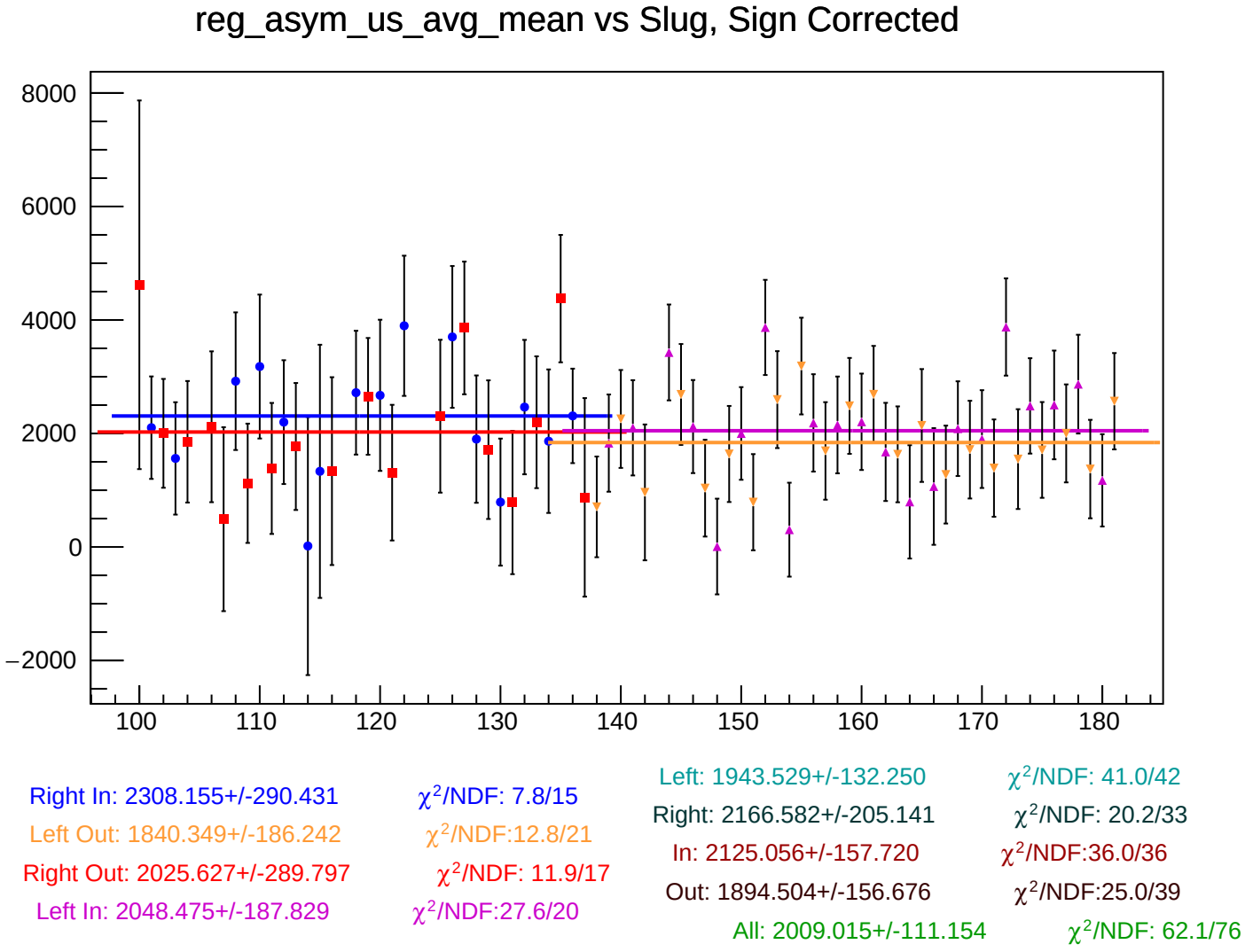
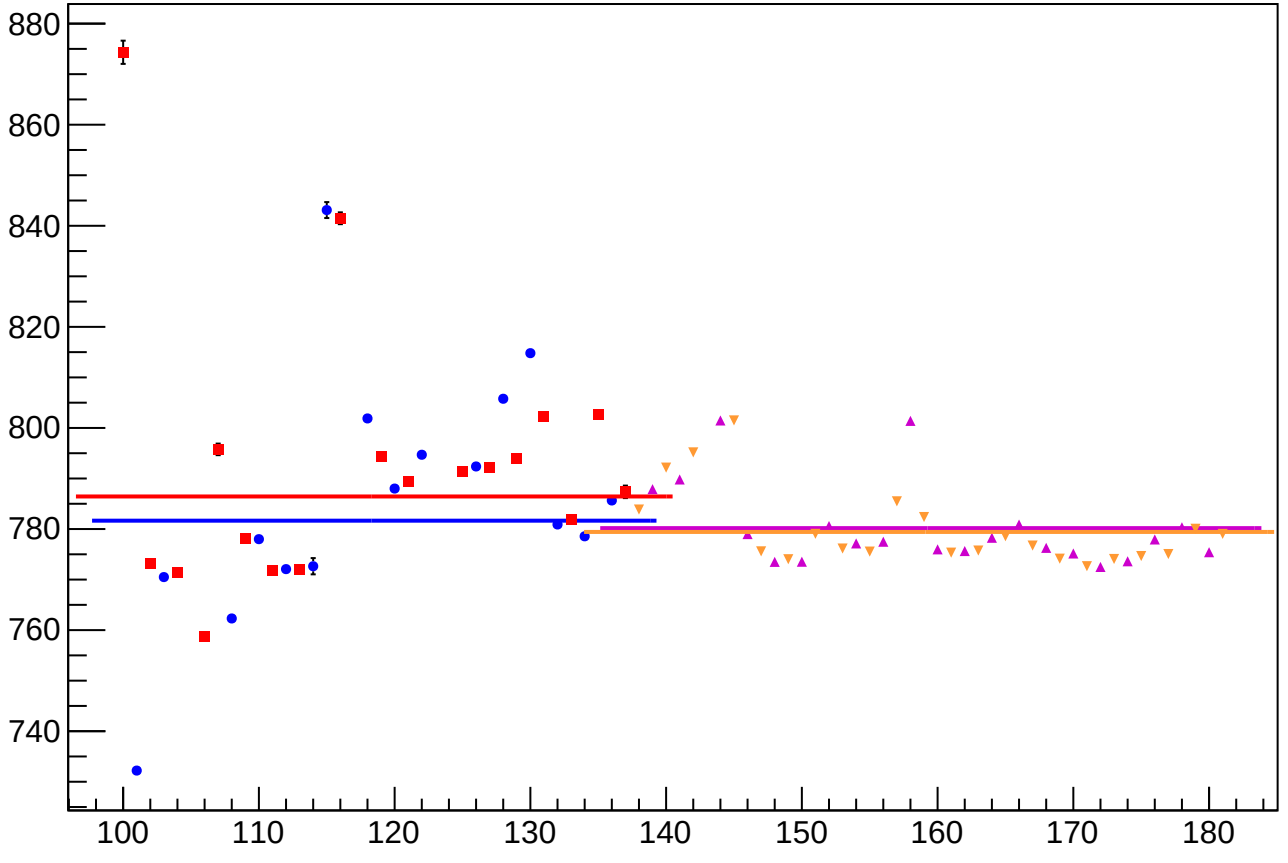

reg_asym_us_avg_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
100
110
120
130
140
150
160
170
180
Right In: 2308.155+/-290.431
χ²/NDF: 7.8/15
Left Out: 1840.349+/-186.242
χ²/NDF:12.8/21
Right Out: 2025.627+/-289.797
χ²/NDF: 11.9/17
Left In: 2048.475+/-187.829
χ²/NDF:27.6/20
Left: 1943.529+/-132.250
χ²/NDF: 41.0/42
Right: 2166.582+/-205.141
χ²/NDF: 20.2/33
In: 2125.056+/-157.720
χ²/NDF:36.0/36
Out: 1894.504+/-156.676
χ²/NDF:25.0/39
All: 2009.015+/-111.154
χ²/NDF: 62.1/76

# reg_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 781.654+/-0.205 $\chi^2$/NDF: 12319.0/15

Left Out: 779.425+/-0.132 $\chi^2$/NDF:2875.7/21

Right Out: 786.443+/-0.205 $\chi^2$/NDF: 7201.6/17

Left In: 780.179+/-0.133 $\chi^2$/NDF:3829.0/20

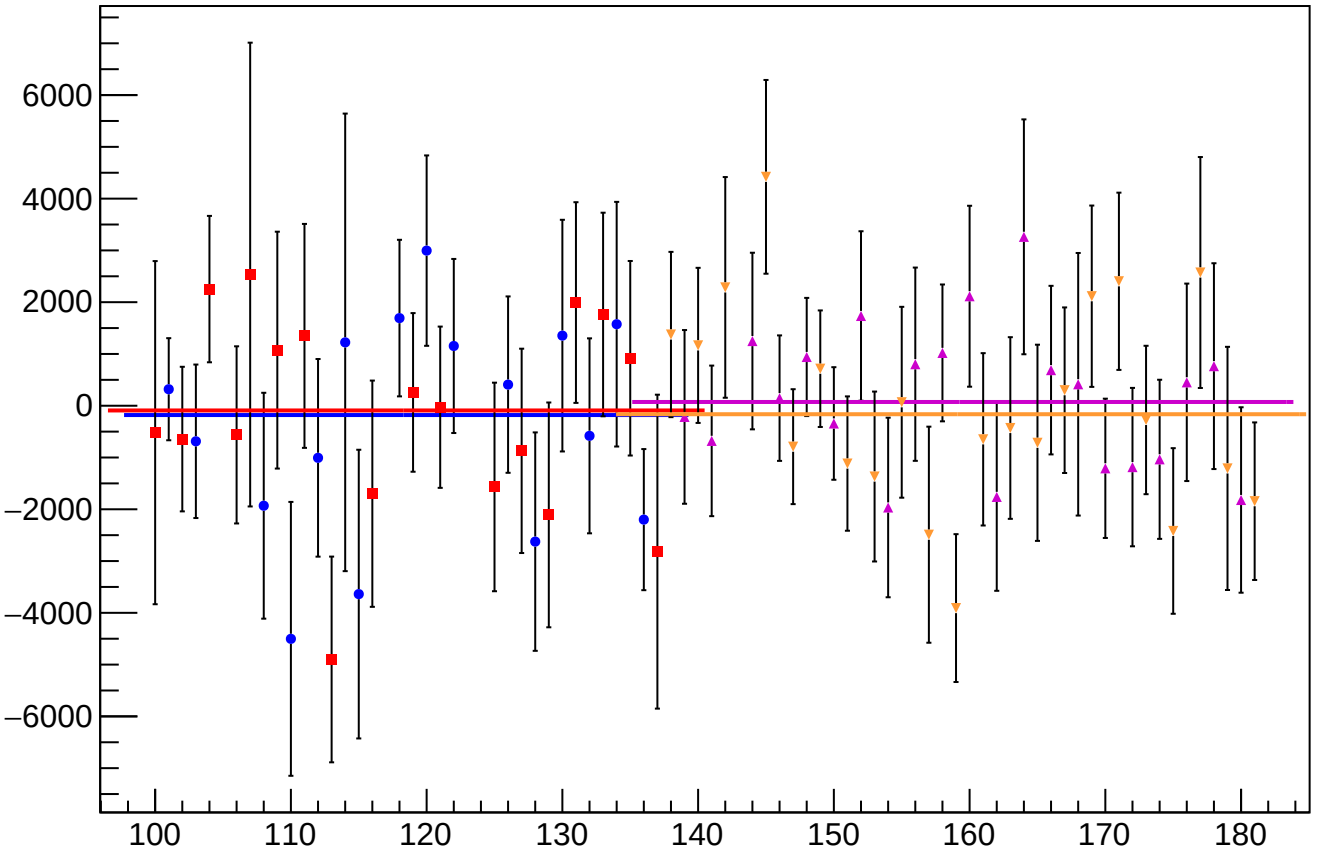
Left: 779.799+/-0.094 $\chi^2$/NDF: 6721.0/42

Right: 784.054+/-0.145 $\chi^2$/NDF: 19793.2/33

In: 780.614+/-0.112 $\chi^2$/NDF:16184.4/36

Out: 781.477+/-0.111 $\chi^2$/NDF:10907.3/39

All: 781.048+/-0.079 $\chi^2$/NDF: 27121.9/76




Right In: -179.929+/-440.772 $\chi^2$/NDF: 15.4/15

Left Out: -164.003+/-340.199 $\chi^2$/NDF:28.3/21

Right Out: -91.288+/-454.811 $\chi^2$/NDF: 15.2/17

Left In: 72.497+/-340.311 $\chi^2$/NDF:12.5/20

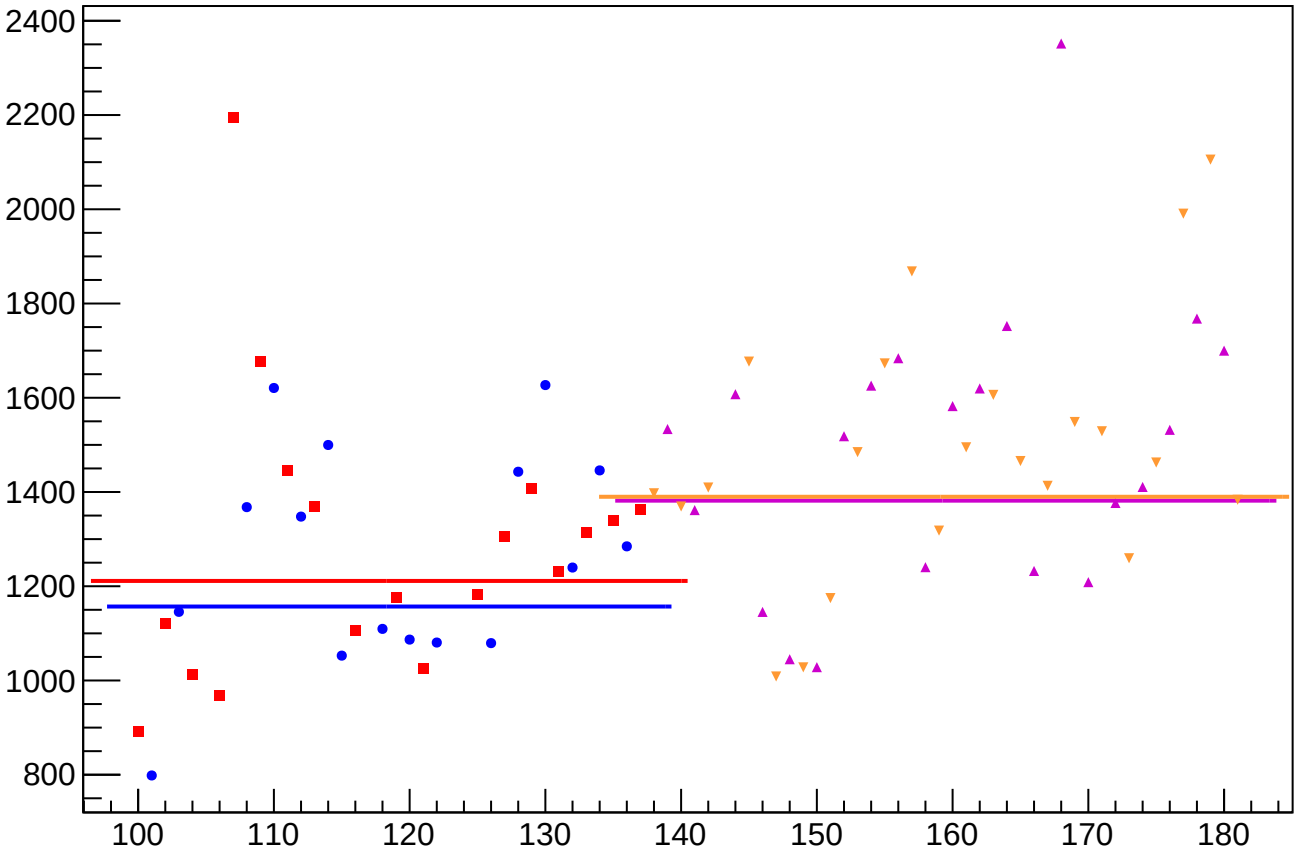
Left: -45.792+/-240.597 $\chi^2$/NDF: 41.1/42

Right: -136.998+/-316.519 $\chi^2$/NDF: 30.6/33

In: -21.778+/-269.367 $\chi^2$/NDF:28.1/36

Out: -137.915+/-272.420 $\chi^2$/NDF:43.5/39

All: -79.192+/-191.542 $\chi^2$/NDF: 71.7/76




Right In: 1156.948+/-0.312 $\chi^2$/NDF: 569119.8/15

Left Out: 1389.895+/-0.241 $\chi^2$/NDF:1132703.3/21

Right Out: 1211.264+/-0.322 $\chi^2$/NDF: 397714.5/17

Left In: 1381.658+/-0.241 $\chi^2$/NDF:1250674.4/20

Left: 1385.778+/-0.170 $\chi^2$/NDF: 2383963.7/42

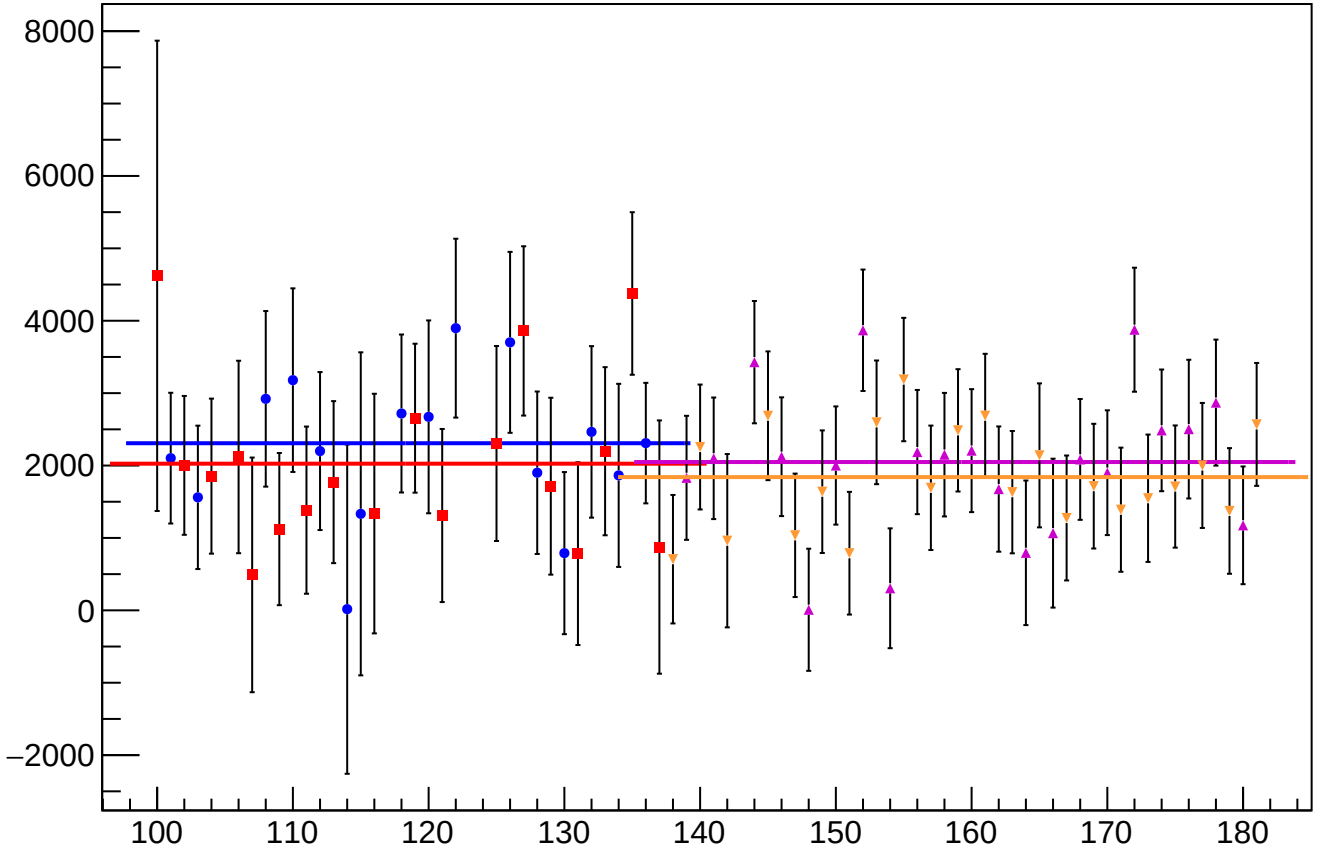
Right: 1183.255+/-0.224 $\chi^2$/NDF: 981543.7/33

In: 1297.734+/-0.190 $\chi^2$/NDF:2145469.5/36

Out: 1325.807+/-0.193 $\chi^2$/NDF:1728249.7/39

All: 1311.613+/-0.135 $\chi^2$/NDF: 3884458.4/76

# cor_asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2308.155+/-290.431 $\chi^2$/NDF: 7.8/15

Left Out: 1840.349+/-186.242 $\chi^2$/NDF:12.8/21

Right Out: 2025.627+/-289.797 $\chi^2$/NDF: 11.9/17

Left In: 2048.475+/-187.829 $\chi^2$/NDF:27.6/20

Left: 1943.529+/-132.250 $\chi^2$/NDF: 41.0/42

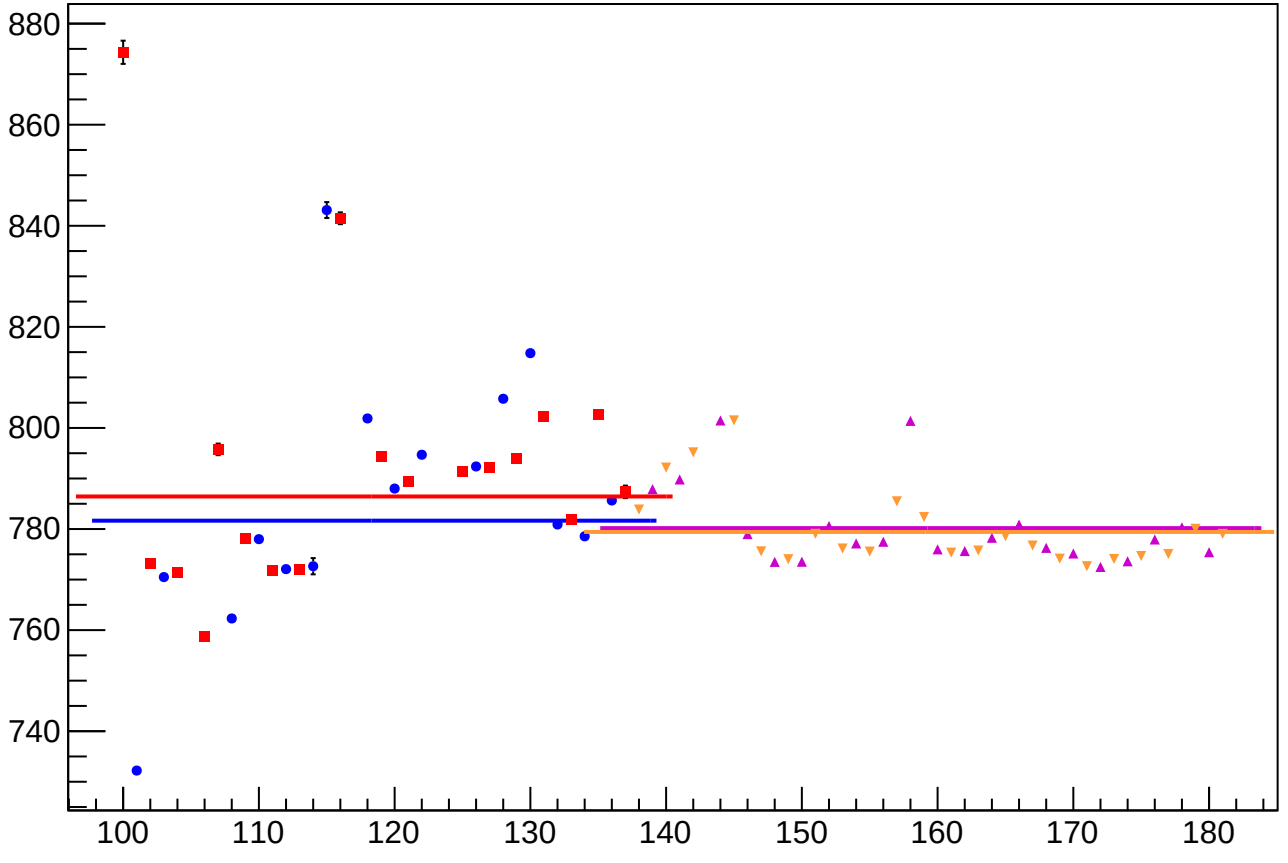
Right: 2166.582+/-205.141 $\chi^2$/NDF: 20.2/33

In: 2125.056+/-157.720 $\chi^2$/NDF:36.0/36

Out: 1894.504+/-156.676 $\chi^2$/NDF:25.0/39

All: 2009.015+/-111.154 $\chi^2$/NDF: 62.1/76

# cor_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 781.654+/-0.205 $\chi^2$/NDF: 12319.0/15

Left Out: 779.425+/-0.132 $\chi^2$/NDF:2875.7/21

Right Out: 786.443+/-0.205 $\chi^2$/NDF: 7201.6/17

Left In: 780.179+/-0.133 $\chi^2$/NDF:3829.0/20

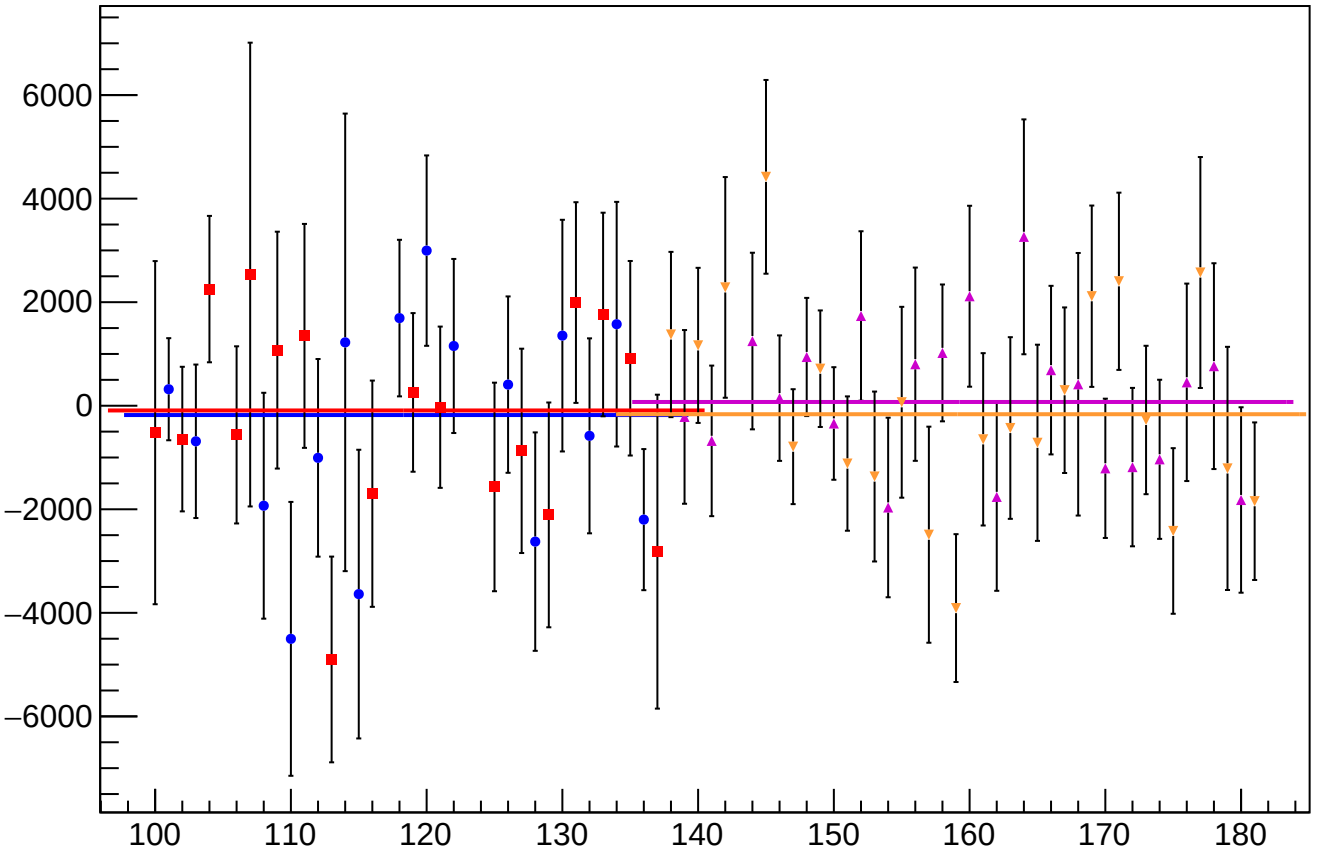
Left: 779.799+/-0.094 $\chi^2$/NDF: 6721.0/42

Right: 784.054+/-0.145 $\chi^2$/NDF: 19793.2/33

In: 780.614+/-0.112 $\chi^2$/NDF:16184.4/36

Out: 781.477+/-0.111 $\chi^2$/NDF:10907.3/39

All: 781.048+/-0.079 $\chi^2$/NDF: 27121.9/76




Right In: -179.929+/-440.772 $\chi^2$/NDF: 15.4/15

Left Out: -164.003+/-340.199 $\chi^2$/NDF:28.3/21

Right Out: -91.288+/-454.811 $\chi^2$/NDF: 15.2/17

Left In: 72.497+/-340.311 $\chi^2$/NDF:12.5/20

Left: -45.792+/-240.597 $\chi^2$/NDF: 41.1/42

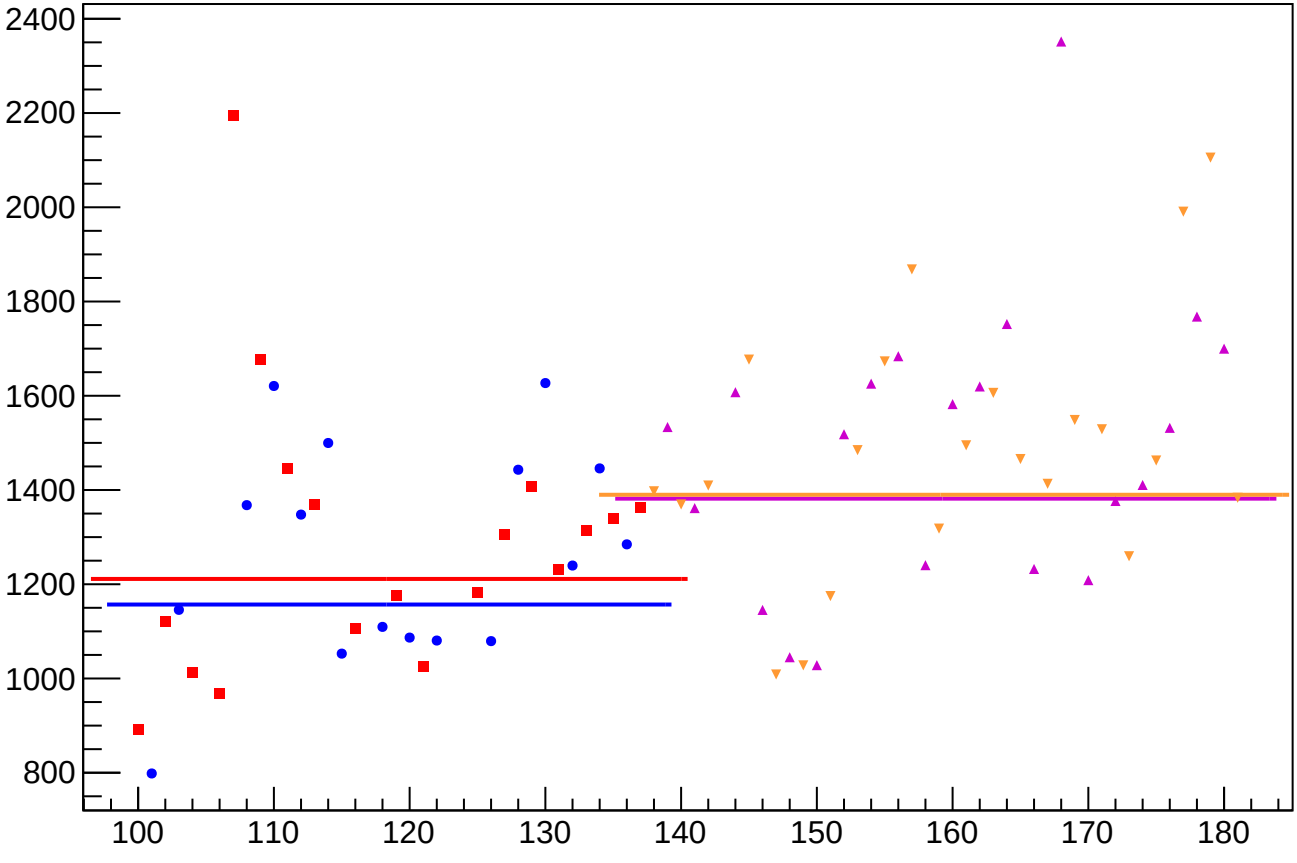
Right: -136.998+/-316.519 $\chi^2$/NDF: 30.6/33

In: -21.778+/-269.367 $\chi^2$/NDF:28.1/36

Out: -137.915+/-272.420 $\chi^2$/NDF:43.5/39

All: -79.192+/-191.542 $\chi^2$/NDF: 71.7/76

# asym_us_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1156.948+/-0.312 $\chi^2$/NDF: 569119.8/15

Left Out: 1389.895+/-0.241 $\chi^2$/NDF:1132703.3/21

Right Out: 1211.264+/-0.322 $\chi^2$/NDF: 397714.5/17

Left In: 1381.658+/-0.241 $\chi^2$/NDF:1250674.4/20

Left: 1385.778+/-0.170 $\chi^2$/NDF: 2383963.7/42

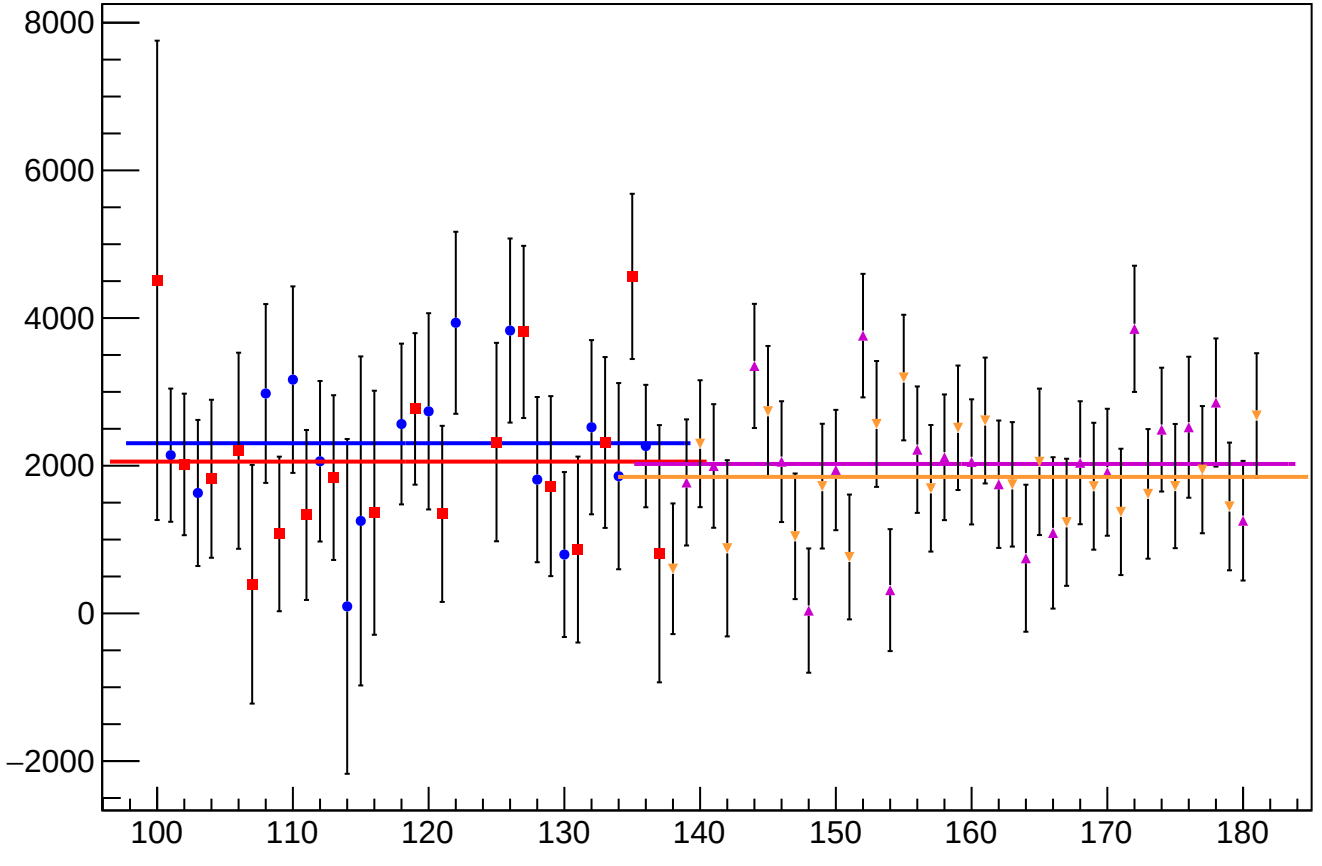
Right: 1183.255+/-0.224 $\chi^2$/NDF: 981543.7/33

In: 1297.734+/-0.190 $\chi^2$/NDF:2145469.5/36

Out: 1325.807+/-0.193 $\chi^2$/NDF:1728249.7/39

All: 1311.613+/-0.135 $\chi^2$/NDF: 3884458.4/76

# overload_cor_asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2304.852+/-289.704 $\chi^2$/NDF: 8.1/15

Left Out: 1848.667+/-185.725 $\chi^2$/NDF:13.3/21

Right Out: 2055.666+/-289.090 $\chi^2$/NDF: 12.9/17

Left In: 2023.869+/-187.326 $\chi^2$/NDF:26.4/20

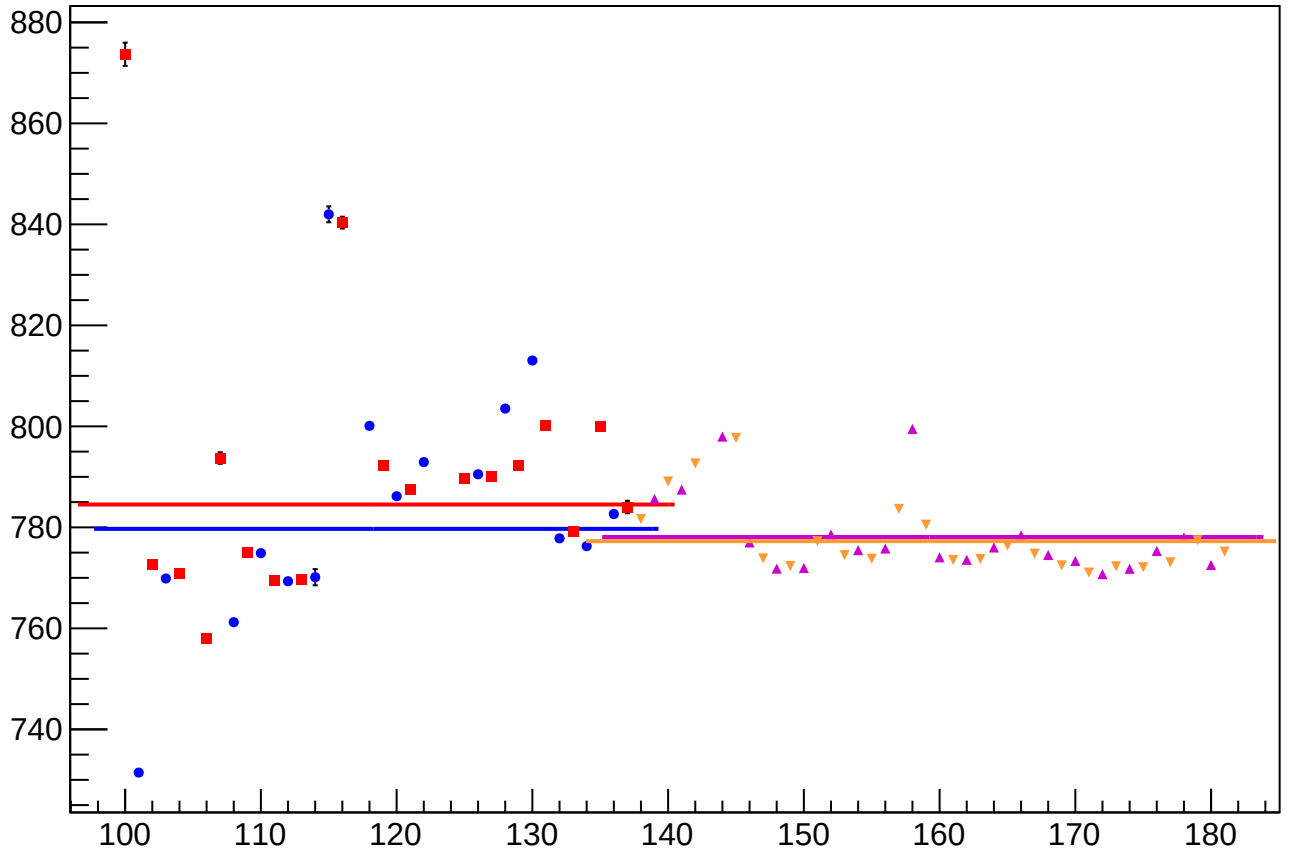
Left: 1935.516+/-131.890 $\chi^2$/NDF: 40.2/42

Right: 2179.995+/-204.634 $\chi^2$/NDF: 21.3/33

In: 2106.712+/-157.305 $\chi^2$/NDF:35.1/36

Out: 1909.143+/-156.257 $\chi^2$/NDF:26.6/39

All: 2007.267+/-110.859 $\chi^2$/NDF: 62.5/76




Right In: 779.702+/-0.205 $\chi^2$/NDF: 12060.2/15

Left Out: 777.269+/-0.131 $\chi^2$/NDF:2582.1/21

Right Out: 784.524+/-0.204 $\chi^2$/NDF: 7160.0/17

Left In: 778.091+/-0.132 $\chi^2$/NDF:3630.5/20

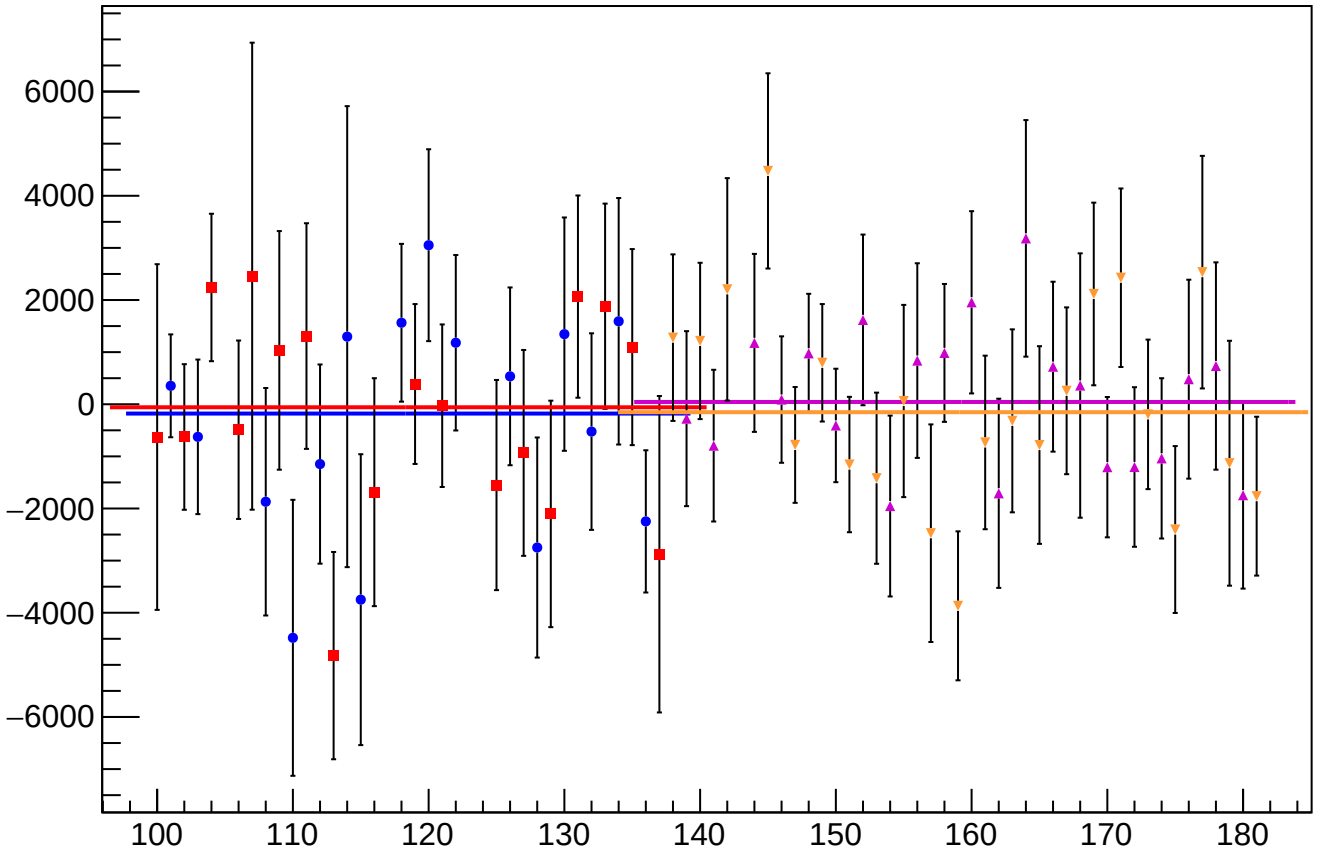
Left: 777.677+/-0.093 $\chi^2$/NDF: 6232.0/42

Right: 782.118+/-0.145 $\chi^2$/NDF: 19498.0/33

In: 778.566+/-0.111 $\chi^2$/NDF:15734.3/36

Out: 779.389+/-0.110 $\chi^2$/NDF:10633.9/39

All: 778.980+/-0.078 $\chi^2$/NDF: 26395.7/76




Right In: -178.457+/-441.218 $\chi^2$/NDF: 15.7/15

Left Out: -152.247+/-340.518 $\chi^2$/NDF:28.2/21

Right Out: -58.040+/-455.216 $\chi^2$/NDF: 15.3/17

Left In: 43.767+/-340.615 $\chi^2$/NDF:12.0/20

Left: -54.268+/-240.817 $\chi^2$/NDF: 40.3/42

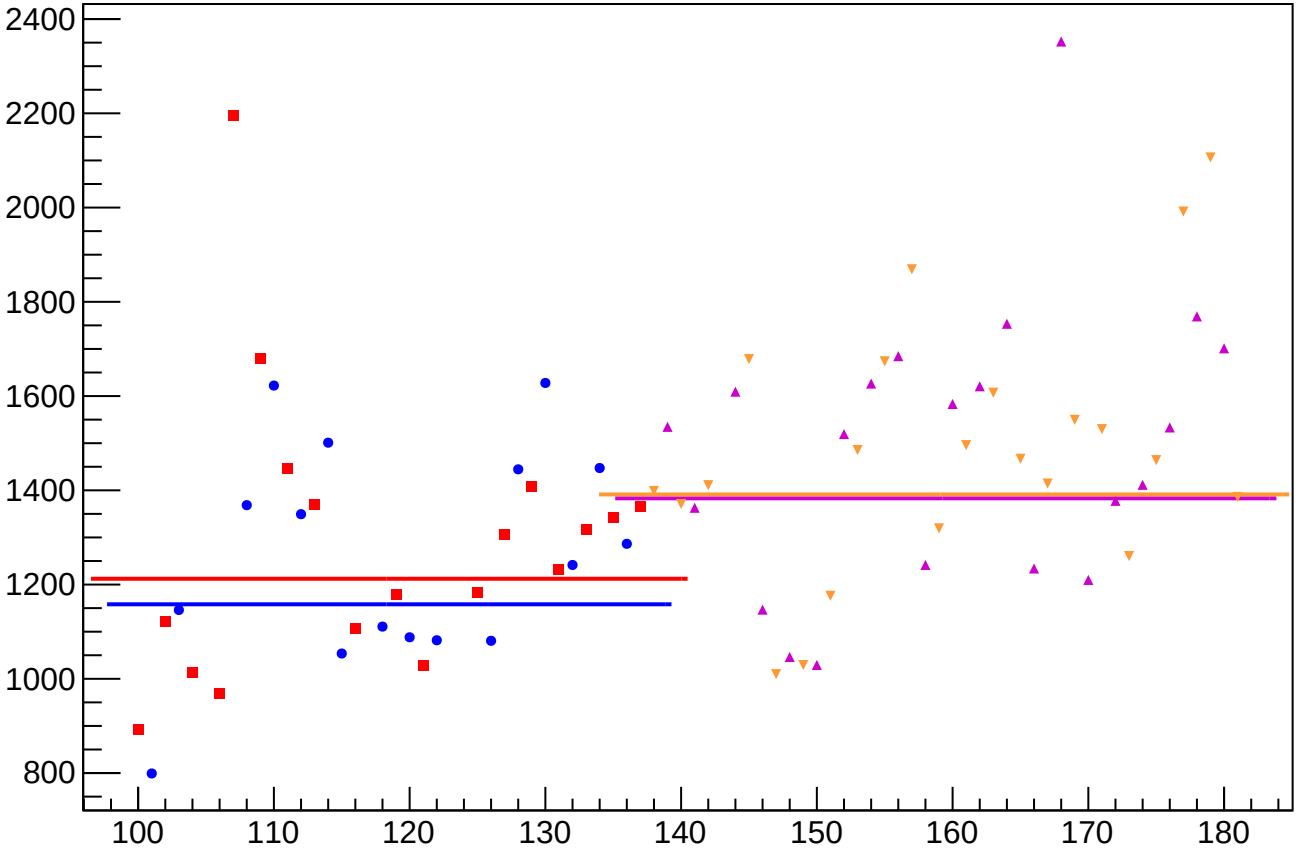
Right: -120.128+/-316.821 $\chi^2$/NDF: 31.0/33

In: -39.215+/-269.620 $\chi^2$/NDF:27.9/36

Out: -118.447+/-272.671 $\chi^2$/NDF:43.5/39

All: -78.385+/-191.720 $\chi^2$/NDF: 71.4/76

asym_us_avg_overload_cor_correction_rms vs Slug, Sign Corrected




Right In: 1158.134+/-0.312 $\chi^2$/NDF: 569144.8/15

Left Out: 1391.286+/-0.241 $\chi^2$/NDF:1129838.2/21

Right Out: 1212.347+/-0.322 $\chi^2$/NDF: 397938.1/17

Left In: 1382.960+/-0.241 $\chi^2$/NDF:1247939.8/20

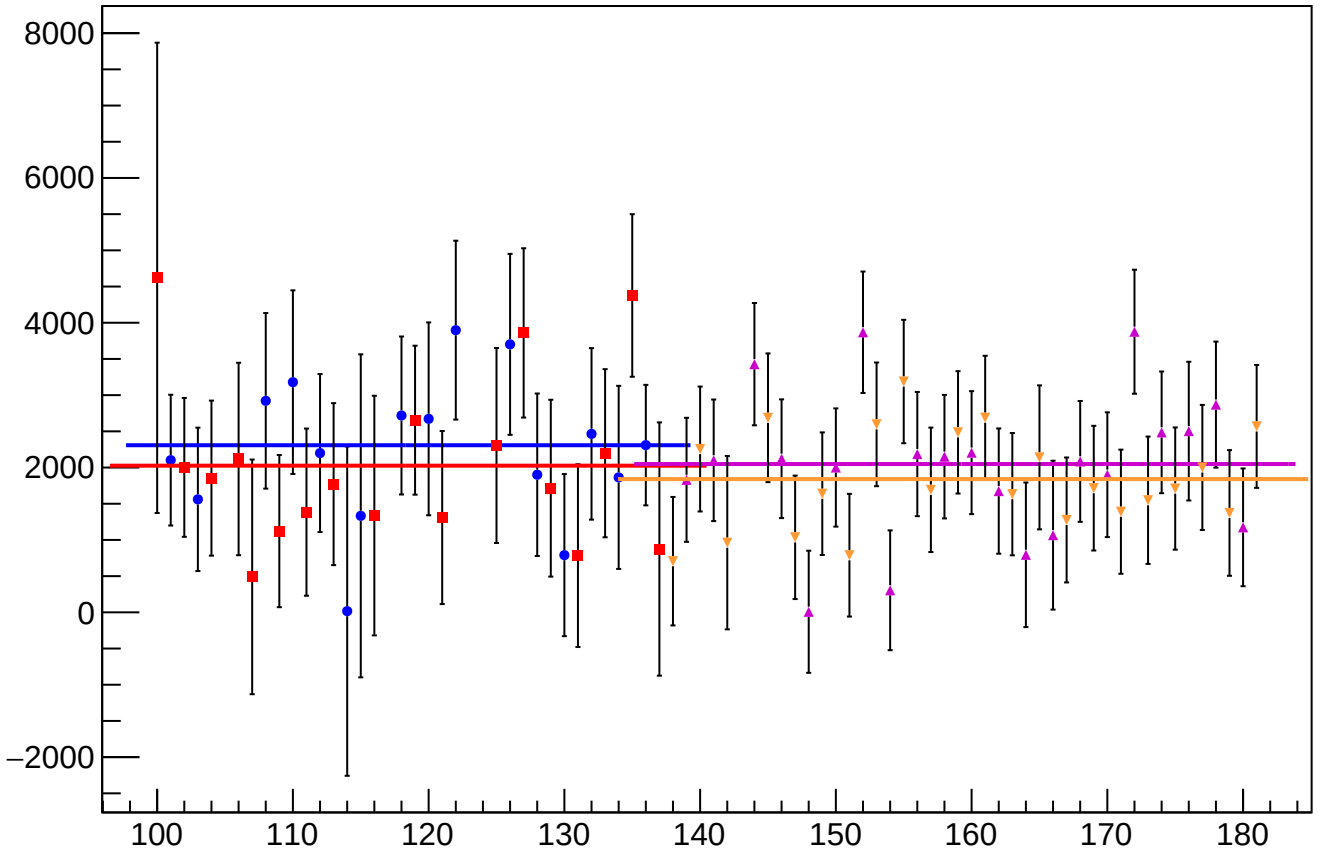
Left: 1387.124+/-0.170 $\chi^2$/NDF: 2378375.7/42

Right: 1184.394+/-0.224 $\chi^2$/NDF: 981708.9/33

In: 1299.005+/-0.191 $\chi^2$/NDF:2142468.5/36

Out: 1327.084+/-0.193 $\chi^2$/NDF:1725930.8/39

All: 1312.887+/-0.136 $\chi^2$/NDF: 3879122.4/76




Right In: 2308.155+/-290.431 $\chi^2$/NDF: 7.8/15

Left Out: 1840.349+/-186.242 $\chi^2$/NDF:12.8/21

Right Out: 2025.627+/-289.797 $\chi^2$/NDF: 11.9/17

Left In: 2048.475+/-187.829 $\chi^2$/NDF:27.6/20

Left: 1943.529+/-132.250 $\chi^2$/NDF: 41.0/42

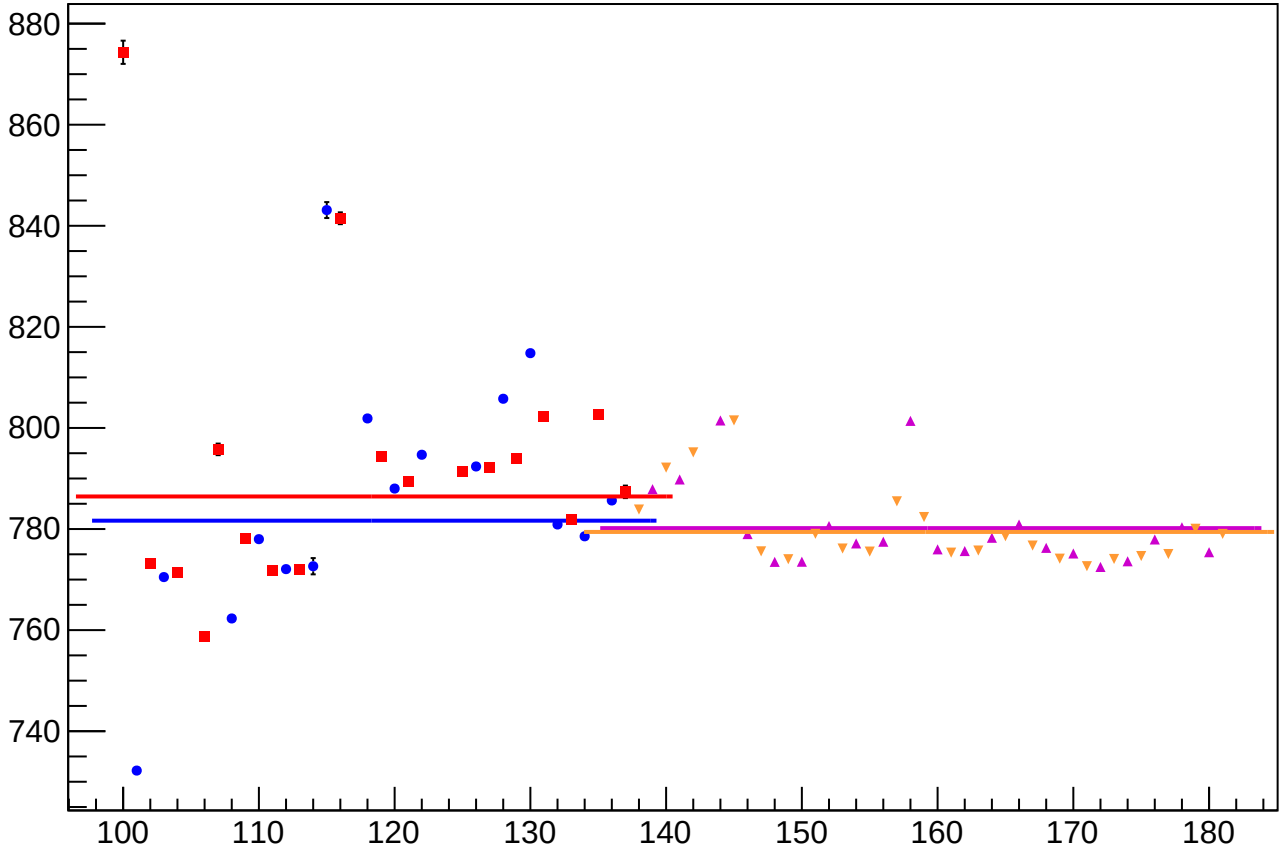
Right: 2166.582+/-205.141 $\chi^2$/NDF: 20.2/33

In: 2125.056+/-157.720 $\chi^2$/NDF:36.0/36

Out: 1894.504+/-156.676 $\chi^2$/NDF:25.0/39

All: 2009.015+/-111.154 $\chi^2$/NDF: 62.1/76

# eigen_cor_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 781.654+/-0.205 $\chi^2$/NDF: 12319.0/15

Left Out: 779.425+/-0.132 $\chi^2$/NDF:2875.7/21

Right Out: 786.443+/-0.205 $\chi^2$/NDF: 7201.6/17

Left In: 780.179+/-0.133 $\chi^2$/NDF:3829.0/20

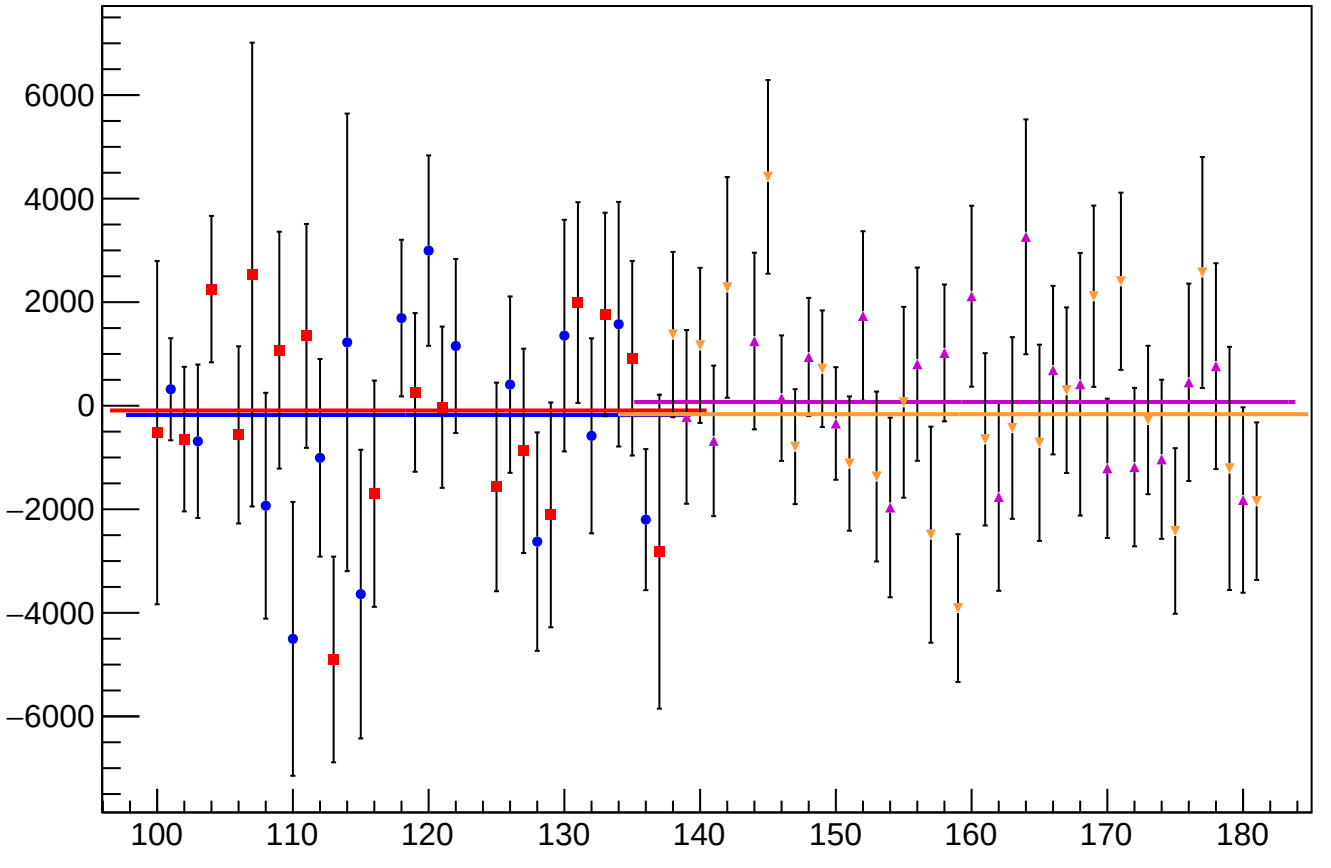
Left: 779.799+/-0.094 $\chi^2$/NDF: 6721.0/42

Right: 784.054+/-0.145 $\chi^2$/NDF: 19793.2/33

In: 780.614+/-0.112 $\chi^2$/NDF:16184.4/36

Out: 781.477+/-0.111 $\chi^2$/NDF:10907.3/39

All: 781.048+/-0.079 $\chi^2$/NDF: 27121.9/76




Right In: -179.929+/-440.772 $\chi^2$/NDF: 15.4/15

Left Out: -164.003+/-340.199 $\chi^2$/NDF:28.3/21

Right Out: -91.288+/-454.811 $\chi^2$/NDF: 15.2/17

Left In: 72.497+/-340.311 $\chi^2$/NDF:12.5/20

Left: -45.792+/-240.597 $\chi^2$/NDF: 41.1/42

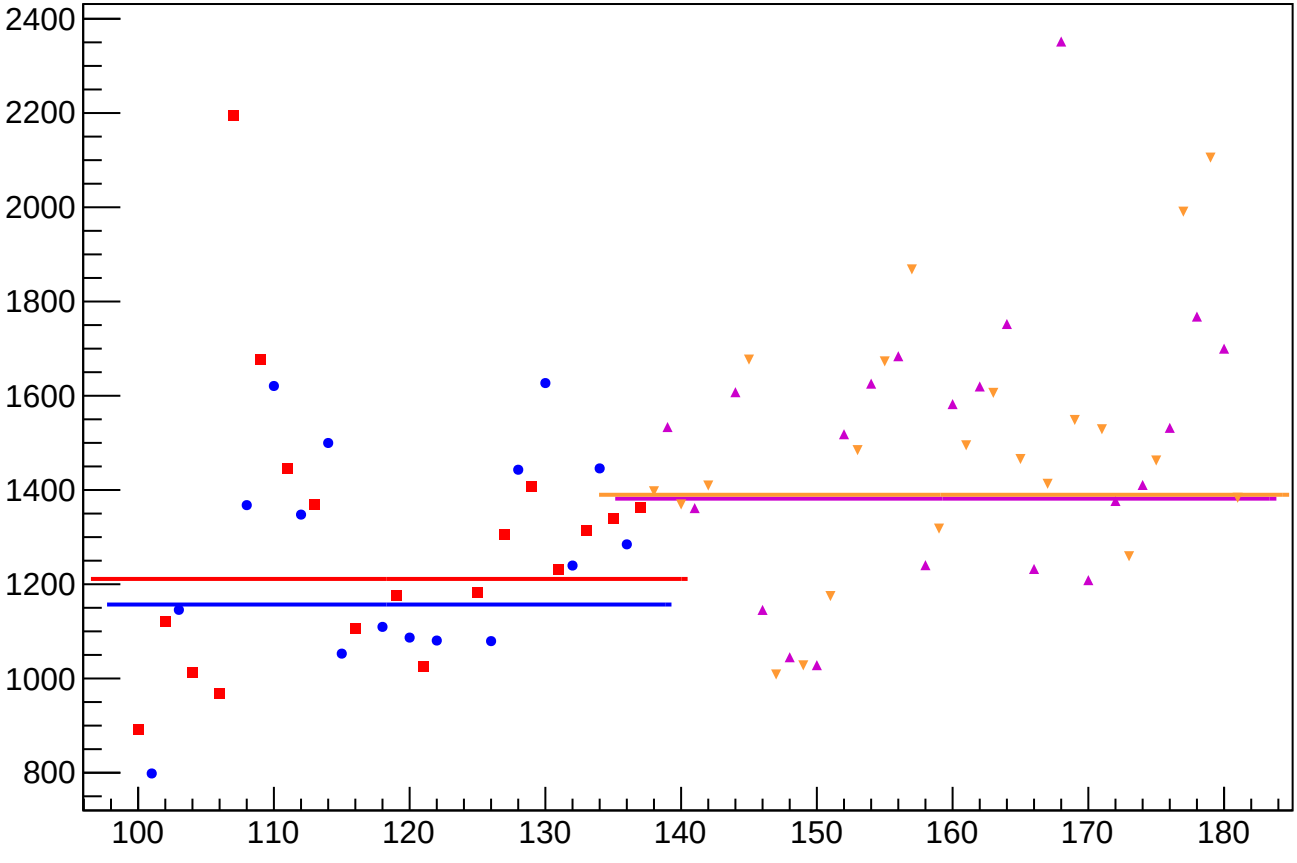
Right: -136.998+/-316.519 $\chi^2$/NDF: 30.6/33

In: -21.778+/-269.367 $\chi^2$/NDF:28.1/36

Out: -137.915+/-272.420 $\chi^2$/NDF:43.5/39

All: -79.192+/-191.542 $\chi^2$/NDF: 71.7/76

asym_us_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1156.948+/-0.312 $\chi^2$/NDF: 569119.8/15

Left Out: 1389.895+/-0.241 $\chi^2$/NDF:1132703.3/21

Right Out: 1211.264+/-0.322 $\chi^2$/NDF: 397714.5/17

Left In: 1381.658+/-0.241 $\chi^2$/NDF:1250674.4/20

Left: 1385.778+/-0.170 $\chi^2$/NDF: 2383963.7/42

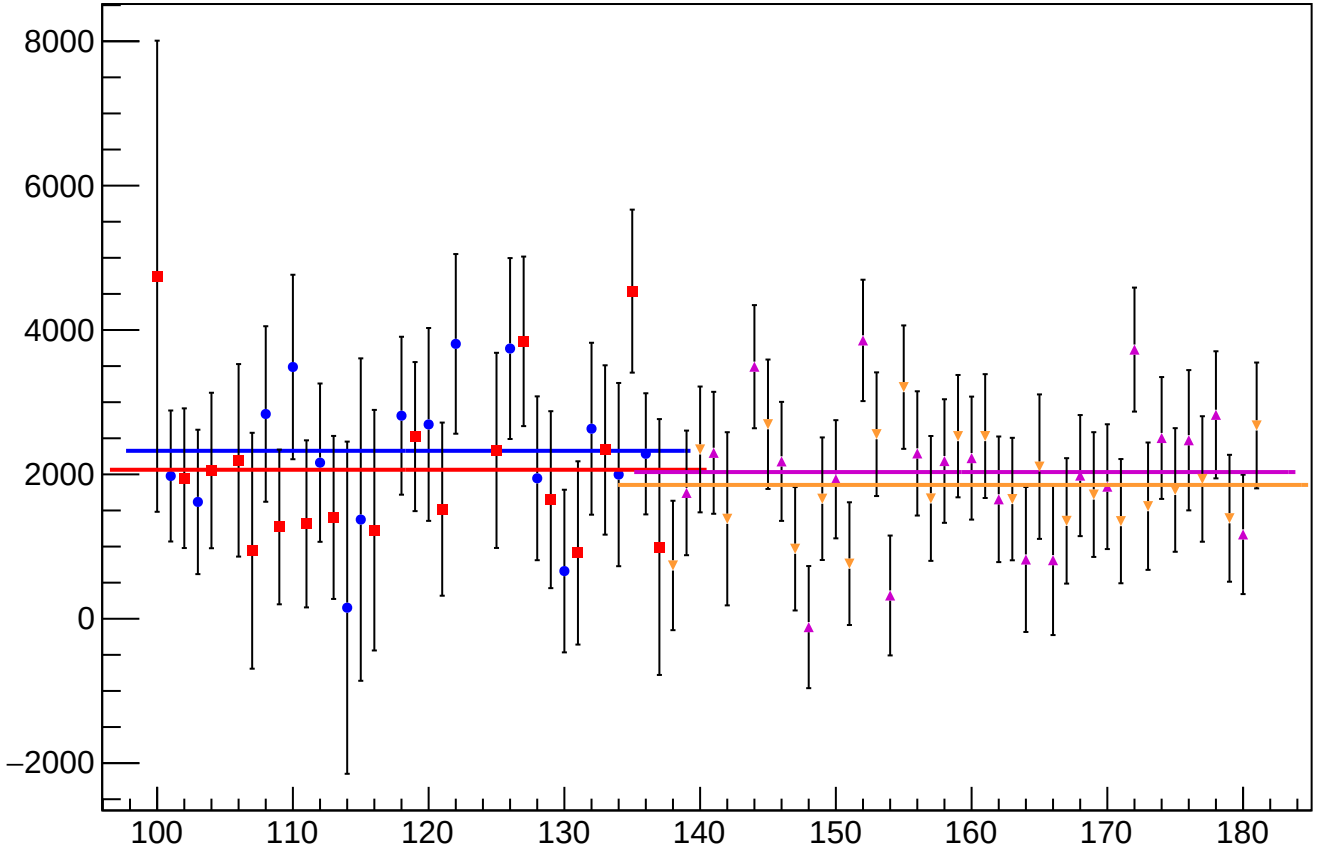
Right: 1183.255+/-0.224 $\chi^2$/NDF: 981543.7/33

In: 1297.734+/-0.190 $\chi^2$/NDF:2145469.5/36

Out: 1325.807+/-0.193 $\chi^2$/NDF:1728249.7/39

All: 1311.613+/-0.135 $\chi^2$/NDF: 3884458.4/76

# dit_asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2326.430+/-292.176 $\chi^2$/NDF: 8.1/15

Left Out: 1853.957+/-187.493 $\chi^2$/NDF:12.3/21

Right Out: 2063.976+/-291.790 $\chi^2$/NDF: 11.6/17

Left In: 2032.053+/-188.950 $\chi^2$/NDF:28.2/20

Left: 1942.315+/-133.089 $\chi^2$/NDF: 40.9/42

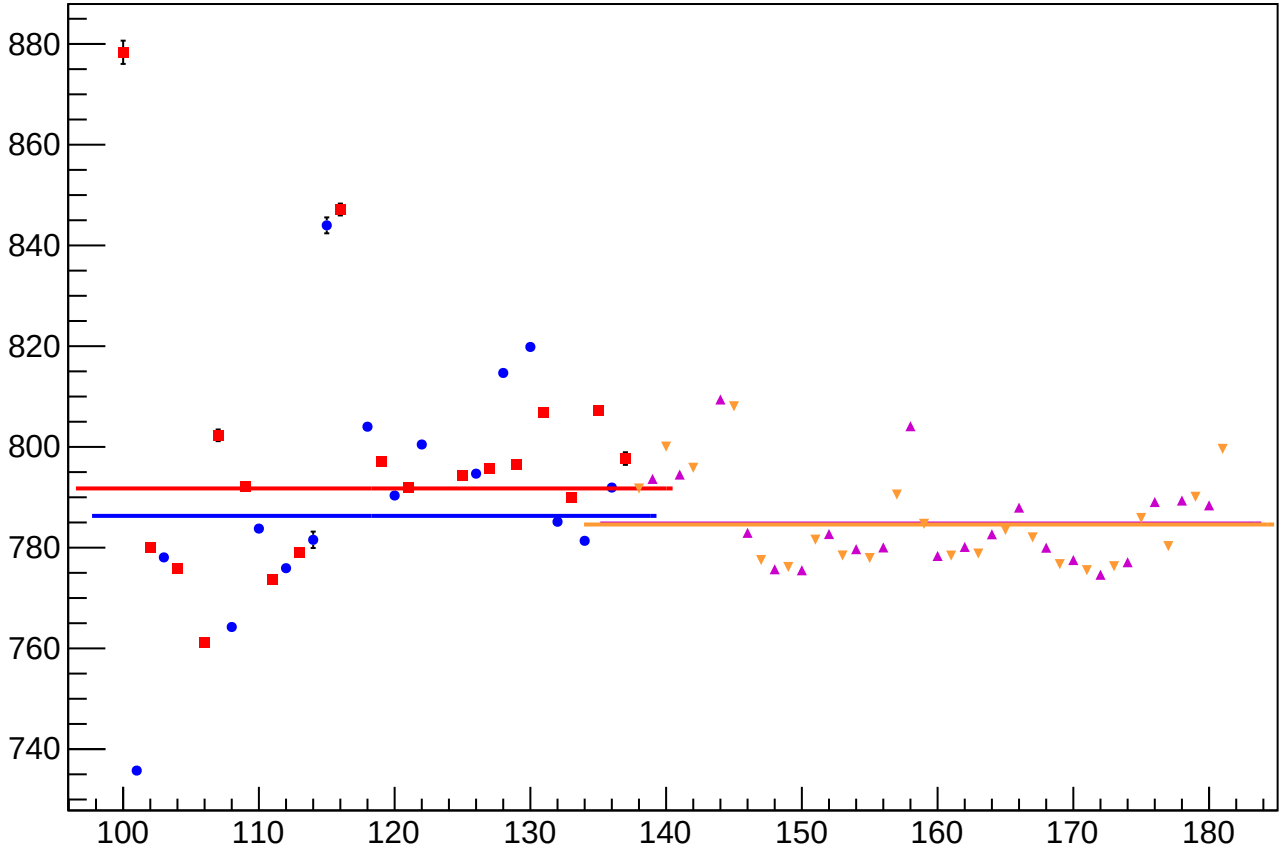
Right: 2195.030+/-206.463 $\chi^2$/NDF: 20.2/33

In: 2118.862+/-158.663 $\chi^2$/NDF:37.0/36

Out: 1915.330+/-157.736 $\chi^2$/NDF:24.3/39

All: 2016.500+/-111.862 $\chi^2$/NDF: 62.1/76

# dit_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 786.309+/-0.207 $\chi^2$/NDF: 12571.1/15

Left Out: 784.599+/-0.133 $\chi^2$/NDF:4487.0/21

Right Out: 791.756+/-0.206 $\chi^2$/NDF: 7015.1/17

Left In: 784.797+/-0.134 $\chi^2$/NDF:4788.2/20

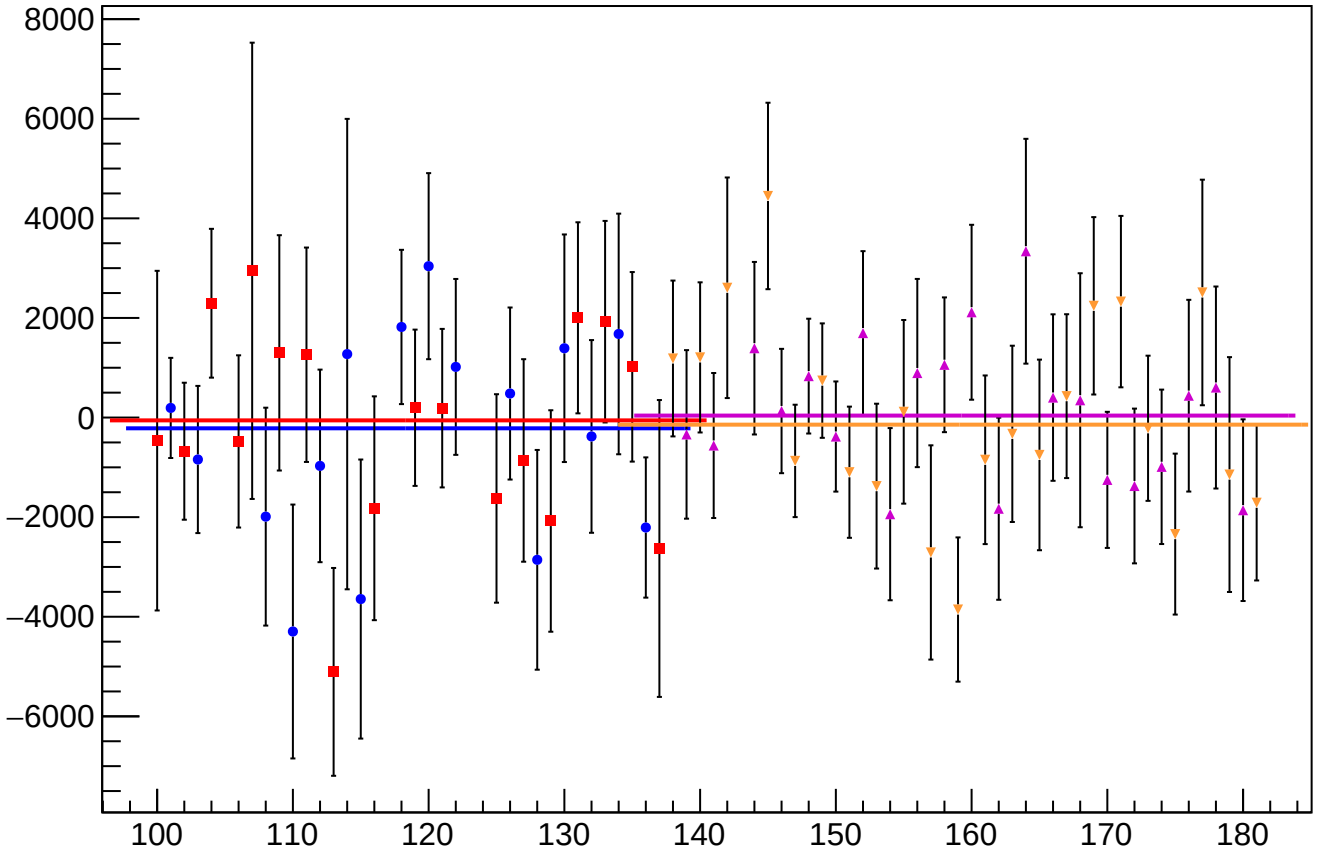
Left: 784.698+/-0.094 $\chi^2$/NDF: 9276.3/42

Right: 789.036+/-0.146 $\chi^2$/NDF: 19934.2/33

In: 785.243+/-0.112 $\chi^2$/NDF:17397.0/36

Out: 786.691+/-0.112 $\chi^2$/NDF:12353.7/39

All: 785.971+/-0.079 $\chi^2$/NDF: 29834.4/76




Right In: -216.184+/-449.537 $\chi^2$/NDF: 15.3/15

Left Out: -142.731+/-344.794 $\chi^2$/NDF:27.9/21

Right Out: -56.784+/-463.978 $\chi^2$/NDF: 15.1/17

Left In: 39.371+/-344.885 $\chi^2$/NDF:12.6/20

Left: -51.704+/-243.838 $\chi^2$/NDF: 40.6/42

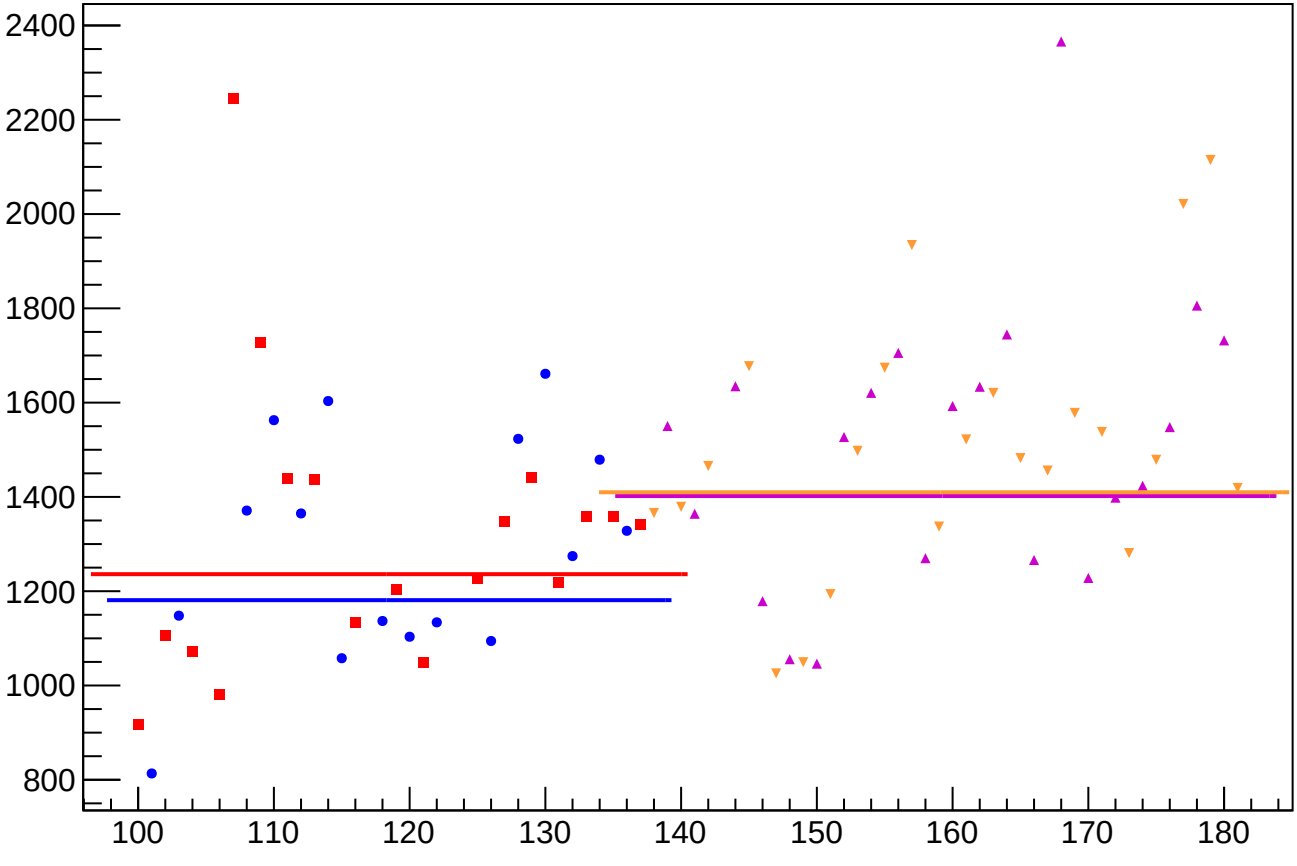
Right: -139.003+/-322.855 $\chi^2$/NDF: 30.5/33

In: -55.316+/-273.632 $\chi^2$/NDF:28.0/36

Out: -112.154+/-276.746 $\chi^2$/NDF:43.0/39

All: -83.413+/-194.579 $\chi^2$/NDF: 71.1/76

# asym_us_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1180.998+/-0.318 $\chi^2$/NDF: 571107.8/15

Left Out: 1409.878+/-0.244 $\chi^2$/NDF:1112117.5/21

Right Out: 1236.134+/-0.328 $\chi^2$/NDF: 397242.2/17

Left In: 1401.857+/-0.244 $\chi^2$/NDF:1207958.6/20

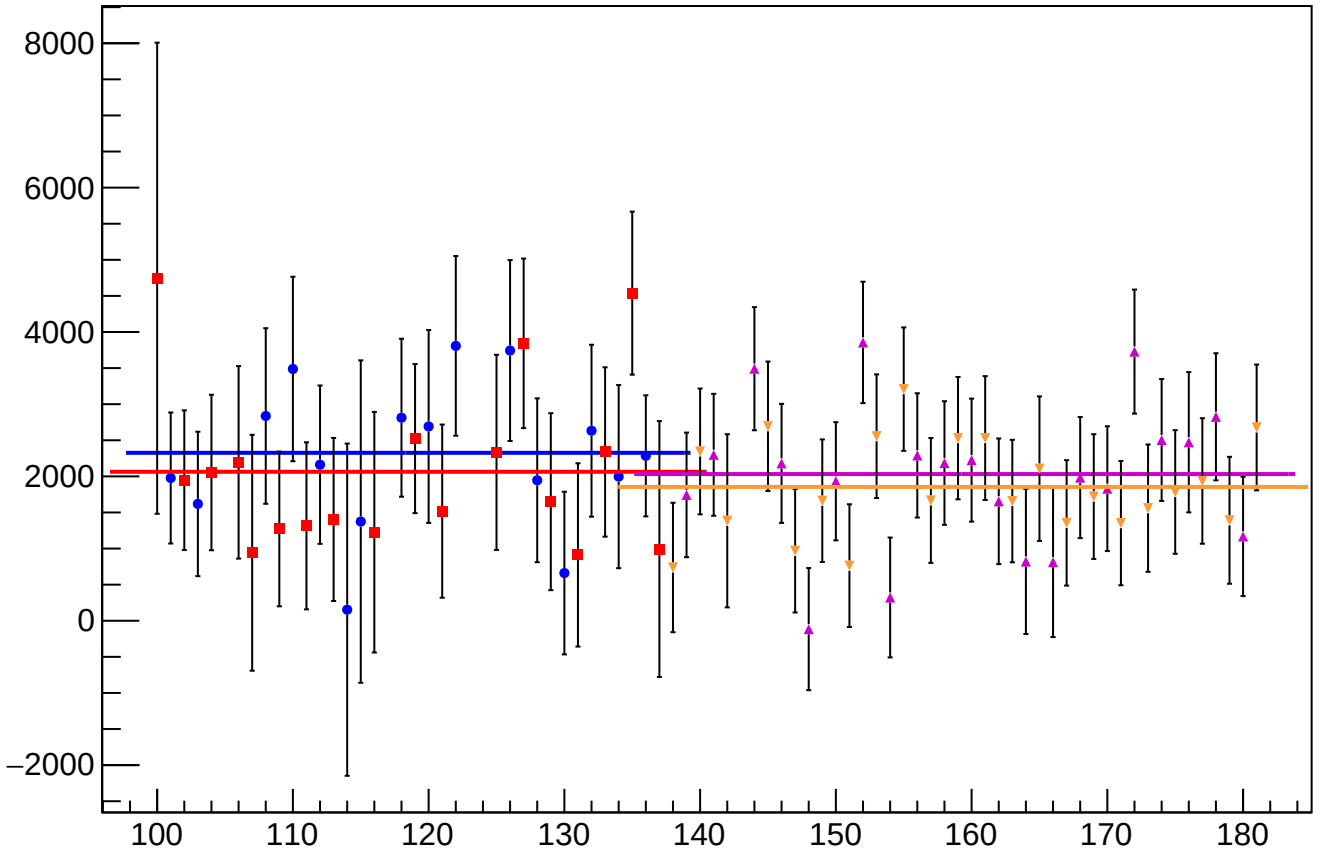
Left: 1405.869+/-0.172 $\chi^2$/NDF: 2320617.1/42

Right: 1207.695+/-0.228 $\chi^2$/NDF: 982917.9/33

In: 1320.026+/-0.193 $\chi^2$/NDF:2082957.2/36

Out: 1348.065+/-0.196 $\chi^2$/NDF:1690033.2/39

All: 1333.887+/-0.138 $\chi^2$/NDF: 3783372.1/76




Right In: 2326.429+/-292.176 $\chi^2$/NDF: 8.1/15

Left Out: 1853.954+/-187.493 $\chi^2$/NDF:12.3/21

Right Out: 2063.975+/-291.790 $\chi^2$/NDF: 11.6/17

Left In: 2032.054+/-188.950 $\chi^2$/NDF:28.2/20

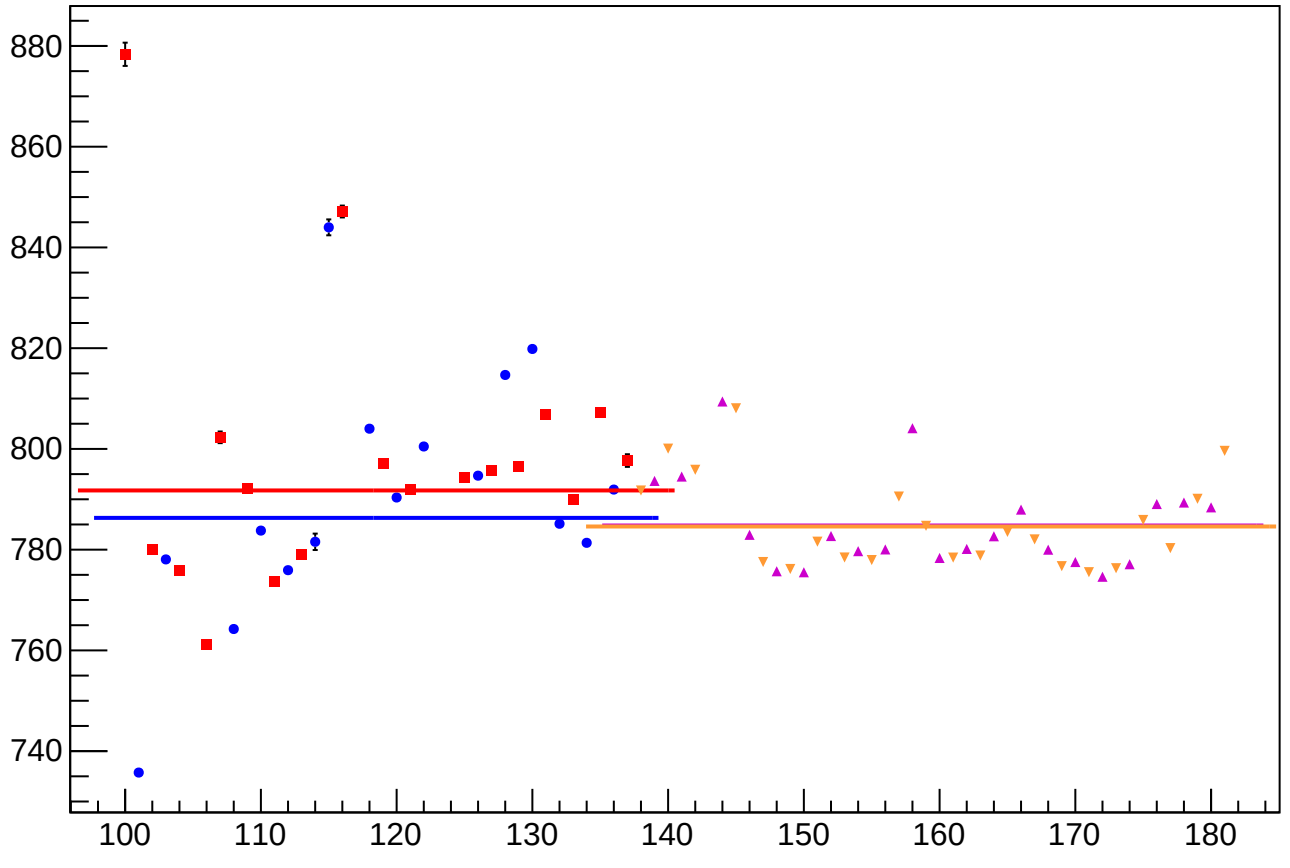
Left: 1942.315+/-133.089 $\chi^2$/NDF: 40.9/42

Right: 2195.029+/-206.463 $\chi^2$/NDF: 20.2/33

In: 2118.862+/-158.663 $\chi^2$/NDF:37.0/36

Out: 1915.328+/-157.736 $\chi^2$/NDF:24.3/39

All: 2016.499+/-111.862 $\chi^2$/NDF: 62.1/76




Right In: 786.309+/-0.207 $\chi^2$/NDF: 12571.0/15

Left Out: 784.599+/-0.133 $\chi^2$/NDF:4486.9/21

Right Out: 791.756+/-0.206 $\chi^2$/NDF: 7015.1/17

Left In: 784.798+/-0.134 $\chi^2$/NDF:4788.2/20

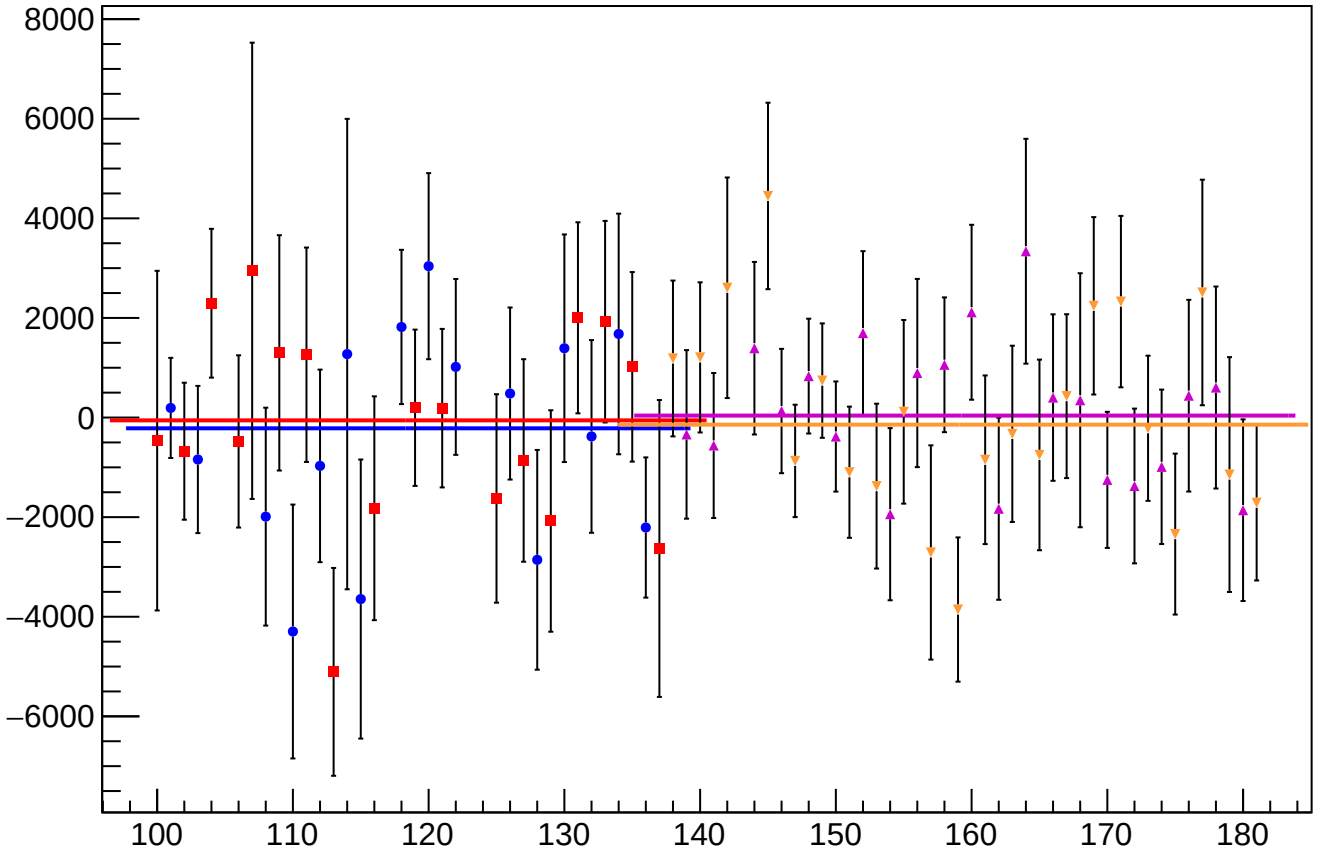
Left: 784.698+/-0.094 $\chi^2$/NDF: 9276.2/42

Right: 789.036+/-0.146 $\chi^2$/NDF: 19934.1/33

In: 785.243+/-0.112 $\chi^2$/NDF:17397.0/36

Out: 786.691+/-0.112 $\chi^2$/NDF:12353.6/39

All: 785.971+/-0.079 $\chi^2$/NDF: 29834.3/76




Right In: -216.183+/-449.536 $\chi^2$/NDF: 15.3/15

Left Out: -142.735+/-344.795 $\chi^2$/NDF:27.9/21

Right Out: -56.784+/-463.977 $\chi^2$/NDF: 15.1/17

Left In: 39.372+/-344.885 $\chi^2$/NDF:12.6/20

Left: -51.706+/-243.839 $\chi^2$/NDF: 40.6/42

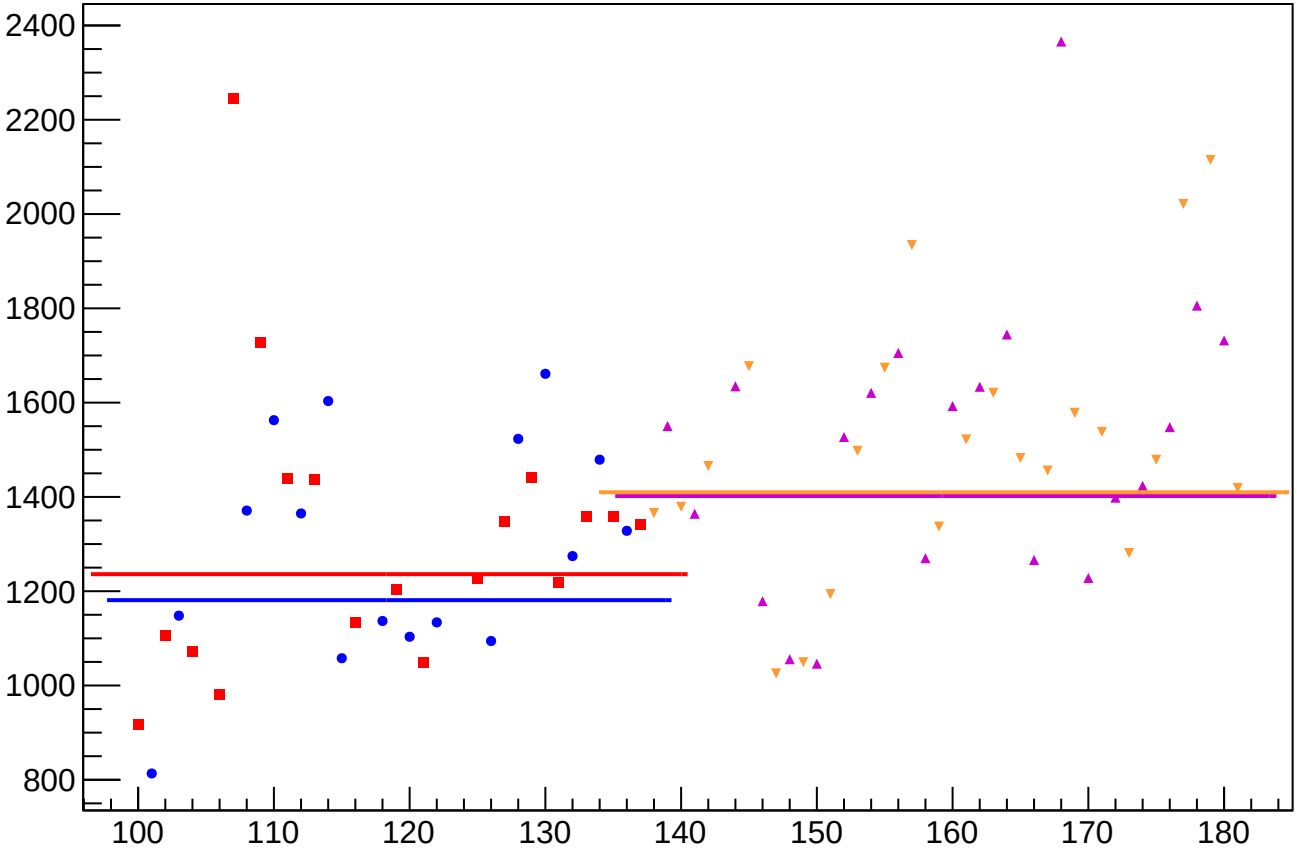
Right: -139.003+/-322.855 $\chi^2$/NDF: 30.5/33

In: -55.315+/-273.632 $\chi^2$/NDF:28.0/36

Out: -112.156+/-276.746 $\chi^2$/NDF:43.0/39

All: -83.414+/-194.579 $\chi^2$/NDF: 71.1/76

asym_us_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1180.995+/-0.318 $\chi^2$/NDF: 571105.7/15

Left Out: 1409.880+/-0.244 $\chi^2$/NDF:1112118.6/21

Right Out: 1236.131+/-0.328 $\chi^2$/NDF: 397240.7/17

Left In: 1401.860+/-0.244 $\chi^2$/NDF:1207959.1/20

Left: 1405.871+/-0.172 $\chi^2$/NDF: 2320618.7/42

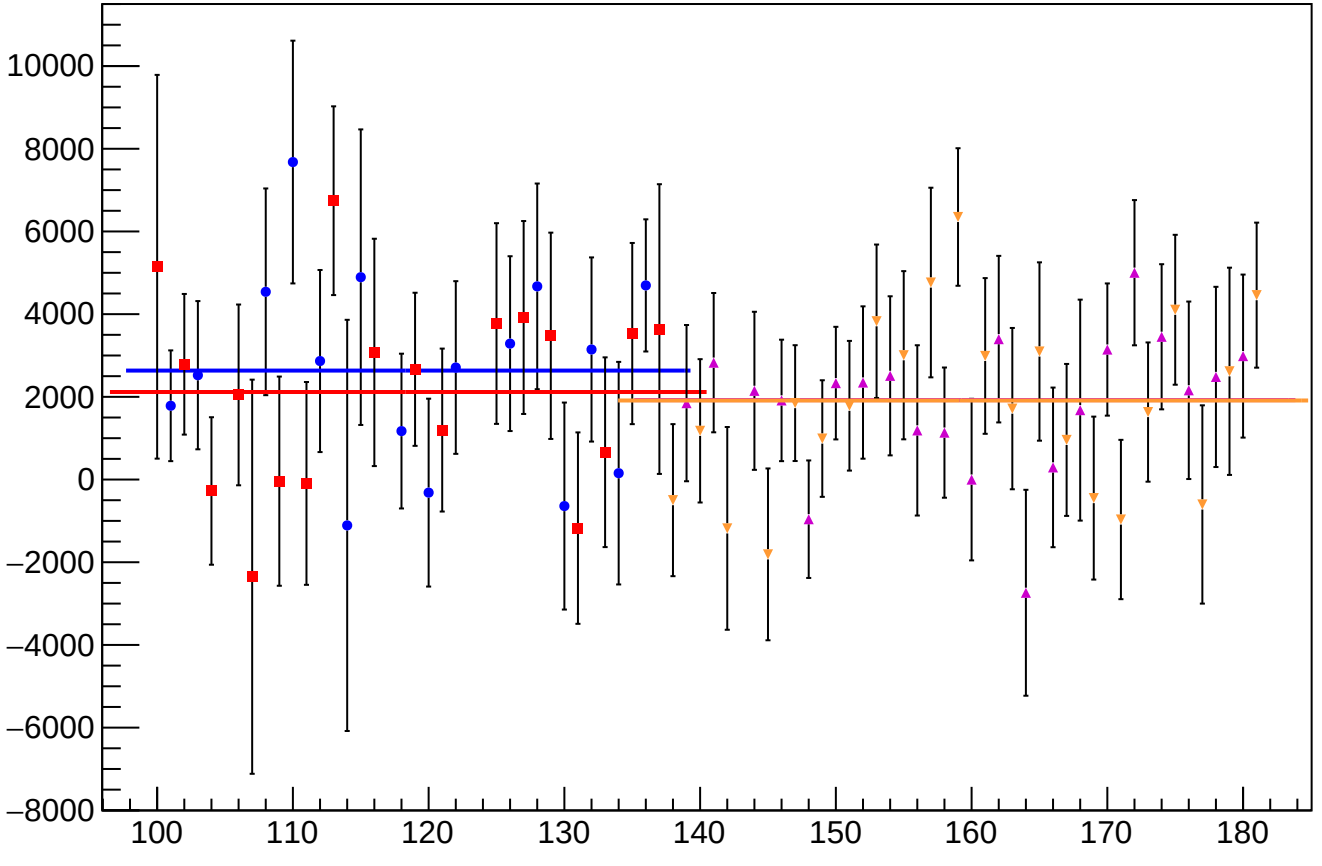
Right: 1207.692+/-0.228 $\chi^2$/NDF: 982914.1/33

In: 1320.026+/-0.193 $\chi^2$/NDF:2082971.5/36

Out: 1348.066+/-0.196 $\chi^2$/NDF:1690045.7/39

All: 1333.887+/-0.138 $\chi^2$/NDF: 3783398.9/76

# asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2635.397+/-538.034 $\chi^2$/NDF: 12.3/15

Left Out: 1911.947+/-394.427 $\chi^2$/NDF:26.5/21

Right Out: 2117.162+/-547.483 $\chi^2$/NDF: 13.7/17

Left In: 1921.612+/-394.933 $\chi^2$/NDF:15.5/20

Left: 1916.773+/-279.081 $\chi^2$/NDF: 42.1/42

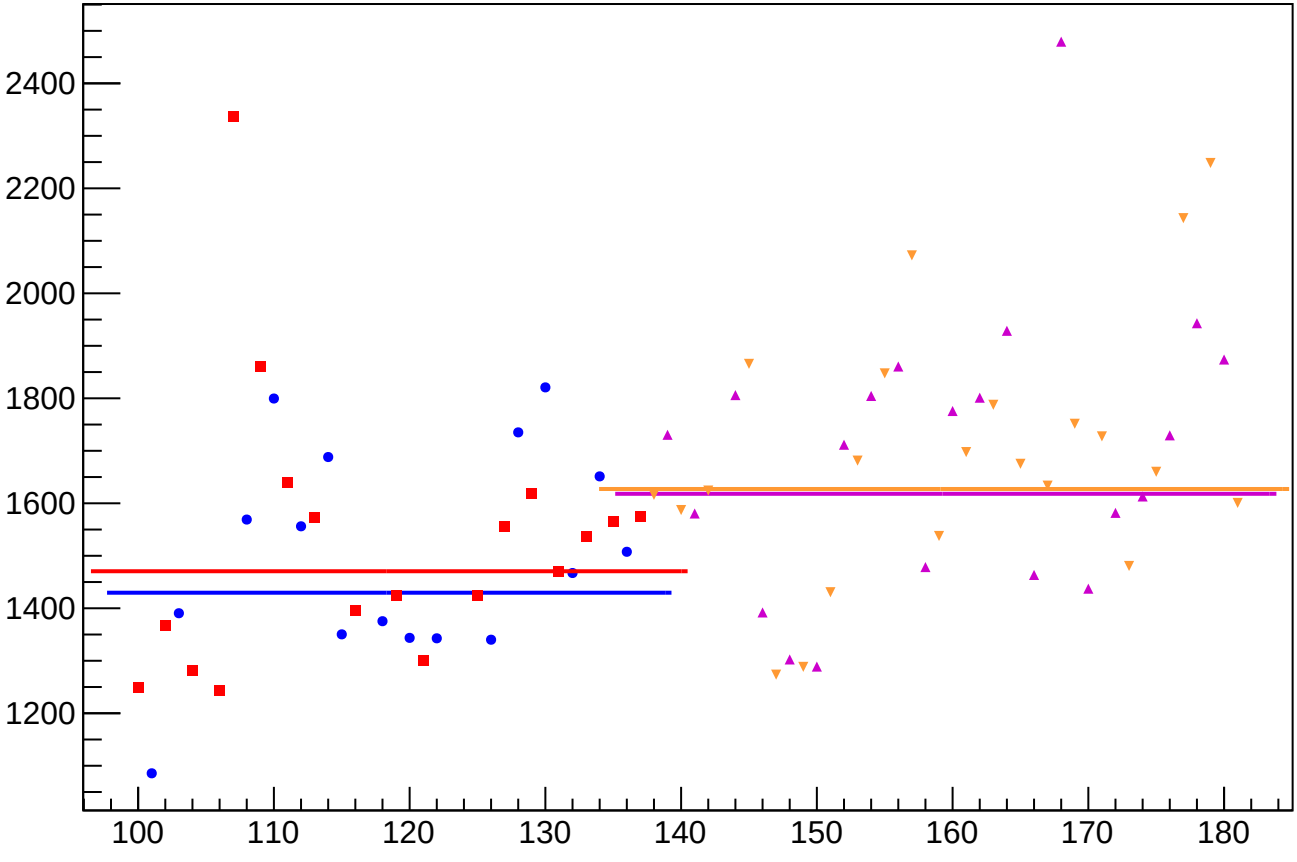
Right: 2380.790+/-383.745 $\chi^2$/NDF: 26.4/33

In: 2171.539+/-318.370 $\chi^2$/NDF:28.9/36

Out: 1982.066+/-320.025 $\chi^2$/NDF:40.3/39

All: 2077.293+/-225.704 $\chi^2$/NDF: 69.5/76

# asym_us_avg_rms vs Slug, Sign Corrected




Right In: 1429.654+/-0.380 $\chi^2$/NDF: 293388.5/15

Left Out: 1627.251+/-0.279 $\chi^2$/NDF:670613.9/21

Right Out: 1470.565+/-0.387 $\chi^2$/NDF: 218067.5/17

Left In: 1618.089+/-0.279 $\chi^2$/NDF:748912.1/20

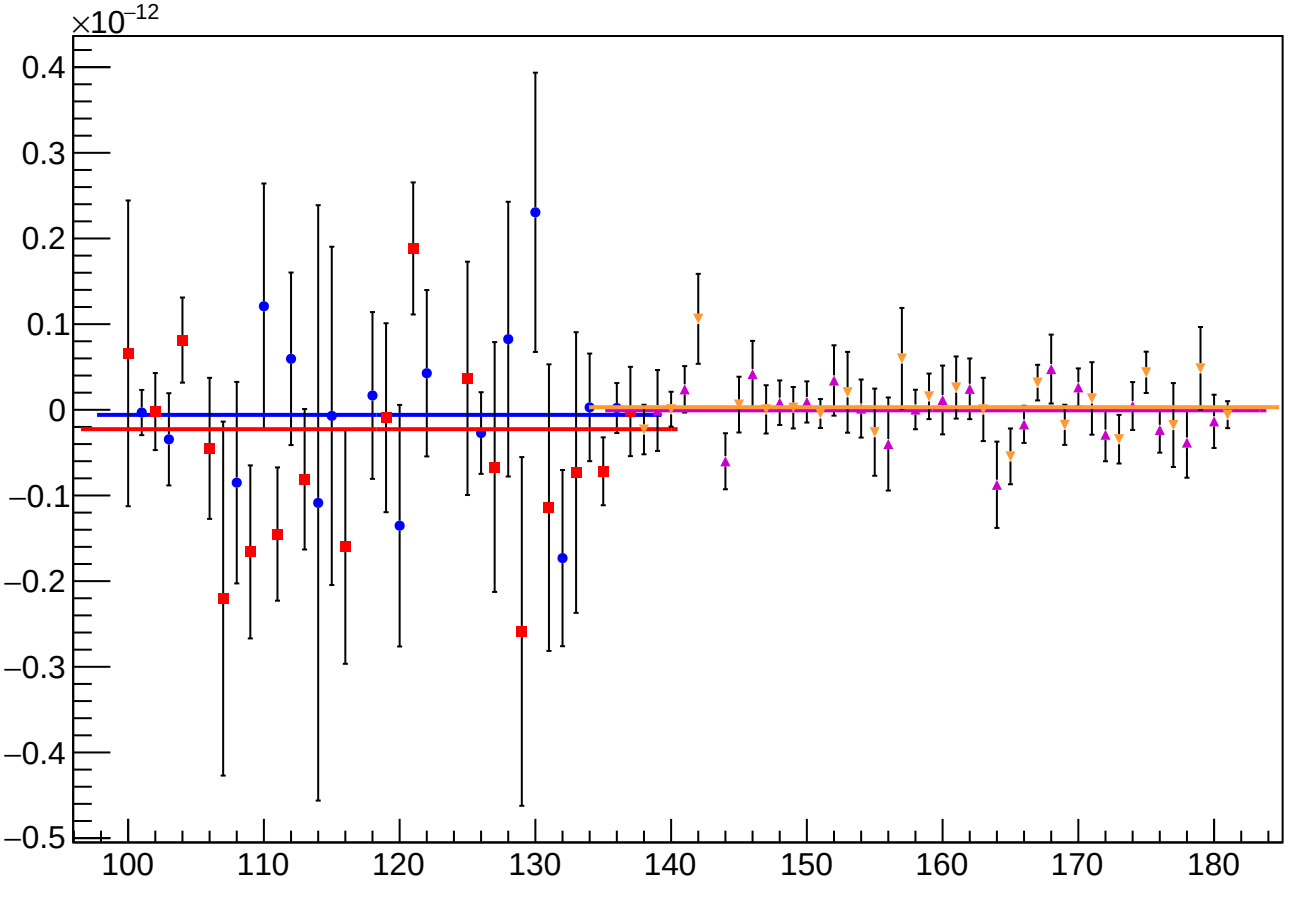
Left: 1622.676+/-0.197 $\chi^2$/NDF: 1420065.0/42

Right: 1449.753+/-0.271 $\chi^2$/NDF: 517137.1/33

In: 1552.109+/-0.225 $\chi^2$/NDF:1201723.3/36

Out: 1573.714+/-0.226 $\chi^2$/NDF:996521.9/39

All: 1562.856+/-0.160 $\chi^2$/NDF: 2202826.1/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.7/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.1/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.5/20

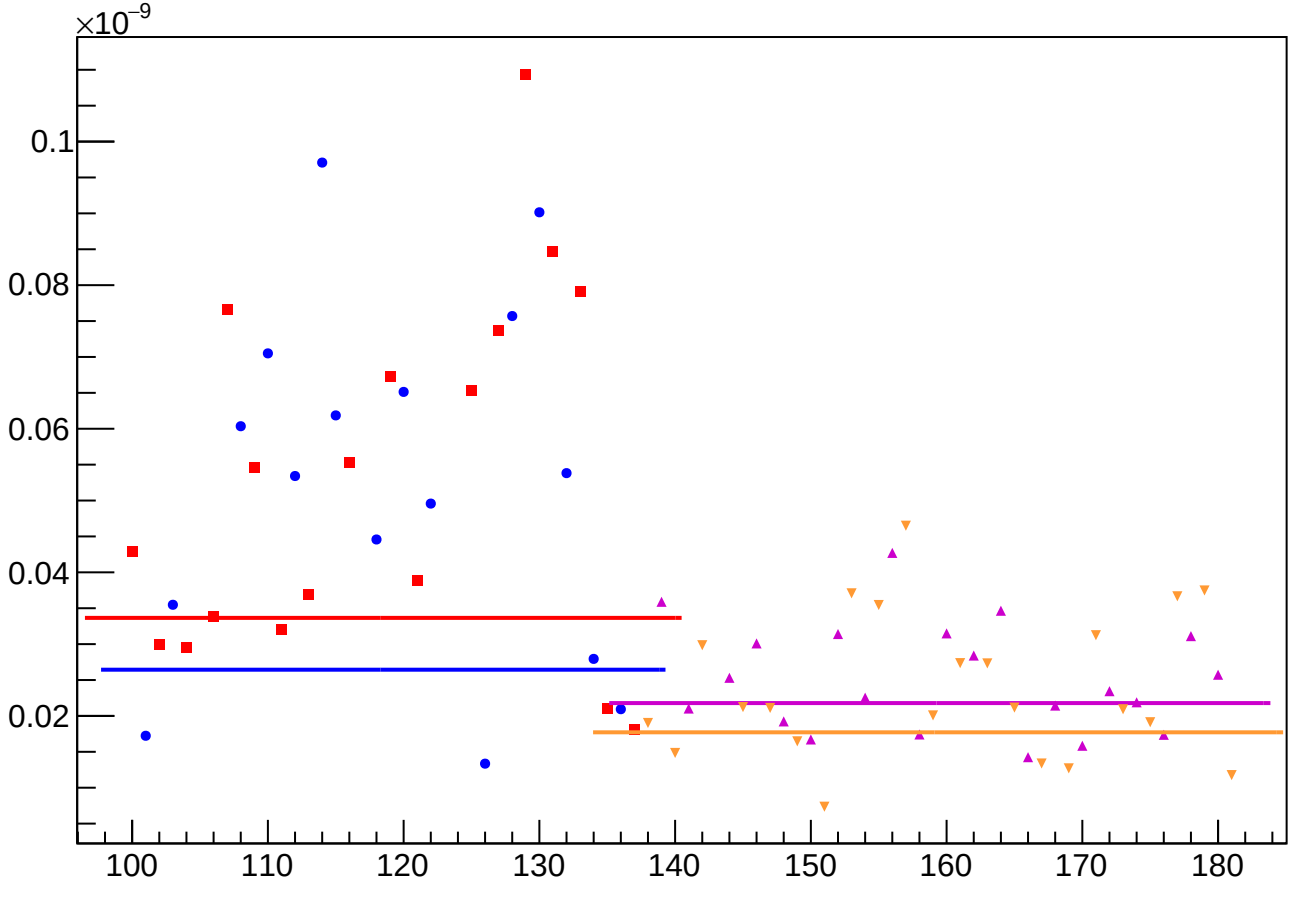
Left: 0.000+/-0.000 $\chi^2$/NDF: 35.4/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:25.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:43.6/39

All: -0.000+/-0.000 $\chi^2$/NDF: 68.8/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2138464.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3667306.2/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1711887.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1782875.4/20

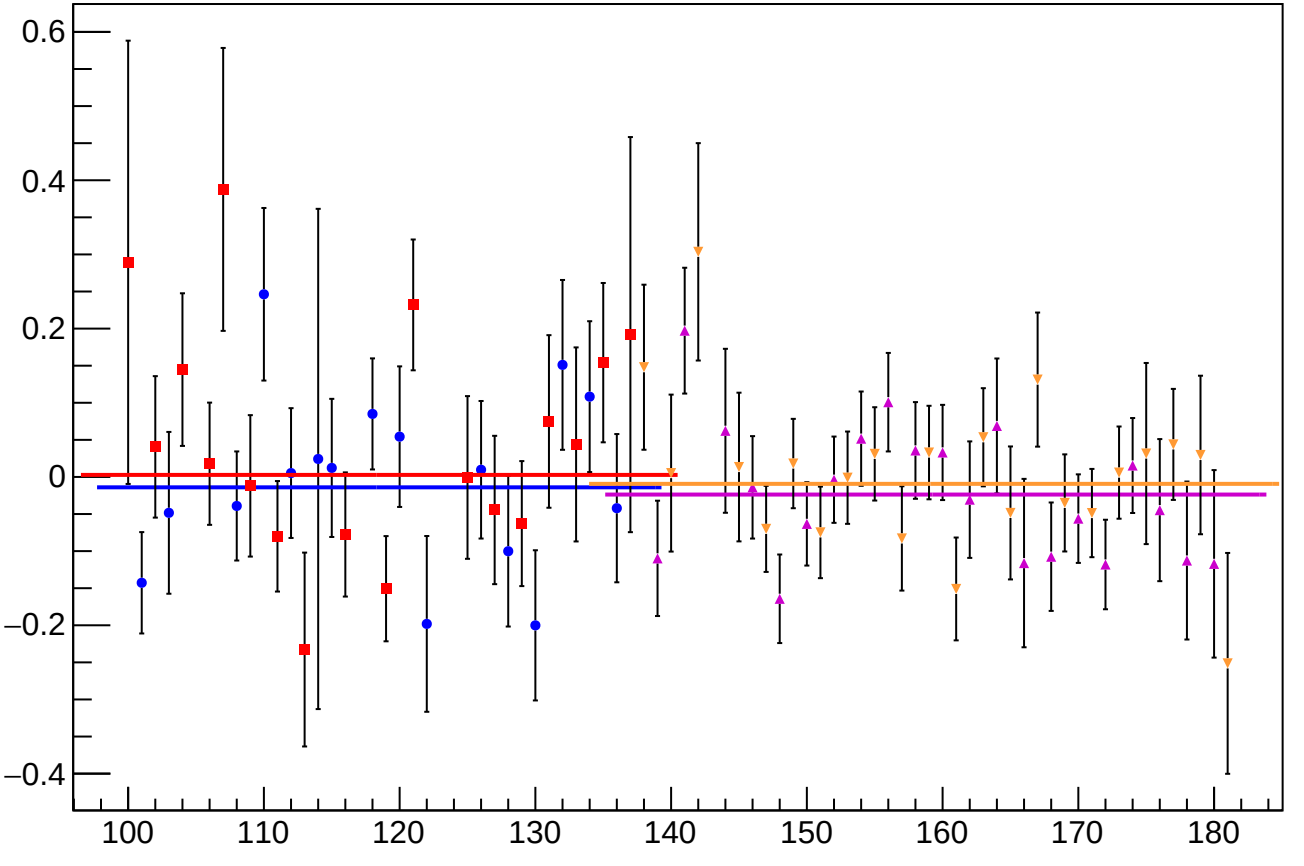
Left: 0.000+/-0.000 $\chi^2$/NDF: 5867381.5/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 4035968.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:4078395.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6769039.4/39

All: 0.000+/-0.000 $\chi^2$/NDF: 11167615.3/76




Right In: -0.014+/-0.024 $\chi^2$/NDF: 21.4/15

Left Out: -0.009+/-0.016 $\chi^2$/NDF:22.8/21

Right Out: 0.003+/-0.024 $\chi^2$/NDF: 27.8/17

Left In: -0.024+/-0.016 $\chi^2$/NDF:28.7/20

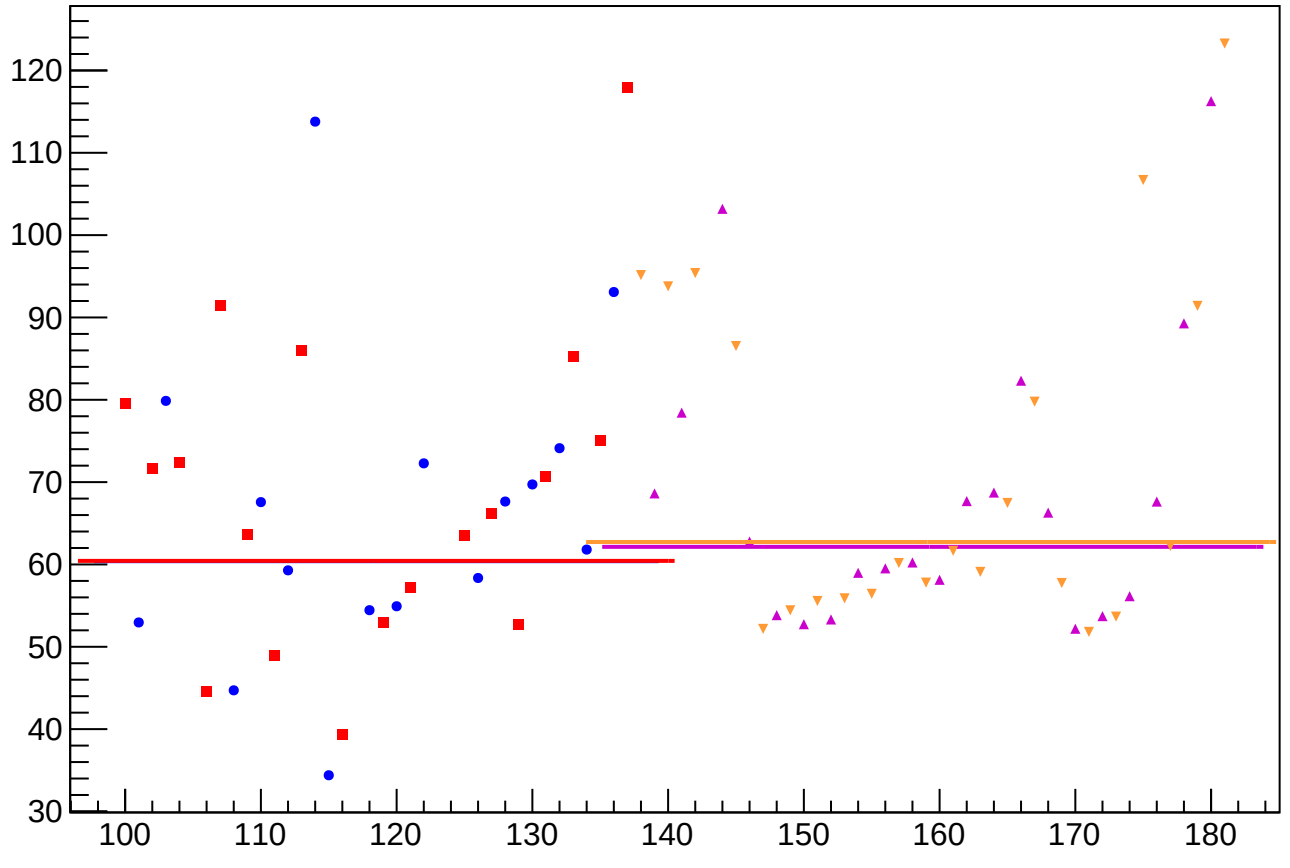
Left: -0.017+/-0.011 $\chi^2$/NDF: 51.9/42

Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.021+/-0.013 $\chi^2$/NDF:50.2/36

Out: -0.006+/-0.013 $\chi^2$/NDF:50.7/39

All: -0.013+/-0.009 $\chi^2$/NDF: 101.6/76




Right In: 60.399+/-0.017 $\chi^2$/NDF: 703157.1/15

Left Out: 62.729+/-0.011 $\chi^2$/NDF:1683013.0/21

Right Out: 60.434+/-0.017 $\chi^2$/NDF: 711093.4/17

Left In: 62.138+/-0.011 $\chi^2$/NDF:1227492.3/20

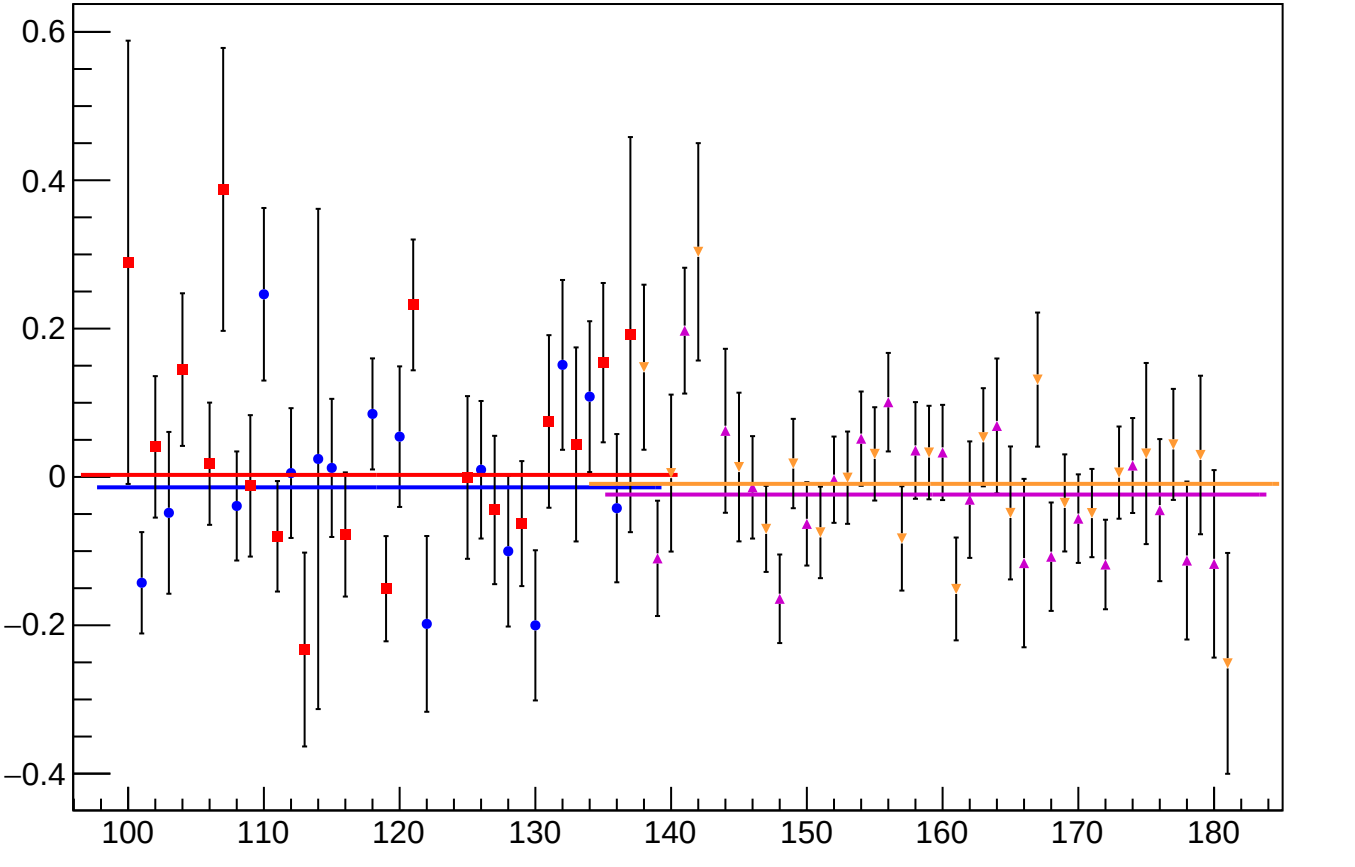
Left: 62.430+/-0.008 $\chi^2$/NDF: 2911899.1/42

Right: 60.417+/-0.012 $\chi^2$/NDF: 1414252.6/33

In: 61.612+/-0.009 $\chi^2$/NDF:1938057.2/36

Out: 62.020+/-0.009 $\chi^2$/NDF:2406960.3/39

All: 61.814+/-0.007 $\chi^2$/NDF: 4345975.7/76




Right In: -0.014+/-0.024 $\chi^2$/NDF: 21.4/15

Left Out: -0.009+/-0.016 $\chi^2$/NDF:22.8/21

Right Out: 0.003+/-0.024 $\chi^2$/NDF: 27.8/17

Left In: -0.024+/-0.016 $\chi^2$/NDF:28.7/20

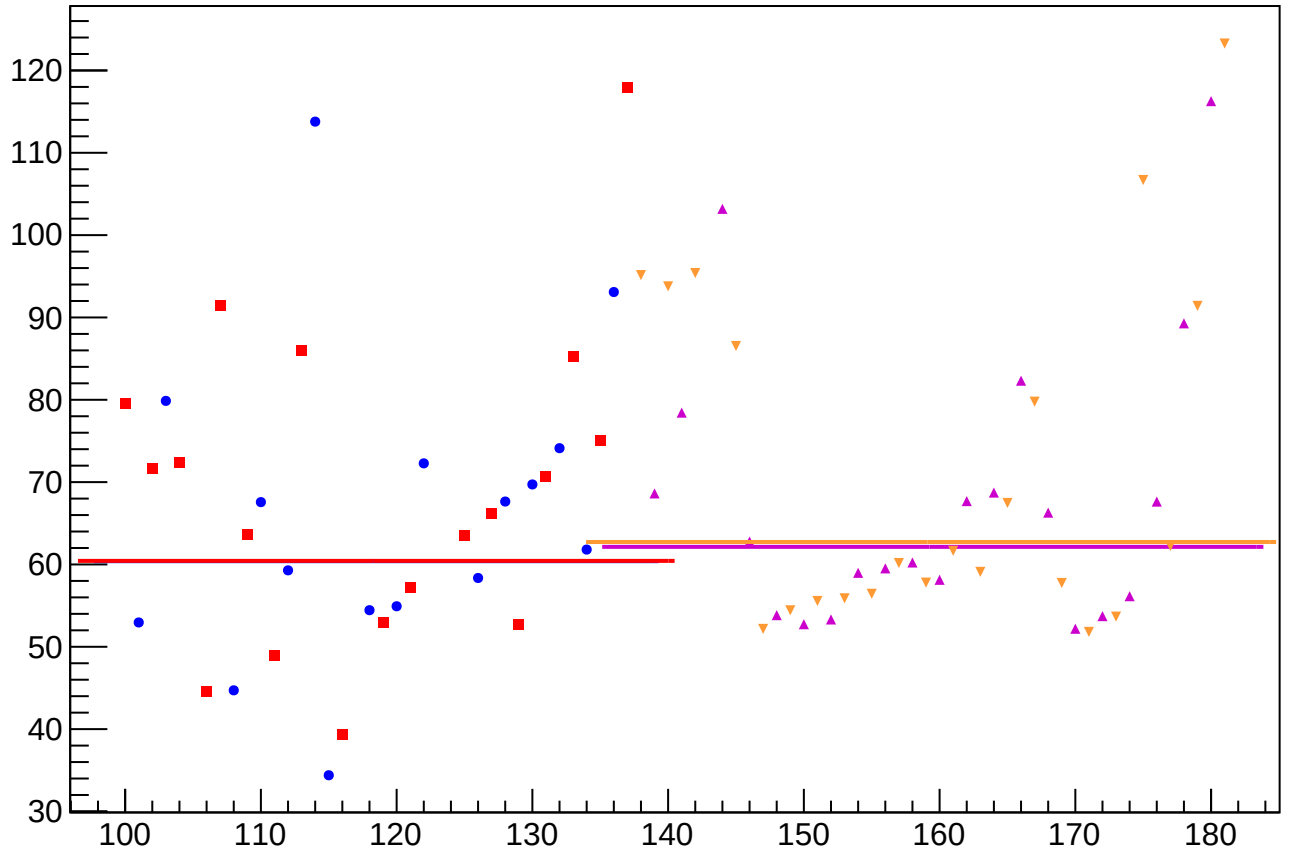
Left: -0.017+/-0.011 $\chi^2$/NDF: 51.9/42

Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.021+/-0.013 $\chi^2$/NDF:50.2/36

Out: -0.006+/-0.013 $\chi^2$/NDF:50.7/39

All: -0.013+/-0.009 $\chi^2$/NDF: 101.6/76




Right In: 60.399+/-0.017 $\chi^2$/NDF: 703157.1/15

Left Out: 62.729+/-0.011 $\chi^2$/NDF:1683013.0/21

Right Out: 60.434+/-0.017 $\chi^2$/NDF: 711093.4/17

Left In: 62.138+/-0.011 $\chi^2$/NDF:1227492.3/20

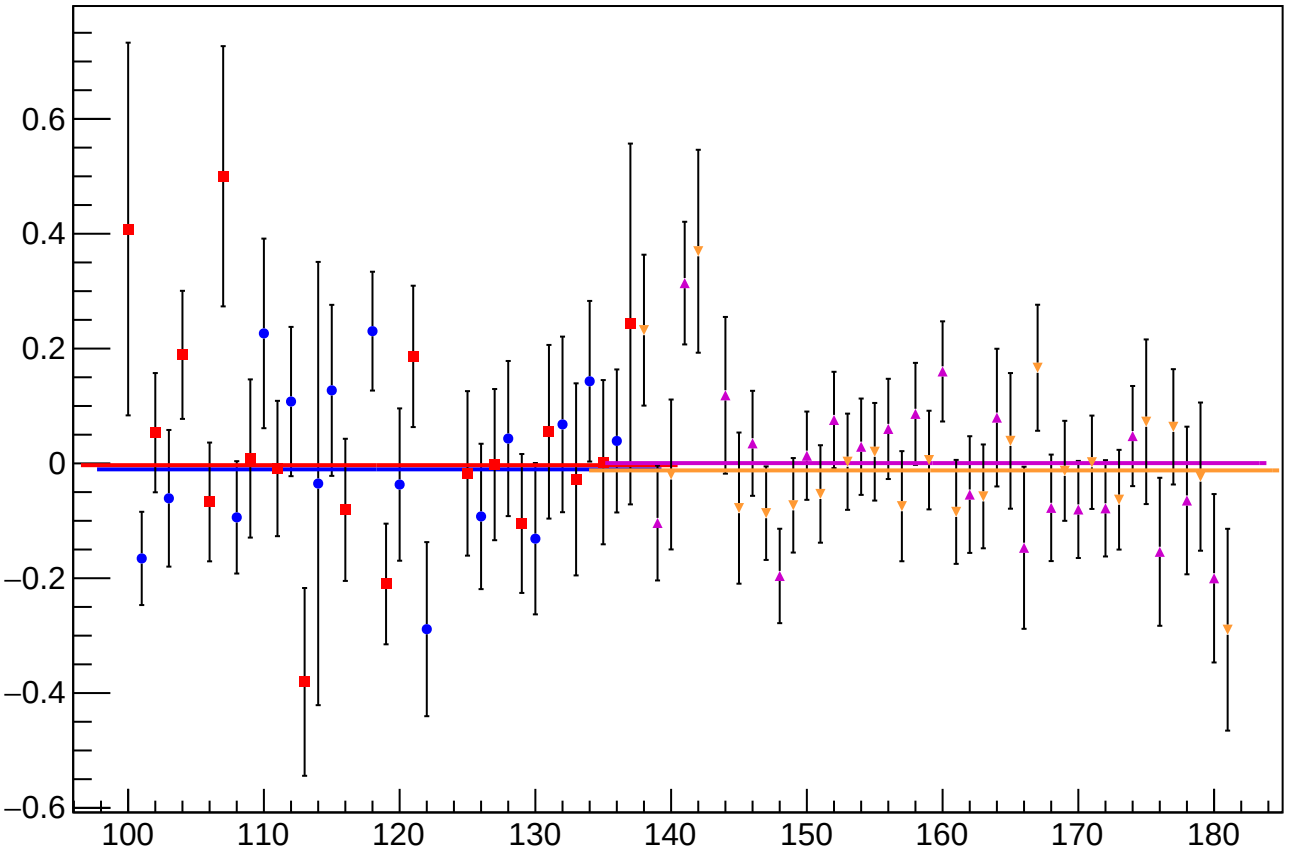
Left: 62.430+/-0.008 $\chi^2$/NDF: 2911899.1/42

Right: 60.417+/-0.012 $\chi^2$/NDF: 1414252.6/33

In: 61.612+/-0.009 $\chi^2$/NDF:1938057.2/36

Out: 62.020+/-0.009 $\chi^2$/NDF:2406960.3/39

All: 61.814+/-0.007 $\chi^2$/NDF: 4345975.7/76




Right In: -0.010+/-0.032 $\chi^2$/NDF: 20.2/15

Left Out: -0.012+/-0.021 $\chi^2$/NDF:18.2/21

Right Out: -0.003+/-0.032 $\chi^2$/NDF: 23.7/17

Left In: 0.001+/-0.021 $\chi^2$/NDF:30.2/20

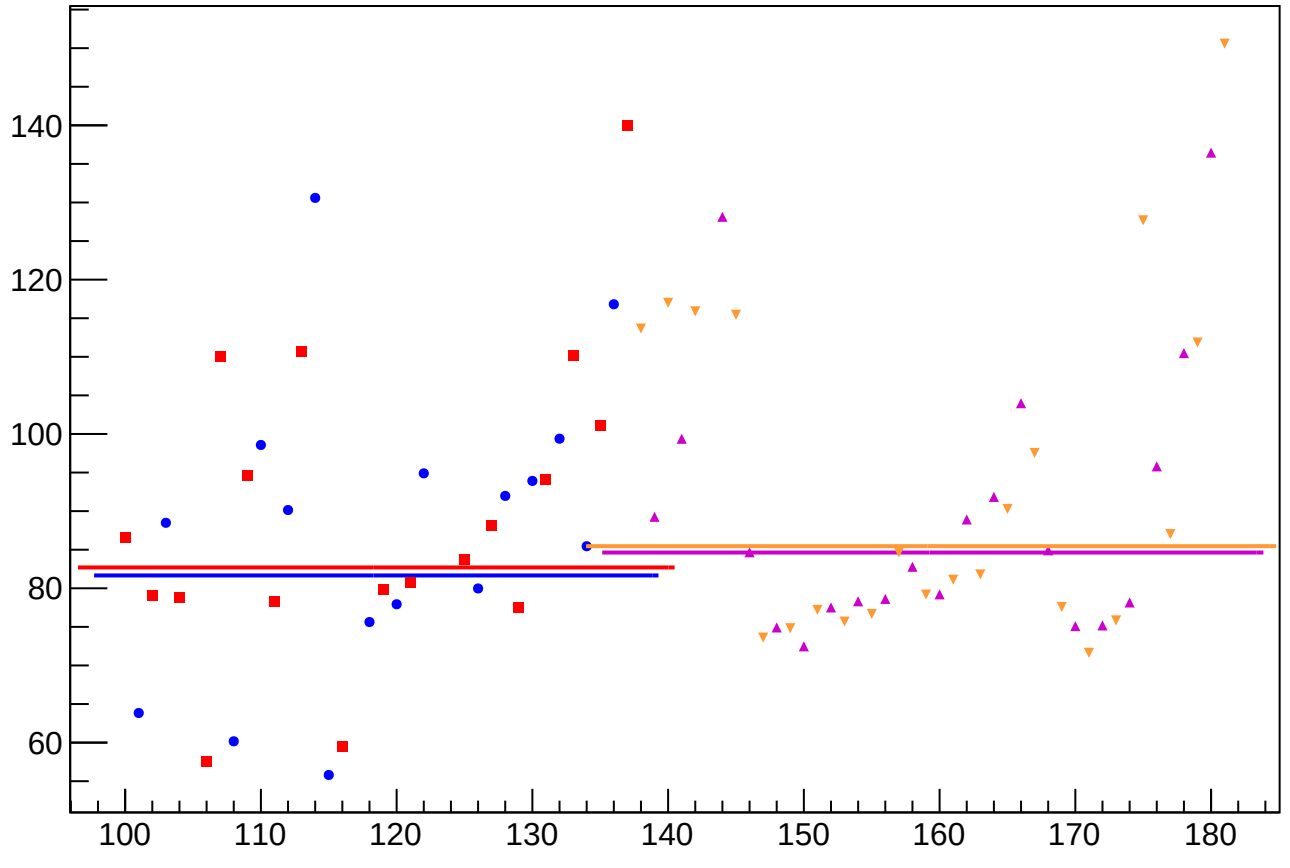
Left: -0.006+/-0.015 $\chi^2$/NDF: 48.5/42

Right: -0.007+/-0.022 $\chi^2$/NDF: 43.8/33

In: -0.003+/-0.017 $\chi^2$/NDF:50.4/36

Out: -0.009+/-0.018 $\chi^2$/NDF:41.9/39

All: -0.006+/-0.012 $\chi^2$/NDF: 92.4/76




Right In: 81.664+/-0.022 $\chi^2$/NDF: 561848.8/15

Left Out: 85.459+/-0.015 $\chi^2$/NDF:1192406.0/21

Right Out: 82.701+/-0.022 $\chi^2$/NDF: 473065.7/17

Left In: 84.635+/-0.015 $\chi^2$/NDF:823265.3/20

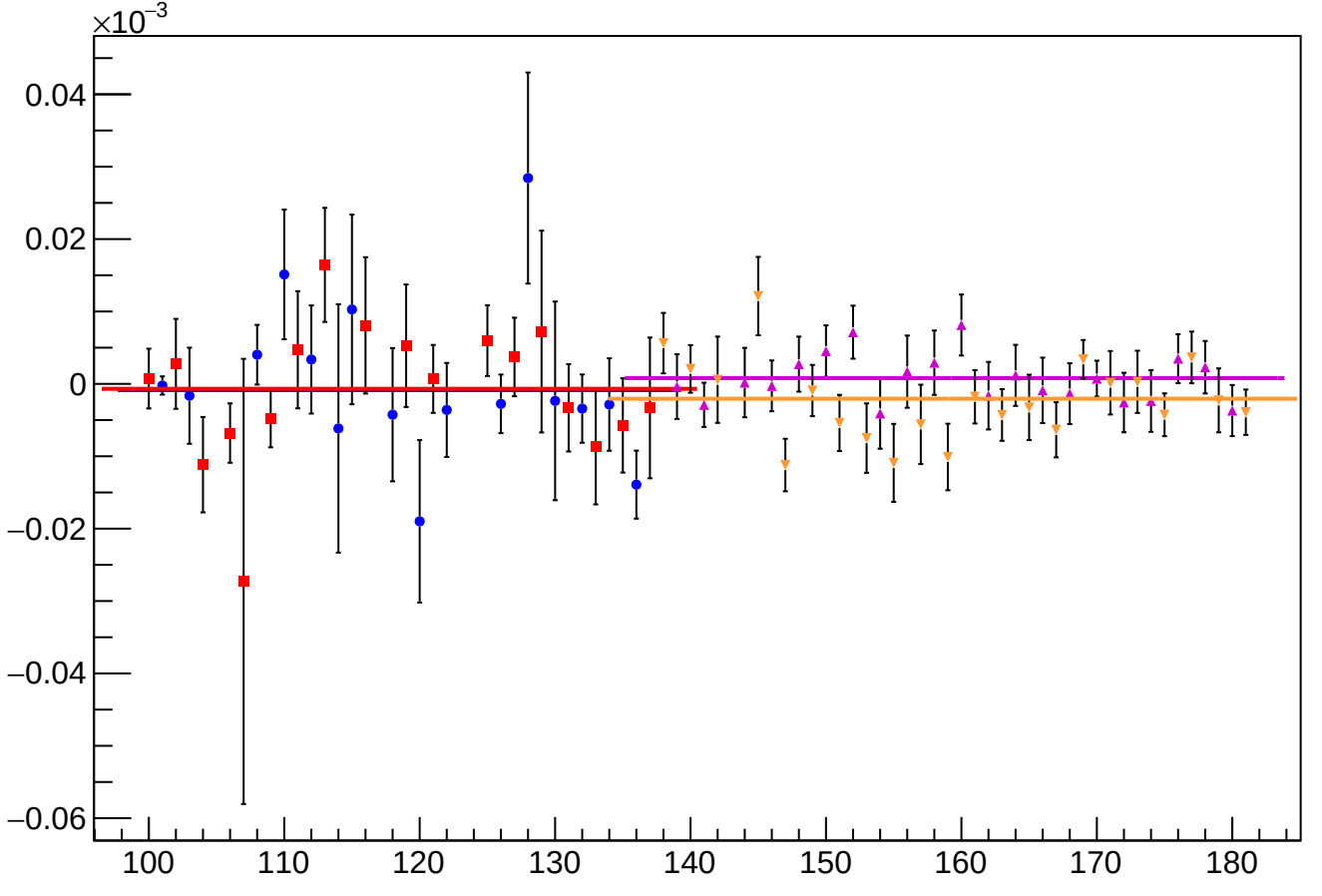
Left: 85.043+/-0.011 $\chi^2$/NDF: 2017196.7/42

Right: 82.180+/-0.016 $\chi^2$/NDF: 1035987.5/33

In: 83.724+/-0.012 $\chi^2$/NDF:1397370.1/36

Out: 84.608+/-0.012 $\chi^2$/NDF:1675912.0/39

All: 84.163+/-0.009 $\chi^2$/NDF: 3075814.2/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:36.7/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.6/20

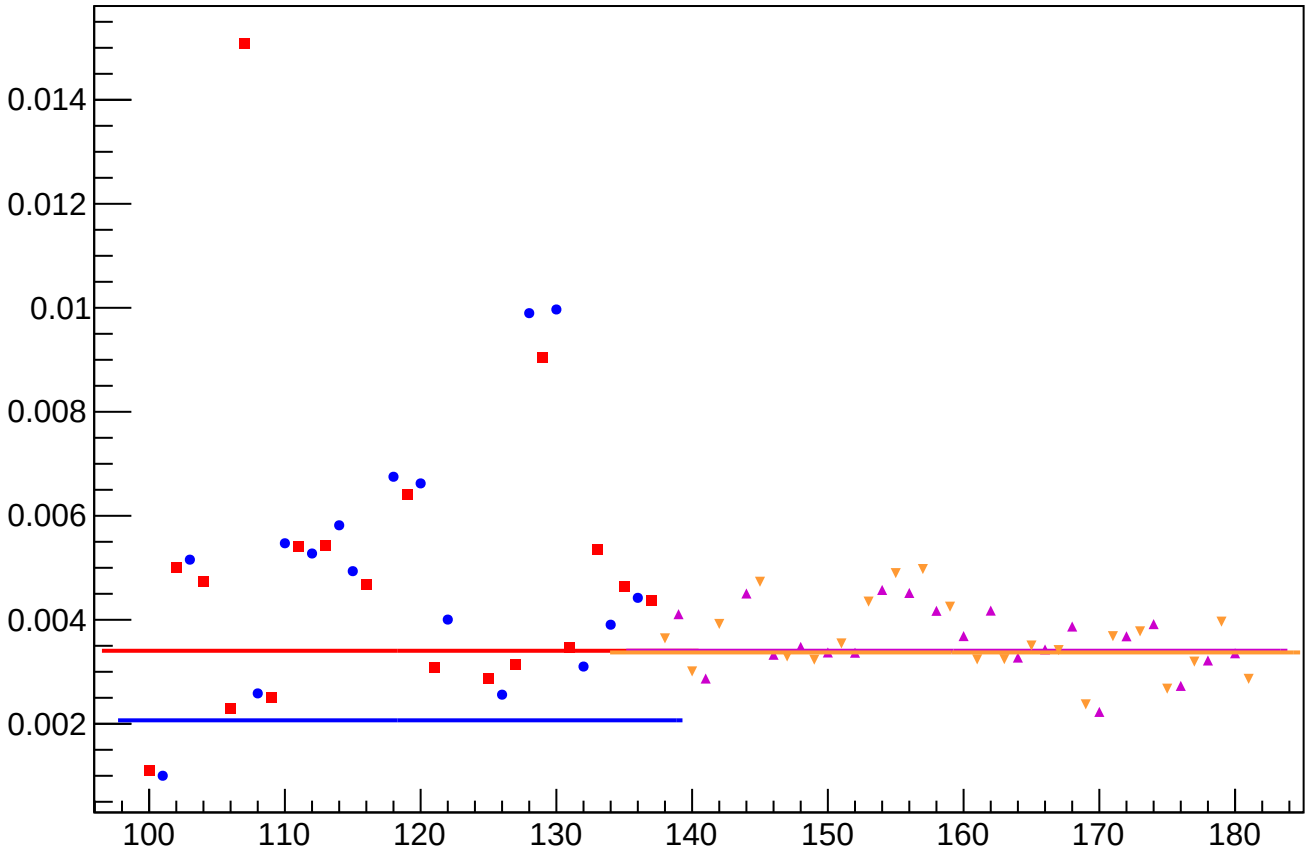
Left: -0.000+/-0.000 $\chi^2$/NDF: 57.1/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:37.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:55.7/39

All: -0.000+/-0.000 $\chi^2$/NDF: 96.8/76




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5813338.1/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:1192070.2/21

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2491305.2/17

Left In: 0.003+/-0.000 $\chi^2$/NDF:1155259.2/20

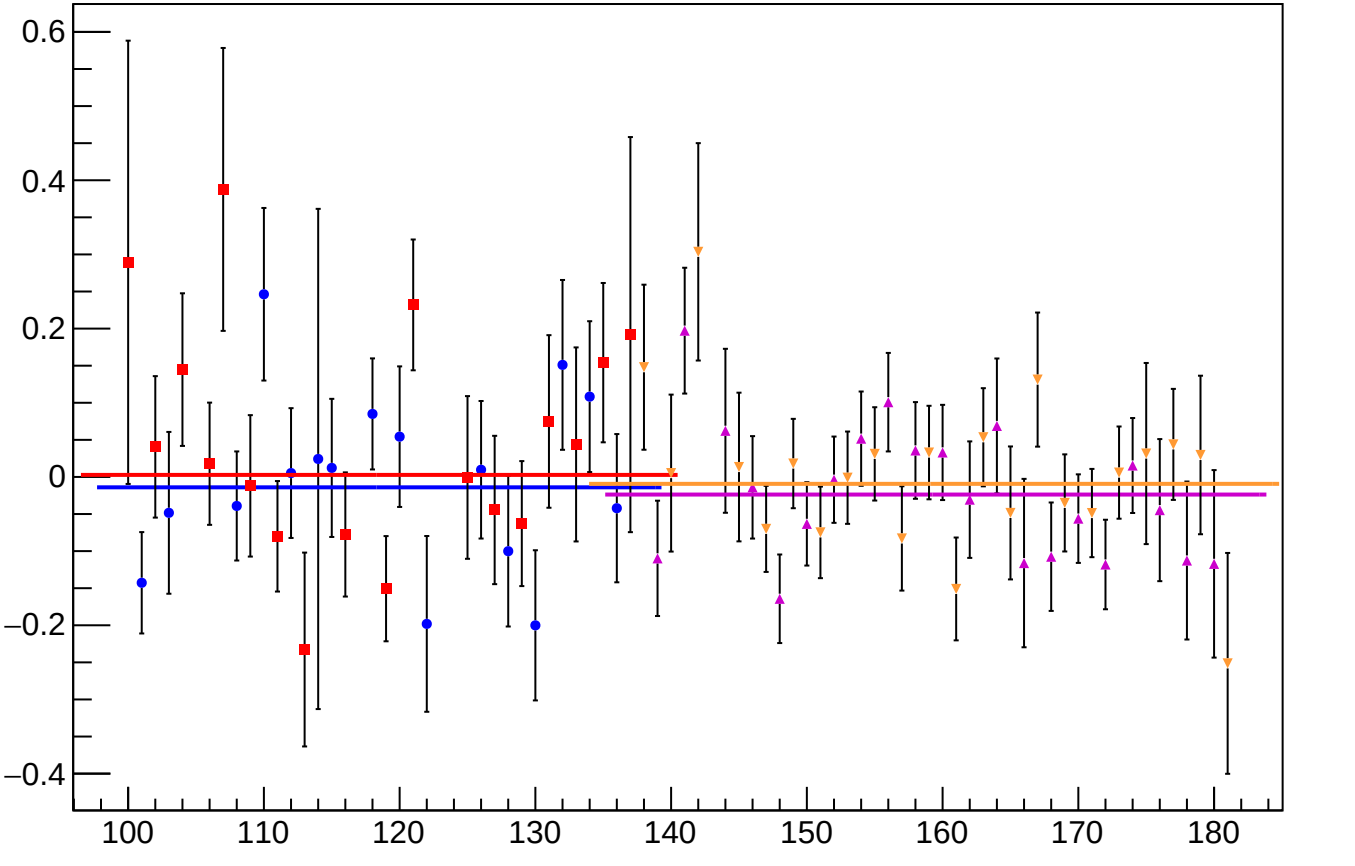
Left: 0.003+/-0.000 $\chi^2$/NDF: 2348866.9/42

Right: 0.003+/-0.000 $\chi^2$/NDF: 9479134.4/33

In: 0.003+/-0.000 $\chi^2$/NDF:9050898.4/36

Out: 0.003+/-0.000 $\chi^2$/NDF:3684127.7/39

All: 0.003+/-0.000 $\chi^2$/NDF: 13323085.7/76




Right In: -0.014+/-0.024 $\chi^2$/NDF: 21.4/15

Left Out: -0.009+/-0.016 $\chi^2$/NDF:22.8/21

Right Out: 0.003+/-0.024 $\chi^2$/NDF: 27.8/17

Left In: -0.024+/-0.016 $\chi^2$/NDF:28.7/20

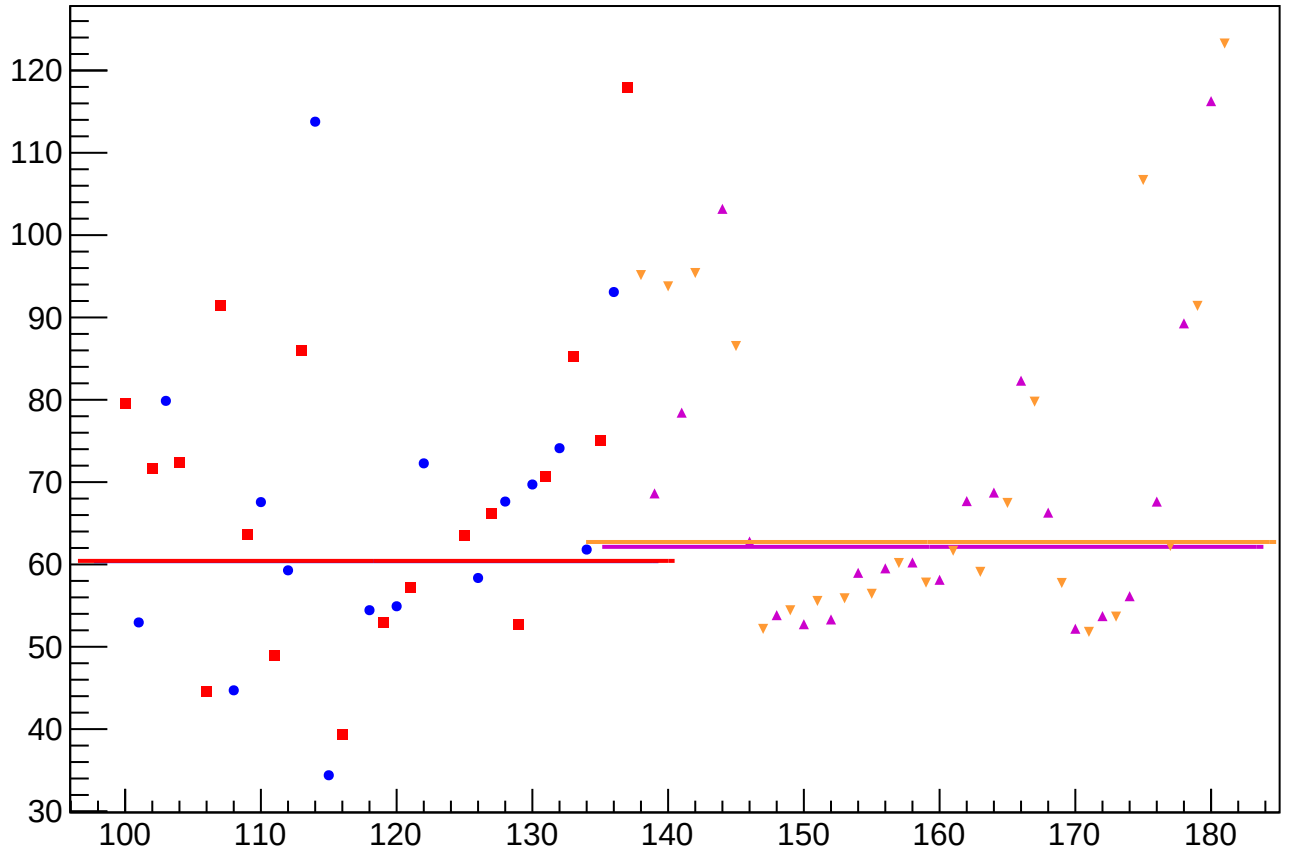
Left: -0.017+/-0.011 $\chi^2$/NDF: 51.9/42

Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.021+/-0.013 $\chi^2$/NDF:50.2/36

Out: -0.006+/-0.013 $\chi^2$/NDF:50.7/39

All: -0.013+/-0.009 $\chi^2$/NDF: 101.6/76




Right In: 60.398+/-0.017 $\chi^2$/NDF: 703169.3/15

Left Out: 62.729+/-0.011 $\chi^2$/NDF:1682997.0/21

Right Out: 60.432+/-0.017 $\chi^2$/NDF: 711122.4/17

Left In: 62.139+/-0.011 $\chi^2$/NDF:1227481.6/20

Left: 62.430+/-0.008 $\chi^2$/NDF: 2911872.7/42

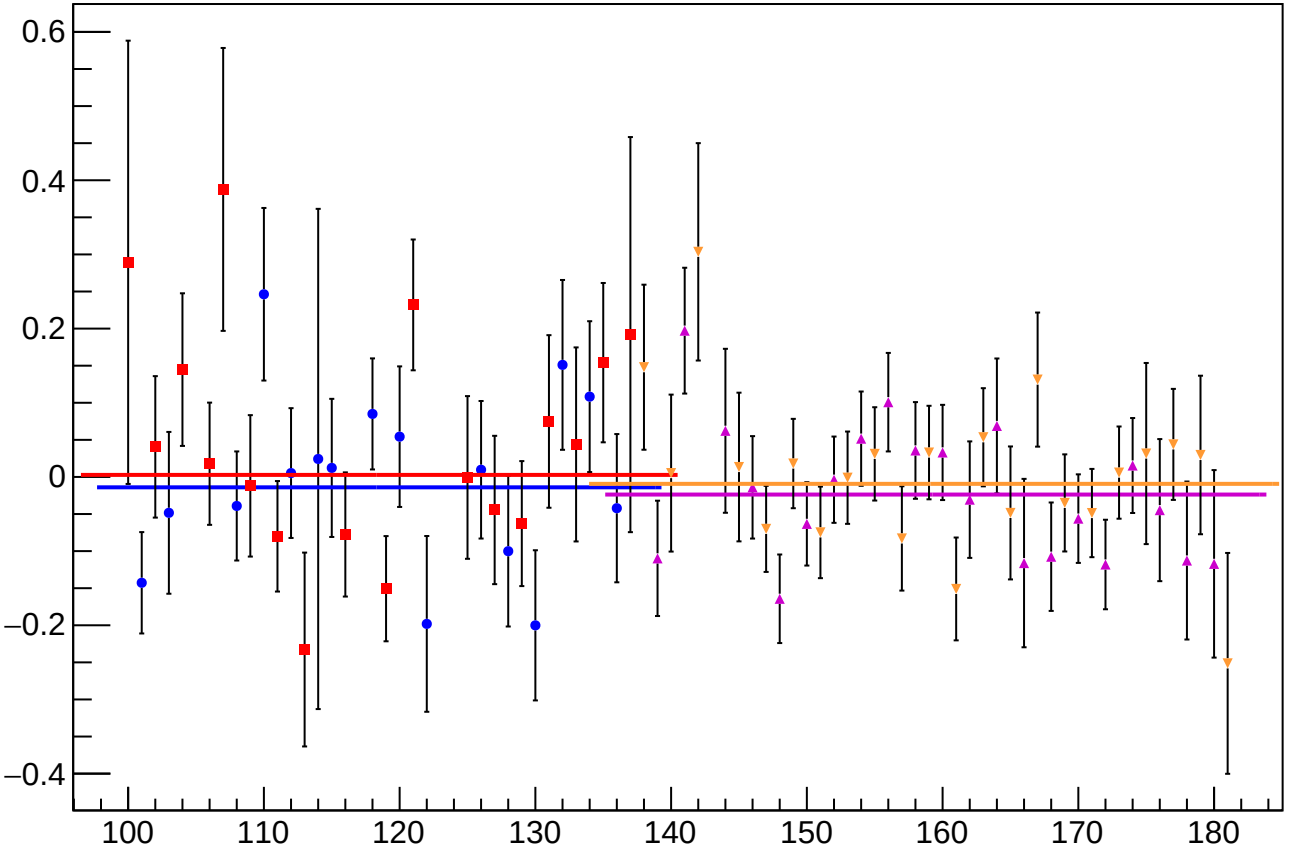
Right: 60.415+/-0.012 $\chi^2$/NDF: 1414293.7/33

In: 61.612+/-0.009 $\chi^2$/NDF:1938073.5/36

Out: 62.020+/-0.009 $\chi^2$/NDF:2406997.2/39

All: 61.814+/-0.007 $\chi^2$/NDF: 4346028.5/76

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.014+/-0.024 $\chi^2$/NDF: 21.4/15

Left Out: -0.009+/-0.016 $\chi^2$/NDF:22.8/21

Right Out: 0.003+/-0.024 $\chi^2$/NDF: 27.8/17

Left In: -0.024+/-0.016 $\chi^2$/NDF:28.7/20

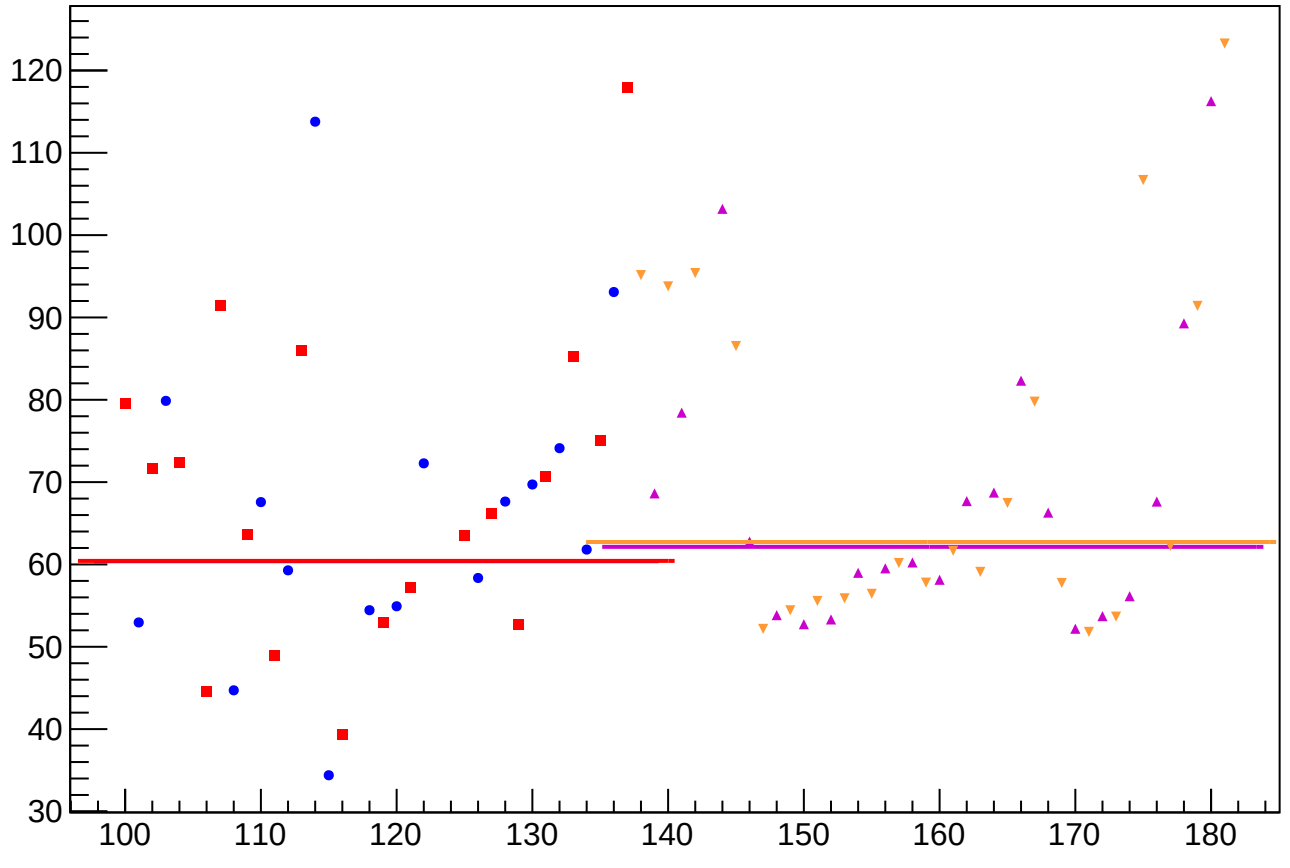
Left: -0.017+/-0.011 $\chi^2$/NDF: 51.9/42

Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.021+/-0.013 $\chi^2$/NDF:50.2/36

Out: -0.006+/-0.013 $\chi^2$/NDF:50.7/39

All: -0.013+/-0.009 $\chi^2$/NDF: 101.6/76




Right In: 60.398+/-0.017 $\chi^2$/NDF: 703169.3/15

Left Out: 62.729+/-0.011 $\chi^2$/NDF:1682997.0/21

Right Out: 60.432+/-0.017 $\chi^2$/NDF: 711122.4/17

Left In: 62.139+/-0.011 $\chi^2$/NDF:1227481.6/20

Left: 62.430+/-0.008 $\chi^2$/NDF: 2911872.7/42

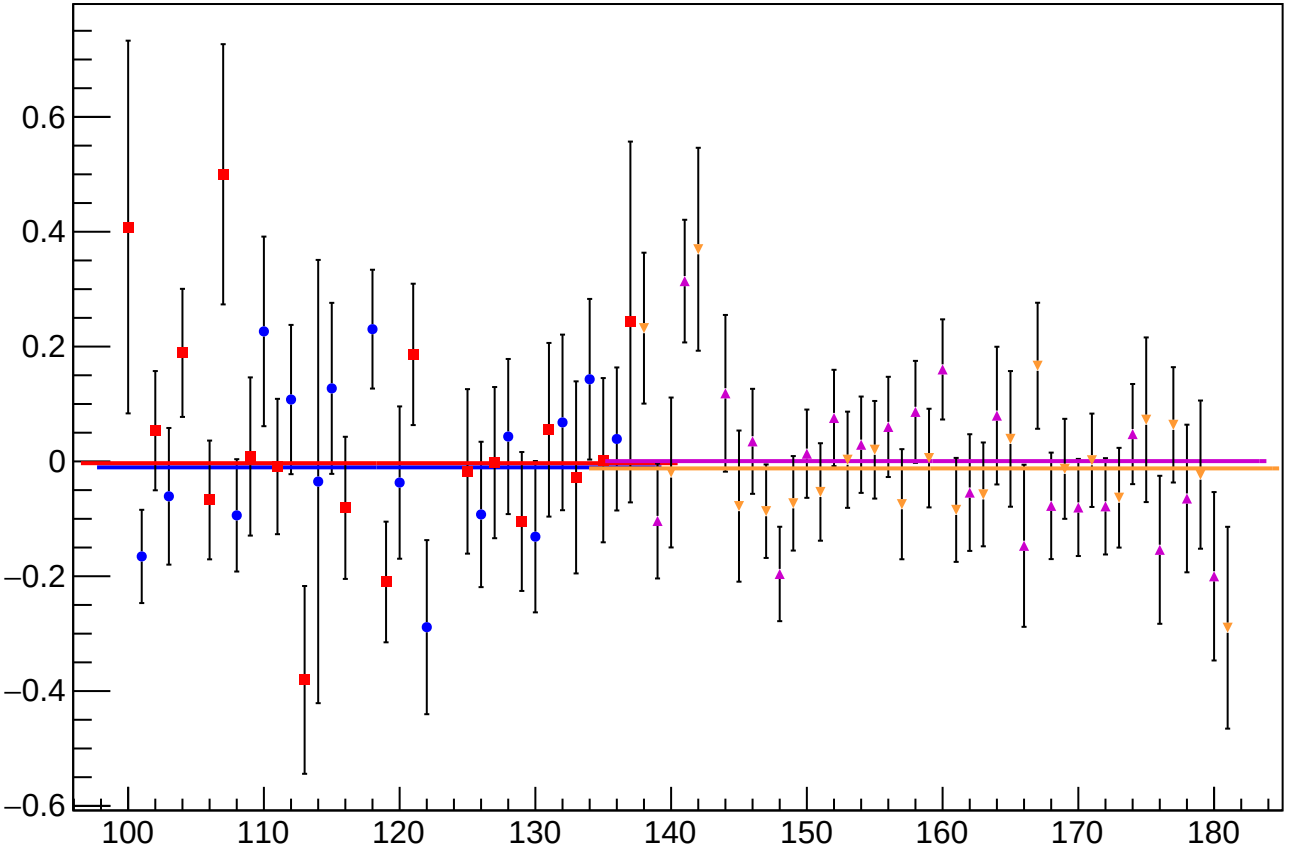
Right: 60.415+/-0.012 $\chi^2$/NDF: 1414293.7/33

In: 61.612+/-0.009 $\chi^2$/NDF:1938073.5/36

Out: 62.020+/-0.009 $\chi^2$/NDF:2406997.2/39

All: 61.814+/-0.007 $\chi^2$/NDF: 4346028.5/76

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.032 $\chi^2$/NDF: 20.2/15

Left Out: -0.012+/-0.021 $\chi^2$/NDF:18.2/21

Right Out: -0.003+/-0.032 $\chi^2$/NDF: 23.7/17

Left In: 0.001+/-0.021 $\chi^2$/NDF:30.2/20

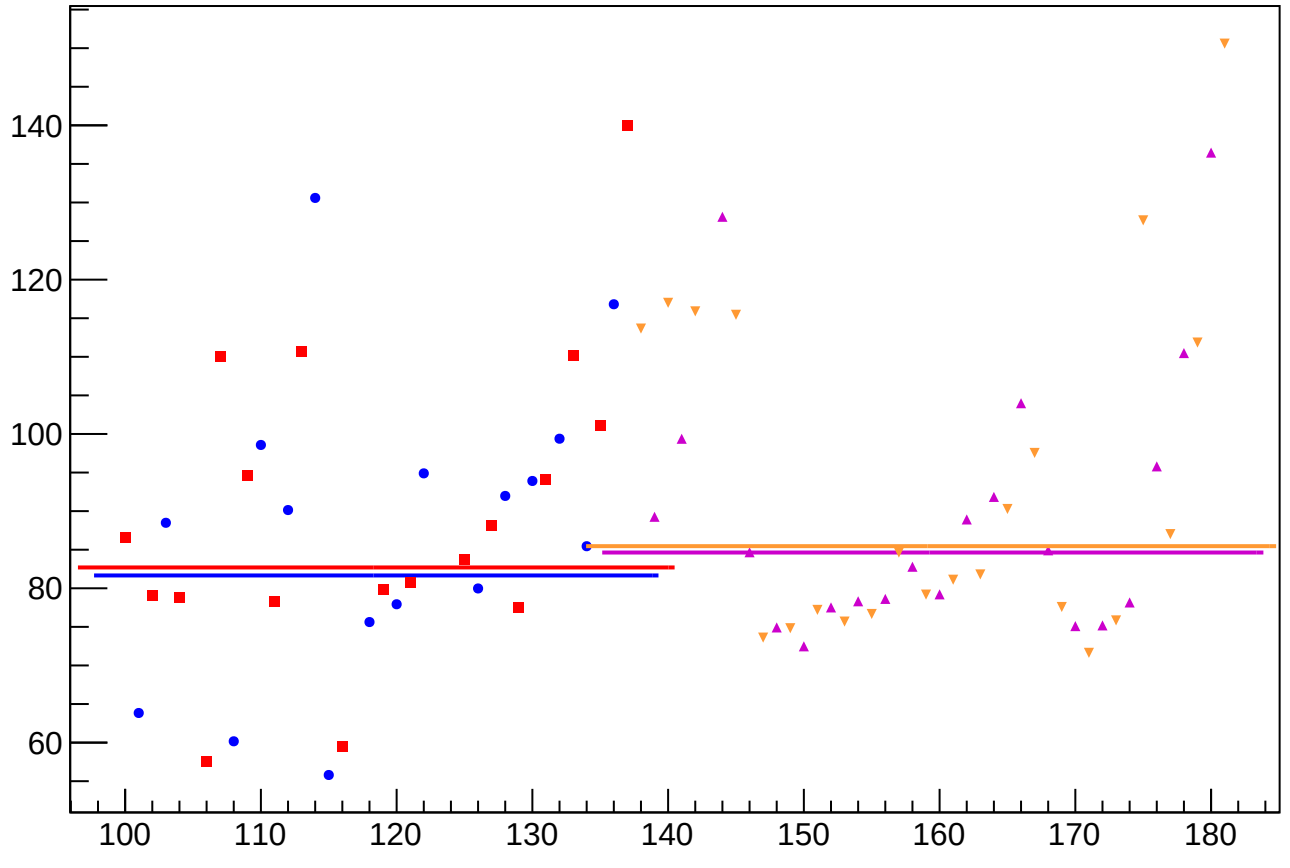
Left: -0.006+/-0.015 $\chi^2$/NDF: 48.5/42

Right: -0.007+/-0.022 $\chi^2$/NDF: 43.8/33

In: -0.003+/-0.017 $\chi^2$/NDF:50.4/36

Out: -0.009+/-0.018 $\chi^2$/NDF:41.9/39

All: -0.006+/-0.012 $\chi^2$/NDF: 92.4/76




Right In: 81.663+/-0.022 $\chi^2$/NDF: 561836.4/15

Left Out: 85.460+/-0.015 $\chi^2$/NDF:1192397.7/21

Right Out: 82.700+/-0.022 $\chi^2$/NDF: 473062.4/17

Left In: 84.635+/-0.015 $\chi^2$/NDF:823262.4/20

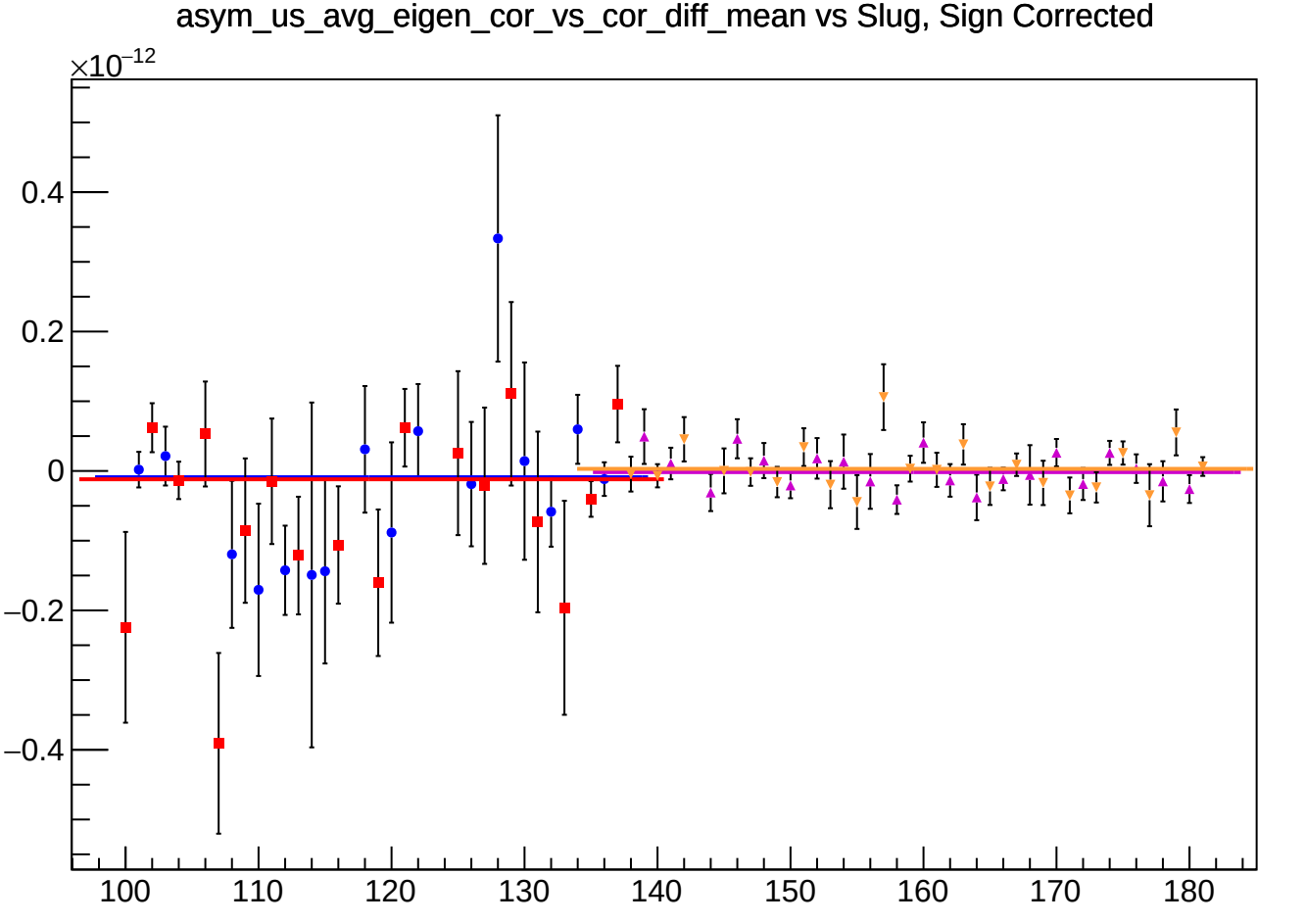
Left: 85.044+/-0.011 $\chi^2$/NDF: 2017185.8/42

Right: 82.179+/-0.016 $\chi^2$/NDF: 1035971.3/33

In: 83.724+/-0.012 $\chi^2$/NDF:1397364.1/36

Out: 84.608+/-0.012 $\chi^2$/NDF:1675911.0/39

All: 84.163+/-0.009 $\chi^2$/NDF: 3075807.1/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.8/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 31.1/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.9/20

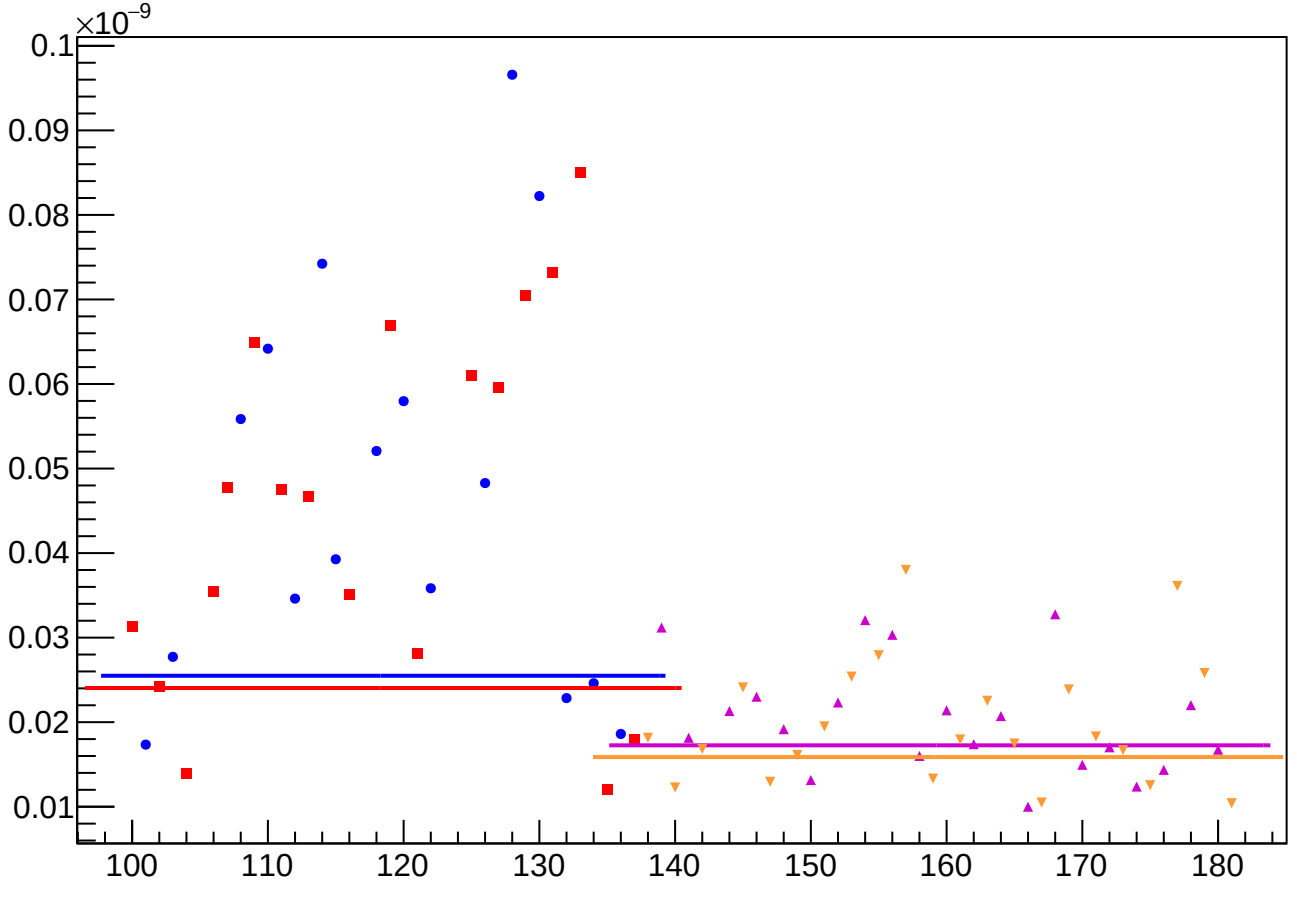
Left: 0.000+/-0.000 $\chi^2$/NDF: 46.1/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 48.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:40.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:55.0/39

All: -0.000+/-0.000 $\chi^2$/NDF: 95.9/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1999848.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2656132.7/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3084598.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2088226.4/20

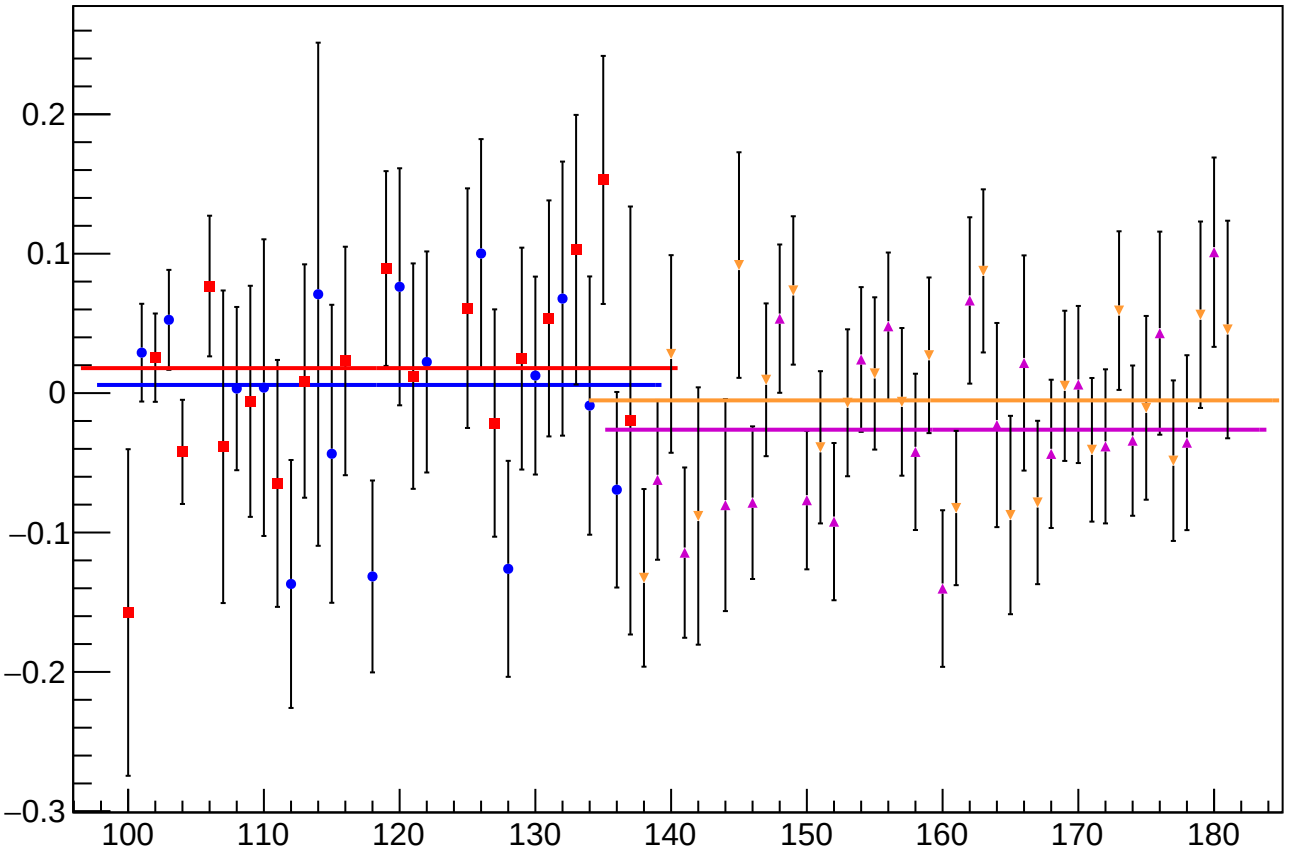
Left: 0.000+/-0.000 $\chi^2$/NDF: 4819733.3/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 5096304.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:4756541.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6395836.4/39

All: 0.000+/-0.000 $\chi^2$/NDF: 11255874.6/76




Right In: 0.006+/-0.017 $\chi^2$/NDF: 15.6/15

Left Out: -0.005+/-0.013 $\chi^2$/NDF:20.6/21

Right Out: 0.018+/-0.016 $\chi^2$/NDF: 12.3/17

Left In: -0.026+/-0.013 $\chi^2$/NDF:23.4/20

Left: -0.016+/-0.009 $\chi^2$/NDF: 45.3/42

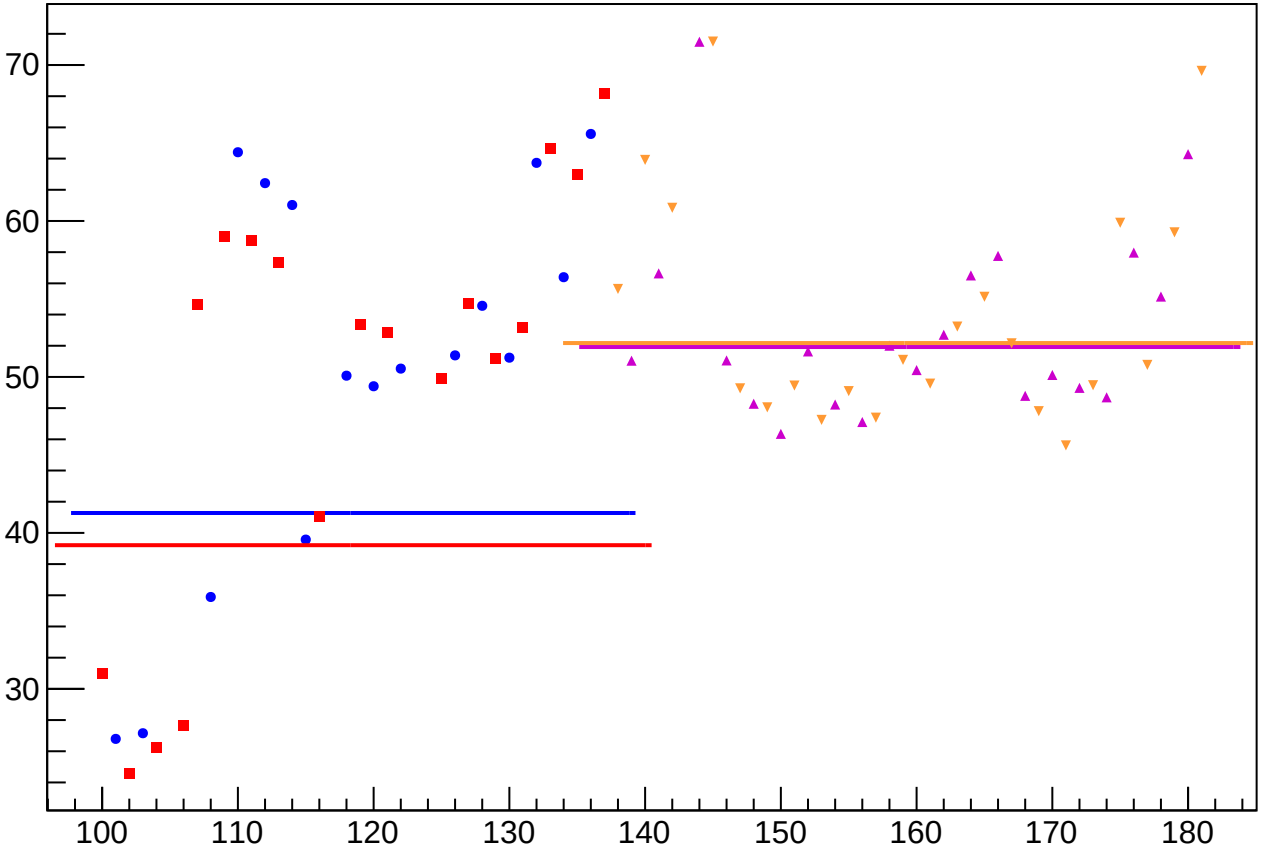
Right: 0.012+/-0.011 $\chi^2$/NDF: 28.2/33

In: -0.014+/-0.010 $\chi^2$/NDF:41.3/36

Out: 0.004+/-0.010 $\chi^2$/NDF:34.2/39

All: -0.005+/-0.007 $\chi^2$/NDF: 77.2/76

asym_us_avg_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 41.277+/-0.012 $\chi^2$/NDF: 1505245.8/15

Left Out: 52.173+/-0.009 $\chi^2$/NDF:466024.5/21

Right Out: 39.212+/-0.011 $\chi^2$/NDF: 1819921.9/17

Left In: 51.918+/-0.009 $\chi^2$/NDF:333760.7/20

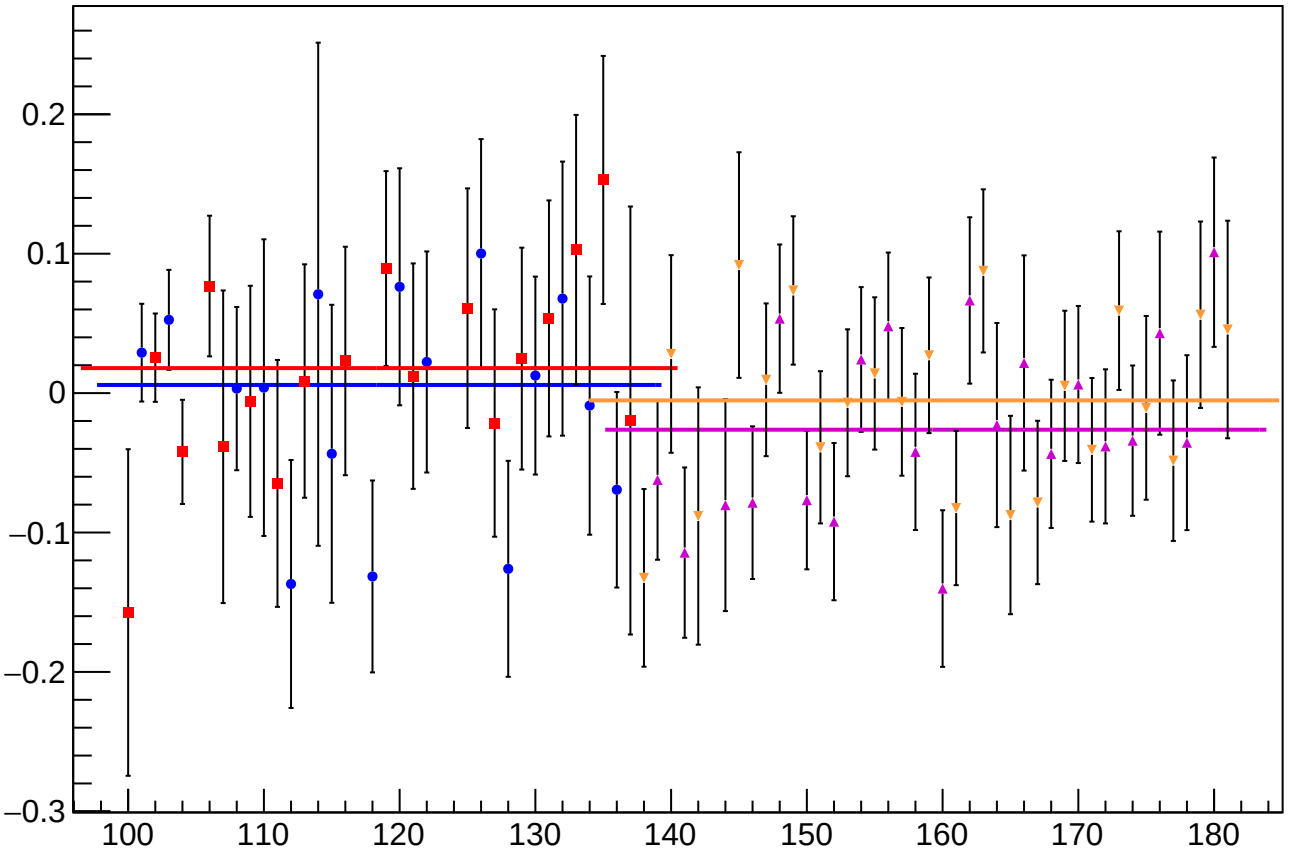
Left: 52.046+/-0.006 $\chi^2$/NDF: 800185.0/42

Right: 40.194+/-0.008 $\chi^2$/NDF: 3341542.4/33

In: 47.948+/-0.007 $\chi^2$/NDF:2358914.8/36

Out: 47.043+/-0.007 $\chi^2$/NDF:3106008.5/39

All: 47.487+/-0.005 $\chi^2$/NDF: 5473106.6/76




Right In: 0.006+/-0.017 $\chi^2$/NDF: 15.6/15

Left Out: -0.005+/-0.013 $\chi^2$/NDF:20.6/21

Right Out: 0.018+/-0.016 $\chi^2$/NDF: 12.3/17

Left In: -0.026+/-0.013 $\chi^2$/NDF:23.4/20

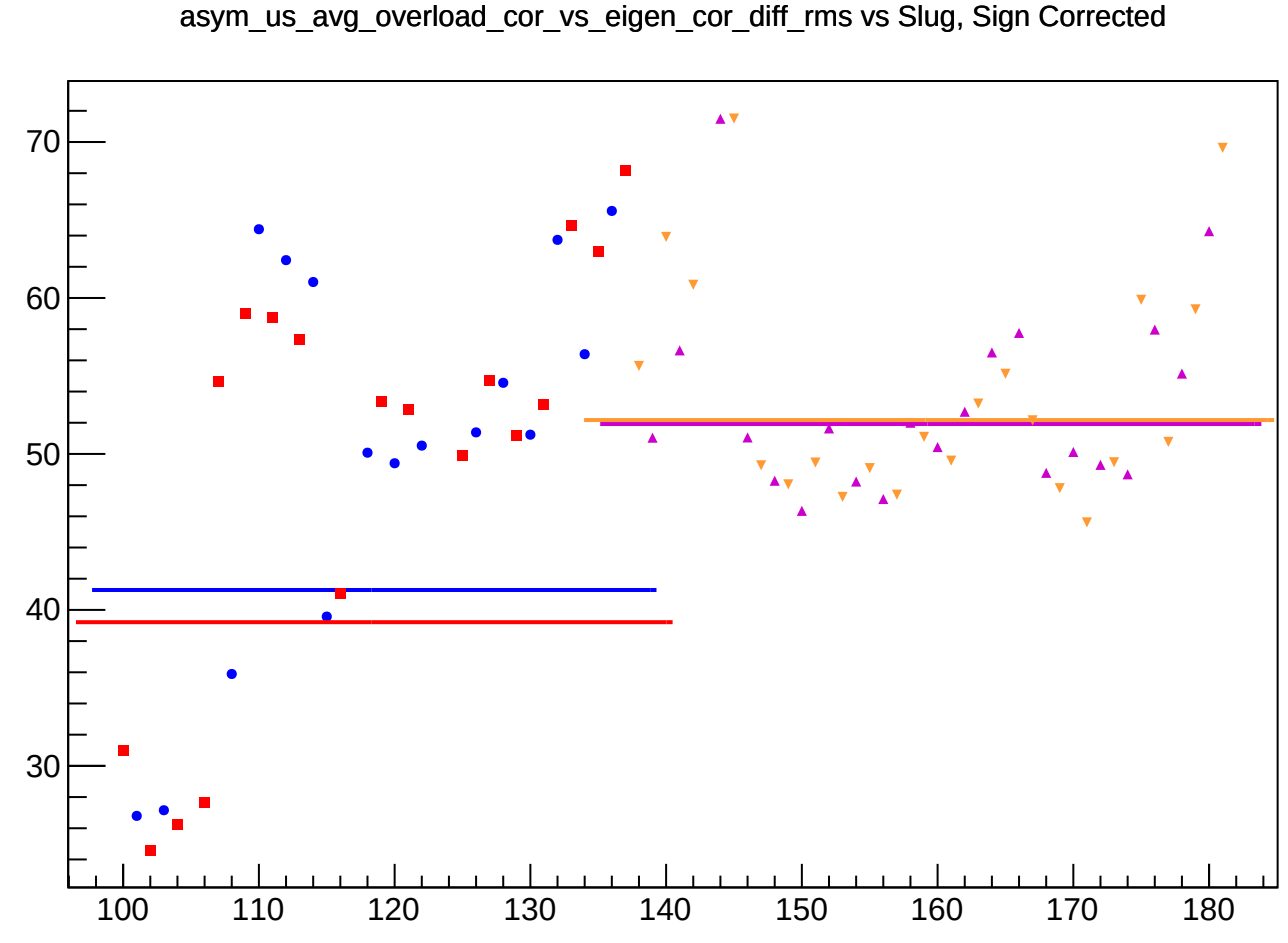
Left: -0.016+/-0.009 $\chi^2$/NDF: 45.3/42

Right: 0.012+/-0.011 $\chi^2$/NDF: 28.2/33

In: -0.014+/-0.010 $\chi^2$/NDF:41.3/36

Out: 0.004+/-0.010 $\chi^2$/NDF:34.2/39

All: -0.005+/-0.007 $\chi^2$/NDF: 77.2/76




Right In: 41.277+/-0.012 $\chi^2$/NDF: 1505245.8/15

Left Out: 52.173+/-0.009 $\chi^2$/NDF:466024.5/21

Right Out: 39.212+/-0.011 $\chi^2$/NDF: 1819921.9/17

Left In: 51.918+/-0.009 $\chi^2$/NDF:333760.7/20

Left: 52.046+/-0.006 $\chi^2$/NDF: 800185.0/42

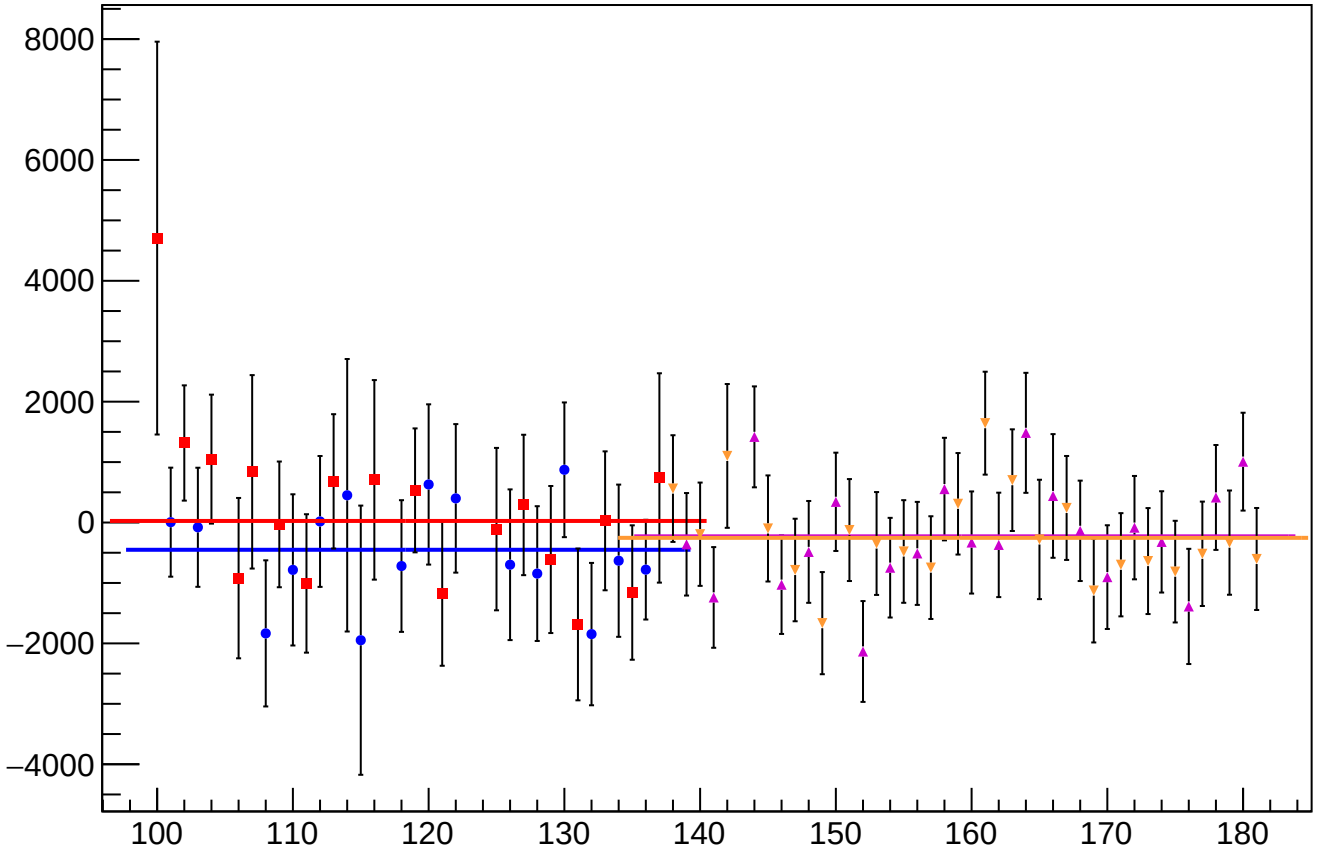
Right: 40.194+/-0.008 $\chi^2$/NDF: 3341542.4/33

In: 47.948+/-0.007 $\chi^2$/NDF:2358914.8/36

Out: 47.043+/-0.007 $\chi^2$/NDF:3106008.5/39

All: 47.487+/-0.005 $\chi^2$/NDF: 5473106.6/76

# reg_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -450.953+/-288.950 $\chi^2$/NDF: 6.9/15

Left Out: -253.465+/-185.319 $\chi^2$/NDF:15.1/21

Right Out: 26.099+/-288.079 $\chi^2$/NDF: 11.7/17

Left In: -228.494+/-186.918 $\chi^2$/NDF:22.0/20

Left: -241.087+/-131.602 $\chi^2$/NDF: 37.0/42

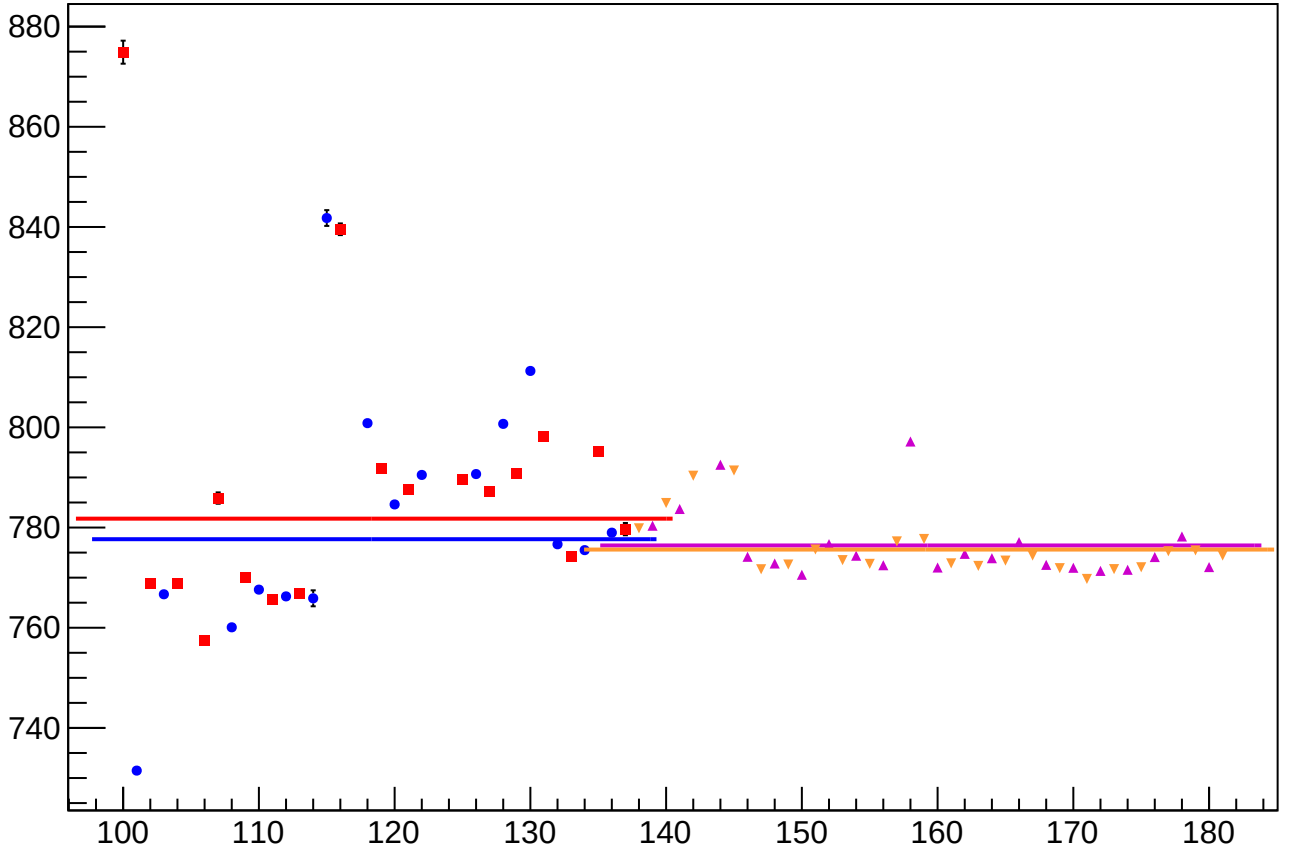
Right: -211.707+/-204.010 $\chi^2$/NDF: 20.0/33

In: -294.122+/-156.943 $\chi^2$/NDF:29.3/36

Out: -171.637+/-155.856 $\chi^2$/NDF:27.4/39

All: -232.454+/-110.589 $\chi^2$/NDF: 57.1/76

# reg_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 777.674+/-0.204 $\chi^2$/NDF: 12055.4/15

Left Out: 775.606+/-0.131 $\chi^2$/NDF:1634.7/21

Right Out: 781.777+/-0.204 $\chi^2$/NDF: 7626.3/17

Left In: 776.424+/-0.132 $\chi^2$/NDF:2734.5/20

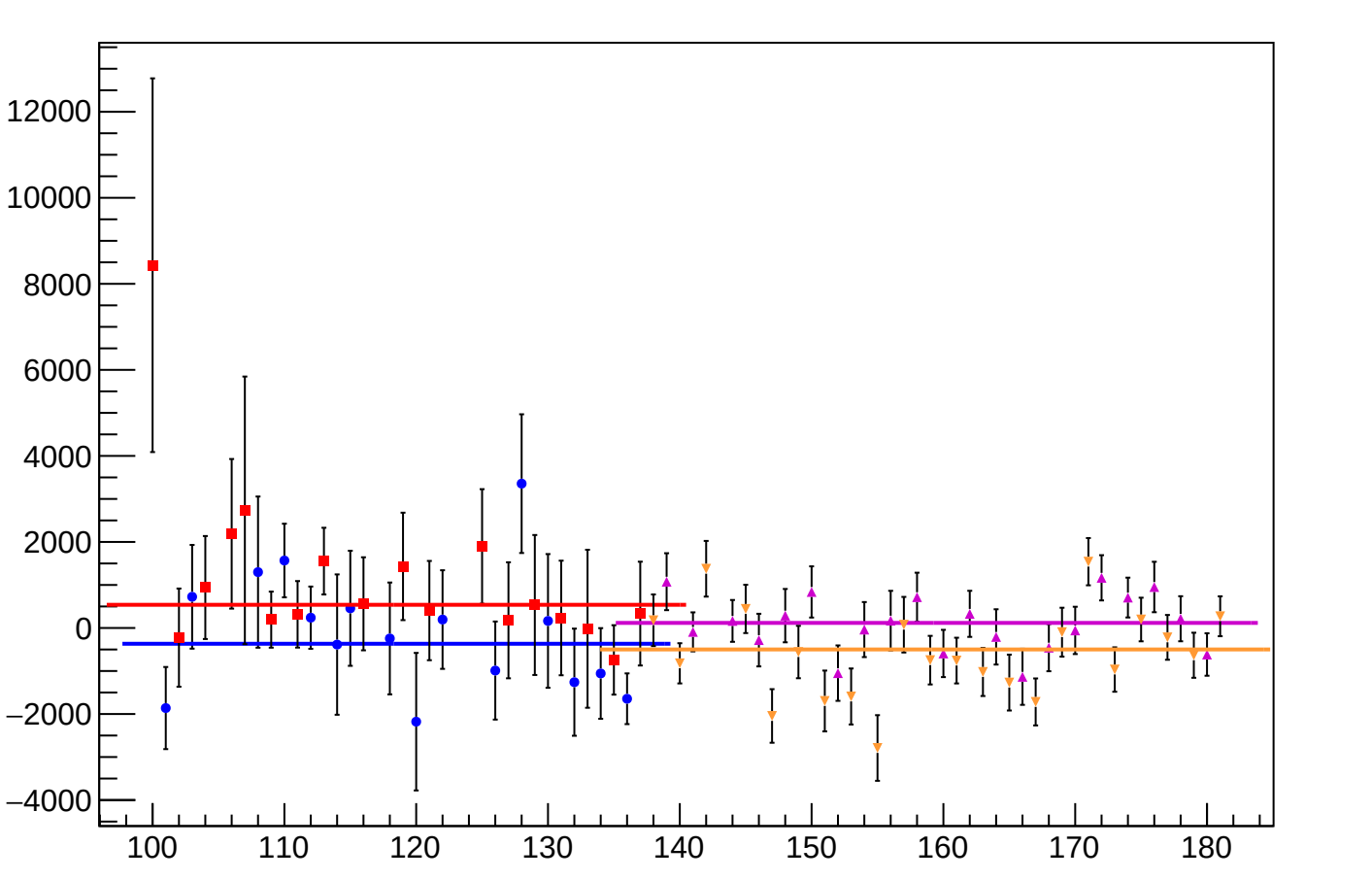
Left: 776.012+/-0.093 $\chi^2$/NDF: 4388.5/42

Right: 779.732+/-0.144 $\chi^2$/NDF: 19883.9/33

In: 776.793+/-0.111 $\chi^2$/NDF:14816.3/36

Out: 777.412+/-0.110 $\chi^2$/NDF:9910.0/39

All: 777.105+/-0.078 $\chi^2$/NDF: 24742.0/76




Right In: -367.008+/-266.698 $\chi^2$/NDF: 23.3/15

Left Out: -499.237+/-120.999 $\chi^2$/NDF:62.5/21

Right Out: 538.887+/-262.907 $\chi^2$/NDF: 11.7/17

Left In: 117.961+/-122.489 $\chi^2$/NDF:25.6/20

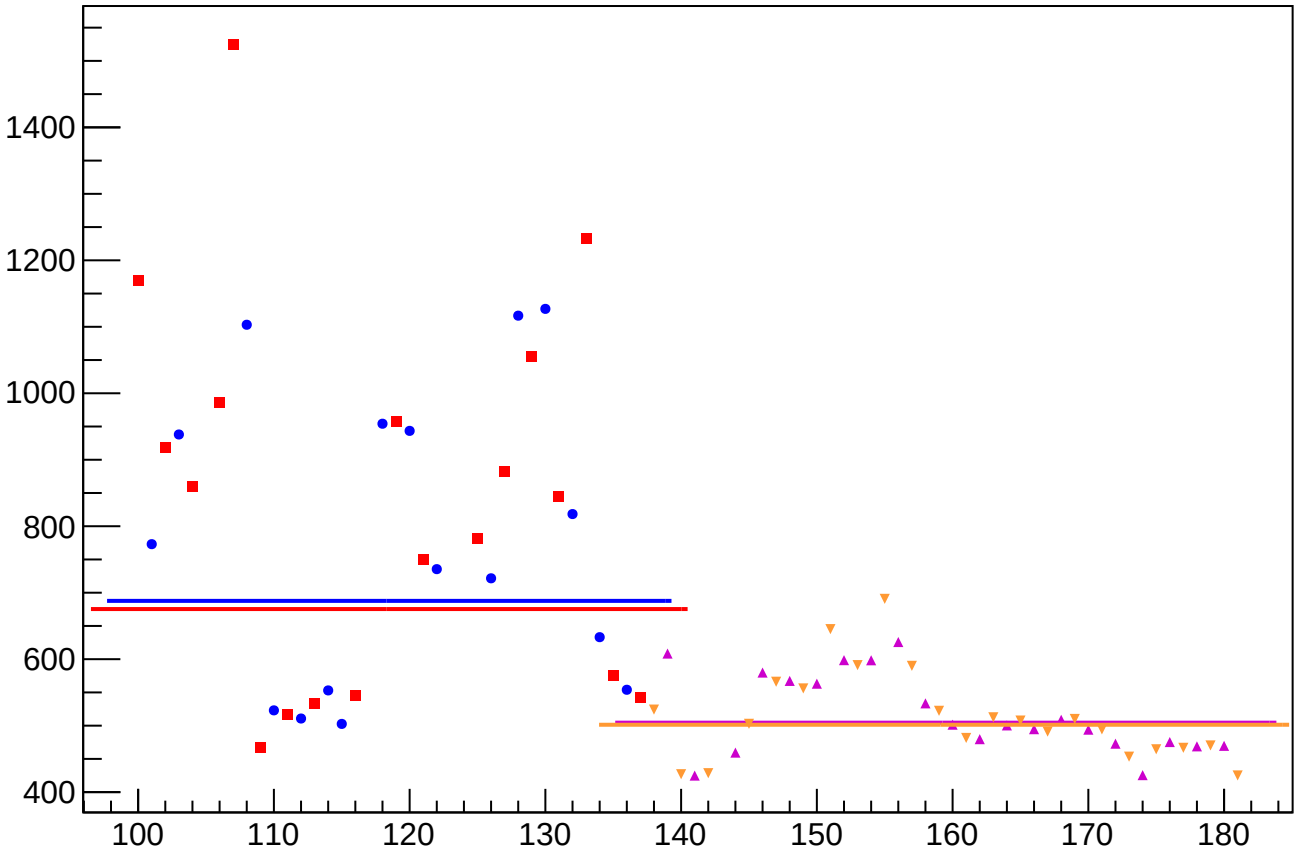
Left: -194.414+/-86.081 $\chi^2$/NDF: 100.9/42

Right: 92.424+/-187.229 $\chi^2$/NDF: 40.8/33

In: 33.482+/-111.311 $\chi^2$/NDF:51.6/36

Out: -317.780+/-109.917 $\chi^2$/NDF:87.0/39

All: -144.362+/-78.211 $\chi^2$/NDF: 143.7/76




Right In: 687.717+/-0.189 $\chi^2$/NDF: 1031906.6/15

Left Out: 501.368+/-0.086 $\chi^2$/NDF:504269.3/21

Right Out: 675.410+/-0.186 $\chi^2$/NDF: 1313004.6/17

Left In: 504.503+/-0.087 $\chi^2$/NDF:445923.4/20

Left: 502.916+/-0.061 $\chi^2$/NDF: 950855.7/42

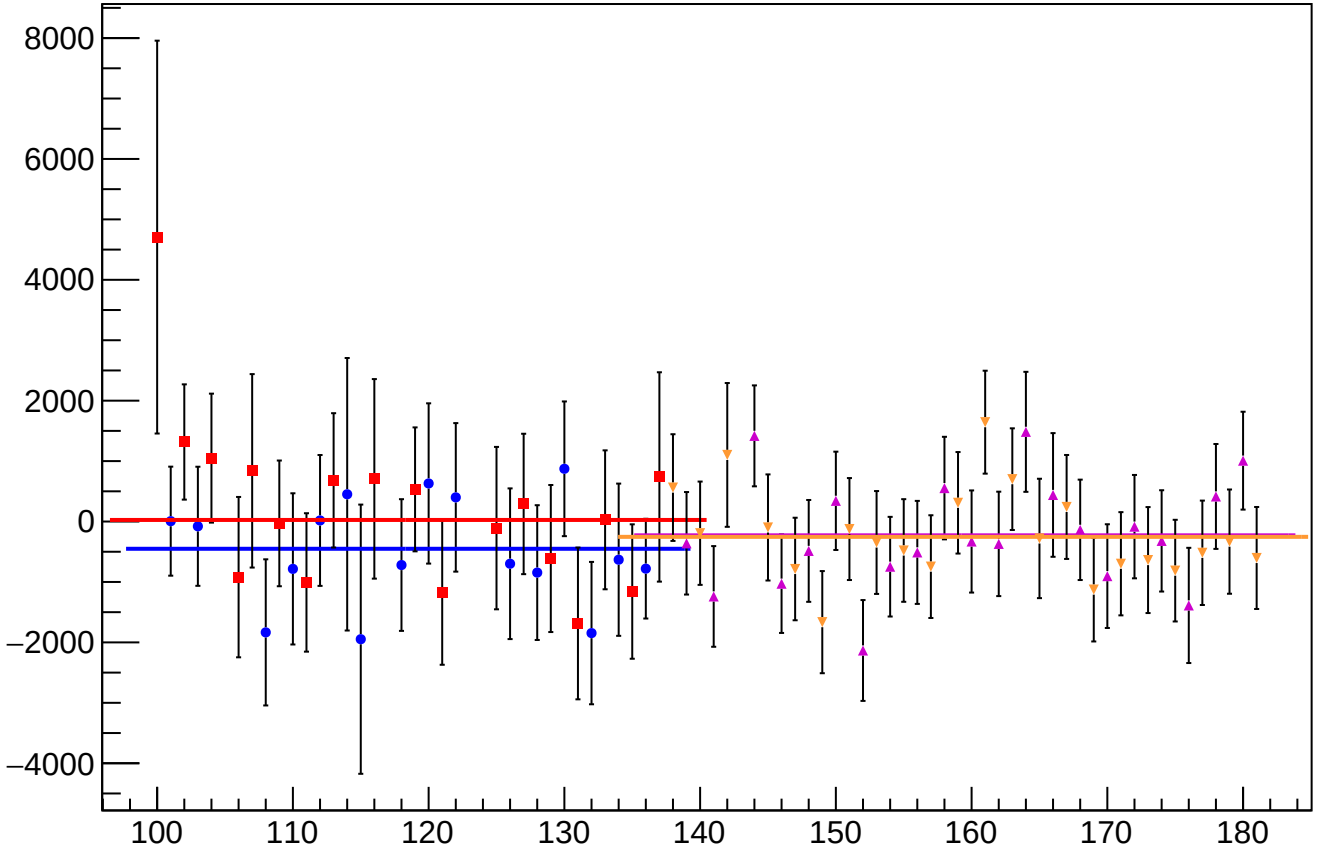
Right: 681.475+/-0.132 $\chi^2$/NDF: 2347071.2/33

In: 536.418+/-0.079 $\chi^2$/NDF:2257272.9/36

Out: 531.789+/-0.078 $\chi^2$/NDF:2540532.8/39

All: 534.074+/-0.055 $\chi^2$/NDF: 4799556.4/76

# cor_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -450.953+/-288.950 $\chi^2$/NDF: 6.9/15

Left Out: -253.465+/-185.319 $\chi^2$/NDF:15.1/21

Right Out: 26.099+/-288.079 $\chi^2$/NDF: 11.7/17

Left In: -228.494+/-186.918 $\chi^2$/NDF:22.0/20

Left: -241.087+/-131.602 $\chi^2$/NDF: 37.0/42

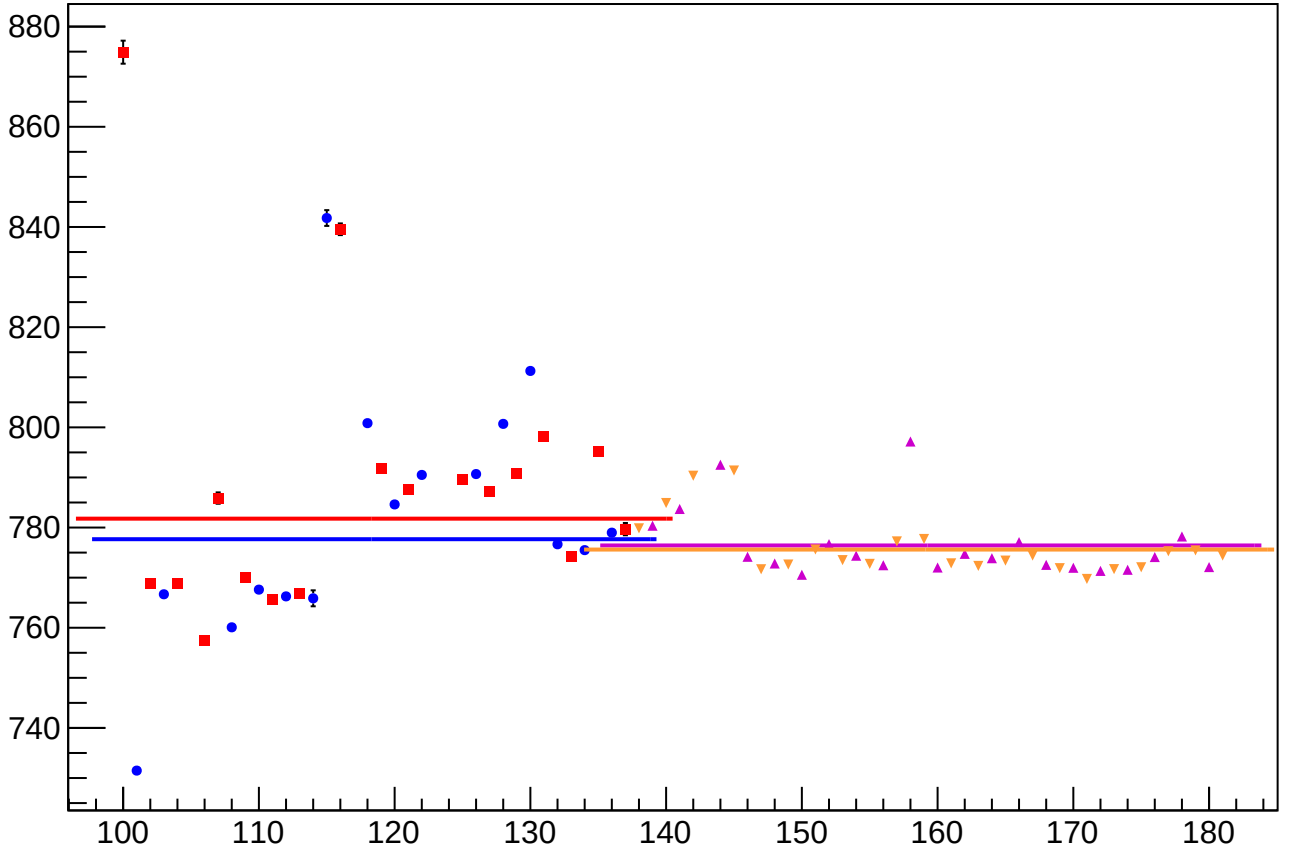
Right: -211.707+/-204.010 $\chi^2$/NDF: 20.0/33

In: -294.122+/-156.943 $\chi^2$/NDF:29.3/36

Out: -171.637+/-155.856 $\chi^2$/NDF:27.4/39

All: -232.454+/-110.589 $\chi^2$/NDF: 57.1/76

# cor_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 777.674+/-0.204 $\chi^2$/NDF: 12055.4/15

Left Out: 775.606+/-0.131 $\chi^2$/NDF:1634.7/21

Right Out: 781.777+/-0.204 $\chi^2$/NDF: 7626.3/17

Left In: 776.424+/-0.132 $\chi^2$/NDF:2734.5/20

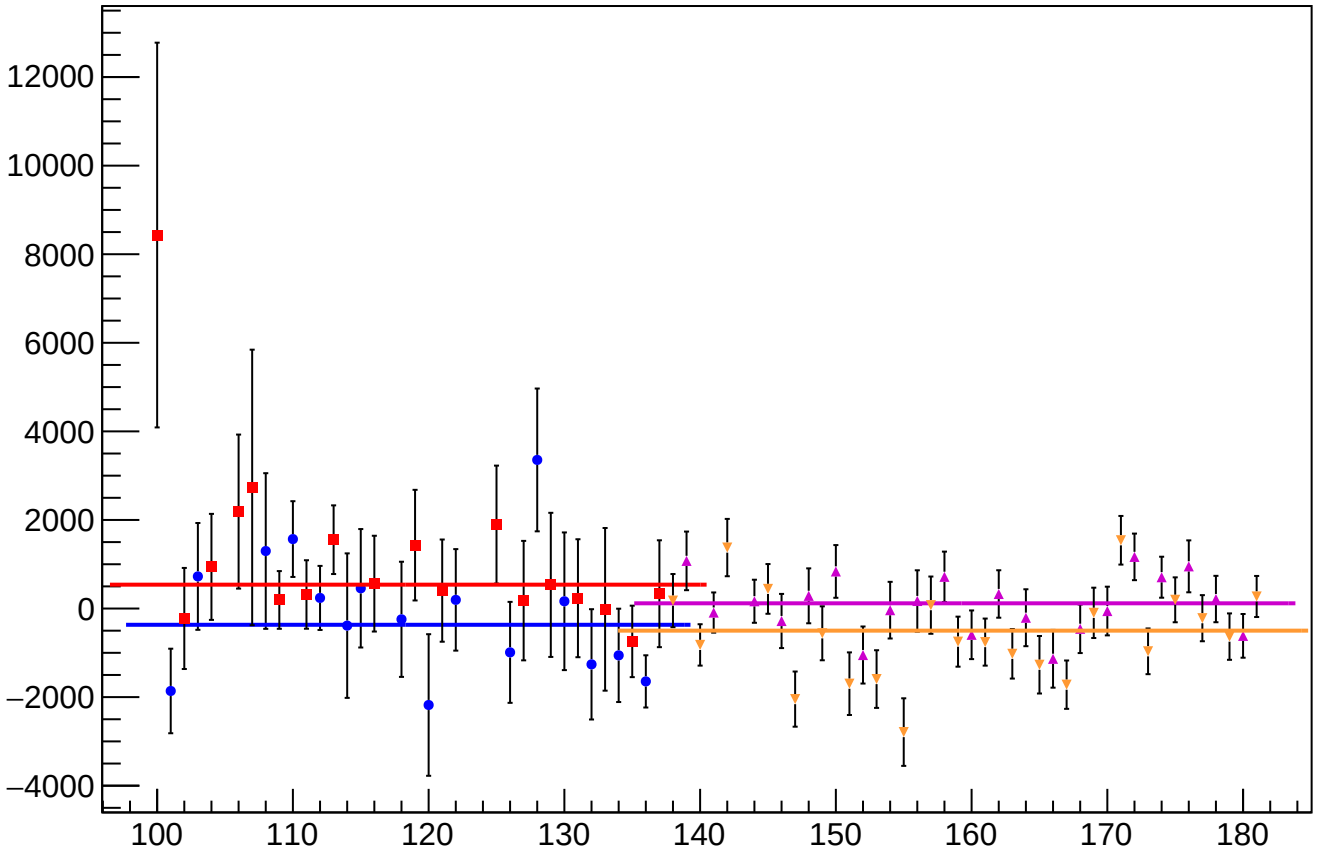
Left: 776.012+/-0.093 $\chi^2$/NDF: 4388.5/42

Right: 779.732+/-0.144 $\chi^2$/NDF: 19883.9/33

In: 776.793+/-0.111 $\chi^2$/NDF:14816.3/36

Out: 777.412+/-0.110 $\chi^2$/NDF:9910.0/39

All: 777.105+/-0.078 $\chi^2$/NDF: 24742.0/76




Right In: -367.008+/-266.698 $\chi^2$/NDF: 23.3/15

Left Out: -499.237+/-120.999 $\chi^2$/NDF:62.5/21

Right Out: 538.887+/-262.907 $\chi^2$/NDF: 11.7/17

Left In: 117.961+/-122.489 $\chi^2$/NDF:25.6/20

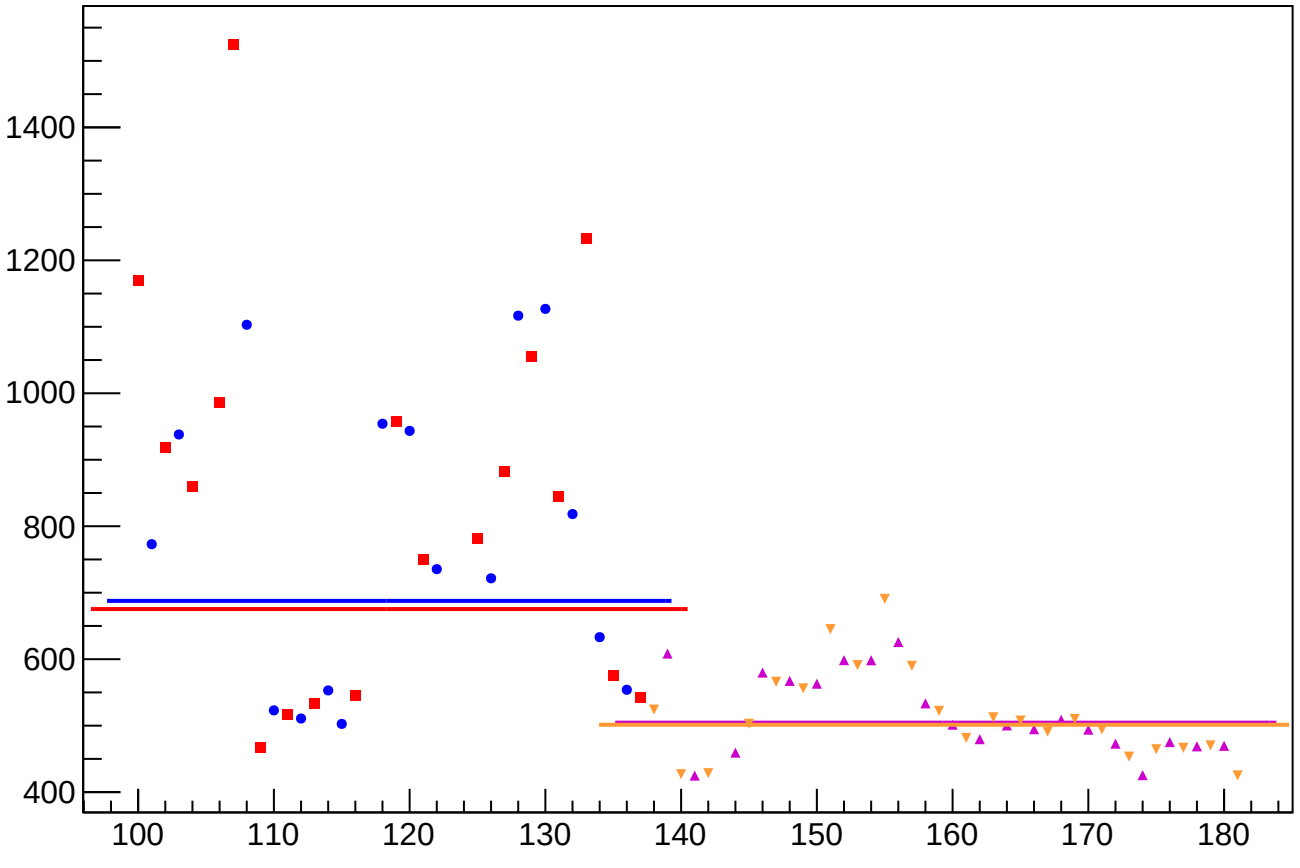
Left: -194.414+/-86.081 $\chi^2$/NDF: 100.9/42

Right: 92.424+/-187.229 $\chi^2$/NDF: 40.8/33

In: 33.482+/-111.311 $\chi^2$/NDF:51.6/36

Out: -317.780+/-109.917 $\chi^2$/NDF:87.0/39

All: -144.362+/-78.211 $\chi^2$/NDF: 143.7/76




Right In: 687.717+/-0.189 $\chi^2$/NDF: 1031906.6/15

Left Out: 501.368+/-0.086 $\chi^2$/NDF:504269.3/21

Right Out: 675.410+/-0.186 $\chi^2$/NDF: 1313004.6/17

Left In: 504.503+/-0.087 $\chi^2$/NDF:445923.4/20

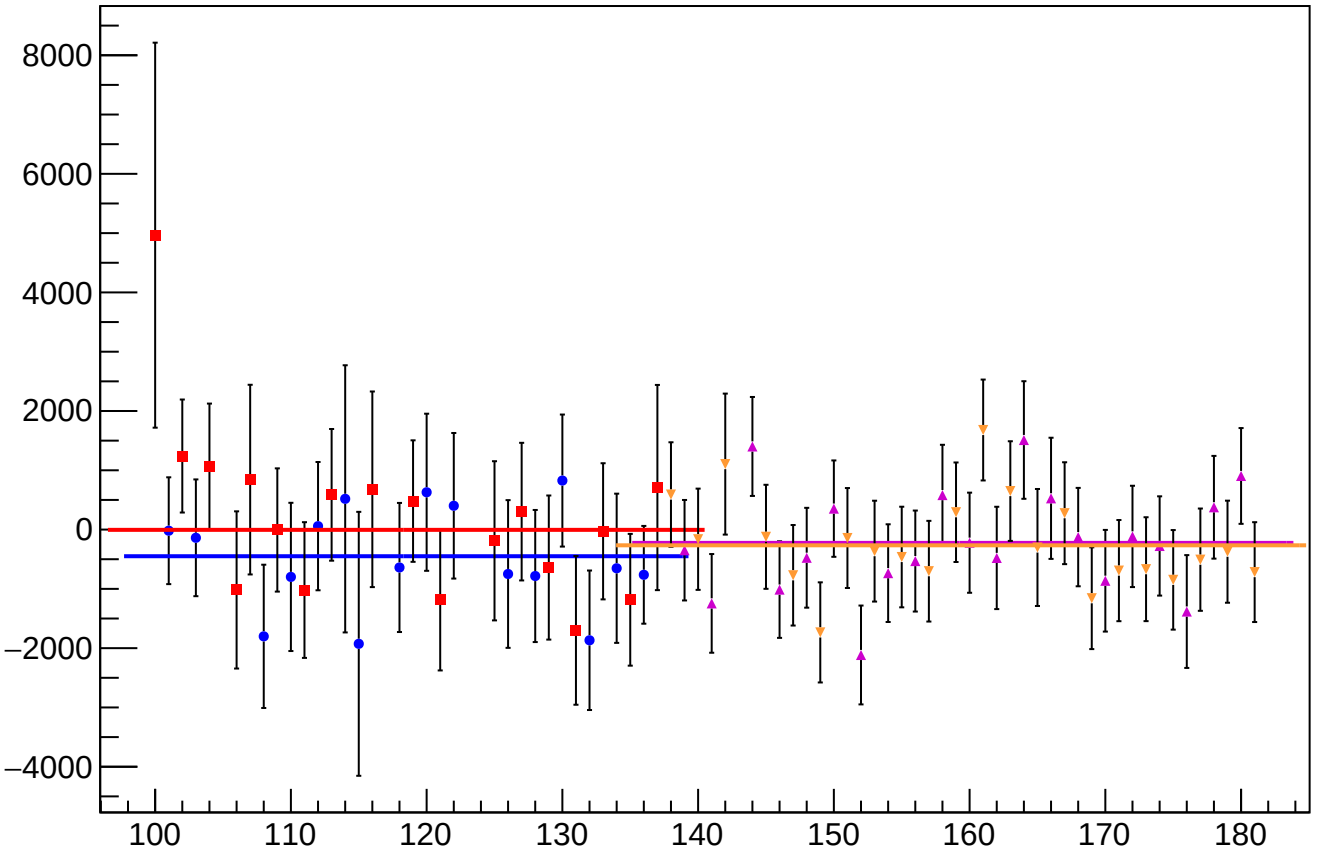
Left: 502.916+/-0.061 $\chi^2$/NDF: 950855.7/42

Right: 681.475+/-0.132 $\chi^2$/NDF: 2347071.2/33

In: 536.418+/-0.079 $\chi^2$/NDF:2257272.9/36

Out: 531.789+/-0.078 $\chi^2$/NDF:2540532.8/39

All: 534.074+/-0.055 $\chi^2$/NDF: 4799556.4/76




Right In: -449.430+/-288.668 $\chi^2$/NDF: 6.8/15

Left Out: -265.298+/-185.117 $\chi^2$/NDF:15.7/21

Right Out: -4.645+/-287.815 $\chi^2$/NDF: 11.8/17

Left In: -224.511+/-186.716 $\chi^2$/NDF:21.6/20

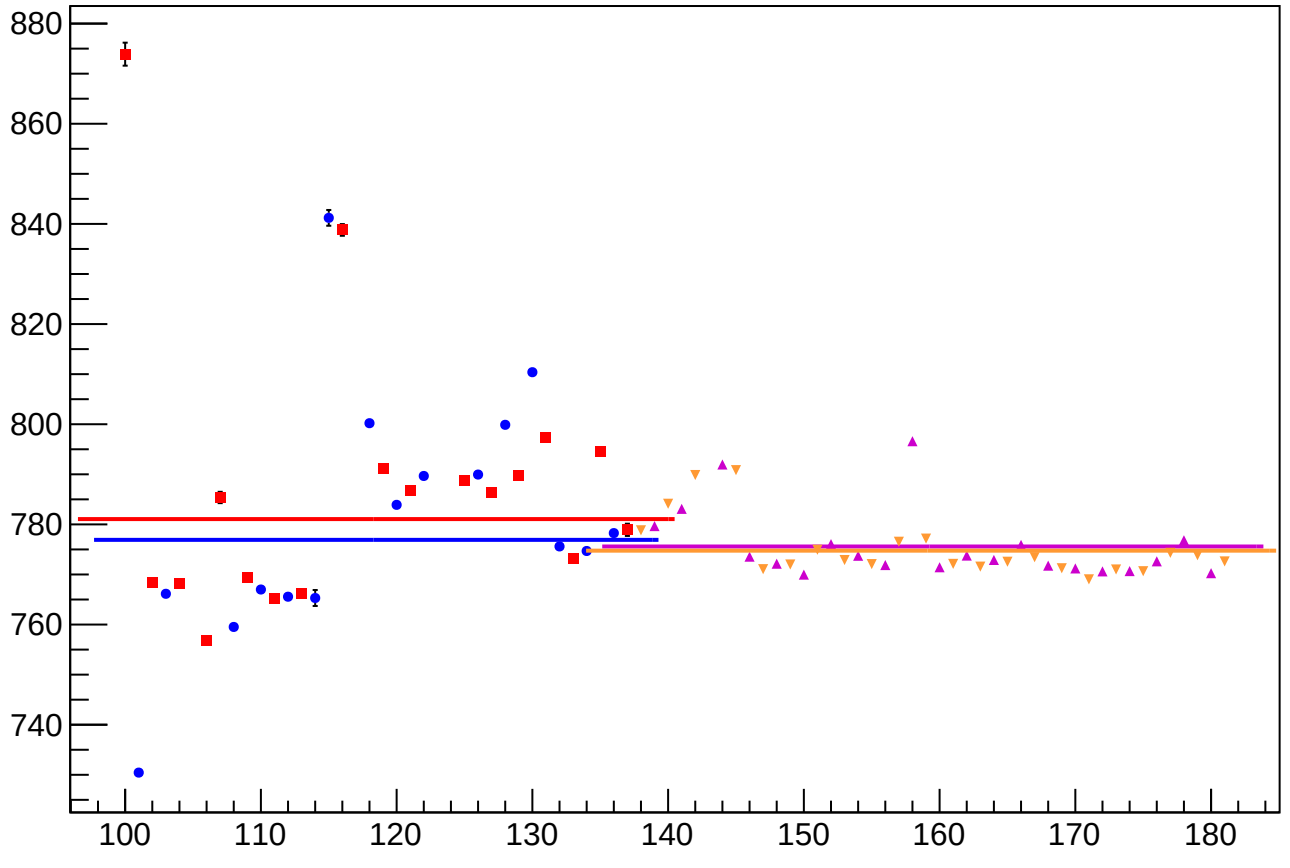
Left: -245.080+/-131.459 $\chi^2$/NDF: 37.3/42

Right: -226.380+/-203.817 $\chi^2$/NDF: 19.8/33

In: -290.855+/-156.778 $\chi^2$/NDF:28.8/36

Out: -189.025+/-155.693 $\chi^2$/NDF:28.1/39

All: -239.586+/-110.473 $\chi^2$/NDF: 57.1/76




Right In: 776.913+/-0.204 $\chi^2$/NDF: 12123.6/15

Left Out: 774.757+/-0.131 $\chi^2$/NDF:1678.5/21

Right Out: 781.061+/-0.204 $\chi^2$/NDF: 7585.8/17

Left In: 775.587+/-0.132 $\chi^2$/NDF:2811.5/20

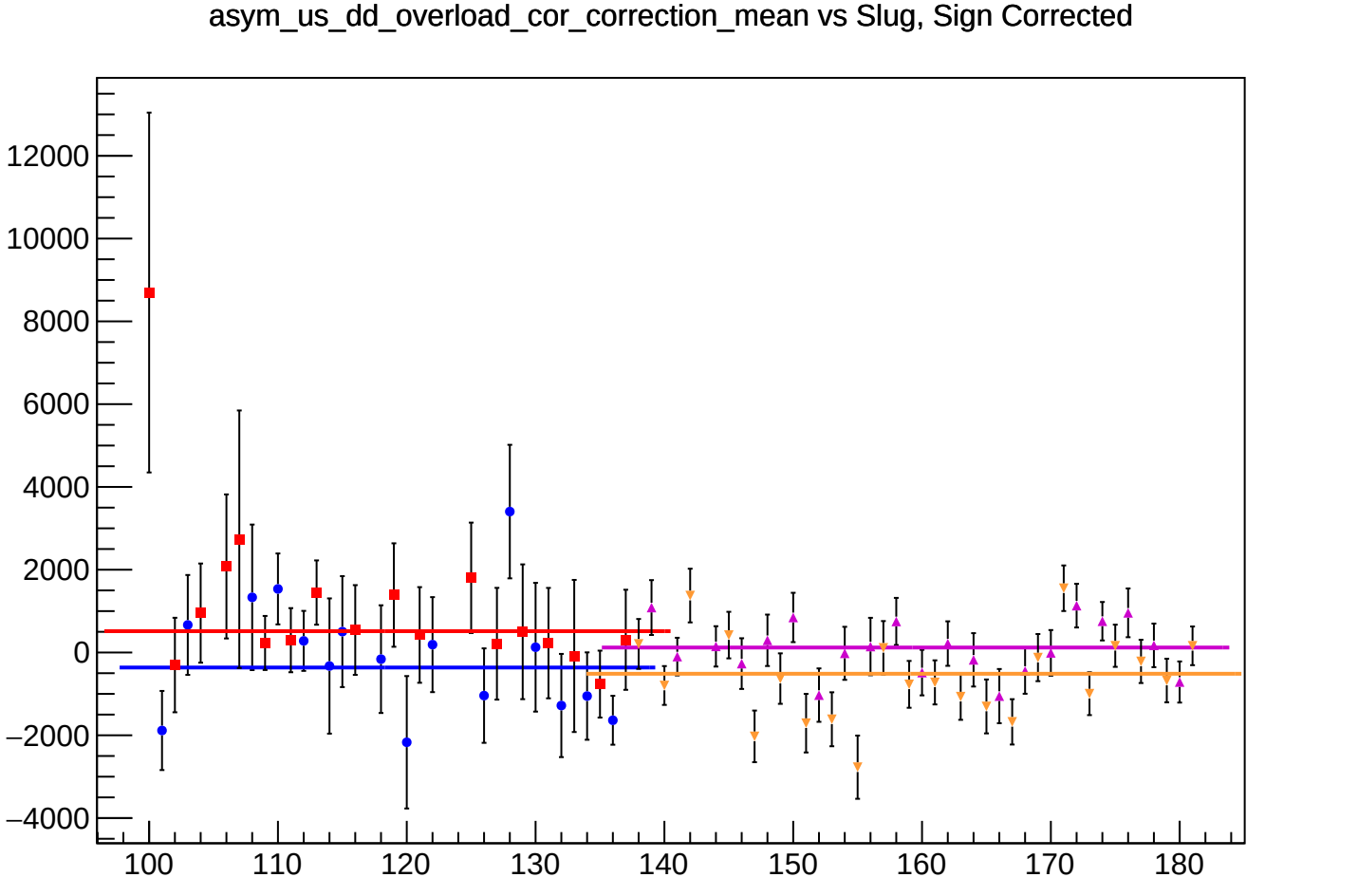
Left: 775.168+/-0.093 $\chi^2$/NDF: 4509.9/42

Right: 778.993+/-0.144 $\chi^2$/NDF: 19916.4/33

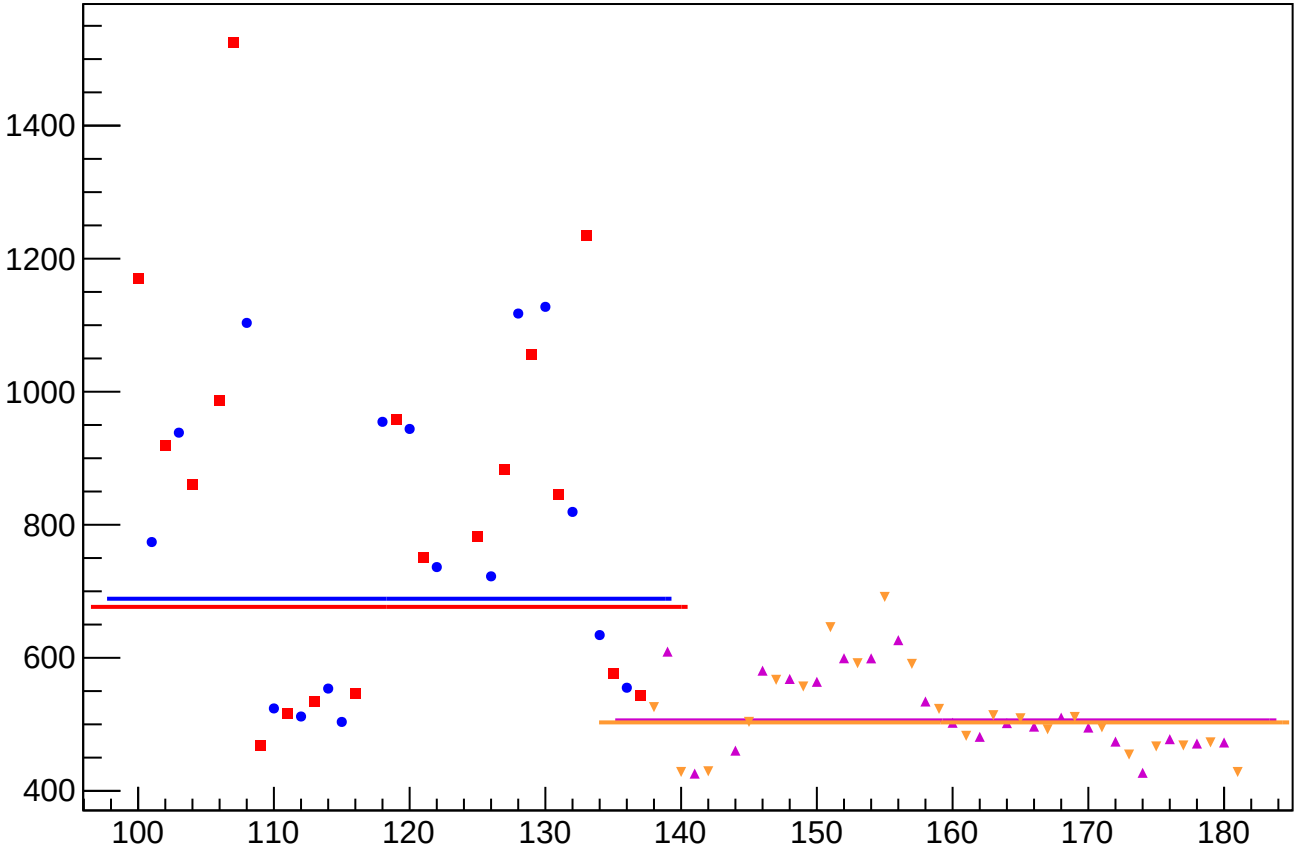
In: 775.978+/-0.111 $\chi^2$/NDF:14964.8/36

Out: 776.602+/-0.110 $\chi^2$/NDF:9943.0/39

All: 776.292+/-0.078 $\chi^2$/NDF: 24923.8/76


asym_us_dd_overload_cor_correction_mean vs Slug, Sign Corrected
12000
10000
8000
6000
4000
2000
0
−2000
−4000
100
110
120
130
140
150
160
170
180
Right In: -362.811+/-267.086 χ²/NDF: 23.4/15
Left Out: -513.679+/-121.359 χ²/NDF:61.3/21
Right Out: 515.295+/-263.302 χ²/NDF: 11.4/17
Left In: 120.003+/-122.834 χ²/NDF:25.0/20
Left: -200.666+/-86.331 χ²/NDF: 99.7/42
Right: 82.506+/-187.506 χ²/NDF: 40.2/33
In: 35.710+/-111.598 χ²/NDF:51.0/36
Out: -333.385+/-110.216 χ²/NDF:85.3/39
All: -151.137+/-78.418 χ²/NDF: 141.9/76

asym_us_dd_overload_cor_correction_rms vs Slug, Sign Corrected




Right In: 688.828+/-0.189 $\chi^2$/NDF: 1028118.5/15

Left Out: 502.938+/-0.086 $\chi^2$/NDF:495292.8/21

Right Out: 676.572+/-0.186 $\chi^2$/NDF: 1308036.1/17

Left In: 505.983+/-0.087 $\chi^2$/NDF:439271.0/20

Left: 504.442+/-0.061 $\chi^2$/NDF: 935185.8/42

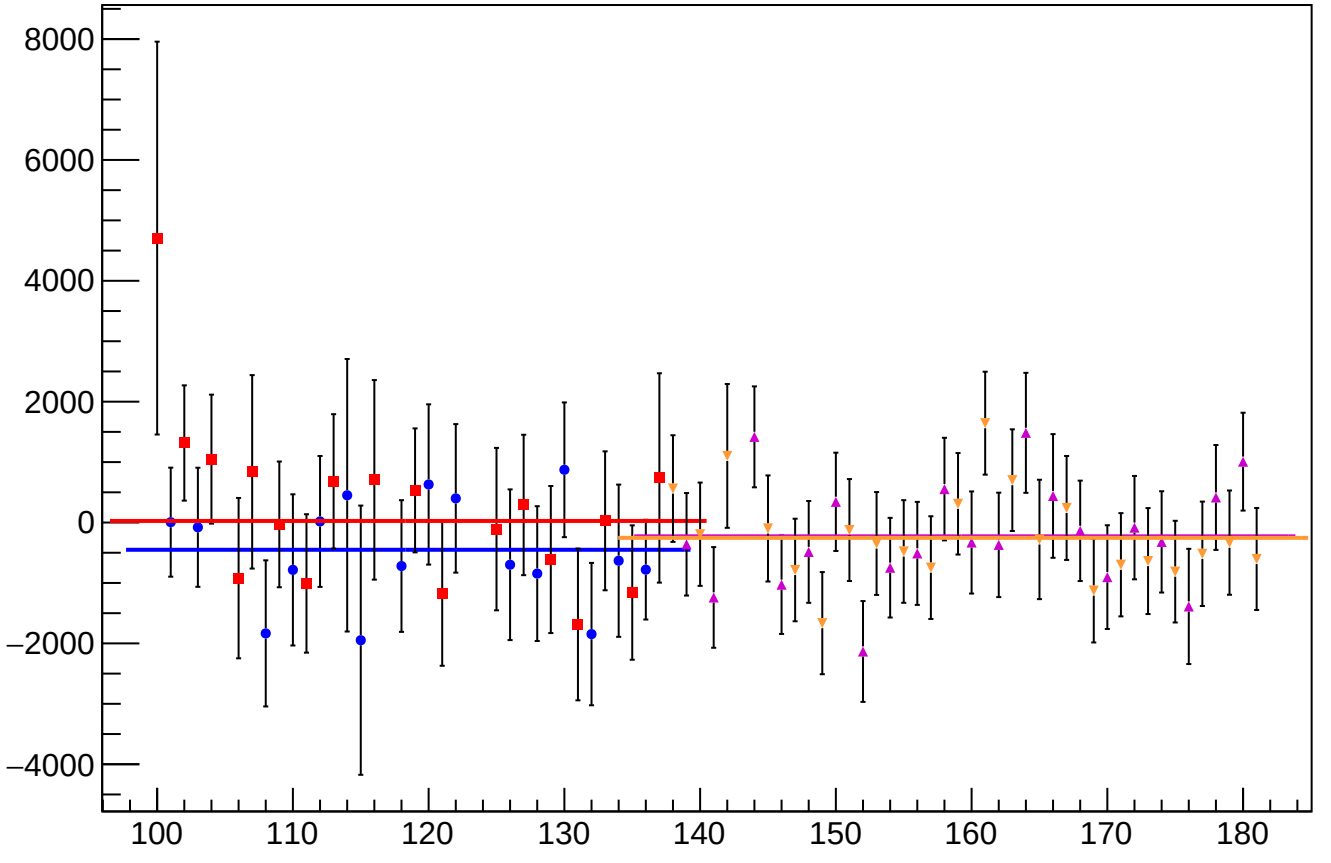
Right: 682.613+/-0.133 $\chi^2$/NDF: 2338290.5/33

In: 537.905+/-0.079 $\chi^2$/NDF:2241087.3/36

Out: 533.361+/-0.078 $\chi^2$/NDF:2520682.3/39

All: 535.605+/-0.055 $\chi^2$/NDF: 4763447.9/76

# eigen_cor_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -450.953+/-288.950 $\chi^2$/NDF: 6.9/15

Left Out: -253.465+/-185.319 $\chi^2$/NDF:15.1/21

Right Out: 26.099+/-288.079 $\chi^2$/NDF: 11.7/17

Left In: -228.494+/-186.918 $\chi^2$/NDF:22.0/20

Left: -241.087+/-131.602 $\chi^2$/NDF: 37.0/42

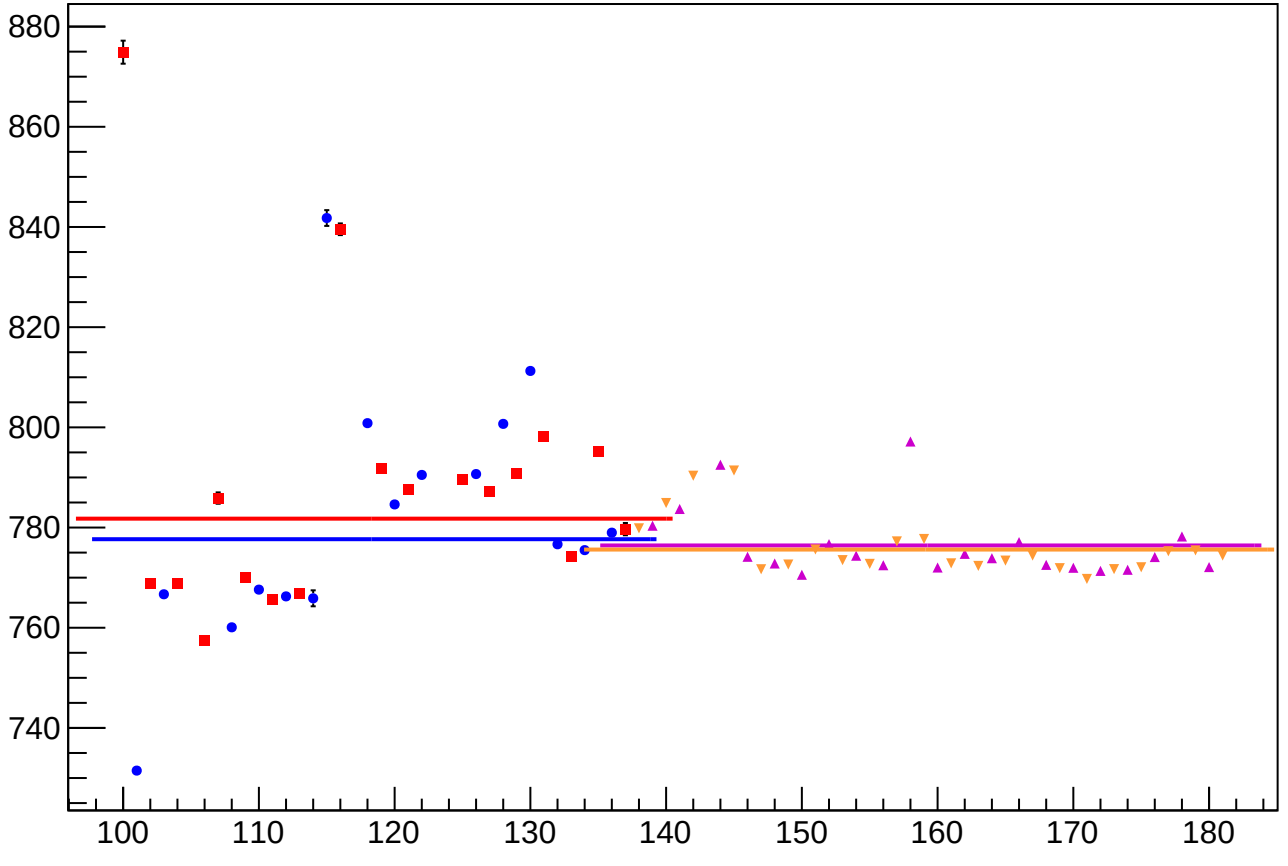
Right: -211.707+/-204.010 $\chi^2$/NDF: 20.0/33

In: -294.122+/-156.943 $\chi^2$/NDF:29.3/36

Out: -171.637+/-155.856 $\chi^2$/NDF:27.4/39

All: -232.454+/-110.589 $\chi^2$/NDF: 57.1/76

# eigen_cor_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 777.674+/-0.204 $\chi^2$/NDF: 12055.4/15

Left Out: 775.606+/-0.131 $\chi^2$/NDF:1634.7/21

Right Out: 781.777+/-0.204 $\chi^2$/NDF: 7626.3/17

Left In: 776.424+/-0.132 $\chi^2$/NDF:2734.5/20

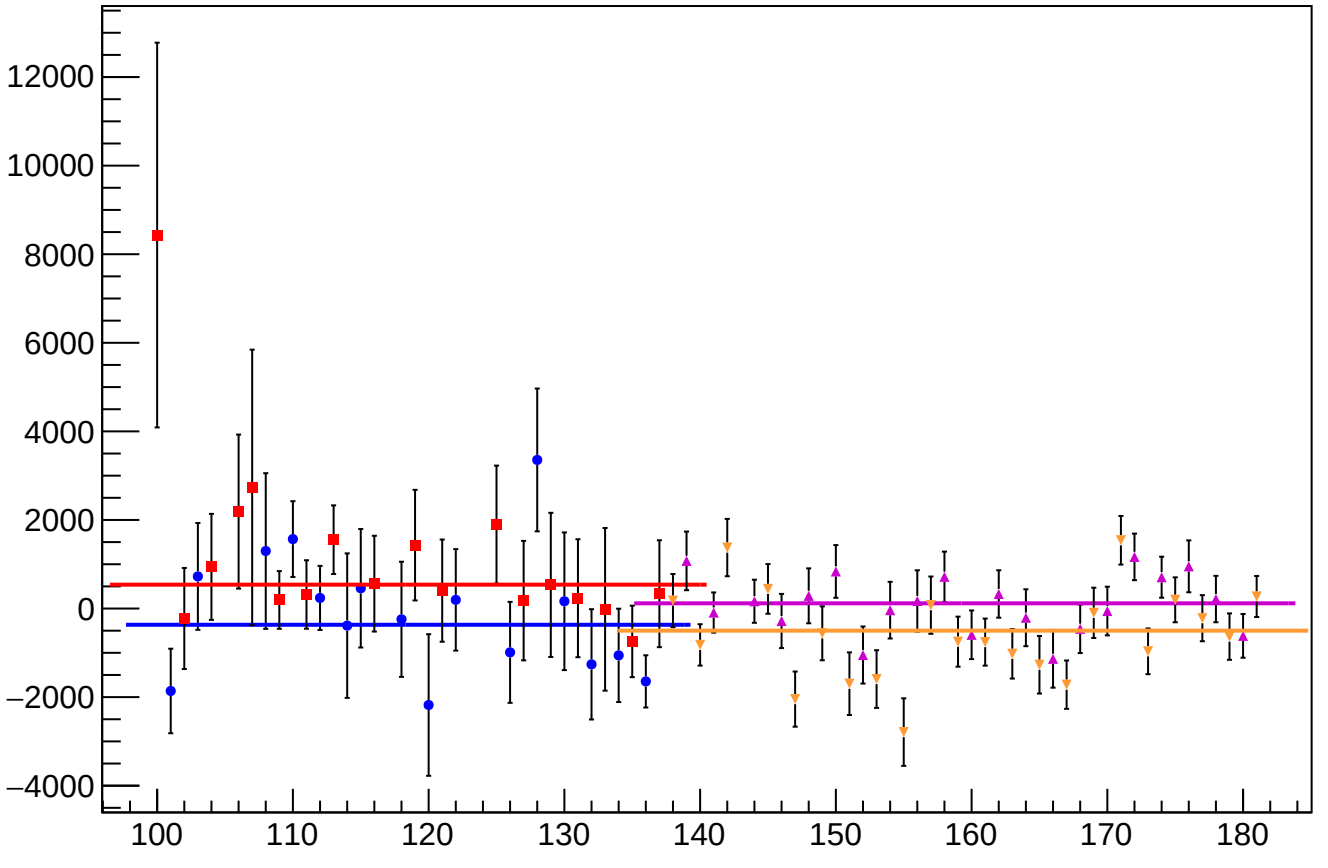
Left: 776.012+/-0.093 $\chi^2$/NDF: 4388.5/42

Right: 779.732+/-0.144 $\chi^2$/NDF: 19883.9/33

In: 776.793+/-0.111 $\chi^2$/NDF:14816.3/36

Out: 777.412+/-0.110 $\chi^2$/NDF:9910.0/39

All: 777.105+/-0.078 $\chi^2$/NDF: 24742.0/76




Right In: -367.008+/-266.698 $\chi^2$/NDF: 23.3/15

Left Out: -499.237+/-120.999 $\chi^2$/NDF:62.5/21

Right Out: 538.887+/-262.907 $\chi^2$/NDF: 11.7/17

Left In: 117.961+/-122.489 $\chi^2$/NDF:25.6/20

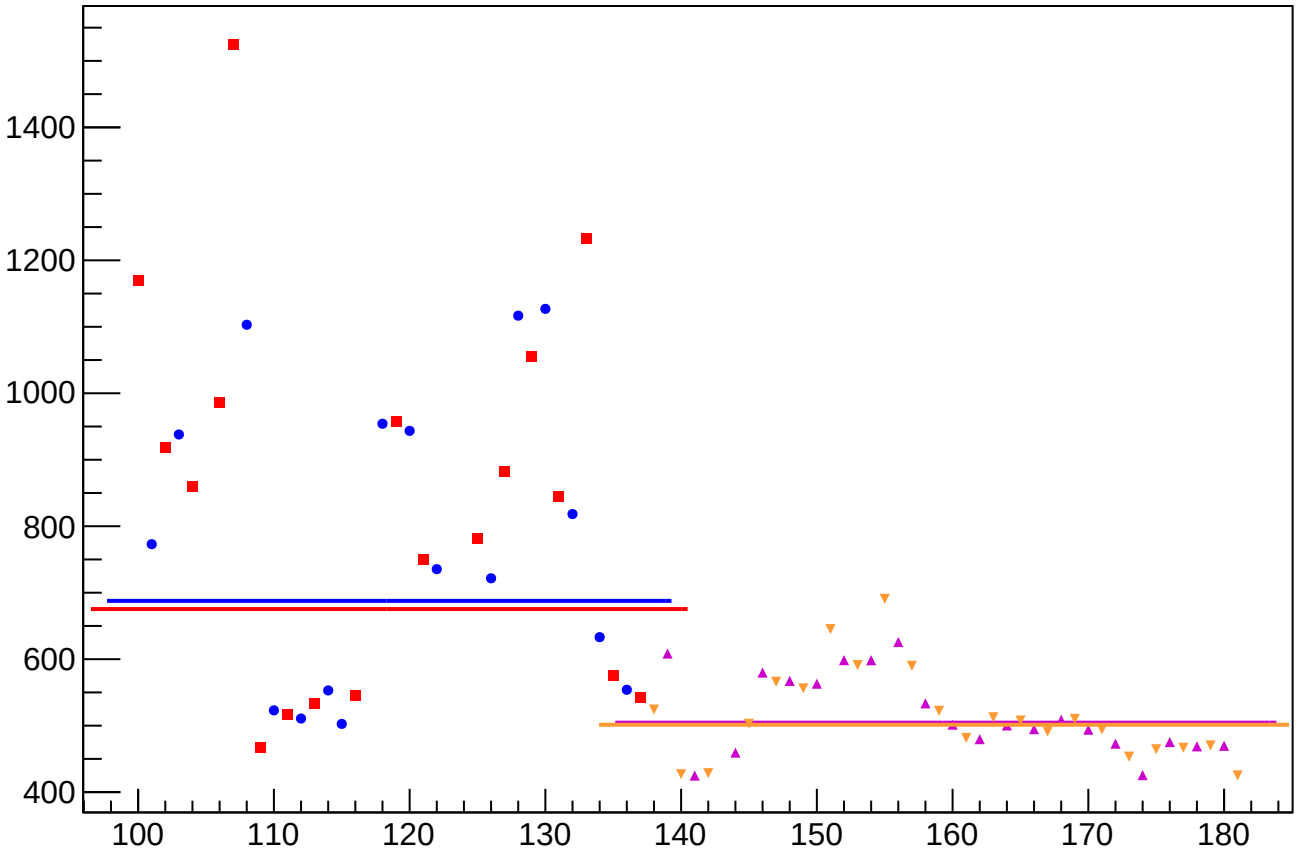
Left: -194.414+/-86.081 $\chi^2$/NDF: 100.9/42

Right: 92.424+/-187.229 $\chi^2$/NDF: 40.8/33

In: 33.482+/-111.311 $\chi^2$/NDF:51.6/36

Out: -317.780+/-109.917 $\chi^2$/NDF:87.0/39

All: -144.362+/-78.211 $\chi^2$/NDF: 143.7/76




Right In: 687.717+/-0.189 $\chi^2$/NDF: 1031906.6/15

Left Out: 501.368+/-0.086 $\chi^2$/NDF:504269.3/21

Right Out: 675.410+/-0.186 $\chi^2$/NDF: 1313004.6/17

Left In: 504.503+/-0.087 $\chi^2$/NDF:445923.4/20

Left: 502.916+/-0.061 $\chi^2$/NDF: 950855.7/42

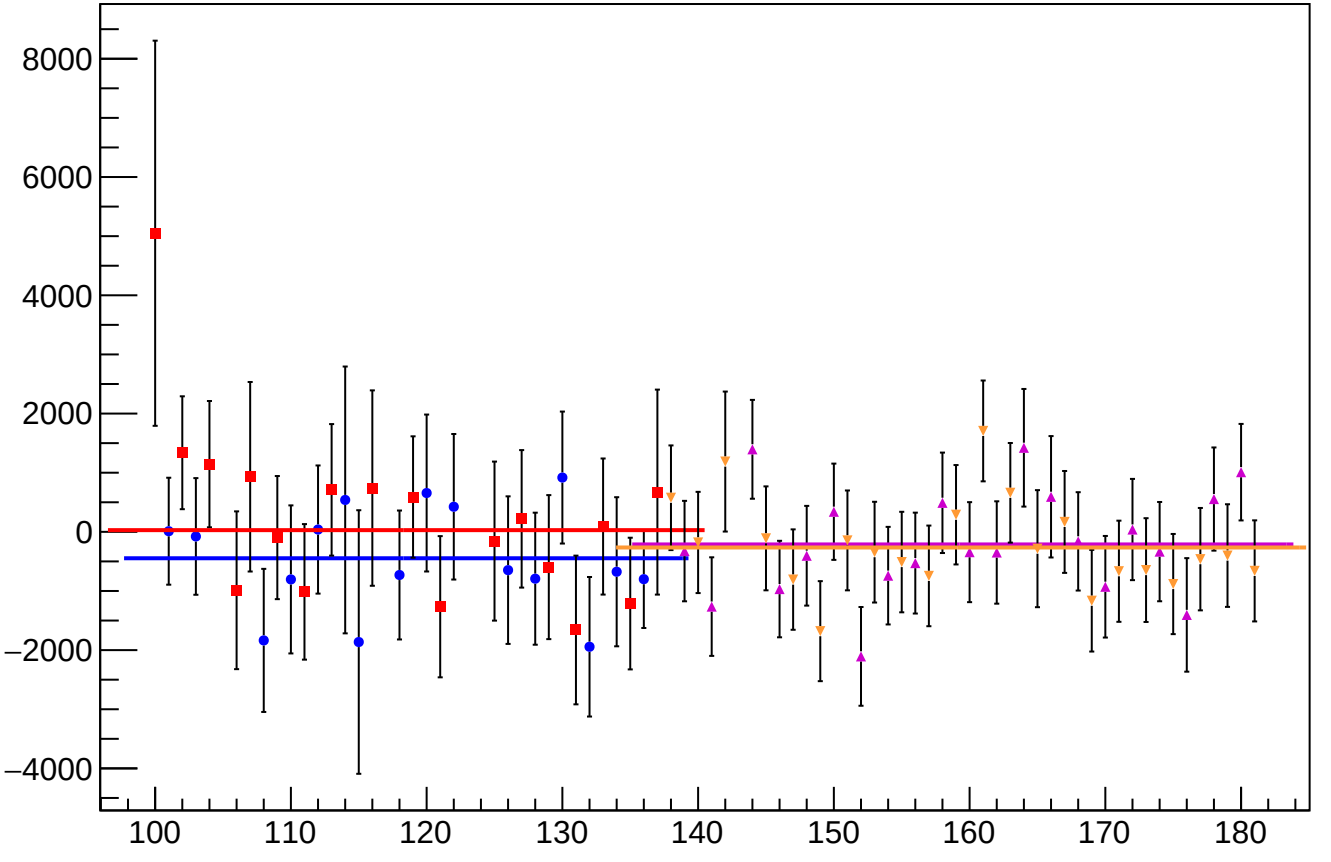
Right: 681.475+/-0.132 $\chi^2$/NDF: 2347071.2/33

In: 536.418+/-0.079 $\chi^2$/NDF:2257272.9/36

Out: 531.789+/-0.078 $\chi^2$/NDF:2540532.8/39

All: 534.074+/-0.055 $\chi^2$/NDF: 4799556.4/76

# dit_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -446.659+/-289.238 $\chi^2$/NDF: 7.3/15

Left Out: -264.554+/-185.694 $\chi^2$/NDF:15.7/21

Right Out: 28.787+/-288.372 $\chi^2$/NDF: 12.6/17

Left In: -212.996+/-187.248 $\chi^2$/NDF:21.8/20

Left: -238.990+/-131.852 $\chi^2$/NDF: 37.5/42

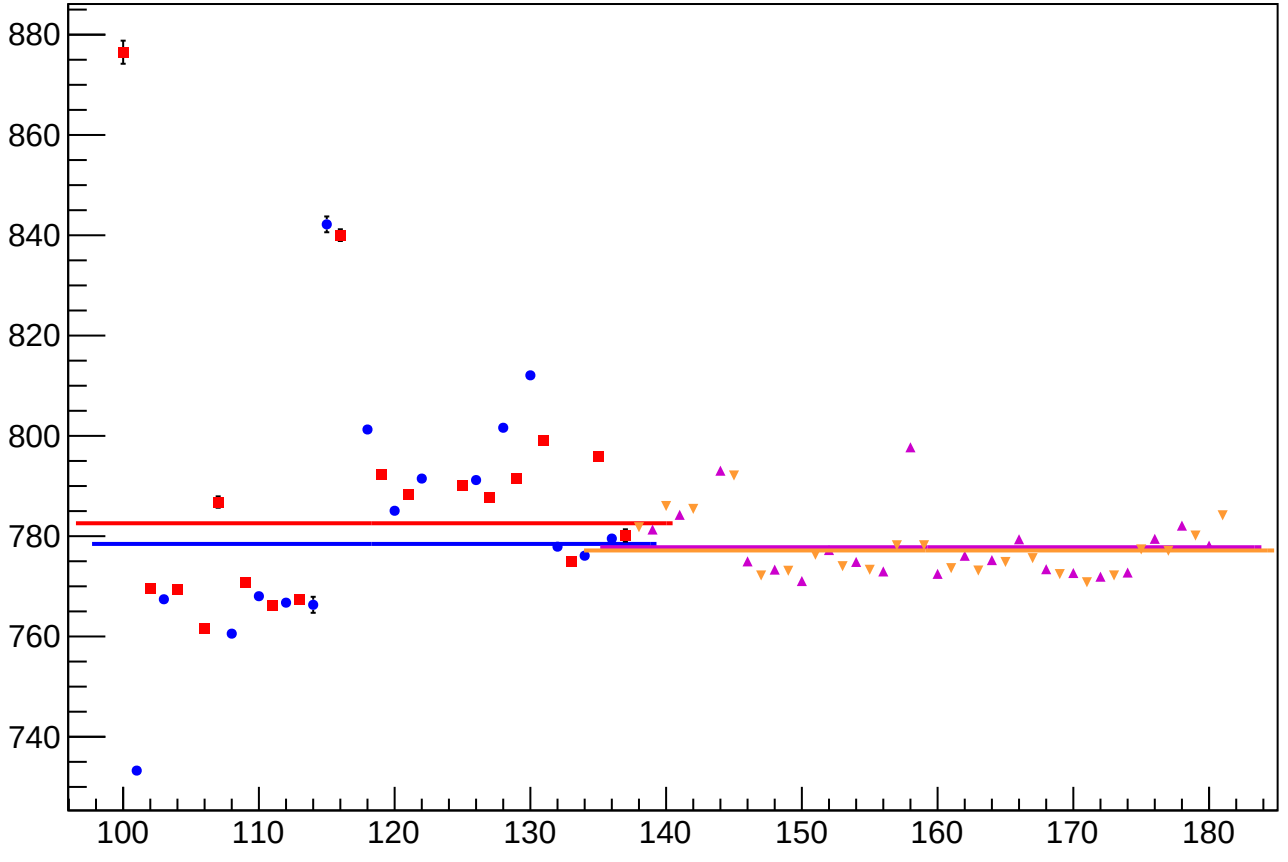
Right: -208.223+/-204.216 $\chi^2$/NDF: 21.3/33

In: -282.004+/-157.185 $\chi^2$/NDF:29.5/36

Out: -178.572+/-156.125 $\chi^2$/NDF:29.0/39

All: -229.938+/-110.770 $\chi^2$/NDF: 58.8/76

# dit_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 778.456+/-0.205 $\chi^2$/NDF: 11795.2/15

Left Out: 777.152+/-0.131 $\chi^2$/NDF:1626.6/21

Right Out: 782.575+/-0.204 $\chi^2$/NDF: 7481.4/17

Left In: 777.797+/-0.132 $\chi^2$/NDF:2683.3/20

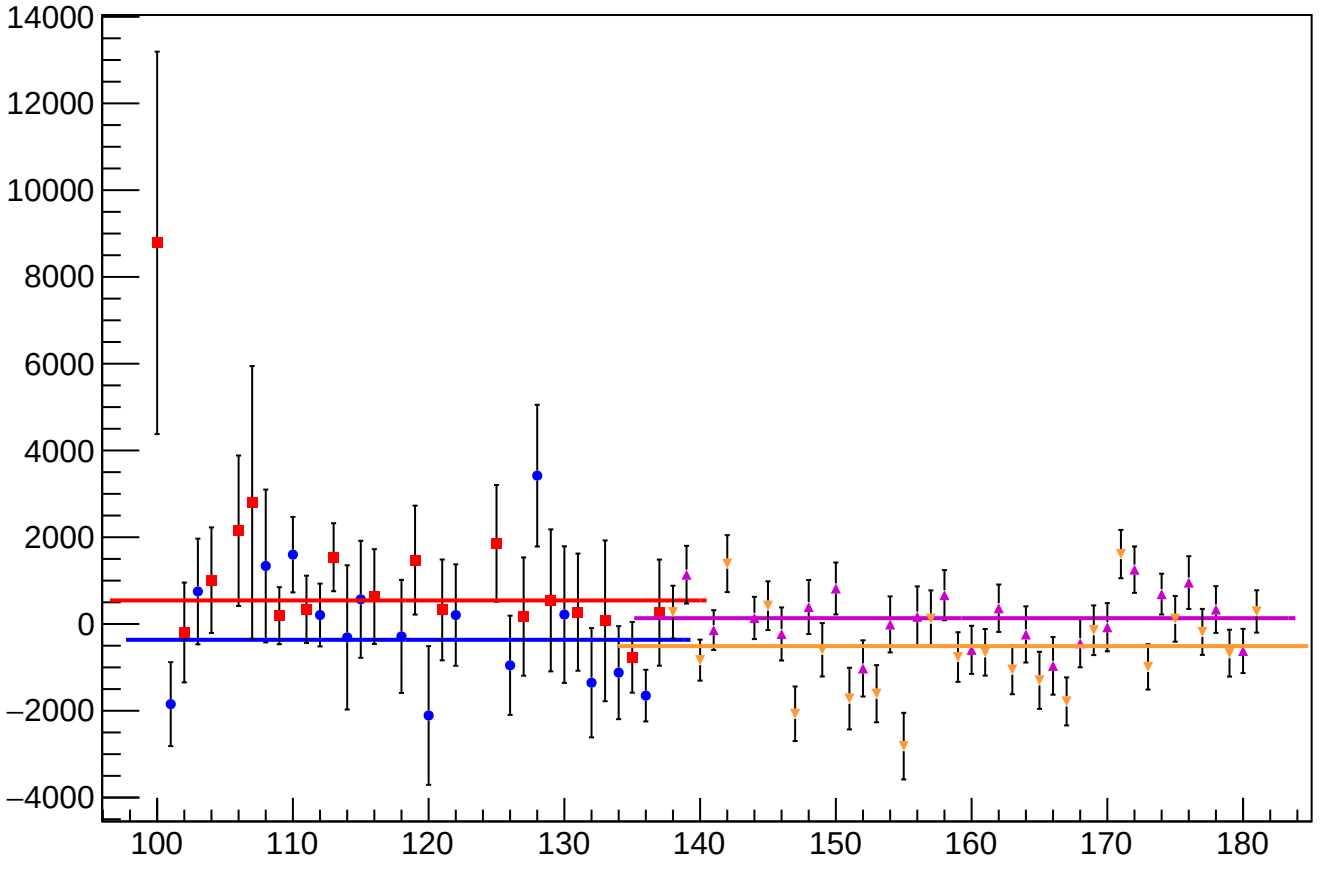
Left: 777.472+/-0.093 $\chi^2$/NDF: 4321.8/42

Right: 780.522+/-0.144 $\chi^2$/NDF: 19480.1/33

In: 777.991+/-0.111 $\chi^2$/NDF:14485.8/36

Out: 778.742+/-0.110 $\chi^2$/NDF:9608.0/39

All: 778.369+/-0.078 $\chi^2$/NDF: 24116.7/76




Right In: -363.977+/-269.316 $\chi^2$/NDF: 23.3/15

Left Out: -509.109+/-122.984 $\chi^2$/NDF:63.3/21

Right Out: 542.879+/-265.273 $\chi^2$/NDF: 11.8/17

Left In: 134.691+/-124.169 $\chi^2$/NDF:24.7/20

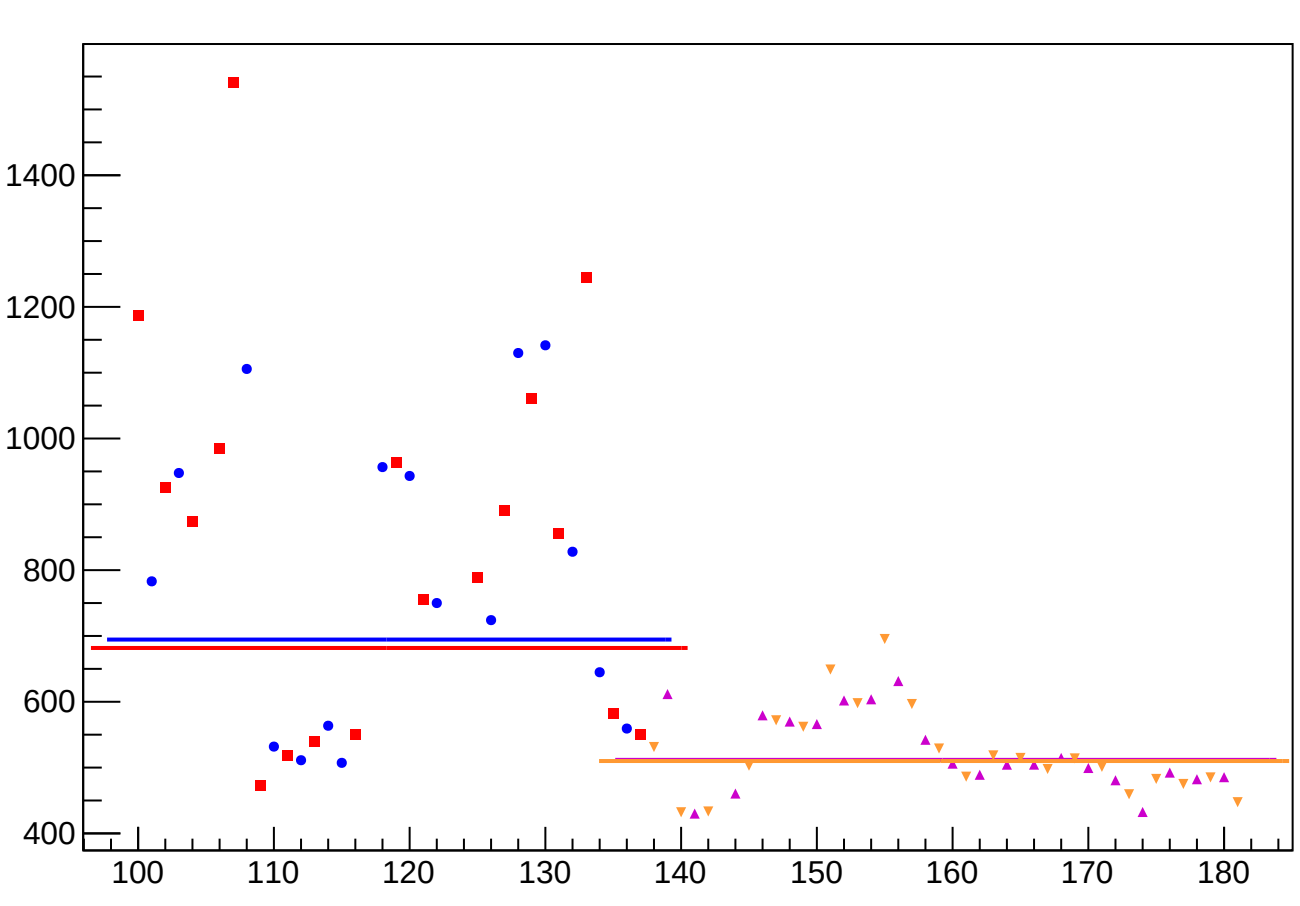
Left: -190.296+/-87.379 $\chi^2$/NDF: 101.6/42

Right: 96.308+/-188.989 $\chi^2$/NDF: 40.8/33

In: 47.271+/-112.761 $\chi^2$/NDF:50.8/36

Out: -323.000+/-111.576 $\chi^2$/NDF:88.1/39

All: -139.820+/-79.312 $\chi^2$/NDF: 144.3/76




Right In: 694.522+/-0.190 $\chi^2$/NDF: 1029884.9/15

Left Out: 509.971+/-0.087 $\chi^2$/NDF:459815.3/21

Right Out: 681.744+/-0.188 $\chi^2$/NDF: 1311322.6/17

Left In: 511.734+/-0.088 $\chi^2$/NDF:414743.7/20

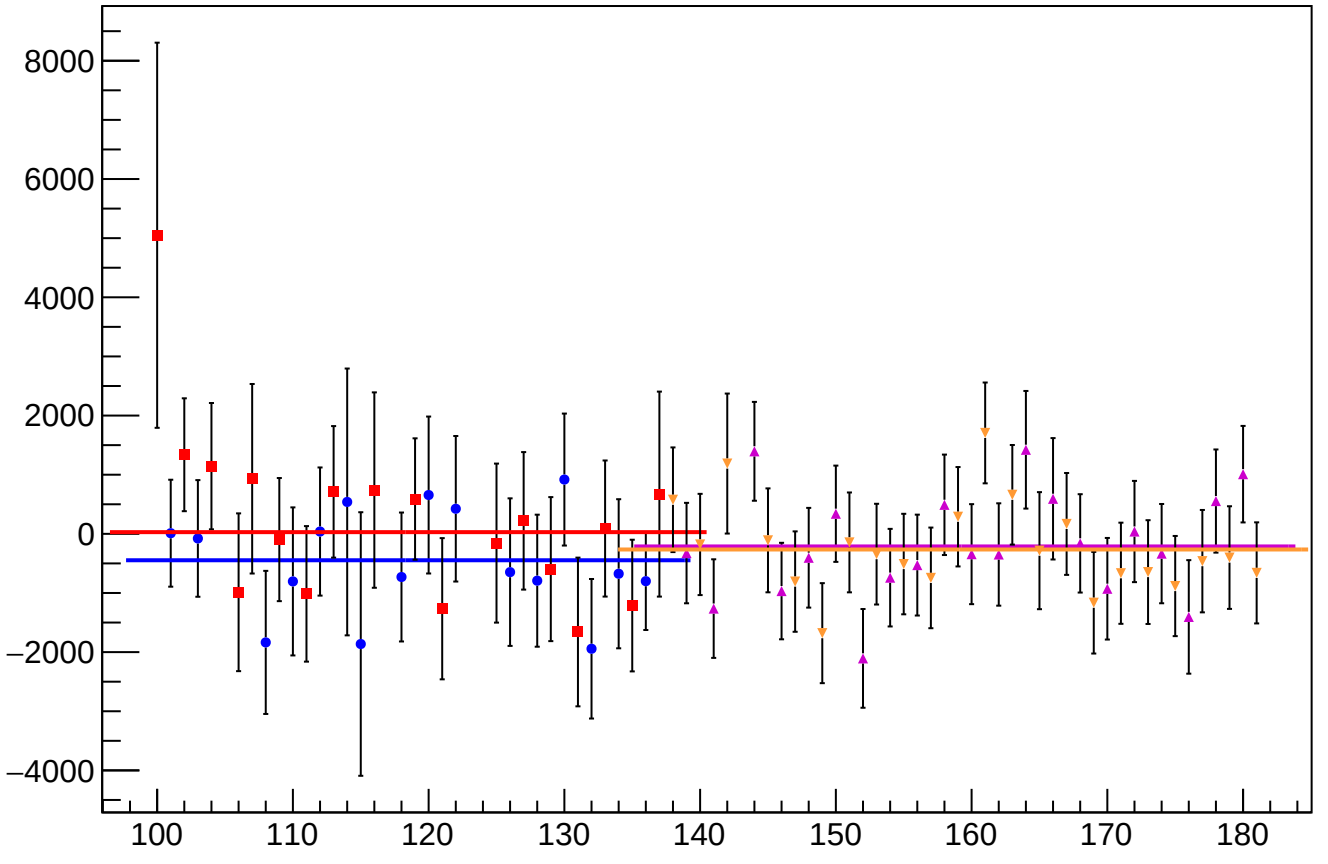
Left: 510.844+/-0.062 $\chi^2$/NDF: 874762.5/42

Right: 688.036+/-0.134 $\chi^2$/NDF: 2343492.9/33

In: 543.778+/-0.080 $\chi^2$/NDF:2204422.1/36

Out: 540.360+/-0.079 $\chi^2$/NDF:2461370.7/39

All: 542.051+/-0.056 $\chi^2$/NDF: 4666721.5/76




Right In: -446.659+/-289.238 $\chi^2$/NDF: 7.3/15

Left Out: -264.555+/-185.694 $\chi^2$/NDF:15.7/21

Right Out: 28.786+/-288.372 $\chi^2$/NDF: 12.6/17

Left In: -212.995+/-187.248 $\chi^2$/NDF:21.8/20

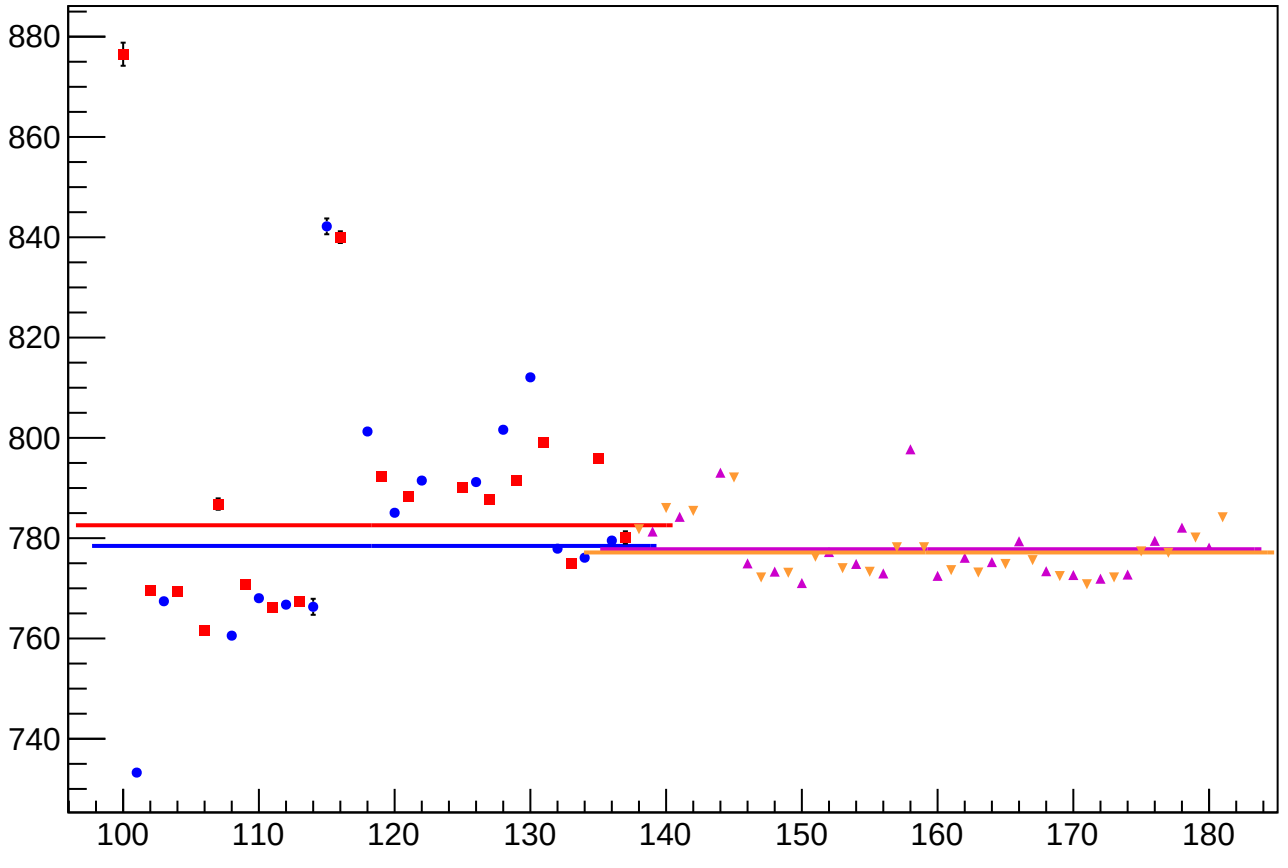
Left: -238.990+/-131.852 $\chi^2$/NDF: 37.5/42

Right: -208.224+/-204.216 $\chi^2$/NDF: 21.3/33

In: -282.003+/-157.185 $\chi^2$/NDF:29.5/36

Out: -178.573+/-156.125 $\chi^2$/NDF:29.0/39

All: -229.938+/-110.770 $\chi^2$/NDF: 58.8/76




Right In: 778.456+/-0.205 $\chi^2$/NDF: 11795.2/15

Left Out: 777.152+/-0.131 $\chi^2$/NDF:1626.6/21

Right Out: 782.575+/-0.204 $\chi^2$/NDF: 7481.4/17

Left In: 777.797+/-0.132 $\chi^2$/NDF:2683.3/20

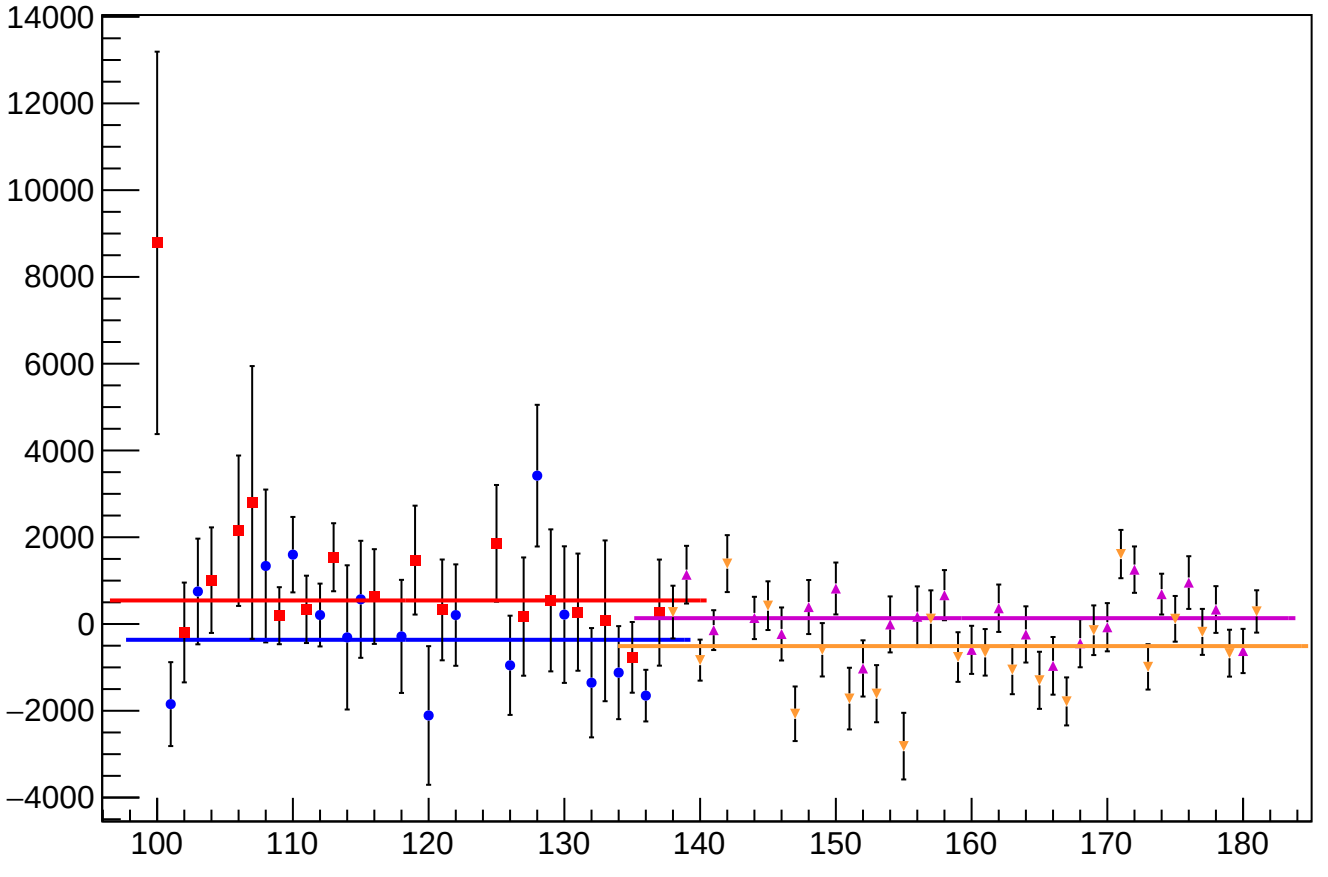
Left: 777.472+/-0.093 $\chi^2$/NDF: 4321.8/42

Right: 780.522+/-0.144 $\chi^2$/NDF: 19480.0/33

In: 777.991+/-0.111 $\chi^2$/NDF:14485.8/36

Out: 778.742+/-0.110 $\chi^2$/NDF:9608.0/39

All: 778.369+/-0.078 $\chi^2$/NDF: 24116.7/76




Right In: -363.973+/-269.314 $\chi^2$/NDF: 23.3/15

Left Out: -509.109+/-122.984 $\chi^2$/NDF:63.3/21

Right Out: 542.878+/-265.272 $\chi^2$/NDF: 11.8/17

Left In: 134.690+/-124.169 $\chi^2$/NDF:24.7/20

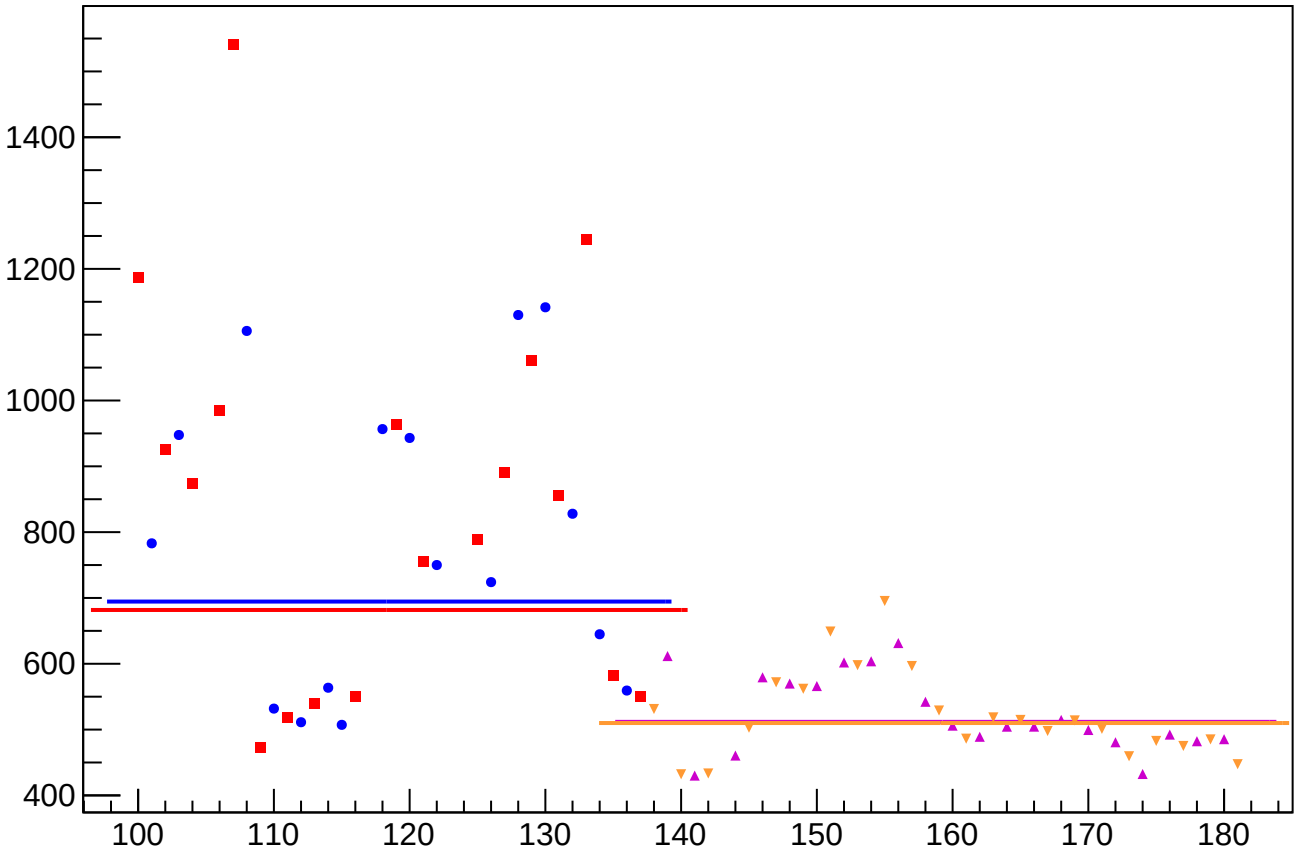
Left: -190.296+/-87.379 $\chi^2$/NDF: 101.6/42

Right: 96.309+/-188.989 $\chi^2$/NDF: 40.8/33

In: 47.271+/-112.761 $\chi^2$/NDF:50.8/36

Out: -322.999+/-111.576 $\chi^2$/NDF:88.1/39

All: -139.820+/-79.312 $\chi^2$/NDF: 144.3/76




Right In: 694.519+/-0.190 $\chi^2$/NDF: 1029897.1/15

Left Out: 509.972+/-0.087 $\chi^2$/NDF:459824.6/21

Right Out: 681.740+/-0.188 $\chi^2$/NDF: 1311342.6/17

Left In: 511.734+/-0.088 $\chi^2$/NDF:414757.0/20

Left: 510.844+/-0.062 $\chi^2$/NDF: 874785.1/42

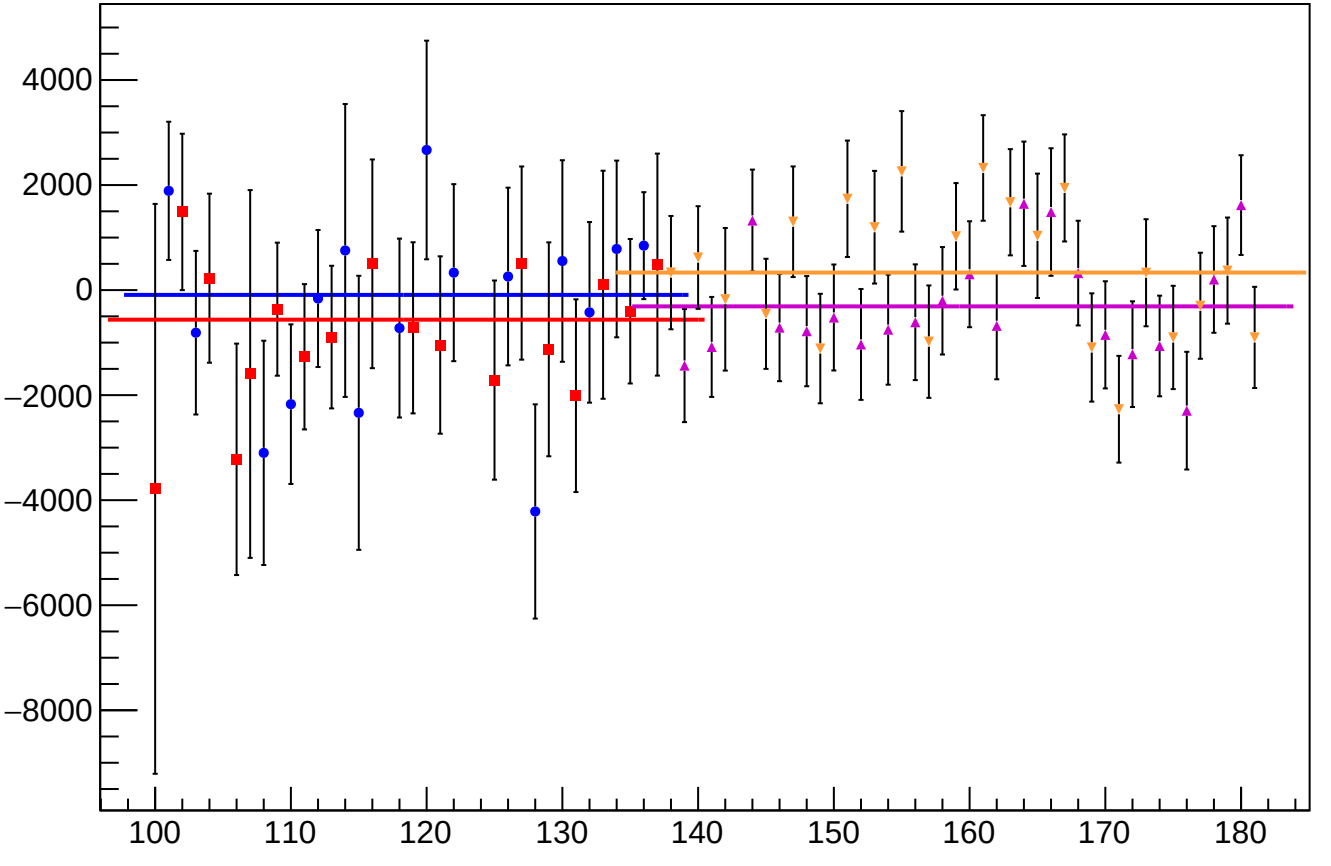
Right: 688.033+/-0.134 $\chi^2$/NDF: 2343525.0/33

In: 543.778+/-0.080 $\chi^2$/NDF:2204423.3/36

Out: 540.360+/-0.079 $\chi^2$/NDF:2461376.2/39

All: 542.051+/-0.056 $\chi^2$/NDF: 4666728.0/76

# asym_us_dd_mean vs Slug, Sign Corrected




Right In: -91.305+/-409.957 $\chi^2$/NDF: 14.5/15

Left Out: 334.050+/-223.303 $\chi^2$/NDF:31.2/21

Right Out: -563.292+/-411.565 $\chi^2$/NDF: 6.5/17

Left In: -310.097+/-225.135 $\chi^2$/NDF:20.8/20

Left: 14.608+/-158.543 $\chi^2$/NDF: 56.1/42

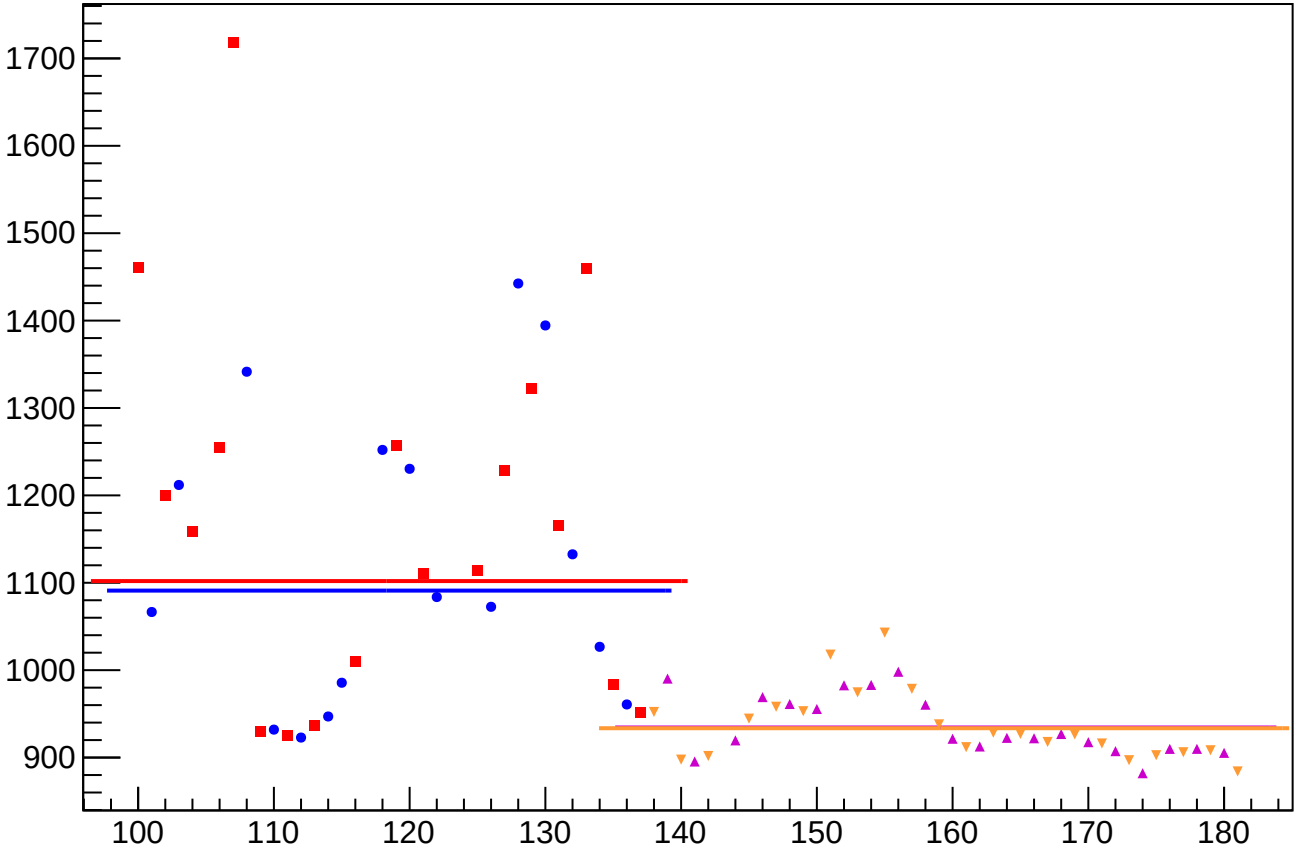
Right: -326.374+/-290.450 $\chi^2$/NDF: 21.7/33

In: -259.401+/-197.336 $\chi^2$/NDF:35.5/36

Out: 129.966+/-196.274 $\chi^2$/NDF:41.4/39

All: -63.667+/-139.161 $\chi^2$/NDF: 78.9/76

# asym_us_dd_rms vs Slug, Sign Corrected




Right In: 1091.041+/-0.290 $\chi^2$/NDF: 277304.9/15

Left Out: 933.574+/-0.158 $\chi^2$/NDF:57387.4/21

Right Out: 1101.953+/-0.291 $\chi^2$/NDF: 328107.6/17

Left In: 934.432+/-0.159 $\chi^2$/NDF:43915.2/20

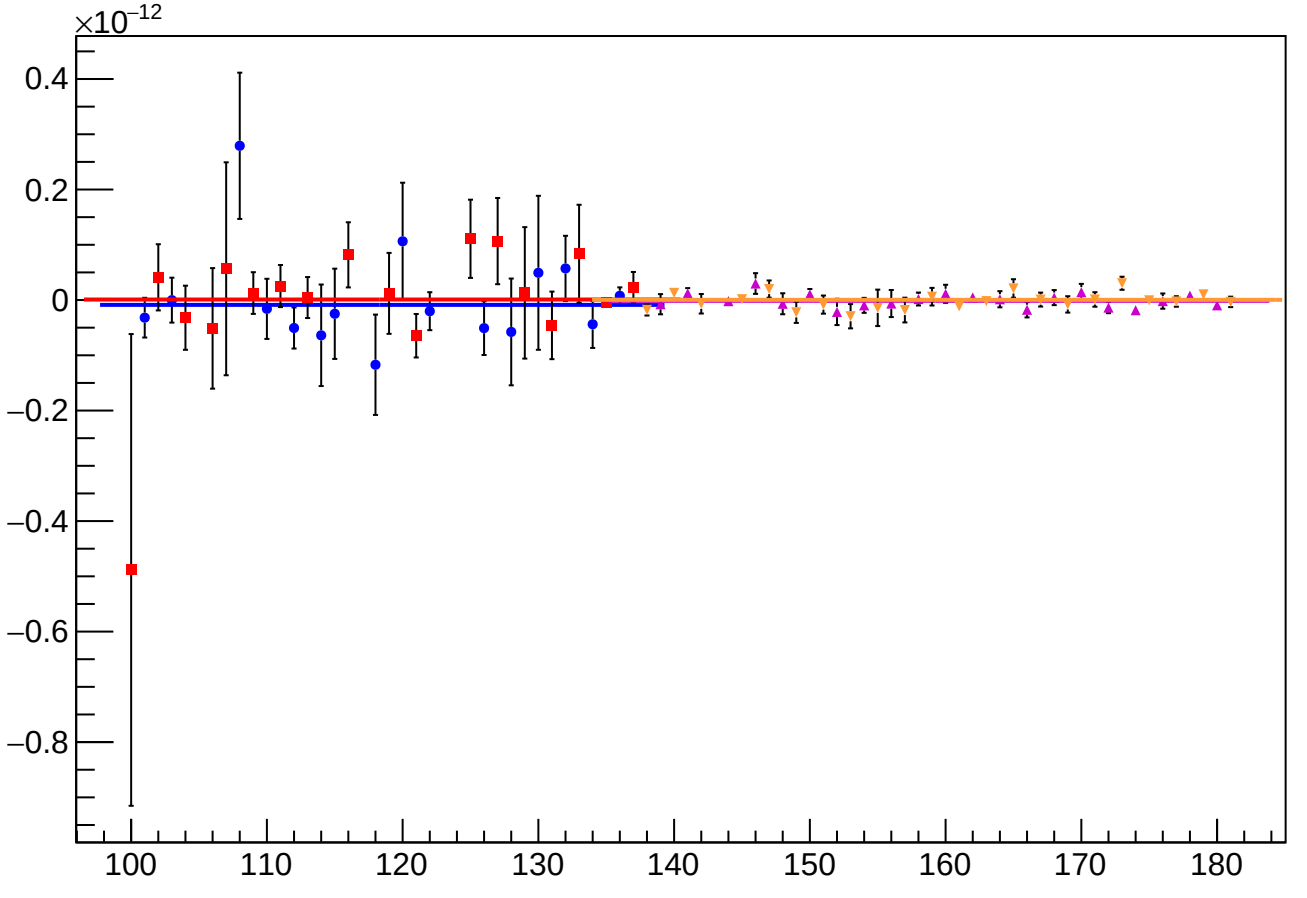
Left: 934.000+/-0.112 $\chi^2$/NDF: 101317.3/42

Right: 1096.476+/-0.205 $\chi^2$/NDF: 606118.2/33

In: 970.719+/-0.140 $\chi^2$/NDF:545460.6/36

Out: 971.869+/-0.139 $\chi^2$/NDF:644116.9/39

All: 971.297+/-0.098 $\chi^2$/NDF: 1189611.6/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.2/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.3/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.7/20

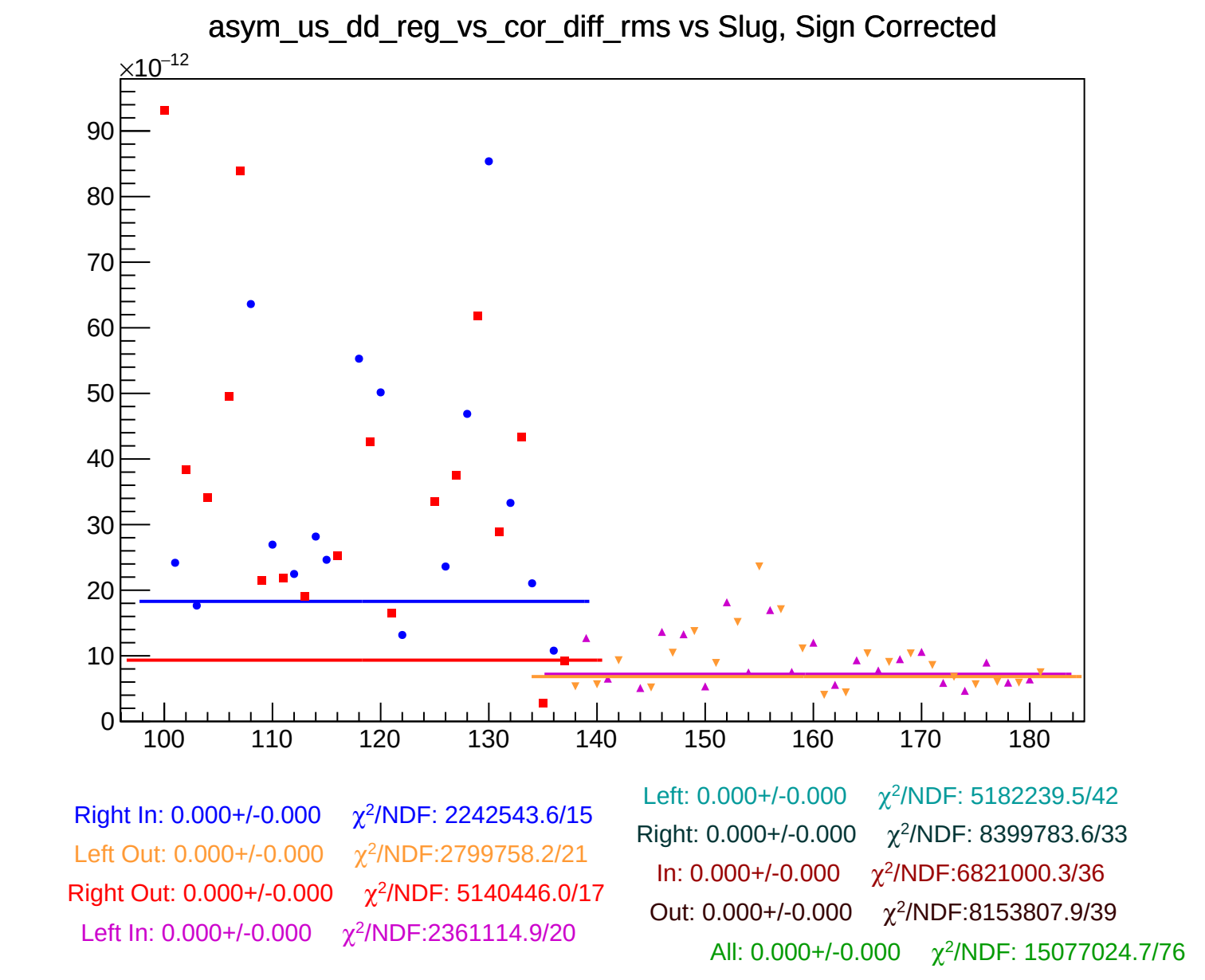
Left: -0.000+/-0.000 $\chi^2$/NDF: 44.2/42

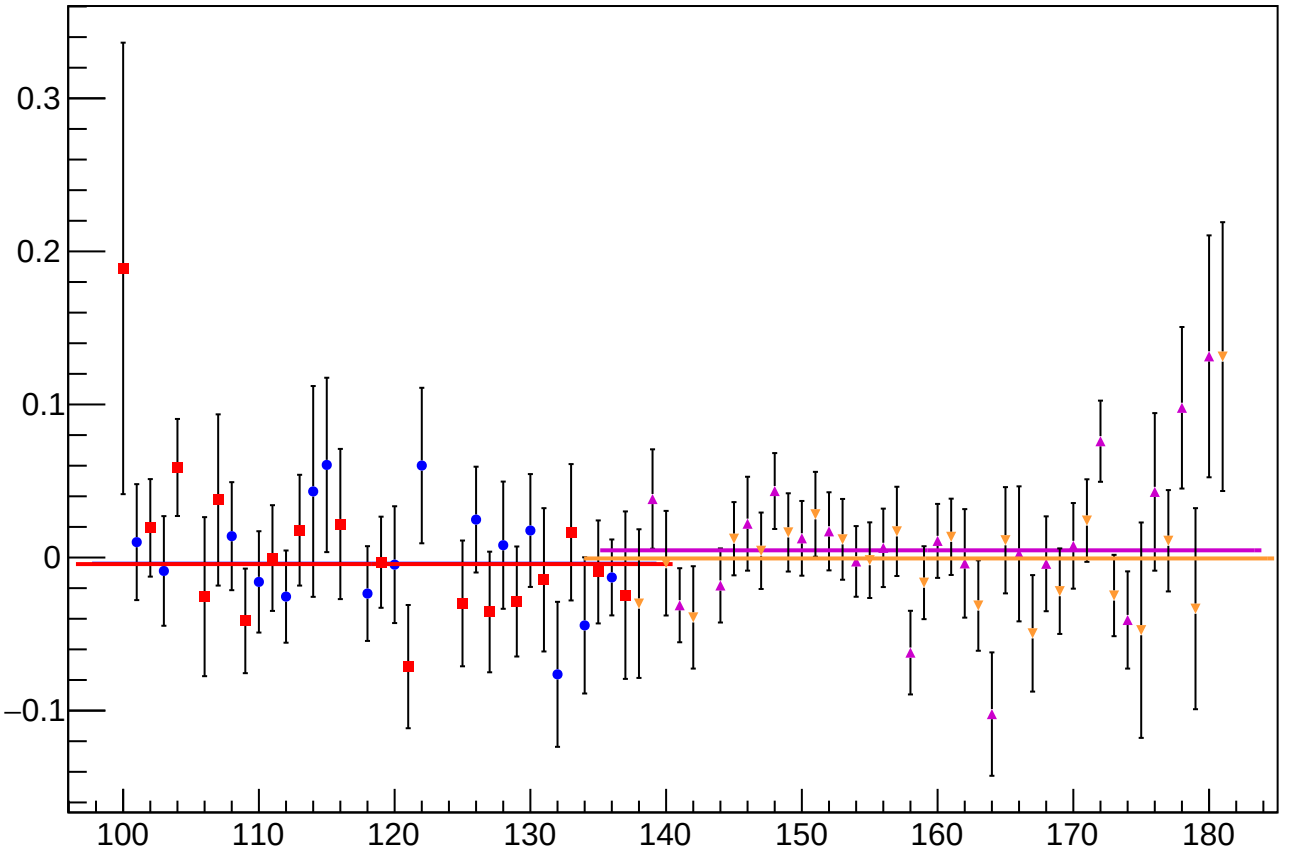
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:34.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:38.5/39

All: -0.000+/-0.000 $\chi^2$/NDF: 73.0/76


asym_us_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2242543.6/15
Left Out: 0.000+/-0.000 χ²/NDF:2799758.2/21
Right Out: 0.000+/-0.000 χ²/NDF: 5140446.0/17
Left In: 0.000+/-0.000 χ²/NDF:2361114.9/20
Left: 0.000+/-0.000 χ²/NDF: 5182239.5/42
Right: 0.000+/-0.000 χ²/NDF: 8399783.6/33
In: 0.000+/-0.000 χ²/NDF:6821000.3/36
Out: 0.000+/-0.000 χ²/NDF:8153807.9/39
All: 0.000+/-0.000 χ²/NDF: 15077024.7/76




Right In: -0.004+/-0.009 $\chi^2$/NDF: 9.2/15

Left Out: -0.001+/-0.006 $\chi^2$/NDF:13.1/21

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 13.5/17

Left In: 0.005+/-0.006 $\chi^2$/NDF:36.1/20

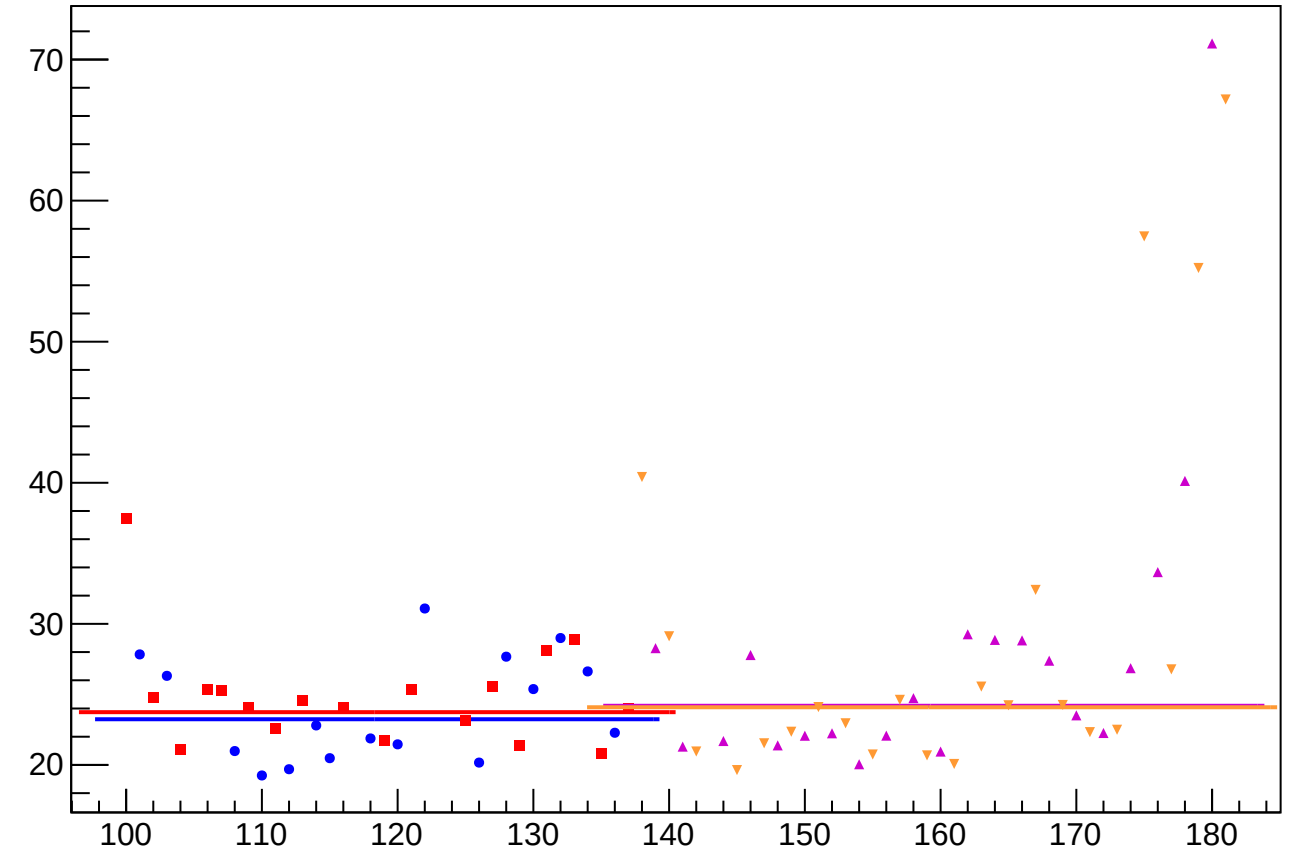
Left: 0.002+/-0.005 $\chi^2$/NDF: 49.6/42

Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

In: 0.002+/-0.005 $\chi^2$/NDF:45.9/36

Out: -0.002+/-0.005 $\chi^2$/NDF:26.7/39

All: 0.000+/-0.004 $\chi^2$/NDF: 72.9/76




Right In: 23.238+/-0.007 $\chi^2$/NDF: 259235.5/15

Left Out: 24.088+/-0.005 $\chi^2$/NDF:2030876.0/21

Right Out: 23.740+/-0.007 $\chi^2$/NDF: 126183.6/17

Left In: 24.193+/-0.005 $\chi^2$/NDF:1369466.5/20

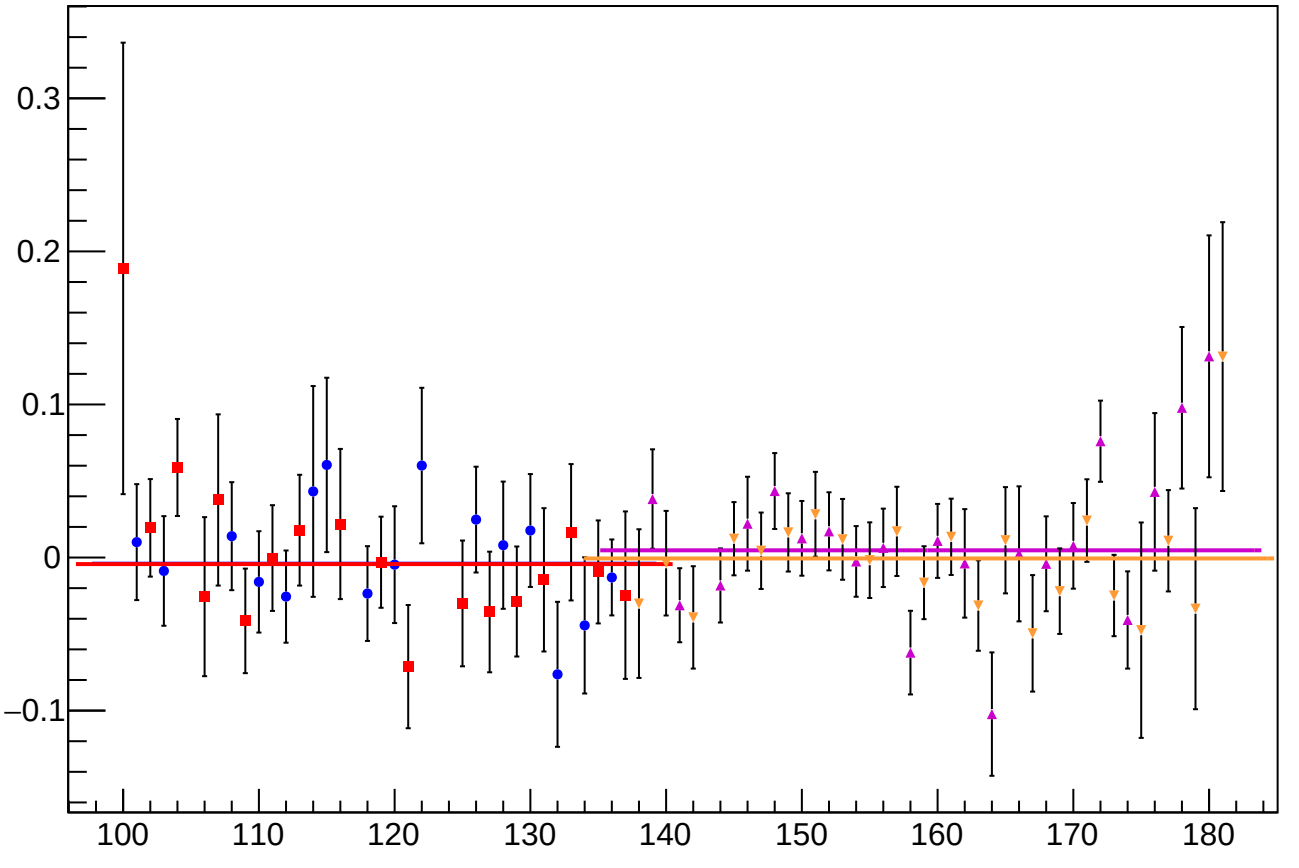
Left: 24.140+/-0.003 $\chi^2$/NDF: 3400611.8/42

Right: 23.488+/-0.005 $\chi^2$/NDF: 388343.8/33

In: 23.883+/-0.004 $\chi^2$/NDF:1643069.4/36

Out: 23.975+/-0.004 $\chi^2$/NDF:2158942.6/39

All: 23.929+/-0.003 $\chi^2$/NDF: 3802318.1/76




Right In: -0.004+/-0.009 $\chi^2$/NDF: 9.2/15

Left Out: -0.001+/-0.006 $\chi^2$/NDF:13.1/21

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 13.5/17

Left In: 0.005+/-0.006 $\chi^2$/NDF:36.1/20

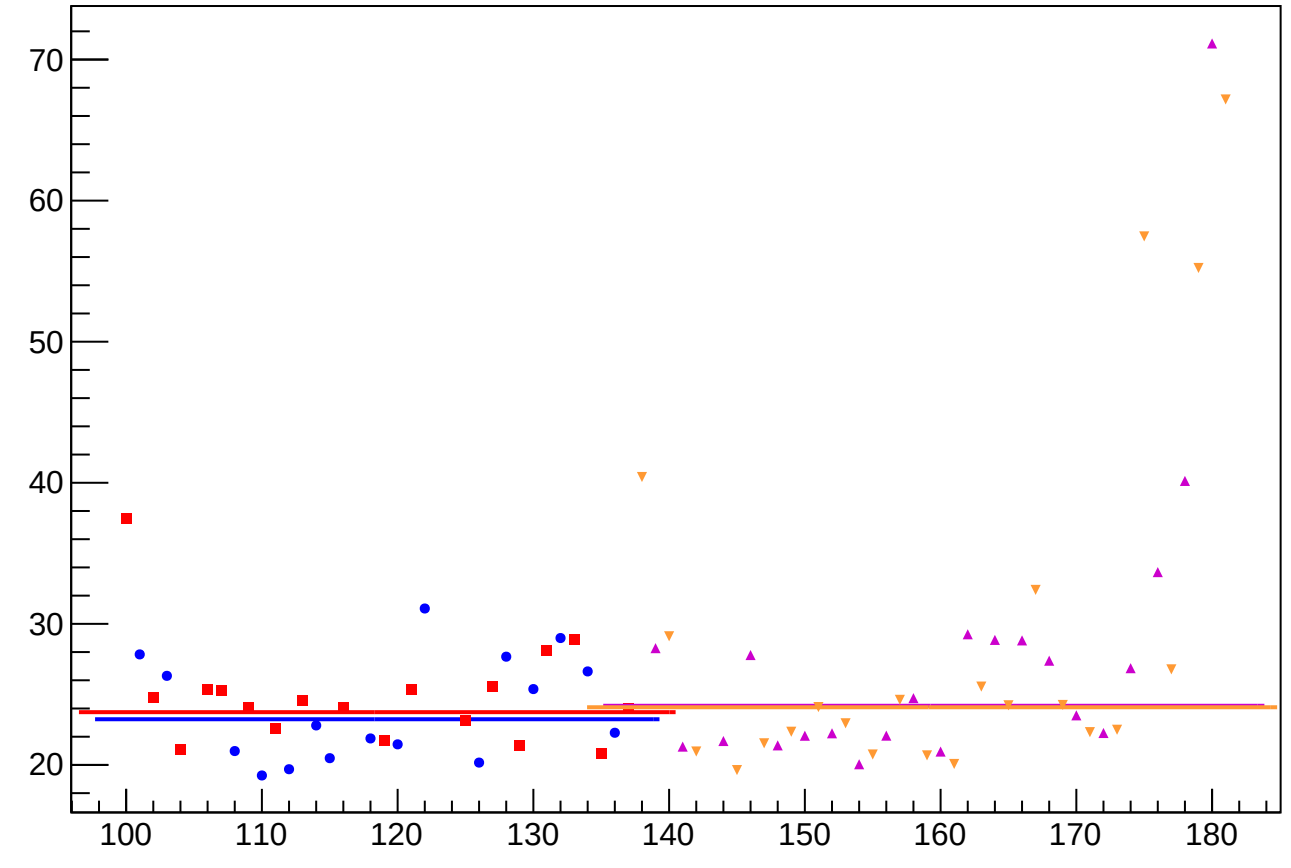
Left: 0.002+/-0.005 $\chi^2$/NDF: 49.6/42

Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

In: 0.002+/-0.005 $\chi^2$/NDF:45.9/36

Out: -0.002+/-0.005 $\chi^2$/NDF:26.7/39

All: 0.000+/-0.004 $\chi^2$/NDF: 72.9/76




Right In: 23.238+/-0.007 $\chi^2$/NDF: 259235.5/15

Left Out: 24.088+/-0.005 $\chi^2$/NDF:2030876.0/21

Right Out: 23.740+/-0.007 $\chi^2$/NDF: 126183.6/17

Left In: 24.193+/-0.005 $\chi^2$/NDF:1369466.5/20

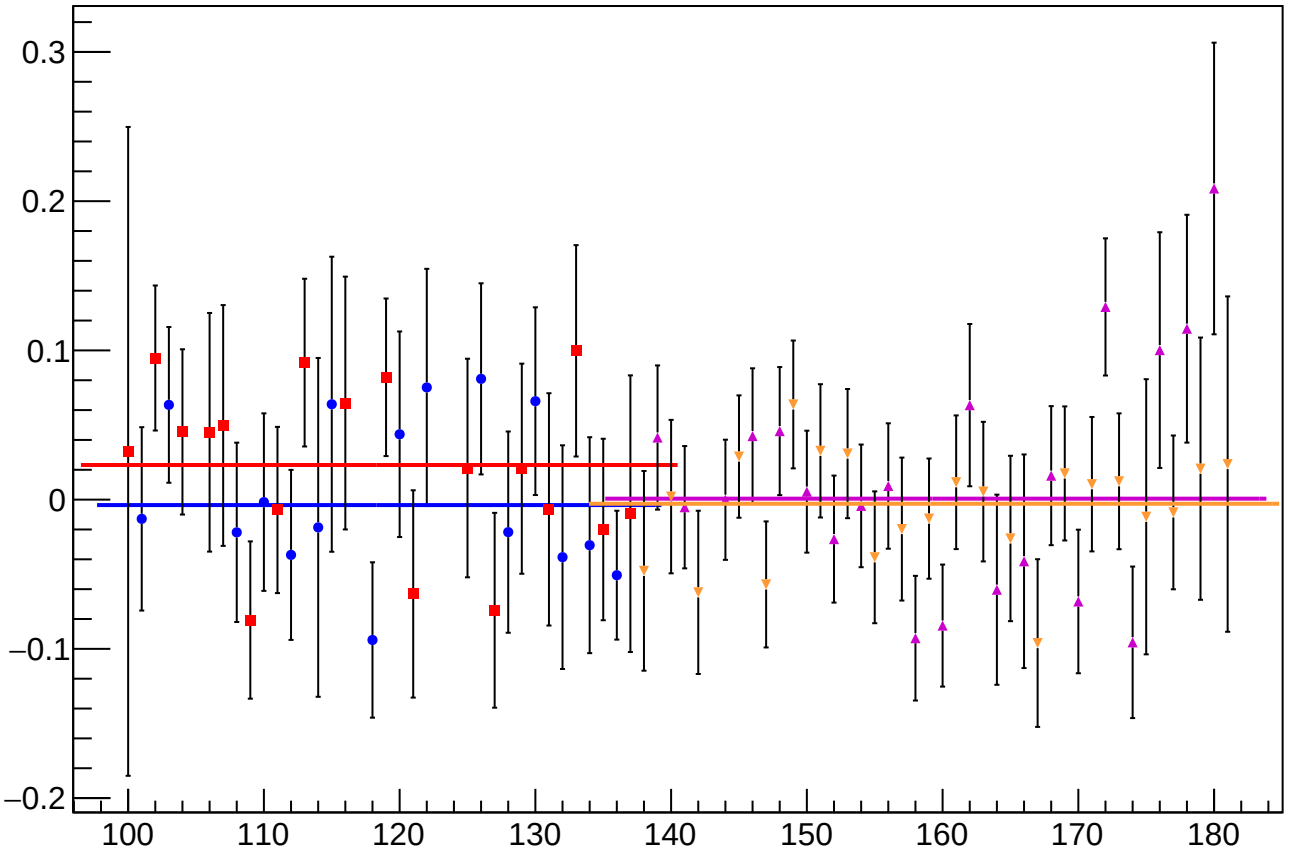
Left: 24.140+/-0.003 $\chi^2$/NDF: 3400611.8/42

Right: 23.488+/-0.005 $\chi^2$/NDF: 388343.8/33

In: 23.883+/-0.004 $\chi^2$/NDF:1643069.4/36

Out: 23.975+/-0.004 $\chi^2$/NDF:2158942.6/39

All: 23.929+/-0.003 $\chi^2$/NDF: 3802318.1/76




Right In: -0.004+/-0.016 $\chi^2$/NDF: 11.7/15

Left Out: -0.003+/-0.011 $\chi^2$/NDF:12.0/21

Right Out: 0.023+/-0.016 $\chi^2$/NDF: 15.4/17

Left In: 0.001+/-0.010 $\chi^2$/NDF:37.0/20

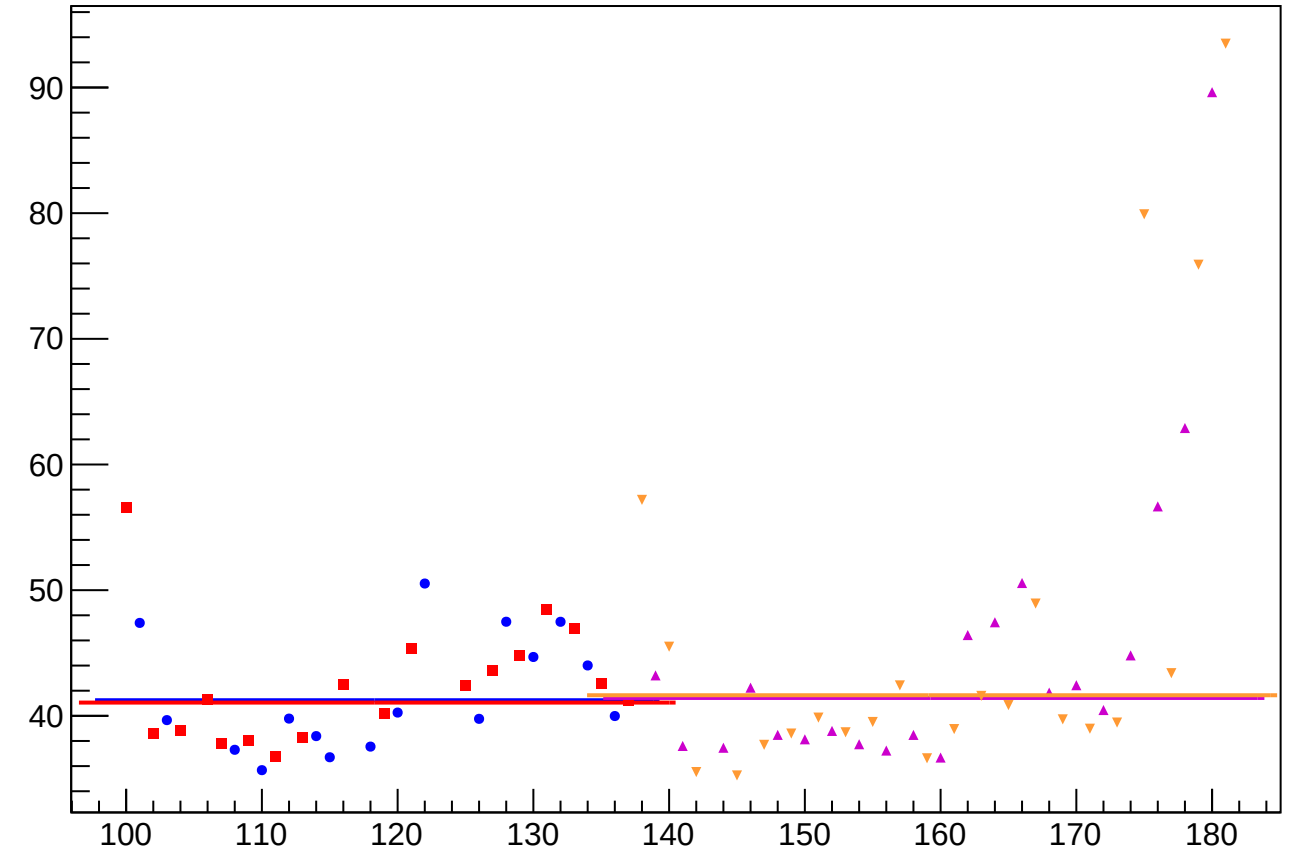
Left: -0.001+/-0.007 $\chi^2$/NDF: 49.1/42

Right: 0.010+/-0.011 $\chi^2$/NDF: 28.5/33

In: -0.001+/-0.009 $\chi^2$/NDF:48.7/36

Out: 0.005+/-0.009 $\chi^2$/NDF:29.3/39

All: 0.002+/-0.006 $\chi^2$/NDF: 78.3/76




Right In: 41.242+/-0.011 $\chi^2$/NDF: 135279.1/15

Left Out: 41.639+/-0.007 $\chi^2$/NDF:1402302.0/21

Right Out: 41.055+/-0.011 $\chi^2$/NDF: 96560.6/17

Left In: 41.423+/-0.007 $\chi^2$/NDF:940678.6/20

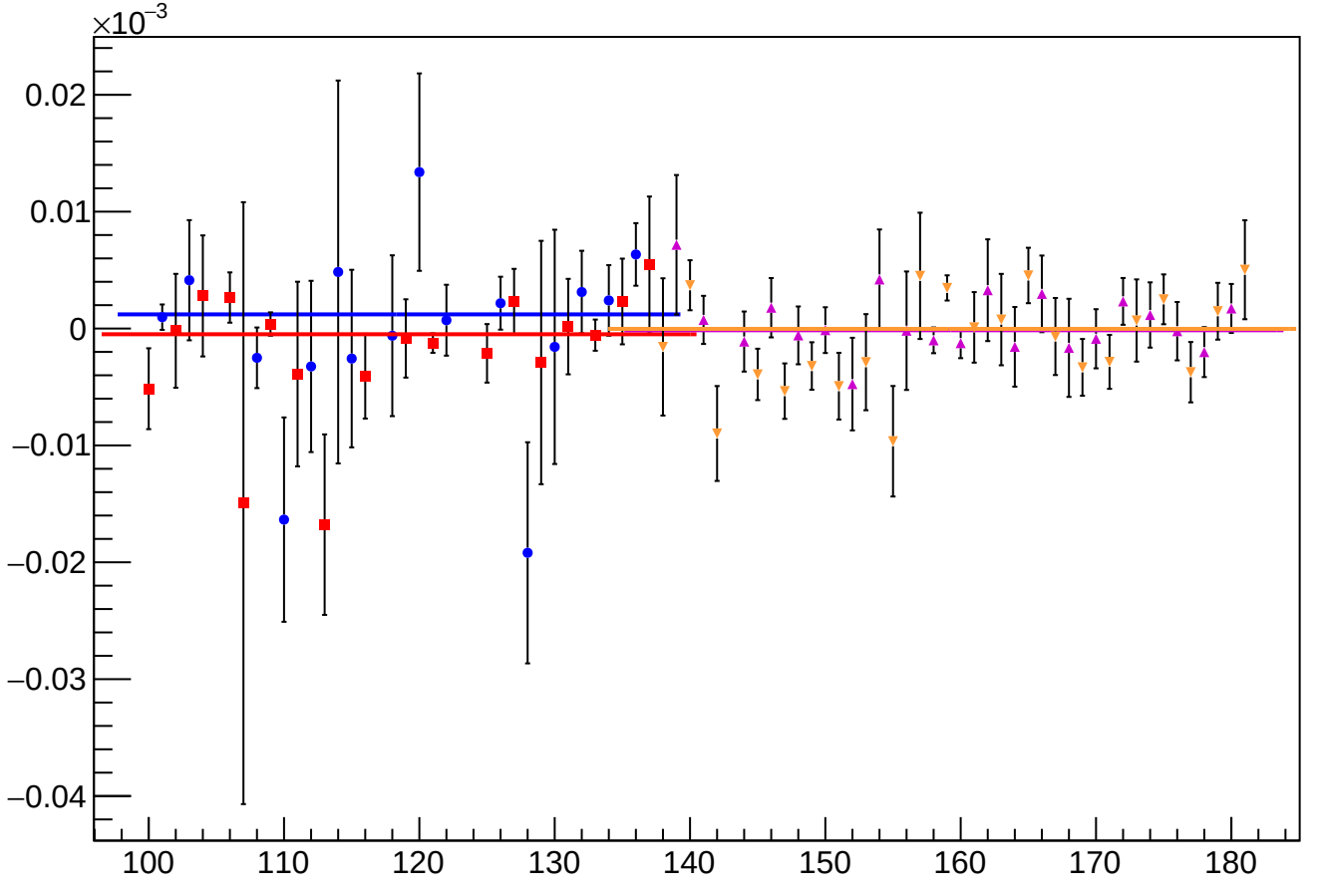
Left: 41.530+/-0.005 $\chi^2$/NDF: 2343400.6/42

Right: 41.147+/-0.008 $\chi^2$/NDF: 231982.7/33

In: 41.368+/-0.006 $\chi^2$/NDF:1076142.7/36

Out: 41.454+/-0.006 $\chi^2$/NDF:1500802.8/39

All: 41.411+/-0.004 $\chi^2$/NDF: 2577044.3/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:49.9/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:11.4/20

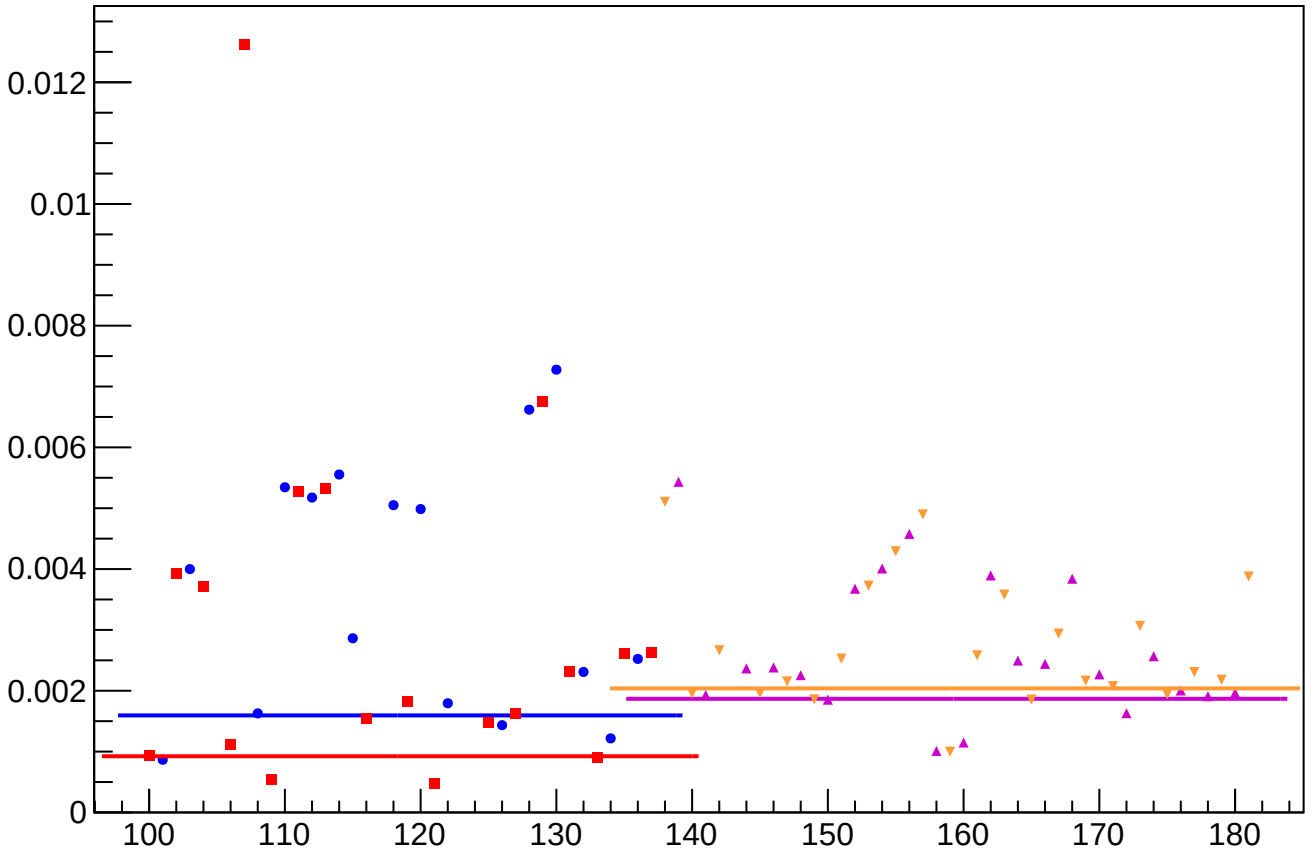
Left: -0.000+/-0.000 $\chi^2$/NDF: 61.3/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 36.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:32.0/36

Out: -0.000+/-0.000 $\chi^2$/NDF:65.2/39

All: -0.000+/-0.000 $\chi^2$/NDF: 98.2/76




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4762068.1/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:5017729.0/21

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5780451.3/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:5474951.8/20

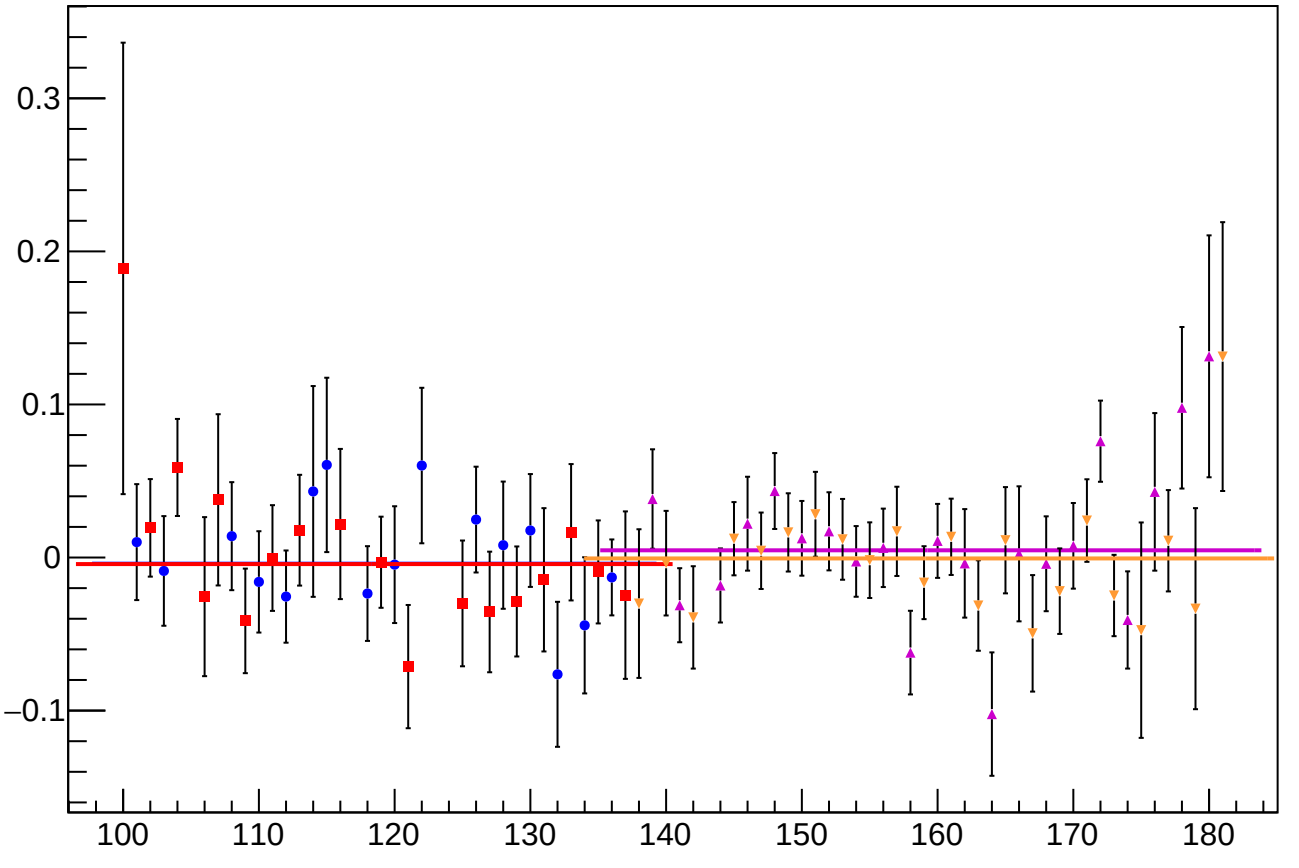
Left: 0.002+/-0.000 $\chi^2$/NDF: 10602944.4/42

Right: 0.001+/-0.000 $\chi^2$/NDF: 11655258.3/33

In: 0.002+/-0.000 $\chi^2$/NDF:10420254.6/36

Out: 0.001+/-0.000 $\chi^2$/NDF:15491906.2/39

All: 0.002+/-0.000 $\chi^2$/NDF: 26673006.6/76




Right In: -0.004+/-0.009 $\chi^2$/NDF: 9.2/15

Left Out: -0.001+/-0.006 $\chi^2$/NDF:13.1/21

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 13.5/17

Left In: 0.005+/-0.006 $\chi^2$/NDF:36.1/20

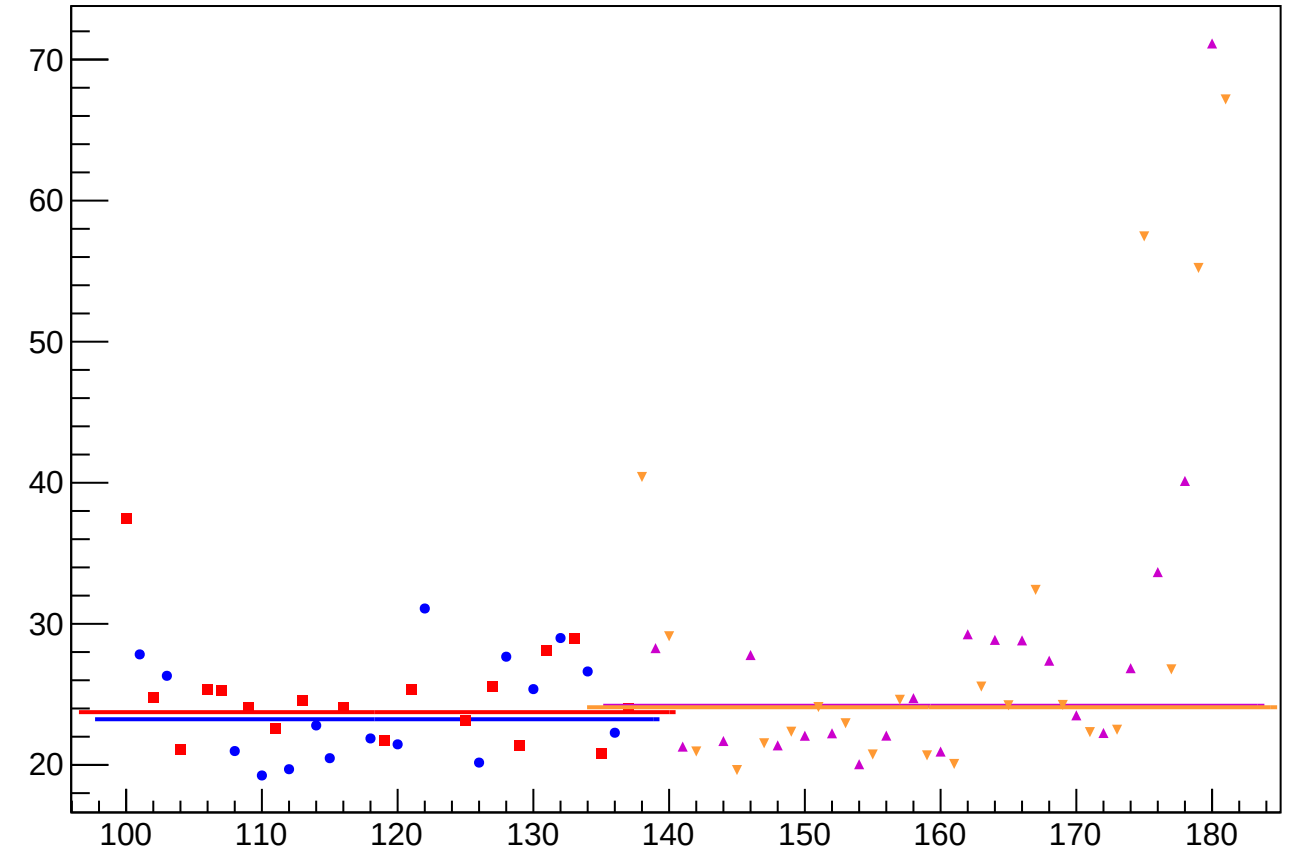
Left: 0.002+/-0.005 $\chi^2$/NDF: 49.6/42

Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

In: 0.002+/-0.005 $\chi^2$/NDF:45.9/36

Out: -0.002+/-0.005 $\chi^2$/NDF:26.7/39

All: 0.000+/-0.004 $\chi^2$/NDF: 72.9/76




Right In: 23.237+/-0.007 $\chi^2$/NDF: 259224.2/15

Left Out: 24.088+/-0.005 $\chi^2$/NDF:2030912.9/21

Right Out: 23.741+/-0.007 $\chi^2$/NDF: 126132.7/17

Left In: 24.193+/-0.005 $\chi^2$/NDF:1369354.3/20

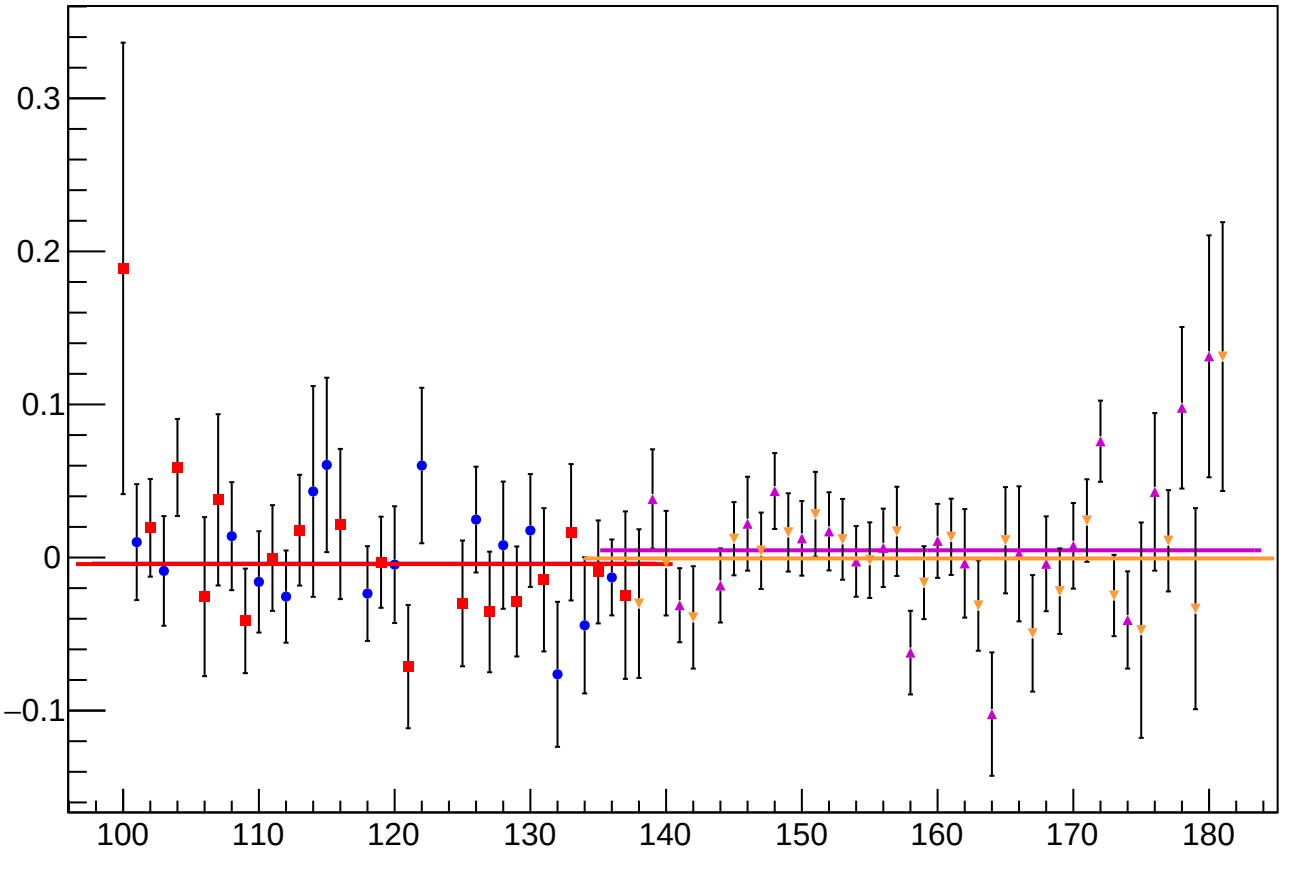
Left: 24.141+/-0.003 $\chi^2$/NDF: 3400537.7/42

Right: 23.487+/-0.005 $\chi^2$/NDF: 388292.2/33

In: 23.883+/-0.004 $\chi^2$/NDF:1642974.7/36

Out: 23.976+/-0.004 $\chi^2$/NDF:2158926.4/39

All: 23.929+/-0.003 $\chi^2$/NDF: 3802208.0/76




Right In: -0.004+/-0.009 $\chi^2$/NDF: 9.2/15

Left Out: -0.001+/-0.006 $\chi^2$/NDF:13.1/21

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 13.5/17

Left In: 0.005+/-0.006 $\chi^2$/NDF:36.1/20

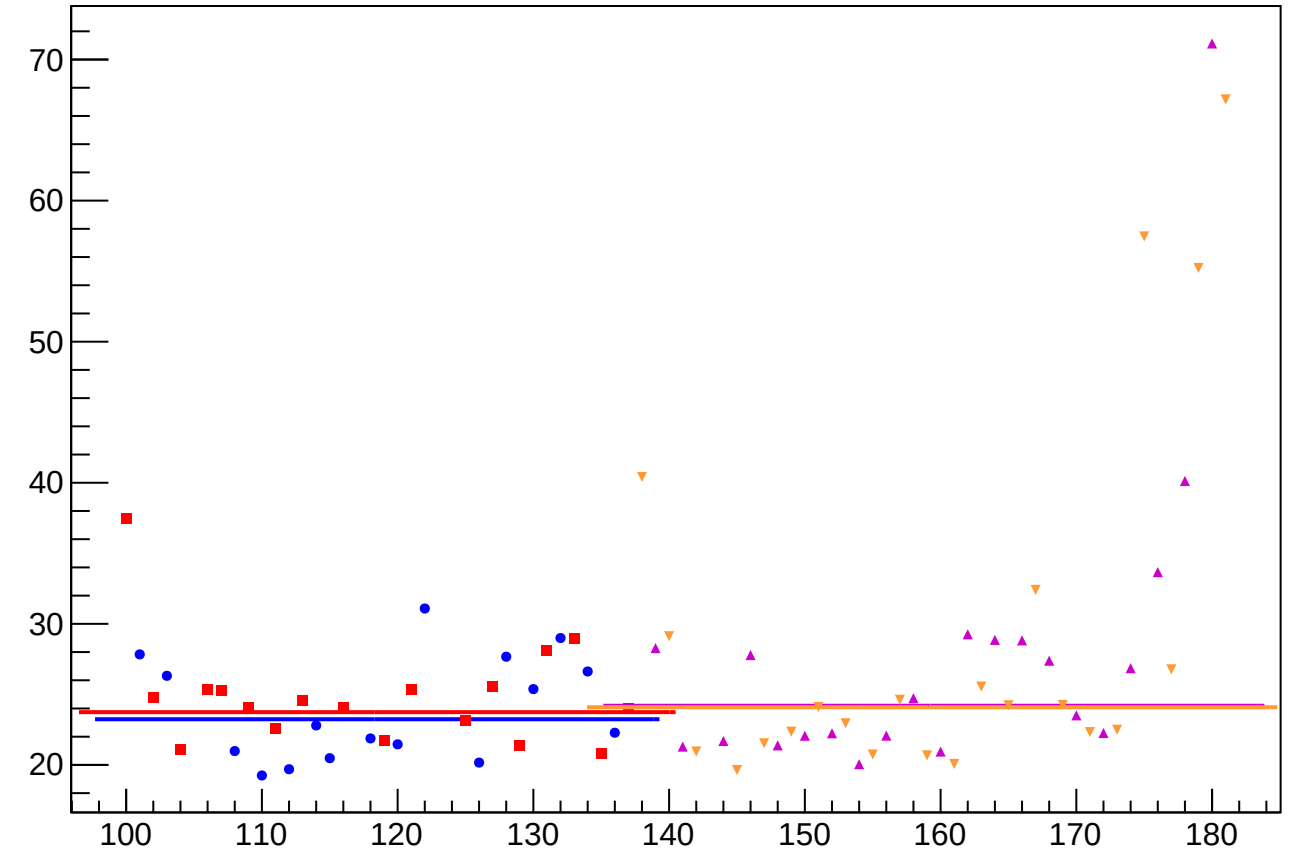
Left: 0.002+/-0.005 $\chi^2$/NDF: 49.6/42

Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

In: 0.002+/-0.005 $\chi^2$/NDF:45.9/36

Out: -0.002+/-0.005 $\chi^2$/NDF:26.7/39

All: 0.000+/-0.004 $\chi^2$/NDF: 72.9/76




Right In: 23.237+/-0.007 $\chi^2$/NDF: 259224.2/15

Left Out: 24.088+/-0.005 $\chi^2$/NDF:2030912.9/21

Right Out: 23.741+/-0.007 $\chi^2$/NDF: 126132.7/17

Left In: 24.193+/-0.005 $\chi^2$/NDF:1369354.3/20

Left: 24.141+/-0.003 $\chi^2$/NDF: 3400537.7/42

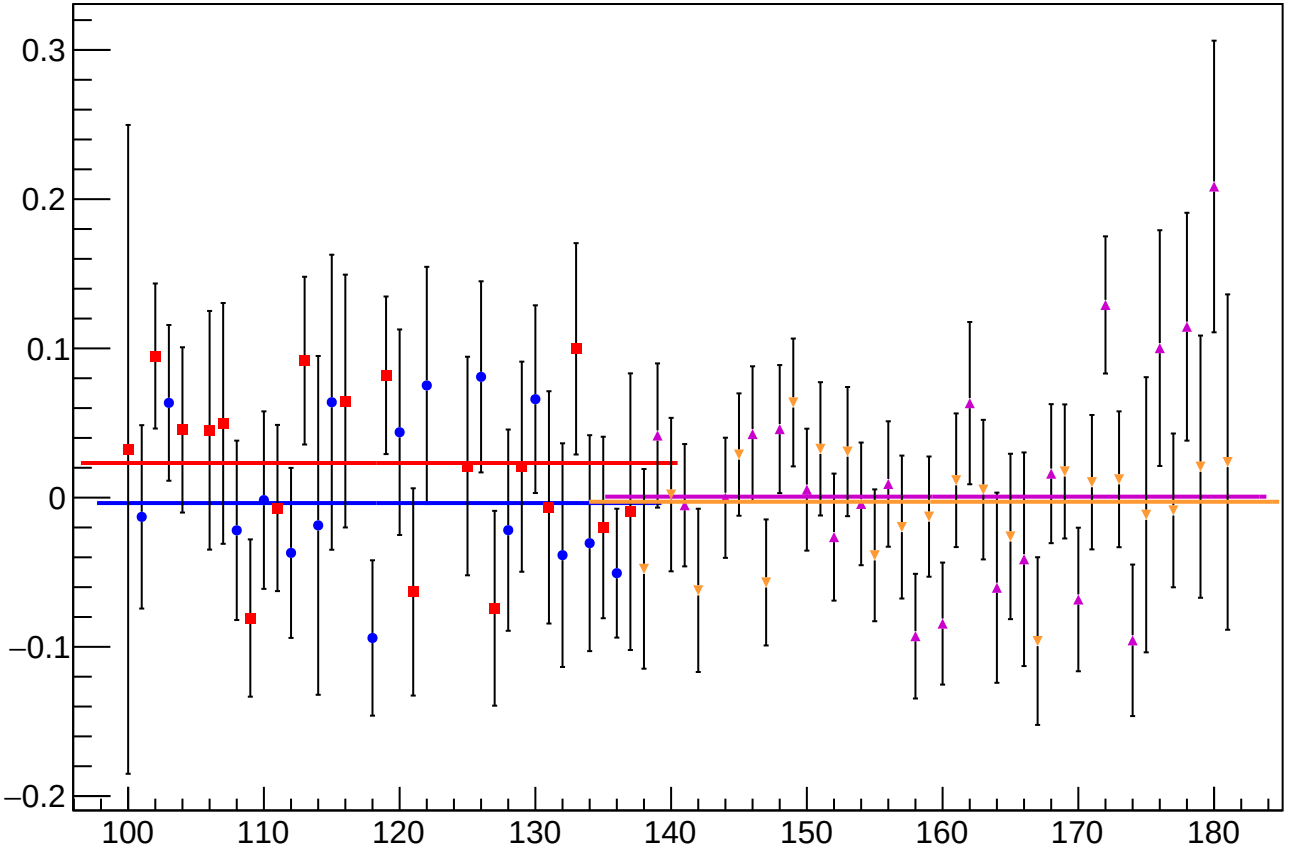
Right: 23.487+/-0.005 $\chi^2$/NDF: 388292.2/33

In: 23.883+/-0.004 $\chi^2$/NDF:1642974.7/36

Out: 23.976+/-0.004 $\chi^2$/NDF:2158926.4/39

All: 23.929+/-0.003 $\chi^2$/NDF: 3802208.0/76

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.004+/-0.016 $\chi^2$/NDF: 11.7/15

Left Out: -0.003+/-0.011 $\chi^2$/NDF:12.0/21

Right Out: 0.023+/-0.016 $\chi^2$/NDF: 15.4/17

Left In: 0.001+/-0.010 $\chi^2$/NDF:37.0/20

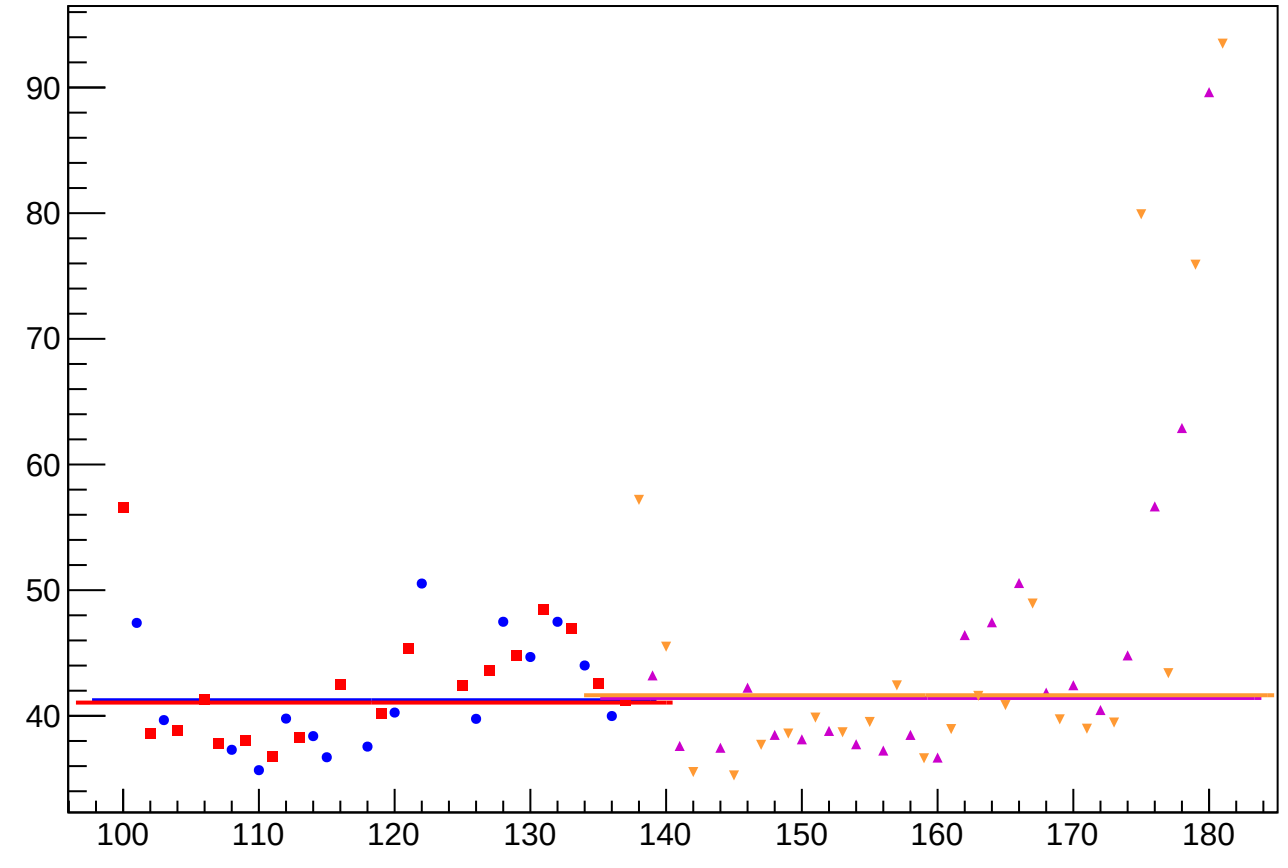
Left: -0.001+/-0.007 $\chi^2$/NDF: 49.1/42

Right: 0.010+/-0.011 $\chi^2$/NDF: 28.5/33

In: -0.001+/-0.009 $\chi^2$/NDF:48.7/36

Out: 0.005+/-0.009 $\chi^2$/NDF:29.3/39

All: 0.002+/-0.006 $\chi^2$/NDF: 78.3/76




Right In: 41.241+/-0.011 $\chi^2$/NDF: 135256.9/15

Left Out: 41.639+/-0.007 $\chi^2$/NDF:1402299.0/21

Right Out: 41.055+/-0.011 $\chi^2$/NDF: 96549.4/17

Left In: 41.424+/-0.007 $\chi^2$/NDF:940663.8/20

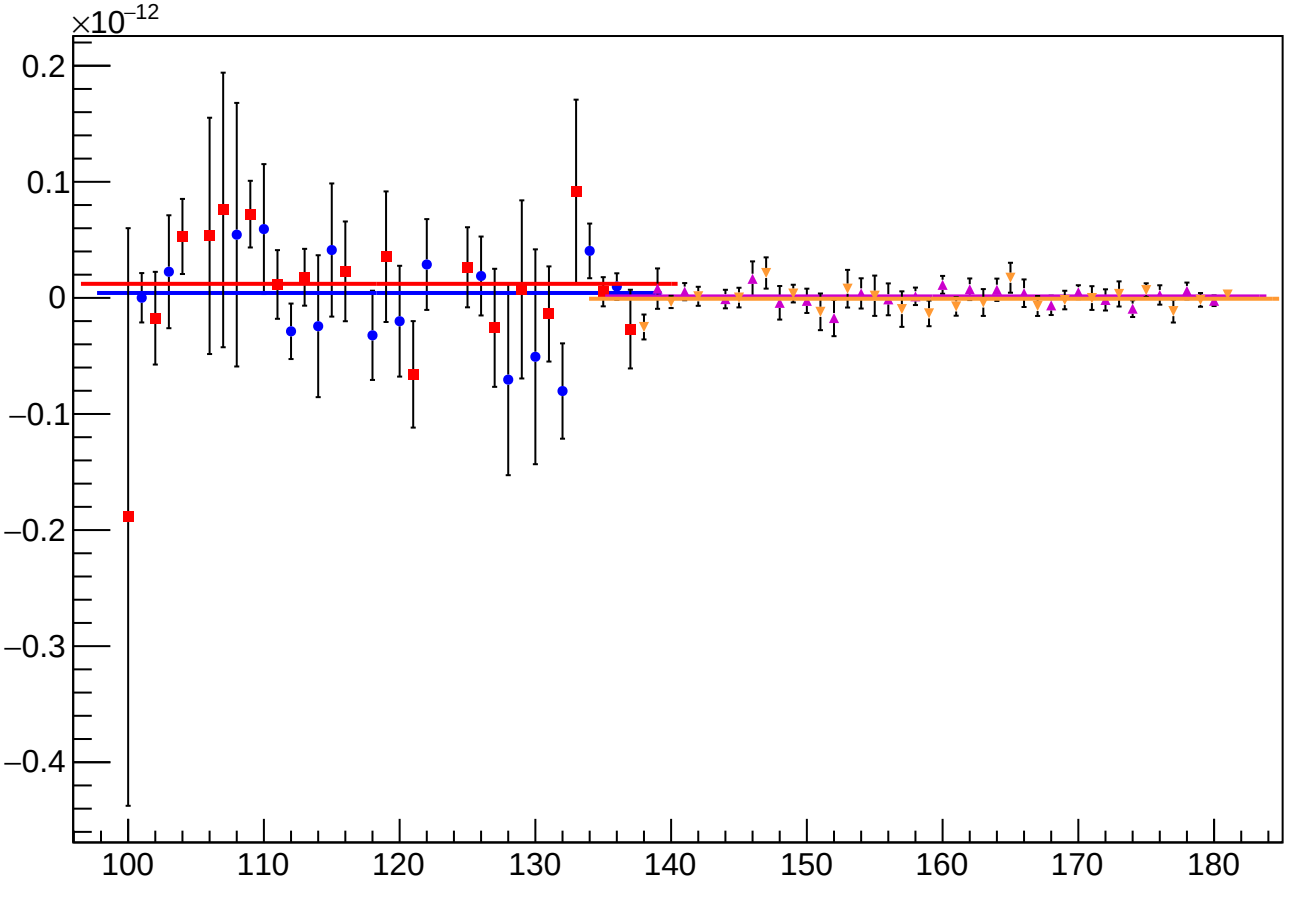
Left: 41.530+/-0.005 $\chi^2$/NDF: 2343382.5/42

Right: 41.147+/-0.008 $\chi^2$/NDF: 231949.1/33

In: 41.368+/-0.006 $\chi^2$/NDF:1076106.5/36

Out: 41.454+/-0.006 $\chi^2$/NDF:1500789.1/39

All: 41.411+/-0.004 $\chi^2$/NDF: 2576994.5/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.0/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:10.4/20

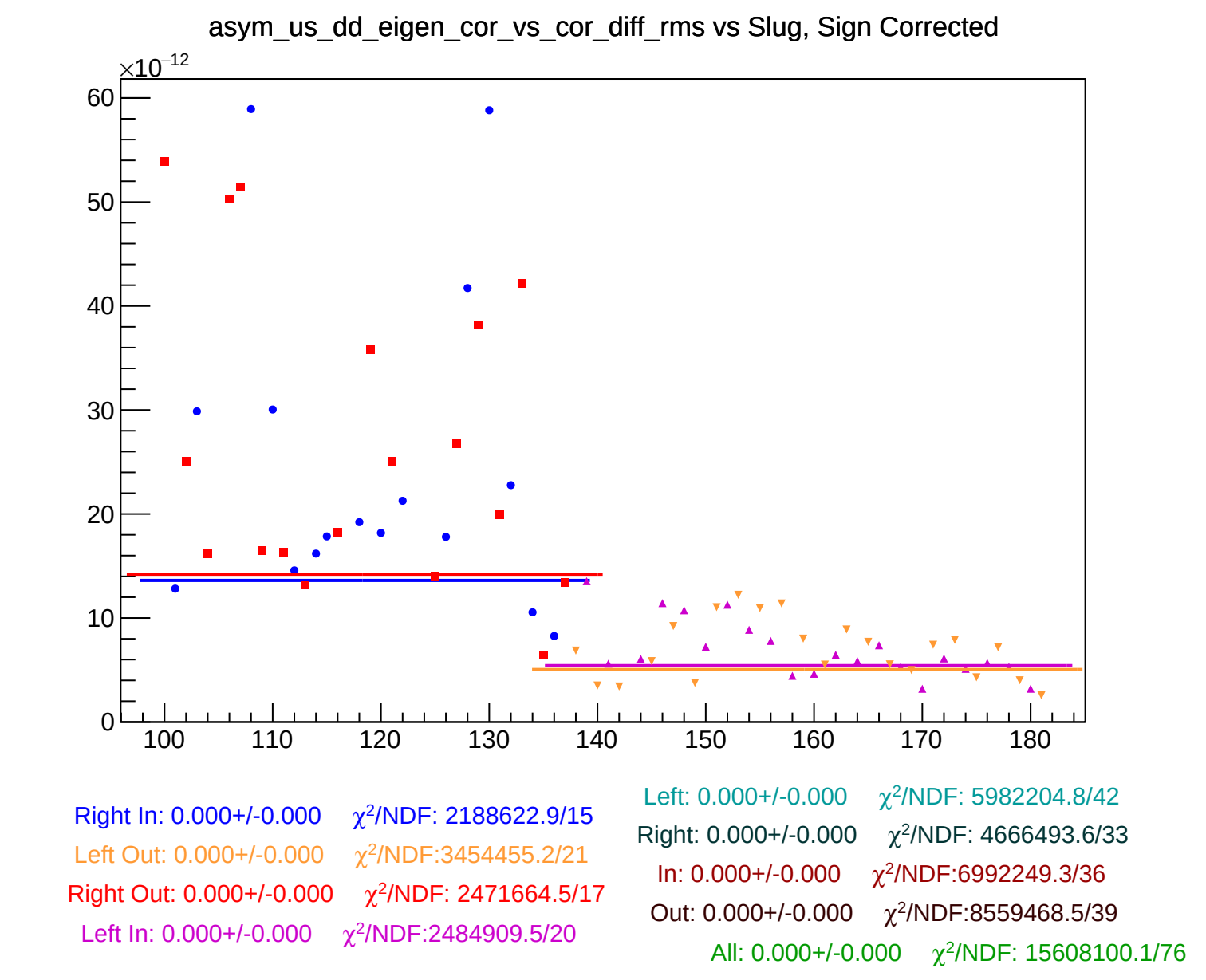
Left: 0.000+/-0.000 $\chi^2$/NDF: 29.0/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.7/33

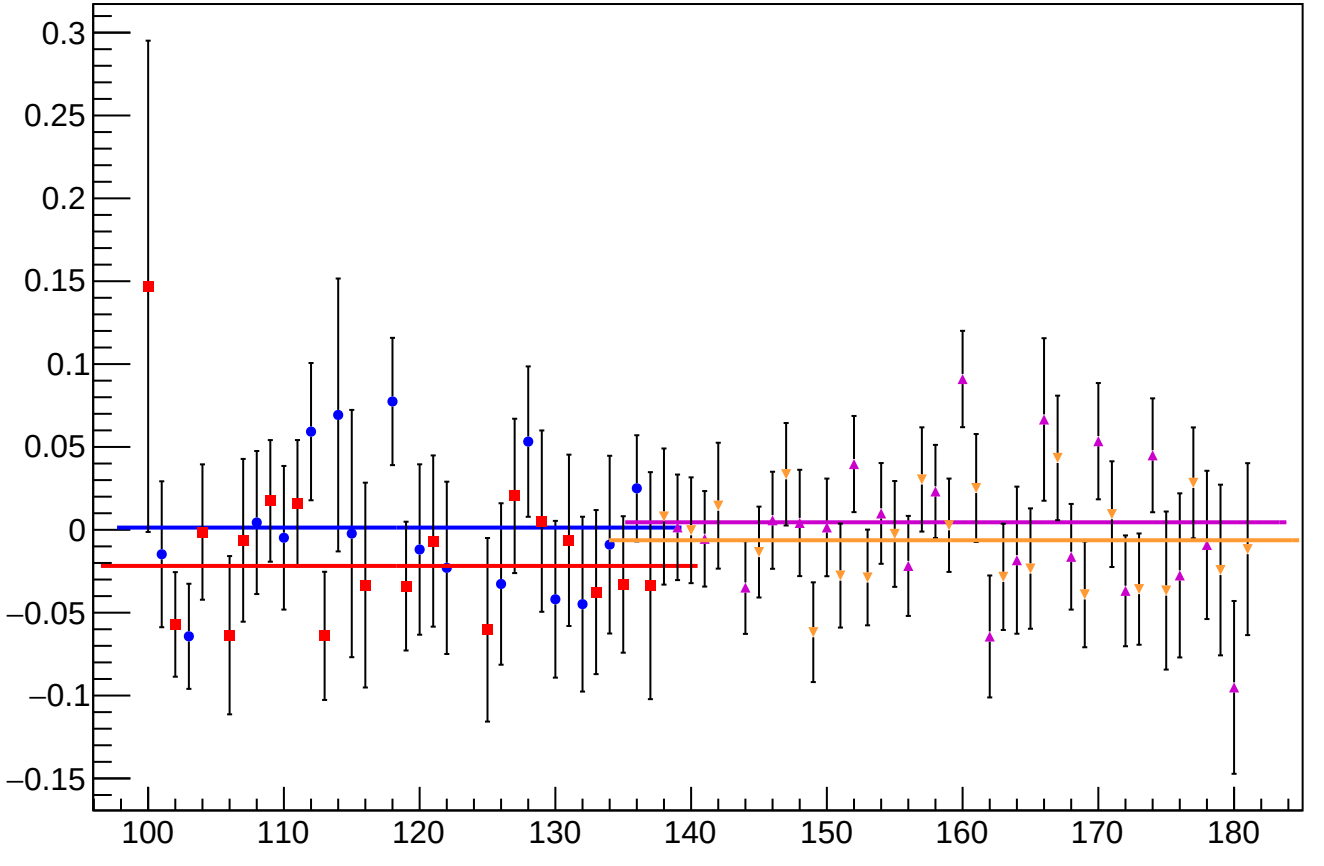
In: 0.000+/-0.000 $\chi^2$/NDF:24.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:35.1/39

All: 0.000+/-0.000 $\chi^2$/NDF: 59.8/76


asym_us_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2188622.9/15
Left Out: 0.000+/-0.000 χ²/NDF:3454455.2/21
Right Out: 0.000+/-0.000 χ²/NDF: 2471664.5/17
Left In: 0.000+/-0.000 χ²/NDF:2484909.5/20
Left: 0.000+/-0.000 χ²/NDF: 5982204.8/42
Right: 0.000+/-0.000 χ²/NDF: 4666493.6/33
In: 0.000+/-0.000 χ²/NDF:6992249.3/36
Out: 0.000+/-0.000 χ²/NDF:8559468.5/39
All: 0.000+/-0.000 χ²/NDF: 15608100.1/76

asym_us_dd_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.001+/-0.011 $\chi^2$/NDF: 15.3/15

Left Out: -0.006+/-0.007 $\chi^2$/NDF:15.2/21

Right Out: -0.022+/-0.011 $\chi^2$/NDF: 9.0/17

Left In: 0.005+/-0.007 $\chi^2$/NDF:28.5/20

Left: -0.001+/-0.005 $\chi^2$/NDF: 44.8/42

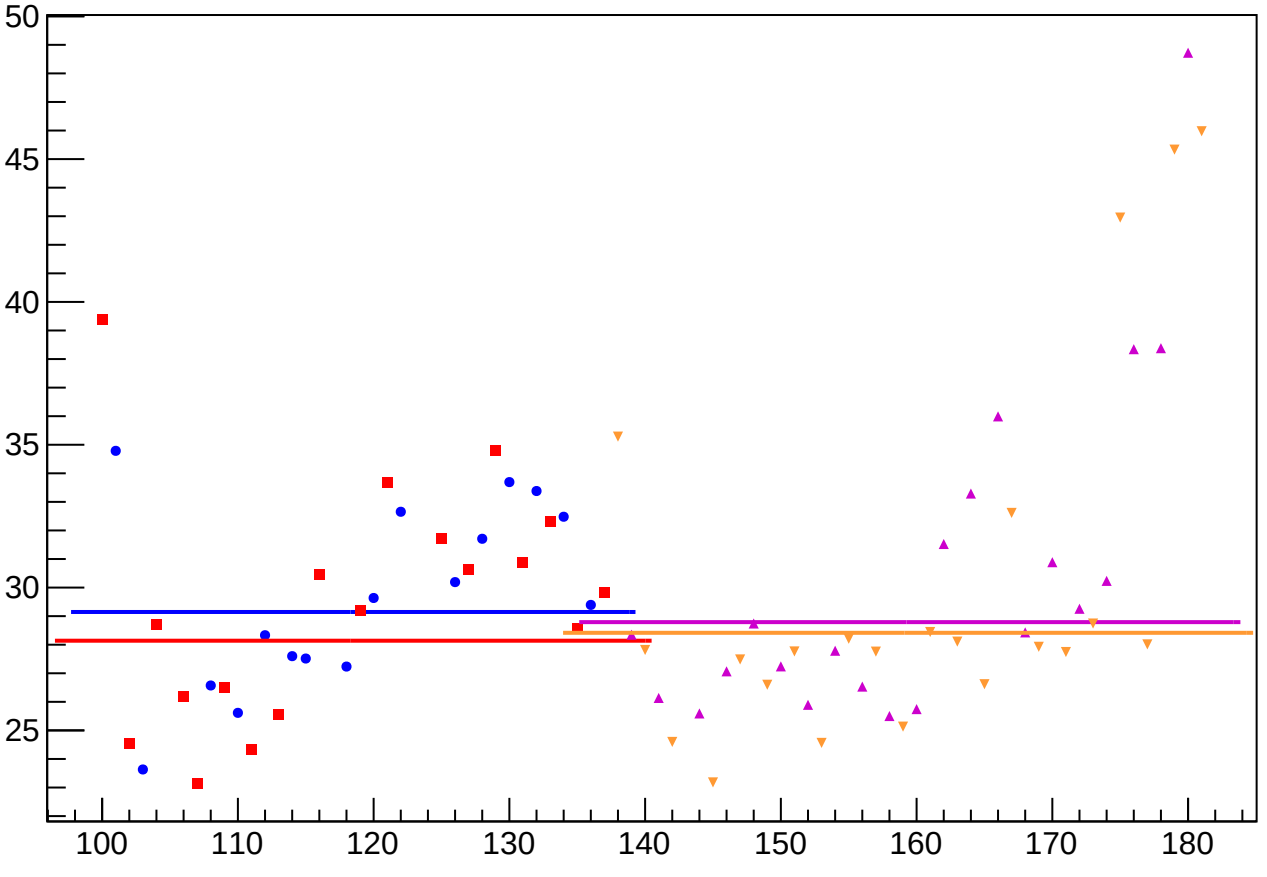
Right: -0.011+/-0.008 $\chi^2$/NDF: 26.5/33

In: 0.004+/-0.006 $\chi^2$/NDF:43.8/36

Out: -0.011+/-0.006 $\chi^2$/NDF:25.7/39

All: -0.004+/-0.004 $\chi^2$/NDF: 72.4/76

asym_us_dd_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.146+/-0.008 $\chi^2$/NDF: 176889.4/15

Left Out: 28.417+/-0.005 $\chi^2$/NDF:886347.4/21

Right Out: 28.140+/-0.008 $\chi^2$/NDF: 187103.8/17

Left In: 28.790+/-0.005 $\chi^2$/NDF:683414.4/20

Left: 28.601+/-0.004 $\chi^2$/NDF: 1572456.3/42

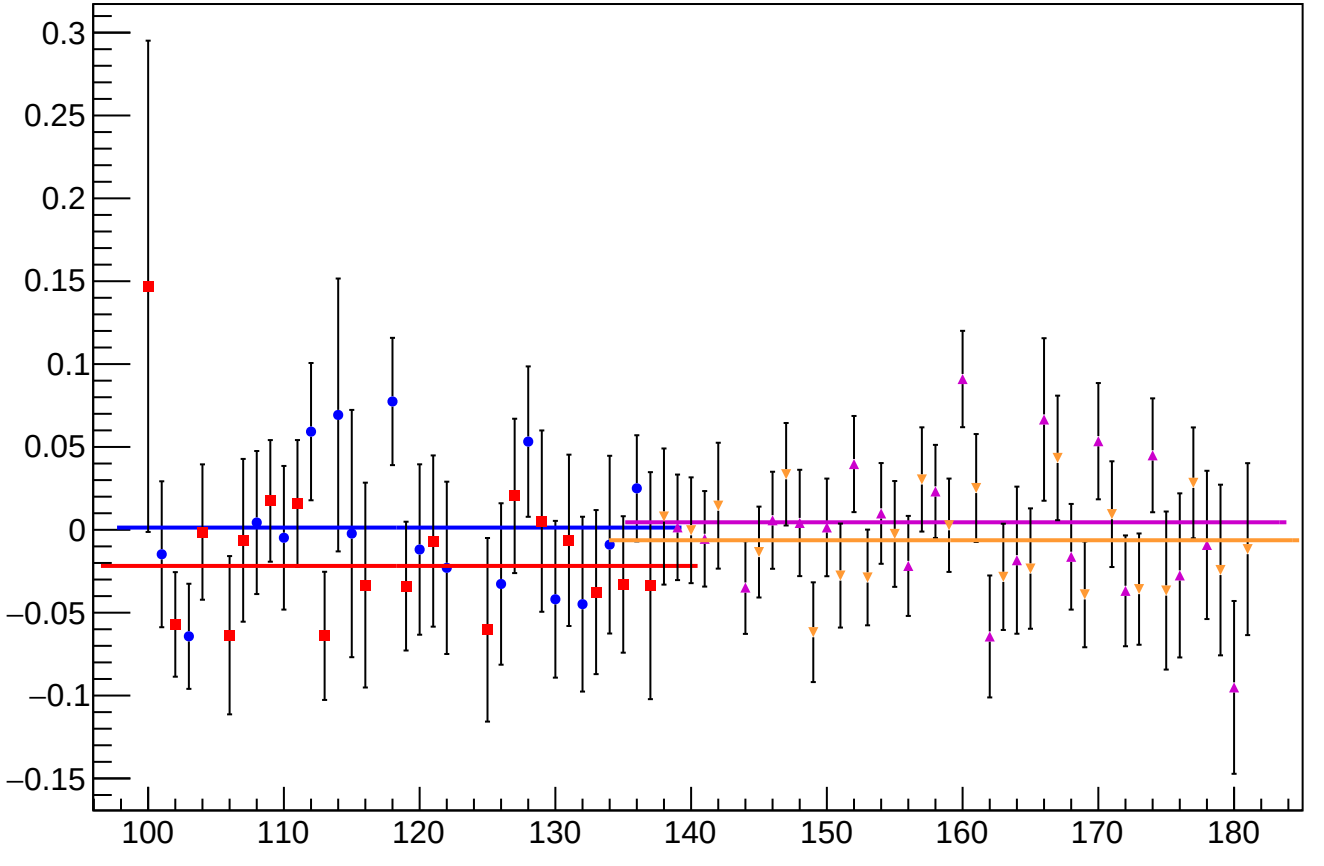
Right: 28.623+/-0.005 $\chi^2$/NDF: 372352.6/33

In: 28.895+/-0.004 $\chi^2$/NDF:861720.2/36

Out: 28.332+/-0.004 $\chi^2$/NDF:1074365.3/39

All: 28.608+/-0.003 $\chi^2$/NDF: 1944819.9/76

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.001+/-0.011 $\chi^2$/NDF: 15.3/15

Left Out: -0.006+/-0.007 $\chi^2$/NDF:15.2/21

Right Out: -0.022+/-0.011 $\chi^2$/NDF: 9.0/17

Left In: 0.005+/-0.007 $\chi^2$/NDF:28.5/20

Left: -0.001+/-0.005 $\chi^2$/NDF: 44.8/42

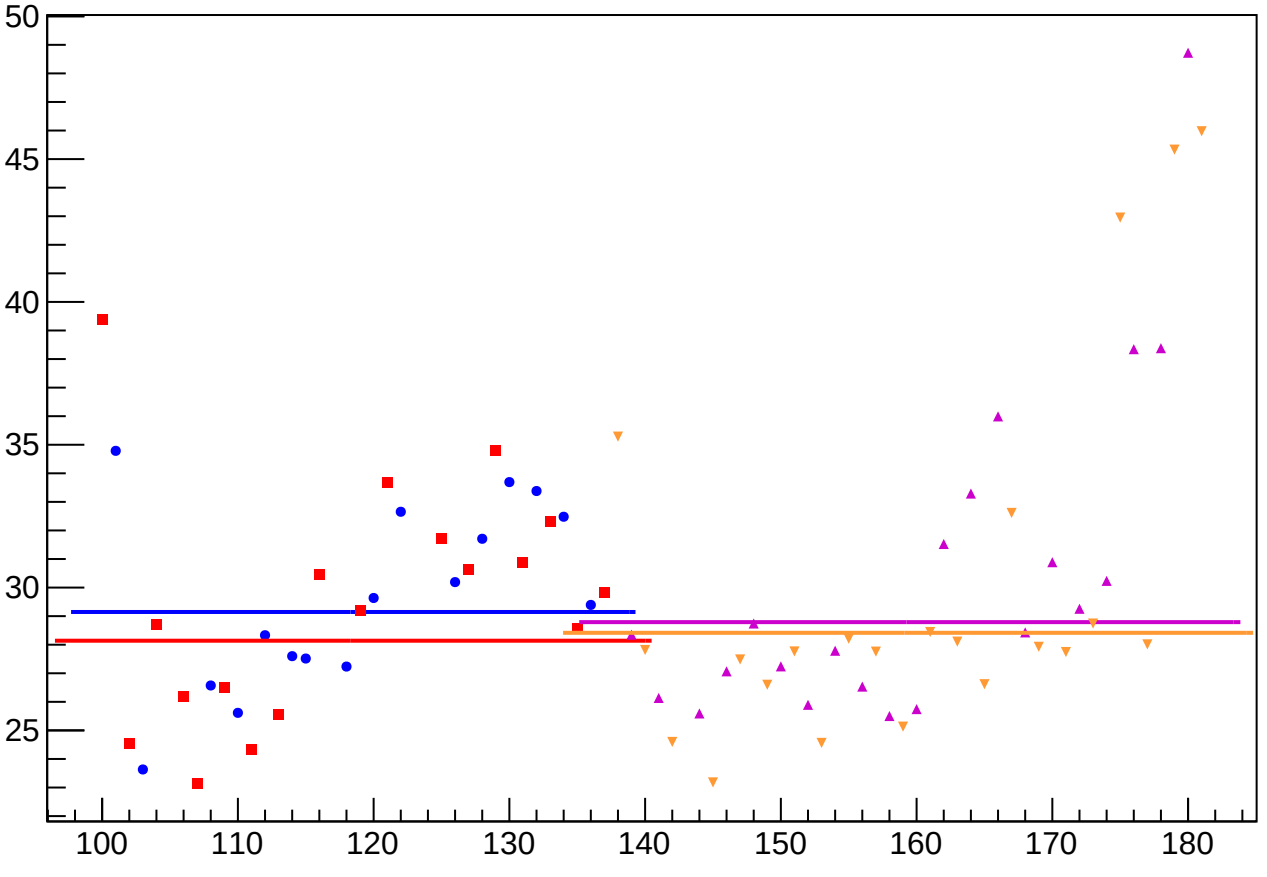
Right: -0.011+/-0.008 $\chi^2$/NDF: 26.5/33

In: 0.004+/-0.006 $\chi^2$/NDF:43.8/36

Out: -0.011+/-0.006 $\chi^2$/NDF:25.7/39

All: -0.004+/-0.004 $\chi^2$/NDF: 72.4/76

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.146+/-0.008 $\chi^2$/NDF: 176889.4/15

Left Out: 28.417+/-0.005 $\chi^2$/NDF:886347.4/21

Right Out: 28.140+/-0.008 $\chi^2$/NDF: 187103.8/17

Left In: 28.790+/-0.005 $\chi^2$/NDF:683414.4/20

Left: 28.601+/-0.004 $\chi^2$/NDF: 1572456.3/42

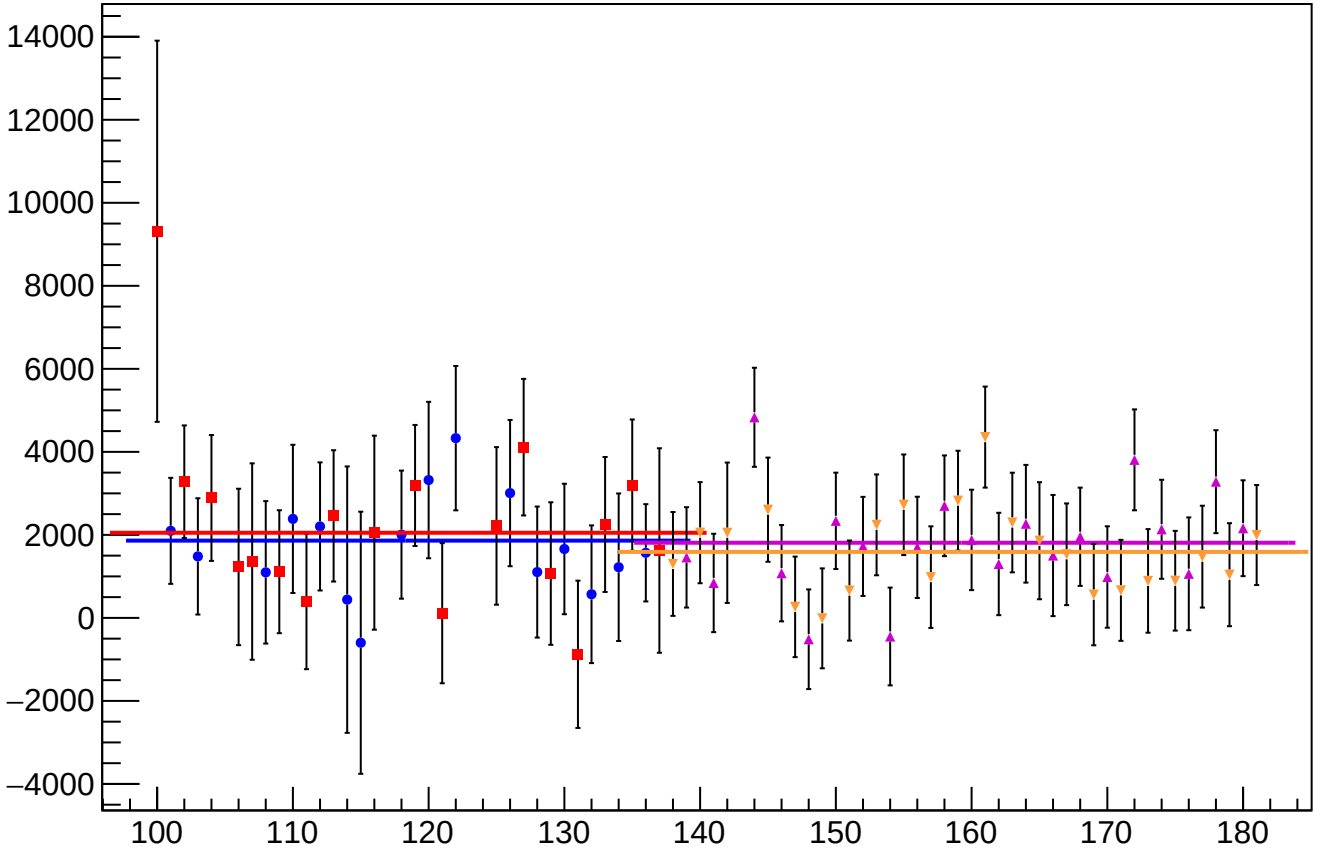
Right: 28.623+/-0.005 $\chi^2$/NDF: 372352.6/33

In: 28.895+/-0.004 $\chi^2$/NDF:861720.2/36

Out: 28.332+/-0.004 $\chi^2$/NDF:1074365.3/39

All: 28.608+/-0.003 $\chi^2$/NDF: 1944819.9/76

# reg_asym_usl_mean vs Slug, Sign Corrected




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1590.256+/-264.446 $\chi^2$/NDF:14.8/21

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 1810.675+/-266.627 $\chi^2$/NDF:21.1/20

Left: 1699.560+/-187.758 $\chi^2$/NDF: 36.2/42

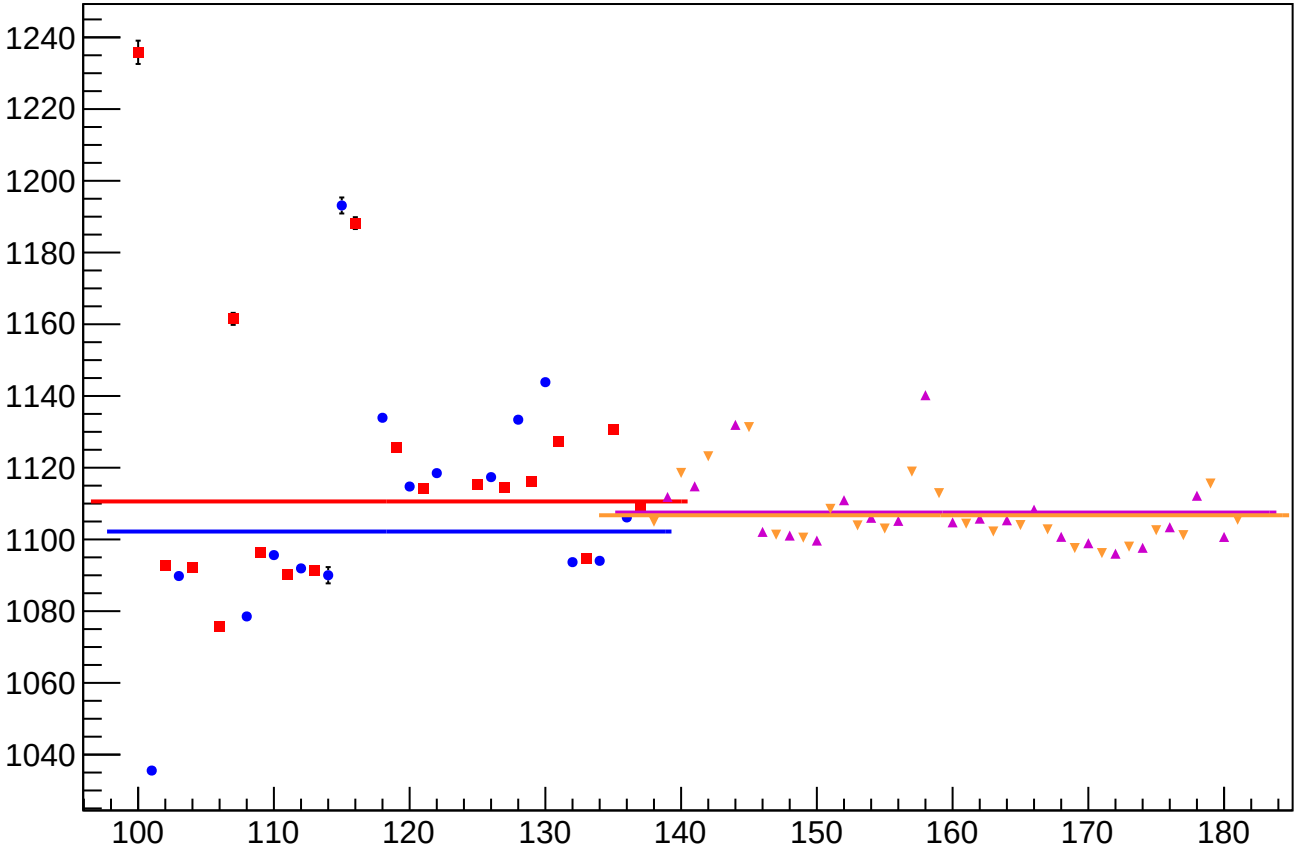
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1825.813+/-223.443 $\chi^2$/NDF:26.5/36

Out: 1725.923+/-222.111 $\chi^2$/NDF:28.2/39

All: 1775.569+/-157.525 $\chi^2$/NDF: 54.8/76

# reg_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1106.741+/-0.187 $\chi^2$/NDF:2119.9/21

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1107.496+/-0.189 $\chi^2$/NDF:3226.1/20

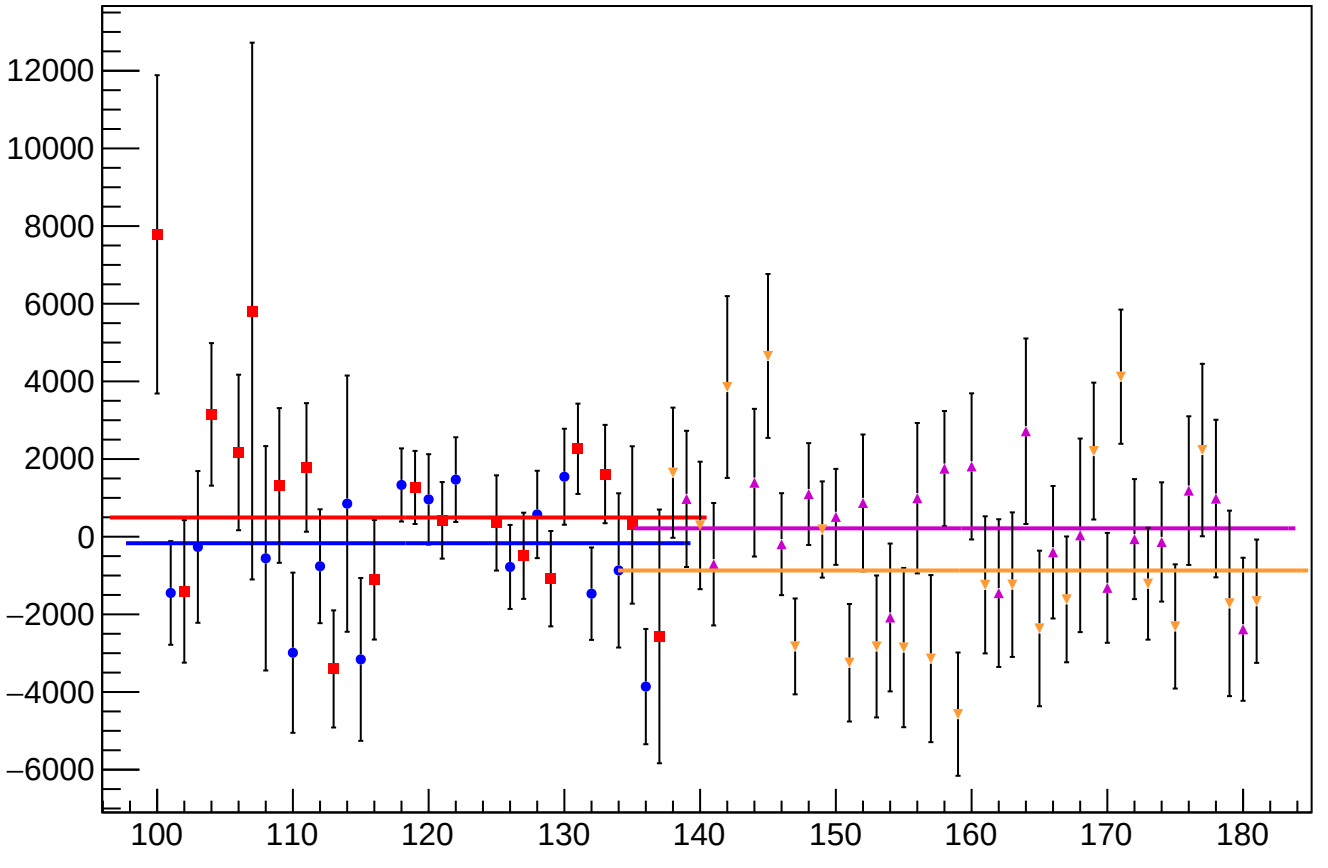
Left: 1107.115+/-0.133 $\chi^2$/NDF: 5354.1/42

Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1105.921+/-0.158 $\chi^2$/NDF:14809.5/36

Out: 1107.875+/-0.157 $\chi^2$/NDF:9940.8/39

All: 1106.904+/-0.111 $\chi^2$/NDF: 24827.3/76




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: -869.961+/-363.435 $\chi^2$/NDF:43.4/21

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 215.055+/-364.420 $\chi^2$/NDF:10.7/20

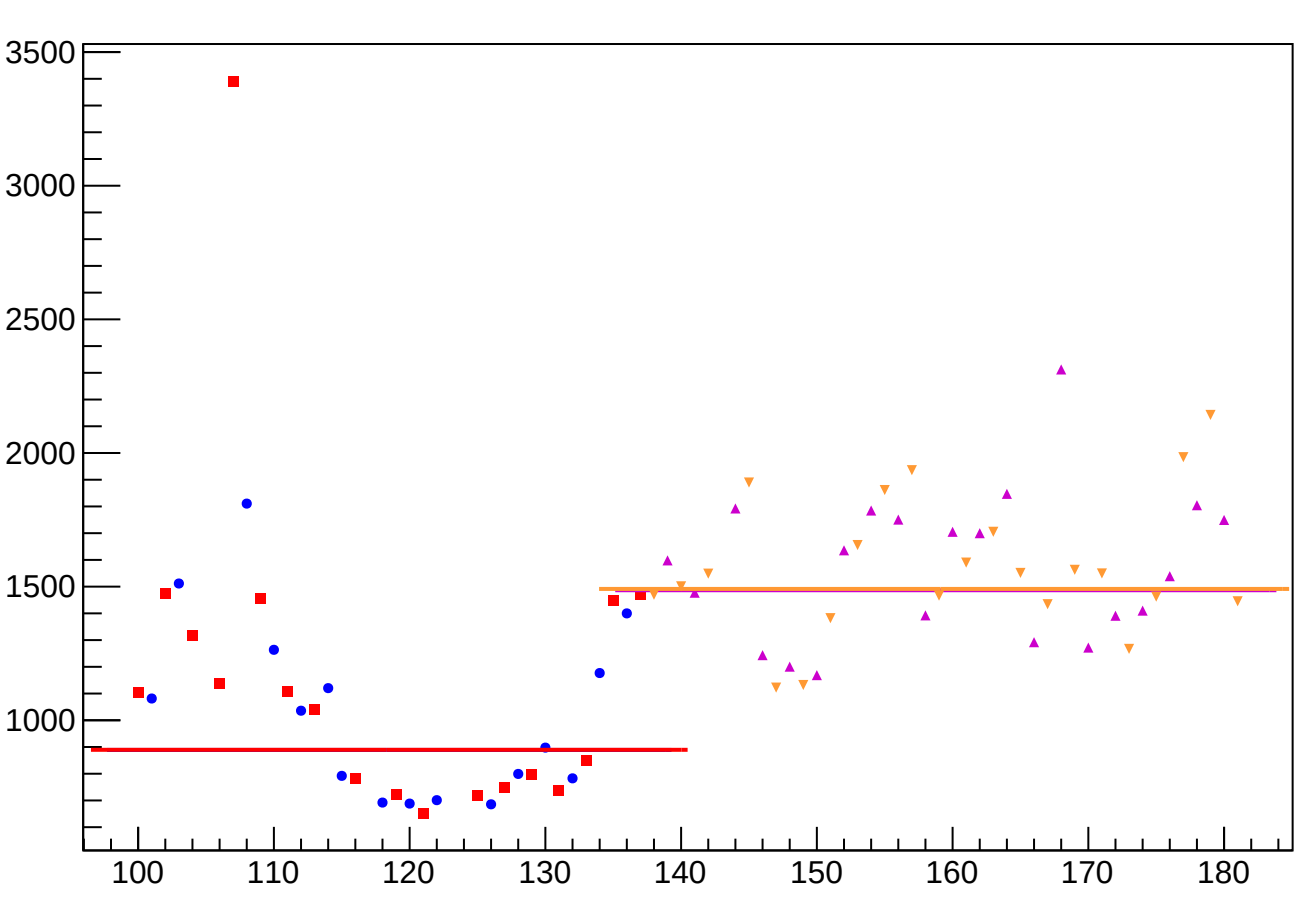
Left: -328.920+/-257.335 $\chi^2$/NDF: 58.6/42

Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: 13.351+/-250.705 $\chi^2$/NDF:32.3/36

Out: -152.001+/-250.236 $\chi^2$/NDF:74.1/39

All: -69.480+/-177.109 $\chi^2$/NDF: 106.7/76




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1491.421+/-0.257 $\chi^2$/NDF:937681.6/21

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1486.551+/-0.258 $\chi^2$/NDF:957679.4/20

Left: 1488.992+/-0.182 $\chi^2$/NDF: 1895540.0/42

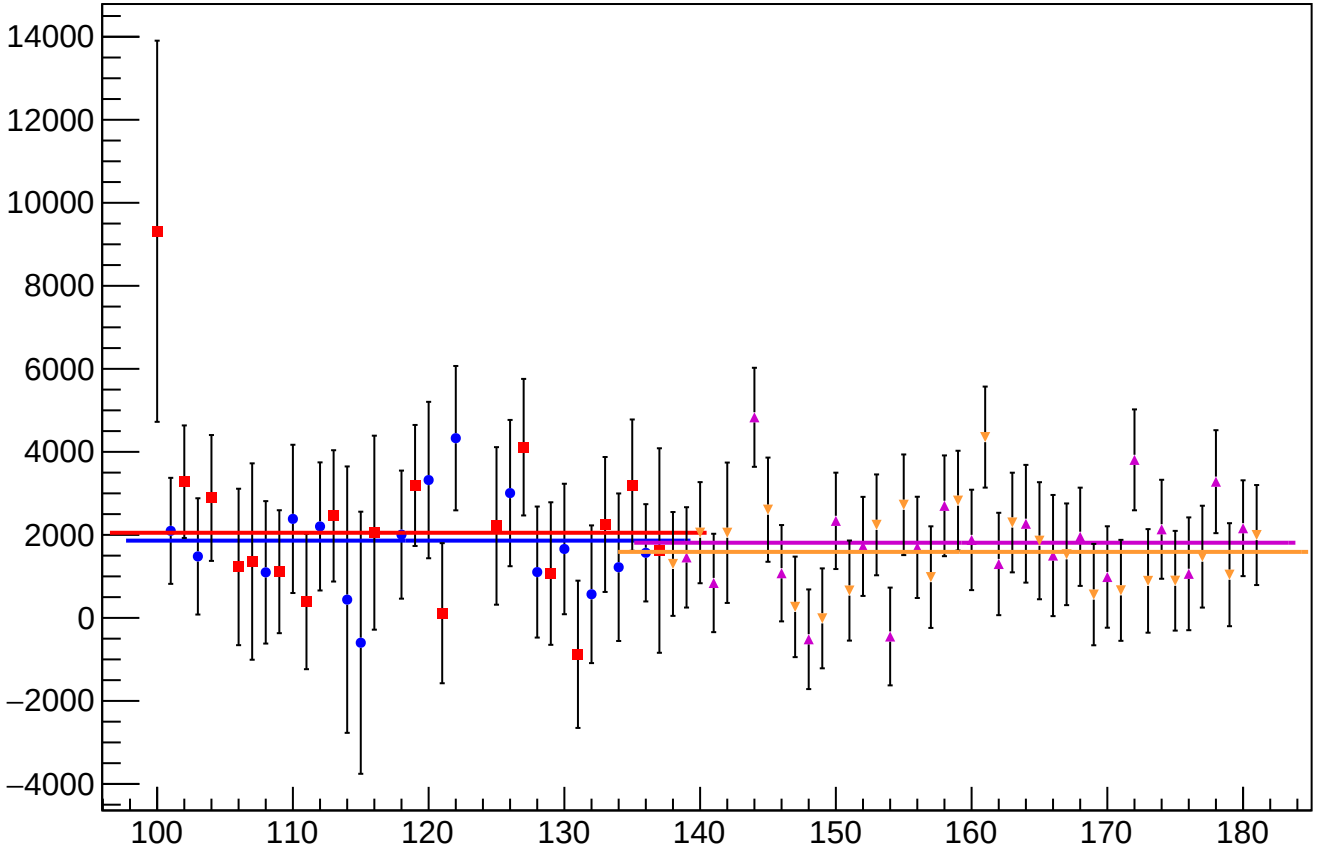
Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 1171.788+/-0.177 $\chi^2$/NDF:4923251.0/36

Out: 1174.843+/-0.177 $\chi^2$/NDF:5168868.7/39

All: 1173.318+/-0.125 $\chi^2$/NDF: 10092268.5/7

# cor_asym_usl_mean vs Slug, Sign Corrected




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1590.256+/-264.446 $\chi^2$/NDF:14.8/21

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 1810.675+/-266.627 $\chi^2$/NDF:21.1/20

Left: 1699.560+/-187.758 $\chi^2$/NDF: 36.2/42

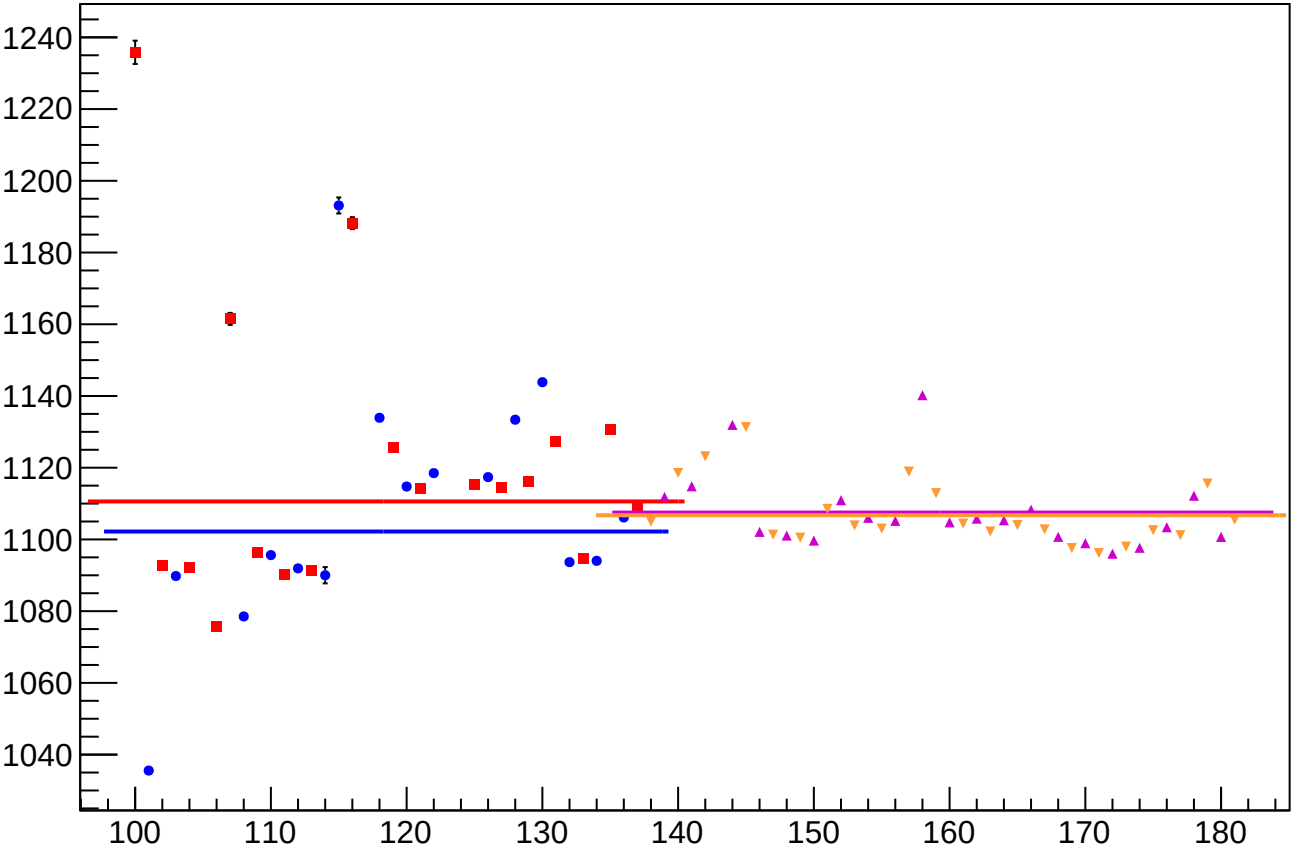
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1825.813+/-223.443 $\chi^2$/NDF:26.5/36

Out: 1725.923+/-222.111 $\chi^2$/NDF:28.2/39

All: 1775.569+/-157.525 $\chi^2$/NDF: 54.8/76

# cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1106.741+/-0.187 $\chi^2$/NDF:2119.9/21

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1107.496+/-0.189 $\chi^2$/NDF:3226.1/20

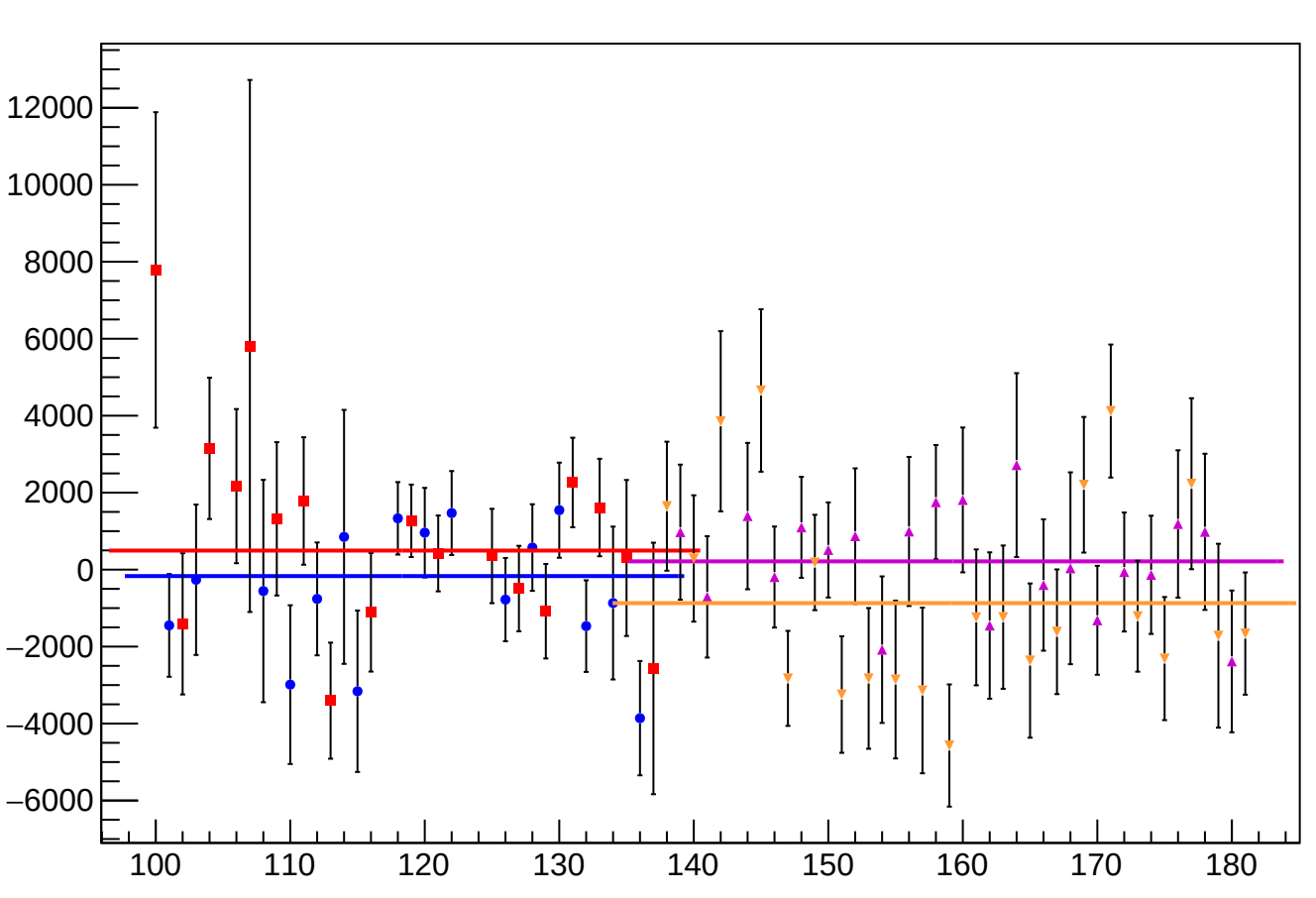
Left: 1107.115+/-0.133 $\chi^2$/NDF: 5354.1/42

Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1105.921+/-0.158 $\chi^2$/NDF:14809.5/36

Out: 1107.875+/-0.157 $\chi^2$/NDF:9940.8/39

All: 1106.904+/-0.111 $\chi^2$/NDF: 24827.3/76




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: -869.961+/-363.435 $\chi^2$/NDF:43.4/21

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 215.055+/-364.420 $\chi^2$/NDF:10.7/20

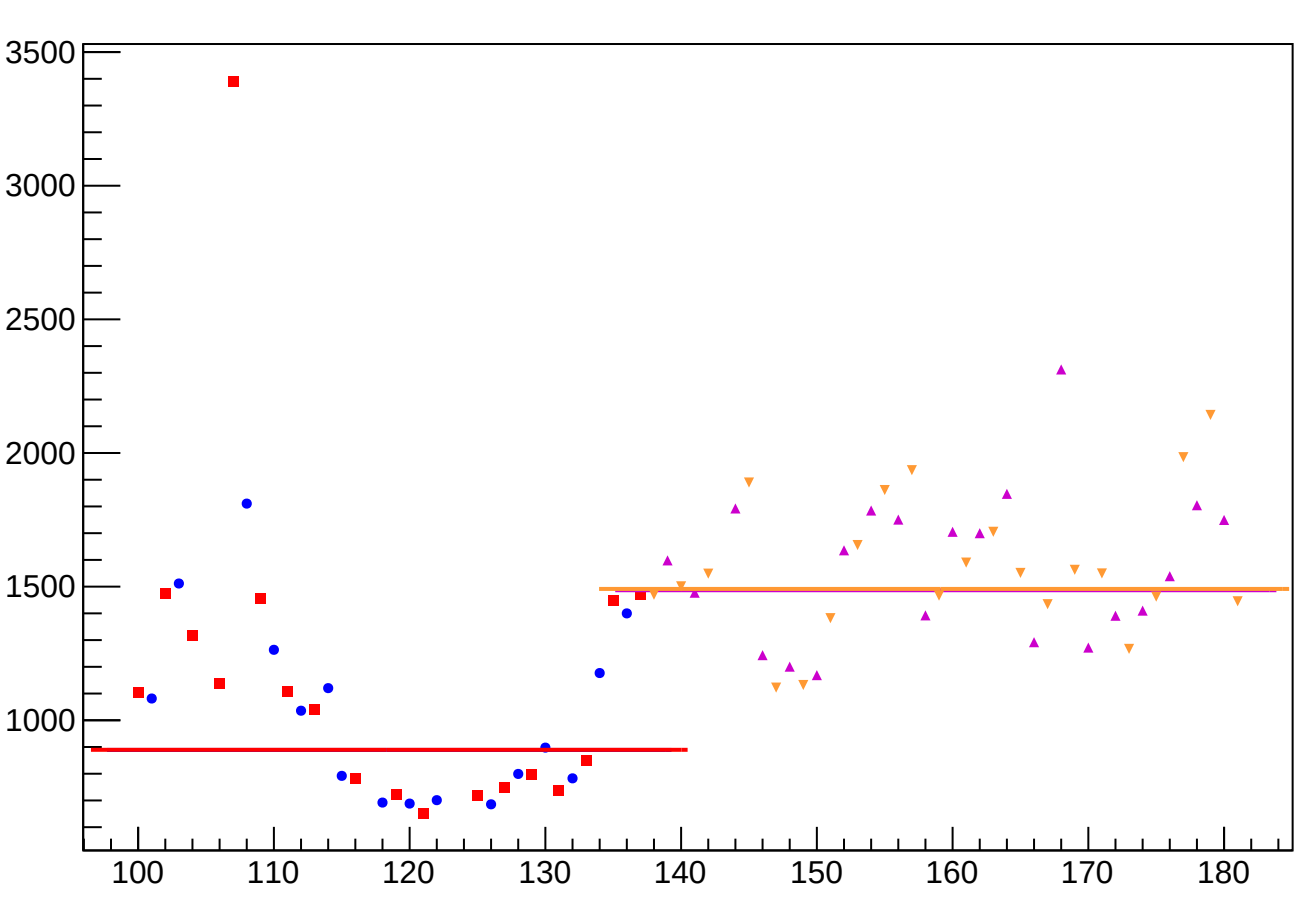
Left: -328.920+/-257.335 $\chi^2$/NDF: 58.6/42

Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: 13.351+/-250.705 $\chi^2$/NDF:32.3/36

Out: -152.001+/-250.236 $\chi^2$/NDF:74.1/39

All: -69.480+/-177.109 $\chi^2$/NDF: 106.7/76




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1491.421+/-0.257 $\chi^2$/NDF:937681.6/21

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1486.551+/-0.258 $\chi^2$/NDF:957679.4/20

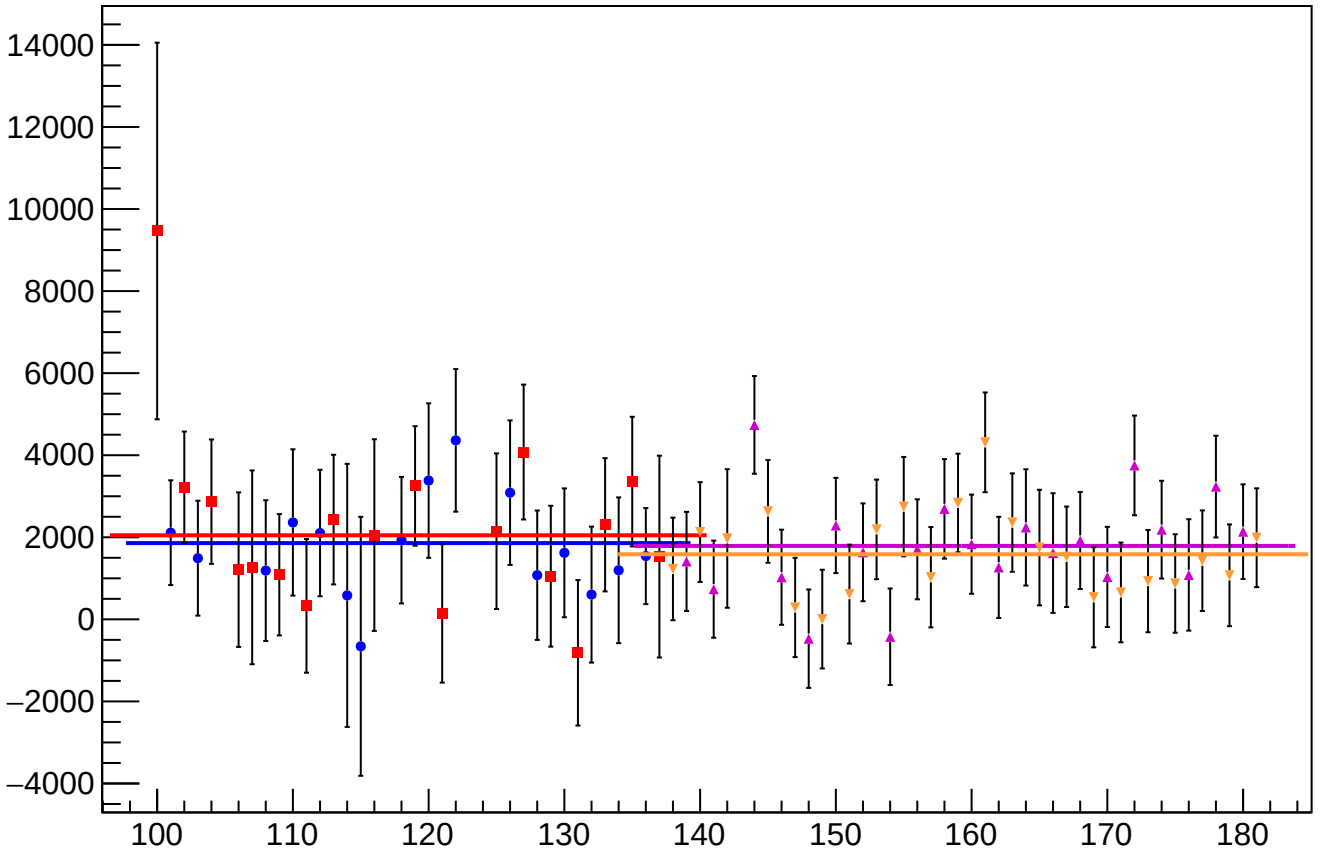
Left: 1488.992+/-0.182 $\chi^2$/NDF: 1895540.0/42

Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 1171.788+/-0.177 $\chi^2$/NDF:4923251.0/36

Out: 1174.843+/-0.177 $\chi^2$/NDF:5168868.7/39

All: 1173.318+/-0.125 $\chi^2$/NDF: 10092268.5/7




Right In: 1858.683+/-409.170 $\chi^2$/NDF: 5.4/15

Left Out: 1586.183+/-264.192 $\chi^2$/NDF:14.7/21

Right Out: 2048.674+/-408.894 $\chi^2$/NDF: 12.7/17

Left In: 1789.108+/-266.375 $\chi^2$/NDF:20.4/20

Left: 1686.810+/-187.579 $\chi^2$/NDF: 35.5/42

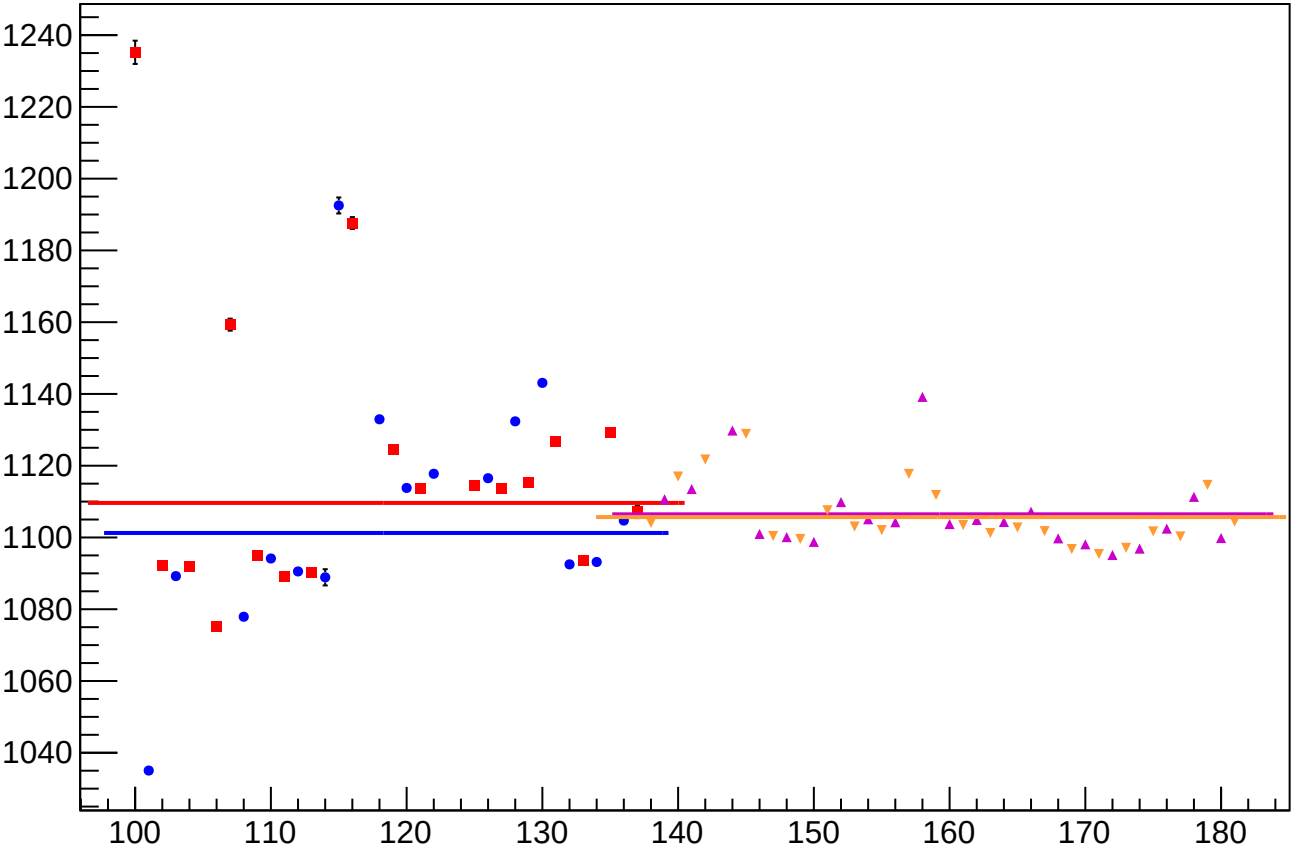
Right: 1953.743+/-289.229 $\chi^2$/NDF: 18.3/33

In: 1809.818+/-223.237 $\chi^2$/NDF:25.9/36

Out: 1722.394+/-221.903 $\chi^2$/NDF:28.4/39

All: 1765.844+/-157.379 $\chi^2$/NDF: 54.4/76

# overload_cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1101.254+/-0.289 $\chi^2$/NDF: 11308.3/15

Left Out: 1105.684+/-0.187 $\chi^2$/NDF:1985.1/21

Right Out: 1109.629+/-0.289 $\chi^2$/NDF: 7673.1/17

Left In: 1106.452+/-0.188 $\chi^2$/NDF:3128.8/20

Left: 1106.065+/-0.133 $\chi^2$/NDF: 5122.3/42

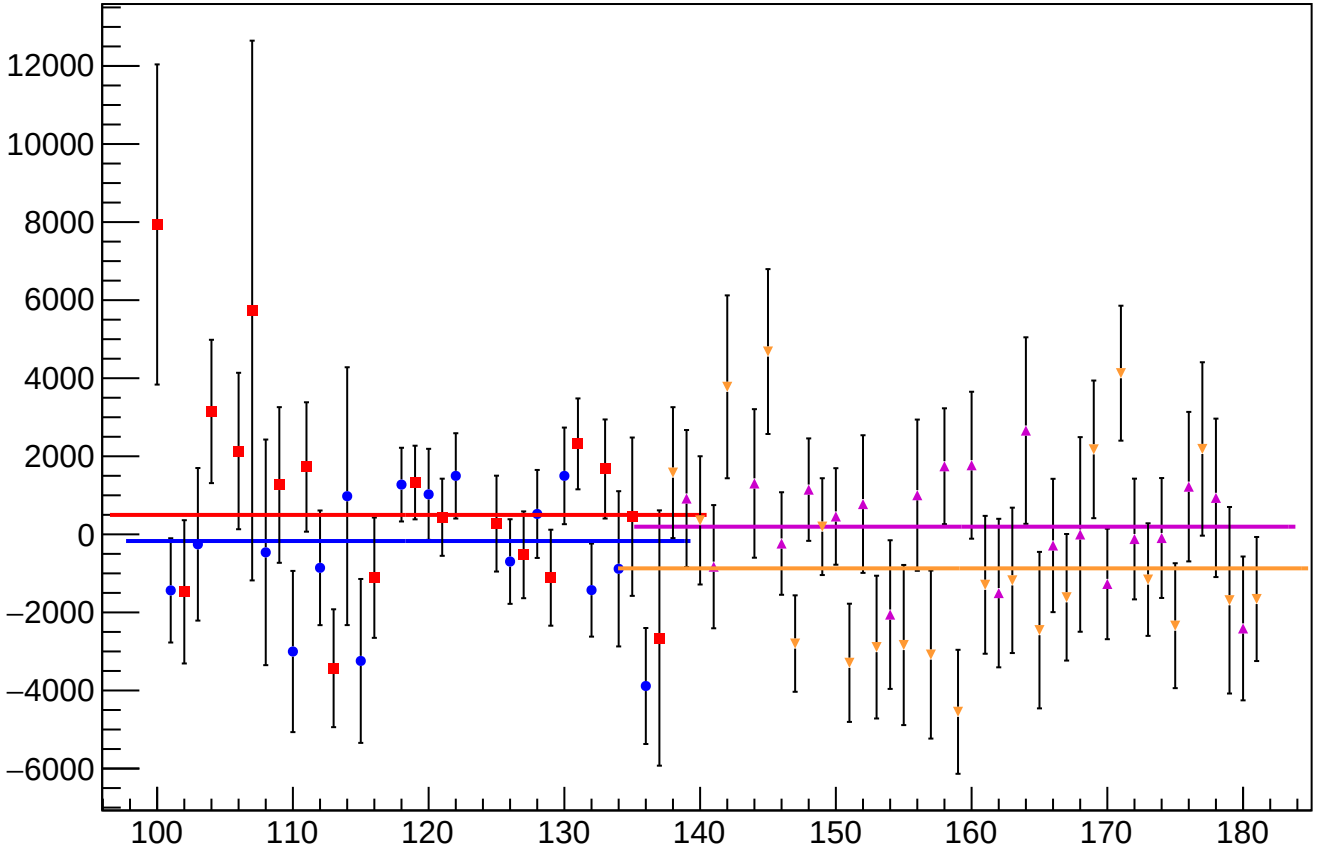
Right: 1105.444+/-0.205 $\chi^2$/NDF: 19400.5/33

In: 1104.905+/-0.158 $\chi^2$/NDF:14663.7/36

Out: 1106.846+/-0.157 $\chi^2$/NDF:9789.5/39

All: 1105.881+/-0.111 $\chi^2$/NDF: 24529.3/76

asym_usl_overload_cor_correction_mean vs Slug, Sign Corrected




Right In: -170.930+/-345.980 $\chi^2$/NDF: 20.9/15

Left Out: -871.047+/-363.637 $\chi^2$/NDF:43.2/21

Right Out: 497.957+/-345.565 $\chi^2$/NDF: 23.9/17

Left In: 196.191+/-364.621 $\chi^2$/NDF:10.6/20

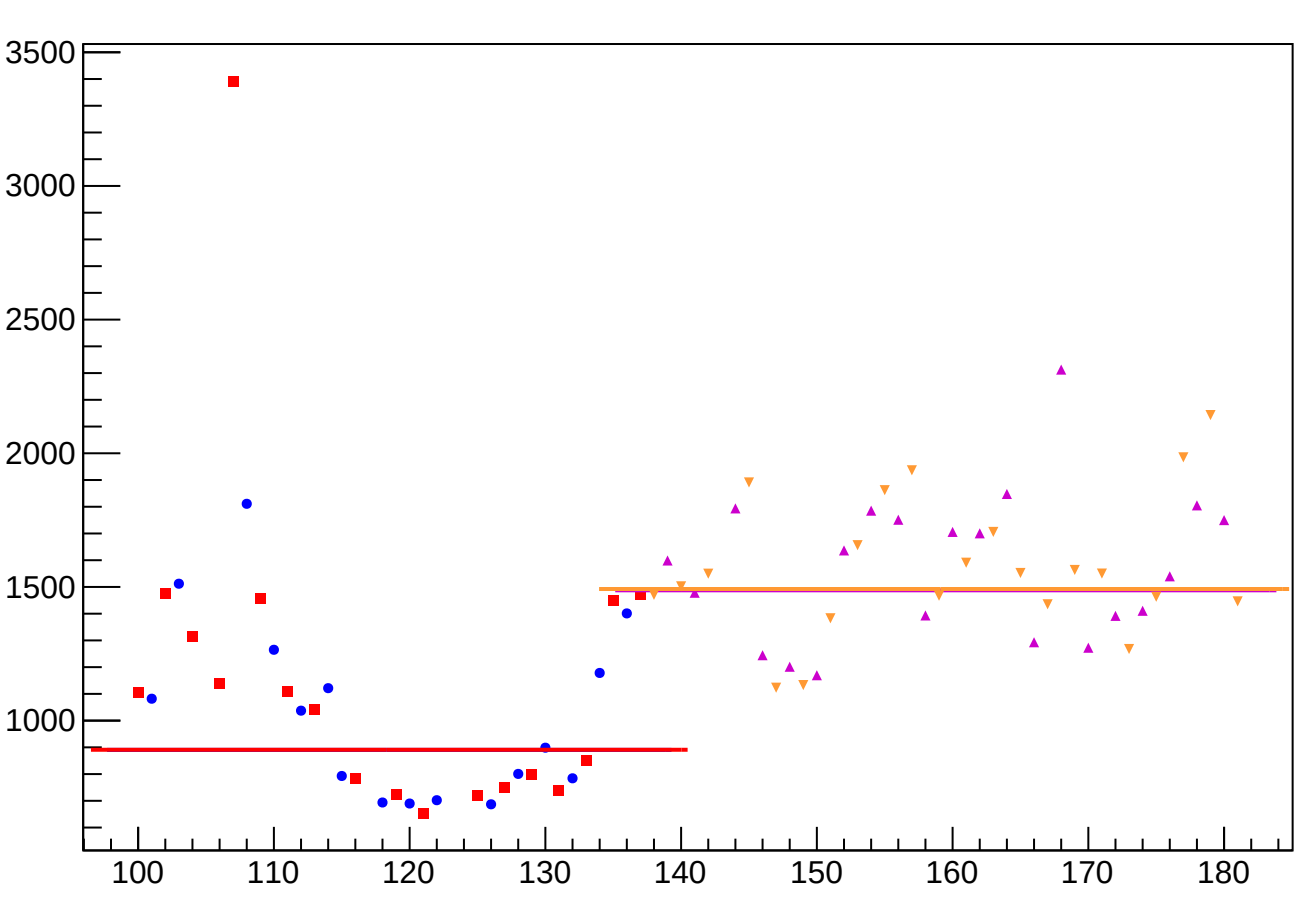
Left: -338.871+/-257.477 $\chi^2$/NDF: 58.1/42

Right: 163.915+/-244.498 $\chi^2$/NDF: 46.7/33

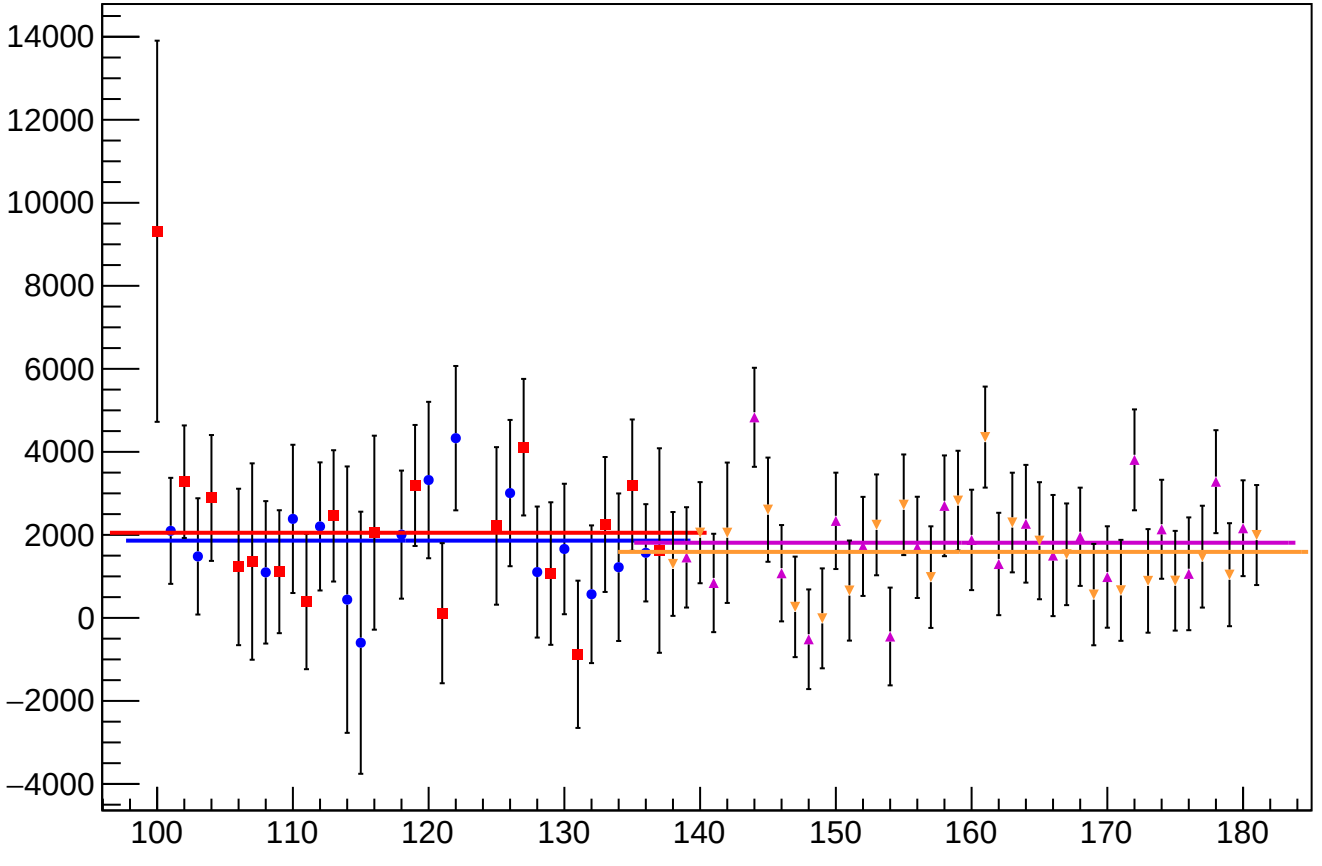
In: 3.007+/-250.976 $\chi^2$/NDF:32.0/36

Out: -151.684+/-250.497 $\chi^2$/NDF:74.6/39

All: -74.486+/-177.297 $\chi^2$/NDF: 106.8/76


asym_usl_overload_cor_correction_rms vs Slug, Sign Corrected
3500
3000
2500
2000
1500
1000
100
110
120
130
140
150
160
170
180
Right In: 890.495+/-0.245 χ²/NDF: 1128739.3/15
Left Out: 1492.293+/-0.257 χ²/NDF:936197.6/21
Right Out: 890.938+/-0.244 χ²/NDF: 1341804.2/17
Left In: 1487.414+/-0.258 χ²/NDF:956155.8/20
Left: 1489.860+/-0.182 χ²/NDF: 1892532.9/42
Right: 890.717+/-0.173 χ²/NDF: 2470545.1/33
In: 1173.307+/-0.177 χ²/NDF:4905491.1/36
Out: 1176.302+/-0.177 χ²/NDF:5152085.7/39
All: 1174.807+/-0.125 χ²/NDF: 10057719.5/7

# eigen_cor_asym_usl_mean vs Slug, Sign Corrected




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1590.256+/-264.446 $\chi^2$/NDF:14.8/21

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 1810.675+/-266.627 $\chi^2$/NDF:21.1/20

Left: 1699.560+/-187.758 $\chi^2$/NDF: 36.2/42

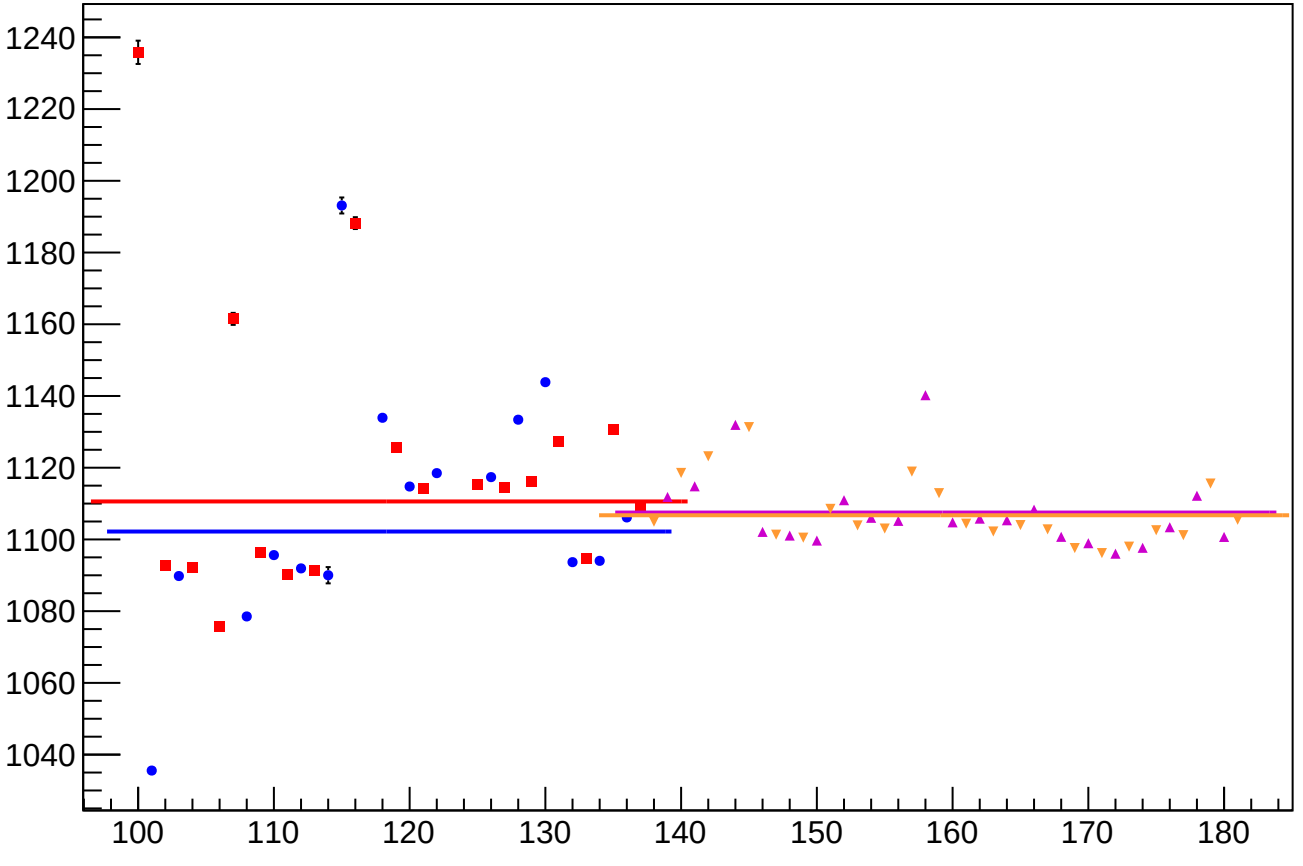
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1825.813+/-223.443 $\chi^2$/NDF:26.5/36

Out: 1725.923+/-222.111 $\chi^2$/NDF:28.2/39

All: 1775.569+/-157.525 $\chi^2$/NDF: 54.8/76

# eigen_cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1106.741+/-0.187 $\chi^2$/NDF:2119.9/21

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1107.496+/-0.189 $\chi^2$/NDF:3226.1/20

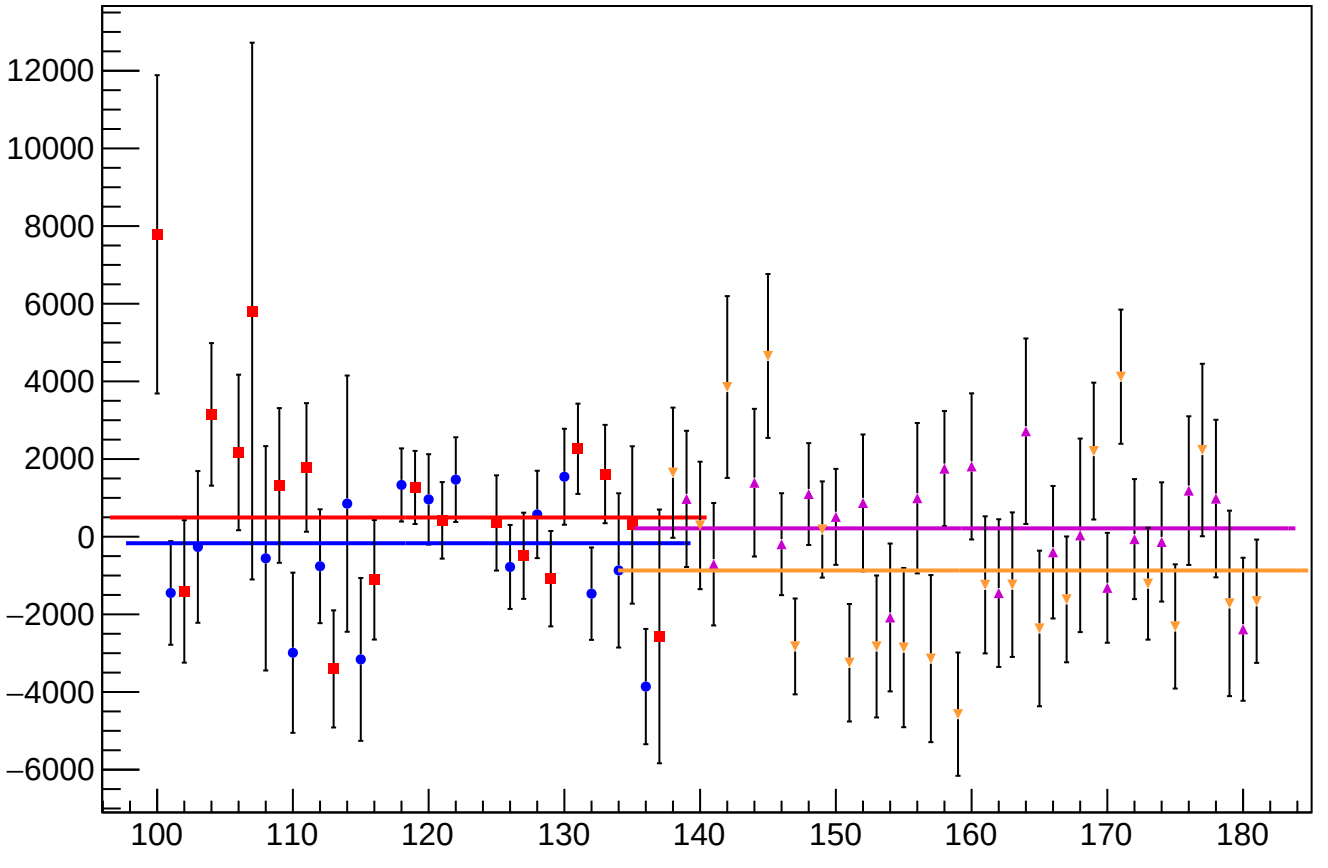
Left: 1107.115+/-0.133 $\chi^2$/NDF: 5354.1/42

Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1105.921+/-0.158 $\chi^2$/NDF:14809.5/36

Out: 1107.875+/-0.157 $\chi^2$/NDF:9940.8/39

All: 1106.904+/-0.111 $\chi^2$/NDF: 24827.3/76




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: -869.961+/-363.435 $\chi^2$/NDF:43.4/21

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 215.055+/-364.420 $\chi^2$/NDF:10.7/20

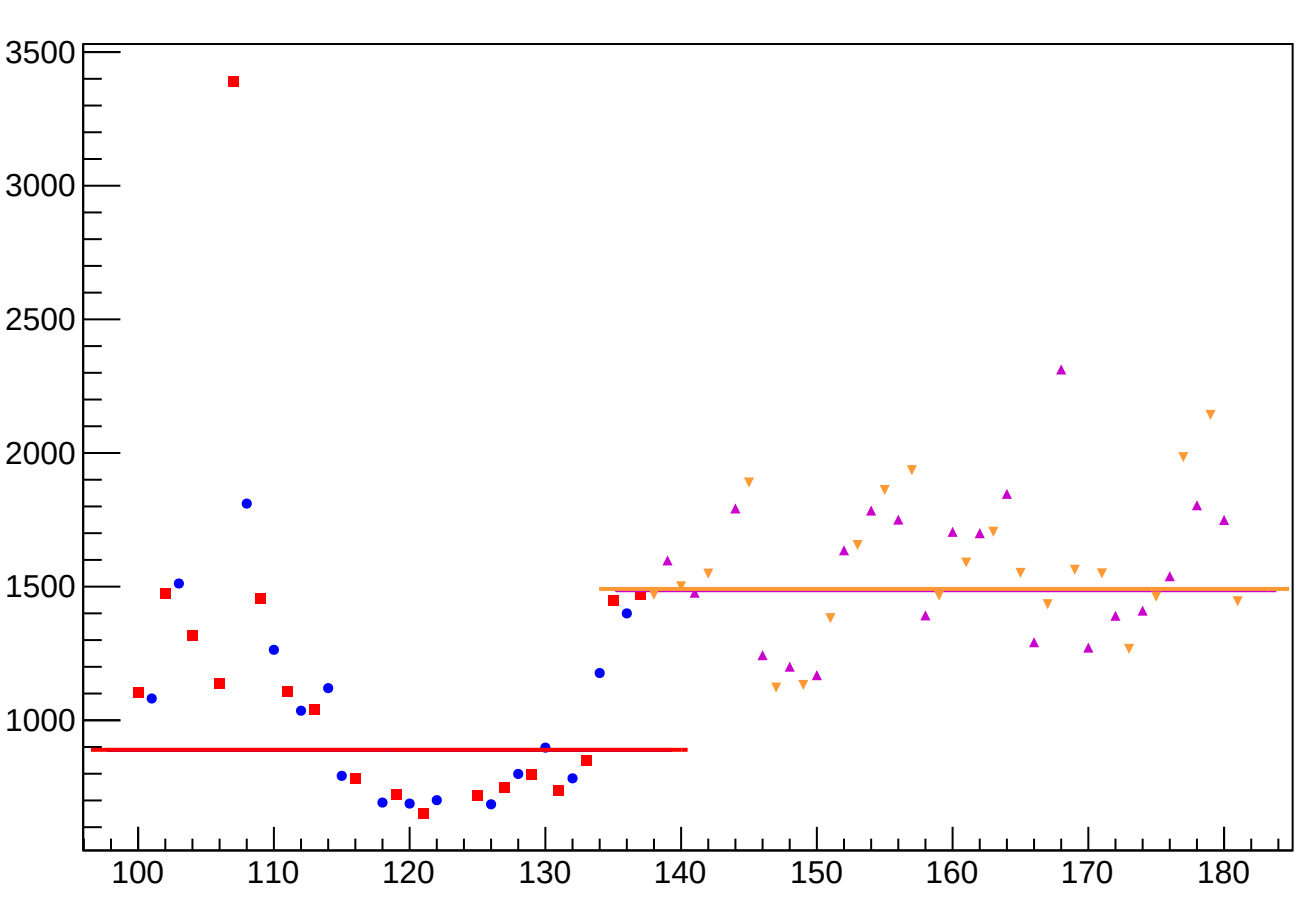
Left: -328.920+/-257.335 $\chi^2$/NDF: 58.6/42

Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: 13.351+/-250.705 $\chi^2$/NDF:32.3/36

Out: -152.001+/-250.236 $\chi^2$/NDF:74.1/39

All: -69.480+/-177.109 $\chi^2$/NDF: 106.7/76




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1491.421+/-0.257 $\chi^2$/NDF:937681.6/21

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1486.551+/-0.258 $\chi^2$/NDF:957679.4/20

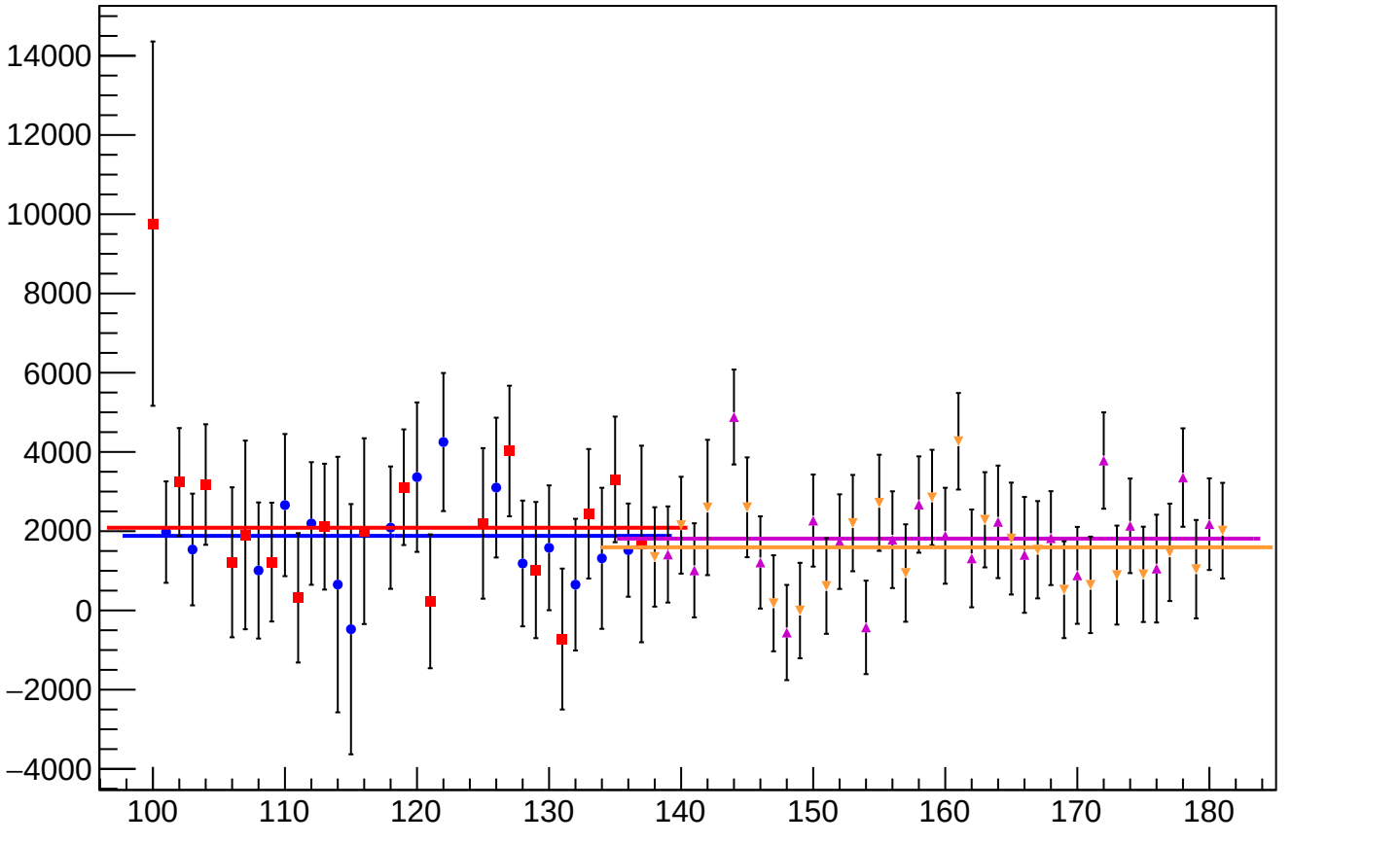
Left: 1488.992+/-0.182 $\chi^2$/NDF: 1895540.0/42

Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 1171.788+/-0.177 $\chi^2$/NDF:4923251.0/36

Out: 1174.843+/-0.177 $\chi^2$/NDF:5168868.7/39

All: 1173.318+/-0.125 $\chi^2$/NDF: 10092268.5/7




Right In: 1881.524+/-410.700 $\chi^2$/NDF: 5.2/15

Left Out: 1593.550+/-264.947 $\chi^2$/NDF:15.0/21

Right Out: 2086.886+/-410.785 $\chi^2$/NDF: 12.4/17

Left In: 1812.456+/-267.068 $\chi^2$/NDF:21.1/20

Left: 1702.130+/-188.091 $\chi^2$/NDF: 36.5/42

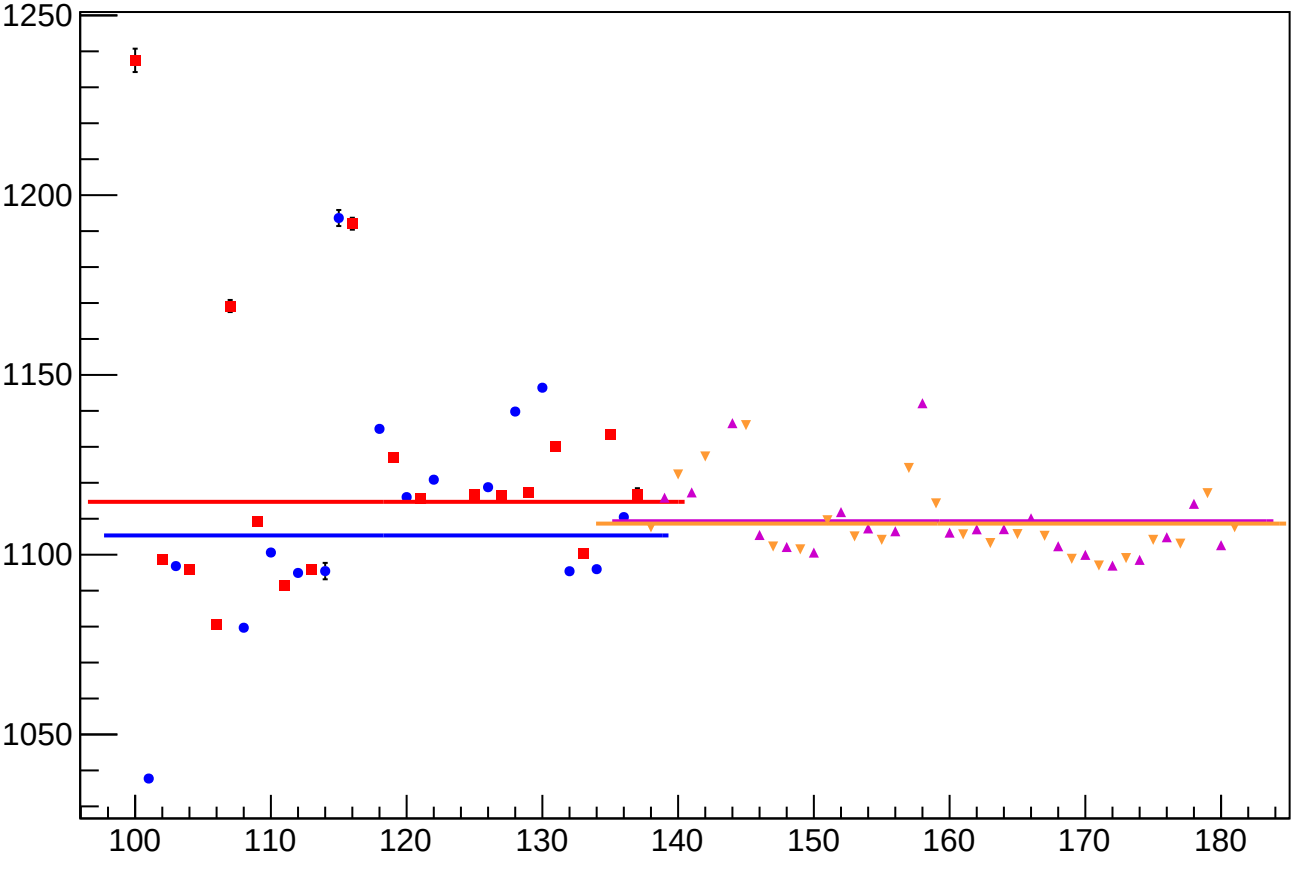
Right: 1984.184+/-290.439 $\chi^2$/NDF: 17.7/33

In: 1832.982+/-223.893 $\chi^2$/NDF:26.3/36

Out: 1738.484+/-222.653 $\chi^2$/NDF:28.4/39

All: 1785.471+/-157.876 $\chi^2$/NDF: 54.8/76

# dit_asym_usl_rms vs Slug, Sign Corrected




Right In: 1105.355+/-0.290 $\chi^2$/NDF: 11330.9/15

Left Out: 1108.650+/-0.187 $\chi^2$/NDF:2637.2/21

Right Out: 1114.705+/-0.290 $\chi^2$/NDF: 7330.3/17

Left In: 1109.305+/-0.189 $\chi^2$/NDF:3572.5/20

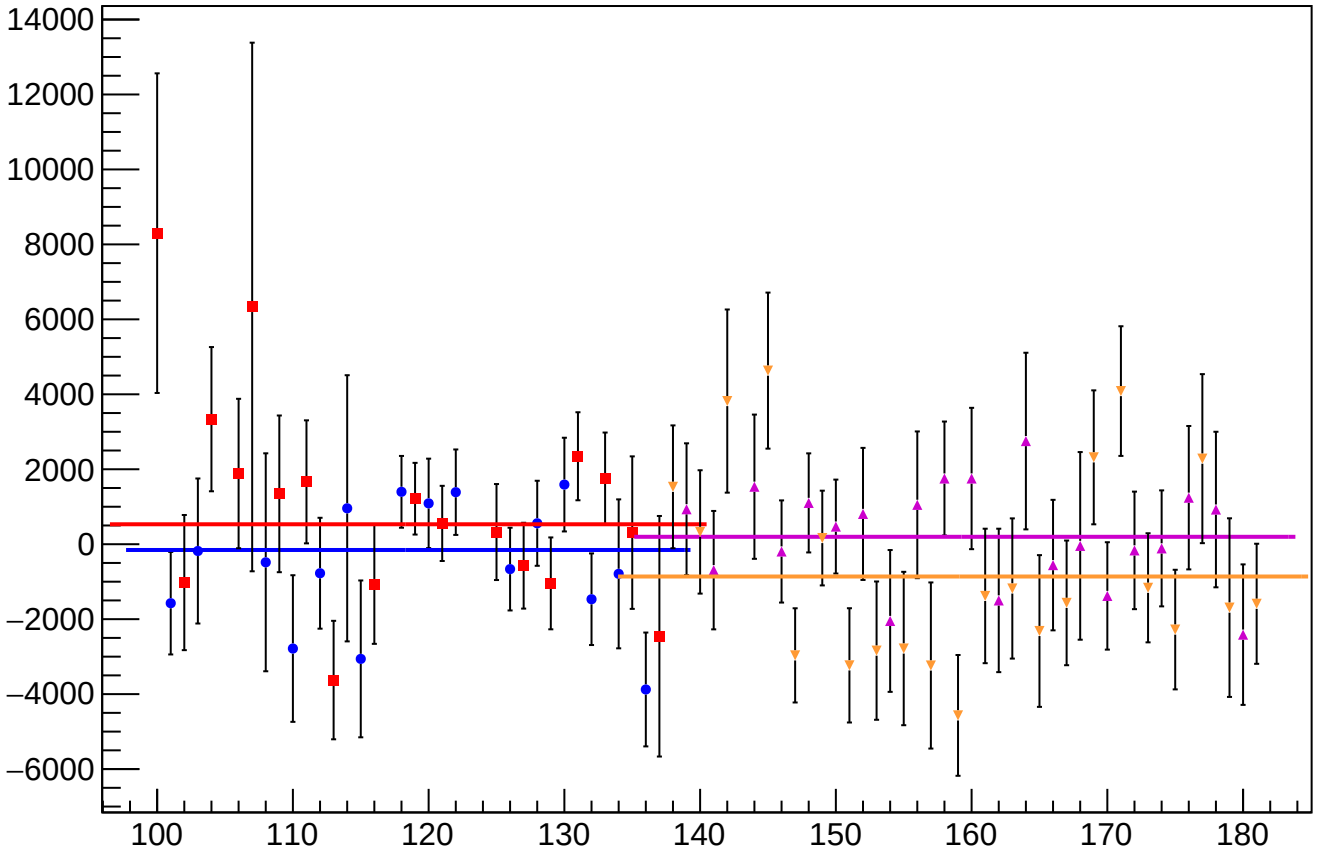
Left: 1108.975+/-0.133 $\chi^2$/NDF: 6215.7/42

Right: 1110.029+/-0.205 $\chi^2$/NDF: 19179.4/33

In: 1108.131+/-0.158 $\chi^2$/NDF:15033.4/36

Out: 1110.429+/-0.157 $\chi^2$/NDF:10274.4/39

All: 1109.287+/-0.112 $\chi^2$/NDF: 25413.7/76




Right In: -153.999+/-351.318 $\chi^2$/NDF: 20.5/15

Left Out: -861.797+/-366.956 $\chi^2$/NDF:42.9/21

Right Out: 532.155+/-350.407 $\chi^2$/NDF: 23.2/17

Left In: 197.766+/-368.562 $\chi^2$/NDF:10.8/20

Left: -334.330+/-260.043 $\chi^2$/NDF: 57.9/42

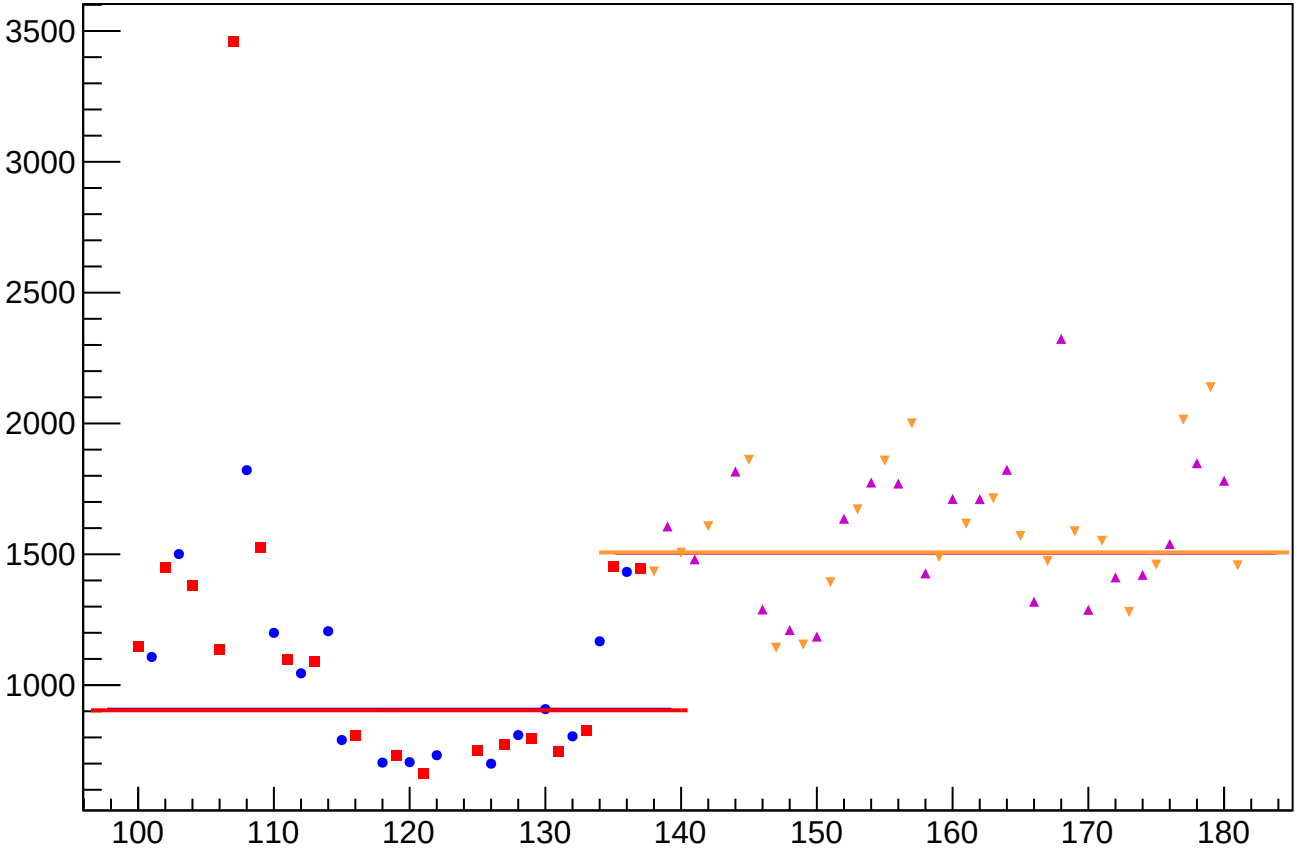
Right: 189.968+/-248.097 $\chi^2$/NDF: 45.6/33

In: 13.462+/-254.297 $\chi^2$/NDF:31.8/36

Out: -132.681+/-253.424 $\chi^2$/NDF:73.7/39

All: -59.861+/-179.506 $\chi^2$/NDF: 105.6/76

# asym_usl_dit_correction_rms vs Slug, Sign Corrected




Right In: 906.036+/-0.248 $\chi^2$/NDF: 1079435.1/15

Left Out: 1506.929+/-0.259 $\chi^2$/NDF:907545.5/21

Right Out: 903.753+/-0.248 $\chi^2$/NDF: 1339982.2/17

Left In: 1505.353+/-0.261 $\chi^2$/NDF:910140.7/20

Left: 1506.145+/-0.184 $\chi^2$/NDF: 1817704.6/42

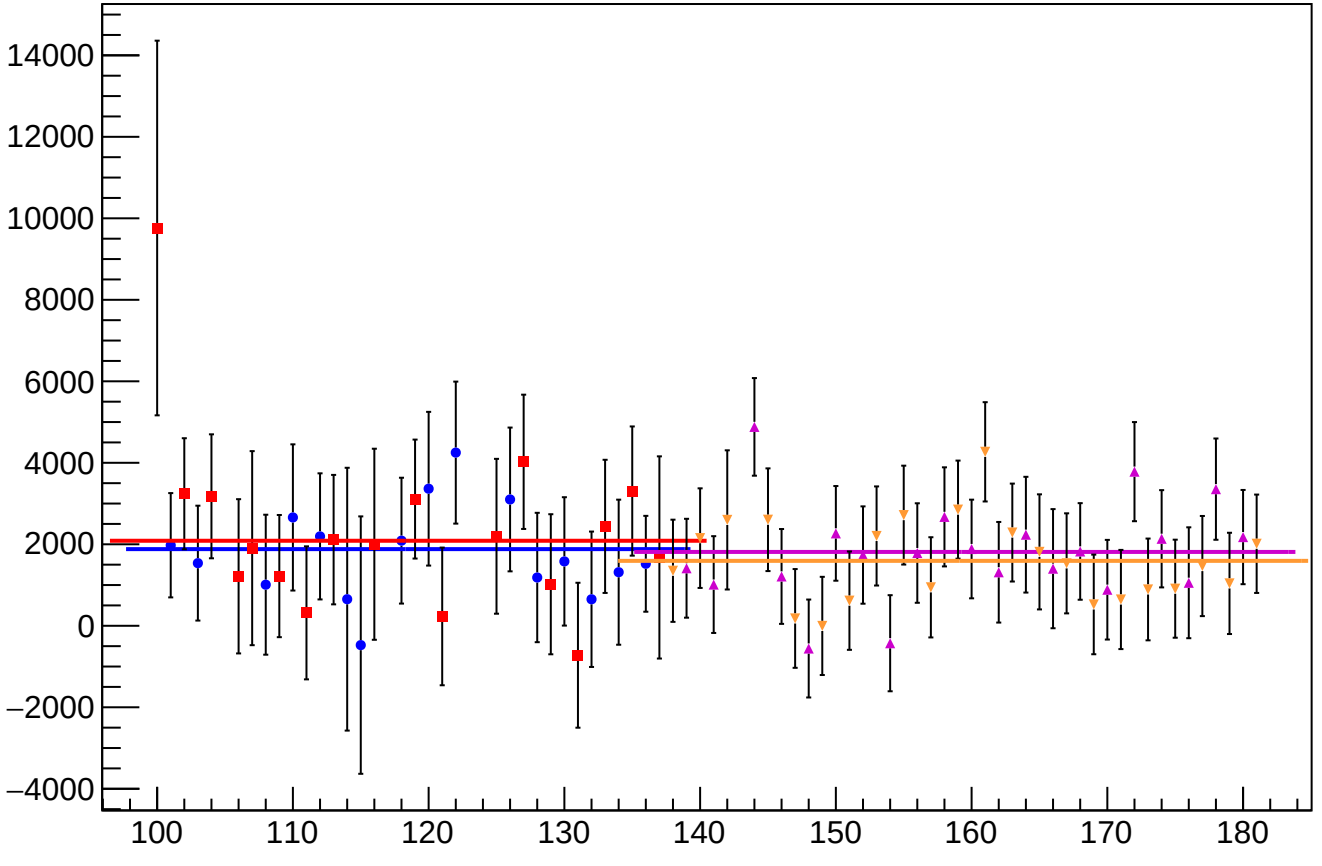
Right: 904.892+/-0.175 $\chi^2$/NDF: 2419459.6/33

In: 1191.346+/-0.180 $\chi^2$/NDF:4760372.6/36

Out: 1191.434+/-0.179 $\chi^2$/NDF:5073961.6/39

All: 1191.390+/-0.127 $\chi^2$/NDF: 9834334.3/76

# eigen_dit_asym_usl_mean vs Slug, Sign Corrected




Right In: 1881.523+/-410.700 $\chi^2$/NDF: 5.2/15

Left Out: 1593.547+/-264.947 $\chi^2$/NDF:15.0/21

Right Out: 2086.884+/-410.785 $\chi^2$/NDF: 12.4/17

Left In: 1812.457+/-267.068 $\chi^2$/NDF:21.1/20

Left: 1702.130+/-188.091 $\chi^2$/NDF: 36.5/42

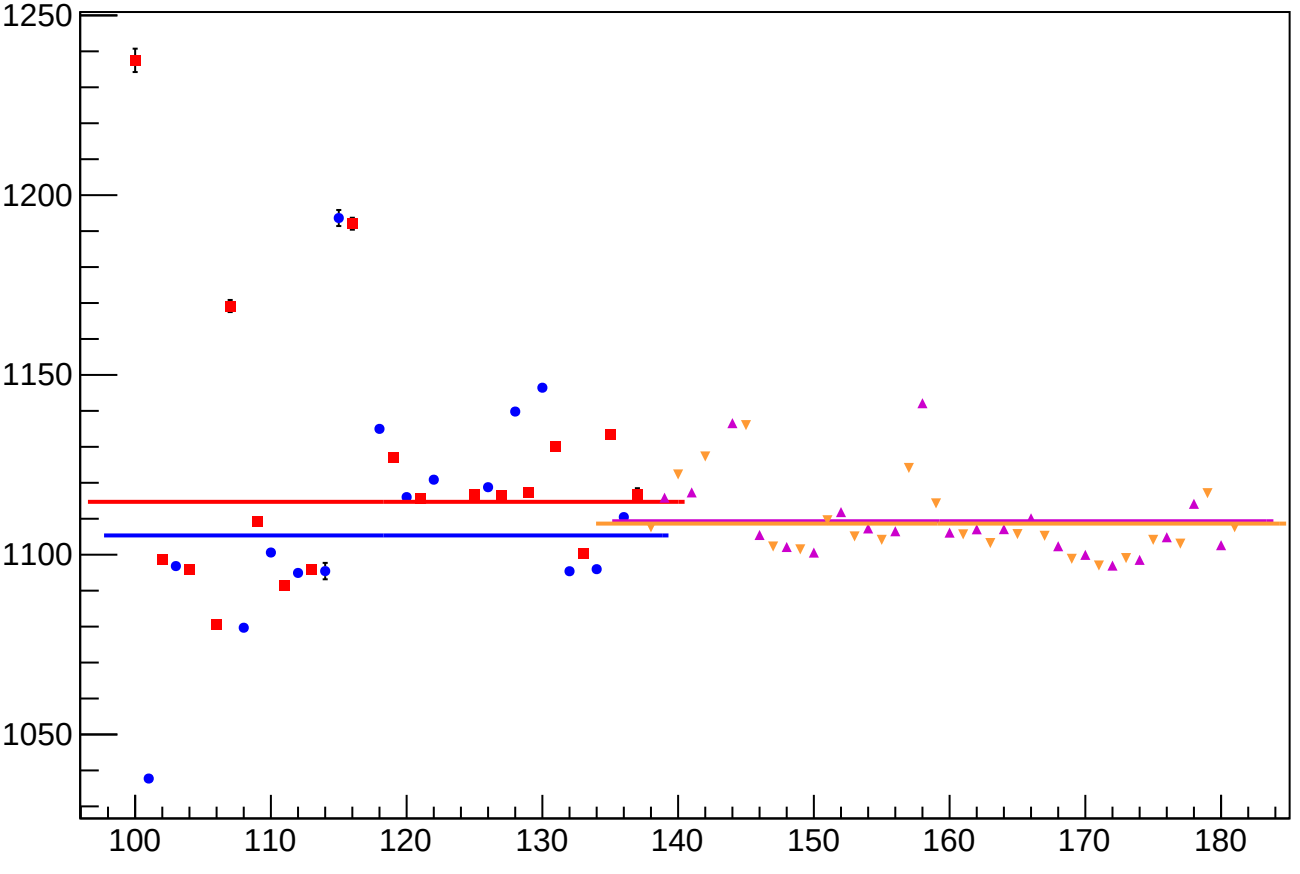
Right: 1984.182+/-290.439 $\chi^2$/NDF: 17.7/33

In: 1832.983+/-223.893 $\chi^2$/NDF:26.3/36

Out: 1738.481+/-222.653 $\chi^2$/NDF:28.4/39

All: 1785.469+/-157.876 $\chi^2$/NDF: 54.8/76

# eigen_dit_asym_usl_rms vs Slug, Sign Corrected




Right In: 1105.355+/-0.290 $\chi^2$/NDF: 11330.9/15

Left Out: 1108.650+/-0.187 $\chi^2$/NDF:2637.2/21

Right Out: 1114.705+/-0.290 $\chi^2$/NDF: 7330.2/17

Left In: 1109.305+/-0.189 $\chi^2$/NDF:3572.5/20

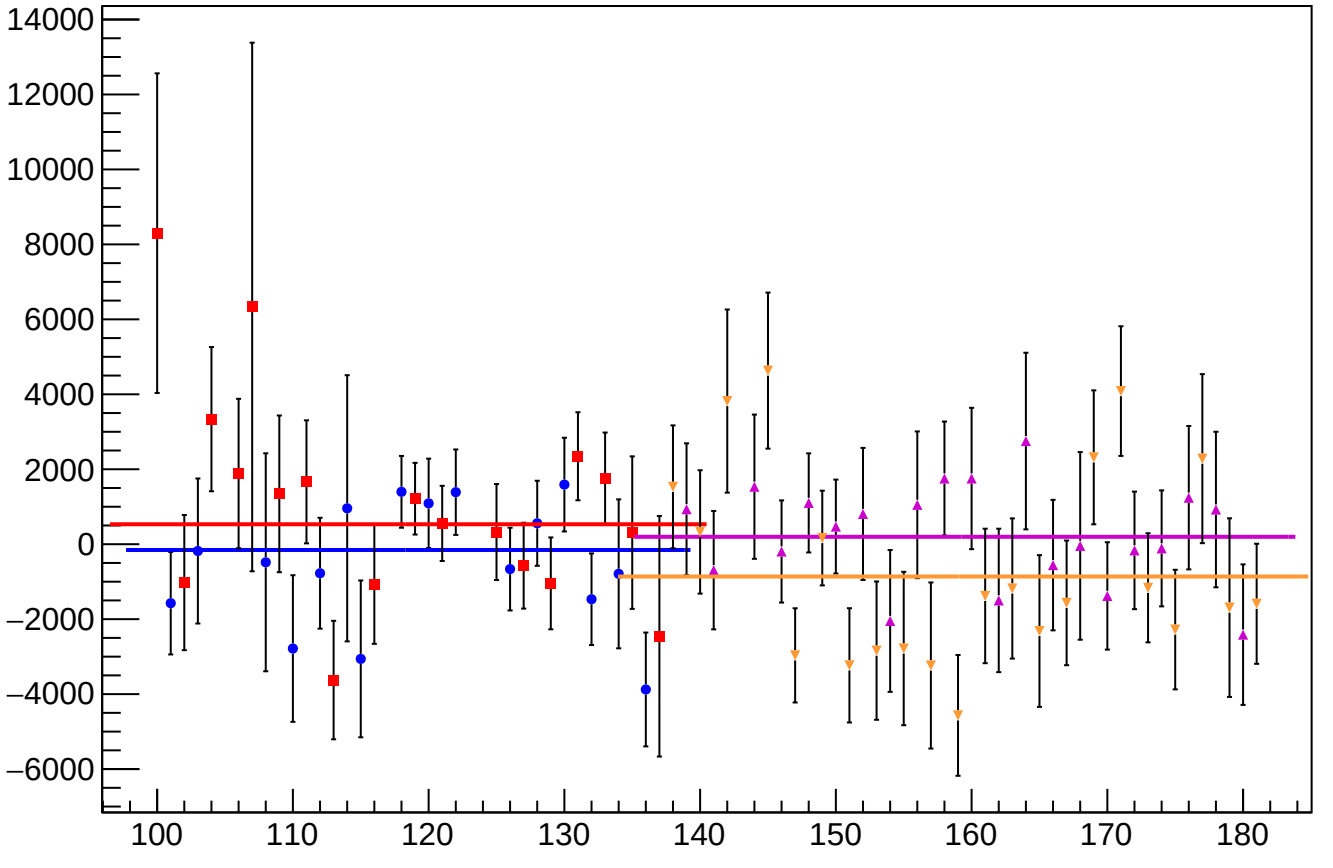
Left: 1108.975+/-0.133 $\chi^2$/NDF: 6215.7/42

Right: 1110.029+/-0.205 $\chi^2$/NDF: 19179.3/33

In: 1108.131+/-0.158 $\chi^2$/NDF:15033.4/36

Out: 1110.429+/-0.157 $\chi^2$/NDF:10274.3/39

All: 1109.287+/-0.112 $\chi^2$/NDF: 25413.6/76




Right In: -153.998+/-351.317 $\chi^2$/NDF: 20.5/15

Left Out: -861.801+/-366.956 $\chi^2$/NDF:42.9/21

Right Out: 532.154+/-350.406 $\chi^2$/NDF: 23.2/17

Left In: 197.767+/-368.563 $\chi^2$/NDF:10.8/20

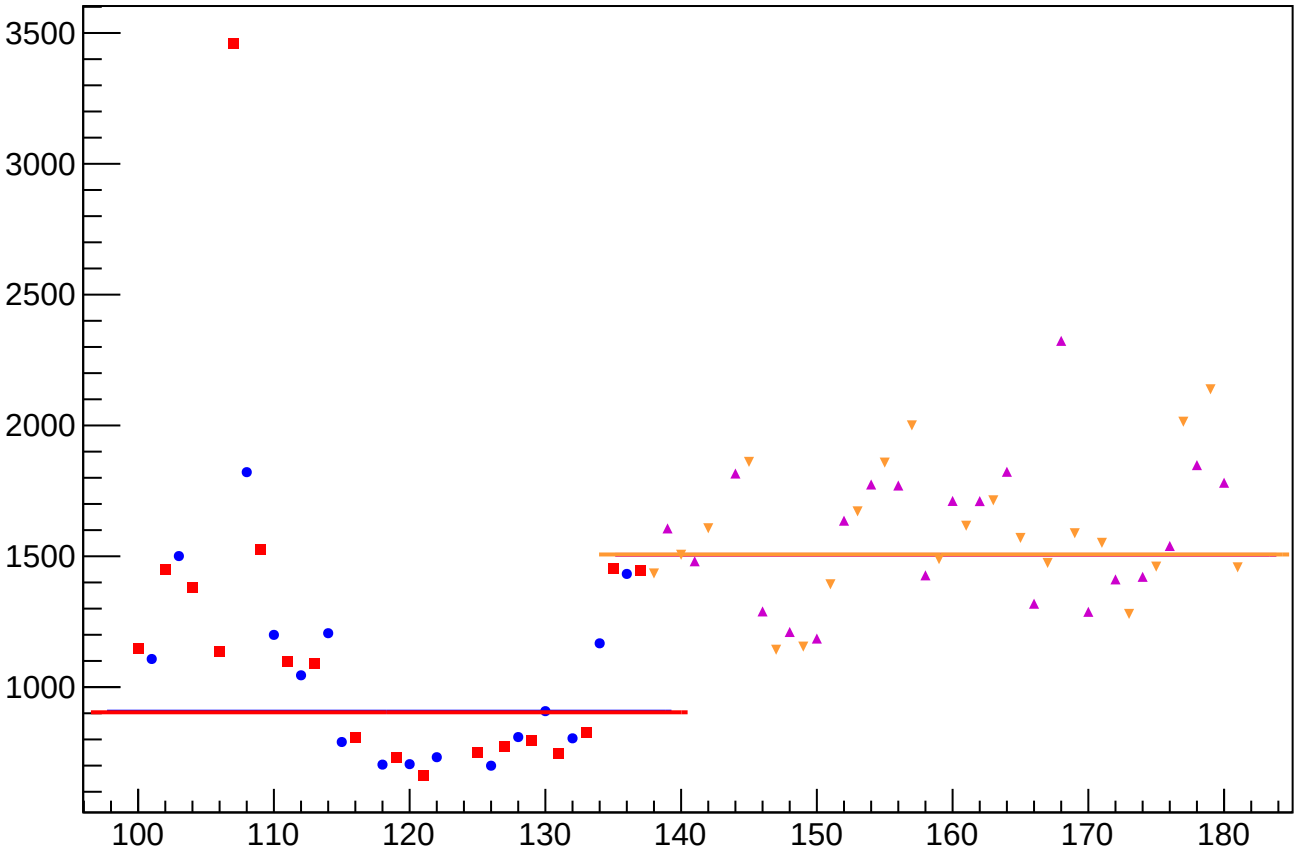
Left: -334.331+/-260.043 $\chi^2$/NDF: 57.9/42

Right: 189.969+/-248.096 $\chi^2$/NDF: 45.6/33

In: 13.462+/-254.297 $\chi^2$/NDF:31.8/36

Out: -132.681+/-253.424 $\chi^2$/NDF:73.7/39

All: -59.861+/-179.506 $\chi^2$/NDF: 105.6/76




Right In: 906.034+/-0.248 $\chi^2$/NDF: 1079440.1/15

Left Out: 1506.931+/-0.259 $\chi^2$/NDF:907541.8/21

Right Out: 903.751+/-0.248 $\chi^2$/NDF: 1339985.4/17

Left In: 1505.355+/-0.261 $\chi^2$/NDF:910137.2/20

Left: 1506.146+/-0.184 $\chi^2$/NDF: 1817697.3/42

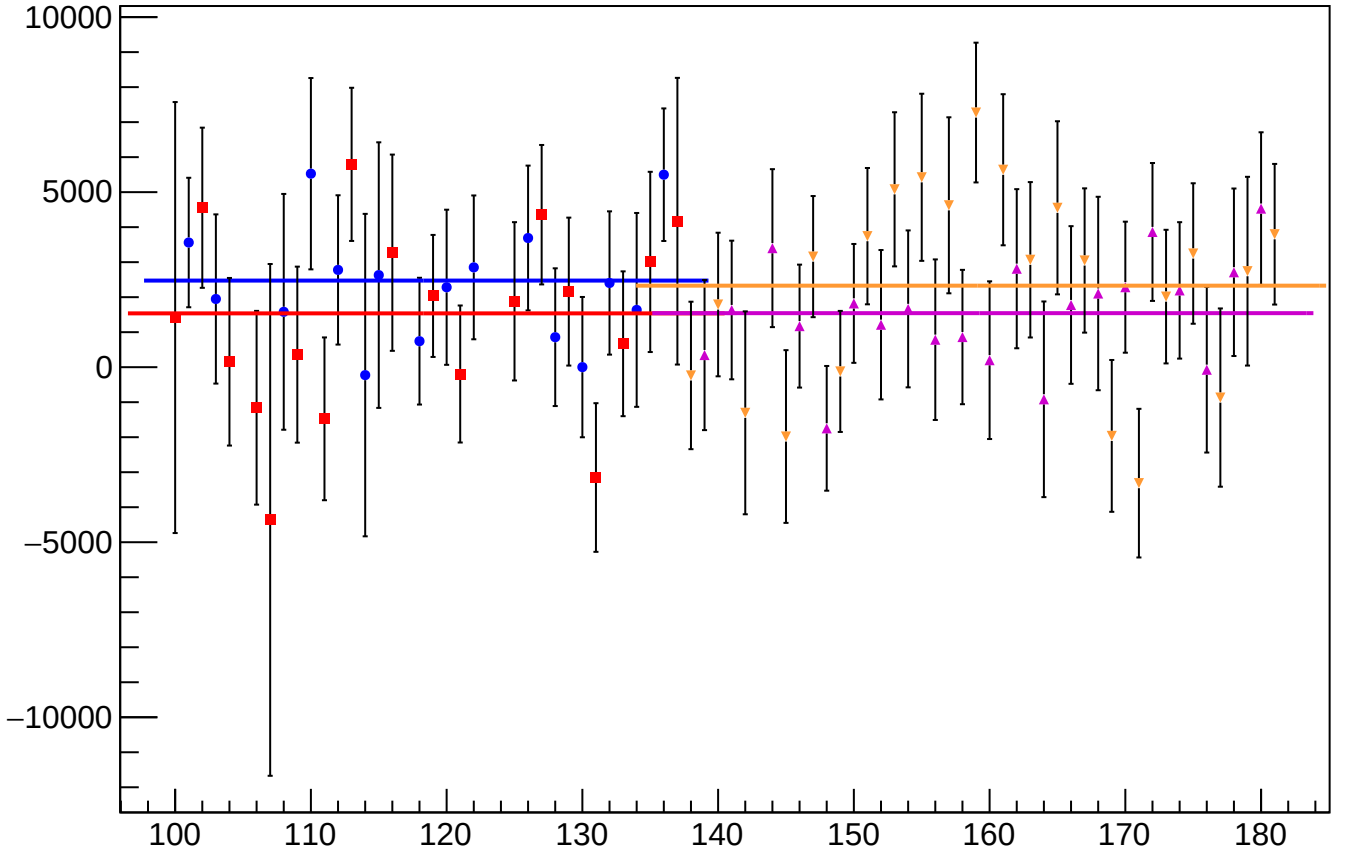
Right: 904.890+/-0.175 $\chi^2$/NDF: 2419467.8/33

In: 1191.345+/-0.180 $\chi^2$/NDF:4760408.3/36

Out: 1191.432+/-0.179 $\chi^2$/NDF:5073998.4/39

All: 1191.389+/-0.127 $\chi^2$/NDF: 9834406.9/76

# asym_usl_mean vs Slug, Sign Corrected




Right In: 2474.066+/-562.796 $\chi^2$/NDF: 8.2/15

Left Out: 2328.774+/-457.214 $\chi^2$/NDF:35.9/21

Right Out: 1537.435+/-563.556 $\chi^2$/NDF: 18.5/17

Left In: 1543.451+/-458.694 $\chi^2$/NDF:10.5/20

Left: 1937.382+/-323.821 $\chi^2$/NDF: 47.8/42

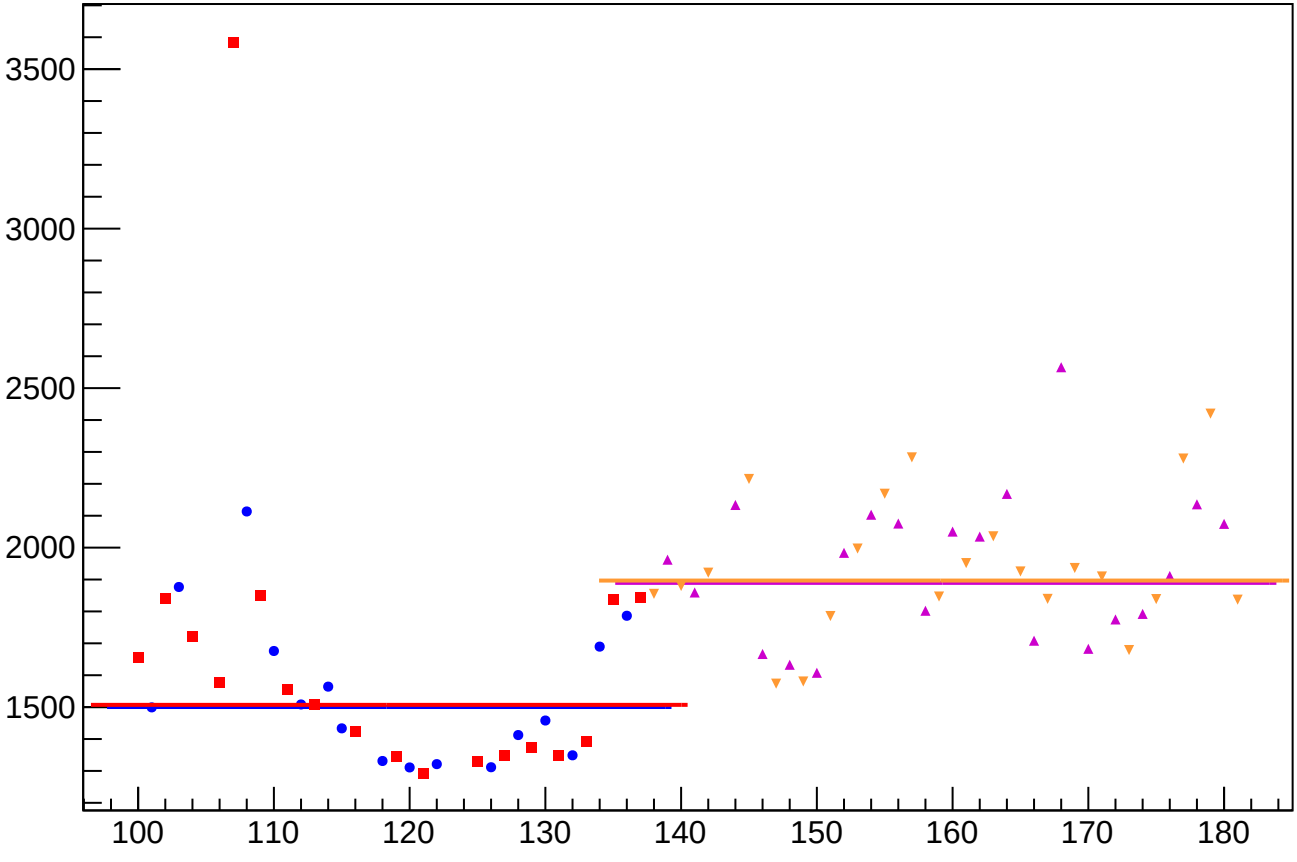
Right: 2006.383+/-398.225 $\chi^2$/NDF: 28.1/33

In: 1914.892+/-355.558 $\chi^2$/NDF:20.3/36

Out: 2014.660+/-355.058 $\chi^2$/NDF:55.6/39

All: 1964.847+/-251.241 $\chi^2$/NDF: 76.0/76

# asym_usl_rms vs Slug, Sign Corrected




Right In: 1500.377+/-0.398 $\chi^2$/NDF: 258792.8/15

Left Out: 1896.746+/-0.323 $\chi^2$/NDF:417925.7/21

Right Out: 1507.098+/-0.398 $\chi^2$/NDF: 401227.7/17

Left In: 1889.530+/-0.324 $\chi^2$/NDF:437271.8/20

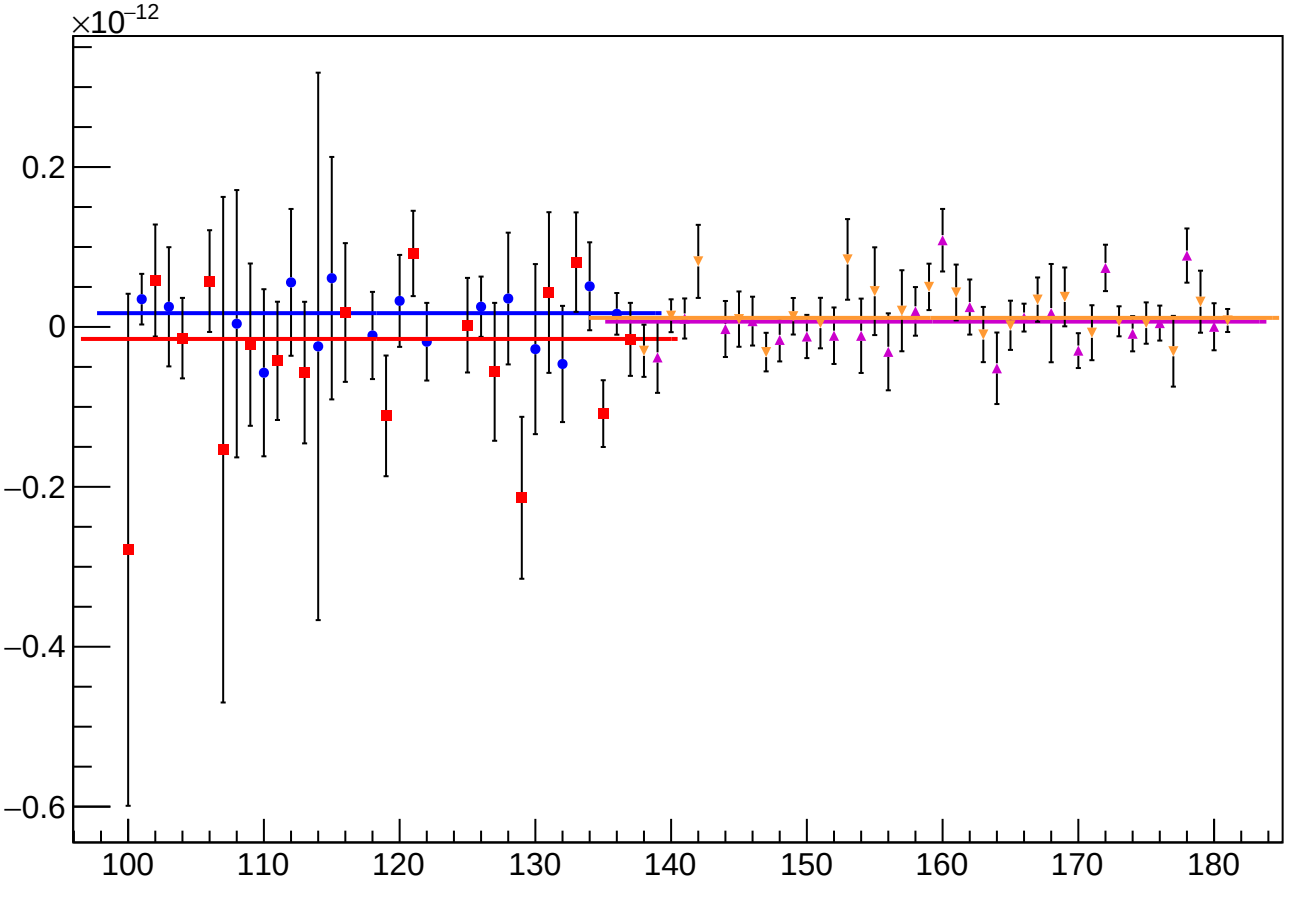
Left: 1893.150+/-0.229 $\chi^2$/NDF: 855445.7/42

Right: 1503.733+/-0.282 $\chi^2$/NDF: 660162.8/33

In: 1734.205+/-0.251 $\chi^2$/NDF:1270638.0/36

Out: 1742.079+/-0.251 $\chi^2$/NDF:1395736.6/39

All: 1738.148+/-0.178 $\chi^2$/NDF: 2666865.8/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.6/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.0/20

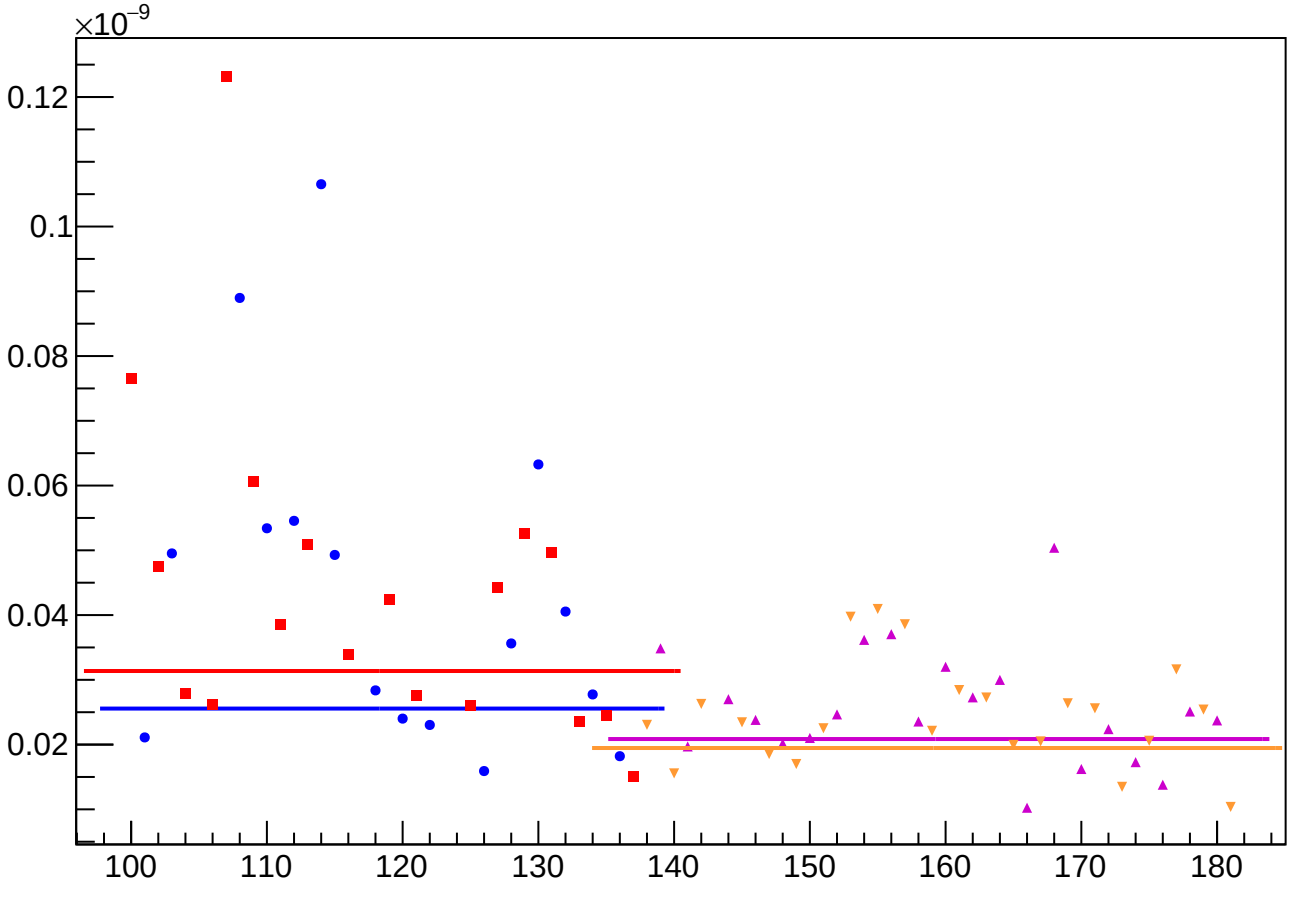
Left: 0.000+/-0.000 $\chi^2$/NDF: 42.8/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 27.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:30.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:39.2/39

All: 0.000+/-0.000 $\chi^2$/NDF: 70.1/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1707801.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2716709.8/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1228078.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2692724.2/20

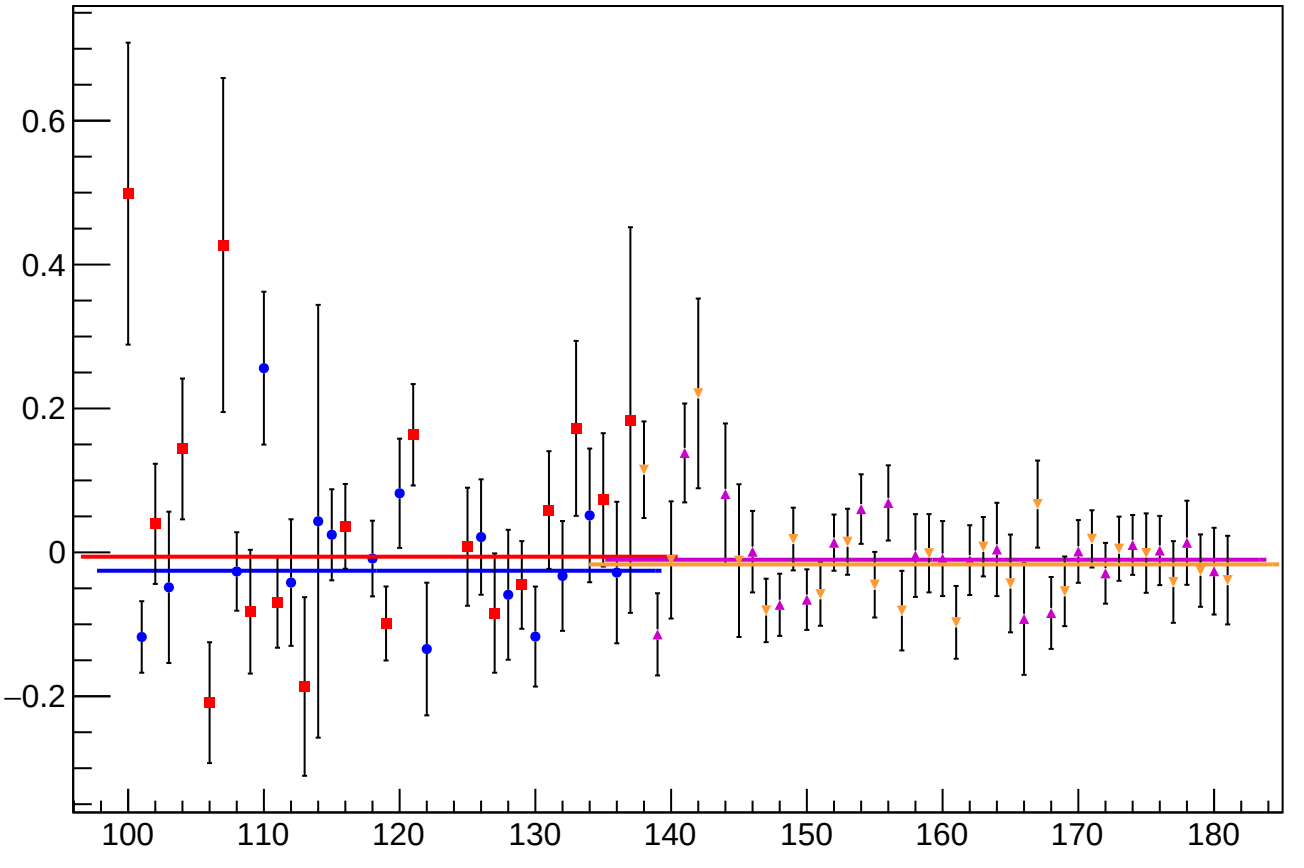
Left: 0.000+/-0.000 $\chi^2$/NDF: 5459291.6/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 3088169.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:4598461.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4902149.1/39

All: 0.000+/-0.000 $\chi^2$/NDF: 9519273.0/76




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: -0.017+/-0.011 $\chi^2$/NDF:20.1/21

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: -0.010+/-0.011 $\chi^2$/NDF:21.7/20

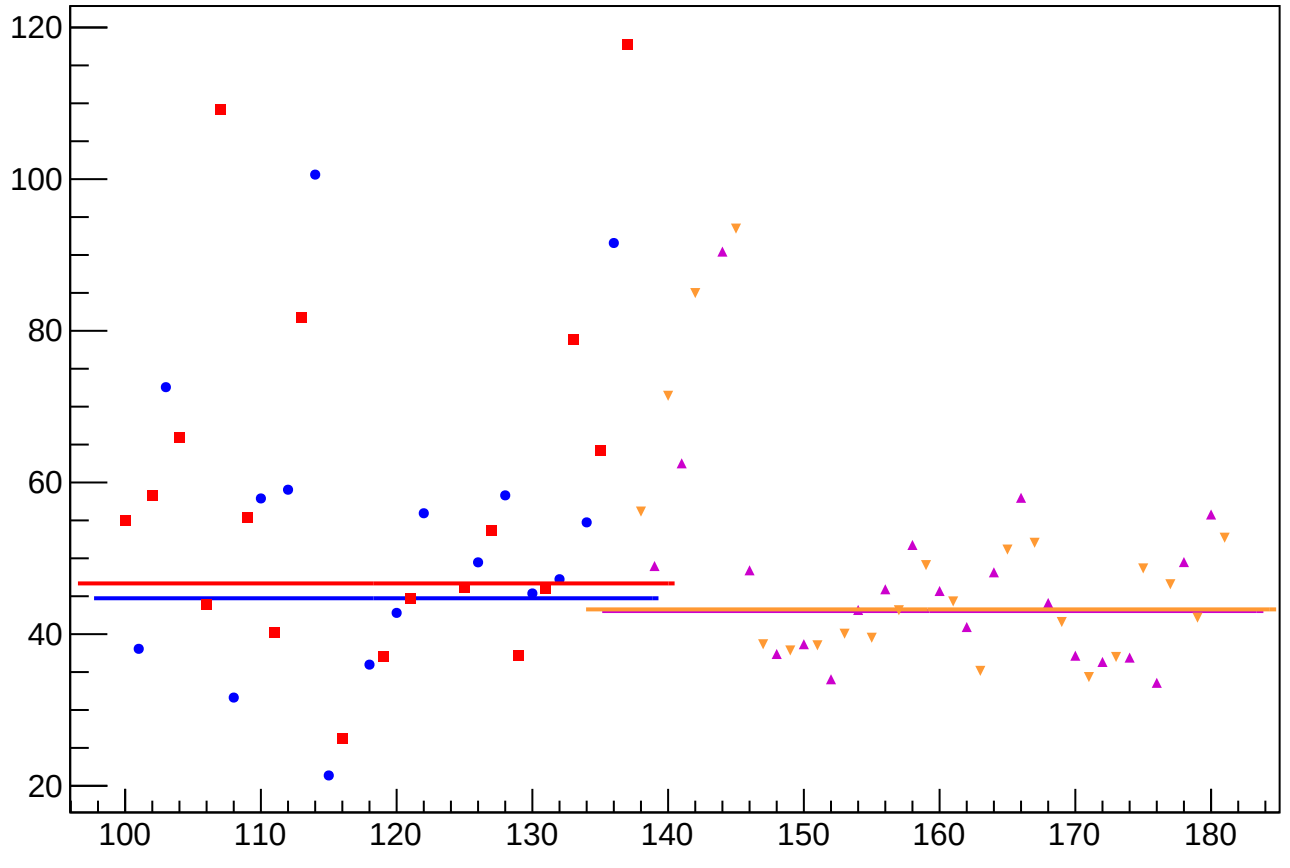
Left: -0.013+/-0.008 $\chi^2$/NDF: 41.9/42

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.014+/-0.010 $\chi^2$/NDF:39.8/36

Out: -0.014+/-0.010 $\chi^2$/NDF:56.8/39

All: -0.014+/-0.007 $\chi^2$/NDF: 96.6/76




Right In: 44.733+/-0.013 $\chi^2$/NDF: 1334541.9/15

Left Out: 43.266+/-0.008 $\chi^2$/NDF:1446567.0/21

Right Out: 46.691+/-0.014 $\chi^2$/NDF: 1195464.6/17

Left In: 43.048+/-0.008 $\chi^2$/NDF:1299665.5/20

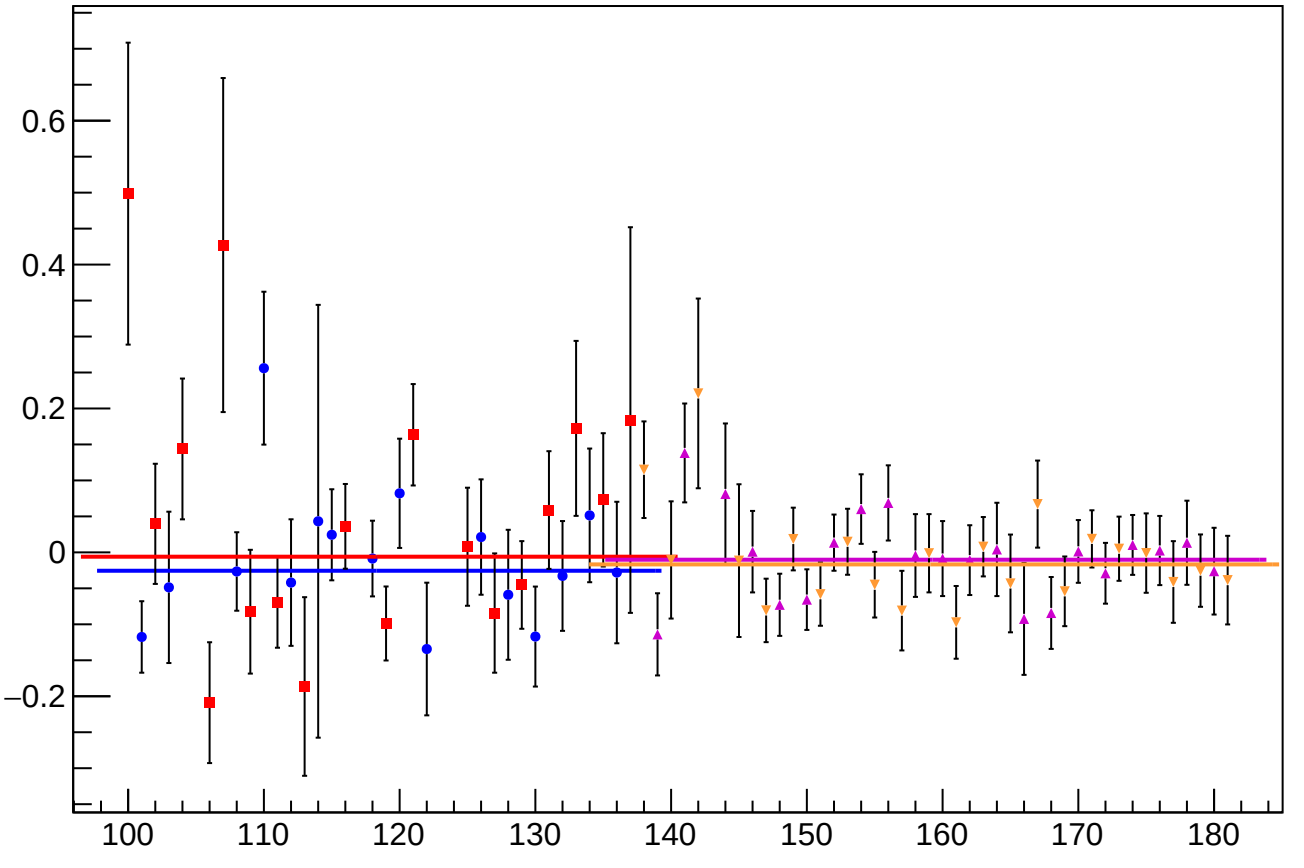
Left: 43.157+/-0.006 $\chi^2$/NDF: 2746615.8/42

Right: 45.680+/-0.010 $\chi^2$/NDF: 2540529.3/33

In: 43.487+/-0.007 $\chi^2$/NDF:2646132.2/36

Out: 44.118+/-0.007 $\chi^2$/NDF:2688885.6/39

All: 43.800+/-0.005 $\chi^2$/NDF: 5339310.6/76




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: -0.017+/-0.011 $\chi^2$/NDF:20.1/21

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: -0.010+/-0.011 $\chi^2$/NDF:21.7/20

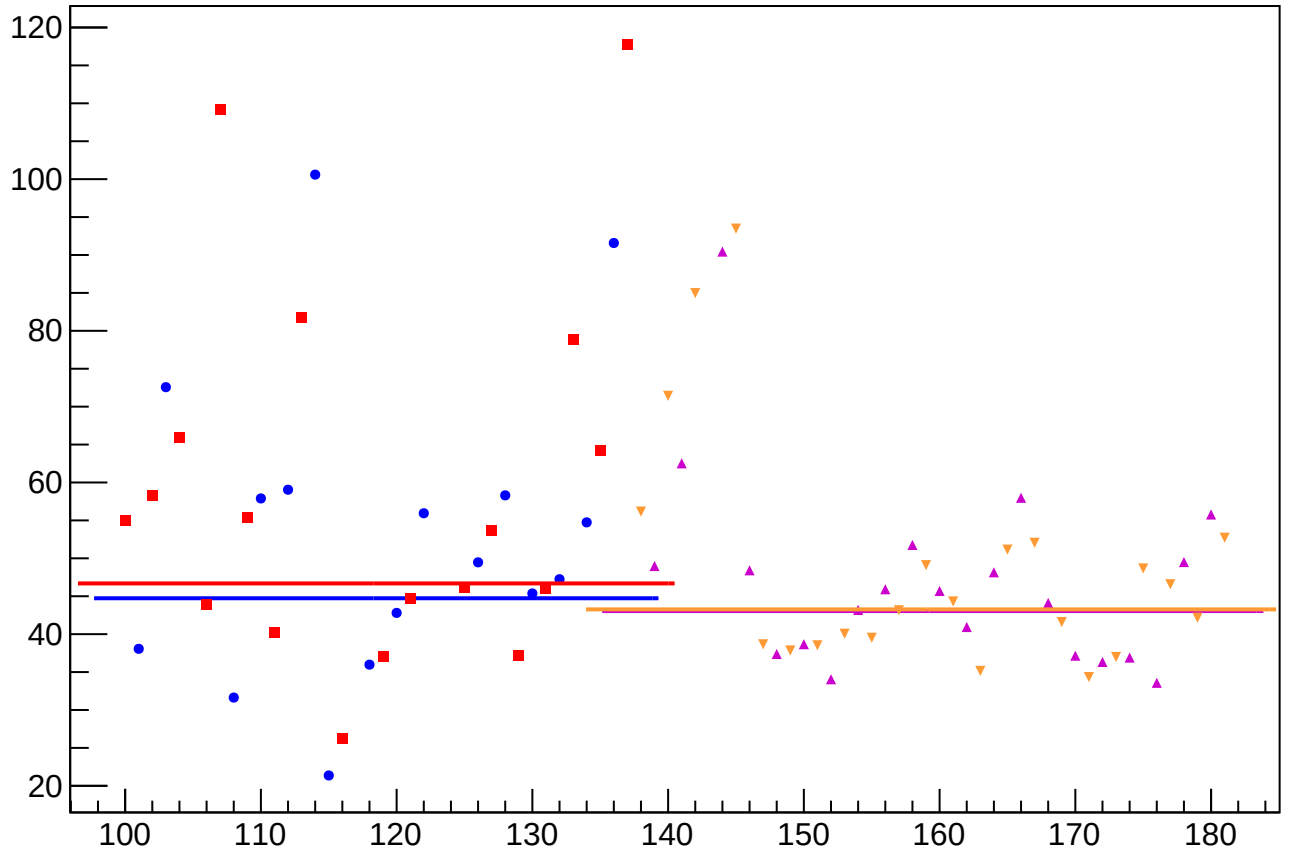
Left: -0.013+/-0.008 $\chi^2$/NDF: 41.9/42

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.014+/-0.010 $\chi^2$/NDF:39.8/36

Out: -0.014+/-0.010 $\chi^2$/NDF:56.8/39

All: -0.014+/-0.007 $\chi^2$/NDF: 96.6/76




Right In: 44.733+/-0.013 $\chi^2$/NDF: 1334541.9/15

Left Out: 43.266+/-0.008 $\chi^2$/NDF:1446567.0/21

Right Out: 46.691+/-0.014 $\chi^2$/NDF: 1195464.6/17

Left In: 43.048+/-0.008 $\chi^2$/NDF:1299665.5/20

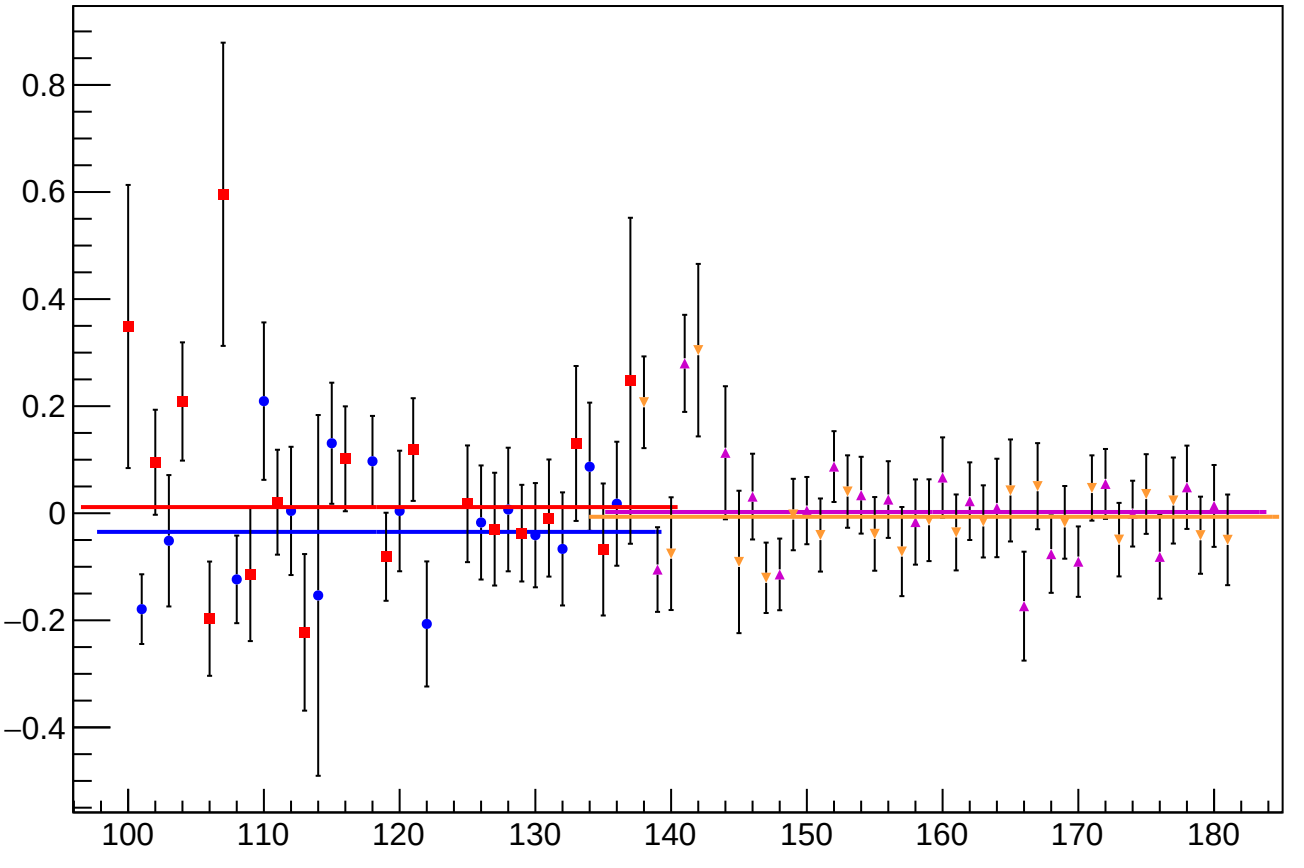
Left: 43.157+/-0.006 $\chi^2$/NDF: 2746615.8/42

Right: 45.680+/-0.010 $\chi^2$/NDF: 2540529.3/33

In: 43.487+/-0.007 $\chi^2$/NDF:2646132.2/36

Out: 44.118+/-0.007 $\chi^2$/NDF:2688885.6/39

All: 43.800+/-0.005 $\chi^2$/NDF: 5339310.6/76




Right In: -0.035+/-0.026 $\chi^2$/NDF: 17.4/15

Left Out: -0.007+/-0.016 $\chi^2$/NDF:18.5/21

Right Out: 0.012+/-0.027 $\chi^2$/NDF: 22.8/17

Left In: 0.002+/-0.016 $\chi^2$/NDF:26.3/20

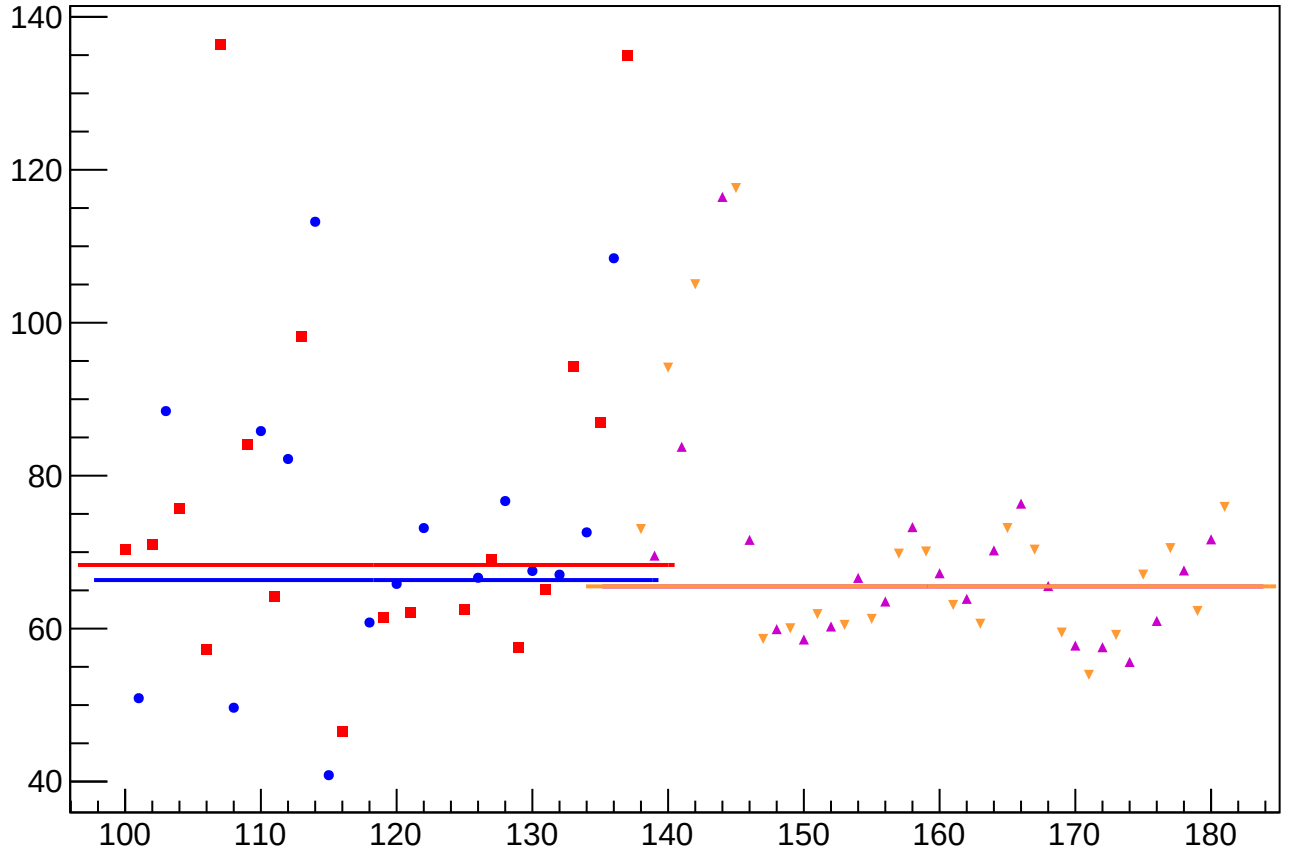
Left: -0.002+/-0.012 $\chi^2$/NDF: 45.0/42

Right: -0.012+/-0.019 $\chi^2$/NDF: 41.7/33

In: -0.008+/-0.014 $\chi^2$/NDF:45.2/36

Out: -0.002+/-0.014 $\chi^2$/NDF:41.6/39

All: -0.005+/-0.010 $\chi^2$/NDF: 86.9/76




Right In: 66.348+/-0.019 $\chi^2$/NDF: 772653.3/15

Left Out: 65.524+/-0.011 $\chi^2$/NDF:842608.2/21

Right Out: 68.322+/-0.019 $\chi^2$/NDF: 629670.0/17

Left In: 65.509+/-0.012 $\chi^2$/NDF:665682.8/20

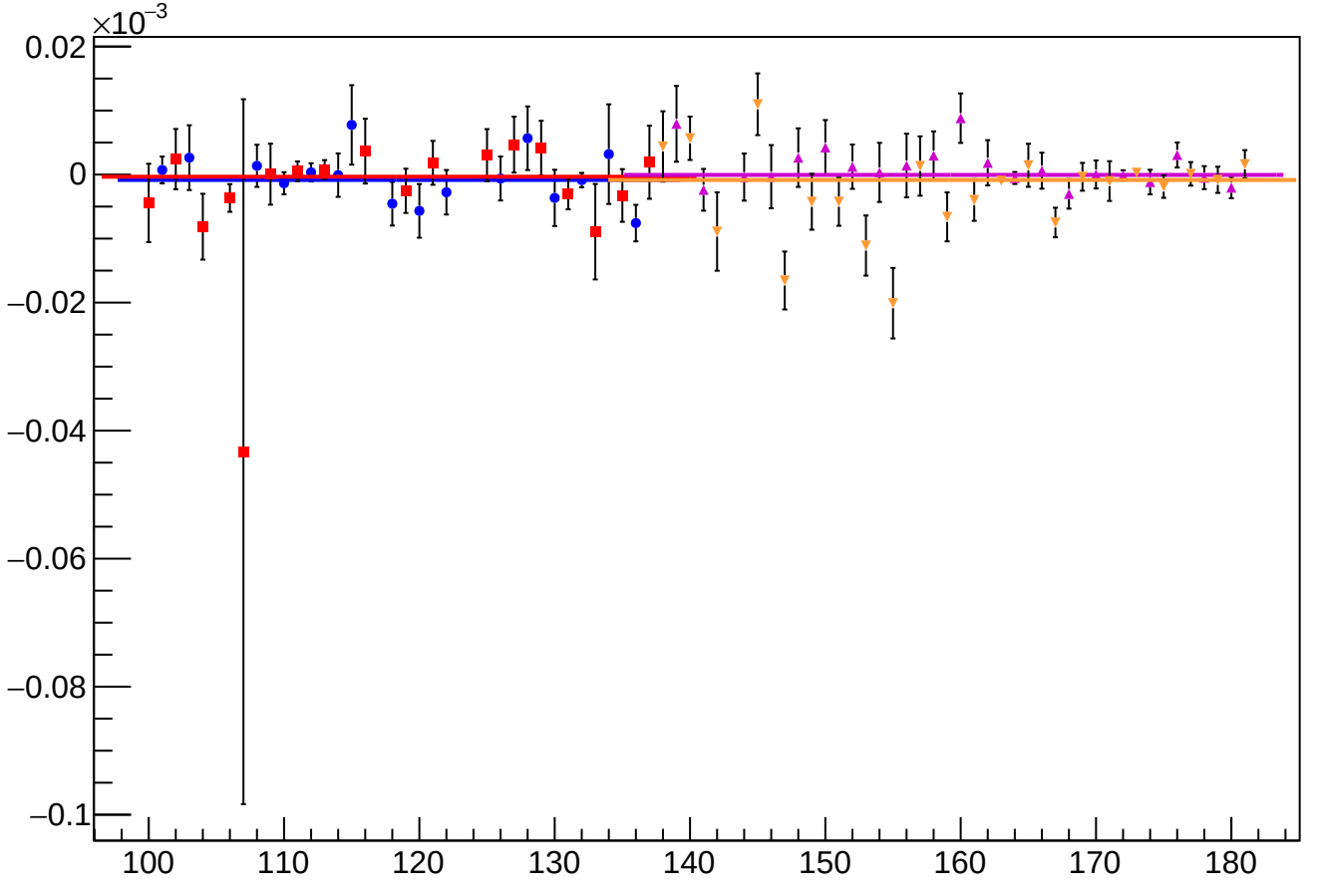
Left: 65.516+/-0.008 $\chi^2$/NDF: 1508291.9/42

Right: 67.312+/-0.013 $\chi^2$/NDF: 1407833.1/33

In: 65.742+/-0.010 $\chi^2$/NDF:1439810.8/36

Out: 66.272+/-0.010 $\chi^2$/NDF:1488134.2/39

All: 66.006+/-0.007 $\chi^2$/NDF: 2929399.9/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:59.7/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.5/20

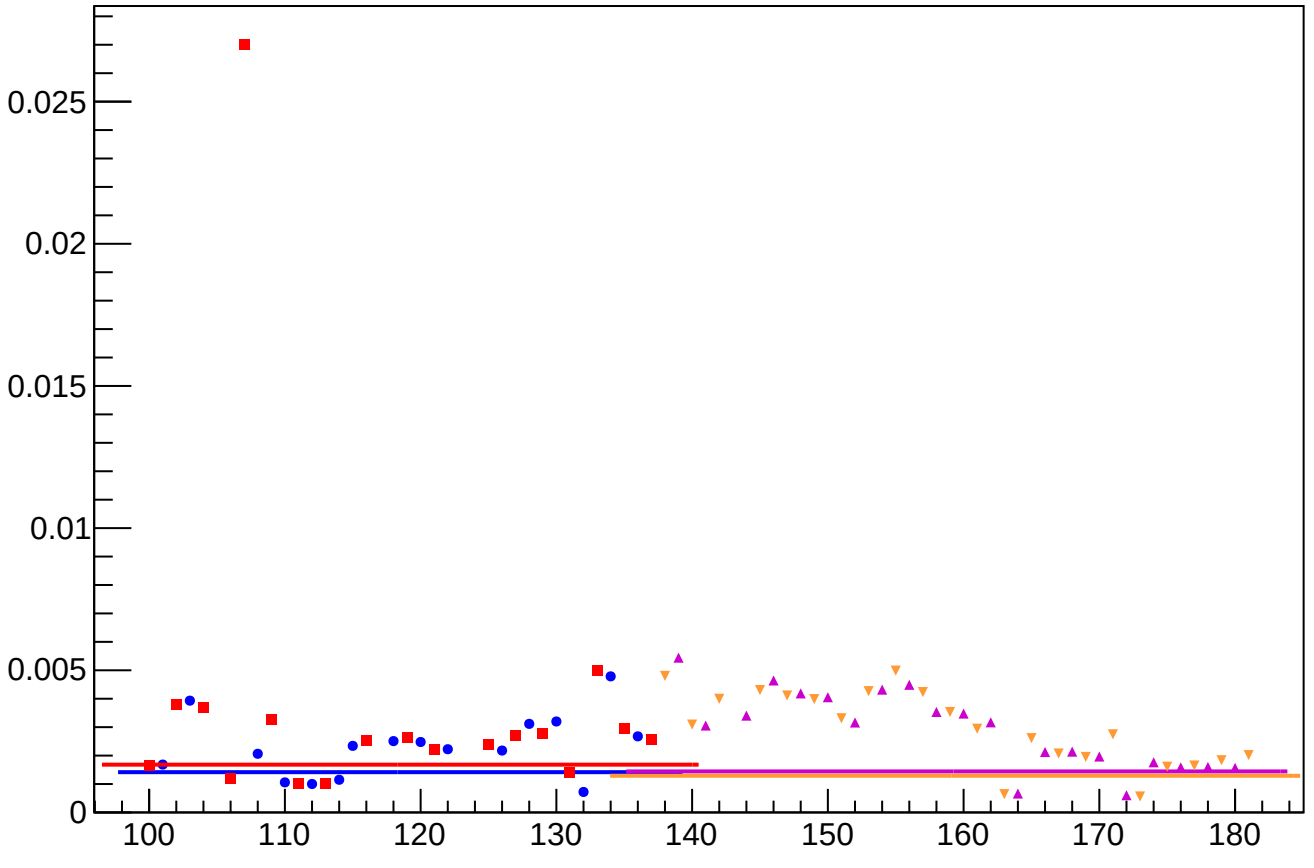
Left: -0.000+/-0.000 $\chi^2$/NDF: 78.0/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:32.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:74.9/39

All: -0.000+/-0.000 $\chi^2$/NDF: 108.1/76




Right In: 0.001+/-0.000 $\chi^2$/NDF: 3547259.2/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:13751758.1/21

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3427218.5/17

Left In: 0.001+/-0.000 $\chi^2$/NDF:12006142.4/20

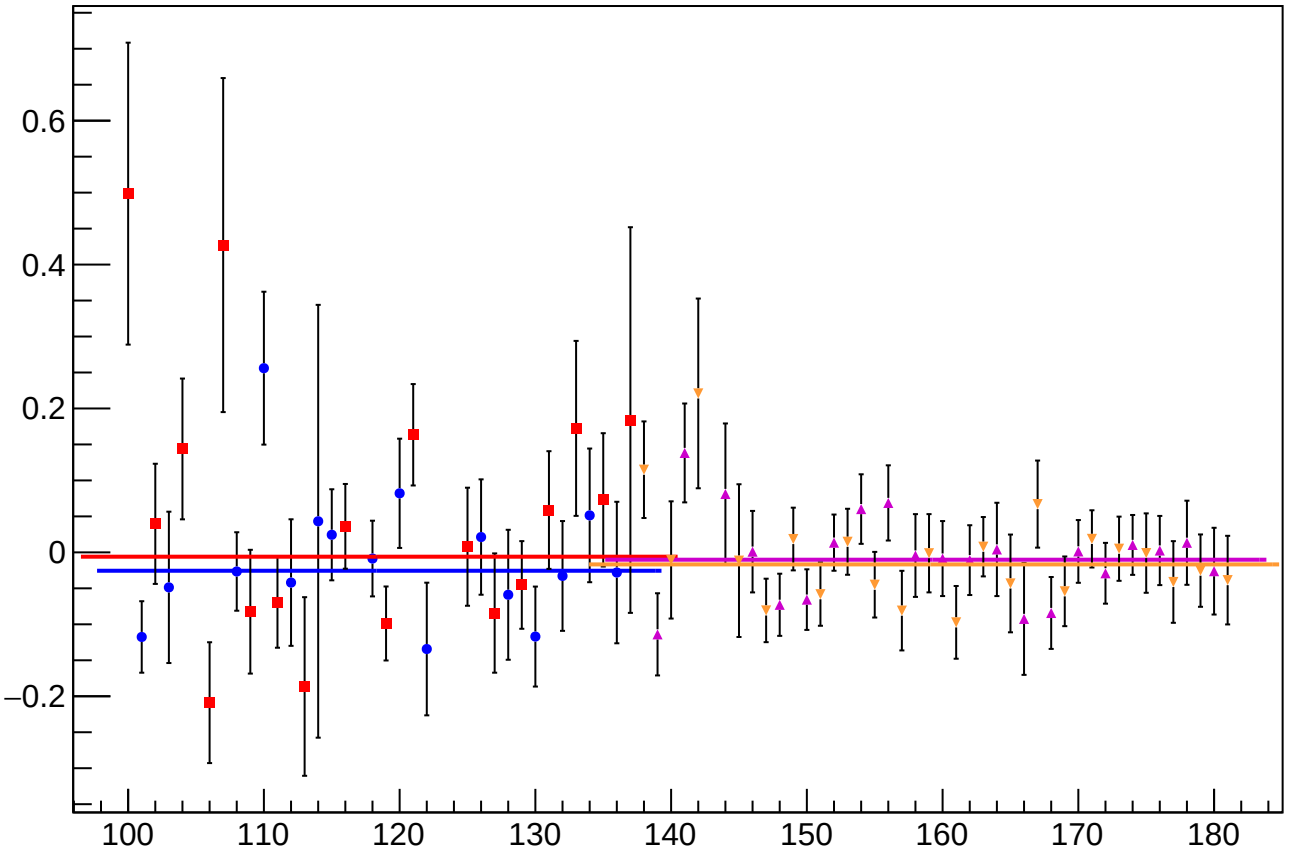
Left: 0.001+/-0.000 $\chi^2$/NDF: 25888964.2/42

Right: 0.002+/-0.000 $\chi^2$/NDF: 7128830.6/33

In: 0.001+/-0.000 $\chi^2$/NDF:15555764.8/36

Out: 0.001+/-0.000 $\chi^2$/NDF:17623815.3/39

All: 0.001+/-0.000 $\chi^2$/NDF: 33200447.6/76




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: -0.017+/-0.011 $\chi^2$/NDF:20.1/21

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: -0.010+/-0.011 $\chi^2$/NDF:21.7/20

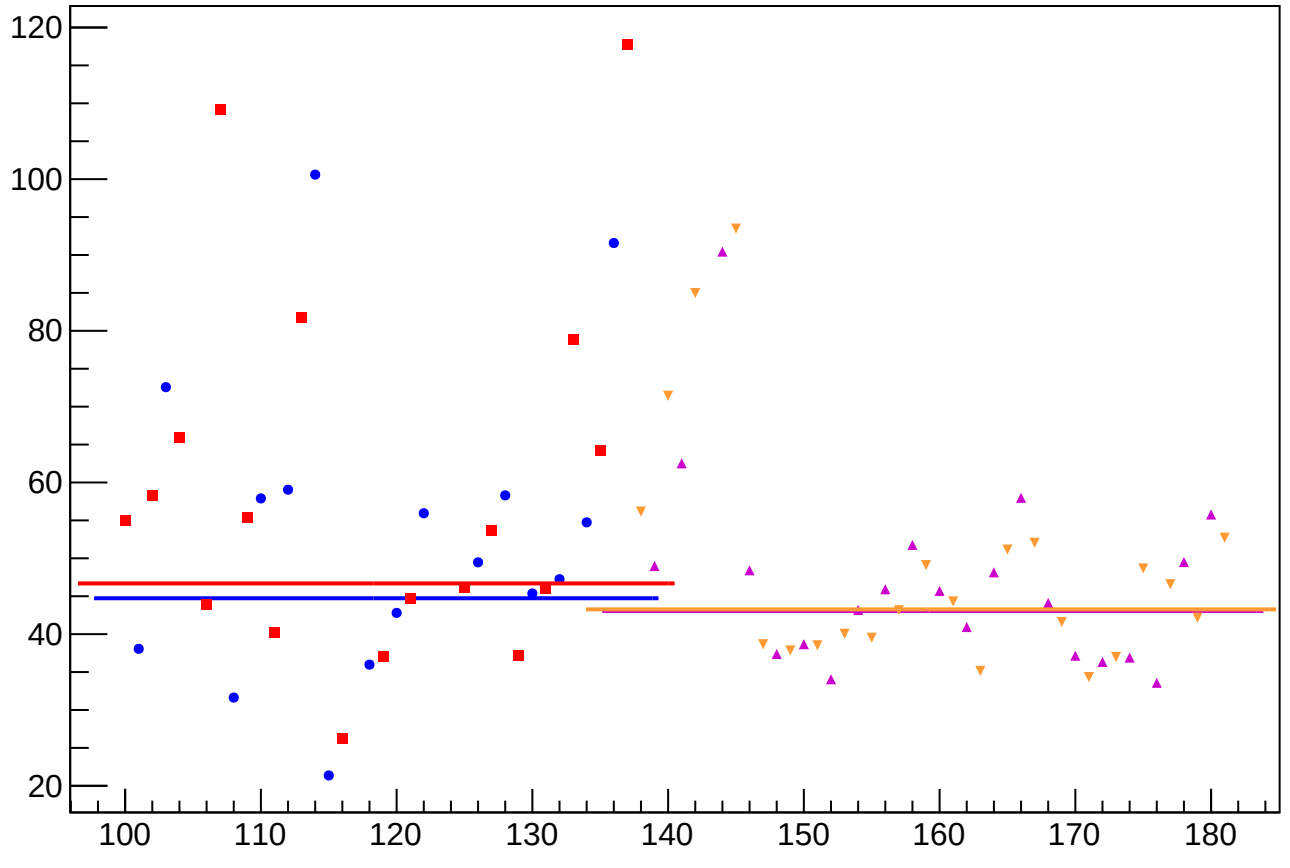
Left: -0.013+/-0.008 $\chi^2$/NDF: 41.9/42

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.014+/-0.010 $\chi^2$/NDF:39.8/36

Out: -0.014+/-0.010 $\chi^2$/NDF:56.8/39

All: -0.014+/-0.007 $\chi^2$/NDF: 96.6/76




Right In: 44.732+/-0.013 $\chi^2$/NDF: 1334604.0/15

Left Out: 43.266+/-0.008 $\chi^2$/NDF:1446530.8/21

Right Out: 46.690+/-0.014 $\chi^2$/NDF: 1195504.1/17

Left In: 43.048+/-0.008 $\chi^2$/NDF:1299612.8/20

Left: 43.157+/-0.006 $\chi^2$/NDF: 2746526.2/42

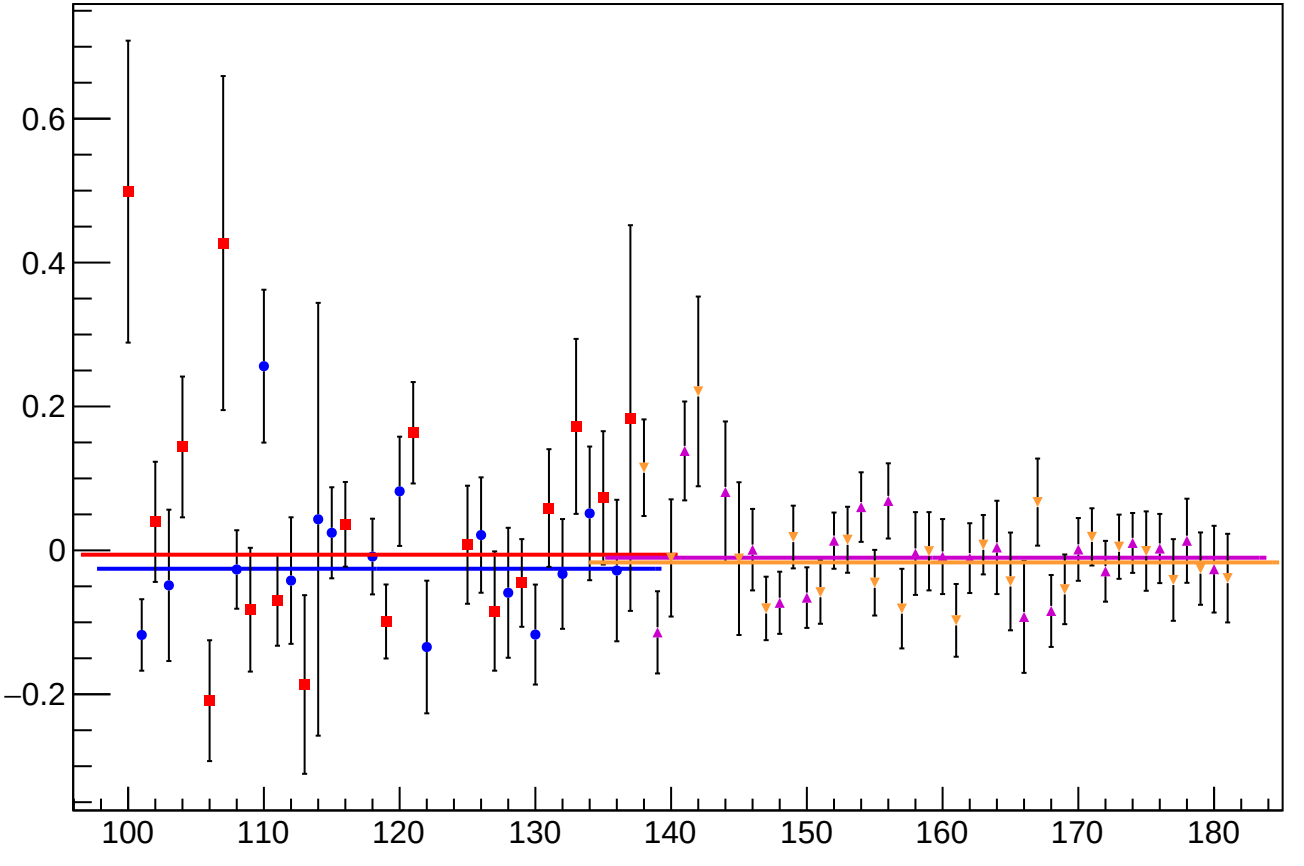
Right: 45.679+/-0.010 $\chi^2$/NDF: 2540631.2/33

In: 43.487+/-0.007 $\chi^2$/NDF:2646123.9/36

Out: 44.118+/-0.007 $\chi^2$/NDF:2688860.5/39

All: 43.800+/-0.005 $\chi^2$/NDF: 5339275.5/76

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: -0.017+/-0.011 $\chi^2$/NDF:20.1/21

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: -0.010+/-0.011 $\chi^2$/NDF:21.7/20

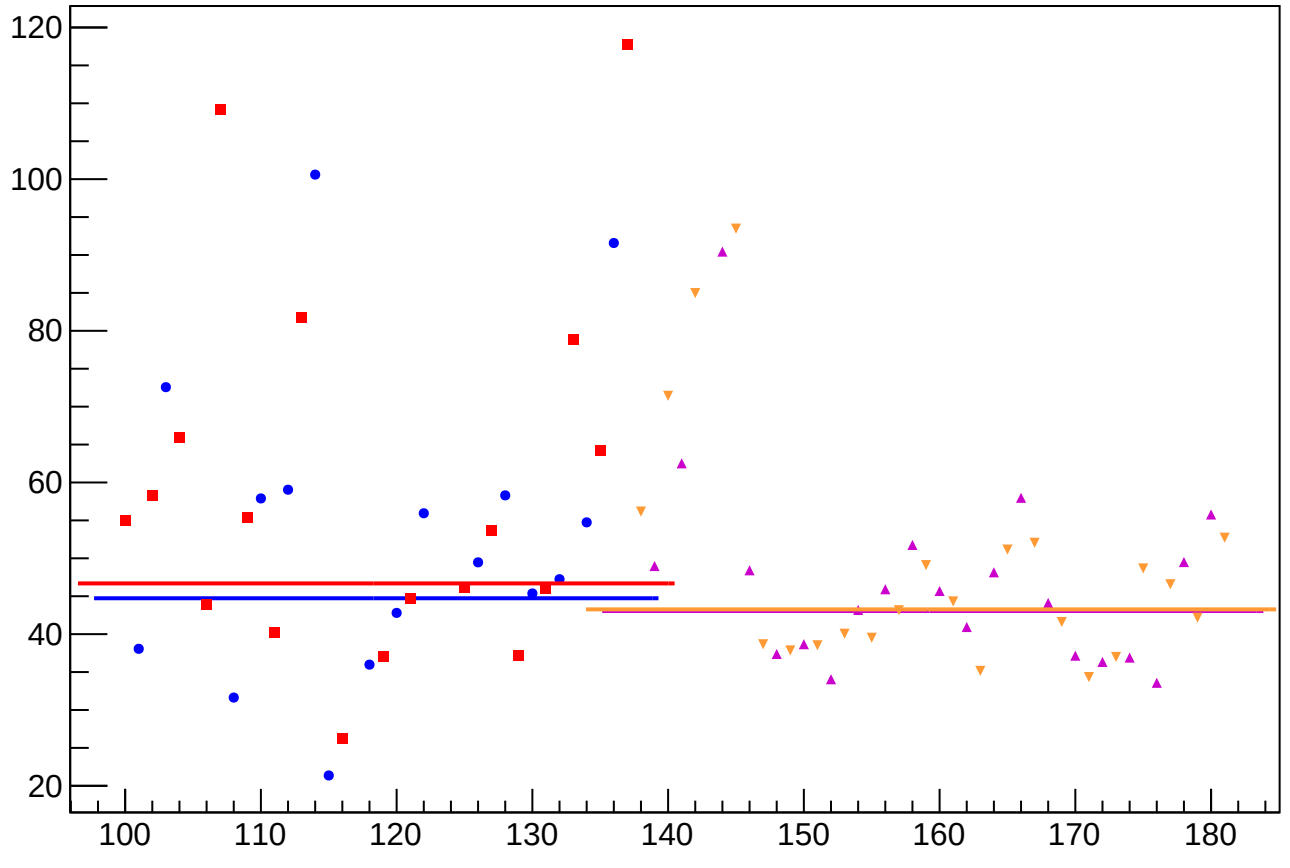
Left: -0.013+/-0.008 $\chi^2$/NDF: 41.9/42

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.014+/-0.010 $\chi^2$/NDF:39.8/36

Out: -0.014+/-0.010 $\chi^2$/NDF:56.8/39

All: -0.014+/-0.007 $\chi^2$/NDF: 96.6/76




Right In: 44.732+/-0.013 $\chi^2$/NDF: 1334604.0/15

Left Out: 43.266+/-0.008 $\chi^2$/NDF:1446530.8/21

Right Out: 46.690+/-0.014 $\chi^2$/NDF: 1195504.1/17

Left In: 43.048+/-0.008 $\chi^2$/NDF:1299612.8/20

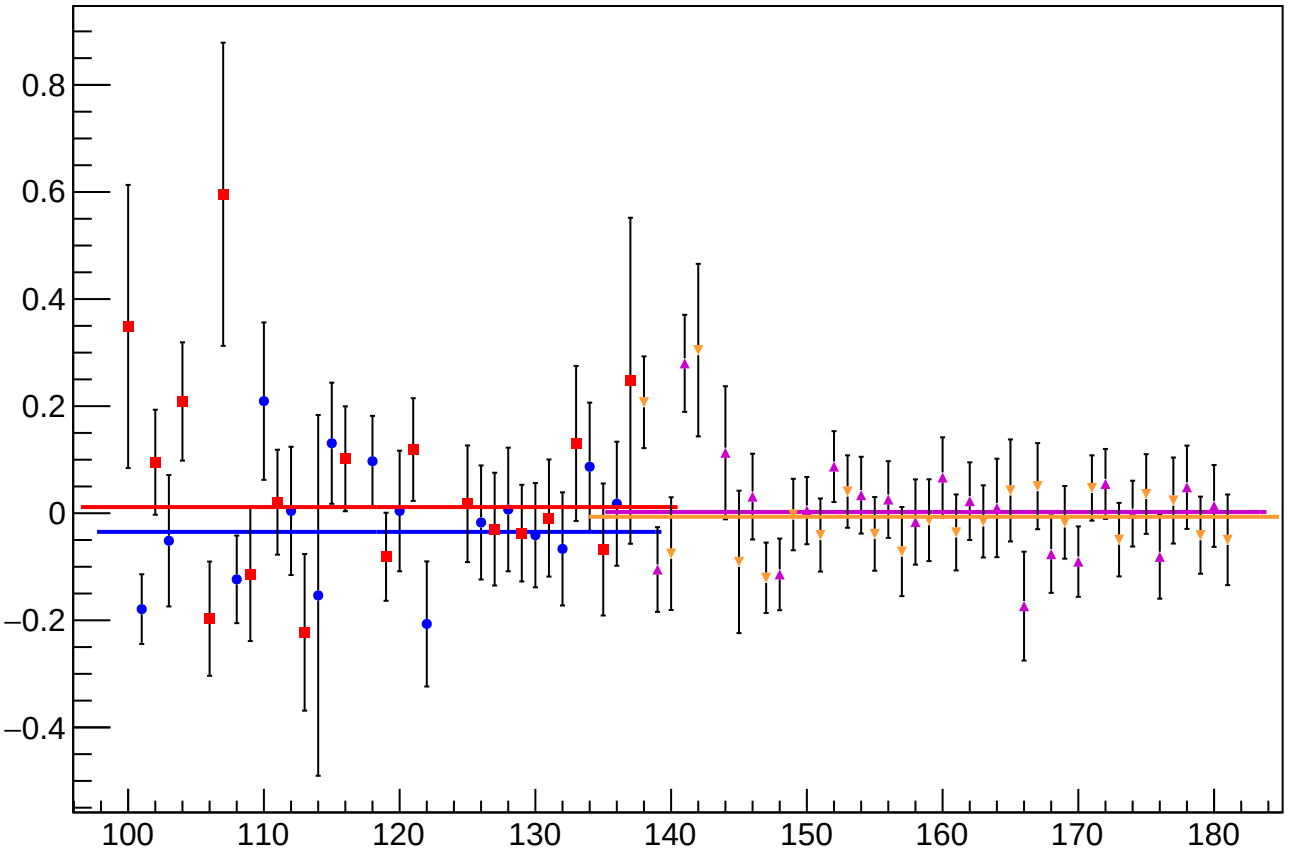
Left: 43.157+/-0.006 $\chi^2$/NDF: 2746526.2/42

Right: 45.679+/-0.010 $\chi^2$/NDF: 2540631.2/33

In: 43.487+/-0.007 $\chi^2$/NDF:2646123.9/36

Out: 44.118+/-0.007 $\chi^2$/NDF:2688860.5/39

All: 43.800+/-0.005 $\chi^2$/NDF: 5339275.5/76




Right In: -0.035+/-0.026 $\chi^2$/NDF: 17.4/15

Left Out: -0.007+/-0.016 $\chi^2$/NDF:18.5/21

Right Out: 0.012+/-0.027 $\chi^2$/NDF: 22.8/17

Left In: 0.002+/-0.016 $\chi^2$/NDF:26.3/20

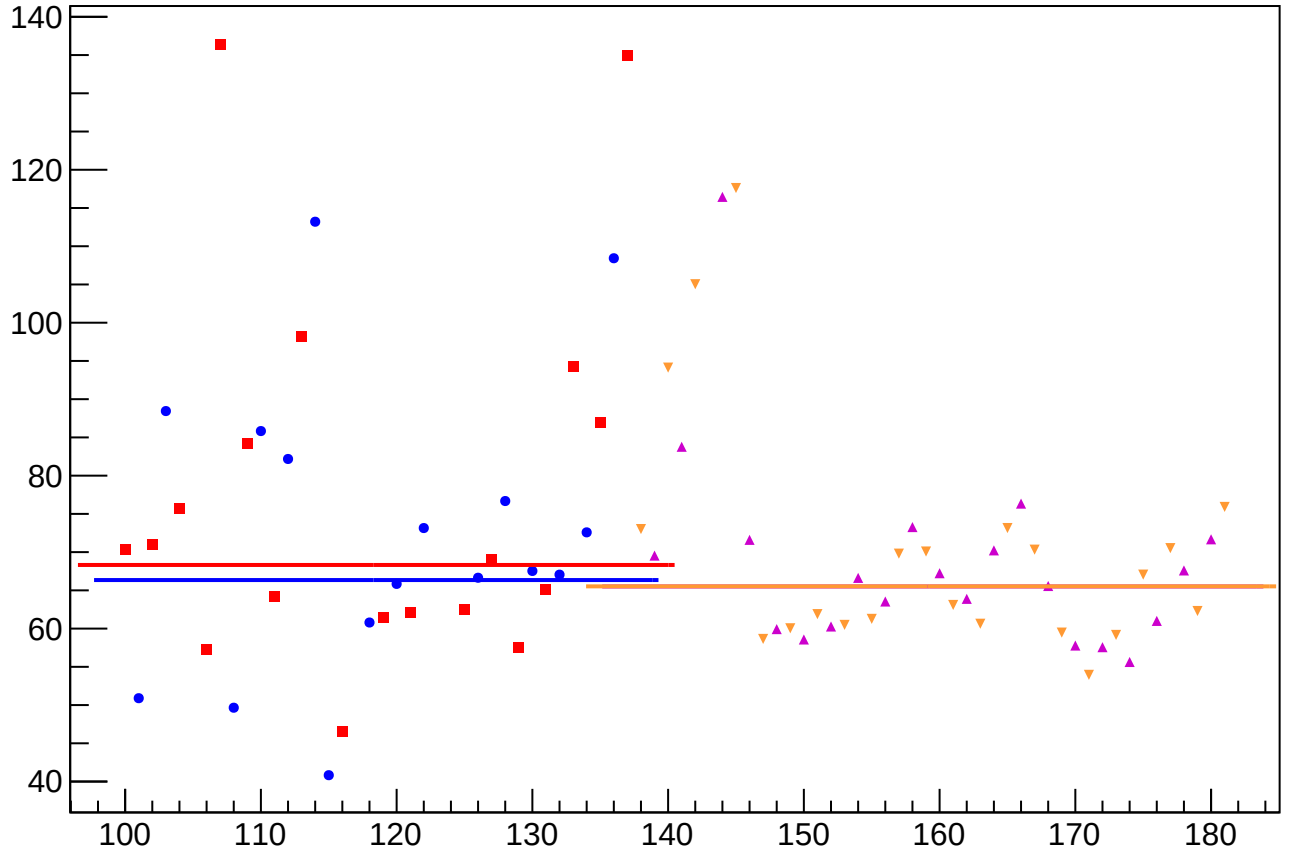
Left: -0.002+/-0.012 $\chi^2$/NDF: 45.0/42

Right: -0.012+/-0.019 $\chi^2$/NDF: 41.7/33

In: -0.008+/-0.014 $\chi^2$/NDF:45.2/36

Out: -0.002+/-0.014 $\chi^2$/NDF:41.6/39

All: -0.005+/-0.010 $\chi^2$/NDF: 86.9/76




Right In: 66.348+/-0.019 $\chi^2$/NDF: 772660.4/15

Left Out: 65.524+/-0.011 $\chi^2$/NDF:842596.0/21

Right Out: 68.321+/-0.019 $\chi^2$/NDF: 629665.7/17

Left In: 65.509+/-0.012 $\chi^2$/NDF:665673.9/20

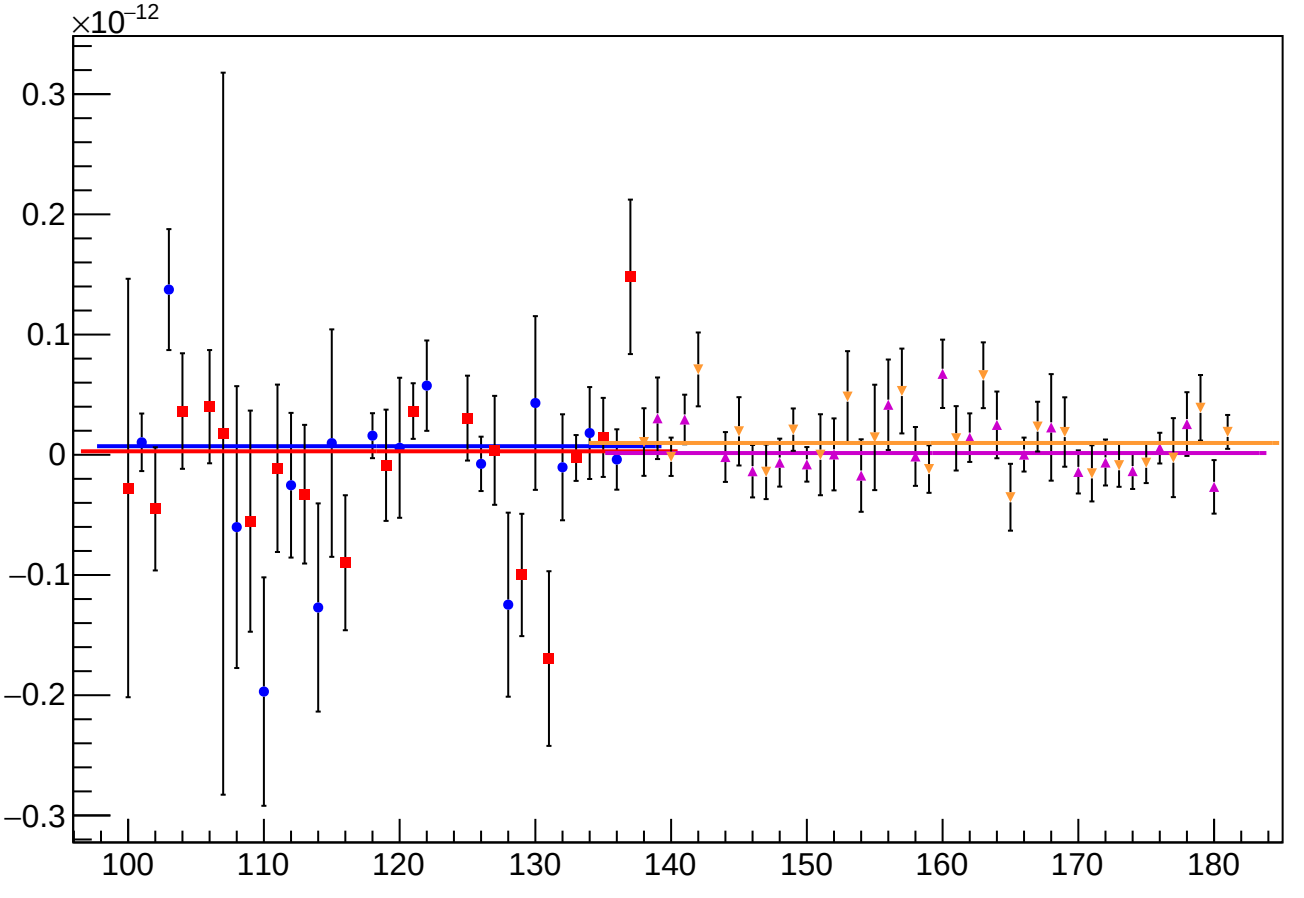
Left: 65.516+/-0.008 $\chi^2$/NDF: 1508270.7/42

Right: 67.311+/-0.013 $\chi^2$/NDF: 1407834.9/33

In: 65.742+/-0.010 $\chi^2$/NDF:1439806.8/36

Out: 66.272+/-0.010 $\chi^2$/NDF:1488109.0/39

All: 66.006+/-0.007 $\chi^2$/NDF: 2929370.1/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:16.4/20

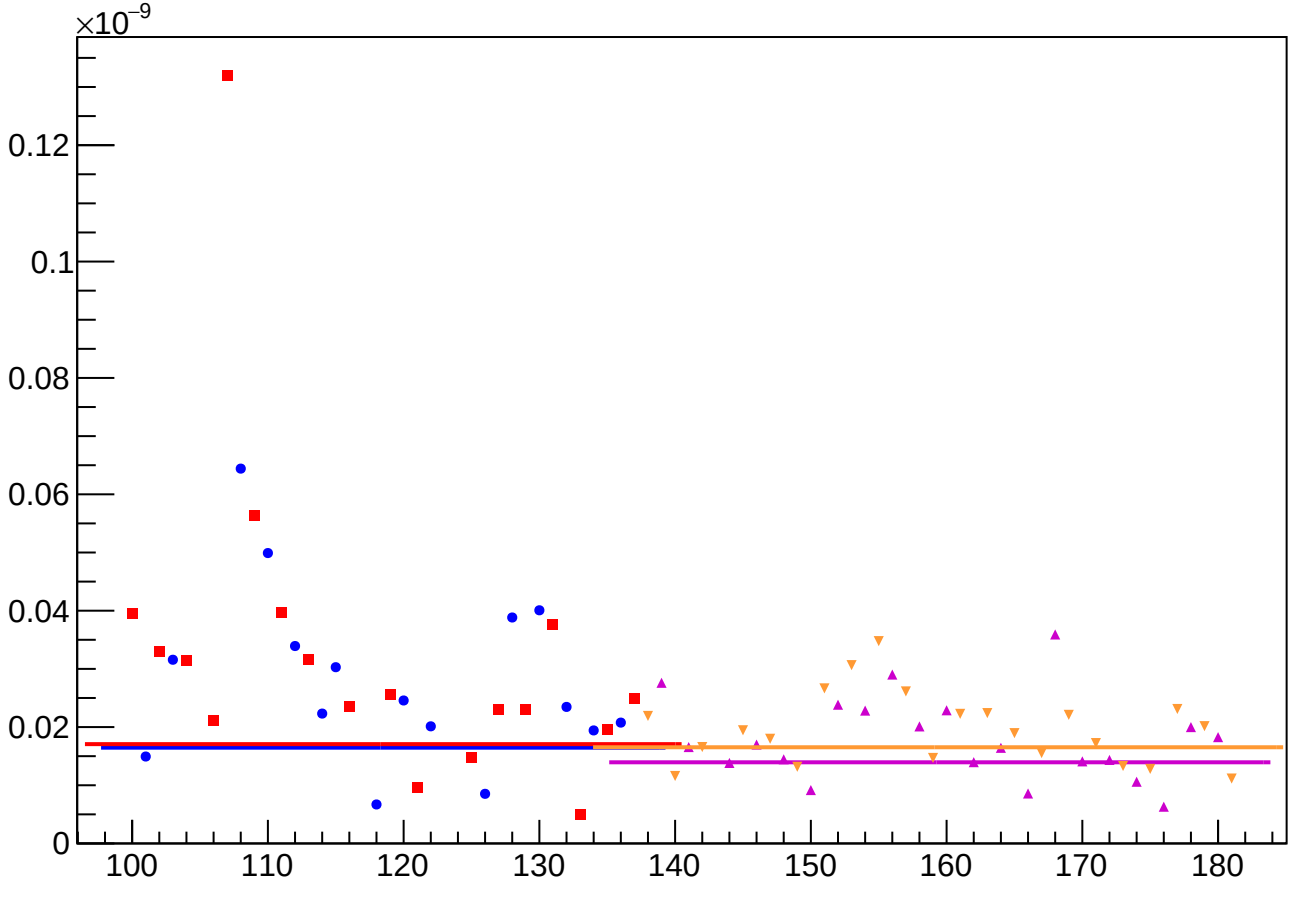
Left: 0.000+/-0.000 $\chi^2$/NDF: 40.3/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 43.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:37.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:46.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 84.2/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2345888.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2183385.9/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2791354.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:3446171.3/20

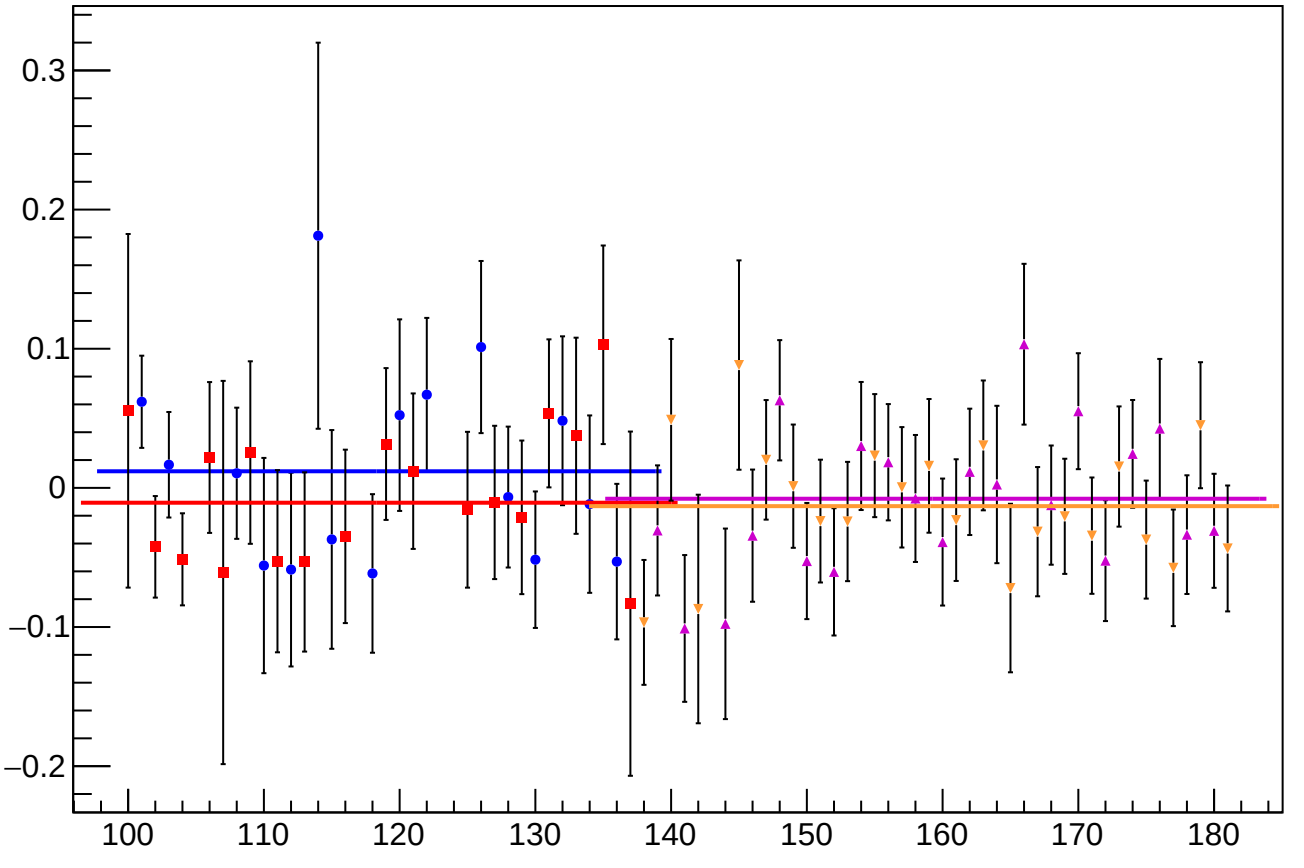
Left: 0.000+/-0.000 $\chi^2$/NDF: 5931887.4/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 5141308.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:5912937.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4979550.4/39

All: 0.000+/-0.000 $\chi^2$/NDF: 11167916.3/76




Right In: 0.012+/-0.014 $\chi^2$/NDF: 14.7/15

Left Out: -0.013+/-0.010 $\chi^2$/NDF:15.5/21

Right Out: -0.011+/-0.013 $\chi^2$/NDF: 9.9/17

Left In: -0.008+/-0.010 $\chi^2$/NDF:21.7/20

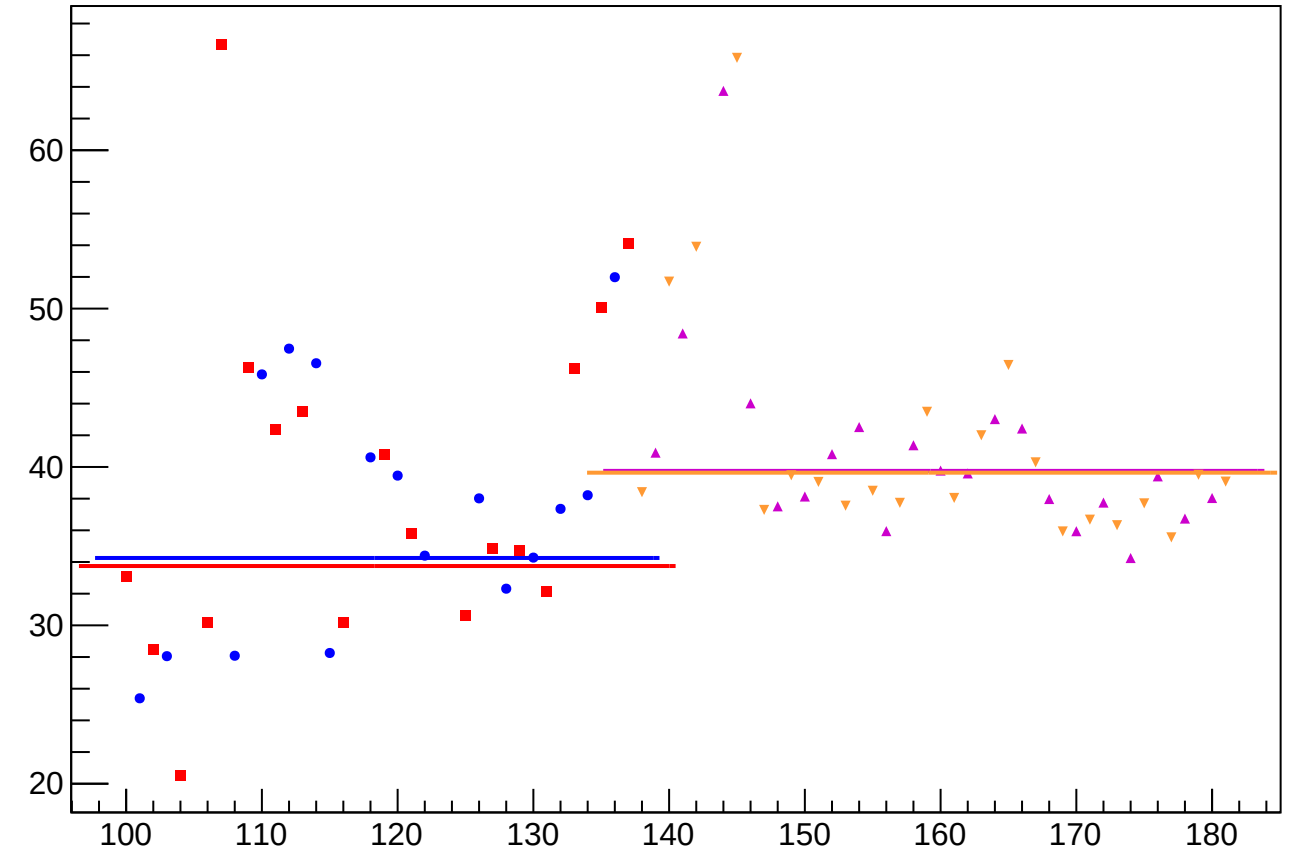
Left: -0.010+/-0.007 $\chi^2$/NDF: 37.4/42

Right: 0.000+/-0.010 $\chi^2$/NDF: 26.0/33

In: -0.001+/-0.008 $\chi^2$/NDF:37.8/36

Out: -0.012+/-0.008 $\chi^2$/NDF:25.5/39

All: -0.007+/-0.006 $\chi^2$/NDF: 64.2/76




Right In: 34.254+/-0.010 $\chi^2$/NDF: 636017.1/15

Left Out: 39.639+/-0.007 $\chi^2$/NDF:514494.6/21

Right Out: 33.746+/-0.010 $\chi^2$/NDF: 911938.6/17

Left In: 39.753+/-0.007 $\chi^2$/NDF:442193.7/20

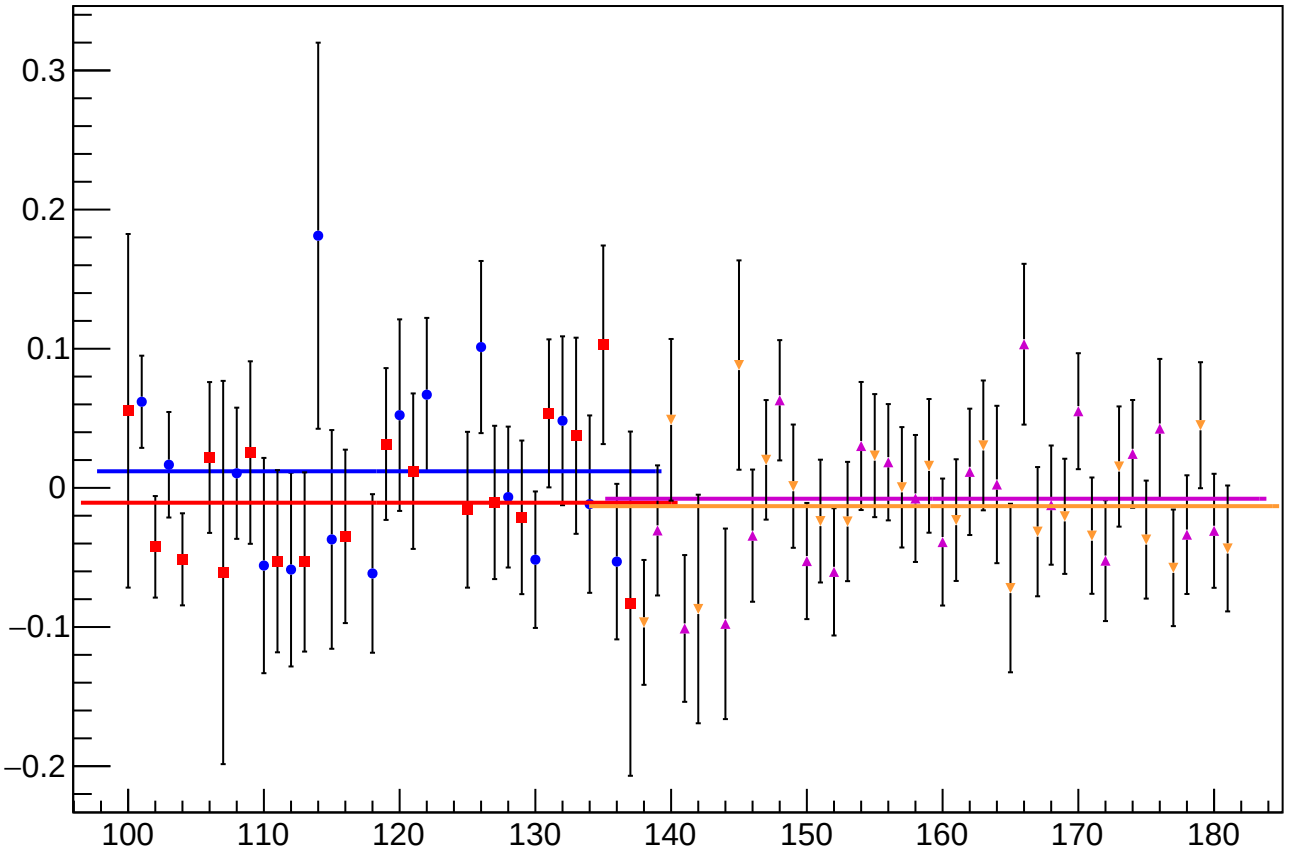
Left: 39.695+/-0.005 $\chi^2$/NDF: 956817.9/42

Right: 33.997+/-0.007 $\chi^2$/NDF: 1549368.8/33

In: 37.829+/-0.006 $\chi^2$/NDF:1290305.6/36

Out: 37.569+/-0.006 $\chi^2$/NDF:1675809.7/39

All: 37.697+/-0.004 $\chi^2$/NDF: 2967165.7/76




Right In: 0.012+/-0.014 $\chi^2$/NDF: 14.7/15

Left Out: -0.013+/-0.010 $\chi^2$/NDF:15.5/21

Right Out: -0.011+/-0.013 $\chi^2$/NDF: 9.9/17

Left In: -0.008+/-0.010 $\chi^2$/NDF:21.7/20

Left: -0.010+/-0.007 $\chi^2$/NDF: 37.4/42

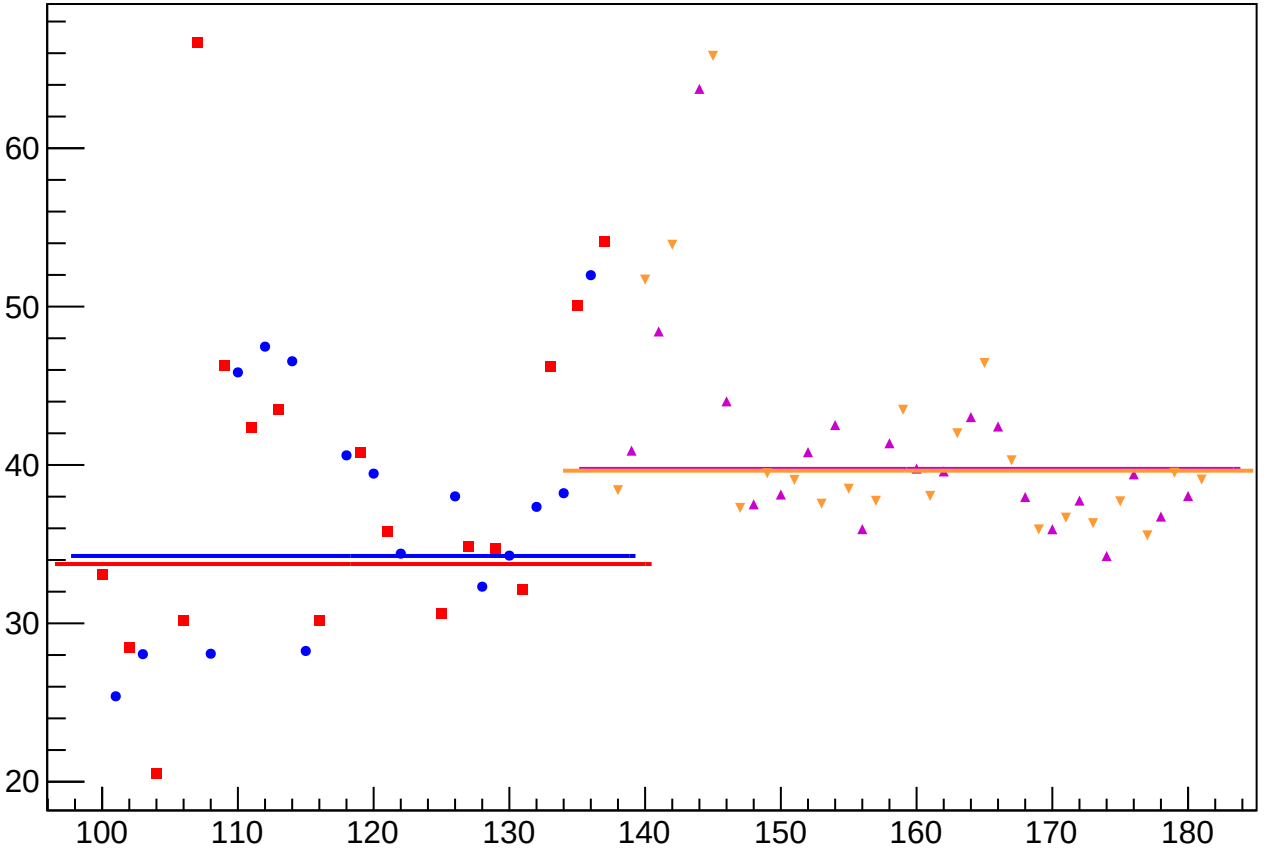
Right: 0.000+/-0.010 $\chi^2$/NDF: 26.0/33

In: -0.001+/-0.008 $\chi^2$/NDF:37.8/36

Out: -0.012+/-0.008 $\chi^2$/NDF:25.5/39

All: -0.007+/-0.006 $\chi^2$/NDF: 64.2/76

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.254+/-0.010 $\chi^2$/NDF: 636017.1/15

Left Out: 39.639+/-0.007 $\chi^2$/NDF:514494.6/21

Right Out: 33.746+/-0.010 $\chi^2$/NDF: 911938.6/17

Left In: 39.753+/-0.007 $\chi^2$/NDF:442193.7/20

Left: 39.695+/-0.005 $\chi^2$/NDF: 956817.9/42

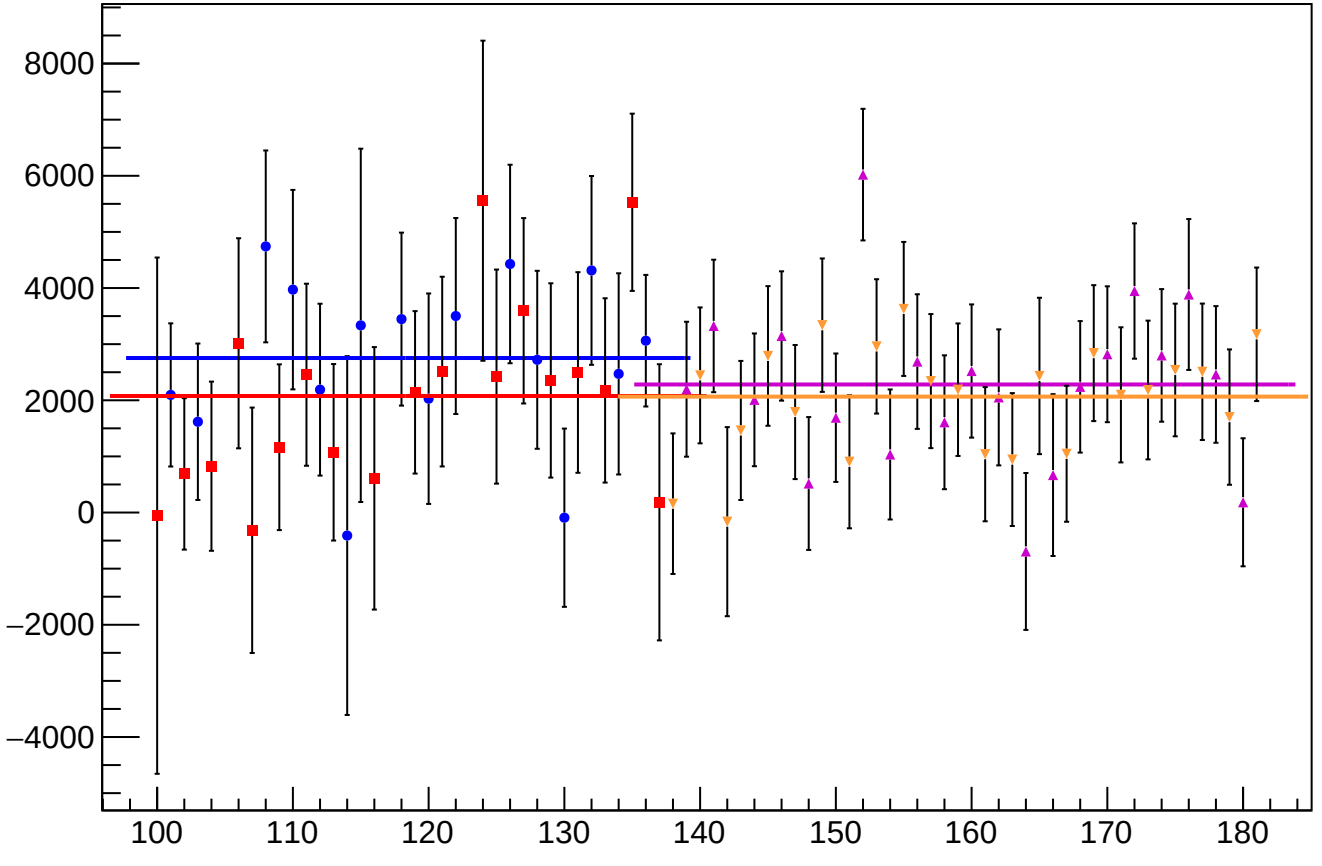
Right: 33.997+/-0.007 $\chi^2$/NDF: 1549368.8/33

In: 37.829+/-0.006 $\chi^2$/NDF:1290305.6/36

Out: 37.569+/-0.006 $\chi^2$/NDF:1675809.7/39

All: 37.697+/-0.004 $\chi^2$/NDF: 2967165.7/76

# reg_asym_usr_mean vs Slug, Sign Corrected




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 2065.044+/-255.409 $\chi^2$/NDF:13.3/22

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2281.602+/-263.333 $\chi^2$/NDF:28.6/20

Left: 2170.016+/-183.339 $\chi^2$/NDF: 42.3/43

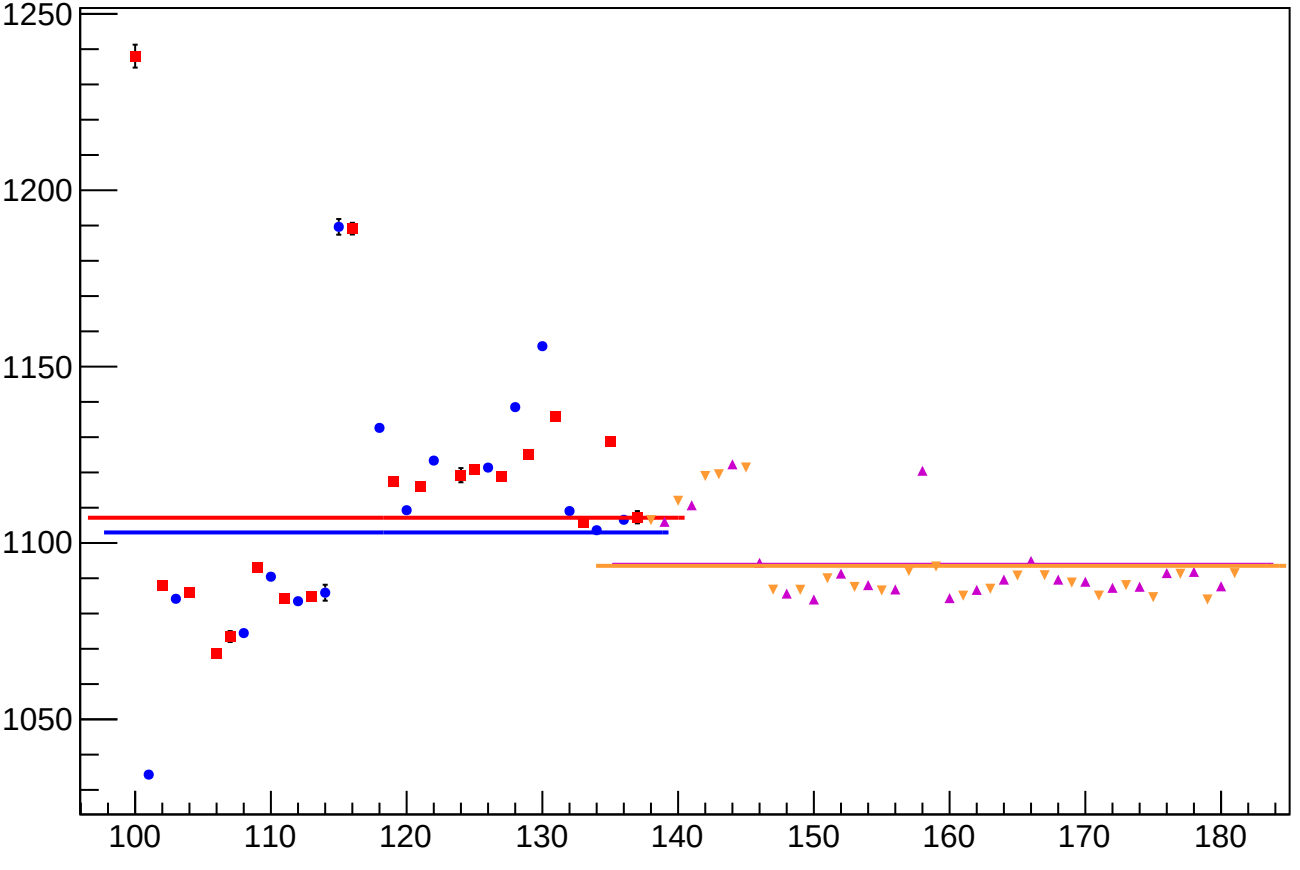
Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2419.384+/-221.543 $\chi^2$/NDF:39.1/36

Out: 2068.309+/-215.854 $\chi^2$/NDF:25.9/41

All: 2239.281+/-154.604 $\chi^2$/NDF: 66.2/78

# reg_asym_usr_rms vs Slug, Sign Corrected




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1093.525+/-0.181 $\chi^2$/NDF:3882.5/22

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1093.821+/-0.186 $\chi^2$/NDF:3598.9/20

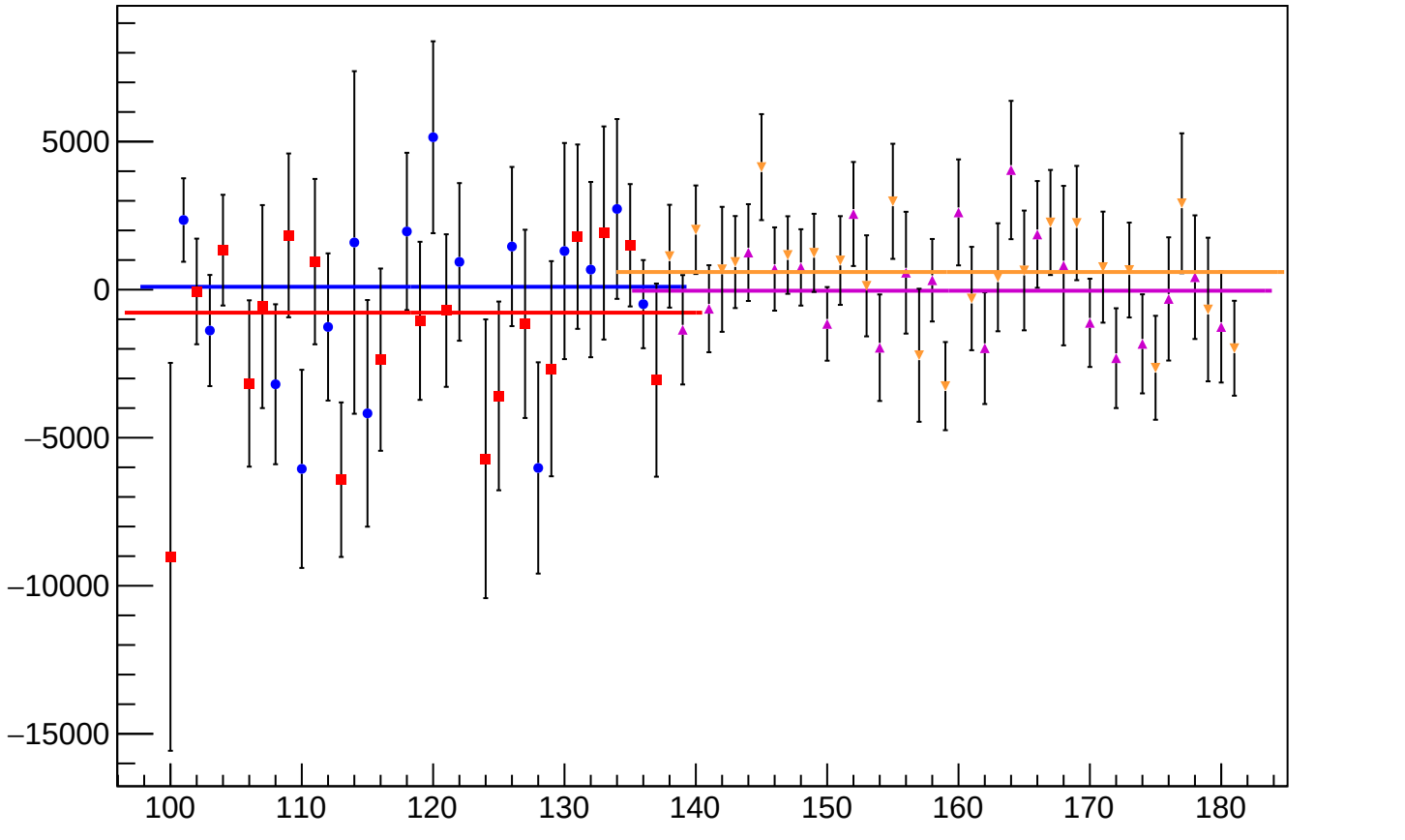
Left: 1093.669+/-0.130 $\chi^2$/NDF: 7482.7/43

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

In: 1096.500+/-0.157 $\chi^2$/NDF:17530.9/36

Out: 1097.421+/-0.153 $\chi^2$/NDF:14194.4/41

All: 1096.972+/-0.109 $\chi^2$/NDF: 31743.0/78




Right In: 95.955+/-618.095 $\chi^2$/NDF: 16.9/15

Left Out: 595.587+/-358.362 $\chi^2$/NDF:24.4/22

Right Out: -776.996+/-636.966 $\chi^2$/NDF: 15.1/18

Left In: -36.773+/-367.704 $\chi^2$/NDF:17.7/20

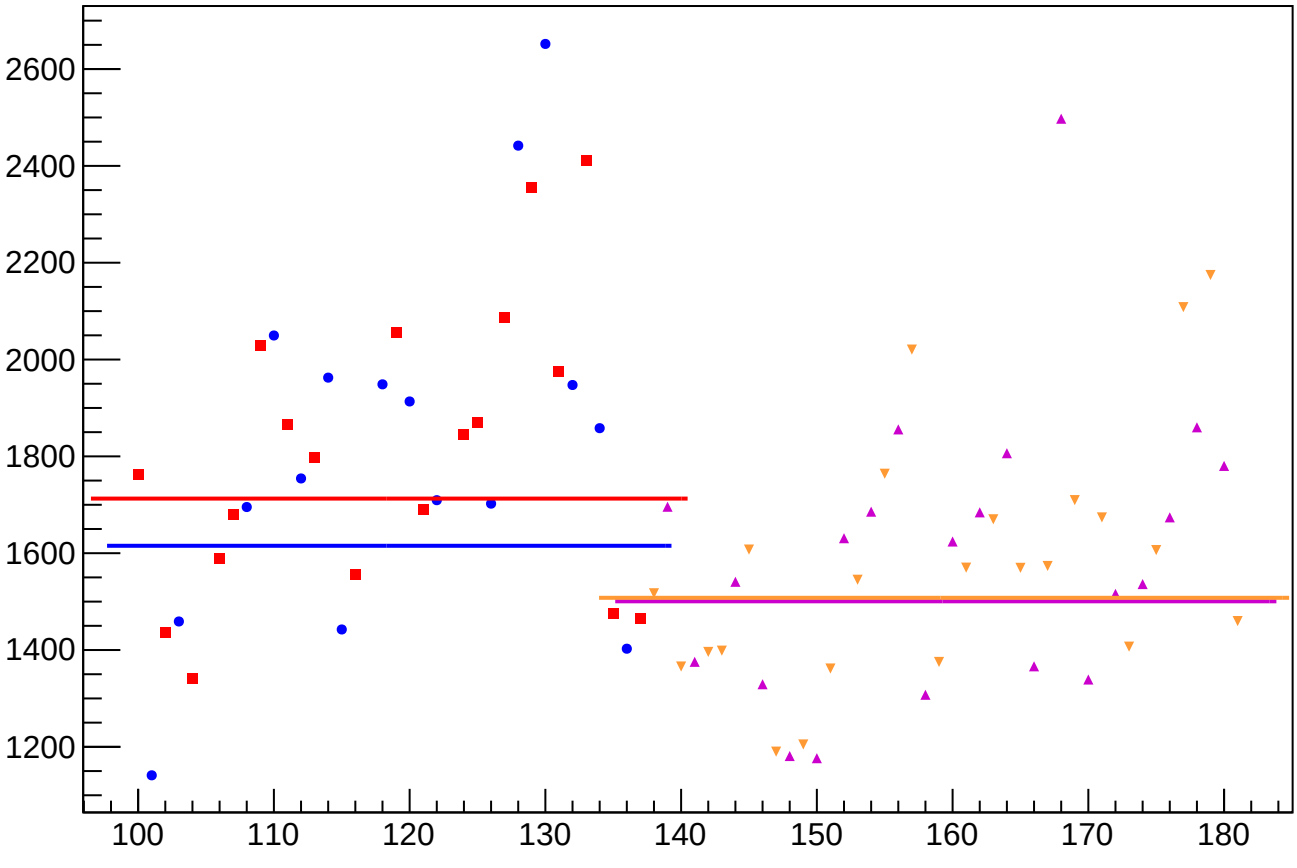
Left: 287.542+/-256.639 $\chi^2$/NDF: 43.7/43

Right: -327.398+/-443.581 $\chi^2$/NDF: 33.0/34

In: -2.078+/-316.012 $\chi^2$/NDF:34.7/36

Out: 265.583+/-312.325 $\chi^2$/NDF:43.0/41

All: 133.323+/-222.139 $\chi^2$/NDF: 78.1/78




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1507.877+/-0.253 $\chi^2$/NDF:794426.9/22

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1500.625+/-0.260 $\chi^2$/NDF:946796.6/20

Left: 1504.344+/-0.181 $\chi^2$/NDF: 1741622.5/43

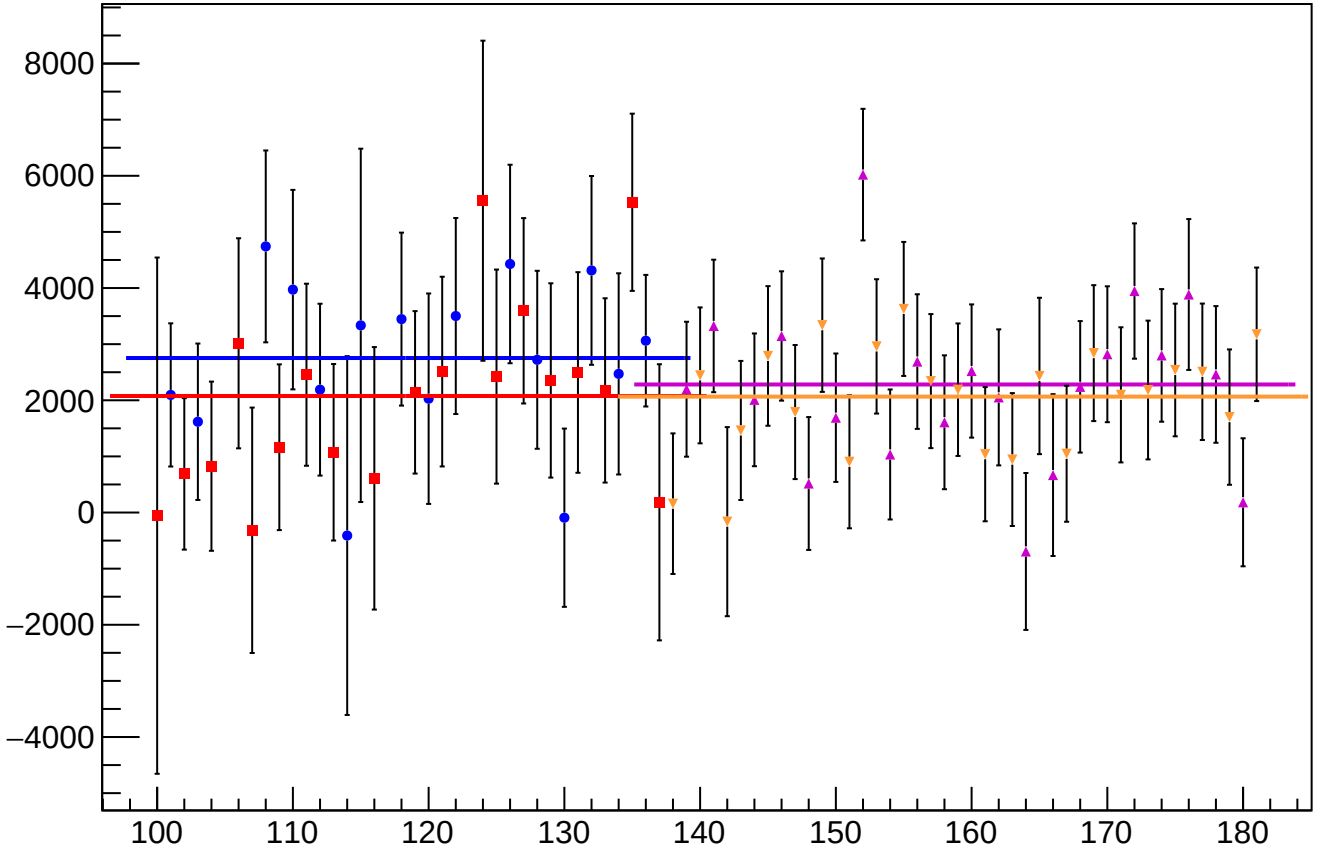
Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1530.605+/-0.223 $\chi^2$/NDF:1691287.7/36

Out: 1557.145+/-0.221 $\chi^2$/NDF:1379723.5/41

All: 1544.031+/-0.157 $\chi^2$/NDF: 3078147.7/78

# cor_asym_usr_mean vs Slug, Sign Corrected




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 2065.044+/-255.409 $\chi^2$/NDF:13.3/22

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2281.602+/-263.333 $\chi^2$/NDF:28.6/20

Left: 2170.016+/-183.339 $\chi^2$/NDF: 42.3/43

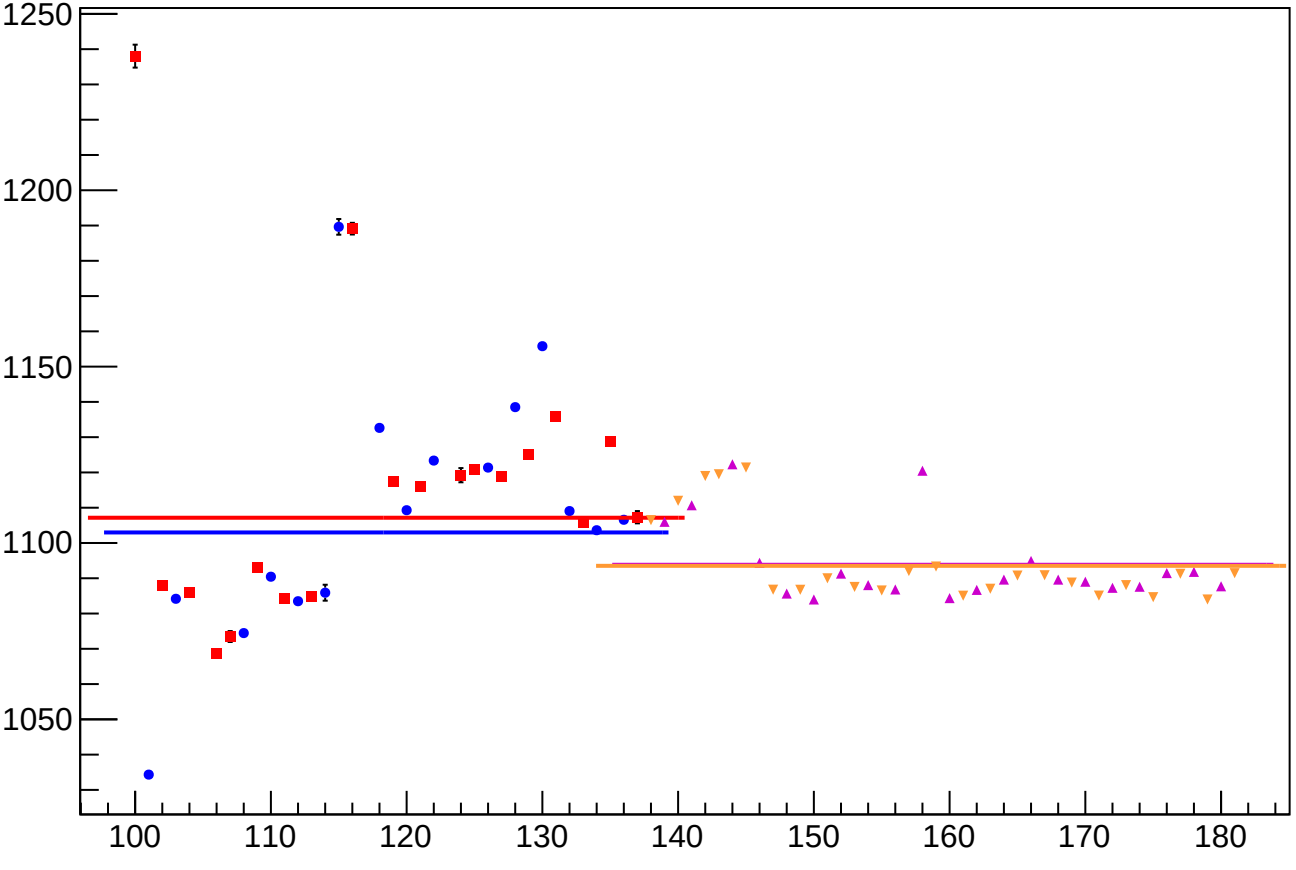
Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2419.384+/-221.543 $\chi^2$/NDF:39.1/36

Out: 2068.309+/-215.854 $\chi^2$/NDF:25.9/41

All: 2239.281+/-154.604 $\chi^2$/NDF: 66.2/78

# cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1093.525+/-0.181 $\chi^2$/NDF:3882.5/22

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1093.821+/-0.186 $\chi^2$/NDF:3598.9/20

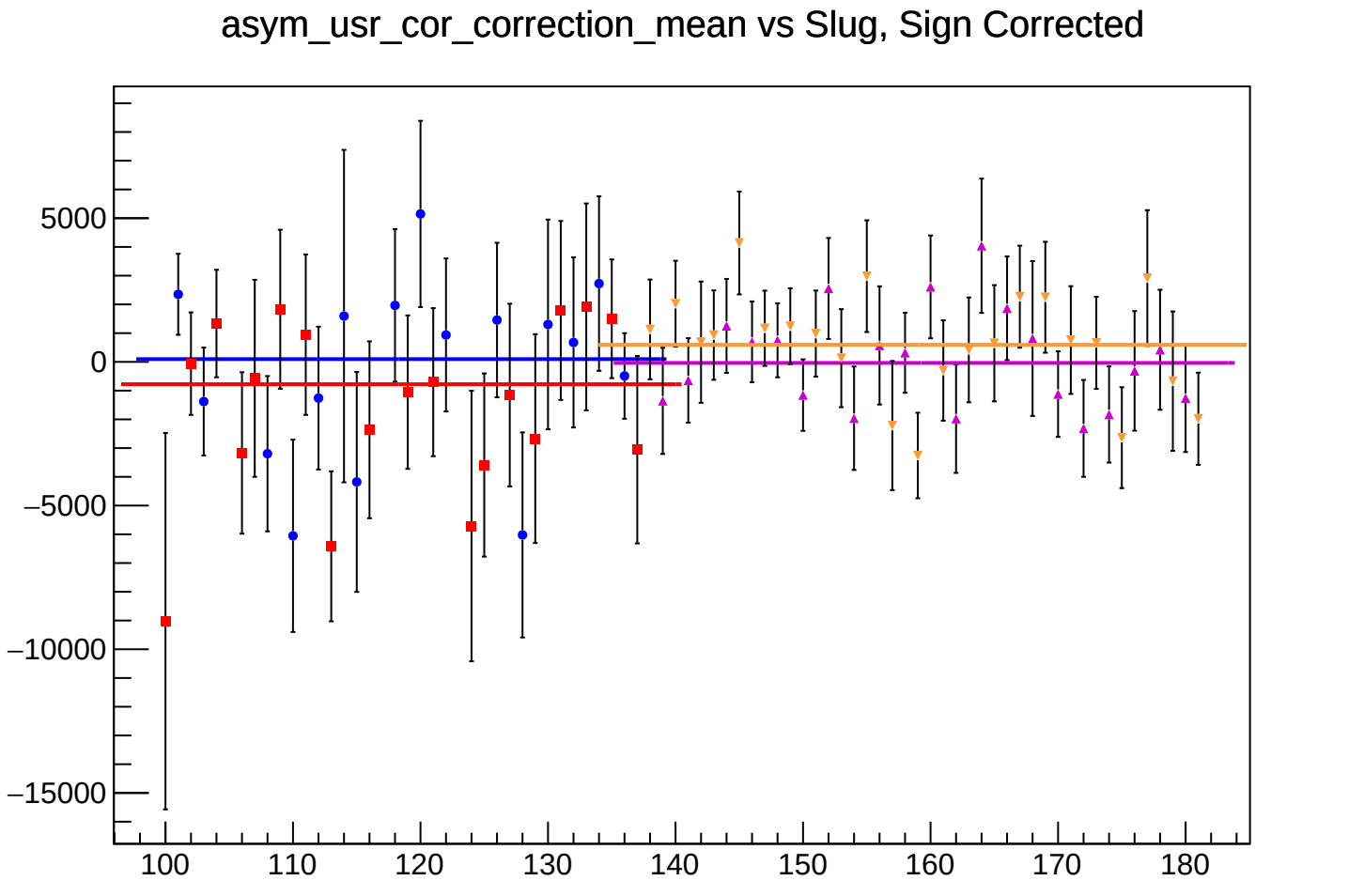
Left: 1093.669+/-0.130 $\chi^2$/NDF: 7482.7/43

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

In: 1096.500+/-0.157 $\chi^2$/NDF:17530.9/36

Out: 1097.421+/-0.153 $\chi^2$/NDF:14194.4/41

All: 1096.972+/-0.109 $\chi^2$/NDF: 31743.0/78




Right In: 95.955+/-618.095 $\chi^2$/NDF: 16.9/15

Left Out: 595.587+/-358.362 $\chi^2$/NDF:24.4/22

Right Out: -776.996+/-636.966 $\chi^2$/NDF: 15.1/18

Left In: -36.773+/-367.704 $\chi^2$/NDF:17.7/20

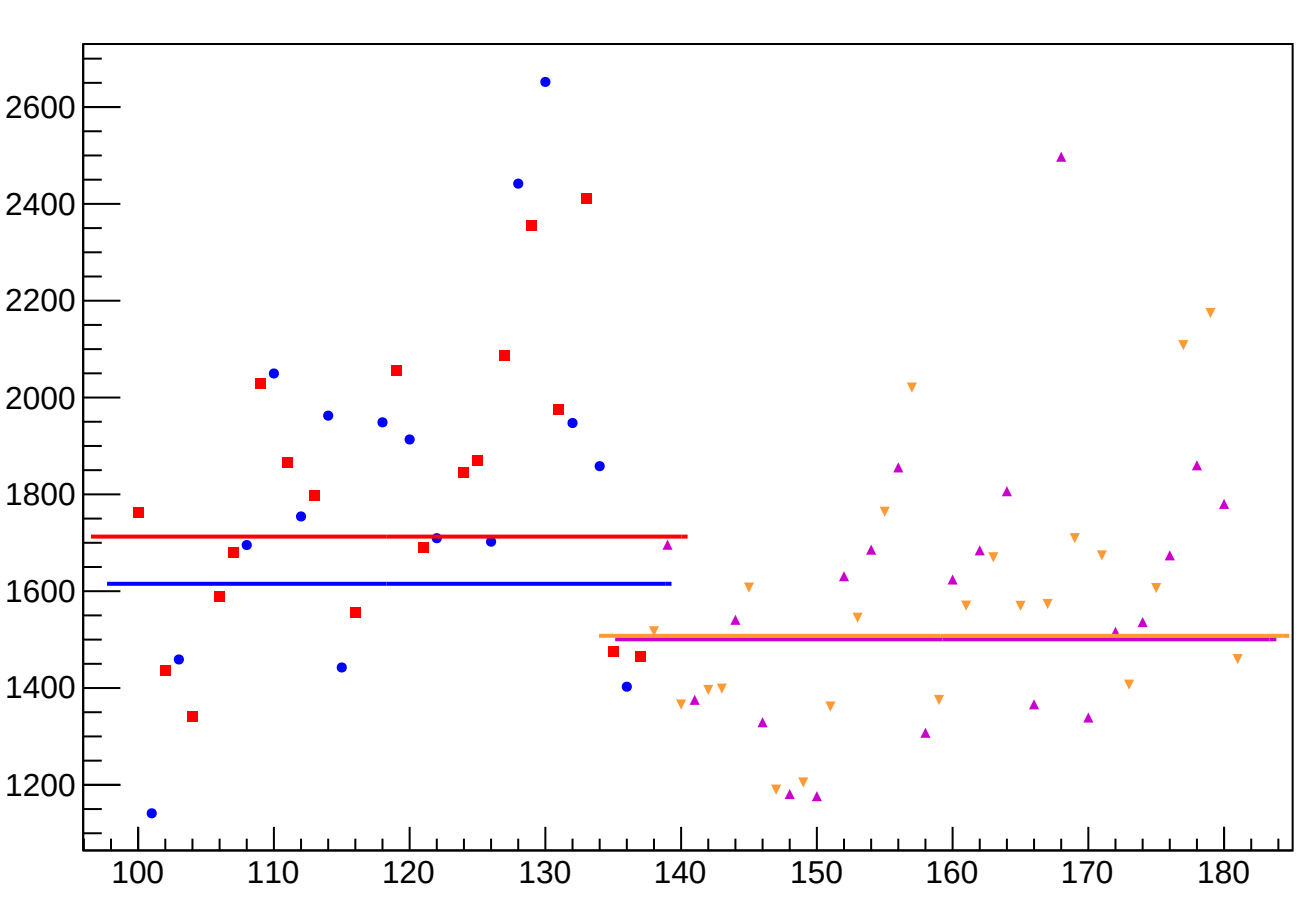
Left: 287.542+/-256.639 $\chi^2$/NDF: 43.7/43

Right: -327.398+/-443.581 $\chi^2$/NDF: 33.0/34

In: -2.078+/-316.012 $\chi^2$/NDF:34.7/36

Out: 265.583+/-312.325 $\chi^2$/NDF:43.0/41

All: 133.323+/-222.139 $\chi^2$/NDF: 78.1/78




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1507.877+/-0.253 $\chi^2$/NDF:794426.9/22

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1500.625+/-0.260 $\chi^2$/NDF:946796.6/20

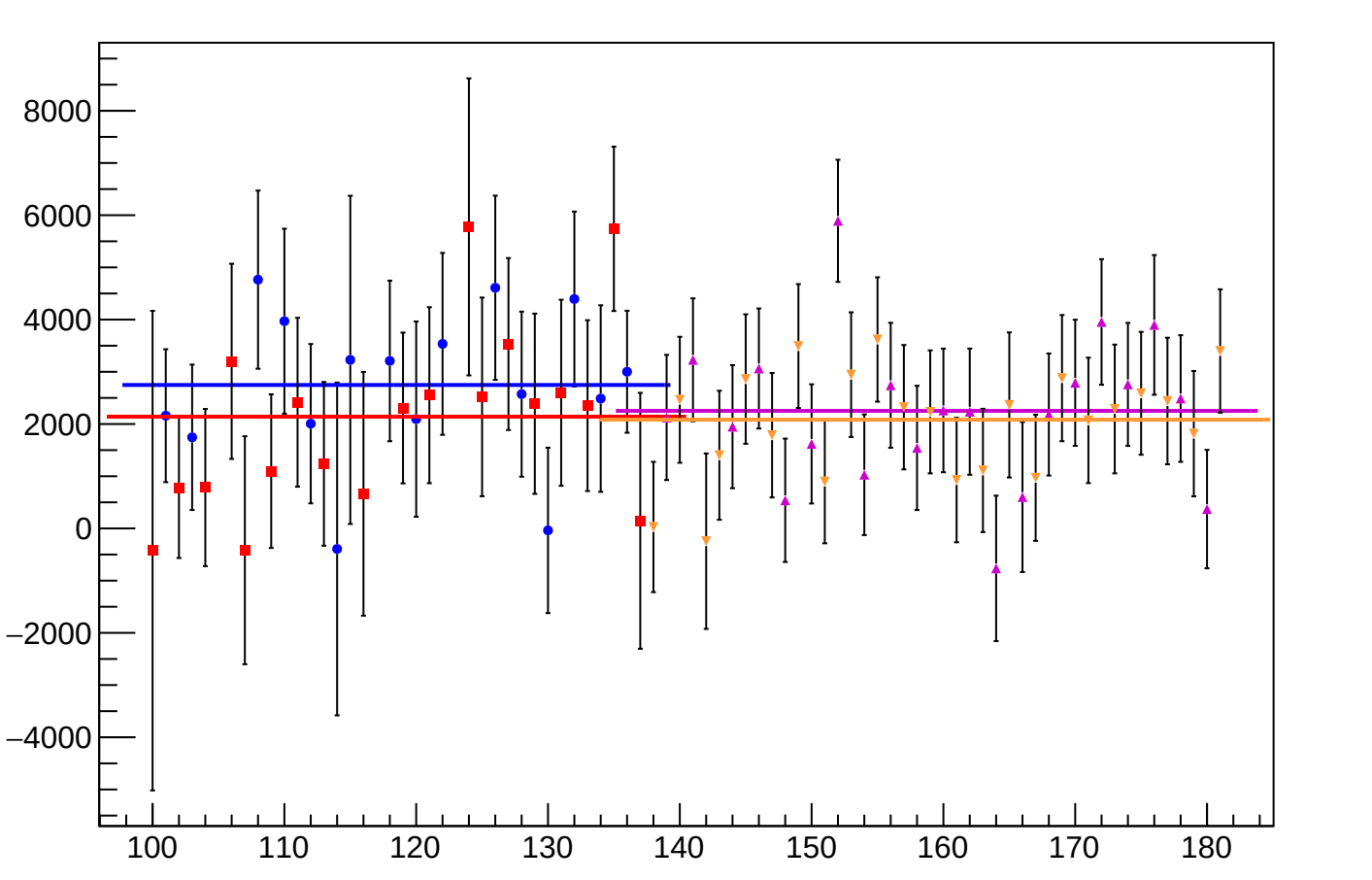
Left: 1504.344+/-0.181 $\chi^2$/NDF: 1741622.5/43

Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1530.605+/-0.223 $\chi^2$/NDF:1691287.7/36

Out: 1557.145+/-0.221 $\chi^2$/NDF:1379723.5/41

All: 1544.031+/-0.157 $\chi^2$/NDF: 3078147.7/78




Right In: 2747.939+/-408.759 $\chi^2$/NDF: 9.5/15

Left Out: 2083.012+/-254.656 $\chi^2$/NDF:14.7/22

Right Out: 2141.169+/-402.789 $\chi^2$/NDF: 13.6/18

Left In: 2252.624+/-262.582 $\chi^2$/NDF:27.7/20

Left: 2165.219+/-182.807 $\chi^2$/NDF: 42.6/43

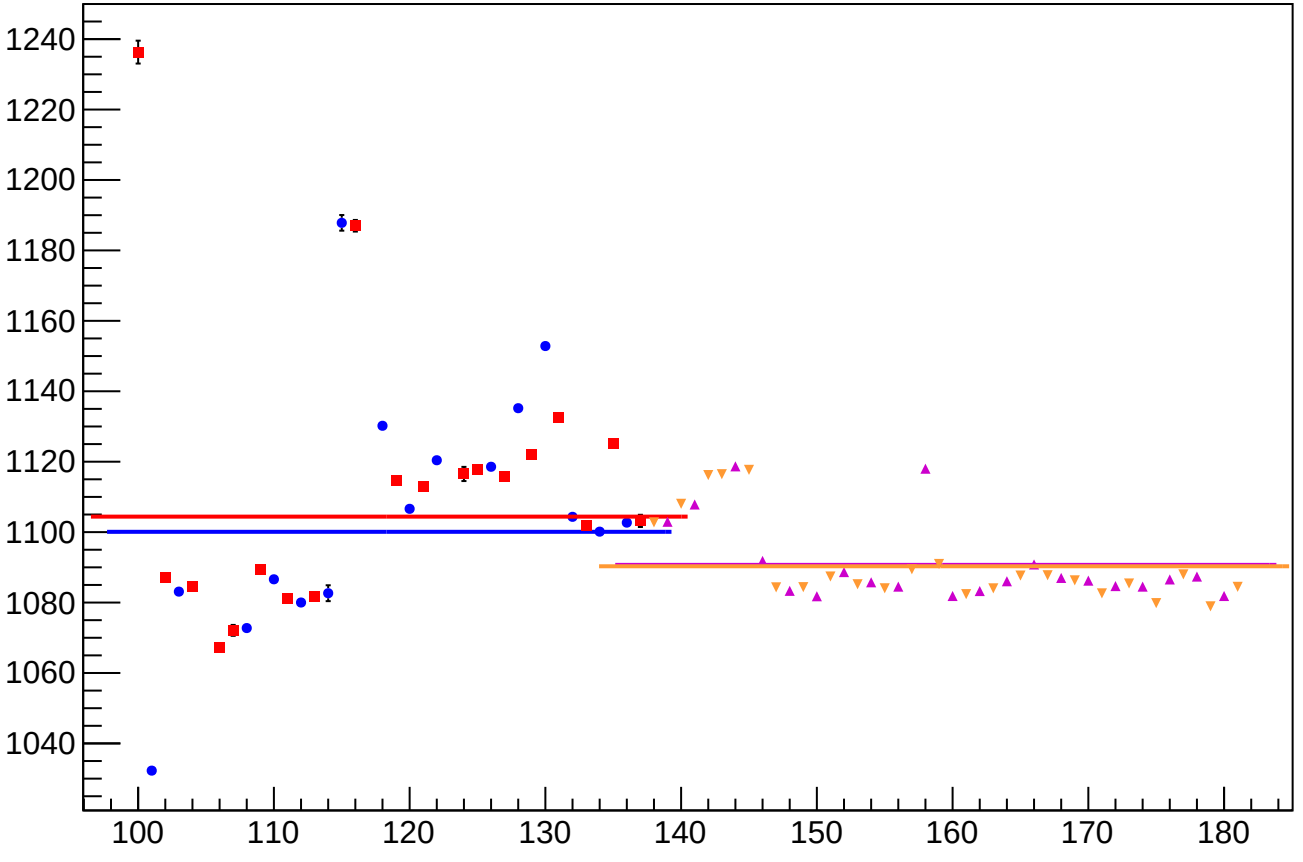
Right: 2440.090+/-286.902 $\chi^2$/NDF: 24.2/34

In: 2397.314+/-220.925 $\chi^2$/NDF:38.3/36

Out: 2099.620+/-215.245 $\chi^2$/NDF:28.2/41

All: 2244.590+/-154.170 $\chi^2$/NDF: 67.4/78

# overload_cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1100.090+/-0.289 $\chi^2$/NDF: 13077.1/15

Left Out: 1090.303+/-0.180 $\chi^2$/NDF:3873.3/22

Right Out: 1104.403+/-0.285 $\chi^2$/NDF: 8543.5/18

Left In: 1090.701+/-0.186 $\chi^2$/NDF:3627.3/20

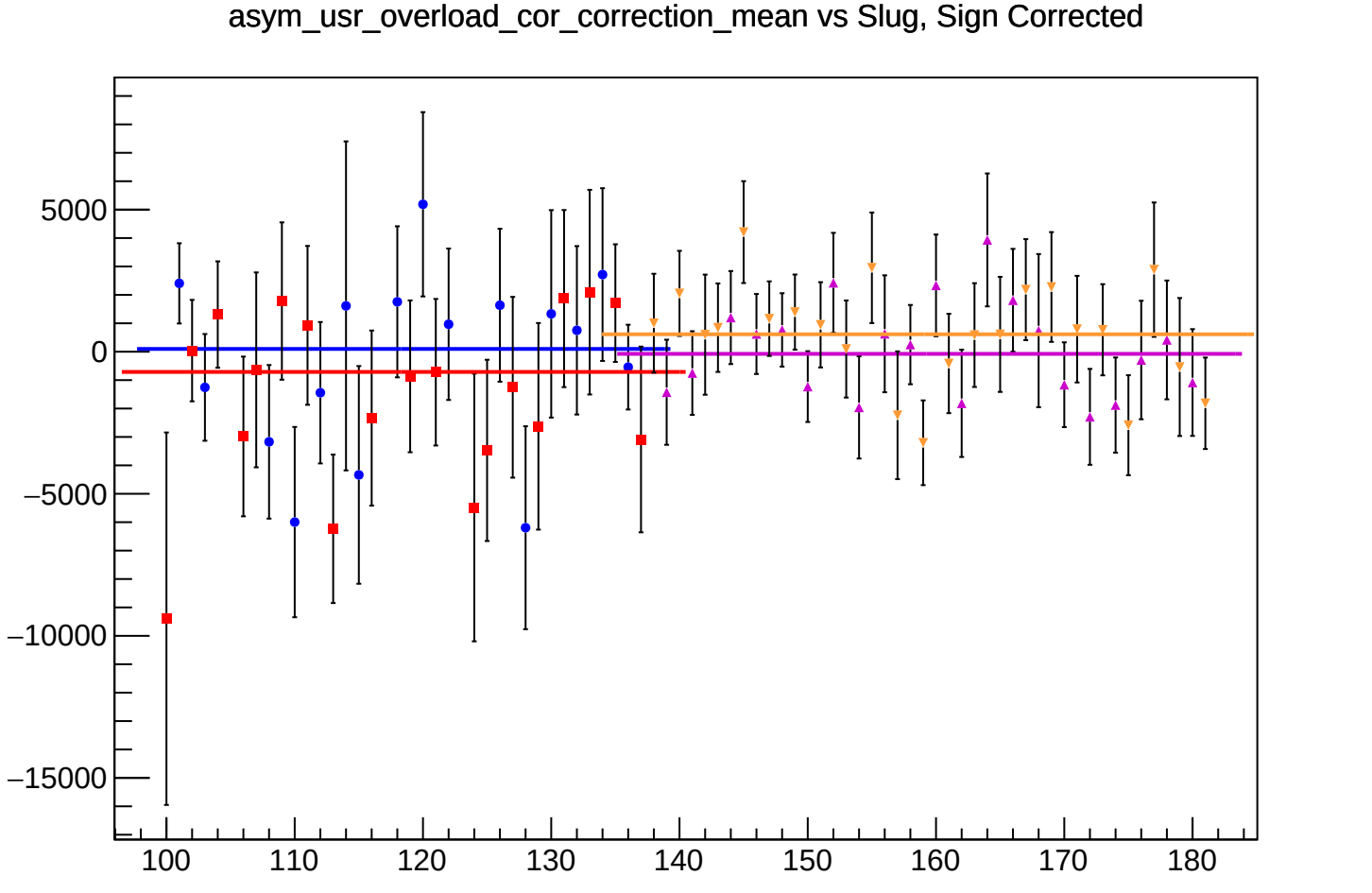
Left: 1090.496+/-0.129 $\chi^2$/NDF: 7502.9/43

Right: 1102.278+/-0.203 $\chi^2$/NDF: 21733.6/34

In: 1093.444+/-0.156 $\chi^2$/NDF:17451.4/36

Out: 1094.329+/-0.152 $\chi^2$/NDF:14167.7/41

All: 1093.898+/-0.109 $\chi^2$/NDF: 31635.6/78




Right In: 97.435+/-618.876 $\chi^2$/NDF: 17.2/15

Left Out: 613.840+/-358.940 $\chi^2$/NDF:23.9/22

Right Out: -711.287+/-637.587 $\chi^2$/NDF: 14.9/18

Left In: -75.765+/-368.261 $\chi^2$/NDF:16.7/20

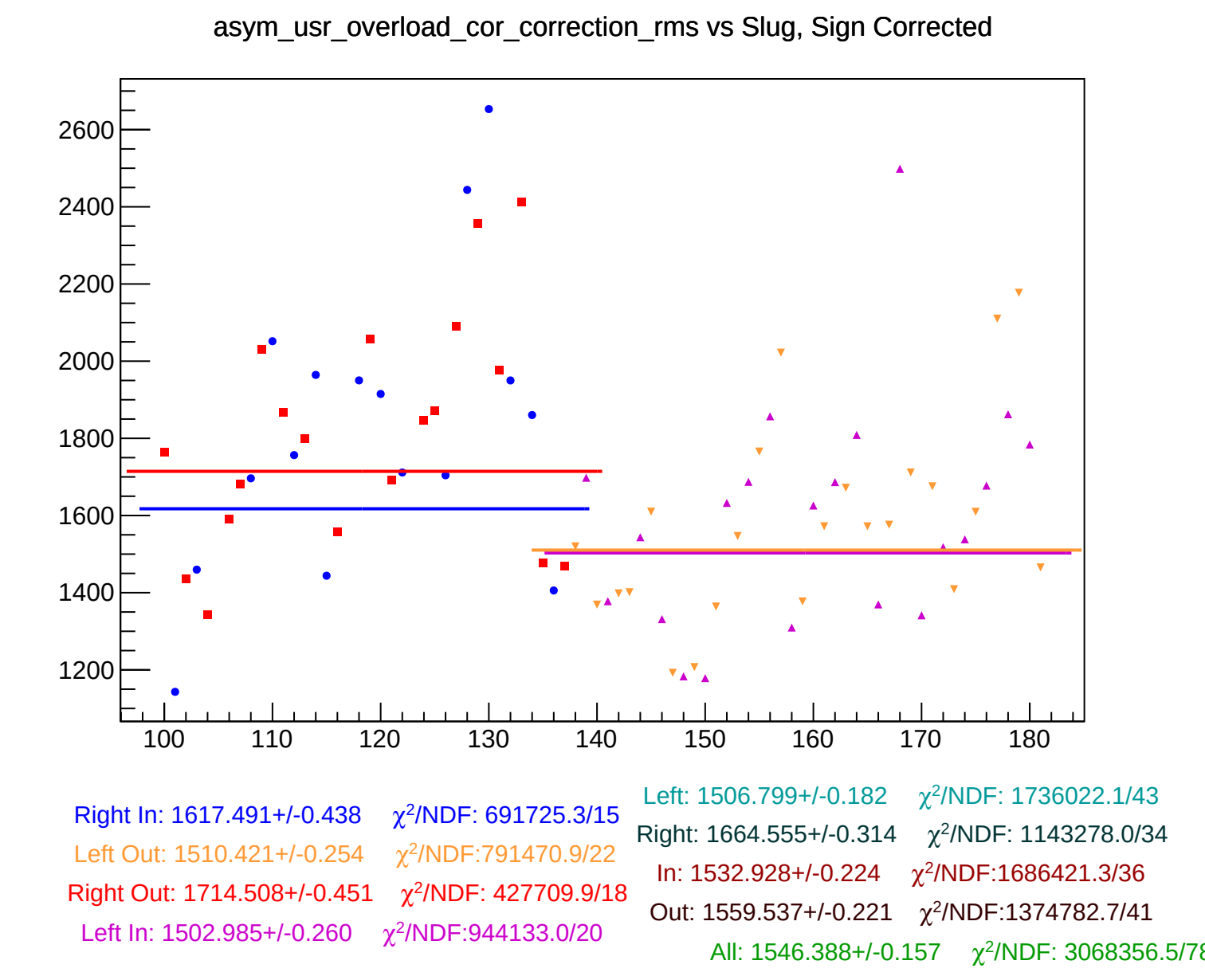
Left: 277.875+/-257.041 $\chi^2$/NDF: 42.4/43

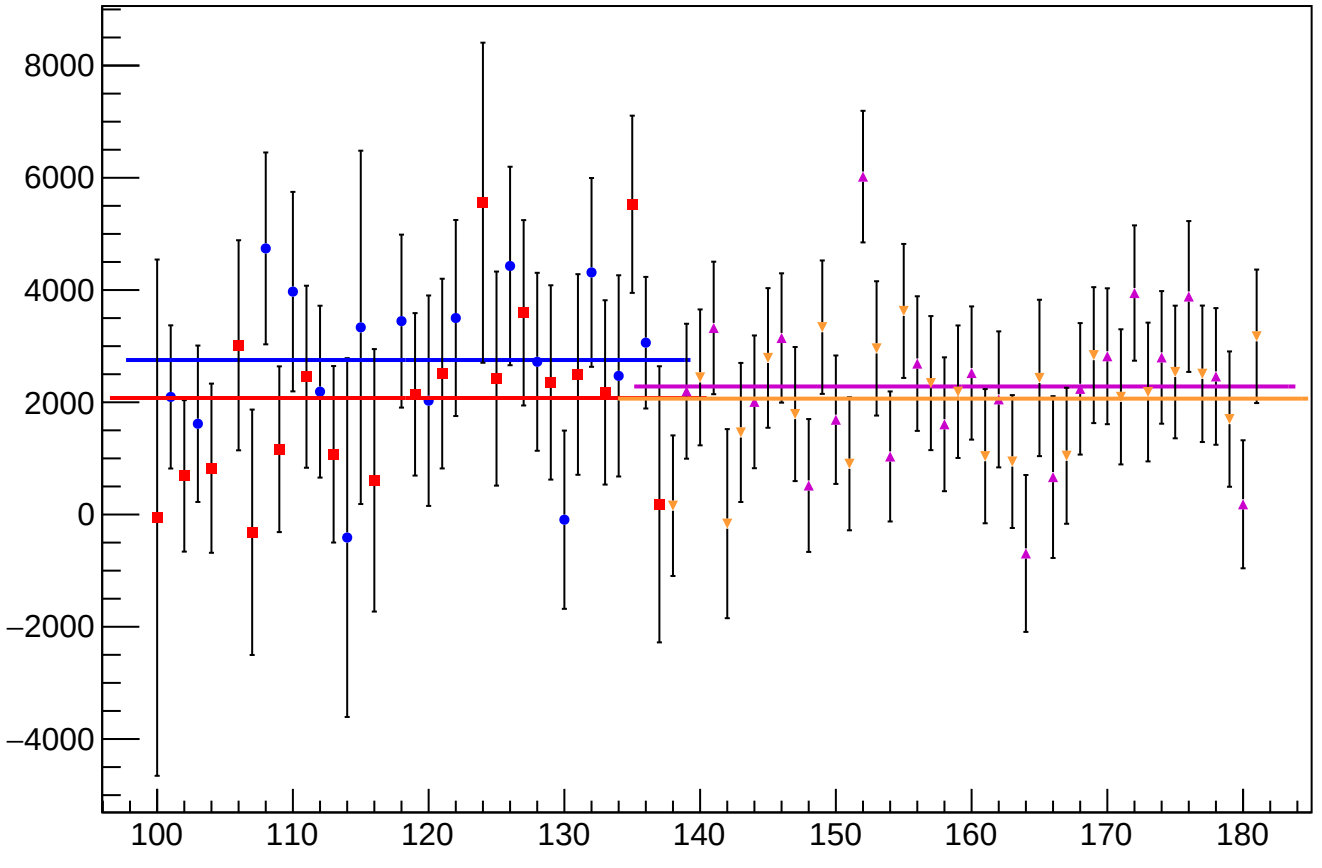
Right: -294.885+/-444.079 $\chi^2$/NDF: 33.0/34

In: -30.475+/-316.471 $\chi^2$/NDF:34.0/36

Out: 294.937+/-312.781 $\chi^2$/NDF:42.1/41

All: 134.139+/-222.463 $\chi^2$/NDF: 76.7/78


asym_usr_overload_cor_correction_rms vs Slug, Sign Corrected
2600
2400
2200
2000
1800
1600
1400
1200
100
110
120
130
140
150
160
170
180
Right In: 1617.491+/-0.438 χ²/NDF: 691725.3/15
Left Out: 1510.421+/-0.254 χ²/NDF:791470.9/22
Right Out: 1714.508+/-0.451 χ²/NDF: 427709.9/18
Left In: 1502.985+/-0.260 χ²/NDF:944133.0/20
Left: 1506.799+/-0.182 χ²/NDF: 1736022.1/43
Right: 1664.555+/-0.314 χ²/NDF: 1143278.0/34
In: 1532.928+/-0.224 χ²/NDF:1686421.3/36
Out: 1559.537+/-0.221 χ²/NDF:1374782.7/41
All: 1546.388+/-0.157 χ²/NDF: 3068356.5/78




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 2065.044+/-255.409 $\chi^2$/NDF:13.3/22

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2281.602+/-263.333 $\chi^2$/NDF:28.6/20

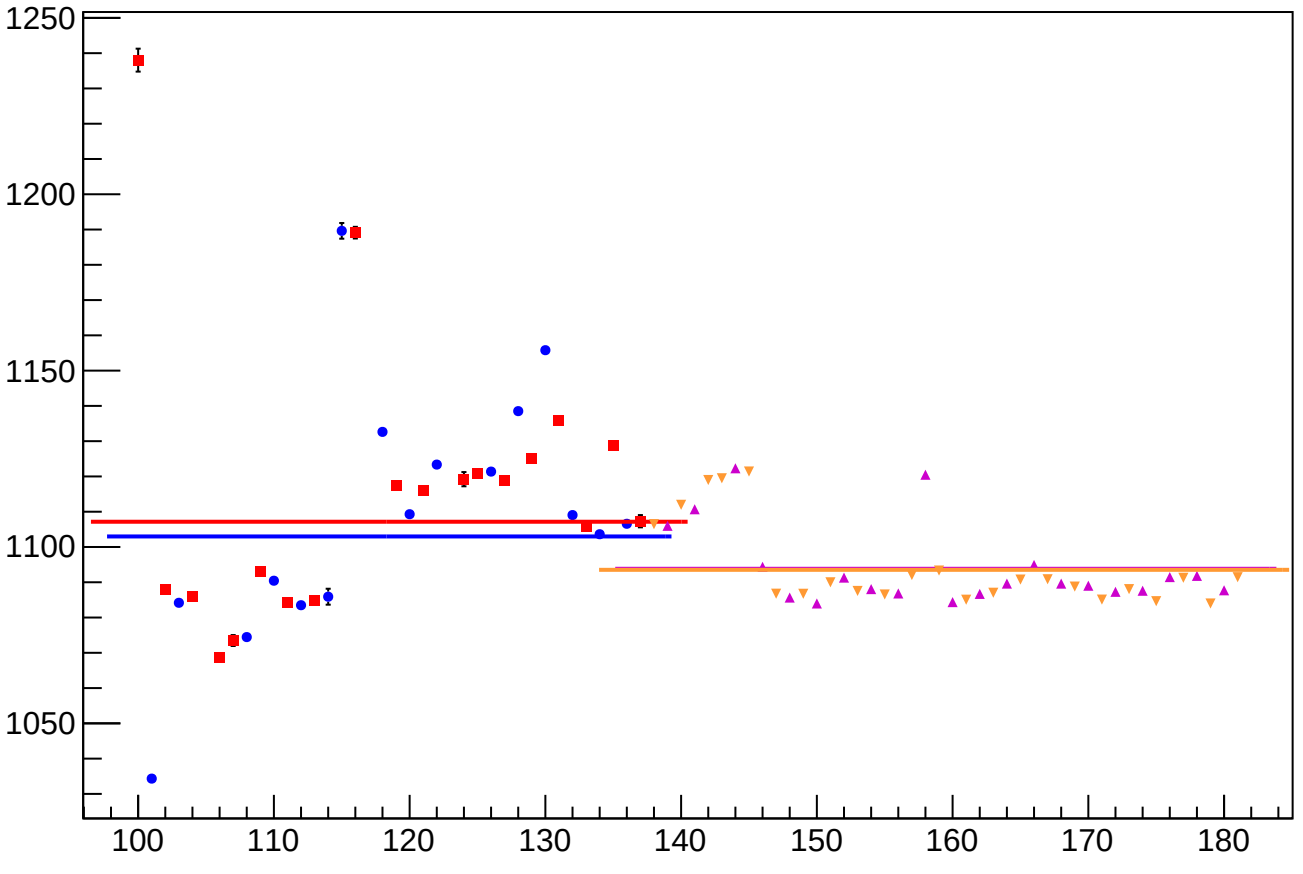
Left: 2170.016+/-183.339 $\chi^2$/NDF: 42.3/43

Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2419.384+/-221.543 $\chi^2$/NDF:39.1/36

Out: 2068.309+/-215.854 $\chi^2$/NDF:25.9/41

All: 2239.281+/-154.604 $\chi^2$/NDF: 66.2/78




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1093.525+/-0.181 $\chi^2$/NDF:3882.5/22

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1093.821+/-0.186 $\chi^2$/NDF:3598.9/20

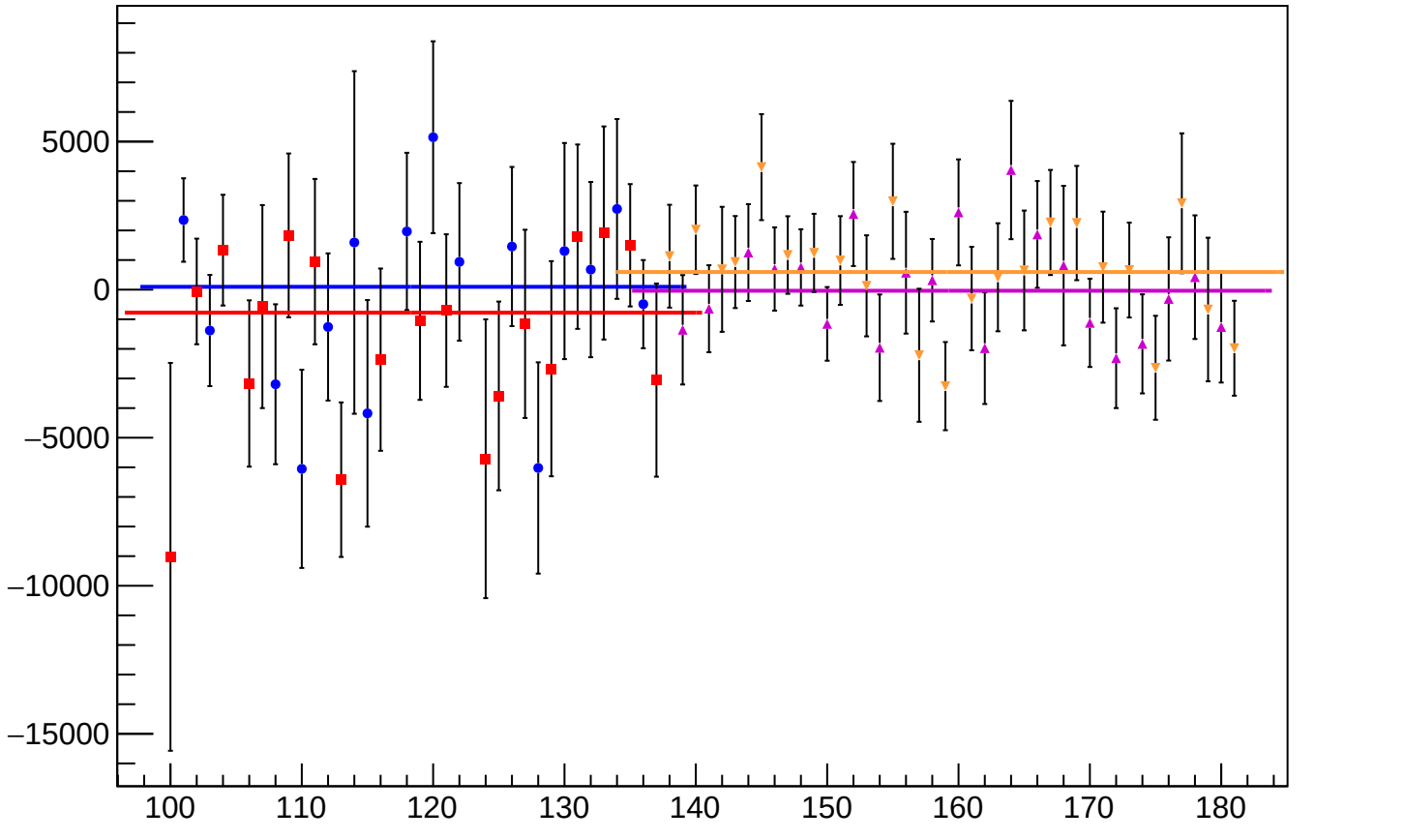
Left: 1093.669+/-0.130 $\chi^2$/NDF: 7482.7/43

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

In: 1096.500+/-0.157 $\chi^2$/NDF:17530.9/36

Out: 1097.421+/-0.153 $\chi^2$/NDF:14194.4/41

All: 1096.972+/-0.109 $\chi^2$/NDF: 31743.0/78




Right In: 95.955+/-618.095 $\chi^2$/NDF: 16.9/15

Left Out: 595.587+/-358.362 $\chi^2$/NDF:24.4/22

Right Out: -776.996+/-636.966 $\chi^2$/NDF: 15.1/18

Left In: -36.773+/-367.704 $\chi^2$/NDF:17.7/20

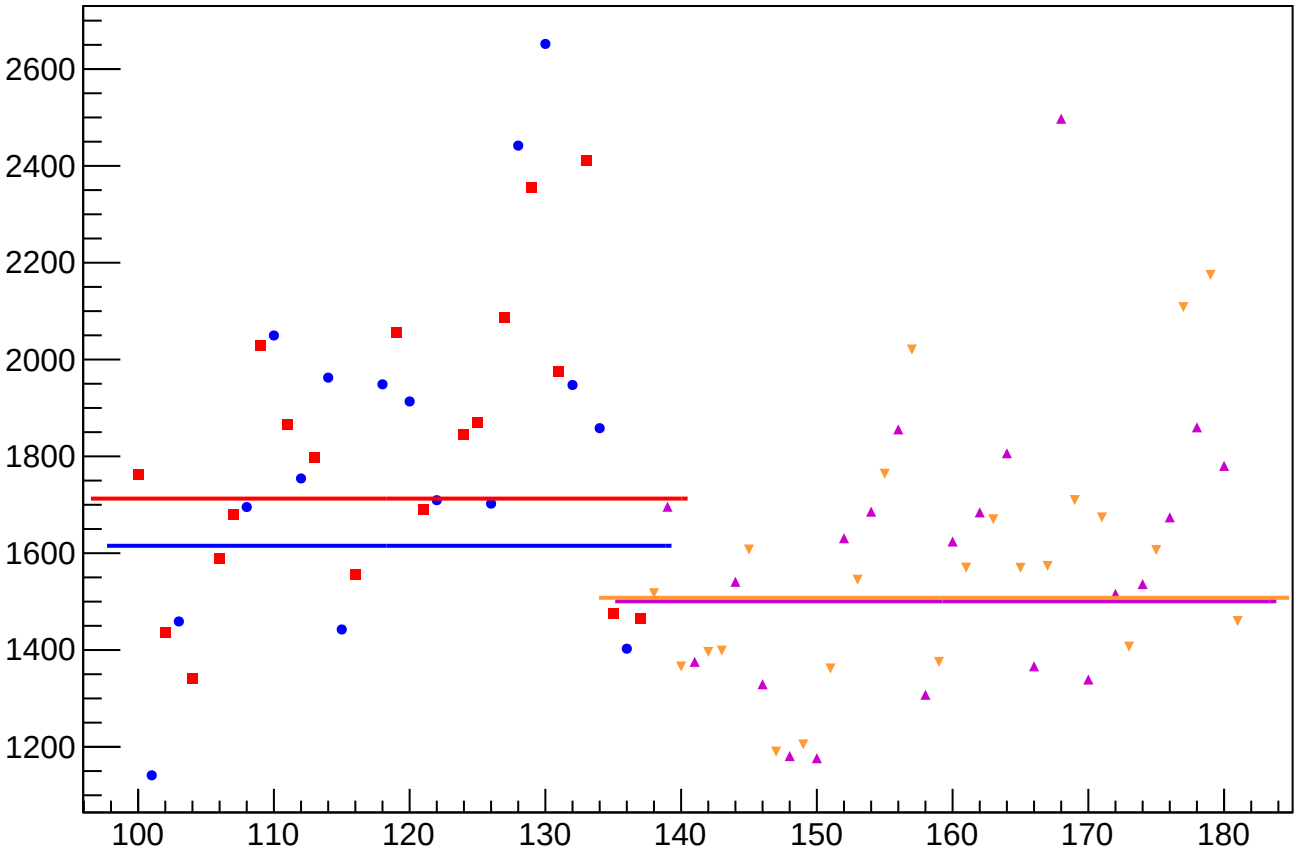
Left: 287.542+/-256.639 $\chi^2$/NDF: 43.7/43

Right: -327.398+/-443.581 $\chi^2$/NDF: 33.0/34

In: -2.078+/-316.012 $\chi^2$/NDF:34.7/36

Out: 265.583+/-312.325 $\chi^2$/NDF:43.0/41

All: 133.323+/-222.139 $\chi^2$/NDF: 78.1/78




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1507.877+/-0.253 $\chi^2$/NDF:794426.9/22

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1500.625+/-0.260 $\chi^2$/NDF:946796.6/20

Left: 1504.344+/-0.181 $\chi^2$/NDF: 1741622.5/43

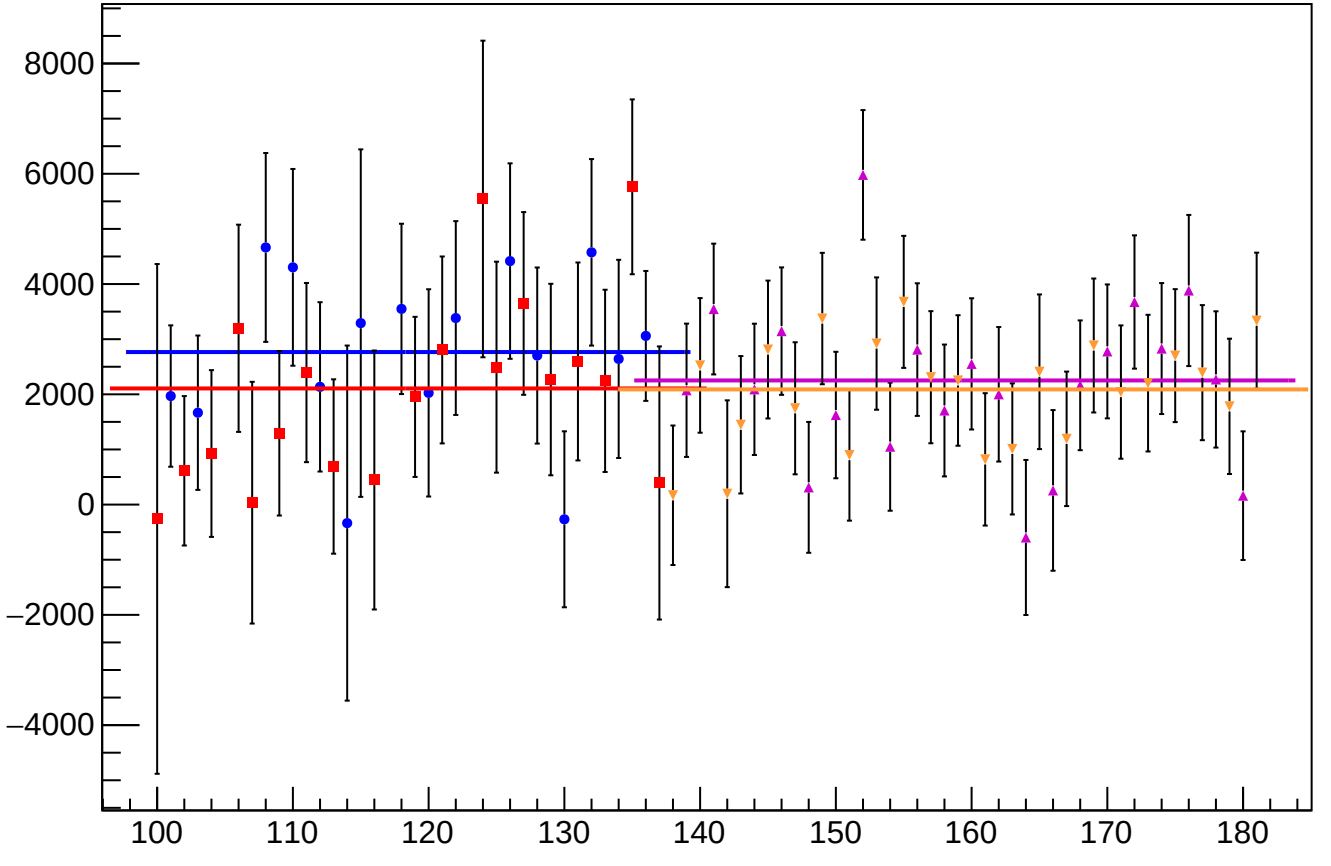
Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1530.605+/-0.223 $\chi^2$/NDF:1691287.7/36

Out: 1557.145+/-0.221 $\chi^2$/NDF:1379723.5/41

All: 1544.031+/-0.157 $\chi^2$/NDF: 3078147.7/78

# dit_asym_usr_mean vs Slug, Sign Corrected




Right In: 2766.657+/-411.563 $\chi^2$/NDF: 10.3/15

Left Out: 2088.841+/-257.261 $\chi^2$/NDF:13.2/22

Right Out: 2106.358+/-405.586 $\chi^2$/NDF: 13.4/18

Left In: 2251.744+/-264.951 $\chi^2$/NDF:28.9/20

Left: 2167.894+/-184.570 $\chi^2$/NDF: 42.3/43

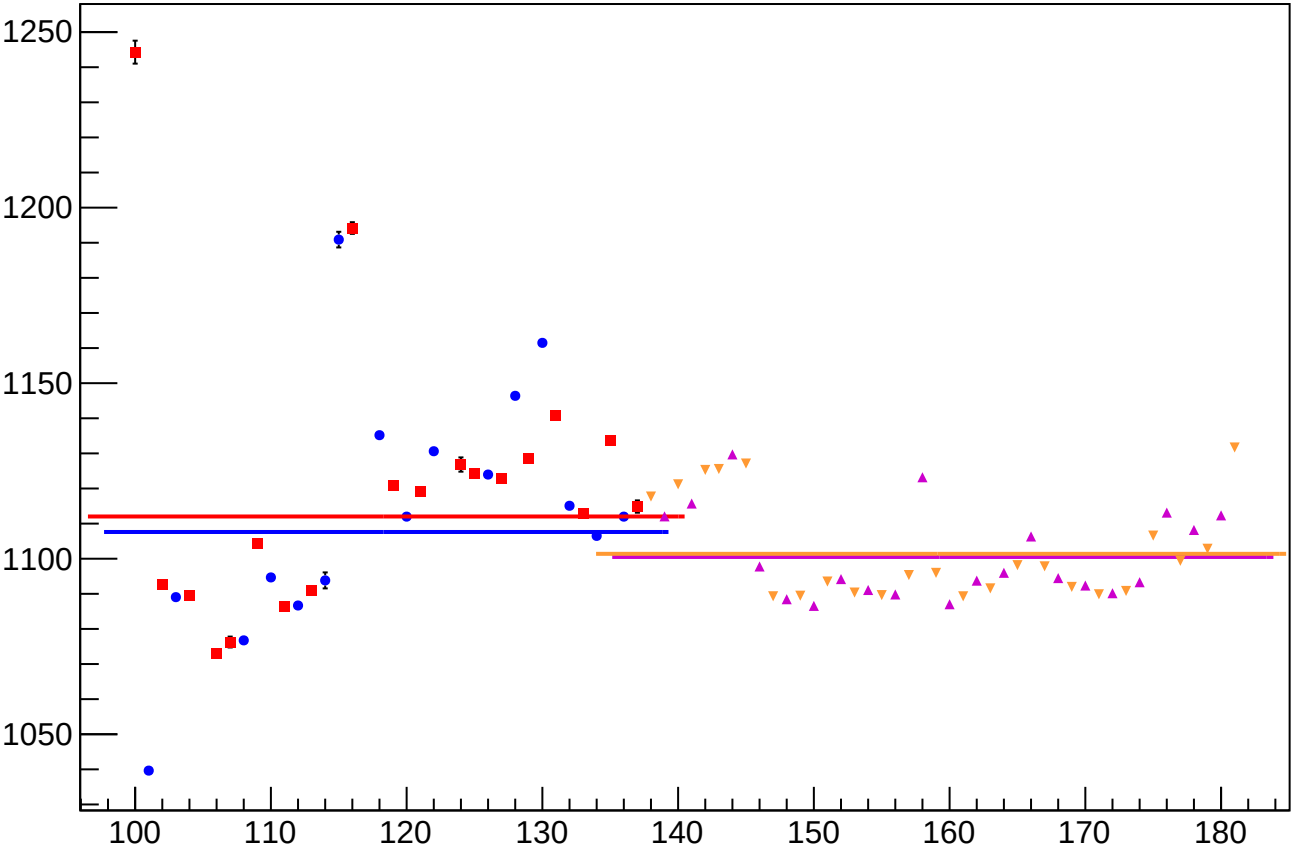
Right: 2431.678+/-288.883 $\chi^2$/NDF: 25.0/34

In: 2402.616+/-222.779 $\chi^2$/NDF:40.3/36

Out: 2093.866+/-217.244 $\chi^2$/NDF:26.5/41

All: 2244.358+/-155.535 $\chi^2$/NDF: 67.8/78

# dit_asym_usr_rms vs Slug, Sign Corrected




Right In: 1107.613+/-0.291 $\chi^2$/NDF: 13220.8/15

Left Out: 1101.391+/-0.182 $\chi^2$/NDF:5868.8/22

Right Out: 1112.029+/-0.287 $\chi^2$/NDF: 8653.5/18

Left In: 1100.502+/-0.187 $\chi^2$/NDF:4481.1/20

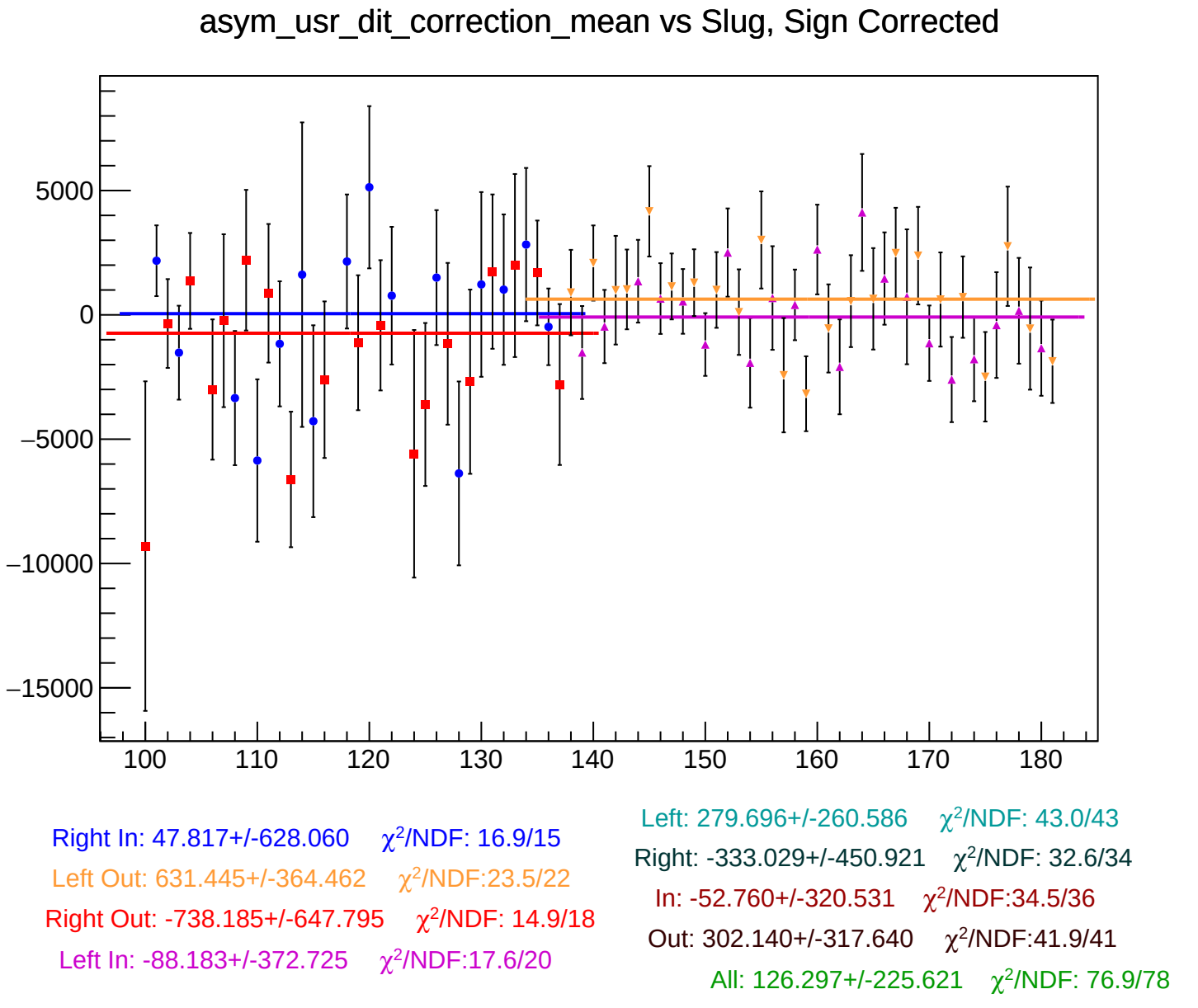
Left: 1100.959+/-0.131 $\chi^2$/NDF: 10361.4/43

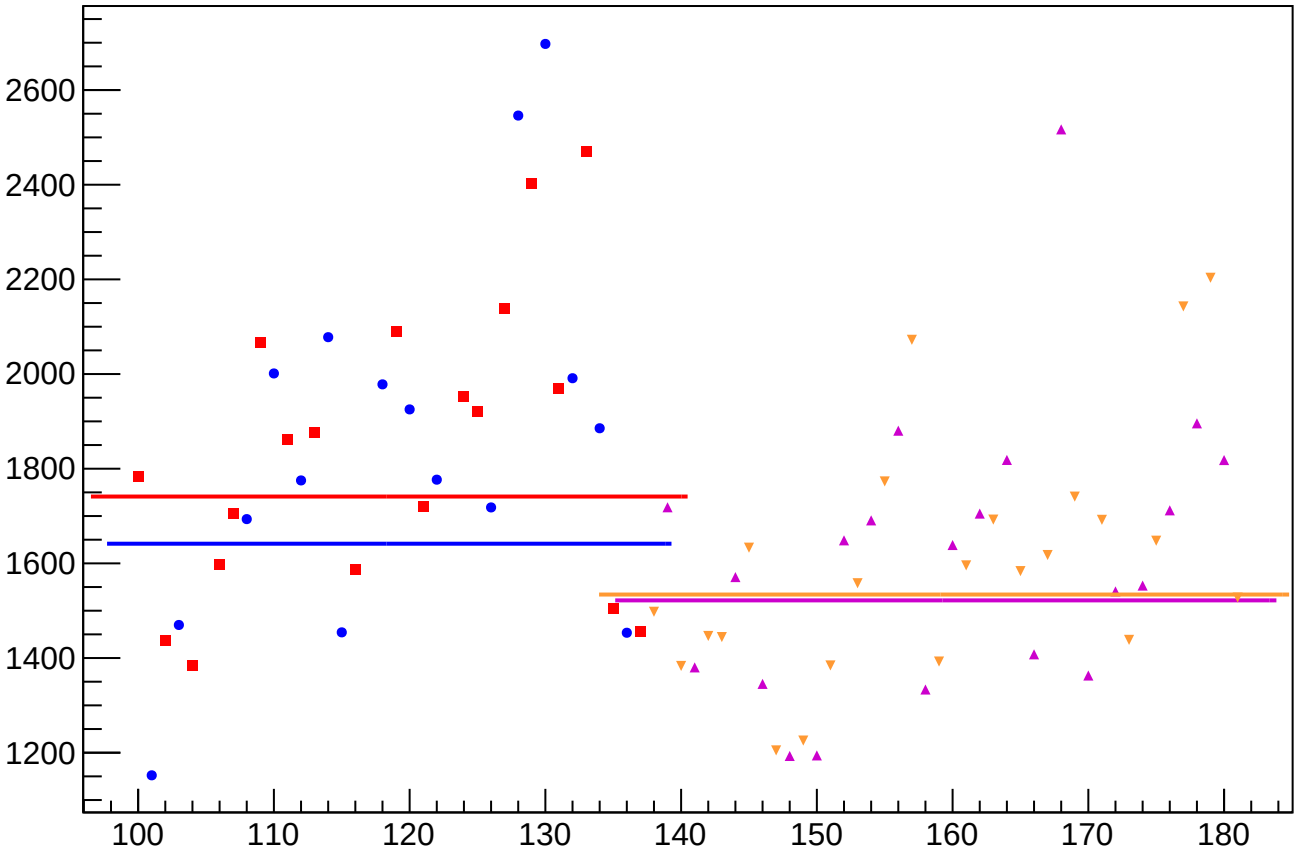
Right: 1109.854+/-0.204 $\chi^2$/NDF: 21991.1/34

In: 1102.586+/-0.158 $\chi^2$/NDF:18124.1/36

Out: 1104.443+/-0.154 $\chi^2$/NDF:15503.5/41

All: 1103.538+/-0.110 $\chi^2$/NDF: 33698.8/78


asym_usr_dit_correction_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 47.817+/-628.060 χ²/NDF: 16.9/15
Left Out: 631.445+/-364.462 χ²/NDF:23.5/22
Right Out: -738.185+/-647.795 χ²/NDF: 14.9/18
Left In: -88.183+/-372.725 χ²/NDF:17.6/20
Left: 279.696+/-260.586 χ²/NDF: 43.0/43
Right: -333.029+/-450.921 χ²/NDF: 32.6/34
In: -52.760+/-320.531 χ²/NDF:34.5/36
Out: 302.140+/-317.640 χ²/NDF:41.9/41
All: 126.297+/-225.621 χ²/NDF: 76.9/78




Right In: 1641.538+/-0.444 $\chi^2$/NDF: 701311.4/15

Left Out: 1534.145+/-0.258 $\chi^2$/NDF:792719.8/22

Right Out: 1741.200+/-0.458 $\chi^2$/NDF: 438336.6/18

Left In: 1521.803+/-0.264 $\chi^2$/NDF:941296.5/20

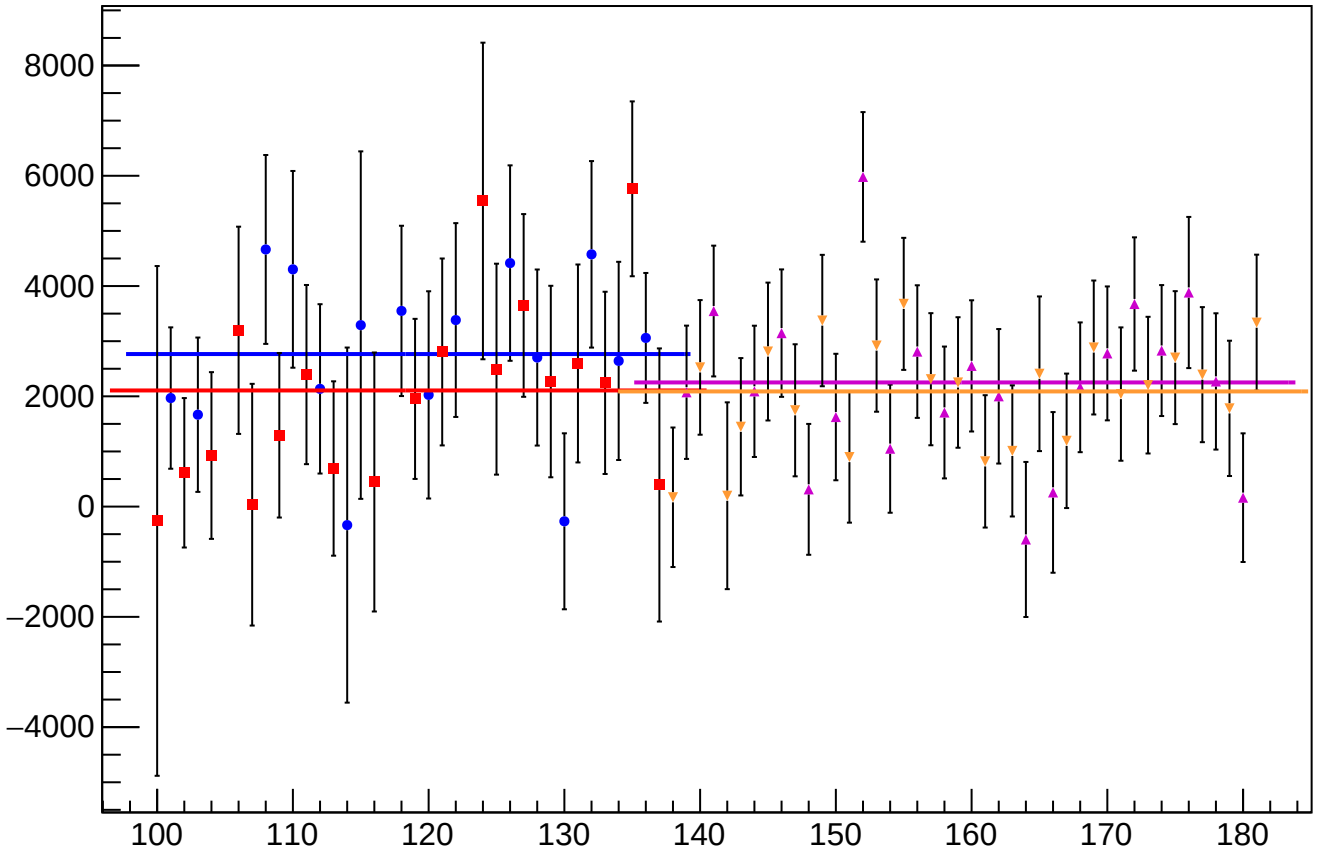
Left: 1528.112+/-0.184 $\chi^2$/NDF: 1735137.3/43

Right: 1689.828+/-0.319 $\chi^2$/NDF: 1164049.3/34

In: 1552.989+/-0.227 $\chi^2$/NDF:1696364.5/36

Out: 1583.928+/-0.225 $\chi^2$/NDF:1386256.8/41

All: 1568.598+/-0.160 $\chi^2$/NDF: 3092022.6/78




Right In: 2766.656+/-411.563 $\chi^2$/NDF: 10.3/15

Left Out: 2088.839+/-257.261 $\chi^2$/NDF:13.2/22

Right Out: 2106.360+/-405.586 $\chi^2$/NDF: 13.4/18

Left In: 2251.744+/-264.951 $\chi^2$/NDF:28.9/20

Left: 2167.893+/-184.570 $\chi^2$/NDF: 42.3/43

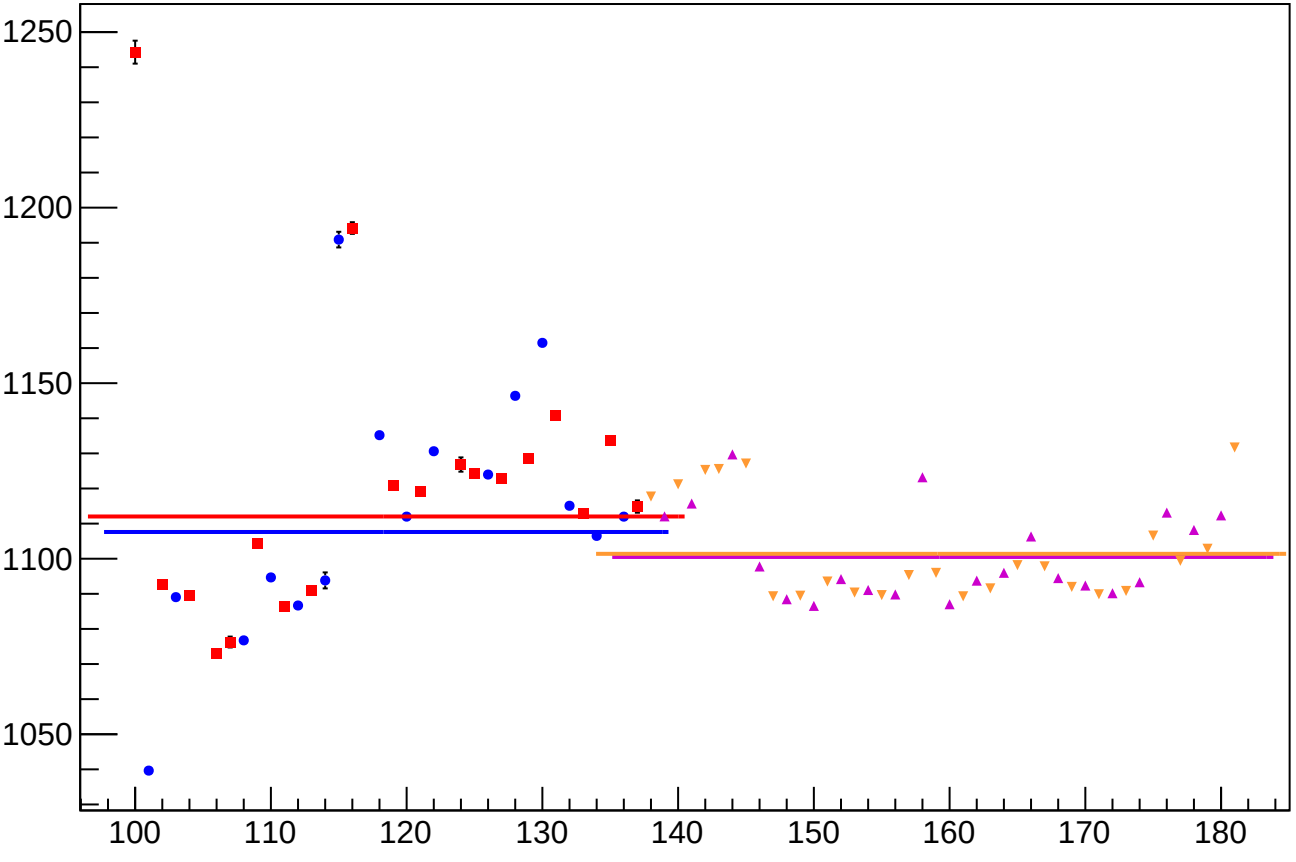
Right: 2431.678+/-288.882 $\chi^2$/NDF: 25.0/34

In: 2402.616+/-222.779 $\chi^2$/NDF:40.3/36

Out: 2093.866+/-217.244 $\chi^2$/NDF:26.5/41

All: 2244.358+/-155.535 $\chi^2$/NDF: 67.8/78

# eigen_dit_asym_usr_rms vs Slug, Sign Corrected




Right In: 1107.613+/-0.291 $\chi^2$/NDF: 13220.7/15

Left Out: 1101.391+/-0.182 $\chi^2$/NDF:5868.8/22

Right Out: 1112.029+/-0.287 $\chi^2$/NDF: 8653.5/18

Left In: 1100.502+/-0.187 $\chi^2$/NDF:4481.1/20

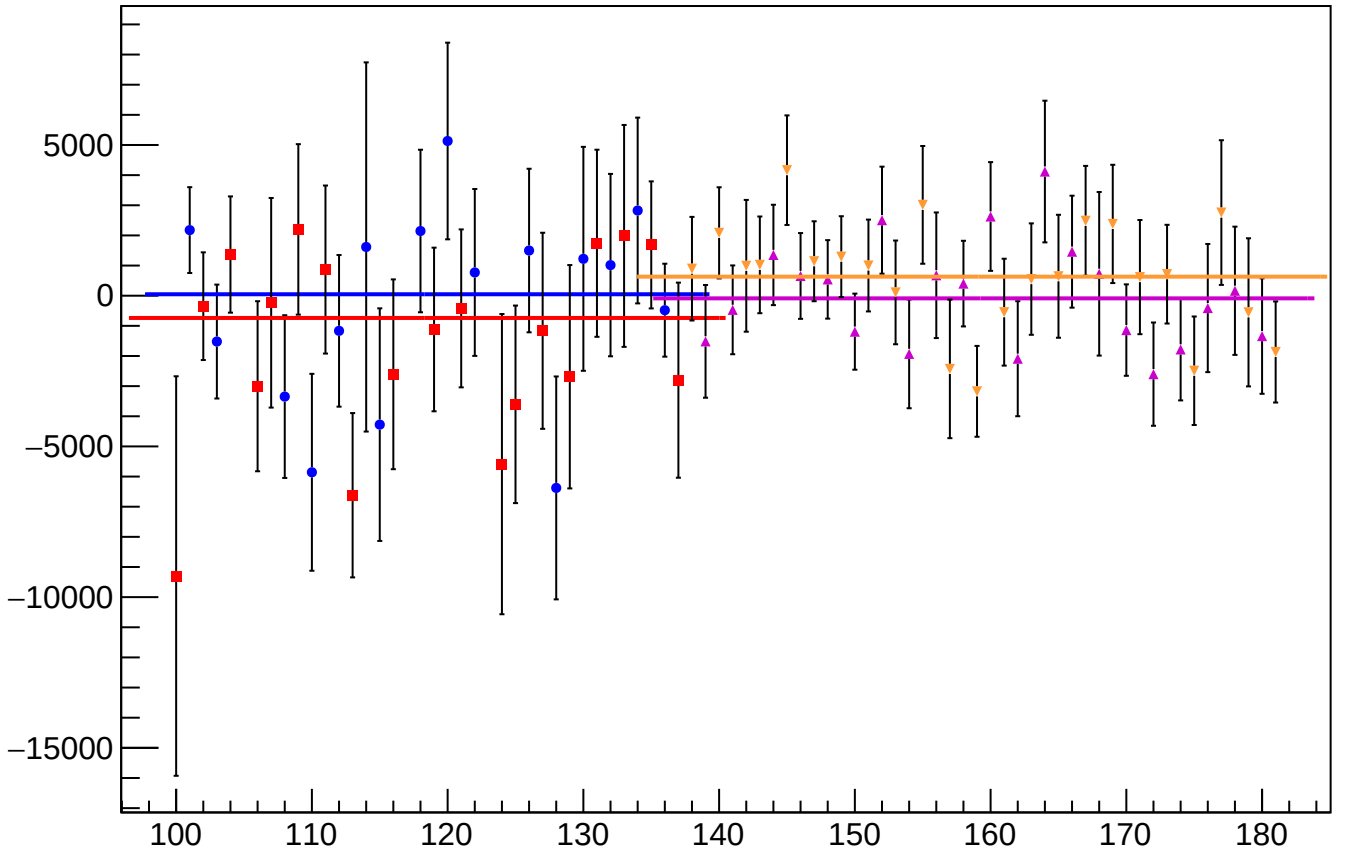
Left: 1100.959+/-0.131 $\chi^2$/NDF: 10361.4/43

Right: 1109.853+/-0.204 $\chi^2$/NDF: 21991.0/34

In: 1102.586+/-0.158 $\chi^2$/NDF:18123.9/36

Out: 1104.443+/-0.154 $\chi^2$/NDF:15503.5/41

All: 1103.538+/-0.110 $\chi^2$/NDF: 33698.6/78




Right In: 47.813+/-628.059 $\chi^2$/NDF: 16.9/15

Left Out: 631.444+/-364.463 $\chi^2$/NDF:23.5/22

Right Out: -738.188+/-647.795 $\chi^2$/NDF: 14.9/18

Left In: -88.182+/-372.726 $\chi^2$/NDF:17.6/20

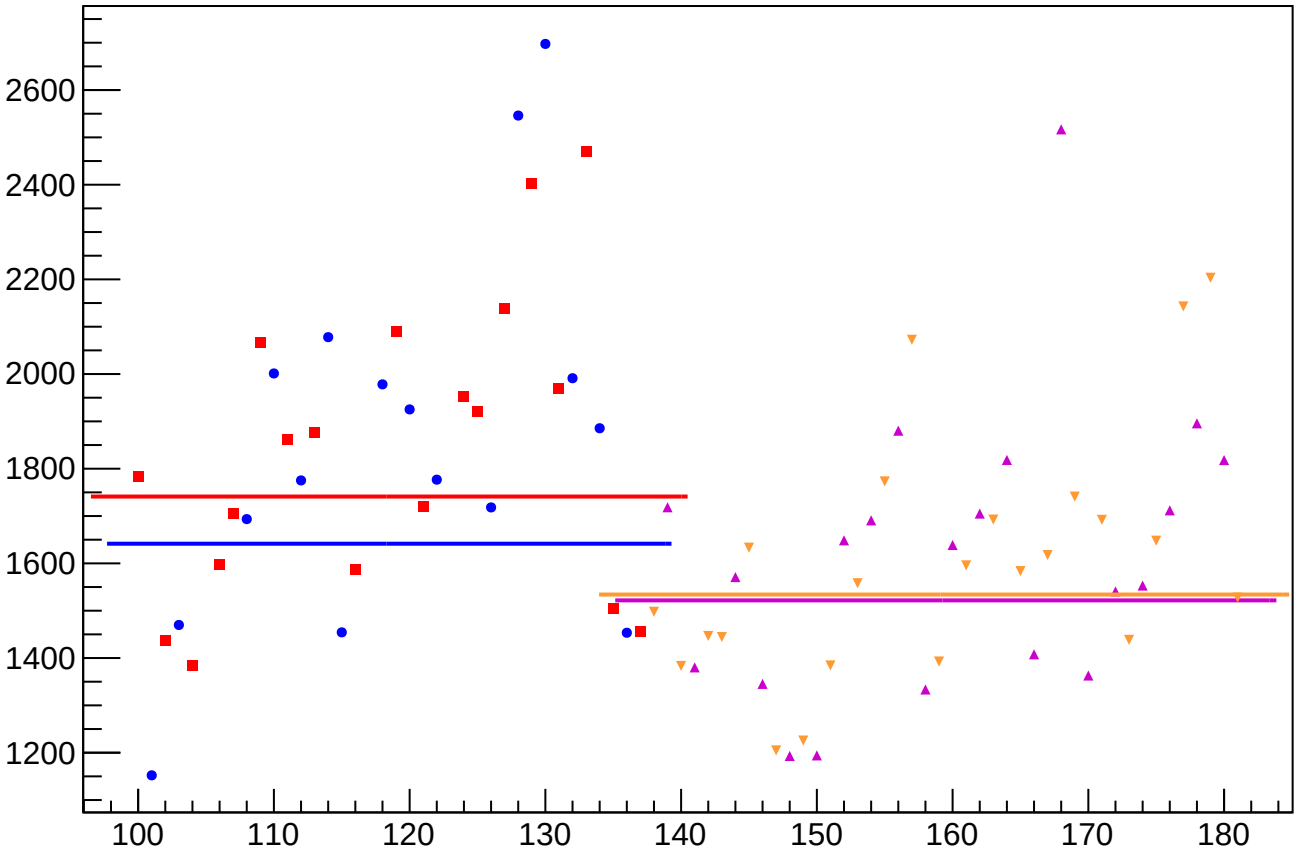
Left: 279.696+/-260.587 $\chi^2$/NDF: 43.0/43

Right: -333.032+/-450.921 $\chi^2$/NDF: 32.6/34

In: -52.761+/-320.532 $\chi^2$/NDF:34.5/36

Out: 302.136+/-317.641 $\chi^2$/NDF:41.8/41

All: 126.295+/-225.621 $\chi^2$/NDF: 76.9/78




Right In: 1641.536+/-0.444 $\chi^2$/NDF: 701299.1/15

Left Out: 1534.149+/-0.258 $\chi^2$/NDF:792723.7/22

Right Out: 1741.199+/-0.458 $\chi^2$/NDF: 438324.1/18

Left In: 1521.807+/-0.264 $\chi^2$/NDF:941301.9/20

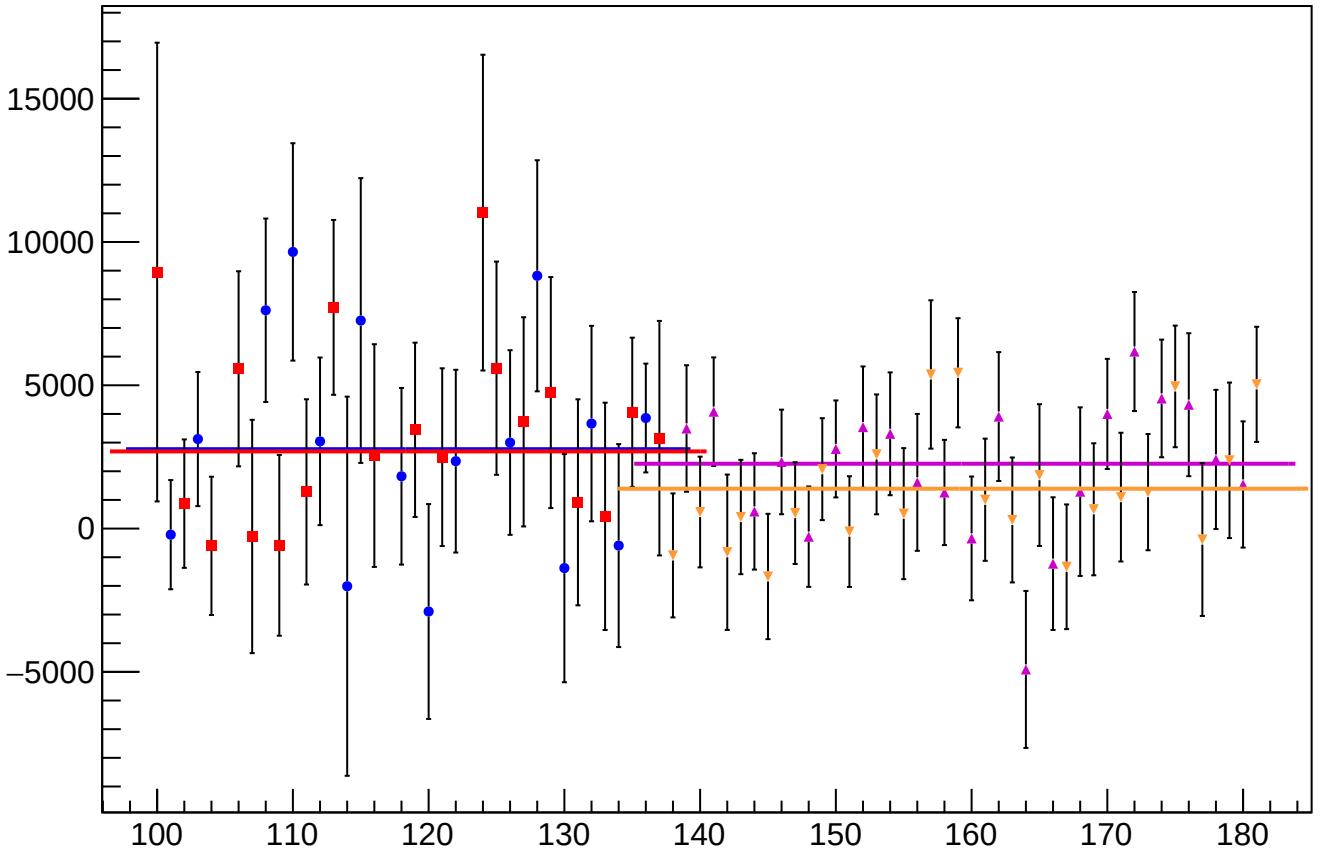
Left: 1528.116+/-0.184 $\chi^2$/NDF: 1735146.5/43

Right: 1689.826+/-0.319 $\chi^2$/NDF: 1164025.0/34

In: 1552.991+/-0.227 $\chi^2$/NDF:1696352.3/36

Out: 1583.931+/-0.225 $\chi^2$/NDF:1386240.7/41

All: 1568.601+/-0.160 $\chi^2$/NDF: 3091994.5/78




Right In: 2769.952+/-757.109 $\chi^2$/NDF: 16.4/15

Left Out: 1391.420+/-446.926 $\chi^2$/NDF:21.2/22

Right Out: 2692.625+/-765.754 $\chi^2$/NDF: 12.5/18

Left In: 2262.331+/-459.369 $\chi^2$/NDF:22.7/20

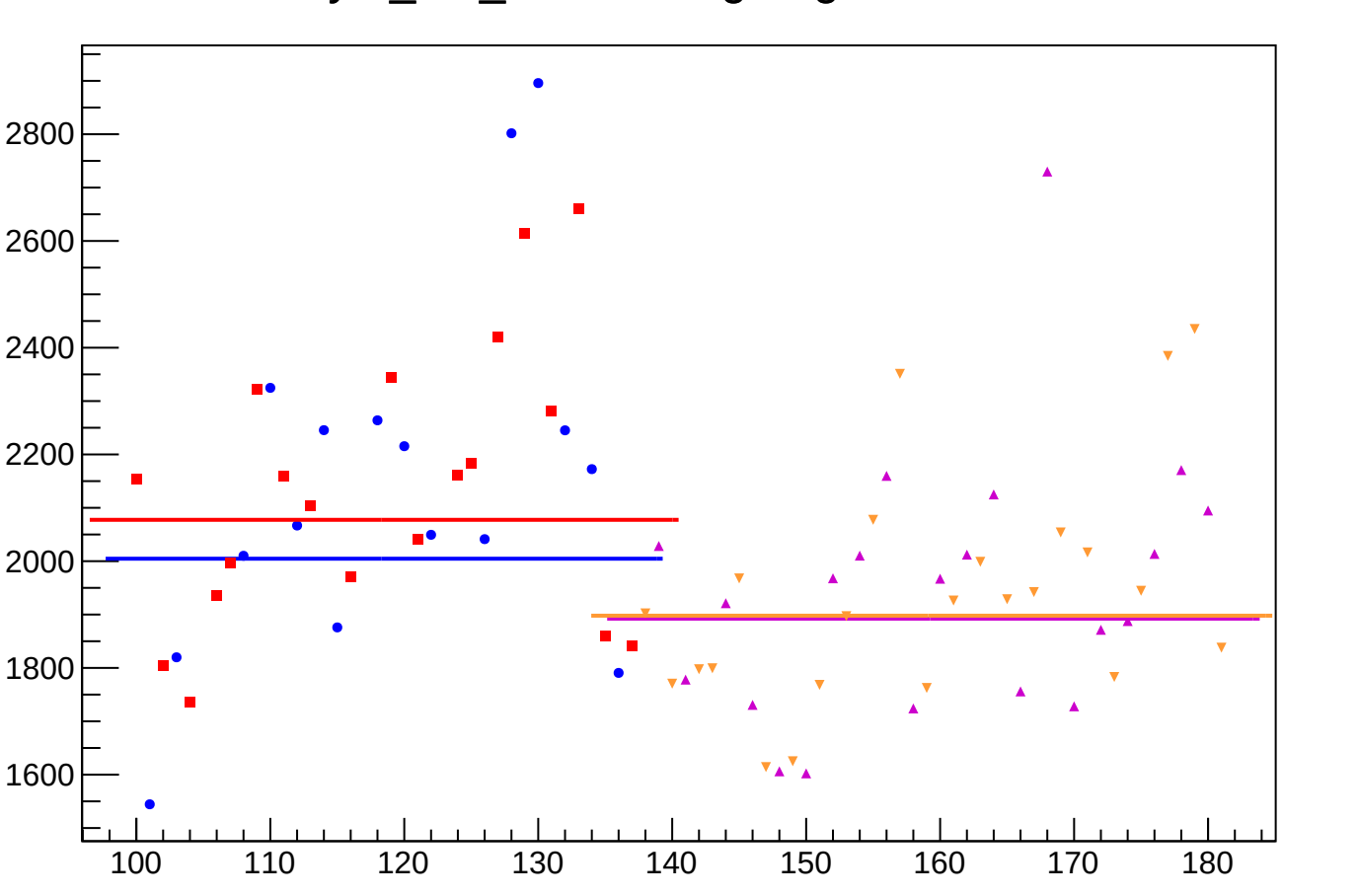
Left: 1814.920+/-320.333 $\chi^2$/NDF: 45.8/43

Right: 2731.727+/-538.387 $\chi^2$/NDF: 29.0/34

In: 2398.921+/-392.733 $\chi^2$/NDF:39.5/36

Out: 1722.038+/-385.993 $\chi^2$/NDF:35.9/41

All: 2054.622+/-275.290 $\chi^2$/NDF: 76.9/78




Right In: 2004.635+/-0.535 $\chi^2$/NDF: 387567.3/15

Left Out: 1897.885+/-0.316 $\chi^2$/NDF:384037.6/22

Right Out: 2077.500+/-0.541 $\chi^2$/NDF: 230482.0/18

Left In: 1892.331+/-0.325 $\chi^2$/NDF:447941.7/20

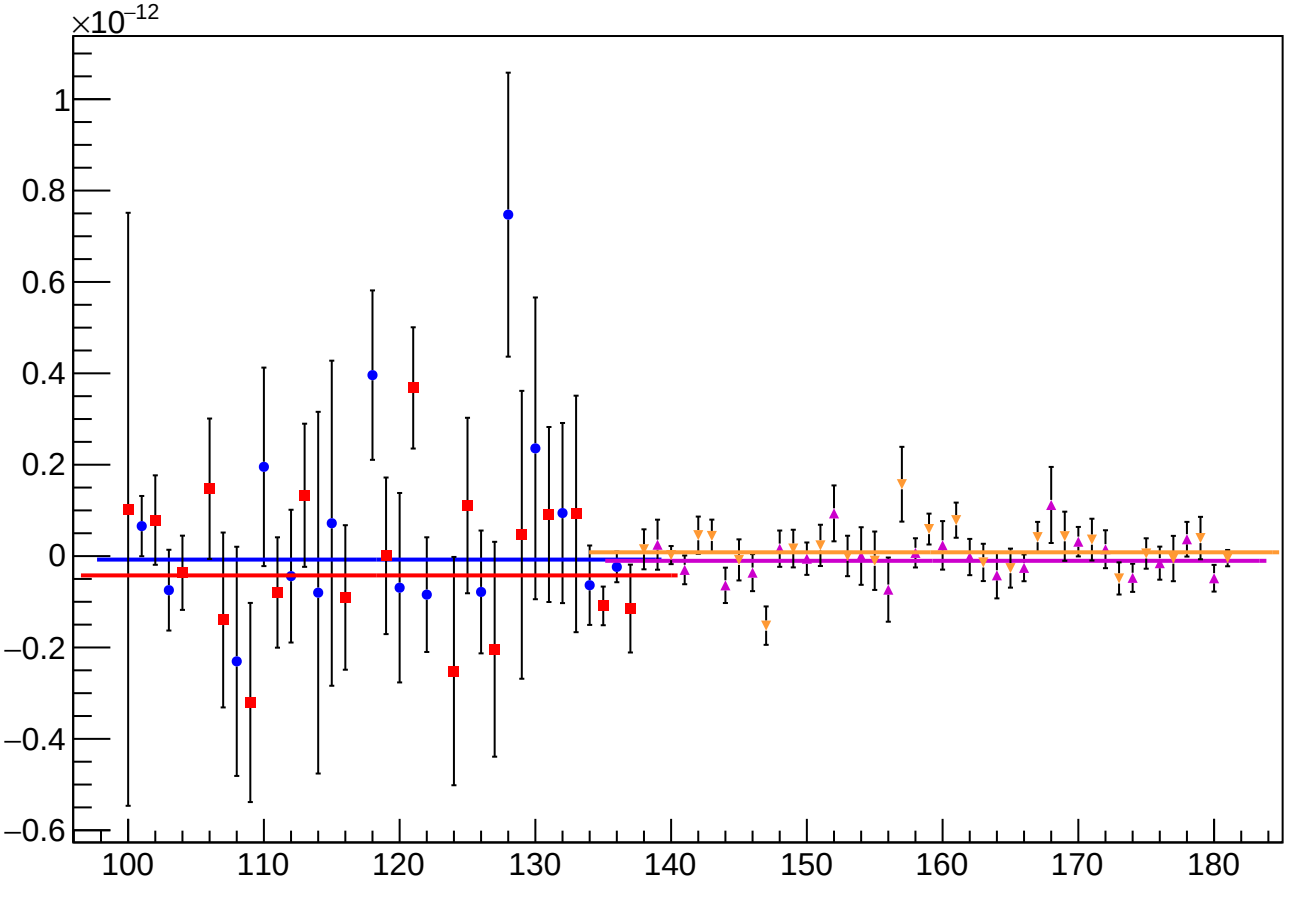
Left: 1895.184+/-0.227 $\chi^2$/NDF: 832129.5/43

Right: 2040.654+/-0.381 $\chi^2$/NDF: 627206.5/34

In: 1922.549+/-0.278 $\chi^2$/NDF:867673.6/36

Out: 1943.523+/-0.273 $\chi^2$/NDF:696597.4/41

All: 1933.218+/-0.195 $\chi^2$/NDF: 1567172.4/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:32.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.7/20

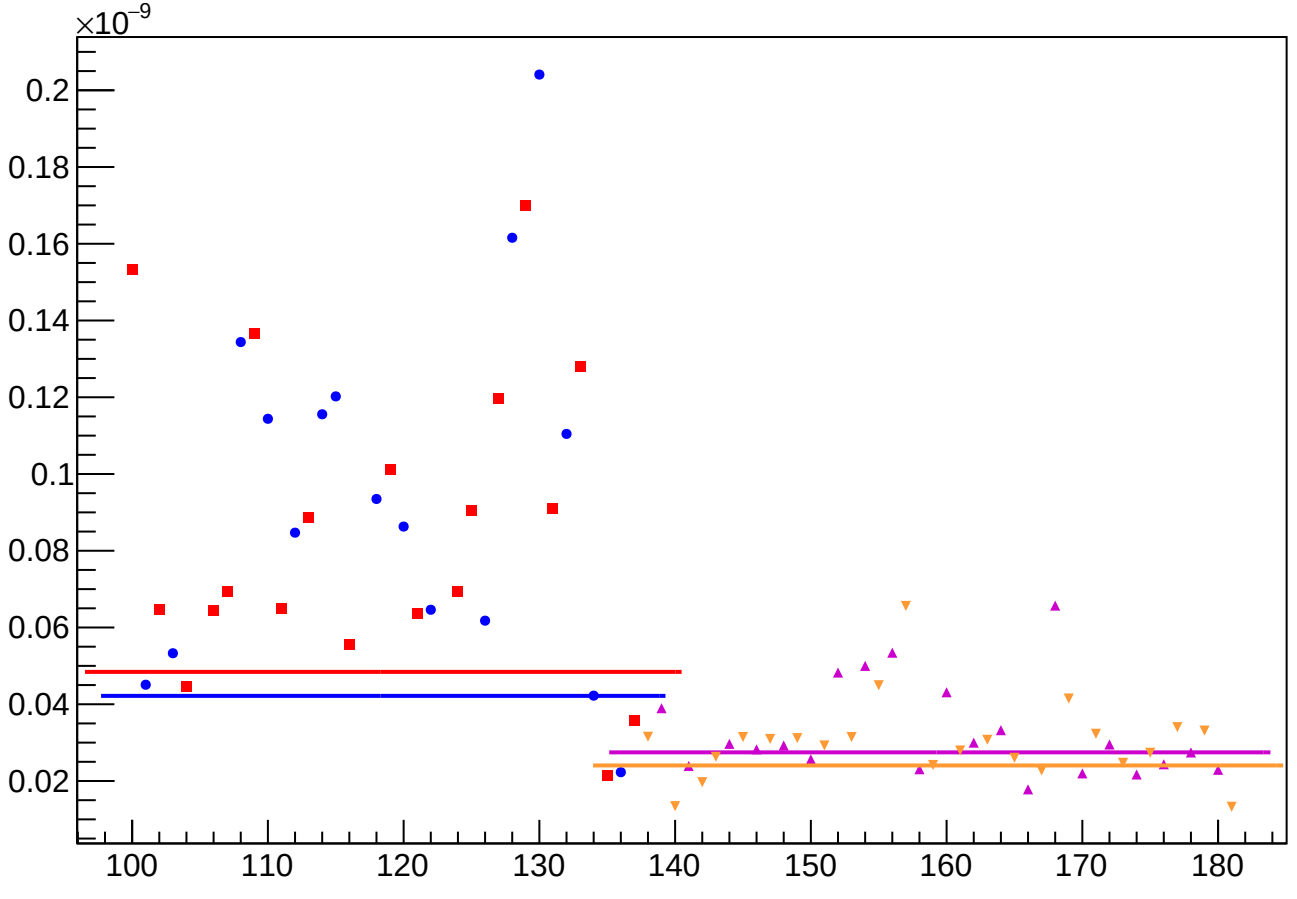
Left: 0.000+/-0.000 $\chi^2$/NDF: 52.7/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:34.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:57.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 93.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2933545.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2907351.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2604483.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1971893.5/20

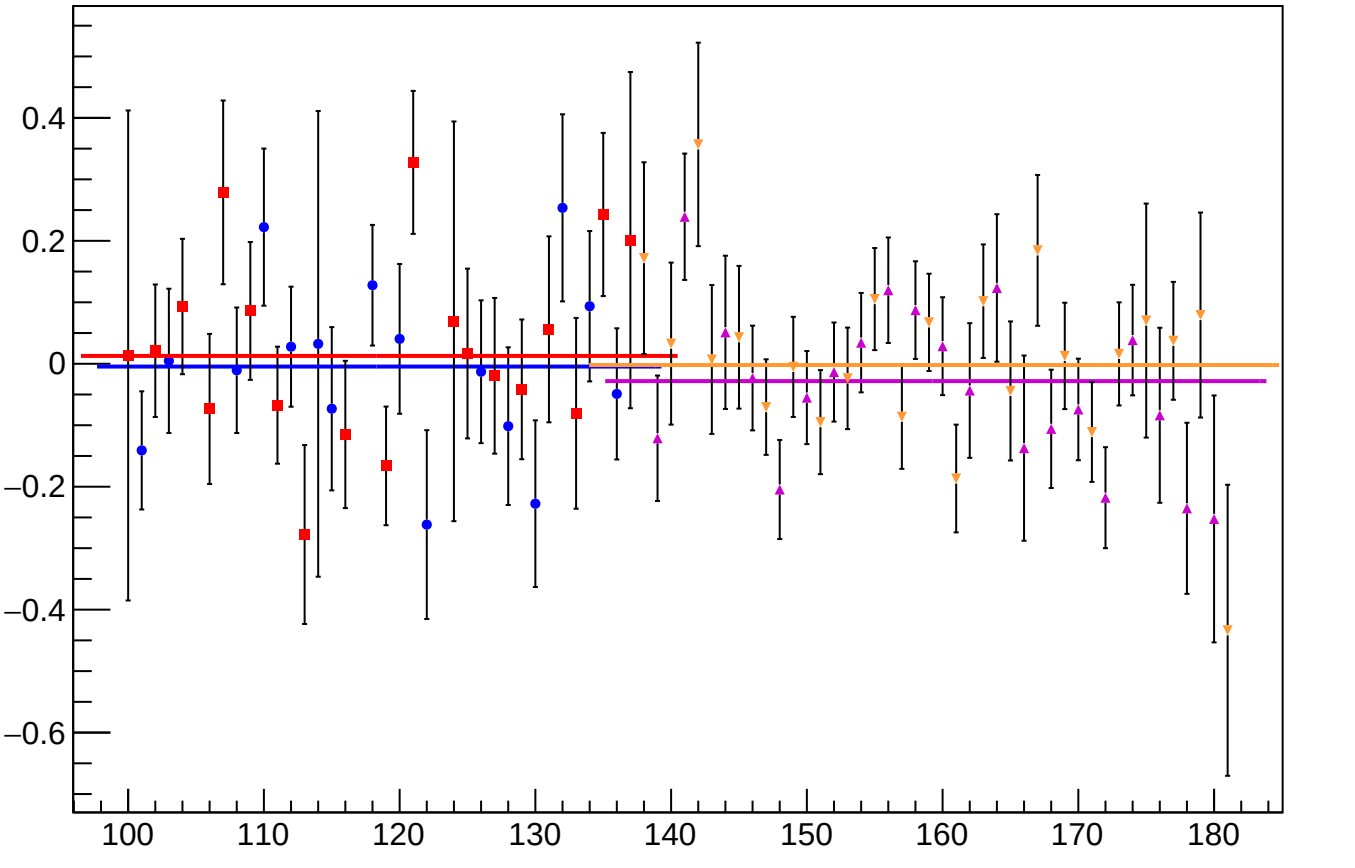
Left: 0.000+/-0.000 $\chi^2$/NDF: 5058367.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5597279.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:5559038.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7023725.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 12765378.7/78




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: -0.002+/-0.021 $\chi^2$/NDF:25.6/22

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: -0.028+/-0.021 $\chi^2$/NDF:31.7/20

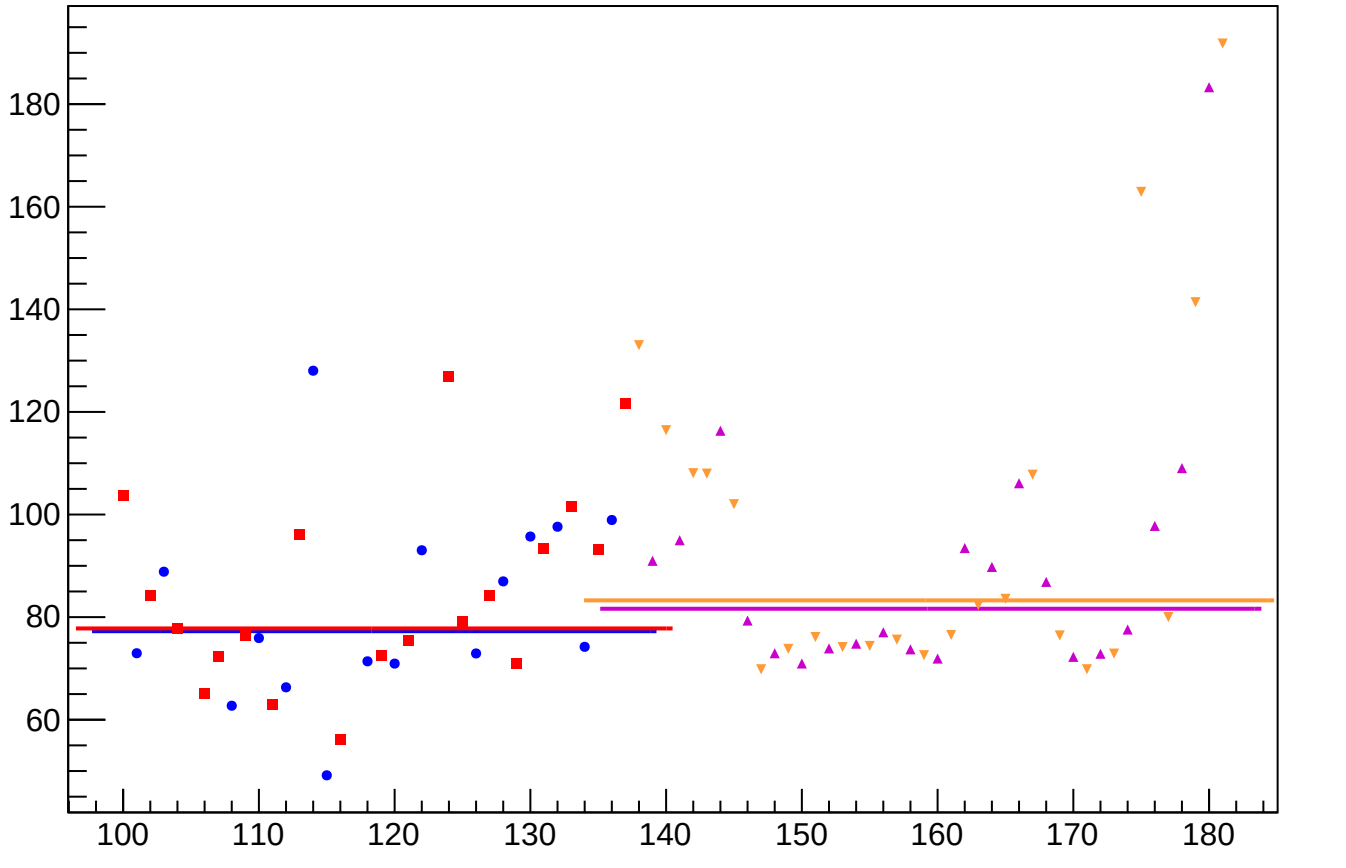
Left: -0.015+/-0.015 $\chi^2$/NDF: 58.1/43

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: -0.021+/-0.017 $\chi^2$/NDF:49.5/36

Out: 0.003+/-0.017 $\chi^2$/NDF:51.2/41

All: -0.009+/-0.012 $\chi^2$/NDF: 101.6/78




Right In: 77.259+/-0.021 $\chi^2$/NDF: 419290.2/15

Left Out: 83.267+/-0.015 $\chi^2$/NDF:1916901.2/22

Right Out: 77.796+/-0.021 $\chi^2$/NDF: 396477.1/18

Left In: 81.634+/-0.015 $\chi^2$/NDF:1117405.3/20

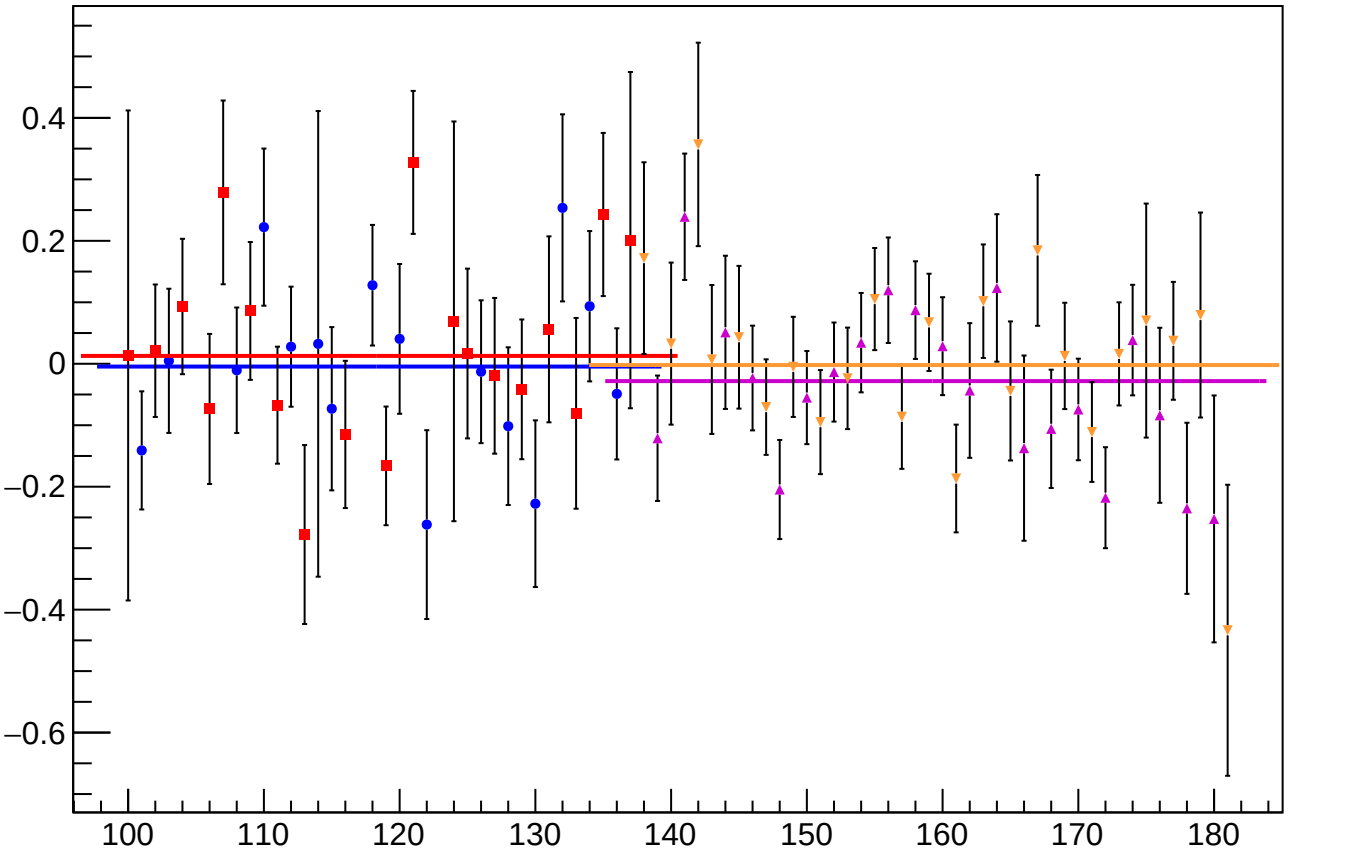
Left: 82.451+/-0.010 $\chi^2$/NDF: 3040522.7/43

Right: 77.530+/-0.015 $\chi^2$/NDF: 816090.7/34

In: 80.224+/-0.012 $\chi^2$/NDF:1565431.2/36

Out: 81.480+/-0.012 $\chi^2$/NDF:2359001.3/41

All: 80.855+/-0.009 $\chi^2$/NDF: 3929877.7/78


asym_usr_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.4
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0
−0.2
−0.4
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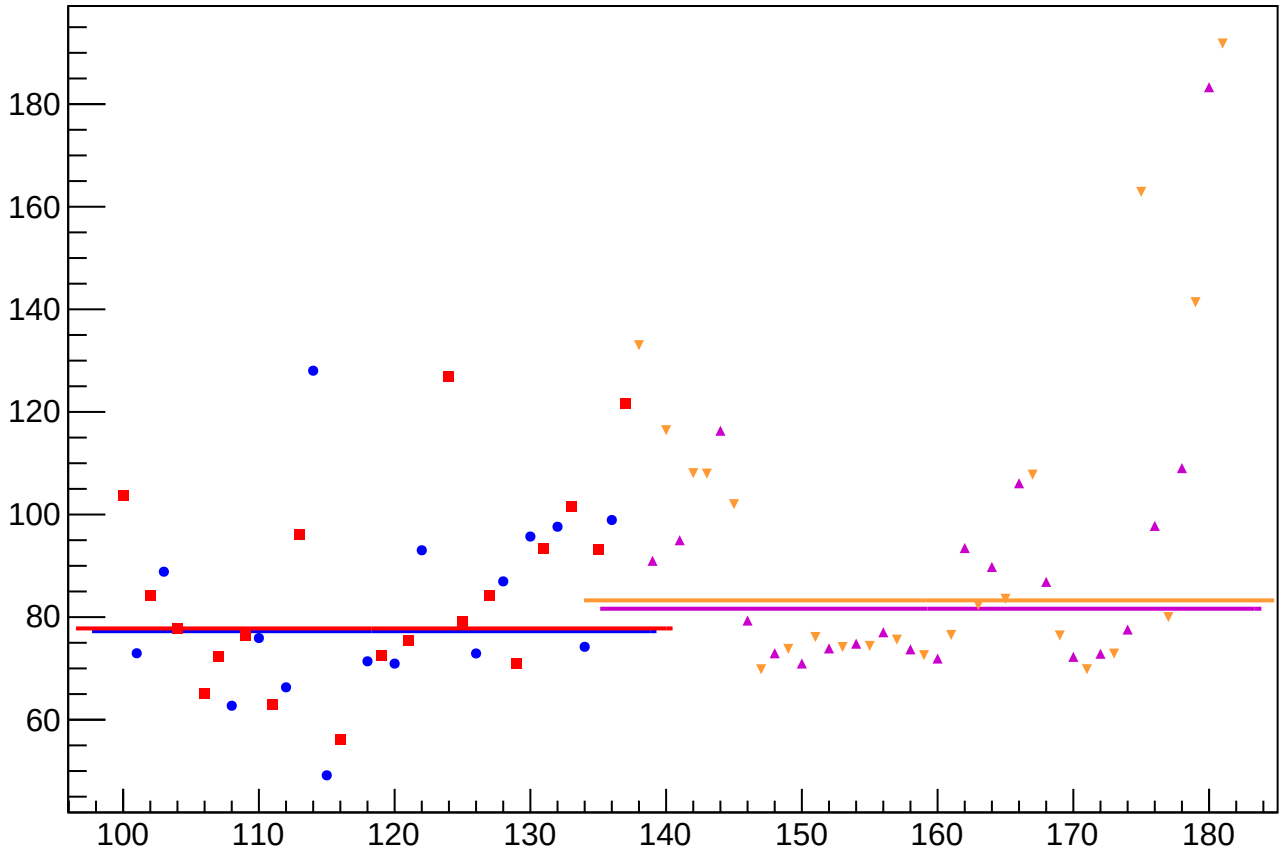
170
180
Right In: -0.005+/-0.030 χ²/NDF: 17.3/15
Left Out: -0.002+/-0.021 χ²/NDF:25.6/22
Right Out: 0.013+/-0.030 χ²/NDF: 25.5/18
Left In: -0.028+/-0.021 χ²/NDF:31.7/20
Left: -0.015+/-0.015 χ²/NDF: 58.1/43
Right: 0.004+/-0.021 χ²/NDF: 42.9/34
In: -0.021+/-0.017 χ²/NDF:49.5/36
Out: 0.003+/-0.017 χ²/NDF:51.2/41
All: -0.009+/-0.012 χ²/NDF: 101.6/78




Right In: 77.259+/-0.021 $\chi^2$/NDF: 419290.2/15

Left Out: 83.267+/-0.015 $\chi^2$/NDF:1916901.2/22

Right Out: 77.796+/-0.021 $\chi^2$/NDF: 396477.1/18

Left In: 81.634+/-0.015 $\chi^2$/NDF:1117405.3/20

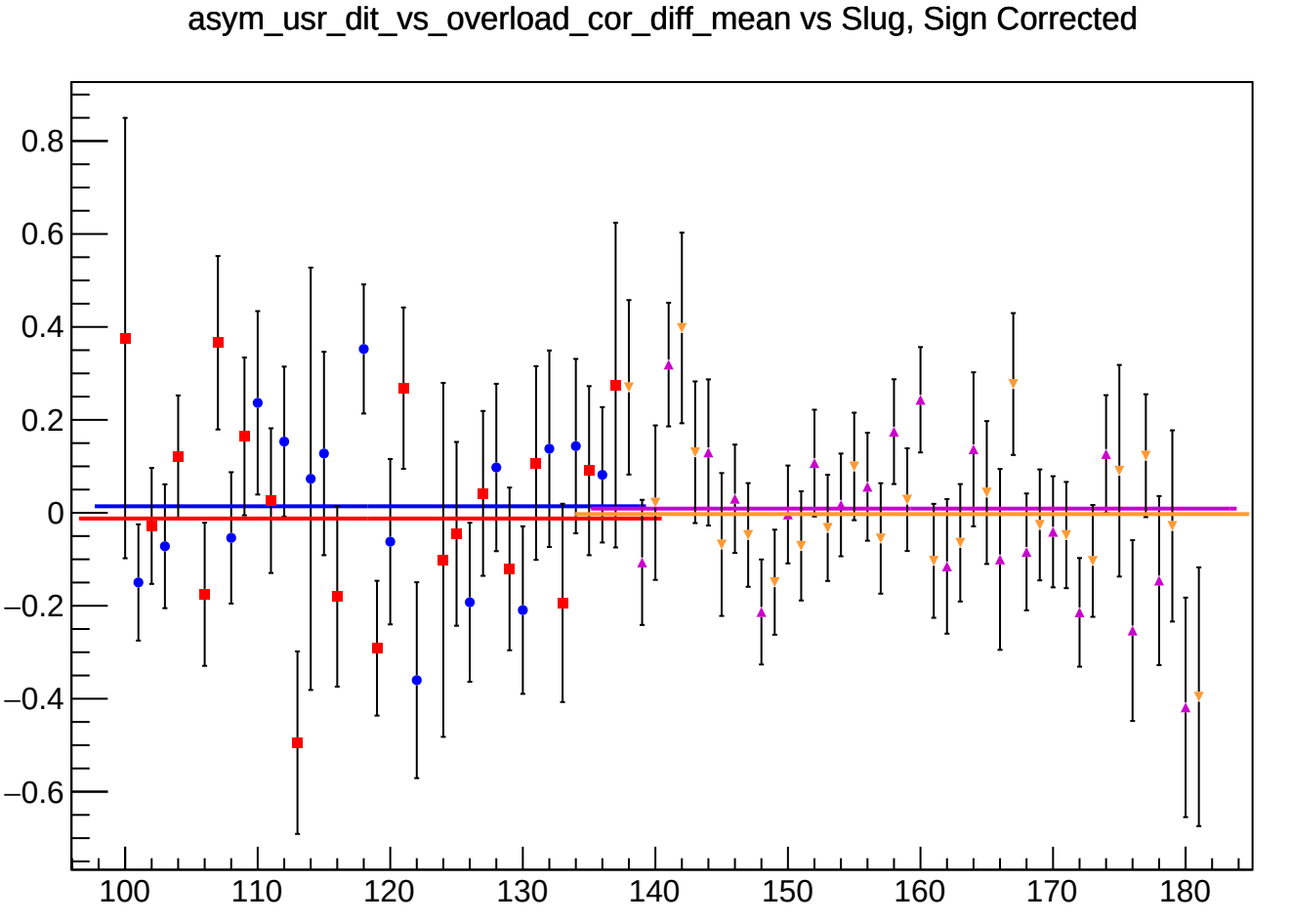
Left: 82.451+/-0.010 $\chi^2$/NDF: 3040522.7/43

Right: 77.530+/-0.015 $\chi^2$/NDF: 816090.7/34

In: 80.224+/-0.012 $\chi^2$/NDF:1565431.2/36

Out: 81.480+/-0.012 $\chi^2$/NDF:2359001.3/41

All: 80.855+/-0.009 $\chi^2$/NDF: 3929877.7/78


asym_usr_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected
0.8
0.6
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−0.2
−0.4
−0.6
100
110
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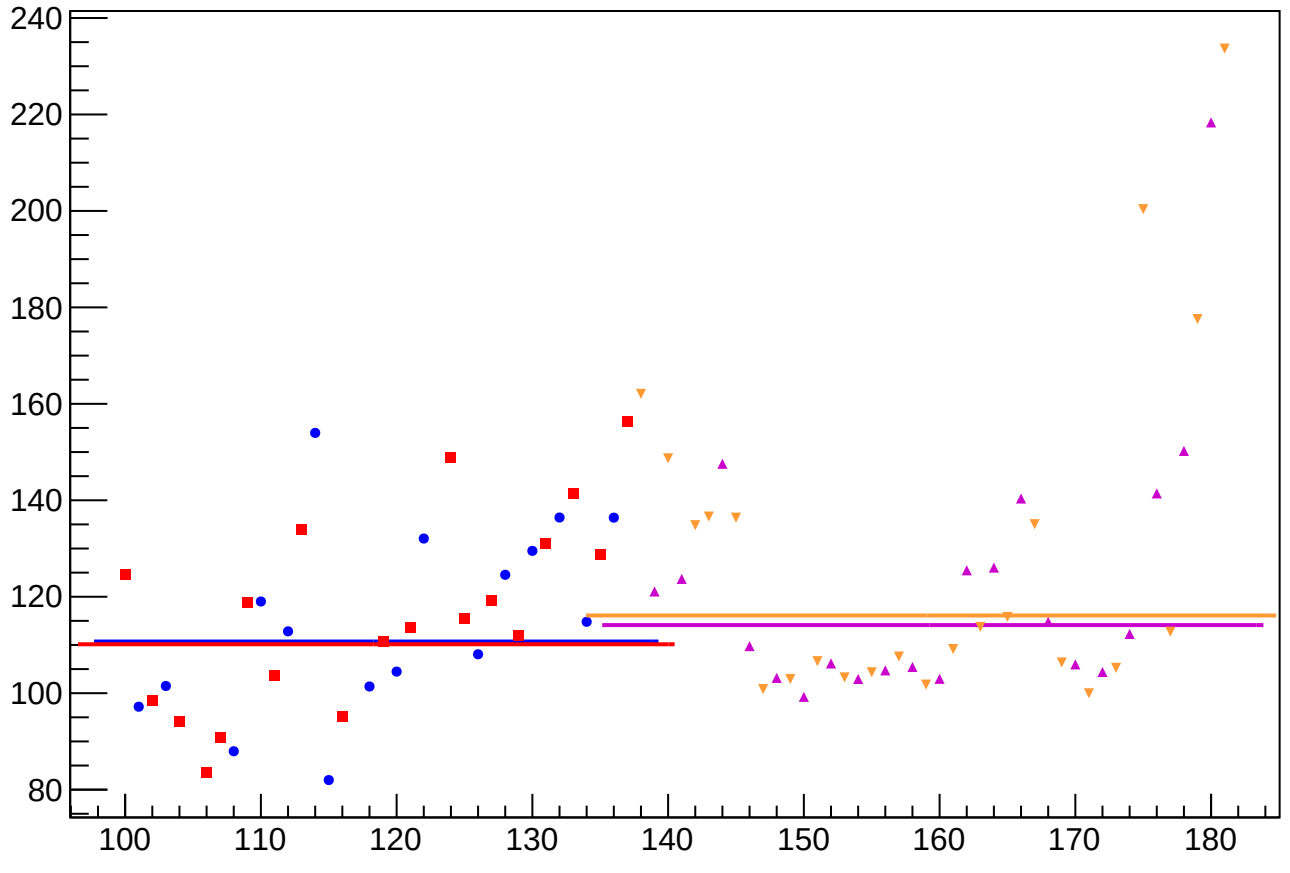
160
170
180
Right In: 0.014+/-0.042 χ²/NDF: 18.2/15
Left Out: -0.003+/-0.028 χ²/NDF:18.5/22
Right Out: -0.012+/-0.041 χ²/NDF: 23.8/18
Left In: 0.009+/-0.028 χ²/NDF:30.7/20
Left: 0.003+/-0.020 χ²/NDF: 49.3/43
Right: 0.001+/-0.030 χ²/NDF: 42.1/34
In: 0.011+/-0.024 χ²/NDF:48.9/36
Out: -0.006+/-0.023 χ²/NDF:42.3/41
All: 0.002+/-0.017 χ²/NDF: 91.5/78




Right In: 110.714+/-0.030 $\chi^2$/NDF: 299972.8/15

Left Out: 116.117+/-0.020 $\chi^2$/NDF:1369488.5/22

Right Out: 110.145+/-0.029 $\chi^2$/NDF: 326726.5/18

Left In: 114.121+/-0.020 $\chi^2$/NDF:832537.4/20

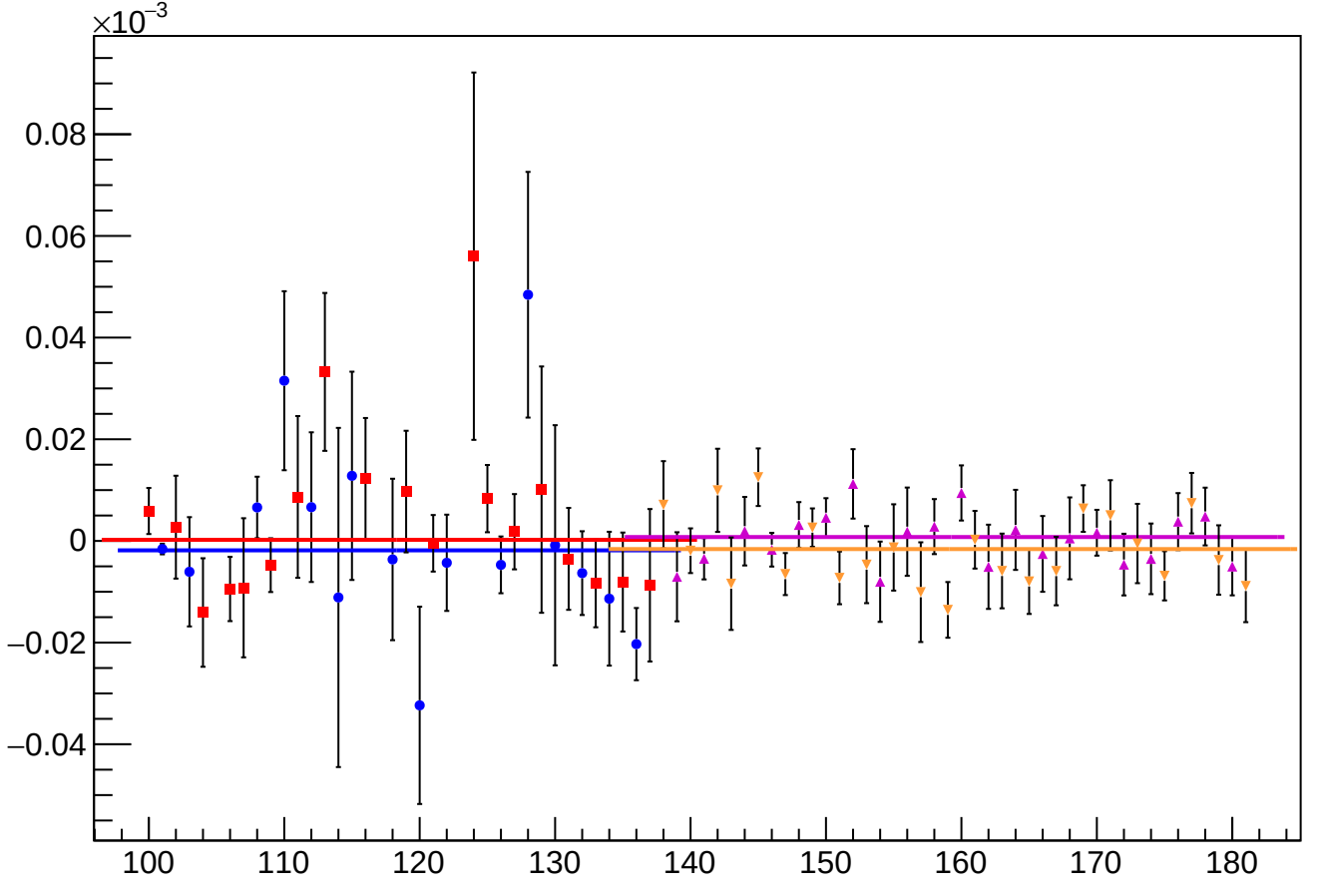
Left: 115.125+/-0.014 $\chi^2$/NDF: 2206983.9/43

Right: 110.423+/-0.021 $\chi^2$/NDF: 626885.1/34

In: 113.059+/-0.017 $\chi^2$/NDF:1141449.6/36

Out: 114.213+/-0.016 $\chi^2$/NDF:1724687.4/41

All: 113.643+/-0.012 $\chi^2$/NDF: 2868556.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:29.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.8/20

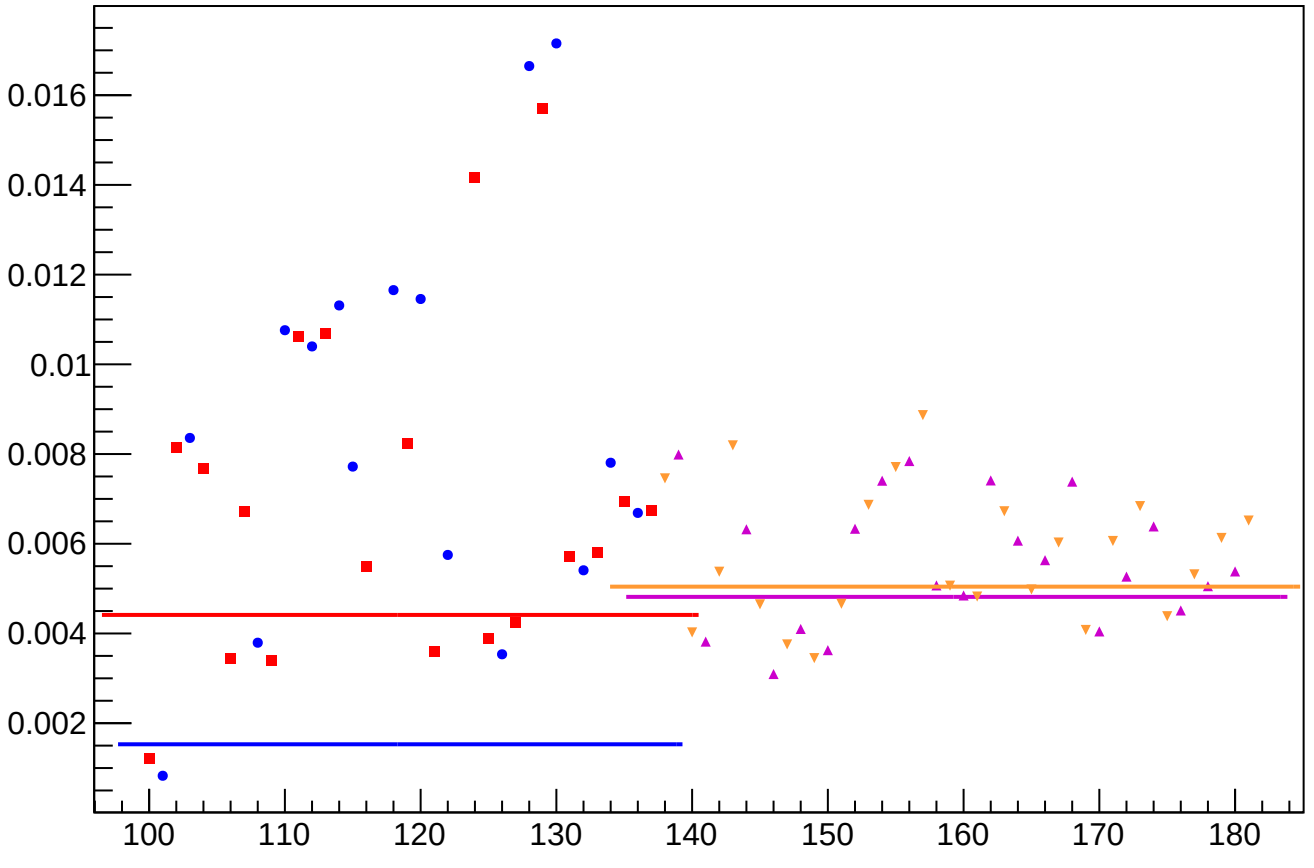
Left: -0.000+/-0.000 $\chi^2$/NDF: 45.5/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:38.1/36

Out: -0.000+/-0.000 $\chi^2$/NDF:50.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 88.4/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 9222940.9/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:2262875.6/22

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 3388069.5/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:2501303.6/20

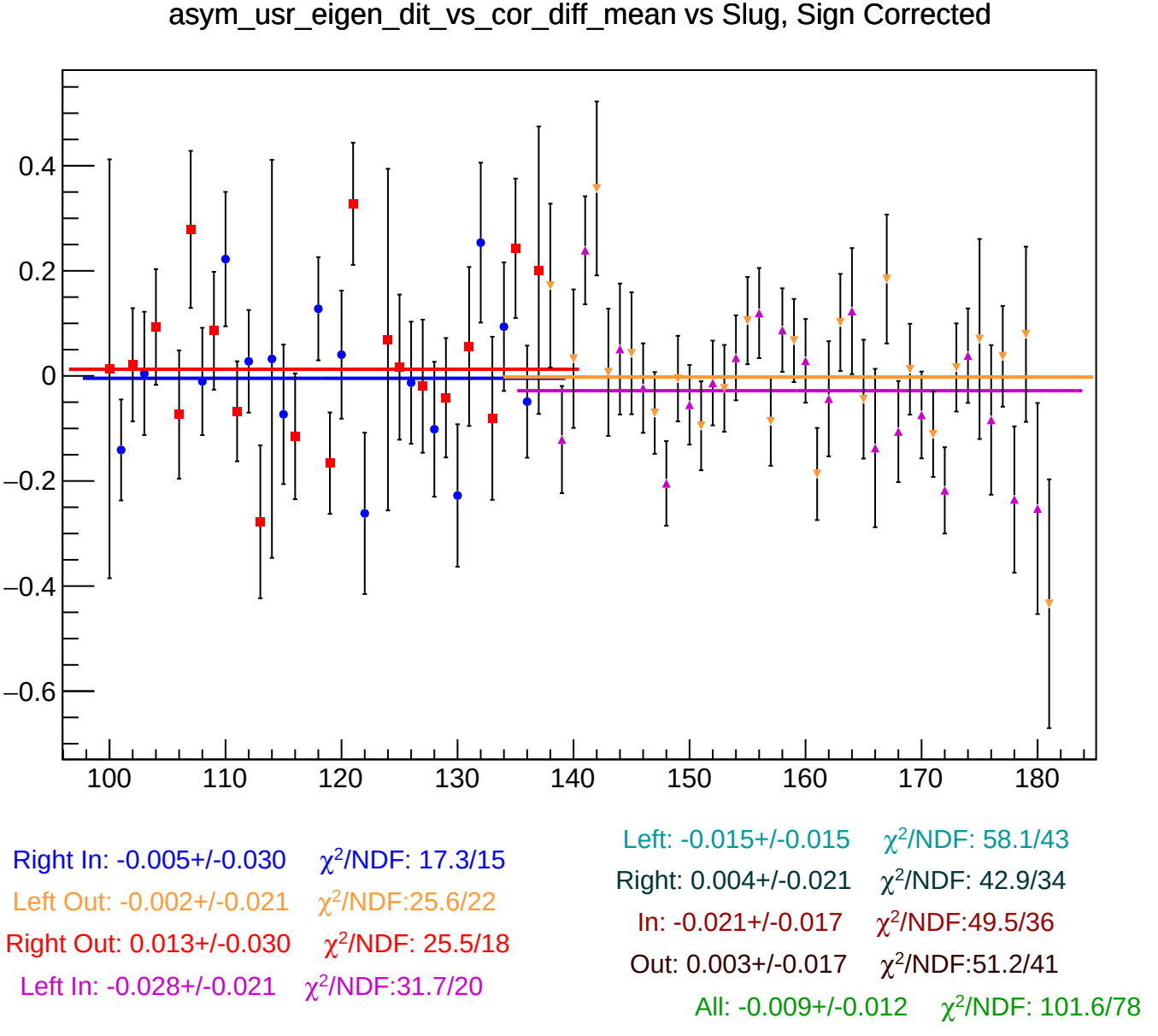
Left: 0.005+/-0.000 $\chi^2$/NDF: 4798832.1/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 16183584.5/34

In: 0.003+/-0.000 $\chi^2$/NDF:20646610.9/36

Out: 0.005+/-0.000 $\chi^2$/NDF:5802849.9/41

All: 0.004+/-0.000 $\chi^2$/NDF: 31508831.6/78


asym_usr_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
0.4
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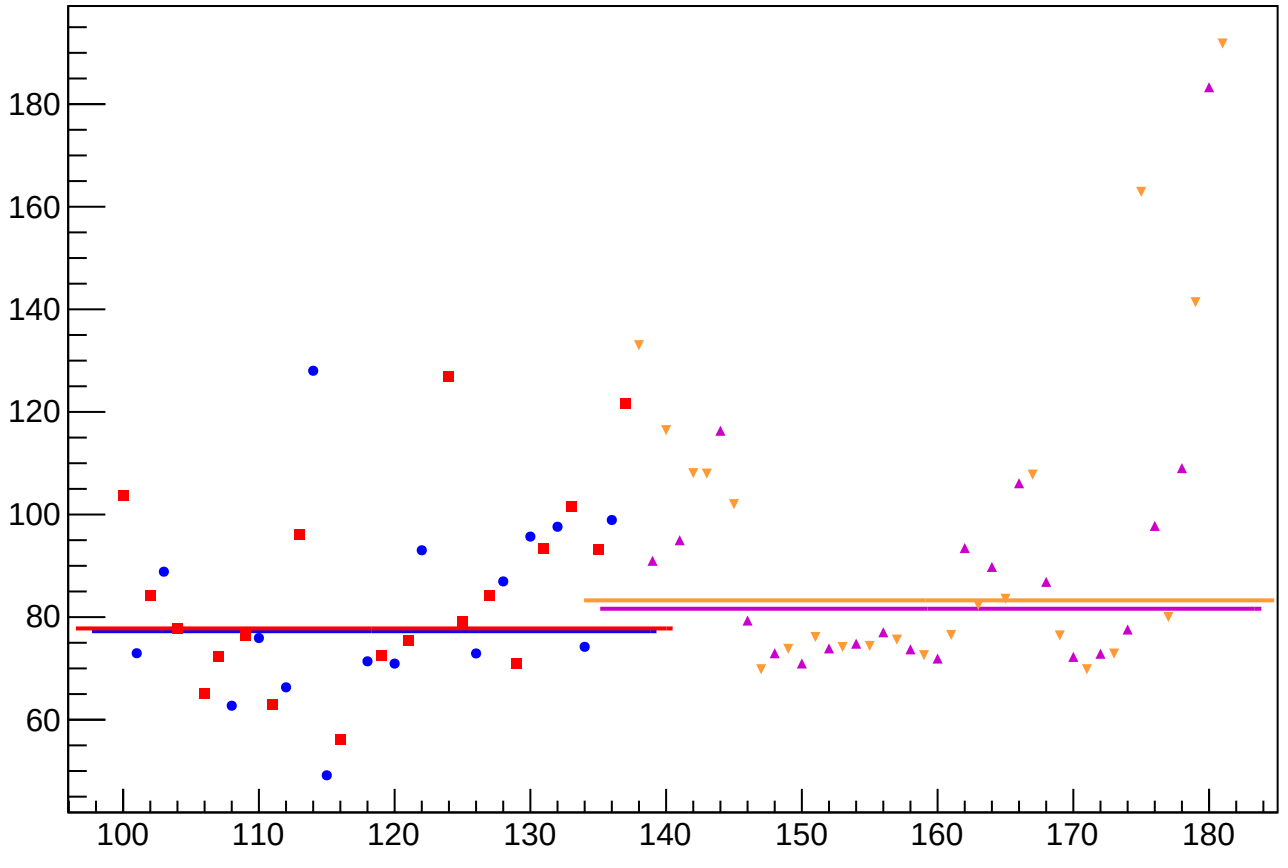
Right In: -0.005+/-0.030 χ²/NDF: 17.3/15
Left Out: -0.002+/-0.021 χ²/NDF:25.6/22
Right Out: 0.013+/-0.030 χ²/NDF: 25.5/18
Left In: -0.028+/-0.021 χ²/NDF:31.7/20
Left: -0.015+/-0.015 χ²/NDF: 58.1/43
Right: 0.004+/-0.021 χ²/NDF: 42.9/34
In: -0.021+/-0.017 χ²/NDF:49.5/36
Out: 0.003+/-0.017 χ²/NDF:51.2/41
All: -0.009+/-0.012 χ²/NDF: 101.6/78




Right In: 77.257+/-0.021 $\chi^2$/NDF: 419276.8/15

Left Out: 83.268+/-0.015 $\chi^2$/NDF:1916898.0/22

Right Out: 77.795+/-0.021 $\chi^2$/NDF: 396473.9/18

Left In: 81.635+/-0.015 $\chi^2$/NDF:1117400.4/20

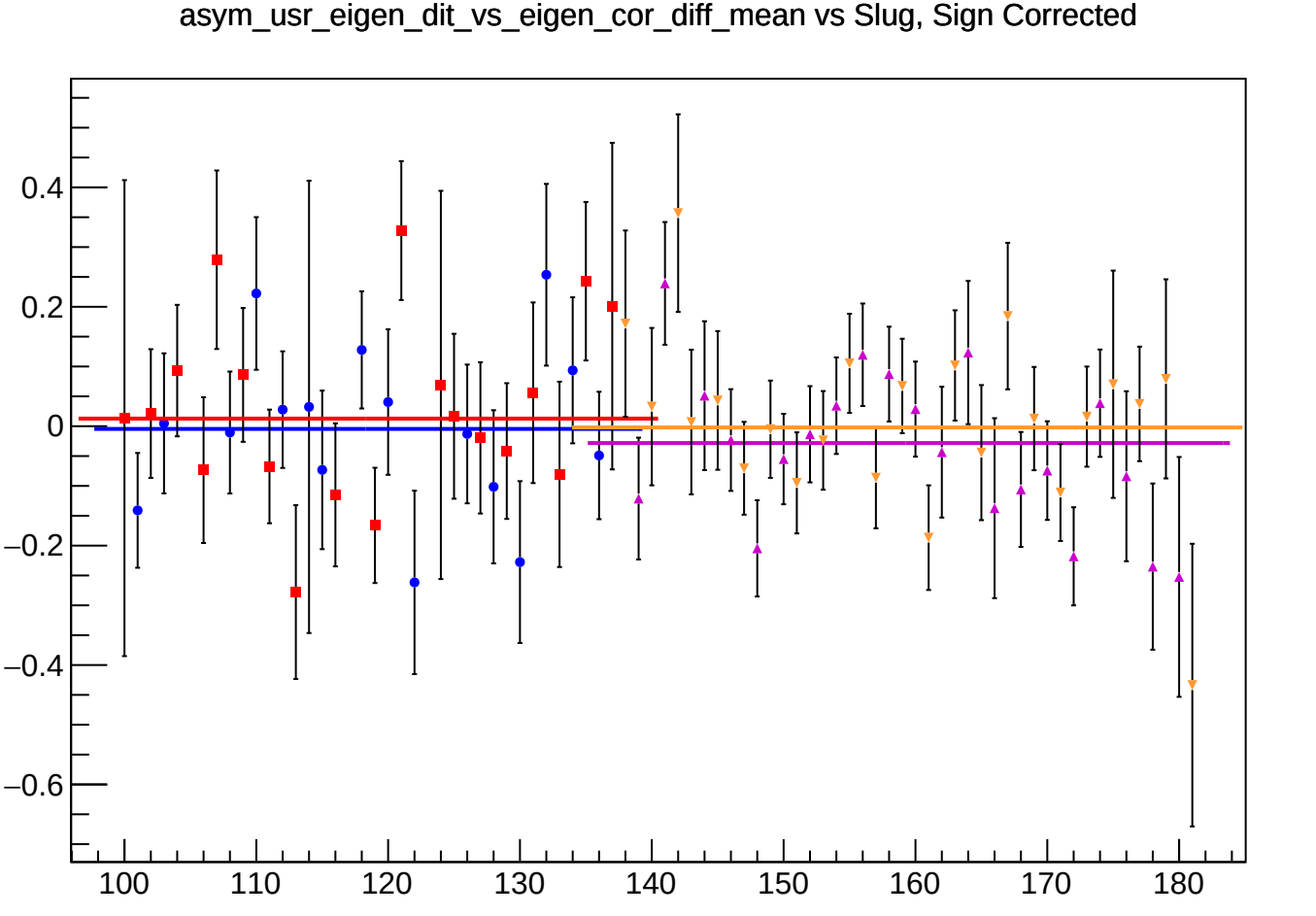
Left: 82.452+/-0.010 $\chi^2$/NDF: 3040515.7/43

Right: 77.529+/-0.015 $\chi^2$/NDF: 816074.1/34

In: 80.224+/-0.012 $\chi^2$/NDF:1565440.5/36

Out: 81.480+/-0.012 $\chi^2$/NDF:2359033.2/41

All: 80.855+/-0.009 $\chi^2$/NDF: 3929919.5/78




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: -0.002+/-0.021 $\chi^2$/NDF:25.6/22

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: -0.028+/-0.021 $\chi^2$/NDF:31.7/20

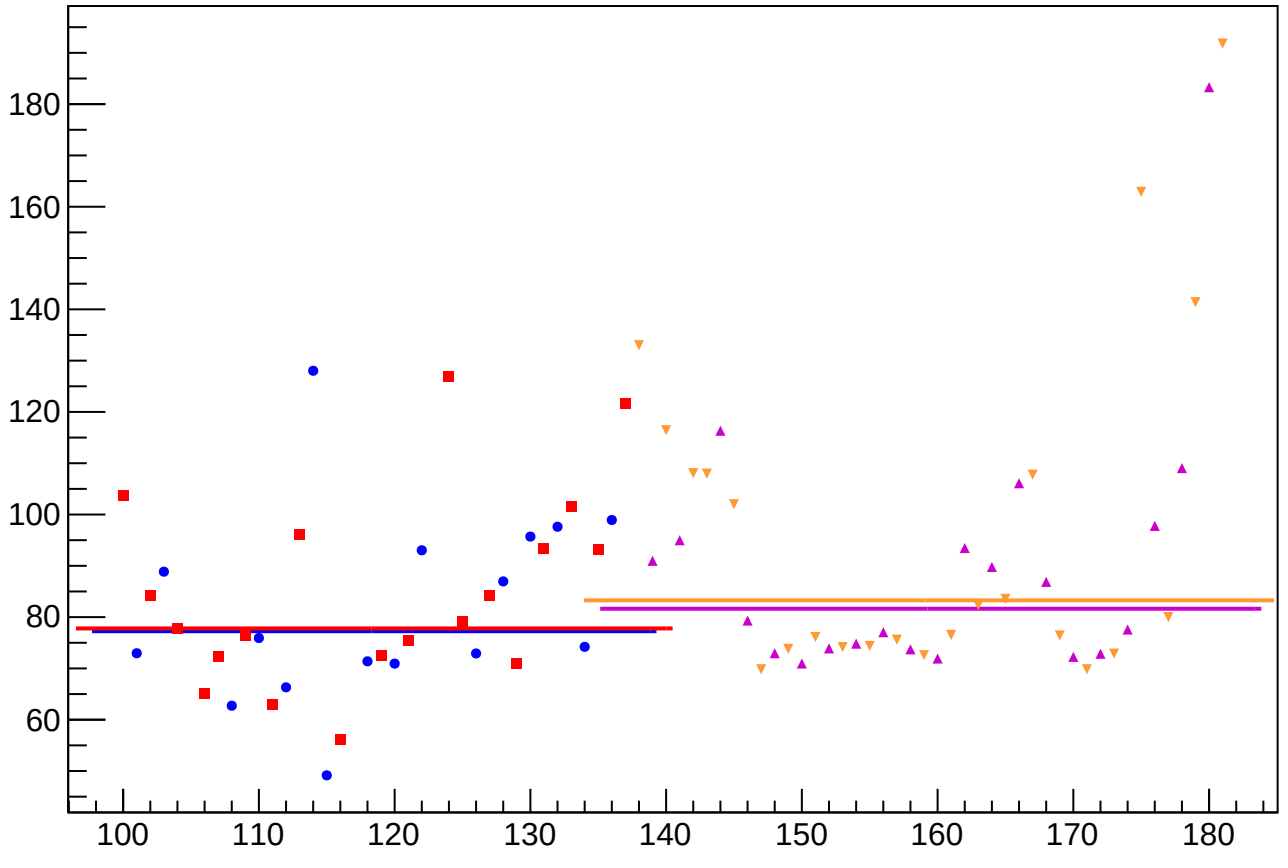
Left: -0.015+/-0.015 $\chi^2$/NDF: 58.1/43

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: -0.021+/-0.017 $\chi^2$/NDF:49.5/36

Out: 0.003+/-0.017 $\chi^2$/NDF:51.2/41

All: -0.009+/-0.012 $\chi^2$/NDF: 101.6/78




Right In: 77.257+/-0.021 $\chi^2$/NDF: 419276.8/15

Left Out: 83.268+/-0.015 $\chi^2$/NDF:1916898.0/22

Right Out: 77.795+/-0.021 $\chi^2$/NDF: 396473.9/18

Left In: 81.635+/-0.015 $\chi^2$/NDF:1117400.4/20

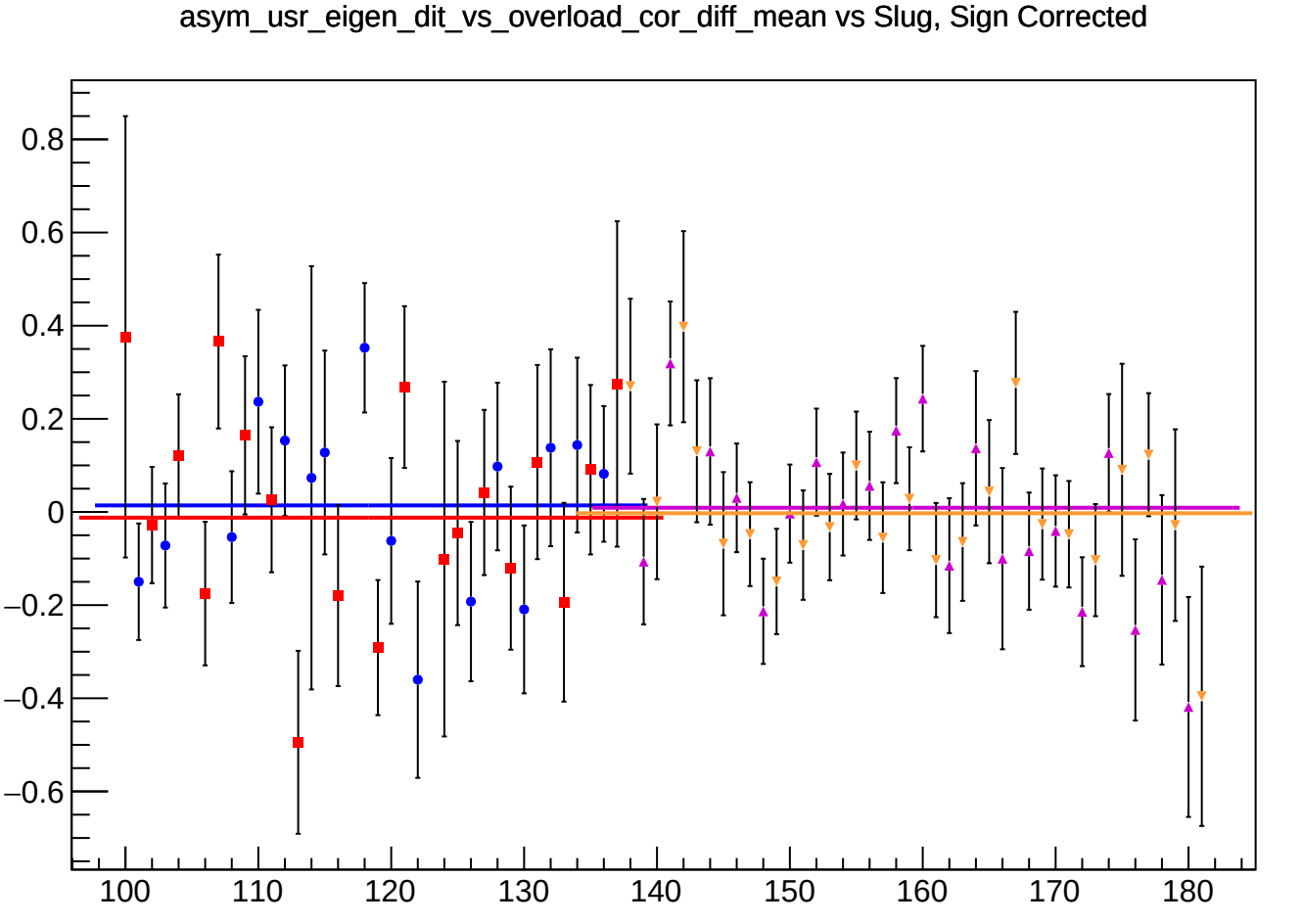
Left: 82.452+/-0.010 $\chi^2$/NDF: 3040515.7/43

Right: 77.529+/-0.015 $\chi^2$/NDF: 816074.1/34

In: 80.224+/-0.012 $\chi^2$/NDF:1565440.5/36

Out: 81.480+/-0.012 $\chi^2$/NDF:2359033.2/41

All: 80.855+/-0.009 $\chi^2$/NDF: 3929919.5/78




Right In: 0.014+/-0.042 $\chi^2$/NDF: 18.2/15

Left Out: -0.003+/-0.028 $\chi^2$/NDF:18.5/22

Right Out: -0.012+/-0.041 $\chi^2$/NDF: 23.8/18

Left In: 0.009+/-0.028 $\chi^2$/NDF:30.7/20

Left: 0.003+/-0.020 $\chi^2$/NDF: 49.3/43

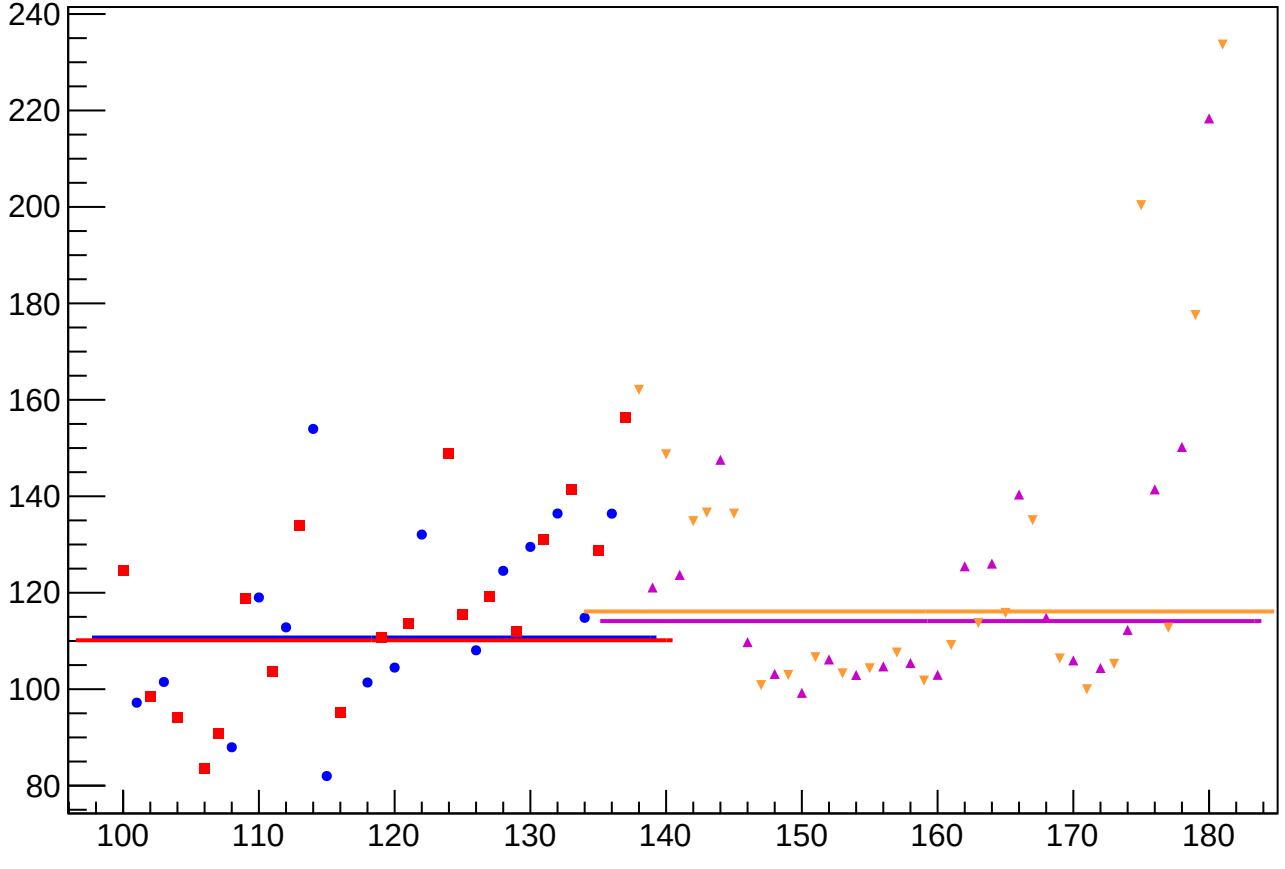
Right: 0.001+/-0.030 $\chi^2$/NDF: 42.1/34

In: 0.011+/-0.024 $\chi^2$/NDF:48.9/36

Out: -0.006+/-0.023 $\chi^2$/NDF:42.3/41

All: 0.002+/-0.017 $\chi^2$/NDF: 91.5/78

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 110.714+/-0.030 $\chi^2$/NDF: 299948.2/15

Left Out: 116.117+/-0.020 $\chi^2$/NDF:1369485.1/22

Right Out: 110.144+/-0.029 $\chi^2$/NDF: 326696.7/18

Left In: 114.121+/-0.020 $\chi^2$/NDF:832536.3/20

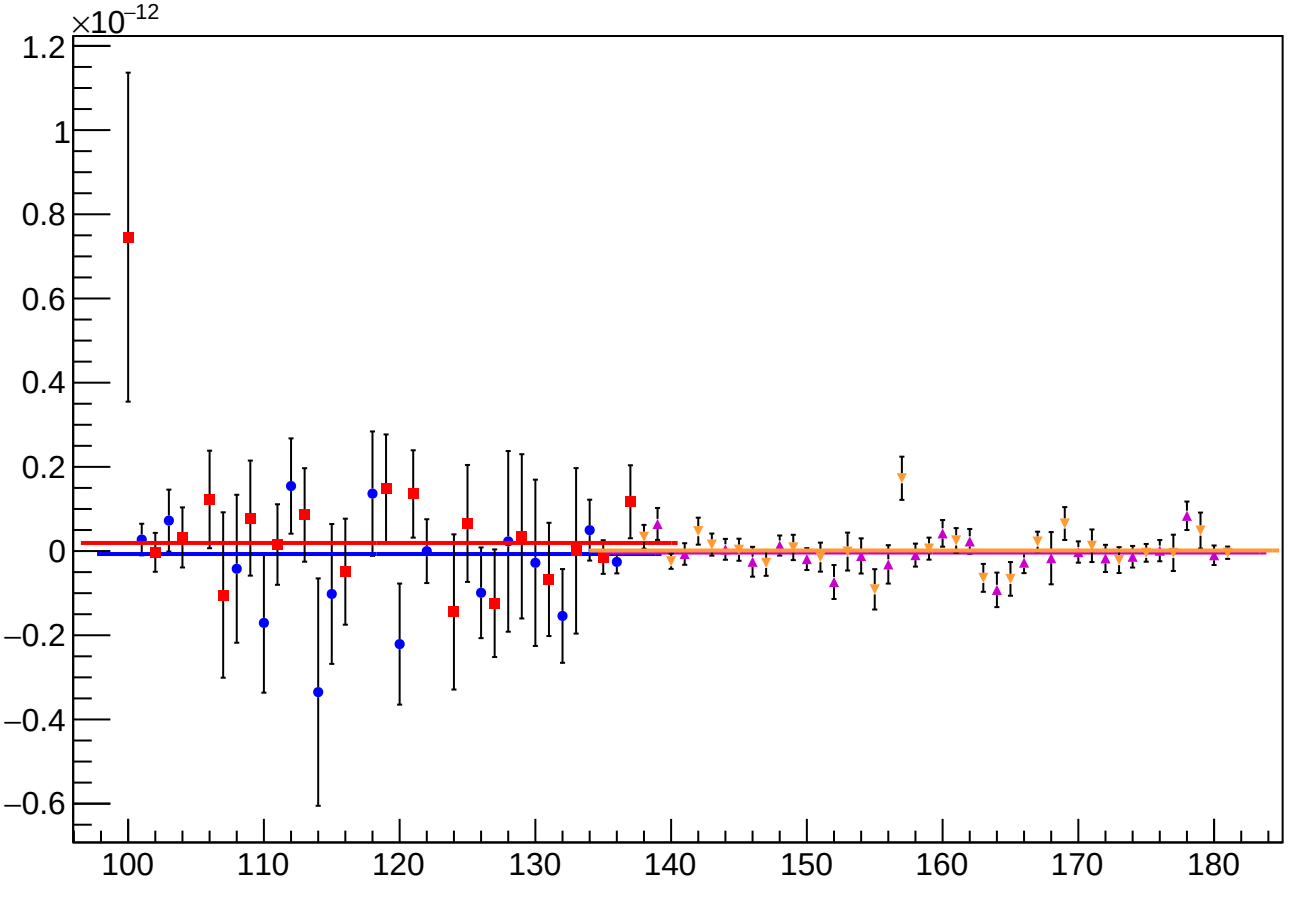
Left: 115.125+/-0.014 $\chi^2$/NDF: 2206980.0/43

Right: 110.422+/-0.021 $\chi^2$/NDF: 626830.6/34

In: 113.059+/-0.017 $\chi^2$/NDF:1141430.7/36

Out: 114.213+/-0.016 $\chi^2$/NDF:1724666.5/41

All: 113.643+/-0.012 $\chi^2$/NDF: 2868516.9/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:34.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:23.7/20

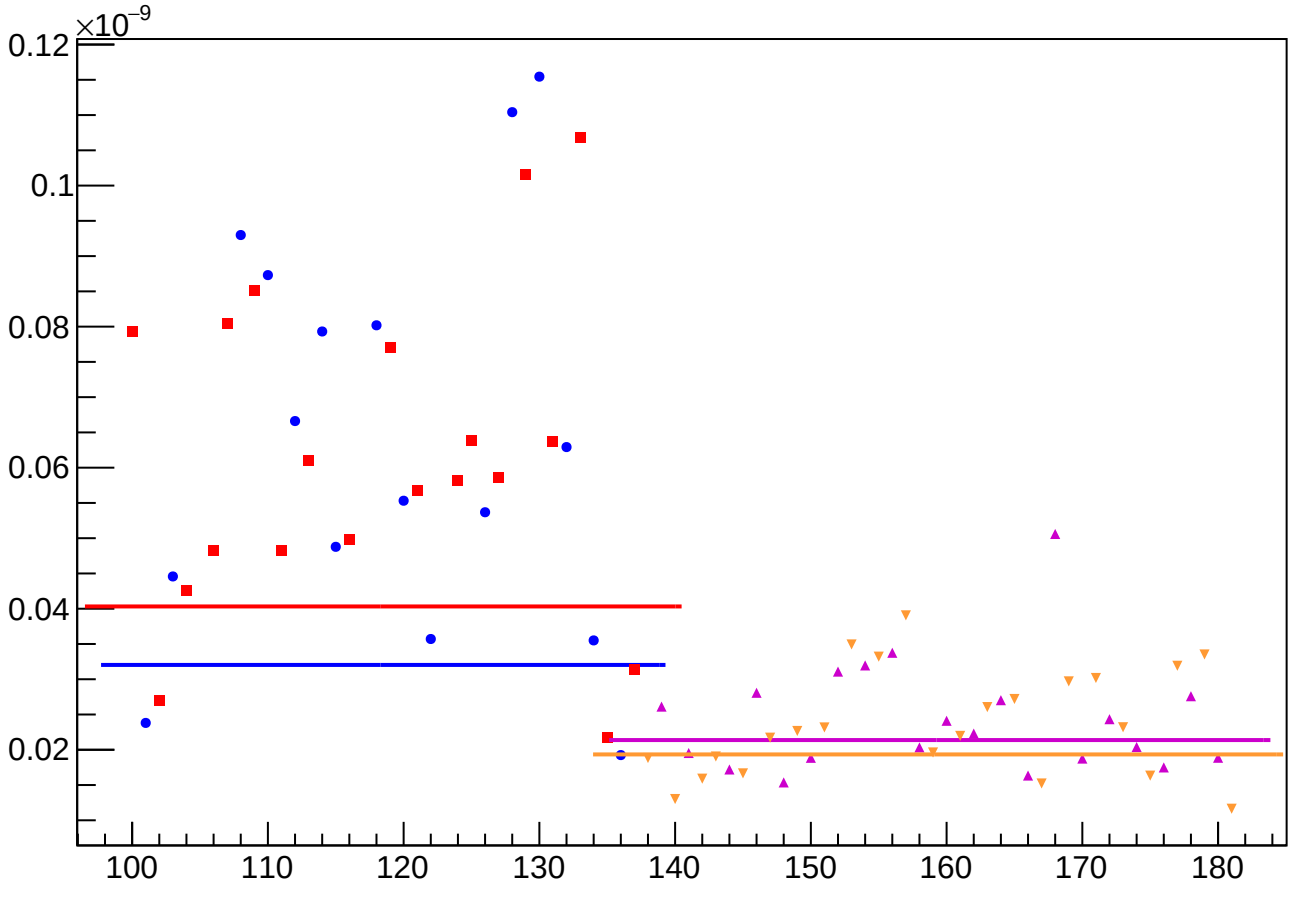
Left: -0.000+/-0.000 $\chi^2$/NDF: 58.7/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 27.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:37.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:48.0/41

All: -0.000+/-0.000 $\chi^2$/NDF: 85.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2459312.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2601615.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1866332.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1469542.8/20

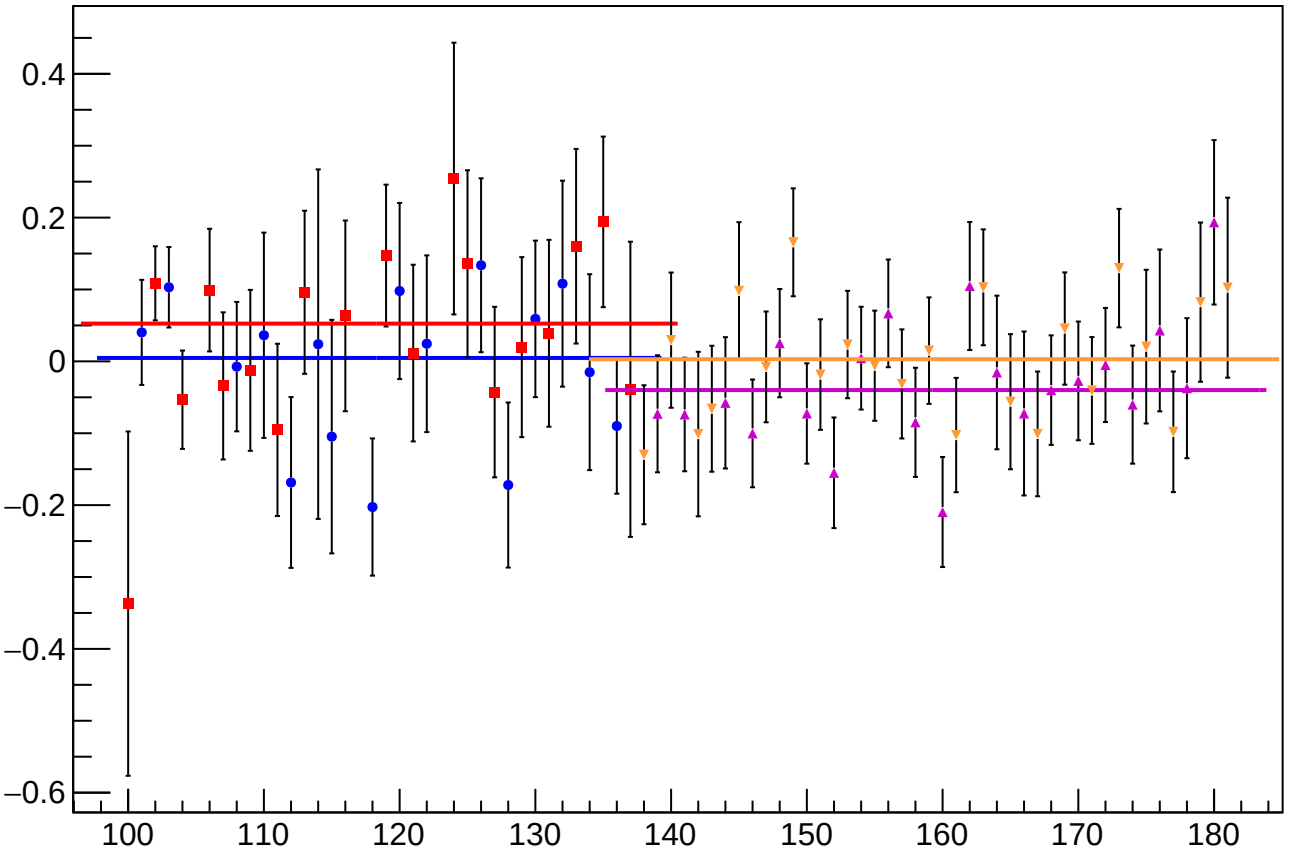
Left: 0.000+/-0.000 $\chi^2$/NDF: 4179410.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 4504924.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:4554272.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6299821.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10942964.5/78




Right In: 0.005+/-0.026 $\chi^2$/NDF: 16.6/15

Left Out: 0.003+/-0.018 $\chi^2$/NDF:20.3/22

Right Out: 0.053+/-0.024 $\chi^2$/NDF: 14.8/18

Left In: -0.040+/-0.018 $\chi^2$/NDF:19.7/20

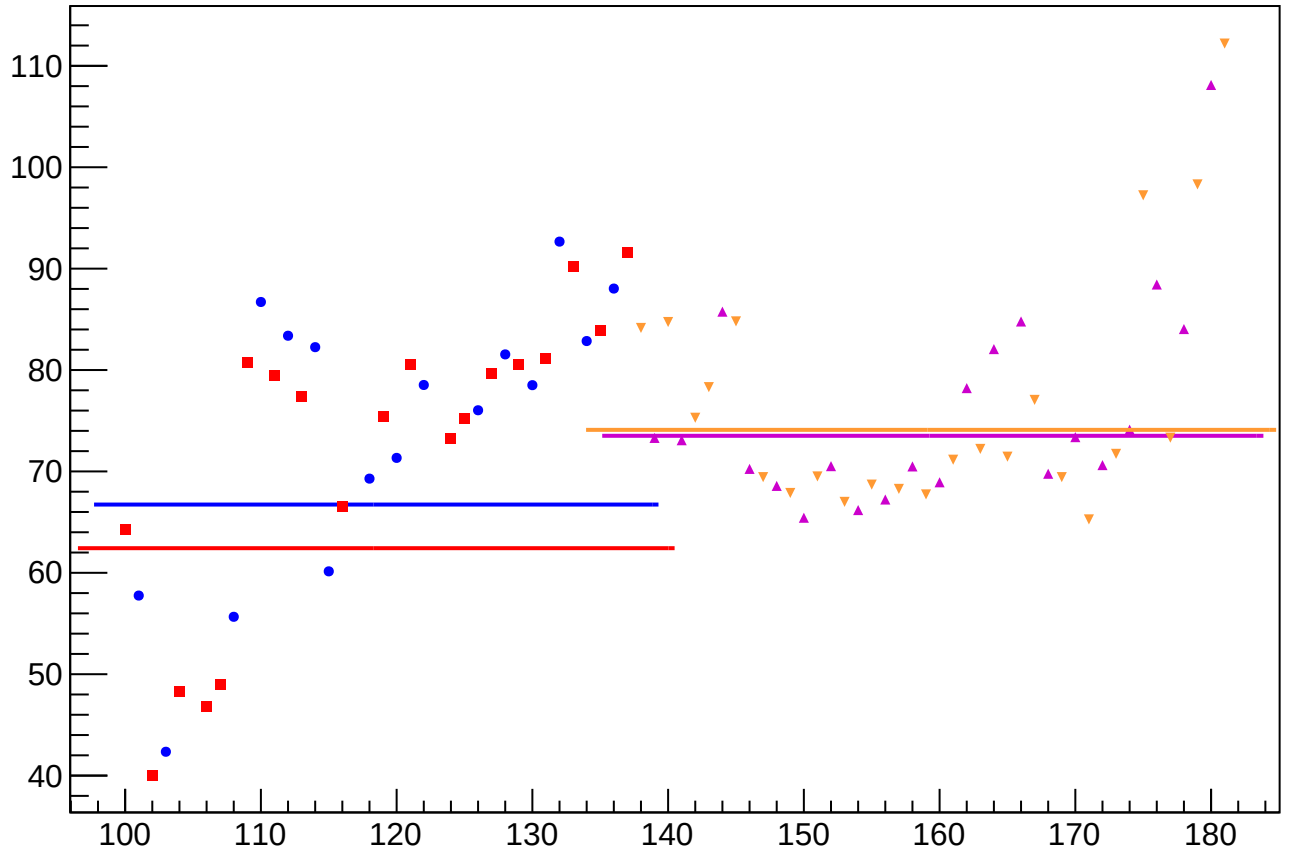
Left: -0.018+/-0.013 $\chi^2$/NDF: 42.8/43

Right: 0.030+/-0.018 $\chi^2$/NDF: 33.2/34

In: -0.025+/-0.015 $\chi^2$/NDF:38.3/36

Out: 0.020+/-0.014 $\chi^2$/NDF:37.8/41

All: -0.002+/-0.010 $\chi^2$/NDF: 81.0/78




Right In: 66.732+/-0.018 $\chi^2$/NDF: 816752.6/15

Left Out: 74.100+/-0.013 $\chi^2$/NDF:579109.3/22

Right Out: 62.429+/-0.017 $\chi^2$/NDF: 1114078.0/18

Left In: 73.514+/-0.013 $\chi^2$/NDF:410638.7/20

Left: 73.813+/-0.009 $\chi^2$/NDF: 990816.7/43

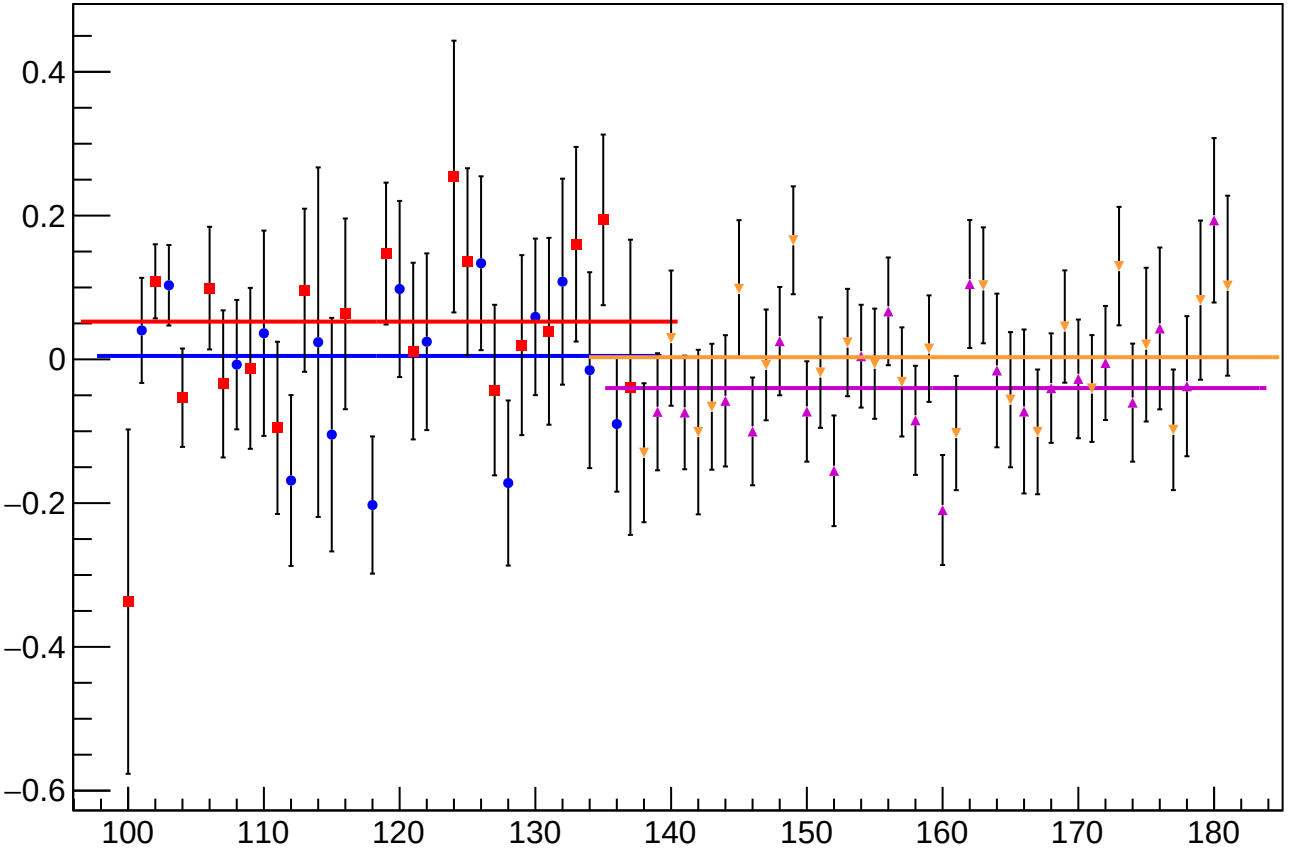
Right: 64.425+/-0.012 $\chi^2$/NDF: 1960436.9/34

In: 71.289+/-0.010 $\chi^2$/NDF:1319546.0/36

Out: 69.999+/-0.010 $\chi^2$/NDF:1997715.6/41

All: 70.620+/-0.007 $\chi^2$/NDF: 3325115.4/78

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.026 $\chi^2$/NDF: 16.6/15

Left Out: 0.003+/-0.018 $\chi^2$/NDF:20.3/22

Right Out: 0.053+/-0.024 $\chi^2$/NDF: 14.8/18

Left In: -0.040+/-0.018 $\chi^2$/NDF:19.7/20

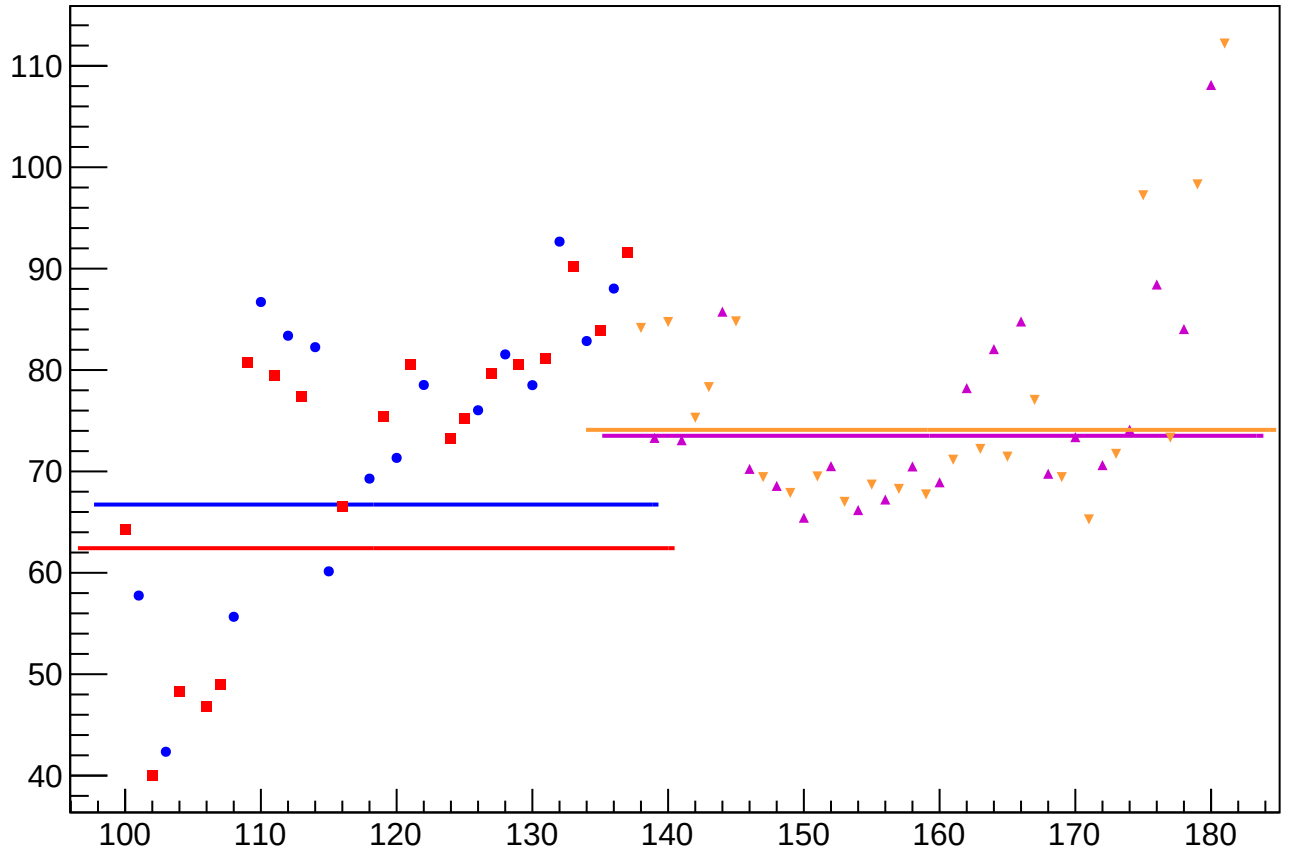
Left: -0.018+/-0.013 $\chi^2$/NDF: 42.8/43

Right: 0.030+/-0.018 $\chi^2$/NDF: 33.2/34

In: -0.025+/-0.015 $\chi^2$/NDF:38.3/36

Out: 0.020+/-0.014 $\chi^2$/NDF:37.8/41

All: -0.002+/-0.010 $\chi^2$/NDF: 81.0/78




Right In: 66.732+/-0.018 $\chi^2$/NDF: 816752.6/15

Left Out: 74.100+/-0.013 $\chi^2$/NDF:579109.3/22

Right Out: 62.429+/-0.017 $\chi^2$/NDF: 1114078.0/18

Left In: 73.514+/-0.013 $\chi^2$/NDF:410638.7/20

Left: 73.813+/-0.009 $\chi^2$/NDF: 990816.7/43

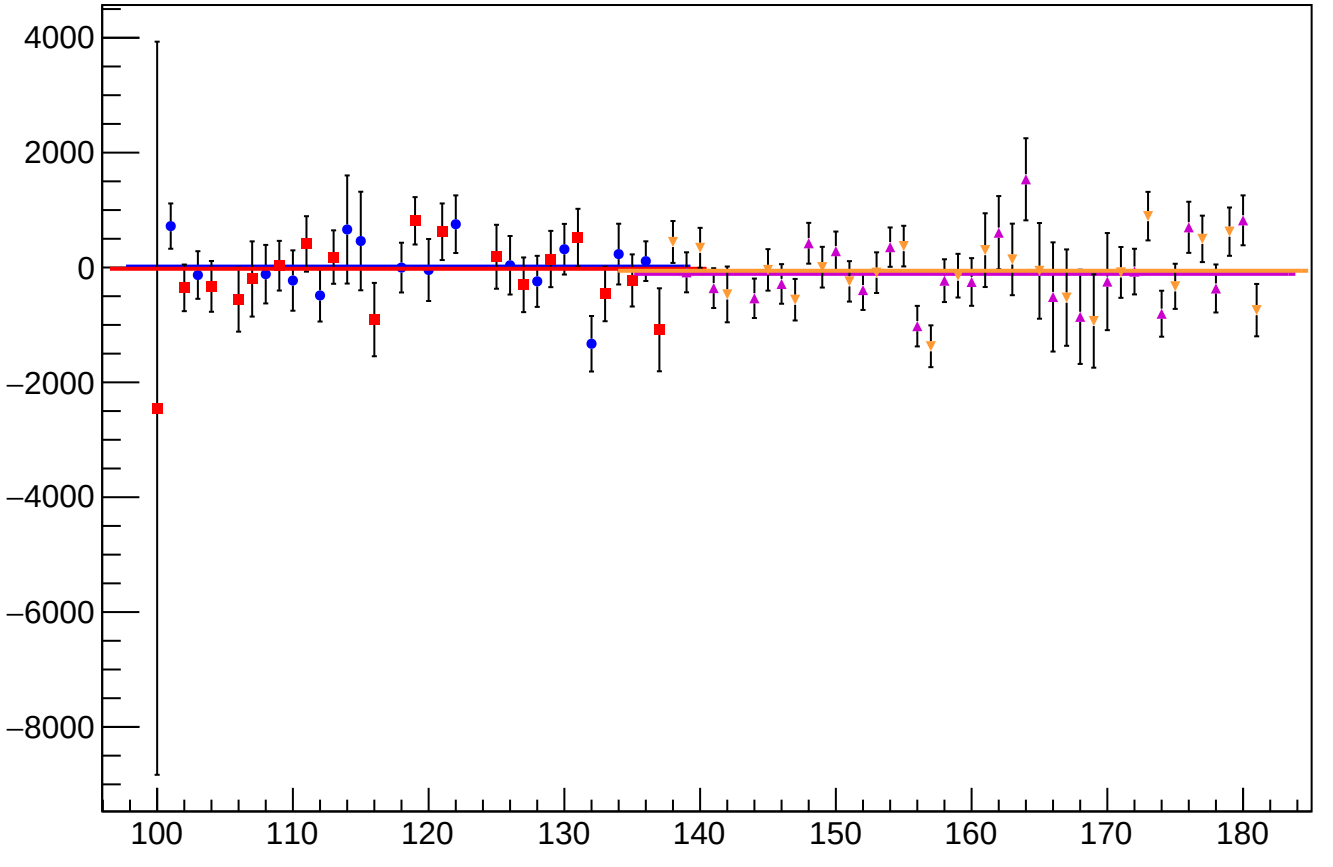
Right: 64.425+/-0.012 $\chi^2$/NDF: 1960436.9/34

In: 71.289+/-0.010 $\chi^2$/NDF:1319546.0/36

Out: 69.999+/-0.010 $\chi^2$/NDF:1997715.6/41

All: 70.620+/-0.007 $\chi^2$/NDF: 3325115.4/78

# asym_dsl_mean vs Slug, Sign Corrected




Right In: 15.517+/-119.431 $\chi^2$/NDF: 16.5/15

Left Out: -57.046+/-89.478 $\chi^2$/NDF:34.9/21

Right Out: -22.145+/-119.211 $\chi^2$/NDF: 16.0/17

Left In: -110.559+/-89.478 $\chi^2$/NDF:34.2/20

Left: -83.803+/-63.271 $\chi^2$/NDF: 69.3/42

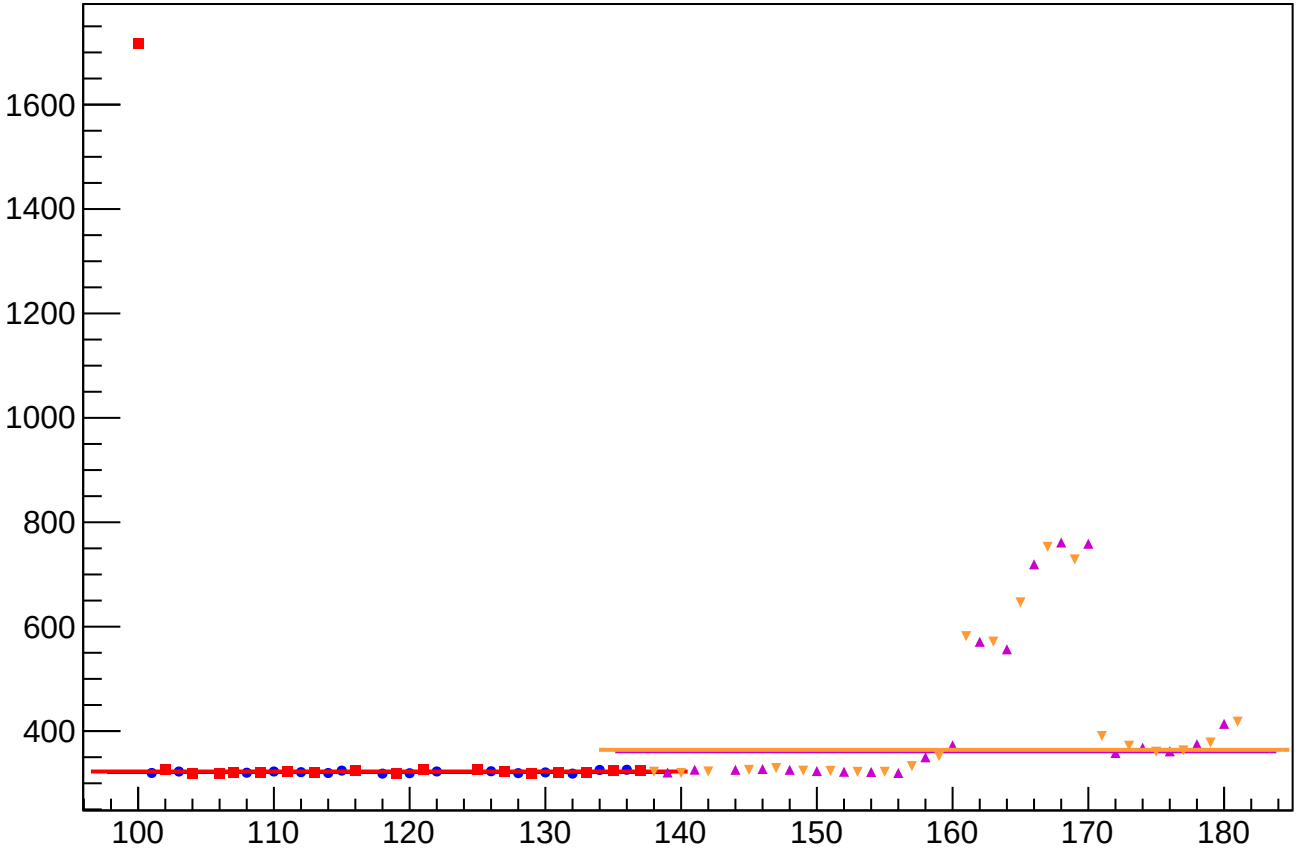
Right: -3.348+/-84.373 $\chi^2$/NDF: 32.6/33

In: -65.233+/-71.610 $\chi^2$/NDF:51.4/36

Out: -44.469+/-71.562 $\chi^2$/NDF:51.0/39

All: -54.844+/-50.619 $\chi^2$/NDF: 102.5/76

# asym_dsl_rms vs Slug, Sign Corrected




Right In: 321.604+/-0.084 $\chi^2$/NDF: 822.9/15

Left Out: 364.127+/-0.063 $\chi^2$/NDF:1791013.8/21

Right Out: 322.553+/-0.084 $\chi^2$/NDF: 96891.9/17

Left In: 361.266+/-0.063 $\chi^2$/NDF:1815653.7/20

Left: 362.696+/-0.045 $\chi^2$/NDF: 3607689.7/42

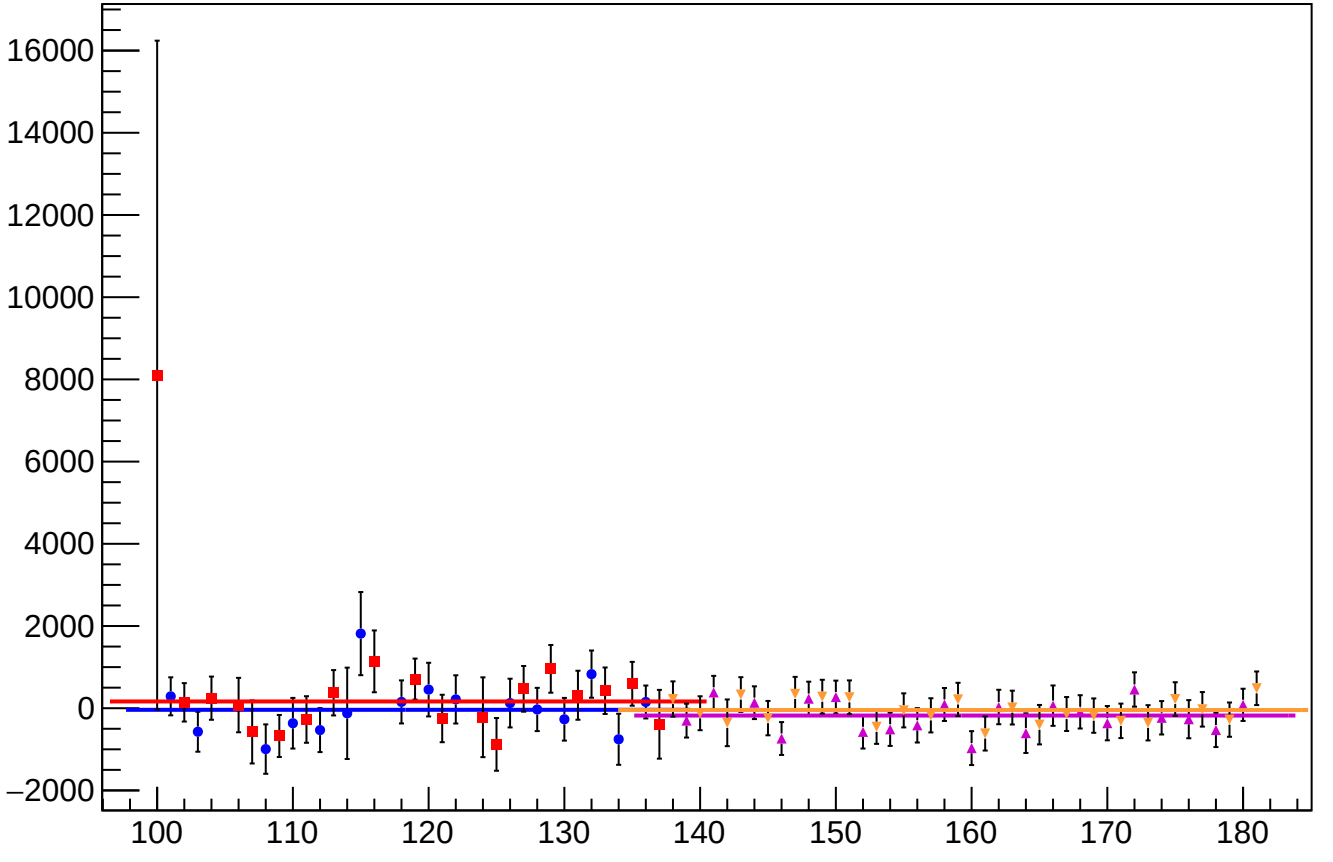
Right: 322.079+/-0.060 $\chi^2$/NDF: 97778.0/33

In: 347.007+/-0.051 $\chi^2$/NDF:1957747.9/36

Out: 349.145+/-0.051 $\chi^2$/NDF:2043491.3/39

All: 348.077+/-0.036 $\chi^2$/NDF: 4002131.3/76

# asym_dsr_mean vs Slug, Sign Corrected




Right In: -38.914+/-140.720 $\chi^2$/NDF: 13.7/15

Left Out: -44.309+/-88.034 $\chi^2$/NDF:11.3/22

Right Out: 164.639+/-138.962 $\chi^2$/NDF: 15.1/18

Left In: -178.058+/-90.734 $\chi^2$/NDF:18.0/20

Left: -109.164+/-63.182 $\chi^2$/NDF: 30.4/43

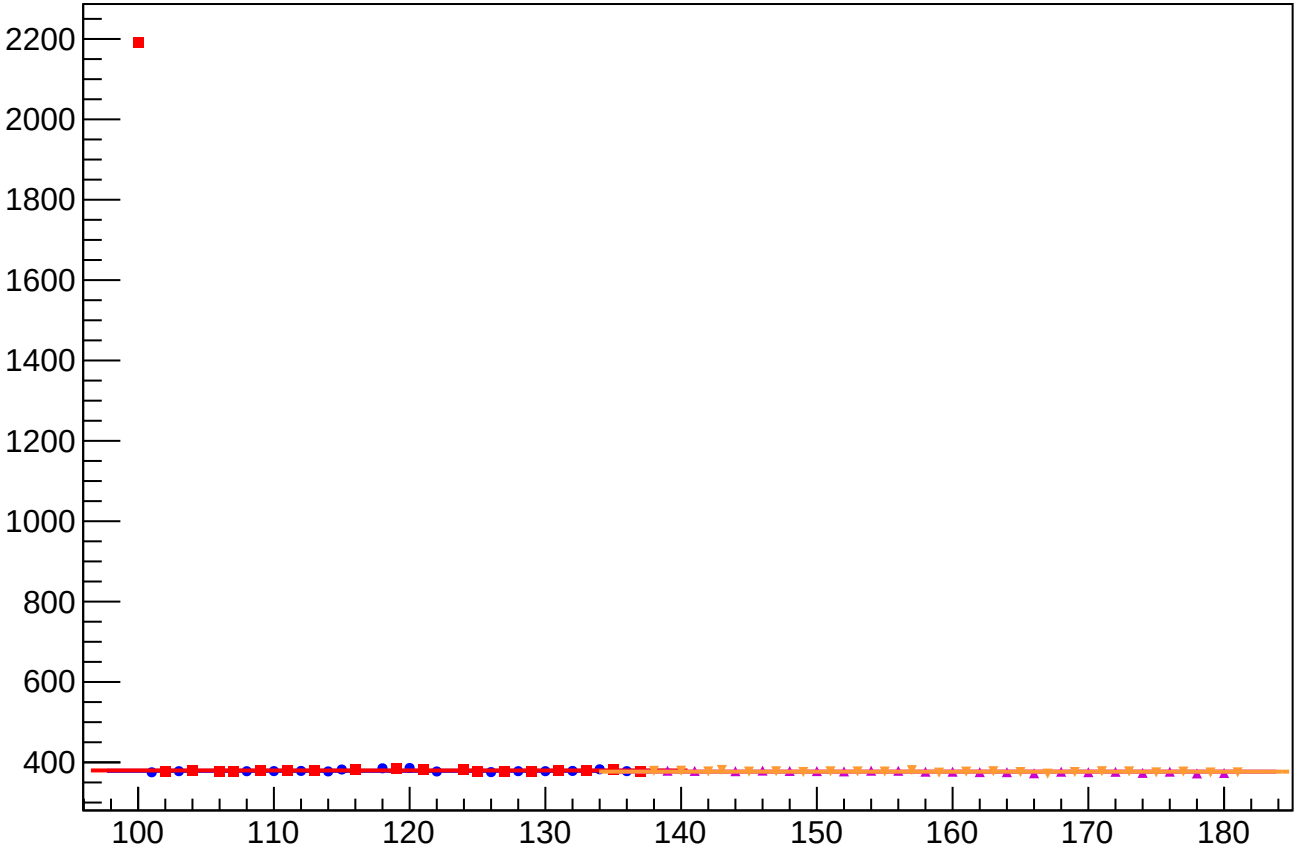
Right: 64.141+/-98.877 $\chi^2$/NDF: 29.9/34

In: -137.197+/-76.257 $\chi^2$/NDF:32.4/36

Out: 15.532+/-74.367 $\chi^2$/NDF:28.0/41

All: -58.916+/-53.241 $\chi^2$/NDF: 62.5/78

# asym_dsr_rms vs Slug, Sign Corrected




Right In: 378.910+/-0.100 $\chi^2$/NDF: 851.2/15

Left Out: 376.903+/-0.062 $\chi^2$/NDF:1044.5/22

Right Out: 379.878+/-0.098 $\chi^2$/NDF: 99621.5/18

Left In: 376.881+/-0.064 $\chi^2$/NDF:1067.3/20

Left: 376.893+/-0.045 $\chi^2$/NDF: 2111.9/43

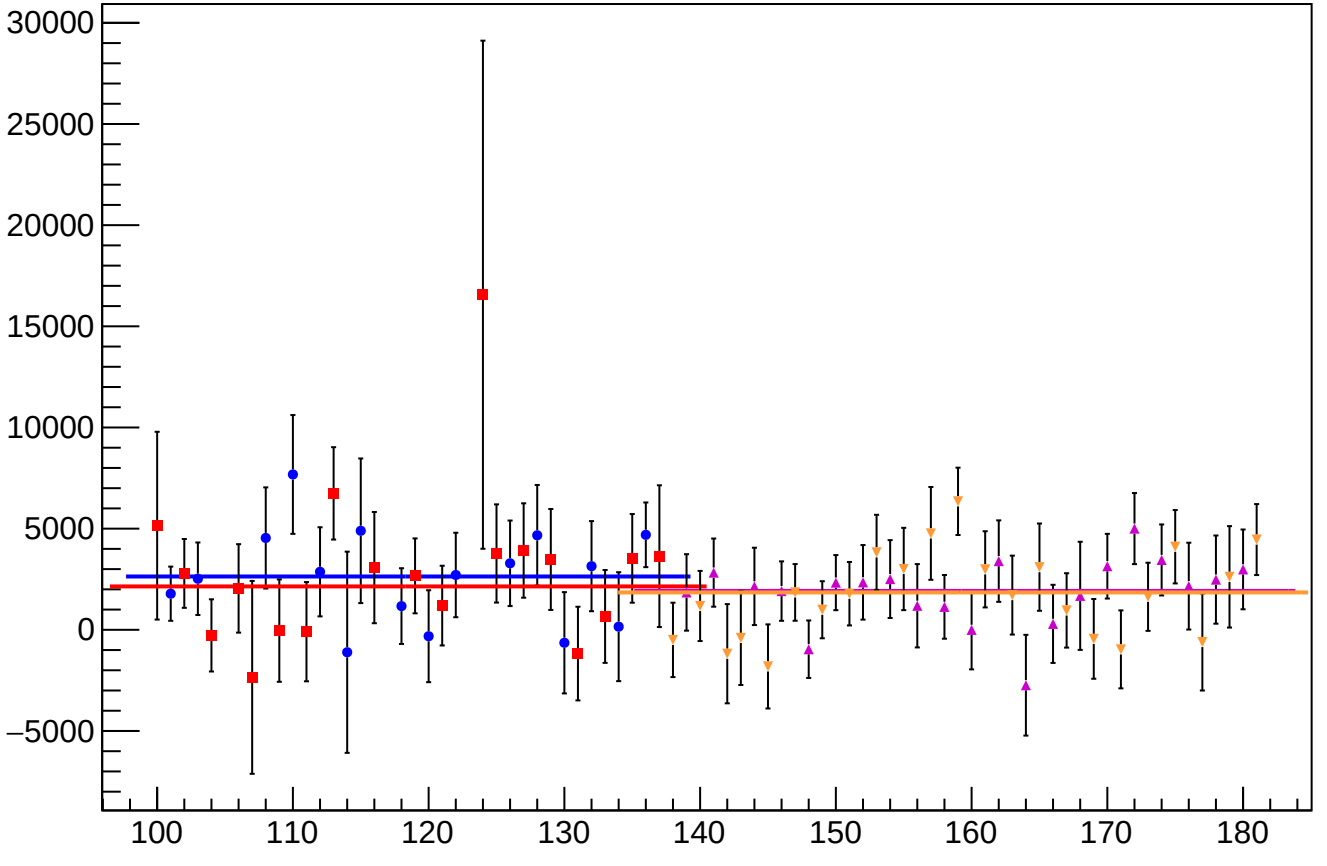
Right: 379.400+/-0.070 $\chi^2$/NDF: 100520.6/34

In: 377.477+/-0.054 $\chi^2$/NDF:2212.1/36

Out: 377.755+/-0.053 $\chi^2$/NDF:101319.9/41

All: 377.620+/-0.038 $\chi^2$/NDF: 103545.6/78

# asym_us_agg_avg_mean vs Slug, Sign Corrected




Right In: 2635.397+/-538.034 $\chi^2$/NDF: 12.3/15

Left Out: 1847.359+/-388.879 $\chi^2$/NDF:27.5/22

Right Out: 2144.569+/-546.963 $\chi^2$/NDF: 15.0/18

Left In: 1921.612+/-394.933 $\chi^2$/NDF:15.5/20

Left: 1883.912+/-277.095 $\chi^2$/NDF: 43.0/43

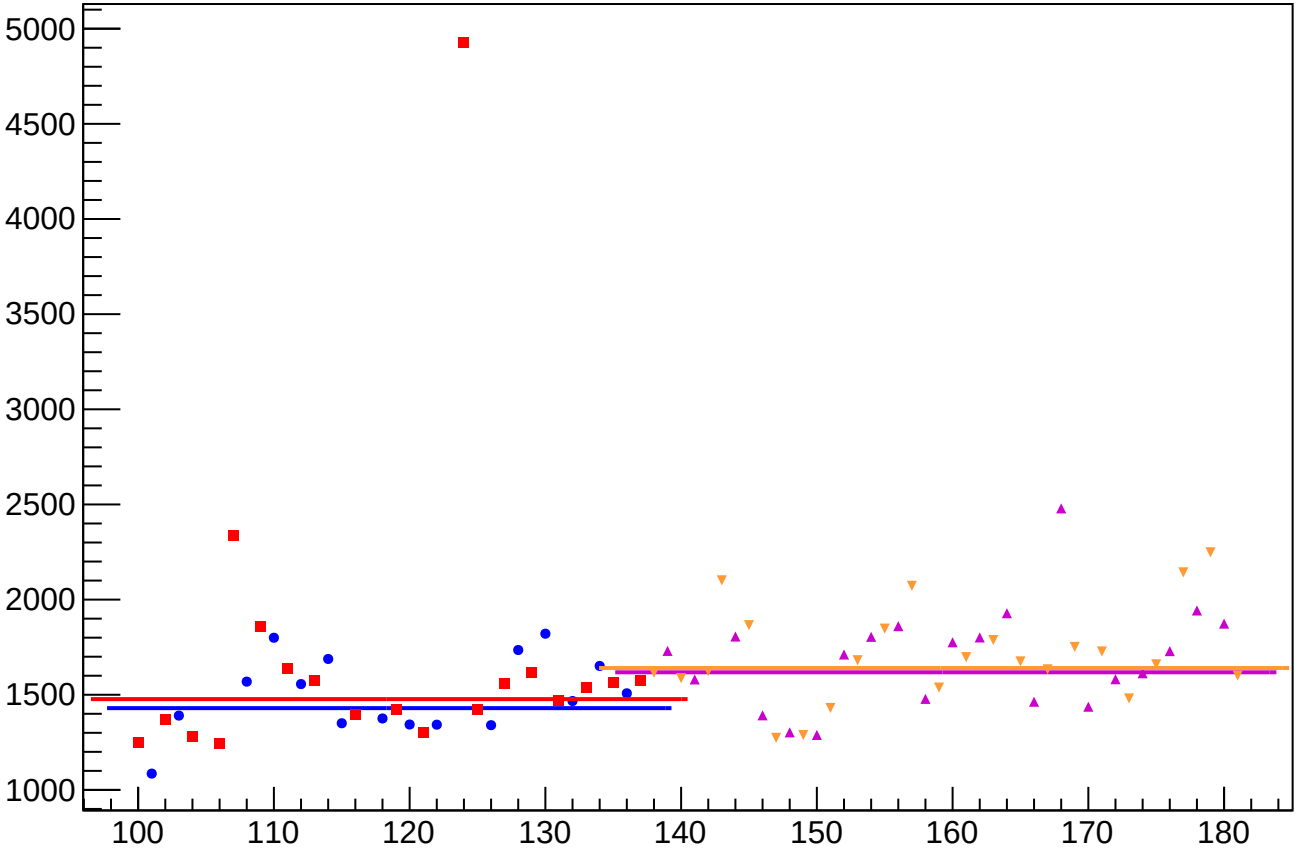
Right: 2394.022+/-383.566 $\chi^2$/NDF: 27.7/34

In: 2171.539+/-318.370 $\chi^2$/NDF:28.9/36

Out: 1947.152+/-316.939 $\chi^2$/NDF:42.7/41

All: 2058.840+/-224.614 $\chi^2$/NDF: 71.9/78

# asym_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 1429.654+/-0.380 $\chi^2$/NDF: 293388.5/15

Left Out: 1640.489+/-0.275 $\chi^2$/NDF:751262.6/22

Right Out: 1477.126+/-0.387 $\chi^2$/NDF: 369430.6/18

Left In: 1618.089+/-0.279 $\chi^2$/NDF:748912.1/20

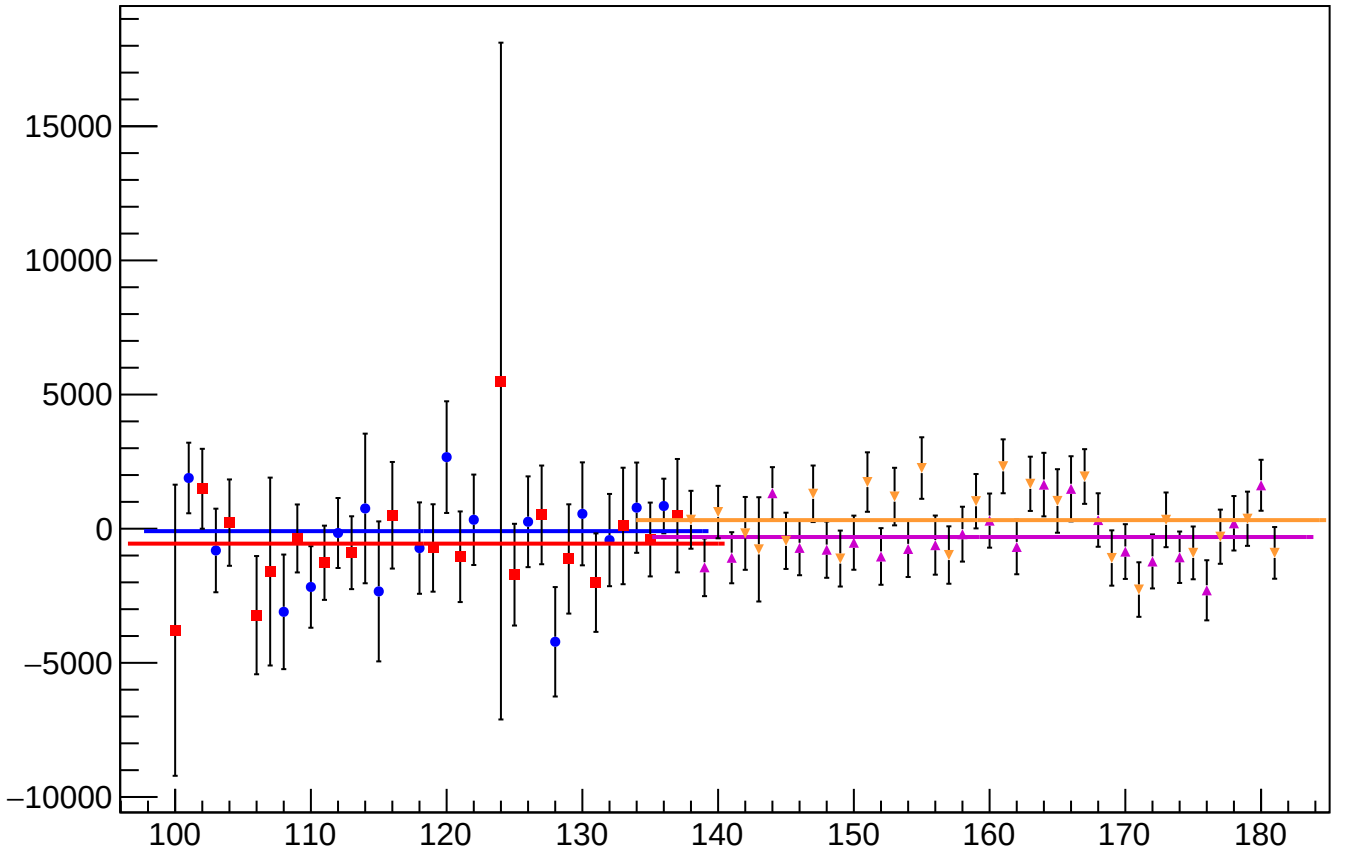
Left: 1629.462+/-0.196 $\chi^2$/NDF: 1503441.4/43

Right: 1452.999+/-0.271 $\chi^2$/NDF: 670475.8/34

In: 1552.109+/-0.225 $\chi^2$/NDF:1201723.3/36

Out: 1585.637+/-0.224 $\chi^2$/NDF:1239199.7/41

All: 1568.949+/-0.159 $\chi^2$/NDF: 2452063.2/78




Right In: -91.305+/-409.957 $\chi^2$/NDF: 14.5/15

Left Out: 319.652+/-221.843 $\chi^2$/NDF:31.5/22

Right Out: -556.840+/-411.346 $\chi^2$/NDF: 6.8/18

Left In: -310.097+/-225.135 $\chi^2$/NDF:20.8/20

Left: 9.415+/-158.018 $\chi^2$/NDF: 56.3/43

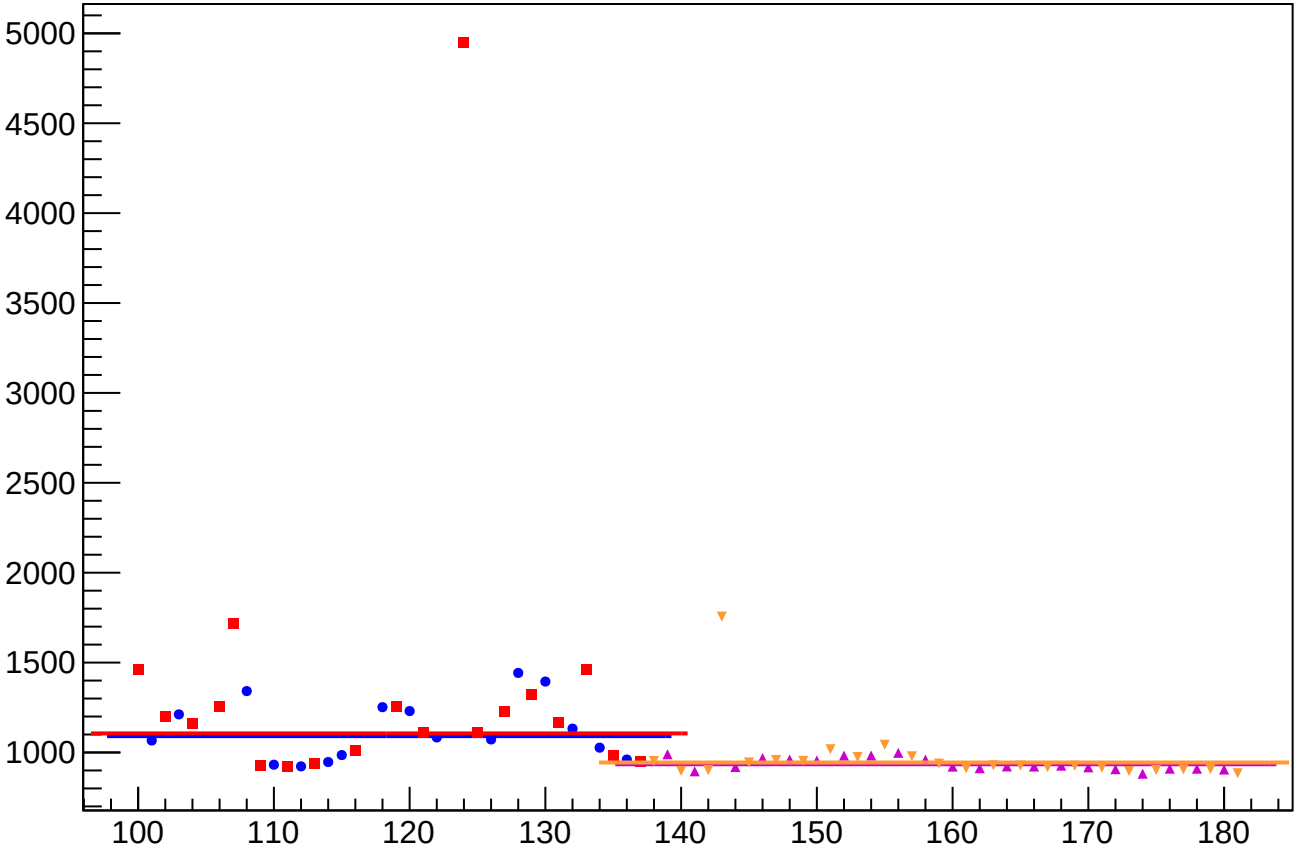
Right: -323.285+/-290.373 $\chi^2$/NDF: 21.9/34

In: -259.401+/-197.336 $\chi^2$/NDF:35.5/36

Out: 122.160+/-195.257 $\chi^2$/NDF:41.8/41

All: -66.600+/-138.797 $\chi^2$/NDF: 79.2/78

# asym_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 1091.041+/-0.290 $\chi^2$/NDF: 277304.9/15

Left Out: 944.287+/-0.157 $\chi^2$/NDF:410575.3/22

Right Out: 1106.046+/-0.291 $\chi^2$/NDF: 514097.9/18

Left In: 934.432+/-0.159 $\chi^2$/NDF:43915.2/20

Left: 939.432+/-0.112 $\chi^2$/NDF: 456434.9/43

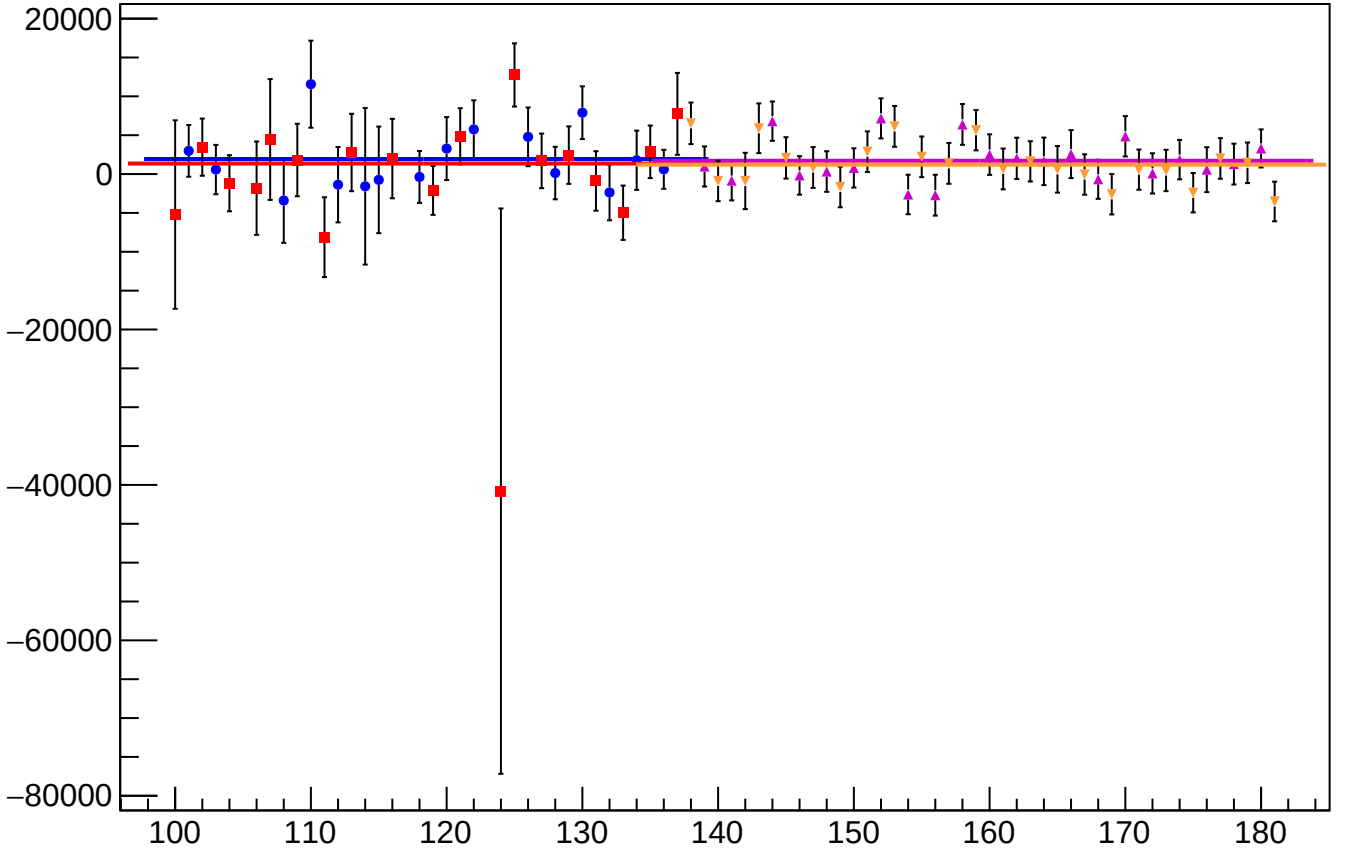
Right: 1098.518+/-0.205 $\chi^2$/NDF: 792737.9/34

In: 970.719+/-0.140 $\chi^2$/NDF:545460.6/36

Out: 980.735+/-0.138 $\chi^2$/NDF:1164266.1/41

All: 975.780+/-0.098 $\chi^2$/NDF: 1712329.8/78

# reg_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1939.656+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 1209.238+/-557.457 $\chi^2$/NDF:23.6/22

Right Out: 1353.428+/-985.119 $\chi^2$/NDF: 21.8/18

Left In: 1711.830+/-571.248 $\chi^2$/NDF:23.1/20

Left: 1454.394+/-398.968 $\chi^2$/NDF: 47.1/43

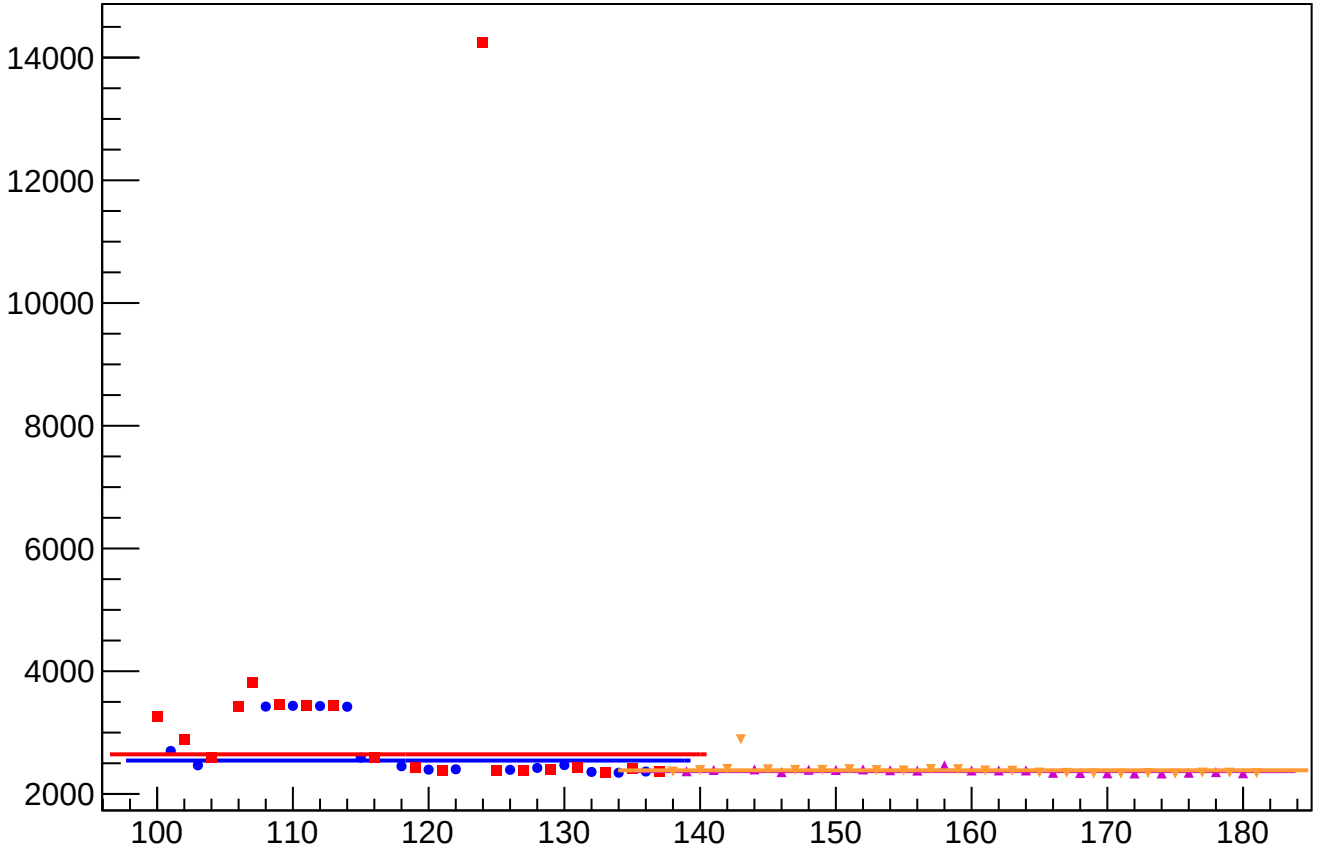
Right: 1656.397+/-684.775 $\chi^2$/NDF: 34.2/34

In: 1772.094+/-489.903 $\chi^2$/NDF:35.4/36

Out: 1244.211+/-485.164 $\chi^2$/NDF:45.4/41

All: 1505.587+/-344.726 $\chi^2$/NDF: 81.4/78

# reg_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2385.044+/-0.394 $\chi^2$/NDF:55981.8/22

Right Out: 2645.647+/-0.697 $\chi^2$/NDF: 536965.2/18

Left In: 2372.748+/-0.404 $\chi^2$/NDF:5915.8/20

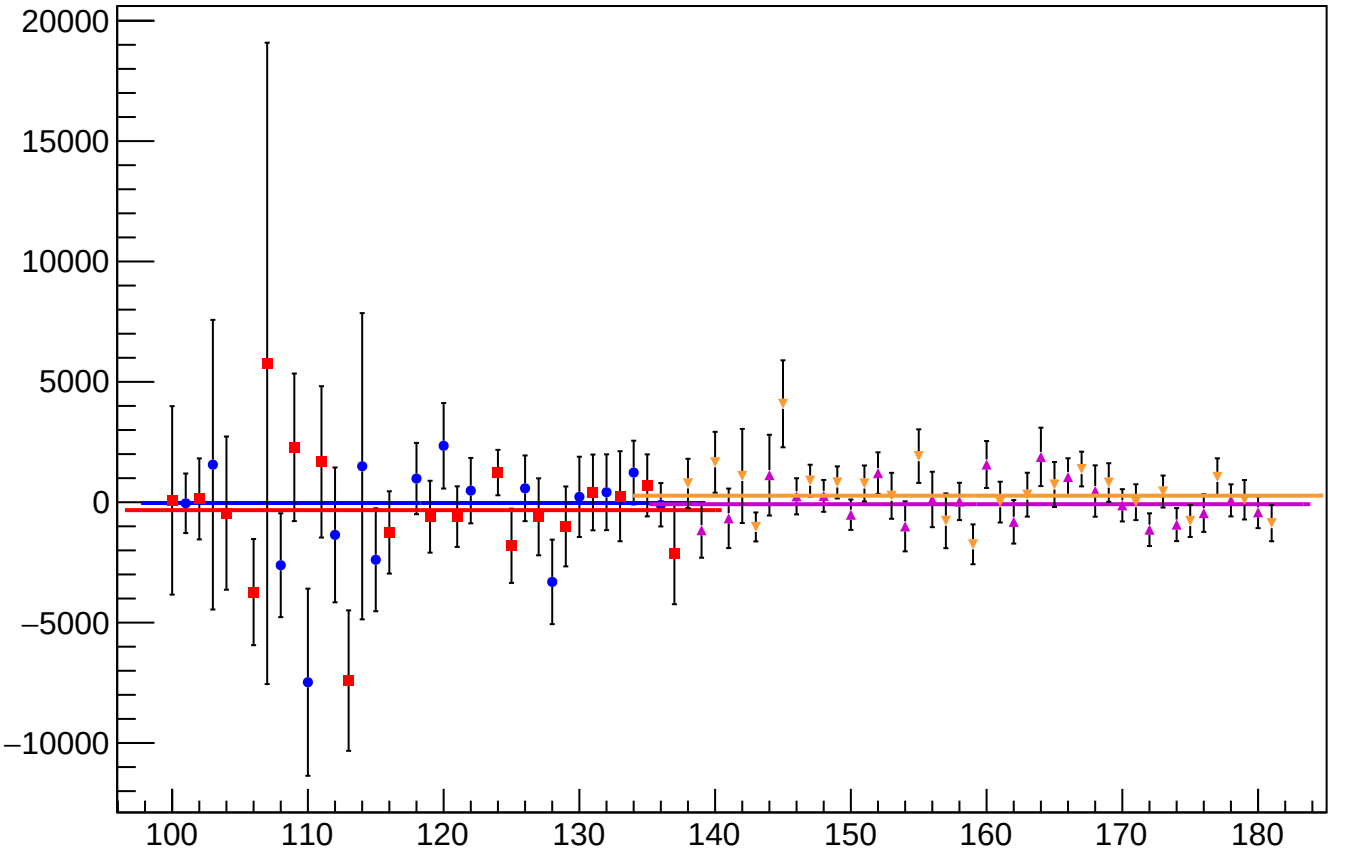
Left: 2379.046+/-0.282 $\chi^2$/NDF: 62372.2/43

Right: 2593.330+/-0.484 $\chi^2$/NDF: 773493.8/34

In: 2418.157+/-0.346 $\chi^2$/NDF:279306.6/36

Out: 2448.253+/-0.343 $\chi^2$/NDF:698961.5/41

All: 2433.351+/-0.244 $\chi^2$/NDF: 982078.6/78




Right In: -31.191+/-405.726 $\chi^2$/NDF: 13.8/15

Left Out: 272.861+/-171.832 $\chi^2$/NDF:31.0/22

Right Out: -328.475+/-398.568 $\chi^2$/NDF: 15.6/18

Left In: -81.420+/-178.904 $\chi^2$/NDF:18.7/20

Left: 102.862+/-123.928 $\chi^2$/NDF: 51.7/43

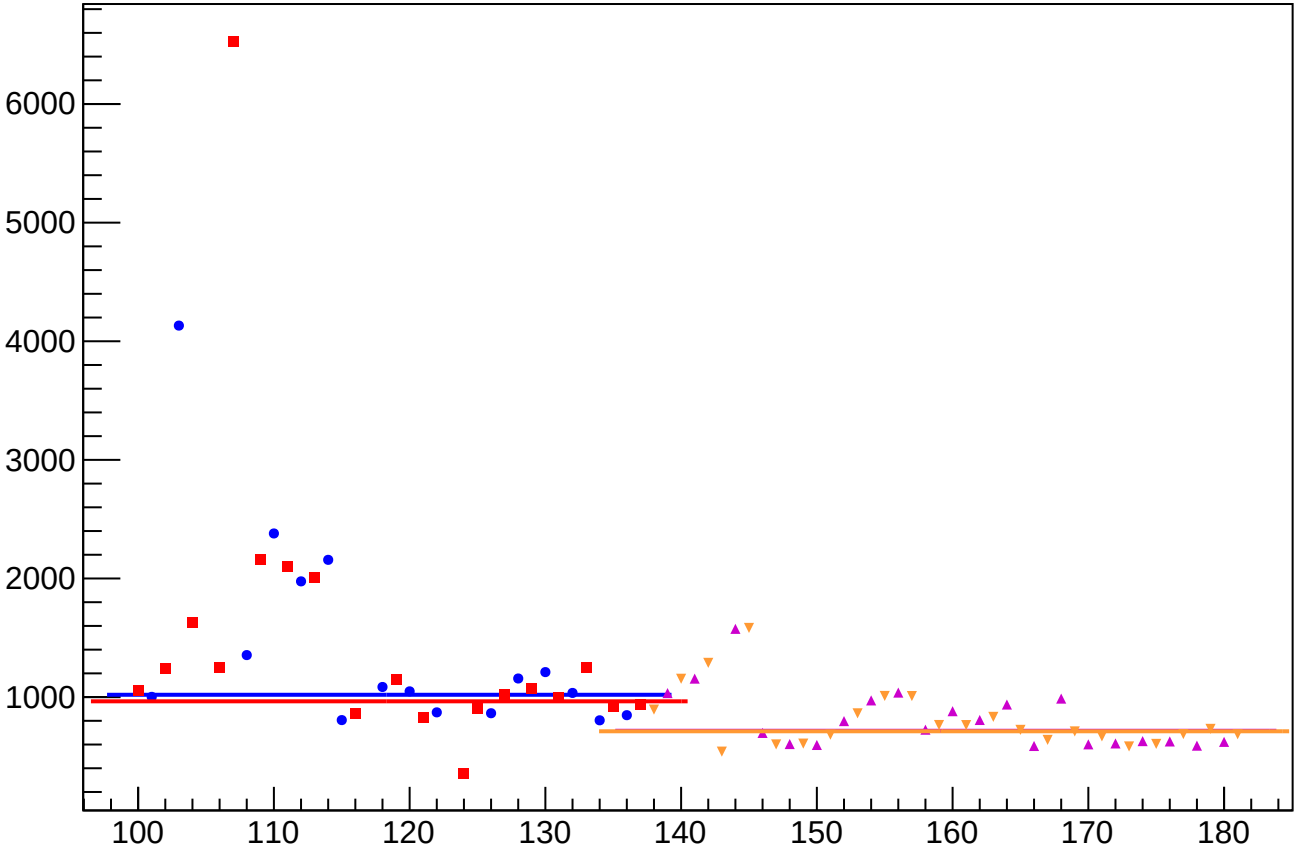
Right: -182.479+/-284.327 $\chi^2$/NDF: 29.7/34

In: -73.243+/-163.697 $\chi^2$/NDF:32.5/36

Out: 178.610+/-157.792 $\chi^2$/NDF:48.5/41

All: 57.307+/-113.606 $\chi^2$/NDF: 82.2/78

# asym_atl1_reg_correction_rms vs Slug, Sign Corrected




Right In: 1019.523+/-0.287 $\chi^2$/NDF: 1364745.9/15

Left Out: 711.756+/-0.122 $\chi^2$/NDF:1758180.9/22

Right Out: 964.379+/-0.282 $\chi^2$/NDF: 2309359.3/18

Left In: 716.010+/-0.127 $\chi^2$/NDF:1964523.6/20

Left: 713.798+/-0.088 $\chi^2$/NDF: 3723292.6/43

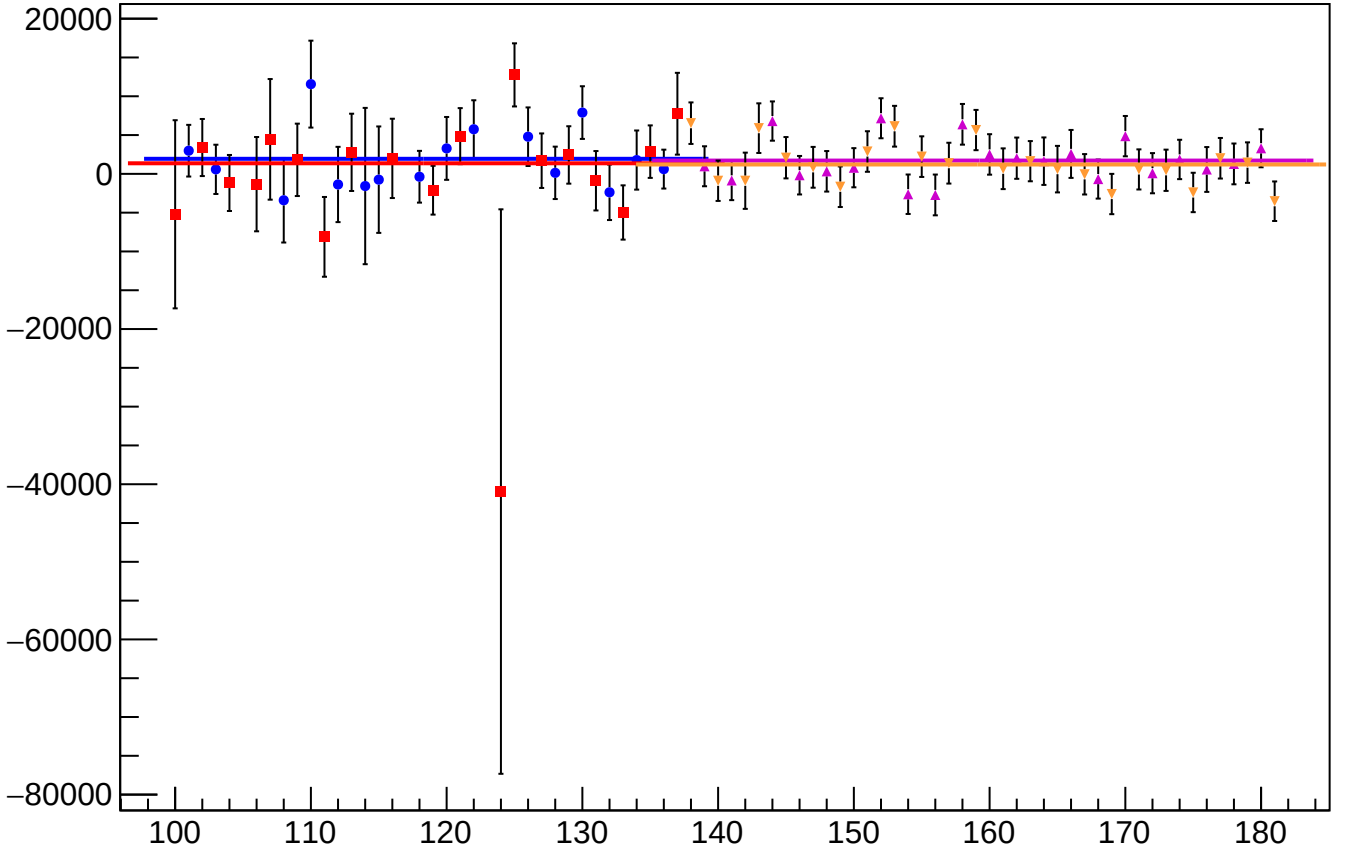
Right: 991.460+/-0.201 $\chi^2$/NDF: 3692906.6/34

In: 765.417+/-0.116 $\chi^2$/NDF:4266302.9/36

Out: 751.351+/-0.112 $\chi^2$/NDF:4745077.6/41

All: 758.126+/-0.080 $\chi^2$/NDF: 9019034.9/78

# cor_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1940.005+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 1209.207+/-557.457 $\chi^2$/NDF:23.6/22

Right Out: 1363.089+/-985.420 $\chi^2$/NDF: 21.7/18

Left In: 1711.926+/-571.248 $\chi^2$/NDF:23.1/20

Left: 1454.425+/-398.968 $\chi^2$/NDF: 47.1/43

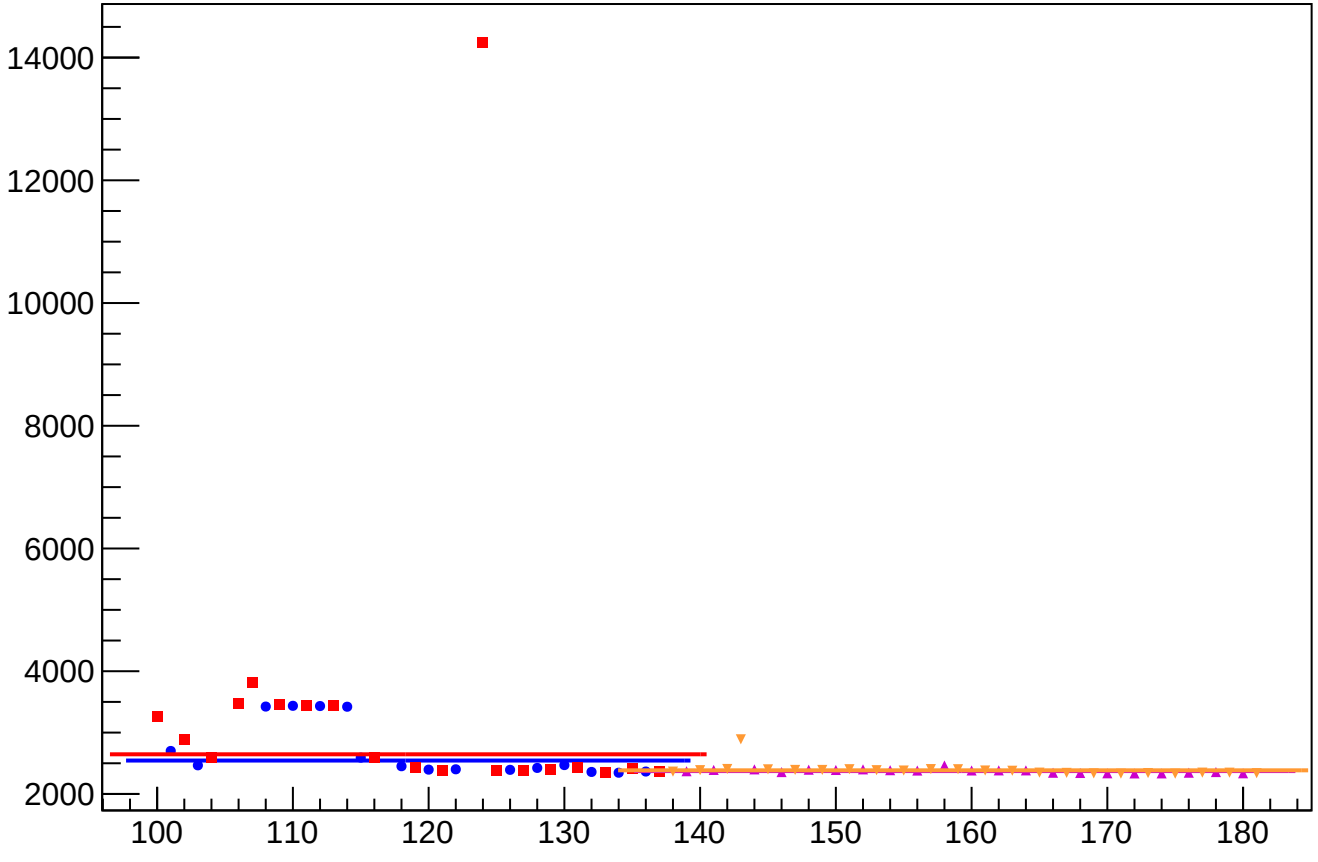
Right: 1661.333+/-684.876 $\chi^2$/NDF: 34.1/34

In: 1772.257+/-489.903 $\chi^2$/NDF:35.4/36

Out: 1246.514+/-485.200 $\chi^2$/NDF:45.3/41

All: 1506.850+/-344.739 $\chi^2$/NDF: 81.3/78

# cor_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2385.044+/-0.394 $\chi^2$/NDF:55981.7/22

Right Out: 2646.203+/-0.697 $\chi^2$/NDF: 539546.8/18

Left In: 2372.748+/-0.404 $\chi^2$/NDF:5915.8/20

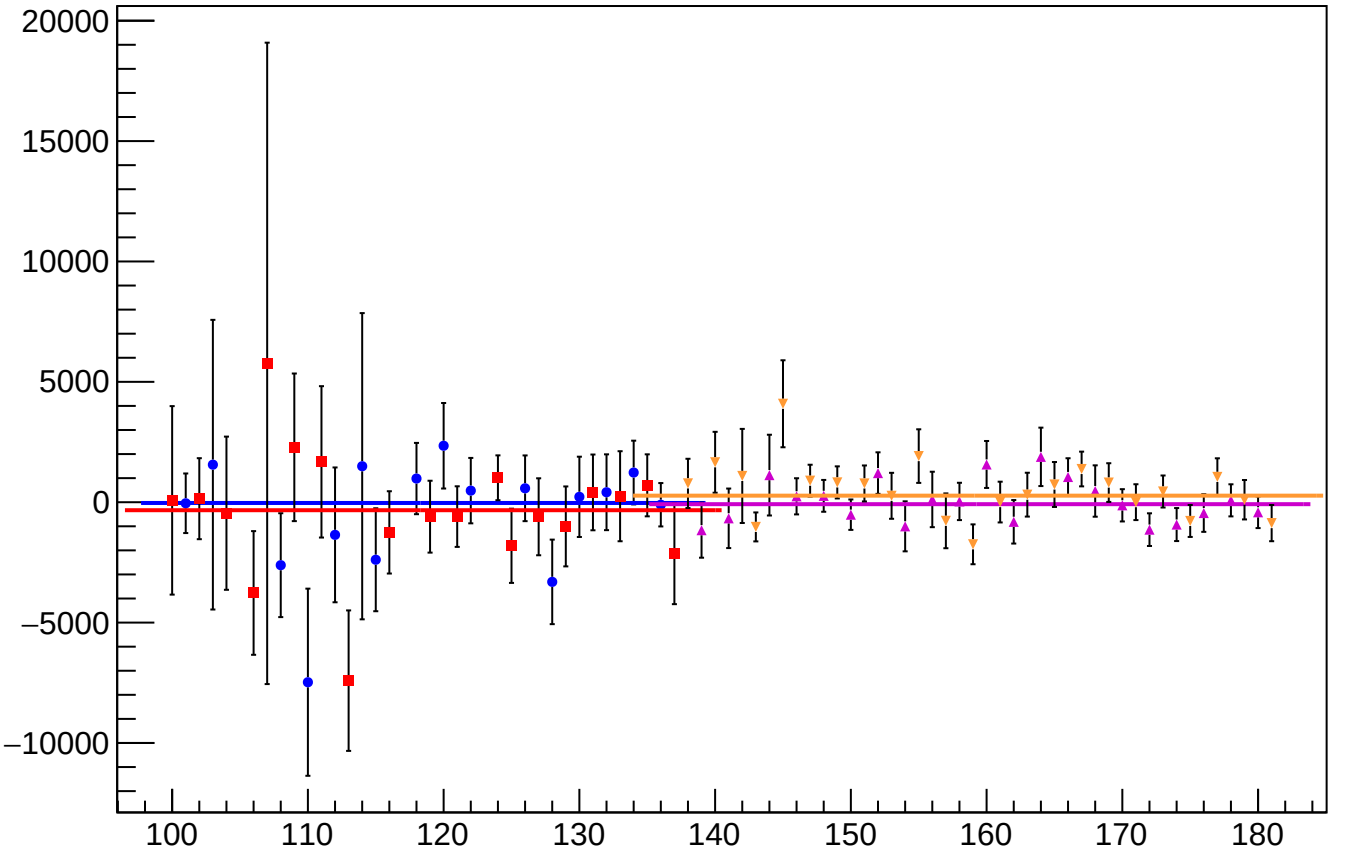
Left: 2379.046+/-0.282 $\chi^2$/NDF: 62372.2/43

Right: 2593.583+/-0.484 $\chi^2$/NDF: 776192.2/34

In: 2418.157+/-0.346 $\chi^2$/NDF:279306.6/36

Out: 2448.359+/-0.343 $\chi^2$/NDF:701946.9/41

All: 2433.404+/-0.244 $\chi^2$/NDF: 985090.6/78




Right In: -31.253+/-405.723 $\chi^2$/NDF: 13.8/15

Left Out: 272.881+/-171.832 $\chi^2$/NDF:31.0/22

Right Out: -331.962+/-399.334 $\chi^2$/NDF: 14.4/18

Left In: -81.264+/-178.904 $\chi^2$/NDF:18.7/20

Left: 102.947+/-123.929 $\chi^2$/NDF: 51.7/43

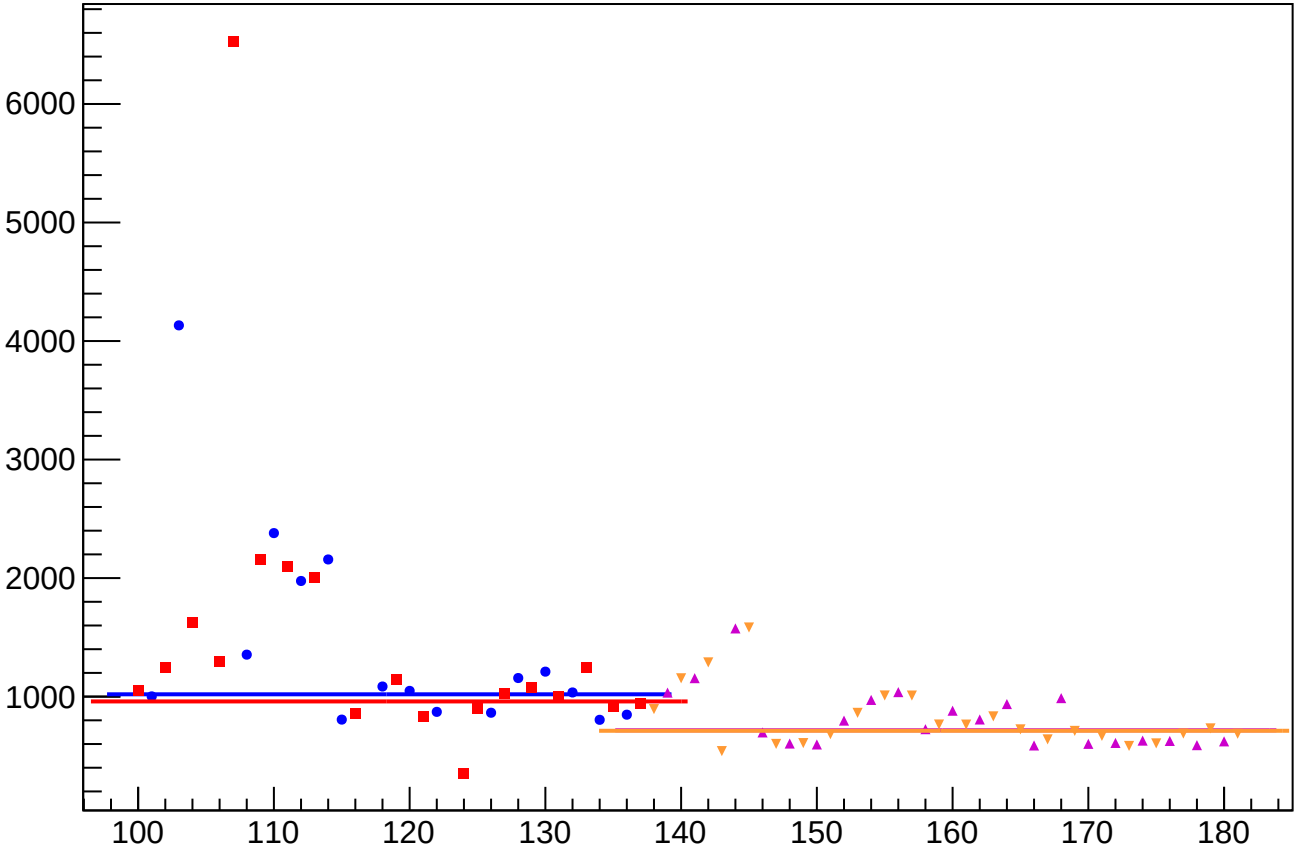
Right: -183.994+/-284.604 $\chi^2$/NDF: 28.5/34

In: -73.123+/-163.696 $\chi^2$/NDF:32.4/36

Out: 178.387+/-157.840 $\chi^2$/NDF:47.3/41

All: 57.212+/-113.624 $\chi^2$/NDF: 81.0/78

# asym_atl1_cor_correction_rms vs Slug, Sign Corrected




Right In: 1019.514+/-0.287 $\chi^2$/NDF: 1364741.0/15

Left Out: 711.759+/-0.122 $\chi^2$/NDF:1758257.9/22

Right Out: 959.344+/-0.282 $\chi^2$/NDF: 2344434.8/18

Left In: 716.008+/-0.127 $\chi^2$/NDF:1964685.4/20

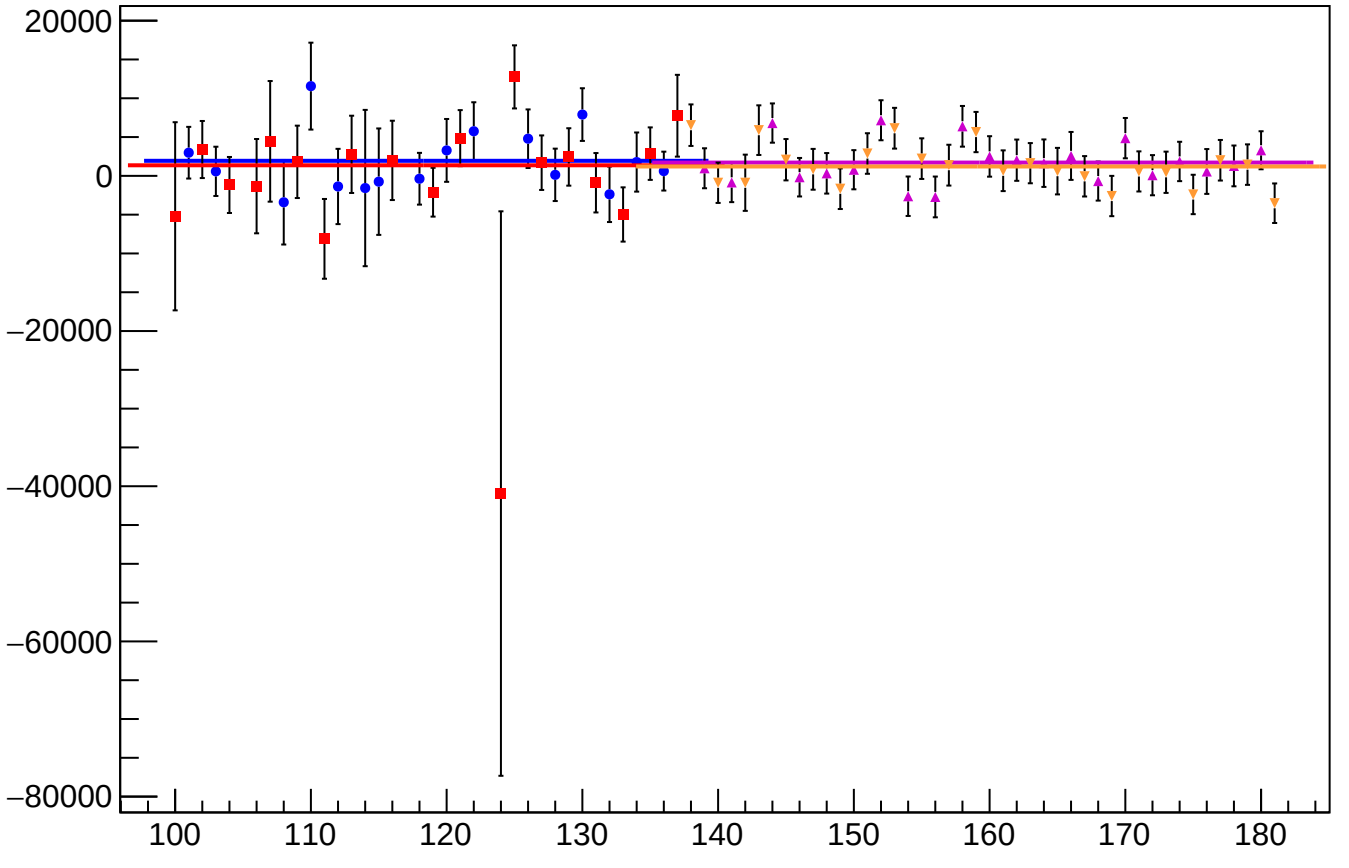
Left: 713.798+/-0.088 $\chi^2$/NDF: 3723530.1/43

Right: 988.952+/-0.201 $\chi^2$/NDF: 3731518.7/34

In: 765.415+/-0.116 $\chi^2$/NDF:4266429.3/36

Out: 750.439+/-0.112 $\chi^2$/NDF:4751373.1/41

All: 757.654+/-0.080 $\chi^2$/NDF: 9026476.8/78




Right In: 1940.005+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 1209.207+/-557.457 $\chi^2$/NDF:23.6/22

Right Out: 1363.089+/-985.420 $\chi^2$/NDF: 21.7/18

Left In: 1711.926+/-571.248 $\chi^2$/NDF:23.1/20

Left: 1454.425+/-398.968 $\chi^2$/NDF: 47.1/43

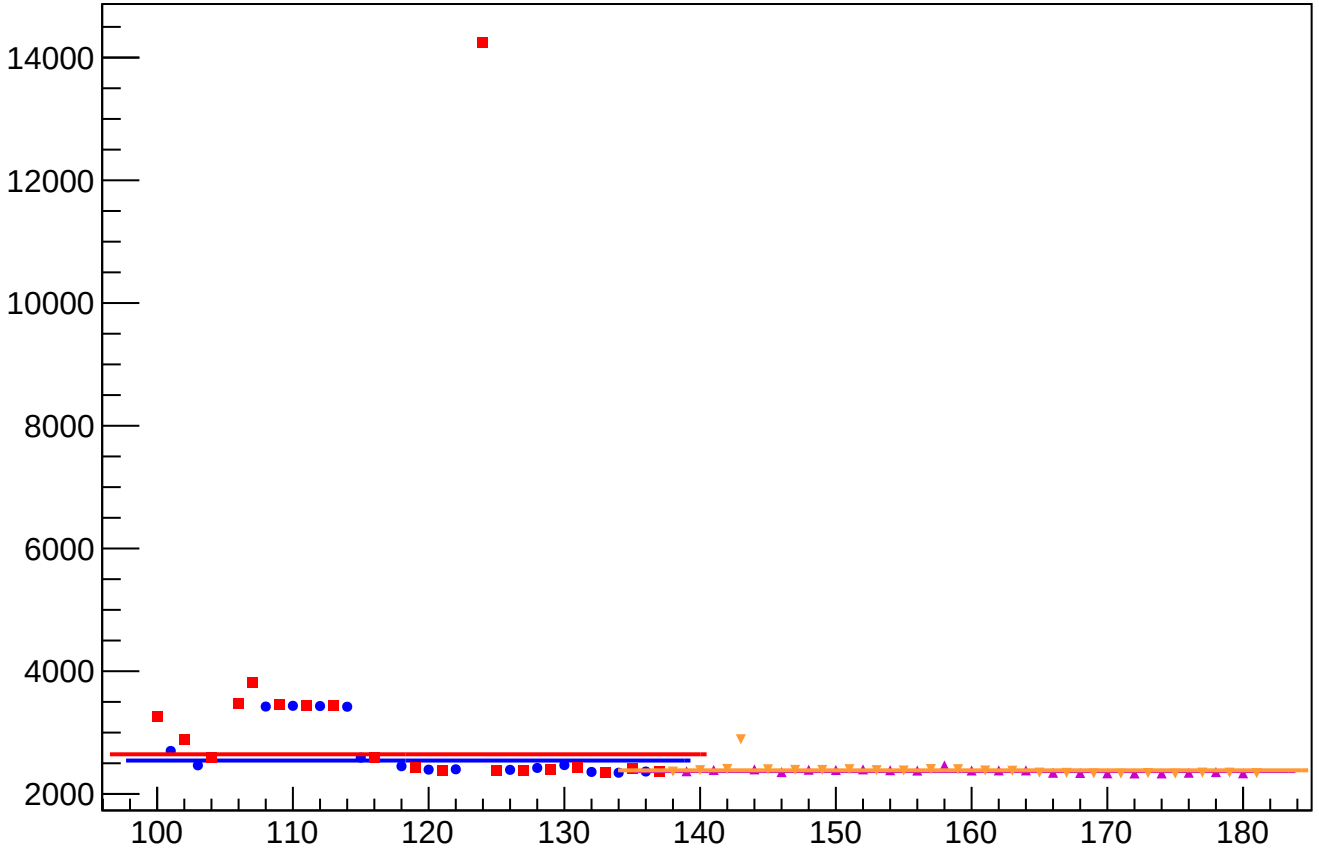
Right: 1661.333+/-684.876 $\chi^2$/NDF: 34.1/34

In: 1772.257+/-489.903 $\chi^2$/NDF:35.4/36

Out: 1246.514+/-485.200 $\chi^2$/NDF:45.3/41

All: 1506.850+/-344.739 $\chi^2$/NDF: 81.3/78

# eigen_cor_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2385.044+/-0.394 $\chi^2$/NDF:55981.7/22

Right Out: 2646.203+/-0.697 $\chi^2$/NDF: 539546.8/18

Left In: 2372.748+/-0.404 $\chi^2$/NDF:5915.8/20

Left: 2379.046+/-0.282 $\chi^2$/NDF: 62372.2/43

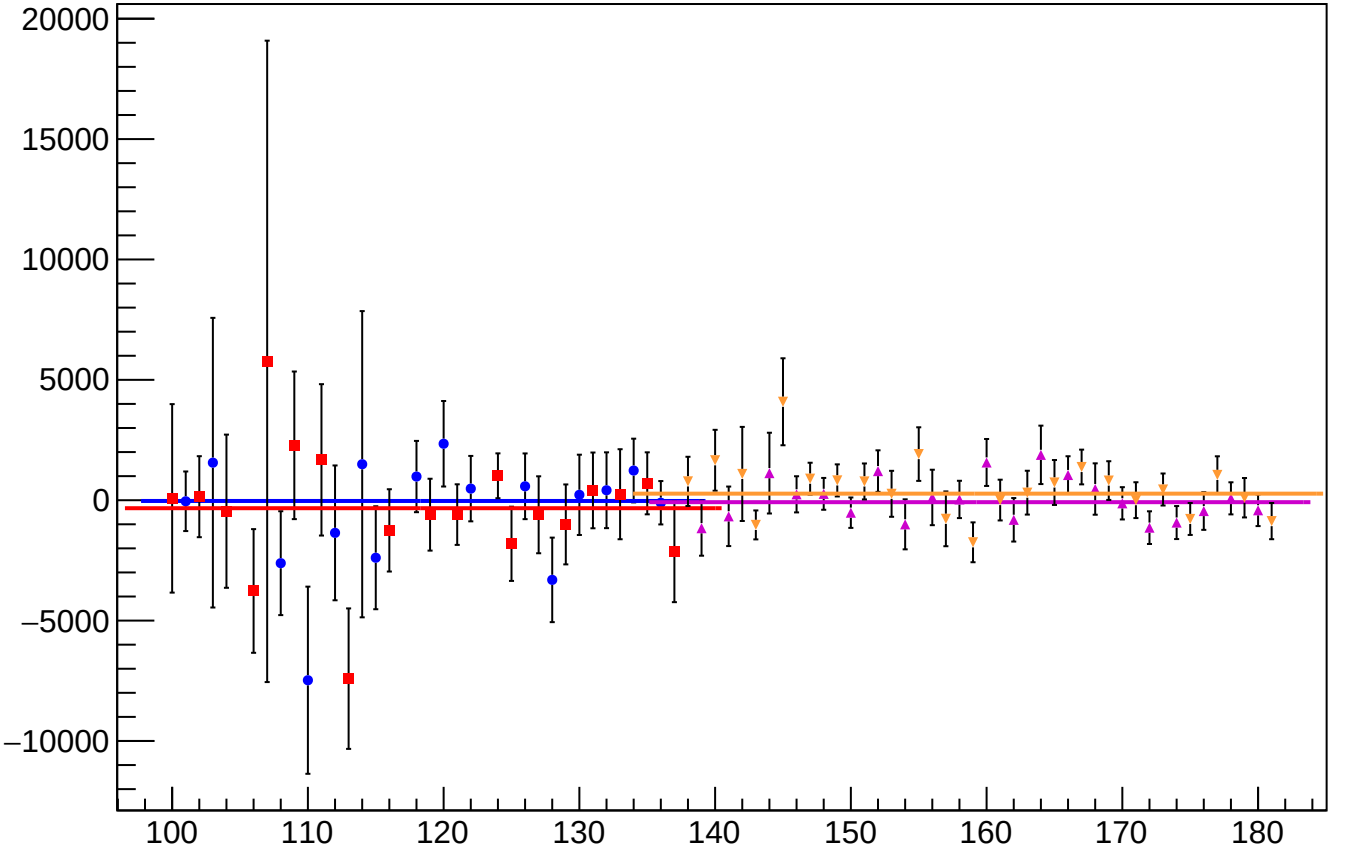
Right: 2593.583+/-0.484 $\chi^2$/NDF: 776192.2/34

In: 2418.157+/-0.346 $\chi^2$/NDF:279306.6/36

Out: 2448.359+/-0.343 $\chi^2$/NDF:701946.9/41

All: 2433.404+/-0.244 $\chi^2$/NDF: 985090.6/78

asym_atl1_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -31.253+/-405.723 $\chi^2$/NDF: 13.8/15

Left Out: 272.881+/-171.832 $\chi^2$/NDF:31.0/22

Right Out: -331.962+/-399.334 $\chi^2$/NDF: 14.4/18

Left In: -81.264+/-178.904 $\chi^2$/NDF:18.7/20

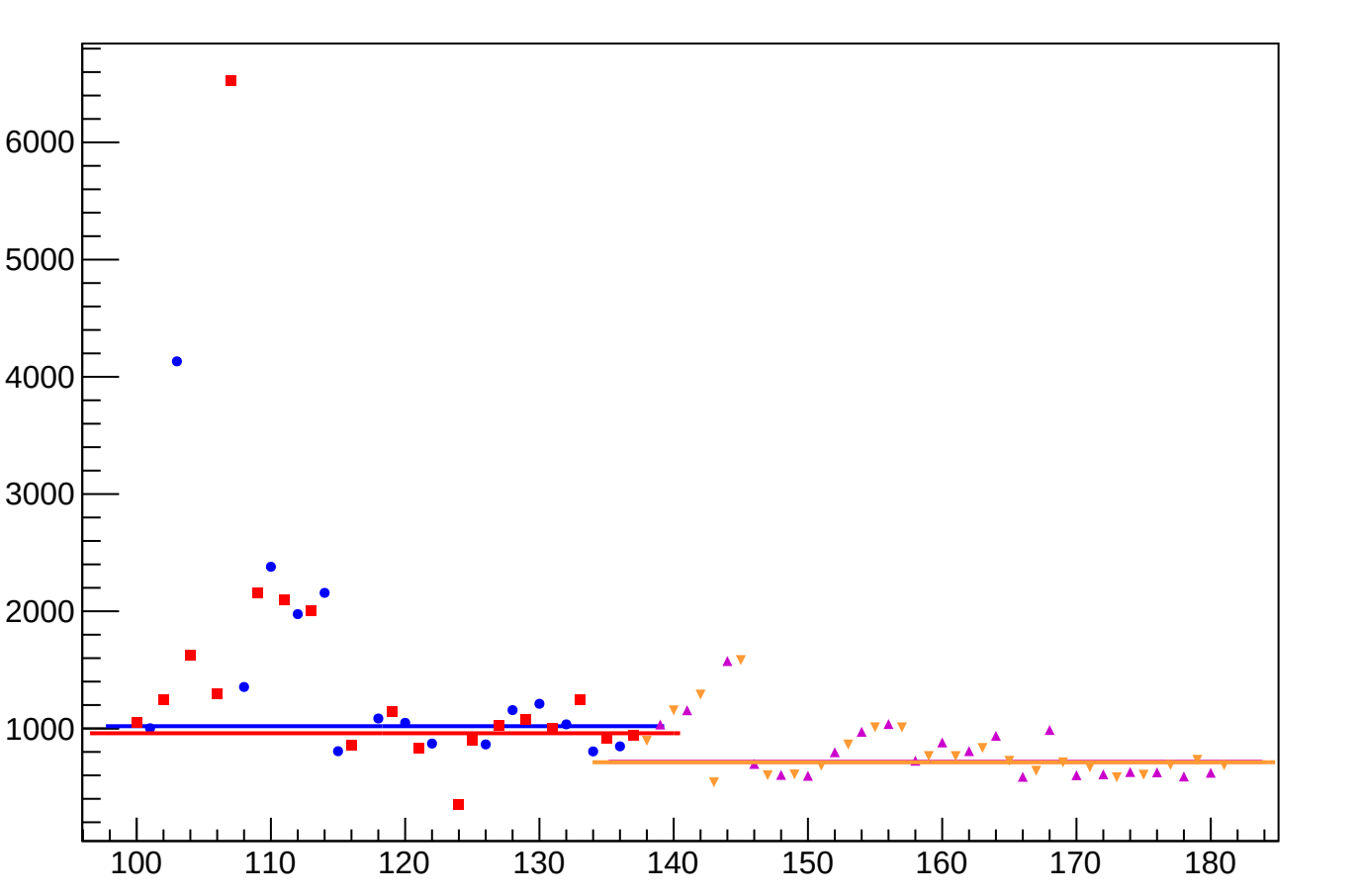
Left: 102.947+/-123.929 $\chi^2$/NDF: 51.7/43

Right: -183.994+/-284.604 $\chi^2$/NDF: 28.5/34

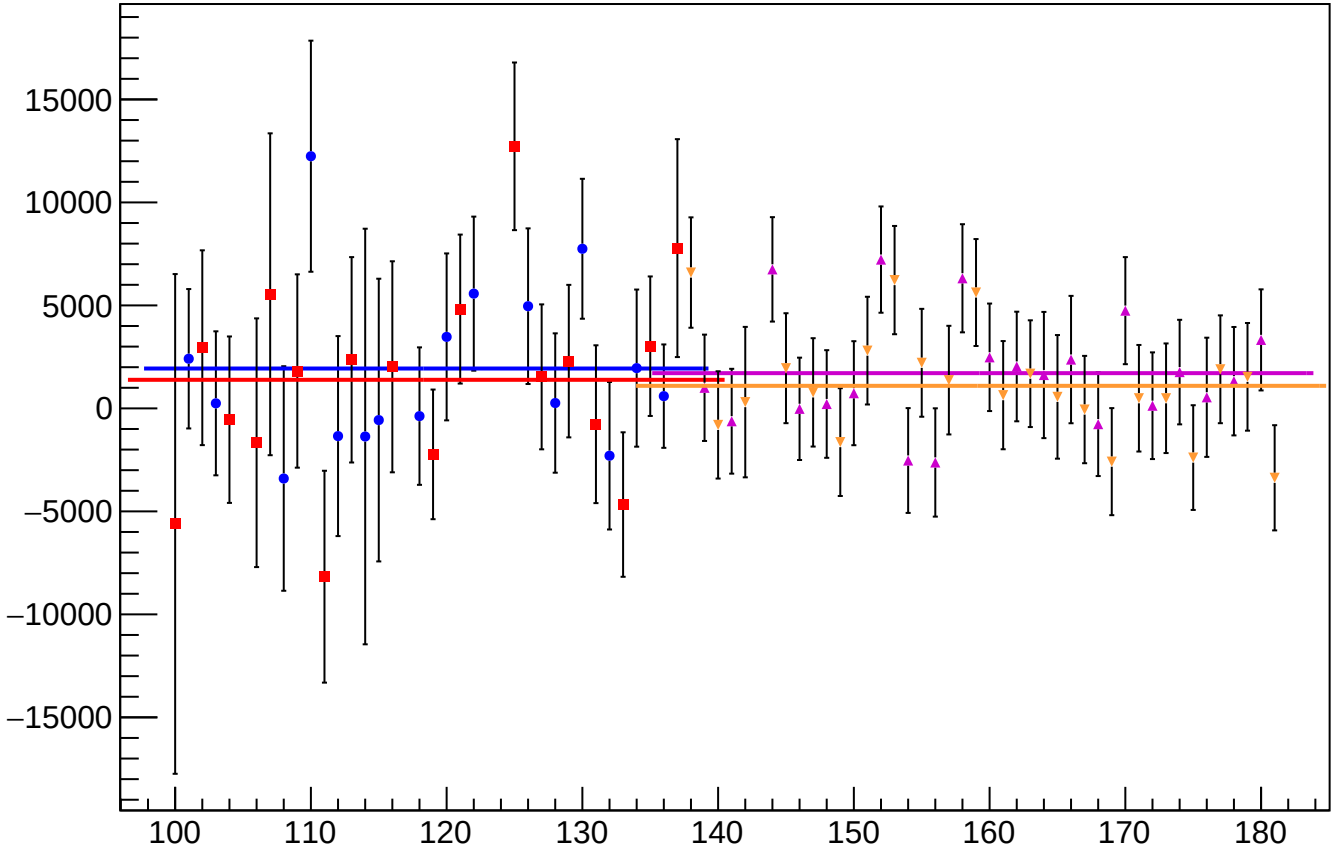
In: -73.123+/-163.696 $\chi^2$/NDF:32.4/36

Out: 178.387+/-157.840 $\chi^2$/NDF:47.3/41

All: 57.212+/-113.624 $\chi^2$/NDF: 81.0/78


asym_atl1_eigen_cor_correction_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
1000
100
110
120
130
140
150
160
170
180
Right In: 1019.514+/-0.287 χ²/NDF: 1364741.0/15
Left Out: 711.759+/-0.122 χ²/NDF:1758257.9/22
Right Out: 959.344+/-0.282 χ²/NDF: 2344434.8/18
Left In: 716.008+/-0.127 χ²/NDF:1964685.4/20
Left: 713.798+/-0.088 χ²/NDF: 3723530.1/43
Right: 988.952+/-0.201 χ²/NDF: 3731518.7/34
In: 765.415+/-0.116 χ²/NDF:4266429.3/36
Out: 750.439+/-0.112 χ²/NDF:4751373.1/41
All: 757.654+/-0.080 χ²/NDF: 9026476.8/78

# dit_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1935.992+/-962.322 $\chi^2$/NDF: 12.4/15

Left Out: 1095.550+/-566.783 $\chi^2$/NDF:21.0/21

Right Out: 1387.548+/-1009.105 $\chi^2$/NDF: 19.8/17

Left In: 1711.026+/-571.777 $\chi^2$/NDF:22.4/20

Left: 1400.589+/-402.530 $\chi^2$/NDF: 44.0/42

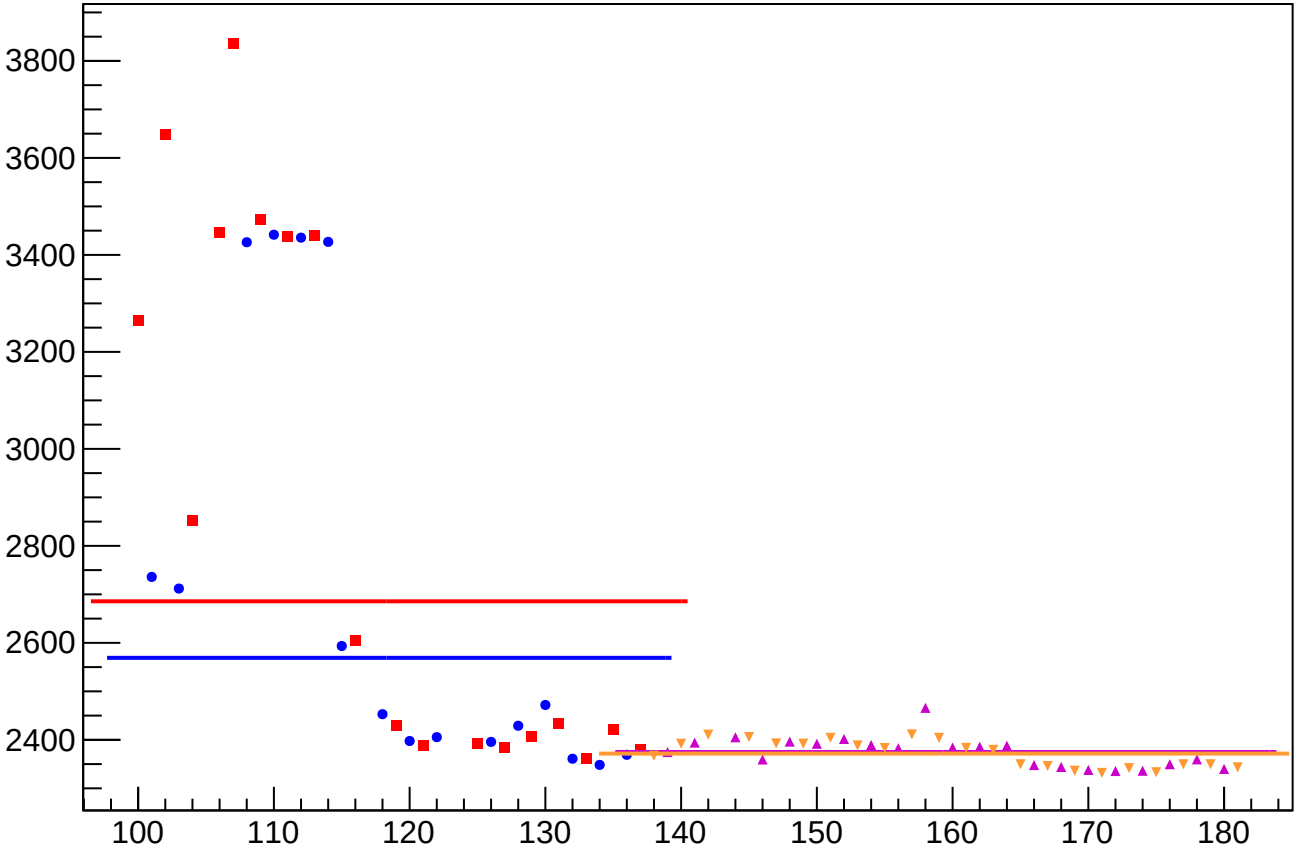
Right: 1674.777+/-696.416 $\chi^2$/NDF: 32.3/33

In: 1769.724+/-491.556 $\chi^2$/NDF:34.8/36

Out: 1165.576+/-494.170 $\chi^2$/NDF:40.8/39

All: 1469.252+/-348.503 $\chi^2$/NDF: 76.4/76

# dit_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2569.130+/-0.680 $\chi^2$/NDF: 229487.5/15

Left Out: 2371.625+/-0.401 $\chi^2$/NDF:4574.8/21

Right Out: 2685.675+/-0.714 $\chi^2$/NDF: 419264.8/17

Left In: 2374.937+/-0.404 $\chi^2$/NDF:5901.0/20

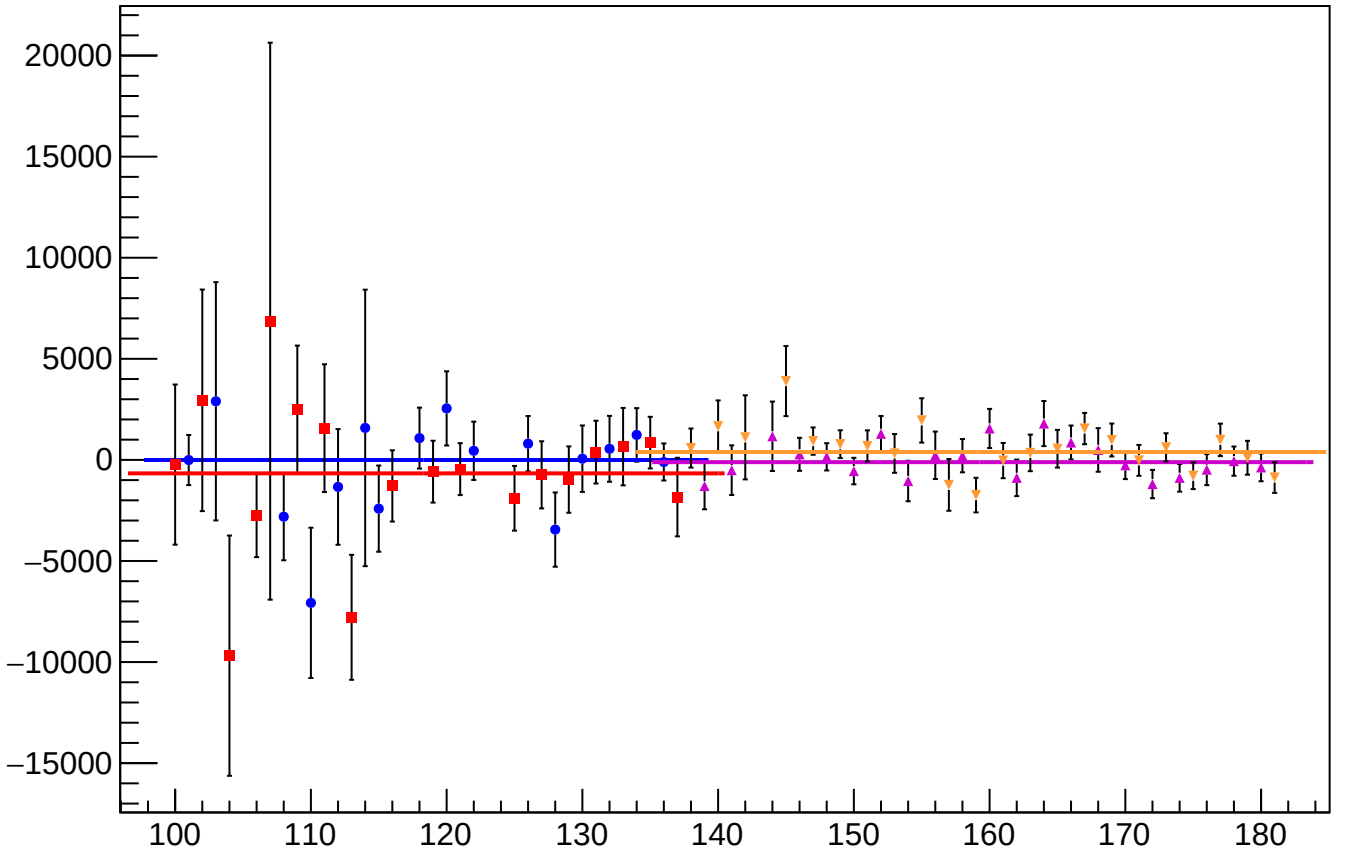
Left: 2373.267+/-0.285 $\chi^2$/NDF: 10509.7/42

Right: 2624.638+/-0.492 $\chi^2$/NDF: 662723.7/33

In: 2425.606+/-0.348 $\chi^2$/NDF:295581.8/36

Out: 2446.940+/-0.349 $\chi^2$/NDF:571095.0/39

All: 2436.216+/-0.246 $\chi^2$/NDF: 868550.5/76




Right In: -5.169+/-412.248 $\chi^2$/NDF: 14.5/15

Left Out: 390.218+/-183.214 $\chi^2$/NDF:26.3/21

Right Out: -665.952+/-460.513 $\chi^2$/NDF: 14.4/17

Left In: -111.094+/-183.464 $\chi^2$/NDF:18.6/20

Left: 139.904+/-129.640 $\chi^2$/NDF: 48.6/42

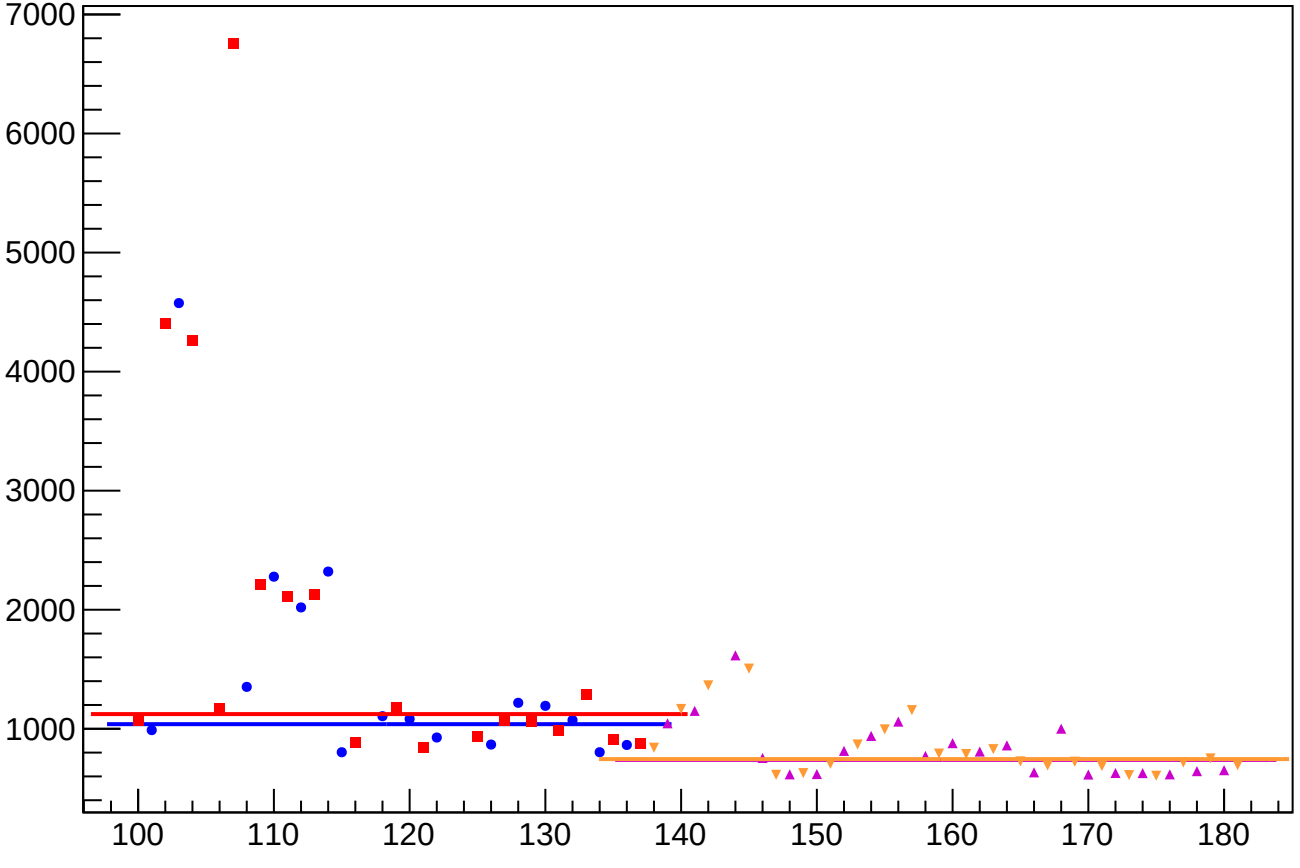
Right: -299.130+/-307.154 $\chi^2$/NDF: 30.0/33

In: -93.583+/-167.615 $\chi^2$/NDF:33.2/36

Out: 245.890+/-170.236 $\chi^2$/NDF:45.2/39

All: 73.520+/-119.437 $\chi^2$/NDF: 80.4/76

# asym_atl1_dit_correction_rms vs Slug, Sign Corrected




Right In: 1038.803+/-0.292 $\chi^2$/NDF: 1539731.1/15

Left Out: 745.227+/-0.130 $\chi^2$/NDF:1510441.4/21

Right Out: 1123.474+/-0.326 $\chi^2$/NDF: 2535511.7/17

Left In: 738.165+/-0.130 $\chi^2$/NDF:1780310.7/20

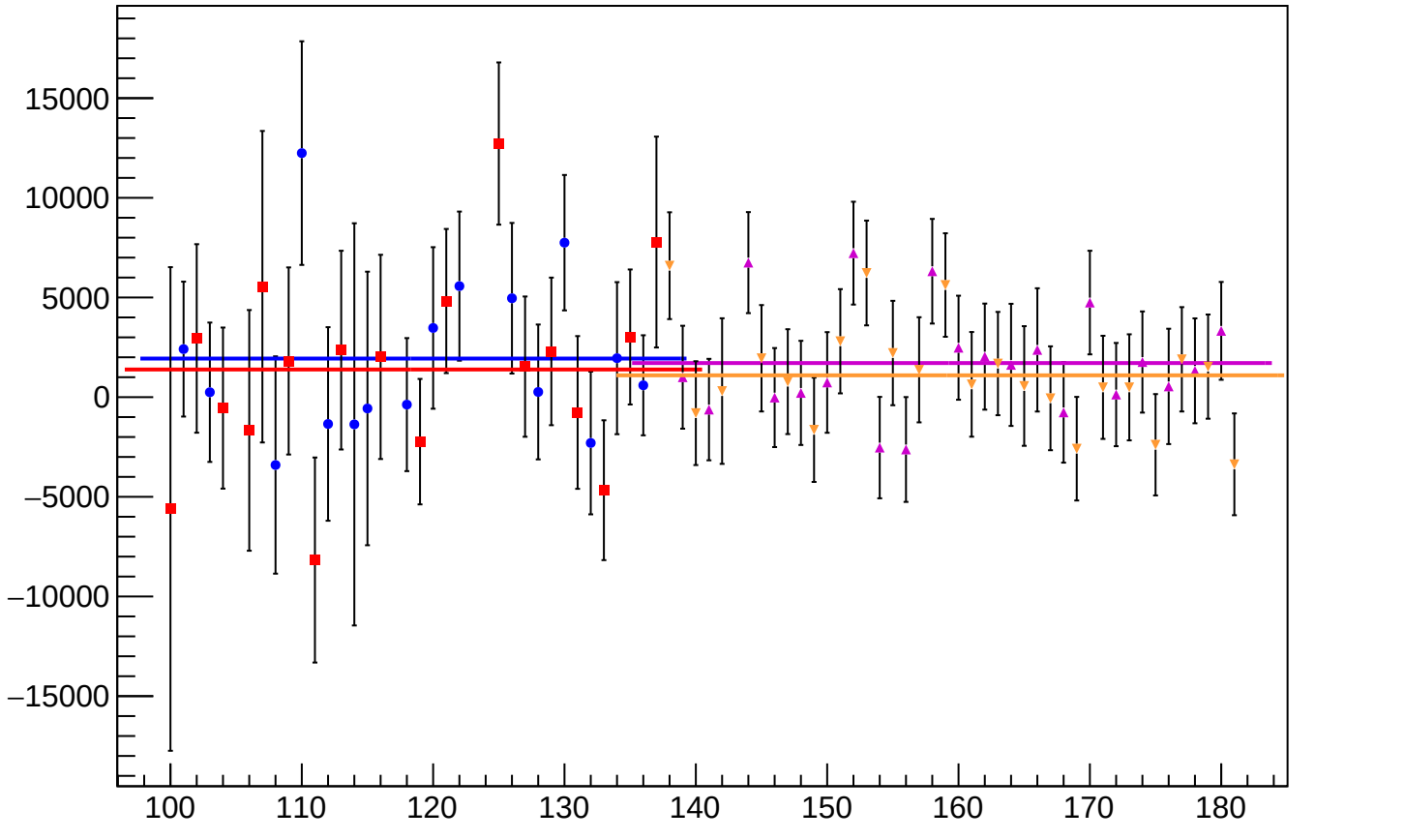
Left: 741.701+/-0.092 $\chi^2$/NDF: 3292235.6/42

Right: 1076.470+/-0.217 $\chi^2$/NDF: 4112776.2/33

In: 787.864+/-0.119 $\chi^2$/NDF:4207860.1/36

Out: 796.915+/-0.120 $\chi^2$/NDF:5210842.3/39

All: 792.320+/-0.084 $\chi^2$/NDF: 9421572.9/76




Right In: 1935.988+/-962.322 $\chi^2$/NDF: 12.4/15

Left Out: 1095.551+/-566.783 $\chi^2$/NDF:21.0/21

Right Out: 1387.545+/-1009.105 $\chi^2$/NDF: 19.8/17

Left In: 1711.027+/-571.777 $\chi^2$/NDF:22.4/20

Left: 1400.589+/-402.530 $\chi^2$/NDF: 44.0/42

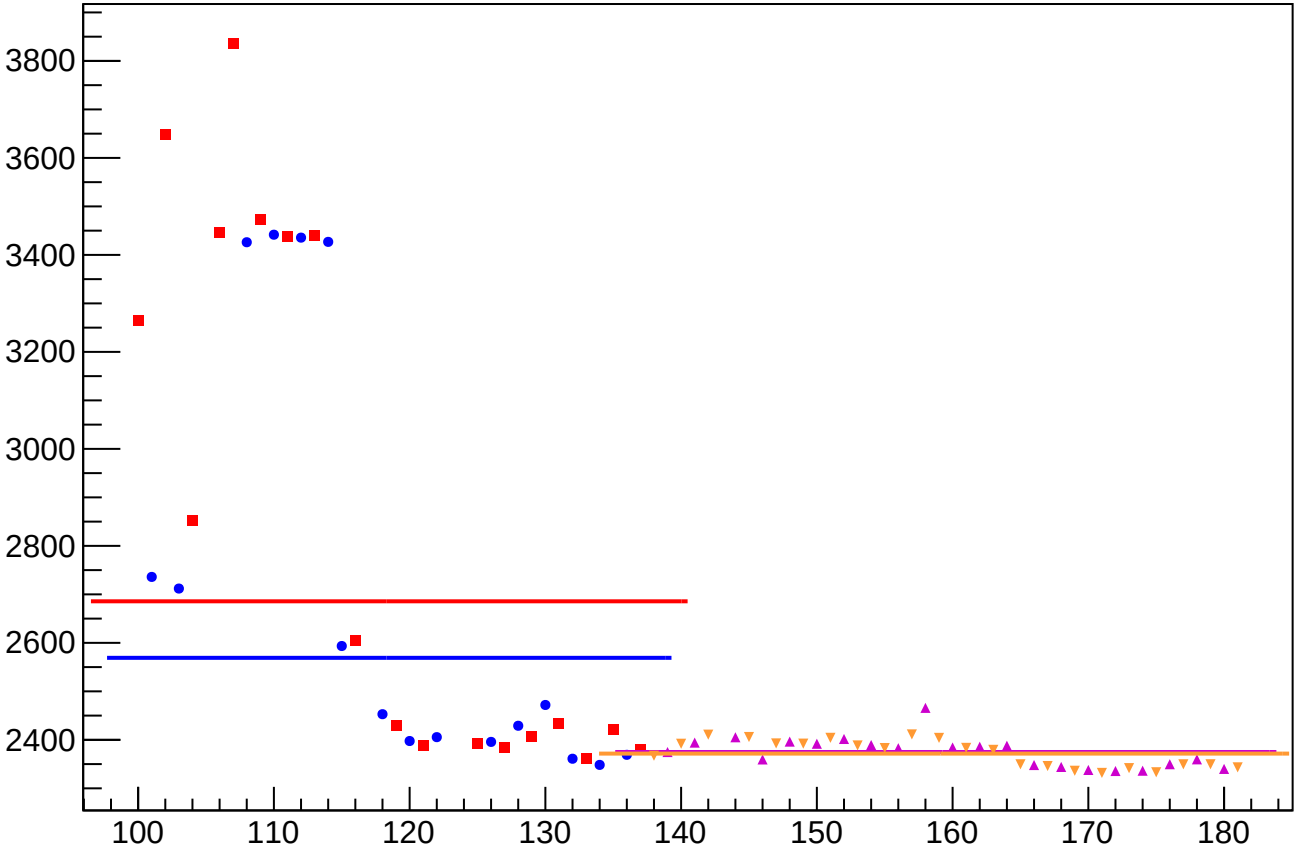
Right: 1674.774+/-696.416 $\chi^2$/NDF: 32.3/33

In: 1769.723+/-491.556 $\chi^2$/NDF:34.8/36

Out: 1165.576+/-494.170 $\chi^2$/NDF:40.8/39

All: 1469.252+/-348.503 $\chi^2$/NDF: 76.4/76

# eigen_dit_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2569.130+/-0.680 $\chi^2$/NDF: 229487.3/15

Left Out: 2371.625+/-0.401 $\chi^2$/NDF:4574.8/21

Right Out: 2685.674+/-0.714 $\chi^2$/NDF: 419264.2/17

Left In: 2374.937+/-0.404 $\chi^2$/NDF:5901.0/20

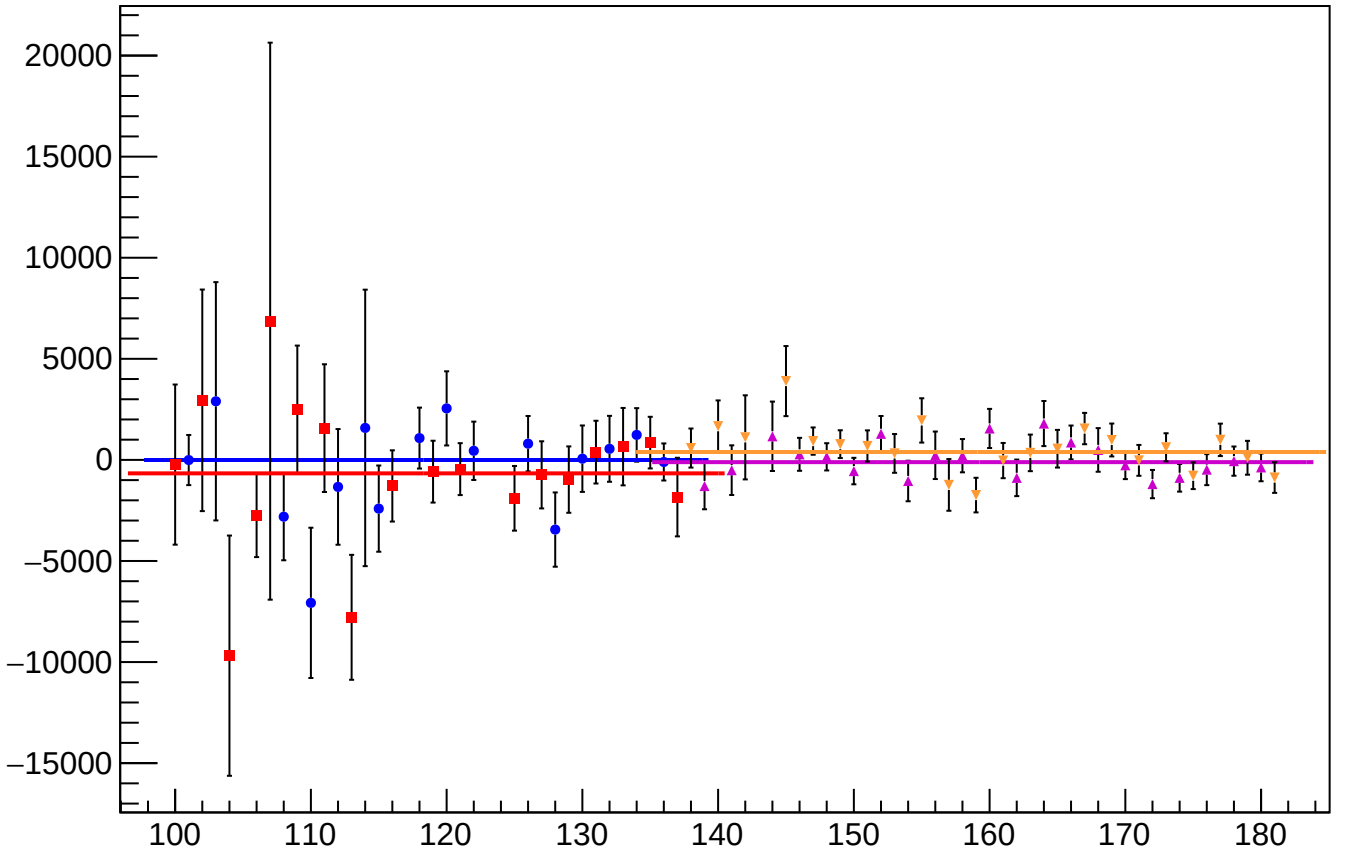
Left: 2373.267+/-0.285 $\chi^2$/NDF: 10509.7/42

Right: 2624.638+/-0.492 $\chi^2$/NDF: 662722.8/33

In: 2425.606+/-0.348 $\chi^2$/NDF:295581.3/36

Out: 2446.939+/-0.349 $\chi^2$/NDF:571094.1/39

All: 2436.216+/-0.246 $\chi^2$/NDF: 868549.0/76




Right In: -5.172+/-412.248 $\chi^2$/NDF: 14.5/15

Left Out: 390.218+/-183.214 $\chi^2$/NDF:26.3/21

Right Out: -665.953+/-460.513 $\chi^2$/NDF: 14.4/17

Left In: -111.094+/-183.464 $\chi^2$/NDF:18.6/20

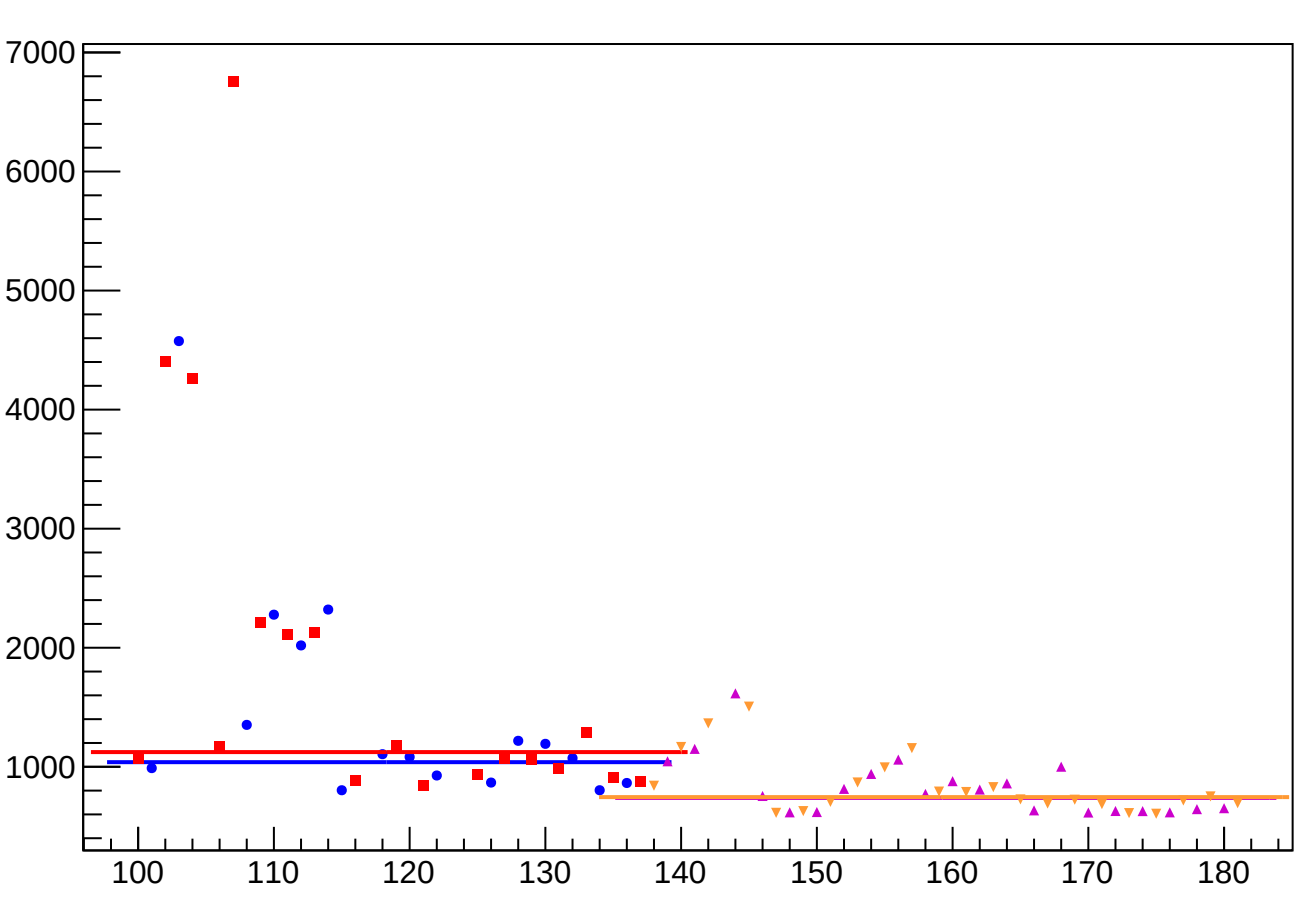
Left: 139.904+/-129.640 $\chi^2$/NDF: 48.6/42

Right: -299.132+/-307.154 $\chi^2$/NDF: 30.0/33

In: -93.583+/-167.615 $\chi^2$/NDF:33.2/36

Out: 245.889+/-170.236 $\chi^2$/NDF:45.2/39

All: 73.519+/-119.438 $\chi^2$/NDF: 80.4/76




Right In: 1038.804+/-0.292 $\chi^2$/NDF: 1539724.8/15

Left Out: 745.228+/-0.130 $\chi^2$/NDF:1510439.6/21

Right Out: 1123.474+/-0.326 $\chi^2$/NDF: 2535509.9/17

Left In: 738.166+/-0.130 $\chi^2$/NDF:1780307.4/20

Left: 741.702+/-0.092 $\chi^2$/NDF: 3292230.6/42

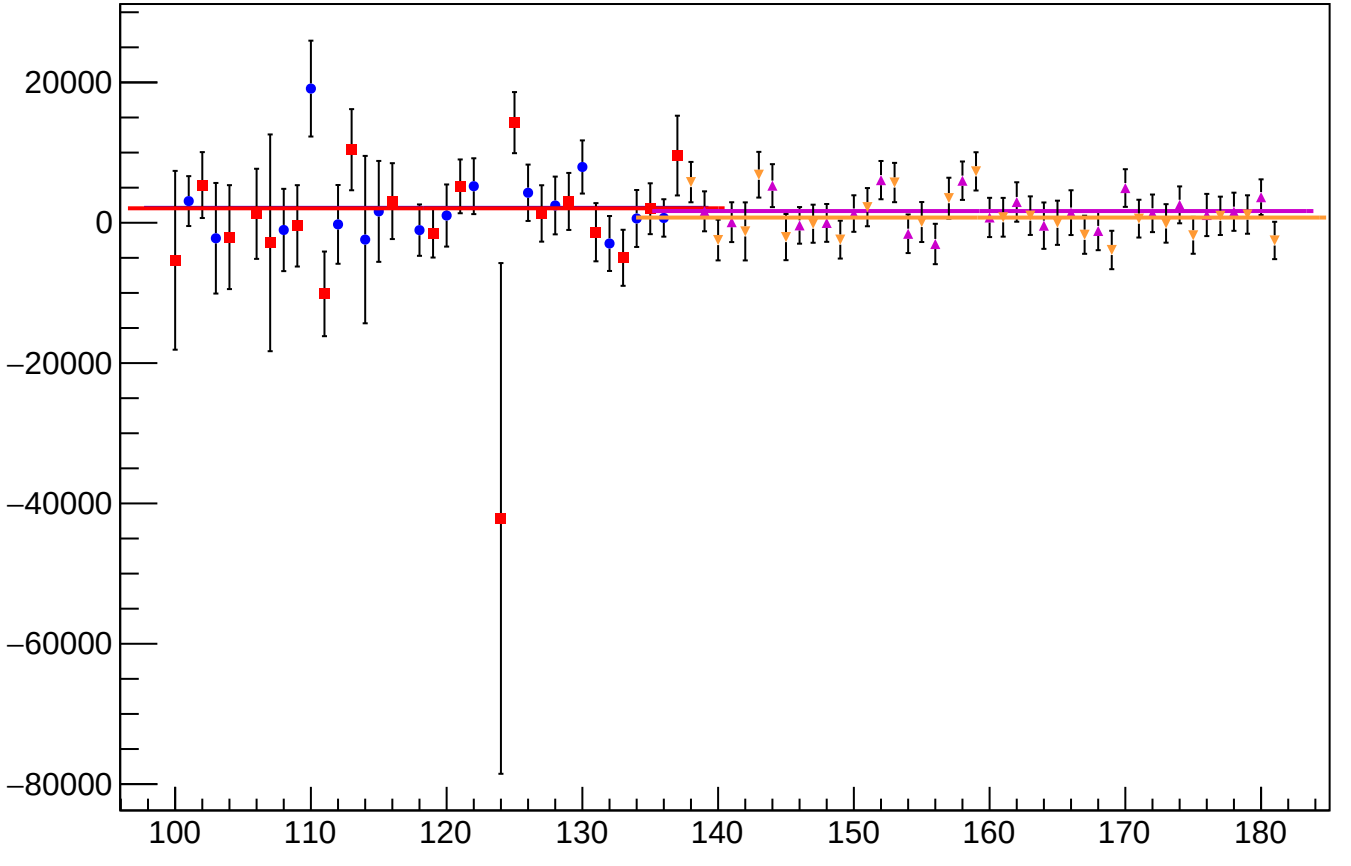
Right: 1076.471+/-0.217 $\chi^2$/NDF: 4112767.4/33

In: 787.866+/-0.119 $\chi^2$/NDF:4207844.9/36

Out: 796.917+/-0.120 $\chi^2$/NDF:5210829.6/39

All: 792.321+/-0.084 $\chi^2$/NDF: 9421545.0/76

# asym_atl1_mean vs Slug, Sign Corrected




Right In: 2121.991+/-1084.700 $\chi^2$/NDF: 13.4/15

Left Out: 740.745+/-592.083 $\chi^2$/NDF:26.8/22

Right Out: 2059.741+/-1136.807 $\chi^2$/NDF: 24.3/18

Left In: 1668.132+/-607.796 $\chi^2$/NDF:15.9/20

Left: 1192.296+/-424.112 $\chi^2$/NDF: 43.9/43

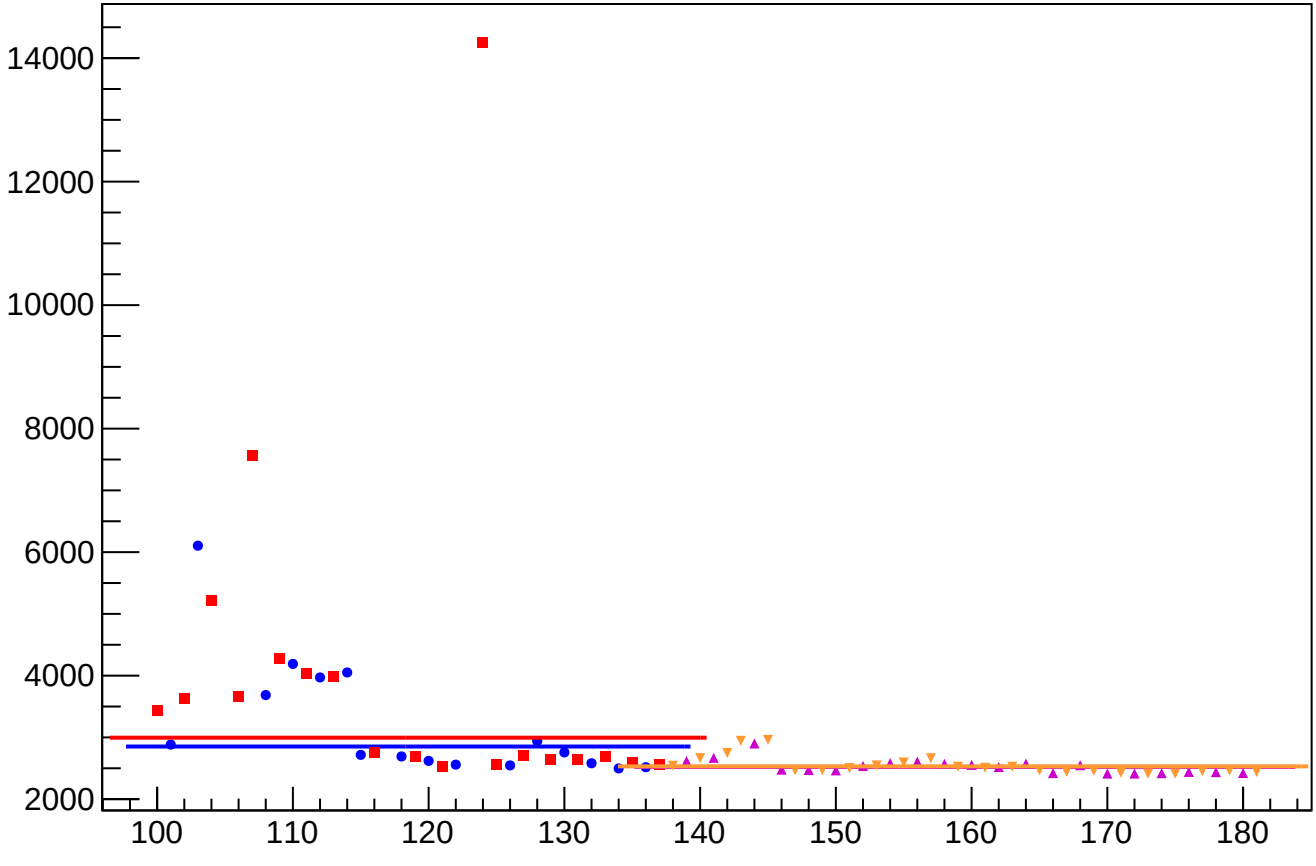
Right: 2092.326+/-784.773 $\chi^2$/NDF: 37.7/34

In: 1776.582+/-530.230 $\chi^2$/NDF:29.4/36

Out: 1022.194+/-525.127 $\chi^2$/NDF:52.1/41

All: 1395.741+/-373.112 $\chi^2$/NDF: 82.6/78

# asym_atl1_rms vs Slug, Sign Corrected




Right In: 2852.206+/-0.767 $\chi^2$/NDF: 648715.2/15

Left Out: 2531.009+/-0.419 $\chi^2$/NDF:103151.3/22

Right Out: 2995.525+/-0.804 $\chi^2$/NDF: 979168.6/18

Left In: 2521.990+/-0.430 $\chi^2$/NDF:62605.2/20

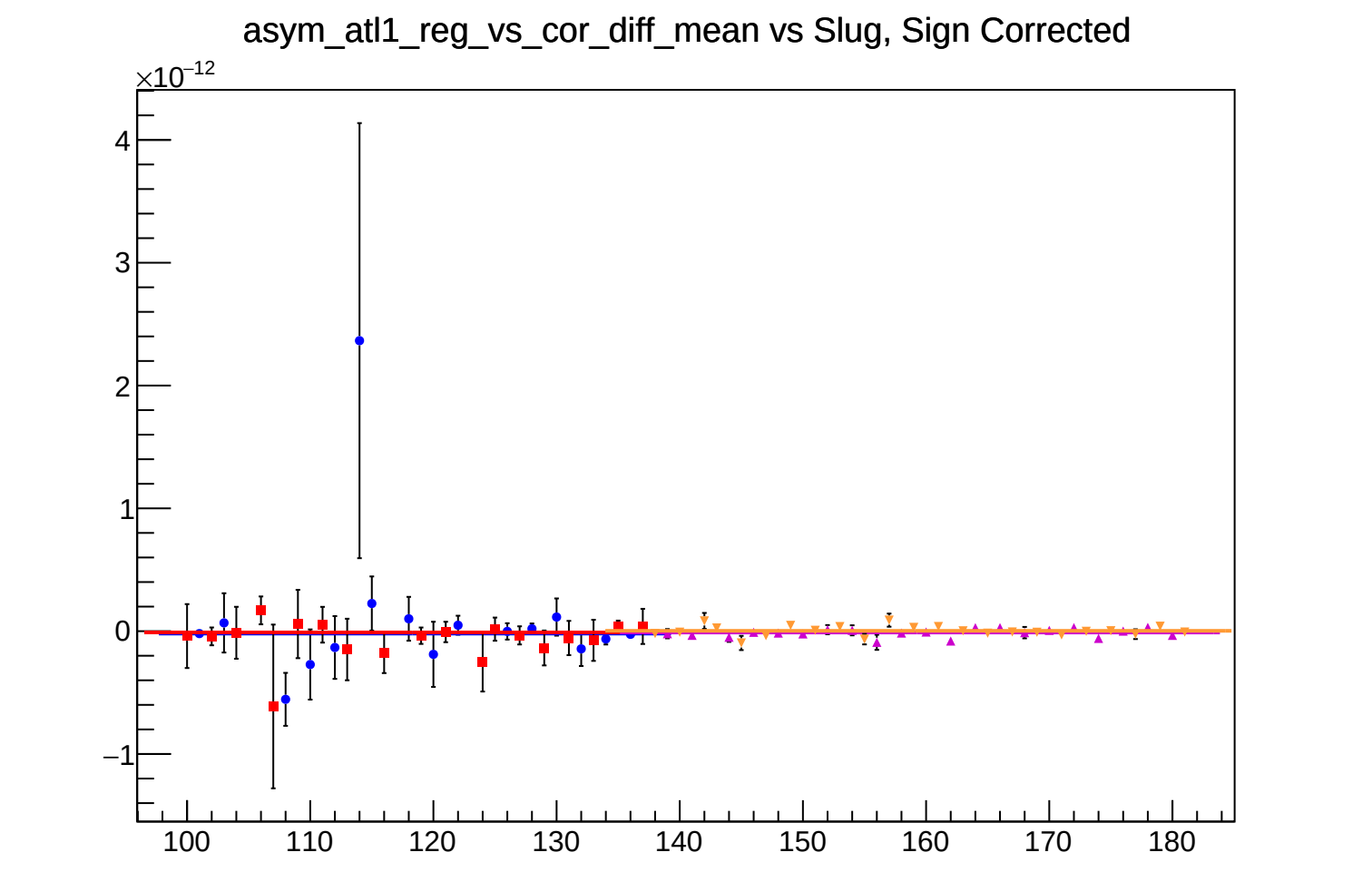
Left: 2526.617+/-0.300 $\chi^2$/NDF: 165982.5/43

Right: 2920.506+/-0.555 $\chi^2$/NDF: 1644523.2/34

In: 2600.895+/-0.375 $\chi^2$/NDF:852385.7/36

Out: 2630.128+/-0.371 $\chi^2$/NDF:1344997.4/41

All: 2615.653+/-0.264 $\chi^2$/NDF: 2200452.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:27.1/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 8.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:31.1/20

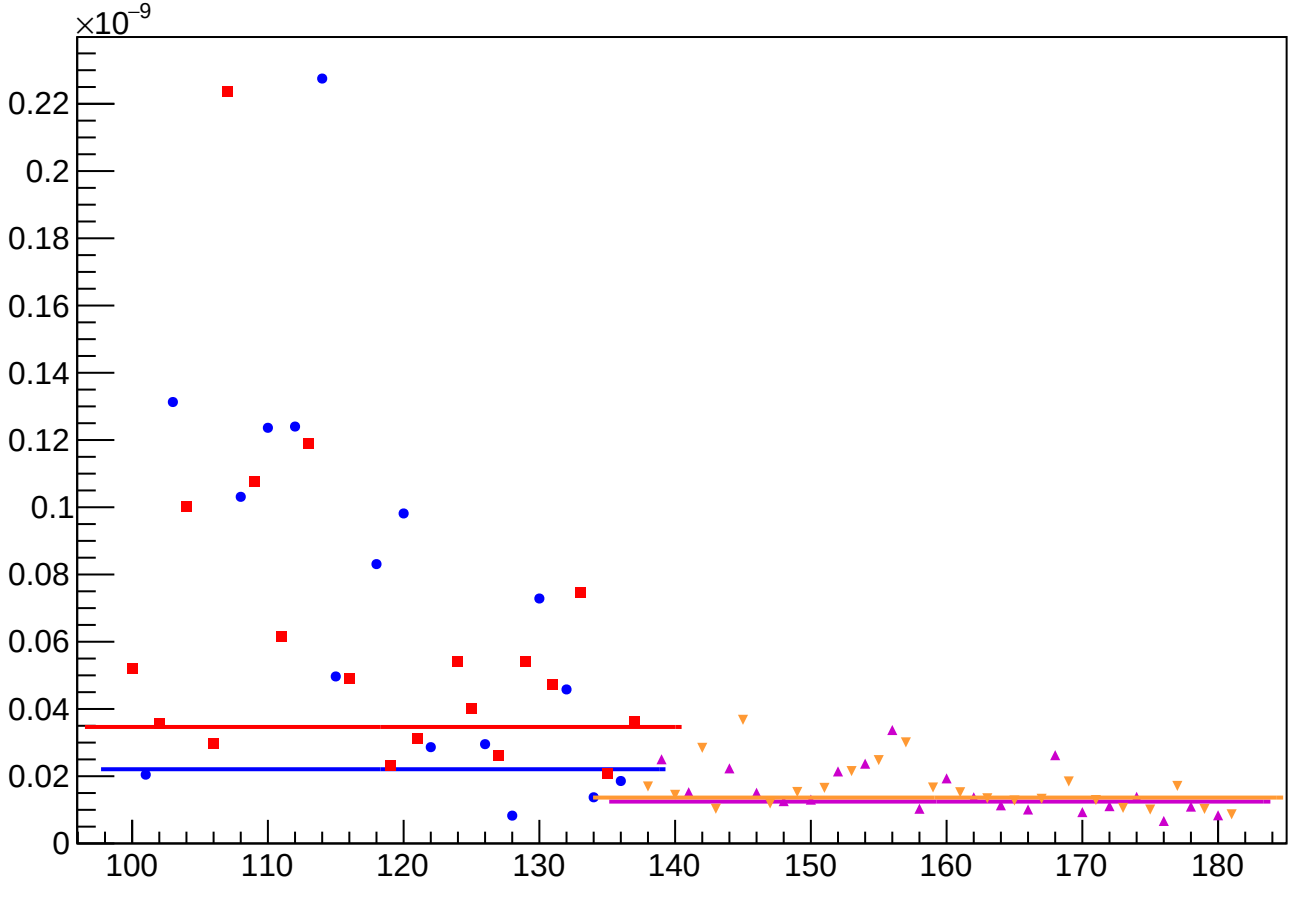
Left: -0.000+/-0.000 $\chi^2$/NDF: 61.4/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 23.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:46.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:35.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 86.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2344133.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1349553.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1242991.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1662177.5/20

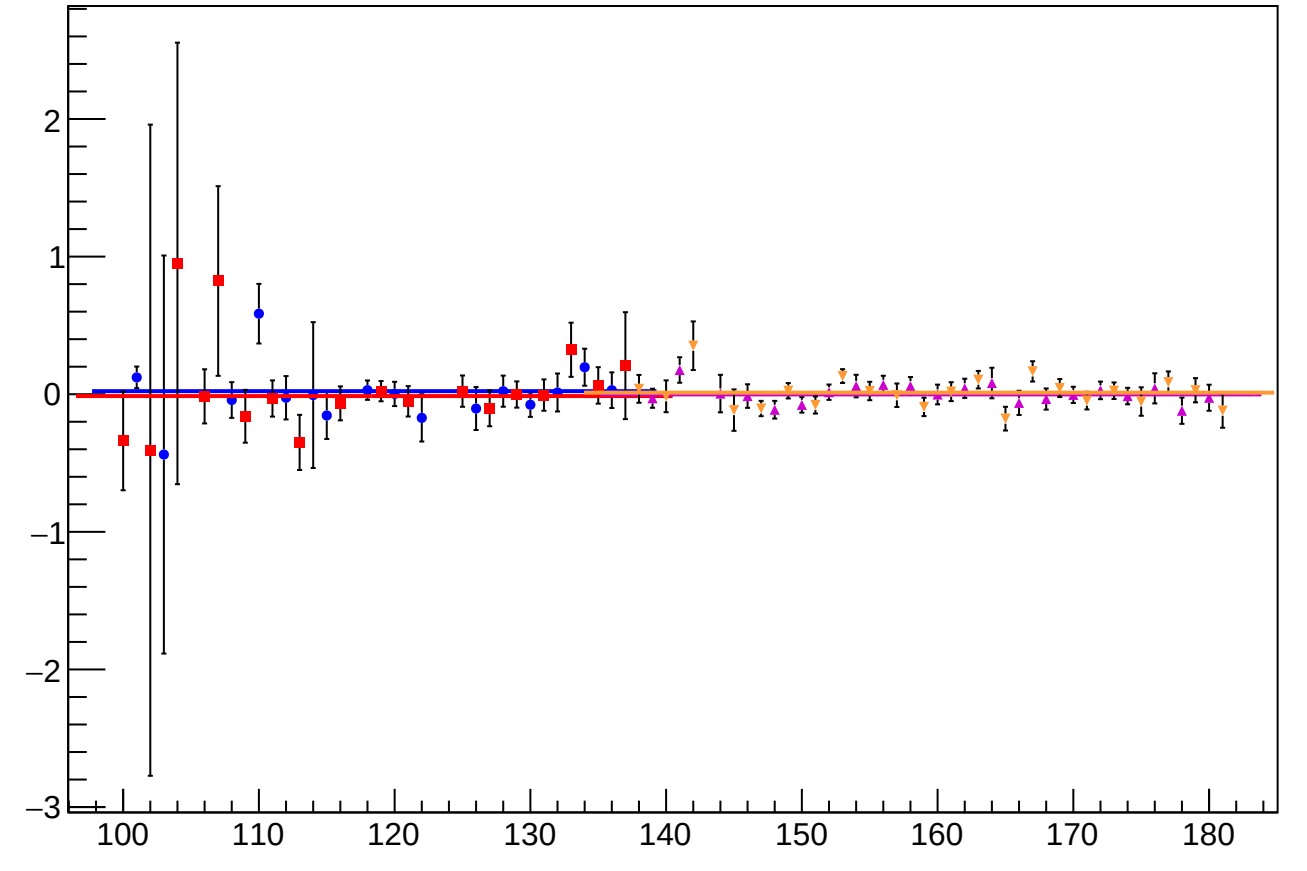
Left: 0.000+/-0.000 $\chi^2$/NDF: 3059967.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3942150.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:4579028.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4000639.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8640912.5/78




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: 0.012+/-0.016 $\chi^2$/NDF:34.3/21

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: -0.001+/-0.016 $\chi^2$/NDF:14.9/20

Left: 0.005+/-0.011 $\chi^2$/NDF: 49.5/42

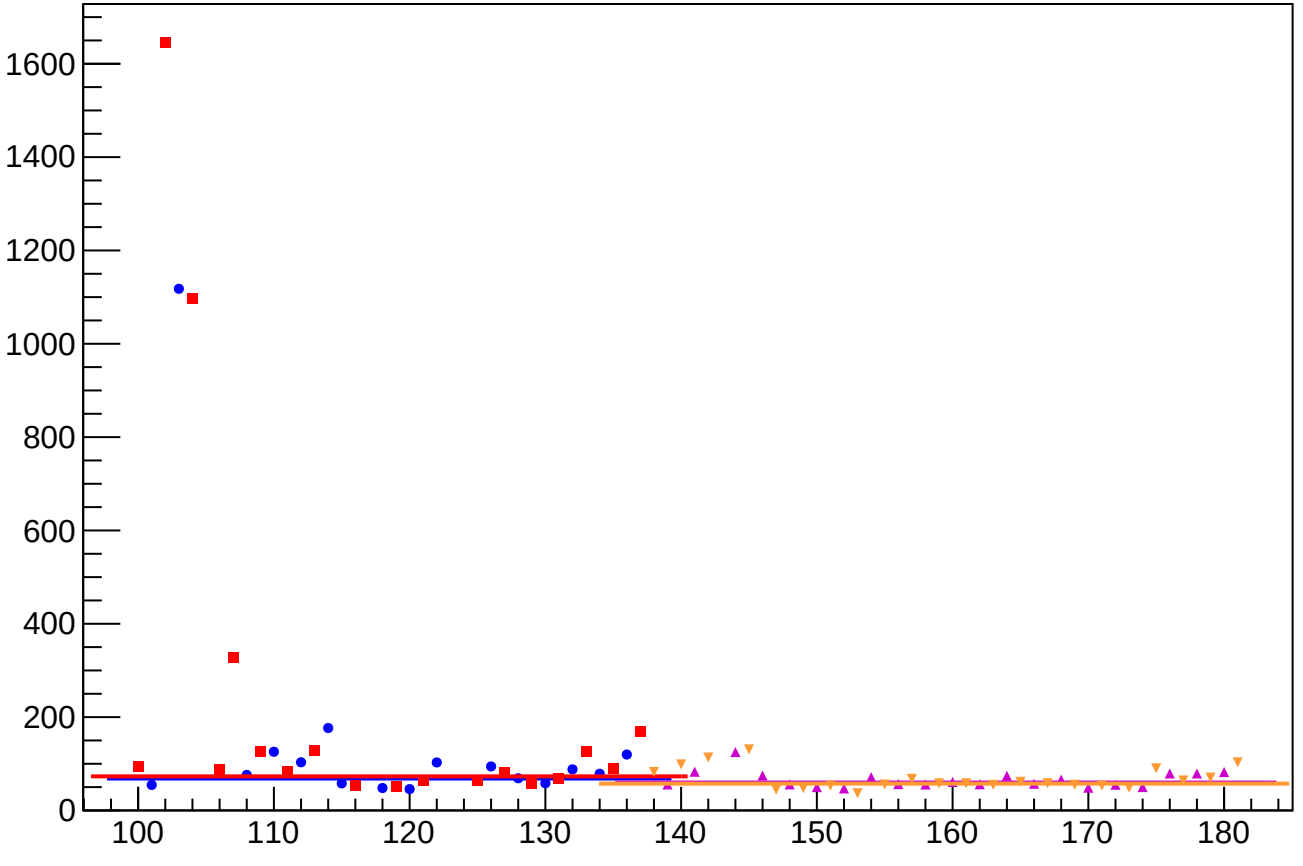
Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: 0.004+/-0.014 $\chi^2$/NDF:30.2/36

Out: 0.007+/-0.014 $\chi^2$/NDF:45.5/39

All: 0.005+/-0.010 $\chi^2$/NDF: 75.7/76

# asym_atl1_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 68.429+/-0.021 $\chi^2$/NDF: 2278083.9/15

Left Out: 57.494+/-0.011 $\chi^2$/NDF:2182477.7/21

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913147.6/17

Left In: 59.823+/-0.011 $\chi^2$/NDF:1327272.1/20

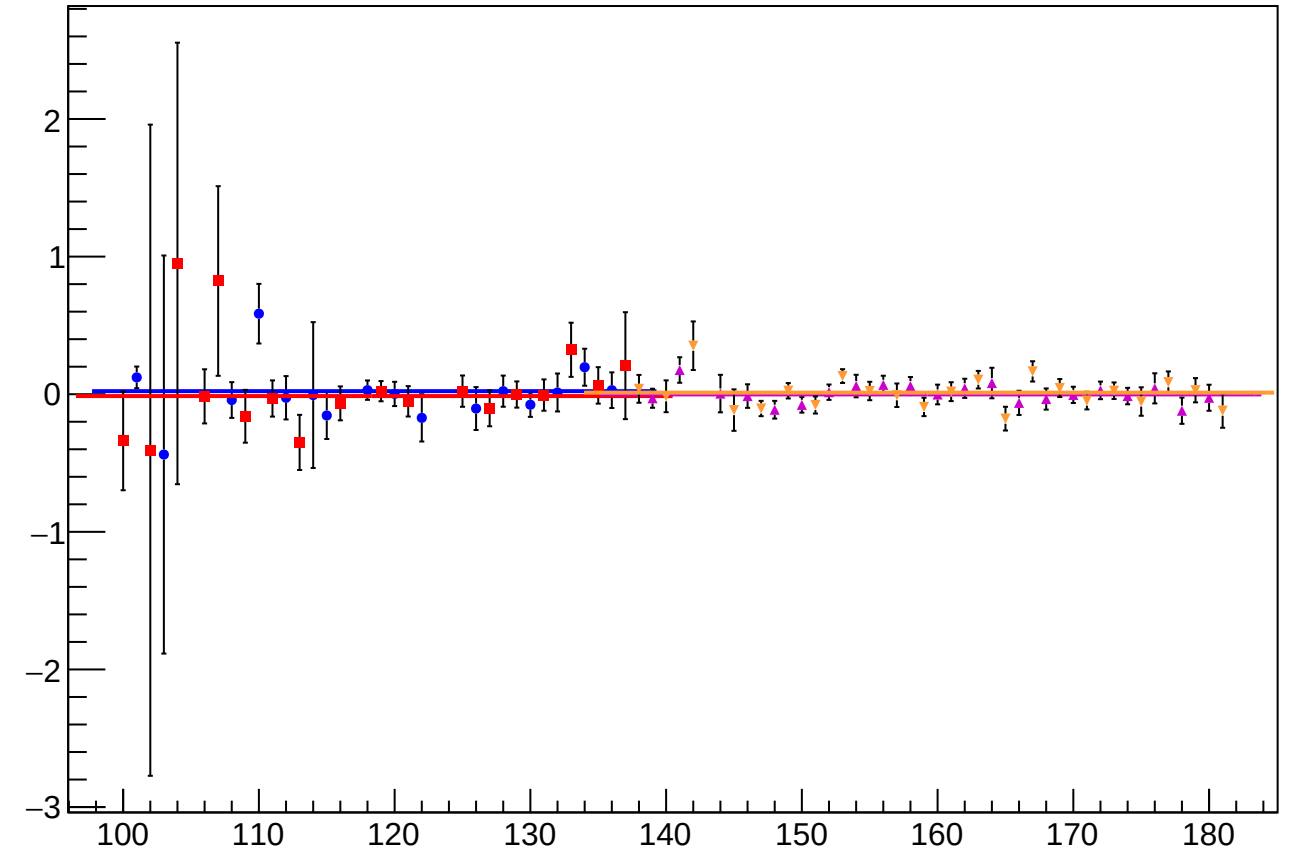
Left: 58.627+/-0.008 $\chi^2$/NDF: 3531464.4/42

Right: 70.509+/-0.016 $\chi^2$/NDF: 5212470.4/33

In: 61.718+/-0.010 $\chi^2$/NDF:3732442.8/36

Out: 60.271+/-0.010 $\chi^2$/NDF:5451500.7/39

All: 60.994+/-0.007 $\chi^2$/NDF: 9194414.9/76




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: 0.012+/-0.016 $\chi^2$/NDF:34.3/21

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: -0.001+/-0.016 $\chi^2$/NDF:14.9/20

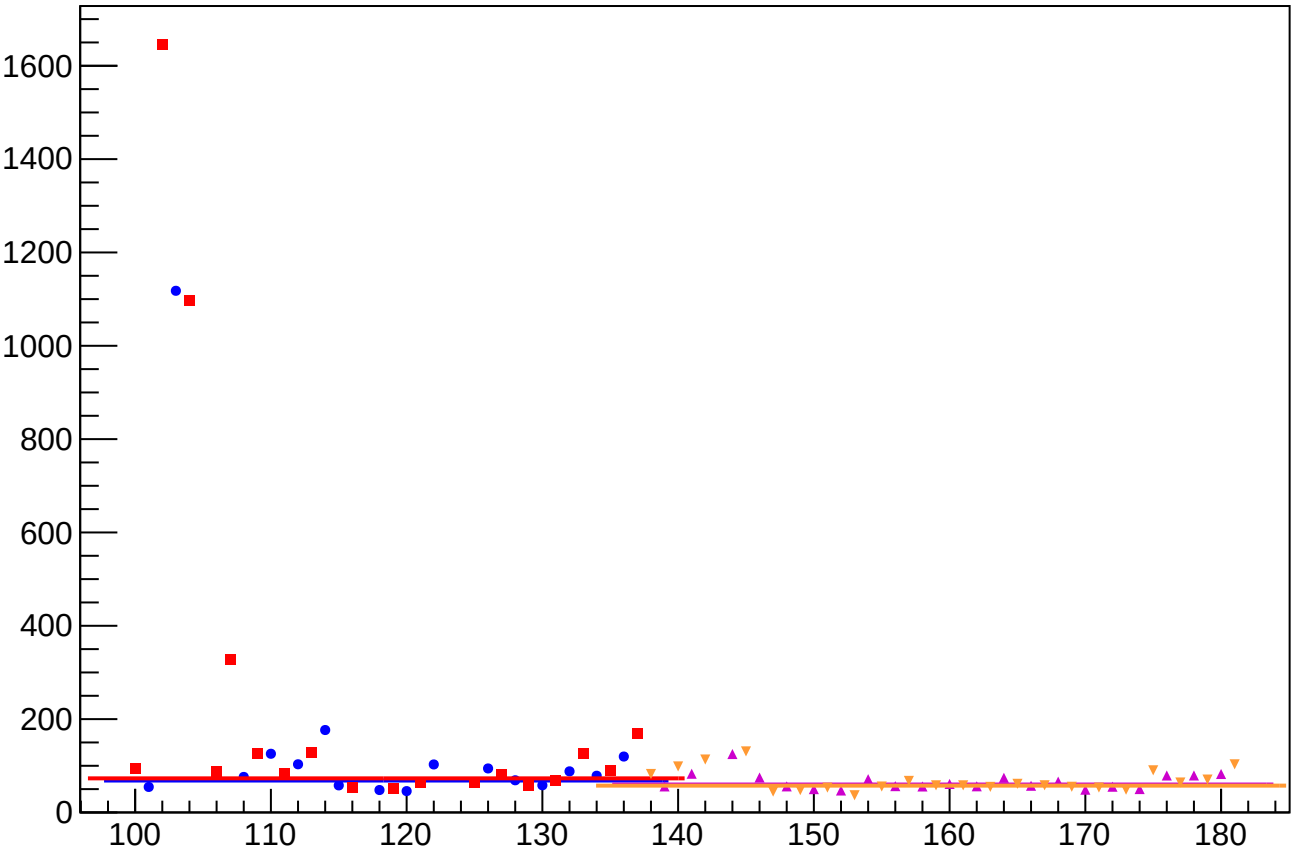
Left: 0.005+/-0.011 $\chi^2$/NDF: 49.5/42

Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: 0.004+/-0.014 $\chi^2$/NDF:30.2/36

Out: 0.007+/-0.014 $\chi^2$/NDF:45.5/39

All: 0.005+/-0.010 $\chi^2$/NDF: 75.7/76




Right In: 68.429+/-0.021 $\chi^2$/NDF: 2278083.9/15

Left Out: 57.494+/-0.011 $\chi^2$/NDF:2182477.7/21

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913147.6/17

Left In: 59.823+/-0.011 $\chi^2$/NDF:1327272.1/20

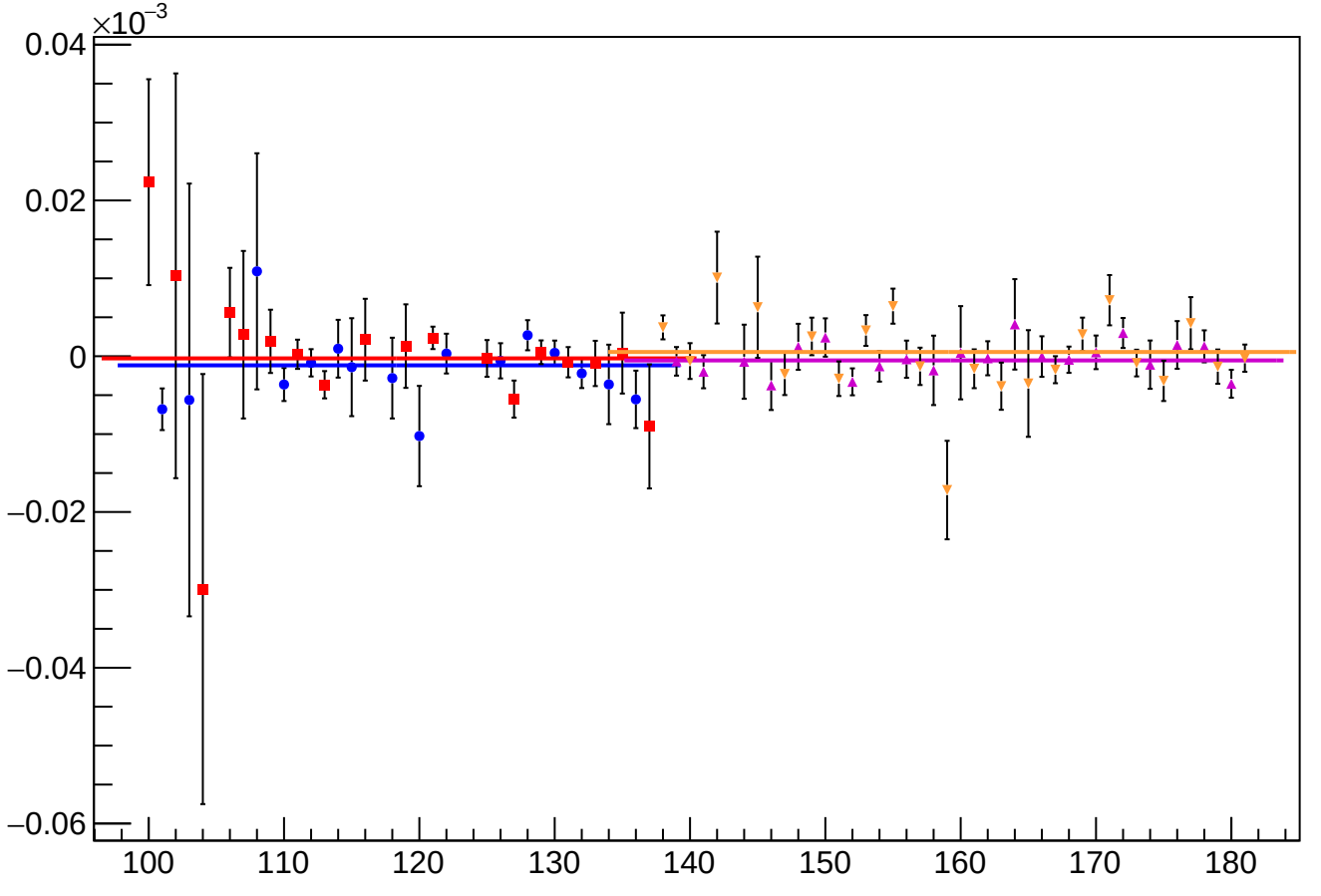
Left: 58.627+/-0.008 $\chi^2$/NDF: 3531464.4/42

Right: 70.509+/-0.016 $\chi^2$/NDF: 5212470.4/33

In: 61.718+/-0.010 $\chi^2$/NDF:3732442.8/36

Out: 60.271+/-0.010 $\chi^2$/NDF:5451500.7/39

All: 60.994+/-0.007 $\chi^2$/NDF: 9194414.9/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:44.4/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.5/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.3/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 61.0/42

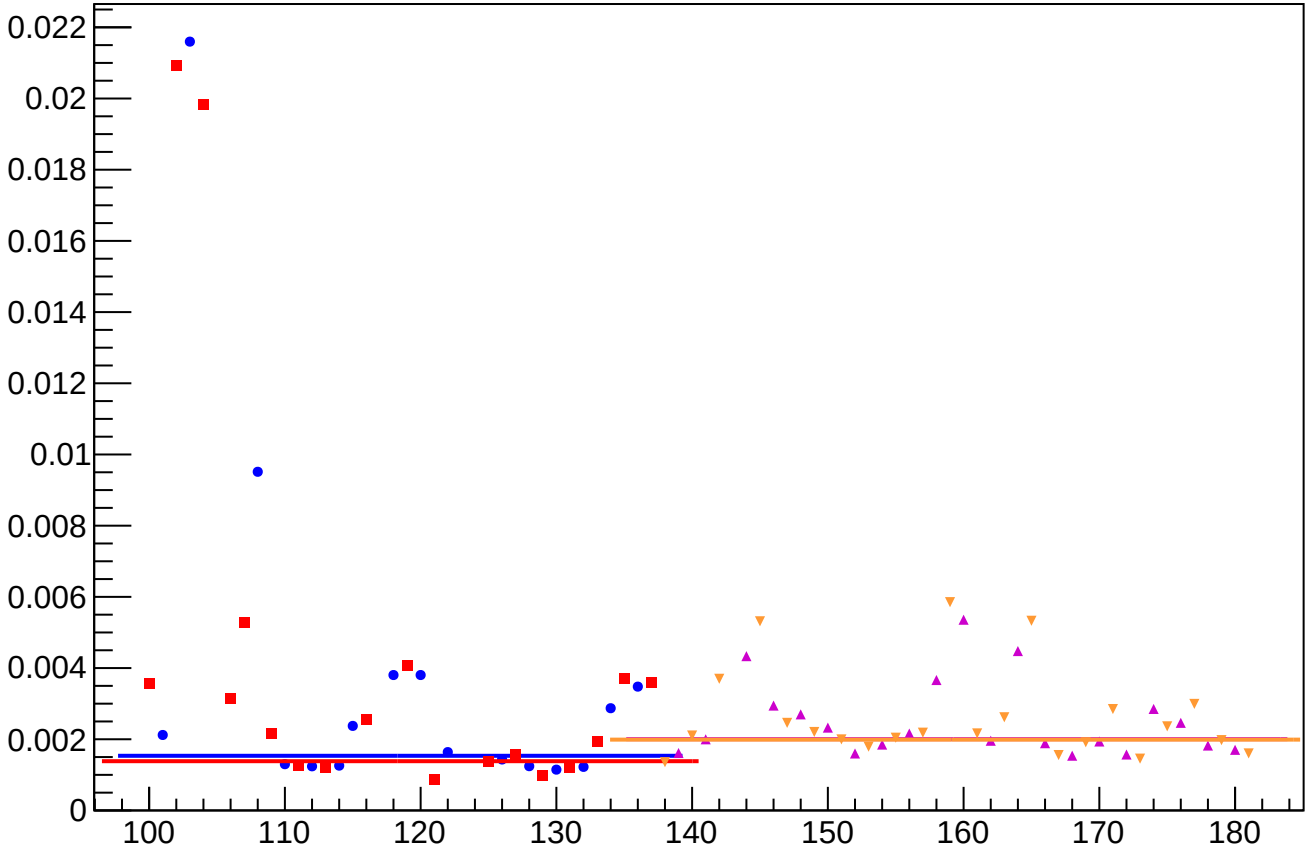
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:31.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:65.0/39

All: -0.000+/-0.000 $\chi^2$/NDF: 99.3/76

asym_atl1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3373907.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3245059.2/21

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4269081.2/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:2816401.5/20

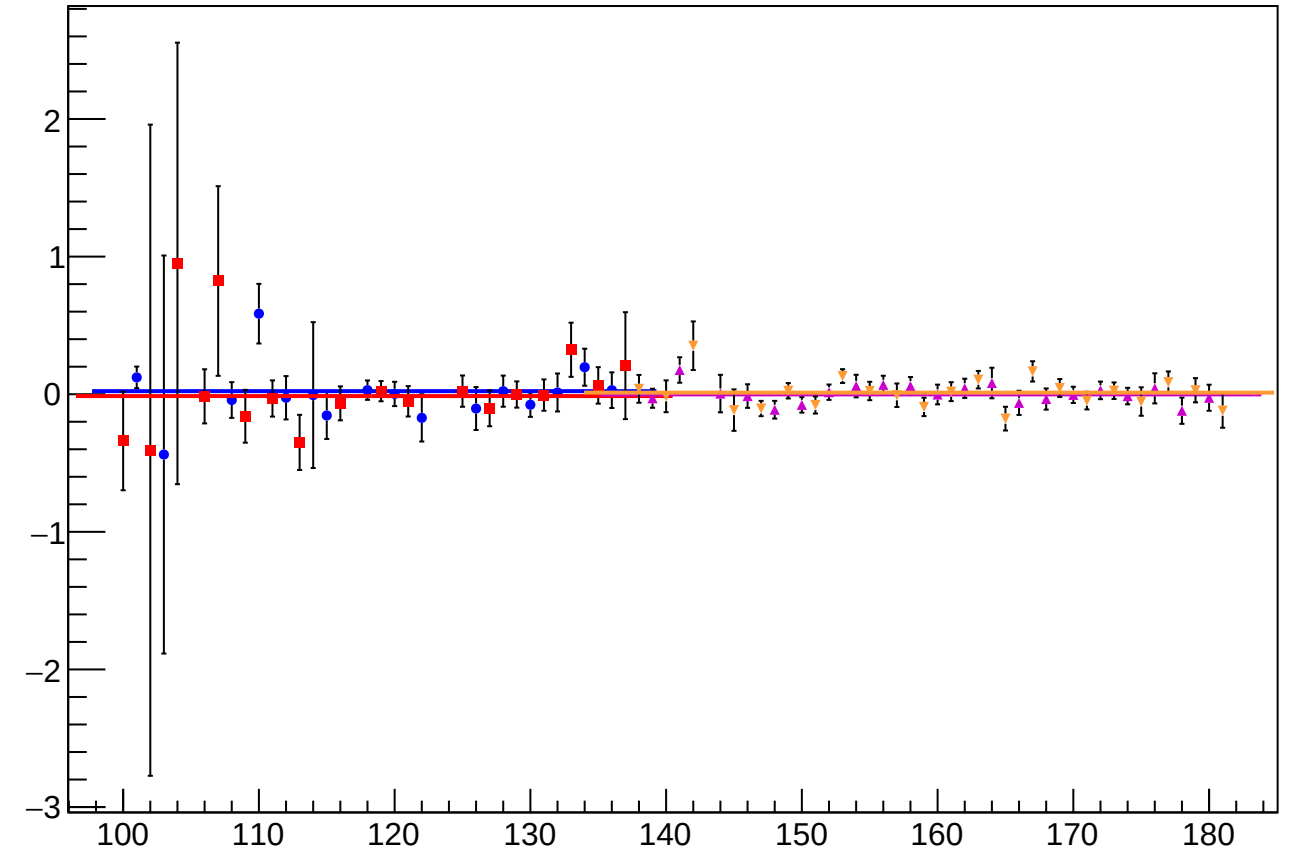
Left: 0.002+/-0.000 $\chi^2$/NDF: 6062166.8/42

Right: 0.001+/-0.000 $\chi^2$/NDF: 7697891.2/33

In: 0.002+/-0.000 $\chi^2$/NDF:6809162.0/36

Out: 0.002+/-0.000 $\chi^2$/NDF:8629096.5/39

All: 0.002+/-0.000 $\chi^2$/NDF: 15473373.5/76




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: 0.012+/-0.016 $\chi^2$/NDF:34.3/21

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: -0.001+/-0.016 $\chi^2$/NDF:14.9/20

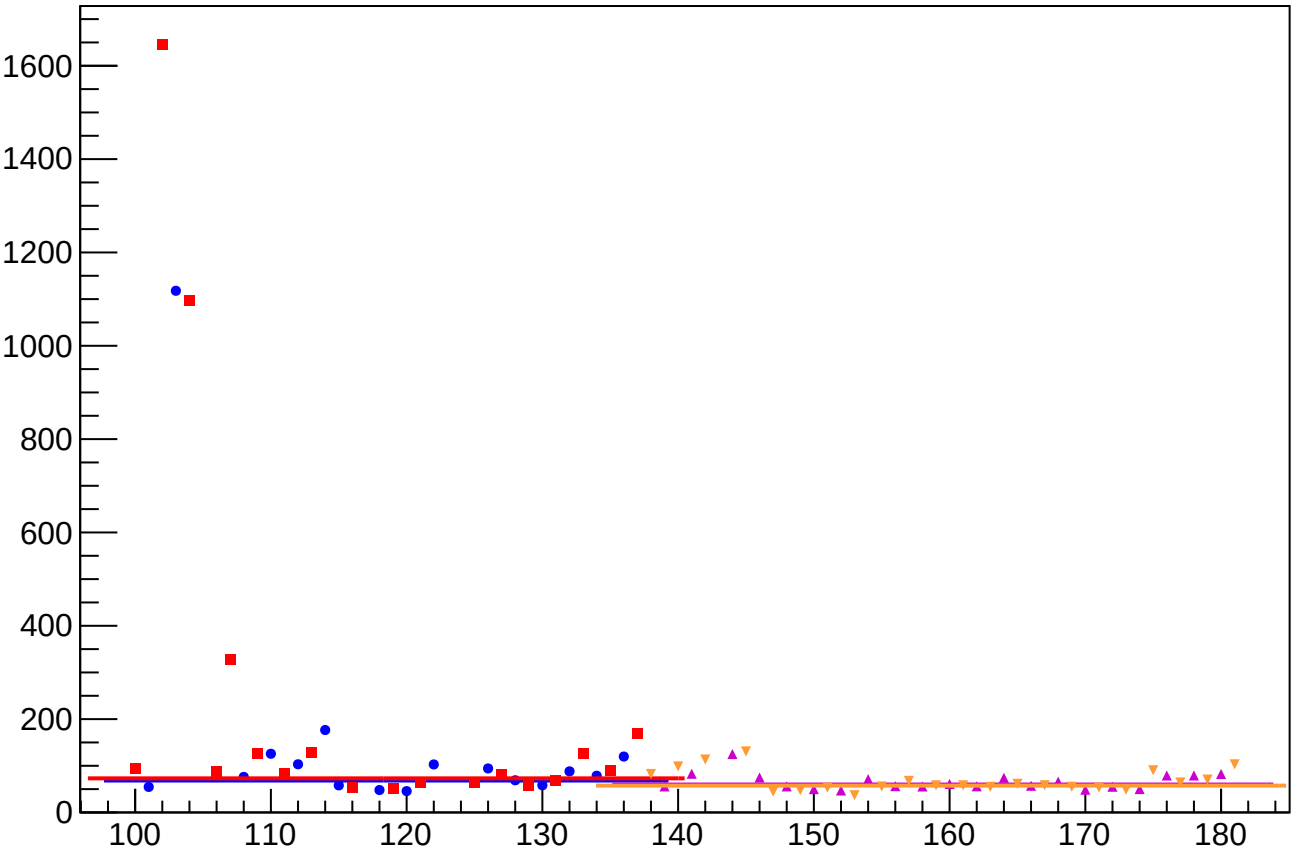
Left: 0.005+/-0.011 $\chi^2$/NDF: 49.5/42

Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: 0.004+/-0.014 $\chi^2$/NDF:30.2/36

Out: 0.007+/-0.014 $\chi^2$/NDF:45.5/39

All: 0.005+/-0.010 $\chi^2$/NDF: 75.7/76




Right In: 68.428+/-0.021 $\chi^2$/NDF: 2278168.9/15

Left Out: 57.494+/-0.011 $\chi^2$/NDF:2182551.8/21

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913161.9/17

Left In: 59.823+/-0.011 $\chi^2$/NDF:1327255.5/20

Left: 58.627+/-0.008 $\chi^2$/NDF: 3531525.4/42

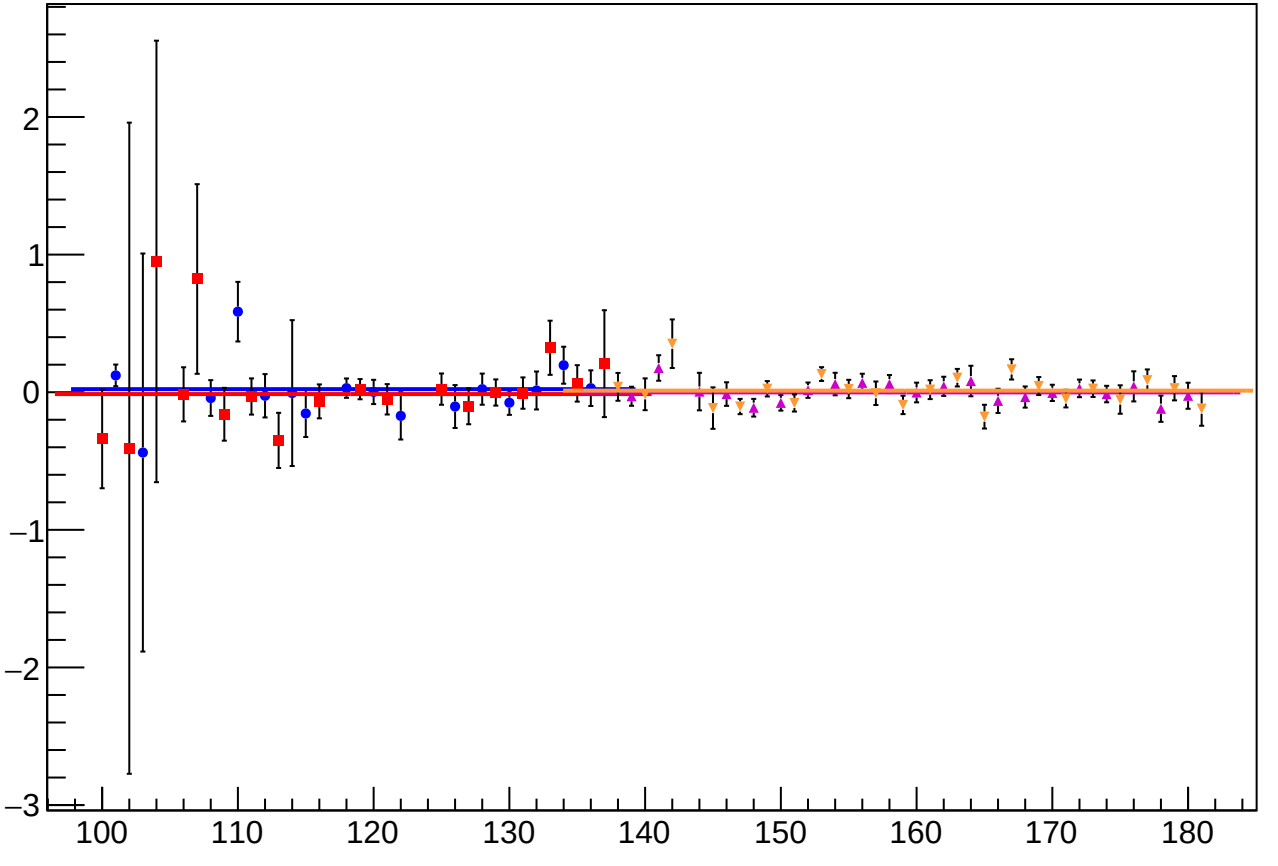
Right: 70.508+/-0.016 $\chi^2$/NDF: 5212574.0/33

In: 61.718+/-0.010 $\chi^2$/NDF:3732477.7/36

Out: 60.271+/-0.010 $\chi^2$/NDF:5451566.0/39

All: 60.994+/-0.007 $\chi^2$/NDF: 9194515.4/76

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: 0.012+/-0.016 $\chi^2$/NDF:34.3/21

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: -0.001+/-0.016 $\chi^2$/NDF:14.9/20

Left: 0.005+/-0.011 $\chi^2$/NDF: 49.5/42

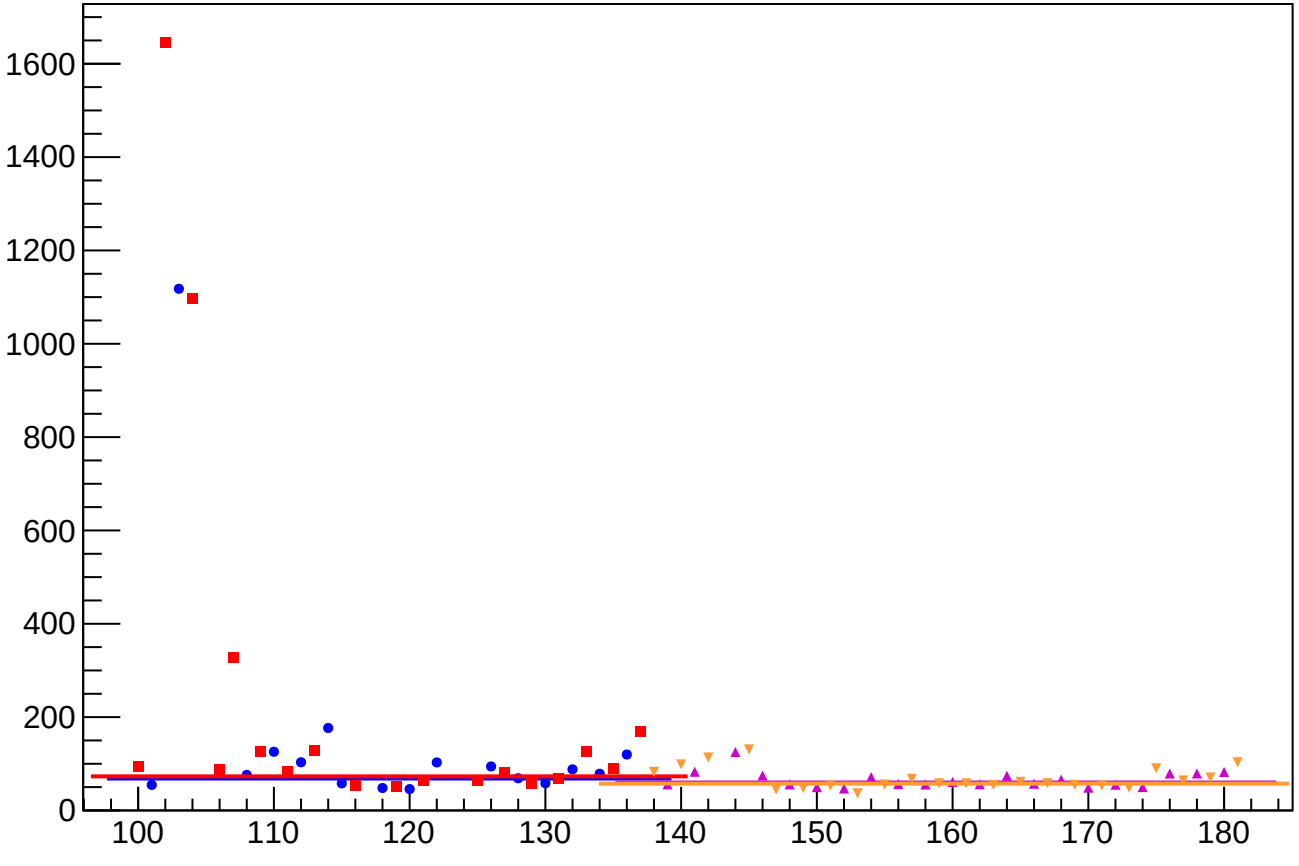
Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: 0.004+/-0.014 $\chi^2$/NDF:30.2/36

Out: 0.007+/-0.014 $\chi^2$/NDF:45.5/39

All: 0.005+/-0.010 $\chi^2$/NDF: 75.7/76

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 68.428+/-0.021 $\chi^2$/NDF: 2278168.9/15

Left Out: 57.494+/-0.011 $\chi^2$/NDF:2182551.8/21

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913161.9/17

Left In: 59.823+/-0.011 $\chi^2$/NDF:1327255.5/20

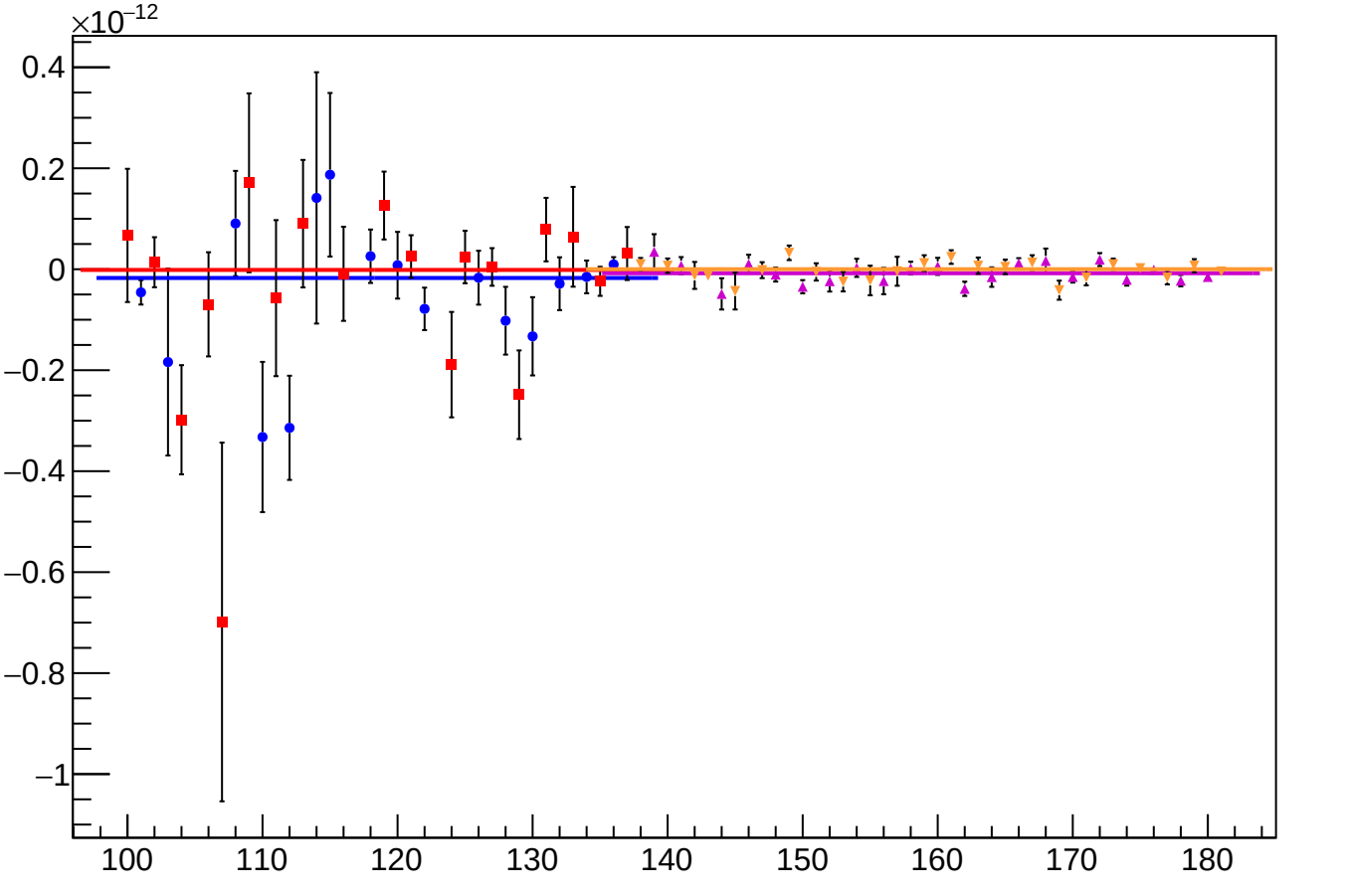
Left: 58.627+/-0.008 $\chi^2$/NDF: 3531525.4/42

Right: 70.508+/-0.016 $\chi^2$/NDF: 5212574.0/33

In: 61.718+/-0.010 $\chi^2$/NDF:3732477.7/36

Out: 60.271+/-0.010 $\chi^2$/NDF:5451566.0/39

All: 60.994+/-0.007 $\chi^2$/NDF: 9194515.4/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 28.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:30.6/20

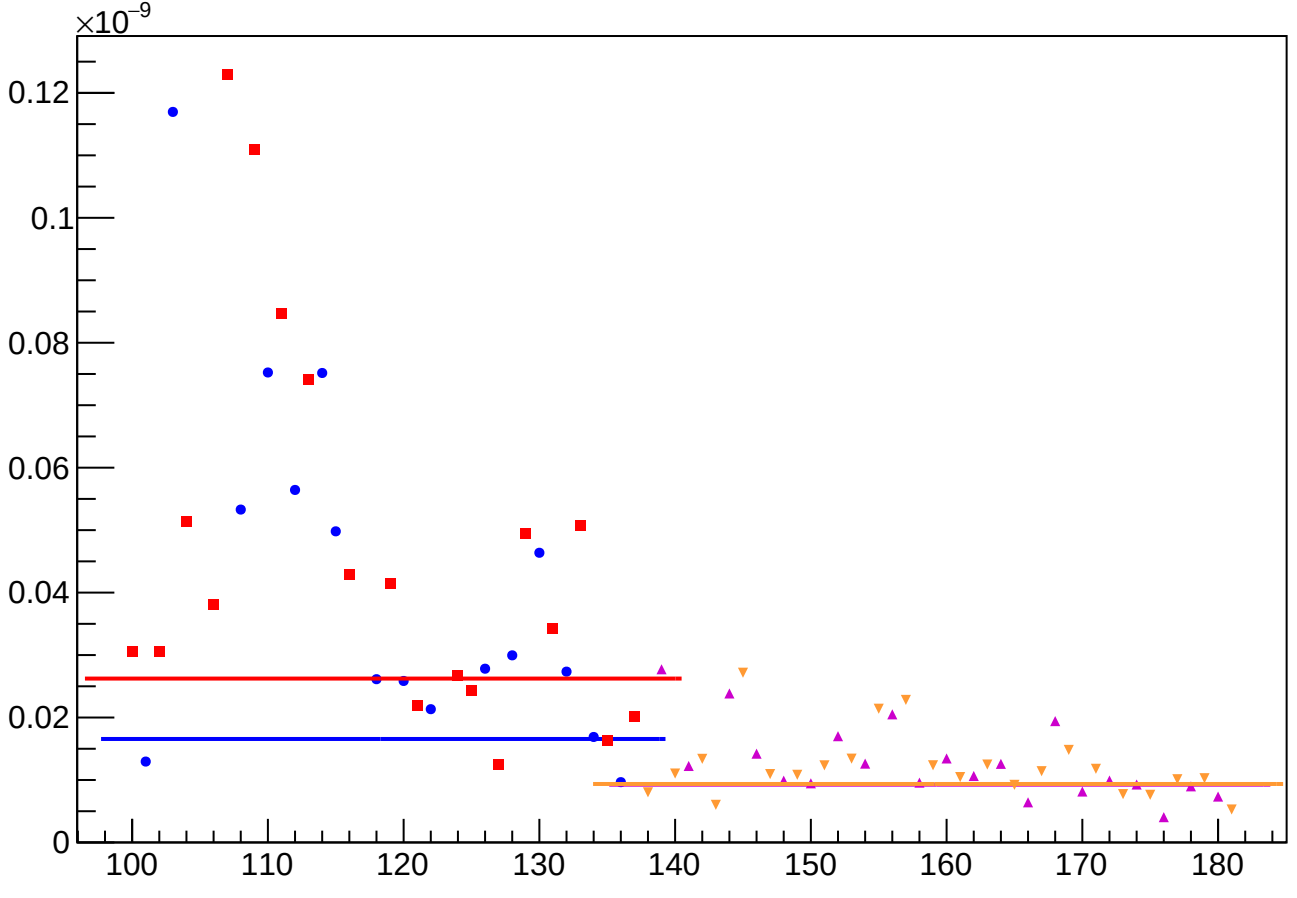
Left: -0.000+/-0.000 $\chi^2$/NDF: 59.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 61.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:59.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:57.6/41

All: -0.000+/-0.000 $\chi^2$/NDF: 122.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2823424.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3033173.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2346394.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3772572.6/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 6807292.2/43

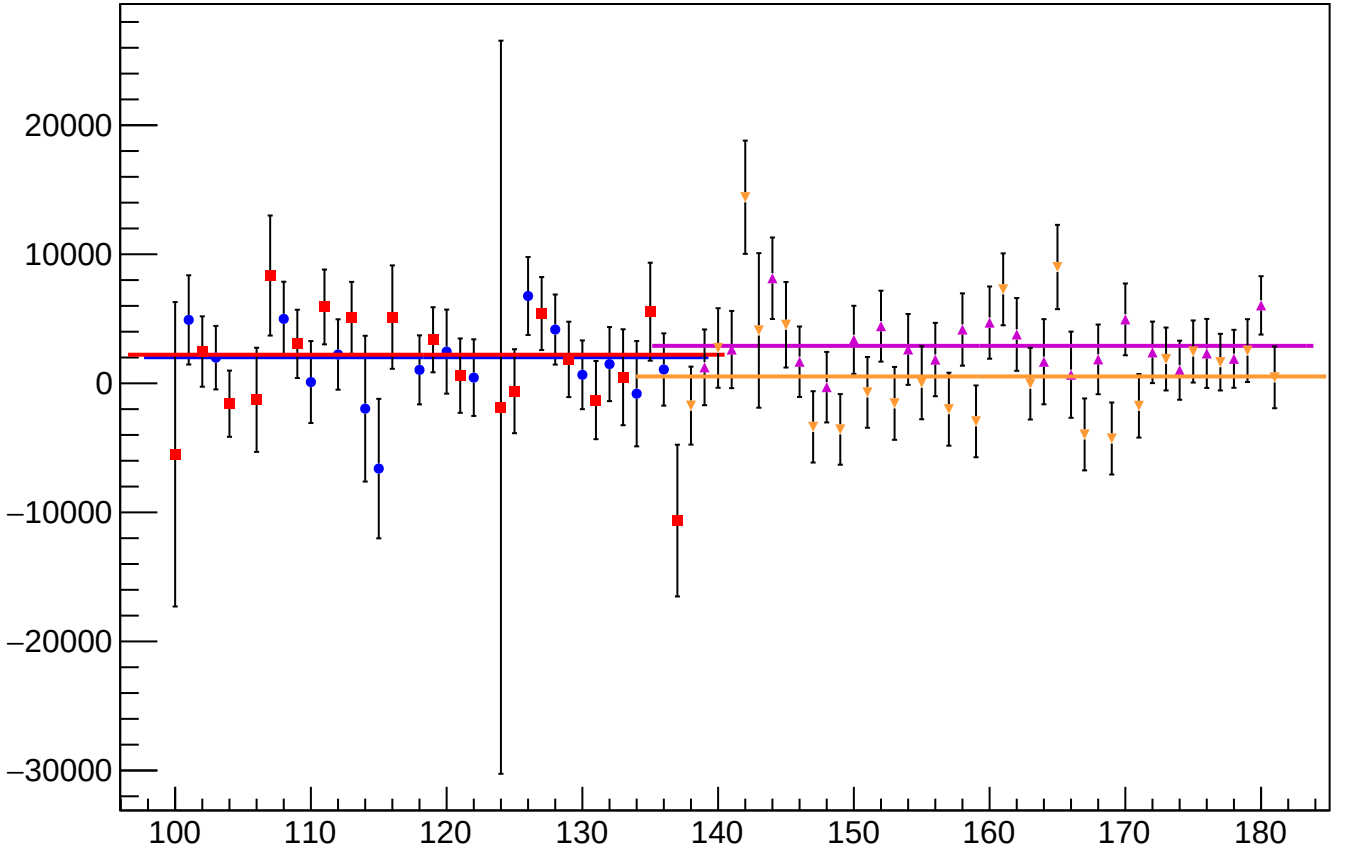
Right: 0.000+/-0.000 $\chi^2$/NDF: 5786992.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:7583845.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8073938.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15661652.1/78

# reg_asym_atl2_mean vs Slug, Sign Corrected




Right In: 2022.690+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 531.259+/-581.859 $\chi^2$/NDF:41.3/22

Right Out: 2217.261+/-756.139 $\chi^2$/NDF: 18.1/18

Left In: 2903.793+/-591.495 $\chi^2$/NDF:10.0/20

Left: 1698.043+/-414.801 $\chi^2$/NDF: 59.5/43

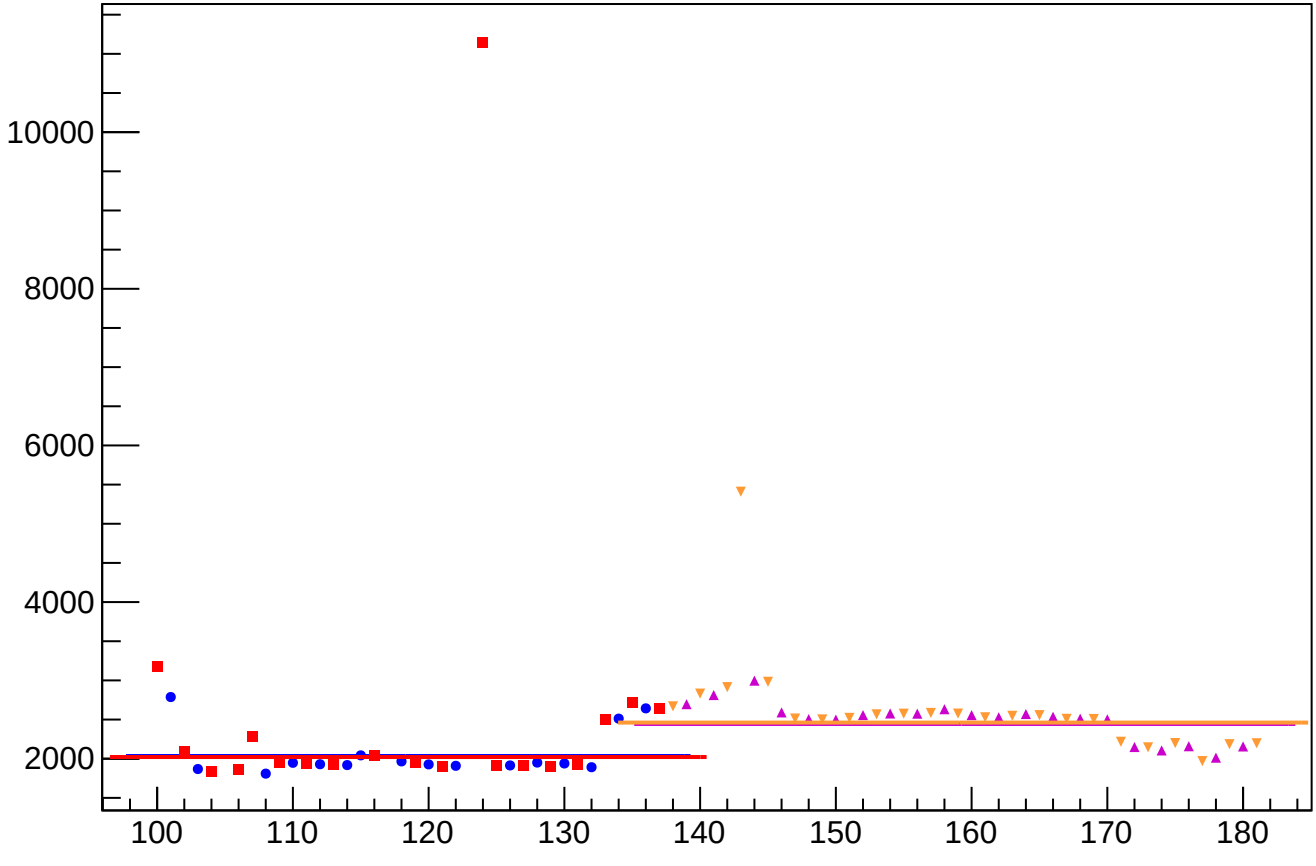
Right: 2121.027+/-537.553 $\chi^2$/NDF: 27.8/34

In: 2573.780+/-467.788 $\chi^2$/NDF:20.5/36

Out: 1158.314+/-461.132 $\chi^2$/NDF:62.5/41

All: 1855.906+/-328.398 $\chi^2$/NDF: 87.6/78

# reg_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.7/15

Left Out: 2461.425+/-0.411 $\chi^2$/NDF:842414.9/22

Right Out: 2021.545+/-0.535 $\chi^2$/NDF: 390321.3/18

Left In: 2443.681+/-0.418 $\chi^2$/NDF:350021.2/20

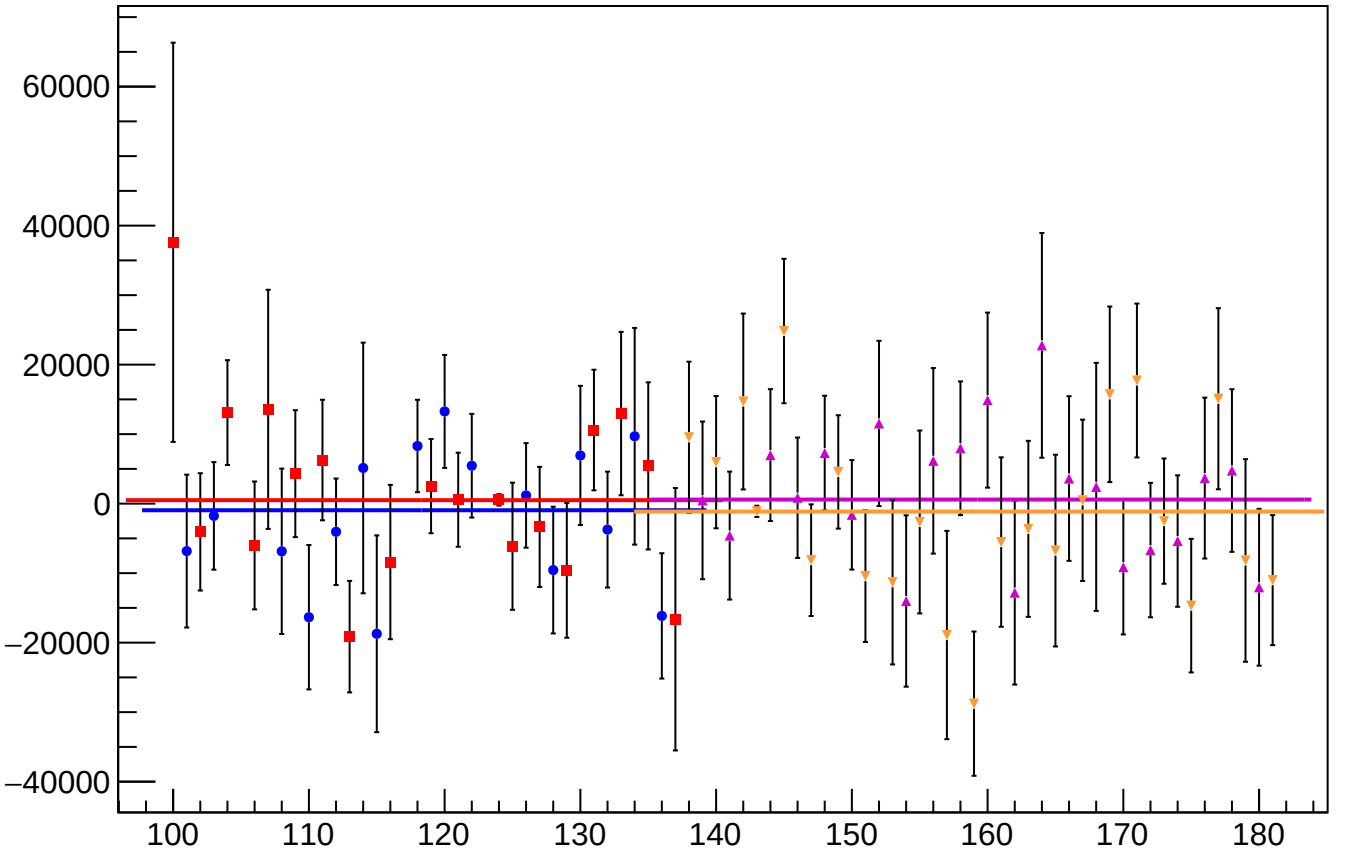
Left: 2452.699+/-0.293 $\chi^2$/NDF: 1193350.7/43

Right: 2027.784+/-0.380 $\chi^2$/NDF: 653557.3/34

In: 2290.296+/-0.331 $\chi^2$/NDF:972058.9/36

Out: 2297.825+/-0.326 $\chi^2$/NDF:1657855.4/41

All: 2294.115+/-0.232 $\chi^2$/NDF: 2630177.0/78




Right In: -950.519+/-2278.532 $\chi^2$/NDF: 15.3/15

Left Out: -1137.388+/-761.711 $\chi^2$/NDF:30.7/22

Right Out: 497.346+/-768.286 $\chi^2$/NDF: 18.5/18

Left In: 588.061+/-2317.497 $\chi^2$/NDF:12.2/20

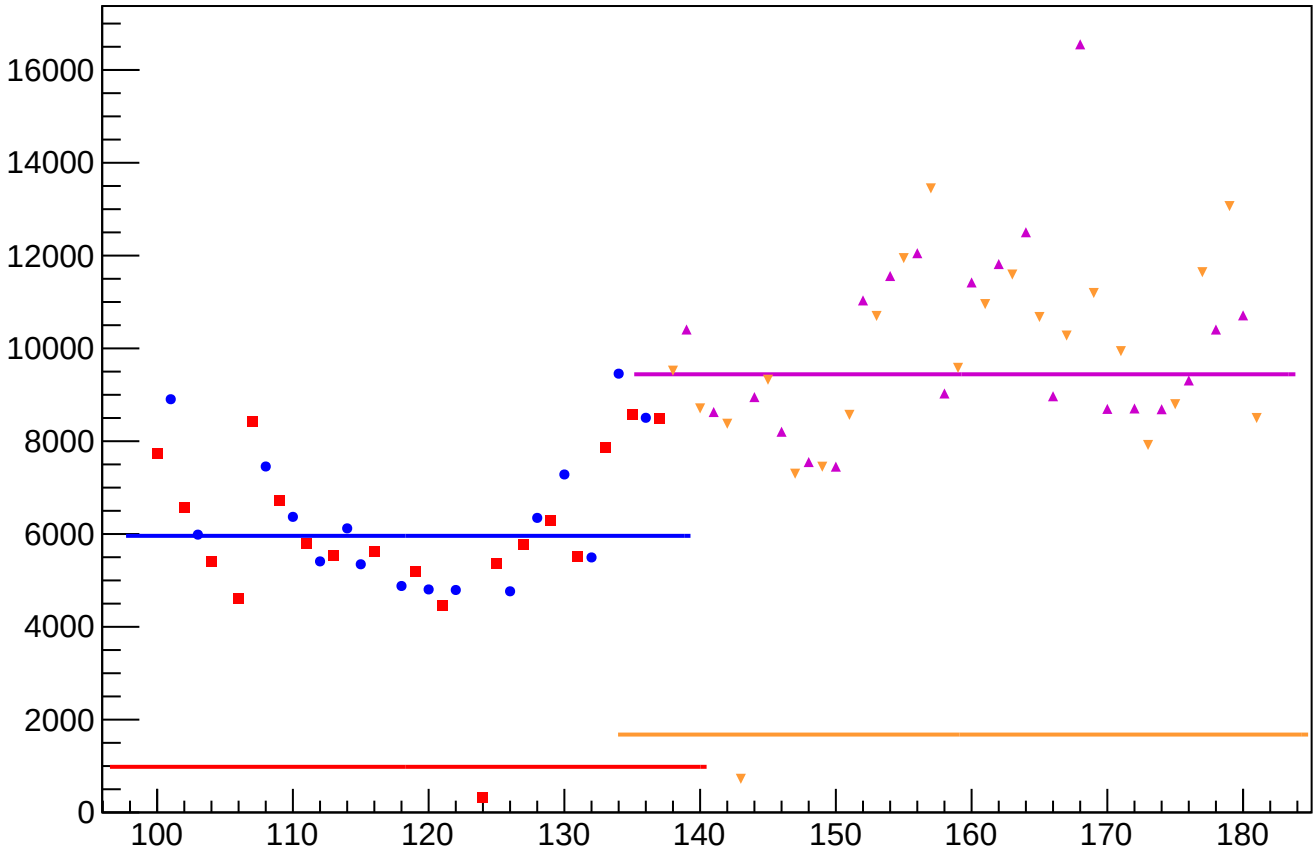
Left: -969.162+/-723.627 $\chi^2$/NDF: 43.5/43

Right: 349.538+/-728.015 $\chi^2$/NDF: 34.2/34

In: -194.272+/-1624.766 $\chi^2$/NDF:27.8/36

Out: -327.046+/-540.921 $\chi^2$/NDF:51.5/41

All: -313.798+/-513.226 $\chi^2$/NDF: 79.3/78




Right In: 5960.802+/-1.611 $\chi^2$/NDF: 689267.6/15

Left Out: 1678.422+/-0.539 $\chi^2$/NDF:26471710.6/22

Right Out: 983.316+/-0.543 $\chi^2$/NDF: 11416689.8/18

Left In: 9442.209+/-1.639 $\chi^2$/NDF:1065982.4/20

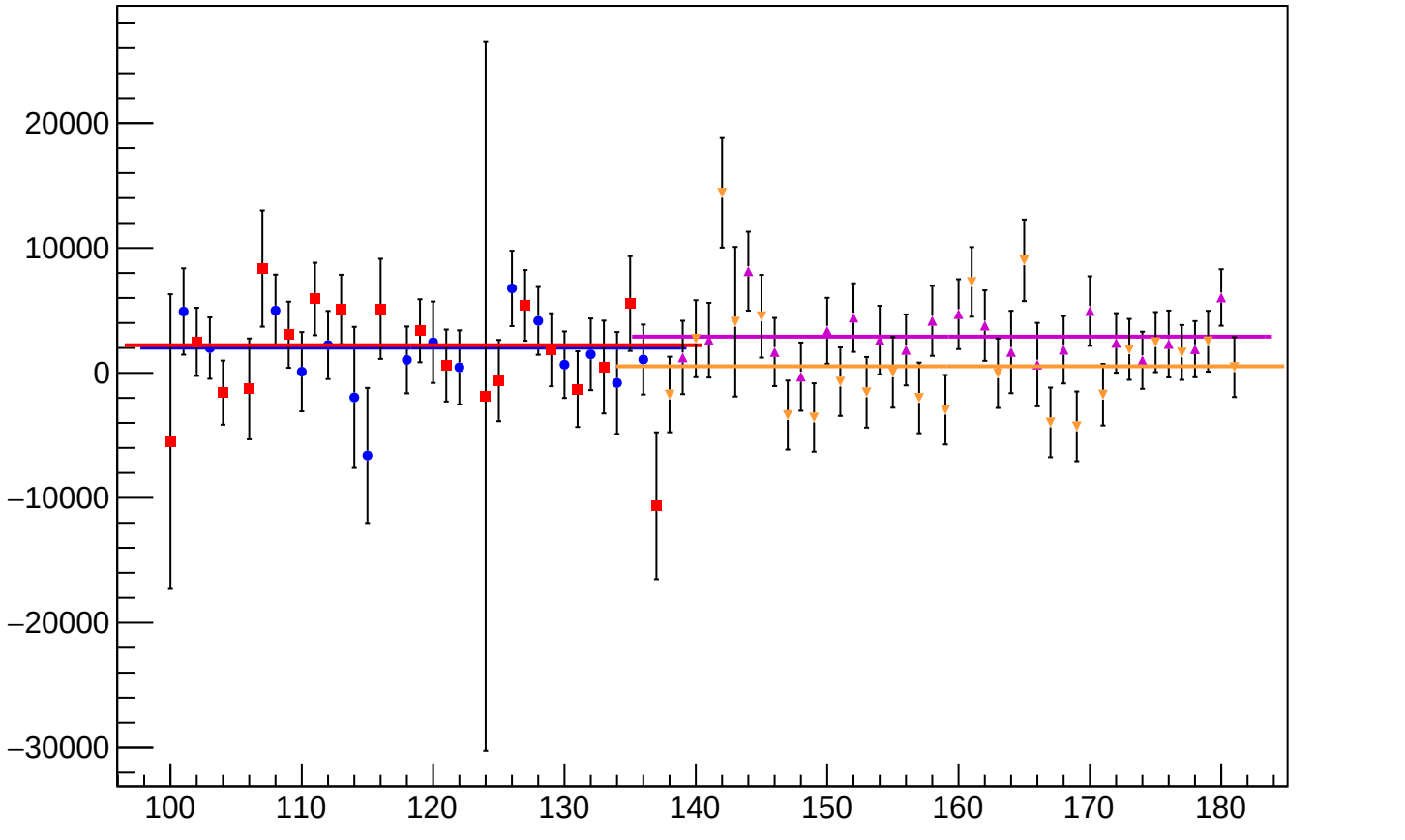
Left: 2435.368+/-0.512 $\chi^2$/NDF: 47795273.9/43

Right: 1491.453+/-0.515 $\chi^2$/NDF: 20675824.3/34

In: 7671.992+/-1.149 $\chi^2$/NDF:4050198.7/36

Out: 1333.856+/-0.382 $\chi^2$/NDF:38714005.1/41

All: 1966.264+/-0.363 $\chi^2$/NDF: 70162328.6/7




Right In: 2022.816+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 531.245+/-581.859 $\chi^2$/NDF:41.3/22

Right Out: 2219.099+/-756.147 $\chi^2$/NDF: 18.1/18

Left In: 2903.711+/-591.495 $\chi^2$/NDF:10.0/20

Left: 1697.995+/-414.801 $\chi^2$/NDF: 59.5/43

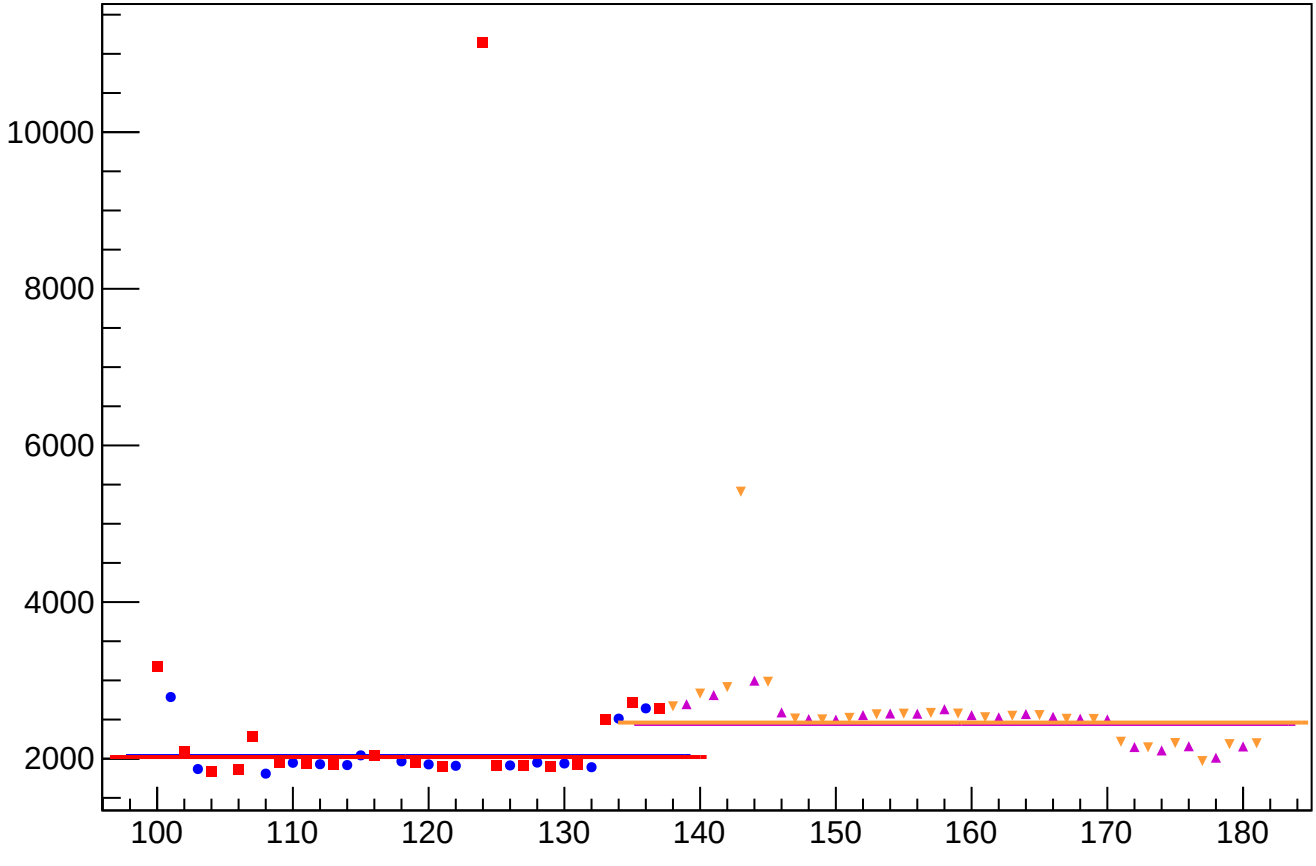
Right: 2122.018+/-537.556 $\chi^2$/NDF: 27.8/34

In: 2573.776+/-467.788 $\chi^2$/NDF:20.5/36

Out: 1158.981+/-461.134 $\chi^2$/NDF:62.5/41

All: 1856.245+/-328.398 $\chi^2$/NDF: 87.6/78

# cor_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.5/15

Left Out: 2461.425+/-0.411 $\chi^2$/NDF:842414.9/22

Right Out: 2021.566+/-0.535 $\chi^2$/NDF: 390333.0/18

Left In: 2443.681+/-0.418 $\chi^2$/NDF:350021.1/20

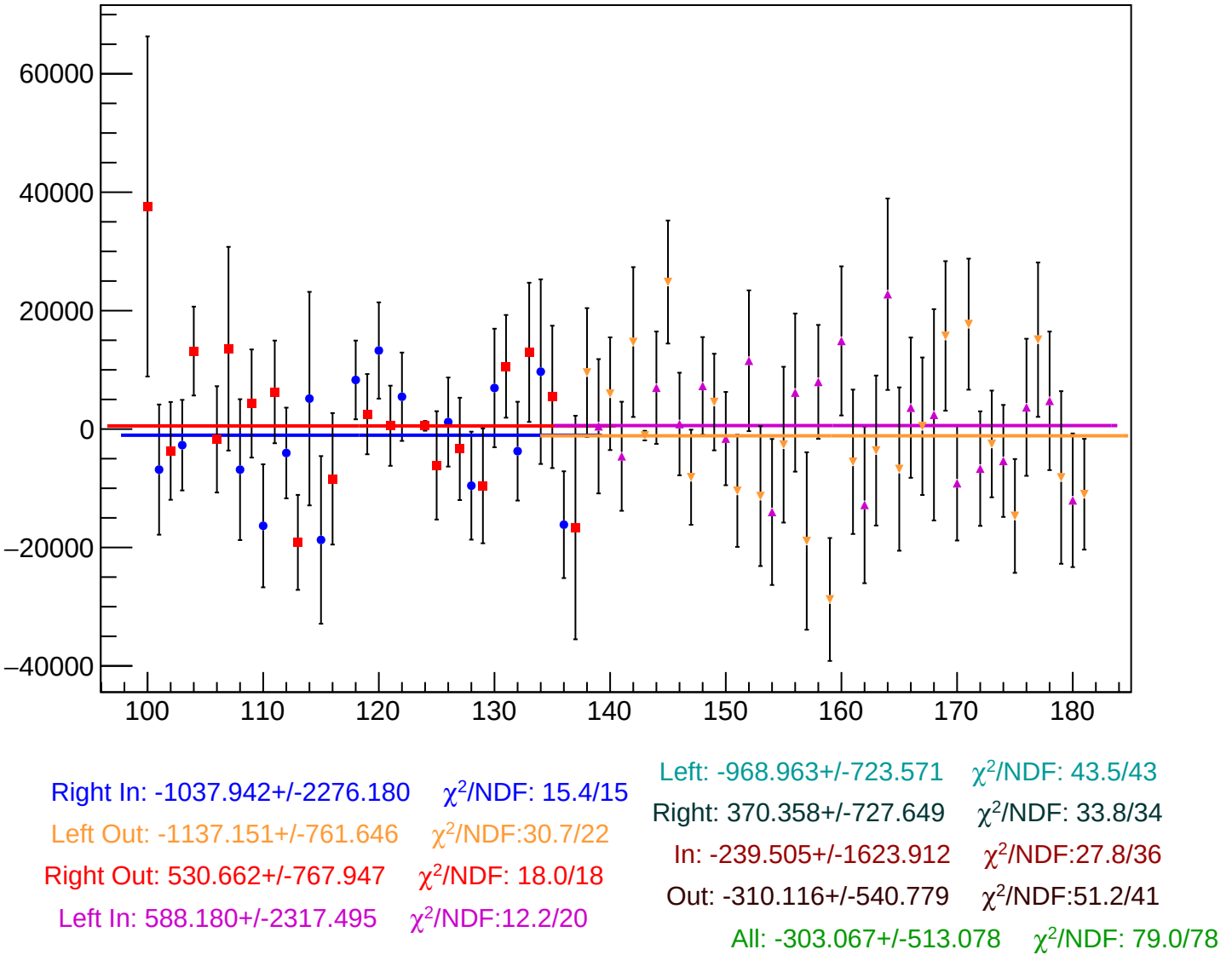
Left: 2452.699+/-0.293 $\chi^2$/NDF: 1193350.7/43

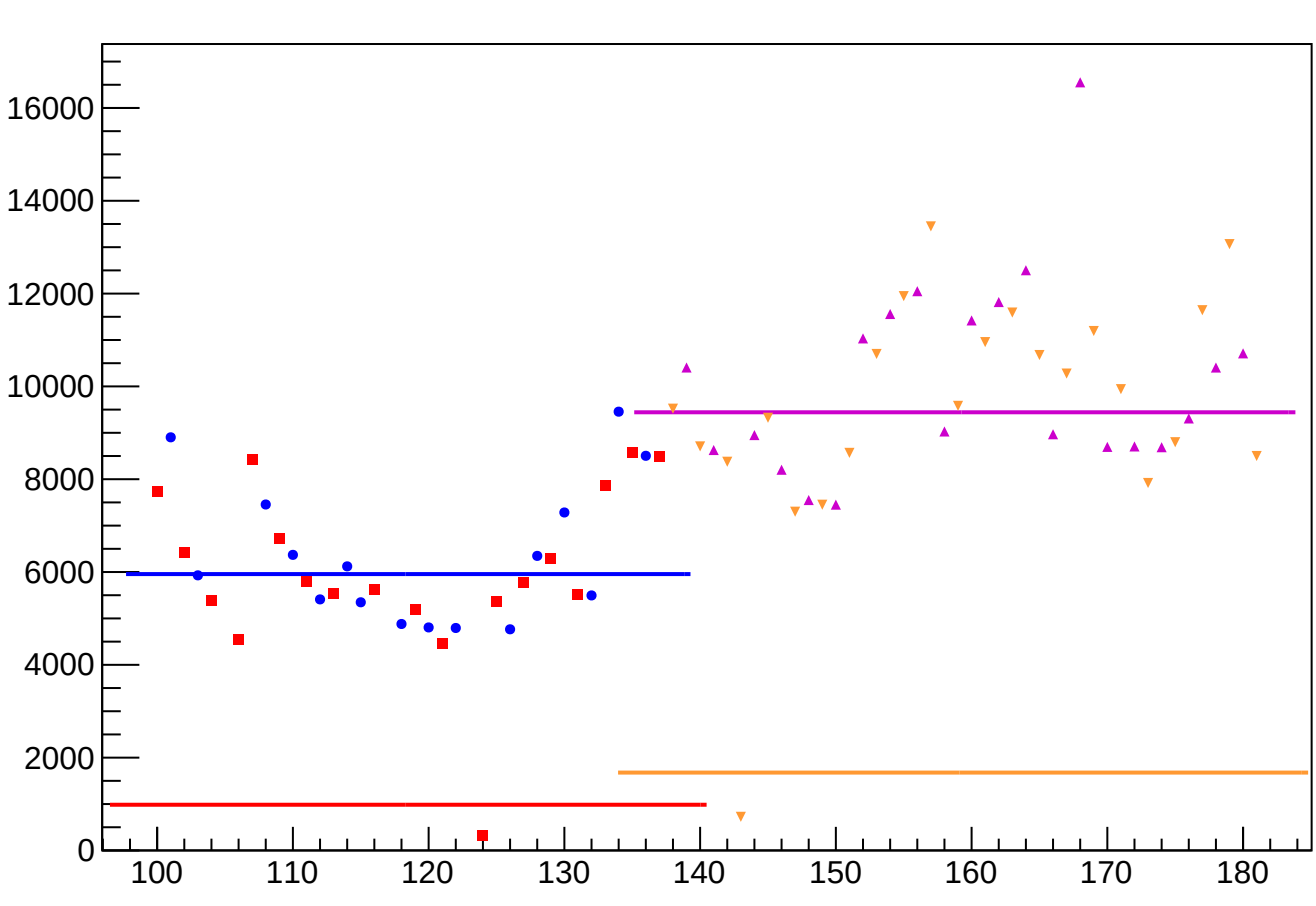
Right: 2027.795+/-0.380 $\chi^2$/NDF: 653567.8/34

In: 2290.296+/-0.331 $\chi^2$/NDF:972059.0/36

Out: 2297.835+/-0.326 $\chi^2$/NDF:1657820.1/41

All: 2294.120+/-0.232 $\chi^2$/NDF: 2630142.6/78


asym_atl2_cor_correction_mean vs Slug, Sign Corrected
60000
40000
20000
0
−20000
−40000
100
110
120
130
140
150
160
170
180
Right In: -1037.942+/-2276.180 χ²/NDF: 15.4/15
Left Out: -1137.151+/-761.646 χ²/NDF:30.7/22
Right Out: 530.662+/-767.947 χ²/NDF: 18.0/18
Left In: 588.180+/-2317.495 χ²/NDF:12.2/20
Left: -968.963+/-723.571 χ²/NDF: 43.5/43
Right: 370.358+/-727.649 χ²/NDF: 33.8/34
In: -239.505+/-1623.912 χ²/NDF:27.8/36
Out: -310.116+/-540.779 χ²/NDF:51.2/41
All: -303.067+/-513.078 χ²/NDF: 79.0/78




Right In: 5955.638+/-1.610 $\chi^2$/NDF: 689141.5/15

Left Out: 1678.196+/-0.539 $\chi^2$/NDF:26472656.8/22

Right Out: 985.045+/-0.543 $\chi^2$/NDF: 11412843.1/18

Left In: 9442.199+/-1.639 $\chi^2$/NDF:1065989.0/20

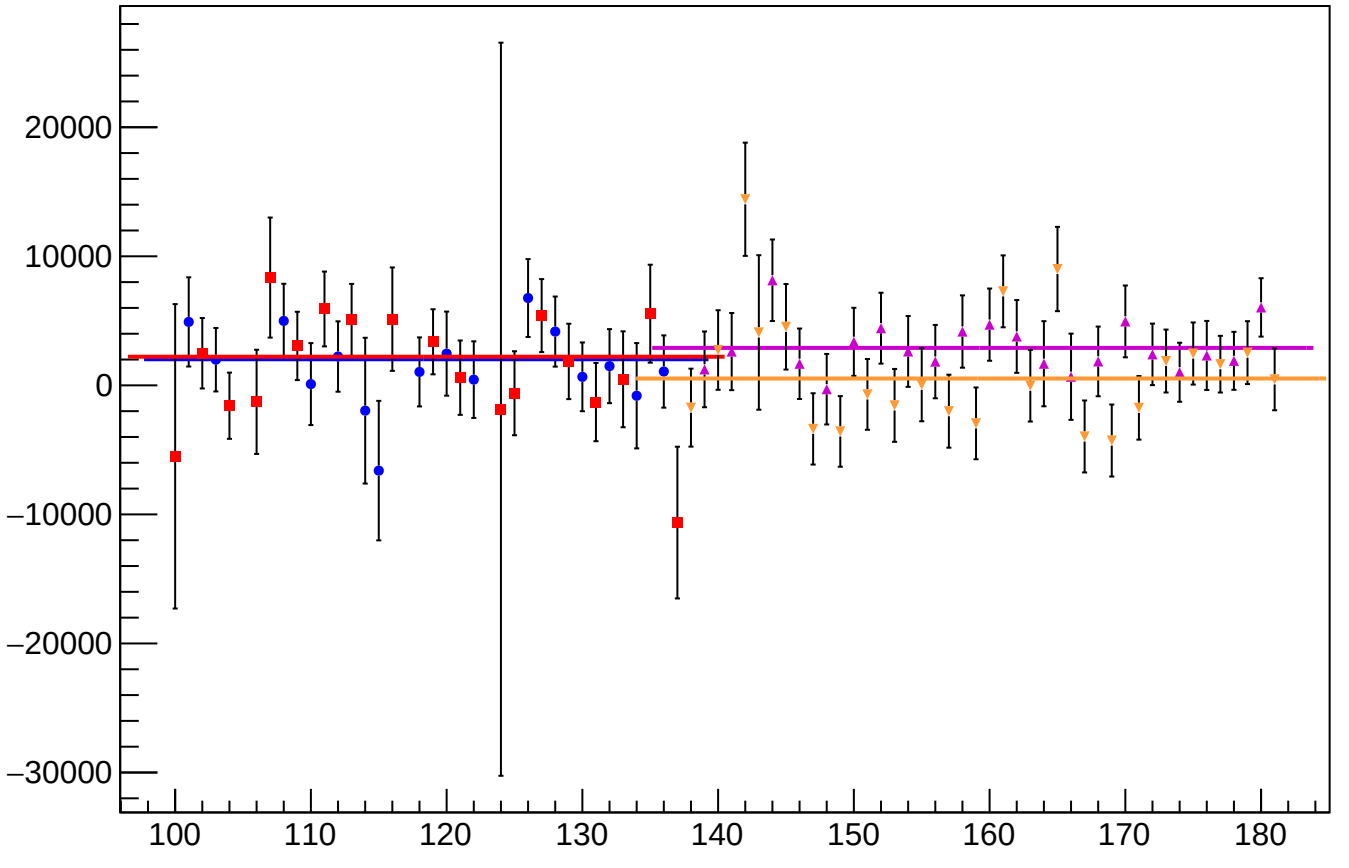
Left: 2435.046+/-0.512 $\chi^2$/NDF: 47797729.6/43

Right: 1493.016+/-0.515 $\chi^2$/NDF: 20664769.2/34

In: 7667.564+/-1.148 $\chi^2$/NDF:4059217.0/36

Out: 1334.476+/-0.382 $\chi^2$/NDF:38706905.0/41

All: 1966.679+/-0.363 $\chi^2$/NDF: 70147964.0/7




Right In: 2022.816+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 531.245+/-581.859 $\chi^2$/NDF:41.3/22

Right Out: 2219.099+/-756.147 $\chi^2$/NDF: 18.1/18

Left In: 2903.711+/-591.495 $\chi^2$/NDF:10.0/20

Left: 1697.995+/-414.801 $\chi^2$/NDF: 59.5/43

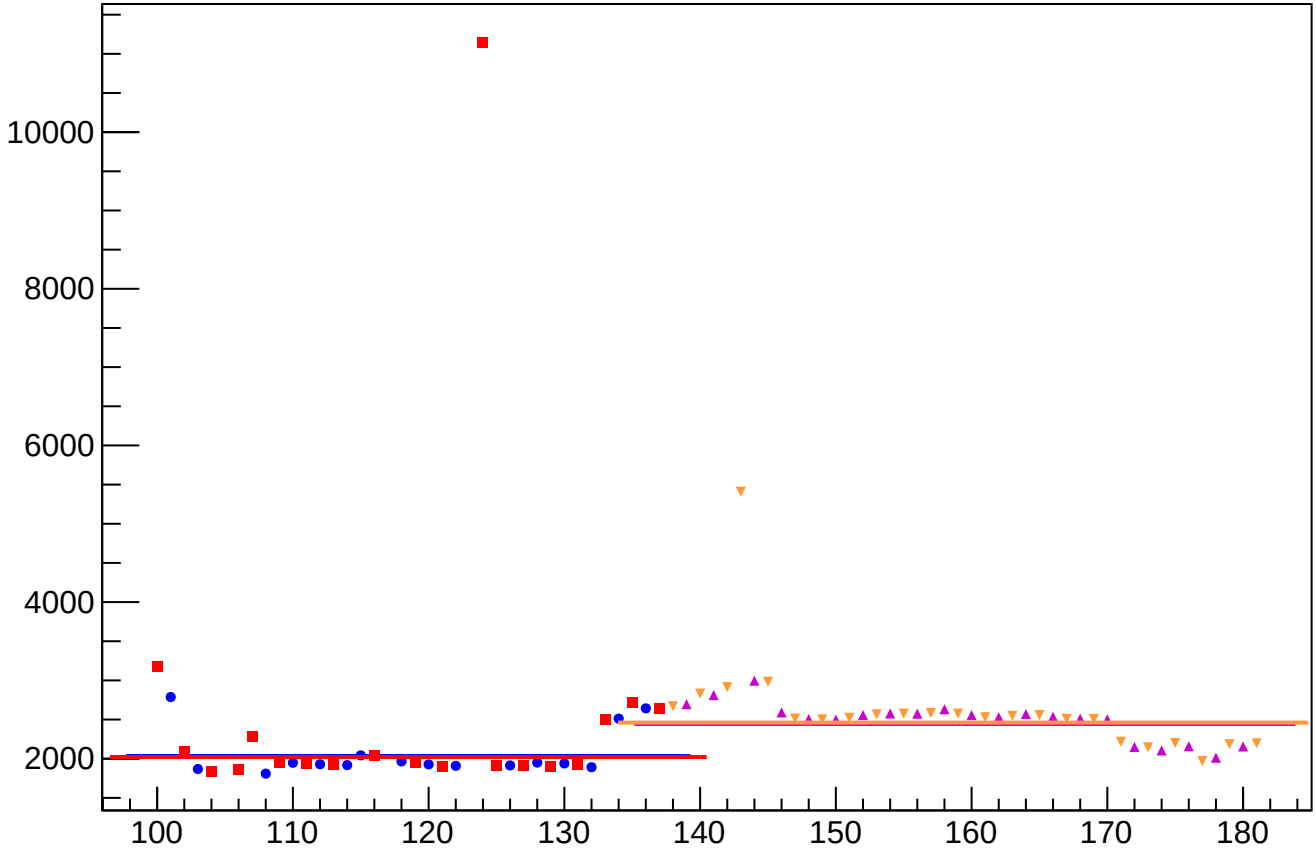
Right: 2122.018+/-537.556 $\chi^2$/NDF: 27.8/34

In: 2573.776+/-467.788 $\chi^2$/NDF:20.5/36

Out: 1158.981+/-461.134 $\chi^2$/NDF:62.5/41

All: 1856.245+/-328.398 $\chi^2$/NDF: 87.6/78

# eigen_cor_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.5/15

Left Out: 2461.425+/-0.411 $\chi^2$/NDF:842414.9/22

Right Out: 2021.566+/-0.535 $\chi^2$/NDF: 390333.0/18

Left In: 2443.681+/-0.418 $\chi^2$/NDF:350021.1/20

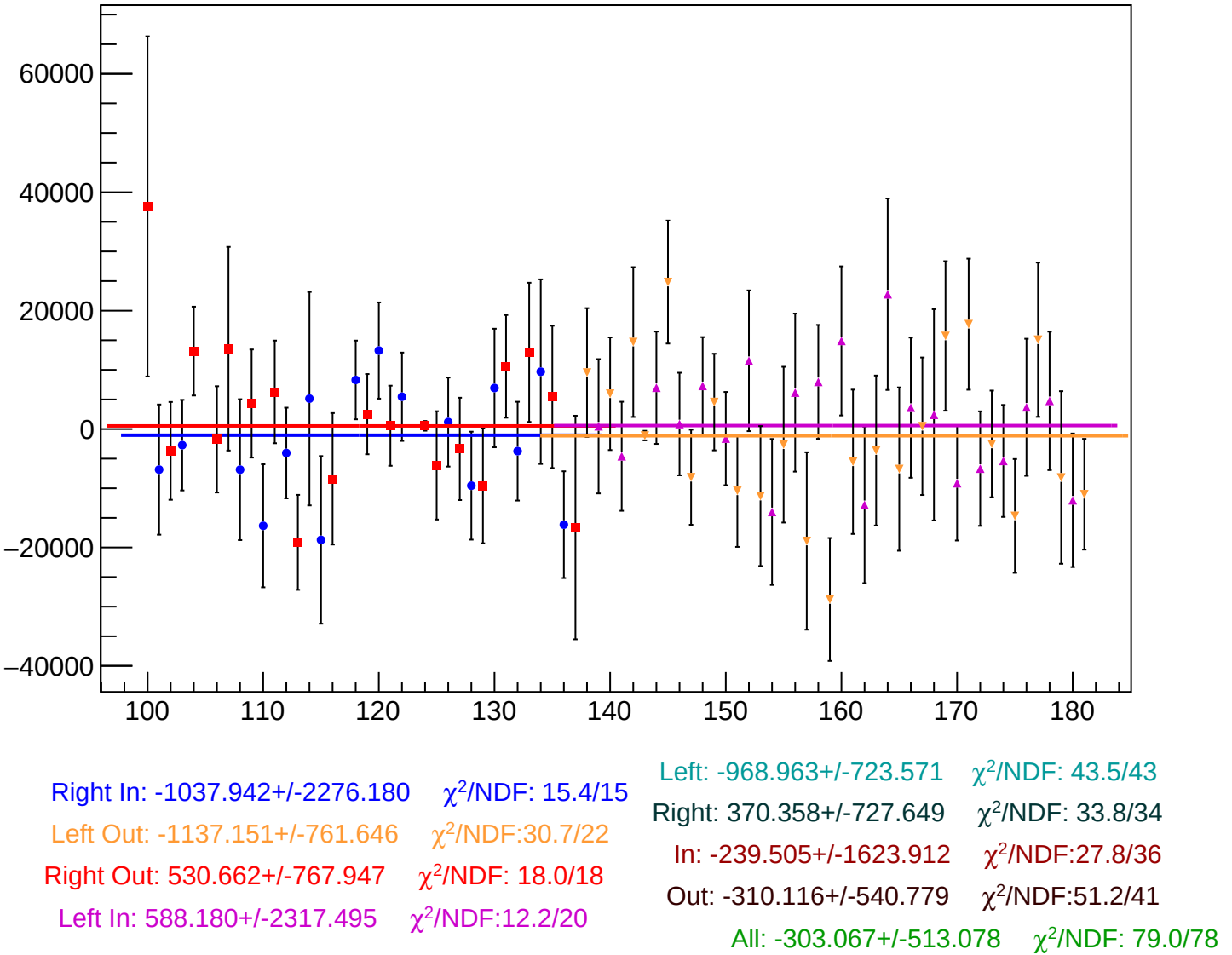
Left: 2452.699+/-0.293 $\chi^2$/NDF: 1193350.7/43

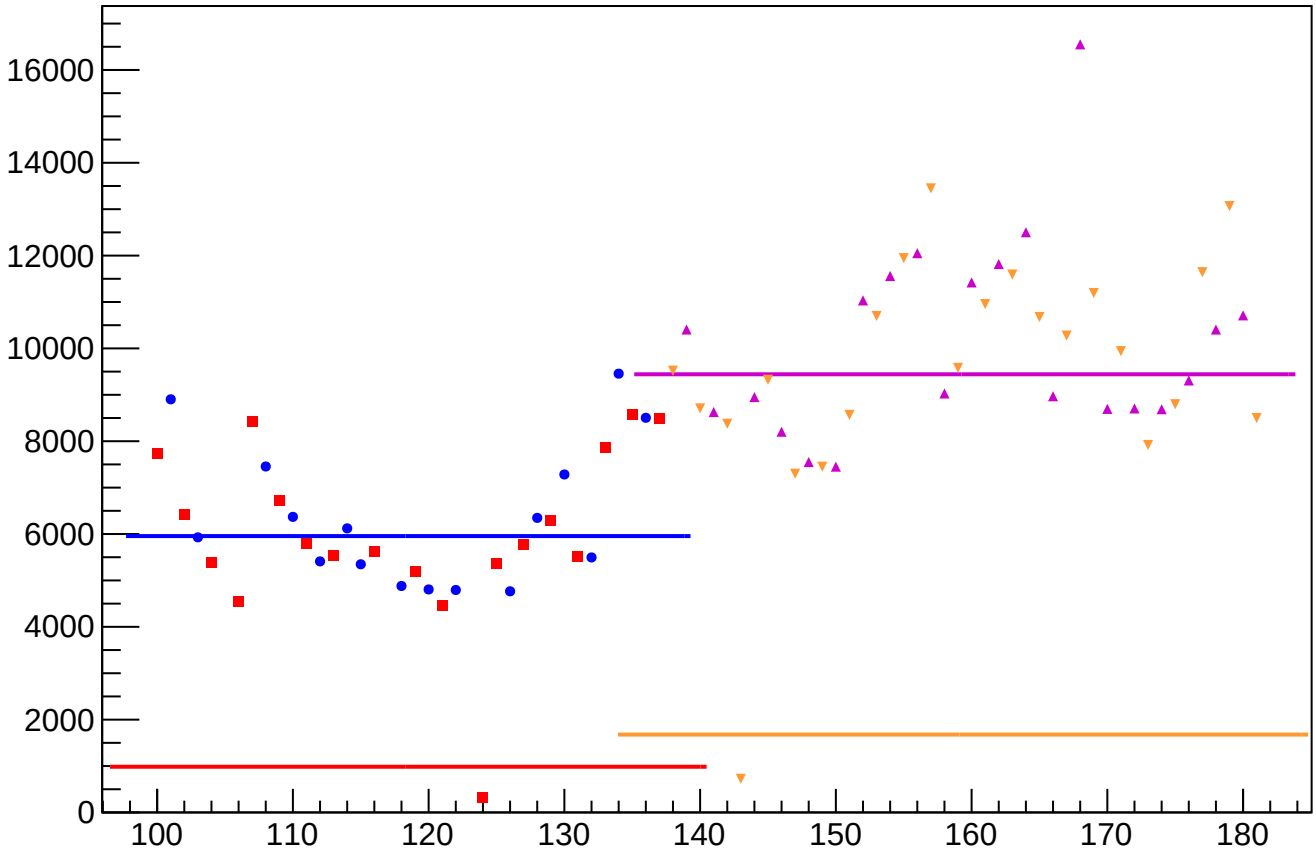
Right: 2027.795+/-0.380 $\chi^2$/NDF: 653567.8/34

In: 2290.296+/-0.331 $\chi^2$/NDF:972059.0/36

Out: 2297.835+/-0.326 $\chi^2$/NDF:1657820.1/41

All: 2294.120+/-0.232 $\chi^2$/NDF: 2630142.6/78


asym_atl2_eigen_cor_correction_mean vs Slug, Sign Corrected
60000
40000
20000
0
−20000
−40000
100
110
120
130
140
150
160
170
180
Right In: -1037.942+/-2276.180 χ²/NDF: 15.4/15
Left Out: -1137.151+/-761.646 χ²/NDF:30.7/22
Right Out: 530.662+/-767.947 χ²/NDF: 18.0/18
Left In: 588.180+/-2317.495 χ²/NDF:12.2/20
Left: -968.963+/-723.571 χ²/NDF: 43.5/43
Right: 370.358+/-727.649 χ²/NDF: 33.8/34
In: -239.505+/-1623.912 χ²/NDF:27.8/36
Out: -310.116+/-540.779 χ²/NDF:51.2/41
All: -303.067+/-513.078 χ²/NDF: 79.0/78




Right In: 5955.638+/-1.610 $\chi^2$/NDF: 689141.5/15

Left Out: 1678.196+/-0.539 $\chi^2$/NDF:26472656.8/22

Right Out: 985.045+/-0.543 $\chi^2$/NDF: 11412843.1/18

Left In: 9442.199+/-1.639 $\chi^2$/NDF:1065989.0/20

Left: 2435.046+/-0.512 $\chi^2$/NDF: 47797729.6/43

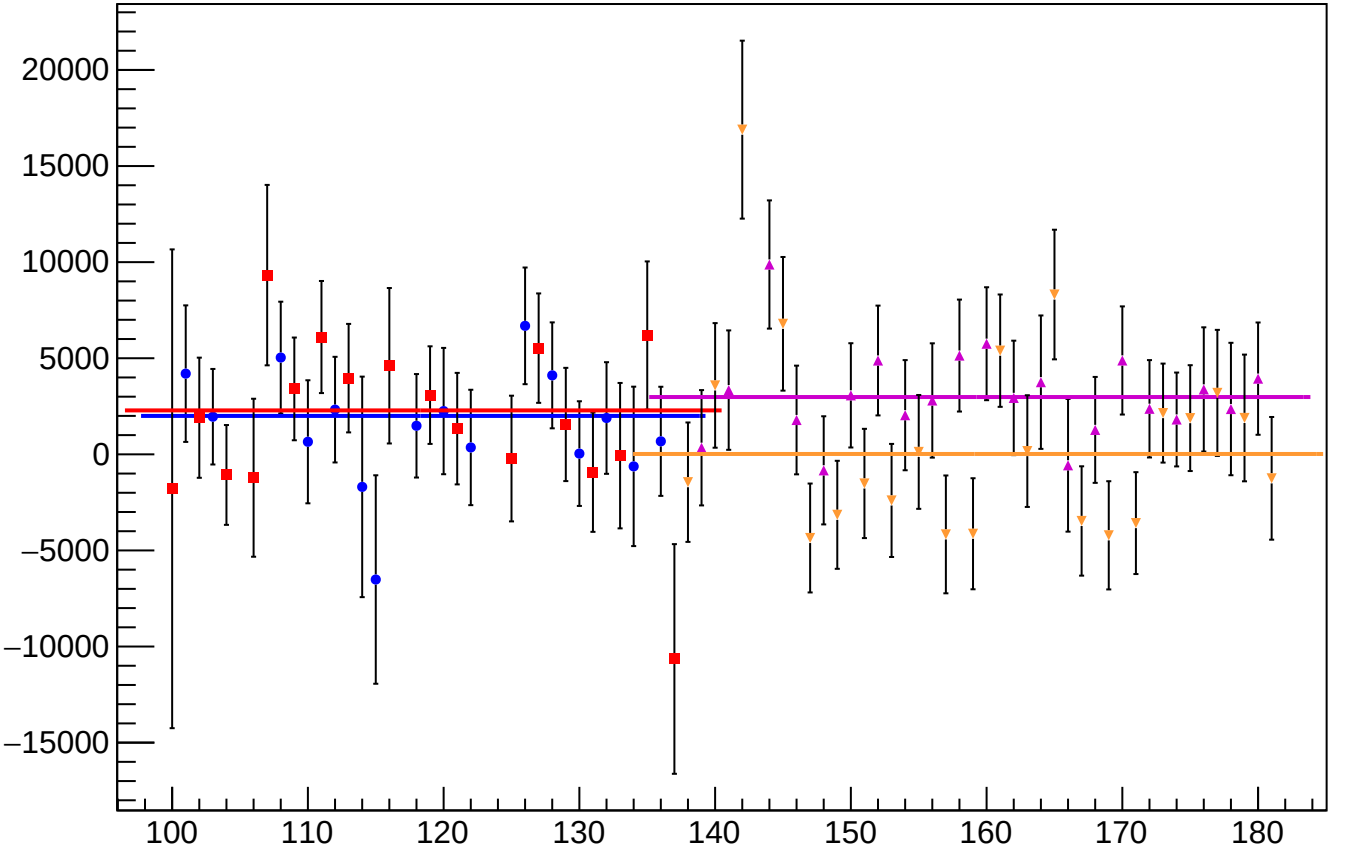
Right: 1493.016+/-0.515 $\chi^2$/NDF: 20664769.2/34

In: 7667.564+/-1.148 $\chi^2$/NDF:4059217.0/36

Out: 1334.476+/-0.382 $\chi^2$/NDF:38706905.0/41

All: 1966.679+/-0.363 $\chi^2$/NDF: 70147964.0/7

# dit_asym_atl2_mean vs Slug, Sign Corrected




Right In: 1999.214+/-773.538 $\chi^2$/NDF: 9.0/15

Left Out: 18.867+/-640.162 $\chi^2$/NDF:44.7/21

Right Out: 2285.899+/-771.299 $\chi^2$/NDF: 16.7/17

Left In: 2981.770+/-640.002 $\chi^2$/NDF:11.5/20

Left: 1500.690+/-452.606 $\chi^2$/NDF: 66.8/42

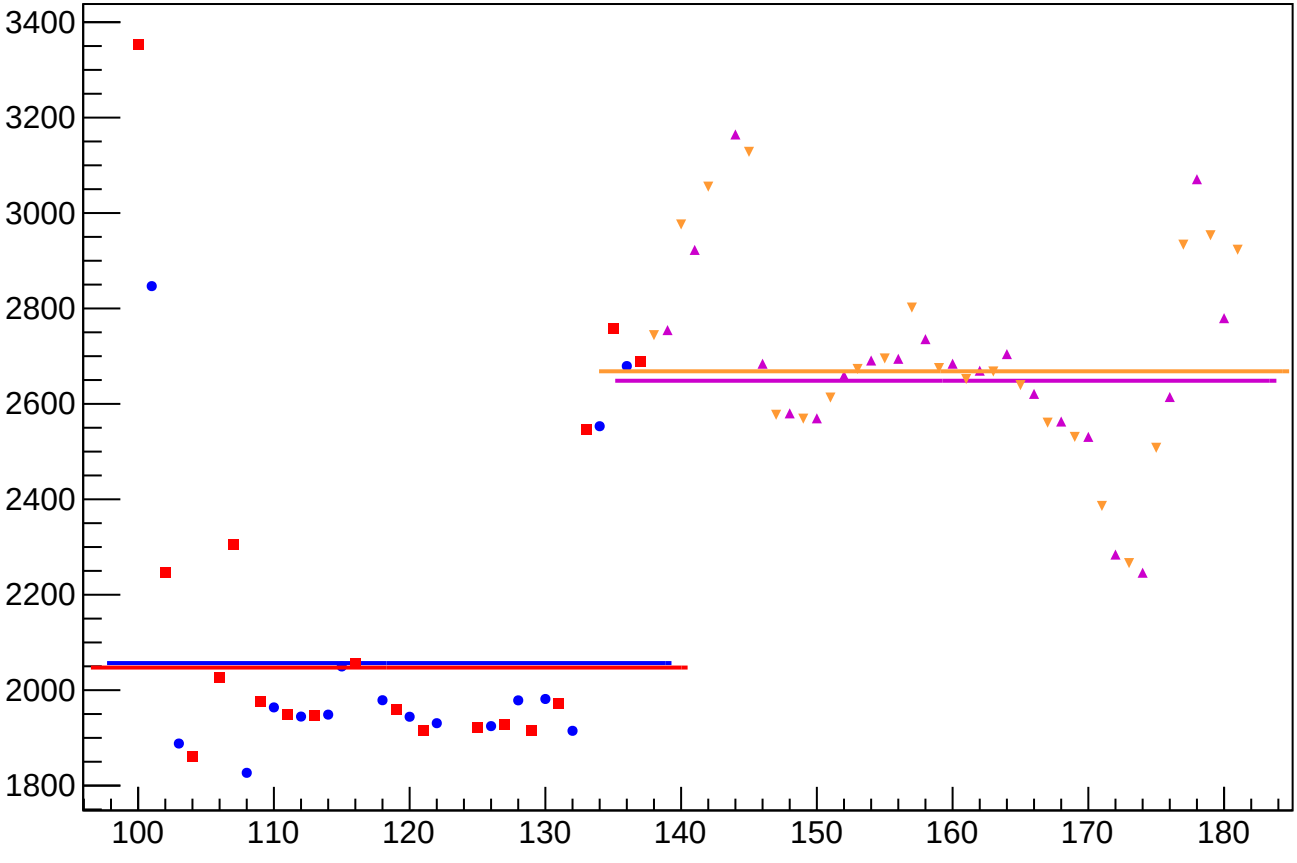
Right: 2142.972+/-546.180 $\chi^2$/NDF: 25.7/33

In: 2582.492+/-493.106 $\chi^2$/NDF:21.4/36

Out: 943.560+/-492.598 $\chi^2$/NDF:66.4/39

All: 1762.181+/-348.499 $\chi^2$/NDF: 93.4/76

# dit_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2056.796+/-0.547 $\chi^2$/NDF: 270454.5/15

Left Out: 2668.303+/-0.453 $\chi^2$/NDF:204296.9/21

Right Out: 2047.400+/-0.545 $\chi^2$/NDF: 196523.0/17

Left In: 2648.492+/-0.453 $\chi^2$/NDF:208336.1/20

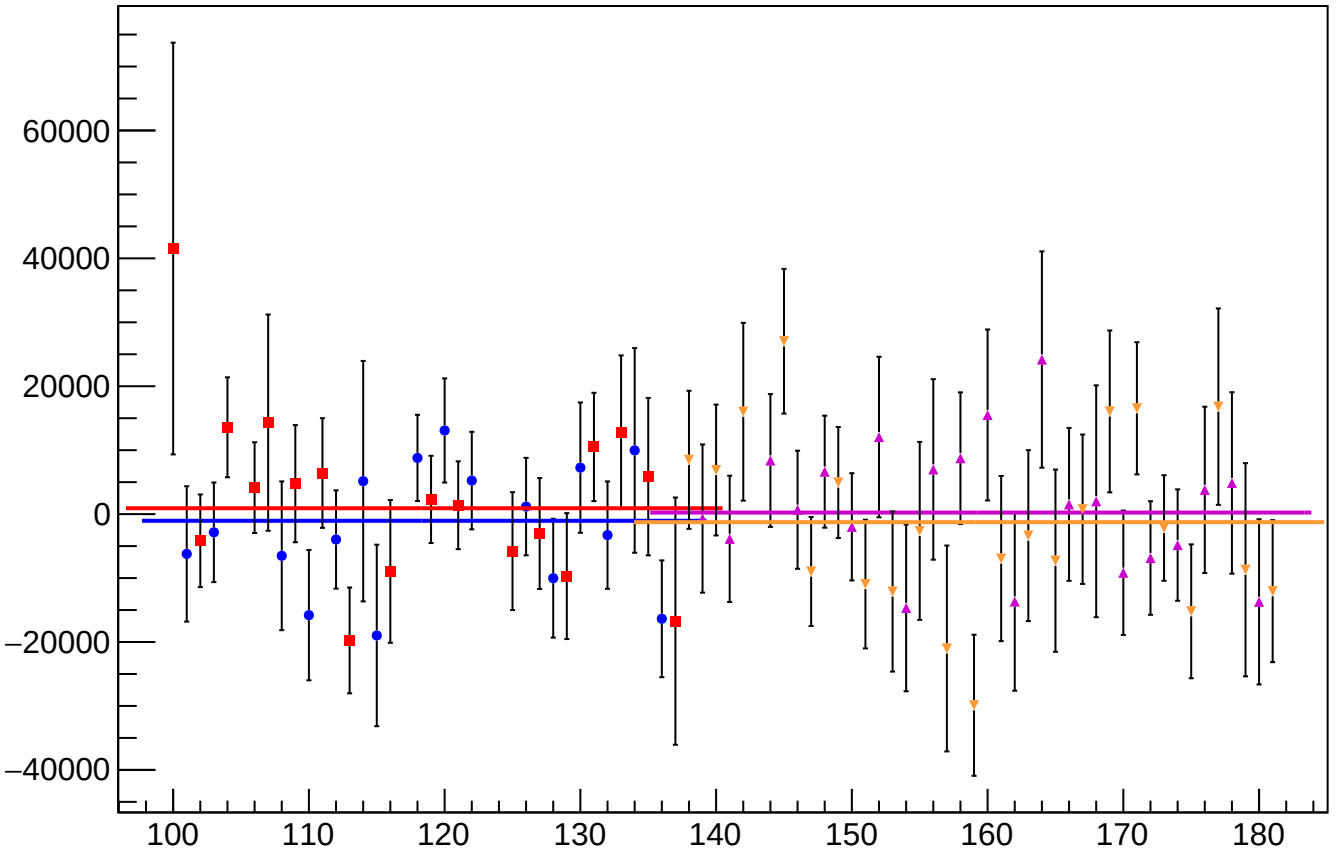
Left: 2658.395+/-0.320 $\chi^2$/NDF: 413591.0/42

Right: 2052.077+/-0.386 $\chi^2$/NDF: 467125.7/33

In: 2408.046+/-0.349 $\chi^2$/NDF:1173468.4/36

Out: 2414.592+/-0.348 $\chi^2$/NDF:1169619.0/39

All: 2411.324+/-0.246 $\chi^2$/NDF: 2343263.9/76




Right In: -1042.515+/-2294.607 $\chi^2$/NDF: 15.3/15

Left Out: -1254.700+/-2419.490 $\chi^2$/NDF:30.1/21

Right Out: 919.663+/-2150.895 $\chi^2$/NDF: 18.4/17

Left In: 246.547+/-2423.909 $\chi^2$/NDF:12.1/20

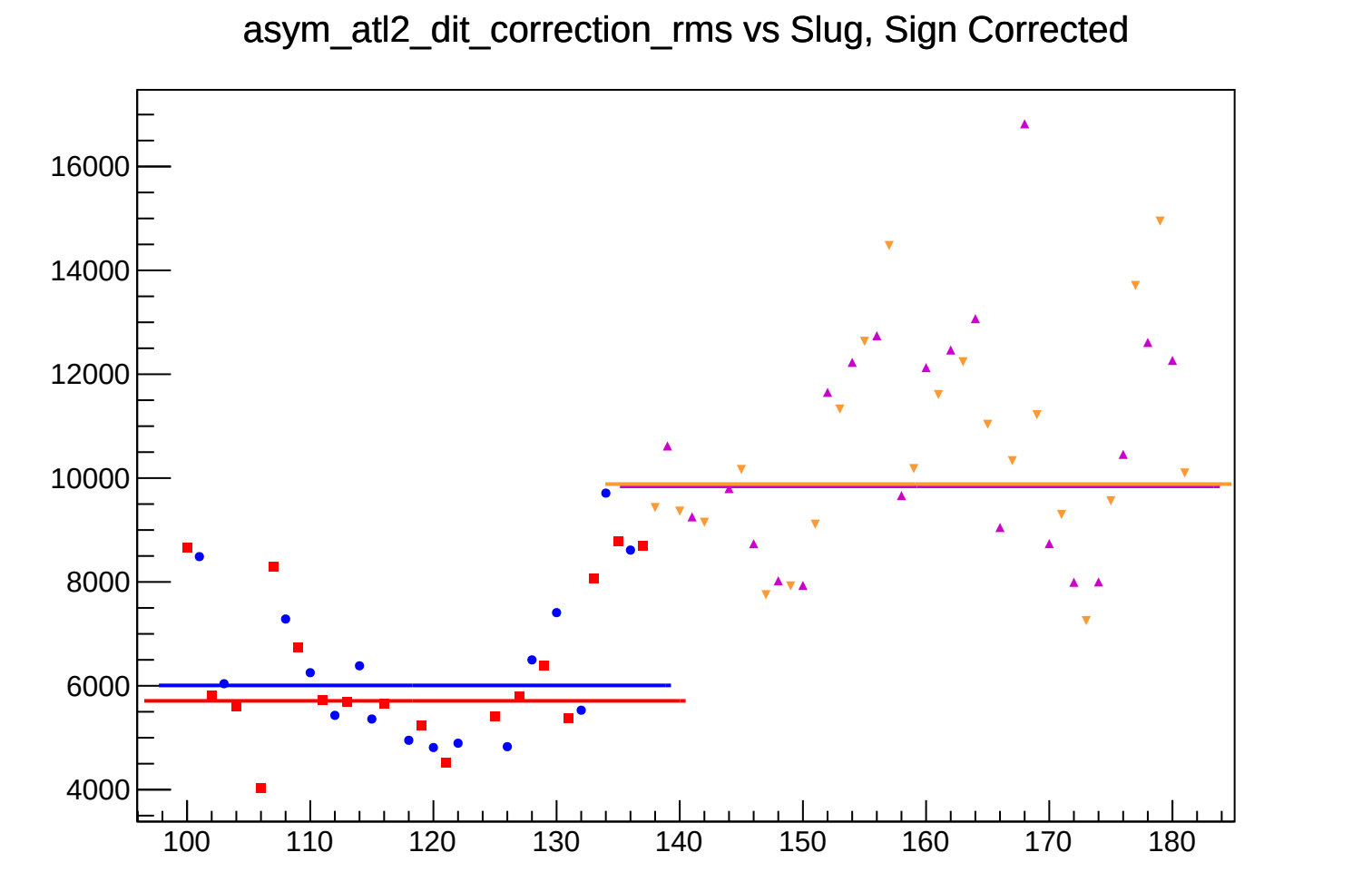
Left: -505.447+/-1712.398 $\chi^2$/NDF: 42.4/42

Right: 1.940+/-1569.260 $\chi^2$/NDF: 34.1/33

In: -433.282+/-1666.369 $\chi^2$/NDF:27.6/36

Out: -40.175+/-1607.521 $\chi^2$/NDF:48.9/39

All: -229.664+/-1156.934 $\chi^2$/NDF: 76.5/76




Right In: 6007.425+/-1.623 $\chi^2$/NDF: 653996.7/15

Left Out: 9885.043+/-1.711 $\chi^2$/NDF:1180072.5/21

Right Out: 5709.903+/-1.521 $\chi^2$/NDF: 535926.2/17

Left In: 9840.739+/-1.714 $\chi^2$/NDF:1288394.5/20

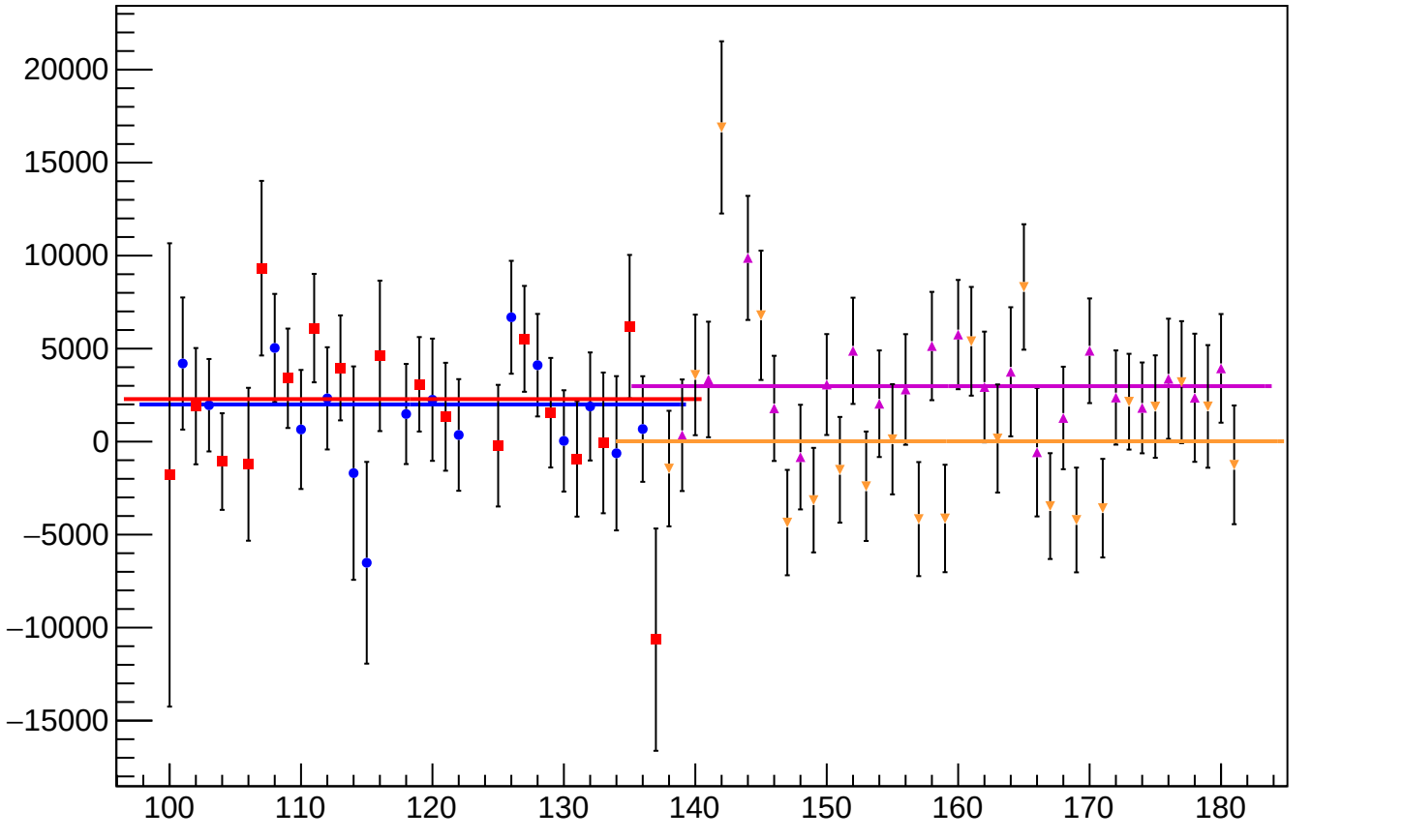
Left: 9862.932+/-1.211 $\chi^2$/NDF: 2468801.6/42

Right: 5849.056+/-1.110 $\chi^2$/NDF: 1207820.8/33

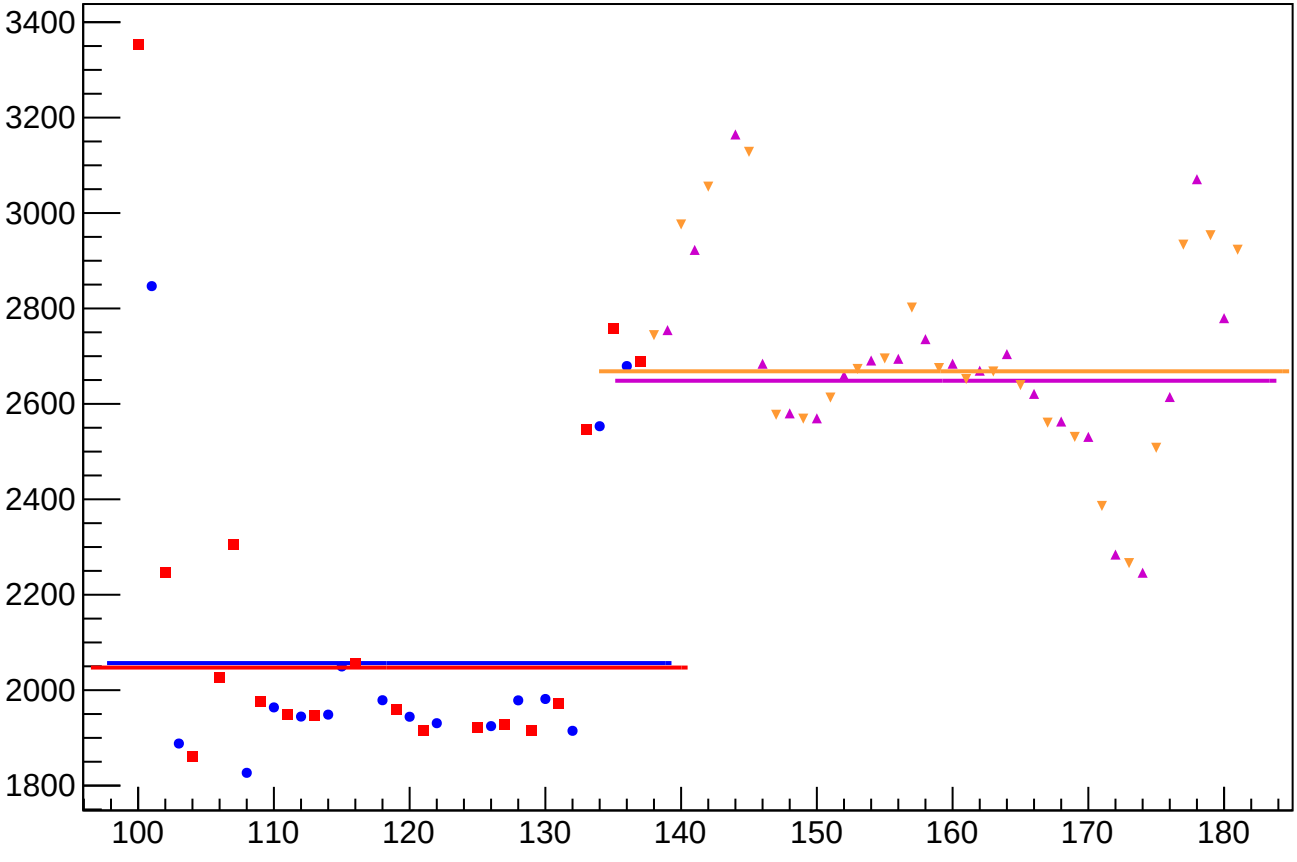
In: 7819.116+/-1.178 $\chi^2$/NDF:4580375.1/36

Out: 7552.950+/-1.137 $\chi^2$/NDF:5042589.2/39

All: 7681.250+/-0.818 $\chi^2$/NDF: 9649394.2/76


eigen_dit_asym_atl2_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 1999.218+/-773.538 χ²/NDF: 9.0/15
Left Out: 18.858+/-640.163 χ²/NDF:44.7/21
Right Out: 2285.903+/-771.299 χ²/NDF: 16.7/17
Left In: 2981.769+/-640.003 χ²/NDF:11.5/20
Left: 1500.685+/-452.607 χ²/NDF: 66.8/42
Right: 2142.976+/-546.180 χ²/NDF: 25.7/33
In: 2582.493+/-493.107 χ²/NDF:21.4/36
Out: 943.557+/-492.598 χ²/NDF:66.4/39
All: 1762.180+/-348.499 χ²/NDF: 93.4/76

# eigen_dit_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2056.796+/-0.547 $\chi^2$/NDF: 270454.5/15

Left Out: 2668.305+/-0.453 $\chi^2$/NDF:204307.7/21

Right Out: 2047.400+/-0.545 $\chi^2$/NDF: 196523.3/17

Left In: 2648.494+/-0.453 $\chi^2$/NDF:208345.9/20

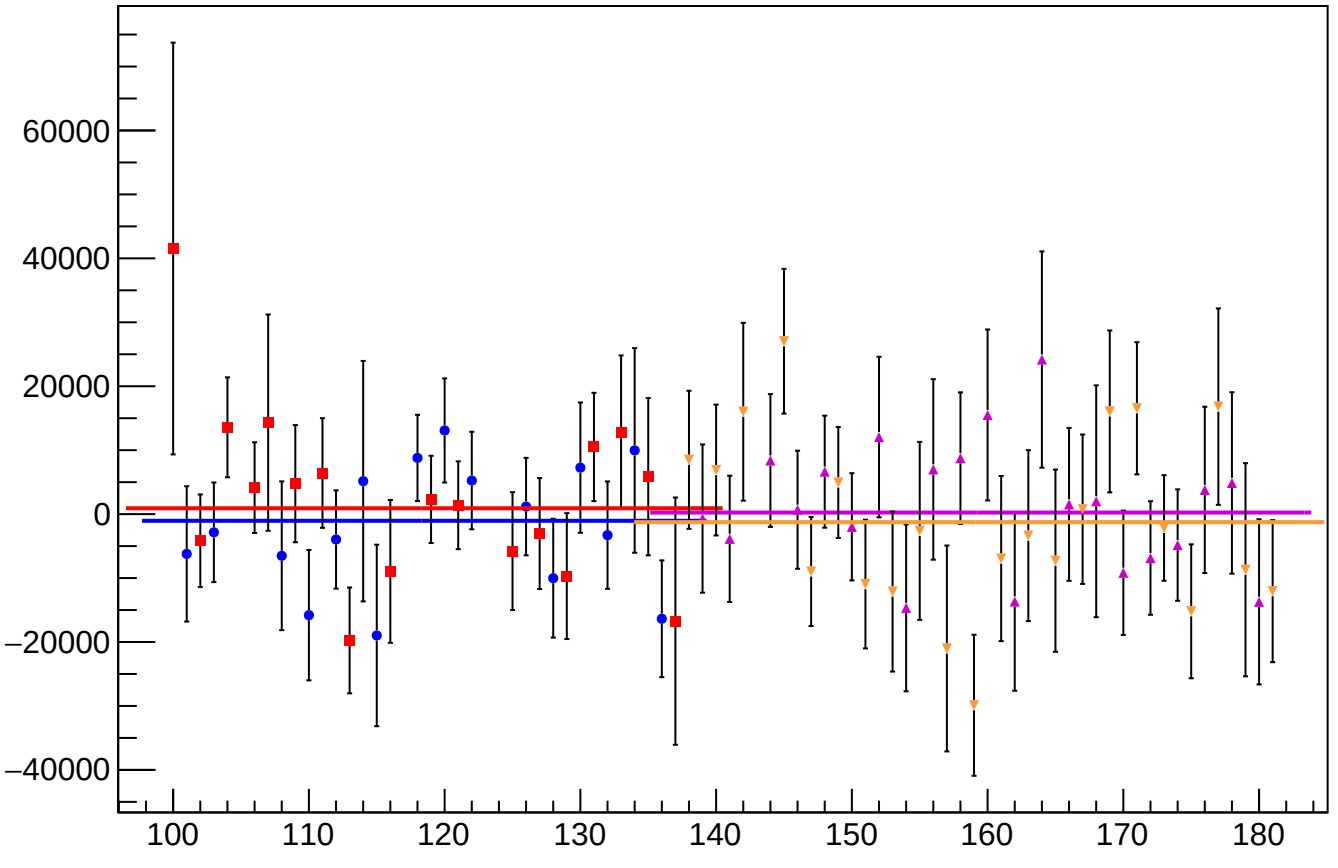
Left: 2658.397+/-0.320 $\chi^2$/NDF: 413611.5/42

Right: 2052.077+/-0.386 $\chi^2$/NDF: 467125.9/33

In: 2408.047+/-0.349 $\chi^2$/NDF:1173482.1/36

Out: 2414.592+/-0.348 $\chi^2$/NDF:1169634.7/39

All: 2411.325+/-0.246 $\chi^2$/NDF: 2343293.3/76




Right In: -1042.503+/-2294.600 $\chi^2$/NDF: 15.3/15

Left Out: -1254.710+/-2419.494 $\chi^2$/NDF:30.1/21

Right Out: 919.667+/-2150.889 $\chi^2$/NDF: 18.4/17

Left In: 246.548+/-2423.913 $\chi^2$/NDF:12.1/20

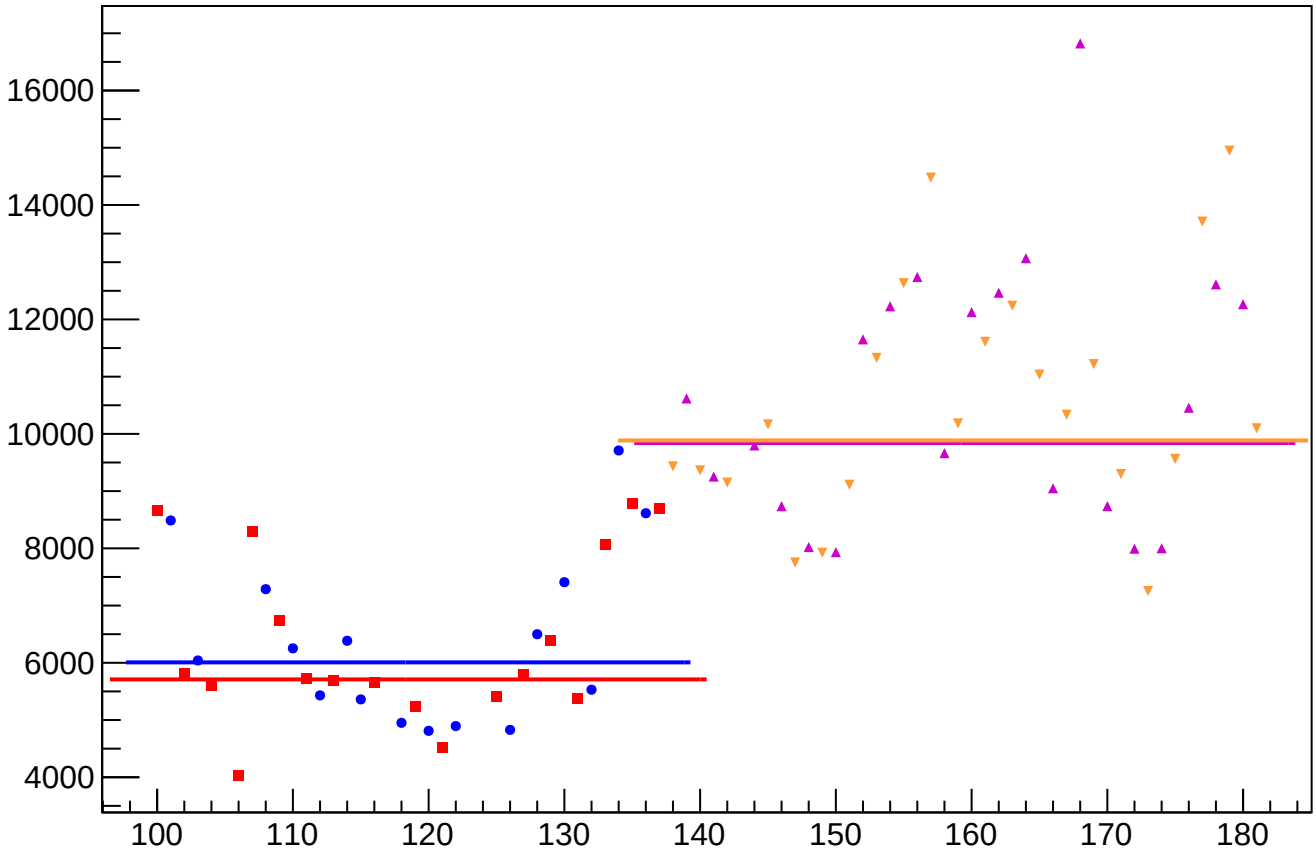
Left: -505.451+/-1712.401 $\chi^2$/NDF: 42.4/42

Right: 1.948+/-1569.255 $\chi^2$/NDF: 34.1/33

In: -433.278+/-1666.368 $\chi^2$/NDF:27.6/36

Out: -40.171+/-1607.519 $\chi^2$/NDF:48.9/39

All: -229.661+/-1156.933 $\chi^2$/NDF: 76.5/76




Right In: 6007.405+/-1.623 $\chi^2$/NDF: 654004.9/15

Left Out: 9885.060+/-1.711 $\chi^2$/NDF:1180072.7/21

Right Out: 5709.885+/-1.521 $\chi^2$/NDF: 535929.9/17

Left In: 9840.755+/-1.714 $\chi^2$/NDF:1288395.8/20

Left: 9862.948+/-1.211 $\chi^2$/NDF: 2468803.2/42

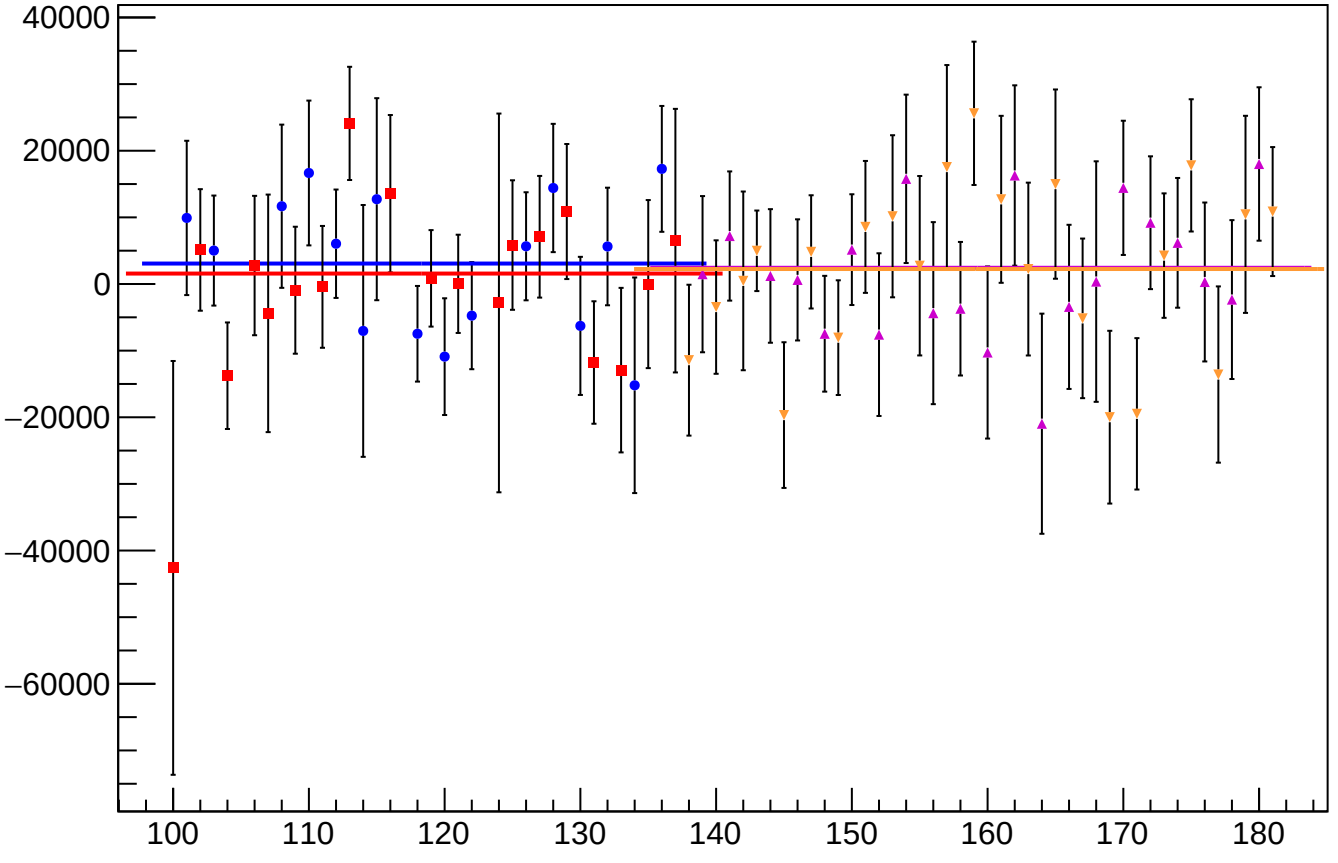
Right: 5849.037+/-1.110 $\chi^2$/NDF: 1207832.6/33

In: 7819.104+/-1.178 $\chi^2$/NDF:4580436.8/36

Out: 7552.939+/-1.137 $\chi^2$/NDF:5042649.6/39

All: 7681.239+/-0.818 $\chi^2$/NDF: 9649516.4/76

# asym_atl2_mean vs Slug, Sign Corrected




Right In: 3070.293+/-2420.721 $\chi^2$/NDF: 14.9/15

Left Out: 2249.115+/-2223.033 $\chi^2$/NDF:27.6/22

Right Out: 1567.088+/-2335.884 $\chi^2$/NDF: 19.2/18

Left In: 2434.424+/-2405.219 $\chi^2$/NDF:12.4/20

Left: 2334.486+/-1632.534 $\chi^2$/NDF: 40.1/43

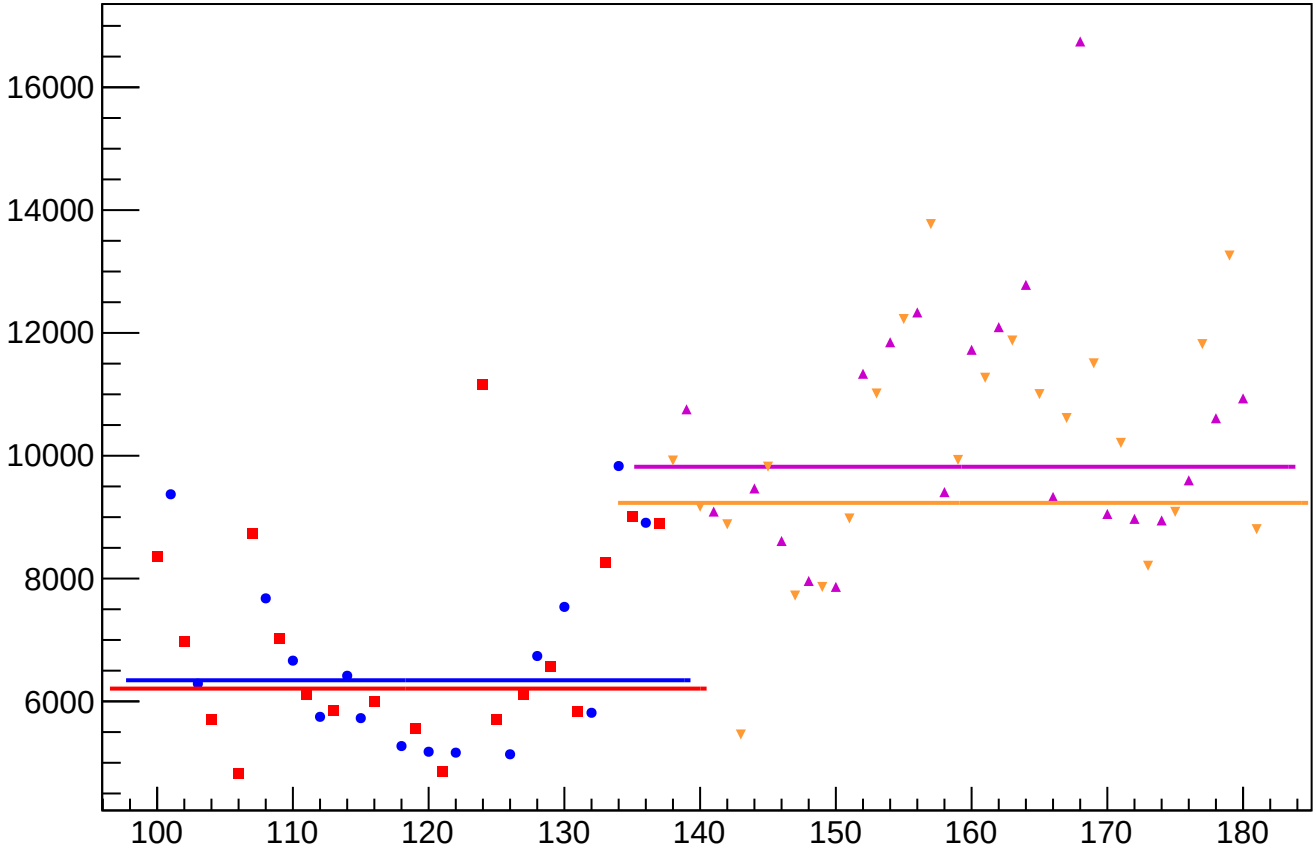
Right: 2291.888+/-1680.911 $\chi^2$/NDF: 34.3/34

In: 2750.316+/-1706.201 $\chi^2$/NDF:27.3/36

Out: 1924.974+/-1610.339 $\chi^2$/NDF:46.9/41

All: 2313.809+/-1171.105 $\chi^2$/NDF: 74.3/78

# asym_atl2_rms vs Slug, Sign Corrected




Right In: 6343.796+/-1.712 $\chi^2$/NDF: 621240.2/15

Left Out: 9232.493+/-1.572 $\chi^2$/NDF:1757795.7/22

Right Out: 6208.099+/-1.652 $\chi^2$/NDF: 471840.9/18

Left In: 9820.589+/-1.701 $\chi^2$/NDF:950086.6/20

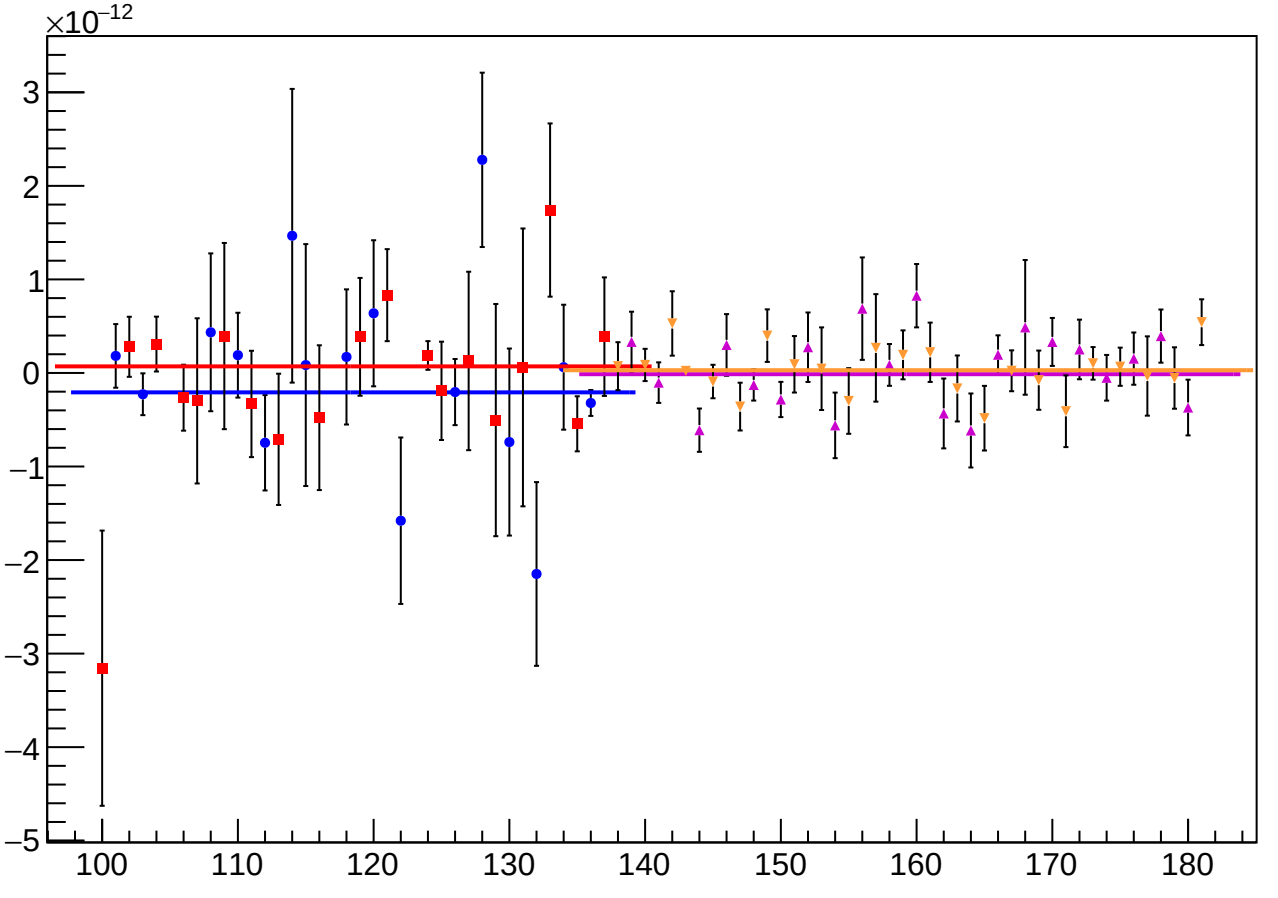
Left: 9503.427+/-1.154 $\chi^2$/NDF: 2772366.1/43

Right: 6273.528+/-1.189 $\chi^2$/NDF: 1096335.5/34

In: 8093.358+/-1.206 $\chi^2$/NDF:3647434.5/36

Out: 7795.111+/-1.139 $\chi^2$/NDF:3988971.5/41

All: 7935.621+/-0.828 $\chi^2$/NDF: 7668726.5/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:33.9/20

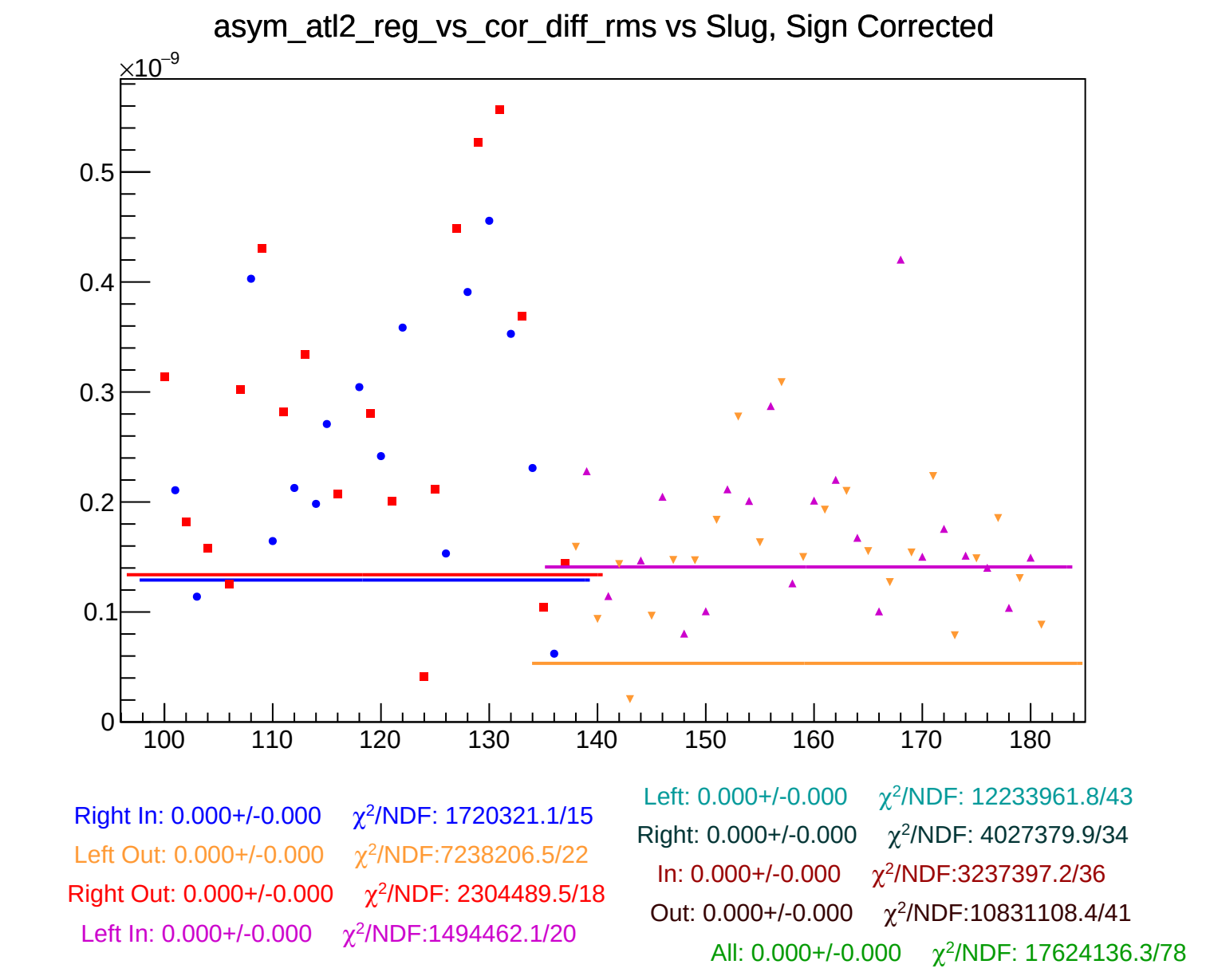
Left: 0.000+/-0.000 $\chi^2$/NDF: 51.6/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:57.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:38.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 99.2/78


asym_atl2_reg_vs_cor_diff_rms vs Slug, Sign Corrected
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0.1
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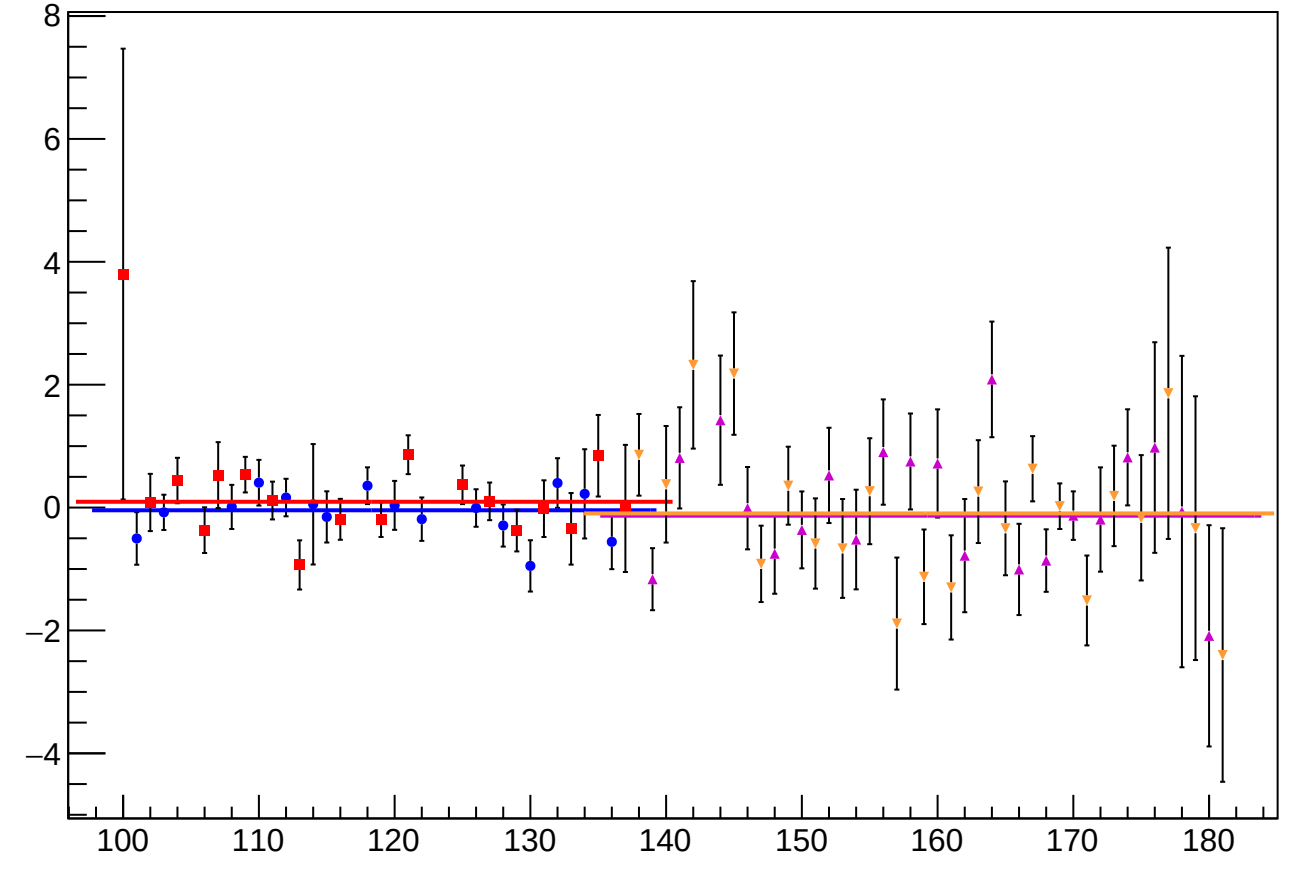
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1720321.1/15
Left Out: 0.000+/-0.000 χ²/NDF:7238206.5/22
Right Out: 0.000+/-0.000 χ²/NDF: 2304489.5/18
Left In: 0.000+/-0.000 χ²/NDF:1494462.1/20
Left: 0.000+/-0.000 χ²/NDF: 12233961.8/43
Right: 0.000+/-0.000 χ²/NDF: 4027379.9/34
In: 0.000+/-0.000 χ²/NDF:3237397.2/36
Out: 0.000+/-0.000 χ²/NDF:10831108.4/41
All: 0.000+/-0.000 χ²/NDF: 17624136.3/78




Right In: -0.044+/-0.094 $\chi^2$/NDF: 13.1/15

Left Out: -0.095+/-0.163 $\chi^2$/NDF:28.7/21

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.132+/-0.160 $\chi^2$/NDF:25.9/20

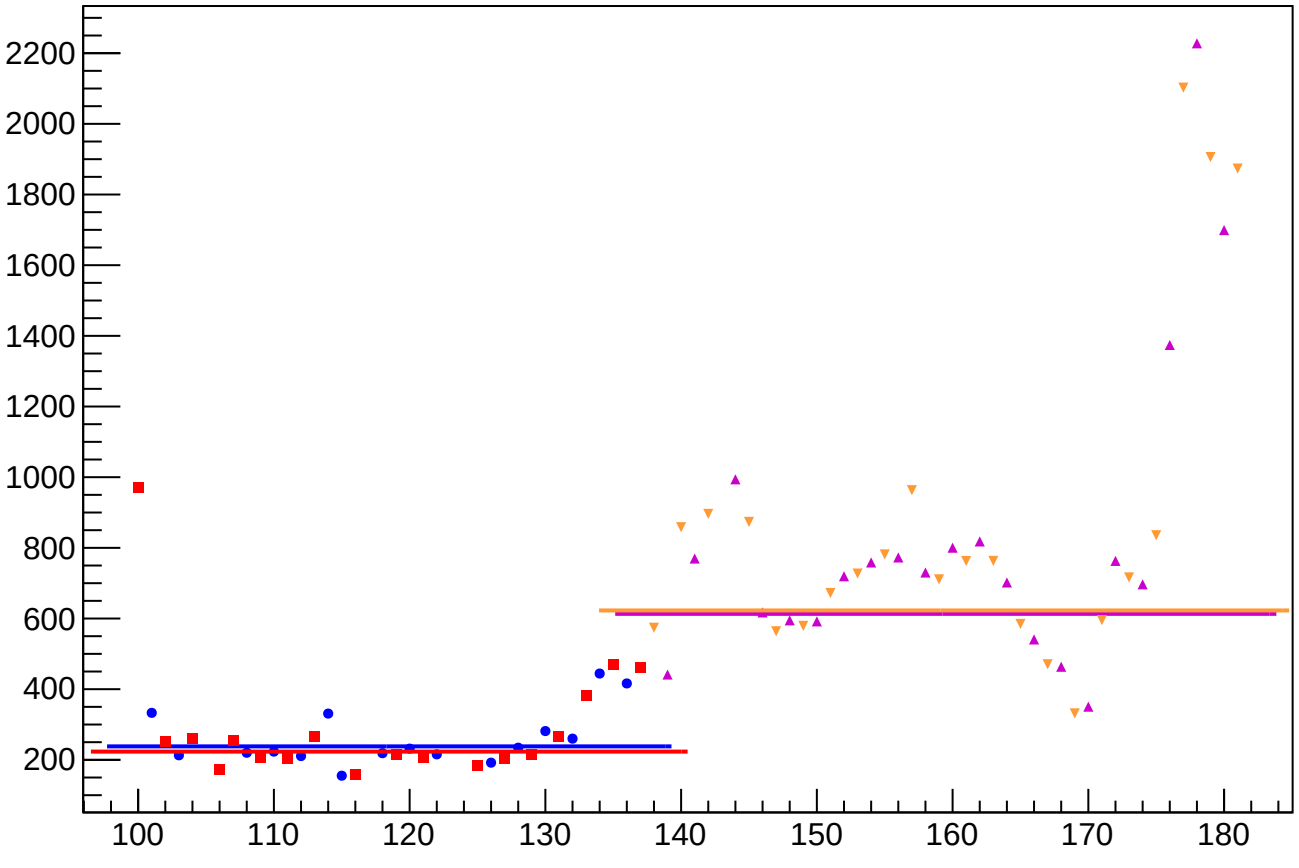
Left: -0.114+/-0.114 $\chi^2$/NDF: 54.7/42

Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.067+/-0.081 $\chi^2$/NDF:39.3/36

Out: 0.050+/-0.079 $\chi^2$/NDF:55.0/39

All: -0.007+/-0.056 $\chi^2$/NDF: 95.3/76




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807205.2/15

Left Out: 622.870+/-0.115 $\chi^2$/NDF:4563453.8/21

Right Out: 223.388+/-0.064 $\chi^2$/NDF: 862425.5/17

Left In: 613.214+/-0.113 $\chi^2$/NDF:4089837.0/20

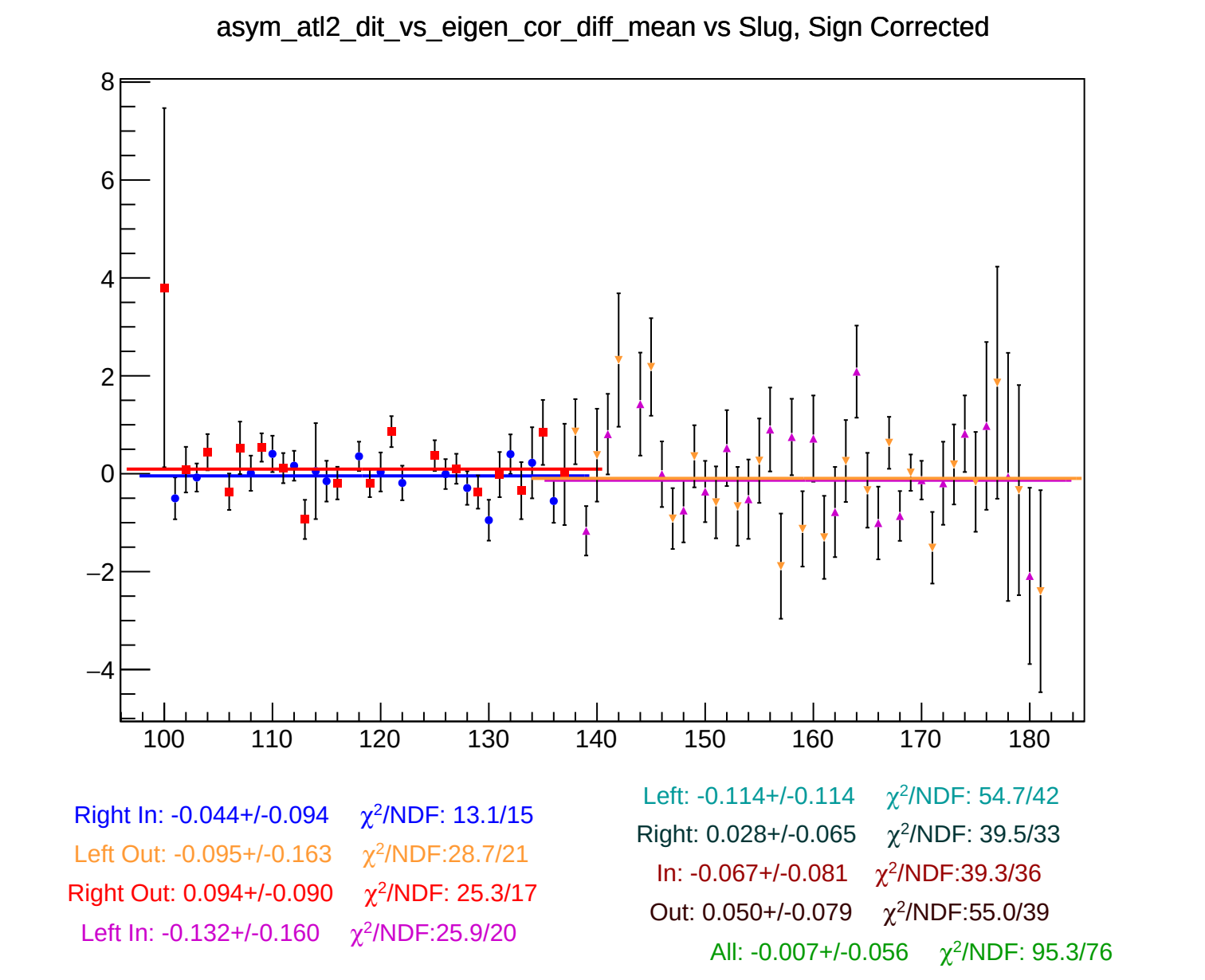
Left: 617.945+/-0.081 $\chi^2$/NDF: 8656866.6/42

Right: 230.474+/-0.046 $\chi^2$/NDF: 1695464.7/33

In: 334.224+/-0.057 $\chi^2$/NDF:13086584.4/36

Out: 316.678+/-0.056 $\chi^2$/NDF:14620789.7/39

All: 325.223+/-0.040 $\chi^2$/NDF: 27755633.6/76


asym_atl2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
8
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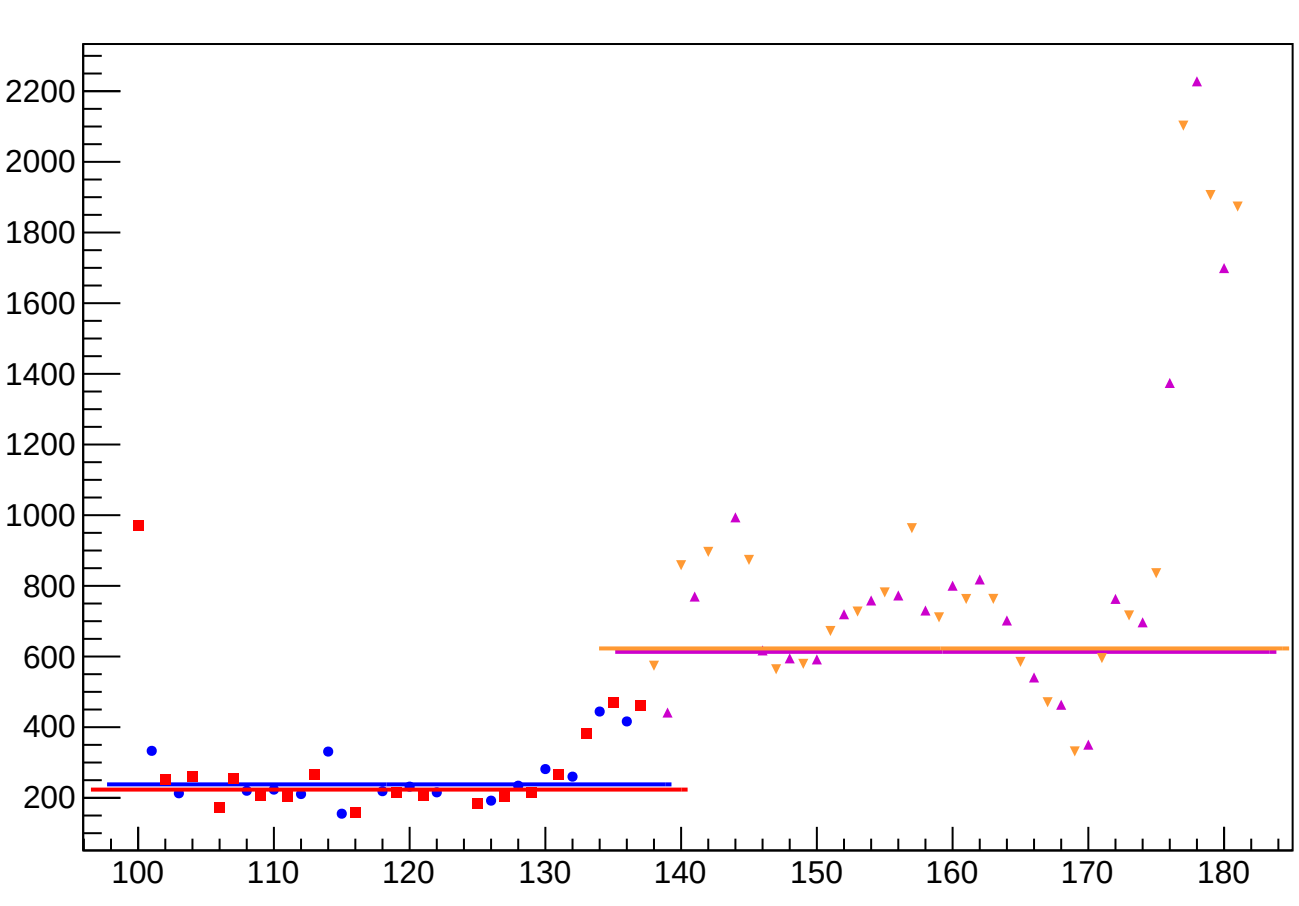
160
170
180
Right In: -0.044+/-0.094 χ²/NDF: 13.1/15
Left Out: -0.095+/-0.163 χ²/NDF:28.7/21
Right Out: 0.094+/-0.090 χ²/NDF: 25.3/17
Left In: -0.132+/-0.160 χ²/NDF:25.9/20
Left: -0.114+/-0.114 χ²/NDF: 54.7/42
Right: 0.028+/-0.065 χ²/NDF: 39.5/33
In: -0.067+/-0.081 χ²/NDF:39.3/36
Out: 0.050+/-0.079 χ²/NDF:55.0/39
All: -0.007+/-0.056 χ²/NDF: 95.3/76




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807205.2/15

Left Out: 622.870+/-0.115 $\chi^2$/NDF:4563453.8/21

Right Out: 223.388+/-0.064 $\chi^2$/NDF: 862425.5/17

Left In: 613.214+/-0.113 $\chi^2$/NDF:4089837.0/20

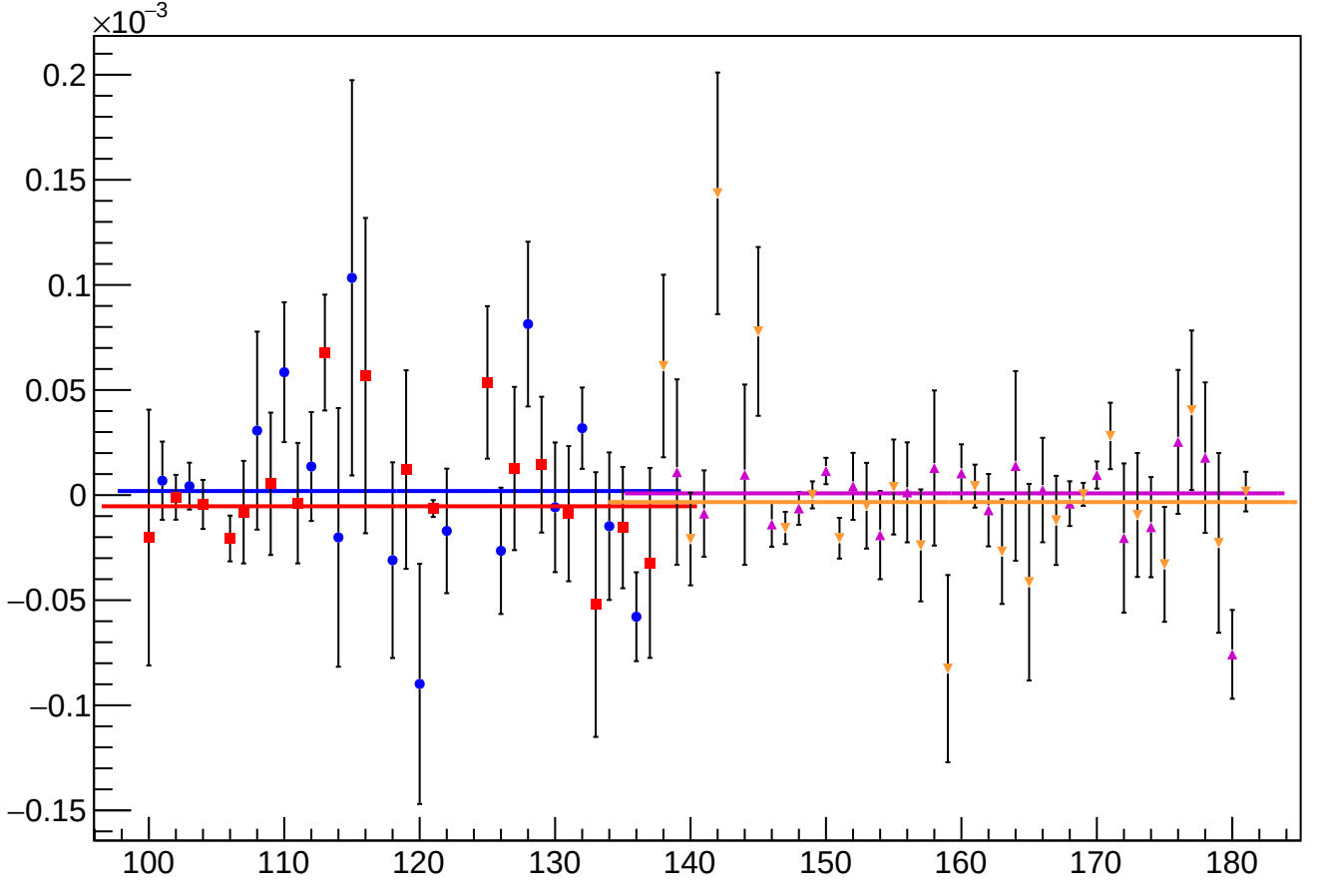
Left: 617.945+/-0.081 $\chi^2$/NDF: 8656866.6/42

Right: 230.474+/-0.046 $\chi^2$/NDF: 1695464.7/33

In: 334.224+/-0.057 $\chi^2$/NDF:13086584.4/36

Out: 316.678+/-0.056 $\chi^2$/NDF:14620789.7/39

All: 325.223+/-0.040 $\chi^2$/NDF: 27755633.6/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 24.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:33.1/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:24.5/20

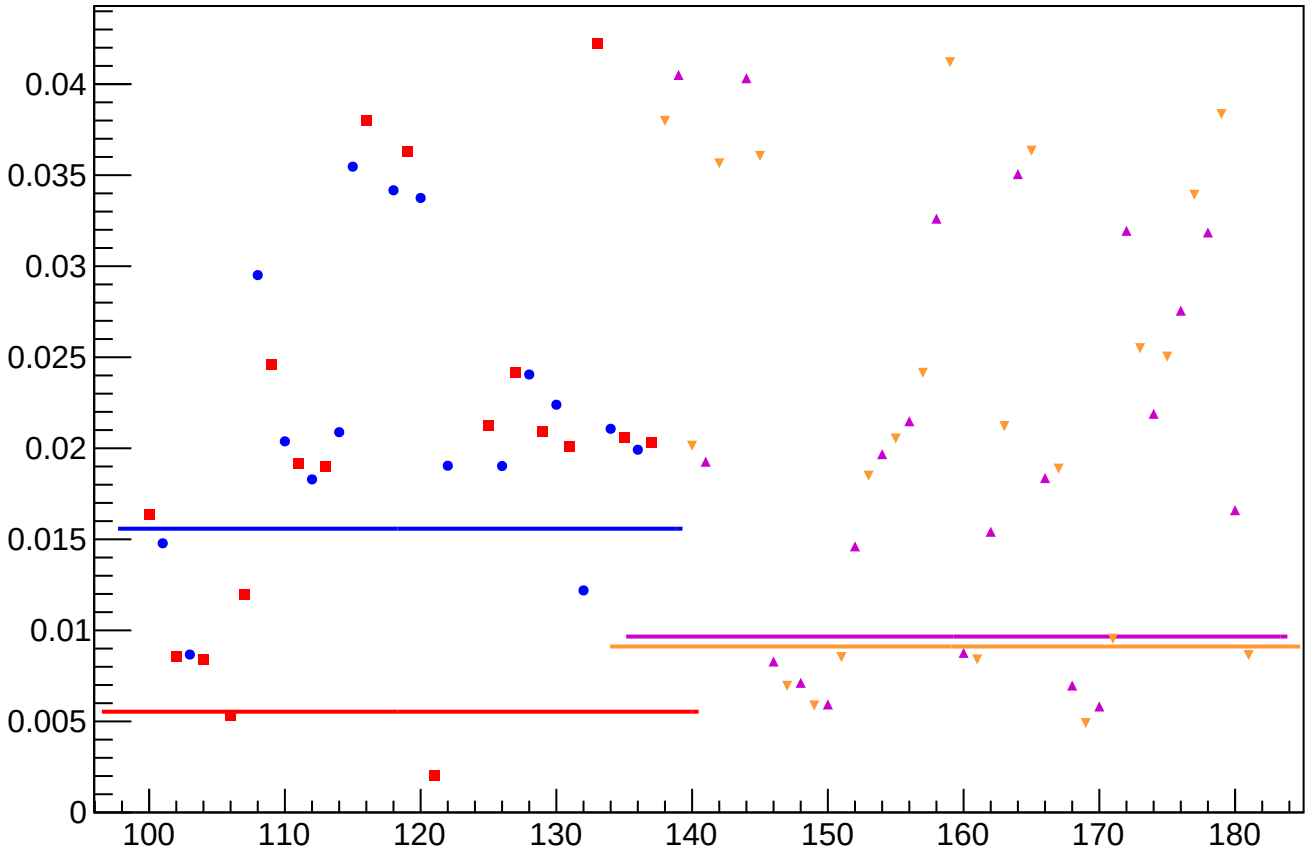
Left: -0.000+/-0.000 $\chi^2$/NDF: 58.7/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:48.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:47.9/39

All: -0.000+/-0.000 $\chi^2$/NDF: 98.8/76




Right In: 0.016+/-0.000 $\chi^2$/NDF: 2074656.7/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:11851978.7/21

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 7954965.8/17

Left In: 0.010+/-0.000 $\chi^2$/NDF:10095890.3/20

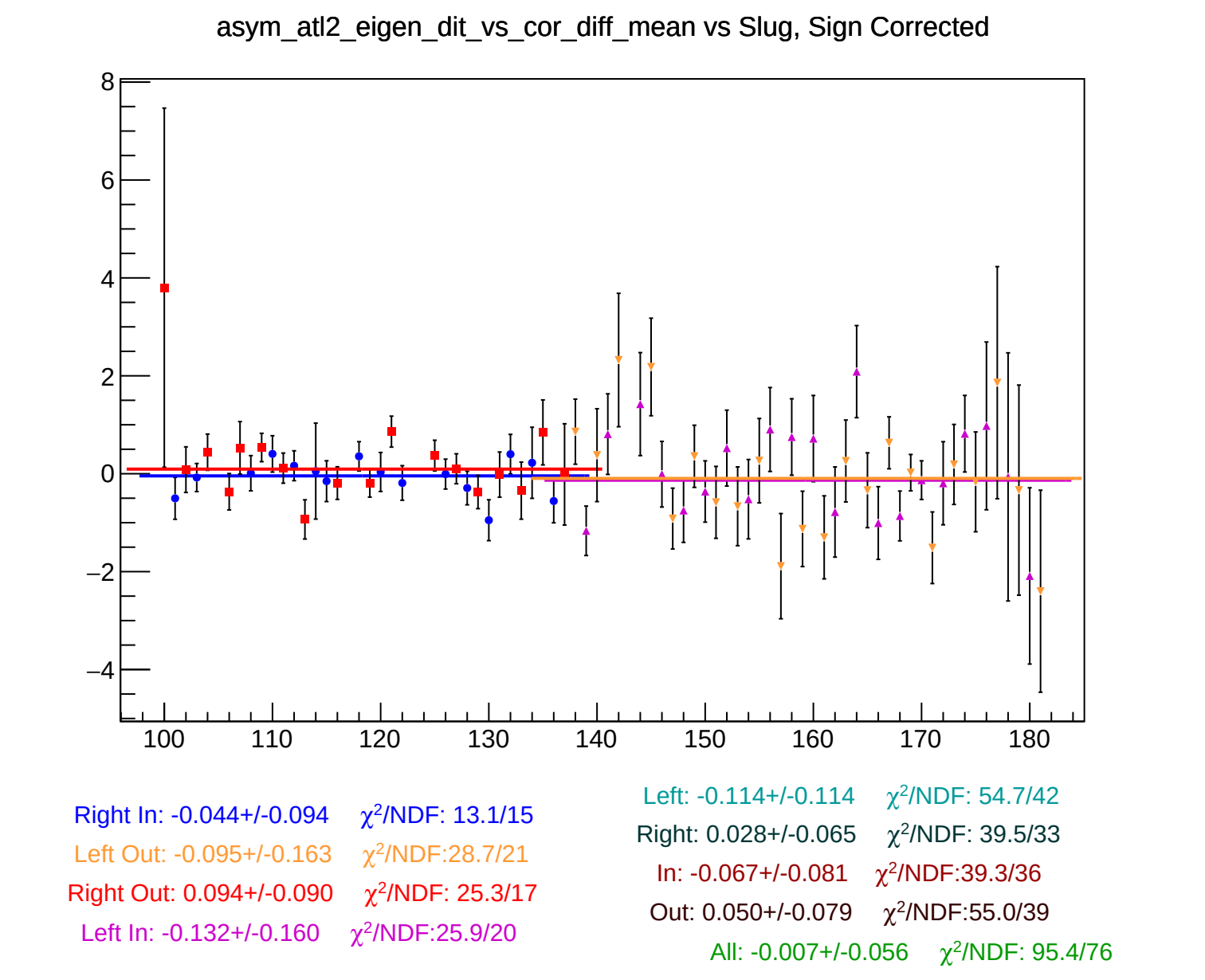
Left: 0.009+/-0.000 $\chi^2$/NDF: 21983971.8/42

Right: 0.008+/-0.000 $\chi^2$/NDF: 13999634.8/33

In: 0.011+/-0.000 $\chi^2$/NDF:13587741.0/36

Out: 0.008+/-0.000 $\chi^2$/NDF:21225492.2/39

All: 0.009+/-0.000 $\chi^2$/NDF: 36517439.0/76


asym_atl2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
8
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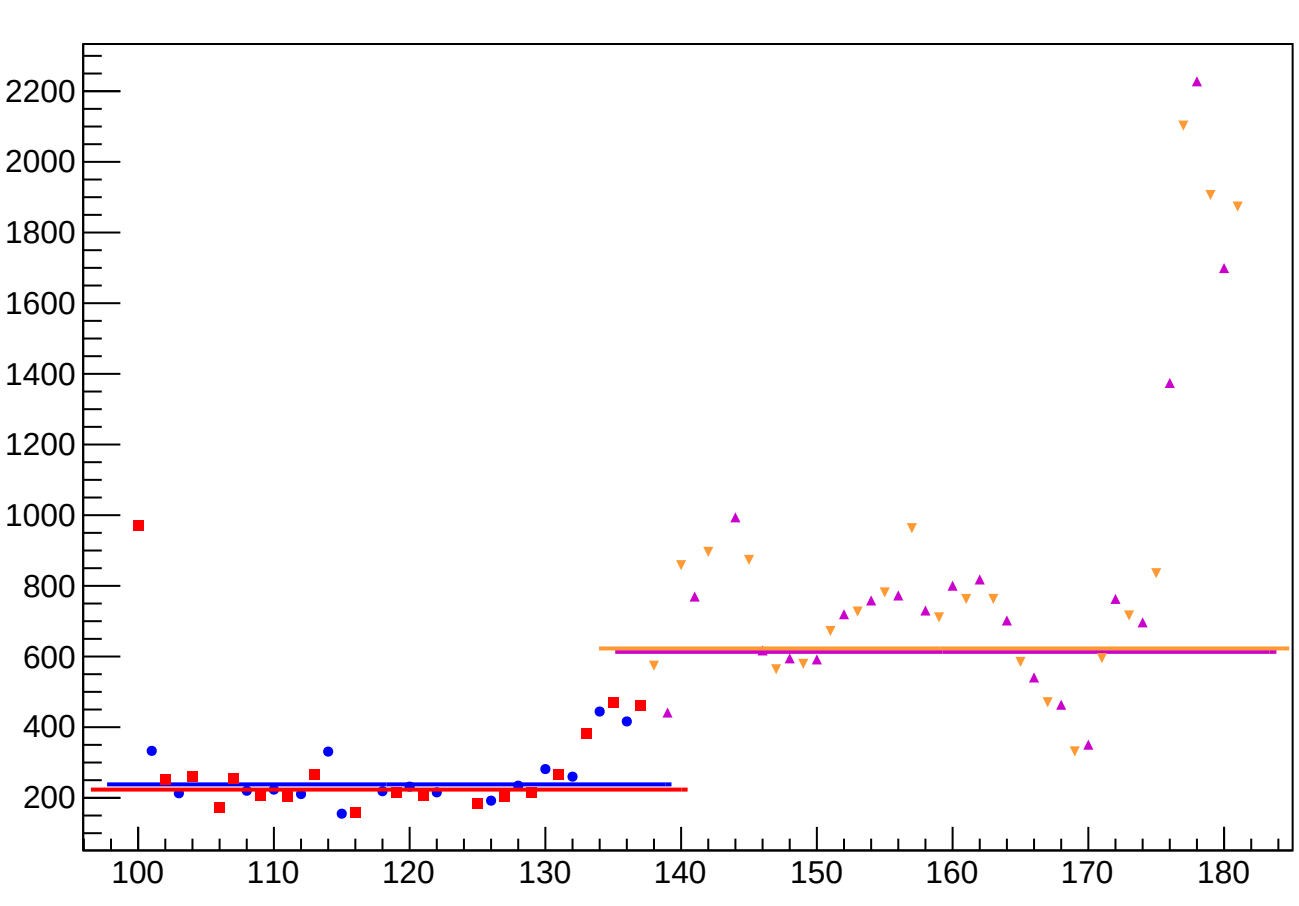
160
170
180
Right In: -0.044+/-0.094 χ²/NDF: 13.1/15
Left Out: -0.095+/-0.163 χ²/NDF:28.7/21
Right Out: 0.094+/-0.090 χ²/NDF: 25.3/17
Left In: -0.132+/-0.160 χ²/NDF:25.9/20
Left: -0.114+/-0.114 χ²/NDF: 54.7/42
Right: 0.028+/-0.065 χ²/NDF: 39.5/33
In: -0.067+/-0.081 χ²/NDF:39.3/36
Out: 0.050+/-0.079 χ²/NDF:55.0/39
All: -0.007+/-0.056 χ²/NDF: 95.4/76




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807170.1/15

Left Out: 622.874+/-0.115 $\chi^2$/NDF:4563515.0/21

Right Out: 223.390+/-0.064 $\chi^2$/NDF: 862366.3/17

Left In: 613.220+/-0.113 $\chi^2$/NDF:4089821.5/20

Left: 617.949+/-0.081 $\chi^2$/NDF: 8656910.3/42

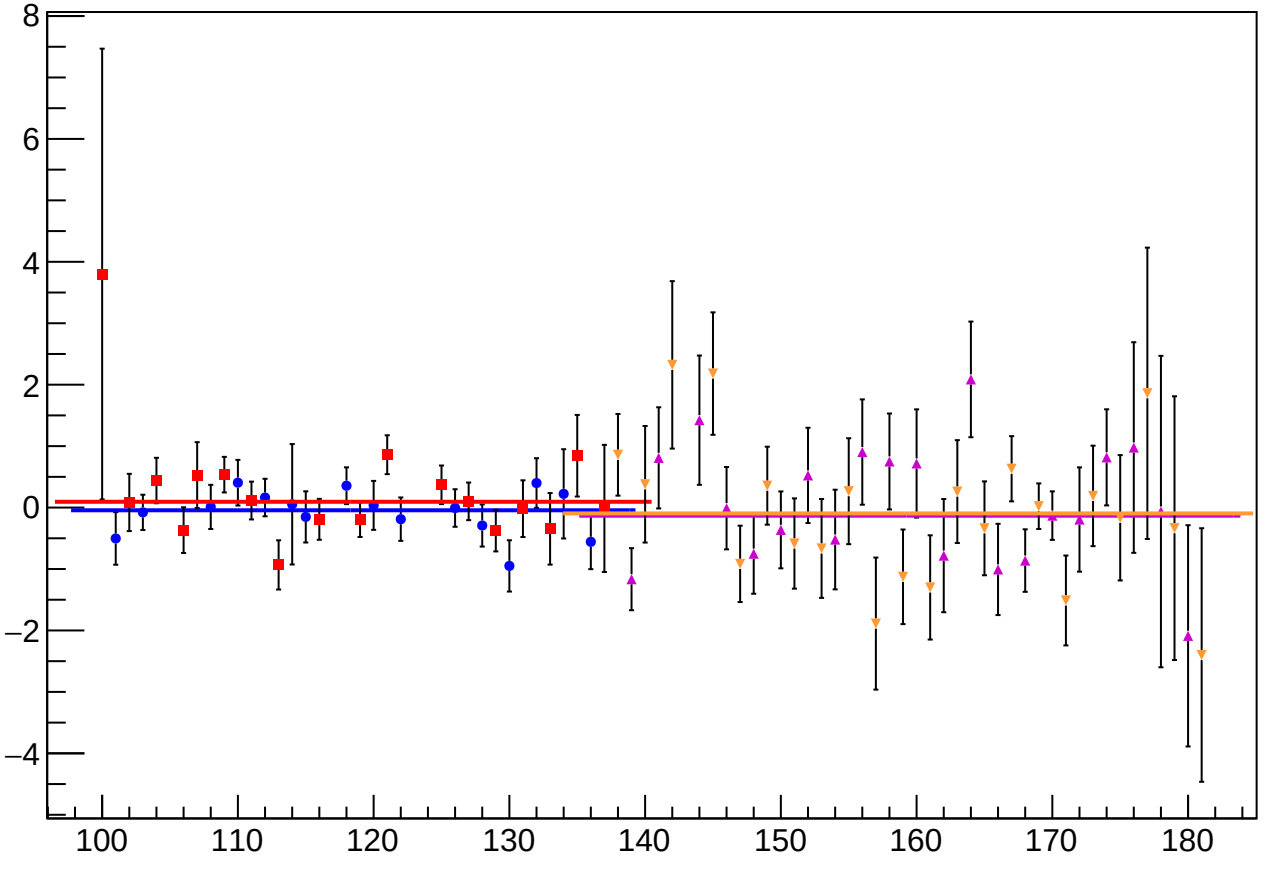
Right: 230.475+/-0.046 $\chi^2$/NDF: 1695367.2/33

In: 334.225+/-0.057 $\chi^2$/NDF:13086642.3/36

Out: 316.680+/-0.056 $\chi^2$/NDF:14620778.5/39

All: 325.224+/-0.040 $\chi^2$/NDF: 27755676.5/76

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.044+/-0.094 $\chi^2$/NDF: 13.1/15

Left Out: -0.095+/-0.163 $\chi^2$/NDF:28.7/21

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.132+/-0.160 $\chi^2$/NDF:25.9/20

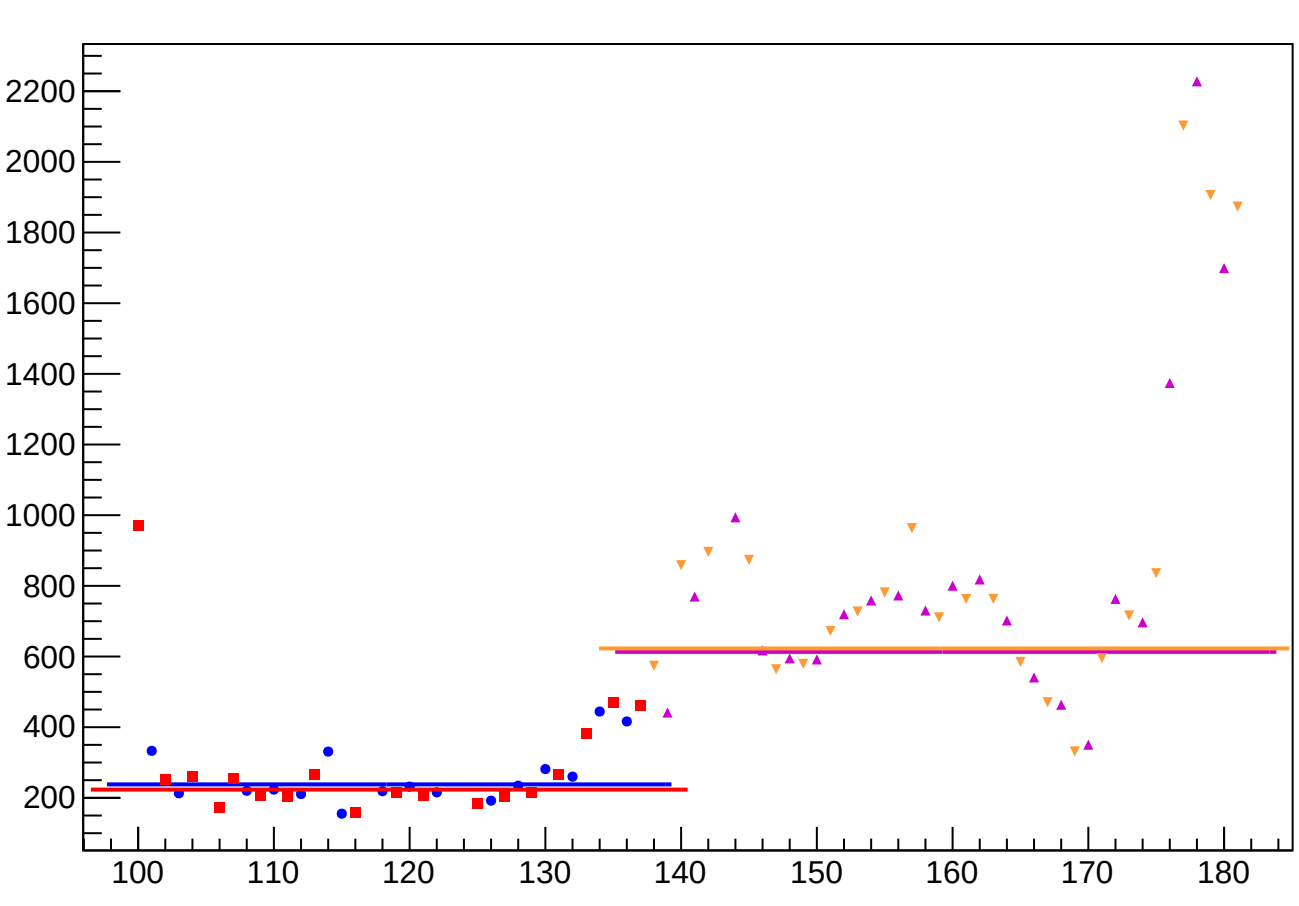
Left: -0.114+/-0.114 $\chi^2$/NDF: 54.7/42

Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.067+/-0.081 $\chi^2$/NDF:39.3/36

Out: 0.050+/-0.079 $\chi^2$/NDF:55.0/39

All: -0.007+/-0.056 $\chi^2$/NDF: 95.4/76




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807170.1/15

Left Out: 622.874+/-0.115 $\chi^2$/NDF:4563515.0/21

Right Out: 223.390+/-0.064 $\chi^2$/NDF: 862366.3/17

Left In: 613.220+/-0.113 $\chi^2$/NDF:4089821.5/20

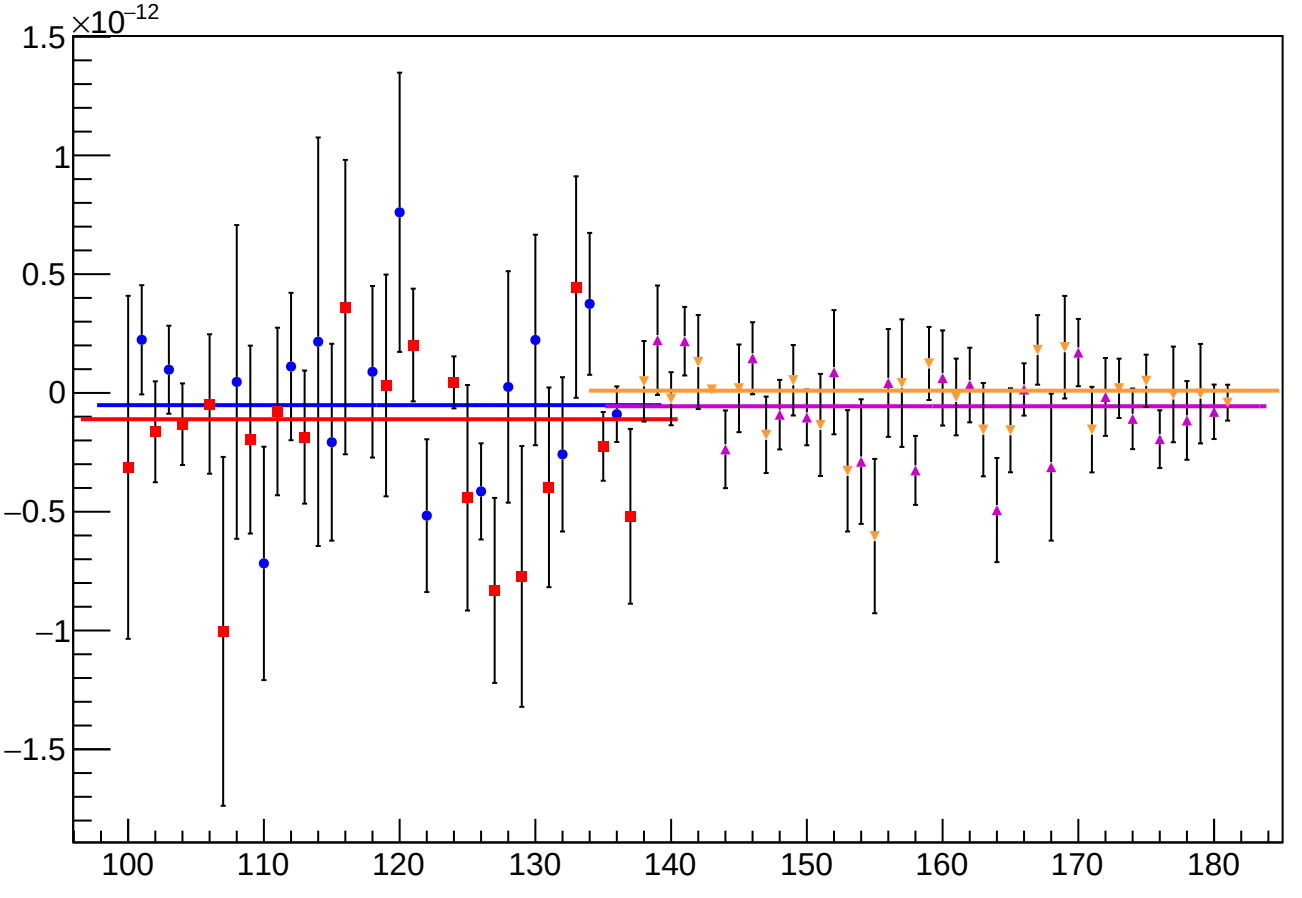
Left: 617.949+/-0.081 $\chi^2$/NDF: 8656910.3/42

Right: 230.475+/-0.046 $\chi^2$/NDF: 1695367.2/33

In: 334.225+/-0.057 $\chi^2$/NDF:13086642.3/36

Out: 316.680+/-0.056 $\chi^2$/NDF:14620778.5/39

All: 325.224+/-0.040 $\chi^2$/NDF: 27755676.5/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.5/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:23.0/20

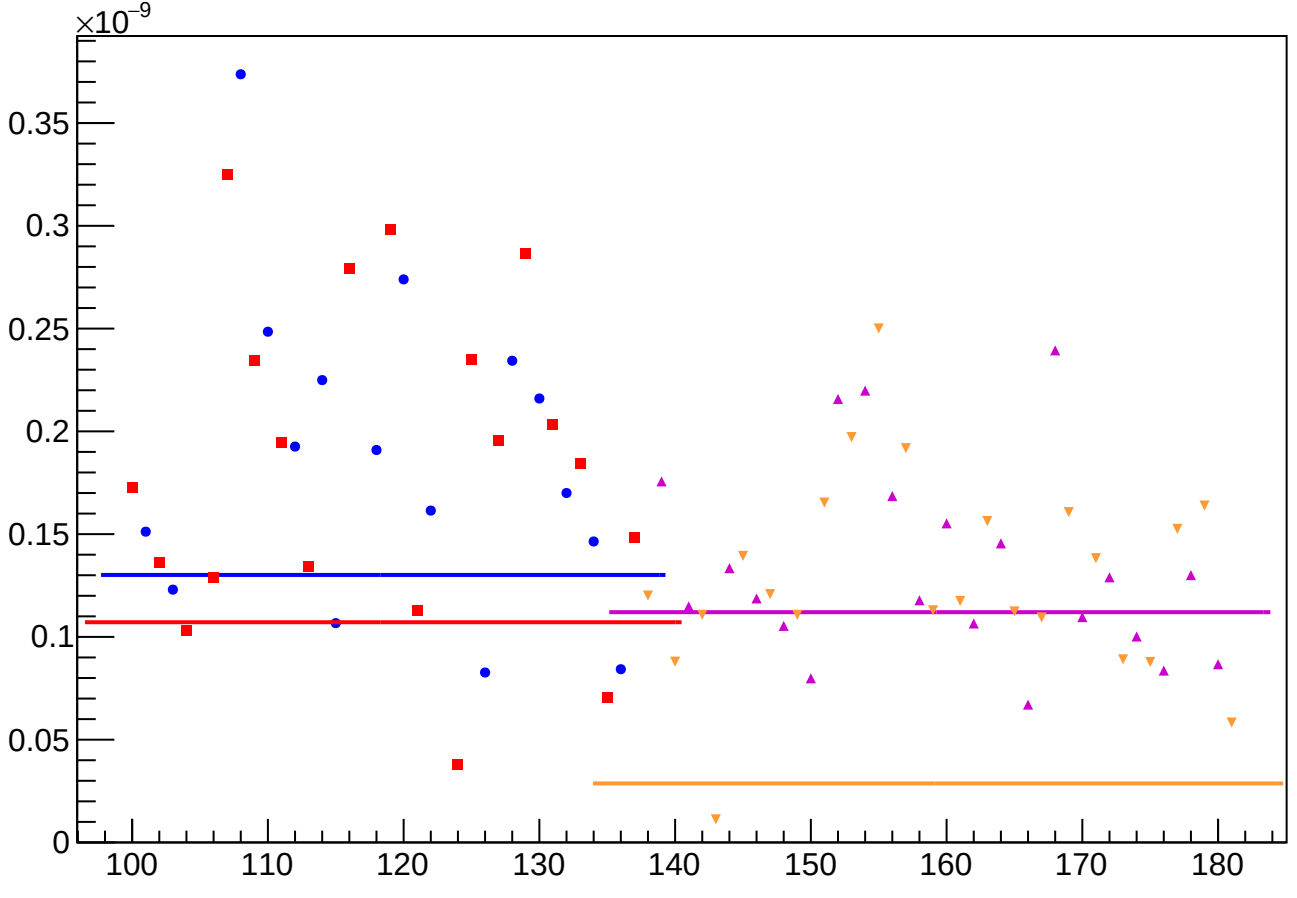
Left: 0.000+/-0.000 $\chi^2$/NDF: 39.7/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:37.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:32.8/41

All: -0.000+/-0.000 $\chi^2$/NDF: 73.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1334266.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:16921658.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2656168.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2211048.8/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 29474220.2/43

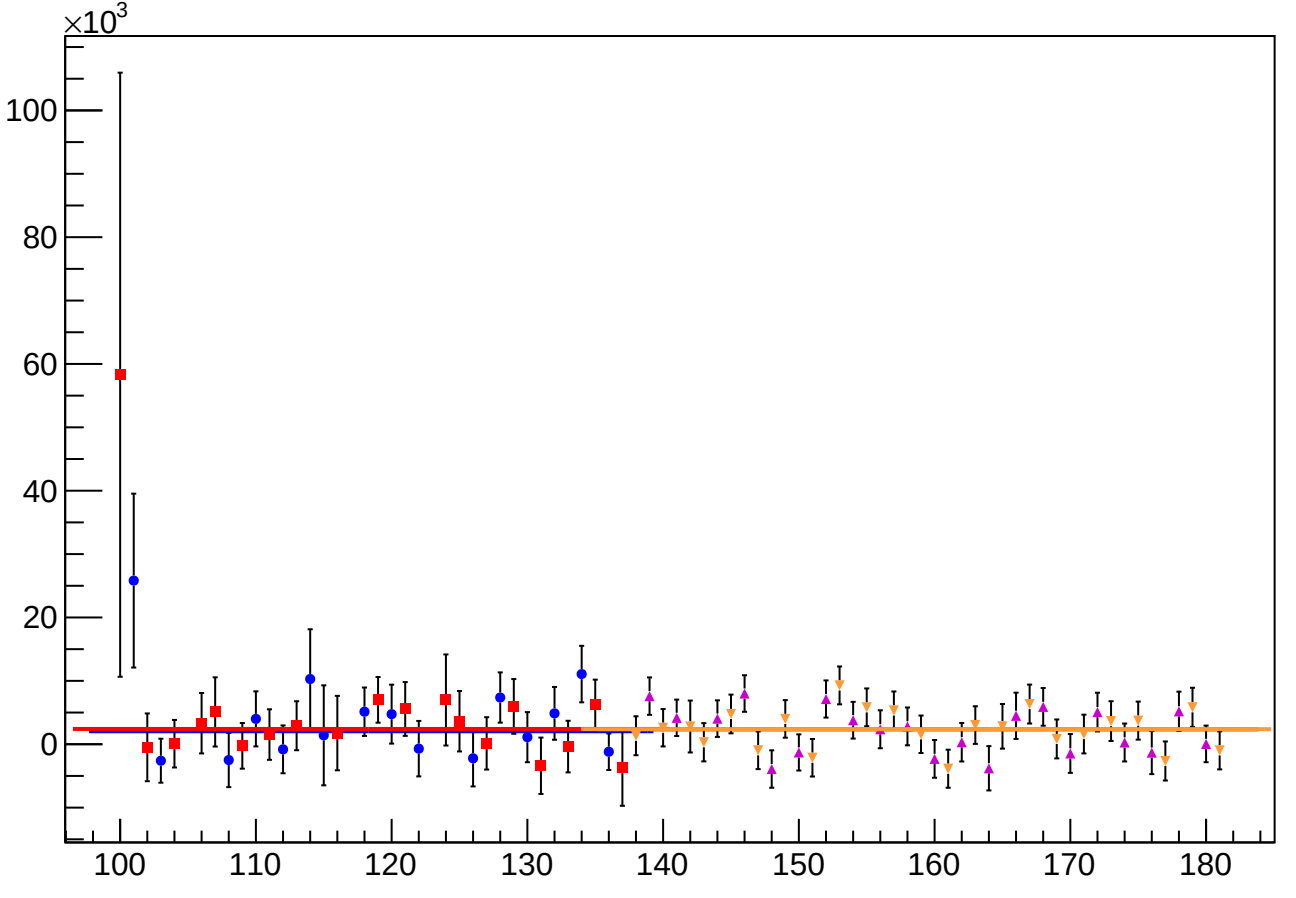
Right: 0.000+/-0.000 $\chi^2$/NDF: 4122173.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:3660497.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:22922076.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 39036687.2/78

# reg_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2049.493+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2376.580+/-639.199 $\chi^2$/NDF:24.7/22

Right Out: 2411.858+/-1035.471 $\chi^2$/NDF: 10.8/18

Left In: 2344.303+/-659.378 $\chi^2$/NDF:30.0/20

Left: 2360.943+/-458.950 $\chi^2$/NDF: 54.7/43

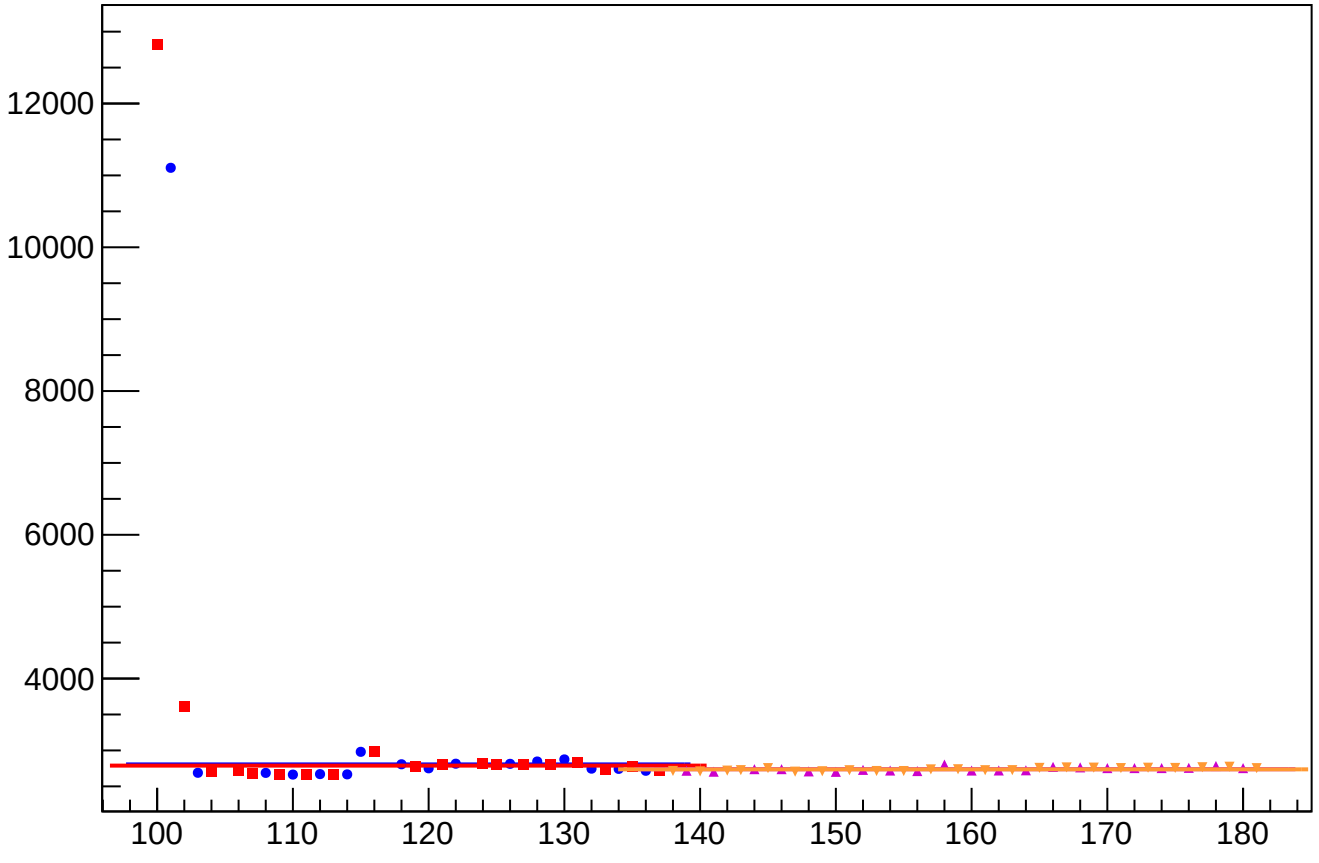
Right: 2236.684+/-744.229 $\chi^2$/NDF: 28.6/34

In: 2263.205+/-561.407 $\chi^2$/NDF:47.9/36

Out: 2386.314+/-543.913 $\chi^2$/NDF:35.5/41

All: 2326.707+/-390.643 $\chi^2$/NDF: 83.3/78

# reg_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746240.6/15

Left Out: 2736.796+/-0.452 $\chi^2$/NDF:2266.2/22

Right Out: 2788.820+/-0.732 $\chi^2$/NDF: 146998.3/18

Left In: 2738.925+/-0.466 $\chi^2$/NDF:3293.1/20

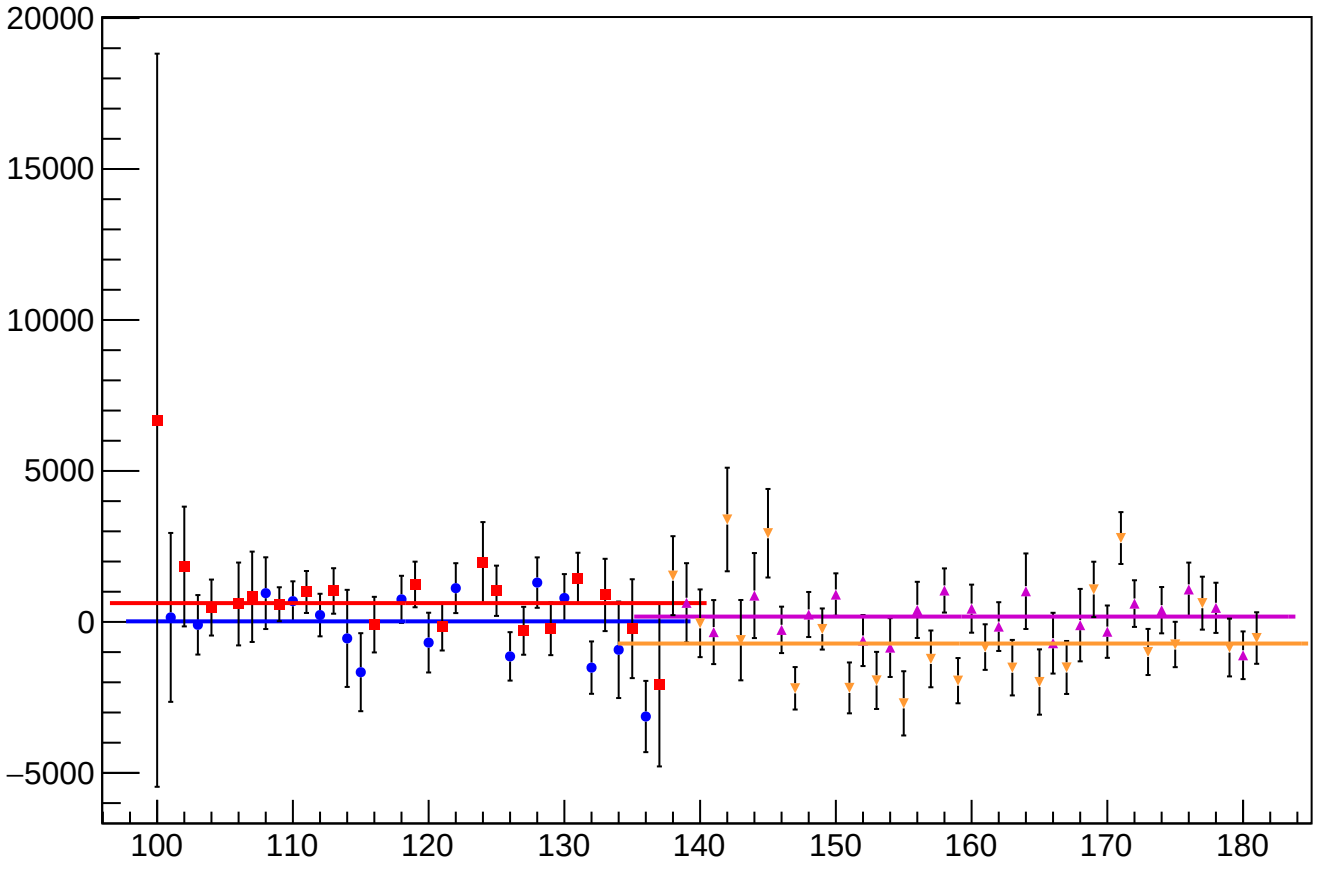
Left: 2737.828+/-0.325 $\chi^2$/NDF: 5570.0/43

Right: 2796.857+/-0.526 $\chi^2$/NDF: 893488.2/34

In: 2757.224+/-0.397 $\chi^2$/NDF:755133.0/36

Out: 2751.151+/-0.385 $\chi^2$/NDF:152920.1/41

All: 2754.091+/-0.276 $\chi^2$/NDF: 908173.9/78




Right In: 18.981+/-233.483 $\chi^2$/NDF: 22.8/15

Left Out: -715.923+/-188.499 $\chi^2$/NDF:57.2/22

Right Out: 623.107+/-215.948 $\chi^2$/NDF: 9.3/18

Left In: 176.546+/-190.957 $\chi^2$/NDF:11.5/20

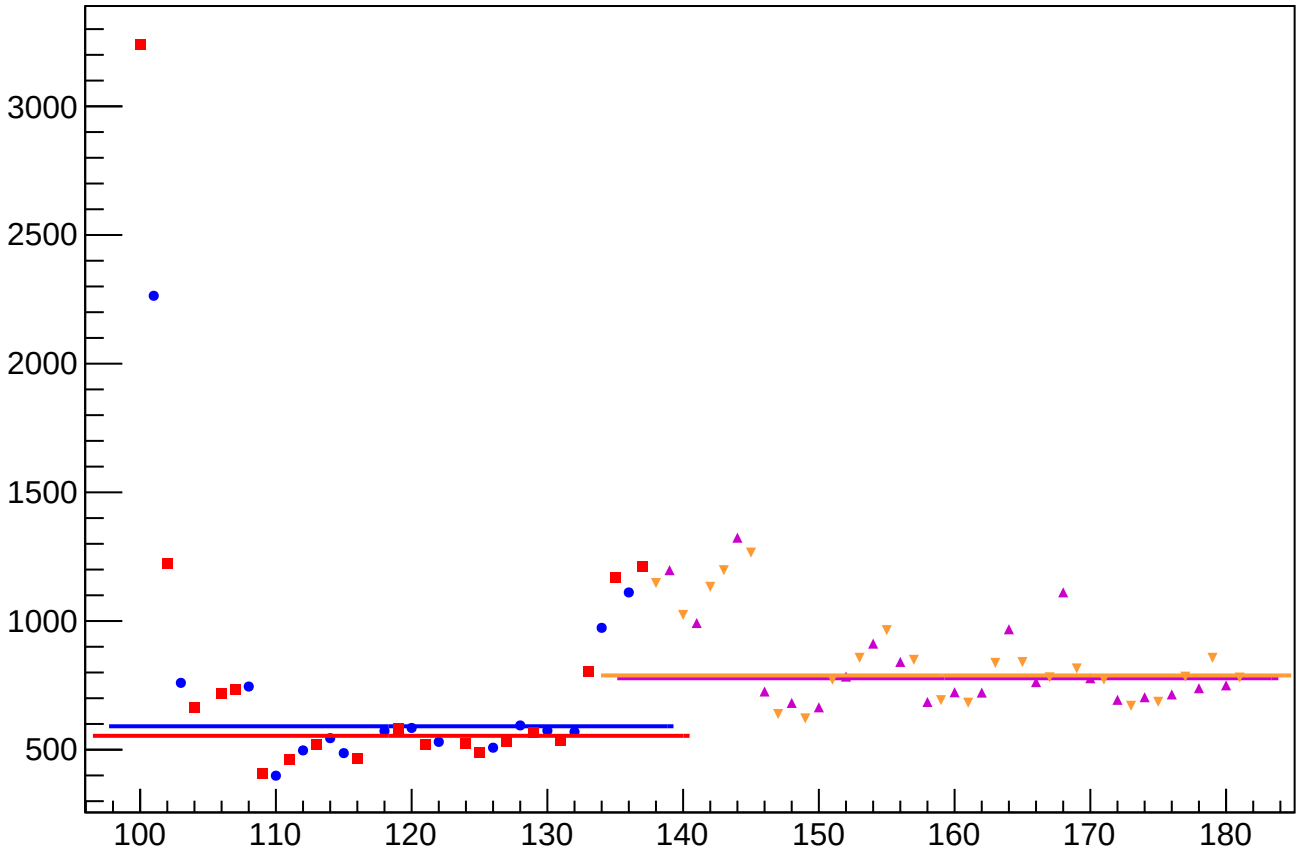
Left: -275.469+/-134.150 $\chi^2$/NDF: 79.8/43

Right: 344.579+/-158.535 $\chi^2$/NDF: 35.6/34

In: 113.394+/-147.816 $\chi^2$/NDF:34.5/36

Out: -136.868+/-142.008 $\chi^2$/NDF:88.3/41

All: -16.750+/-102.407 $\chi^2$/NDF: 124.4/78




Right In: 591.041+/-0.165 $\chi^2$/NDF: 1567663.5/15

Left Out: 788.487+/-0.133 $\chi^2$/NDF:1186191.1/22

Right Out: 553.982+/-0.153 $\chi^2$/NDF: 1116915.2/18

Left In: 777.573+/-0.135 $\chi^2$/NDF:1040145.5/20

Left: 783.101+/-0.095 $\chi^2$/NDF: 2229645.7/43

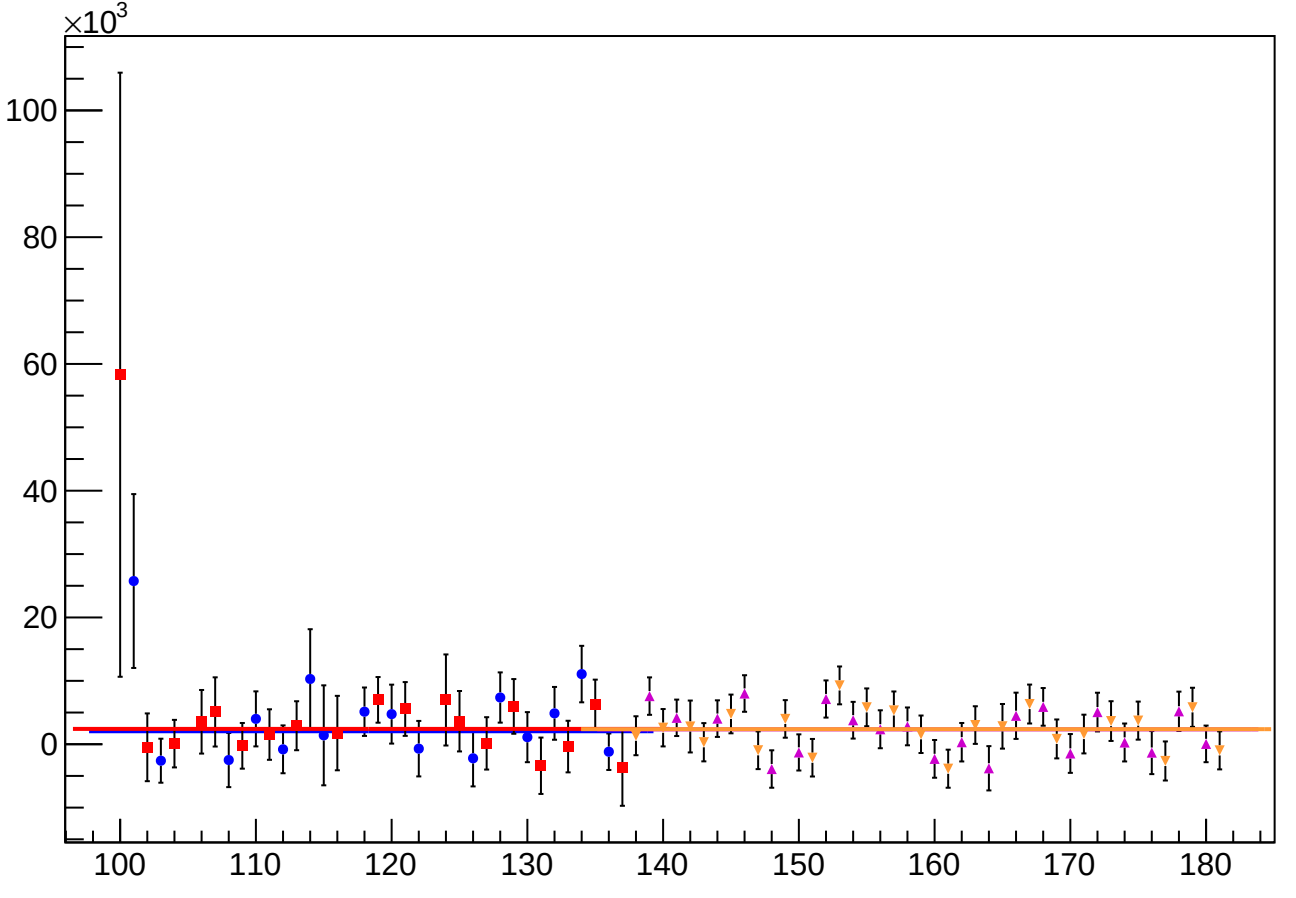
Right: 571.068+/-0.112 $\chi^2$/NDF: 2711735.0/34

In: 702.810+/-0.105 $\chi^2$/NDF:3372690.9/36

Out: 687.077+/-0.100 $\chi^2$/NDF:3641690.6/41

All: 694.628+/-0.072 $\chi^2$/NDF: 7026165.0/78

# cor_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2048.688+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2376.573+/-639.199 $\chi^2$/NDF:24.7/22

Right Out: 2417.909+/-1037.856 $\chi^2$/NDF: 10.8/18

Left In: 2344.401+/-659.378 $\chi^2$/NDF:30.0/20

Left: 2360.987+/-458.950 $\chi^2$/NDF: 54.7/43

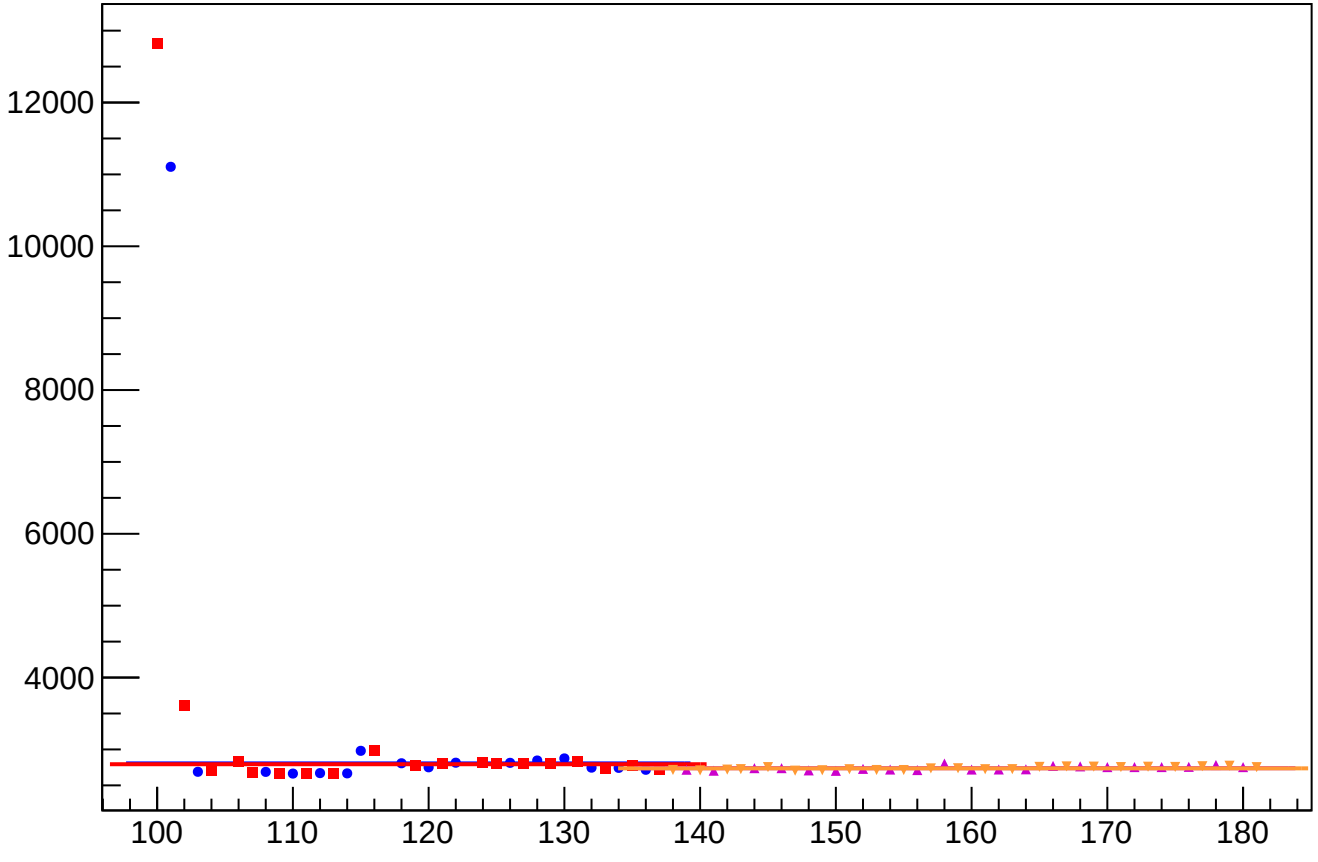
Right: 2238.996+/-745.113 $\chi^2$/NDF: 28.6/34

In: 2263.055+/-561.407 $\chi^2$/NDF:47.8/36

Out: 2387.941+/-544.258 $\chi^2$/NDF:35.5/41

All: 2327.434+/-390.770 $\chi^2$/NDF: 83.3/78

# cor_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746239.8/15

Left Out: 2736.796+/-0.452 $\chi^2$/NDF:2266.2/22

Right Out: 2794.157+/-0.734 $\chi^2$/NDF: 146744.3/18

Left In: 2738.925+/-0.466 $\chi^2$/NDF:3293.1/20

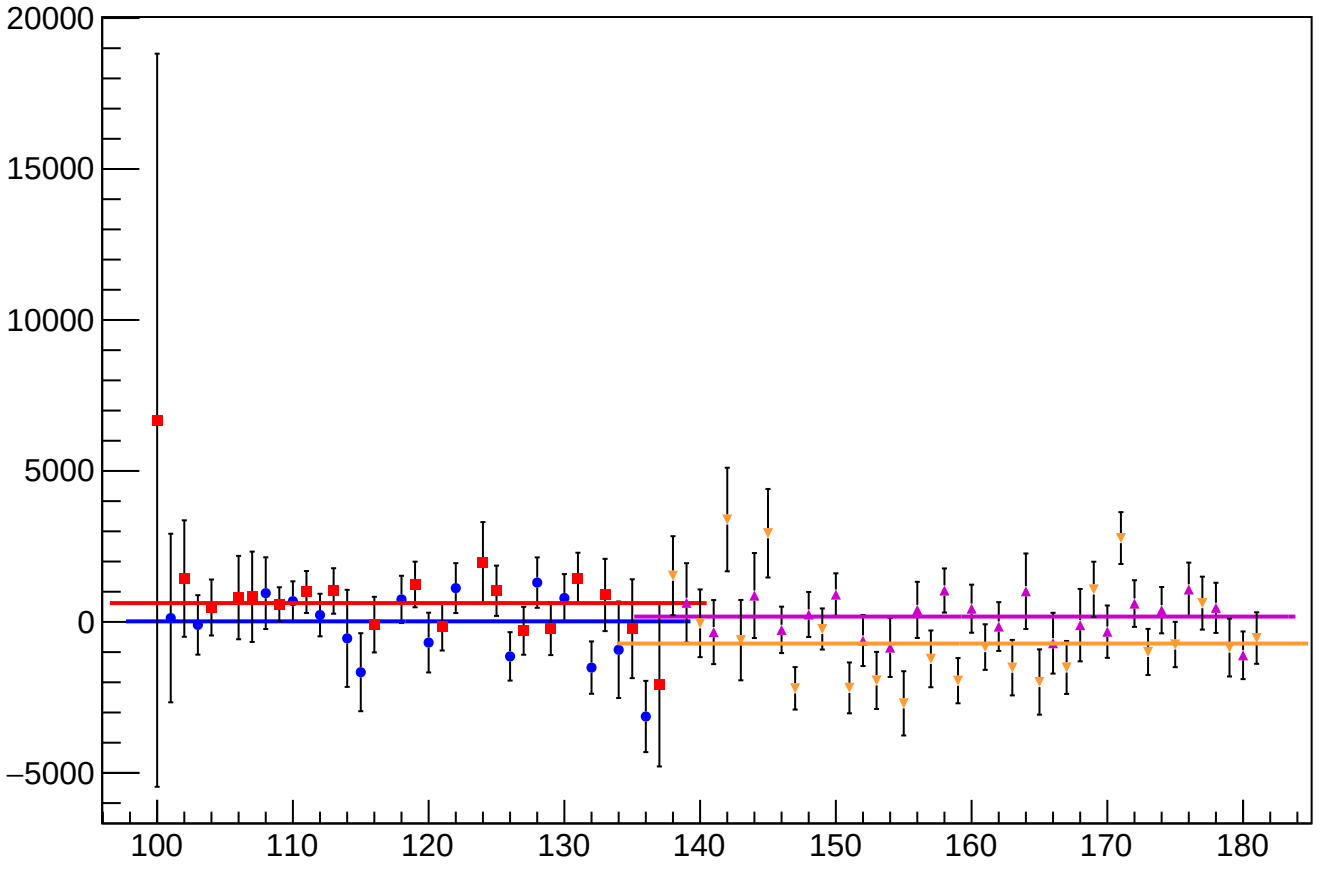
Left: 2737.828+/-0.325 $\chi^2$/NDF: 5570.1/43

Right: 2799.627+/-0.527 $\chi^2$/NDF: 893098.7/34

In: 2757.224+/-0.397 $\chi^2$/NDF:755132.1/36

Out: 2752.571+/-0.385 $\chi^2$/NDF:153439.7/41

All: 2754.825+/-0.276 $\chi^2$/NDF: 908642.7/78




Right In: 18.940+/-233.471 $\chi^2$/NDF: 22.8/15

Left Out: -715.922+/-188.499 $\chi^2$/NDF:57.2/22

Right Out: 624.217+/-215.902 $\chi^2$/NDF: 9.1/18

Left In: 176.642+/-190.958 $\chi^2$/NDF:11.5/20

Left: -275.424+/-134.150 $\chi^2$/NDF: 79.8/43

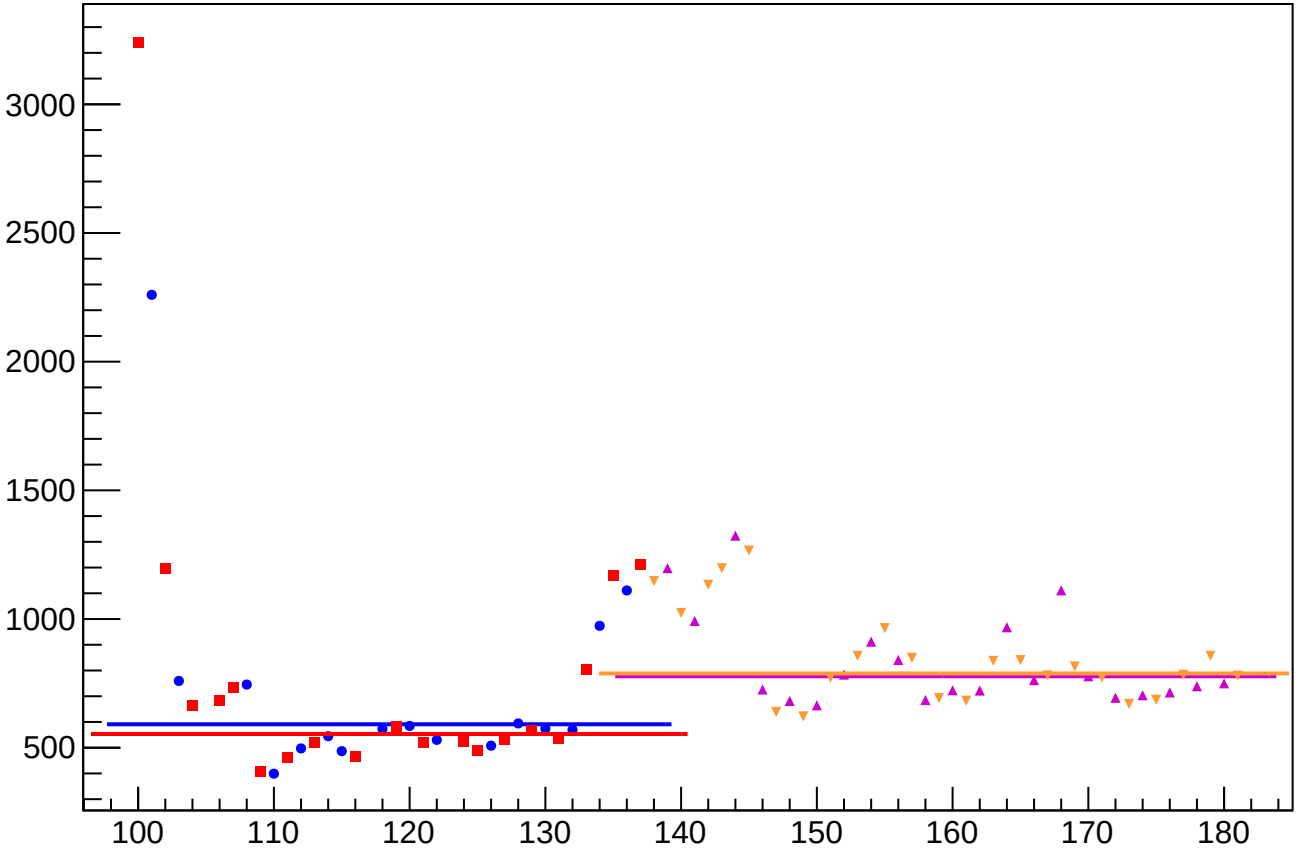
Right: 345.208+/-158.513 $\chi^2$/NDF: 35.5/34

In: 113.430+/-147.813 $\chi^2$/NDF:34.5/36

Out: -136.247+/-141.995 $\chi^2$/NDF:88.2/41

All: -16.419+/-102.401 $\chi^2$/NDF: 124.2/78

# asym_atr1_cor_correction_rms vs Slug, Sign Corrected




Right In: 591.039+/-0.165 $\chi^2$/NDF: 1566635.0/15

Left Out: 788.485+/-0.133 $\chi^2$/NDF:1186219.0/22

Right Out: 553.233+/-0.153 $\chi^2$/NDF: 1101651.0/18

Left In: 777.576+/-0.135 $\chi^2$/NDF:1040078.0/20

Left: 783.101+/-0.095 $\chi^2$/NDF: 2229602.8/43

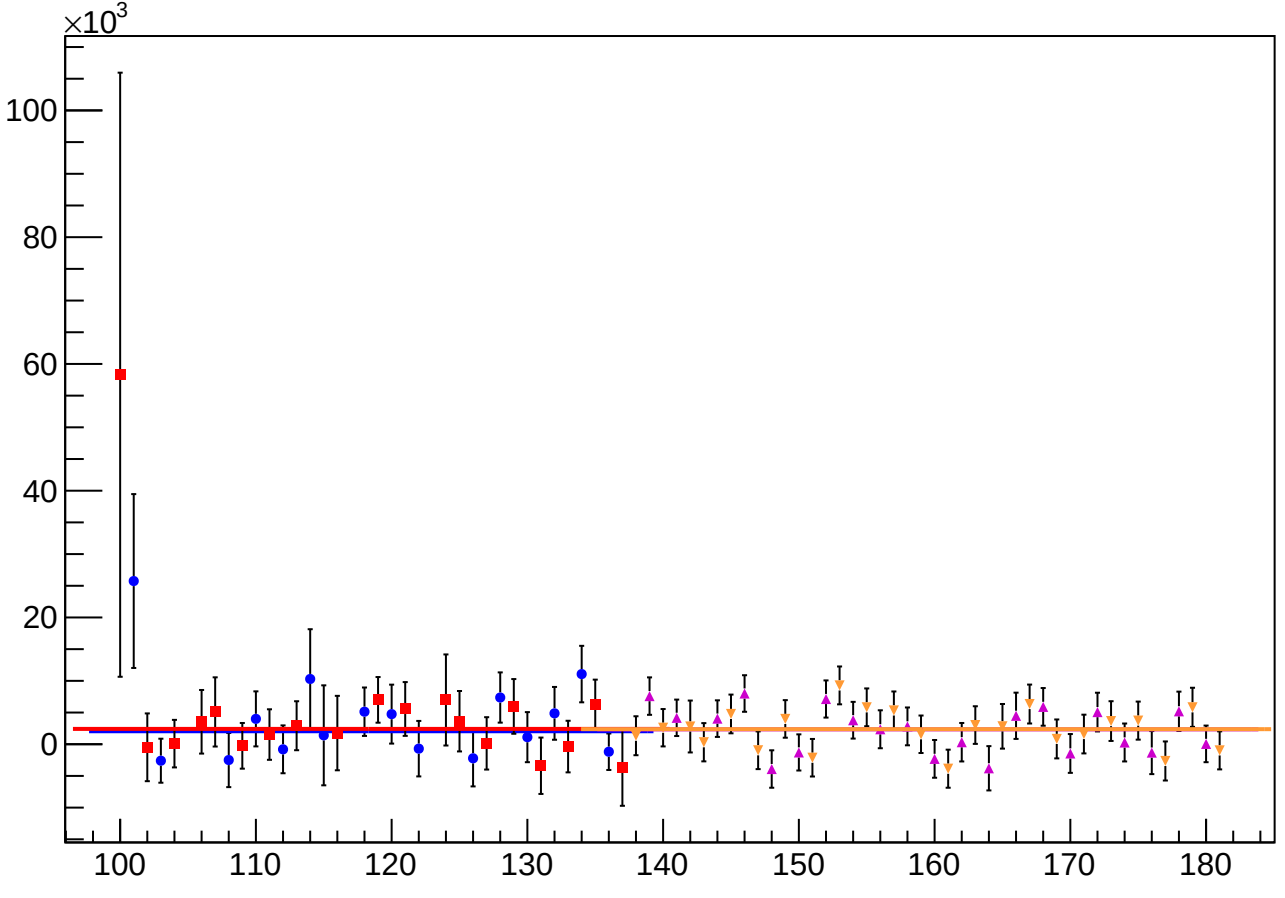
Right: 570.660+/-0.112 $\chi^2$/NDF: 2696555.4/34

In: 702.807+/-0.105 $\chi^2$/NDF:3371677.8/36

Out: 686.727+/-0.100 $\chi^2$/NDF:3635321.8/41

All: 694.444+/-0.072 $\chi^2$/NDF: 7019308.6/78

# eigen_cor_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2048.688+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2376.573+/-639.199 $\chi^2$/NDF:24.7/22

Right Out: 2417.909+/-1037.856 $\chi^2$/NDF: 10.8/18

Left In: 2344.401+/-659.378 $\chi^2$/NDF:30.0/20

Left: 2360.987+/-458.950 $\chi^2$/NDF: 54.7/43

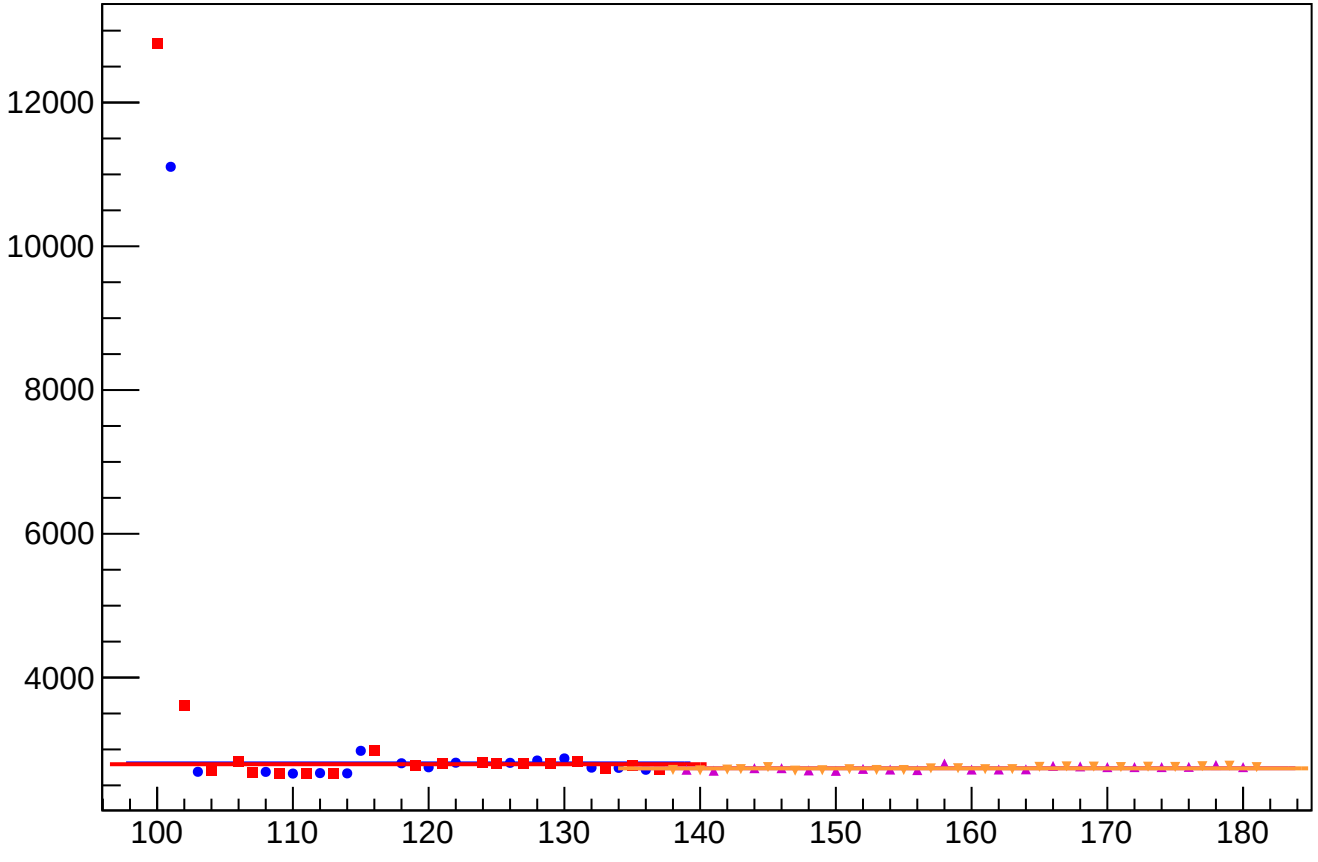
Right: 2238.996+/-745.113 $\chi^2$/NDF: 28.6/34

In: 2263.055+/-561.407 $\chi^2$/NDF:47.8/36

Out: 2387.941+/-544.258 $\chi^2$/NDF:35.5/41

All: 2327.434+/-390.770 $\chi^2$/NDF: 83.3/78

# eigen_cor_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746239.8/15

Left Out: 2736.796+/-0.452 $\chi^2$/NDF:2266.2/22

Right Out: 2794.157+/-0.734 $\chi^2$/NDF: 146744.3/18

Left In: 2738.925+/-0.466 $\chi^2$/NDF:3293.1/20

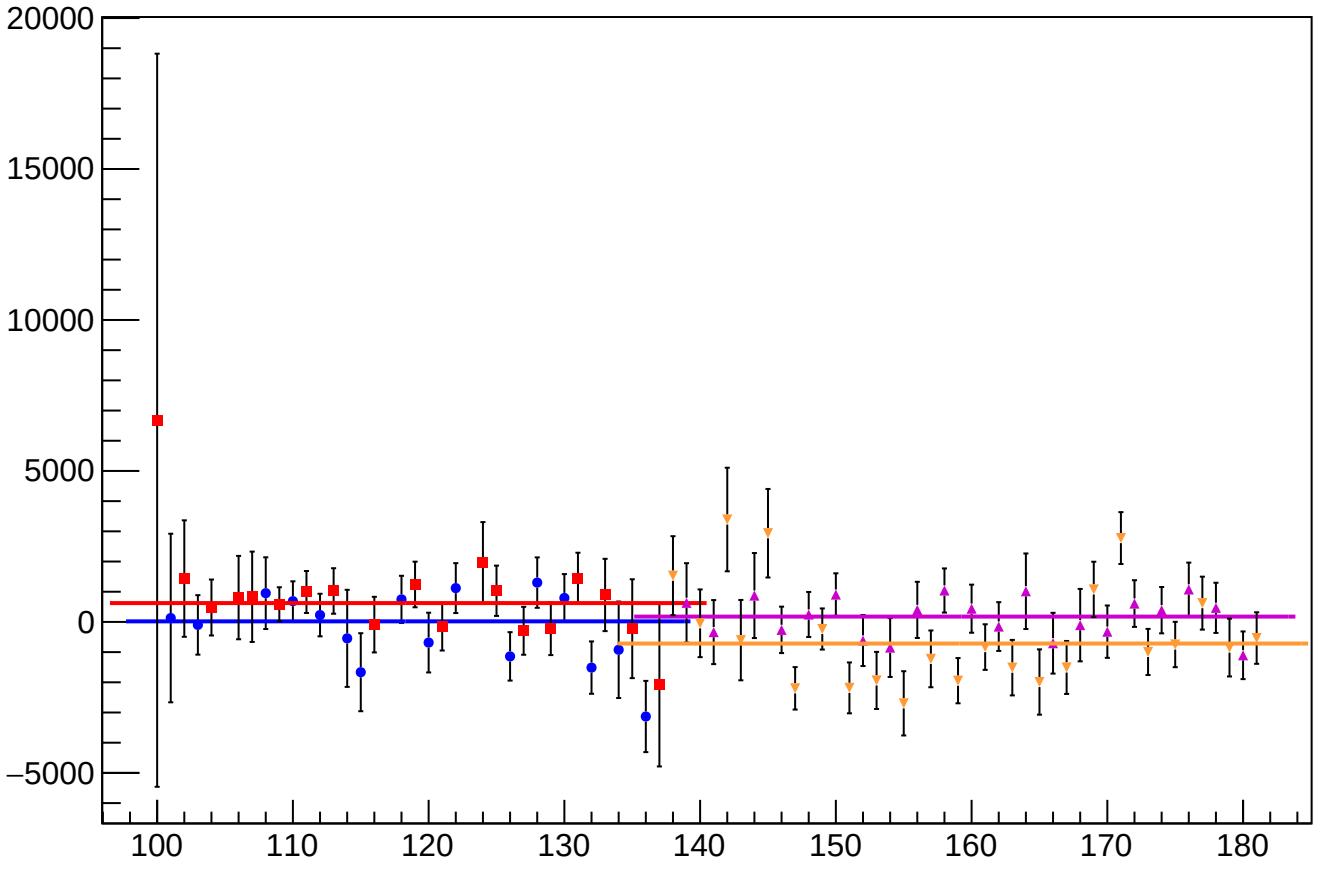
Left: 2737.828+/-0.325 $\chi^2$/NDF: 5570.1/43

Right: 2799.627+/-0.527 $\chi^2$/NDF: 893098.7/34

In: 2757.224+/-0.397 $\chi^2$/NDF:755132.1/36

Out: 2752.571+/-0.385 $\chi^2$/NDF:153439.7/41

All: 2754.825+/-0.276 $\chi^2$/NDF: 908642.7/78




Right In: 18.940+/-233.471 $\chi^2$/NDF: 22.8/15

Left Out: -715.922+/-188.499 $\chi^2$/NDF:57.2/22

Right Out: 624.217+/-215.902 $\chi^2$/NDF: 9.1/18

Left In: 176.642+/-190.958 $\chi^2$/NDF:11.5/20

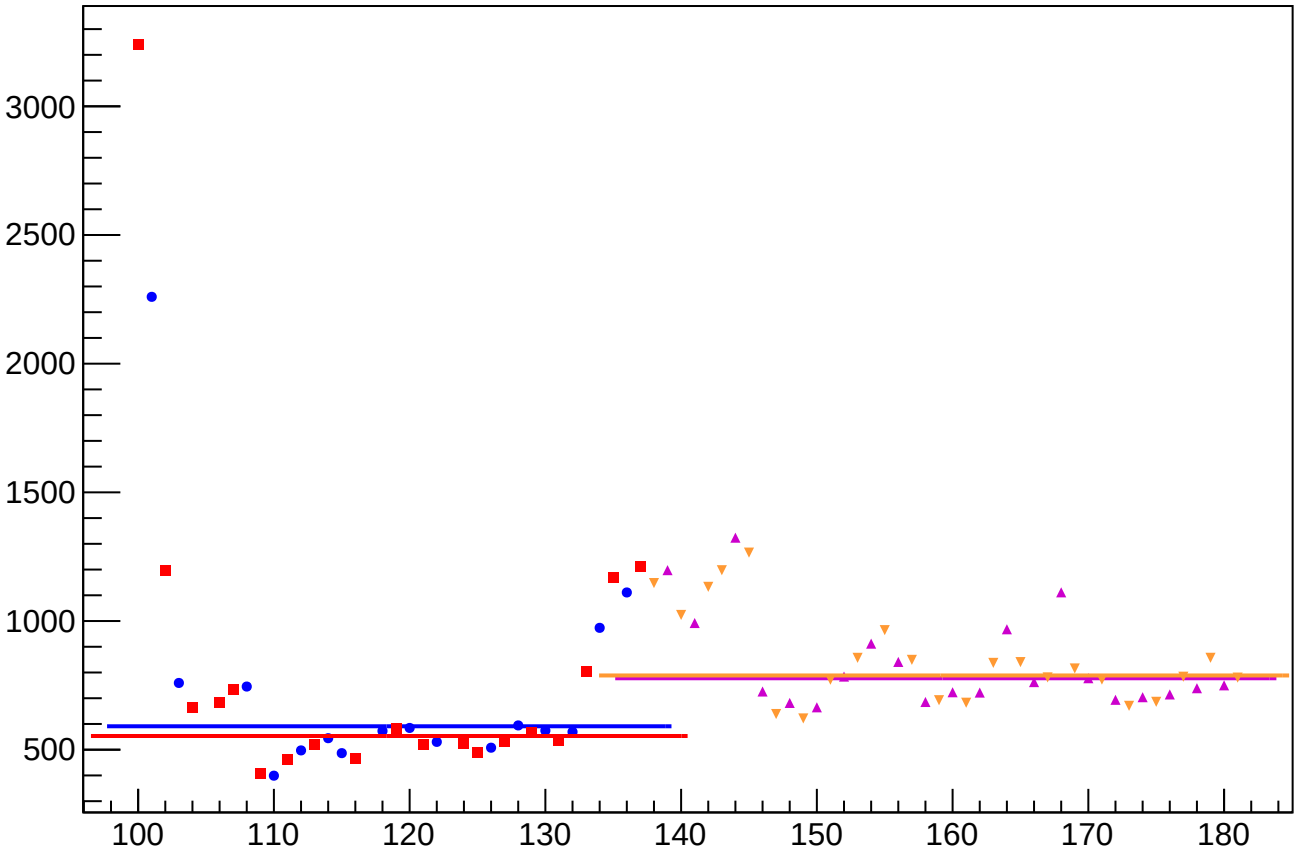
Left: -275.424+/-134.150 $\chi^2$/NDF: 79.8/43

Right: 345.208+/-158.513 $\chi^2$/NDF: 35.5/34

In: 113.430+/-147.813 $\chi^2$/NDF:34.5/36

Out: -136.247+/-141.995 $\chi^2$/NDF:88.2/41

All: -16.419+/-102.401 $\chi^2$/NDF: 124.2/78




Right In: 591.039+/-0.165 $\chi^2$/NDF: 1566635.0/15

Left Out: 788.485+/-0.133 $\chi^2$/NDF:1186219.0/22

Right Out: 553.233+/-0.153 $\chi^2$/NDF: 1101651.0/18

Left In: 777.576+/-0.135 $\chi^2$/NDF:1040078.0/20

Left: 783.101+/-0.095 $\chi^2$/NDF: 2229602.8/43

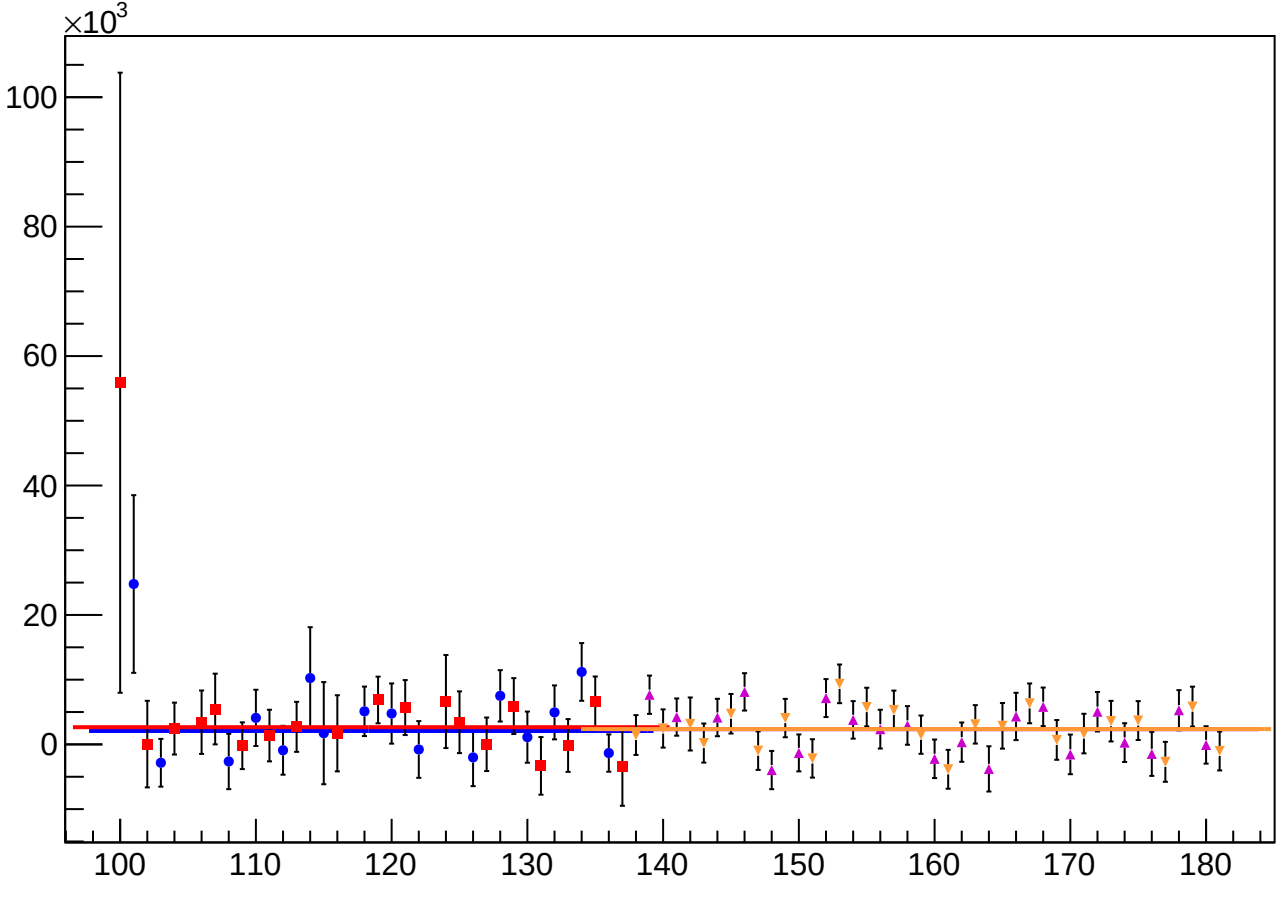
Right: 570.660+/-0.112 $\chi^2$/NDF: 2696555.4/34

In: 702.807+/-0.105 $\chi^2$/NDF:3371677.8/36

Out: 686.727+/-0.100 $\chi^2$/NDF:3635321.8/41

All: 694.444+/-0.072 $\chi^2$/NDF: 7019308.6/78

# dit_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2074.766+/-1077.182 $\chi^2$/NDF: 17.9/15

Left Out: 2367.665+/-639.619 $\chi^2$/NDF:24.9/22

Right Out: 2657.301+/-1049.868 $\chi^2$/NDF: 9.9/18

Left In: 2346.972+/-659.754 $\chi^2$/NDF:30.5/20

Left: 2357.639+/-459.232 $\chi^2$/NDF: 55.4/43

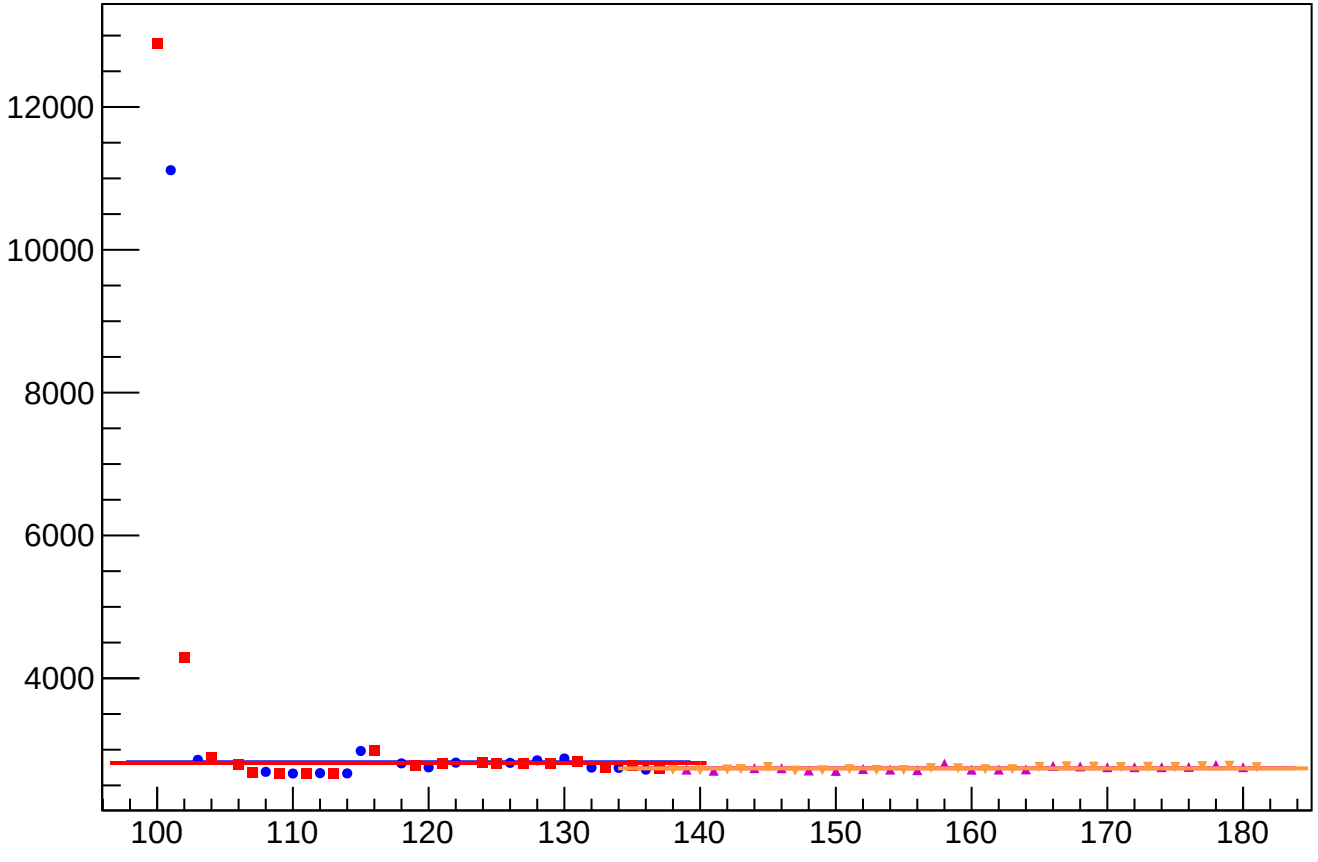
Right: 2373.513+/-751.840 $\chi^2$/NDF: 28.0/34

In: 2272.715+/-562.613 $\chi^2$/NDF:48.4/36

Out: 2446.068+/-546.230 $\chi^2$/NDF:34.9/41

All: 2361.952+/-391.907 $\chi^2$/NDF: 83.4/78

# dit_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2823.448+/-0.762 $\chi^2$/NDF: 743916.1/15

Left Out: 2738.590+/-0.452 $\chi^2$/NDF:2273.0/22

Right Out: 2813.821+/-0.742 $\chi^2$/NDF: 200511.9/18

Left In: 2740.478+/-0.467 $\chi^2$/NDF:3304.3/20

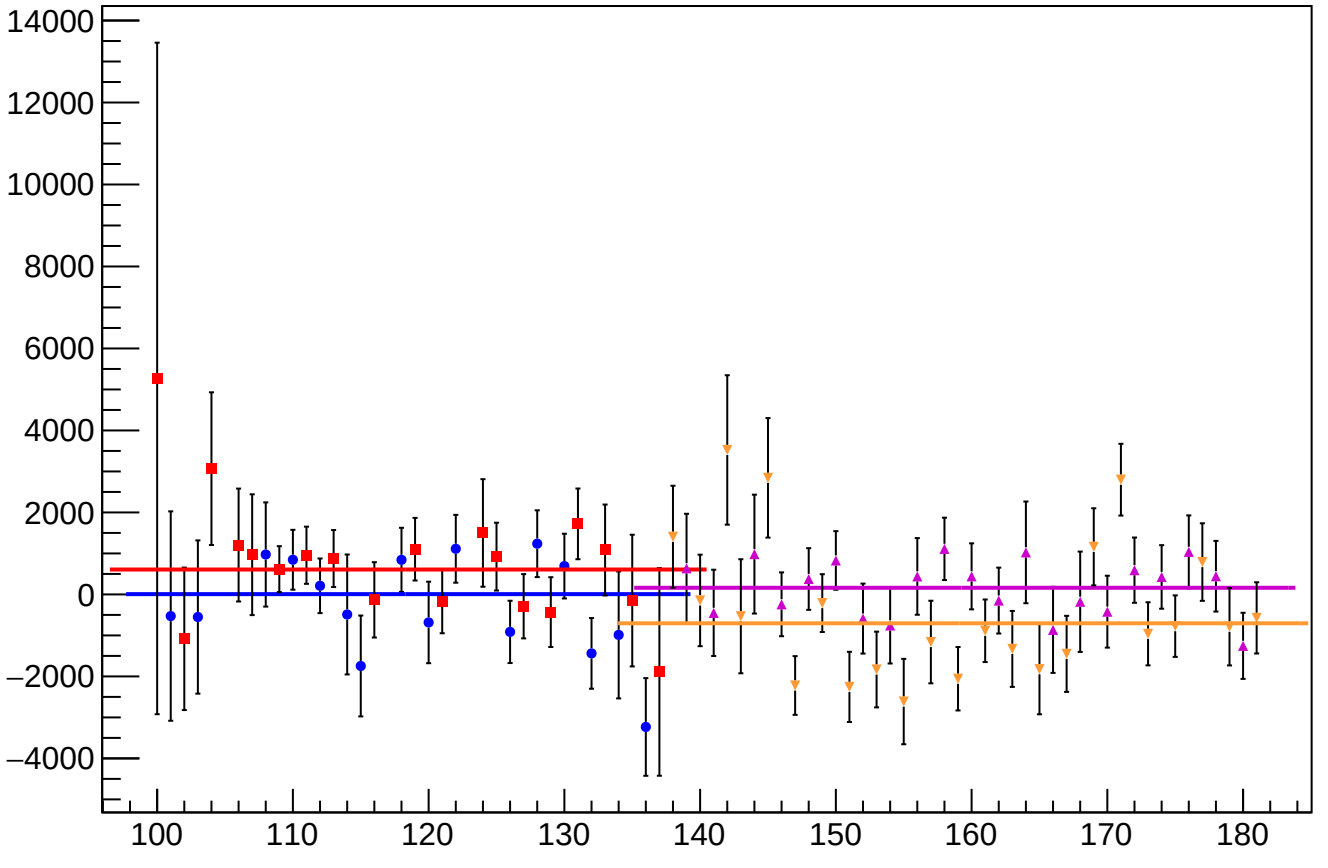
Left: 2739.504+/-0.325 $\chi^2$/NDF: 5585.8/43

Right: 2818.511+/-0.532 $\chi^2$/NDF: 944509.9/34

In: 2763.112+/-0.398 $\chi^2$/NDF:755849.3/36

Out: 2758.955+/-0.386 $\chi^2$/NDF:210274.7/41

All: 2760.972+/-0.277 $\chi^2$/NDF: 966180.2/78




Right In: 7.048+/-237.455 $\chi^2$/NDF: 22.8/15

Left Out: -704.157+/-191.922 $\chi^2$/NDF:55.6/22

Right Out: 607.647+/-217.093 $\chi^2$/NDF: 12.2/18

Left In: 162.065+/-193.412 $\chi^2$/NDF:12.2/20

Left: -274.395+/-136.233 $\chi^2$/NDF: 77.9/43

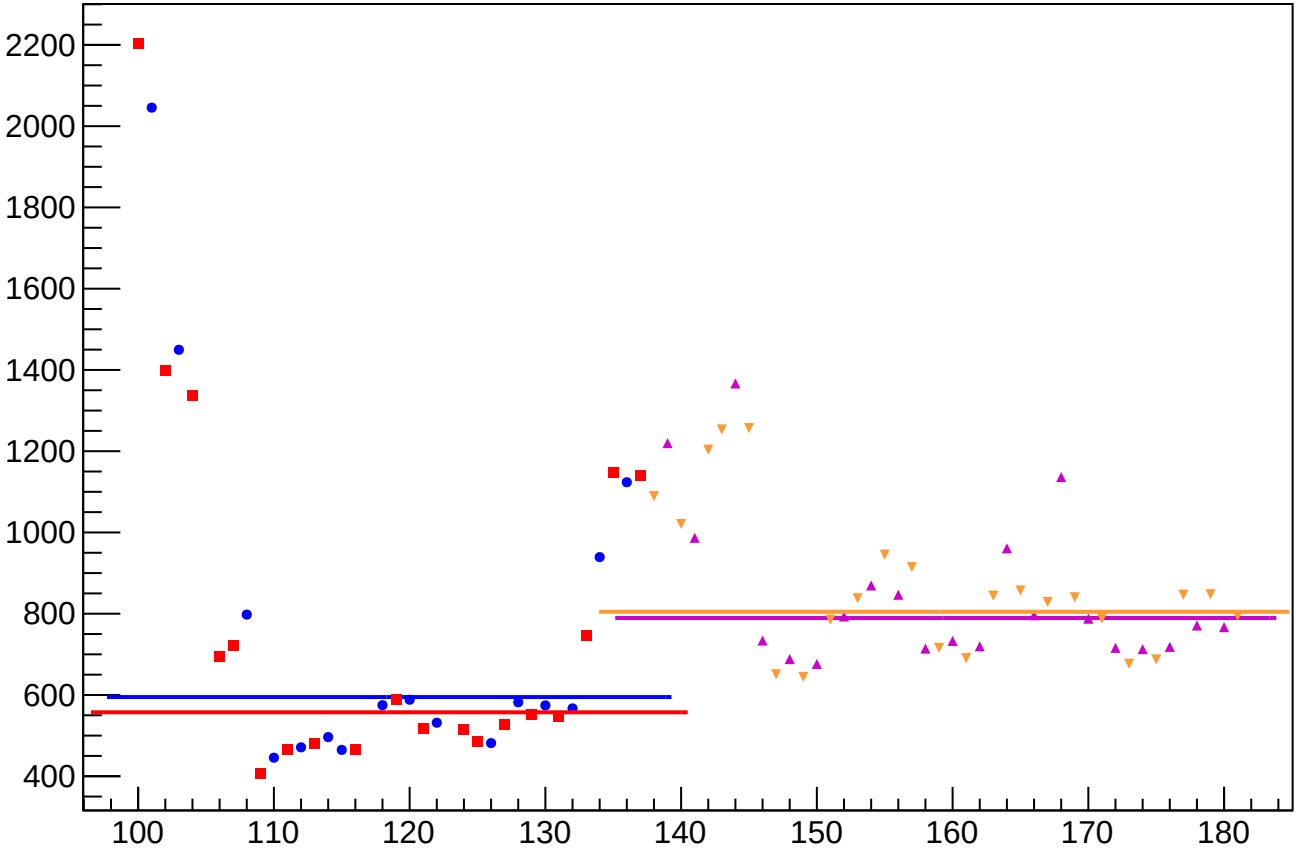
Right: 334.198+/-160.224 $\chi^2$/NDF: 38.5/34

In: 100.238+/-149.962 $\chi^2$/NDF:35.3/36

Out: -128.680+/-143.789 $\chi^2$/NDF:88.3/41

All: -19.029+/-103.788 $\chi^2$/NDF: 124.7/78

# asym_atr1_dit_correction_rms vs Slug, Sign Corrected




Right In: 594.858+/-0.168 $\chi^2$/NDF: 1852655.3/15

Left Out: 804.739+/-0.136 $\chi^2$/NDF:1132111.8/22

Right Out: 557.397+/-0.154 $\chi^2$/NDF: 1631309.6/18

Left In: 789.399+/-0.137 $\chi^2$/NDF:1010783.8/20

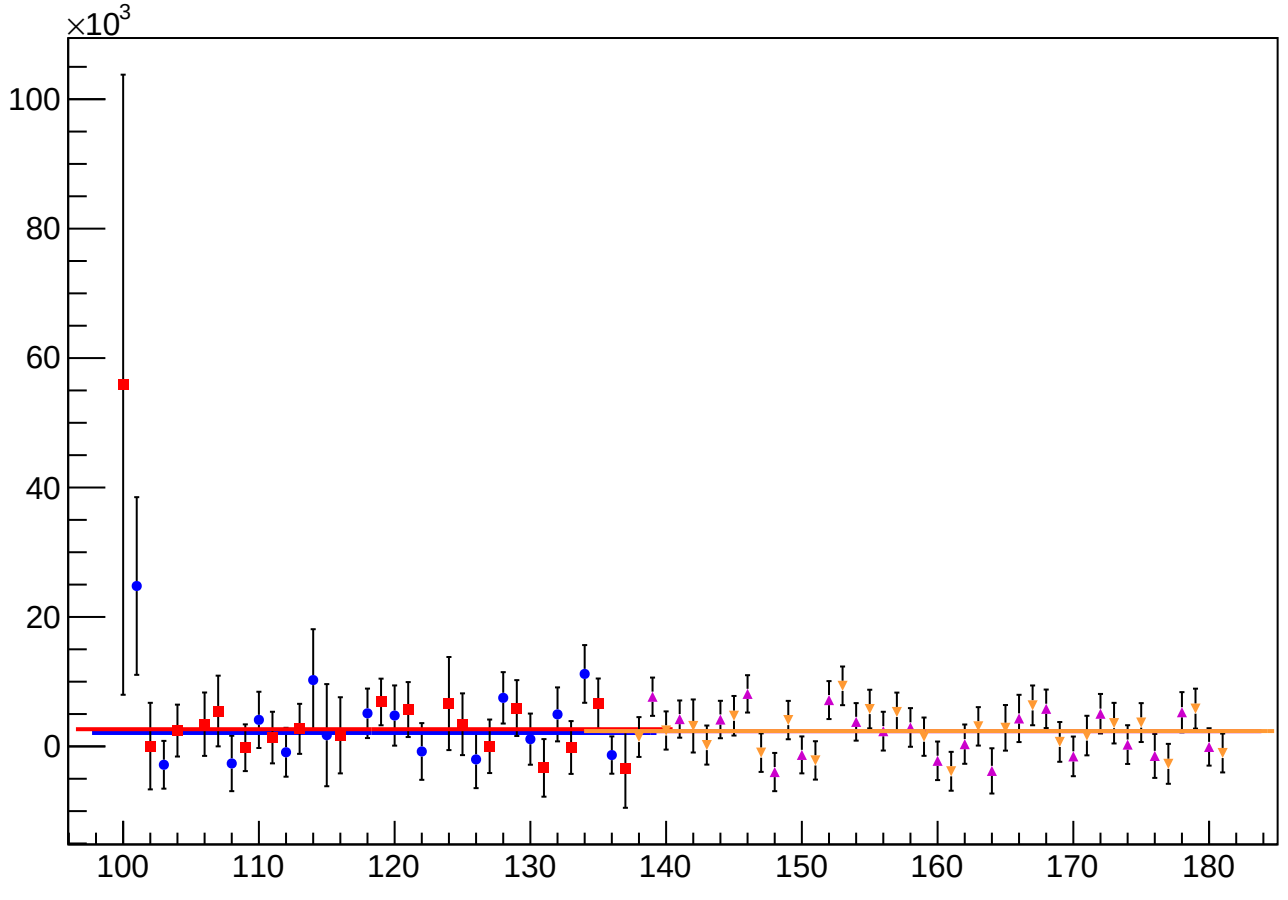
Left: 797.128+/-0.096 $\chi^2$/NDF: 2149235.1/43

Right: 574.453+/-0.113 $\chi^2$/NDF: 3511078.0/34

In: 711.808+/-0.106 $\chi^2$/NDF:3670452.5/36

Out: 696.232+/-0.102 $\chi^2$/NDF:4220671.9/41

All: 703.693+/-0.073 $\chi^2$/NDF: 7902365.8/78




Right In: 2074.766+/-1077.182 $\chi^2$/NDF: 17.9/15

Left Out: 2367.666+/-639.619 $\chi^2$/NDF:24.9/22

Right Out: 2657.300+/-1049.868 $\chi^2$/NDF: 9.9/18

Left In: 2346.972+/-659.754 $\chi^2$/NDF:30.5/20

Left: 2357.640+/-459.232 $\chi^2$/NDF: 55.4/43

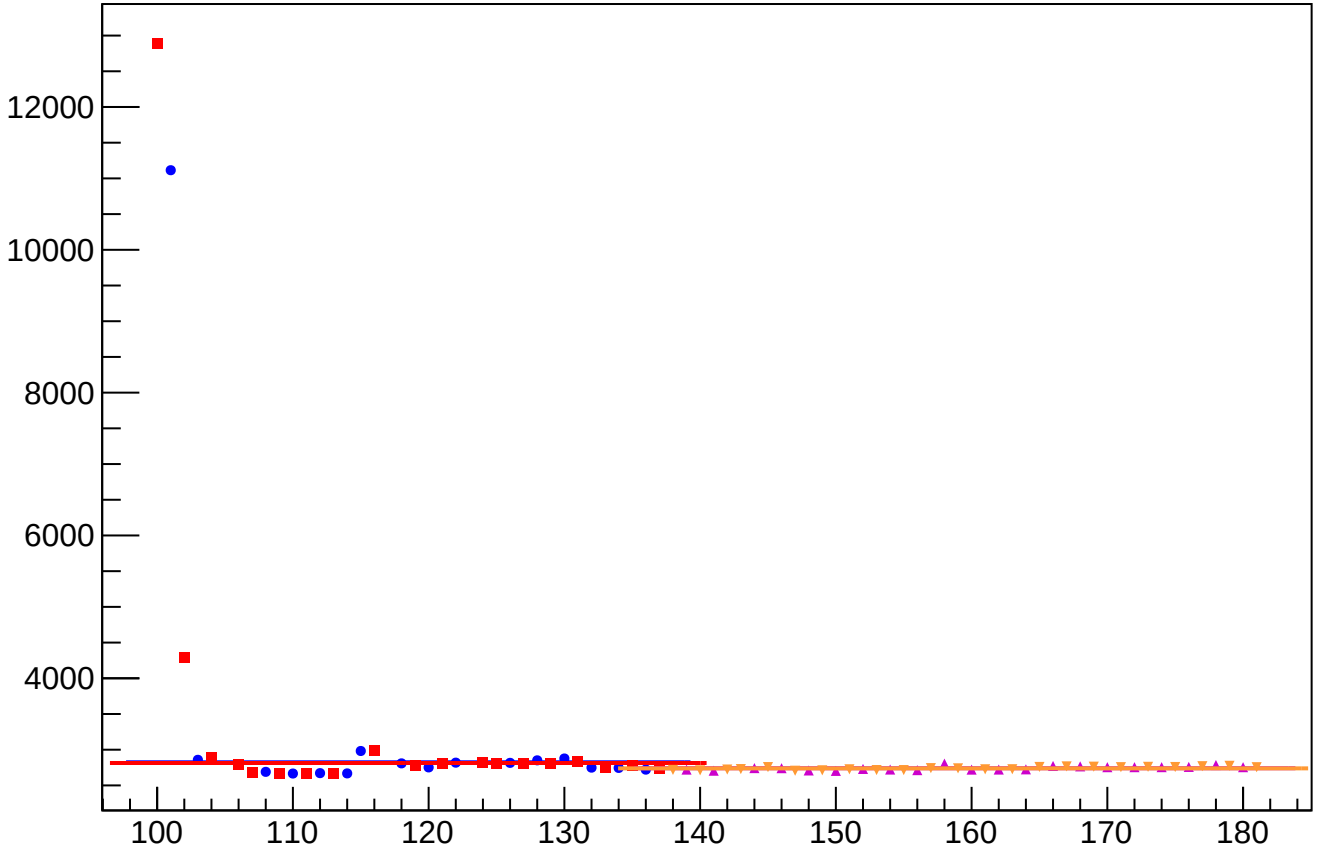
Right: 2373.512+/-751.840 $\chi^2$/NDF: 28.0/34

In: 2272.715+/-562.613 $\chi^2$/NDF:48.4/36

Out: 2446.069+/-546.230 $\chi^2$/NDF:34.9/41

All: 2361.952+/-391.907 $\chi^2$/NDF: 83.4/78

# eigen_dit_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2823.448+/-0.762 $\chi^2$/NDF: 743916.1/15

Left Out: 2738.590+/-0.452 $\chi^2$/NDF:2273.0/22

Right Out: 2813.821+/-0.742 $\chi^2$/NDF: 200511.7/18

Left In: 2740.478+/-0.467 $\chi^2$/NDF:3304.3/20

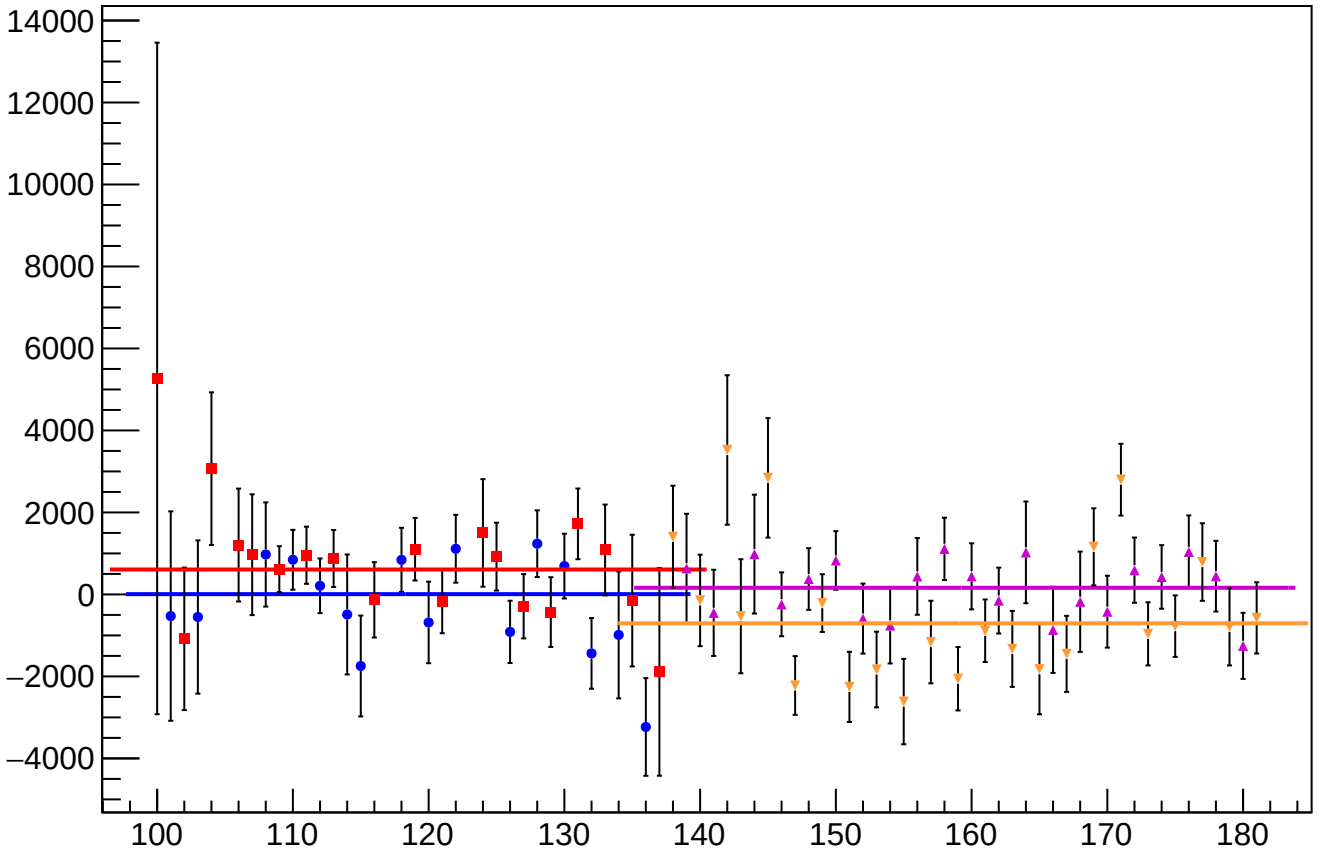
Left: 2739.504+/-0.325 $\chi^2$/NDF: 5585.8/43

Right: 2818.511+/-0.532 $\chi^2$/NDF: 944509.7/34

In: 2763.112+/-0.398 $\chi^2$/NDF:755849.3/36

Out: 2758.955+/-0.386 $\chi^2$/NDF:210274.5/41

All: 2760.972+/-0.277 $\chi^2$/NDF: 966180.0/78




Right In: 7.049+/-237.455 $\chi^2$/NDF: 22.8/15

Left Out: -704.157+/-191.922 $\chi^2$/NDF:55.6/22

Right Out: 607.647+/-217.094 $\chi^2$/NDF: 12.2/18

Left In: 162.065+/-193.412 $\chi^2$/NDF:12.2/20

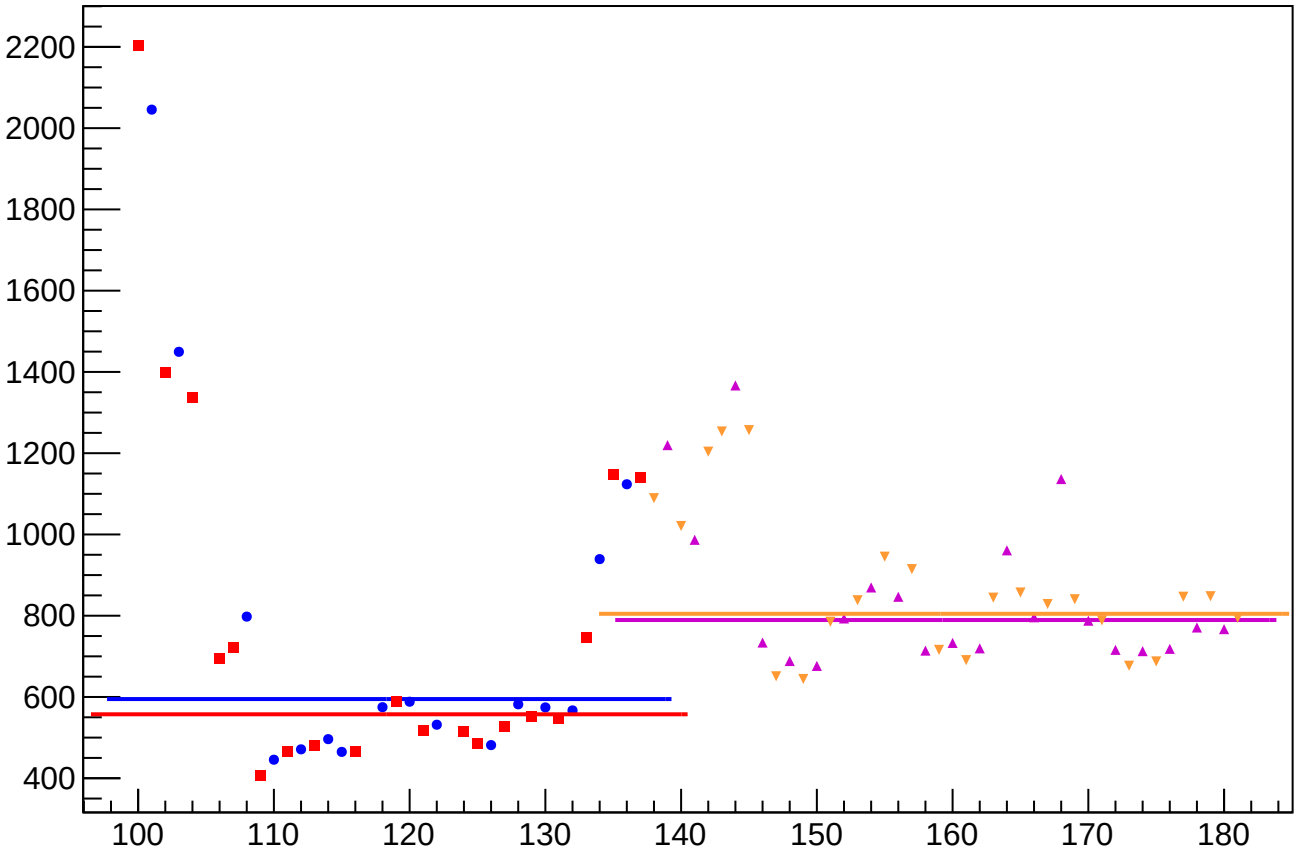
Left: -274.395+/-136.233 $\chi^2$/NDF: 77.9/43

Right: 334.198+/-160.224 $\chi^2$/NDF: 38.5/34

In: 100.239+/-149.962 $\chi^2$/NDF:35.3/36

Out: -128.680+/-143.789 $\chi^2$/NDF:88.3/41

All: -19.029+/-103.788 $\chi^2$/NDF: 124.7/78




Right In: 594.858+/-0.168 $\chi^2$/NDF: 1852649.9/15

Left Out: 804.739+/-0.136 $\chi^2$/NDF:1132114.0/22

Right Out: 557.397+/-0.154 $\chi^2$/NDF: 1631307.0/18

Left In: 789.398+/-0.137 $\chi^2$/NDF:1010788.0/20

Left: 797.128+/-0.096 $\chi^2$/NDF: 2149241.7/43

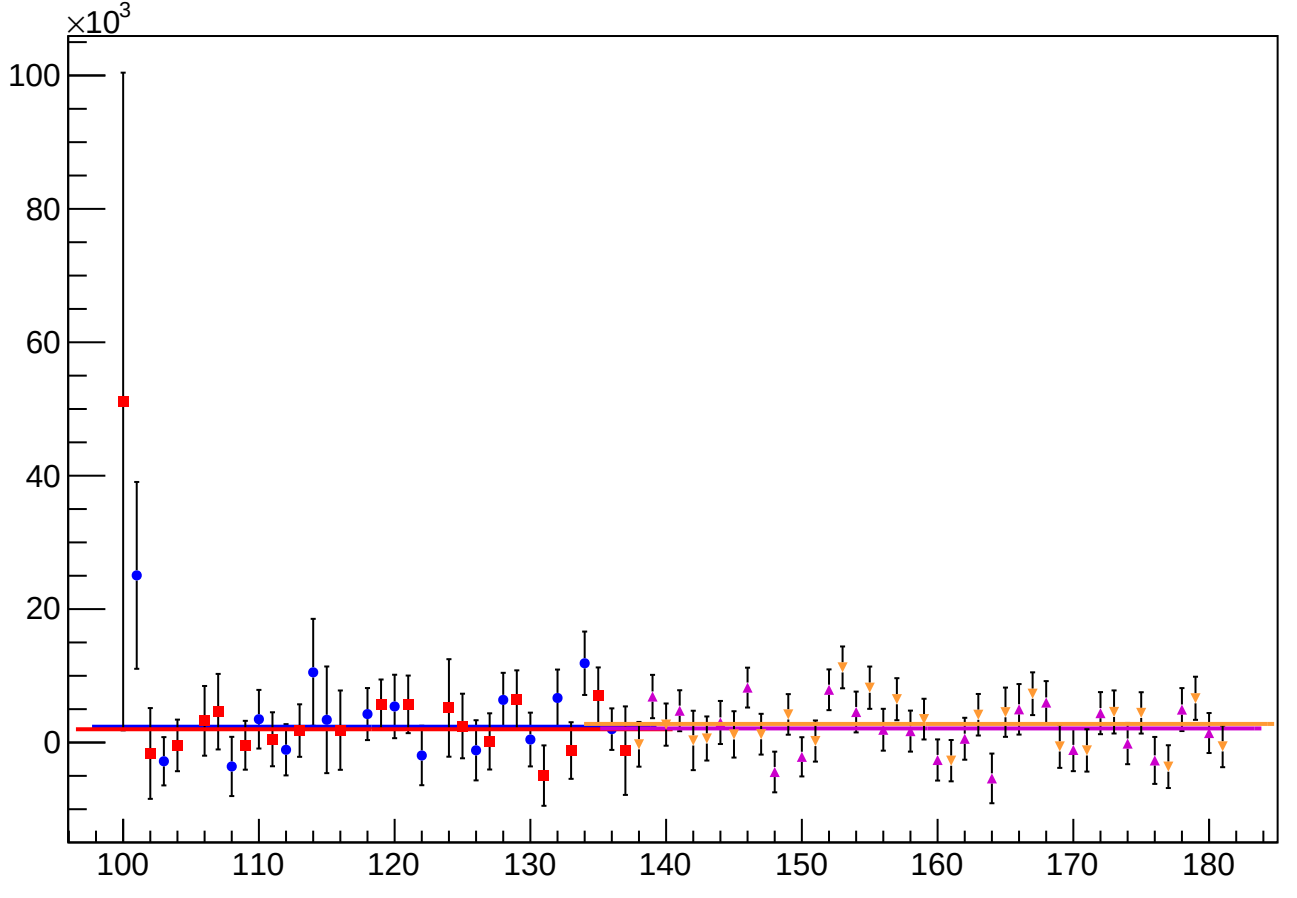
Right: 574.453+/-0.113 $\chi^2$/NDF: 3511070.4/34

In: 711.808+/-0.106 $\chi^2$/NDF:3670445.3/36

Out: 696.232+/-0.102 $\chi^2$/NDF:4220670.0/41

All: 703.693+/-0.073 $\chi^2$/NDF: 7902356.8/78

# asym_atr1_mean vs Slug, Sign Corrected




Right In: 2367.173+/-1106.203 $\chi^2$/NDF: 16.8/15

Left Out: 2785.640+/-672.286 $\chi^2$/NDF:30.0/22

Right Out: 1987.039+/-1075.310 $\chi^2$/NDF: 10.3/18

Left In: 2110.100+/-691.593 $\chi^2$/NDF:31.6/20

Left: 2457.431+/-482.059 $\chi^2$/NDF: 62.1/43

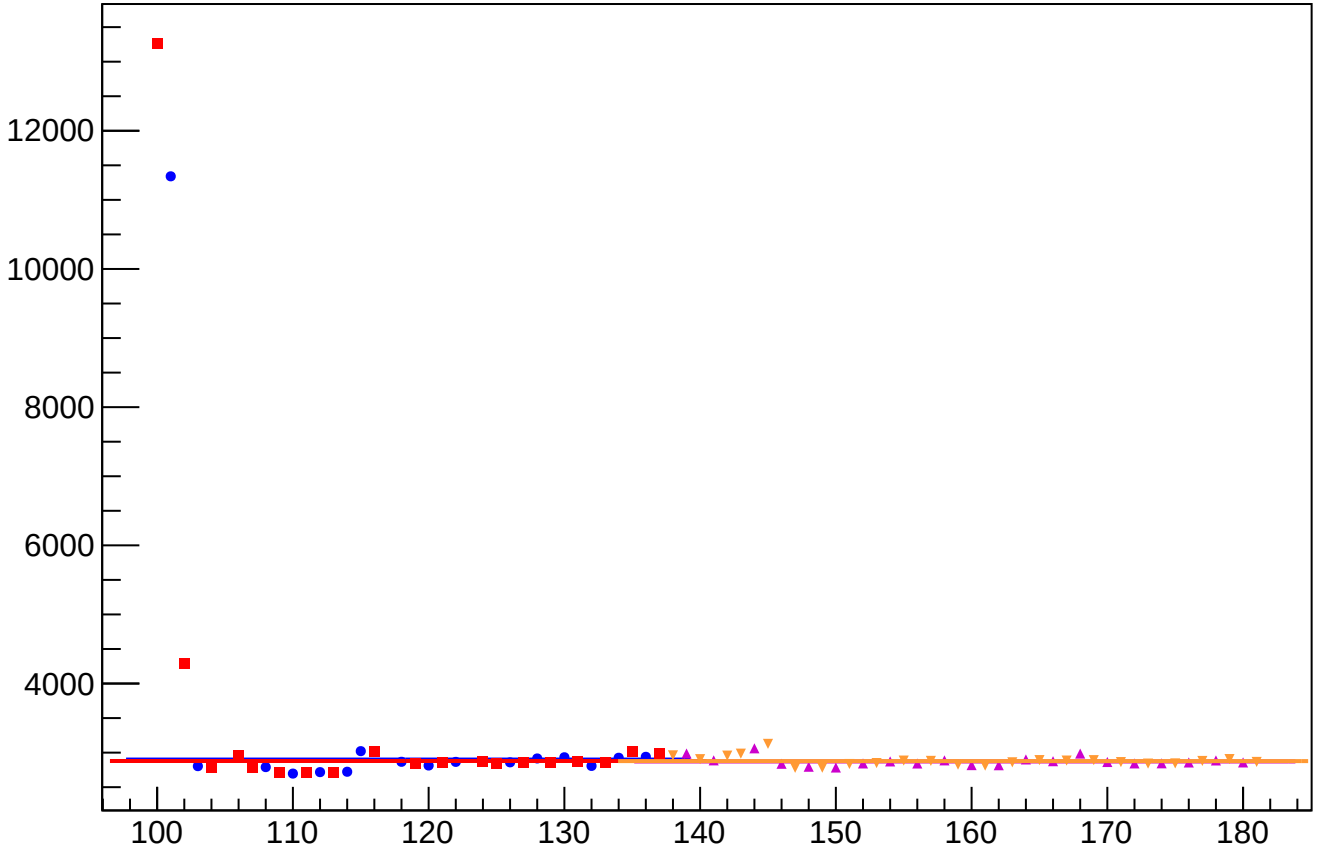
Right: 2171.724+/-771.049 $\chi^2$/NDF: 27.2/34

In: 2182.344+/-586.418 $\chi^2$/NDF:48.5/36

Out: 2561.210+/-570.045 $\chi^2$/NDF:40.7/41

All: 2377.140+/-408.749 $\chi^2$/NDF: 89.4/78

# asym_atr1_rms vs Slug, Sign Corrected




Right In: 2899.827+/-0.782 $\chi^2$/NDF: 741818.2/15

Left Out: 2877.348+/-0.475 $\chi^2$/NDF:21325.1/22

Right Out: 2878.957+/-0.760 $\chi^2$/NDF: 193282.4/18

Left In: 2871.929+/-0.489 $\chi^2$/NDF:17456.2/20

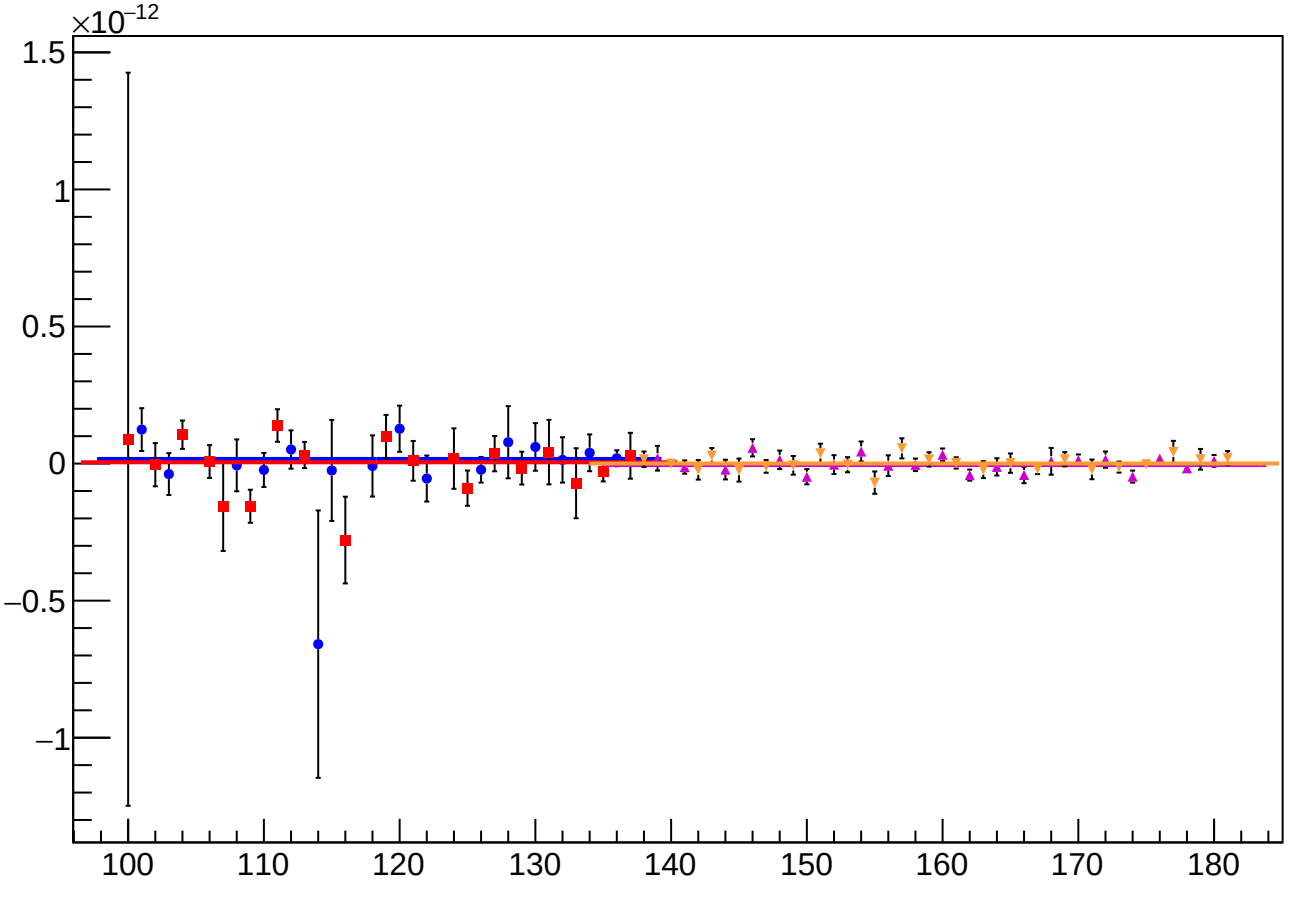
Left: 2874.715+/-0.341 $\chi^2$/NDF: 38844.4/43

Right: 2889.097+/-0.545 $\chi^2$/NDF: 935466.6/34

In: 2879.769+/-0.415 $\chi^2$/NDF:760188.9/36

Out: 2877.800+/-0.403 $\chi^2$/NDF:214610.7/41

All: 2878.757+/-0.289 $\chi^2$/NDF: 974811.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.4/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 39.6/43

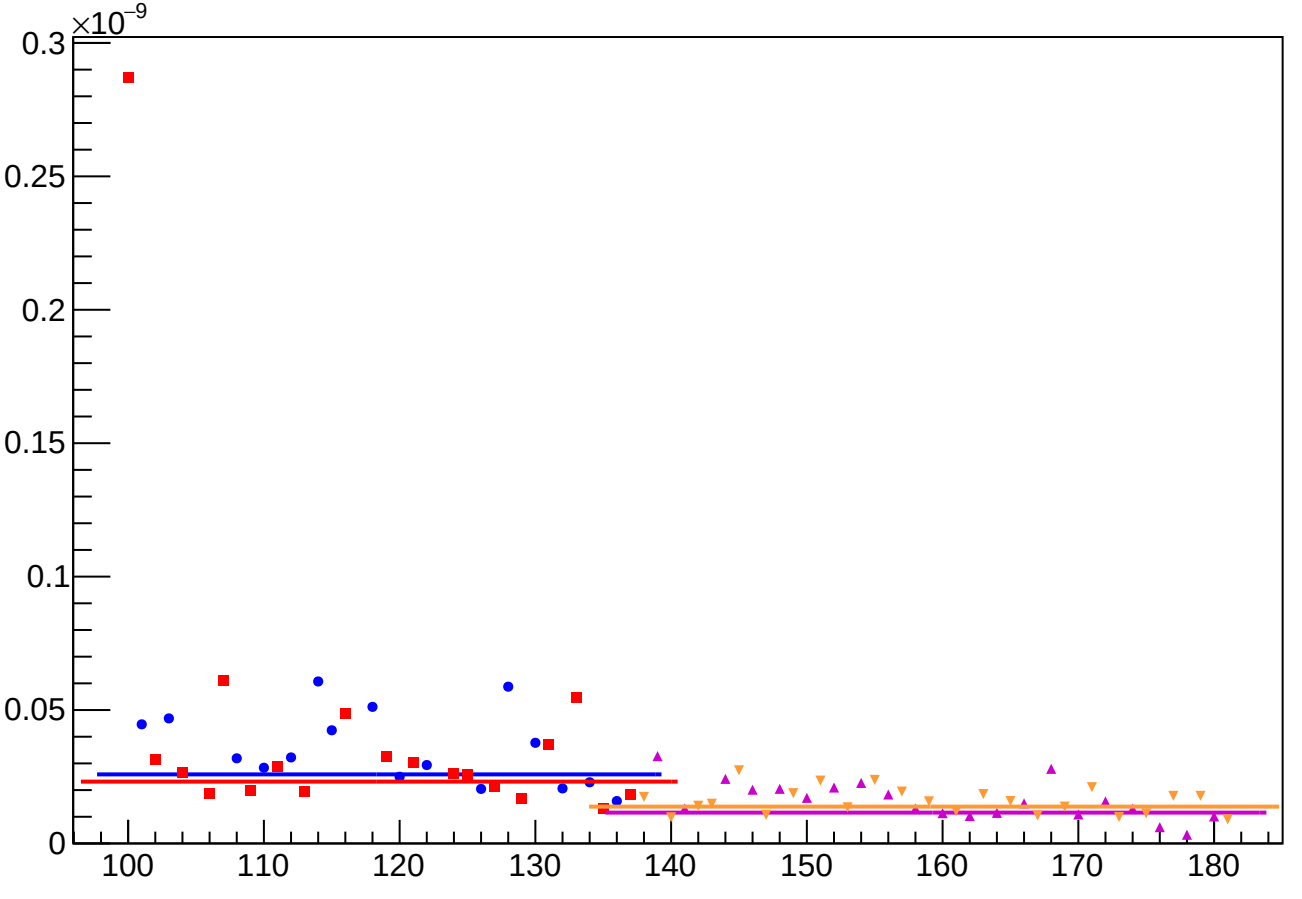
Right: 0.000+/-0.000 $\chi^2$/NDF: 34.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:35.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:39.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 75.6/78

# asym_atr1_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 865479.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1194489.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 688853.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3015460.1/20

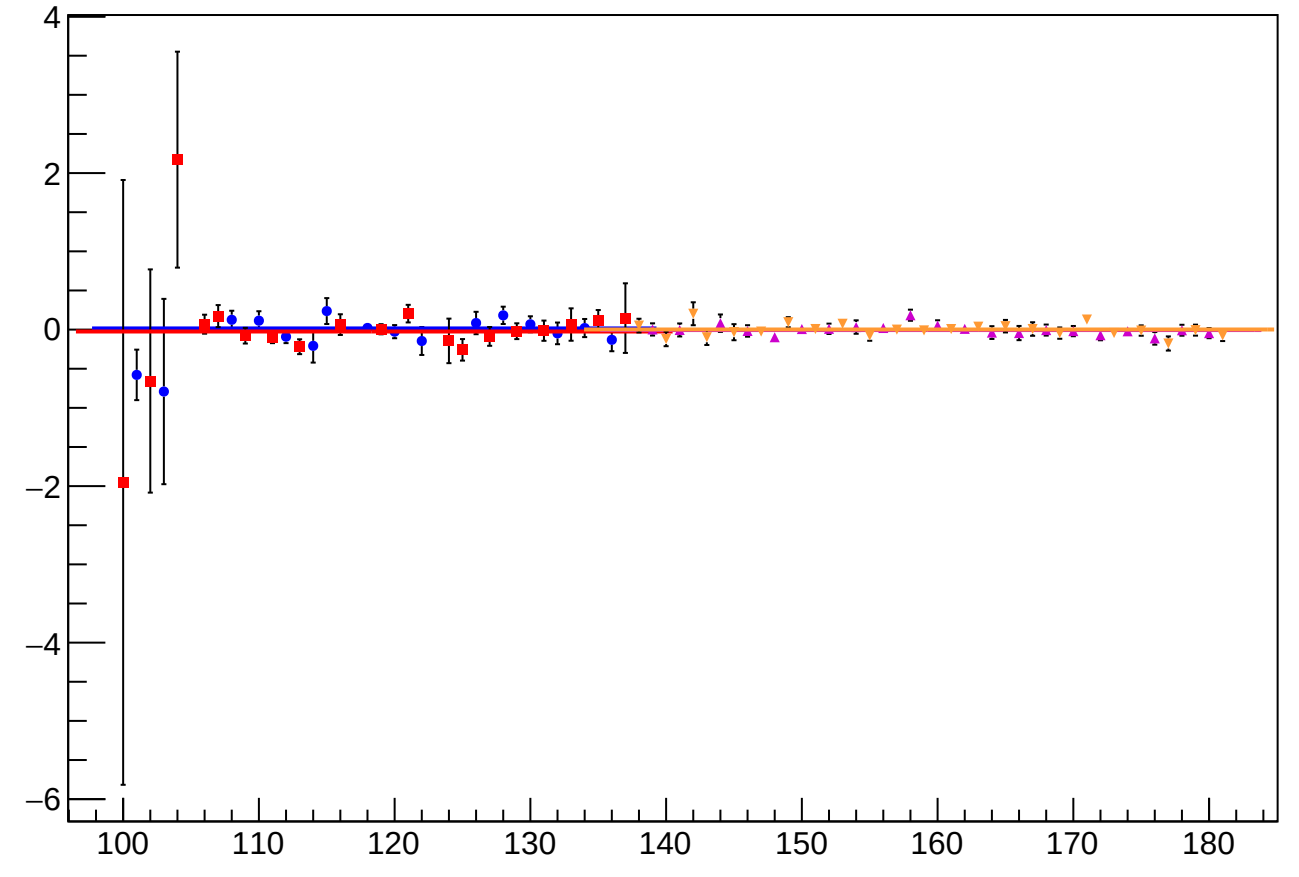
Left: 0.000+/-0.000 $\chi^2$/NDF: 4382617.3/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 1581998.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:5194491.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:2517698.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 7866685.9/78




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: 0.001+/-0.014 $\chi^2$/NDF:21.6/22

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: -0.006+/-0.015 $\chi^2$/NDF:14.7/20

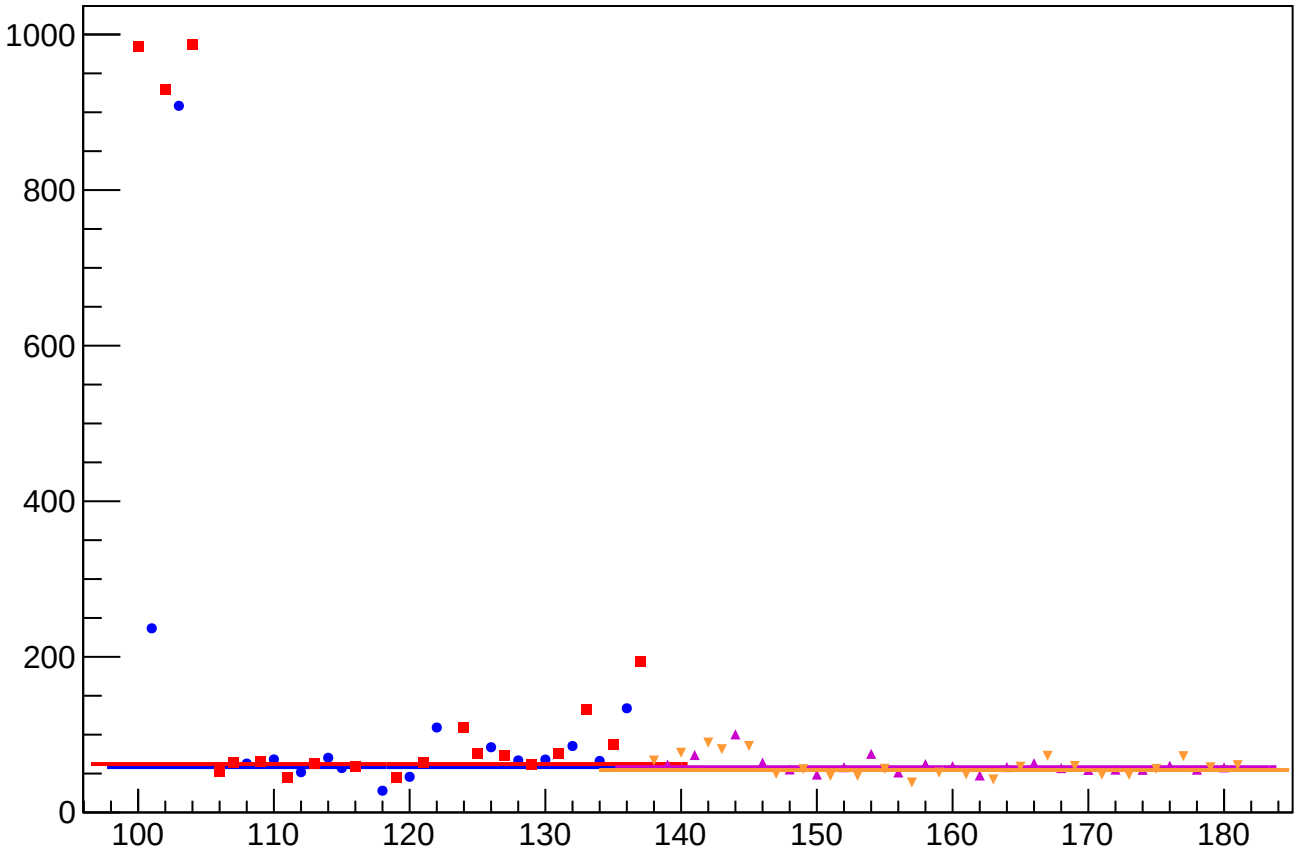
Left: -0.002+/-0.010 $\chi^2$/NDF: 36.4/43

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: -0.001+/-0.013 $\chi^2$/NDF:30.1/36

Out: -0.004+/-0.013 $\chi^2$/NDF:43.1/41

All: -0.002+/-0.009 $\chi^2$/NDF: 73.2/78




Right In: 58.313+/-0.020 $\chi^2$/NDF: 3260404.3/15

Left Out: 54.520+/-0.010 $\chi^2$/NDF:1196935.6/22

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627030.1/18

Left In: 58.117+/-0.011 $\chi^2$/NDF:641919.2/20

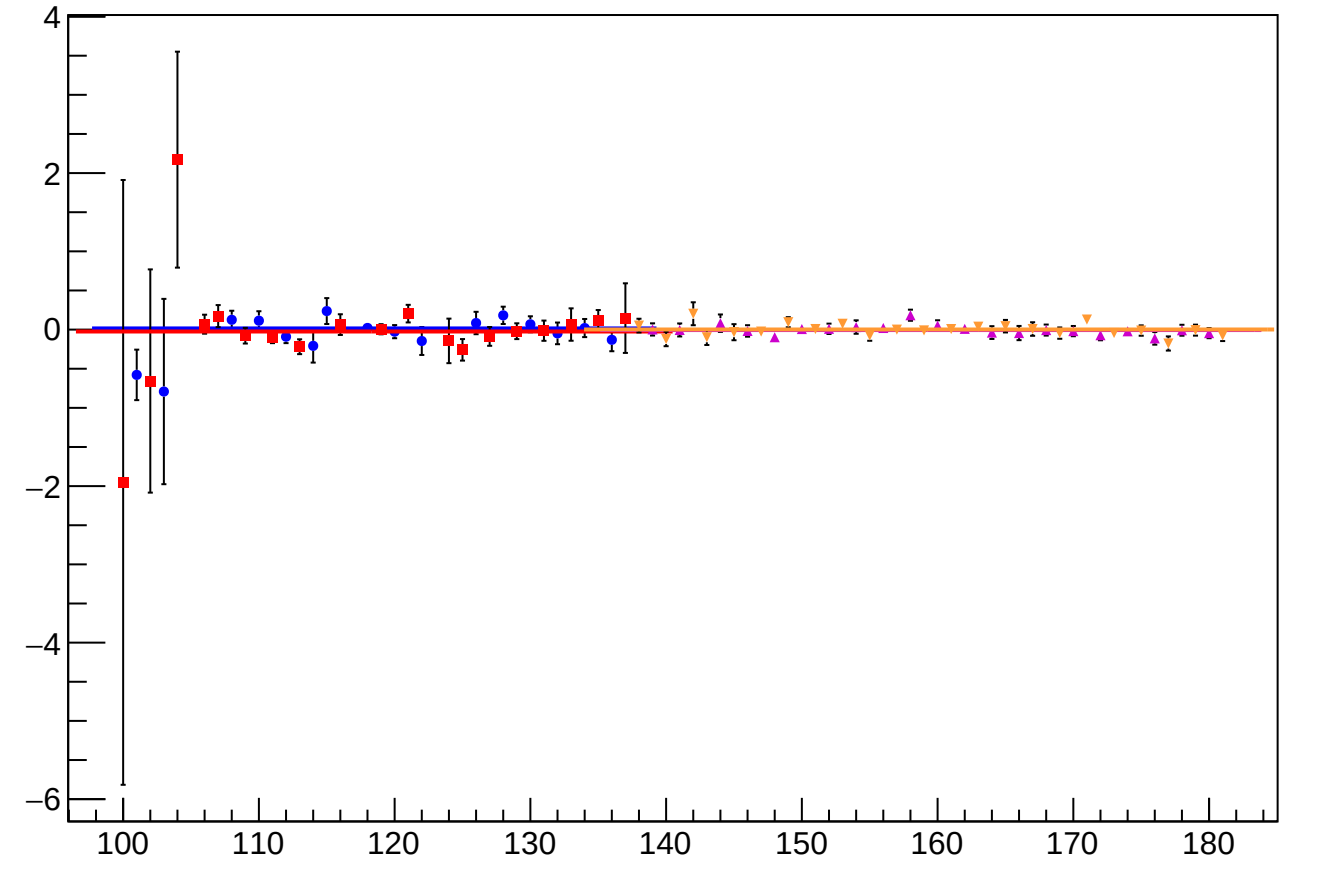
Left: 56.208+/-0.007 $\chi^2$/NDF: 1897403.0/43

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907159.6/34

In: 58.163+/-0.009 $\chi^2$/NDF:3902399.2/36

Out: 56.132+/-0.009 $\chi^2$/NDF:3943859.5/41

All: 57.100+/-0.007 $\chi^2$/NDF: 7870225.0/78




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: 0.001+/-0.014 $\chi^2$/NDF:21.6/22

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: -0.006+/-0.015 $\chi^2$/NDF:14.7/20

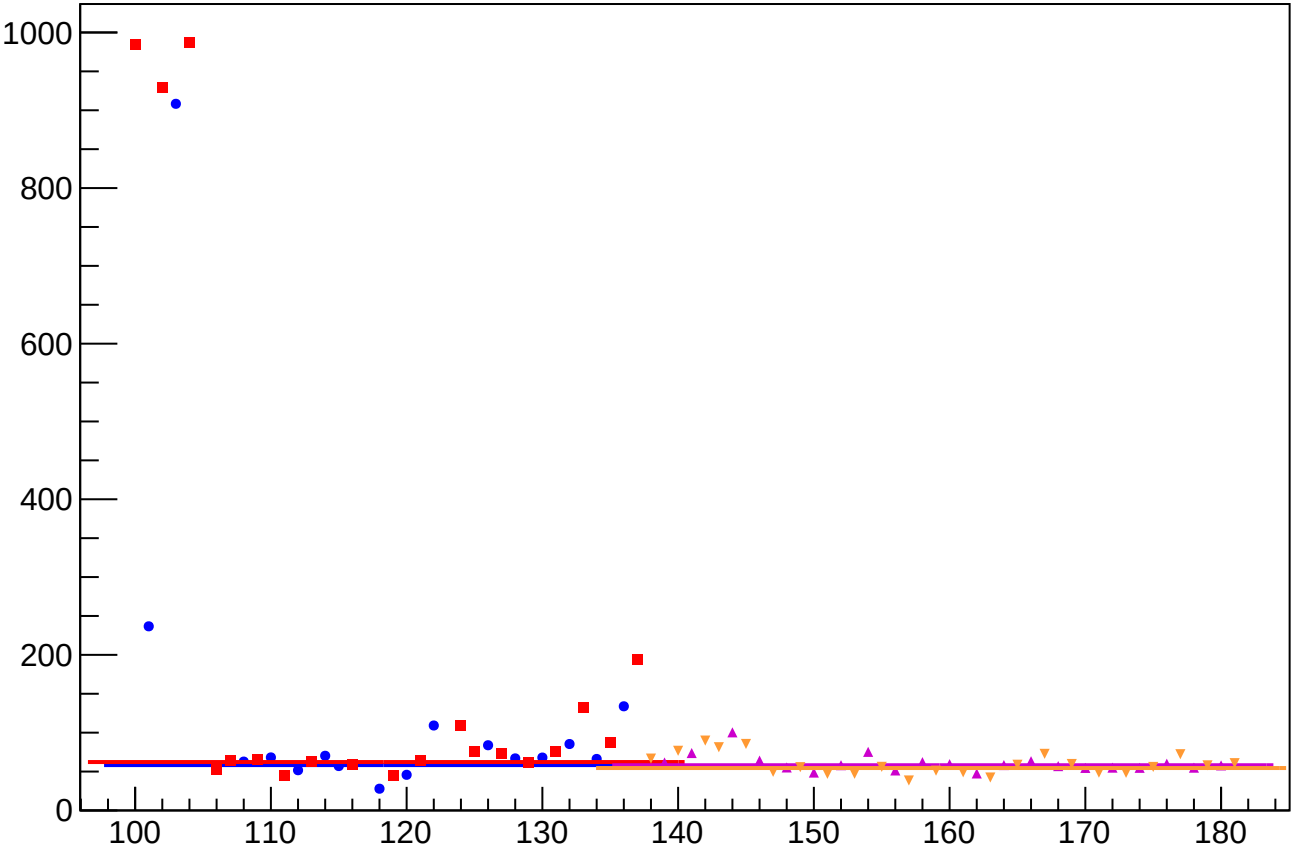
Left: -0.002+/-0.010 $\chi^2$/NDF: 36.4/43

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: -0.001+/-0.013 $\chi^2$/NDF:30.1/36

Out: -0.004+/-0.013 $\chi^2$/NDF:43.1/41

All: -0.002+/-0.009 $\chi^2$/NDF: 73.2/78




Right In: 58.313+/-0.020 $\chi^2$/NDF: 3260404.3/15

Left Out: 54.520+/-0.010 $\chi^2$/NDF:1196935.6/22

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627030.1/18

Left In: 58.117+/-0.011 $\chi^2$/NDF:641919.2/20

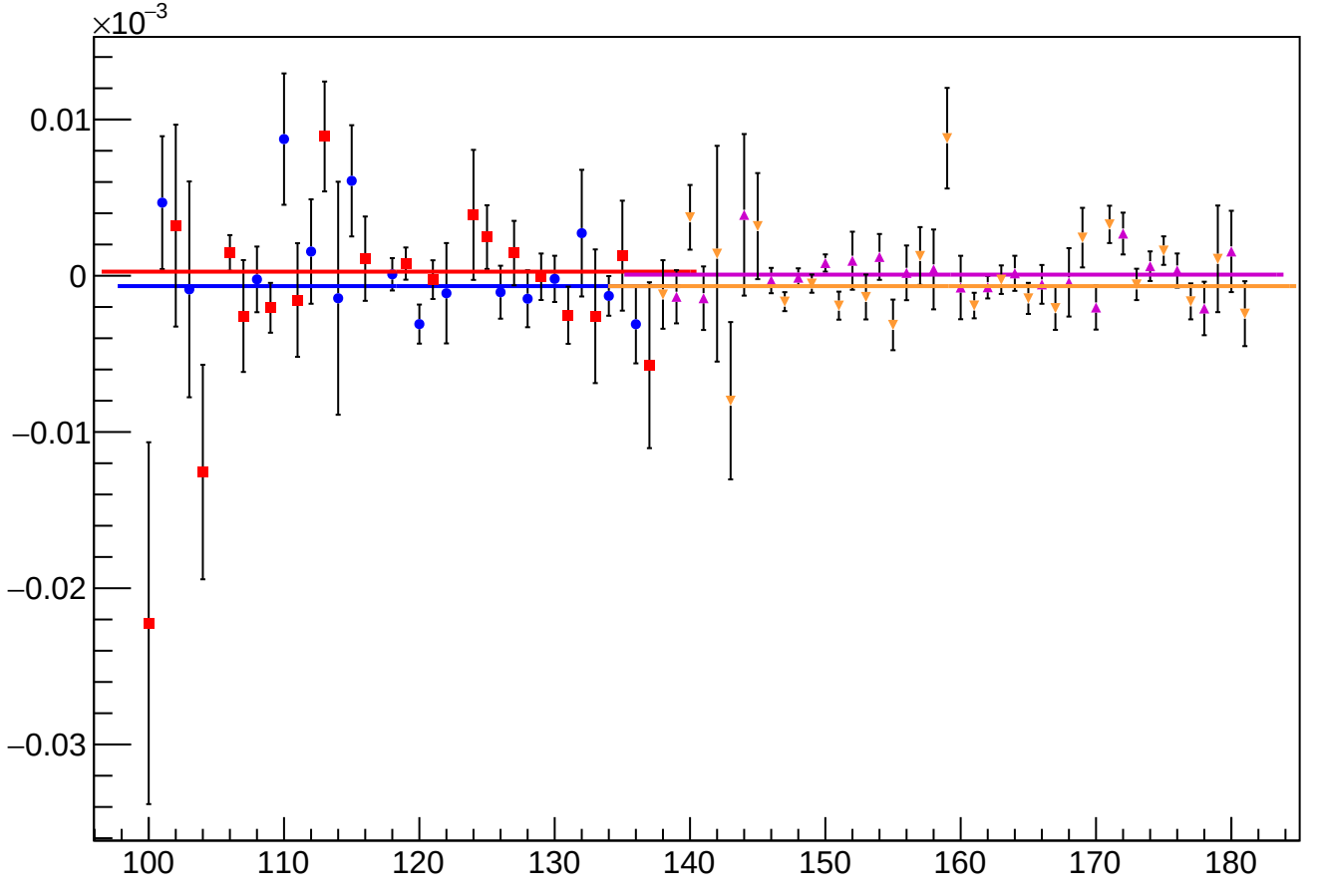
Left: 56.208+/-0.007 $\chi^2$/NDF: 1897403.0/43

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907159.6/34

In: 58.163+/-0.009 $\chi^2$/NDF:3902399.2/36

Out: 56.132+/-0.009 $\chi^2$/NDF:3943859.5/41

All: 57.100+/-0.007 $\chi^2$/NDF: 7870225.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:50.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 24.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.9/20

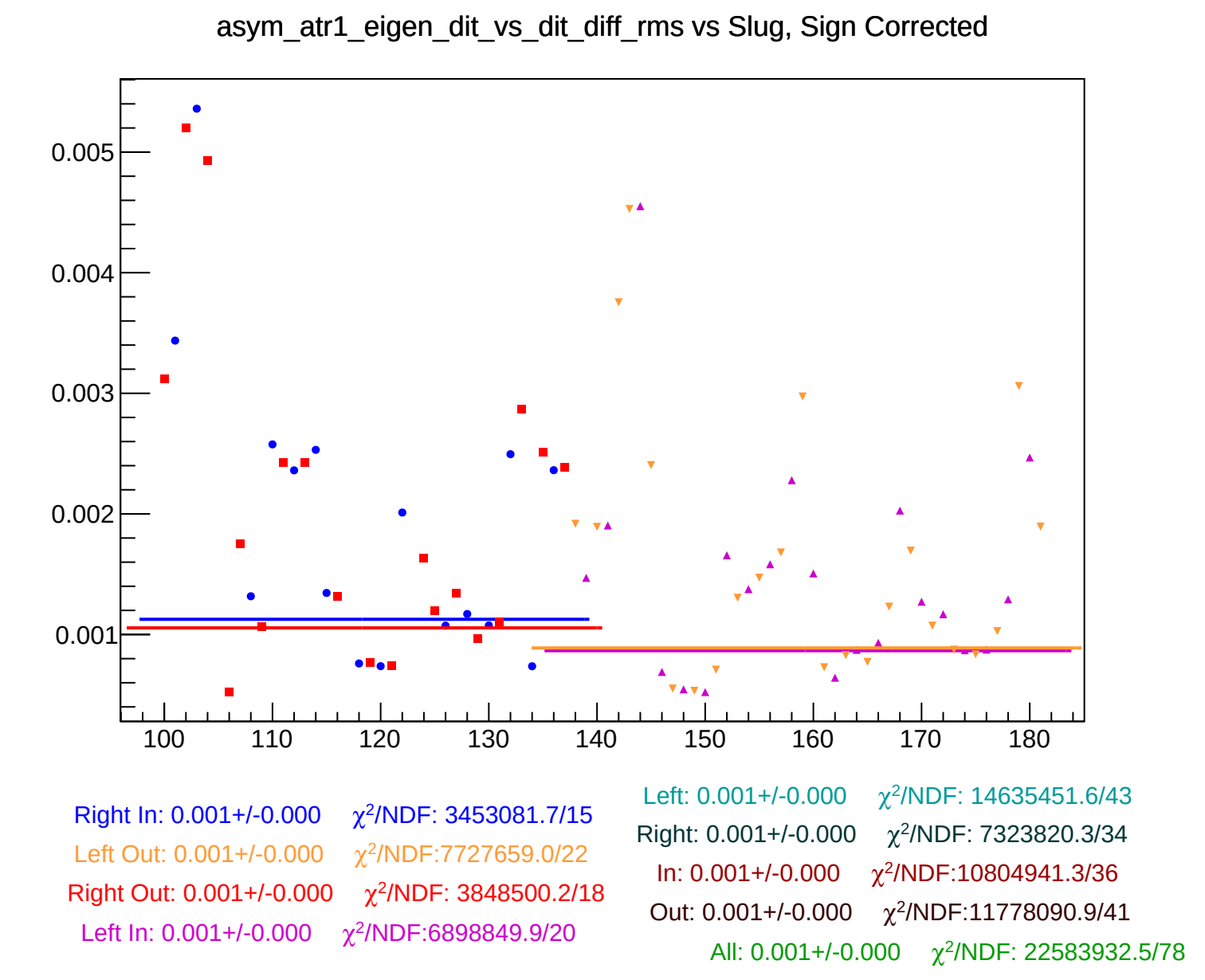
Left: -0.000+/-0.000 $\chi^2$/NDF: 70.3/43

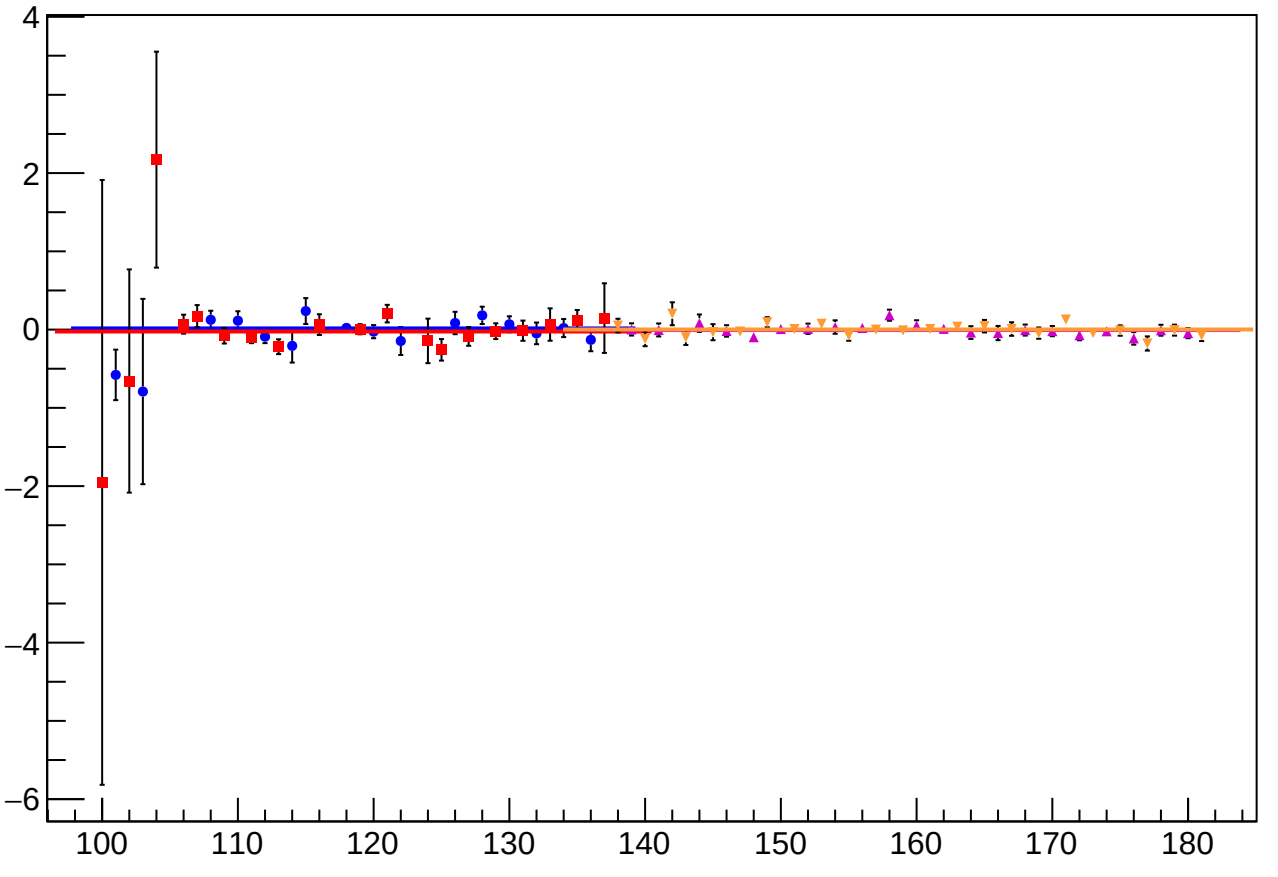
Right: -0.000+/-0.000 $\chi^2$/NDF: 43.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:33.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:78.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 114.0/78


asym_atr1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.005
0.004
0.003
0.002
0.001
100
110
120
130
140
150
160
170
180
Right In: 0.001+/-0.000 χ²/NDF: 3453081.7/15
Left Out: 0.001+/-0.000 χ²/NDF:7727659.0/22
Right Out: 0.001+/-0.000 χ²/NDF: 3848500.2/18
Left In: 0.001+/-0.000 χ²/NDF:6898849.9/20
Left: 0.001+/-0.000 χ²/NDF: 14635451.6/43
Right: 0.001+/-0.000 χ²/NDF: 7323820.3/34
In: 0.001+/-0.000 χ²/NDF:10804941.3/36
Out: 0.001+/-0.000 χ²/NDF:11778090.9/41
All: 0.001+/-0.000 χ²/NDF: 22583932.5/78




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: 0.001+/-0.014 $\chi^2$/NDF:21.6/22

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: -0.006+/-0.015 $\chi^2$/NDF:14.7/20

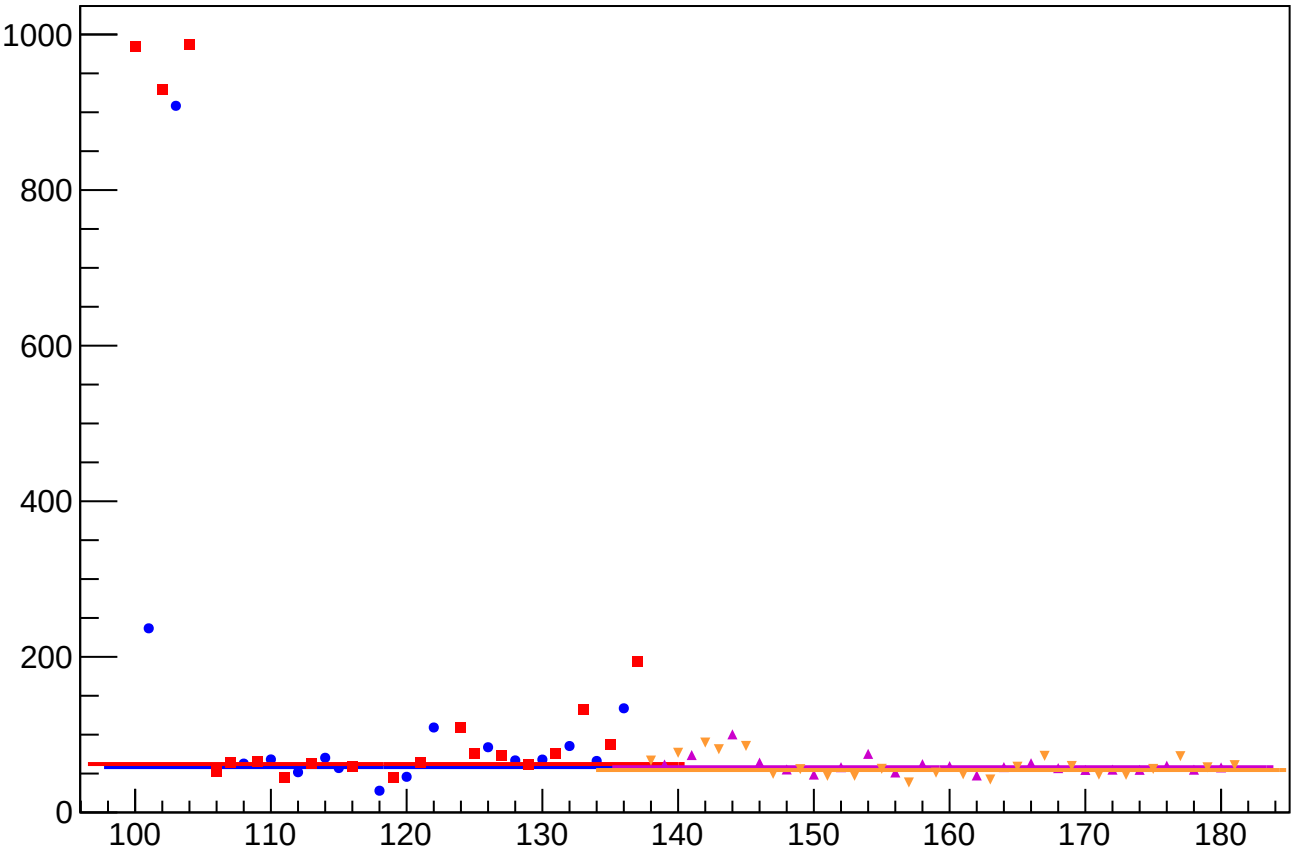
Left: -0.002+/-0.010 $\chi^2$/NDF: 36.4/43

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: -0.001+/-0.013 $\chi^2$/NDF:30.1/36

Out: -0.004+/-0.013 $\chi^2$/NDF:43.1/41

All: -0.002+/-0.009 $\chi^2$/NDF: 73.2/78




Right In: 58.312+/-0.020 $\chi^2$/NDF: 3260484.2/15

Left Out: 54.519+/-0.010 $\chi^2$/NDF:1197008.2/22

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627022.3/18

Left In: 58.117+/-0.011 $\chi^2$/NDF:641942.6/20

Left: 56.208+/-0.007 $\chi^2$/NDF: 1897515.0/43

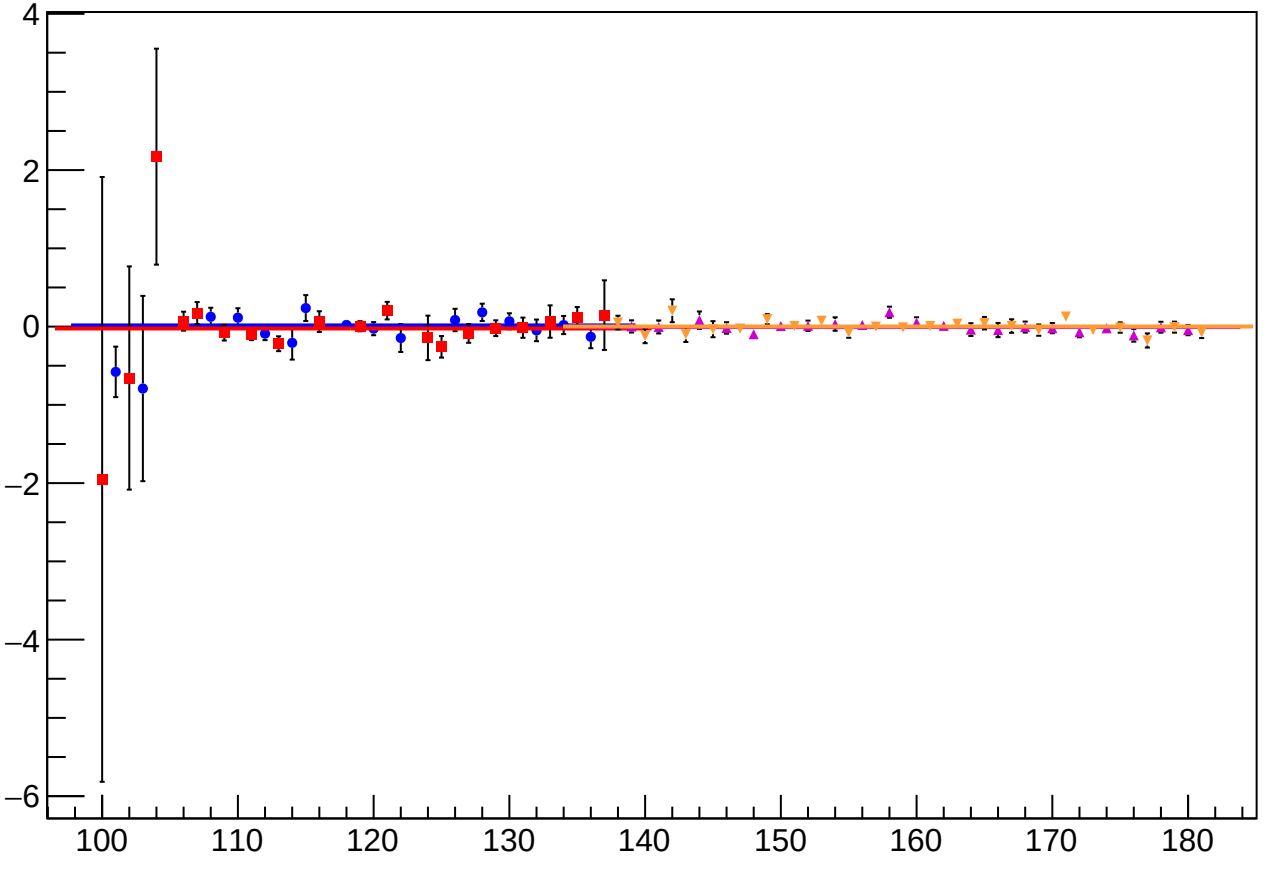
Right: 60.260+/-0.014 $\chi^2$/NDF: 5907238.5/34

In: 58.163+/-0.009 $\chi^2$/NDF:3902501.9/36

Out: 56.131+/-0.009 $\chi^2$/NDF:3943933.4/41

All: 57.100+/-0.007 $\chi^2$/NDF: 7870407.1/78

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: 0.001+/-0.014 $\chi^2$/NDF:21.6/22

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: -0.006+/-0.015 $\chi^2$/NDF:14.7/20

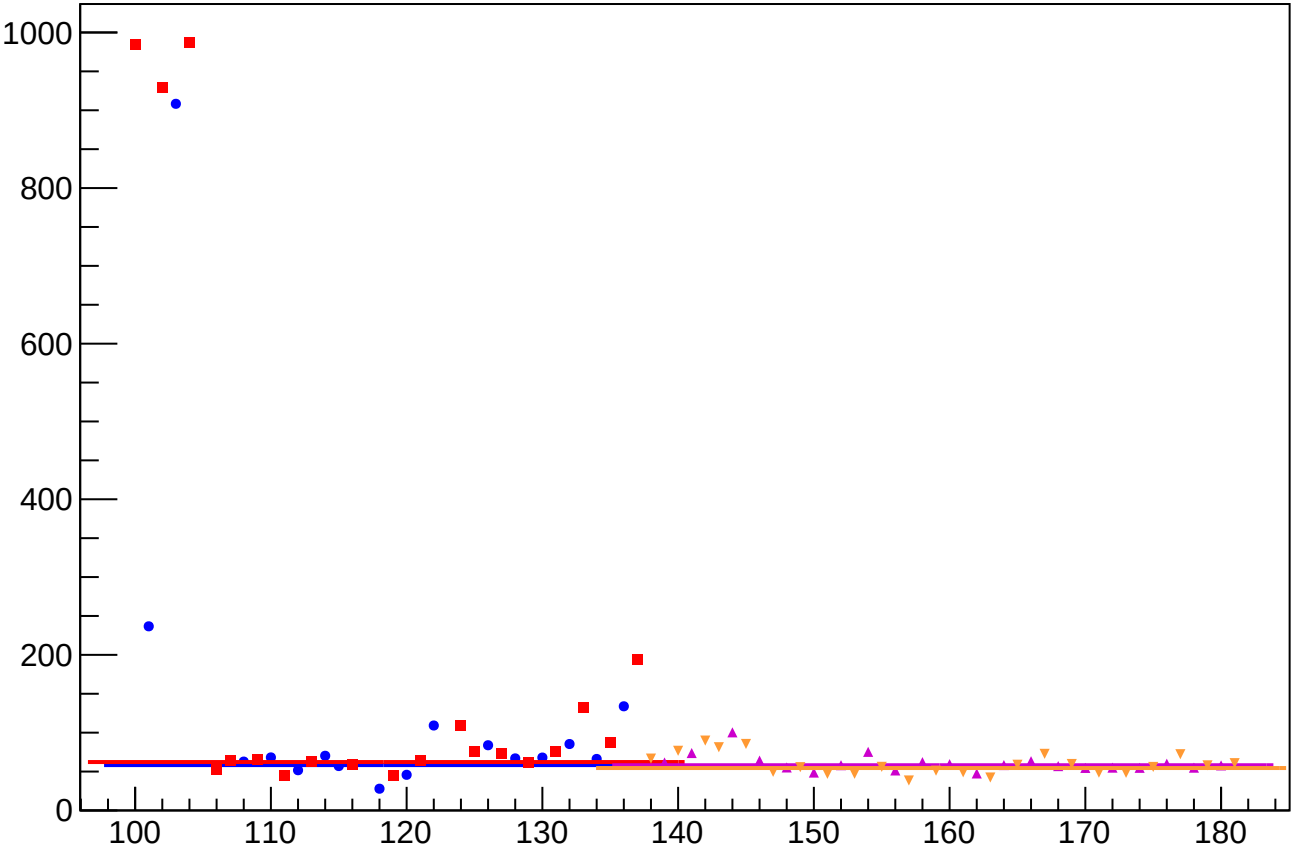
Left: -0.002+/-0.010 $\chi^2$/NDF: 36.4/43

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: -0.001+/-0.013 $\chi^2$/NDF:30.1/36

Out: -0.004+/-0.013 $\chi^2$/NDF:43.1/41

All: -0.002+/-0.009 $\chi^2$/NDF: 73.2/78




Right In: 58.312+/-0.020 $\chi^2$/NDF: 3260484.2/15

Left Out: 54.519+/-0.010 $\chi^2$/NDF:1197008.2/22

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627022.3/18

Left In: 58.117+/-0.011 $\chi^2$/NDF:641942.6/20

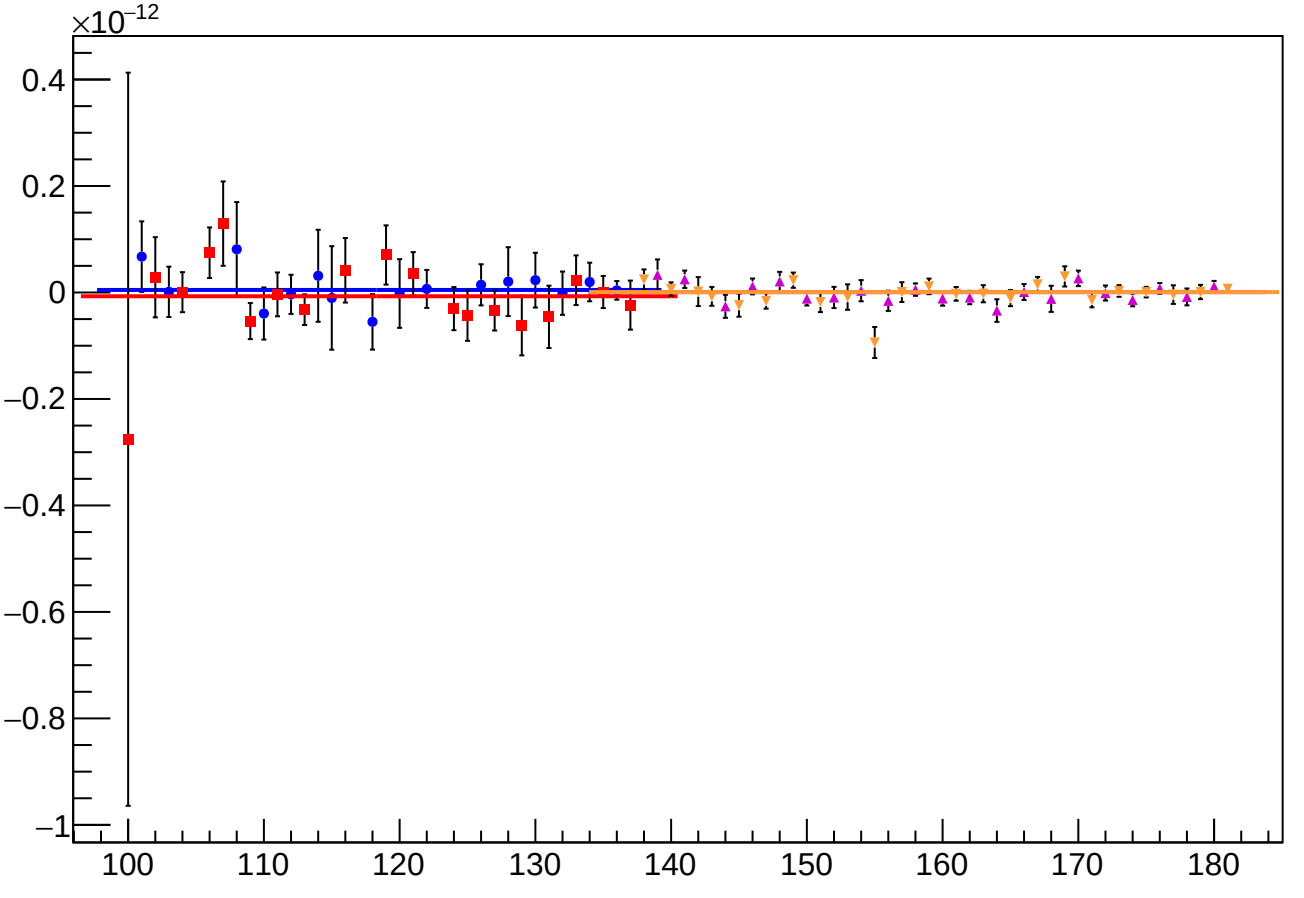
Left: 56.208+/-0.007 $\chi^2$/NDF: 1897515.0/43

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907238.5/34

In: 58.163+/-0.009 $\chi^2$/NDF:3902501.9/36

Out: 56.131+/-0.009 $\chi^2$/NDF:3943933.4/41

All: 57.100+/-0.007 $\chi^2$/NDF: 7870407.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.1/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.6/20

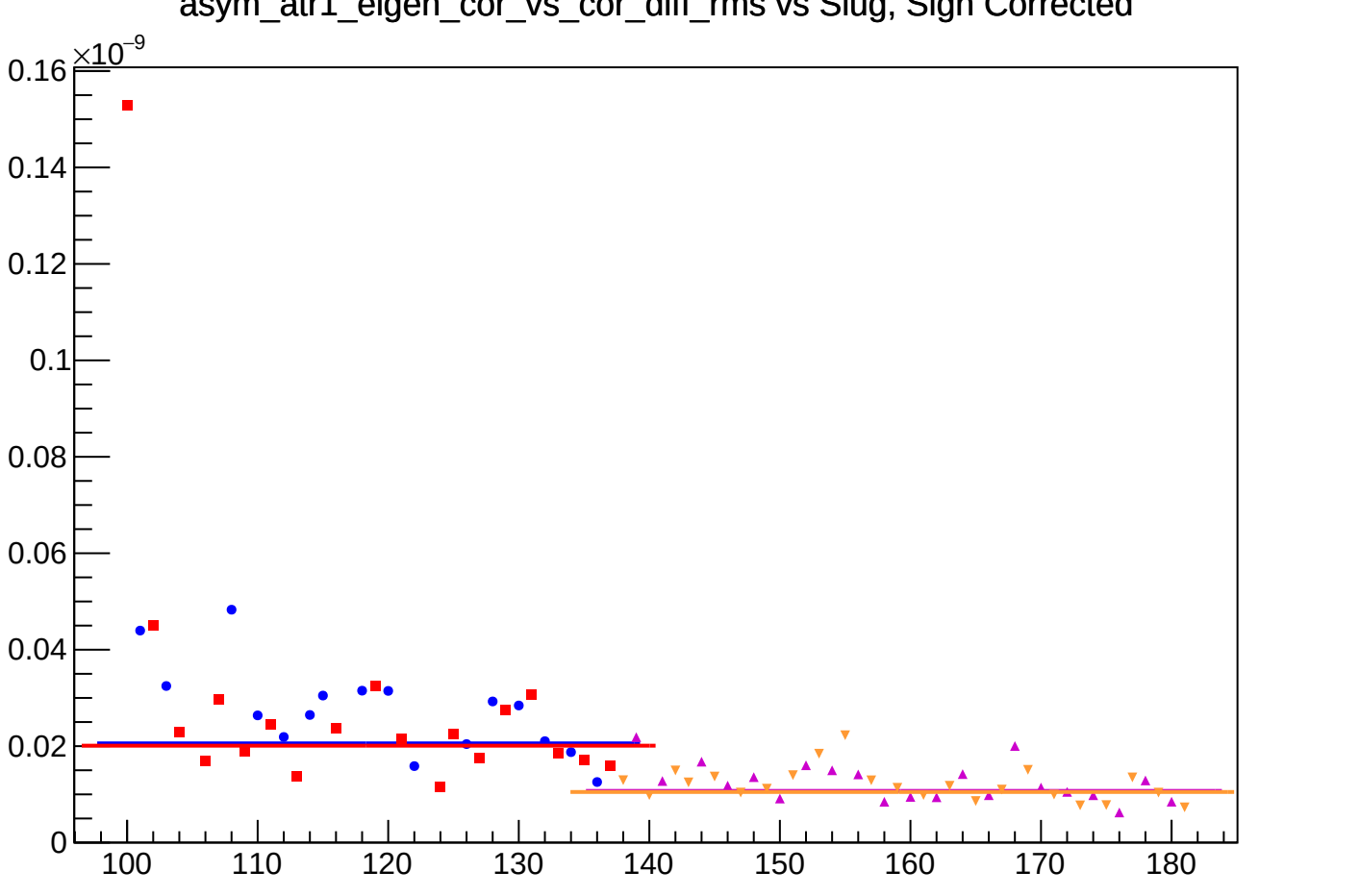
Left: 0.000+/-0.000 $\chi^2$/NDF: 44.7/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 21.2/34

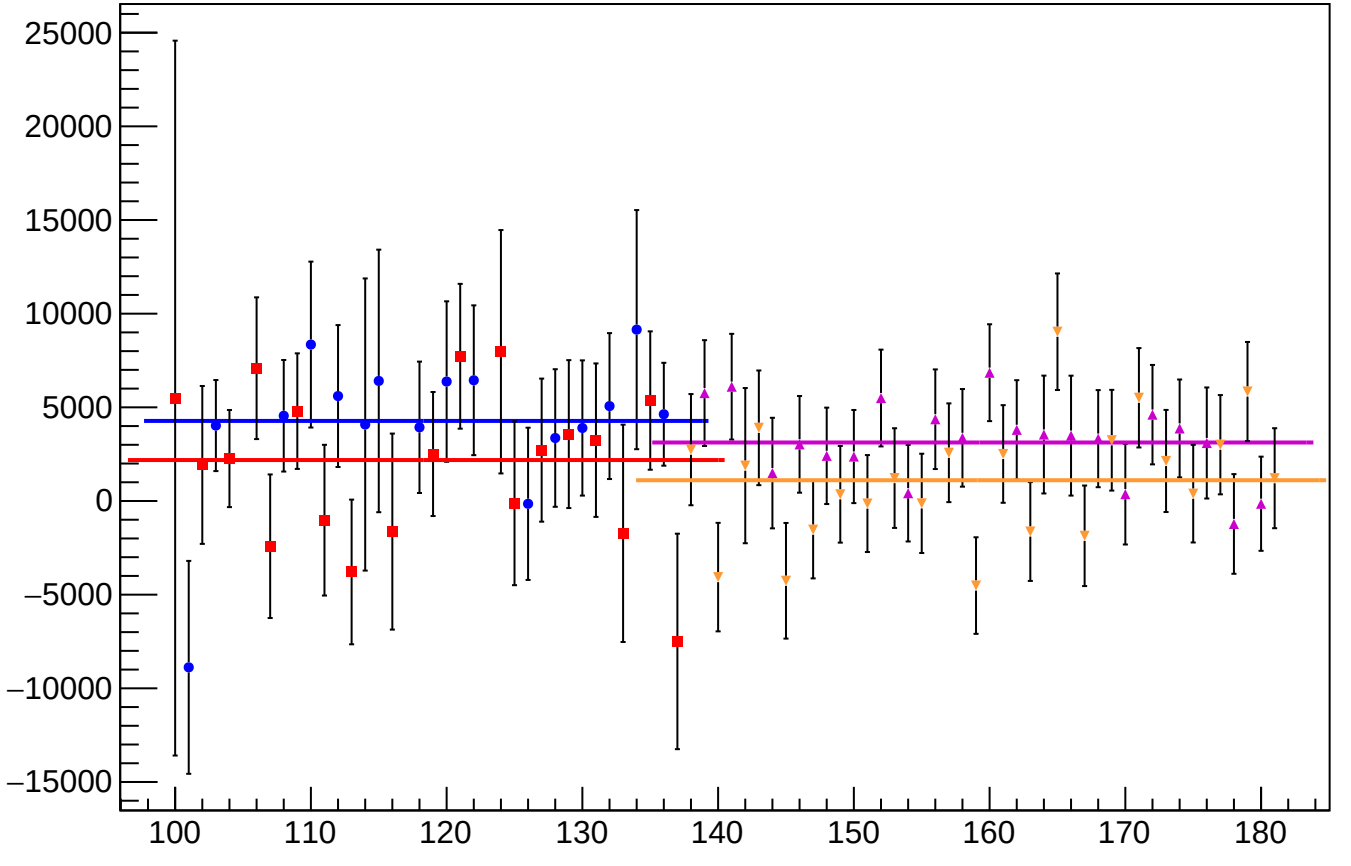
In: 0.000+/-0.000 $\chi^2$/NDF:24.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:41.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 66.0/78


asym_atr1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1319631.2/15
Left Out: 0.000+/-0.000 χ²/NDF:1568111.7/22
Right Out: 0.000+/-0.000 χ²/NDF: 812191.2/18
Left In: 0.000+/-0.000 χ²/NDF:1879876.5/20
Left: 0.000+/-0.000 χ²/NDF: 3452872.3/43
Right: 0.000+/-0.000 χ²/NDF: 2134051.1/34
In: 0.000+/-0.000 χ²/NDF:4881392.8/36
Out: 0.000+/-0.000 χ²/NDF:4027054.2/41
All: 0.000+/-0.000 χ²/NDF: 8918131.4/78

# reg_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4274.393+/-951.956 $\chi^2$/NDF: 8.9/15

Left Out: 1108.810+/-572.657 $\chi^2$/NDF:30.4/22

Right Out: 2186.264+/-922.104 $\chi^2$/NDF: 14.8/18

Left In: 3123.076+/-587.451 $\chi^2$/NDF:12.6/20

Left: 2090.260+/-410.060 $\chi^2$/NDF: 49.1/43

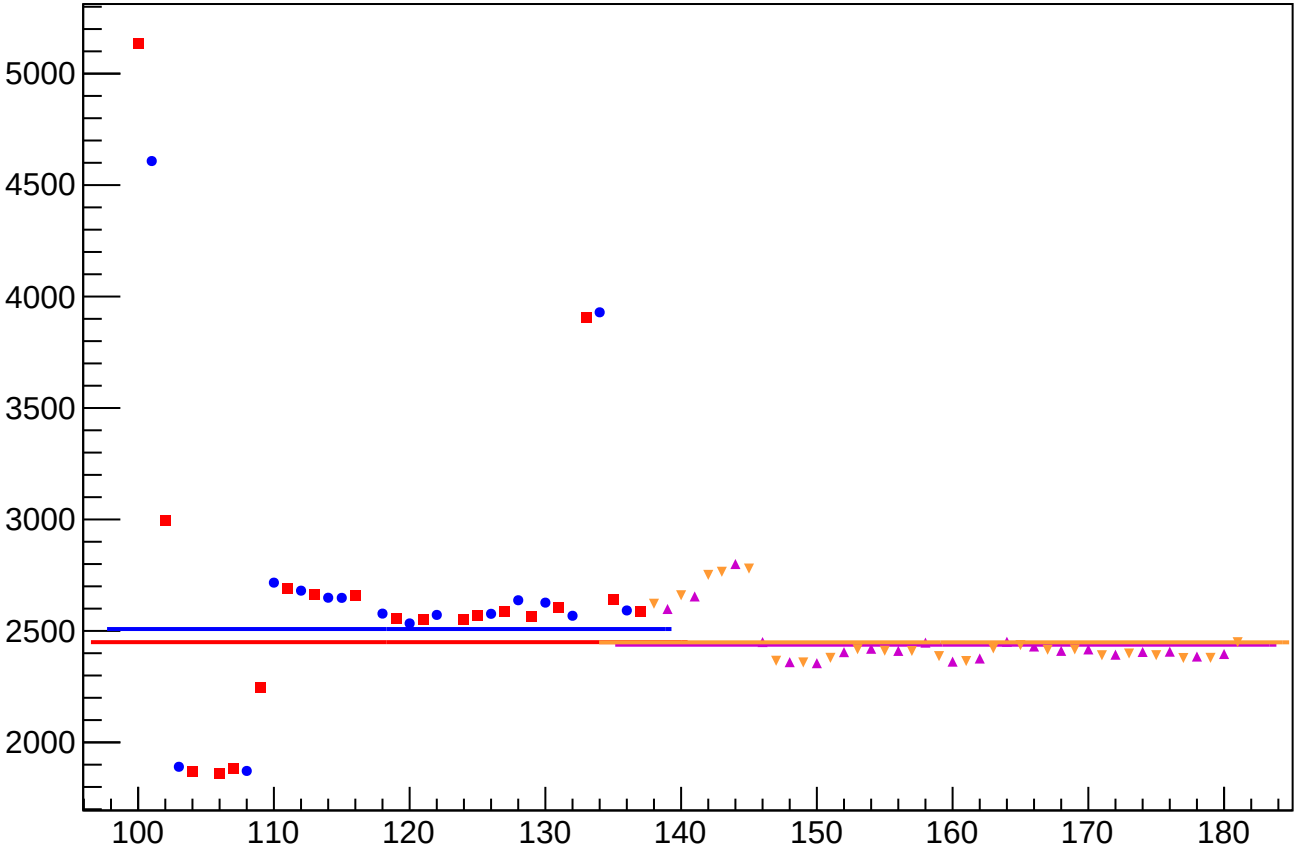
Right: 3197.075+/-662.328 $\chi^2$/NDF: 26.2/34

In: 3440.596+/-499.925 $\chi^2$/NDF:22.6/36

Out: 1408.701+/-486.477 $\chi^2$/NDF:46.2/41

All: 2396.953+/-348.648 $\chi^2$/NDF: 77.3/78

# reg_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.466+/-0.673 $\chi^2$/NDF: 611589.6/15

Left Out: 2448.801+/-0.405 $\chi^2$/NDF:88955.6/22

Right Out: 2449.623+/-0.652 $\chi^2$/NDF: 436901.0/18

Left In: 2438.096+/-0.415 $\chi^2$/NDF:58747.7/20

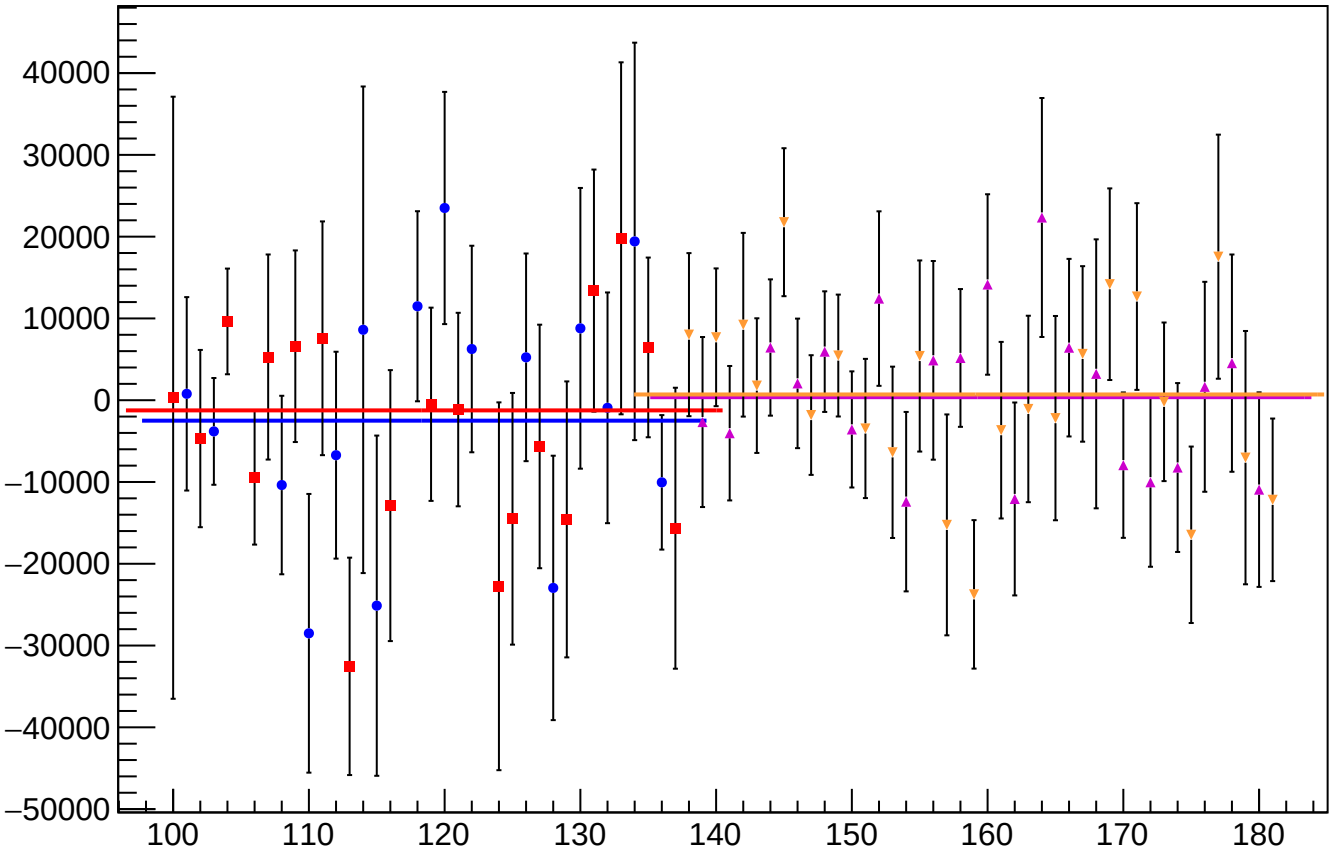
Left: 2443.585+/-0.290 $\chi^2$/NDF: 148043.9/43

Right: 2478.107+/-0.468 $\chi^2$/NDF: 1052433.3/34

In: 2457.503+/-0.354 $\chi^2$/NDF:678252.2/36

Out: 2449.030+/-0.344 $\chi^2$/NDF:525857.8/41

All: 2453.151+/-0.247 $\chi^2$/NDF: 1204405.1/78




Right In: -2500.602+/-3075.580 $\chi^2$/NDF: 13.8/15

Left Out: 701.973+/-2094.619 $\chi^2$/NDF:25.9/22

Right Out: -1244.352+/-2852.739 $\chi^2$/NDF: 16.6/18

Left In: 370.306+/-2166.587 $\chi^2$/NDF:13.8/20

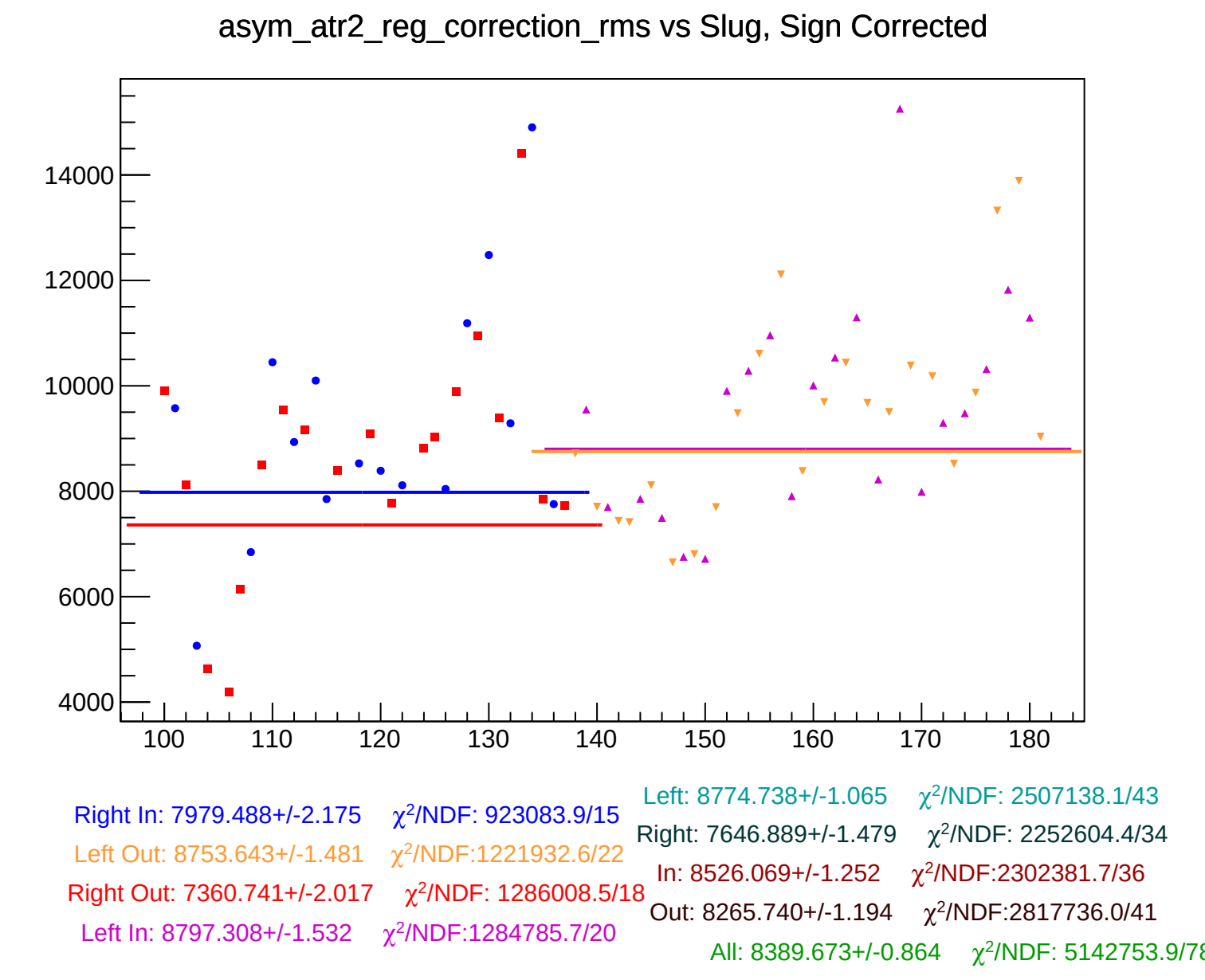
Left: 541.740+/-1505.919 $\chi^2$/NDF: 39.7/43

Right: -1825.322+/-2091.539 $\chi^2$/NDF: 30.4/34

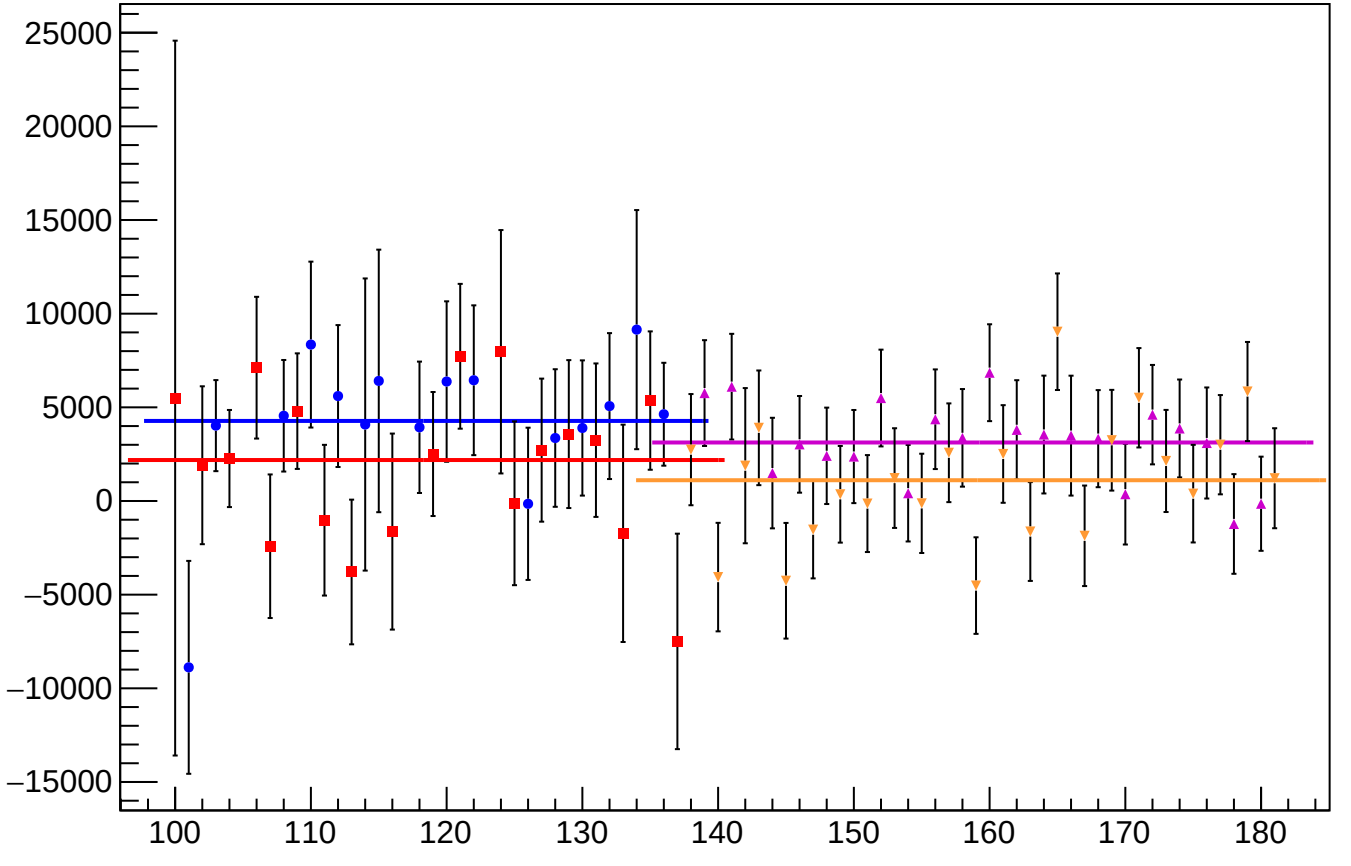
In: -581.863+/-1771.228 $\chi^2$/NDF:28.1/36

Out: 20.218+/-1688.374 $\chi^2$/NDF:42.8/41

All: -266.412+/-1222.102 $\chi^2$/NDF: 71.0/78


asym_atr2_reg_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
100
110
120
130
140
150
160
170
180
Right In: 7979.488+/-2.175 χ²/NDF: 923083.9/15
Left Out: 8753.643+/-1.481 χ²/NDF:1221932.6/22
Right Out: 7360.741+/-2.017 χ²/NDF: 1286008.5/18
Left In: 8797.308+/-1.532 χ²/NDF:1284785.7/20
Left: 8774.738+/-1.065 χ²/NDF: 2507138.1/43
Right: 7646.889+/-1.479 χ²/NDF: 2252604.4/34
In: 8526.069+/-1.252 χ²/NDF:2302381.7/36
Out: 8265.740+/-1.194 χ²/NDF:2817736.0/41
All: 8389.673+/-0.864 χ²/NDF: 5142753.9/78

# cor_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4273.903+/-951.956 $\chi^2$/NDF: 8.9/15

Left Out: 1108.616+/-572.657 $\chi^2$/NDF:30.4/22

Right Out: 2186.887+/-922.111 $\chi^2$/NDF: 14.8/18

Left In: 3122.915+/-587.451 $\chi^2$/NDF:12.6/20

Left: 2090.082+/-410.060 $\chi^2$/NDF: 49.1/43

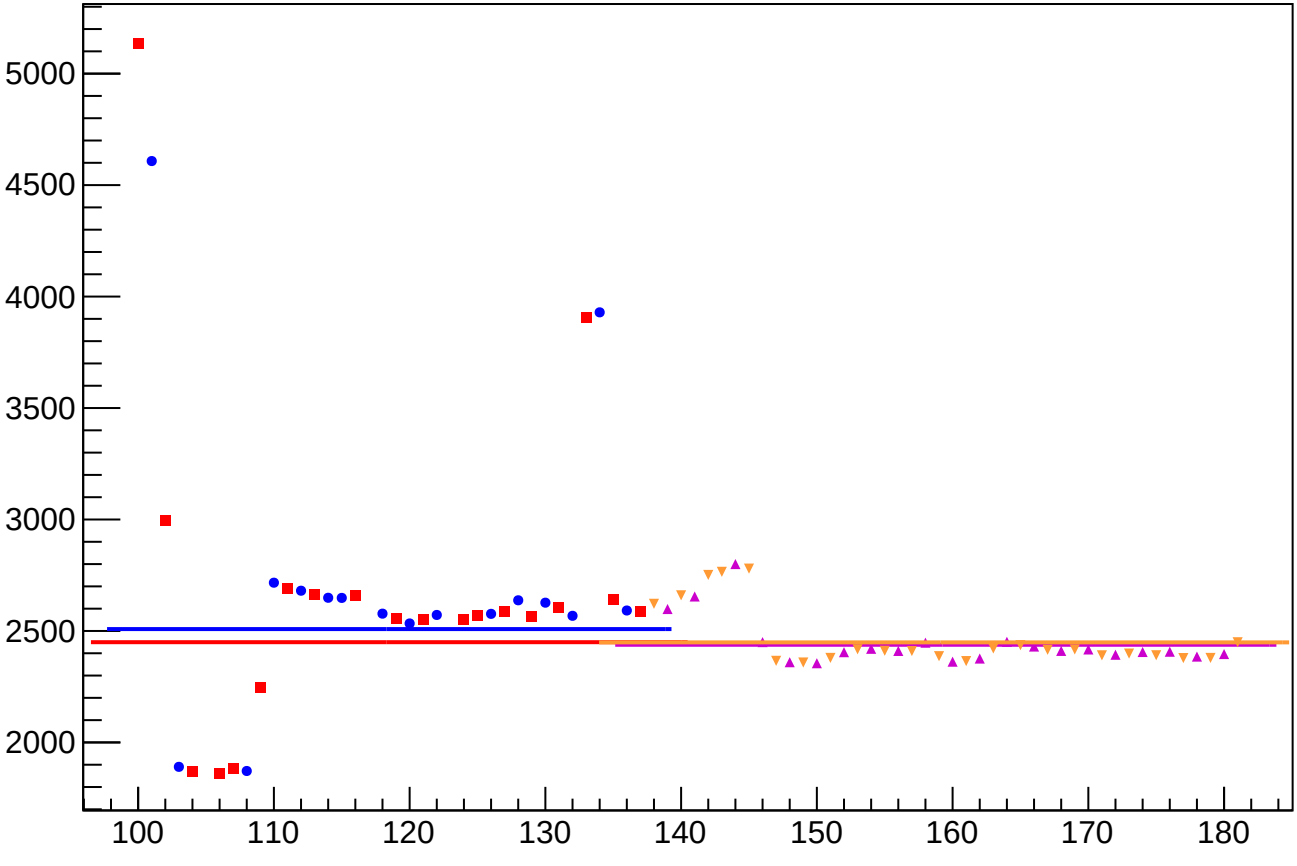
Right: 3197.167+/-662.331 $\chi^2$/NDF: 26.2/34

In: 3440.344+/-499.925 $\chi^2$/NDF:22.6/36

Out: 1408.731+/-486.478 $\chi^2$/NDF:46.2/41

All: 2396.848+/-348.649 $\chi^2$/NDF: 77.3/78

# cor_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.467+/-0.673 $\chi^2$/NDF: 611587.4/15

Left Out: 2448.801+/-0.405 $\chi^2$/NDF:88955.6/22

Right Out: 2449.647+/-0.652 $\chi^2$/NDF: 436846.6/18

Left In: 2438.096+/-0.415 $\chi^2$/NDF:58747.7/20

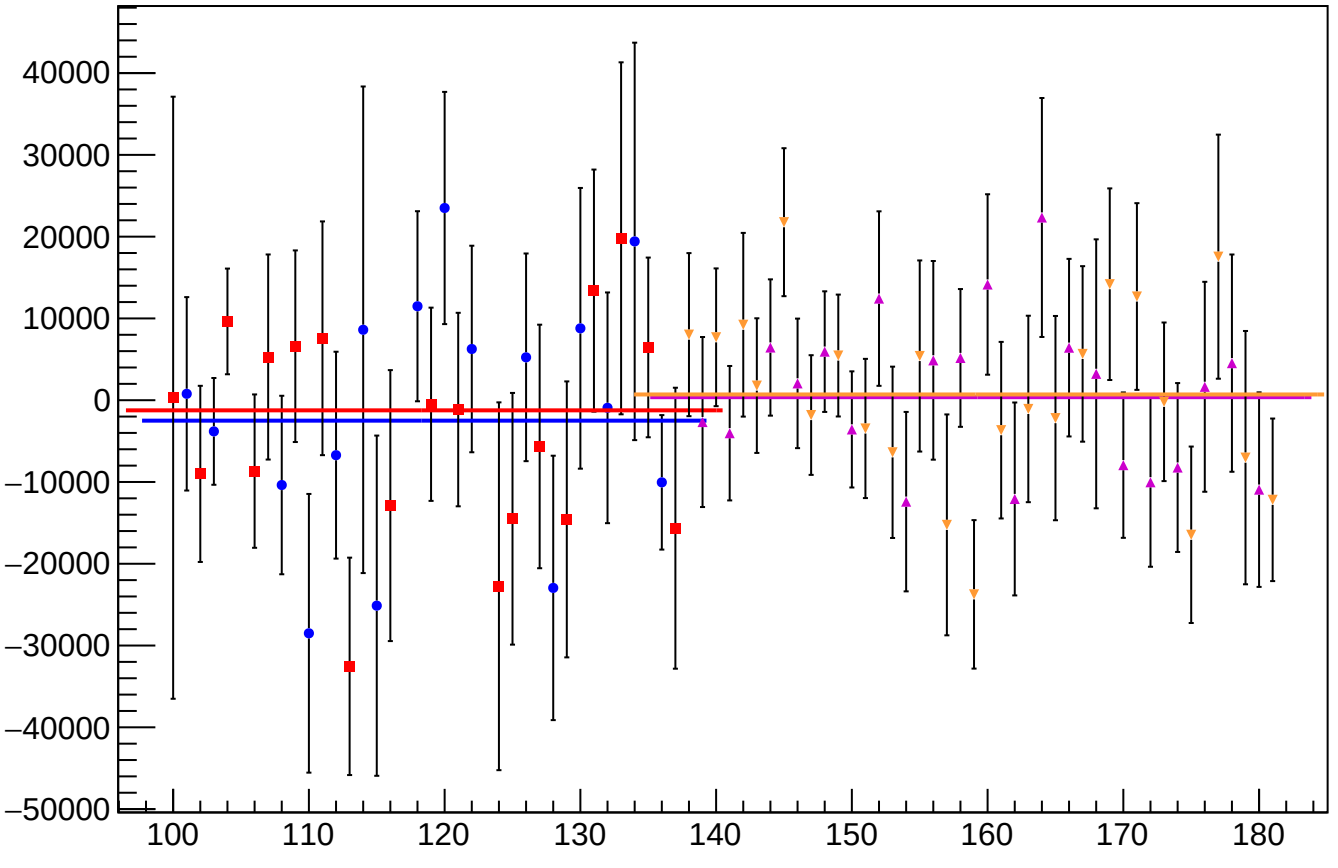
Left: 2443.585+/-0.290 $\chi^2$/NDF: 148043.9/43

Right: 2478.121+/-0.468 $\chi^2$/NDF: 1052373.5/34

In: 2457.504+/-0.354 $\chi^2$/NDF:678250.3/36

Out: 2449.037+/-0.344 $\chi^2$/NDF:525803.4/41

All: 2453.155+/-0.247 $\chi^2$/NDF: 1204348.4/78




Right In: -2500.380+/-3075.668 $\chi^2$/NDF: 13.8/15

Left Out: 701.968+/-2094.616 $\chi^2$/NDF:25.9/22

Right Out: -1239.896+/-2893.464 $\chi^2$/NDF: 16.6/18

Left In: 370.277+/-2166.586 $\chi^2$/NDF:13.8/20

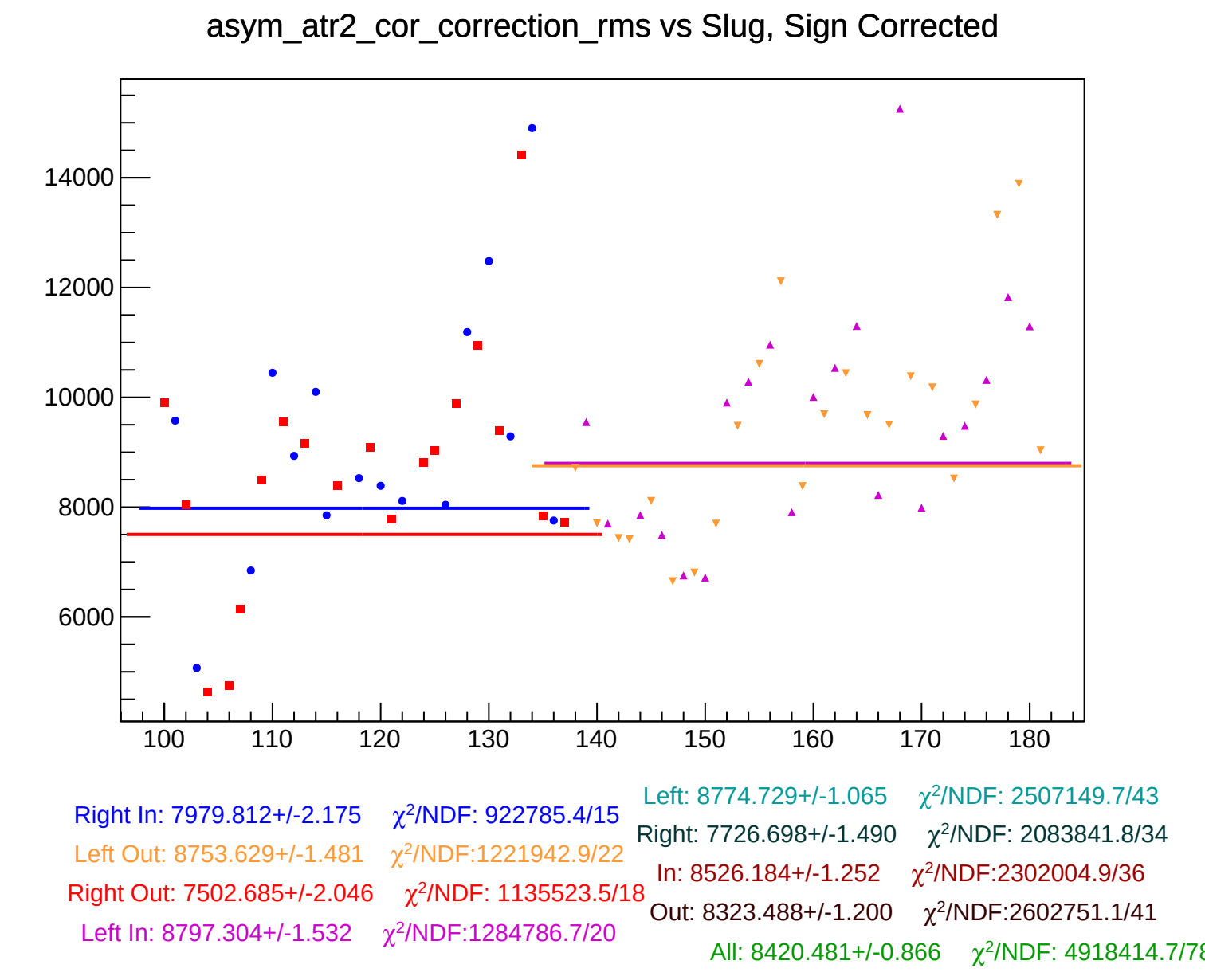
Left: 541.723+/-1505.918 $\chi^2$/NDF: 39.7/43

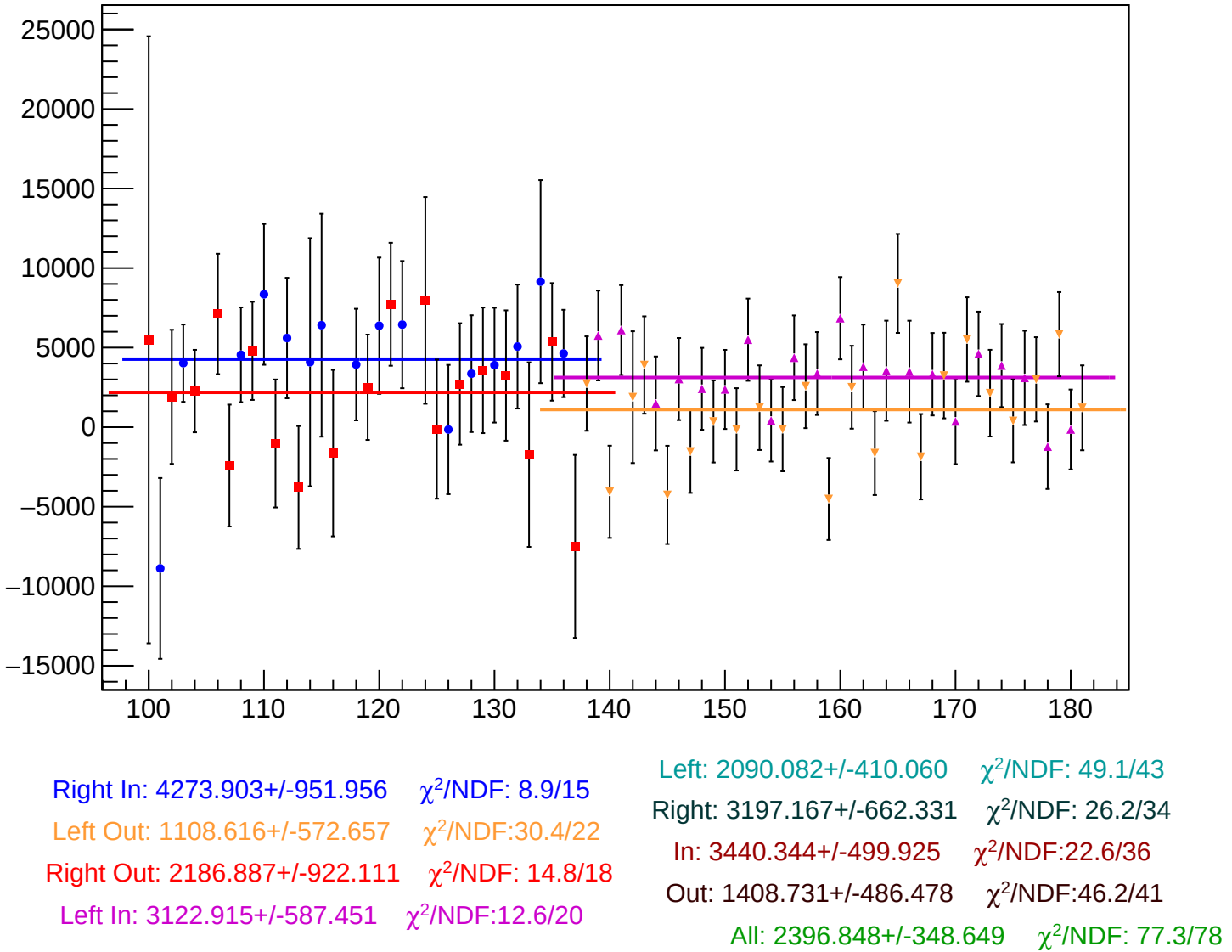
Right: -1831.698+/-2107.459 $\chi^2$/NDF: 30.5/34

In: -581.772+/-1771.244 $\chi^2$/NDF:28.1/36

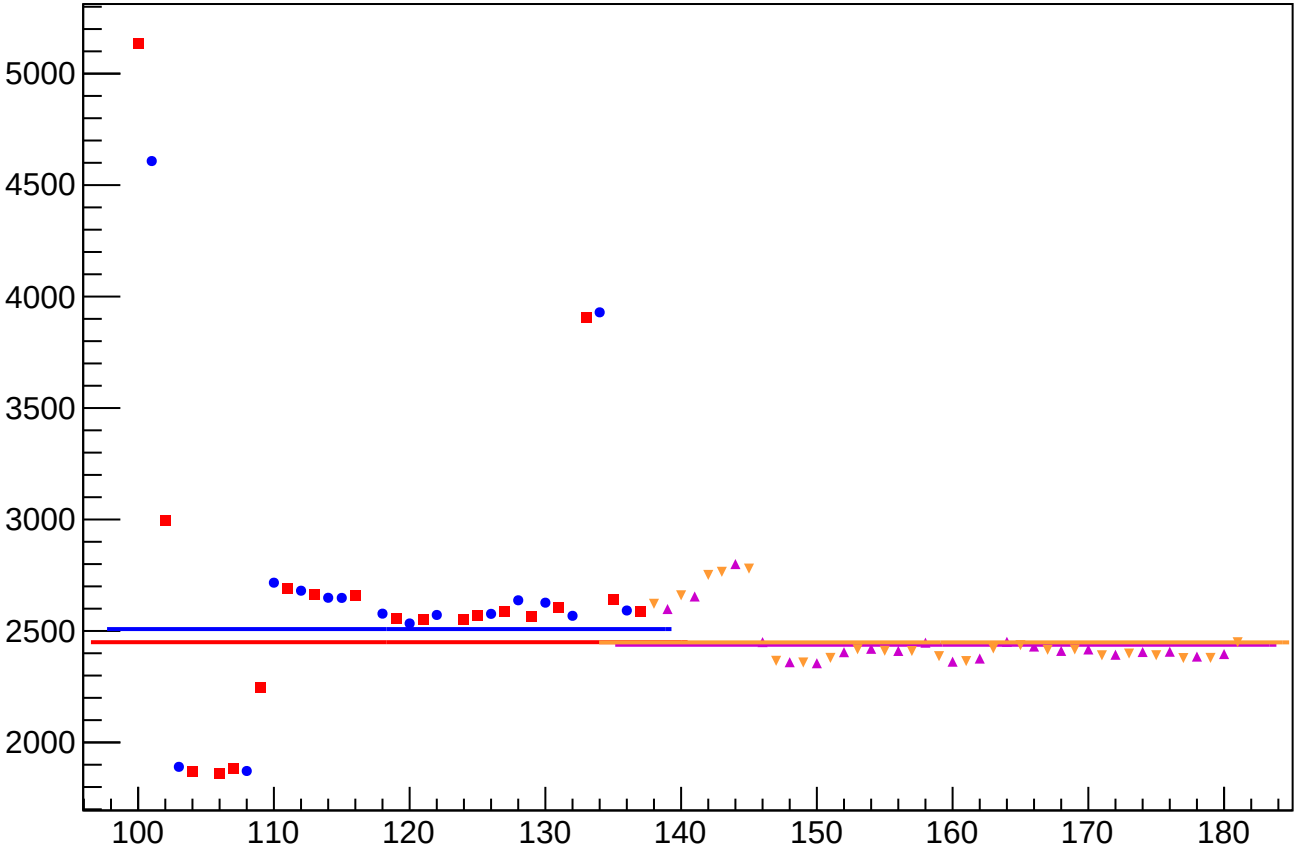
Out: 34.251+/-1696.699 $\chi^2$/NDF:42.8/41

All: -260.525+/-1225.253 $\chi^2$/NDF: 71.0/78


asym_atr2_cor_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
110
120
130
140
150
160
170
180
Right In: 7979.812+/-2.175 χ²/NDF: 922785.4/15
Left Out: 8753.629+/-1.481 χ²/NDF:1221942.9/22
Right Out: 7502.685+/-2.046 χ²/NDF: 1135523.5/18
Left In: 8797.304+/-1.532 χ²/NDF:1284786.7/20
Left: 8774.729+/-1.065 χ²/NDF: 2507149.7/43
Right: 7726.698+/-1.490 χ²/NDF: 2083841.8/34
In: 8526.184+/-1.252 χ²/NDF:2302004.9/36
Out: 8323.488+/-1.200 χ²/NDF:2602751.1/41
All: 8420.481+/-0.866 χ²/NDF: 4918414.7/78


eigen_cor_asym_atr2_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 4273.903+/-951.956 χ²/NDF: 8.9/15
Left Out: 1108.616+/-572.657 χ²/NDF:30.4/22
Right Out: 2186.887+/-922.111 χ²/NDF: 14.8/18
Left In: 3122.915+/-587.451 χ²/NDF:12.6/20
Left: 2090.082+/-410.060 χ²/NDF: 49.1/43
Right: 3197.167+/-662.331 χ²/NDF: 26.2/34
In: 3440.344+/-499.925 χ²/NDF:22.6/36
Out: 1408.731+/-486.478 χ²/NDF:46.2/41
All: 2396.848+/-348.649 χ²/NDF: 77.3/78

# eigen_cor_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.467+/-0.673 $\chi^2$/NDF: 611587.4/15

Left Out: 2448.801+/-0.405 $\chi^2$/NDF:88955.6/22

Right Out: 2449.647+/-0.652 $\chi^2$/NDF: 436846.6/18

Left In: 2438.096+/-0.415 $\chi^2$/NDF:58747.7/20

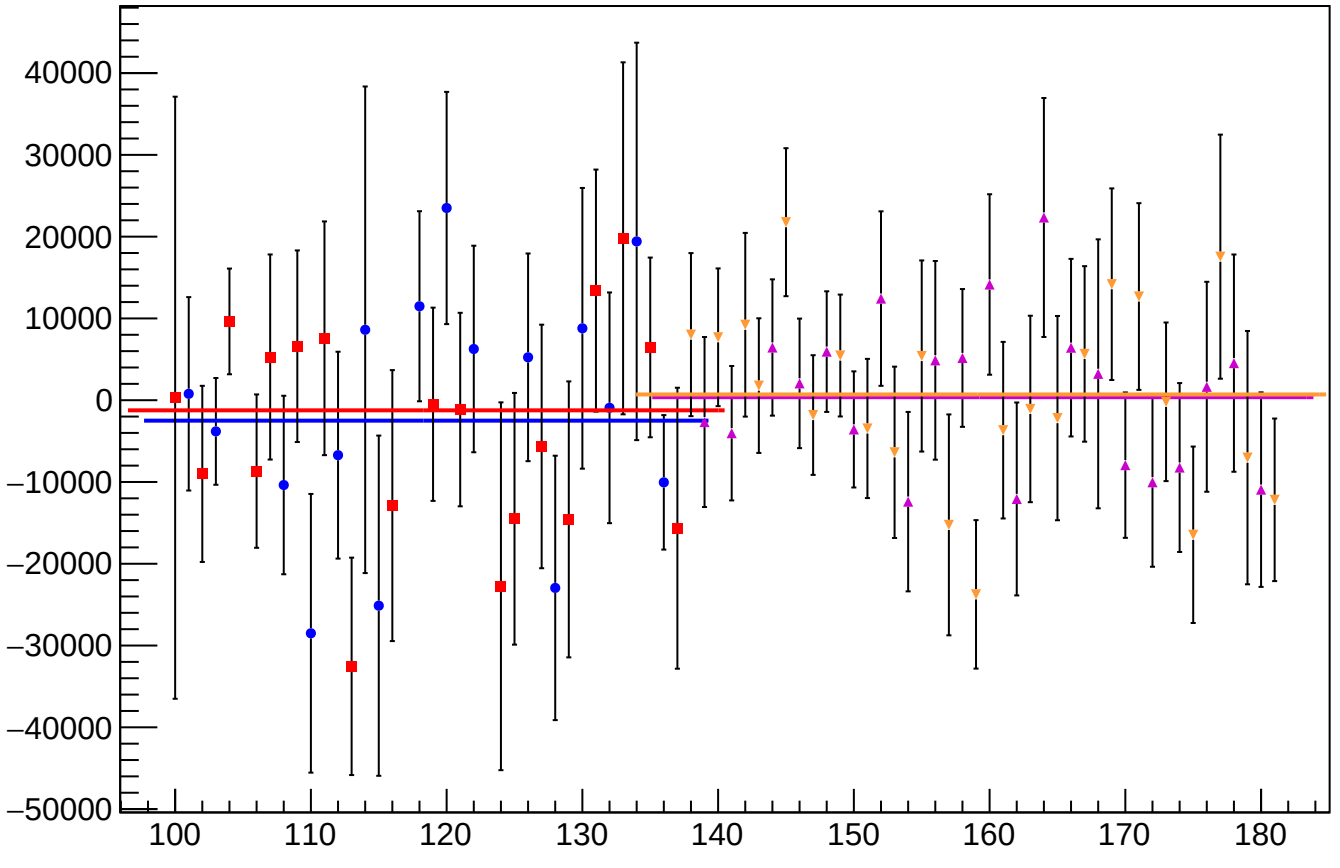
Left: 2443.585+/-0.290 $\chi^2$/NDF: 148043.9/43

Right: 2478.121+/-0.468 $\chi^2$/NDF: 1052373.5/34

In: 2457.504+/-0.354 $\chi^2$/NDF:678250.3/36

Out: 2449.037+/-0.344 $\chi^2$/NDF:525803.4/41

All: 2453.155+/-0.247 $\chi^2$/NDF: 1204348.4/78




Right In: -2500.380+/-3075.668 $\chi^2$/NDF: 13.8/15

Left Out: 701.968+/-2094.616 $\chi^2$/NDF:25.9/22

Right Out: -1239.896+/-2893.464 $\chi^2$/NDF: 16.6/18

Left In: 370.277+/-2166.586 $\chi^2$/NDF:13.8/20

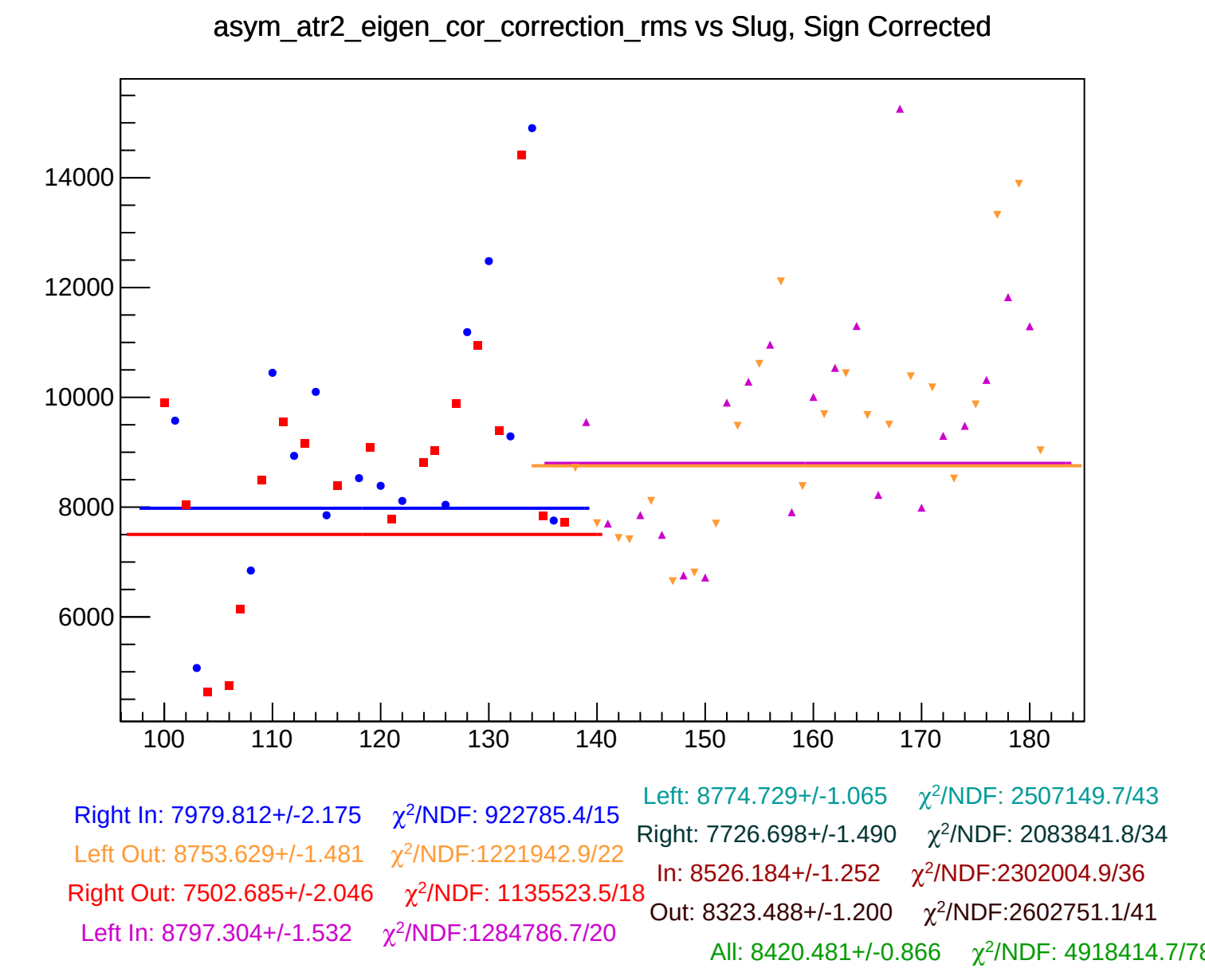
Left: 541.723+/-1505.918 $\chi^2$/NDF: 39.7/43

Right: -1831.698+/-2107.459 $\chi^2$/NDF: 30.5/34

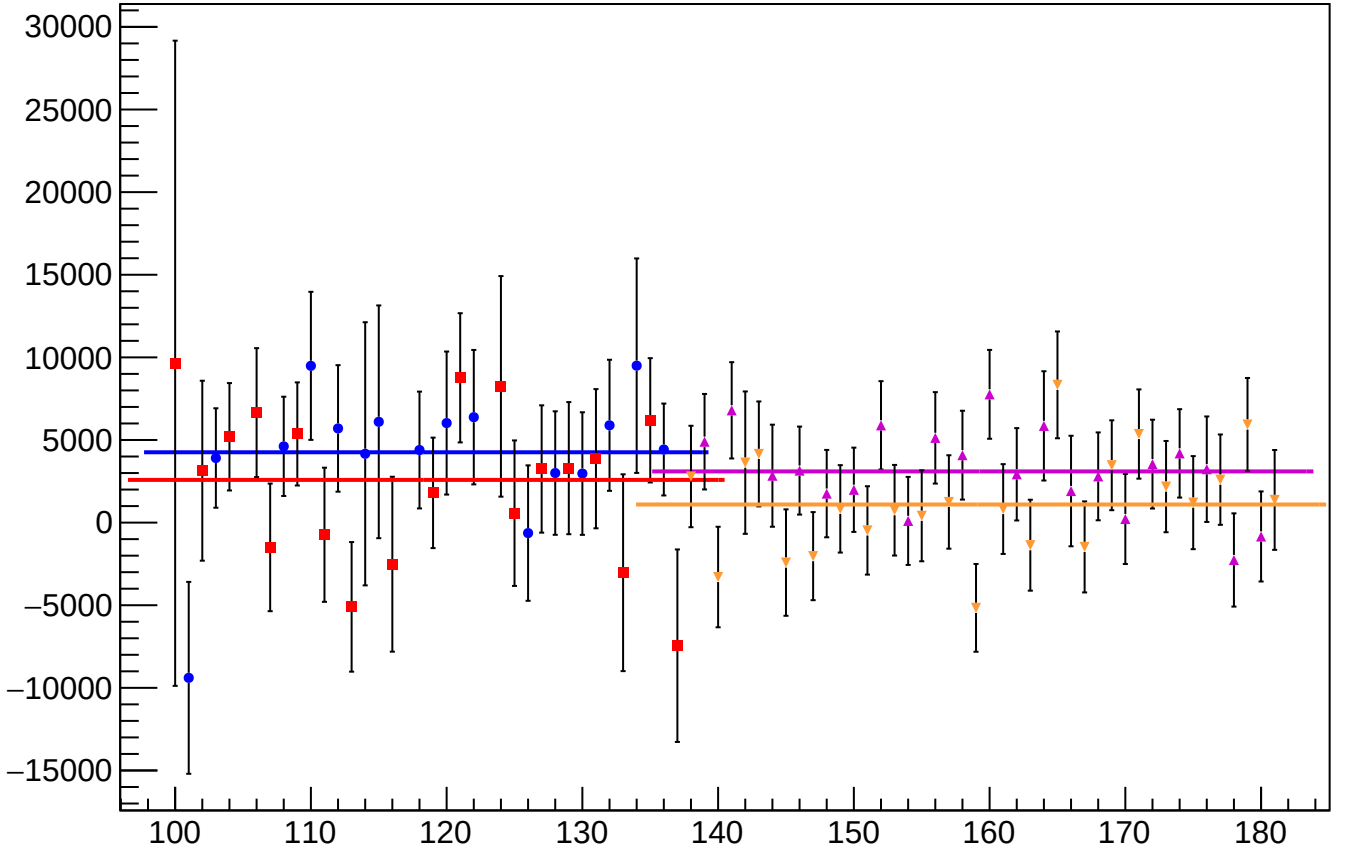
In: -581.772+/-1771.244 $\chi^2$/NDF:28.1/36

Out: 34.251+/-1696.699 $\chi^2$/NDF:42.8/41

All: -260.525+/-1225.253 $\chi^2$/NDF: 71.0/78


asym_atr2_eigen_cor_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
110
120
130
140
150
160
170
180
Right In: 7979.812+/-2.175 χ²/NDF: 922785.4/15
Left Out: 8753.629+/-1.481 χ²/NDF:1221942.9/22
Right Out: 7502.685+/-2.046 χ²/NDF: 1135523.5/18
Left In: 8797.304+/-1.532 χ²/NDF:1284786.7/20
Left: 8774.729+/-1.065 χ²/NDF: 2507149.7/43
Right: 7726.698+/-1.490 χ²/NDF: 2083841.8/34
In: 8526.184+/-1.252 χ²/NDF:2302004.9/36
Out: 8323.488+/-1.200 χ²/NDF:2602751.1/41
All: 8420.481+/-0.866 χ²/NDF: 4918414.7/78

# dit_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4256.977+/-990.542 $\chi^2$/NDF: 10.1/15

Left Out: 1096.709+/-596.276 $\chi^2$/NDF:25.6/22

Right Out: 2584.689+/-966.049 $\chi^2$/NDF: 17.6/18

Left In: 3098.488+/-609.745 $\chi^2$/NDF:16.3/20

Left: 2075.245+/-426.313 $\chi^2$/NDF: 47.4/43

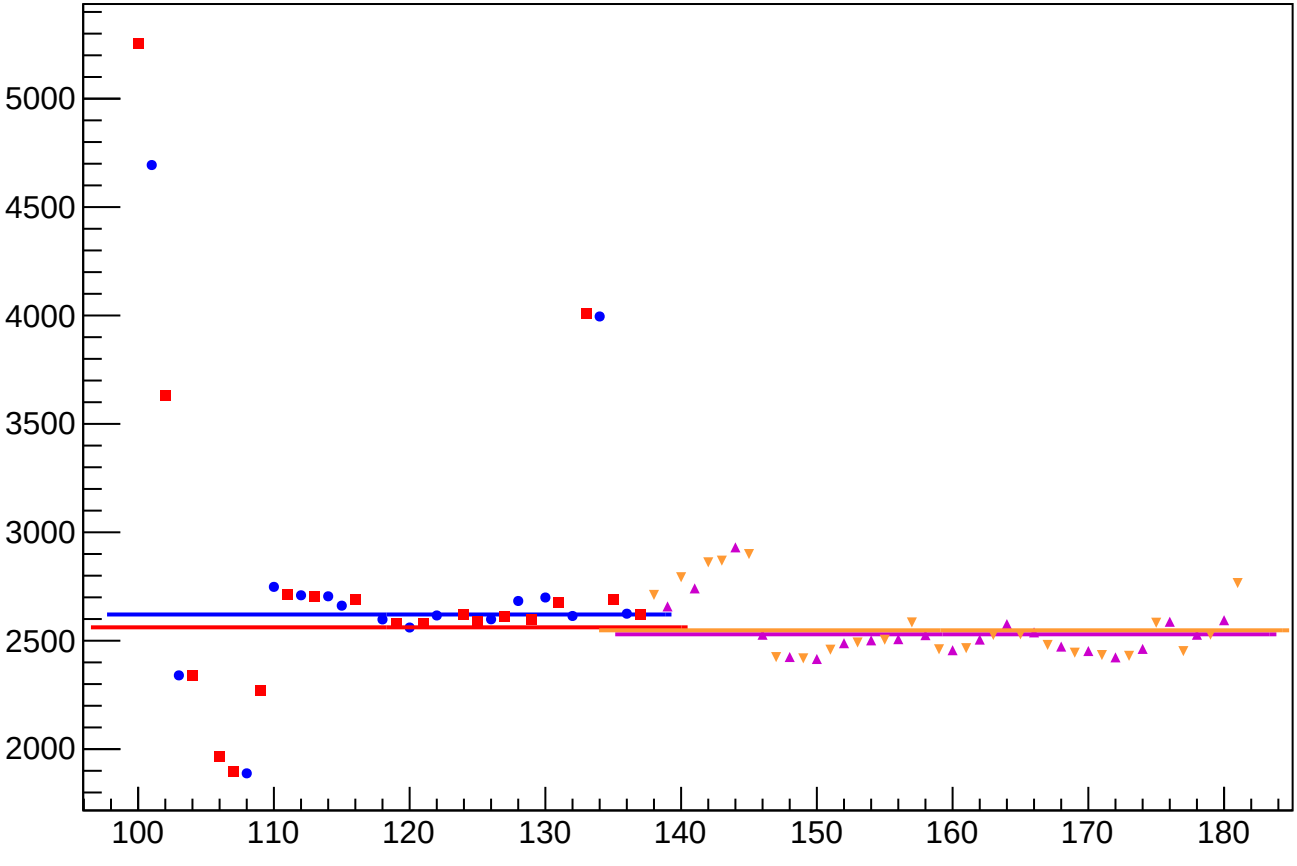
Right: 3399.902+/-691.597 $\chi^2$/NDF: 29.1/34

In: 3416.836+/-519.252 $\chi^2$/NDF:27.4/36

Out: 1507.204+/-507.405 $\chi^2$/NDF:44.9/41

All: 2439.986+/-362.905 $\chi^2$/NDF: 79.2/78

# dit_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2620.964+/-0.700 $\chi^2$/NDF: 485914.1/15

Left Out: 2548.006+/-0.422 $\chi^2$/NDF:115257.0/22

Right Out: 2561.718+/-0.683 $\chi^2$/NDF: 378259.5/18

Left In: 2529.616+/-0.431 $\chi^2$/NDF:66950.5/20

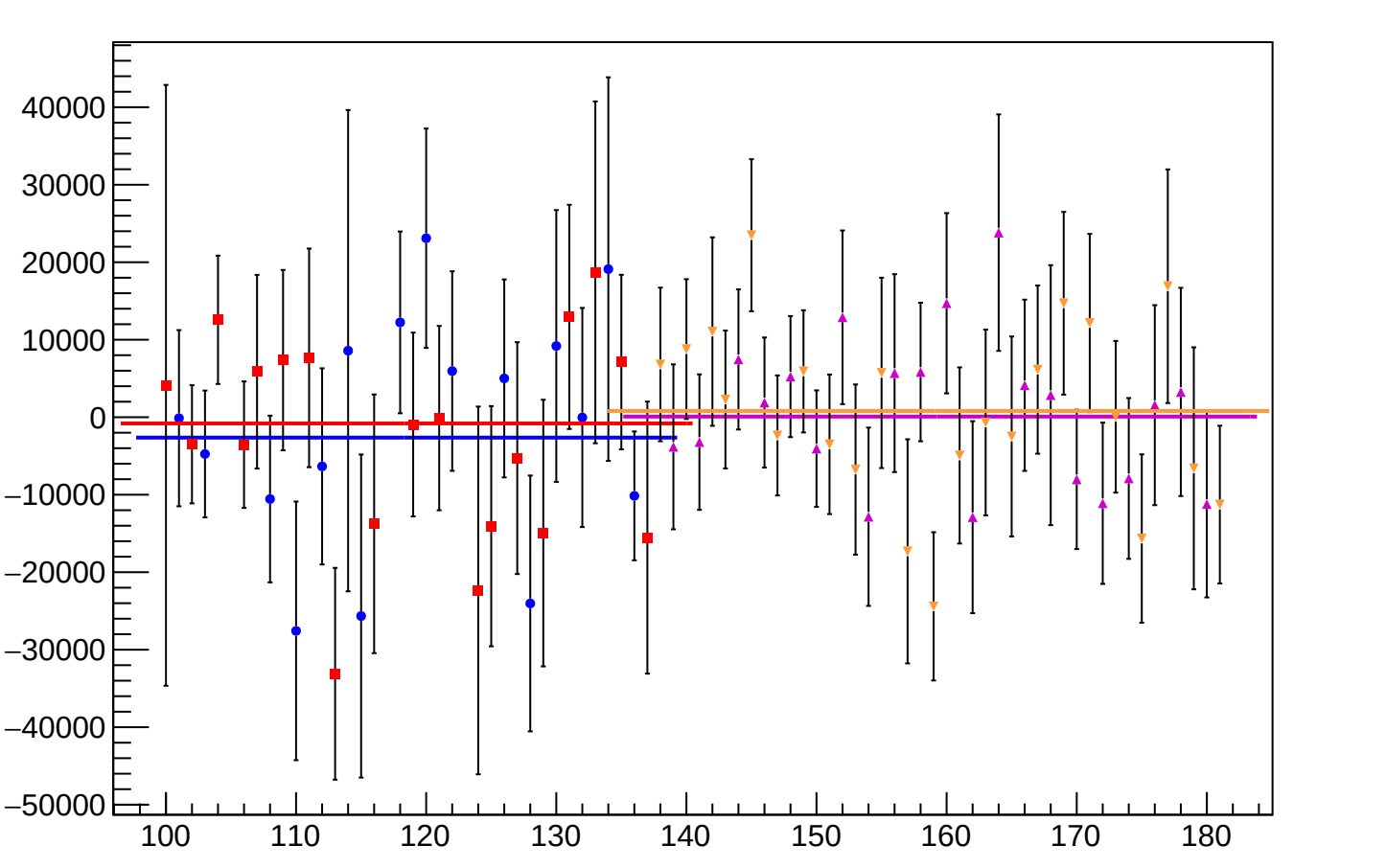
Left: 2539.016+/-0.301 $\chi^2$/NDF: 183137.4/43

Right: 2590.582+/-0.489 $\chi^2$/NDF: 867842.6/34

In: 2554.718+/-0.367 $\chi^2$/NDF:565199.6/36

Out: 2551.792+/-0.359 $\chi^2$/NDF:493808.6/41

All: 2553.221+/-0.257 $\chi^2$/NDF: 1059040.6/78




Right In: -2631.921+/-3211.506 $\chi^2$/NDF: 13.8/15

Left Out: 807.844+/-2187.249 $\chi^2$/NDF:25.2/22

Right Out: -802.880+/-2872.934 $\chi^2$/NDF: 15.4/18

Left In: 81.595+/-2259.299 $\chi^2$/NDF:13.7/20

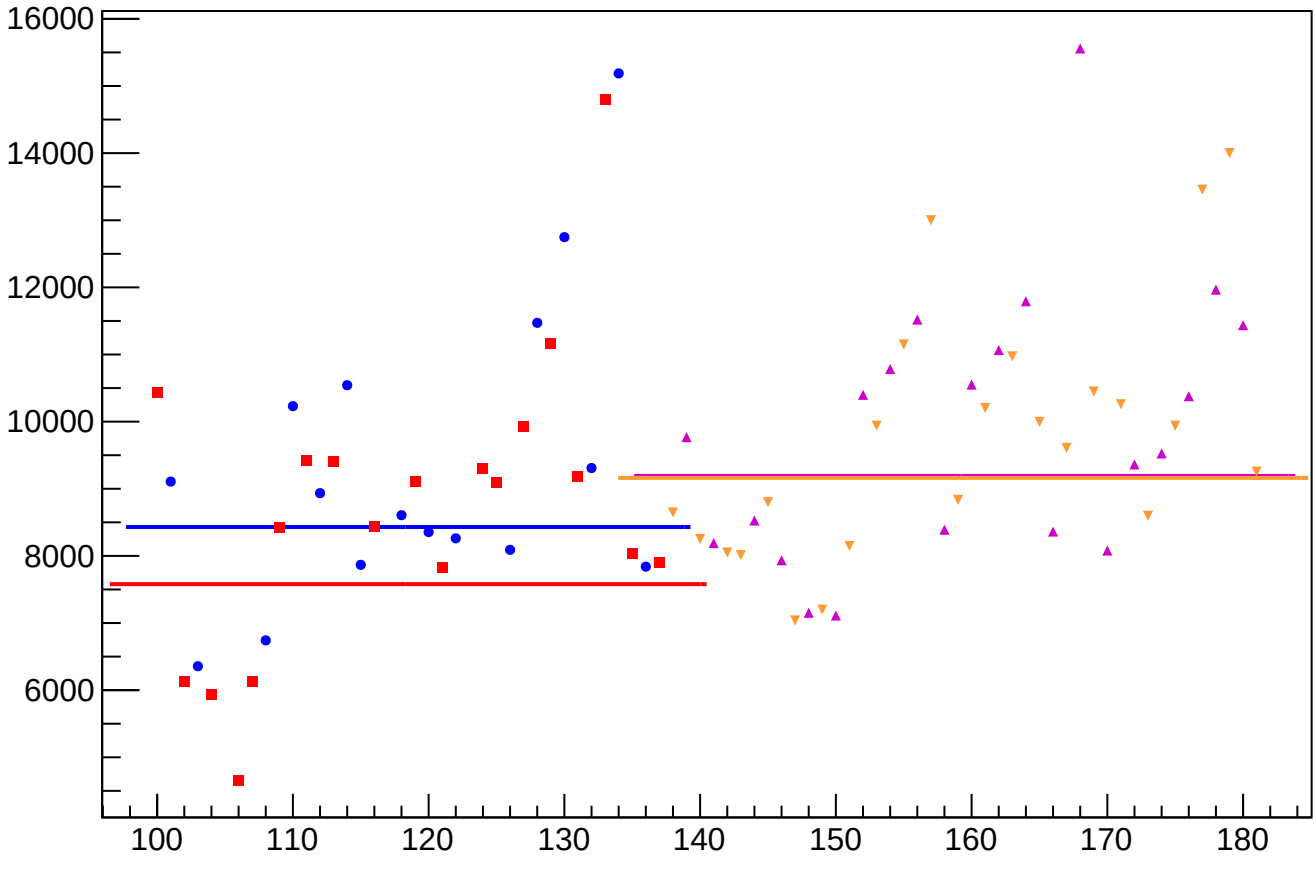
Left: 456.485+/-1571.473 $\chi^2$/NDF: 38.9/43

Right: -1615.936+/-2141.201 $\chi^2$/NDF: 29.4/34

In: -816.756+/-1847.845 $\chi^2$/NDF:28.0/36

Out: 216.810+/-1740.290 $\chi^2$/NDF:40.8/41

All: -269.019+/-1266.888 $\chi^2$/NDF: 68.9/78




Right In: 8430.768+/-2.271 $\chi^2$/NDF: 580295.1/15

Left Out: 9162.143+/-1.547 $\chi^2$/NDF:1071624.7/22

Right Out: 7579.112+/-2.031 $\chi^2$/NDF: 974126.9/18

Left In: 9191.333+/-1.598 $\chi^2$/NDF:1157052.2/20

Left: 9176.265+/-1.111 $\chi^2$/NDF: 2228849.2/43

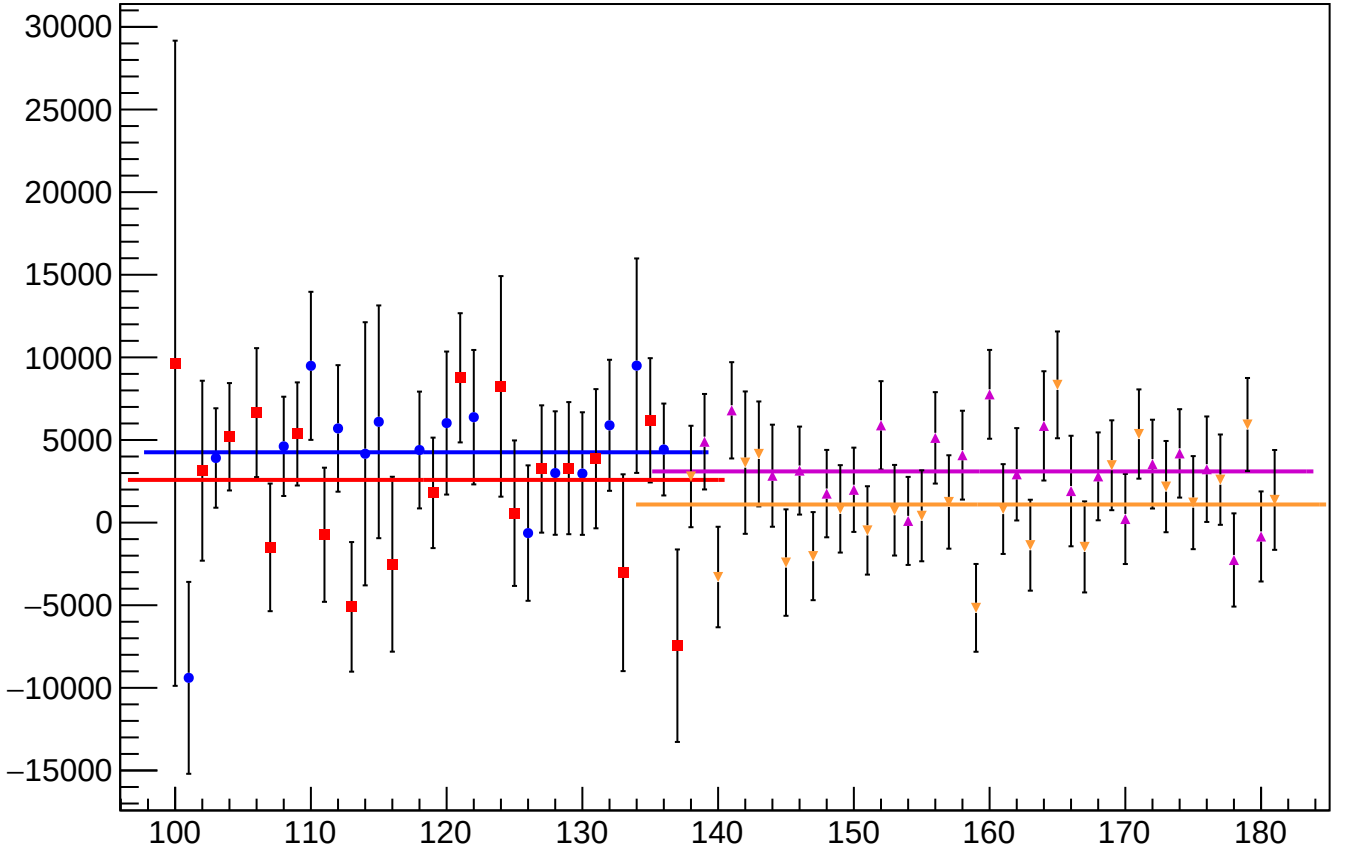
Right: 7957.695+/-1.514 $\chi^2$/NDF: 1632549.6/34

In: 8939.537+/-1.307 $\chi^2$/NDF:1812383.3/36

Out: 8581.270+/-1.231 $\chi^2$/NDF:2430169.8/41

All: 8749.674+/-0.896 $\chi^2$/NDF: 4282395.5/78

# eigen_dit_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4256.984+/-990.541 $\chi^2$/NDF: 10.1/15

Left Out: 1096.698+/-596.276 $\chi^2$/NDF:25.6/22

Right Out: 2584.699+/-966.048 $\chi^2$/NDF: 17.6/18

Left In: 3098.488+/-609.746 $\chi^2$/NDF:16.3/20

Left: 2075.239+/-426.313 $\chi^2$/NDF: 47.4/43

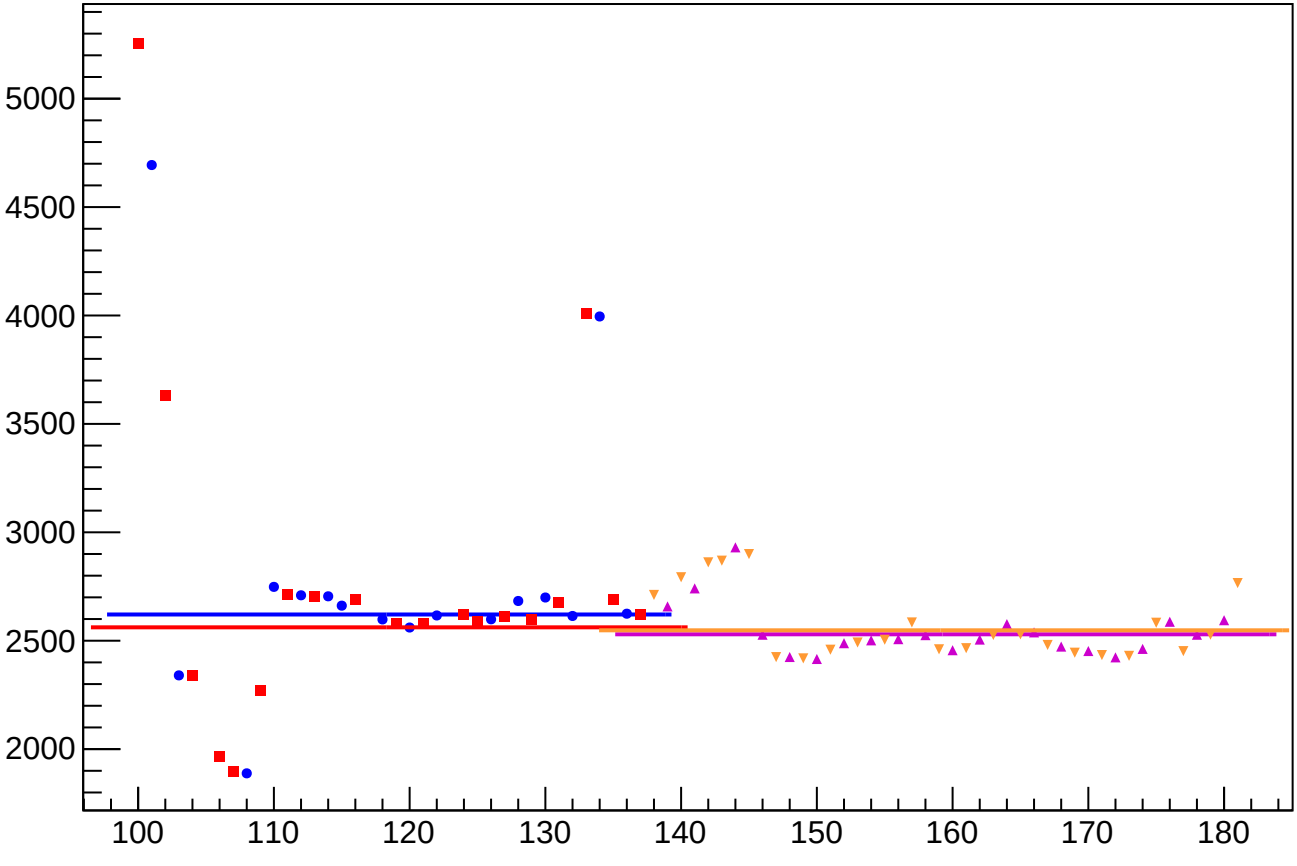
Right: 3399.911+/-691.596 $\chi^2$/NDF: 29.1/34

In: 3416.839+/-519.252 $\chi^2$/NDF:27.4/36

Out: 1507.200+/-507.405 $\chi^2$/NDF:44.9/41

All: 2439.985+/-362.906 $\chi^2$/NDF: 79.2/78

# eigen_dit_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2620.963+/-0.700 $\chi^2$/NDF: 485914.3/15

Left Out: 2548.007+/-0.422 $\chi^2$/NDF:115257.0/22

Right Out: 2561.718+/-0.683 $\chi^2$/NDF: 378258.9/18

Left In: 2529.618+/-0.431 $\chi^2$/NDF:66950.3/20

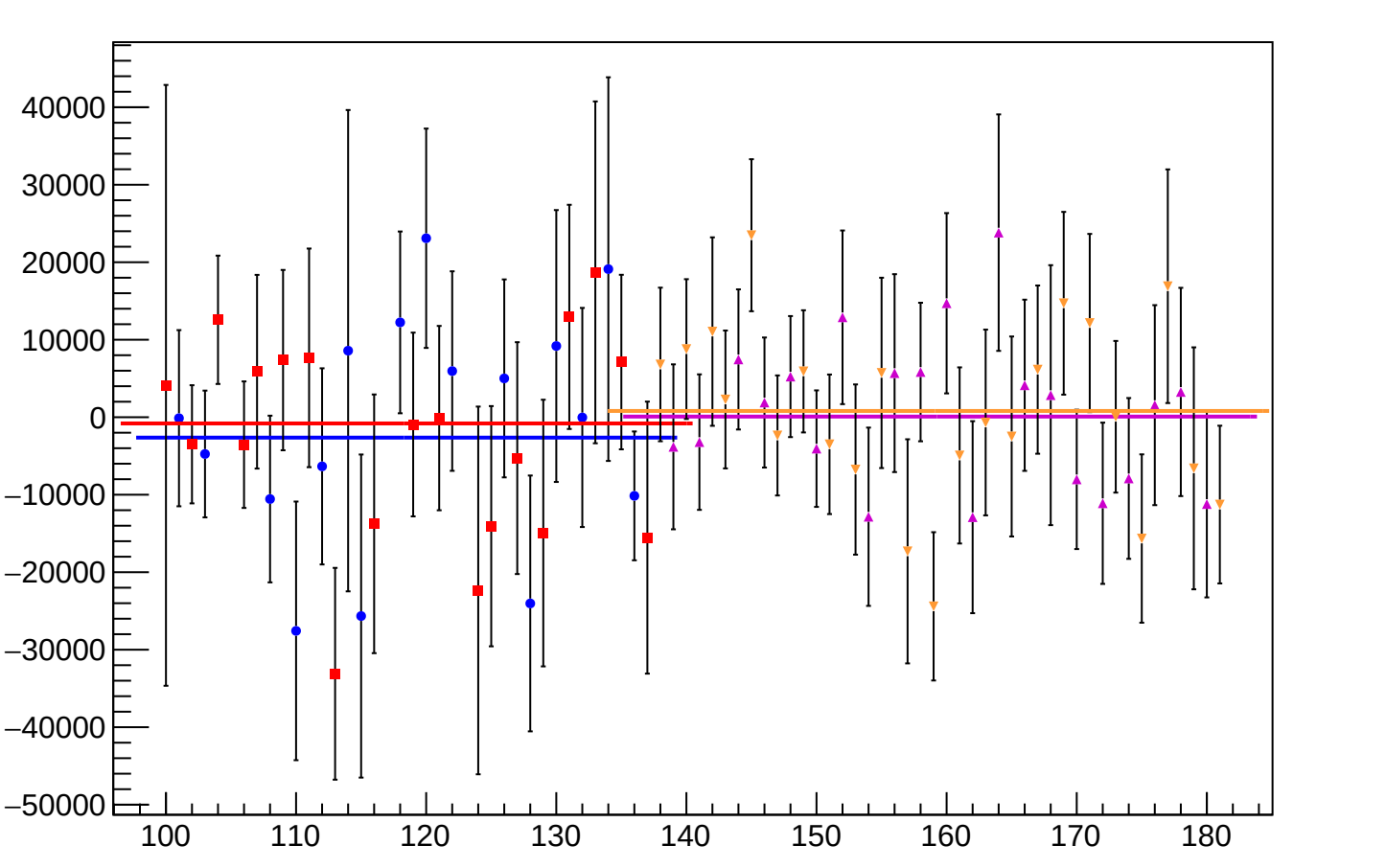
Left: 2539.018+/-0.301 $\chi^2$/NDF: 183137.2/43

Right: 2590.582+/-0.489 $\chi^2$/NDF: 867842.2/34

In: 2554.719+/-0.367 $\chi^2$/NDF:565198.8/36

Out: 2551.793+/-0.359 $\chi^2$/NDF:493807.9/41

All: 2553.222+/-0.257 $\chi^2$/NDF: 1059039.3/78




Right In: -2631.887+/-3211.501 $\chi^2$/NDF: 13.8/15

Left Out: 807.841+/-2187.253 $\chi^2$/NDF:25.2/22

Right Out: -802.875+/-2872.930 $\chi^2$/NDF: 15.4/18

Left In: 81.593+/-2259.303 $\chi^2$/NDF:13.7/20

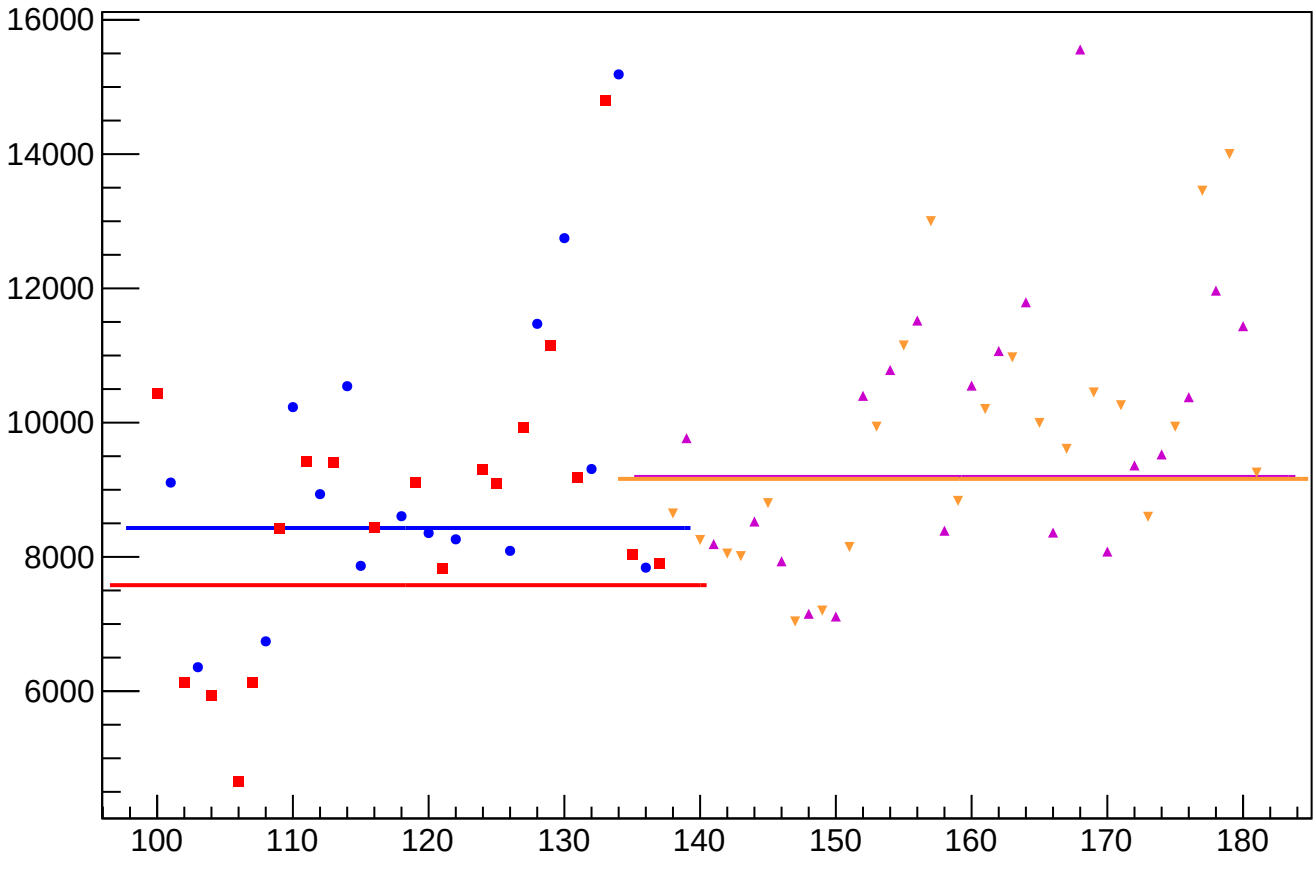
Left: 456.481+/-1571.476 $\chi^2$/NDF: 38.9/43

Right: -1615.919+/-2141.198 $\chi^2$/NDF: 29.4/34

In: -816.750+/-1847.846 $\chi^2$/NDF:28.0/36

Out: 216.806+/-1740.291 $\chi^2$/NDF:40.8/41

All: -269.018+/-1266.889 $\chi^2$/NDF: 68.9/78




Right In: 8430.758+/-2.271 $\chi^2$/NDF: 580289.4/15

Left Out: 9162.157+/-1.547 $\chi^2$/NDF:1071626.6/22

Right Out: 7579.100+/-2.031 $\chi^2$/NDF: 974123.2/18

Left In: 9191.348+/-1.598 $\chi^2$/NDF:1157055.8/20

Left: 9176.280+/-1.111 $\chi^2$/NDF: 2228854.7/43

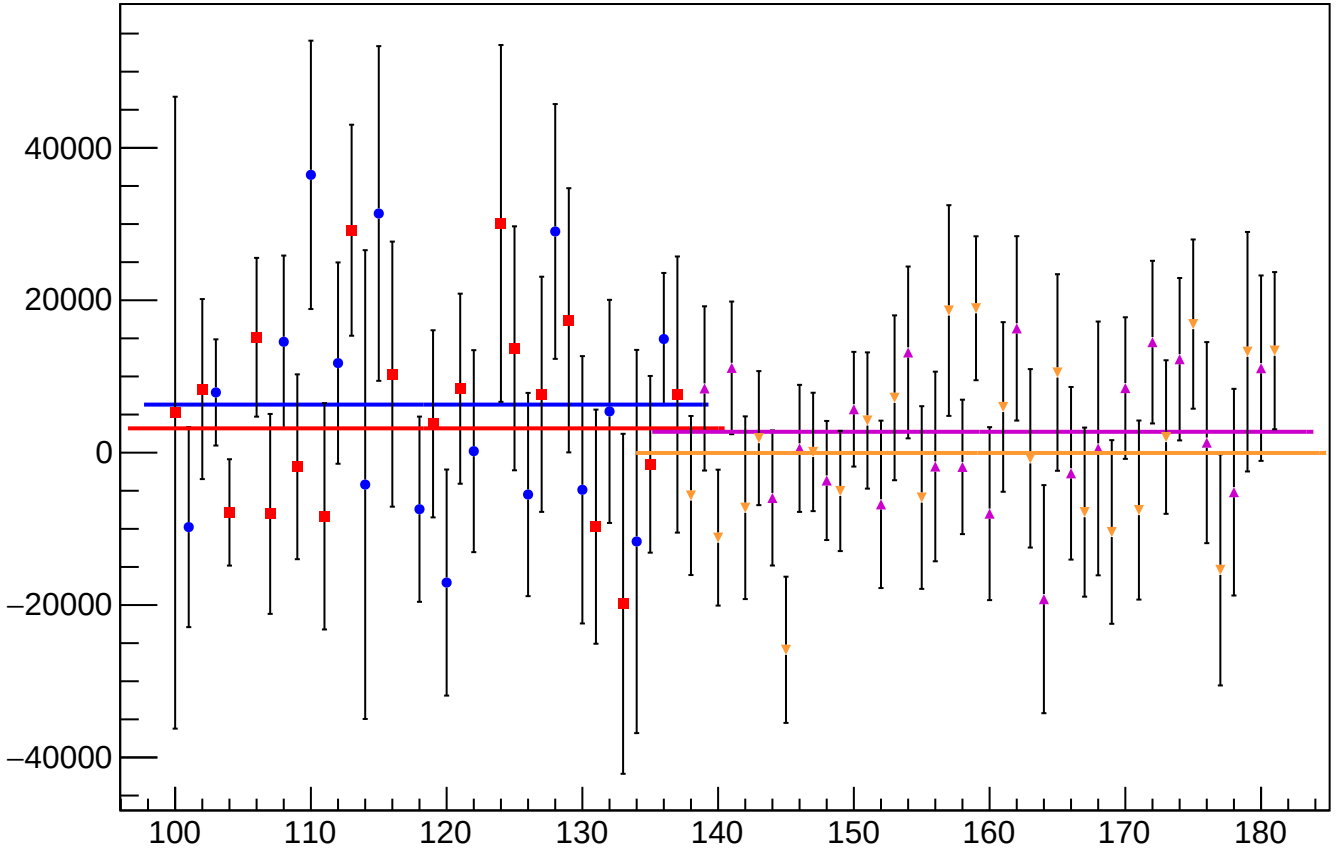
Right: 7957.685+/-1.514 $\chi^2$/NDF: 1632540.7/34

In: 8939.542+/-1.307 $\chi^2$/NDF:1812386.0/36

Out: 8581.272+/-1.231 $\chi^2$/NDF:2430181.2/41

All: 8749.678+/-0.896 $\chi^2$/NDF: 4282410.2/78

# asym_atr2_mean vs Slug, Sign Corrected




Right In: 6307.034+/-3239.703 $\chi^2$/NDF: 15.1/15

Left Out: -39.996+/-2187.571 $\chi^2$/NDF:25.1/22

Right Out: 3189.356+/-3068.645 $\chi^2$/NDF: 13.9/18

Left In: 2736.860+/-2258.961 $\chi^2$/NDF:12.8/20

Left: 1303.860+/-1571.479 $\chi^2$/NDF: 38.7/43

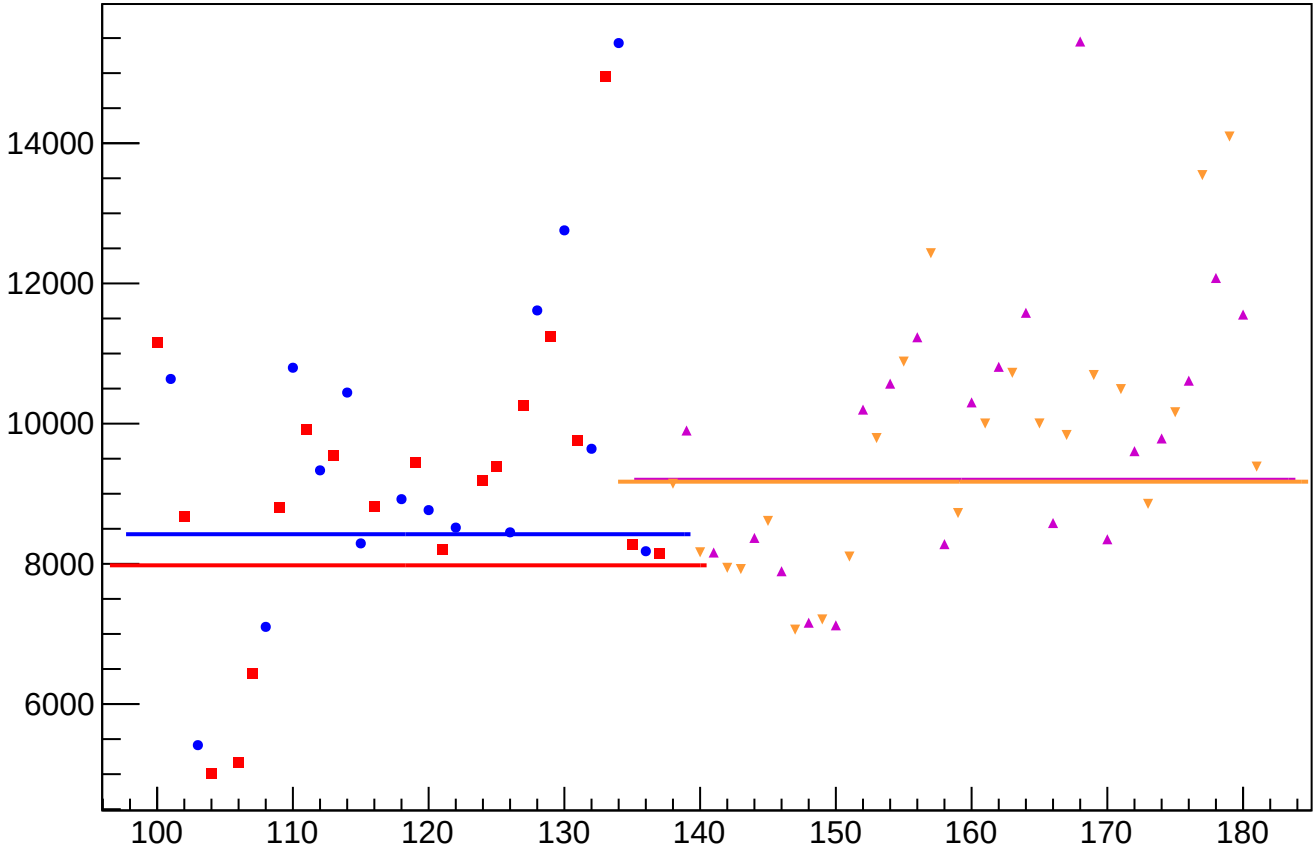
Right: 4663.718+/-2227.879 $\chi^2$/NDF: 29.5/34

In: 3904.804+/-1852.983 $\chi^2$/NDF:28.8/36

Out: 1048.154+/-1781.284 $\chi^2$/NDF:39.7/41

All: 2420.143+/-1284.158 $\chi^2$/NDF: 69.7/78

# asym_atr2_rms vs Slug, Sign Corrected




Right In: 8422.717+/-2.291 $\chi^2$/NDF: 881833.9/15

Left Out: 9172.161+/-1.547 $\chi^2$/NDF:1056932.0/22

Right Out: 7978.997+/-2.170 $\chi^2$/NDF: 1016019.0/18

Left In: 9199.479+/-1.597 $\chi^2$/NDF:1119575.0/20

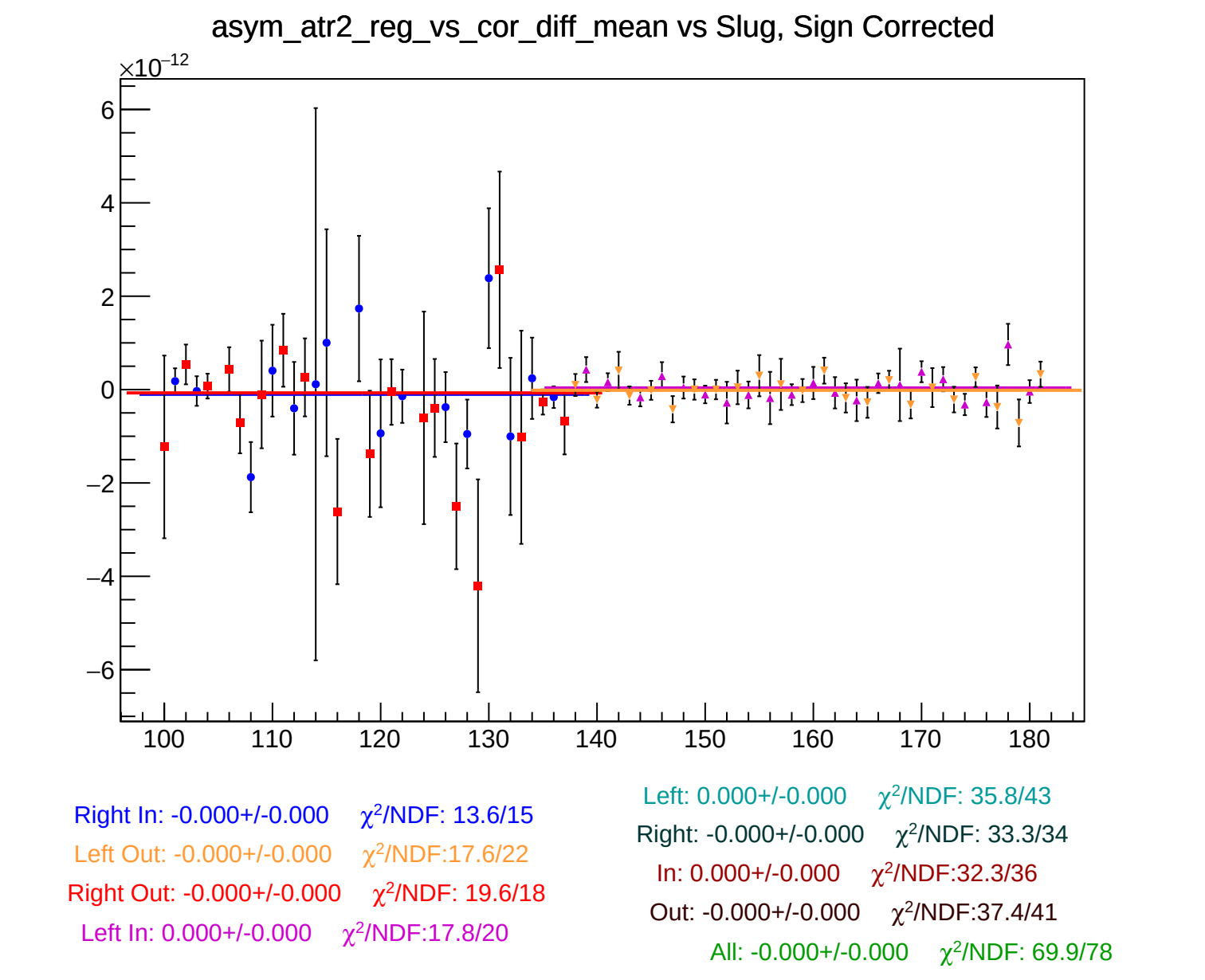
Left: 9185.381+/-1.111 $\chi^2$/NDF: 2176658.0/43

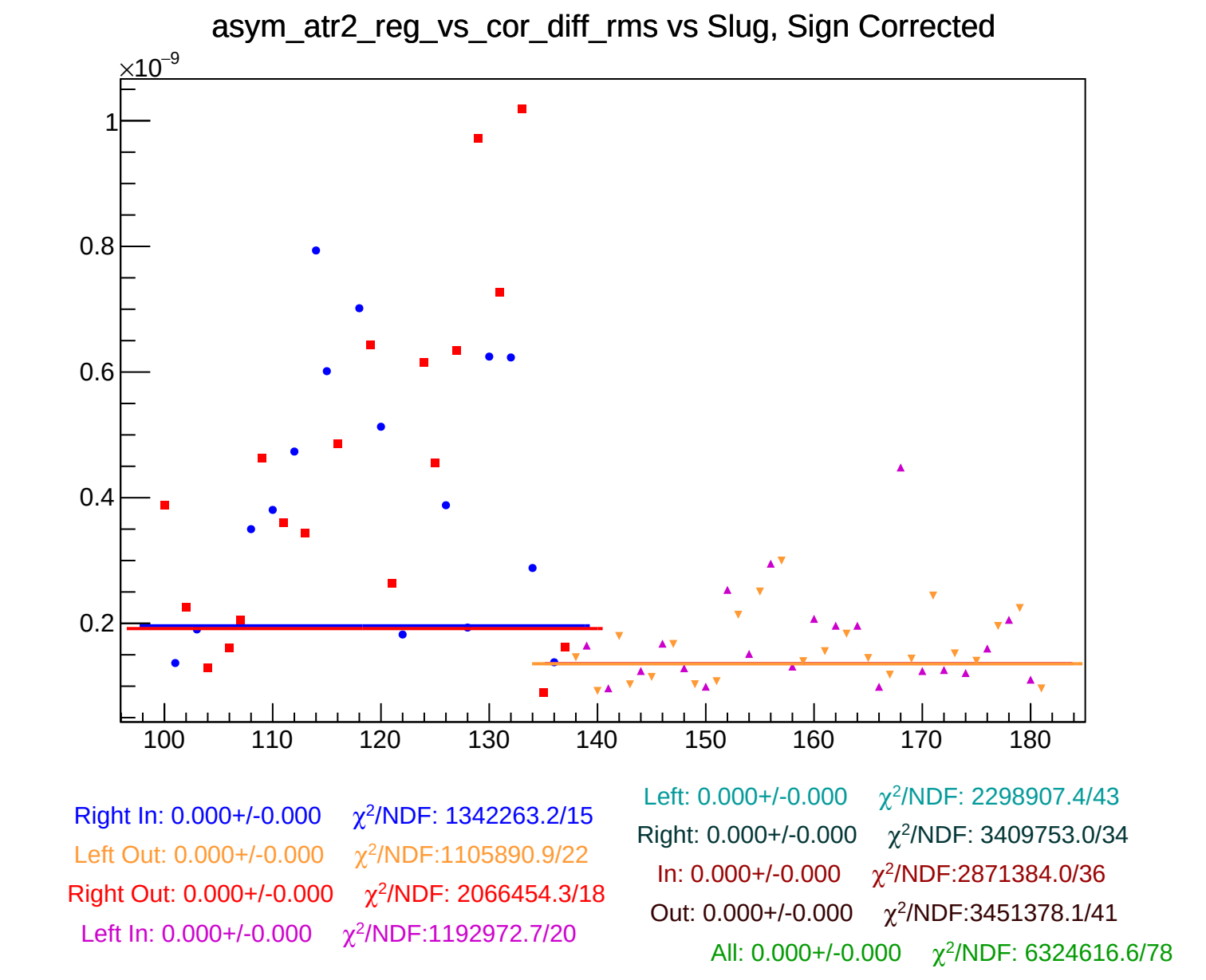
Right: 8188.830+/-1.575 $\chi^2$/NDF: 1917628.8/34

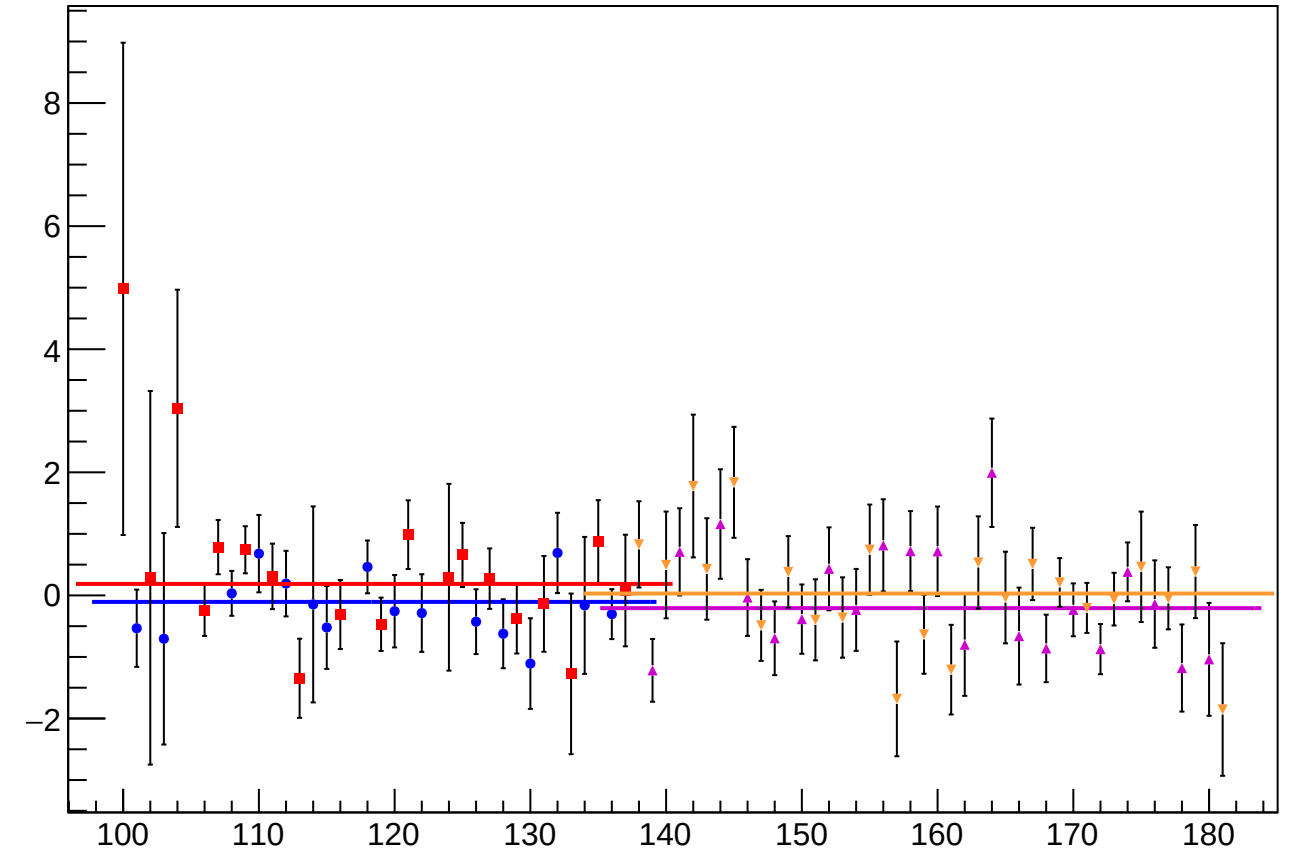
In: 8945.370+/-1.310 $\chi^2$/NDF:2078769.6/36

Out: 8770.107+/-1.260 $\chi^2$/NDF:2273439.6/41

All: 8854.282+/-0.908 $\chi^2$/NDF: 4361508.3/78


asym_atr2_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
4
2
0
−2
−4
−6
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 13.6/15
Left Out: -0.000+/-0.000 χ²/NDF:17.6/22
Right Out: -0.000+/-0.000 χ²/NDF: 19.6/18
Left In: 0.000+/-0.000 χ²/NDF:17.8/20
Left: 0.000+/-0.000 χ²/NDF: 35.8/43
Right: -0.000+/-0.000 χ²/NDF: 33.3/34
In: 0.000+/-0.000 χ²/NDF:32.3/36
Out: -0.000+/-0.000 χ²/NDF:37.4/41
All: -0.000+/-0.000 χ²/NDF: 69.9/78


asym_atr2_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1
0.8
0.6
0.4
0.2
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1342263.2/15
Left Out: 0.000+/-0.000 χ²/NDF:1105890.9/22
Right Out: 0.000+/-0.000 χ²/NDF: 2066454.3/18
Left In: 0.000+/-0.000 χ²/NDF:1192972.7/20
Left: 0.000+/-0.000 χ²/NDF: 2298907.4/43
Right: 0.000+/-0.000 χ²/NDF: 3409753.0/34
In: 0.000+/-0.000 χ²/NDF:2871384.0/36
Out: 0.000+/-0.000 χ²/NDF:3451378.1/41
All: 0.000+/-0.000 χ²/NDF: 6324616.6/78




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.030+/-0.133 $\chi^2$/NDF:23.6/22

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.207+/-0.135 $\chi^2$/NDF:30.6/20

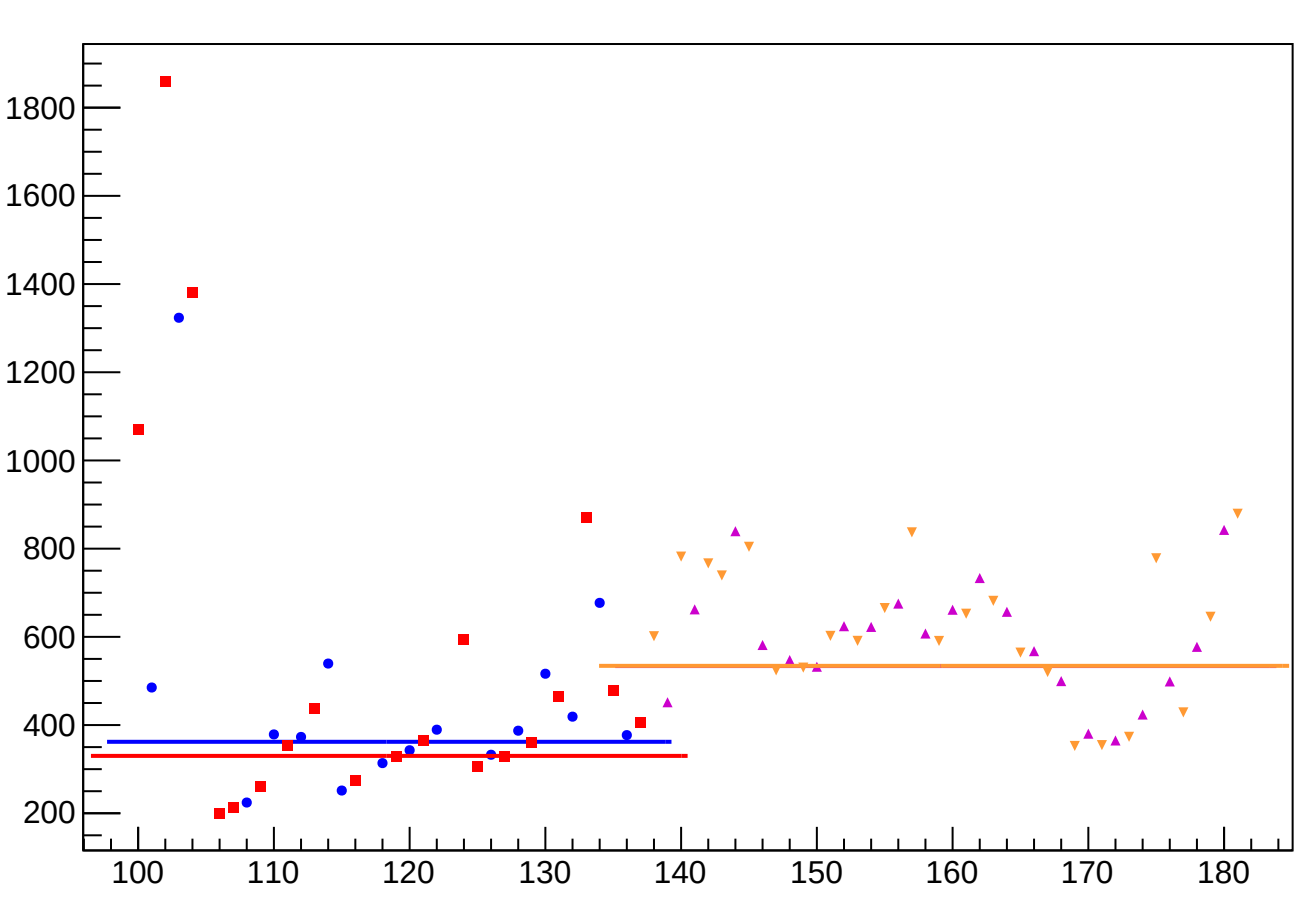
Left: -0.086+/-0.095 $\chi^2$/NDF: 55.8/43

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.160+/-0.099 $\chi^2$/NDF:40.6/36

Out: 0.106+/-0.095 $\chi^2$/NDF:48.1/41

All: -0.022+/-0.069 $\chi^2$/NDF: 92.4/78




Right In: 362.037+/-0.102 $\chi^2$/NDF: 1377330.2/15

Left Out: 534.267+/-0.094 $\chi^2$/NDF:2605896.7/22

Right Out: 330.084+/-0.097 $\chi^2$/NDF: 2246513.0/18

Left In: 533.775+/-0.096 $\chi^2$/NDF:1705142.3/20

Left: 534.026+/-0.067 $\chi^2$/NDF: 4311052.6/43

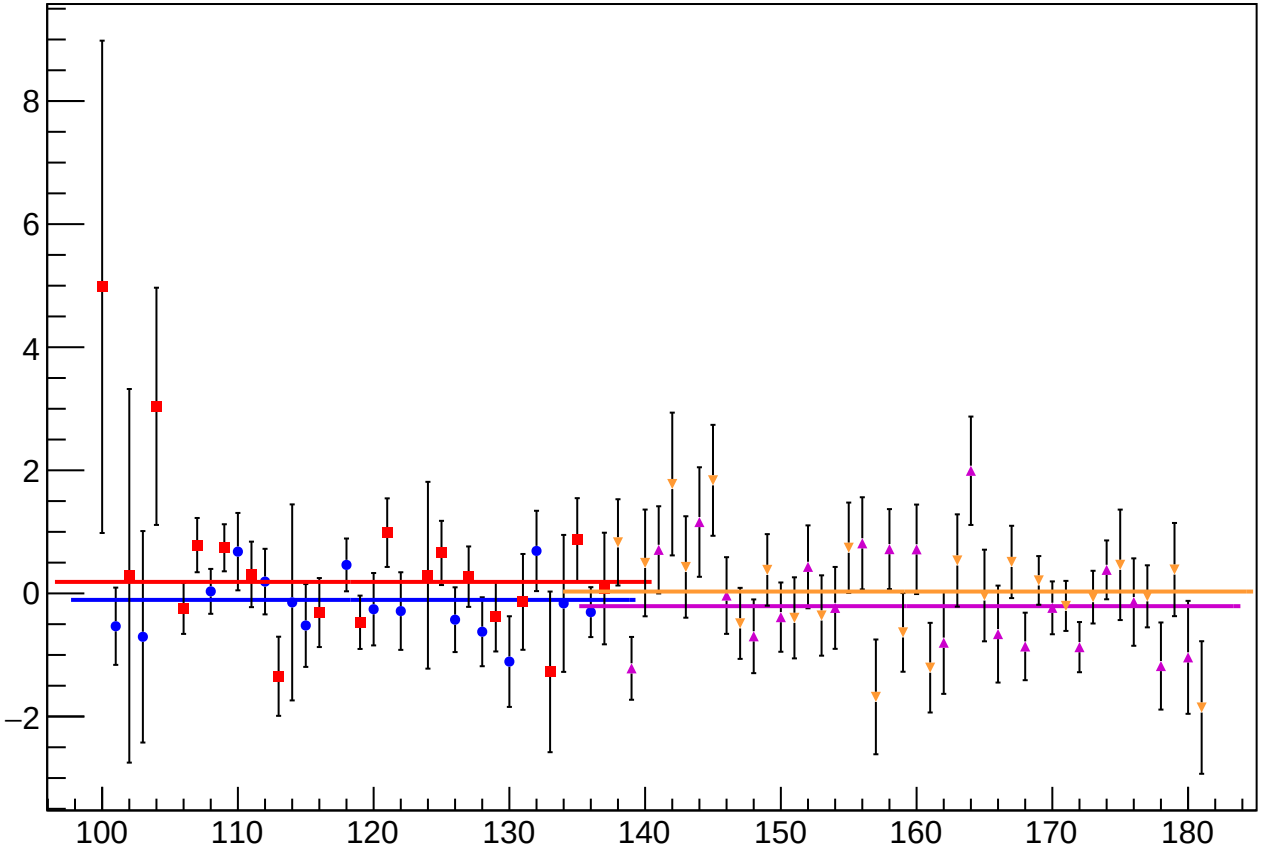
Right: 345.237+/-0.070 $\chi^2$/NDF: 3675129.8/34

In: 453.768+/-0.070 $\chi^2$/NDF:4587572.5/36

Out: 435.864+/-0.067 $\chi^2$/NDF:7140138.4/41

All: 444.506+/-0.049 $\chi^2$/NDF: 11761718.2/78

asym_atr2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.030+/-0.133 $\chi^2$/NDF:23.6/22

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.207+/-0.135 $\chi^2$/NDF:30.6/20

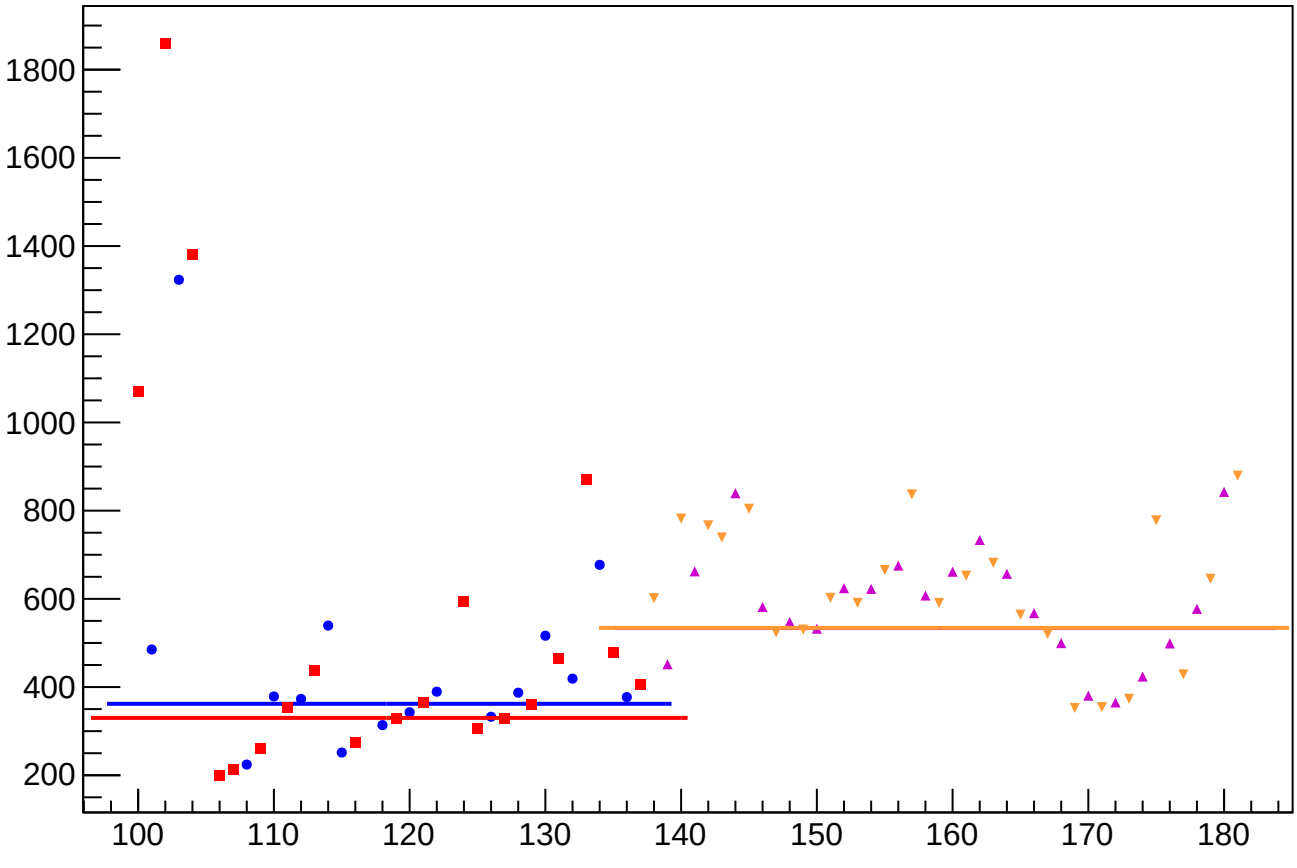
Left: -0.086+/-0.095 $\chi^2$/NDF: 55.8/43

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.160+/-0.099 $\chi^2$/NDF:40.6/36

Out: 0.106+/-0.095 $\chi^2$/NDF:48.1/41

All: -0.022+/-0.069 $\chi^2$/NDF: 92.4/78




Right In: 362.037+/-0.102 $\chi^2$/NDF: 1377330.2/15

Left Out: 534.267+/-0.094 $\chi^2$/NDF:2605896.7/22

Right Out: 330.084+/-0.097 $\chi^2$/NDF: 2246513.0/18

Left In: 533.775+/-0.096 $\chi^2$/NDF:1705142.3/20

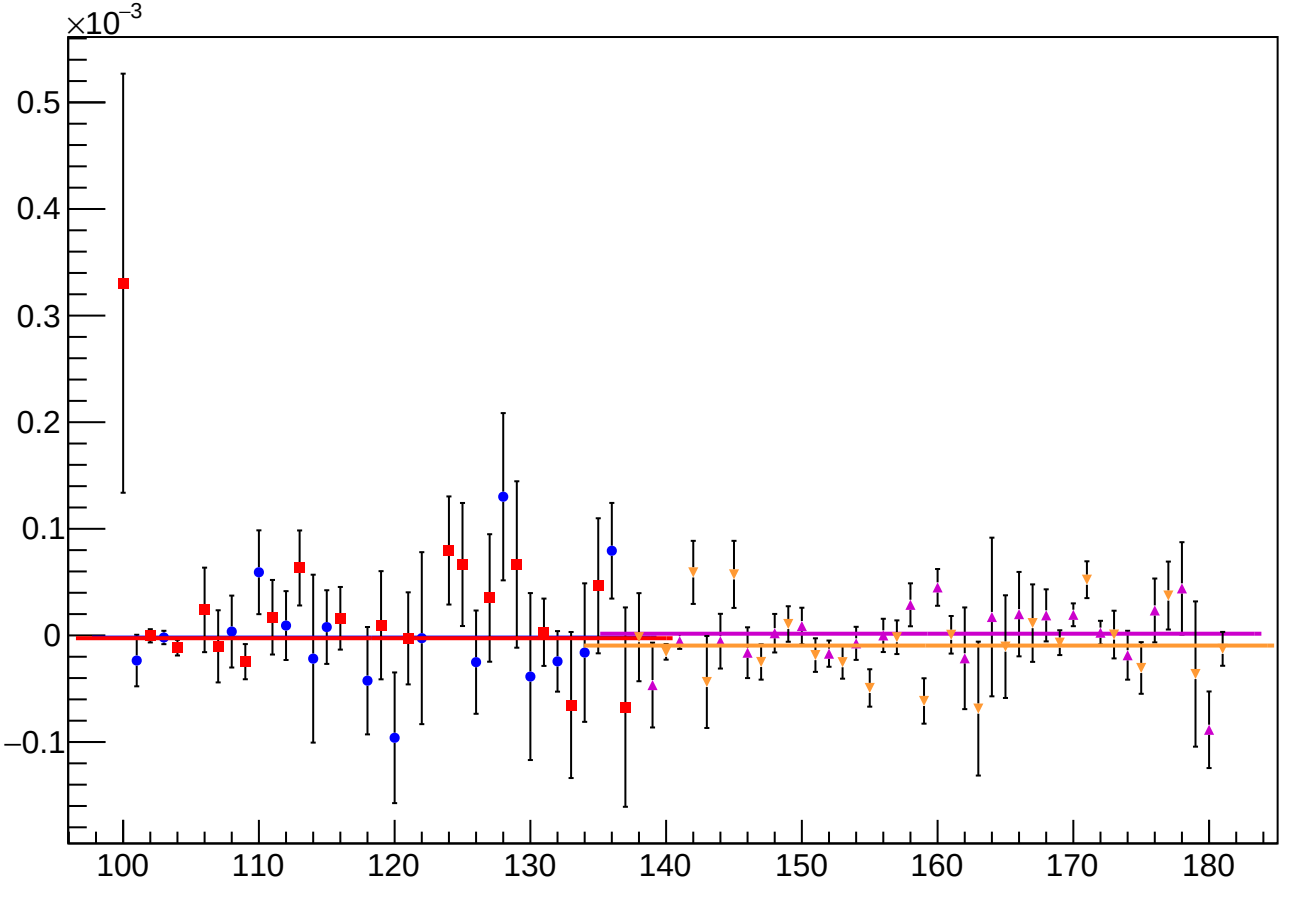
Left: 534.026+/-0.067 $\chi^2$/NDF: 4311052.6/43

Right: 345.237+/-0.070 $\chi^2$/NDF: 3675129.8/34

In: 453.768+/-0.070 $\chi^2$/NDF:4587572.5/36

Out: 435.864+/-0.067 $\chi^2$/NDF:7140138.4/41

All: 444.506+/-0.049 $\chi^2$/NDF: 11761718.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:43.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.3/20

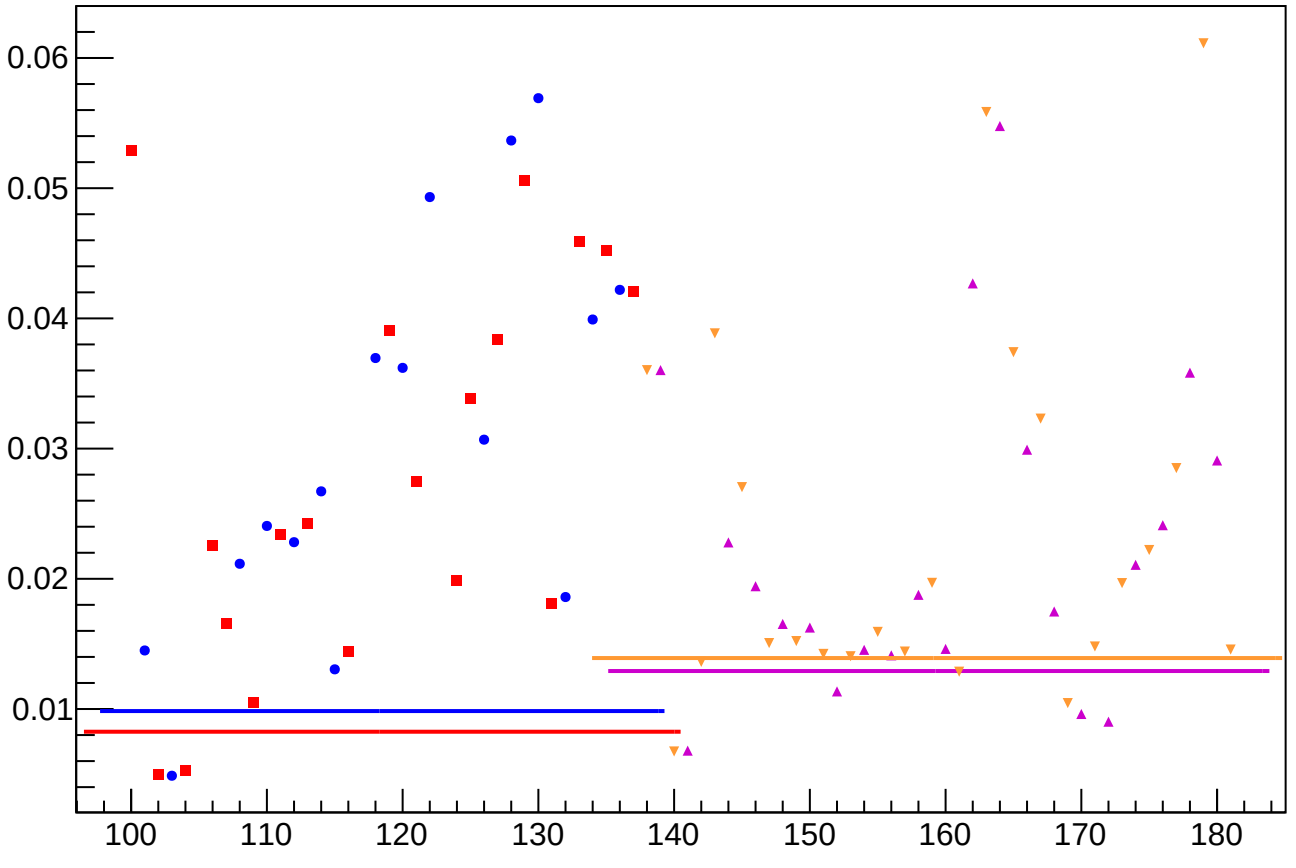
Left: -0.000+/-0.000 $\chi^2$/NDF: 74.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:40.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:63.6/41

All: -0.000+/-0.000 $\chi^2$/NDF: 106.9/78




Right In: 0.010+/-0.000 $\chi^2$/NDF: 7052383.3/15

Left Out: 0.014+/-0.000 $\chi^2$/NDF:7512596.1/22

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 6740964.7/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:6740369.4/20

Left: 0.013+/-0.000 $\chi^2$/NDF: 14325081.8/43

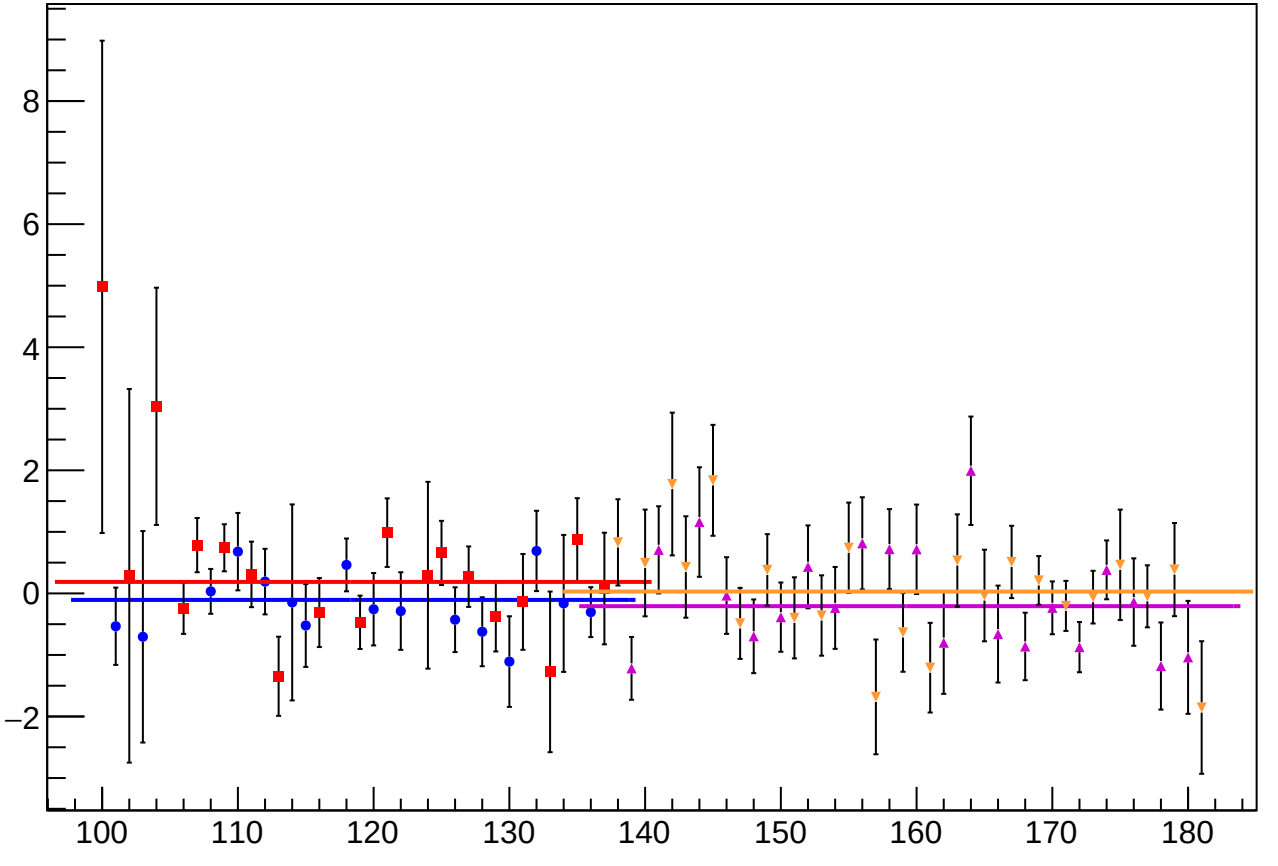
Right: 0.009+/-0.000 $\chi^2$/NDF: 13900238.9/34

In: 0.012+/-0.000 $\chi^2$/NDF:14235299.7/36

Out: 0.011+/-0.000 $\chi^2$/NDF:16257388.2/41

All: 0.012+/-0.000 $\chi^2$/NDF: 30525381.9/78

asym_atr2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.030+/-0.133 $\chi^2$/NDF:23.6/22

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.207+/-0.135 $\chi^2$/NDF:30.6/20

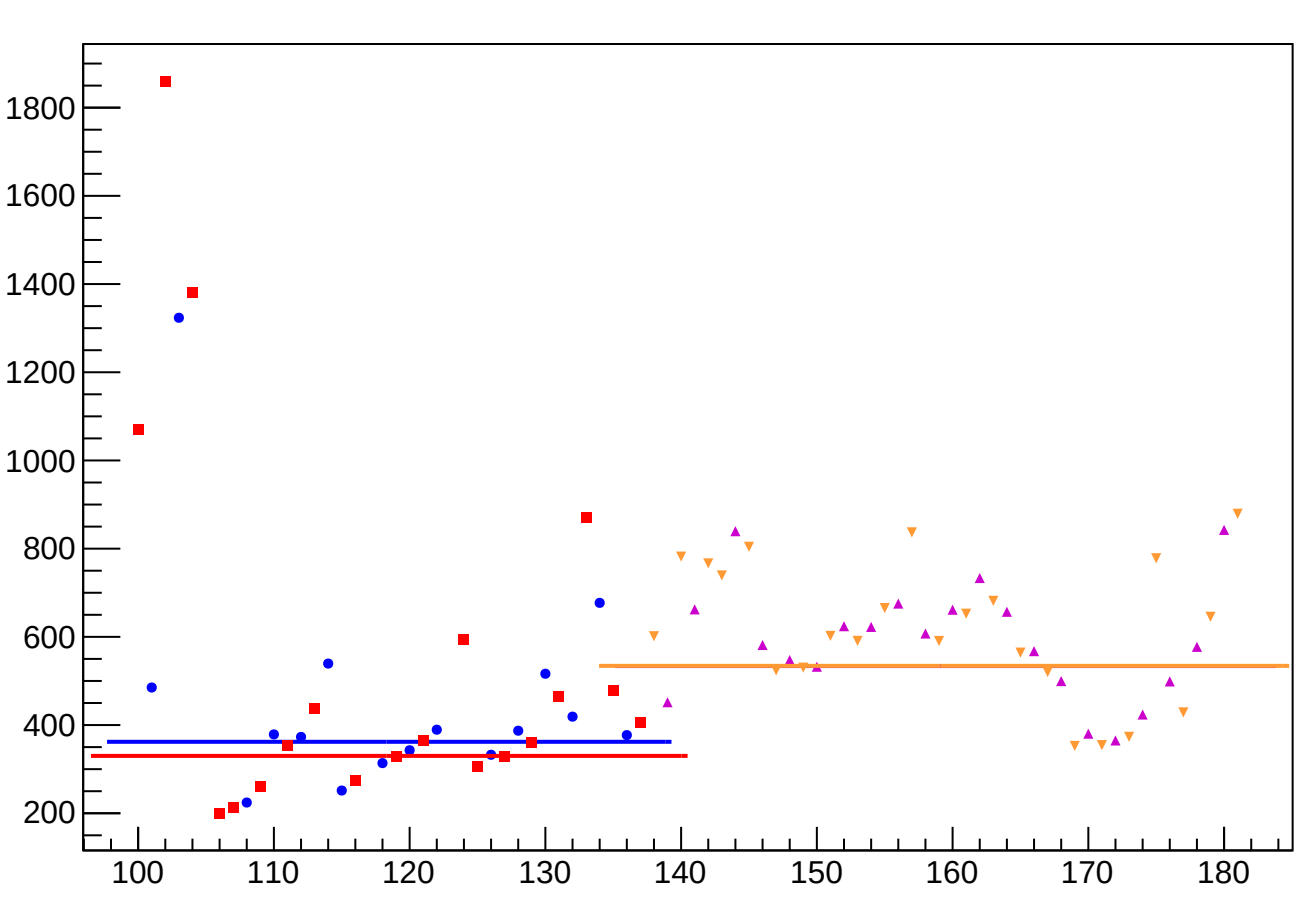
Left: -0.086+/-0.095 $\chi^2$/NDF: 55.8/43

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.160+/-0.099 $\chi^2$/NDF:40.6/36

Out: 0.106+/-0.095 $\chi^2$/NDF:48.1/41

All: -0.022+/-0.069 $\chi^2$/NDF: 92.4/78




Right In: 362.034+/-0.102 $\chi^2$/NDF: 1377333.3/15

Left Out: 534.272+/-0.094 $\chi^2$/NDF:2605987.8/22

Right Out: 330.082+/-0.097 $\chi^2$/NDF: 2246503.8/18

Left In: 533.780+/-0.096 $\chi^2$/NDF:1705189.2/20

Left: 534.031+/-0.067 $\chi^2$/NDF: 4311190.5/43

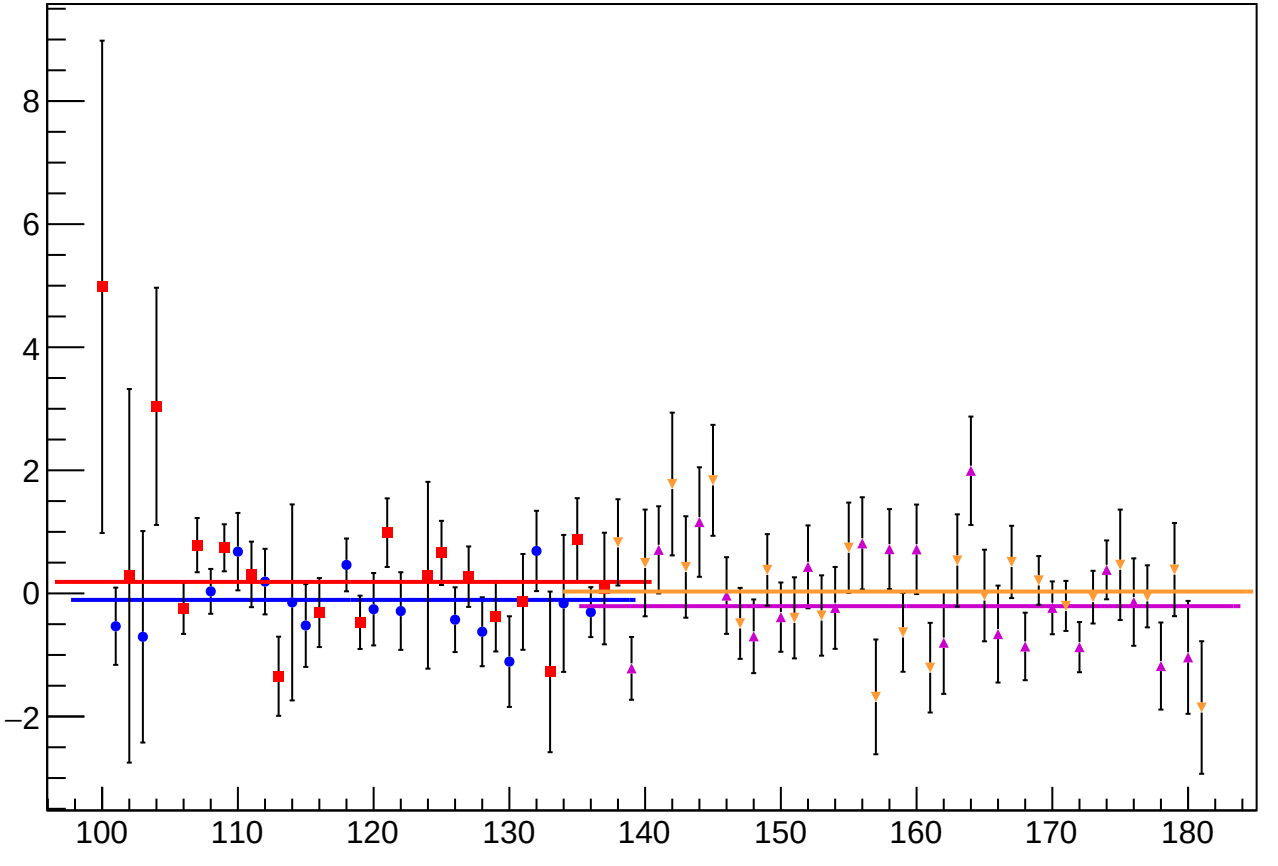
Right: 345.235+/-0.070 $\chi^2$/NDF: 3675120.0/34

In: 453.768+/-0.070 $\chi^2$/NDF:4587755.9/36

Out: 435.864+/-0.067 $\chi^2$/NDF:7140337.3/41

All: 444.506+/-0.049 $\chi^2$/NDF: 11762099.4/78

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.030+/-0.133 $\chi^2$/NDF:23.6/22

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.207+/-0.135 $\chi^2$/NDF:30.6/20

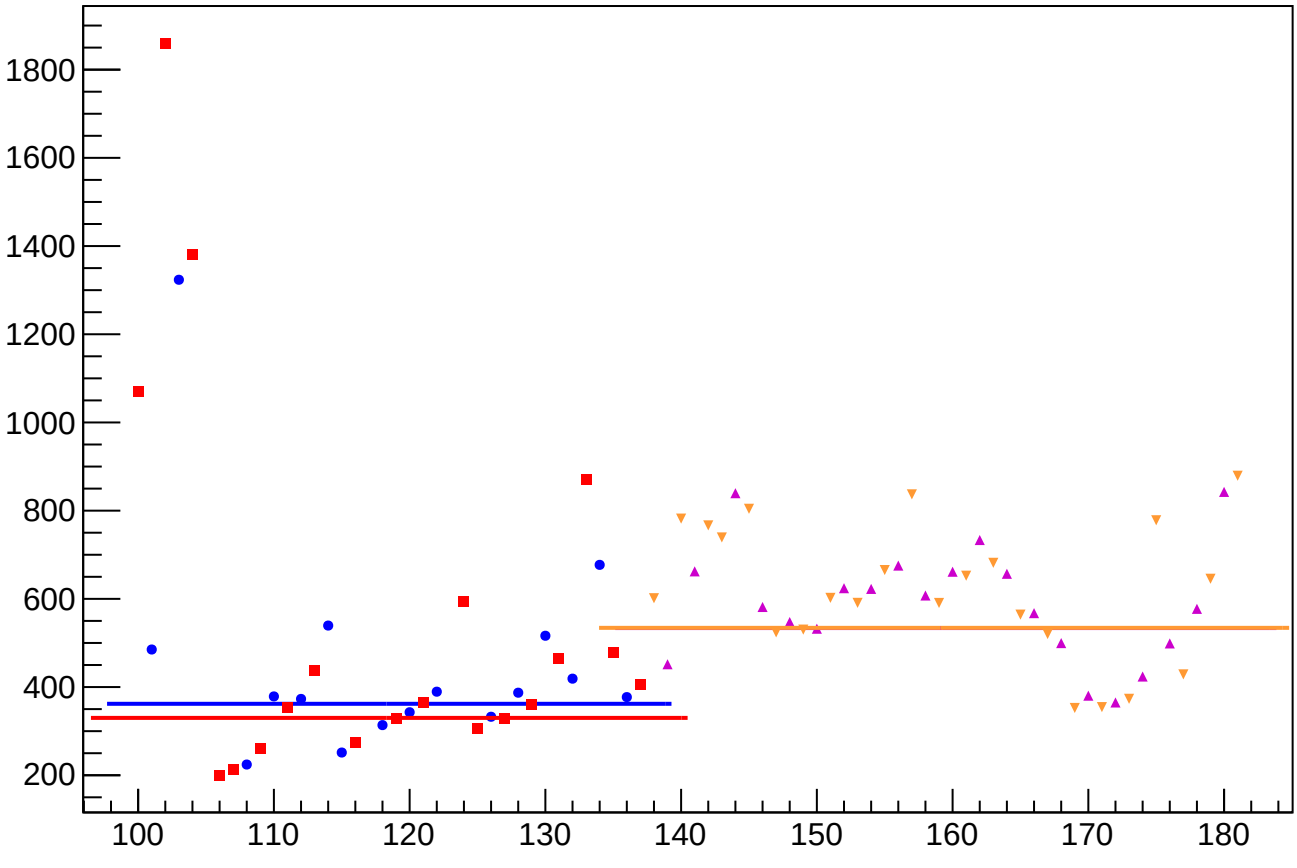
Left: -0.086+/-0.095 $\chi^2$/NDF: 55.8/43

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.160+/-0.099 $\chi^2$/NDF:40.6/36

Out: 0.106+/-0.095 $\chi^2$/NDF:48.1/41

All: -0.022+/-0.069 $\chi^2$/NDF: 92.4/78




Right In: 362.034+/-0.102 $\chi^2$/NDF: 1377333.3/15

Left Out: 534.272+/-0.094 $\chi^2$/NDF:2605987.8/22

Right Out: 330.082+/-0.097 $\chi^2$/NDF: 2246503.8/18

Left In: 533.780+/-0.096 $\chi^2$/NDF:1705189.2/20

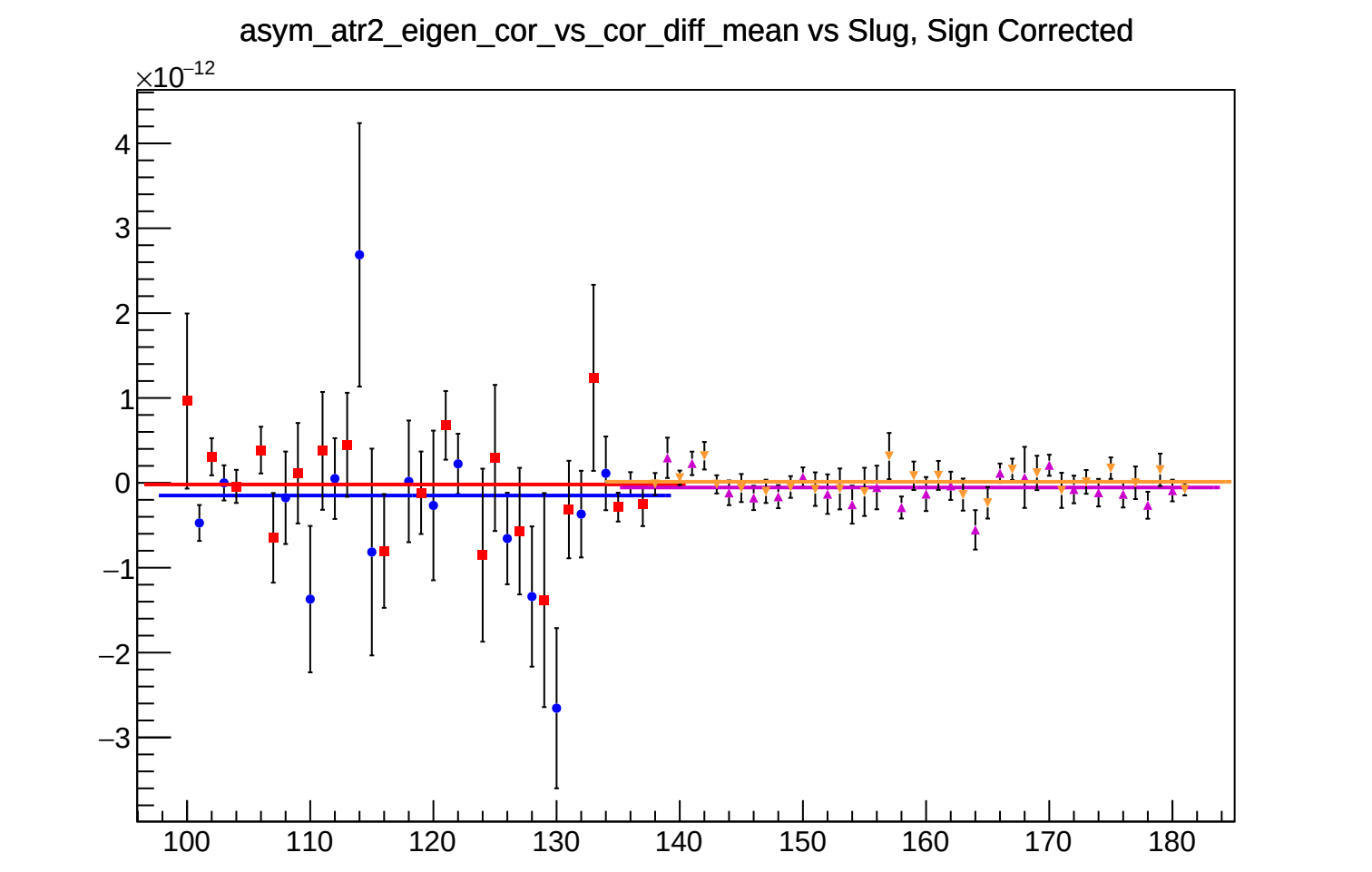
Left: 534.031+/-0.067 $\chi^2$/NDF: 4311190.5/43

Right: 345.235+/-0.070 $\chi^2$/NDF: 3675120.0/34

In: 453.768+/-0.070 $\chi^2$/NDF:4587755.9/36

Out: 435.864+/-0.067 $\chi^2$/NDF:7140337.3/41

All: 444.506+/-0.049 $\chi^2$/NDF: 11762099.4/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.1/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.1/20

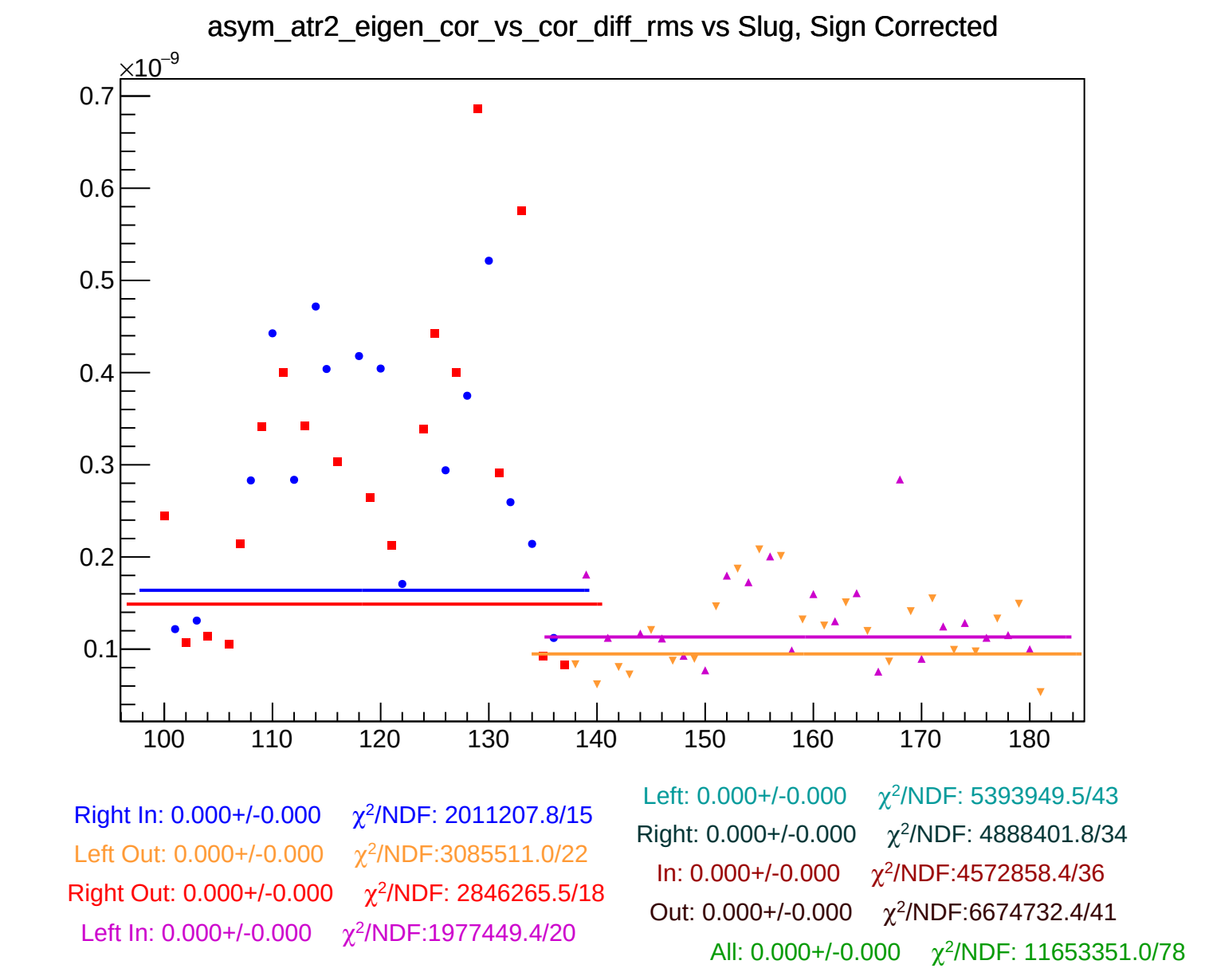
Left: -0.000+/-0.000 $\chi^2$/NDF: 44.5/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.9/34

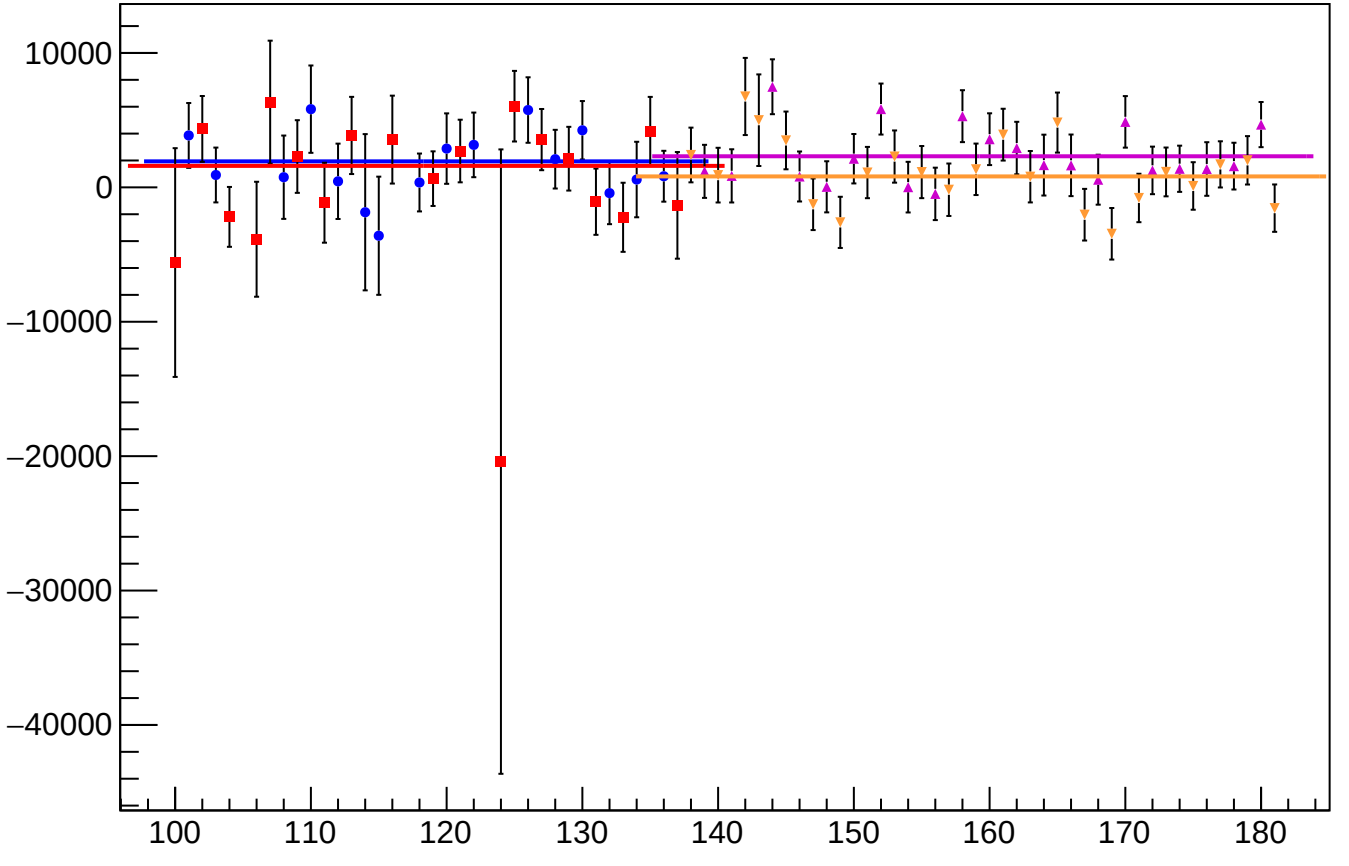
In: -0.000+/-0.000 $\chi^2$/NDF:49.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:34.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 87.4/78


asym_atr2_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−9
0.7
0.6
0.5
0.4
0.3
0.2
0.1
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2011207.8/15
Left Out: 0.000+/-0.000 χ²/NDF:3085511.0/22
Right Out: 0.000+/-0.000 χ²/NDF: 2846265.5/18
Left In: 0.000+/-0.000 χ²/NDF:1977449.4/20
Left: 0.000+/-0.000 χ²/NDF: 5393949.5/43
Right: 0.000+/-0.000 χ²/NDF: 4888401.8/34
In: 0.000+/-0.000 χ²/NDF:4572858.4/36
Out: 0.000+/-0.000 χ²/NDF:6674732.4/41
All: 0.000+/-0.000 χ²/NDF: 11653351.0/78

# reg_asym_atl_avg_mean vs Slug, Sign Corrected




Right In: 1934.755+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 813.801+/-408.883 $\chi^2$/NDF:29.8/22

Right Out: 1597.959+/-642.207 $\chi^2$/NDF: 19.4/18

Left In: 2312.580+/-416.078 $\chi^2$/NDF:25.1/20

Left: 1550.119+/-291.634 $\chi^2$/NDF: 61.5/43

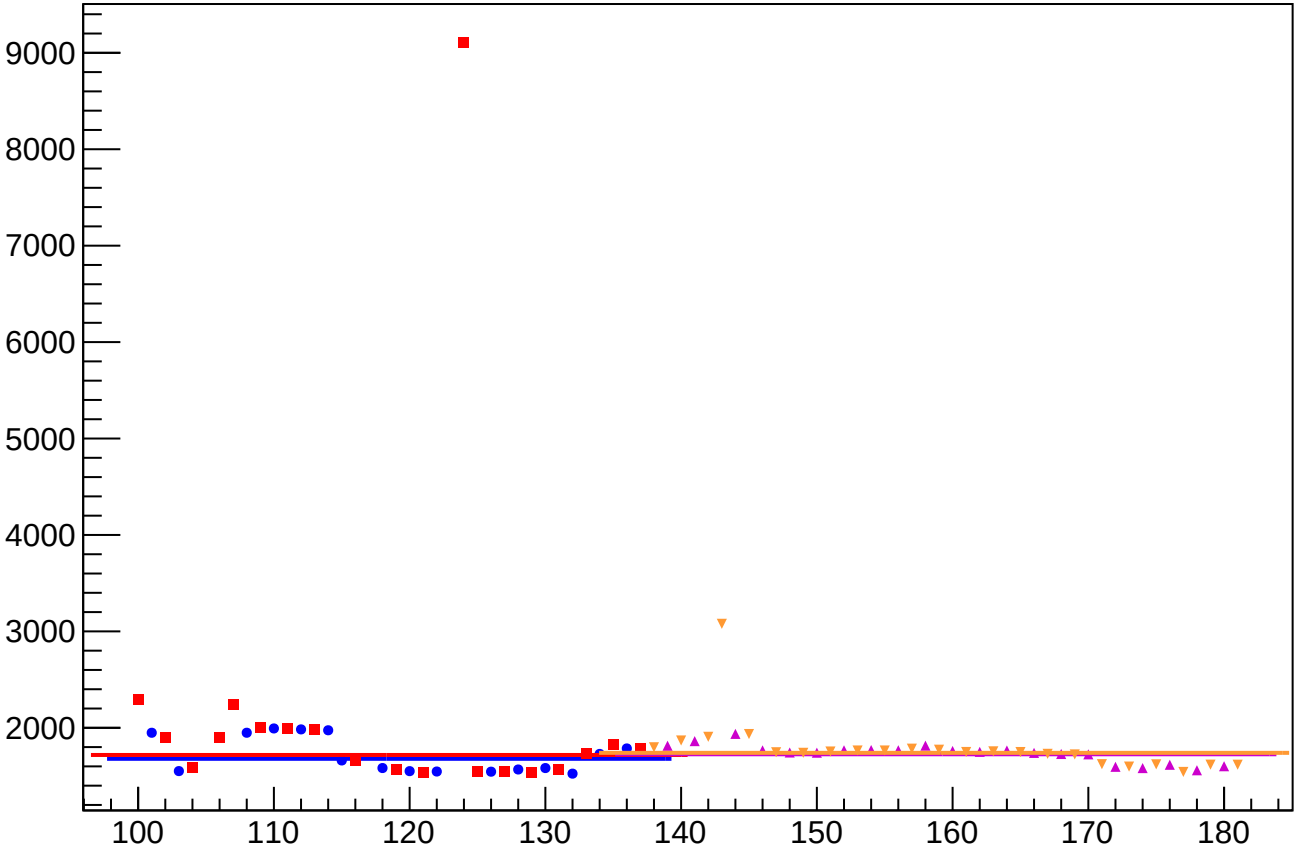
Right: 1770.157+/-448.956 $\chi^2$/NDF: 30.4/34

In: 2197.290+/-346.835 $\chi^2$/NDF:36.3/36

Out: 1039.985+/-344.909 $\chi^2$/NDF:50.2/41

All: 1615.414+/-244.565 $\chi^2$/NDF: 92.1/78

# reg_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.6/15

Left Out: 1740.409+/-0.289 $\chi^2$/NDF:419400.7/22

Right Out: 1718.312+/-0.452 $\chi^2$/NDF: 383179.3/18

Left In: 1725.519+/-0.294 $\chi^2$/NDF:104846.1/20

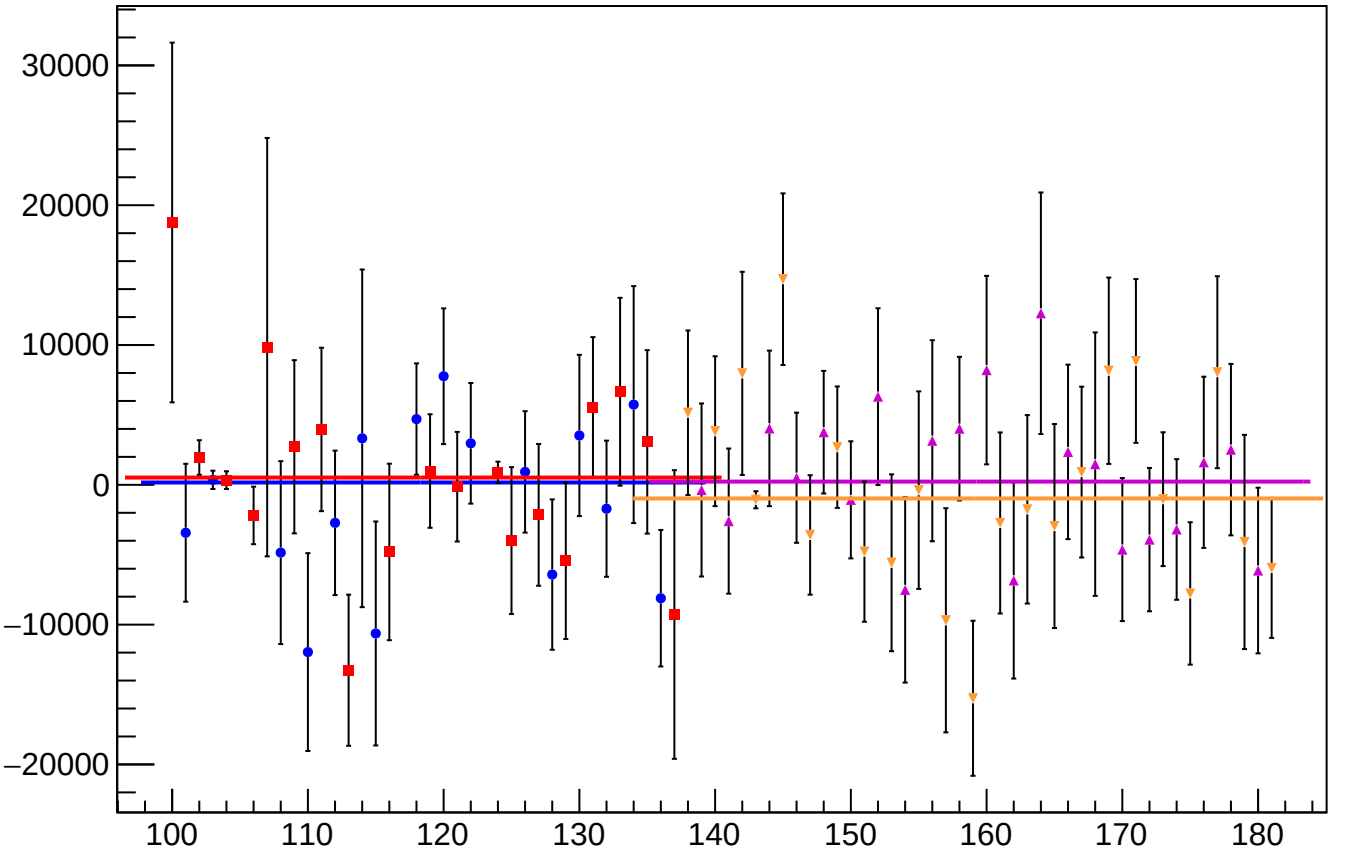
Left: 1733.094+/-0.206 $\chi^2$/NDF: 525549.8/43

Right: 1698.073+/-0.317 $\chi^2$/NDF: 528602.3/34

In: 1711.185+/-0.245 $\chi^2$/NDF:254108.1/36

Out: 1733.992+/-0.244 $\chi^2$/NDF:804276.3/41

All: 1722.668+/-0.173 $\chi^2$/NDF: 1062738.6/78




Right In: 168.283+/-591.607 $\chi^2$/NDF: 15.8/15

Left Out: -976.257+/-547.410 $\chi^2$/NDF:29.6/22

Right Out: 521.080+/-424.783 $\chi^2$/NDF: 18.5/18

Left In: 231.352+/-1244.266 $\chi^2$/NDF:12.4/20

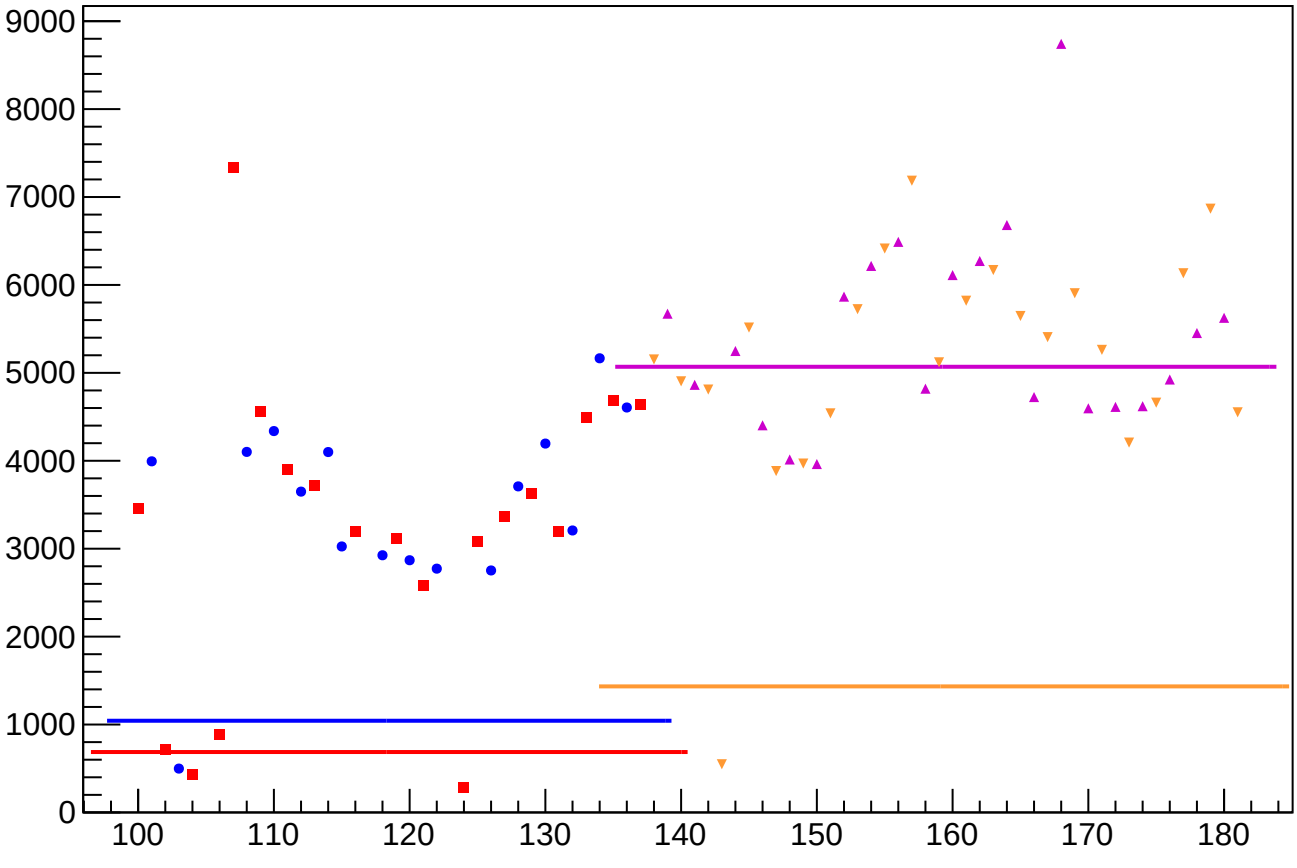
Left: -780.425+/-501.062 $\chi^2$/NDF: 42.8/43

Right: 401.068+/-345.050 $\chi^2$/NDF: 34.6/34

In: 179.912+/-534.288 $\chi^2$/NDF:28.2/36

Out: -41.680+/-335.594 $\chi^2$/NDF:52.8/41

All: 21.011+/-284.185 $\chi^2$/NDF: 81.1/78




Right In: 1043.117+/-0.418 $\chi^2$/NDF: 8111897.6/15

Left Out: 1433.835+/-0.387 $\chi^2$/NDF:22457449.7/22

Right Out: 687.329+/-0.300 $\chi^2$/NDF: 8631529.6/18

Left In: 5069.227+/-0.880 $\chi^2$/NDF:1056478.9/20

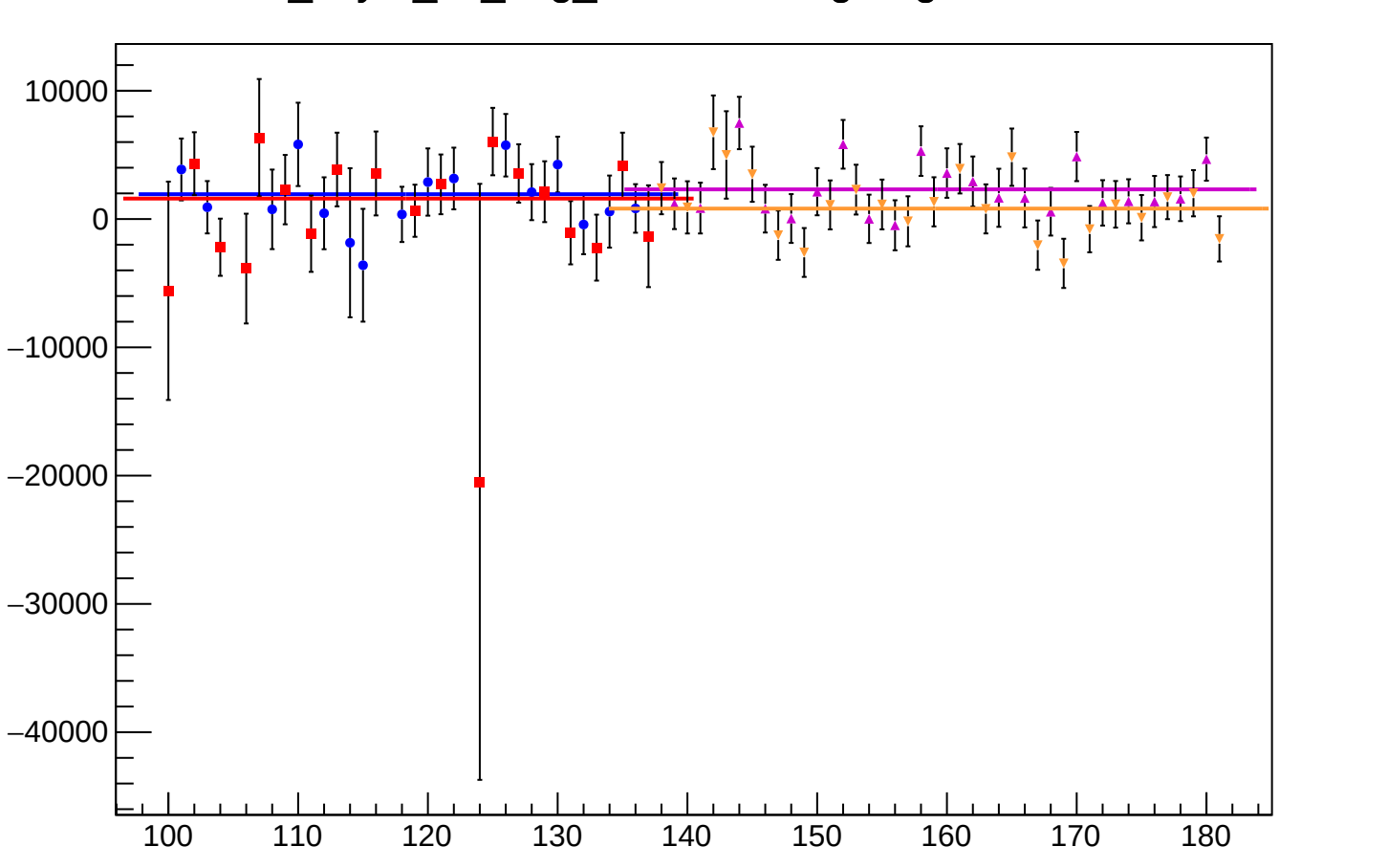
Left: 2023.368+/-0.354 $\chi^2$/NDF: 37818152.1/43

Right: 808.358+/-0.244 $\chi^2$/NDF: 17220710.7/34

In: 1785.470+/-0.378 $\chi^2$/NDF:26247278.1/36

Out: 967.897+/-0.237 $\chi^2$/NDF:33410470.4/41

All: 1199.198+/-0.201 $\chi^2$/NDF: 63015933.3/7




Right In: 1934.871+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 813.782+/-408.883 $\chi^2$/NDF:29.8/22

Right Out: 1595.521+/-642.212 $\chi^2$/NDF: 19.4/18

Left In: 2312.604+/-416.078 $\chi^2$/NDF:25.1/20

Left: 1550.121+/-291.634 $\chi^2$/NDF: 61.5/43

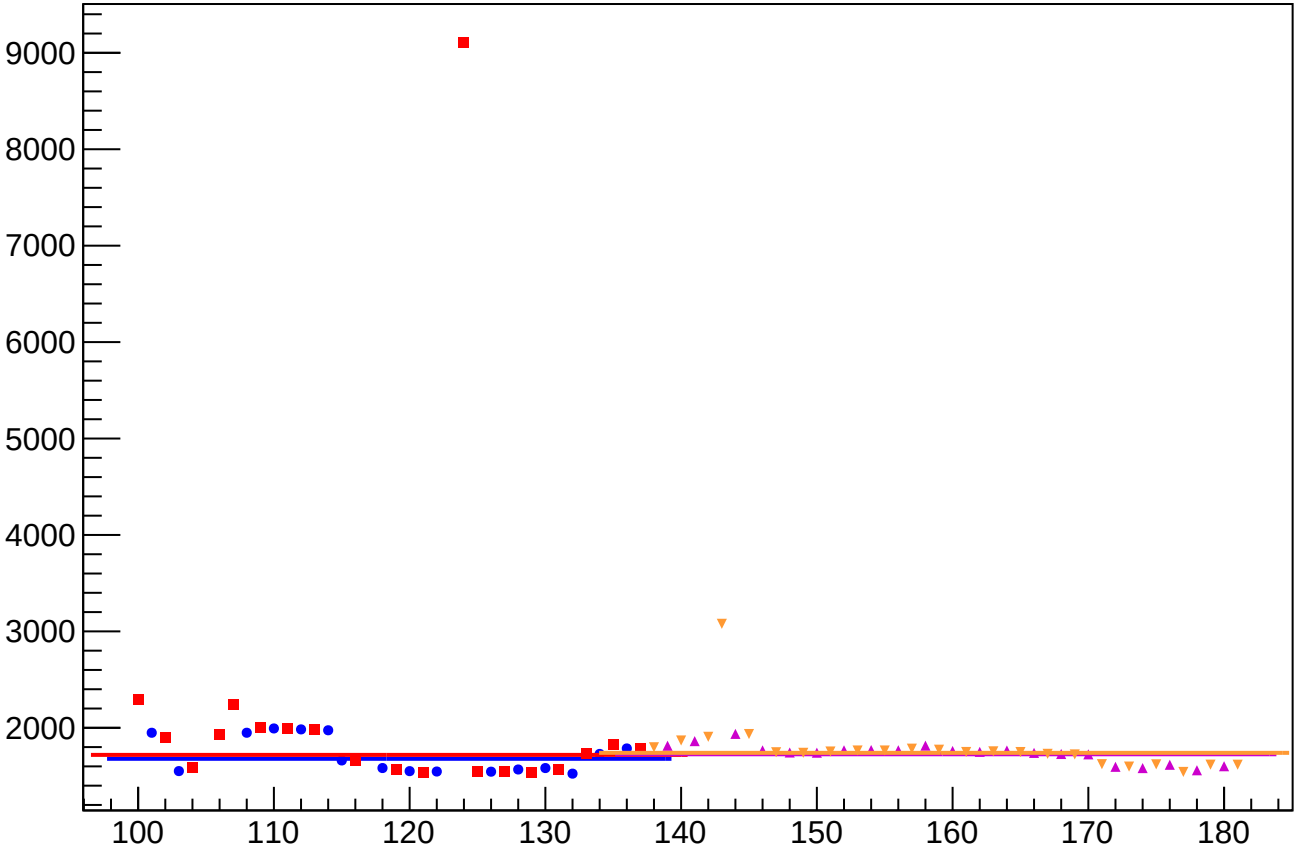
Right: 1769.026+/-448.957 $\chi^2$/NDF: 30.4/34

In: 2197.342+/-346.835 $\chi^2$/NDF:36.3/36

Out: 1039.266+/-344.909 $\chi^2$/NDF:50.2/41

All: 1615.080+/-244.566 $\chi^2$/NDF: 92.1/78

# cor_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.7/15

Left Out: 1740.409+/-0.289 $\chi^2$/NDF:419400.7/22

Right Out: 1719.146+/-0.452 $\chi^2$/NDF: 384922.3/18

Left In: 1725.519+/-0.294 $\chi^2$/NDF:104846.1/20

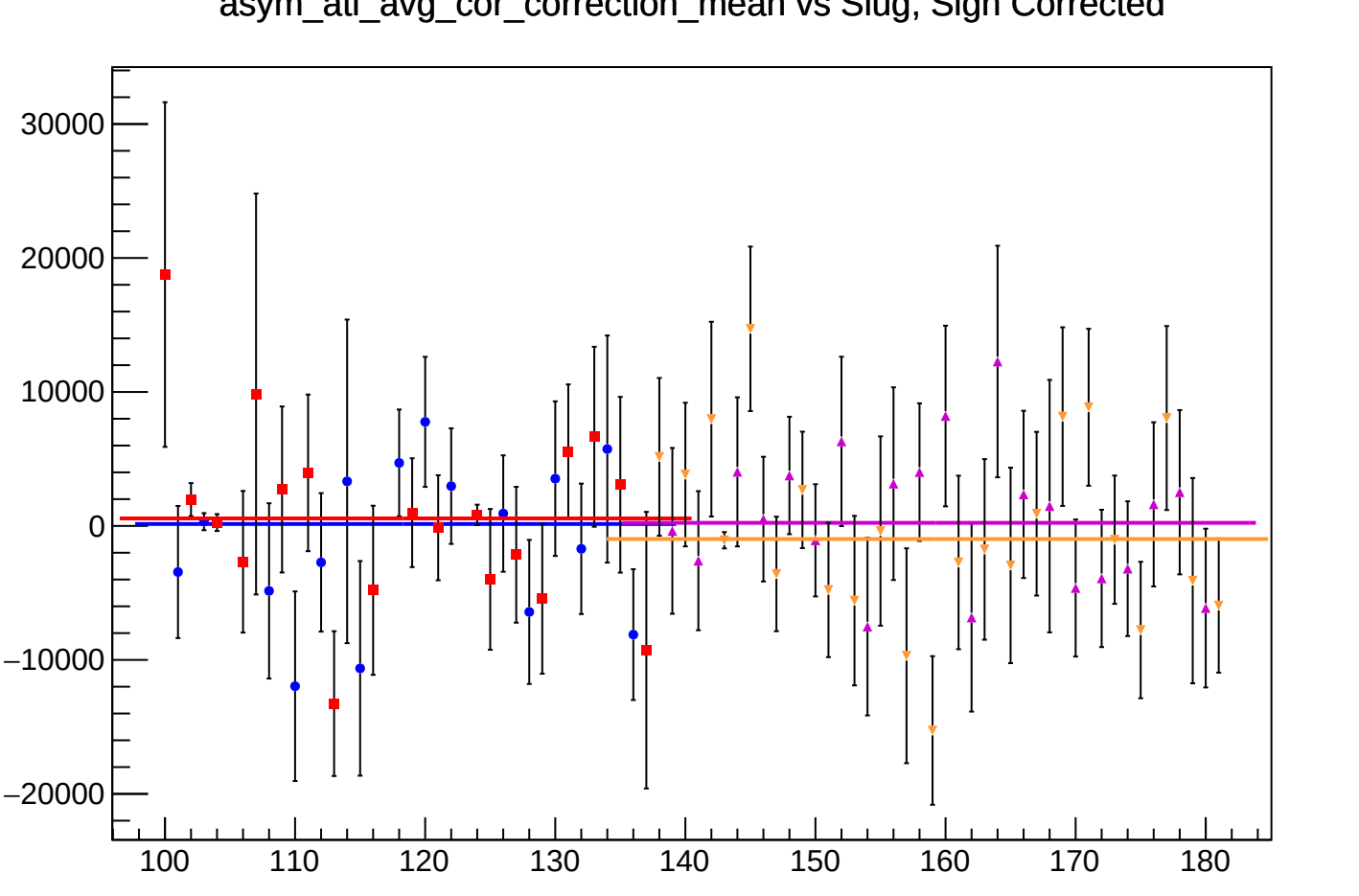
Left: 1733.094+/-0.206 $\chi^2$/NDF: 525549.8/43

Right: 1698.473+/-0.317 $\chi^2$/NDF: 530510.4/34

In: 1711.185+/-0.245 $\chi^2$/NDF:254108.2/36

Out: 1734.239+/-0.244 $\chi^2$/NDF:805892.5/41

All: 1722.790+/-0.173 $\chi^2$/NDF: 1064449.0/78




Right In: 146.548+/-579.356 $\chi^2$/NDF: 15.8/15

Left Out: -975.927+/-547.391 $\chi^2$/NDF:29.6/22

Right Out: 561.454+/-430.621 $\chi^2$/NDF: 17.2/18

Left In: 231.479+/-1244.266 $\chi^2$/NDF:12.4/20

Left: -780.138+/-501.048 $\chi^2$/NDF: 42.8/43

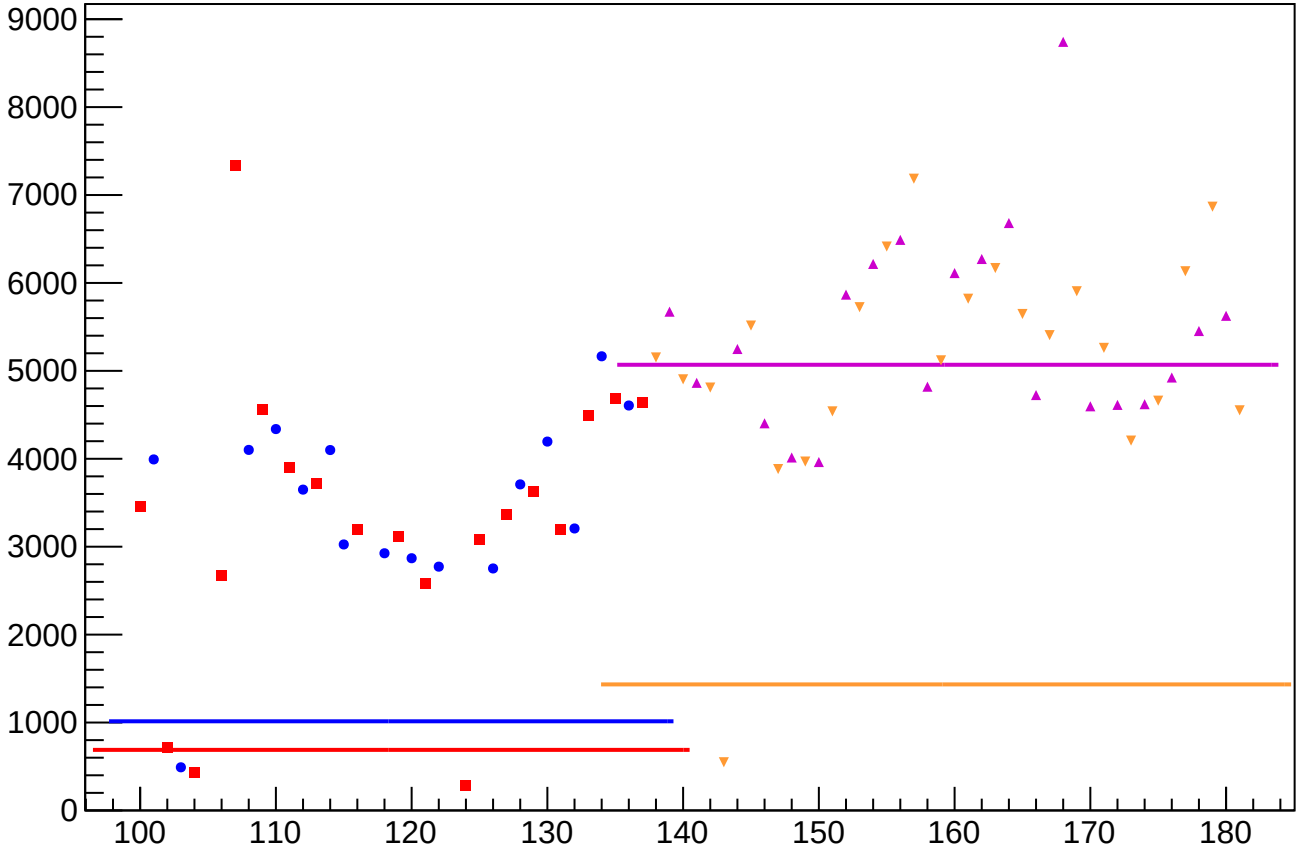
Right: 413.806+/-345.609 $\chi^2$/NDF: 33.3/34

In: 161.680+/-525.213 $\chi^2$/NDF:28.2/36

Out: -26.260+/-338.447 $\chi^2$/NDF:51.7/41

All: 28.884+/-284.494 $\chi^2$/NDF: 79.9/78

# asym_atl_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1014.094+/-0.410 $\chi^2$/NDF: 8223017.6/15

Left Out: 1433.759+/-0.387 $\chi^2$/NDF:22458021.4/22

Right Out: 689.055+/-0.304 $\chi^2$/NDF: 8910364.4/18

Left In: 5069.223+/-0.880 $\chi^2$/NDF:1056496.8/20

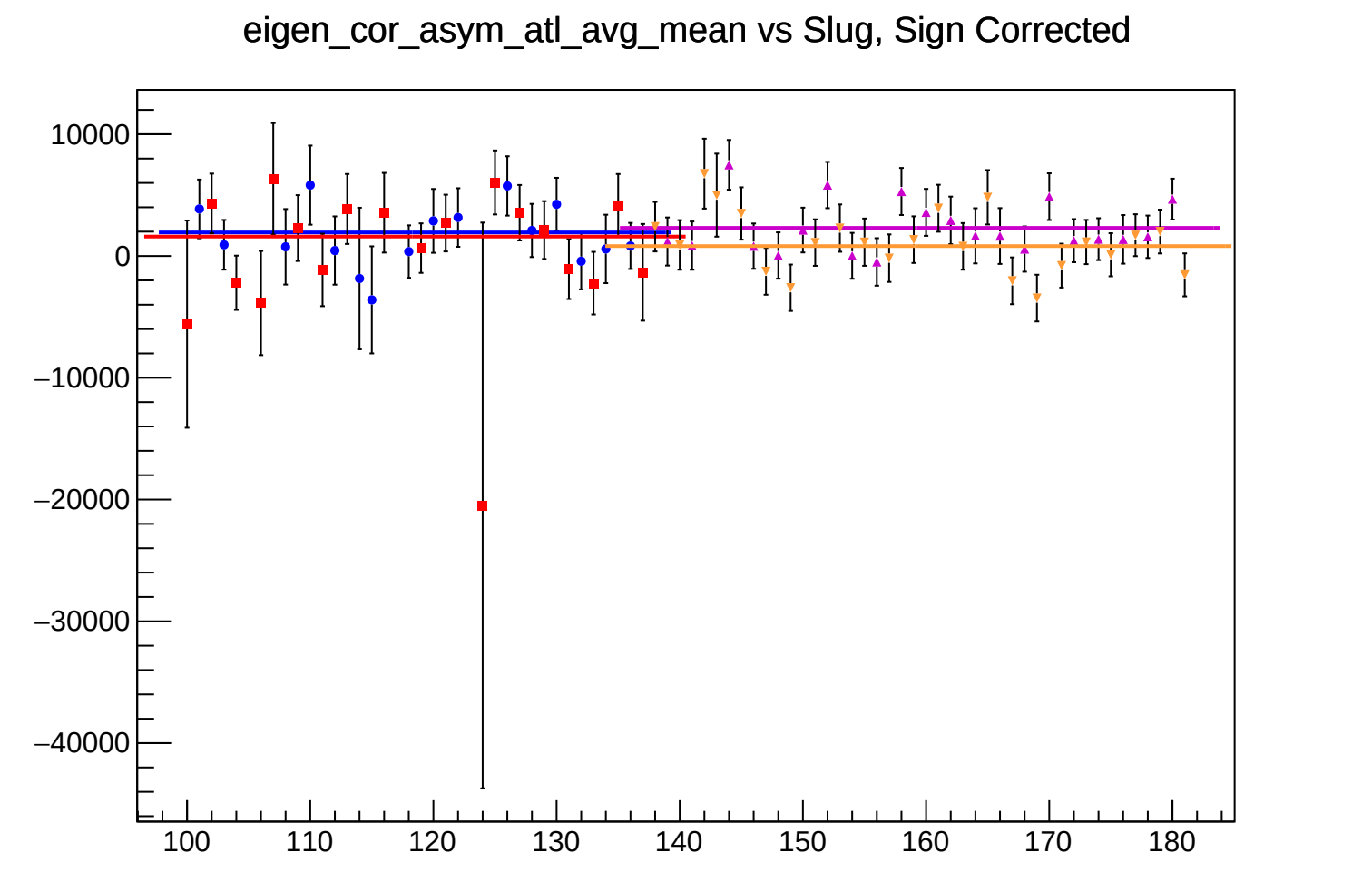
Left: 2023.271+/-0.354 $\chi^2$/NDF: 37819479.3/43

Right: 804.723+/-0.244 $\chi^2$/NDF: 17538883.1/34

In: 1736.614+/-0.371 $\chi^2$/NDF:26737443.8/36

Out: 973.742+/-0.239 $\chi^2$/NDF:33654990.3/41

All: 1197.577+/-0.201 $\chi^2$/NDF: 63373892.2/7




Right In: 1934.871+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 813.782+/-408.883 $\chi^2$/NDF:29.8/22

Right Out: 1595.521+/-642.212 $\chi^2$/NDF: 19.4/18

Left In: 2312.604+/-416.078 $\chi^2$/NDF:25.1/20

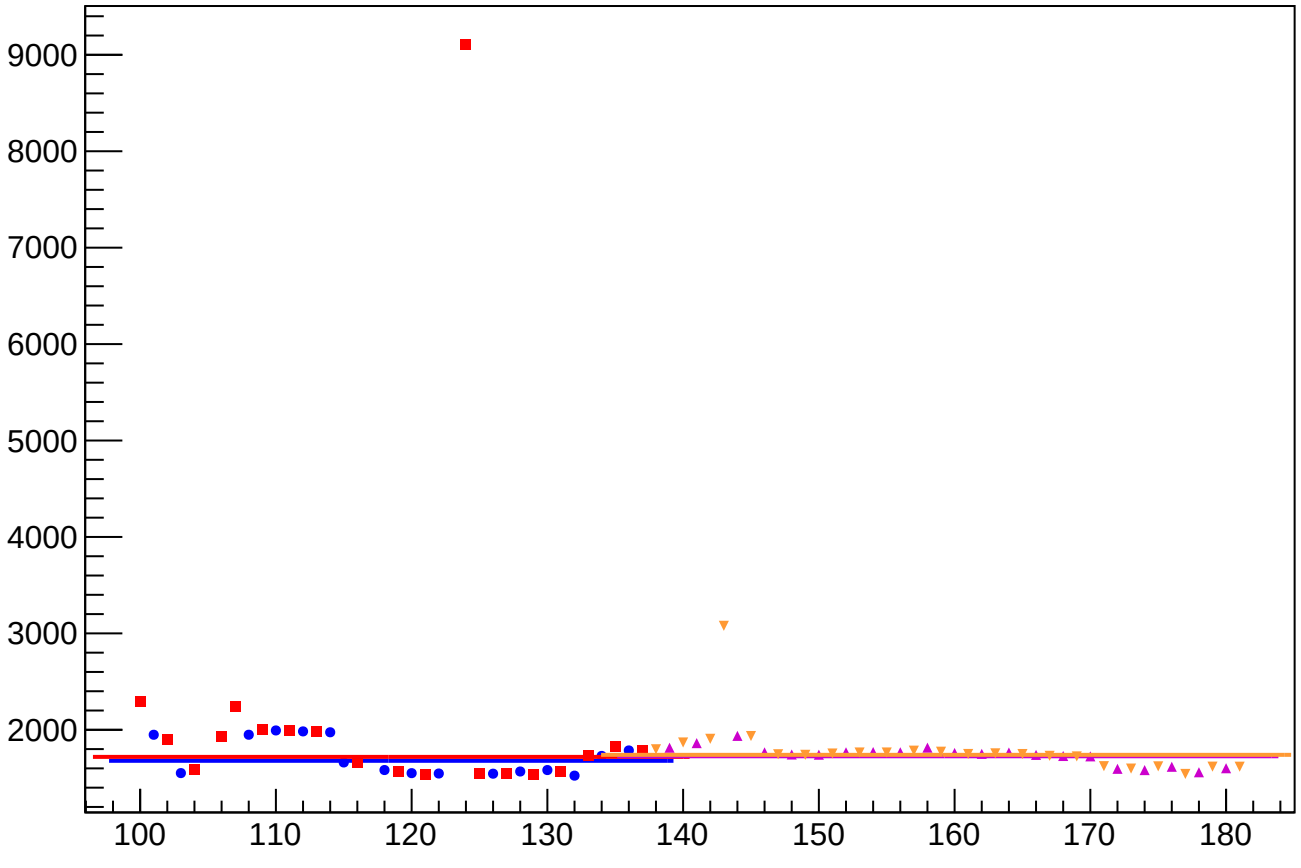
Left: 1550.121+/-291.634 $\chi^2$/NDF: 61.5/43

Right: 1769.026+/-448.957 $\chi^2$/NDF: 30.4/34

In: 2197.342+/-346.835 $\chi^2$/NDF:36.3/36

Out: 1039.266+/-344.909 $\chi^2$/NDF:50.2/41

All: 1615.080+/-244.566 $\chi^2$/NDF: 92.1/78




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.7/15

Left Out: 1740.409+/-0.289 $\chi^2$/NDF:419400.7/22

Right Out: 1719.146+/-0.452 $\chi^2$/NDF: 384922.3/18

Left In: 1725.519+/-0.294 $\chi^2$/NDF:104846.1/20

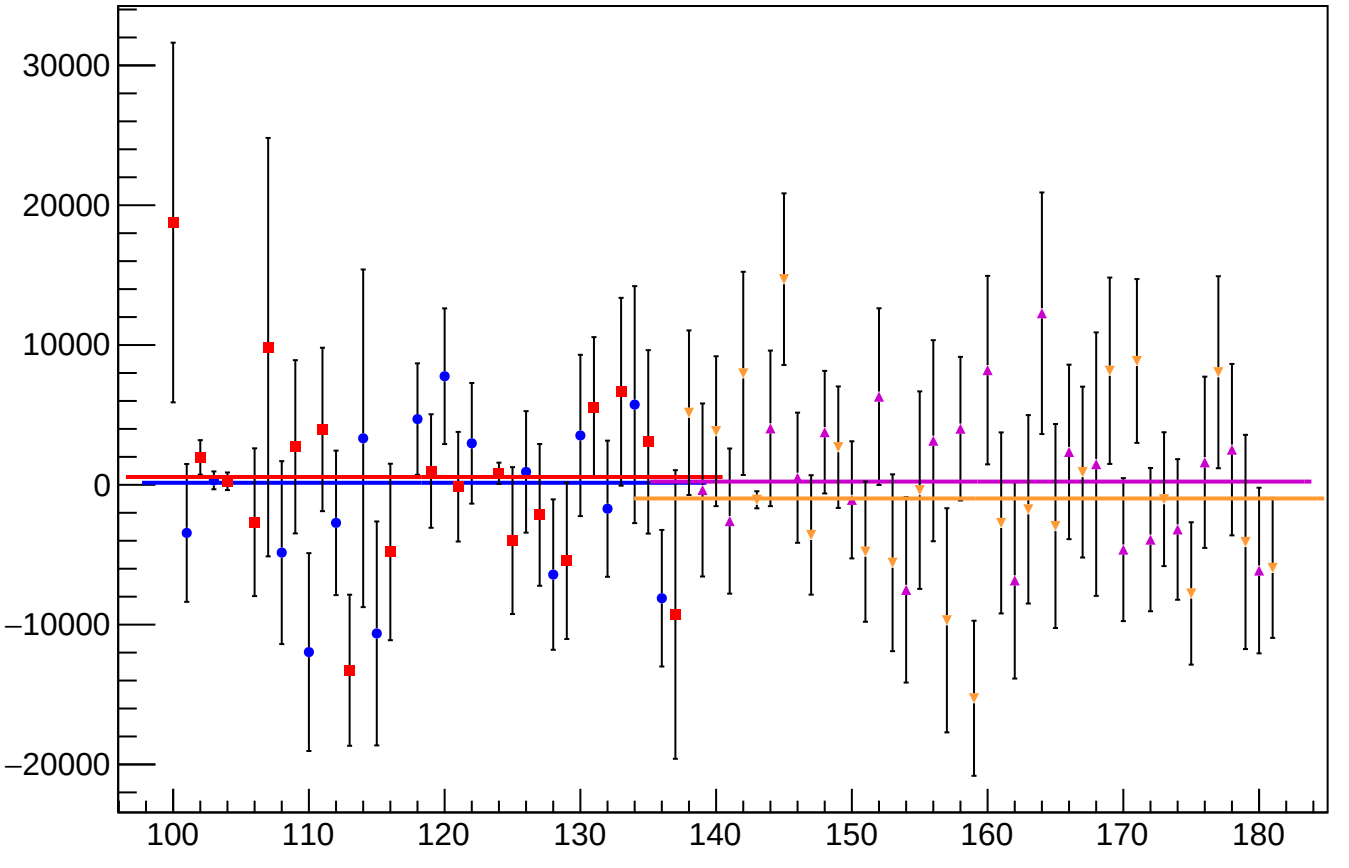
Left: 1733.094+/-0.206 $\chi^2$/NDF: 525549.8/43

Right: 1698.473+/-0.317 $\chi^2$/NDF: 530510.4/34

In: 1711.185+/-0.245 $\chi^2$/NDF:254108.2/36

Out: 1734.239+/-0.244 $\chi^2$/NDF:805892.5/41

All: 1722.790+/-0.173 $\chi^2$/NDF: 1064449.0/78




Right In: 146.548+/-579.356 $\chi^2$/NDF: 15.8/15

Left Out: -975.927+/-547.391 $\chi^2$/NDF:29.6/22

Right Out: 561.454+/-430.621 $\chi^2$/NDF: 17.2/18

Left In: 231.479+/-1244.266 $\chi^2$/NDF:12.4/20

Left: -780.138+/-501.048 $\chi^2$/NDF: 42.8/43

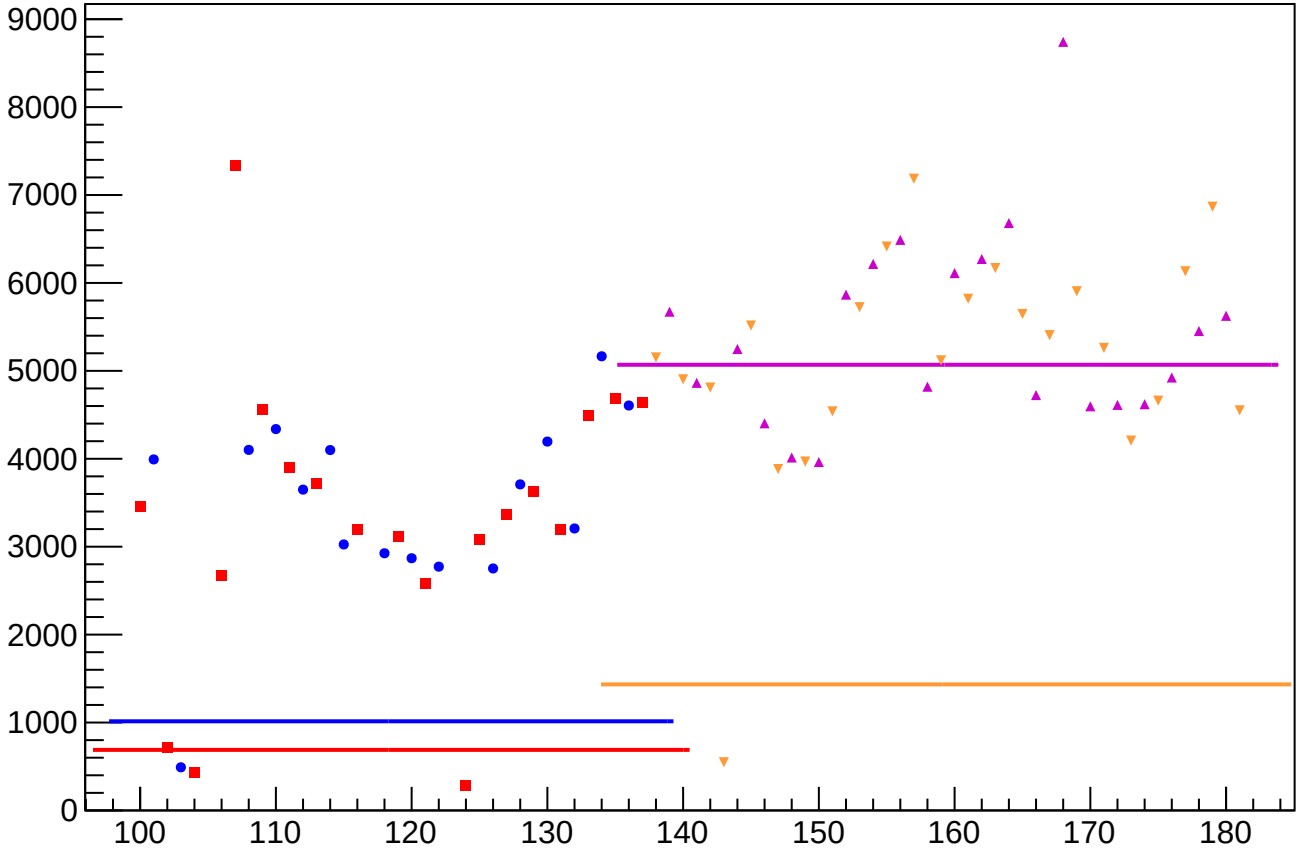
Right: 413.806+/-345.609 $\chi^2$/NDF: 33.3/34

In: 161.680+/-525.213 $\chi^2$/NDF:28.2/36

Out: -26.260+/-338.447 $\chi^2$/NDF:51.7/41

All: 28.884+/-284.494 $\chi^2$/NDF: 79.9/78

asym_atl_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1014.094+/-0.410 $\chi^2$/NDF: 8223017.6/15

Left Out: 1433.759+/-0.387 $\chi^2$/NDF:22458021.4/22

Right Out: 689.055+/-0.304 $\chi^2$/NDF: 8910364.4/18

Left In: 5069.223+/-0.880 $\chi^2$/NDF:1056496.8/20

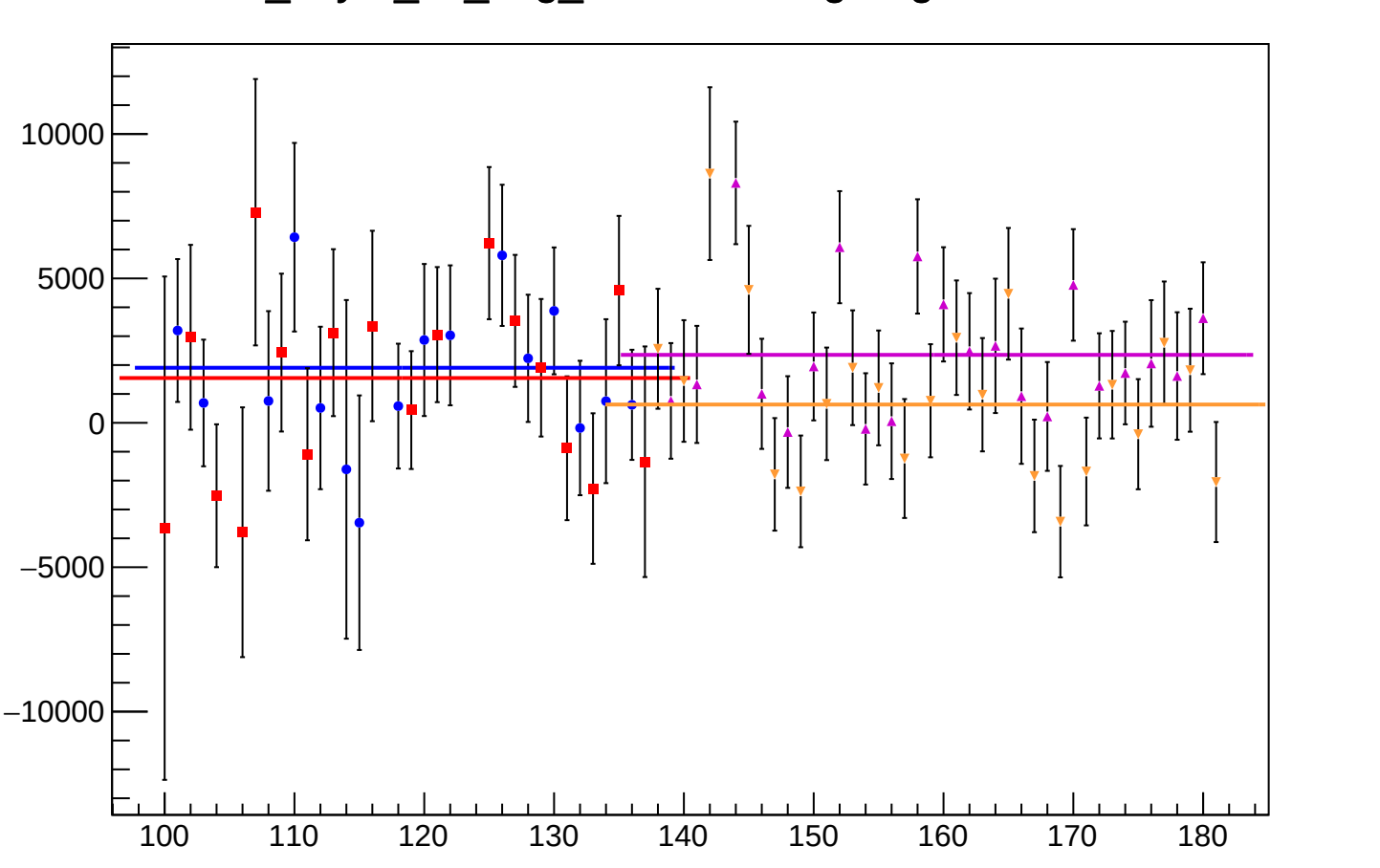
Left: 2023.271+/-0.354 $\chi^2$/NDF: 37819479.3/43

Right: 804.723+/-0.244 $\chi^2$/NDF: 17538883.1/34

In: 1736.614+/-0.371 $\chi^2$/NDF:26737443.8/36

Out: 973.742+/-0.239 $\chi^2$/NDF:33654990.3/41

All: 1197.577+/-0.201 $\chi^2$/NDF: 63373892.2/7




Right In: 1906.205+/-636.433 $\chi^2$/NDF: 10.2/15

Left Out: 633.567+/-433.001 $\chi^2$/NDF:31.9/21

Right Out: 1550.986+/-661.054 $\chi^2$/NDF: 17.5/17

Left In: 2352.808+/-434.328 $\chi^2$/NDF:26.0/20

Left: 1490.557+/-306.646 $\chi^2$/NDF: 65.8/42

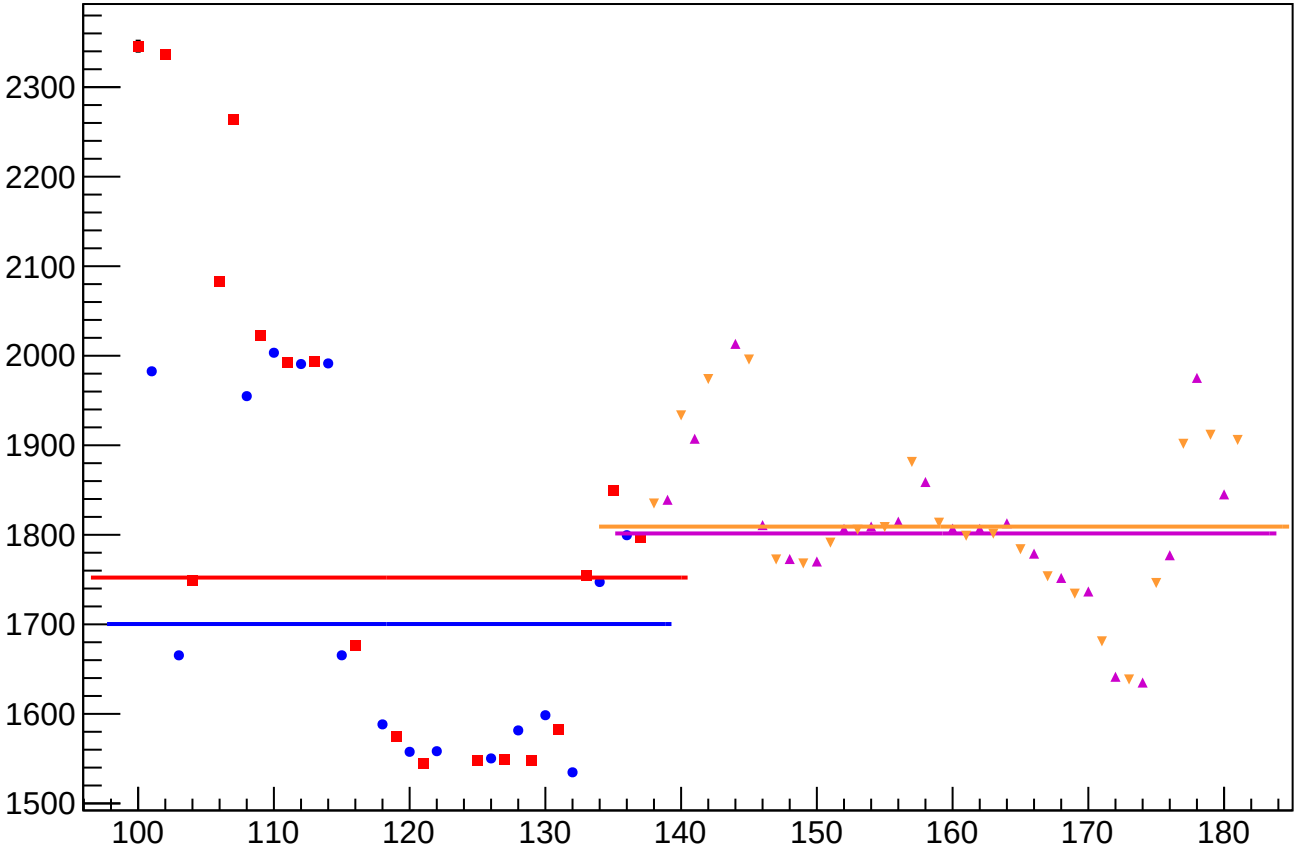
Right: 1735.334+/-458.483 $\chi^2$/NDF: 27.8/33

In: 2210.902+/-358.750 $\chi^2$/NDF:36.6/36

Out: 909.006+/-362.215 $\chi^2$/NDF:50.7/39

All: 1566.211+/-254.891 $\chi^2$/NDF: 93.8/76

# dit_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1700.357+/-0.450 $\chi^2$/NDF: 135419.2/15

Left Out: 1809.171+/-0.306 $\chi^2$/NDF:77965.4/21

Right Out: 1752.239+/-0.466 $\chi^2$/NDF: 247952.8/17

Left In: 1801.522+/-0.307 $\chi^2$/NDF:79533.3/20

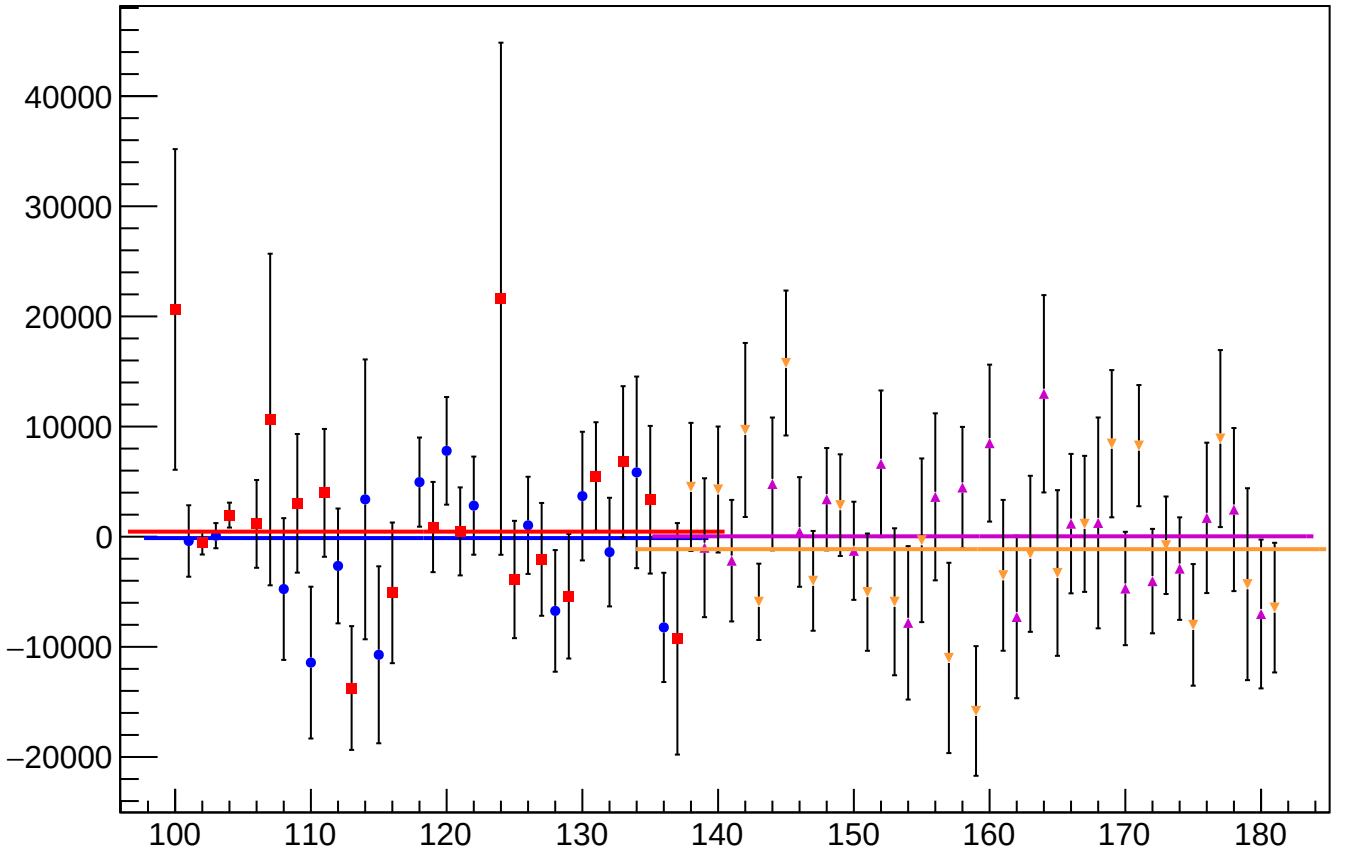
Left: 1805.358+/-0.217 $\chi^2$/NDF: 157809.8/42

Right: 1725.373+/-0.324 $\chi^2$/NDF: 389780.4/33

In: 1769.377+/-0.254 $\chi^2$/NDF:249429.5/36

Out: 1792.023+/-0.256 $\chi^2$/NDF:336331.9/39

All: 1780.599+/-0.180 $\chi^2$/NDF: 589710.6/76




Right In: -125.468+/-867.645 $\chi^2$/NDF: 15.1/15

Left Out: -1131.830+/-1214.136 $\chi^2$/NDF:31.4/22

Right Out: 459.431+/-679.157 $\chi^2$/NDF: 18.5/18

Left In: 34.657+/-1298.841 $\chi^2$/NDF:12.3/20

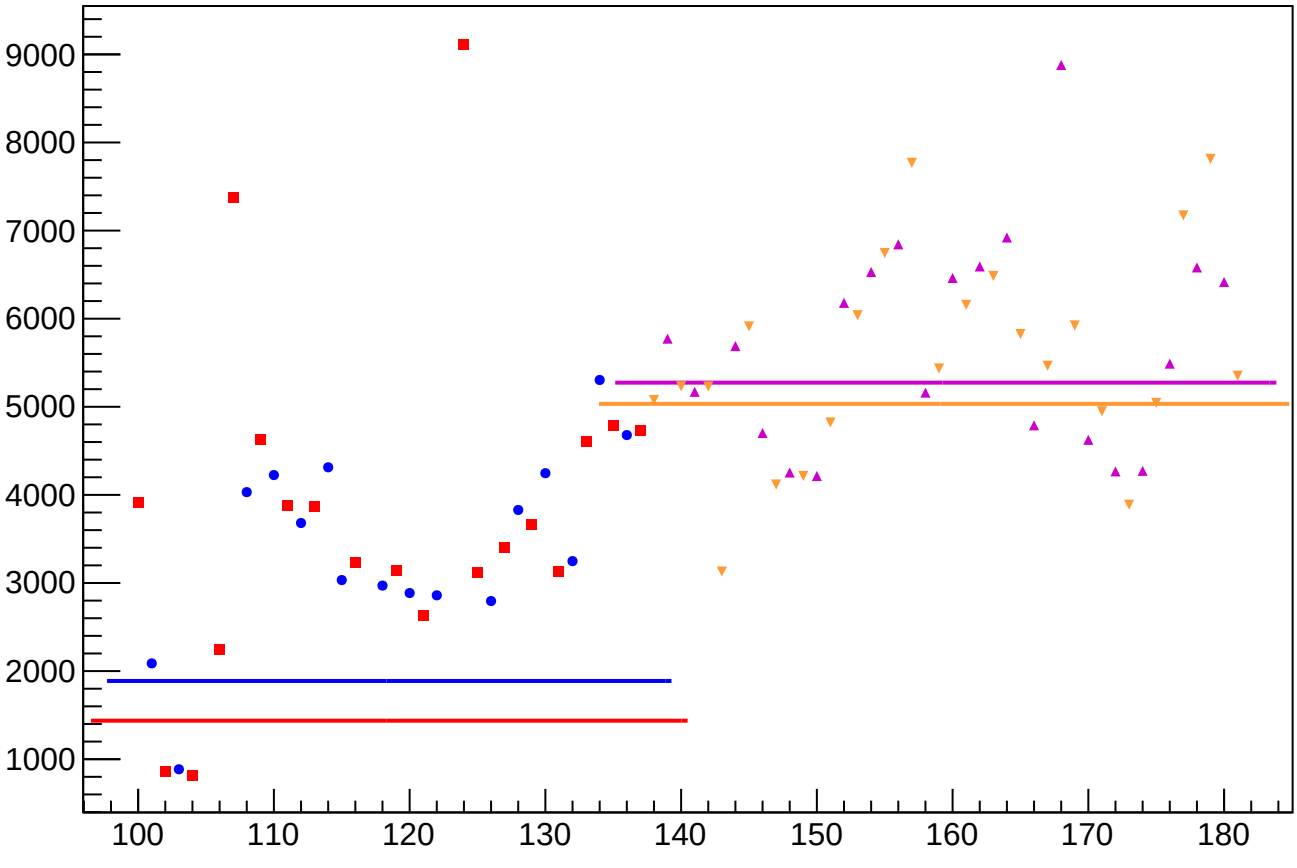
Left: -587.861+/-886.958 $\chi^2$/NDF: 44.1/43

Right: 237.213+/-534.800 $\chi^2$/NDF: 33.9/34

In: -76.061+/-721.475 $\chi^2$/NDF:27.4/36

Out: 80.190+/-592.726 $\chi^2$/NDF:51.2/41

All: 17.227+/-457.988 $\chi^2$/NDF: 78.6/78




Right In: 1887.999+/-0.614 $\chi^2$/NDF: 4425691.6/15

Left Out: 5033.092+/-0.859 $\chi^2$/NDF:1843628.9/22

Right Out: 1437.108+/-0.480 $\chi^2$/NDF: 5964193.5/18

Left In: 5274.307+/-0.918 $\chi^2$/NDF:1266368.8/20

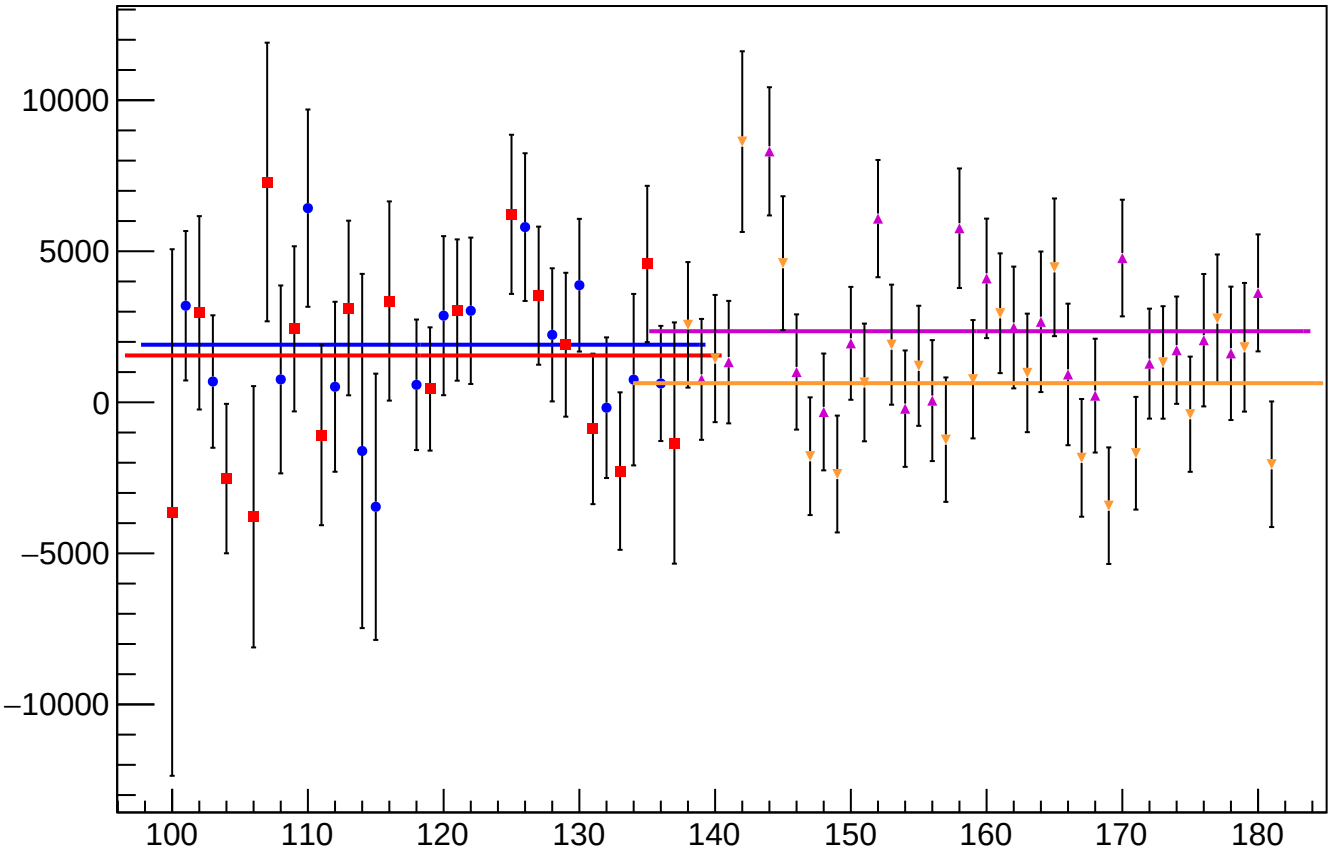
Left: 5145.578+/-0.627 $\chi^2$/NDF: 3146810.6/43

Right: 1608.413+/-0.378 $\chi^2$/NDF: 10724797.8/34

In: 2932.856+/-0.510 $\chi^2$/NDF:15092094.3/36

Out: 2294.129+/-0.419 $\chi^2$/NDF:21170669.2/41

All: 2551.513+/-0.324 $\chi^2$/NDF: 37198641.0/7




Right In: 1906.203+/-636.433 $\chi^2$/NDF: 10.2/15

Left Out: 633.563+/-433.001 $\chi^2$/NDF:31.9/21

Right Out: 1550.983+/-661.054 $\chi^2$/NDF: 17.5/17

Left In: 2352.808+/-434.329 $\chi^2$/NDF:26.0/20

Left: 1490.555+/-306.646 $\chi^2$/NDF: 65.8/42

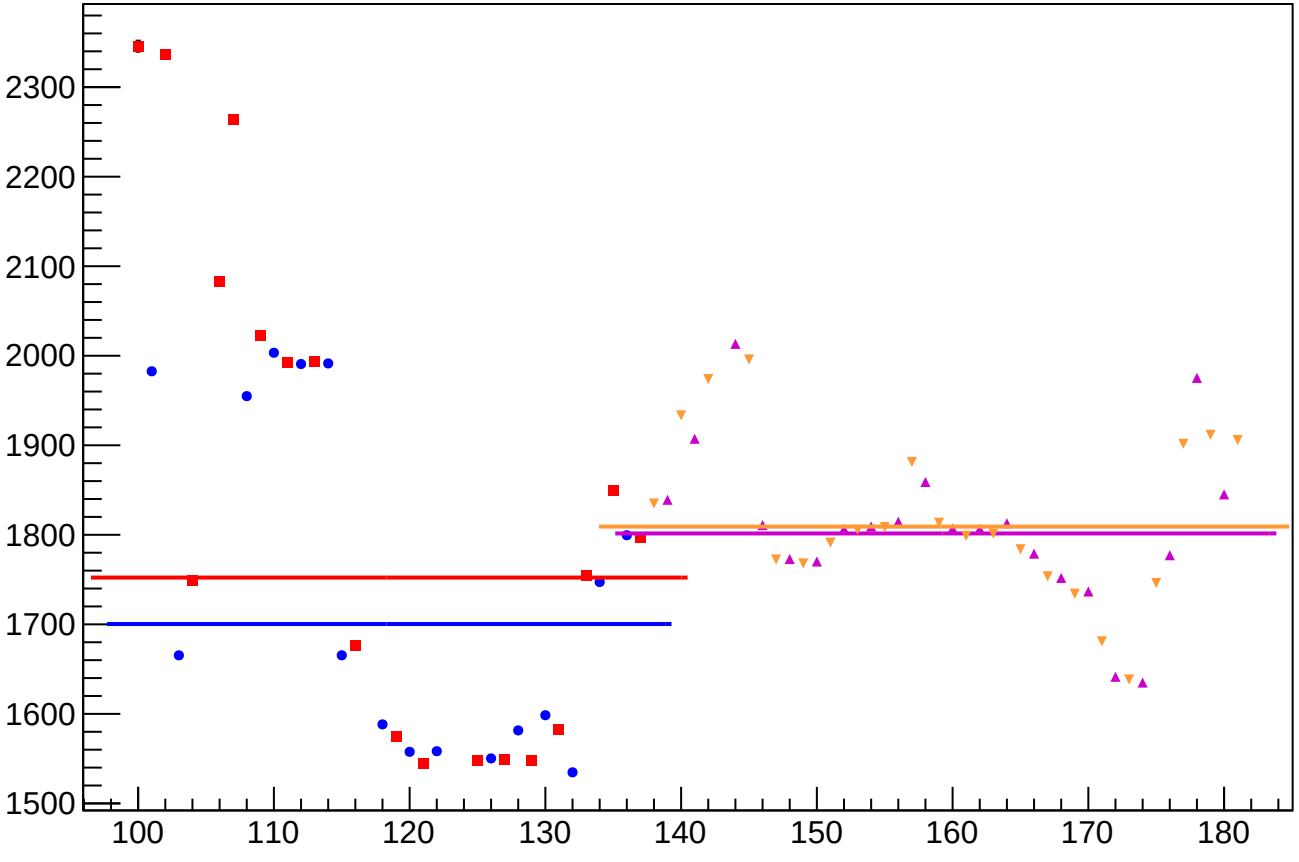
Right: 1735.331+/-458.483 $\chi^2$/NDF: 27.8/33

In: 2210.902+/-358.750 $\chi^2$/NDF:36.6/36

Out: 909.003+/-362.215 $\chi^2$/NDF:50.7/39

All: 1566.209+/-254.891 $\chi^2$/NDF: 93.8/76

# eigen_dit_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1700.357+/-0.450 $\chi^2$/NDF: 135419.5/15

Left Out: 1809.172+/-0.306 $\chi^2$/NDF:77969.1/21

Right Out: 1752.238+/-0.466 $\chi^2$/NDF: 247952.3/17

Left In: 1801.523+/-0.307 $\chi^2$/NDF:79536.7/20

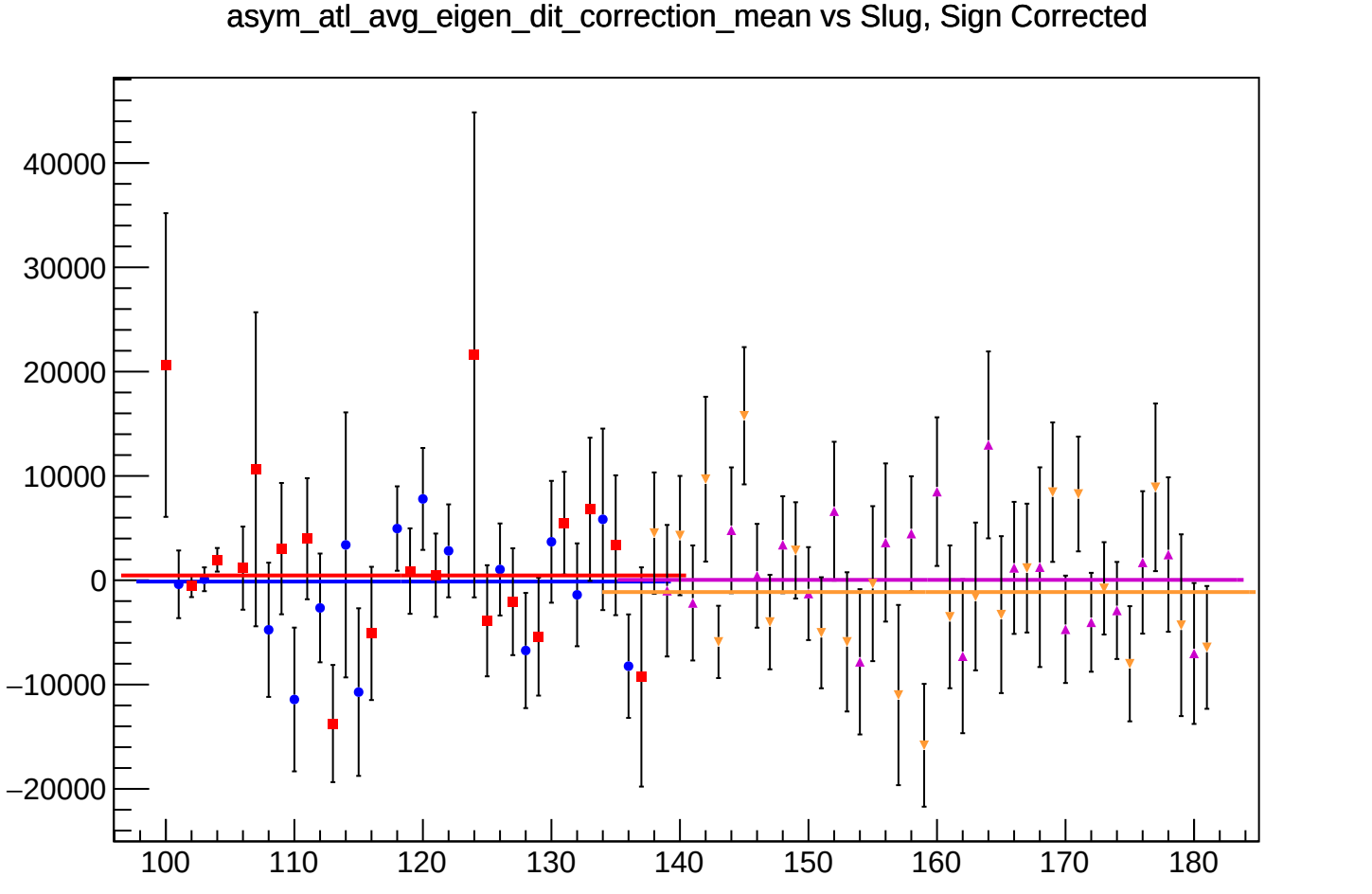
Left: 1805.359+/-0.217 $\chi^2$/NDF: 157816.9/42

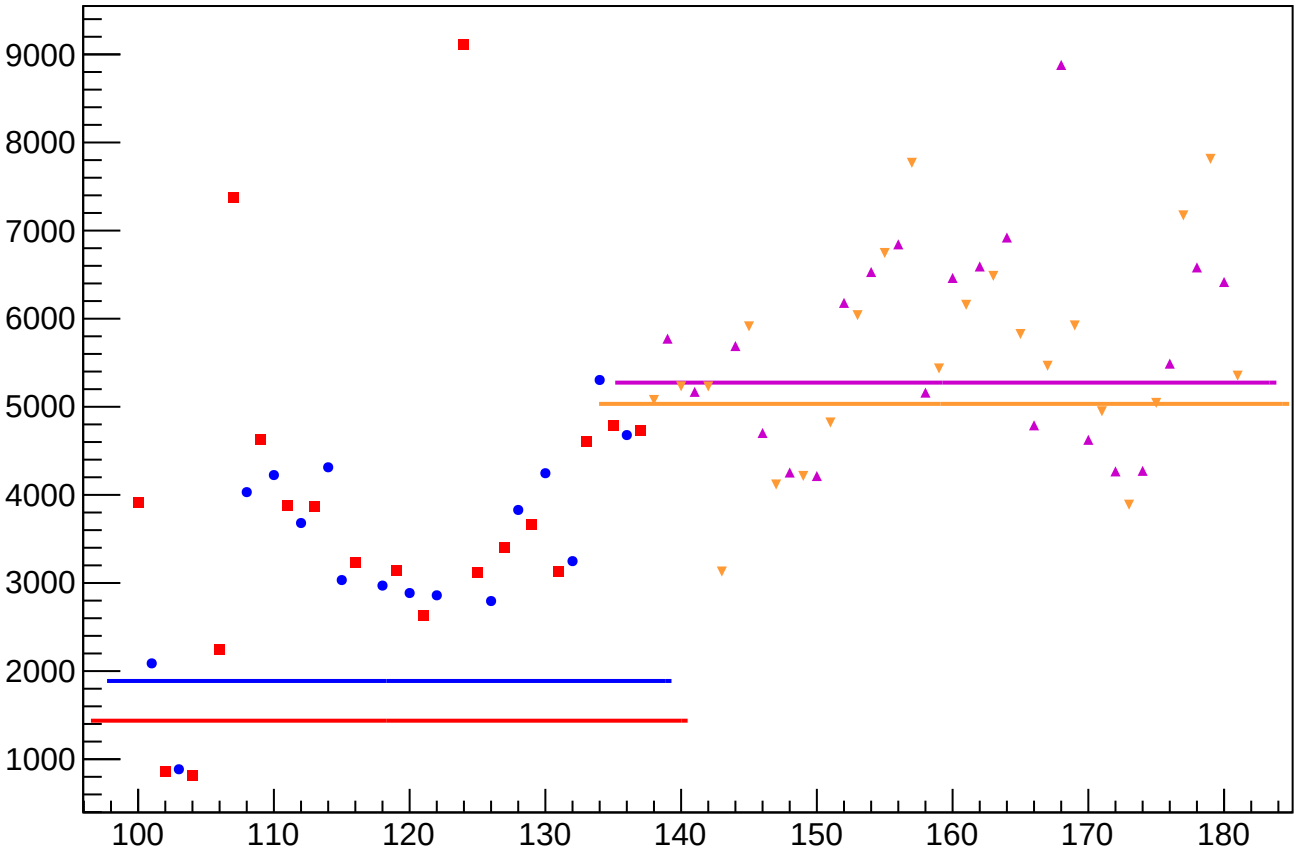
Right: 1725.372+/-0.324 $\chi^2$/NDF: 389780.1/33

In: 1769.378+/-0.254 $\chi^2$/NDF:249434.2/36

Out: 1792.024+/-0.256 $\chi^2$/NDF:336335.7/39

All: 1780.600+/-0.180 $\chi^2$/NDF: 589719.1/76


asym_atl_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -125.464+/-867.639 χ²/NDF: 15.1/15
Left Out: -1131.835+/-1214.138 χ²/NDF:31.4/22
Right Out: 459.430+/-679.152 χ²/NDF: 18.5/18
Left In: 34.657+/-1298.843 χ²/NDF:12.3/20
Left: -587.864+/-886.960 χ²/NDF: 44.1/43
Right: 237.214+/-534.797 χ²/NDF: 33.9/34
In: -76.058+/-721.472 χ²/NDF:27.4/36
Out: 80.193+/-592.723 χ²/NDF:51.2/41
All: 17.230+/-457.986 χ²/NDF: 78.6/78




Right In: 1887.982+/-0.614 $\chi^2$/NDF: 4425728.6/15

Left Out: 5033.099+/-0.859 $\chi^2$/NDF:1843635.4/22

Right Out: 1437.095+/-0.480 $\chi^2$/NDF: 5964228.2/18

Left In: 5274.316+/-0.918 $\chi^2$/NDF:1266370.0/20

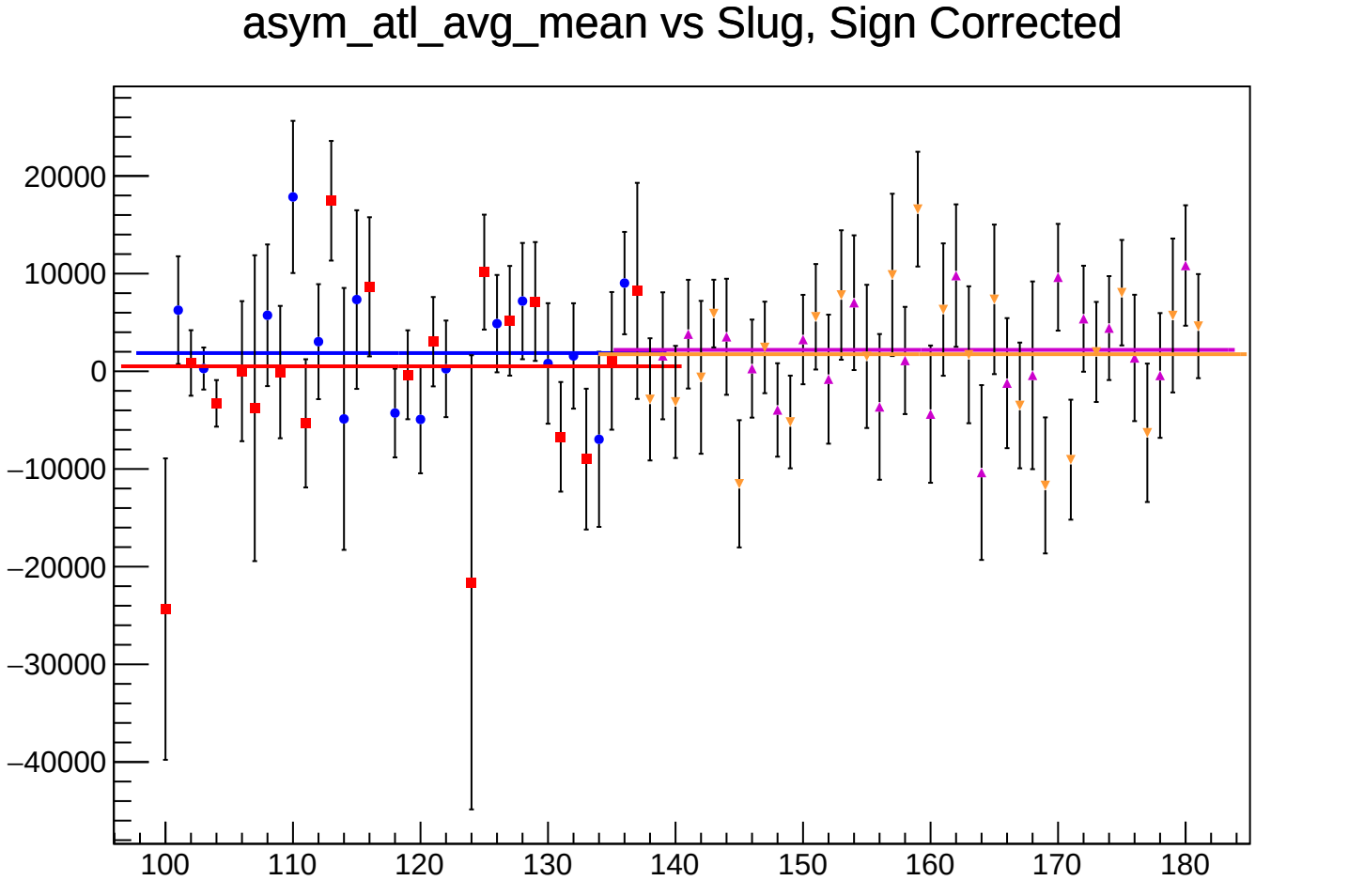
Left: 5145.586+/-0.627 $\chi^2$/NDF: 3146818.7/43

Right: 1608.398+/-0.378 $\chi^2$/NDF: 10724869.8/34

In: 2932.836+/-0.510 $\chi^2$/NDF:15092289.0/36

Out: 2294.109+/-0.419 $\chi^2$/NDF:21170881.2/41

All: 2551.492+/-0.324 $\chi^2$/NDF: 37199055.6/7




Right In: 1866.618+/-1259.187 $\chi^2$/NDF: 13.8/15

Left Out: 1749.886+/-1228.783 $\chi^2$/NDF:29.5/22

Right Out: 512.528+/-1241.513 $\chi^2$/NDF: 24.7/18

Left In: 2193.244+/-1321.115 $\chi^2$/NDF:12.1/20

Left: 1955.532+/-899.753 $\chi^2$/NDF: 41.7/43

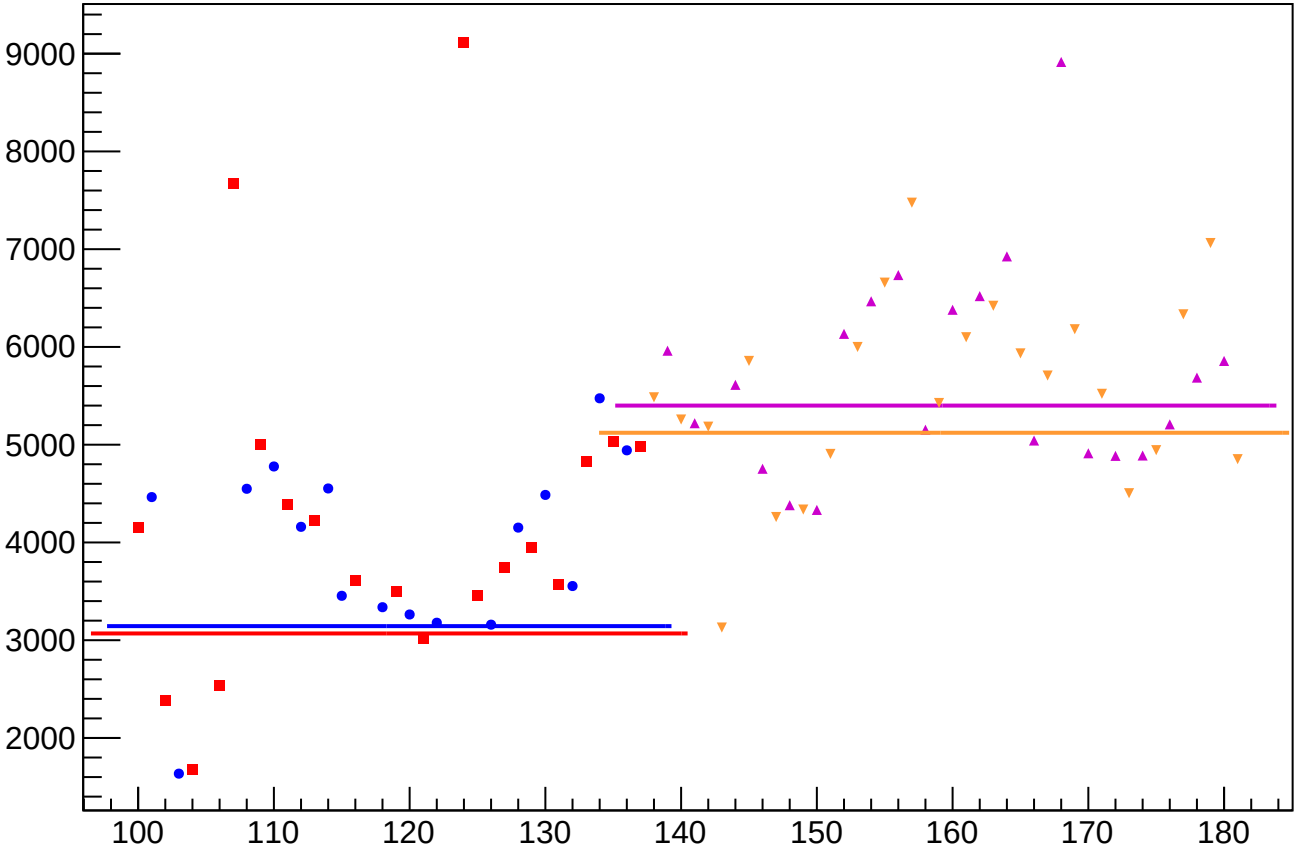
Right: 1180.003+/-884.065 $\chi^2$/NDF: 39.1/34

In: 2022.097+/-911.487 $\chi^2$/NDF:26.0/36

Out: 1137.584+/-873.347 $\chi^2$/NDF:54.6/41

All: 1560.948+/-630.602 $\chi^2$/NDF: 81.1/78

# asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 3144.136+/-0.890 $\chi^2$/NDF: 1883139.2/15

Left Out: 5122.089+/-0.869 $\chi^2$/NDF:1529604.4/22

Right Out: 3069.098+/-0.864 $\chi^2$/NDF: 1881644.6/18

Left In: 5400.127+/-0.934 $\chi^2$/NDF:879610.9/20

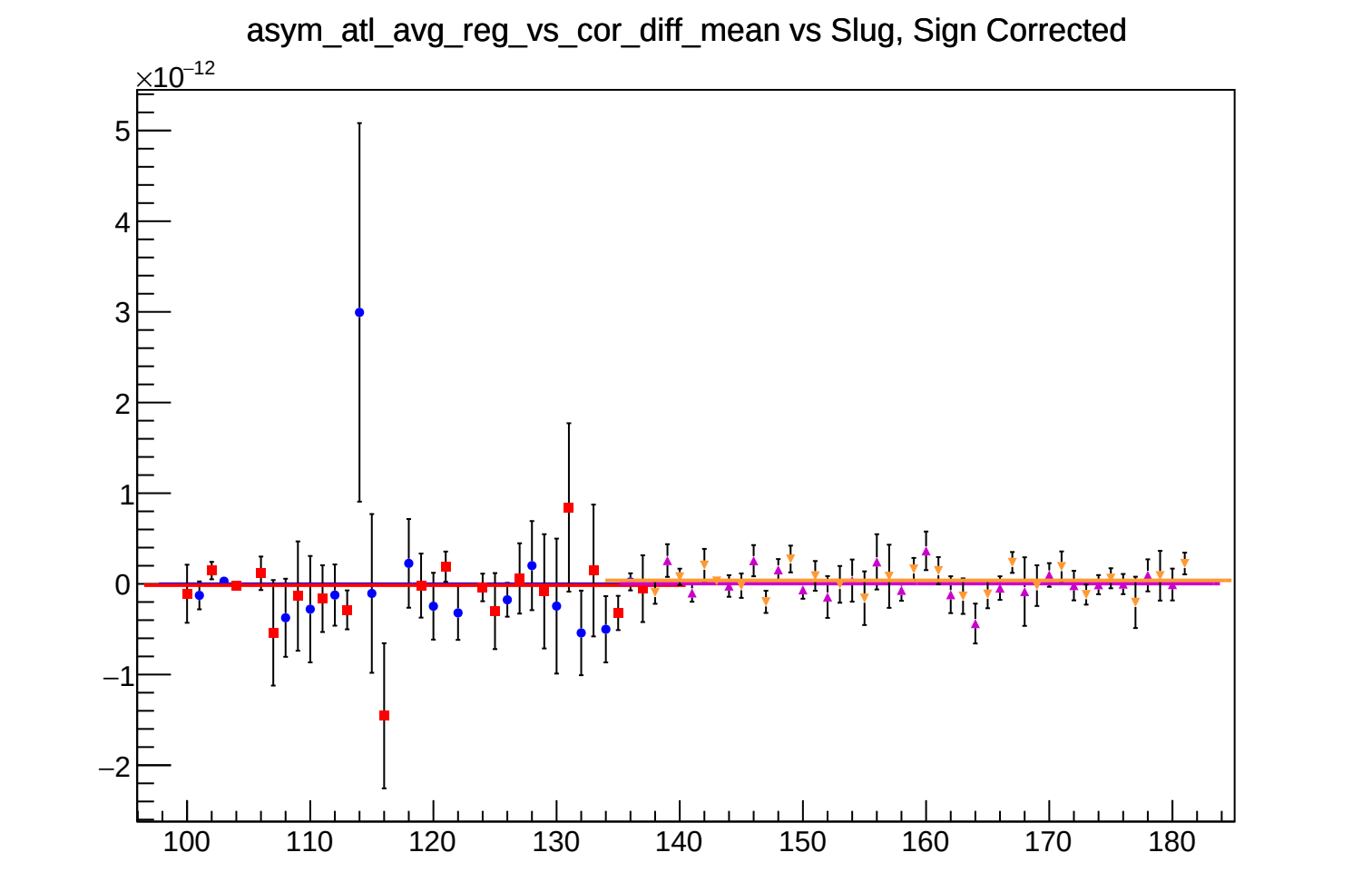
Left: 5251.053+/-0.636 $\chi^2$/NDF: 2456711.0/43

Right: 3105.498+/-0.620 $\chi^2$/NDF: 3768440.9/34

In: 4218.016+/-0.645 $\chi^2$/NDF:5818685.0/36

Out: 4090.053+/-0.613 $\chi^2$/NDF:6217723.1/41

All: 4150.802+/-0.444 $\chi^2$/NDF: 12057113.3/7




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.2/20

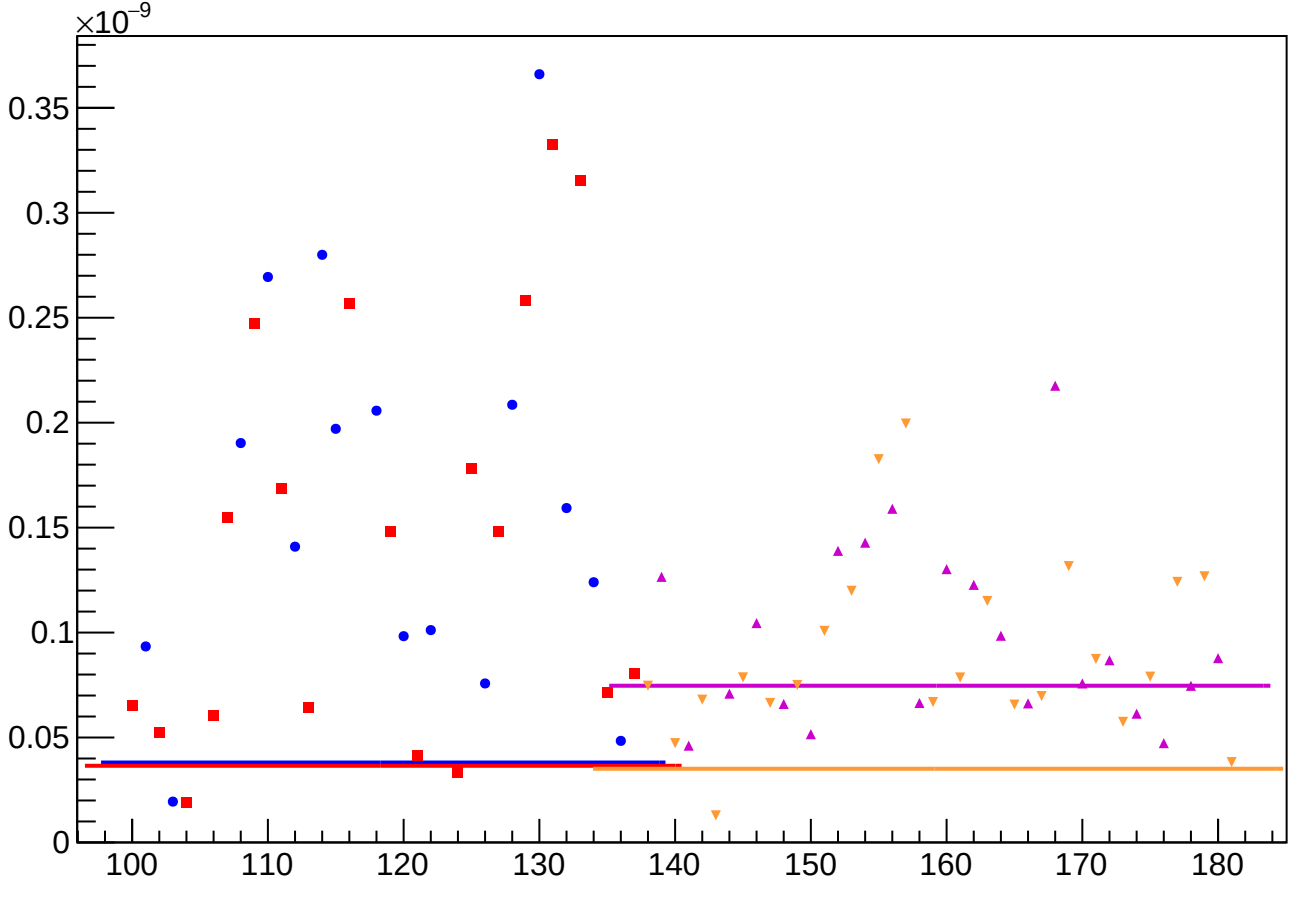
Left: 0.000+/-0.000 $\chi^2$/NDF: 39.9/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 25.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:27.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:38.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 67.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2888502.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6501444.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2683451.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1752942.5/20

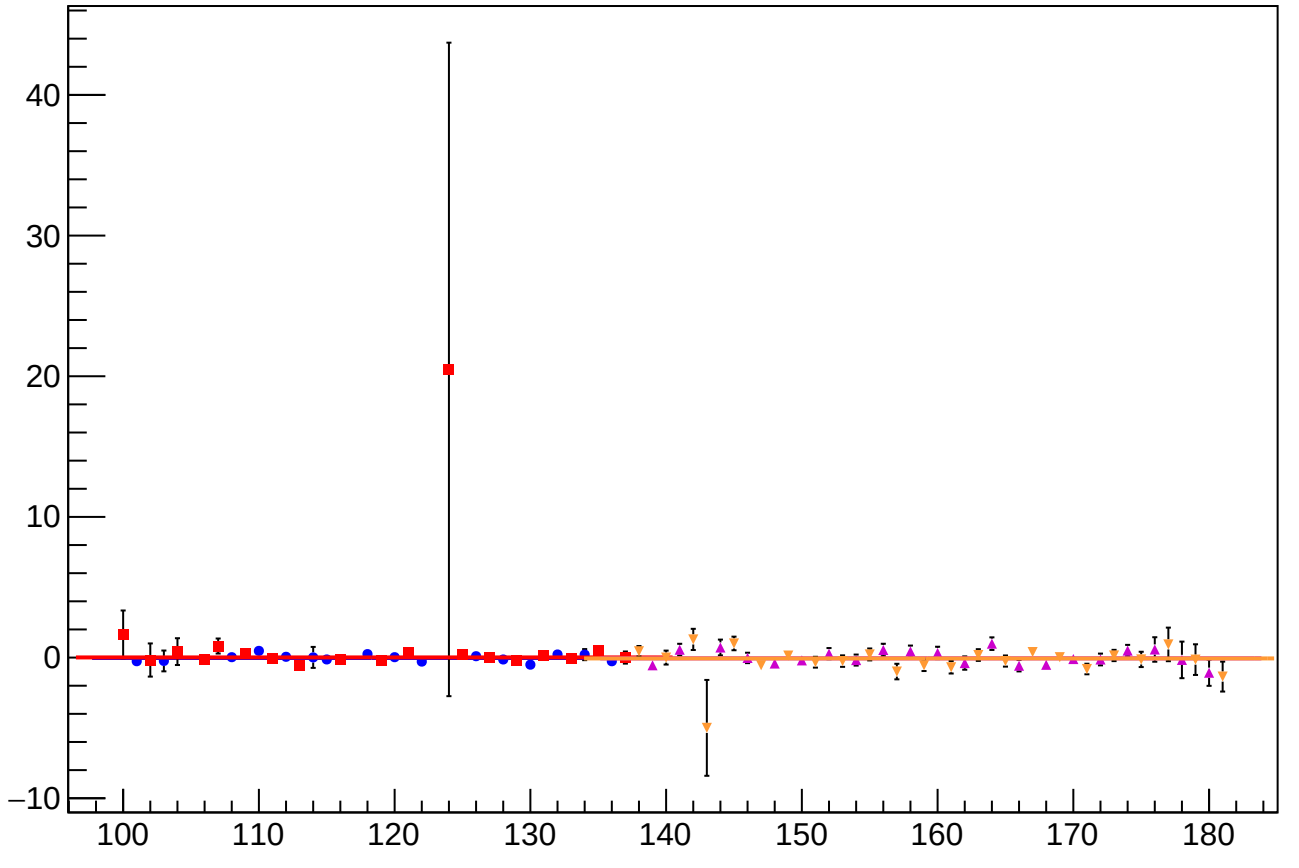
Left: 0.000+/-0.000 $\chi^2$/NDF: 10580384.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5574117.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:5886002.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:9187730.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 16315797.1/78




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: -0.060+/-0.086 $\chi^2$/NDF:31.7/22

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.054+/-0.084 $\chi^2$/NDF:27.5/20

Left: -0.057+/-0.060 $\chi^2$/NDF: 59.2/43

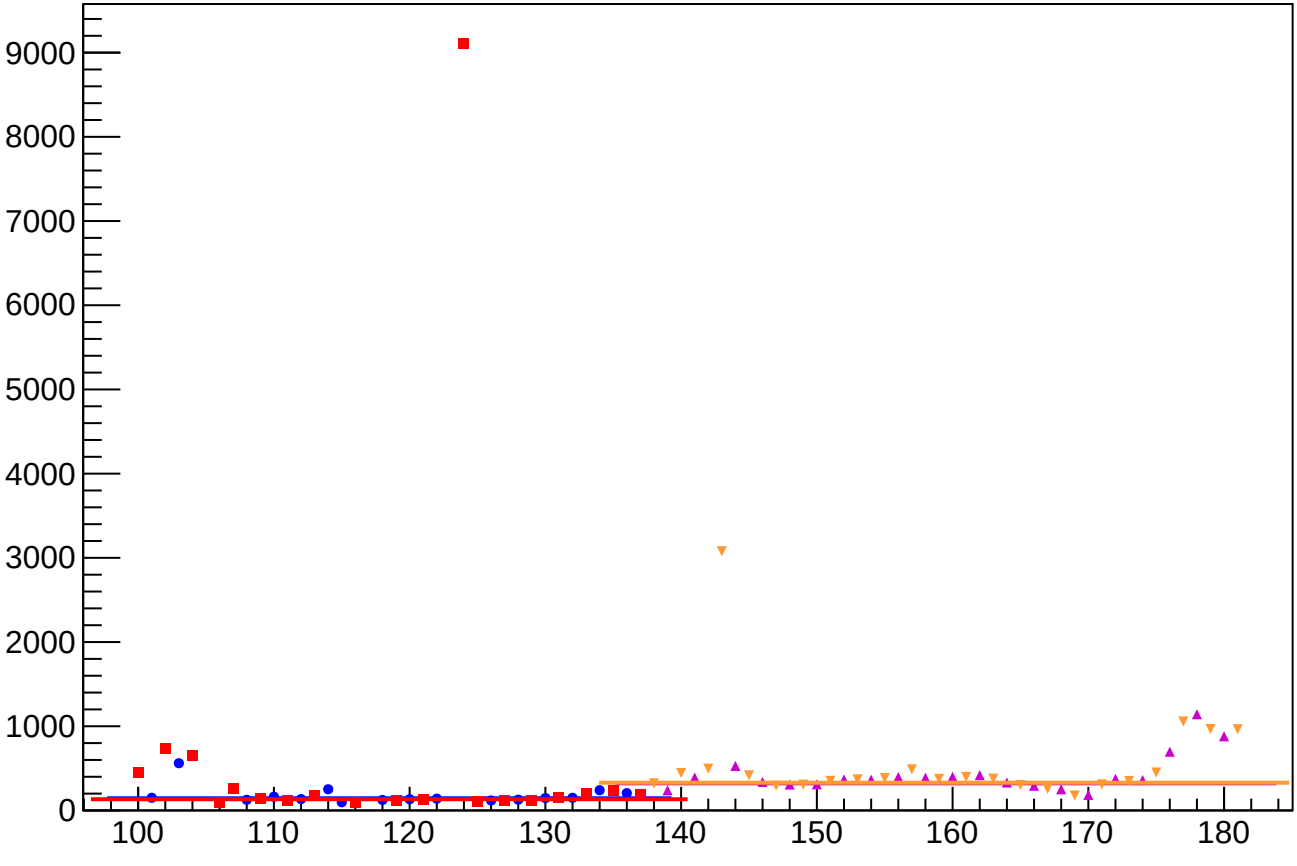
Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.037+/-0.048 $\chi^2$/NDF:44.8/36

Out: -0.011+/-0.047 $\chi^2$/NDF:54.0/41

All: -0.024+/-0.033 $\chi^2$/NDF: 98.9/78

# asym_atl_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 144.291+/-0.041 $\chi^2$/NDF: 1128779.2/15

Left Out: 329.648+/-0.061 $\chi^2$/NDF:5478041.0/22

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220645.6/18

Left In: 322.133+/-0.059 $\chi^2$/NDF:3762964.5/20

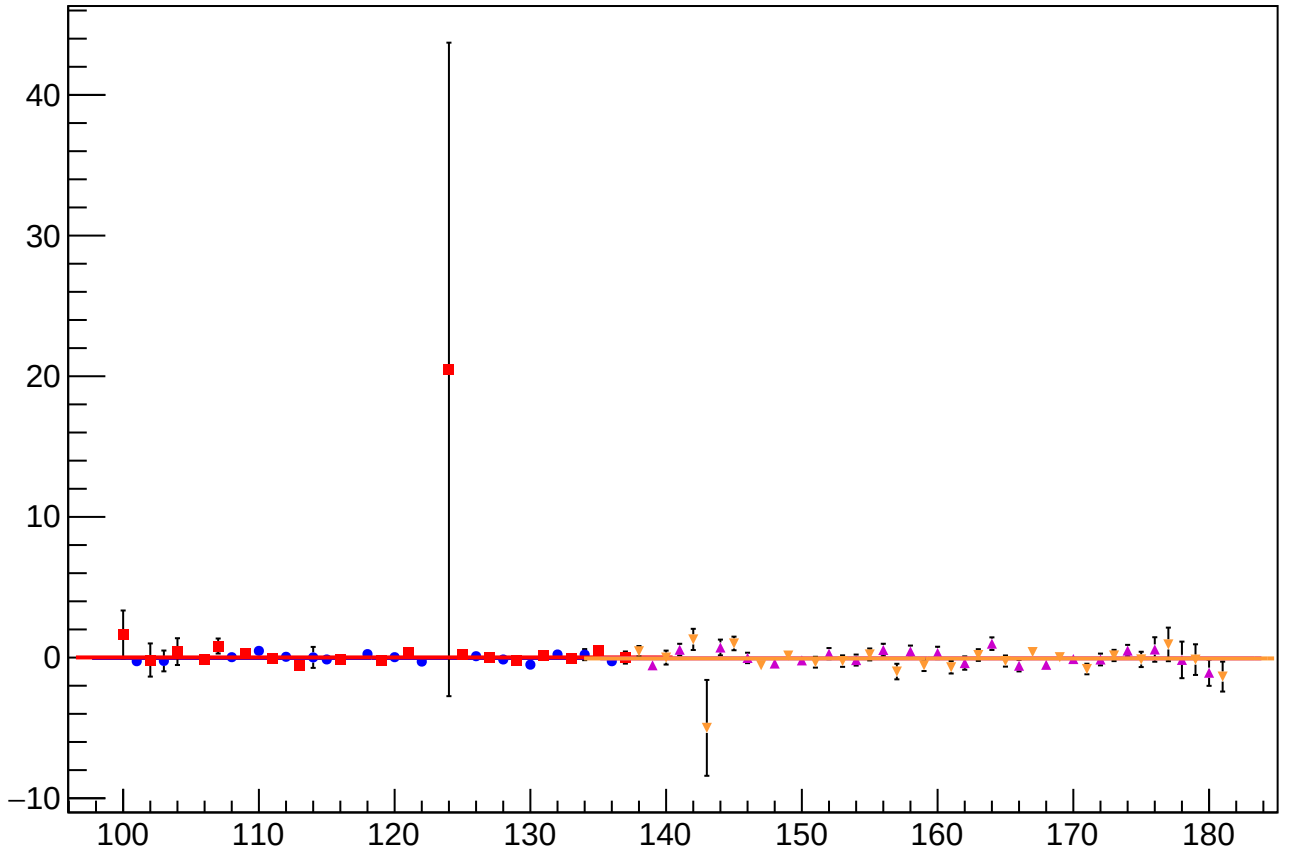
Left: 325.808+/-0.042 $\chi^2$/NDF: 9248888.5/43

Right: 138.645+/-0.029 $\chi^2$/NDF: 3386693.8/34

In: 201.747+/-0.034 $\chi^2$/NDF:11003051.6/36

Out: 192.895+/-0.033 $\chi^2$/NDF:15034273.3/41

All: 197.282+/-0.024 $\chi^2$/NDF: 26072241.5/78




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: -0.060+/-0.086 $\chi^2$/NDF:31.7/22

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.054+/-0.084 $\chi^2$/NDF:27.5/20

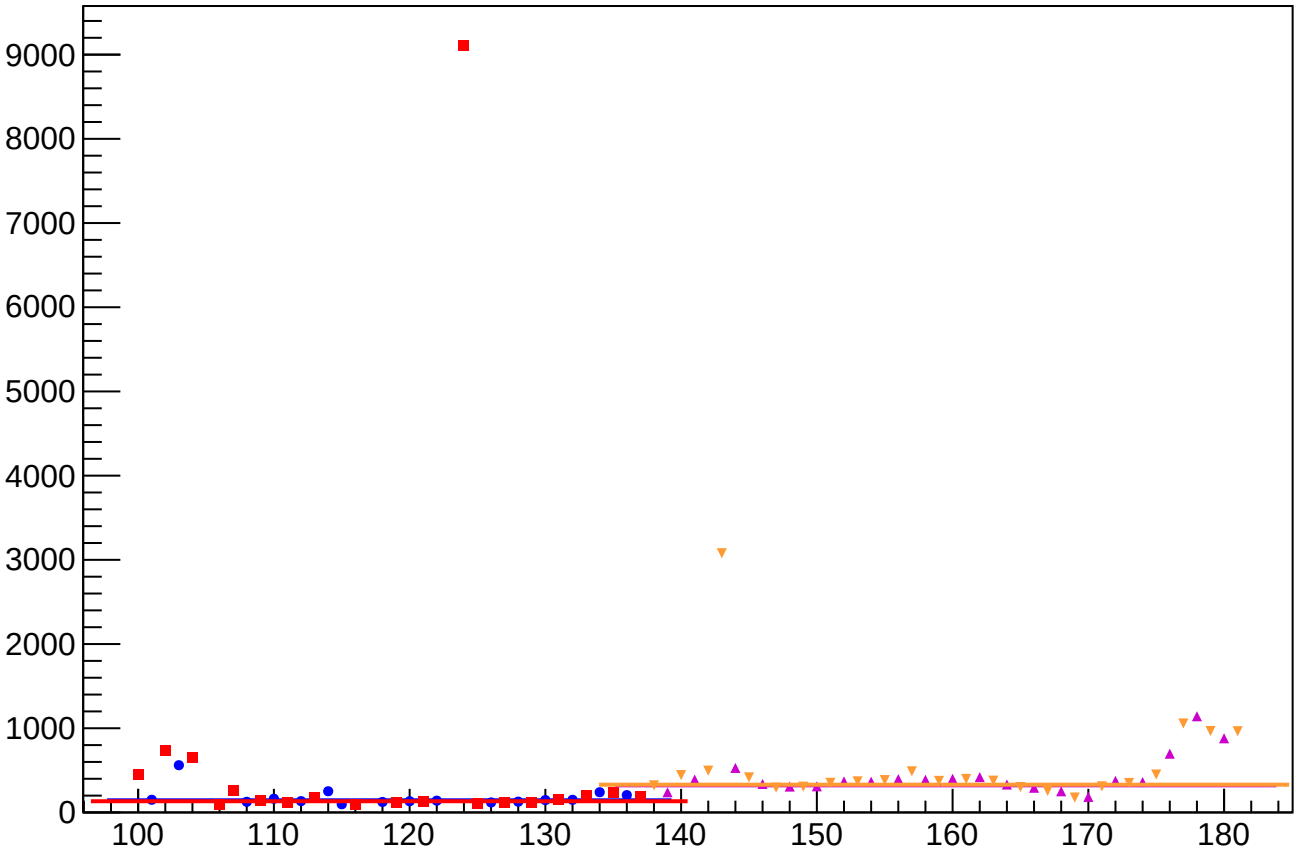
Left: -0.057+/-0.060 $\chi^2$/NDF: 59.2/43

Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.037+/-0.048 $\chi^2$/NDF:44.8/36

Out: -0.011+/-0.047 $\chi^2$/NDF:54.0/41

All: -0.024+/-0.033 $\chi^2$/NDF: 98.9/78




Right In: 144.291+/-0.041 $\chi^2$/NDF: 1128779.2/15

Left Out: 329.648+/-0.061 $\chi^2$/NDF:5478041.0/22

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220645.6/18

Left In: 322.133+/-0.059 $\chi^2$/NDF:3762964.5/20

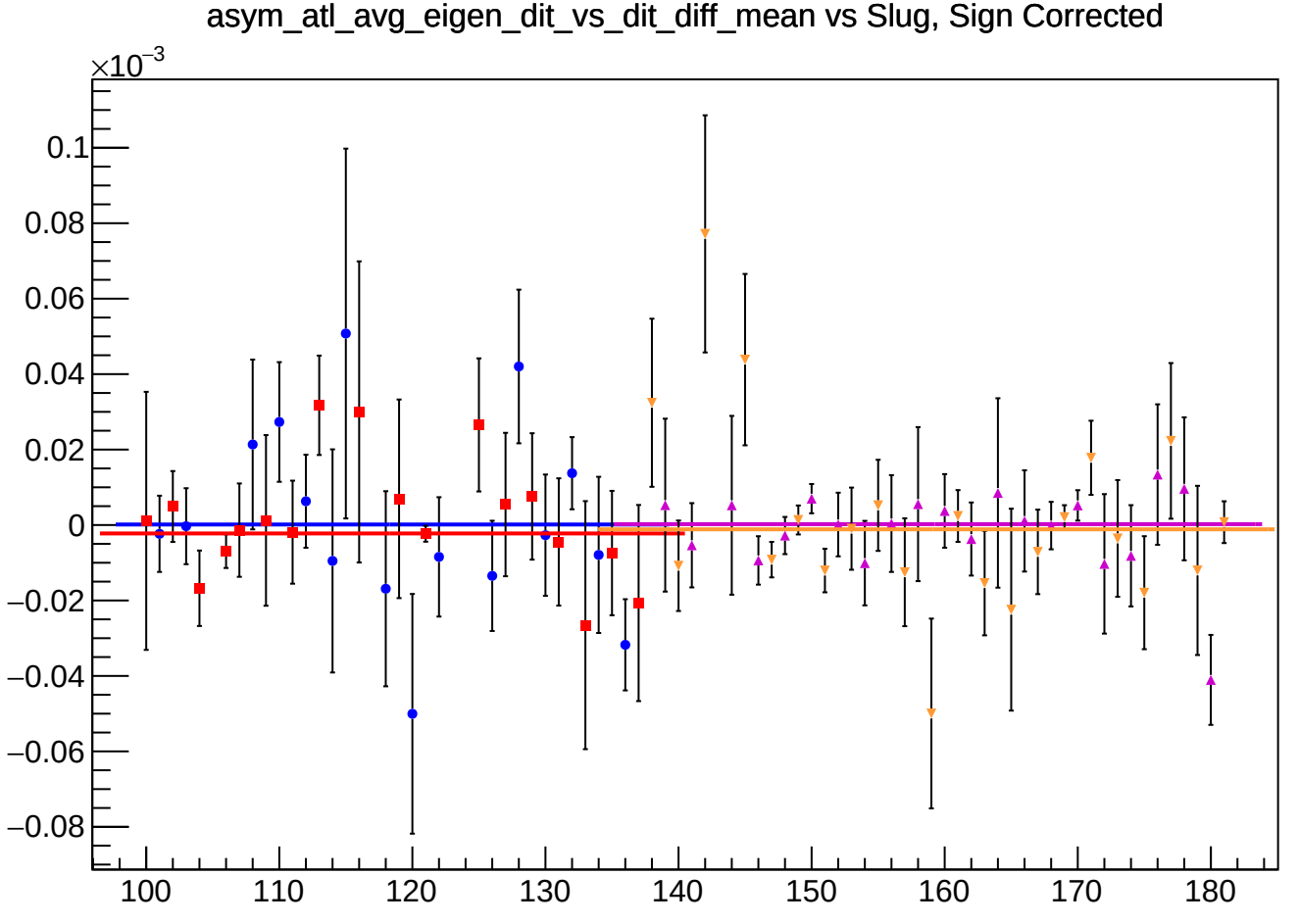
Left: 325.808+/-0.042 $\chi^2$/NDF: 9248888.5/43

Right: 138.645+/-0.029 $\chi^2$/NDF: 3386693.8/34

In: 201.747+/-0.034 $\chi^2$/NDF:11003051.6/36

Out: 192.895+/-0.033 $\chi^2$/NDF:15034273.3/41

All: 197.282+/-0.024 $\chi^2$/NDF: 26072241.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:34.6/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:22.3/20

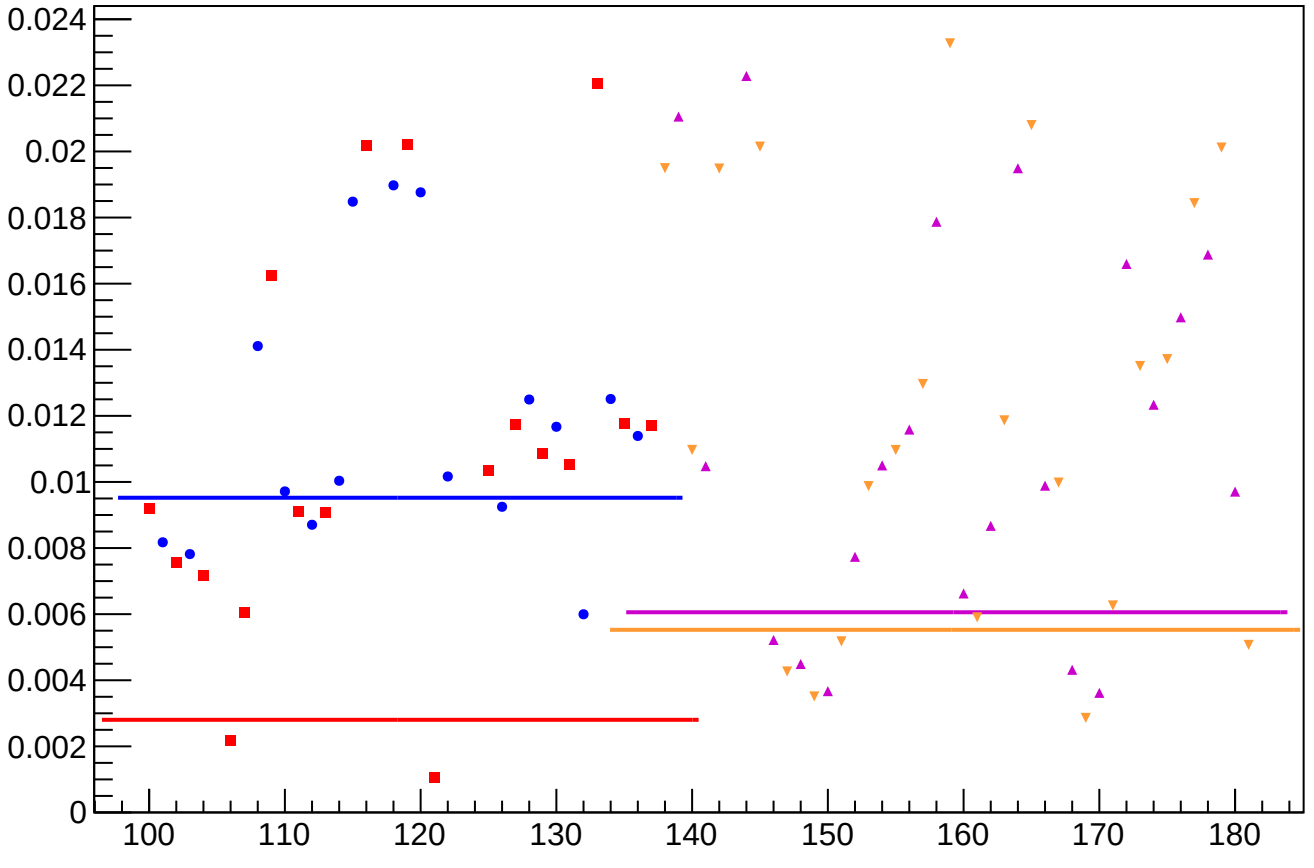
Left: -0.000+/-0.000 $\chi^2$/NDF: 57.2/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 38.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:45.1/36

Out: -0.000+/-0.000 $\chi^2$/NDF:50.4/39

All: -0.000+/-0.000 $\chi^2$/NDF: 96.3/76




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1132946.4/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:10962845.8/21

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 8568874.3/17

Left In: 0.006+/-0.000 $\chi^2$/NDF:8697817.8/20

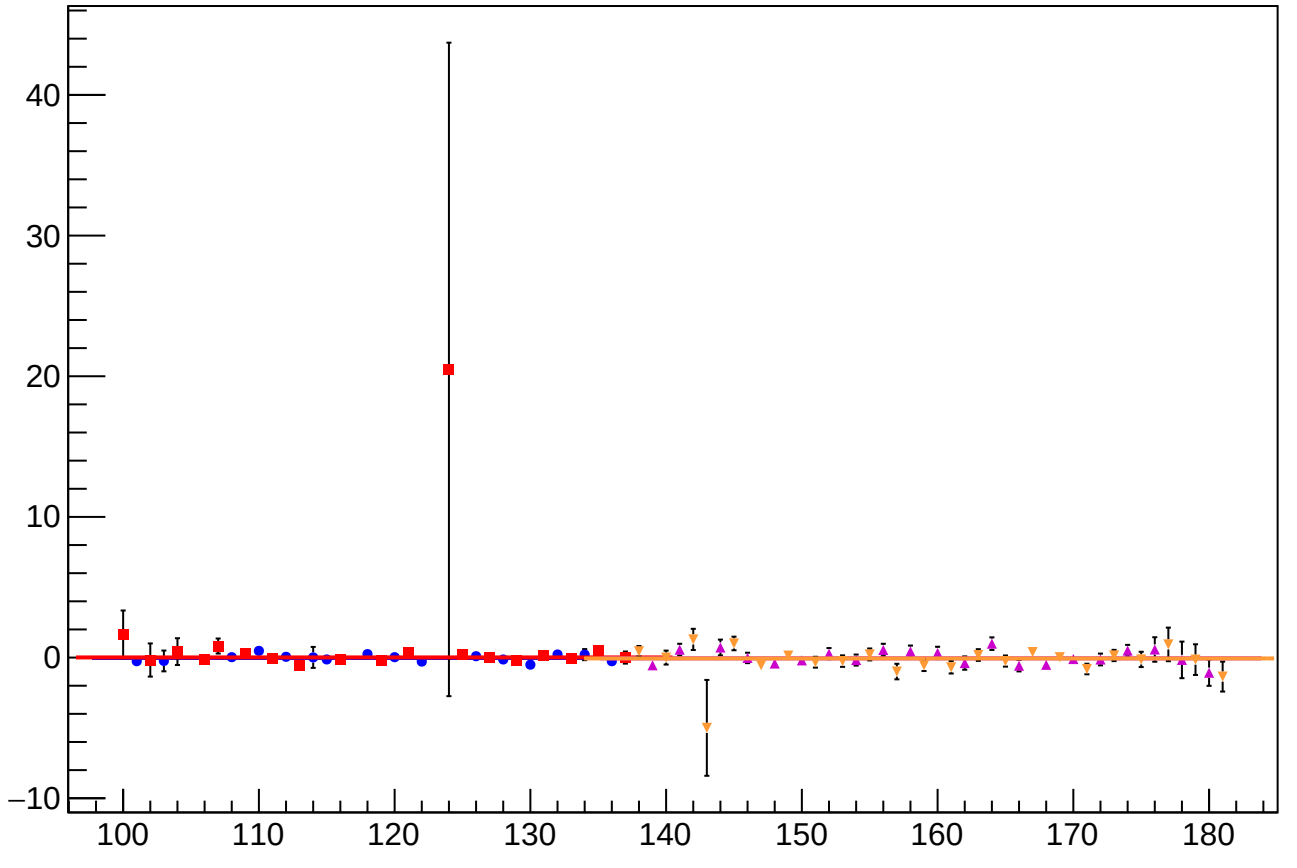
Left: 0.006+/-0.000 $\chi^2$/NDF: 19755604.6/42

Right: 0.004+/-0.000 $\chi^2$/NDF: 15020072.2/33

In: 0.007+/-0.000 $\chi^2$/NDF:11223164.2/36

Out: 0.004+/-0.000 $\chi^2$/NDF:22141871.9/39

All: 0.005+/-0.000 $\chi^2$/NDF: 36422372.0/76




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: -0.060+/-0.086 $\chi^2$/NDF:31.7/22

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.054+/-0.084 $\chi^2$/NDF:27.5/20

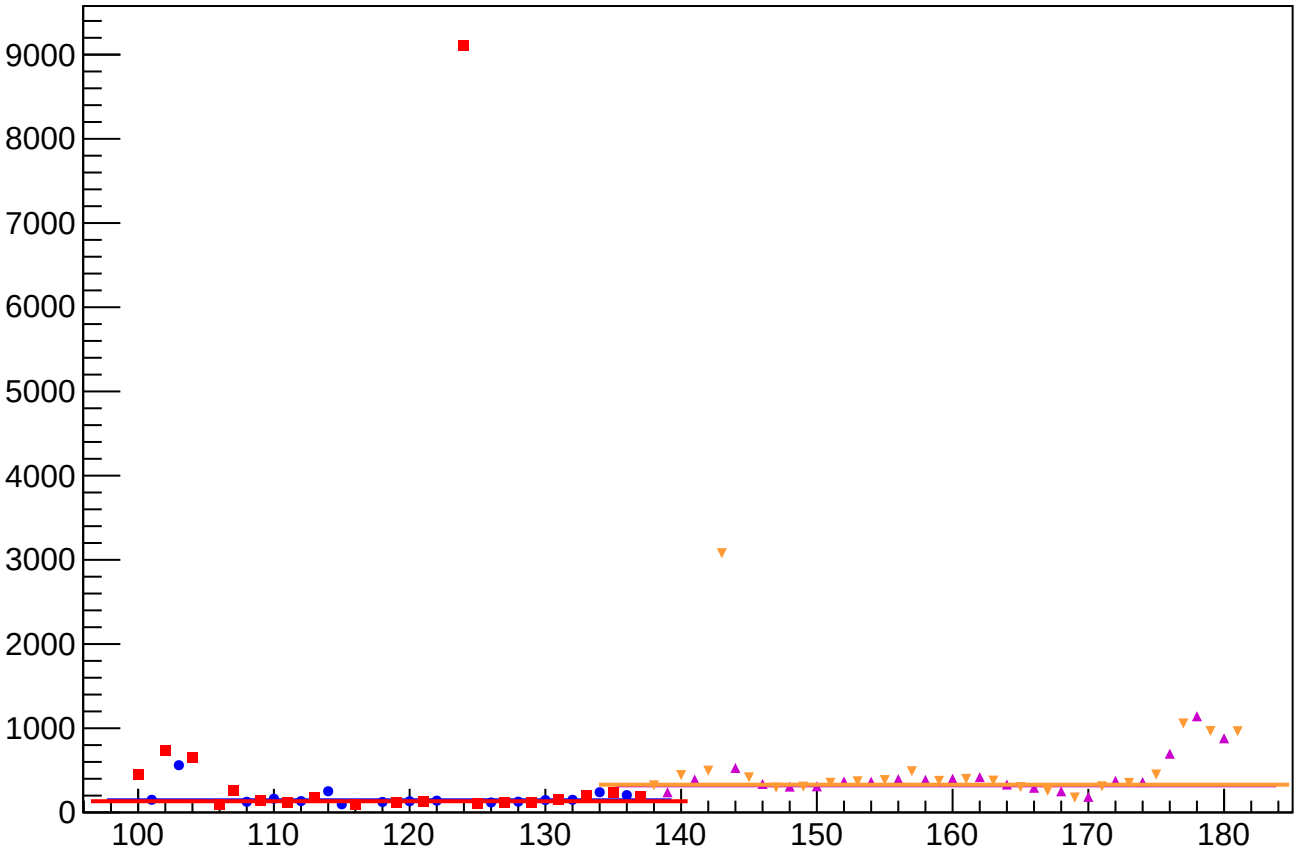
Left: -0.057+/-0.060 $\chi^2$/NDF: 59.2/43

Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.037+/-0.048 $\chi^2$/NDF:44.8/36

Out: -0.011+/-0.047 $\chi^2$/NDF:54.0/41

All: -0.024+/-0.033 $\chi^2$/NDF: 98.9/78




Right In: 144.289+/-0.041 $\chi^2$/NDF: 1128804.3/15

Left Out: 329.650+/-0.061 $\chi^2$/NDF:5478104.2/22

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220606.0/18

Left In: 322.136+/-0.059 $\chi^2$/NDF:3762971.8/20

Left: 325.810+/-0.042 $\chi^2$/NDF: 9248957.2/43

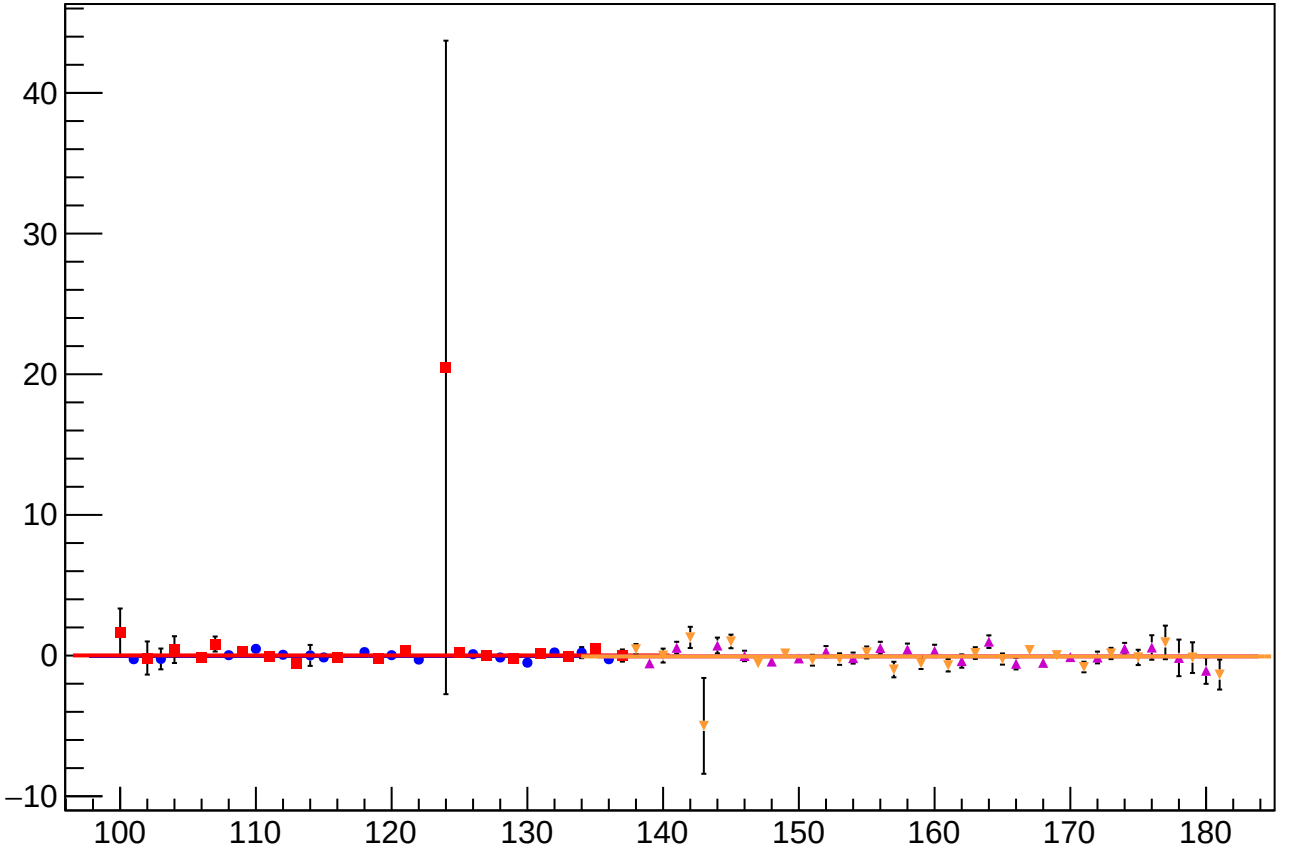
Right: 138.644+/-0.029 $\chi^2$/NDF: 3386673.9/34

In: 201.745+/-0.034 $\chi^2$/NDF:11003338.2/36

Out: 192.895+/-0.033 $\chi^2$/NDF:15034452.4/41

All: 197.280+/-0.024 $\chi^2$/NDF: 26072703.0/78

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: -0.060+/-0.086 $\chi^2$/NDF:31.7/22

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.054+/-0.084 $\chi^2$/NDF:27.5/20

Left: -0.057+/-0.060 $\chi^2$/NDF: 59.2/43

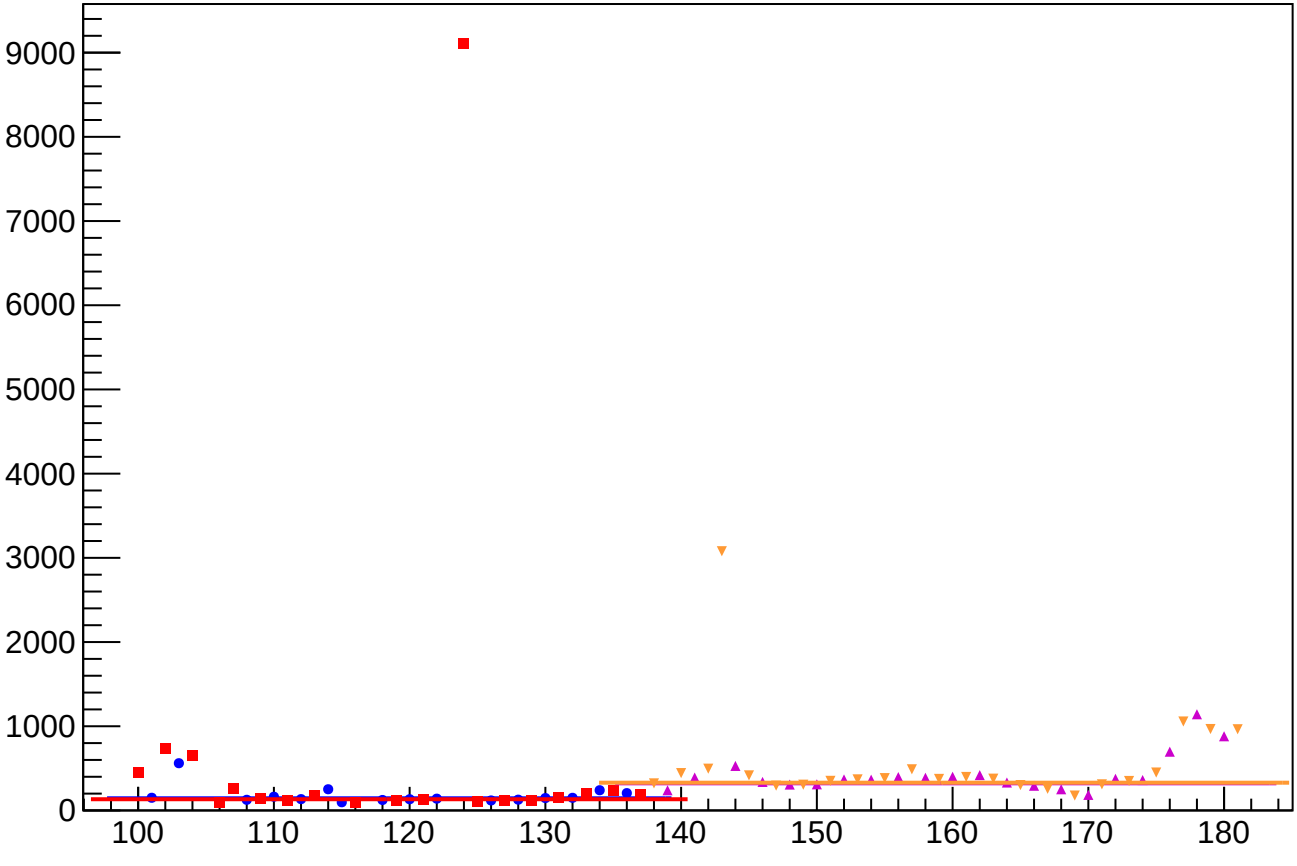
Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.037+/-0.048 $\chi^2$/NDF:44.8/36

Out: -0.011+/-0.047 $\chi^2$/NDF:54.0/41

All: -0.024+/-0.033 $\chi^2$/NDF: 98.9/78

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 144.289+/-0.041 $\chi^2$/NDF: 1128804.3/15

Left Out: 329.650+/-0.061 $\chi^2$/NDF:5478104.2/22

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220606.0/18

Left In: 322.136+/-0.059 $\chi^2$/NDF:3762971.8/20

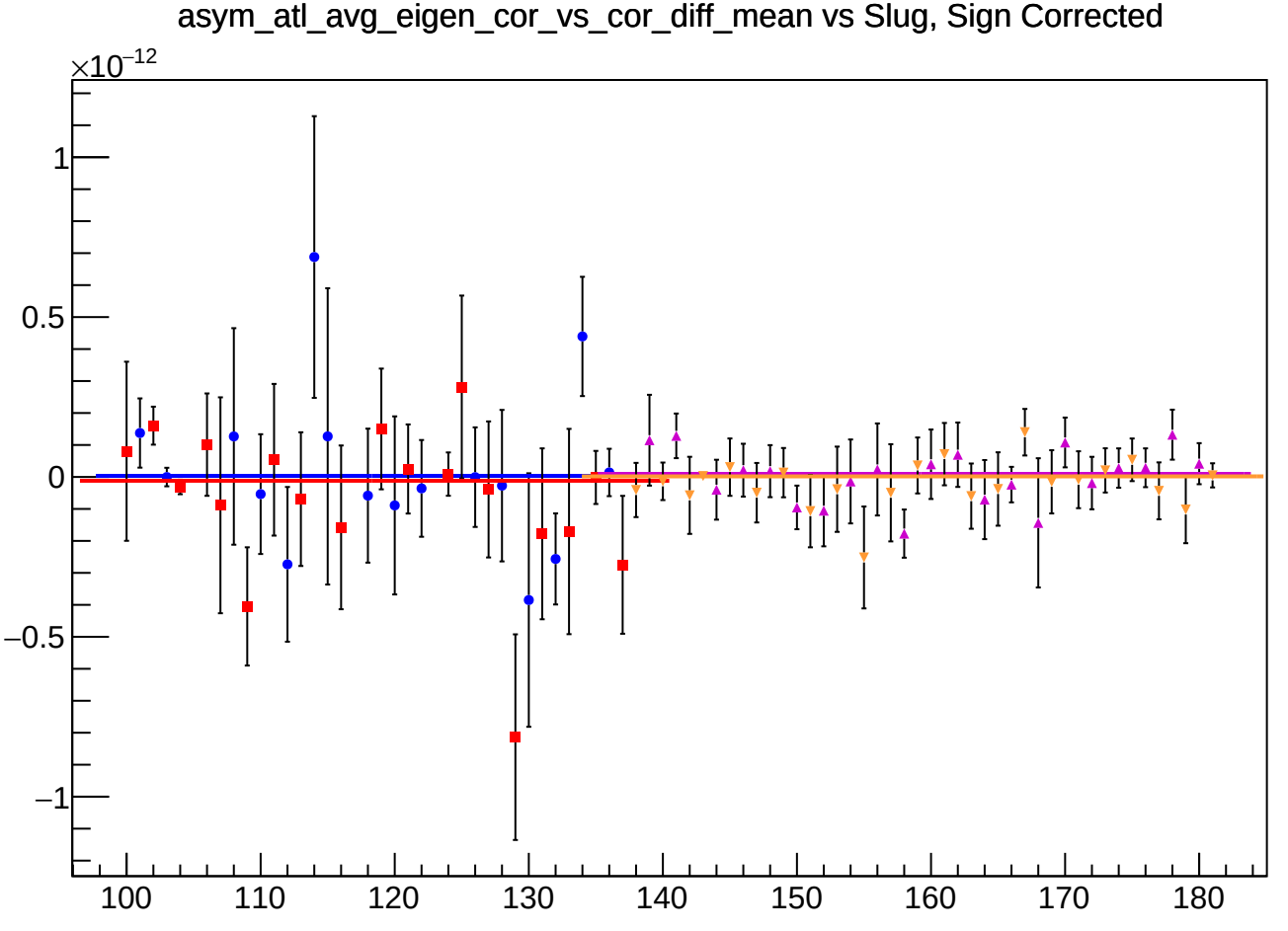
Left: 325.810+/-0.042 $\chi^2$/NDF: 9248957.2/43

Right: 138.644+/-0.029 $\chi^2$/NDF: 3386673.9/34

In: 201.745+/-0.034 $\chi^2$/NDF:11003338.2/36

Out: 192.895+/-0.033 $\chi^2$/NDF:15034452.4/41

All: 197.280+/-0.024 $\chi^2$/NDF: 26072703.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.8/20

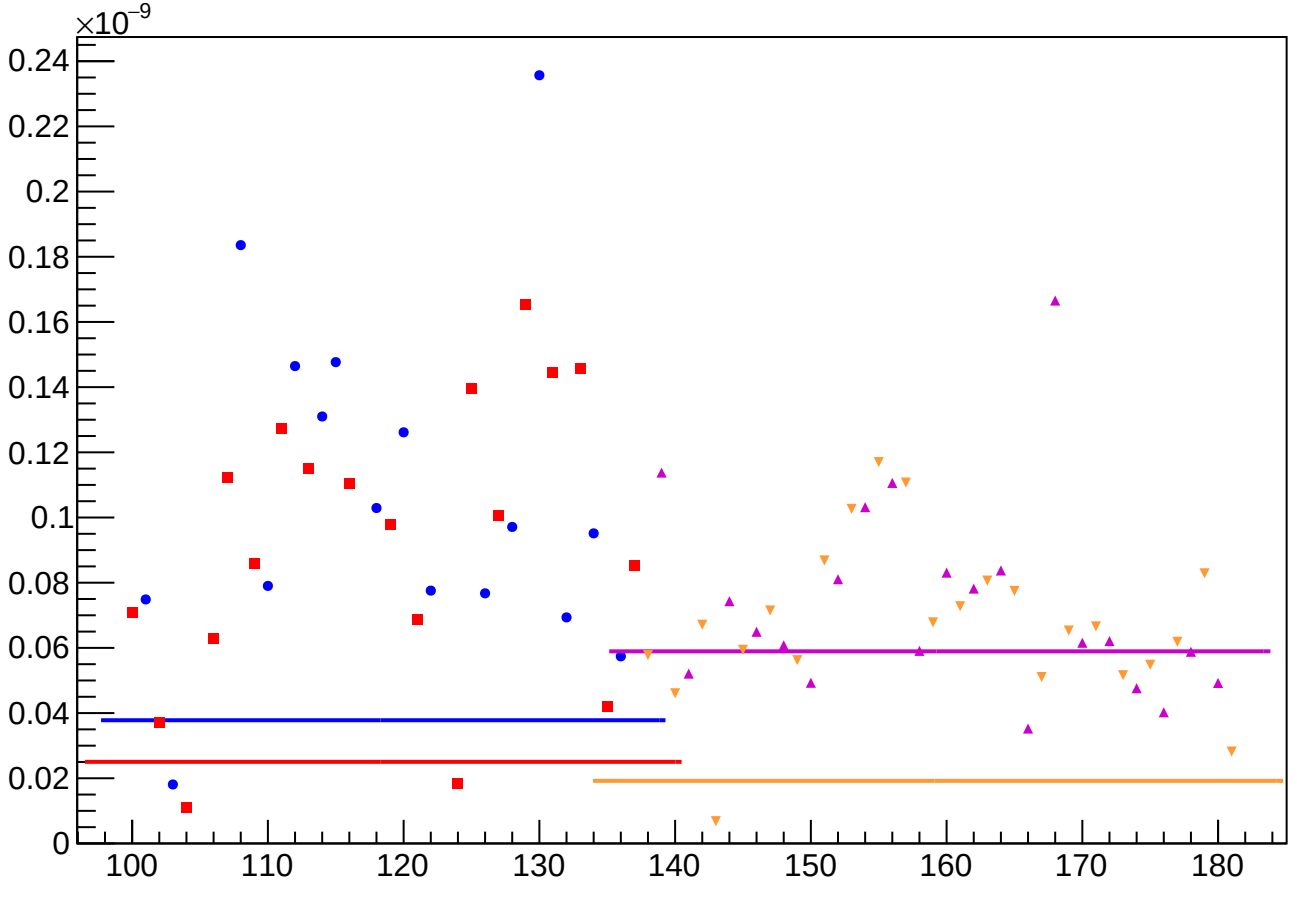
Left: 0.000+/-0.000 $\chi^2$/NDF: 31.3/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:35.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:36.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 72.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3942675.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14815386.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4701757.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2478568.7/20

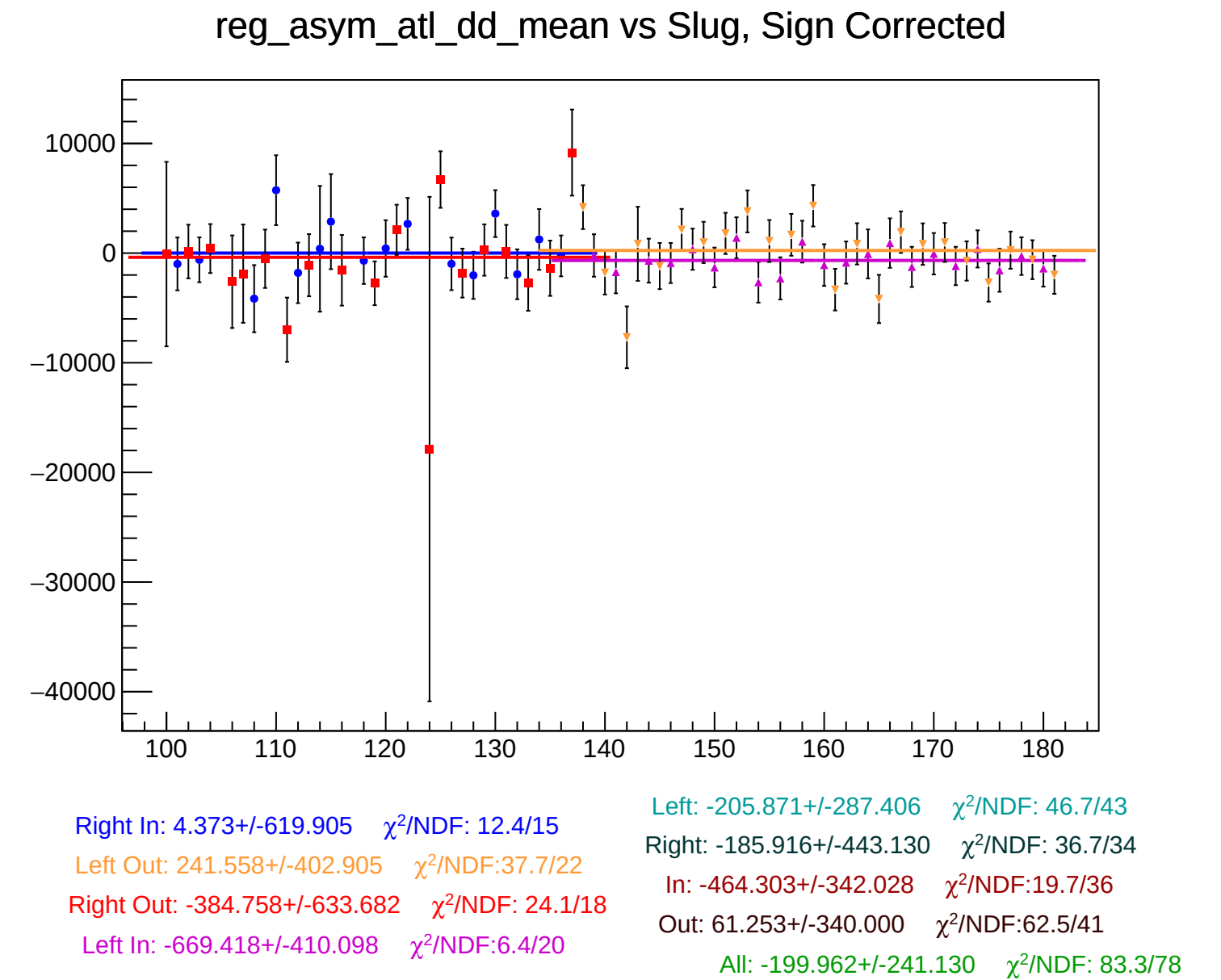
Left: 0.000+/-0.000 $\chi^2$/NDF: 25218192.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 8999957.7/34

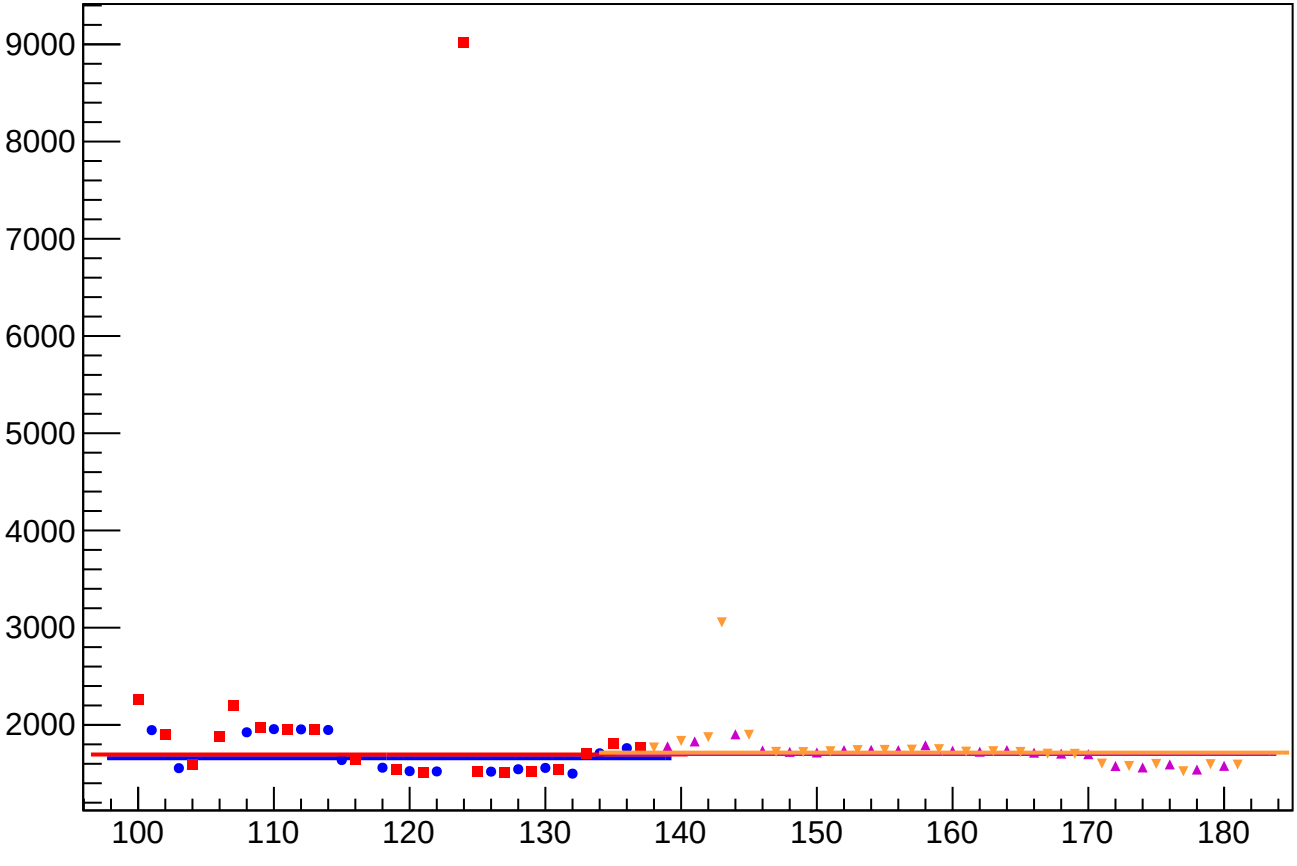
In: 0.000+/-0.000 $\chi^2$/NDF:7420244.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:19679096.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 34286662.8/78


reg_asym_atl_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
160
170
180
Right In: 4.373+/-619.905 χ²/NDF: 12.4/15
Left Out: 241.558+/-402.905 χ²/NDF:37.7/22
Right Out: -384.758+/-633.682 χ²/NDF: 24.1/18
Left In: -669.418+/-410.098 χ²/NDF:6.4/20
Left: -205.871+/-287.406 χ²/NDF: 46.7/43
Right: -185.916+/-443.130 χ²/NDF: 36.7/34
In: -464.303+/-342.028 χ²/NDF:19.7/36
Out: 61.253+/-340.000 χ²/NDF:62.5/41
All: -199.962+/-241.130 χ²/NDF: 83.3/78

# reg_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.4/15

Left Out: 1715.000+/-0.285 $\chi^2$/NDF:420073.4/22

Right Out: 1695.649+/-0.446 $\chi^2$/NDF: 386216.2/18

Left In: 1700.902+/-0.290 $\chi^2$/NDF:99837.9/20

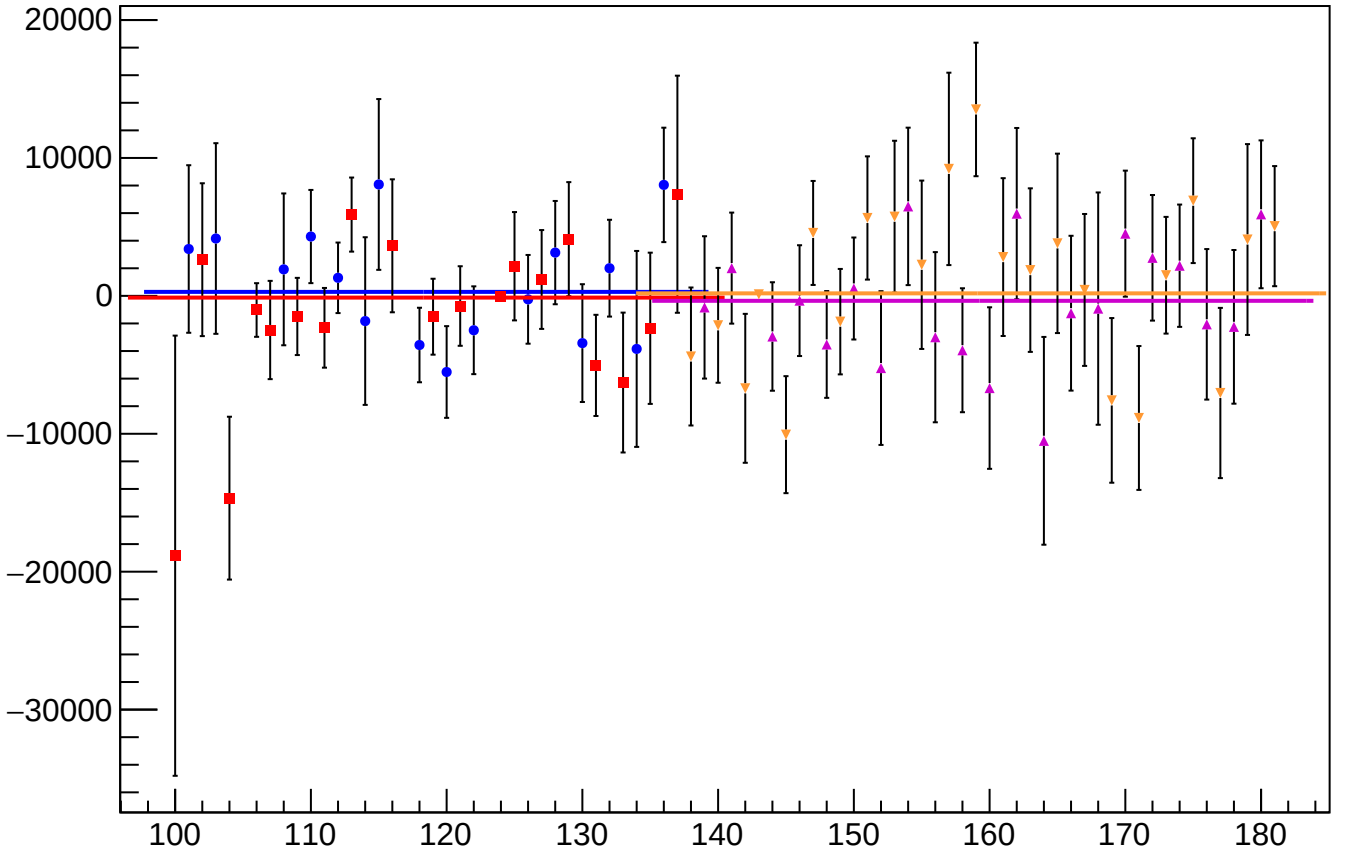
Left: 1708.076+/-0.203 $\chi^2$/NDF: 521114.1/43

Right: 1676.049+/-0.313 $\chi^2$/NDF: 533994.7/34

In: 1687.573+/-0.242 $\chi^2$/NDF:250759.9/36

Out: 1709.392+/-0.240 $\chi^2$/NDF:807626.5/41

All: 1698.562+/-0.170 $\chi^2$/NDF: 1062485.6/78




Right In: 289.262+/-961.071 $\chi^2$/NDF: 15.2/15

Left Out: 181.671+/-344.488 $\chi^2$/NDF:32.7/22

Right Out: -125.586+/-323.715 $\chi^2$/NDF: 20.8/18

Left In: -359.093+/-1071.840 $\chi^2$/NDF:12.1/20

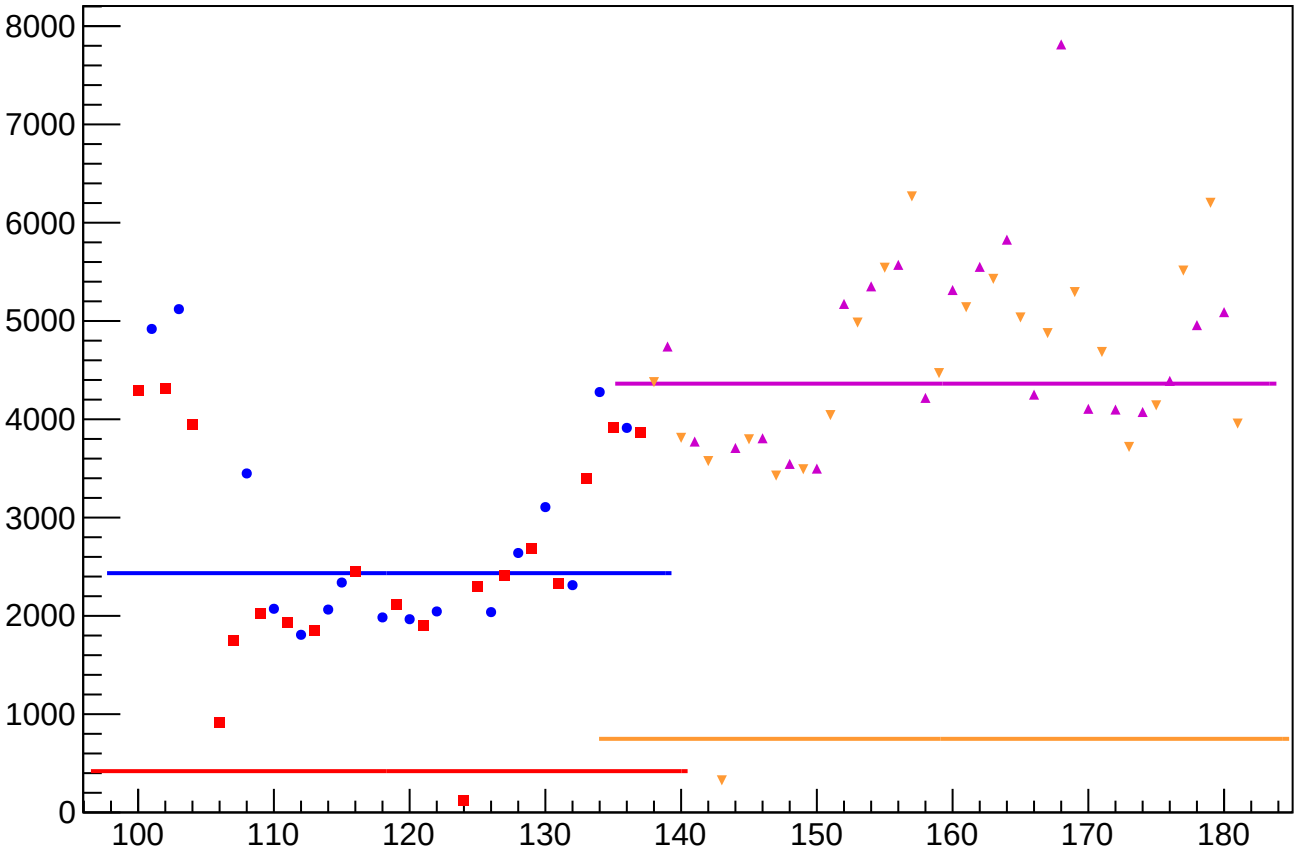
Left: 131.041+/-327.966 $\chi^2$/NDF: 45.0/43

Right: -83.316+/-306.780 $\chi^2$/NDF: 36.2/34

In: 0.307+/-715.547 $\chi^2$/NDF:27.5/36

Out: 18.500+/-235.903 $\chi^2$/NDF:54.0/41

All: 16.716+/-224.042 $\chi^2$/NDF: 81.5/78




Right In: 2434.593+/-0.680 $\chi^2$/NDF: 1457721.5/15

Left Out: 749.003+/-0.244 $\chi^2$/NDF:26721252.6/22

Right Out: 420.292+/-0.229 $\chi^2$/NDF: 11063973.9/18

Left In: 4362.478+/-0.758 $\chi^2$/NDF:1146160.3/20

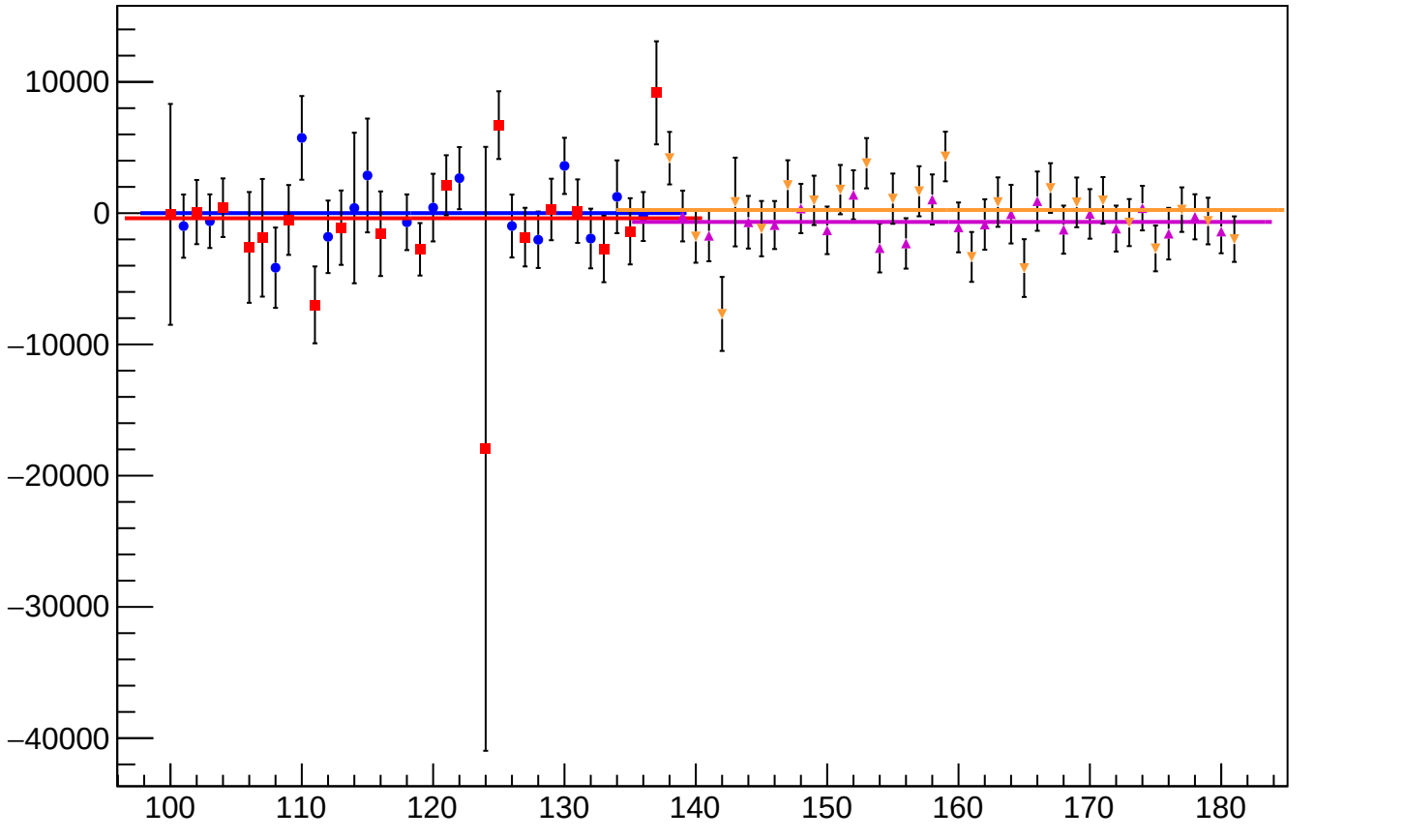
Left: 1087.319+/-0.232 $\chi^2$/NDF: 48470282.9/43

Right: 625.534+/-0.217 $\chi^2$/NDF: 20412045.5/34

In: 3293.800+/-0.506 $\chi^2$/NDF:6190607.4/36

Out: 574.438+/-0.167 $\chi^2$/NDF:38752284.0/41

All: 841.031+/-0.158 $\chi^2$/NDF: 70997063.0/78




Right In: 4.295+/-619.905 $\chi^2$/NDF: 12.4/15

Left Out: 241.542+/-402.905 $\chi^2$/NDF:37.7/22

Right Out: -389.054+/-633.688 $\chi^2$/NDF: 24.0/18

Left In: -669.341+/-410.098 $\chi^2$/NDF:6.4/20

Left: -205.841+/-287.406 $\chi^2$/NDF: 46.7/43

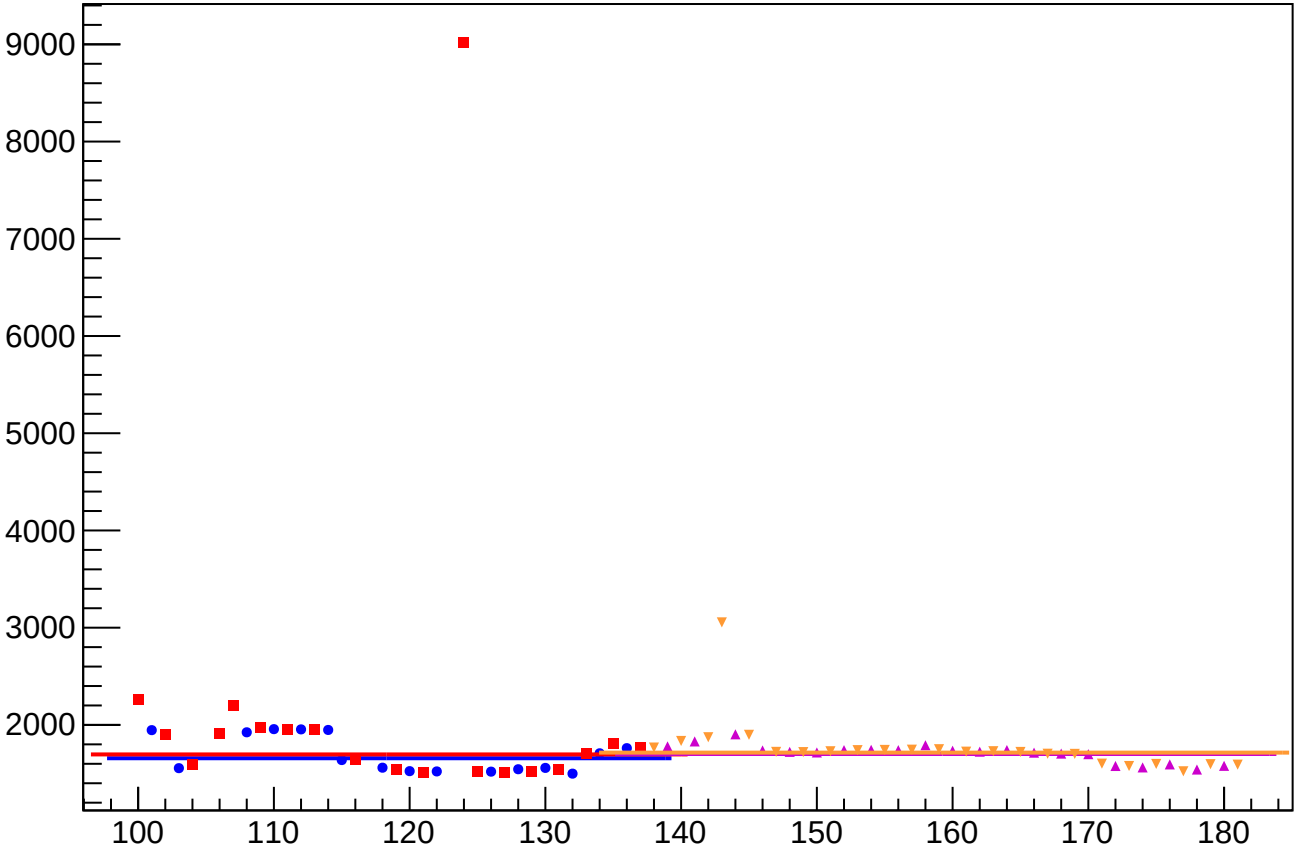
Right: -188.056+/-443.132 $\chi^2$/NDF: 36.7/34

In: -464.273+/-342.028 $\chi^2$/NDF:19.7/36

Out: 60.007+/-340.001 $\chi^2$/NDF:62.5/41

All: -200.574+/-241.130 $\chi^2$/NDF: 83.3/78

# cor_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.5/15

Left Out: 1715.000+/-0.285 $\chi^2$/NDF:420073.4/22

Right Out: 1696.442+/-0.446 $\chi^2$/NDF: 387974.4/18

Left In: 1700.902+/-0.290 $\chi^2$/NDF:99837.9/20

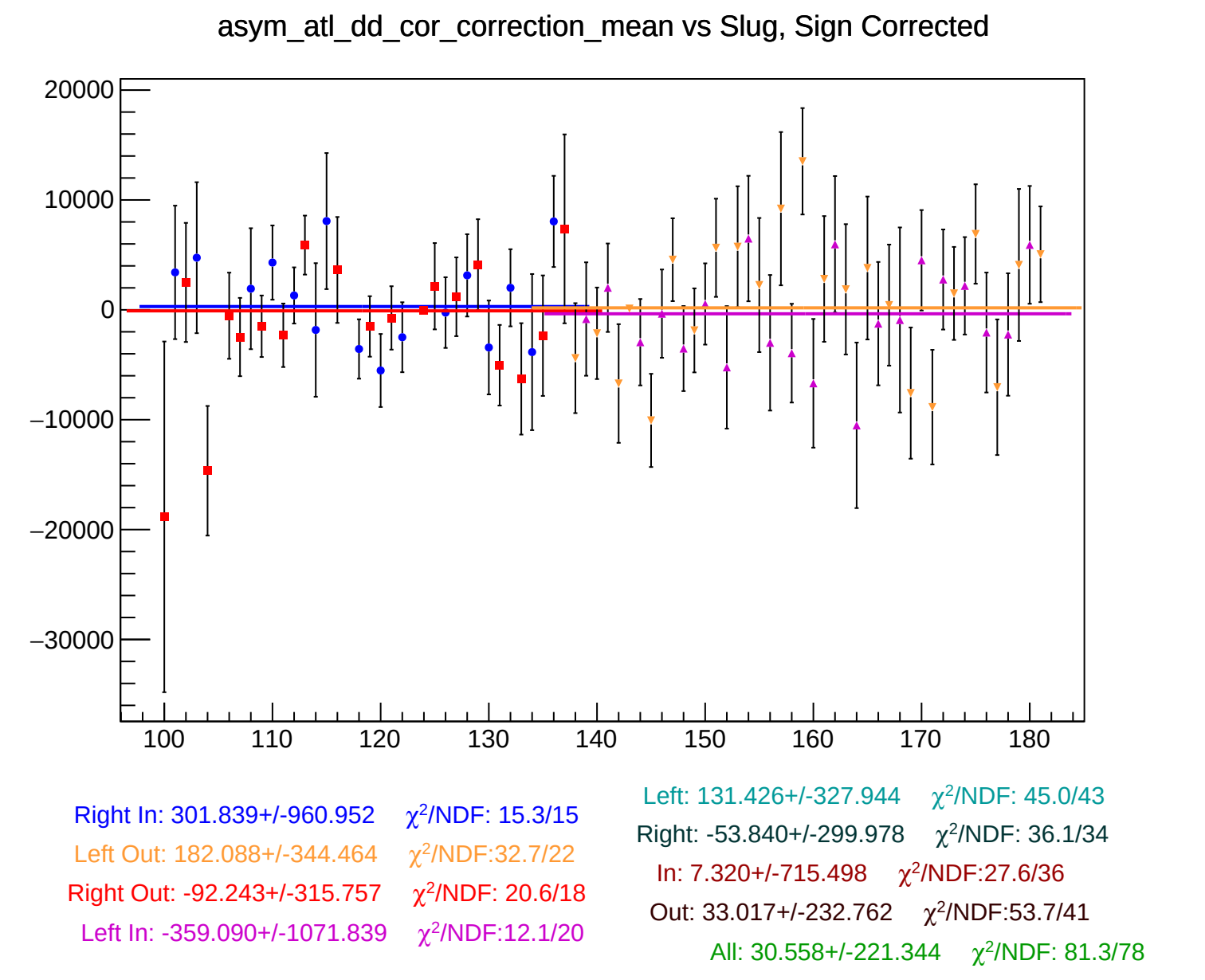
Left: 1708.076+/-0.203 $\chi^2$/NDF: 521114.1/43

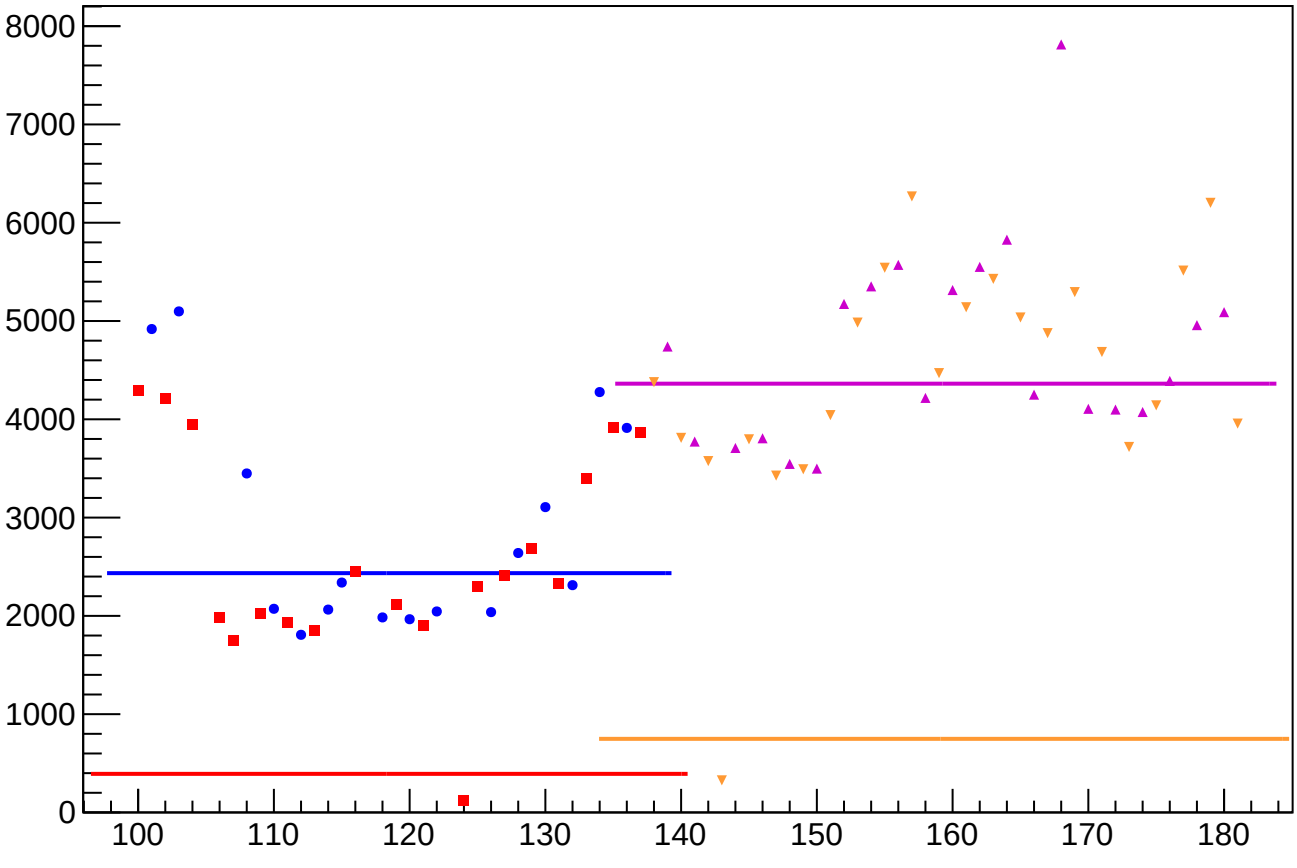
Right: 1676.430+/-0.313 $\chi^2$/NDF: 535909.0/34

In: 1687.573+/-0.242 $\chi^2$/NDF:250760.0/36

Out: 1709.626+/-0.240 $\chi^2$/NDF:809276.5/41

All: 1698.678+/-0.170 $\chi^2$/NDF: 1064223.4/78


asym_atl_dd_cor_correction_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: 301.839+/-960.952 χ²/NDF: 15.3/15
Left Out: 182.088+/-344.464 χ²/NDF:32.7/22
Right Out: -92.243+/-315.757 χ²/NDF: 20.6/18
Left In: -359.090+/-1071.839 χ²/NDF:12.1/20
Left: 131.426+/-327.944 χ²/NDF: 45.0/43
Right: -53.840+/-299.978 χ²/NDF: 36.1/34
In: 7.320+/-715.498 χ²/NDF:27.6/36
Out: 33.017+/-232.762 χ²/NDF:53.7/41
All: 30.558+/-221.344 χ²/NDF: 81.3/78




Right In: 2434.758+/-0.679 $\chi^2$/NDF: 1456027.7/15

Left Out: 748.917+/-0.244 $\chi^2$/NDF:26722041.9/22

Right Out: 392.666+/-0.223 $\chi^2$/NDF: 11408006.3/18

Left In: 4362.473+/-0.758 $\chi^2$/NDF:1146152.4/20

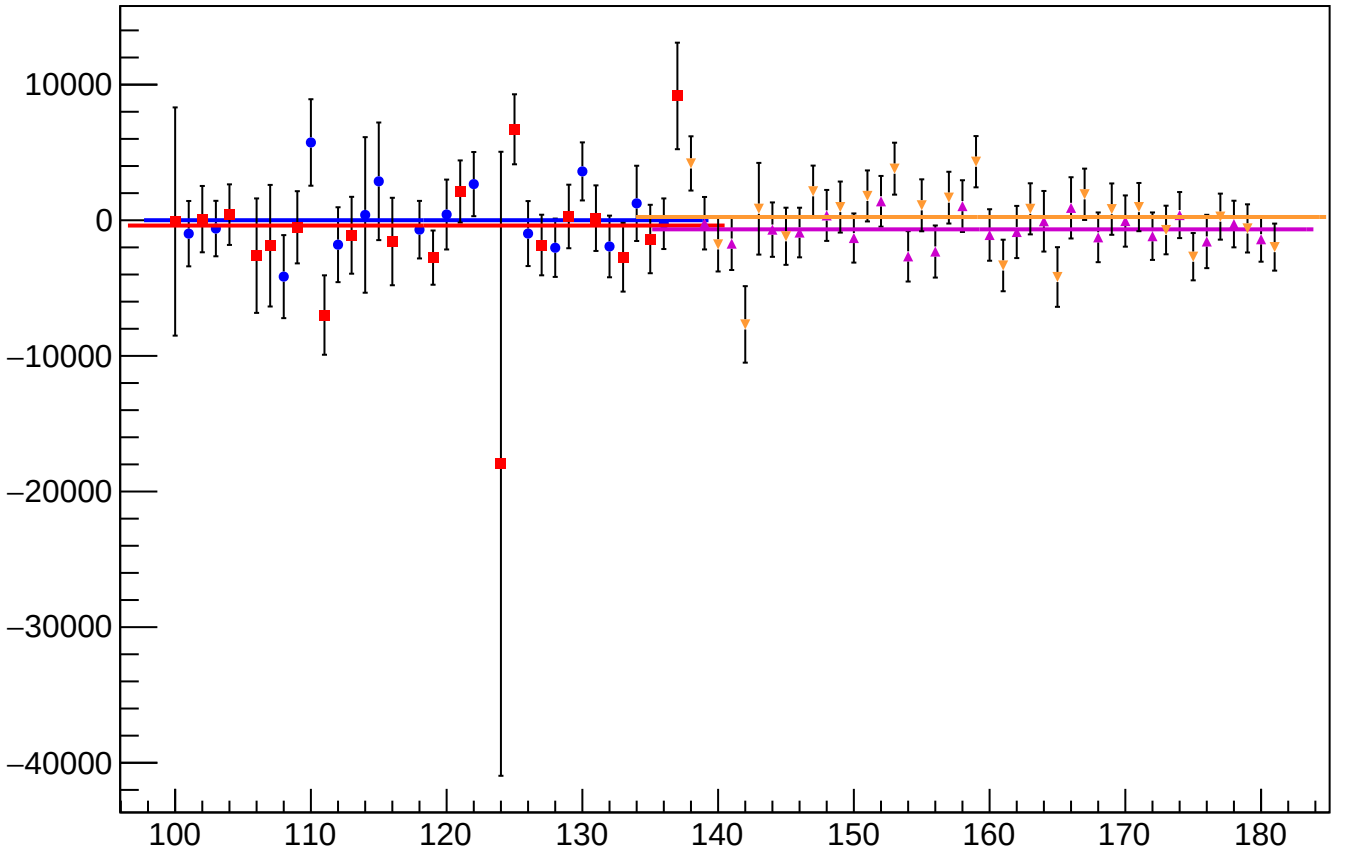
Left: 1087.198+/-0.232 $\chi^2$/NDF: 48472305.8/43

Right: 591.664+/-0.212 $\chi^2$/NDF: 21015754.2/34

In: 3293.773+/-0.506 $\chi^2$/NDF:6188672.1/36

Out: 555.331+/-0.165 $\chi^2$/NDF:39292500.1/41

All: 817.405+/-0.157 $\chi^2$/NDF: 71974241.9/78




Right In: 4.295+/-619.905 $\chi^2$/NDF: 12.4/15

Left Out: 241.542+/-402.905 $\chi^2$/NDF:37.7/22

Right Out: -389.054+/-633.688 $\chi^2$/NDF: 24.0/18

Left In: -669.341+/-410.098 $\chi^2$/NDF:6.4/20

Left: -205.841+/-287.406 $\chi^2$/NDF: 46.7/43

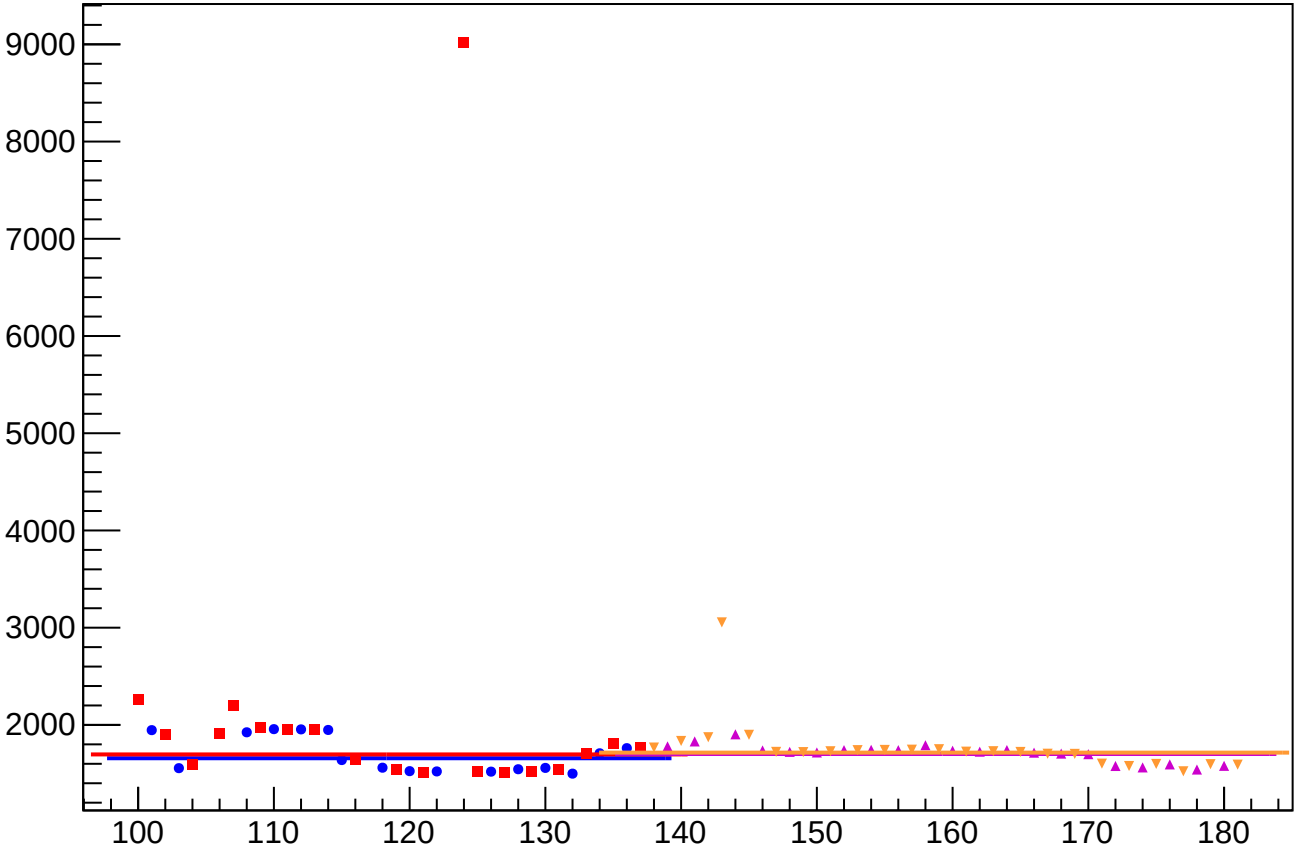
Right: -188.056+/-443.132 $\chi^2$/NDF: 36.7/34

In: -464.273+/-342.028 $\chi^2$/NDF:19.7/36

Out: 60.007+/-340.001 $\chi^2$/NDF:62.5/41

All: -200.574+/-241.130 $\chi^2$/NDF: 83.3/78

# eigen_cor_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.5/15

Left Out: 1715.000+/-0.285 $\chi^2$/NDF:420073.4/22

Right Out: 1696.442+/-0.446 $\chi^2$/NDF: 387974.4/18

Left In: 1700.902+/-0.290 $\chi^2$/NDF:99837.9/20

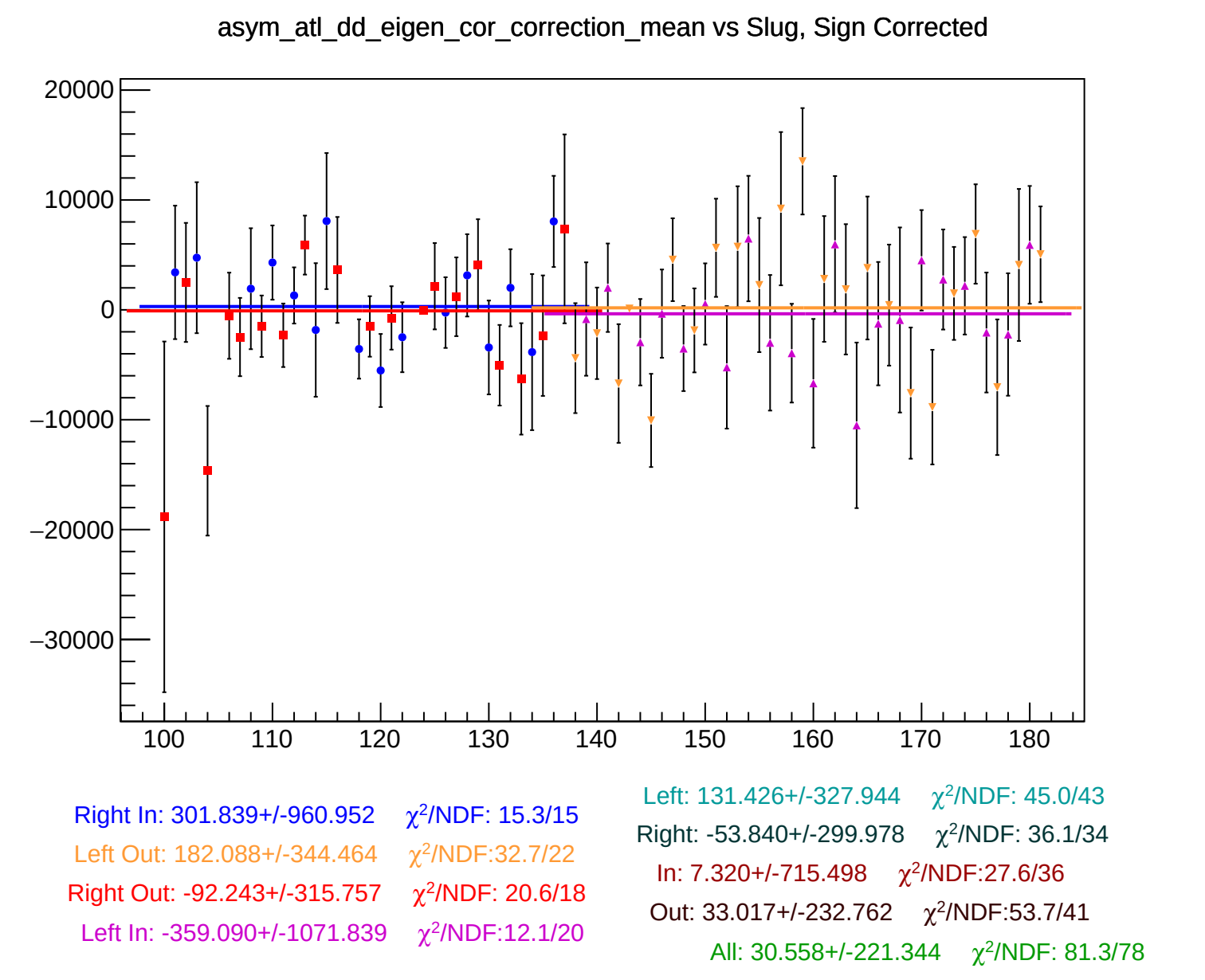
Left: 1708.076+/-0.203 $\chi^2$/NDF: 521114.1/43

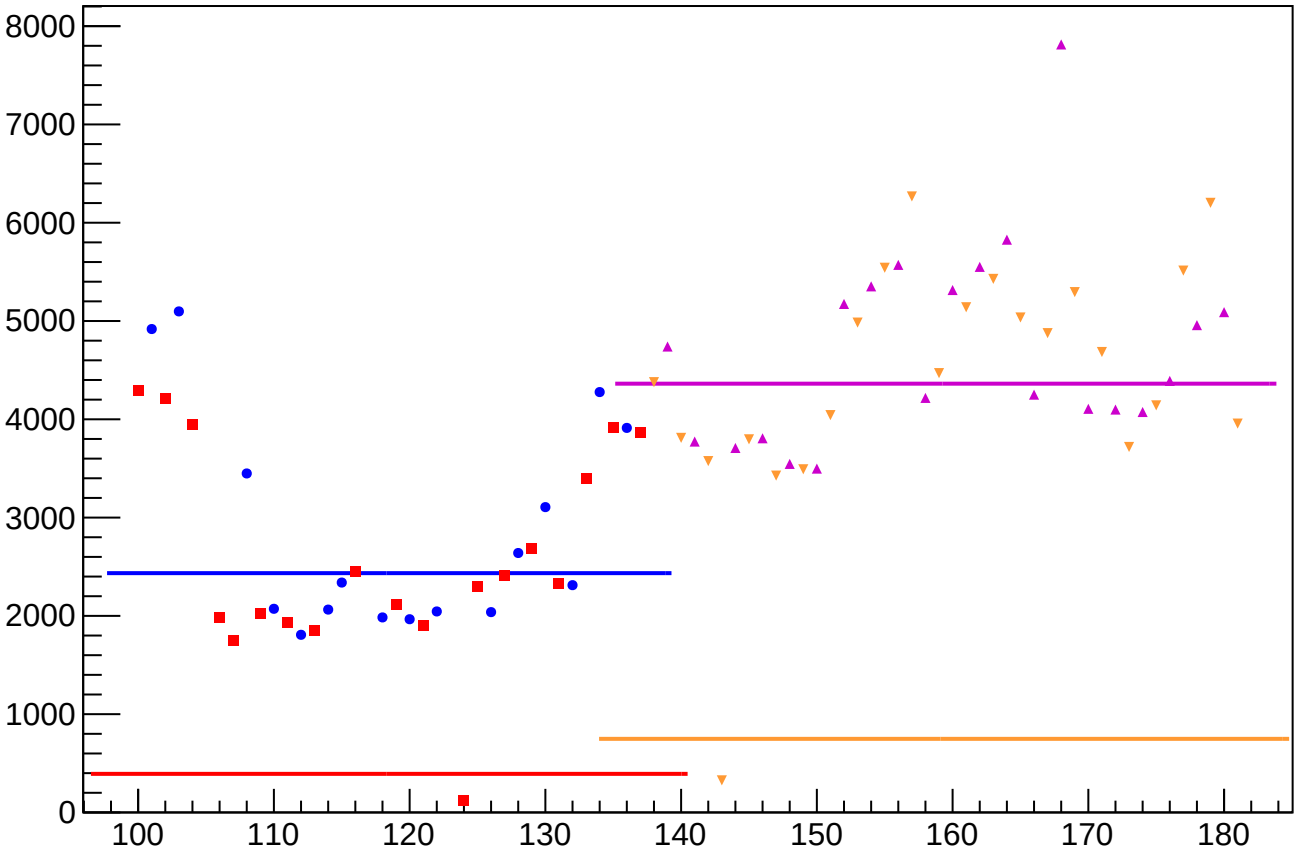
Right: 1676.430+/-0.313 $\chi^2$/NDF: 535909.0/34

In: 1687.573+/-0.242 $\chi^2$/NDF:250760.0/36

Out: 1709.626+/-0.240 $\chi^2$/NDF:809276.5/41

All: 1698.678+/-0.170 $\chi^2$/NDF: 1064223.4/78


asym_atl_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: 301.839+/-960.952 χ²/NDF: 15.3/15
Left Out: 182.088+/-344.464 χ²/NDF:32.7/22
Right Out: -92.243+/-315.757 χ²/NDF: 20.6/18
Left In: -359.090+/-1071.839 χ²/NDF:12.1/20
Left: 131.426+/-327.944 χ²/NDF: 45.0/43
Right: -53.840+/-299.978 χ²/NDF: 36.1/34
In: 7.320+/-715.498 χ²/NDF:27.6/36
Out: 33.017+/-232.762 χ²/NDF:53.7/41
All: 30.558+/-221.344 χ²/NDF: 81.3/78




Right In: 2434.758+/-0.679 $\chi^2$/NDF: 1456027.7/15

Left Out: 748.917+/-0.244 $\chi^2$/NDF:26722041.9/22

Right Out: 392.666+/-0.223 $\chi^2$/NDF: 11408006.3/18

Left In: 4362.473+/-0.758 $\chi^2$/NDF:1146152.4/20

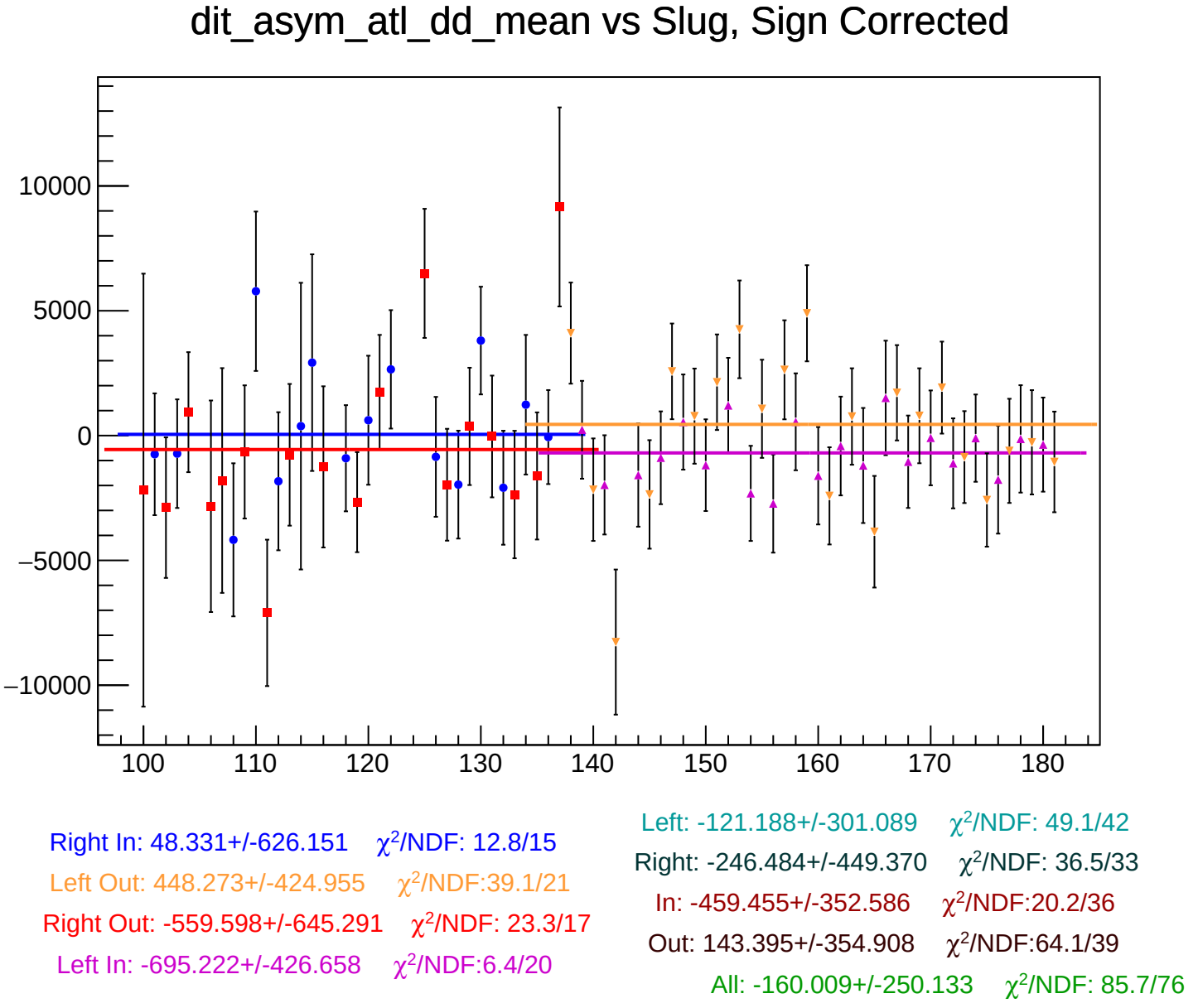
Left: 1087.198+/-0.232 $\chi^2$/NDF: 48472305.8/43

Right: 591.664+/-0.212 $\chi^2$/NDF: 21015754.2/34

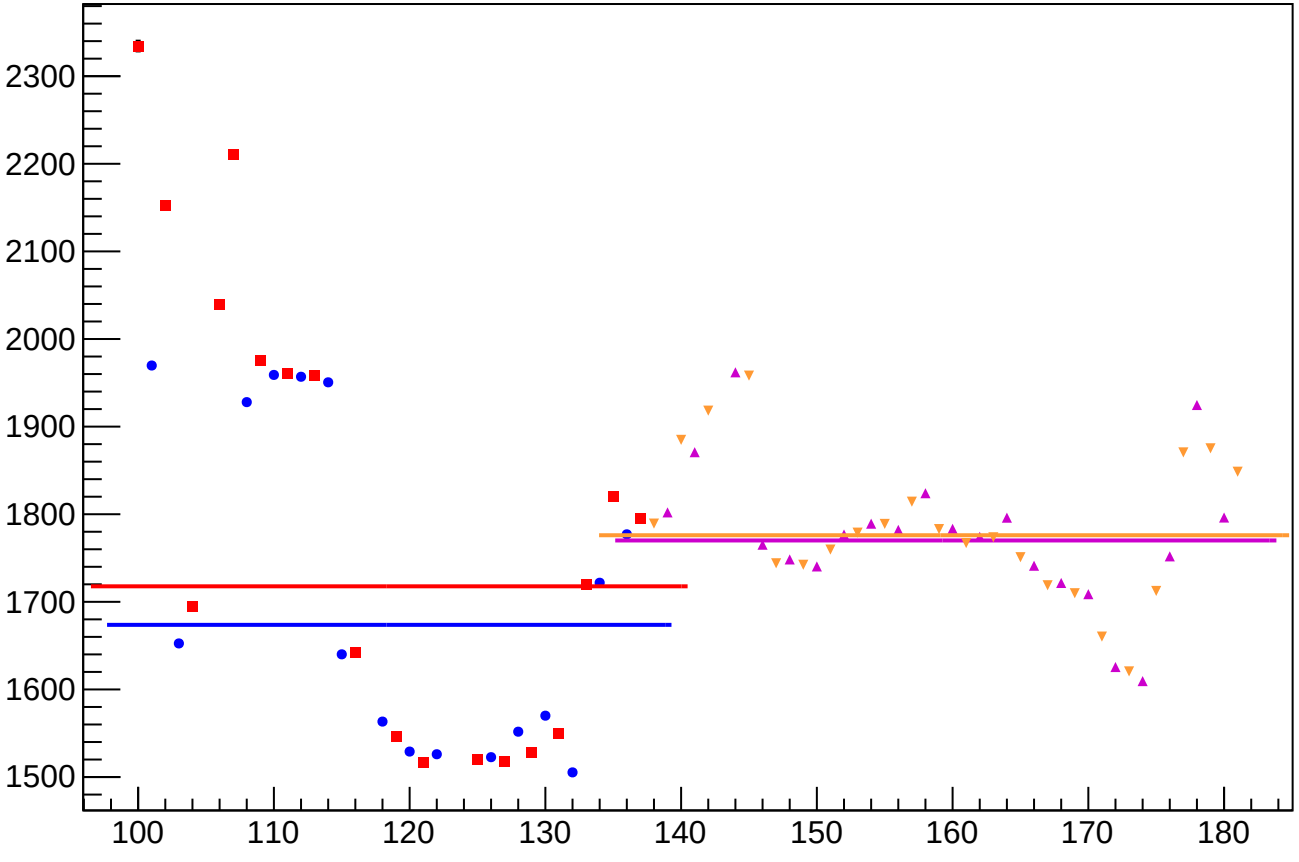
In: 3293.773+/-0.506 $\chi^2$/NDF:6188672.1/36

Out: 555.331+/-0.165 $\chi^2$/NDF:39292500.1/41

All: 817.405+/-0.157 $\chi^2$/NDF: 71974241.9/78


dit_asym_atl_dd_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
100
110
120
130
140
150
160
170
180
Right In: 48.331+/-626.151 χ²/NDF: 12.8/15
Left Out: 448.273+/-424.955 χ²/NDF:39.1/21
Right Out: -559.598+/-645.291 χ²/NDF: 23.3/17
Left In: -695.222+/-426.658 χ²/NDF:6.4/20
Left: -121.188+/-301.089 χ²/NDF: 49.1/42
Right: -246.484+/-449.370 χ²/NDF: 36.5/33
In: -459.455+/-352.586 χ²/NDF:20.2/36
Out: 143.395+/-354.908 χ²/NDF:64.1/39
All: -160.009+/-250.133 χ²/NDF: 85.7/76

# dit_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1673.729+/-0.443 $\chi^2$/NDF: 140873.1/15

Left Out: 1776.020+/-0.300 $\chi^2$/NDF:66896.6/21

Right Out: 1717.713+/-0.455 $\chi^2$/NDF: 227642.0/17

Left In: 1770.053+/-0.302 $\chi^2$/NDF:70224.1/20

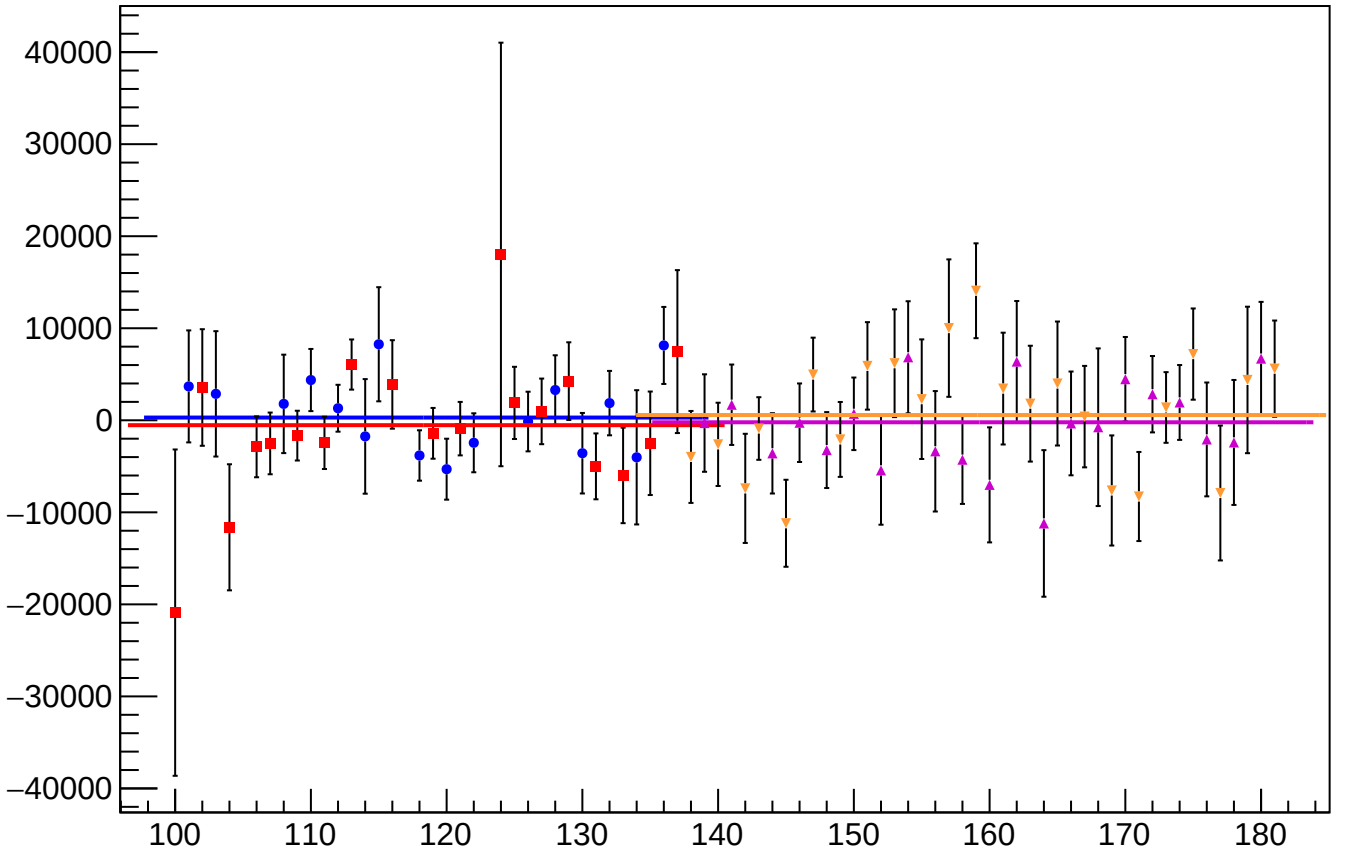
Left: 1773.048+/-0.213 $\chi^2$/NDF: 137317.0/42

Right: 1695.110+/-0.317 $\chi^2$/NDF: 373312.6/33

In: 1739.510+/-0.249 $\chi^2$/NDF:243420.4/36

Out: 1758.325+/-0.251 $\chi^2$/NDF:305964.7/39

All: 1748.862+/-0.177 $\chi^2$/NDF: 552215.9/76




Right In: 296.517+/-964.677 $\chi^2$/NDF: 15.3/15

Left Out: 569.909+/-1065.186 $\chi^2$/NDF:31.9/22

Right Out: -531.007+/-883.969 $\chi^2$/NDF: 18.8/18

Left In: -216.919+/-1124.459 $\chi^2$/NDF:11.9/20

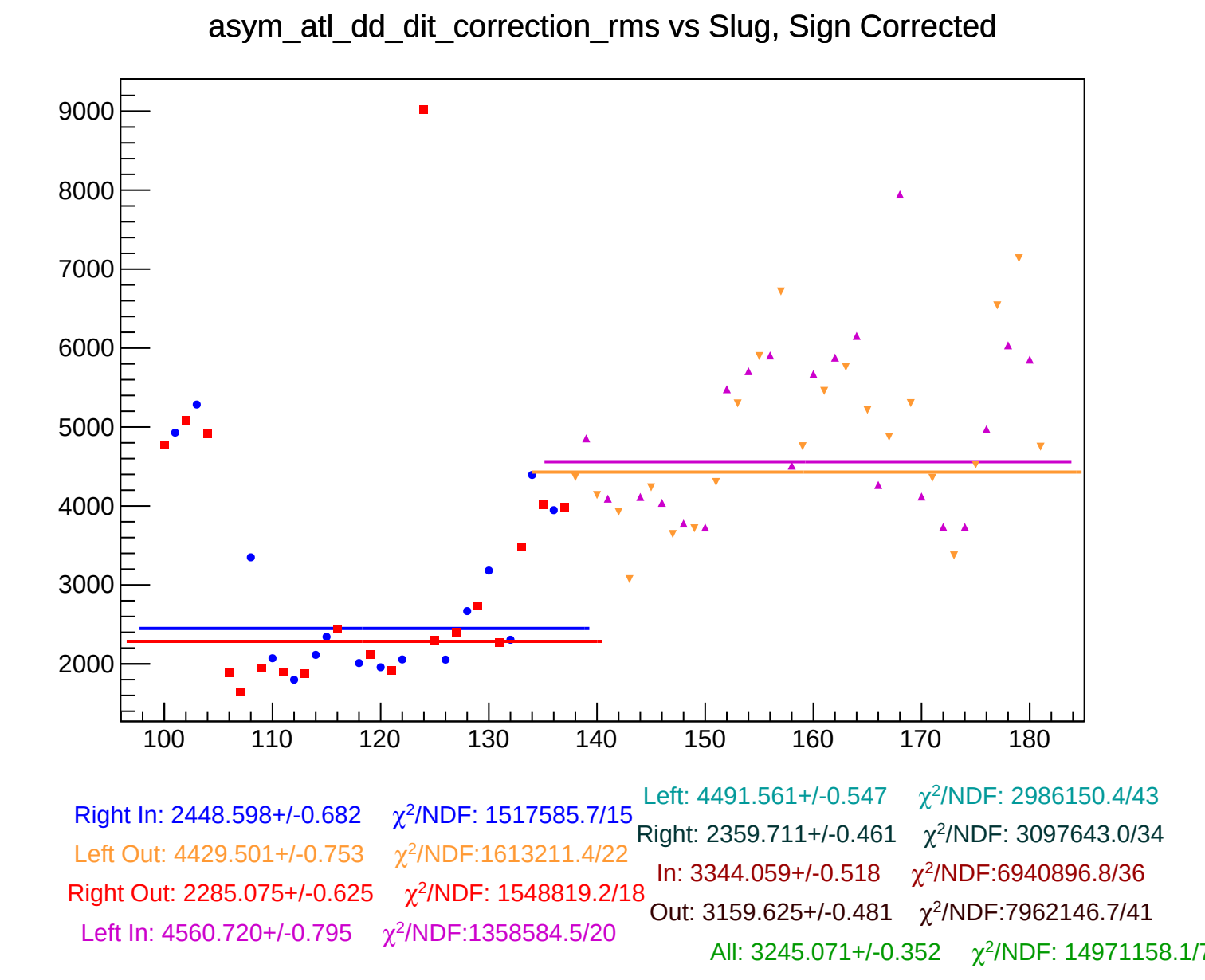
Left: 197.779+/-773.306 $\chi^2$/NDF: 44.1/43

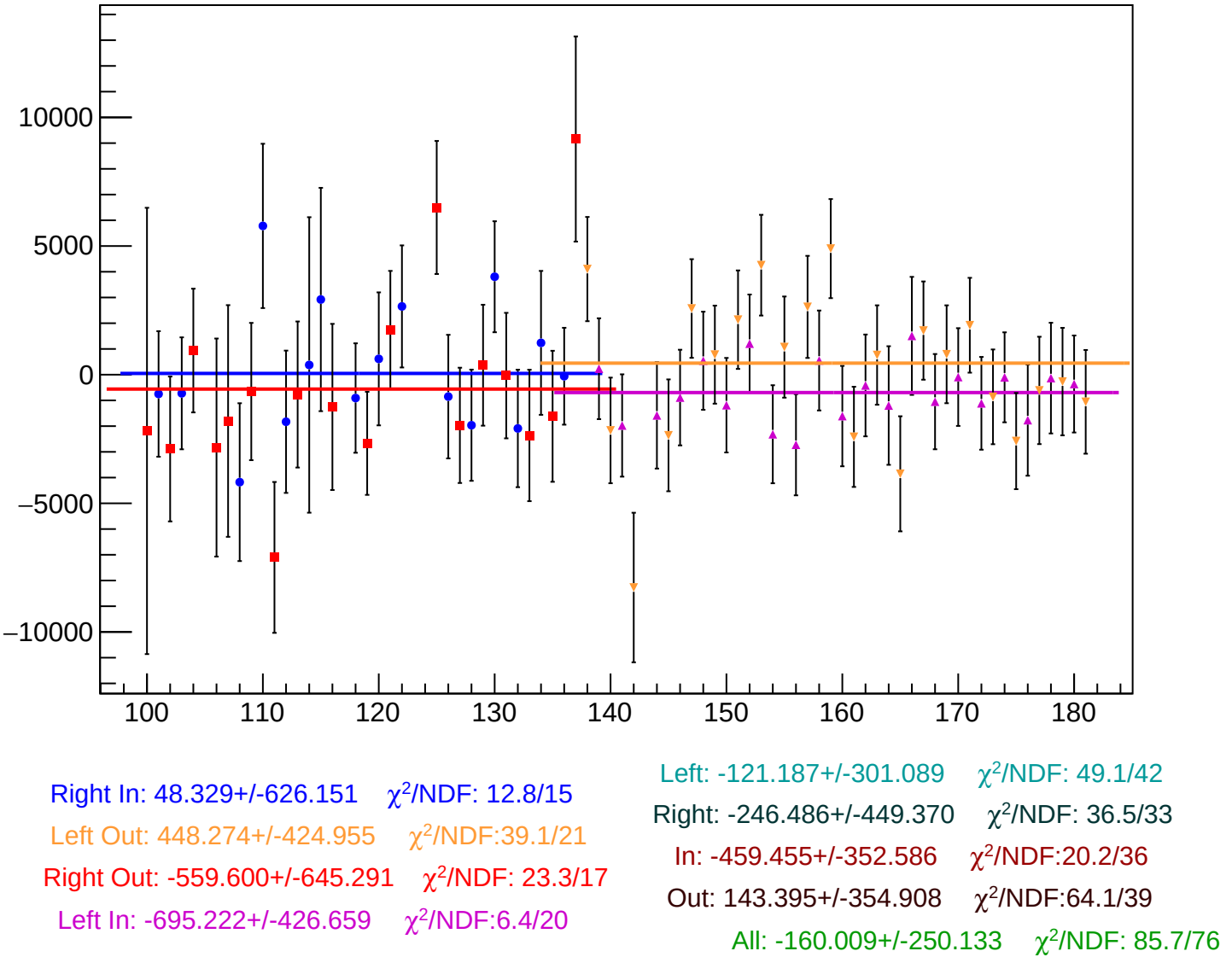
Right: -153.305+/-651.728 $\chi^2$/NDF: 34.4/34

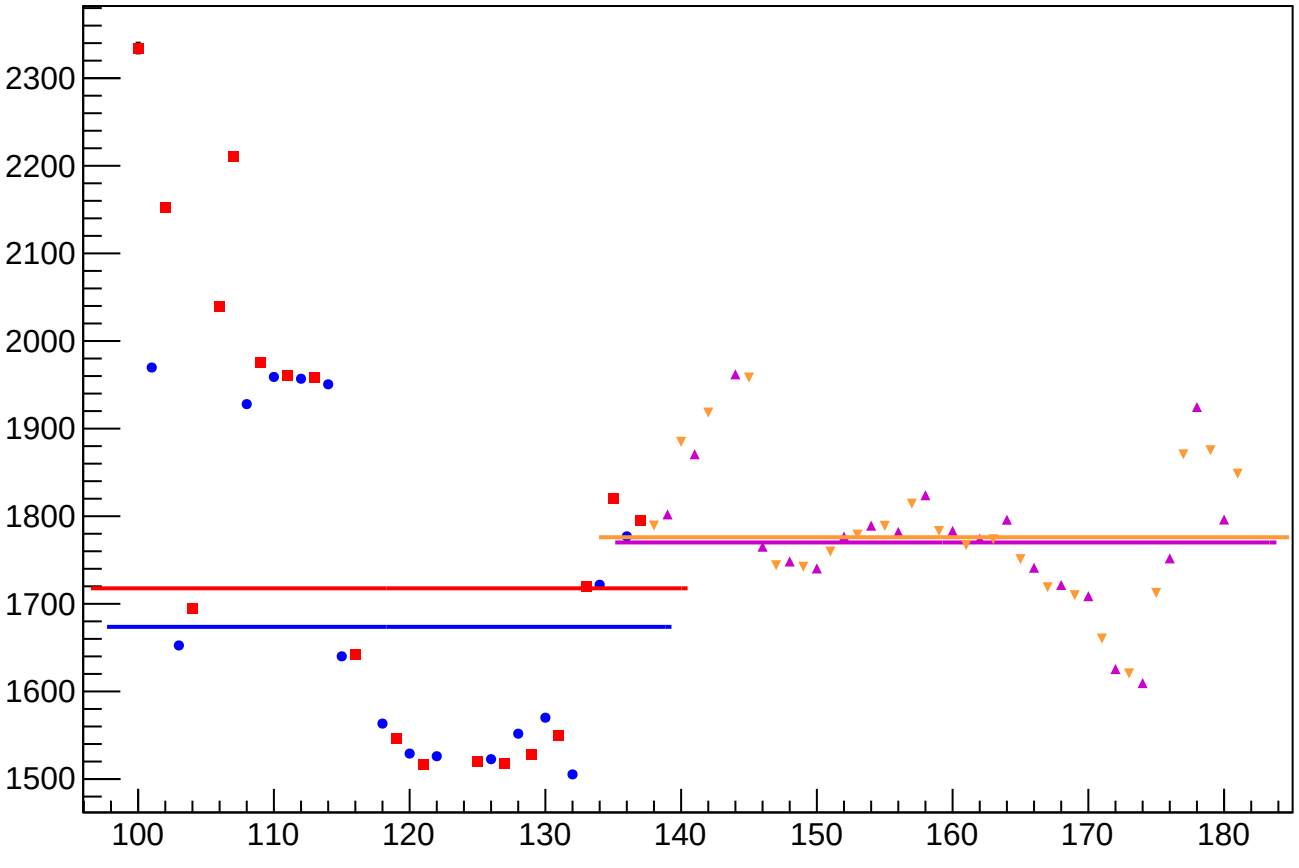
In: 78.839+/-732.162 $\chi^2$/NDF:27.3/36

Out: -82.026+/-680.240 $\chi^2$/NDF:51.3/41

All: -7.499+/-498.348 $\chi^2$/NDF: 78.6/78


asym_atl_dd_dit_correction_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
2000
100
110
120
130
140
150
160
170
180
Right In: 2448.598+/-0.682 χ²/NDF: 1517585.7/15
Left Out: 4429.501+/-0.753 χ²/NDF:1613211.4/22
Right Out: 2285.075+/-0.625 χ²/NDF: 1548819.2/18
Left In: 4560.720+/-0.795 χ²/NDF:1358584.5/20
Left: 4491.561+/-0.547 χ²/NDF: 2986150.4/43
Right: 2359.711+/-0.461 χ²/NDF: 3097643.0/34
In: 3344.059+/-0.518 χ²/NDF:6940896.8/36
Out: 3159.625+/-0.481 χ²/NDF:7962146.7/41
All: 3245.071+/-0.352 χ²/NDF: 14971158.1/7


eigen_dit_asym_atl_dd_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
100
110
120
130
140
150
160
170
180
Right In: 48.329+/-626.151 χ²/NDF: 12.8/15
Left Out: 448.274+/-424.955 χ²/NDF:39.1/21
Right Out: -559.600+/-645.291 χ²/NDF: 23.3/17
Left In: -695.222+/-426.659 χ²/NDF:6.4/20
Left: -121.187+/-301.089 χ²/NDF: 49.1/42
Right: -246.486+/-449.370 χ²/NDF: 36.5/33
In: -459.455+/-352.586 χ²/NDF:20.2/36
Out: 143.395+/-354.908 χ²/NDF:64.1/39
All: -160.009+/-250.133 χ²/NDF: 85.7/76




Right In: 1673.728+/-0.443 $\chi^2$/NDF: 140873.1/15

Left Out: 1776.021+/-0.300 $\chi^2$/NDF:66899.8/21

Right Out: 1717.713+/-0.455 $\chi^2$/NDF: 227641.3/17

Left In: 1770.054+/-0.302 $\chi^2$/NDF:70226.9/20

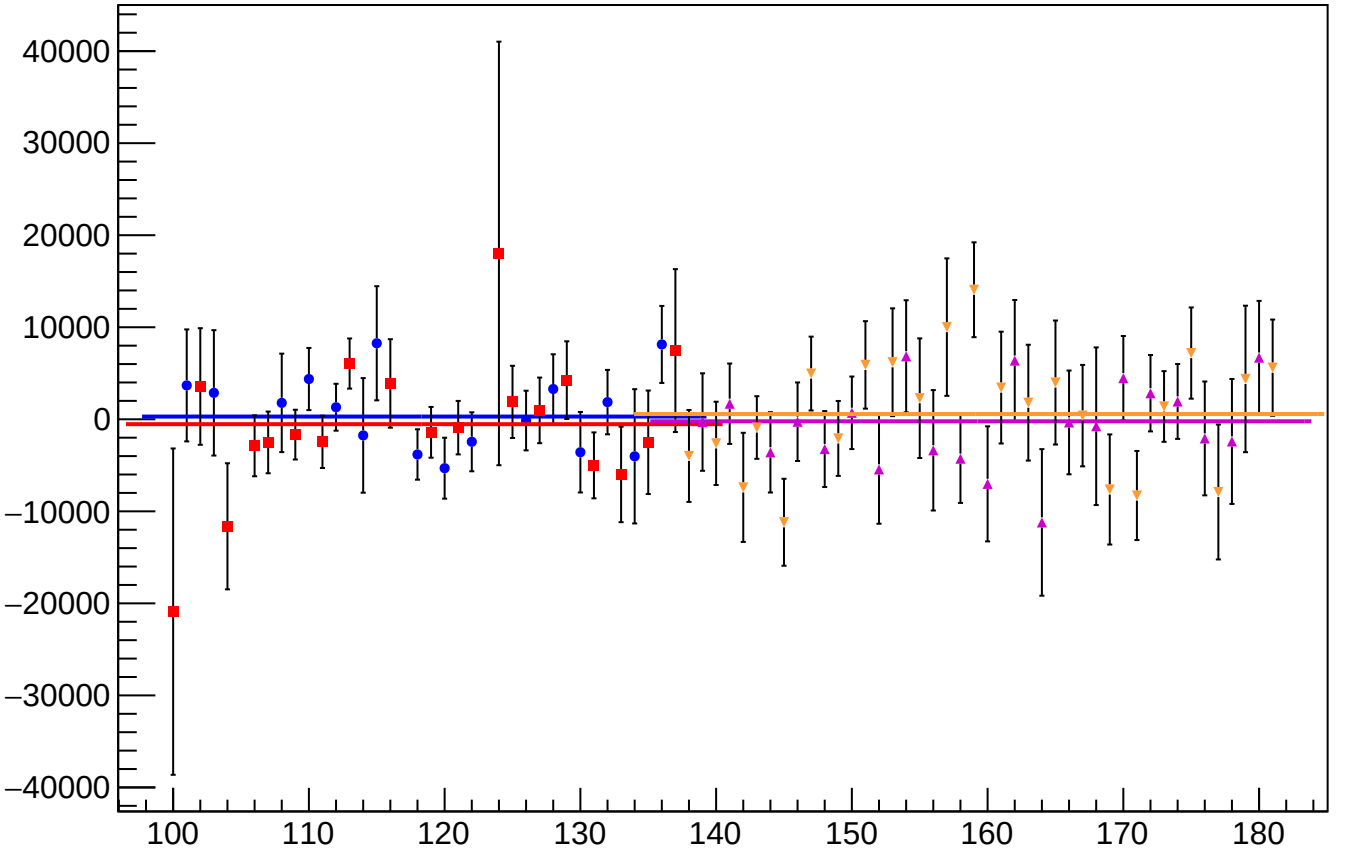
Left: 1773.049+/-0.213 $\chi^2$/NDF: 137323.0/42

Right: 1695.110+/-0.317 $\chi^2$/NDF: 373311.9/33

In: 1739.511+/-0.249 $\chi^2$/NDF:243424.0/36

Out: 1758.326+/-0.251 $\chi^2$/NDF:305967.6/39

All: 1748.863+/-0.177 $\chi^2$/NDF: 552222.4/76




Right In: 296.511+/-964.673 $\chi^2$/NDF: 15.3/15

Left Out: 569.913+/-1065.187 $\chi^2$/NDF:31.9/22

Right Out: -531.009+/-883.966 $\chi^2$/NDF: 18.8/18

Left In: -216.919+/-1124.461 $\chi^2$/NDF:11.9/20

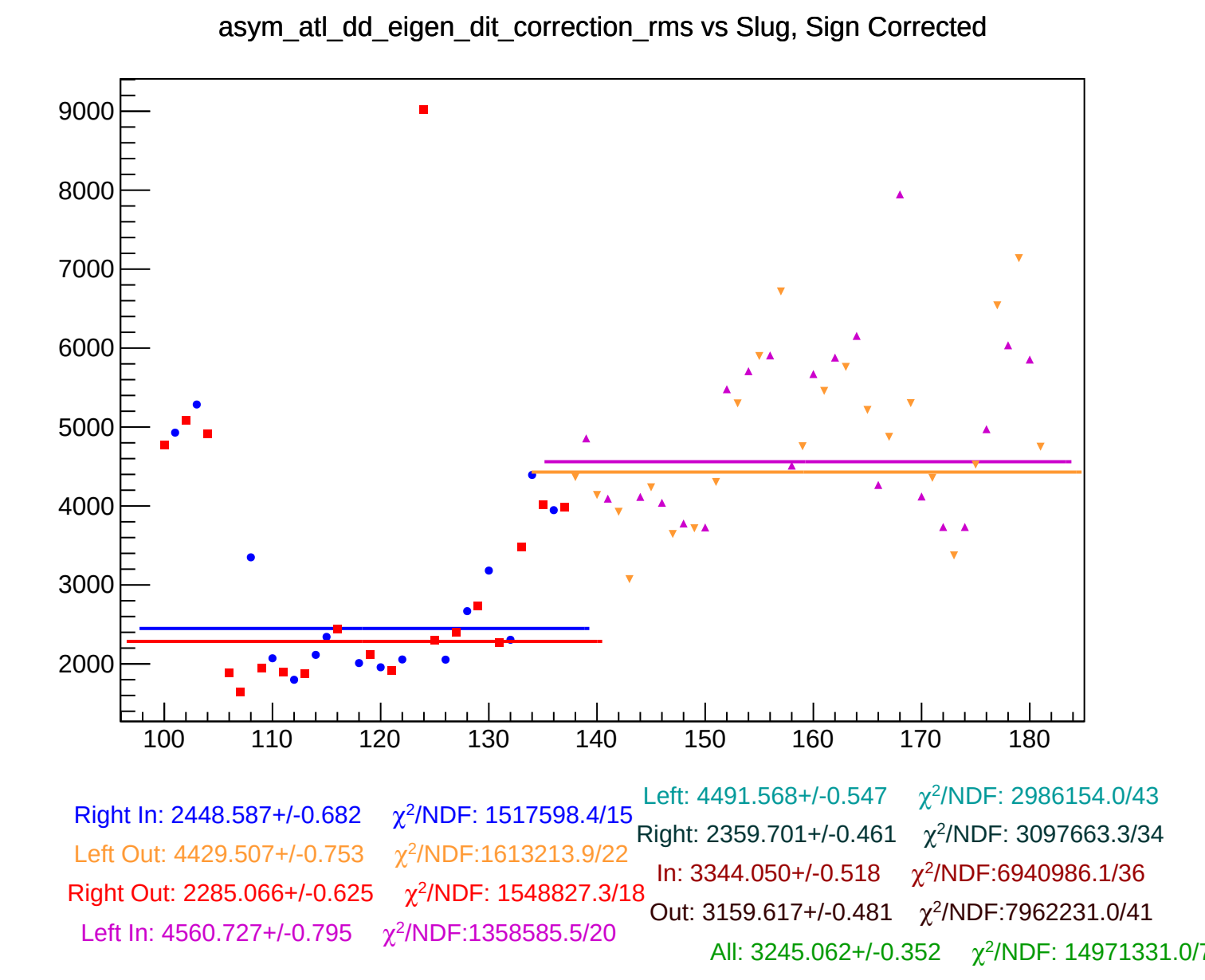
Left: 197.781+/-773.307 $\chi^2$/NDF: 44.1/43

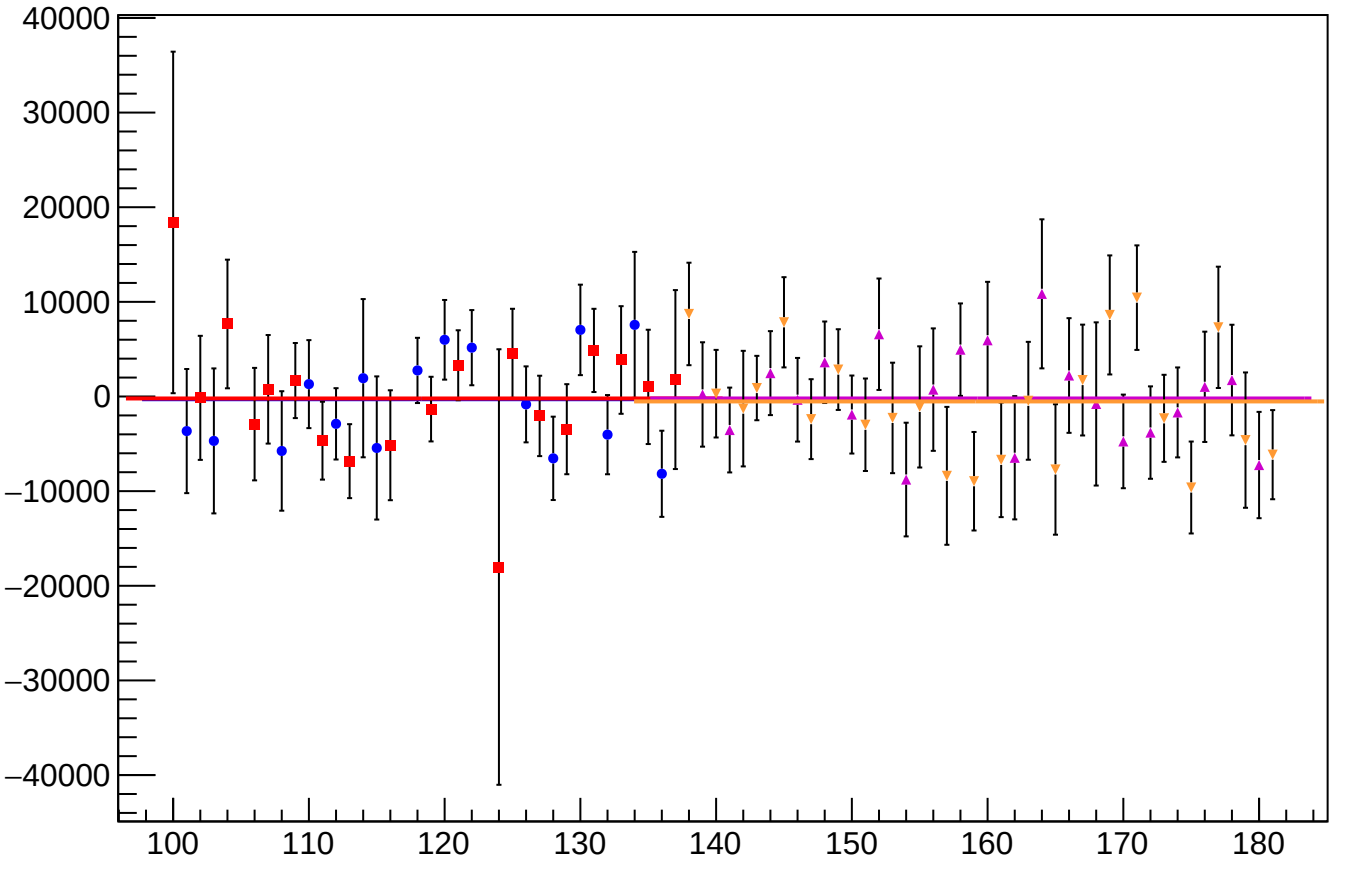
Right: -153.308+/-651.726 $\chi^2$/NDF: 34.4/34

In: 78.837+/-732.161 $\chi^2$/NDF:27.3/36

Out: -82.028+/-680.239 $\chi^2$/NDF:51.3/41

All: -7.501+/-498.347 $\chi^2$/NDF: 78.6/78


asym_atl_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
2000
100
110
120
130
140
150
160
170
180
Right In: 2448.587+/-0.682 χ²/NDF: 1517598.4/15
Left Out: 4429.507+/-0.753 χ²/NDF:1613213.9/22
Right Out: 2285.066+/-0.625 χ²/NDF: 1548827.3/18
Left In: 4560.727+/-0.795 χ²/NDF:1358585.5/20
Left: 4491.568+/-0.547 χ²/NDF: 2986154.0/43
Right: 2359.701+/-0.461 χ²/NDF: 3097663.3/34
In: 3344.050+/-0.518 χ²/NDF:6940986.1/36
Out: 3159.617+/-0.481 χ²/NDF:7962231.0/41
All: 3245.062+/-0.352 χ²/NDF: 14971331.0/7




Right In: -287.276+/-1197.339 $\chi^2$/NDF: 16.6/15

Left Out: -520.028+/-1090.711 $\chi^2$/NDF:26.4/22

Right Out: -209.473+/-1153.742 $\chi^2$/NDF: 12.9/18

Left In: -209.422+/-1159.306 $\chi^2$/NDF:13.6/20

Left: -374.186+/-794.393 $\chi^2$/NDF: 40.1/43

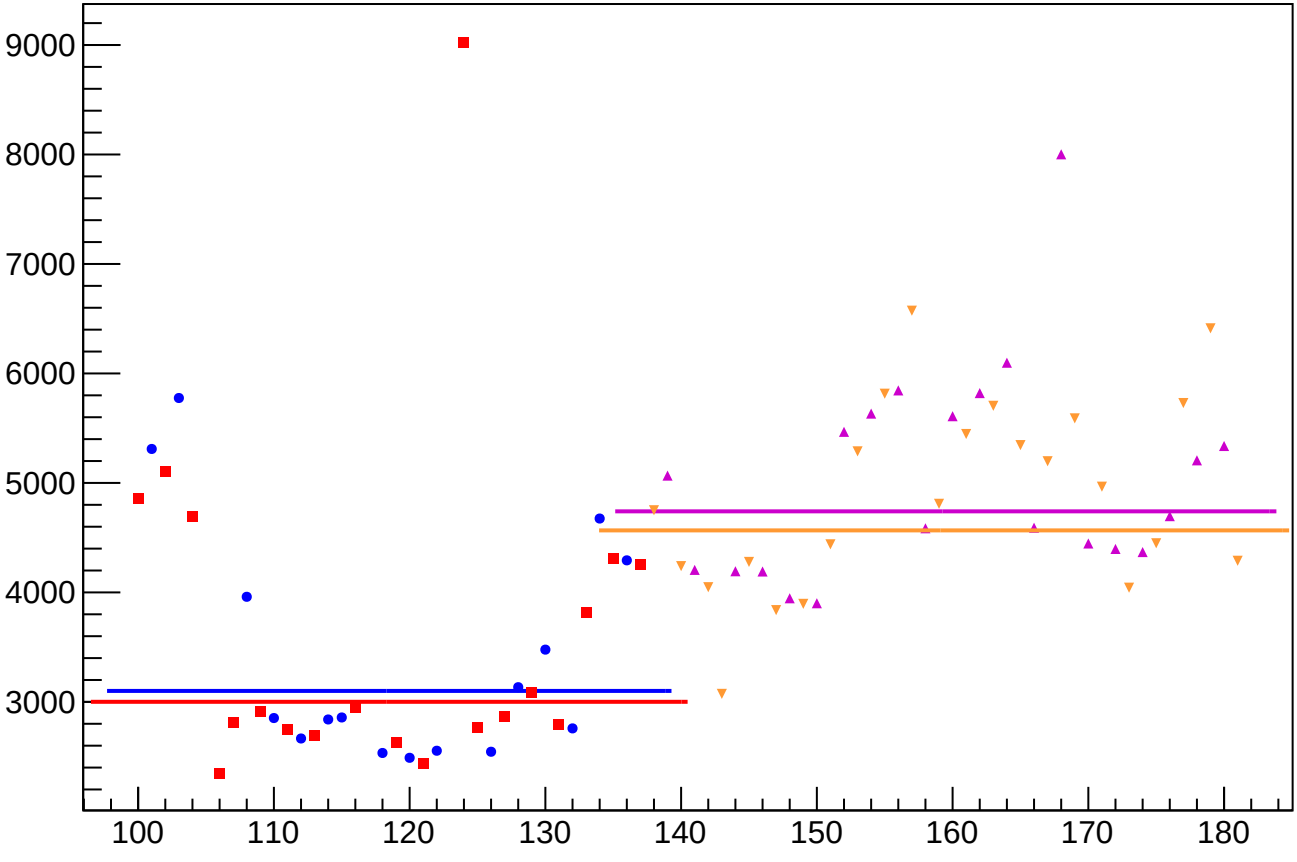
Right: -246.932+/-830.804 $\chi^2$/NDF: 29.4/34

In: -247.093+/-832.874 $\chi^2$/NDF:30.2/36

Out: -373.465+/-792.596 $\chi^2$/NDF:39.3/41

All: -313.408+/-574.161 $\chi^2$/NDF: 69.5/78

# asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 3100.135+/-0.847 $\chi^2$/NDF: 963669.6/15

Left Out: 4566.445+/-0.771 $\chi^2$/NDF:1247120.3/22

Right Out: 3000.750+/-0.805 $\chi^2$/NDF: 806601.4/18

Left In: 4740.394+/-0.820 $\chi^2$/NDF:888831.8/20

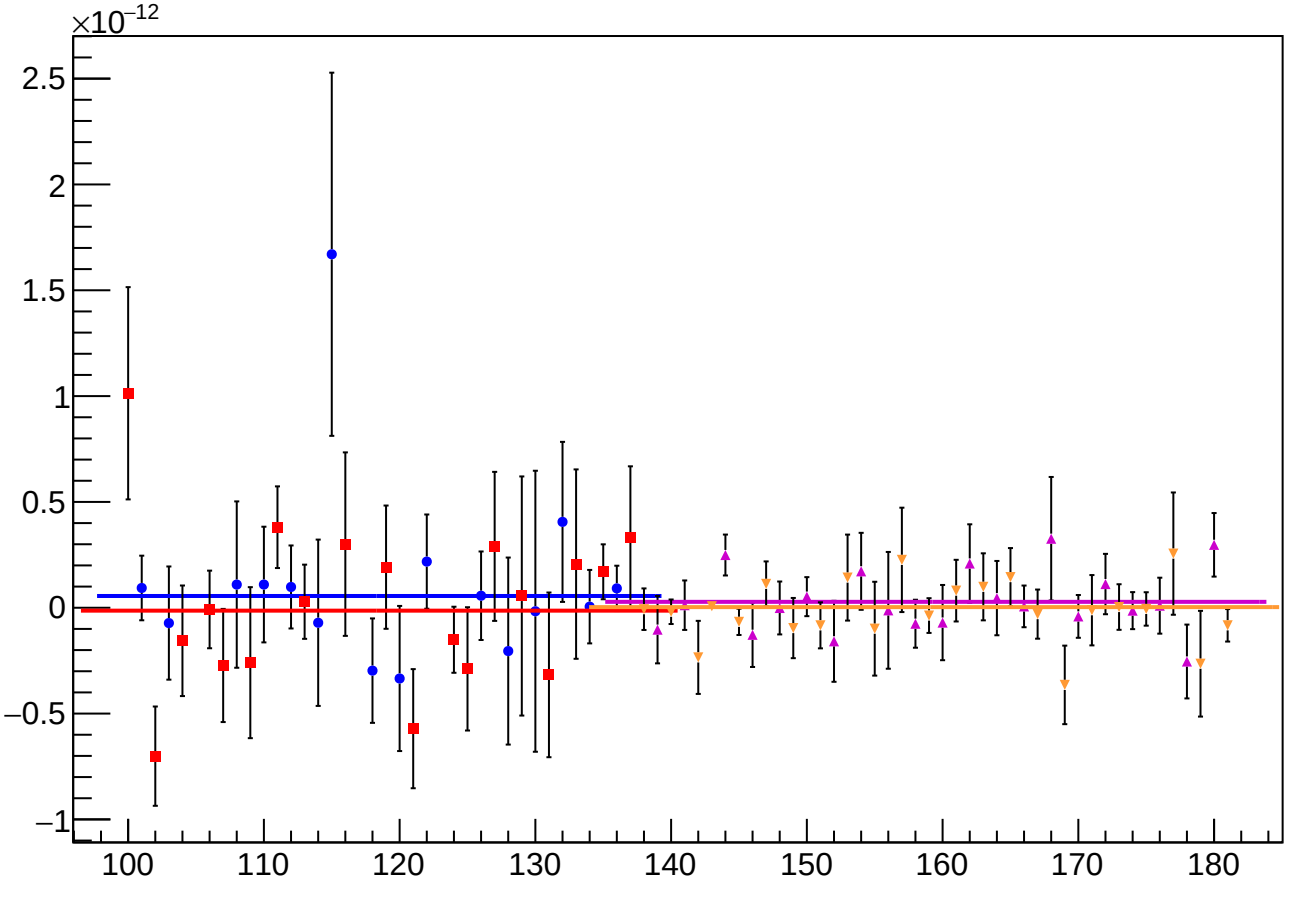
Left: 4648.121+/-0.562 $\chi^2$/NDF: 2159837.1/43

Right: 3047.926+/-0.583 $\chi^2$/NDF: 1777509.7/34

In: 3946.727+/-0.589 $\chi^2$/NDF:3789743.8/36

Out: 3816.919+/-0.557 $\chi^2$/NDF:4026620.0/41

All: 3878.191+/-0.405 $\chi^2$/NDF: 7842014.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:16.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 30.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.8/20

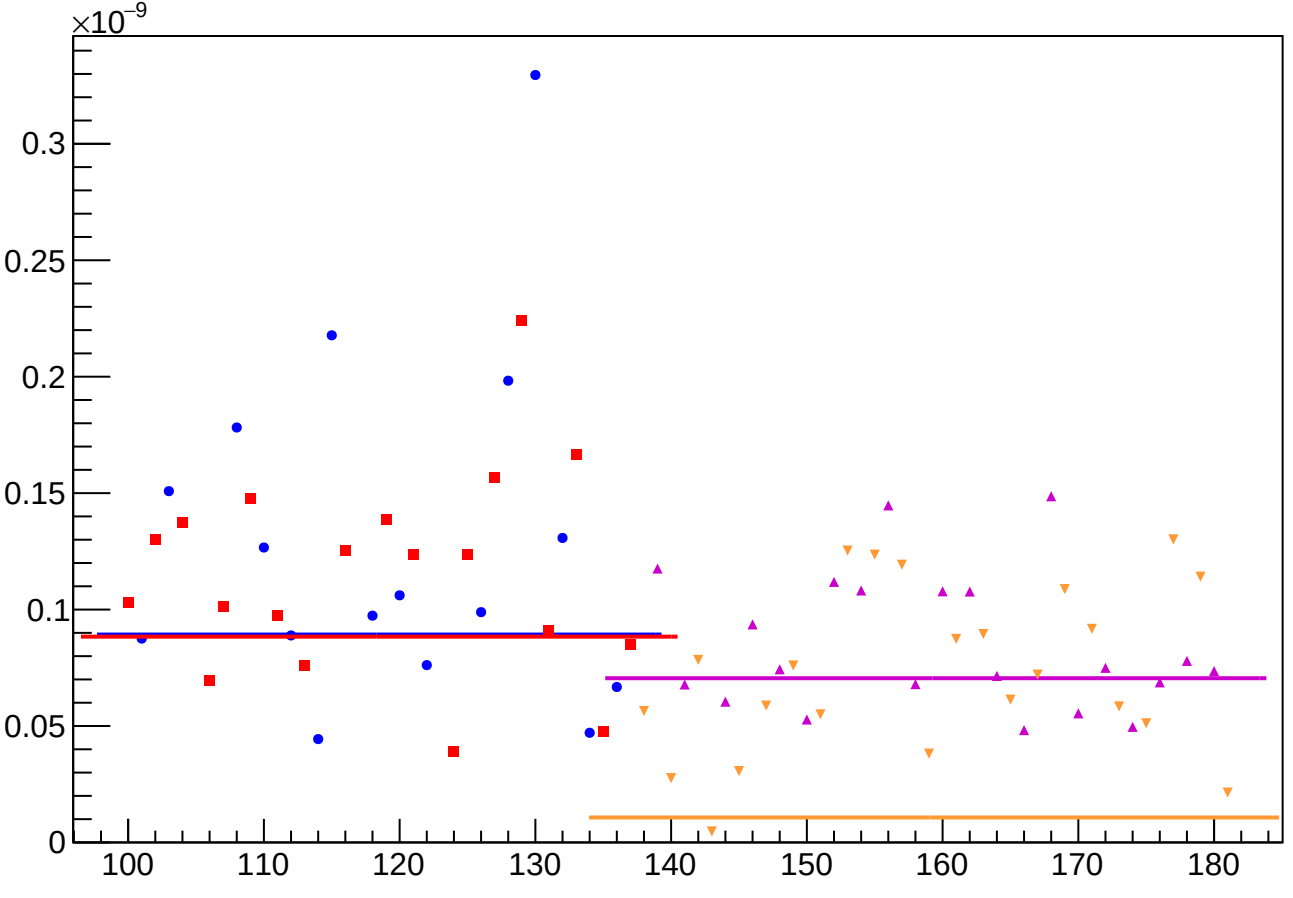
Left: 0.000+/-0.000 $\chi^2$/NDF: 35.8/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:28.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:46.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 76.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 949608.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9496193.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1013814.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1224827.7/20

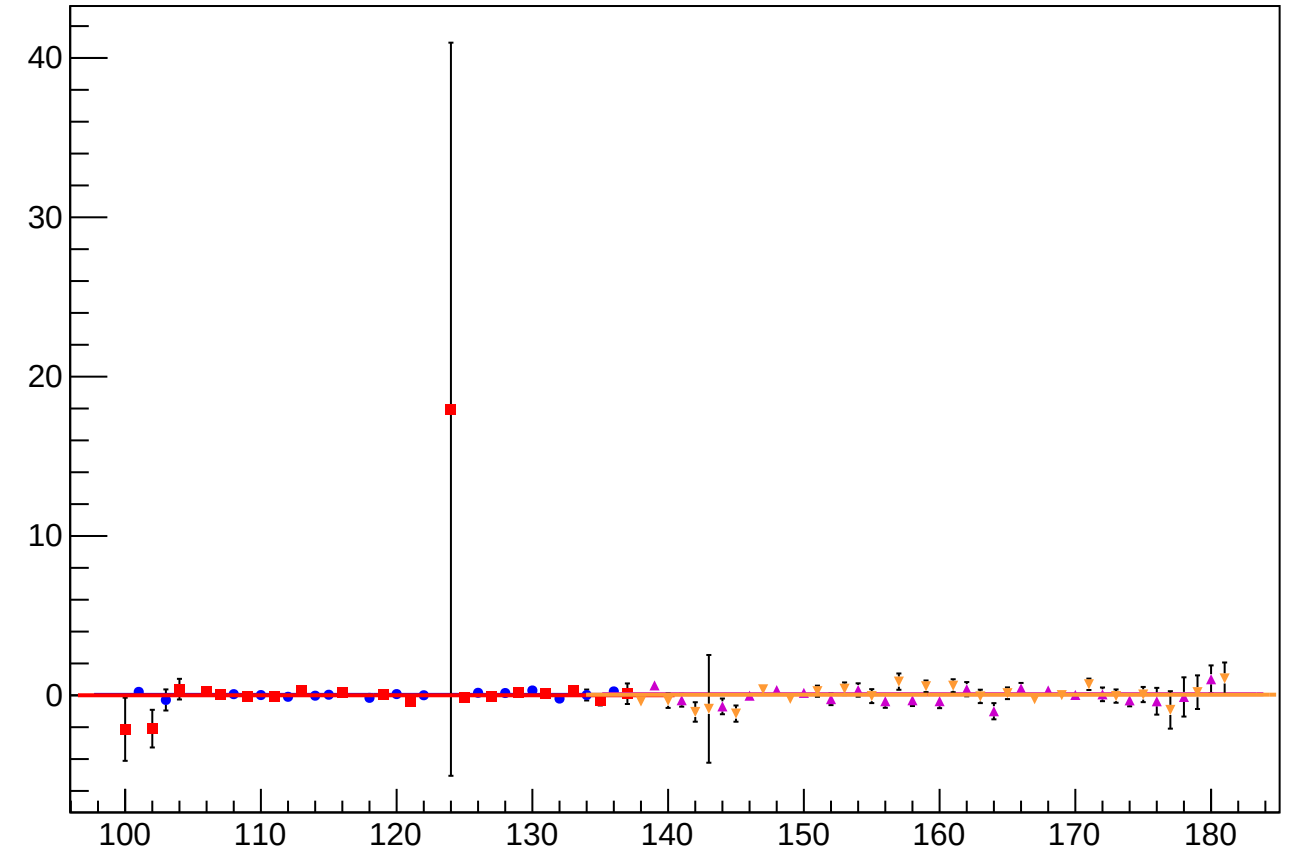
Left: 0.000+/-0.000 $\chi^2$/NDF: 18724671.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 1963677.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:2349534.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:14303297.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 27268355.8/78




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: 0.040+/-0.078 $\chi^2$/NDF:28.0/22

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.071+/-0.076 $\chi^2$/NDF:23.6/20

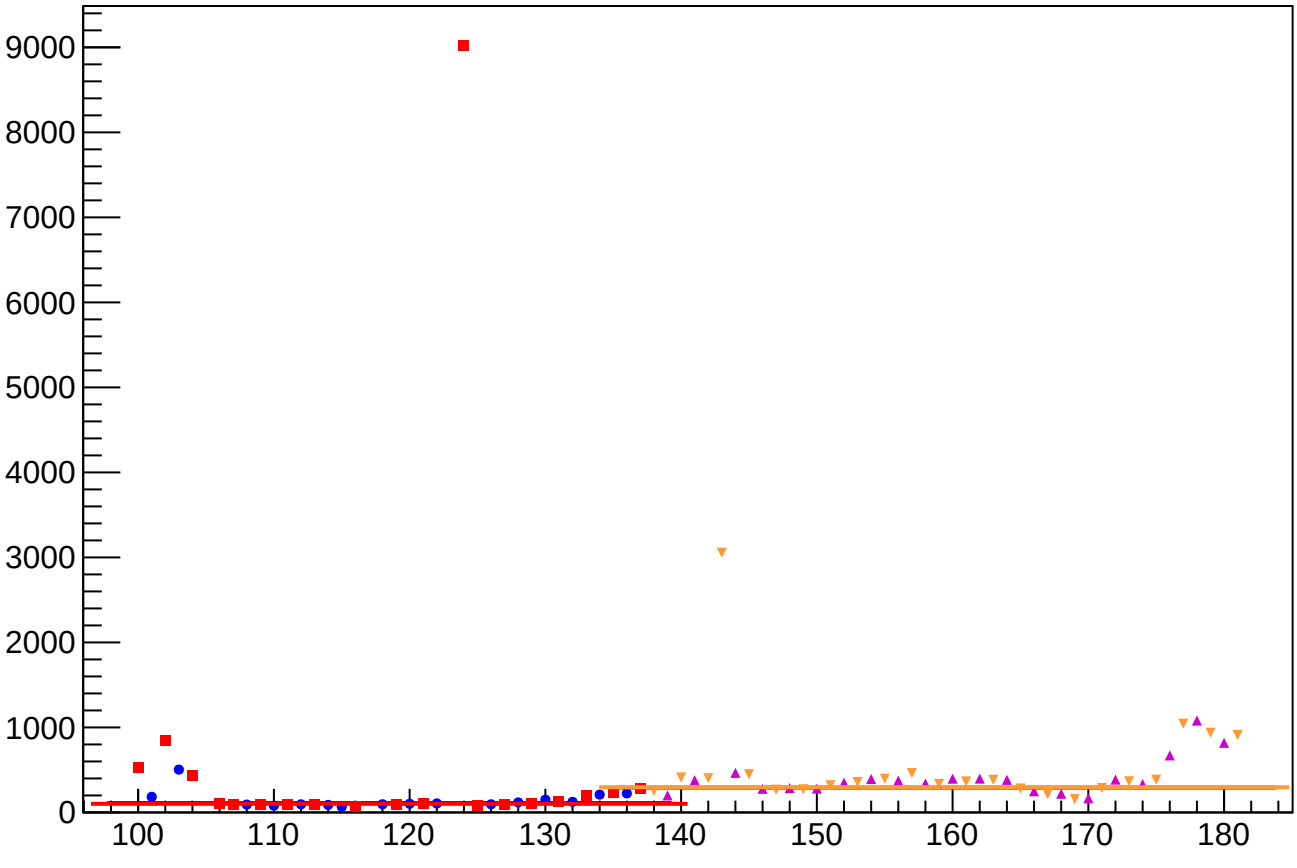
Left: 0.056+/-0.054 $\chi^2$/NDF: 51.8/43

Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.039+/-0.039 $\chi^2$/NDF:32.7/36

Out: 0.012+/-0.038 $\chi^2$/NDF:50.6/41

All: 0.025+/-0.027 $\chi^2$/NDF: 83.6/78




Right In: 109.988+/-0.032 $\chi^2$/NDF: 1930558.2/15

Left Out: 296.552+/-0.055 $\chi^2$/NDF:6215717.5/22

Right Out: 101.852+/-0.031 $\chi^2$/NDF: 2589792.8/18

Left In: 291.663+/-0.054 $\chi^2$/NDF:4401789.0/20

Left: 294.068+/-0.039 $\chi^2$/NDF: 10621531.9/43

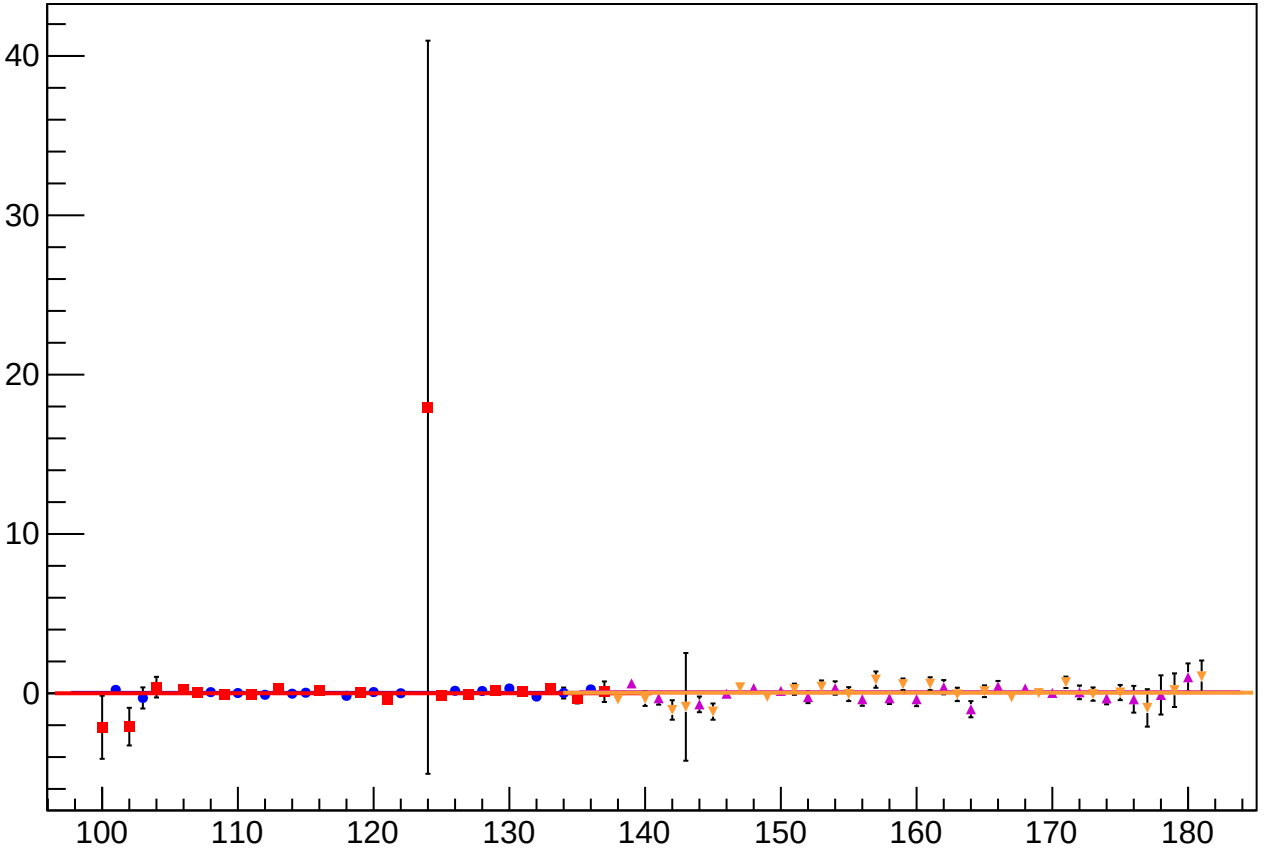
Right: 105.743+/-0.022 $\chi^2$/NDF: 4554008.7/34

In: 157.211+/-0.028 $\chi^2$/NDF:14693479.1/36

Out: 148.136+/-0.027 $\chi^2$/NDF:18386873.7/41

All: 152.543+/-0.019 $\chi^2$/NDF: 33136132.1/78

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: 0.040+/-0.078 $\chi^2$/NDF:28.0/22

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.071+/-0.076 $\chi^2$/NDF:23.6/20

Left: 0.056+/-0.054 $\chi^2$/NDF: 51.8/43

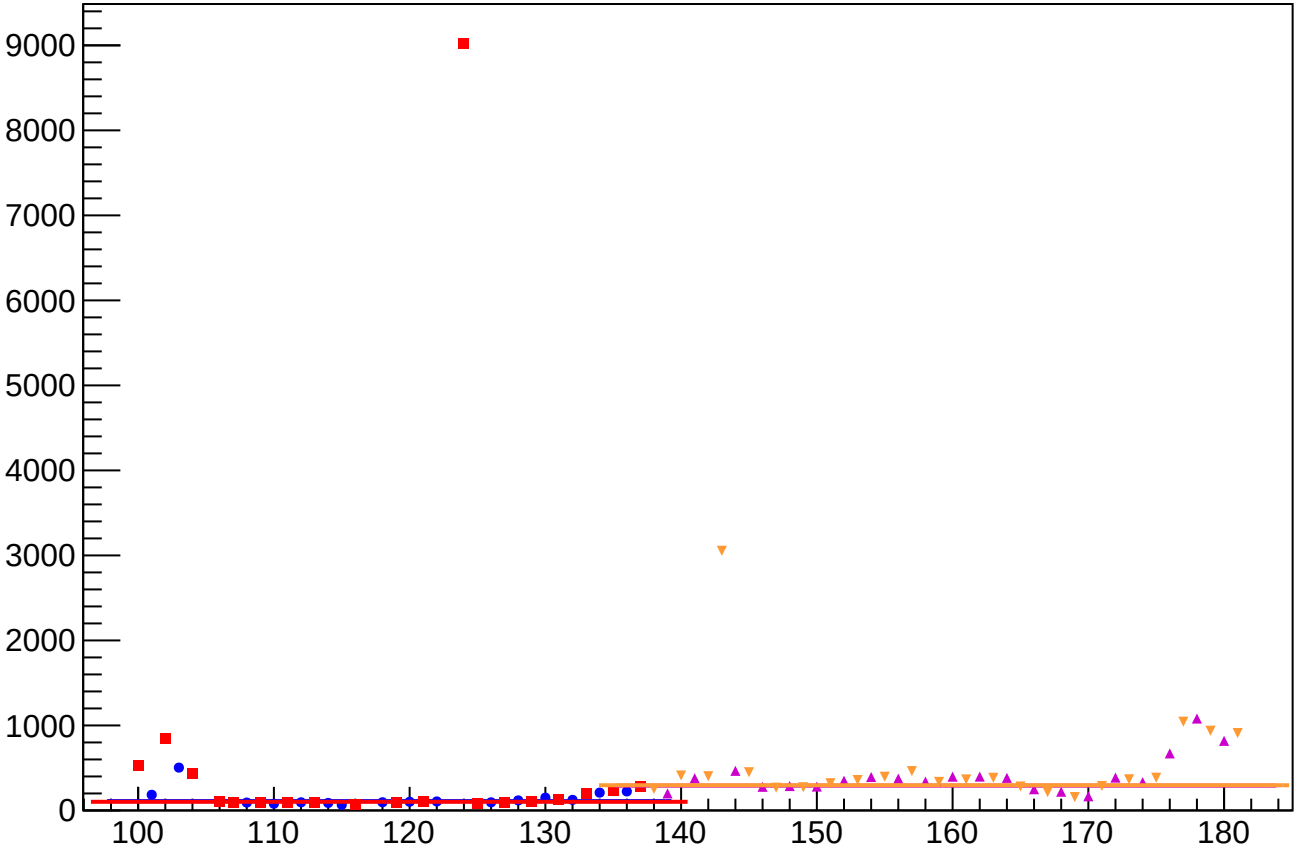
Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.039+/-0.039 $\chi^2$/NDF:32.7/36

Out: 0.012+/-0.038 $\chi^2$/NDF:50.6/41

All: 0.025+/-0.027 $\chi^2$/NDF: 83.6/78

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 109.988+/-0.032 $\chi^2$/NDF: 1930558.2/15

Left Out: 296.552+/-0.055 $\chi^2$/NDF:6215717.5/22

Right Out: 101.852+/-0.031 $\chi^2$/NDF: 2589792.8/18

Left In: 291.663+/-0.054 $\chi^2$/NDF:4401789.0/20

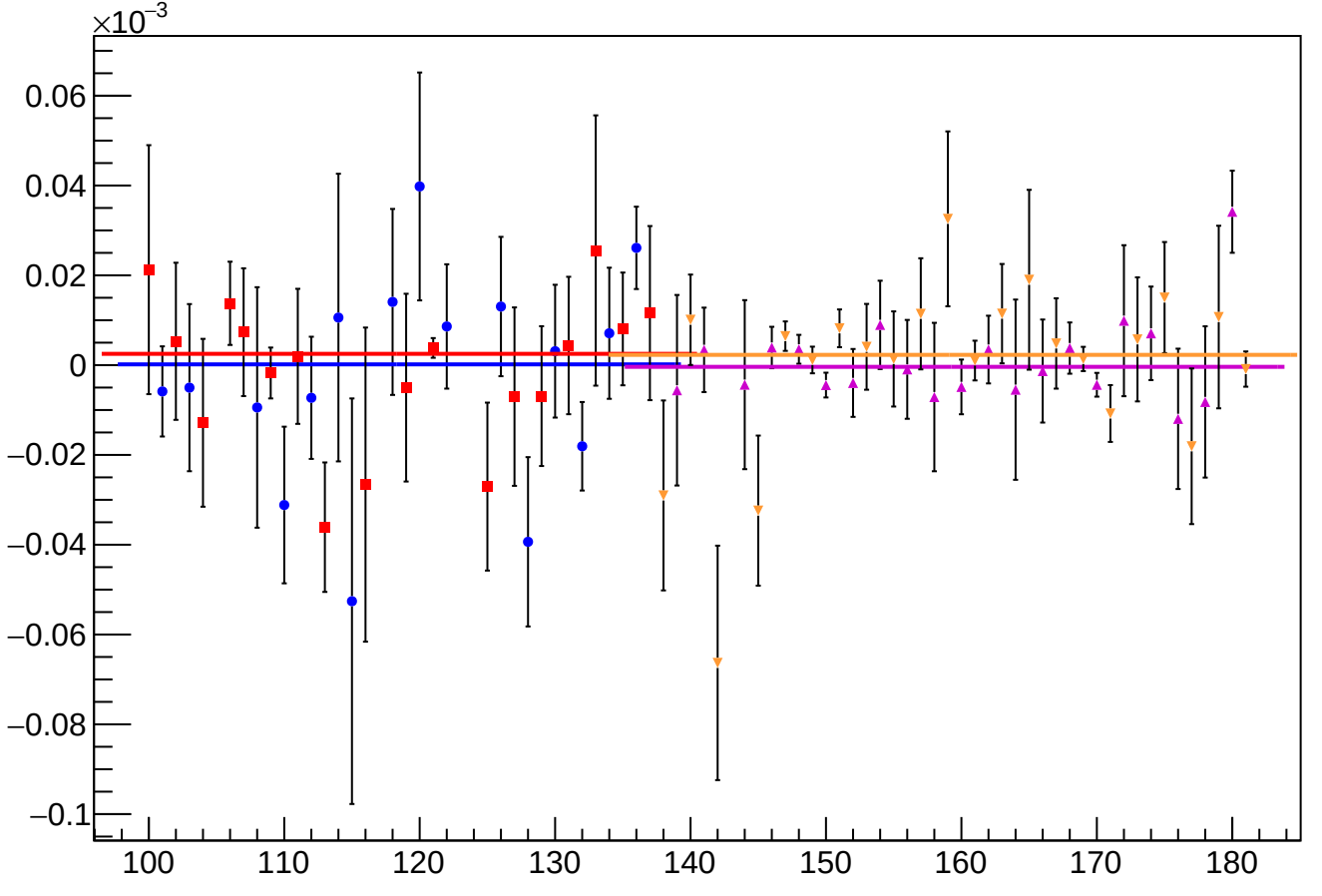
Left: 294.068+/-0.039 $\chi^2$/NDF: 10621531.9/43

Right: 105.743+/-0.022 $\chi^2$/NDF: 4554008.7/34

In: 157.211+/-0.028 $\chi^2$/NDF:14693479.1/36

Out: 148.136+/-0.027 $\chi^2$/NDF:18386873.7/41

All: 152.543+/-0.019 $\chi^2$/NDF: 33136132.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 25.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:30.0/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.7/20

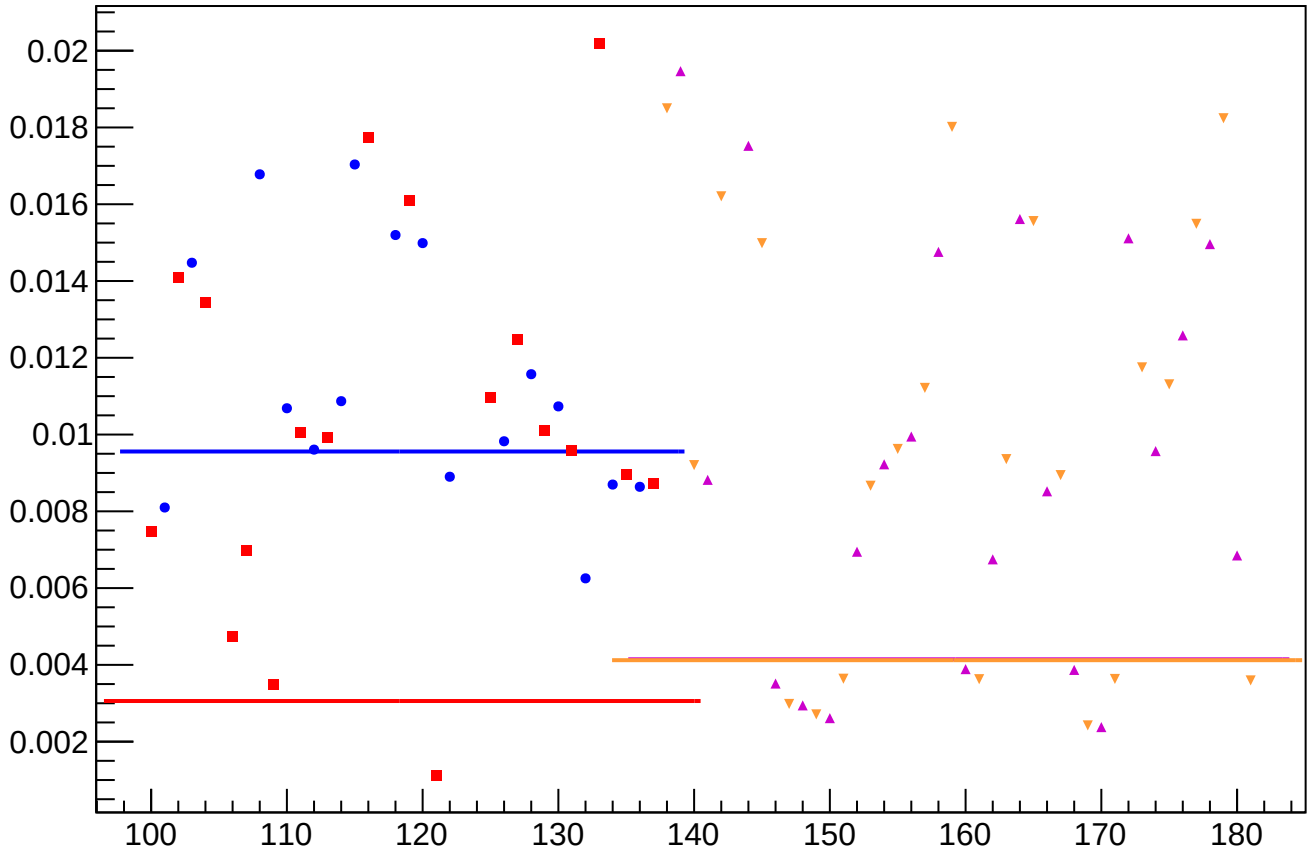
Left: 0.000+/-0.000 $\chi^2$/NDF: 57.8/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 41.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:51.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:45.8/39

All: 0.000+/-0.000 $\chi^2$/NDF: 99.8/76




Right In: 0.010+/-0.000 $\chi^2$/NDF: 926018.8/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:11630869.8/21

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 8122378.4/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:10726760.0/20

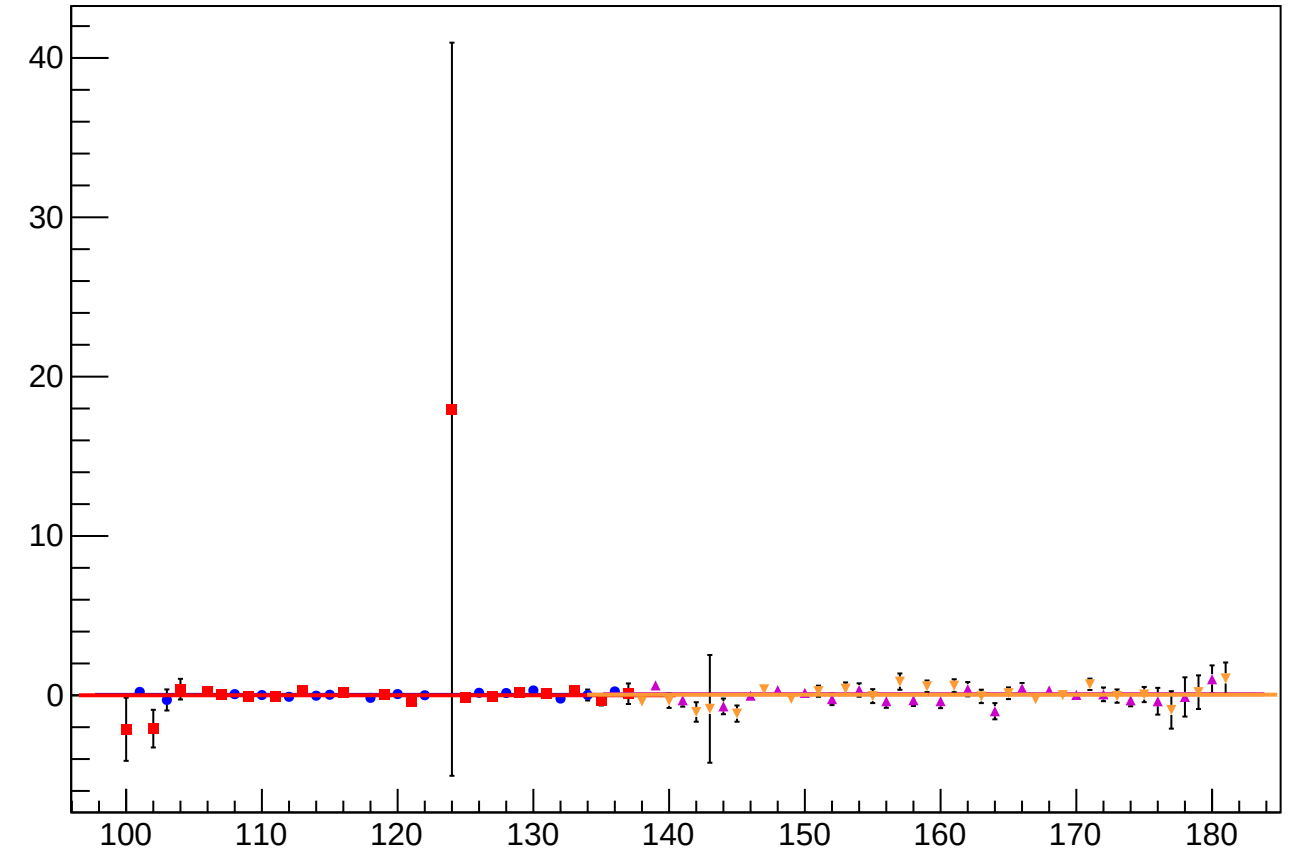
Left: 0.004+/-0.000 $\chi^2$/NDF: 22357952.3/42

Right: 0.004+/-0.000 $\chi^2$/NDF: 13944710.4/33

In: 0.005+/-0.000 $\chi^2$/NDF:15408520.8/36

Out: 0.004+/-0.000 $\chi^2$/NDF:20211044.3/39

All: 0.004+/-0.000 $\chi^2$/NDF: 36322046.5/76




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: 0.040+/-0.078 $\chi^2$/NDF:28.0/22

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.071+/-0.076 $\chi^2$/NDF:23.6/20

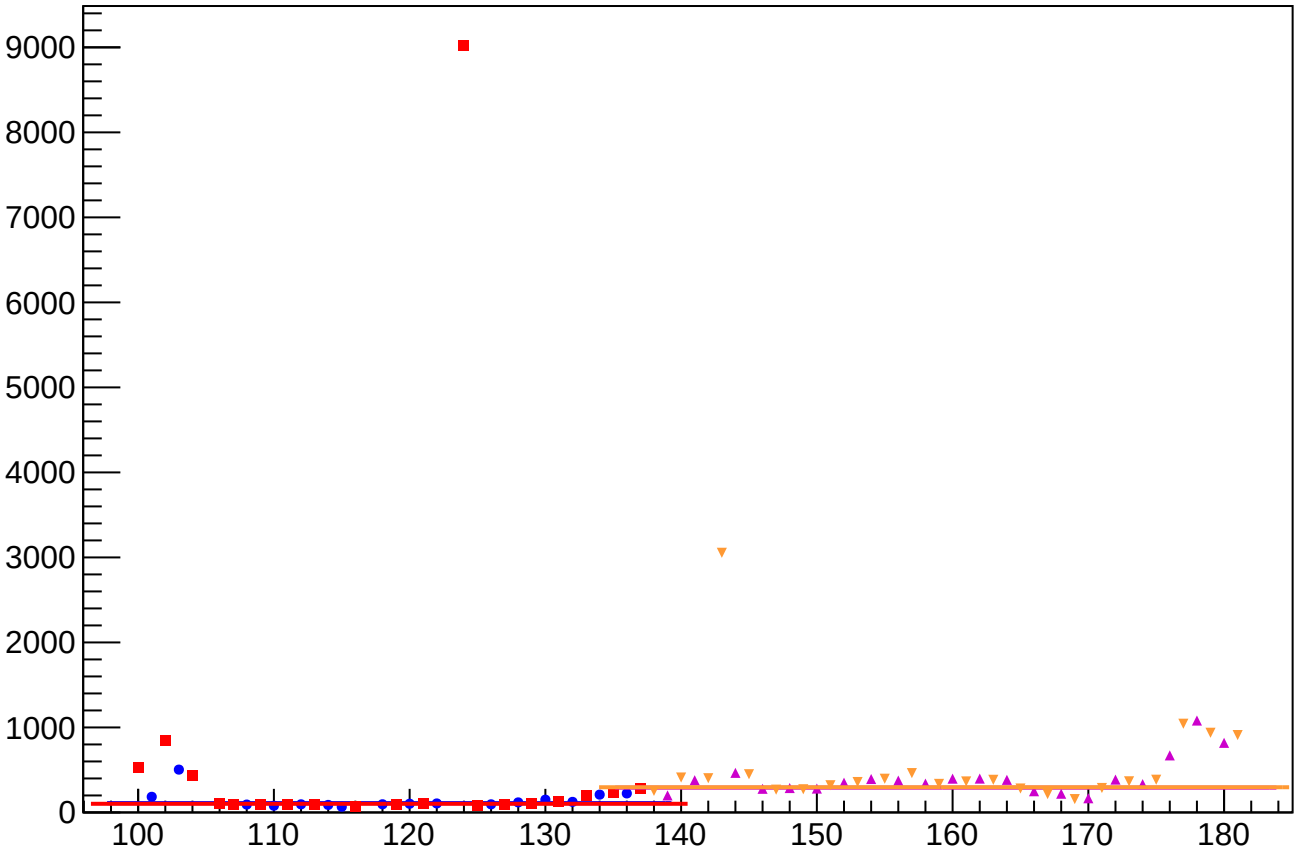
Left: 0.056+/-0.054 $\chi^2$/NDF: 51.8/43

Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.039+/-0.039 $\chi^2$/NDF:32.7/36

Out: 0.012+/-0.038 $\chi^2$/NDF:50.6/41

All: 0.025+/-0.027 $\chi^2$/NDF: 83.6/78




Right In: 109.989+/-0.032 $\chi^2$/NDF: 1930489.2/15

Left Out: 296.553+/-0.055 $\chi^2$/NDF:6215771.6/22

Right Out: 101.853+/-0.031 $\chi^2$/NDF: 2589710.5/18

Left In: 291.666+/-0.054 $\chi^2$/NDF:4401748.8/20

Left: 294.071+/-0.039 $\chi^2$/NDF: 10621543.1/43

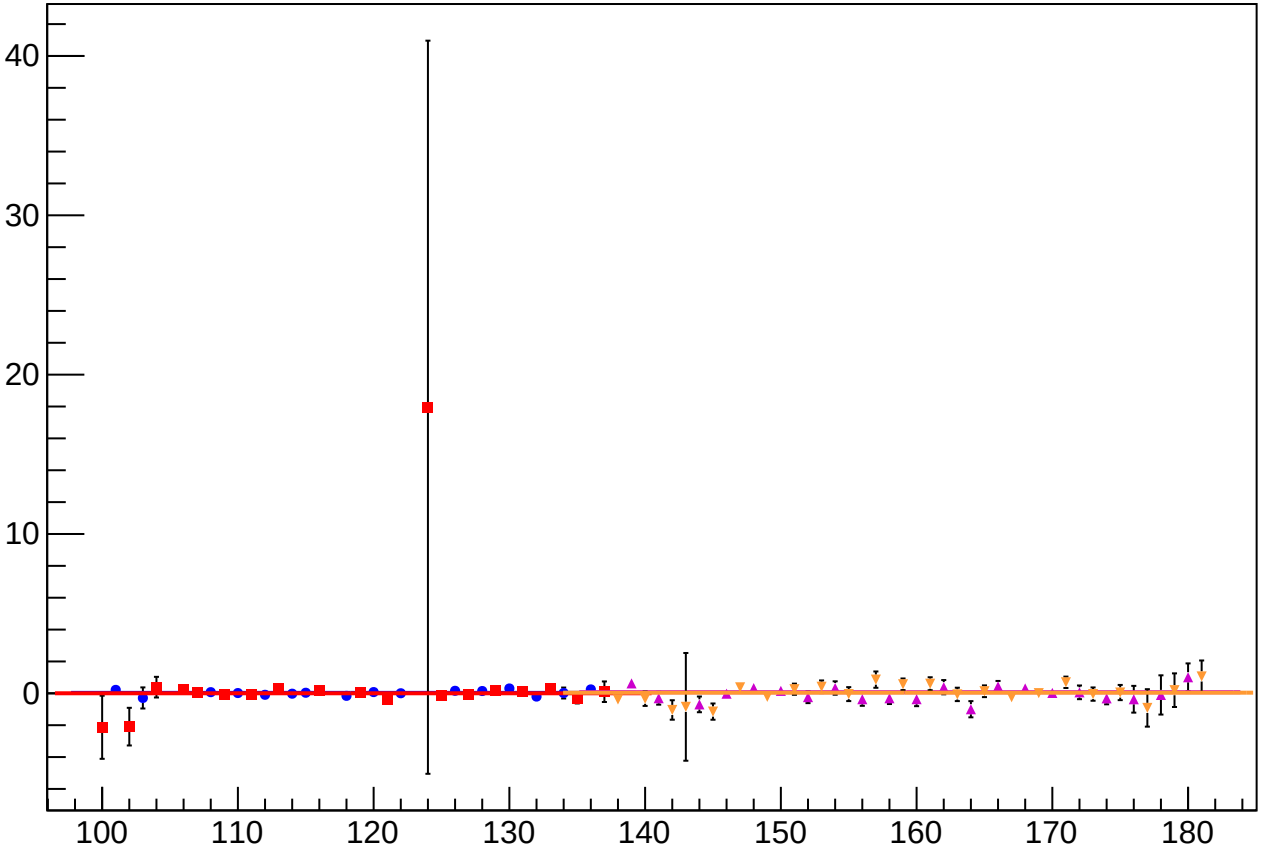
Right: 105.744+/-0.022 $\chi^2$/NDF: 4553853.6/34

In: 157.212+/-0.028 $\chi^2$/NDF:14693423.0/36

Out: 148.138+/-0.027 $\chi^2$/NDF:18386748.8/41

All: 152.545+/-0.019 $\chi^2$/NDF: 33135946.1/78

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: 0.040+/-0.078 $\chi^2$/NDF:28.0/22

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.071+/-0.076 $\chi^2$/NDF:23.6/20

Left: 0.056+/-0.054 $\chi^2$/NDF: 51.8/43

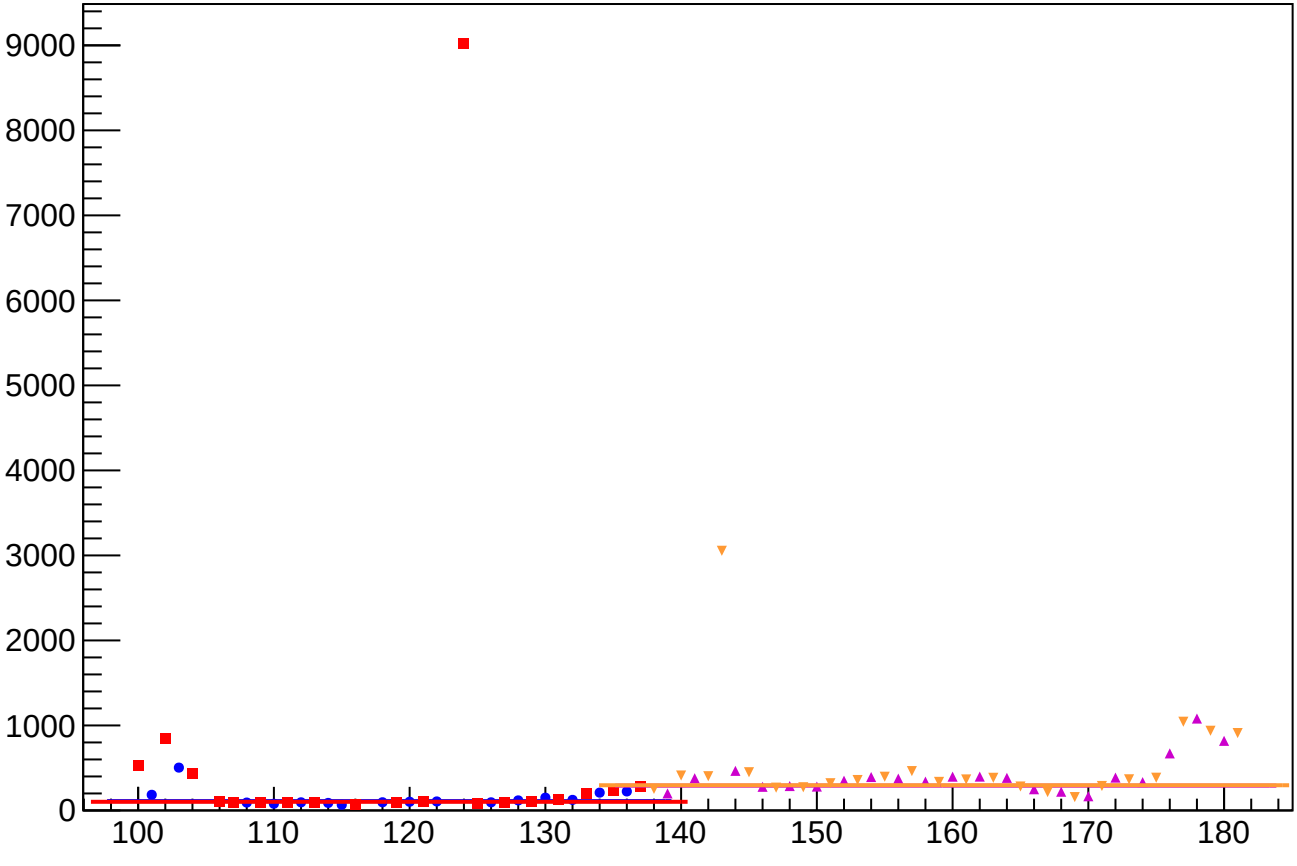
Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.039+/-0.039 $\chi^2$/NDF:32.7/36

Out: 0.012+/-0.038 $\chi^2$/NDF:50.6/41

All: 0.025+/-0.027 $\chi^2$/NDF: 83.6/78

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 109.989+/-0.032 $\chi^2$/NDF: 1930489.2/15

Left Out: 296.553+/-0.055 $\chi^2$/NDF:6215771.6/22

Right Out: 101.853+/-0.031 $\chi^2$/NDF: 2589710.5/18

Left In: 291.666+/-0.054 $\chi^2$/NDF:4401748.8/20

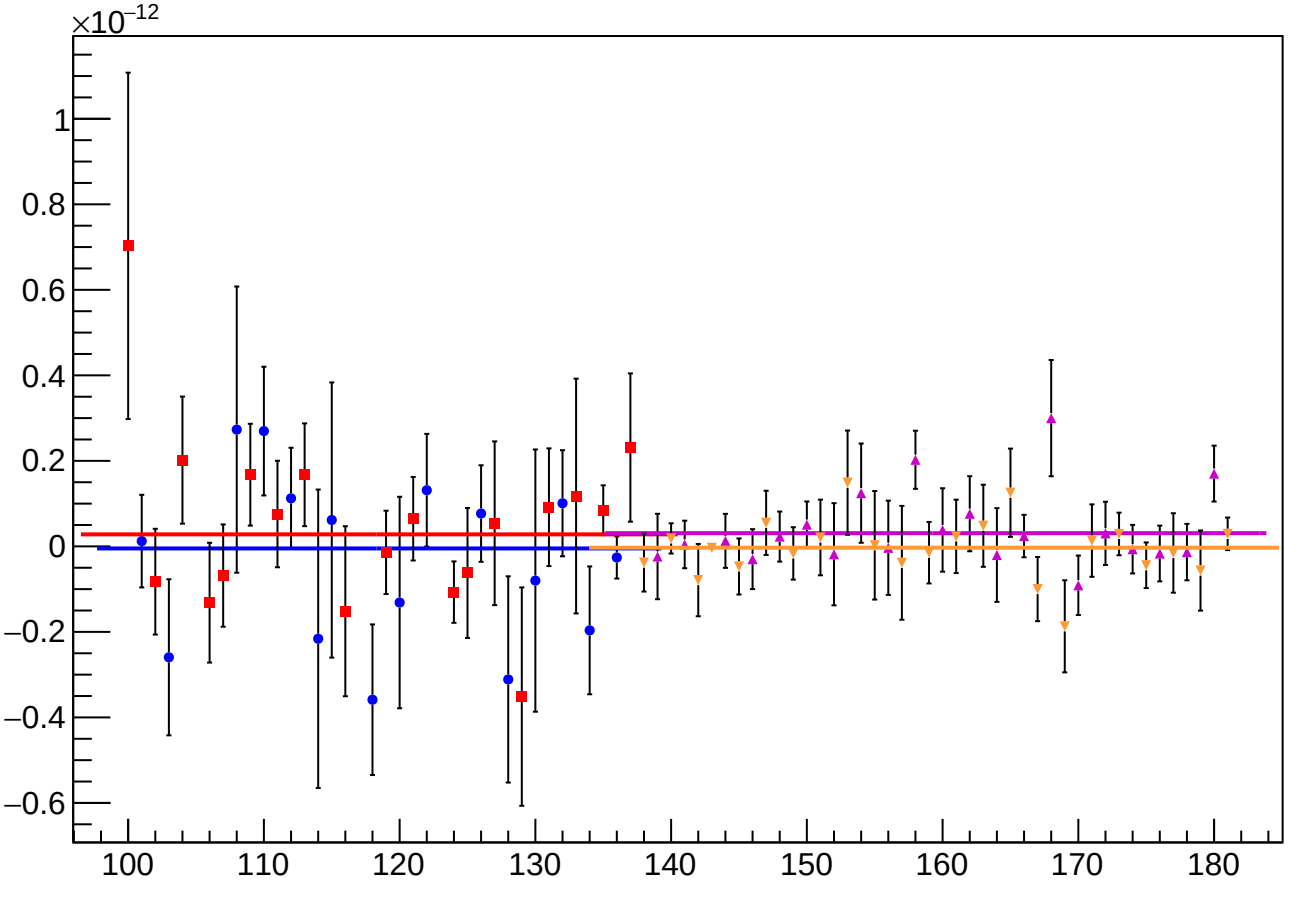
Left: 294.071+/-0.039 $\chi^2$/NDF: 10621543.1/43

Right: 105.744+/-0.022 $\chi^2$/NDF: 4553853.6/34

In: 157.212+/-0.028 $\chi^2$/NDF:14693423.0/36

Out: 148.138+/-0.027 $\chi^2$/NDF:18386748.8/41

All: 152.545+/-0.019 $\chi^2$/NDF: 33135946.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:12.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:22.3/20

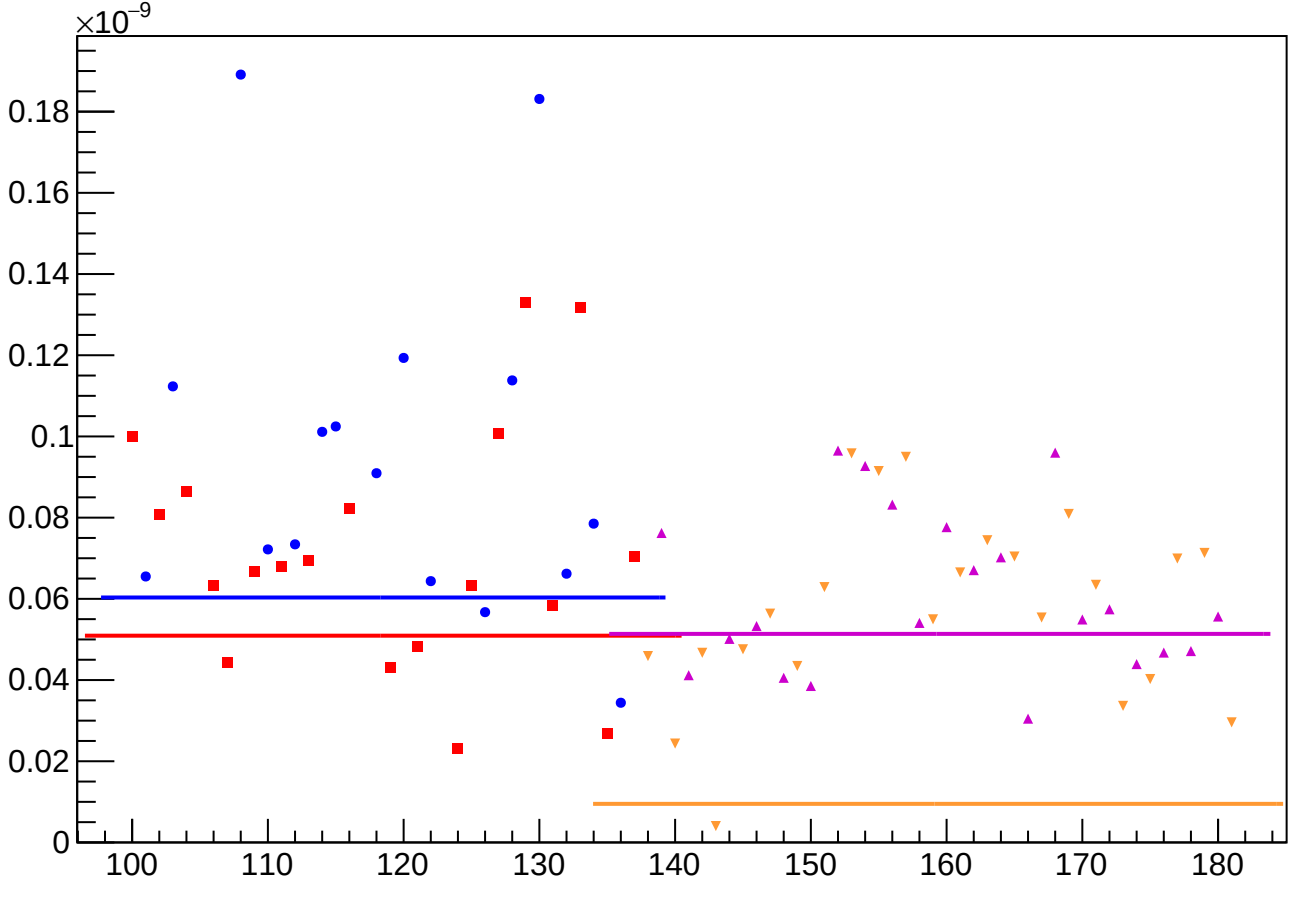
Left: 0.000+/-0.000 $\chi^2$/NDF: 39.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:40.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:33.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 77.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1746170.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17812115.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1667004.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2000921.9/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 32818298.5/43

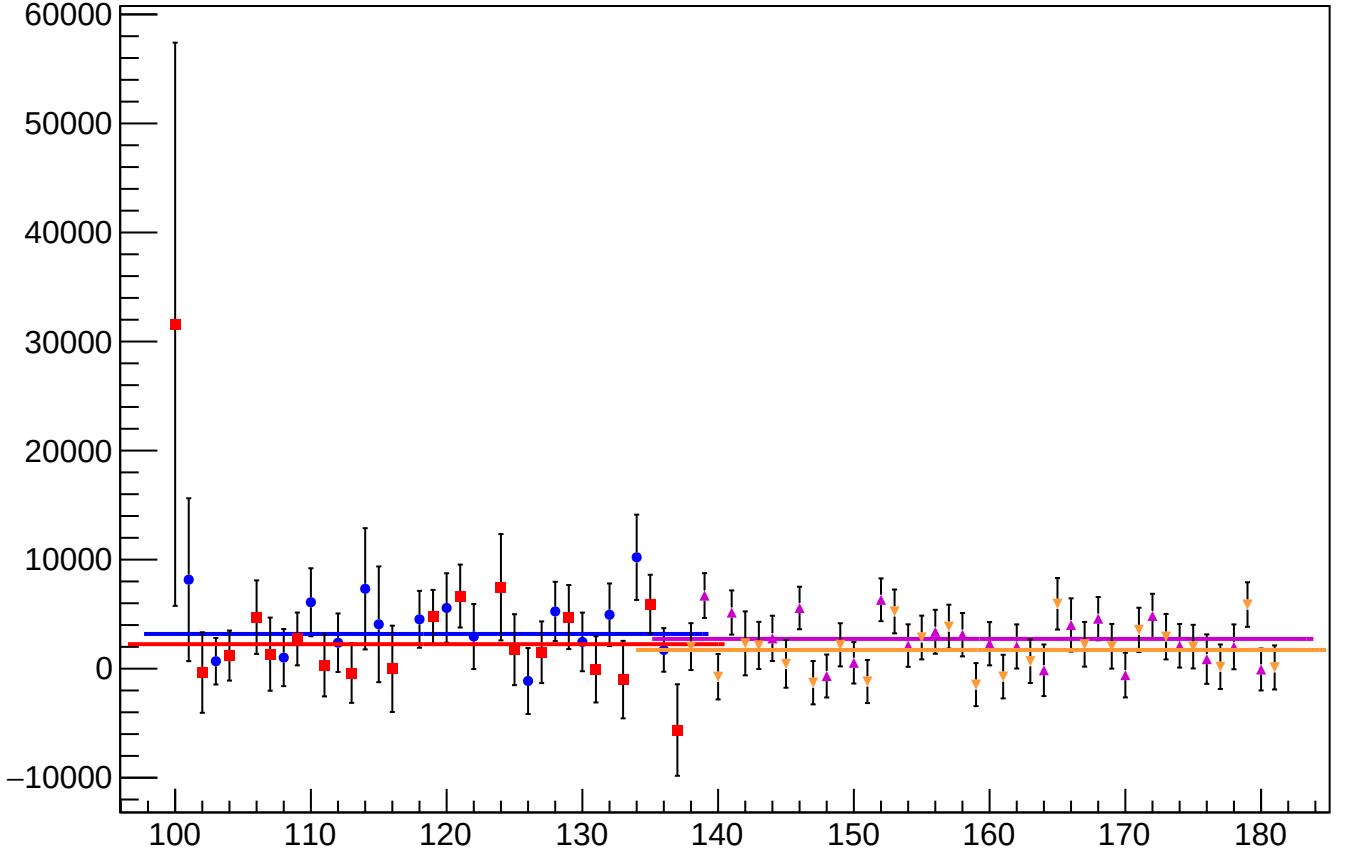
Right: 0.000+/-0.000 $\chi^2$/NDF: 3514375.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:3875613.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:23951121.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 43832814.4/78

# reg_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3183.705+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 1717.769+/-432.063 $\chi^2$/NDF:25.1/22

Right Out: 2246.057+/-710.912 $\chi^2$/NDF: 16.5/18

Left In: 2727.997+/-444.367 $\chi^2$/NDF:24.7/20

Left: 2208.703+/-309.773 $\chi^2$/NDF: 52.4/43

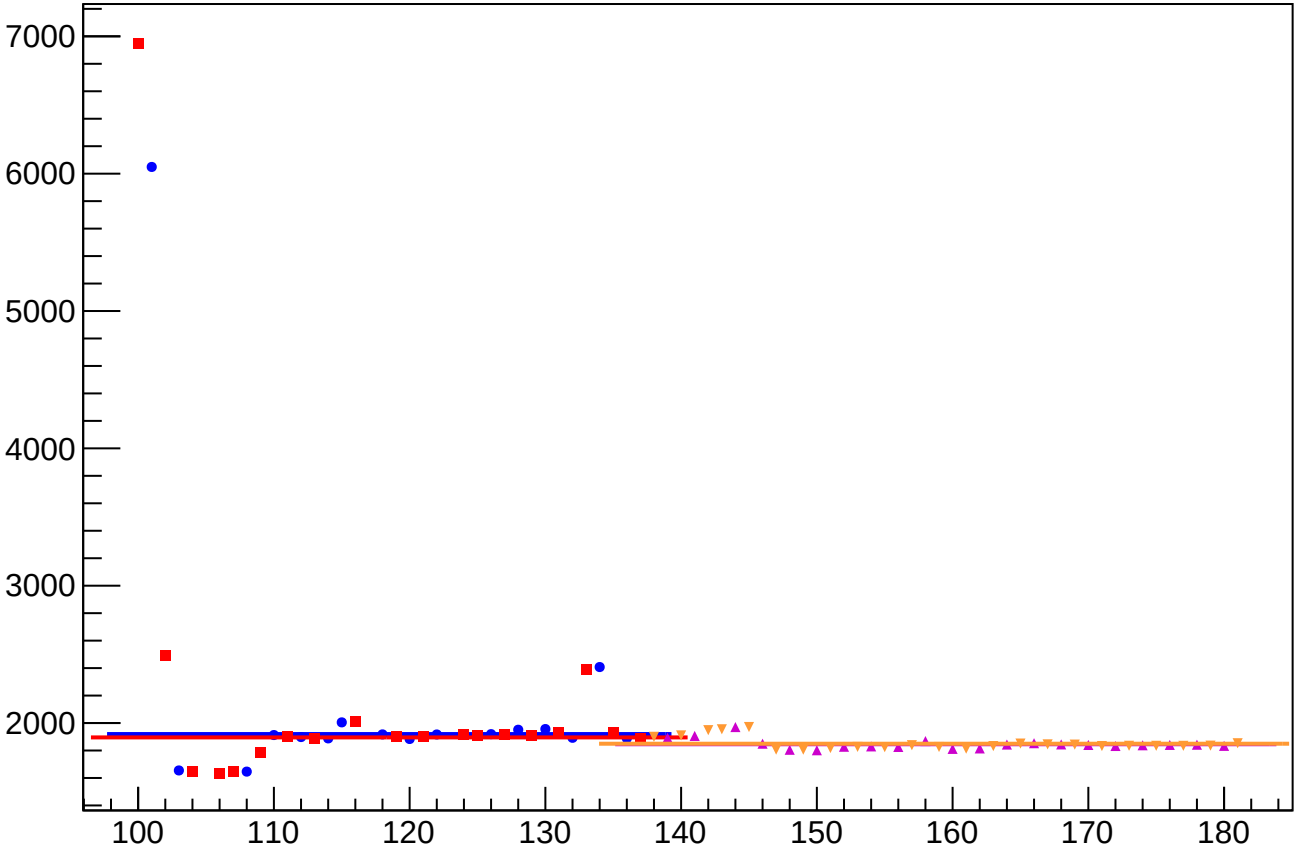
Right: 2701.735+/-509.689 $\chi^2$/NDF: 29.1/34

In: 2850.925+/-379.732 $\chi^2$/NDF:36.7/36

Out: 1860.268+/-369.221 $\chi^2$/NDF:42.0/41

All: 2341.696+/-264.717 $\chi^2$/NDF: 82.2/78

# reg_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697331.5/15

Left Out: 1849.401+/-0.306 $\chi^2$/NDF:20705.8/22

Right Out: 1895.361+/-0.501 $\chi^2$/NDF: 222273.9/18

Left In: 1845.497+/-0.314 $\chi^2$/NDF:13990.3/20

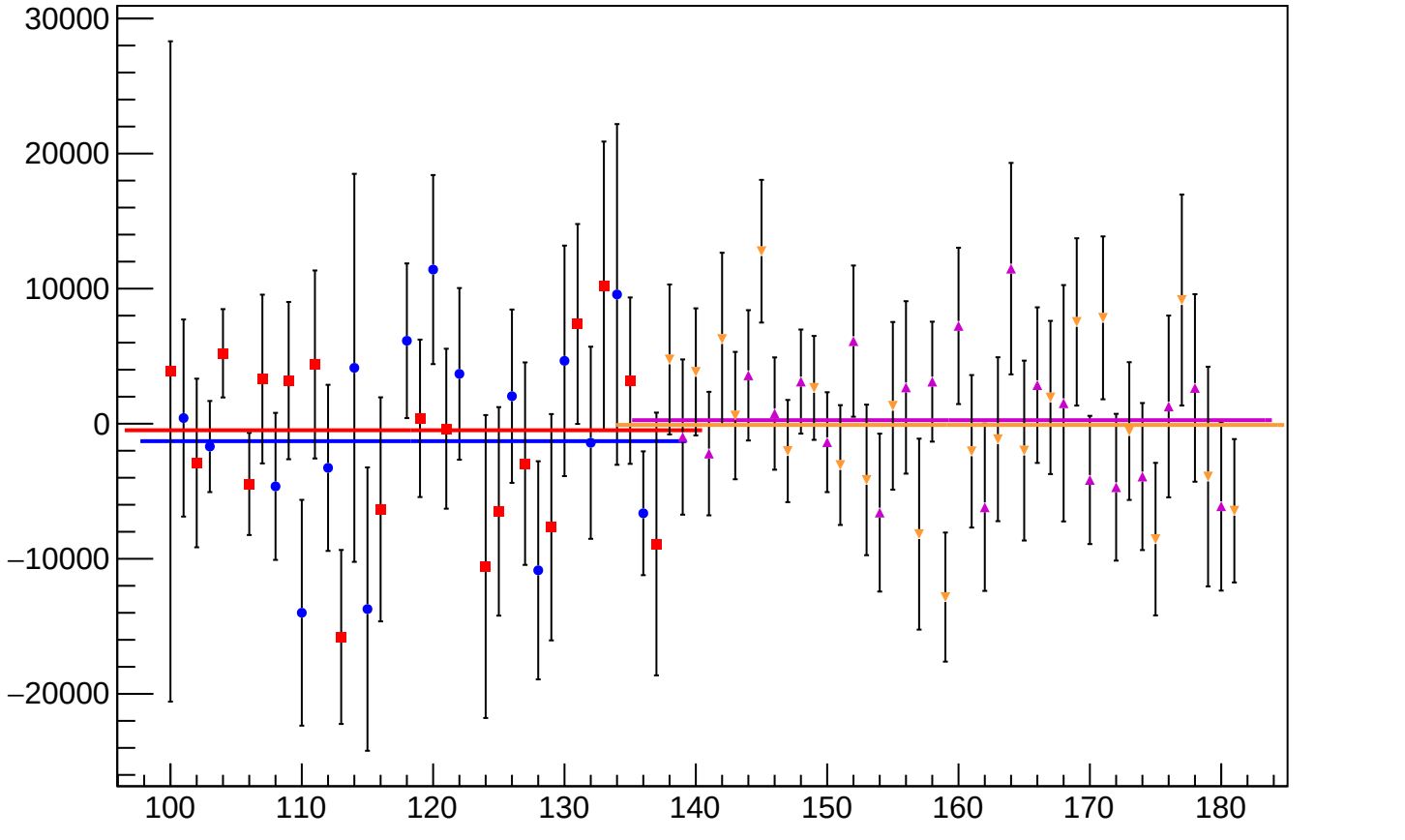
Left: 1847.504+/-0.219 $\chi^2$/NDF: 34775.4/43

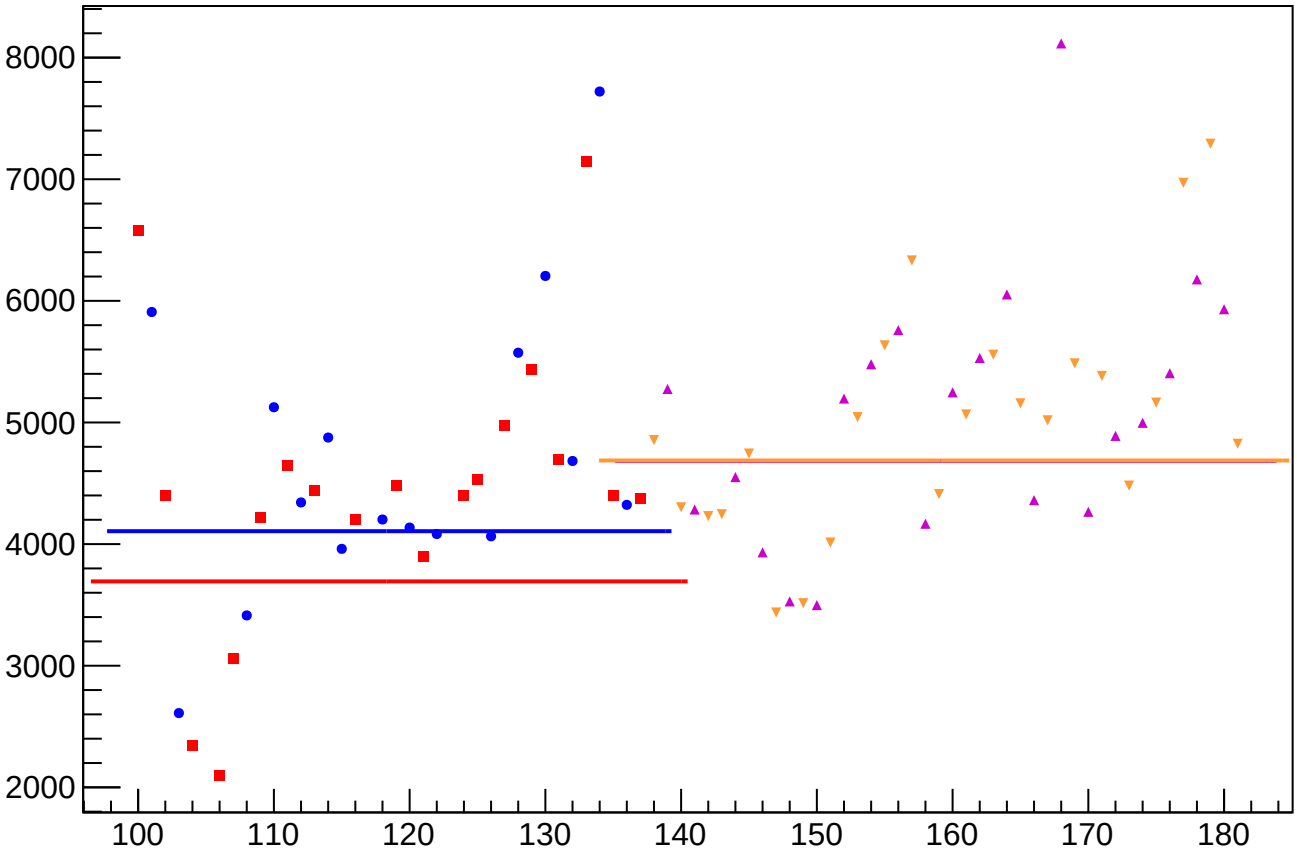
Right: 1907.209+/-0.360 $\chi^2$/NDF: 920760.5/34

In: 1865.548+/-0.269 $\chi^2$/NDF:726416.9/36

Out: 1861.861+/-0.261 $\chi^2$/NDF:249115.0/41

All: 1863.651+/-0.187 $\chi^2$/NDF: 975628.9/78


asym_atr_avg_reg_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -1290.495+/-1585.432 χ²/NDF: 14.3/15
Left Out: -89.812+/-1120.988 χ²/NDF:27.5/22
Right Out: -485.214+/-1437.465 χ²/NDF: 17.2/18
Left In: 261.462+/-1153.293 χ²/NDF:12.9/20
Left: 80.836+/-803.836 χ²/NDF: 40.5/43
Right: -848.531+/-1064.920 χ²/NDF: 31.6/34
In: -275.584+/-932.639 χ²/NDF:27.8/36
Out: -239.340+/-883.972 χ²/NDF:44.8/41
All: -256.492+/-641.578 χ²/NDF: 72.6/78




Right In: 4106.141+/-1.121 $\chi^2$/NDF: 956130.4/15

Left Out: 4687.508+/-0.793 $\chi^2$/NDF:1185022.6/22

Right Out: 3693.266+/-1.016 $\chi^2$/NDF: 1356643.3/18

Left In: 4682.847+/-0.816 $\chi^2$/NDF:1278211.7/20

Left: 4685.244+/-0.568 $\chi^2$/NDF: 2463251.2/43

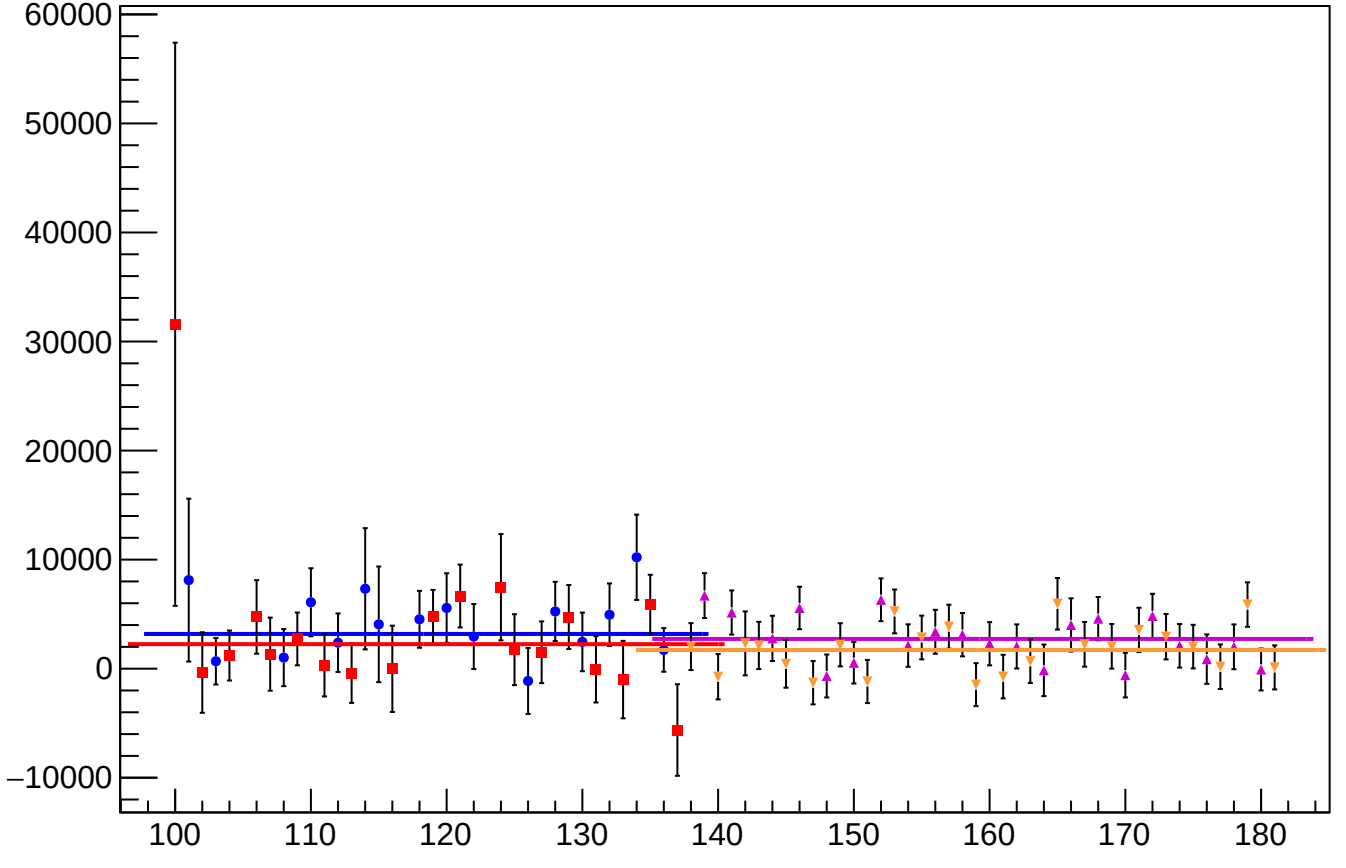
Right: 3879.542+/-0.753 $\chi^2$/NDF: 2387214.5/34

In: 4483.281+/-0.659 $\chi^2$/NDF:2407399.7/36

Out: 4311.520+/-0.625 $\chi^2$/NDF:3136635.1/41

All: 4392.802+/-0.454 $\chi^2$/NDF: 5579767.9/78

# cor_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3182.973+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 1717.663+/-432.063 $\chi^2$/NDF:25.1/22

Right Out: 2247.193+/-710.916 $\chi^2$/NDF: 16.5/18

Left In: 2727.969+/-444.367 $\chi^2$/NDF:24.7/20

Left: 2208.635+/-309.773 $\chi^2$/NDF: 52.4/43

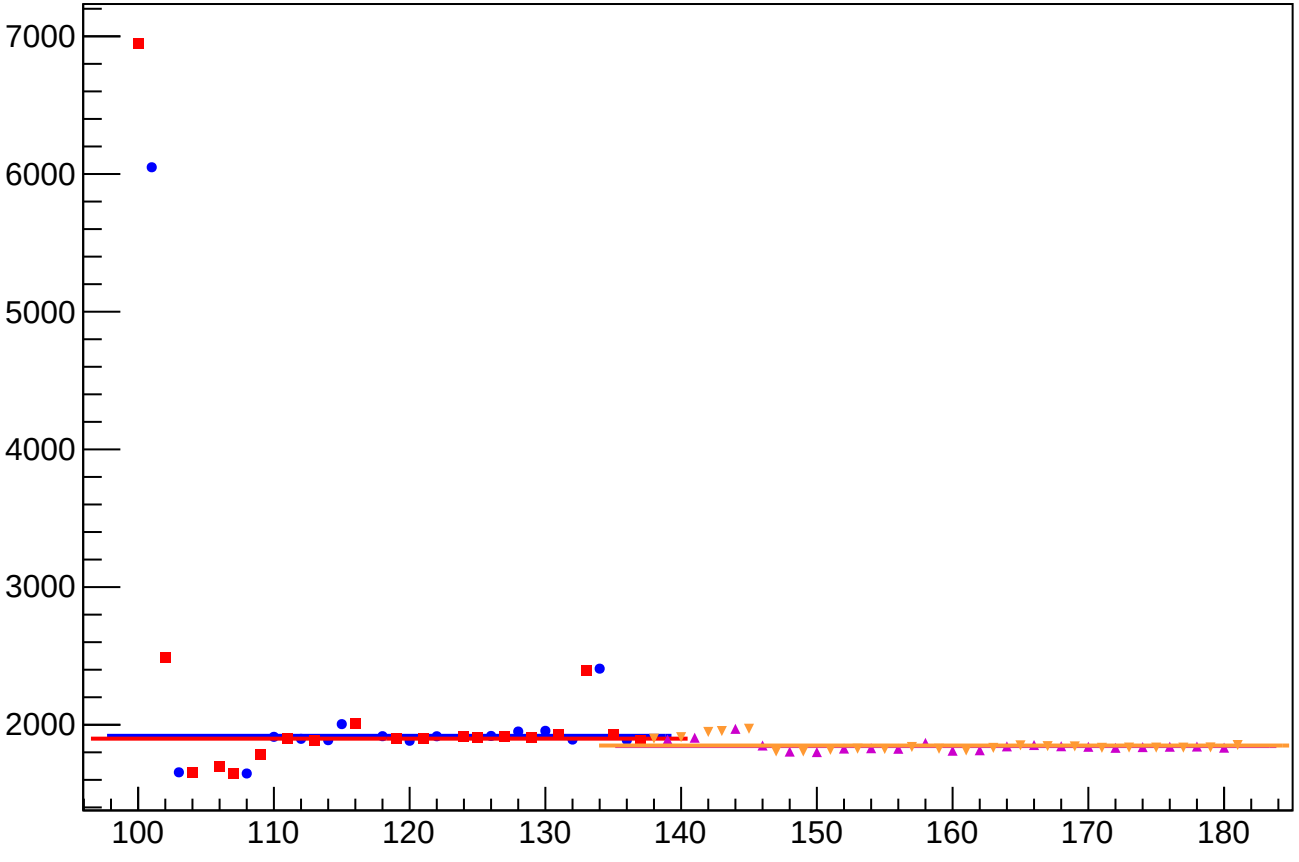
Right: 2701.966+/-509.691 $\chi^2$/NDF: 29.1/34

In: 2850.707+/-379.732 $\chi^2$/NDF:36.7/36

Out: 1860.496+/-369.222 $\chi^2$/NDF:42.0/41

All: 2341.708+/-264.717 $\chi^2$/NDF: 82.2/78

# cor_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697330.6/15

Left Out: 1849.401+/-0.306 $\chi^2$/NDF:20705.8/22

Right Out: 1899.364+/-0.502 $\chi^2$/NDF: 215654.1/18

Left In: 1845.497+/-0.314 $\chi^2$/NDF:13990.3/20

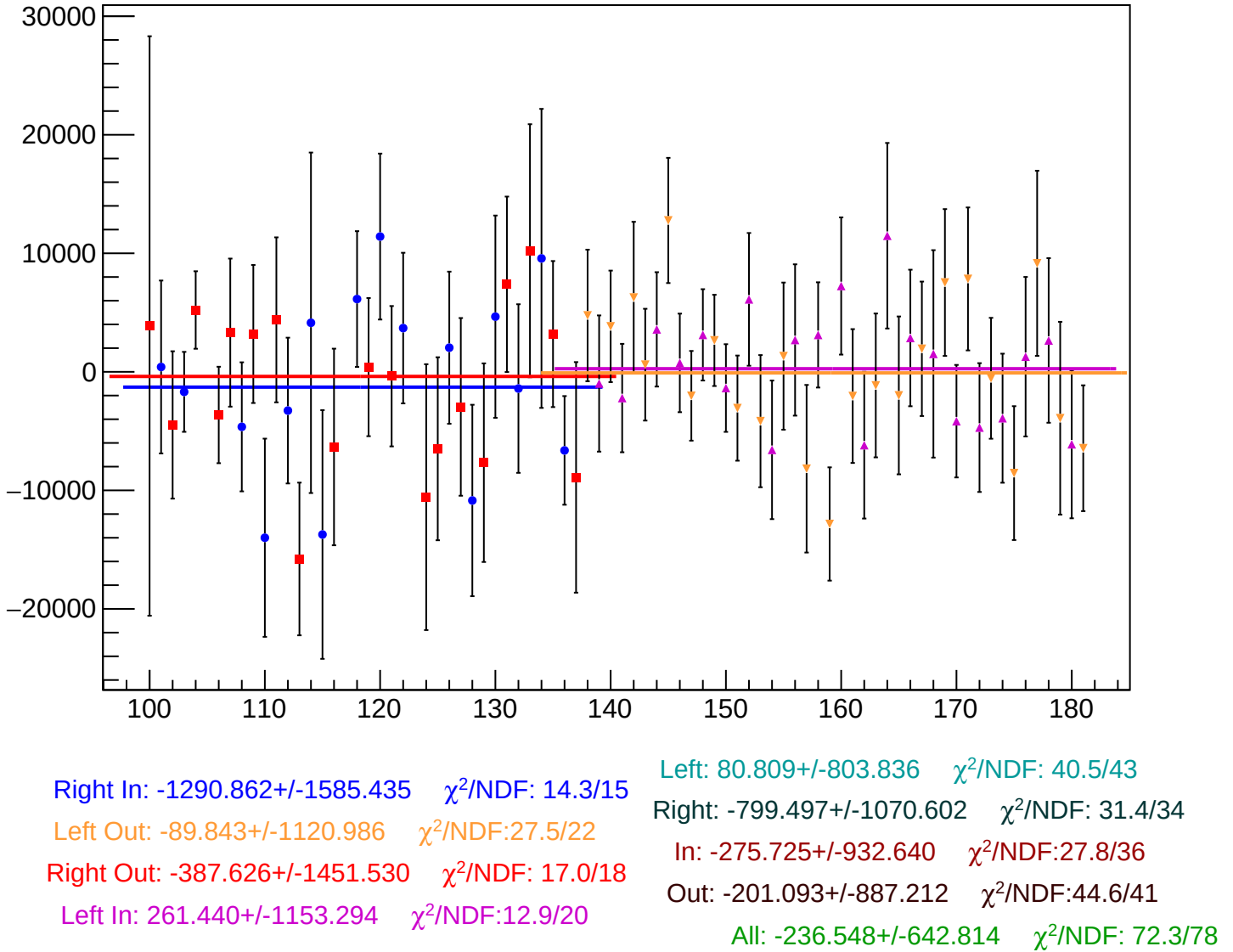
Left: 1847.504+/-0.219 $\chi^2$/NDF: 34775.4/43

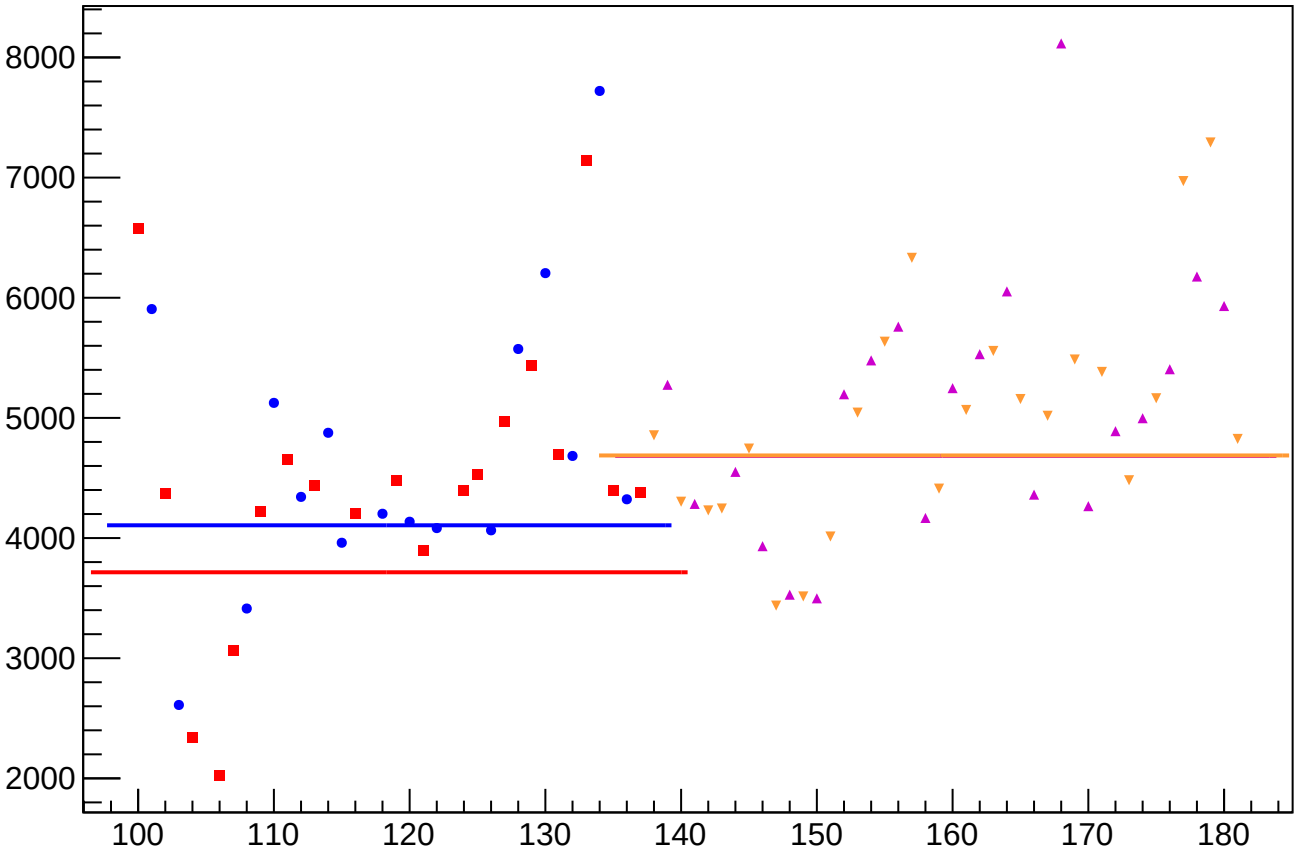
Right: 1909.293+/-0.360 $\chi^2$/NDF: 913791.4/34

In: 1865.548+/-0.269 $\chi^2$/NDF:726416.2/36

Out: 1862.909+/-0.261 $\chi^2$/NDF:243590.4/41

All: 1864.191+/-0.187 $\chi^2$/NDF: 970056.2/78


asym_atr_avg_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -1290.862+/-1585.435 χ²/NDF: 14.3/15
Left Out: -89.843+/-1120.986 χ²/NDF:27.5/22
Right Out: -387.626+/-1451.530 χ²/NDF: 17.0/18
Left In: 261.440+/-1153.294 χ²/NDF:12.9/20
Left: 80.809+/-803.836 χ²/NDF: 40.5/43
Right: -799.497+/-1070.602 χ²/NDF: 31.4/34
In: -275.725+/-932.640 χ²/NDF:27.8/36
Out: -201.093+/-887.212 χ²/NDF:44.6/41
All: -236.548+/-642.814 χ²/NDF: 72.3/78




Right In: 4106.234+/-1.121 $\chi^2$/NDF: 955631.2/15

Left Out: 4687.497+/-0.793 $\chi^2$/NDF:1185048.2/22

Right Out: 3715.202+/-1.026 $\chi^2$/NDF: 1335100.7/18

Left In: 4682.850+/-0.816 $\chi^2$/NDF:1278207.0/20

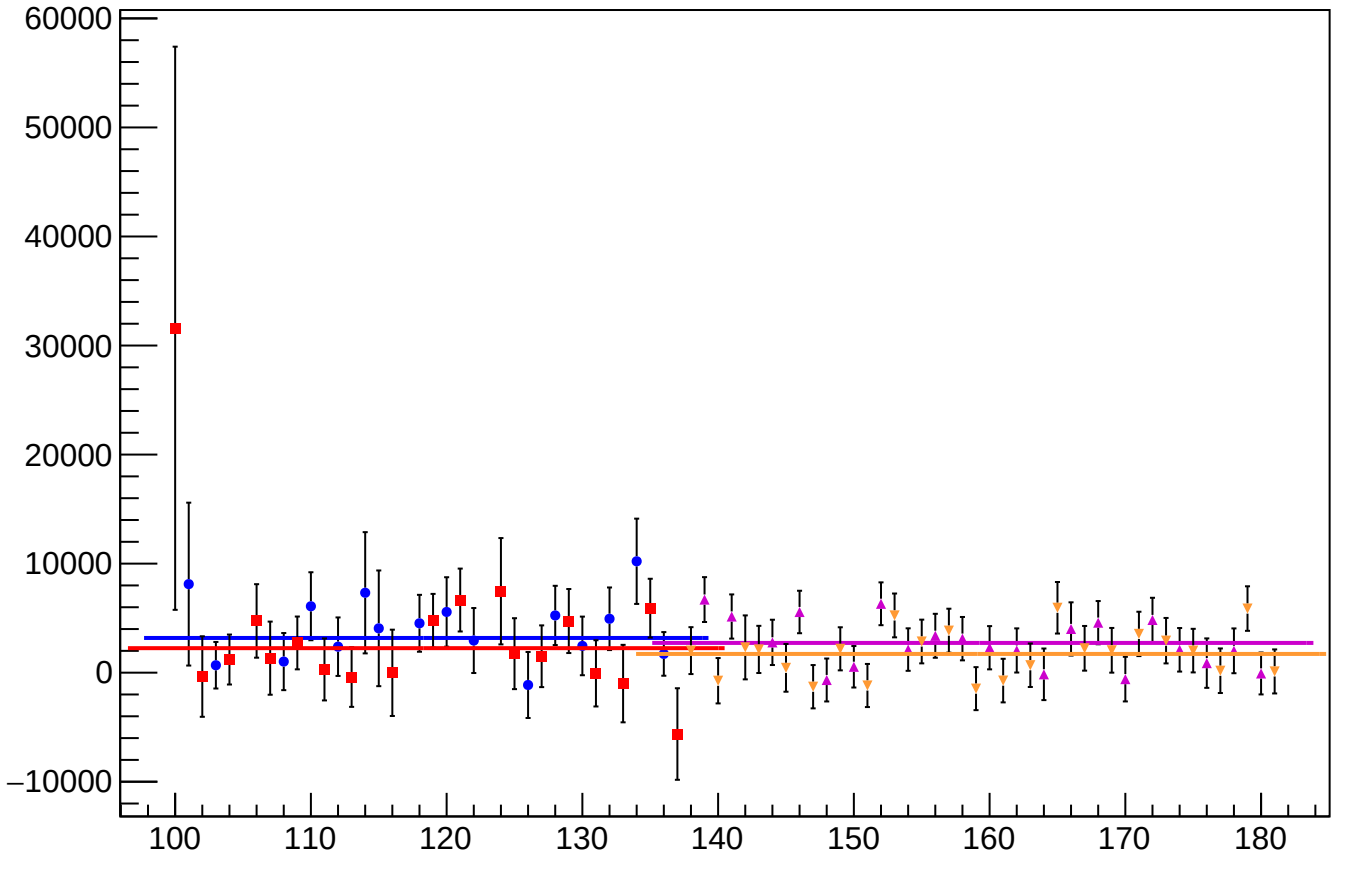
Left: 4685.240+/-0.568 $\chi^2$/NDF: 2463271.9/43

Right: 3893.510+/-0.757 $\chi^2$/NDF: 2356917.1/34

In: 4483.315+/-0.659 $\chi^2$/NDF:2406841.4/36

Out: 4324.252+/-0.627 $\chi^2$/NDF:3082268.1/41

All: 4399.815+/-0.455 $\chi^2$/NDF: 5519648.7/78




Right In: 3182.973+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 1717.663+/-432.063 $\chi^2$/NDF:25.1/22

Right Out: 2247.193+/-710.916 $\chi^2$/NDF: 16.5/18

Left In: 2727.969+/-444.367 $\chi^2$/NDF:24.7/20

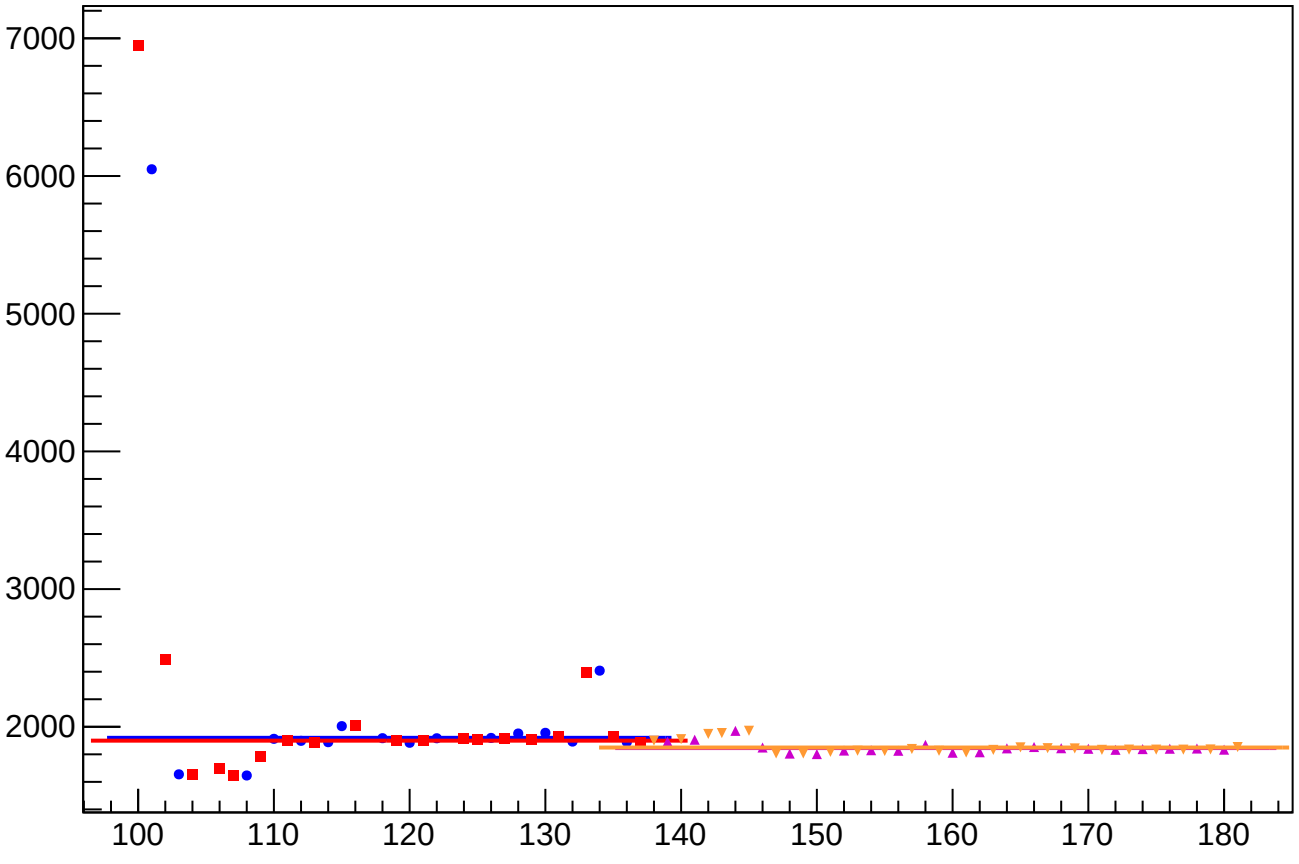
Left: 2208.635+/-309.773 $\chi^2$/NDF: 52.4/43

Right: 2701.966+/-509.691 $\chi^2$/NDF: 29.1/34

In: 2850.707+/-379.732 $\chi^2$/NDF:36.7/36

Out: 1860.496+/-369.222 $\chi^2$/NDF:42.0/41

All: 2341.708+/-264.717 $\chi^2$/NDF: 82.2/78




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697330.6/15

Left Out: 1849.401+/-0.306 $\chi^2$/NDF:20705.8/22

Right Out: 1899.364+/-0.502 $\chi^2$/NDF: 215654.1/18

Left In: 1845.497+/-0.314 $\chi^2$/NDF:13990.3/20

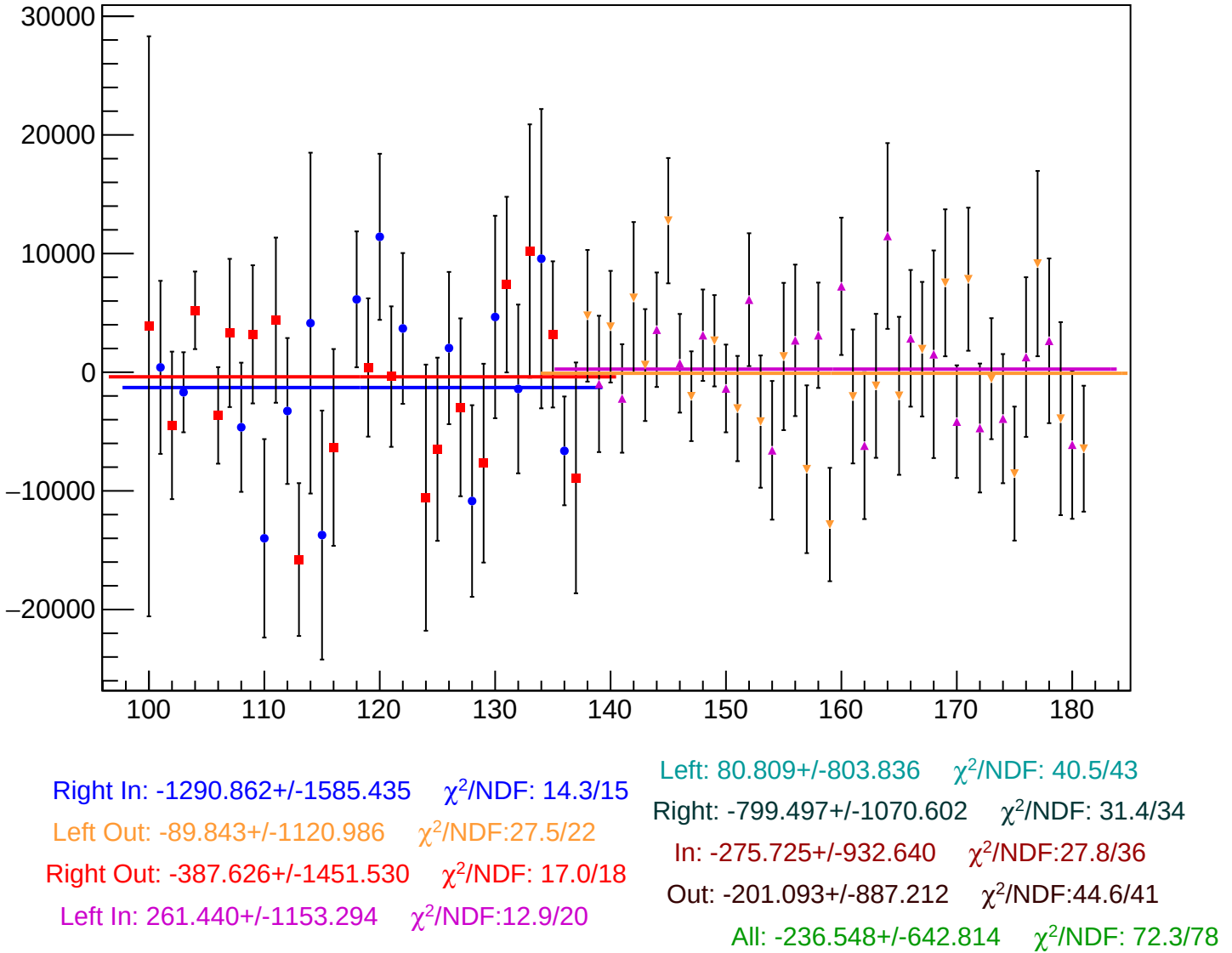
Left: 1847.504+/-0.219 $\chi^2$/NDF: 34775.4/43

Right: 1909.293+/-0.360 $\chi^2$/NDF: 913791.4/34

In: 1865.548+/-0.269 $\chi^2$/NDF:726416.2/36

Out: 1862.909+/-0.261 $\chi^2$/NDF:243590.4/41

All: 1864.191+/-0.187 $\chi^2$/NDF: 970056.2/78


asym_atr_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
30000
20000
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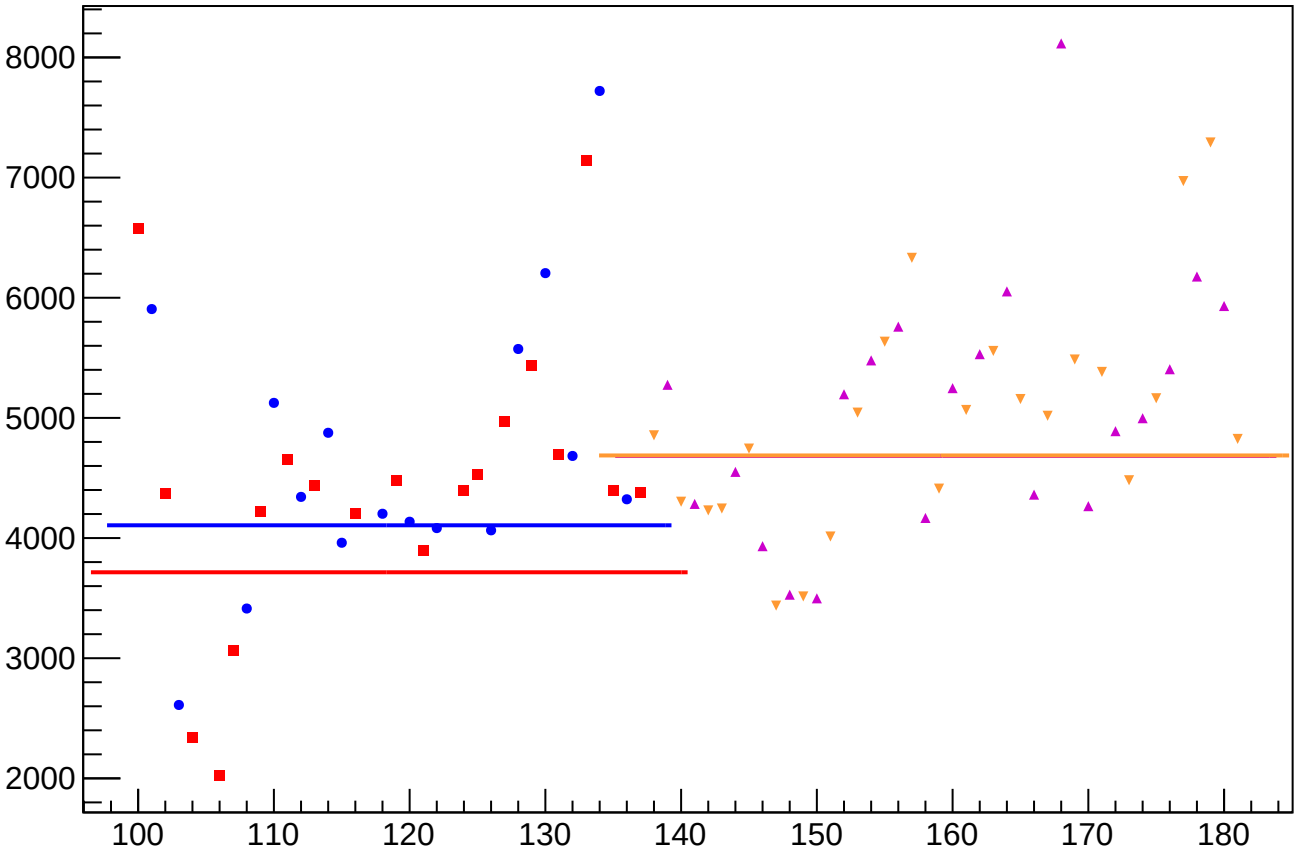
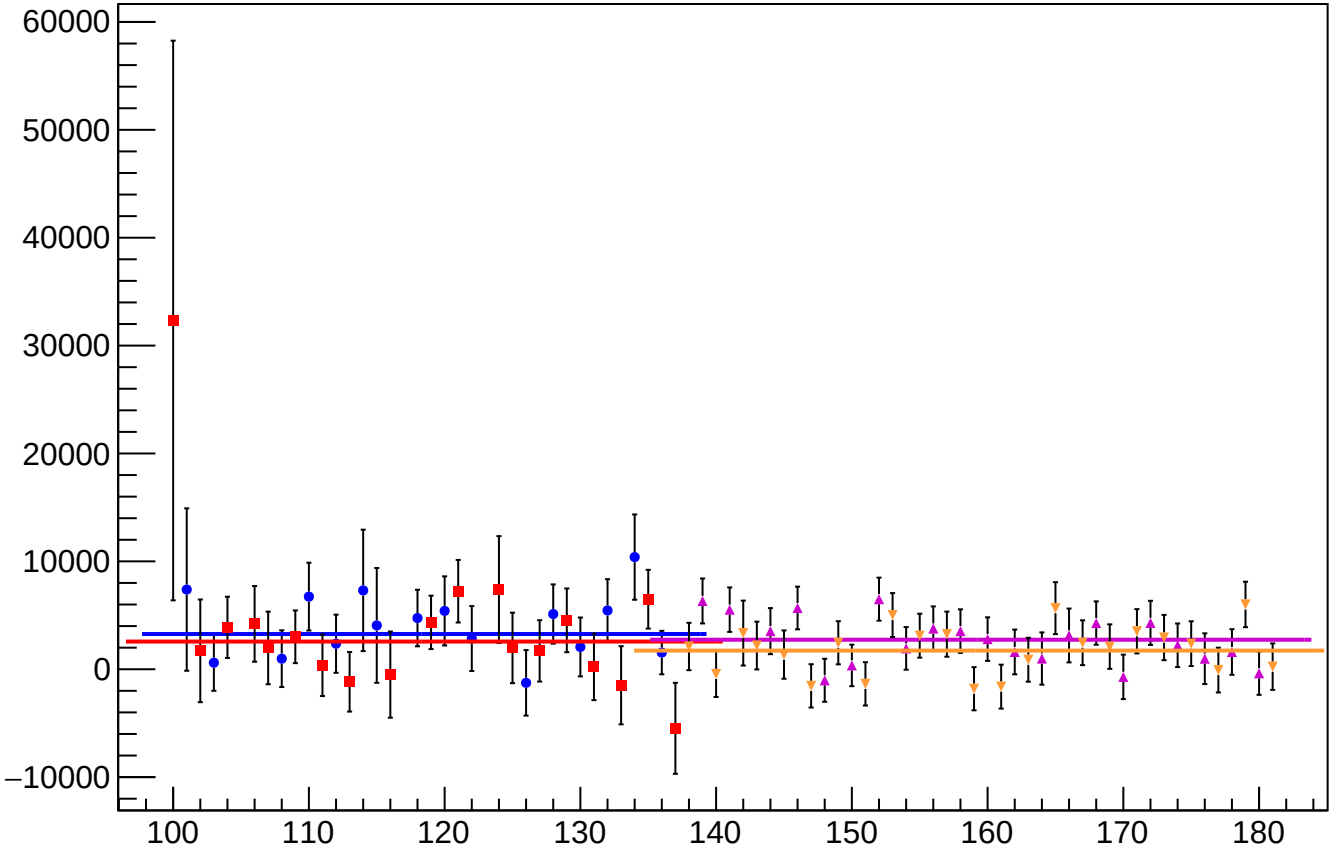
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -1290.862+/-1585.435 χ²/NDF: 14.3/15
Left Out: -89.843+/-1120.986 χ²/NDF:27.5/22
Right Out: -387.626+/-1451.530 χ²/NDF: 17.0/18
Left In: 261.440+/-1153.294 χ²/NDF:12.9/20
Left: 80.809+/-803.836 χ²/NDF: 40.5/43
Right: -799.497+/-1070.602 χ²/NDF: 31.4/34
In: -275.725+/-932.640 χ²/NDF:27.8/36
Out: -201.093+/-887.212 χ²/NDF:44.6/41
All: -236.548+/-642.814 χ²/NDF: 72.3/78


asym_atr_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
100
110
120
130
140
150
160
170
180
Right In: 4106.234+/-1.121 χ²/NDF: 955631.2/15
Left Out: 4687.497+/-0.793 χ²/NDF:1185048.2/22
Right Out: 3715.202+/-1.026 χ²/NDF: 1335100.7/18
Left In: 4682.850+/-0.816 χ²/NDF:1278207.0/20
Left: 4685.240+/-0.568 χ²/NDF: 2463271.9/43
Right: 3893.510+/-0.757 χ²/NDF: 2356917.1/34
In: 4483.315+/-0.659 χ²/NDF:2406841.4/36
Out: 4324.252+/-0.627 χ²/NDF:3082268.1/41
All: 4399.815+/-0.455 χ²/NDF: 5519648.7/78

# dit_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3264.639+/-750.865 $\chi^2$/NDF: 12.2/15

Left Out: 1729.262+/-441.127 $\chi^2$/NDF:25.5/22

Right Out: 2566.683+/-734.876 $\chi^2$/NDF: 17.0/18

Left In: 2734.538+/-452.531 $\chi^2$/NDF:24.5/20

Left: 2219.073+/-315.879 $\chi^2$/NDF: 52.6/43

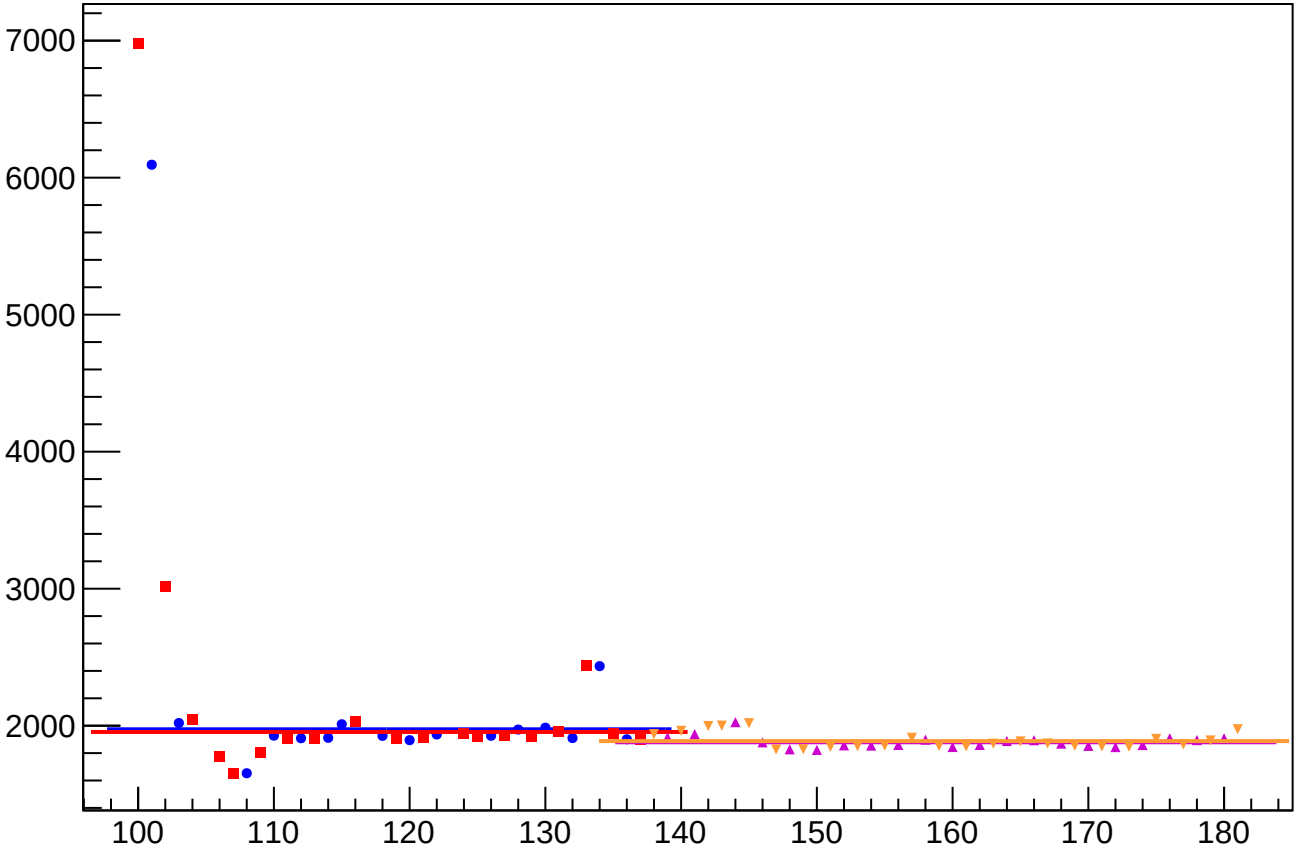
Right: 2908.151+/-525.197 $\chi^2$/NDF: 29.6/34

In: 2875.781+/-387.583 $\chi^2$/NDF:37.0/36

Out: 1951.081+/-378.217 $\chi^2$/NDF:43.5/41

All: 2402.123+/-270.691 $\chi^2$/NDF: 83.5/78

# dit_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1973.748+/-0.531 $\chi^2$/NDF: 665124.2/15

Left Out: 1887.713+/-0.312 $\chi^2$/NDF:31511.4/22

Right Out: 1954.339+/-0.519 $\chi^2$/NDF: 246211.3/18

Left In: 1879.131+/-0.320 $\chi^2$/NDF:18551.3/20

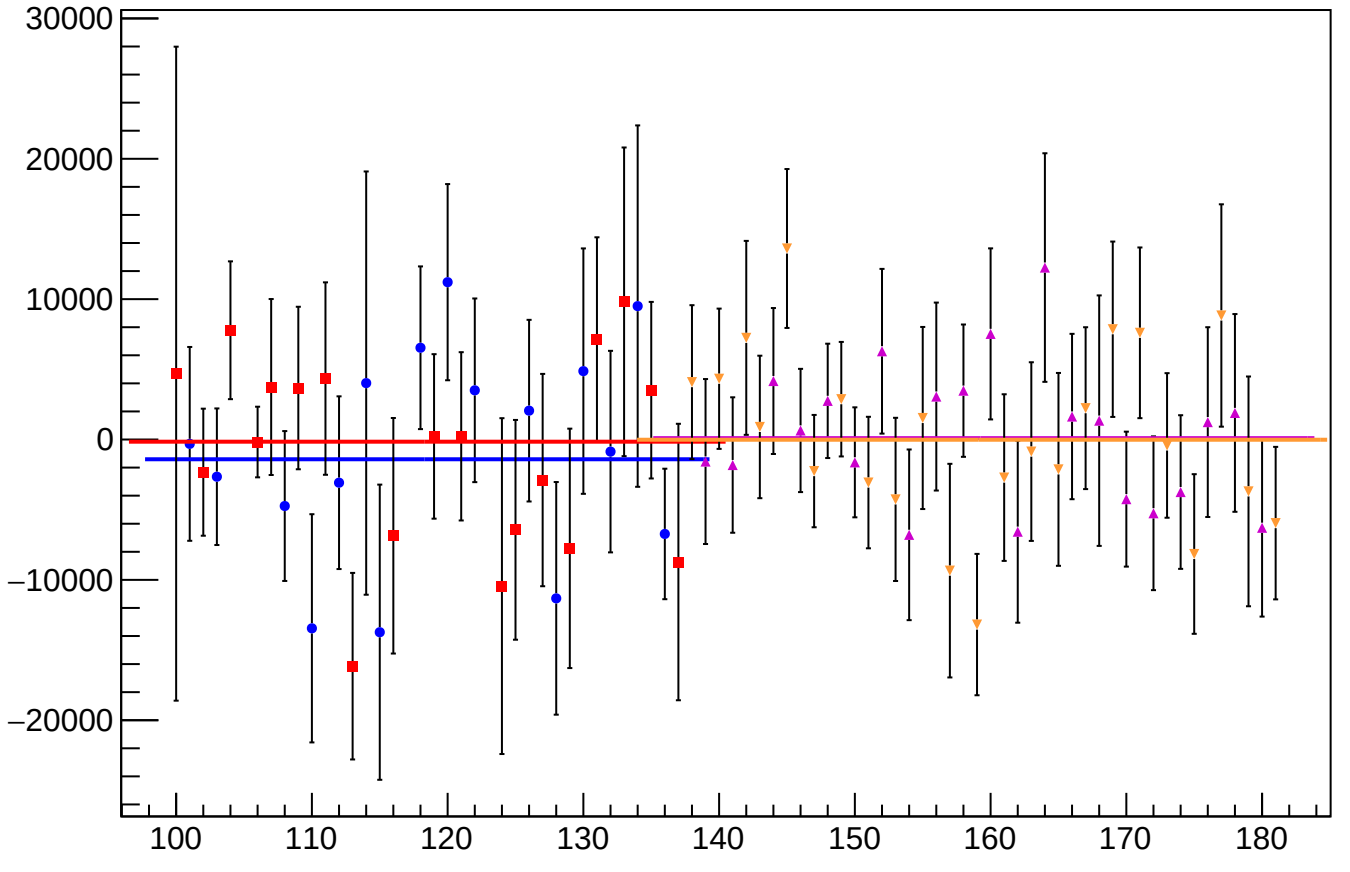
Left: 1883.531+/-0.223 $\chi^2$/NDF: 50431.5/43

Right: 1963.826+/-0.371 $\chi^2$/NDF: 912018.7/34

In: 1904.341+/-0.274 $\chi^2$/NDF:706971.5/36

Out: 1905.384+/-0.267 $\chi^2$/NDF:289823.4/41

All: 1904.875+/-0.191 $\chi^2$/NDF: 996802.2/78




Right In: -1407.382+/-1689.989 $\chi^2$/NDF: 14.2/15

Left Out: -16.142+/-1168.167 $\chi^2$/NDF:26.7/22

Right Out: -155.271+/-1363.642 $\chi^2$/NDF: 15.8/18

Left In: 97.630+/-1200.603 $\chi^2$/NDF:12.8/20

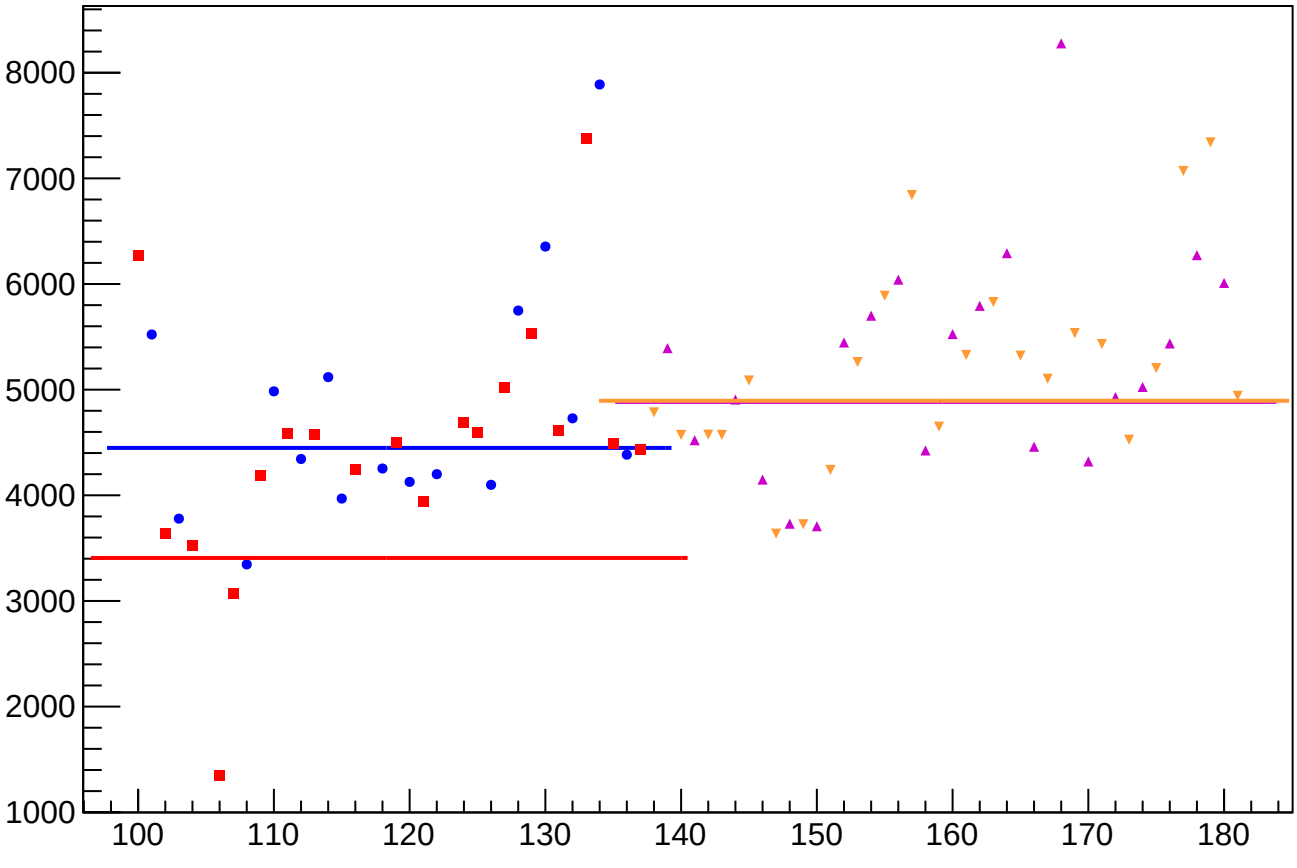
Left: 39.187+/-837.251 $\chi^2$/NDF: 39.6/43

Right: -649.023+/-1061.247 $\chi^2$/NDF: 30.4/34

In: -407.173+/-978.757 $\chi^2$/NDF:27.6/36

Out: -75.028+/-887.154 $\chi^2$/NDF:42.6/41

All: -224.834+/-657.317 $\chi^2$/NDF: 70.2/78




Right In: 4448.711+/-1.195 $\chi^2$/NDF: 494613.5/15

Left Out: 4894.848+/-0.826 $\chi^2$/NDF:1061943.5/22

Right Out: 3407.128+/-0.964 $\chi^2$/NDF: 2326060.4/18

Left In: 4884.006+/-0.849 $\chi^2$/NDF:1160659.5/20

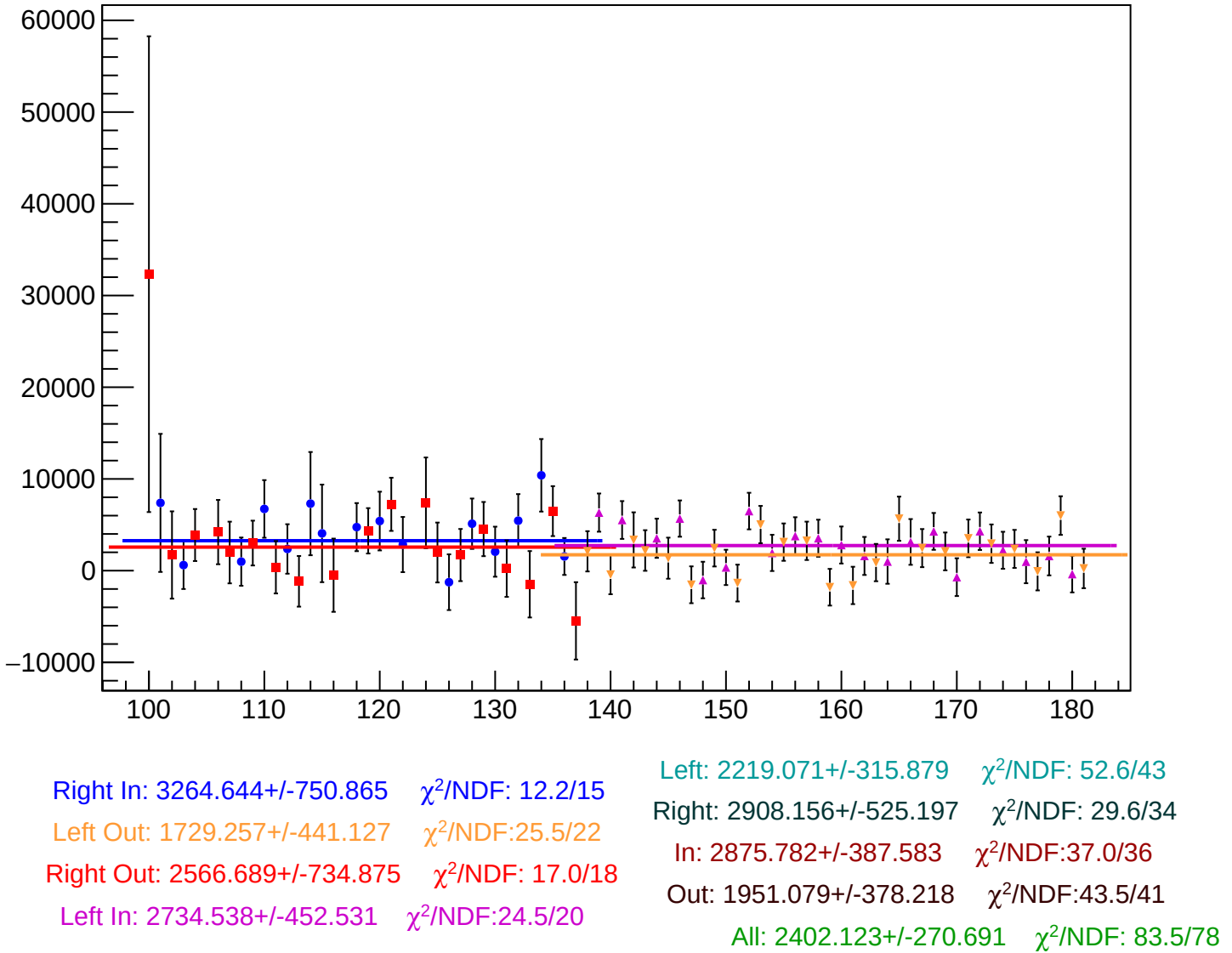
Left: 4889.576+/-0.592 $\chi^2$/NDF: 2222686.7/43

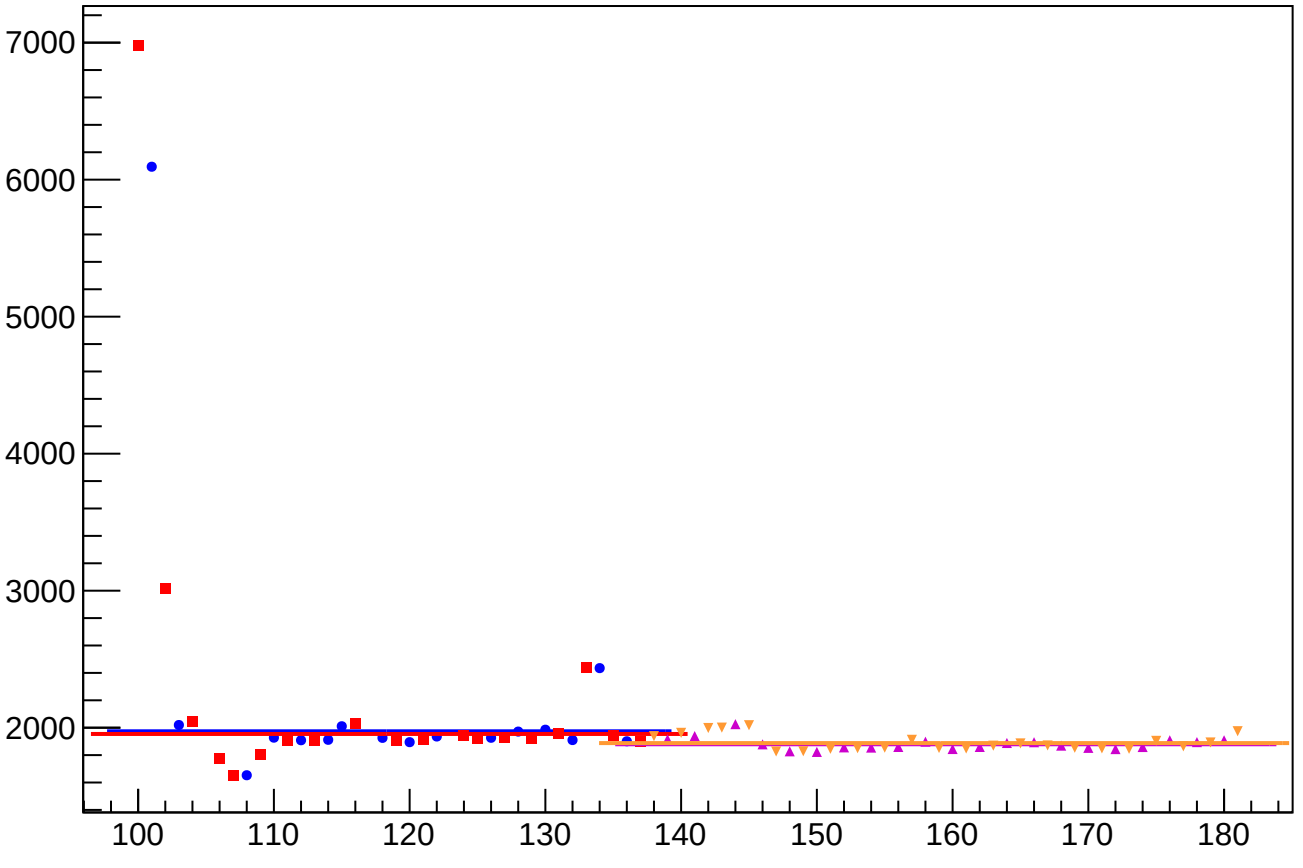
Right: 3817.861+/-0.750 $\chi^2$/NDF: 3280806.0/34

In: 4738.002+/-0.692 $\chi^2$/NDF:1743455.2/36

Out: 4265.171+/-0.627 $\chi^2$/NDF:4760969.1/41

All: 4478.429+/-0.465 $\chi^2$/NDF: 6760662.9/78


eigen_dit_asym_atr_avg_mean vs Slug, Sign Corrected
60000
50000
40000
30000
20000
10000
0
−10000
100
110
120
130
140
150
160
170
180
Right In: 3264.644+/-750.865 χ²/NDF: 12.2/15
Left Out: 1729.257+/-441.127 χ²/NDF:25.5/22
Right Out: 2566.689+/-734.875 χ²/NDF: 17.0/18
Left In: 2734.538+/-452.531 χ²/NDF:24.5/20
Left: 2219.071+/-315.879 χ²/NDF: 52.6/43
Right: 2908.156+/-525.197 χ²/NDF: 29.6/34
In: 2875.782+/-387.583 χ²/NDF:37.0/36
Out: 1951.079+/-378.218 χ²/NDF:43.5/41
All: 2402.123+/-270.691 χ²/NDF: 83.5/78




Right In: 1973.748+/-0.531 $\chi^2$/NDF: 665124.2/15

Left Out: 1887.713+/-0.312 $\chi^2$/NDF:31511.4/22

Right Out: 1954.339+/-0.519 $\chi^2$/NDF: 246210.8/18

Left In: 1879.131+/-0.320 $\chi^2$/NDF:18551.3/20

Left: 1883.532+/-0.223 $\chi^2$/NDF: 50431.5/43

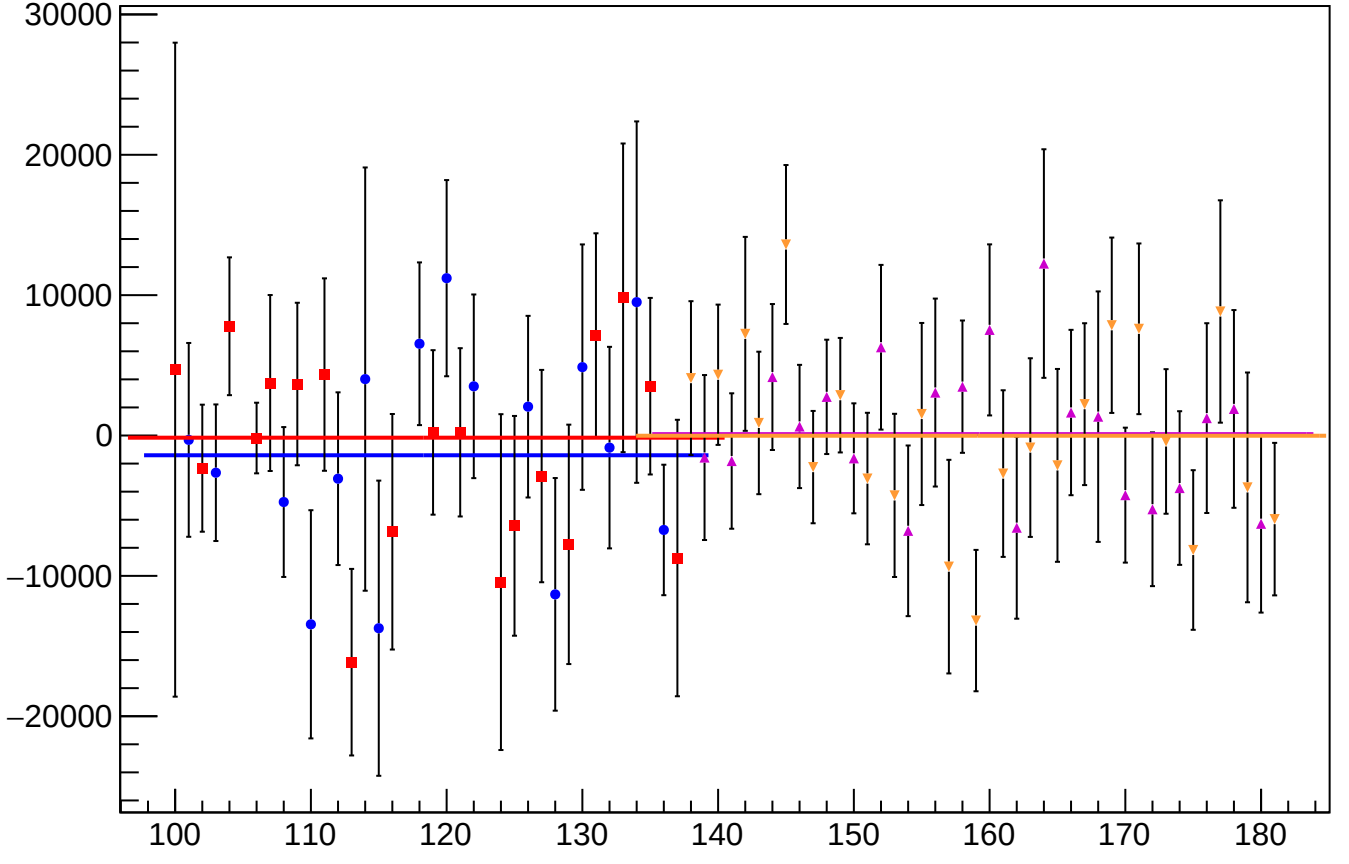
Right: 1963.826+/-0.371 $\chi^2$/NDF: 912018.2/34

In: 1904.341+/-0.274 $\chi^2$/NDF:706970.9/36

Out: 1905.384+/-0.267 $\chi^2$/NDF:289822.5/41

All: 1904.876+/-0.191 $\chi^2$/NDF: 996800.9/78

asym_atr_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1407.363+/-1689.986 $\chi^2$/NDF: 14.2/15

Left Out: -16.144+/-1168.169 $\chi^2$/NDF:26.7/22

Right Out: -155.272+/-1363.639 $\chi^2$/NDF: 15.8/18

Left In: 97.629+/-1200.605 $\chi^2$/NDF:12.8/20

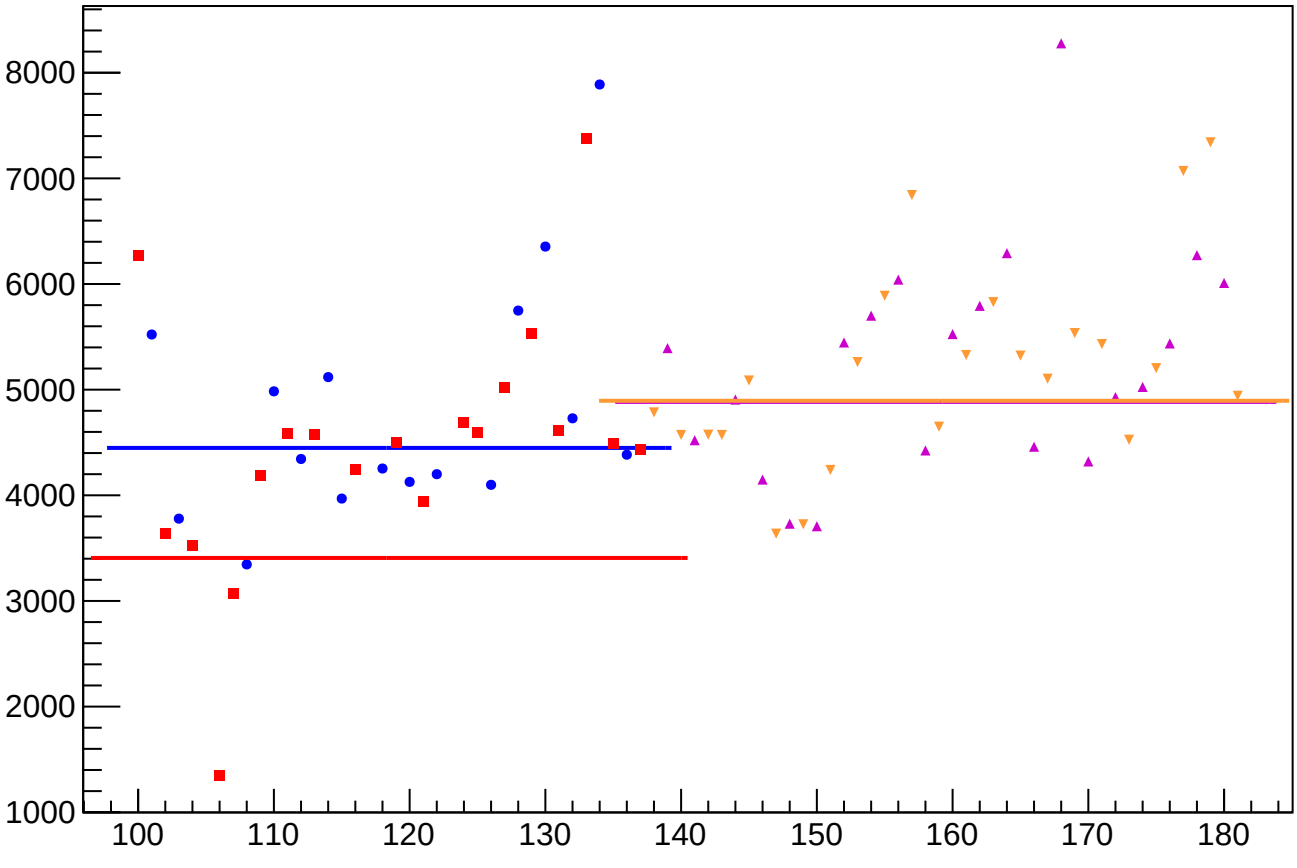
Left: 39.185+/-837.253 $\chi^2$/NDF: 39.6/43

Right: -649.016+/-1061.245 $\chi^2$/NDF: 30.4/34

In: -407.169+/-978.757 $\chi^2$/NDF:27.6/36

Out: -75.031+/-887.154 $\chi^2$/NDF:42.6/41

All: -224.833+/-657.318 $\chi^2$/NDF: 70.2/78




Right In: 4448.704+/-1.195 $\chi^2$/NDF: 494610.6/15

Left Out: 4894.856+/-0.826 $\chi^2$/NDF:1061944.9/22

Right Out: 3407.120+/-0.964 $\chi^2$/NDF: 2326064.2/18

Left In: 4884.014+/-0.849 $\chi^2$/NDF:1160661.7/20

Left: 4889.583+/-0.592 $\chi^2$/NDF: 2222690.4/43

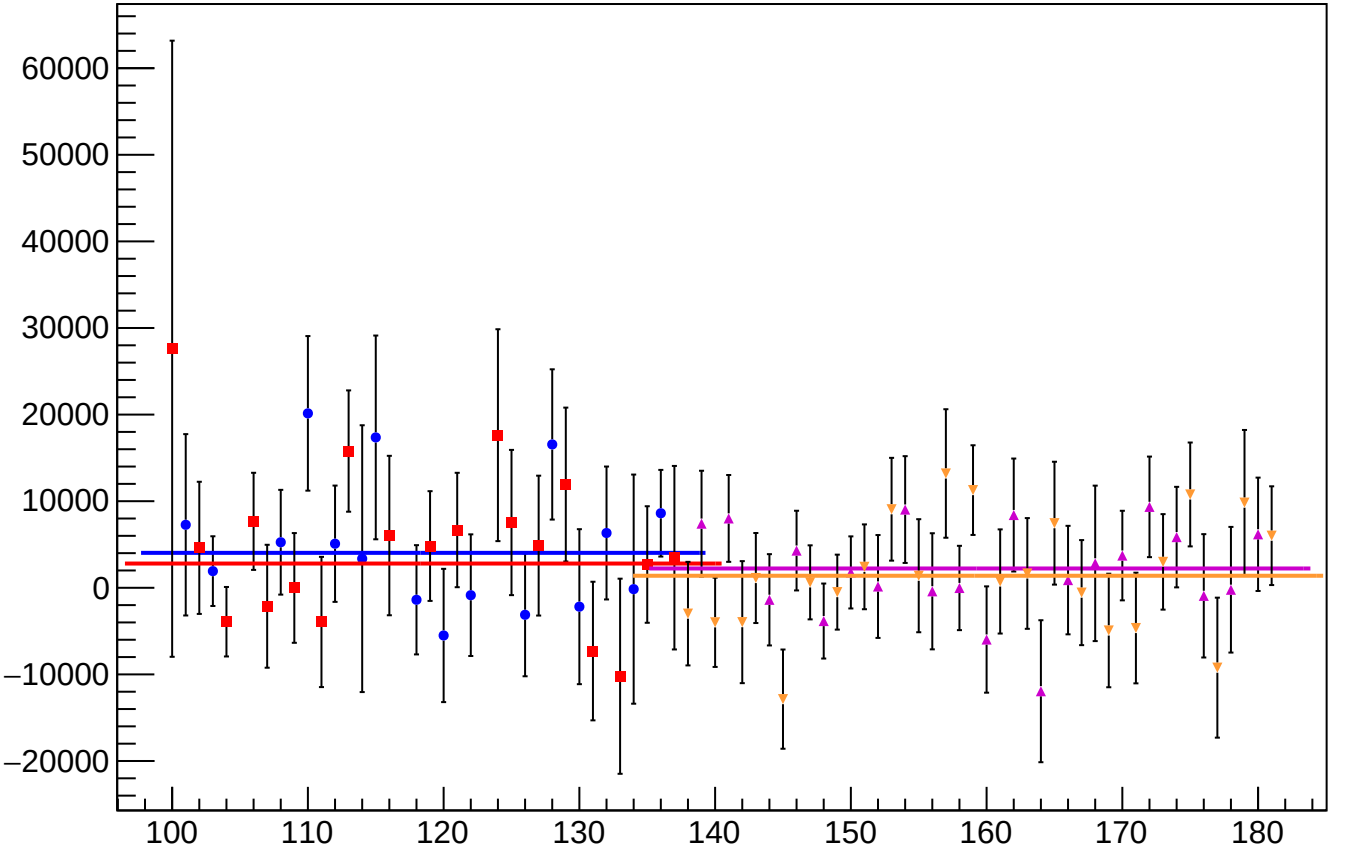
Right: 3817.853+/-0.750 $\chi^2$/NDF: 3280809.4/34

In: 4738.004+/-0.692 $\chi^2$/NDF:1743460.7/36

Out: 4265.169+/-0.627 $\chi^2$/NDF:4761005.4/41

All: 4478.429+/-0.465 $\chi^2$/NDF: 6760708.5/78

# asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 4034.572+/-1782.030 $\chi^2$/NDF: 12.3/15

Left Out: 1390.757+/-1214.239 $\chi^2$/NDF:25.1/22

Right Out: 2800.547+/-1671.877 $\chi^2$/NDF: 15.4/18

Left In: 2230.126+/-1248.380 $\chi^2$/NDF:14.8/20

Left: 1798.807+/-870.416 $\chi^2$/NDF: 40.1/43

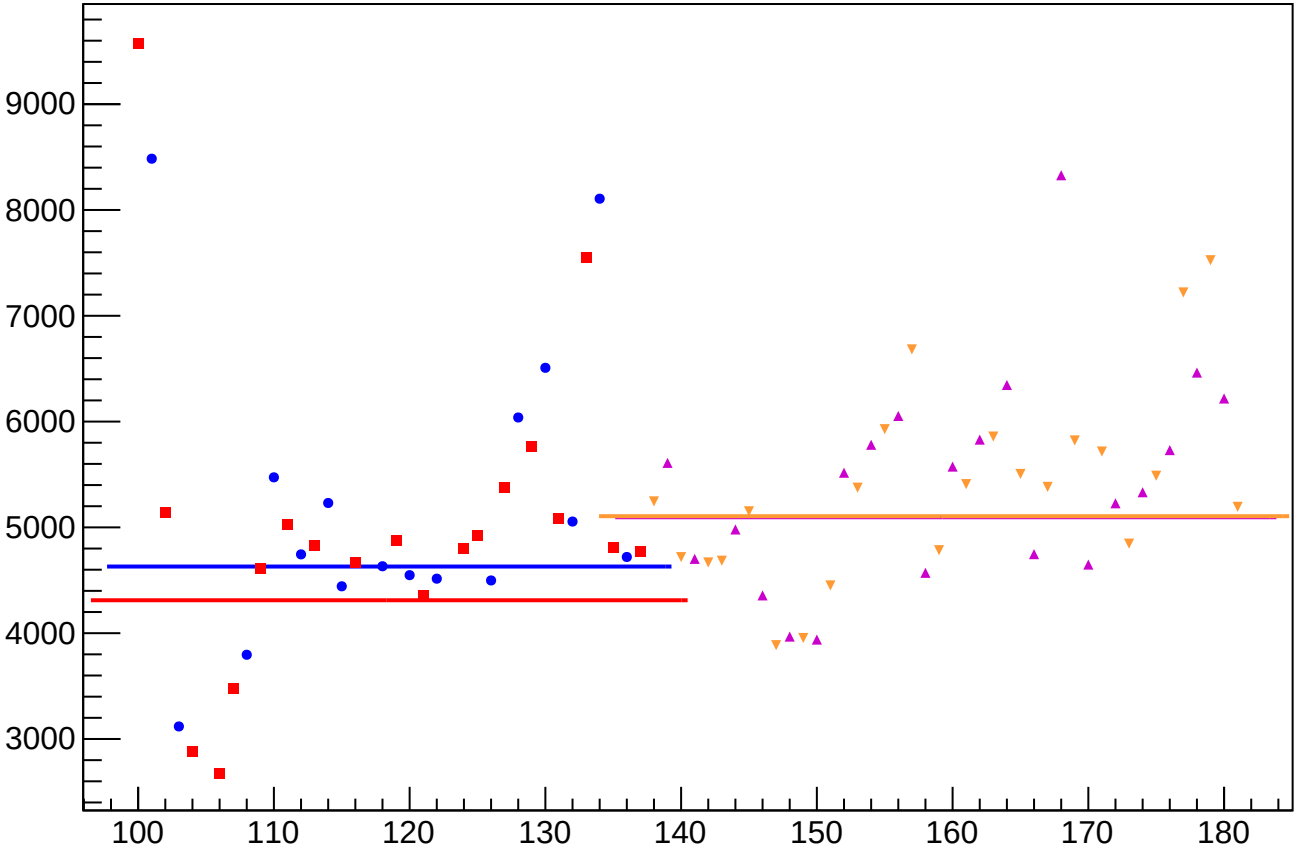
Right: 3378.243+/-1219.278 $\chi^2$/NDF: 28.0/34

In: 2824.147+/-1022.454 $\chi^2$/NDF:27.8/36

Out: 1877.591+/-982.466 $\chi^2$/NDF:41.0/41

All: 2331.997+/-708.424 $\chi^2$/NDF: 69.3/78

# asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 4629.967+/-1.260 $\chi^2$/NDF: 900246.3/15

Left Out: 5105.716+/-0.859 $\chi^2$/NDF:908720.6/22

Right Out: 4311.218+/-1.172 $\chi^2$/NDF: 904737.2/18

Left In: 5095.792+/-0.883 $\chi^2$/NDF:982566.7/20

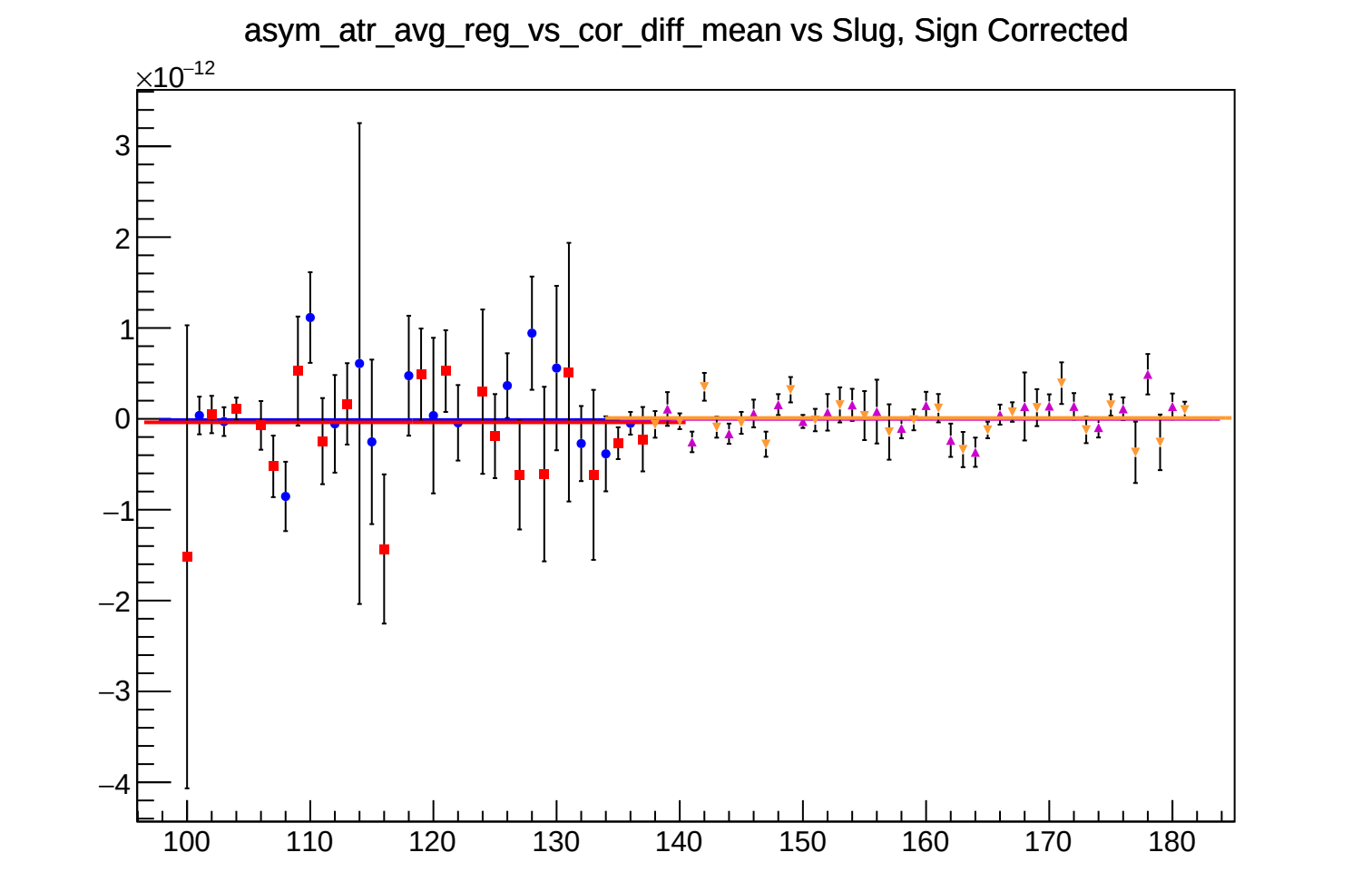
Left: 5100.891+/-0.615 $\chi^2$/NDF: 1891352.2/43

Right: 4459.059+/-0.858 $\chi^2$/NDF: 1839292.8/34

In: 4942.443+/-0.723 $\chi^2$/NDF:1974485.5/36

Out: 4828.227+/-0.693 $\chi^2$/NDF:2112518.9/41

All: 4882.886+/-0.500 $\chi^2$/NDF: 4100018.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:31.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:29.1/20

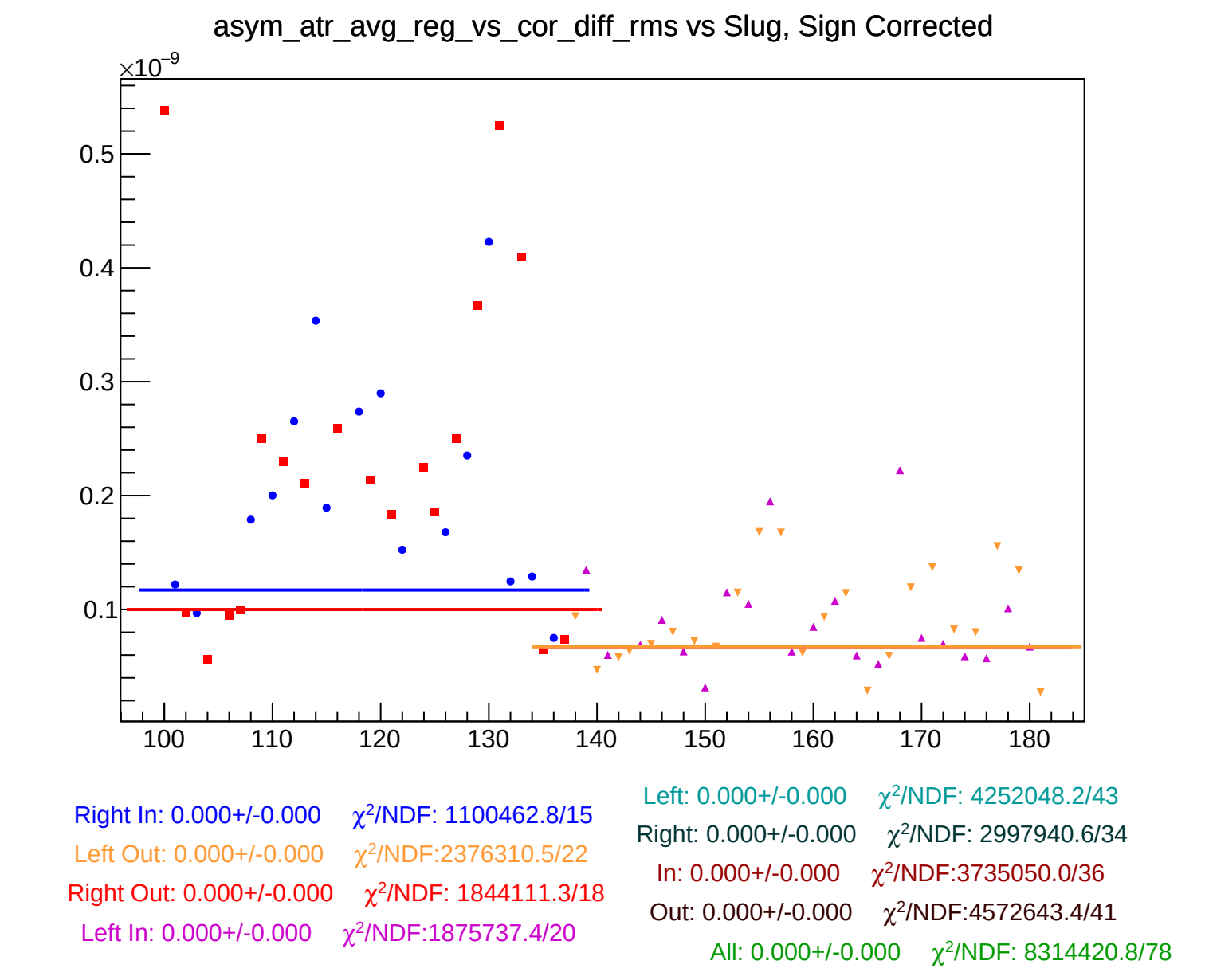
Left: 0.000+/-0.000 $\chi^2$/NDF: 60.4/43

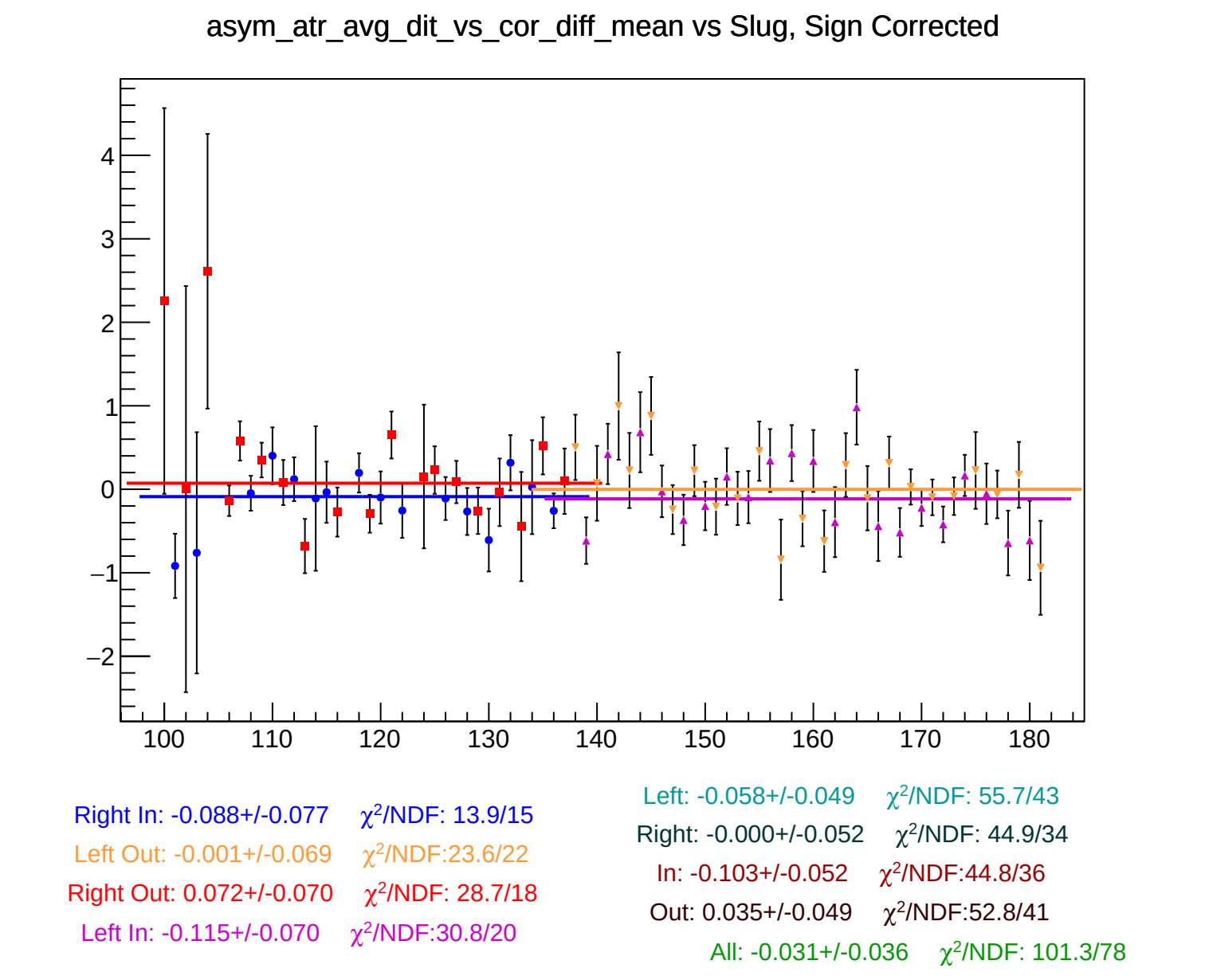
Right: -0.000+/-0.000 $\chi^2$/NDF: 30.9/34

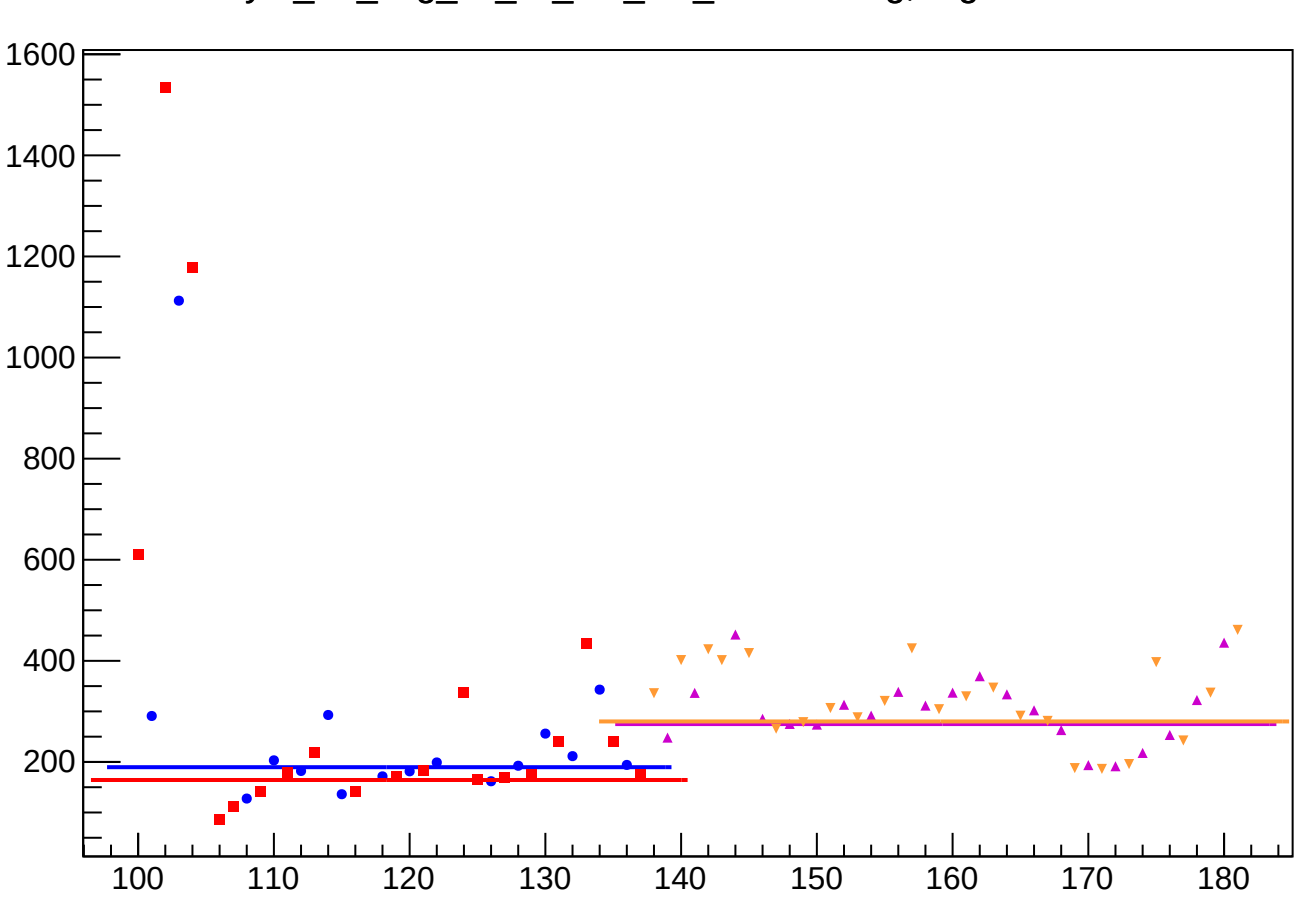
In: -0.000+/-0.000 $\chi^2$/NDF:45.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:46.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 91.6/78


asym_atr_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1100462.8/15
Left Out: 0.000+/-0.000 χ²/NDF:2376310.5/22
Right Out: 0.000+/-0.000 χ²/NDF: 1844111.3/18
Left In: 0.000+/-0.000 χ²/NDF:1875737.4/20
Left: 0.000+/-0.000 χ²/NDF: 4252048.2/43
Right: 0.000+/-0.000 χ²/NDF: 2997940.6/34
In: 0.000+/-0.000 χ²/NDF:3735050.0/36
Out: 0.000+/-0.000 χ²/NDF:4572643.4/41
All: 0.000+/-0.000 χ²/NDF: 8314420.8/78


asym_atr_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected
4
3
2
1
0
−1
−2
100
110
120
130
140
150
160
170
180
Right In: -0.088+/-0.077 χ²/NDF: 13.9/15
Left Out: -0.001+/-0.069 χ²/NDF:23.6/22
Right Out: 0.072+/-0.070 χ²/NDF: 28.7/18
Left In: -0.115+/-0.070 χ²/NDF:30.8/20
Left: -0.058+/-0.049 χ²/NDF: 55.7/43
Right: -0.000+/-0.052 χ²/NDF: 44.9/34
In: -0.103+/-0.052 χ²/NDF:44.8/36
Out: 0.035+/-0.049 χ²/NDF:52.8/41
All: -0.031+/-0.036 χ²/NDF: 101.3/78




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465476.9/15

Left Out: 280.113+/-0.049 $\chi^2$/NDF:2394938.1/22

Right Out: 164.287+/-0.050 $\chi^2$/NDF: 2643490.2/18

Left In: 274.926+/-0.049 $\chi^2$/NDF:1619781.3/20

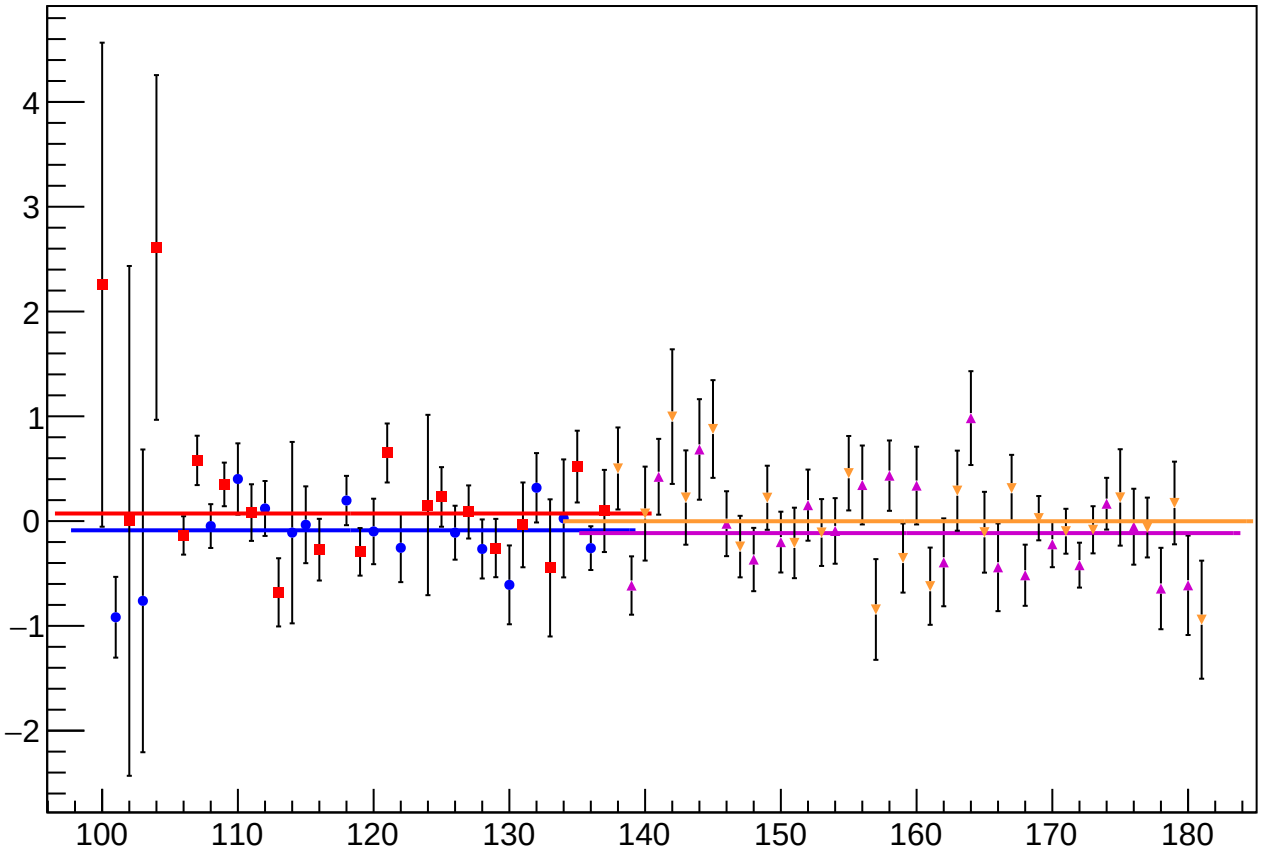
Left: 277.526+/-0.035 $\chi^2$/NDF: 4020277.0/43

Right: 175.794+/-0.037 $\chi^2$/NDF: 4227942.3/34

In: 236.402+/-0.036 $\chi^2$/NDF:4439213.7/36

Out: 222.644+/-0.035 $\chi^2$/NDF:7796221.4/41

All: 229.213+/-0.025 $\chi^2$/NDF: 12309756.5/78




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: -0.001+/-0.069 $\chi^2$/NDF:23.6/22

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.115+/-0.070 $\chi^2$/NDF:30.8/20

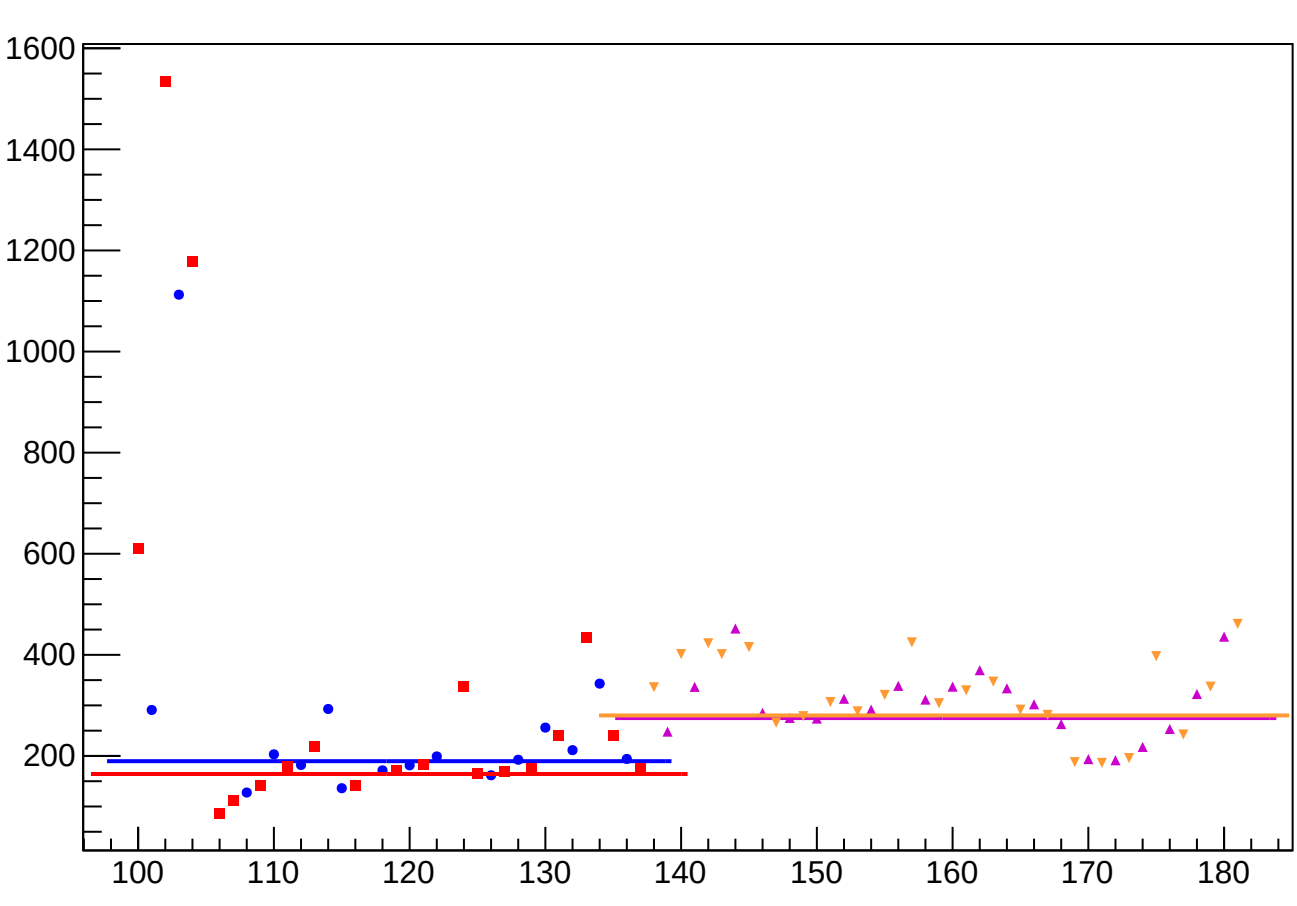
Left: -0.058+/-0.049 $\chi^2$/NDF: 55.7/43

Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.103+/-0.052 $\chi^2$/NDF:44.8/36

Out: 0.035+/-0.049 $\chi^2$/NDF:52.8/41

All: -0.031+/-0.036 $\chi^2$/NDF: 101.3/78




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465476.9/15

Left Out: 280.113+/-0.049 $\chi^2$/NDF:2394938.1/22

Right Out: 164.287+/-0.050 $\chi^2$/NDF: 2643490.2/18

Left In: 274.926+/-0.049 $\chi^2$/NDF:1619781.3/20

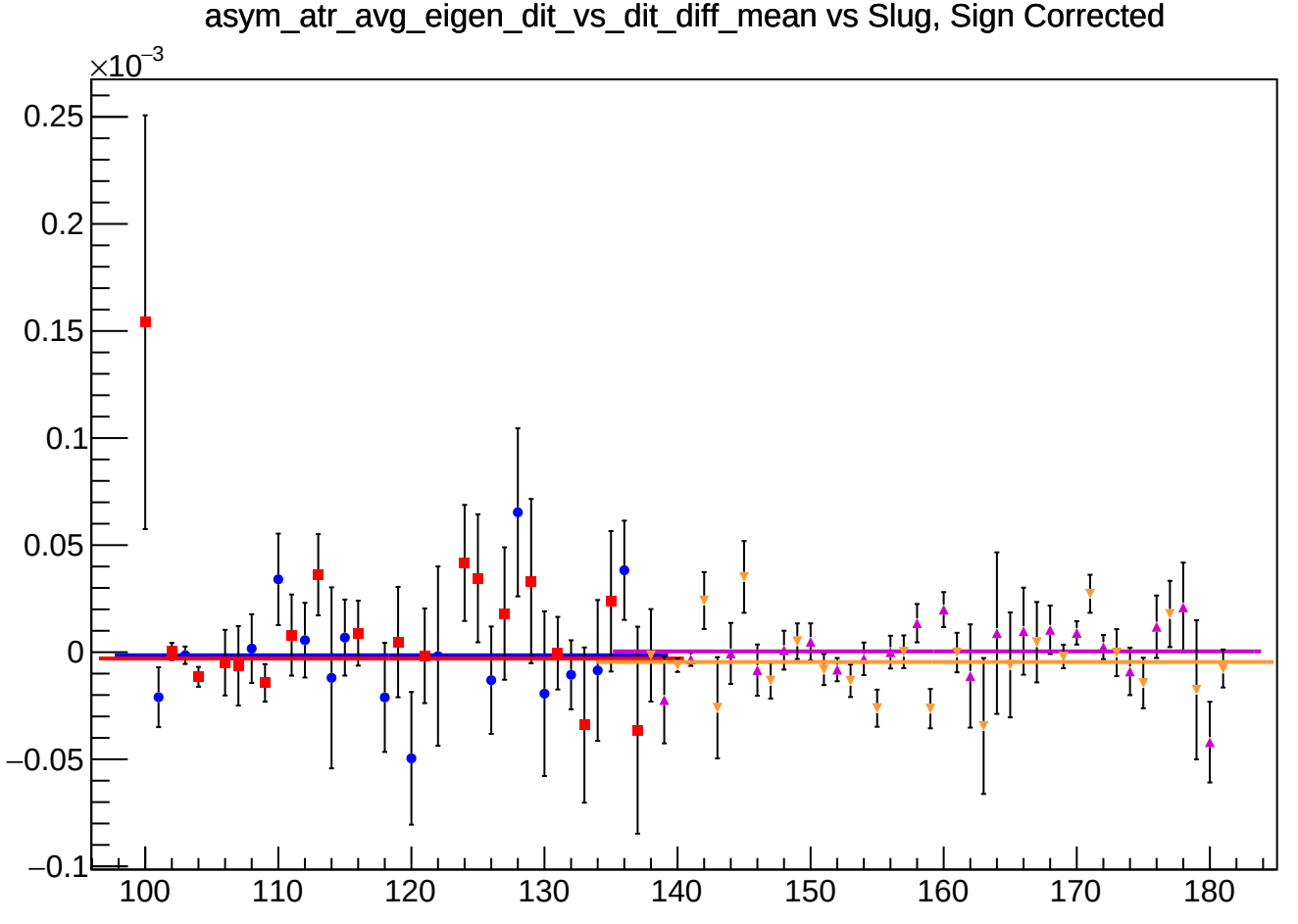
Left: 277.526+/-0.035 $\chi^2$/NDF: 4020277.0/43

Right: 175.794+/-0.037 $\chi^2$/NDF: 4227942.3/34

In: 236.402+/-0.036 $\chi^2$/NDF:4439213.7/36

Out: 222.644+/-0.035 $\chi^2$/NDF:7796221.4/41

All: 229.213+/-0.025 $\chi^2$/NDF: 12309756.5/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:45.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.4/20

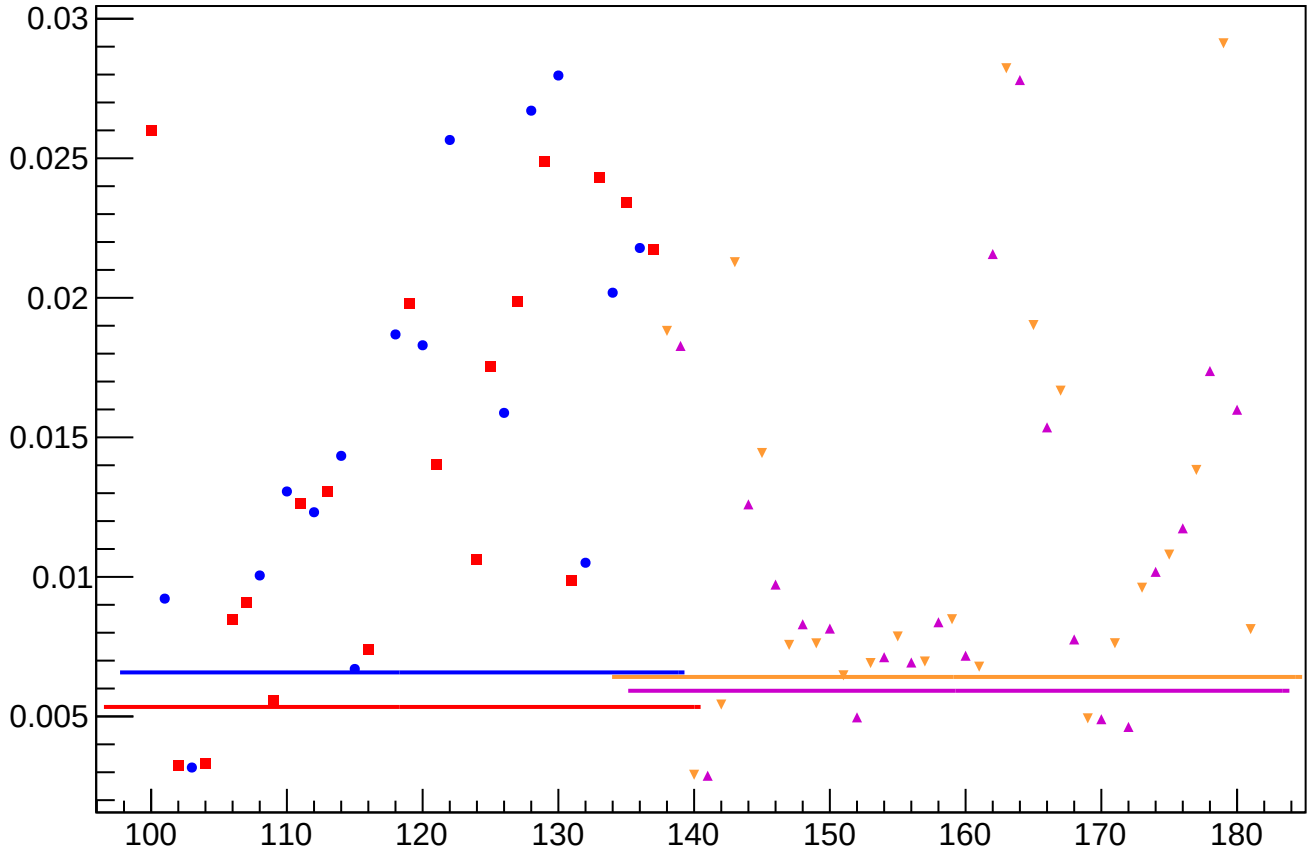
Left: -0.000+/-0.000 $\chi^2$/NDF: 74.6/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:40.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:66.8/41

All: -0.000+/-0.000 $\chi^2$/NDF: 110.9/78




Right In: 0.007+/-0.000 $\chi^2$/NDF: 5928012.0/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:8838734.9/22

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 5685915.4/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:7945791.6/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 16864734.1/43

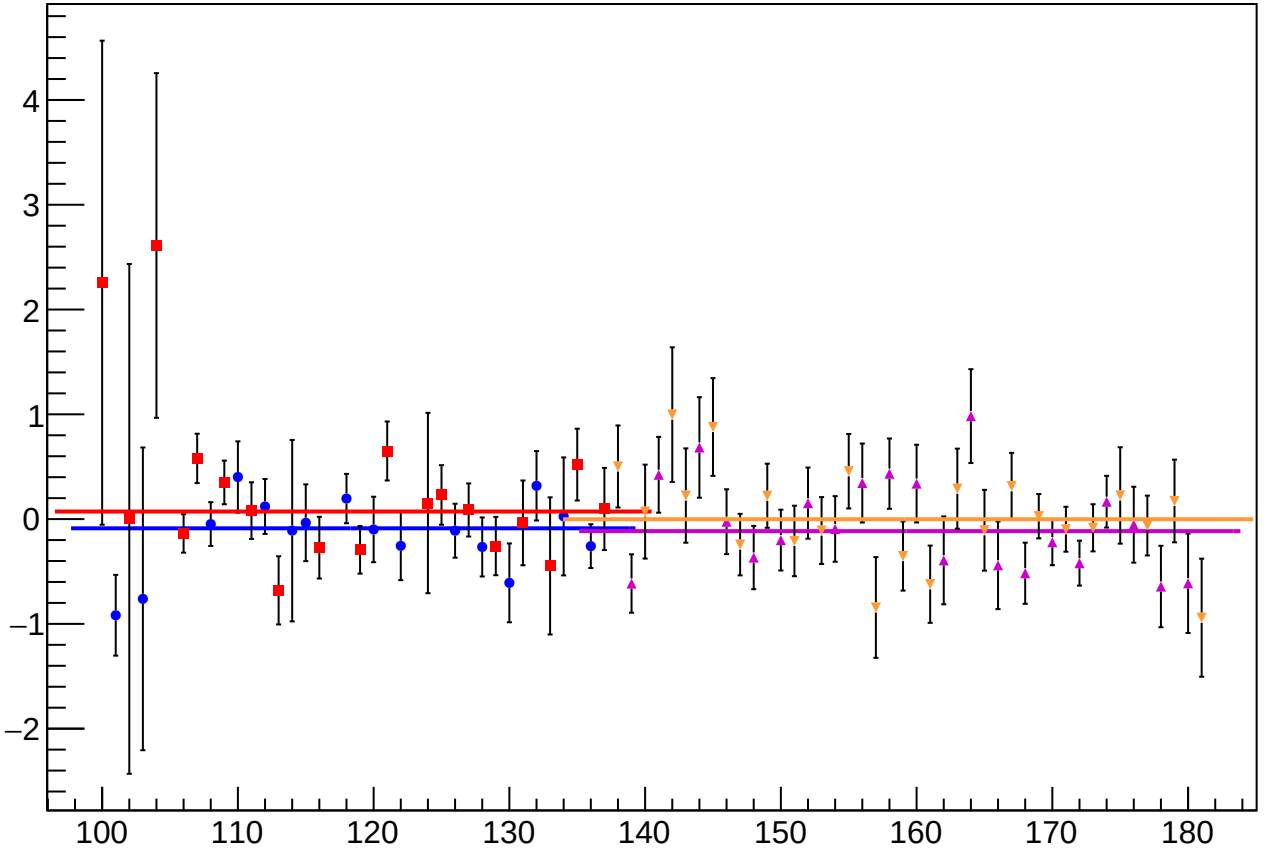
Right: 0.006+/-0.000 $\chi^2$/NDF: 11788382.8/34

In: 0.006+/-0.000 $\chi^2$/NDF:13935874.5/36

Out: 0.006+/-0.000 $\chi^2$/NDF:14762057.1/41

All: 0.006+/-0.000 $\chi^2$/NDF: 28697952.5/78

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: -0.001+/-0.069 $\chi^2$/NDF:23.6/22

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.115+/-0.070 $\chi^2$/NDF:30.8/20

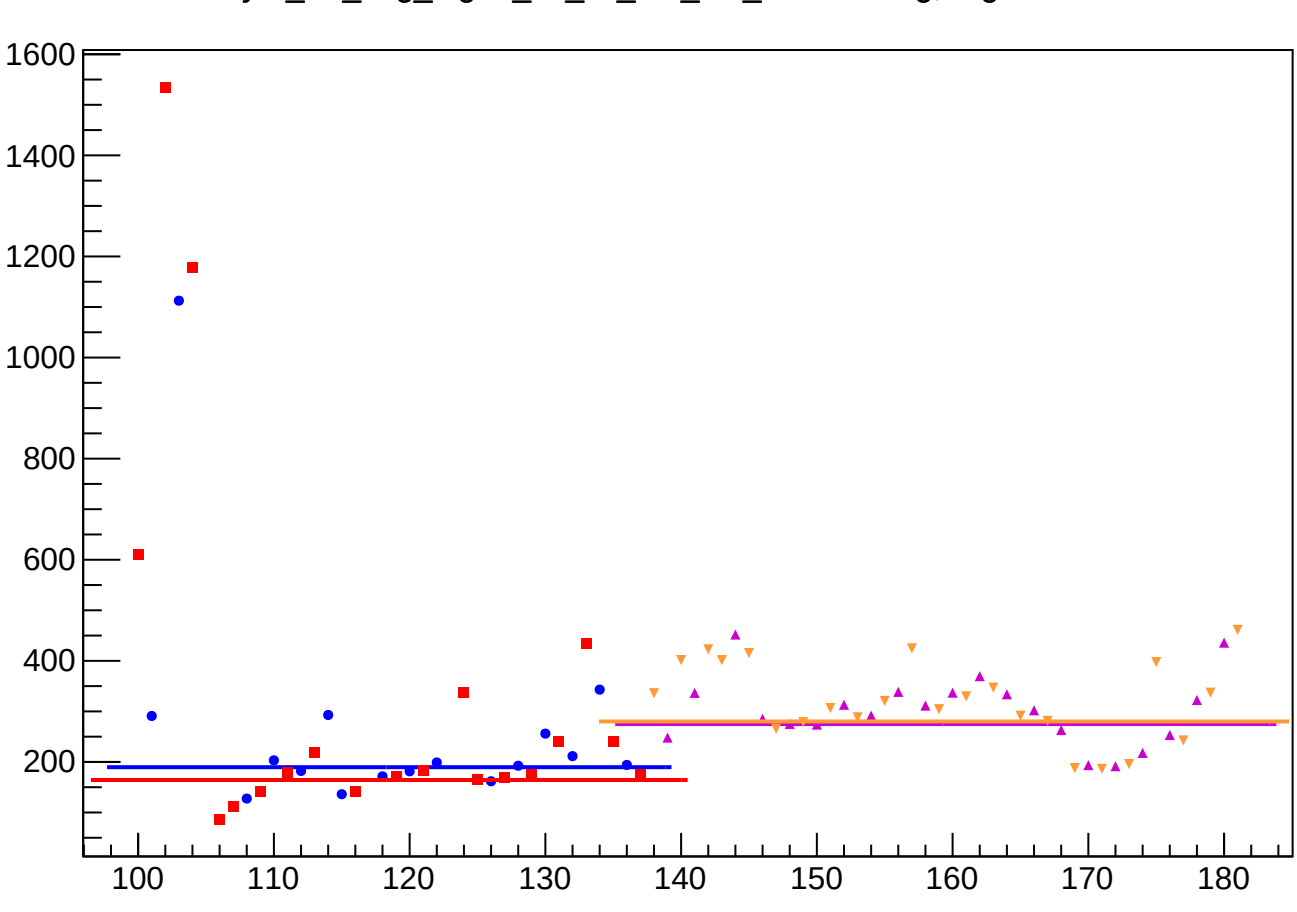
Left: -0.058+/-0.049 $\chi^2$/NDF: 55.7/43

Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.103+/-0.052 $\chi^2$/NDF:44.8/36

Out: 0.035+/-0.049 $\chi^2$/NDF:52.8/41

All: -0.031+/-0.036 $\chi^2$/NDF: 101.3/78




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465464.1/15

Left Out: 280.115+/-0.049 $\chi^2$/NDF:2395010.3/22

Right Out: 164.286+/-0.050 $\chi^2$/NDF: 2643465.6/18

Left In: 274.928+/-0.049 $\chi^2$/NDF:1619830.2/20

Left: 277.529+/-0.035 $\chi^2$/NDF: 4020397.9/43

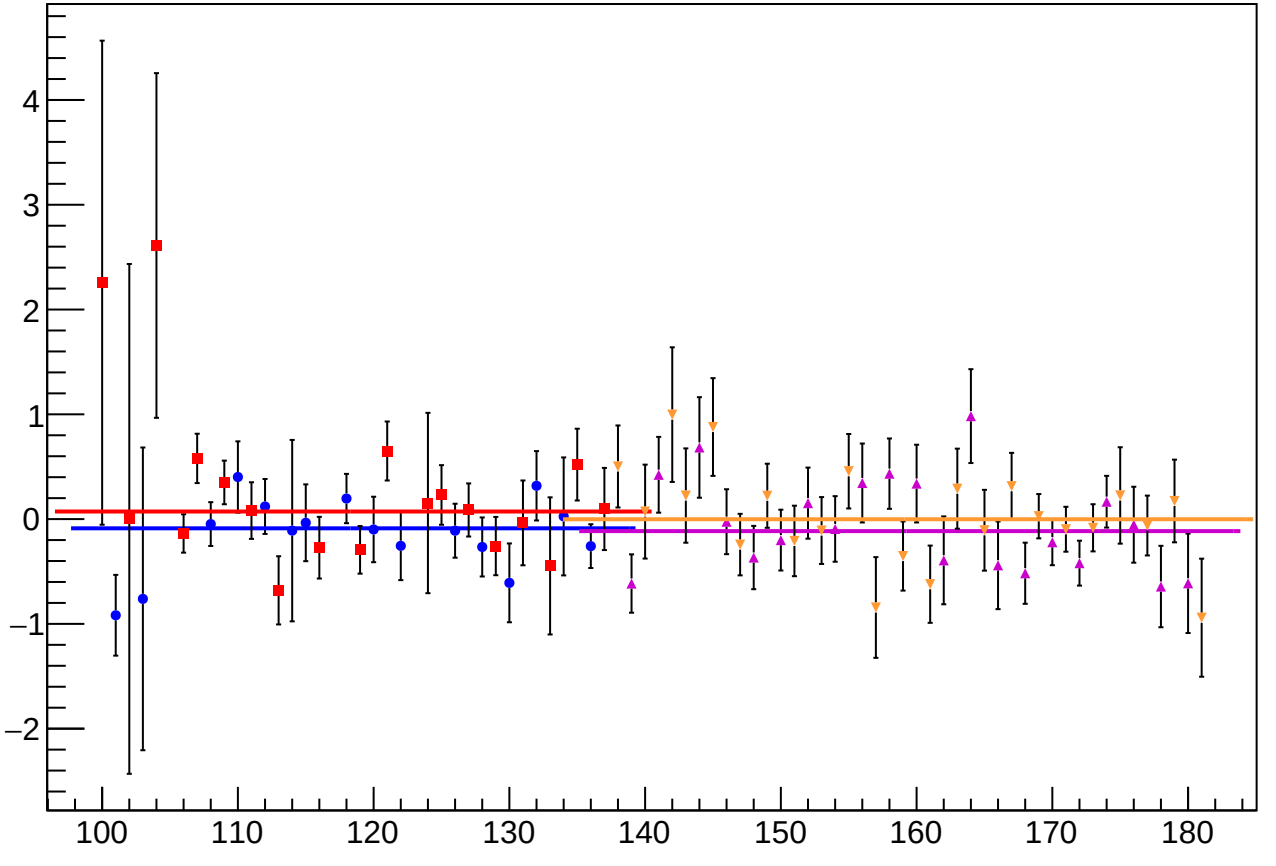
Right: 175.793+/-0.037 $\chi^2$/NDF: 4227906.3/34

In: 236.403+/-0.036 $\chi^2$/NDF:4439347.6/36

Out: 222.644+/-0.035 $\chi^2$/NDF:7796411.8/41

All: 229.213+/-0.025 $\chi^2$/NDF: 12310085.6/78

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: -0.001+/-0.069 $\chi^2$/NDF:23.6/22

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.115+/-0.070 $\chi^2$/NDF:30.8/20

Left: -0.058+/-0.049 $\chi^2$/NDF: 55.7/43

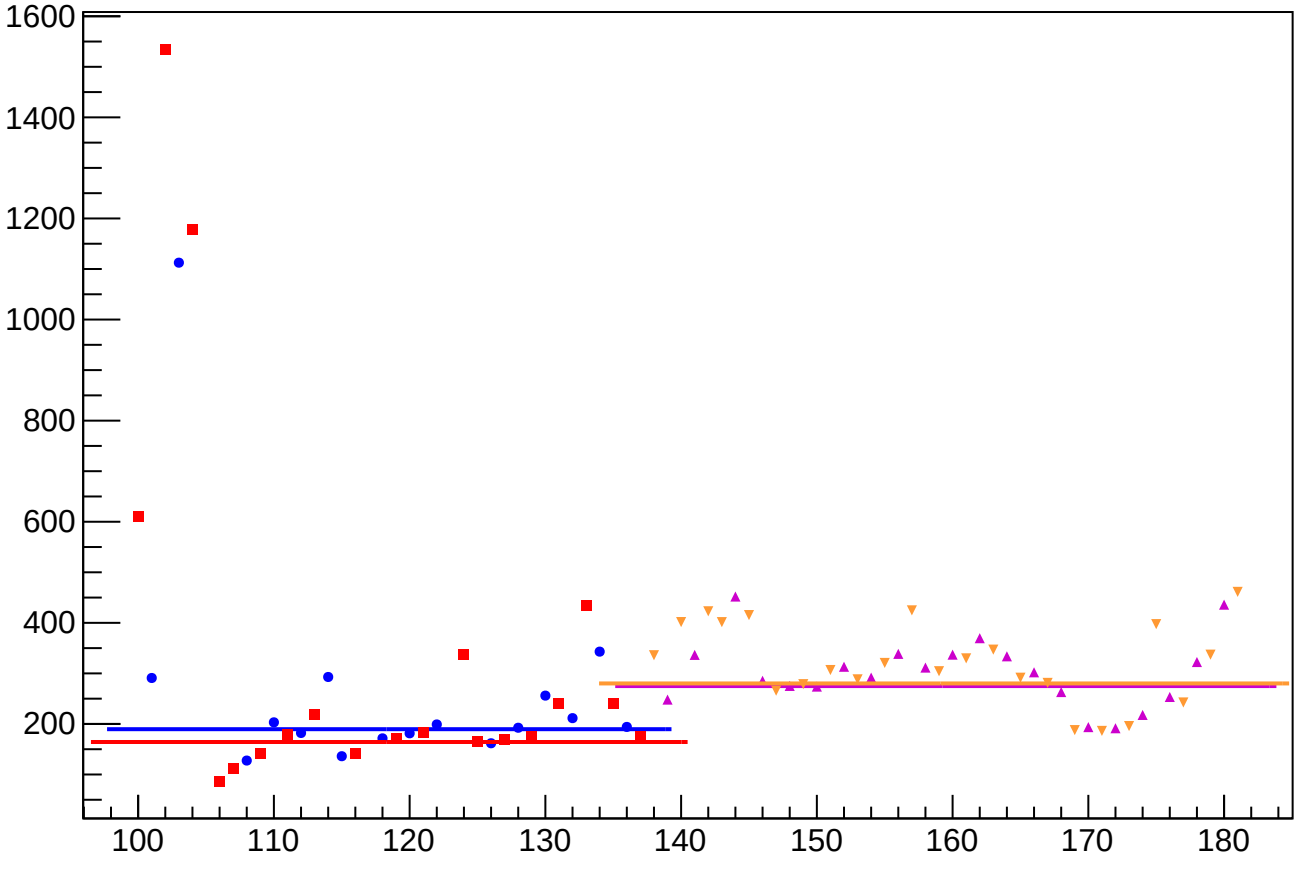
Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.103+/-0.052 $\chi^2$/NDF:44.8/36

Out: 0.035+/-0.049 $\chi^2$/NDF:52.8/41

All: -0.031+/-0.036 $\chi^2$/NDF: 101.3/78

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465464.1/15

Left Out: 280.115+/-0.049 $\chi^2$/NDF:2395010.3/22

Right Out: 164.286+/-0.050 $\chi^2$/NDF: 2643465.6/18

Left In: 274.928+/-0.049 $\chi^2$/NDF:1619830.2/20

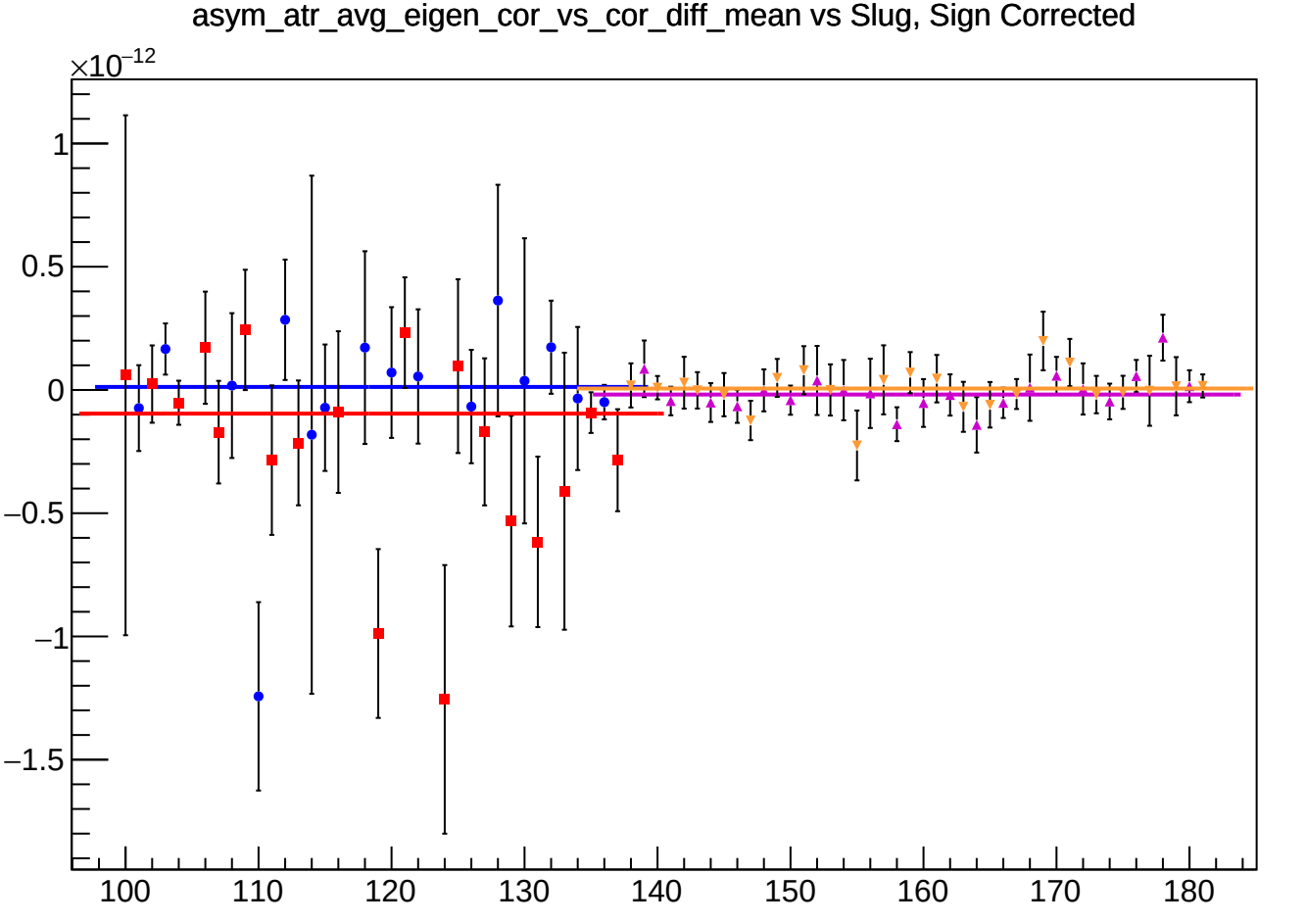
Left: 277.529+/-0.035 $\chi^2$/NDF: 4020397.9/43

Right: 175.793+/-0.037 $\chi^2$/NDF: 4227906.3/34

In: 236.403+/-0.036 $\chi^2$/NDF:4439347.6/36

Out: 222.644+/-0.035 $\chi^2$/NDF:7796411.8/41

All: 229.213+/-0.025 $\chi^2$/NDF: 12310085.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:12.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.7/20

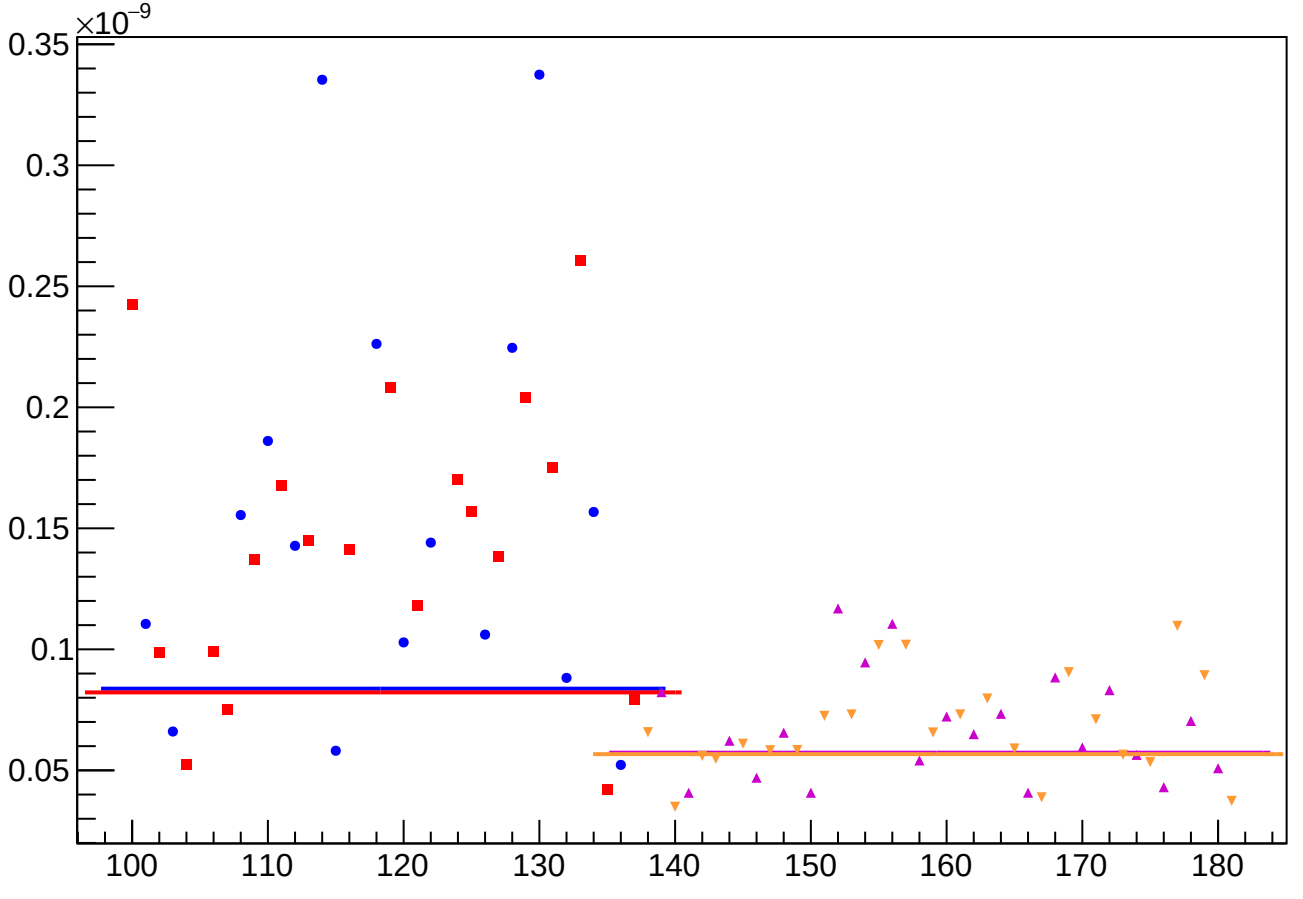
Left: -0.000+/-0.000 $\chi^2$/NDF: 29.2/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:33.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:40.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 73.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2109060.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2300737.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2271900.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1964006.3/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4265989.8/43

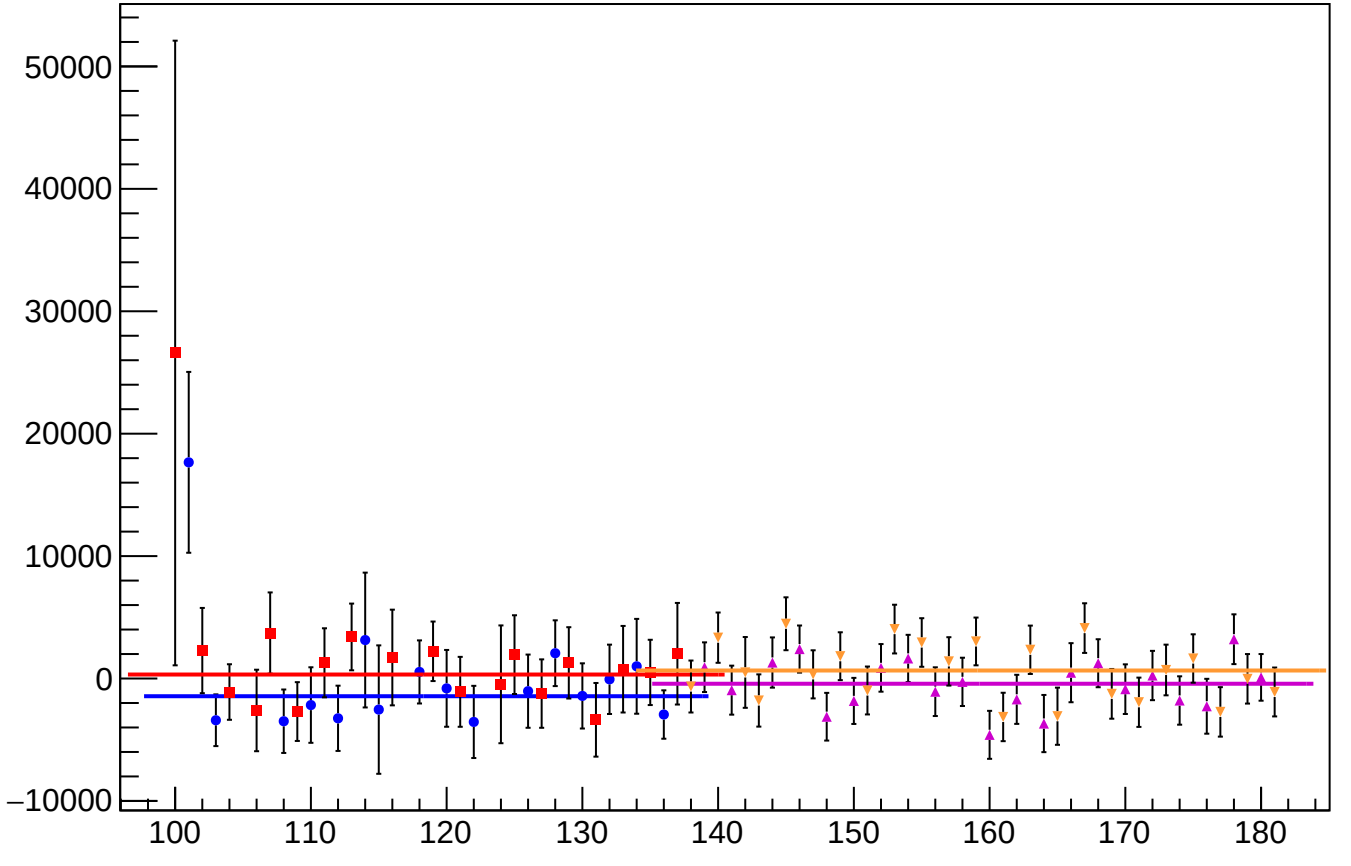
Right: 0.000+/-0.000 $\chi^2$/NDF: 4382137.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:4660122.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5141483.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9804232.1/78

# reg_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1446.547+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 654.614+/-427.291 $\chi^2$/NDF:29.8/22

Right Out: 325.908+/-702.648 $\chi^2$/NDF: 9.9/18

Left In: -427.289+/-439.580 $\chi^2$/NDF:19.9/20

Left: 128.997+/-306.393 $\chi^2$/NDF: 52.8/43

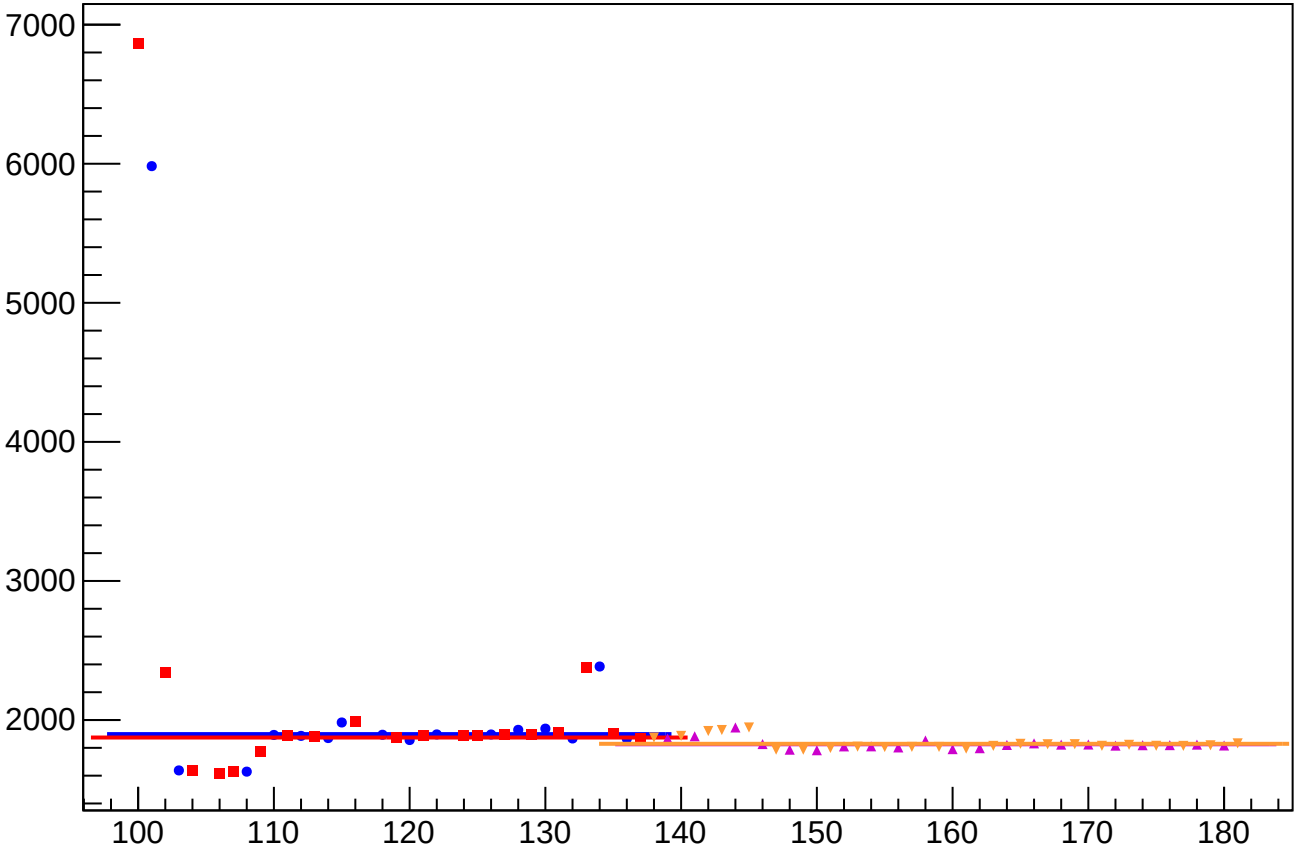
Right: -534.850+/-503.936 $\chi^2$/NDF: 26.5/34

In: -702.299+/-375.625 $\chi^2$/NDF:34.9/36

Out: 565.874+/-365.086 $\chi^2$/NDF:39.9/41

All: -50.171+/-261.801 $\chi^2$/NDF: 80.6/78

# reg_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.2/15

Left Out: 1829.045+/-0.302 $\chi^2$/NDF:19171.1/22

Right Out: 1874.251+/-0.495 $\chi^2$/NDF: 207657.7/18

Left In: 1825.653+/-0.311 $\chi^2$/NDF:13318.8/20

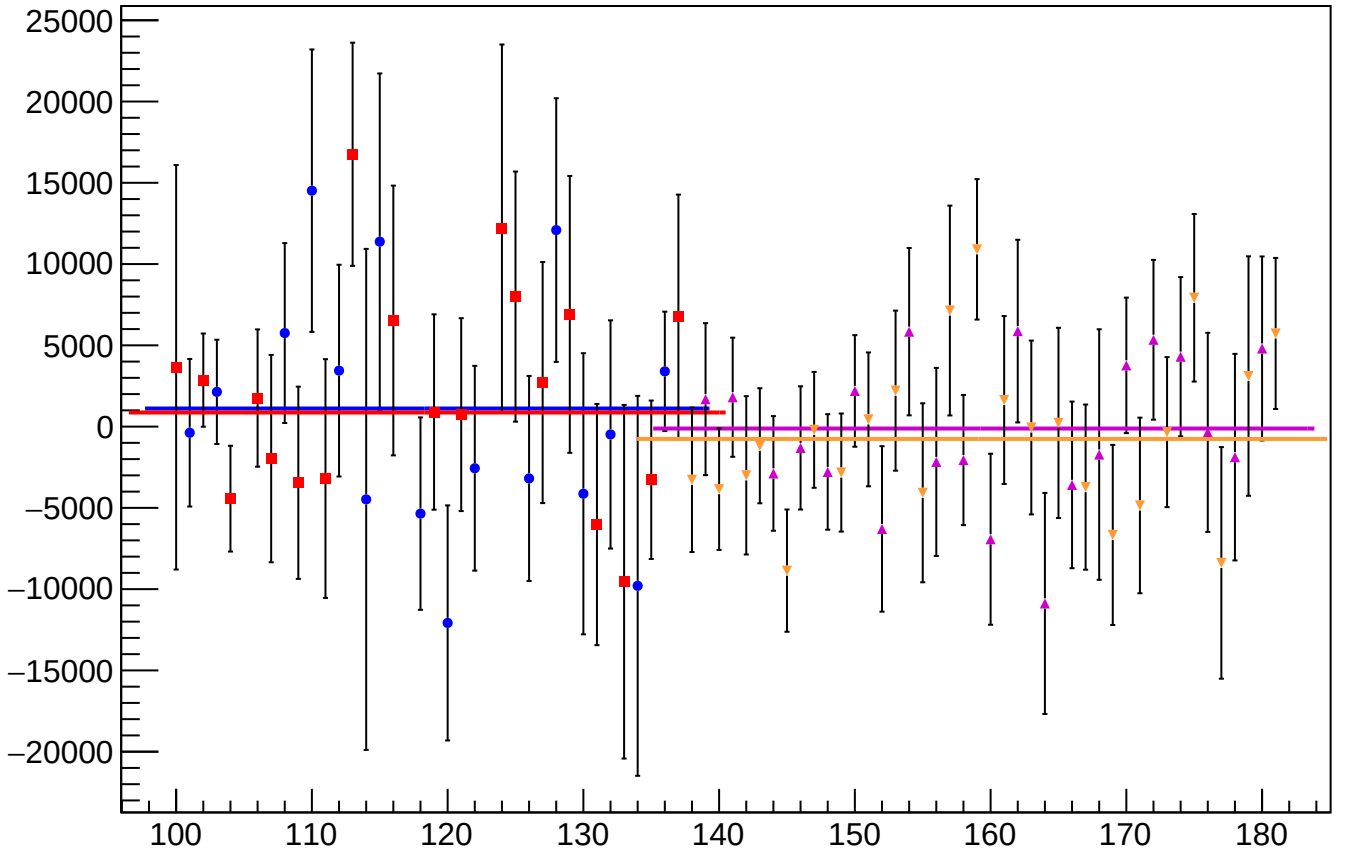
Left: 1827.397+/-0.217 $\chi^2$/NDF: 32551.2/43

Right: 1886.144+/-0.356 $\chi^2$/NDF: 906364.0/34

In: 1845.396+/-0.266 $\chi^2$/NDF:725785.7/36

Out: 1841.310+/-0.258 $\chi^2$/NDF:232902.2/41

All: 1843.293+/-0.185 $\chi^2$/NDF: 958809.7/78




Right In: 1112.704+/-1479.265 $\chi^2$/NDF: 13.4/15

Left Out: -758.088+/-972.979 $\chi^2$/NDF:24.3/22

Right Out: 866.976+/-1307.223 $\chi^2$/NDF: 15.6/18

Left In: -118.405+/-1015.151 $\chi^2$/NDF:14.9/20

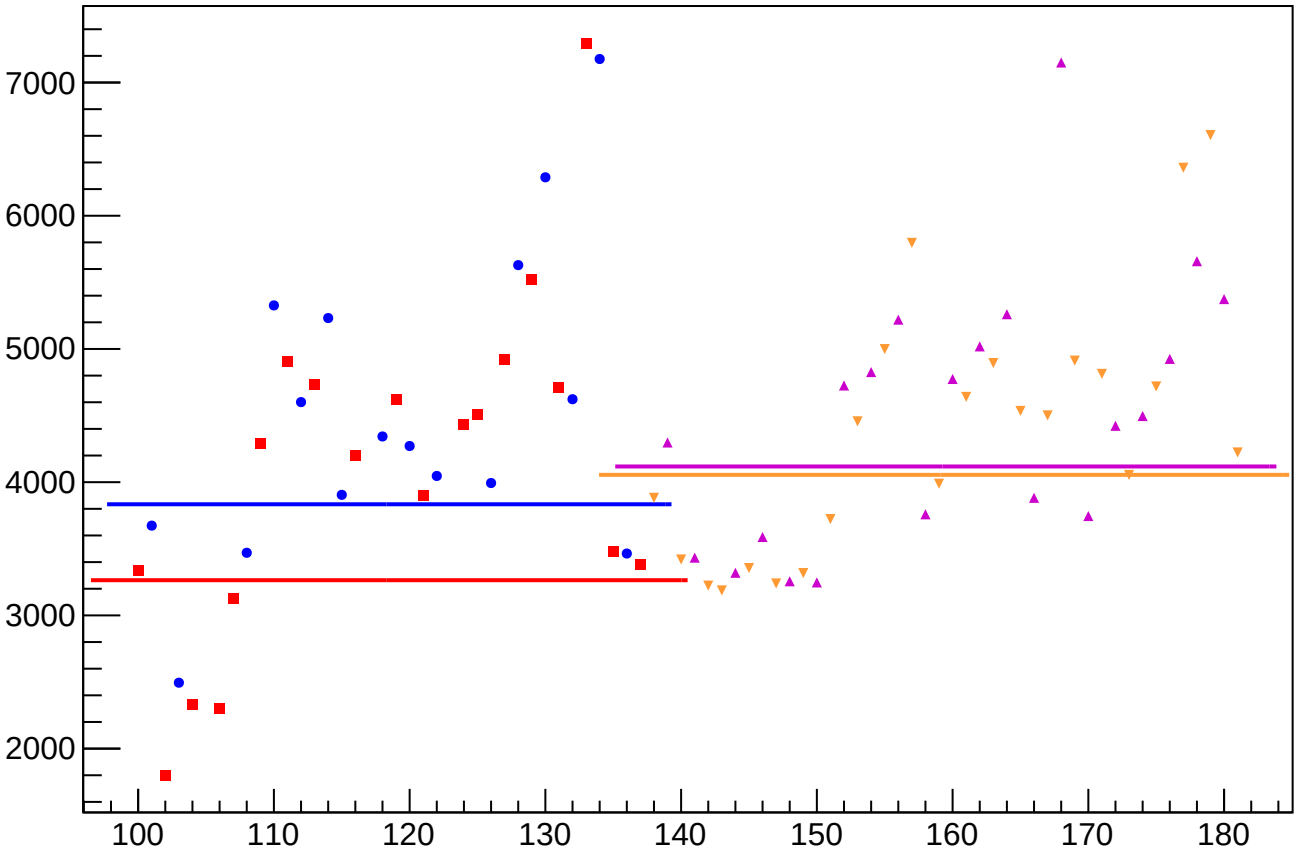
Left: -451.809+/-702.436 $\chi^2$/NDF: 39.5/43

Right: 974.726+/-979.552 $\chi^2$/NDF: 29.0/34

In: 275.752+/-837.014 $\chi^2$/NDF:28.7/36

Out: -178.756+/-780.510 $\chi^2$/NDF:41.0/41

All: 32.641+/-570.835 $\chi^2$/NDF: 69.9/78




Right In: 3834.164+/-1.046 $\chi^2$/NDF: 956775.6/15

Left Out: 4054.985+/-0.688 $\chi^2$/NDF:1402387.1/22

Right Out: 3264.110+/-0.924 $\chi^2$/NDF: 1864241.4/18

Left In: 4117.874+/-0.718 $\chi^2$/NDF:1354765.5/20

Left: 4085.096+/-0.497 $\chi^2$/NDF: 2761153.2/43

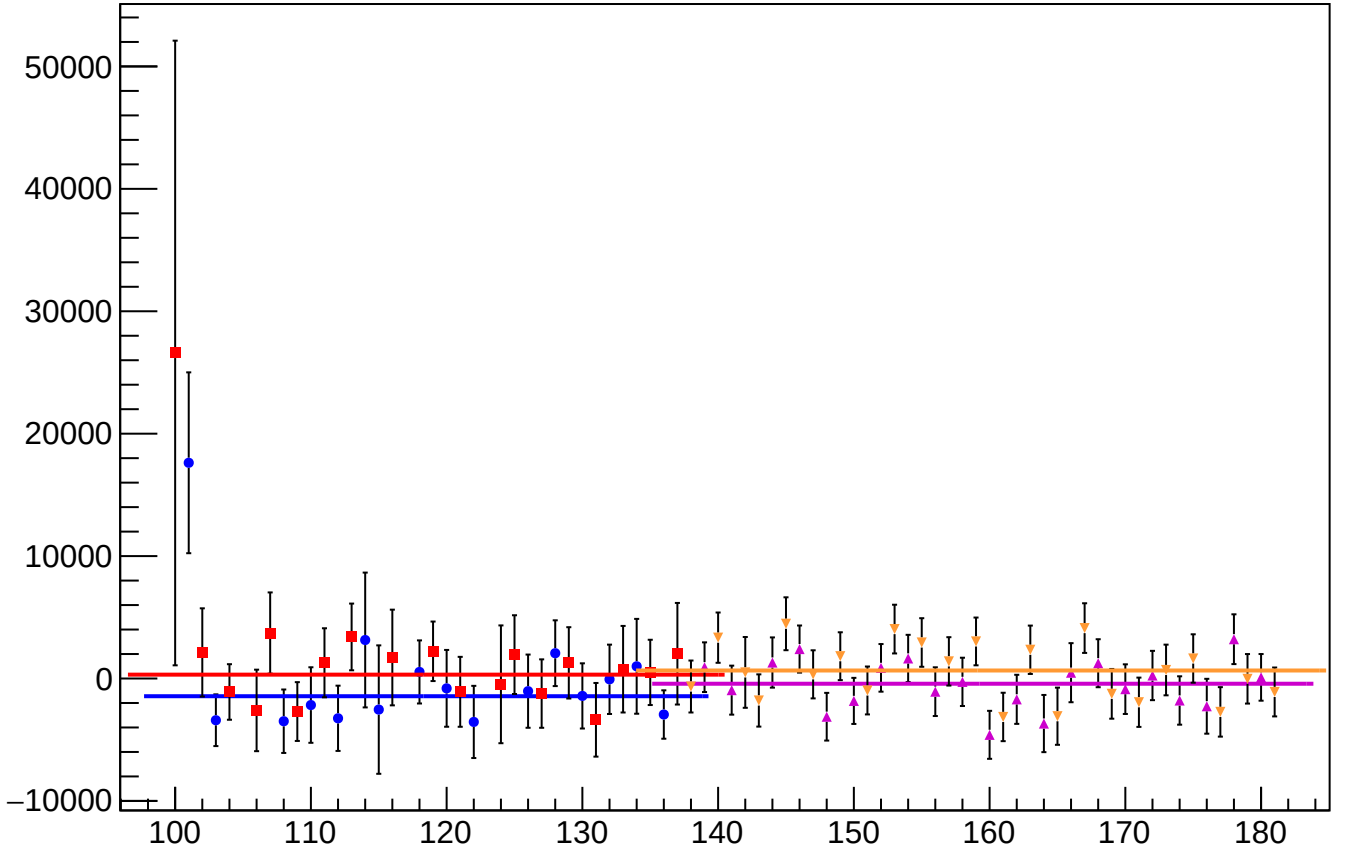
Right: 3514.075+/-0.693 $\chi^2$/NDF: 2987789.5/34

In: 4027.040+/-0.592 $\chi^2$/NDF:2361555.0/36

Out: 3773.039+/-0.552 $\chi^2$/NDF:3737709.0/41

All: 3891.178+/-0.404 $\chi^2$/NDF: 6197778.1/78

# cor_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1446.933+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 654.702+/-427.291 $\chi^2$/NDF:29.8/22

Right Out: 315.462+/-703.596 $\chi^2$/NDF: 9.9/18

Left In: -427.165+/-439.580 $\chi^2$/NDF:19.9/20

Left: 129.102+/-306.393 $\chi^2$/NDF: 52.8/43

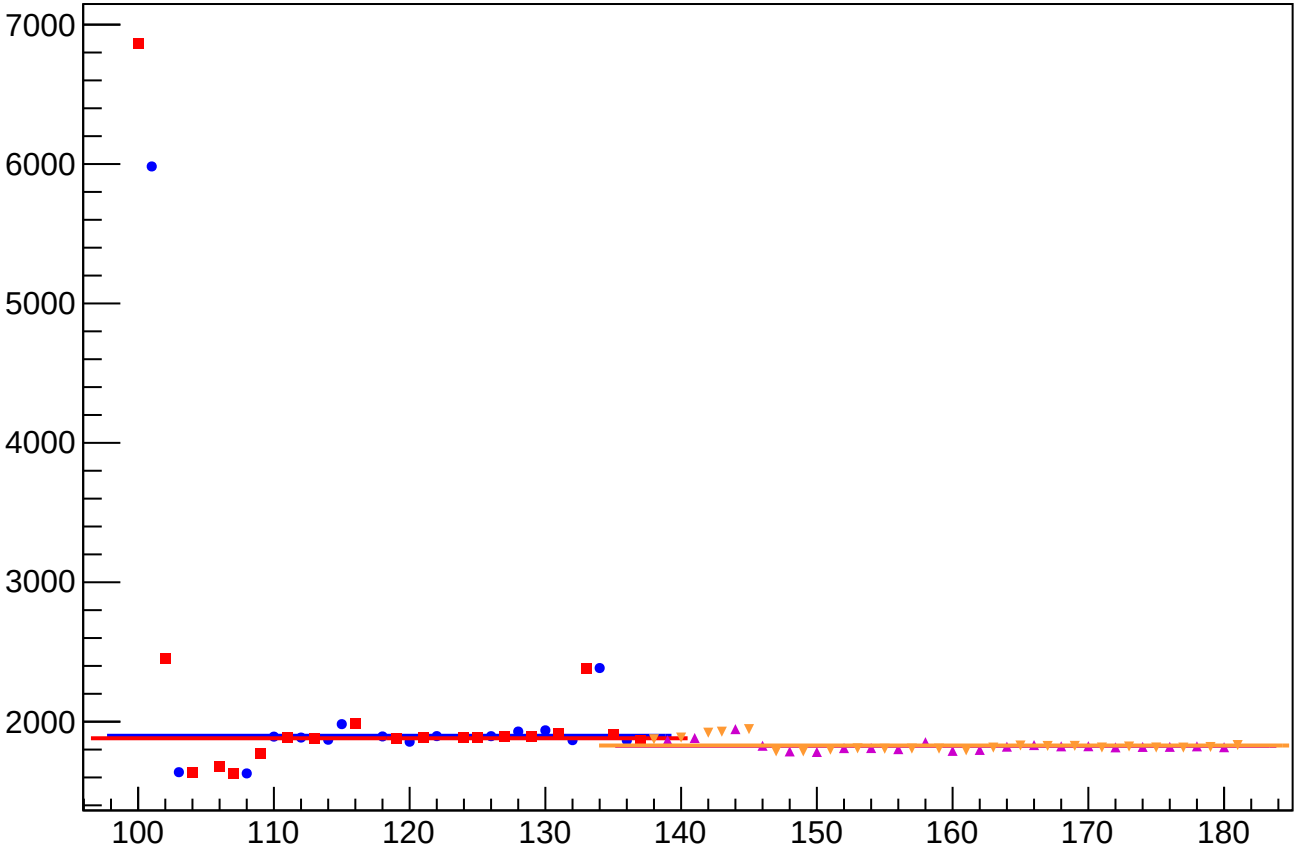
Right: -541.597+/-504.285 $\chi^2$/NDF: 26.4/34

In: -702.313+/-375.625 $\chi^2$/NDF:34.8/36

Out: 563.298+/-365.218 $\chi^2$/NDF:39.9/41

All: -51.733+/-261.850 $\chi^2$/NDF: 80.5/78

# cor_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.4/15

Left Out: 1829.045+/-0.302 $\chi^2$/NDF:19171.1/22

Right Out: 1881.007+/-0.497 $\chi^2$/NDF: 216564.4/18

Left In: 1825.653+/-0.311 $\chi^2$/NDF:13318.8/20

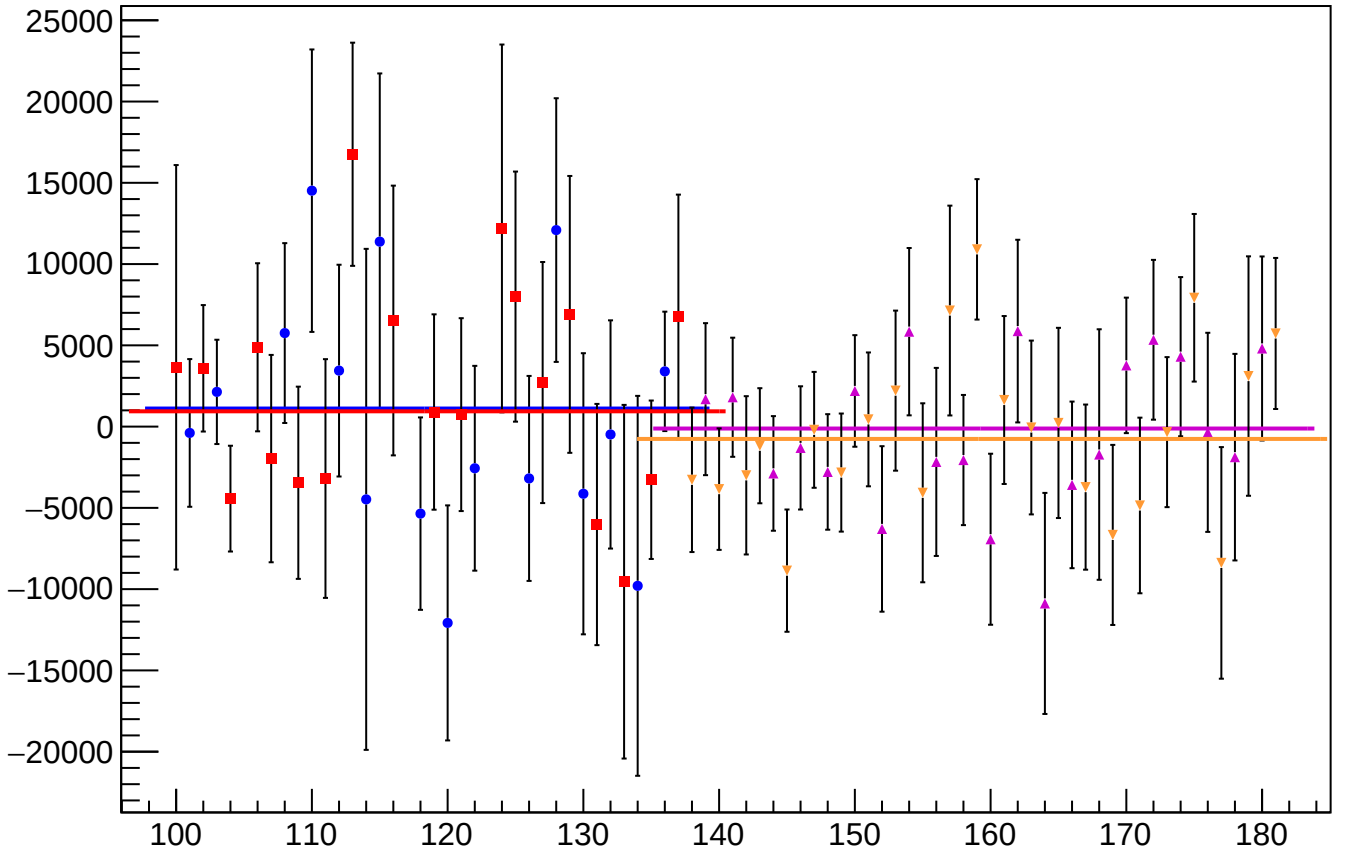
Left: 1827.397+/-0.217 $\chi^2$/NDF: 32551.1/43

Right: 1889.658+/-0.356 $\chi^2$/NDF: 914703.5/34

In: 1845.396+/-0.266 $\chi^2$/NDF:725785.7/36

Out: 1843.077+/-0.258 $\chi^2$/NDF:243722.5/41

All: 1844.204+/-0.185 $\chi^2$/NDF: 969547.4/78




Right In: 1111.533+/-1479.438 $\chi^2$/NDF: 13.4/15

Left Out: -758.082+/-972.979 $\chi^2$/NDF:24.3/22

Right Out: 940.712+/-1398.993 $\chi^2$/NDF: 16.2/18

Left In: -118.404+/-1015.150 $\chi^2$/NDF:14.9/20

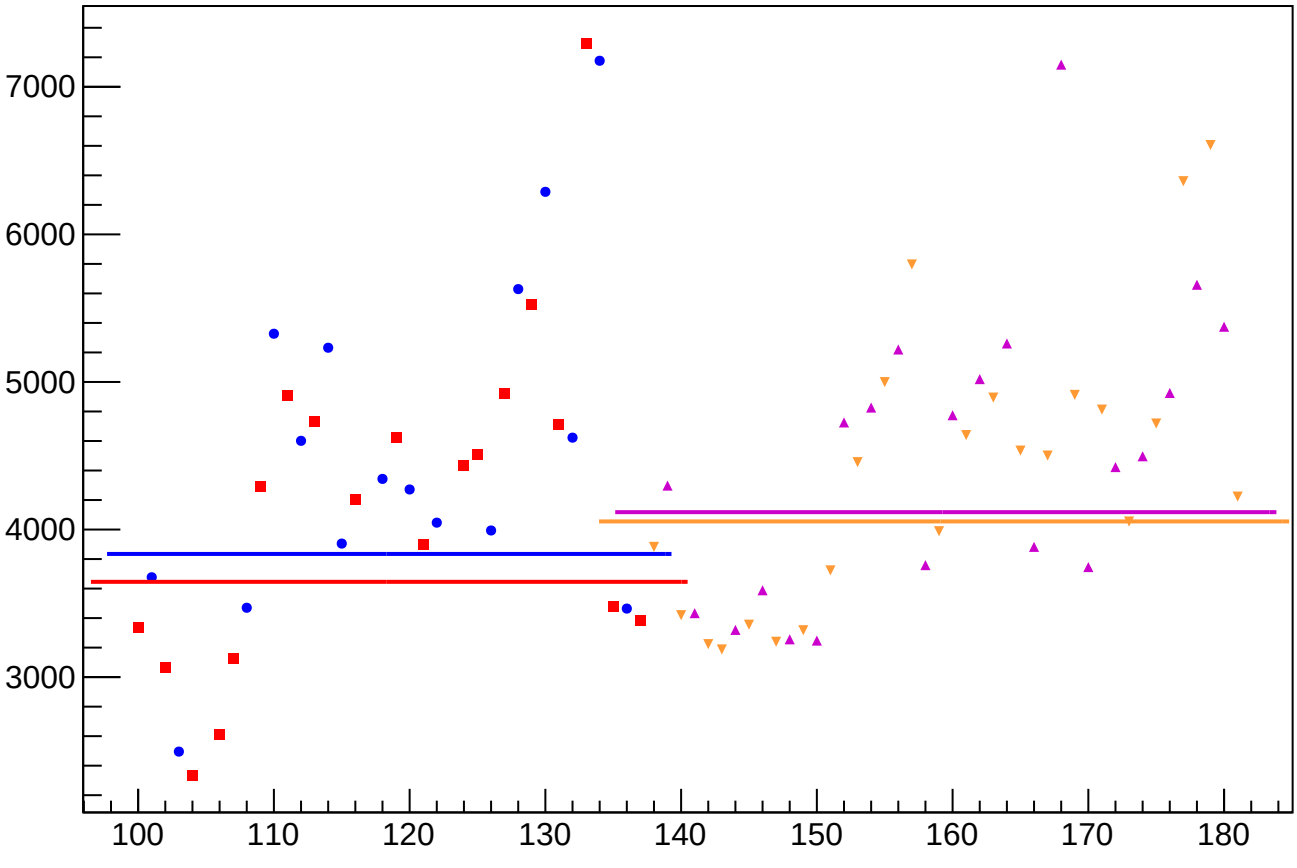
Left: -451.806+/-702.435 $\chi^2$/NDF: 39.5/43

Right: 1021.352+/-1016.487 $\chi^2$/NDF: 29.6/34

In: 275.315+/-837.044 $\chi^2$/NDF:28.7/36

Out: -204.260+/-798.786 $\chi^2$/NDF:41.5/41

All: 24.317+/-577.879 $\chi^2$/NDF: 70.4/78




Right In: 3834.690+/-1.046 $\chi^2$/NDF: 956312.2/15

Left Out: 4054.981+/-0.688 $\chi^2$/NDF:1402381.0/22

Right Out: 3645.689+/-0.989 $\chi^2$/NDF: 1124981.4/18

Left In: 4117.866+/-0.718 $\chi^2$/NDF:1354774.4/20

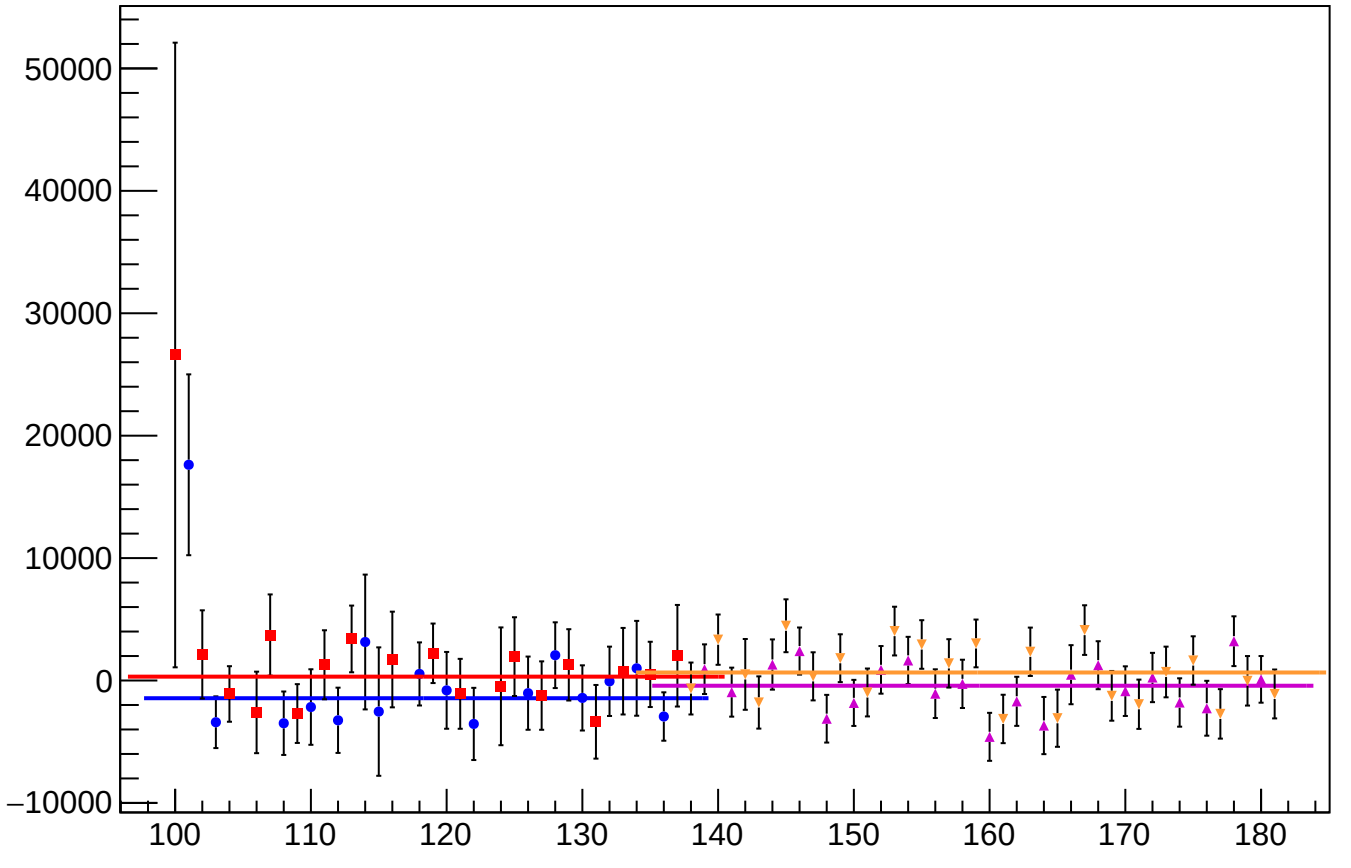
Left: 4085.090+/-0.497 $\chi^2$/NDF: 2761155.4/43

Right: 3734.912+/-0.719 $\chi^2$/NDF: 2098525.6/34

In: 4027.218+/-0.592 $\chi^2$/NDF:2360904.6/36

Out: 3921.548+/-0.565 $\chi^2$/NDF:2642739.6/41

All: 3971.913+/-0.409 $\chi^2$/NDF: 5020326.0/78




Right In: -1446.933+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 654.702+/-427.291 $\chi^2$/NDF:29.8/22

Right Out: 315.462+/-703.596 $\chi^2$/NDF: 9.9/18

Left In: -427.165+/-439.580 $\chi^2$/NDF:19.9/20

Left: 129.102+/-306.393 $\chi^2$/NDF: 52.8/43

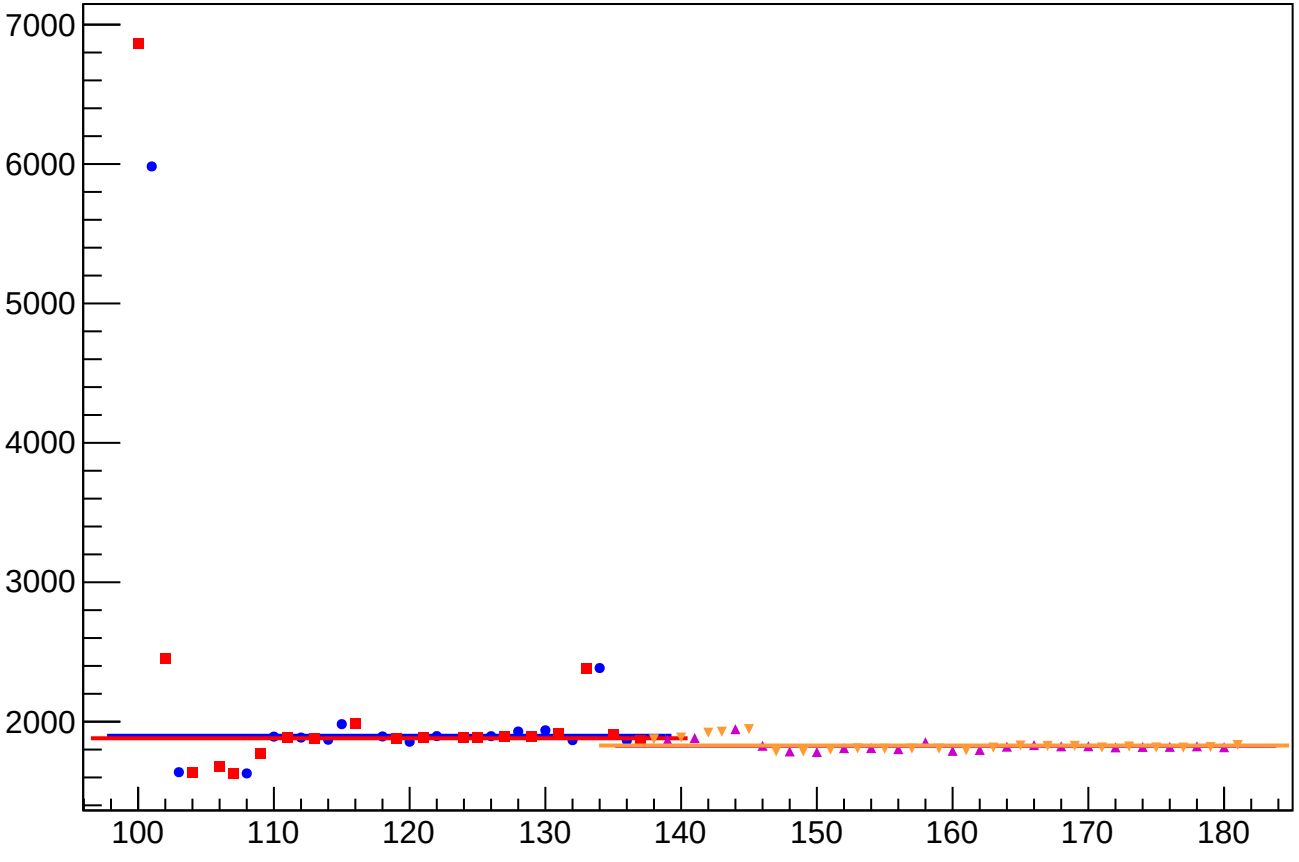
Right: -541.597+/-504.285 $\chi^2$/NDF: 26.4/34

In: -702.313+/-375.625 $\chi^2$/NDF:34.8/36

Out: 563.298+/-365.218 $\chi^2$/NDF:39.9/41

All: -51.733+/-261.850 $\chi^2$/NDF: 80.5/78

# eigen_cor_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.4/15

Left Out: 1829.045+/-0.302 $\chi^2$/NDF:19171.1/22

Right Out: 1881.007+/-0.497 $\chi^2$/NDF: 216564.4/18

Left In: 1825.653+/-0.311 $\chi^2$/NDF:13318.8/20

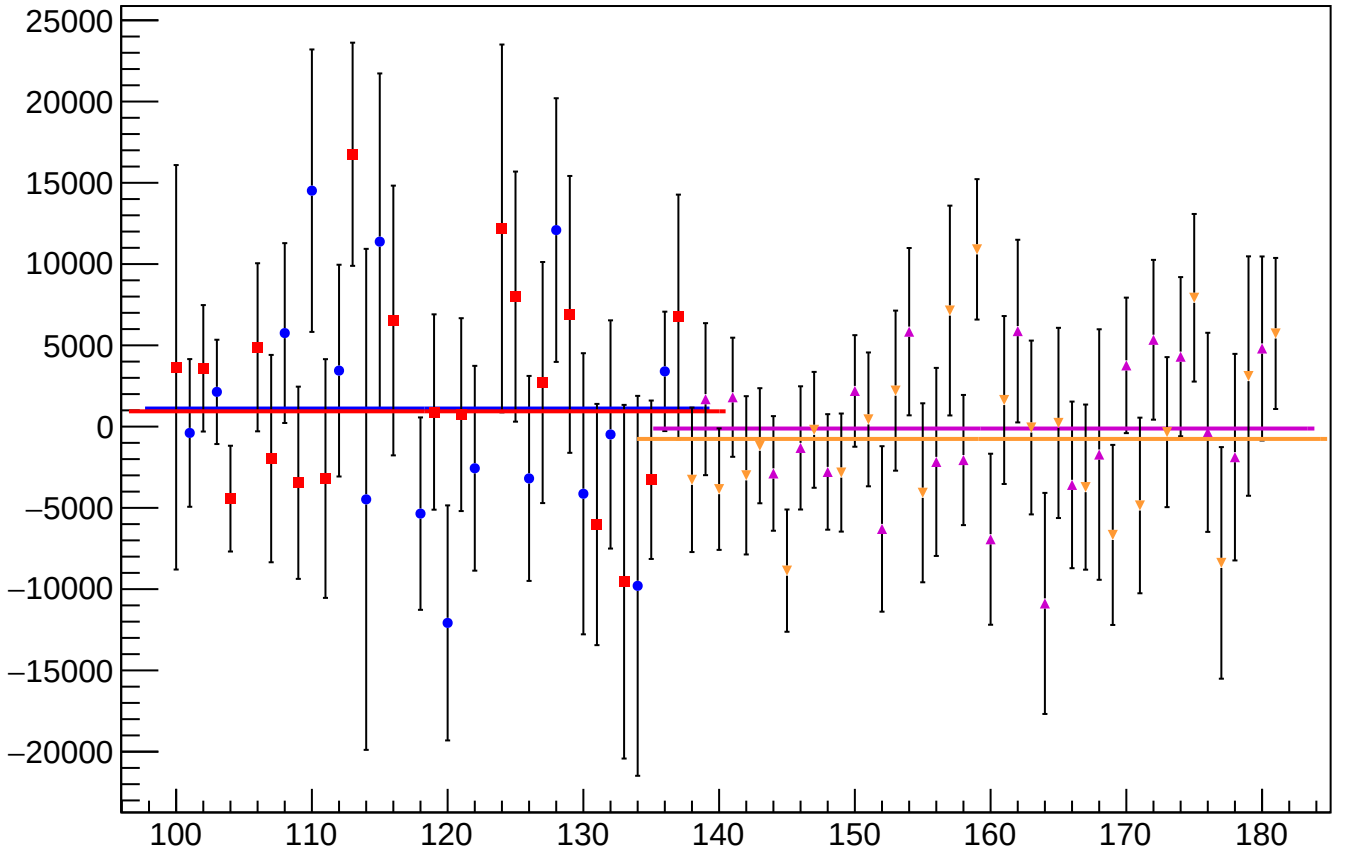
Left: 1827.397+/-0.217 $\chi^2$/NDF: 32551.1/43

Right: 1889.658+/-0.356 $\chi^2$/NDF: 914703.5/34

In: 1845.396+/-0.266 $\chi^2$/NDF:725785.7/36

Out: 1843.077+/-0.258 $\chi^2$/NDF:243722.5/41

All: 1844.204+/-0.185 $\chi^2$/NDF: 969547.4/78




Right In: 1111.533+/-1479.438 $\chi^2$/NDF: 13.4/15

Left Out: -758.082+/-972.979 $\chi^2$/NDF:24.3/22

Right Out: 940.712+/-1398.993 $\chi^2$/NDF: 16.2/18

Left In: -118.404+/-1015.150 $\chi^2$/NDF:14.9/20

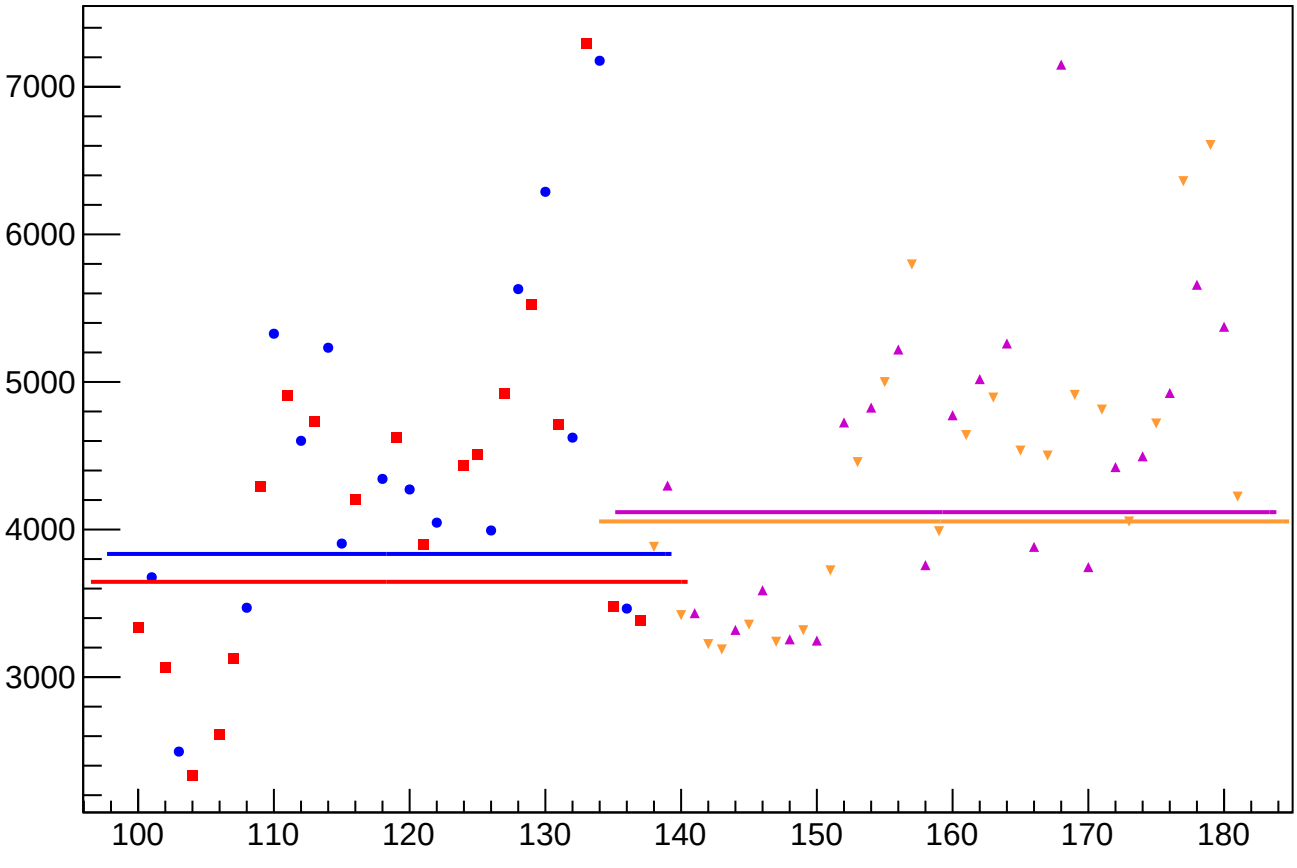
Left: -451.806+/-702.435 $\chi^2$/NDF: 39.5/43

Right: 1021.352+/-1016.487 $\chi^2$/NDF: 29.6/34

In: 275.315+/-837.044 $\chi^2$/NDF:28.7/36

Out: -204.260+/-798.786 $\chi^2$/NDF:41.5/41

All: 24.317+/-577.879 $\chi^2$/NDF: 70.4/78




Right In: 3834.690+/-1.046 $\chi^2$/NDF: 956312.2/15

Left Out: 4054.981+/-0.688 $\chi^2$/NDF:1402381.0/22

Right Out: 3645.689+/-0.989 $\chi^2$/NDF: 1124981.4/18

Left In: 4117.866+/-0.718 $\chi^2$/NDF:1354774.4/20

Left: 4085.090+/-0.497 $\chi^2$/NDF: 2761155.4/43

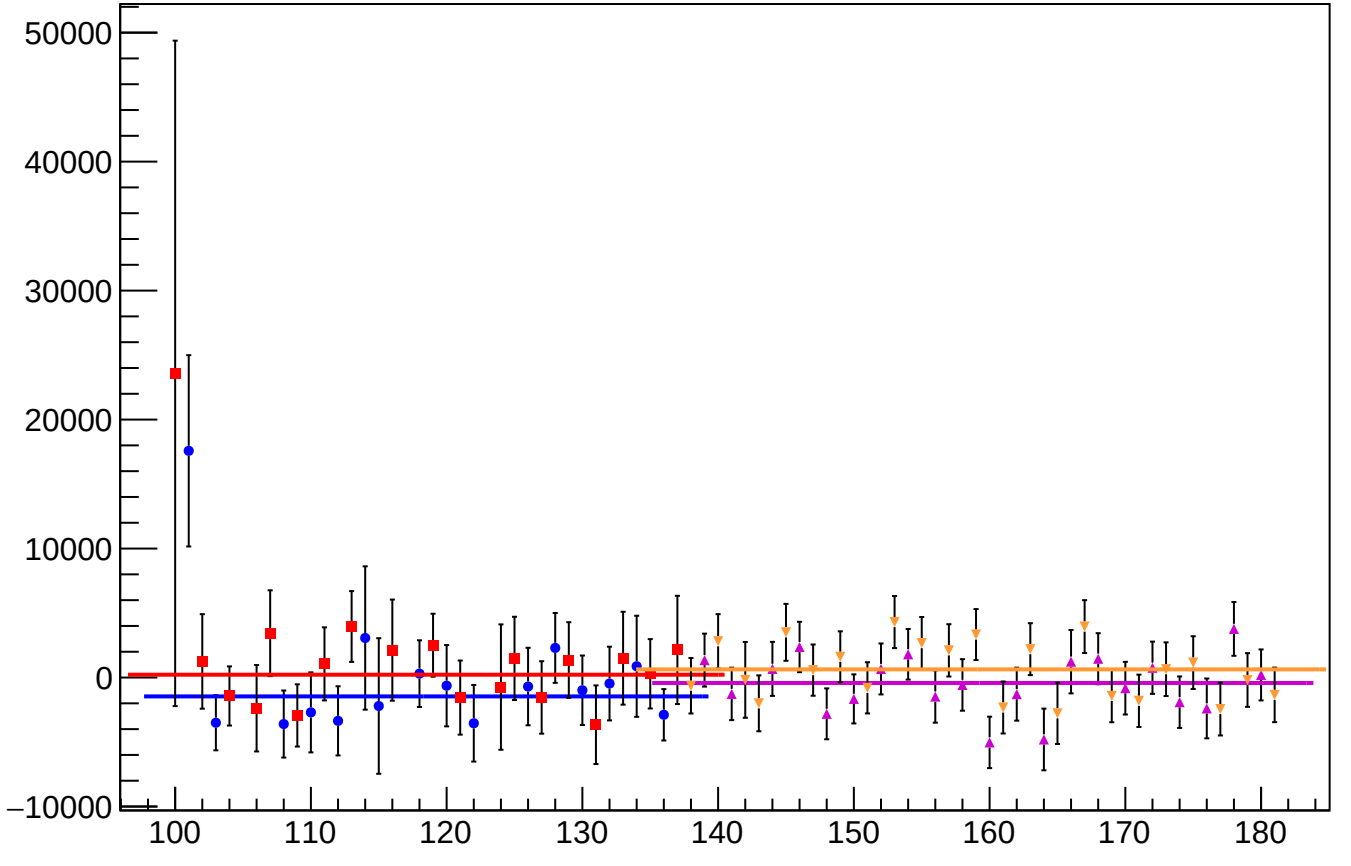
Right: 3734.912+/-0.719 $\chi^2$/NDF: 2098525.6/34

In: 4027.218+/-0.592 $\chi^2$/NDF:2360904.6/36

Out: 3921.548+/-0.565 $\chi^2$/NDF:2642739.6/41

All: 3971.913+/-0.409 $\chi^2$/NDF: 5020326.0/78

# dit_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1462.640+/-728.274 $\chi^2$/NDF: 13.6/15

Left Out: 632.608+/-435.035 $\chi^2$/NDF:25.4/22

Right Out: 219.726+/-708.852 $\chi^2$/NDF: 10.8/18

Left In: -421.009+/-446.998 $\chi^2$/NDF:23.0/20

Left: 120.088+/-311.760 $\chi^2$/NDF: 51.3/43

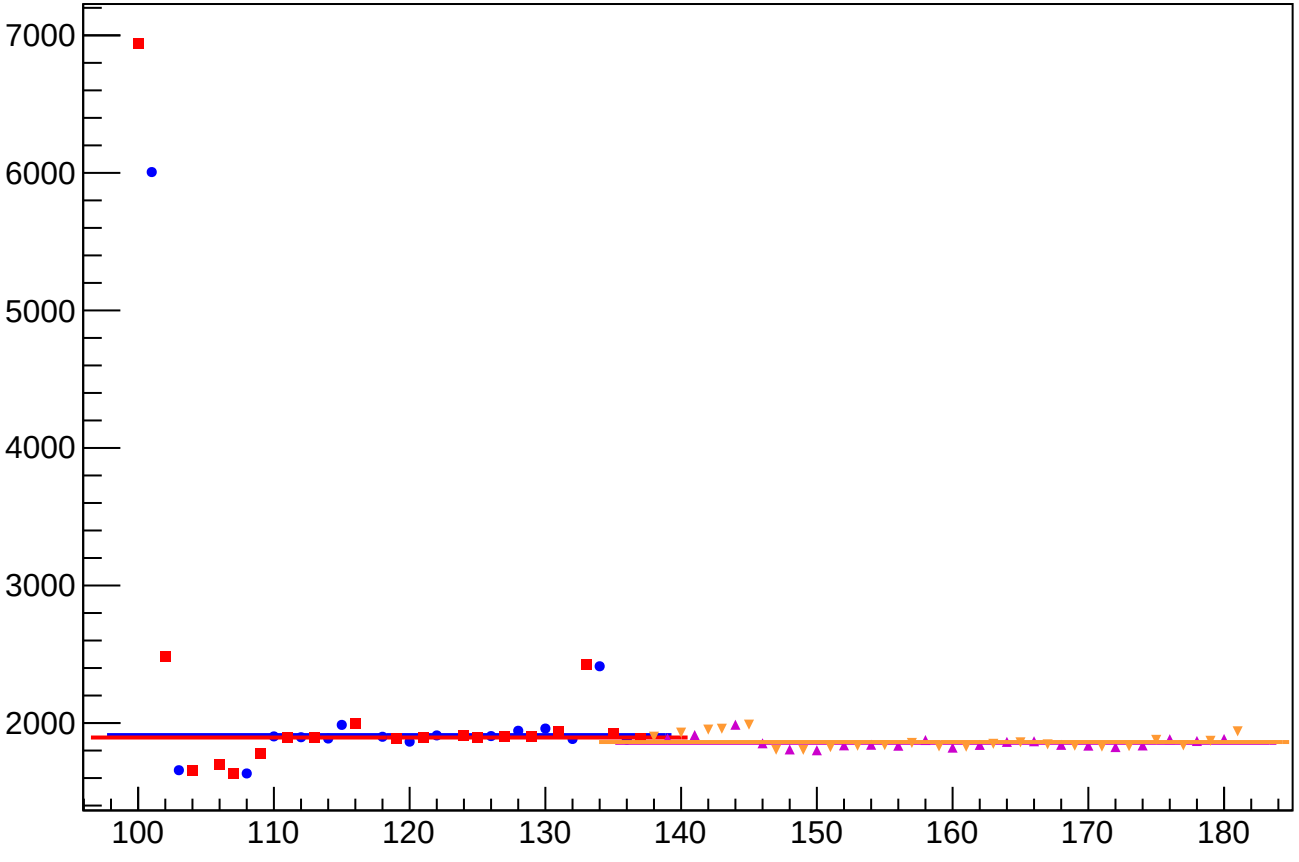
Right: -598.725+/-507.962 $\chi^2$/NDF: 27.1/34

In: -706.038+/-380.963 $\chi^2$/NDF:38.1/36

Out: 519.644+/-370.777 $\chi^2$/NDF:36.4/41

All: -76.592+/-265.707 $\chi^2$/NDF: 79.8/78

# dit_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1912.378+/-0.515 $\chi^2$/NDF: 696220.3/15

Left Out: 1861.877+/-0.308 $\chi^2$/NDF:25552.3/22

Right Out: 1894.765+/-0.501 $\chi^2$/NDF: 219781.5/18

Left In: 1856.265+/-0.316 $\chi^2$/NDF:15901.1/20

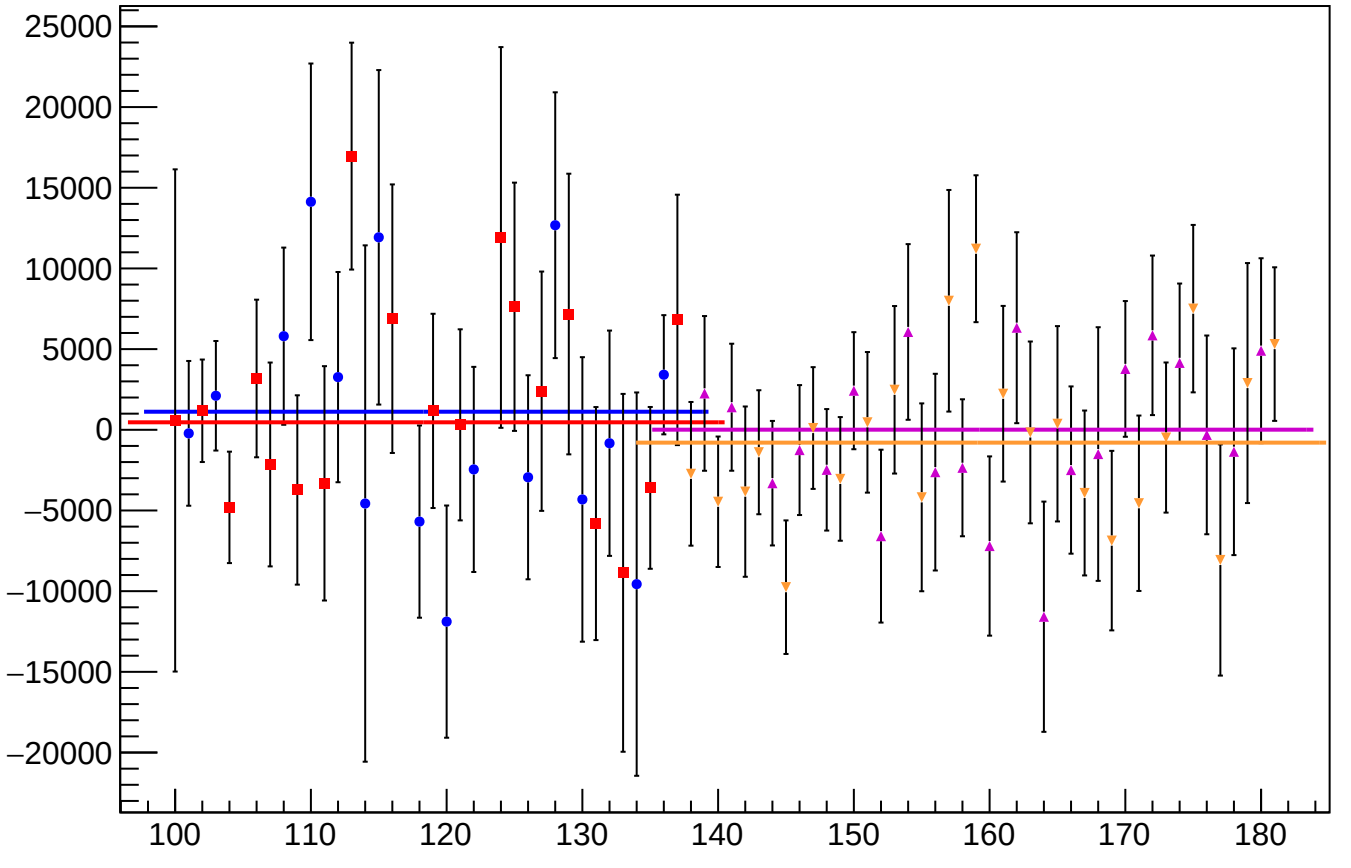
Left: 1859.147+/-0.220 $\chi^2$/NDF: 41615.3/43

Right: 1903.324+/-0.359 $\chi^2$/NDF: 916603.1/34

In: 1871.620+/-0.269 $\chi^2$/NDF:720745.6/36

Out: 1870.889+/-0.262 $\chi^2$/NDF:248465.9/41

All: 1871.245+/-0.188 $\chi^2$/NDF: 969215.2/78




Right In: 1120.173+/-1497.671 $\chi^2$/NDF: 13.5/15

Left Out: -795.884+/-1019.089 $\chi^2$/NDF:23.8/22

Right Out: 464.368+/-1370.818 $\chi^2$/NDF: 15.0/18

Left In: 7.289+/-1060.850 $\chi^2$/NDF:14.7/20

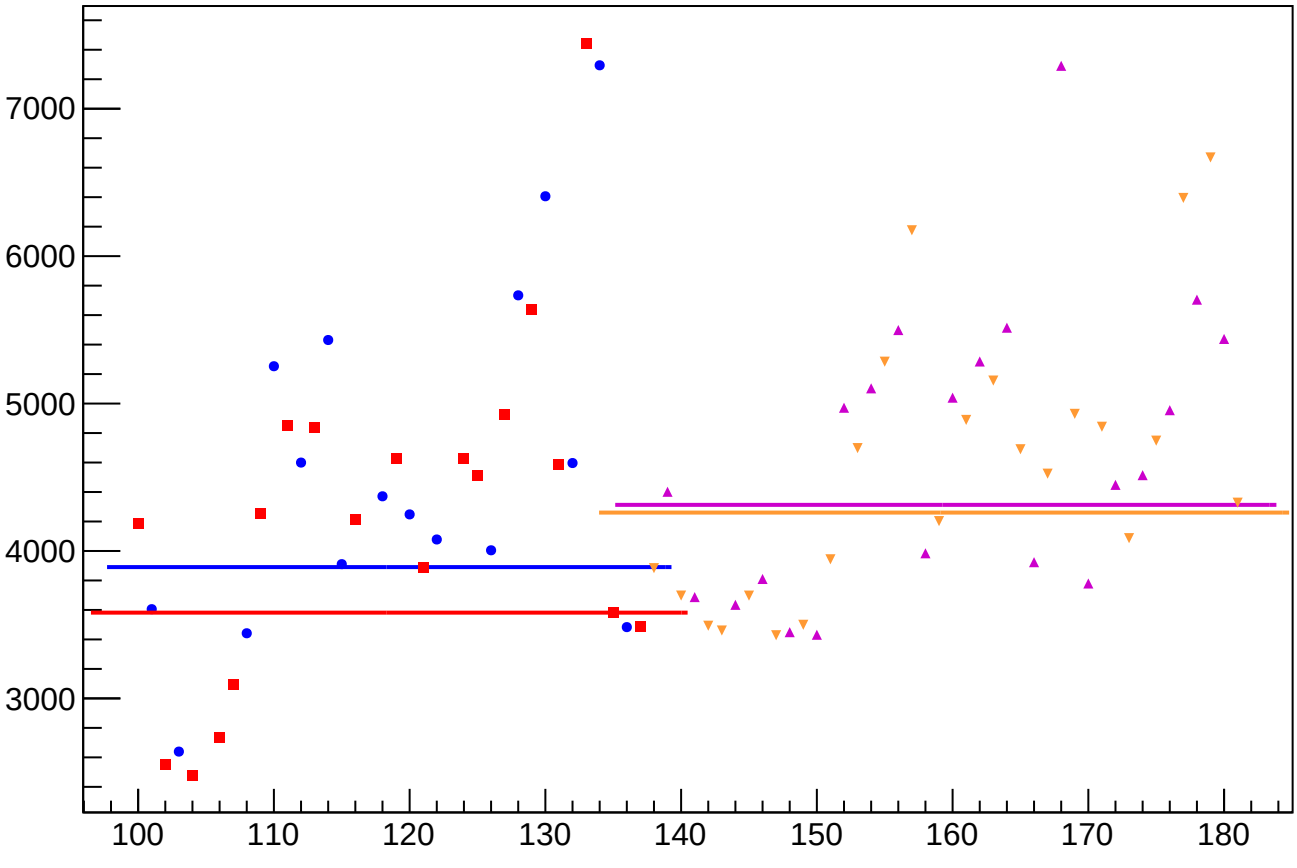
Left: -410.417+/-734.925 $\chi^2$/NDF: 38.8/43

Right: 763.326+/-1011.192 $\chi^2$/NDF: 28.6/34

In: 379.108+/-865.680 $\chi^2$/NDF:28.6/36

Out: -347.301+/-817.848 $\chi^2$/NDF:39.3/41

All: -4.718+/-594.497 $\chi^2$/NDF: 68.3/78




Right In: 3890.708+/-1.059 $\chi^2$/NDF: 878418.2/15

Left Out: 4260.514+/-0.721 $\chi^2$/NDF:1190544.9/22

Right Out: 3581.780+/-0.969 $\chi^2$/NDF: 1221855.2/18

Left In: 4312.862+/-0.750 $\chi^2$/NDF:1201339.5/20

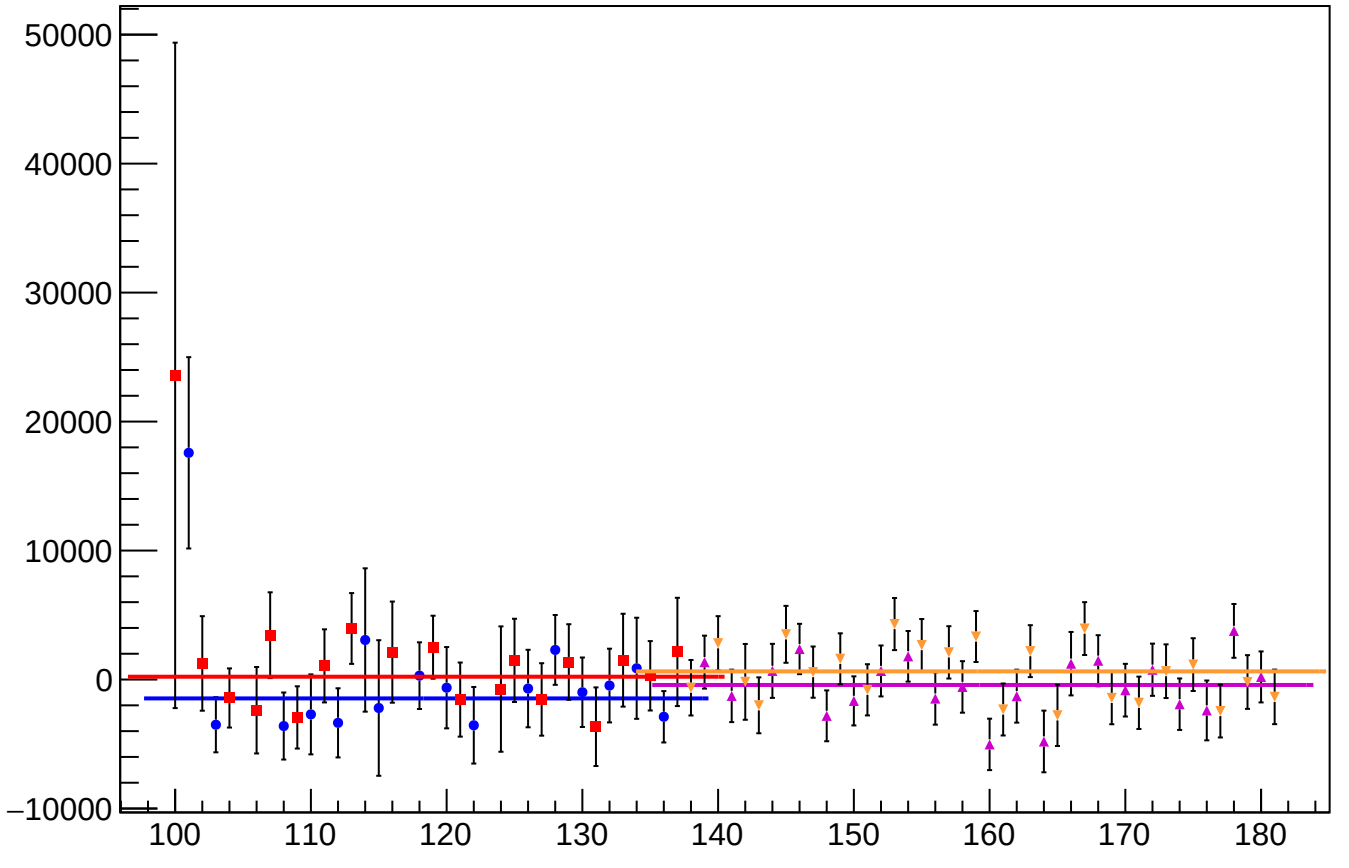
Left: 4285.637+/-0.520 $\chi^2$/NDF: 2394417.1/43

Right: 3722.609+/-0.715 $\chi^2$/NDF: 2146577.5/34

In: 4171.819+/-0.612 $\chi^2$/NDF:2185572.4/36

Out: 4018.920+/-0.578 $\chi^2$/NDF:2728184.1/41

All: 4091.029+/-0.420 $\chi^2$/NDF: 4946723.2/78




Right In: -1462.646+/-728.274 $\chi^2$/NDF: 13.6/15

Left Out: 632.613+/-435.035 $\chi^2$/NDF:25.4/22

Right Out: 219.720+/-708.852 $\chi^2$/NDF: 10.8/18

Left In: -421.009+/-446.998 $\chi^2$/NDF:23.0/20

Left: 120.091+/-311.760 $\chi^2$/NDF: 51.3/43

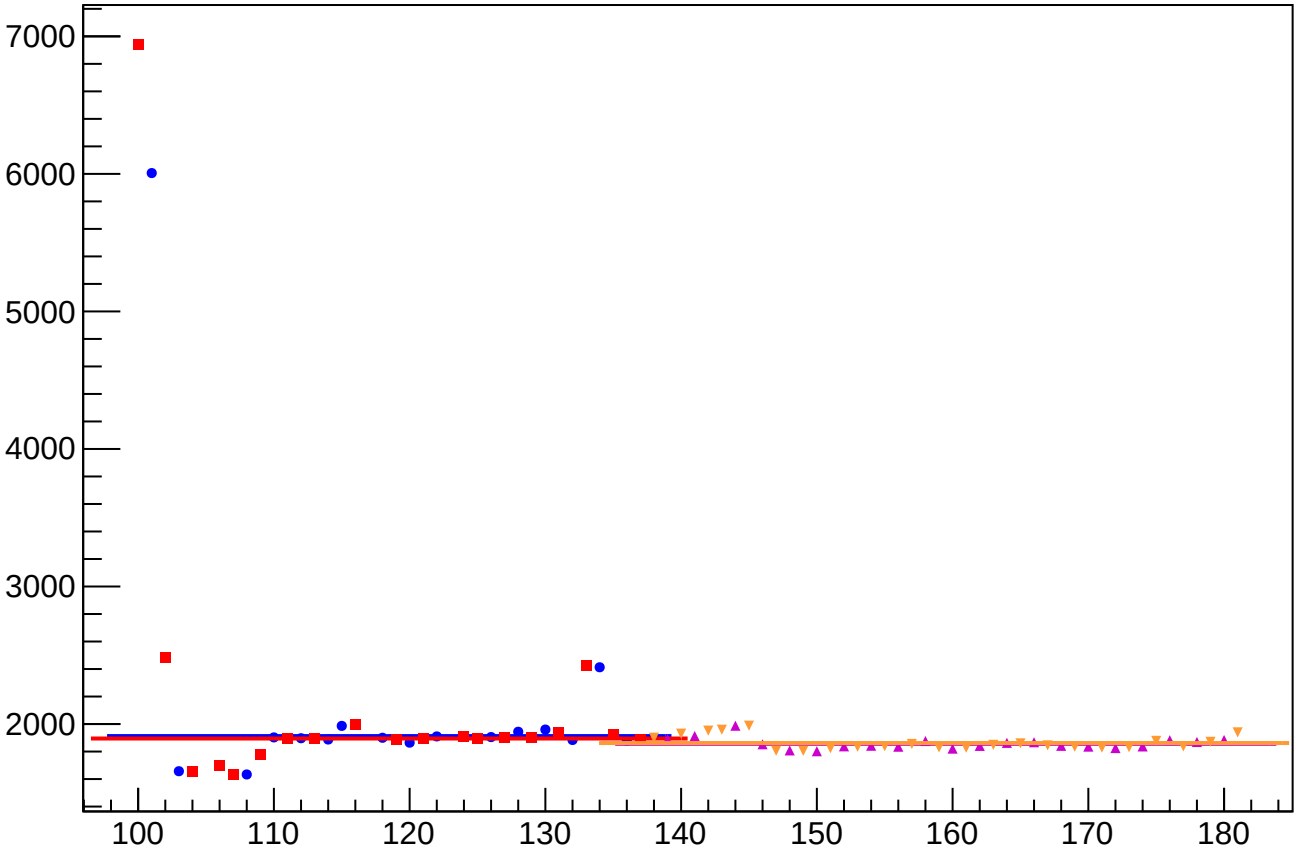
Right: -598.730+/-507.962 $\chi^2$/NDF: 27.1/34

In: -706.040+/-380.963 $\chi^2$/NDF:38.1/36

Out: 519.646+/-370.777 $\chi^2$/NDF:36.4/41

All: -76.591+/-265.707 $\chi^2$/NDF: 79.8/78

# eigen_dit_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1912.378+/-0.515 $\chi^2$/NDF: 696220.1/15

Left Out: 1861.878+/-0.308 $\chi^2$/NDF:25552.3/22

Right Out: 1894.765+/-0.501 $\chi^2$/NDF: 219781.5/18

Left In: 1856.266+/-0.316 $\chi^2$/NDF:15901.0/20

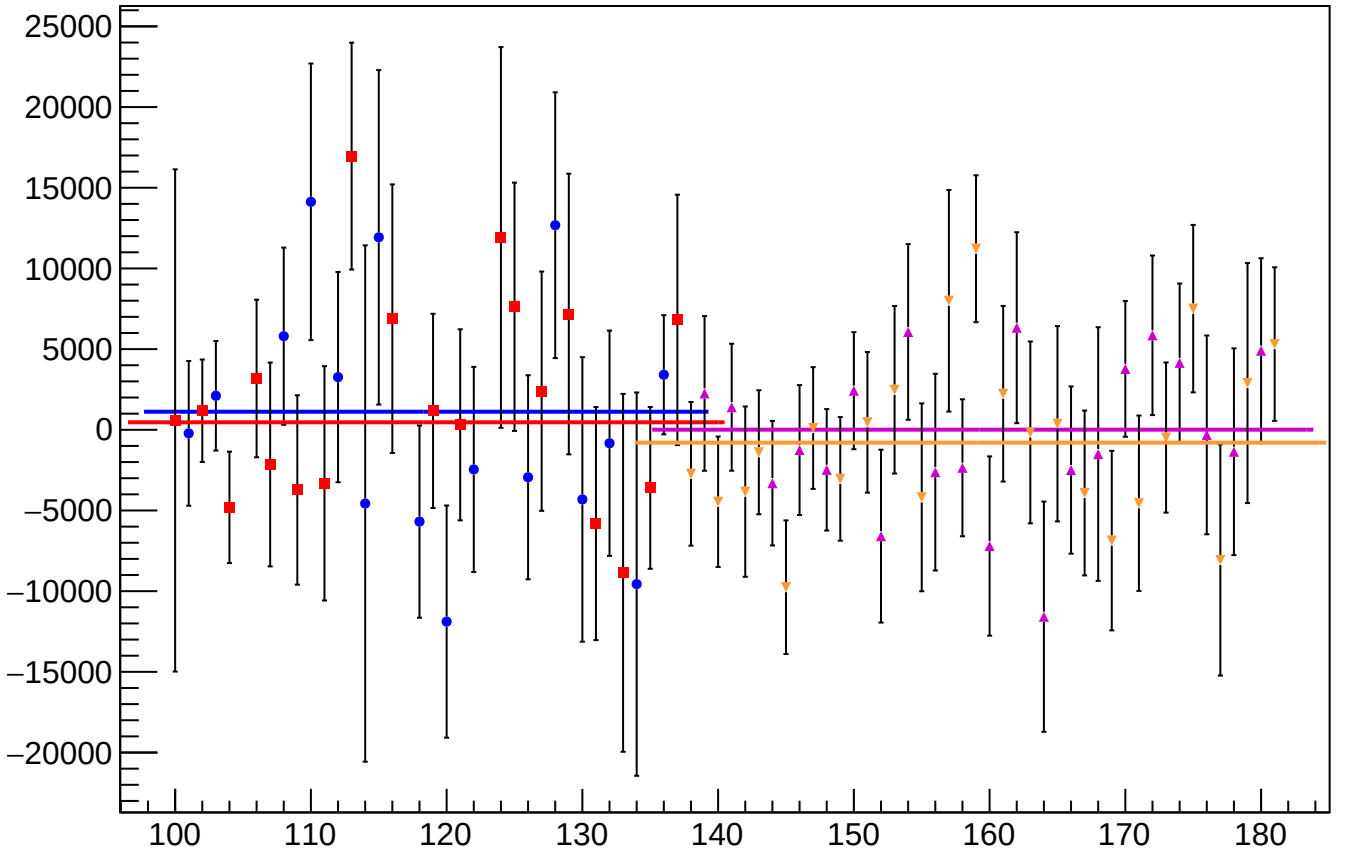
Left: 1859.148+/-0.220 $\chi^2$/NDF: 41615.2/43

Right: 1903.324+/-0.359 $\chi^2$/NDF: 916602.9/34

In: 1871.620+/-0.269 $\chi^2$/NDF:720745.2/36

Out: 1870.890+/-0.262 $\chi^2$/NDF:248465.7/41

All: 1871.245+/-0.188 $\chi^2$/NDF: 969214.6/78




Right In: 1120.159+/-1497.669 $\chi^2$/NDF: 13.5/15

Left Out: -795.883+/-1019.090 $\chi^2$/NDF:23.8/22

Right Out: 464.367+/-1370.817 $\chi^2$/NDF: 15.0/18

Left In: 7.290+/-1060.852 $\chi^2$/NDF:14.7/20

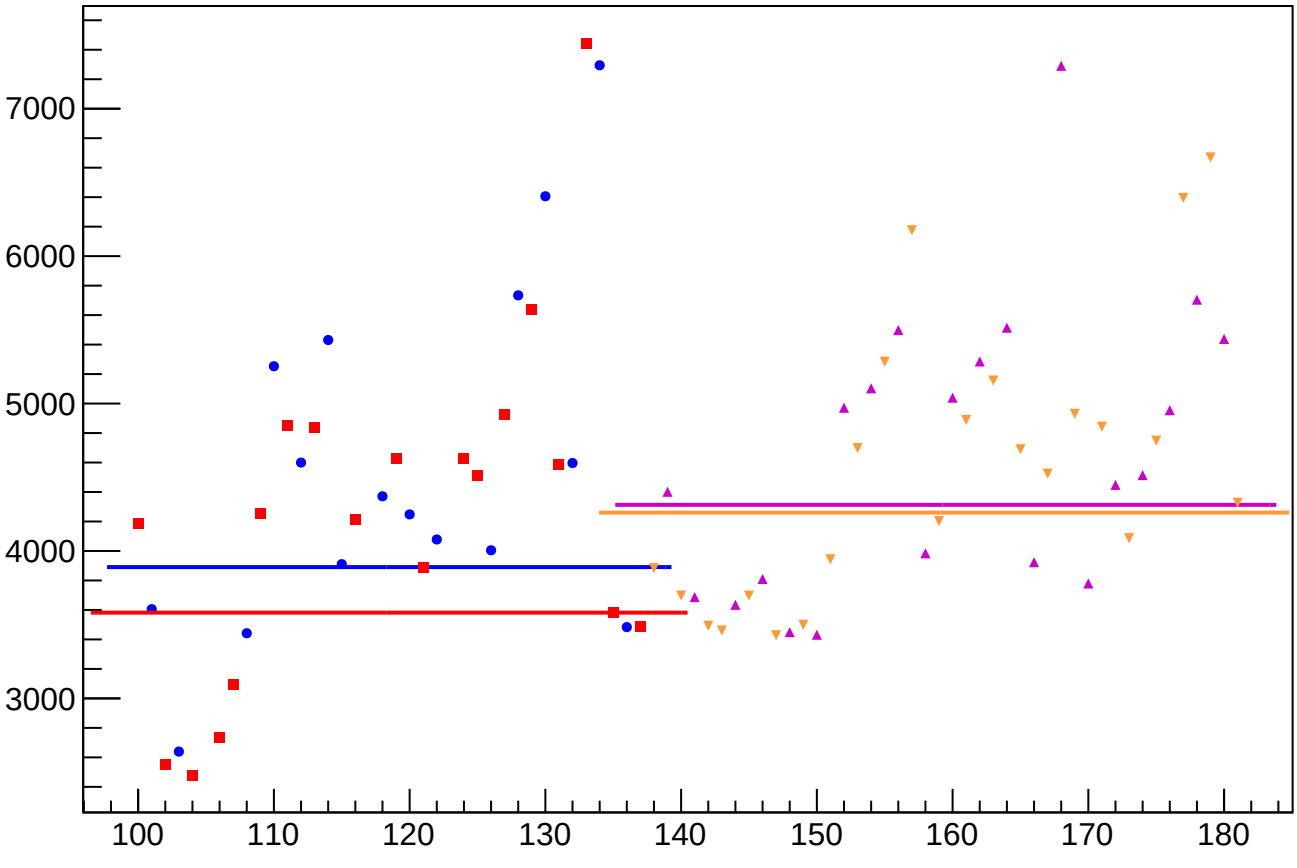
Left: -410.416+/-734.926 $\chi^2$/NDF: 38.8/43

Right: 763.319+/-1011.191 $\chi^2$/NDF: 28.6/34

In: 379.106+/-865.680 $\chi^2$/NDF:28.6/36

Out: -347.298+/-817.849 $\chi^2$/NDF:39.3/41

All: -4.718+/-594.497 $\chi^2$/NDF: 68.3/78




Right In: 3890.705+/-1.059 $\chi^2$/NDF: 878409.2/15

Left Out: 4260.520+/-0.721 $\chi^2$/NDF:1190547.7/22

Right Out: 3581.777+/-0.969 $\chi^2$/NDF: 1221846.6/18

Left In: 4312.869+/-0.750 $\chi^2$/NDF:1201345.1/20

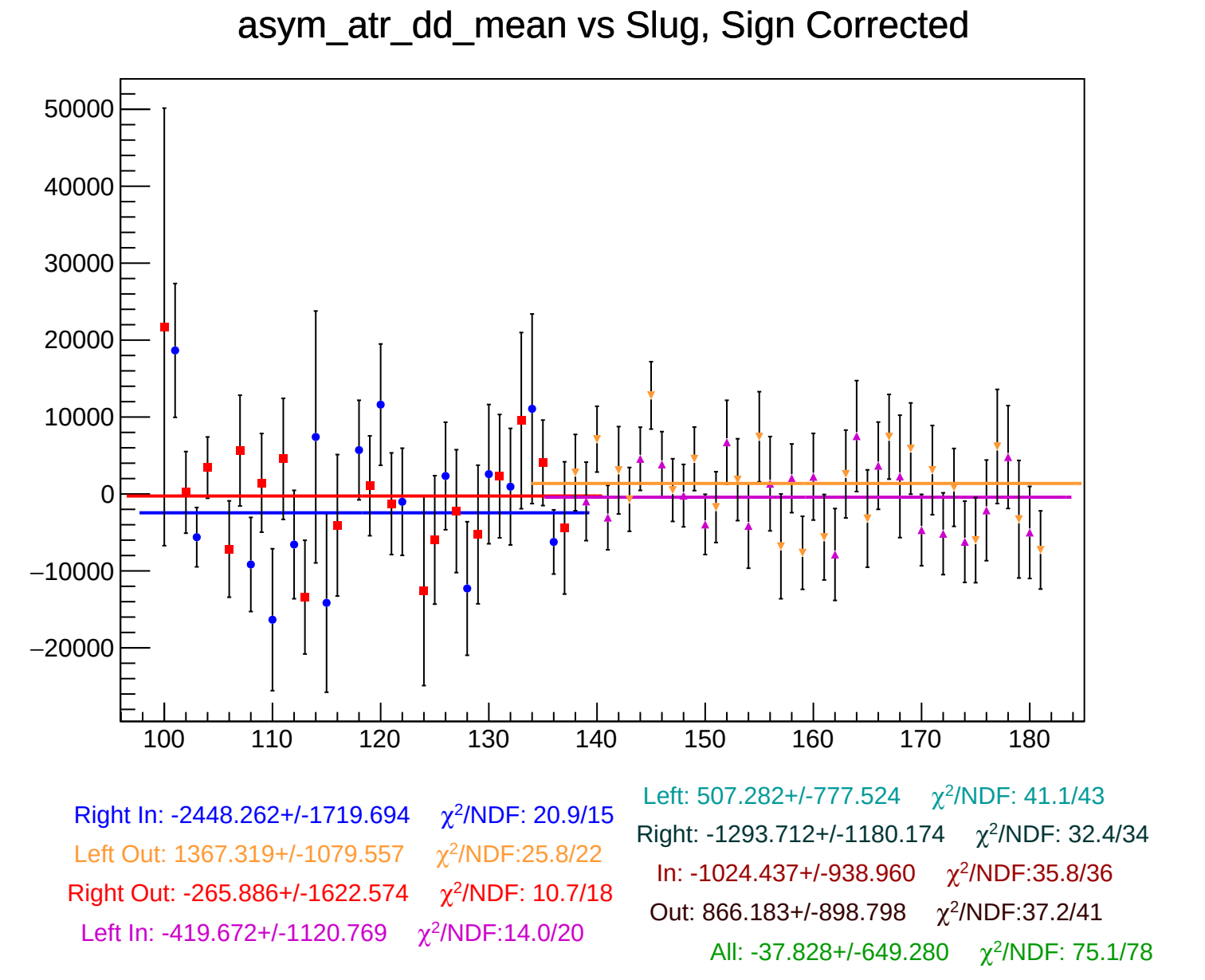
Left: 4285.644+/-0.520 $\chi^2$/NDF: 2394425.5/43

Right: 3722.606+/-0.715 $\chi^2$/NDF: 2146560.1/34

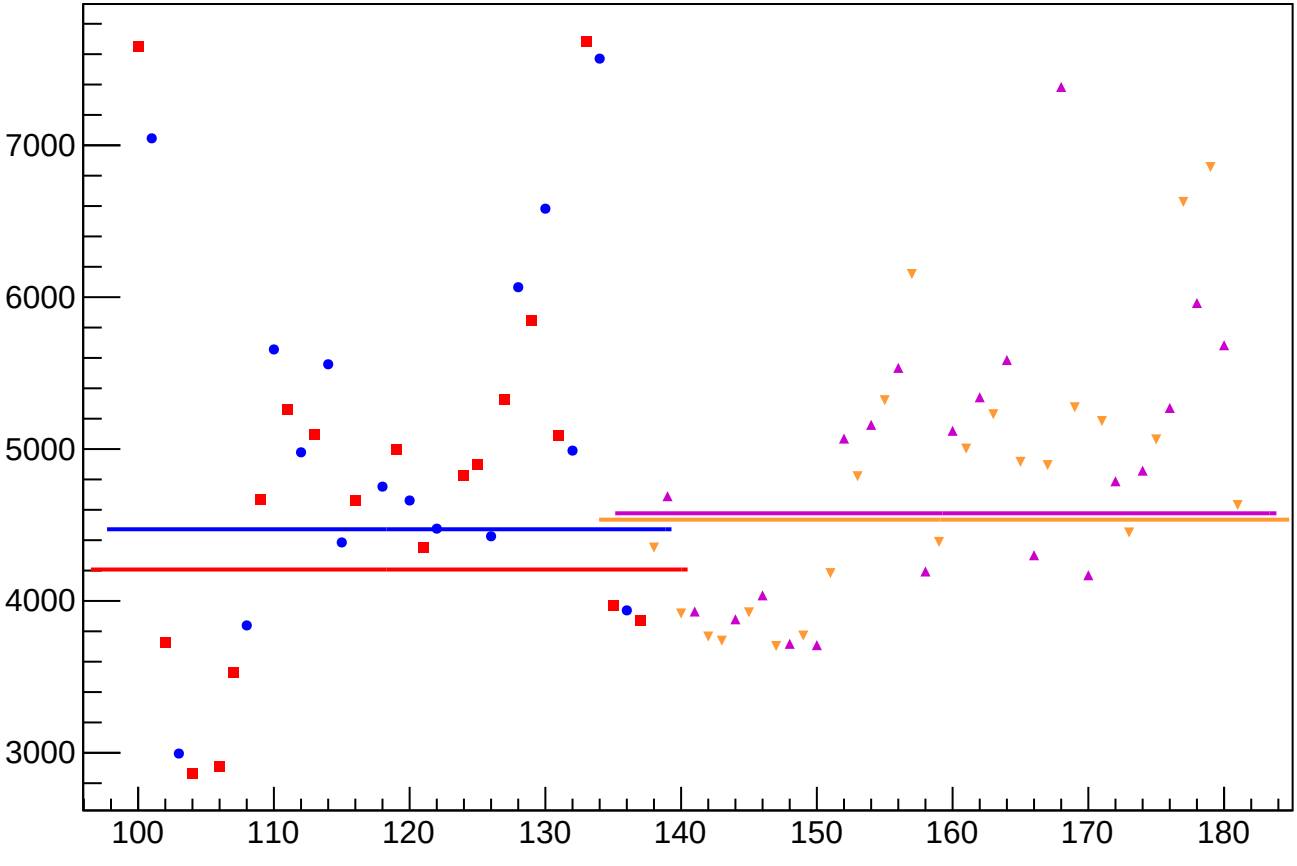
In: 4171.822+/-0.612 $\chi^2$/NDF:2185573.7/36

Out: 4018.923+/-0.578 $\chi^2$/NDF:2728187.5/41

All: 4091.032+/-0.420 $\chi^2$/NDF: 4946728.2/78


asym_atr_dd_mean vs Slug, Sign Corrected
50000
40000
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -2448.262+/-1719.694 χ²/NDF: 20.9/15
Left Out: 1367.319+/-1079.557 χ²/NDF:25.8/22
Right Out: -265.886+/-1622.574 χ²/NDF: 10.7/18
Left In: -419.672+/-1120.769 χ²/NDF:14.0/20
Left: 507.282+/-777.524 χ²/NDF: 41.1/43
Right: -1293.712+/-1180.174 χ²/NDF: 32.4/34
In: -1024.437+/-938.960 χ²/NDF:35.8/36
Out: 866.183+/-898.798 χ²/NDF:37.2/41
All: -37.828+/-649.280 χ²/NDF: 75.1/78

# asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 4471.904+/-1.216 $\chi^2$/NDF: 891678.4/15

Left Out: 4535.095+/-0.763 $\chi^2$/NDF:992636.1/22

Right Out: 4206.907+/-1.138 $\chi^2$/NDF: 846525.2/18

Left In: 4577.035+/-0.793 $\chi^2$/NDF:973773.2/20

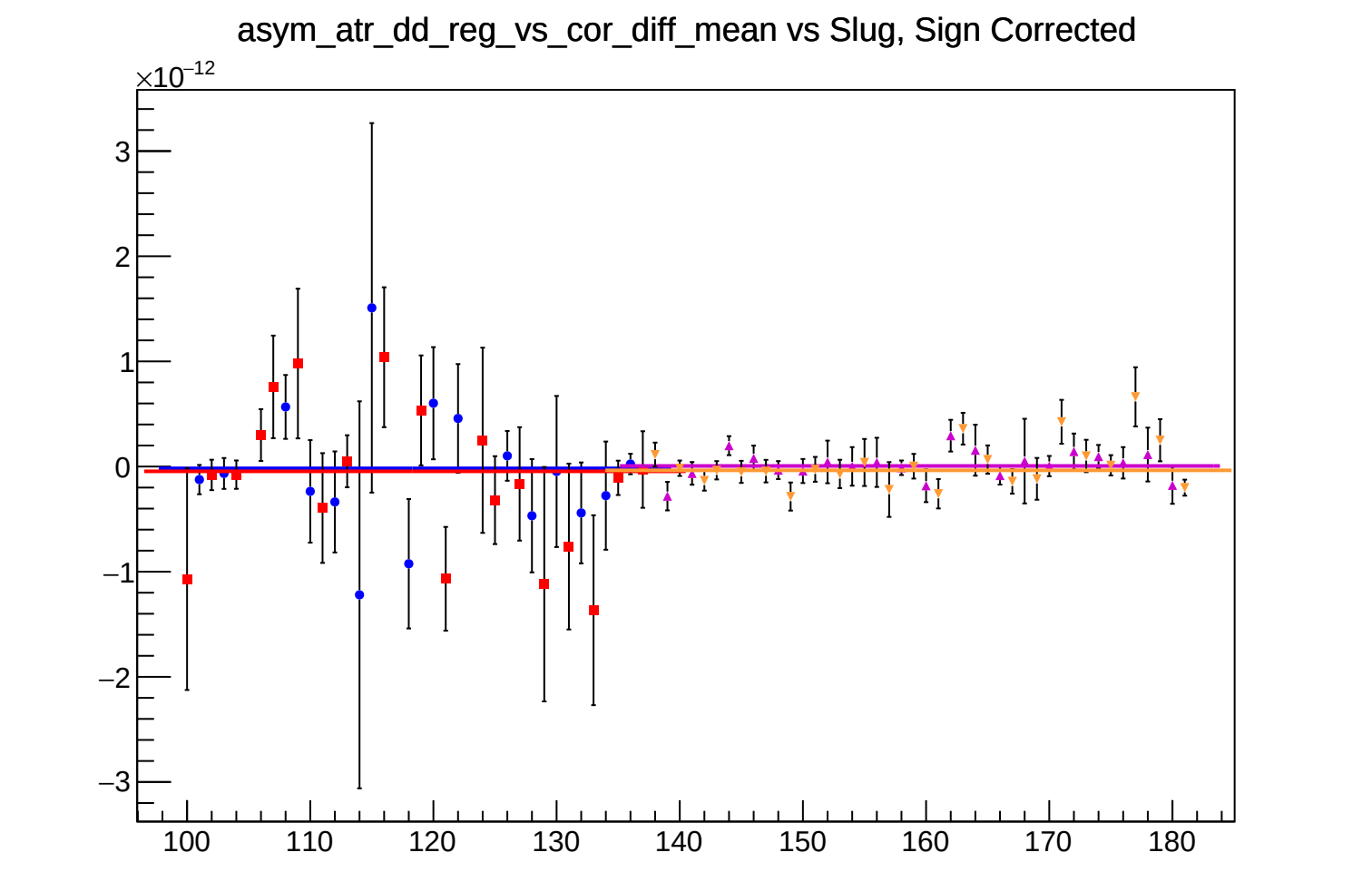
Left: 4555.280+/-0.550 $\chi^2$/NDF: 1967862.0/43

Right: 4330.631+/-0.831 $\chi^2$/NDF: 1763521.7/34

In: 4545.693+/-0.664 $\chi^2$/NDF:1870697.8/36

Out: 4433.246+/-0.634 $\chi^2$/NDF:1896522.7/41

All: 4486.872+/-0.459 $\chi^2$/NDF: 3782225.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:36.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.6/20

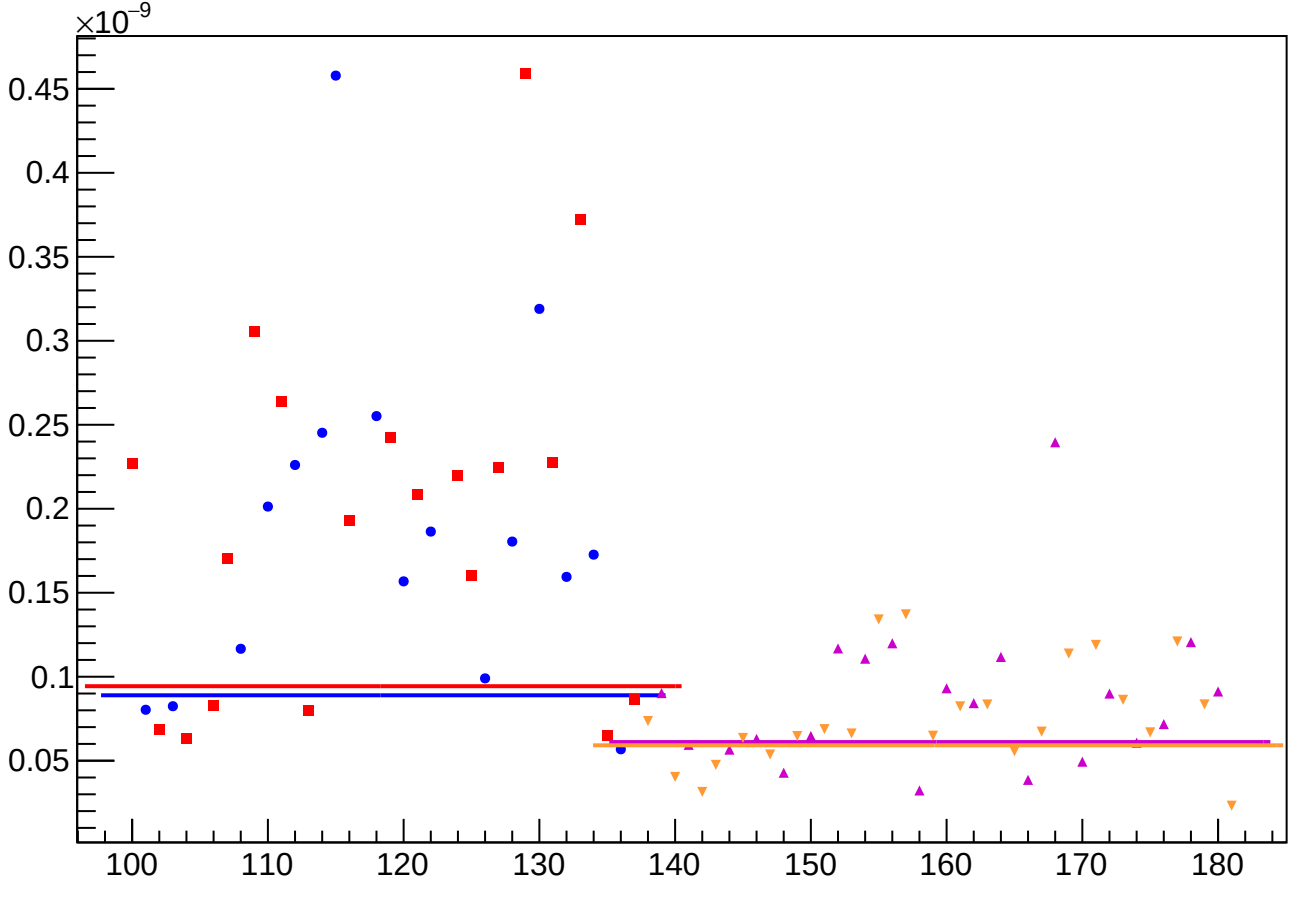
Left: -0.000+/-0.000 $\chi^2$/NDF: 57.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:32.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:58.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 91.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1230222.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1887001.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1695078.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1977349.5/20

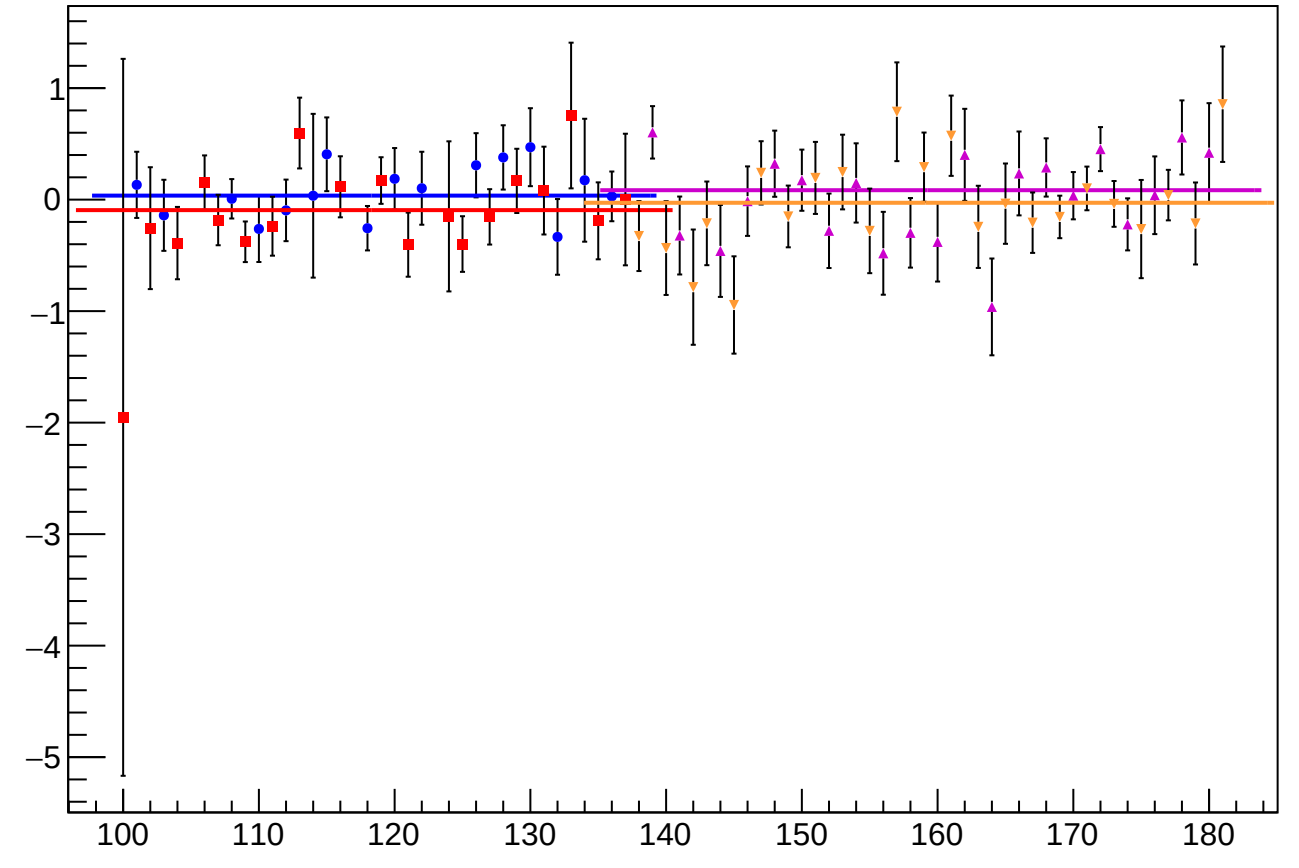
Left: 0.000+/-0.000 $\chi^2$/NDF: 3869895.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 2932262.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3552431.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4052865.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 7613843.1/78




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.028+/-0.064 $\chi^2$/NDF:23.8/22

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.085+/-0.066 $\chi^2$/NDF:30.6/20

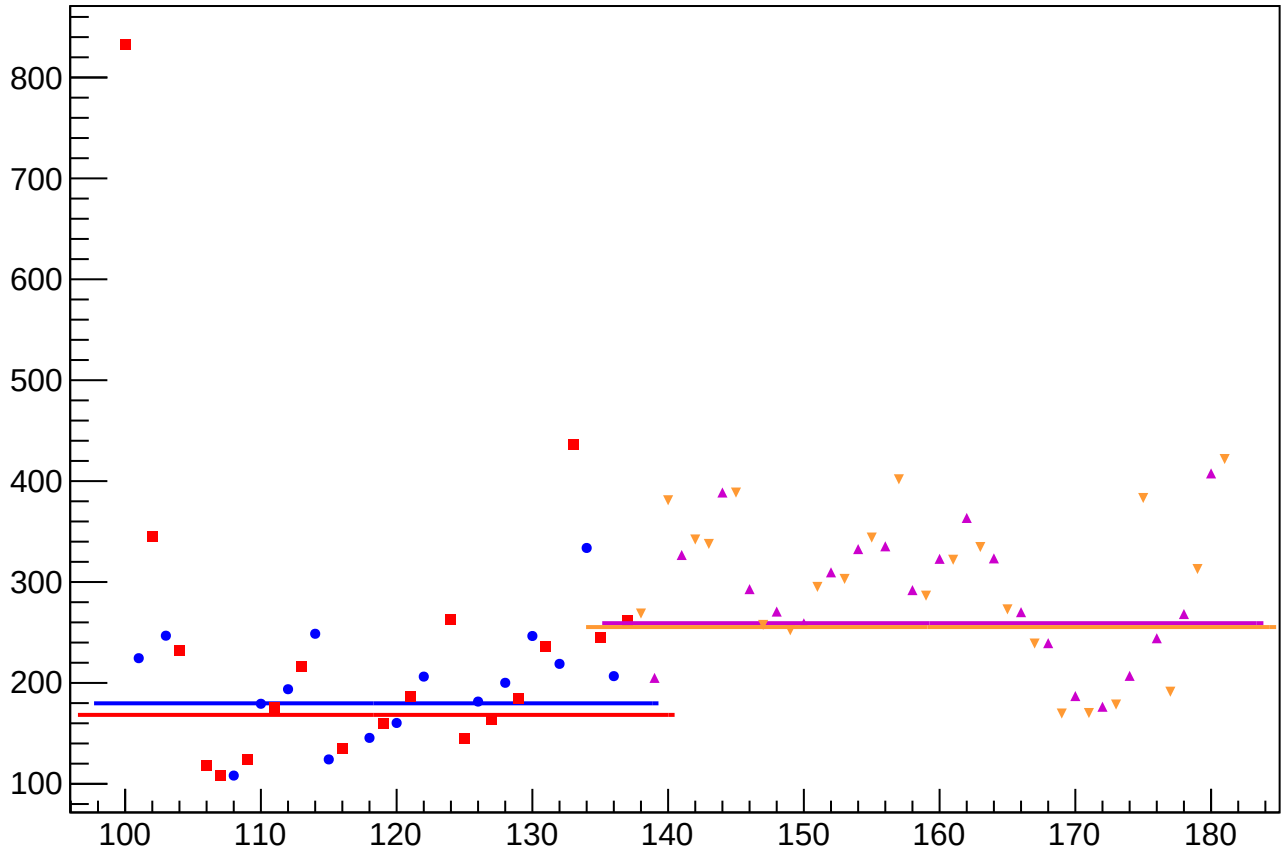
Left: 0.026+/-0.046 $\chi^2$/NDF: 55.9/43

Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.062+/-0.048 $\chi^2$/NDF:41.4/36

Out: -0.059+/-0.046 $\chi^2$/NDF:41.9/41

All: -0.001+/-0.033 $\chi^2$/NDF: 86.6/78




Right In: 179.796+/-0.050 $\chi^2$/NDF: 918536.0/15

Left Out: 255.357+/-0.045 $\chi^2$/NDF:2760948.6/22

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409290.2/18

Left In: 259.218+/-0.047 $\chi^2$/NDF:1802520.2/20

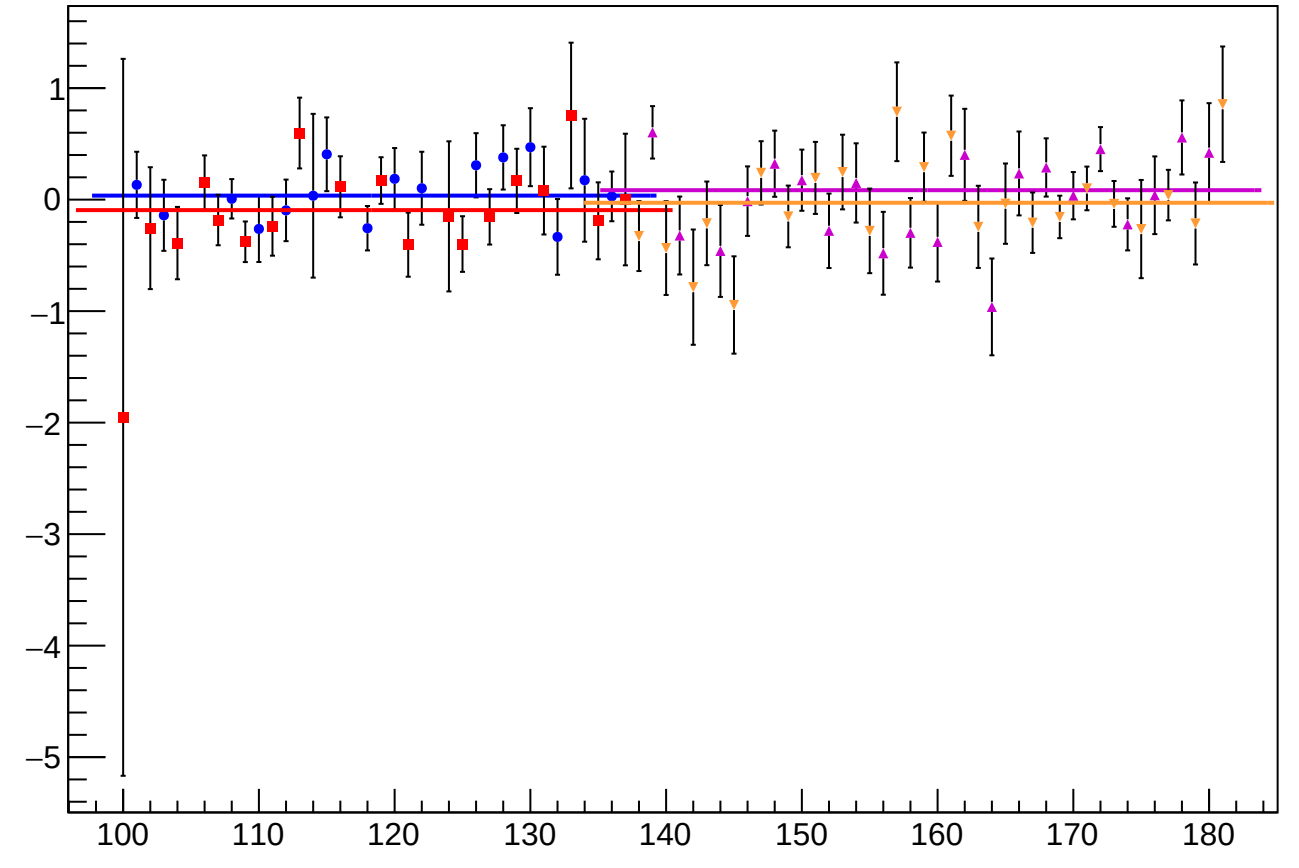
Left: 257.219+/-0.032 $\chi^2$/NDF: 4567032.4/43

Right: 173.821+/-0.035 $\chi^2$/NDF: 2355323.0/34

In: 222.281+/-0.034 $\chi^2$/NDF:4075797.6/36

Out: 214.569+/-0.033 $\chi^2$/NDF:5929405.4/41

All: 218.276+/-0.024 $\chi^2$/NDF: 10031869.5/78




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.028+/-0.064 $\chi^2$/NDF:23.8/22

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.085+/-0.066 $\chi^2$/NDF:30.6/20

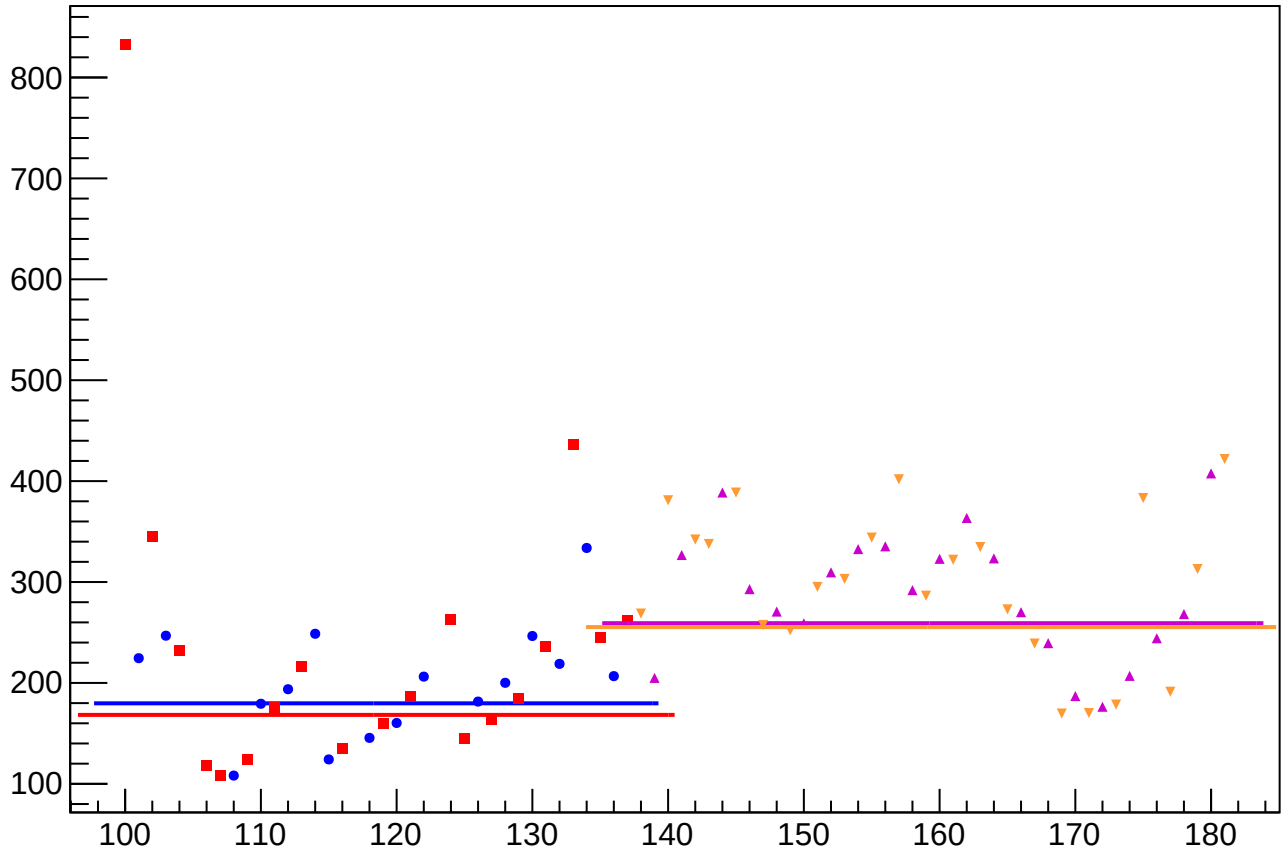
Left: 0.026+/-0.046 $\chi^2$/NDF: 55.9/43

Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.062+/-0.048 $\chi^2$/NDF:41.4/36

Out: -0.059+/-0.046 $\chi^2$/NDF:41.9/41

All: -0.001+/-0.033 $\chi^2$/NDF: 86.6/78




Right In: 179.796+/-0.050 $\chi^2$/NDF: 918536.0/15

Left Out: 255.357+/-0.045 $\chi^2$/NDF:2760948.6/22

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409290.2/18

Left In: 259.218+/-0.047 $\chi^2$/NDF:1802520.2/20

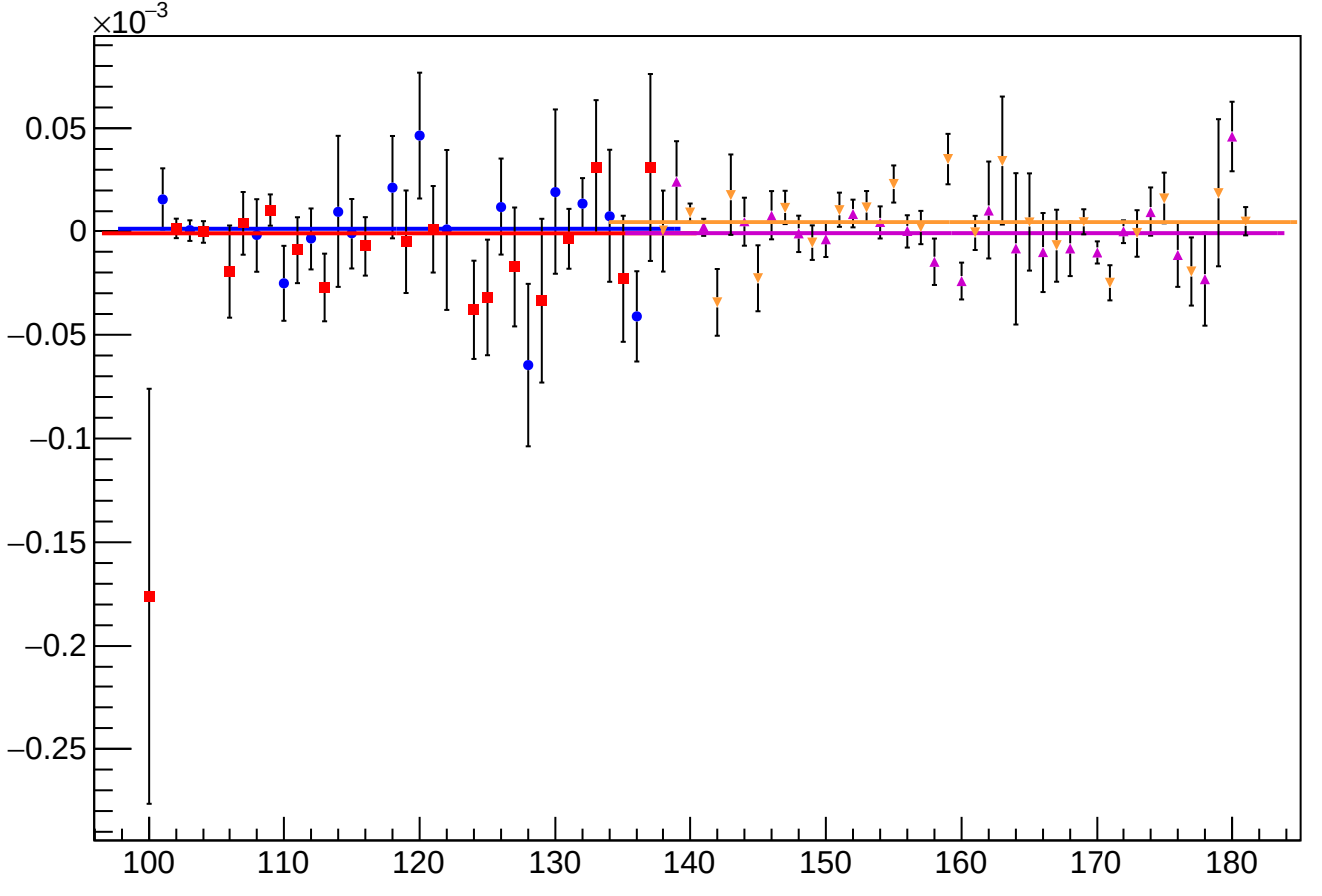
Left: 257.219+/-0.032 $\chi^2$/NDF: 4567032.4/43

Right: 173.821+/-0.035 $\chi^2$/NDF: 2355323.0/34

In: 222.281+/-0.034 $\chi^2$/NDF:4075797.6/36

Out: 214.569+/-0.033 $\chi^2$/NDF:5929405.4/41

All: 218.276+/-0.024 $\chi^2$/NDF: 10031869.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:42.1/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.8/20

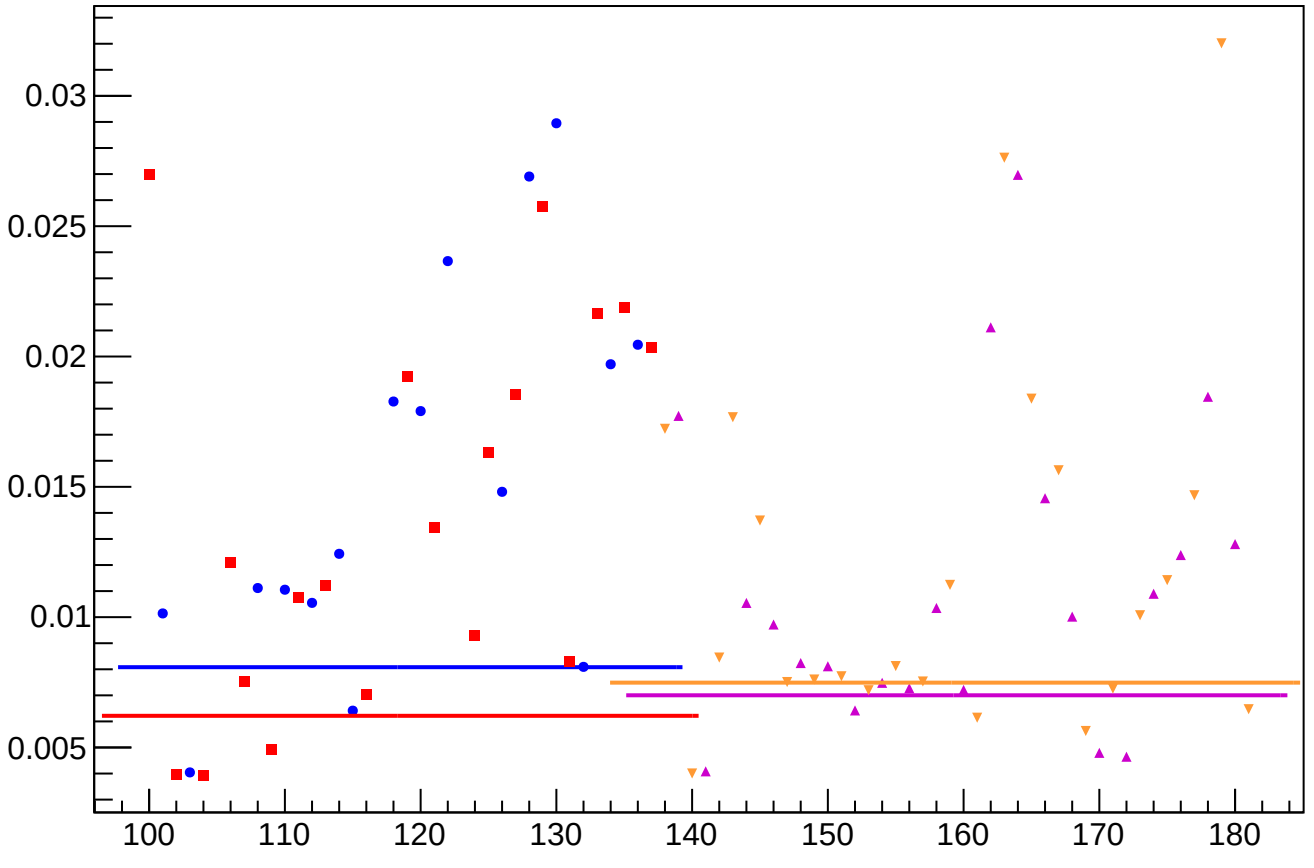
Left: 0.000+/-0.000 $\chi^2$/NDF: 74.2/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:42.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:61.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 105.4/78




Right In: 0.008+/-0.000 $\chi^2$/NDF: 4413462.8/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:6408456.8/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 4560988.3/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:5688344.0/20

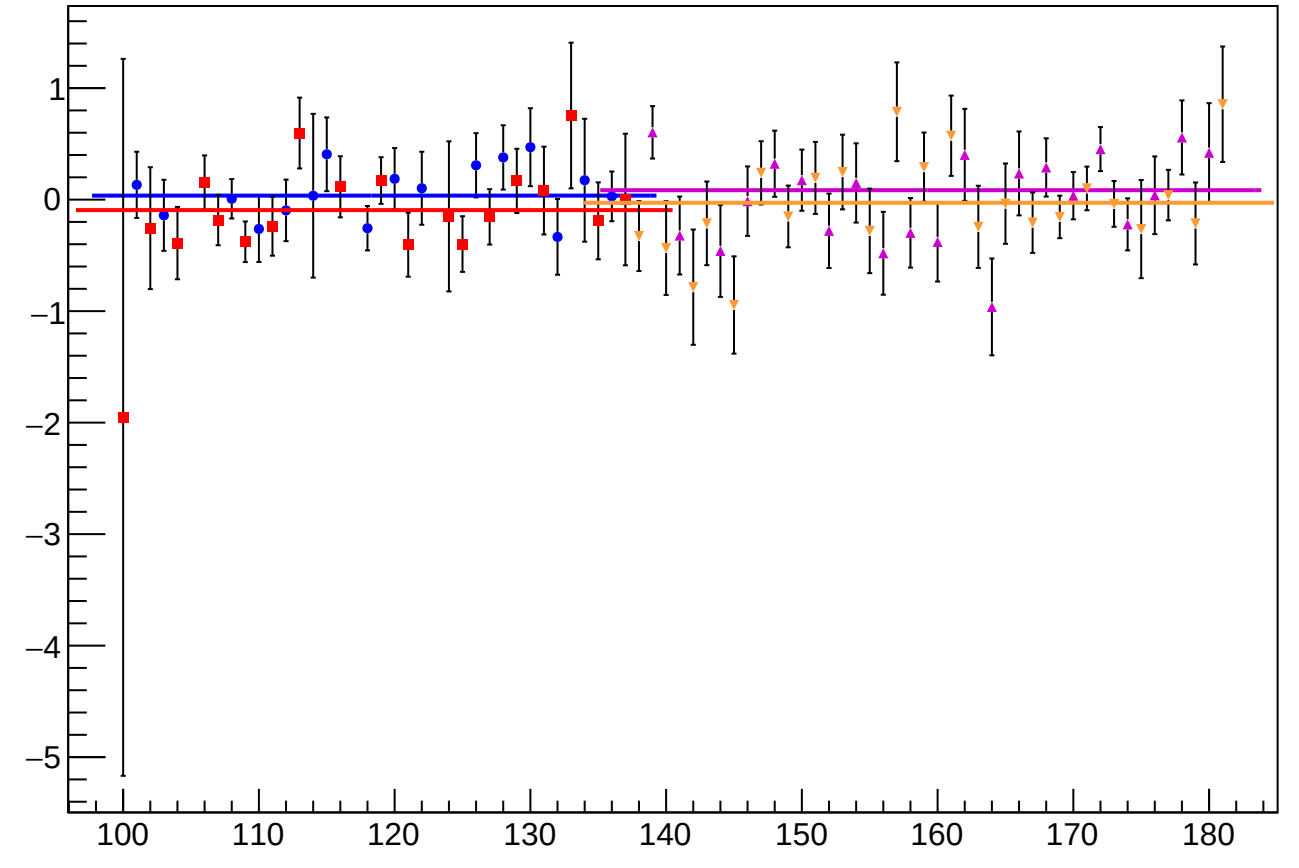
Left: 0.007+/-0.000 $\chi^2$/NDF: 12157803.1/43

Right: 0.007+/-0.000 $\chi^2$/NDF: 9295058.4/34

In: 0.007+/-0.000 $\chi^2$/NDF:10233877.9/36

Out: 0.007+/-0.000 $\chi^2$/NDF:11243283.9/41

All: 0.007+/-0.000 $\chi^2$/NDF: 21487284.0/78




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.028+/-0.064 $\chi^2$/NDF:23.8/22

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.085+/-0.066 $\chi^2$/NDF:30.6/20

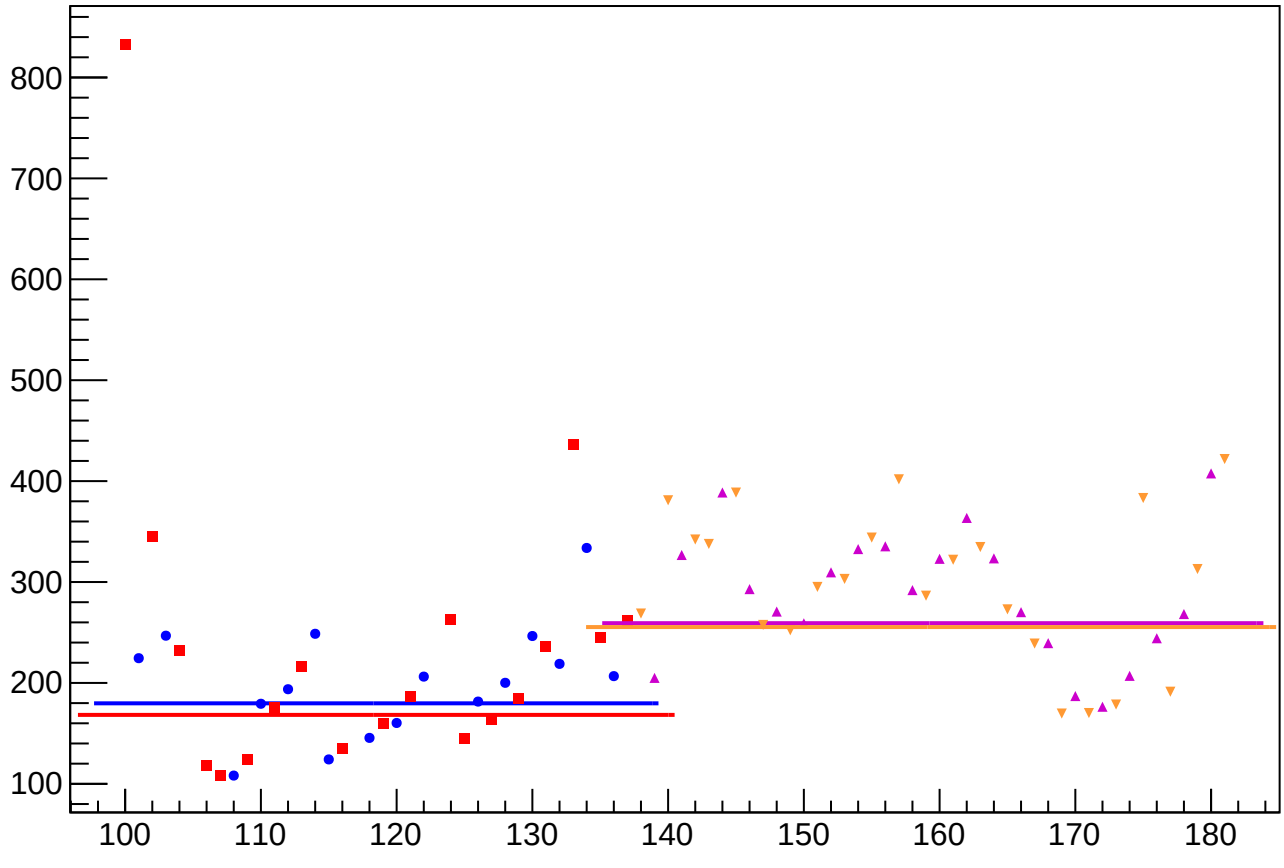
Left: 0.026+/-0.046 $\chi^2$/NDF: 55.9/43

Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.062+/-0.048 $\chi^2$/NDF:41.4/36

Out: -0.059+/-0.046 $\chi^2$/NDF:41.9/41

All: -0.001+/-0.033 $\chi^2$/NDF: 86.6/78




Right In: 179.793+/-0.050 $\chi^2$/NDF: 918583.7/15

Left Out: 255.358+/-0.045 $\chi^2$/NDF:2761065.9/22

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409289.2/18

Left In: 259.220+/-0.047 $\chi^2$/NDF:1802566.8/20

Left: 257.221+/-0.032 $\chi^2$/NDF: 4567197.7/43

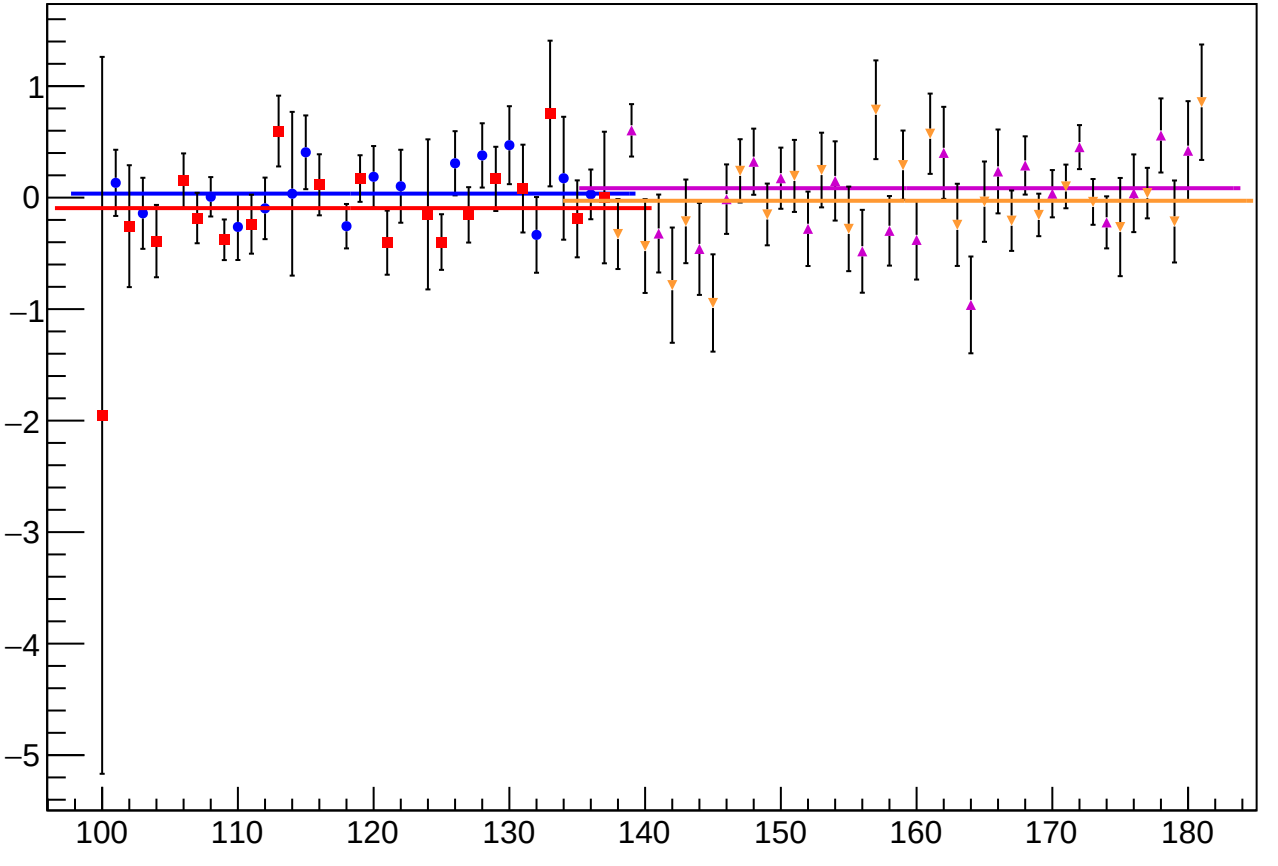
Right: 173.819+/-0.035 $\chi^2$/NDF: 2355358.4/34

In: 222.281+/-0.034 $\chi^2$/NDF:4076065.7/36

Out: 214.570+/-0.033 $\chi^2$/NDF:5929583.6/41

All: 218.276+/-0.024 $\chi^2$/NDF: 10032307.2/78

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.028+/-0.064 $\chi^2$/NDF:23.8/22

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.085+/-0.066 $\chi^2$/NDF:30.6/20

Left: 0.026+/-0.046 $\chi^2$/NDF: 55.9/43

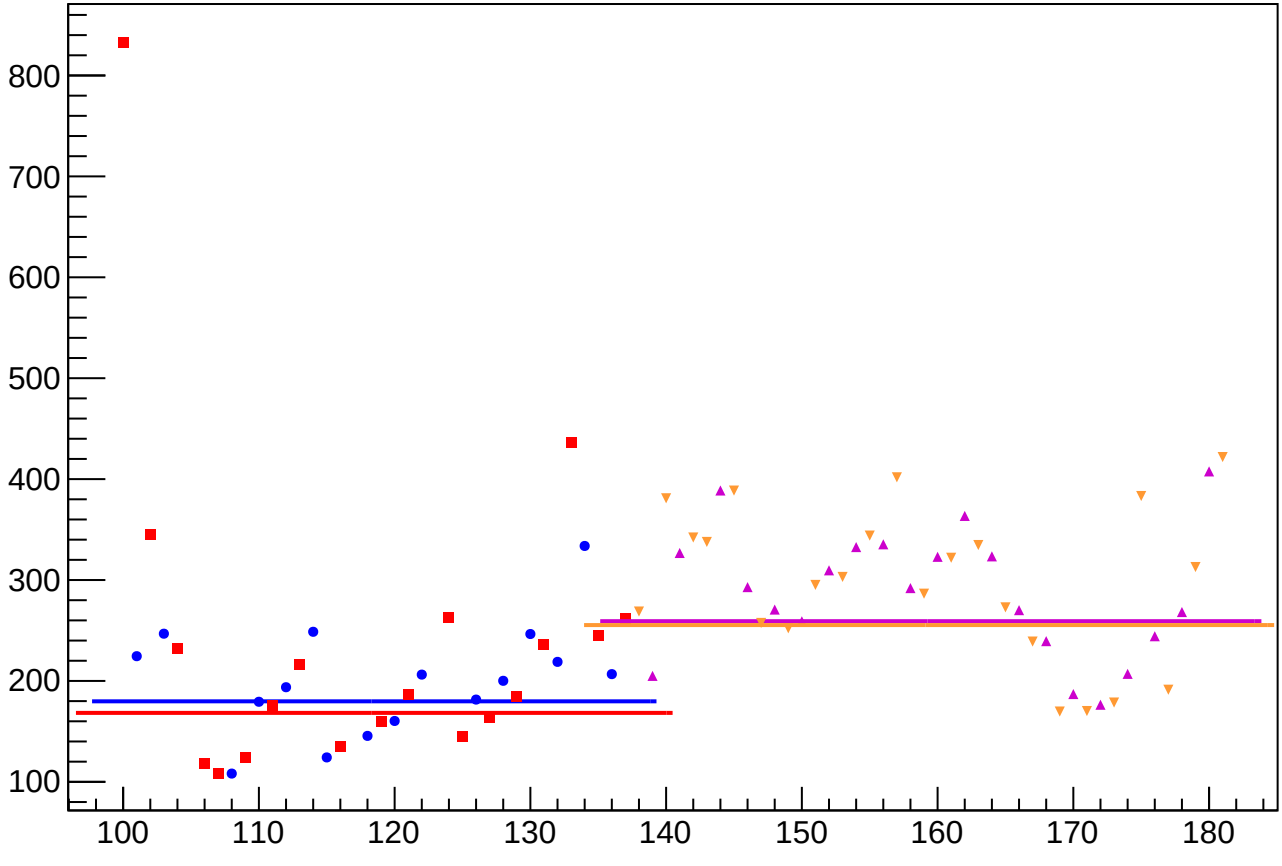
Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.062+/-0.048 $\chi^2$/NDF:41.4/36

Out: -0.059+/-0.046 $\chi^2$/NDF:41.9/41

All: -0.001+/-0.033 $\chi^2$/NDF: 86.6/78

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 179.793+/-0.050 $\chi^2$/NDF: 918583.7/15

Left Out: 255.358+/-0.045 $\chi^2$/NDF:2761065.9/22

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409289.2/18

Left In: 259.220+/-0.047 $\chi^2$/NDF:1802566.8/20

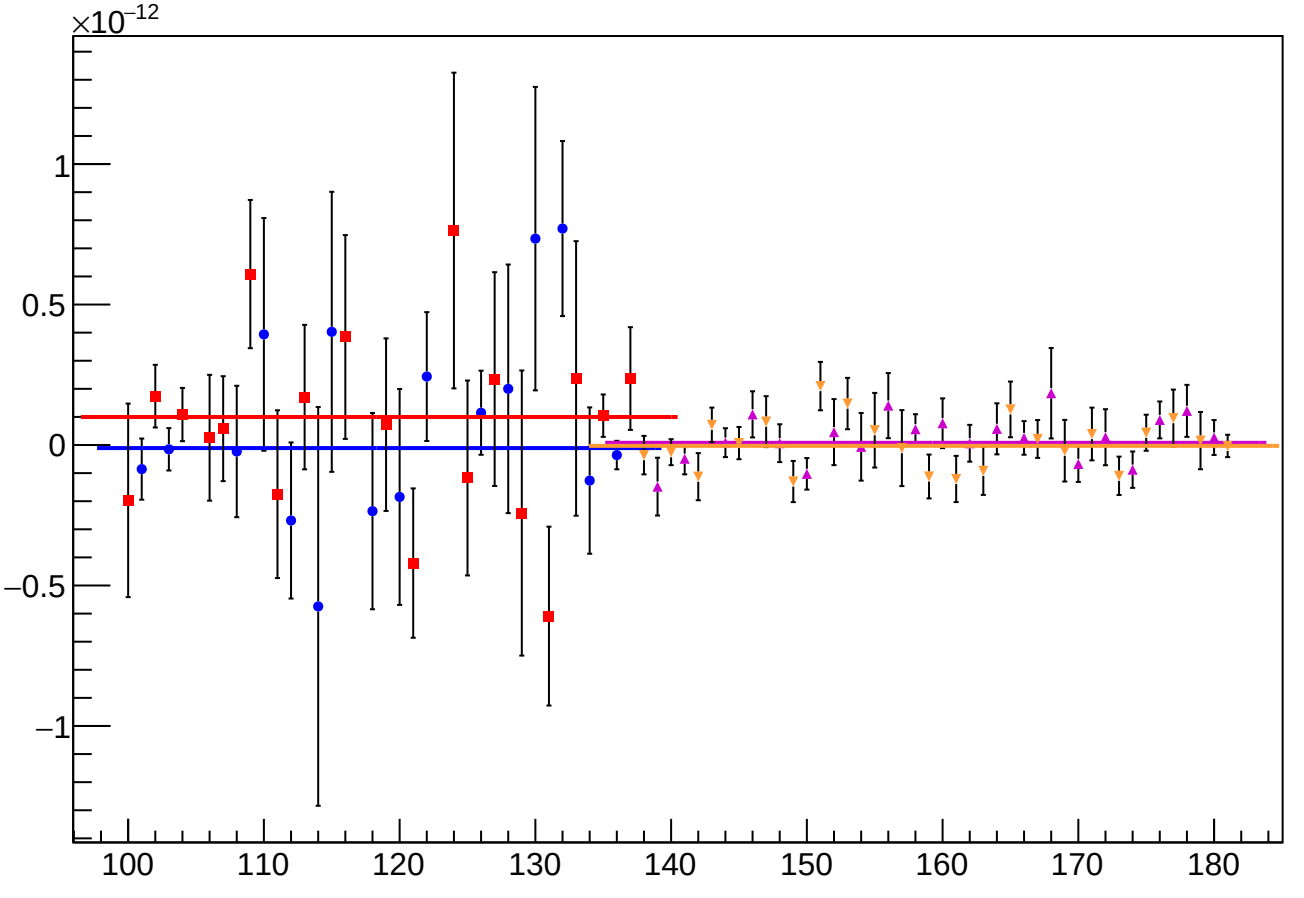
Left: 257.221+/-0.032 $\chi^2$/NDF: 4567197.7/43

Right: 173.819+/-0.035 $\chi^2$/NDF: 2355358.4/34

In: 222.281+/-0.034 $\chi^2$/NDF:4076065.7/36

Out: 214.570+/-0.033 $\chi^2$/NDF:5929583.6/41

All: 218.276+/-0.024 $\chi^2$/NDF: 10032307.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:27.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.9/20

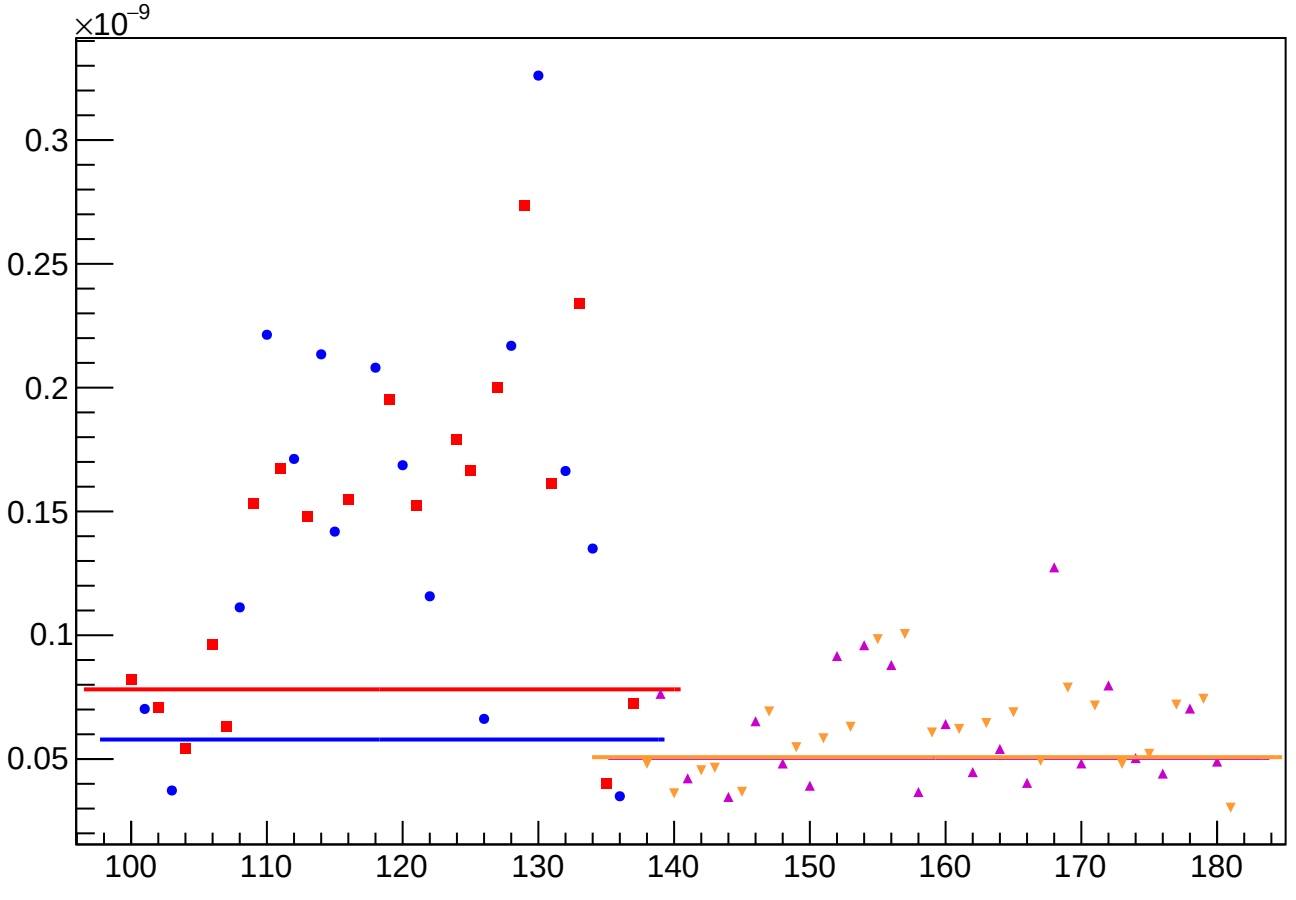
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:35.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:51.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 86.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3322992.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2152207.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2732134.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2246082.0/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4398703.6/43

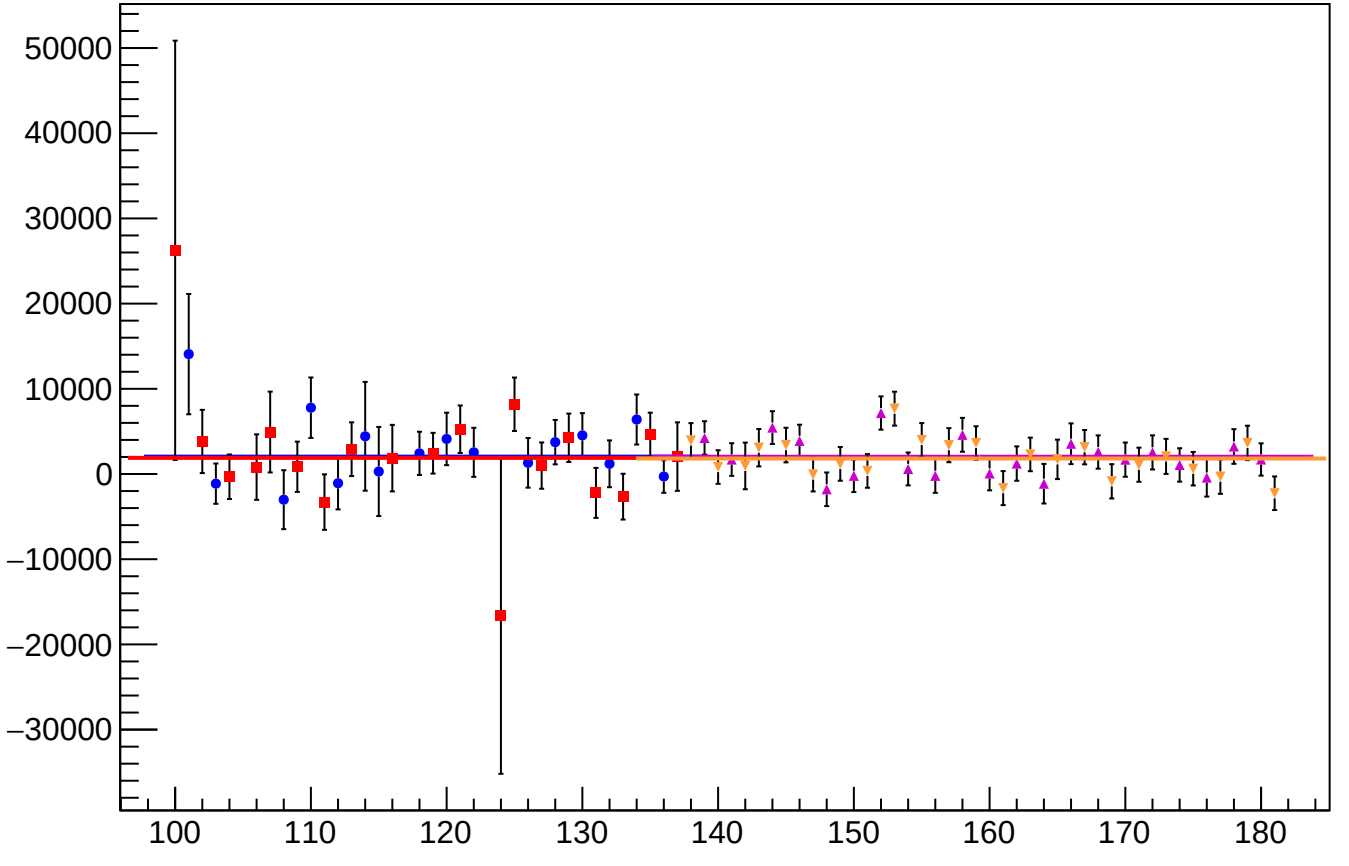
Right: 0.000+/-0.000 $\chi^2$/NDF: 6327236.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:5643414.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5632299.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11300186.4/78

# reg_asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2039.211+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 1819.936+/-424.820 $\chi^2$/NDF:27.2/22

Right Out: 1895.242+/-736.762 $\chi^2$/NDF: 18.5/18

Left In: 2027.483+/-436.546 $\chi^2$/NDF:26.3/20

Left: 1920.885+/-304.454 $\chi^2$/NDF: 53.7/43

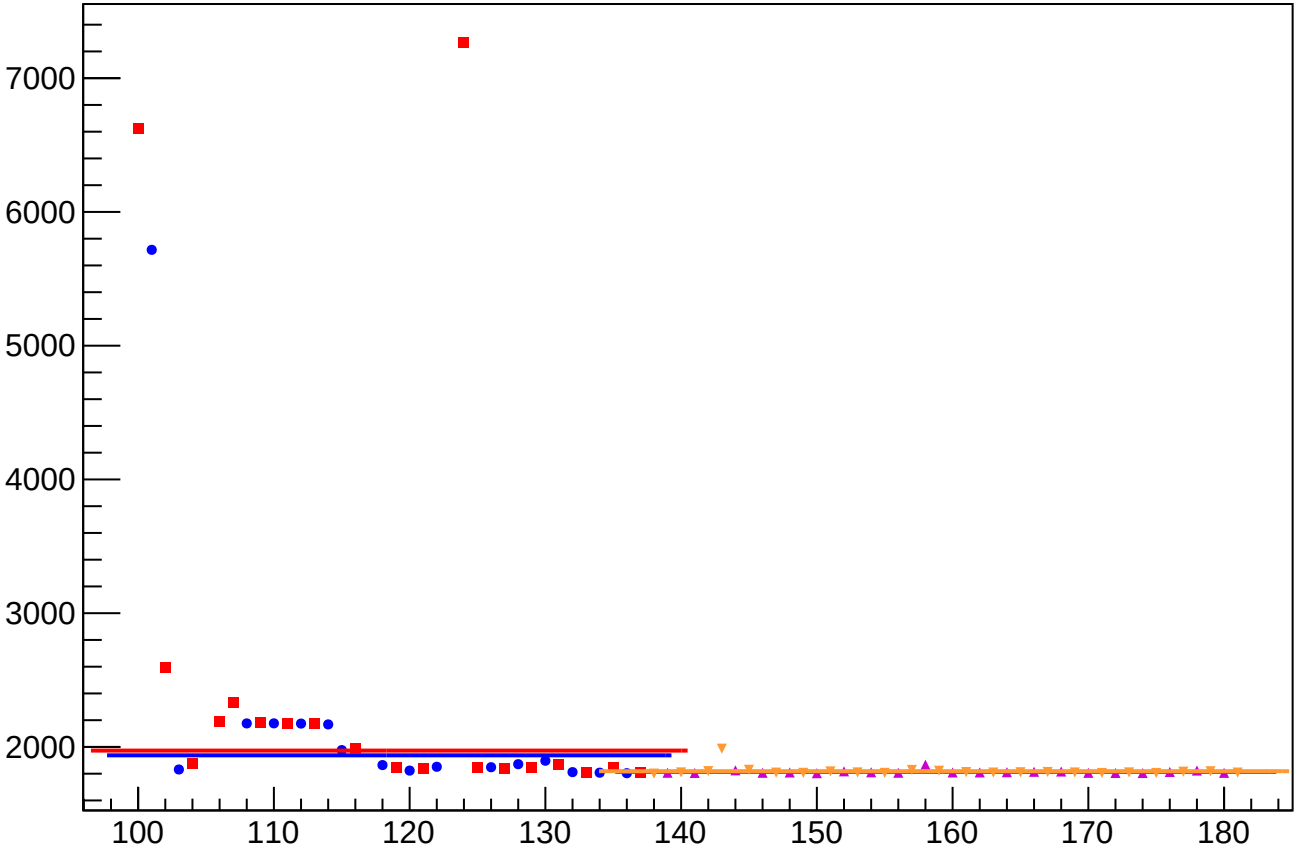
Right: 1967.281+/-520.774 $\chi^2$/NDF: 35.0/34

In: 2030.534+/-375.496 $\chi^2$/NDF:42.8/36

Out: 1838.726+/-368.024 $\chi^2$/NDF:45.7/41

All: 1932.703+/-262.834 $\chi^2$/NDF: 88.6/78

# reg_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1818.623+/-0.300 $\chi^2$/NDF:12713.2/22

Right Out: 1972.760+/-0.521 $\chi^2$/NDF: 377537.1/18

Left In: 1813.349+/-0.309 $\chi^2$/NDF:1900.3/20

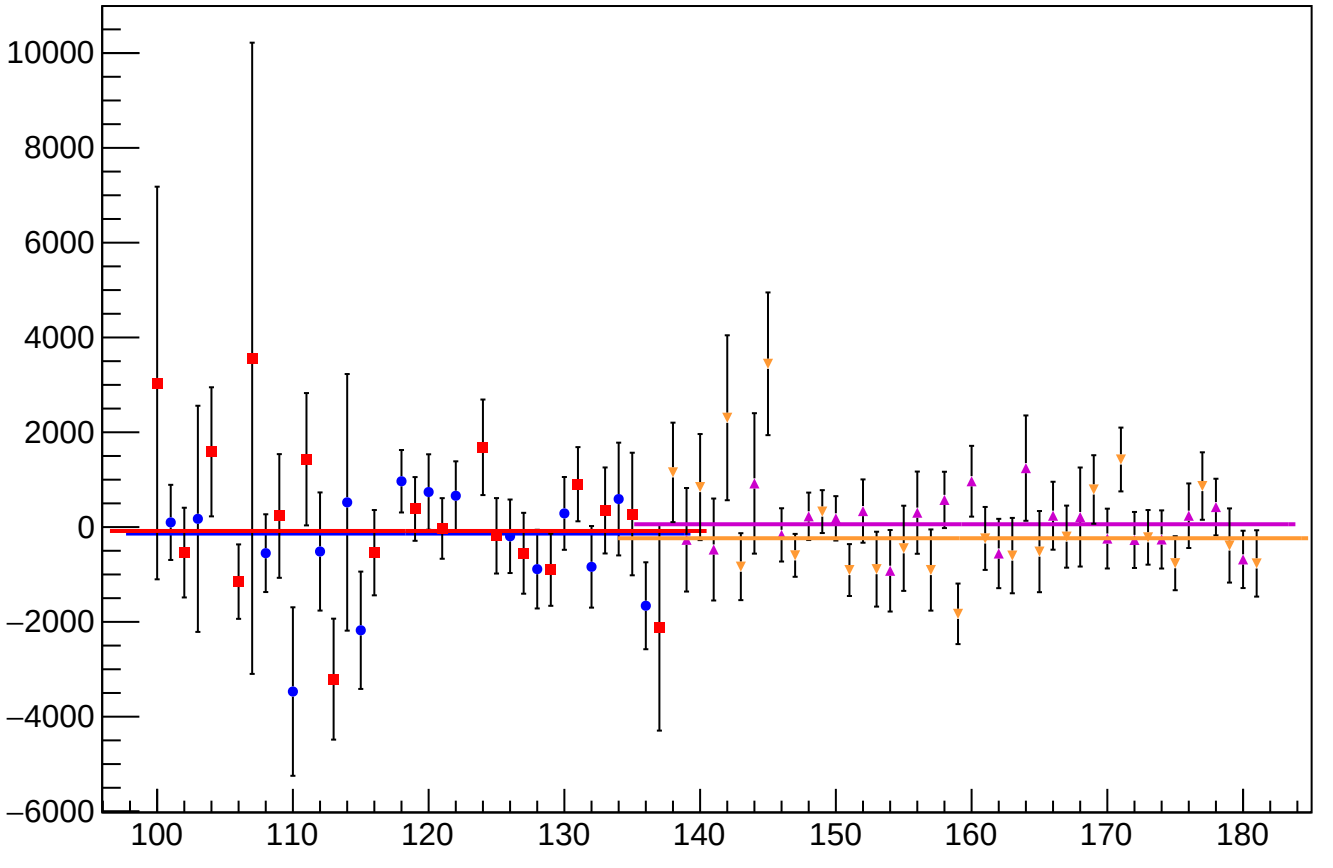
Left: 1816.058+/-0.215 $\chi^2$/NDF: 14763.4/43

Right: 1954.992+/-0.368 $\chi^2$/NDF: 1017954.2/34

In: 1845.581+/-0.266 $\chi^2$/NDF:681904.3/36

Out: 1857.082+/-0.260 $\chi^2$/NDF:455945.8/41

All: 1851.447+/-0.186 $\chi^2$/NDF: 1138807.2/78




Right In: -136.643+/-230.431 $\chi^2$/NDF: 16.9/15

Left Out: -235.379+/-144.857 $\chi^2$/NDF:35.1/22

Right Out: -82.296+/-222.019 $\chi^2$/NDF: 19.7/18

Left In: 59.623+/-149.568 $\chi^2$/NDF:9.5/20

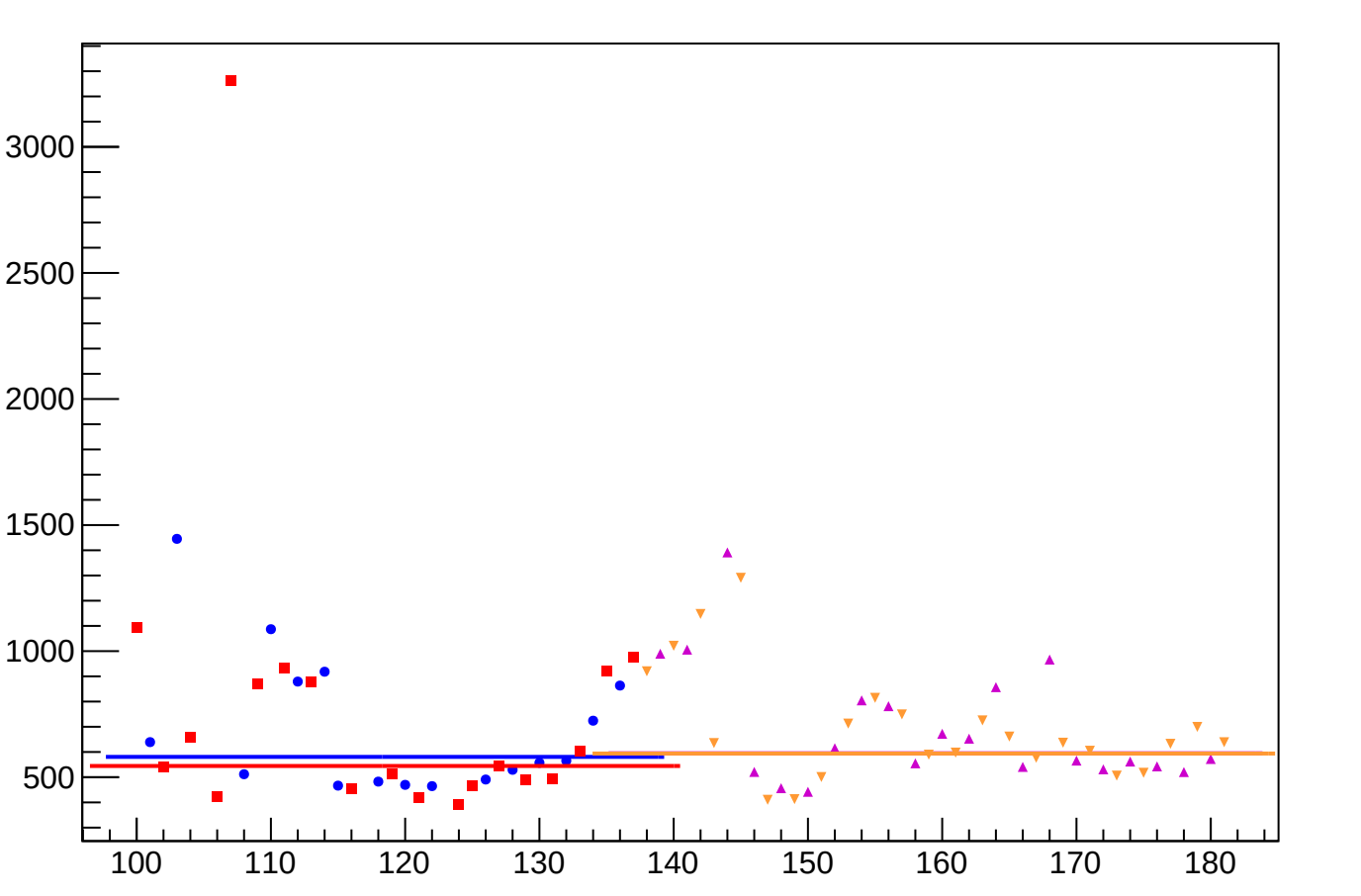
Left: -92.597+/-104.055 $\chi^2$/NDF: 46.6/43

Right: -108.459+/-159.882 $\chi^2$/NDF: 36.7/34

In: 1.445+/-125.457 $\chi^2$/NDF:26.9/36

Out: -189.670+/-121.318 $\chi^2$/NDF:55.2/41

All: -97.317+/-87.211 $\chi^2$/NDF: 83.3/78




Right In: 580.611+/-0.163 $\chi^2$/NDF: 1003410.8/15

Left Out: 593.893+/-0.102 $\chi^2$/NDF:2270321.5/22

Right Out: 544.530+/-0.157 $\chi^2$/NDF: 1287643.0/18

Left In: 594.909+/-0.106 $\chi^2$/NDF:2243790.0/20

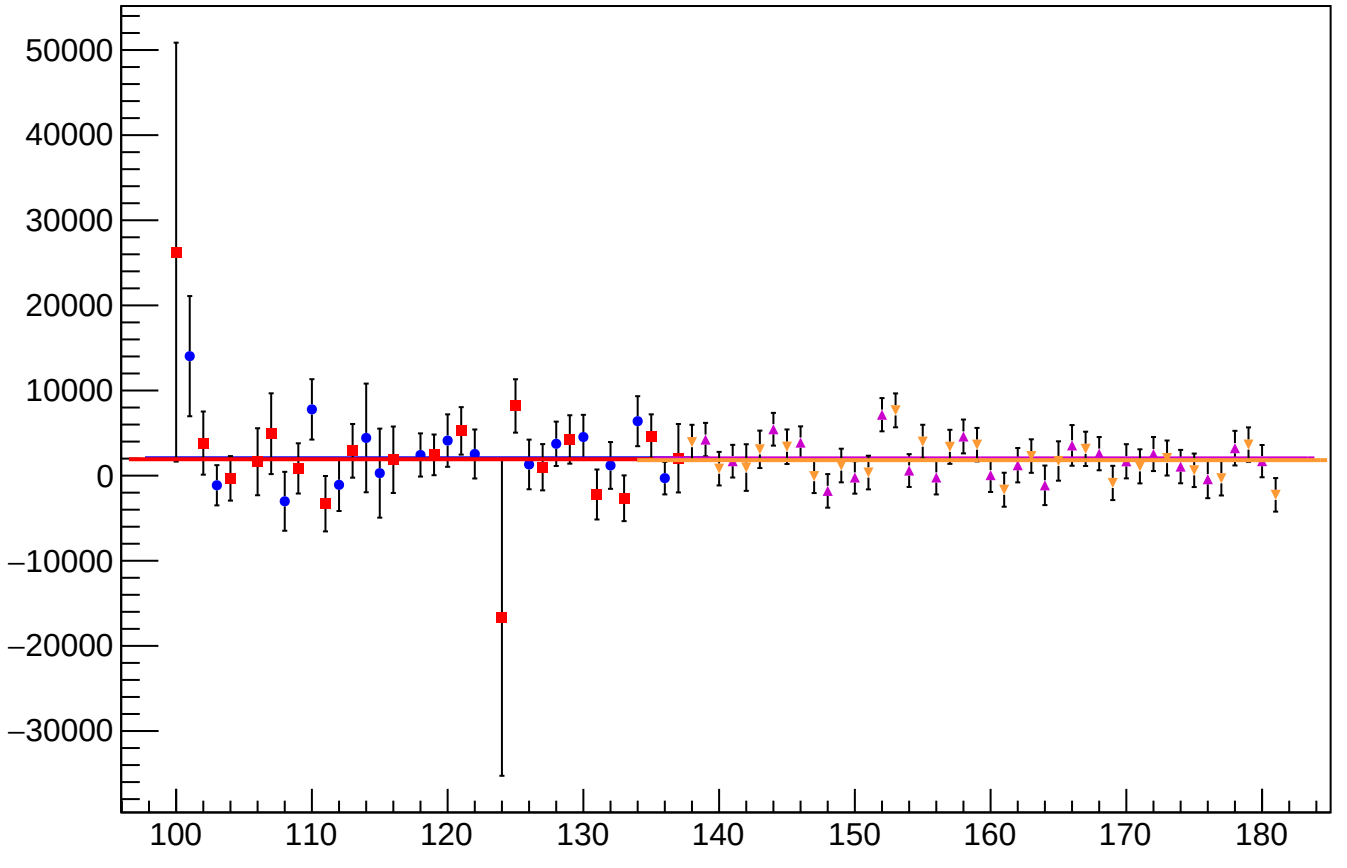
Left: 594.385+/-0.074 $\chi^2$/NDF: 4514159.1/43

Right: 561.900+/-0.113 $\chi^2$/NDF: 2316481.8/34

In: 590.671+/-0.089 $\chi^2$/NDF:3252618.6/36

Out: 579.154+/-0.086 $\chi^2$/NDF:3627310.6/41

All: 584.719+/-0.062 $\chi^2$/NDF: 6888638.9/78




Right In: 2038.842+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 1819.914+/-424.820 $\chi^2$/NDF:27.2/22

Right Out: 1926.264+/-737.411 $\chi^2$/NDF: 18.4/18

Left In: 2027.582+/-436.546 $\chi^2$/NDF:26.3/20

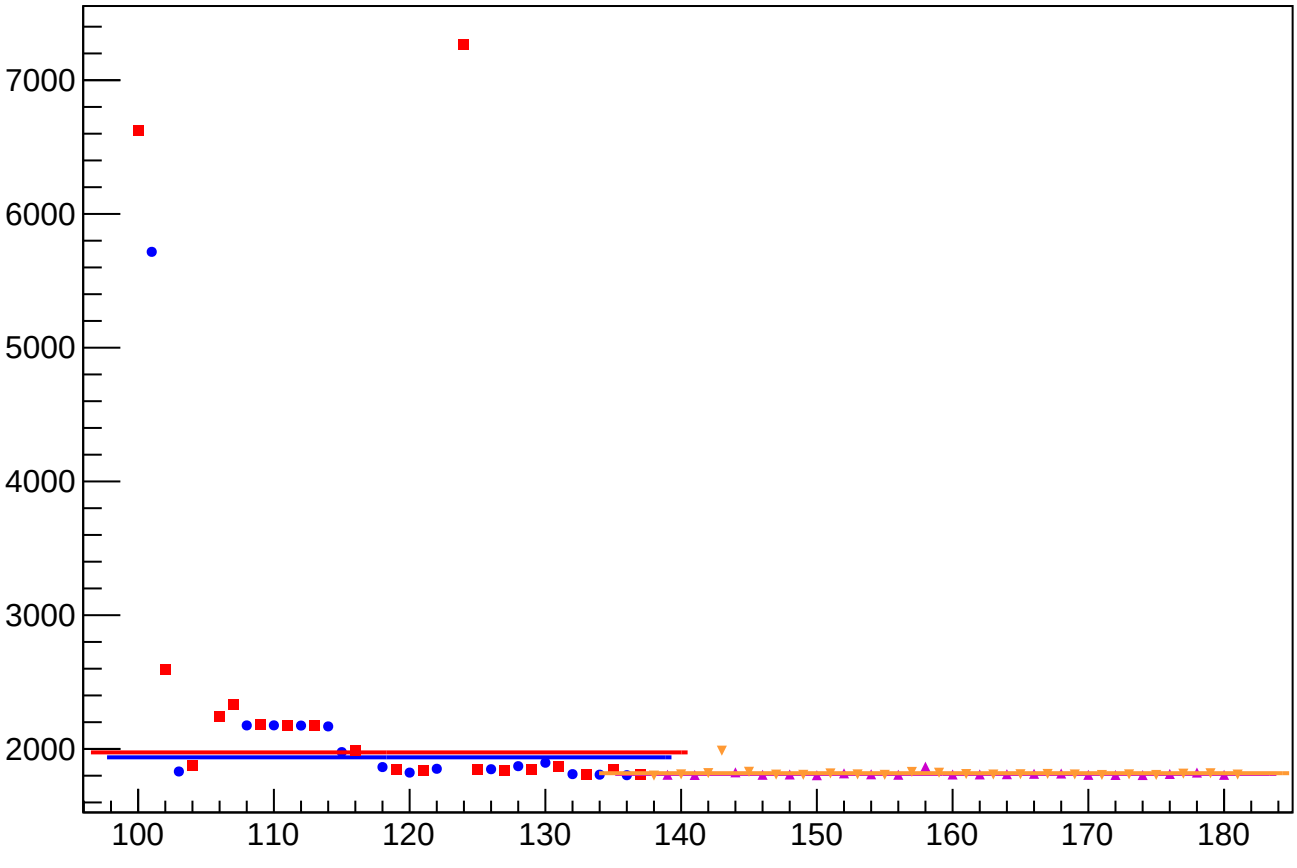
Left: 1920.921+/-304.454 $\chi^2$/NDF: 53.7/43

Right: 1982.645+/-521.003 $\chi^2$/NDF: 34.9/34

In: 2030.511+/-375.496 $\chi^2$/NDF:42.8/36

Out: 1846.415+/-368.104 $\chi^2$/NDF:45.7/41

All: 1936.633+/-262.863 $\chi^2$/NDF: 88.6/78




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1818.623+/-0.300 $\chi^2$/NDF:12713.2/22

Right Out: 1974.155+/-0.521 $\chi^2$/NDF: 380430.7/18

Left In: 1813.349+/-0.309 $\chi^2$/NDF:1900.3/20

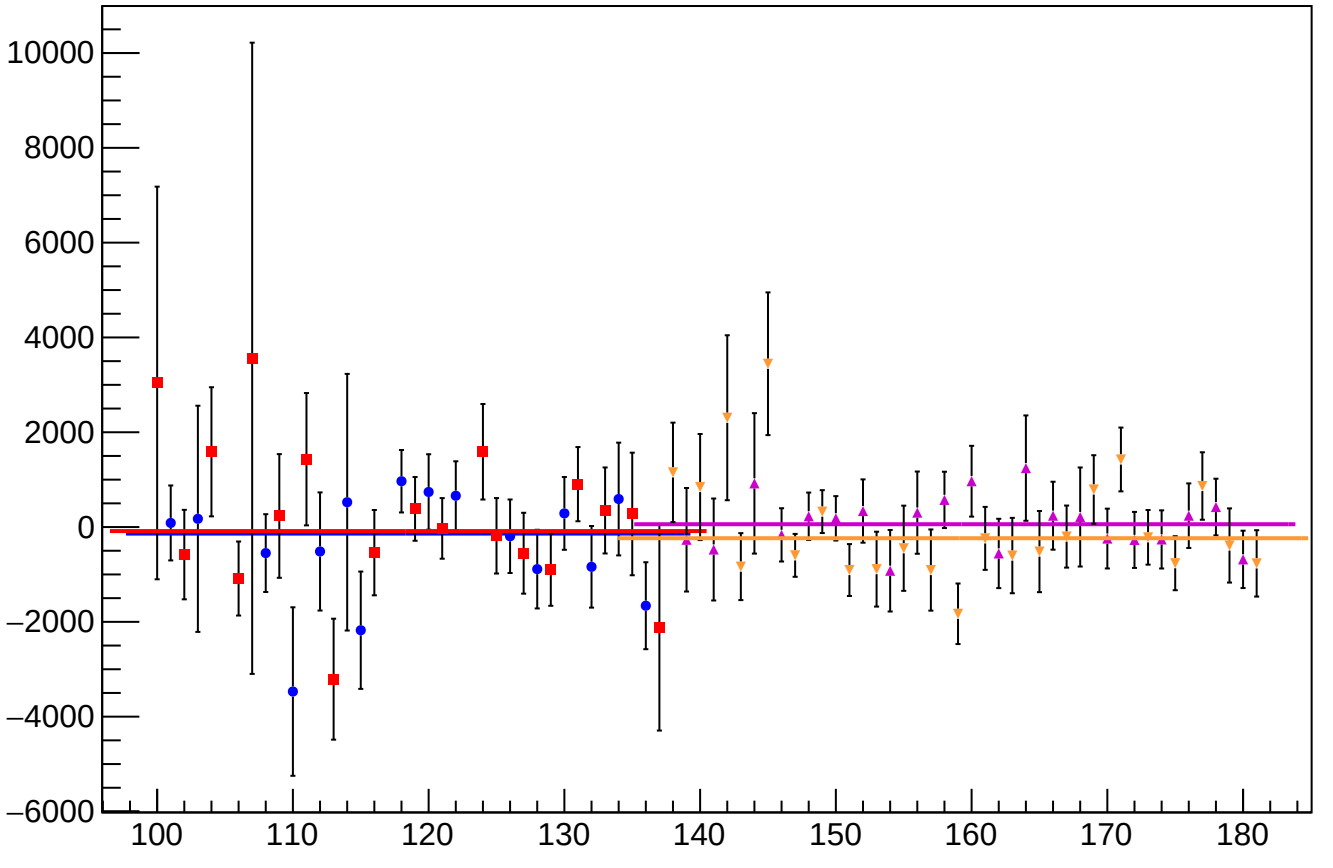
Left: 1816.058+/-0.215 $\chi^2$/NDF: 14763.4/43

Right: 1955.673+/-0.368 $\chi^2$/NDF: 1021031.8/34

In: 1845.581+/-0.266 $\chi^2$/NDF:681904.2/36

Out: 1857.379+/-0.260 $\chi^2$/NDF:459945.3/41

All: 1851.597+/-0.186 $\chi^2$/NDF: 1142856.4/78




Right In: -137.491+/-230.382 $\chi^2$/NDF: 16.9/15

Left Out: -235.428+/-144.857 $\chi^2$/NDF:35.1/22

Right Out: -84.947+/-221.881 $\chi^2$/NDF: 19.3/18

Left In: 59.674+/-149.569 $\chi^2$/NDF:9.5/20

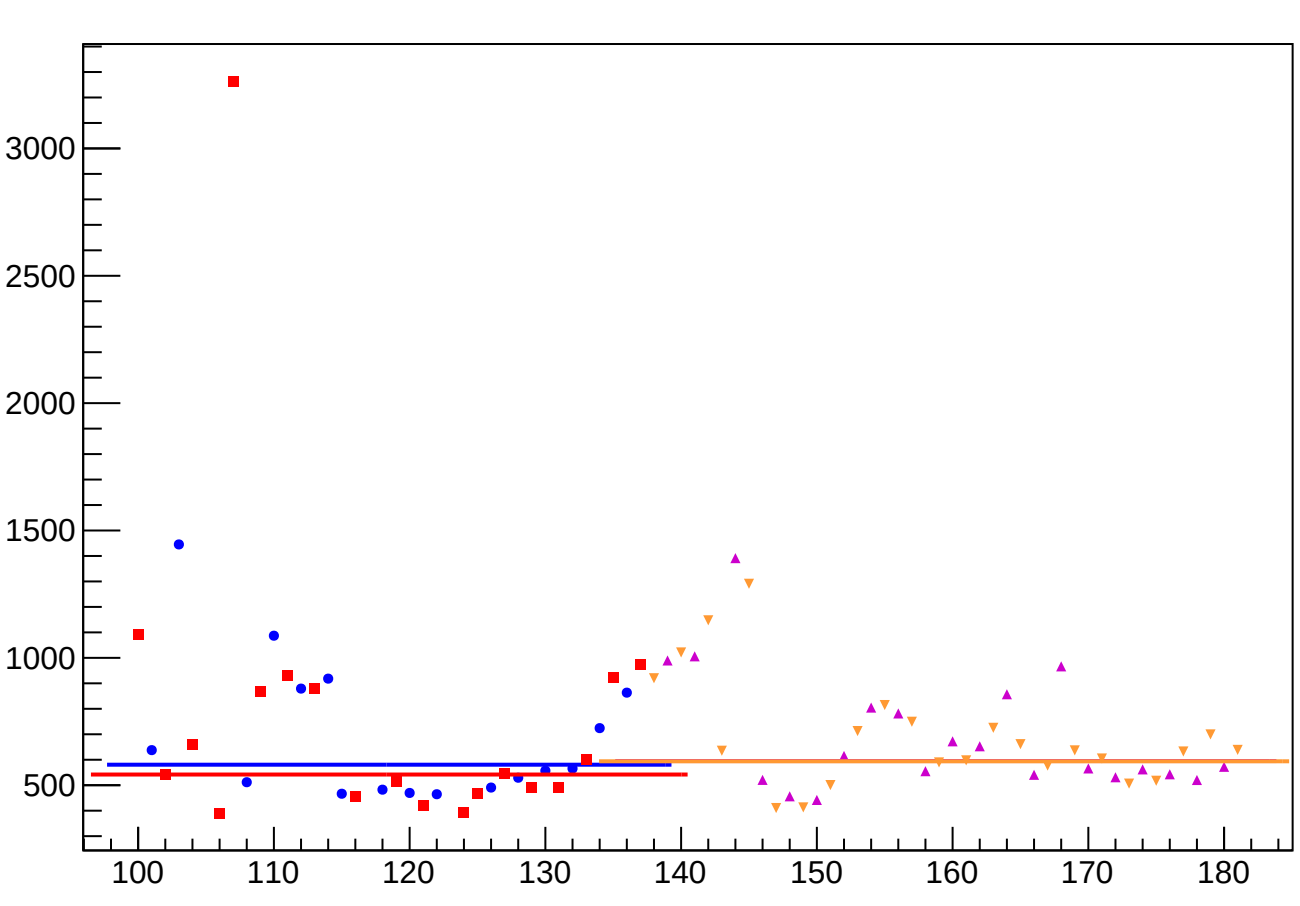
Left: -92.599+/-104.055 $\chi^2$/NDF: 46.6/43

Right: -110.232+/-159.814 $\chi^2$/NDF: 36.2/34

In: 1.212+/-125.450 $\chi^2$/NDF:26.9/36

Out: -190.457+/-121.296 $\chi^2$/NDF:54.7/41

All: -97.849+/-87.201 $\chi^2$/NDF: 82.8/78




Right In: 580.519+/-0.163 $\chi^2$/NDF: 1002900.5/15

Left Out: 593.892+/-0.102 $\chi^2$/NDF:2270456.3/22

Right Out: 541.939+/-0.157 $\chi^2$/NDF: 1318850.5/18

Left In: 594.916+/-0.106 $\chi^2$/NDF:2243811.5/20

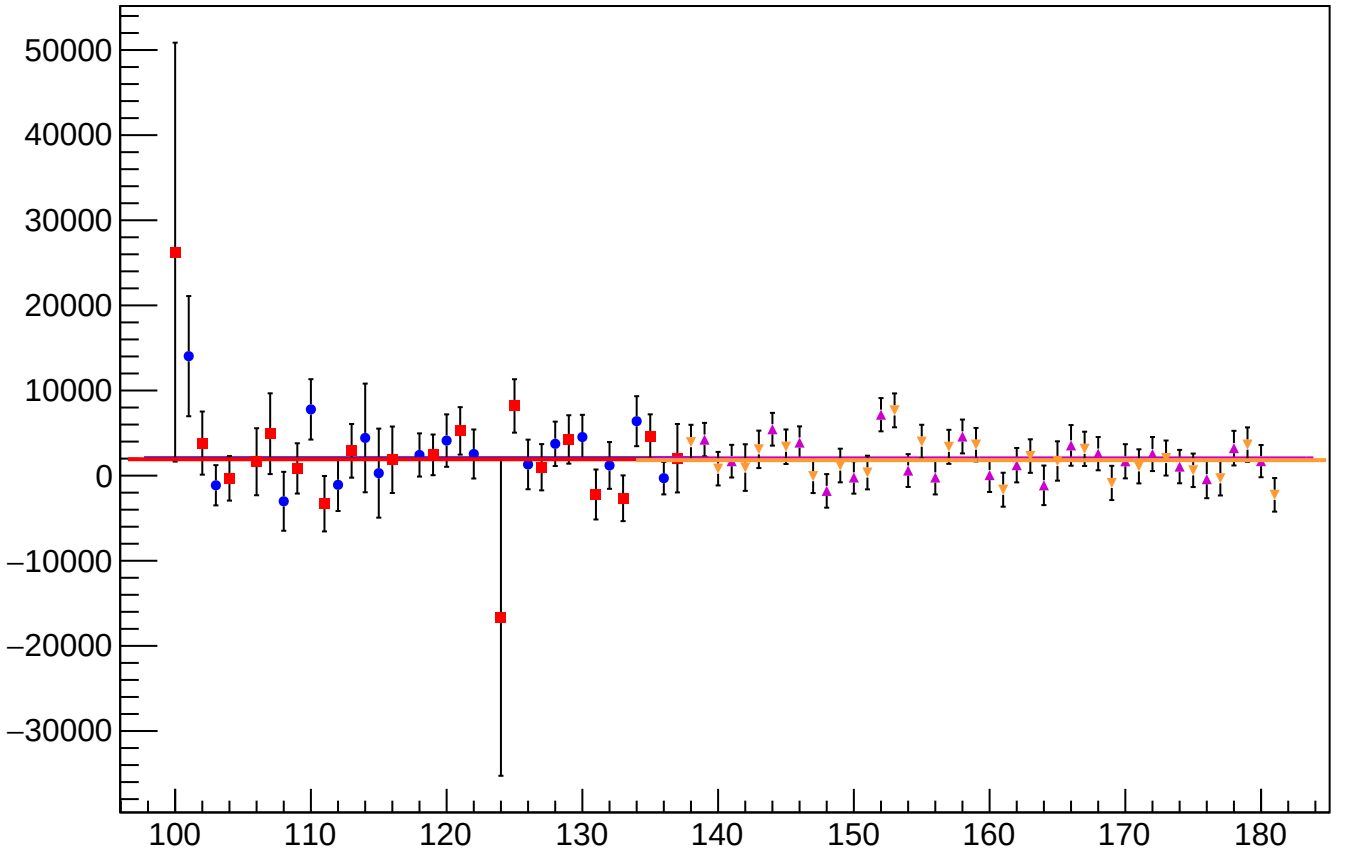
Left: 594.387+/-0.074 $\chi^2$/NDF: 4514316.2/43

Right: 560.504+/-0.113 $\chi^2$/NDF: 2350848.1/34

In: 590.647+/-0.089 $\chi^2$/NDF:3252206.5/36

Out: 578.366+/-0.086 $\chi^2$/NDF:3666188.3/41

All: 584.299+/-0.062 $\chi^2$/NDF: 6928301.2/78




Right In: 2038.842+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 1819.914+/-424.820 $\chi^2$/NDF:27.2/22

Right Out: 1926.264+/-737.411 $\chi^2$/NDF: 18.4/18

Left In: 2027.582+/-436.546 $\chi^2$/NDF:26.3/20

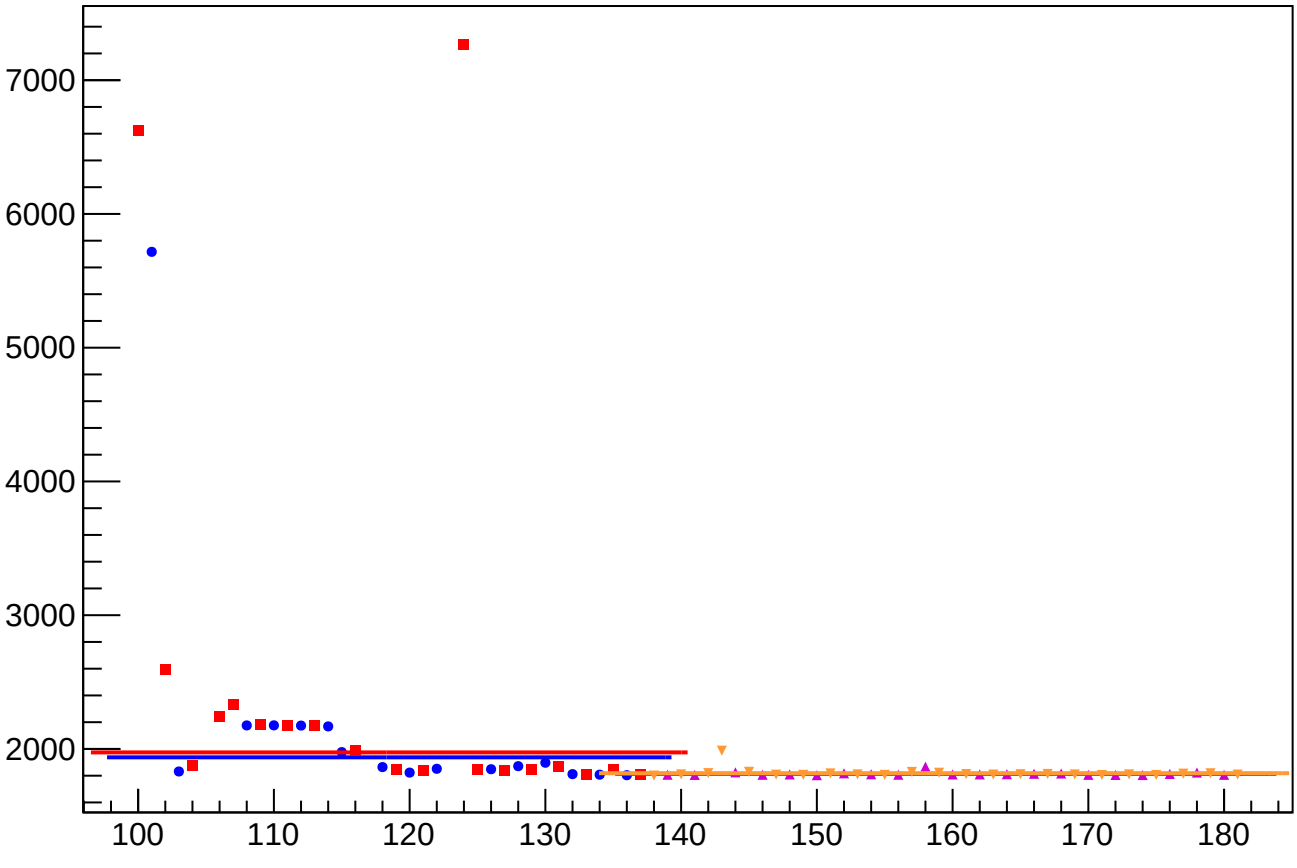
Left: 1920.921+/-304.454 $\chi^2$/NDF: 53.7/43

Right: 1982.645+/-521.003 $\chi^2$/NDF: 34.9/34

In: 2030.511+/-375.496 $\chi^2$/NDF:42.8/36

Out: 1846.415+/-368.104 $\chi^2$/NDF:45.7/41

All: 1936.633+/-262.863 $\chi^2$/NDF: 88.6/78




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1818.623+/-0.300 $\chi^2$/NDF:12713.2/22

Right Out: 1974.155+/-0.521 $\chi^2$/NDF: 380430.7/18

Left In: 1813.349+/-0.309 $\chi^2$/NDF:1900.3/20

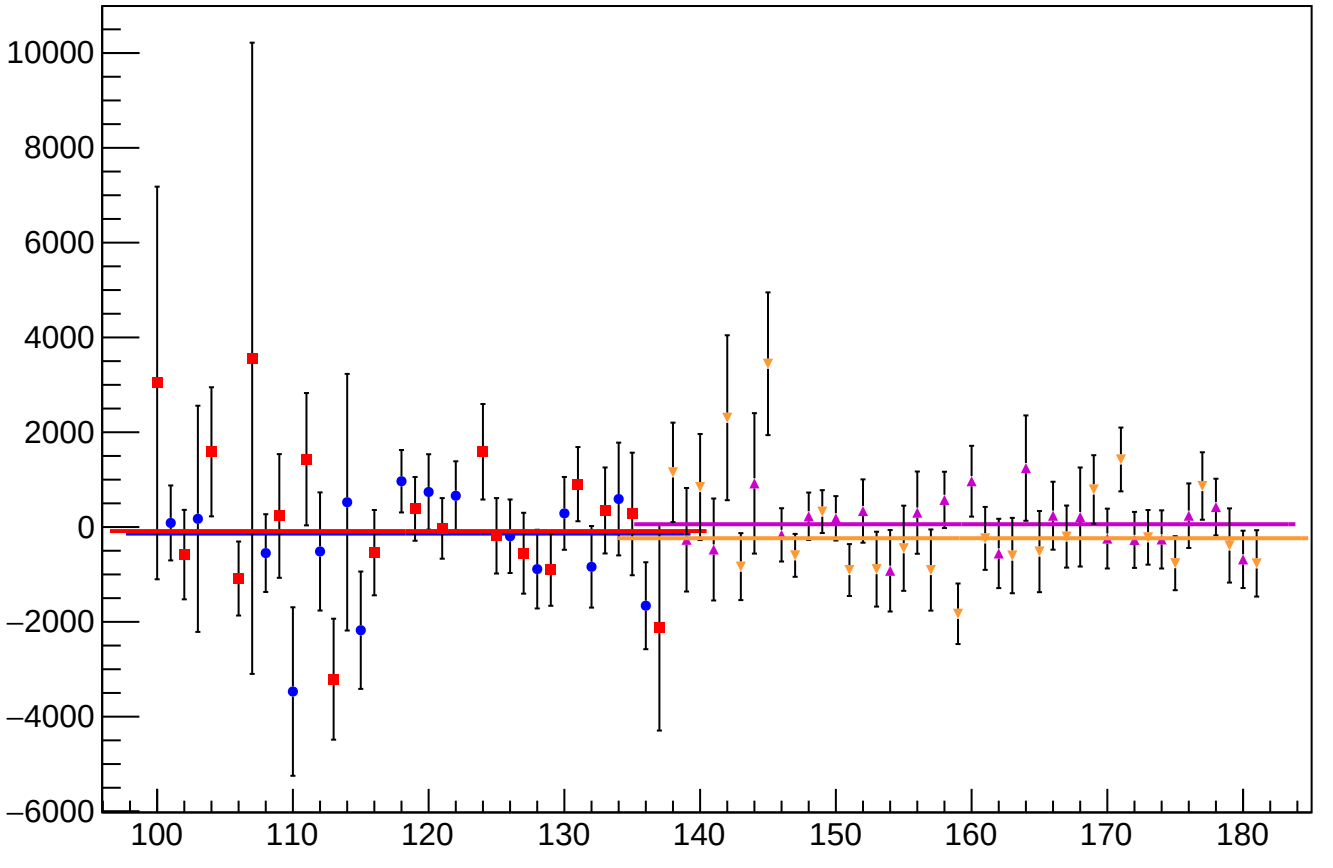
Left: 1816.058+/-0.215 $\chi^2$/NDF: 14763.4/43

Right: 1955.673+/-0.368 $\chi^2$/NDF: 1021031.8/34

In: 1845.581+/-0.266 $\chi^2$/NDF:681904.2/36

Out: 1857.379+/-0.260 $\chi^2$/NDF:459945.3/41

All: 1851.597+/-0.186 $\chi^2$/NDF: 1142856.4/78




Right In: -137.491+/-230.382 $\chi^2$/NDF: 16.9/15

Left Out: -235.428+/-144.857 $\chi^2$/NDF:35.1/22

Right Out: -84.947+/-221.881 $\chi^2$/NDF: 19.3/18

Left In: 59.674+/-149.569 $\chi^2$/NDF:9.5/20

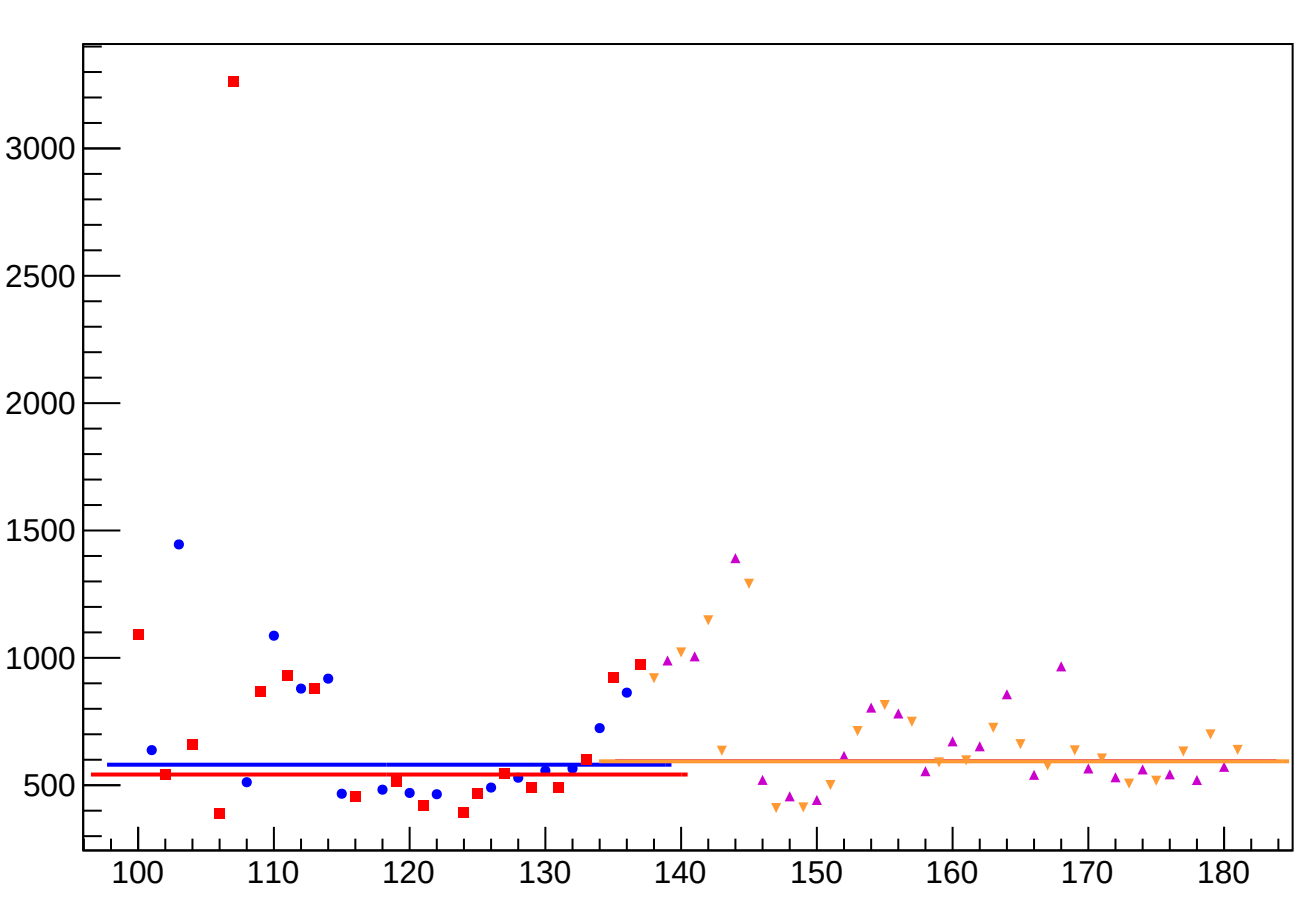
Left: -92.599+/-104.055 $\chi^2$/NDF: 46.6/43

Right: -110.232+/-159.814 $\chi^2$/NDF: 36.2/34

In: 1.212+/-125.450 $\chi^2$/NDF:26.9/36

Out: -190.457+/-121.296 $\chi^2$/NDF:54.7/41

All: -97.849+/-87.201 $\chi^2$/NDF: 82.8/78




Right In: 580.519+/-0.163 $\chi^2$/NDF: 1002900.5/15

Left Out: 593.892+/-0.102 $\chi^2$/NDF:2270456.3/22

Right Out: 541.939+/-0.157 $\chi^2$/NDF: 1318850.5/18

Left In: 594.916+/-0.106 $\chi^2$/NDF:2243811.5/20

Left: 594.387+/-0.074 $\chi^2$/NDF: 4514316.2/43

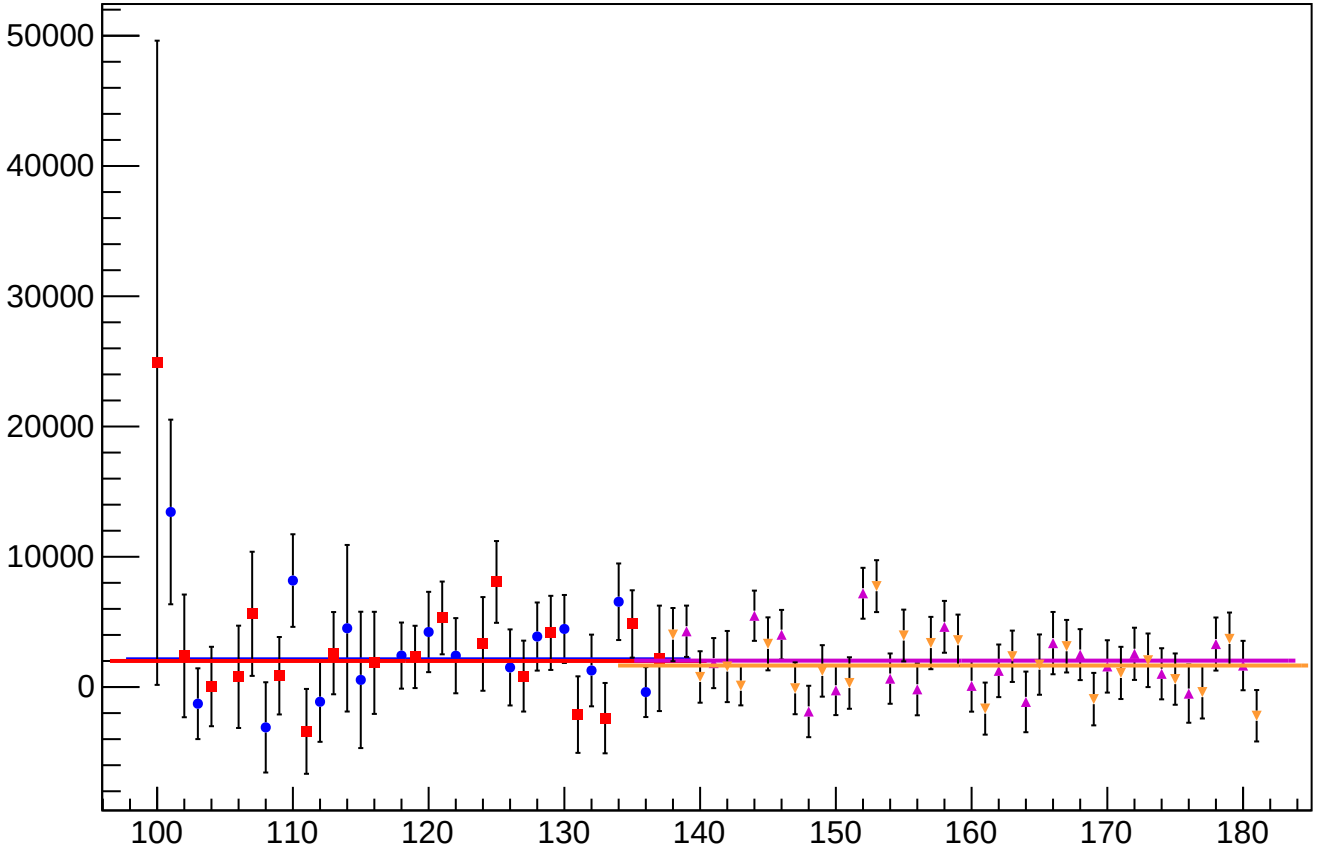
Right: 560.504+/-0.113 $\chi^2$/NDF: 2350848.1/34

In: 590.647+/-0.089 $\chi^2$/NDF:3252206.5/36

Out: 578.366+/-0.086 $\chi^2$/NDF:3666188.3/41

All: 584.299+/-0.062 $\chi^2$/NDF: 6928301.2/78

# dit_asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2128.748+/-746.242 $\chi^2$/NDF: 16.5/15

Left Out: 1652.641+/-416.632 $\chi^2$/NDF:28.3/22

Right Out: 2002.220+/-737.195 $\chi^2$/NDF: 16.7/18

Left In: 2028.059+/-437.015 $\chi^2$/NDF:26.8/20

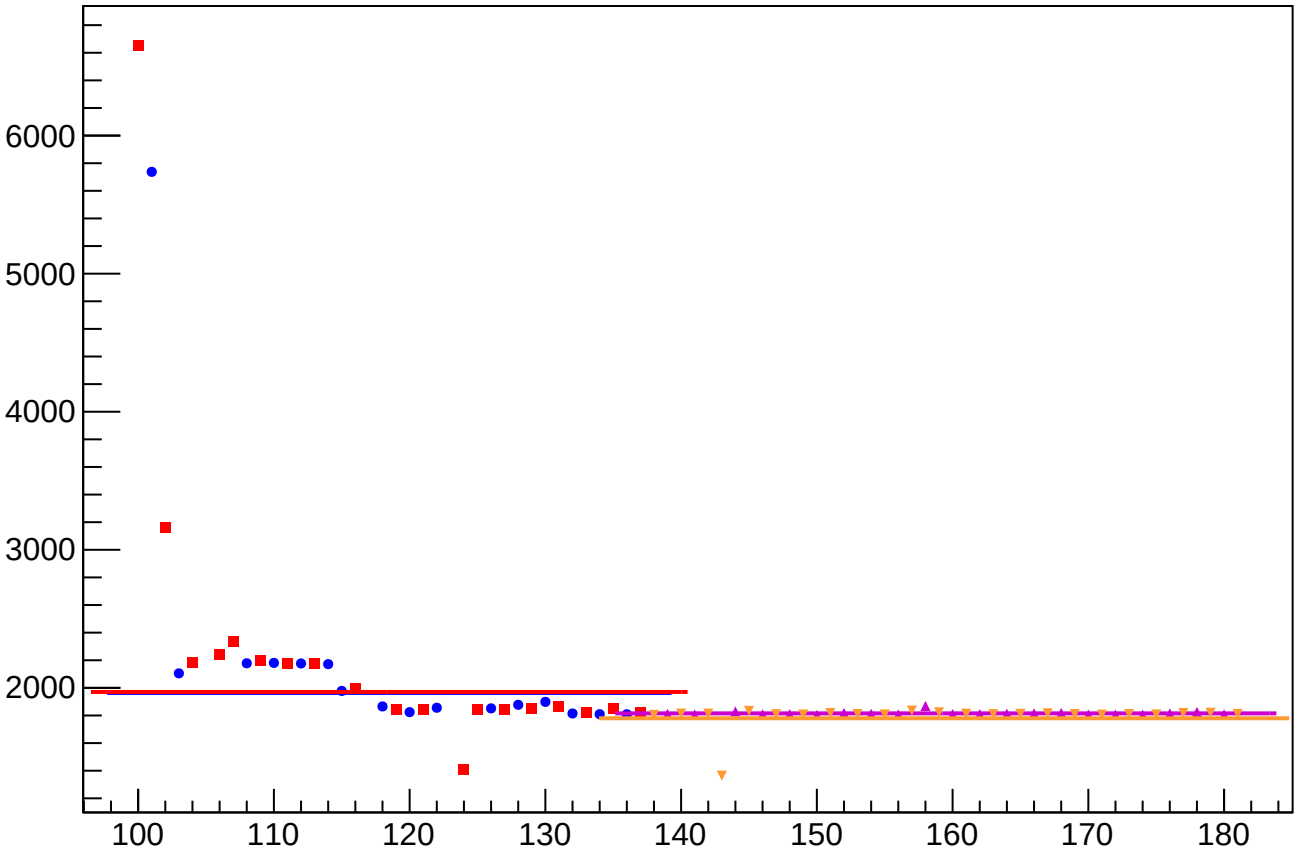
Left: 1831.391+/-301.552 $\chi^2$/NDF: 55.5/43

Right: 2064.712+/-524.445 $\chi^2$/NDF: 33.3/34

In: 2053.772+/-377.109 $\chi^2$/NDF:43.3/36

Out: 1737.267+/-362.713 $\chi^2$/NDF:45.2/41

All: 1889.364+/-261.418 $\chi^2$/NDF: 88.9/78




Right In: 1963.415+/-0.528 $\chi^2$/NDF: 640254.1/15

Left Out: 1779.831+/-0.295 $\chi^2$/NDF:164683.0/22

Right Out: 1970.459+/-0.521 $\chi^2$/NDF: 345133.0/18

Left In: 1815.282+/-0.309 $\chi^2$/NDF:1969.6/20

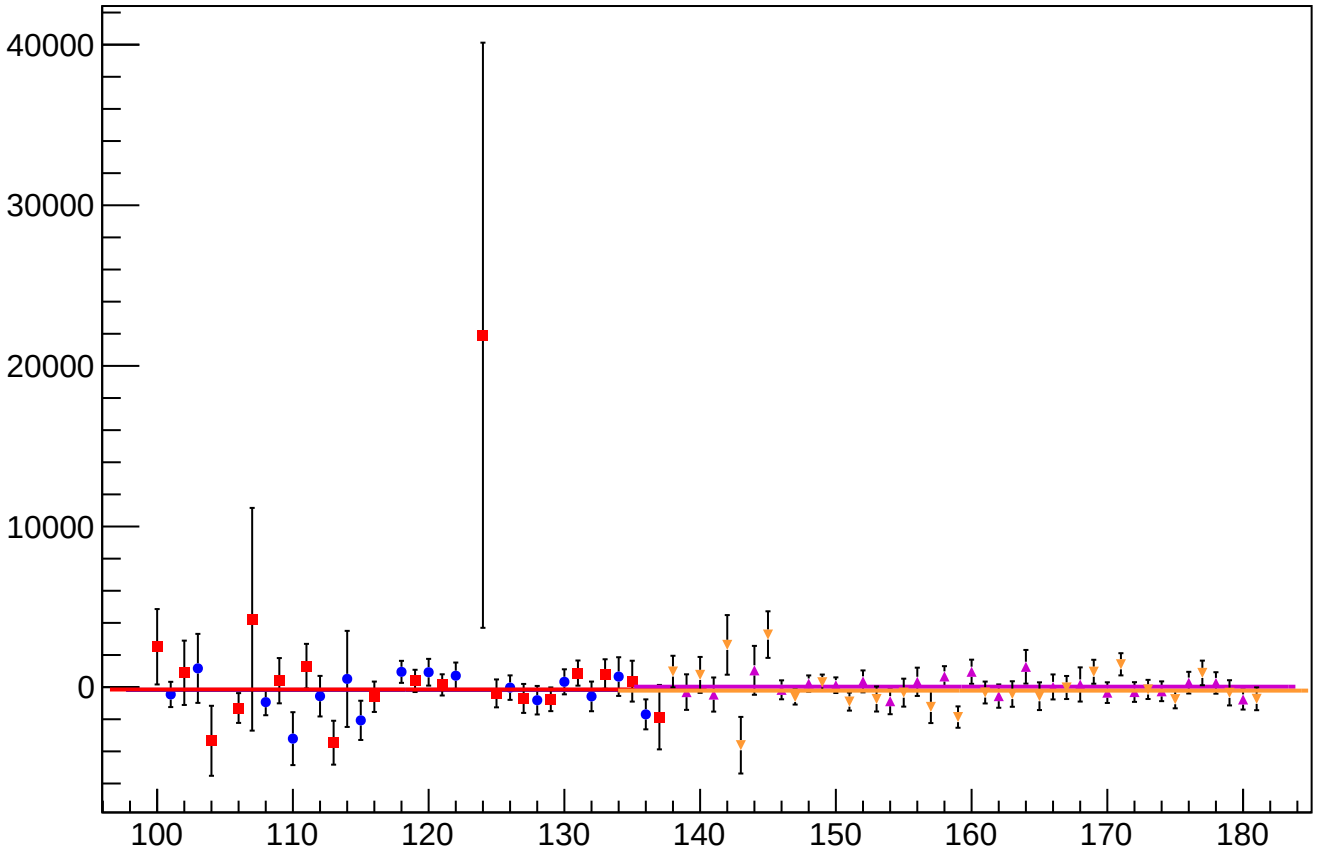
Left: 1796.710+/-0.213 $\chi^2$/NDF: 173547.3/43

Right: 1966.980+/-0.371 $\chi^2$/NDF: 985477.3/34

In: 1853.111+/-0.267 $\chi^2$/NDF:700907.0/36

Out: 1825.979+/-0.256 $\chi^2$/NDF:611175.4/41

All: 1839.017+/-0.185 $\chi^2$/NDF: 1317460.2/78




Right In: -170.774+/-236.912 $\chi^2$/NDF: 17.2/15

Left Out: -216.721+/-152.044 $\chi^2$/NDF:37.0/22

Right Out: -147.489+/-242.848 $\chi^2$/NDF: 20.1/18

Left In: 26.039+/-153.748 $\chi^2$/NDF:9.9/20

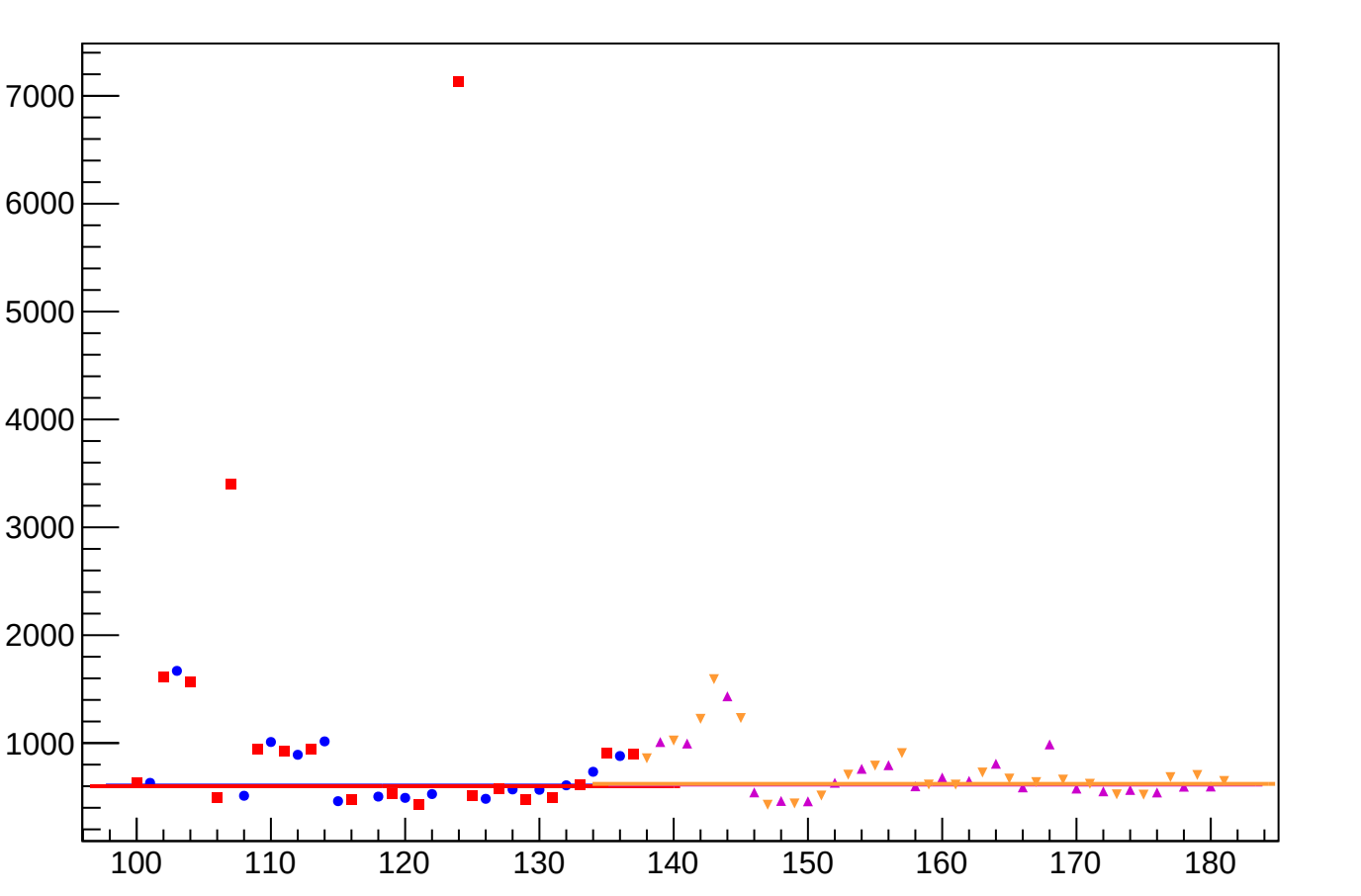
Left: -96.694+/-108.109 $\chi^2$/NDF: 48.2/43

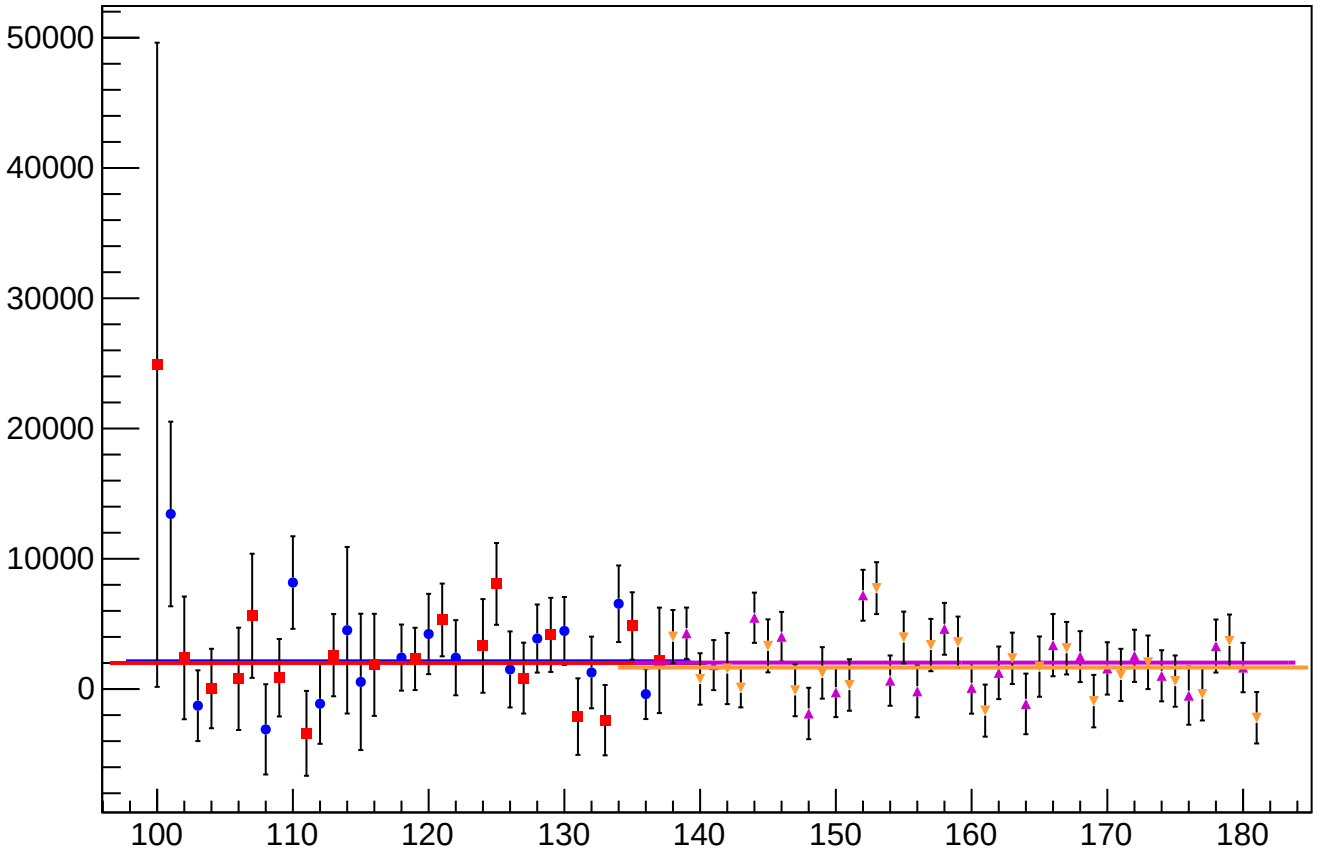
Right: -159.420+/-169.582 $\chi^2$/NDF: 37.3/34

In: -32.286+/-128.970 $\chi^2$/NDF:27.6/36

Out: -197.225+/-128.870 $\chi^2$/NDF:57.2/41

All: -114.820+/-91.160 $\chi^2$/NDF: 85.6/78


asym_at1_avg_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
110
120
130
140
150
160
170
180
Right In: 605.430+/-0.168 χ²/NDF: 1162454.5/15
Left Out: 621.565+/-0.108 χ²/NDF:2704765.7/22
Right Out: 600.447+/-0.172 χ²/NDF: 2328523.8/18
Left In: 615.660+/-0.109 χ²/NDF:2053442.6/20
Left: 618.645+/-0.076 χ²/NDF: 4759699.9/43
Right: 603.000+/-0.120 χ²/NDF: 3491409.7/34
In: 612.628+/-0.091 χ²/NDF:3218521.1/36
Out: 615.618+/-0.091 χ²/NDF:5044154.6/41
All: 614.124+/-0.064 χ²/NDF: 8263213.5/78




Right In: 2128.746+/-746.242 $\chi^2$/NDF: 16.5/15

Left Out: 1652.641+/-416.632 $\chi^2$/NDF:28.3/22

Right Out: 2002.218+/-737.195 $\chi^2$/NDF: 16.7/18

Left In: 2028.059+/-437.015 $\chi^2$/NDF:26.8/20

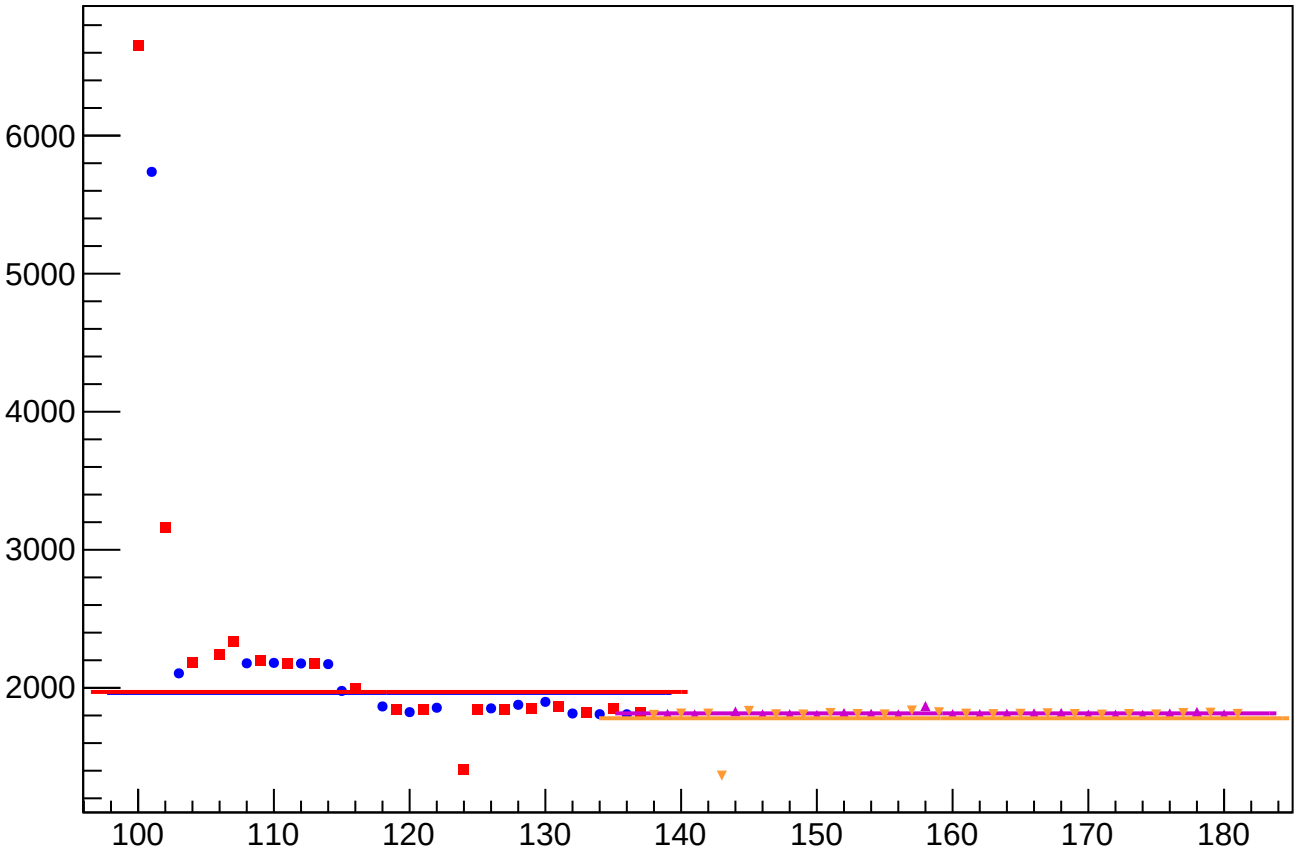
Left: 1831.391+/-301.552 $\chi^2$/NDF: 55.5/43

Right: 2064.710+/-524.445 $\chi^2$/NDF: 33.3/34

In: 2053.772+/-377.109 $\chi^2$/NDF:43.3/36

Out: 1737.267+/-362.713 $\chi^2$/NDF:45.2/41

All: 1889.364+/-261.418 $\chi^2$/NDF: 88.9/78




Right In: 1963.415+/-0.528 $\chi^2$/NDF: 640253.8/15

Left Out: 1779.831+/-0.295 $\chi^2$/NDF:164682.9/22

Right Out: 1970.459+/-0.521 $\chi^2$/NDF: 345131.7/18

Left In: 1815.282+/-0.309 $\chi^2$/NDF:1969.6/20

Left: 1796.710+/-0.213 $\chi^2$/NDF: 173547.3/43

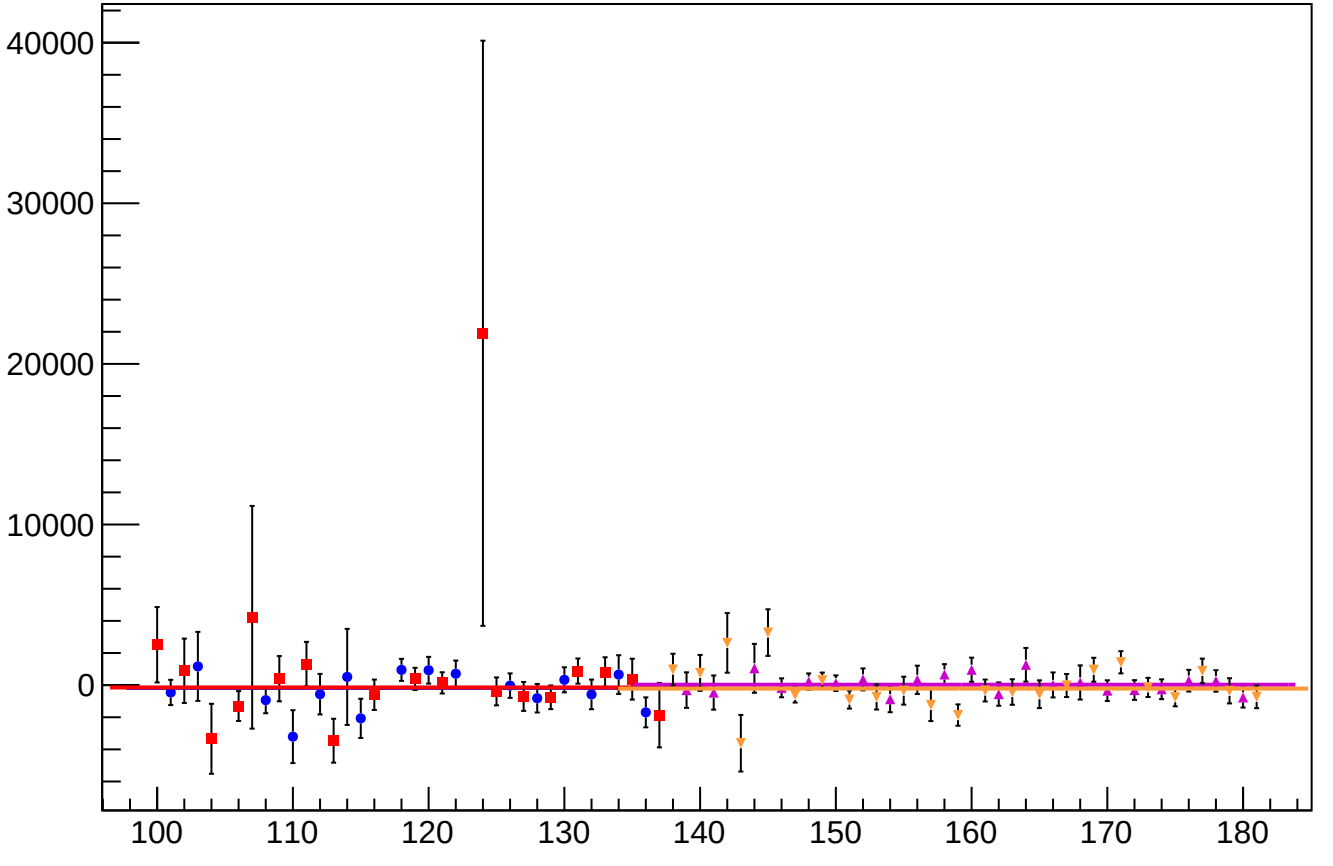
Right: 1966.980+/-0.371 $\chi^2$/NDF: 985475.7/34

In: 1853.111+/-0.267 $\chi^2$/NDF:700906.5/36

Out: 1825.979+/-0.256 $\chi^2$/NDF:611173.8/41

All: 1839.017+/-0.185 $\chi^2$/NDF: 1317458.2/78

asym_at1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -170.773+/-236.912 $\chi^2$/NDF: 17.2/15

Left Out: -216.721+/-152.044 $\chi^2$/NDF:37.0/22

Right Out: -147.489+/-242.847 $\chi^2$/NDF: 20.1/18

Left In: 26.039+/-153.748 $\chi^2$/NDF:9.9/20

Left: -96.694+/-108.109 $\chi^2$/NDF: 48.2/43

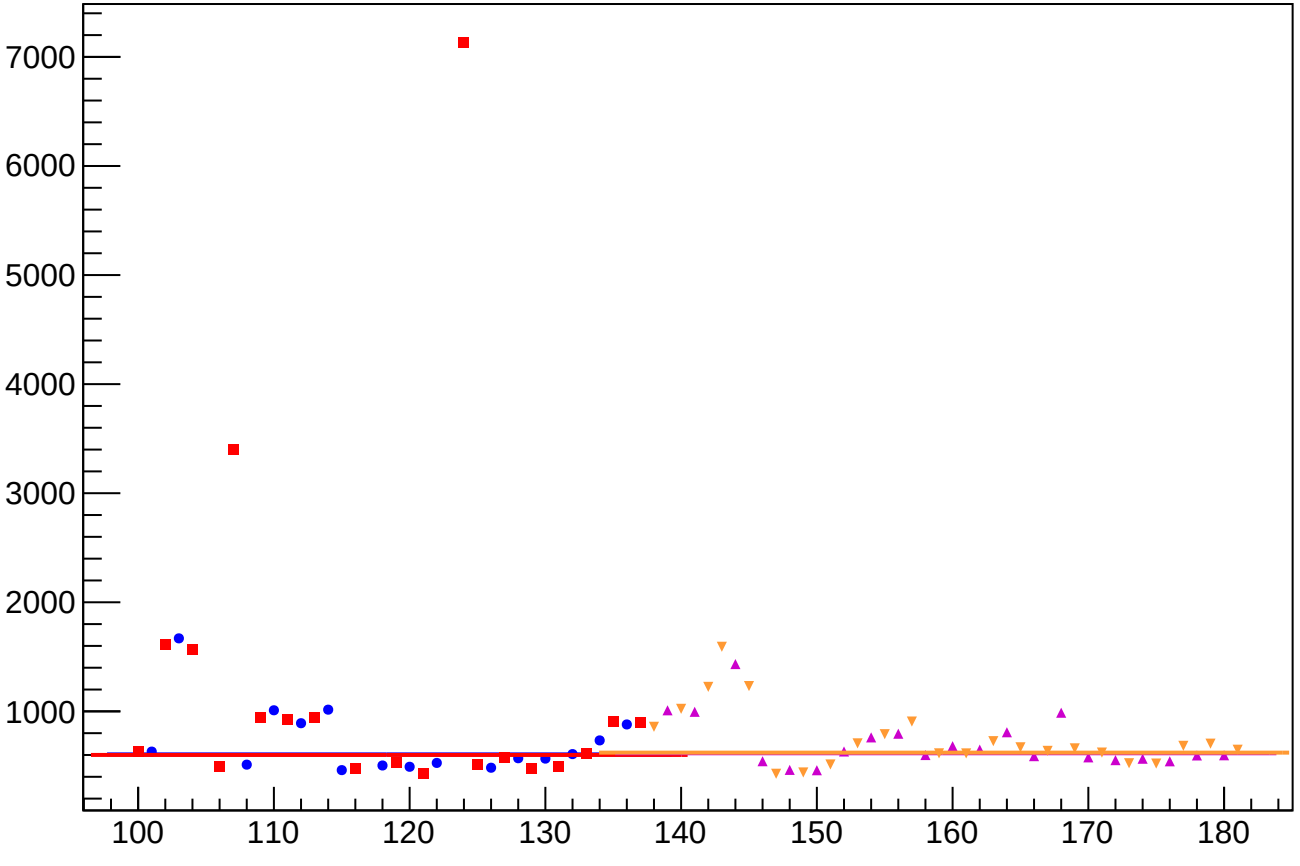
Right: -159.419+/-169.581 $\chi^2$/NDF: 37.3/34

In: -32.286+/-128.970 $\chi^2$/NDF:27.6/36

Out: -197.225+/-128.870 $\chi^2$/NDF:57.2/41

All: -114.820+/-91.160 $\chi^2$/NDF: 85.6/78

asym_at1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 605.429+/-0.168 $\chi^2$/NDF: 1162462.4/15

Left Out: 621.566+/-0.108 $\chi^2$/NDF:2704758.5/22

Right Out: 600.446+/-0.172 $\chi^2$/NDF: 2328531.9/18

Left In: 615.661+/-0.109 $\chi^2$/NDF:2053438.6/20

Left: 618.646+/-0.076 $\chi^2$/NDF: 4759688.7/43

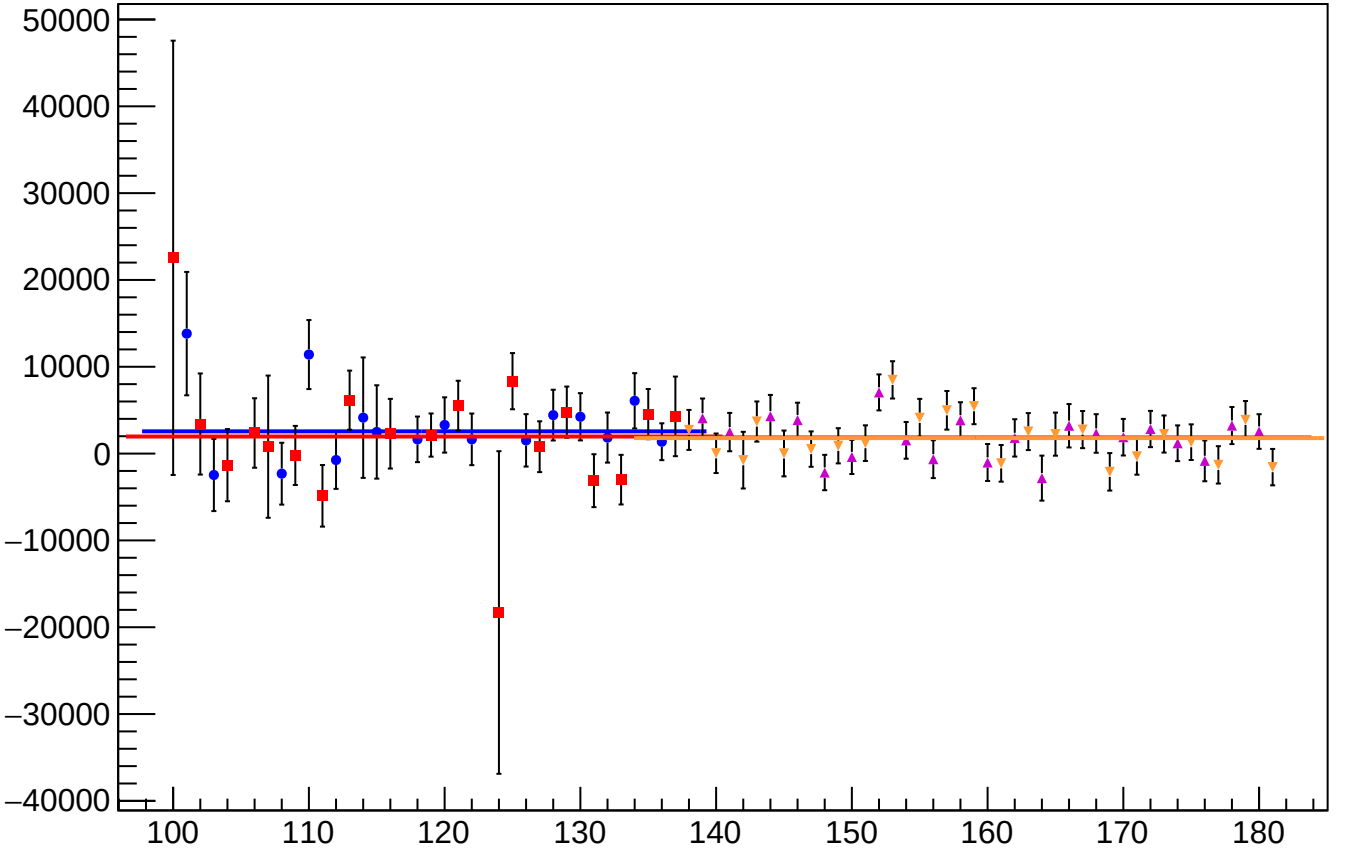
Right: 602.999+/-0.120 $\chi^2$/NDF: 3491425.6/34

In: 612.628+/-0.091 $\chi^2$/NDF:3218526.0/36

Out: 615.618+/-0.091 $\chi^2$/NDF:5044157.2/41

All: 614.124+/-0.064 $\chi^2$/NDF: 8263221.1/78

# asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2560.971+/-809.658 $\chi^2$/NDF: 14.6/15

Left Out: 1784.249+/-458.156 $\chi^2$/NDF:31.4/22

Right Out: 1966.731+/-818.839 $\chi^2$/NDF: 21.6/18

Left In: 1857.866+/-471.194 $\chi^2$/NDF:24.4/20

Left: 1820.025+/-328.478 $\chi^2$/NDF: 55.8/43

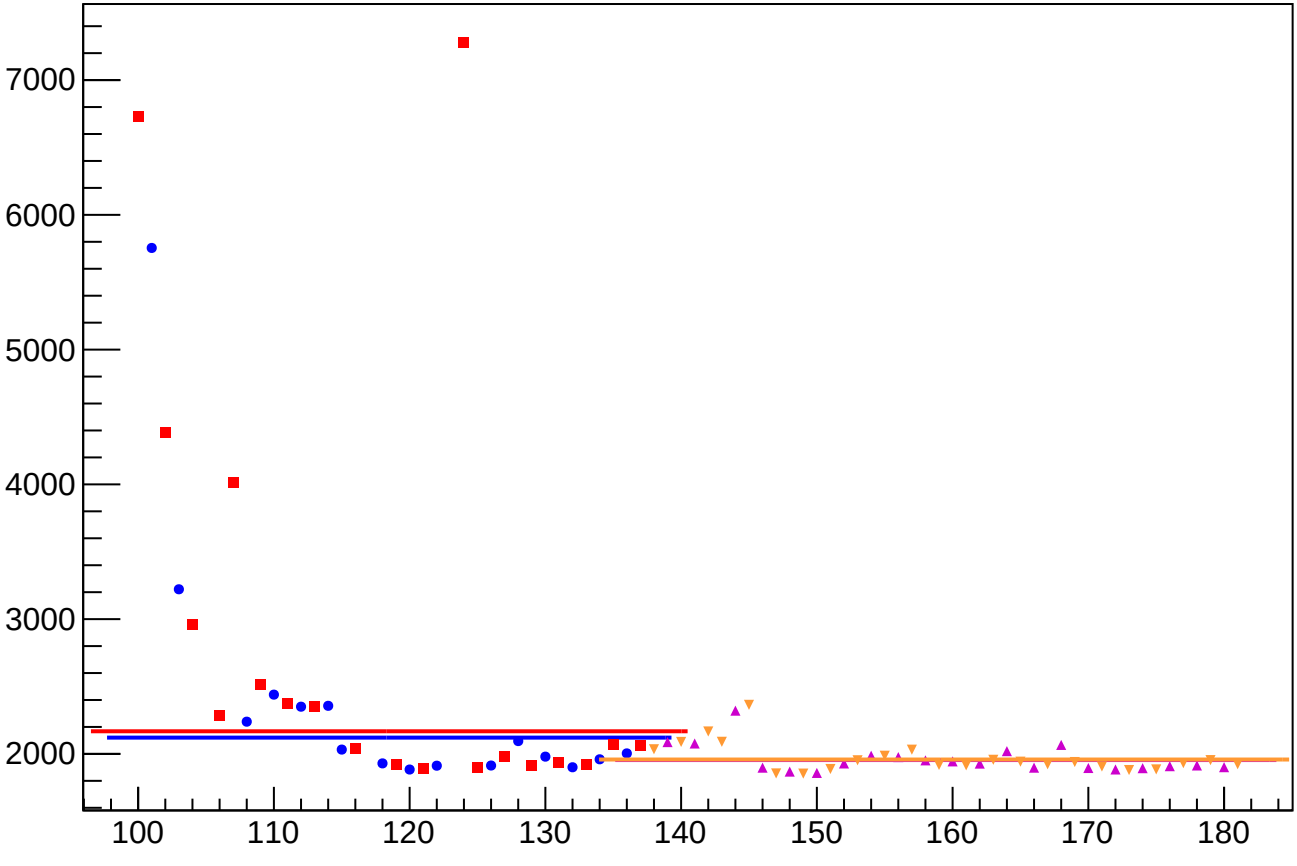
Right: 2267.201+/-575.733 $\chi^2$/NDF: 36.5/34

In: 2035.750+/-407.249 $\chi^2$/NDF:39.6/36

Out: 1827.757+/-399.826 $\chi^2$/NDF:53.0/41

All: 1929.840+/-285.308 $\chi^2$/NDF: 92.7/78

# asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 2120.778+/-0.573 $\chi^2$/NDF: 759969.1/15

Left Out: 1958.217+/-0.324 $\chi^2$/NDF:95648.5/22

Right Out: 2167.840+/-0.579 $\chi^2$/NDF: 823925.5/18

Left In: 1954.305+/-0.333 $\chi^2$/NDF:84814.8/20

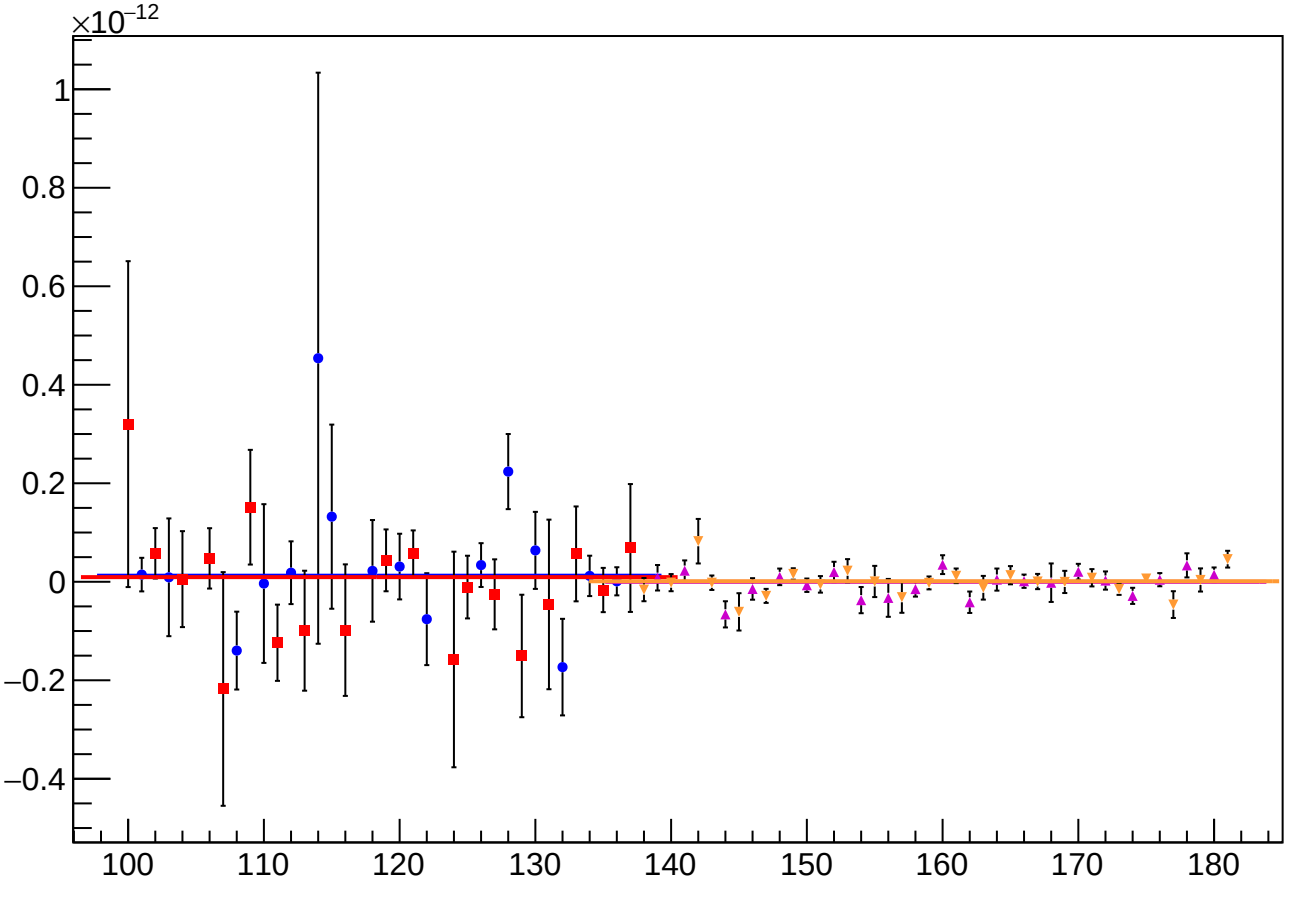
Left: 1956.316+/-0.232 $\chi^2$/NDF: 180534.1/43

Right: 2144.044+/-0.407 $\chi^2$/NDF: 1587235.2/34

In: 1996.422+/-0.288 $\chi^2$/NDF:907942.6/36

Out: 2008.196+/-0.283 $\chi^2$/NDF:1019396.0/41

All: 2002.417+/-0.202 $\chi^2$/NDF: 1928189.8/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:28.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.6/20

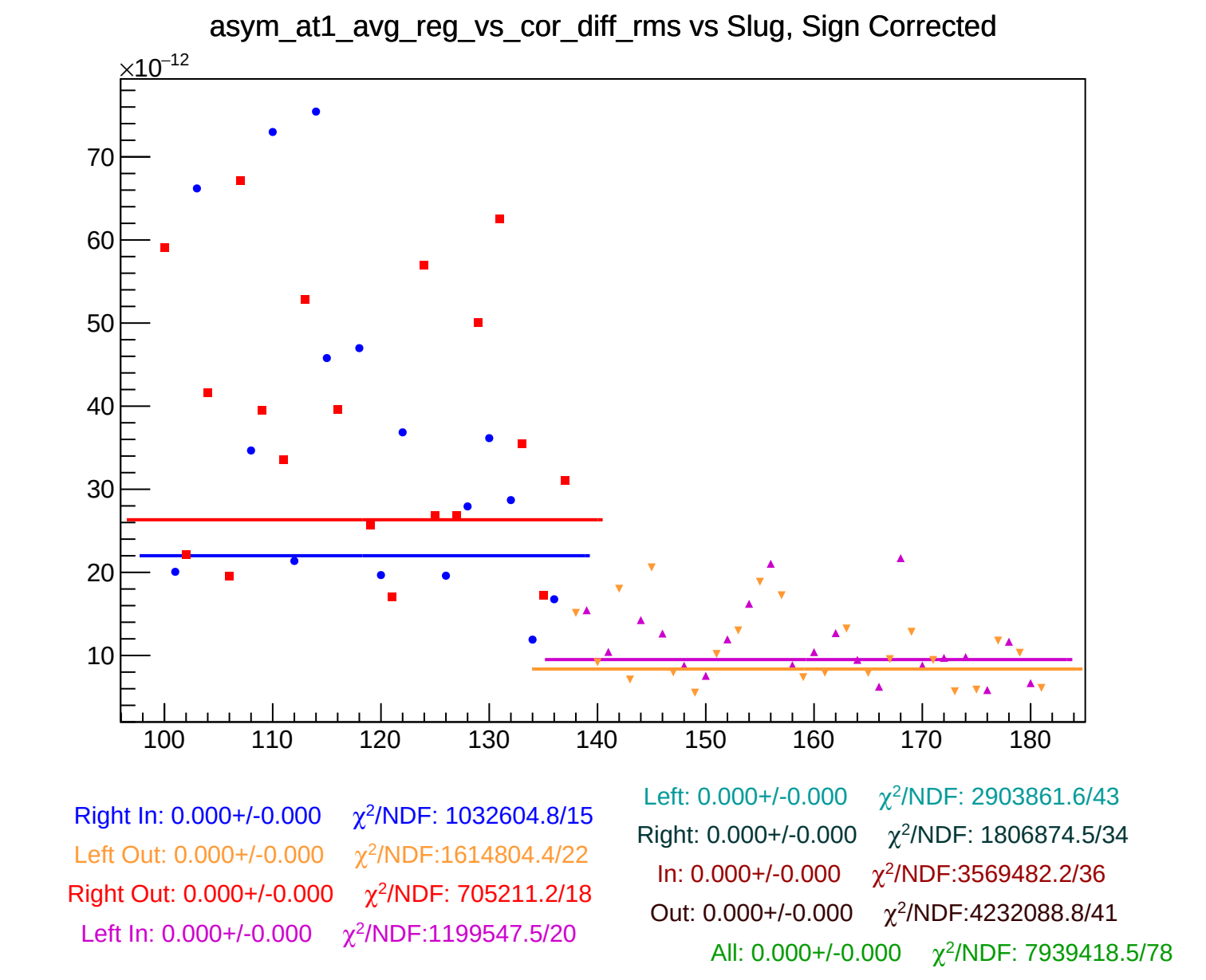
Left: 0.000+/-0.000 $\chi^2$/NDF: 55.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.6/34

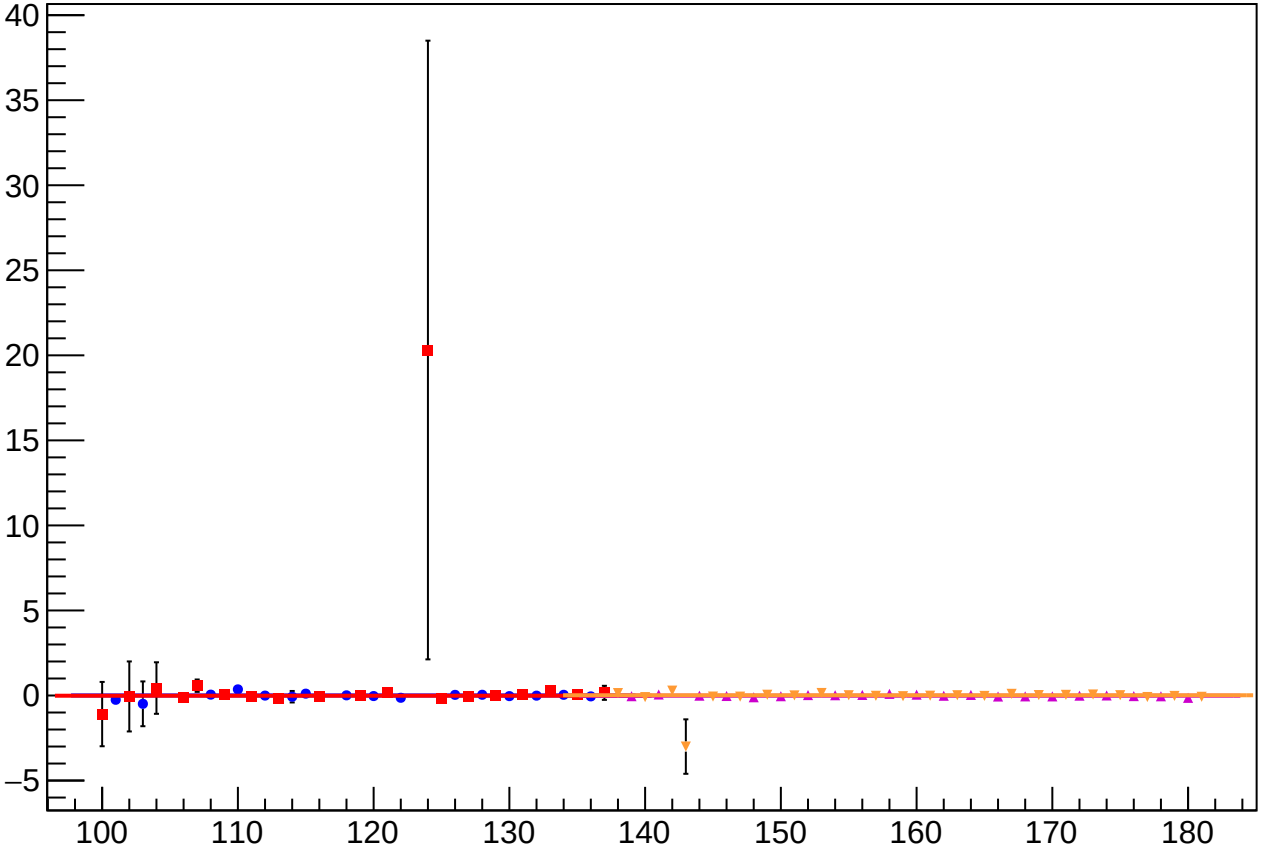
In: 0.000+/-0.000 $\chi^2$/NDF:46.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:42.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 88.3/78


asym_at1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1032604.8/15
Left Out: 0.000+/-0.000 χ²/NDF:1614804.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 705211.2/18
Left In: 0.000+/-0.000 χ²/NDF:1199547.5/20
Left: 0.000+/-0.000 χ²/NDF: 2903861.6/43
Right: 0.000+/-0.000 χ²/NDF: 1806874.5/34
In: 0.000+/-0.000 χ²/NDF:3569482.2/36
Out: 0.000+/-0.000 χ²/NDF:4232088.8/41
All: 0.000+/-0.000 χ²/NDF: 7939418.5/78

asym_at1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.014+/-0.013 $\chi^2$/NDF:28.3/22

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: -0.013+/-0.013 $\chi^2$/NDF:17.8/20

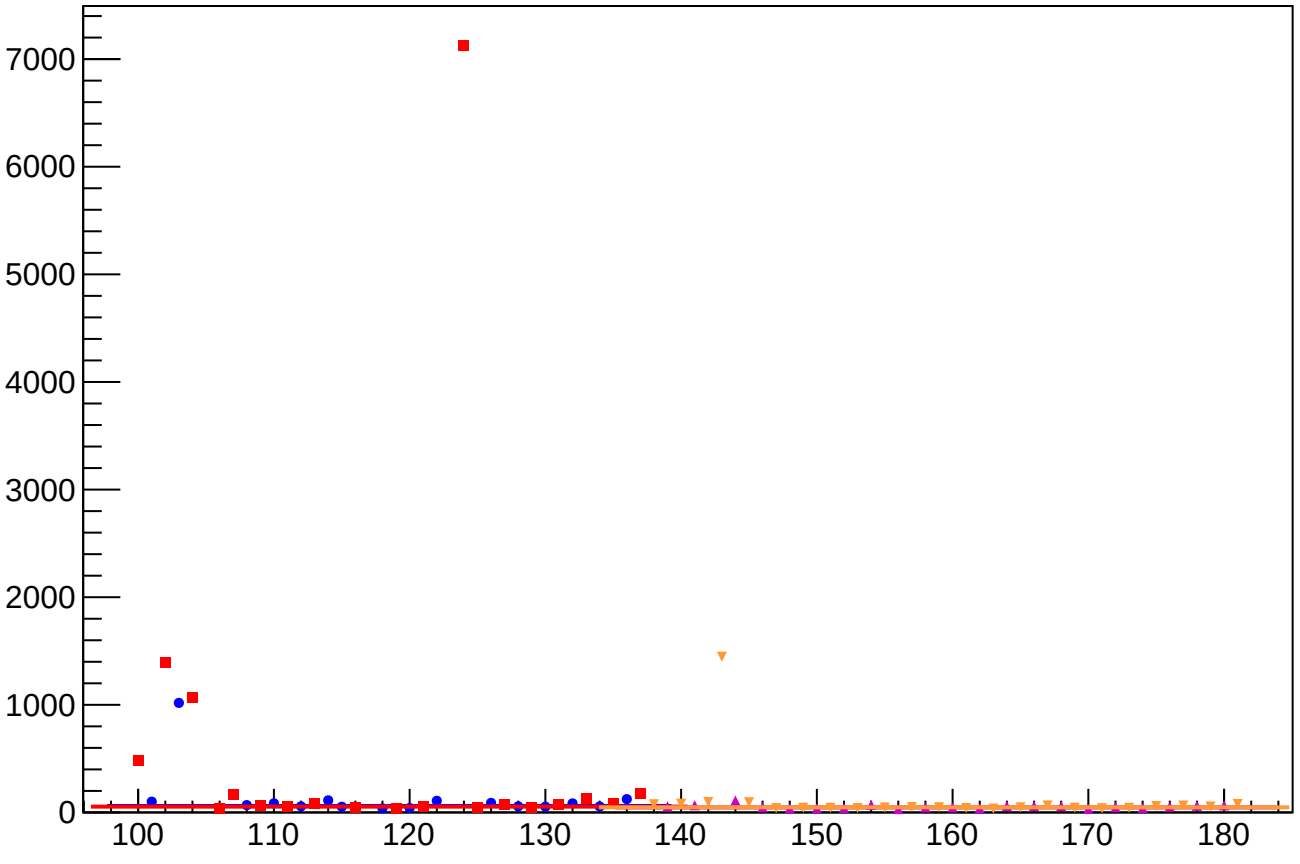
Left: 0.000+/-0.009 $\chi^2$/NDF: 48.5/43

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: -0.010+/-0.011 $\chi^2$/NDF:29.5/36

Out: 0.009+/-0.011 $\chi^2$/NDF:46.8/41

All: -0.001+/-0.008 $\chi^2$/NDF: 77.7/78




Right In: 59.840+/-0.019 $\chi^2$/NDF: 2538867.4/15

Left Out: 47.757+/-0.009 $\chi^2$/NDF:3430195.1/22

Right Out: 54.249+/-0.018 $\chi^2$/NDF: 3521580.5/18

Left In: 46.648+/-0.009 $\chi^2$/NDF:1945409.9/20

Left: 47.196+/-0.006 $\chi^2$/NDF: 5383206.7/43

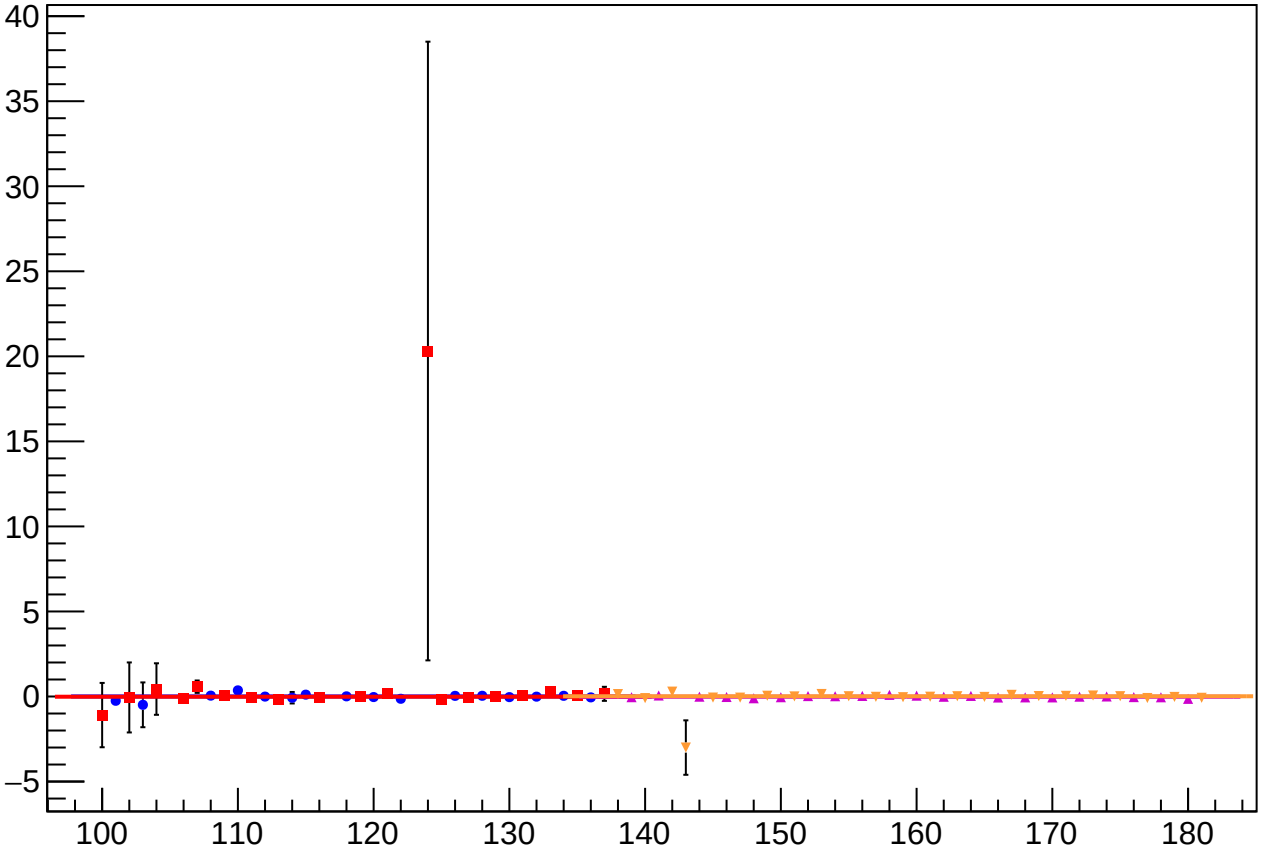
Right: 56.948+/-0.013 $\chi^2$/NDF: 6105751.4/34

In: 49.061+/-0.008 $\chi^2$/NDF:4882663.0/36

Out: 49.039+/-0.008 $\chi^2$/NDF:7053296.9/41

All: 49.050+/-0.006 $\chi^2$/NDF: 11935963.4/78

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.014+/-0.013 $\chi^2$/NDF:28.3/22

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: -0.013+/-0.013 $\chi^2$/NDF:17.8/20

Left: 0.000+/-0.009 $\chi^2$/NDF: 48.5/43

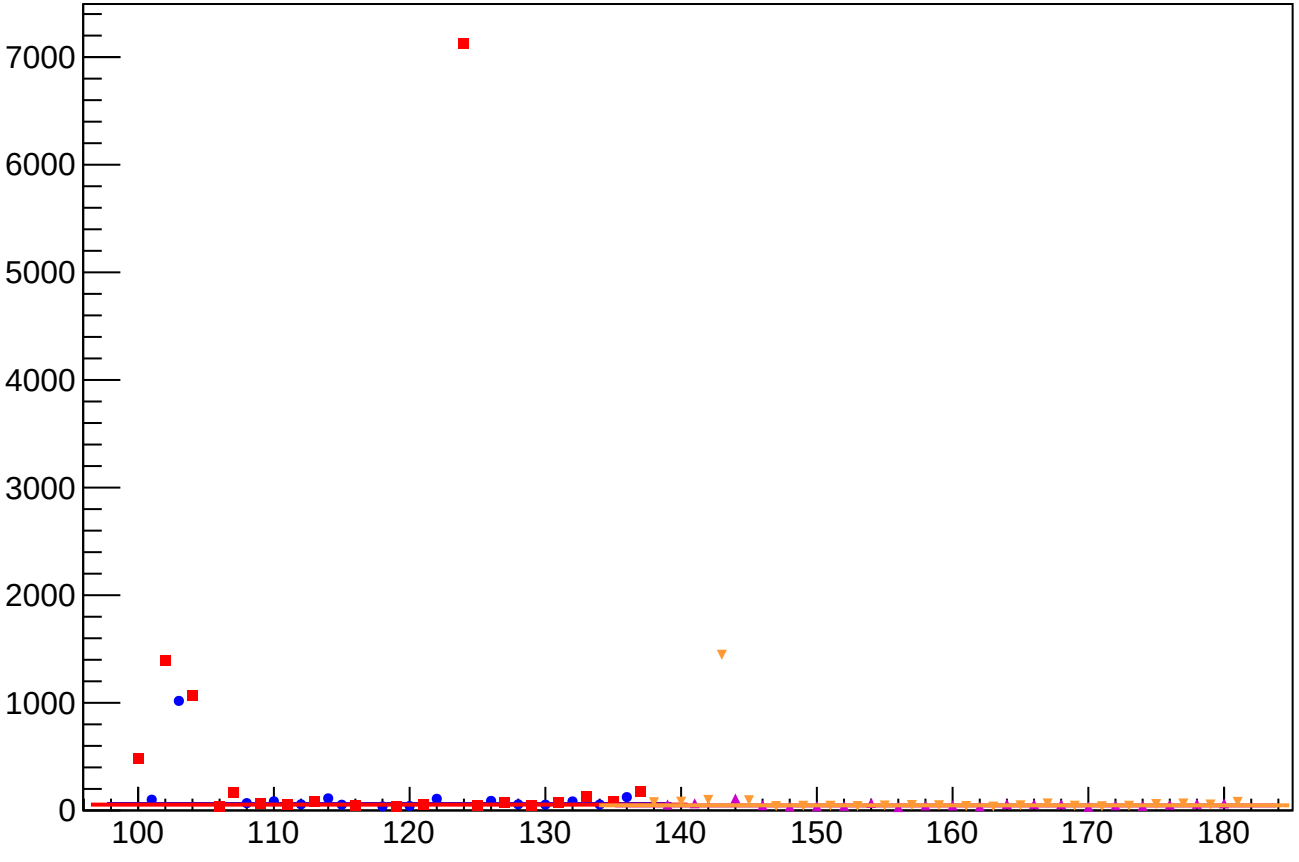
Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: -0.010+/-0.011 $\chi^2$/NDF:29.5/36

Out: 0.009+/-0.011 $\chi^2$/NDF:46.8/41

All: -0.001+/-0.008 $\chi^2$/NDF: 77.7/78

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 59.840+/-0.019 $\chi^2$/NDF: 2538867.4/15

Left Out: 47.757+/-0.009 $\chi^2$/NDF:3430195.1/22

Right Out: 54.249+/-0.018 $\chi^2$/NDF: 3521580.5/18

Left In: 46.648+/-0.009 $\chi^2$/NDF:1945409.9/20

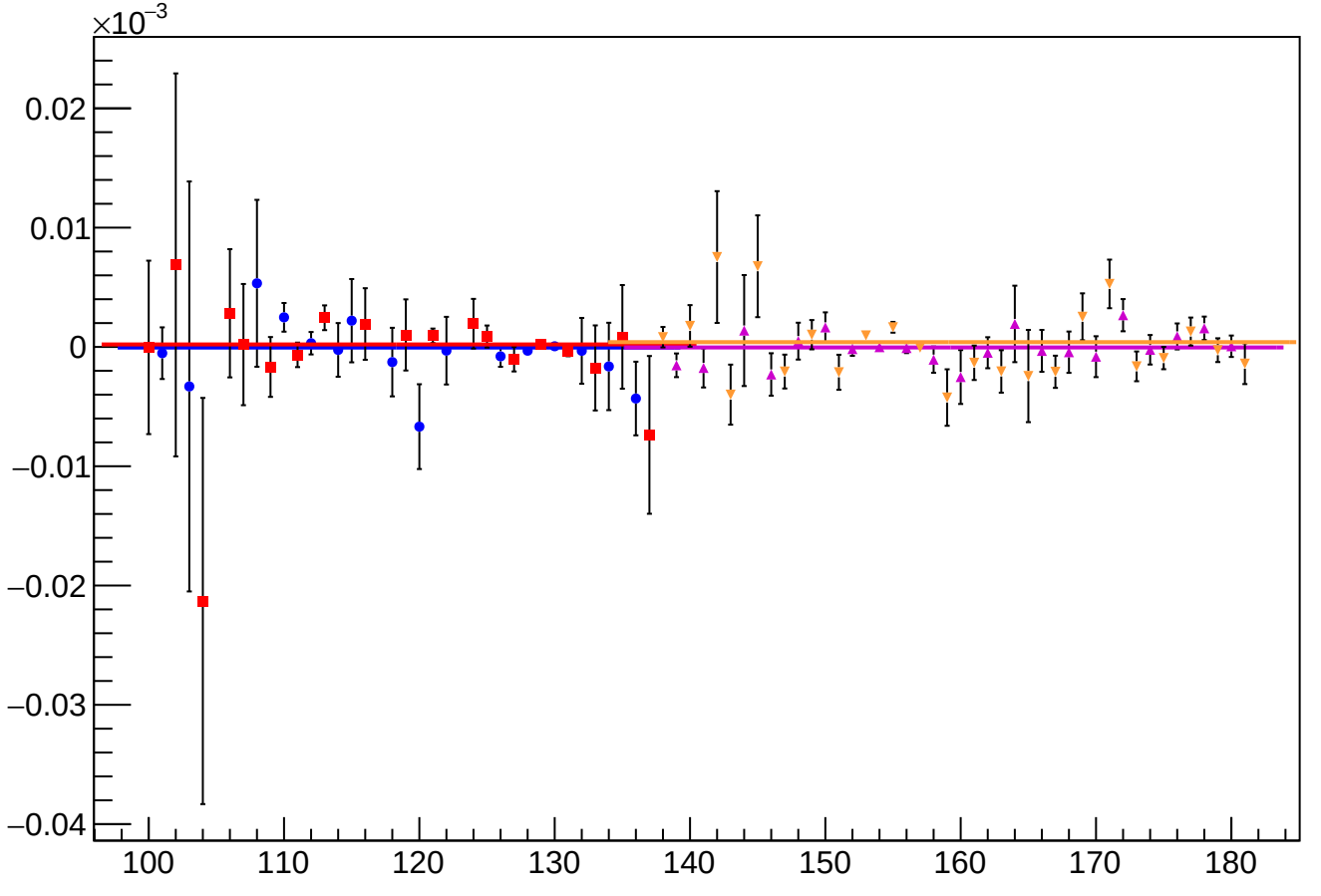
Left: 47.196+/-0.006 $\chi^2$/NDF: 5383206.7/43

Right: 56.948+/-0.013 $\chi^2$/NDF: 6105751.4/34

In: 49.061+/-0.008 $\chi^2$/NDF:4882663.0/36

Out: 49.039+/-0.008 $\chi^2$/NDF:7053296.9/41

All: 49.050+/-0.006 $\chi^2$/NDF: 11935963.4/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:49.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.4/20

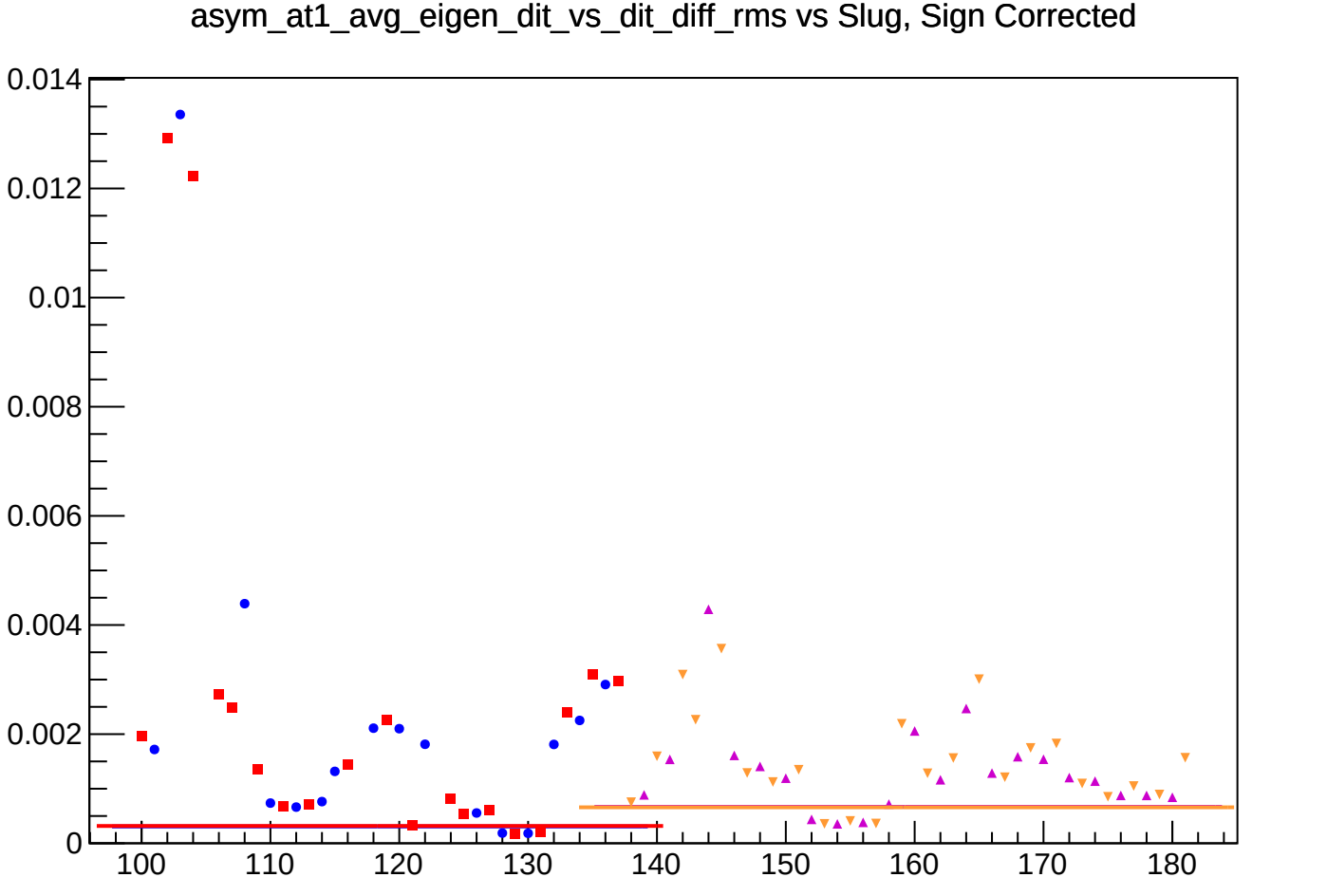
Left: 0.000+/-0.000 $\chi^2$/NDF: 69.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.4/34

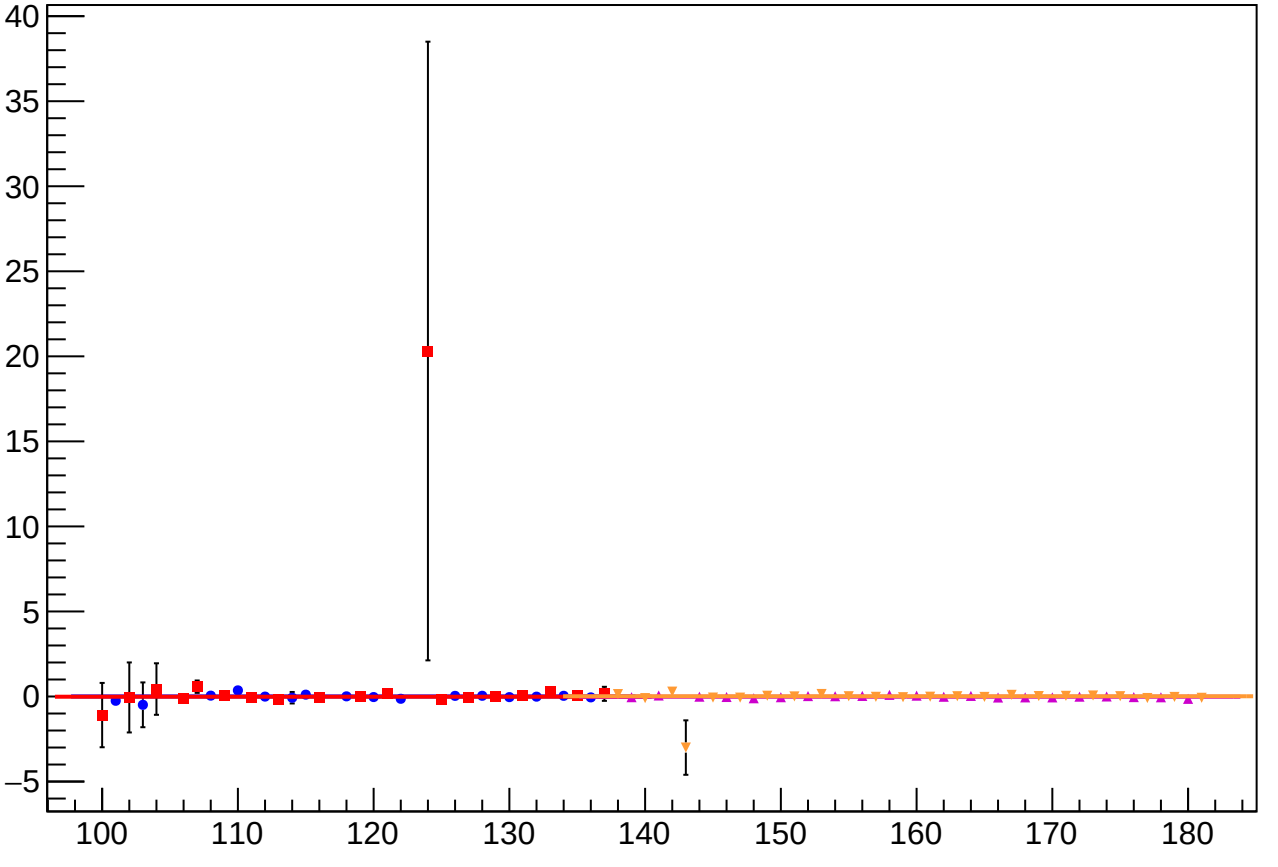
In: -0.000+/-0.000 $\chi^2$/NDF:30.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:66.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 99.6/78


asym_at1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 8756212.9/15
Left Out: 0.001+/-0.000 χ²/NDF:12065239.0/22
Right Out: 0.000+/-0.000 χ²/NDF: 8015537.3/18
Left In: 0.001+/-0.000 χ²/NDF:9667555.2/20
Left: 0.001+/-0.000 χ²/NDF: 21734951.5/43
Right: 0.000+/-0.000 χ²/NDF: 16773891.5/34
In: 0.000+/-0.000 χ²/NDF:21796271.6/36
Out: 0.000+/-0.000 χ²/NDF:23247259.2/41
All: 0.000+/-0.000 χ²/NDF: 45045124.8/78

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.014+/-0.013 $\chi^2$/NDF:28.3/22

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: -0.013+/-0.013 $\chi^2$/NDF:17.8/20

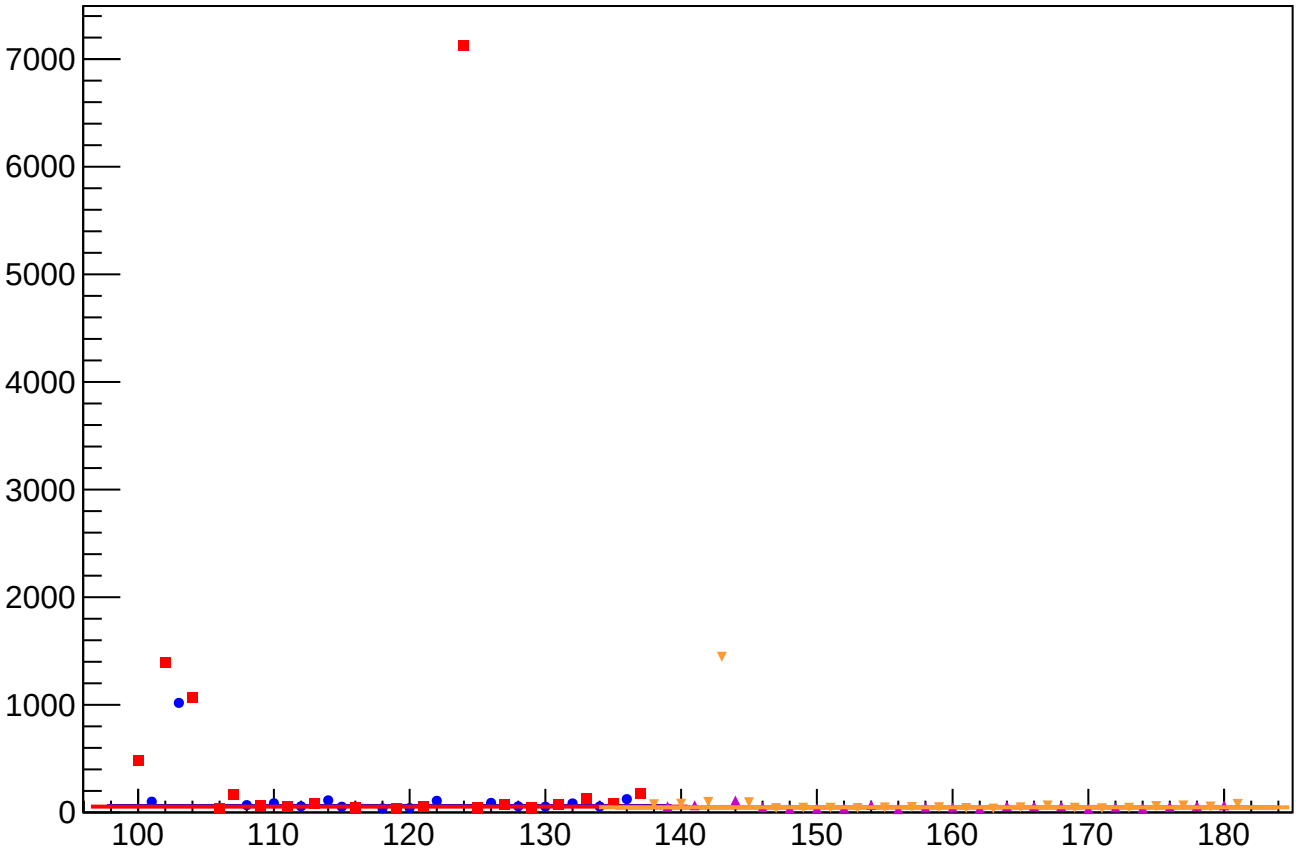
Left: 0.000+/-0.009 $\chi^2$/NDF: 48.5/43

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: -0.010+/-0.011 $\chi^2$/NDF:29.5/36

Out: 0.009+/-0.011 $\chi^2$/NDF:46.8/41

All: -0.001+/-0.008 $\chi^2$/NDF: 77.7/78




Right In: 59.839+/-0.019 $\chi^2$/NDF: 2538881.2/15

Left Out: 47.758+/-0.009 $\chi^2$/NDF:3430171.7/22

Right Out: 54.248+/-0.018 $\chi^2$/NDF: 3521640.4/18

Left In: 46.648+/-0.009 $\chi^2$/NDF:1945404.4/20

Left: 47.196+/-0.006 $\chi^2$/NDF: 5383180.9/43

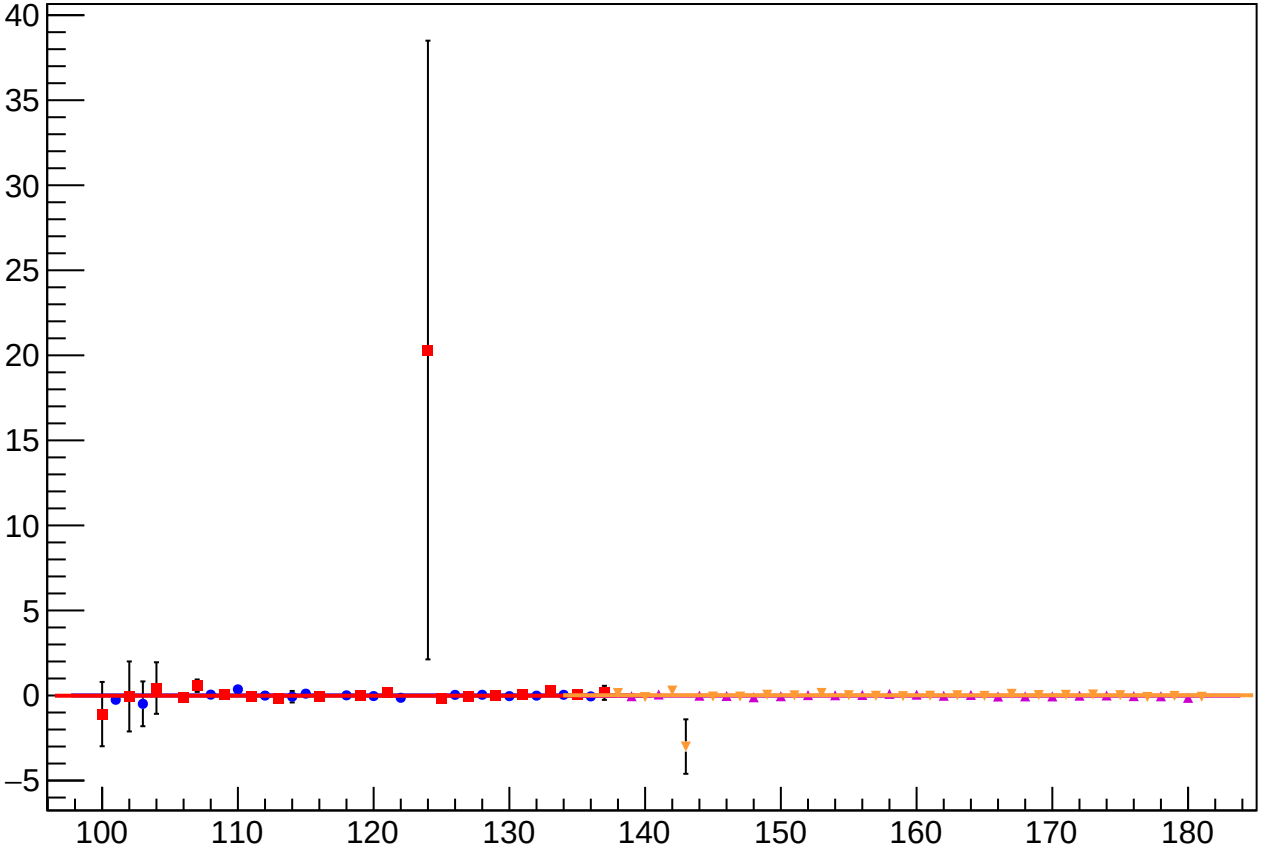
Right: 56.947+/-0.013 $\chi^2$/NDF: 6105839.5/34

In: 49.061+/-0.008 $\chi^2$/NDF:4882661.7/36

Out: 49.039+/-0.008 $\chi^2$/NDF:7053295.7/41

All: 49.050+/-0.006 $\chi^2$/NDF: 11935960.9/78

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.014+/-0.013 $\chi^2$/NDF:28.3/22

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: -0.013+/-0.013 $\chi^2$/NDF:17.8/20

Left: 0.000+/-0.009 $\chi^2$/NDF: 48.5/43

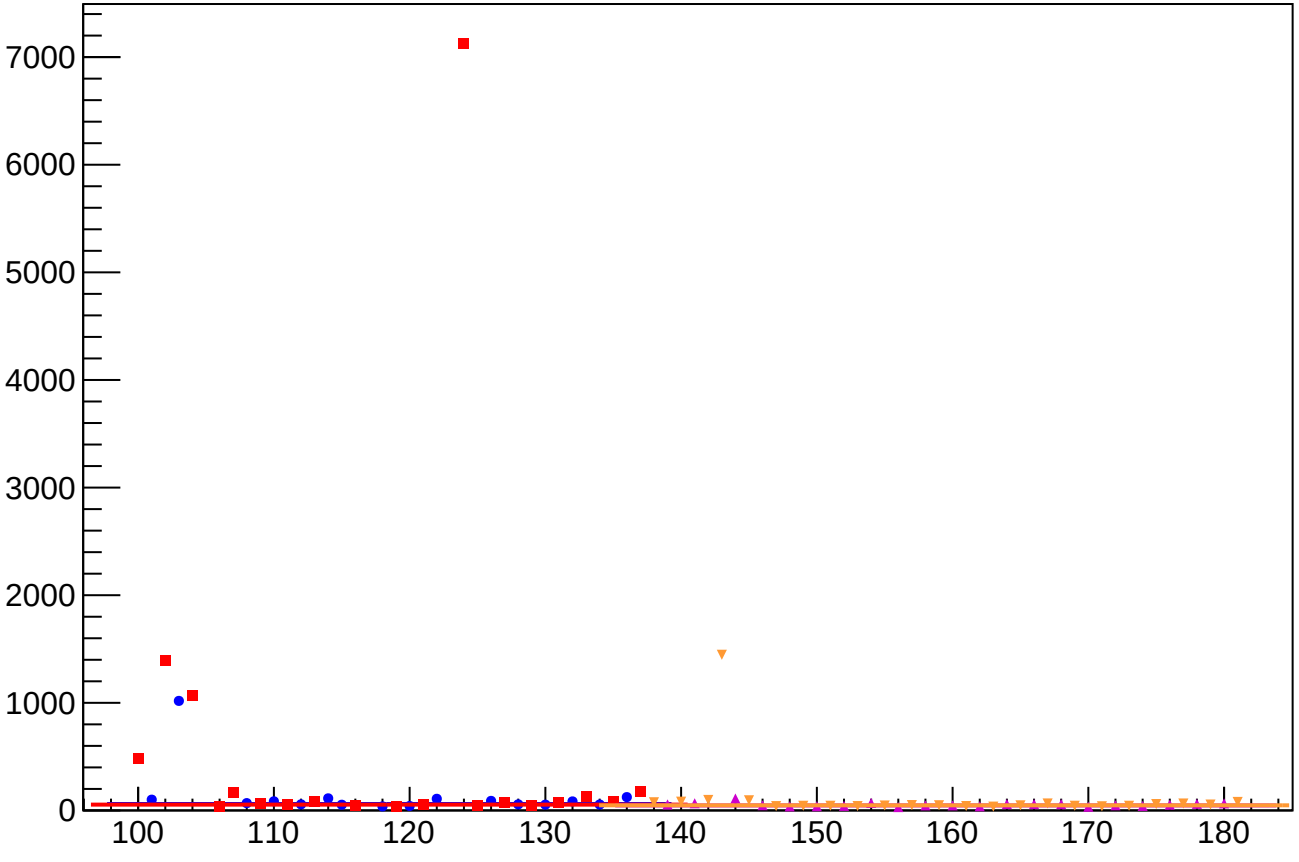
Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: -0.010+/-0.011 $\chi^2$/NDF:29.5/36

Out: 0.009+/-0.011 $\chi^2$/NDF:46.8/41

All: -0.001+/-0.008 $\chi^2$/NDF: 77.7/78

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 59.839+/-0.019 $\chi^2$/NDF: 2538881.2/15

Left Out: 47.758+/-0.009 $\chi^2$/NDF:3430171.7/22

Right Out: 54.248+/-0.018 $\chi^2$/NDF: 3521640.4/18

Left In: 46.648+/-0.009 $\chi^2$/NDF:1945404.4/20

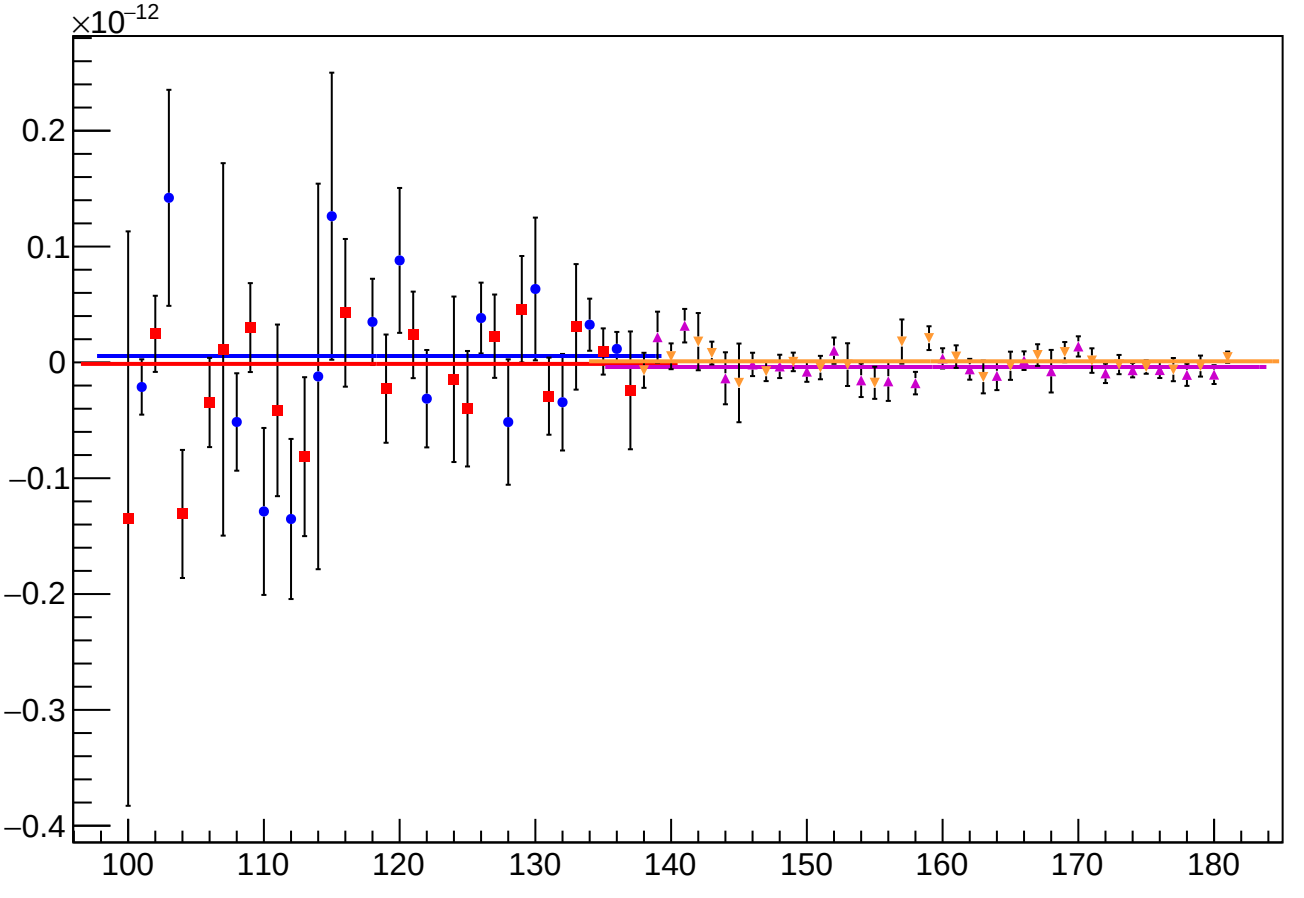
Left: 47.196+/-0.006 $\chi^2$/NDF: 5383180.9/43

Right: 56.947+/-0.013 $\chi^2$/NDF: 6105839.5/34

In: 49.061+/-0.008 $\chi^2$/NDF:4882661.7/36

Out: 49.039+/-0.008 $\chi^2$/NDF:7053295.7/41

All: 49.050+/-0.006 $\chi^2$/NDF: 11935960.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:20.4/20

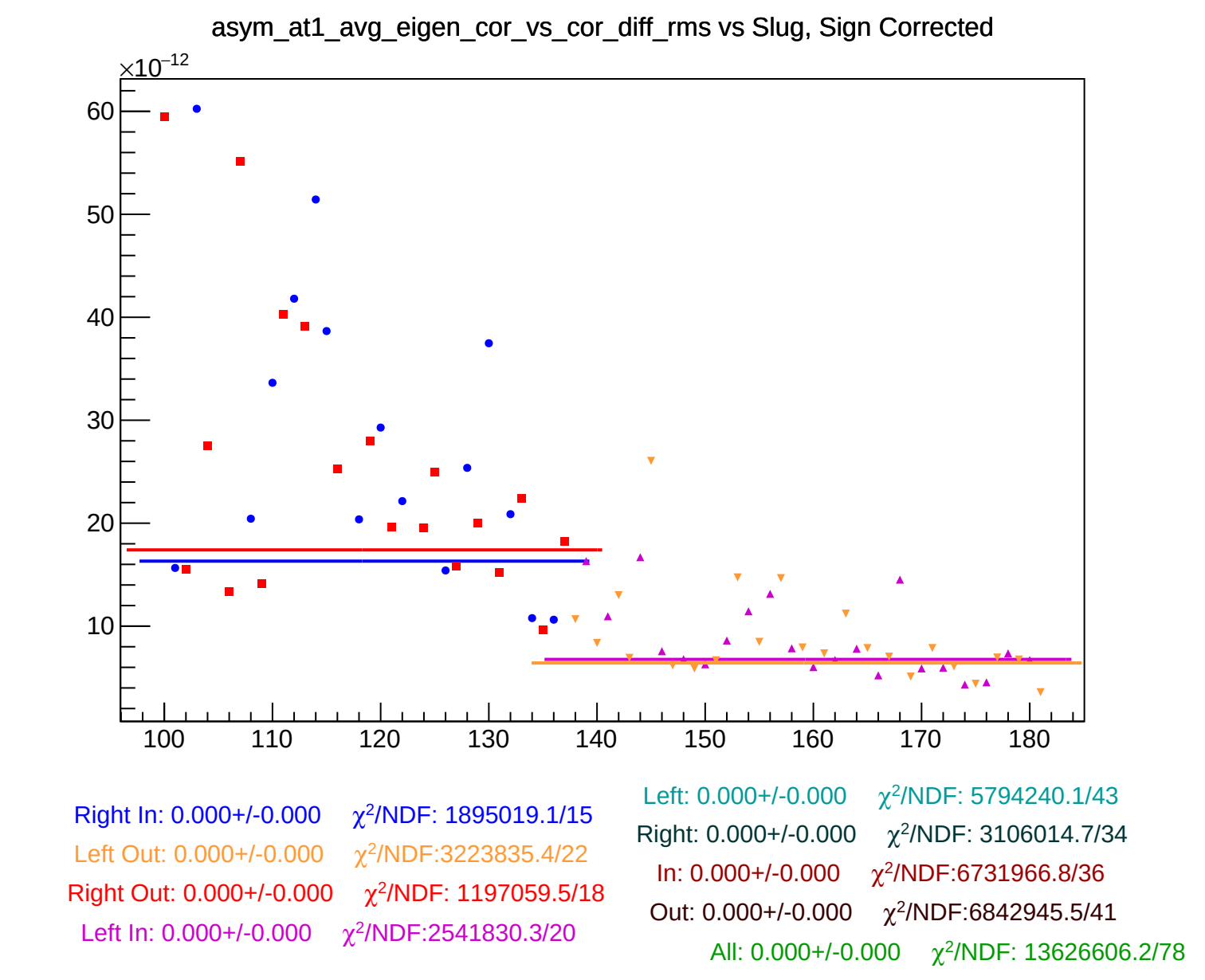
Left: -0.000+/-0.000 $\chi^2$/NDF: 37.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.2/34

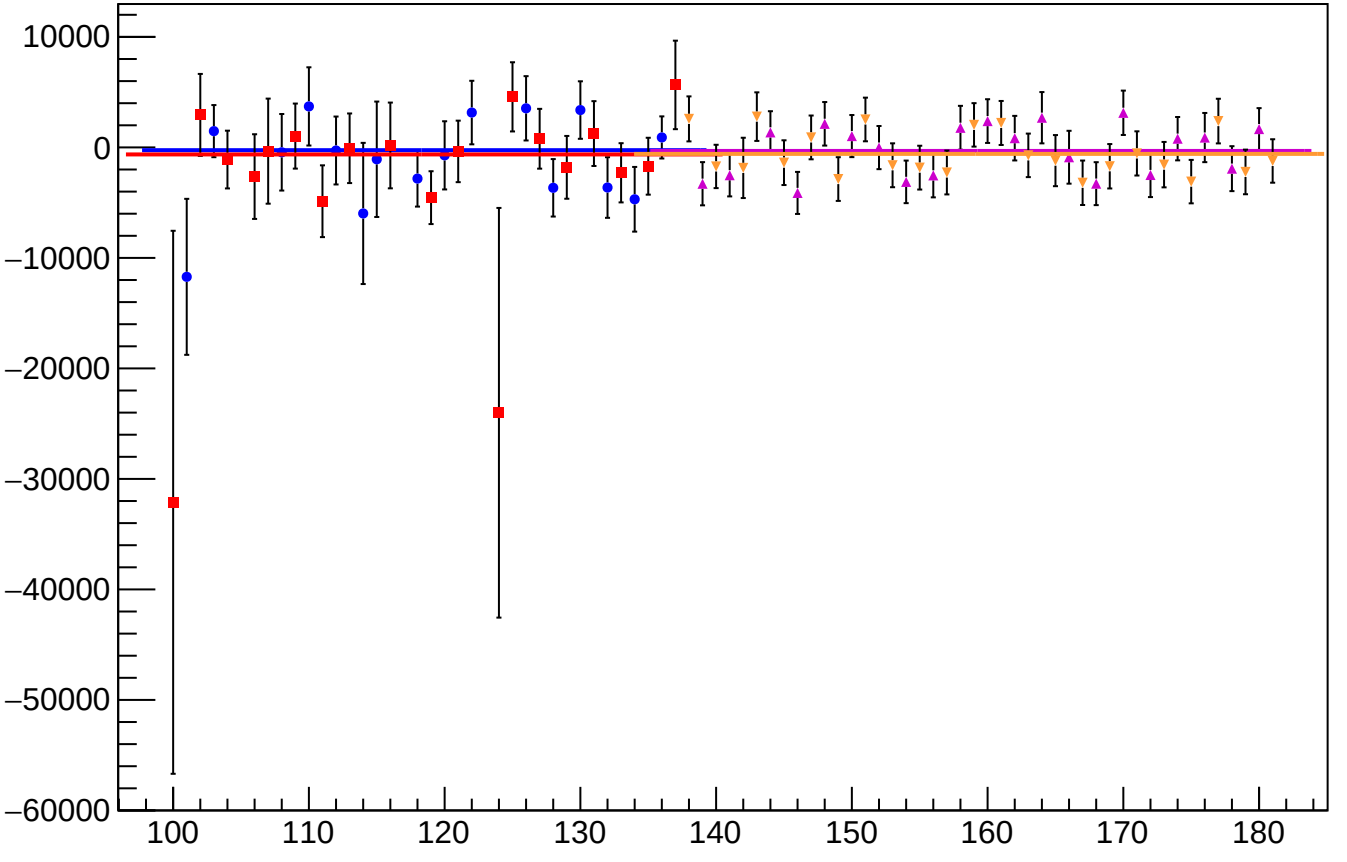
In: -0.000+/-0.000 $\chi^2$/NDF:44.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:28.2/41

All: -0.000+/-0.000 $\chi^2$/NDF: 74.6/78


asym_at1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1895019.1/15
Left Out: 0.000+/-0.000 χ²/NDF:3223835.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 1197059.5/18
Left In: 0.000+/-0.000 χ²/NDF:2541830.3/20
Left: 0.000+/-0.000 χ²/NDF: 5794240.1/43
Right: 0.000+/-0.000 χ²/NDF: 3106014.7/34
In: 0.000+/-0.000 χ²/NDF:6731966.8/36
Out: 0.000+/-0.000 χ²/NDF:6842945.5/41
All: 0.000+/-0.000 χ²/NDF: 13626606.2/78

# reg_asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -251.297+/-735.111 $\chi^2$/NDF: 17.3/15

Left Out: -587.744+/-424.053 $\chi^2$/NDF:21.9/22

Right Out: -636.082+/-735.477 $\chi^2$/NDF: 15.9/18

Left In: -320.699+/-435.995 $\chi^2$/NDF:27.6/20

Left: -457.929+/-303.985 $\chi^2$/NDF: 49.7/43

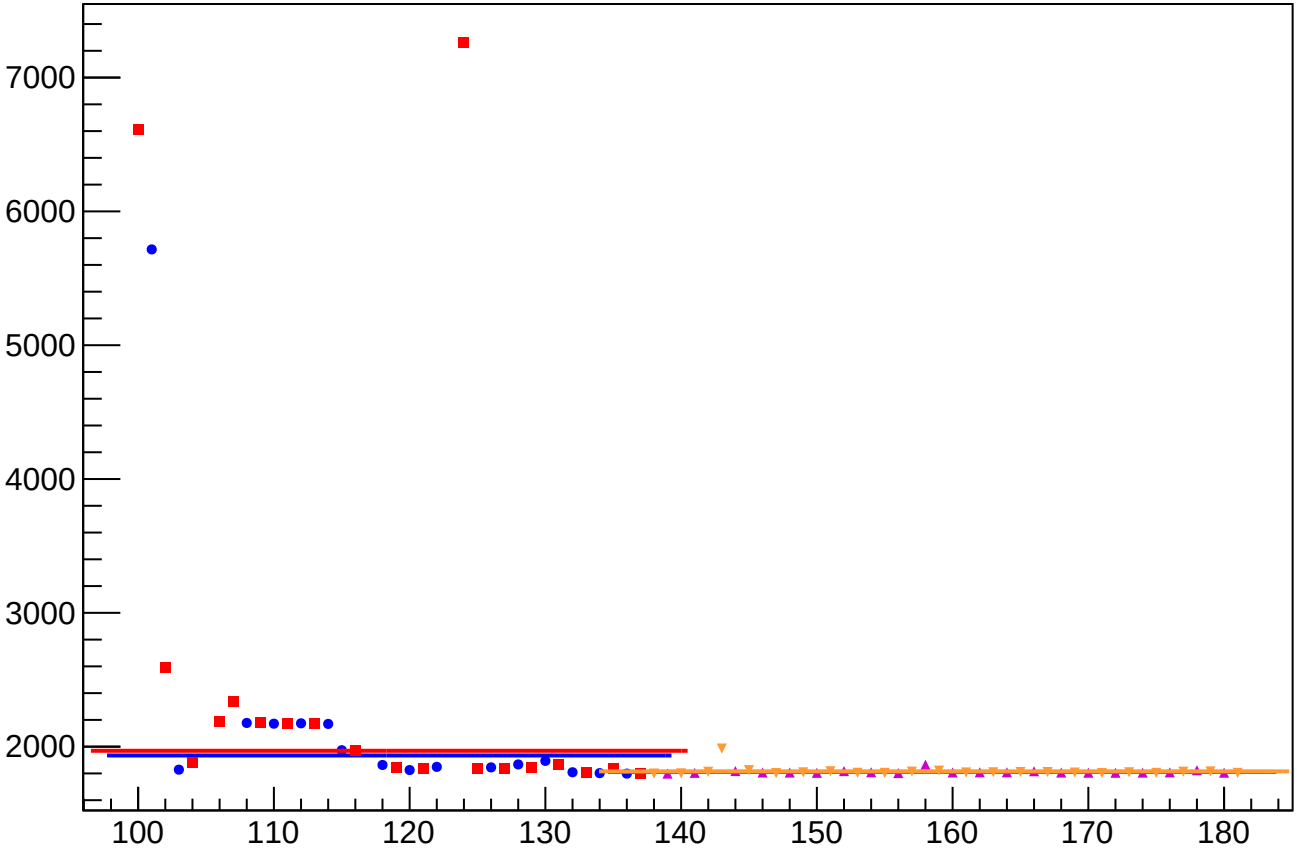
Right: -443.594+/-519.932 $\chi^2$/NDF: 33.3/34

In: -302.639+/-374.999 $\chi^2$/NDF:44.9/36

Out: -599.804+/-367.365 $\chi^2$/NDF:37.8/41

All: -454.277+/-262.424 $\chi^2$/NDF: 83.0/78

# reg_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639920.0/15

Left Out: 1815.370+/-0.300 $\chi^2$/NDF:12925.5/22

Right Out: 1969.204+/-0.520 $\chi^2$/NDF: 378378.8/18

Left In: 1811.078+/-0.308 $\chi^2$/NDF:1899.7/20

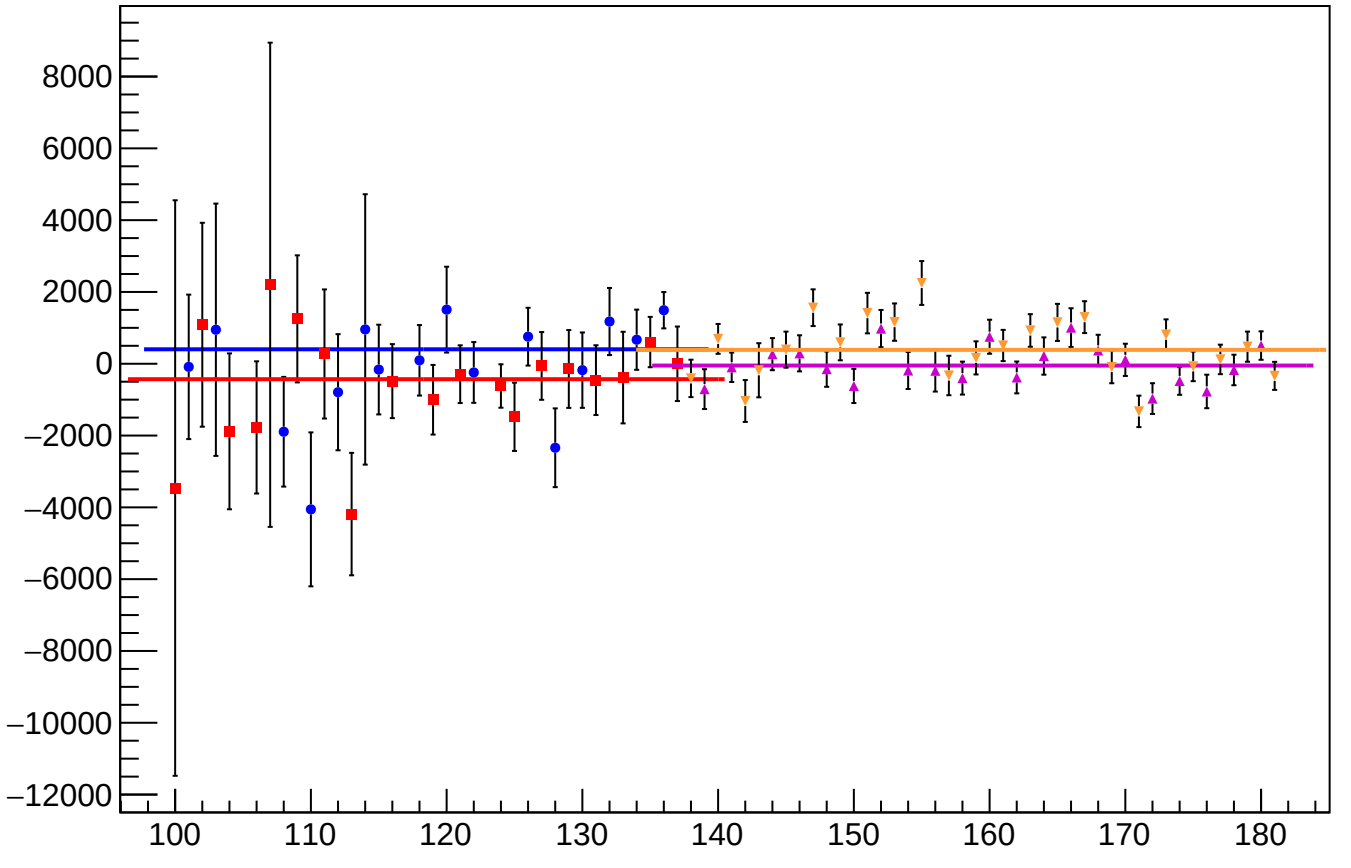
Left: 1813.283+/-0.215 $\chi^2$/NDF: 14924.8/43

Right: 1951.702+/-0.368 $\chi^2$/NDF: 1020563.0/34

In: 1843.122+/-0.265 $\chi^2$/NDF:683335.4/36

Out: 1853.750+/-0.260 $\chi^2$/NDF:456972.4/41

All: 1848.545+/-0.186 $\chi^2$/NDF: 1141127.6/78




Right In: 402.626+/-258.574 $\chi^2$/NDF: 21.1/15

Left Out: 386.770+/-98.970 $\chi^2$/NDF:62.0/22

Right Out: -430.066+/-252.823 $\chi^2$/NDF: 11.7/18

Left In: -50.249+/-101.294 $\chi^2$/NDF:27.4/20

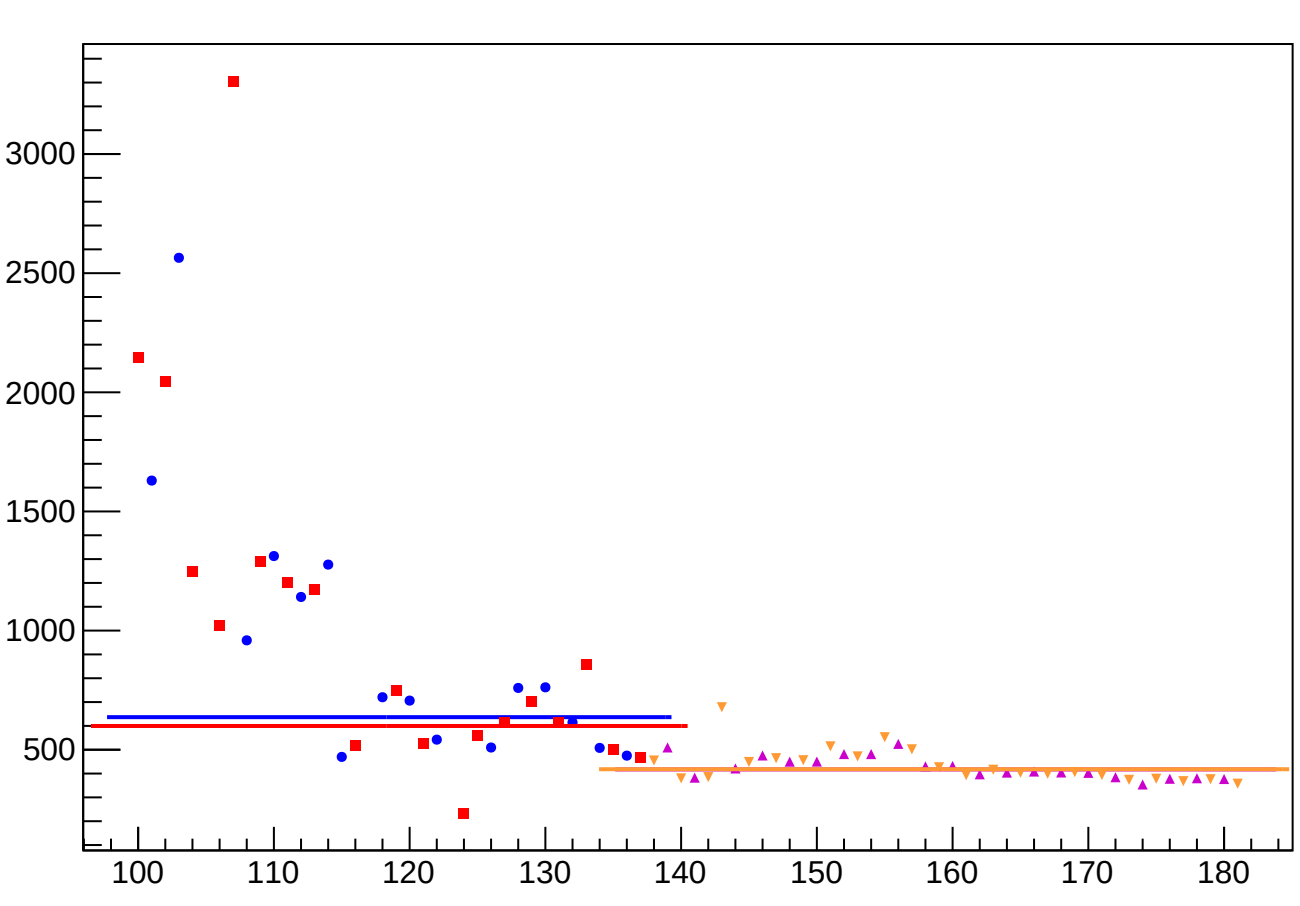
Left: 173.332+/-70.790 $\chi^2$/NDF: 99.0/43

Right: -23.083+/-180.772 $\chi^2$/NDF: 38.2/34

In: 10.003+/-94.316 $\chi^2$/NDF:51.2/36

Out: 278.231+/-92.160 $\chi^2$/NDF:82.8/41

All: 147.217+/-65.916 $\chi^2$/NDF: 138.1/78




Right In: 636.700+/-0.183 $\chi^2$/NDF: 2066891.4/15

Left Out: 418.161+/-0.070 $\chi^2$/NDF:687639.2/22

Right Out: 599.631+/-0.179 $\chi^2$/NDF: 2944100.6/18

Left In: 417.215+/-0.072 $\chi^2$/NDF:373905.3/20

Left: 417.699+/-0.050 $\chi^2$/NDF: 1061633.5/43

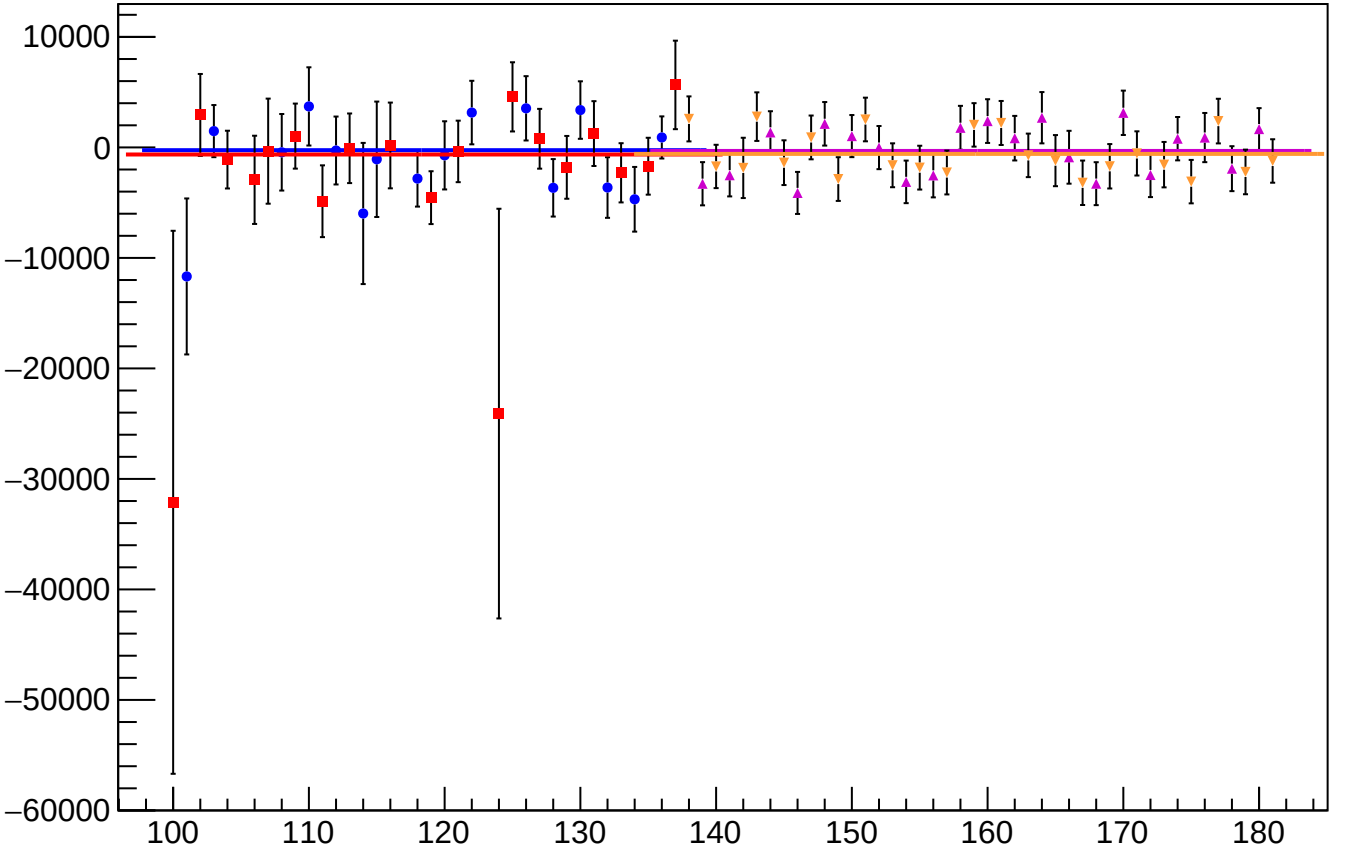
Right: 617.749+/-0.128 $\chi^2$/NDF: 5032005.8/34

In: 446.417+/-0.067 $\chi^2$/NDF:3690090.9/36

Out: 442.274+/-0.065 $\chi^2$/NDF:4525226.4/41

All: 444.297+/-0.047 $\chi^2$/NDF: 8217291.1/78

# cor_asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -250.487+/-735.112 $\chi^2$/NDF: 17.2/15

Left Out: -587.754+/-424.053 $\chi^2$/NDF:21.8/22

Right Out: -640.865+/-736.549 $\chi^2$/NDF: 16.0/18

Left In: -320.701+/-435.995 $\chi^2$/NDF:27.6/20

Left: -457.935+/-303.985 $\chi^2$/NDF: 49.7/43

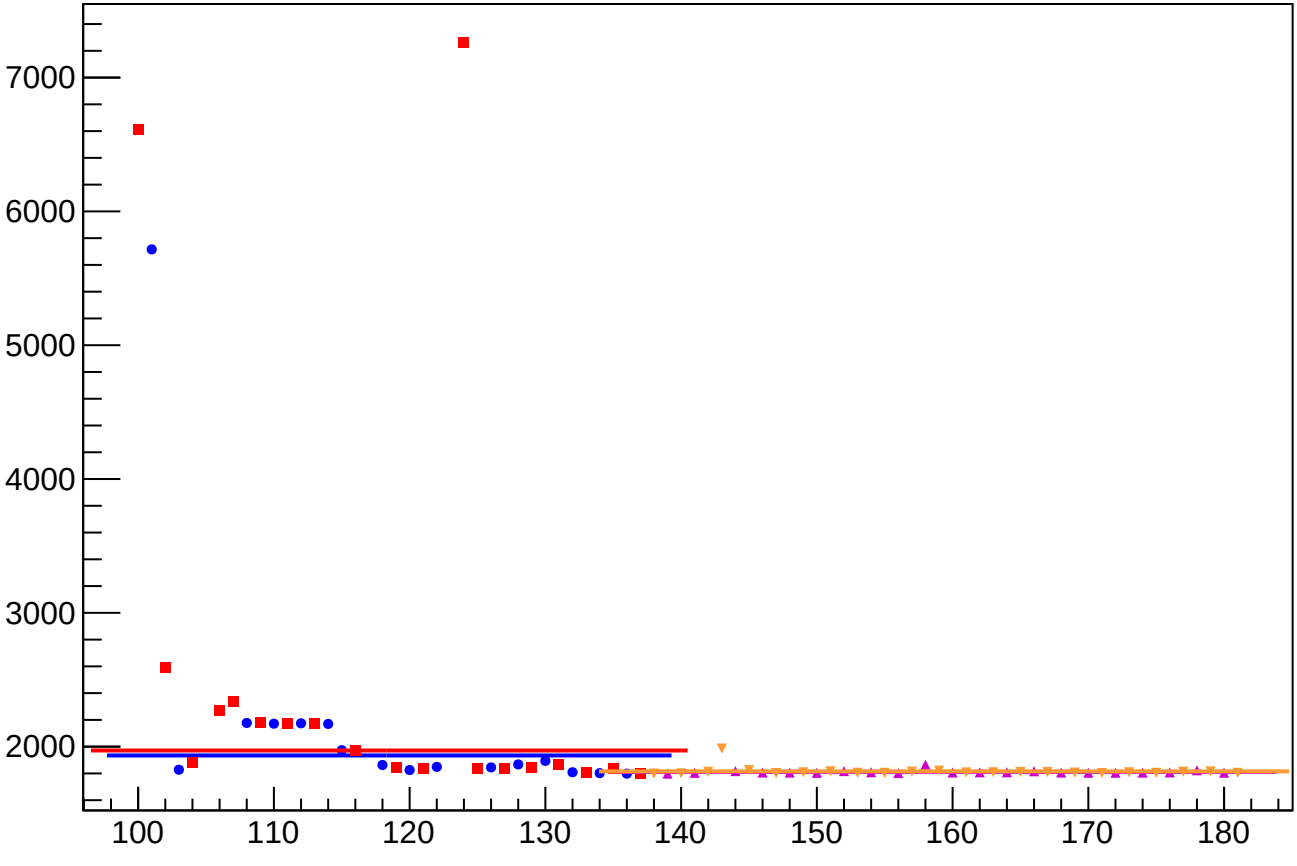
Right: -445.295+/-520.310 $\chi^2$/NDF: 33.3/34

In: -302.430+/-374.999 $\chi^2$/NDF:44.9/36

Out: -600.976+/-367.498 $\chi^2$/NDF:37.8/41

All: -454.718+/-262.472 $\chi^2$/NDF: 83.0/78

# cor_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639919.9/15

Left Out: 1815.370+/-0.300 $\chi^2$/NDF:12925.5/22

Right Out: 1971.357+/-0.521 $\chi^2$/NDF: 383176.6/18

Left In: 1811.078+/-0.308 $\chi^2$/NDF:1899.7/20

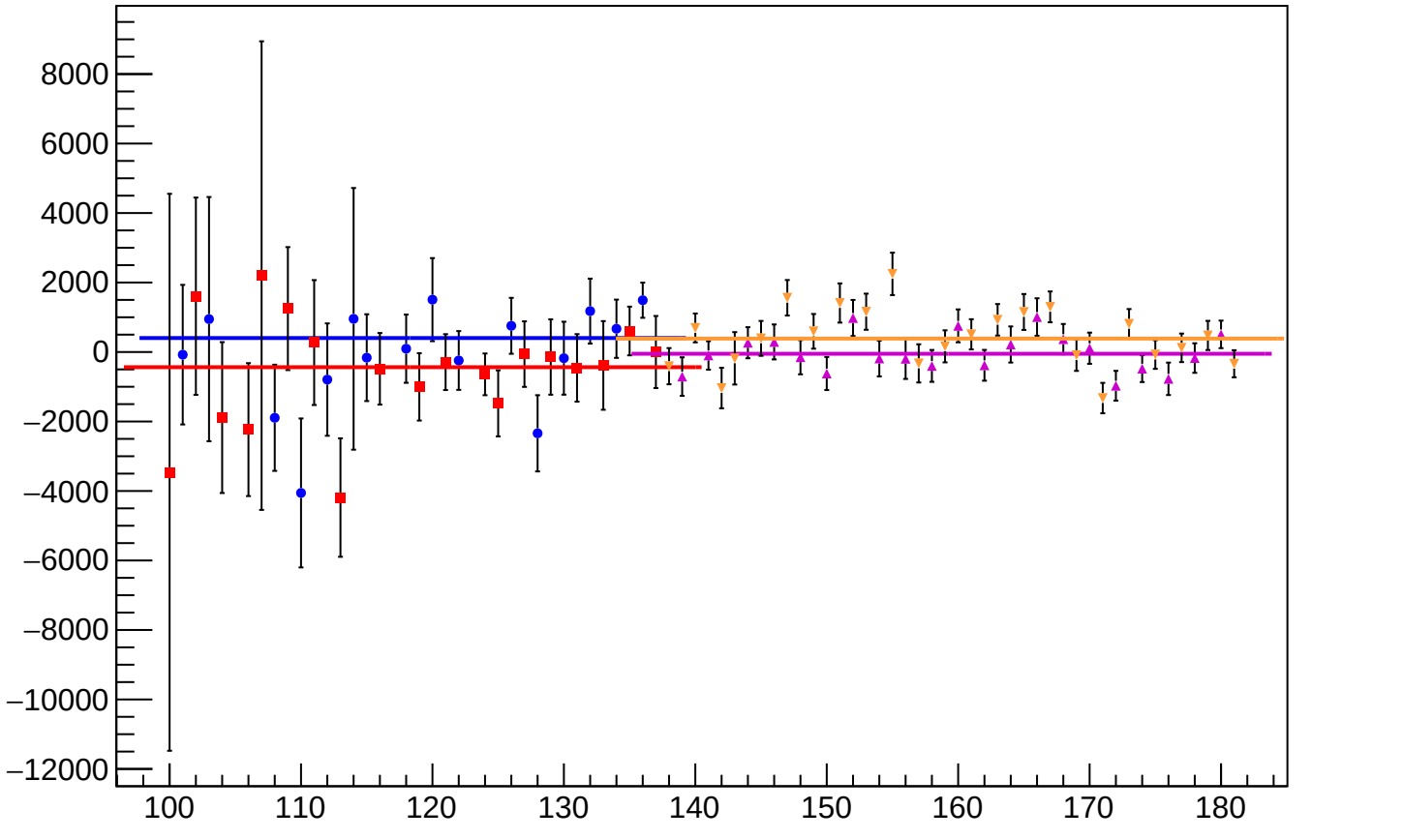
Left: 1813.283+/-0.215 $\chi^2$/NDF: 14924.8/43

Right: 1952.750+/-0.368 $\chi^2$/NDF: 1025644.1/34

In: 1843.122+/-0.265 $\chi^2$/NDF:683335.3/36

Out: 1854.202+/-0.260 $\chi^2$/NDF:463473.5/41

All: 1848.774+/-0.186 $\chi^2$/NDF: 1147699.5/78




Right In: 402.701+/-258.564 $\chi^2$/NDF: 21.1/15

Left Out: 386.758+/-98.970 $\chi^2$/NDF:62.0/22

Right Out: -436.691+/-252.672 $\chi^2$/NDF: 12.4/18

Left In: -50.229+/-101.293 $\chi^2$/NDF:27.4/20

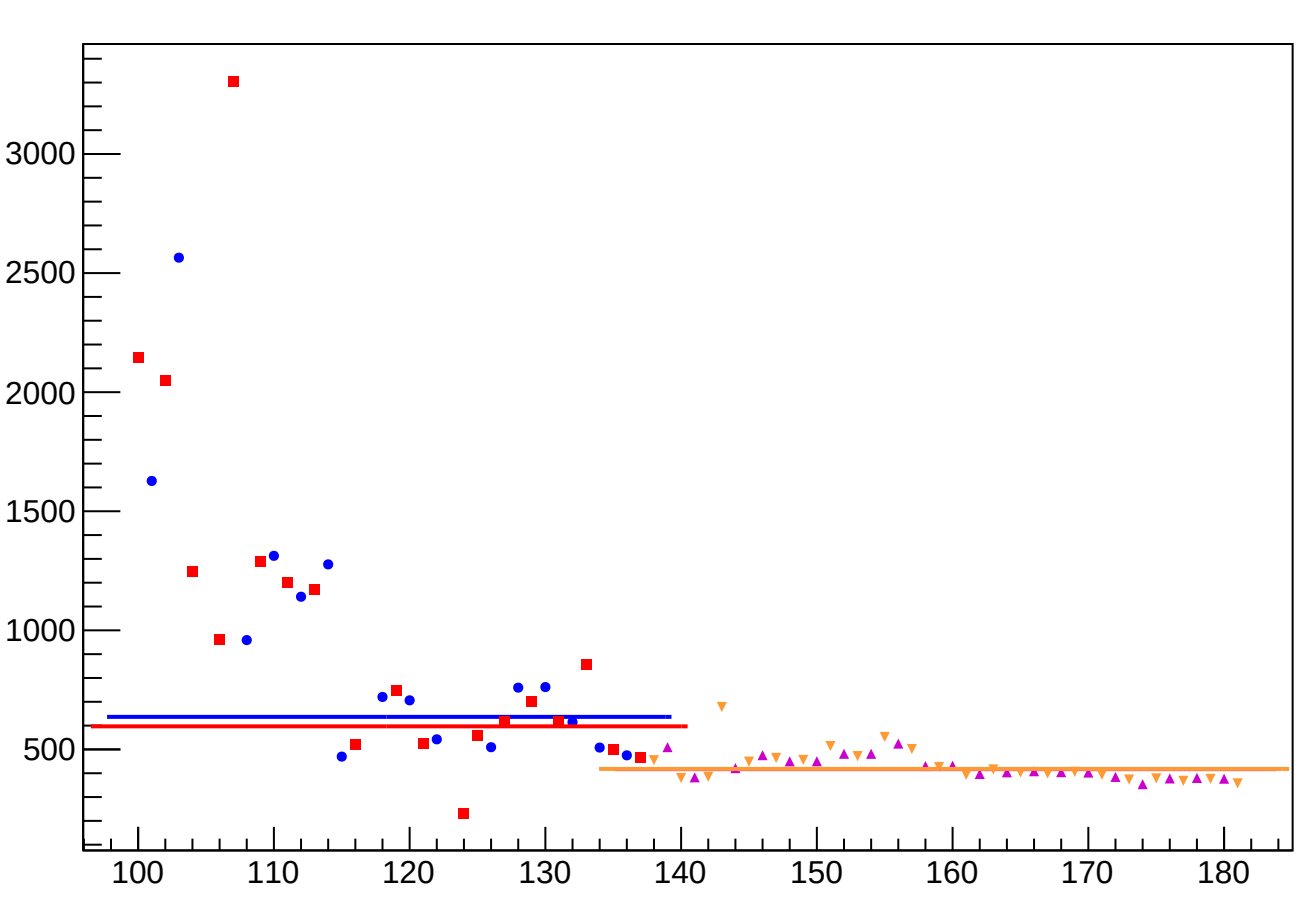
Left: 173.333+/-70.790 $\chi^2$/NDF: 99.0/43

Right: -26.666+/-180.713 $\chi^2$/NDF: 38.9/34

In: 10.035+/-94.314 $\chi^2$/NDF:51.2/36

Out: 277.226+/-92.153 $\chi^2$/NDF:83.6/41

All: 146.726+/-65.913 $\chi^2$/NDF: 138.9/78




Right In: 636.698+/-0.183 $\chi^2$/NDF: 2066022.1/15

Left Out: 418.163+/-0.070 $\chi^2$/NDF:687552.8/22

Right Out: 596.862+/-0.179 $\chi^2$/NDF: 2930443.7/18

Left In: 417.211+/-0.072 $\chi^2$/NDF:373934.5/20

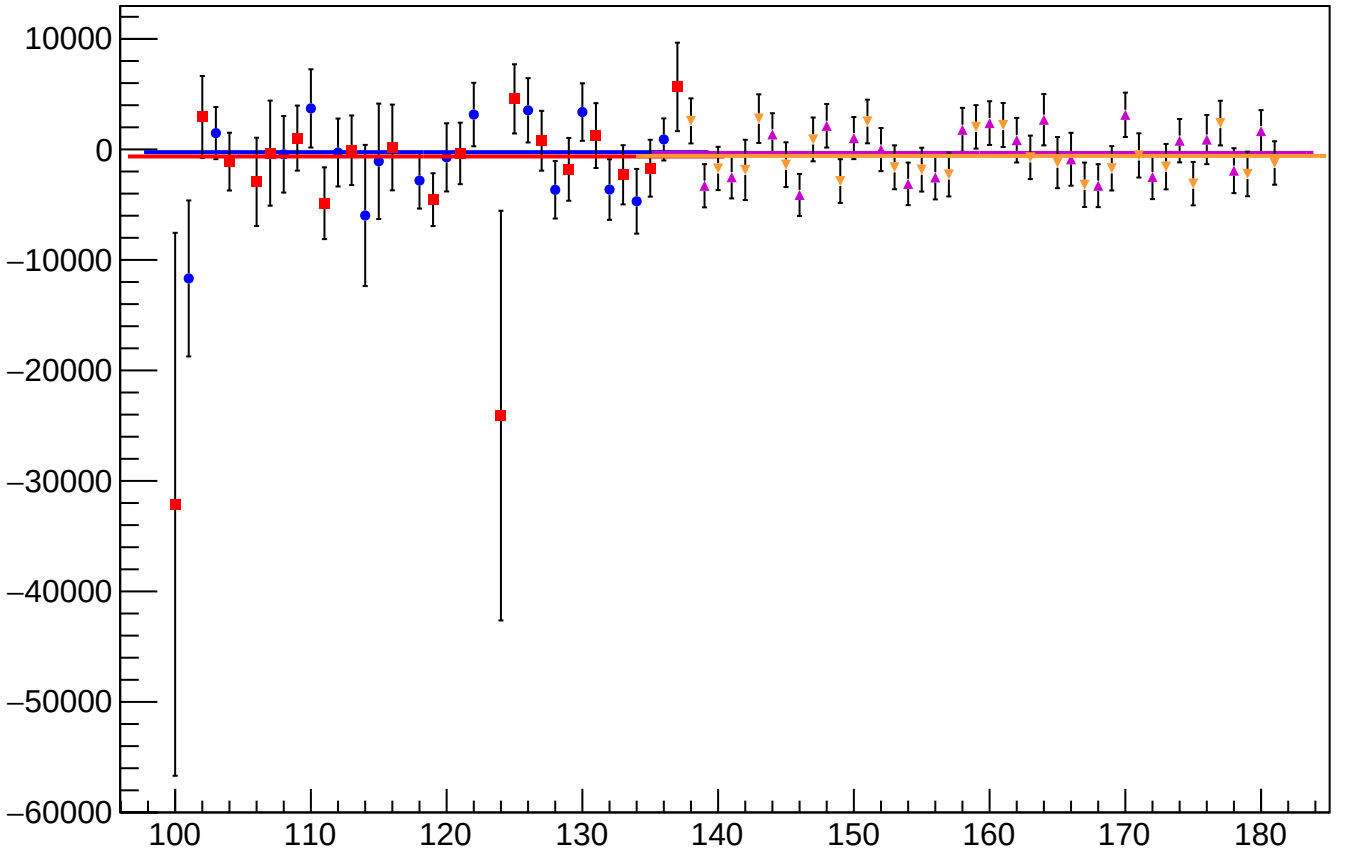
Left: 417.698+/-0.050 $\chi^2$/NDF: 1061577.7/43

Right: 616.321+/-0.128 $\chi^2$/NDF: 5020749.4/34

In: 446.414+/-0.067 $\chi^2$/NDF:3689370.1/36

Out: 441.933+/-0.065 $\chi^2$/NDF:4485293.9/41

All: 444.122+/-0.047 $\chi^2$/NDF: 8176973.8/78




Right In: -250.487+/-735.112 $\chi^2$/NDF: 17.2/15

Left Out: -587.754+/-424.053 $\chi^2$/NDF:21.8/22

Right Out: -640.865+/-736.549 $\chi^2$/NDF: 16.0/18

Left In: -320.701+/-435.995 $\chi^2$/NDF:27.6/20

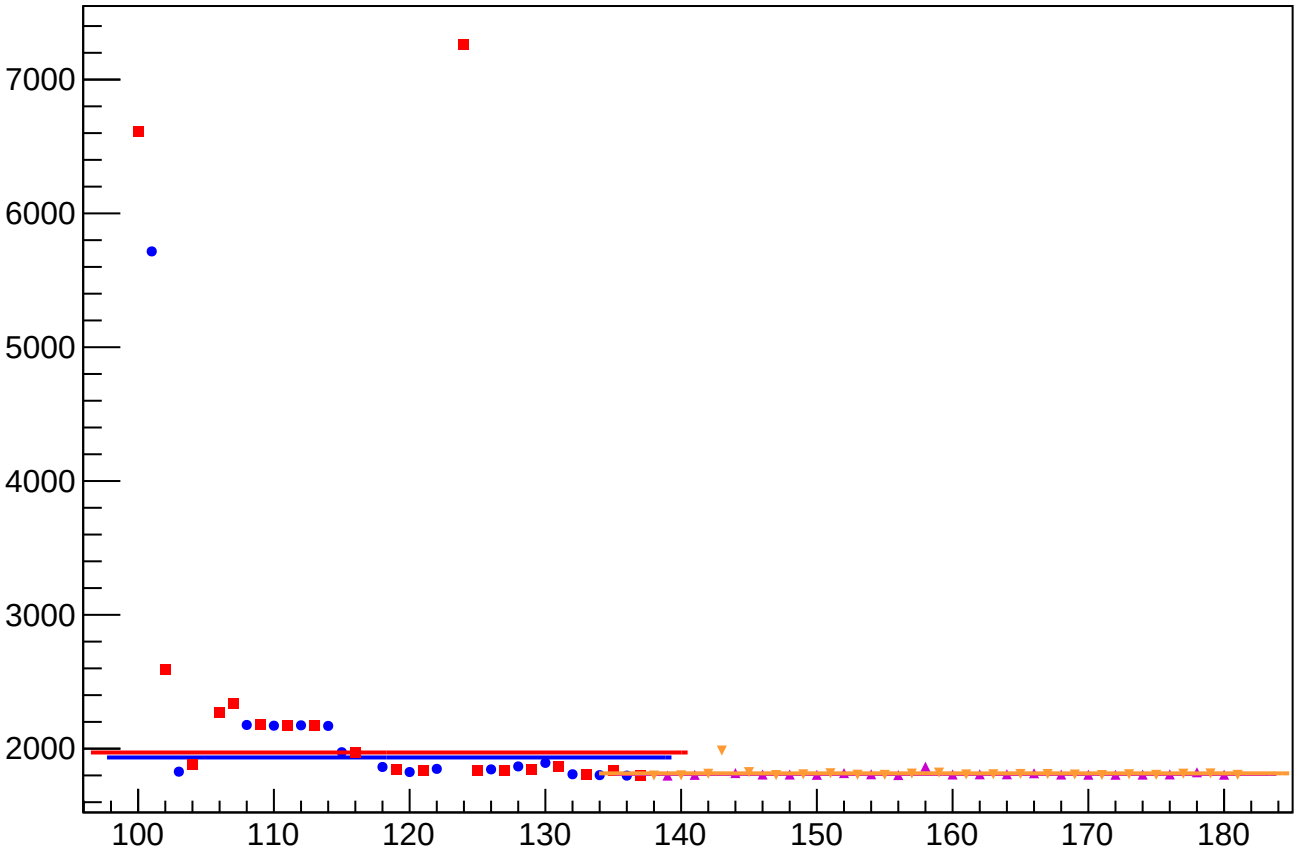
Left: -457.935+/-303.985 $\chi^2$/NDF: 49.7/43

Right: -445.295+/-520.310 $\chi^2$/NDF: 33.3/34

In: -302.430+/-374.999 $\chi^2$/NDF:44.9/36

Out: -600.976+/-367.498 $\chi^2$/NDF:37.8/41

All: -454.718+/-262.472 $\chi^2$/NDF: 83.0/78




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639919.9/15

Left Out: 1815.370+/-0.300 $\chi^2$/NDF:12925.5/22

Right Out: 1971.357+/-0.521 $\chi^2$/NDF: 383176.6/18

Left In: 1811.078+/-0.308 $\chi^2$/NDF:1899.7/20

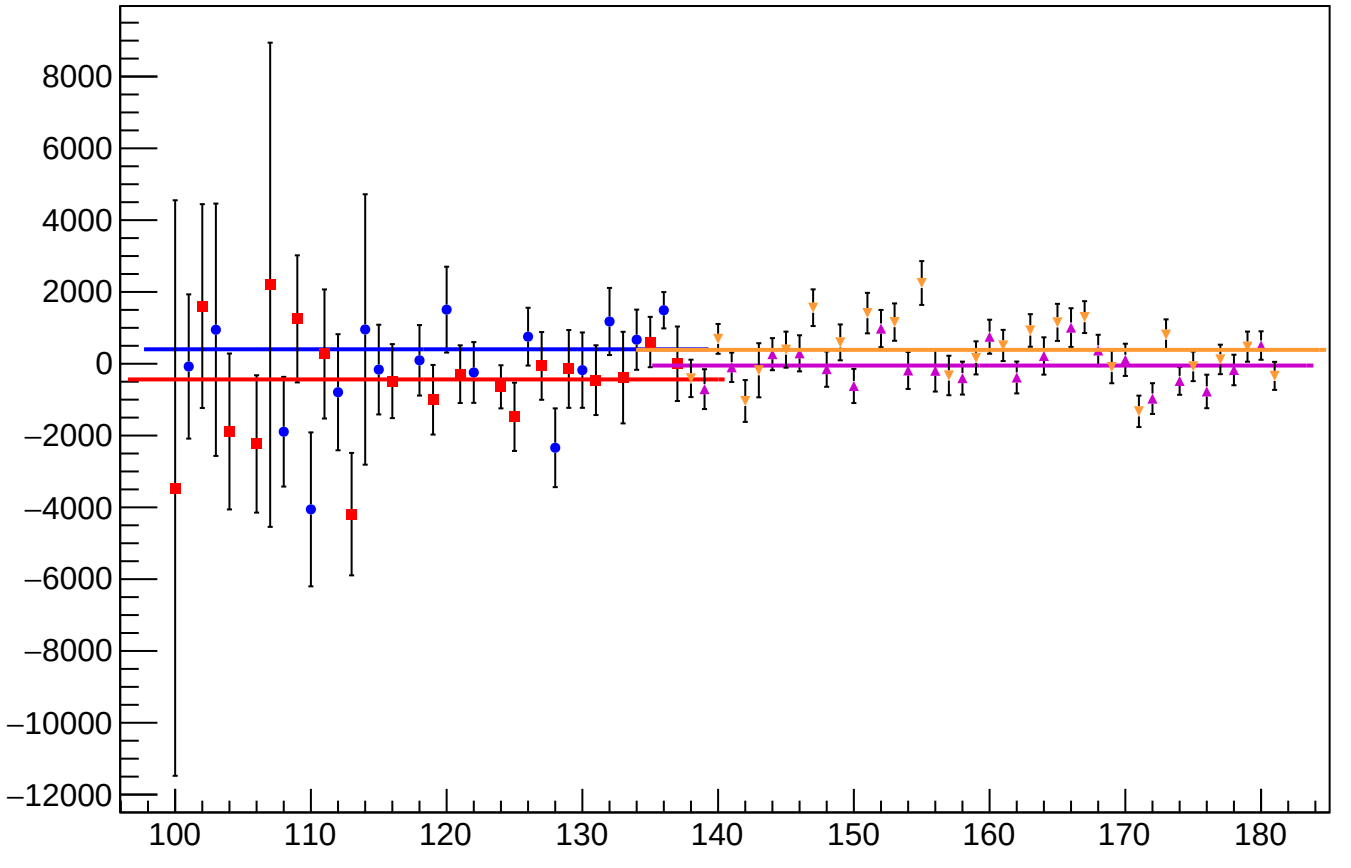
Left: 1813.283+/-0.215 $\chi^2$/NDF: 14924.8/43

Right: 1952.750+/-0.368 $\chi^2$/NDF: 1025644.1/34

In: 1843.122+/-0.265 $\chi^2$/NDF:683335.3/36

Out: 1854.202+/-0.260 $\chi^2$/NDF:463473.5/41

All: 1848.774+/-0.186 $\chi^2$/NDF: 1147699.5/78




Right In: 402.701+/-258.564 $\chi^2$/NDF: 21.1/15

Left Out: 386.758+/-98.970 $\chi^2$/NDF:62.0/22

Right Out: -436.691+/-252.672 $\chi^2$/NDF: 12.4/18

Left In: -50.229+/-101.293 $\chi^2$/NDF:27.4/20

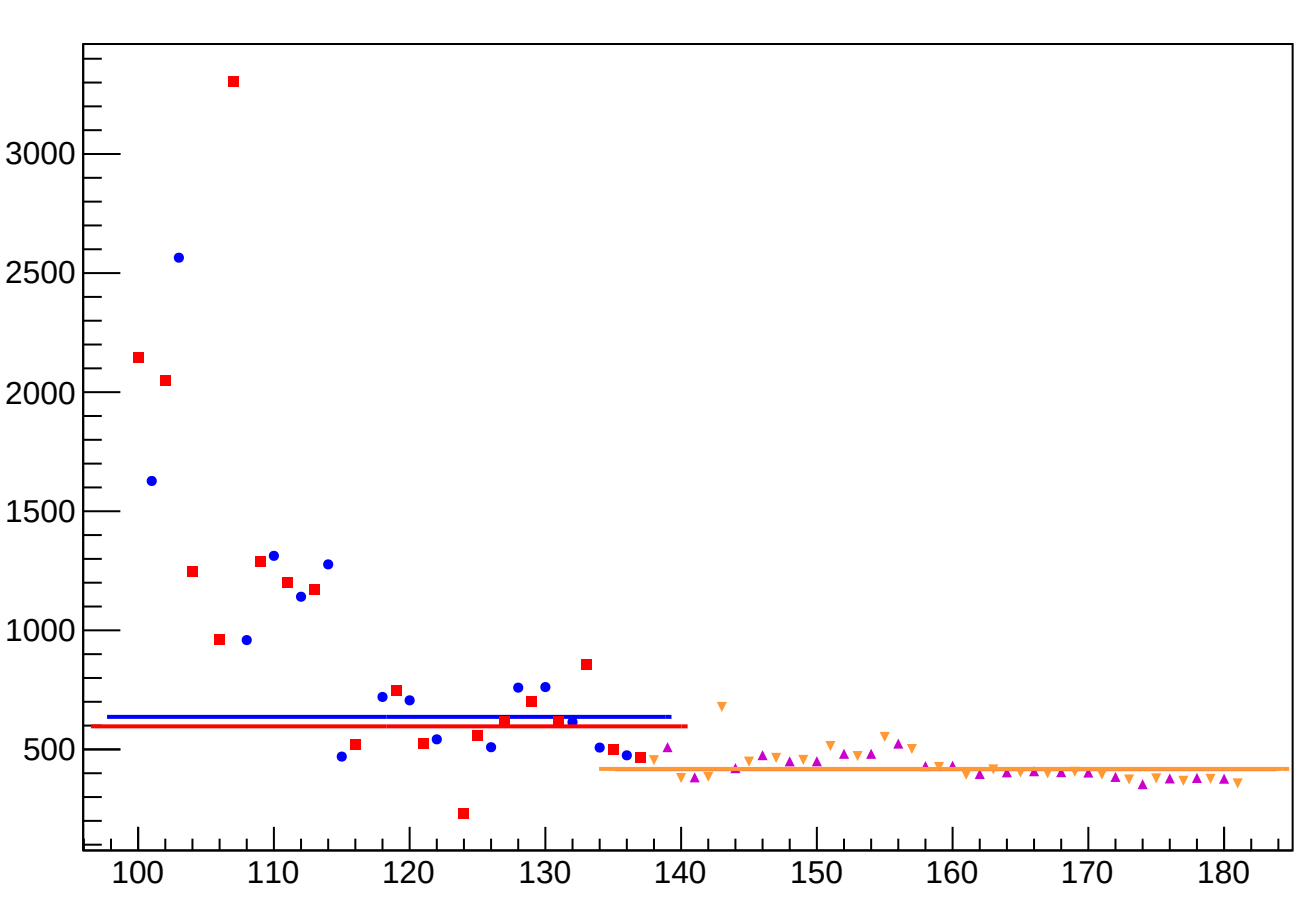
Left: 173.333+/-70.790 $\chi^2$/NDF: 99.0/43

Right: -26.666+/-180.713 $\chi^2$/NDF: 38.9/34

In: 10.035+/-94.314 $\chi^2$/NDF:51.2/36

Out: 277.226+/-92.153 $\chi^2$/NDF:83.6/41

All: 146.726+/-65.913 $\chi^2$/NDF: 138.9/78




Right In: 636.698+/-0.183 $\chi^2$/NDF: 2066022.1/15

Left Out: 418.163+/-0.070 $\chi^2$/NDF:687552.8/22

Right Out: 596.862+/-0.179 $\chi^2$/NDF: 2930443.7/18

Left In: 417.211+/-0.072 $\chi^2$/NDF:373934.5/20

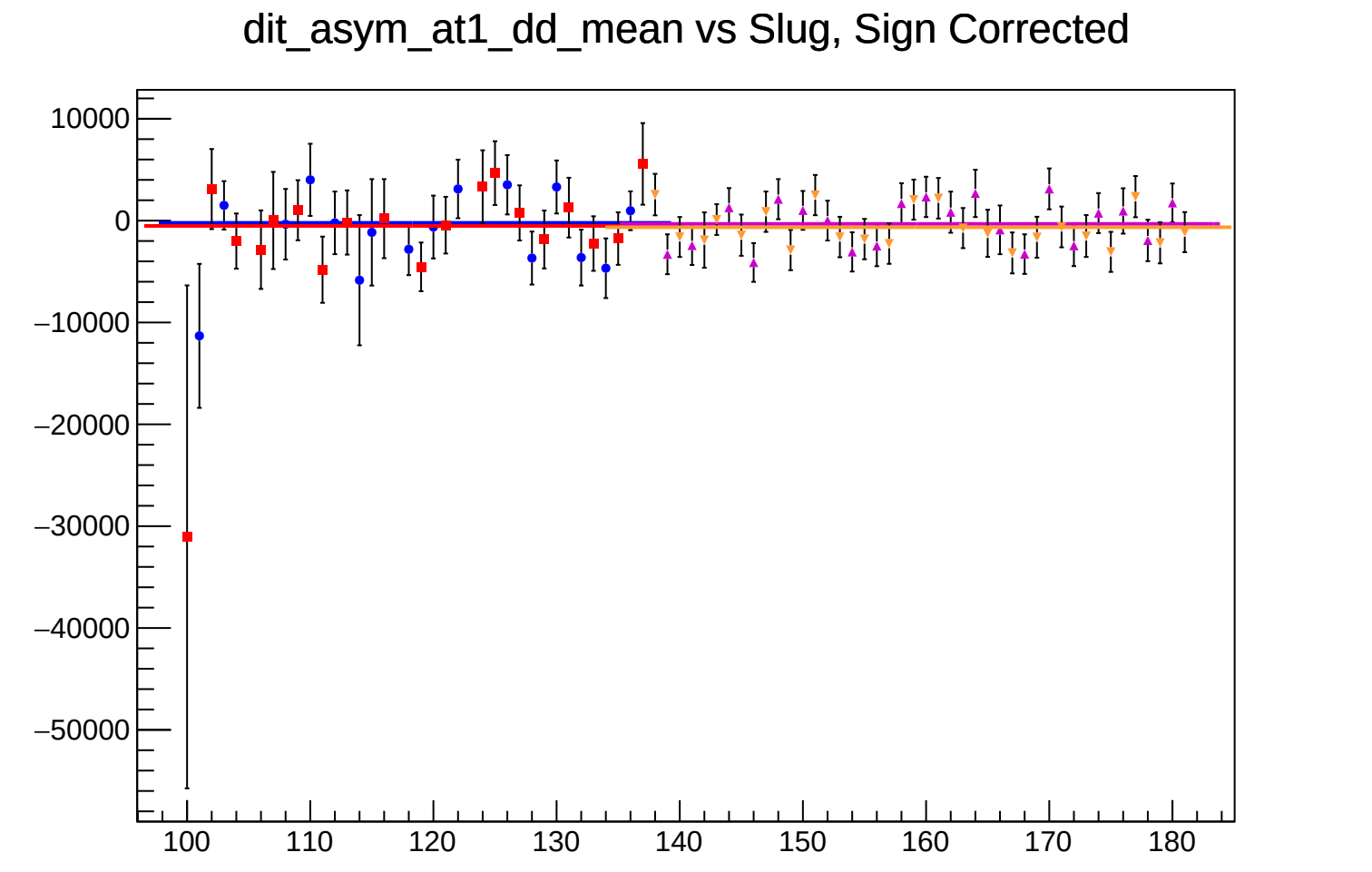
Left: 417.698+/-0.050 $\chi^2$/NDF: 1061577.7/43

Right: 616.321+/-0.128 $\chi^2$/NDF: 5020749.4/34

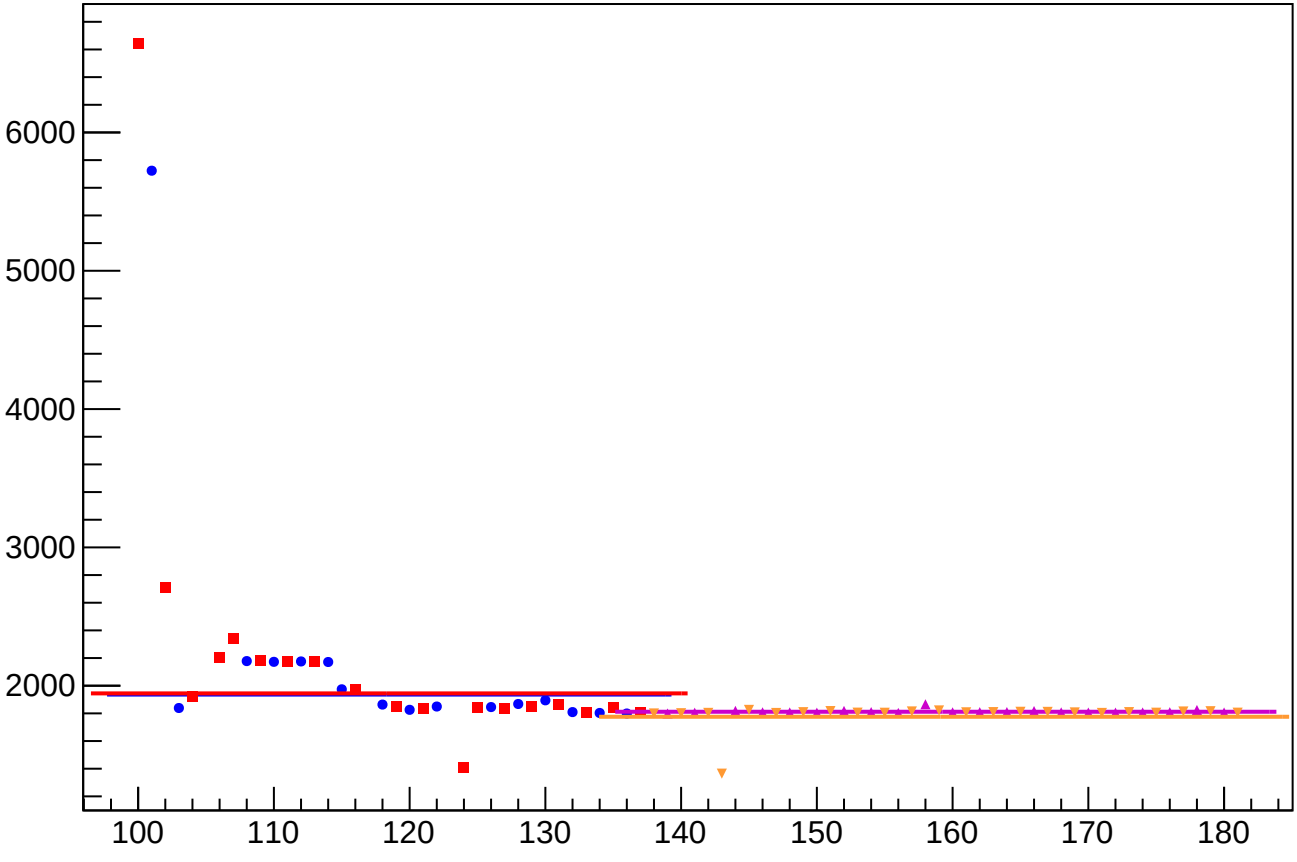
In: 446.414+/-0.067 $\chi^2$/NDF:3689370.1/36

Out: 441.933+/-0.065 $\chi^2$/NDF:4485293.9/41

All: 444.122+/-0.047 $\chi^2$/NDF: 8176973.8/78


dit_asym_at1_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
110
120
130
140
150
160
170
180
Right In: -220.393+/-735.888 χ²/NDF: 17.1/15
Left Out: -649.060+/-415.579 χ²/NDF:19.3/22
Right Out: -520.265+/-724.980 χ²/NDF: 15.6/18
Left In: -321.775+/-436.148 χ²/NDF:27.2/20
Left: -493.317+/-300.867 χ²/NDF: 46.8/43
Right: -372.568+/-516.452 χ²/NDF: 32.8/34
In: -295.420+/-375.200 χ²/NDF:44.3/36
Out: -617.206+/-360.544 χ²/NDF:35.0/41
All: -462.721+/-259.970 χ²/NDF: 79.6/78

# dit_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1935.974+/-0.520 $\chi^2$/NDF: 639808.0/15

Left Out: 1775.471+/-0.294 $\chi^2$/NDF:160953.2/22

Right Out: 1944.495+/-0.513 $\chi^2$/NDF: 276223.6/18

Left In: 1811.712+/-0.308 $\chi^2$/NDF:1895.8/20

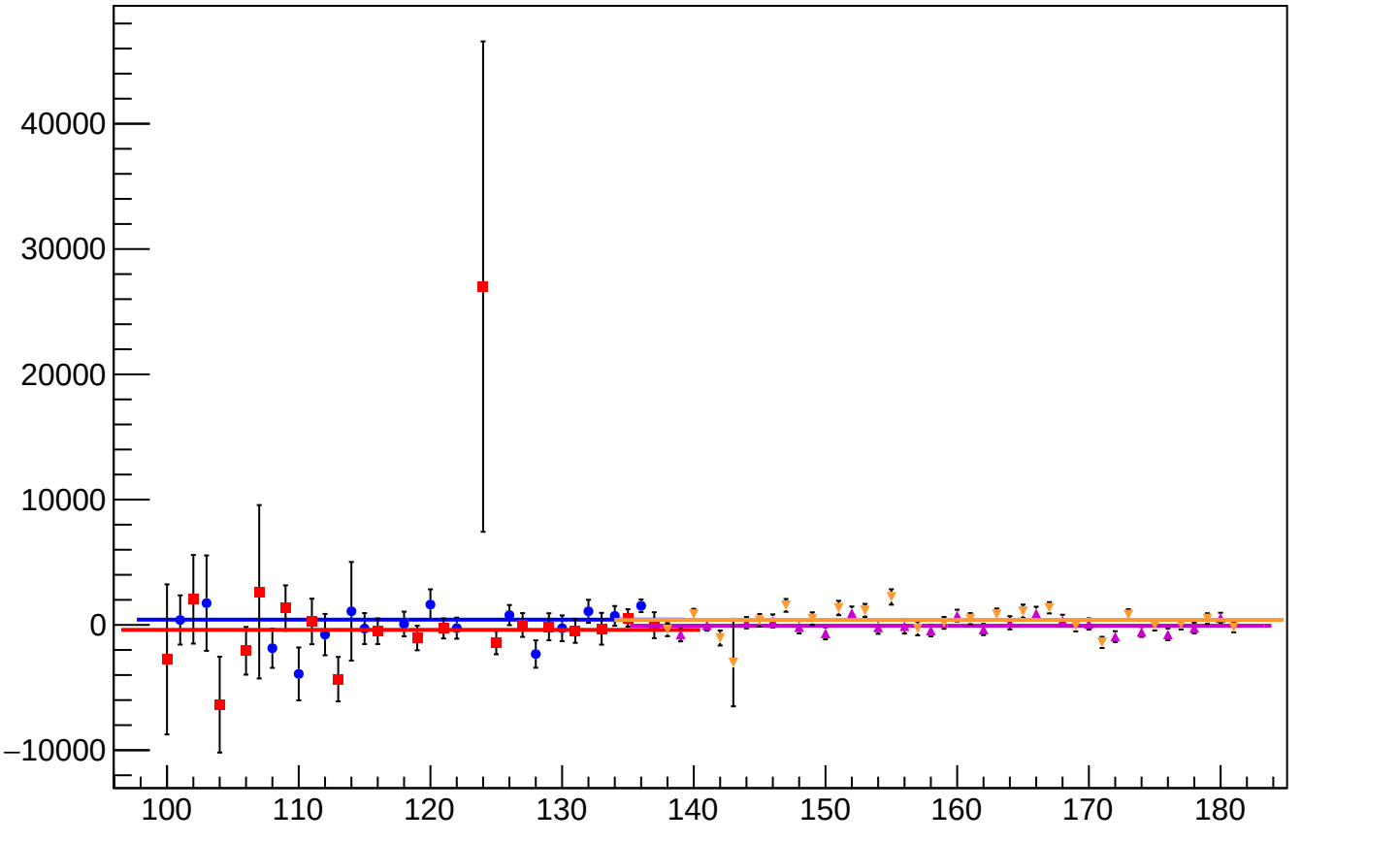
Left: 1792.717+/-0.213 $\chi^2$/NDF: 170087.0/43

Right: 1940.298+/-0.365 $\chi^2$/NDF: 916167.7/34

In: 1844.015+/-0.265 $\chi^2$/NDF:683906.4/36

Out: 1817.275+/-0.255 $\chi^2$/NDF:519001.4/41

All: 1830.112+/-0.184 $\chi^2$/NDF: 1208189.6/78




Right In: 421.145+/-256.749 $\chi^2$/NDF: 21.5/15

Left Out: 404.387+/-101.135 $\chi^2$/NDF:60.3/22

Right Out: -393.590+/-279.562 $\chi^2$/NDF: 15.9/18

Left In: -63.958+/-102.661 $\chi^2$/NDF:26.6/20

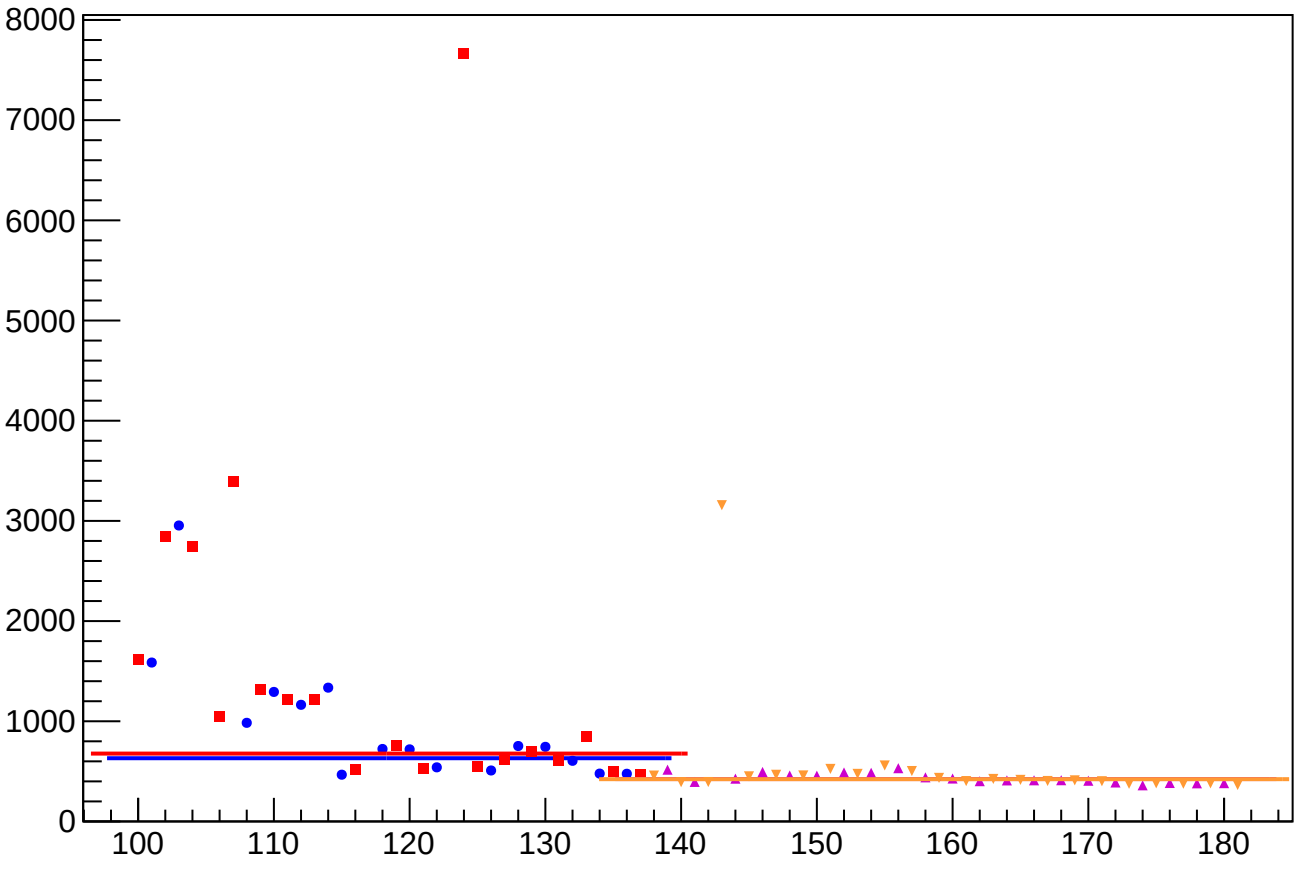
Left: 173.720+/-72.047 $\chi^2$/NDF: 97.4/43

Right: 48.371+/-189.101 $\chi^2$/NDF: 41.9/34

In: 2.909+/-95.323 $\chi^2$/NDF:51.2/36

Out: 312.039+/-95.104 $\chi^2$/NDF:83.3/41

All: 157.831+/-67.326 $\chi^2$/NDF: 139.8/78




Right In: 631.140+/-0.182 $\chi^2$/NDF: 2234480.1/15

Left Out: 422.054+/-0.072 $\chi^2$/NDF:1650818.9/22

Right Out: 677.438+/-0.198 $\chi^2$/NDF: 3081569.8/18

Left In: 423.263+/-0.073 $\chi^2$/NDF:380600.3/20

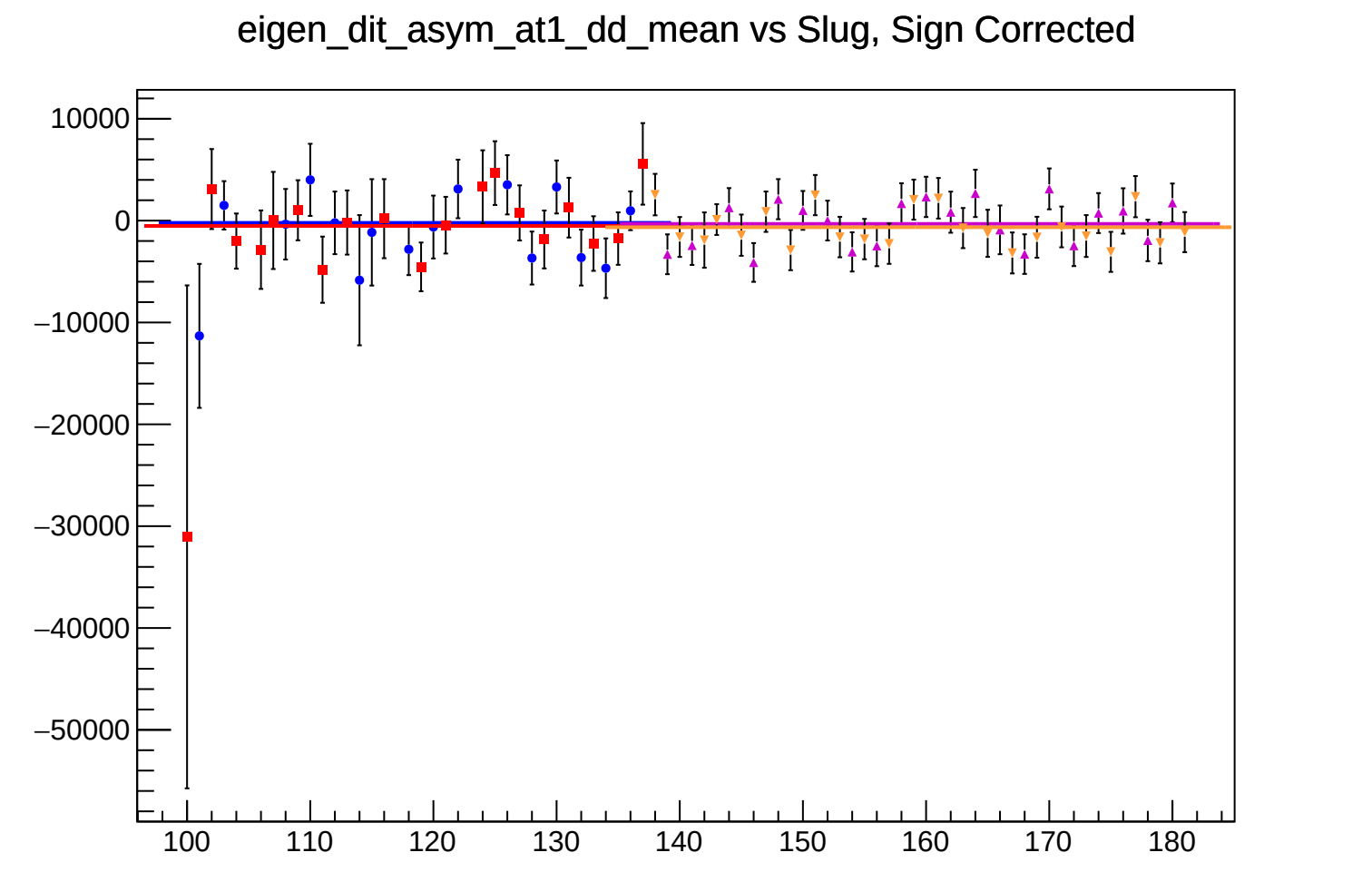
Left: 422.649+/-0.051 $\chi^2$/NDF: 2031559.9/43

Right: 652.323+/-0.134 $\chi^2$/NDF: 5345805.1/34

In: 451.917+/-0.067 $\chi^2$/NDF:3745426.5/36

Out: 451.609+/-0.067 $\chi^2$/NDF:6208245.2/41

All: 451.763+/-0.048 $\chi^2$/NDF: 9953682.1/78




Right In: -220.393+/-735.888 $\chi^2$/NDF: 17.1/15

Left Out: -649.061+/-415.579 $\chi^2$/NDF:19.3/22

Right Out: -520.265+/-724.980 $\chi^2$/NDF: 15.6/18

Left In: -321.775+/-436.148 $\chi^2$/NDF:27.2/20

Left: -493.317+/-300.867 $\chi^2$/NDF: 46.8/43

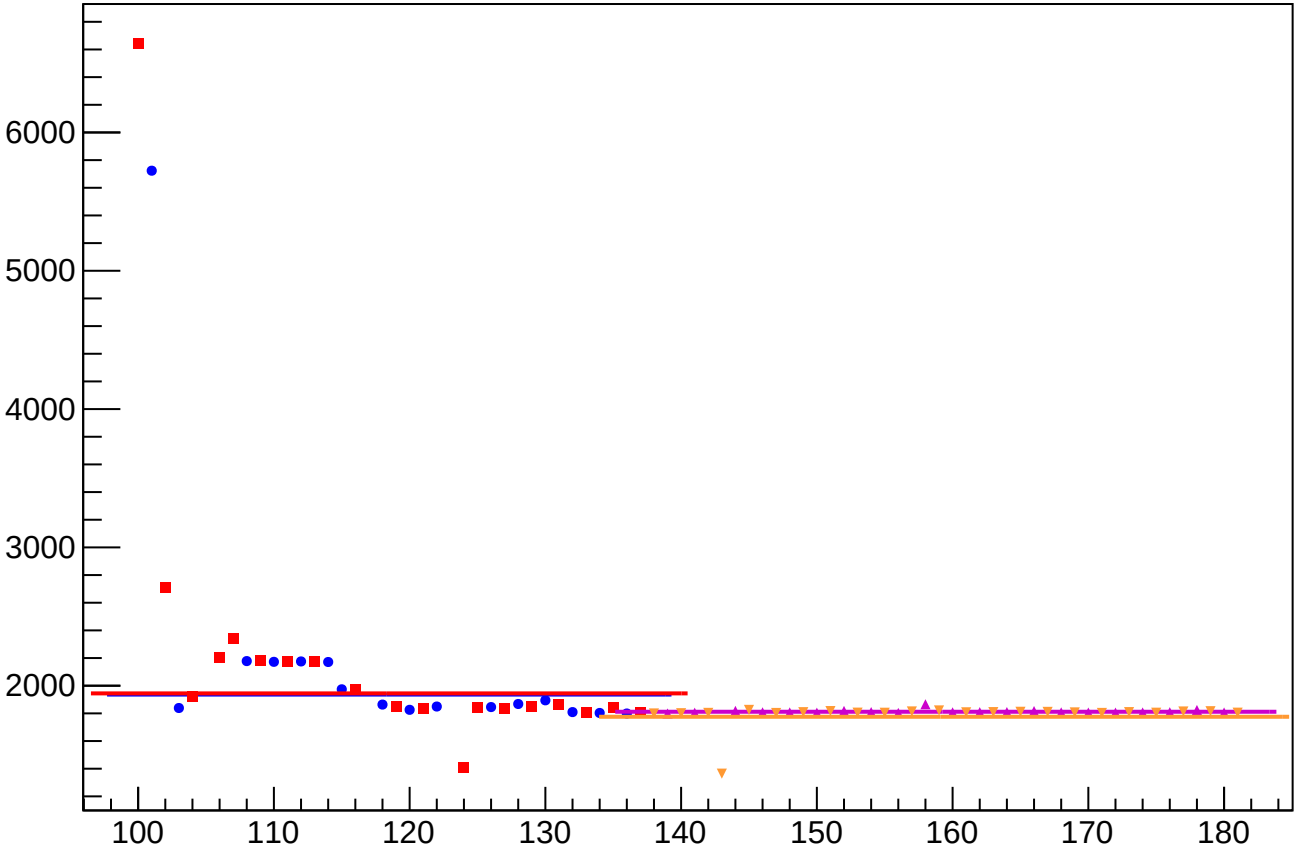
Right: -372.568+/-516.452 $\chi^2$/NDF: 32.8/34

In: -295.420+/-375.200 $\chi^2$/NDF:44.3/36

Out: -617.207+/-360.544 $\chi^2$/NDF:35.0/41

All: -462.721+/-259.970 $\chi^2$/NDF: 79.6/78

# eigen_dit_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1935.974+/-0.520 $\chi^2$/NDF: 639808.0/15

Left Out: 1775.471+/-0.294 $\chi^2$/NDF:160953.2/22

Right Out: 1944.495+/-0.513 $\chi^2$/NDF: 276223.5/18

Left In: 1811.712+/-0.308 $\chi^2$/NDF:1895.8/20

Left: 1792.717+/-0.213 $\chi^2$/NDF: 170087.0/43

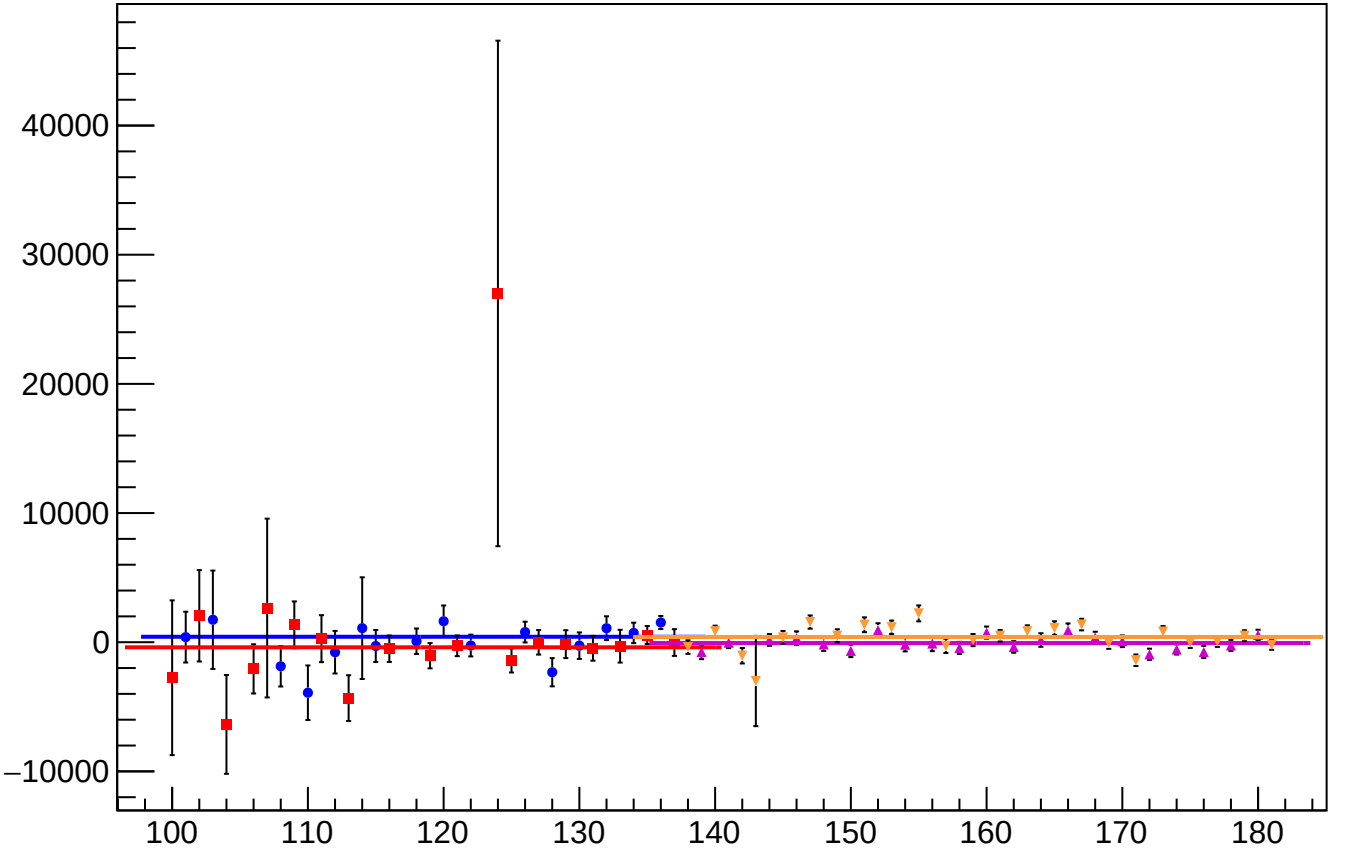
Right: 1940.298+/-0.365 $\chi^2$/NDF: 916167.5/34

In: 1844.015+/-0.265 $\chi^2$/NDF:683906.4/36

Out: 1817.275+/-0.255 $\chi^2$/NDF:519001.2/41

All: 1830.112+/-0.184 $\chi^2$/NDF: 1208189.3/78

asym_at1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 421.144+/-256.749 $\chi^2$/NDF: 21.5/15

Left Out: 404.387+/-101.135 $\chi^2$/NDF:60.3/22

Right Out: -393.591+/-279.562 $\chi^2$/NDF: 15.9/18

Left In: -63.957+/-102.661 $\chi^2$/NDF:26.6/20

Left: 173.720+/-72.047 $\chi^2$/NDF: 97.4/43

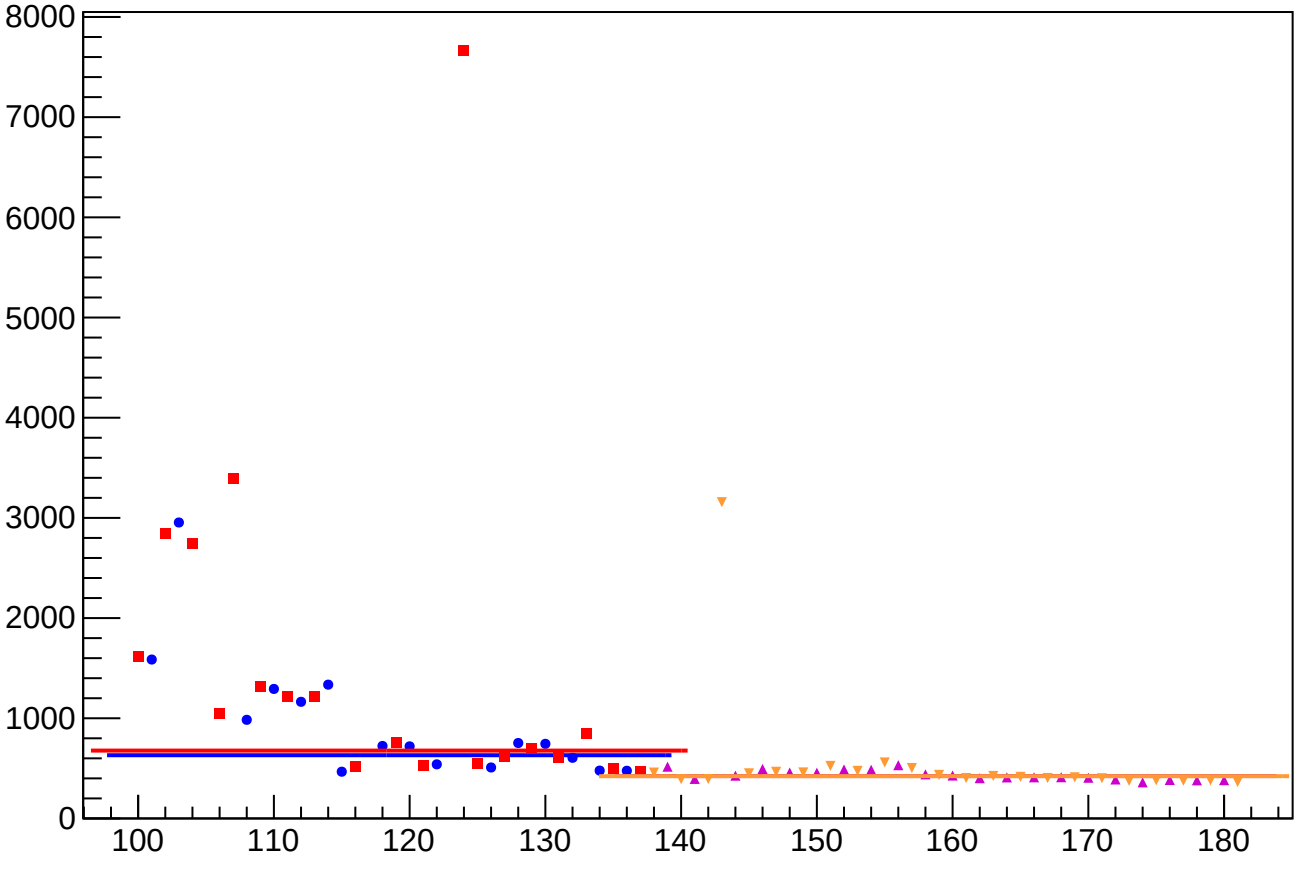
Right: 48.371+/-189.101 $\chi^2$/NDF: 41.9/34

In: 2.909+/-95.323 $\chi^2$/NDF:51.2/36

Out: 312.039+/-95.103 $\chi^2$/NDF:83.3/41

All: 157.831+/-67.326 $\chi^2$/NDF: 139.8/78

asym_at1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 631.139+/-0.182 $\chi^2$/NDF: 2234479.1/15

Left Out: 422.054+/-0.072 $\chi^2$/NDF:1650820.9/22

Right Out: 677.437+/-0.198 $\chi^2$/NDF: 3081570.5/18

Left In: 423.263+/-0.073 $\chi^2$/NDF:380603.4/20

Left: 422.649+/-0.051 $\chi^2$/NDF: 2031565.0/43

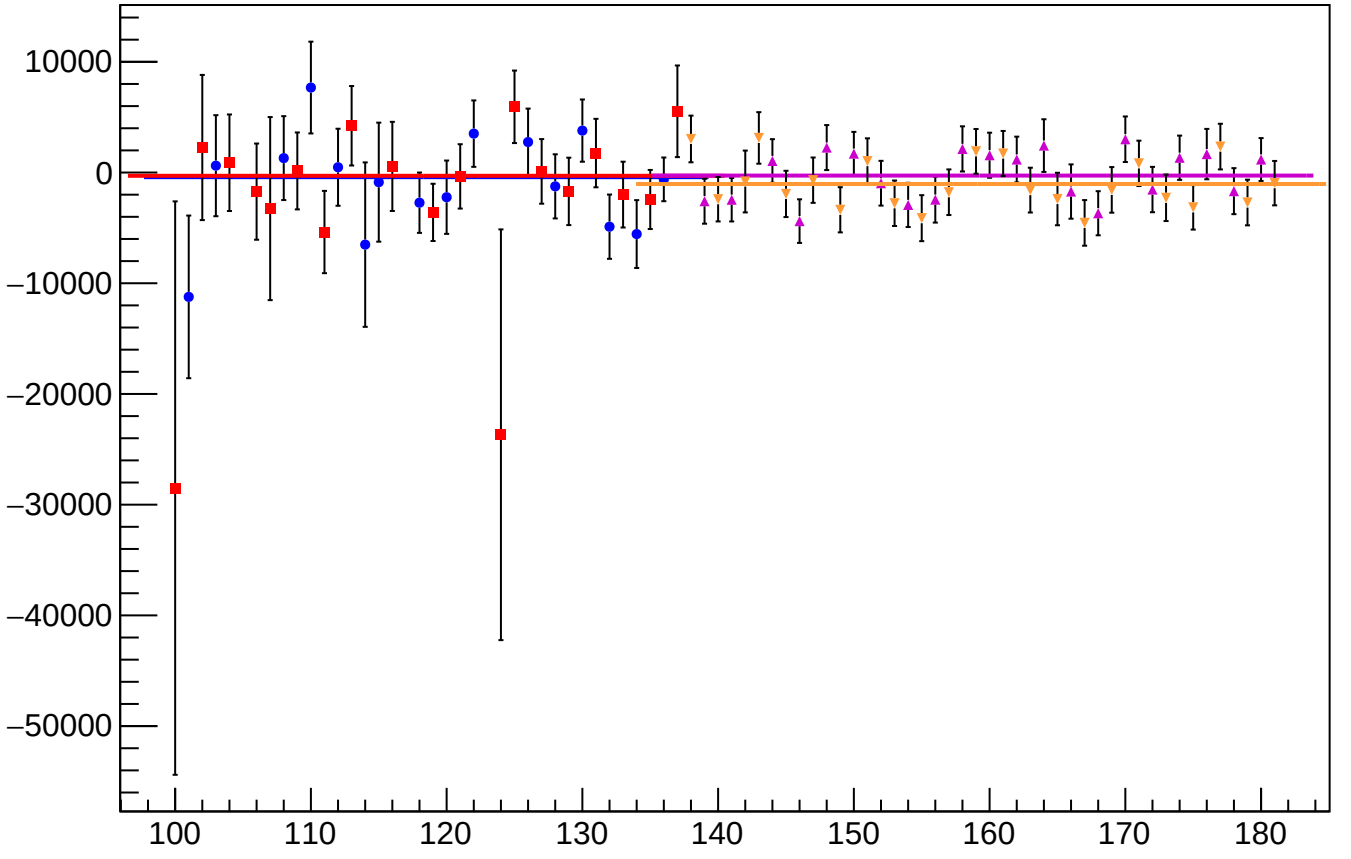
Right: 652.323+/-0.134 $\chi^2$/NDF: 5345804.8/34

In: 451.916+/-0.067 $\chi^2$/NDF:3745429.2/36

Out: 451.609+/-0.067 $\chi^2$/NDF:6208249.6/41

All: 451.762+/-0.048 $\chi^2$/NDF: 9953689.2/78

# asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -417.662+/-815.370 $\chi^2$/NDF: 18.3/15

Left Out: -1037.550+/-436.645 $\chi^2$/NDF:25.9/22

Right Out: -294.527+/-831.610 $\chi^2$/NDF: 15.6/18

Left In: -274.685+/-448.403 $\chi^2$/NDF:25.5/20

Left: -666.251+/-312.829 $\chi^2$/NDF: 52.9/43

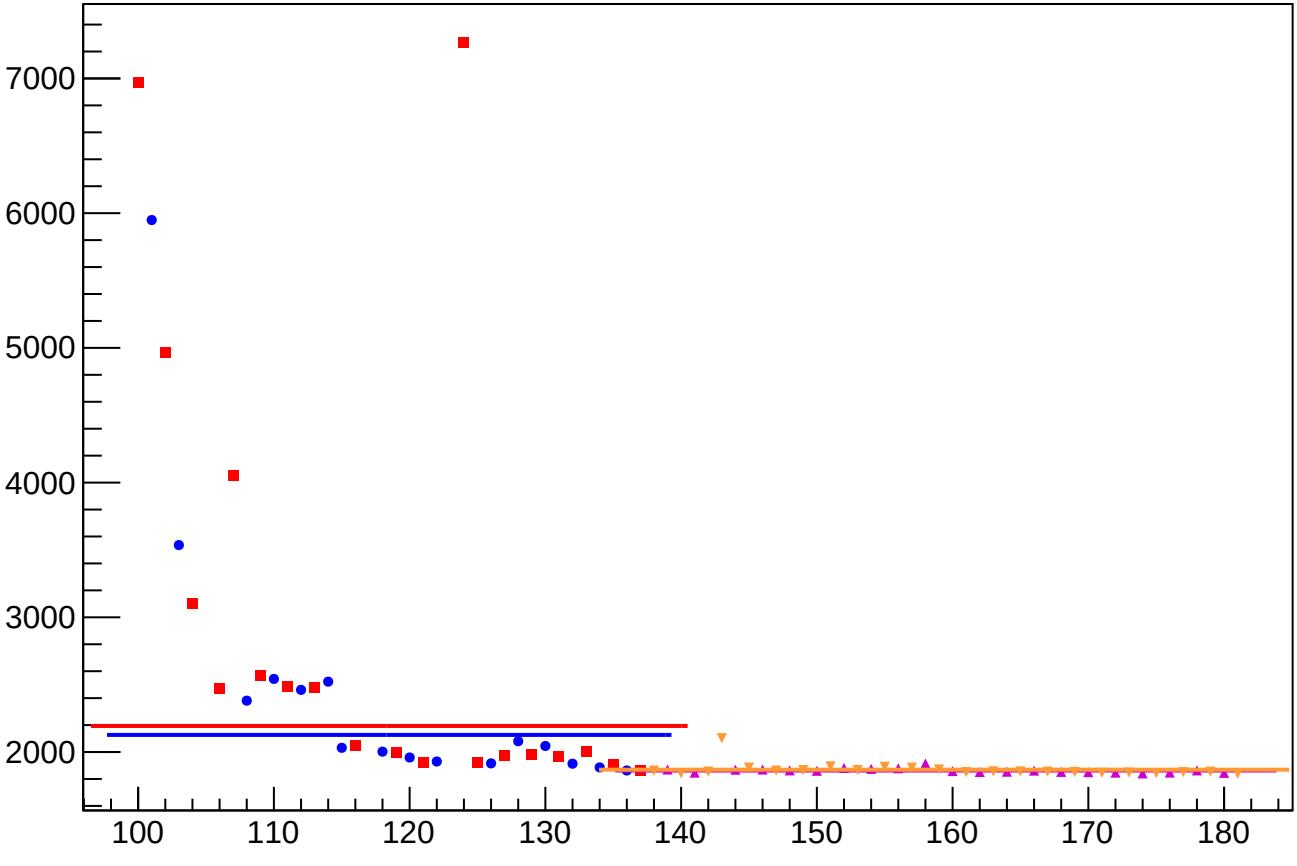
Right: -357.308+/-582.210 $\chi^2$/NDF: 34.0/34

In: -307.885+/-392.908 $\chi^2$/NDF:43.8/36

Out: -876.976+/-386.595 $\chi^2$/NDF:42.2/41

All: -597.039+/-275.569 $\chi^2$/NDF: 87.1/78

# asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 2127.041+/-0.577 $\chi^2$/NDF: 875078.1/15

Left Out: 1868.997+/-0.309 $\chi^2$/NDF:23313.8/22

Right Out: 2193.560+/-0.588 $\chi^2$/NDF: 942581.2/18

Left In: 1862.586+/-0.317 $\chi^2$/NDF:2704.5/20

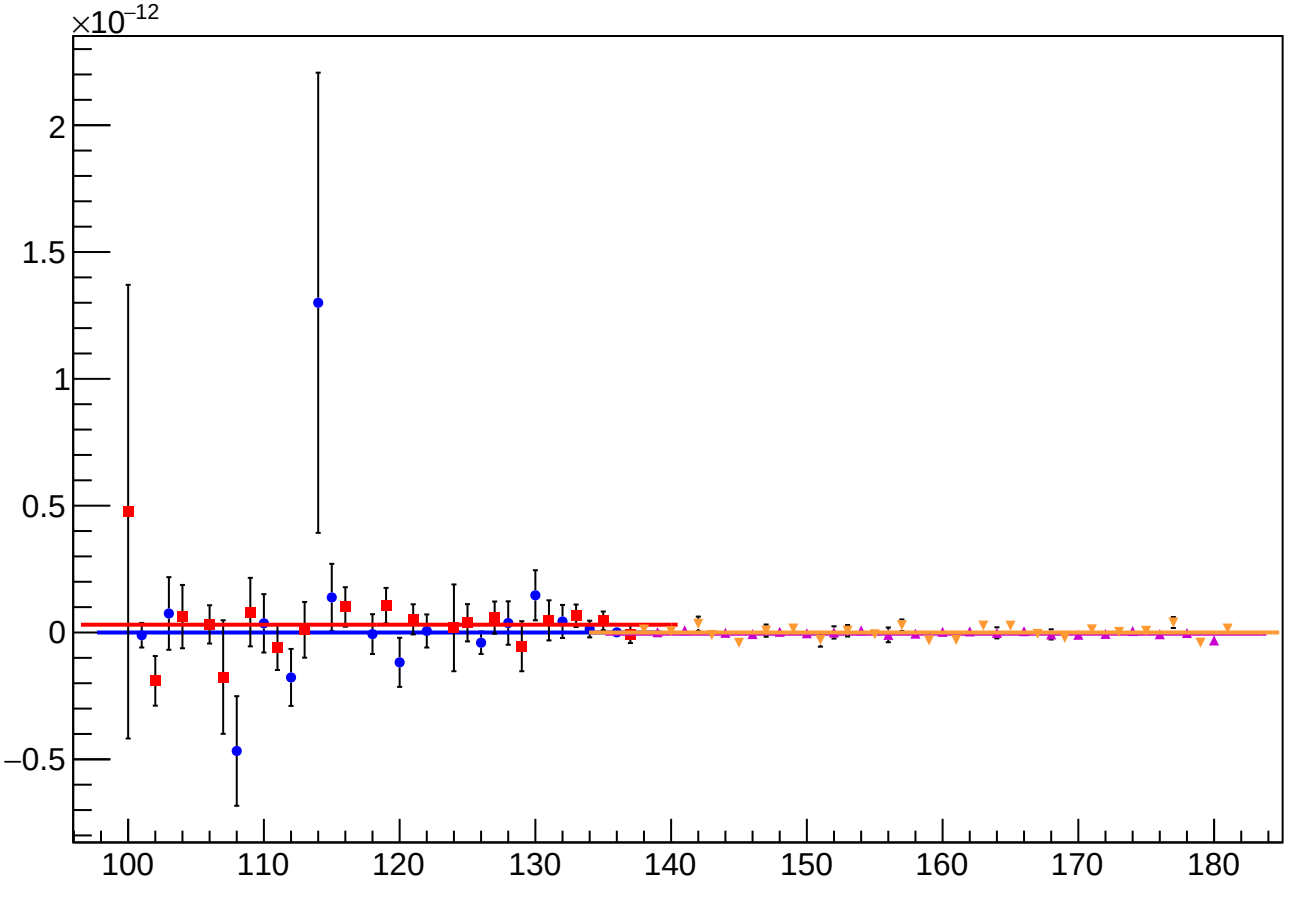
Left: 1865.877+/-0.221 $\chi^2$/NDF: 26228.1/43

Right: 2159.645+/-0.412 $\chi^2$/NDF: 1824183.5/34

In: 1923.994+/-0.278 $\chi^2$/NDF:1039319.4/36

Out: 1939.138+/-0.273 $\chi^2$/NDF:1204701.1/41

All: 1931.689+/-0.195 $\chi^2$/NDF: 2245530.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:41.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.6/20

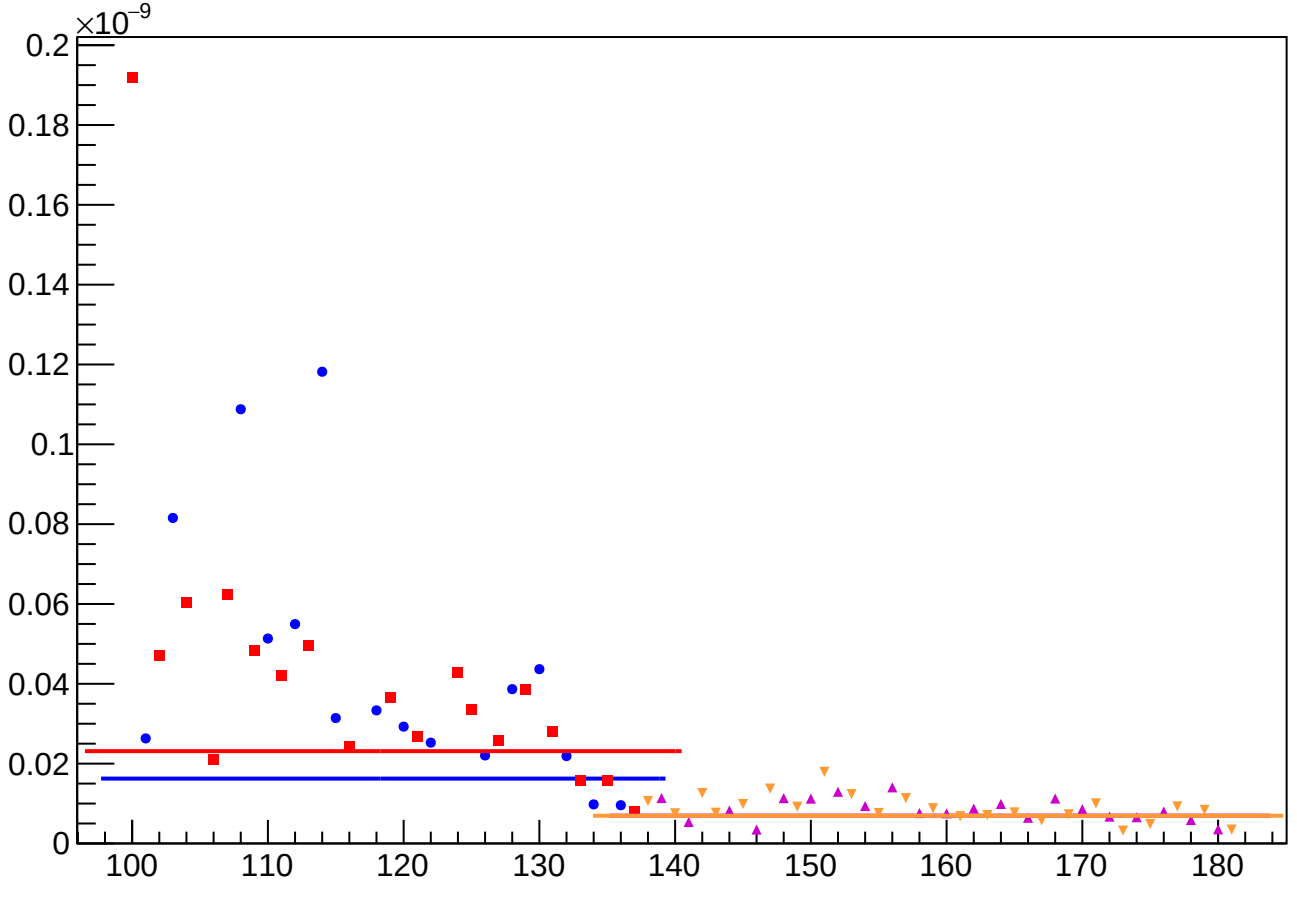
Left: -0.000+/-0.000 $\chi^2$/NDF: 56.8/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:30.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:57.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 89.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2286703.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1806409.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1411720.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1445833.7/20

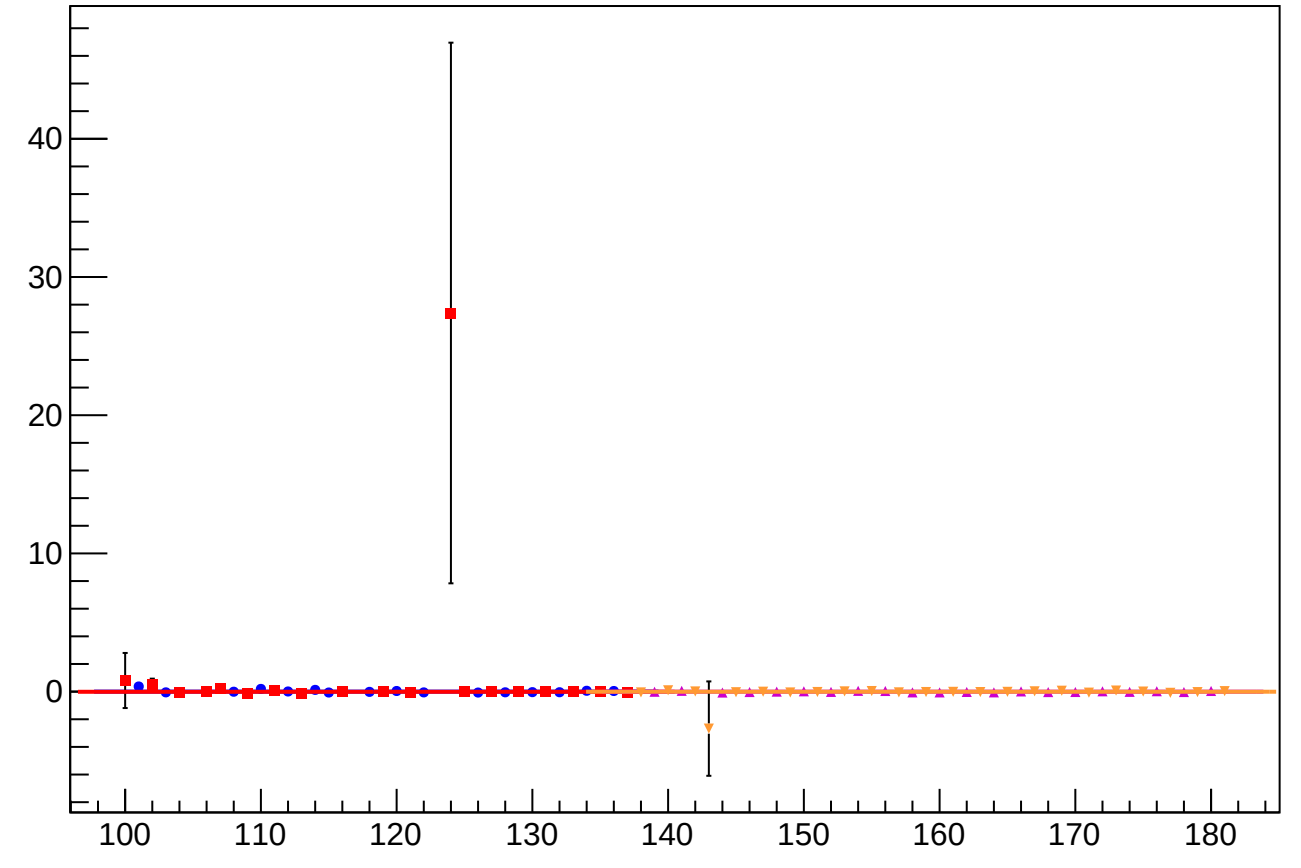
Left: 0.000+/-0.000 $\chi^2$/NDF: 3252319.0/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3942397.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:4877611.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5261619.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10139618.2/78




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: -0.007+/-0.008 $\chi^2$/NDF:36.3/22

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.005+/-0.009 $\chi^2$/NDF:20.1/20

Left: -0.006+/-0.006 $\chi^2$/NDF: 56.4/43

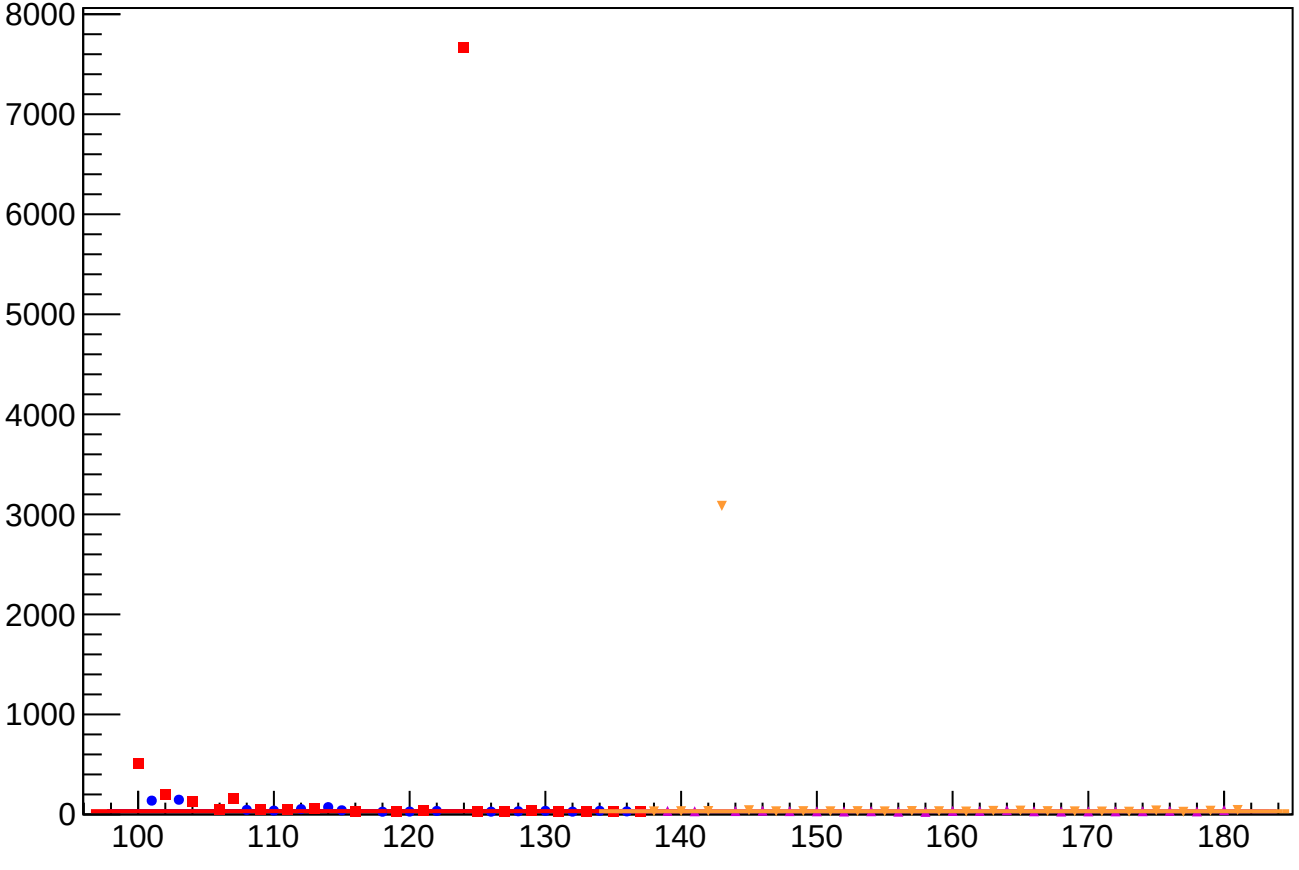
Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: -0.003+/-0.007 $\chi^2$/NDF:41.3/36

Out: -0.008+/-0.007 $\chi^2$/NDF:50.5/41

All: -0.006+/-0.005 $\chi^2$/NDF: 92.0/78

# asym_at1_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717266.1/15

Left Out: 32.296+/-0.006 $\chi^2$/NDF:2045520.2/22

Right Out: 33.084+/-0.011 $\chi^2$/NDF: 2075124.6/18

Left In: 32.697+/-0.006 $\chi^2$/NDF:390465.7/20

Left: 32.493+/-0.004 $\chi^2$/NDF: 2438195.3/43

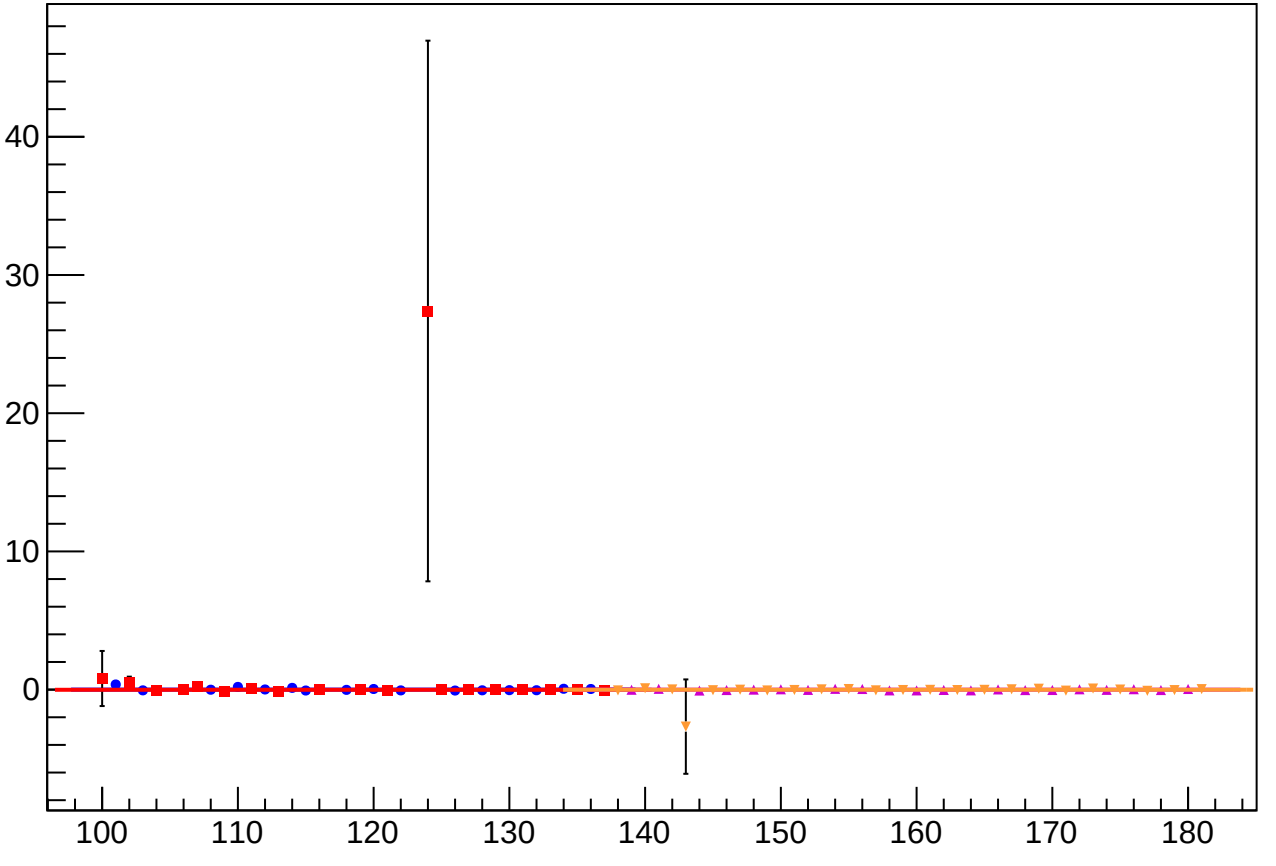
Right: 33.573+/-0.007 $\chi^2$/NDF: 3796696.6/34

In: 33.043+/-0.005 $\chi^2$/NDF:2120367.9/36

Out: 32.489+/-0.005 $\chi^2$/NDF:4124887.2/41

All: 32.763+/-0.004 $\chi^2$/NDF: 6250856.0/78

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: -0.007+/-0.008 $\chi^2$/NDF:36.3/22

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.005+/-0.009 $\chi^2$/NDF:20.1/20

Left: -0.006+/-0.006 $\chi^2$/NDF: 56.4/43

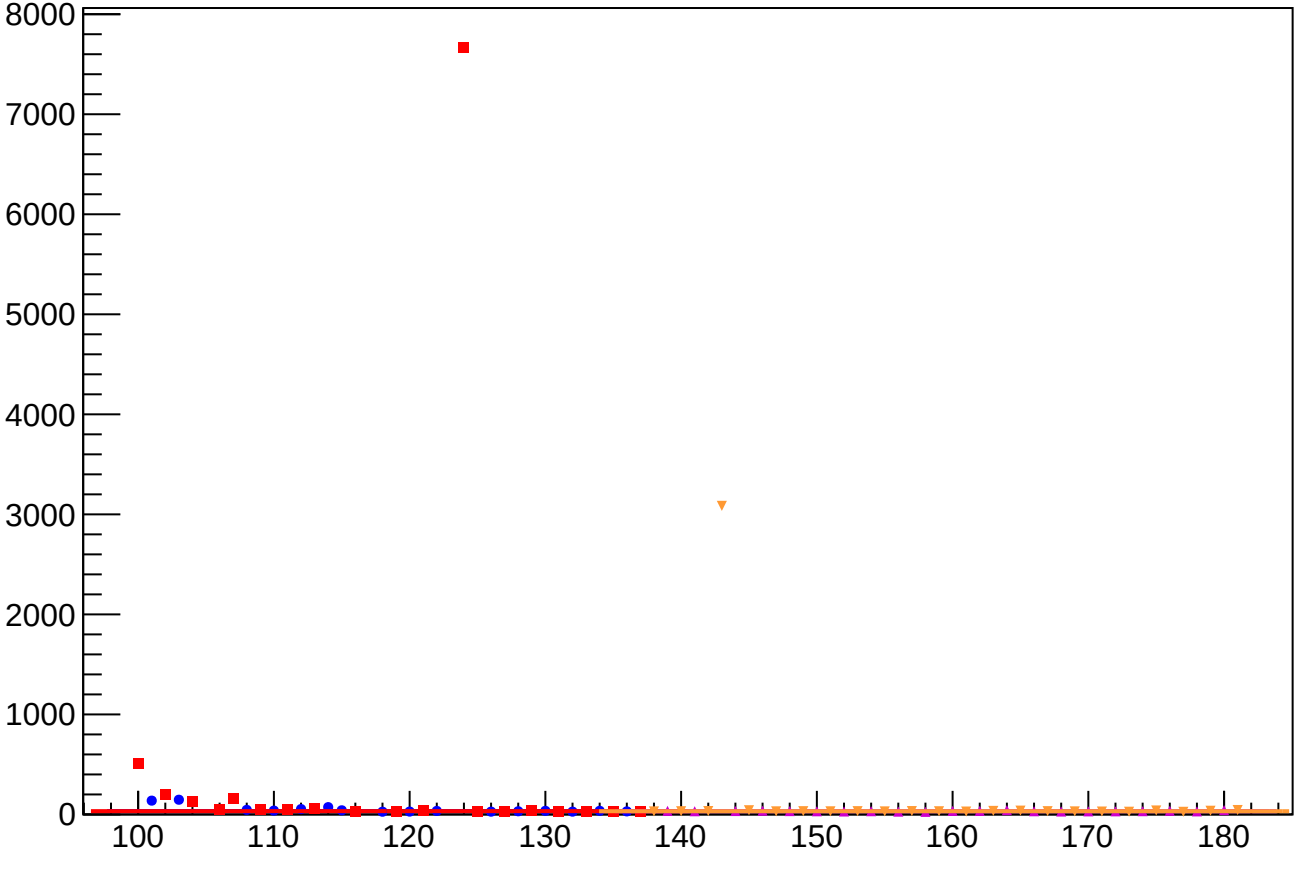
Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: -0.003+/-0.007 $\chi^2$/NDF:41.3/36

Out: -0.008+/-0.007 $\chi^2$/NDF:50.5/41

All: -0.006+/-0.005 $\chi^2$/NDF: 92.0/78

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717266.1/15

Left Out: 32.296+/-0.006 $\chi^2$/NDF:2045520.2/22

Right Out: 33.084+/-0.011 $\chi^2$/NDF: 2075124.6/18

Left In: 32.697+/-0.006 $\chi^2$/NDF:390465.7/20

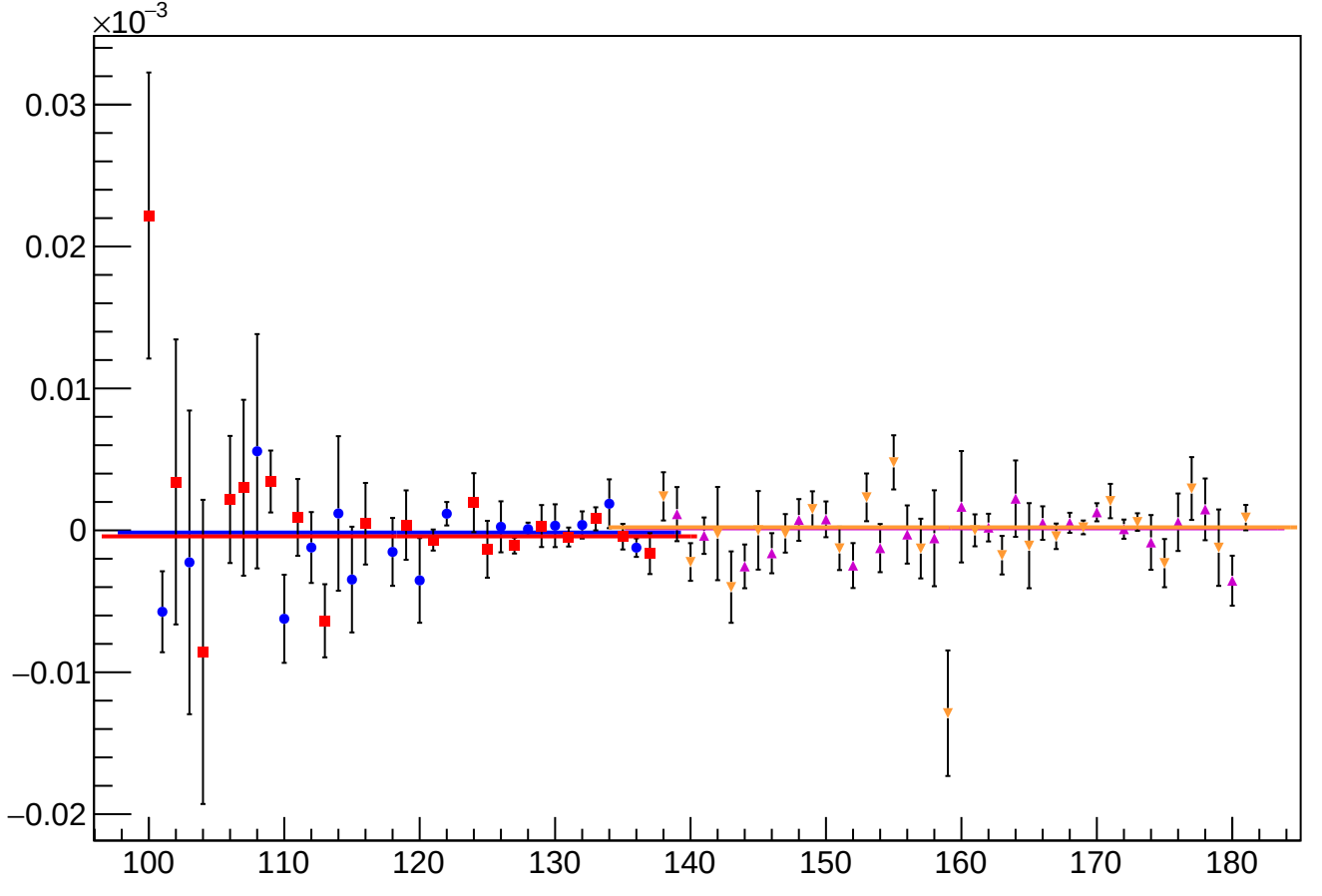
Left: 32.493+/-0.004 $\chi^2$/NDF: 2438195.3/43

Right: 33.573+/-0.007 $\chi^2$/NDF: 3796696.6/34

In: 33.043+/-0.005 $\chi^2$/NDF:2120367.9/36

Out: 32.489+/-0.005 $\chi^2$/NDF:4124887.2/41

All: 32.763+/-0.004 $\chi^2$/NDF: 6250856.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:36.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.3/20

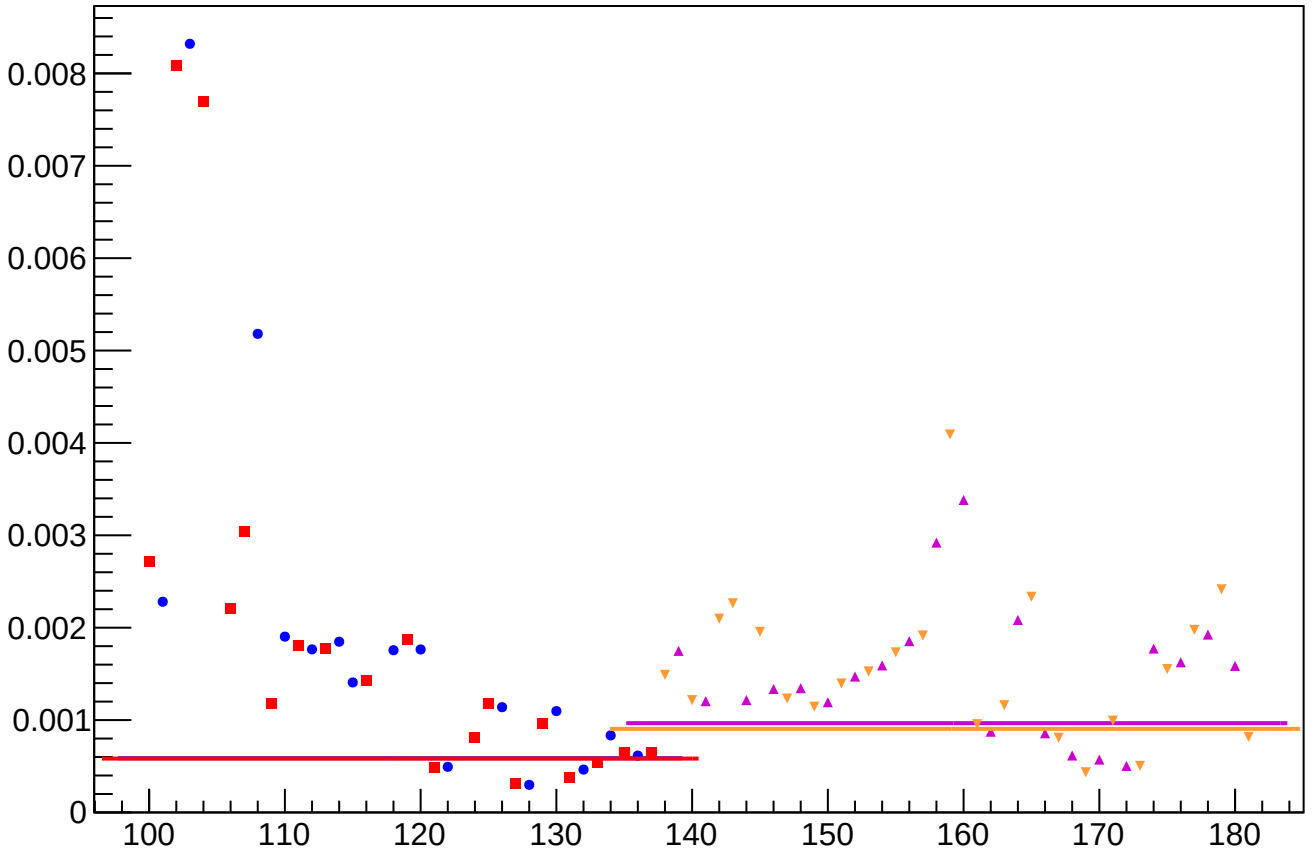
Left: 0.000+/-0.000 $\chi^2$/NDF: 55.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:37.1/36

Out: -0.000+/-0.000 $\chi^2$/NDF:61.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 98.2/78




Right In: 0.001+/-0.000 $\chi^2$/NDF: 5485949.6/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:8711727.4/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5431787.1/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:6837497.0/20

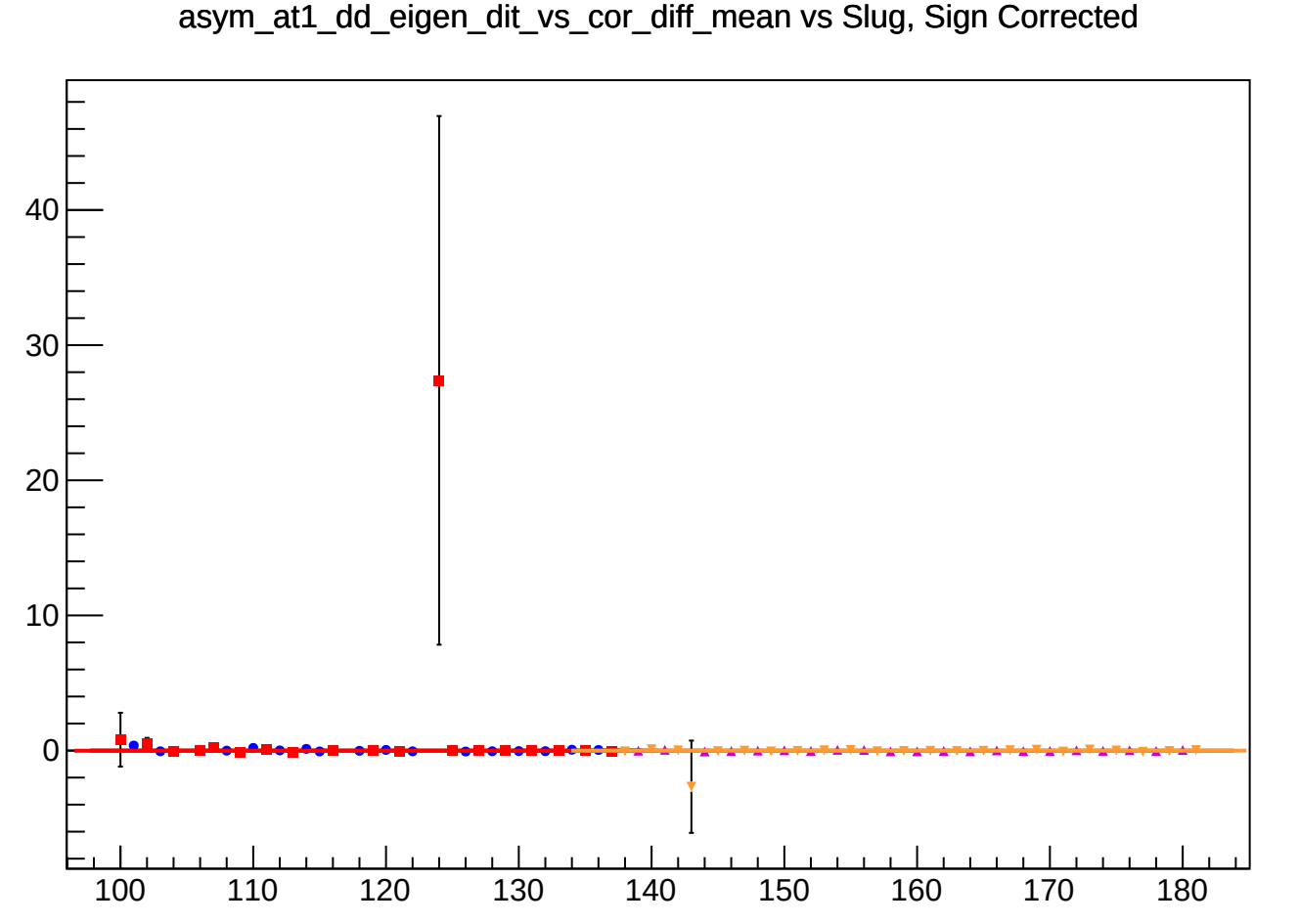
Left: 0.001+/-0.000 $\chi^2$/NDF: 15605405.5/43

Right: 0.001+/-0.000 $\chi^2$/NDF: 10917885.2/34

In: 0.001+/-0.000 $\chi^2$/NDF:14132962.8/36

Out: 0.001+/-0.000 $\chi^2$/NDF:15583294.9/41

All: 0.001+/-0.000 $\chi^2$/NDF: 29736041.4/78




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: -0.007+/-0.008 $\chi^2$/NDF:36.3/22

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.005+/-0.009 $\chi^2$/NDF:20.1/20

Left: -0.006+/-0.006 $\chi^2$/NDF: 56.4/43

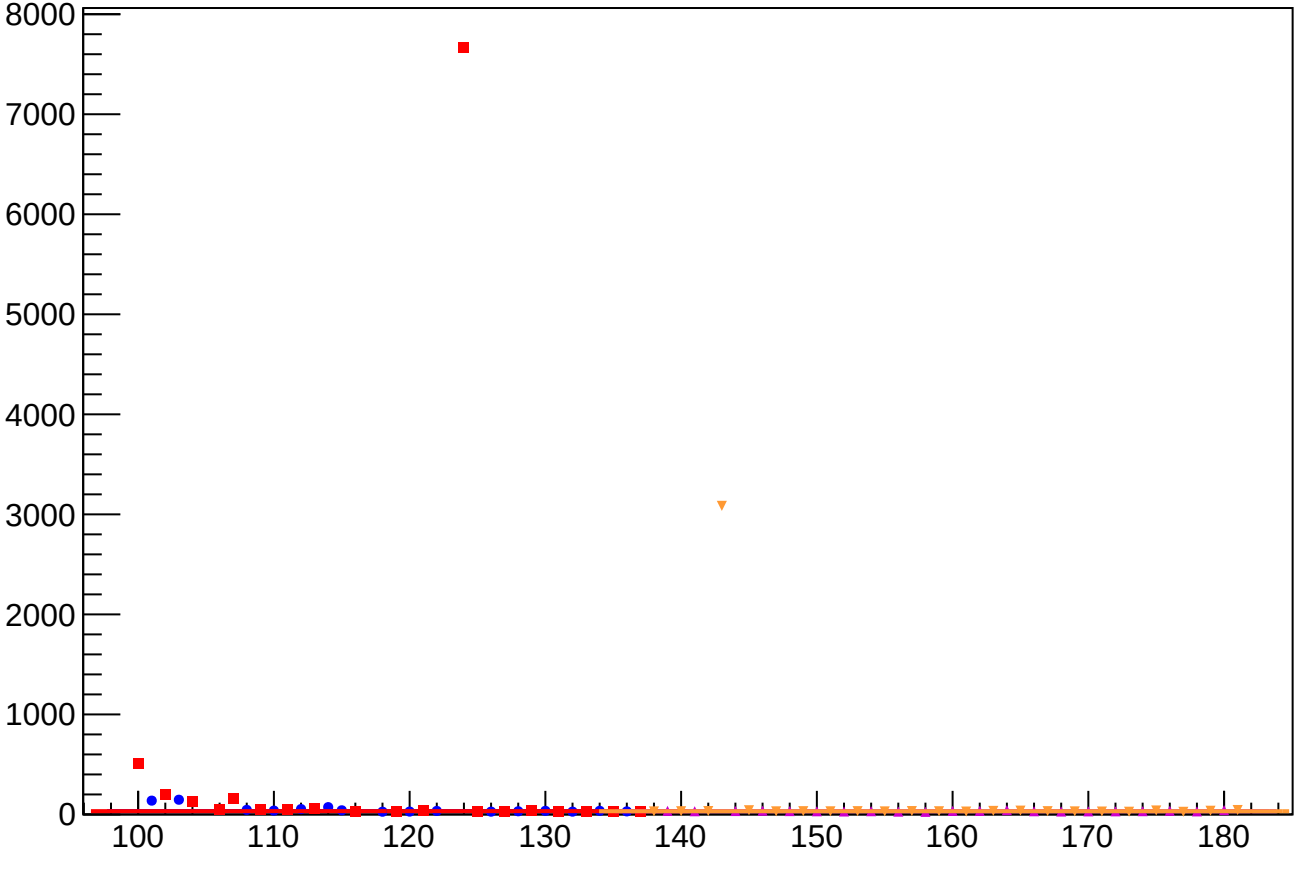
Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: -0.003+/-0.007 $\chi^2$/NDF:41.3/36

Out: -0.008+/-0.007 $\chi^2$/NDF:50.5/41

All: -0.006+/-0.005 $\chi^2$/NDF: 92.0/78

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717254.5/15

Left Out: 32.296+/-0.006 $\chi^2$/NDF:2045564.0/22

Right Out: 33.083+/-0.011 $\chi^2$/NDF: 2075105.8/18

Left In: 32.698+/-0.006 $\chi^2$/NDF:390376.7/20

Left: 32.493+/-0.004 $\chi^2$/NDF: 2438154.0/43

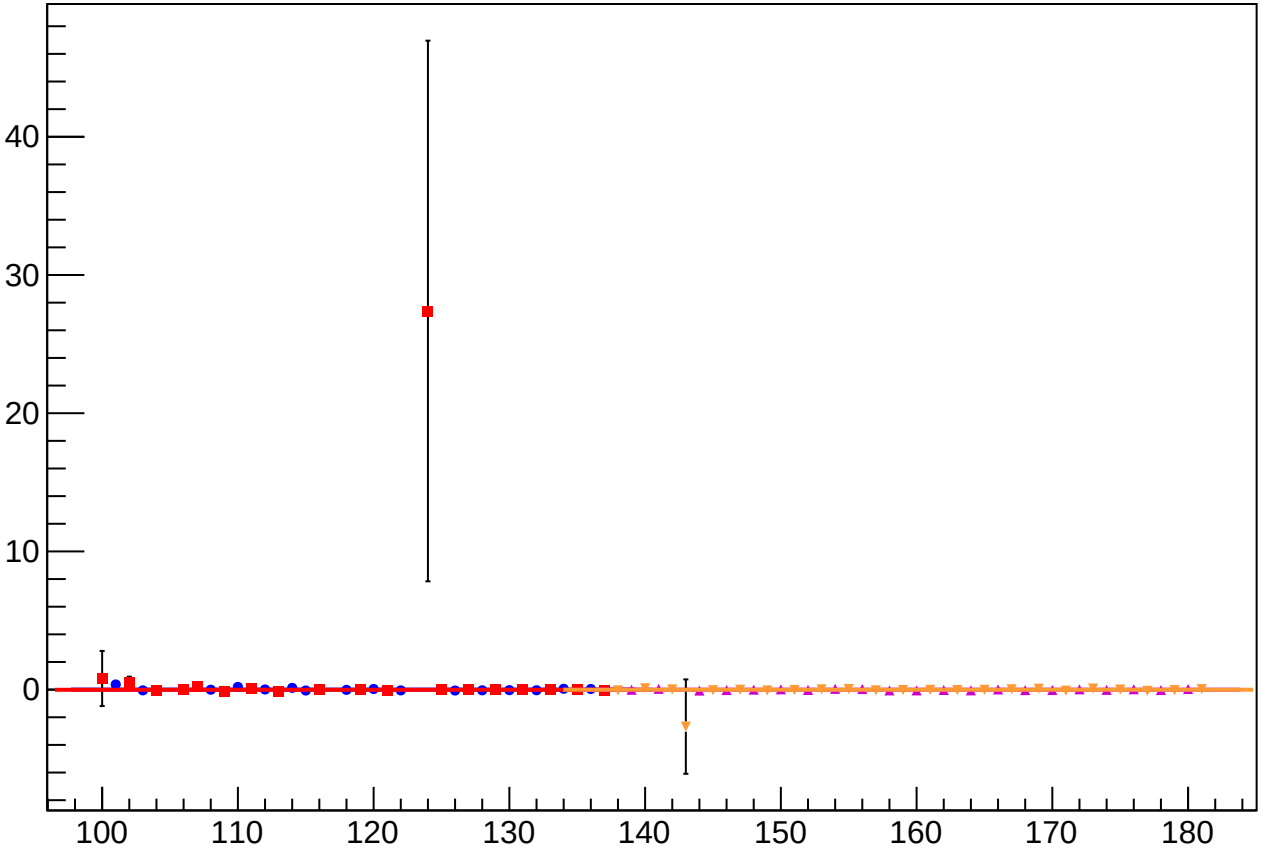
Right: 33.573+/-0.007 $\chi^2$/NDF: 3796667.3/34

In: 33.043+/-0.005 $\chi^2$/NDF:2120262.6/36

Out: 32.489+/-0.005 $\chi^2$/NDF:4124912.2/41

All: 32.763+/-0.004 $\chi^2$/NDF: 6250781.8/78

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: -0.007+/-0.008 $\chi^2$/NDF:36.3/22

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.005+/-0.009 $\chi^2$/NDF:20.1/20

Left: -0.006+/-0.006 $\chi^2$/NDF: 56.4/43

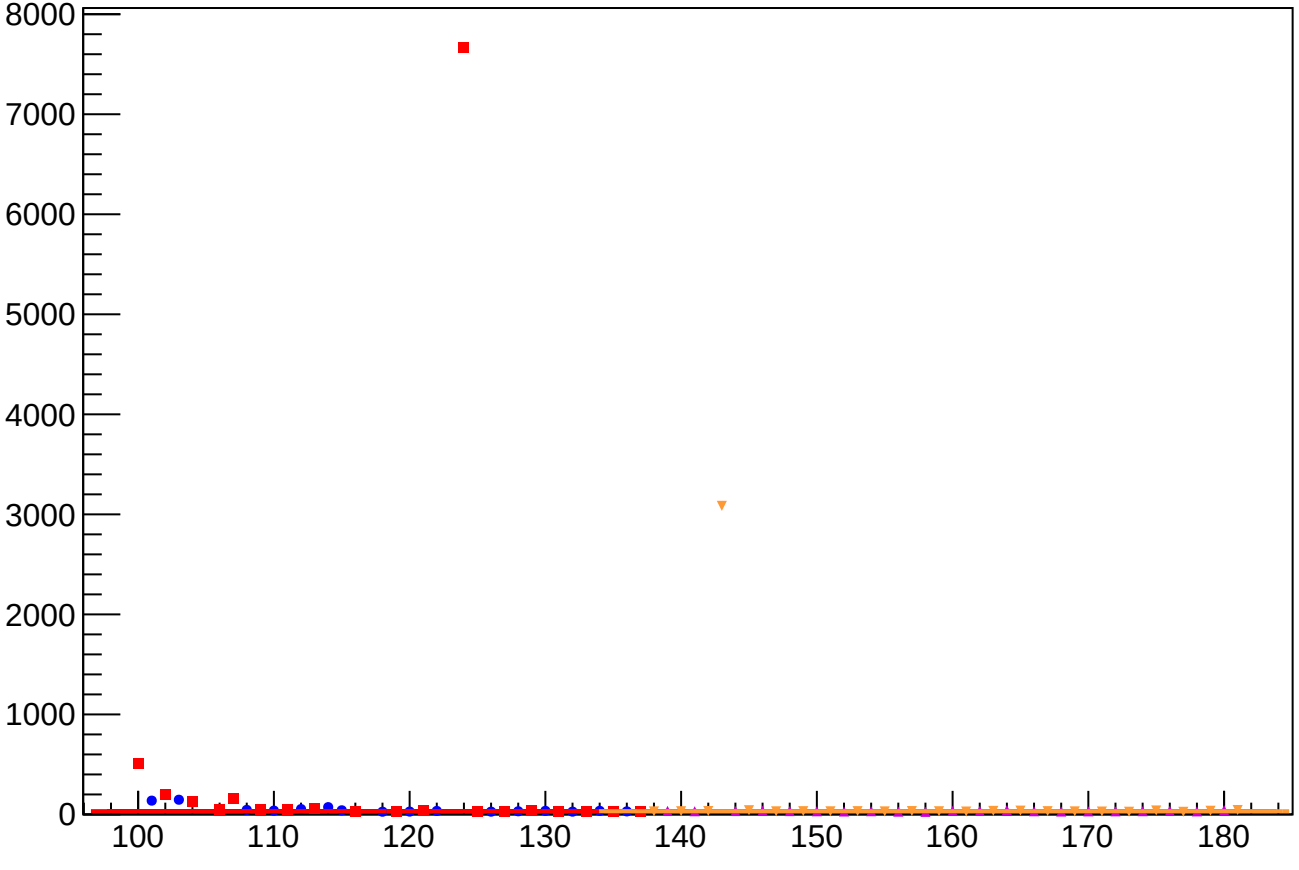
Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: -0.003+/-0.007 $\chi^2$/NDF:41.3/36

Out: -0.008+/-0.007 $\chi^2$/NDF:50.5/41

All: -0.006+/-0.005 $\chi^2$/NDF: 92.0/78

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717254.5/15

Left Out: 32.296+/-0.006 $\chi^2$/NDF:2045564.0/22

Right Out: 33.083+/-0.011 $\chi^2$/NDF: 2075105.8/18

Left In: 32.698+/-0.006 $\chi^2$/NDF:390376.7/20

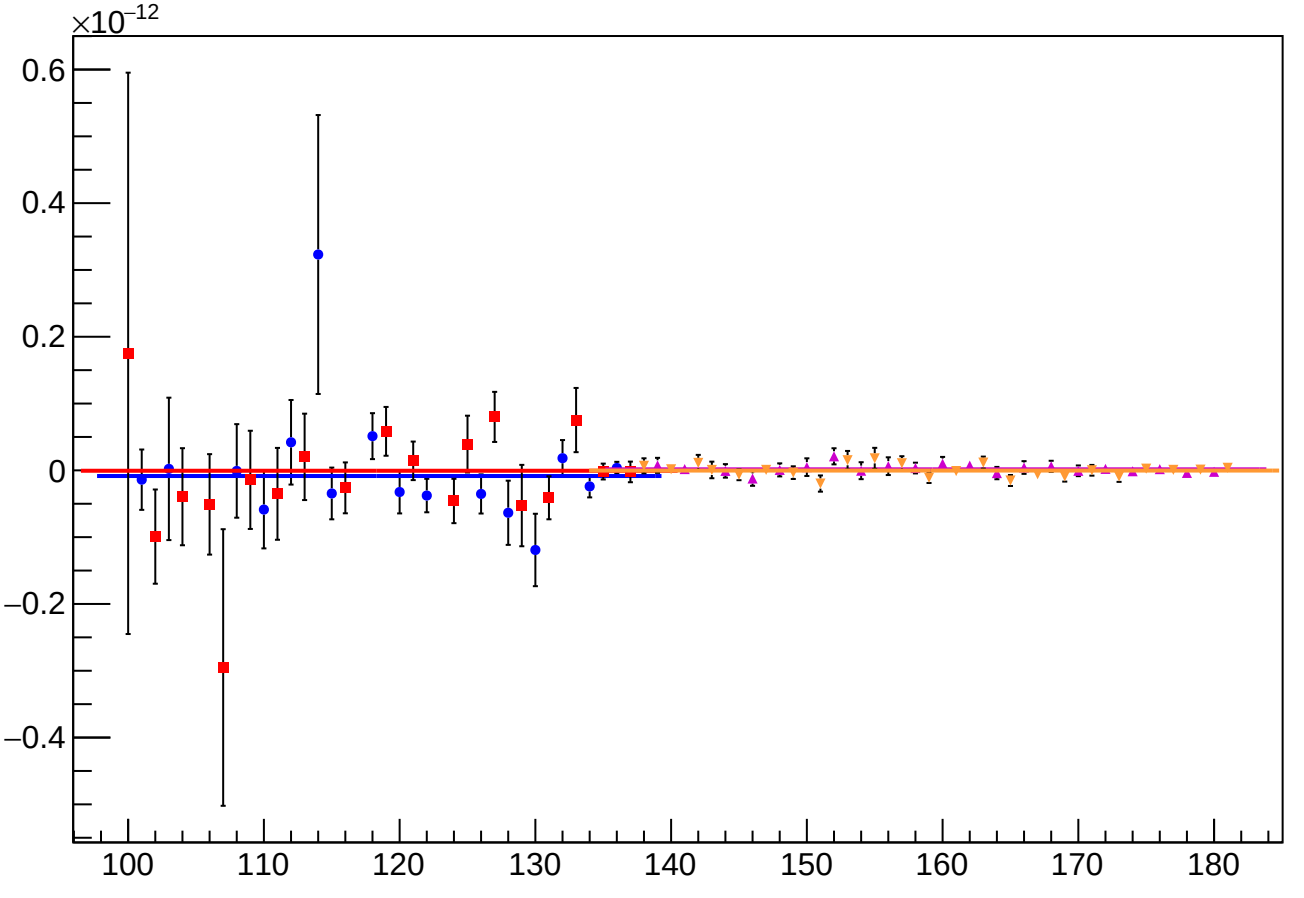
Left: 32.493+/-0.004 $\chi^2$/NDF: 2438154.0/43

Right: 33.573+/-0.007 $\chi^2$/NDF: 3796667.3/34

In: 33.043+/-0.005 $\chi^2$/NDF:2120262.6/36

Out: 32.489+/-0.005 $\chi^2$/NDF:4124912.2/41

All: 32.763+/-0.004 $\chi^2$/NDF: 6250781.8/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:20.1/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:8.2/20

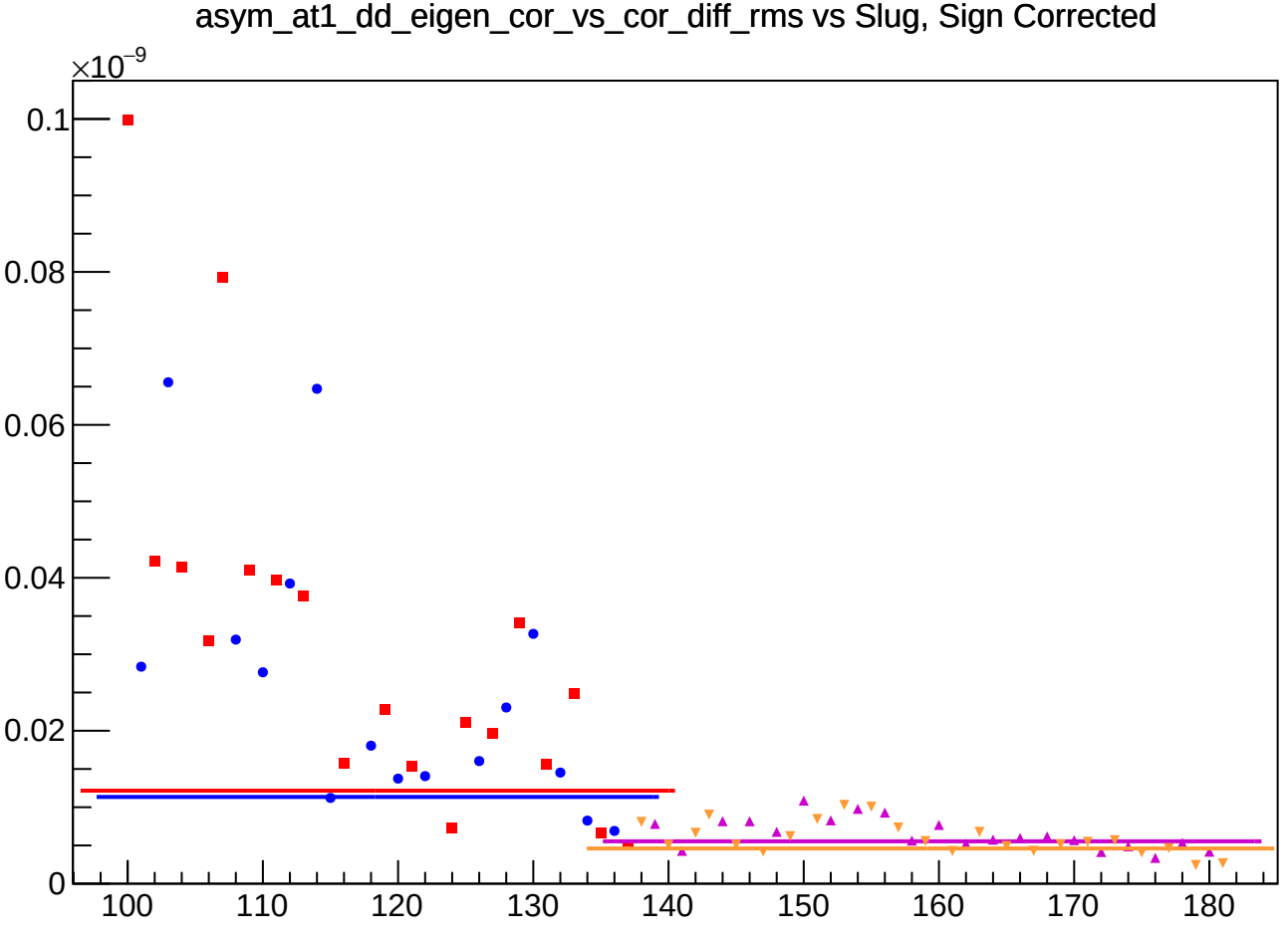
Left: 0.000+/-0.000 $\chi^2$/NDF: 28.9/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:29.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:40.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 70.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2813598.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2786387.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3757412.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1944232.2/20

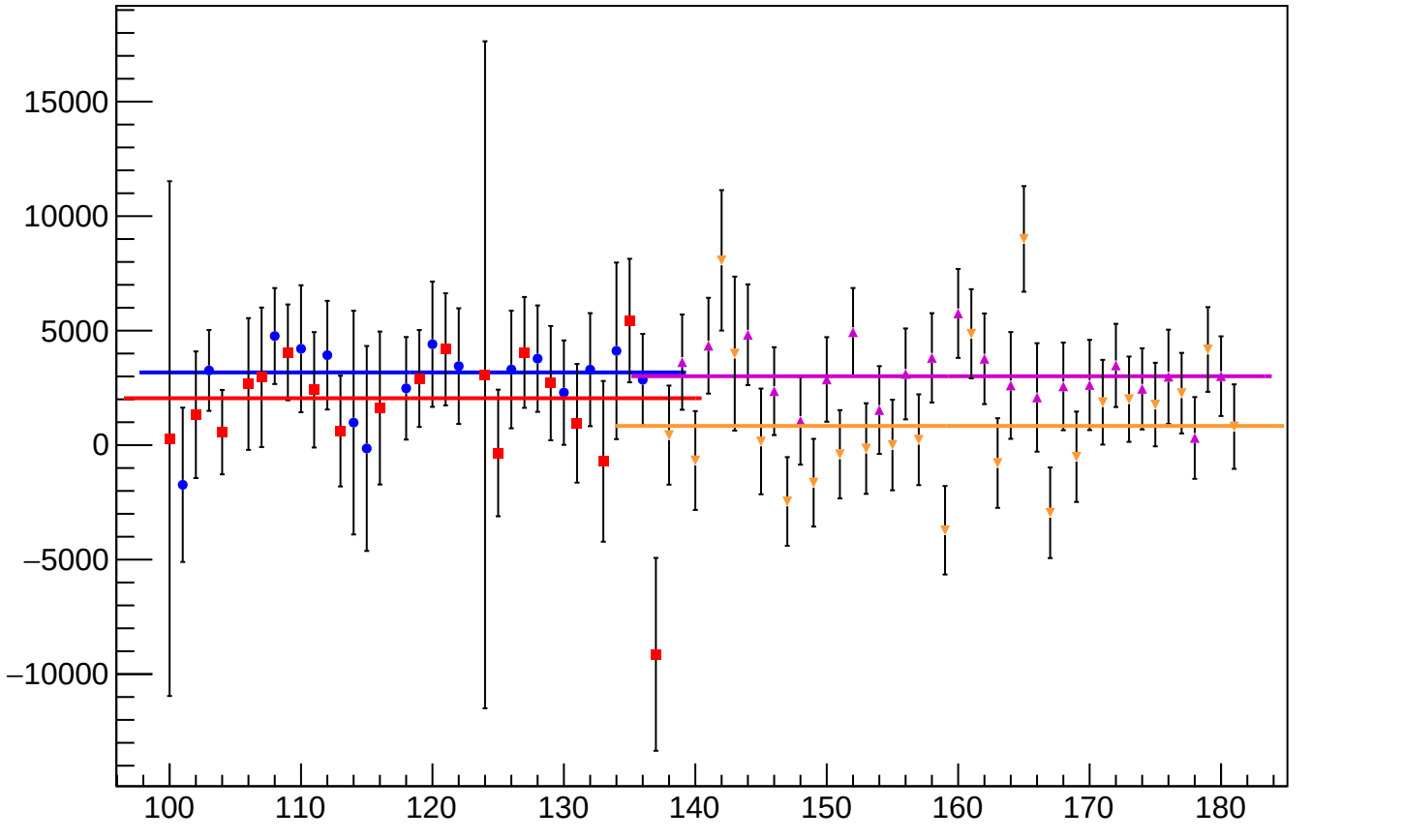
Left: 0.000+/-0.000 $\chi^2$/NDF: 5056028.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 6585389.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:6286938.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8625007.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15326627.2/78




Right In: 3175.599+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 836.959+/-420.032 $\chi^2$/NDF:44.6/22

Right Out: 2047.403+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 3008.641+/-427.335 $\chi^2$/NDF:9.0/20

Left: 1904.085+/-299.556 $\chi^2$/NDF: 66.7/43

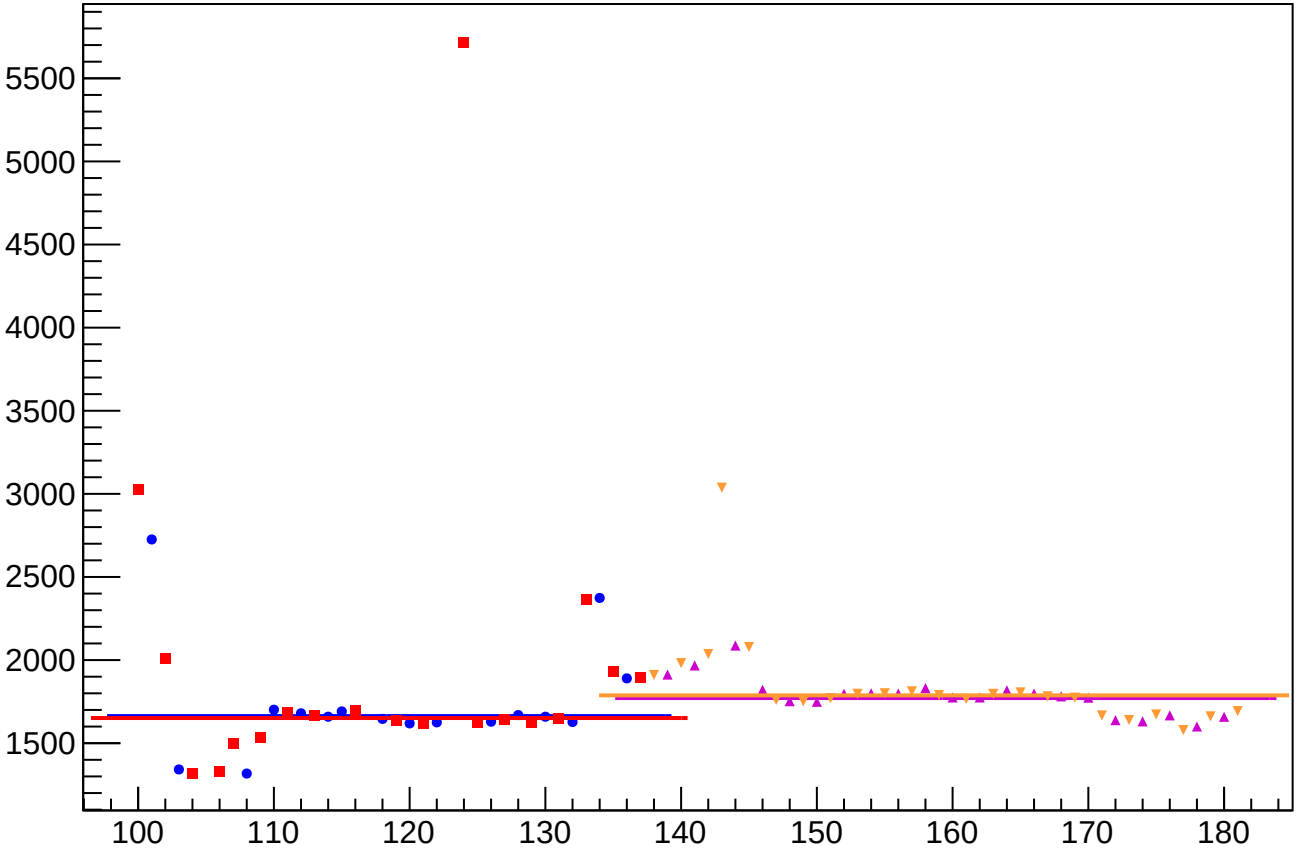
Right: 2605.638+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3061.483+/-353.296 $\chi^2$/NDF:13.3/36

Out: 1216.486+/-348.007 $\chi^2$/NDF:61.3/41

All: 2125.073+/-247.927 $\chi^2$/NDF: 88.4/78

# reg_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415630.7/15

Left Out: 1787.832+/-0.297 $\chi^2$/NDF:417950.4/22

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.1/18

Left In: 1771.536+/-0.302 $\chi^2$/NDF:129214.1/20

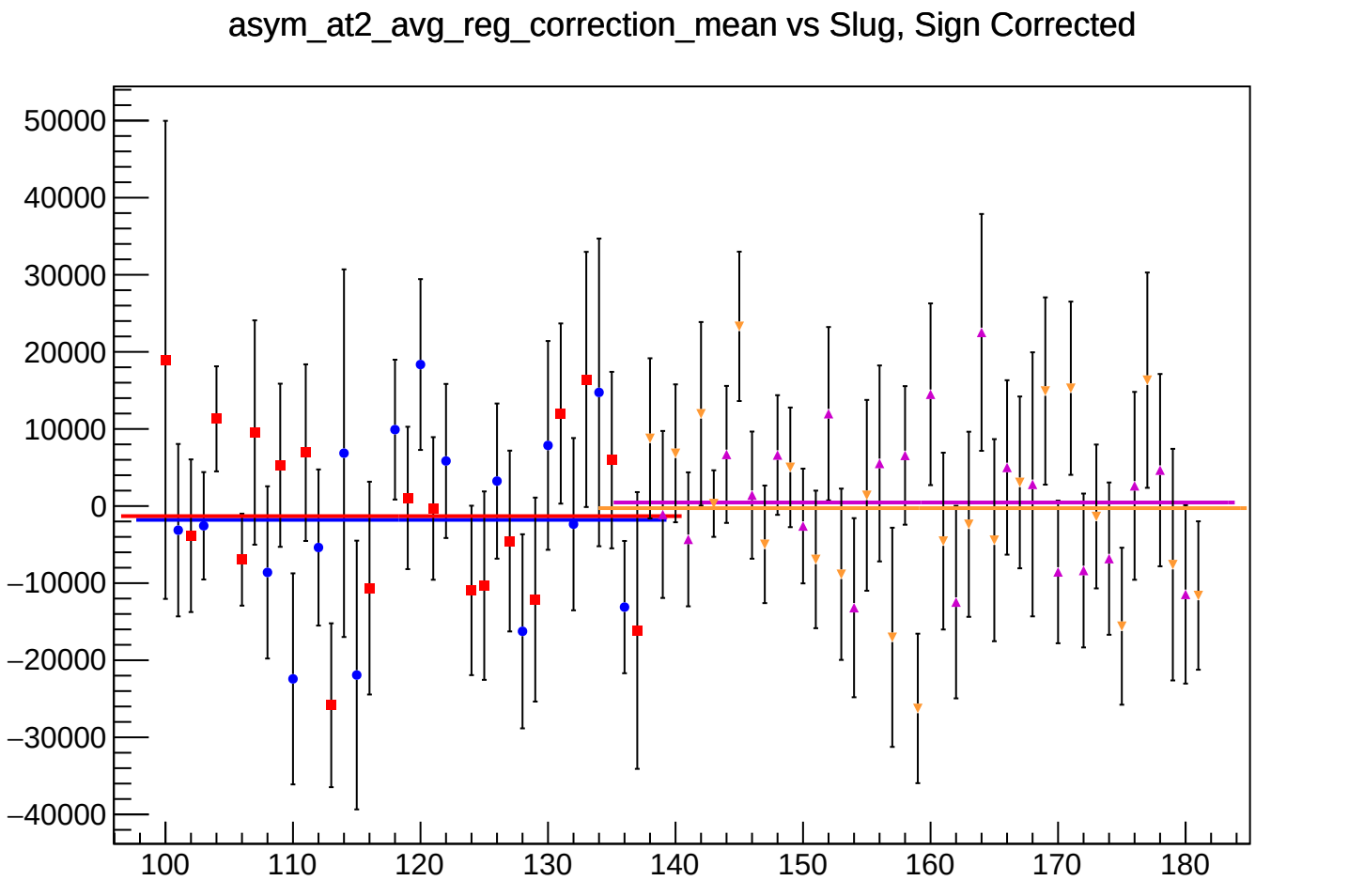
Left: 1779.824+/-0.212 $\chi^2$/NDF: 548643.7/43

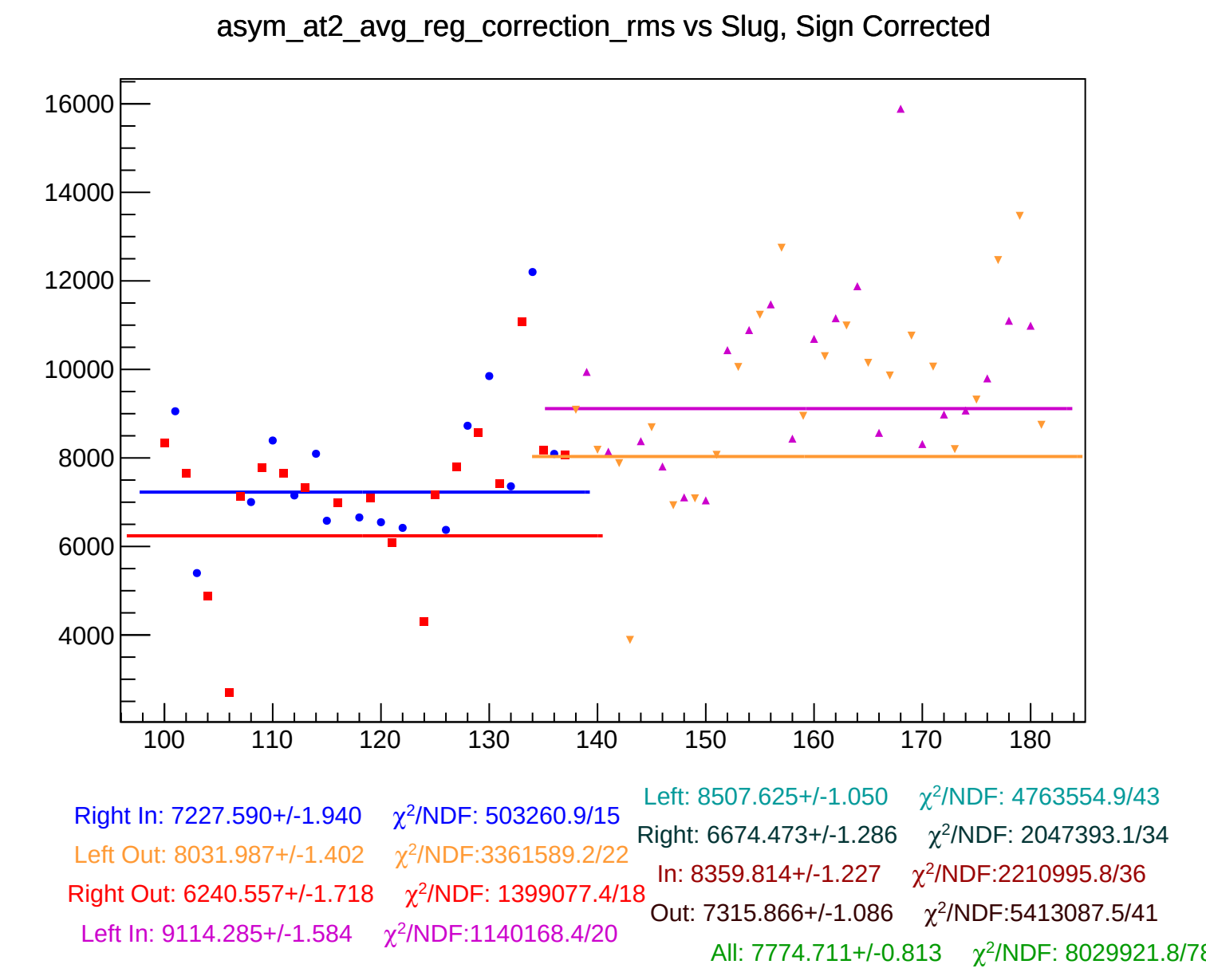
Right: 1657.052+/-0.312 $\chi^2$/NDF: 847939.4/34

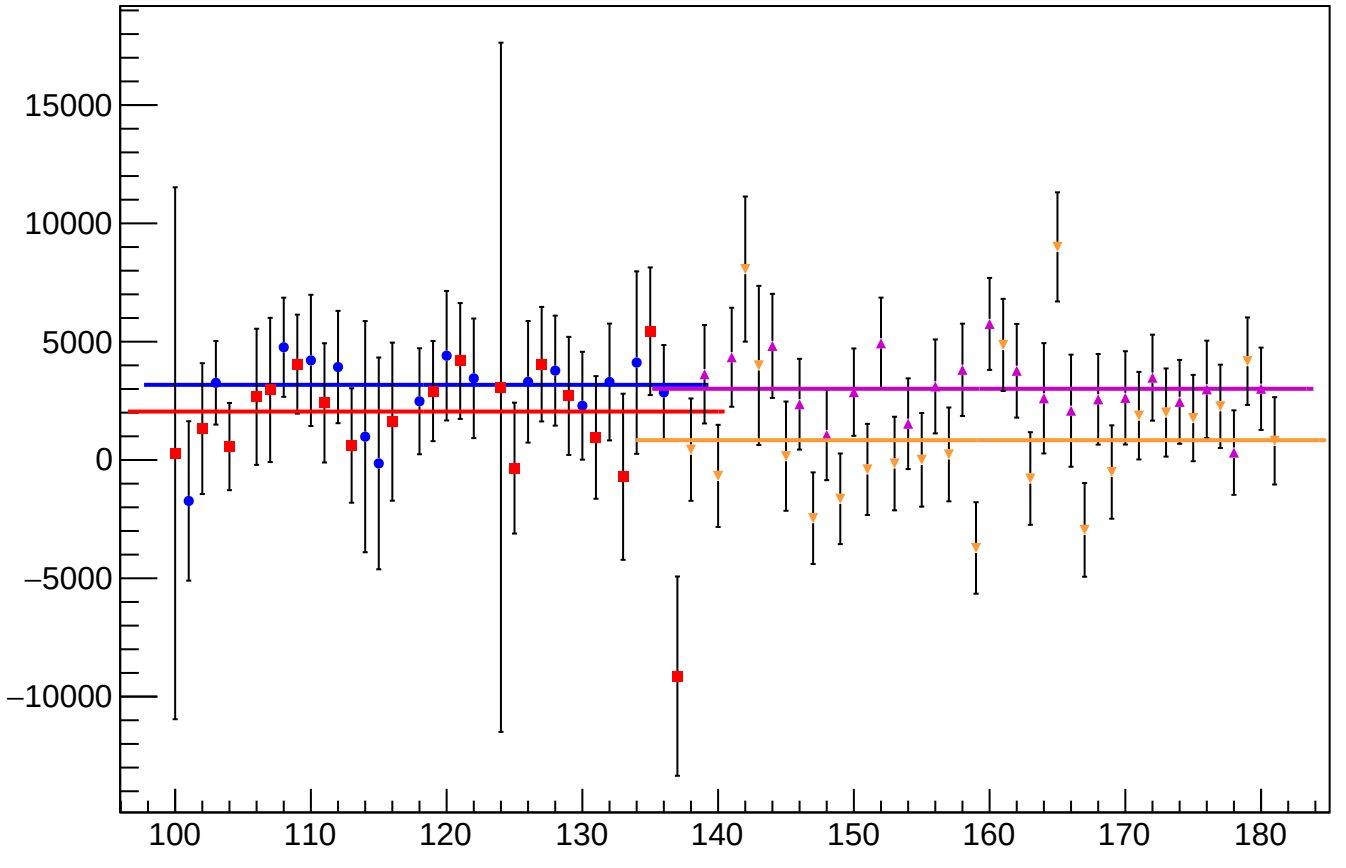
In: 1737.154+/-0.250 $\chi^2$/NDF:585752.0/36

Out: 1745.030+/-0.246 $\chi^2$/NDF:916151.4/41

All: 1741.151+/-0.175 $\chi^2$/NDF: 1502407.9/78


asym_at2_avg_reg_correction_mean vs Slug, Sign Corrected
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
160
170
180
Right In: -1791.030+/-2743.617 χ²/NDF: 14.3/15
Left Out: -272.327+/-1983.098 χ²/NDF:28.1/22
Right Out: -1306.311+/-2430.063 χ²/NDF: 17.7/18
Left In: 460.699+/-2239.642 χ²/NDF:12.9/20
Left: 49.816+/-1484.716 χ²/NDF: 41.1/43
Right: -1519.402+/-1819.116 χ²/NDF: 32.1/34
In: -439.746+/-1734.978 χ²/NDF:27.6/36
Out: -685.660+/-1536.423 χ²/NDF:46.0/41
All: -577.574+/-1150.238 χ²/NDF: 73.6/78


asym_at2_avg_reg_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
100
110
120
130
140
150
160
170
180
Right In: 7227.590+/-1.940 χ²/NDF: 503260.9/15
Left Out: 8031.987+/-1.402 χ²/NDF:3361589.2/22
Right Out: 6240.557+/-1.718 χ²/NDF: 1399077.4/18
Left In: 9114.285+/-1.584 χ²/NDF:1140168.4/20
Left: 8507.625+/-1.050 χ²/NDF: 4763554.9/43
Right: 6674.473+/-1.286 χ²/NDF: 2047393.1/34
In: 8359.814+/-1.227 χ²/NDF:2210995.8/36
Out: 7315.866+/-1.086 χ²/NDF:5413087.5/41
All: 7774.711+/-0.813 χ²/NDF: 8029921.8/78




Right In: 3175.689+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 836.859+/-420.032 $\chi^2$/NDF:44.7/22

Right Out: 2047.209+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 3008.527+/-427.335 $\chi^2$/NDF:9.0/20

Left: 1903.978+/-299.556 $\chi^2$/NDF: 66.7/43

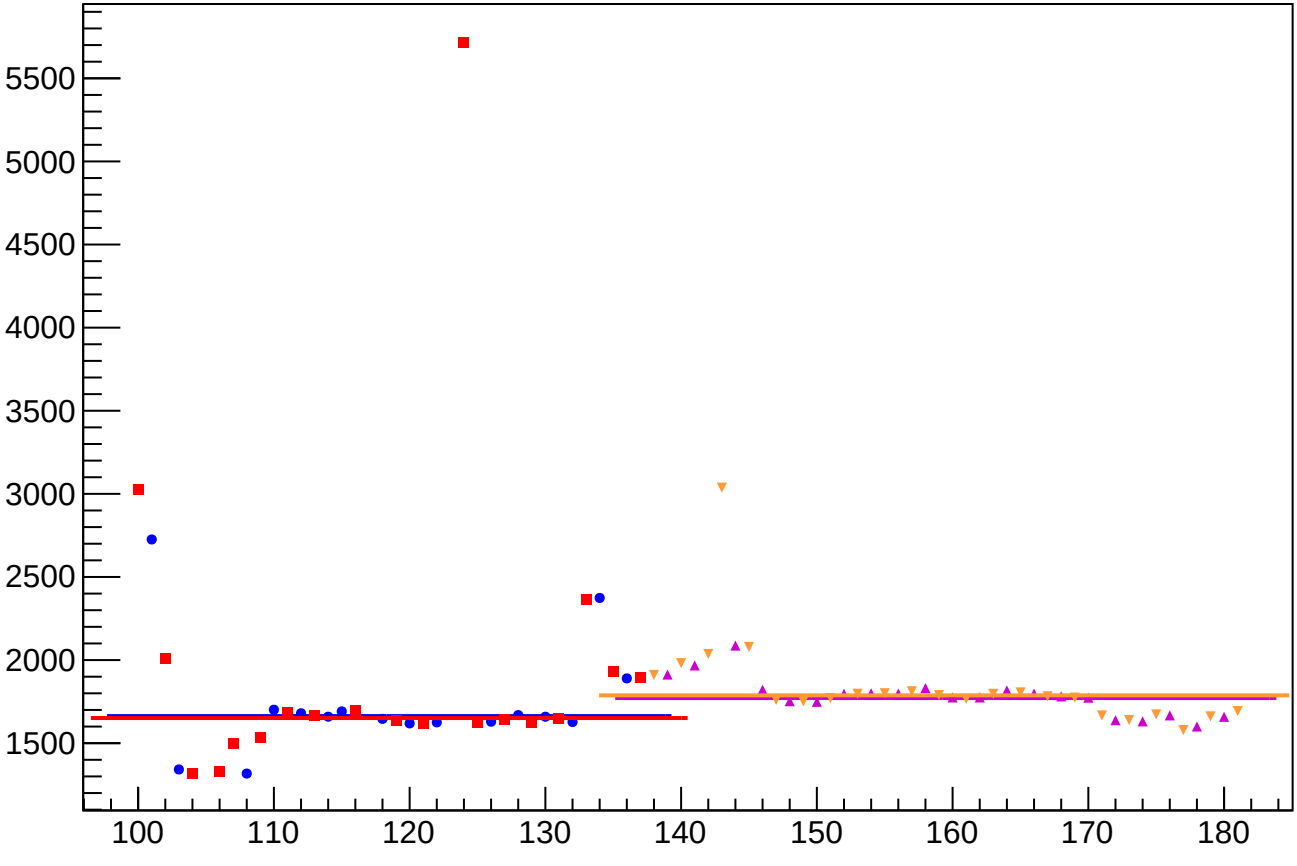
Right: 2605.584+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3061.433+/-353.296 $\chi^2$/NDF:13.3/36

Out: 1216.356+/-348.007 $\chi^2$/NDF:61.3/41

All: 2124.982+/-247.927 $\chi^2$/NDF: 88.4/78

# cor_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415631.0/15

Left Out: 1787.832+/-0.297 $\chi^2$/NDF:417950.3/22

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.2/18

Left In: 1771.536+/-0.302 $\chi^2$/NDF:129214.0/20

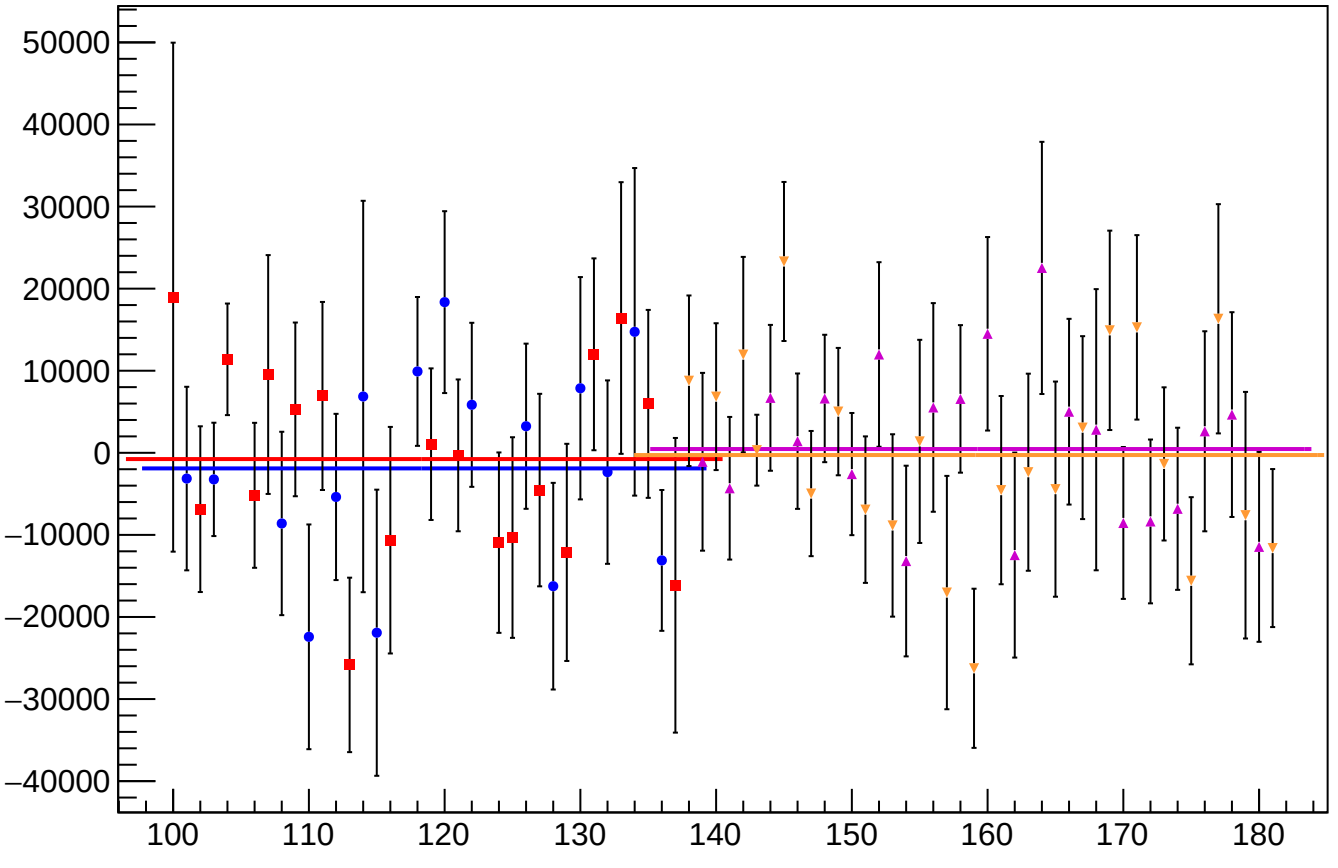
Left: 1779.825+/-0.212 $\chi^2$/NDF: 548643.6/43

Right: 1657.051+/-0.312 $\chi^2$/NDF: 847939.7/34

In: 1737.154+/-0.250 $\chi^2$/NDF:585752.4/36

Out: 1745.030+/-0.246 $\chi^2$/NDF:916151.7/41

All: 1741.151+/-0.175 $\chi^2$/NDF: 1502408.6/78




Right In: -1900.125+/-2739.954 $\chi^2$/NDF: 14.4/15

Left Out: -272.387+/-1983.093 $\chi^2$/NDF:28.1/22

Right Out: -762.513+/-2549.943 $\chi^2$/NDF: 17.3/18

Left In: 460.737+/-2239.640 $\chi^2$/NDF:12.9/20

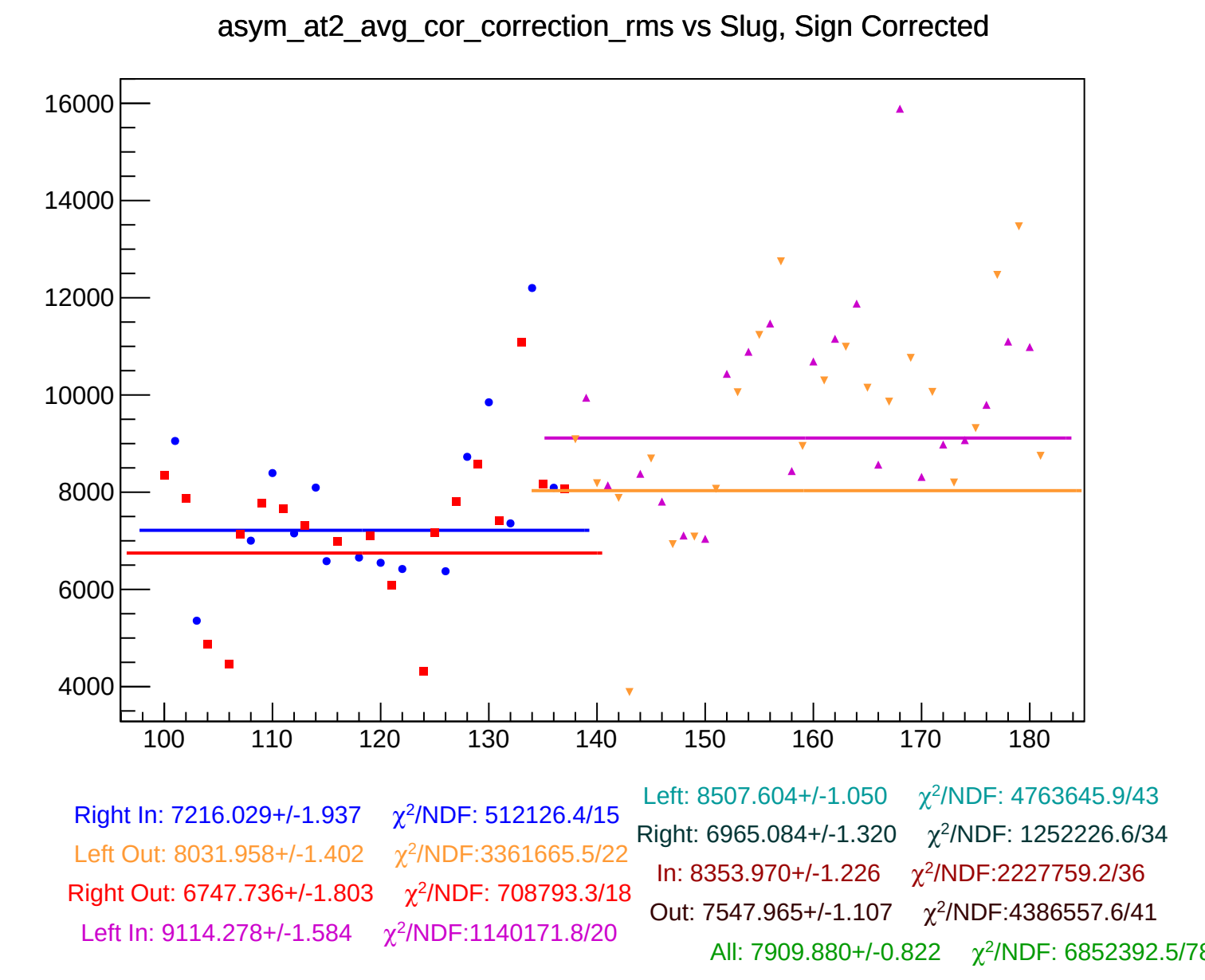
Left: 49.799+/-1484.713 $\chi^2$/NDF: 41.1/43

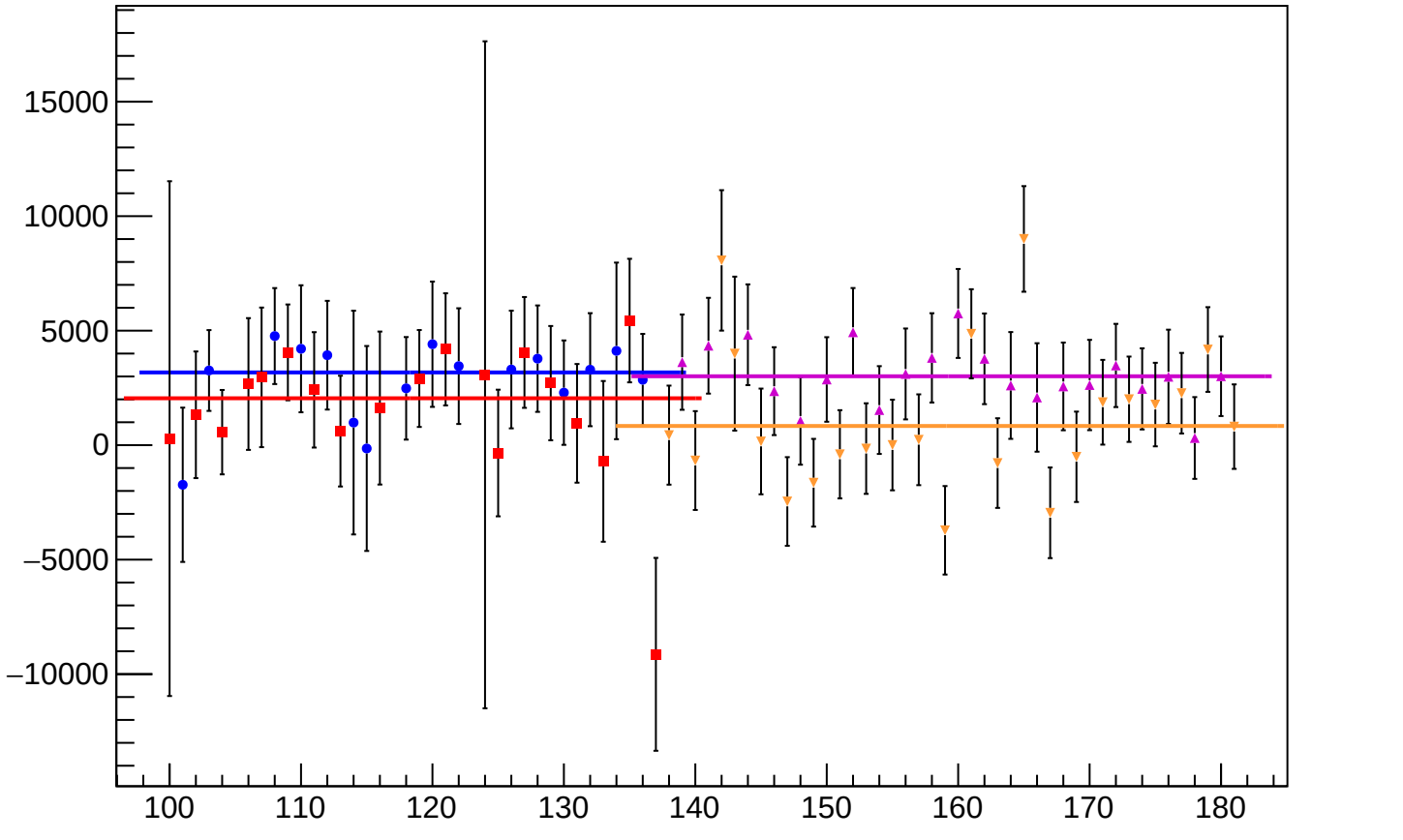
Right: -1290.509+/-1866.644 $\chi^2$/NDF: 31.7/34

In: -484.862+/-1734.050 $\chi^2$/NDF:27.7/36

Out: -457.104+/-1565.417 $\chi^2$/NDF:45.4/41

All: -469.568+/-1161.974 $\chi^2$/NDF: 73.1/78


asym_at2_avg_cor_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
100
110
120
130
140
150
160
170
180
Right In: 7216.029+/-1.937 χ²/NDF: 512126.4/15
Left Out: 8031.958+/-1.402 χ²/NDF:3361665.5/22
Right Out: 6747.736+/-1.803 χ²/NDF: 708793.3/18
Left In: 9114.278+/-1.584 χ²/NDF:1140171.8/20
Left: 8507.604+/-1.050 χ²/NDF: 4763645.9/43
Right: 6965.084+/-1.320 χ²/NDF: 1252226.6/34
In: 8353.970+/-1.226 χ²/NDF:2227759.2/36
Out: 7547.965+/-1.107 χ²/NDF:4386557.6/41
All: 7909.880+/-0.822 χ²/NDF: 6852392.5/78




Right In: 3175.689+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 836.859+/-420.032 $\chi^2$/NDF:44.7/22

Right Out: 2047.209+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 3008.527+/-427.335 $\chi^2$/NDF:9.0/20

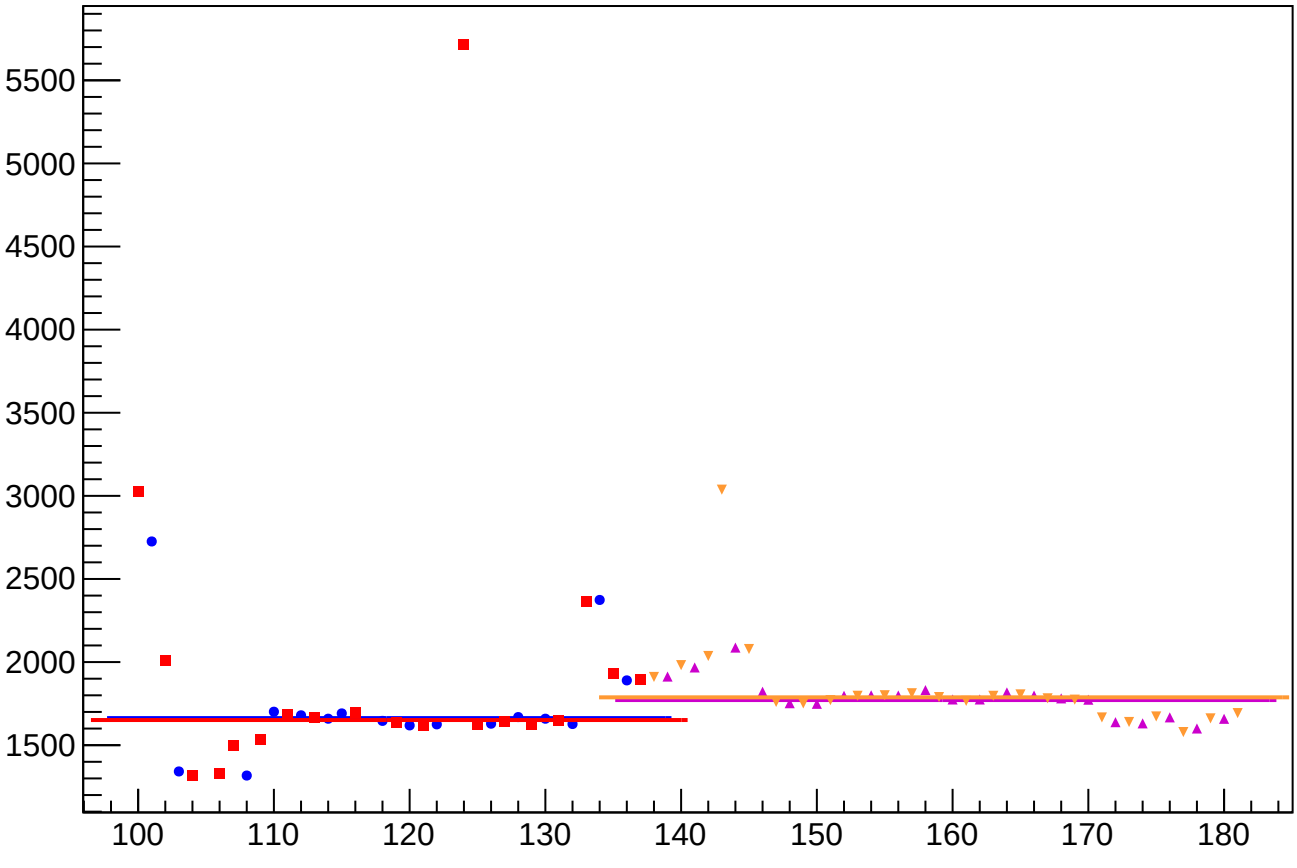
Left: 1903.978+/-299.556 $\chi^2$/NDF: 66.7/43

Right: 2605.584+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3061.433+/-353.296 $\chi^2$/NDF:13.3/36

Out: 1216.356+/-348.007 $\chi^2$/NDF:61.3/41

All: 2124.982+/-247.927 $\chi^2$/NDF: 88.4/78




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415631.0/15

Left Out: 1787.832+/-0.297 $\chi^2$/NDF:417950.3/22

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.2/18

Left In: 1771.536+/-0.302 $\chi^2$/NDF:129214.0/20

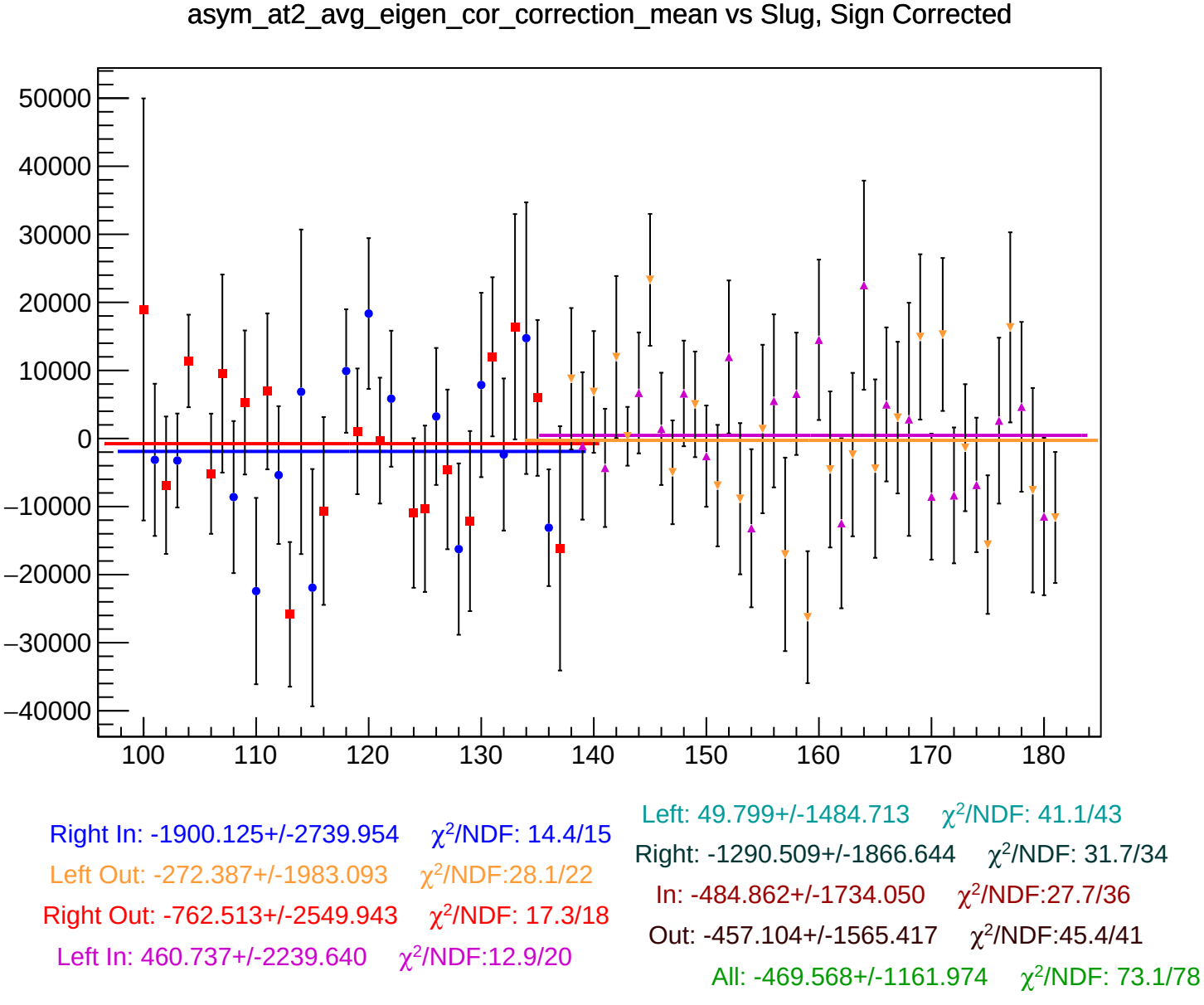
Left: 1779.825+/-0.212 $\chi^2$/NDF: 548643.6/43

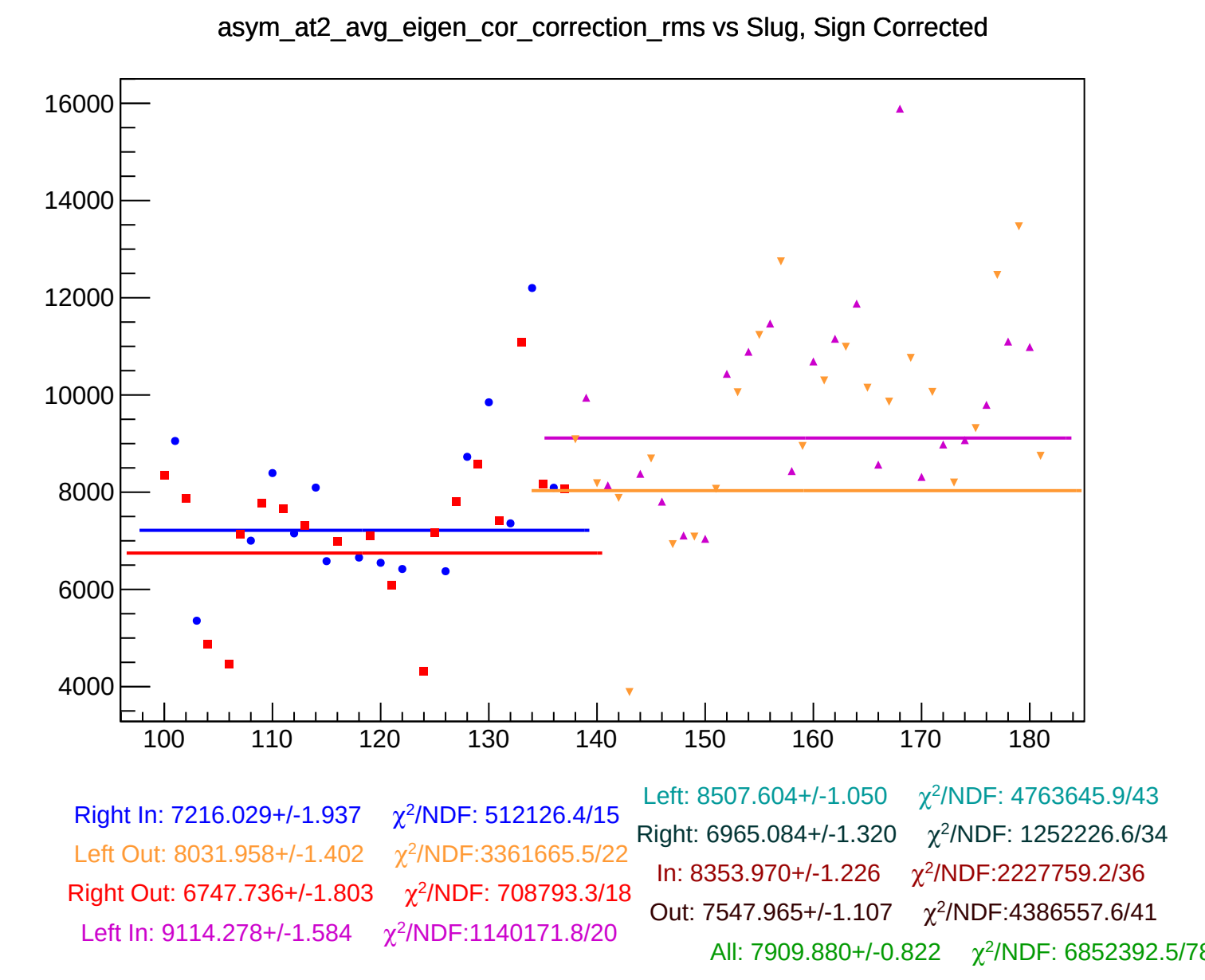
Right: 1657.051+/-0.312 $\chi^2$/NDF: 847939.7/34

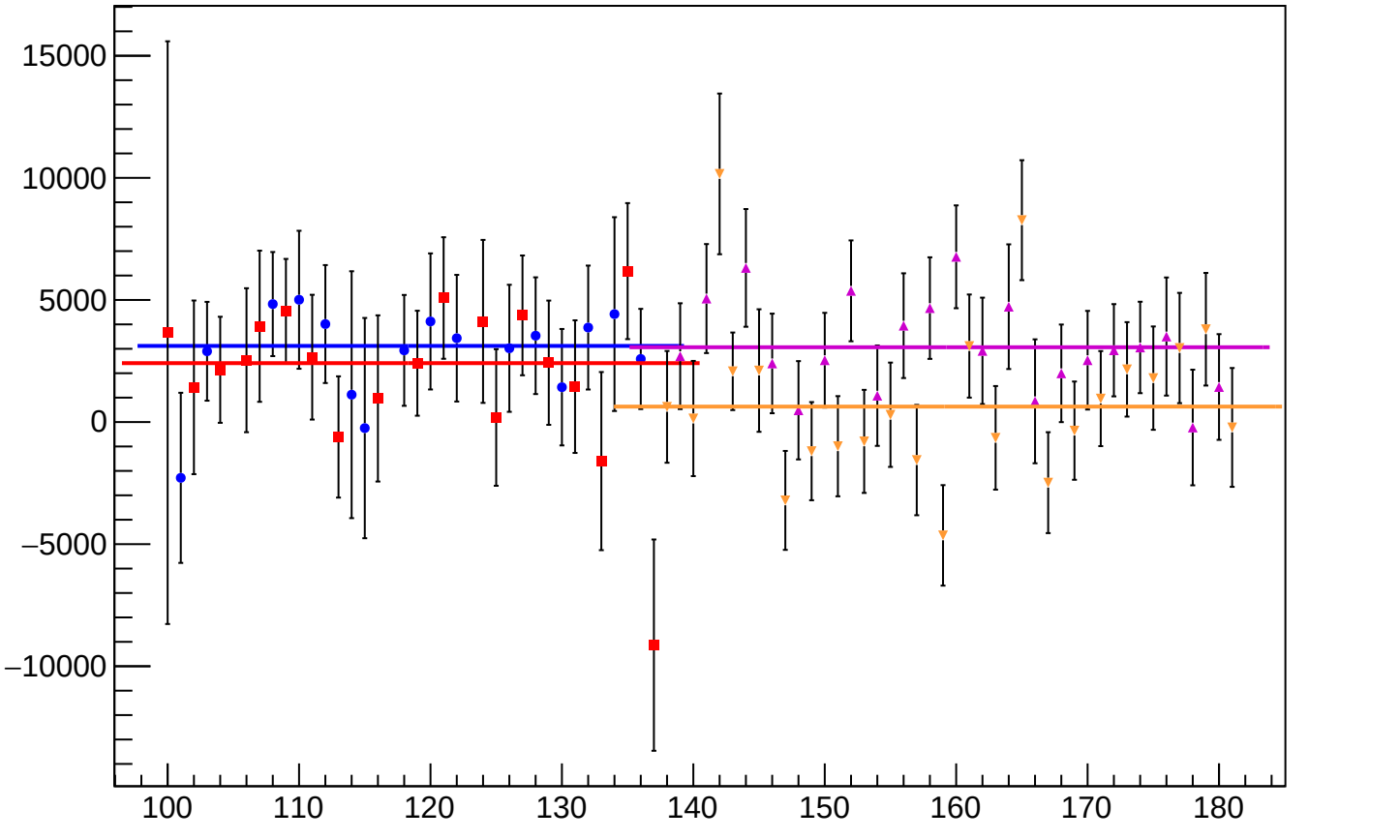
In: 1737.154+/-0.250 $\chi^2$/NDF:585752.4/36

Out: 1745.030+/-0.246 $\chi^2$/NDF:916151.7/41

All: 1741.151+/-0.175 $\chi^2$/NDF: 1502408.6/78


asym_at2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
160
170
180
Right In: -1900.125+/-2739.954 χ²/NDF: 14.4/15
Left Out: -272.387+/-1983.093 χ²/NDF:28.1/22
Right Out: -762.513+/-2549.943 χ²/NDF: 17.3/18
Left In: 460.737+/-2239.640 χ²/NDF:12.9/20
Left: 49.799+/-1484.713 χ²/NDF: 41.1/43
Right: -1290.509+/-1866.644 χ²/NDF: 31.7/34
In: -484.862+/-1734.050 χ²/NDF:27.7/36
Out: -457.104+/-1565.417 χ²/NDF:45.4/41
All: -469.568+/-1161.974 χ²/NDF: 73.1/78


asym_at2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
100
110
120
130
140
150
160
170
180
Right In: 7216.029+/-1.937 χ²/NDF: 512126.4/15
Left Out: 8031.958+/-1.402 χ²/NDF:3361665.5/22
Right Out: 6747.736+/-1.803 χ²/NDF: 708793.3/18
Left In: 9114.278+/-1.584 χ²/NDF:1140171.8/20
Left: 8507.604+/-1.050 χ²/NDF: 4763645.9/43
Right: 6965.084+/-1.320 χ²/NDF: 1252226.6/34
In: 8353.970+/-1.226 χ²/NDF:2227759.2/36
Out: 7547.965+/-1.107 χ²/NDF:4386557.6/41
All: 7909.880+/-0.822 χ²/NDF: 6852392.5/78




Right In: 3117.878+/-651.119 $\chi^2$/NDF: 5.3/15

Left Out: 632.764+/-446.108 $\chi^2$/NDF:40.6/22

Right Out: 2412.473+/-639.018 $\chi^2$/NDF: 16.0/18

Left In: 3063.695+/-464.852 $\chi^2$/NDF:14.6/20

Left: 1798.230+/-321.868 $\chi^2$/NDF: 69.5/43

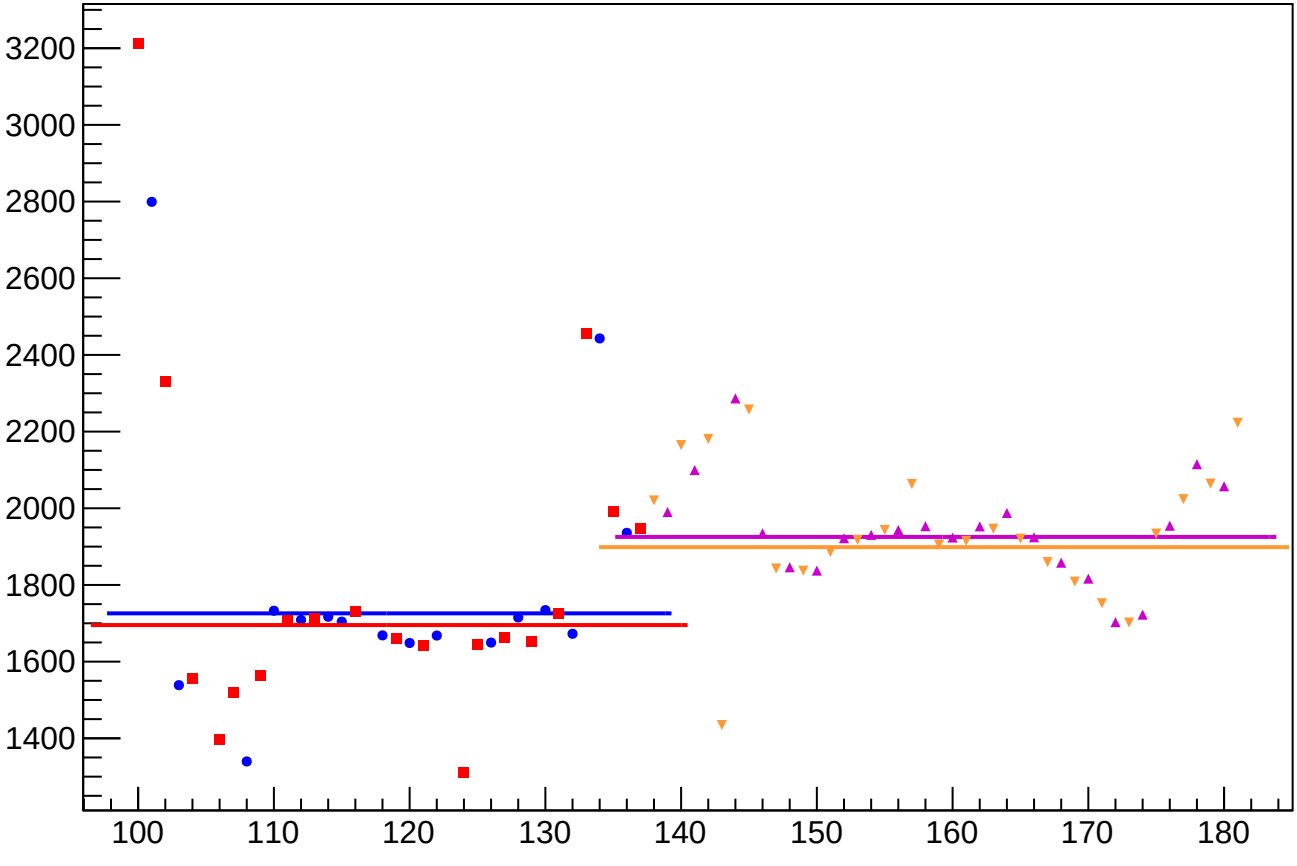
Right: 2758.560+/-456.072 $\chi^2$/NDF: 21.9/34

In: 3081.988+/-378.330 $\chi^2$/NDF:19.9/36

Out: 1215.920+/-365.789 $\chi^2$/NDF:61.9/41

All: 2117.515+/-262.974 $\chi^2$/NDF: 94.3/78

# dit_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1725.911+/-0.460 $\chi^2$/NDF: 365638.9/15

Left Out: 1898.625+/-0.315 $\chi^2$/NDF:363319.6/22

Right Out: 1695.387+/-0.452 $\chi^2$/NDF: 285622.0/18

Left In: 1925.230+/-0.329 $\chi^2$/NDF:148043.7/20

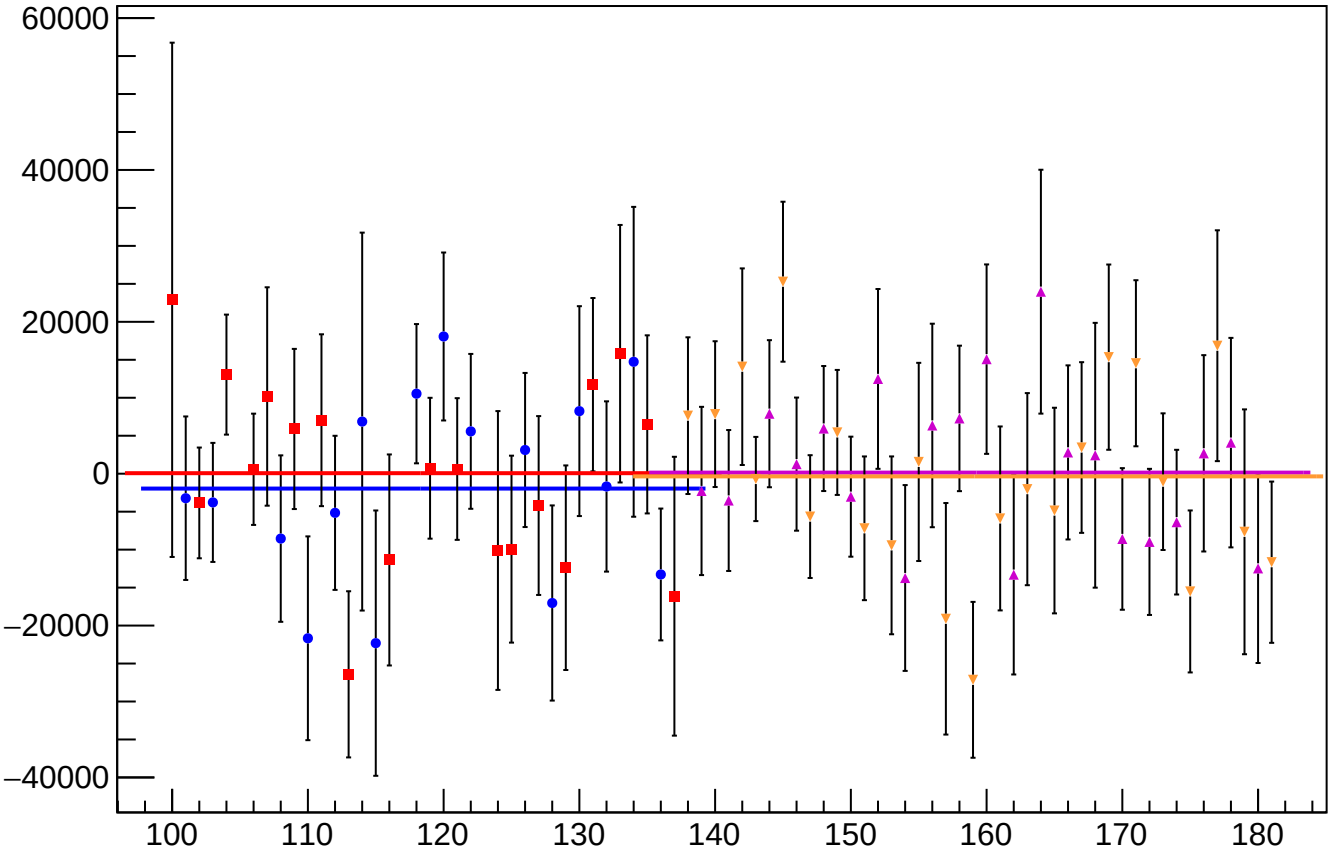
Left: 1911.381+/-0.228 $\chi^2$/NDF: 514773.6/43

Right: 1710.357+/-0.322 $\chi^2$/NDF: 653500.6/34

In: 1857.937+/-0.268 $\chi^2$/NDF:637825.1/36

Out: 1831.997+/-0.259 $\chi^2$/NDF:785027.5/41

All: 1844.528+/-0.186 $\chi^2$/NDF: 1427712.8/78




Right In: -1958.559+/-2798.309 $\chi^2$/NDF: 14.4/15

Left Out: -354.044+/-2153.349 $\chi^2$/NDF:27.5/22

Right Out: 68.156+/-2529.527 $\chi^2$/NDF: 16.1/18

Left In: 141.577+/-2341.010 $\chi^2$/NDF:12.8/20

Left: -126.892+/-1584.845 $\chi^2$/NDF: 40.3/43

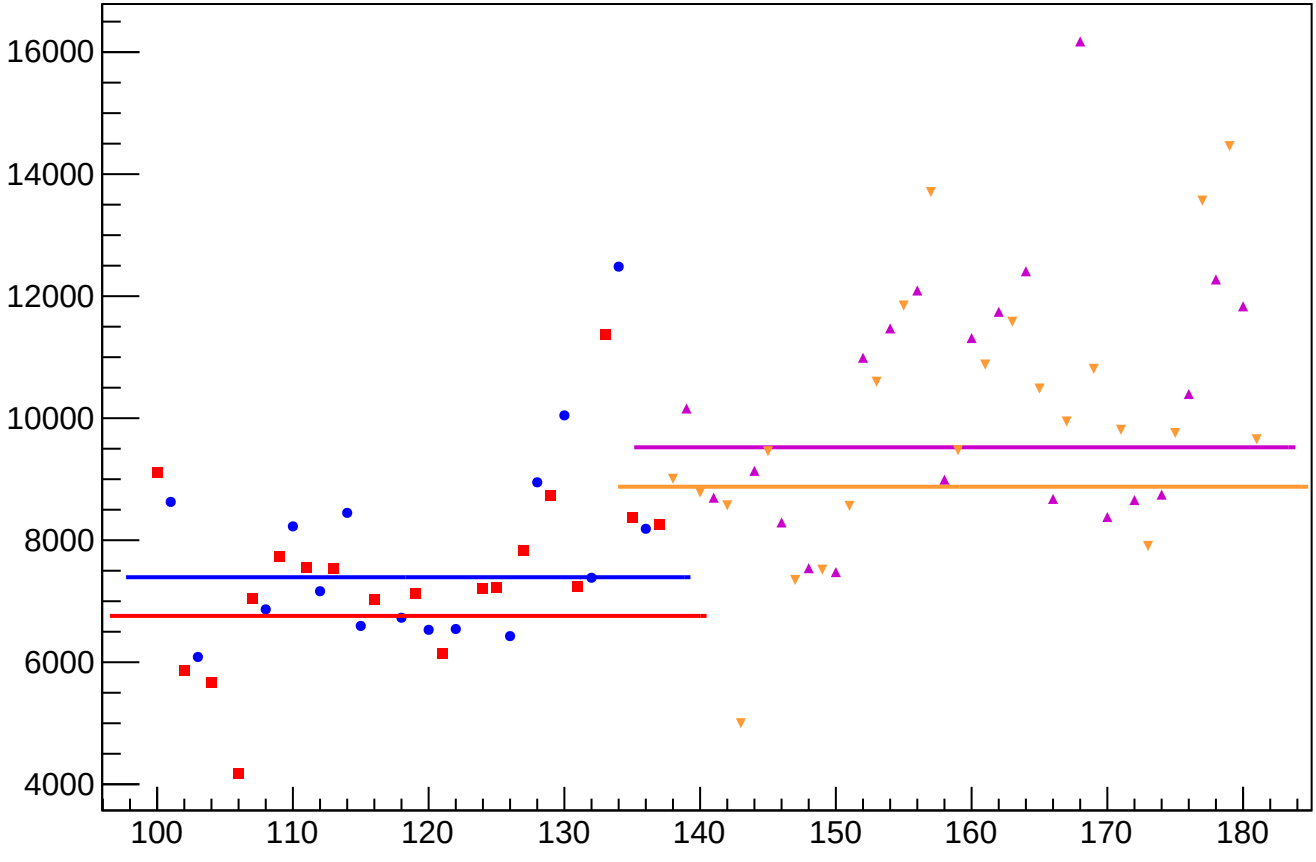
Right: -843.216+/-1876.494 $\chi^2$/NDF: 30.8/34

In: -723.088+/-1795.543 $\chi^2$/NDF:27.5/36

Out: -176.642+/-1639.681 $\chi^2$/NDF:43.6/41

All: -425.123+/-1210.789 $\chi^2$/NDF: 71.2/78

# asym_at2_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 7393.622+/-1.979 $\chi^2$/NDF: 401826.8/15

Left Out: 8876.725+/-1.523 $\chi^2$/NDF:2203131.3/22

Right Out: 6759.428+/-1.789 $\chi^2$/NDF: 644290.9/18

Left In: 9523.156+/-1.655 $\chi^2$/NDF:1157998.5/20

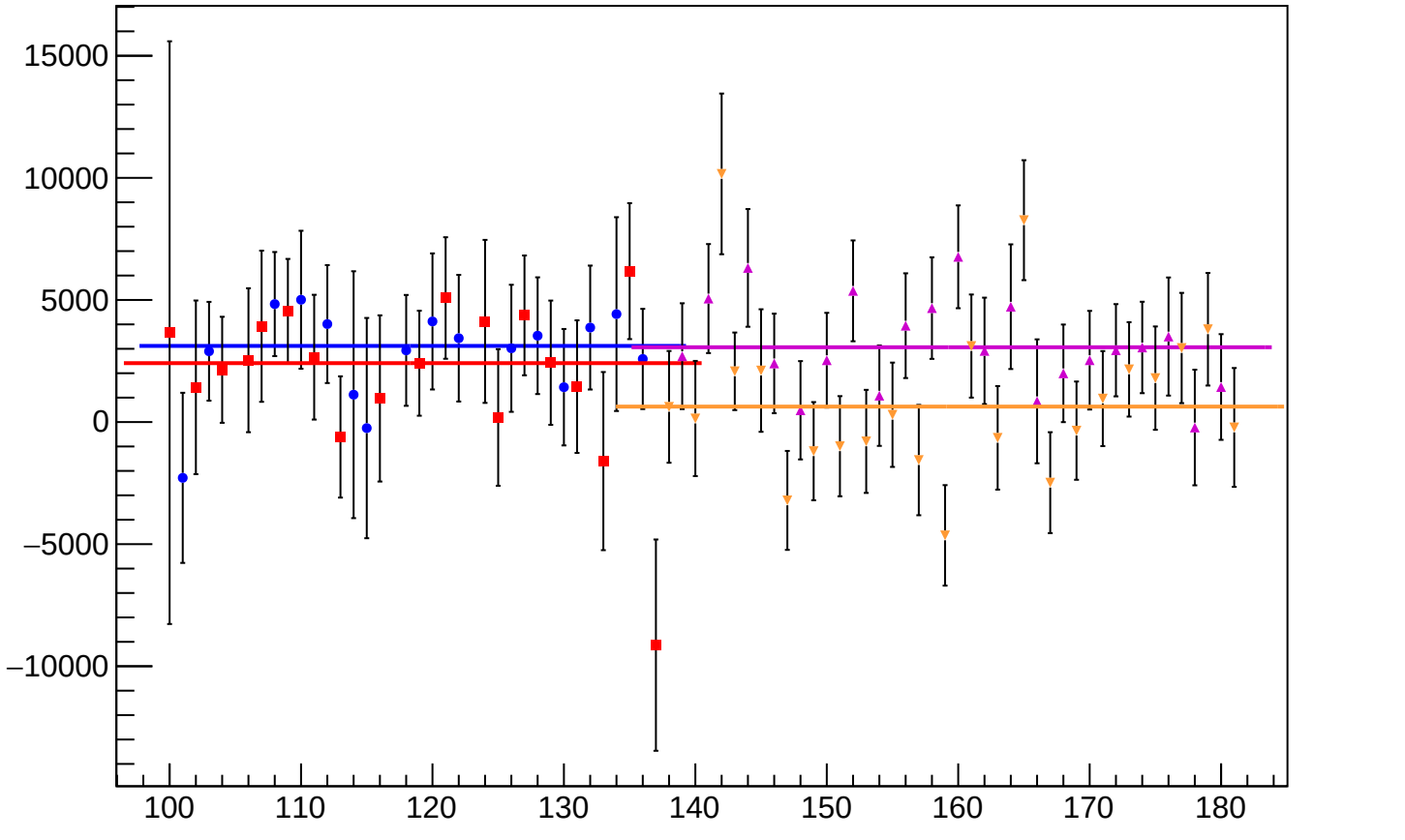
Left: 9172.996+/-1.121 $\chi^2$/NDF: 3443735.7/43

Right: 7044.612+/-1.327 $\chi^2$/NDF: 1102650.4/34

In: 8646.387+/-1.270 $\chi^2$/NDF:2241210.3/36

Out: 7987.070+/-1.159 $\chi^2$/NDF:3659888.0/41

All: 8286.875+/-0.856 $\chi^2$/NDF: 6048141.8/78




Right In: 3117.882+/-651.118 $\chi^2$/NDF: 5.3/15

Left Out: 632.753+/-446.108 $\chi^2$/NDF:40.6/22

Right Out: 2412.481+/-639.018 $\chi^2$/NDF: 16.0/18

Left In: 3063.697+/-464.853 $\chi^2$/NDF:14.6/20

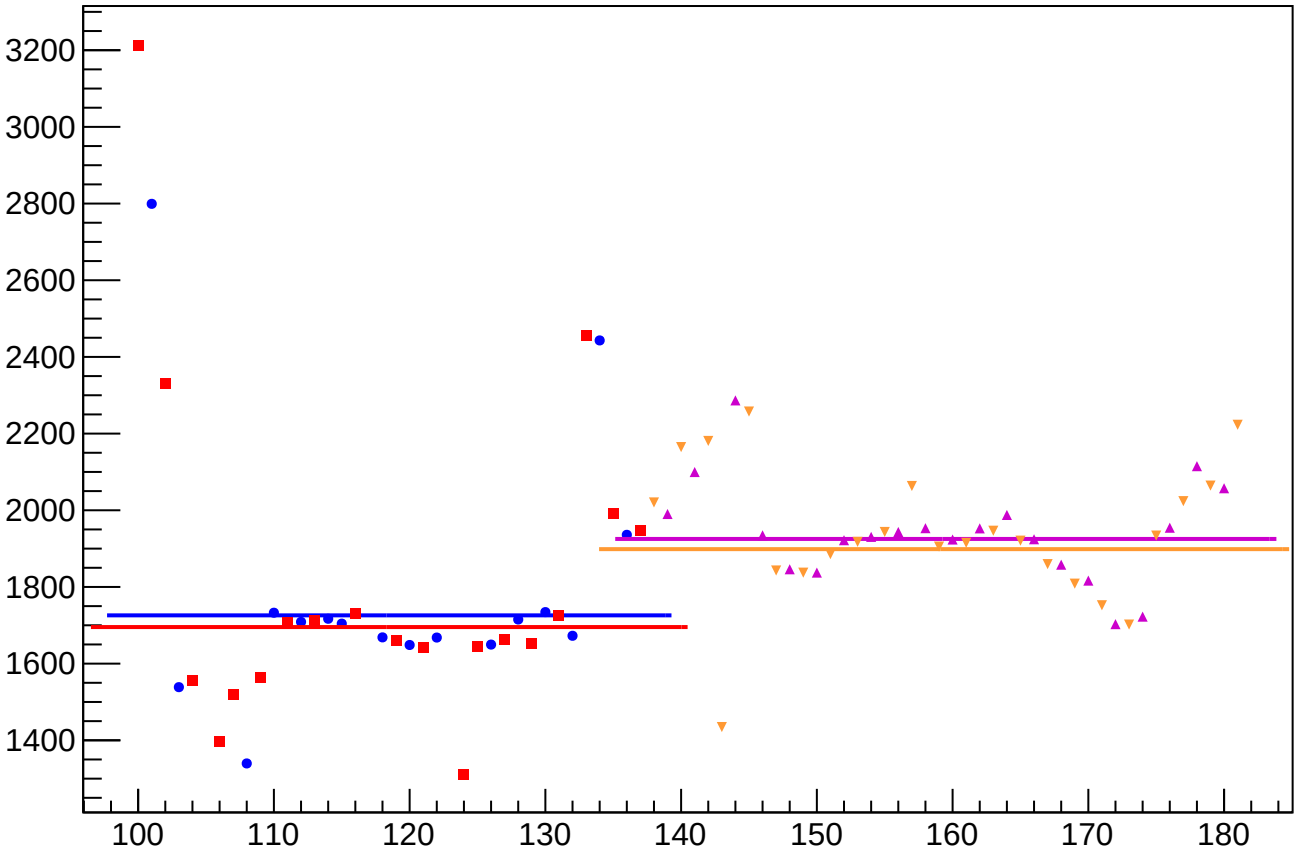
Left: 1798.226+/-321.869 $\chi^2$/NDF: 69.5/43

Right: 2758.566+/-456.072 $\chi^2$/NDF: 21.9/34

In: 3081.991+/-378.330 $\chi^2$/NDF:19.9/36

Out: 1215.917+/-365.790 $\chi^2$/NDF:61.9/41

All: 2117.515+/-262.974 $\chi^2$/NDF: 94.3/78




Right In: 1725.910+/-0.460 $\chi^2$/NDF: 365639.0/15

Left Out: 1898.628+/-0.315 $\chi^2$/NDF:363327.4/22

Right Out: 1695.387+/-0.452 $\chi^2$/NDF: 285622.3/18

Left In: 1925.234+/-0.329 $\chi^2$/NDF:148051.3/20

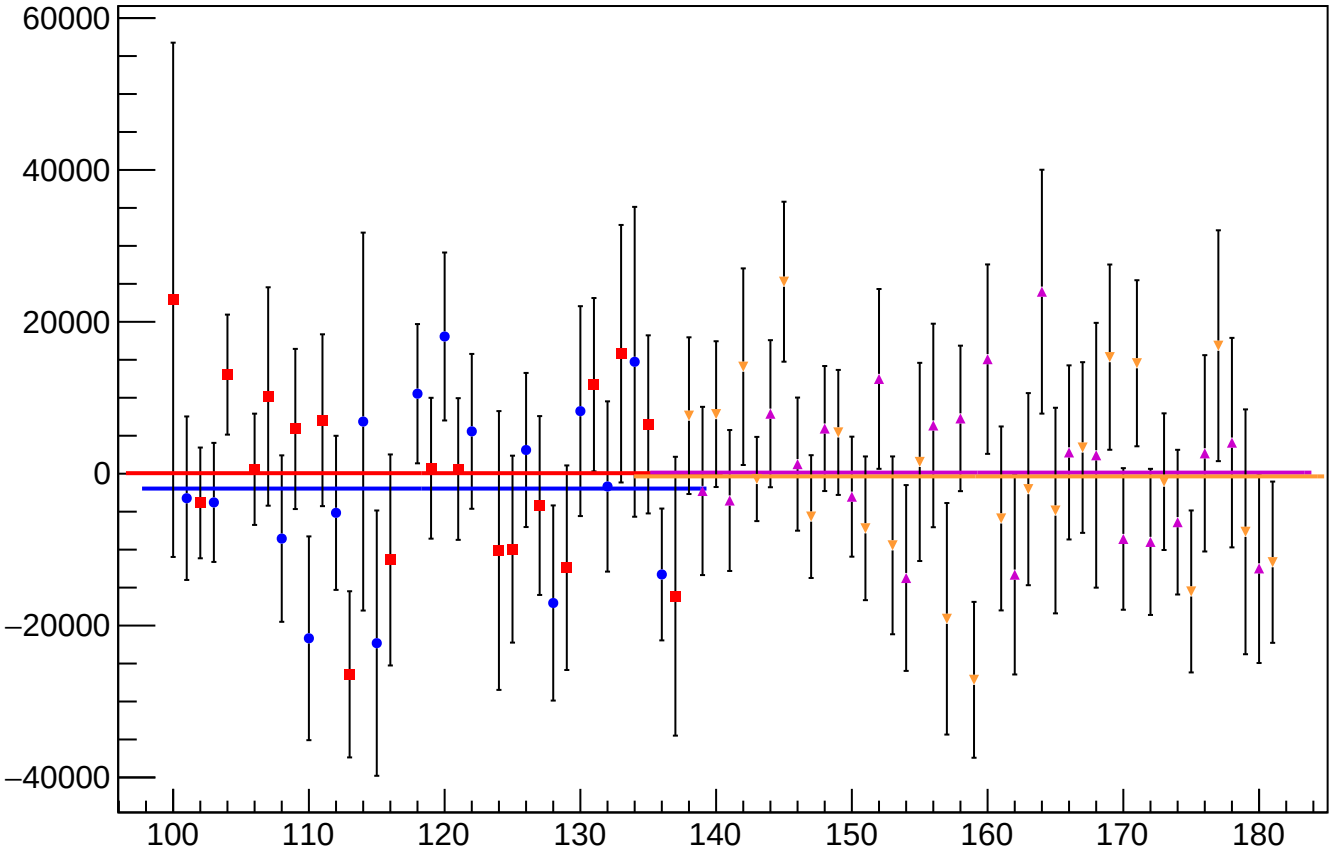
Left: 1911.384+/-0.228 $\chi^2$/NDF: 514789.2/43

Right: 1710.357+/-0.322 $\chi^2$/NDF: 653500.9/34

In: 1857.939+/-0.268 $\chi^2$/NDF:637837.4/36

Out: 1831.999+/-0.259 $\chi^2$/NDF:785040.1/41

All: 1844.530+/-0.186 $\chi^2$/NDF: 1427737.7/78




Right In: -1958.538+/-2798.302 $\chi^2$/NDF: 14.4/15

Left Out: -354.051+/-2153.353 $\chi^2$/NDF:27.5/22

Right Out: 68.163+/-2529.521 $\chi^2$/NDF: 16.1/18

Left In: 141.576+/-2341.014 $\chi^2$/NDF:12.8/20

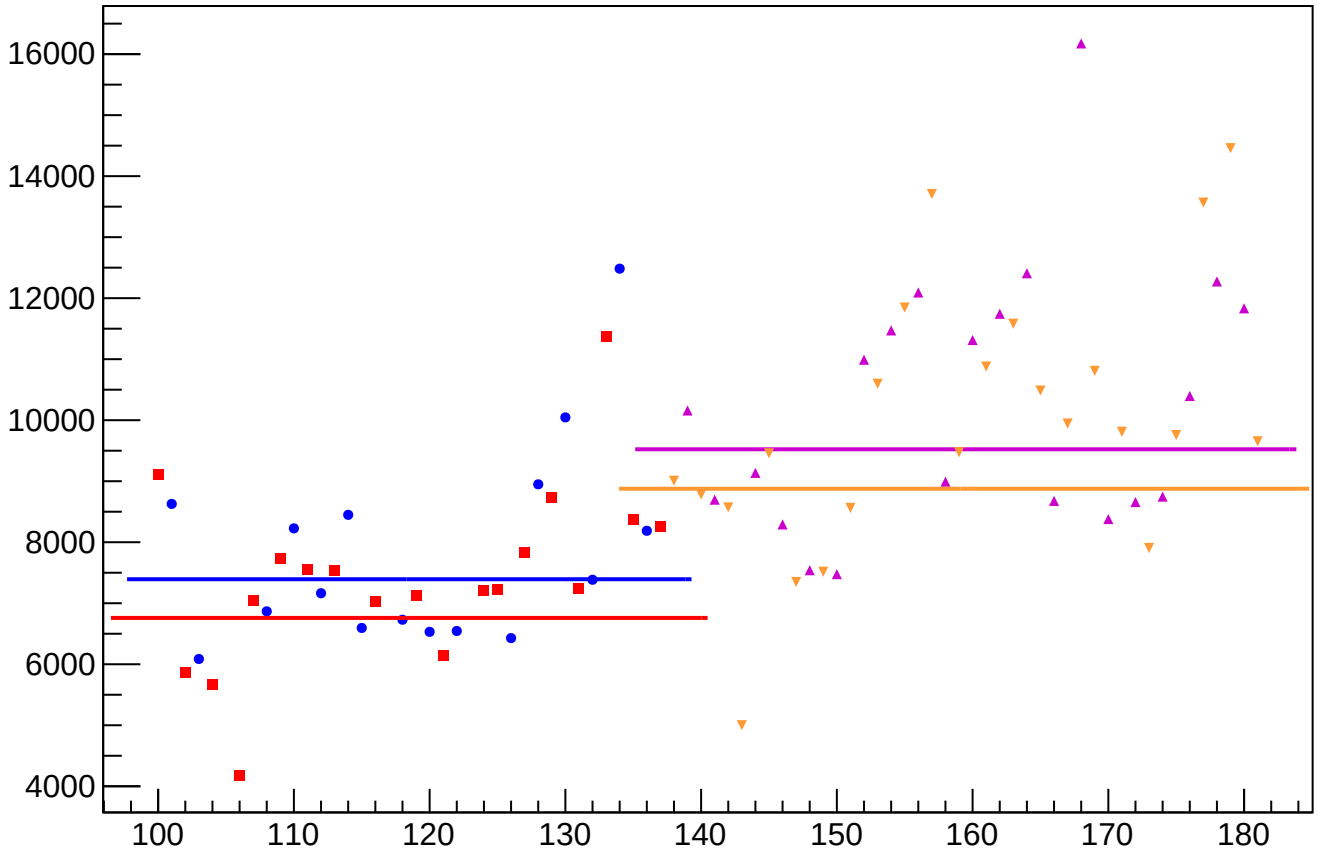
Left: -126.896+/-1584.847 $\chi^2$/NDF: 40.3/43

Right: -843.203+/-1876.490 $\chi^2$/NDF: 30.8/34

In: -723.084+/-1795.543 $\chi^2$/NDF:27.5/36

Out: -176.642+/-1639.681 $\chi^2$/NDF:43.6/41

All: -425.121+/-1210.789 $\chi^2$/NDF: 71.2/78




Right In: 7393.605+/-1.979 $\chi^2$/NDF: 401829.0/15

Left Out: 8876.740+/-1.523 $\chi^2$/NDF:2203132.8/22

Right Out: 6759.413+/-1.789 $\chi^2$/NDF: 644289.7/18

Left In: 9523.170+/-1.655 $\chi^2$/NDF:1158002.1/20

Left: 9173.010+/-1.121 $\chi^2$/NDF: 3443740.6/43

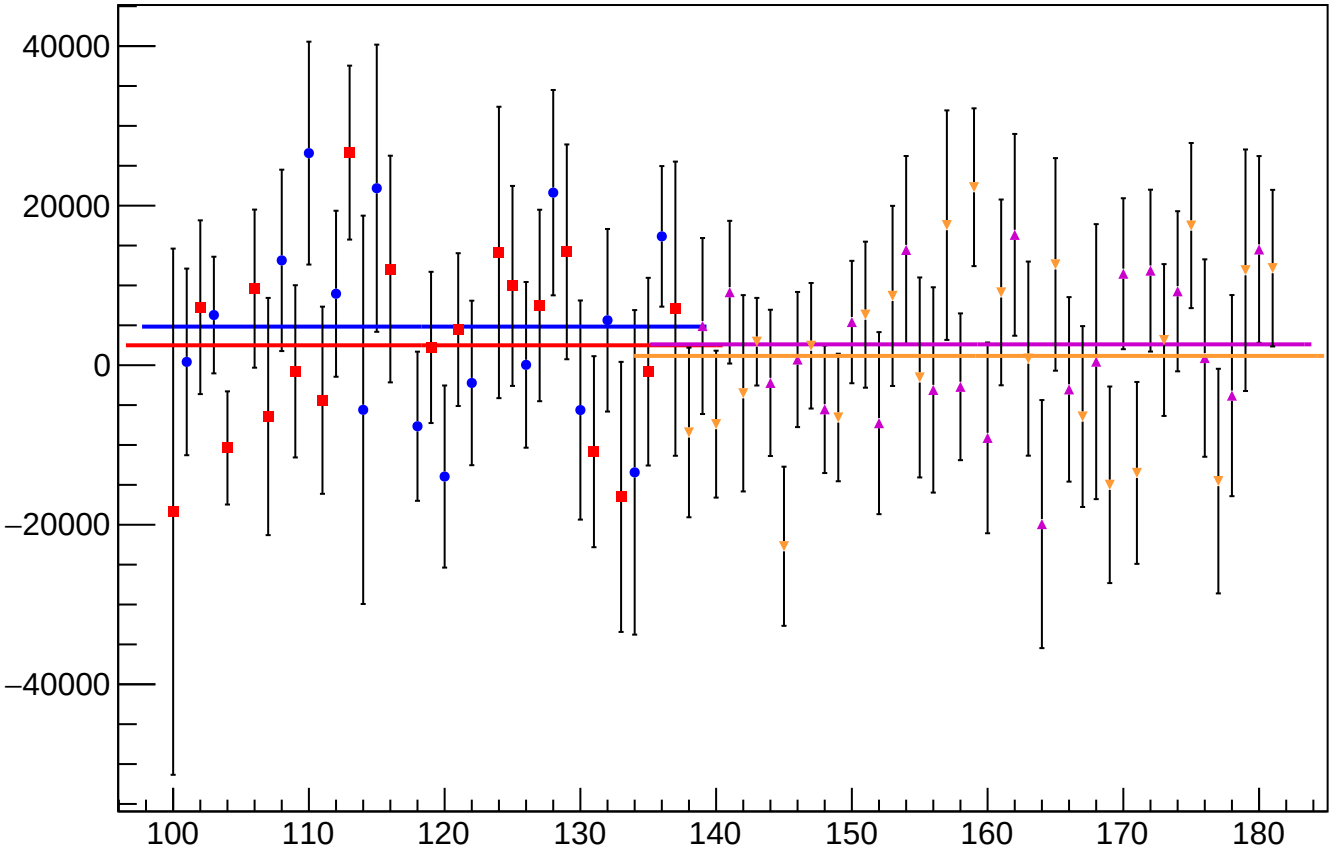
Right: 7044.596+/-1.327 $\chi^2$/NDF: 1102651.2/34

In: 8646.384+/-1.270 $\chi^2$/NDF:2241237.7/36

Out: 7987.068+/-1.159 $\chi^2$/NDF:3659911.3/41

All: 8286.873+/-0.856 $\chi^2$/NDF: 6048192.1/78

# asym_at2_avg_mean vs Slug, Sign Corrected




Right In: 4837.820+/-2828.918 $\chi^2$/NDF: 14.3/15

Left Out: 1165.572+/-2106.015 $\chi^2$/NDF:25.9/22

Right Out: 2495.844+/-2695.530 $\chi^2$/NDF: 14.9/18

Left In: 2613.918+/-2287.517 $\chi^2$/NDF:12.3/20

Left: 1830.014+/-1549.376 $\chi^2$/NDF: 38.4/43

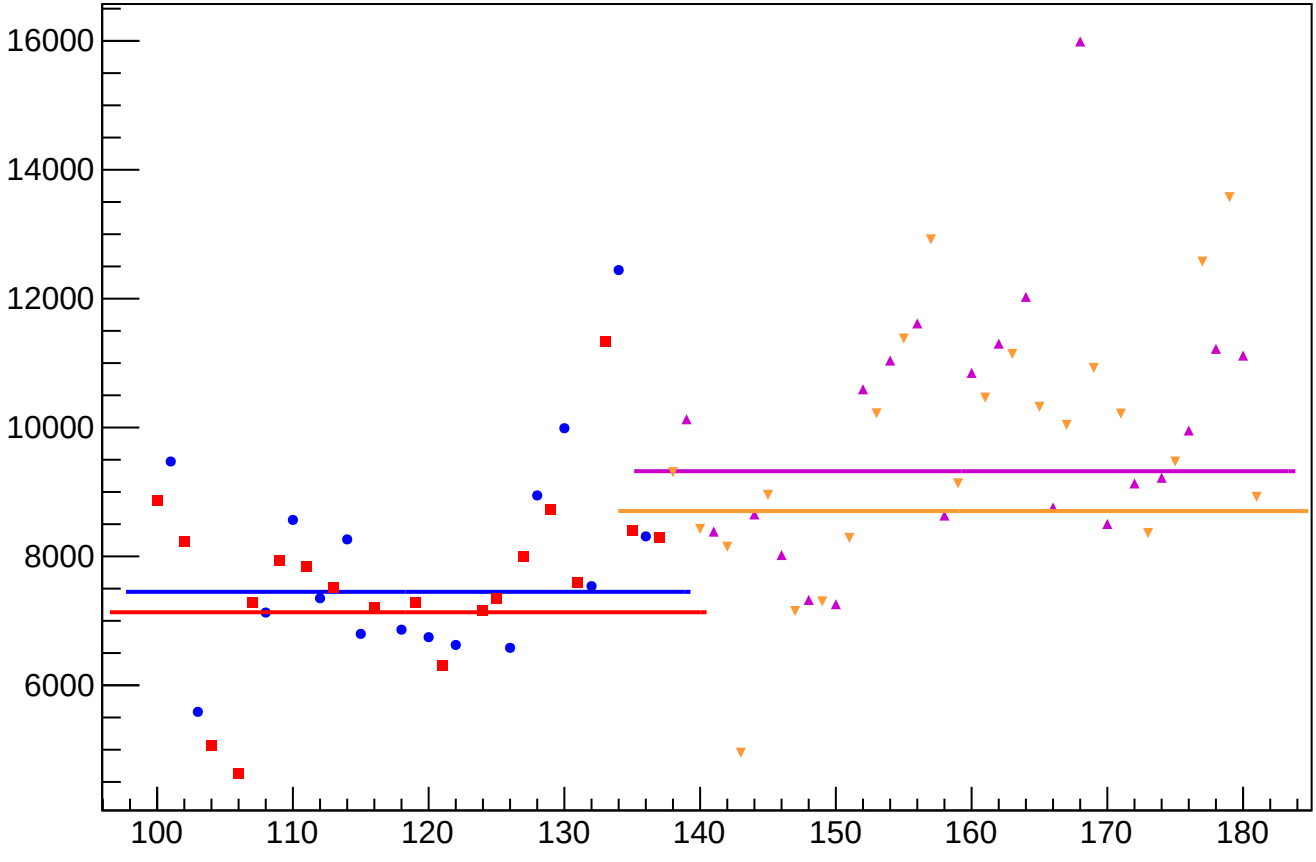
Right: 3610.318+/-1951.480 $\chi^2$/NDF: 29.6/34

In: 3493.150+/-1778.747 $\chi^2$/NDF:27.0/36

Out: 1669.808+/-1659.552 $\chi^2$/NDF:40.9/41

All: 2518.345+/-1213.433 $\chi^2$/NDF: 68.5/78

# asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 7449.985+/-2.000 $\chi^2$/NDF: 486427.7/15

Left Out: 8703.680+/-1.489 $\chi^2$/NDF:2048950.5/22

Right Out: 7133.115+/-1.906 $\chi^2$/NDF: 556993.0/18

Left In: 9322.243+/-1.618 $\chi^2$/NDF:1062093.2/20

Left: 8987.451+/-1.096 $\chi^2$/NDF: 3190195.2/43

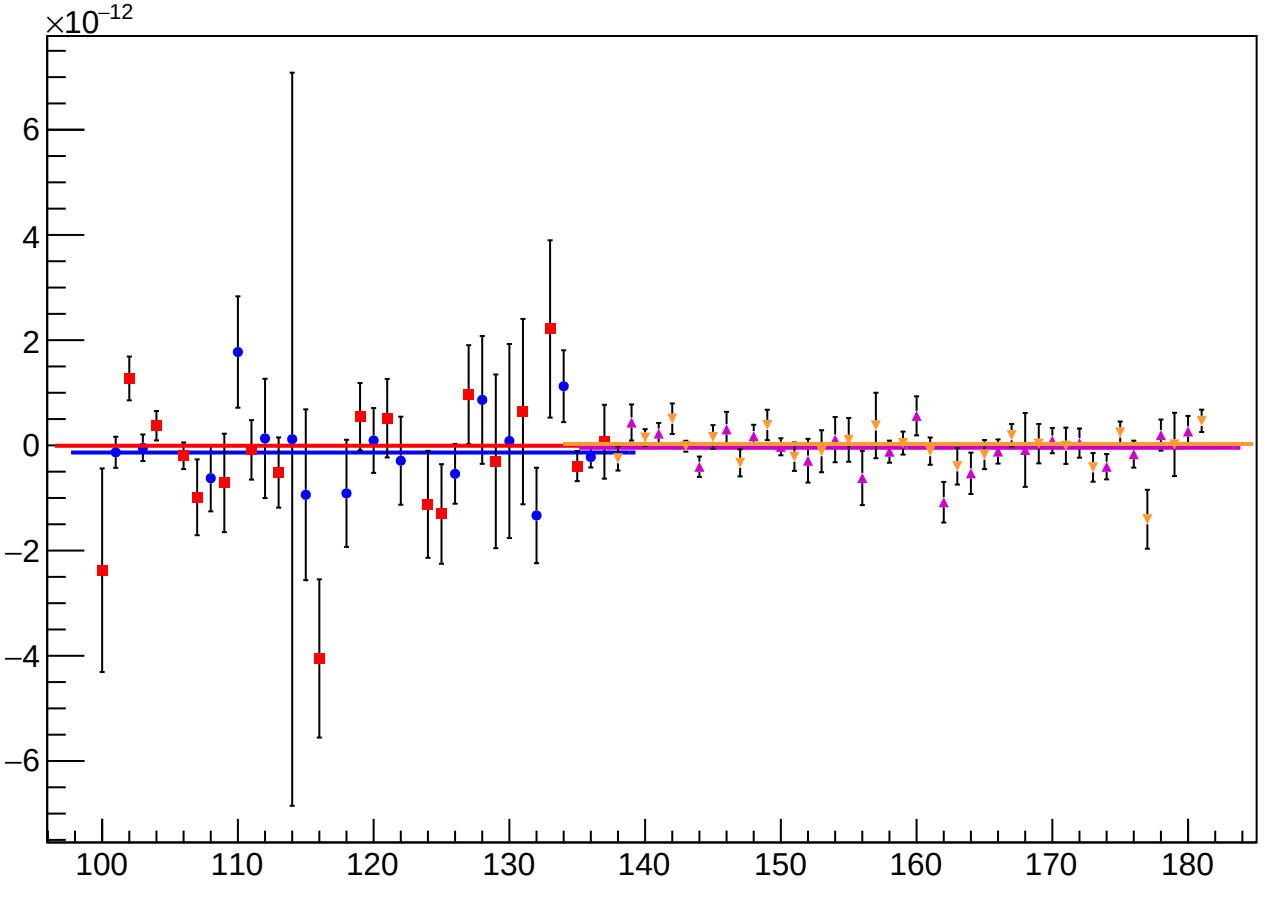
Right: 7283.894+/-1.380 $\chi^2$/NDF: 1056573.7/34

In: 8582.028+/-1.258 $\chi^2$/NDF:2078214.8/36

Out: 8108.310+/-1.173 $\chi^2$/NDF:3027591.2/41

All: 8328.760+/-0.858 $\chi^2$/NDF: 5181646.8/78

asym_at2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:27.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.4/20

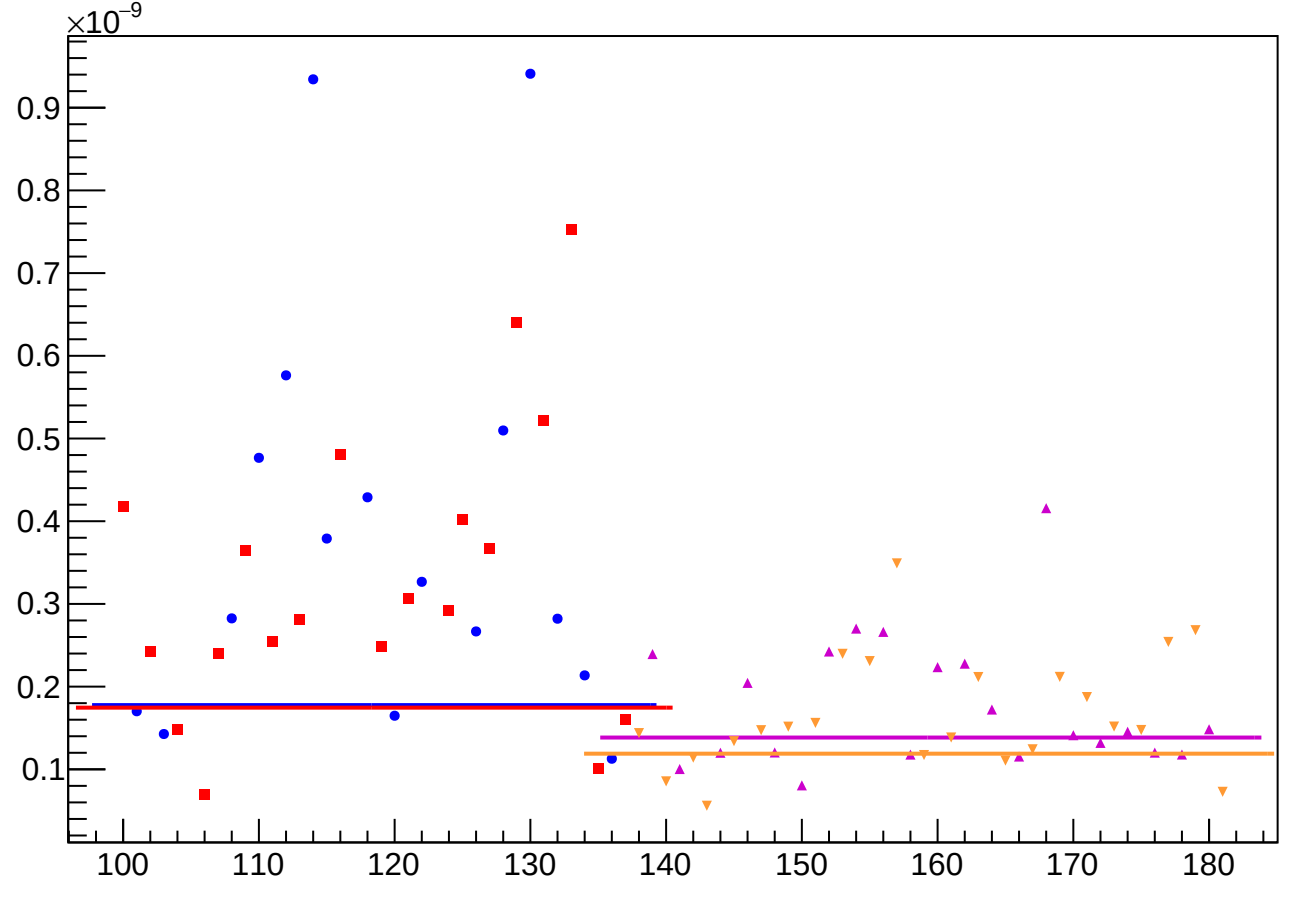
Left: -0.000+/-0.000 $\chi^2$/NDF: 55.7/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 44.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:39.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:60.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 101.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1530066.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2310429.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1641366.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1649242.5/20

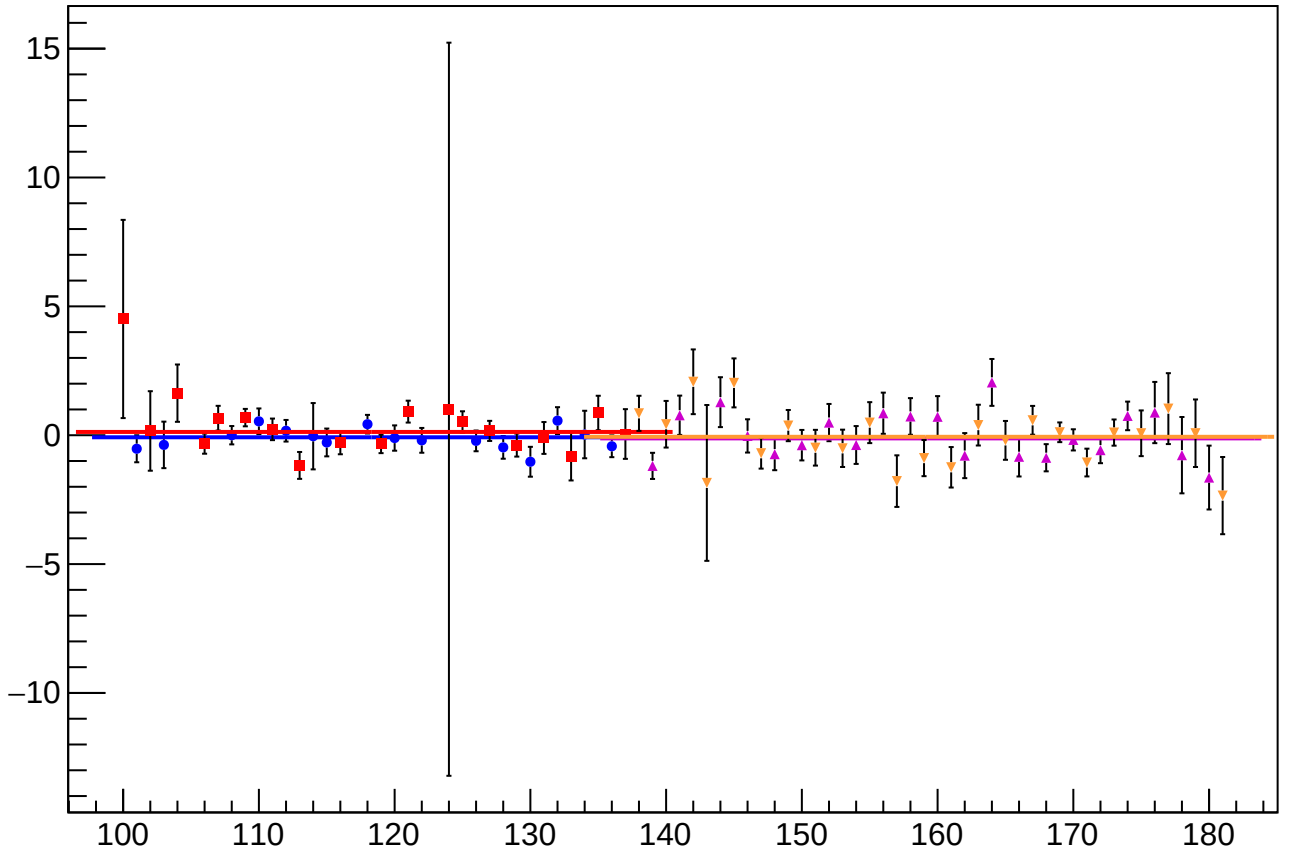
Left: 0.000+/-0.000 $\chi^2$/NDF: 4088211.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3172068.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:3352460.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4302917.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 7803920.5/78




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: -0.062+/-0.150 $\chi^2$/NDF:28.1/22

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.123+/-0.147 $\chi^2$/NDF:28.9/20

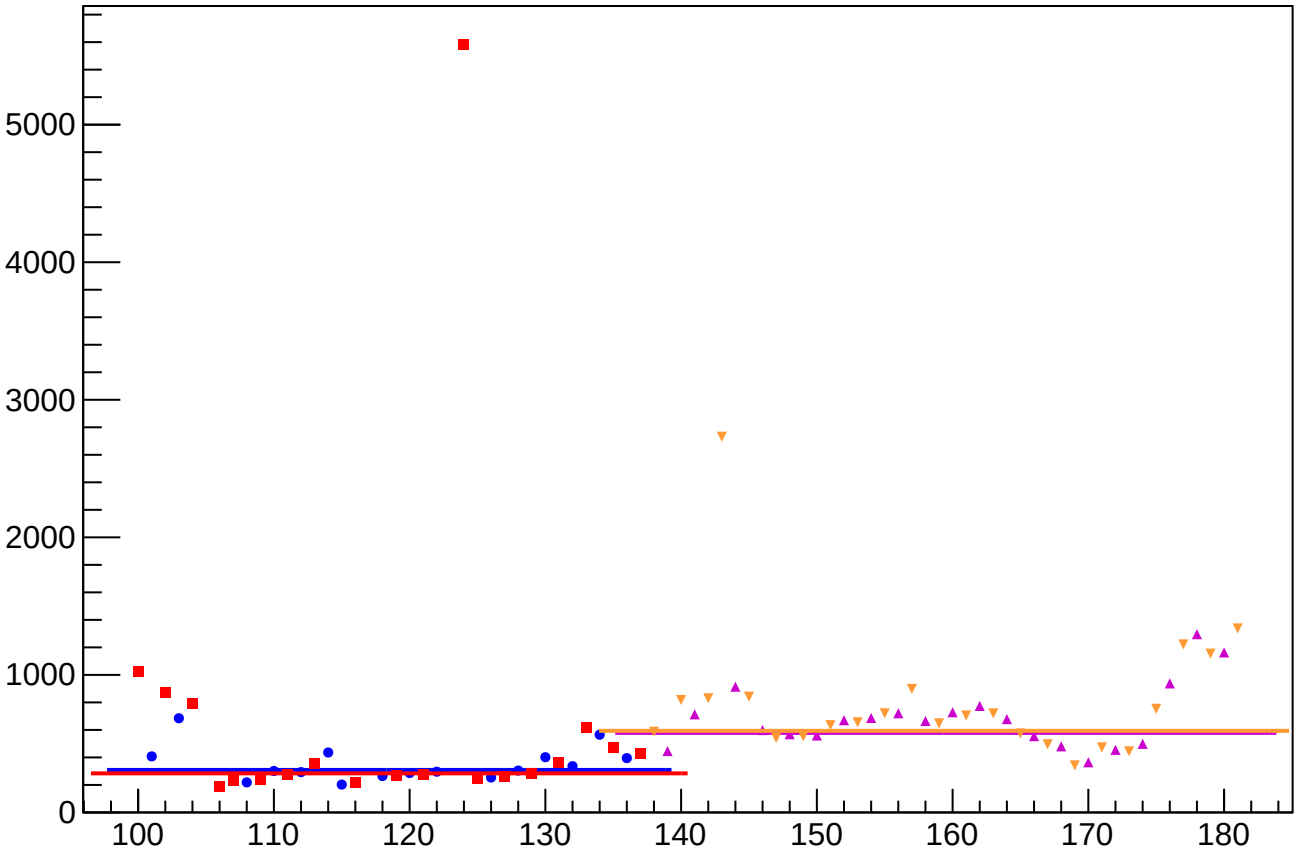
Left: -0.093+/-0.105 $\chi^2$/NDF: 57.0/43

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.097+/-0.094 $\chi^2$/NDF:39.7/36

Out: 0.056+/-0.092 $\chi^2$/NDF:54.3/41

All: -0.019+/-0.066 $\chi^2$/NDF: 95.4/78




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014604.9/15

Left Out: 593.396+/-0.106 $\chi^2$/NDF:4258638.2/22

Right Out: 284.189+/-0.083 $\chi^2$/NDF: 1856451.4/18

Left In: 578.385+/-0.104 $\chi^2$/NDF:2678720.9/20

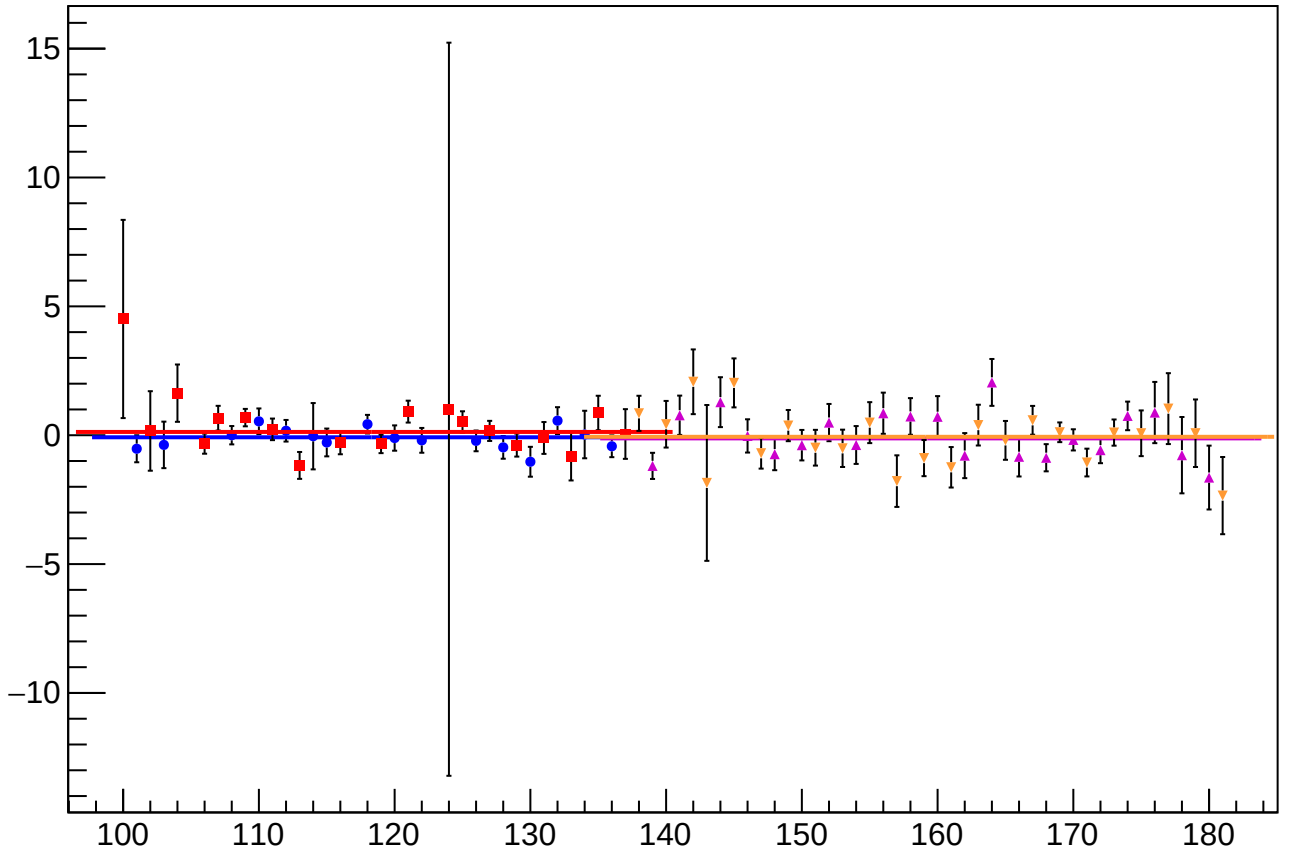
Left: 585.763+/-0.074 $\chi^2$/NDF: 6947569.2/43

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914551.5/34

In: 418.526+/-0.066 $\chi^2$/NDF:7661887.4/36

Out: 401.210+/-0.065 $\chi^2$/NDF:11409731.2/41

All: 409.707+/-0.047 $\chi^2$/NDF: 19106259.7/78




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: -0.062+/-0.150 $\chi^2$/NDF:28.1/22

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.123+/-0.147 $\chi^2$/NDF:28.9/20

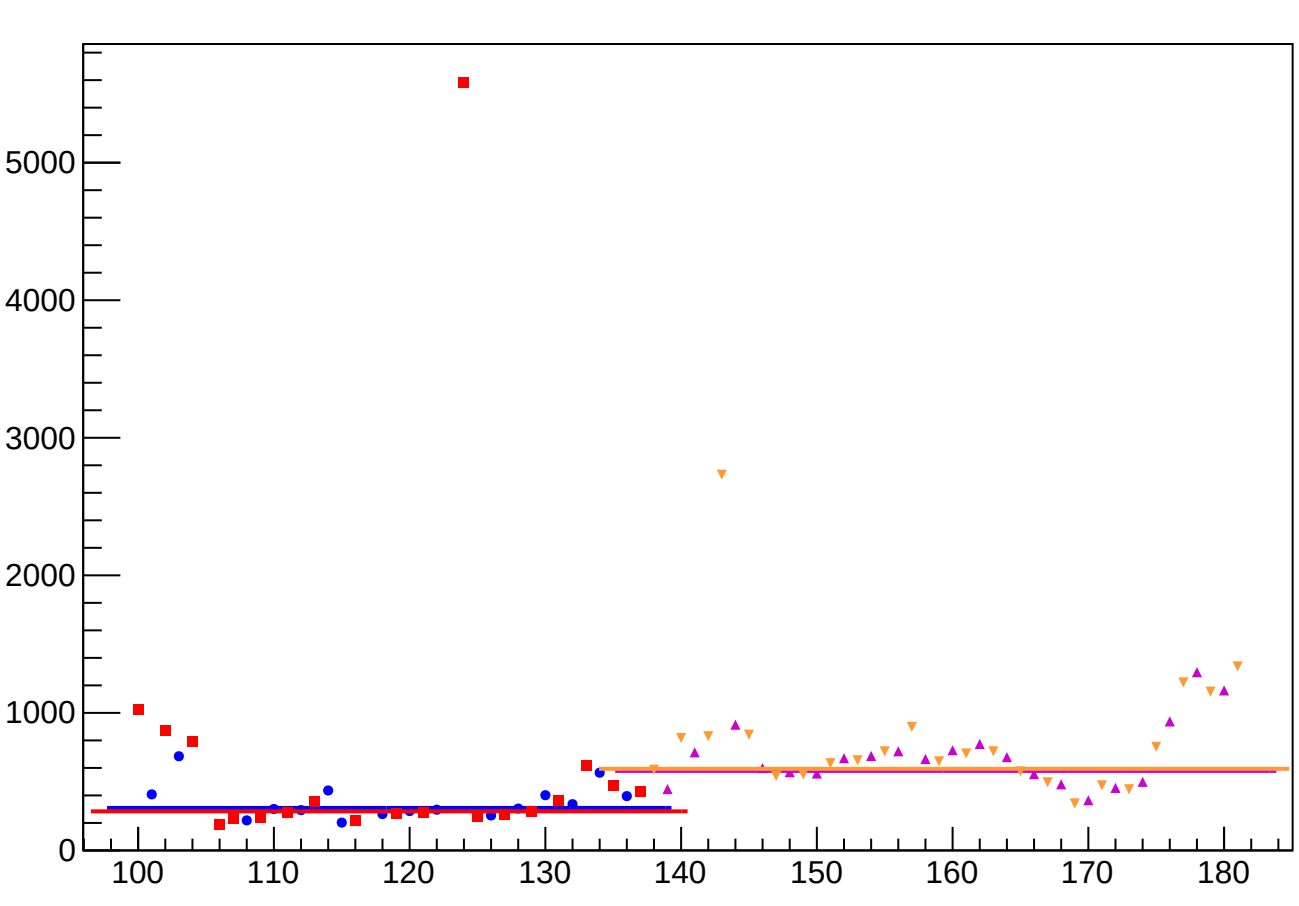
Left: -0.093+/-0.105 $\chi^2$/NDF: 57.0/43

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.097+/-0.094 $\chi^2$/NDF:39.7/36

Out: 0.056+/-0.092 $\chi^2$/NDF:54.3/41

All: -0.019+/-0.066 $\chi^2$/NDF: 95.4/78




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014604.9/15

Left Out: 593.396+/-0.106 $\chi^2$/NDF:4258638.2/22

Right Out: 284.189+/-0.083 $\chi^2$/NDF: 1856451.4/18

Left In: 578.385+/-0.104 $\chi^2$/NDF:2678720.9/20

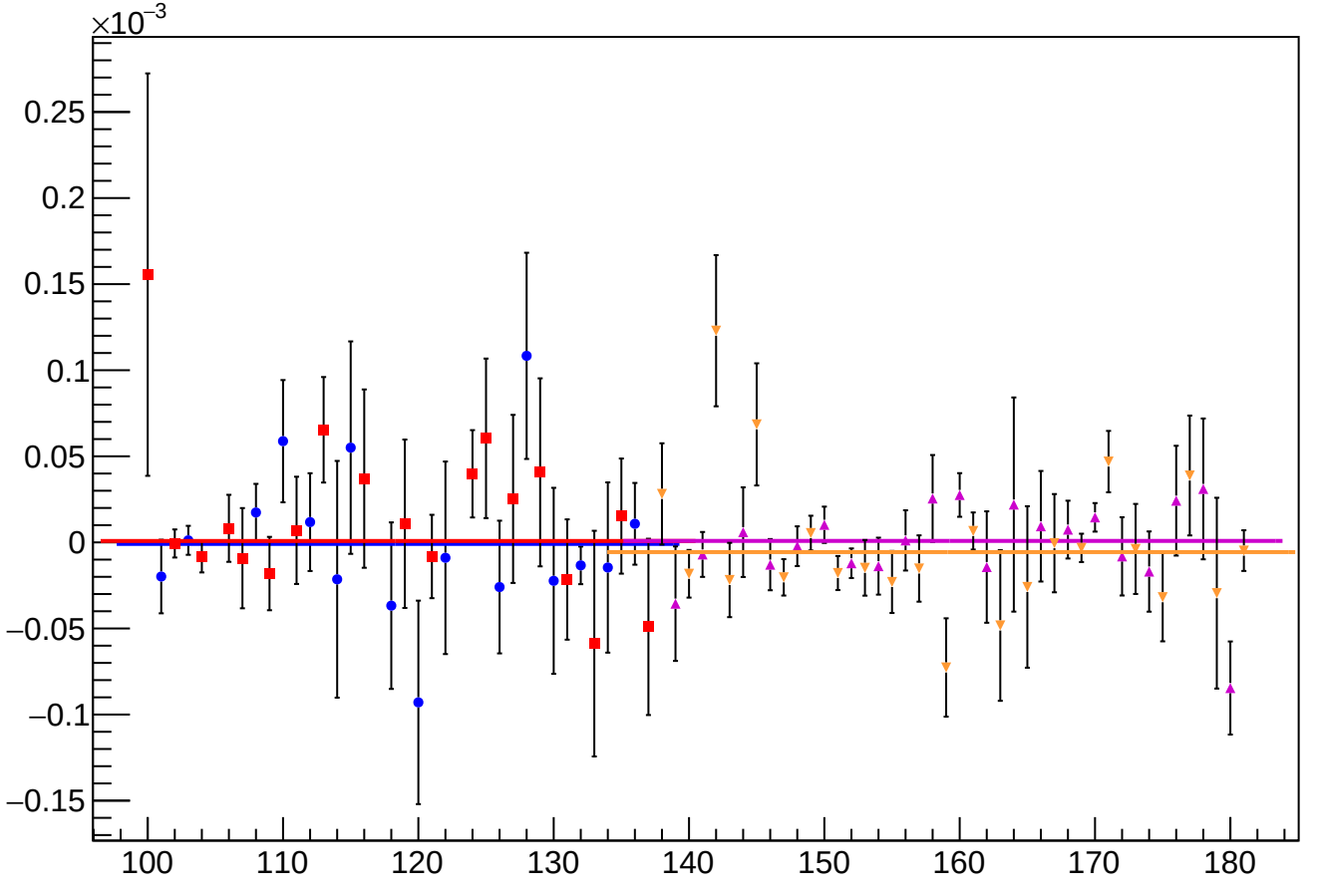
Left: 585.763+/-0.074 $\chi^2$/NDF: 6947569.2/43

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914551.5/34

In: 418.526+/-0.066 $\chi^2$/NDF:7661887.4/36

Out: 401.210+/-0.065 $\chi^2$/NDF:11409731.2/41

All: 409.707+/-0.047 $\chi^2$/NDF: 19106259.7/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:41.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.9/20

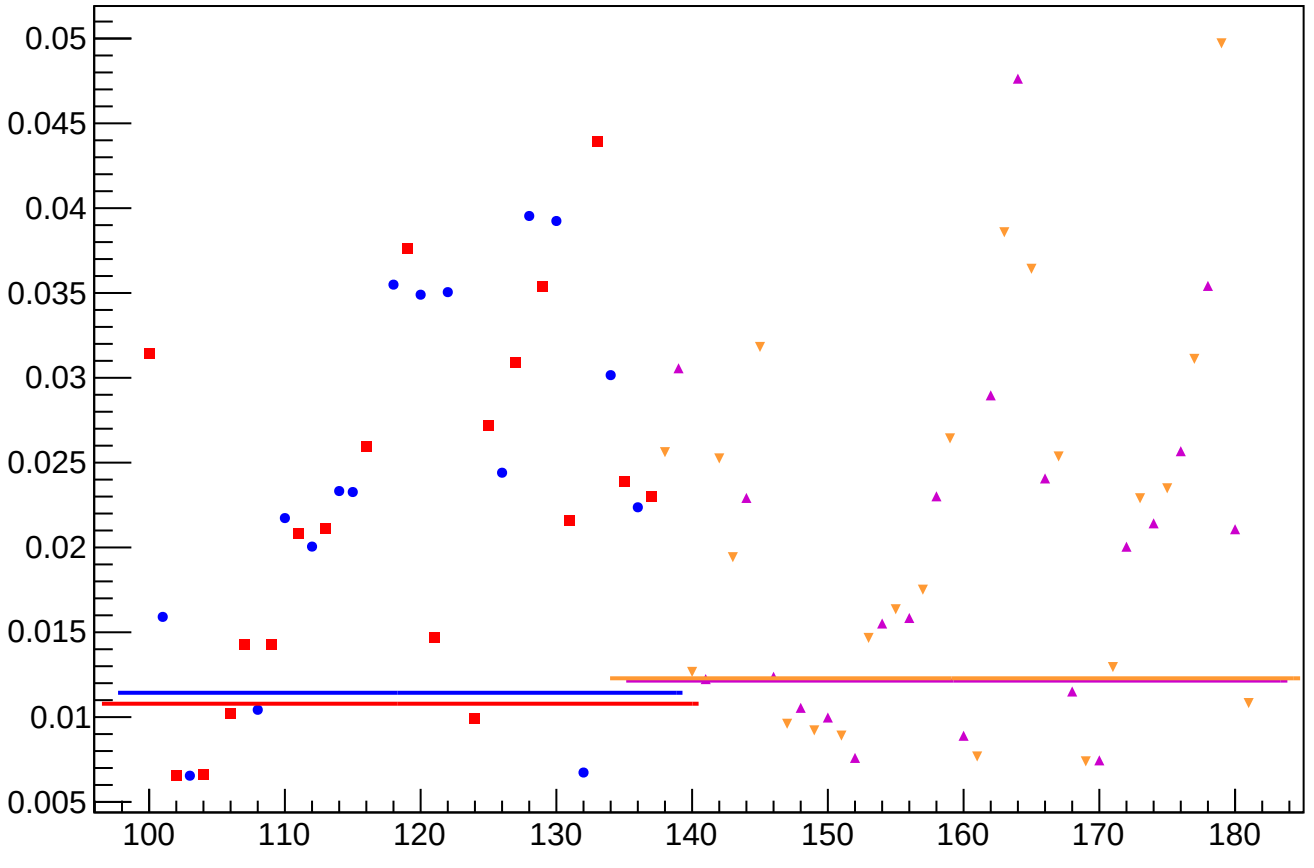
Left: -0.000+/-0.000 $\chi^2$/NDF: 70.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:41.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:58.8/41

All: -0.000+/-0.000 $\chi^2$/NDF: 101.2/78




Right In: 0.011+/-0.000 $\chi^2$/NDF: 4699938.2/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:7729059.3/22

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 4473688.9/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:6208168.9/20

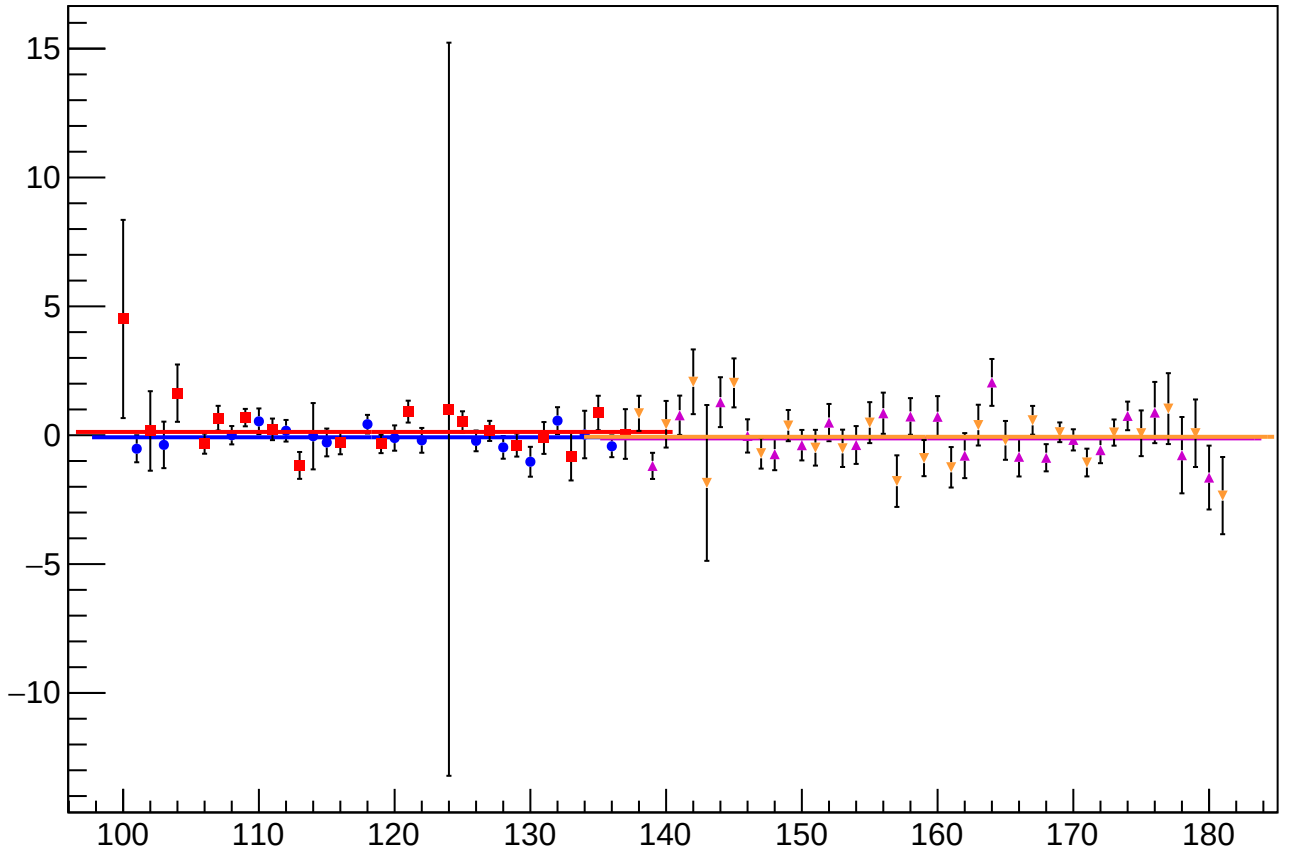
Left: 0.012+/-0.000 $\chi^2$/NDF: 13938842.6/43

Right: 0.011+/-0.000 $\chi^2$/NDF: 9189725.1/34

In: 0.012+/-0.000 $\chi^2$/NDF:10933717.1/36

Out: 0.012+/-0.000 $\chi^2$/NDF:12332587.3/41

All: 0.012+/-0.000 $\chi^2$/NDF: 23268606.8/78




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: -0.062+/-0.150 $\chi^2$/NDF:28.1/22

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.123+/-0.147 $\chi^2$/NDF:28.9/20

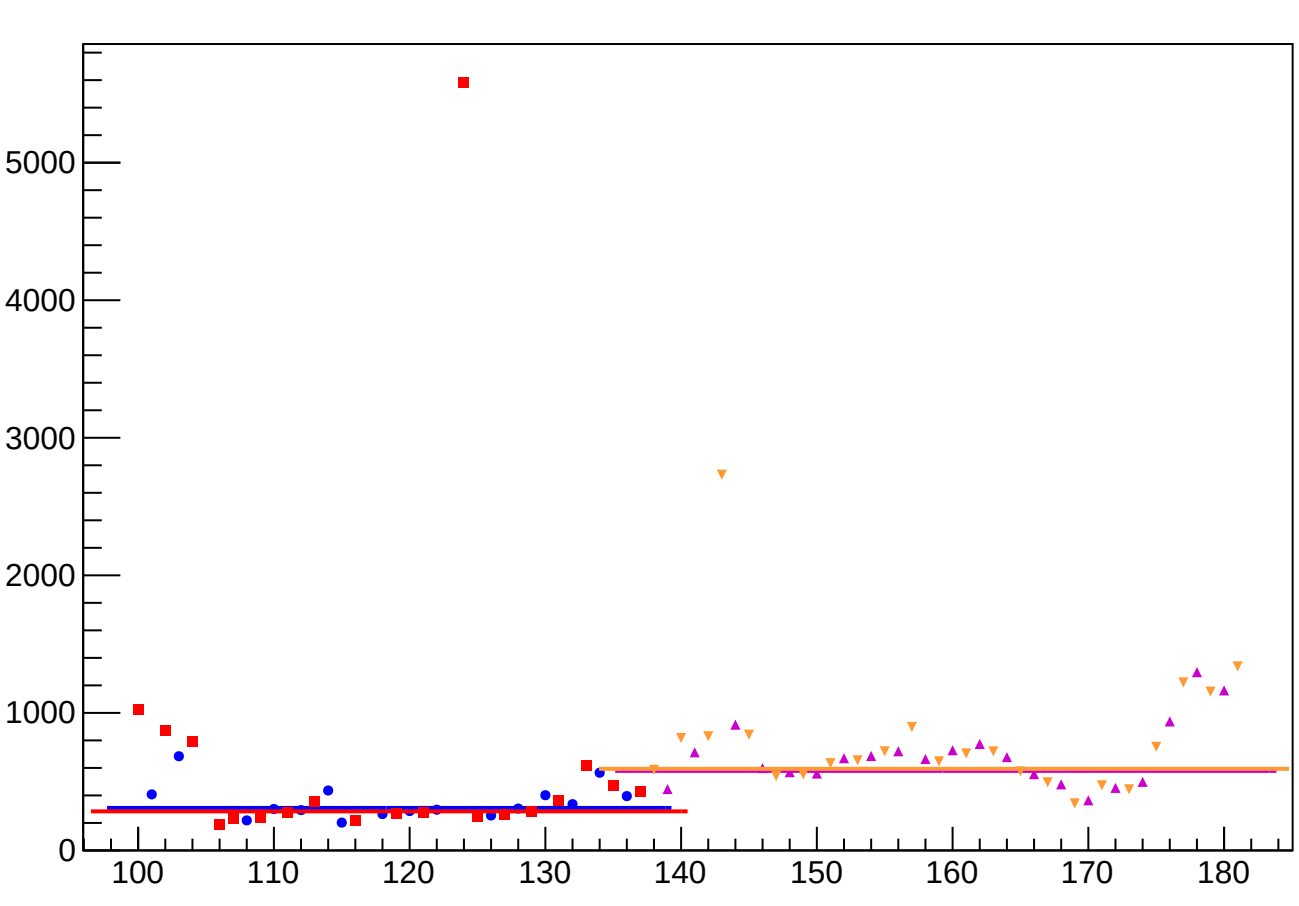
Left: -0.093+/-0.105 $\chi^2$/NDF: 57.0/43

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.097+/-0.094 $\chi^2$/NDF:39.7/36

Out: 0.056+/-0.092 $\chi^2$/NDF:54.3/41

All: -0.019+/-0.066 $\chi^2$/NDF: 95.4/78




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014573.4/15

Left Out: 593.397+/-0.106 $\chi^2$/NDF:4258835.6/22

Right Out: 284.188+/-0.083 $\chi^2$/NDF: 1856434.1/18

Left In: 578.388+/-0.104 $\chi^2$/NDF:2678845.4/20

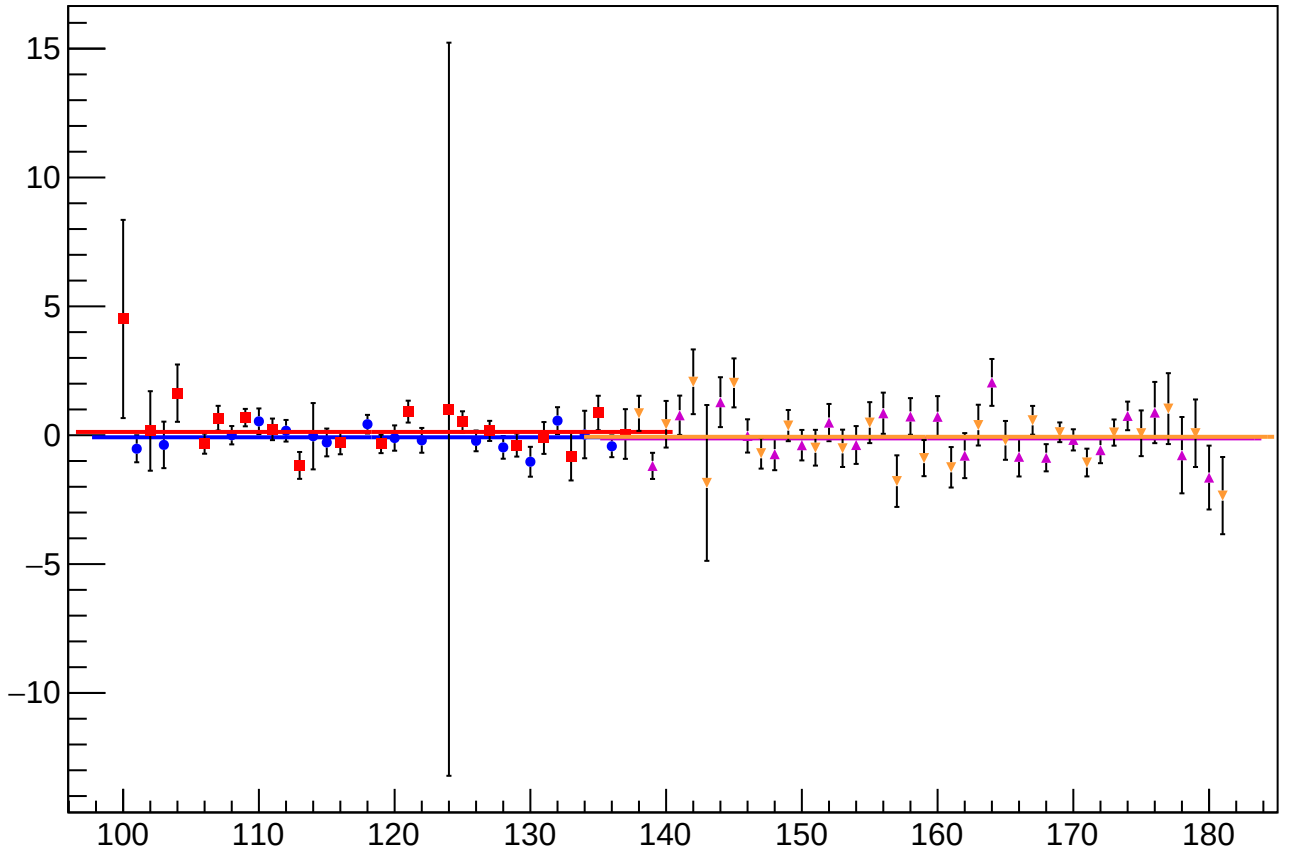
Left: 585.764+/-0.074 $\chi^2$/NDF: 6947887.4/43

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914502.7/34

In: 418.525+/-0.066 $\chi^2$/NDF:7662060.7/36

Out: 401.209+/-0.065 $\chi^2$/NDF:11409925.8/41

All: 409.706+/-0.047 $\chi^2$/NDF: 19106630.0/78




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: -0.062+/-0.150 $\chi^2$/NDF:28.1/22

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.123+/-0.147 $\chi^2$/NDF:28.9/20

Left: -0.093+/-0.105 $\chi^2$/NDF: 57.0/43

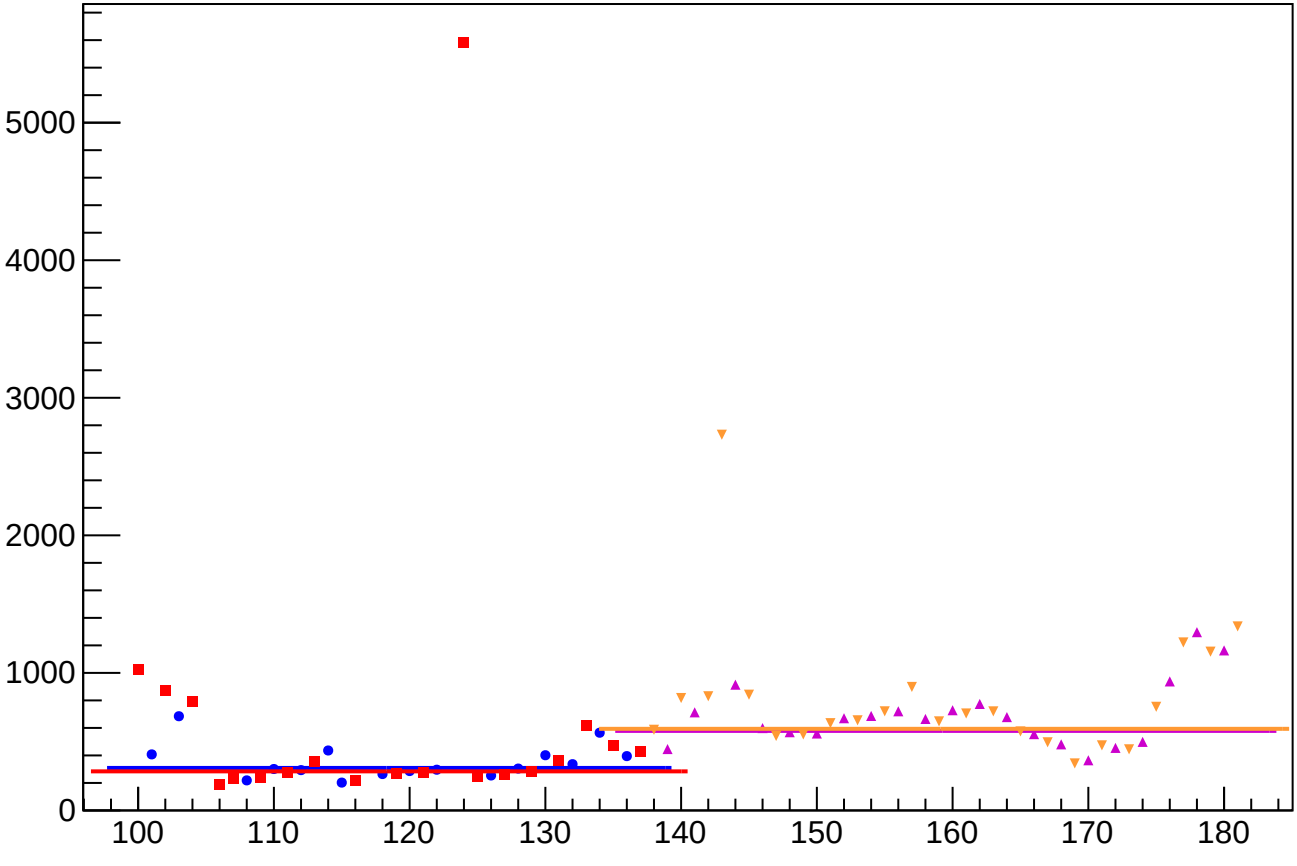
Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.097+/-0.094 $\chi^2$/NDF:39.7/36

Out: 0.056+/-0.092 $\chi^2$/NDF:54.3/41

All: -0.019+/-0.066 $\chi^2$/NDF: 95.4/78

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014573.4/15

Left Out: 593.397+/-0.106 $\chi^2$/NDF:4258835.6/22

Right Out: 284.188+/-0.083 $\chi^2$/NDF: 1856434.1/18

Left In: 578.388+/-0.104 $\chi^2$/NDF:2678845.4/20

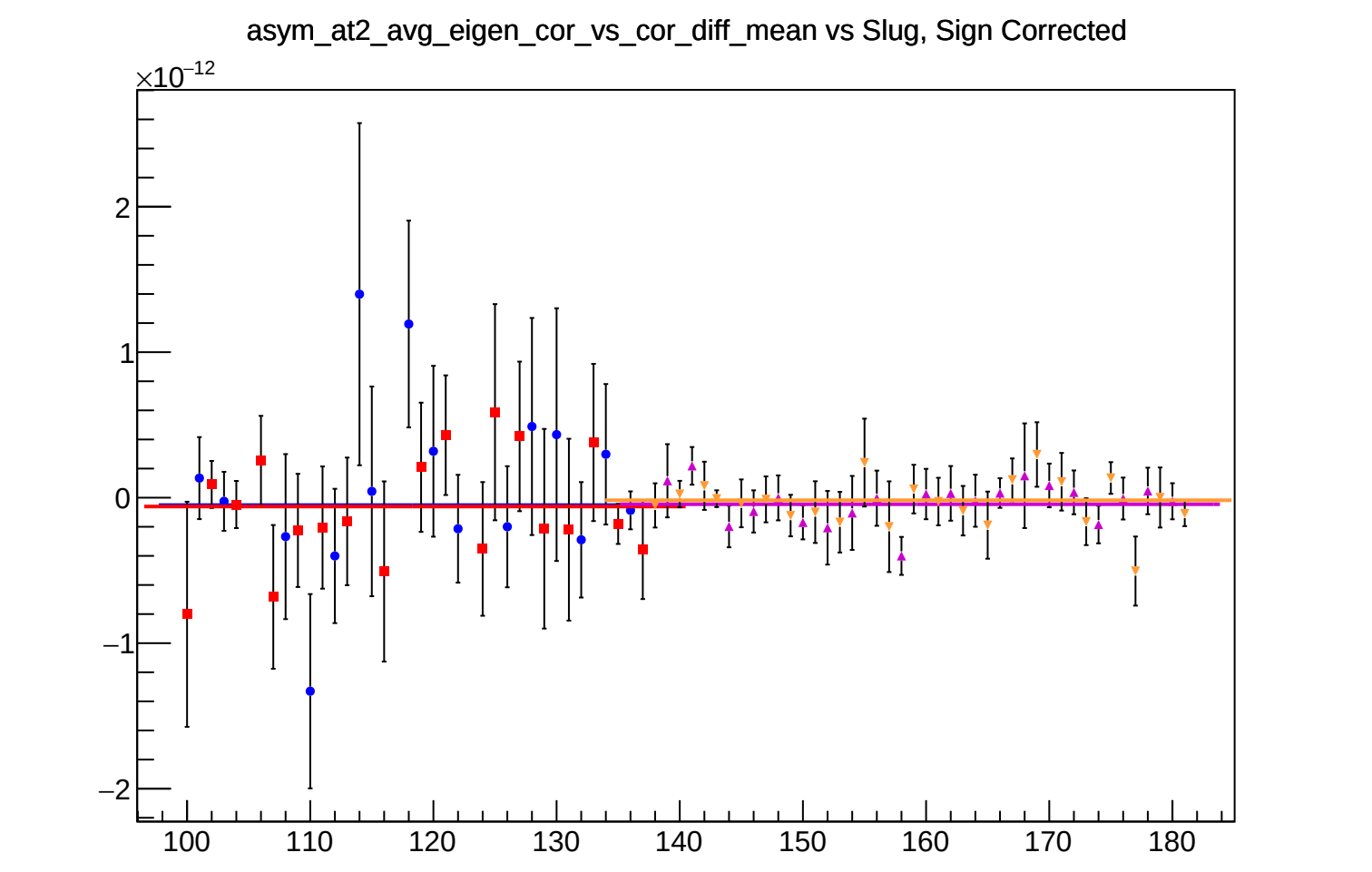
Left: 585.764+/-0.074 $\chi^2$/NDF: 6947887.4/43

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914502.7/34

In: 418.525+/-0.066 $\chi^2$/NDF:7662060.7/36

Out: 401.209+/-0.065 $\chi^2$/NDF:11409925.8/41

All: 409.706+/-0.047 $\chi^2$/NDF: 19106630.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.8/20

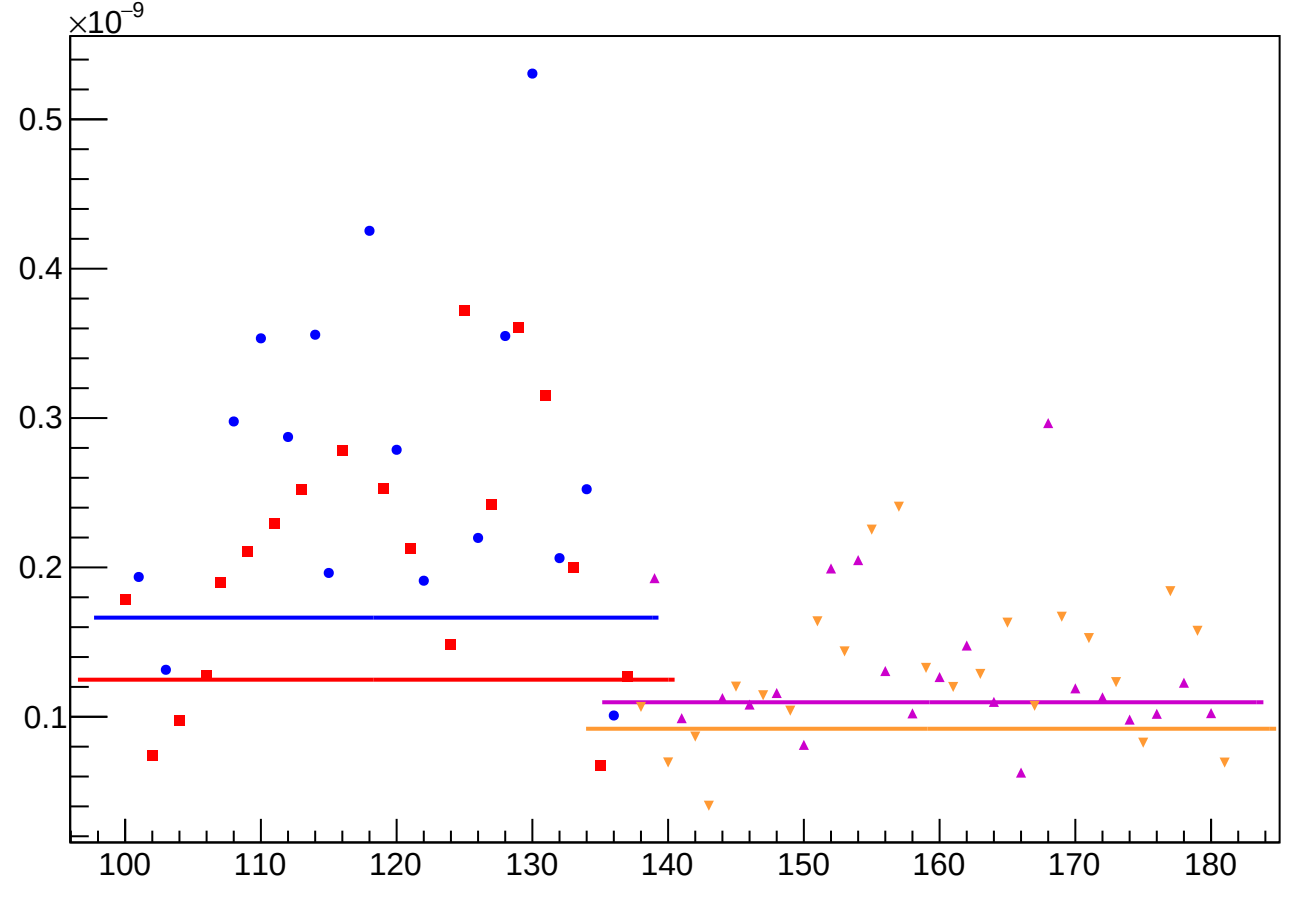
Left: -0.000+/-0.000 $\chi^2$/NDF: 34.6/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 23.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:30.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:27.2/41

All: -0.000+/-0.000 $\chi^2$/NDF: 58.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1984237.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4681563.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2209554.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2036827.4/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 7043709.1/43

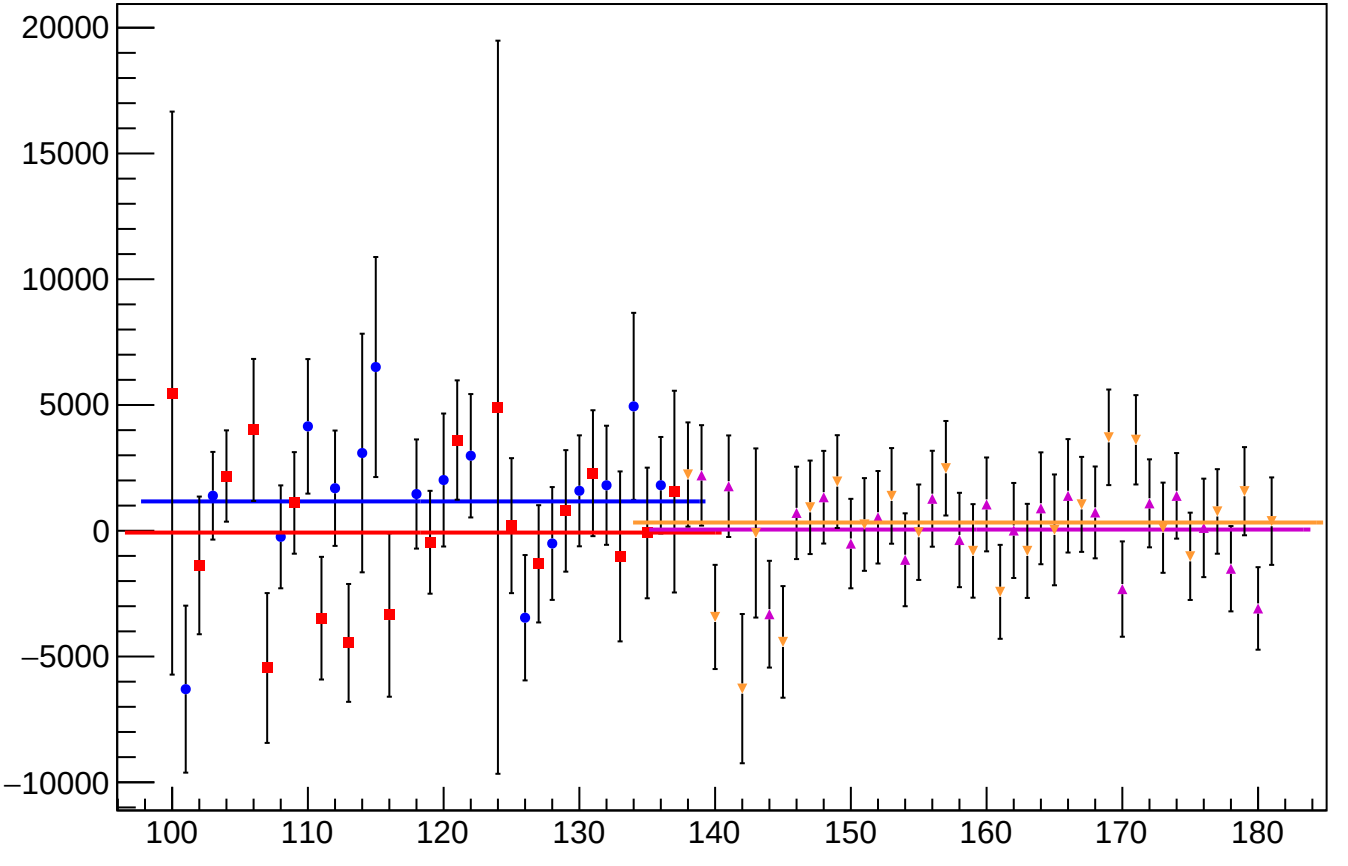
Right: 0.000+/-0.000 $\chi^2$/NDF: 4480530.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:4799930.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7267588.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 12577731.4/78

# reg_asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 1166.862+/-609.171 $\chi^2$/NDF: 14.4/15

Left Out: 327.515+/-402.193 $\chi^2$/NDF:27.1/22

Right Out: -72.181+/-603.362 $\chi^2$/NDF: 18.3/18

Left In: 47.599+/-409.255 $\chi^2$/NDF:14.0/20

Left: 189.993+/-286.857 $\chi^2$/NDF: 41.4/43

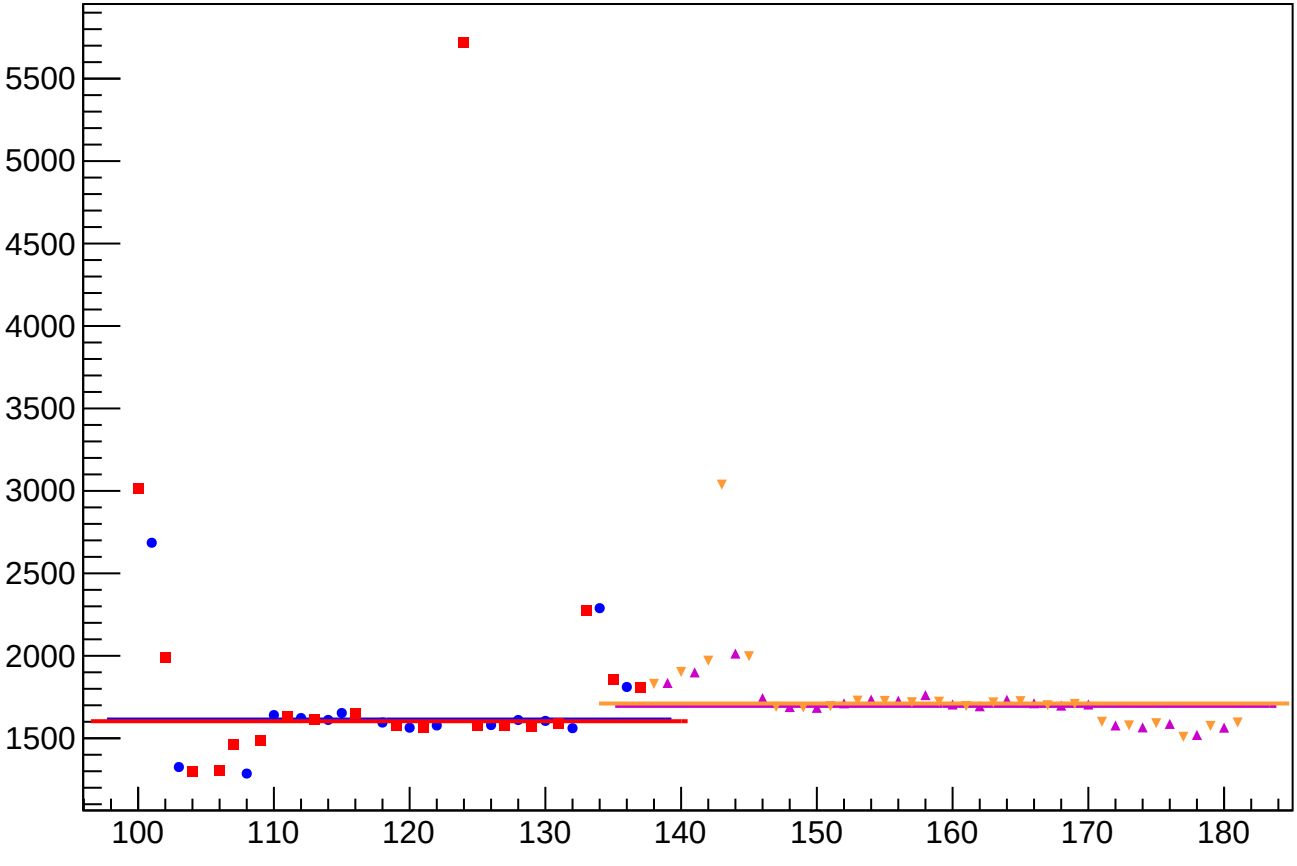
Right: 541.404+/-428.680 $\chi^2$/NDF: 34.8/34

In: 395.672+/-339.710 $\chi^2$/NDF:30.8/36

Out: 204.552+/-334.657 $\chi^2$/NDF:45.7/41

All: 298.680+/-238.405 $\chi^2$/NDF: 76.6/78

# reg_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.5/15

Left Out: 1710.856+/-0.284 $\chi^2$/NDF:463254.8/22

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.5/18

Left In: 1696.317+/-0.289 $\chi^2$/NDF:142480.5/20

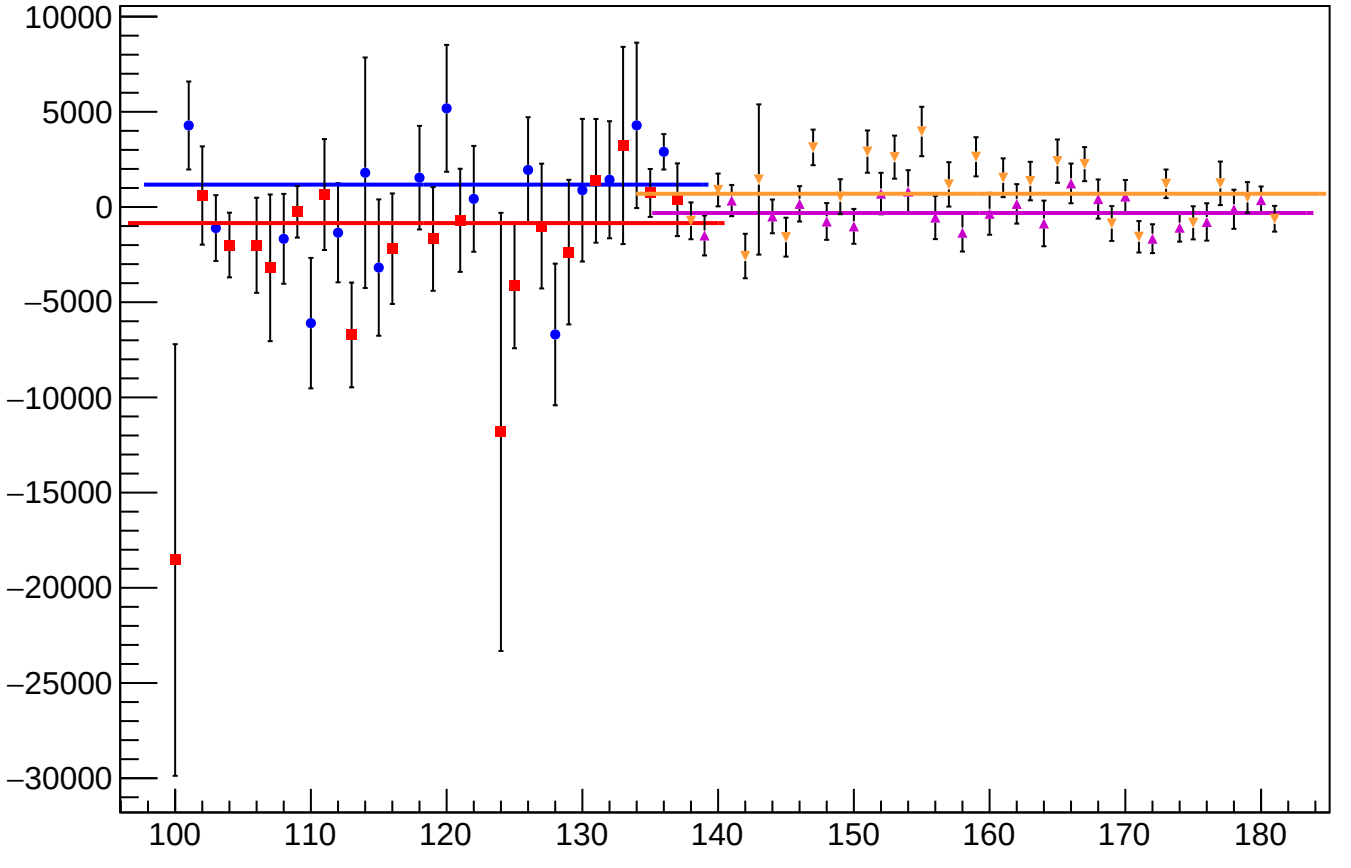
Left: 1703.713+/-0.203 $\chi^2$/NDF: 607019.4/43

Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.6/34

In: 1670.616+/-0.240 $\chi^2$/NDF:572531.7/36

Out: 1677.818+/-0.237 $\chi^2$/NDF:932916.4/41

All: 1674.271+/-0.169 $\chi^2$/NDF: 1505904.2/78




Right In: 1175.479+/-579.062 $\chi^2$/NDF: 22.0/15

Left Out: 695.231+/-201.628 $\chi^2$/NDF:63.3/22

Right Out: -843.857+/-557.438 $\chi^2$/NDF: 14.3/18

Left In: -315.101+/-205.387 $\chi^2$/NDF:15.6/20

Left: 199.396+/-143.883 $\chi^2$/NDF: 91.2/43

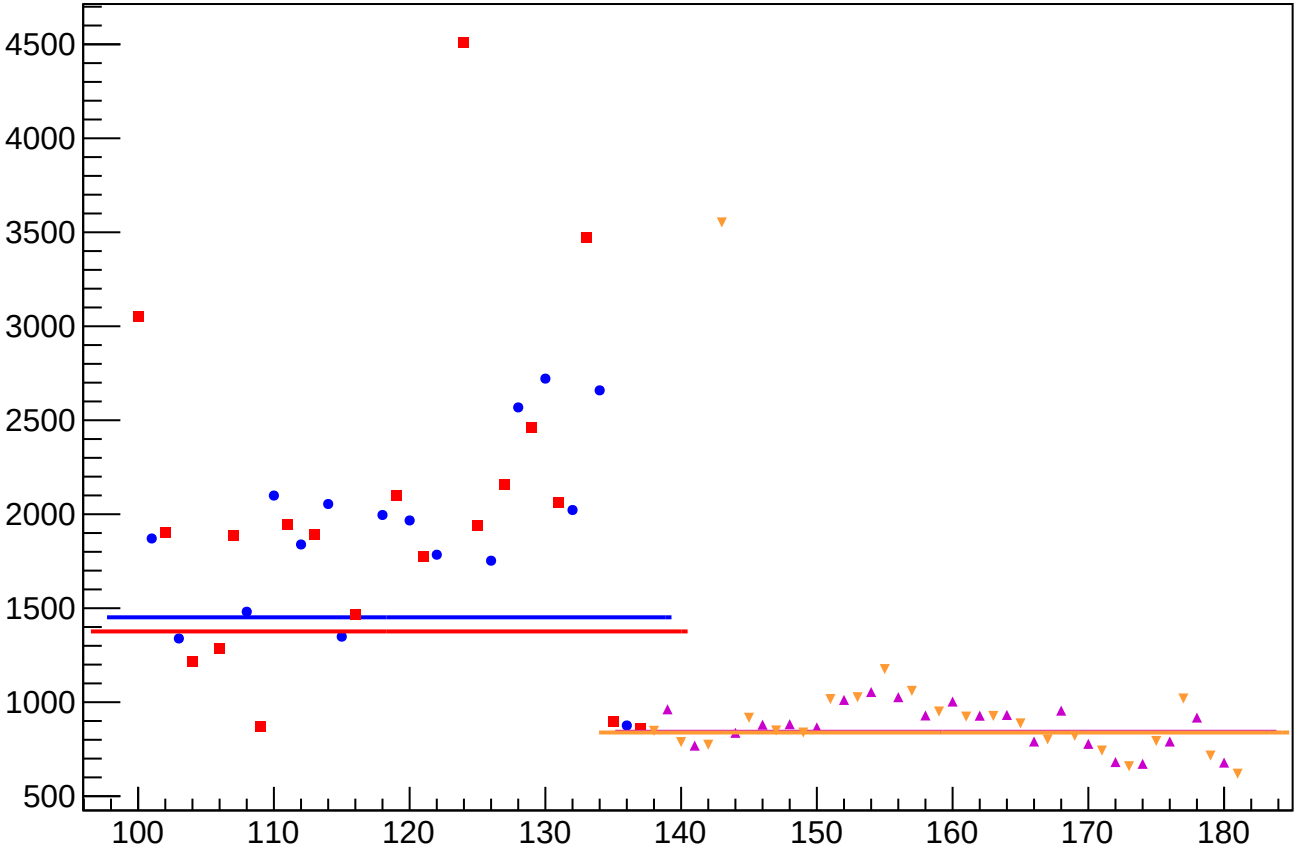
Right: 127.404+/-401.596 $\chi^2$/NDF: 42.6/34

In: -148.535+/-193.572 $\chi^2$/NDF:43.5/36

Out: 517.168+/-189.606 $\chi^2$/NDF:84.3/41

All: 191.206+/-135.452 $\chi^2$/NDF: 133.8/78

# asym_at2_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 1451.631+/-0.409 $\chi^2$/NDF: 1790839.5/15

Left Out: 838.805+/-0.143 $\chi^2$/NDF:1799433.8/22

Right Out: 1376.470+/-0.394 $\chi^2$/NDF: 2132051.1/18

Left In: 842.611+/-0.145 $\chi^2$/NDF:664334.4/20

Left: 840.673+/-0.102 $\chi^2$/NDF: 2464118.0/43

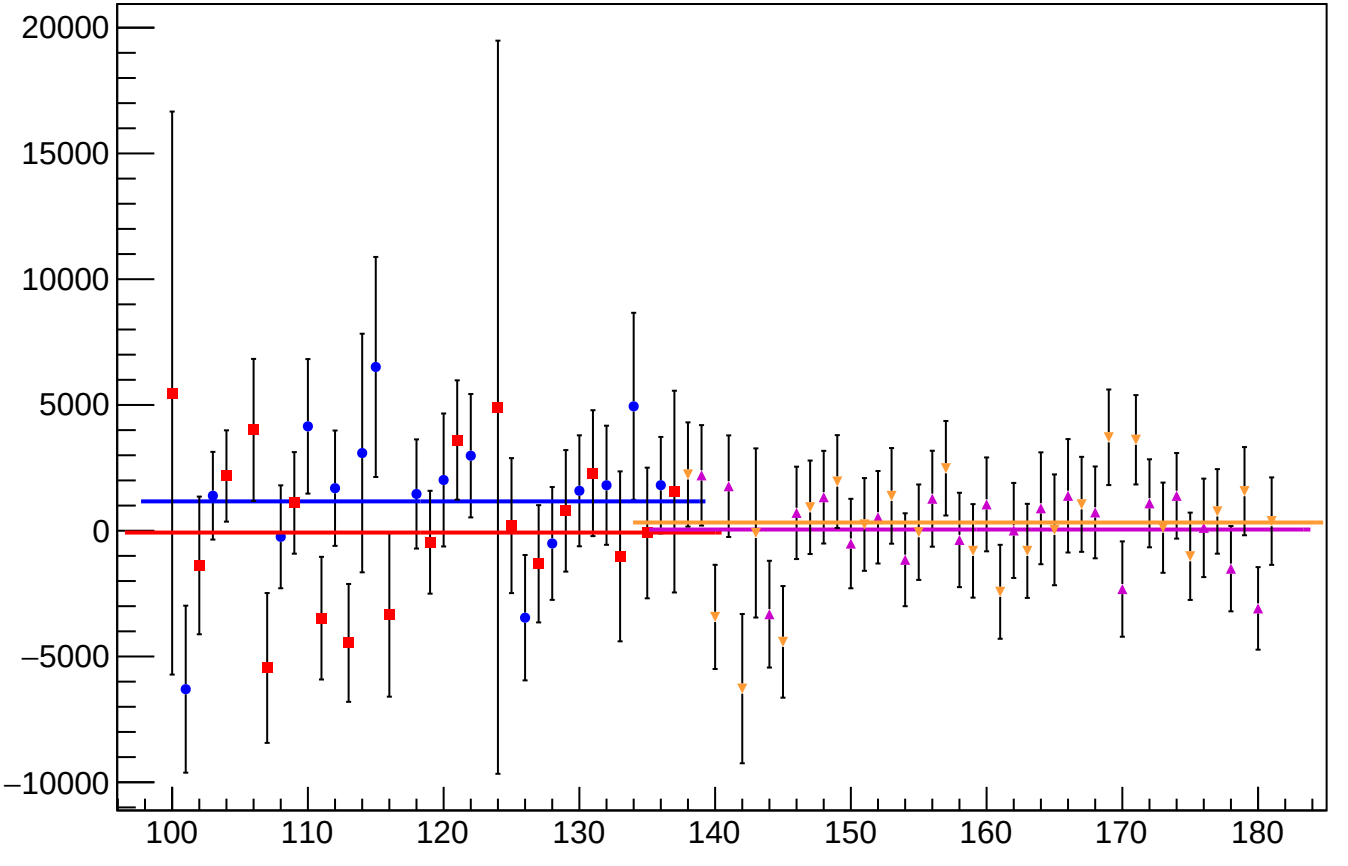
Right: 1412.621+/-0.284 $\chi^2$/NDF: 3940379.2/34

In: 910.667+/-0.137 $\chi^2$/NDF:4420250.1/36

Out: 901.009+/-0.134 $\chi^2$/NDF:5576850.6/41

All: 905.738+/-0.096 $\chi^2$/NDF: 9999641.4/78

# cor_asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 1166.769+/-609.171 $\chi^2$/NDF: 14.4/15

Left Out: 327.422+/-402.193 $\chi^2$/NDF:27.1/22

Right Out: -72.499+/-603.362 $\chi^2$/NDF: 18.3/18

Left In: 47.542+/-409.255 $\chi^2$/NDF:14.0/20

Left: 189.917+/-286.857 $\chi^2$/NDF: 41.4/43

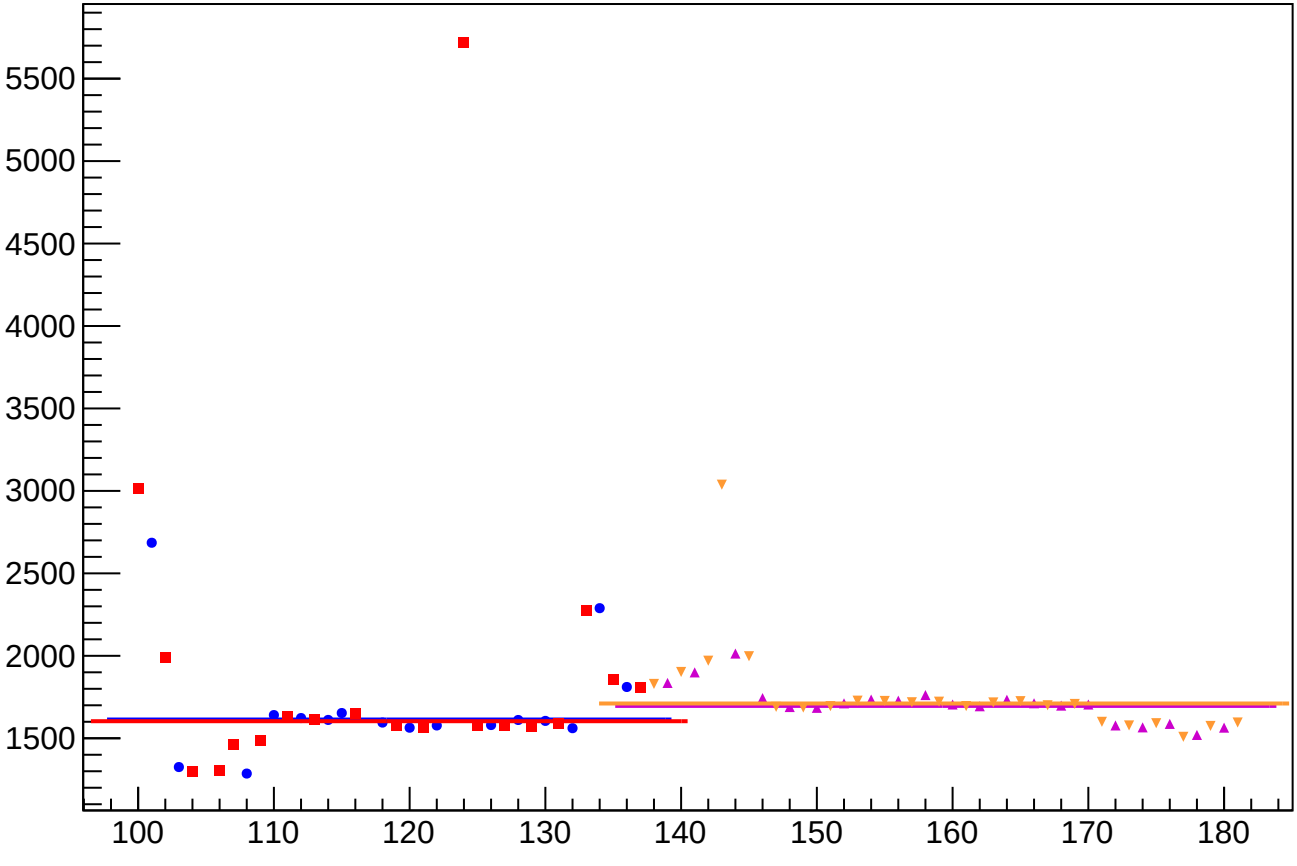
Right: 541.197+/-428.680 $\chi^2$/NDF: 34.8/34

In: 395.604+/-339.710 $\chi^2$/NDF:30.8/36

Out: 204.389+/-334.657 $\chi^2$/NDF:45.7/41

All: 298.564+/-238.405 $\chi^2$/NDF: 76.7/78

# cor_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.8/15

Left Out: 1710.856+/-0.284 $\chi^2$/NDF:463254.8/22

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.4/18

Left In: 1696.317+/-0.289 $\chi^2$/NDF:142480.5/20

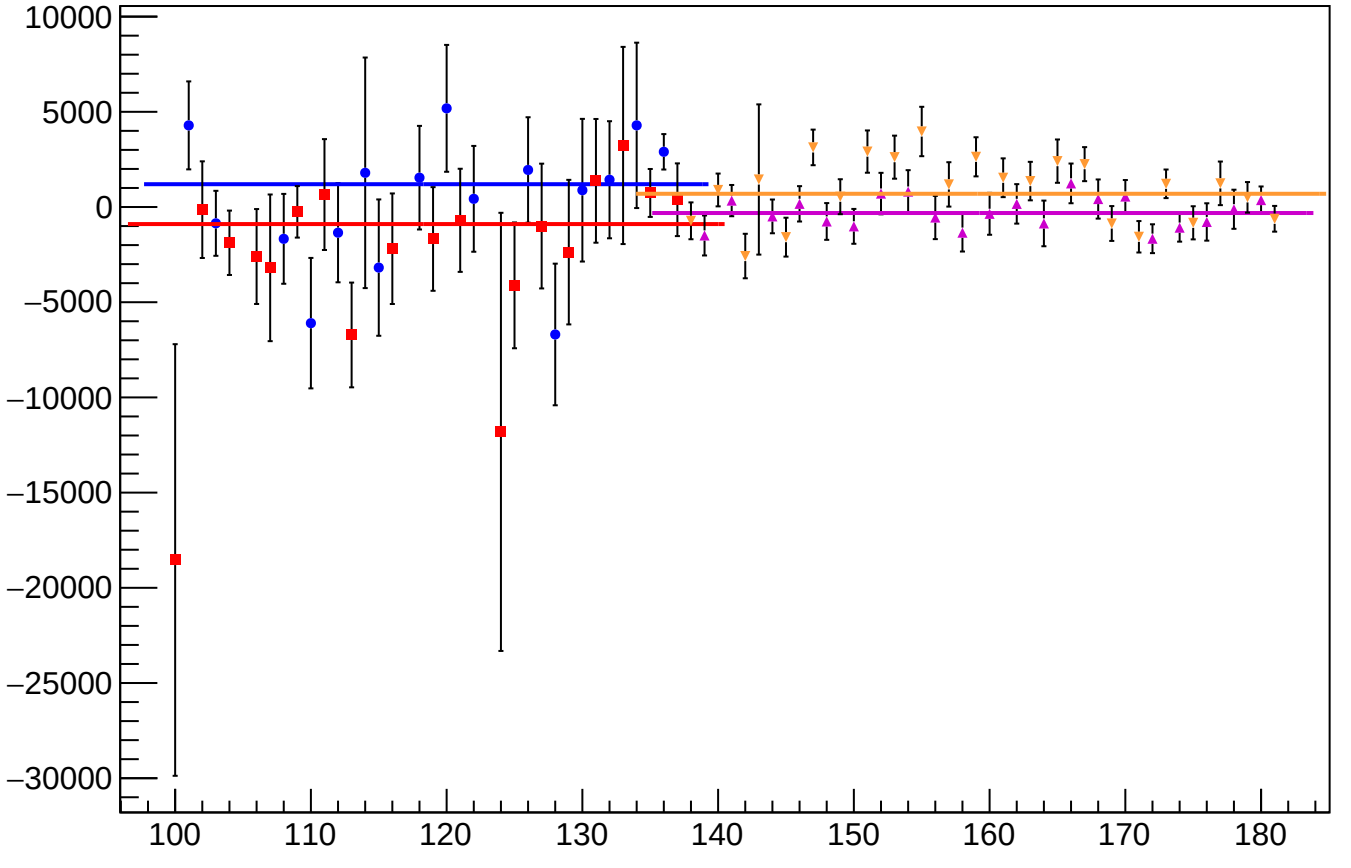
Left: 1703.713+/-0.203 $\chi^2$/NDF: 607019.3/43

Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.8/34

In: 1670.616+/-0.240 $\chi^2$/NDF:572532.0/36

Out: 1677.818+/-0.237 $\chi^2$/NDF:932916.5/41

All: 1674.271+/-0.169 $\chi^2$/NDF: 1505904.7/78




Right In: 1198.338+/-578.240 $\chi^2$/NDF: 21.7/15

Left Out: 695.229+/-201.630 $\chi^2$/NDF:63.3/22

Right Out: -895.463+/-556.666 $\chi^2$/NDF: 14.2/18

Left In: -315.080+/-205.387 $\chi^2$/NDF:15.6/20

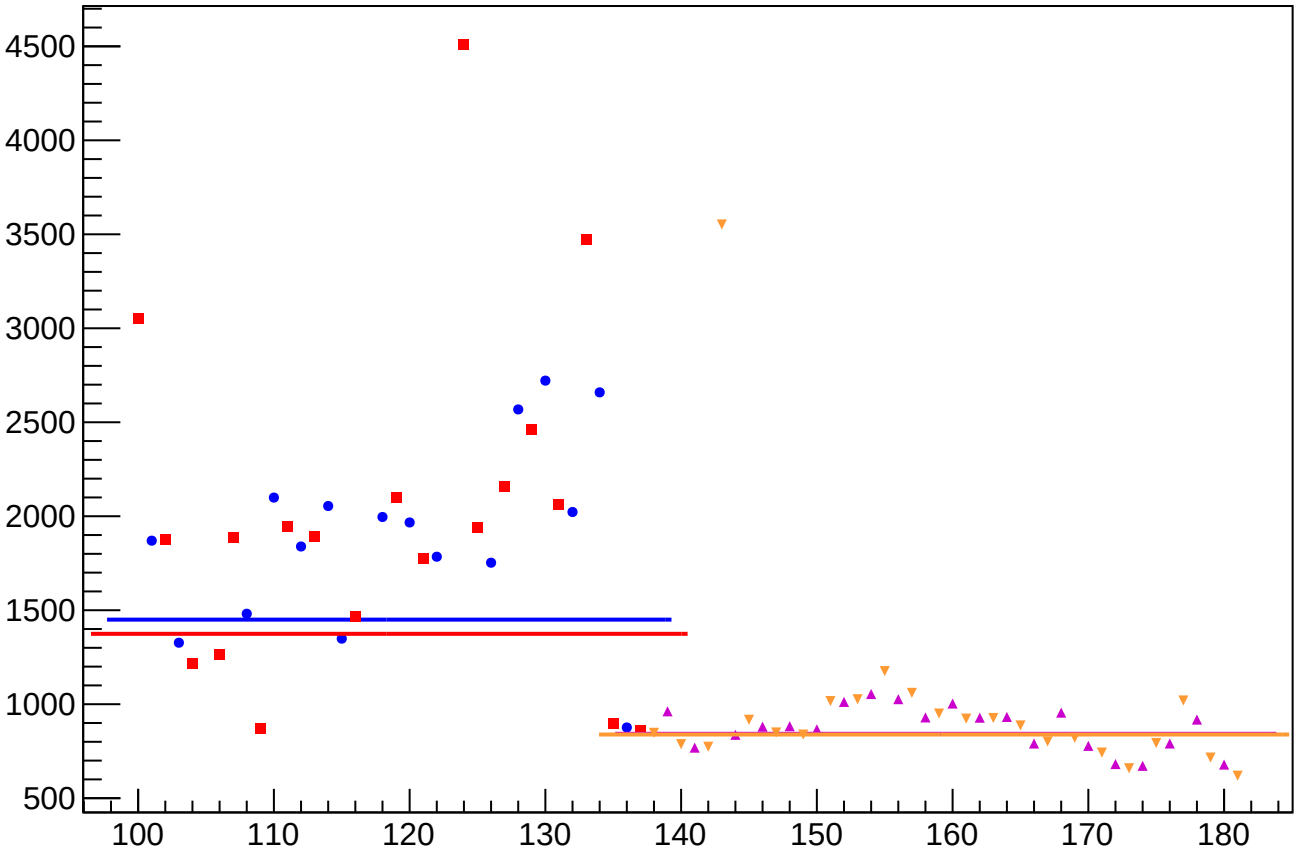
Left: 199.401+/-143.884 $\chi^2$/NDF: 91.2/43

Right: 111.650+/-401.033 $\chi^2$/NDF: 42.7/34

In: -145.534+/-193.541 $\chi^2$/NDF:43.4/36

Out: 510.741+/-189.577 $\chi^2$/NDF:84.7/41

All: 189.393+/-135.431 $\chi^2$/NDF: 133.9/78




Right In: 1449.939+/-0.409 $\chi^2$/NDF: 1792673.2/15

Left Out: 838.816+/-0.143 $\chi^2$/NDF:1799326.3/22

Right Out: 1374.438+/-0.394 $\chi^2$/NDF: 2127695.6/18

Left In: 842.614+/-0.145 $\chi^2$/NDF:664331.6/20

Left: 840.679+/-0.102 $\chi^2$/NDF: 2464006.2/43

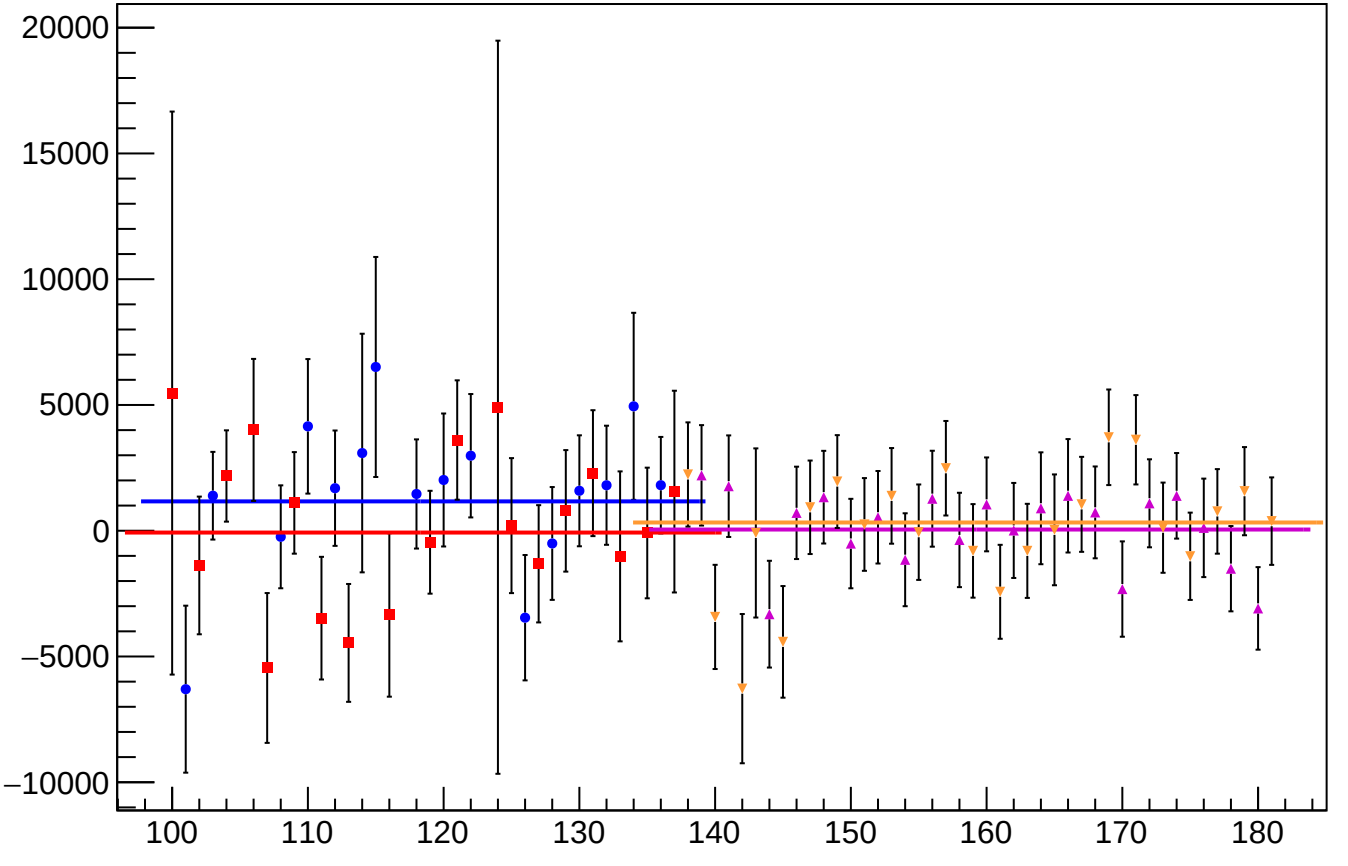
Right: 1410.753+/-0.284 $\chi^2$/NDF: 3938065.4/34

In: 910.651+/-0.137 $\chi^2$/NDF:4416094.4/36

Out: 900.937+/-0.134 $\chi^2$/NDF:5563911.1/41

All: 905.694+/-0.096 $\chi^2$/NDF: 9982577.1/78

# eigen_cor_asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 1166.769+/-609.171 $\chi^2$/NDF: 14.4/15

Left Out: 327.422+/-402.193 $\chi^2$/NDF:27.1/22

Right Out: -72.499+/-603.362 $\chi^2$/NDF: 18.3/18

Left In: 47.542+/-409.255 $\chi^2$/NDF:14.0/20

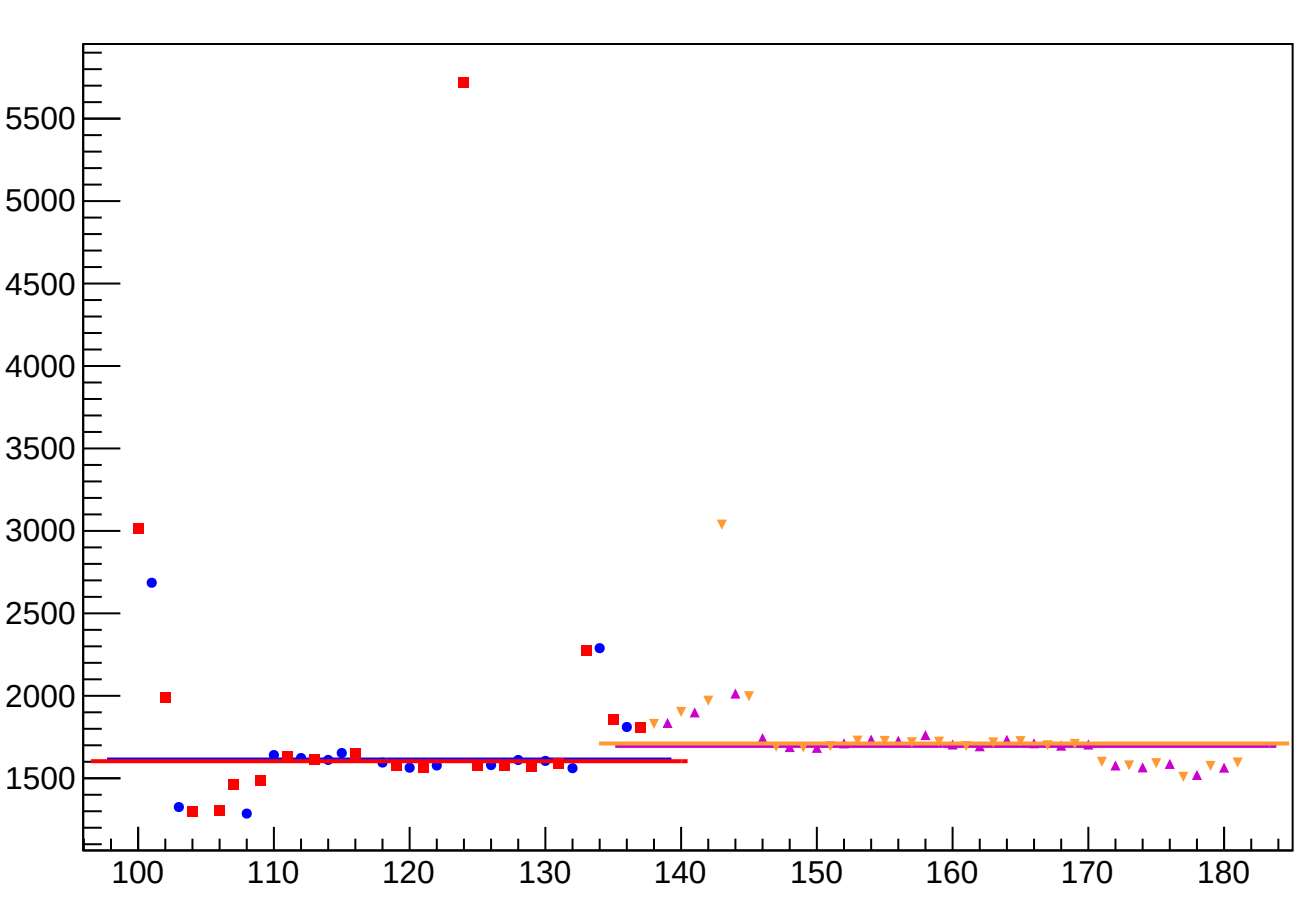
Left: 189.917+/-286.857 $\chi^2$/NDF: 41.4/43

Right: 541.197+/-428.680 $\chi^2$/NDF: 34.8/34

In: 395.604+/-339.710 $\chi^2$/NDF:30.8/36

Out: 204.389+/-334.657 $\chi^2$/NDF:45.7/41

All: 298.564+/-238.405 $\chi^2$/NDF: 76.7/78




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.8/15

Left Out: 1710.856+/-0.284 $\chi^2$/NDF:463254.8/22

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.4/18

Left In: 1696.317+/-0.289 $\chi^2$/NDF:142480.5/20

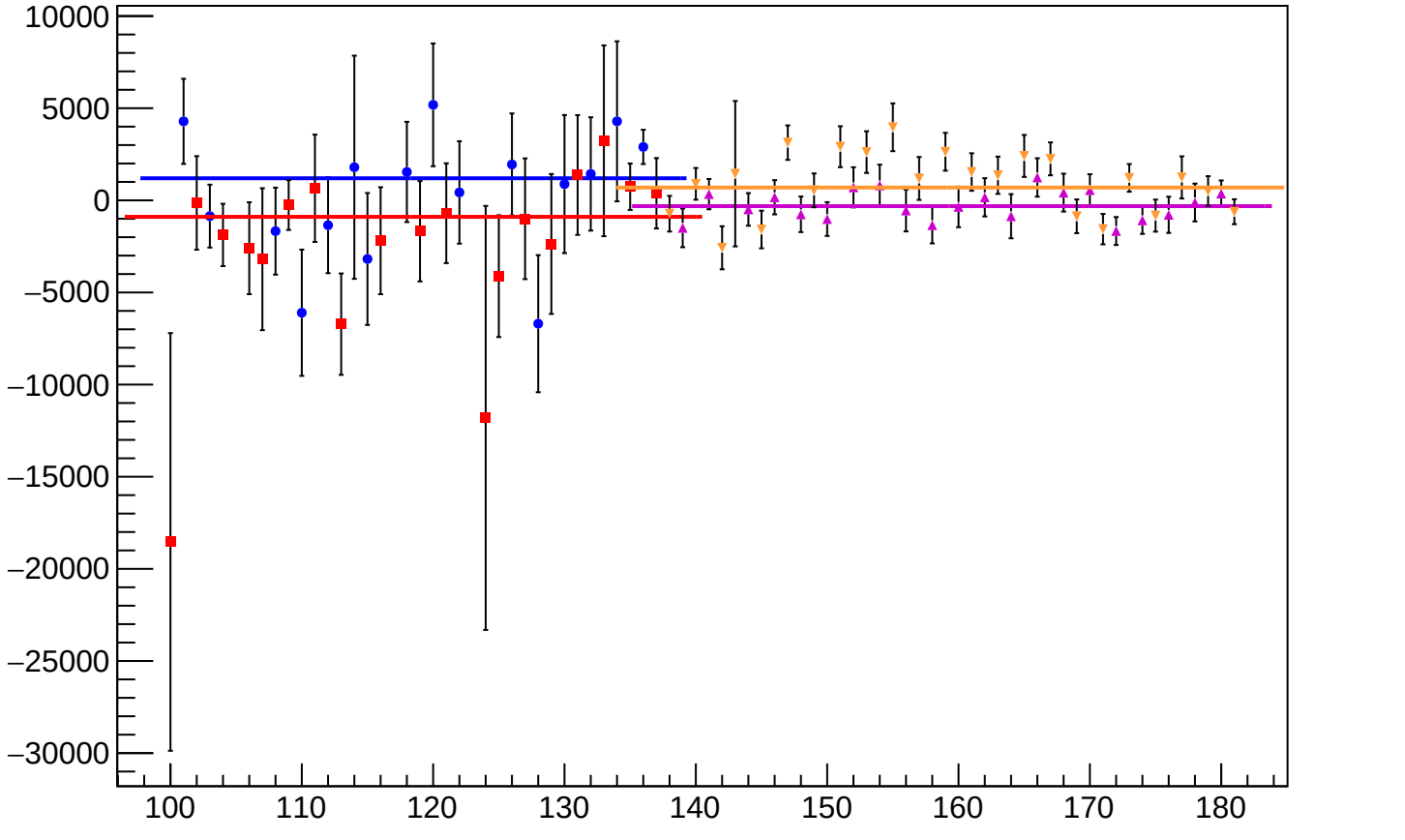
Left: 1703.713+/-0.203 $\chi^2$/NDF: 607019.3/43

Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.8/34

In: 1670.616+/-0.240 $\chi^2$/NDF:572532.0/36

Out: 1677.818+/-0.237 $\chi^2$/NDF:932916.5/41

All: 1674.271+/-0.169 $\chi^2$/NDF: 1505904.7/78




Right In: 1198.338+/-578.240 $\chi^2$/NDF: 21.7/15

Left Out: 695.229+/-201.630 $\chi^2$/NDF:63.3/22

Right Out: -895.463+/-556.666 $\chi^2$/NDF: 14.2/18

Left In: -315.080+/-205.387 $\chi^2$/NDF:15.6/20

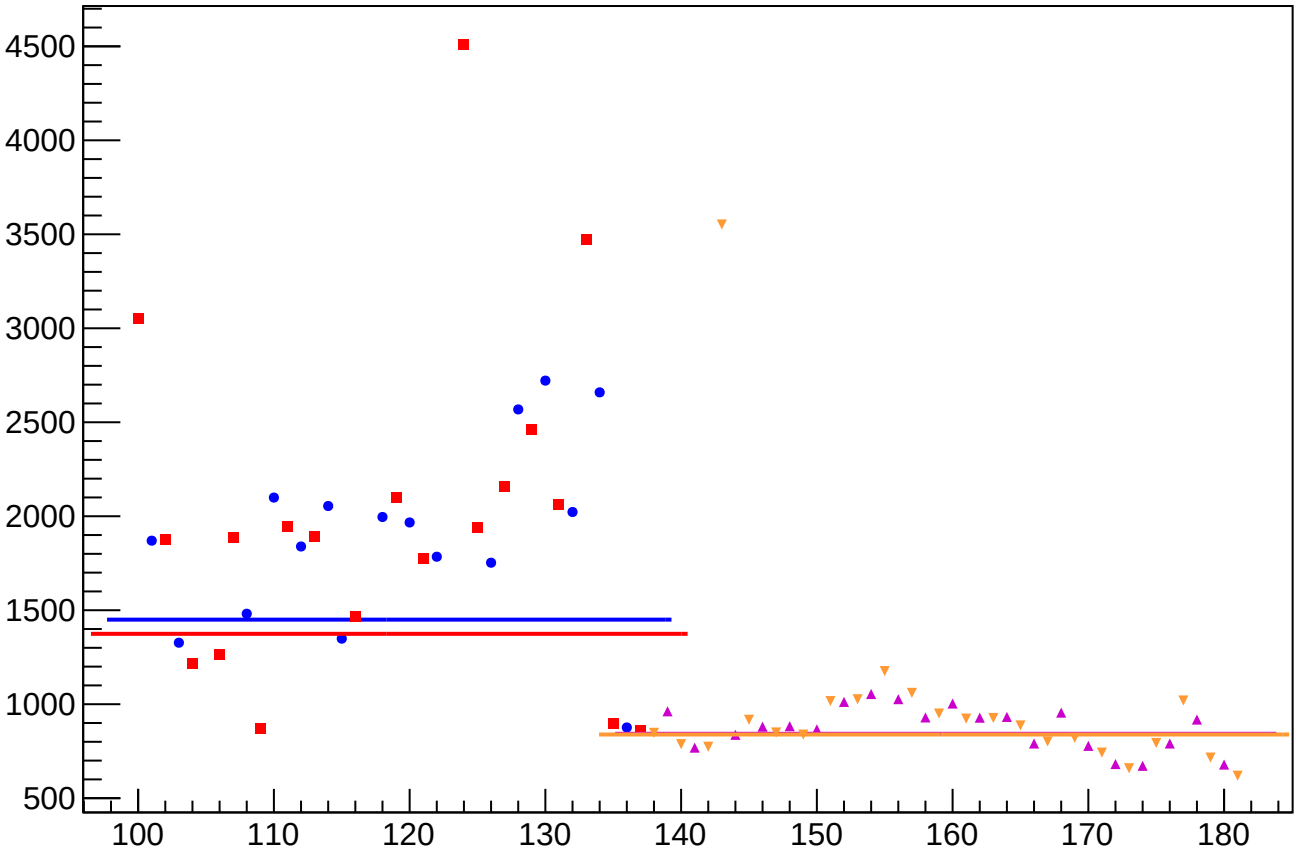
Left: 199.401+/-143.884 $\chi^2$/NDF: 91.2/43

Right: 111.650+/-401.033 $\chi^2$/NDF: 42.7/34

In: -145.534+/-193.541 $\chi^2$/NDF:43.4/36

Out: 510.741+/-189.577 $\chi^2$/NDF:84.7/41

All: 189.393+/-135.431 $\chi^2$/NDF: 133.9/78




Right In: 1449.939+/-0.409 $\chi^2$/NDF: 1792673.2/15

Left Out: 838.816+/-0.143 $\chi^2$/NDF:1799326.3/22

Right Out: 1374.438+/-0.394 $\chi^2$/NDF: 2127695.6/18

Left In: 842.614+/-0.145 $\chi^2$/NDF:664331.6/20

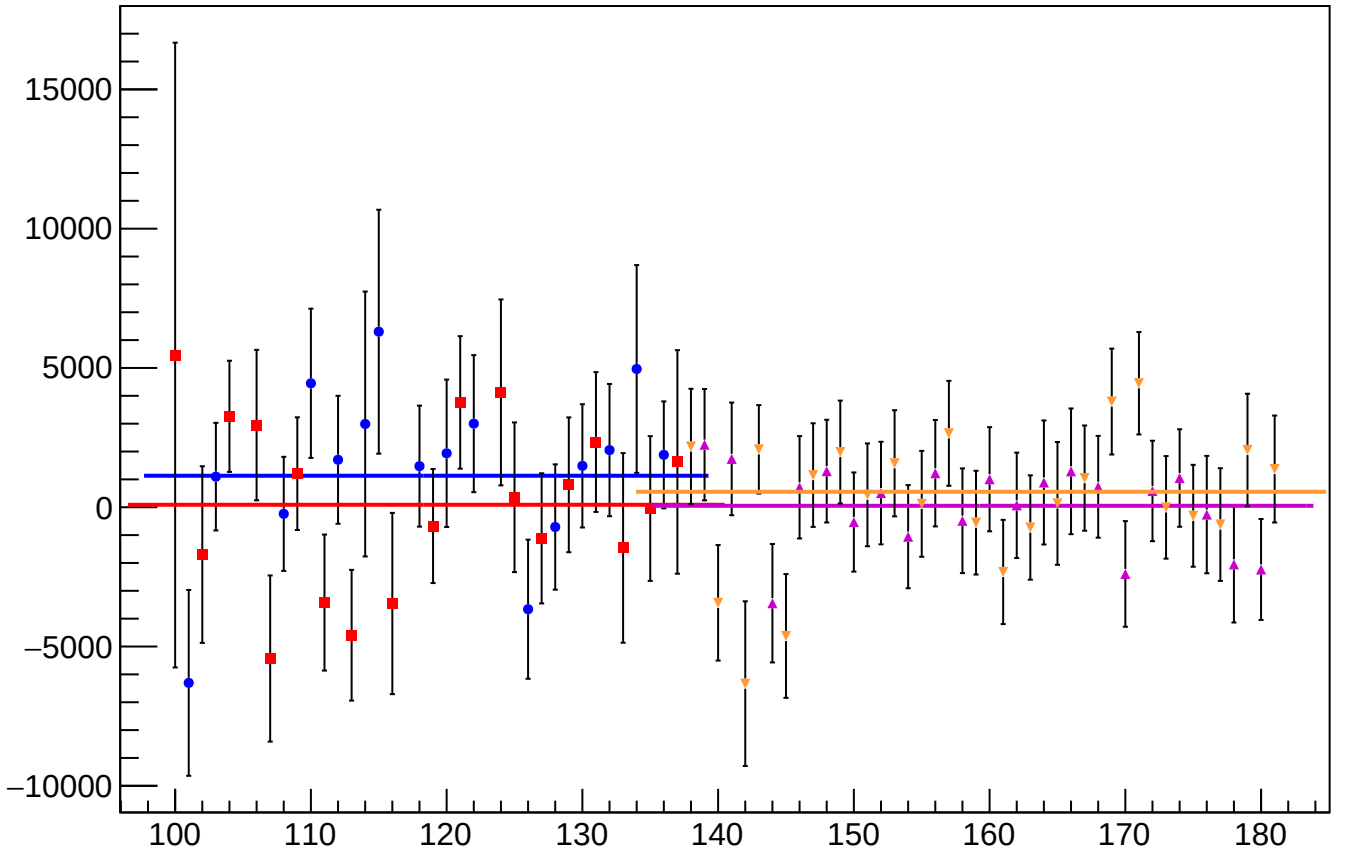
Left: 840.679+/-0.102 $\chi^2$/NDF: 2464006.2/43

Right: 1410.753+/-0.284 $\chi^2$/NDF: 3938065.4/34

In: 910.651+/-0.137 $\chi^2$/NDF:4416094.4/36

Out: 900.937+/-0.134 $\chi^2$/NDF:5563911.1/41

All: 905.694+/-0.096 $\chi^2$/NDF: 9982577.1/78




Right In: 1130.726+/-617.236 $\chi^2$/NDF: 15.0/15

Left Out: 555.946+/-402.843 $\chi^2$/NDF:30.4/22

Right Out: 89.220+/-603.072 $\chi^2$/NDF: 20.7/18

Left In: 52.030+/-418.826 $\chi^2$/NDF:11.7/20

Left: 313.786+/-290.339 $\chi^2$/NDF: 42.9/43

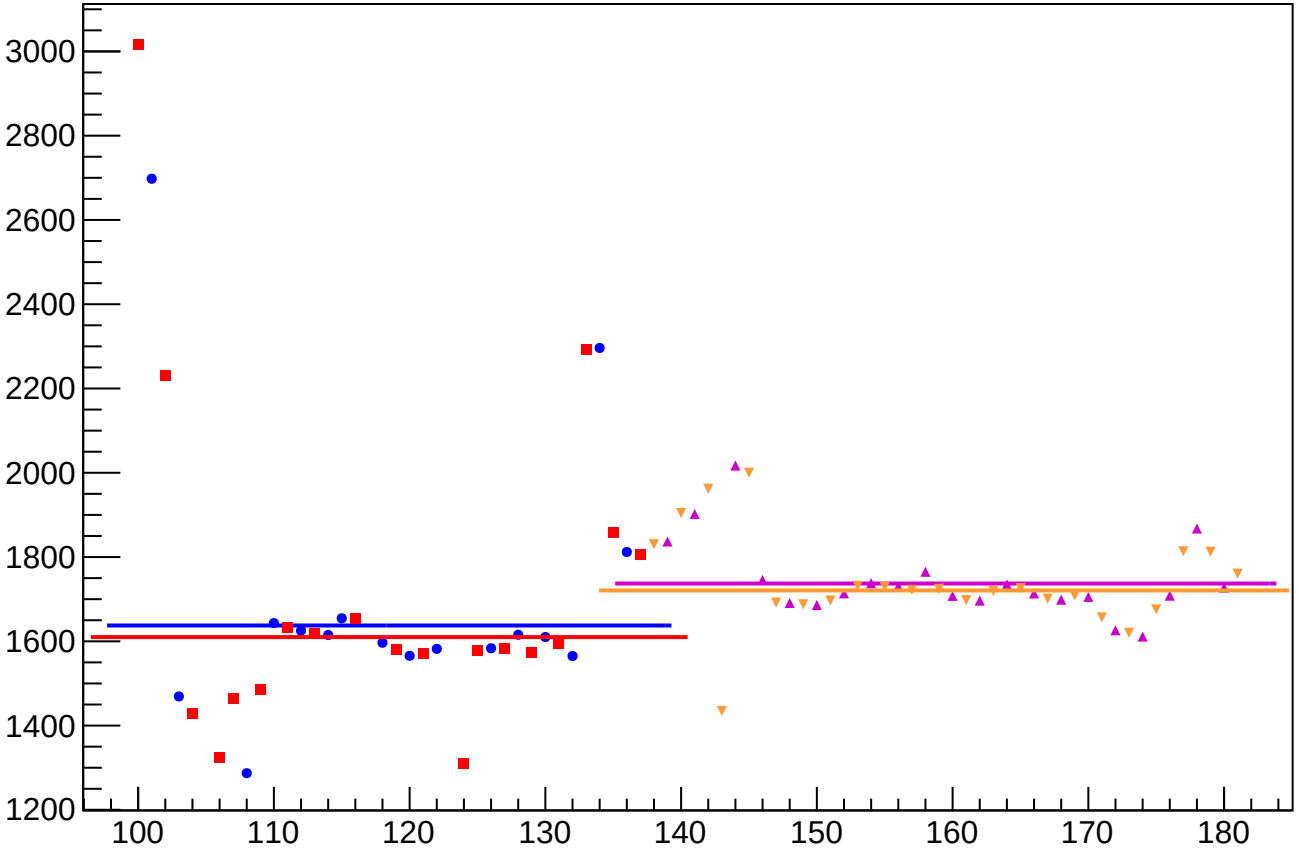
Right: 597.886+/-431.357 $\chi^2$/NDF: 37.1/34

In: 392.111+/-346.572 $\chi^2$/NDF:28.8/36

Out: 411.945+/-334.982 $\chi^2$/NDF:51.5/41

All: 402.365+/-240.861 $\chi^2$/NDF: 80.3/78

# dit_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1637.574+/-0.436 $\chi^2$/NDF: 361417.0/15

Left Out: 1720.733+/-0.285 $\chi^2$/NDF:152180.3/22

Right Out: 1610.043+/-0.426 $\chi^2$/NDF: 280812.5/18

Left In: 1737.178+/-0.296 $\chi^2$/NDF:85985.3/20

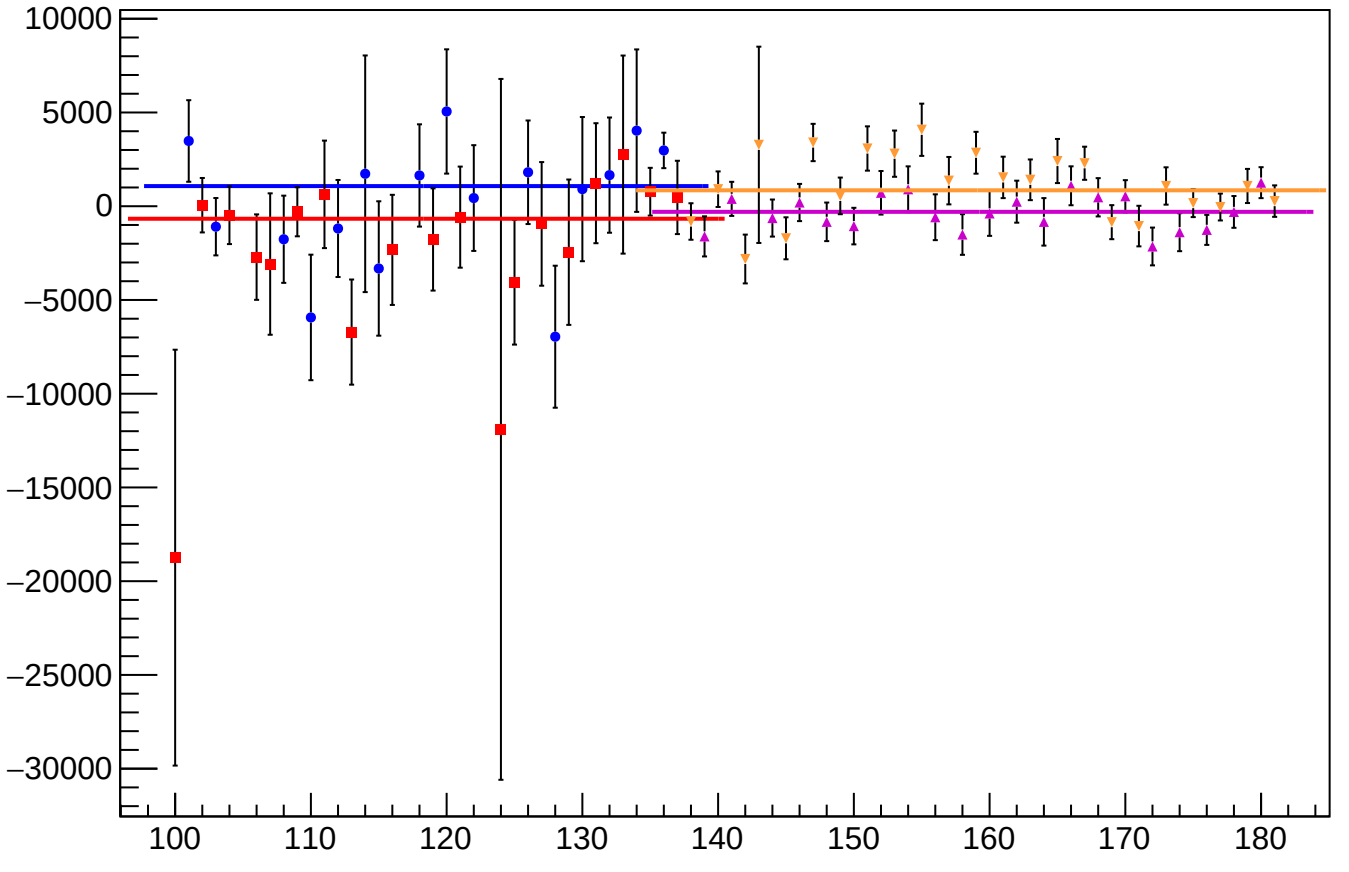
Left: 1728.636+/-0.205 $\chi^2$/NDF: 239767.3/43

Right: 1623.489+/-0.305 $\chi^2$/NDF: 644265.1/34

In: 1705.776+/-0.245 $\chi^2$/NDF:483064.1/36

Out: 1686.581+/-0.237 $\chi^2$/NDF:479581.6/41

All: 1695.852+/-0.170 $\chi^2$/NDF: 965817.3/78




Right In: 1073.600+/-571.609 $\chi^2$/NDF: 22.0/15

Left Out: 848.822+/-212.832 $\chi^2$/NDF:52.5/22

Right Out: -667.777+/-523.477 $\chi^2$/NDF: 13.6/18

Left In: -299.611+/-219.319 $\chi^2$/NDF:19.6/20

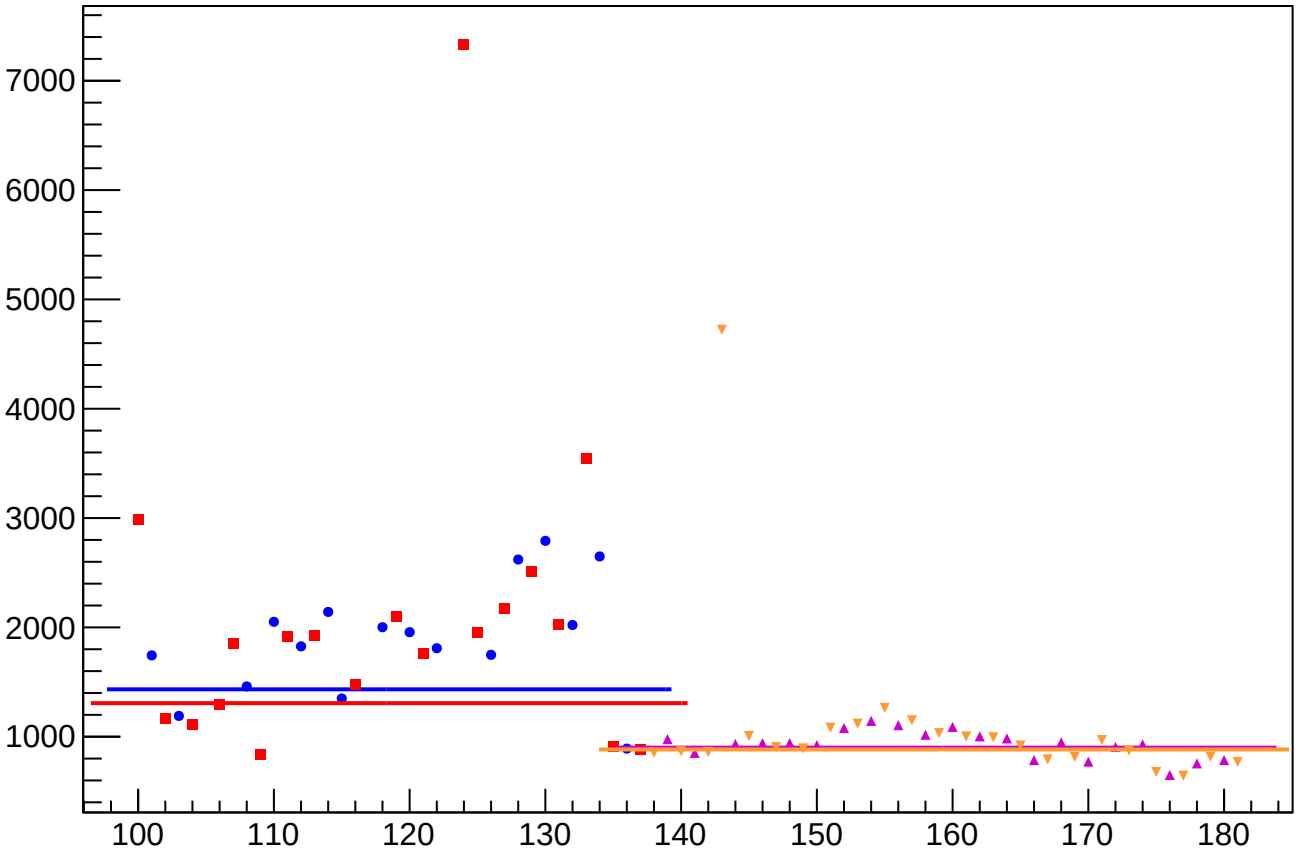
Left: 291.840+/-152.737 $\chi^2$/NDF: 86.2/43

Right: 126.521+/-386.051 $\chi^2$/NDF: 40.6/34

In: -123.395+/-204.764 $\chi^2$/NDF:46.6/36

Out: 633.688+/-197.159 $\chi^2$/NDF:73.2/41

All: 269.465+/-142.025 $\chi^2$/NDF: 126.9/78




Right In: 1433.477+/-0.404 $\chi^2$/NDF: 1763491.8/15

Left Out: 882.997+/-0.150 $\chi^2$/NDF:2022766.4/22

Right Out: 1306.866+/-0.370 $\chi^2$/NDF: 2183906.3/18

Left In: 900.089+/-0.155 $\chi^2$/NDF:675474.5/20

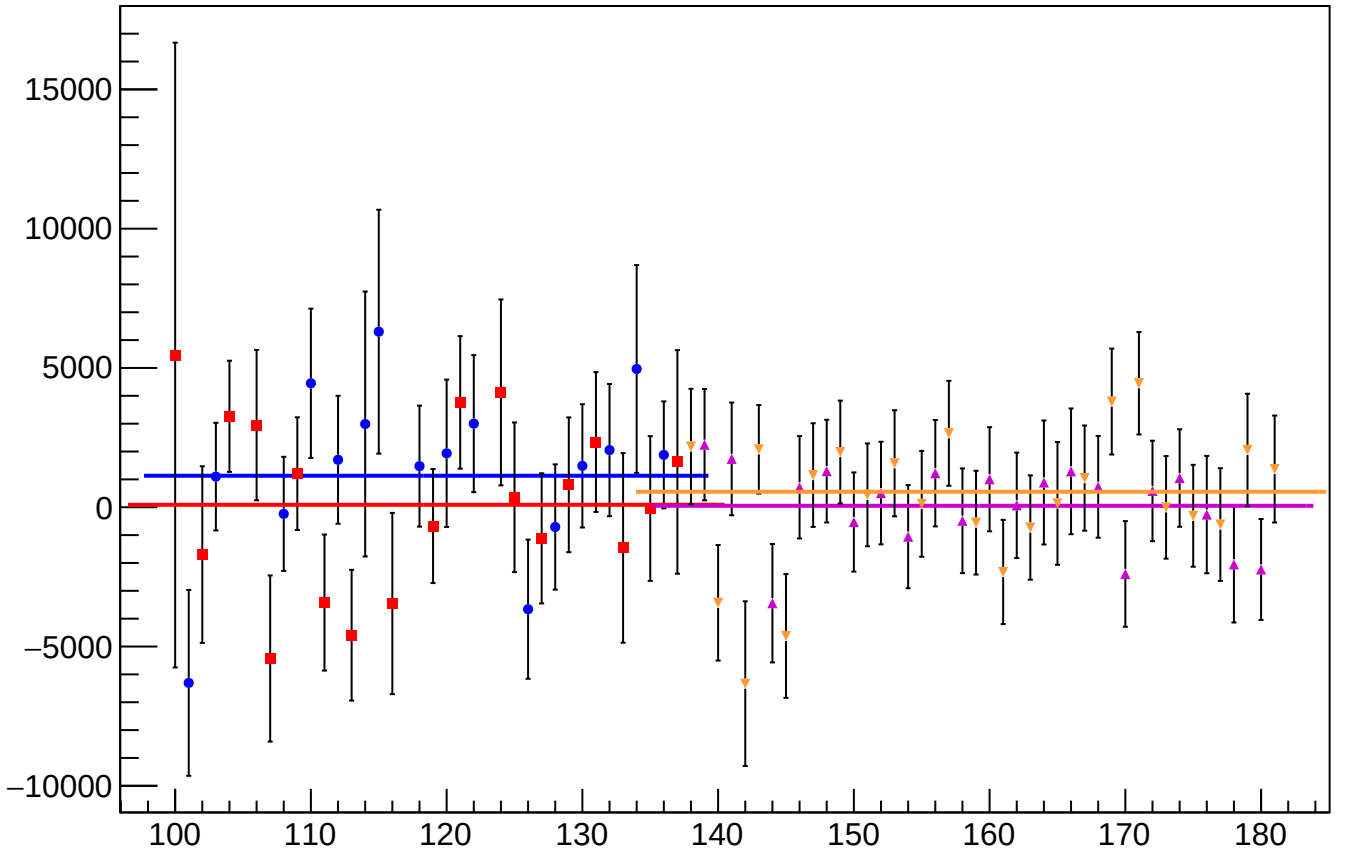
Left: 891.287+/-0.108 $\chi^2$/NDF: 2704496.8/43

Right: 1364.618+/-0.273 $\chi^2$/NDF: 4000764.0/34

In: 968.536+/-0.145 $\chi^2$/NDF:3956969.7/36

Out: 943.124+/-0.139 $\chi^2$/NDF:5331951.4/41

All: 955.350+/-0.100 $\chi^2$/NDF: 9304904.9/78




Right In: 1130.728+/-617.236 $\chi^2$/NDF: 15.0/15

Left Out: 555.941+/-402.843 $\chi^2$/NDF:30.4/22

Right Out: 89.225+/-603.072 $\chi^2$/NDF: 20.7/18

Left In: 52.031+/-418.826 $\chi^2$/NDF:11.7/20

Left: 313.784+/-290.339 $\chi^2$/NDF: 42.9/43

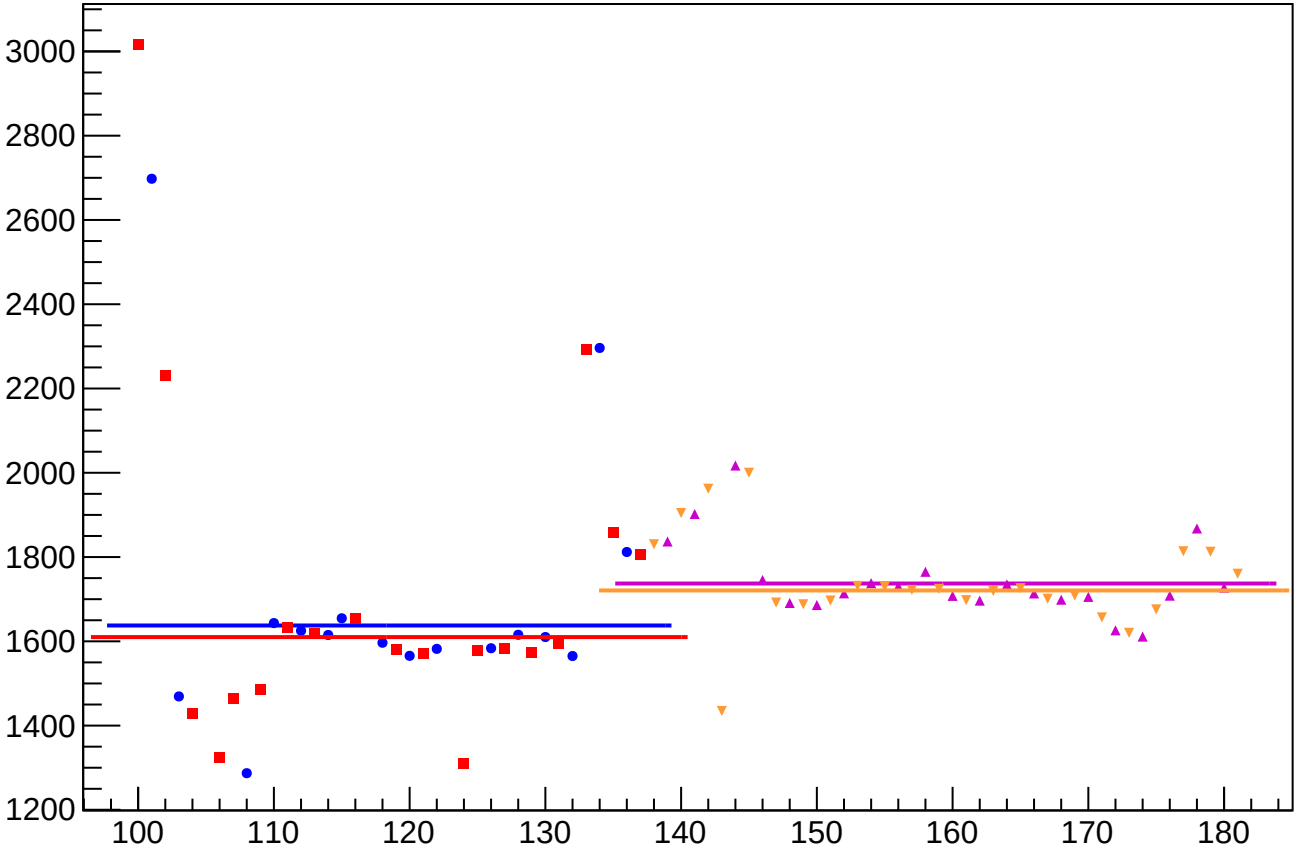
Right: 597.890+/-431.357 $\chi^2$/NDF: 37.1/34

In: 392.112+/-346.572 $\chi^2$/NDF:28.8/36

Out: 411.943+/-334.982 $\chi^2$/NDF:51.5/41

All: 402.365+/-240.861 $\chi^2$/NDF: 80.3/78

# eigen_dit_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1637.574+/-0.436 $\chi^2$/NDF: 361416.8/15

Left Out: 1720.733+/-0.285 $\chi^2$/NDF:152179.2/22

Right Out: 1610.043+/-0.426 $\chi^2$/NDF: 280812.7/18

Left In: 1737.178+/-0.296 $\chi^2$/NDF:85985.4/20

Left: 1728.636+/-0.205 $\chi^2$/NDF: 239766.2/43

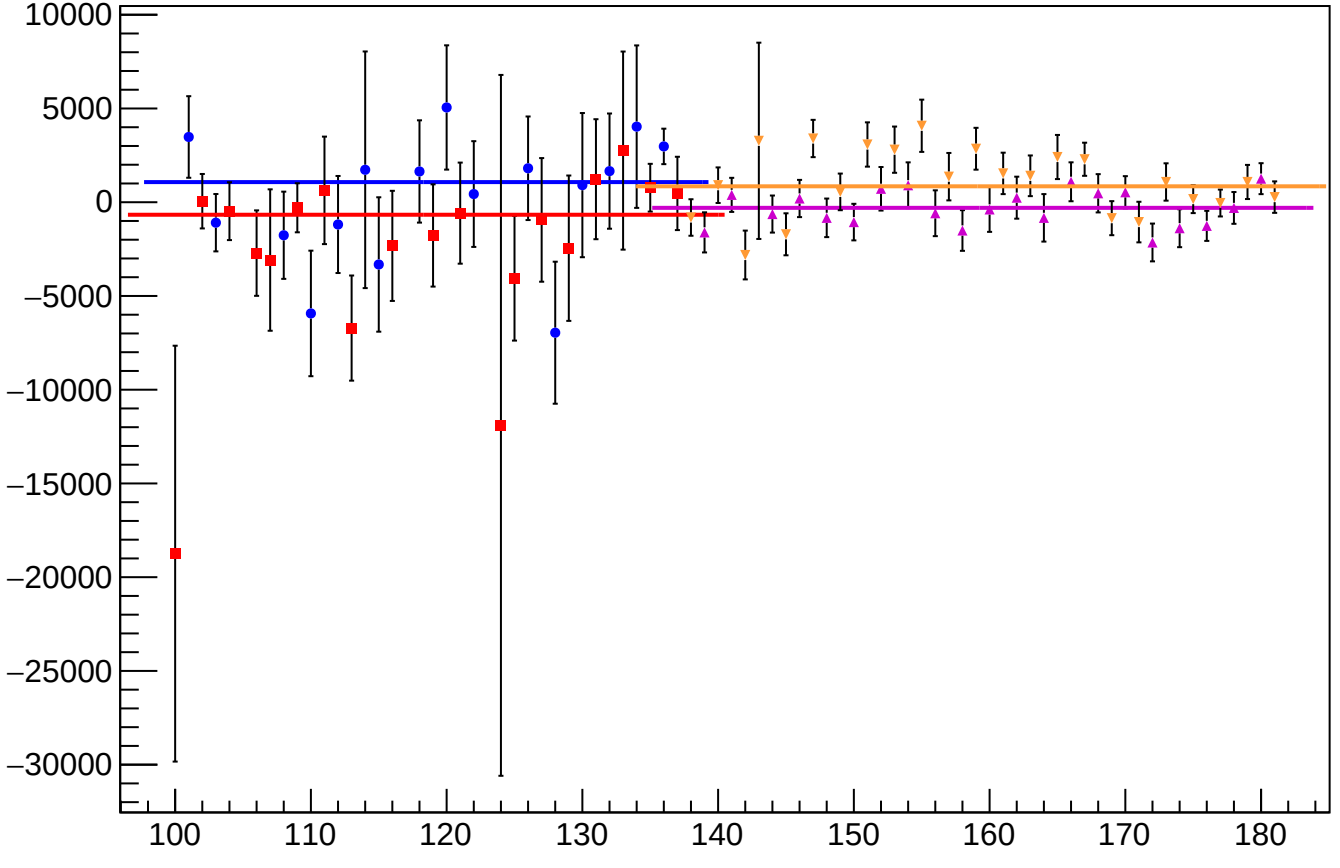
Right: 1623.489+/-0.305 $\chi^2$/NDF: 644265.1/34

In: 1705.775+/-0.245 $\chi^2$/NDF:483063.8/36

Out: 1686.581+/-0.237 $\chi^2$/NDF:479580.6/41

All: 1695.852+/-0.170 $\chi^2$/NDF: 965815.9/78

asym_at2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 1073.589+/-571.613 $\chi^2$/NDF: 22.0/15

Left Out: 848.825+/-212.832 $\chi^2$/NDF:52.5/22

Right Out: -667.789+/-523.481 $\chi^2$/NDF: 13.6/18

Left In: -299.608+/-219.318 $\chi^2$/NDF:19.6/20

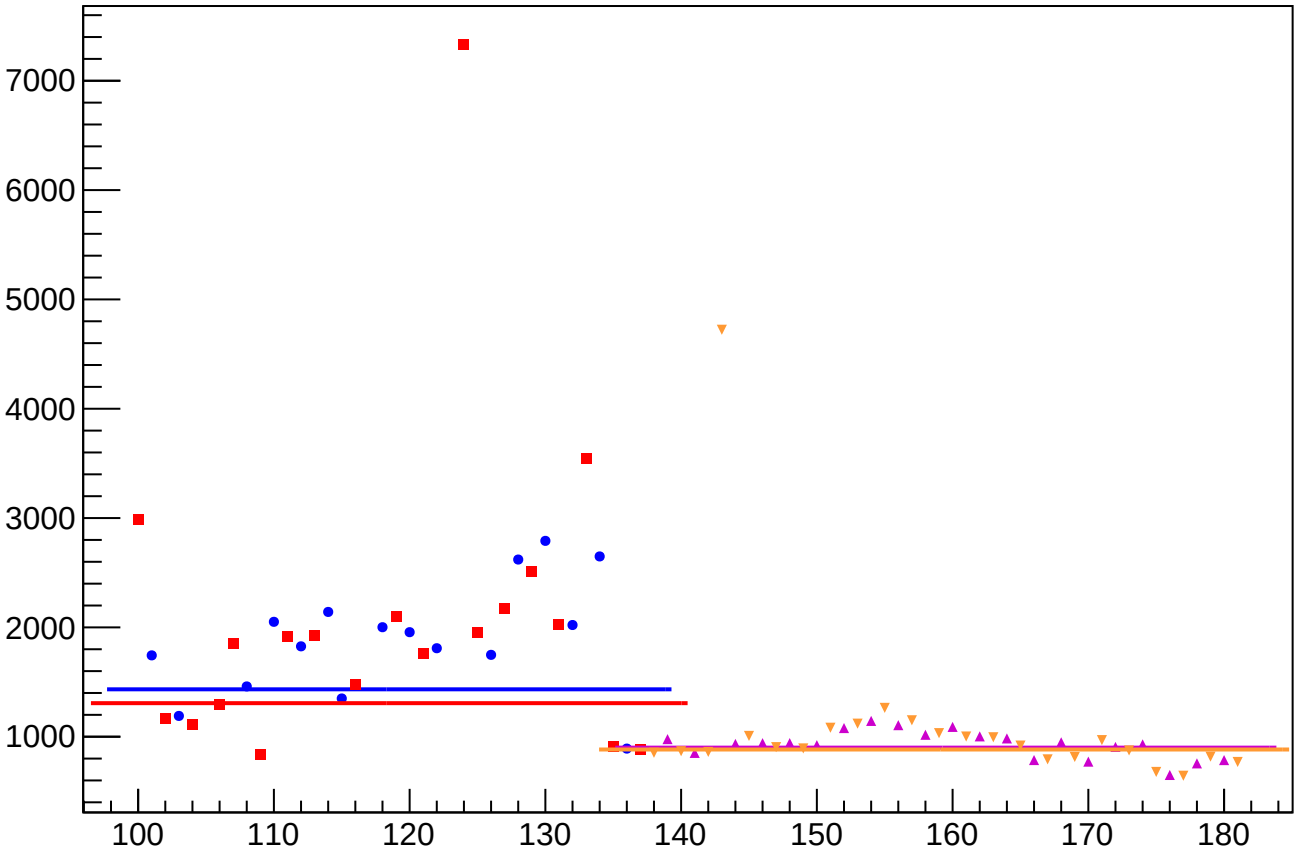
Left: 291.842+/-152.736 $\chi^2$/NDF: 86.2/43

Right: 126.509+/-386.053 $\chi^2$/NDF: 40.6/34

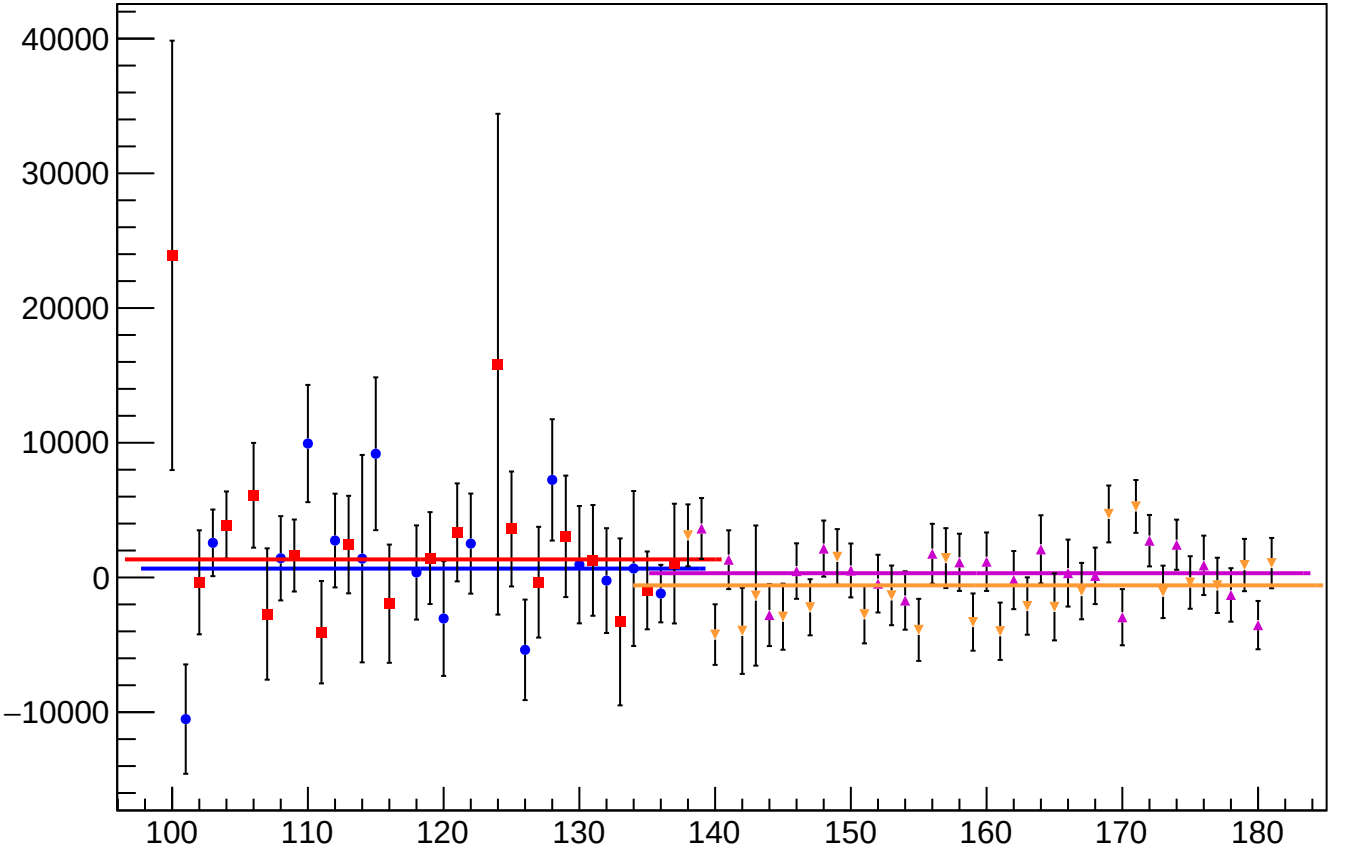
In: -123.397+/-204.764 $\chi^2$/NDF:46.6/36

Out: 633.691+/-197.159 $\chi^2$/NDF:73.2/41

All: 269.466+/-142.025 $\chi^2$/NDF: 126.9/78


asym_at2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
110
120
130
140
150
160
170
180
Right In: 1433.492+/-0.404 χ²/NDF: 1763397.4/15
Left Out: 882.997+/-0.150 χ²/NDF:2022758.9/22
Right Out: 1306.880+/-0.370 χ²/NDF: 2183835.0/18
Left In: 900.088+/-0.155 χ²/NDF:675485.6/20
Left: 891.286+/-0.108 χ²/NDF: 2704499.3/43
Right: 1364.632+/-0.273 χ²/NDF: 4000599.5/34
In: 968.536+/-0.145 χ²/NDF:3956964.9/36
Out: 943.126+/-0.139 χ²/NDF:5331928.9/41
All: 955.350+/-0.100 χ²/NDF: 9304875.7/78

# asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 659.458+/-909.570 $\chi^2$/NDF: 22.0/15

Left Out: -586.034+/-455.617 $\chi^2$/NDF:34.8/22

Right Out: 1341.998+/-890.576 $\chi^2$/NDF: 10.8/18

Left In: 315.396+/-461.284 $\chi^2$/NDF:17.9/20

Left: -140.891+/-324.155 $\chi^2$/NDF: 54.7/43

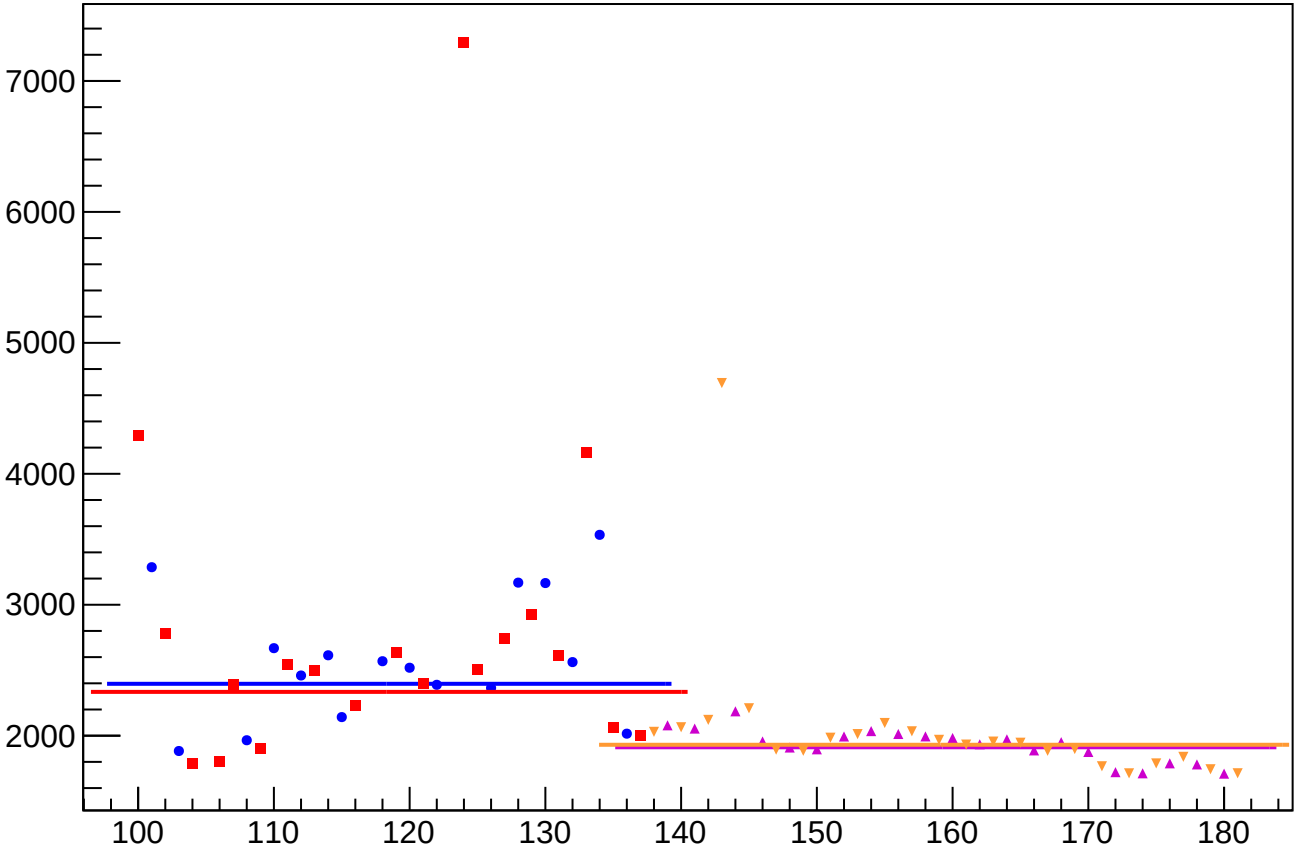
Right: 1007.929+/-636.341 $\chi^2$/NDF: 33.1/34

In: 385.784+/-411.403 $\chi^2$/NDF:40.0/36

Out: -186.085+/-405.617 $\chi^2$/NDF:49.4/41

All: 95.800+/-288.838 $\chi^2$/NDF: 90.4/78

# asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 2396.276+/-0.643 $\chi^2$/NDF: 507897.2/15

Left Out: 1930.694+/-0.322 $\chi^2$/NDF:730251.7/22

Right Out: 2334.592+/-0.630 $\chi^2$/NDF: 681568.6/18

Left In: 1911.548+/-0.326 $\chi^2$/NDF:153363.6/20

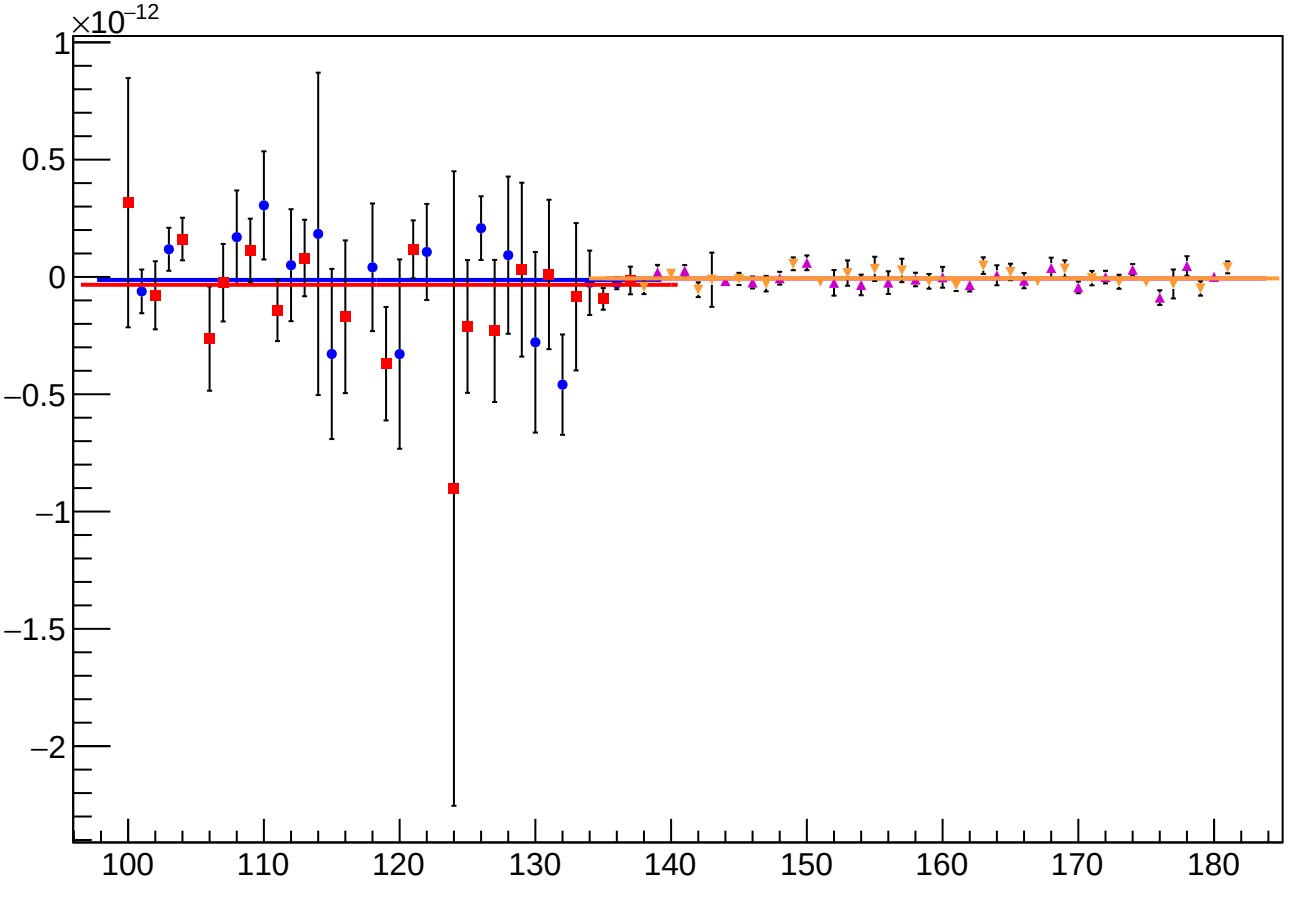
Left: 1921.239+/-0.229 $\chi^2$/NDF: 885359.5/43

Right: 2364.783+/-0.450 $\chi^2$/NDF: 1194162.0/34

In: 2010.713+/-0.291 $\chi^2$/NDF:1113067.0/36

Out: 2014.479+/-0.287 $\chi^2$/NDF:1737860.3/41

All: 2012.623+/-0.204 $\chi^2$/NDF: 2851012.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:24.6/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:24.4/20

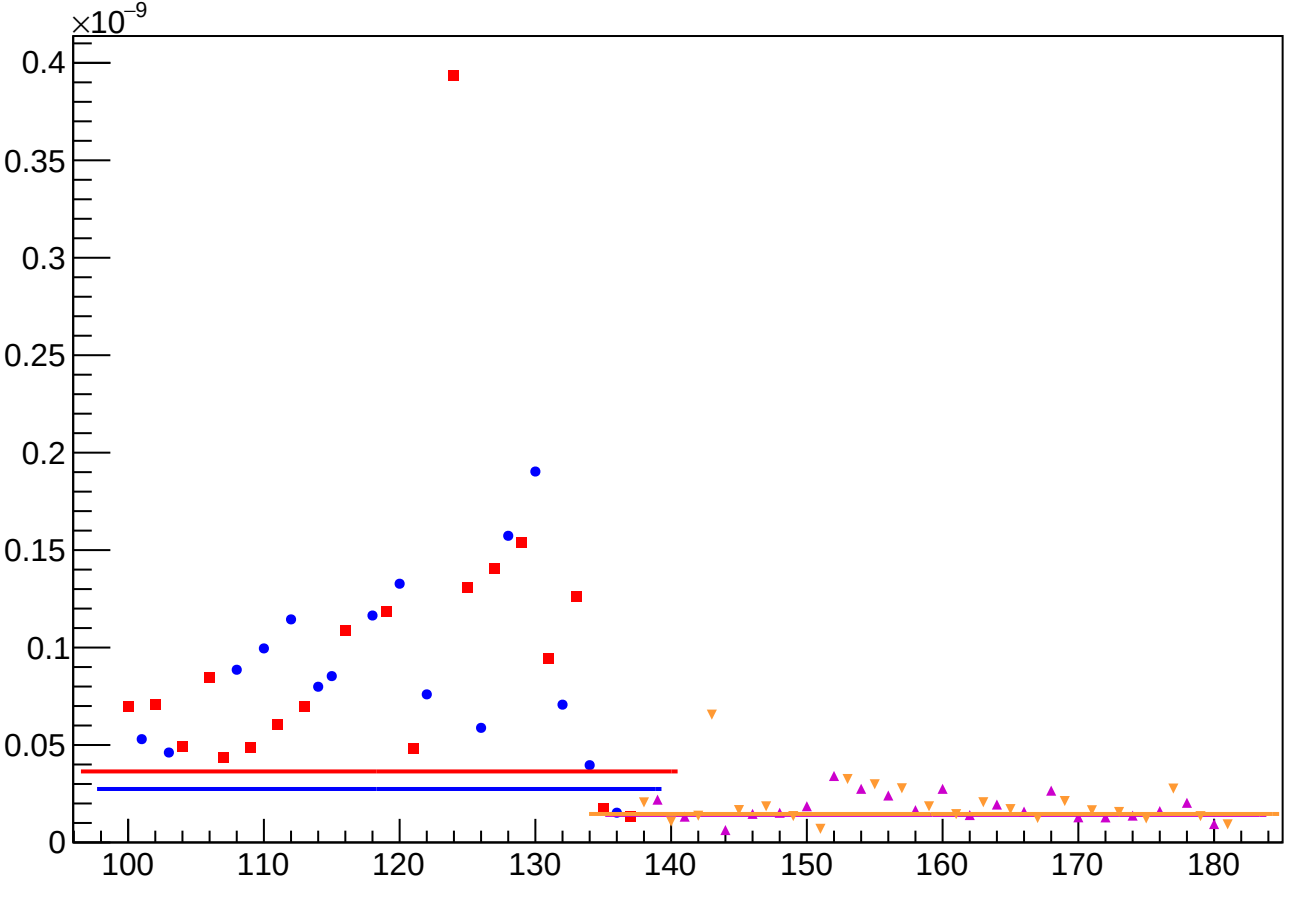
Left: -0.000+/-0.000 $\chi^2$/NDF: 49.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:39.3/36

Out: -0.000+/-0.000 $\chi^2$/NDF:40.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 80.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2728016.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1865343.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2442395.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1907026.9/20

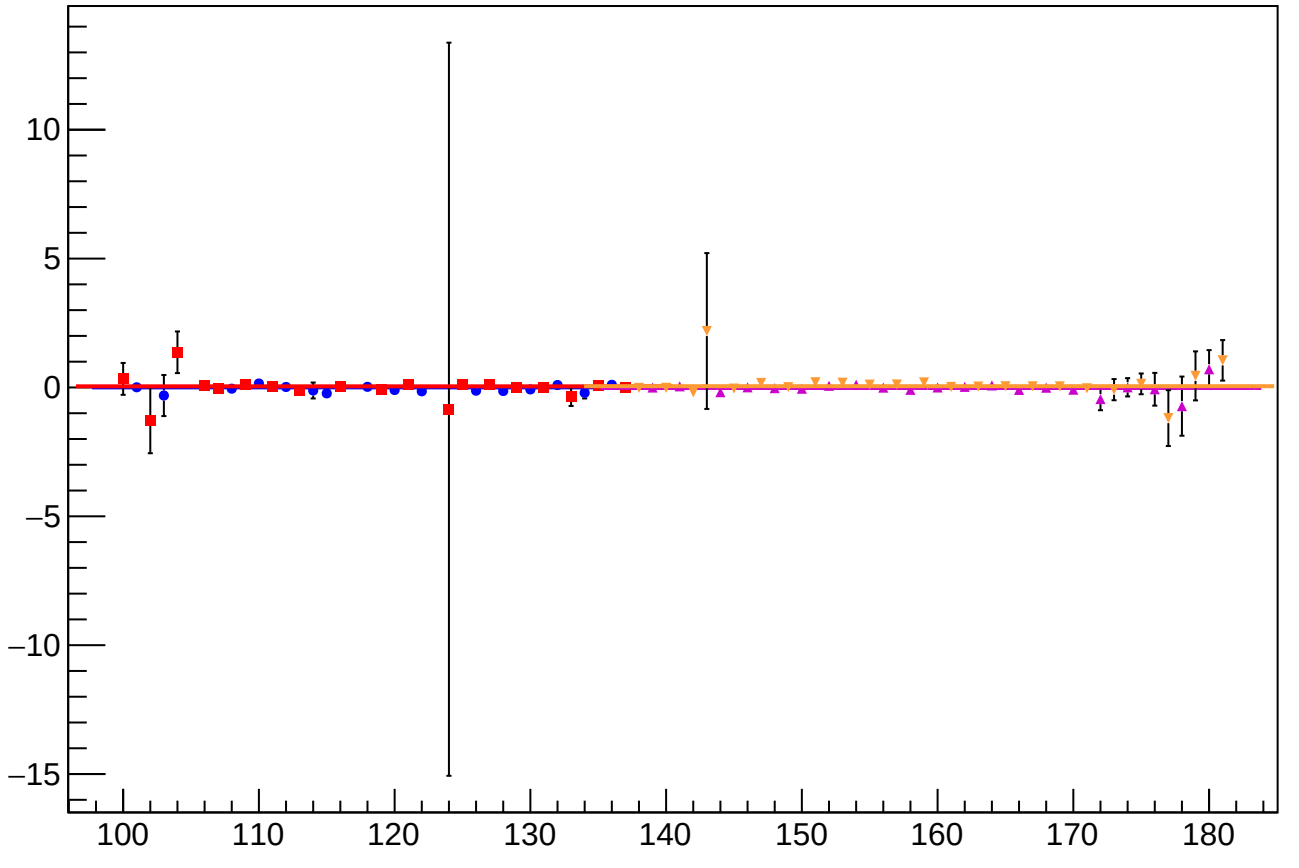
Left: 0.000+/-0.000 $\chi^2$/NDF: 3778758.7/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5297550.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:5303666.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5469704.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10781067.5/78




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: 0.049+/-0.017 $\chi^2$/NDF:23.0/22

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.020+/-0.017 $\chi^2$/NDF:14.1/20

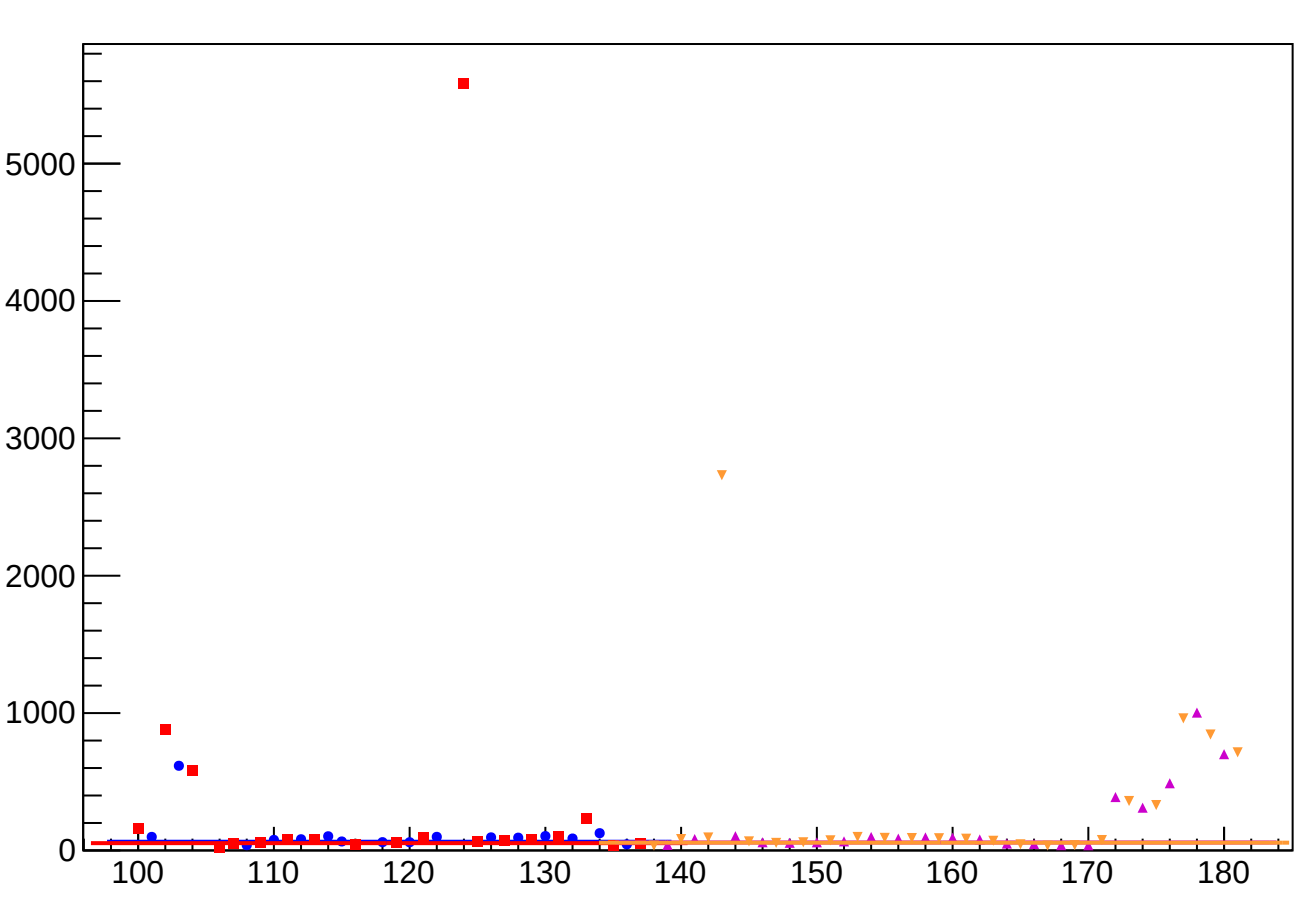
Left: 0.015+/-0.012 $\chi^2$/NDF: 45.3/43

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.013+/-0.015 $\chi^2$/NDF:27.9/36

Out: 0.047+/-0.014 $\chi^2$/NDF:35.7/41

All: 0.018+/-0.010 $\chi^2$/NDF: 72.7/78




Right In: 63.454+/-0.019 $\chi^2$/NDF: 2445255.1/15

Left Out: 56.653+/-0.012 $\chi^2$/NDF:10749898.6/22

Right Out: 53.206+/-0.018 $\chi^2$/NDF: 3945779.6/18

Left In: 57.964+/-0.012 $\chi^2$/NDF:8647942.4/20

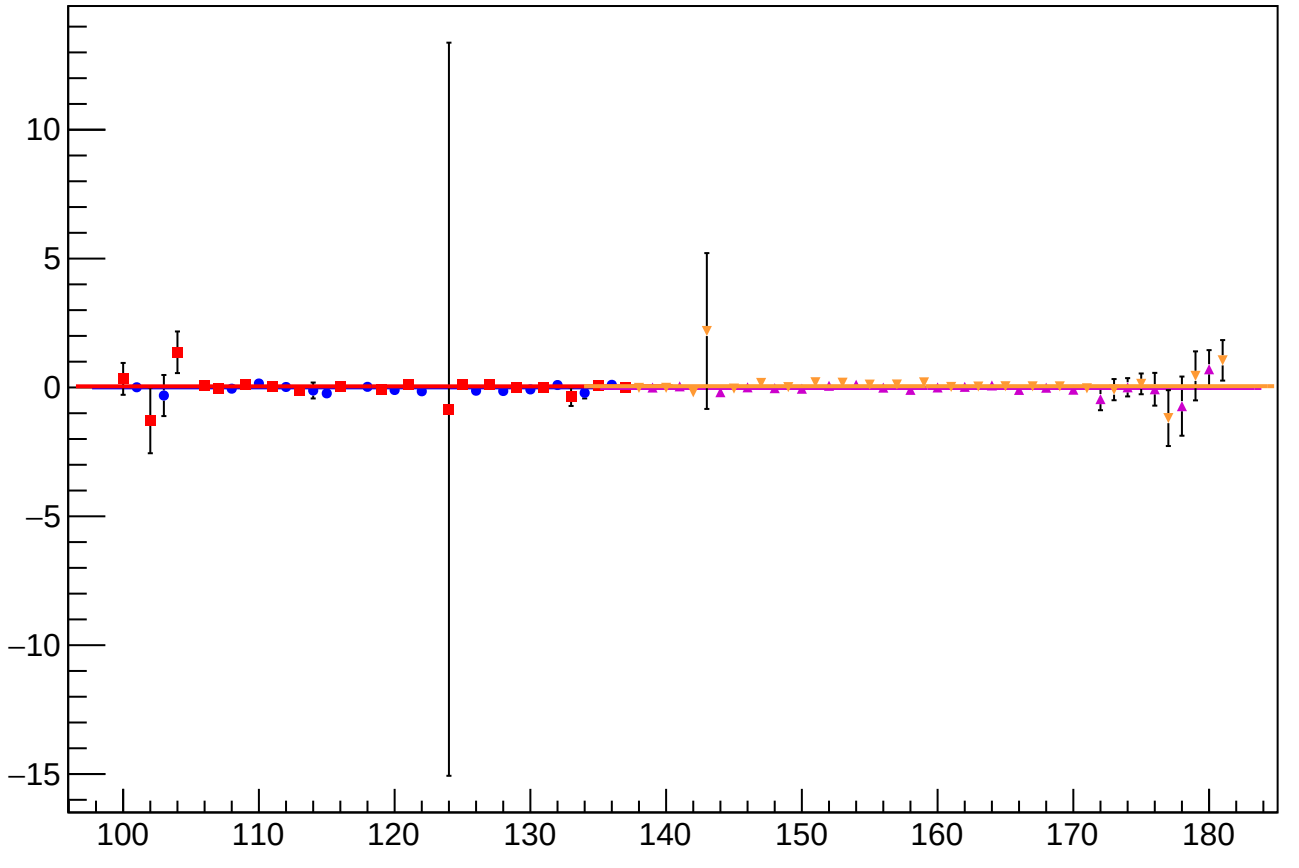
Left: 57.305+/-0.009 $\chi^2$/NDF: 19403717.0/43

Right: 57.863+/-0.013 $\chi^2$/NDF: 6545762.5/34

In: 59.523+/-0.010 $\chi^2$/NDF:11151481.7/36

Out: 55.550+/-0.010 $\chi^2$/NDF:14721871.5/41

All: 57.474+/-0.007 $\chi^2$/NDF: 25950772.6/78




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: 0.049+/-0.017 $\chi^2$/NDF:23.0/22

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.020+/-0.017 $\chi^2$/NDF:14.1/20

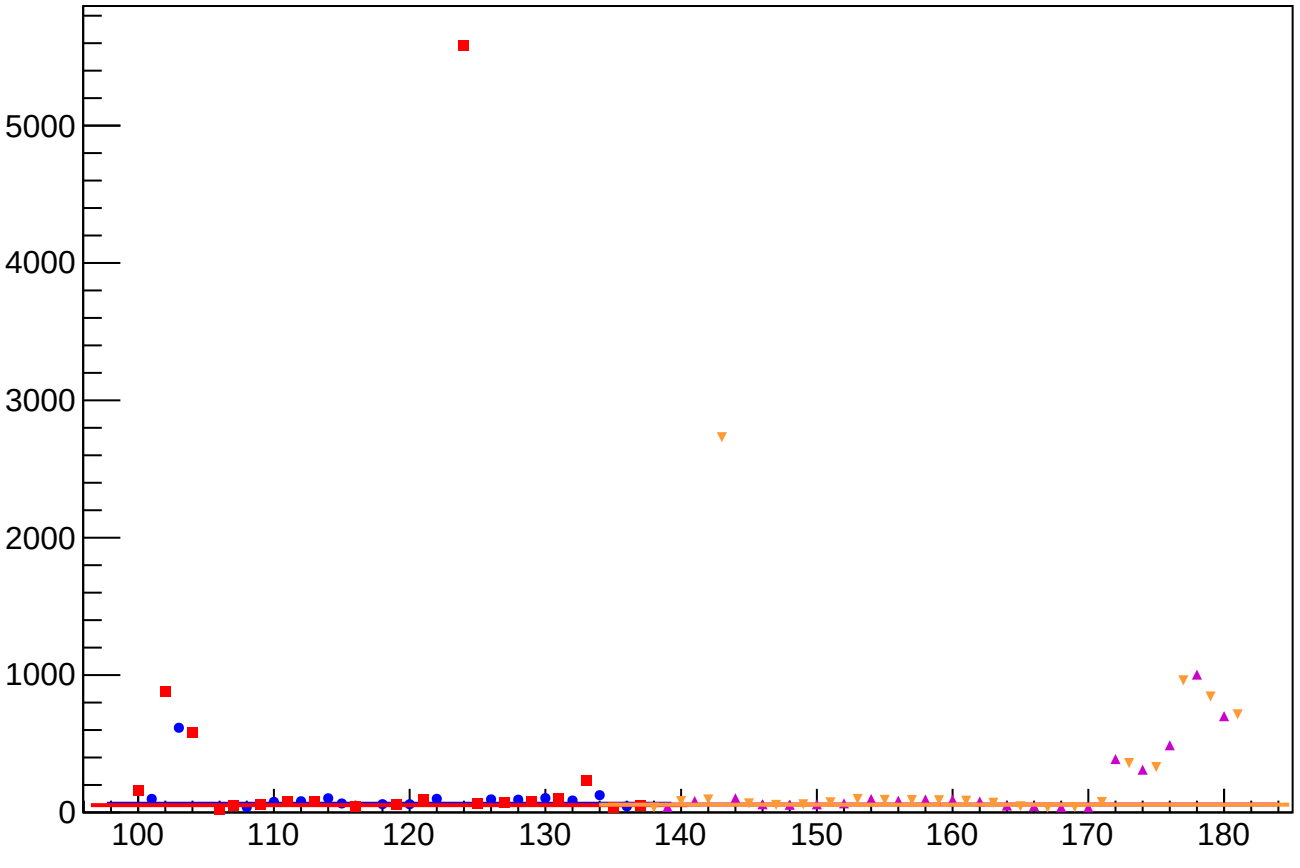
Left: 0.015+/-0.012 $\chi^2$/NDF: 45.3/43

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.013+/-0.015 $\chi^2$/NDF:27.9/36

Out: 0.047+/-0.014 $\chi^2$/NDF:35.7/41

All: 0.018+/-0.010 $\chi^2$/NDF: 72.7/78




Right In: 63.454+/-0.019 $\chi^2$/NDF: 2445255.1/15

Left Out: 56.653+/-0.012 $\chi^2$/NDF:10749898.6/22

Right Out: 53.206+/-0.018 $\chi^2$/NDF: 3945779.6/18

Left In: 57.964+/-0.012 $\chi^2$/NDF:8647942.4/20

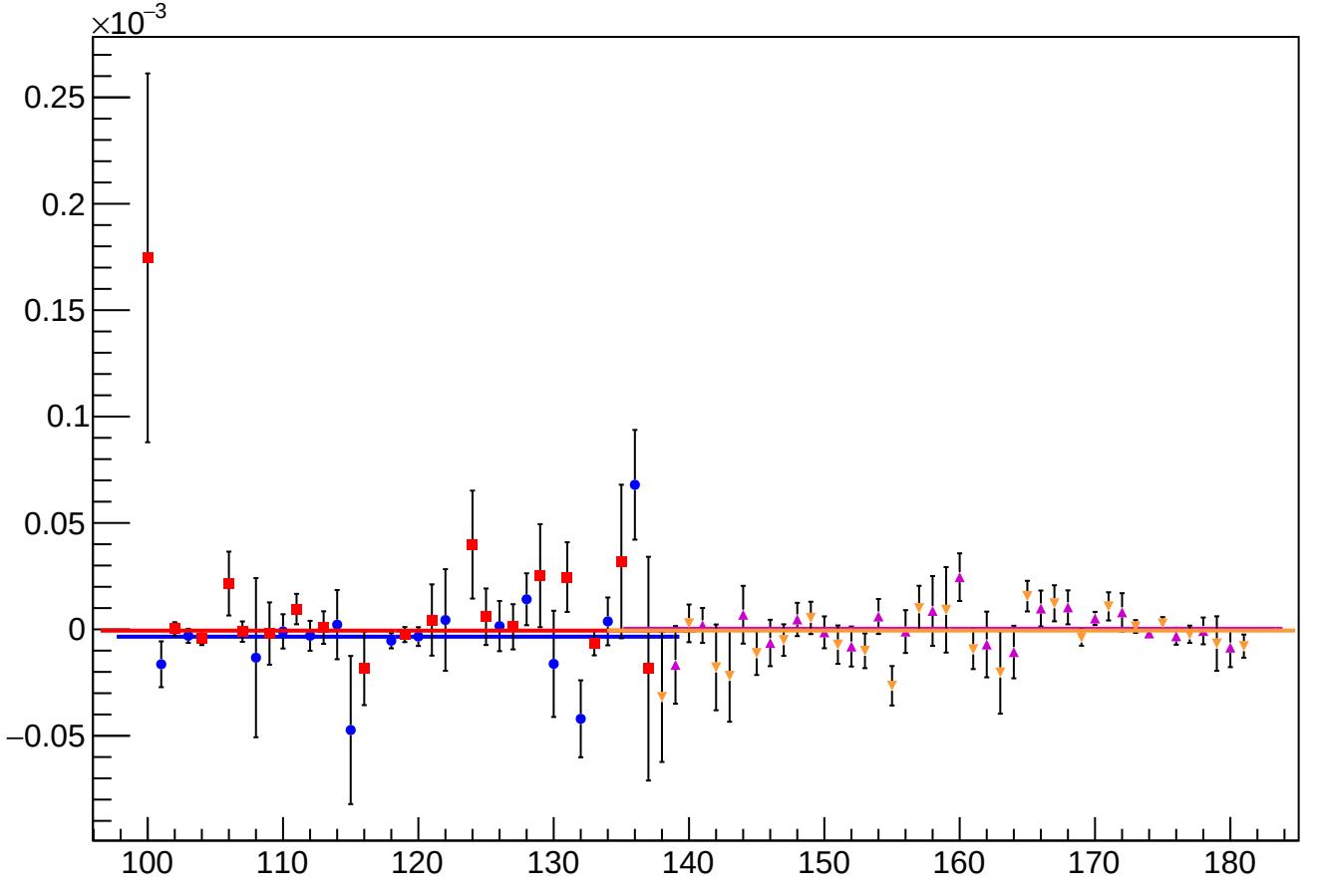
Left: 57.305+/-0.009 $\chi^2$/NDF: 19403717.0/43

Right: 57.863+/-0.013 $\chi^2$/NDF: 6545762.5/34

In: 59.523+/-0.010 $\chi^2$/NDF:11151481.7/36

Out: 55.550+/-0.010 $\chi^2$/NDF:14721871.5/41

All: 57.474+/-0.007 $\chi^2$/NDF: 25950772.6/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:32.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.3/20

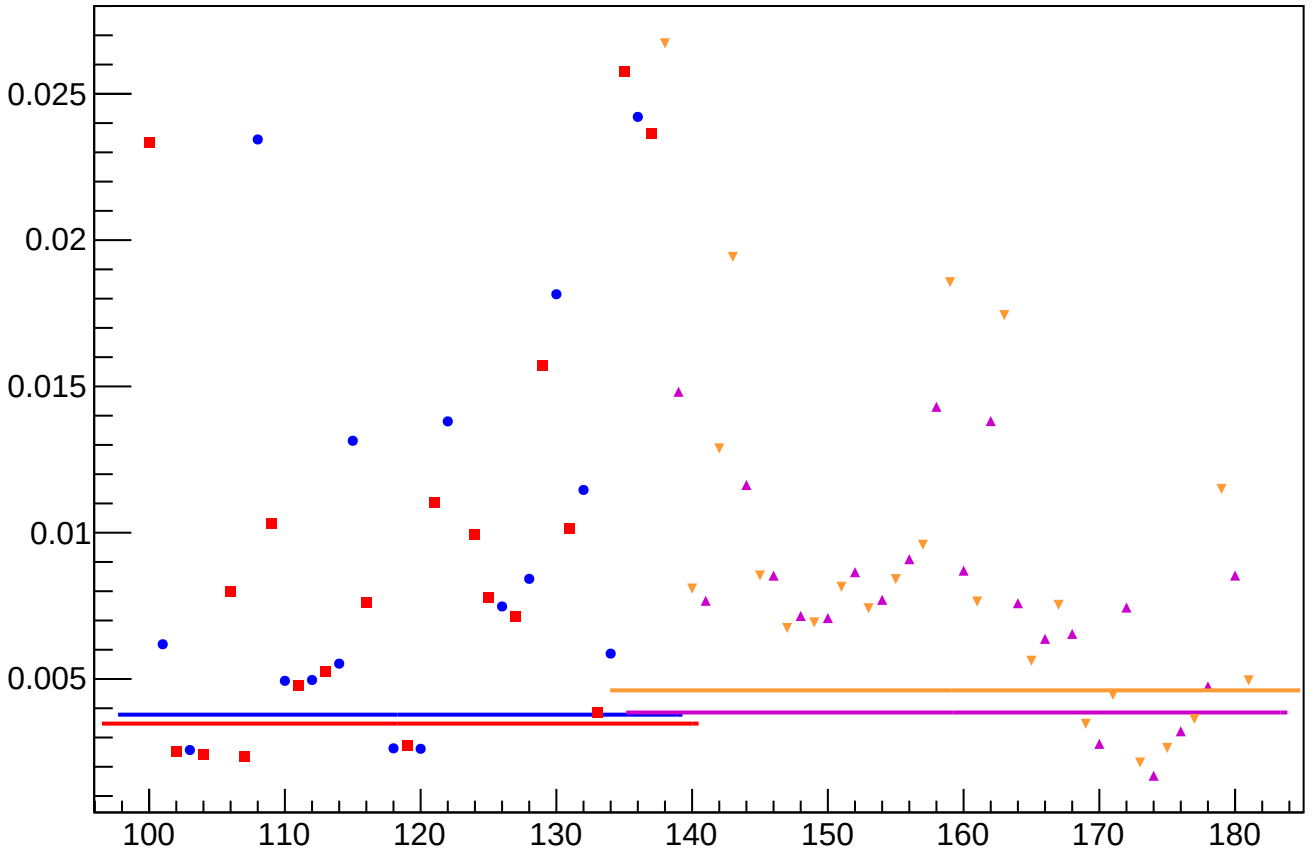
Left: -0.000+/-0.000 $\chi^2$/NDF: 51.2/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:40.1/36

Out: -0.000+/-0.000 $\chi^2$/NDF:51.8/41

All: -0.000+/-0.000 $\chi^2$/NDF: 92.0/78




Right In: 0.004+/-0.000 $\chi^2$/NDF: 4719536.5/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:10024611.4/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 4495340.7/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:10946128.1/20

Left: 0.004+/-0.000 $\chi^2$/NDF: 21323170.4/43

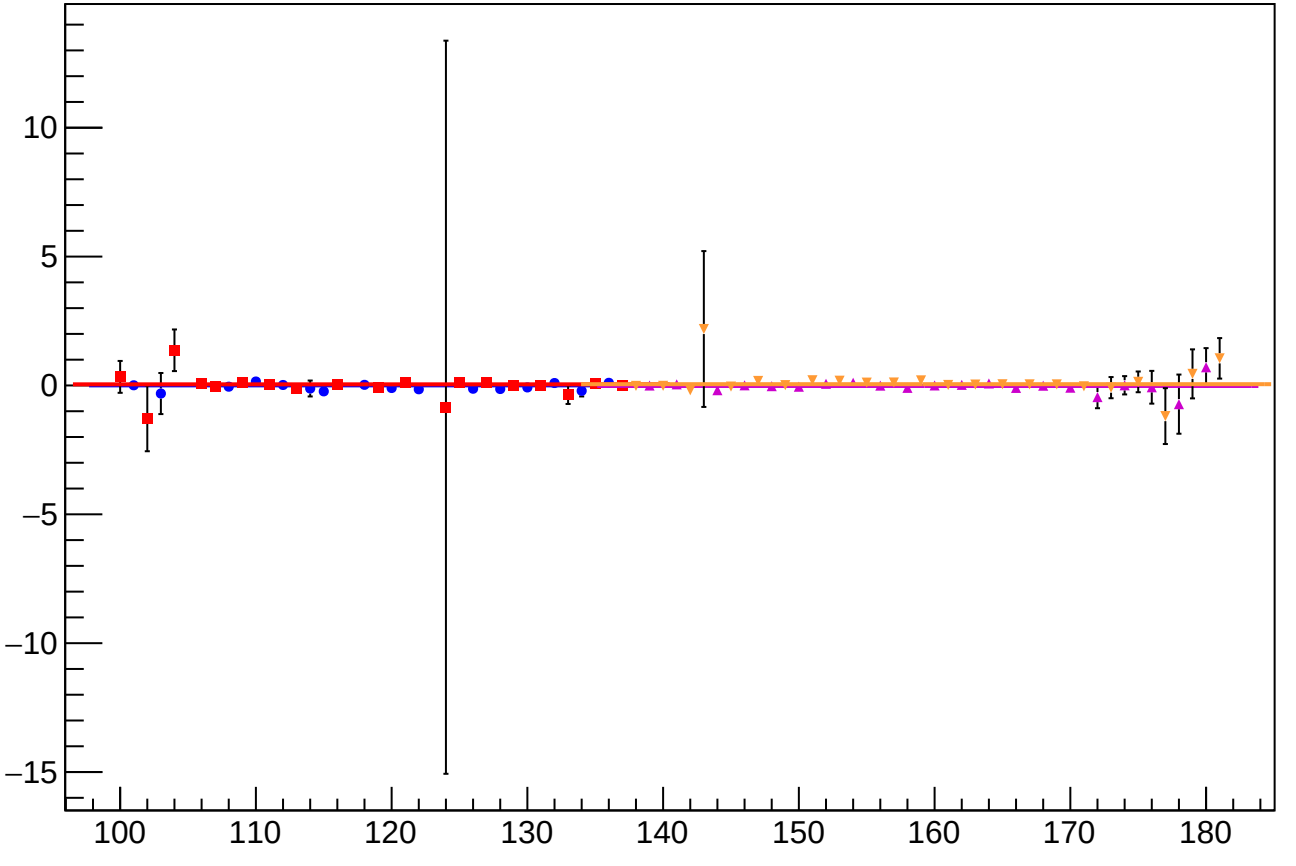
Right: 0.004+/-0.000 $\chi^2$/NDF: 9247440.2/34

In: 0.004+/-0.000 $\chi^2$/NDF:15667926.6/36

Out: 0.004+/-0.000 $\chi^2$/NDF:15144370.5/41

All: 0.004+/-0.000 $\chi^2$/NDF: 30900062.7/78

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: 0.049+/-0.017 $\chi^2$/NDF:23.0/22

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.020+/-0.017 $\chi^2$/NDF:14.1/20

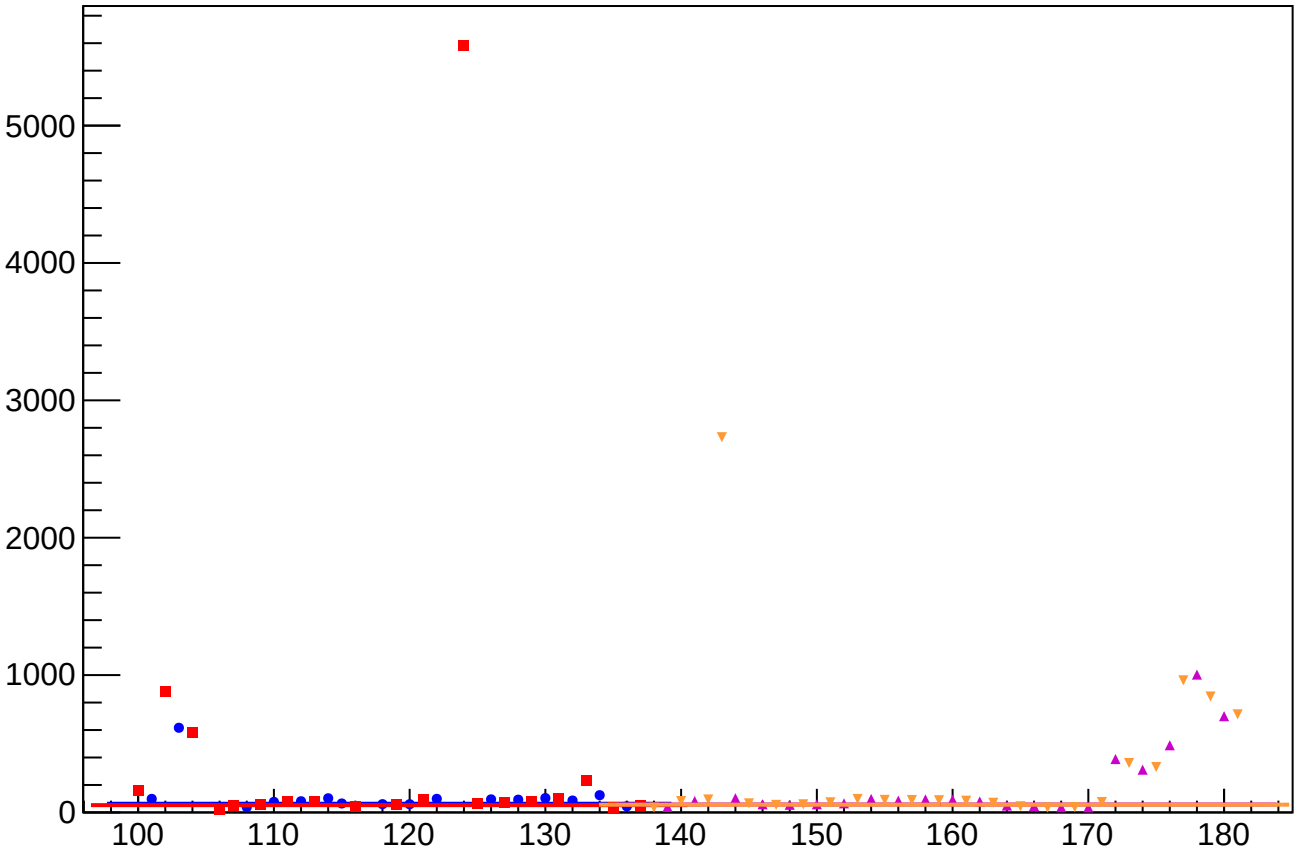
Left: 0.015+/-0.012 $\chi^2$/NDF: 45.3/43

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.013+/-0.015 $\chi^2$/NDF:27.9/36

Out: 0.047+/-0.014 $\chi^2$/NDF:35.7/41

All: 0.018+/-0.010 $\chi^2$/NDF: 72.7/78




Right In: 63.463+/-0.019 $\chi^2$/NDF: 2444357.3/15

Left Out: 56.652+/-0.012 $\chi^2$/NDF:10749631.7/22

Right Out: 53.201+/-0.018 $\chi^2$/NDF: 3946328.9/18

Left In: 57.966+/-0.012 $\chi^2$/NDF:8647453.7/20

Left: 57.305+/-0.009 $\chi^2$/NDF: 19402992.5/43

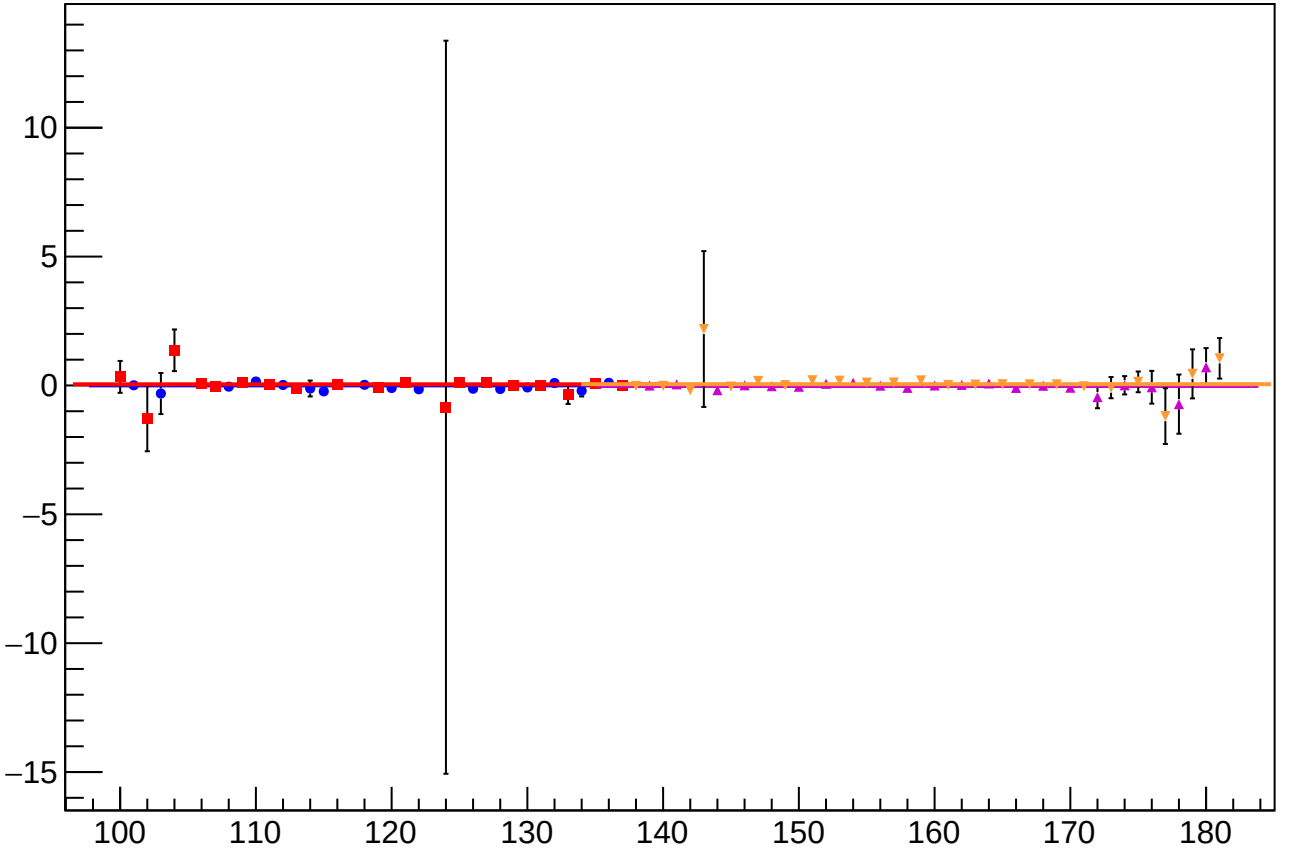
Right: 57.864+/-0.013 $\chi^2$/NDF: 6545828.7/34

In: 59.527+/-0.010 $\chi^2$/NDF:11150225.7/36

Out: 55.548+/-0.010 $\chi^2$/NDF:14722216.6/41

All: 57.474+/-0.007 $\chi^2$/NDF: 25950114.2/78

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: 0.049+/-0.017 $\chi^2$/NDF:23.0/22

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.020+/-0.017 $\chi^2$/NDF:14.1/20

Left: 0.015+/-0.012 $\chi^2$/NDF: 45.3/43

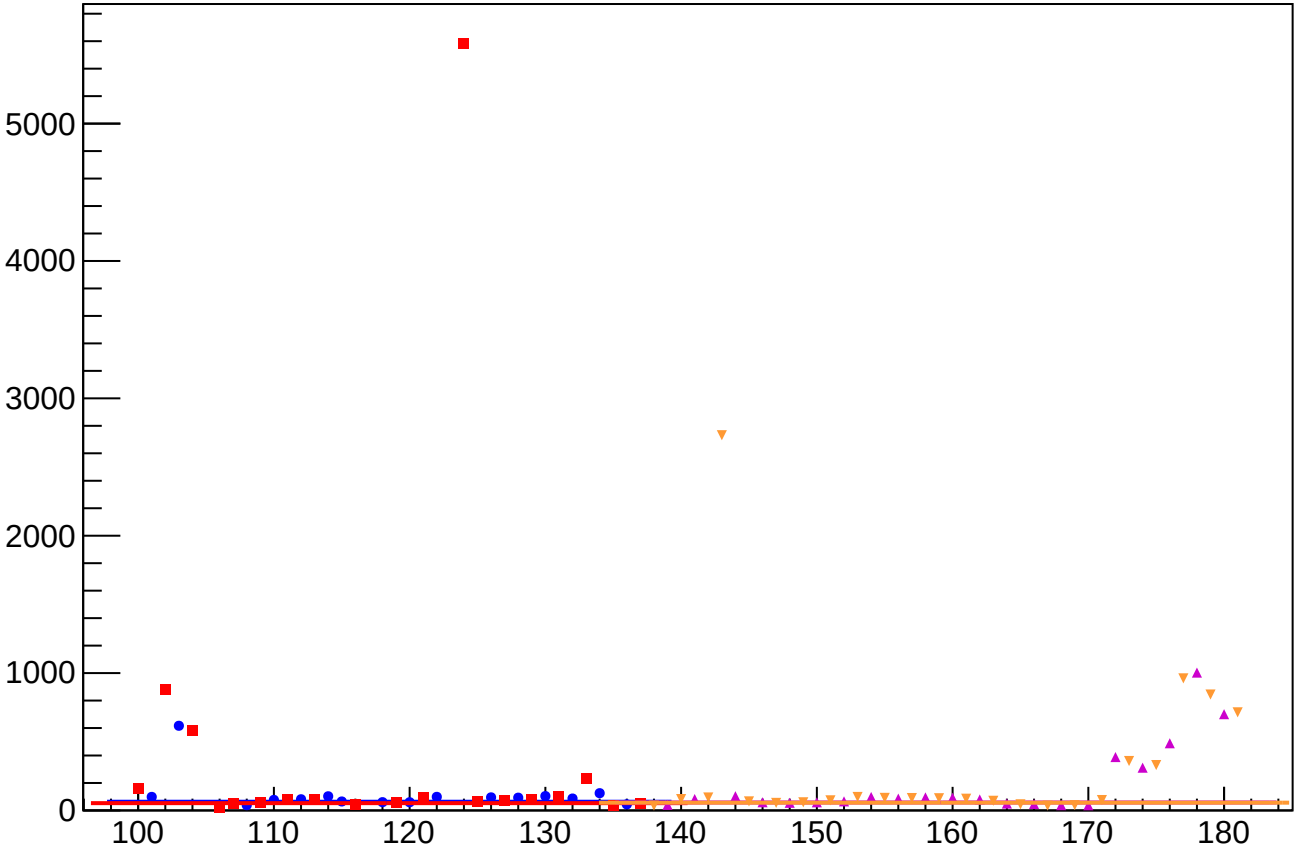
Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.013+/-0.015 $\chi^2$/NDF:27.9/36

Out: 0.047+/-0.014 $\chi^2$/NDF:35.7/41

All: 0.018+/-0.010 $\chi^2$/NDF: 72.7/78

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 63.463+/-0.019 $\chi^2$/NDF: 2444357.3/15

Left Out: 56.652+/-0.012 $\chi^2$/NDF:10749631.7/22

Right Out: 53.201+/-0.018 $\chi^2$/NDF: 3946328.9/18

Left In: 57.966+/-0.012 $\chi^2$/NDF:8647453.7/20

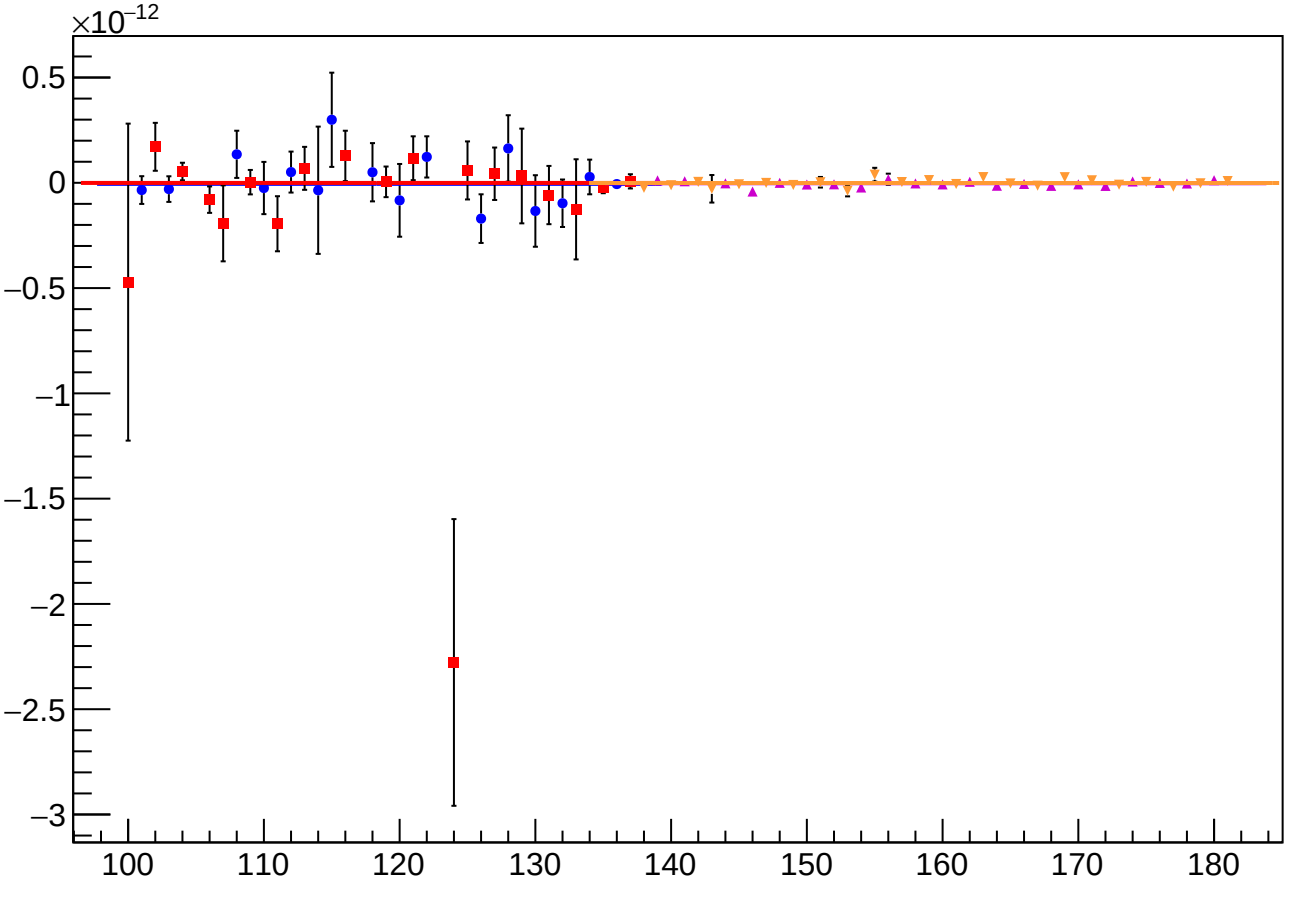
Left: 57.305+/-0.009 $\chi^2$/NDF: 19402992.5/43

Right: 57.864+/-0.013 $\chi^2$/NDF: 6545828.7/34

In: 59.527+/-0.010 $\chi^2$/NDF:11150225.7/36

Out: 55.548+/-0.010 $\chi^2$/NDF:14722216.6/41

All: 57.474+/-0.007 $\chi^2$/NDF: 25950114.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.9/20

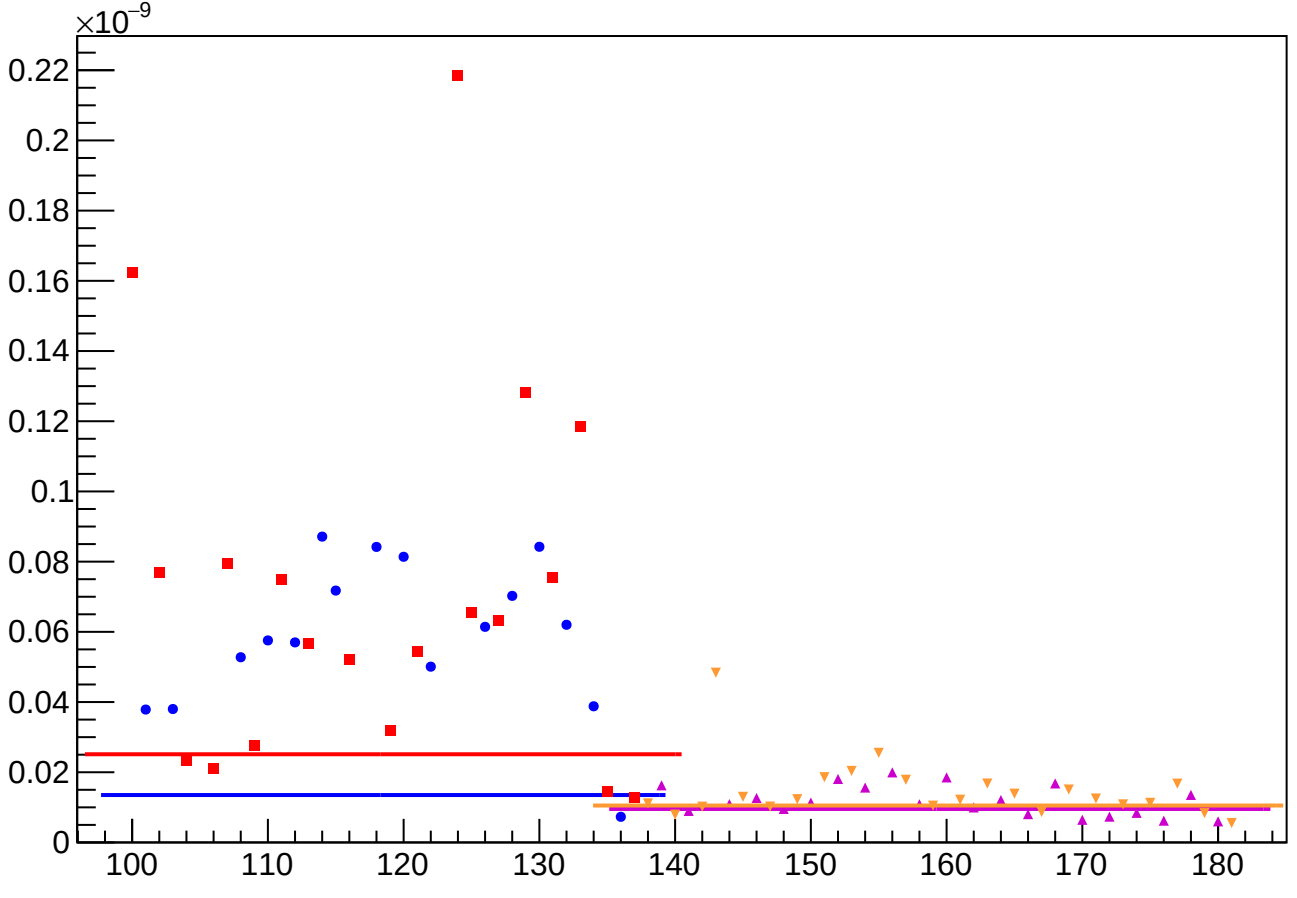
Left: -0.000+/-0.000 $\chi^2$/NDF: 31.1/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:41.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 67.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4993378.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3507218.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3578472.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2654720.7/20

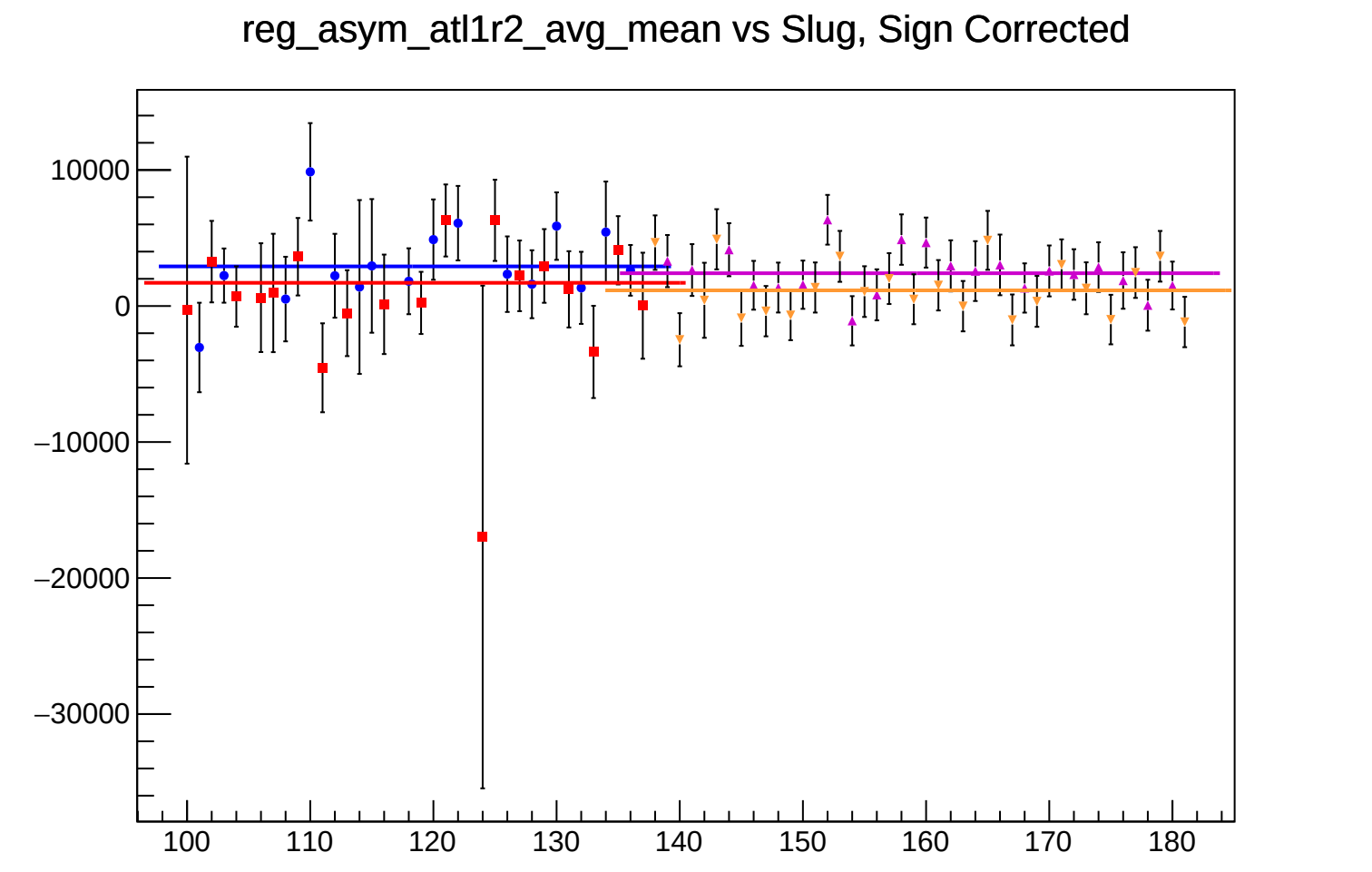
Left: 0.000+/-0.000 $\chi^2$/NDF: 6261263.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 9384983.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:7922936.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8887747.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 16993126.0/78




Right In: 2912.991+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 1150.898+/-400.761 $\chi^2$/NDF:25.4/22

Right Out: 1704.904+/-706.846 $\chi^2$/NDF: 15.8/18

Left In: 2410.518+/-410.876 $\chi^2$/NDF:16.7/20

Left: 1765.013+/-286.890 $\chi^2$/NDF: 46.9/43

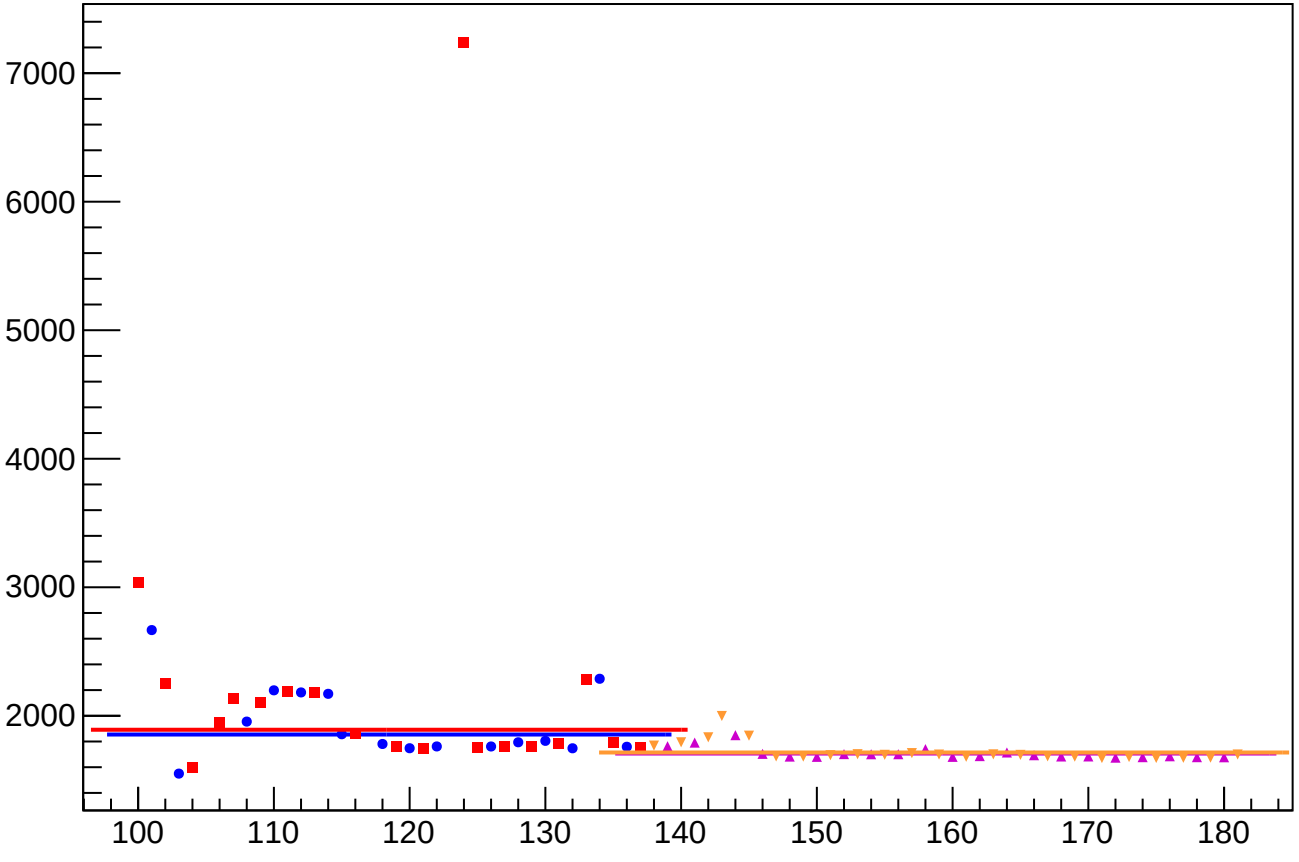
Right: 2319.102+/-495.597 $\chi^2$/NDF: 29.8/34

In: 2540.635+/-353.699 $\chi^2$/NDF:29.5/36

Out: 1285.664+/-348.625 $\chi^2$/NDF:41.7/41

All: 1904.084+/-248.290 $\chi^2$/NDF: 77.6/78

# reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.7/15

Left Out: 1714.512+/-0.283 $\chi^2$/NDF:58415.3/22

Right Out: 1891.469+/-0.499 $\chi^2$/NDF: 364050.6/18

Left In: 1706.209+/-0.291 $\chi^2$/NDF:21605.3/20

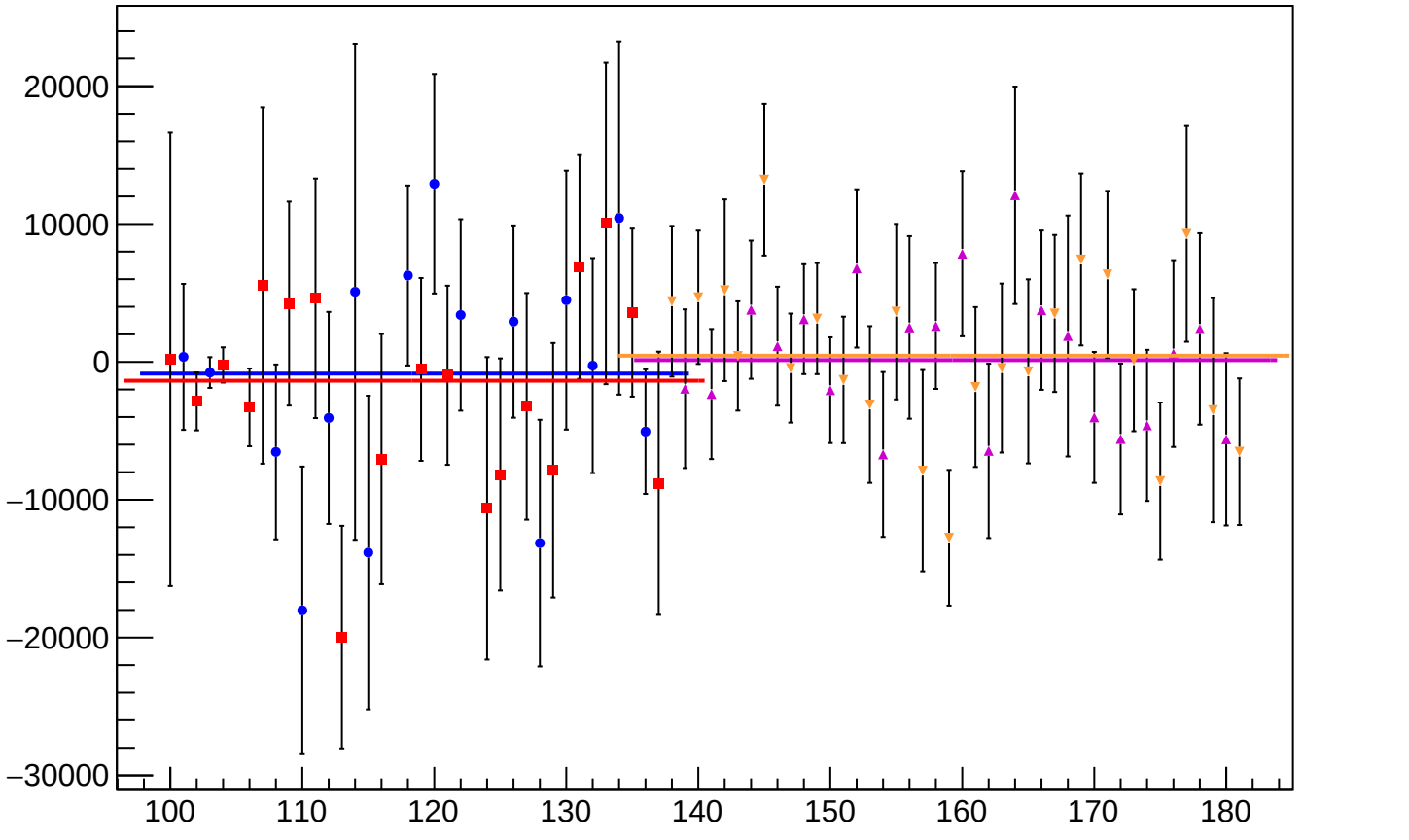
Left: 1710.464+/-0.203 $\chi^2$/NDF: 80439.2/43

Right: 1872.622+/-0.350 $\chi^2$/NDF: 630189.4/34

In: 1744.561+/-0.250 $\chi^2$/NDF:352220.7/36

Out: 1757.710+/-0.246 $\chi^2$/NDF:517654.9/41

All: 1751.234+/-0.176 $\chi^2$/NDF: 871278.4/78




Right In: -847.977+/-962.920 $\chi^2$/NDF: 13.9/15

Left Out: 450.609+/-1130.397 $\chi^2$/NDF:25.5/22

Right Out: -1361.523+/-915.925 $\chi^2$/NDF: 14.0/18

Left In: 130.097+/-1178.678 $\chi^2$/NDF:14.0/20

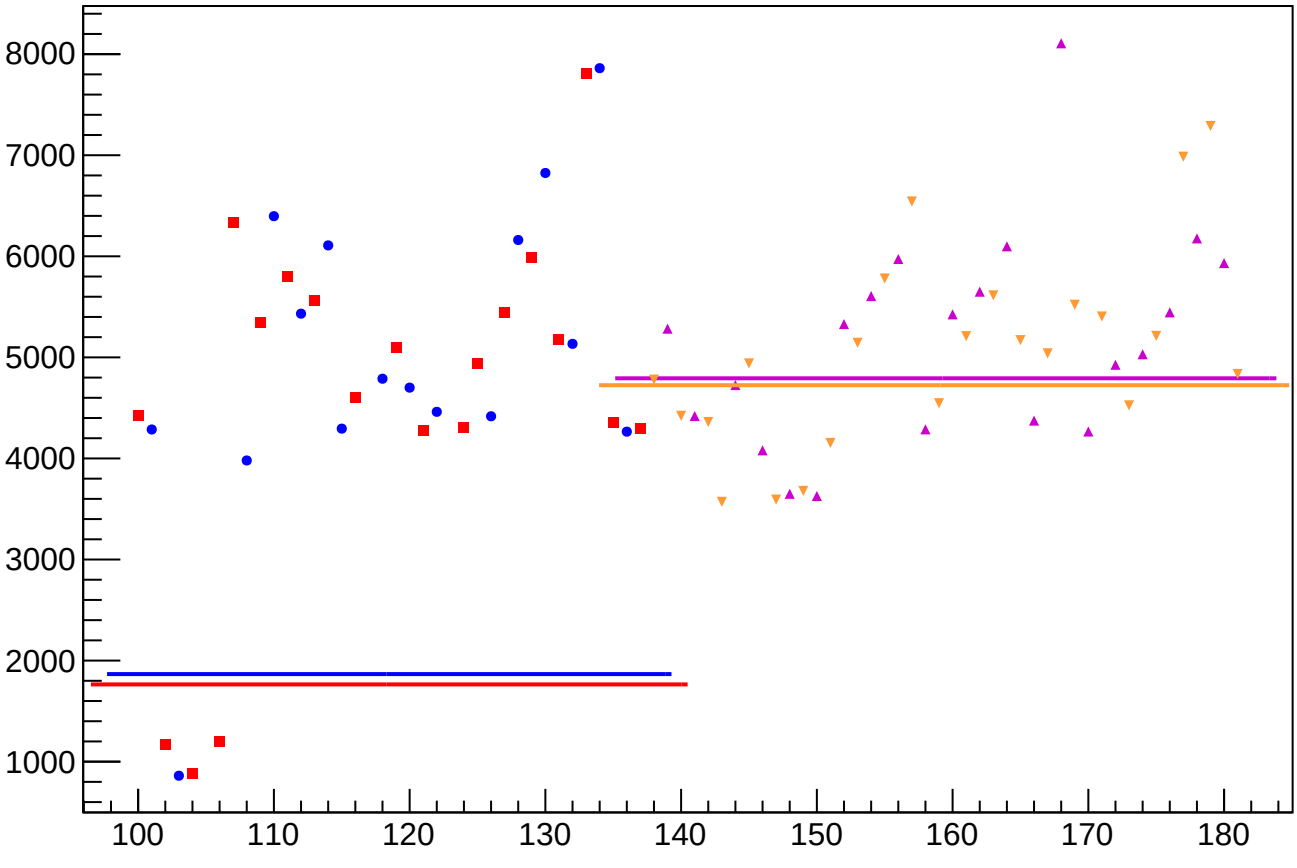
Left: 297.052+/-815.846 $\chi^2$/NDF: 39.5/43

Right: -1117.587+/-663.649 $\chi^2$/NDF: 28.0/34

In: -456.487+/-745.709 $\chi^2$/NDF:28.3/36

Out: -643.320+/-711.639 $\chi^2$/NDF:41.0/41

All: -554.269+/-514.828 $\chi^2$/NDF: 69.3/78




Right In: 1866.405+/-0.681 $\chi^2$/NDF: 6849638.3/15

Left Out: 4724.610+/-0.799 $\chi^2$/NDF:1222312.4/22

Right Out: 1764.281+/-0.648 $\chi^2$/NDF: 6434807.7/18

Left In: 4792.866+/-0.833 $\chi^2$/NDF:1179525.8/20

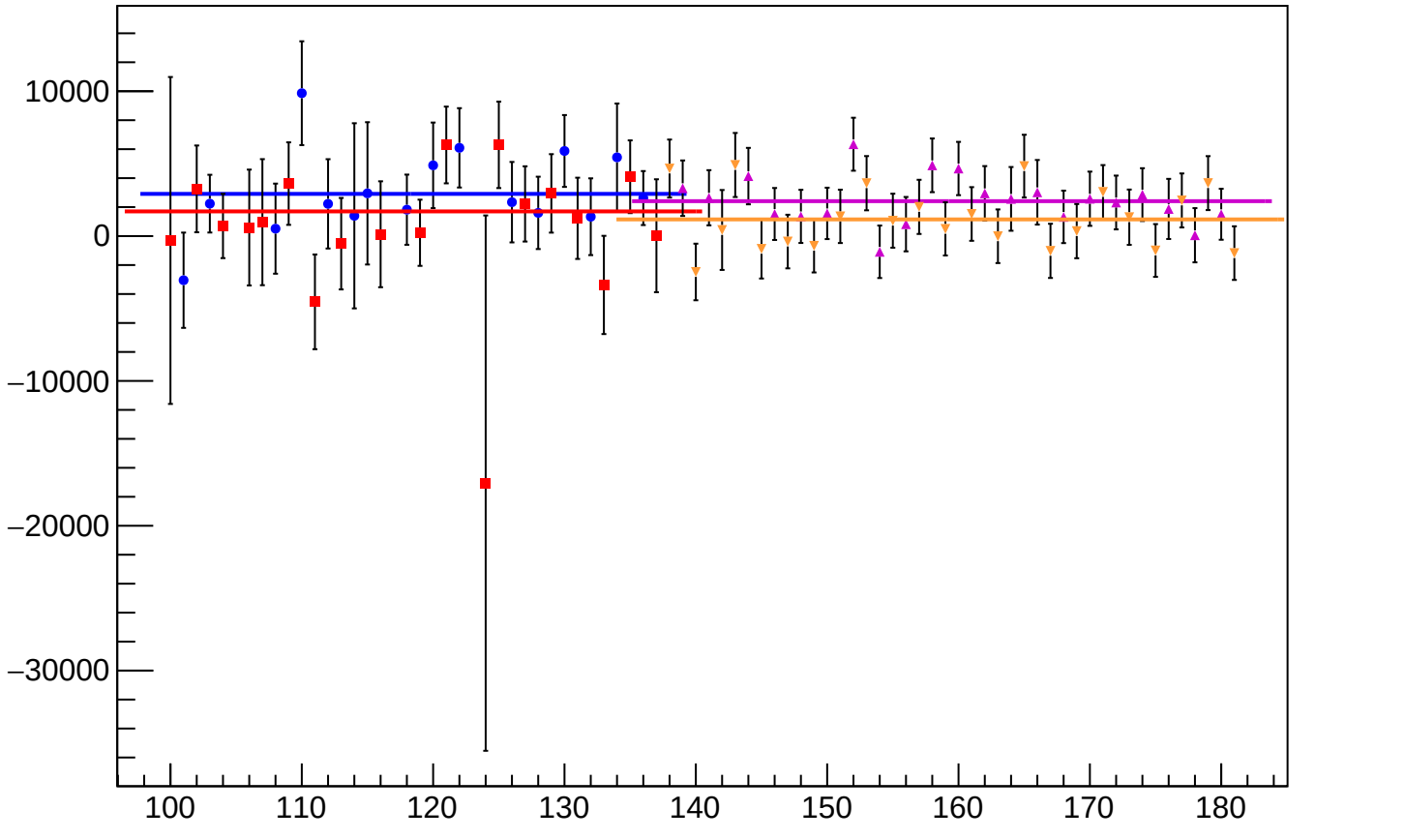
Left: 4757.311+/-0.577 $\chi^2$/NDF: 2405331.9/43

Right: 1812.790+/-0.469 $\chi^2$/NDF: 13296256.2/34

In: 3037.767+/-0.527 $\chi^2$/NDF:15423238.0/36

Out: 2937.549+/-0.503 $\chi^2$/NDF:15937447.1/41

All: 2985.316+/-0.364 $\chi^2$/NDF: 31379590.5/7




Right In: 2913.091+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 1150.783+/-400.761 $\chi^2$/NDF:25.4/22

Right Out: 1703.523+/-706.847 $\chi^2$/NDF: 15.8/18

Left In: 2410.489+/-410.876 $\chi^2$/NDF:16.7/20

Left: 1764.940+/-286.890 $\chi^2$/NDF: 46.9/43

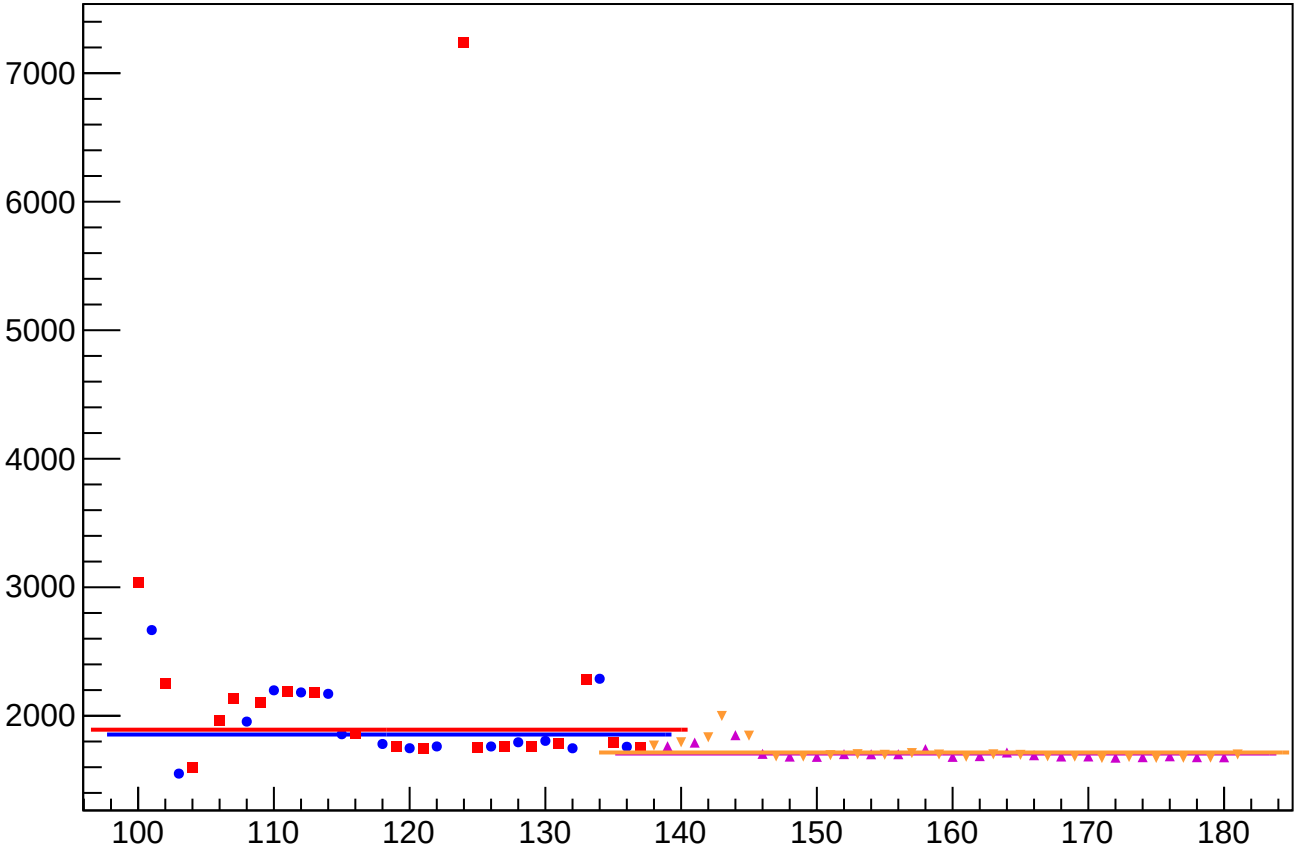
Right: 2318.475+/-495.597 $\chi^2$/NDF: 29.8/34

In: 2540.639+/-353.699 $\chi^2$/NDF:29.5/36

Out: 1285.242+/-348.625 $\chi^2$/NDF:41.7/41

All: 1903.873+/-248.290 $\chi^2$/NDF: 77.6/78

# cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.5/15

Left Out: 1714.512+/-0.283 $\chi^2$/NDF:58415.3/22

Right Out: 1891.927+/-0.499 $\chi^2$/NDF: 364292.2/18

Left In: 1706.209+/-0.291 $\chi^2$/NDF:21605.3/20

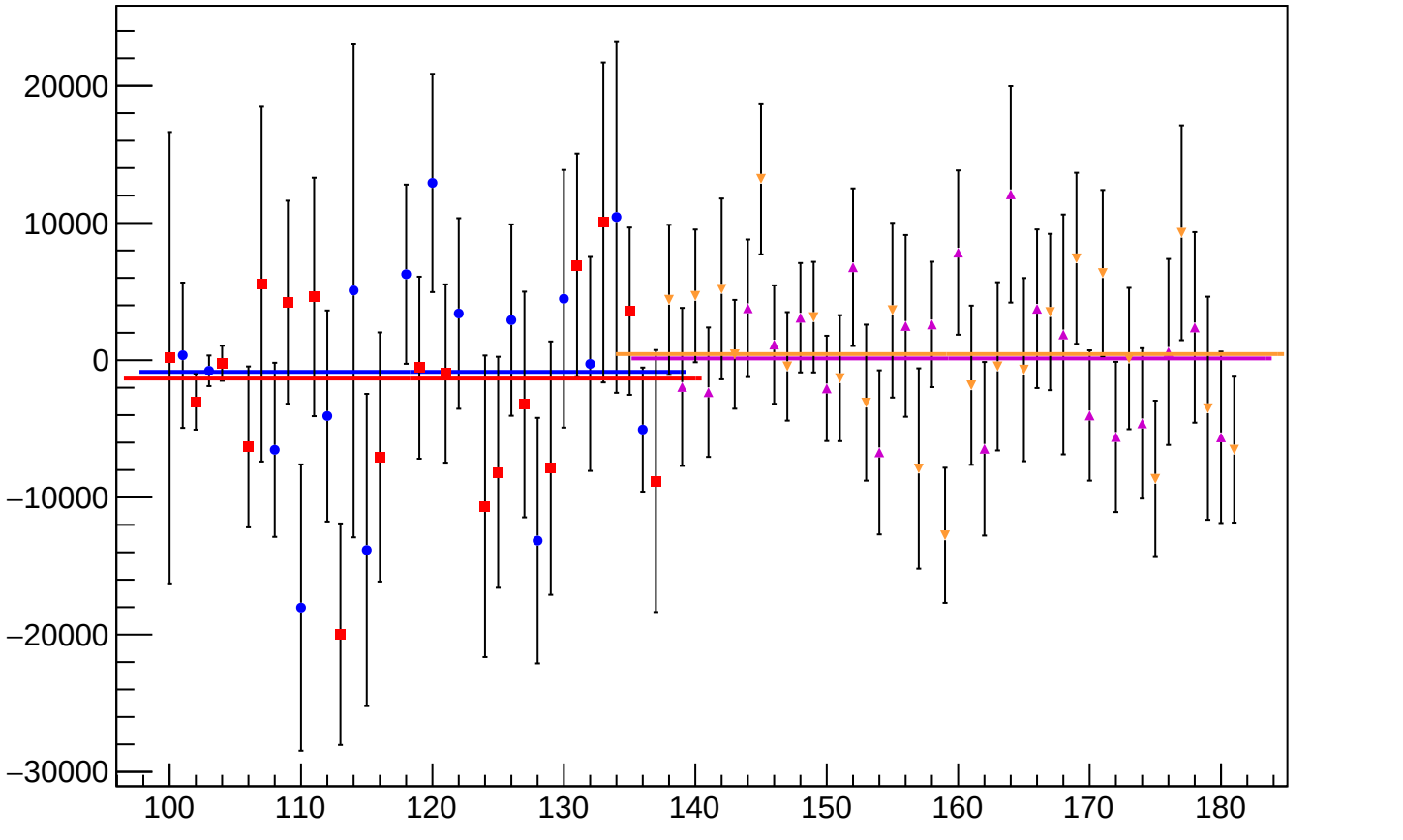
Left: 1710.464+/-0.203 $\chi^2$/NDF: 80439.2/43

Right: 1872.844+/-0.350 $\chi^2$/NDF: 630500.1/34

In: 1744.561+/-0.250 $\chi^2$/NDF:352220.6/36

Out: 1757.807+/-0.246 $\chi^2$/NDF:518357.4/41

All: 1751.283+/-0.176 $\chi^2$/NDF: 872001.5/78




Right In: -847.504+/-962.866 $\chi^2$/NDF: 13.9/15

Left Out: 450.623+/-1130.395 $\chi^2$/NDF:25.5/22

Right Out: -1331.371+/-948.163 $\chi^2$/NDF: 14.4/18

Left In: 130.140+/-1178.678 $\chi^2$/NDF:14.0/20

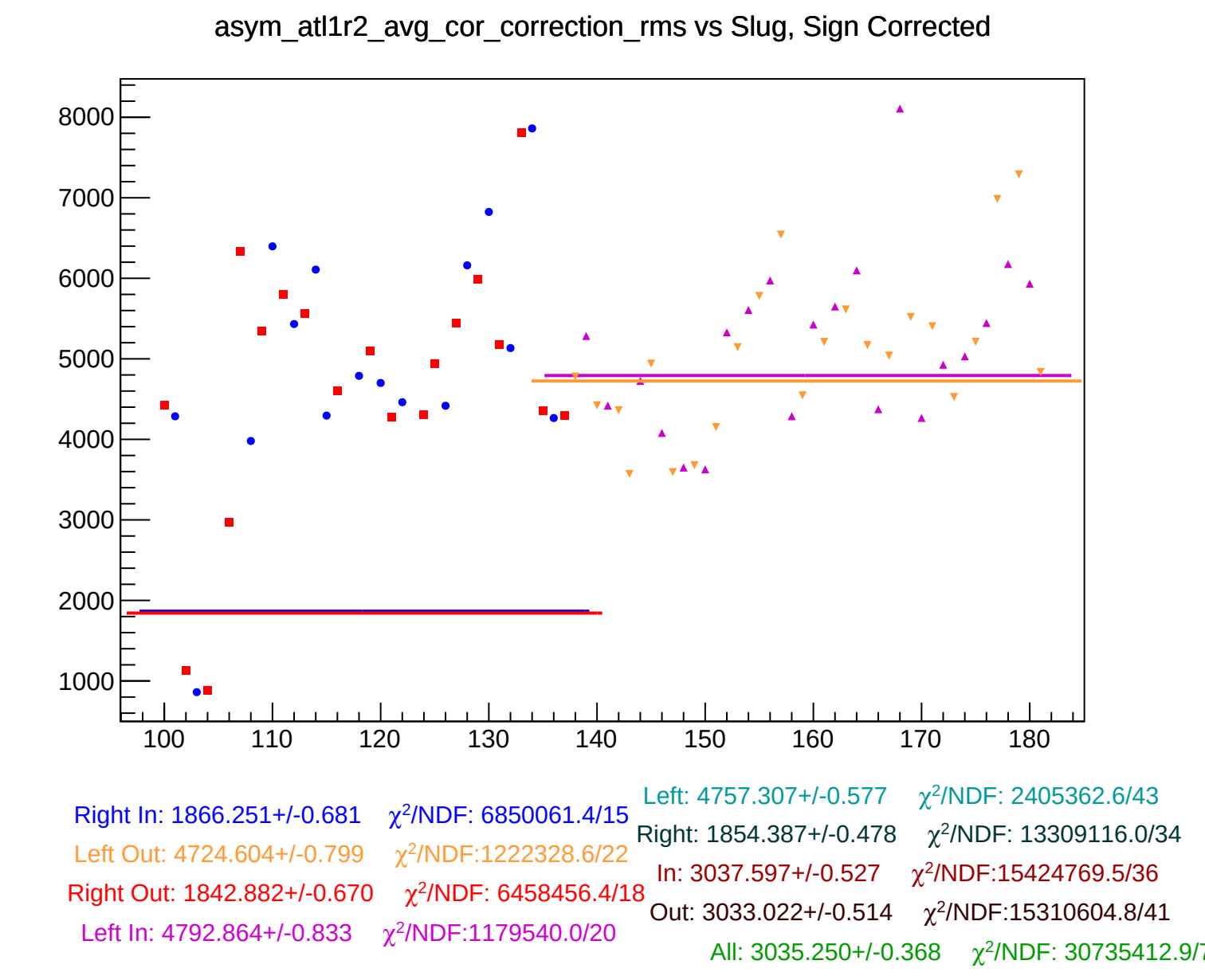
Left: 297.080+/-815.845 $\chi^2$/NDF: 39.5/43

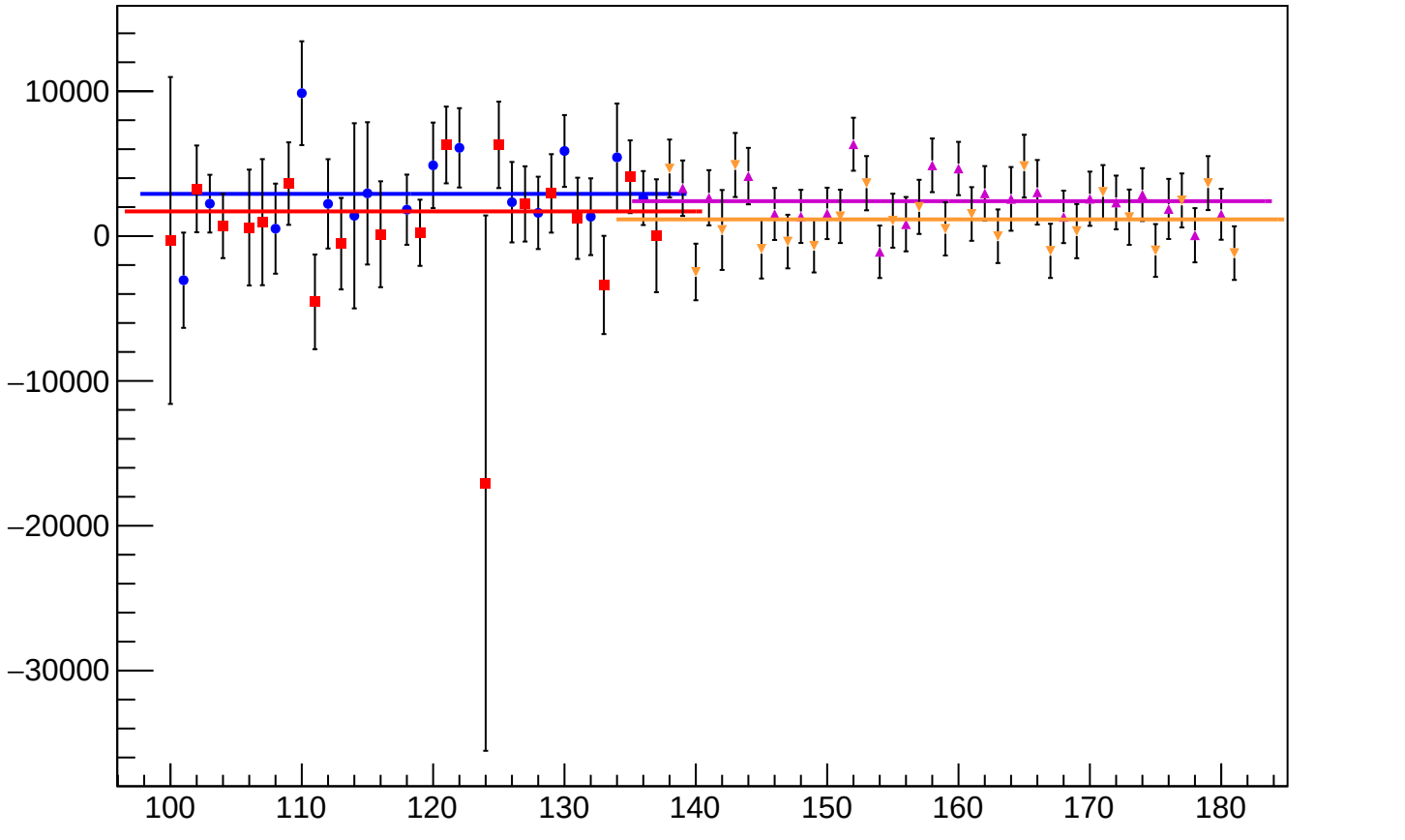
Right: -1093.160+/-675.591 $\chi^2$/NDF: 28.4/34

In: -456.212+/-745.684 $\chi^2$/NDF:28.3/36

Out: -595.414+/-726.446 $\chi^2$/NDF:41.3/41

All: -527.632+/-520.343 $\chi^2$/NDF: 69.6/78


asym_atl1r2_avg_cor_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
1000
100
110
120
130
140
150
160
170
180
Right In: 1866.251+/-0.681 χ²/NDF: 6850061.4/15
Left Out: 4724.604+/-0.799 χ²/NDF:1222328.6/22
Right Out: 1842.882+/-0.670 χ²/NDF: 6458456.4/18
Left In: 4792.864+/-0.833 χ²/NDF:1179540.0/20
Left: 4757.307+/-0.577 χ²/NDF: 2405362.6/43
Right: 1854.387+/-0.478 χ²/NDF: 13309116.0/34
In: 3037.597+/-0.527 χ²/NDF:15424769.5/36
Out: 3033.022+/-0.514 χ²/NDF:15310604.8/41
All: 3035.250+/-0.368 χ²/NDF: 30735412.9/7




Right In: 2913.091+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 1150.783+/-400.761 $\chi^2$/NDF:25.4/22

Right Out: 1703.523+/-706.847 $\chi^2$/NDF: 15.8/18

Left In: 2410.489+/-410.876 $\chi^2$/NDF:16.7/20

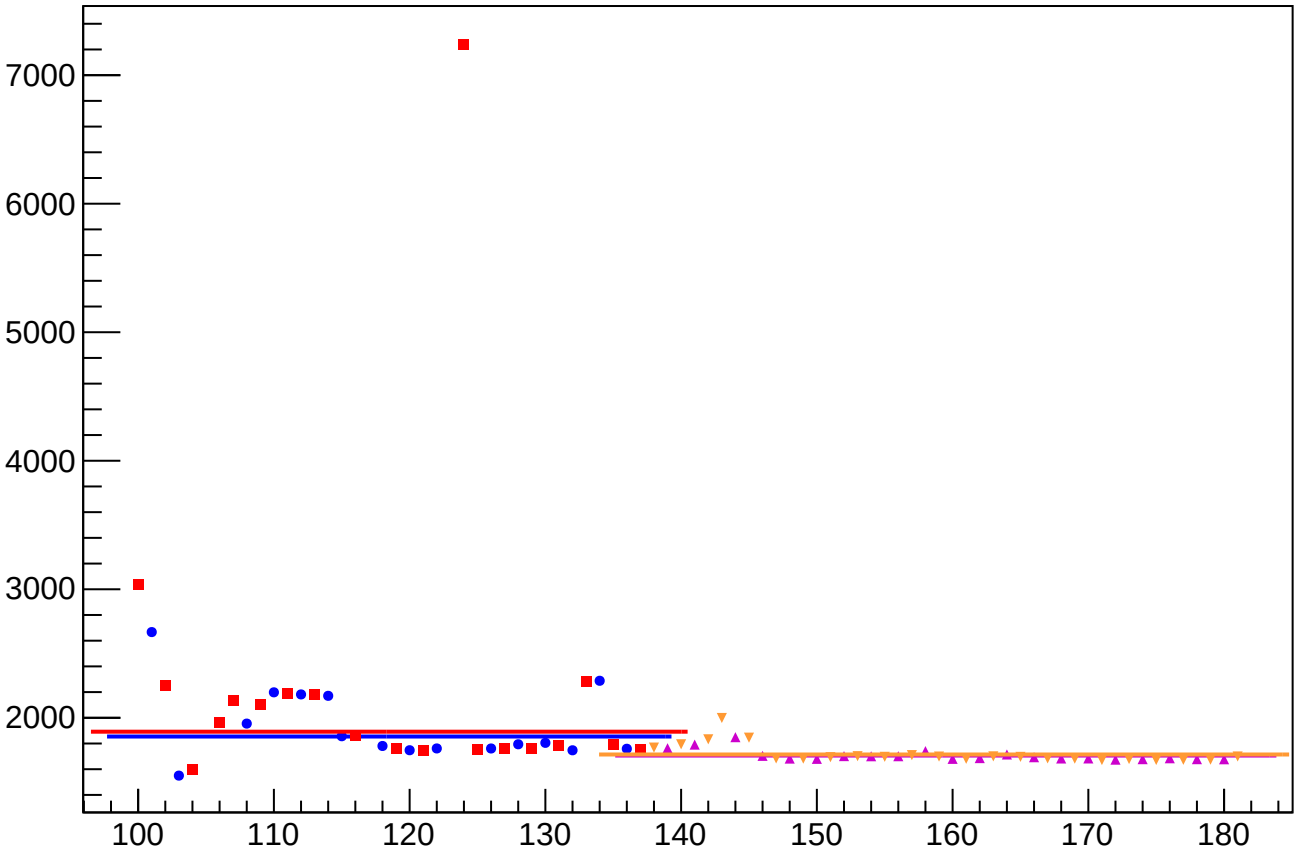
Left: 1764.940+/-286.890 $\chi^2$/NDF: 46.9/43

Right: 2318.475+/-495.597 $\chi^2$/NDF: 29.8/34

In: 2540.639+/-353.699 $\chi^2$/NDF:29.5/36

Out: 1285.242+/-348.625 $\chi^2$/NDF:41.7/41

All: 1903.873+/-248.290 $\chi^2$/NDF: 77.6/78




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.5/15

Left Out: 1714.512+/-0.283 $\chi^2$/NDF:58415.3/22

Right Out: 1891.927+/-0.499 $\chi^2$/NDF: 364292.2/18

Left In: 1706.209+/-0.291 $\chi^2$/NDF:21605.3/20

Left: 1710.464+/-0.203 $\chi^2$/NDF: 80439.2/43

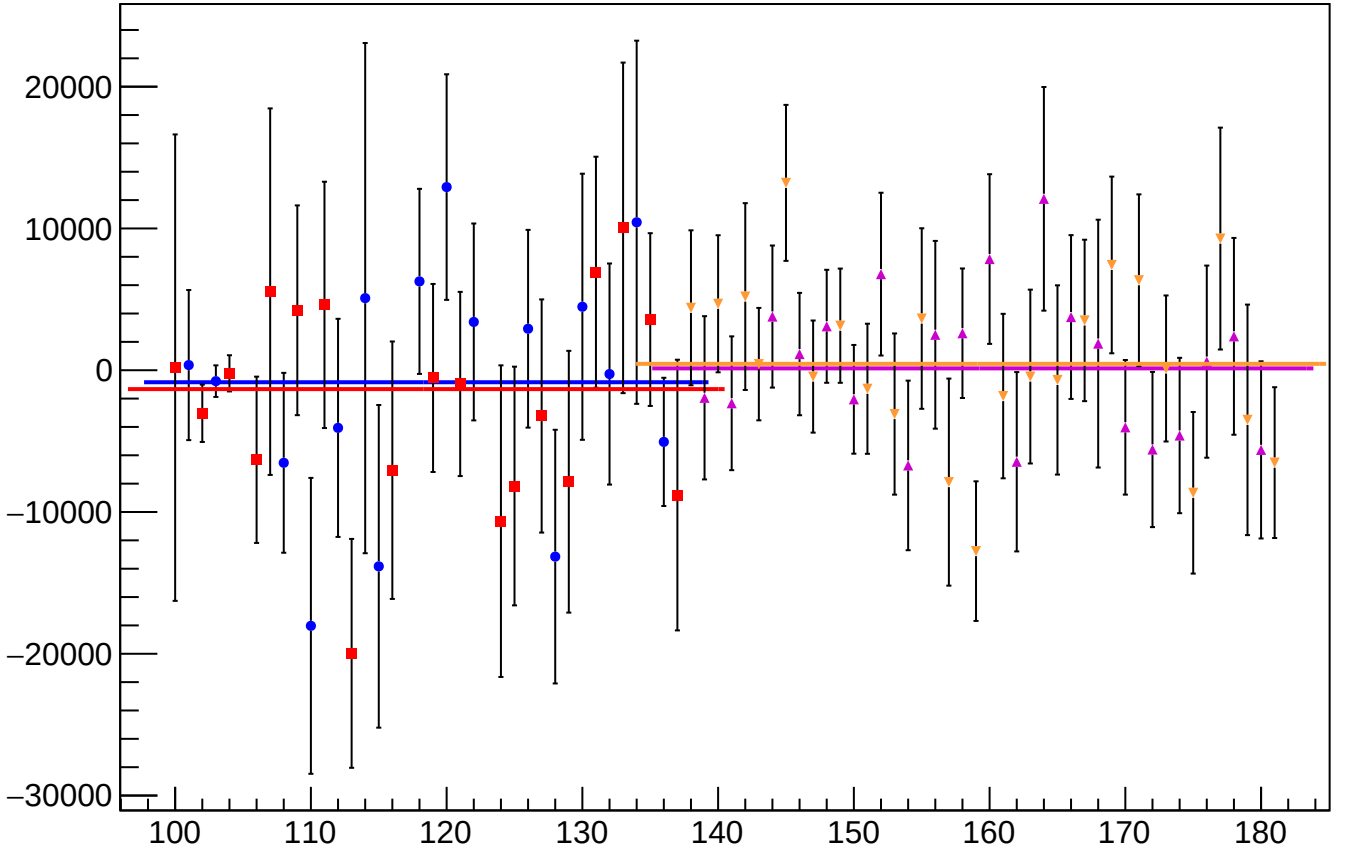
Right: 1872.844+/-0.350 $\chi^2$/NDF: 630500.1/34

In: 1744.561+/-0.250 $\chi^2$/NDF:352220.6/36

Out: 1757.807+/-0.246 $\chi^2$/NDF:518357.4/41

All: 1751.283+/-0.176 $\chi^2$/NDF: 872001.5/78

asym_atl1r2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -847.504+/-962.866 $\chi^2$/NDF: 13.9/15

Left Out: 450.623+/-1130.395 $\chi^2$/NDF:25.5/22

Right Out: -1331.371+/-948.163 $\chi^2$/NDF: 14.4/18

Left In: 130.140+/-1178.678 $\chi^2$/NDF:14.0/20

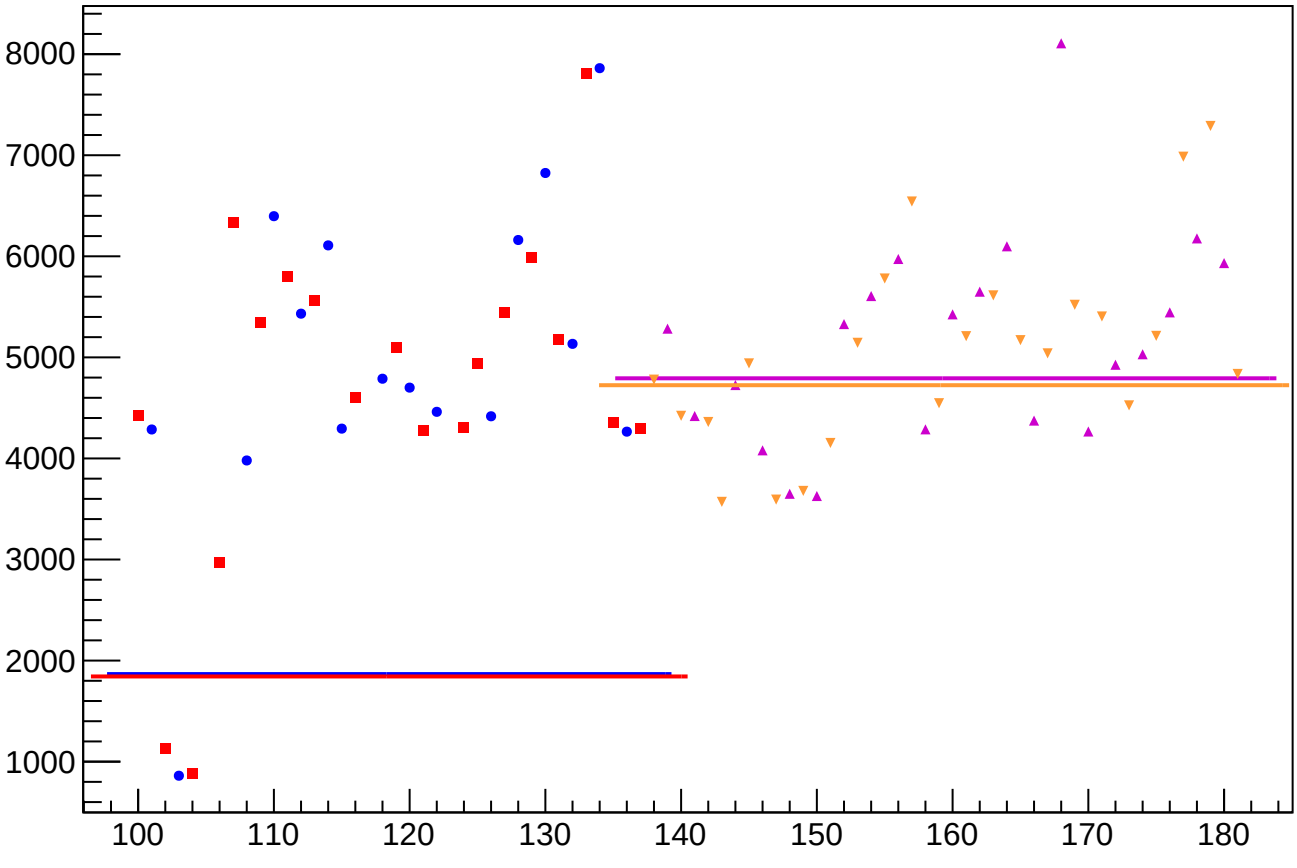
Left: 297.080+/-815.845 $\chi^2$/NDF: 39.5/43

Right: -1093.160+/-675.591 $\chi^2$/NDF: 28.4/34

In: -456.212+/-745.684 $\chi^2$/NDF:28.3/36

Out: -595.414+/-726.446 $\chi^2$/NDF:41.3/41

All: -527.632+/-520.343 $\chi^2$/NDF: 69.6/78




Right In: 1866.251+/-0.681 $\chi^2$/NDF: 6850061.4/15

Left Out: 4724.604+/-0.799 $\chi^2$/NDF:1222328.6/22

Right Out: 1842.882+/-0.670 $\chi^2$/NDF: 6458456.4/18

Left In: 4792.864+/-0.833 $\chi^2$/NDF:1179540.0/20

Left: 4757.307+/-0.577 $\chi^2$/NDF: 2405362.6/43

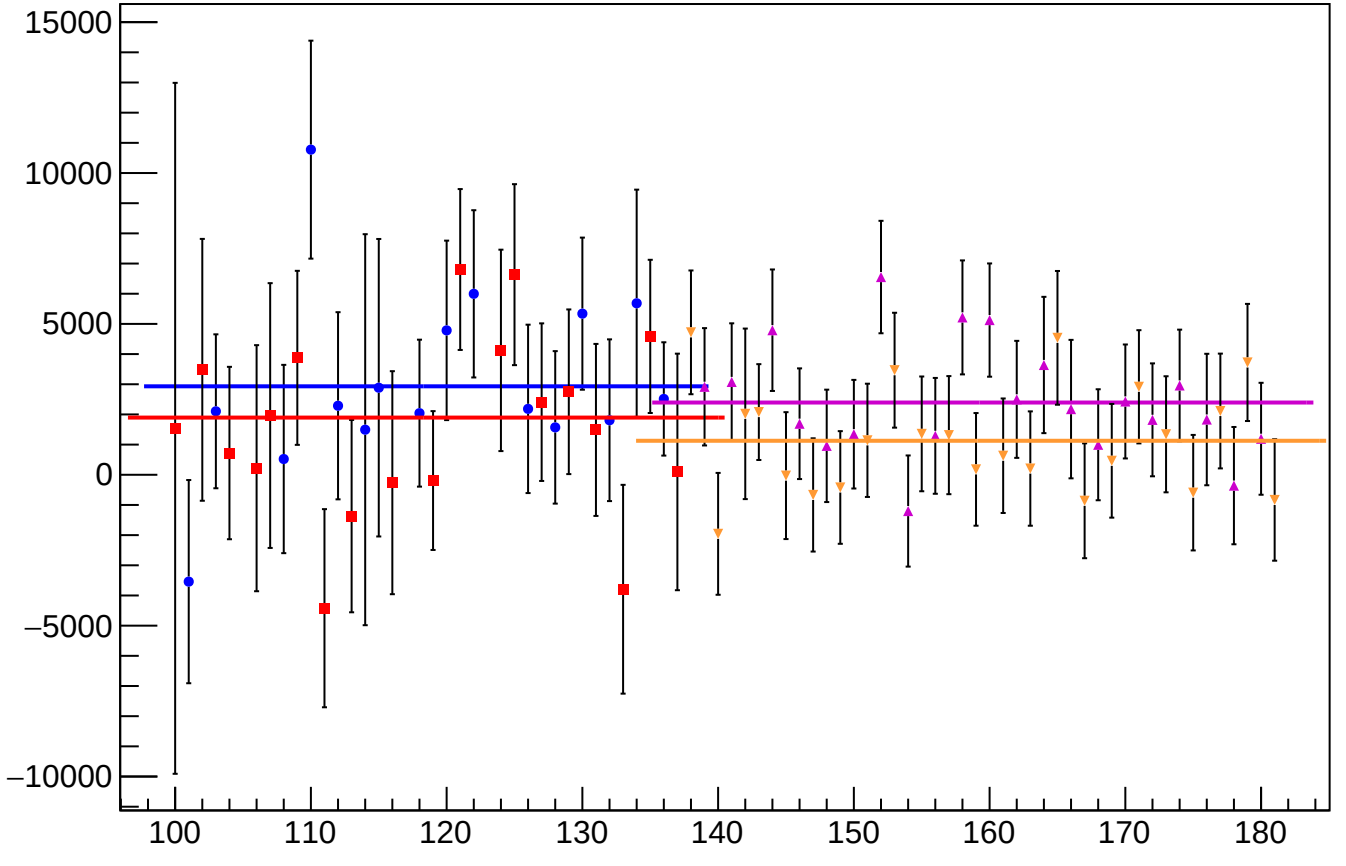
Right: 1854.387+/-0.478 $\chi^2$/NDF: 13309116.0/34

In: 3037.597+/-0.527 $\chi^2$/NDF:15424769.5/36

Out: 3033.022+/-0.514 $\chi^2$/NDF:15310604.8/41

All: 3035.250+/-0.368 $\chi^2$/NDF: 30735412.9/7

# dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected




Right In: 2931.691+/-718.305 $\chi^2$/NDF: 13.0/15

Left Out: 1127.071+/-404.218 $\chi^2$/NDF:18.2/22

Right Out: 1895.503+/-721.954 $\chi^2$/NDF: 17.4/18

Left In: 2394.244+/-420.291 $\chi^2$/NDF:19.7/20

Left: 1735.965+/-291.342 $\chi^2$/NDF: 42.6/43

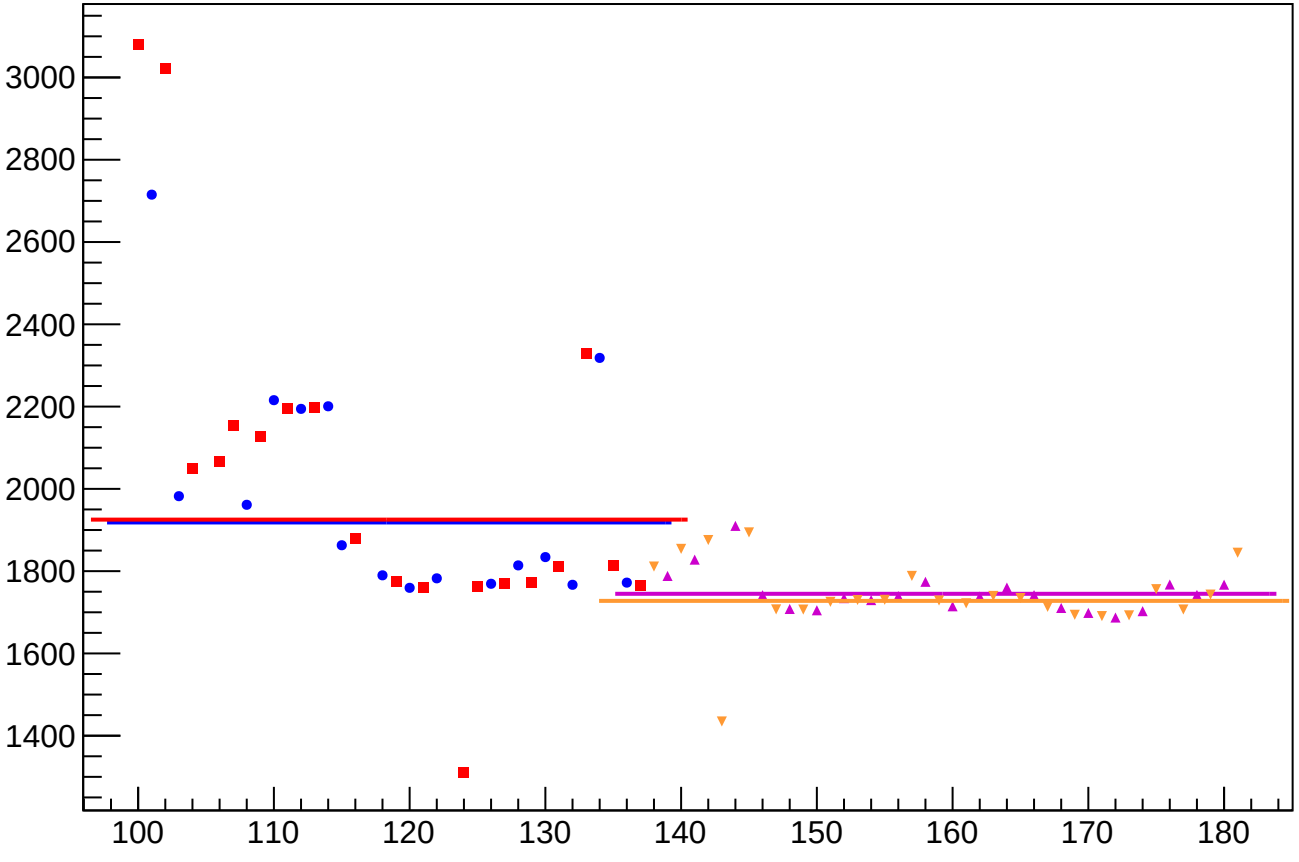
Right: 2416.221+/-509.204 $\chi^2$/NDF: 31.4/34

In: 2531.316+/-362.757 $\chi^2$/NDF:33.1/36

Out: 1310.468+/-352.698 $\chi^2$/NDF:36.4/41

All: 1903.732+/-252.877 $\chi^2$/NDF: 75.4/78

# dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1918.367+/-0.508 $\chi^2$/NDF: 215592.7/15

Left Out: 1727.754+/-0.286 $\chi^2$/NDF:109649.2/22

Right Out: 1925.260+/-0.510 $\chi^2$/NDF: 339095.4/18

Left In: 1744.946+/-0.297 $\chi^2$/NDF:26576.1/20

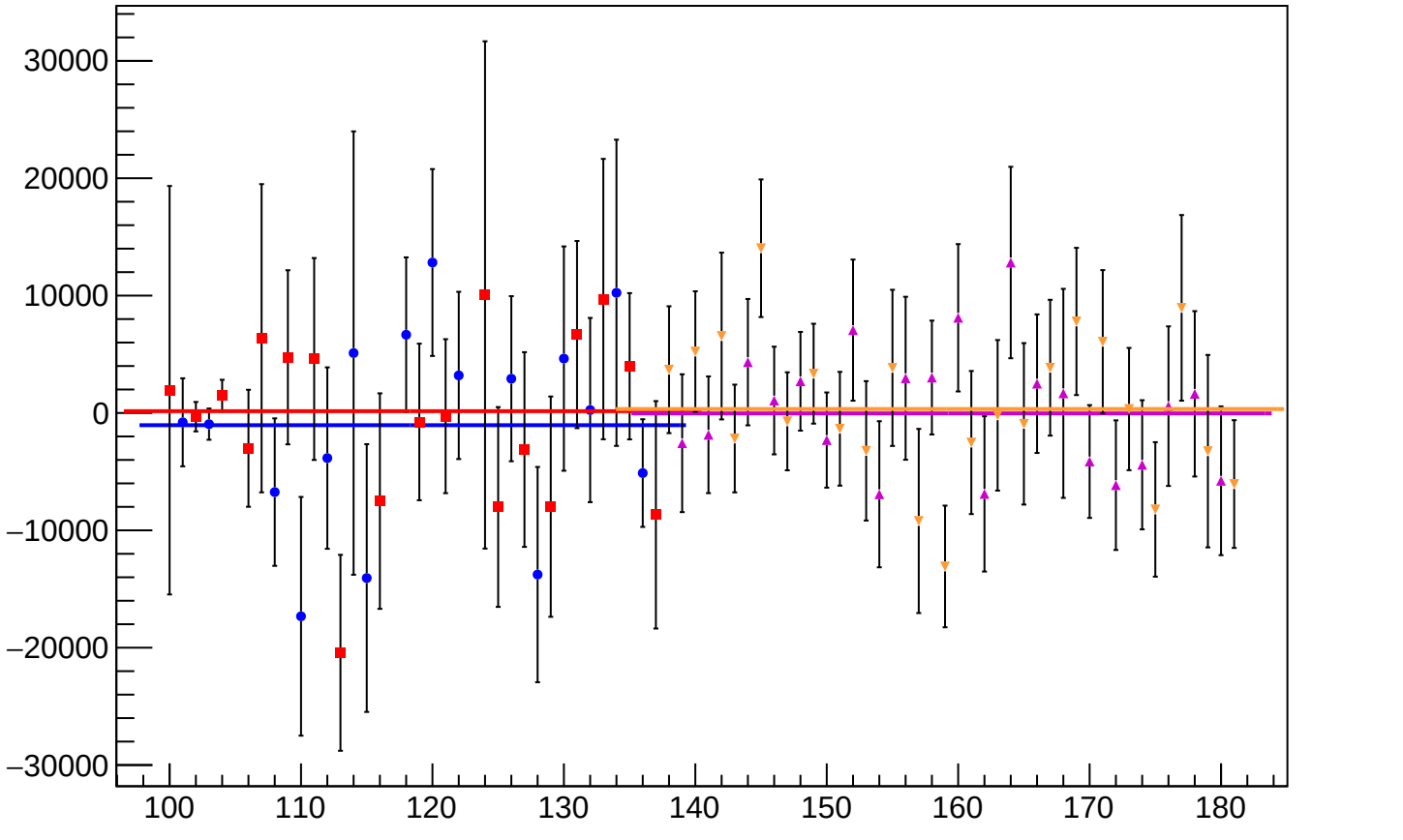
Left: 1736.015+/-0.206 $\chi^2$/NDF: 137963.6/43

Right: 1921.799+/-0.360 $\chi^2$/NDF: 554779.7/34

In: 1789.176+/-0.257 $\chi^2$/NDF:329014.7/36

Out: 1774.951+/-0.249 $\chi^2$/NDF:562845.3/41

All: 1781.862+/-0.179 $\chi^2$/NDF: 893441.2/78




Right In: -1041.908+/-1072.406 $\chi^2$/NDF: 13.8/15

Left Out: 338.064+/-1183.099 $\chi^2$/NDF:25.2/22

Right Out: 153.619+/-835.656 $\chi^2$/NDF: 13.7/18

Left In: -34.360+/-1225.552 $\chi^2$/NDF:13.9/20

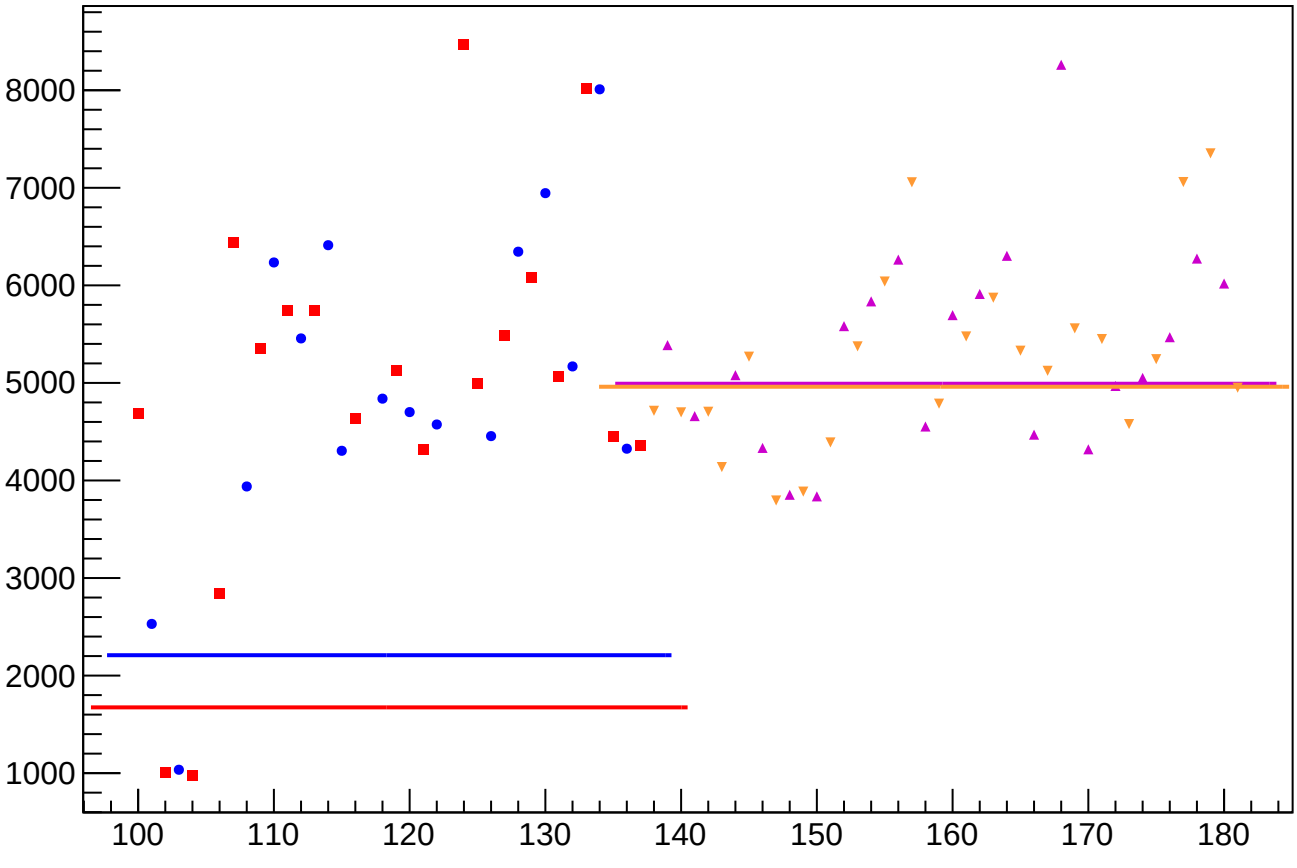
Left: 158.414+/-851.190 $\chi^2$/NDF: 39.2/43

Right: -298.053+/-659.161 $\chi^2$/NDF: 28.3/34

In: -604.985+/-807.052 $\chi^2$/NDF:28.1/36

Out: 215.011+/-682.560 $\chi^2$/NDF:39.0/41

All: -126.933+/-521.162 $\chi^2$/NDF: 67.7/78




Right In: 2208.912+/-0.758 $\chi^2$/NDF: 5499011.4/15

Left Out: 4960.762+/-0.837 $\chi^2$/NDF:1020215.4/22

Right Out: 1674.162+/-0.591 $\chi^2$/NDF: 6853212.9/18

Left In: 4991.568+/-0.867 $\chi^2$/NDF:1076417.6/20

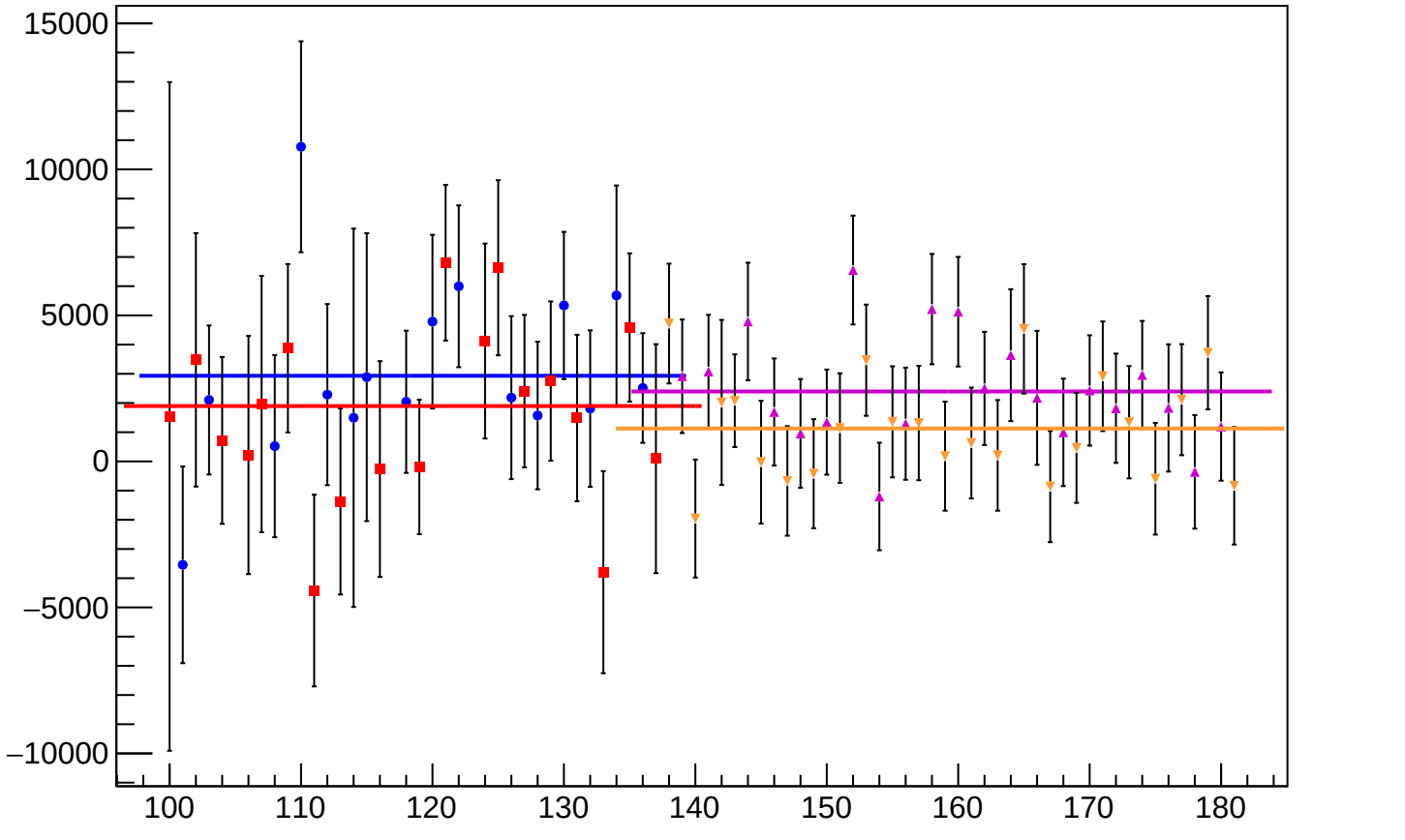
Left: 4975.622+/-0.602 $\chi^2$/NDF: 2097287.1/43

Right: 1876.192+/-0.466 $\chi^2$/NDF: 12661639.3/34

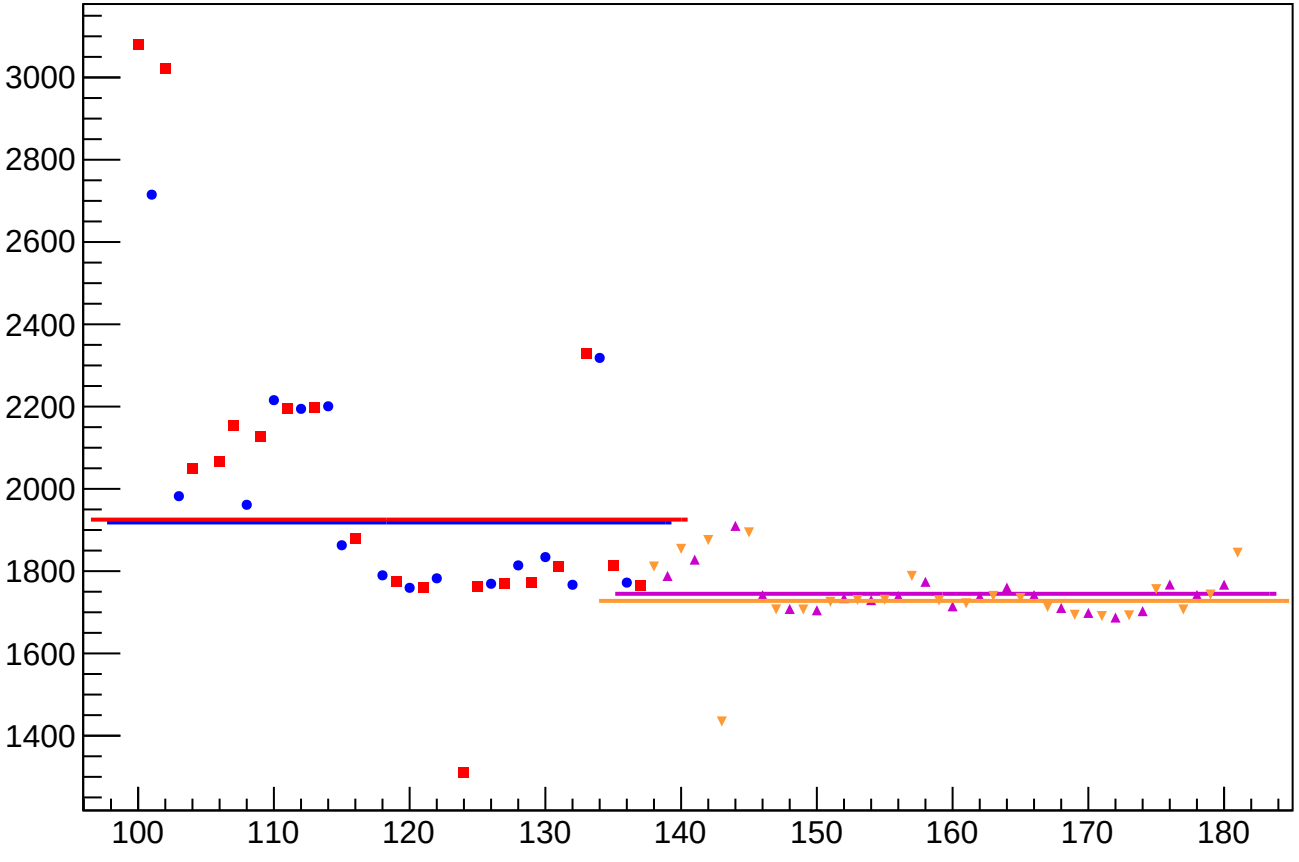
In: 3415.612+/-0.571 $\chi^2$/NDF:12414855.0/36

Out: 2768.086+/-0.483 $\chi^2$/NDF:18170399.3/41

All: 3038.108+/-0.369 $\chi^2$/NDF: 31335846.7/7


eigen_dit_asym_atl1r2_avg_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
160
170
180
Right In: 2931.693+/-718.305 χ²/NDF: 13.0/15
Left Out: 1127.065+/-404.218 χ²/NDF:18.2/22
Right Out: 1895.508+/-721.953 χ²/NDF: 17.4/18
Left In: 2394.245+/-420.291 χ²/NDF:19.7/20
Left: 1735.962+/-291.342 χ²/NDF: 42.6/43
Right: 2416.225+/-509.203 χ²/NDF: 31.4/34
In: 2531.317+/-362.757 χ²/NDF:33.1/36
Out: 1310.465+/-352.698 χ²/NDF:36.4/41
All: 1903.731+/-252.877 χ²/NDF: 75.4/78

# eigen_dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1918.367+/-0.508 $\chi^2$/NDF: 215592.7/15

Left Out: 1727.755+/-0.286 $\chi^2$/NDF:109648.2/22

Right Out: 1925.259+/-0.510 $\chi^2$/NDF: 339094.4/18

Left In: 1744.946+/-0.297 $\chi^2$/NDF:26576.1/20

Left: 1736.016+/-0.206 $\chi^2$/NDF: 137962.6/43

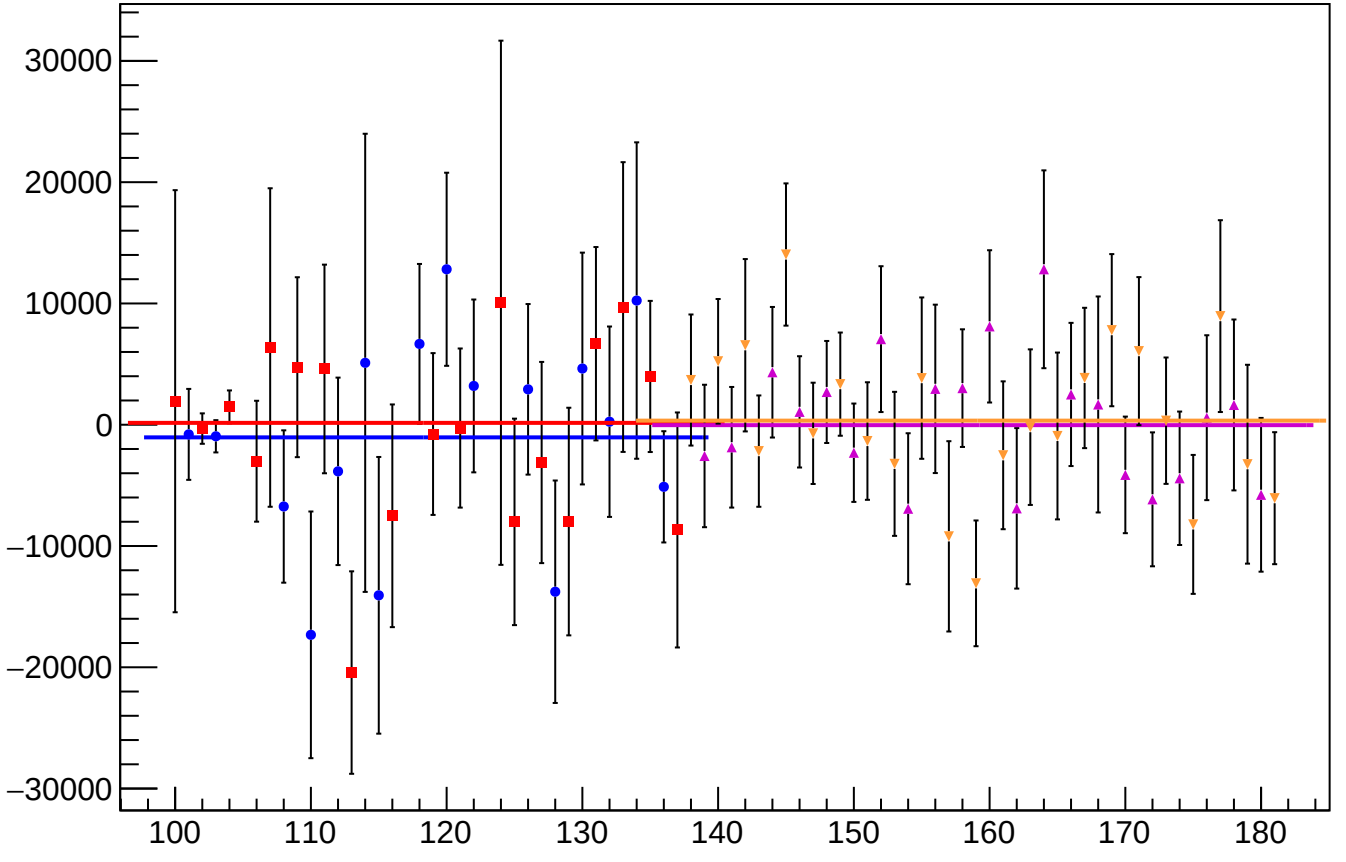
Right: 1921.798+/-0.360 $\chi^2$/NDF: 554778.8/34

In: 1789.176+/-0.257 $\chi^2$/NDF:329013.4/36

Out: 1774.951+/-0.249 $\chi^2$/NDF:562841.7/41

All: 1781.862+/-0.179 $\chi^2$/NDF: 893436.3/78

asym_atl1r2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1041.906+/-1072.405 $\chi^2$/NDF: 13.8/15

Left Out: 338.062+/-1183.101 $\chi^2$/NDF:25.2/22

Right Out: 153.614+/-835.655 $\chi^2$/NDF: 13.7/18

Left In: -34.362+/-1225.554 $\chi^2$/NDF:13.9/20

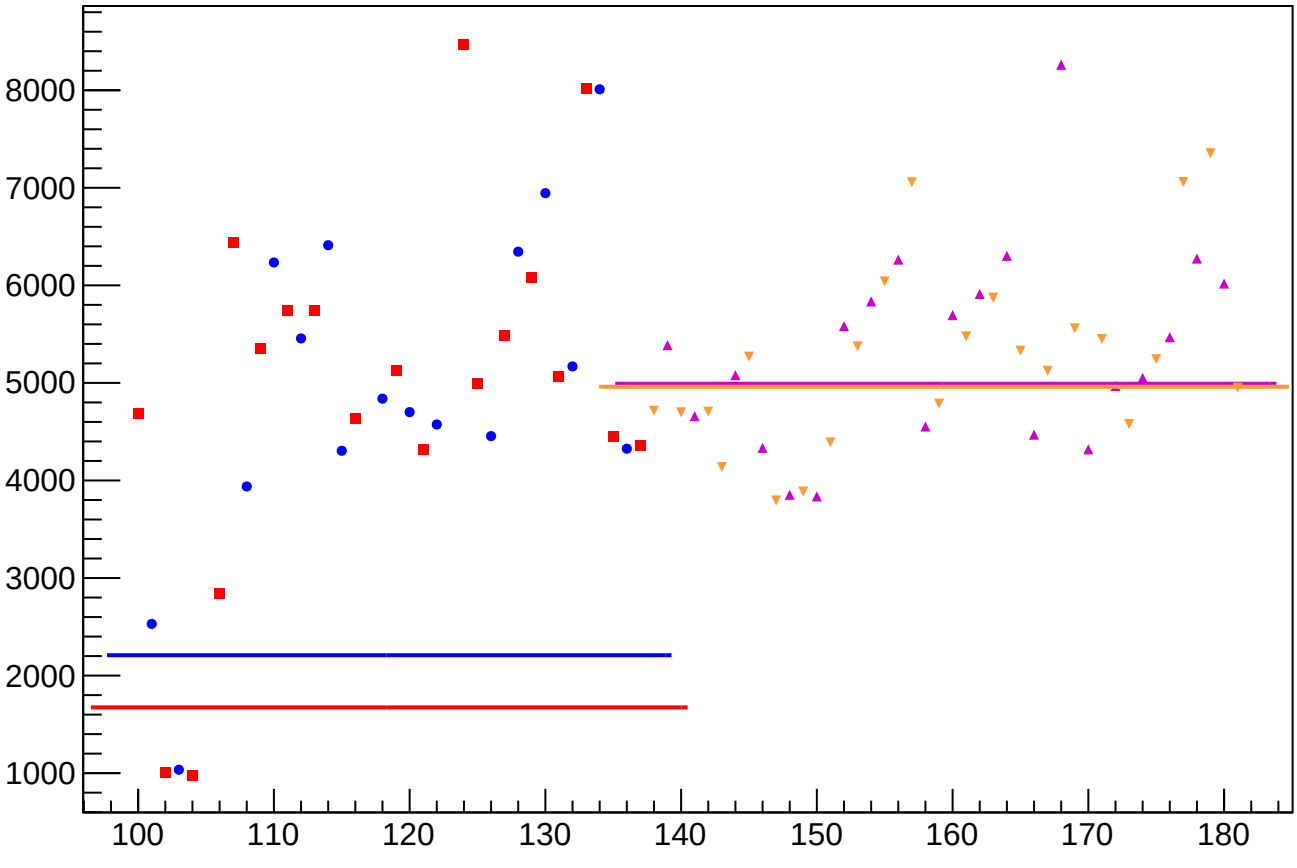
Left: 158.412+/-851.191 $\chi^2$/NDF: 39.2/43

Right: -298.056+/-659.161 $\chi^2$/NDF: 28.3/34

In: -604.985+/-807.052 $\chi^2$/NDF:28.1/36

Out: 215.006+/-682.560 $\chi^2$/NDF:39.0/41

All: -126.935+/-521.162 $\chi^2$/NDF: 67.7/78




Right In: 2208.911+/-0.758 $\chi^2$/NDF: 5499004.2/15

Left Out: 4960.770+/-0.837 $\chi^2$/NDF:1020216.6/22

Right Out: 1674.162+/-0.591 $\chi^2$/NDF: 6853204.8/18

Left In: 4991.576+/-0.867 $\chi^2$/NDF:1076420.1/20

Left: 4975.631+/-0.602 $\chi^2$/NDF: 2097290.9/43

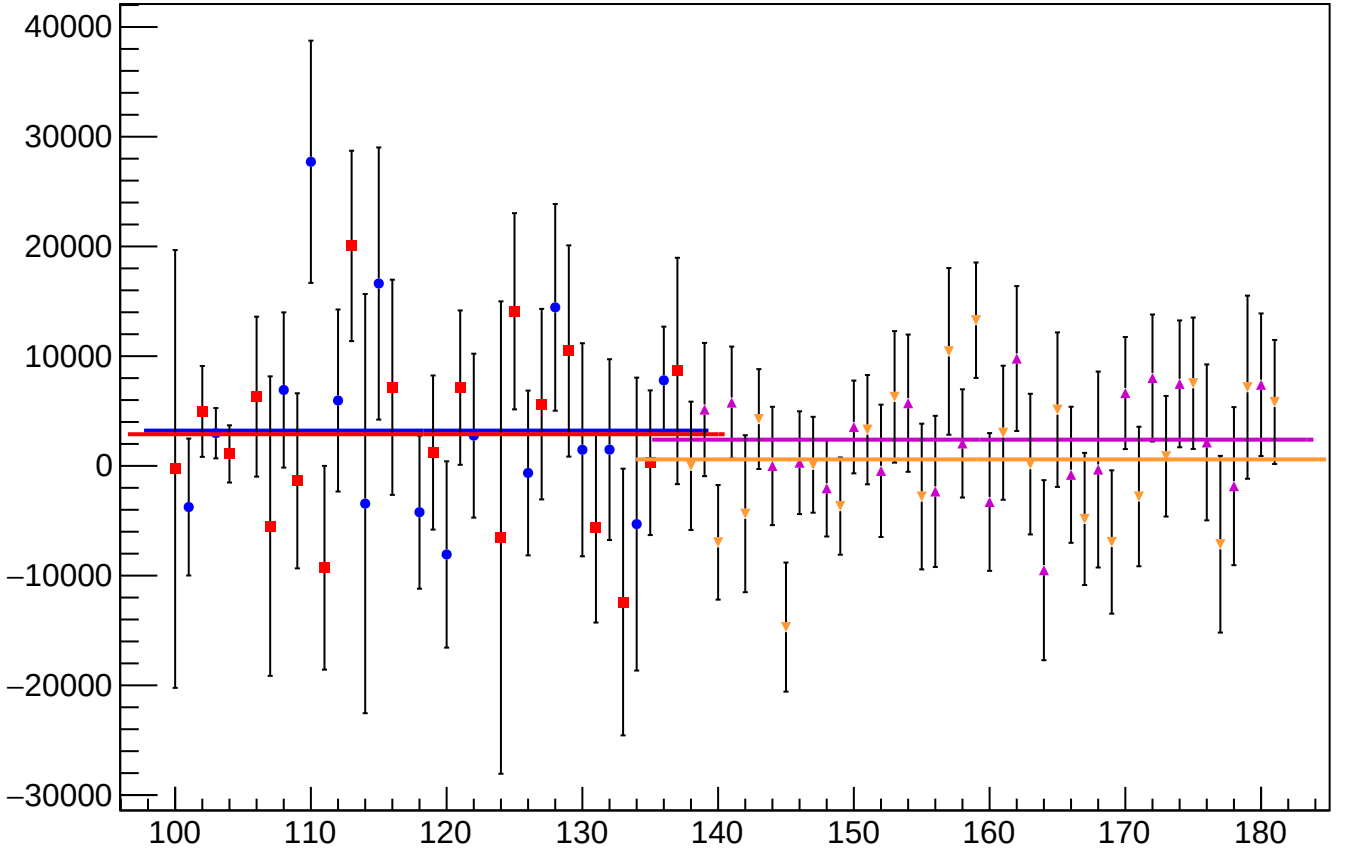
Right: 1876.191+/-0.466 $\chi^2$/NDF: 12661624.0/34

In: 3415.611+/-0.571 $\chi^2$/NDF:12414880.7/36

Out: 2768.085+/-0.483 $\chi^2$/NDF:18170426.9/41

All: 3038.108+/-0.369 $\chi^2$/NDF: 31335901.0/7

# asym_atl1r2_avg_mean vs Slug, Sign Corrected




Right In: 3215.695+/-1539.262 $\chi^2$/NDF: 13.8/15

Left Out: 592.633+/-1213.282 $\chi^2$/NDF:26.6/22

Right Out: 2883.411+/-1552.120 $\chi^2$/NDF: 13.4/18

Left In: 2391.029+/-1258.646 $\chi^2$/NDF:11.0/20

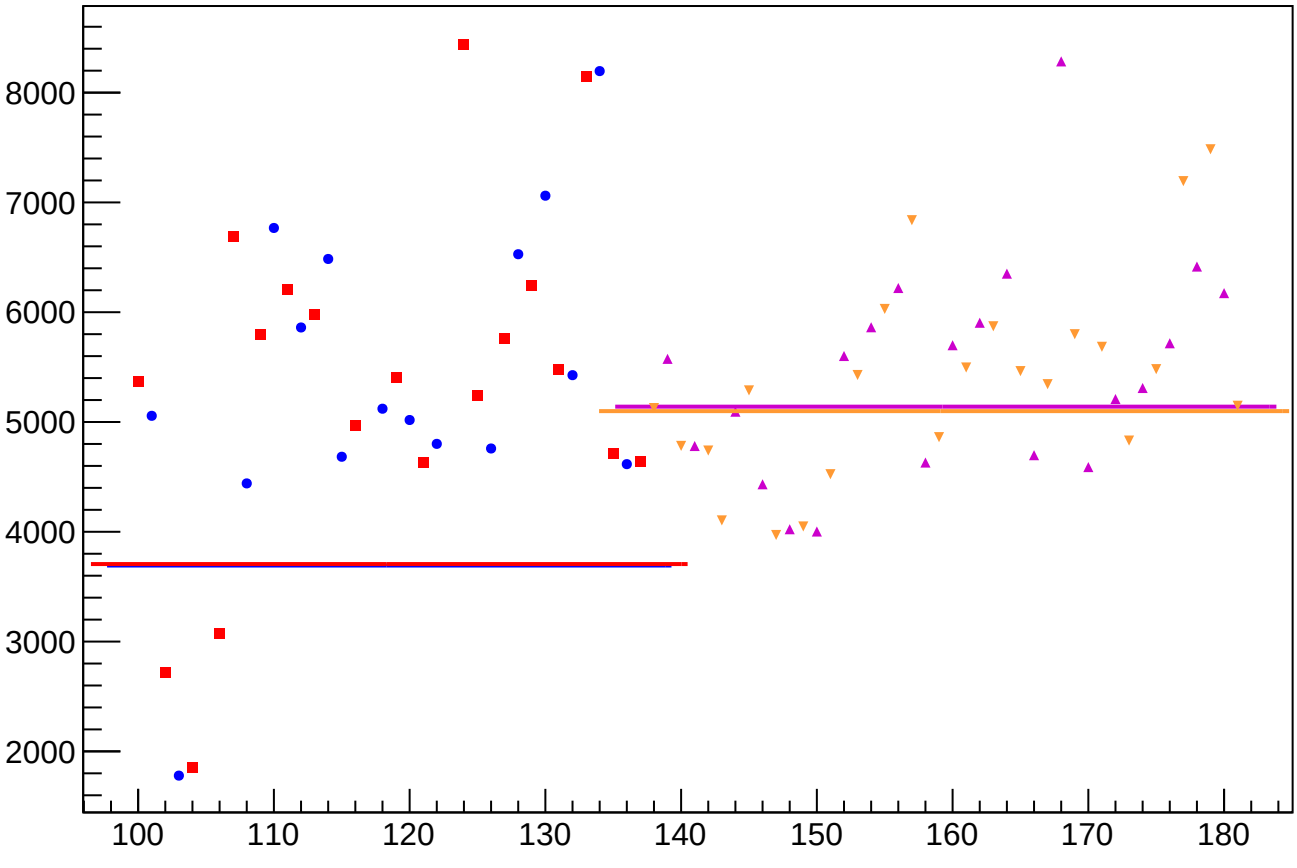
Left: 1458.838+/-873.517 $\chi^2$/NDF: 38.7/43

Right: 3050.935+/-1092.940 $\chi^2$/NDF: 27.2/34

In: 2721.476+/-974.371 $\chi^2$/NDF:25.0/36

Out: 1461.490+/-955.890 $\chi^2$/NDF:41.4/41

All: 2079.420+/-682.356 $\chi^2$/NDF: 67.2/78




Right In: 3692.815+/-1.088 $\chi^2$/NDF: 2885658.0/15

Left Out: 5099.020+/-0.858 $\chi^2$/NDF:934596.7/22

Right Out: 3706.081+/-1.087 $\chi^2$/NDF: 2684528.0/18

Left In: 5139.750+/-0.890 $\chi^2$/NDF:945223.2/20

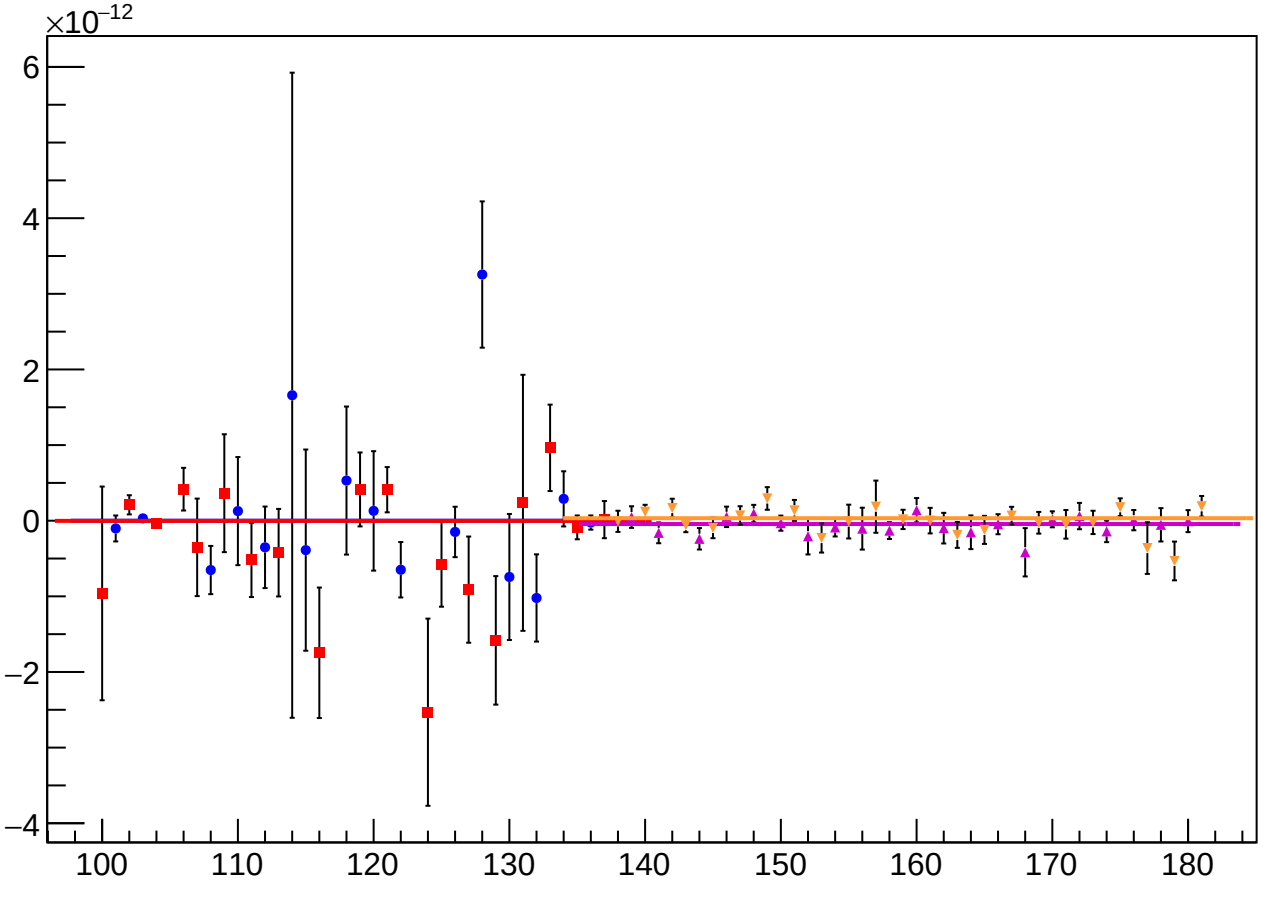
Left: 5118.638+/-0.618 $\chi^2$/NDF: 1880905.4/43

Right: 3699.460+/-0.769 $\chi^2$/NDF: 5570260.4/34

In: 4559.958+/-0.689 $\chi^2$/NDF:4889999.8/36

Out: 4564.105+/-0.673 $\chi^2$/NDF:4631460.0/41

All: 4562.079+/-0.482 $\chi^2$/NDF: 9521478.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:10.6/20

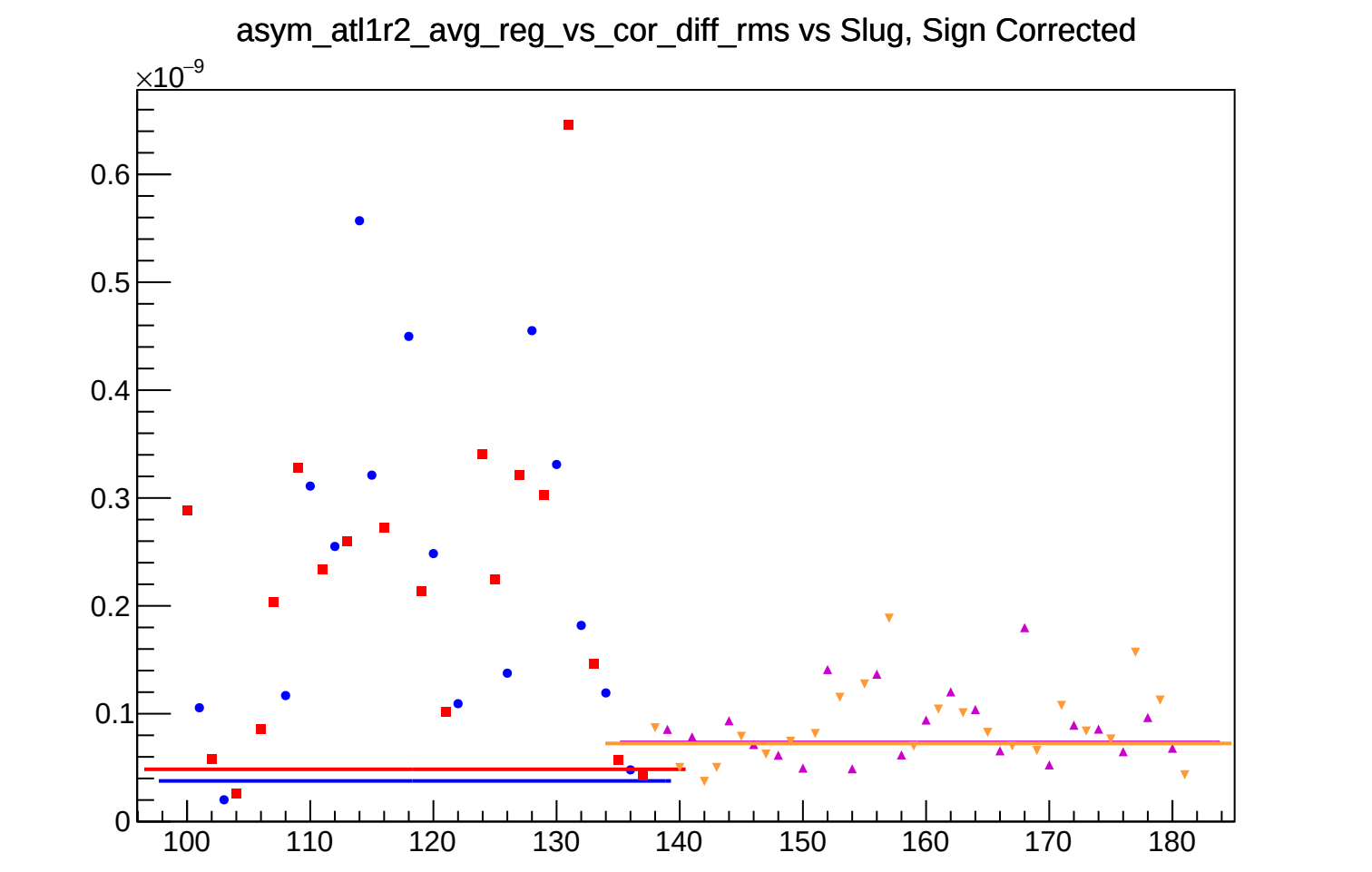
Left: -0.000+/-0.000 $\chi^2$/NDF: 35.5/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 53.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:36.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:50.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 89.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3140697.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1372781.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2895431.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1108137.2/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 2481872.6/43

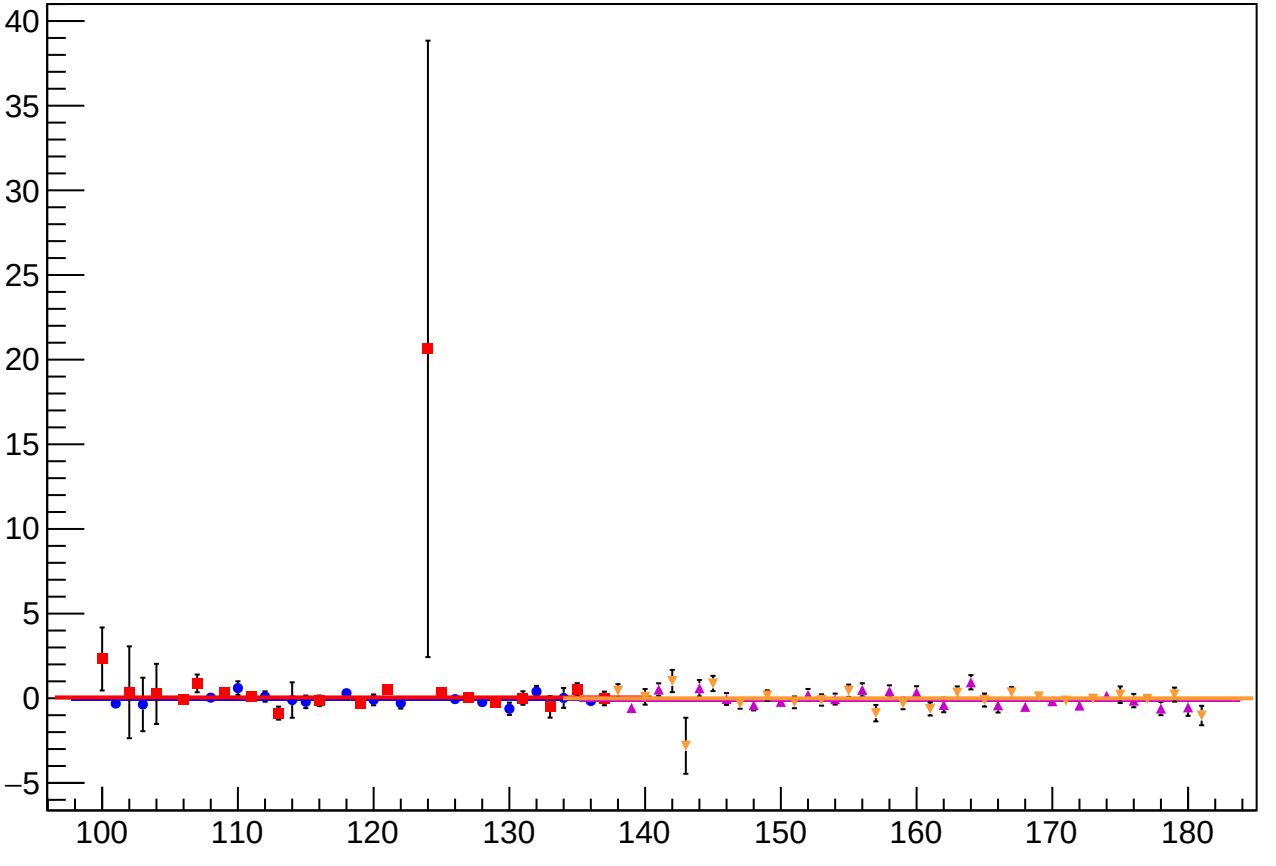
Right: 0.000+/-0.000 $\chi^2$/NDF: 6105820.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:5351513.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4664539.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10099599.4/78

asym_atl1r2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.041+/-0.078 $\chi^2$/NDF: 11.7/15

Left Out: -0.003+/-0.072 $\chi^2$/NDF:26.7/22

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.100+/-0.072 $\chi^2$/NDF:30.4/20

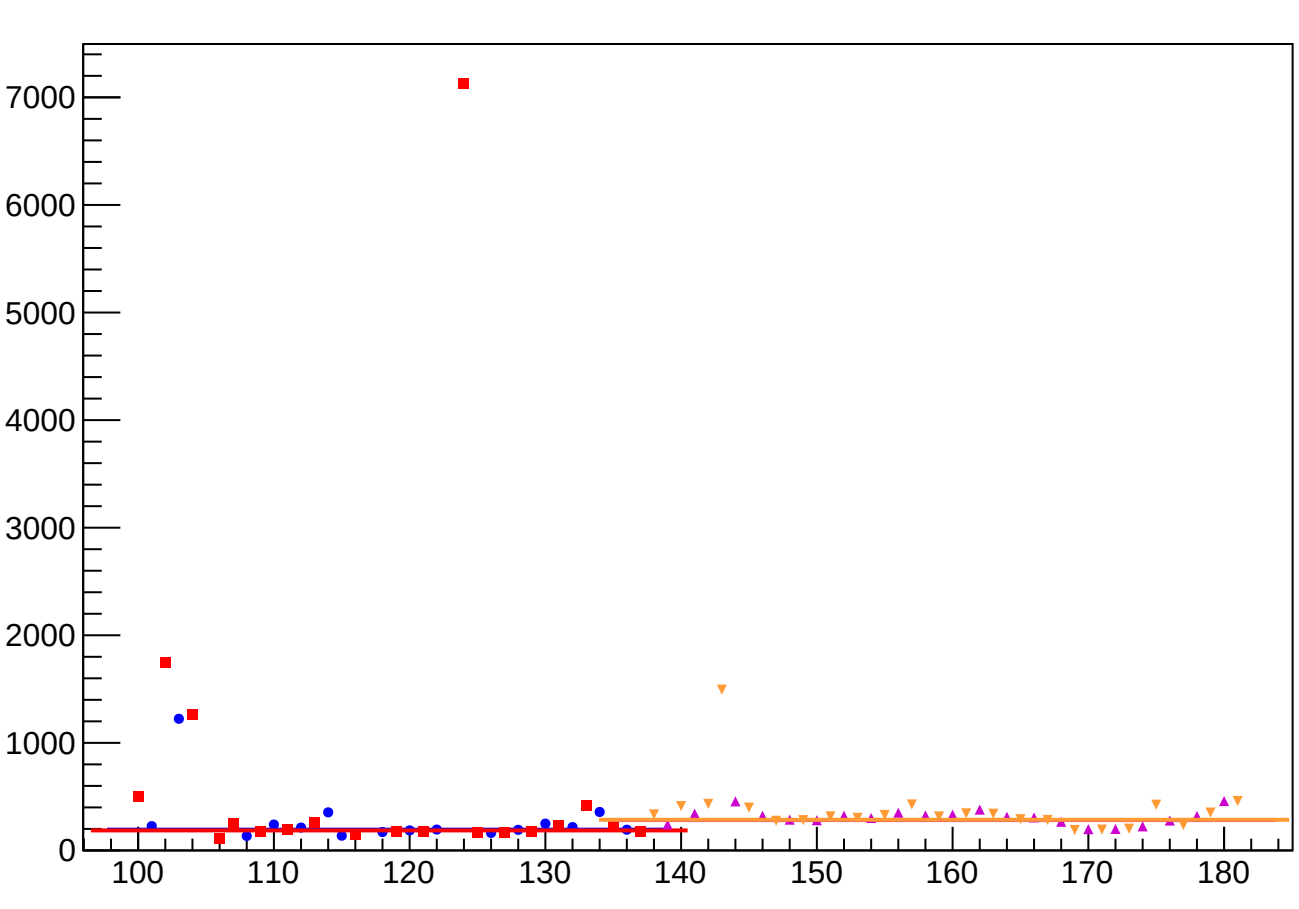
Left: -0.051+/-0.051 $\chi^2$/NDF: 58.0/43

Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.073+/-0.053 $\chi^2$/NDF:42.4/36

Out: 0.021+/-0.053 $\chi^2$/NDF:50.0/41

All: -0.026+/-0.037 $\chi^2$/NDF: 94.0/78




Right In: 193.248+/-0.055 $\chi^2$/NDF: 1408397.0/15

Left Out: 285.176+/-0.051 $\chi^2$/NDF:3262062.8/22

Right Out: 186.379+/-0.056 $\chi^2$/NDF: 2479083.9/18

Left In: 282.548+/-0.051 $\chi^2$/NDF:1600750.2/20

Left: 283.859+/-0.036 $\chi^2$/NDF: 4864157.4/43

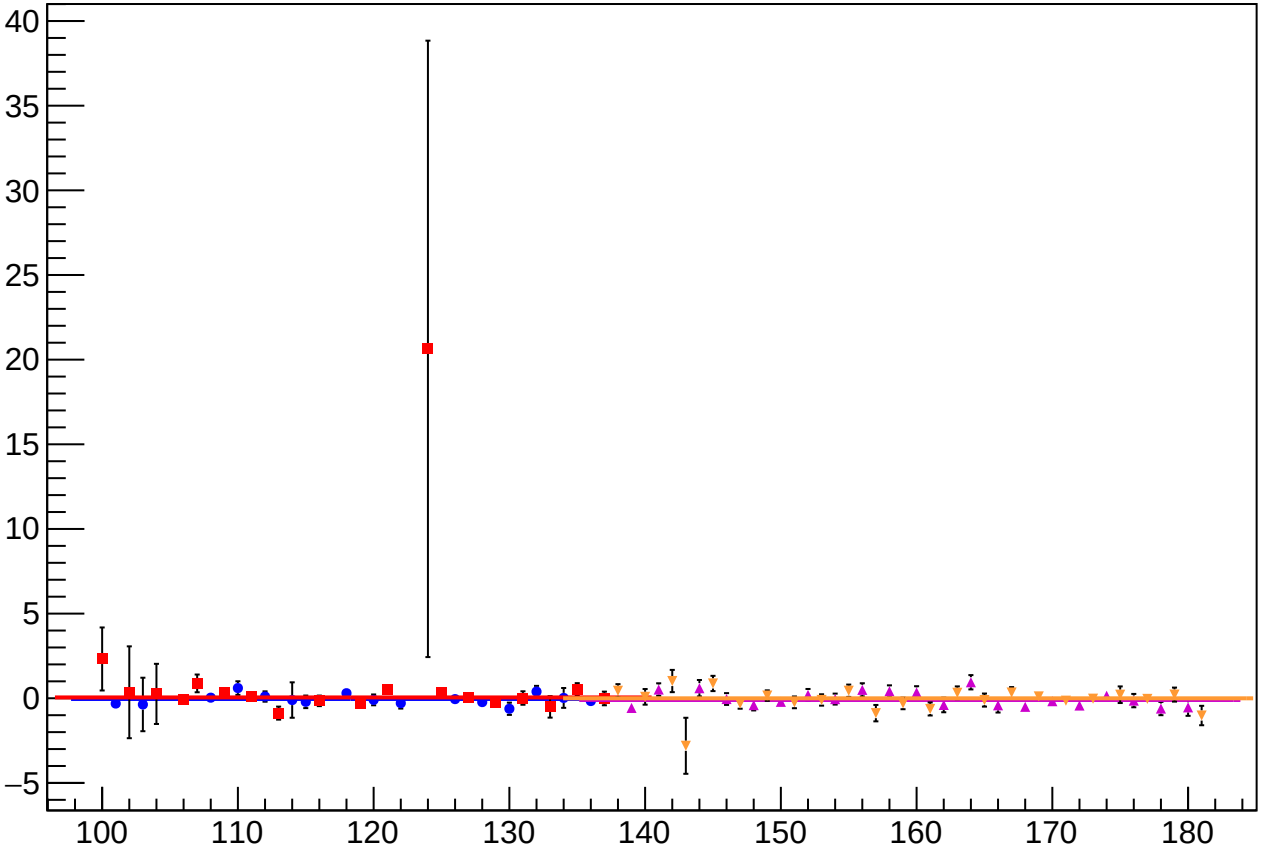
Right: 189.859+/-0.039 $\chi^2$/NDF: 3895183.9/34

In: 241.561+/-0.037 $\chi^2$/NDF:4436363.0/36

Out: 240.379+/-0.038 $\chi^2$/NDF:7459921.9/41

All: 240.974+/-0.026 $\chi^2$/NDF: 11896785.2/78

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.041+/-0.078 $\chi^2$/NDF: 11.7/15

Left Out: -0.003+/-0.072 $\chi^2$/NDF:26.7/22

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.100+/-0.072 $\chi^2$/NDF:30.4/20

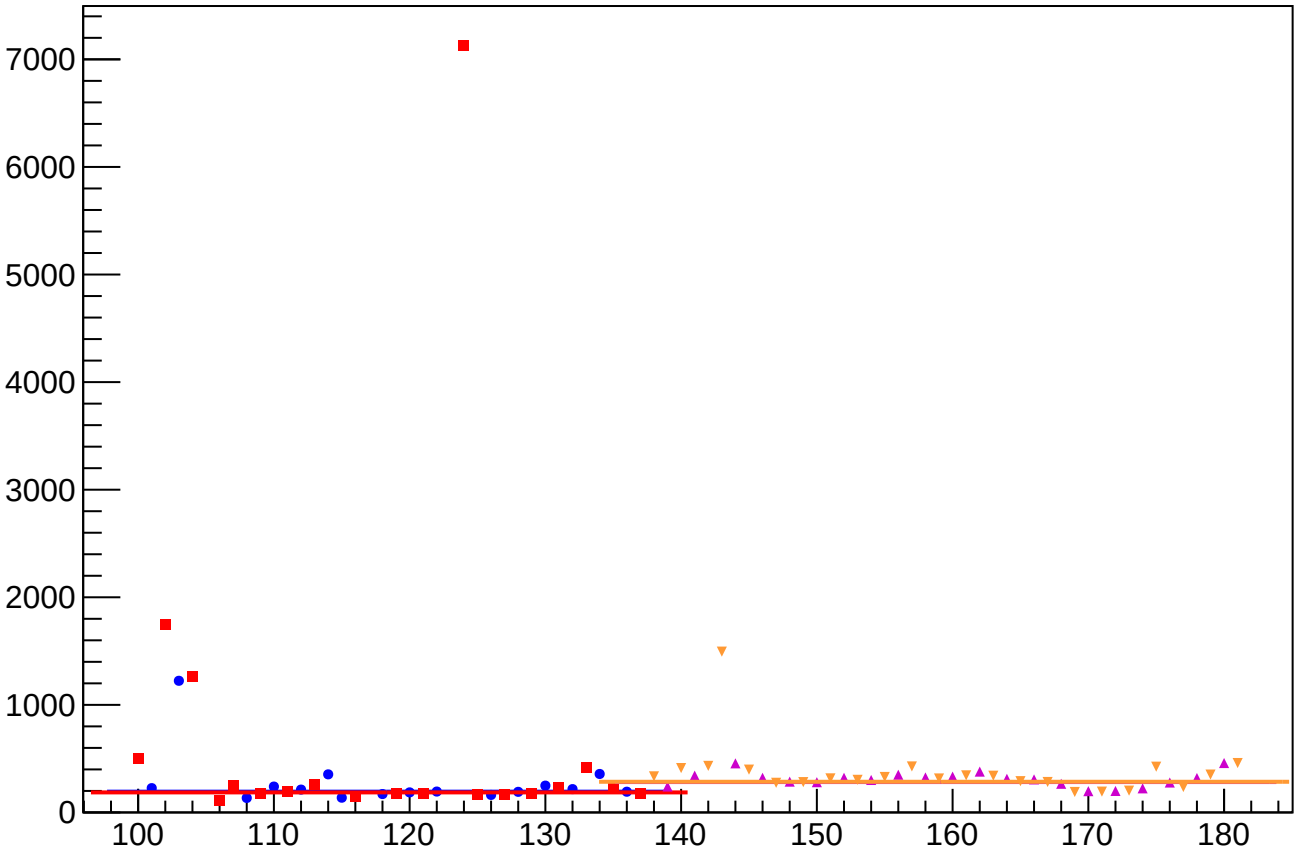
Left: -0.051+/-0.051 $\chi^2$/NDF: 58.0/43

Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.073+/-0.053 $\chi^2$/NDF:42.4/36

Out: 0.021+/-0.053 $\chi^2$/NDF:50.0/41

All: -0.026+/-0.037 $\chi^2$/NDF: 94.0/78




Right In: 193.248+/-0.055 $\chi^2$/NDF: 1408397.0/15

Left Out: 285.176+/-0.051 $\chi^2$/NDF:3262062.8/22

Right Out: 186.379+/-0.056 $\chi^2$/NDF: 2479083.9/18

Left In: 282.548+/-0.051 $\chi^2$/NDF:1600750.2/20

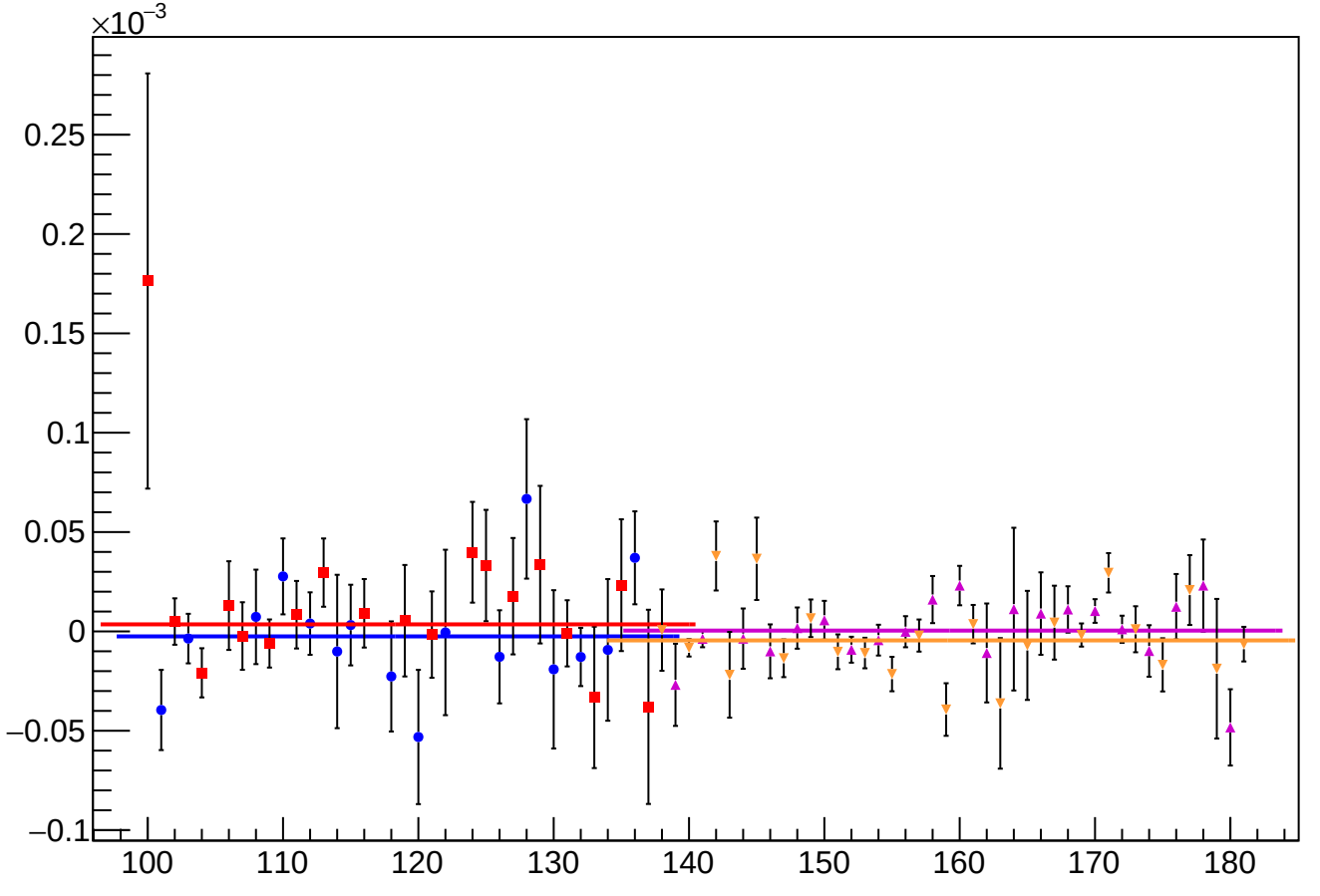
Left: 283.859+/-0.036 $\chi^2$/NDF: 4864157.4/43

Right: 189.859+/-0.039 $\chi^2$/NDF: 3895183.9/34

In: 241.561+/-0.037 $\chi^2$/NDF:4436363.0/36

Out: 240.379+/-0.038 $\chi^2$/NDF:7459921.9/41

All: 240.974+/-0.026 $\chi^2$/NDF: 11896785.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:42.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.7/20

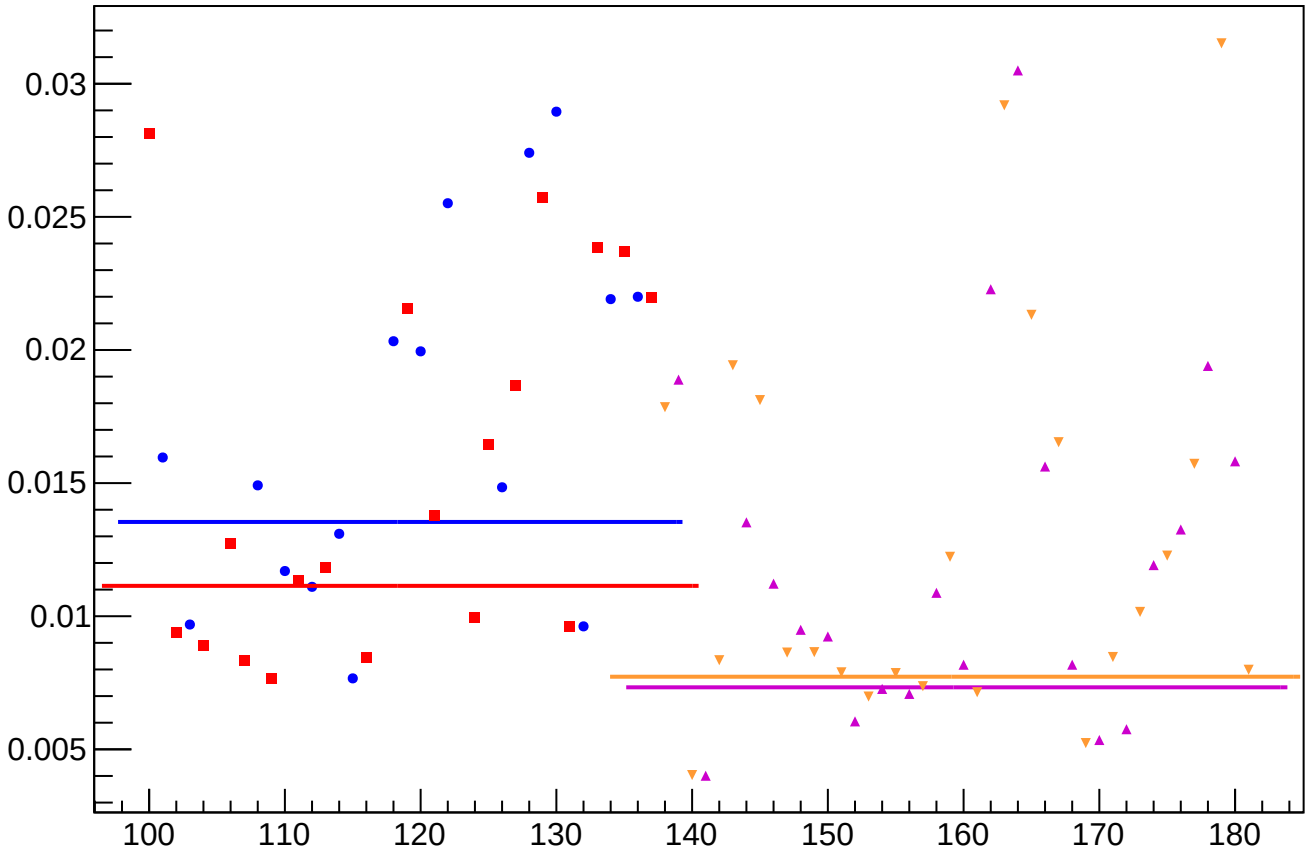
Left: -0.000+/-0.000 $\chi^2$/NDF: 71.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 32.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:41.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:61.8/41

All: -0.000+/-0.000 $\chi^2$/NDF: 105.0/78




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1877615.1/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:7115719.2/22

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 1887740.8/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:6233957.4/20

Left: 0.008+/-0.000 $\chi^2$/NDF: 13386977.8/43

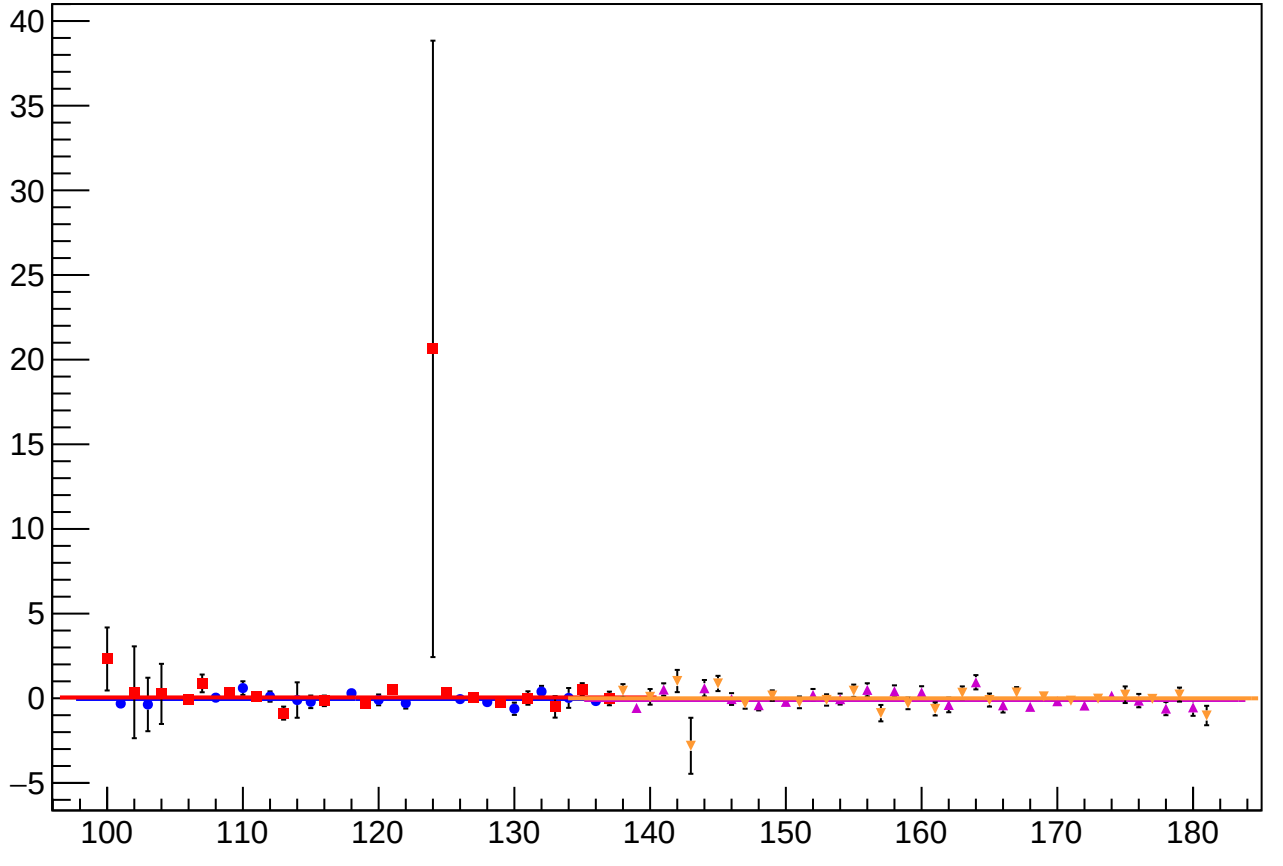
Right: 0.012+/-0.000 $\chi^2$/NDF: 3997435.7/34

In: 0.008+/-0.000 $\chi^2$/NDF:10383685.2/36

Out: 0.008+/-0.000 $\chi^2$/NDF:9966374.6/41

All: 0.008+/-0.000 $\chi^2$/NDF: 20364351.4/78

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.041+/-0.078 $\chi^2$/NDF: 11.7/15

Left Out: -0.003+/-0.072 $\chi^2$/NDF:26.7/22

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.100+/-0.072 $\chi^2$/NDF:30.4/20

Left: -0.051+/-0.051 $\chi^2$/NDF: 58.0/43

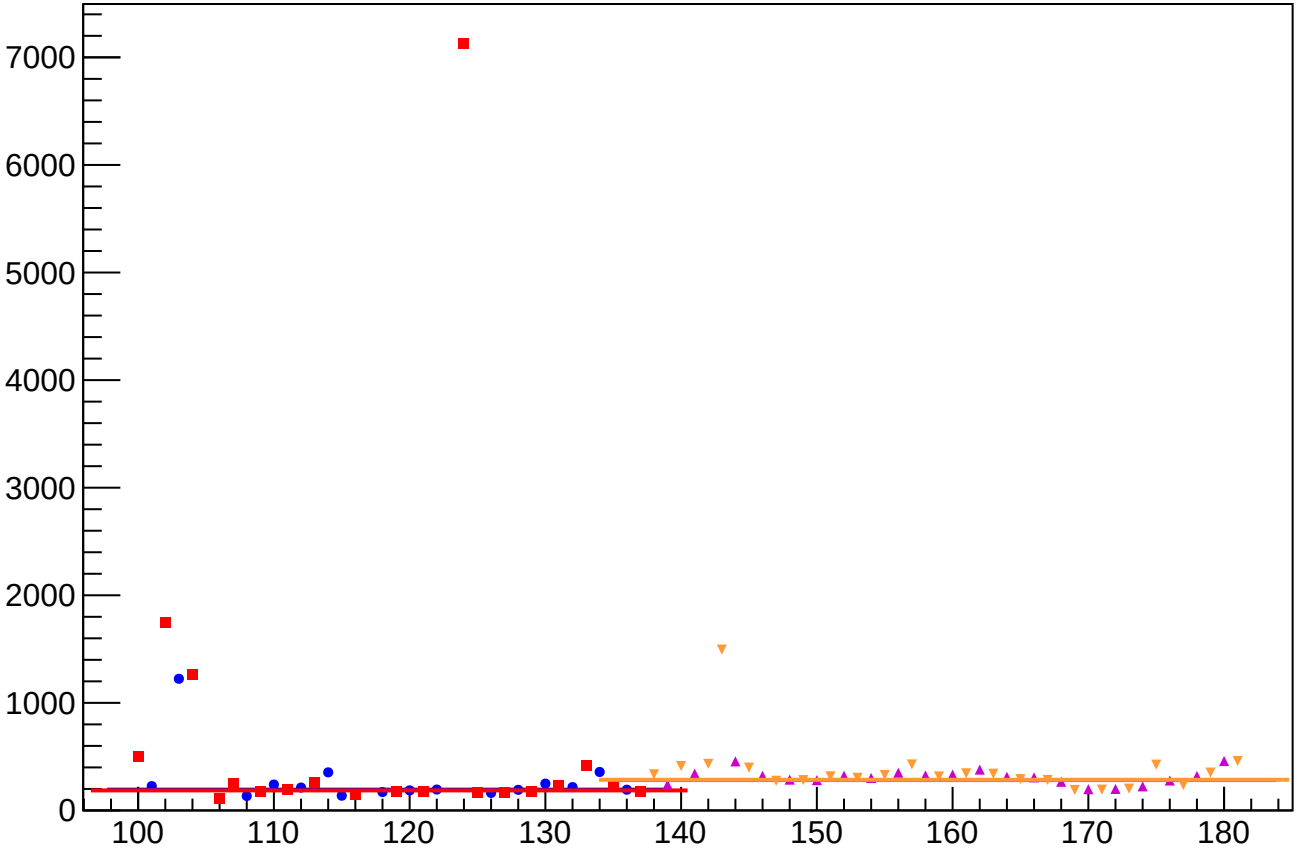
Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.073+/-0.053 $\chi^2$/NDF:42.4/36

Out: 0.021+/-0.053 $\chi^2$/NDF:50.0/41

All: -0.026+/-0.037 $\chi^2$/NDF: 94.0/78

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 193.247+/-0.055 $\chi^2$/NDF: 1408390.6/15

Left Out: 285.179+/-0.051 $\chi^2$/NDF:3262112.8/22

Right Out: 186.376+/-0.056 $\chi^2$/NDF: 2479113.1/18

Left In: 282.550+/-0.051 $\chi^2$/NDF:1600796.9/20

Left: 283.862+/-0.036 $\chi^2$/NDF: 4864254.1/43

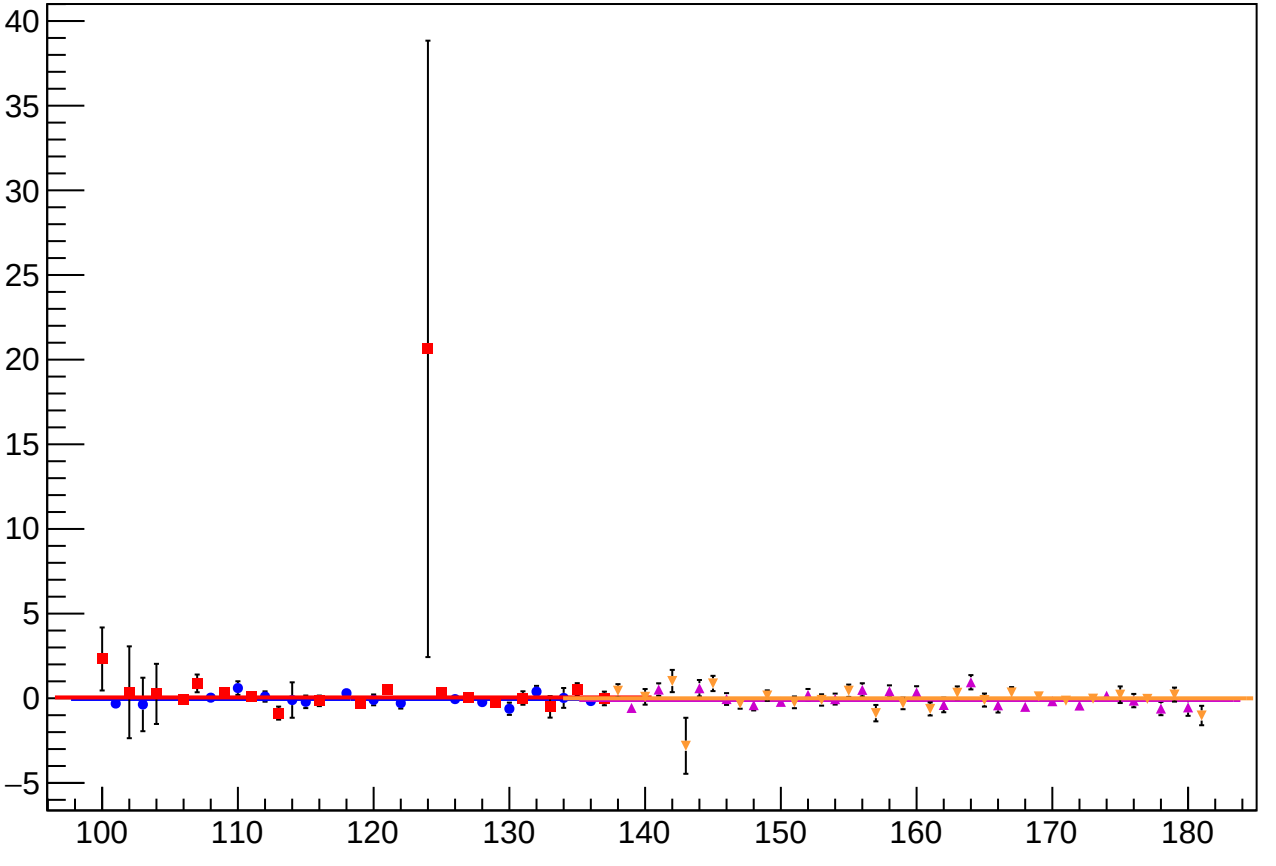
Right: 189.857+/-0.039 $\chi^2$/NDF: 3895208.3/34

In: 241.561+/-0.037 $\chi^2$/NDF:4436532.6/36

Out: 240.378+/-0.038 $\chi^2$/NDF:7460171.7/41

All: 240.974+/-0.026 $\chi^2$/NDF: 11897205.1/78

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.041+/-0.078 $\chi^2$/NDF: 11.7/15

Left Out: -0.003+/-0.072 $\chi^2$/NDF:26.7/22

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.100+/-0.072 $\chi^2$/NDF:30.4/20

Left: -0.051+/-0.051 $\chi^2$/NDF: 58.0/43

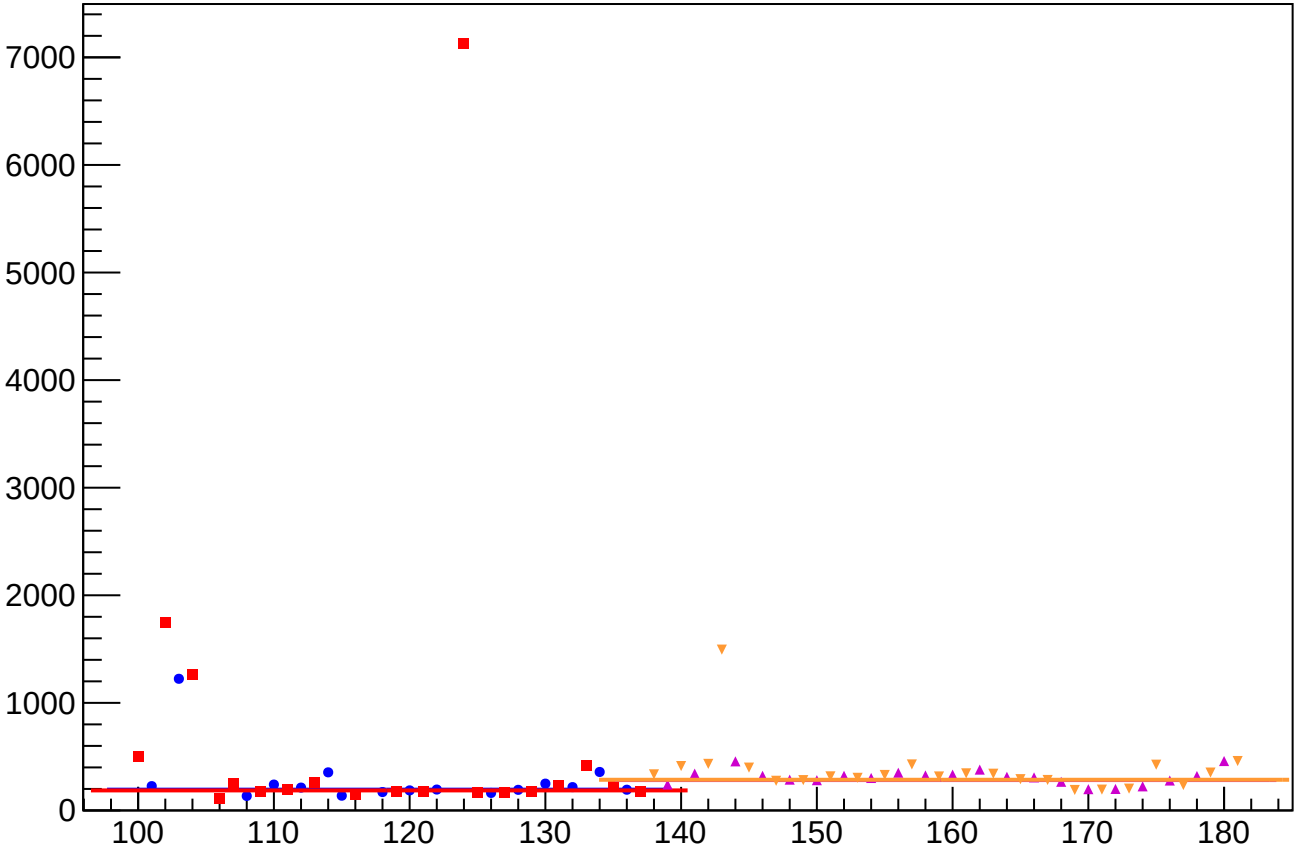
Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.073+/-0.053 $\chi^2$/NDF:42.4/36

Out: 0.021+/-0.053 $\chi^2$/NDF:50.0/41

All: -0.026+/-0.037 $\chi^2$/NDF: 94.0/78

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 193.247+/-0.055 $\chi^2$/NDF: 1408390.6/15

Left Out: 285.179+/-0.051 $\chi^2$/NDF:3262112.8/22

Right Out: 186.376+/-0.056 $\chi^2$/NDF: 2479113.1/18

Left In: 282.550+/-0.051 $\chi^2$/NDF:1600796.9/20

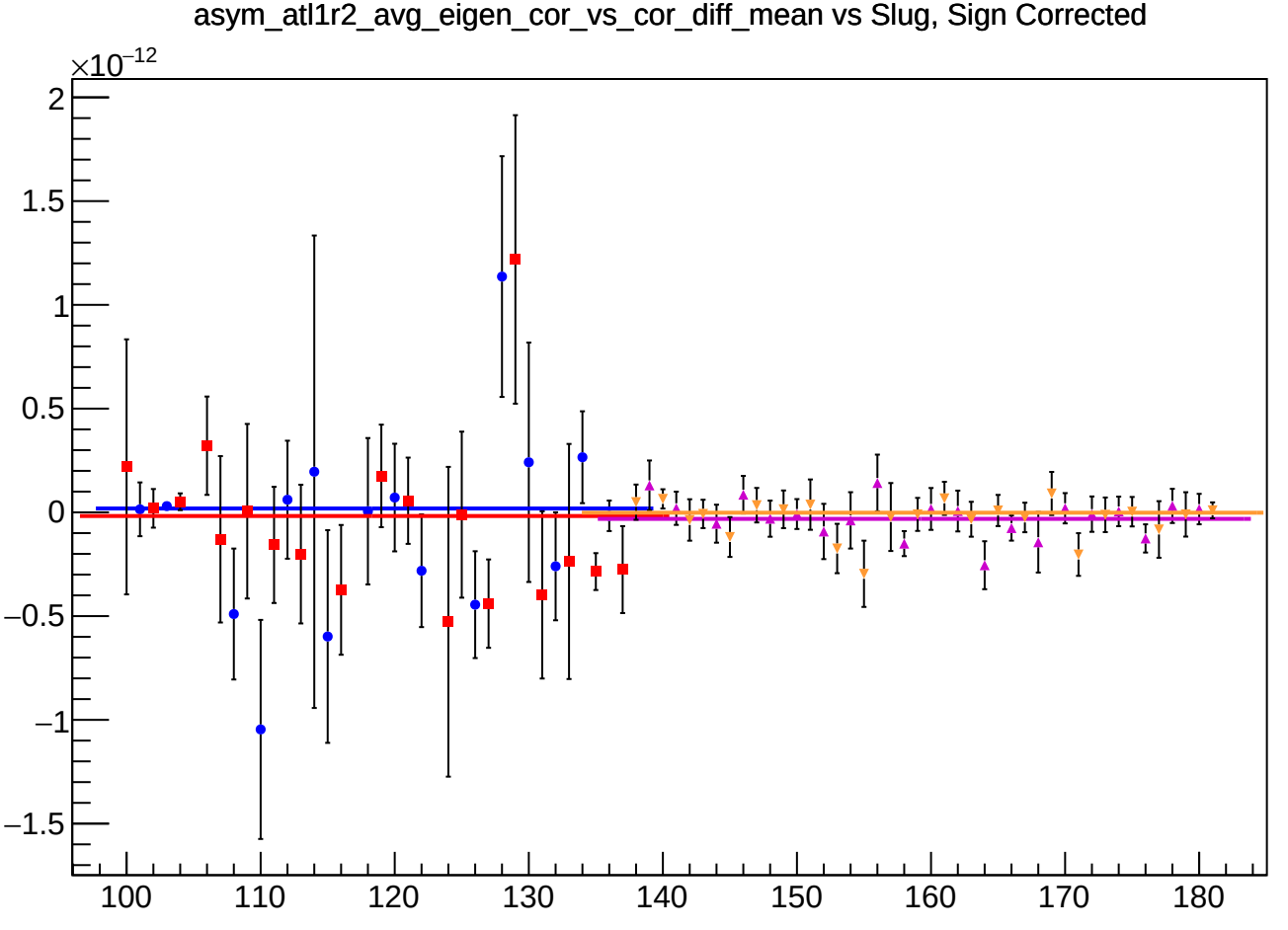
Left: 283.862+/-0.036 $\chi^2$/NDF: 4864254.1/43

Right: 189.857+/-0.039 $\chi^2$/NDF: 3895208.3/34

In: 241.561+/-0.037 $\chi^2$/NDF:4436532.6/36

Out: 240.378+/-0.038 $\chi^2$/NDF:7460171.7/41

All: 240.974+/-0.026 $\chi^2$/NDF: 11897205.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.7/20

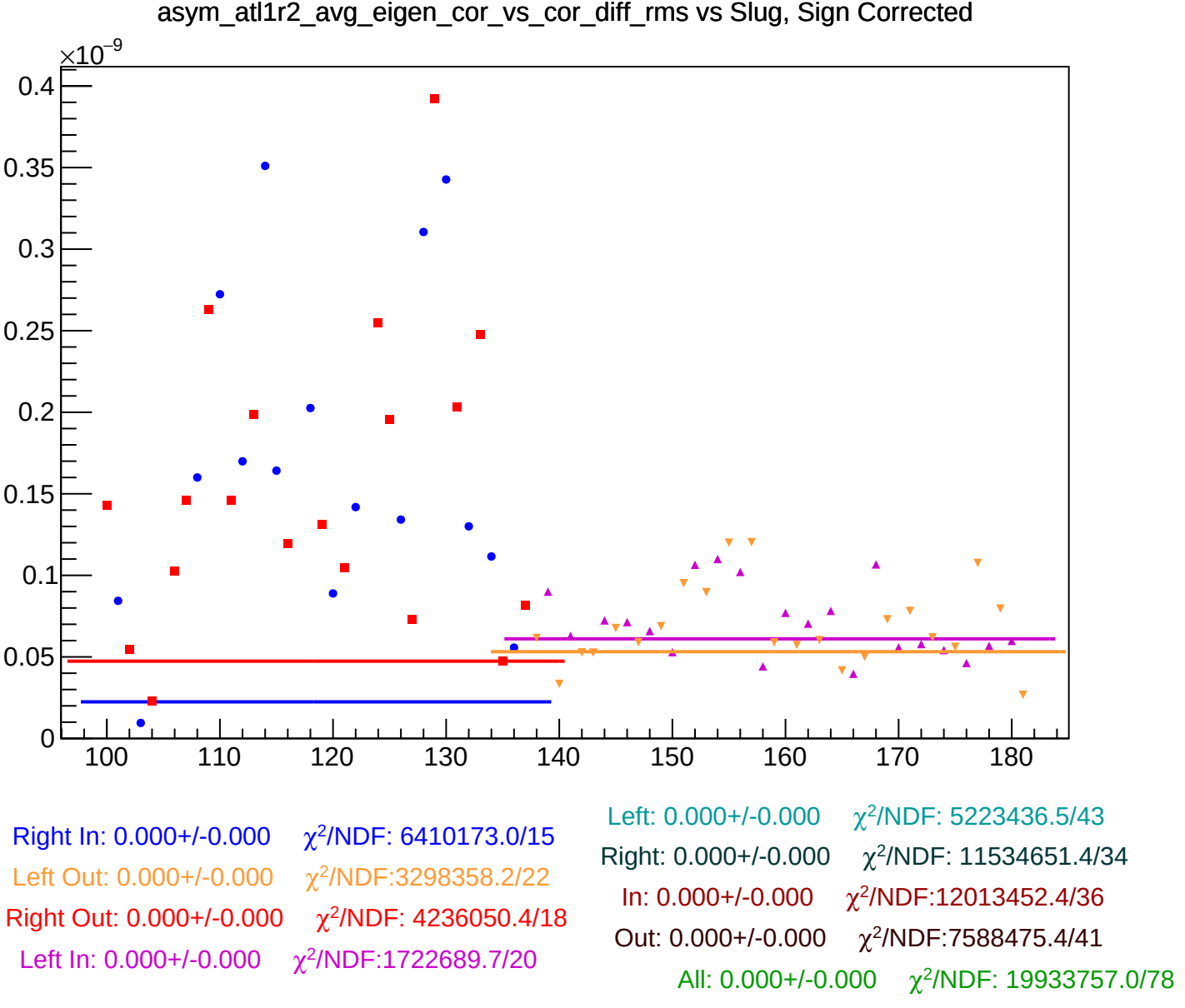
Left: -0.000+/-0.000 $\chi^2$/NDF: 36.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 47.5/34

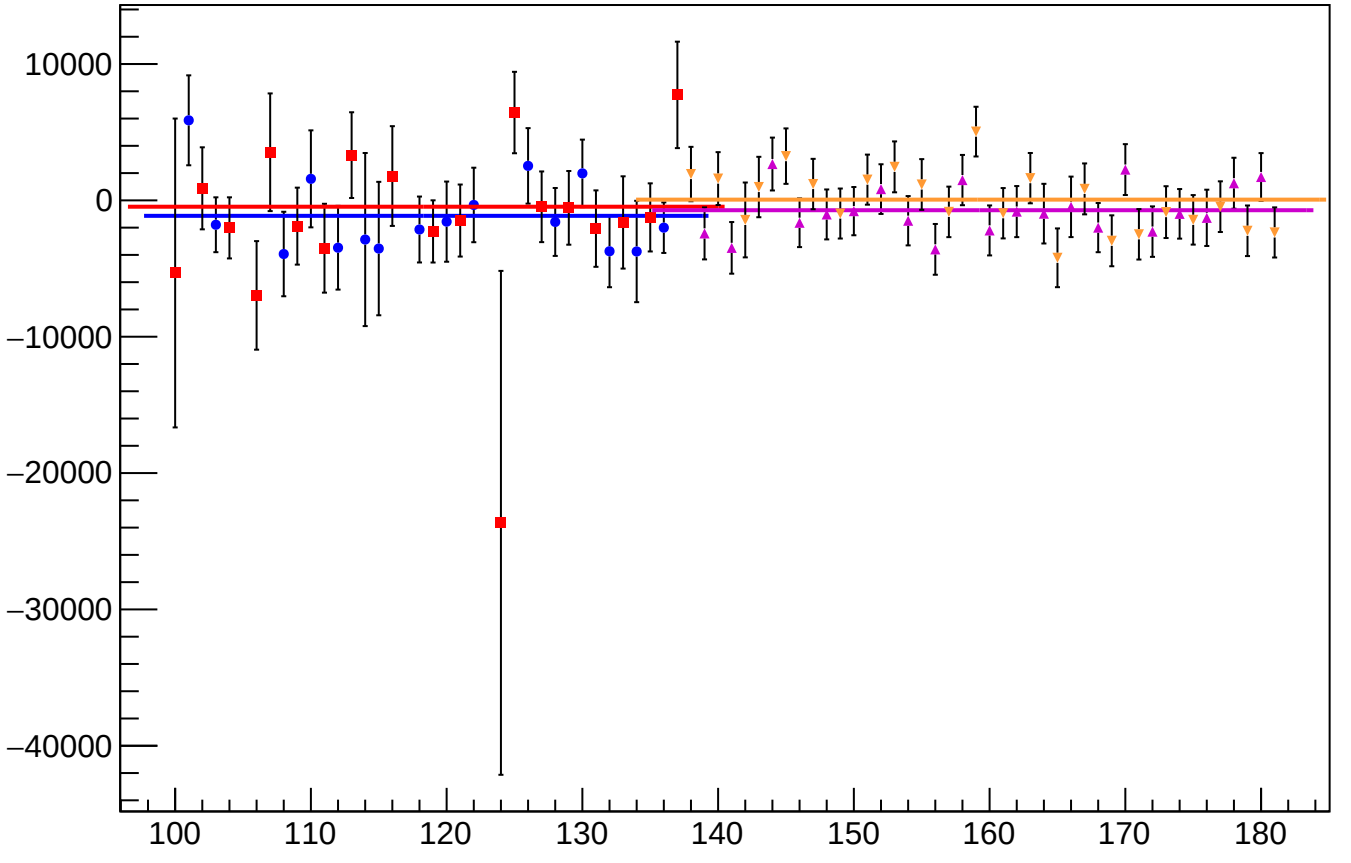
In: -0.000+/-0.000 $\chi^2$/NDF:41.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:43.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 84.8/78


asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−9
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 6410173.0/15
Left Out: 0.000+/-0.000 χ²/NDF:3298358.2/22
Right Out: 0.000+/-0.000 χ²/NDF: 4236050.4/18
Left In: 0.000+/-0.000 χ²/NDF:1722689.7/20
Left: 0.000+/-0.000 χ²/NDF: 5223436.5/43
Right: 0.000+/-0.000 χ²/NDF: 11534651.4/34
In: 0.000+/-0.000 χ²/NDF:12013452.4/36
Out: 0.000+/-0.000 χ²/NDF:7588475.4/41
All: 0.000+/-0.000 χ²/NDF: 19933757.0/78

# reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected




Right In: -1134.630+/-693.782 $\chi^2$/NDF: 12.2/15

Left Out: 54.024+/-399.209 $\chi^2$/NDF:29.3/22

Right Out: -465.519+/-705.926 $\chi^2$/NDF: 20.0/18

Left In: -722.626+/-409.217 $\chi^2$/NDF:18.6/20

Left: -324.688+/-285.756 $\chi^2$/NDF: 49.8/43

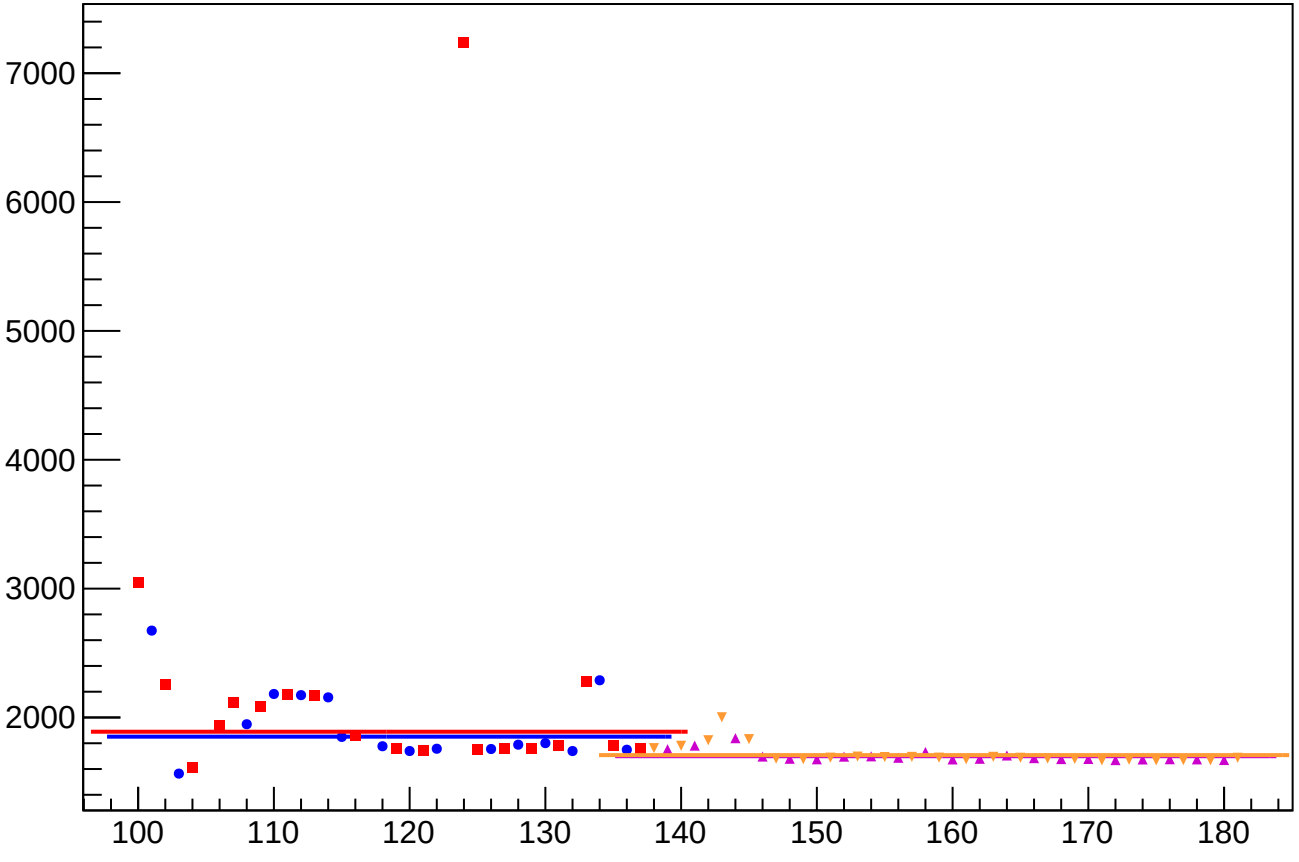
Right: -805.879+/-494.815 $\chi^2$/NDF: 32.7/34

In: -828.967+/-352.471 $\chi^2$/NDF:31.1/36

Out: -71.867+/-347.493 $\chi^2$/NDF:49.8/41

All: -445.033+/-247.456 $\chi^2$/NDF: 83.2/78

# reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1851.130+/-0.491 $\chi^2$/NDF: 259981.6/15

Left Out: 1707.900+/-0.282 $\chi^2$/NDF:58783.1/22

Right Out: 1889.528+/-0.498 $\chi^2$/NDF: 358902.6/18

Left In: 1699.367+/-0.289 $\chi^2$/NDF:20479.3/20

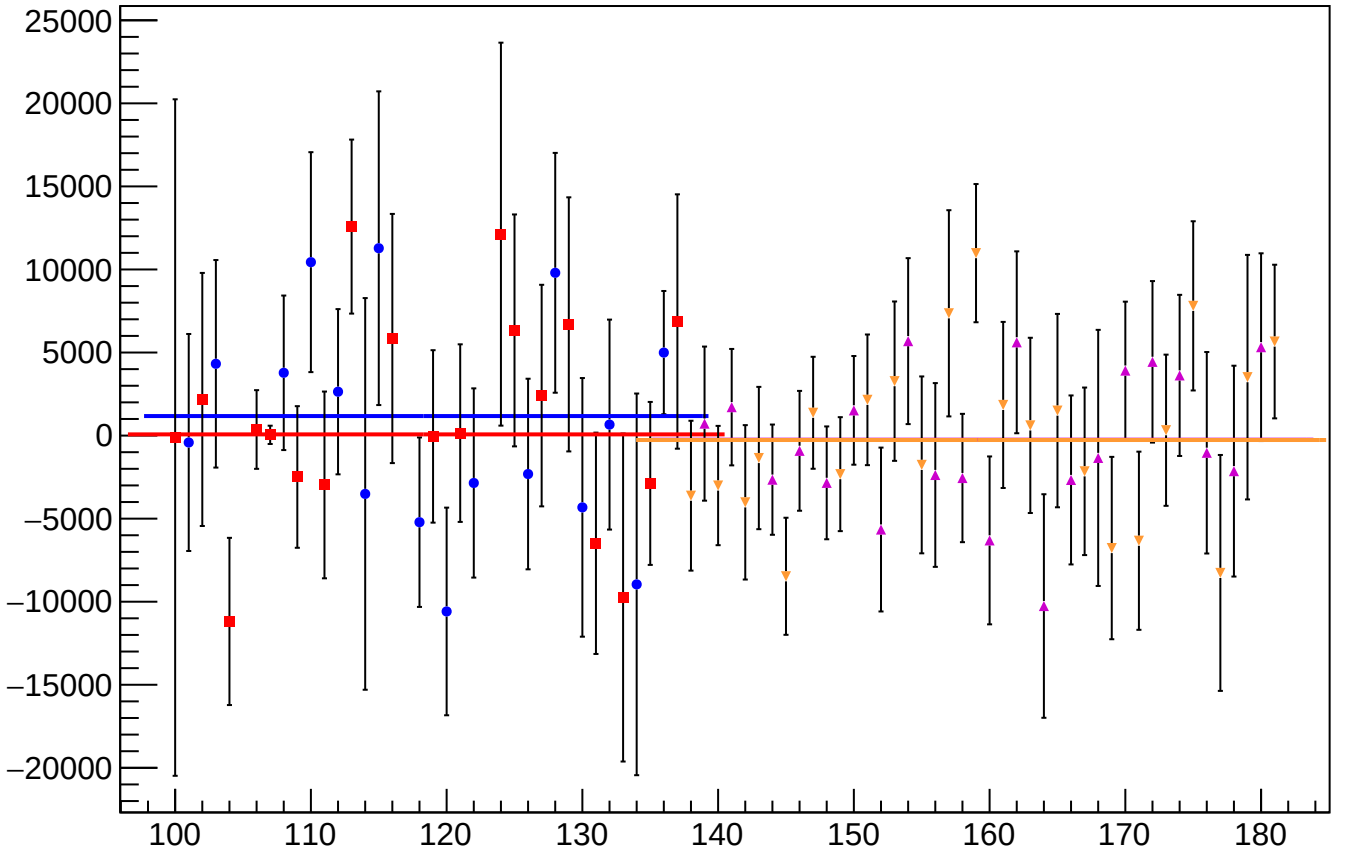
Left: 1703.739+/-0.202 $\chi^2$/NDF: 79708.1/43

Right: 1870.040+/-0.349 $\chi^2$/NDF: 621901.2/34

In: 1738.538+/-0.249 $\chi^2$/NDF:351461.2/36

Out: 1752.065+/-0.246 $\chi^2$/NDF:518353.2/41

All: 1745.402+/-0.175 $\chi^2$/NDF: 871309.1/78




Right In: 1175.430+/-1502.128 $\chi^2$/NDF: 13.7/15

Left Out: -266.305+/-956.562 $\chi^2$/NDF:26.5/22

Right Out: 72.681+/-505.693 $\chi^2$/NDF: 17.9/18

Left In: -245.829+/-983.907 $\chi^2$/NDF:13.6/20

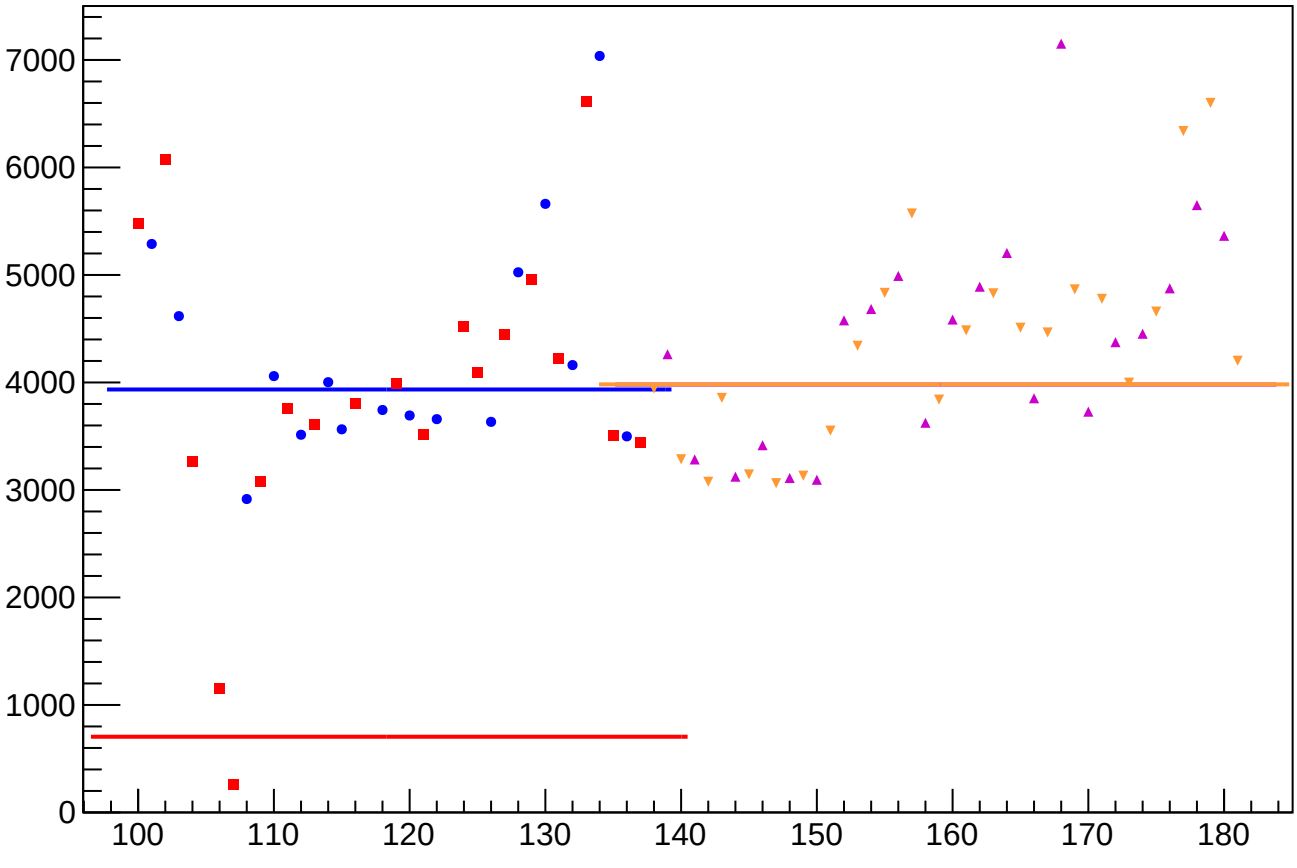
Left: -256.355+/-685.855 $\chi^2$/NDF: 40.1/43

Right: 184.938+/-479.263 $\chi^2$/NDF: 32.1/34

In: 180.872+/-823.062 $\chi^2$/NDF:28.0/36

Out: -1.364+/-447.065 $\chi^2$/NDF:44.5/41

All: 40.153+/-392.852 $\chi^2$/NDF: 72.5/78




Right In: 3934.718+/-1.062 $\chi^2$/NDF: 560125.6/15

Left Out: 3982.070+/-0.676 $\chi^2$/NDF:1472971.7/22

Right Out: 704.385+/-0.358 $\chi^2$/NDF: 10618643.5/18

Left In: 3980.490+/-0.696 $\chi^2$/NDF:1530233.1/20

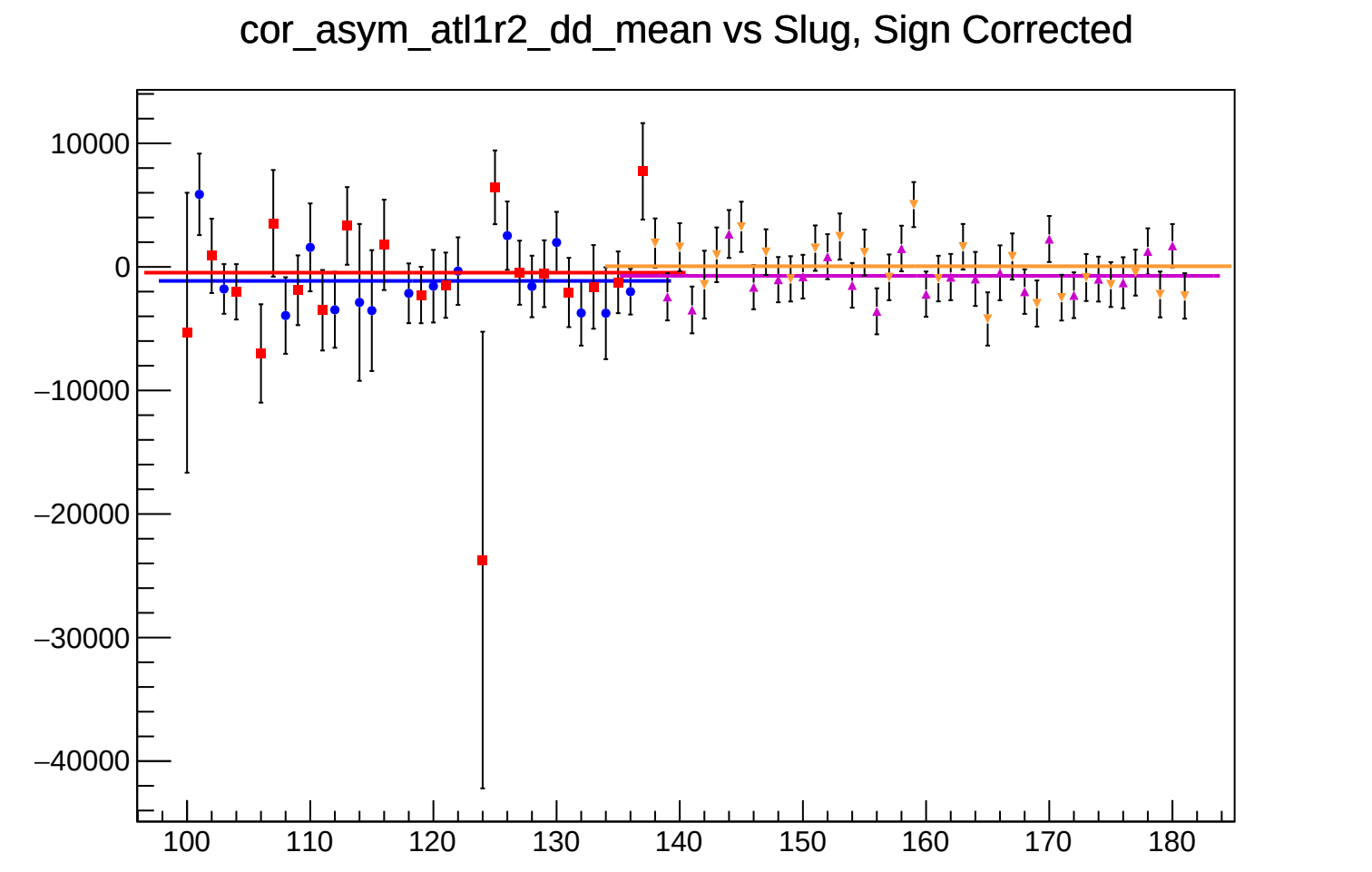
Left: 3981.302+/-0.485 $\chi^2$/NDF: 3003207.5/43

Right: 1033.223+/-0.339 $\chi^2$/NDF: 19486549.2/34

In: 3966.748+/-0.582 $\chi^2$/NDF:2091658.2/36

Out: 1420.335+/-0.316 $\chi^2$/NDF:30444540.9/41

All: 2000.462+/-0.278 $\chi^2$/NDF: 47318466.7/7




Right In: -1134.203+/-693.782 $\chi^2$/NDF: 12.2/15

Left Out: 54.105+/-399.209 $\chi^2$/NDF:29.3/22

Right Out: -465.899+/-705.928 $\chi^2$/NDF: 20.0/18

Left In: -722.499+/-409.217 $\chi^2$/NDF:18.6/20

Left: -324.585+/-285.756 $\chi^2$/NDF: 49.8/43

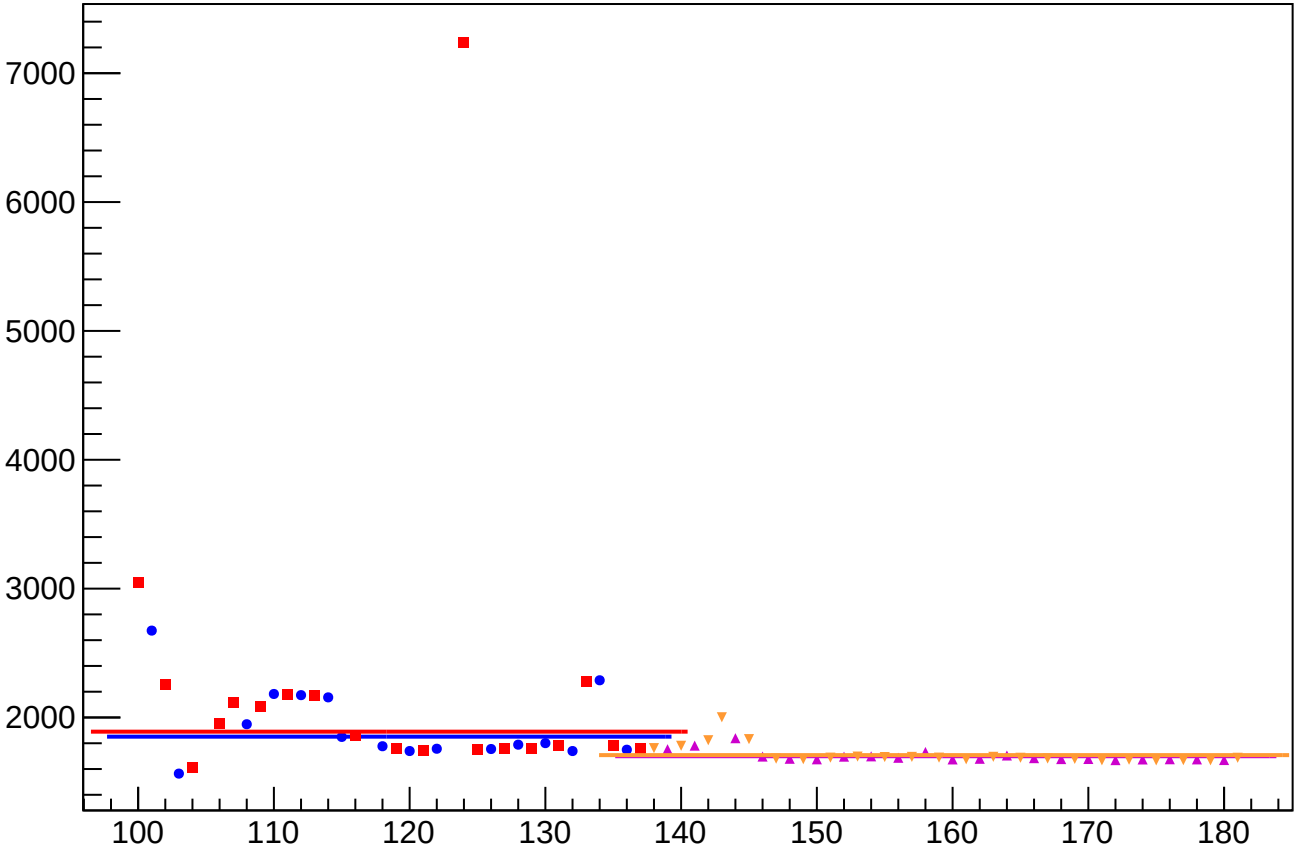
Right: -805.849+/-494.816 $\chi^2$/NDF: 32.7/34

In: -828.763+/-352.471 $\chi^2$/NDF:31.1/36

Out: -71.897+/-347.493 $\chi^2$/NDF:49.8/41

All: -444.948+/-247.456 $\chi^2$/NDF: 83.2/78

# cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1851.131+/-0.491 $\chi^2$/NDF: 259980.7/15

Left Out: 1707.900+/-0.282 $\chi^2$/NDF:58783.1/22

Right Out: 1889.986+/-0.498 $\chi^2$/NDF: 359122.3/18

Left In: 1699.367+/-0.289 $\chi^2$/NDF:20479.3/20

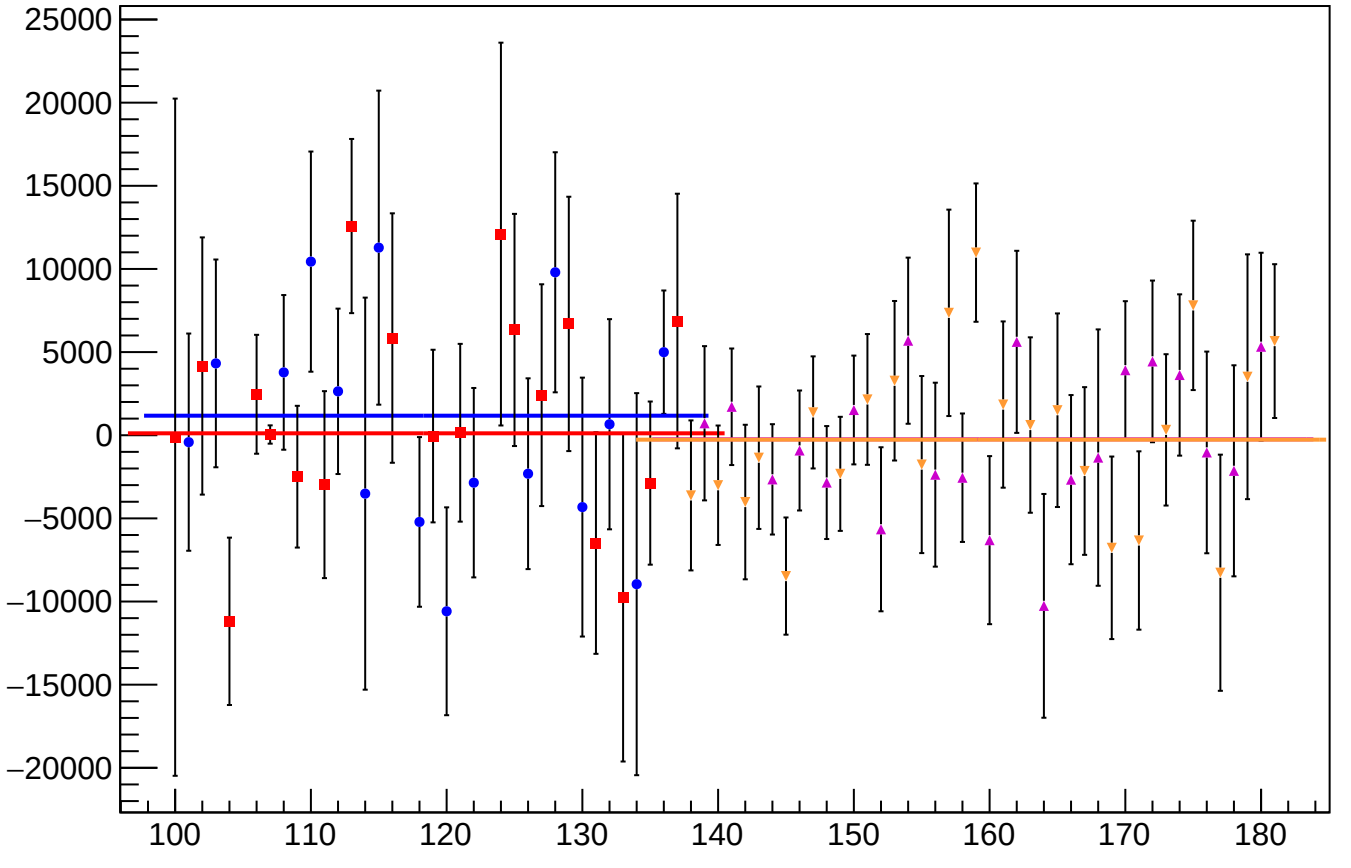
Left: 1703.739+/-0.202 $\chi^2$/NDF: 79708.1/43

Right: 1870.262+/-0.350 $\chi^2$/NDF: 622191.7/34

In: 1738.538+/-0.249 $\chi^2$/NDF:351460.7/36

Out: 1752.162+/-0.246 $\chi^2$/NDF:519046.8/41

All: 1745.450+/-0.175 $\chi^2$/NDF: 872023.4/78




Right In: 1175.408+/-1502.134 $\chi^2$/NDF: 13.7/15

Left Out: -266.283+/-956.560 $\chi^2$/NDF:26.5/22

Right Out: 115.917+/-512.289 $\chi^2$/NDF: 18.6/18

Left In: -245.760+/-983.906 $\chi^2$/NDF:13.6/20

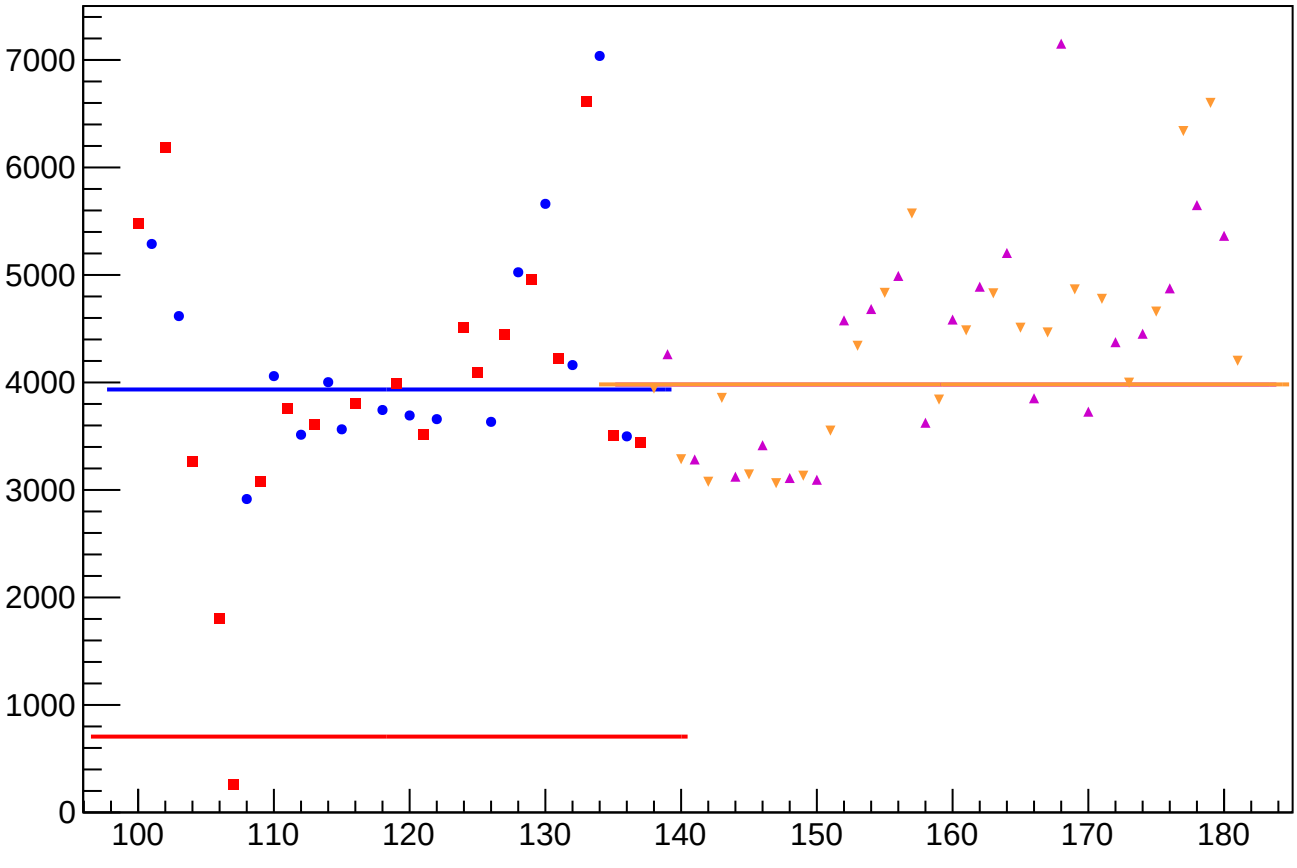
Left: -256.310+/-685.854 $\chi^2$/NDF: 40.1/43

Right: 226.306+/-484.867 $\chi^2$/NDF: 32.7/34

In: 180.911+/-823.062 $\chi^2$/NDF:28.0/36

Out: 30.729+/-451.603 $\chi^2$/NDF:45.2/41

All: 65.480+/-395.921 $\chi^2$/NDF: 73.2/78




Right In: 3934.727+/-1.062 $\chi^2$/NDF: 560149.8/15

Left Out: 3982.060+/-0.676 $\chi^2$/NDF:1472987.1/22

Right Out: 705.620+/-0.362 $\chi^2$/NDF: 10747208.1/18

Left In: 3980.489+/-0.696 $\chi^2$/NDF:1530216.6/20

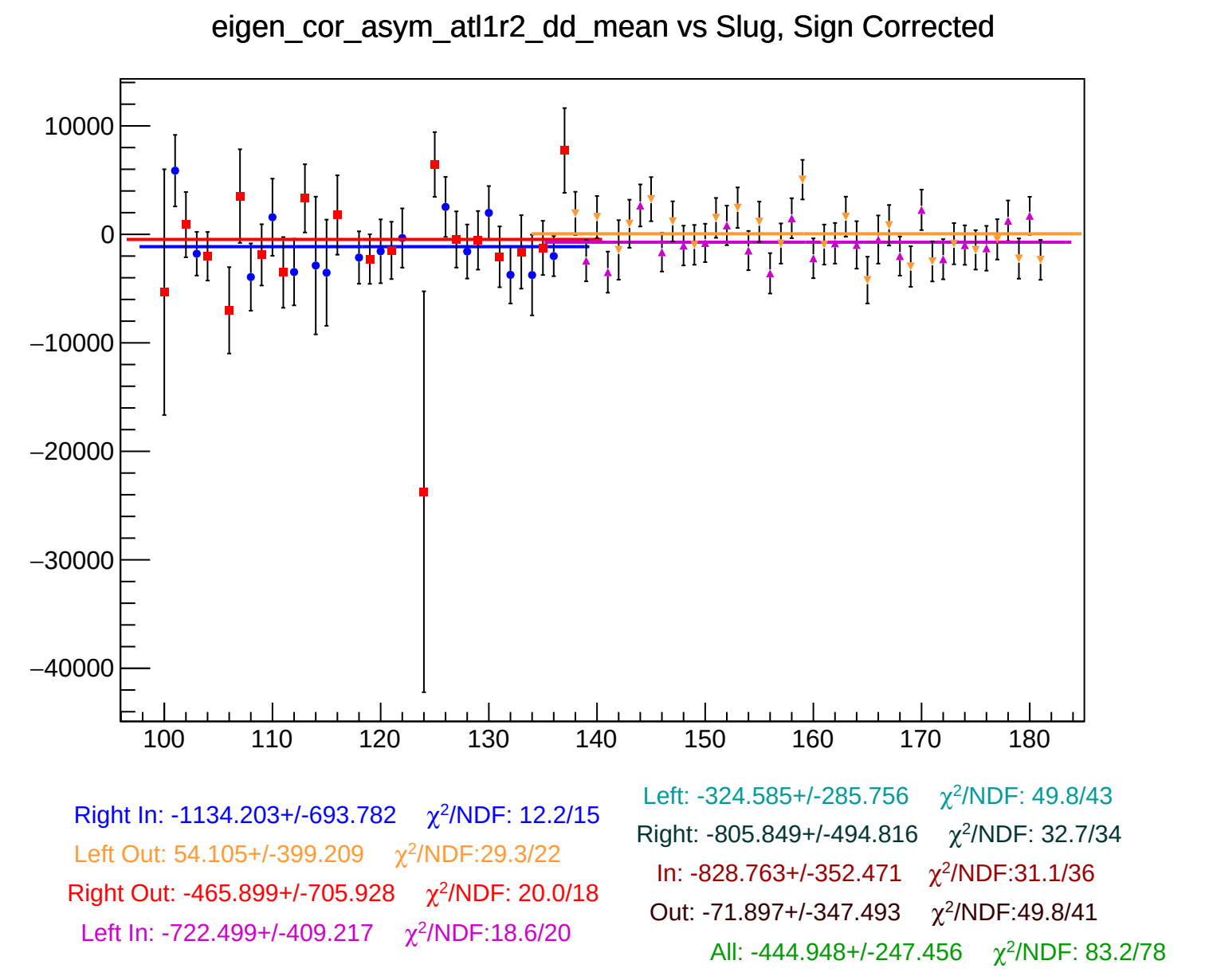
Left: 3981.297+/-0.485 $\chi^2$/NDF: 3003206.3/43

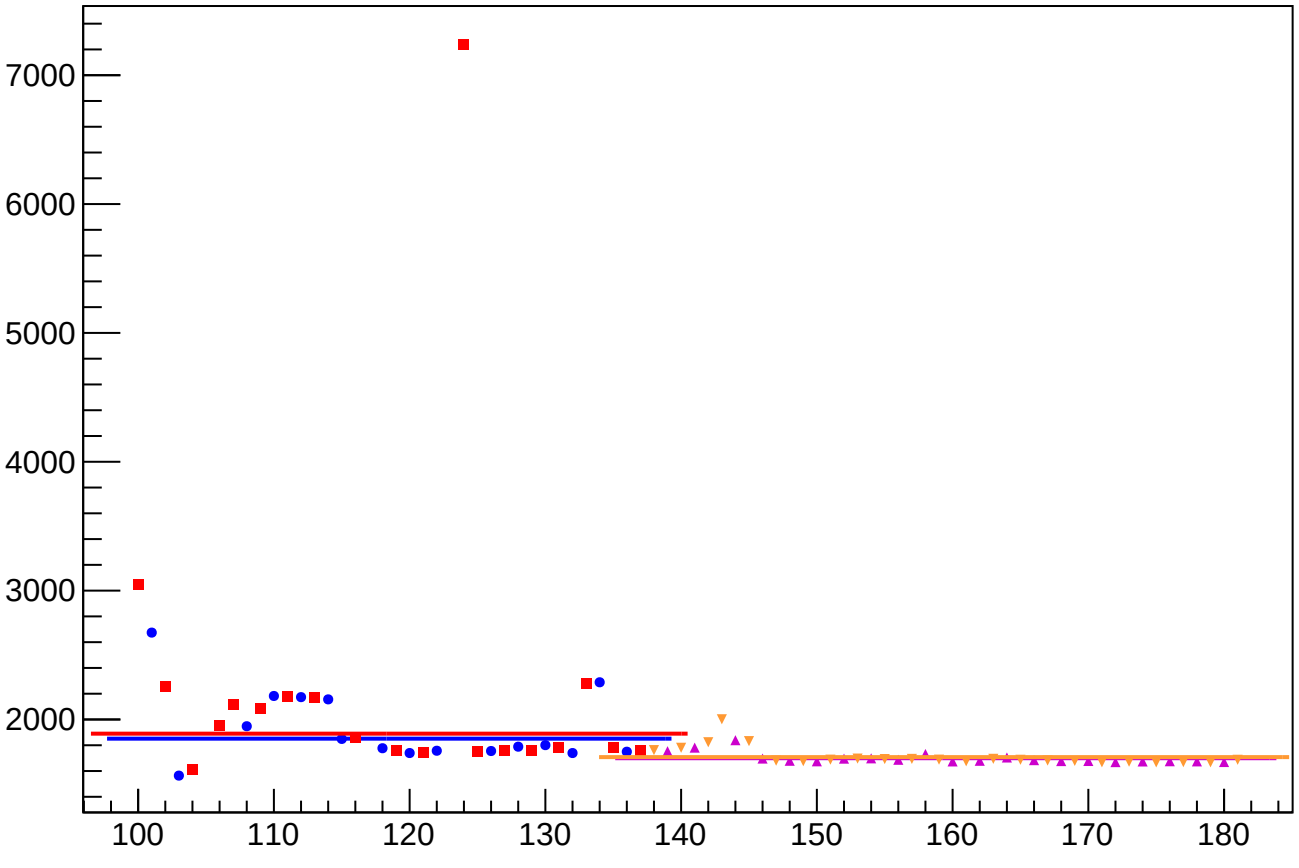
Right: 1042.063+/-0.343 $\chi^2$/NDF: 19586646.8/34

In: 3966.750+/-0.582 $\chi^2$/NDF:2091665.3/36

Out: 1435.903+/-0.319 $\chi^2$/NDF:30454665.6/41

All: 2021.525+/-0.280 $\chi^2$/NDF: 47080840.5/7


eigen_cor_asym_atl1r2_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
110
120
130
140
150
160
170
180
Right In: -1134.203+/-693.782 χ²/NDF: 12.2/15
Left Out: 54.105+/-399.209 χ²/NDF:29.3/22
Right Out: -465.899+/-705.928 χ²/NDF: 20.0/18
Left In: -722.499+/-409.217 χ²/NDF:18.6/20
Left: -324.585+/-285.756 χ²/NDF: 49.8/43
Right: -805.849+/-494.816 χ²/NDF: 32.7/34
In: -828.763+/-352.471 χ²/NDF:31.1/36
Out: -71.897+/-347.493 χ²/NDF:49.8/41
All: -444.948+/-247.456 χ²/NDF: 83.2/78




Right In: 1851.131+/-0.491 $\chi^2$/NDF: 259980.7/15

Left Out: 1707.900+/-0.282 $\chi^2$/NDF:58783.1/22

Right Out: 1889.986+/-0.498 $\chi^2$/NDF: 359122.3/18

Left In: 1699.367+/-0.289 $\chi^2$/NDF:20479.3/20

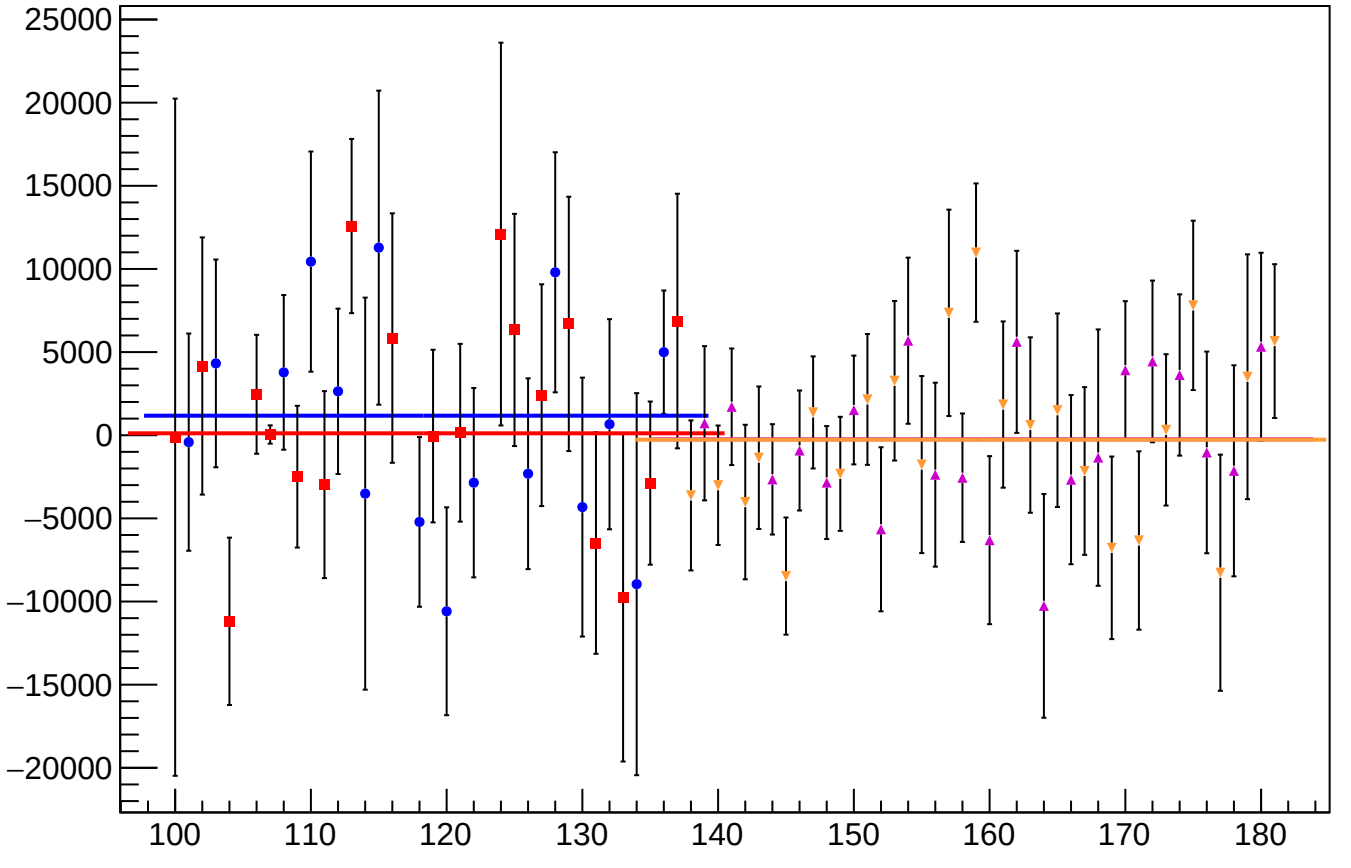
Left: 1703.739+/-0.202 $\chi^2$/NDF: 79708.1/43

Right: 1870.262+/-0.350 $\chi^2$/NDF: 622191.7/34

In: 1738.538+/-0.249 $\chi^2$/NDF:351460.7/36

Out: 1752.162+/-0.246 $\chi^2$/NDF:519046.8/41

All: 1745.450+/-0.175 $\chi^2$/NDF: 872023.4/78




Right In: 1175.408+/-1502.134 $\chi^2$/NDF: 13.7/15

Left Out: -266.283+/-956.560 $\chi^2$/NDF:26.5/22

Right Out: 115.917+/-512.289 $\chi^2$/NDF: 18.6/18

Left In: -245.760+/-983.906 $\chi^2$/NDF:13.6/20

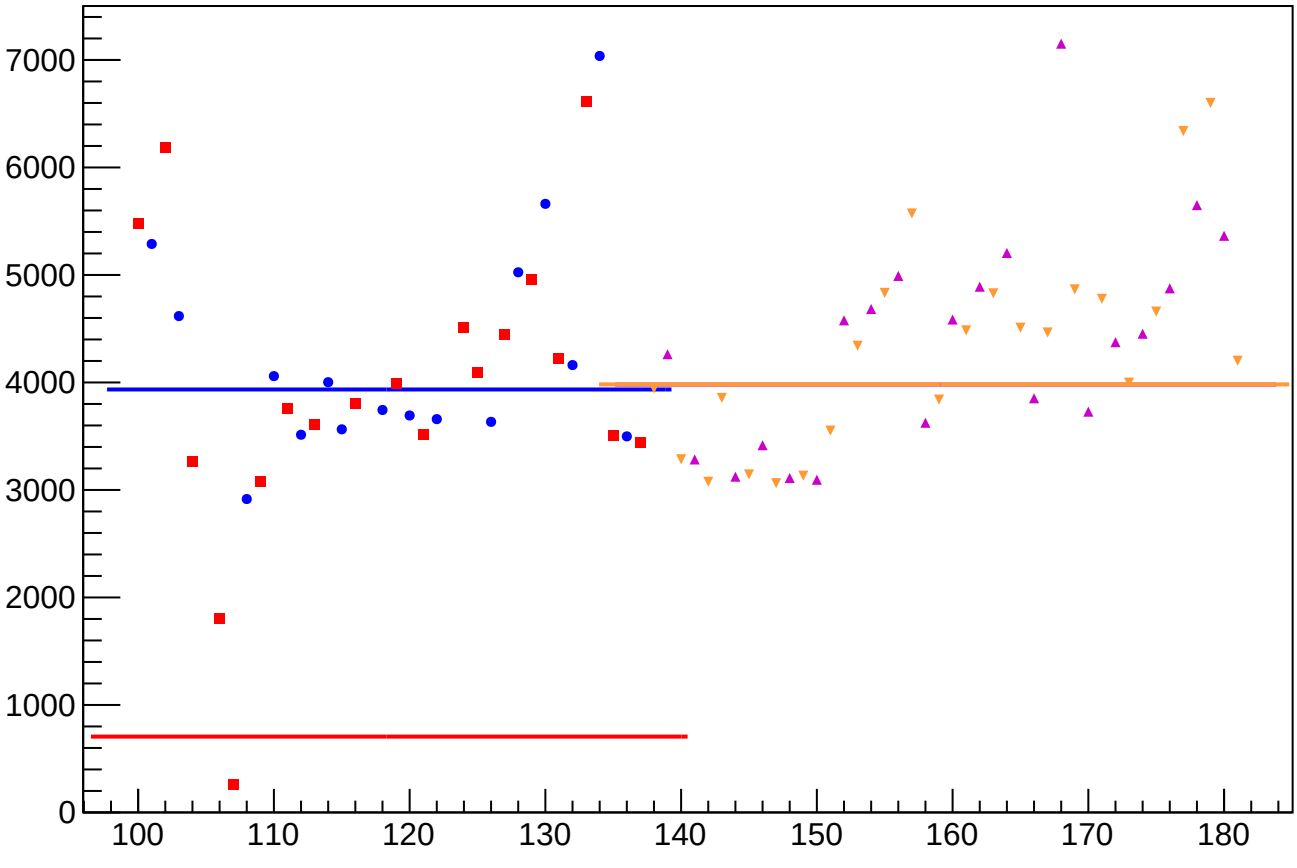
Left: -256.310+/-685.854 $\chi^2$/NDF: 40.1/43

Right: 226.306+/-484.867 $\chi^2$/NDF: 32.7/34

In: 180.911+/-823.062 $\chi^2$/NDF:28.0/36

Out: 30.729+/-451.603 $\chi^2$/NDF:45.2/41

All: 65.480+/-395.921 $\chi^2$/NDF: 73.2/78




Right In: 3934.727+/-1.062 $\chi^2$/NDF: 560149.8/15

Left Out: 3982.060+/-0.676 $\chi^2$/NDF:1472987.1/22

Right Out: 705.620+/-0.362 $\chi^2$/NDF: 10747208.1/18

Left In: 3980.489+/-0.696 $\chi^2$/NDF:1530216.6/20

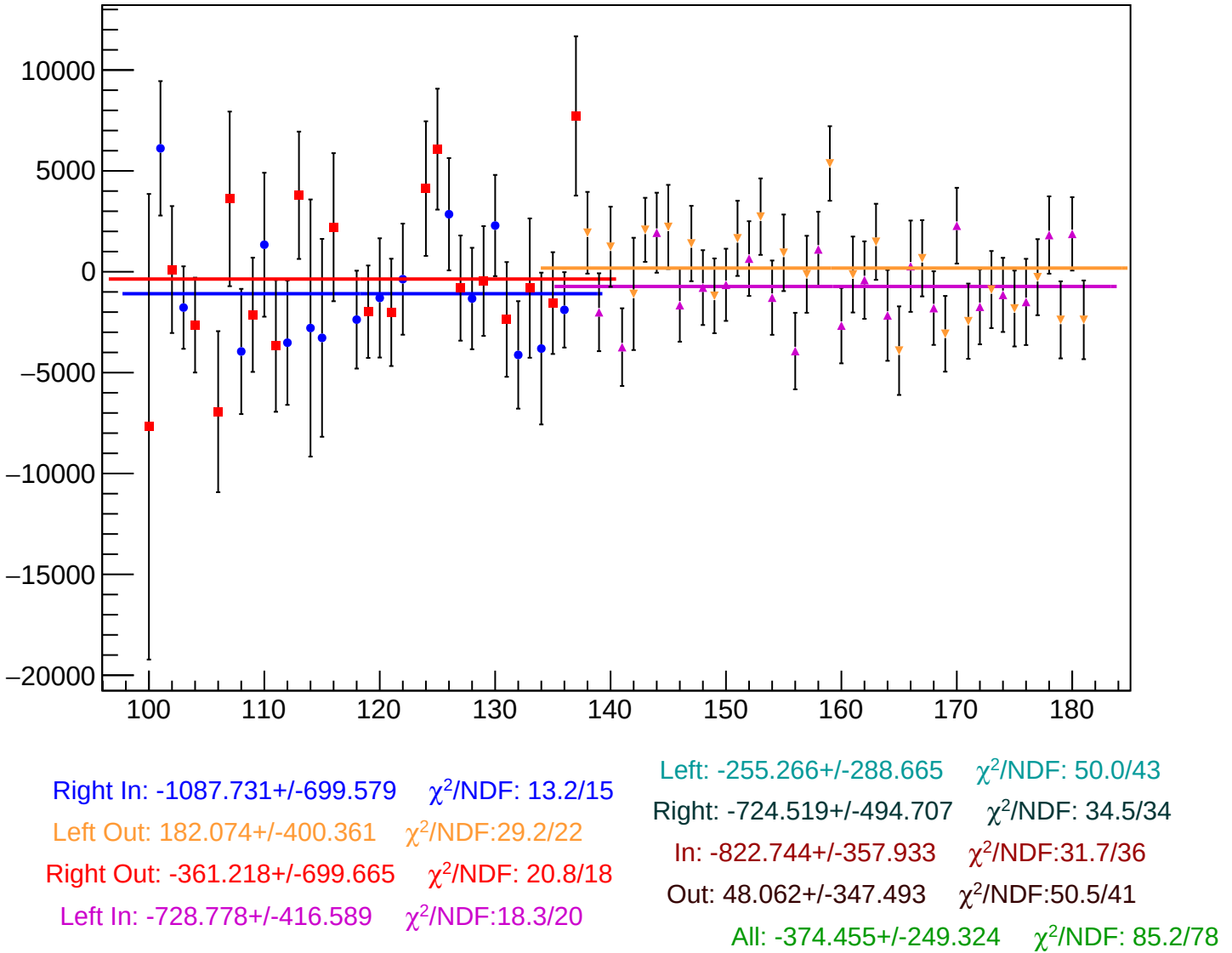
Left: 3981.297+/-0.485 $\chi^2$/NDF: 3003206.3/43

Right: 1042.063+/-0.343 $\chi^2$/NDF: 19586646.8/34

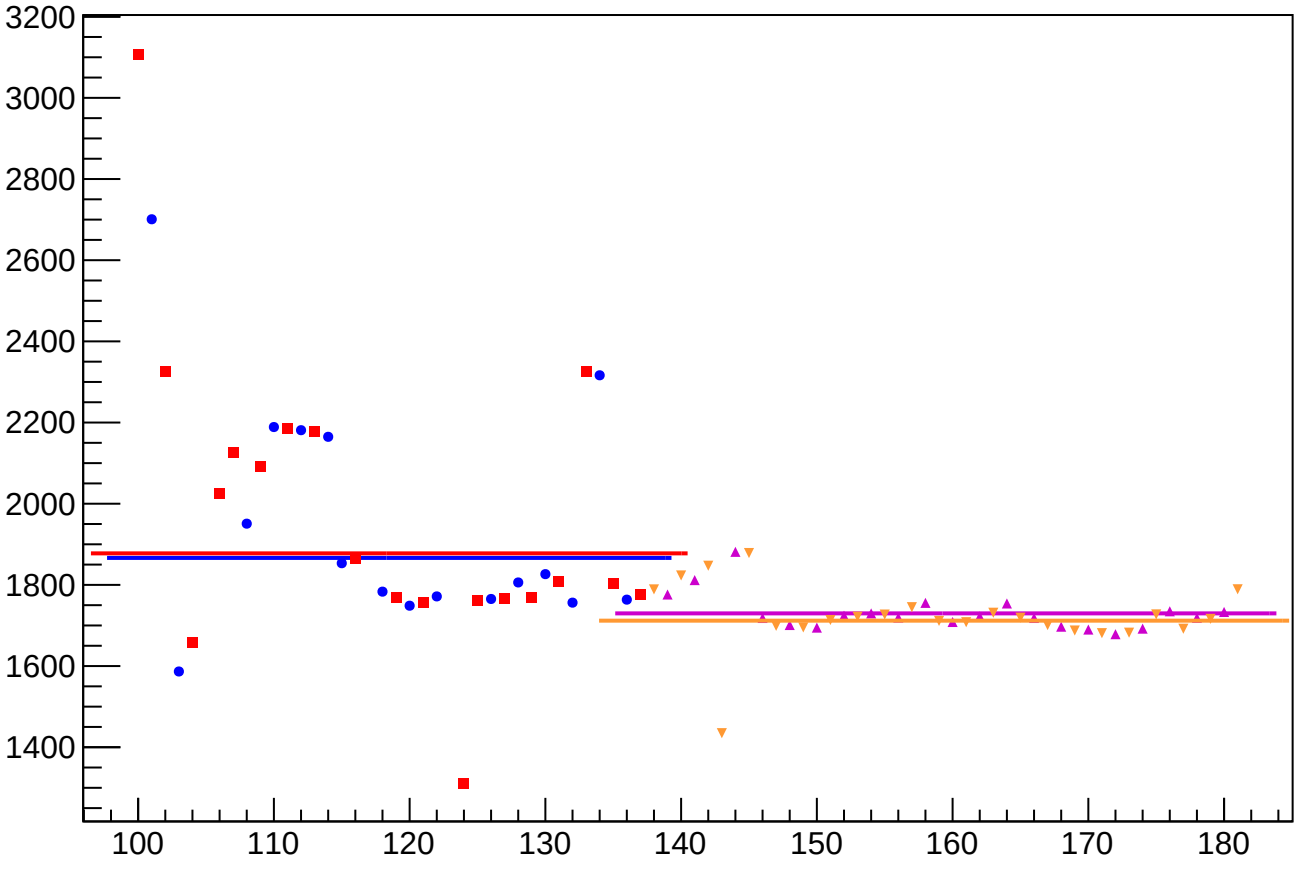
In: 3966.750+/-0.582 $\chi^2$/NDF:2091665.3/36

Out: 1435.903+/-0.319 $\chi^2$/NDF:30454665.6/41

All: 2021.525+/-0.280 $\chi^2$/NDF: 47080840.5/7


dit_asym_atl1r2_dd_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
160
170
180
Right In: -1087.731+/-699.579 χ²/NDF: 13.2/15
Left Out: 182.074+/-400.361 χ²/NDF:29.2/22
Right Out: -361.218+/-699.665 χ²/NDF: 20.8/18
Left In: -728.778+/-416.589 χ²/NDF:18.3/20
Left: -255.266+/-288.665 χ²/NDF: 50.0/43
Right: -724.519+/-494.707 χ²/NDF: 34.5/34
In: -822.744+/-357.933 χ²/NDF:31.7/36
Out: 48.062+/-347.493 χ²/NDF:50.5/41
All: -374.455+/-249.324 χ²/NDF: 85.2/78

# dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1866.456+/-0.495 $\chi^2$/NDF: 256262.4/15

Left Out: 1711.857+/-0.283 $\chi^2$/NDF:93891.1/22

Right Out: 1877.659+/-0.494 $\chi^2$/NDF: 251850.5/18

Left In: 1729.808+/-0.295 $\chi^2$/NDF:22833.1/20

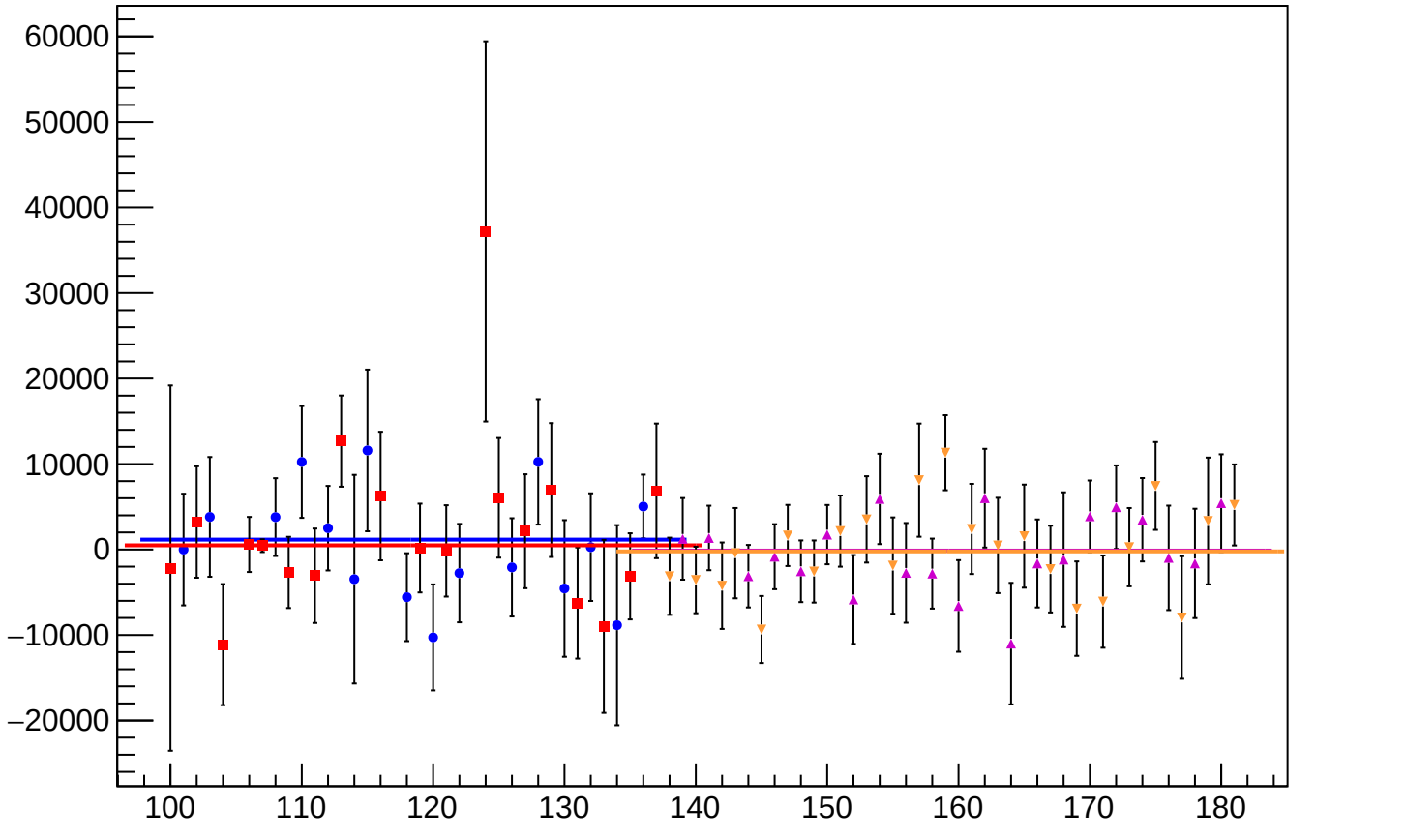
Left: 1720.476+/-0.204 $\chi^2$/NDF: 118654.5/43

Right: 1872.061+/-0.350 $\chi^2$/NDF: 508369.5/34

In: 1765.579+/-0.253 $\chi^2$/NDF:335427.1/36

Out: 1752.806+/-0.246 $\chi^2$/NDF:430455.4/41

All: 1759.002+/-0.176 $\chi^2$/NDF: 767193.7/78




Right In: 1161.124+/-1512.225 $\chi^2$/NDF: 13.7/15

Left Out: -217.423+/-1009.225 $\chi^2$/NDF:25.5/22

Right Out: 492.907+/-658.510 $\chi^2$/NDF: 16.9/18

Left In: -123.054+/-1030.704 $\chi^2$/NDF:13.4/20

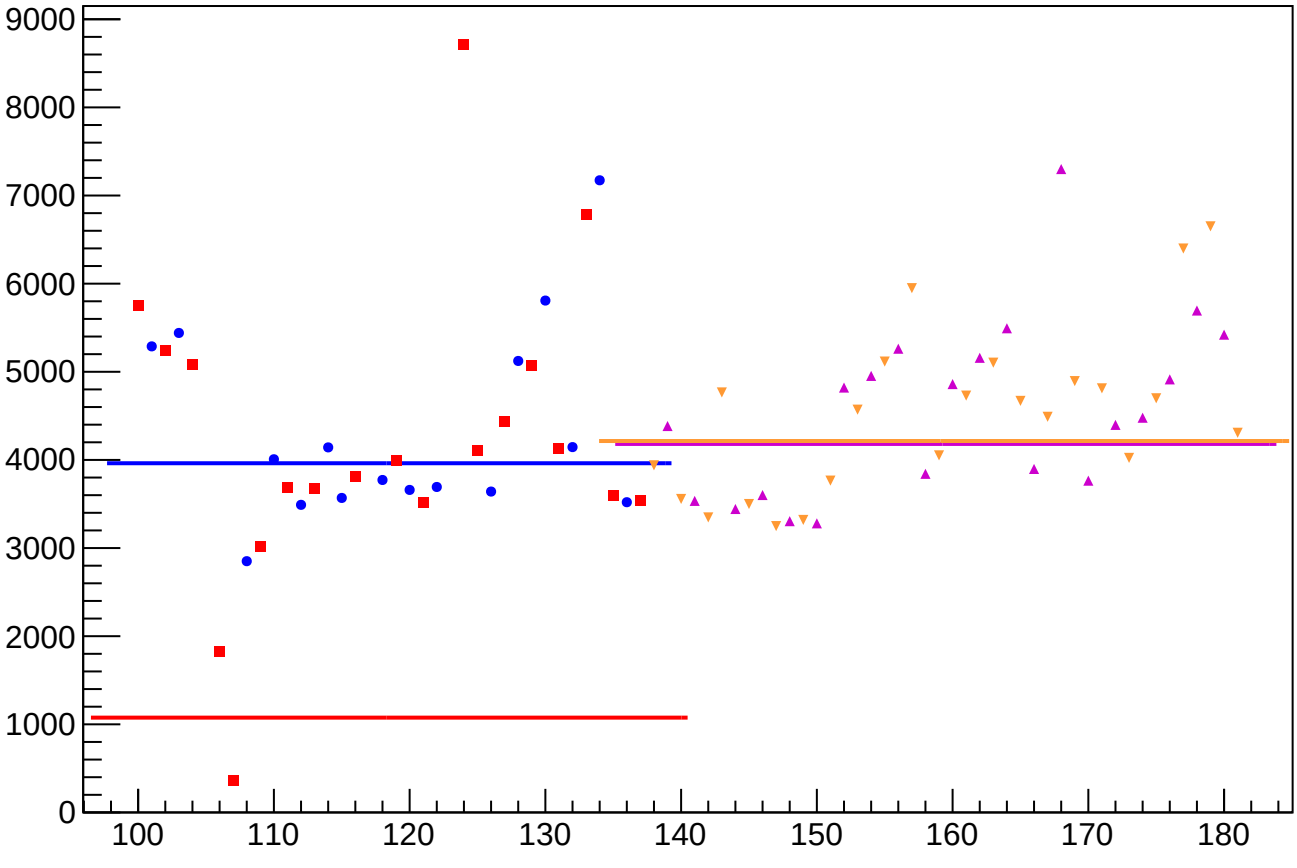
Left: -171.232+/-721.104 $\chi^2$/NDF: 38.9/43

Right: 599.419+/-603.751 $\chi^2$/NDF: 30.8/34

In: 284.284+/-851.690 $\chi^2$/NDF:27.6/36

Out: 280.794+/-551.495 $\chi^2$/NDF:42.8/41

All: 281.825+/-462.919 $\chi^2$/NDF: 70.4/78




Right In: 3962.368+/-1.069 $\chi^2$/NDF: 668339.6/15

Left Out: 4214.443+/-0.714 $\chi^2$/NDF:1269099.7/22

Right Out: 1075.957+/-0.466 $\chi^2$/NDF: 9558372.9/18

Left In: 4181.421+/-0.729 $\chi^2$/NDF:1342784.0/20

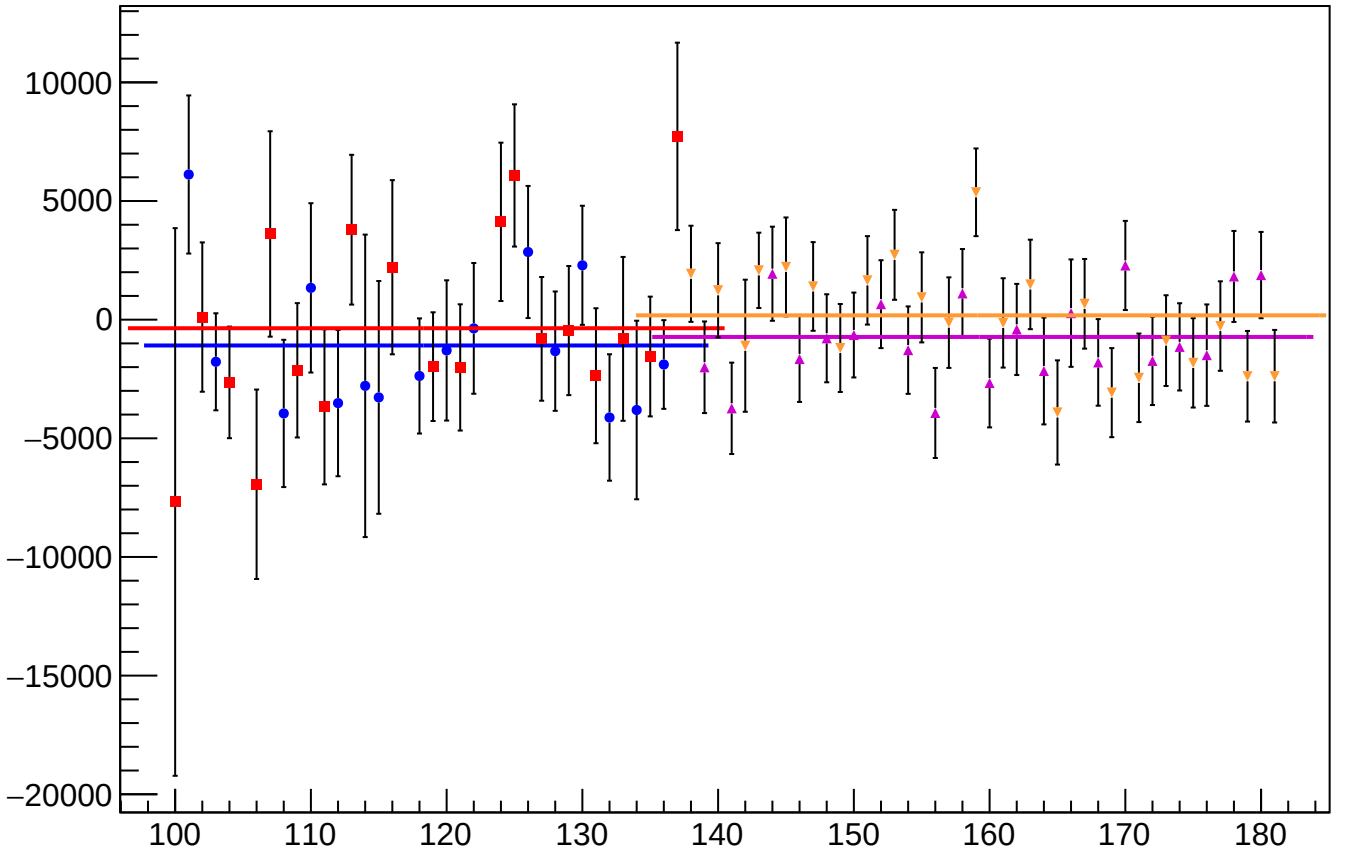
Left: 4198.279+/-0.510 $\chi^2$/NDF: 2612931.8/43

Right: 1536.045+/-0.427 $\chi^2$/NDF: 16351680.6/34

In: 4111.938+/-0.602 $\chi^2$/NDF:2039777.9/36

Out: 2013.147+/-0.390 $\chi^2$/NDF:24393487.7/41

All: 2633.182+/-0.327 $\chi^2$/NDF: 34990478.5/7




Right In: -1087.736+/-699.579 $\chi^2$/NDF: 13.2/15

Left Out: 182.077+/-400.361 $\chi^2$/NDF:29.2/22

Right Out: -361.223+/-699.665 $\chi^2$/NDF: 20.8/18

Left In: -728.778+/-416.589 $\chi^2$/NDF:18.3/20

Left: -255.265+/-288.665 $\chi^2$/NDF: 50.0/43

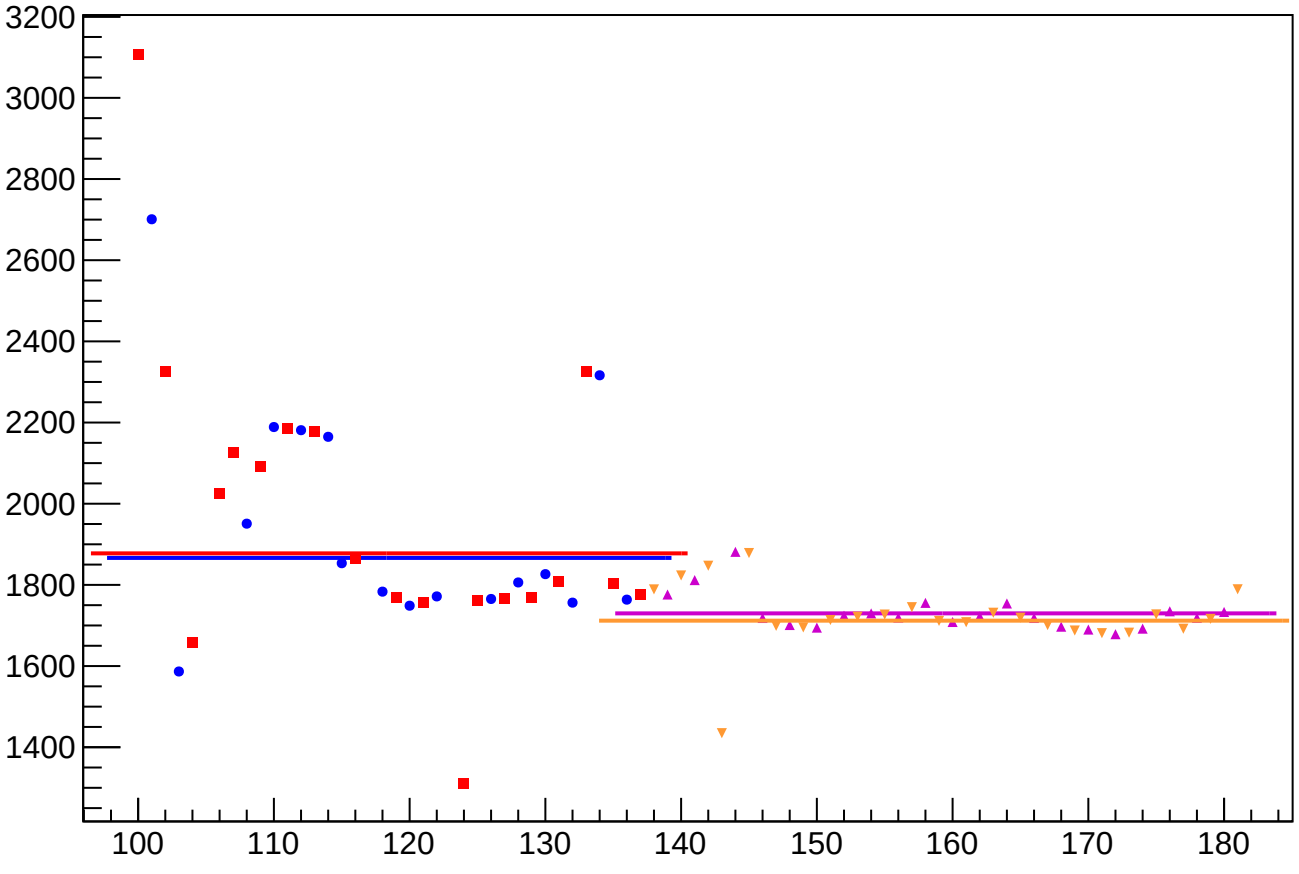
Right: -724.524+/-494.707 $\chi^2$/NDF: 34.5/34

In: -822.744+/-357.933 $\chi^2$/NDF:31.7/36

Out: 48.063+/-347.493 $\chi^2$/NDF:50.5/41

All: -374.456+/-249.324 $\chi^2$/NDF: 85.2/78

# eigen_dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1866.456+/-0.495 $\chi^2$/NDF: 256262.3/15

Left Out: 1711.858+/-0.283 $\chi^2$/NDF:93890.2/22

Right Out: 1877.659+/-0.494 $\chi^2$/NDF: 251850.8/18

Left In: 1729.808+/-0.295 $\chi^2$/NDF:22833.1/20

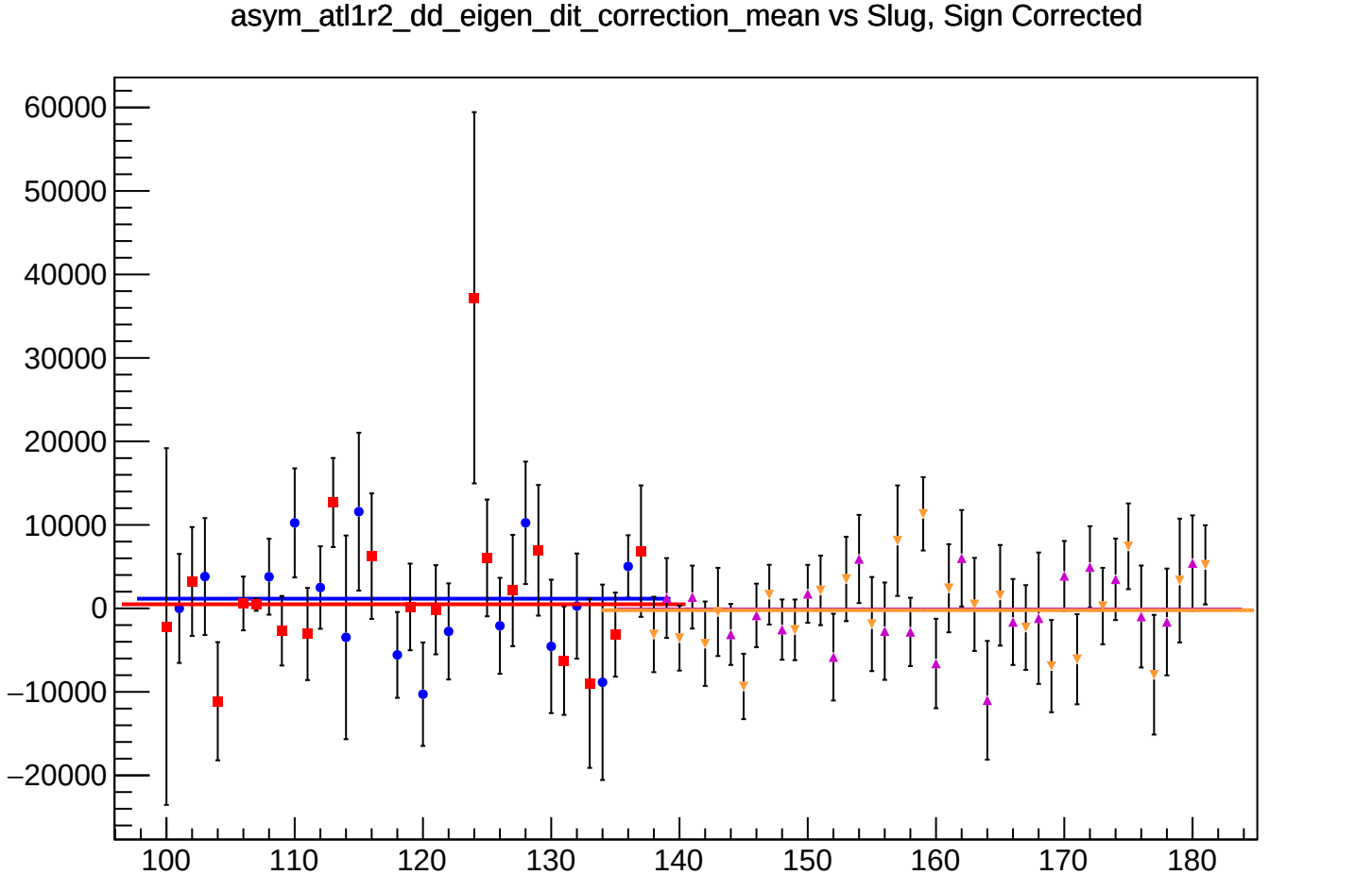
Left: 1720.477+/-0.204 $\chi^2$/NDF: 118653.6/43

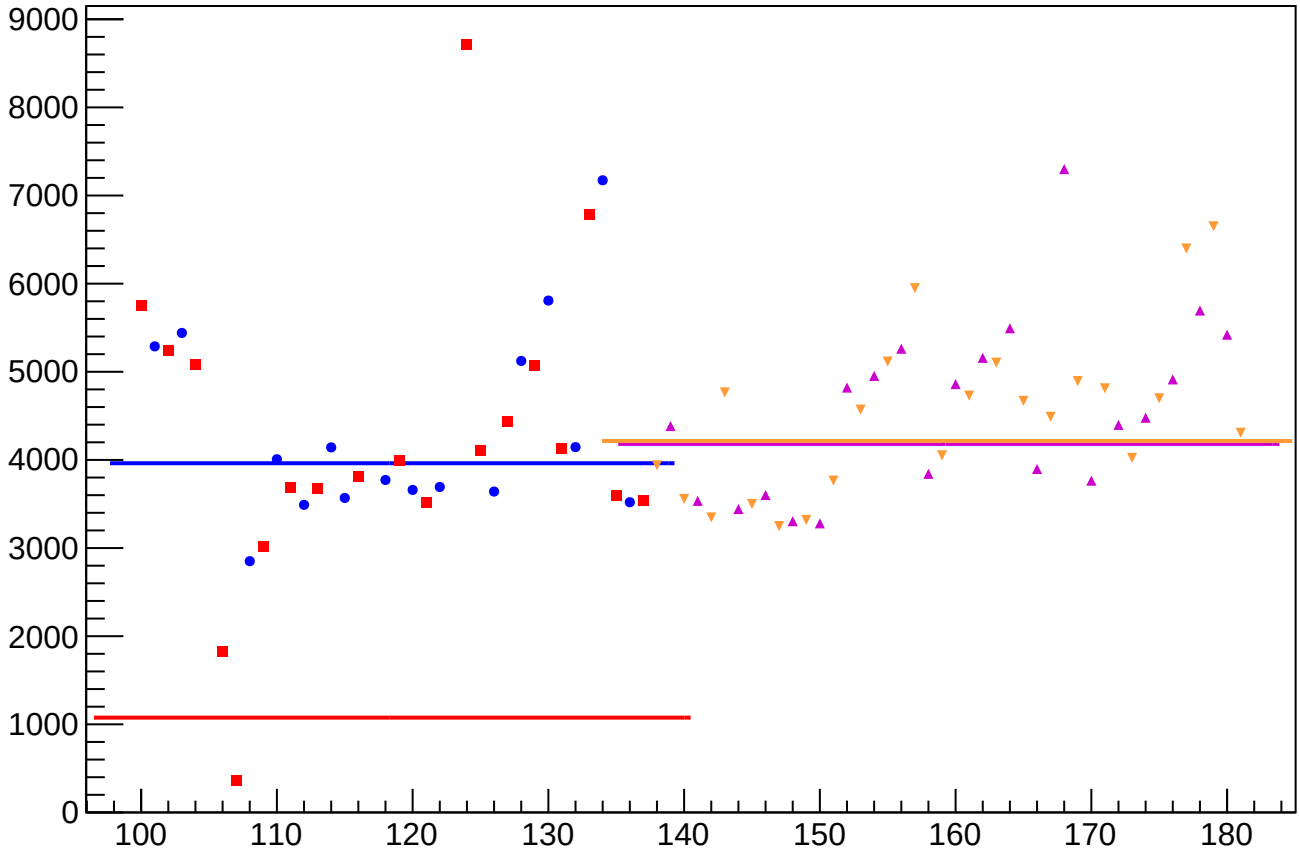
Right: 1872.061+/-0.350 $\chi^2$/NDF: 508369.7/34

In: 1765.579+/-0.253 $\chi^2$/NDF:335426.3/36

Out: 1752.807+/-0.246 $\chi^2$/NDF:430454.1/41

All: 1759.003+/-0.176 $\chi^2$/NDF: 767191.7/78


asym_atl1r2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
60000
50000
40000
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: 1161.104+/-1512.222 χ²/NDF: 13.7/15
Left Out: -217.424+/-1009.227 χ²/NDF:25.5/22
Right Out: 492.914+/-658.521 χ²/NDF: 16.9/18
Left In: -123.053+/-1030.706 χ²/NDF:13.4/20
Left: -171.232+/-721.105 χ²/NDF: 38.9/43
Right: 599.426+/-603.759 χ²/NDF: 30.8/34
In: 284.280+/-851.690 χ²/NDF:27.6/36
Out: 280.794+/-551.502 χ²/NDF:42.8/41
All: 281.824+/-462.923 χ²/NDF: 70.4/78




Right In: 3962.361+/-1.069 $\chi^2$/NDF: 668335.9/15

Left Out: 4214.449+/-0.714 $\chi^2$/NDF:1269102.0/22

Right Out: 1075.988+/-0.466 $\chi^2$/NDF: 9558243.3/18

Left In: 4181.427+/-0.729 $\chi^2$/NDF:1342789.0/20

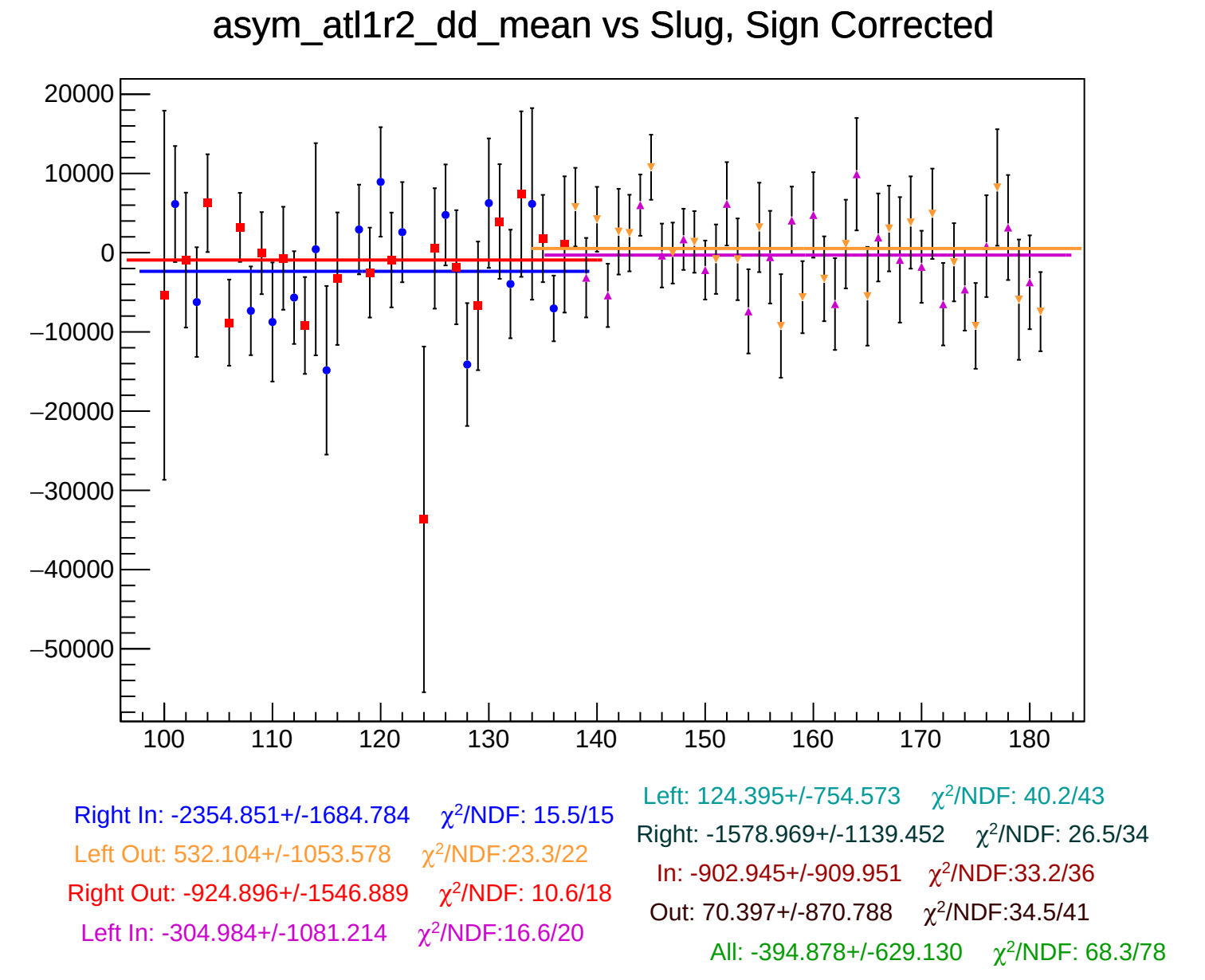
Left: 4198.285+/-0.510 $\chi^2$/NDF: 2612939.1/43

Right: 1536.084+/-0.427 $\chi^2$/NDF: 16351375.7/34

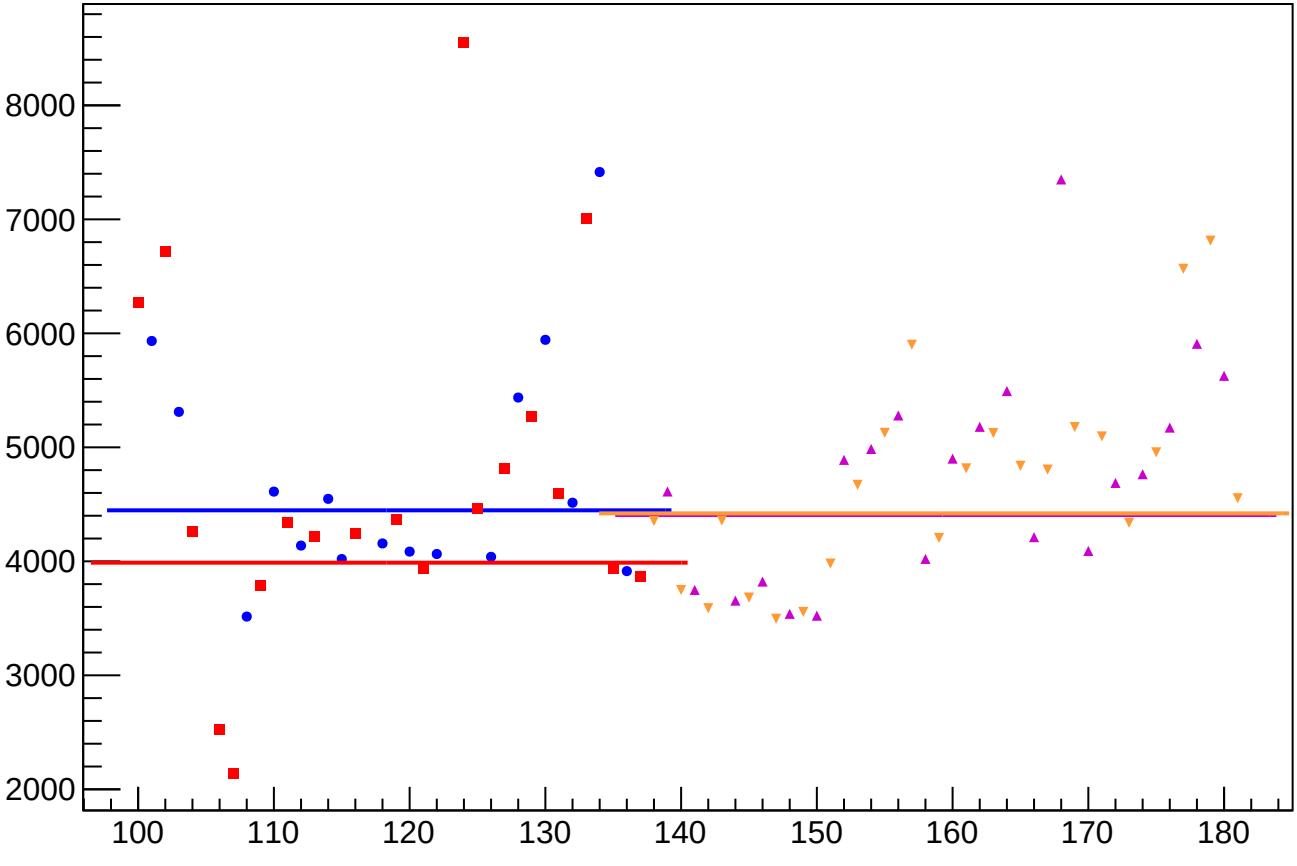
In: 4111.939+/-0.602 $\chi^2$/NDF:2039782.6/36

Out: 2013.190+/-0.390 $\chi^2$/NDF:24392984.7/41

All: 2633.223+/-0.327 $\chi^2$/NDF: 34989578.1/7


asym_atl1r2_dd_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
−40000
−50000
100
110
120
130
140
150
160
170
180
Right In: -2354.851+/-1684.784 χ²/NDF: 15.5/15
Left Out: 532.104+/-1053.578 χ²/NDF:23.3/22
Right Out: -924.896+/-1546.889 χ²/NDF: 10.6/18
Left In: -304.984+/-1081.214 χ²/NDF:16.6/20
Left: 124.395+/-754.573 χ²/NDF: 40.2/43
Right: -1578.969+/-1139.452 χ²/NDF: 26.5/34
In: -902.945+/-909.951 χ²/NDF:33.2/36
Out: 70.397+/-870.788 χ²/NDF:34.5/41
All: -394.878+/-629.130 χ²/NDF: 68.3/78

# asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 4447.424+/-1.191 $\chi^2$/NDF: 458251.2/15

Left Out: 4420.820+/-0.745 $\chi^2$/NDF:1057825.2/22

Right Out: 3988.249+/-1.083 $\chi^2$/NDF: 1143932.4/18

Left In: 4406.321+/-0.765 $\chi^2$/NDF:1108955.6/20

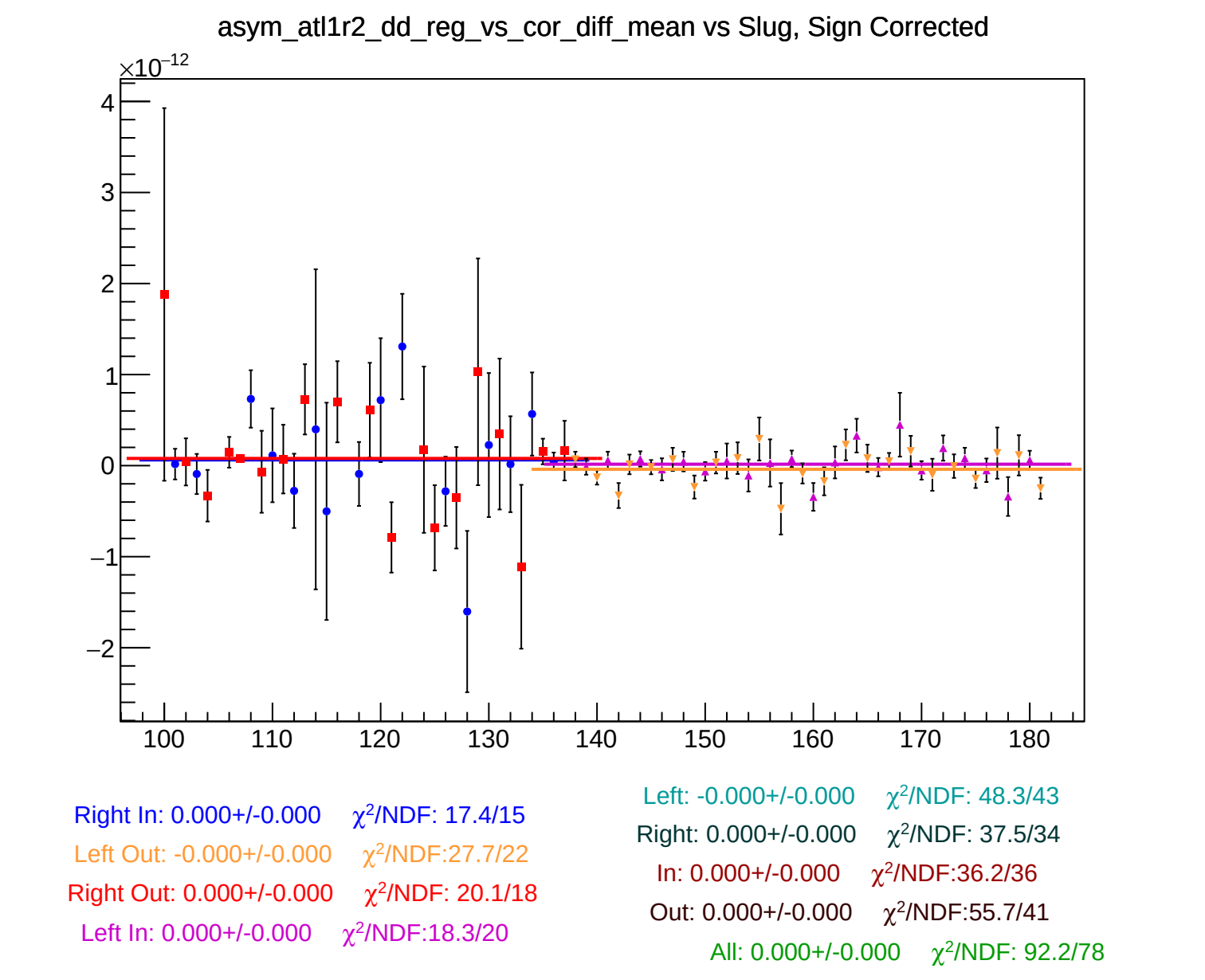
Left: 4413.758+/-0.534 $\chi^2$/NDF: 2166965.2/43

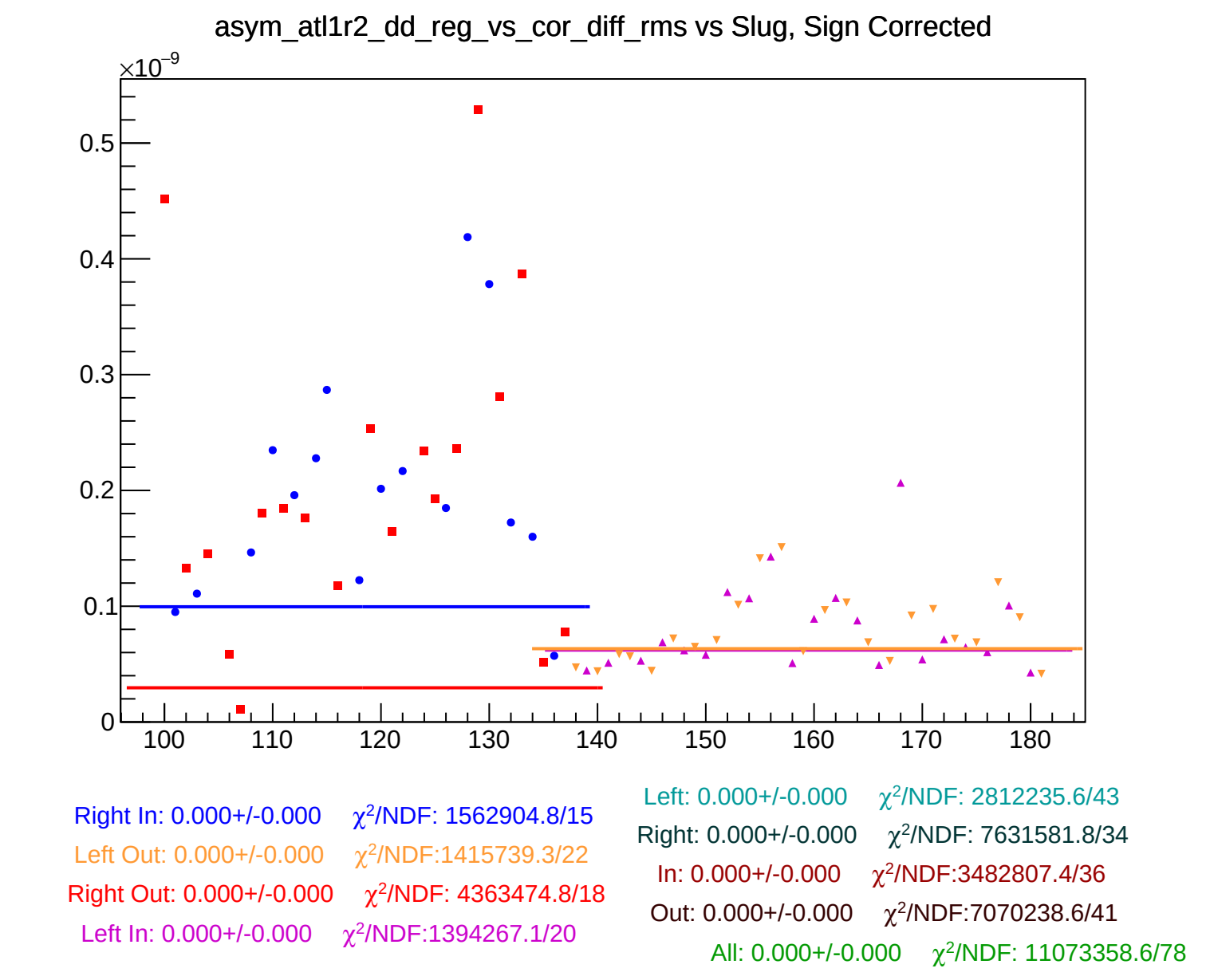
Right: 4196.010+/-0.801 $\chi^2$/NDF: 1683524.5/34

In: 4418.311+/-0.643 $\chi^2$/NDF:1568049.9/36

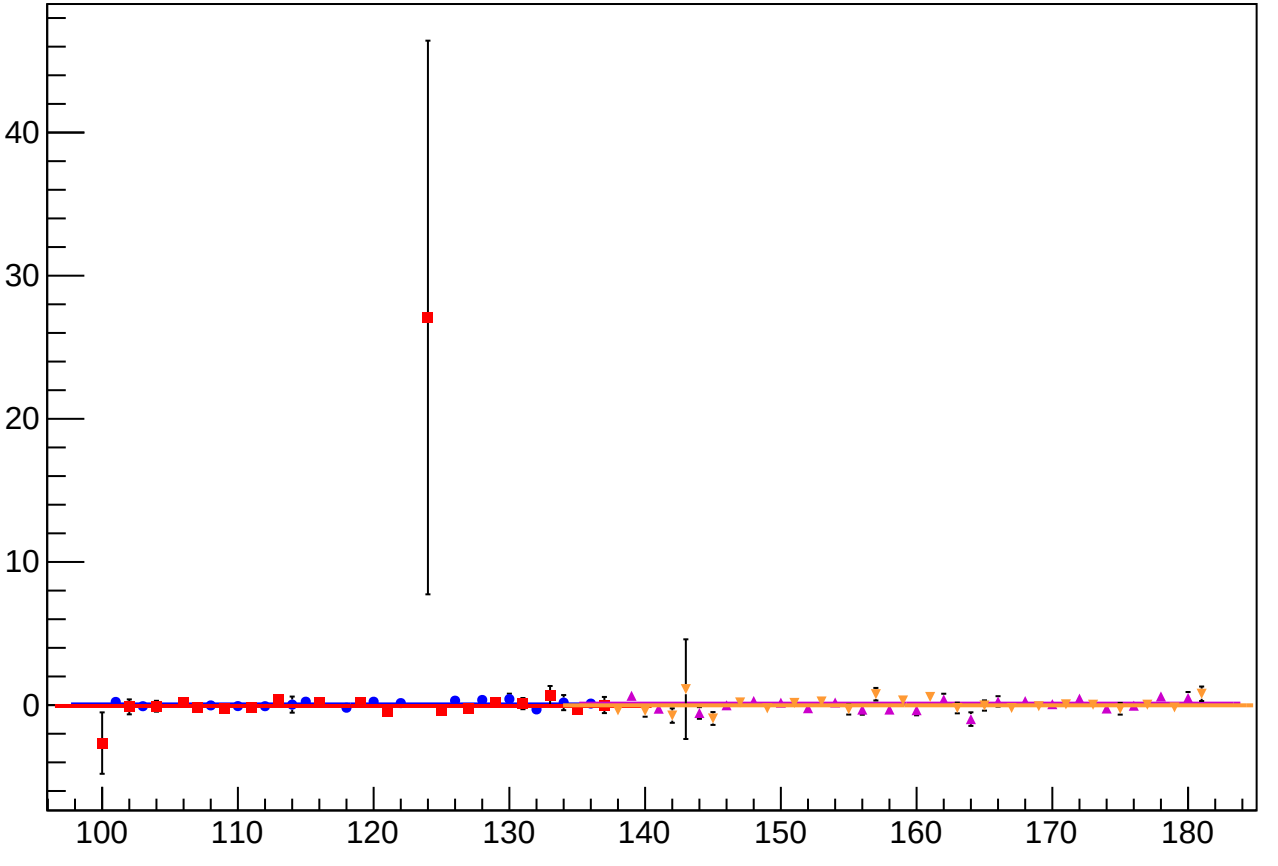
Out: 4281.870+/-0.614 $\chi^2$/NDF:2310053.3/41

All: 4346.875+/-0.444 $\chi^2$/NDF: 3901646.1/78


asym_atl1r2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 17.4/15
Left Out: -0.000+/-0.000 χ²/NDF:27.7/22
Right Out: 0.000+/-0.000 χ²/NDF: 20.1/18
Left In: 0.000+/-0.000 χ²/NDF:18.3/20
Left: -0.000+/-0.000 χ²/NDF: 48.3/43
Right: 0.000+/-0.000 χ²/NDF: 37.5/34
In: 0.000+/-0.000 χ²/NDF:36.2/36
Out: 0.000+/-0.000 χ²/NDF:55.7/41
All: 0.000+/-0.000 χ²/NDF: 92.2/78


asym_atl1r2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1562904.8/15
Left Out: 0.000+/-0.000 χ²/NDF:1415739.3/22
Right Out: 0.000+/-0.000 χ²/NDF: 4363474.8/18
Left In: 0.000+/-0.000 χ²/NDF:1394267.1/20
Left: 0.000+/-0.000 χ²/NDF: 2812235.6/43
Right: 0.000+/-0.000 χ²/NDF: 7631581.8/34
In: 0.000+/-0.000 χ²/NDF:3482807.4/36
Out: 0.000+/-0.000 χ²/NDF:7070238.6/41
All: 0.000+/-0.000 χ²/NDF: 11073358.6/78

asym_atl1r2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.015+/-0.063 $\chi^2$/NDF:22.6/22

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.102+/-0.064 $\chi^2$/NDF:31.0/20

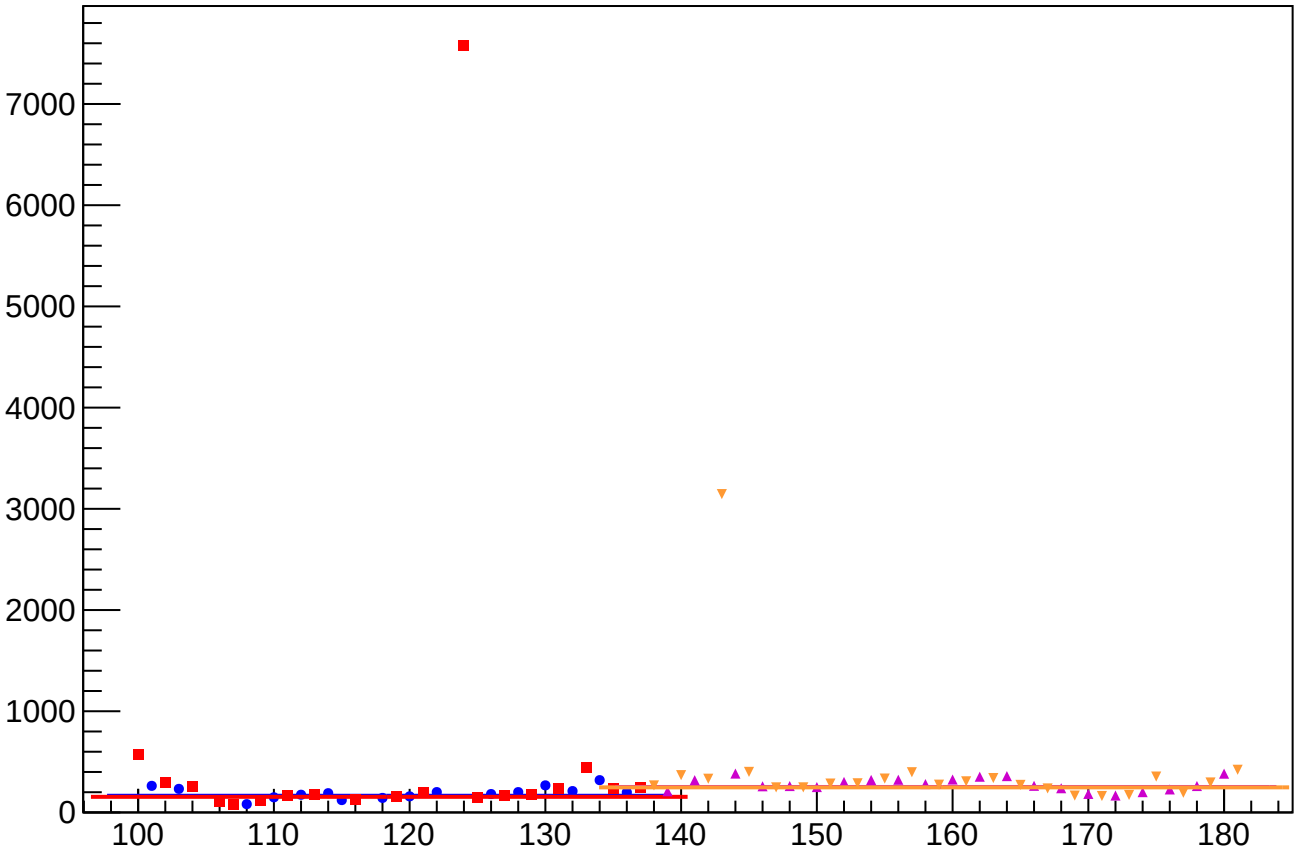
Left: 0.042+/-0.045 $\chi^2$/NDF: 55.4/43

Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.076+/-0.046 $\chi^2$/NDF:39.0/36

Out: -0.038+/-0.045 $\chi^2$/NDF:41.3/41

All: 0.018+/-0.032 $\chi^2$/NDF: 83.4/78




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474718.1/15

Left Out: 248.015+/-0.044 $\chi^2$/NDF:4068404.4/22

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921322.6/18

Left In: 251.670+/-0.045 $\chi^2$/NDF:1842584.6/20

Left: 249.815+/-0.032 $\chi^2$/NDF: 5914319.0/43

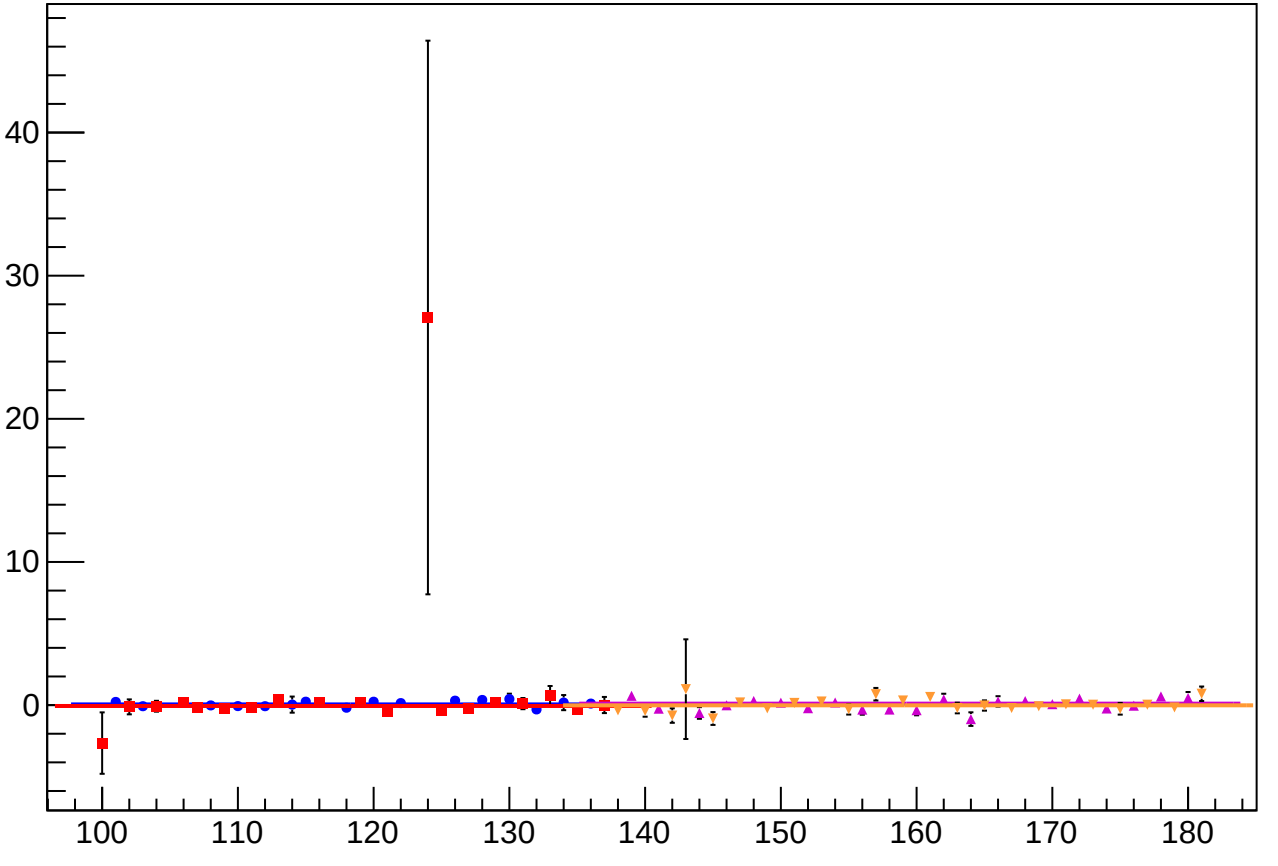
Right: 159.465+/-0.033 $\chi^2$/NDF: 3421679.3/34

In: 209.991+/-0.033 $\chi^2$/NDF:5094044.5/36

Out: 202.344+/-0.032 $\chi^2$/NDF:8154735.9/41

All: 206.081+/-0.023 $\chi^2$/NDF: 13277026.3/78

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.015+/-0.063 $\chi^2$/NDF:22.6/22

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.102+/-0.064 $\chi^2$/NDF:31.0/20

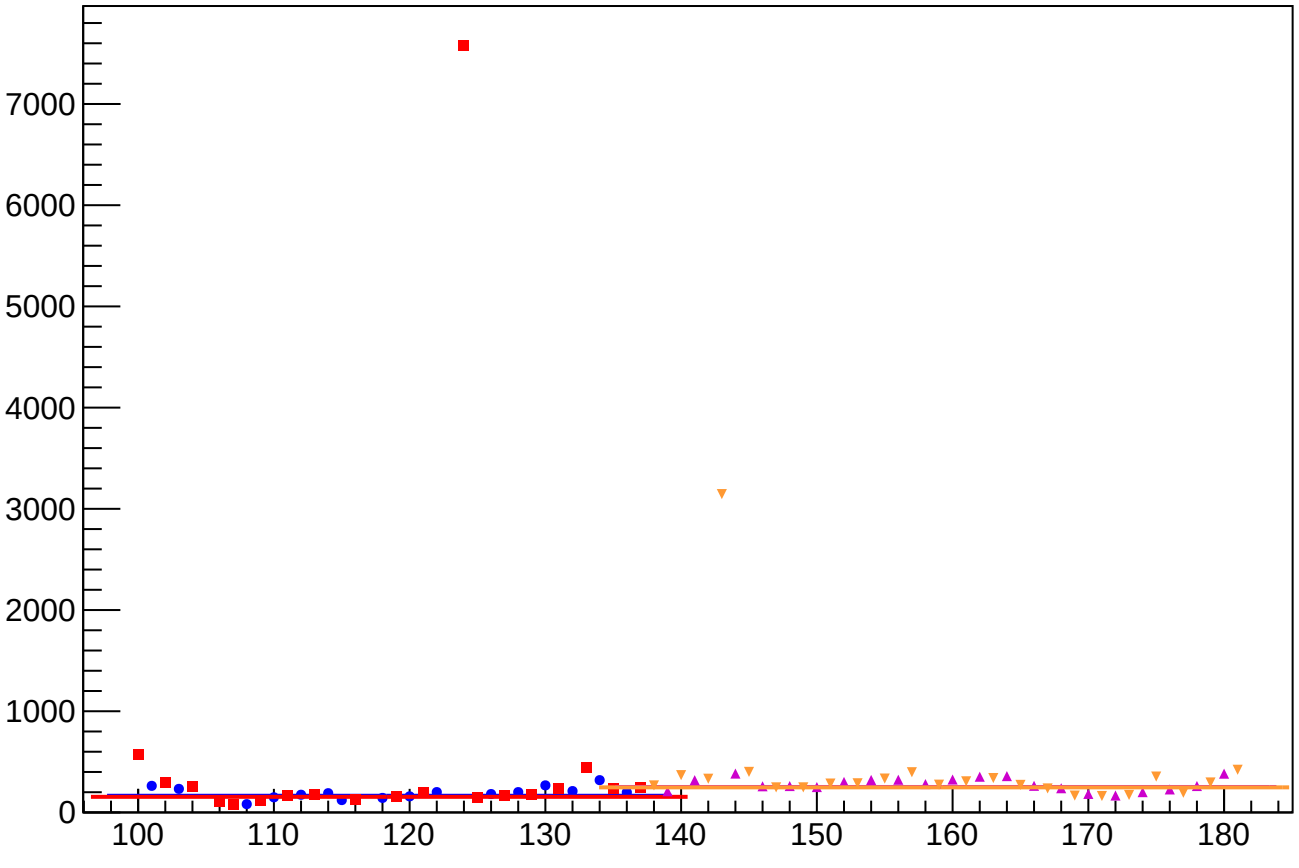
Left: 0.042+/-0.045 $\chi^2$/NDF: 55.4/43

Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.076+/-0.046 $\chi^2$/NDF:39.0/36

Out: -0.038+/-0.045 $\chi^2$/NDF:41.3/41

All: 0.018+/-0.032 $\chi^2$/NDF: 83.4/78




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474718.1/15

Left Out: 248.015+/-0.044 $\chi^2$/NDF:4068404.4/22

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921322.6/18

Left In: 251.670+/-0.045 $\chi^2$/NDF:1842584.6/20

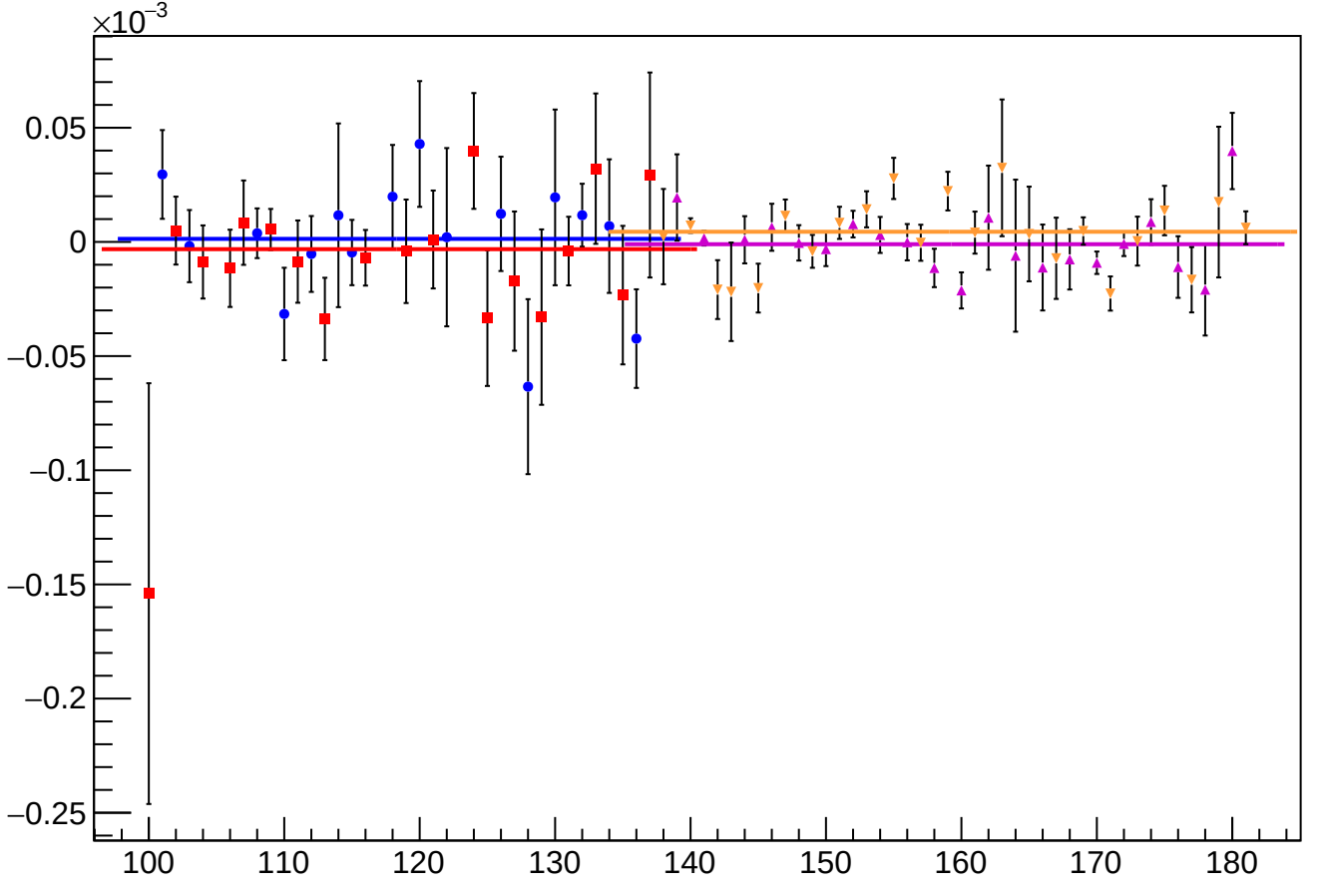
Left: 249.815+/-0.032 $\chi^2$/NDF: 5914319.0/43

Right: 159.465+/-0.033 $\chi^2$/NDF: 3421679.3/34

In: 209.991+/-0.033 $\chi^2$/NDF:5094044.5/36

Out: 202.344+/-0.032 $\chi^2$/NDF:8154735.9/41

All: 206.081+/-0.023 $\chi^2$/NDF: 13277026.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:44.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.1/20

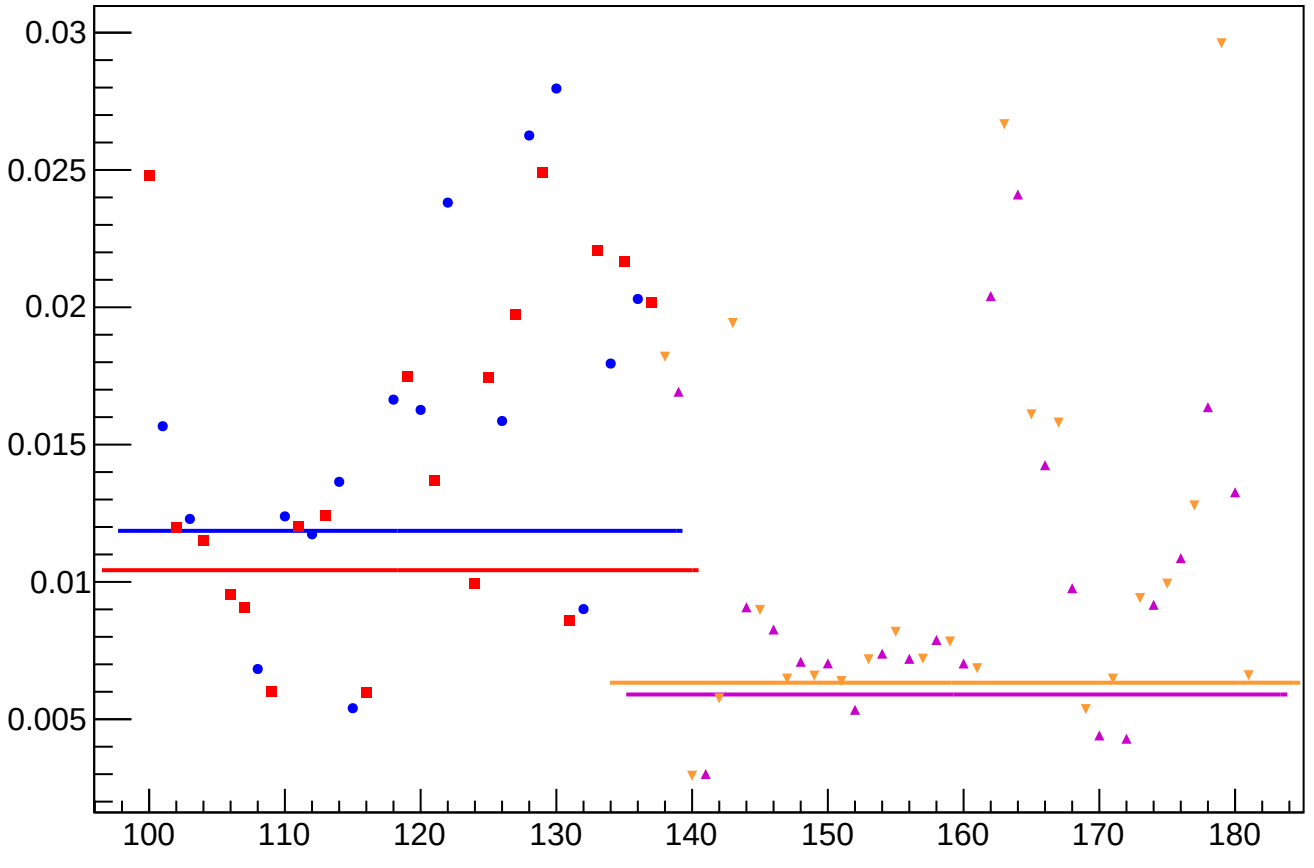
Left: 0.000+/-0.000 $\chi^2$/NDF: 75.1/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:41.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:62.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 107.0/78




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2407192.9/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:7717910.0/22

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 2355101.8/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:6748138.2/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 14530058.1/43

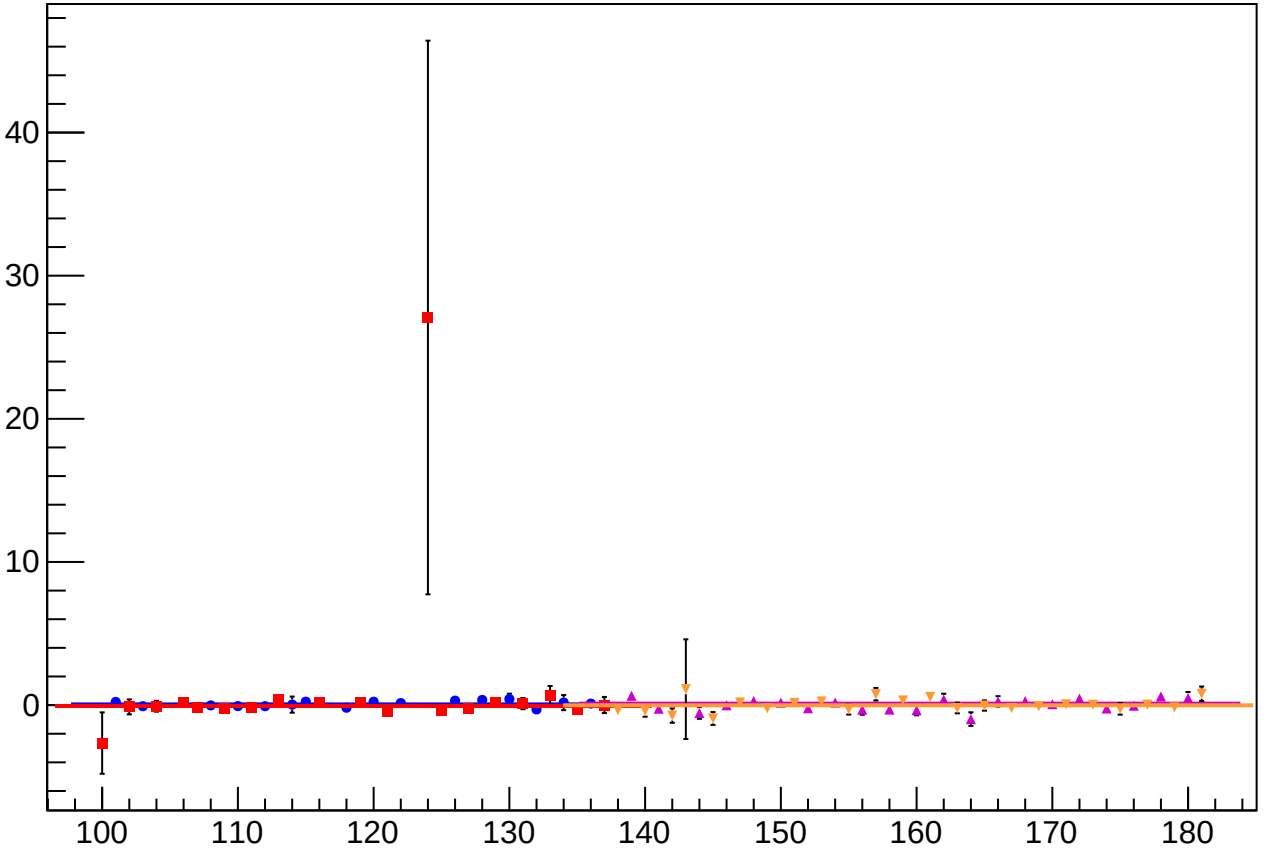
Right: 0.011+/-0.000 $\chi^2$/NDF: 4860752.3/34

In: 0.007+/-0.000 $\chi^2$/NDF:11827718.8/36

Out: 0.007+/-0.000 $\chi^2$/NDF:11678670.4/41

All: 0.007+/-0.000 $\chi^2$/NDF: 23561755.1/78

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.015+/-0.063 $\chi^2$/NDF:22.6/22

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.102+/-0.064 $\chi^2$/NDF:31.0/20

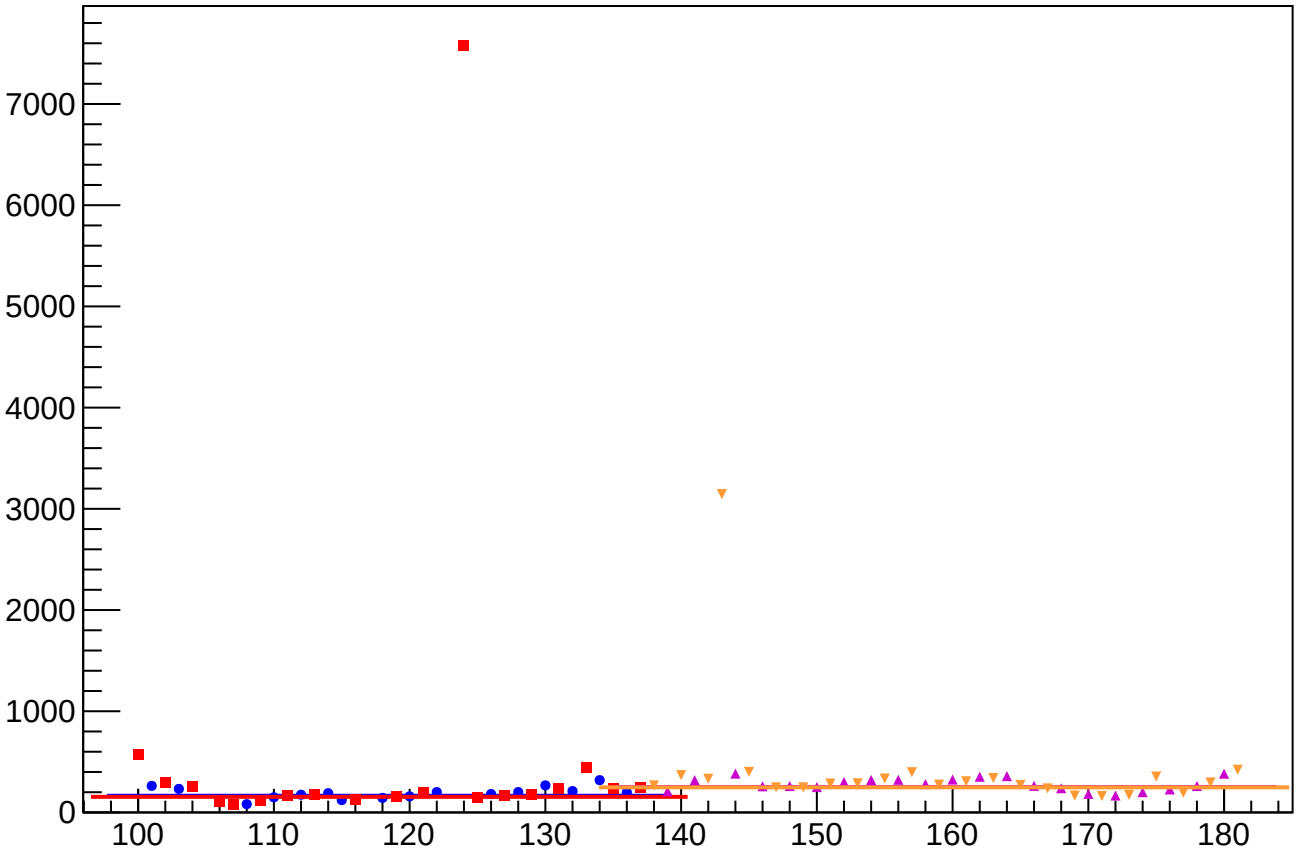
Left: 0.042+/-0.045 $\chi^2$/NDF: 55.4/43

Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.076+/-0.046 $\chi^2$/NDF:39.0/36

Out: -0.038+/-0.045 $\chi^2$/NDF:41.3/41

All: 0.018+/-0.032 $\chi^2$/NDF: 83.4/78




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474692.6/15

Left Out: 248.017+/-0.044 $\chi^2$/NDF:4068504.1/22

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921346.3/18

Left In: 251.672+/-0.045 $\chi^2$/NDF:1842625.7/20

Left: 249.817+/-0.032 $\chi^2$/NDF: 5914461.3/43

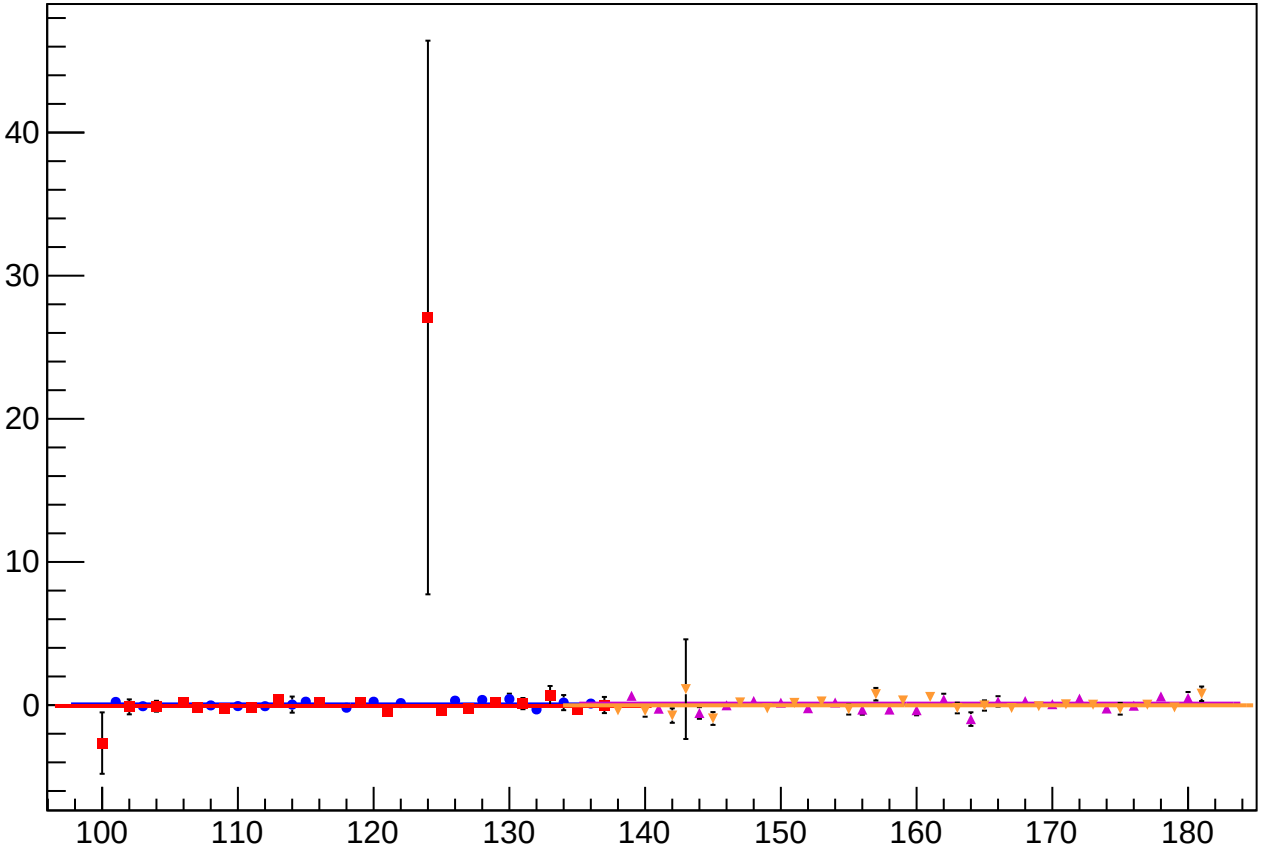
Right: 159.464+/-0.033 $\chi^2$/NDF: 3421678.1/34

In: 209.992+/-0.033 $\chi^2$/NDF:5094152.8/36

Out: 202.344+/-0.032 $\chi^2$/NDF:8154929.2/41

All: 206.081+/-0.023 $\chi^2$/NDF: 13277330.1/78

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.015+/-0.063 $\chi^2$/NDF:22.6/22

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.102+/-0.064 $\chi^2$/NDF:31.0/20

Left: 0.042+/-0.045 $\chi^2$/NDF: 55.4/43

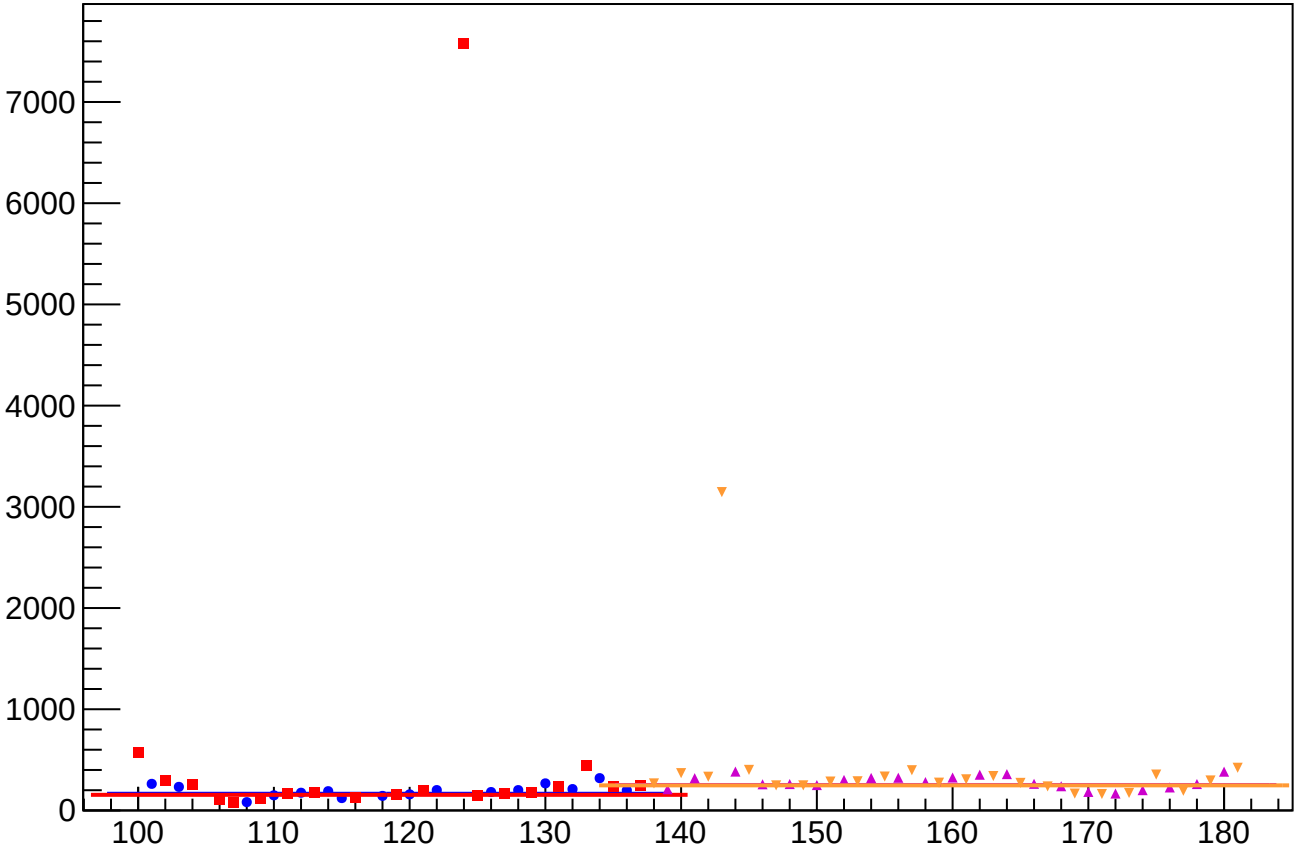
Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.076+/-0.046 $\chi^2$/NDF:39.0/36

Out: -0.038+/-0.045 $\chi^2$/NDF:41.3/41

All: 0.018+/-0.032 $\chi^2$/NDF: 83.4/78

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474692.6/15

Left Out: 248.017+/-0.044 $\chi^2$/NDF:4068504.1/22

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921346.3/18

Left In: 251.672+/-0.045 $\chi^2$/NDF:1842625.7/20

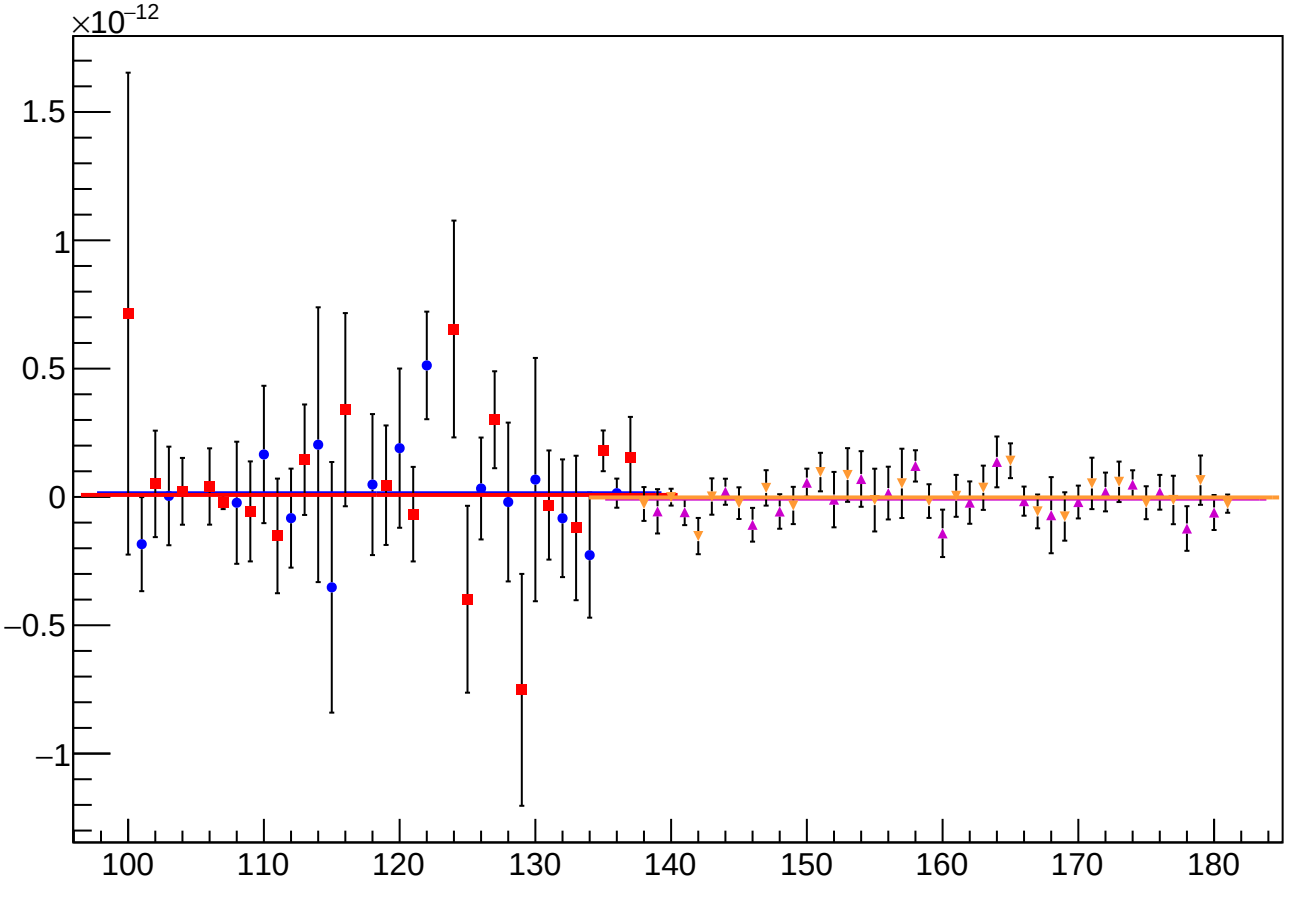
Left: 249.817+/-0.032 $\chi^2$/NDF: 5914461.3/43

Right: 159.464+/-0.033 $\chi^2$/NDF: 3421678.1/34

In: 209.992+/-0.033 $\chi^2$/NDF:5094152.8/36

Out: 202.344+/-0.032 $\chi^2$/NDF:8154929.2/41

All: 206.081+/-0.023 $\chi^2$/NDF: 13277330.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.0/20

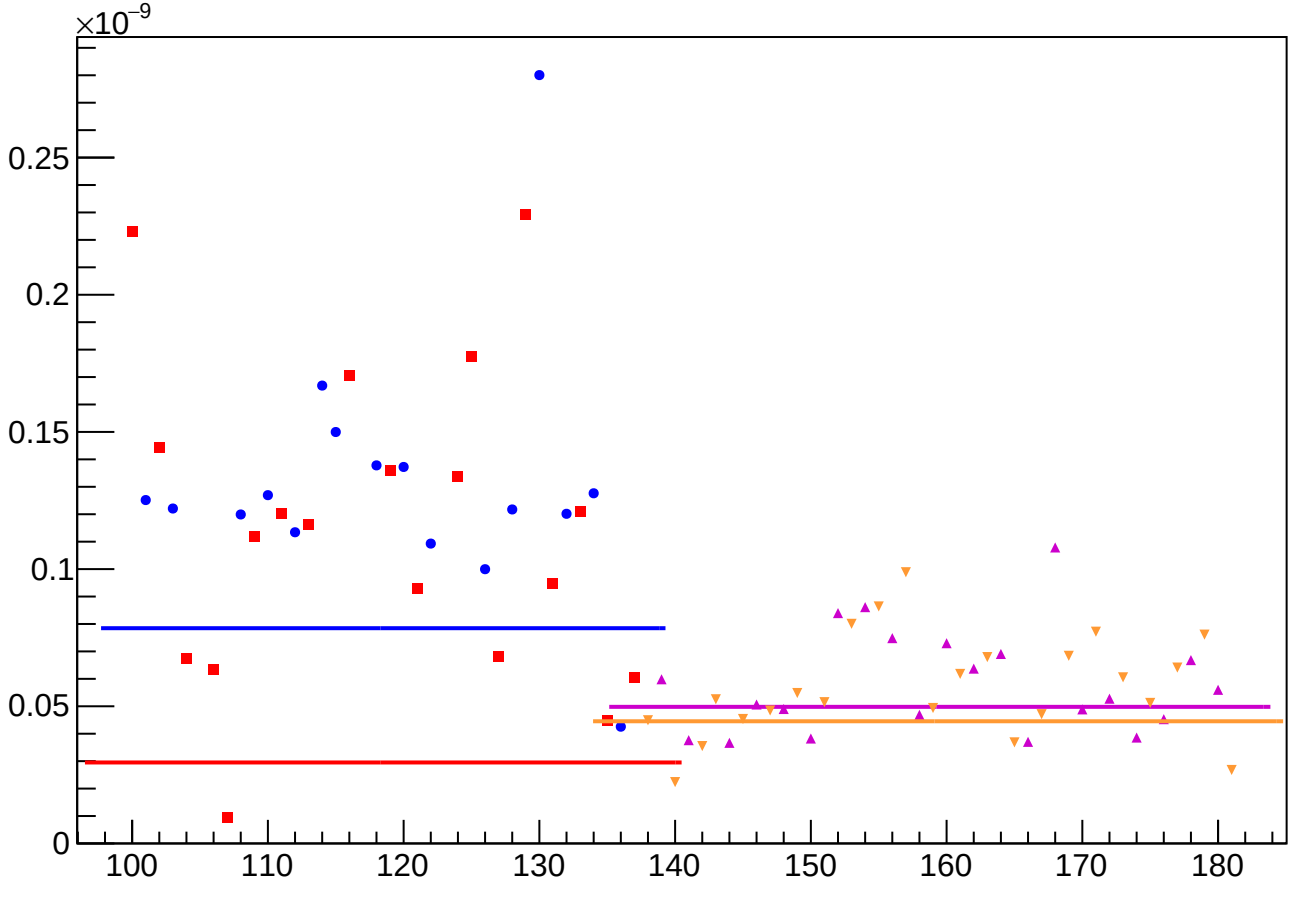
Left: -0.000+/-0.000 $\chi^2$/NDF: 34.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:28.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:34.4/41

All: -0.000+/-0.000 $\chi^2$/NDF: 63.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2103056.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3346915.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5487361.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1768031.8/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 5244714.2/43

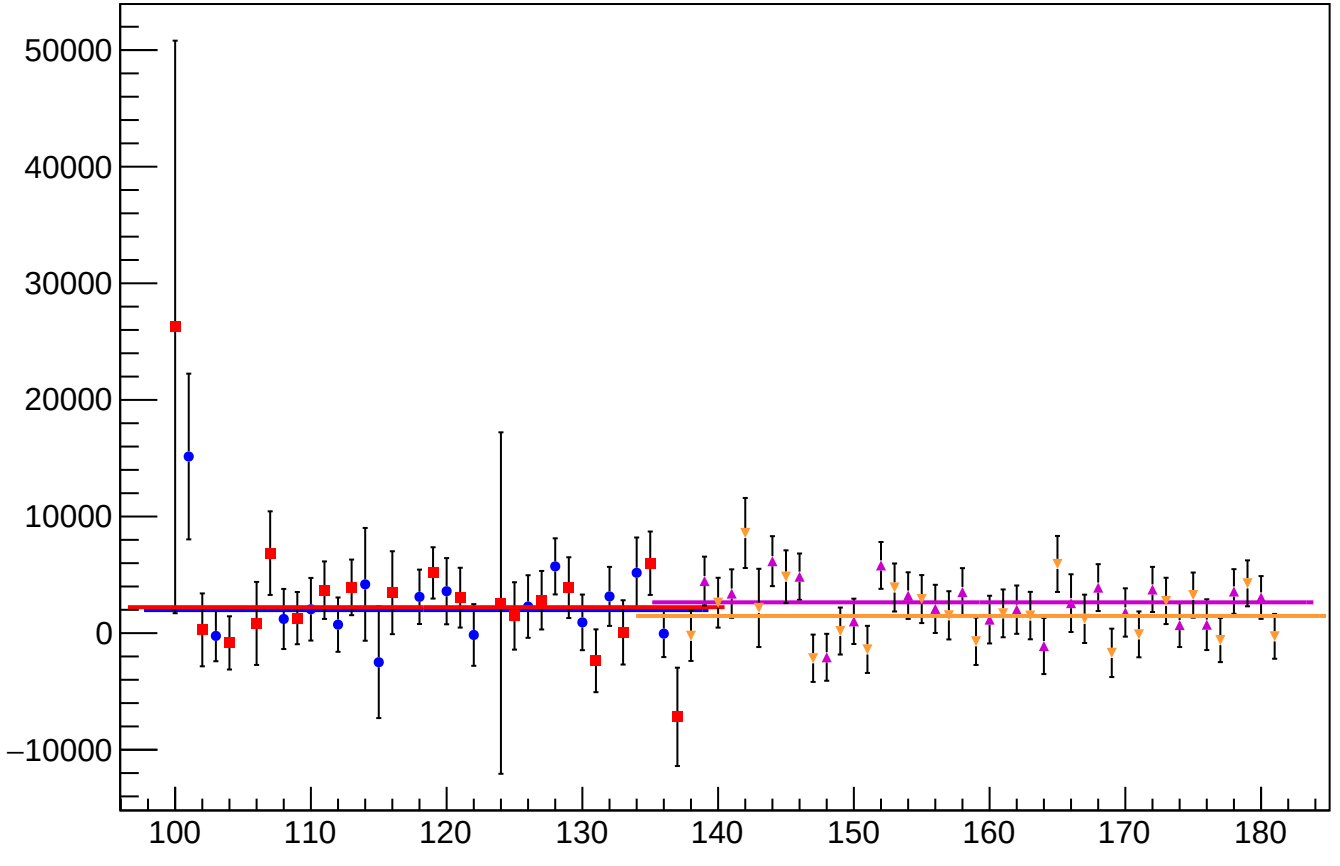
Right: 0.000+/-0.000 $\chi^2$/NDF: 9651358.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:4679469.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:9462216.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15051289.2/78

# reg_asym_atr1l2_avg_mean vs Slug, Sign Corrected




Right In: 1976.299+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 1474.143+/-437.824 $\chi^2$/NDF:29.2/22

Right Out: 2226.171+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 2641.936+/-445.776 $\chi^2$/NDF:19.9/20

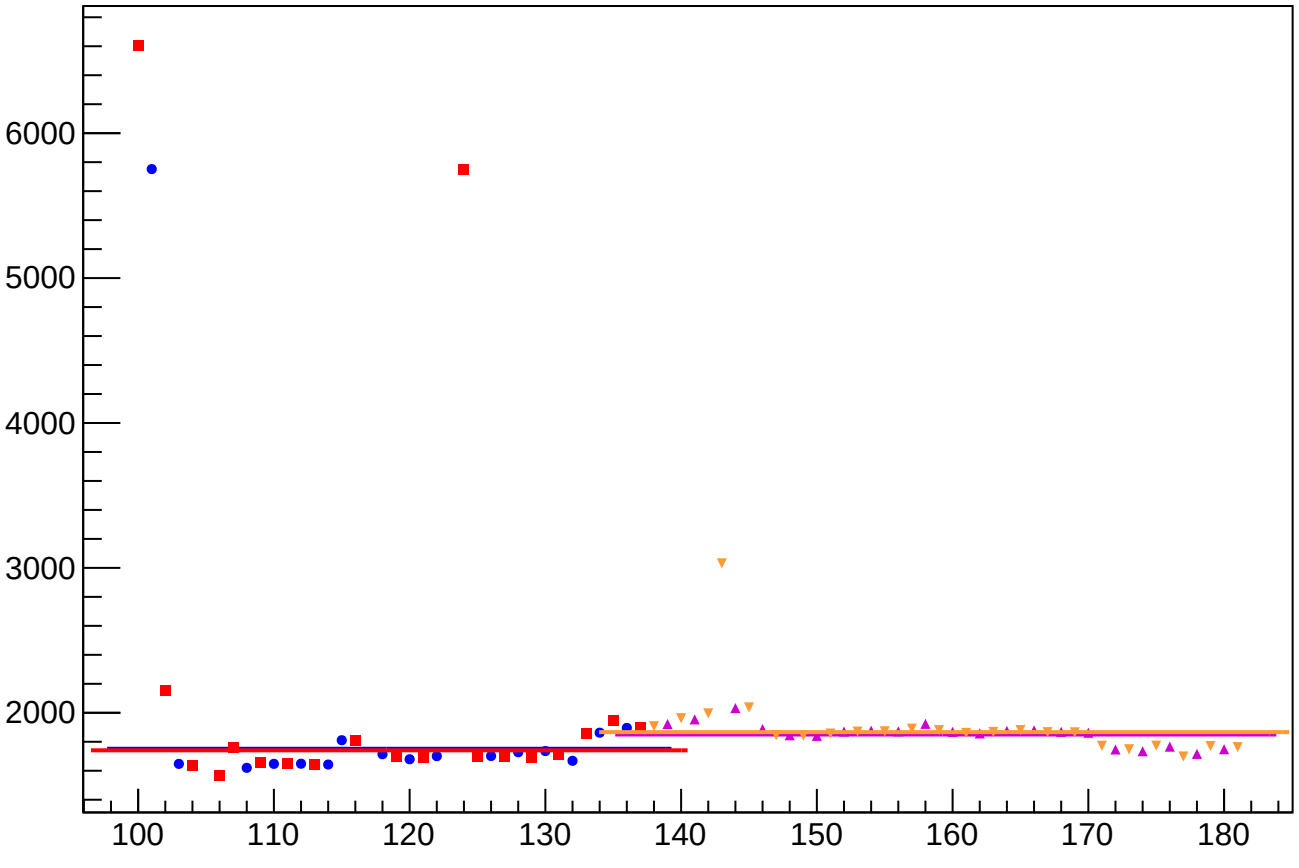
Left: 2047.531+/-312.362 $\chi^2$/NDF: 52.6/43

Right: 2103.390+/-468.051 $\chi^2$/NDF: 31.2/34

In: 2436.720+/-370.745 $\chi^2$/NDF:32.7/36

Out: 1705.756+/-364.215 $\chi^2$/NDF:49.1/41

All: 2064.743+/-259.817 $\chi^2$/NDF: 83.8/78




Right In: 1751.607+/-0.472 $\chi^2$/NDF: 670651.4/15

Left Out: 1866.633+/-0.310 $\chi^2$/NDF:304625.3/22

Right Out: 1741.052+/-0.461 $\chi^2$/NDF: 304655.0/18

Left In: 1849.977+/-0.315 $\chi^2$/NDF:59044.1/20

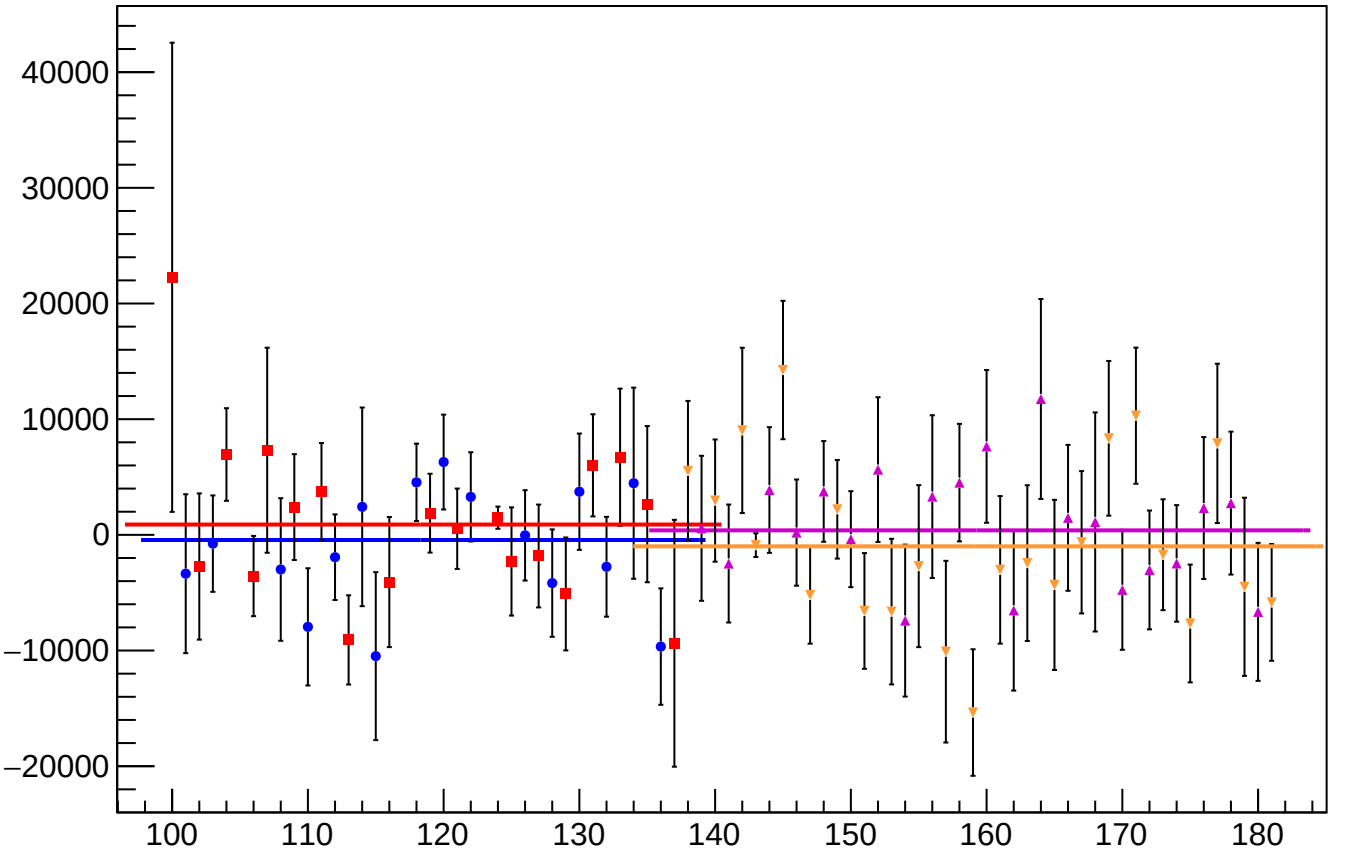
Left: 1858.455+/-0.221 $\chi^2$/NDF: 365090.7/43

Right: 1746.199+/-0.330 $\chi^2$/NDF: 975562.4/34

In: 1819.649+/-0.262 $\chi^2$/NDF:759721.6/36

Out: 1827.560+/-0.257 $\chi^2$/NDF:660476.3/41

All: 1823.684+/-0.184 $\chi^2$/NDF: 1420662.3/78




Right In: -444.273+/-1174.448 $\chi^2$/NDF: 15.9/15

Left Out: -991.409+/-786.579 $\chi^2$/NDF:32.6/22

Right Out: 892.237+/-725.737 $\chi^2$/NDF: 20.1/18

Left In: 389.724+/-1237.830 $\chi^2$/NDF:11.7/20

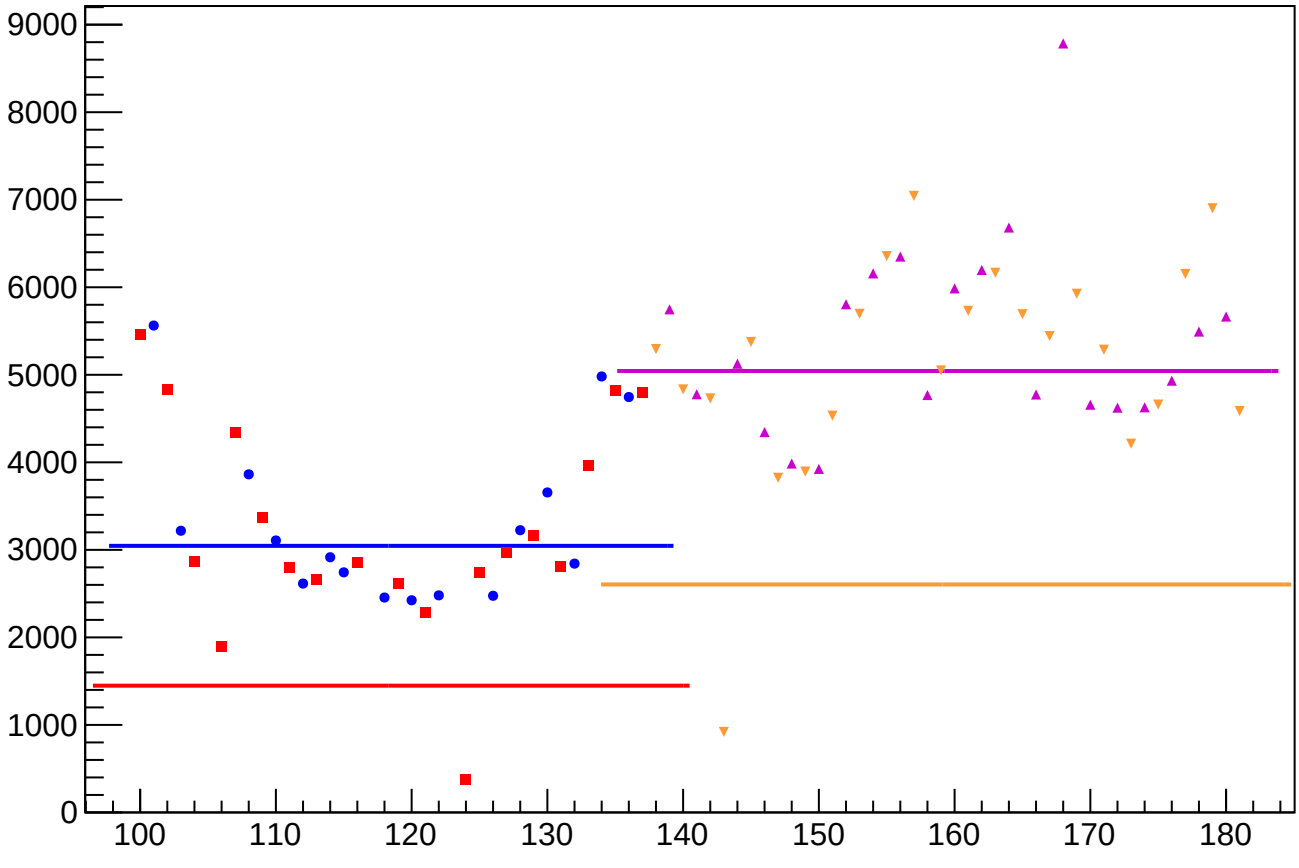
Left: -594.131+/-663.881 $\chi^2$/NDF: 45.2/43

Right: 522.917+/-617.375 $\chi^2$/NDF: 36.9/34

In: -49.172+/-851.986 $\chi^2$/NDF:27.8/36

Out: 26.073+/-533.387 $\chi^2$/NDF:55.8/41

All: 4.885+/-452.098 $\chi^2$/NDF: 83.7/78




Right In: 3045.917+/-0.830 $\chi^2$/NDF: 907385.5/15

Left Out: 2604.629+/-0.556 $\chi^2$/NDF:14269445.1/22

Right Out: 1448.519+/-0.513 $\chi^2$/NDF: 6786925.8/18

Left In: 5043.593+/-0.875 $\chi^2$/NDF:1058100.4/20

Left: 3306.188+/-0.469 $\chi^2$/NDF: 20858685.2/43

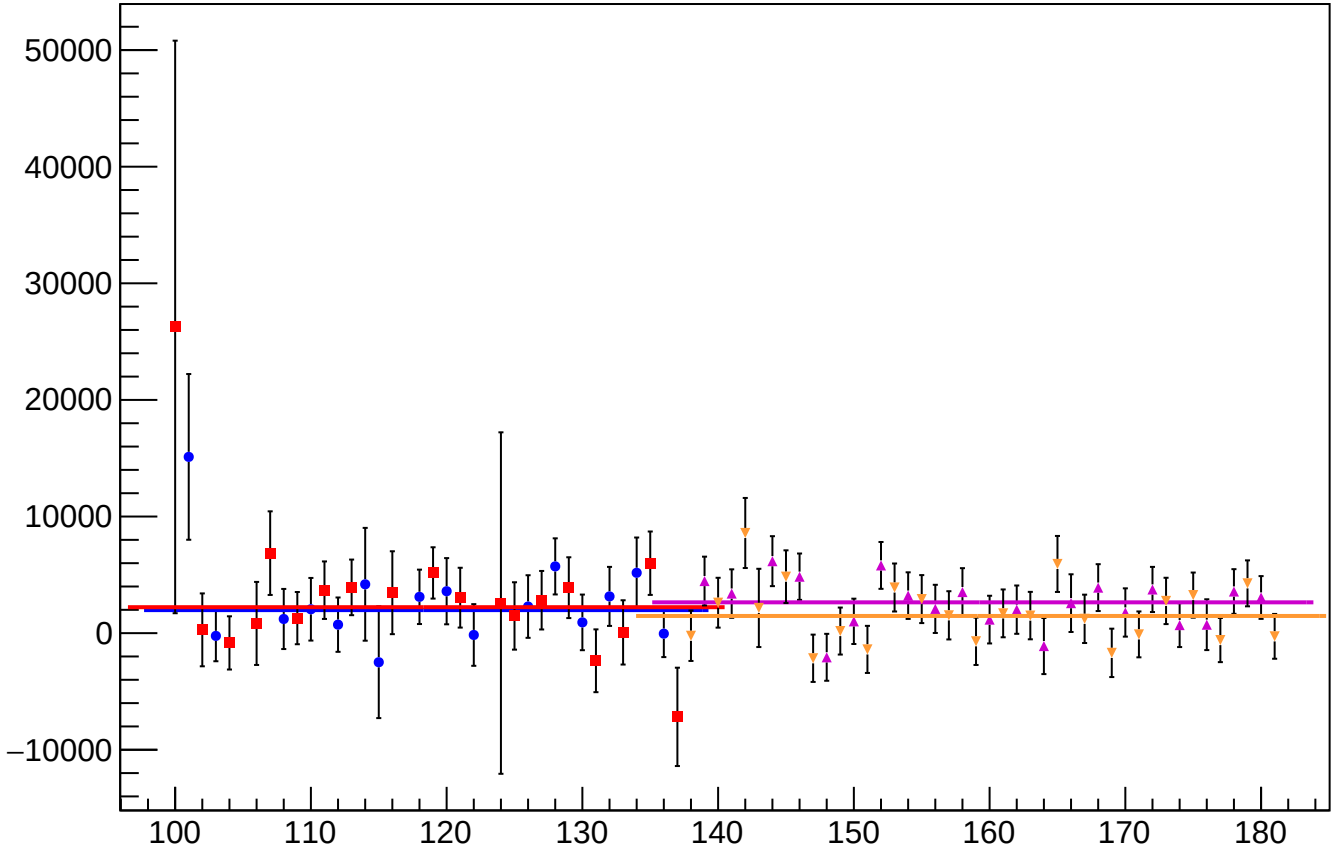
Right: 1889.931+/-0.437 $\chi^2$/NDF: 10371803.4/34

In: 3992.303+/-0.602 $\chi^2$/NDF:4706779.2/36

Out: 1980.138+/-0.377 $\chi^2$/NDF:23390211.3/41

All: 2546.721+/-0.320 $\chi^2$/NDF: 36111397.5/7

# cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected




Right In: 1975.946+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 1474.123+/-437.824 $\chi^2$/NDF:29.2/22

Right Out: 2226.267+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 2641.964+/-445.776 $\chi^2$/NDF:19.9/20

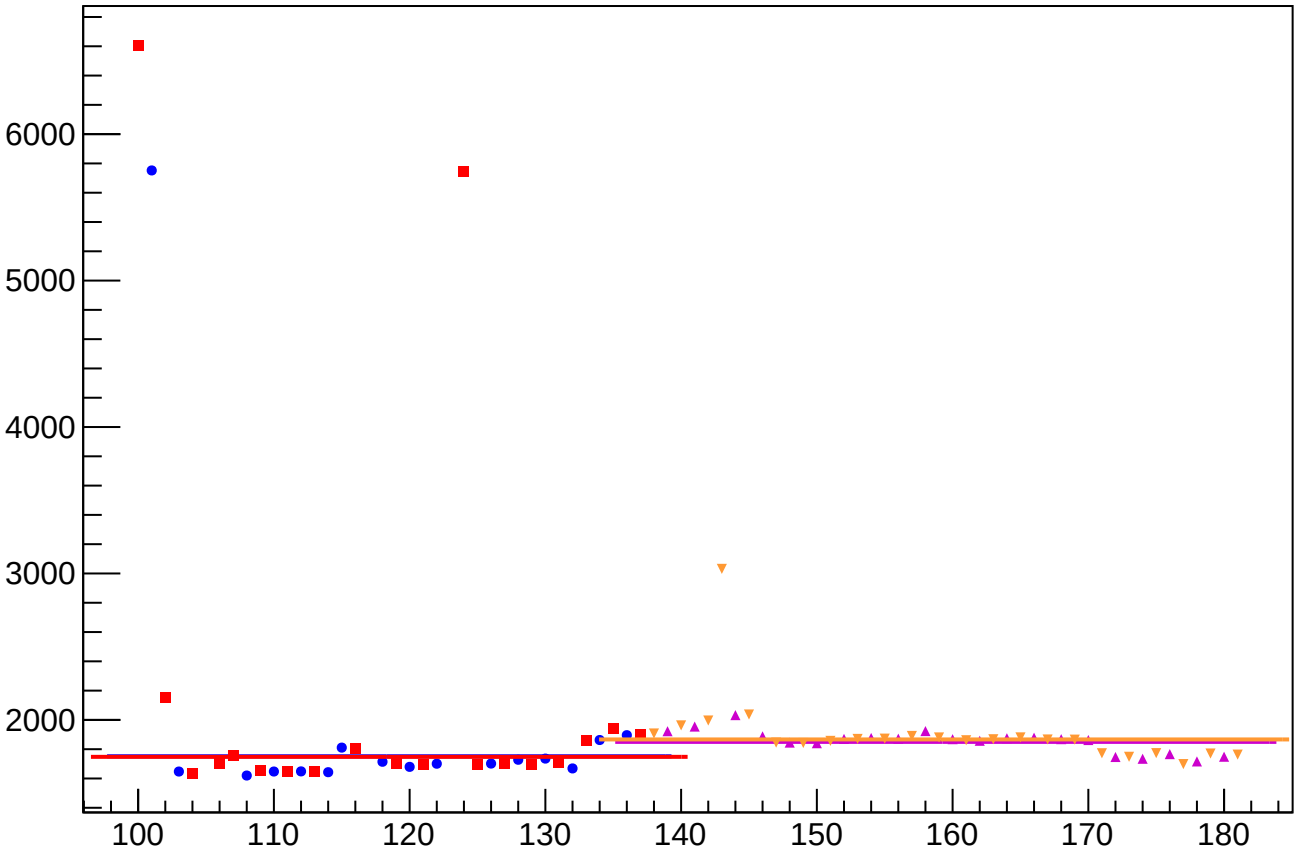
Left: 2047.534+/-312.362 $\chi^2$/NDF: 52.6/43

Right: 2103.266+/-468.051 $\chi^2$/NDF: 31.1/34

In: 2436.630+/-370.745 $\chi^2$/NDF:32.7/36

Out: 1705.771+/-364.215 $\chi^2$/NDF:49.1/41

All: 2064.707+/-259.817 $\chi^2$/NDF: 83.8/78




Right In: 1751.606+/-0.472 $\chi^2$/NDF: 670651.6/15

Left Out: 1866.633+/-0.310 $\chi^2$/NDF:304625.3/22

Right Out: 1747.786+/-0.462 $\chi^2$/NDF: 297917.6/18

Left In: 1849.977+/-0.315 $\chi^2$/NDF:59044.1/20

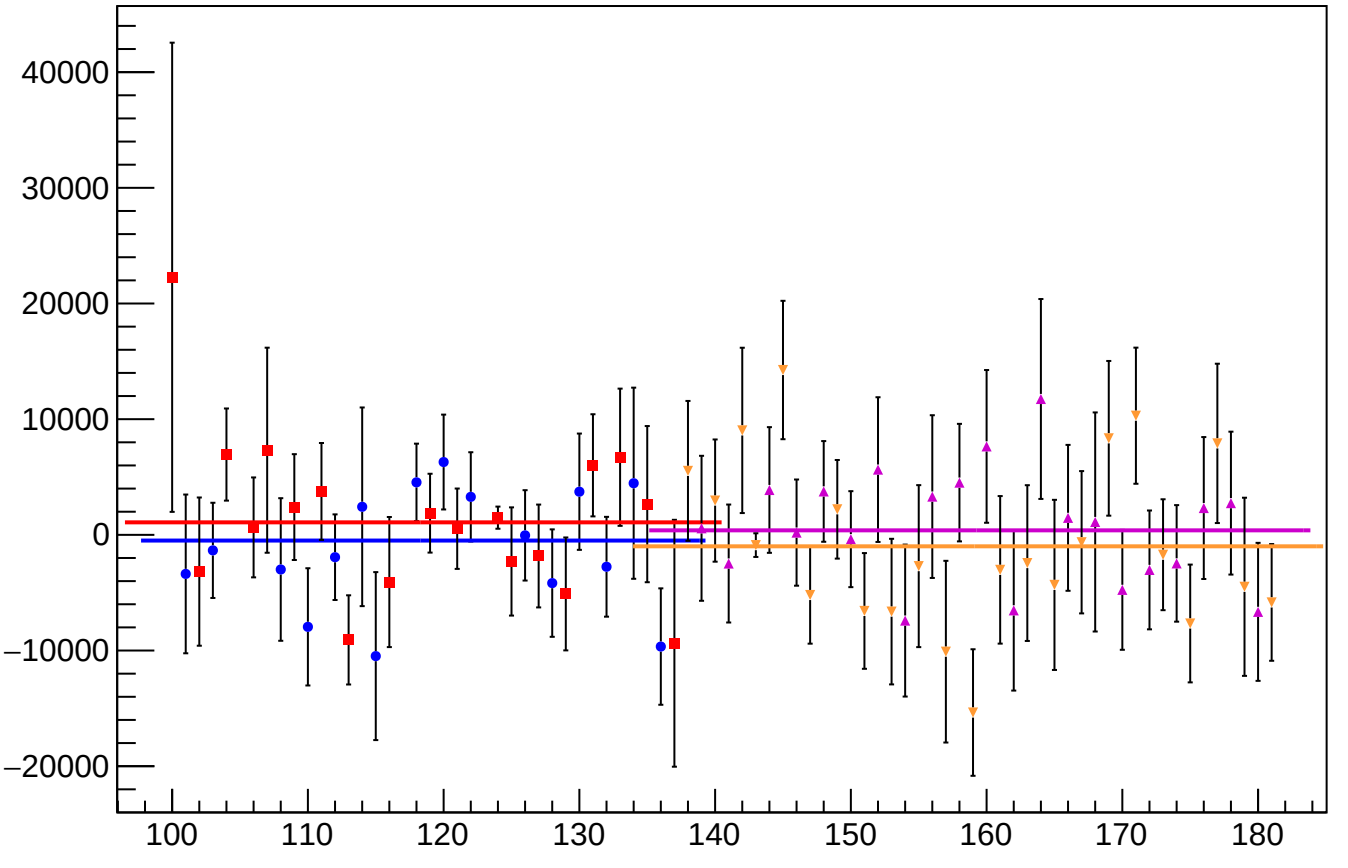
Left: 1858.455+/-0.221 $\chi^2$/NDF: 365090.7/43

Right: 1749.656+/-0.330 $\chi^2$/NDF: 968602.6/34

In: 1819.649+/-0.262 $\chi^2$/NDF:759722.0/36

Out: 1829.840+/-0.257 $\chi^2$/NDF:648166.4/41

All: 1824.841+/-0.184 $\chi^2$/NDF: 1408658.2/78




Right In: -492.916+/-1173.239 $\chi^2$/NDF: 16.0/15

Left Out: -991.259+/-786.560 $\chi^2$/NDF:32.6/22

Right Out: 1080.924+/-731.458 $\chi^2$/NDF: 18.5/18

Left In: 389.789+/-1237.830 $\chi^2$/NDF:11.7/20

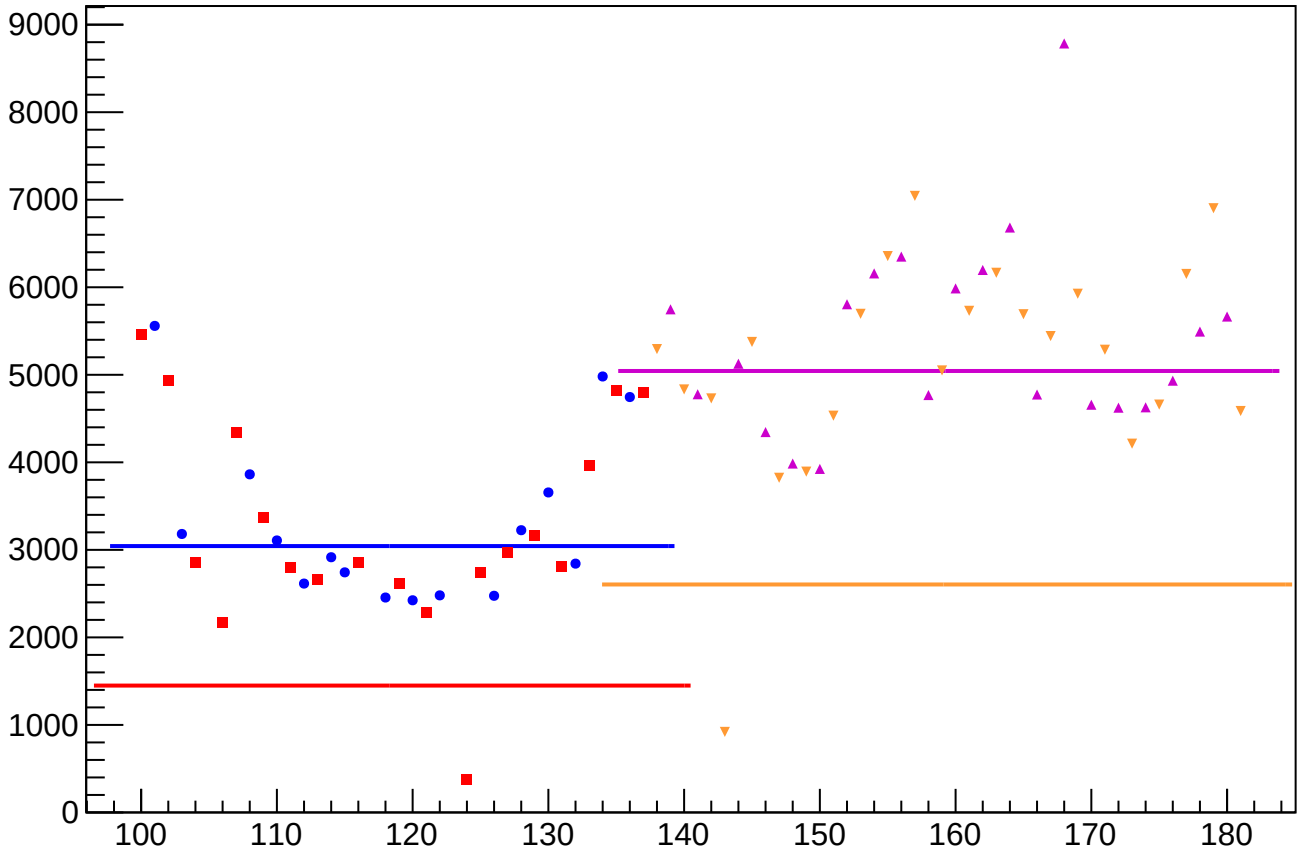
Left: -594.020+/-663.869 $\chi^2$/NDF: 45.2/43

Right: 640.409+/-620.707 $\chi^2$/NDF: 35.7/34

In: -75.194+/-851.524 $\chi^2$/NDF:27.9/36

Out: 119.951+/-535.640 $\chi^2$/NDF:54.8/41

All: 64.626+/-453.398 $\chi^2$/NDF: 82.8/78




Right In: 3043.270+/-0.830 $\chi^2$/NDF: 905659.7/15

Left Out: 2604.525+/-0.556 $\chi^2$/NDF:14270138.2/22

Right Out: 1449.516+/-0.517 $\chi^2$/NDF: 6825716.5/18

Left In: 5043.593+/-0.875 $\chi^2$/NDF:1058099.8/20

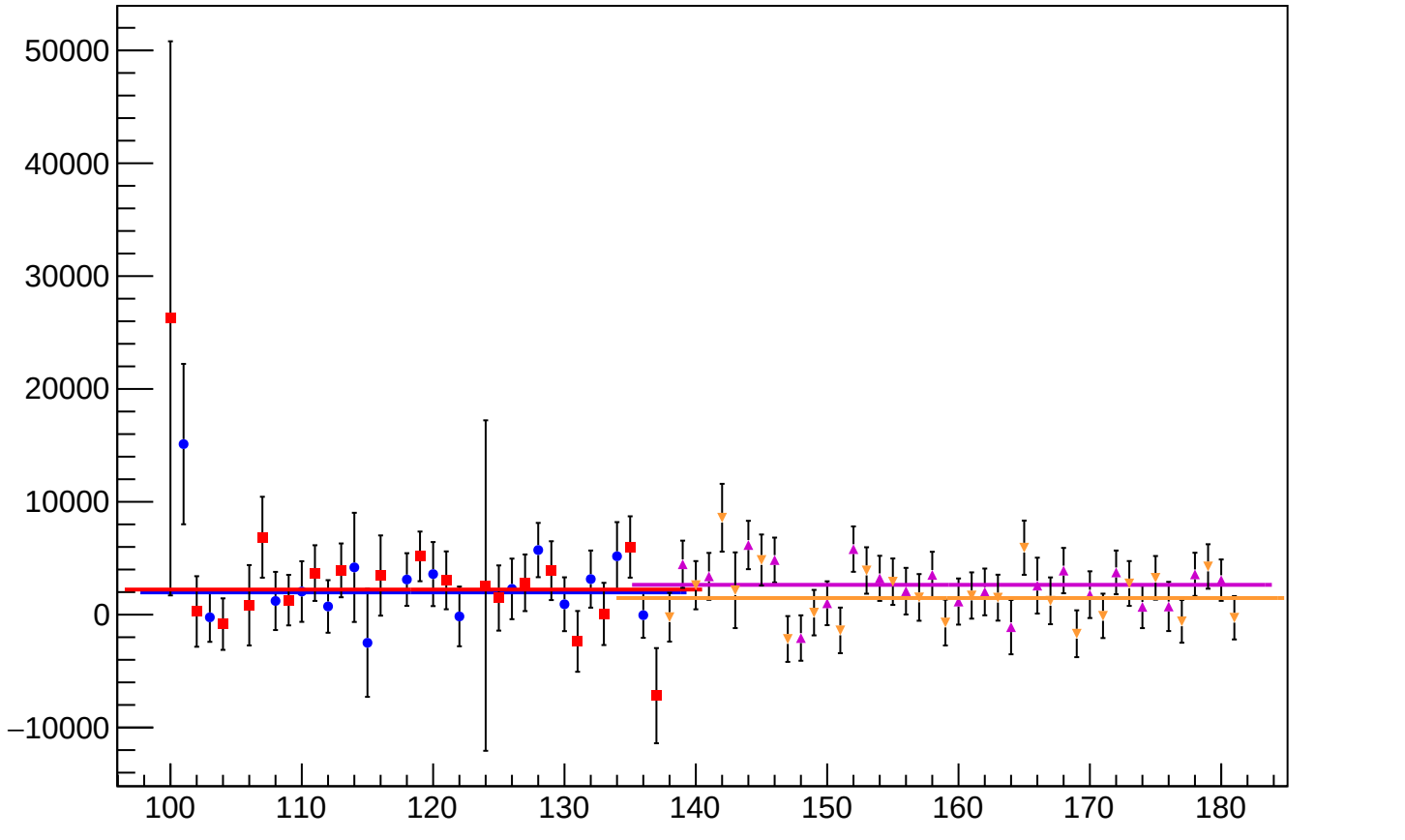
Left: 3306.089+/-0.469 $\chi^2$/NDF: 20859927.6/43

Right: 1895.604+/-0.439 $\chi^2$/NDF: 10389001.0/34

In: 3989.883+/-0.602 $\chi^2$/NDF:4715006.1/36

Out: 1985.151+/-0.379 $\chi^2$/NDF:23408481.1/41

All: 2553.507+/-0.321 $\chi^2$/NDF: 36066045.1/7




Right In: 1975.946+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 1474.123+/-437.824 $\chi^2$/NDF:29.2/22

Right Out: 2226.267+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 2641.964+/-445.776 $\chi^2$/NDF:19.9/20

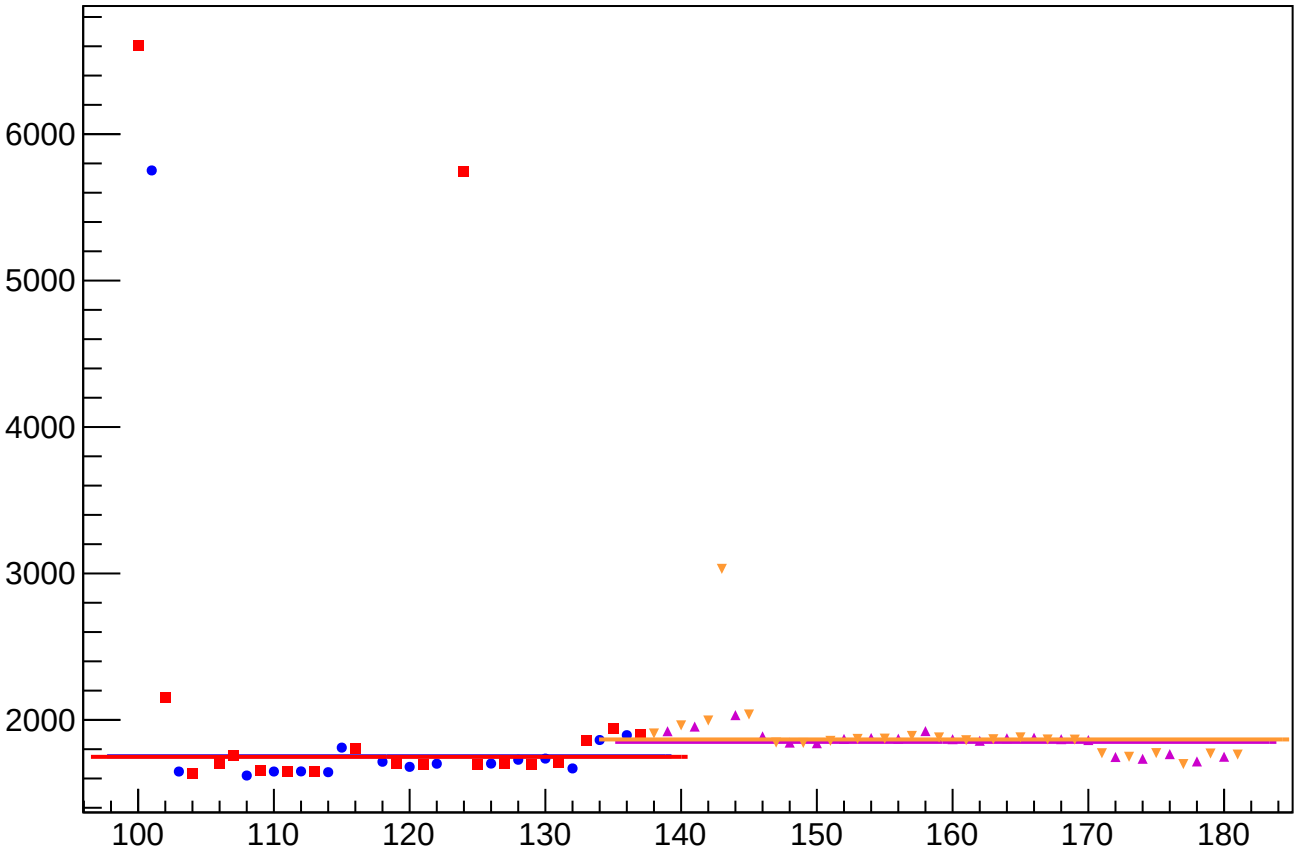
Left: 2047.534+/-312.362 $\chi^2$/NDF: 52.6/43

Right: 2103.266+/-468.051 $\chi^2$/NDF: 31.1/34

In: 2436.630+/-370.745 $\chi^2$/NDF:32.7/36

Out: 1705.771+/-364.215 $\chi^2$/NDF:49.1/41

All: 2064.707+/-259.817 $\chi^2$/NDF: 83.8/78




Right In: 1751.606+/-0.472 $\chi^2$/NDF: 670651.6/15

Left Out: 1866.633+/-0.310 $\chi^2$/NDF:304625.3/22

Right Out: 1747.786+/-0.462 $\chi^2$/NDF: 297917.6/18

Left In: 1849.977+/-0.315 $\chi^2$/NDF:59044.1/20

Left: 1858.455+/-0.221 $\chi^2$/NDF: 365090.7/43

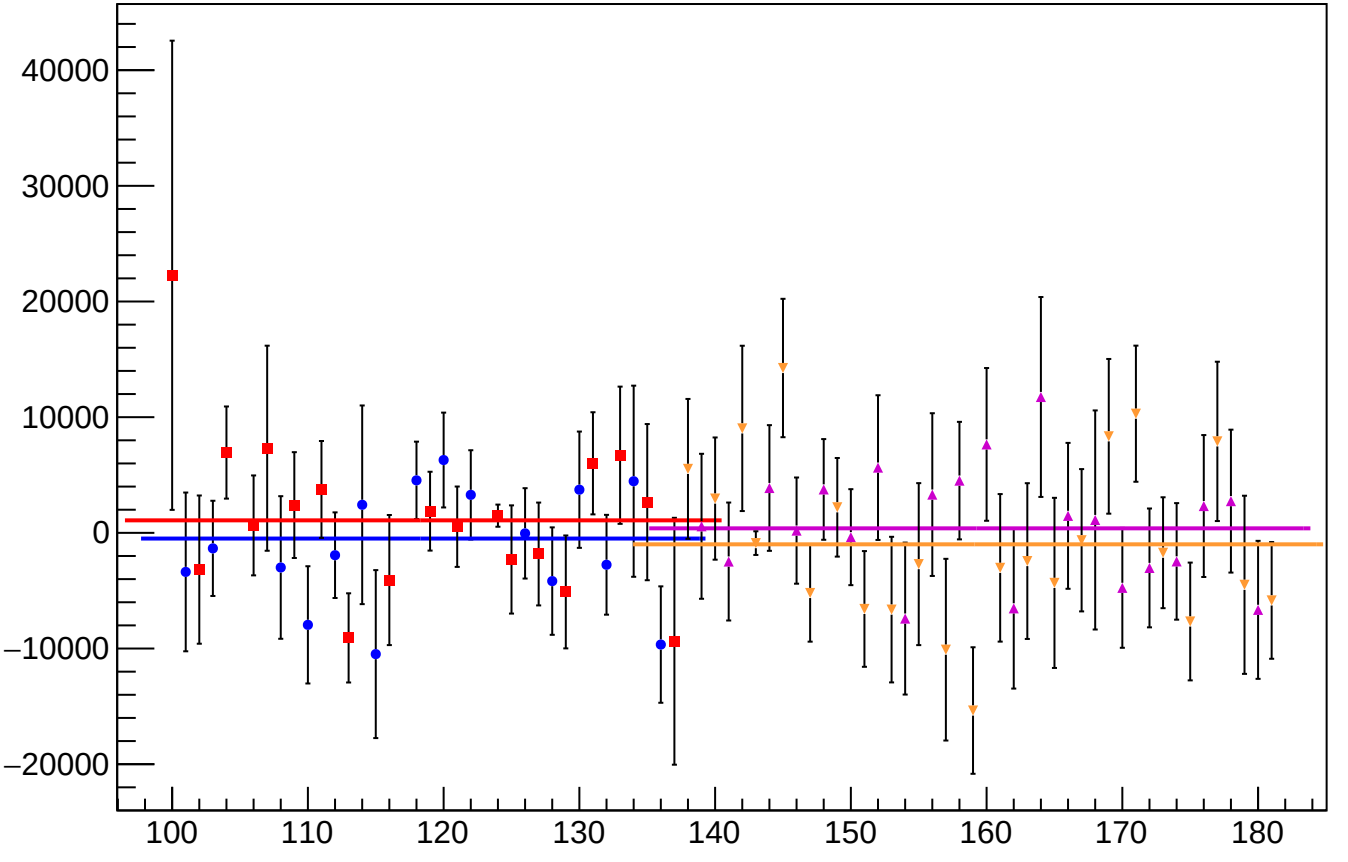
Right: 1749.656+/-0.330 $\chi^2$/NDF: 968602.6/34

In: 1819.649+/-0.262 $\chi^2$/NDF:759722.0/36

Out: 1829.840+/-0.257 $\chi^2$/NDF:648166.4/41

All: 1824.841+/-0.184 $\chi^2$/NDF: 1408658.2/78

asym_atr1l2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -492.916+/-1173.239 $\chi^2$/NDF: 16.0/15

Left Out: -991.259+/-786.560 $\chi^2$/NDF:32.6/22

Right Out: 1080.924+/-731.458 $\chi^2$/NDF: 18.5/18

Left In: 389.789+/-1237.830 $\chi^2$/NDF:11.7/20

Left: -594.020+/-663.869 $\chi^2$/NDF: 45.2/43

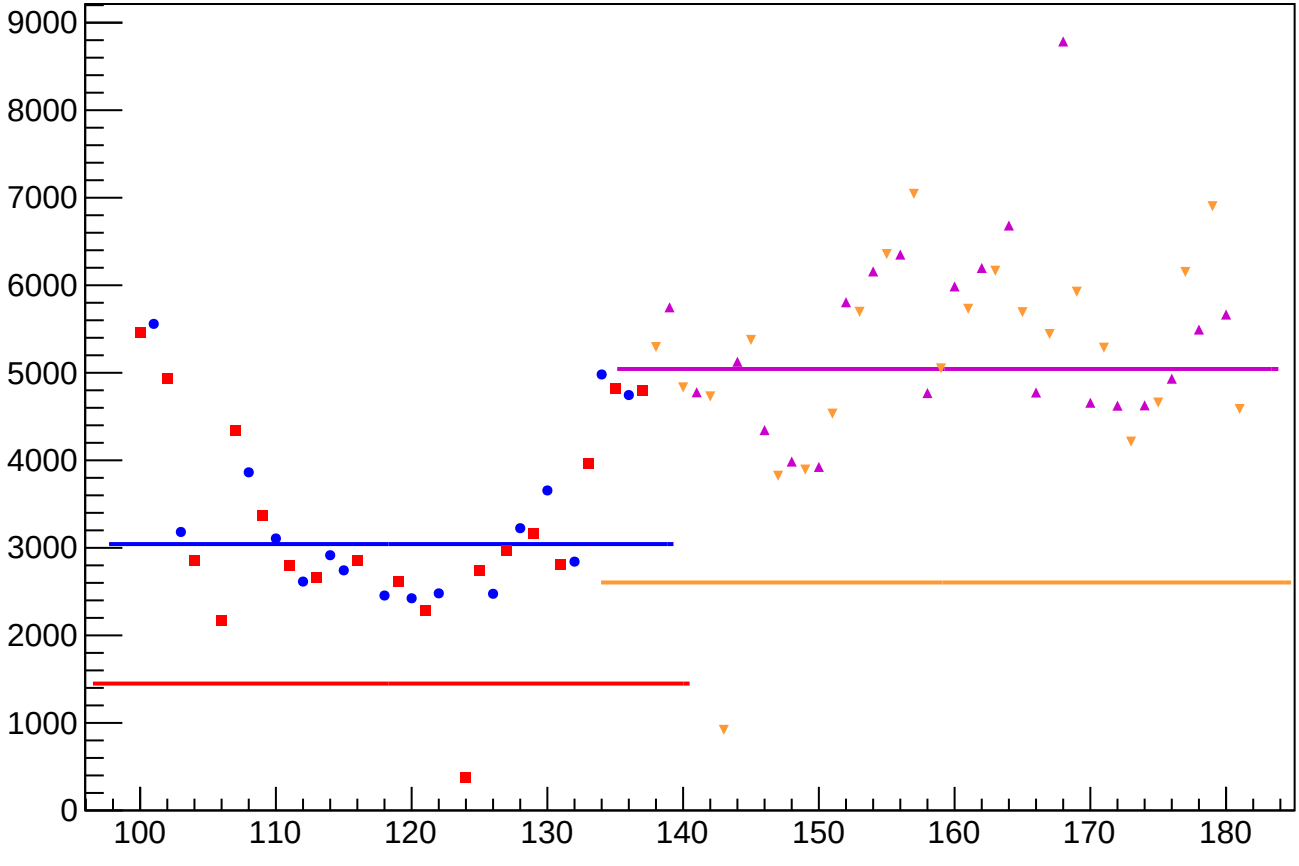
Right: 640.409+/-620.707 $\chi^2$/NDF: 35.7/34

In: -75.194+/-851.524 $\chi^2$/NDF:27.9/36

Out: 119.951+/-535.640 $\chi^2$/NDF:54.8/41

All: 64.626+/-453.398 $\chi^2$/NDF: 82.8/78

asym_atr1l2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3043.270+/-0.830 $\chi^2$/NDF: 905659.7/15

Left Out: 2604.525+/-0.556 $\chi^2$/NDF:14270138.2/22

Right Out: 1449.516+/-0.517 $\chi^2$/NDF: 6825716.5/18

Left In: 5043.593+/-0.875 $\chi^2$/NDF:1058099.8/20

Left: 3306.089+/-0.469 $\chi^2$/NDF: 20859927.6/43

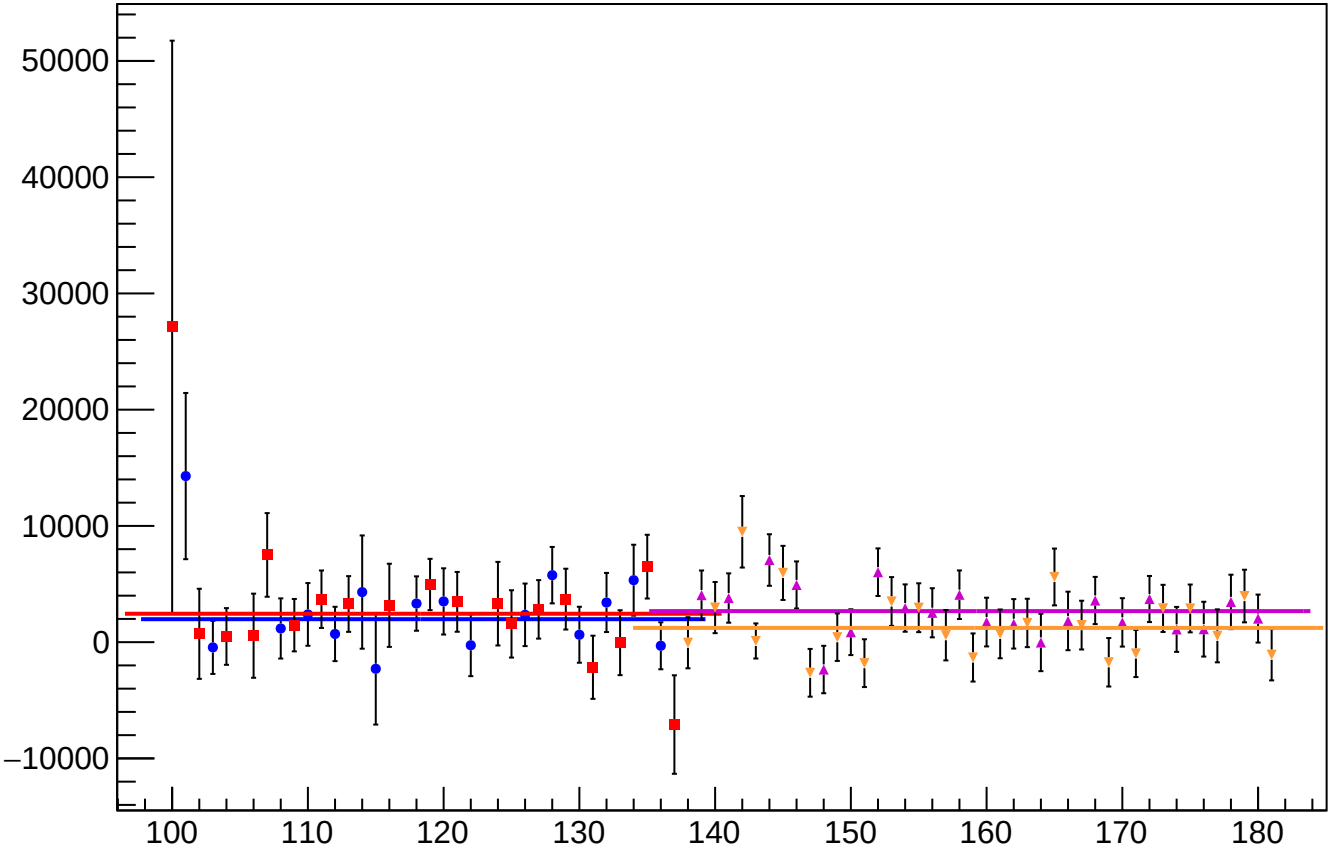
Right: 1895.604+/-0.439 $\chi^2$/NDF: 10389001.0/34

In: 3989.883+/-0.602 $\chi^2$/NDF:4715006.1/36

Out: 1985.151+/-0.379 $\chi^2$/NDF:23408481.1/41

All: 2553.507+/-0.321 $\chi^2$/NDF: 36066045.1/7

# dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected




Right In: 1975.804+/-674.086 $\chi^2$/NDF: 12.4/15

Left Out: 1226.065+/-440.481 $\chi^2$/NDF:32.7/22

Right Out: 2444.199+/-657.682 $\chi^2$/NDF: 17.5/18

Left In: 2671.123+/-462.059 $\chi^2$/NDF:19.7/20

Left: 1914.064+/-318.823 $\chi^2$/NDF: 57.5/43

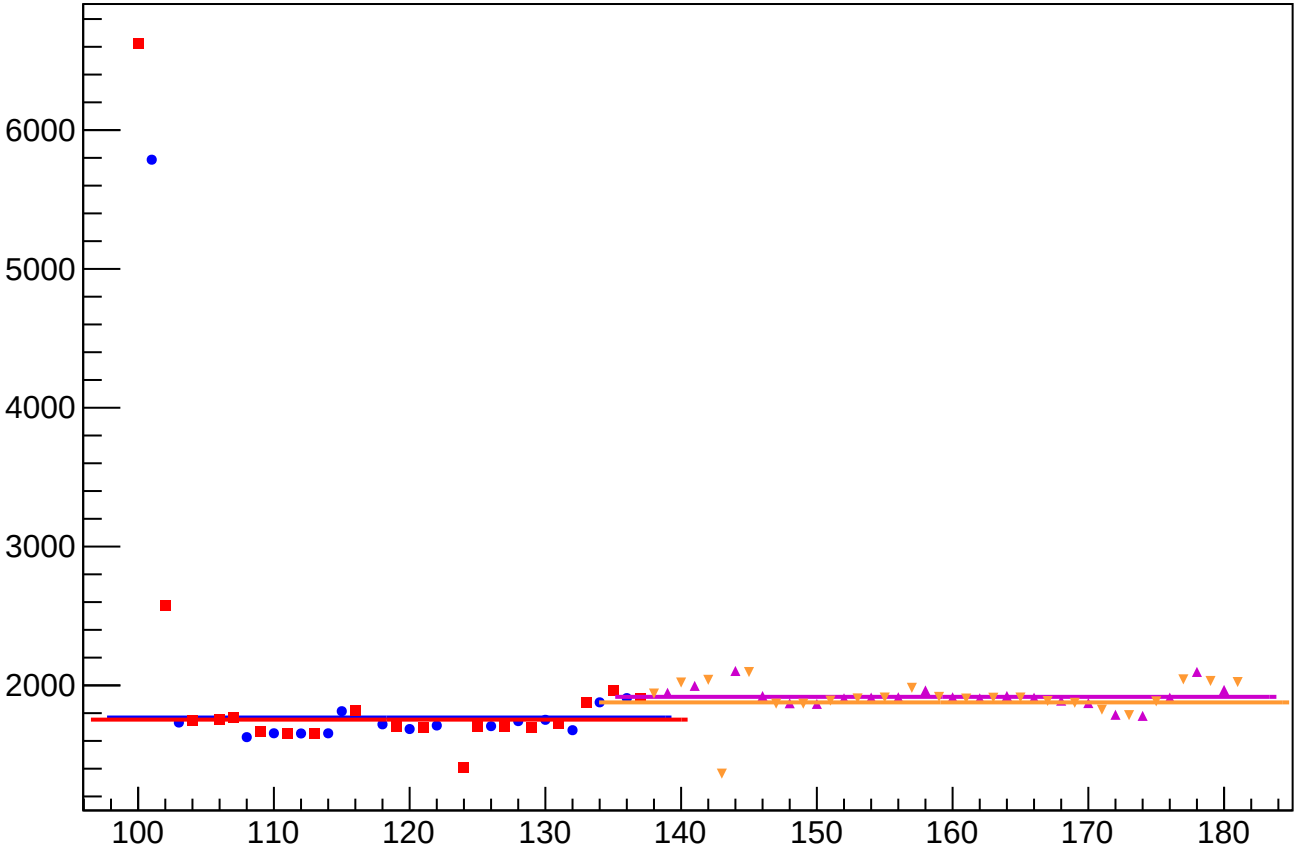
Right: 2215.770+/-470.744 $\chi^2$/NDF: 30.1/34

In: 2448.857+/-381.119 $\chi^2$/NDF:32.8/36

Out: 1603.272+/-365.981 $\chi^2$/NDF:52.6/41

All: 2008.938+/-263.977 $\chi^2$/NDF: 88.0/78

# dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected




Right In: 1768.480+/-0.477 $\chi^2$/NDF: 667367.4/15

Left Out: 1877.472+/-0.311 $\chi^2$/NDF:306428.0/22

Right Out: 1753.383+/-0.464 $\chi^2$/NDF: 218864.4/18

Left In: 1917.476+/-0.327 $\chi^2$/NDF:53507.1/20

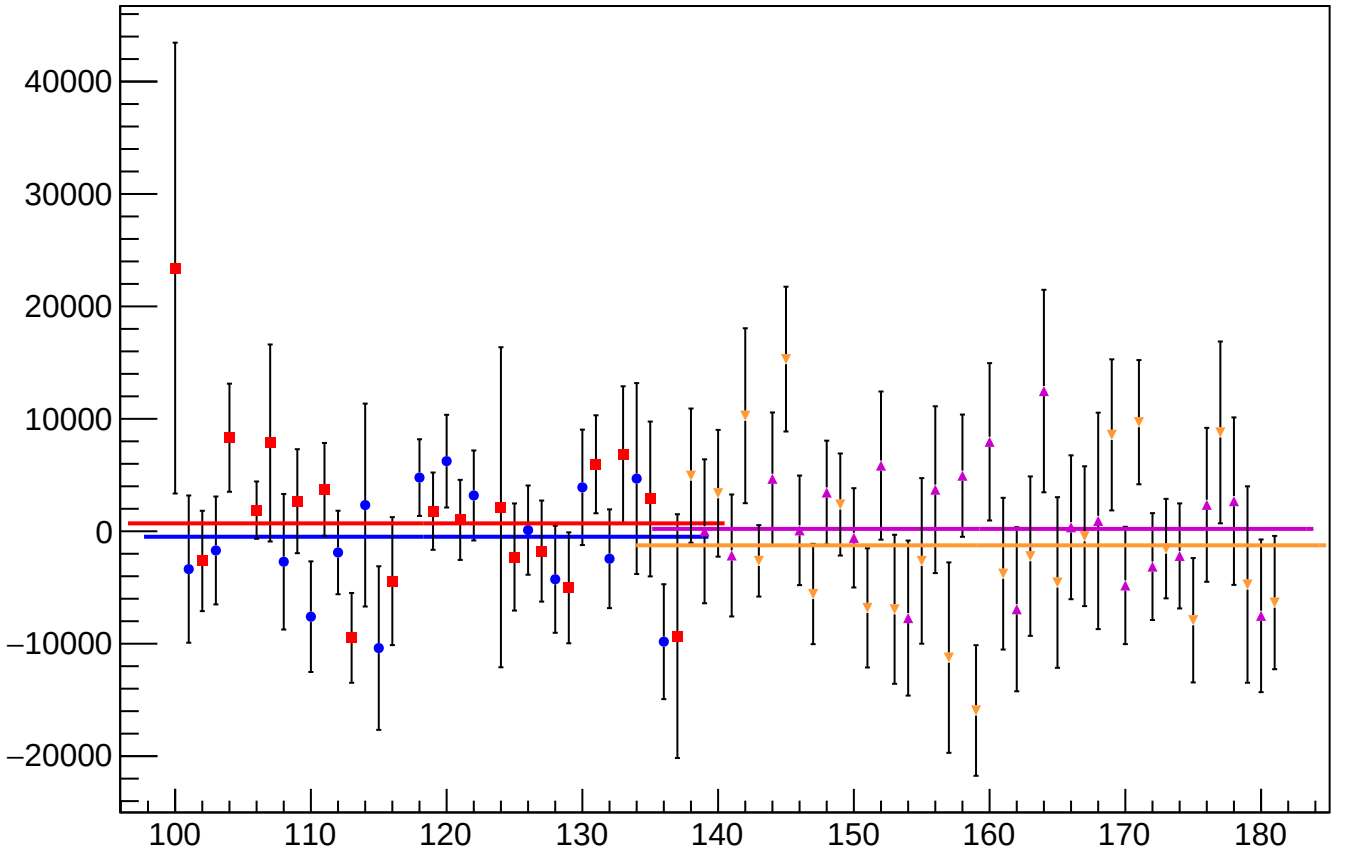
Left: 1896.518+/-0.225 $\chi^2$/NDF: 367789.1/43

Right: 1760.725+/-0.332 $\chi^2$/NDF: 886747.1/34

In: 1869.848+/-0.269 $\chi^2$/NDF:787352.1/36

Out: 1838.905+/-0.259 $\chi^2$/NDF:574623.7/41

All: 1853.737+/-0.187 $\chi^2$/NDF: 1368839.9/78




Right In: -488.104+/-1198.506 $\chi^2$/NDF: 15.8/15

Left Out: -1250.305+/-1196.029 $\chi^2$/NDF:32.3/22

Right Out: 703.324+/-1069.467 $\chi^2$/NDF: 18.8/18

Left In: 211.311+/-1292.907 $\chi^2$/NDF:11.6/20

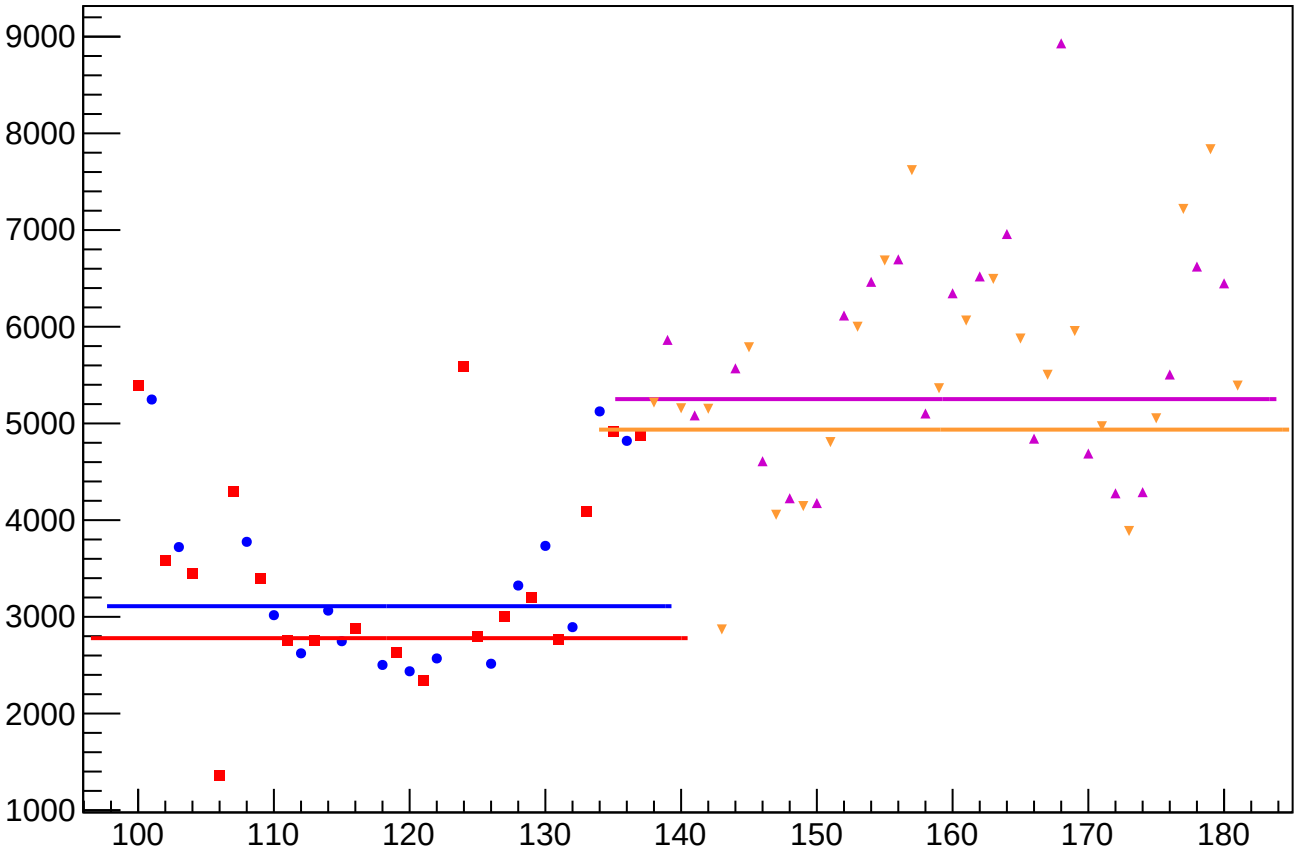
Left: -576.302+/-877.973 $\chi^2$/NDF: 44.6/43

Right: 175.178+/-797.963 $\chi^2$/NDF: 35.1/34

In: -164.860+/-878.952 $\chi^2$/NDF:27.5/36

Out: -164.691+/-797.231 $\chi^2$/NDF:52.6/41

All: -164.767+/-590.510 $\chi^2$/NDF: 80.1/78




Right In: 3110.133+/-0.847 $\chi^2$/NDF: 883262.4/15

Left Out: 4936.166+/-0.846 $\chi^2$/NDF:2156782.1/22

Right Out: 2779.630+/-0.756 $\chi^2$/NDF: 1348141.7/18

Left In: 5251.624+/-0.914 $\chi^2$/NDF:1258405.4/20

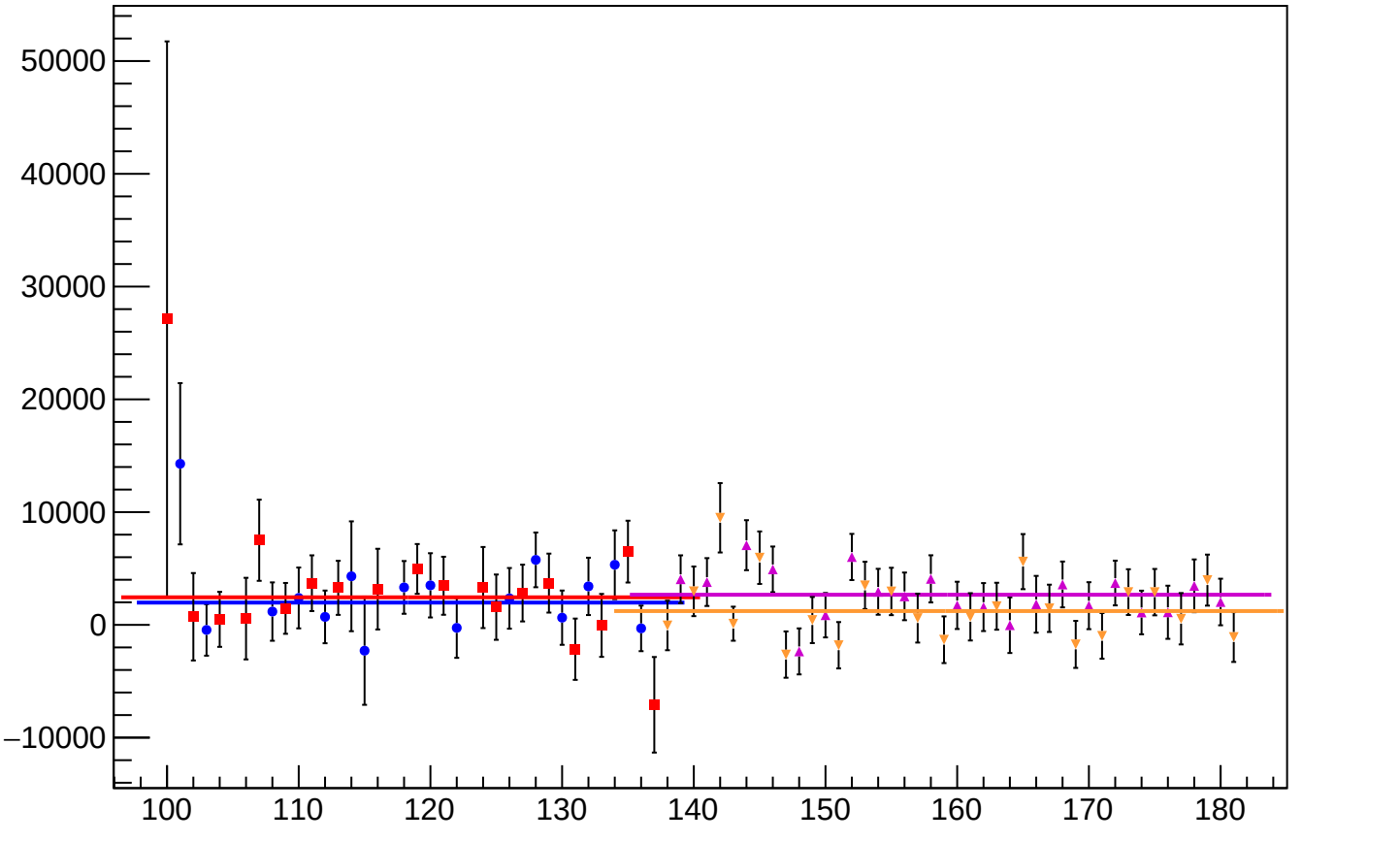
Left: 5081.635+/-0.621 $\chi^2$/NDF: 3479346.5/43

Right: 2926.138+/-0.564 $\chi^2$/NDF: 2316074.2/34

In: 4099.852+/-0.622 $\chi^2$/NDF:5092729.3/36

Out: 3737.799+/-0.564 $\chi^2$/NDF:7118137.9/41

All: 3901.216+/-0.418 $\chi^2$/NDF: 12397046.5/7




Right In: 1975.805+/-674.086 $\chi^2$/NDF: 12.4/15

Left Out: 1226.062+/-440.481 $\chi^2$/NDF:32.7/22

Right Out: 2444.199+/-657.682 $\chi^2$/NDF: 17.5/18

Left In: 2671.122+/-462.059 $\chi^2$/NDF:19.7/20

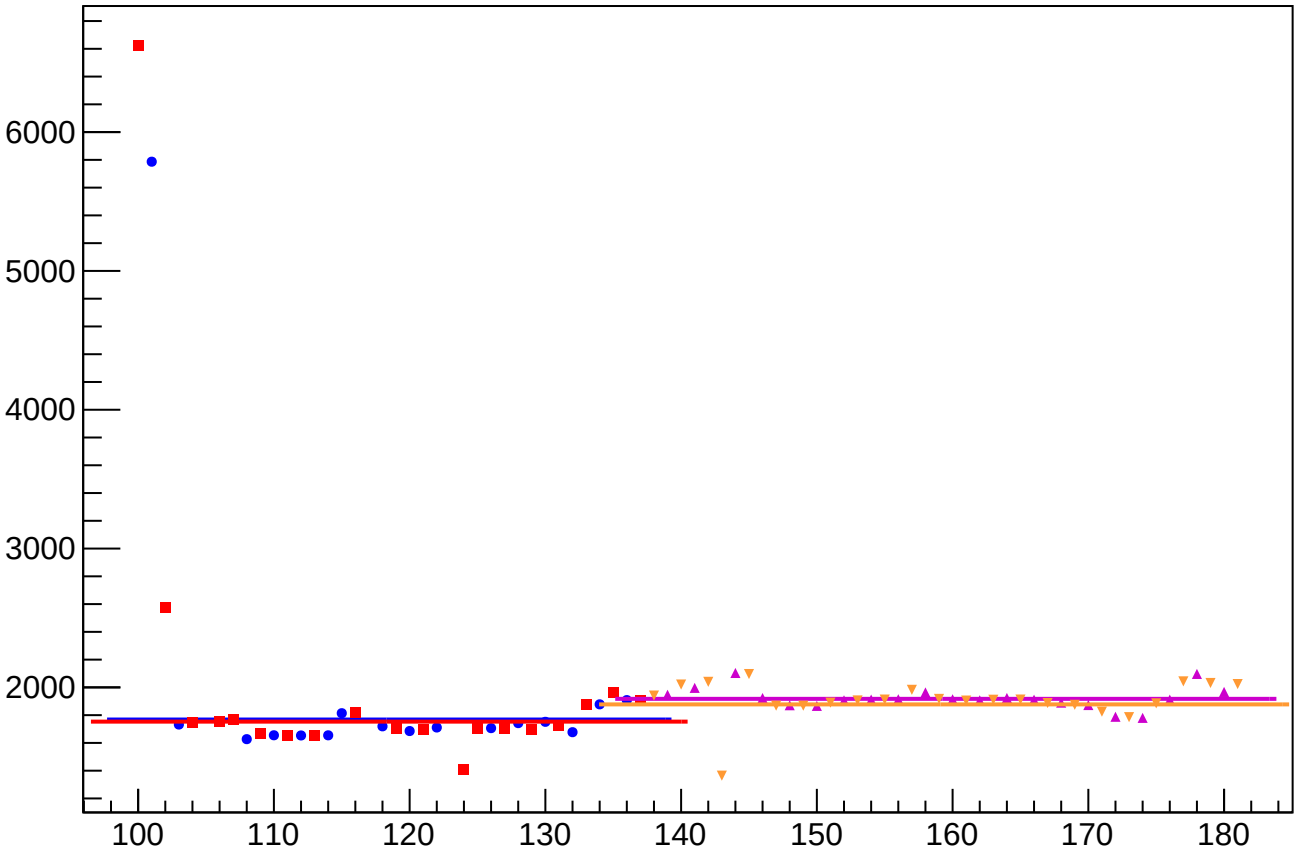
Left: 1914.063+/-318.823 $\chi^2$/NDF: 57.5/43

Right: 2215.771+/-470.744 $\chi^2$/NDF: 30.1/34

In: 2448.856+/-381.119 $\chi^2$/NDF:32.8/36

Out: 1603.270+/-365.981 $\chi^2$/NDF:52.6/41

All: 2008.937+/-263.977 $\chi^2$/NDF: 88.0/78




Right In: 1768.480+/-0.477 $\chi^2$/NDF: 667367.4/15

Left Out: 1877.473+/-0.311 $\chi^2$/NDF:306431.6/22

Right Out: 1753.382+/-0.464 $\chi^2$/NDF: 218864.3/18

Left In: 1917.477+/-0.327 $\chi^2$/NDF:53509.4/20

Left: 1896.519+/-0.225 $\chi^2$/NDF: 367795.0/43

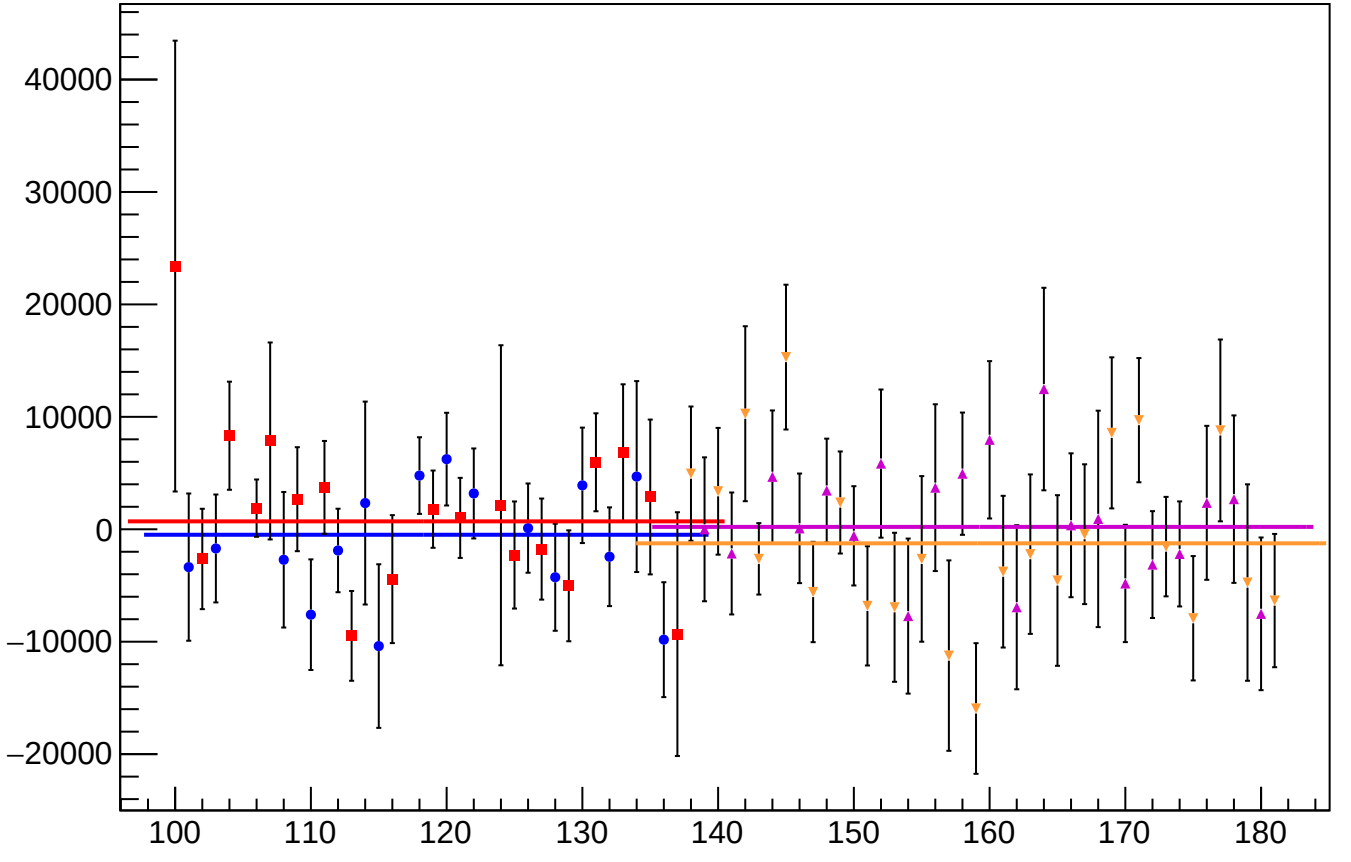
Right: 1760.725+/-0.332 $\chi^2$/NDF: 886747.0/34

In: 1869.849+/-0.269 $\chi^2$/NDF:787355.4/36

Out: 1838.906+/-0.259 $\chi^2$/NDF:574628.1/41

All: 1853.738+/-0.187 $\chi^2$/NDF: 1368847.6/78

asym_atr1l2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -488.098+/-1198.502 $\chi^2$/NDF: 15.8/15

Left Out: -1250.310+/-1196.030 $\chi^2$/NDF:32.3/22

Right Out: 703.325+/-1069.463 $\chi^2$/NDF: 18.8/18

Left In: 211.311+/-1292.909 $\chi^2$/NDF:11.6/20

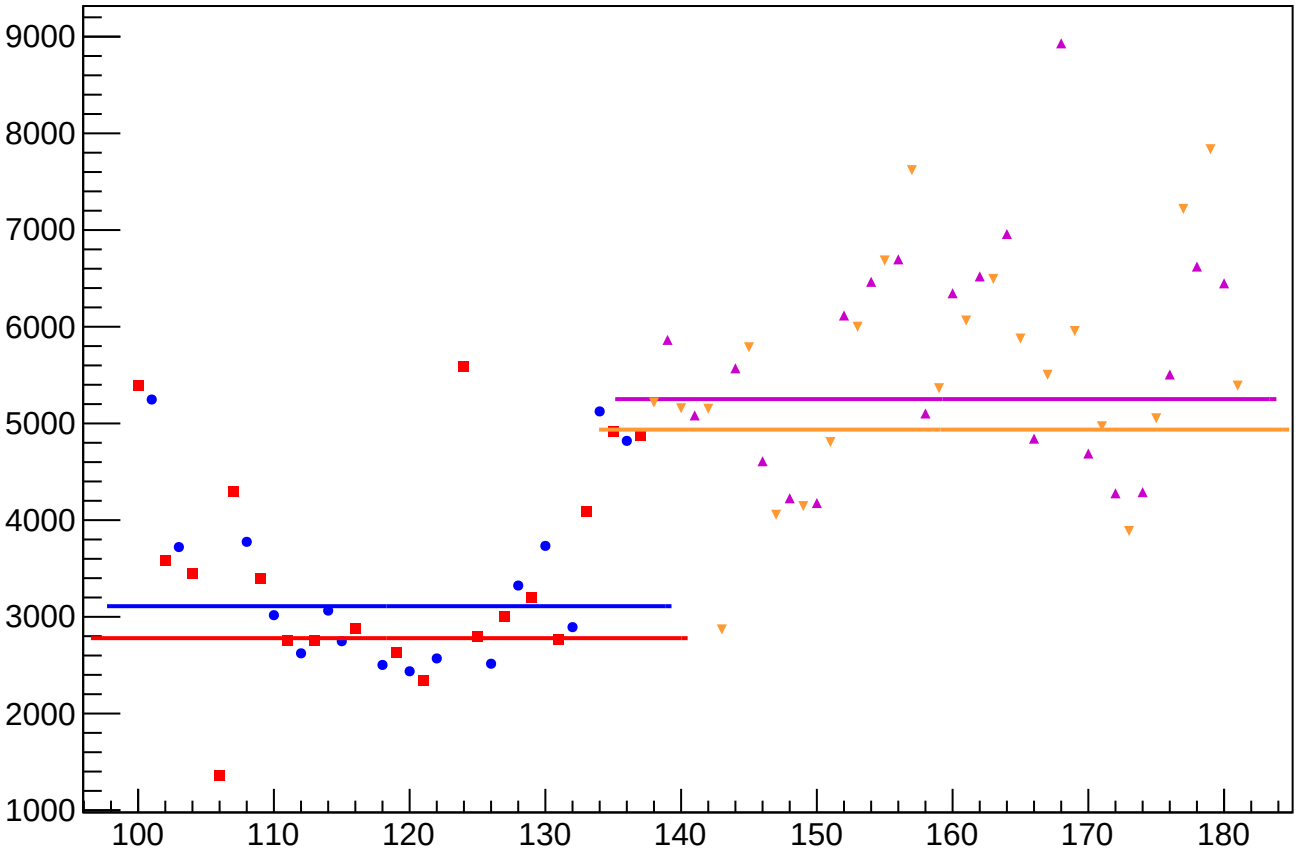
Left: -576.305+/-877.975 $\chi^2$/NDF: 44.6/43

Right: 175.182+/-797.960 $\chi^2$/NDF: 35.1/34

In: -164.858+/-878.951 $\chi^2$/NDF:27.5/36

Out: -164.688+/-797.230 $\chi^2$/NDF:52.6/41

All: -164.765+/-590.509 $\chi^2$/NDF: 80.1/78




Right In: 3110.121+/-0.847 $\chi^2$/NDF: 883272.2/15

Left Out: 4936.173+/-0.846 $\chi^2$/NDF:2156789.3/22

Right Out: 2779.617+/-0.756 $\chi^2$/NDF: 1348160.7/18

Left In: 5251.631+/-0.914 $\chi^2$/NDF:1258407.2/20

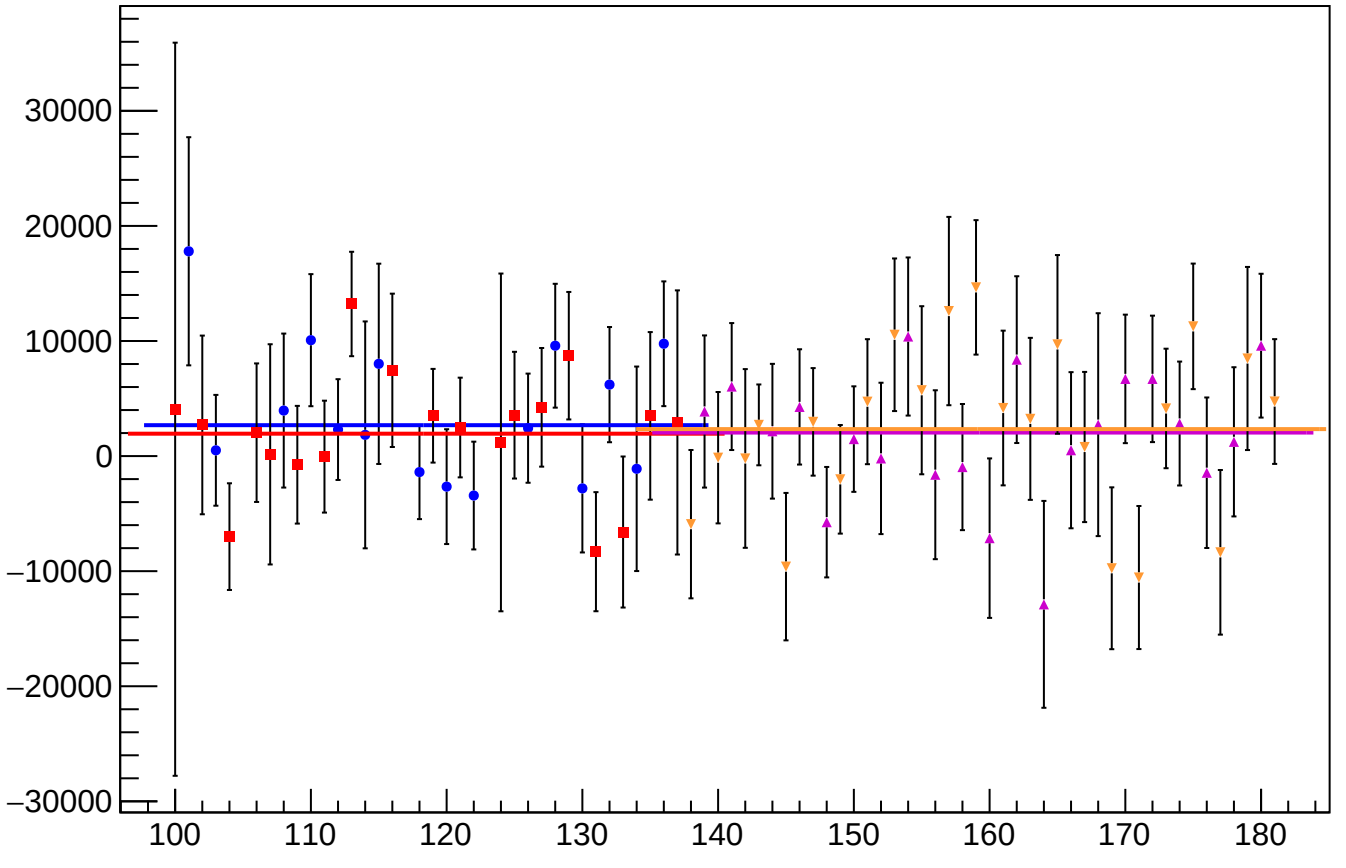
Left: 5081.642+/-0.621 $\chi^2$/NDF: 3479355.8/43

Right: 2926.126+/-0.564 $\chi^2$/NDF: 2316104.6/34

In: 4099.845+/-0.622 $\chi^2$/NDF:5092797.4/36

Out: 3737.789+/-0.564 $\chi^2$/NDF:7118235.5/41

All: 3901.207+/-0.418 $\chi^2$/NDF: 12397215.3/7




Right In: 2685.414+/-1379.907 $\chi^2$/NDF: 13.5/15

Left Out: 2344.319+/-1234.926 $\chi^2$/NDF:28.4/22

Right Out: 1945.685+/-1332.986 $\chi^2$/NDF: 18.7/18

Left In: 2043.676+/-1325.625 $\chi^2$/NDF:14.1/20

Left: 2204.633+/-903.589 $\chi^2$/NDF: 42.5/43

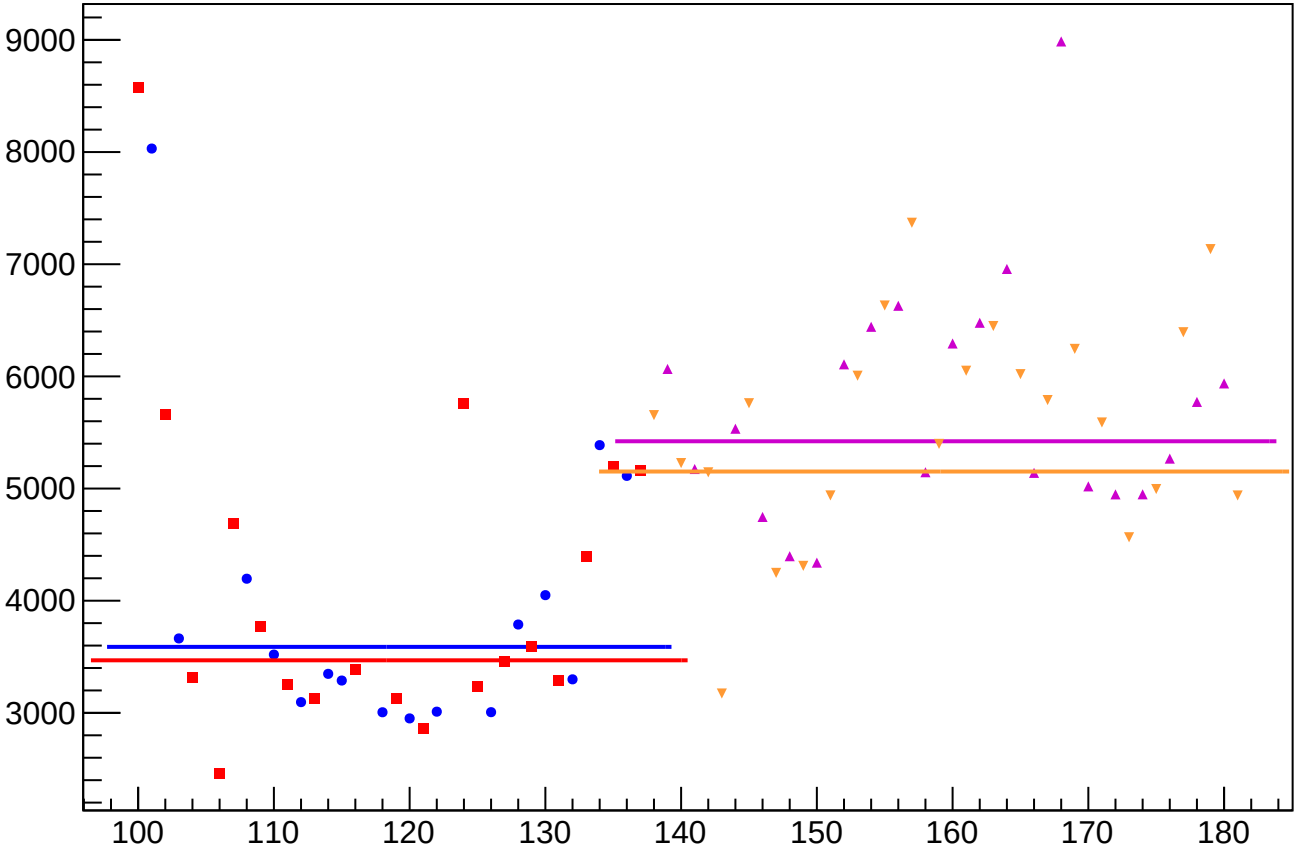
Right: 2302.760+/-958.722 $\chi^2$/NDF: 32.3/34

In: 2351.675+/-955.973 $\chi^2$/NDF:27.7/36

Out: 2160.202+/-905.910 $\chi^2$/NDF:47.1/41

All: 2250.794+/-657.561 $\chi^2$/NDF: 74.9/78

# asym_atr1l2_avg_rms vs Slug, Sign Corrected




Right In: 3588.430+/-0.976 $\chi^2$/NDF: 845218.6/15

Left Out: 5151.796+/-0.873 $\chi^2$/NDF:1493818.1/22

Right Out: 3468.624+/-0.928 $\chi^2$/NDF: 666541.5/18

Left In: 5421.553+/-0.937 $\chi^2$/NDF:856120.5/20

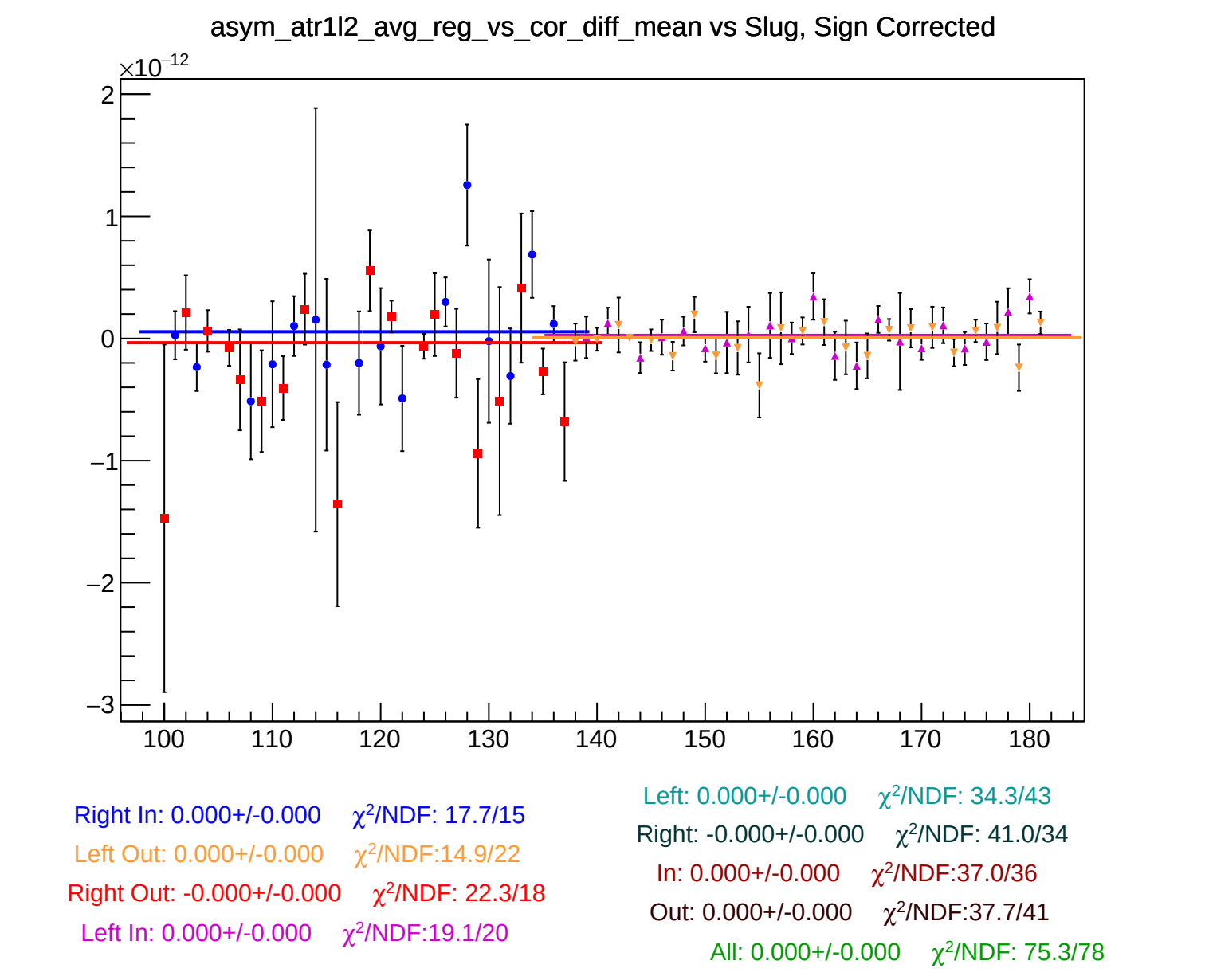
Left: 5277.131+/-0.639 $\chi^2$/NDF: 2394278.4/43

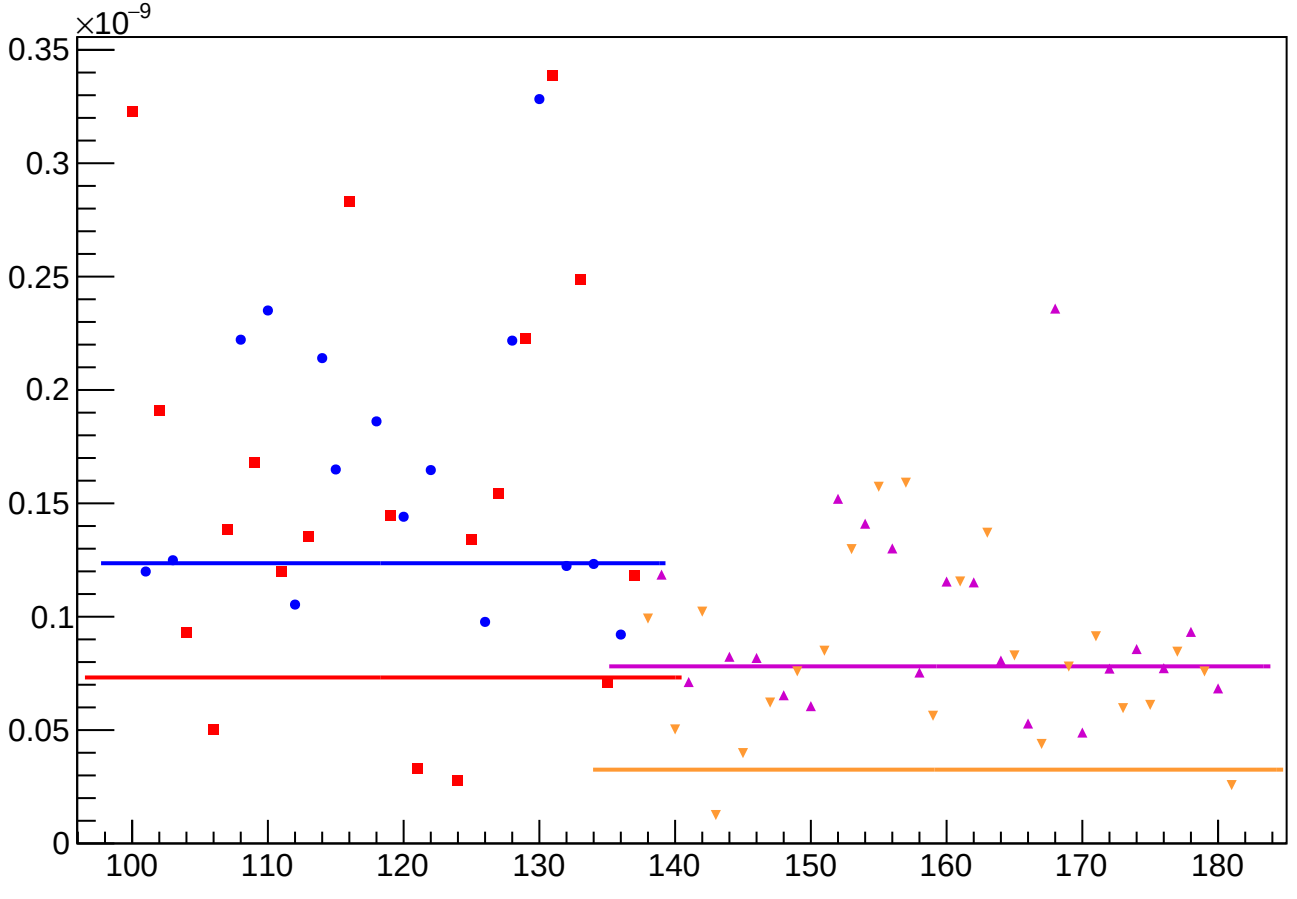
Right: 3525.541+/-0.673 $\chi^2$/NDF: 1519674.0/34

In: 4541.753+/-0.676 $\chi^2$/NDF:3536877.8/36

Out: 4361.573+/-0.636 $\chi^2$/NDF:3904677.6/41

All: 4446.182+/-0.463 $\chi^2$/NDF: 7479240.9/78


asym_atr1l2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 17.7/15
Left Out: 0.000+/-0.000 χ²/NDF:14.9/22
Right Out: -0.000+/-0.000 χ²/NDF: 22.3/18
Left In: 0.000+/-0.000 χ²/NDF:19.1/20
Left: 0.000+/-0.000 χ²/NDF: 34.3/43
Right: -0.000+/-0.000 χ²/NDF: 41.0/34
In: 0.000+/-0.000 χ²/NDF:37.0/36
Out: 0.000+/-0.000 χ²/NDF:37.7/41
All: 0.000+/-0.000 χ²/NDF: 75.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 662149.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6121978.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2188857.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1388960.6/20

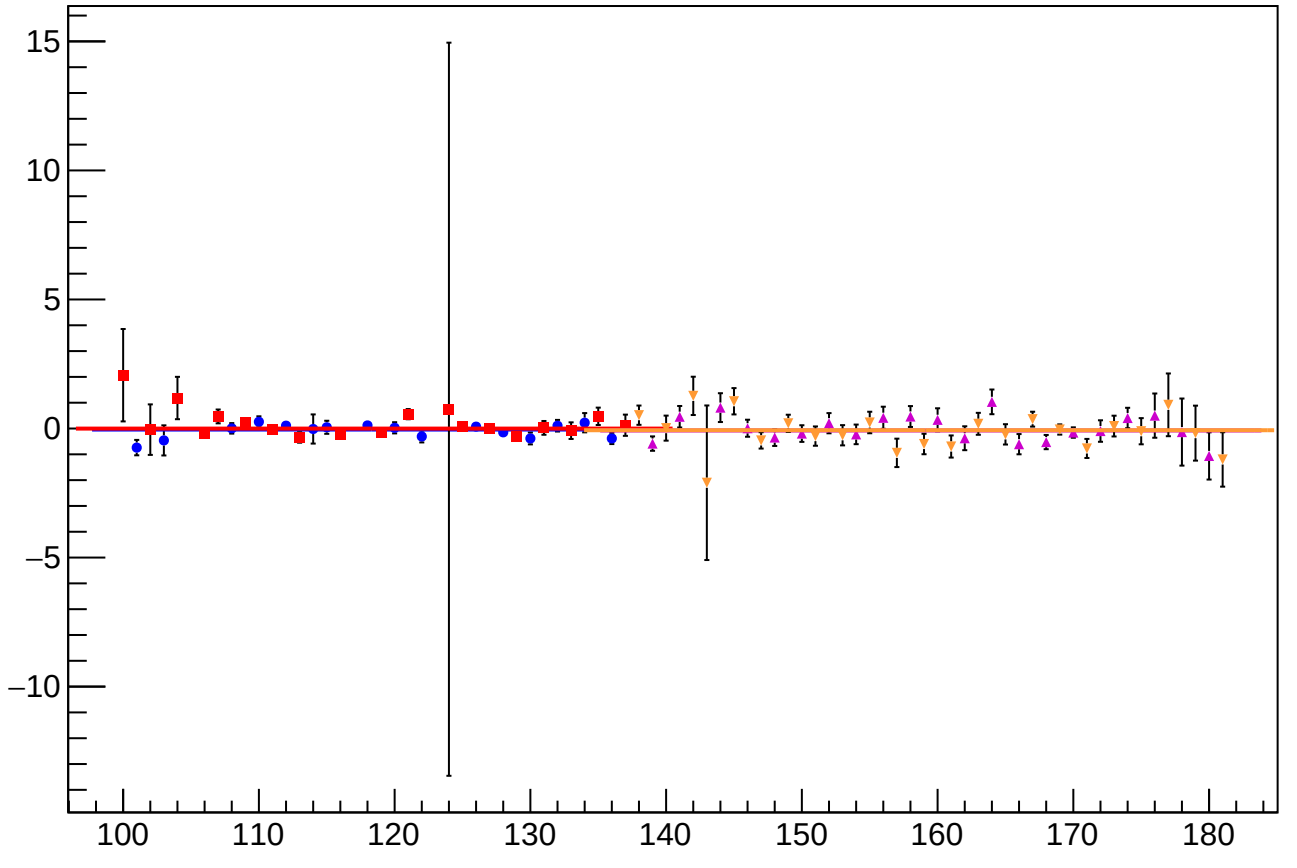
Left: 0.000+/-0.000 $\chi^2$/NDF: 10634576.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3471325.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:2700433.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:9362918.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 16267186.6/78




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: -0.066+/-0.085 $\chi^2$/NDF:29.2/22

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.076+/-0.082 $\chi^2$/NDF:26.6/20

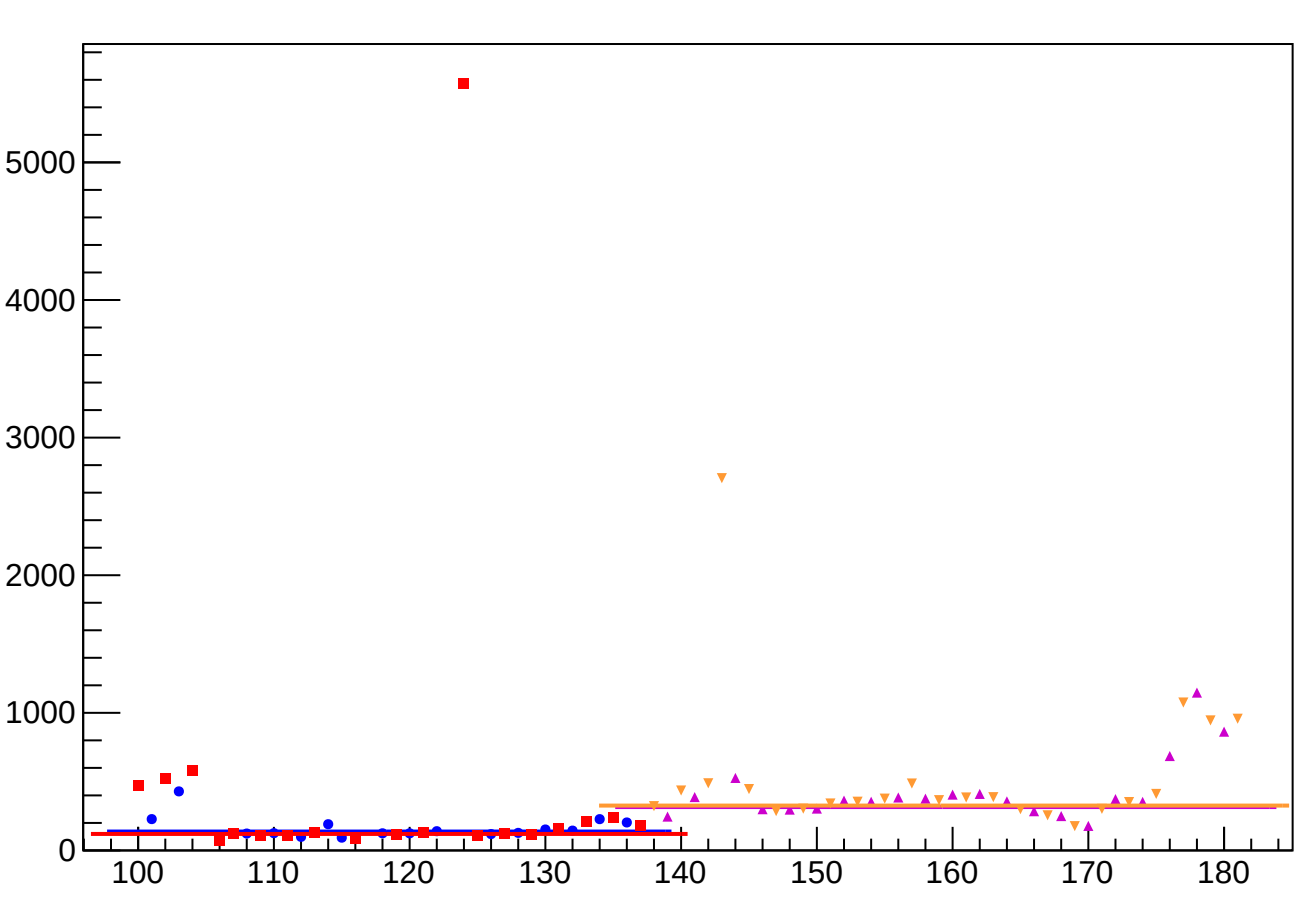
Left: -0.071+/-0.059 $\chi^2$/NDF: 55.8/43

Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.051+/-0.046 $\chi^2$/NDF:44.6/36

Out: -0.020+/-0.044 $\chi^2$/NDF:58.3/41

All: -0.035+/-0.032 $\chi^2$/NDF: 103.2/78




Right In: 137.399+/-0.039 $\chi^2$/NDF: 1268257.0/15

Left Out: 326.107+/-0.060 $\chi^2$/NDF:5410240.8/22

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139894.0/18

Left In: 315.346+/-0.058 $\chi^2$/NDF:3830031.2/20

Left: 320.564+/-0.042 $\chi^2$/NDF: 9256960.1/43

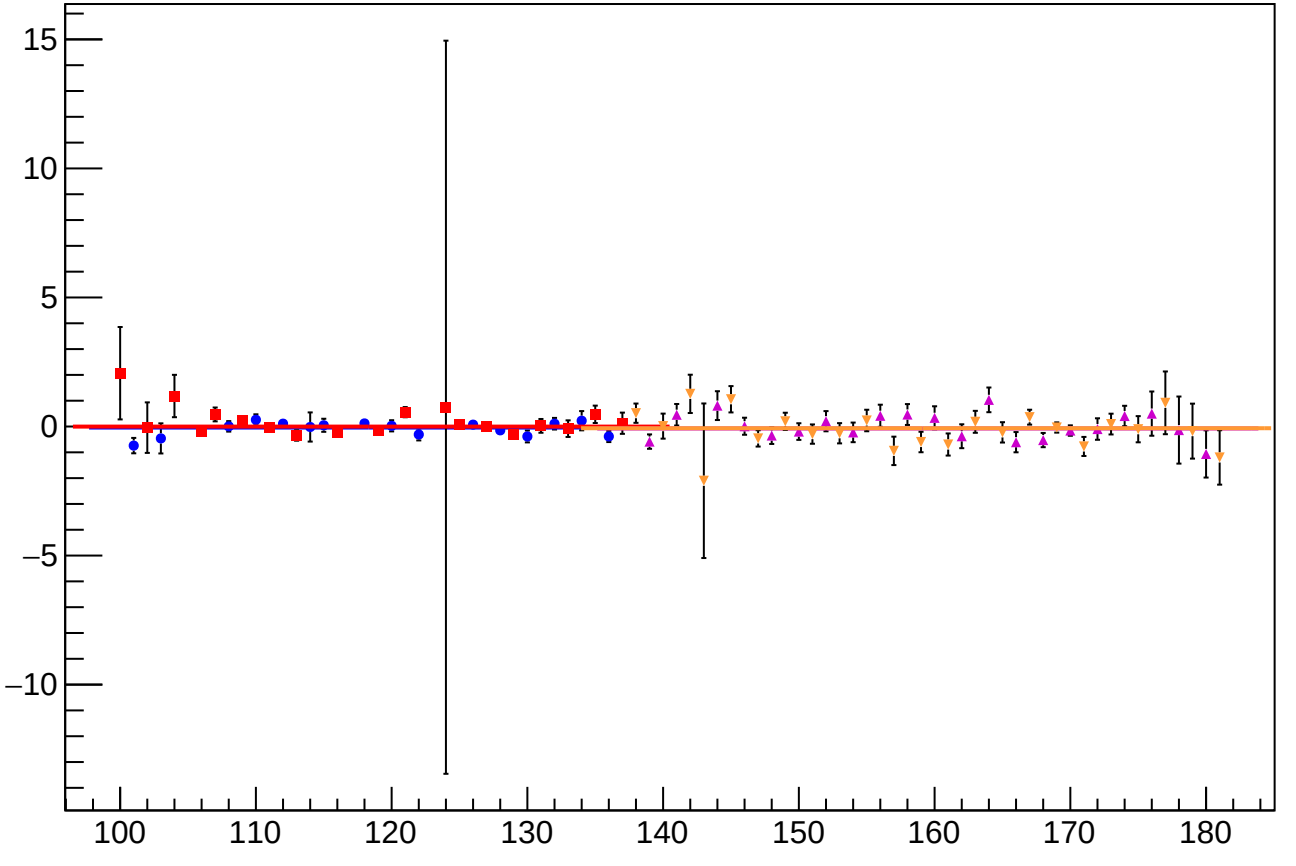
Right: 127.907+/-0.027 $\chi^2$/NDF: 3514127.8/34

In: 193.710+/-0.033 $\chi^2$/NDF:11529935.6/36

Out: 174.874+/-0.031 $\chi^2$/NDF:16270855.9/41

All: 183.763+/-0.022 $\chi^2$/NDF: 27976738.9/78

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: -0.066+/-0.085 $\chi^2$/NDF:29.2/22

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.076+/-0.082 $\chi^2$/NDF:26.6/20

Left: -0.071+/-0.059 $\chi^2$/NDF: 55.8/43

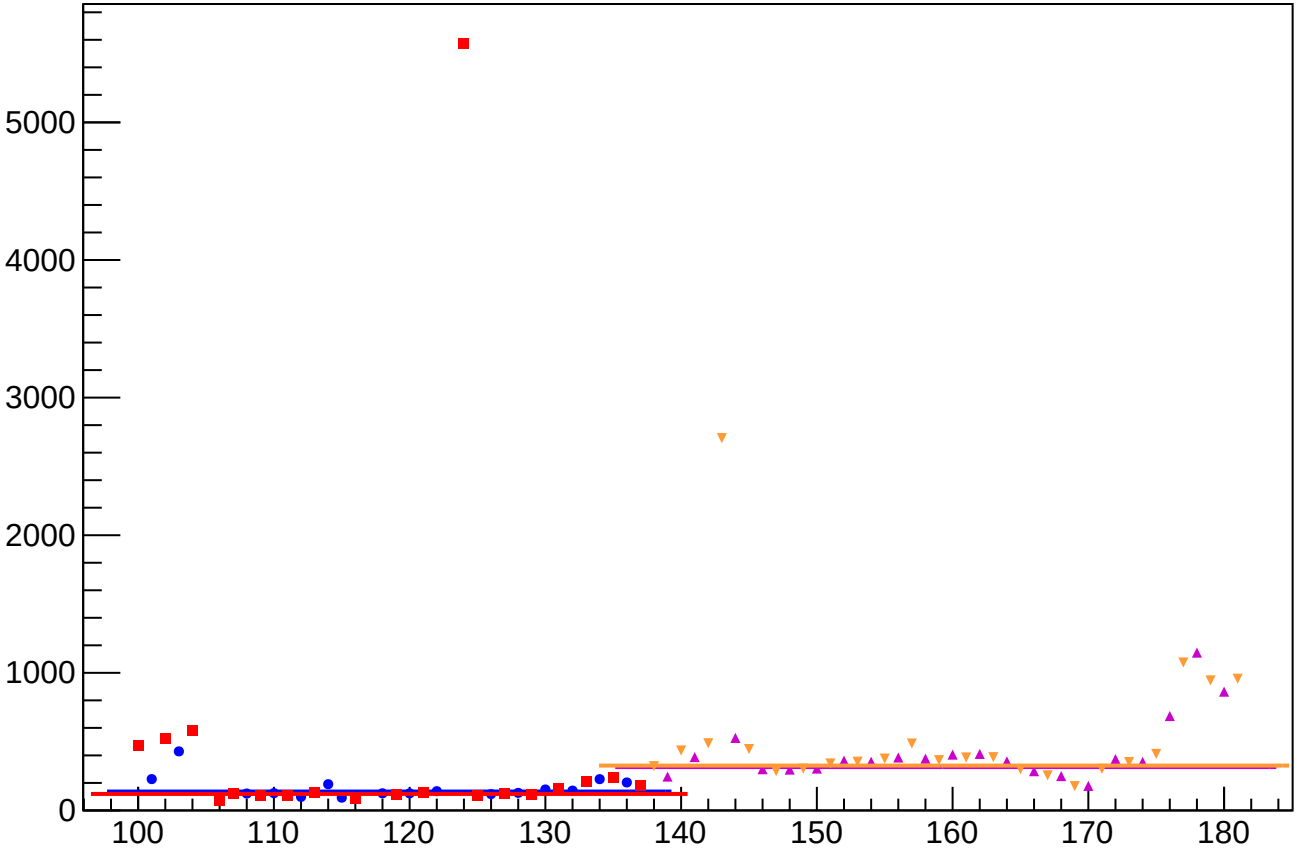
Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.051+/-0.046 $\chi^2$/NDF:44.6/36

Out: -0.020+/-0.044 $\chi^2$/NDF:58.3/41

All: -0.035+/-0.032 $\chi^2$/NDF: 103.2/78

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.399+/-0.039 $\chi^2$/NDF: 1268257.0/15

Left Out: 326.107+/-0.060 $\chi^2$/NDF:5410240.8/22

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139894.0/18

Left In: 315.346+/-0.058 $\chi^2$/NDF:3830031.2/20

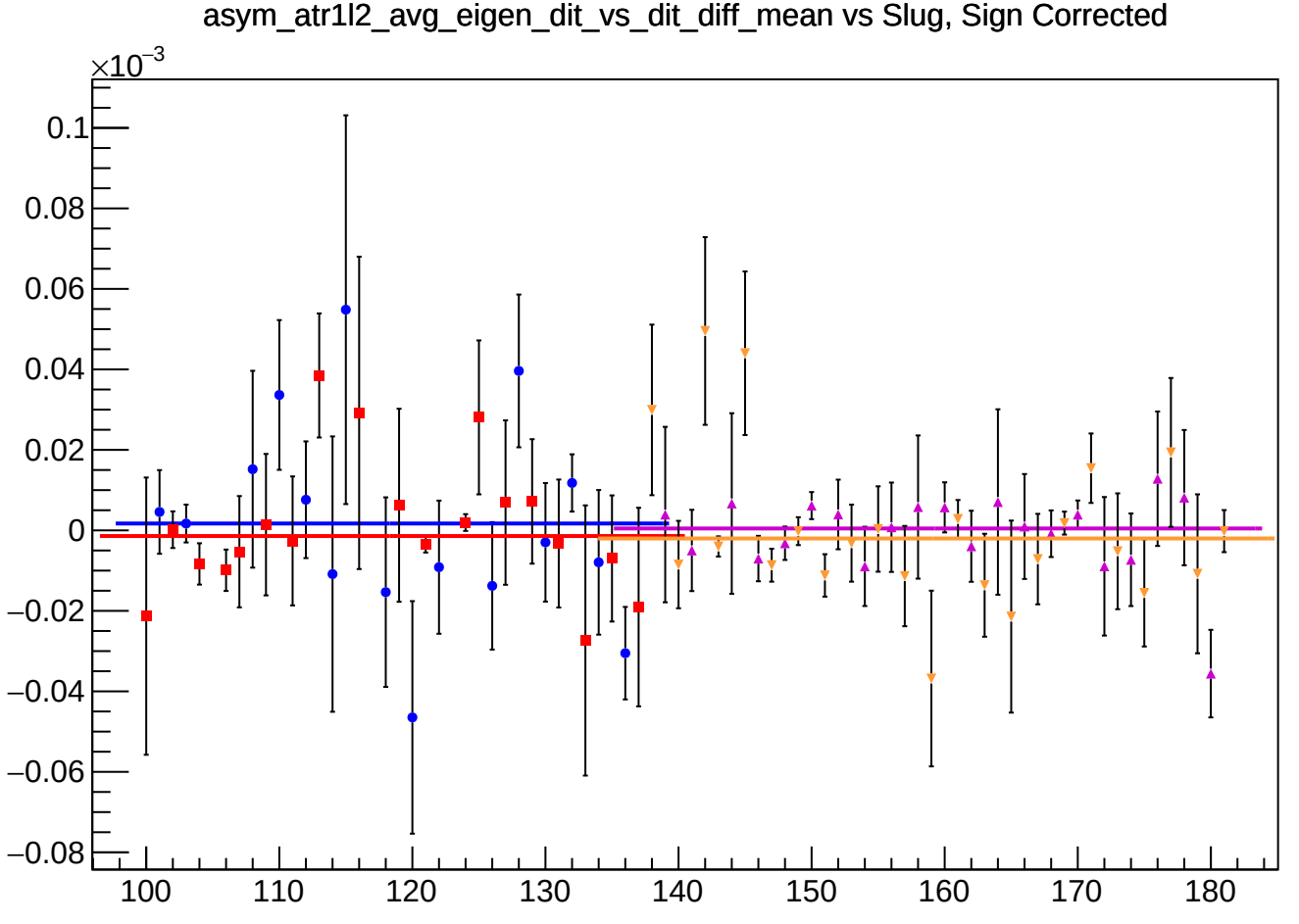
Left: 320.564+/-0.042 $\chi^2$/NDF: 9256960.1/43

Right: 127.907+/-0.027 $\chi^2$/NDF: 3514127.8/34

In: 193.710+/-0.033 $\chi^2$/NDF:11529935.6/36

Out: 174.874+/-0.031 $\chi^2$/NDF:16270855.9/41

All: 183.763+/-0.022 $\chi^2$/NDF: 27976738.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:33.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.5/20

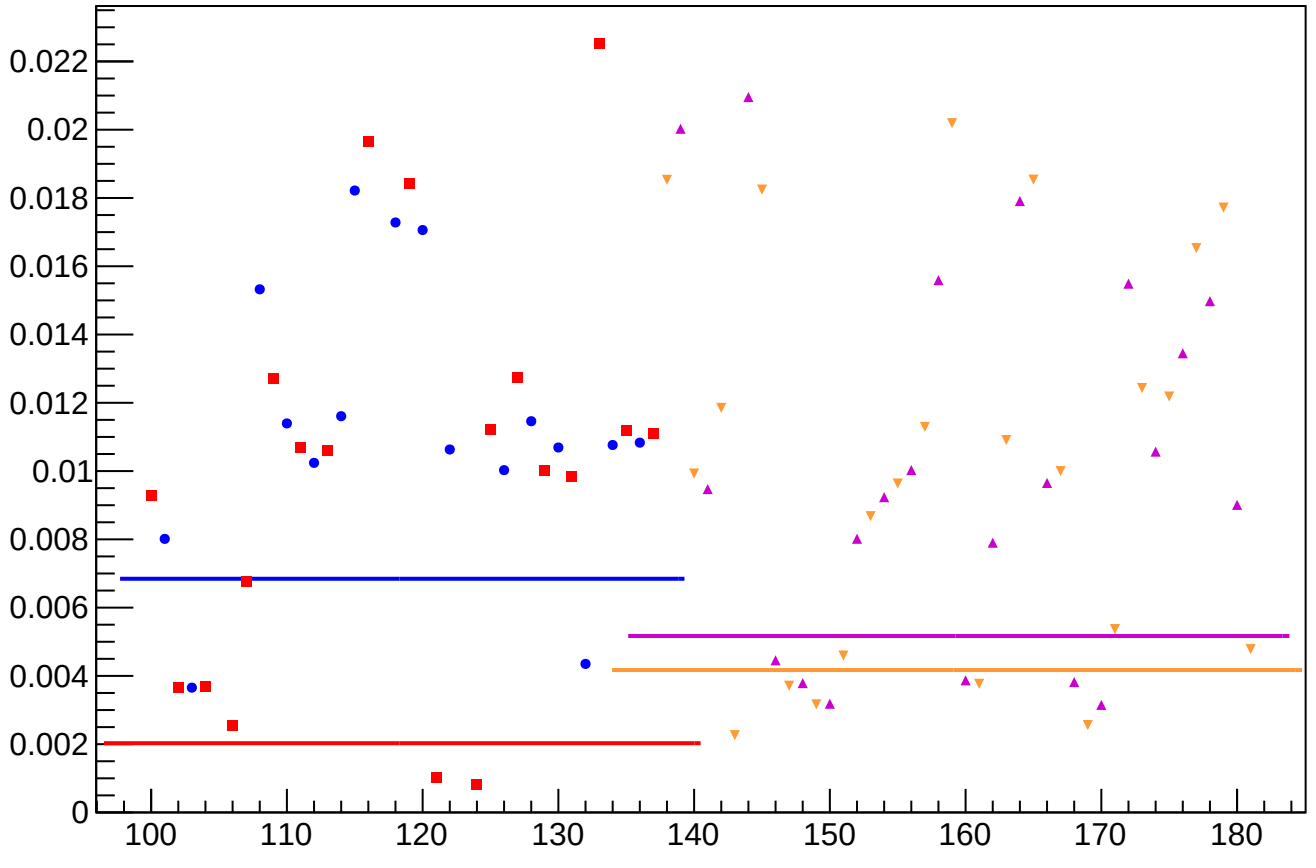
Left: -0.000+/-0.000 $\chi^2$/NDF: 56.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 45.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:45.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:54.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 101.8/78




Right In: 0.007+/-0.000 $\chi^2$/NDF: 3230112.6/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:12471832.0/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 9007527.0/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:9338999.8/20

Left: 0.005+/-0.000 $\chi^2$/NDF: 22305413.2/43

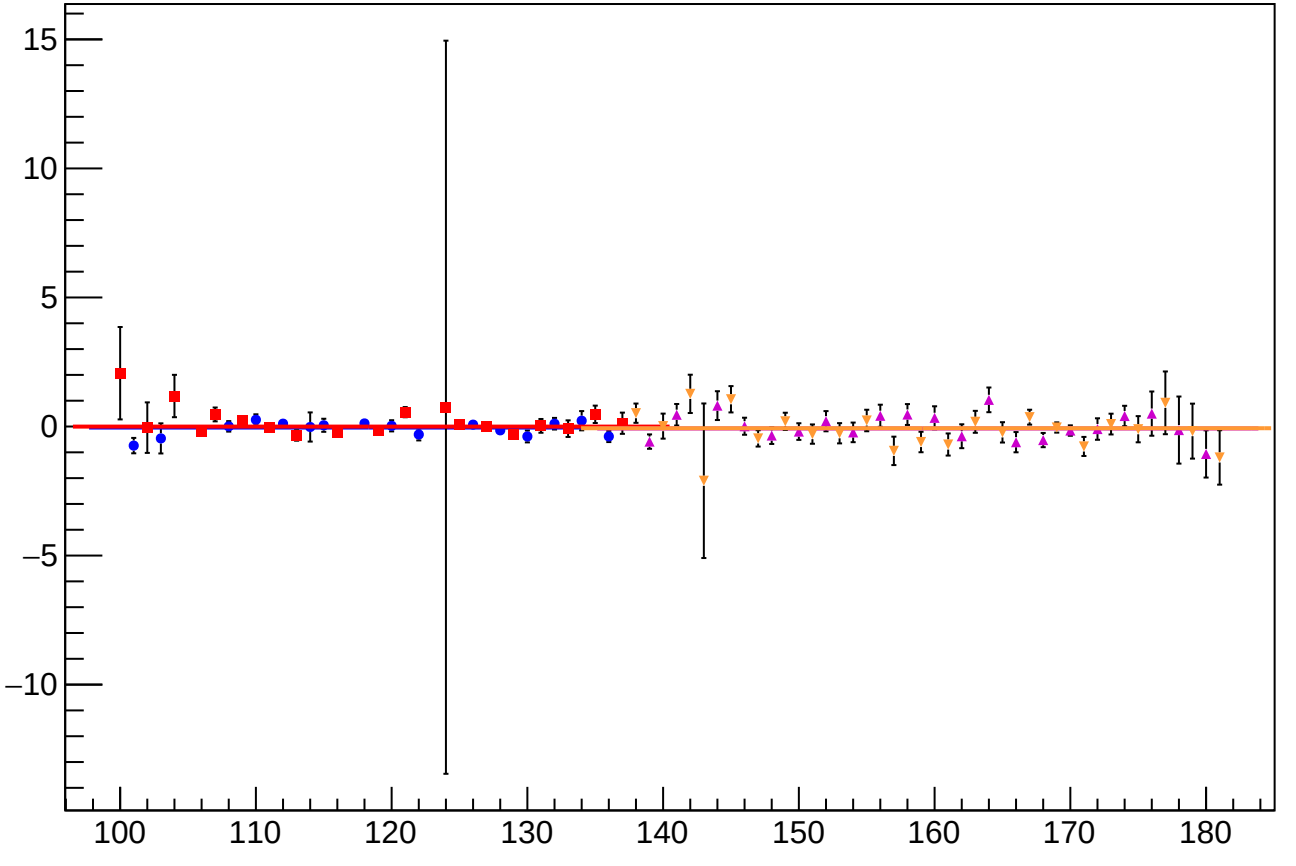
Right: 0.003+/-0.000 $\chi^2$/NDF: 16707172.2/34

In: 0.006+/-0.000 $\chi^2$/NDF:13069451.5/36

Out: 0.003+/-0.000 $\chi^2$/NDF:24380545.0/41

All: 0.004+/-0.000 $\chi^2$/NDF: 41843409.0/78

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: -0.066+/-0.085 $\chi^2$/NDF:29.2/22

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.076+/-0.082 $\chi^2$/NDF:26.6/20

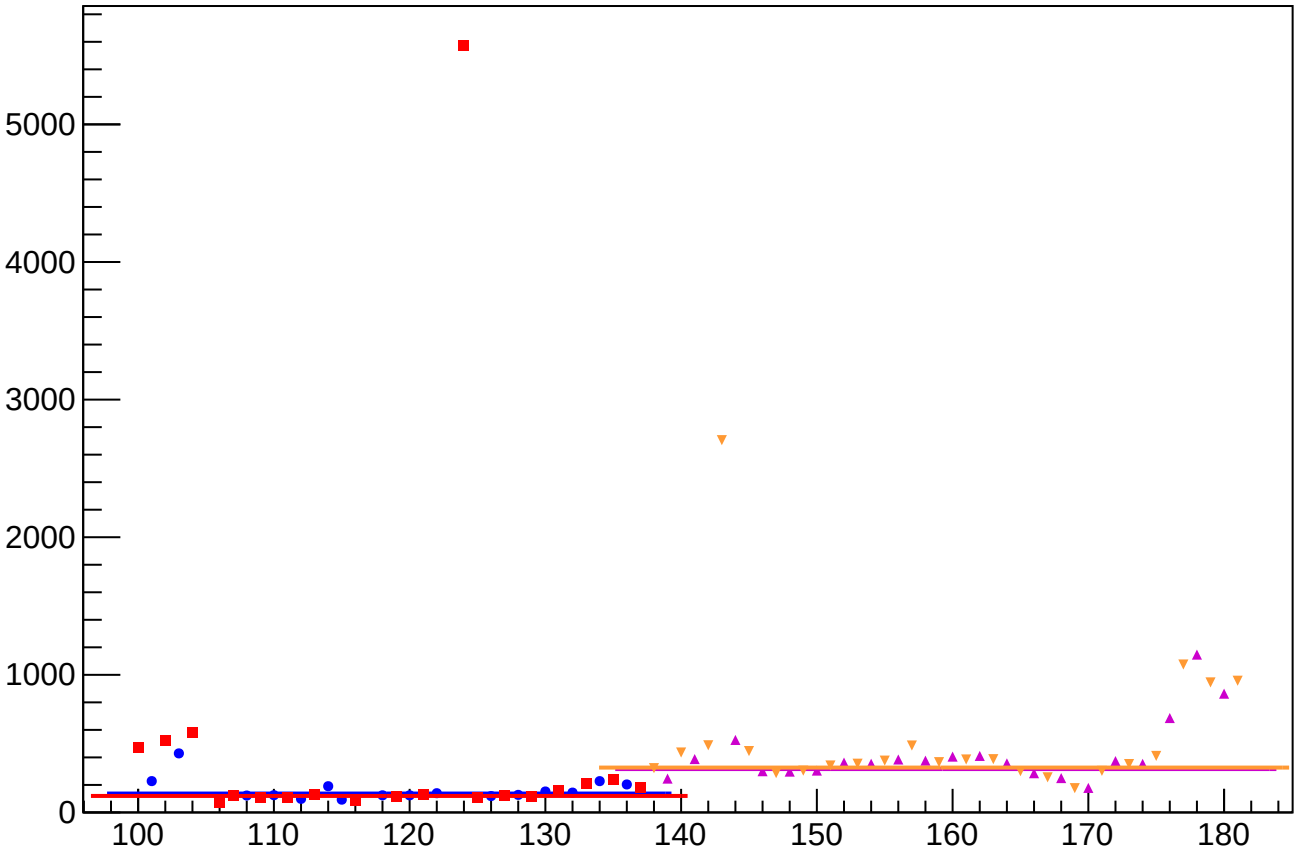
Left: -0.071+/-0.059 $\chi^2$/NDF: 55.8/43

Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.051+/-0.046 $\chi^2$/NDF:44.6/36

Out: -0.020+/-0.044 $\chi^2$/NDF:58.3/41

All: -0.035+/-0.032 $\chi^2$/NDF: 103.2/78




Right In: 137.400+/-0.039 $\chi^2$/NDF: 1268197.9/15

Left Out: 326.109+/-0.060 $\chi^2$/NDF:5410293.3/22

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139820.8/18

Left In: 315.349+/-0.058 $\chi^2$/NDF:3830031.3/20

Left: 320.567+/-0.042 $\chi^2$/NDF: 9257009.5/43

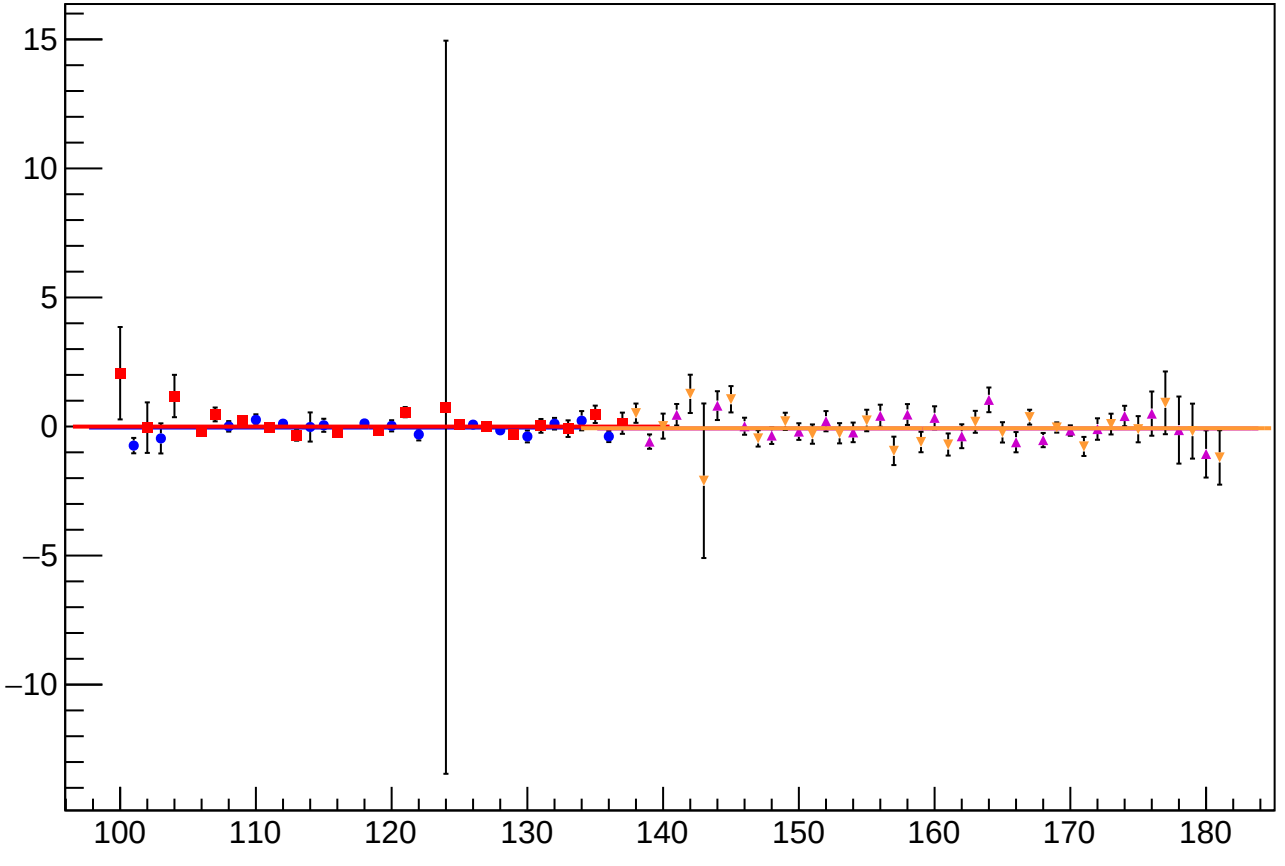
Right: 127.907+/-0.027 $\chi^2$/NDF: 3514005.7/34

In: 193.712+/-0.033 $\chi^2$/NDF:11529911.8/36

Out: 174.874+/-0.031 $\chi^2$/NDF:16270916.4/41

All: 183.763+/-0.022 $\chi^2$/NDF: 27976799.4/78

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: -0.066+/-0.085 $\chi^2$/NDF:29.2/22

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.076+/-0.082 $\chi^2$/NDF:26.6/20

Left: -0.071+/-0.059 $\chi^2$/NDF: 55.8/43

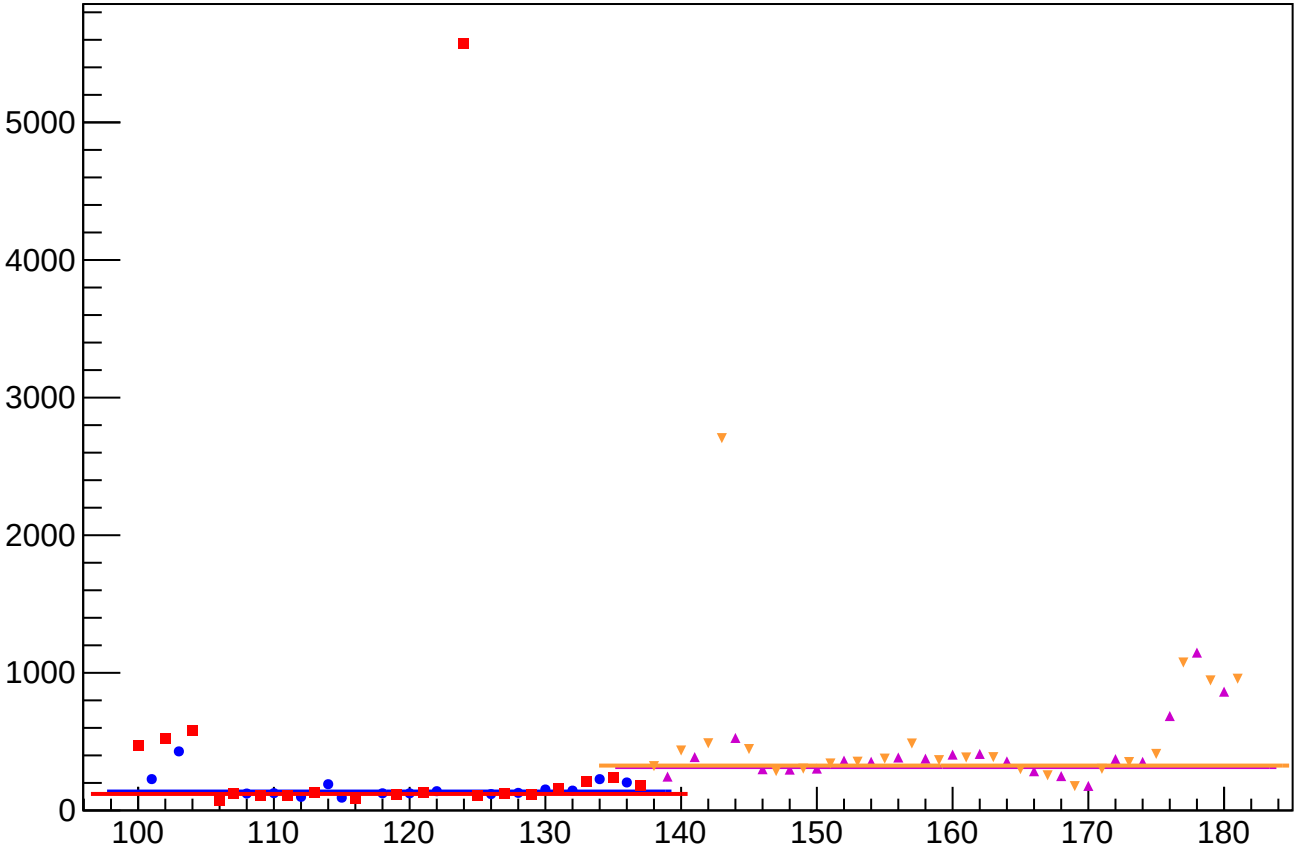
Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.051+/-0.046 $\chi^2$/NDF:44.6/36

Out: -0.020+/-0.044 $\chi^2$/NDF:58.3/41

All: -0.035+/-0.032 $\chi^2$/NDF: 103.2/78

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.400+/-0.039 $\chi^2$/NDF: 1268197.9/15

Left Out: 326.109+/-0.060 $\chi^2$/NDF:5410293.3/22

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139820.8/18

Left In: 315.349+/-0.058 $\chi^2$/NDF:3830031.3/20

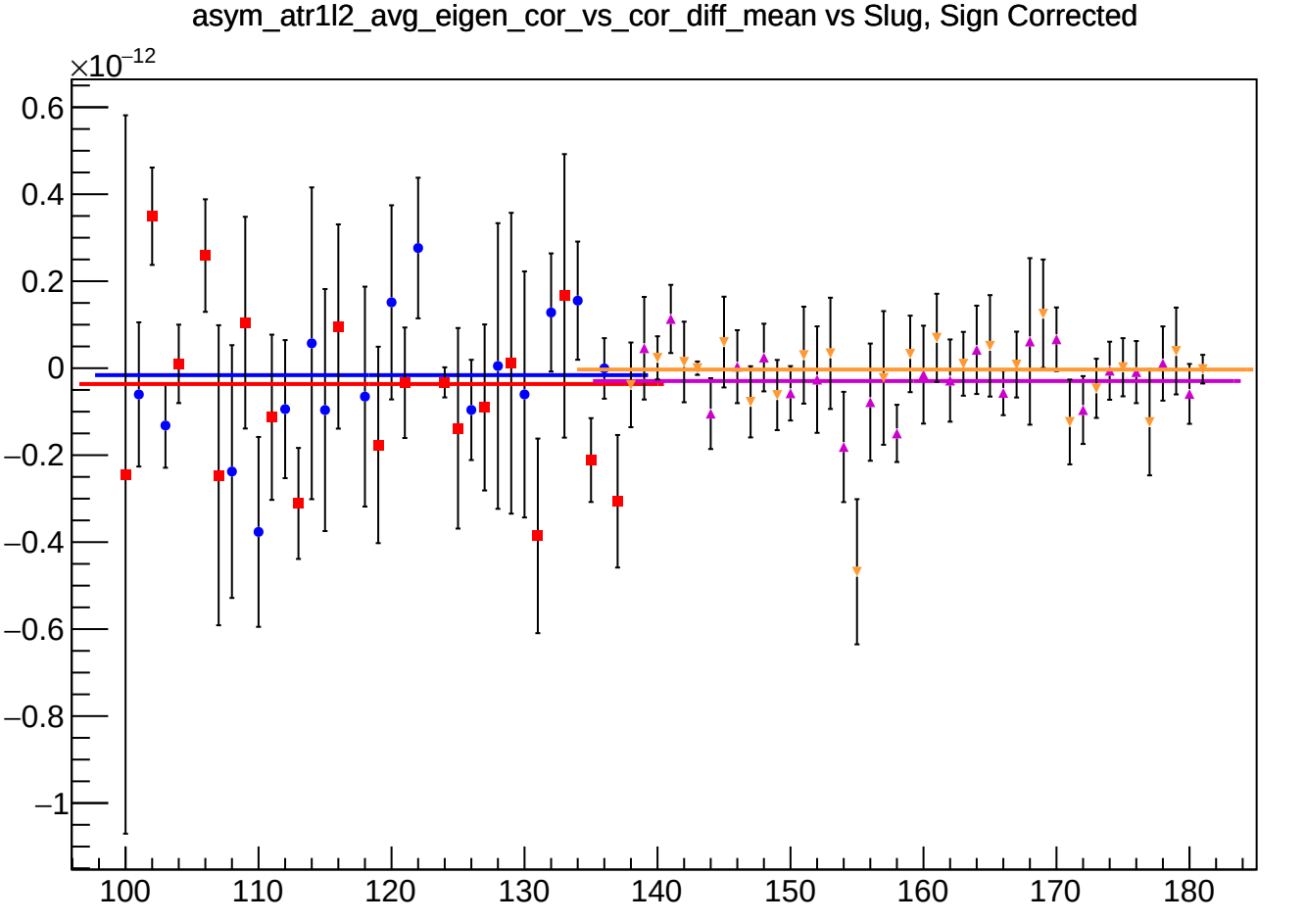
Left: 320.567+/-0.042 $\chi^2$/NDF: 9257009.5/43

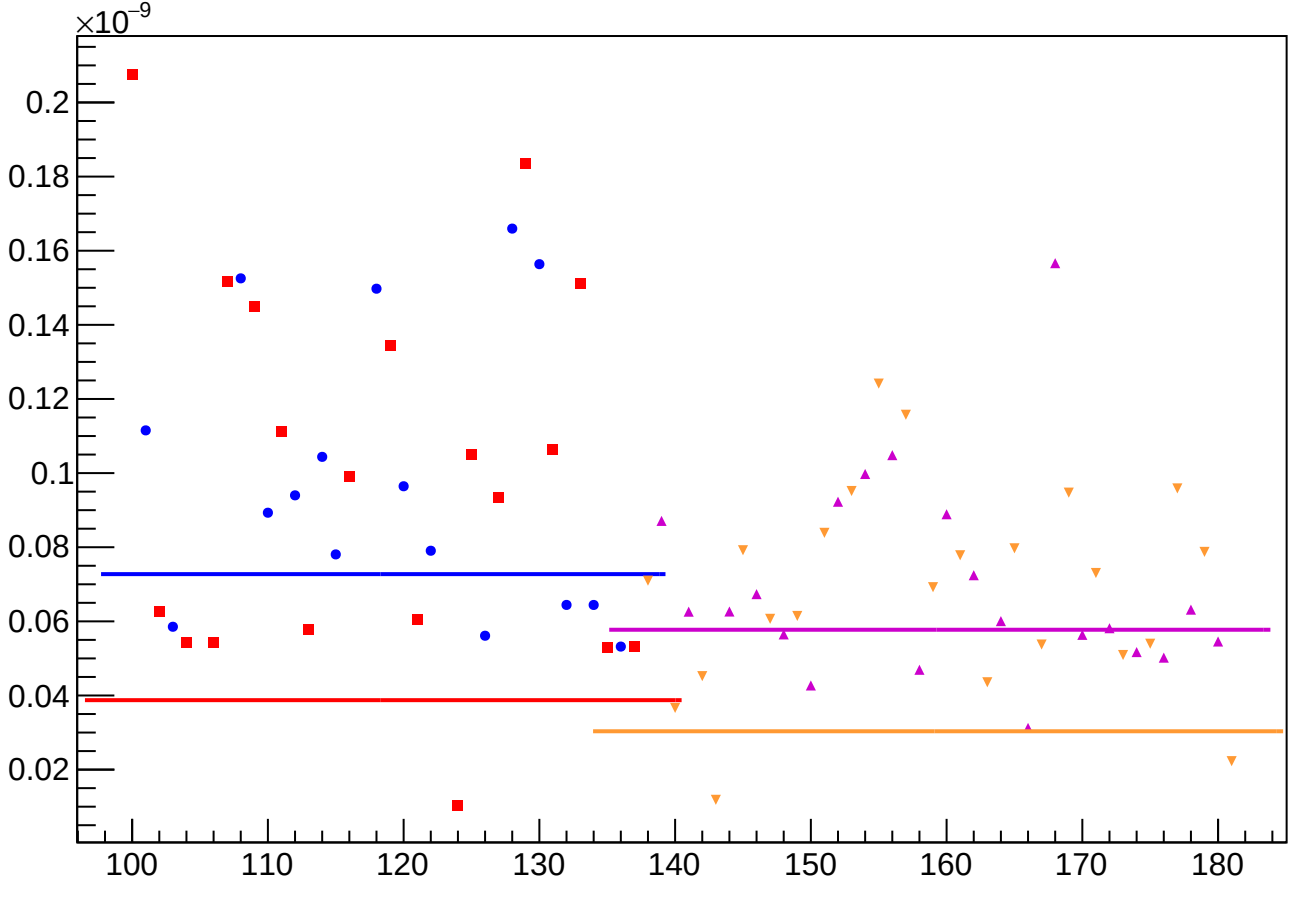
Right: 127.907+/-0.027 $\chi^2$/NDF: 3514005.7/34

In: 193.712+/-0.033 $\chi^2$/NDF:11529911.8/36

Out: 174.874+/-0.031 $\chi^2$/NDF:16270916.4/41

All: 183.763+/-0.022 $\chi^2$/NDF: 27976799.4/78


asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 12.3/15
Left Out: -0.000+/-0.000 χ²/NDF:15.3/22
Right Out: -0.000+/-0.000 χ²/NDF: 33.2/18
Left In: -0.000+/-0.000 χ²/NDF:14.4/20
Left: -0.000+/-0.000 χ²/NDF: 31.3/43
Right: -0.000+/-0.000 χ²/NDF: 45.7/34
In: -0.000+/-0.000 χ²/NDF:26.8/36
Out: -0.000+/-0.000 χ²/NDF:49.9/41
All: -0.000+/-0.000 χ²/NDF: 77.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1128031.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10495730.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4266020.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2280056.4/20

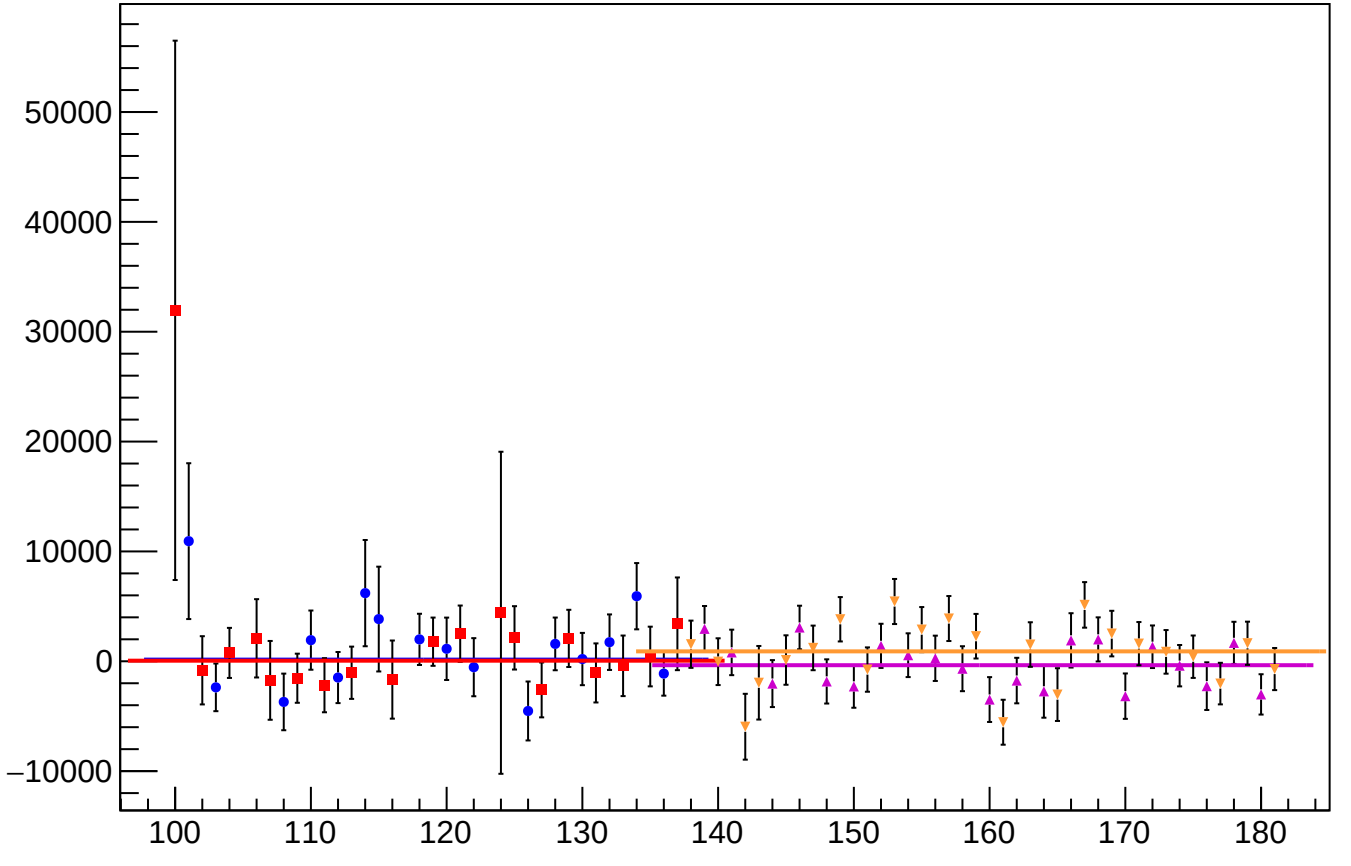
Left: 0.000+/-0.000 $\chi^2$/NDF: 16164093.7/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 6532086.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:3672876.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:14943730.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 23173829.9/78




Right In: 150.722+/-667.029 $\chi^2$/NDF: 17.7/15

Left Out: 902.180+/-437.054 $\chi^2$/NDF:38.5/22

Right Out: 54.106+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: -357.003+/-445.170 $\chi^2$/NDF:21.7/20

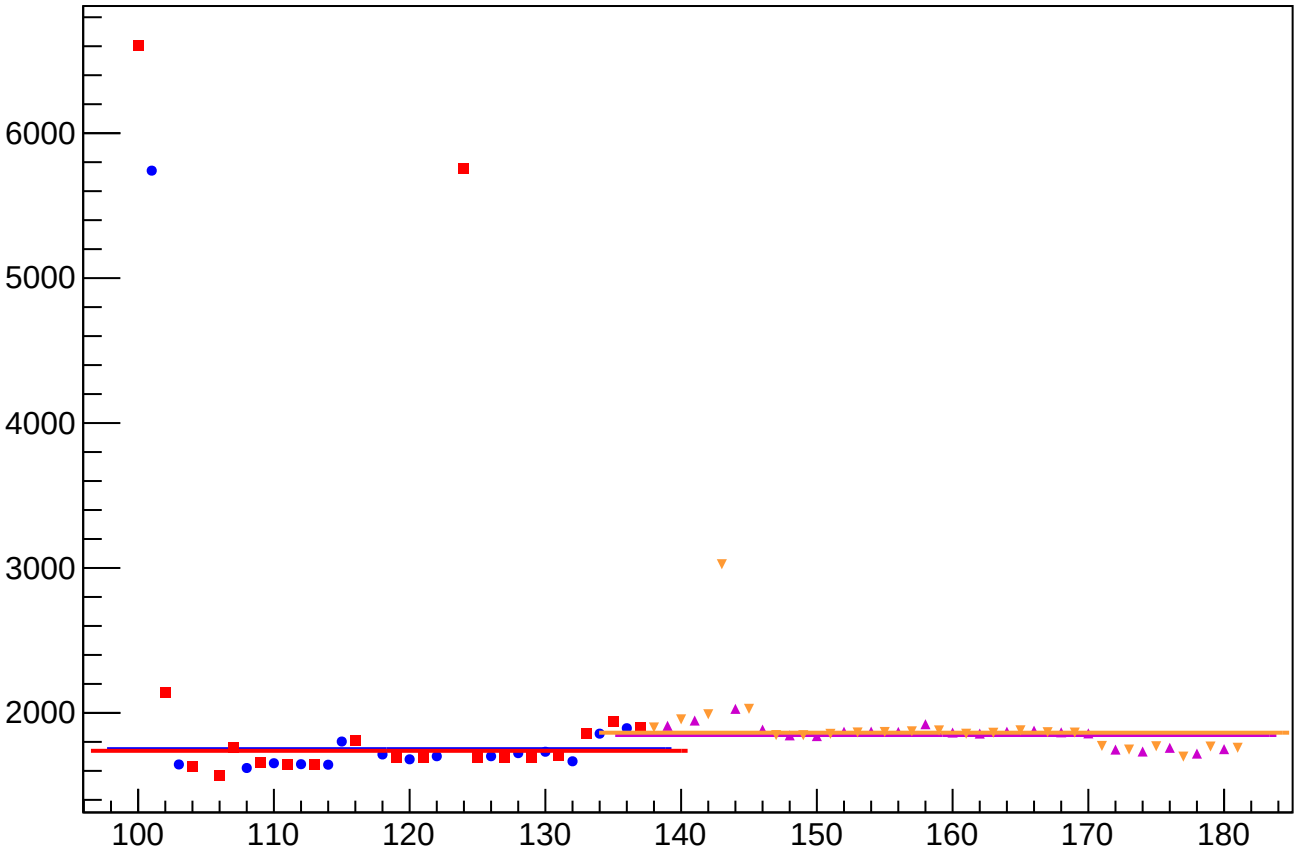
Left: 284.171+/-311.874 $\chi^2$/NDF: 64.3/43

Right: 101.554+/-467.446 $\chi^2$/NDF: 26.6/34

In: -200.545+/-370.280 $\chi^2$/NDF:39.7/36

Out: 641.060+/-363.597 $\chi^2$/NDF:48.6/41

All: 227.920+/-259.432 $\chi^2$/NDF: 91.0/78




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.0/15

Left Out: 1863.463+/-0.309 $\chi^2$/NDF:301823.8/22

Right Out: 1738.493+/-0.460 $\chi^2$/NDF: 304493.3/18

Left In: 1847.567+/-0.315 $\chi^2$/NDF:56391.3/20

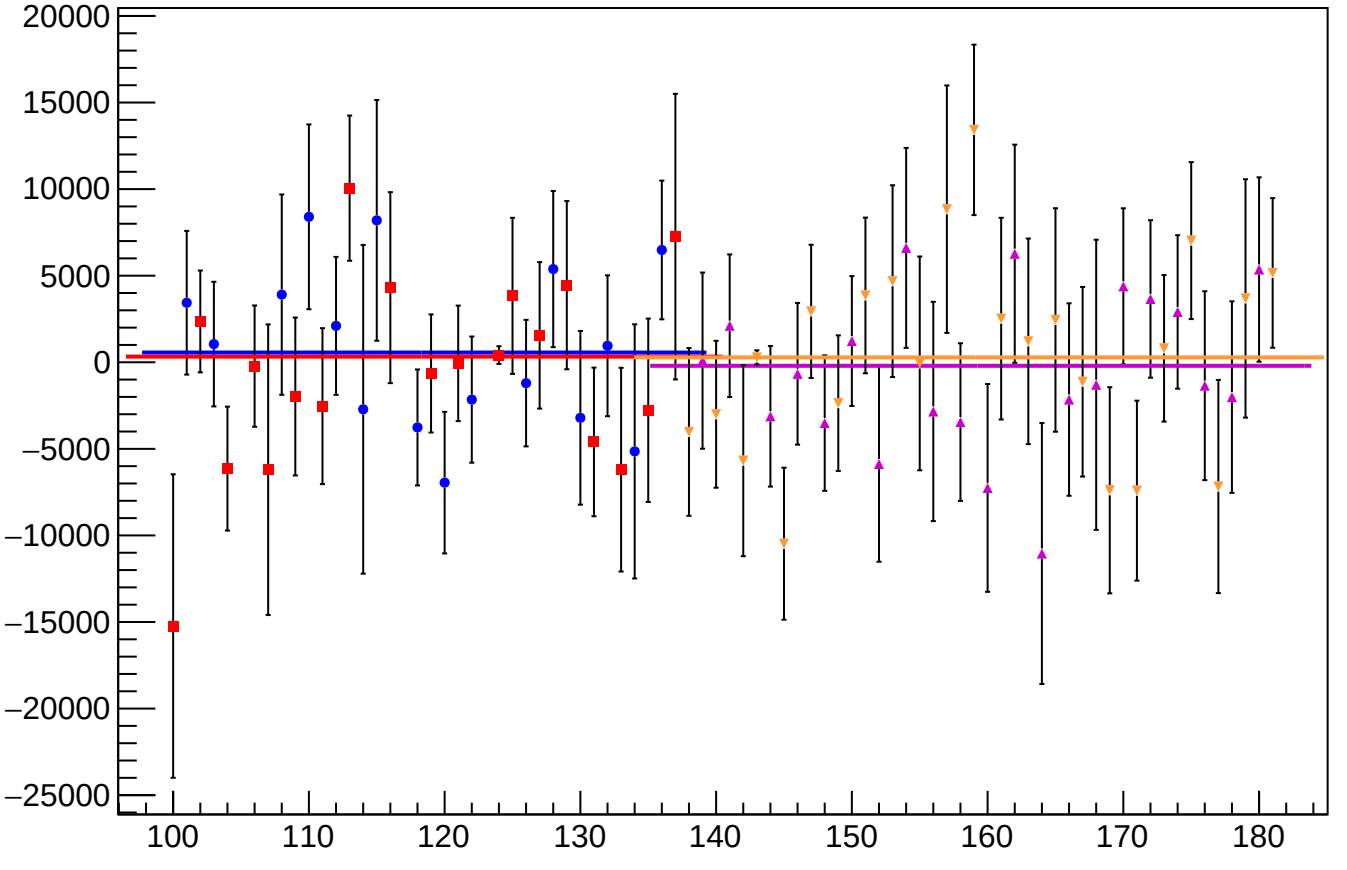
Left: 1855.661+/-0.221 $\chi^2$/NDF: 359513.5/43

Right: 1744.036+/-0.329 $\chi^2$/NDF: 974367.2/34

In: 1817.459+/-0.262 $\chi^2$/NDF:755654.0/36

Out: 1824.592+/-0.257 $\chi^2$/NDF:657178.4/41

All: 1821.099+/-0.183 $\chi^2$/NDF: 1413211.0/78




Right In: 562.339+/-1101.163 $\chi^2$/NDF: 14.8/15

Left Out: 280.881+/-382.189 $\chi^2$/NDF:28.8/22

Right Out: 325.567+/-457.948 $\chi^2$/NDF: 19.2/18

Left In: -203.929+/-1080.748 $\chi^2$/NDF:12.9/20

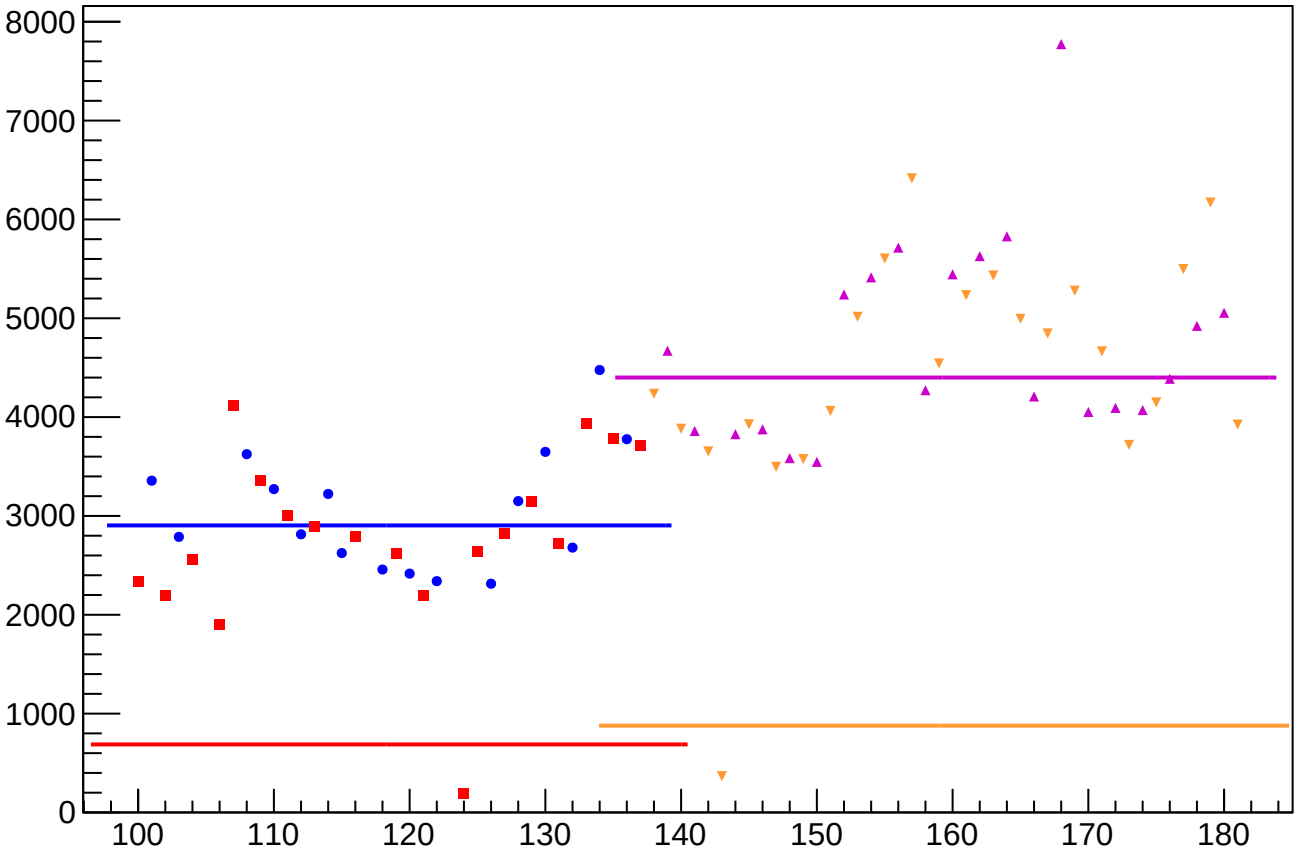
Left: 226.992+/-360.322 $\chi^2$/NDF: 41.9/43

Right: 360.479+/-422.840 $\chi^2$/NDF: 34.1/34

In: 172.036+/-771.321 $\chi^2$/NDF:28.0/36

Out: 299.227+/-293.427 $\chi^2$/NDF:48.0/41

All: 283.147+/-274.252 $\chi^2$/NDF: 76.0/78




Right In: 2904.059+/-0.779 $\chi^2$/NDF: 479774.3/15

Left Out: 878.267+/-0.270 $\chi^2$/NDF:25598326.9/22

Right Out: 688.319+/-0.324 $\chi^2$/NDF: 10148914.1/18

Left In: 4400.391+/-0.764 $\chi^2$/NDF:1112027.5/20

Left: 1269.771+/-0.255 $\chi^2$/NDF: 45590957.1/43

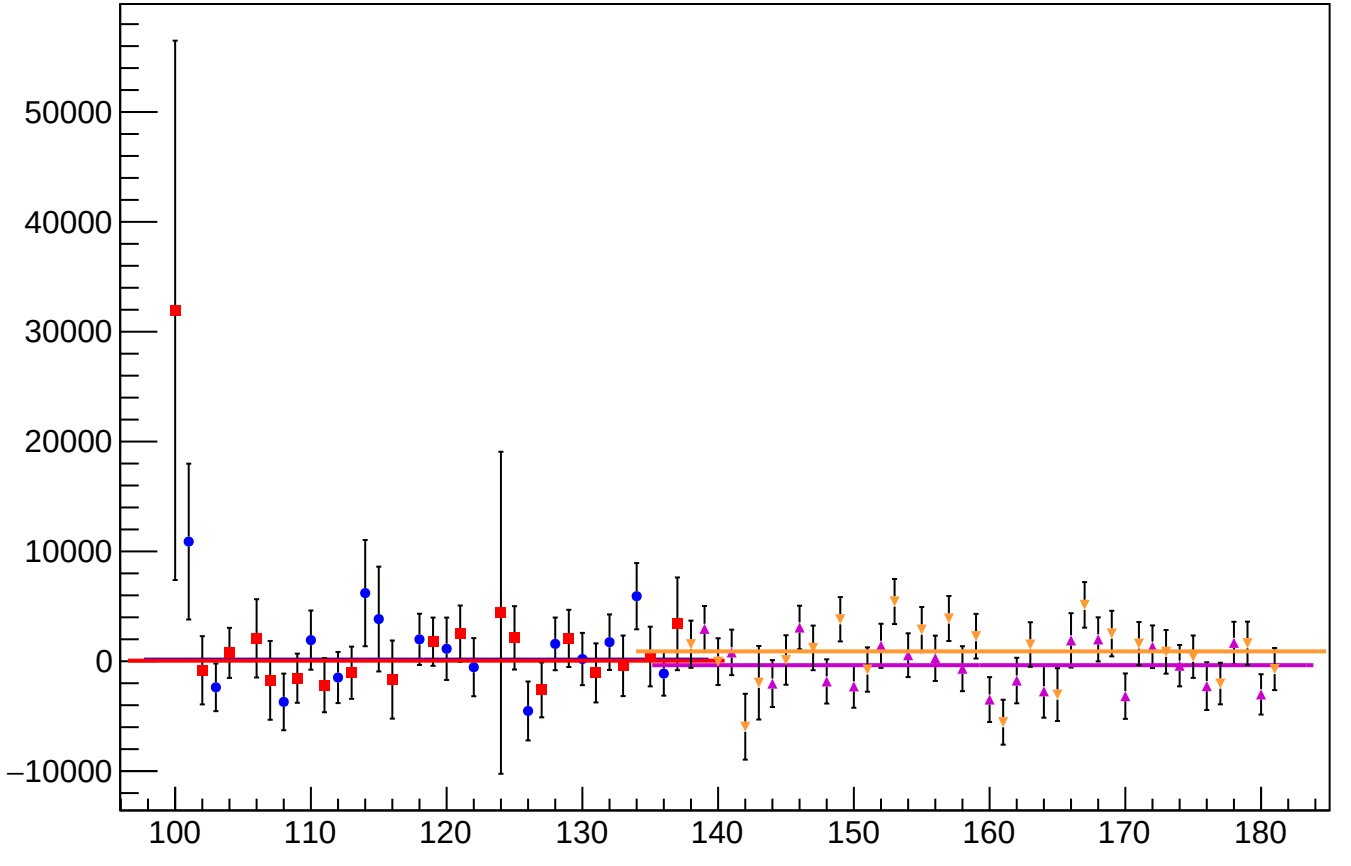
Right: 1015.033+/-0.299 $\chi^2$/NDF: 17532420.1/34

In: 3666.224+/-0.545 $\chi^2$/NDF:3472866.5/36

Out: 800.283+/-0.207 $\chi^2$/NDF:35950061.6/41

All: 1162.609+/-0.194 $\chi^2$/NDF: 63543897.9/7

# cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 150.254+/-667.029 $\chi^2$/NDF: 17.6/15

Left Out: 902.163+/-437.054 $\chi^2$/NDF:38.5/22

Right Out: 54.158+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: -356.926+/-445.170 $\chi^2$/NDF:21.7/20

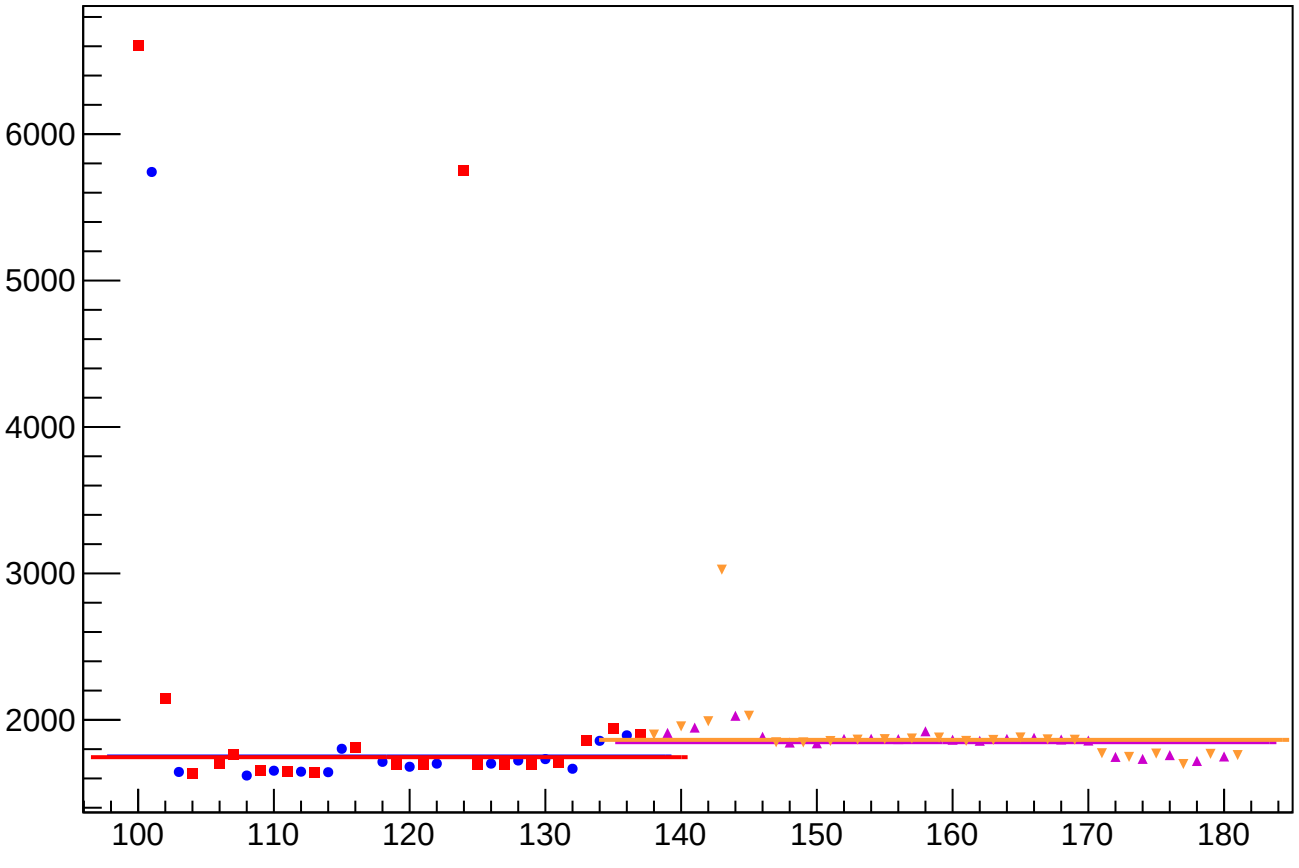
Left: 284.200+/-311.874 $\chi^2$/NDF: 64.3/43

Right: 101.351+/-467.446 $\chi^2$/NDF: 26.6/34

In: -200.636+/-370.280 $\chi^2$/NDF:39.7/36

Out: 641.064+/-363.597 $\chi^2$/NDF:48.6/41

All: 227.878+/-259.433 $\chi^2$/NDF: 91.0/78




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.1/15

Left Out: 1863.463+/-0.309 $\chi^2$/NDF:301823.8/22

Right Out: 1745.188+/-0.462 $\chi^2$/NDF: 297979.0/18

Left In: 1847.567+/-0.315 $\chi^2$/NDF:56391.3/20

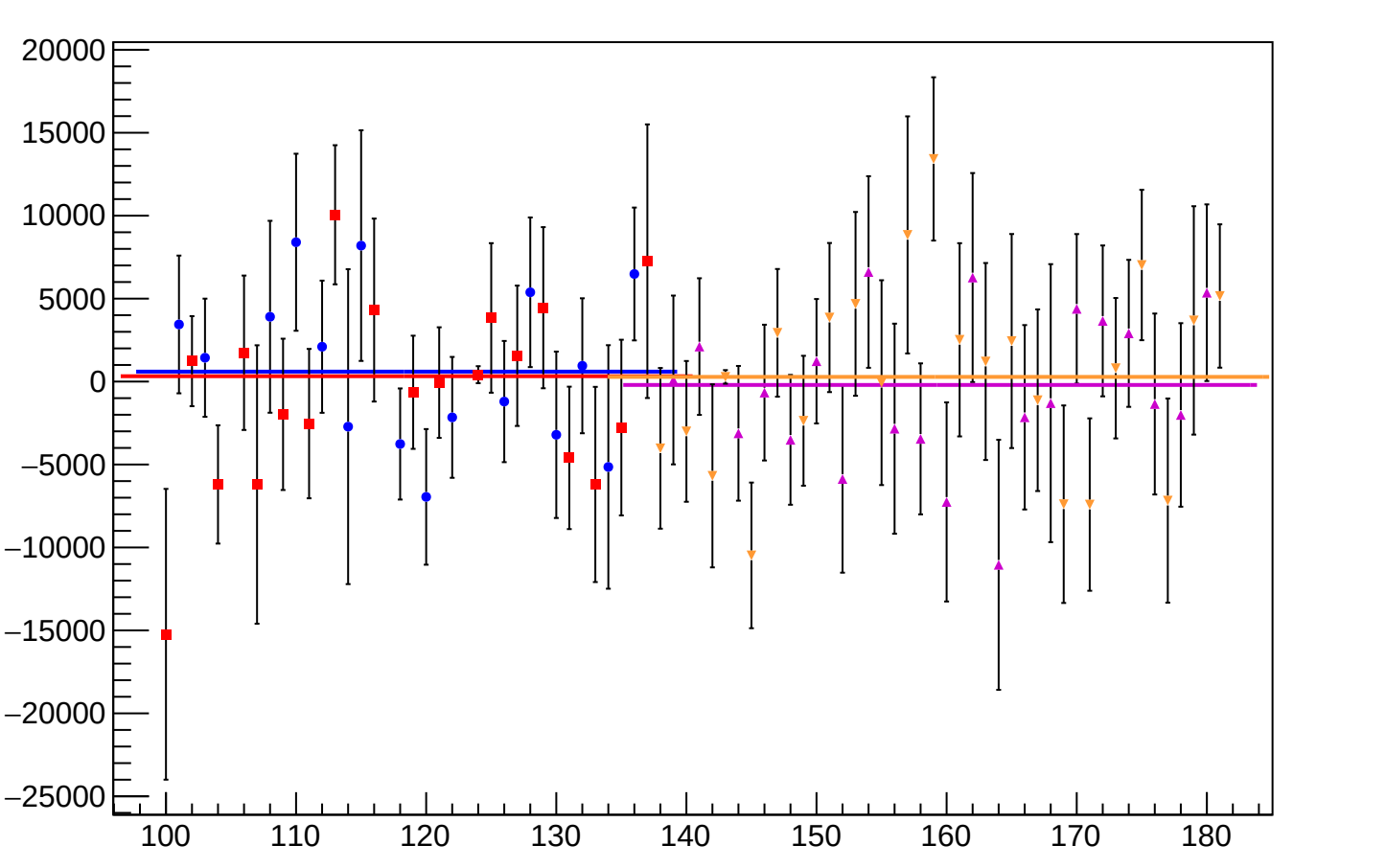
Left: 1855.661+/-0.221 $\chi^2$/NDF: 359513.5/43

Right: 1747.476+/-0.330 $\chi^2$/NDF: 967605.3/34

In: 1817.459+/-0.262 $\chi^2$/NDF:755654.4/36

Out: 1826.857+/-0.257 $\chi^2$/NDF:645133.8/41

All: 1822.249+/-0.183 $\chi^2$/NDF: 1401444.8/78




Right In: 600.202+/-1100.125 $\chi^2$/NDF: 14.9/15

Left Out: 281.793+/-382.218 $\chi^2$/NDF:28.8/22

Right Out: 323.164+/-458.862 $\chi^2$/NDF: 19.0/18

Left In: -203.988+/-1080.746 $\chi^2$/NDF:12.9/20

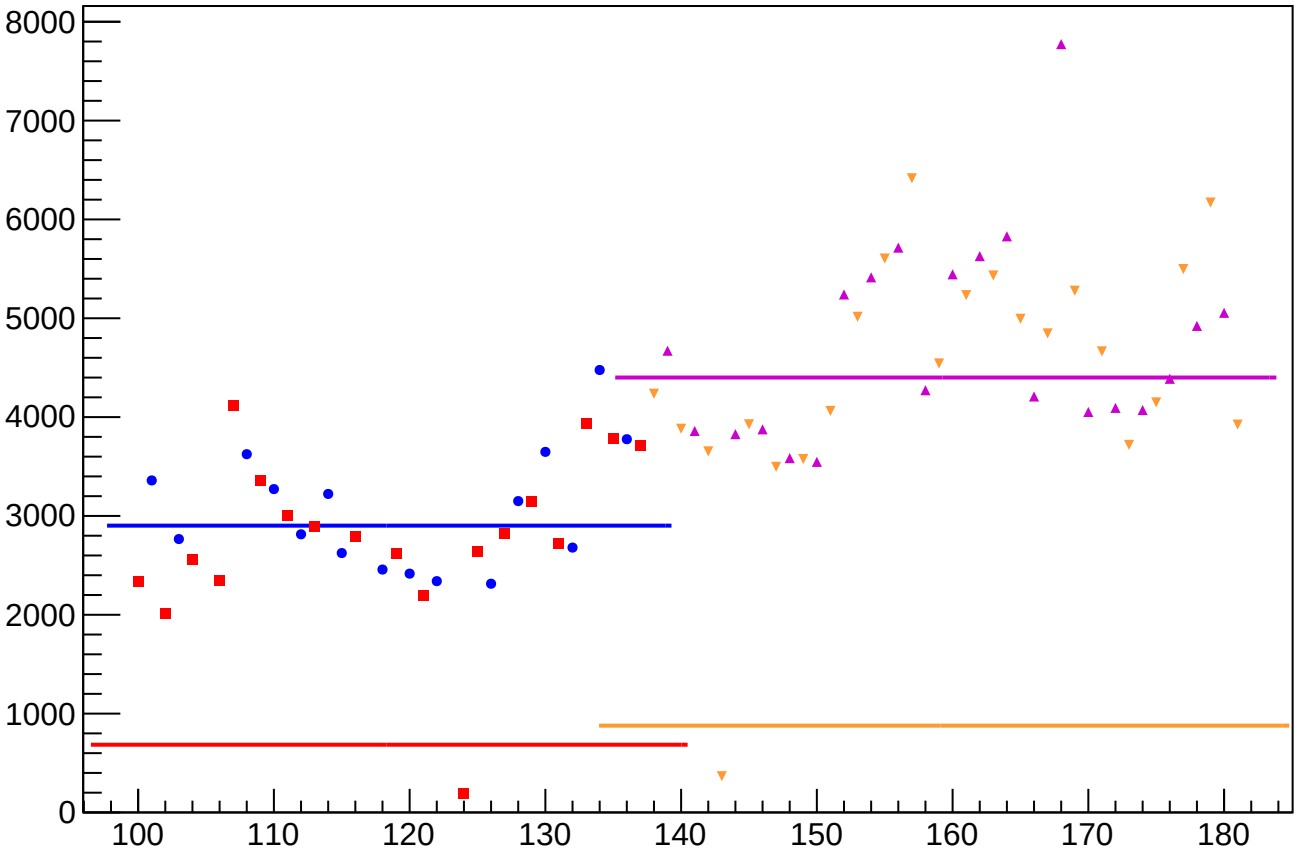
Left: 227.788+/-360.347 $\chi^2$/NDF: 41.9/43

Right: 364.218+/-423.500 $\chi^2$/NDF: 33.9/34

In: 190.962+/-770.963 $\chi^2$/NDF:28.1/36

Out: 298.740+/-293.681 $\chi^2$/NDF:47.8/41

All: 285.082+/-274.443 $\chi^2$/NDF: 75.8/78




Right In: 2901.861+/-0.778 $\chi^2$/NDF: 480934.2/15

Left Out: 878.382+/-0.270 $\chi^2$/NDF:25597277.5/22

Right Out: 685.257+/-0.324 $\chi^2$/NDF: 10105797.4/18

Left In: 4400.380+/-0.764 $\chi^2$/NDF:1112042.0/20

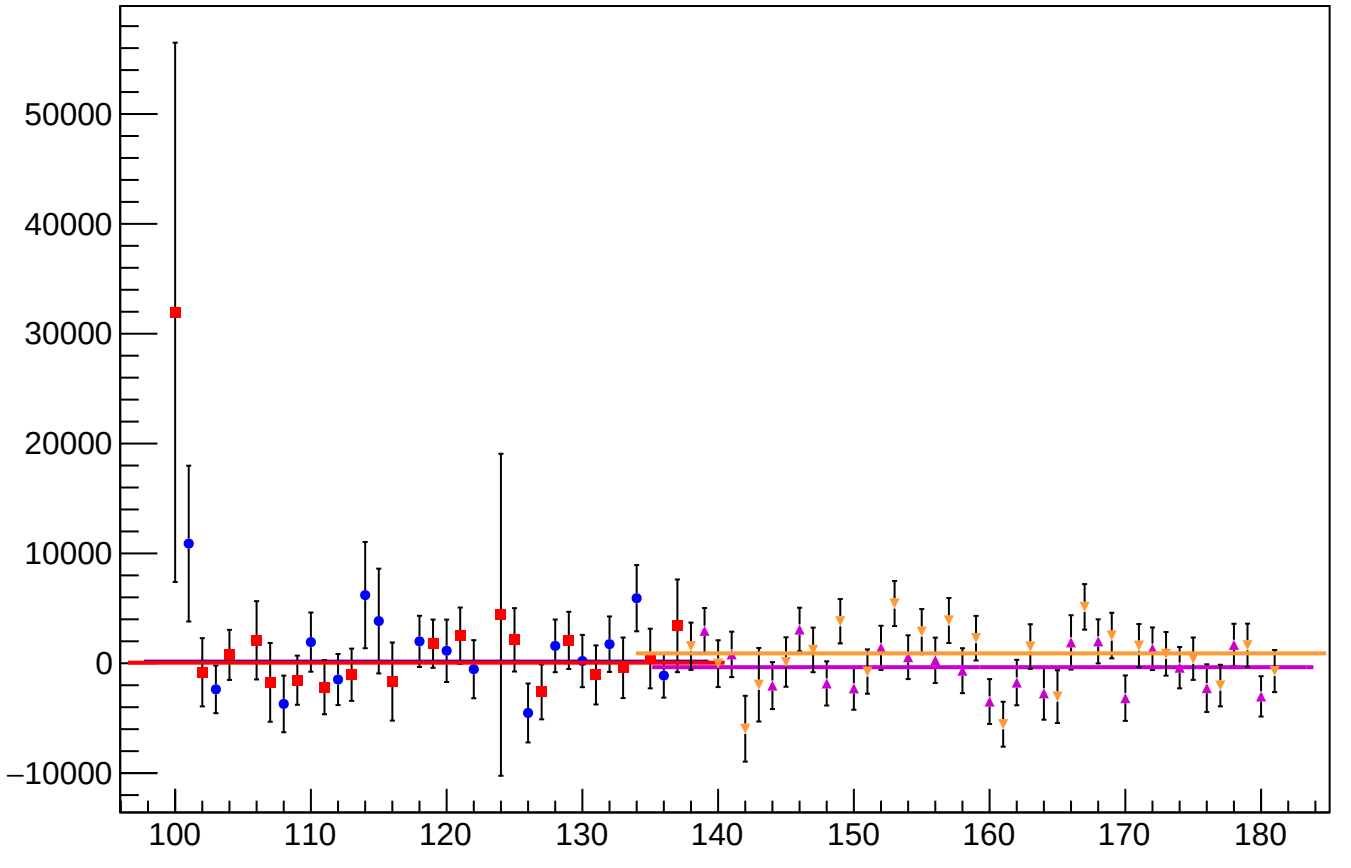
Left: 1269.928+/-0.255 $\chi^2$/NDF: 45588323.5/43

Right: 1013.738+/-0.299 $\chi^2$/NDF: 17502877.4/34

In: 3664.436+/-0.545 $\chi^2$/NDF:3481359.9/36

Out: 799.273+/-0.208 $\chi^2$/NDF:35912231.2/41

All: 1162.341+/-0.194 $\chi^2$/NDF: 63515733.0/7




Right In: 150.254+/-667.029 $\chi^2$/NDF: 17.6/15

Left Out: 902.163+/-437.054 $\chi^2$/NDF:38.5/22

Right Out: 54.158+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: -356.926+/-445.170 $\chi^2$/NDF:21.7/20

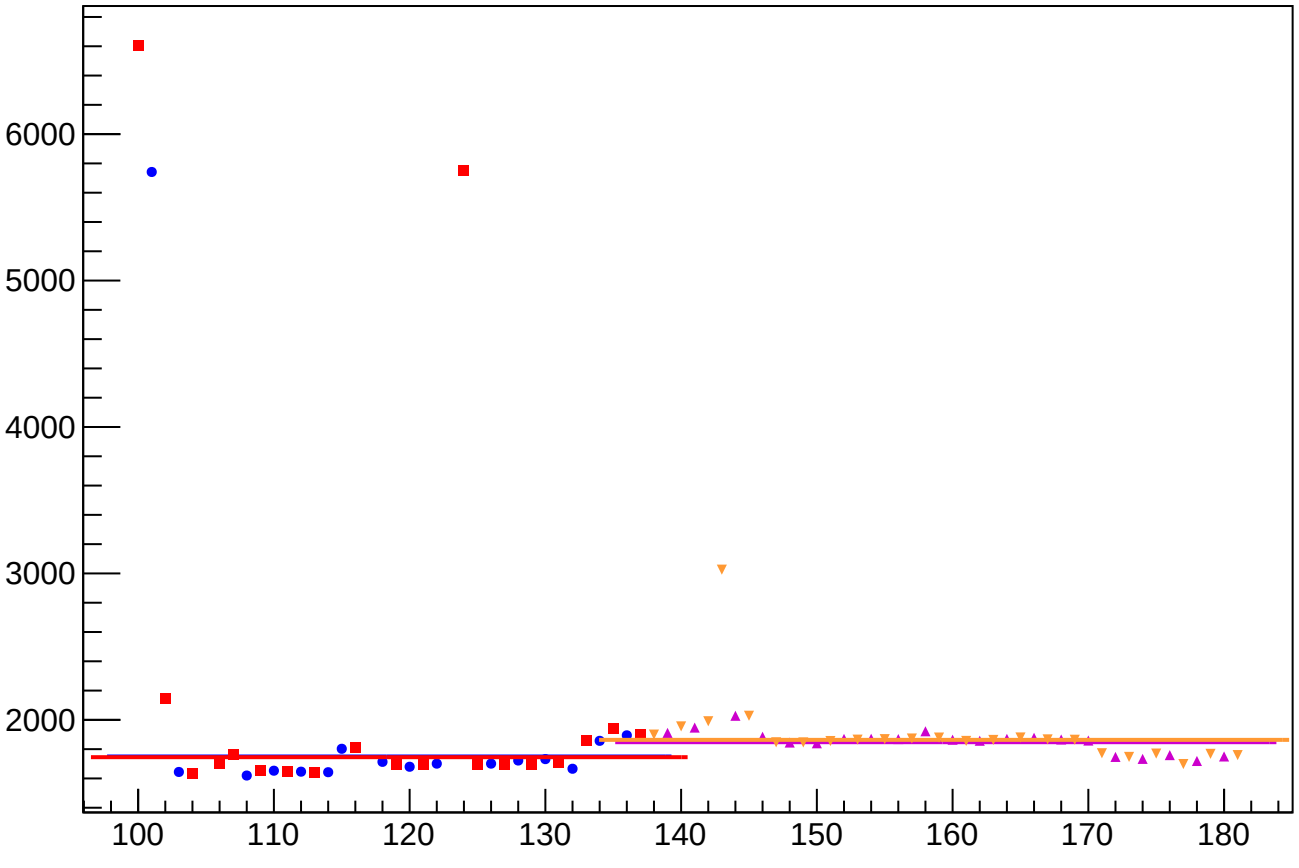
Left: 284.200+/-311.874 $\chi^2$/NDF: 64.3/43

Right: 101.351+/-467.446 $\chi^2$/NDF: 26.6/34

In: -200.636+/-370.280 $\chi^2$/NDF:39.7/36

Out: 641.064+/-363.597 $\chi^2$/NDF:48.6/41

All: 227.878+/-259.433 $\chi^2$/NDF: 91.0/78




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.1/15

Left Out: 1863.463+/-0.309 $\chi^2$/NDF:301823.8/22

Right Out: 1745.188+/-0.462 $\chi^2$/NDF: 297979.0/18

Left In: 1847.567+/-0.315 $\chi^2$/NDF:56391.3/20

Left: 1855.661+/-0.221 $\chi^2$/NDF: 359513.5/43

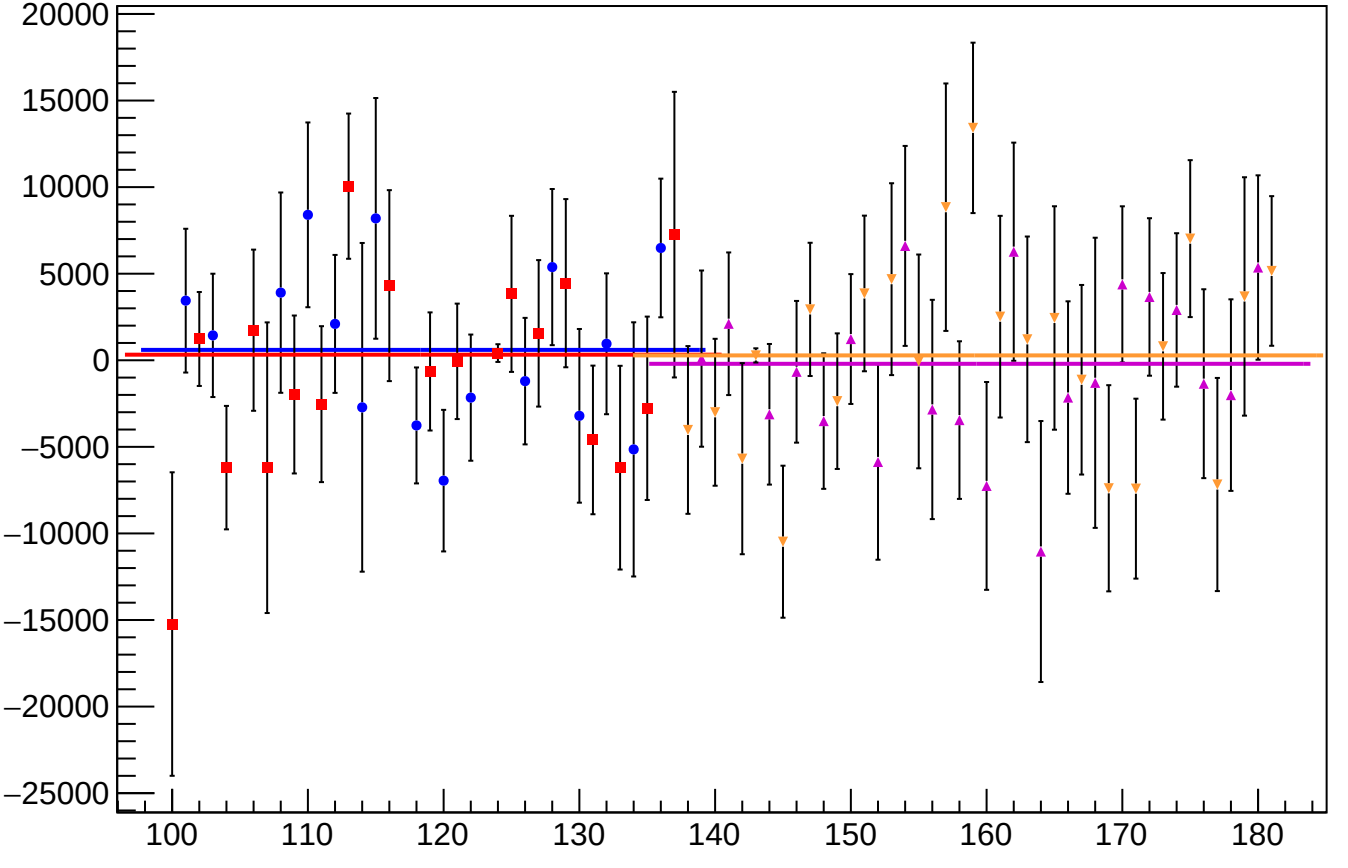
Right: 1747.476+/-0.330 $\chi^2$/NDF: 967605.3/34

In: 1817.459+/-0.262 $\chi^2$/NDF:755654.4/36

Out: 1826.857+/-0.257 $\chi^2$/NDF:645133.8/41

All: 1822.249+/-0.183 $\chi^2$/NDF: 1401444.8/78

asym_atr1l2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 600.202+/-1100.125 $\chi^2$/NDF: 14.9/15

Left Out: 281.793+/-382.218 $\chi^2$/NDF:28.8/22

Right Out: 323.164+/-458.862 $\chi^2$/NDF: 19.0/18

Left In: -203.988+/-1080.746 $\chi^2$/NDF:12.9/20

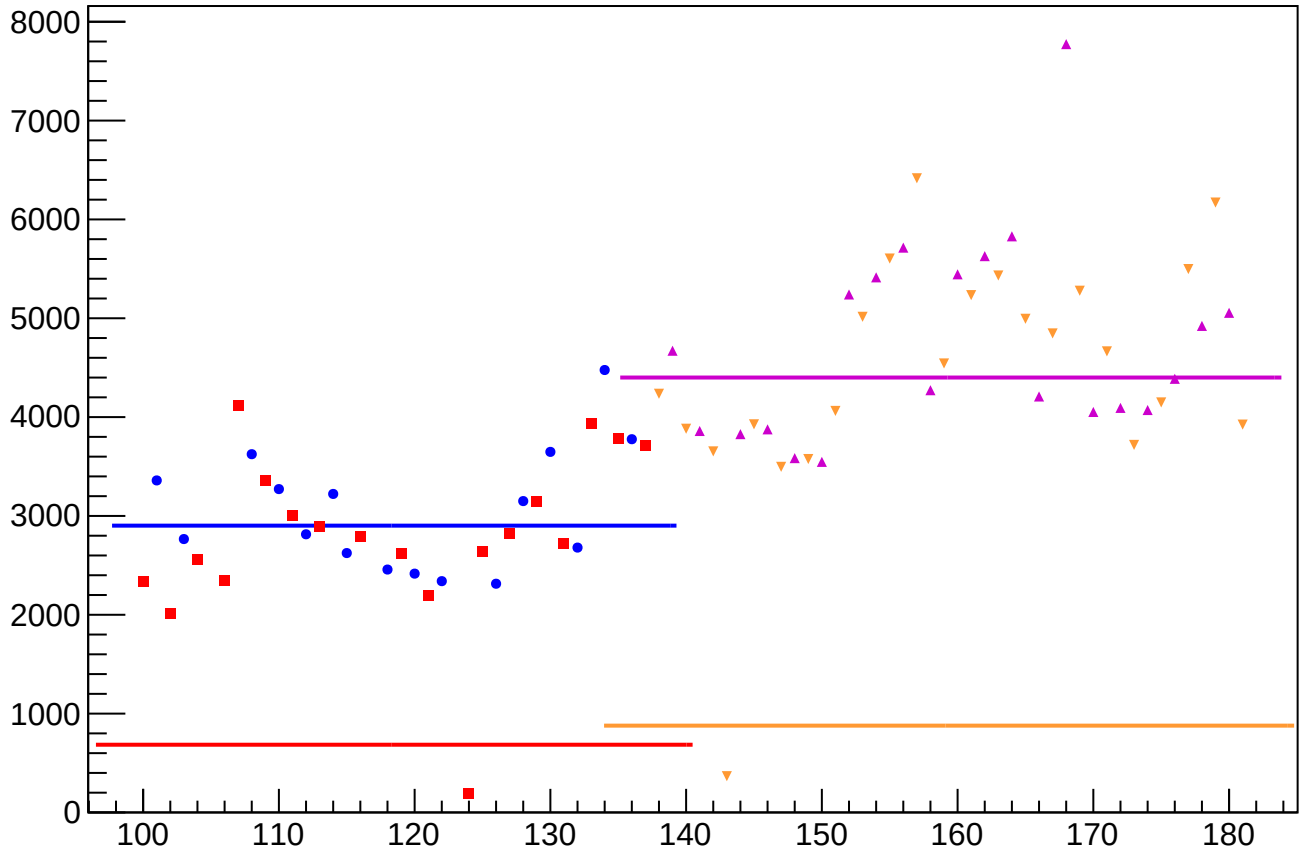
Left: 227.788+/-360.347 $\chi^2$/NDF: 41.9/43

Right: 364.218+/-423.500 $\chi^2$/NDF: 33.9/34

In: 190.962+/-770.963 $\chi^2$/NDF:28.1/36

Out: 298.740+/-293.681 $\chi^2$/NDF:47.8/41

All: 285.082+/-274.443 $\chi^2$/NDF: 75.8/78




Right In: 2901.861+/-0.778 $\chi^2$/NDF: 480934.2/15

Left Out: 878.382+/-0.270 $\chi^2$/NDF:25597277.5/22

Right Out: 685.257+/-0.324 $\chi^2$/NDF: 10105797.4/18

Left In: 4400.380+/-0.764 $\chi^2$/NDF:1112042.0/20

Left: 1269.928+/-0.255 $\chi^2$/NDF: 45588323.5/43

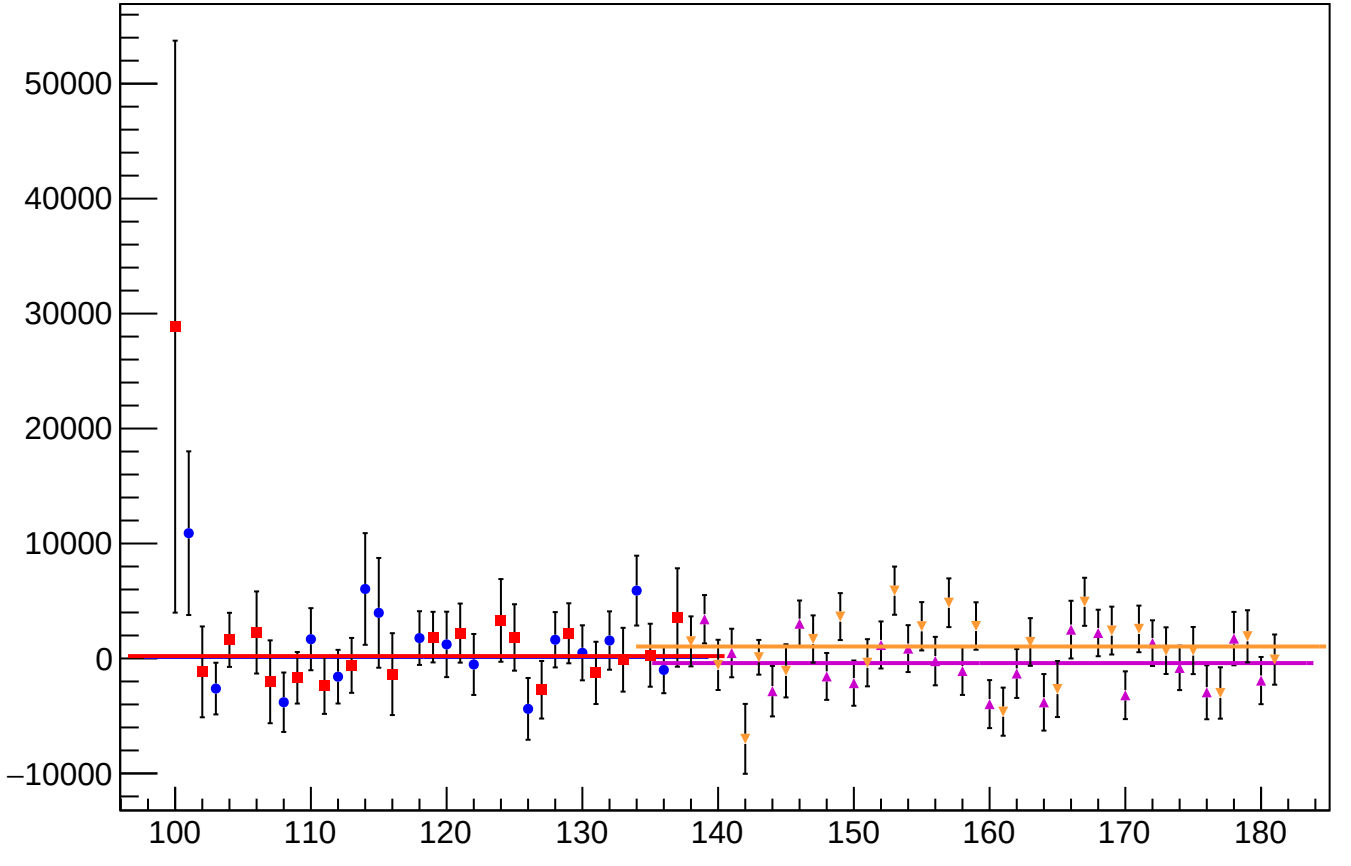
Right: 1013.738+/-0.299 $\chi^2$/NDF: 17502877.4/34

In: 3664.436+/-0.545 $\chi^2$/NDF:3481359.9/36

Out: 799.273+/-0.208 $\chi^2$/NDF:35912231.2/41

All: 1162.341+/-0.194 $\chi^2$/NDF: 63515733.0/7

# dit_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 133.838+/-671.621 $\chi^2$/NDF: 17.3/15

Left Out: 1041.761+/-438.564 $\chi^2$/NDF:39.0/22

Right Out: 205.424+/-654.444 $\chi^2$/NDF: 9.7/18

Left In: -401.569+/-460.597 $\chi^2$/NDF:23.0/20

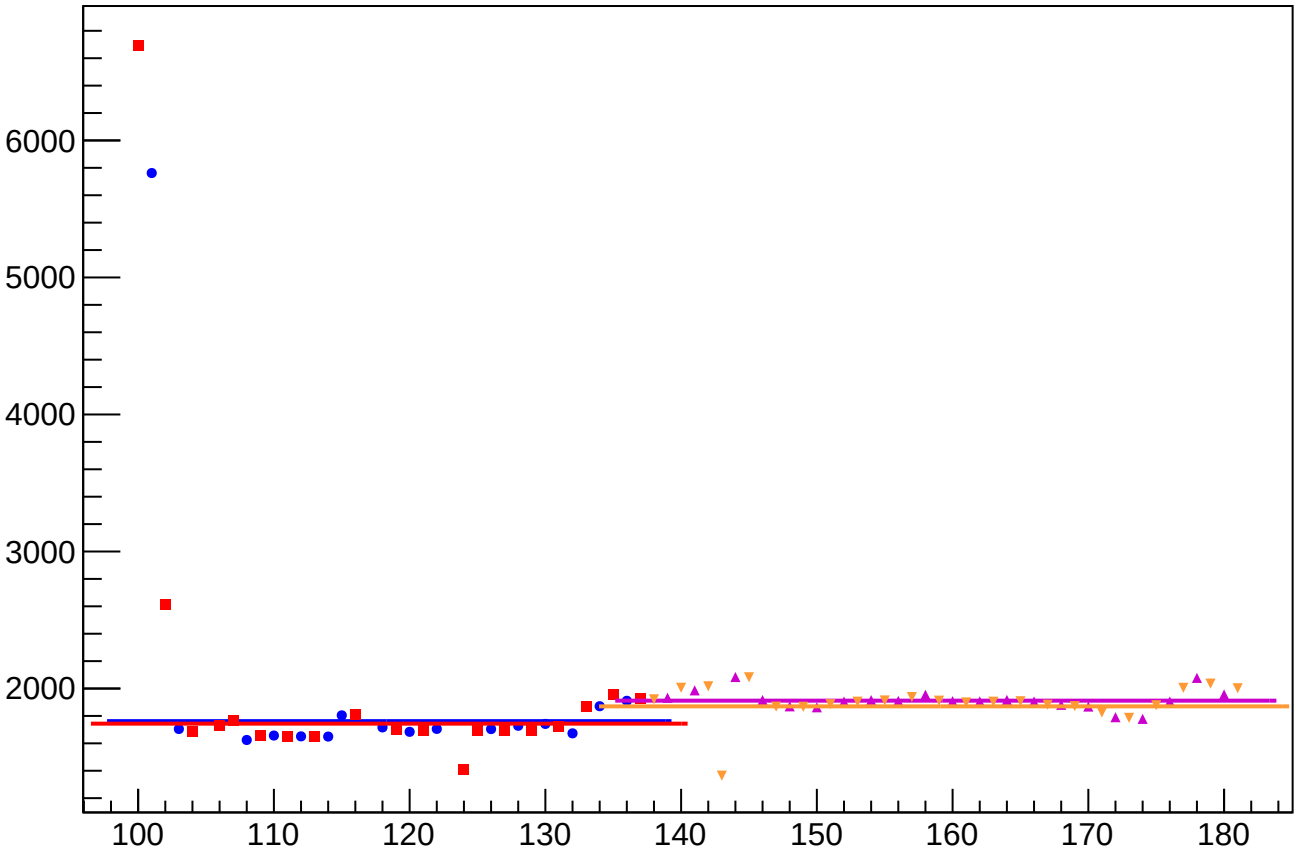
Left: 355.442+/-317.615 $\chi^2$/NDF: 67.1/43

Right: 170.558+/-468.717 $\chi^2$/NDF: 27.0/34

In: -230.305+/-379.852 $\chi^2$/NDF:40.7/36

Out: 782.576+/-364.323 $\chi^2$/NDF:49.8/41

All: 297.262+/-262.934 $\chi^2$/NDF: 94.2/78




Right In: 1762.052+/-0.475 $\chi^2$/NDF: 667696.6/15

Left Out: 1869.847+/-0.310 $\chi^2$/NDF:290197.0/22

Right Out: 1743.723+/-0.461 $\chi^2$/NDF: 227762.1/18

Left In: 1911.552+/-0.326 $\chi^2$/NDF:47422.7/20

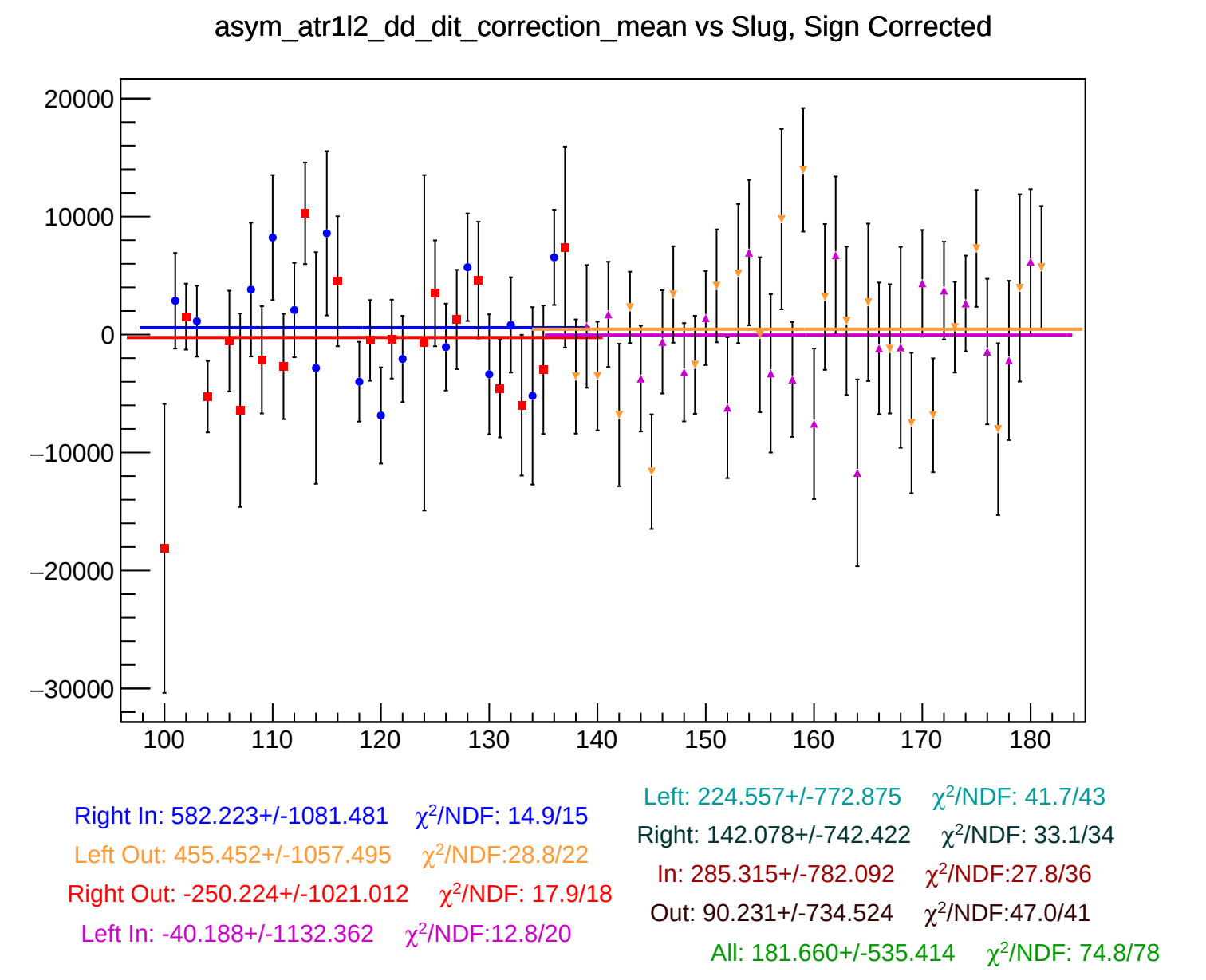
Left: 1889.678+/-0.225 $\chi^2$/NDF: 346219.8/43

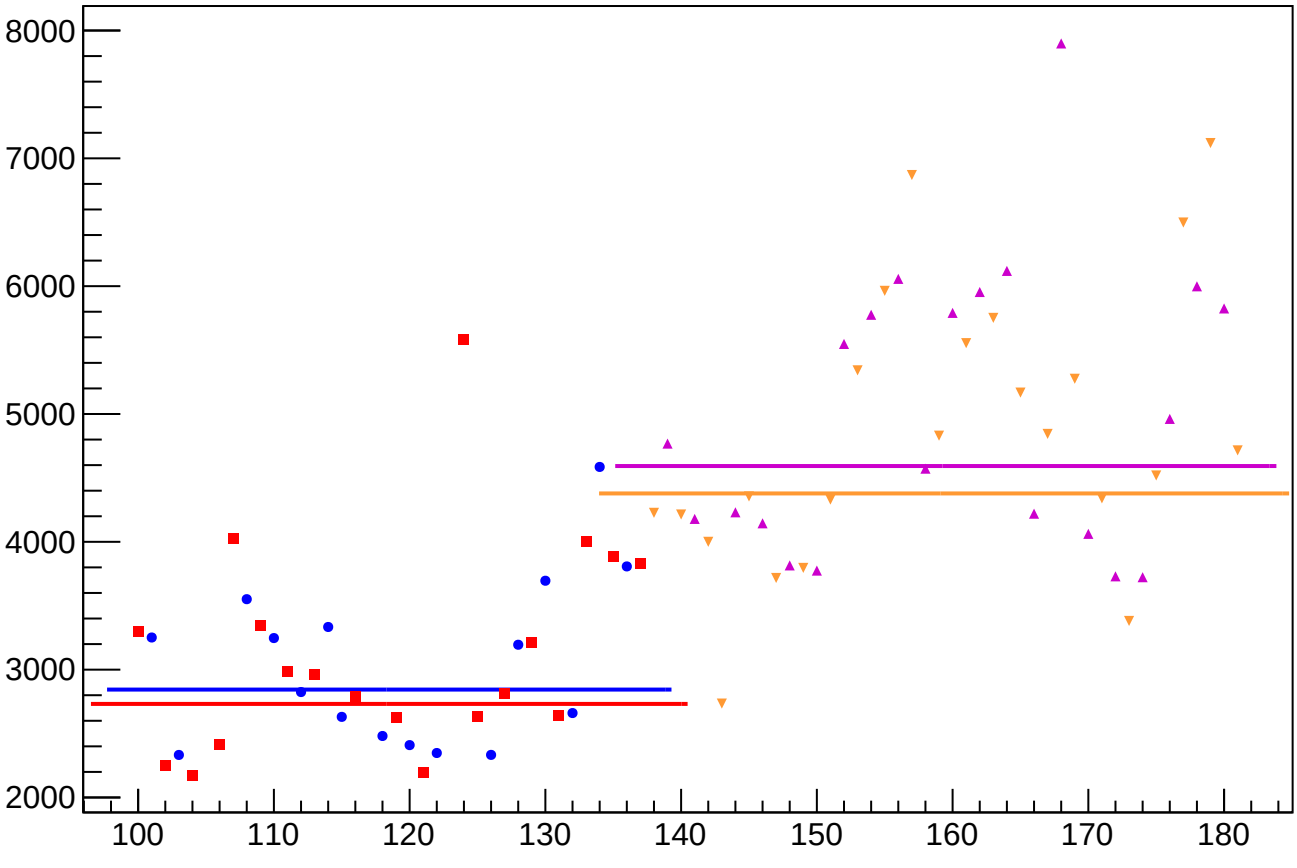
Right: 1752.624+/-0.331 $\chi^2$/NDF: 896224.9/34

In: 1863.730+/-0.269 $\chi^2$/NDF:782518.0/36

Out: 1830.604+/-0.257 $\chi^2$/NDF:569424.0/41

All: 1846.462+/-0.186 $\chi^2$/NDF: 1359871.1/78


asym_atr1l2_dd_dit_correction_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: 582.223+/-1081.481 χ²/NDF: 14.9/15
Left Out: 455.452+/-1057.495 χ²/NDF:28.8/22
Right Out: -250.224+/-1021.012 χ²/NDF: 17.9/18
Left In: -40.188+/-1132.362 χ²/NDF:12.8/20
Left: 224.557+/-772.875 χ²/NDF: 41.7/43
Right: 142.078+/-742.422 χ²/NDF: 33.1/34
In: 285.315+/-782.092 χ²/NDF:27.8/36
Out: 90.231+/-734.524 χ²/NDF:47.0/41
All: 181.660+/-535.414 χ²/NDF: 74.8/78




Right In: 2844.153+/-0.765 $\chi^2$/NDF: 542032.5/15

Left Out: 4378.519+/-0.748 $\chi^2$/NDF:1899466.9/22

Right Out: 2731.978+/-0.722 $\chi^2$/NDF: 611275.1/18

Left In: 4592.889+/-0.801 $\chi^2$/NDF:1346882.2/20

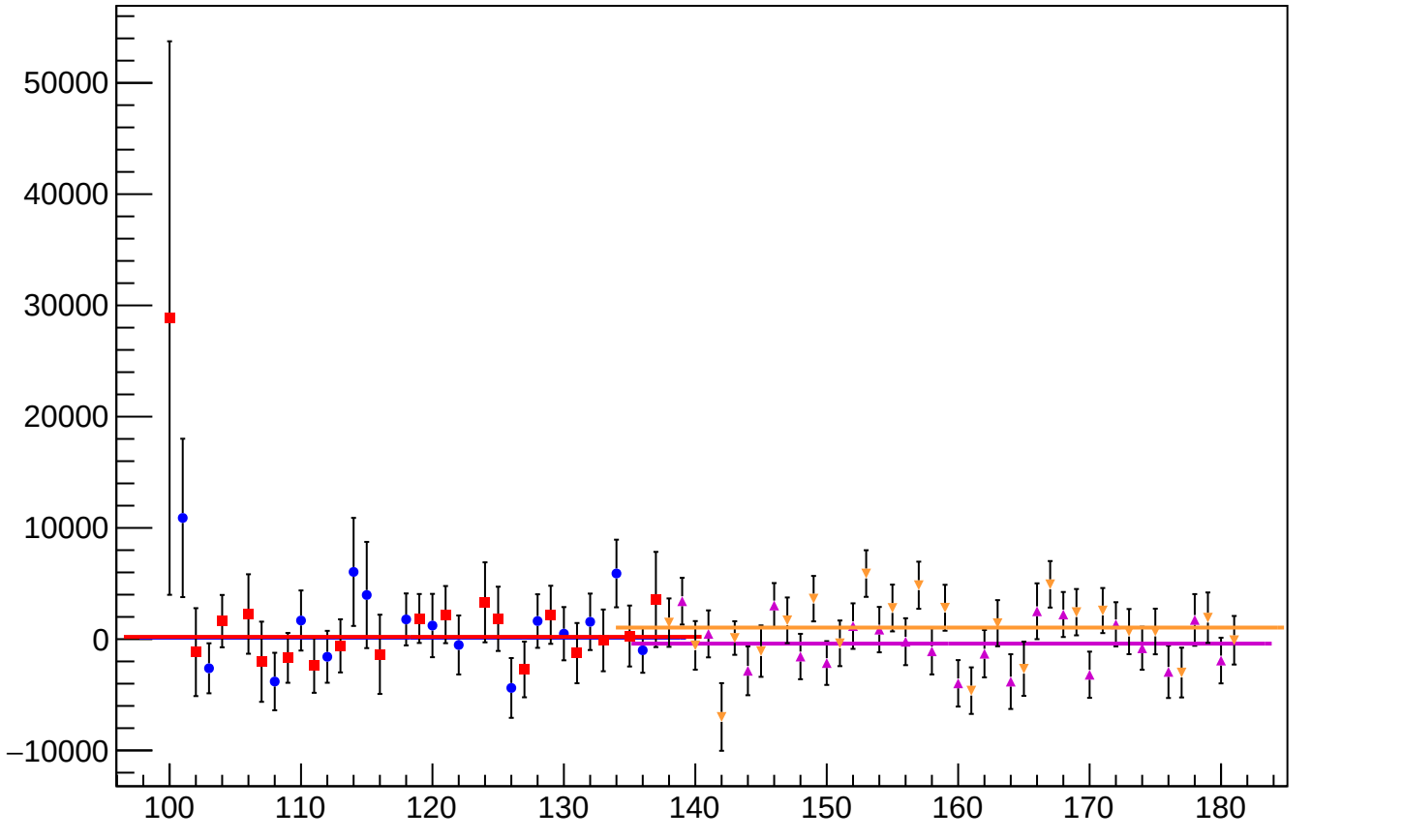
Left: 4478.384+/-0.547 $\chi^2$/NDF: 3284636.0/43

Right: 2784.841+/-0.525 $\chi^2$/NDF: 1164684.5/34

In: 3678.350+/-0.553 $\chi^2$/NDF:4383427.2/36

Out: 3526.356+/-0.519 $\chi^2$/NDF:5020132.6/41

All: 3597.591+/-0.379 $\chi^2$/NDF: 9443695.9/78




Right In: 133.837+/-671.621 $\chi^2$/NDF: 17.3/15

Left Out: 1041.763+/-438.564 $\chi^2$/NDF:39.0/22

Right Out: 205.422+/-654.444 $\chi^2$/NDF: 9.7/18

Left In: -401.570+/-460.597 $\chi^2$/NDF:23.0/20

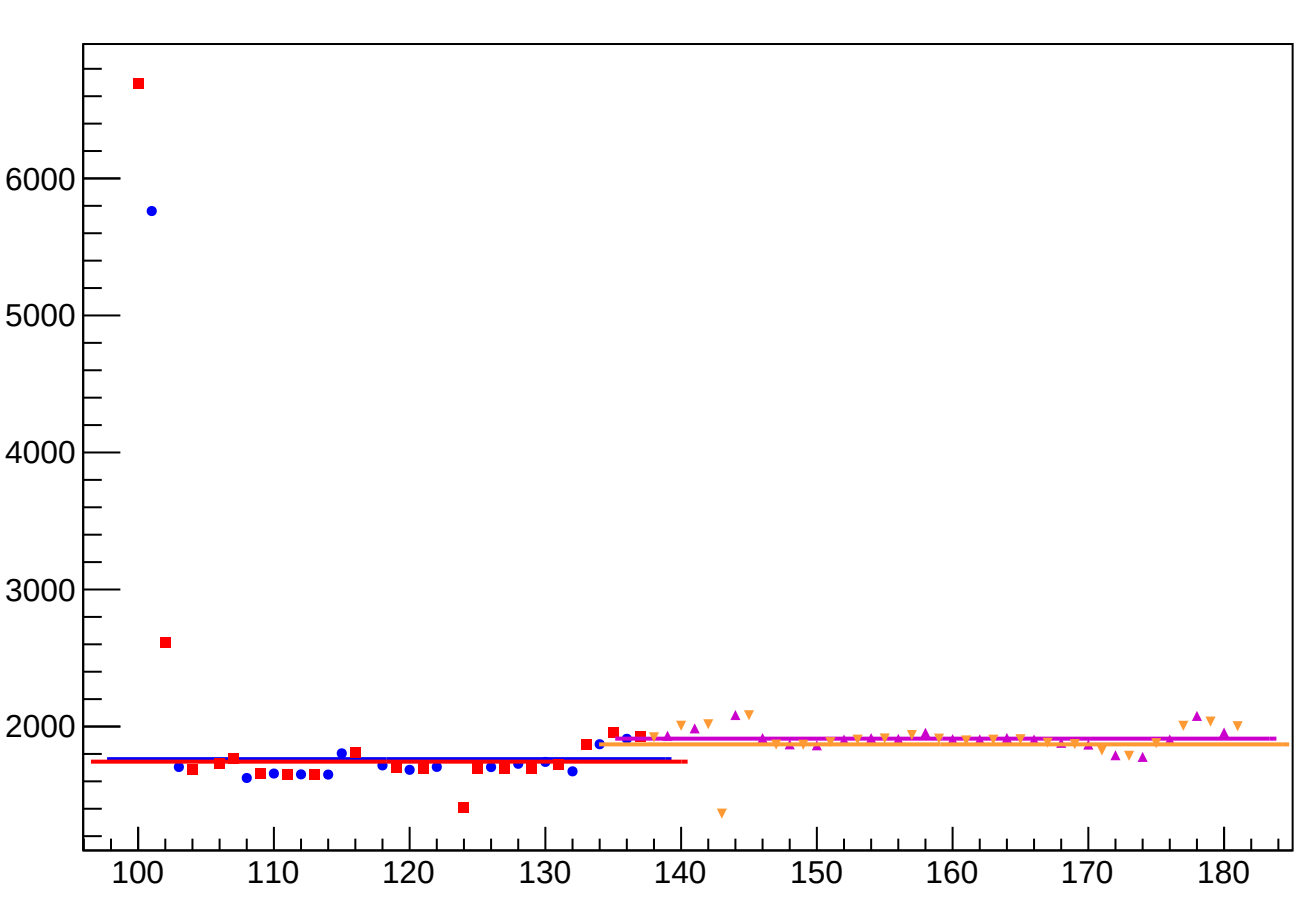
Left: 355.442+/-317.615 $\chi^2$/NDF: 67.1/43

Right: 170.557+/-468.717 $\chi^2$/NDF: 27.0/34

In: -230.306+/-379.853 $\chi^2$/NDF:40.7/36

Out: 782.576+/-364.324 $\chi^2$/NDF:49.8/41

All: 297.262+/-262.934 $\chi^2$/NDF: 94.2/78




Right In: 1762.052+/-0.475 $\chi^2$/NDF: 667696.6/15

Left Out: 1869.848+/-0.310 $\chi^2$/NDF:290200.4/22

Right Out: 1743.723+/-0.461 $\chi^2$/NDF: 227762.1/18

Left In: 1911.553+/-0.326 $\chi^2$/NDF:47425.0/20

Left: 1889.679+/-0.225 $\chi^2$/NDF: 346225.6/43

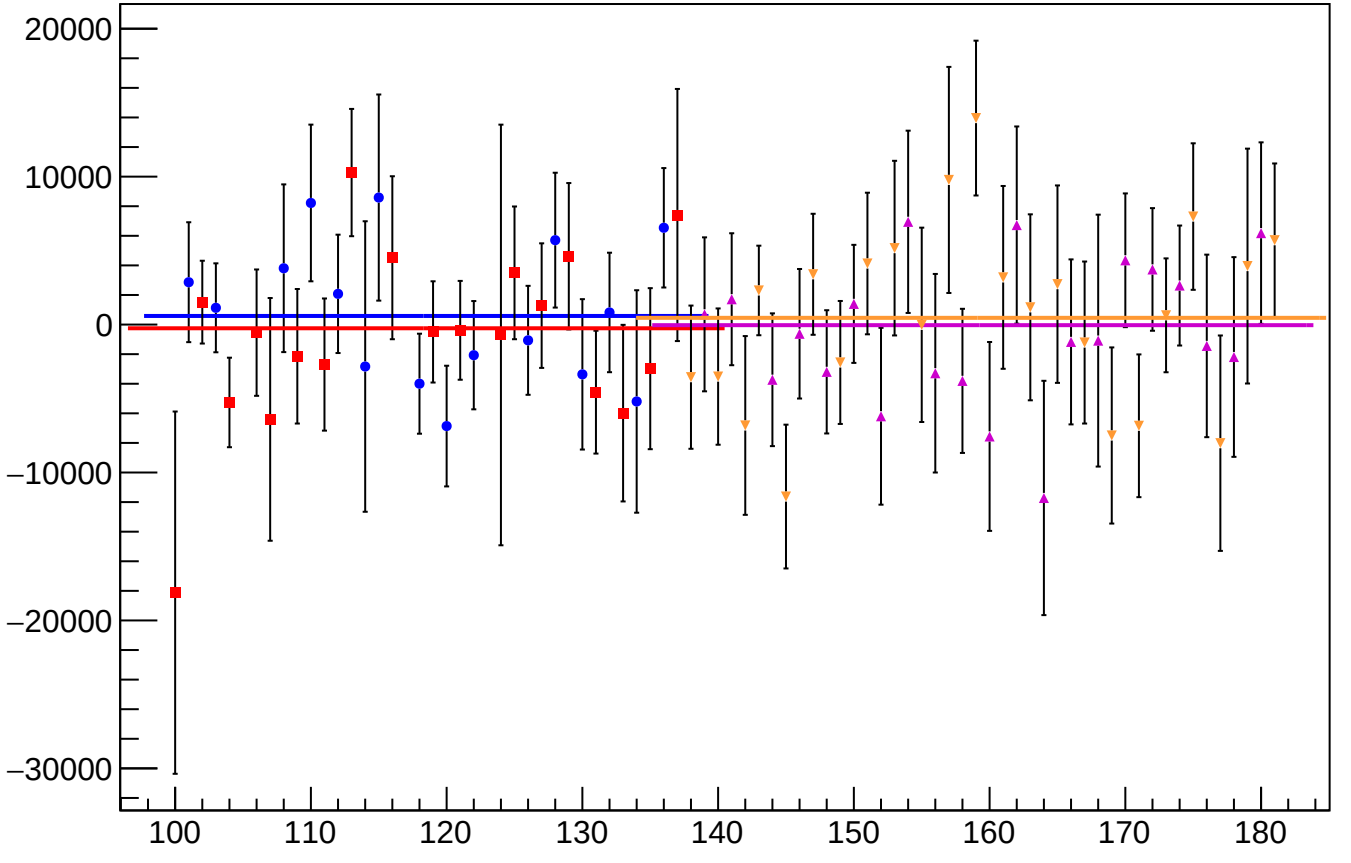
Right: 1752.624+/-0.331 $\chi^2$/NDF: 896224.9/34

In: 1863.731+/-0.269 $\chi^2$/NDF:782521.2/36

Out: 1830.605+/-0.257 $\chi^2$/NDF:569428.3/41

All: 1846.462+/-0.186 $\chi^2$/NDF: 1359878.6/78

asym_atr1l2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 582.219+/-1081.478 $\chi^2$/NDF: 14.9/15

Left Out: 455.455+/-1057.497 $\chi^2$/NDF:28.8/22

Right Out: -250.225+/-1021.010 $\chi^2$/NDF: 17.9/18

Left In: -40.189+/-1132.364 $\chi^2$/NDF:12.8/20

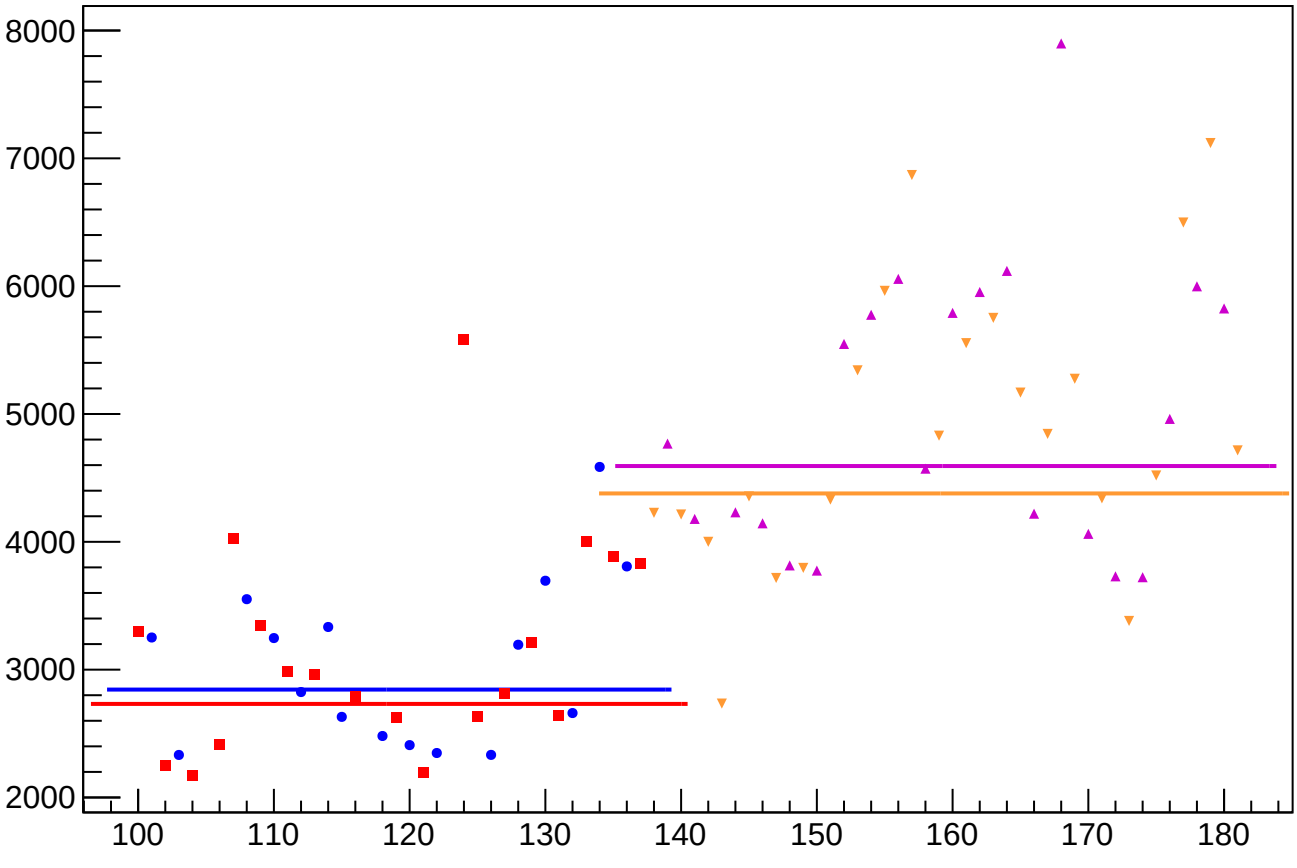
Left: 224.559+/-772.876 $\chi^2$/NDF: 41.7/43

Right: 142.075+/-742.420 $\chi^2$/NDF: 33.1/34

In: 285.314+/-782.091 $\chi^2$/NDF:27.8/36

Out: 90.231+/-734.524 $\chi^2$/NDF:47.0/41

All: 181.660+/-535.414 $\chi^2$/NDF: 74.8/78




Right In: 2844.145+/-0.765 $\chi^2$/NDF: 542036.2/15

Left Out: 4378.526+/-0.748 $\chi^2$/NDF:1899471.6/22

Right Out: 2731.972+/-0.722 $\chi^2$/NDF: 611272.5/18

Left In: 4592.897+/-0.801 $\chi^2$/NDF:1346882.7/20

Left: 4478.391+/-0.547 $\chi^2$/NDF: 3284641.6/43

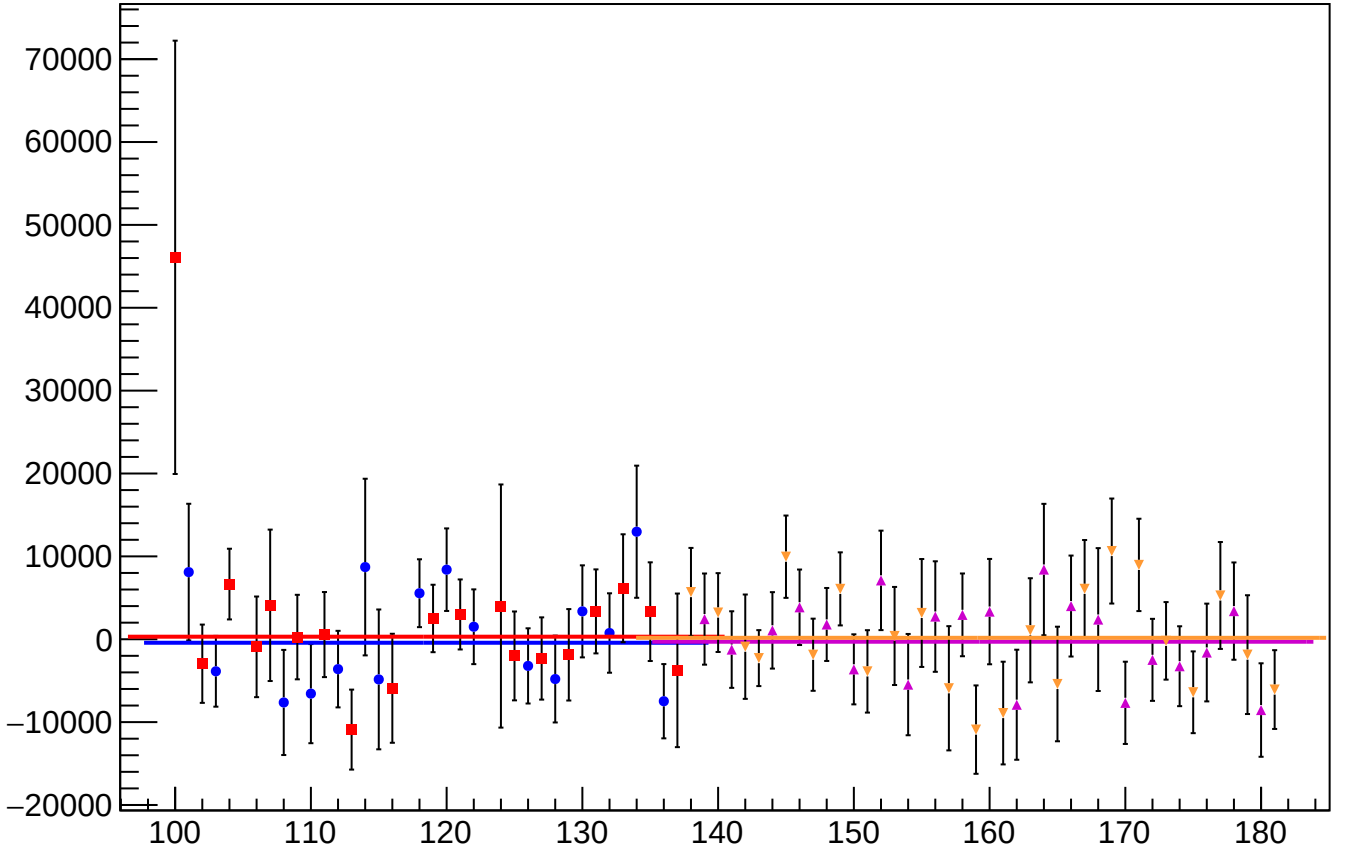
Right: 2784.835+/-0.525 $\chi^2$/NDF: 1164685.2/34

In: 3678.347+/-0.553 $\chi^2$/NDF:4383478.0/36

Out: 3526.354+/-0.519 $\chi^2$/NDF:5020173.5/41

All: 3597.588+/-0.379 $\chi^2$/NDF: 9443787.0/78

# asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: -423.131+/-1327.258 $\chi^2$/NDF: 17.9/15

Left Out: 172.125+/-1107.390 $\chi^2$/NDF:27.0/22

Right Out: 307.823+/-1275.718 $\chi^2$/NDF: 15.3/18

Left In: -299.579+/-1180.812 $\chi^2$/NDF:13.7/20

Left: -48.607+/-807.753 $\chi^2$/NDF: 40.9/43

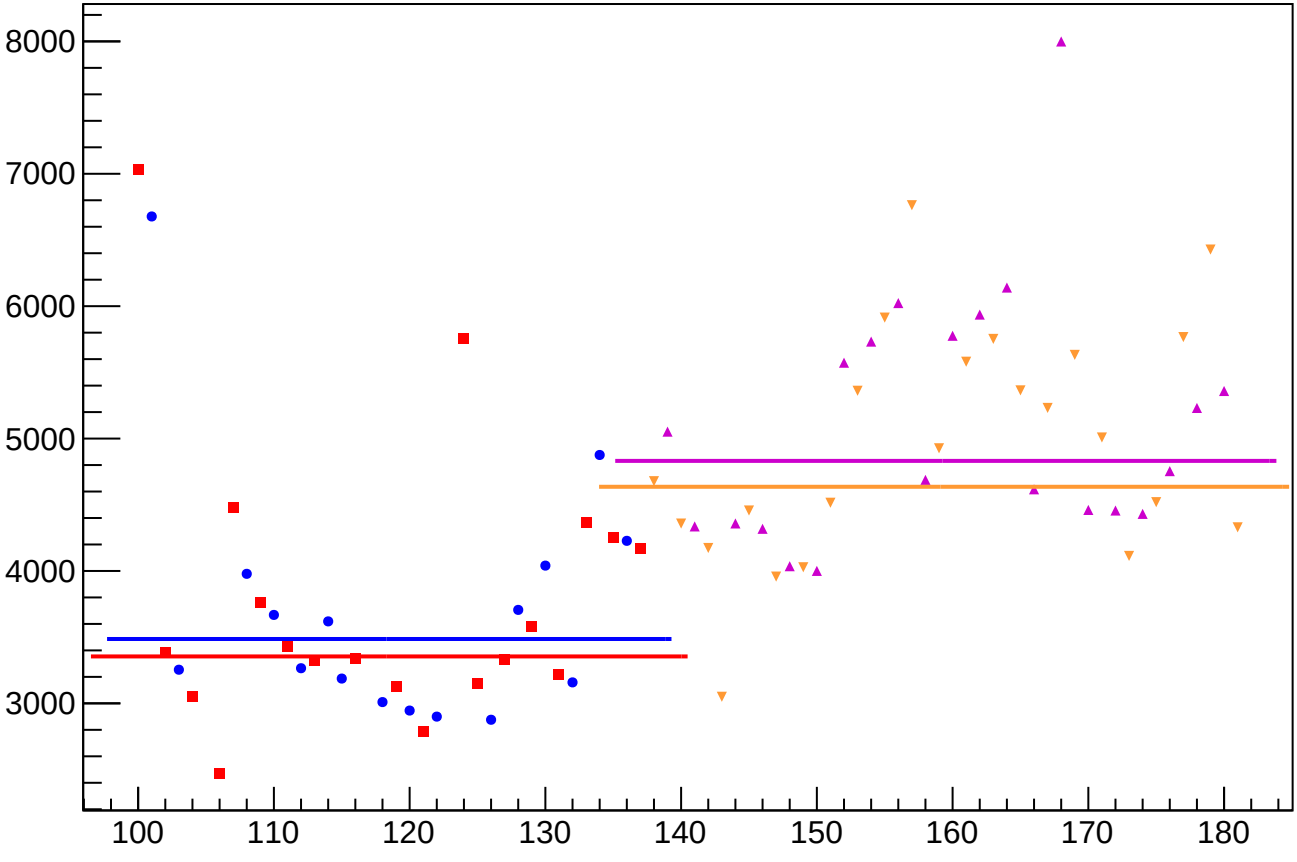
Right: -43.186+/-919.750 $\chi^2$/NDF: 33.3/34

In: -354.165+/-882.211 $\chi^2$/NDF:31.6/36

Out: 230.437+/-836.269 $\chi^2$/NDF:42.3/41

All: -46.246+/-606.923 $\chi^2$/NDF: 74.2/78

# asym_atr1l2_dd_rms vs Slug, Sign Corrected




Right In: 3486.167+/-0.939 $\chi^2$/NDF: 595790.9/15

Left Out: 4635.908+/-0.783 $\chi^2$/NDF:1255150.7/22

Right Out: 3354.426+/-0.889 $\chi^2$/NDF: 376426.3/18

Left In: 4831.412+/-0.835 $\chi^2$/NDF:844977.0/20

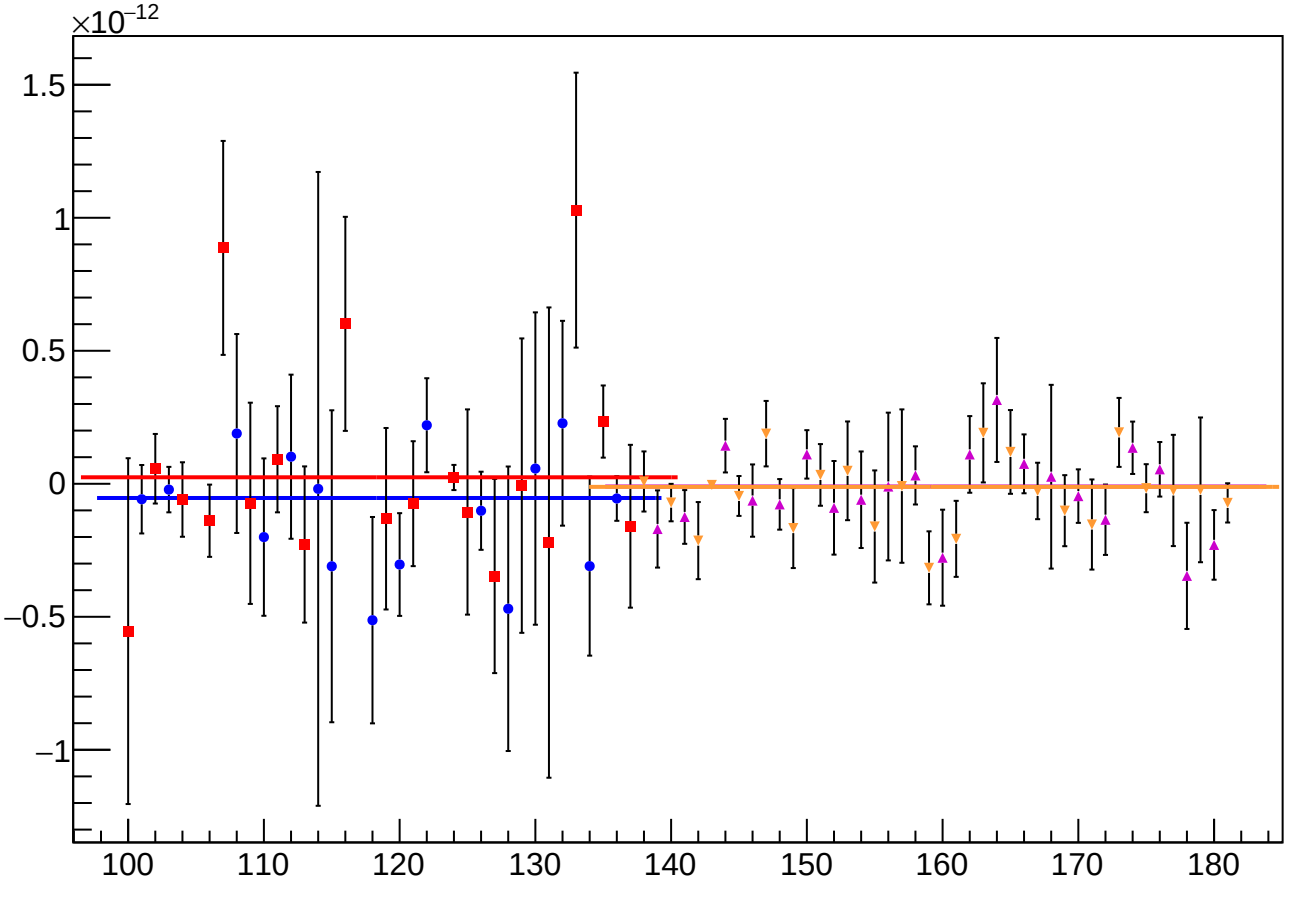
Left: 4727.394+/-0.571 $\chi^2$/NDF: 2129297.8/43

Right: 3416.767+/-0.646 $\chi^2$/NDF: 982597.4/34

In: 4237.070+/-0.624 $\chi^2$/NDF:2587617.6/36

Out: 4076.399+/-0.588 $\chi^2$/NDF:2800936.0/41

All: 4151.956+/-0.428 $\chi^2$/NDF: 5423695.8/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:20.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.4/20

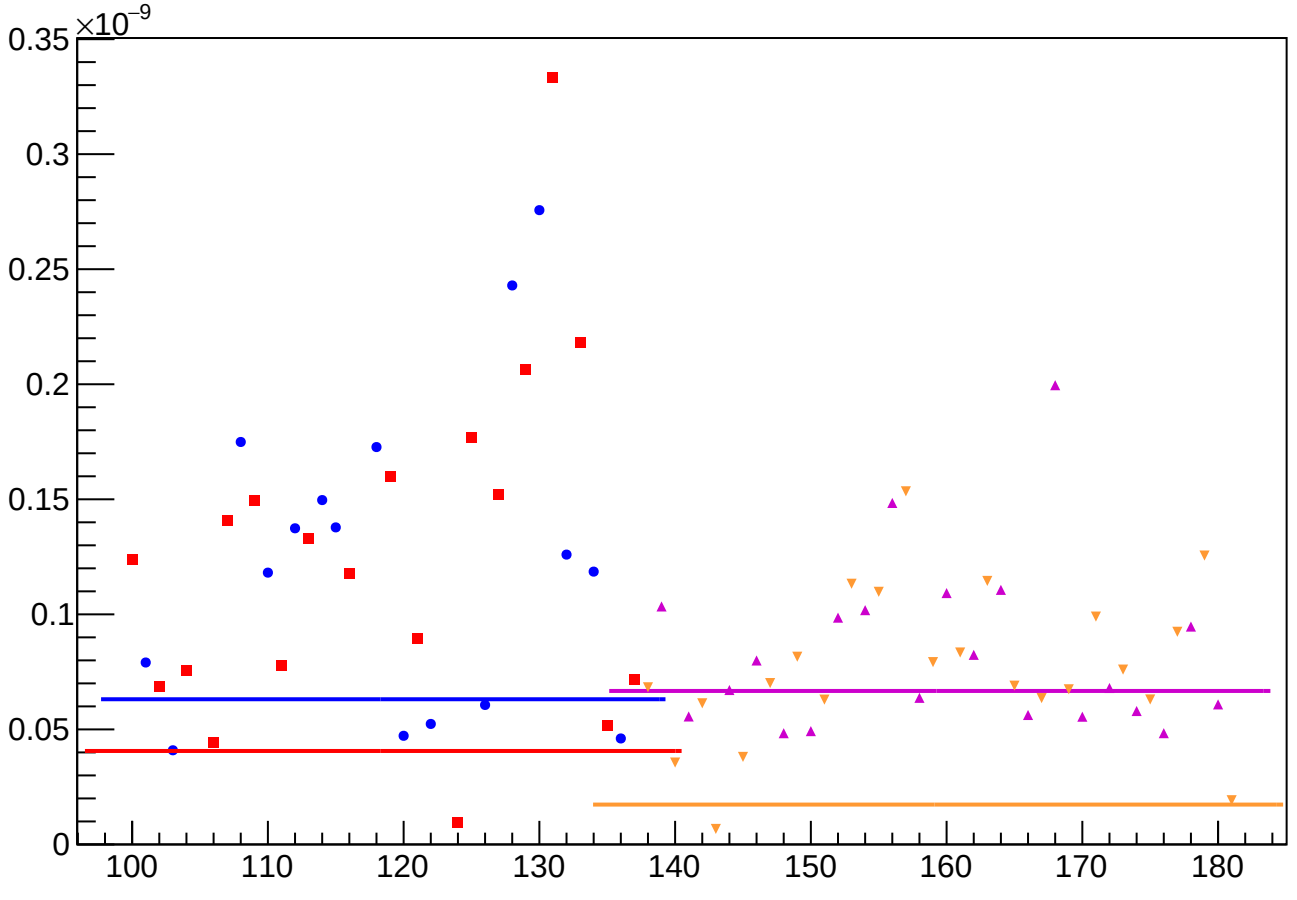
Left: -0.000+/-0.000 $\chi^2$/NDF: 43.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:31.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:40.0/41

All: -0.000+/-0.000 $\chi^2$/NDF: 71.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1432018.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8850817.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3172346.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1302041.4/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 15605785.2/43

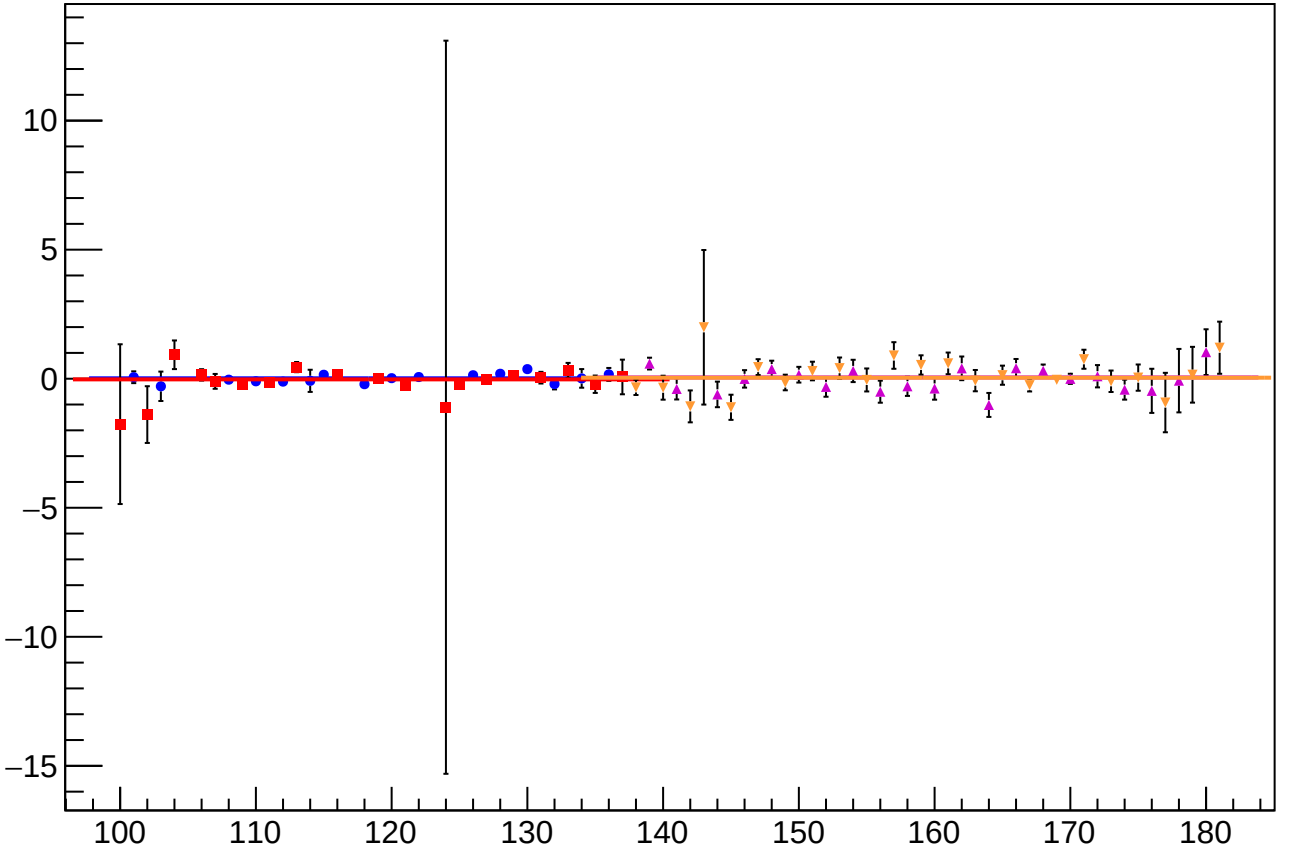
Right: 0.000+/-0.000 $\chi^2$/NDF: 4914964.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:2743555.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:12793029.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 21899783.3/78

asym_atr1l2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: 0.039+/-0.079 $\chi^2$/NDF:29.0/22

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.049+/-0.078 $\chi^2$/NDF:25.5/20

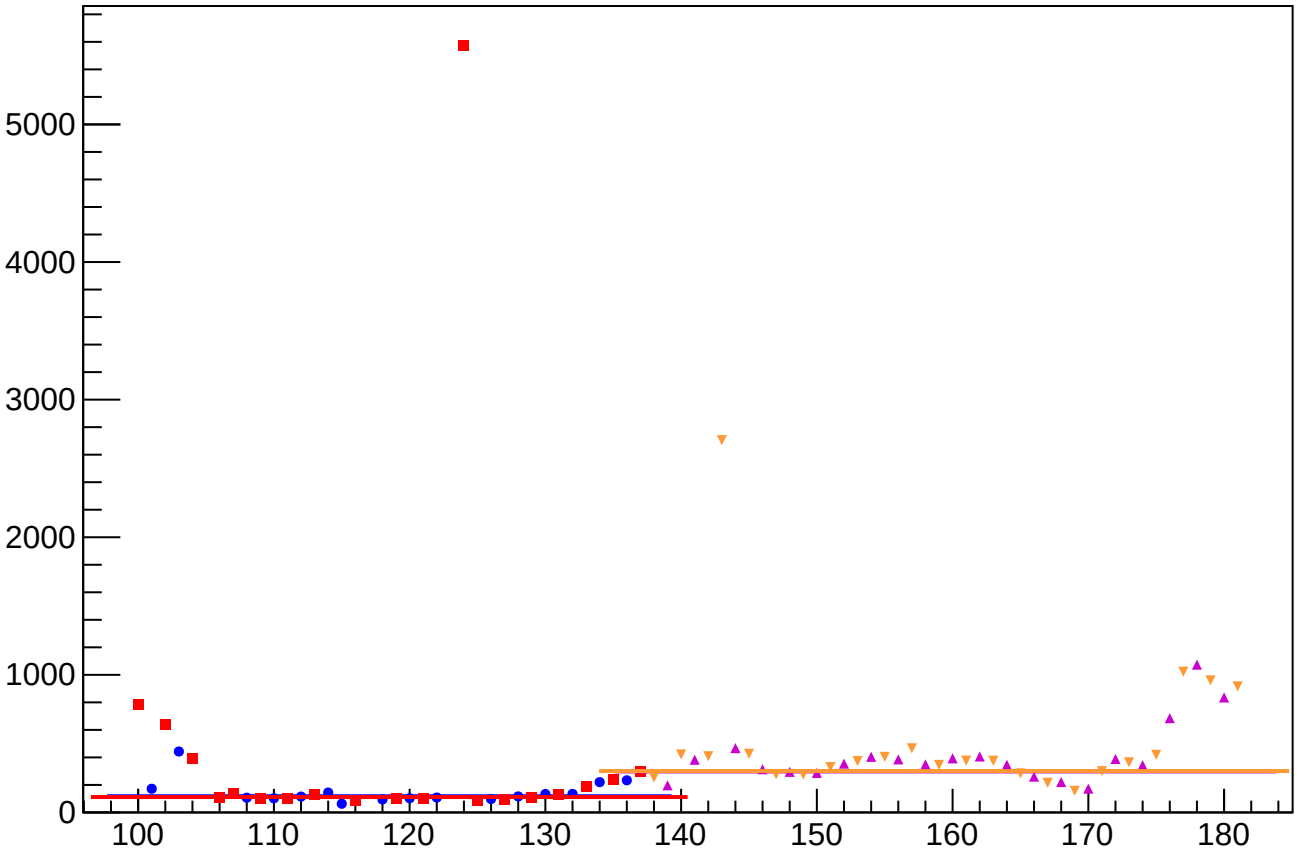
Left: 0.044+/-0.055 $\chi^2$/NDF: 54.5/43

Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.024+/-0.041 $\chi^2$/NDF:37.4/36

Out: -0.009+/-0.040 $\chi^2$/NDF:51.6/41

All: 0.008+/-0.029 $\chi^2$/NDF: 89.3/78




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722401.0/15

Left Out: 300.772+/-0.056 $\chi^2$/NDF:6219027.2/22

Right Out: 112.124+/-0.033 $\chi^2$/NDF: 2186364.8/18

Left In: 297.981+/-0.055 $\chi^2$/NDF:4330138.2/20

Left: 299.364+/-0.039 $\chi^2$/NDF: 10550432.7/43

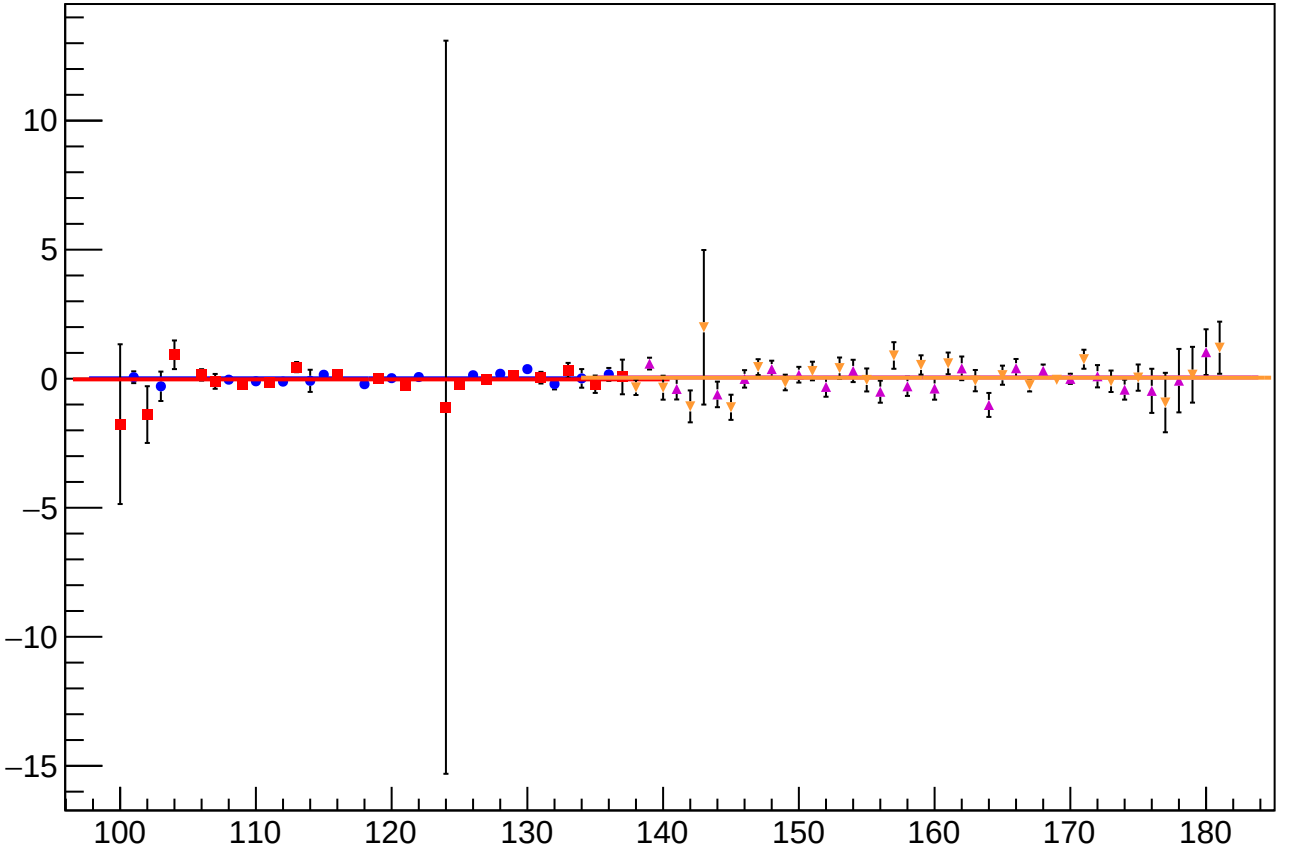
Right: 114.826+/-0.024 $\chi^2$/NDF: 3922369.6/34

In: 166.962+/-0.029 $\chi^2$/NDF:13806190.1/36

Out: 161.404+/-0.028 $\chi^2$/NDF:16879197.4/41

All: 164.145+/-0.020 $\chi^2$/NDF: 30704175.4/78

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: 0.039+/-0.079 $\chi^2$/NDF:29.0/22

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.049+/-0.078 $\chi^2$/NDF:25.5/20

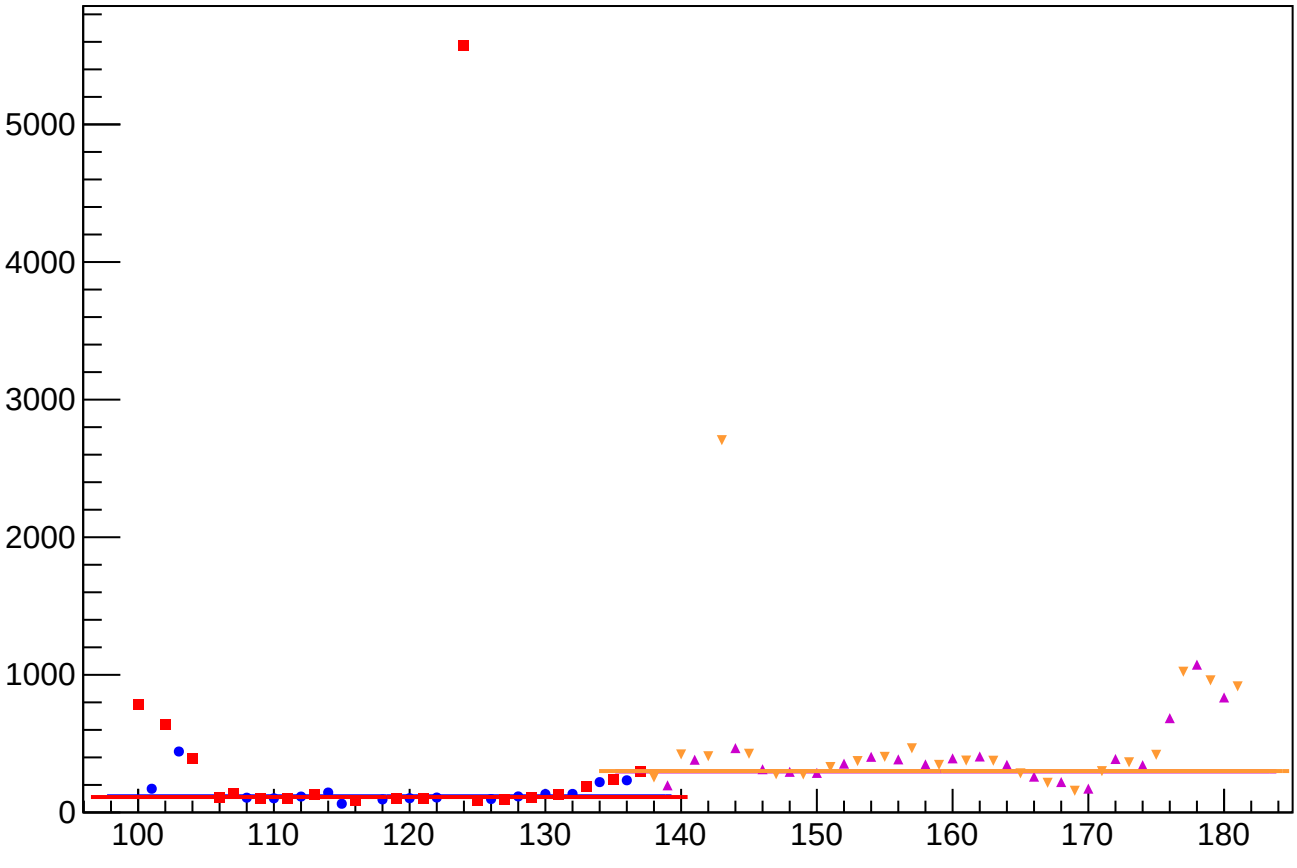
Left: 0.044+/-0.055 $\chi^2$/NDF: 54.5/43

Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.024+/-0.041 $\chi^2$/NDF:37.4/36

Out: -0.009+/-0.040 $\chi^2$/NDF:51.6/41

All: 0.008+/-0.029 $\chi^2$/NDF: 89.3/78




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722401.0/15

Left Out: 300.772+/-0.056 $\chi^2$/NDF:6219027.2/22

Right Out: 112.124+/-0.033 $\chi^2$/NDF: 2186364.8/18

Left In: 297.981+/-0.055 $\chi^2$/NDF:4330138.2/20

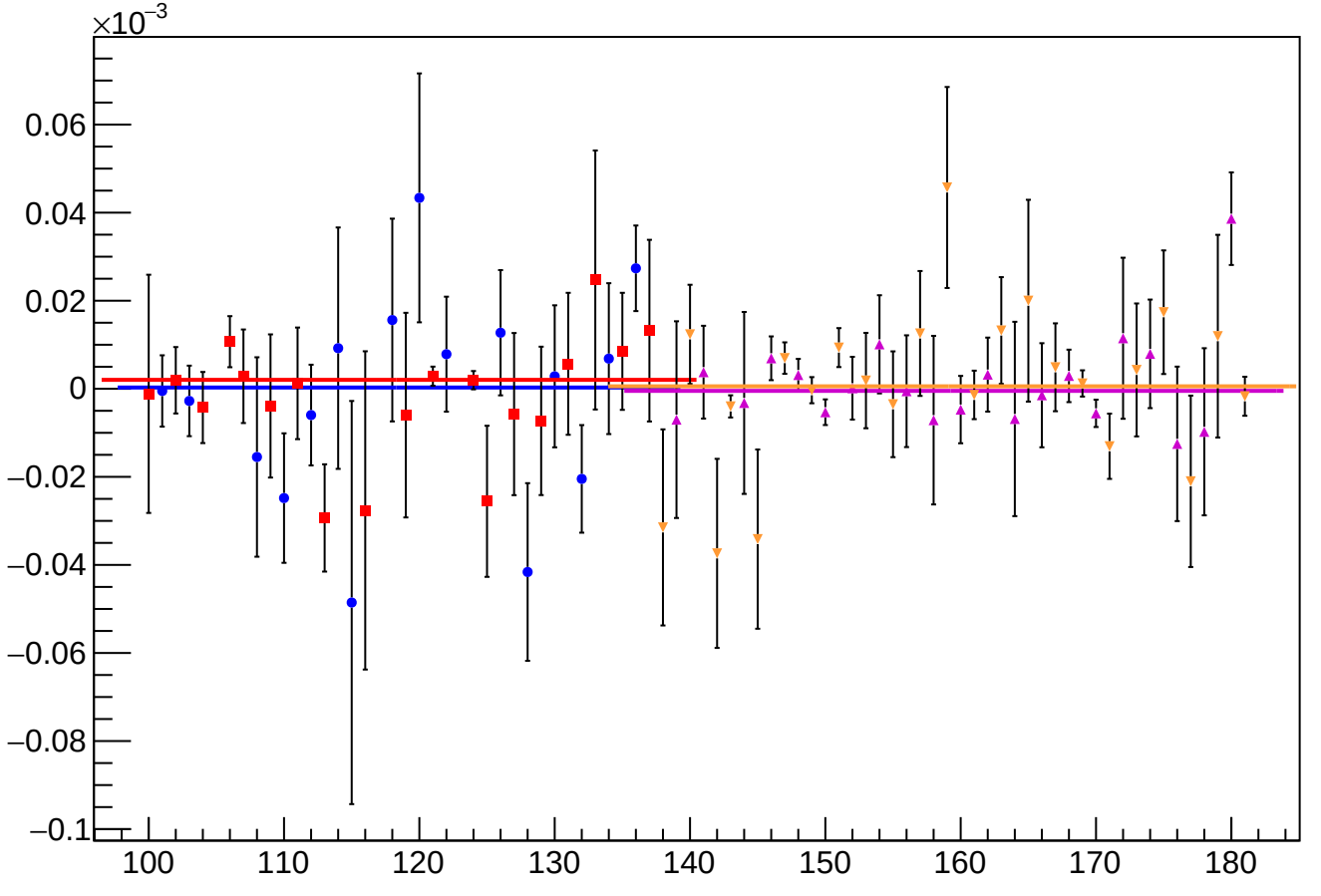
Left: 299.364+/-0.039 $\chi^2$/NDF: 10550432.7/43

Right: 114.826+/-0.024 $\chi^2$/NDF: 3922369.6/34

In: 166.962+/-0.029 $\chi^2$/NDF:13806190.1/36

Out: 161.404+/-0.028 $\chi^2$/NDF:16879197.4/41

All: 164.145+/-0.020 $\chi^2$/NDF: 30704175.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 24.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:33.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:26.3/20

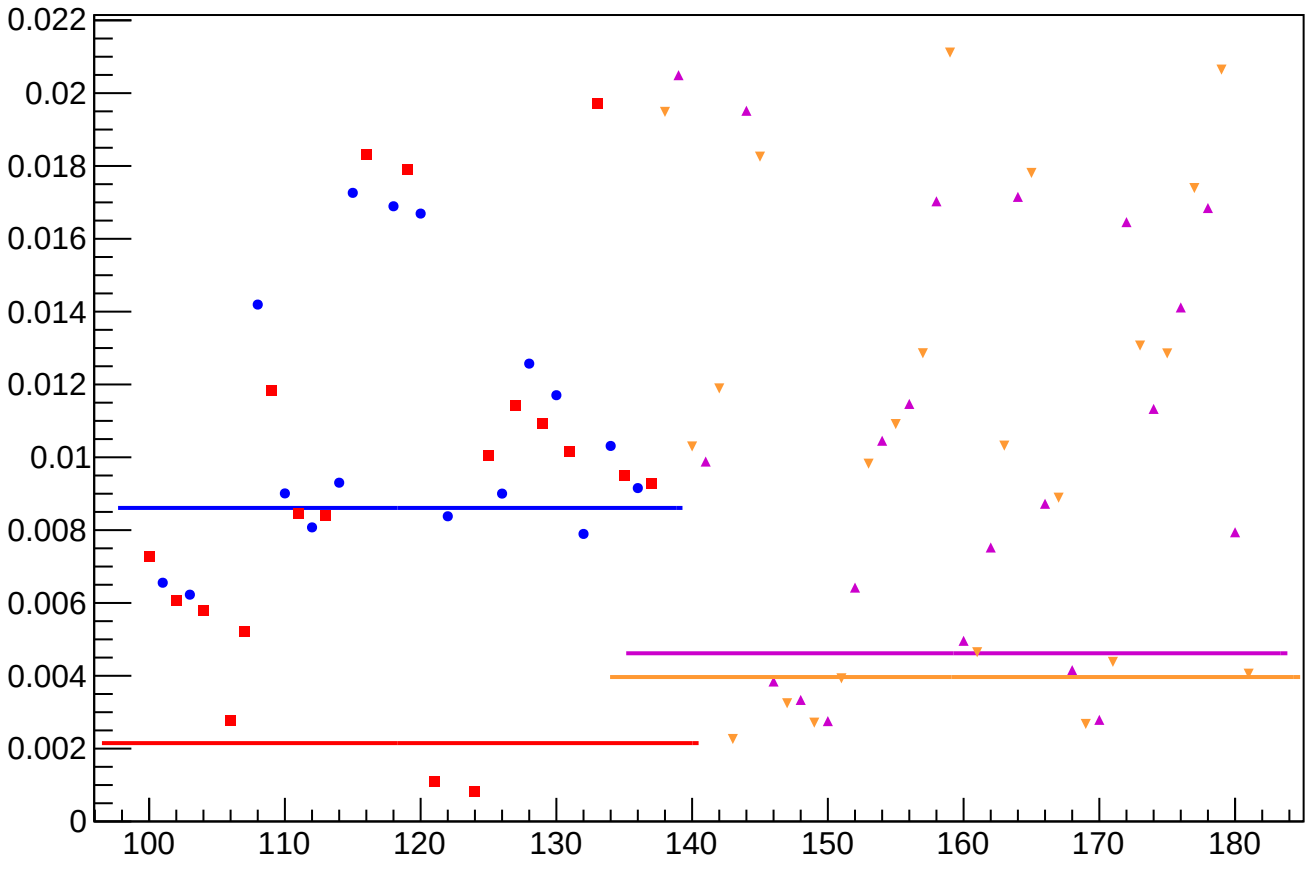
Left: 0.000+/-0.000 $\chi^2$/NDF: 59.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 39.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:50.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:48.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 100.2/78




Right In: 0.009+/-0.000 $\chi^2$/NDF: 1114251.2/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:13092256.6/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 9086978.1/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:10643916.6/20

Left: 0.004+/-0.000 $\chi^2$/NDF: 23976581.4/43

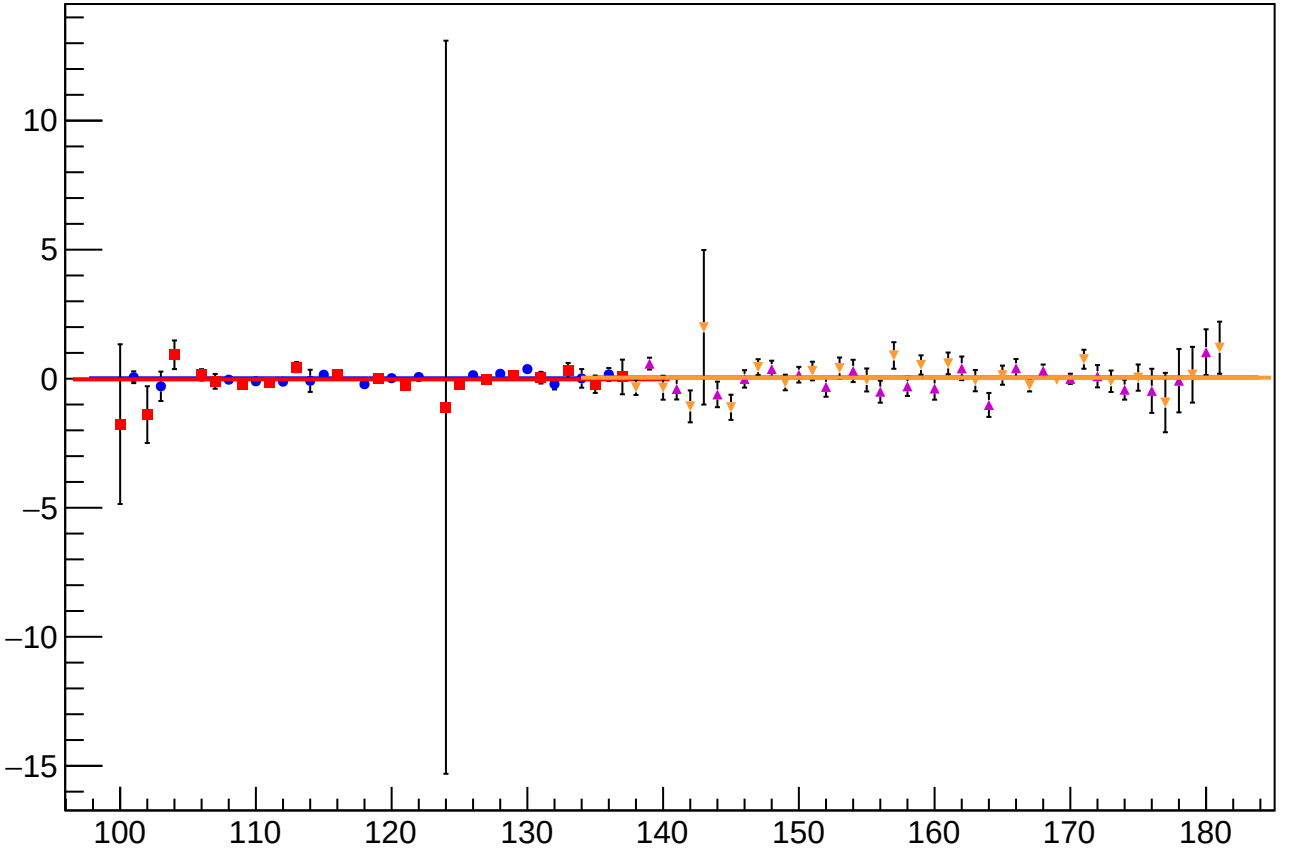
Right: 0.003+/-0.000 $\chi^2$/NDF: 16533209.6/34

In: 0.005+/-0.000 $\chi^2$/NDF:14124029.2/36

Out: 0.003+/-0.000 $\chi^2$/NDF:24206447.9/41

All: 0.004+/-0.000 $\chi^2$/NDF: 41721636.2/78

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: 0.039+/-0.079 $\chi^2$/NDF:29.0/22

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.049+/-0.078 $\chi^2$/NDF:25.5/20

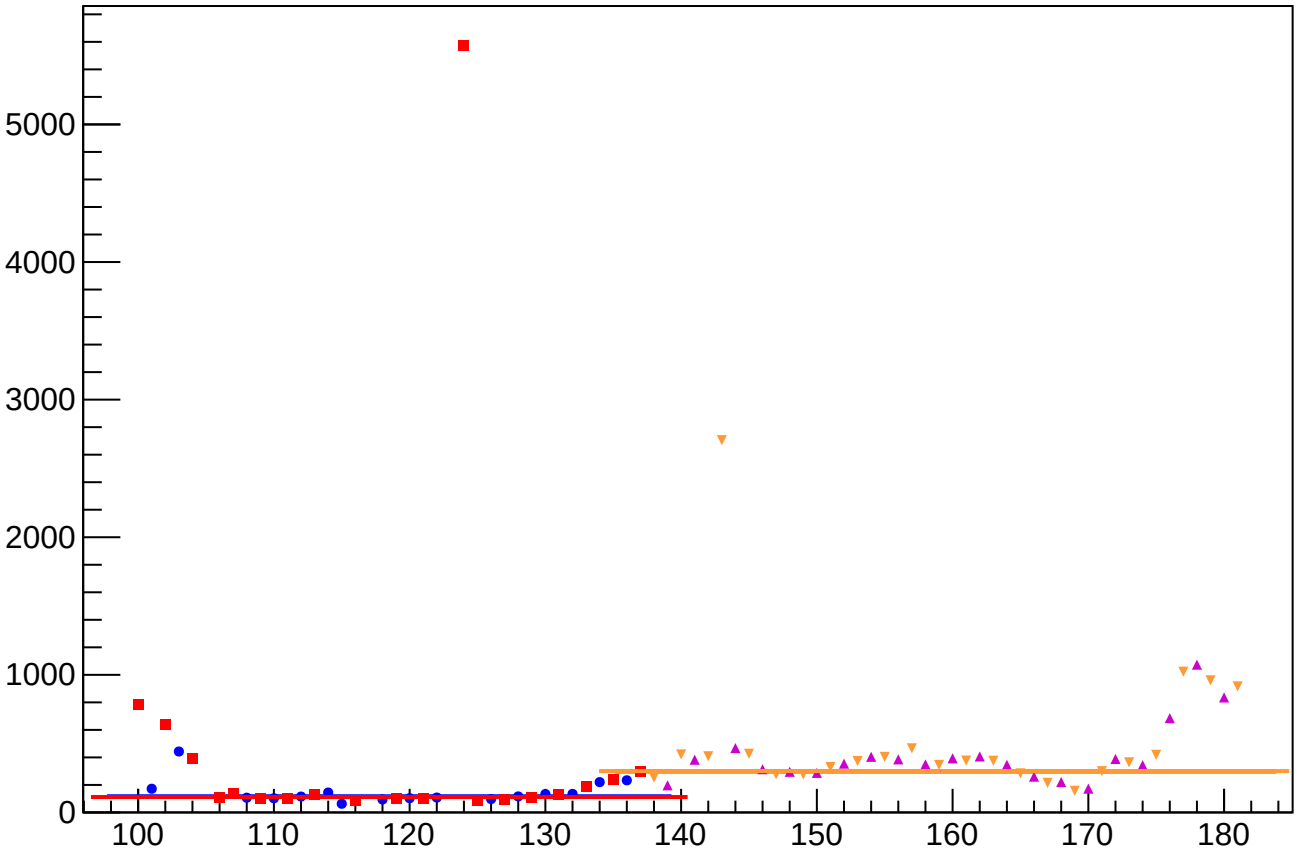
Left: 0.044+/-0.055 $\chi^2$/NDF: 54.5/43

Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.024+/-0.041 $\chi^2$/NDF:37.4/36

Out: -0.009+/-0.040 $\chi^2$/NDF:51.6/41

All: 0.008+/-0.029 $\chi^2$/NDF: 89.3/78




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722367.8/15

Left Out: 300.774+/-0.056 $\chi^2$/NDF:6219092.8/22

Right Out: 112.126+/-0.033 $\chi^2$/NDF: 2186296.2/18

Left In: 297.984+/-0.055 $\chi^2$/NDF:4330124.9/20

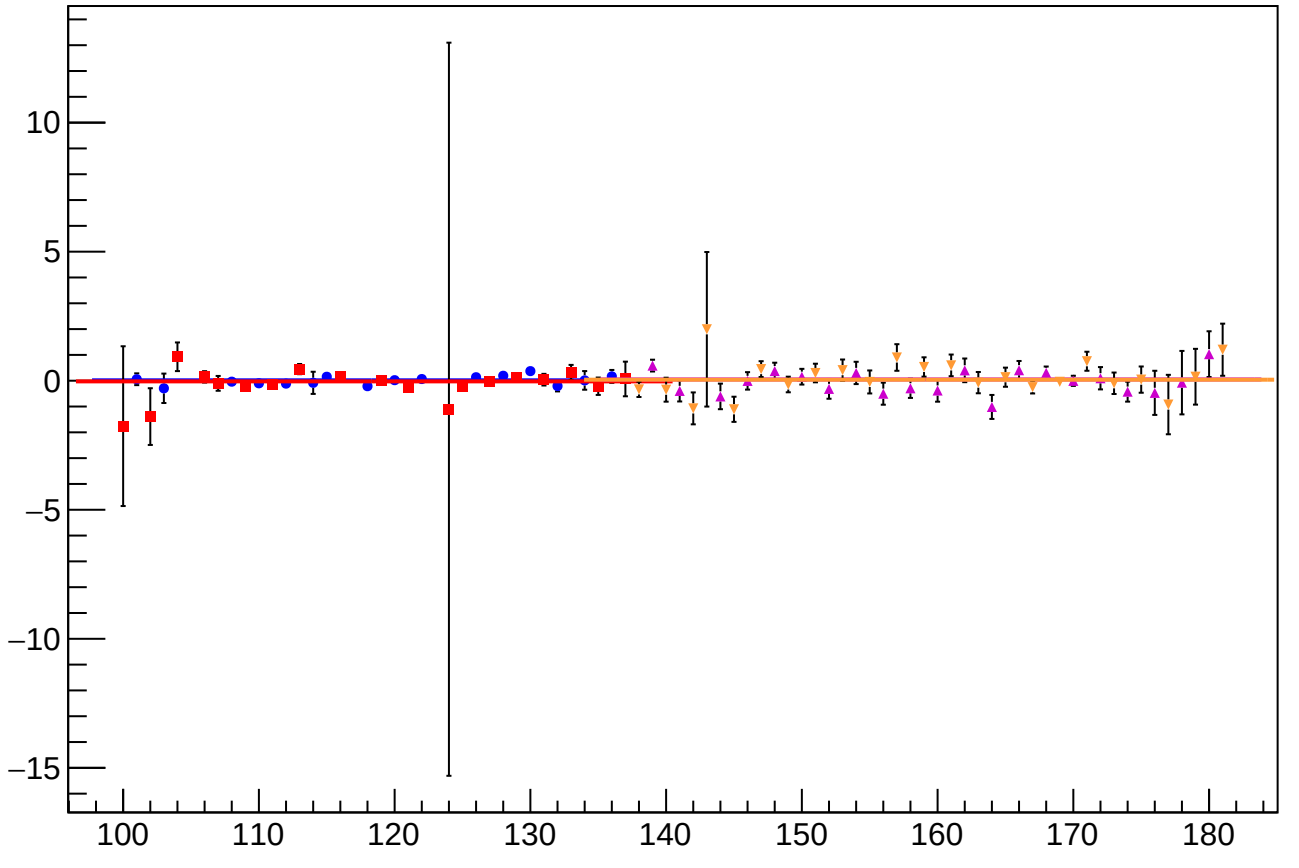
Left: 299.366+/-0.039 $\chi^2$/NDF: 10550483.9/43

Right: 114.826+/-0.024 $\chi^2$/NDF: 3922259.7/34

In: 166.962+/-0.029 $\chi^2$/NDF:13806280.1/36

Out: 161.406+/-0.028 $\chi^2$/NDF:16879067.5/41

All: 164.146+/-0.020 $\chi^2$/NDF: 30704122.9/78




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: 0.039+/-0.079 $\chi^2$/NDF:29.0/22

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.049+/-0.078 $\chi^2$/NDF:25.5/20

Left: 0.044+/-0.055 $\chi^2$/NDF: 54.5/43

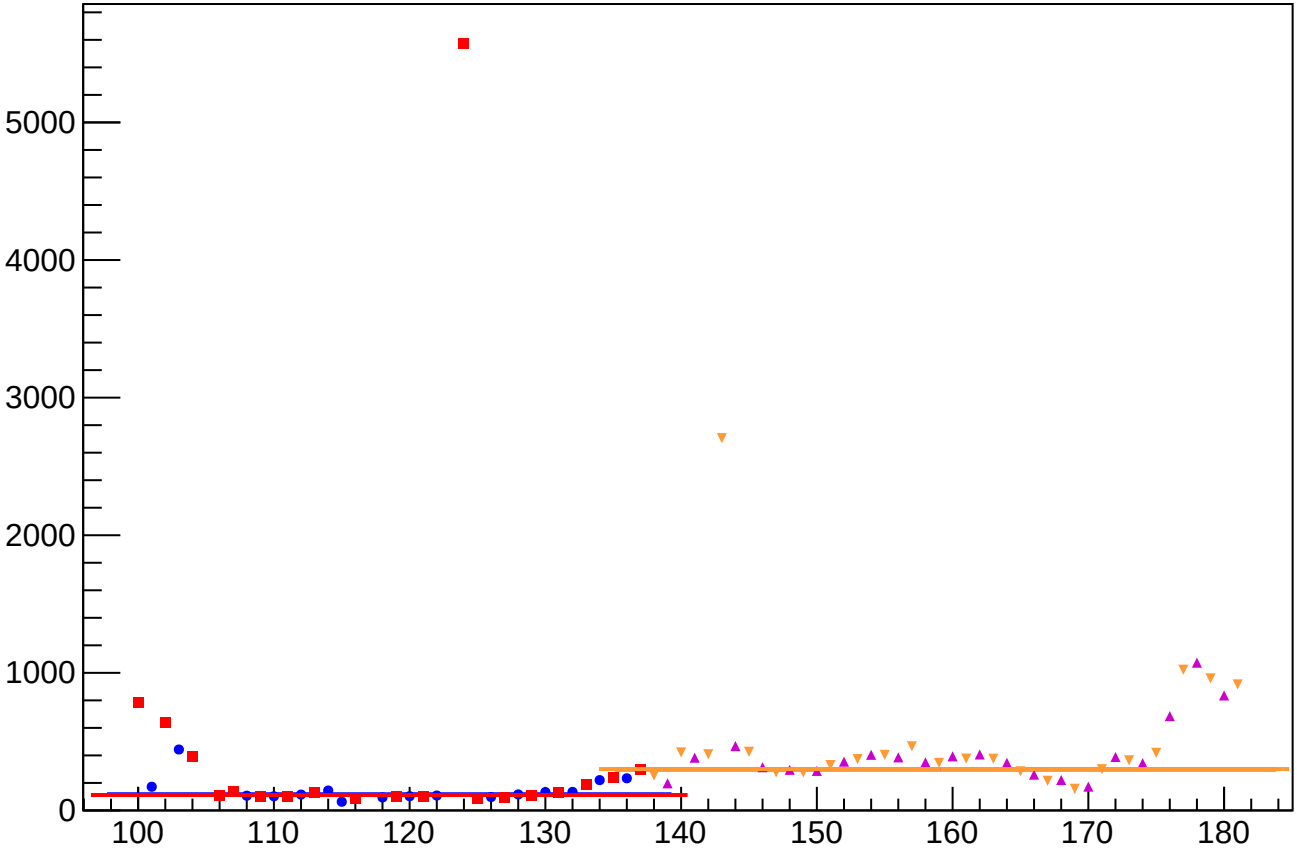
Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.024+/-0.041 $\chi^2$/NDF:37.4/36

Out: -0.009+/-0.040 $\chi^2$/NDF:51.6/41

All: 0.008+/-0.029 $\chi^2$/NDF: 89.3/78

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722367.8/15

Left Out: 300.774+/-0.056 $\chi^2$/NDF:6219092.8/22

Right Out: 112.126+/-0.033 $\chi^2$/NDF: 2186296.2/18

Left In: 297.984+/-0.055 $\chi^2$/NDF:4330124.9/20

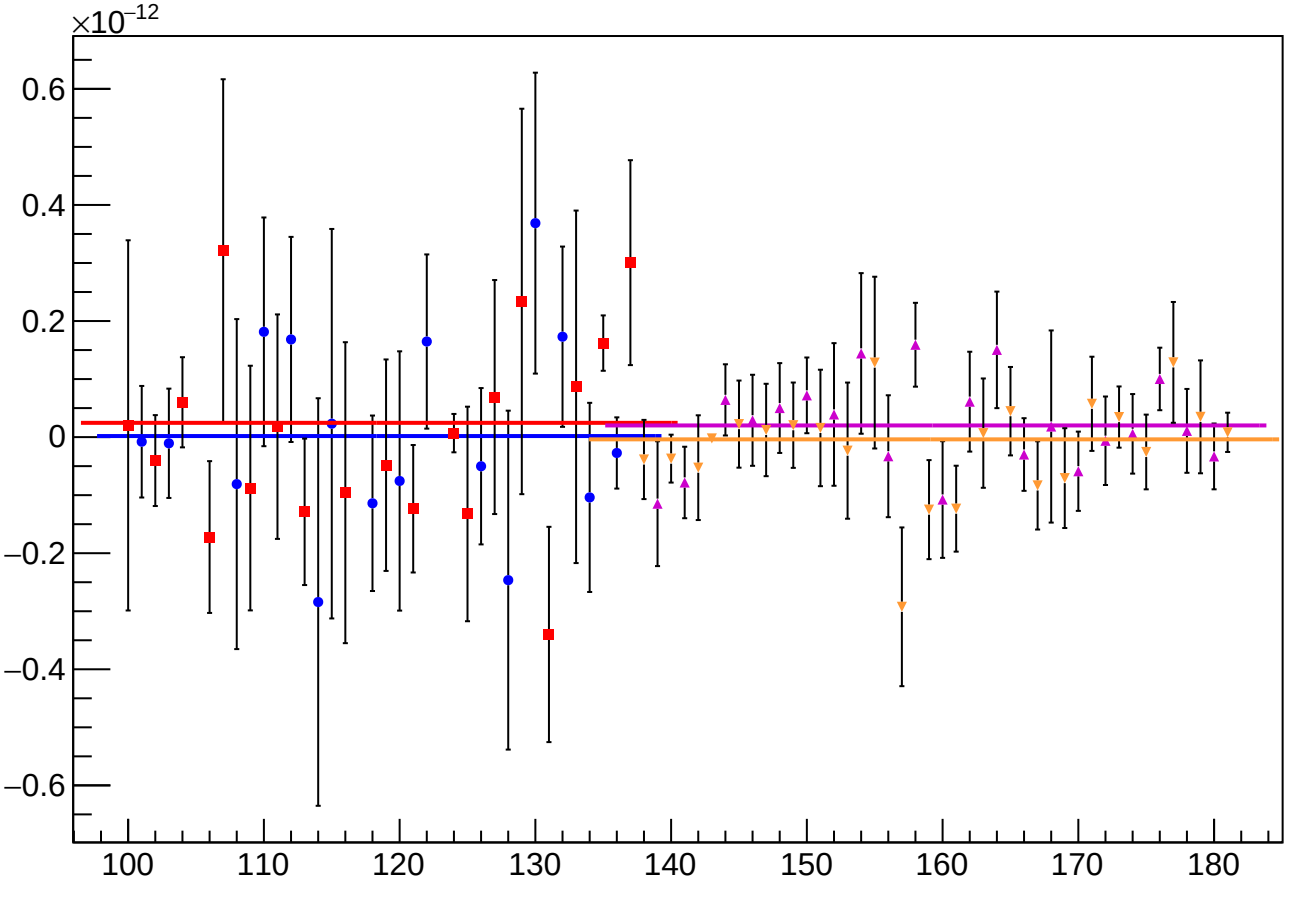
Left: 299.366+/-0.039 $\chi^2$/NDF: 10550483.9/43

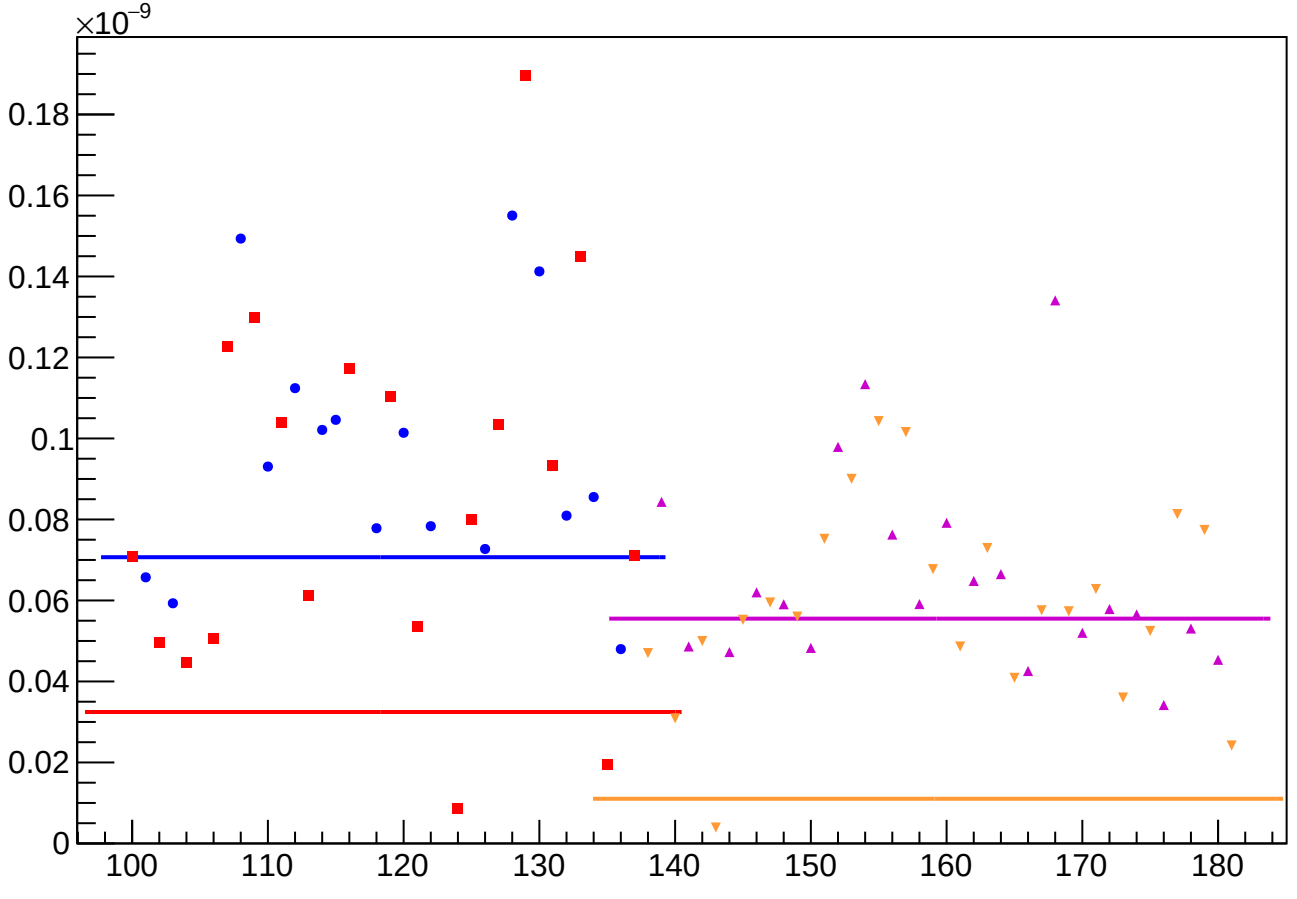
Right: 114.826+/-0.024 $\chi^2$/NDF: 3922259.7/34

In: 166.962+/-0.029 $\chi^2$/NDF:13806280.1/36

Out: 161.406+/-0.028 $\chi^2$/NDF:16879067.5/41

All: 164.146+/-0.020 $\chi^2$/NDF: 30704122.9/78


asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 9.1/15
Left Out: -0.000+/-0.000 χ²/NDF:16.7/22
Right Out: 0.000+/-0.000 χ²/NDF: 24.2/18
Left In: 0.000+/-0.000 χ²/NDF:19.0/20
Left: -0.000+/-0.000 χ²/NDF: 37.5/43
Right: 0.000+/-0.000 χ²/NDF: 33.7/34
In: 0.000+/-0.000 χ²/NDF:28.3/36
Out: -0.000+/-0.000 χ²/NDF:42.5/41
All: 0.000+/-0.000 χ²/NDF: 72.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1023708.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17414985.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4449161.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2001746.9/20

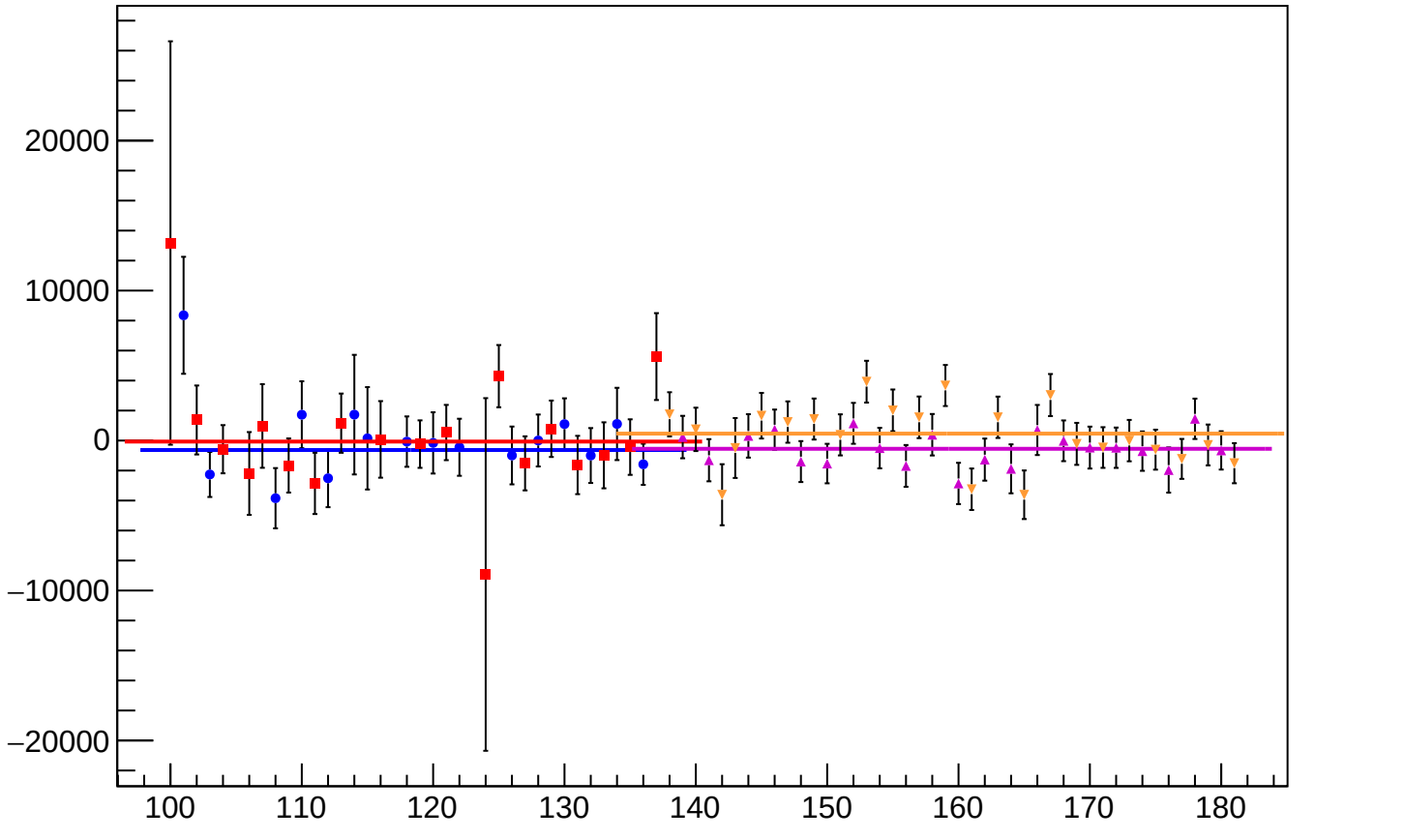
Left: 0.000+/-0.000 $\chi^2$/NDF: 32162605.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 7239318.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:3340654.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:23683885.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 43358647.0/78




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.177+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -549.417+/-303.758 $\chi^2$/NDF:13.1/20

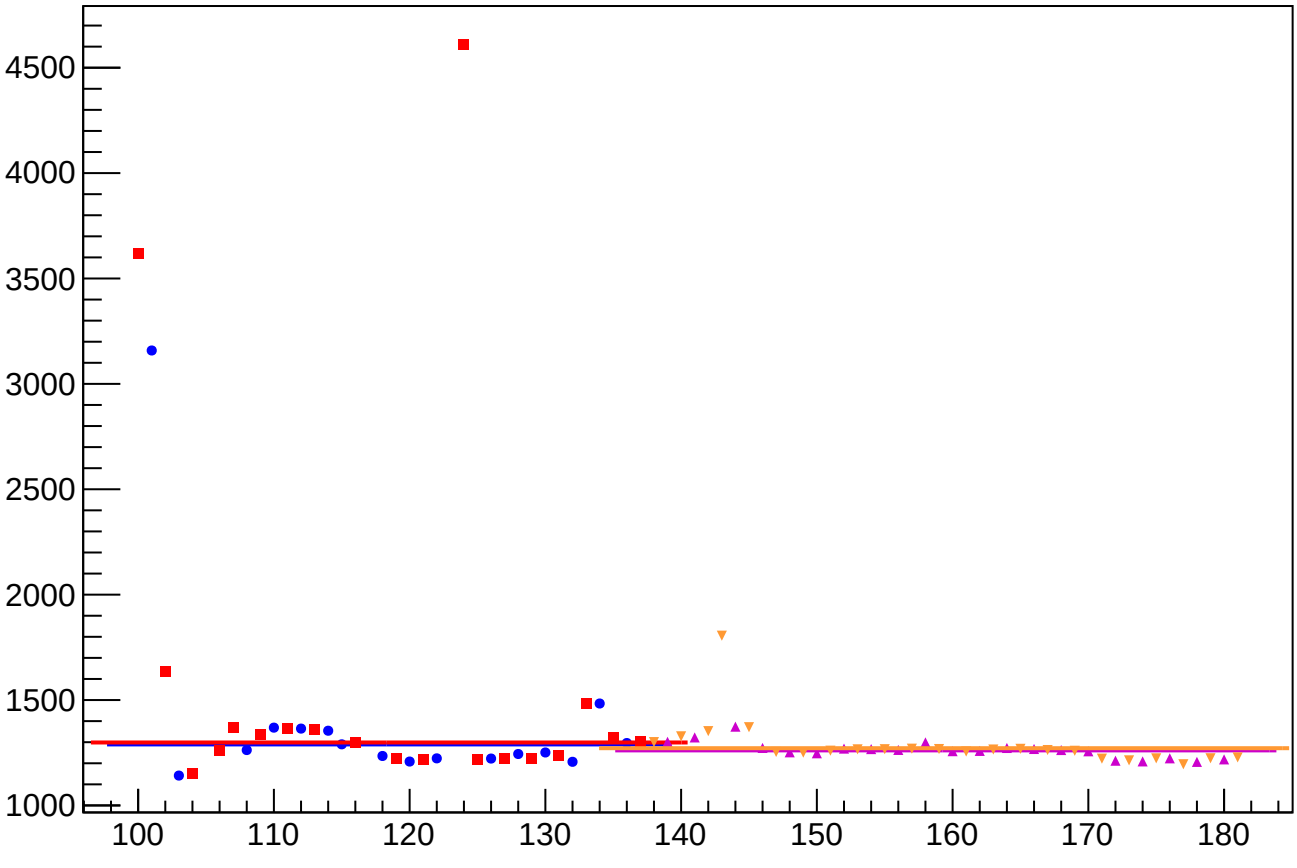
Left: -33.459+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -572.167+/-257.979 $\chi^2$/NDF:27.0/36

Out: 318.367+/-254.119 $\chi^2$/NDF:59.8/41

All: -120.189+/-181.039 $\chi^2$/NDF: 92.8/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.3/20

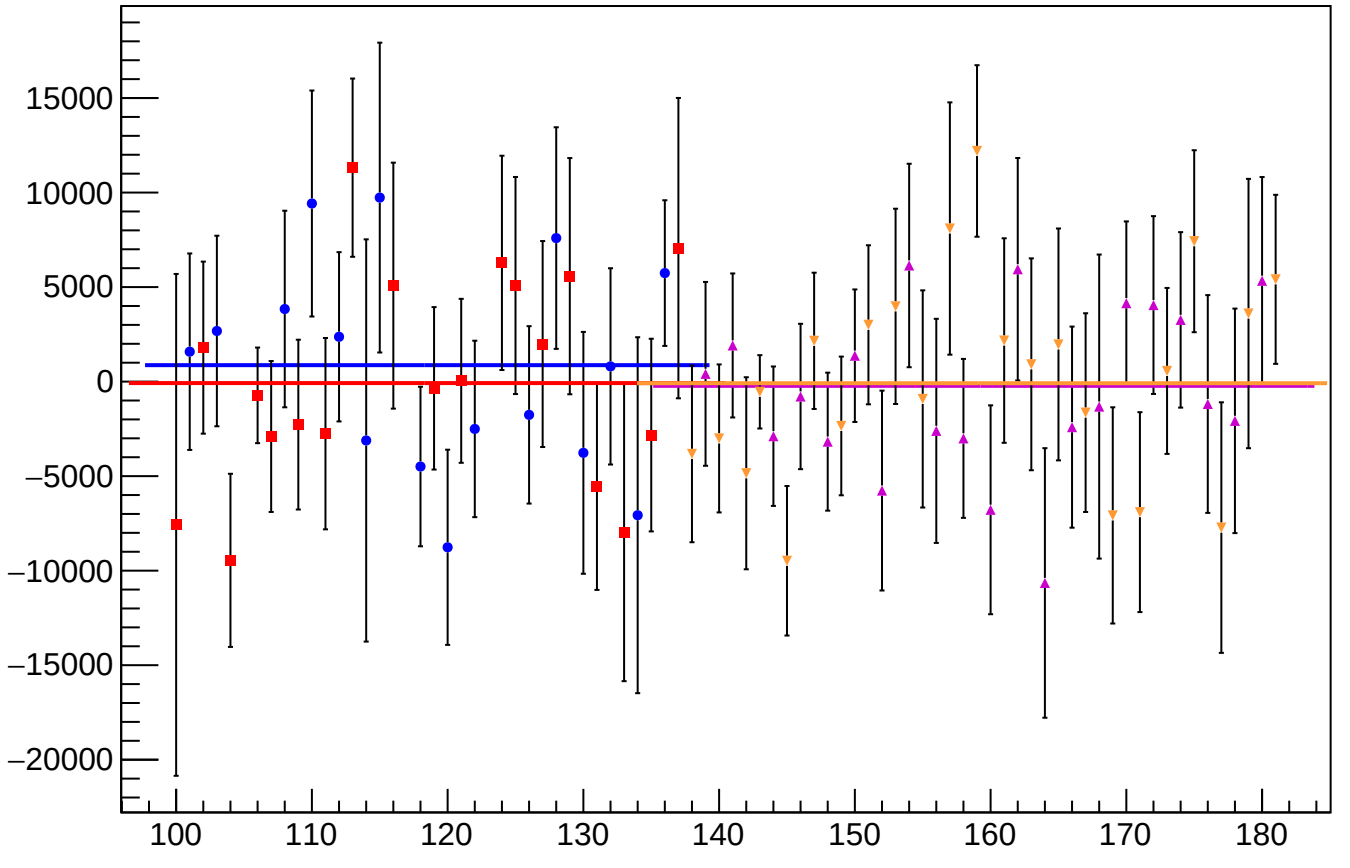
Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551922.0/36

Out: 1278.941+/-0.180 $\chi^2$/NDF:503609.3/41

All: 1274.078+/-0.128 $\chi^2$/NDF: 1057021.8/78




Right In: 870.295+/-1325.278 $\chi^2$/NDF: 14.0/15

Left Out: -84.743+/-909.482 $\chi^2$/NDF:27.7/22

Right Out: -77.323+/-1111.074 $\chi^2$/NDF: 18.4/18

Left In: -223.001+/-1035.187 $\chi^2$/NDF:13.2/20

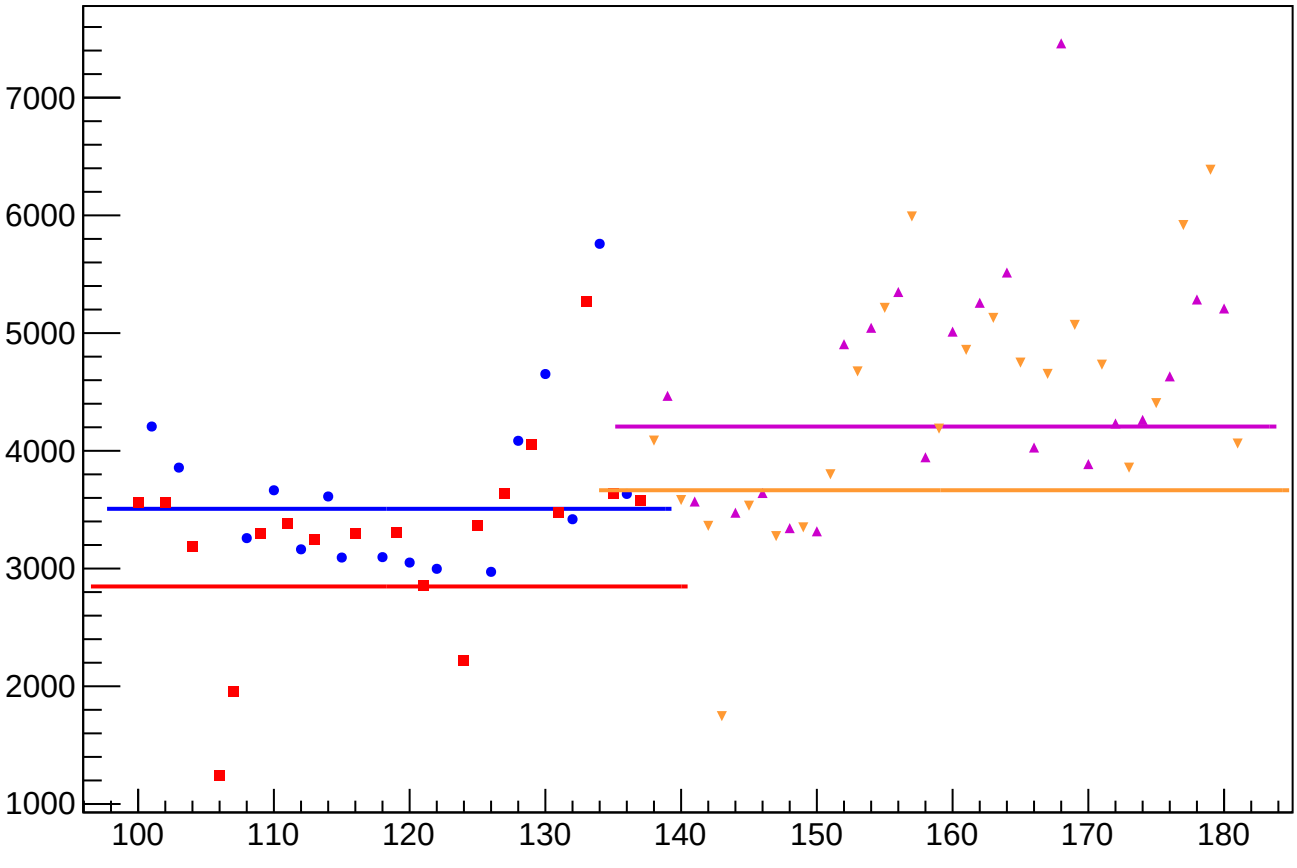
Left: -144.972+/-683.246 $\chi^2$/NDF: 40.9/43

Right: 313.810+/-851.438 $\chi^2$/NDF: 32.7/34

In: 191.285+/-815.808 $\chi^2$/NDF:27.7/36

Out: -81.766+/-703.770 $\chi^2$/NDF:46.1/41

All: 34.736+/-532.885 $\chi^2$/NDF: 73.8/78




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 3665.168+/-0.643 $\chi^2$/NDF:3675034.8/22

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 4206.175+/-0.732 $\chi^2$/NDF:1248623.3/20

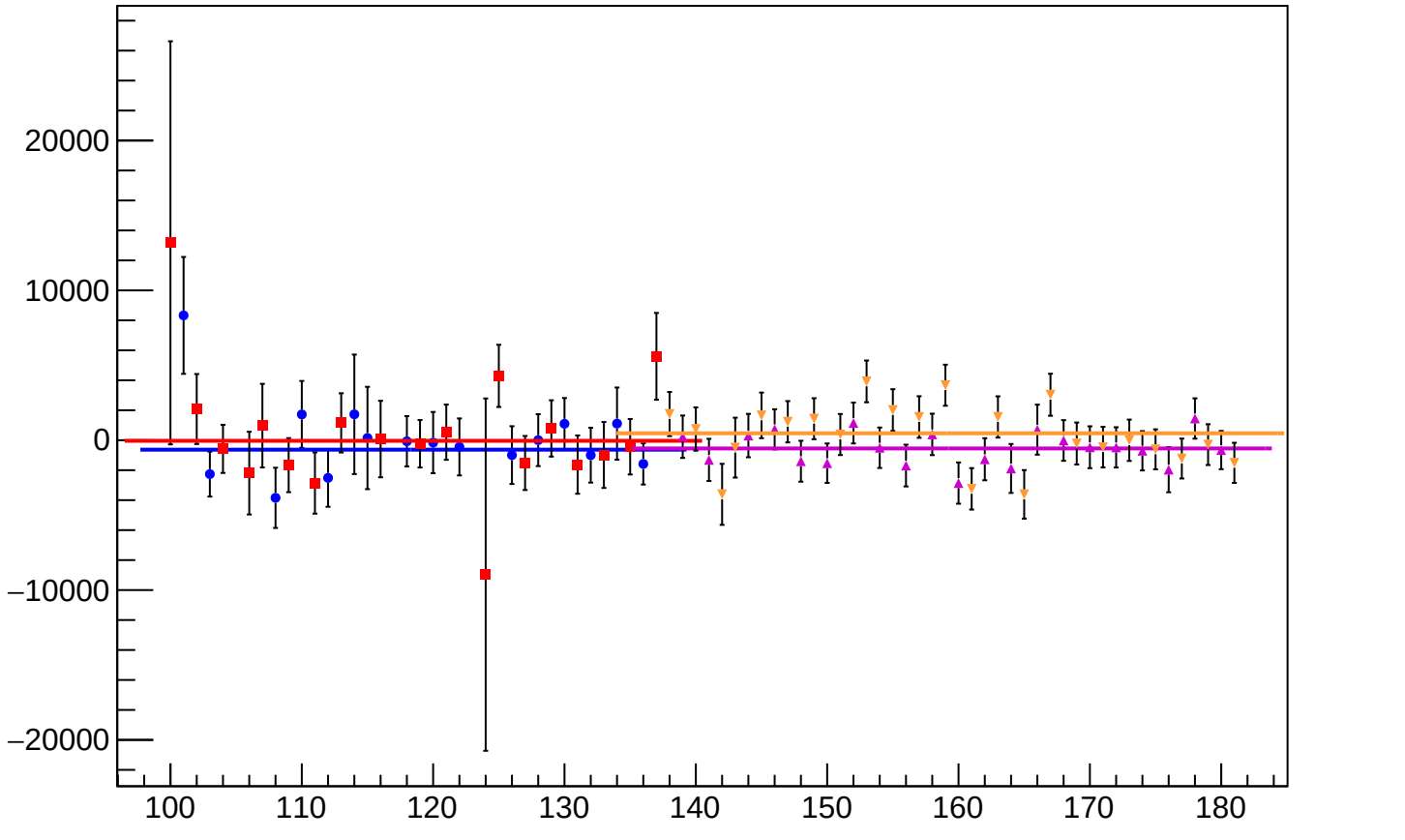
Left: 3900.846+/-0.483 $\chi^2$/NDF: 5231950.4/43

Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3941.385+/-0.577 $\chi^2$/NDF:1947931.3/36

Out: 3337.243+/-0.498 $\chi^2$/NDF:5822471.1/41

All: 3595.011+/-0.377 $\chi^2$/NDF: 8399239.7/78




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.210+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -549.318+/-303.758 $\chi^2$/NDF:13.1/20

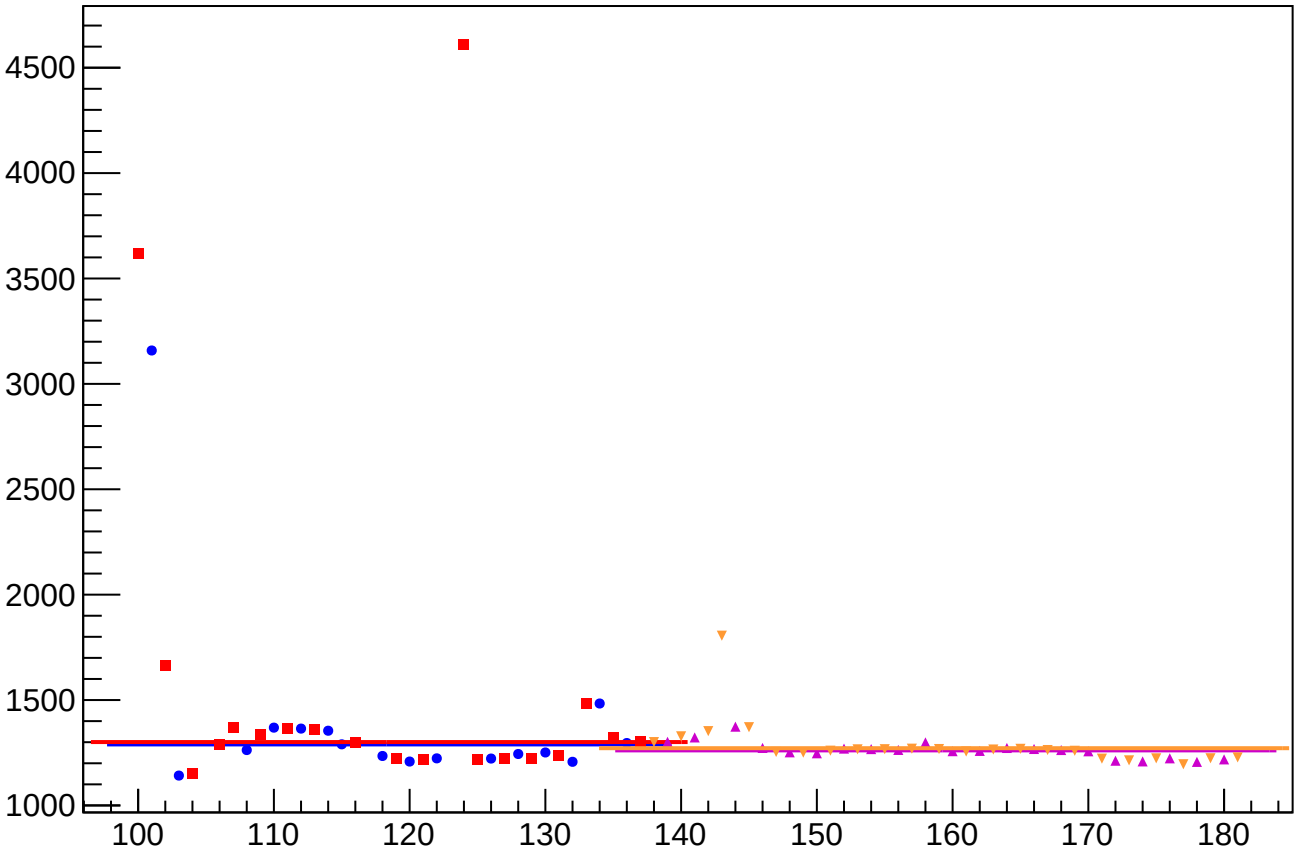
Left: -33.394+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -572.202+/-257.979 $\chi^2$/NDF:27.0/36

Out: 326.399+/-254.165 $\chi^2$/NDF:60.1/41

All: -116.211+/-181.055 $\chi^2$/NDF: 93.3/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.2/20

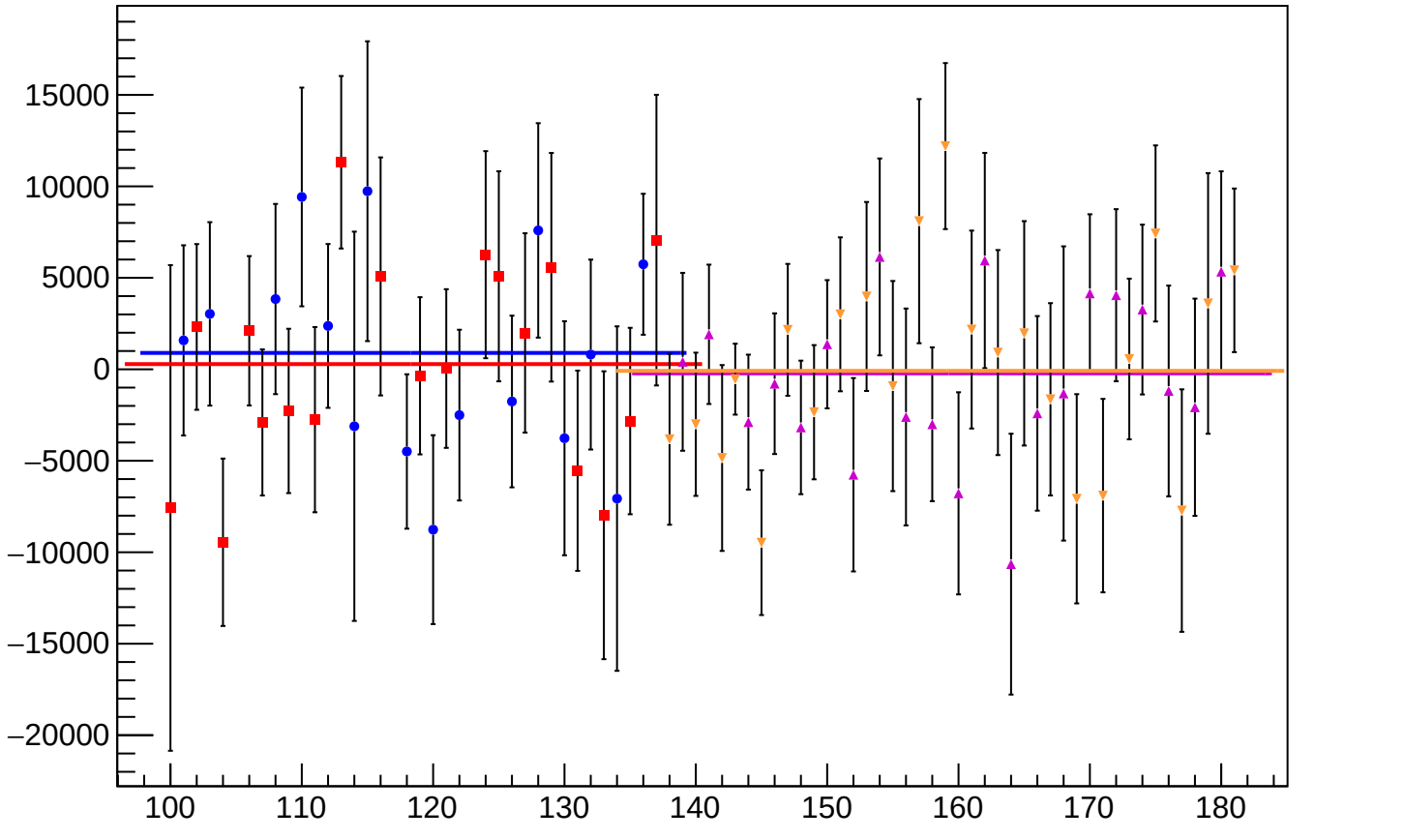
Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551923.4/36

Out: 1279.478+/-0.180 $\chi^2$/NDF:510832.3/41

All: 1274.349+/-0.128 $\chi^2$/NDF: 1064411.8/78




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -84.671+/-909.481 $\chi^2$/NDF:27.7/22

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -222.990+/-1035.185 $\chi^2$/NDF:13.2/20

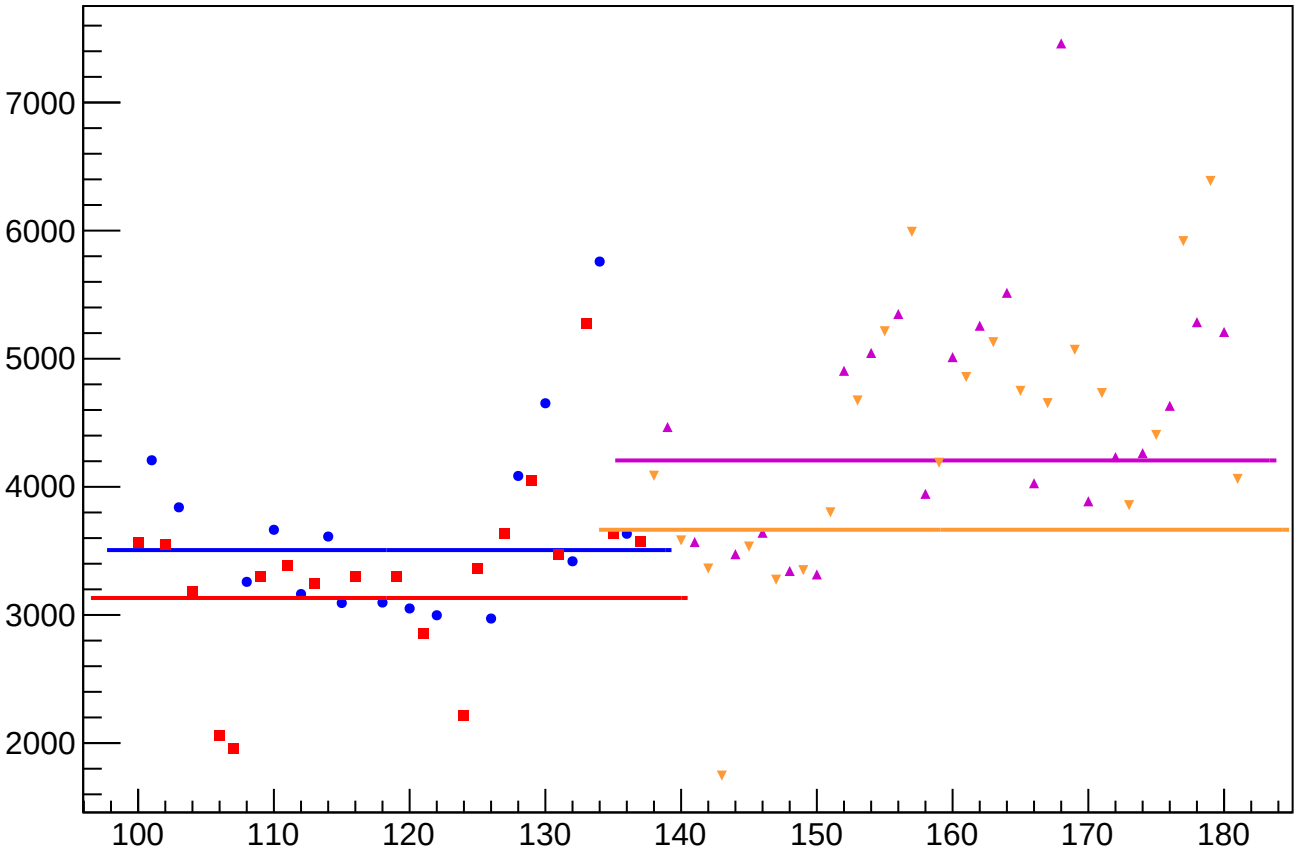
Left: -144.927+/-683.245 $\chi^2$/NDF: 40.9/43

Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 201.218+/-815.701 $\chi^2$/NDF:27.8/36

Out: 52.244+/-721.068 $\chi^2$/NDF:46.4/41

All: 117.592+/-540.246 $\chi^2$/NDF: 74.1/78




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 3665.160+/-0.643 $\chi^2$/NDF:3675073.2/22

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 4206.169+/-0.732 $\chi^2$/NDF:1248621.9/20

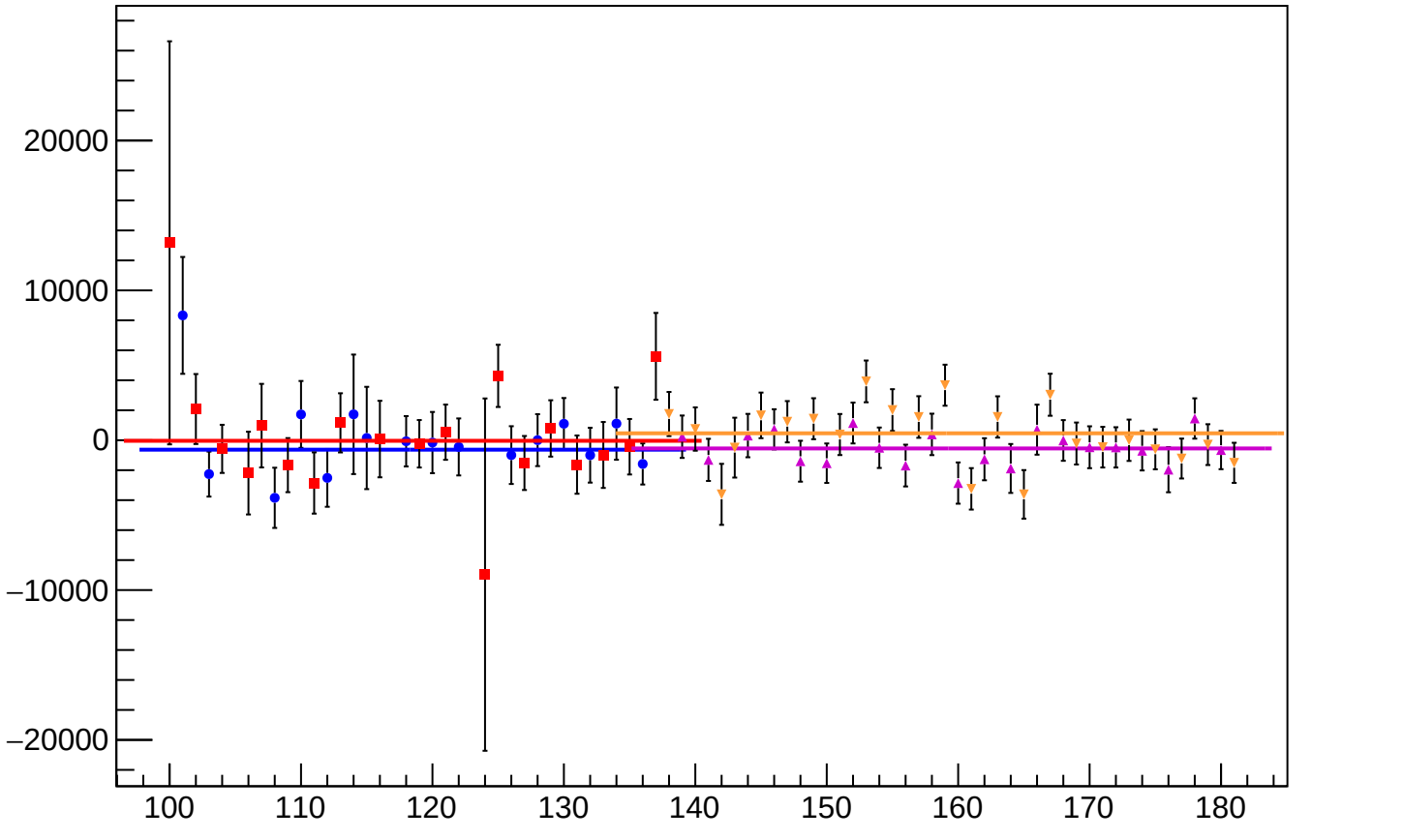
Left: 3900.839+/-0.483 $\chi^2$/NDF: 5231990.5/43

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3940.923+/-0.577 $\chi^2$/NDF:1948233.7/36

Out: 3467.355+/-0.510 $\chi^2$/NDF:4579402.4/41

All: 3675.087+/-0.382 $\chi^2$/NDF: 6906046.0/78




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.210+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -549.318+/-303.758 $\chi^2$/NDF:13.1/20

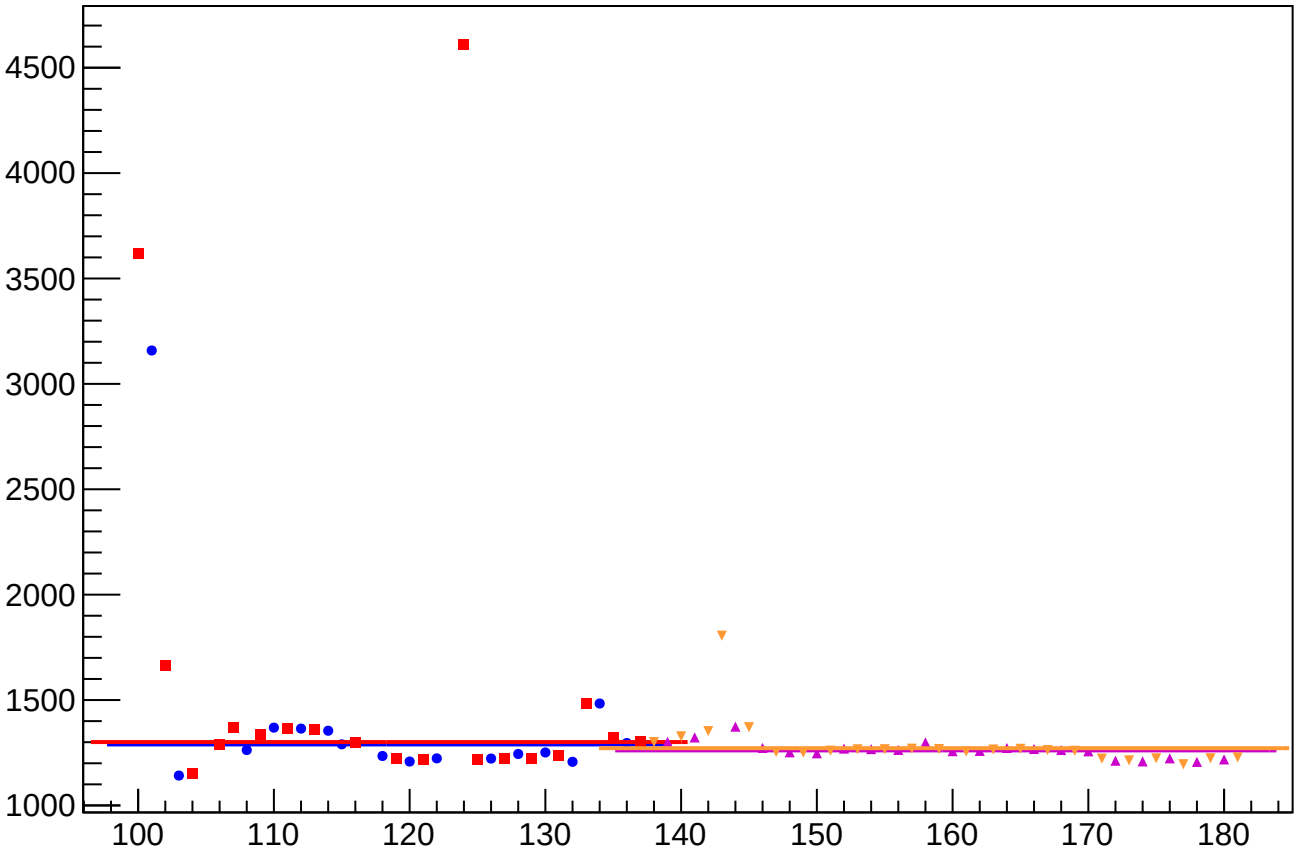
Left: -33.394+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -572.202+/-257.979 $\chi^2$/NDF:27.0/36

Out: 326.399+/-254.165 $\chi^2$/NDF:60.1/41

All: -116.211+/-181.055 $\chi^2$/NDF: 93.3/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.2/20

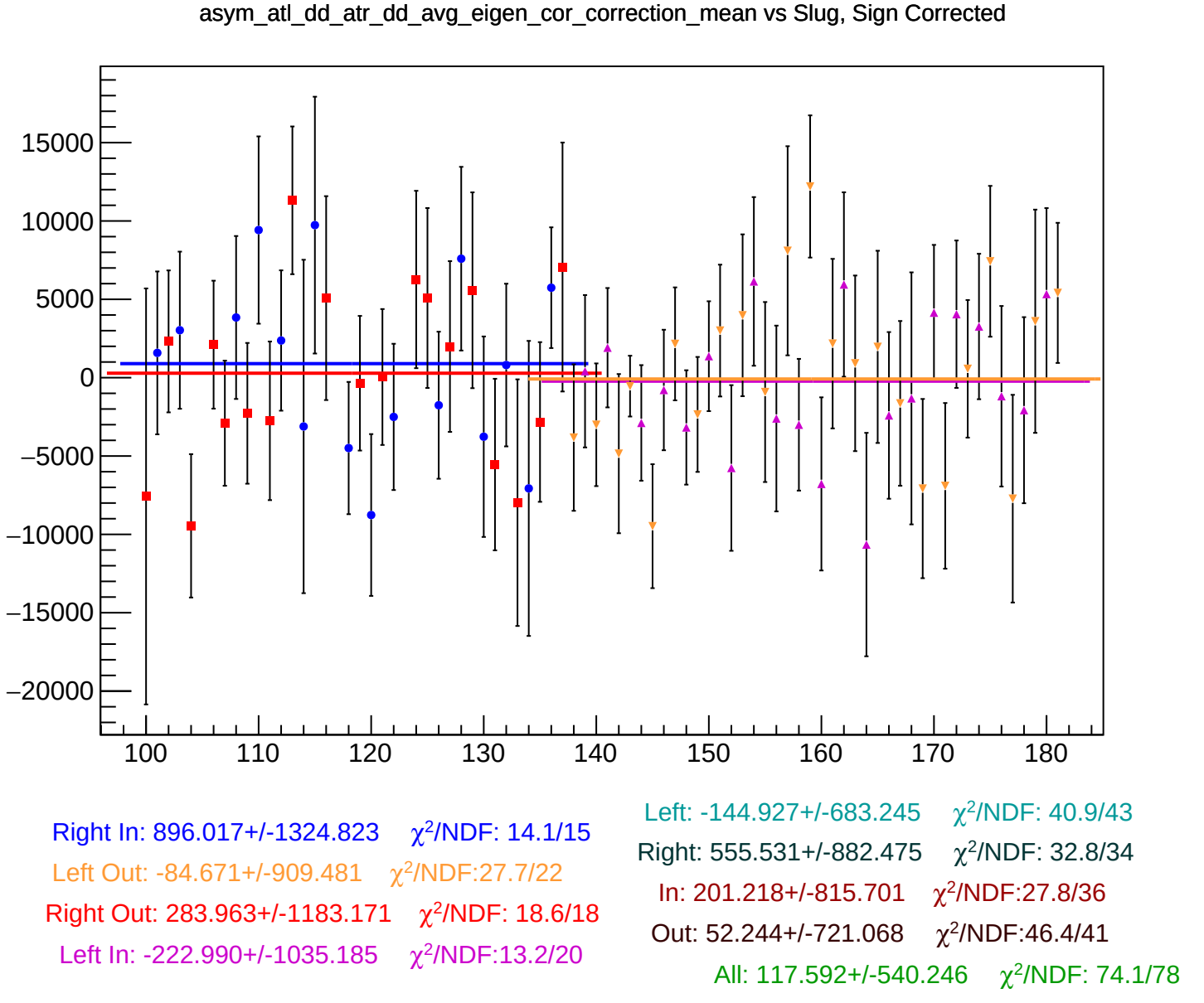
Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

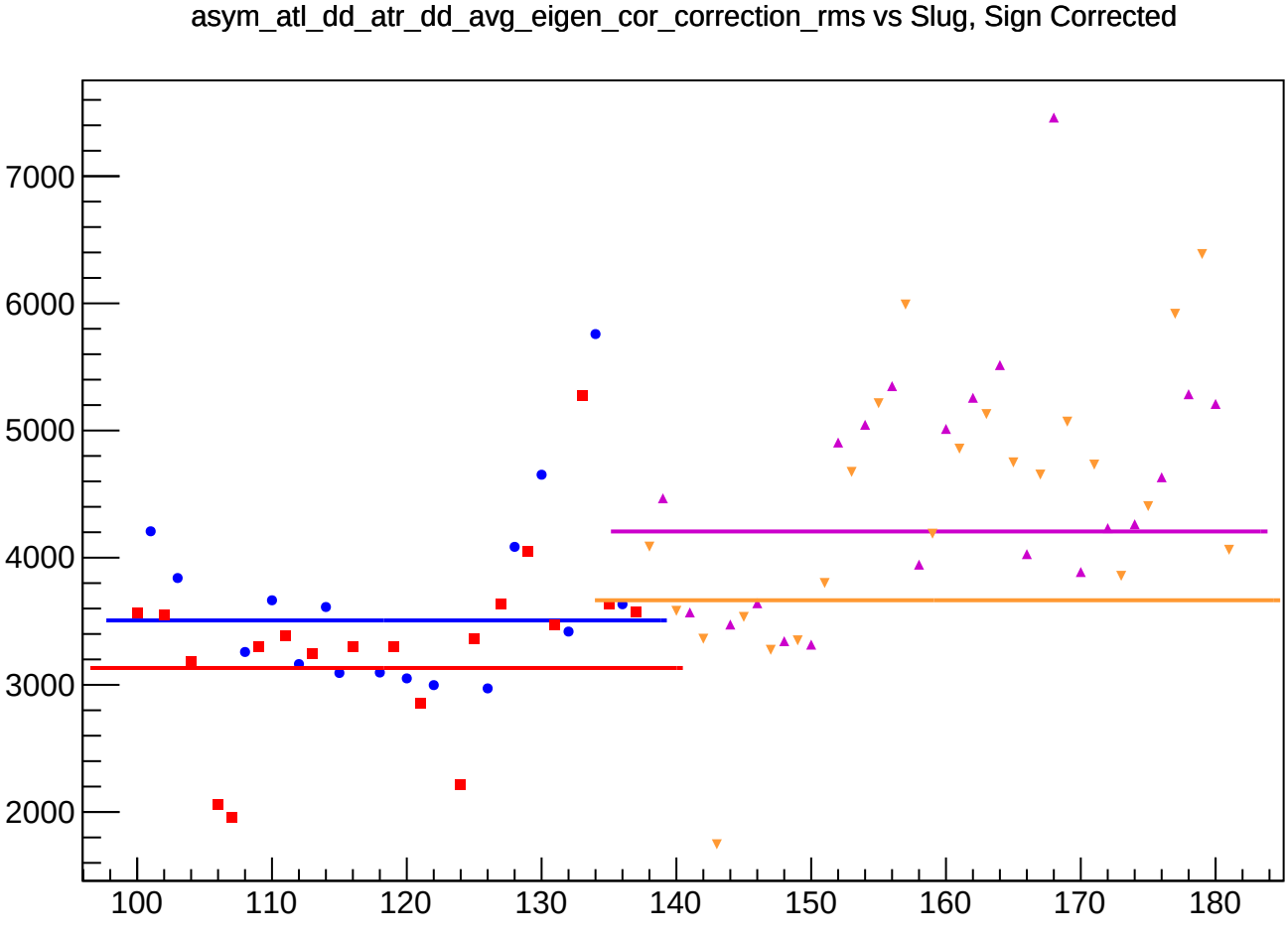
Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551923.4/36

Out: 1279.478+/-0.180 $\chi^2$/NDF:510832.3/41

All: 1274.349+/-0.128 $\chi^2$/NDF: 1064411.8/78


asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
160
170
180
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -84.671+/-909.481 χ²/NDF:27.7/22
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -222.990+/-1035.185 χ²/NDF:13.2/20
Left: -144.927+/-683.245 χ²/NDF: 40.9/43
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 201.218+/-815.701 χ²/NDF:27.8/36
Out: 52.244+/-721.068 χ²/NDF:46.4/41
All: 117.592+/-540.246 χ²/NDF: 74.1/78




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 3665.160+/-0.643 $\chi^2$/NDF:3675073.2/22

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 4206.169+/-0.732 $\chi^2$/NDF:1248621.9/20

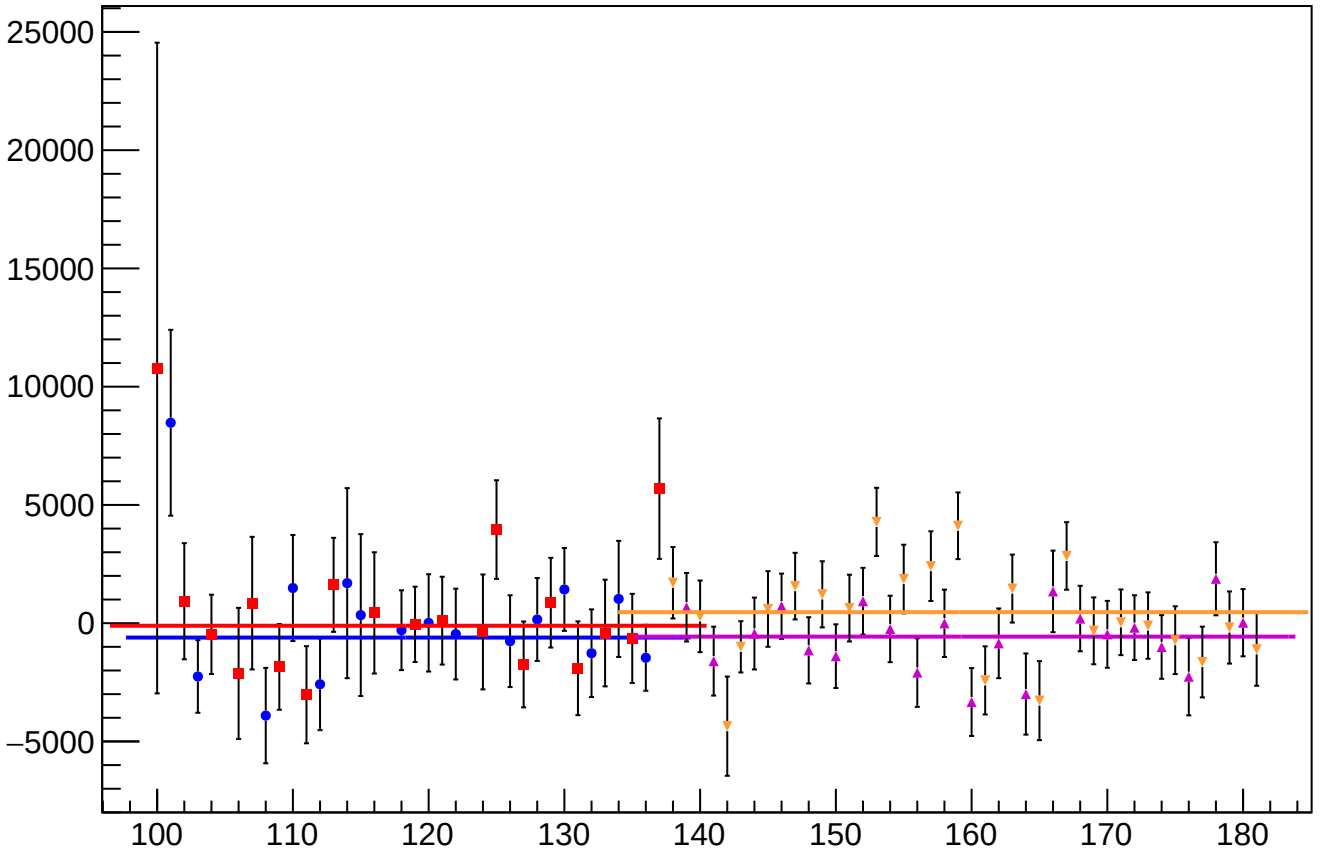
Left: 3900.839+/-0.483 $\chi^2$/NDF: 5231990.5/43

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3940.923+/-0.577 $\chi^2$/NDF:1948233.7/36

Out: 3467.355+/-0.510 $\chi^2$/NDF:4579402.4/41

All: 3675.087+/-0.382 $\chi^2$/NDF: 6906046.0/78




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 465.770+/-302.813 $\chi^2$/NDF:41.8/22

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -568.638+/-316.767 $\chi^2$/NDF:16.3/20

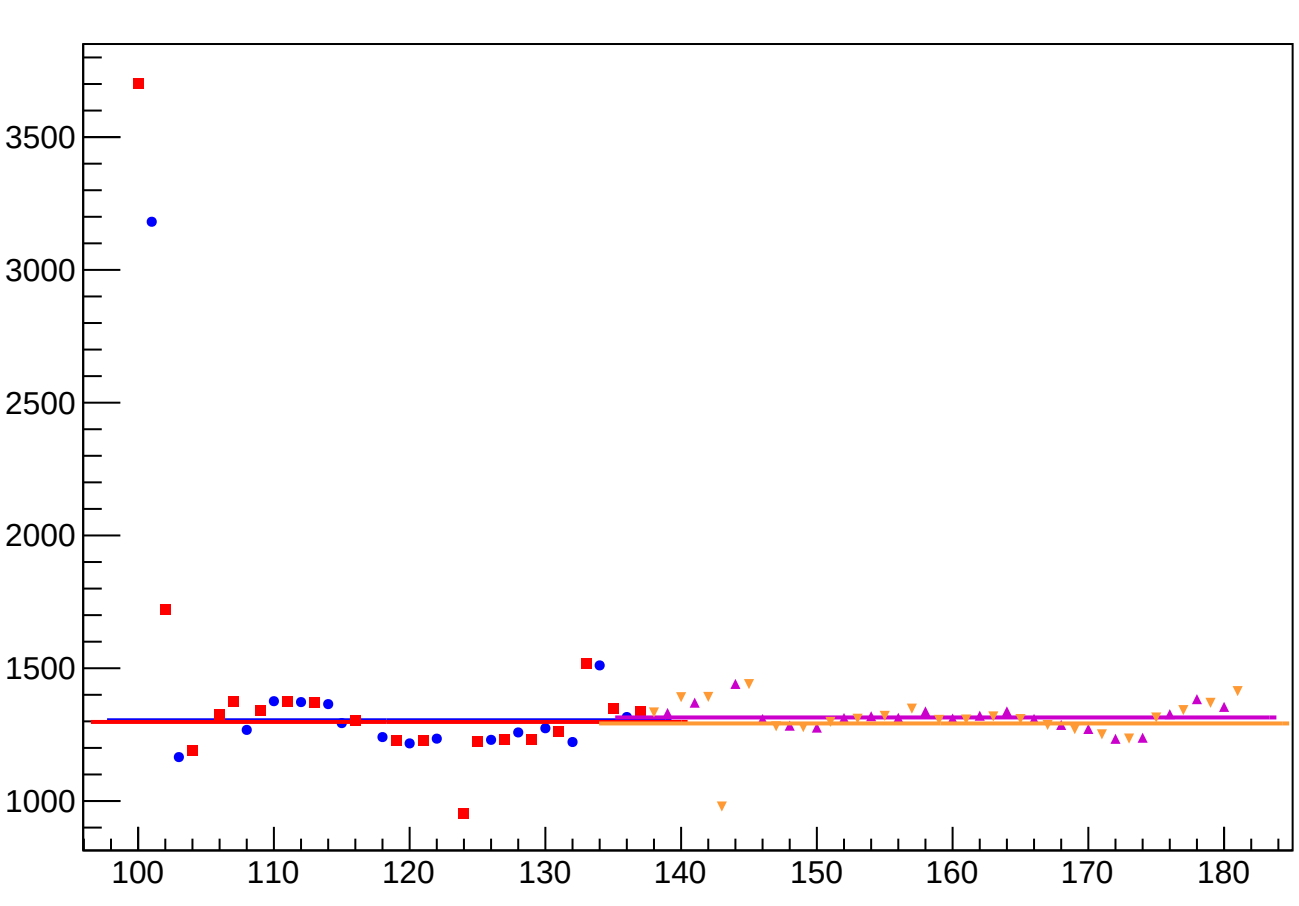
Left: -28.149+/-218.888 $\chi^2$/NDF: 63.7/43

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -580.052+/-266.684 $\chi^2$/NDF:30.4/36

Out: 304.929+/-256.941 $\chi^2$/NDF:57.7/41

All: -121.101+/-185.033 $\chi^2$/NDF: 93.9/78




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1292.099+/-0.214 $\chi^2$/NDF:229751.7/22

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1314.719+/-0.224 $\chi^2$/NDF:42300.5/20

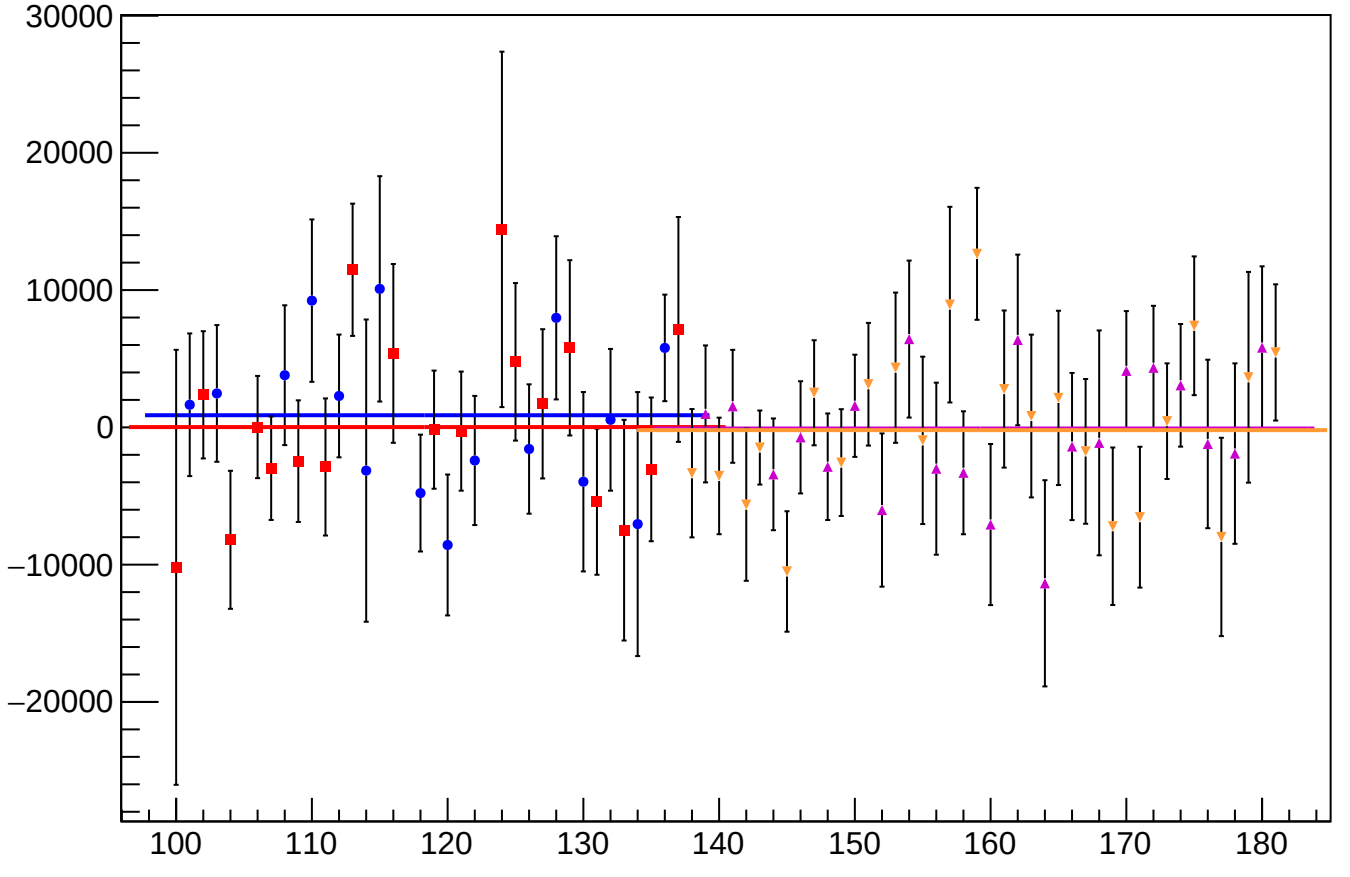
Left: 1302.900+/-0.155 $\chi^2$/NDF: 277380.8/43

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1311.627+/-0.189 $\chi^2$/NDF:553544.1/36

Out: 1293.696+/-0.182 $\chi^2$/NDF:443047.0/41

All: 1302.326+/-0.131 $\chi^2$/NDF: 1001281.0/78




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -201.438+/-1004.291 $\chi^2$/NDF:27.2/22

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -82.228+/-1085.423 $\chi^2$/NDF:13.1/20

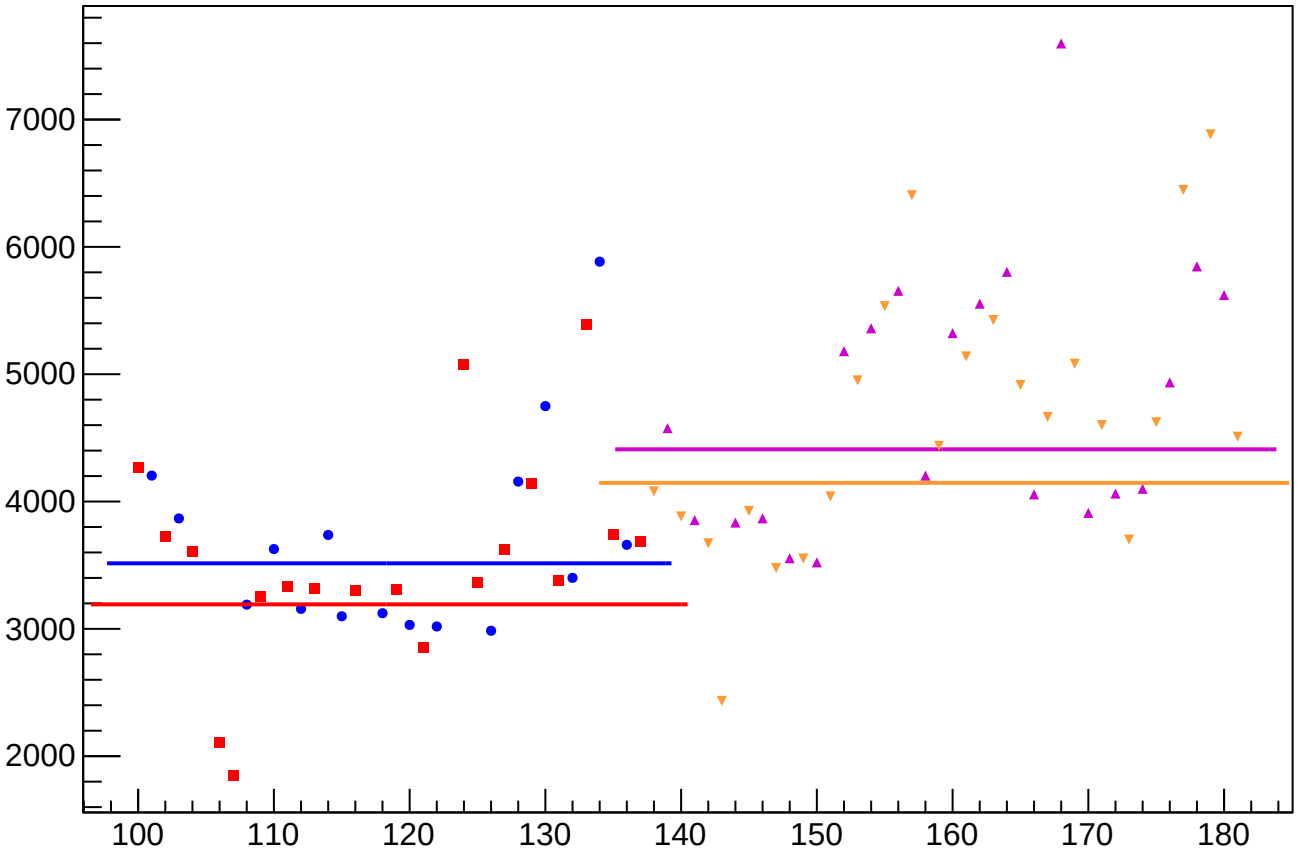
Left: -146.454+/-737.156 $\chi^2$/NDF: 40.3/43

Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 304.973+/-840.267 $\chi^2$/NDF:27.5/36

Out: -109.946+/-770.166 $\chi^2$/NDF:44.1/41

All: 79.486+/-567.757 $\chi^2$/NDF: 71.7/78




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 4146.558+/-0.710 $\chi^2$/NDF:2077011.7/22

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 4410.019+/-0.768 $\chi^2$/NDF:1239942.6/20

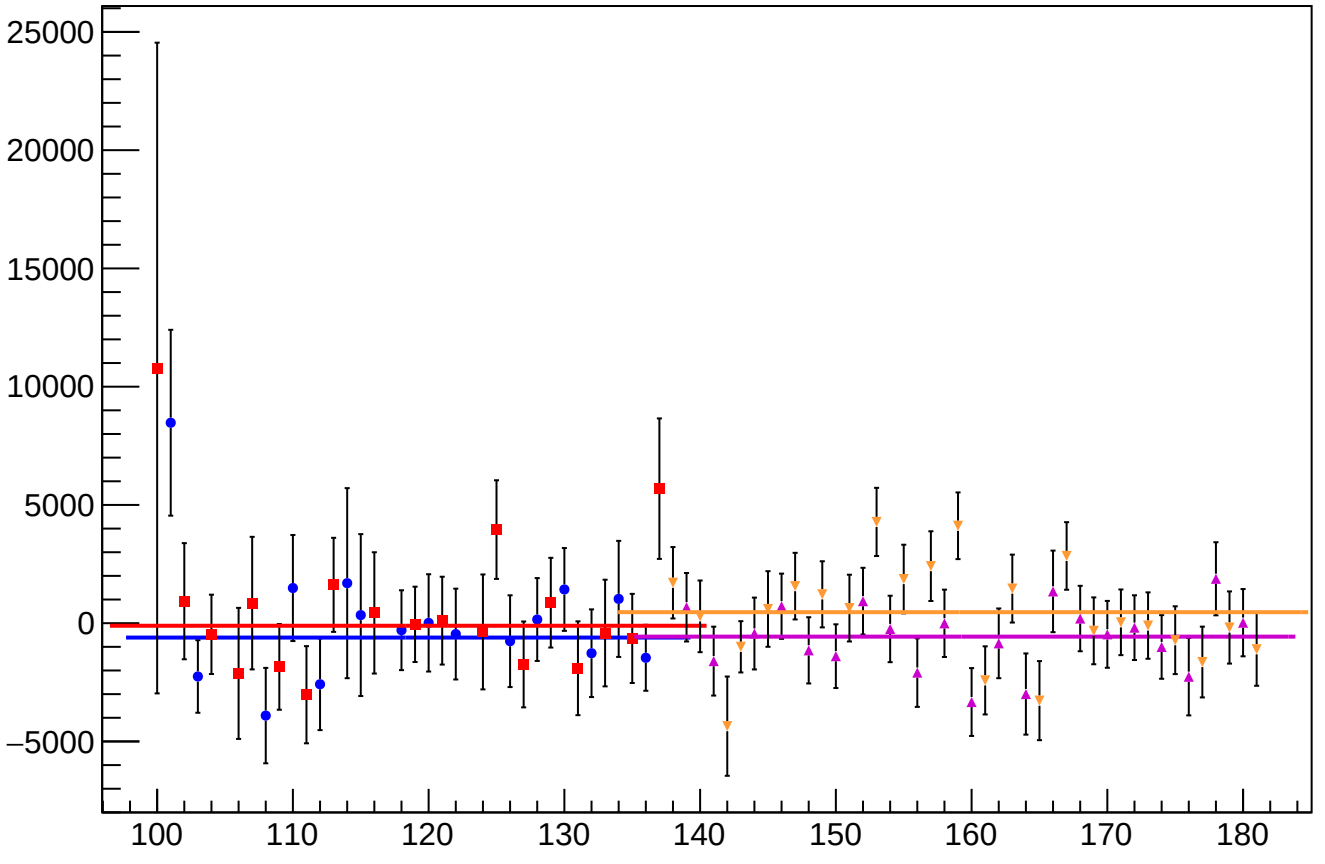
Left: 4268.075+/-0.521 $\chi^2$/NDF: 3380438.5/43

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 4051.273+/-0.594 $\chi^2$/NDF:2160245.0/36

Out: 3753.456+/-0.545 $\chi^2$/NDF:3593425.4/41

All: 3889.426+/-0.401 $\chi^2$/NDF: 5890207.7/78




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 465.773+/-302.814 $\chi^2$/NDF:41.8/22

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -568.639+/-316.768 $\chi^2$/NDF:16.3/20

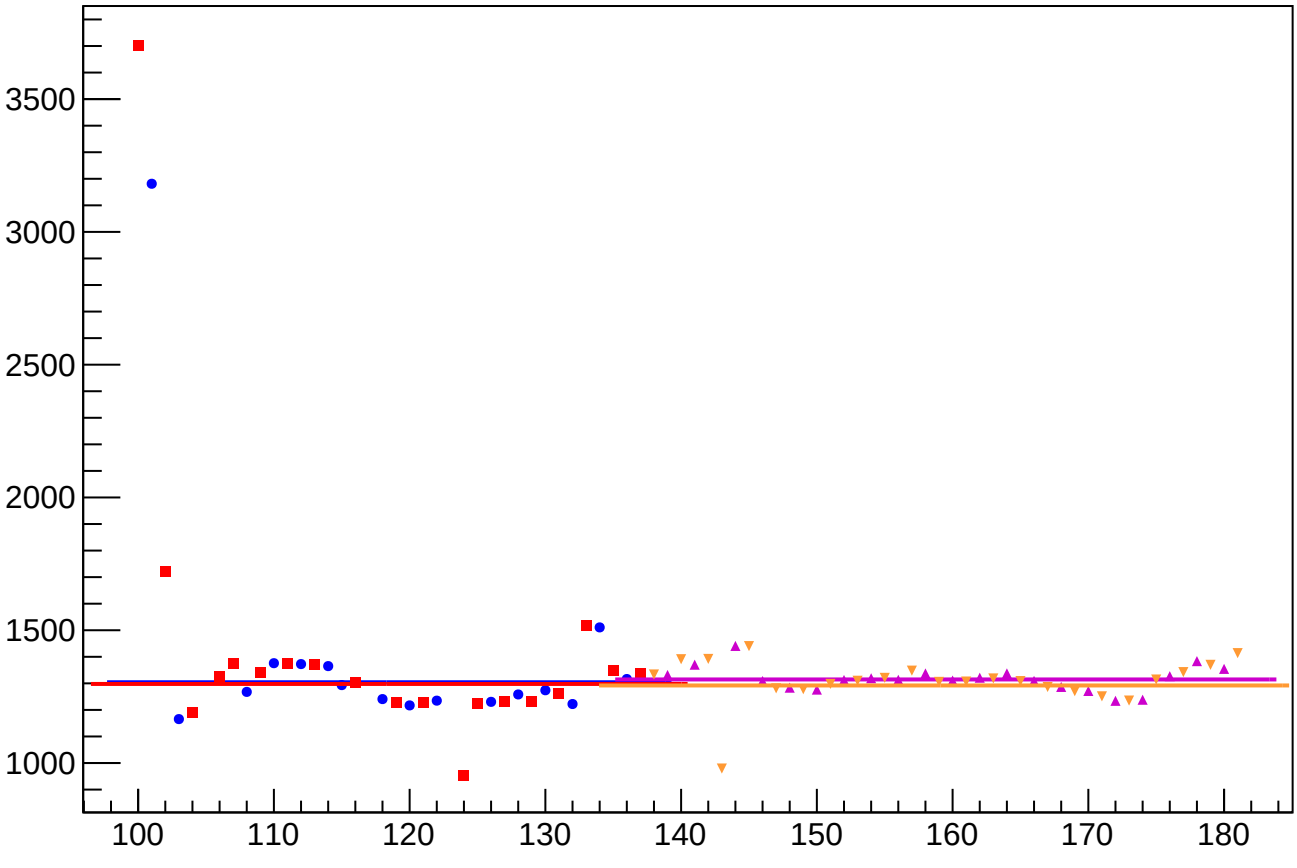
Left: -28.148+/-218.889 $\chi^2$/NDF: 63.7/43

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -580.053+/-266.684 $\chi^2$/NDF:30.4/36

Out: 304.929+/-256.942 $\chi^2$/NDF:57.7/41

All: -121.102+/-185.033 $\chi^2$/NDF: 93.9/78




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1292.100+/-0.214 $\chi^2$/NDF:229754.2/22

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1314.720+/-0.224 $\chi^2$/NDF:42302.6/20

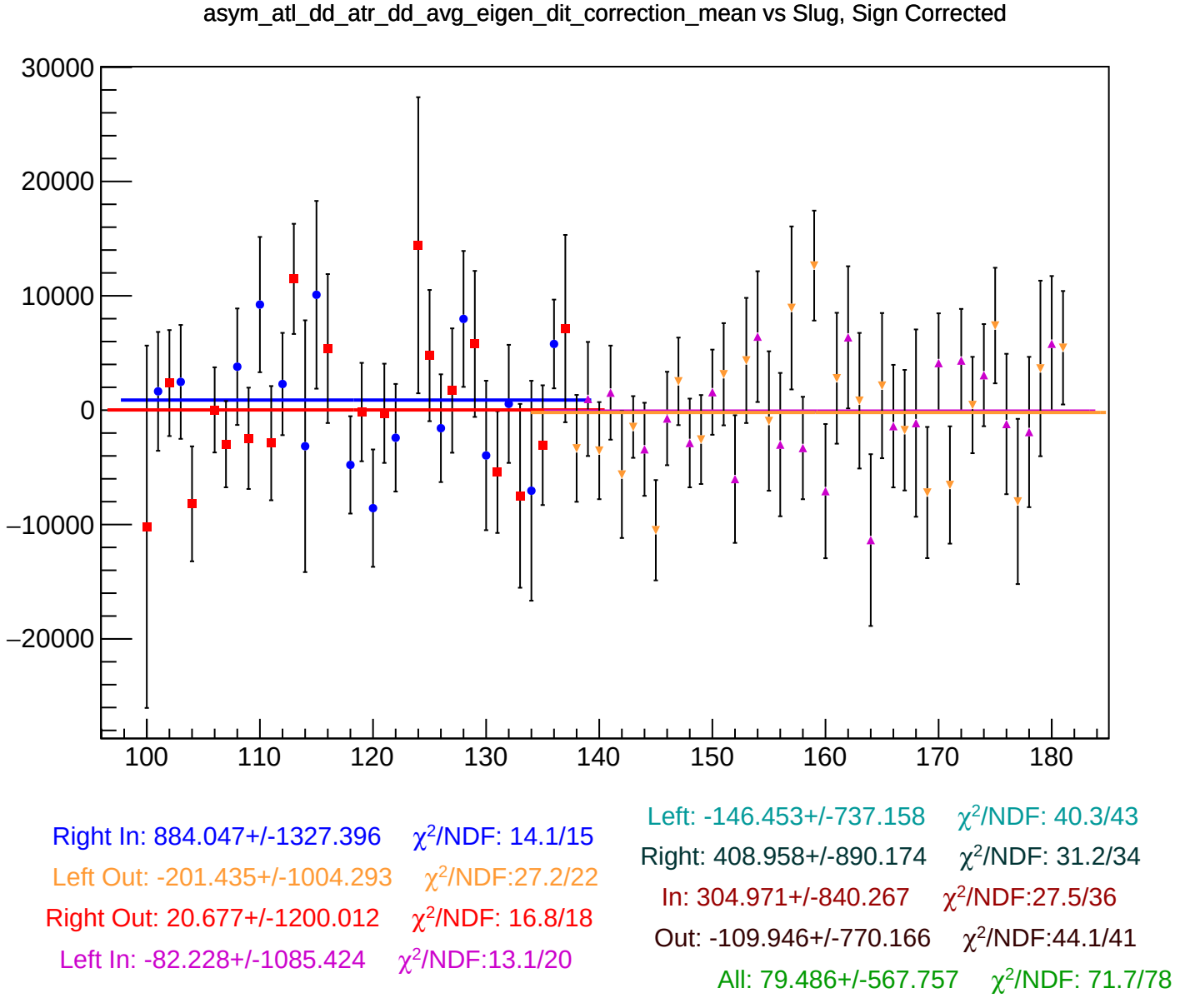
Left: 1302.901+/-0.155 $\chi^2$/NDF: 277385.5/43

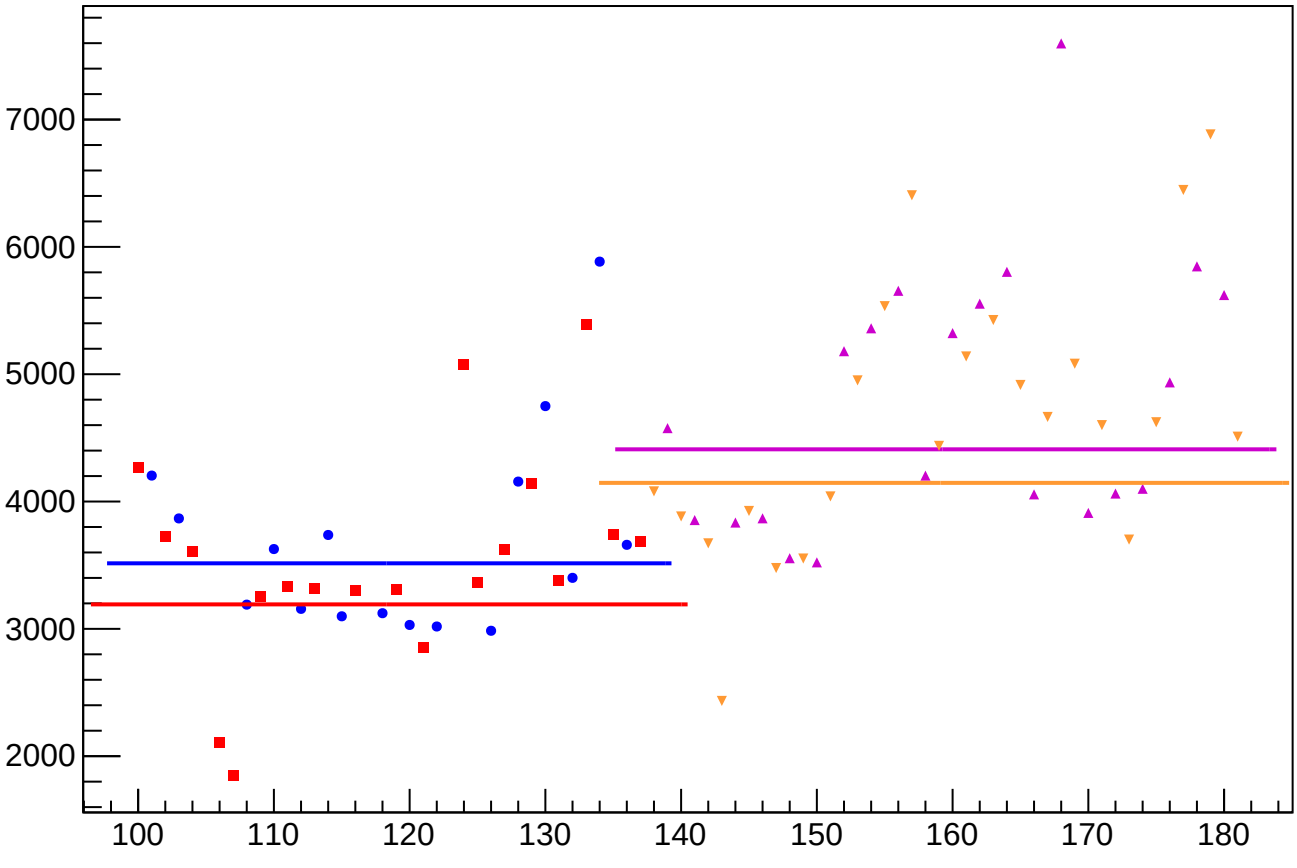
Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

In: 1311.628+/-0.189 $\chi^2$/NDF:553546.6/36

Out: 1293.697+/-0.182 $\chi^2$/NDF:443049.5/41

All: 1302.327+/-0.131 $\chi^2$/NDF: 1001286.0/78


asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: 884.047+/-1327.396 χ²/NDF: 14.1/15
Left Out: -201.435+/-1004.293 χ²/NDF:27.2/22
Right Out: 20.677+/-1200.012 χ²/NDF: 16.8/18
Left In: -82.228+/-1085.424 χ²/NDF:13.1/20
Left: -146.453+/-737.158 χ²/NDF: 40.3/43
Right: 408.958+/-890.174 χ²/NDF: 31.2/34
In: 304.971+/-840.267 χ²/NDF:27.5/36
Out: -109.946+/-770.166 χ²/NDF:44.1/41
All: 79.486+/-567.757 χ²/NDF: 71.7/78




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 4146.564+/-0.710 $\chi^2$/NDF:2077014.6/22

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 4410.026+/-0.768 $\chi^2$/NDF:1239946.7/20

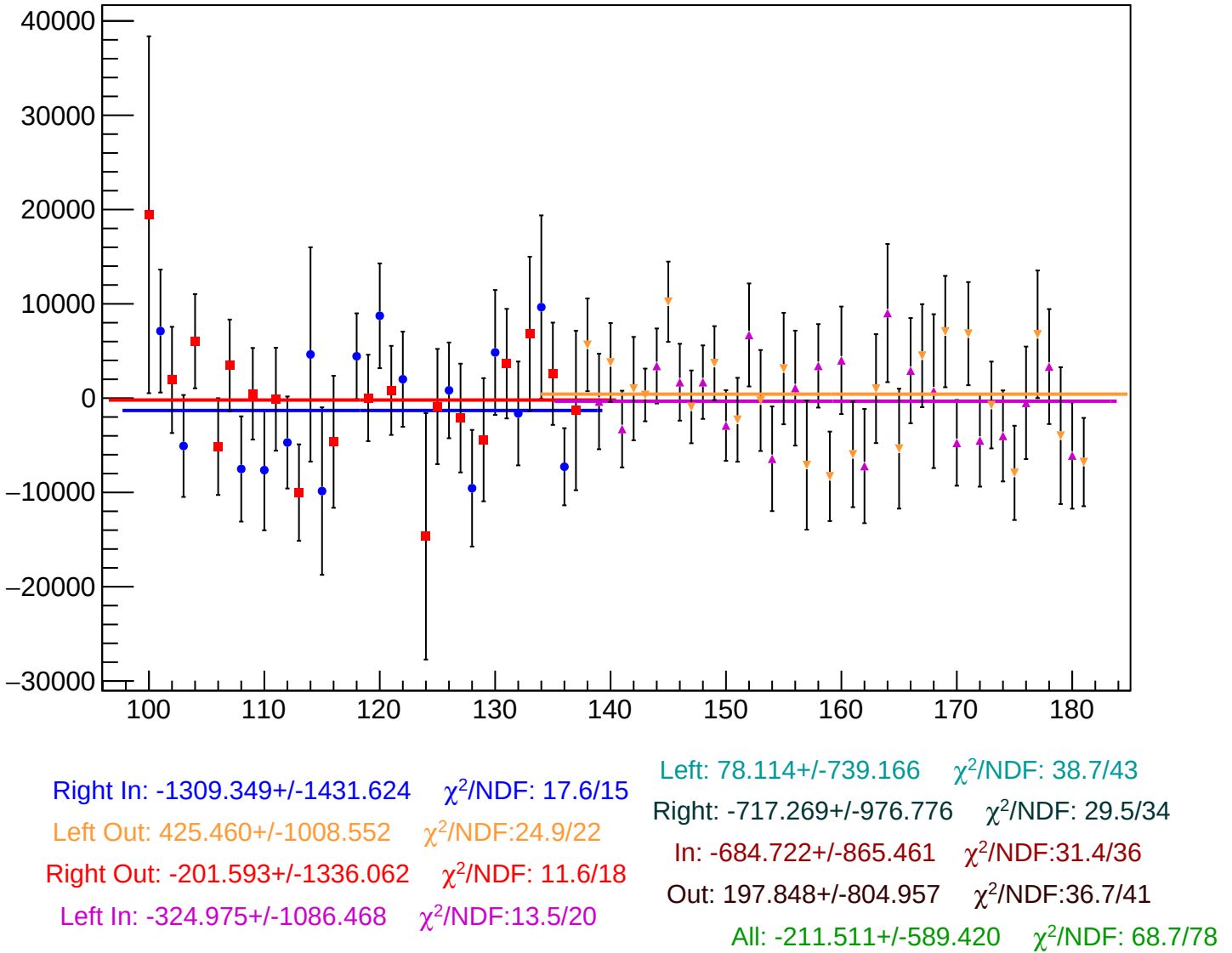
Left: 4268.082+/-0.521 $\chi^2$/NDF: 3380445.4/43

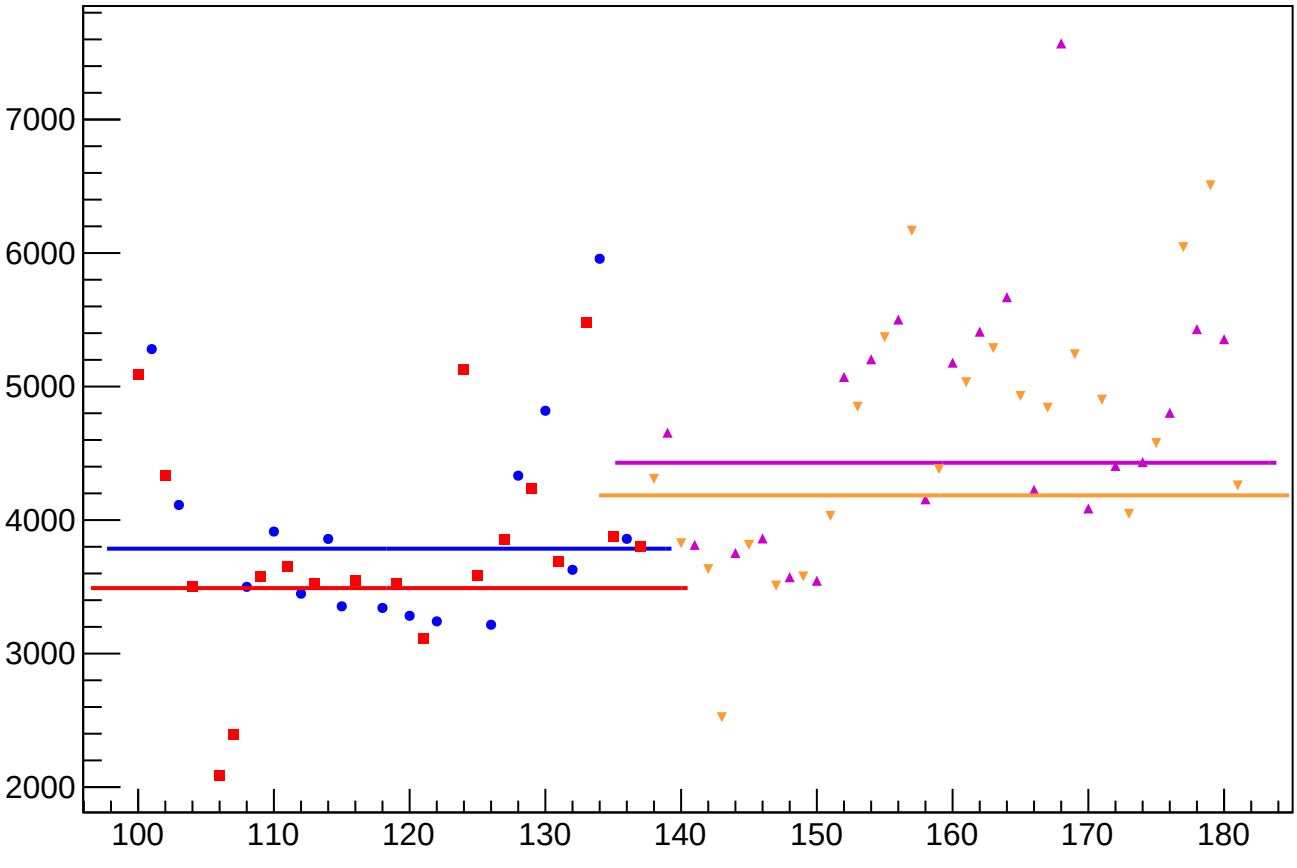
Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 4051.272+/-0.594 $\chi^2$/NDF:2160273.6/36

Out: 3753.455+/-0.545 $\chi^2$/NDF:3593453.8/41

All: 3889.424+/-0.401 $\chi^2$/NDF: 5890264.7/78


asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: -1309.349+/-1431.624 χ²/NDF: 17.6/15
Left Out: 425.460+/-1008.552 χ²/NDF:24.9/22
Right Out: -201.593+/-1336.062 χ²/NDF: 11.6/18
Left In: -324.975+/-1086.468 χ²/NDF:13.5/20
Left: 78.114+/-739.166 χ²/NDF: 38.7/43
Right: -717.269+/-976.776 χ²/NDF: 29.5/34
In: -684.722+/-865.461 χ²/NDF:31.4/36
Out: 197.848+/-804.957 χ²/NDF:36.7/41
All: -211.511+/-589.420 χ²/NDF: 68.7/78




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 4185.197+/-0.713 $\chi^2$/NDF:1796091.9/22

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 4429.354+/-0.768 $\chi^2$/NDF:1060790.8/20

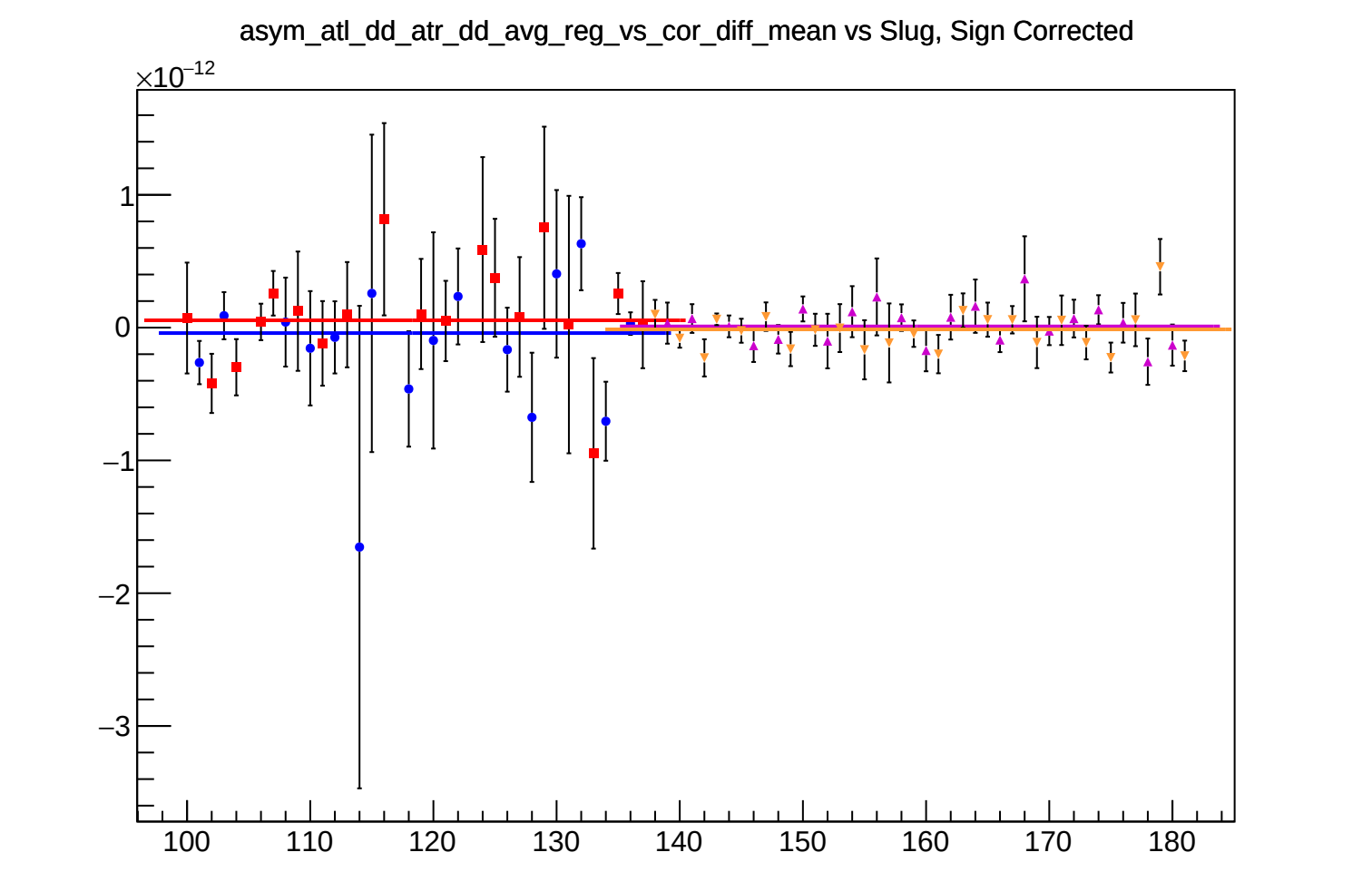
Left: 4298.207+/-0.523 $\chi^2$/NDF: 2911135.4/43

Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 4194.150+/-0.612 $\chi^2$/NDF:1700257.4/36

Out: 3928.646+/-0.566 $\chi^2$/NDF:2733179.7/41

All: 4051.131+/-0.416 $\chi^2$/NDF: 4534829.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.5/20

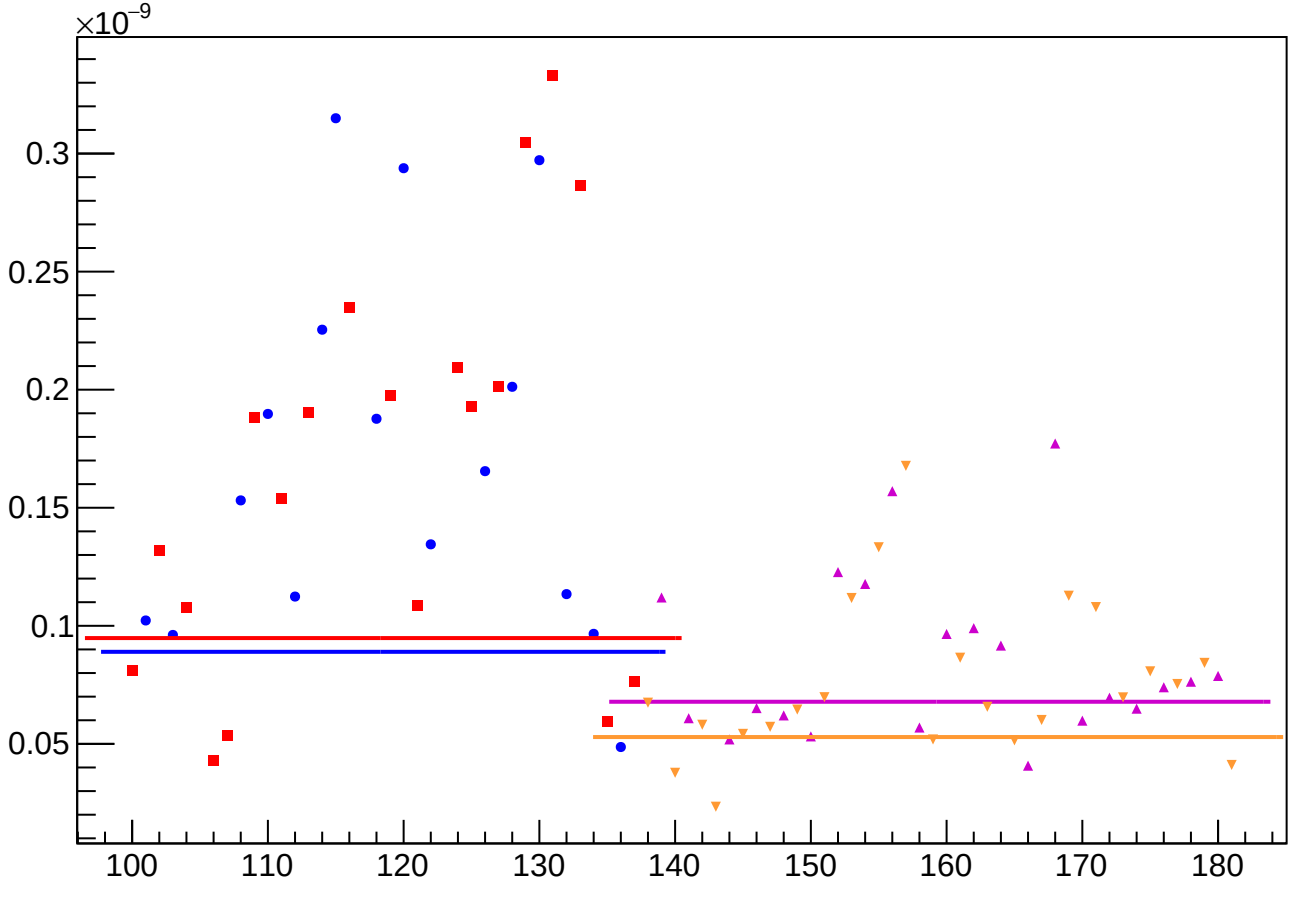
Left: -0.000+/-0.000 $\chi^2$/NDF: 42.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:32.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:43.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 76.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2614098.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1395768.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4353207.3/43

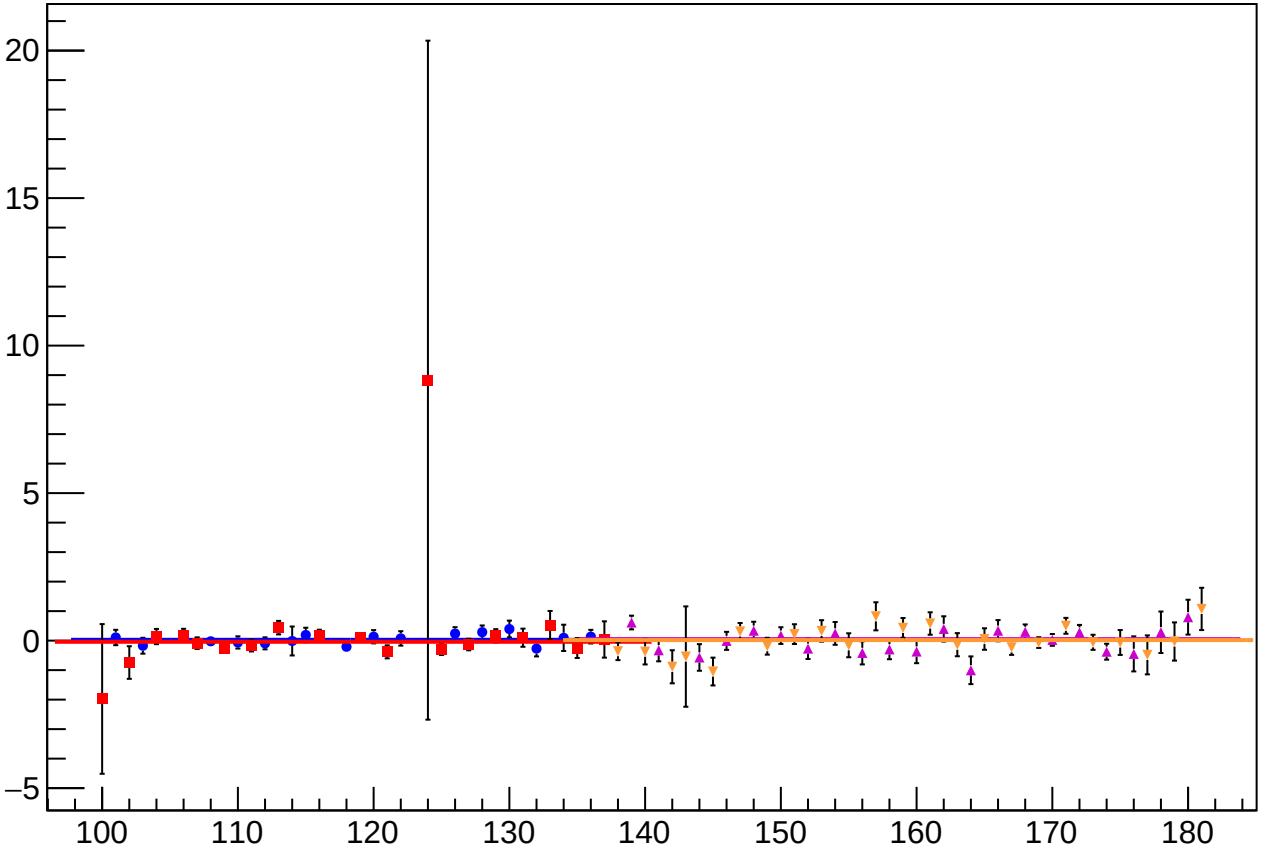
Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:3066247.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5111328.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8541239.8/78

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

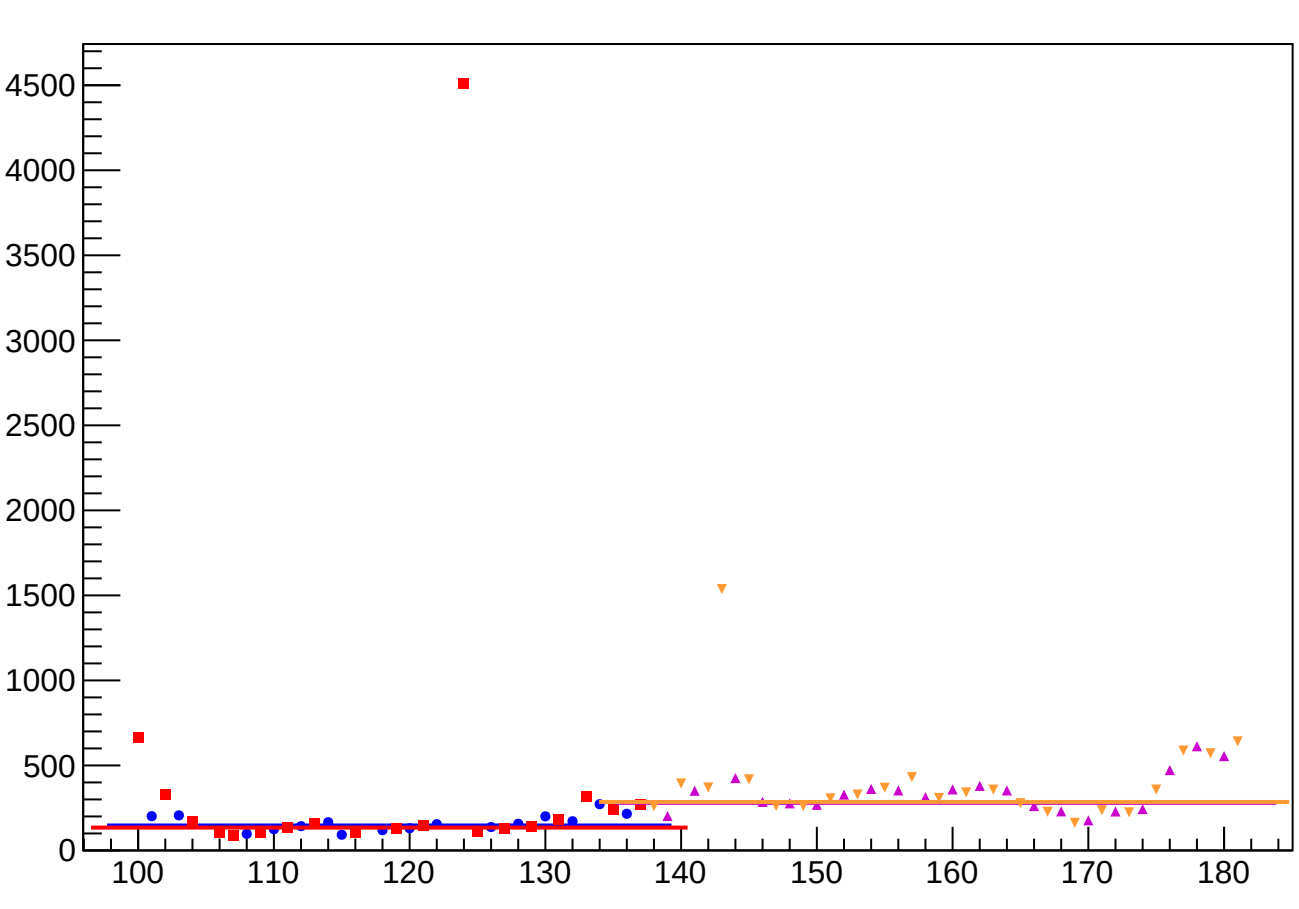
Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442266.0/22

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 279.868+/-0.050 $\chi^2$/NDF:2781571.7/20

Left: 282.499+/-0.036 $\chi^2$/NDF: 7229341.0/43

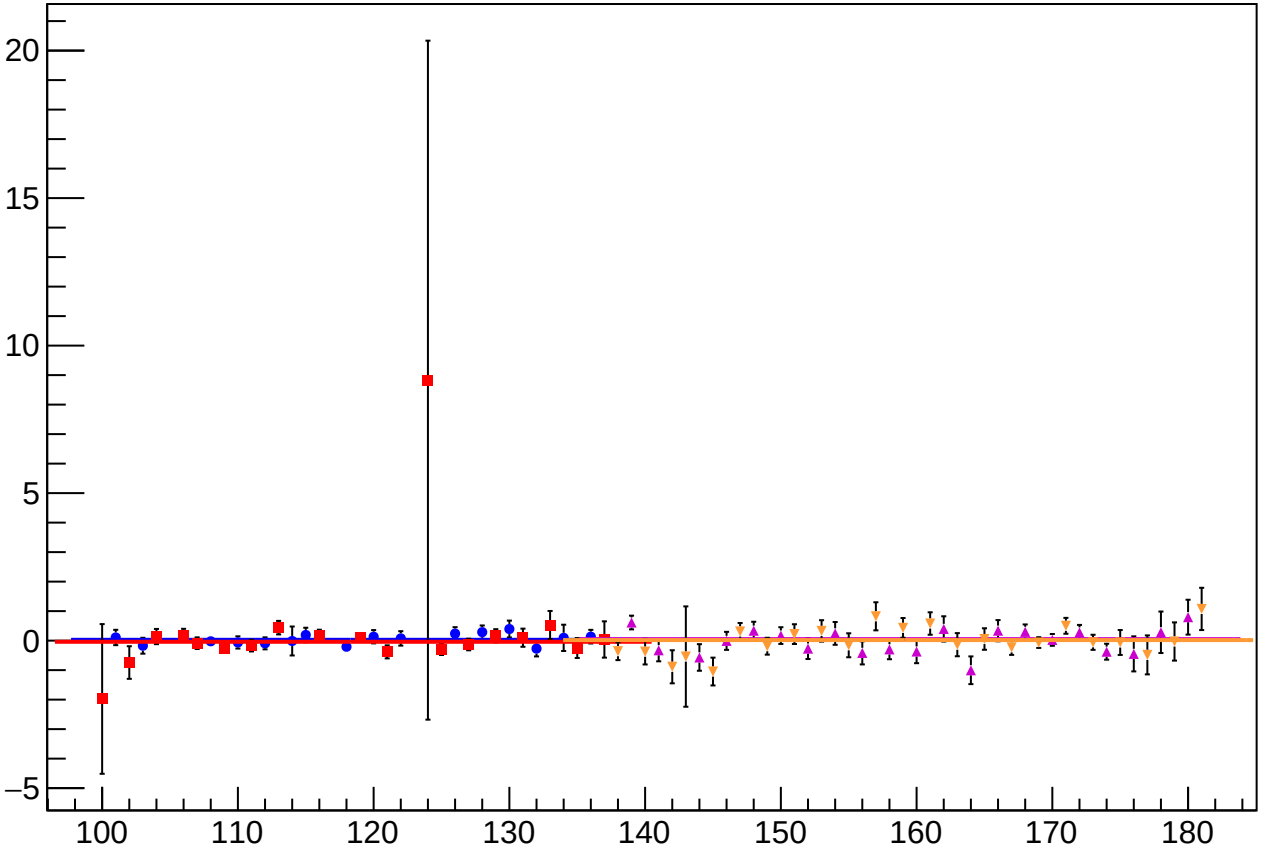
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985407.1/36

Out: 189.624+/-0.031 $\chi^2$/NDF:11584381.2/41

All: 194.399+/-0.022 $\chi^2$/NDF: 19619100.6/78

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

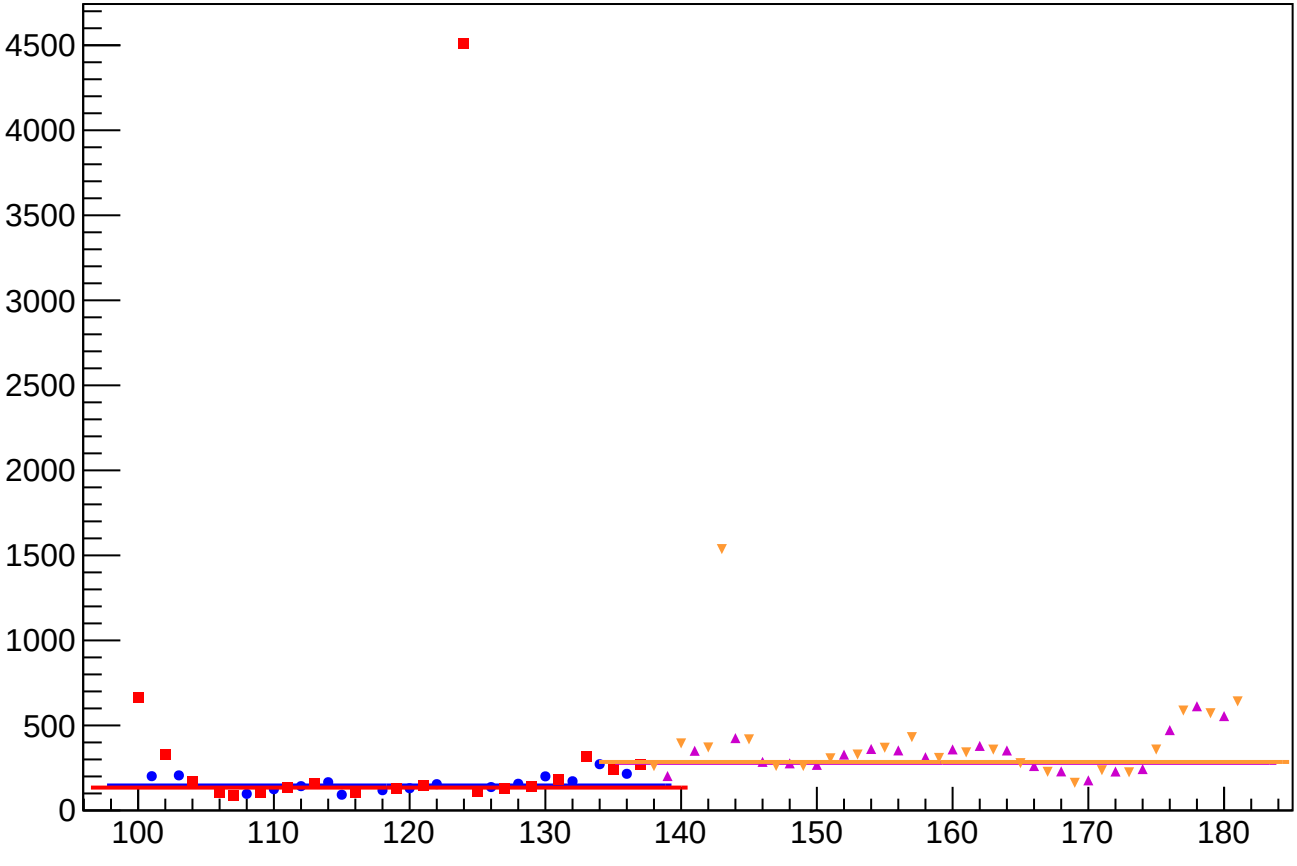
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442266.0/22

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 279.868+/-0.050 $\chi^2$/NDF:2781571.7/20

Left: 282.499+/-0.036 $\chi^2$/NDF: 7229341.0/43

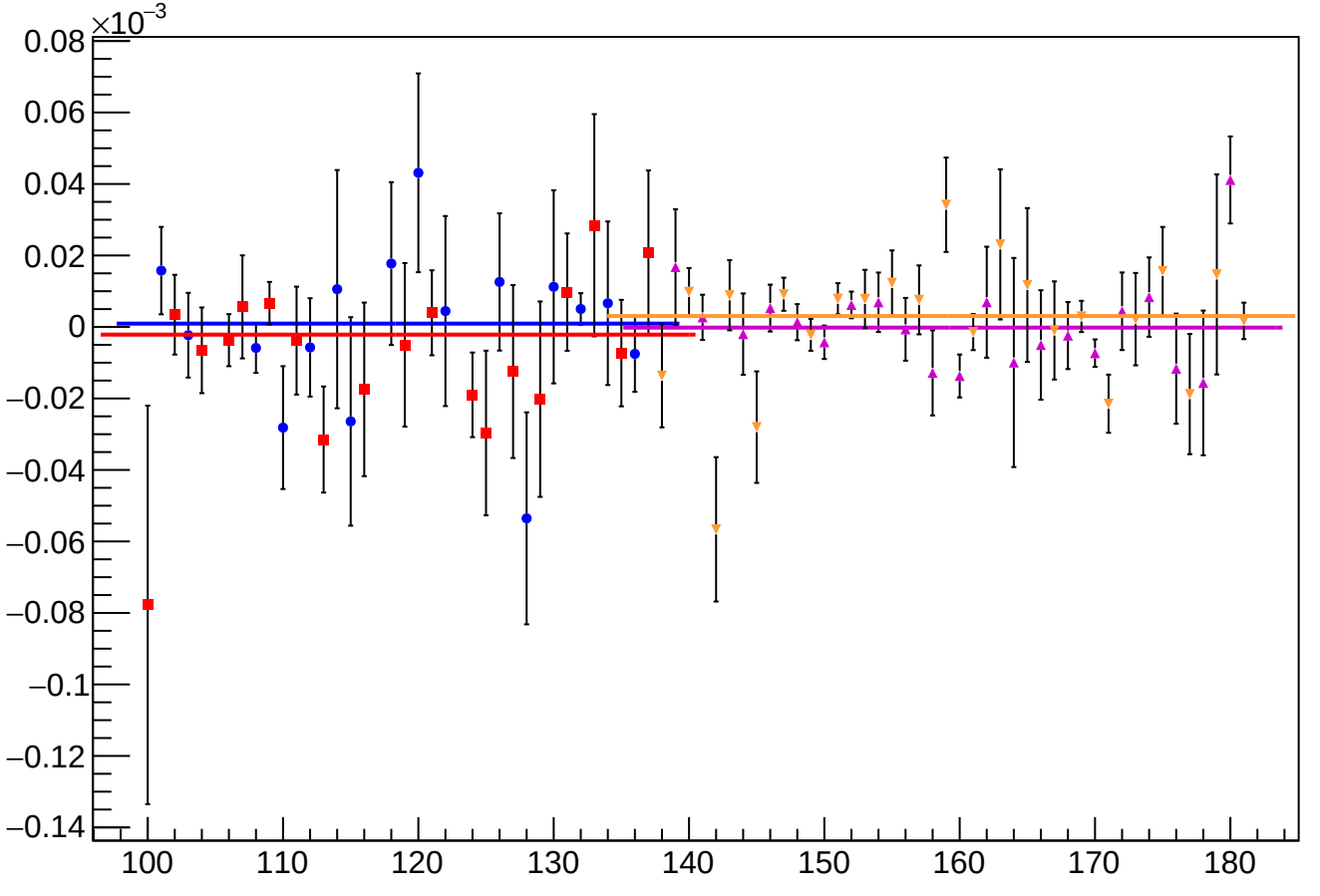
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985407.1/36

Out: 189.624+/-0.031 $\chi^2$/NDF:11584381.2/41

All: 194.399+/-0.022 $\chi^2$/NDF: 19619100.6/78

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:41.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:30.1/20

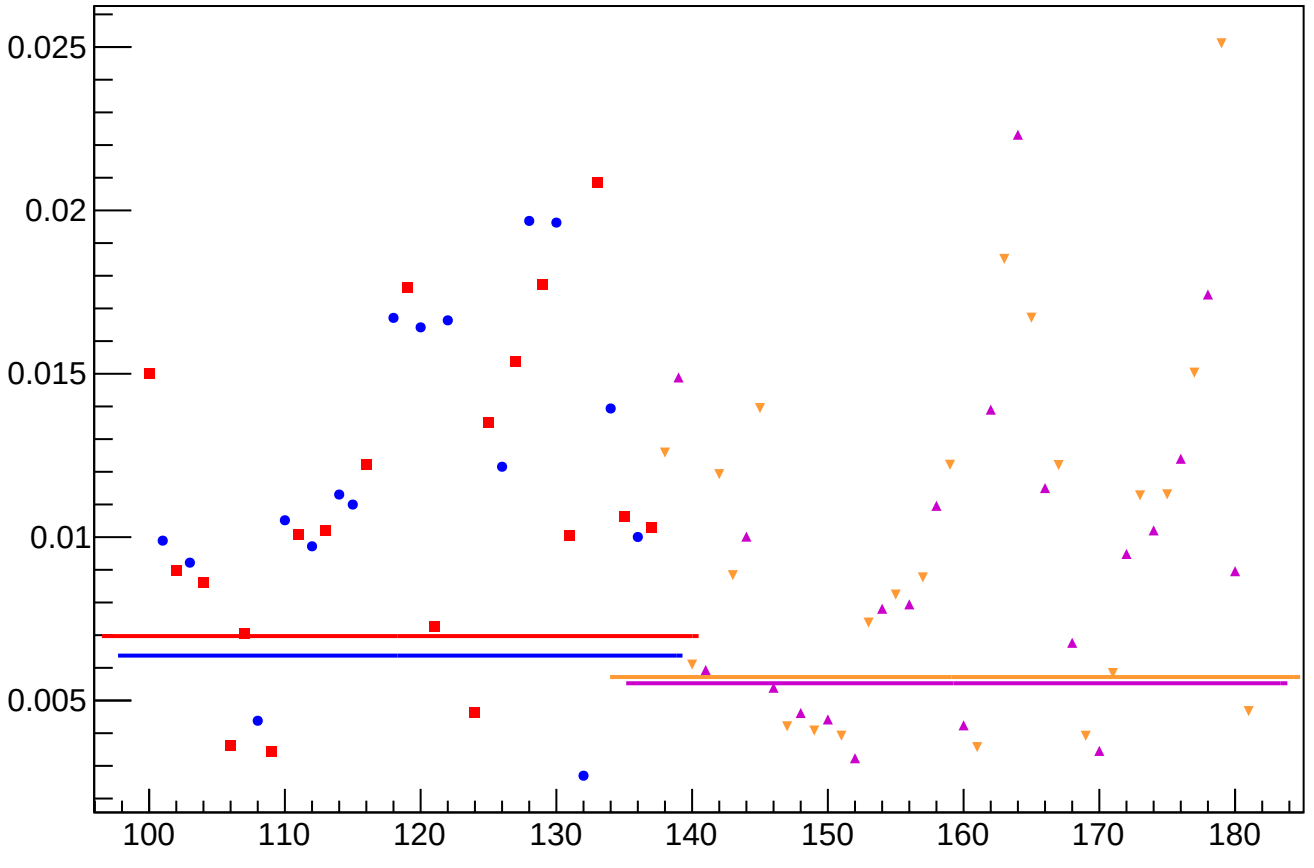
Left: 0.000+/-0.000 $\chi^2$/NDF: 73.1/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:45.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:59.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 105.3/78




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:7997784.9/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:6756812.9/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 14769249.6/43

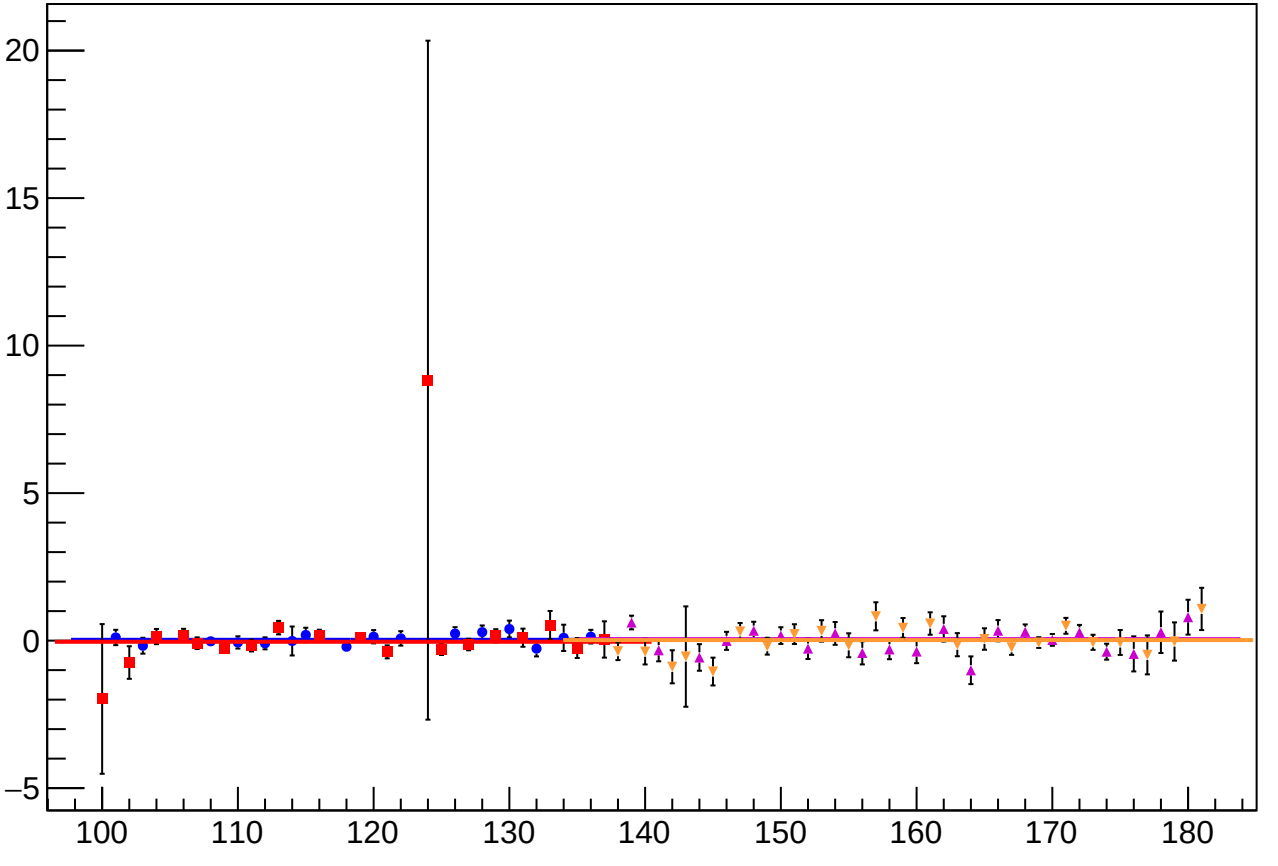
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.006+/-0.000 $\chi^2$/NDF:11525805.5/36

Out: 0.006+/-0.000 $\chi^2$/NDF:11680246.7/41

All: 0.006+/-0.000 $\chi^2$/NDF: 23242029.5/78

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

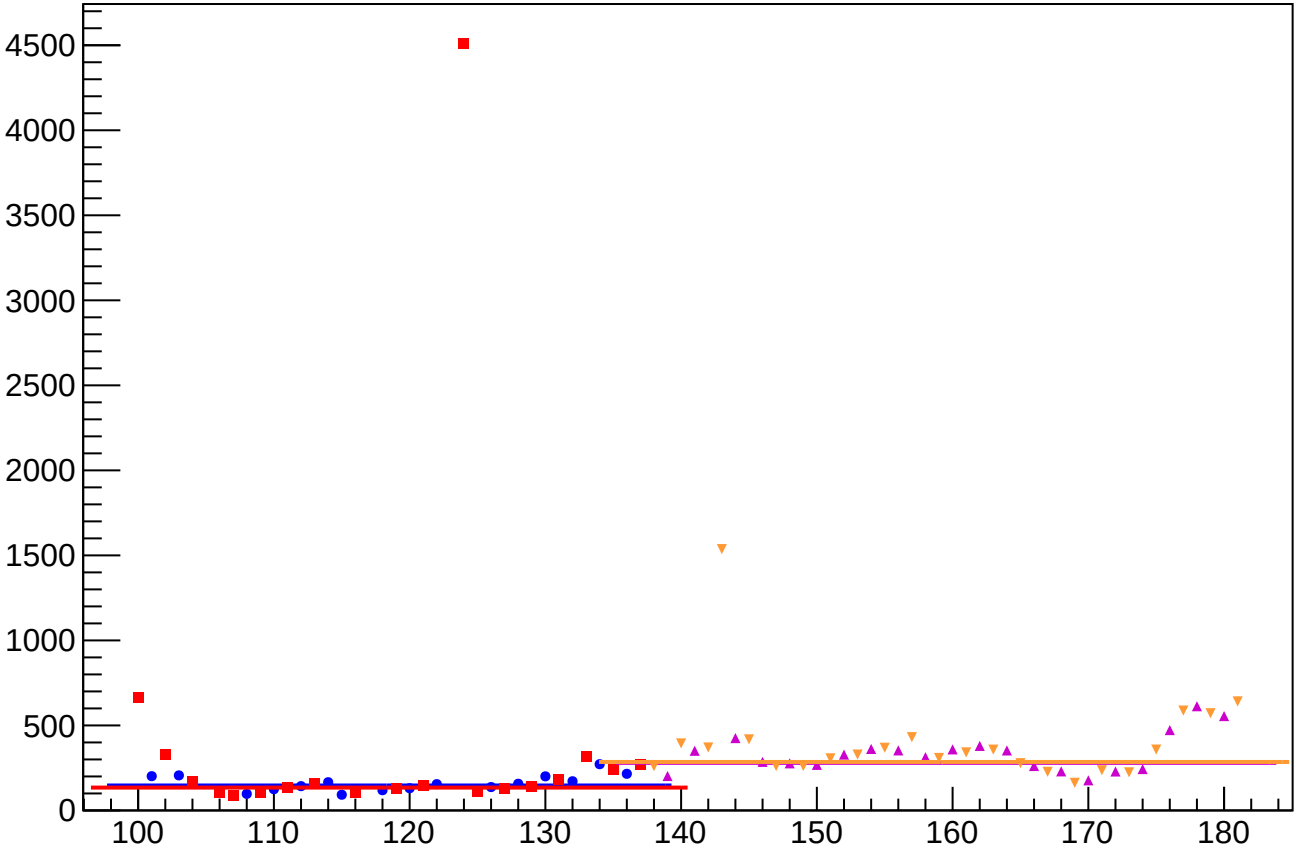
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442450.0/22

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 279.870+/-0.050 $\chi^2$/NDF:2781676.9/20

Left: 282.500+/-0.036 $\chi^2$/NDF: 7229627.2/43

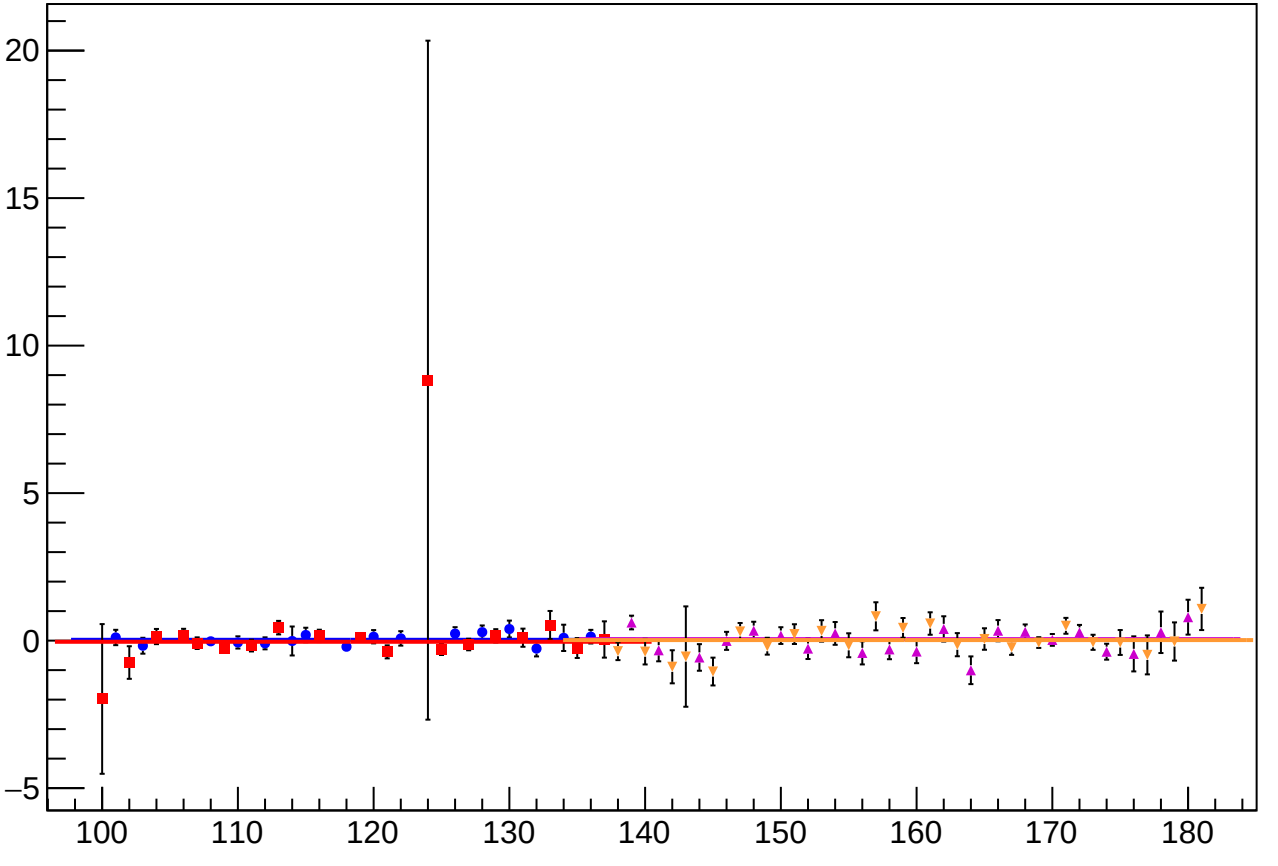
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985522.4/36

Out: 189.625+/-0.031 $\chi^2$/NDF:11584355.6/41

All: 194.400+/-0.022 $\chi^2$/NDF: 19619178.9/78

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

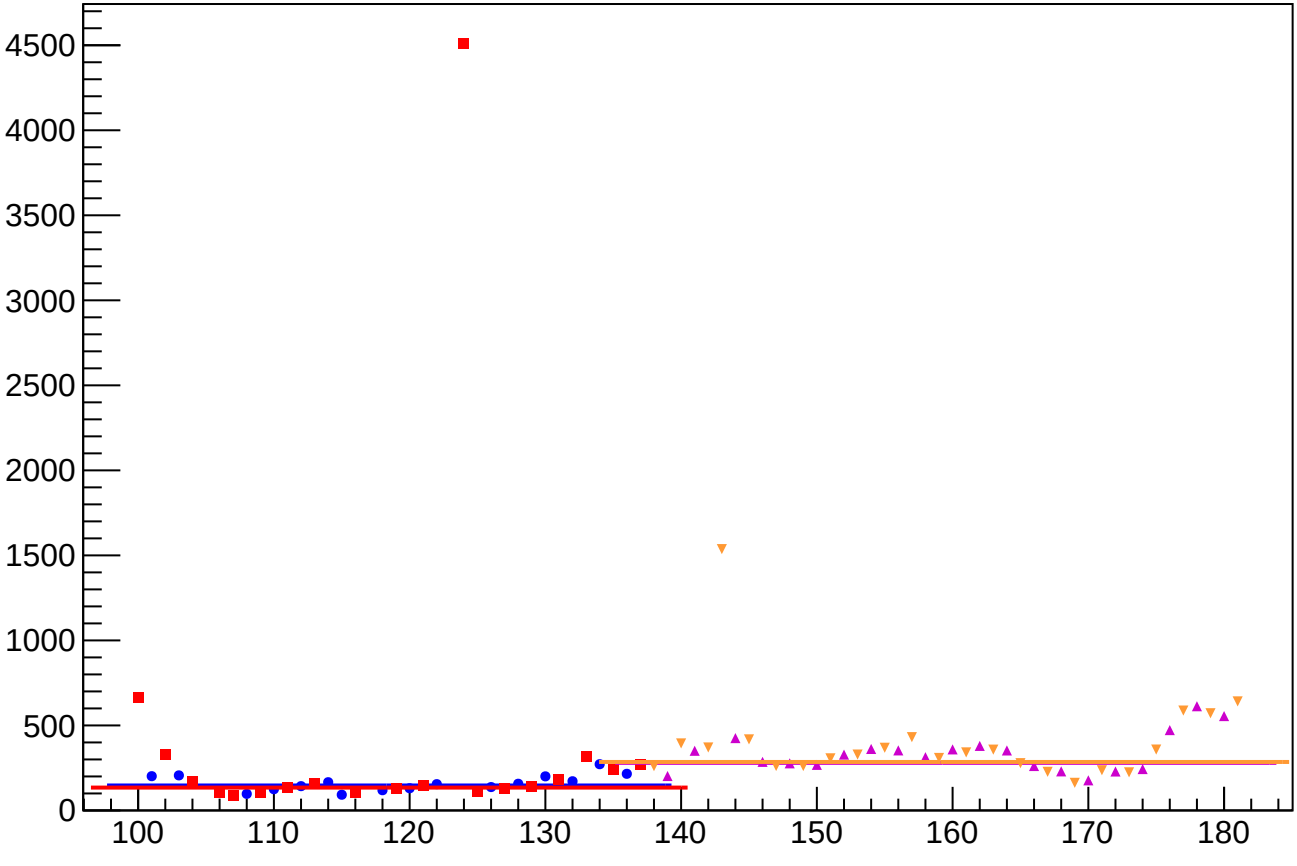
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442450.0/22

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 279.870+/-0.050 $\chi^2$/NDF:2781676.9/20

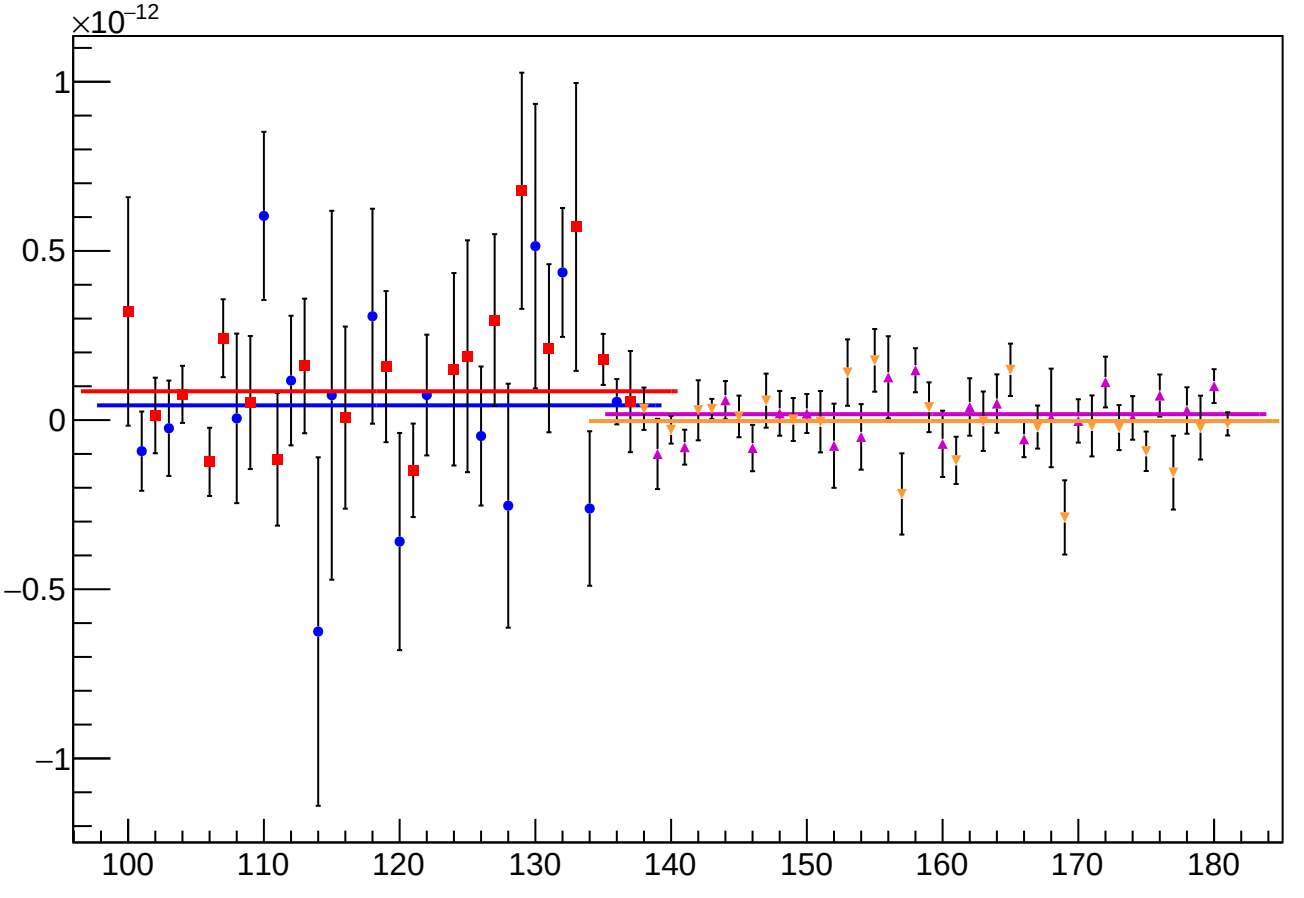
Left: 282.500+/-0.036 $\chi^2$/NDF: 7229627.2/43

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985522.4/36

Out: 189.625+/-0.031 $\chi^2$/NDF:11584355.6/41

All: 194.400+/-0.022 $\chi^2$/NDF: 19619178.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:30.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.6/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 52.9/43

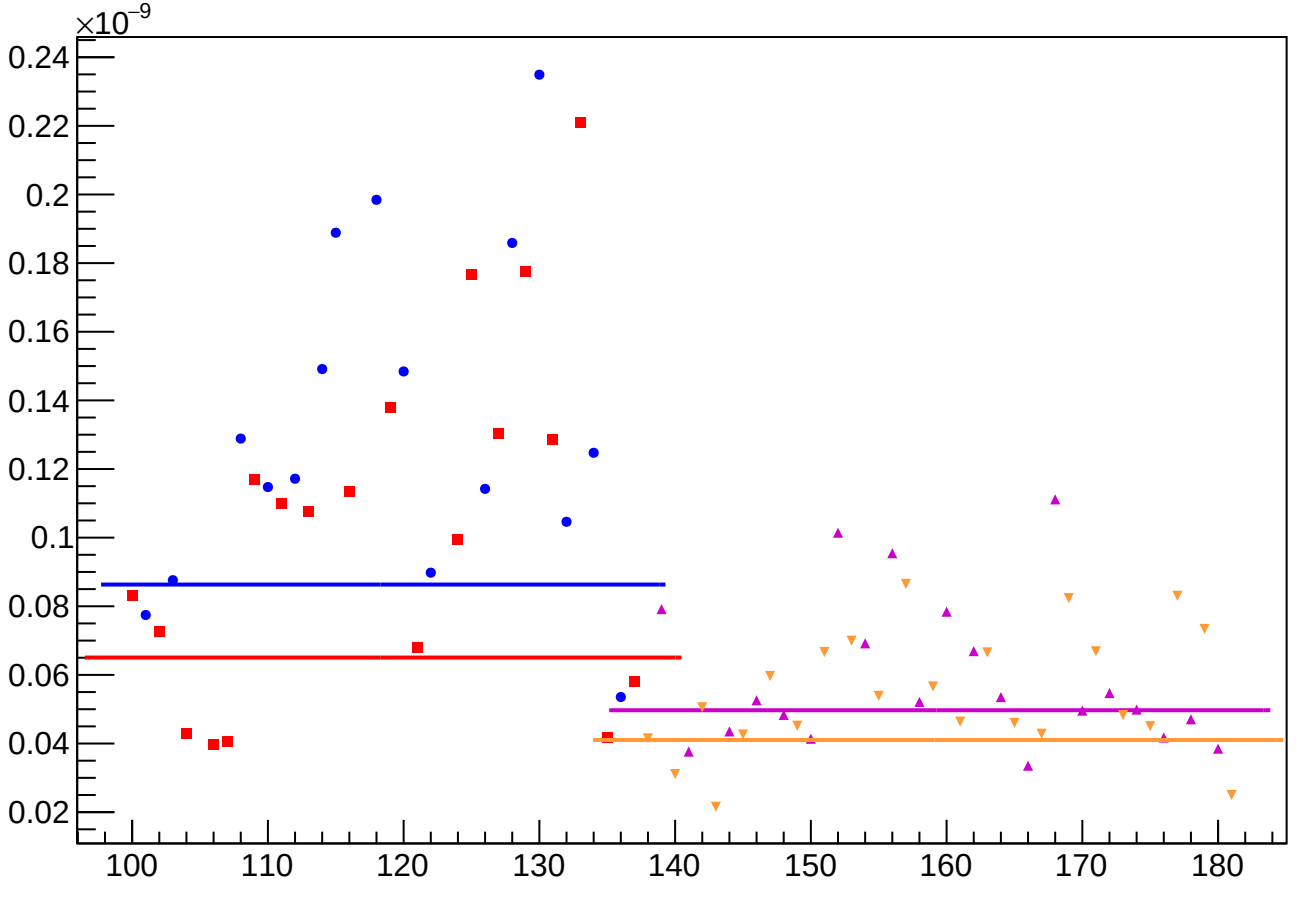
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:40.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:54.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 95.6/78

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1565662.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3512442.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2158861.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1999591.8/20

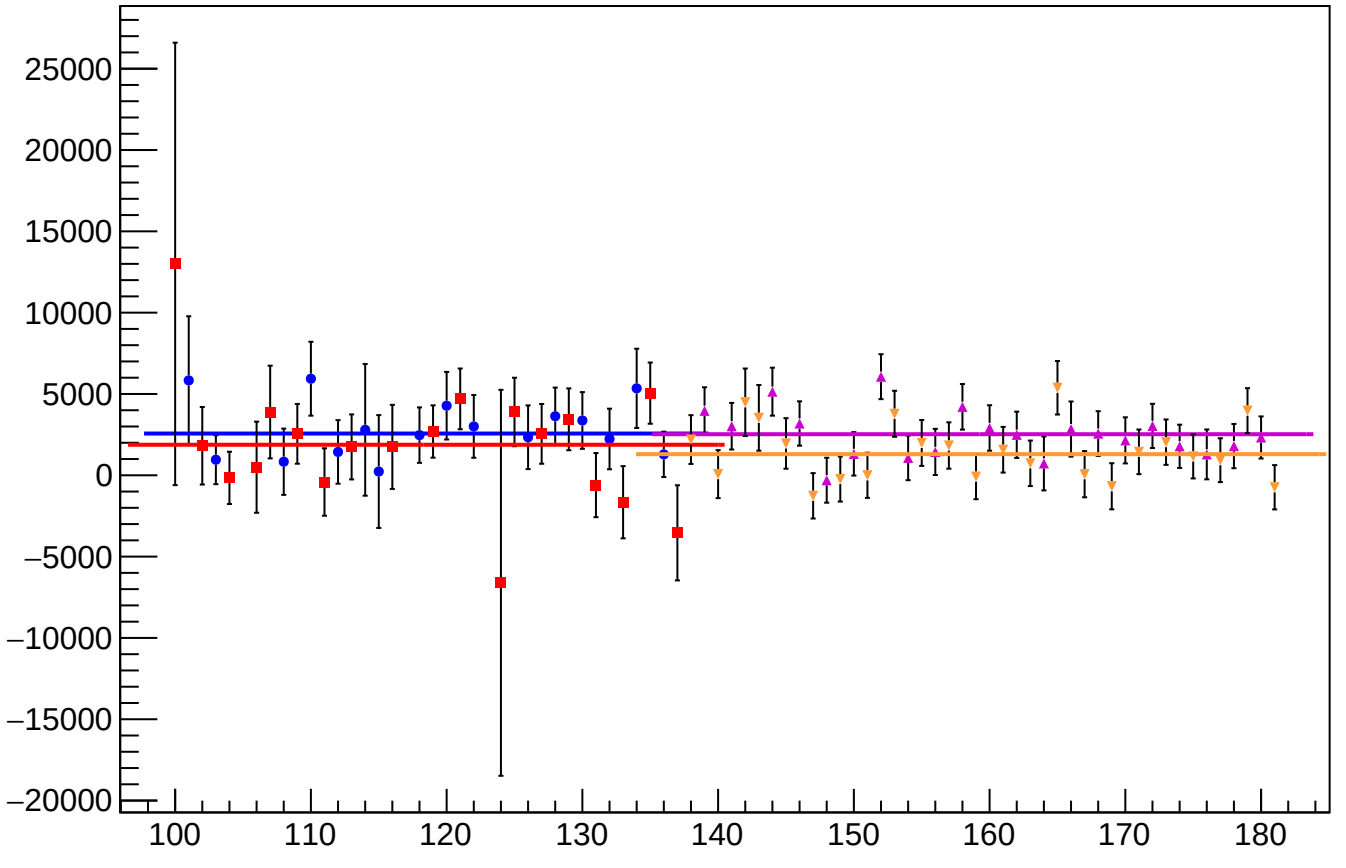
Left: 0.000+/-0.000 $\chi^2$/NDF: 5887861.0/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 4026528.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:4868574.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6532358.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11941020.3/78




Right In: 2567.460+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 1298.484+/-302.235 $\chi^2$/NDF:30.2/22

Right Out: 1878.030+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 2525.633+/-308.294 $\chi^2$/NDF:22.0/20

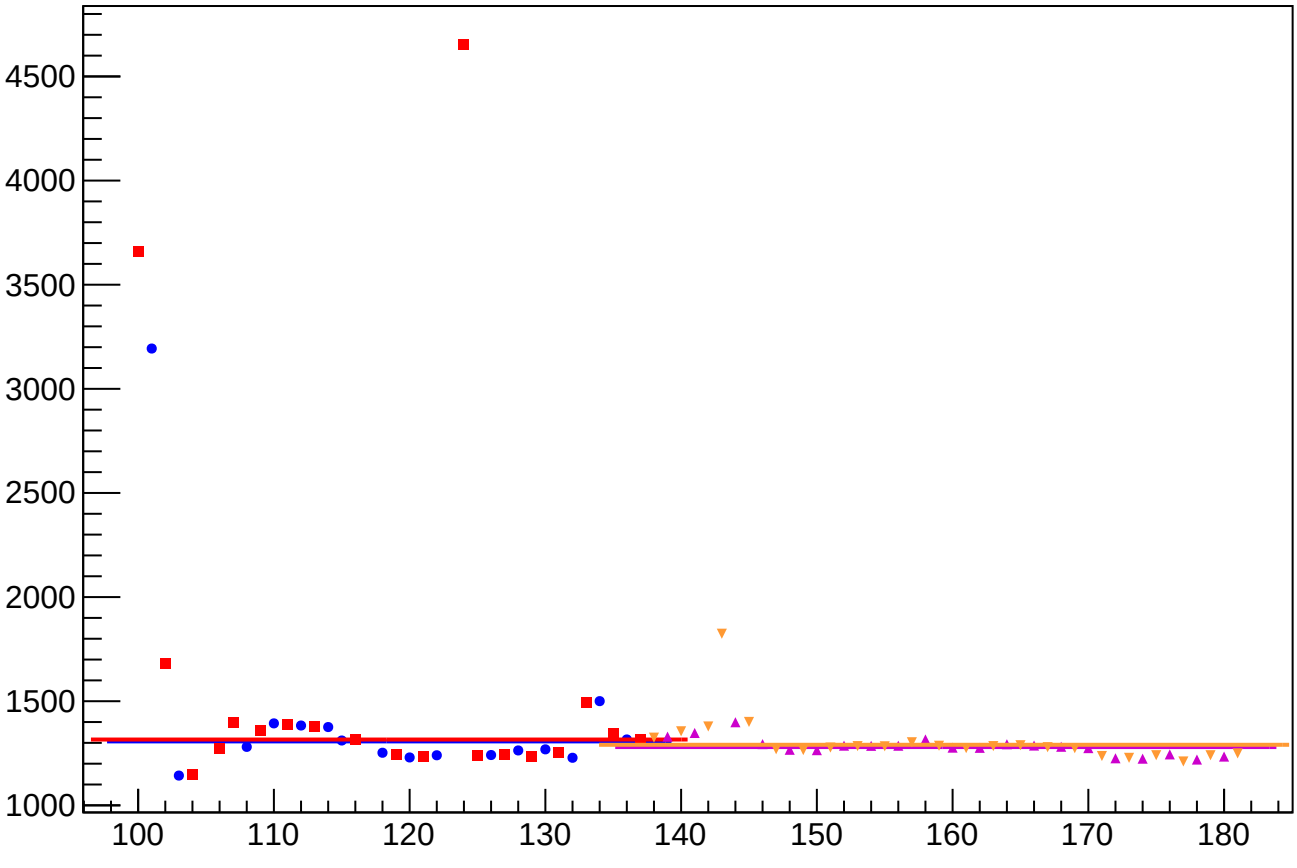
Left: 1899.879+/-215.823 $\chi^2$/NDF: 60.2/43

Right: 2222.296+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2537.311+/-261.743 $\chi^2$/NDF:31.0/36

Out: 1455.997+/-257.913 $\chi^2$/NDF:50.7/41

All: 1988.684+/-183.711 $\chi^2$/NDF: 90.4/78




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516249.0/15

Left Out: 1290.753+/-0.214 $\chi^2$/NDF:181696.5/22

Right Out: 1315.999+/-0.349 $\chi^2$/NDF: 326420.0/18

Left In: 1279.882+/-0.218 $\chi^2$/NDF:36374.1/20

Left: 1285.425+/-0.153 $\chi^2$/NDF: 219338.9/43

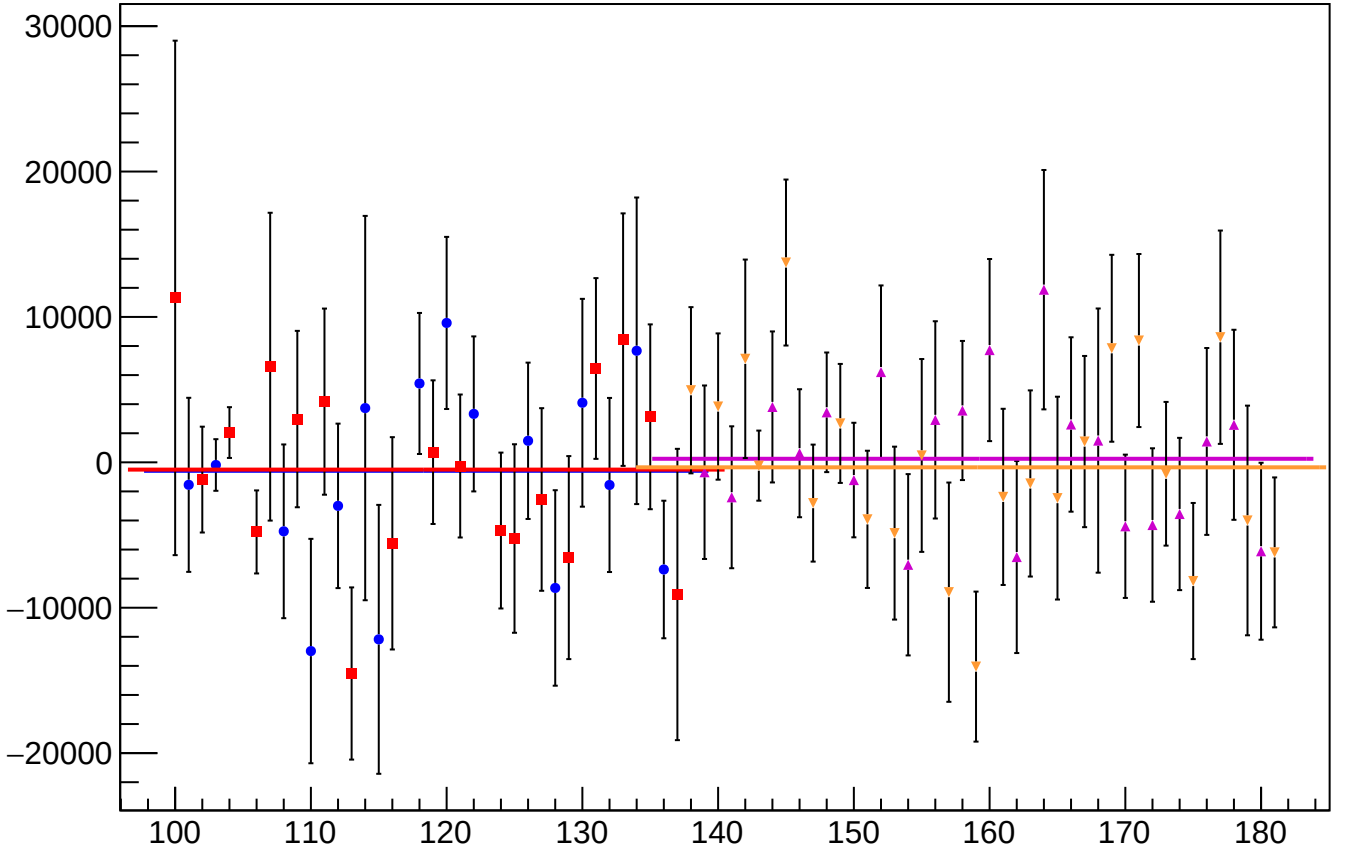
Right: 1311.551+/-0.247 $\chi^2$/NDF: 842995.4/34

In: 1287.472+/-0.185 $\chi^2$/NDF:556965.3/36

Out: 1297.642+/-0.182 $\chi^2$/NDF:511924.0/41

All: 1292.636+/-0.130 $\chi^2$/NDF: 1070422.4/78

asym_atl_avg_atr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -581.790+/-1192.862 $\chi^2$/NDF: 14.7/15

Left Out: -343.590+/-1073.195 $\chi^2$/NDF:28.5/22

Right Out: -500.098+/-1055.434 $\chi^2$/NDF: 17.7/18

Left In: 244.121+/-1201.349 $\chi^2$/NDF:12.6/20

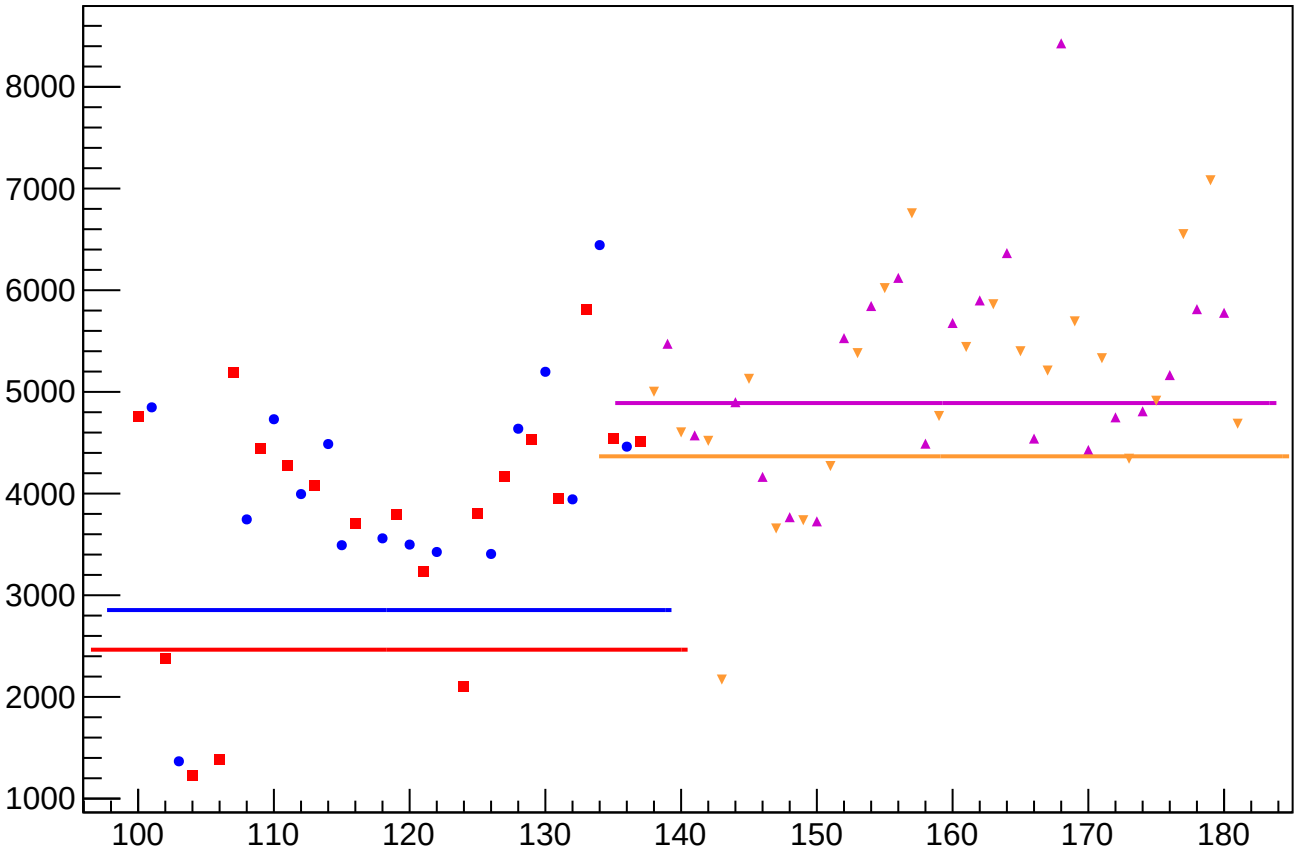
Left: -82.743+/-800.351 $\chi^2$/NDF: 41.2/43

Right: -535.969+/-790.447 $\chi^2$/NDF: 32.4/34

In: -171.763+/-846.465 $\chi^2$/NDF:27.6/36

Out: -423.150+/-752.505 $\chi^2$/NDF:46.2/41

All: -312.178+/-562.399 $\chi^2$/NDF: 73.8/78




Right In: 2854.300+/-0.843 $\chi^2$/NDF: 2904822.2/15

Left Out: 4366.382+/-0.759 $\chi^2$/NDF:3067646.3/22

Right Out: 2464.593+/-0.746 $\chi^2$/NDF: 3355947.0/18

Left In: 4890.245+/-0.849 $\chi^2$/NDF:1113233.9/20

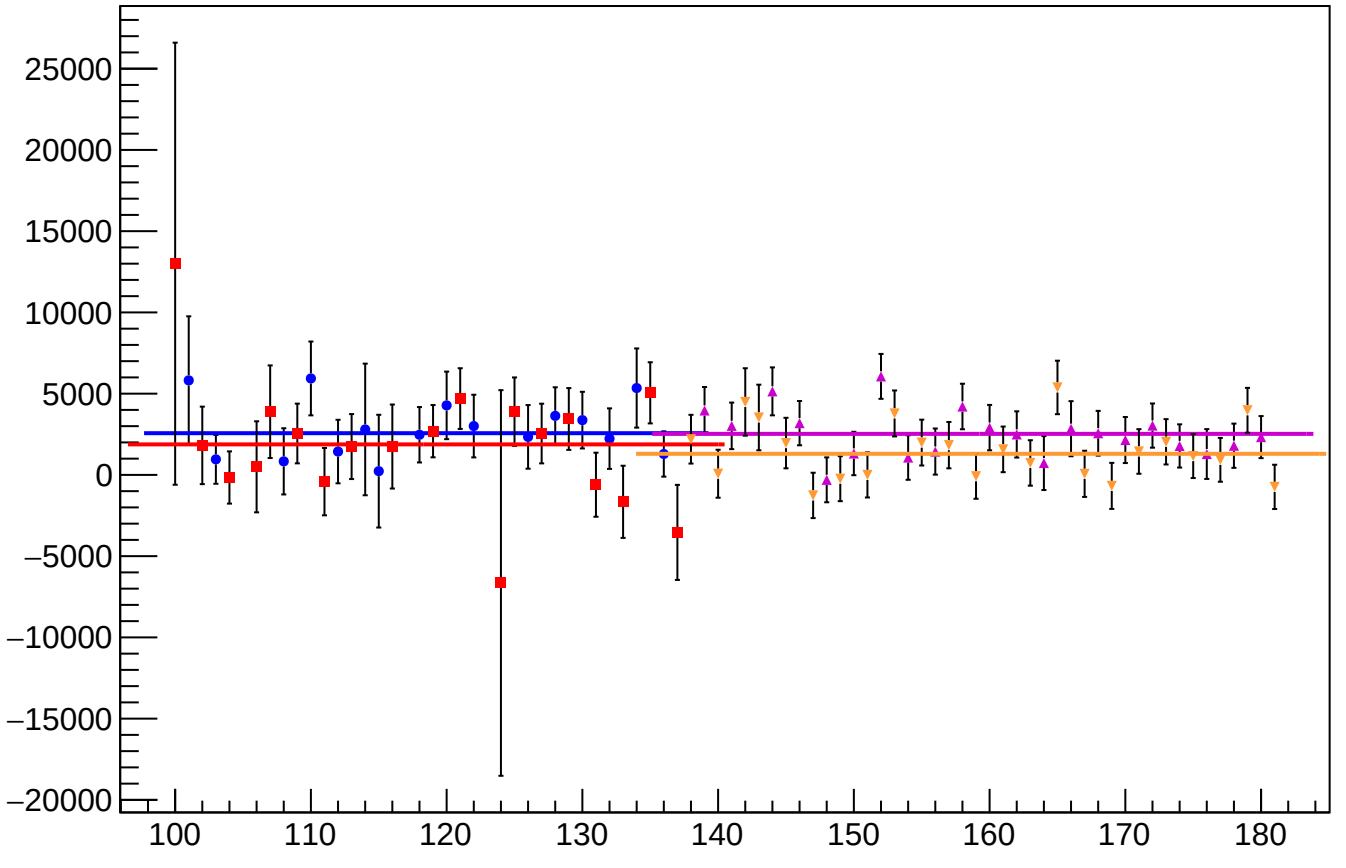
Left: 4598.891+/-0.566 $\chi^2$/NDF: 4392390.0/43

Right: 2635.714+/-0.559 $\chi^2$/NDF: 6380500.9/34

In: 3865.055+/-0.599 $\chi^2$/NDF:6910480.7/36

Out: 3399.620+/-0.532 $\chi^2$/NDF:9616267.4/41

All: 3605.082+/-0.398 $\chi^2$/NDF: 16864501.7/7




Right In: 2567.180+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 1298.417+/-302.235 $\chi^2$/NDF:30.2/22

Right Out: 1877.774+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 2525.633+/-308.294 $\chi^2$/NDF:22.0/20

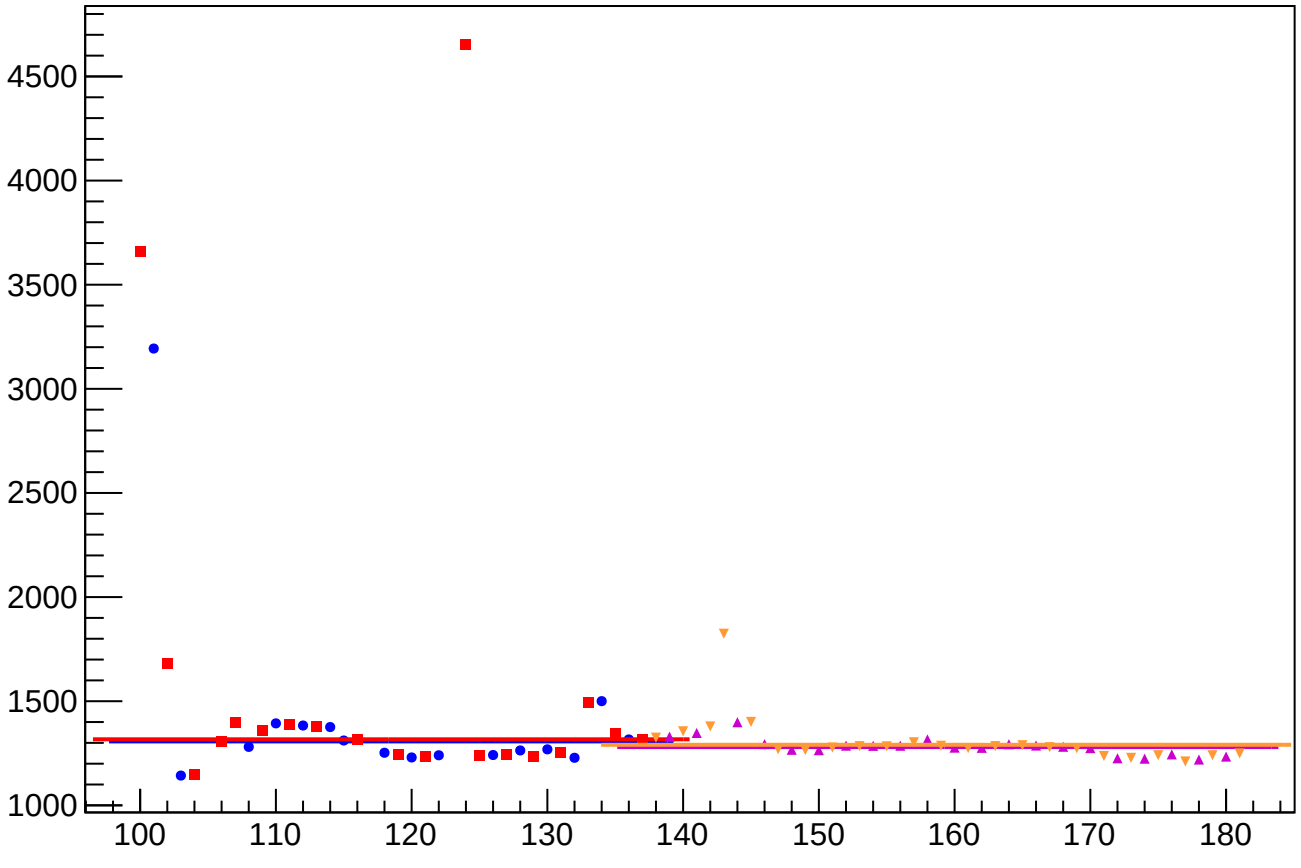
Left: 1899.845+/-215.823 $\chi^2$/NDF: 60.2/43

Right: 2222.028+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2537.233+/-261.743 $\chi^2$/NDF:31.0/36

Out: 1455.878+/-257.913 $\chi^2$/NDF:50.7/41

All: 1988.585+/-183.711 $\chi^2$/NDF: 90.4/78




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516250.6/15

Left Out: 1290.753+/-0.214 $\chi^2$/NDF:181696.5/22

Right Out: 1317.128+/-0.349 $\chi^2$/NDF: 325926.8/18

Left In: 1279.882+/-0.218 $\chi^2$/NDF:36374.1/20

Left: 1285.426+/-0.153 $\chi^2$/NDF: 219338.9/43

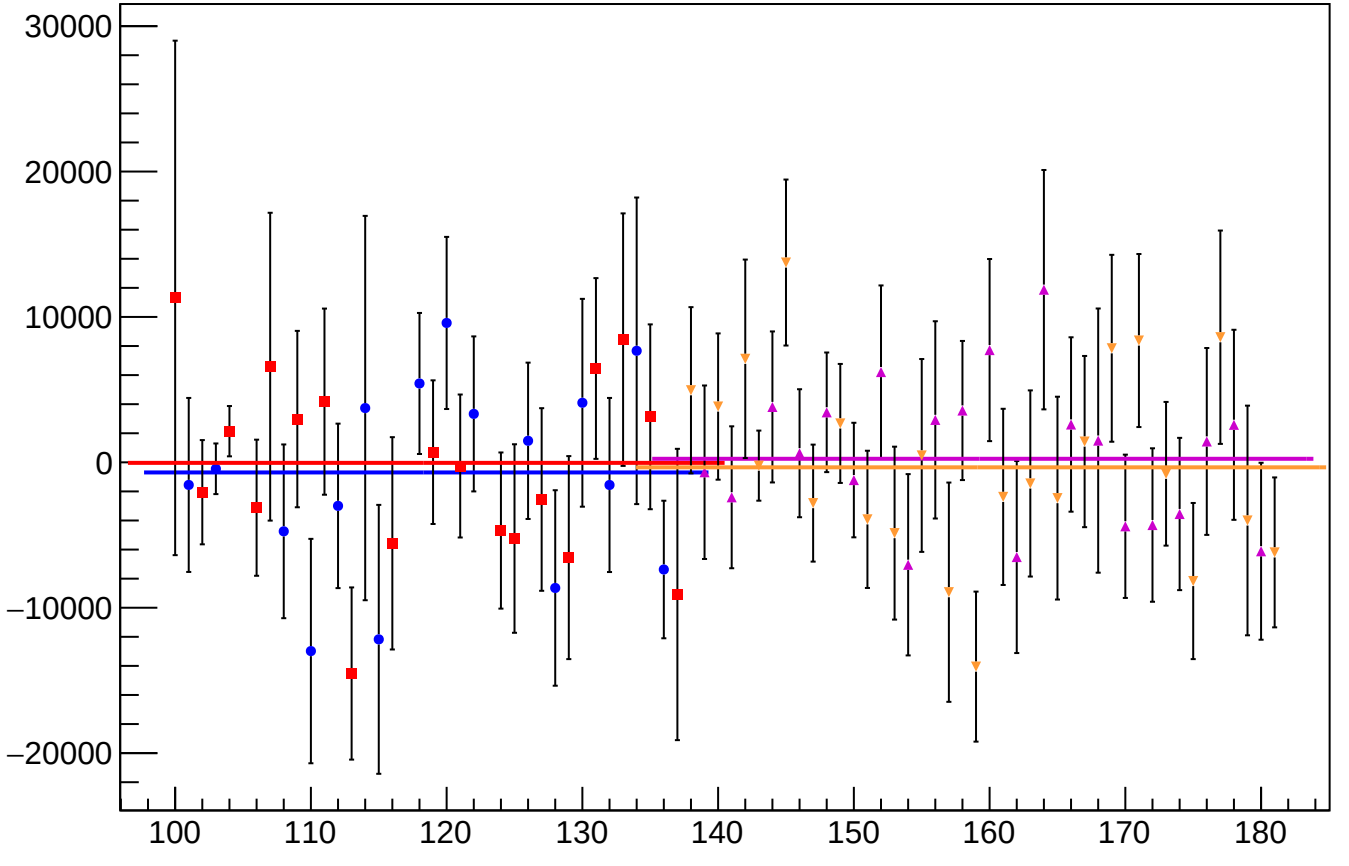
Right: 1312.114+/-0.247 $\chi^2$/NDF: 842591.1/34

In: 1287.472+/-0.185 $\chi^2$/NDF:556966.8/36

Out: 1297.942+/-0.182 $\chi^2$/NDF:511774.2/41

All: 1292.787+/-0.130 $\chi^2$/NDF: 1070365.4/78

asym_atl_avg_atr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -695.249+/-1182.433 $\chi^2$/NDF: 14.7/15

Left Out: -343.594+/-1073.192 $\chi^2$/NDF:28.5/22

Right Out: -36.115+/-1098.207 $\chi^2$/NDF: 15.9/18

Left In: 244.169+/-1201.349 $\chi^2$/NDF:12.6/20

Left: -82.725+/-800.349 $\chi^2$/NDF: 41.2/43

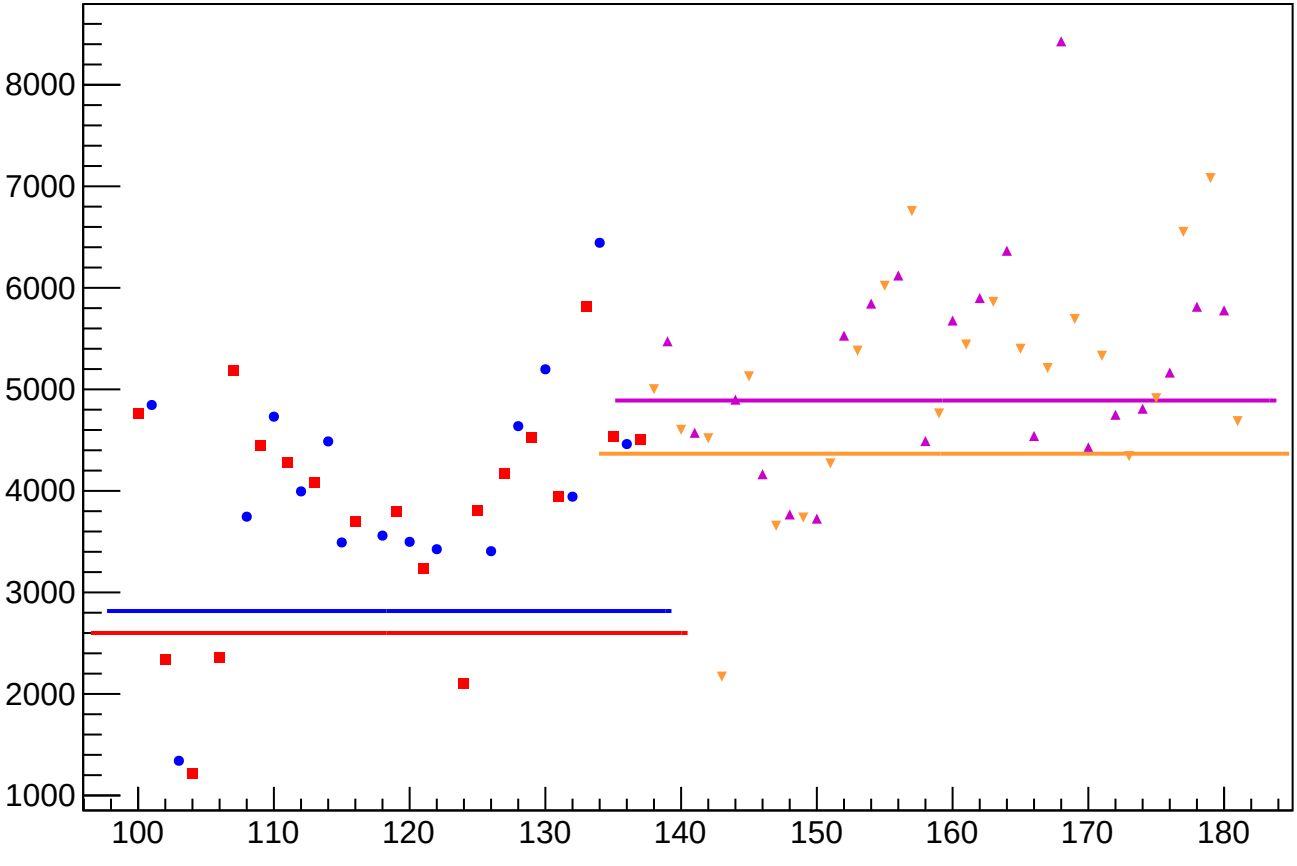
Right: -341.373+/-804.680 $\chi^2$/NDF: 30.8/34

In: -232.995+/-842.715 $\chi^2$/NDF:27.6/36

Out: -193.396+/-767.553 $\chi^2$/NDF:44.5/41

All: -211.351+/-567.457 $\chi^2$/NDF: 72.1/78

asym_atl_avg_atr_avg_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 2816.784+/-0.836 $\chi^2$/NDF: 3007570.0/15

Left Out: 4366.364+/-0.759 $\chi^2$/NDF:3067740.3/22

Right Out: 2600.524+/-0.777 $\chi^2$/NDF: 3080771.9/18

Left In: 4890.244+/-0.849 $\chi^2$/NDF:1113240.7/20

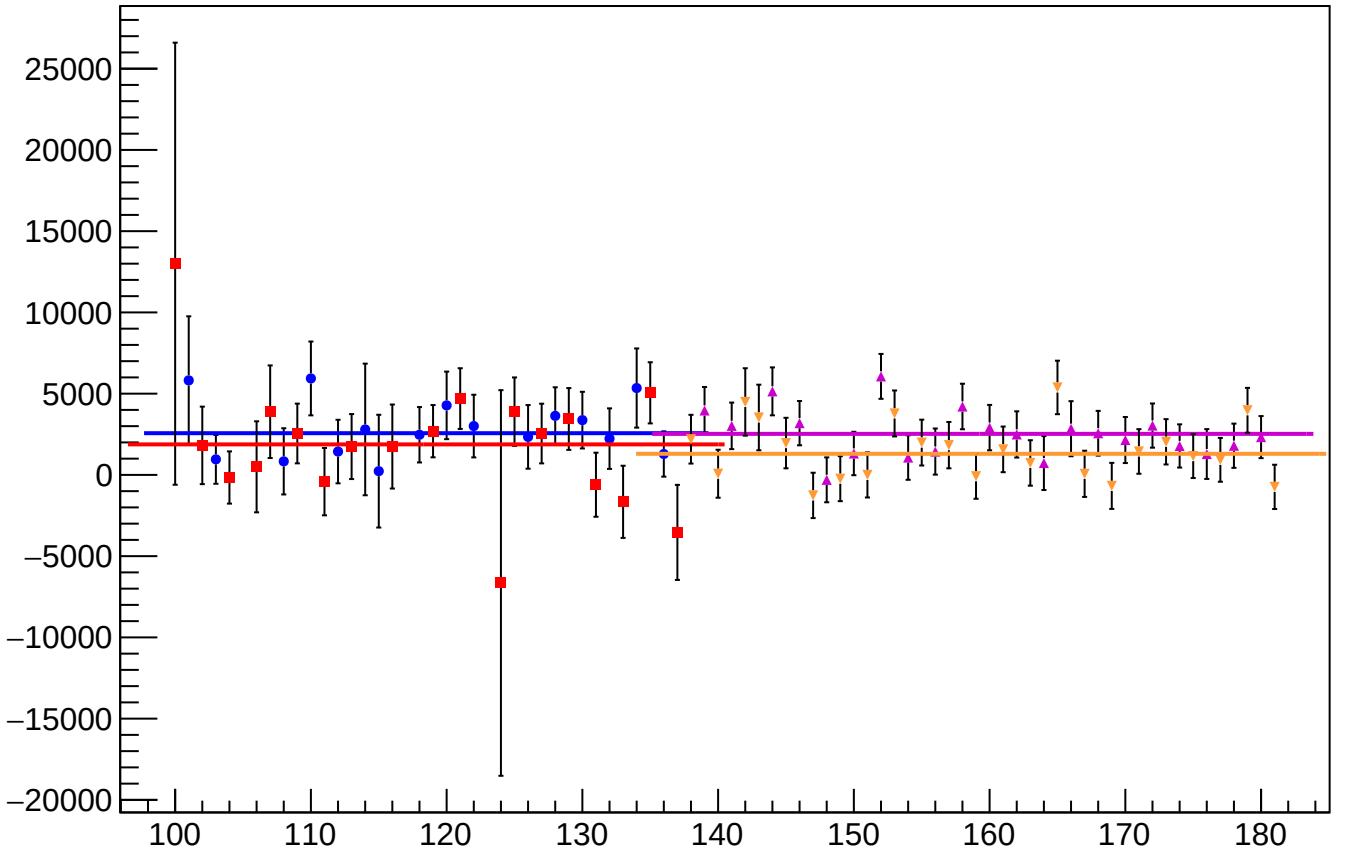
Left: 4598.880+/-0.566 $\chi^2$/NDF: 4392505.6/43

Right: 2700.678+/-0.569 $\chi^2$/NDF: 6124259.3/34

In: 3837.061+/-0.596 $\chi^2$/NDF:7146966.4/36

Out: 3503.784+/-0.543 $\chi^2$/NDF:8793511.9/41

All: 3654.900+/-0.401 $\chi^2$/NDF: 16111452.4/7




Right In: 2567.180+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 1298.417+/-302.235 $\chi^2$/NDF:30.2/22

Right Out: 1877.774+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 2525.633+/-308.294 $\chi^2$/NDF:22.0/20

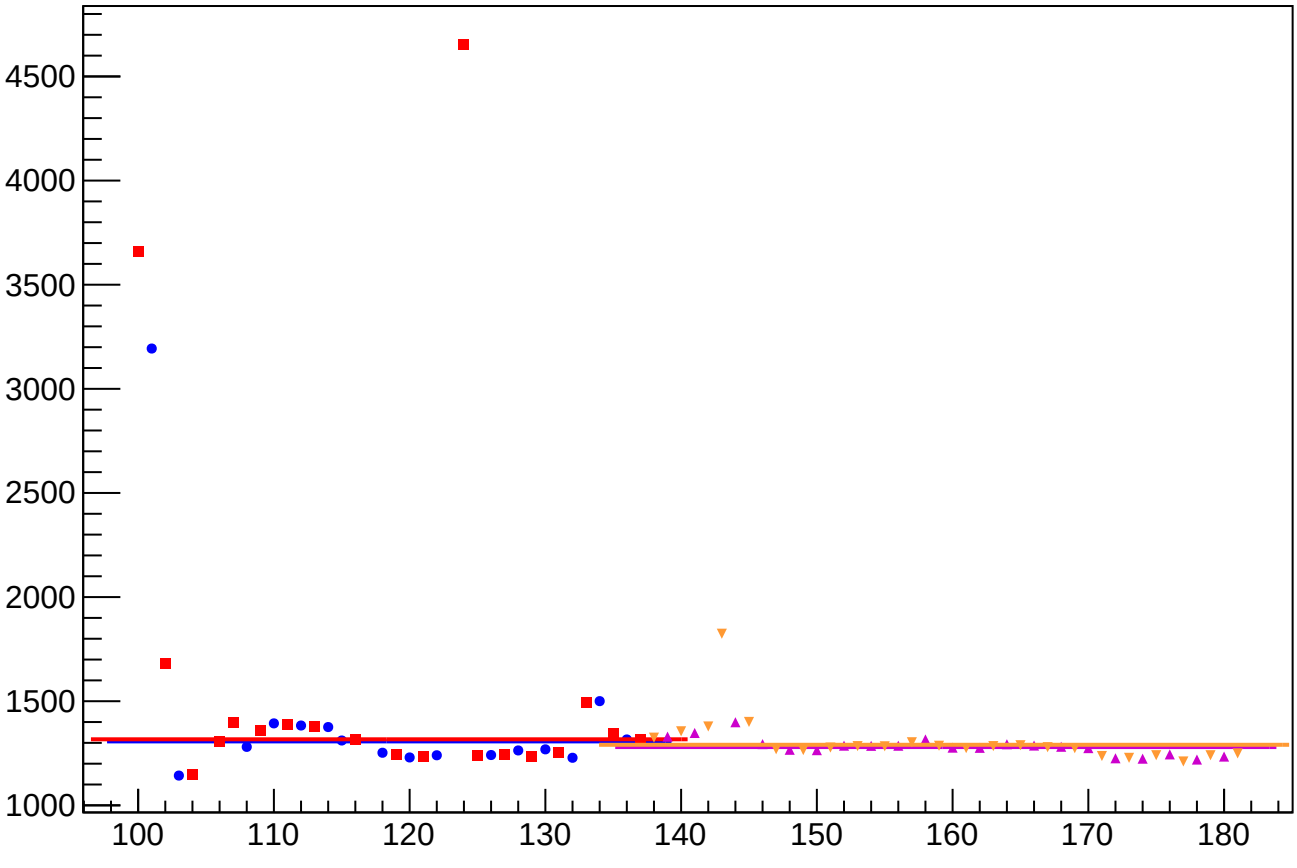
Left: 1899.845+/-215.823 $\chi^2$/NDF: 60.2/43

Right: 2222.028+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2537.233+/-261.743 $\chi^2$/NDF:31.0/36

Out: 1455.878+/-257.913 $\chi^2$/NDF:50.7/41

All: 1988.585+/-183.711 $\chi^2$/NDF: 90.4/78




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516250.6/15

Left Out: 1290.753+/-0.214 $\chi^2$/NDF:181696.5/22

Right Out: 1317.128+/-0.349 $\chi^2$/NDF: 325926.8/18

Left In: 1279.882+/-0.218 $\chi^2$/NDF:36374.1/20

Left: 1285.426+/-0.153 $\chi^2$/NDF: 219338.9/43

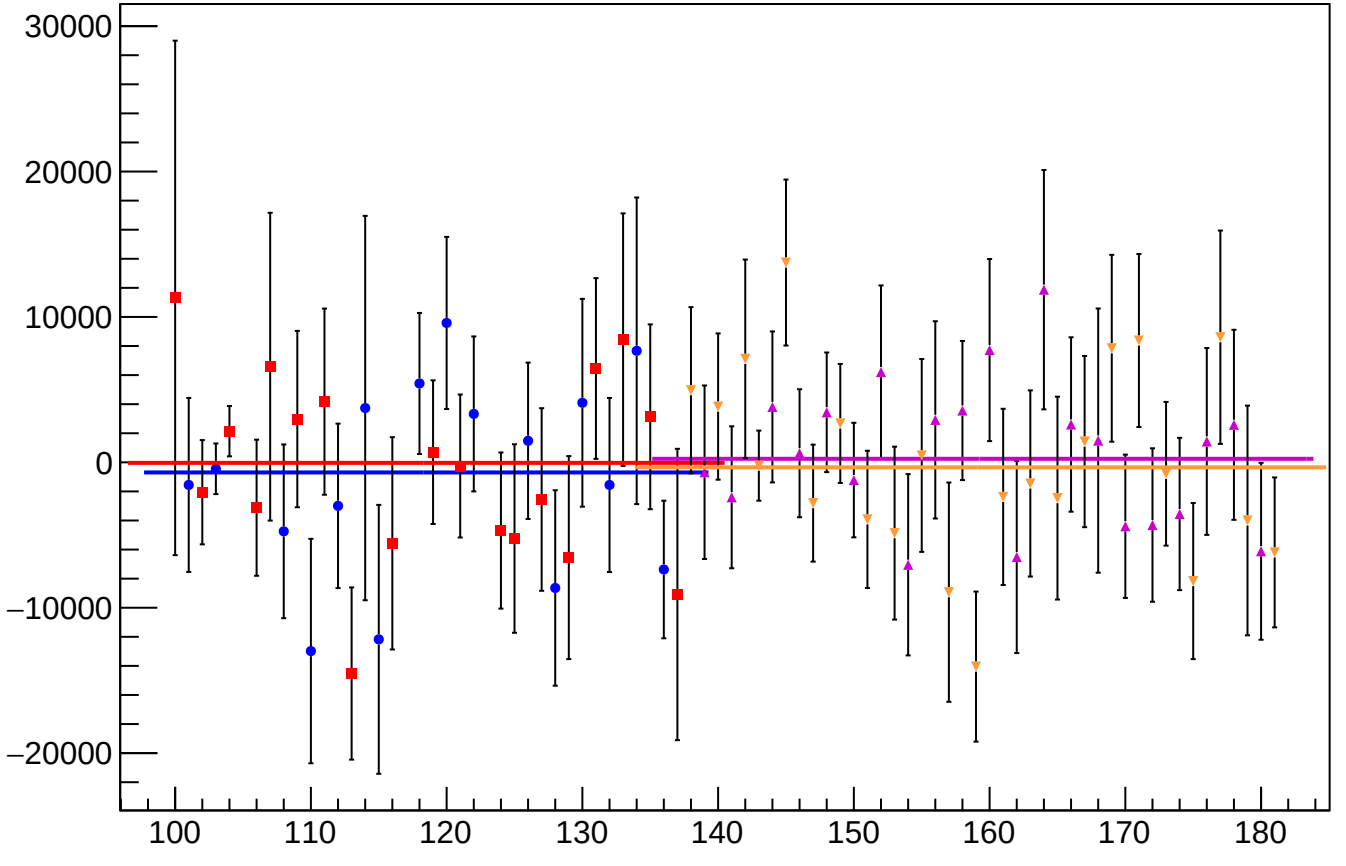
Right: 1312.114+/-0.247 $\chi^2$/NDF: 842591.1/34

In: 1287.472+/-0.185 $\chi^2$/NDF:556966.8/36

Out: 1297.942+/-0.182 $\chi^2$/NDF:511774.2/41

All: 1292.787+/-0.130 $\chi^2$/NDF: 1070365.4/78

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -695.249+/-1182.433 $\chi^2$/NDF: 14.7/15

Left Out: -343.594+/-1073.192 $\chi^2$/NDF:28.5/22

Right Out: -36.115+/-1098.207 $\chi^2$/NDF: 15.9/18

Left In: 244.169+/-1201.349 $\chi^2$/NDF:12.6/20

Left: -82.725+/-800.349 $\chi^2$/NDF: 41.2/43

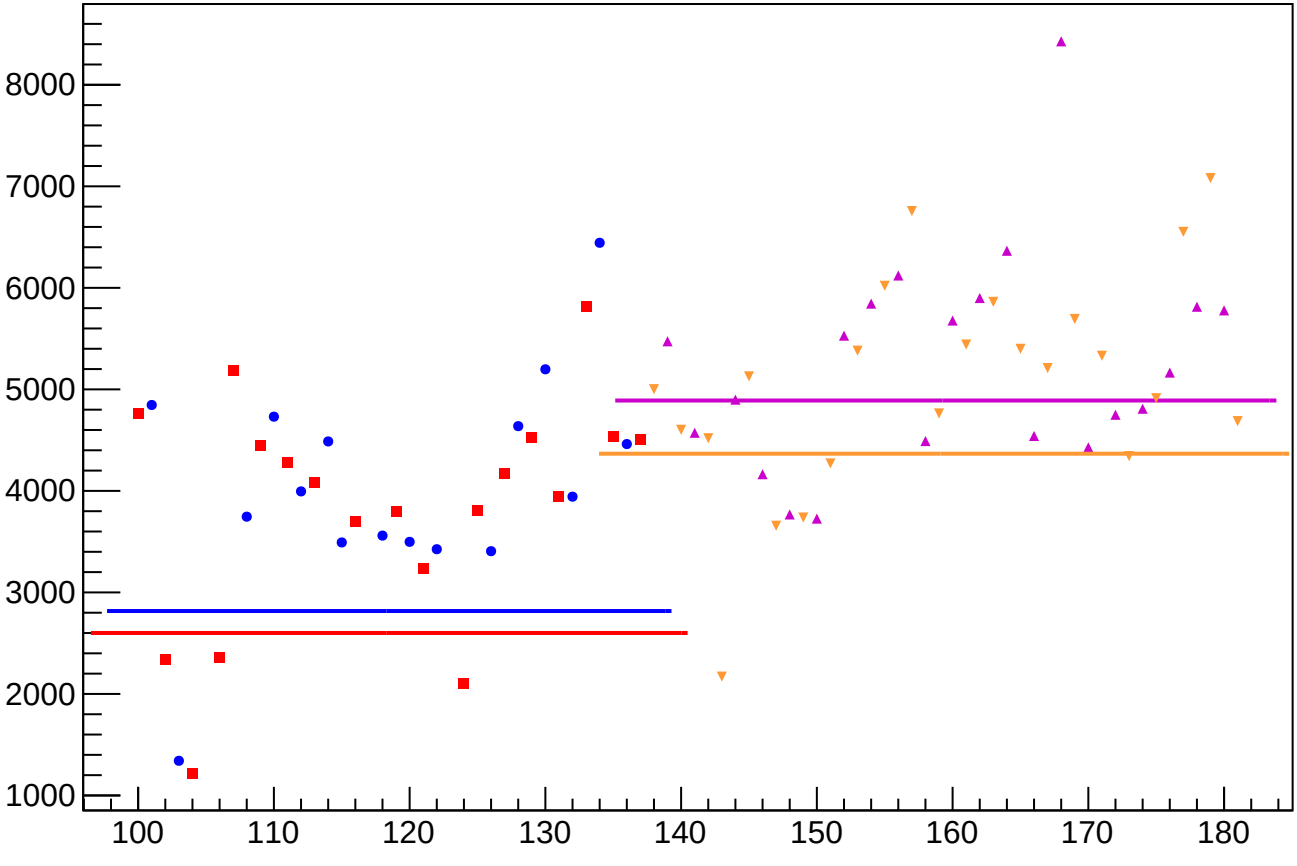
Right: -341.373+/-804.680 $\chi^2$/NDF: 30.8/34

In: -232.995+/-842.715 $\chi^2$/NDF:27.6/36

Out: -193.396+/-767.553 $\chi^2$/NDF:44.5/41

All: -211.351+/-567.457 $\chi^2$/NDF: 72.1/78

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 2816.784+/-0.836 $\chi^2$/NDF: 3007570.0/15

Left Out: 4366.364+/-0.759 $\chi^2$/NDF:3067740.3/22

Right Out: 2600.524+/-0.777 $\chi^2$/NDF: 3080771.9/18

Left In: 4890.244+/-0.849 $\chi^2$/NDF:1113240.7/20

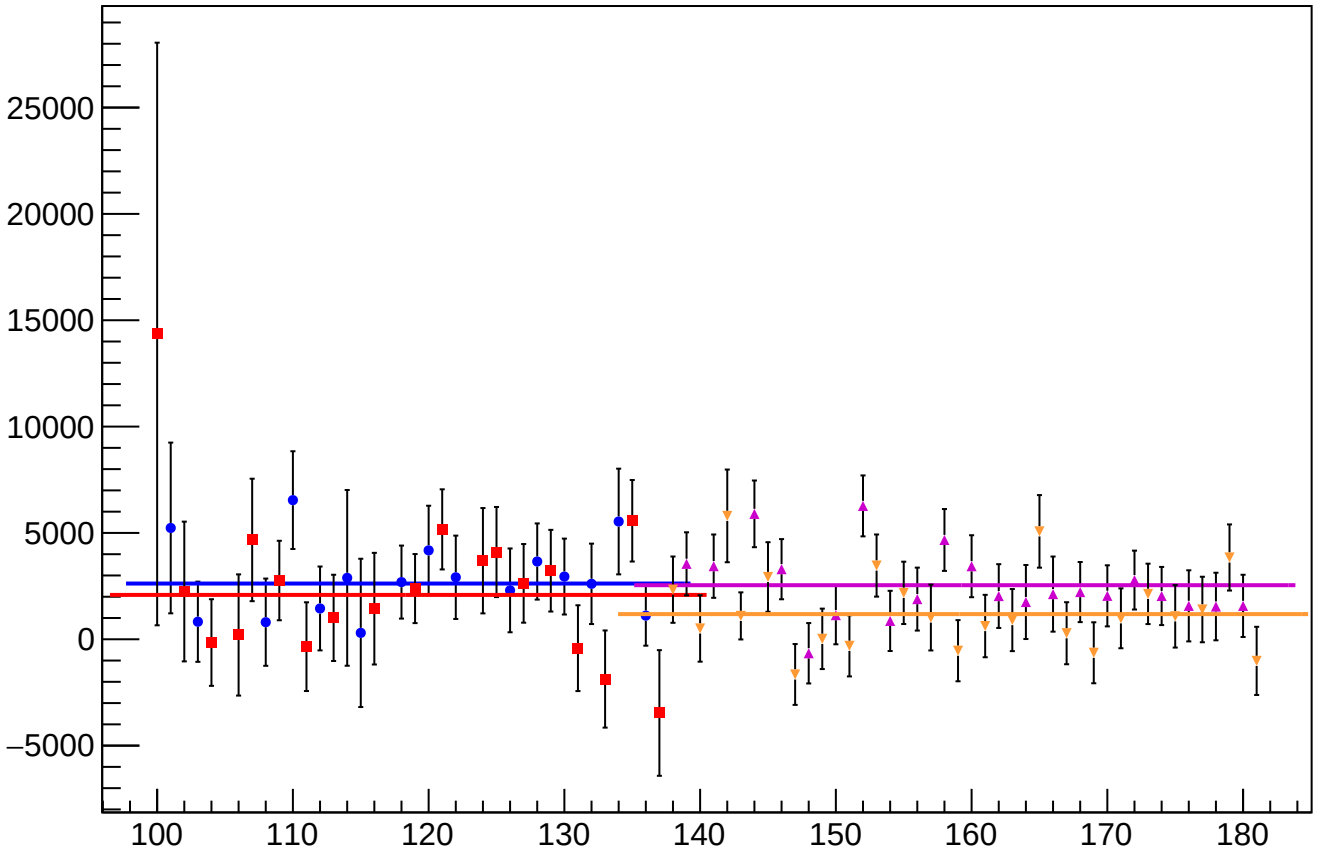
Left: 4598.880+/-0.566 $\chi^2$/NDF: 4392505.6/43

Right: 2700.678+/-0.569 $\chi^2$/NDF: 6124259.3/34

In: 3837.061+/-0.596 $\chi^2$/NDF:7146966.4/36

Out: 3503.784+/-0.543 $\chi^2$/NDF:8793511.9/41

All: 3654.900+/-0.401 $\chi^2$/NDF: 16111452.4/7




Right In: 2620.535+/-511.510 $\chi^2$/NDF: 9.3/15

Left Out: 1183.204+/-309.368 $\chi^2$/NDF:29.1/22

Right Out: 2085.606+/-504.873 $\chi^2$/NDF: 20.9/18

Left In: 2542.641+/-322.952 $\chi^2$/NDF:24.6/20

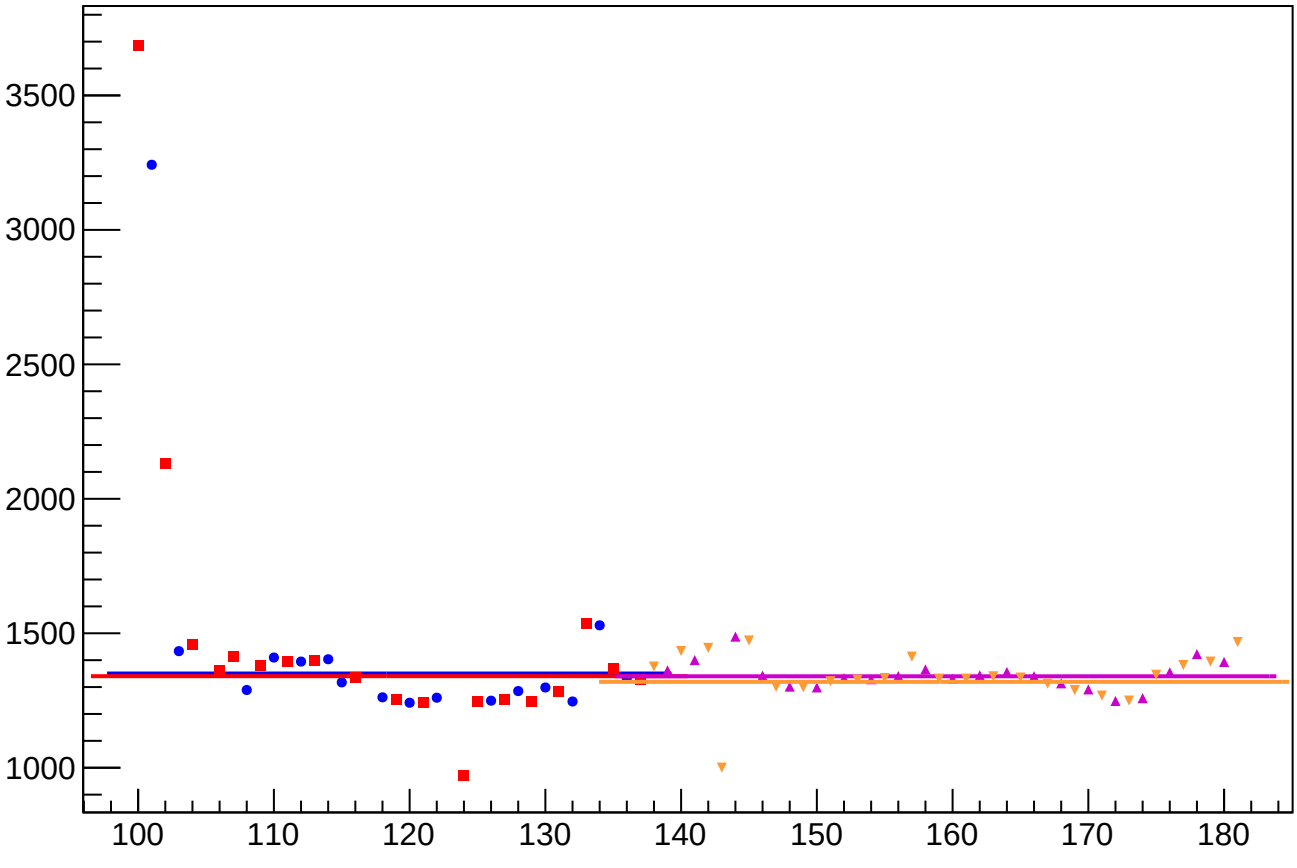
Left: 1833.732+/-223.404 $\chi^2$/NDF: 62.9/43

Right: 2349.577+/-359.323 $\chi^2$/NDF: 30.8/34

In: 2564.842+/-273.078 $\chi^2$/NDF:33.9/36

Out: 1429.543+/-263.784 $\chi^2$/NDF:52.4/41

All: 1977.544+/-189.724 $\chi^2$/NDF: 95.2/78




Right In: 1350.369+/-0.362 $\chi^2$/NDF: 494051.1/15

Left Out: 1319.482+/-0.219 $\chi^2$/NDF:247259.6/22

Right Out: 1340.429+/-0.357 $\chi^2$/NDF: 272183.5/18

Left In: 1340.038+/-0.228 $\chi^2$/NDF:52835.7/20

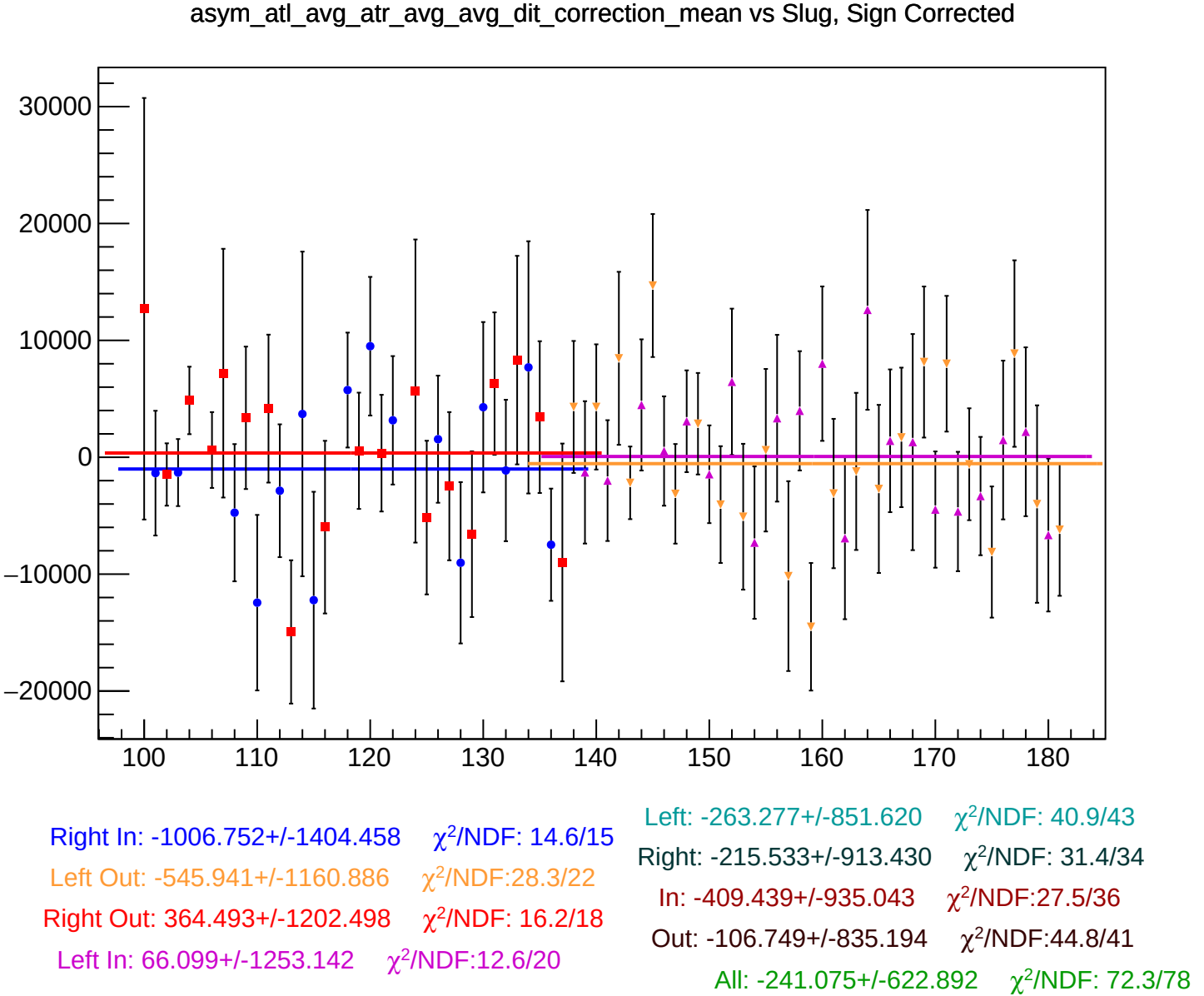
Left: 1329.319+/-0.158 $\chi^2$/NDF: 304320.9/43

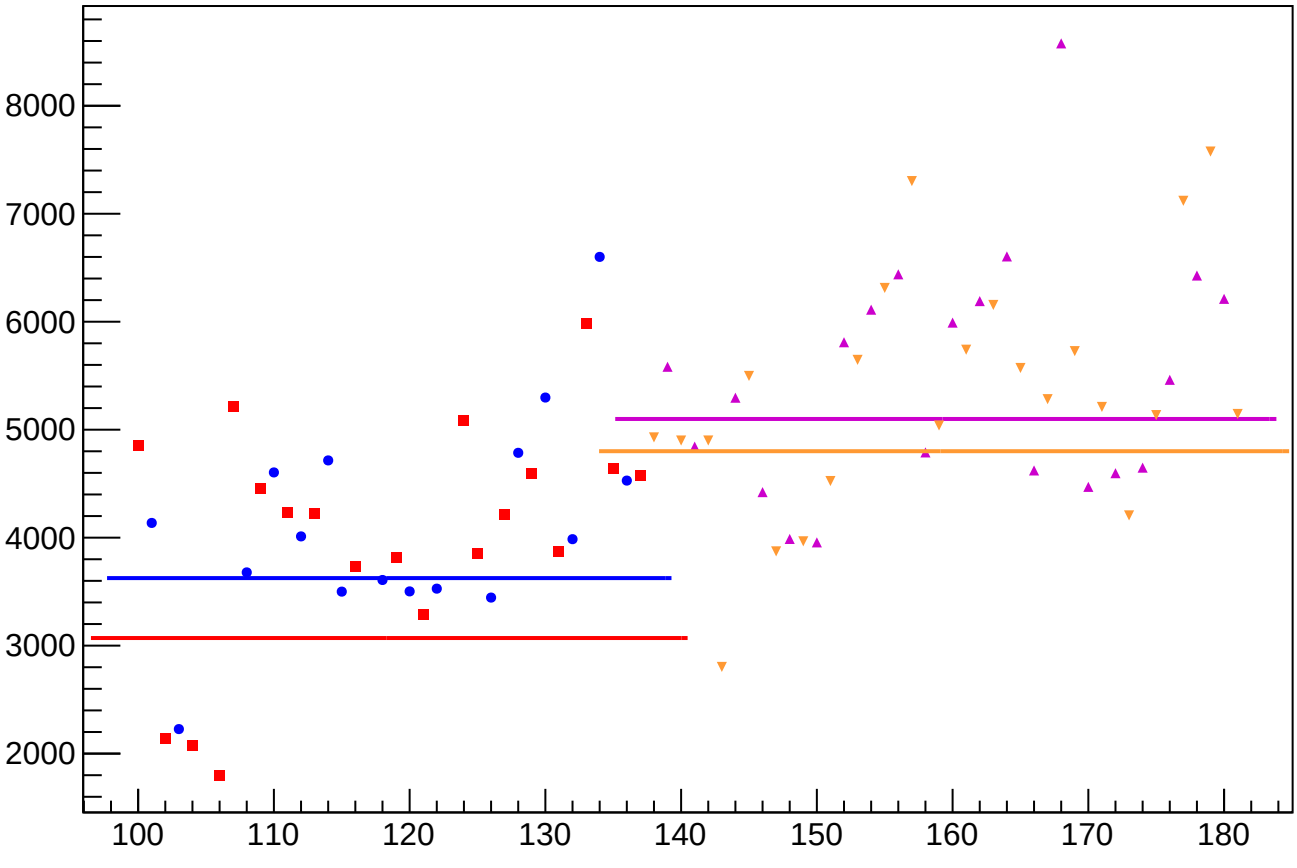
Right: 1345.331+/-0.254 $\chi^2$/NDF: 766617.4/34

In: 1342.983+/-0.193 $\chi^2$/NDF:547470.1/36

Out: 1325.205+/-0.186 $\chi^2$/NDF:521948.3/41

All: 1333.785+/-0.134 $\chi^2$/NDF: 1073803.9/78


asym_atl_avg_atr_avg_avg_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -1006.752+/-1404.458 χ²/NDF: 14.6/15
Left Out: -545.941+/-1160.886 χ²/NDF:28.3/22
Right Out: 364.493+/-1202.498 χ²/NDF: 16.2/18
Left In: 66.099+/-1253.142 χ²/NDF:12.6/20
Left: -263.277+/-851.620 χ²/NDF: 40.9/43
Right: -215.533+/-913.430 χ²/NDF: 31.4/34
In: -409.439+/-935.043 χ²/NDF:27.5/36
Out: -106.749+/-835.194 χ²/NDF:44.8/41
All: -241.075+/-622.892 χ²/NDF: 72.3/78




Right In: 3625.512+/-0.993 $\chi^2$/NDF: 944905.4/15

Left Out: 4800.779+/-0.821 $\chi^2$/NDF:1996699.1/22

Right Out: 3070.442+/-0.850 $\chi^2$/NDF: 1838659.1/18

Left In: 5099.287+/-0.886 $\chi^2$/NDF:1135232.9/20

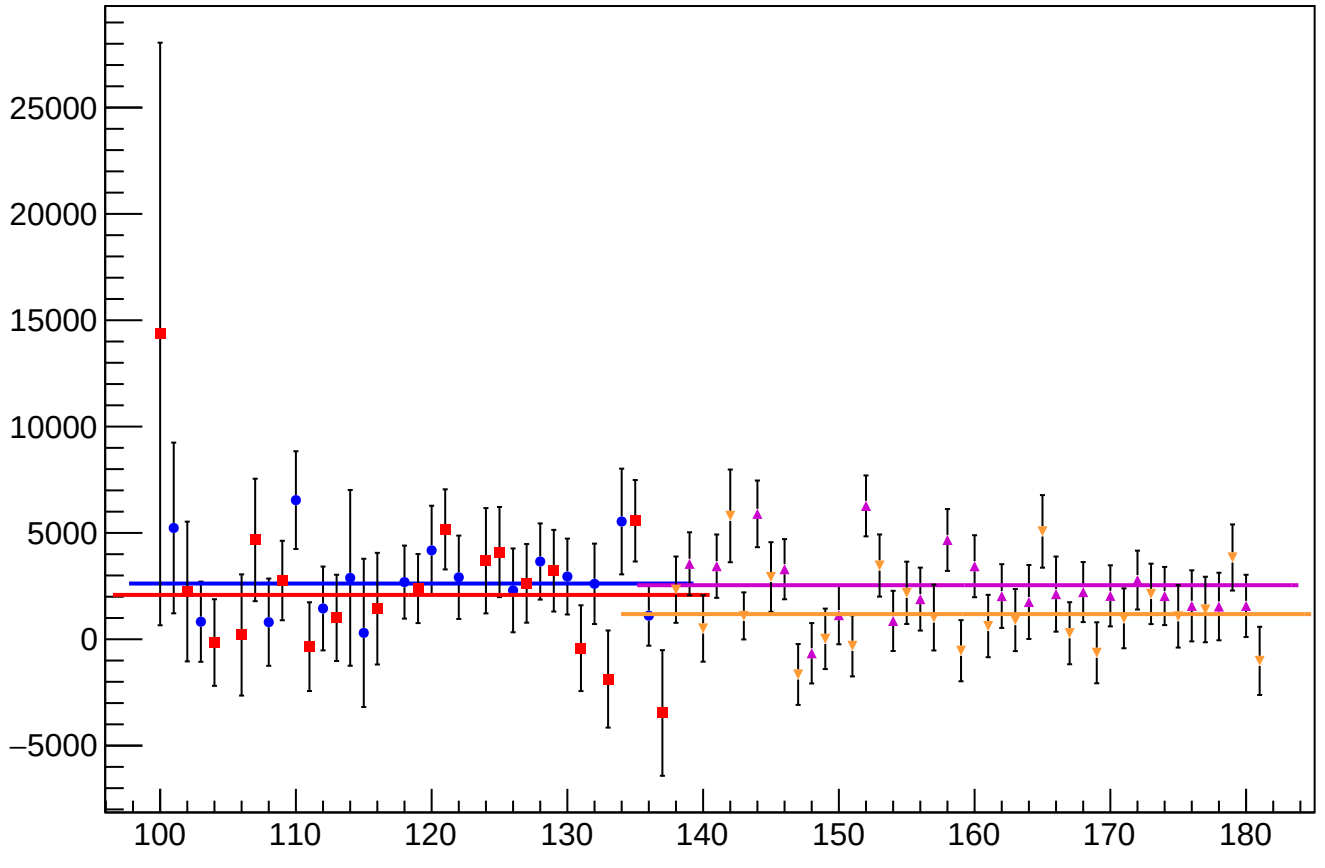
Left: 4938.642+/-0.602 $\chi^2$/NDF: 3193005.4/43

Right: 3305.233+/-0.646 $\chi^2$/NDF: 2963820.1/34

In: 4446.041+/-0.661 $\chi^2$/NDF:3306270.6/36

Out: 3966.067+/-0.591 $\chi^2$/NDF:5978830.7/41

All: 4179.067+/-0.440 $\chi^2$/NDF: 9578225.7/78




Right In: 2620.535+/-511.510 $\chi^2$/NDF: 9.3/15

Left Out: 1183.199+/-309.369 $\chi^2$/NDF:29.1/22

Right Out: 2085.608+/-504.873 $\chi^2$/NDF: 20.9/18

Left In: 2542.642+/-322.952 $\chi^2$/NDF:24.6/20

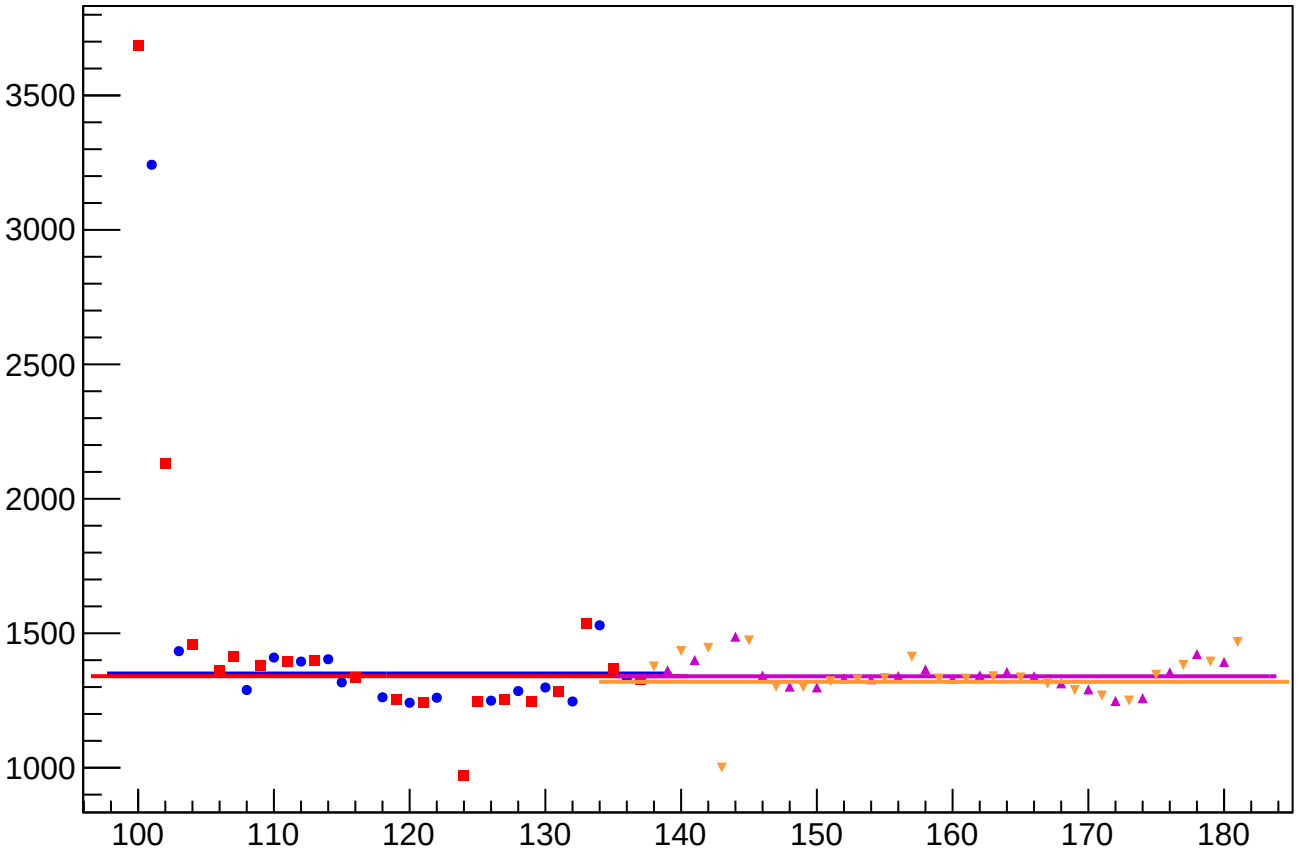
Left: 1833.730+/-223.405 $\chi^2$/NDF: 62.9/43

Right: 2349.579+/-359.323 $\chi^2$/NDF: 30.8/34

In: 2564.842+/-273.078 $\chi^2$/NDF:33.9/36

Out: 1429.540+/-263.784 $\chi^2$/NDF:52.4/41

All: 1977.543+/-189.724 $\chi^2$/NDF: 95.2/78




Right In: 1350.369+/-0.362 $\chi^2$/NDF: 494051.2/15

Left Out: 1319.483+/-0.219 $\chi^2$/NDF:247262.2/22

Right Out: 1340.428+/-0.357 $\chi^2$/NDF: 272182.5/18

Left In: 1340.040+/-0.228 $\chi^2$/NDF:52838.2/20

Left: 1329.320+/-0.158 $\chi^2$/NDF: 304326.0/43

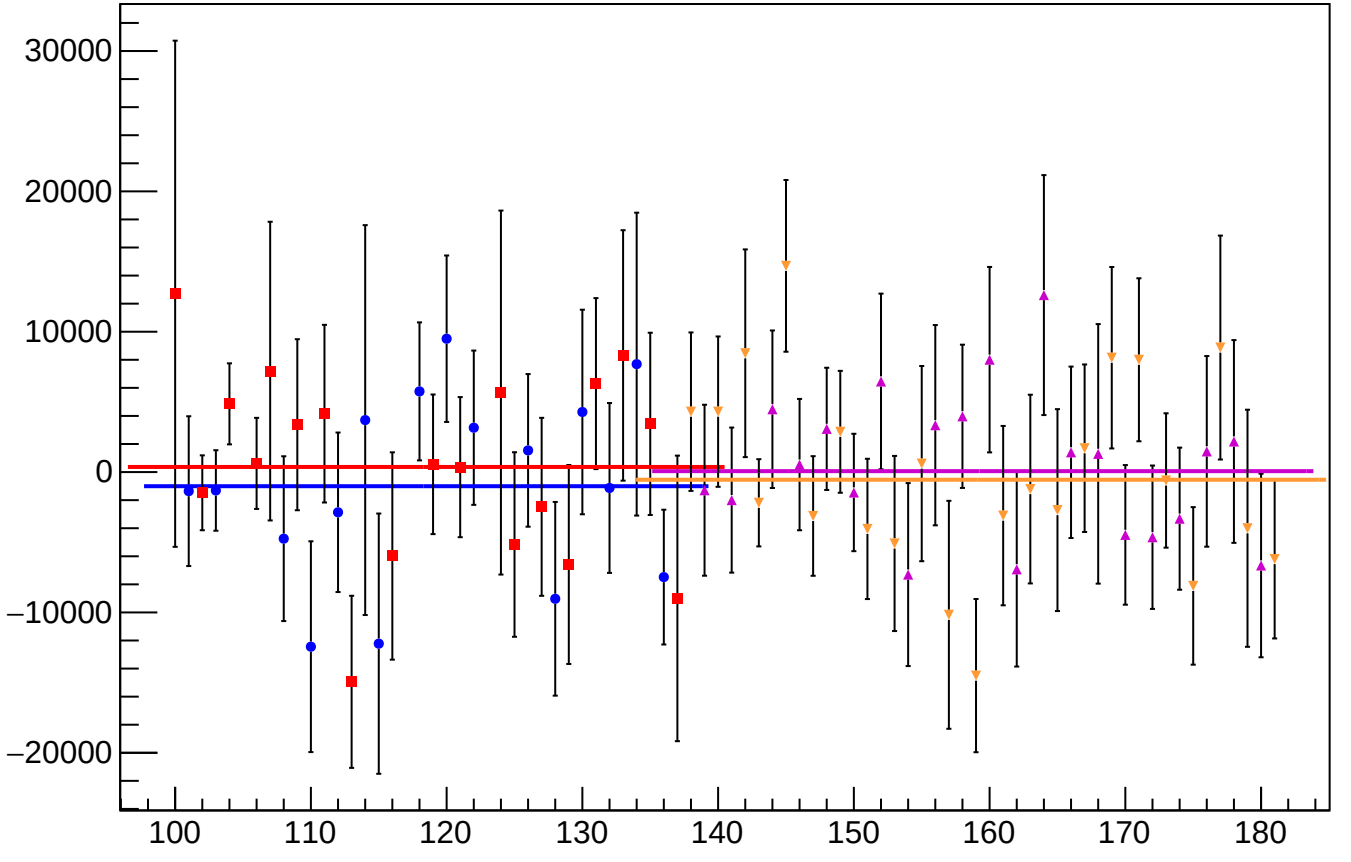
Right: 1345.330+/-0.254 $\chi^2$/NDF: 766616.6/34

In: 1342.984+/-0.193 $\chi^2$/NDF:547472.5/36

Out: 1325.206+/-0.186 $\chi^2$/NDF:521949.5/41

All: 1333.786+/-0.134 $\chi^2$/NDF: 1073807.5/78

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1006.742+/-1404.455 $\chi^2$/NDF: 14.6/15

Left Out: -545.945+/-1160.888 $\chi^2$/NDF:28.3/22

Right Out: 364.495+/-1202.495 $\chi^2$/NDF: 16.2/18

Left In: 66.099+/-1253.144 $\chi^2$/NDF:12.6/20

Left: -263.279+/-851.621 $\chi^2$/NDF: 40.9/43

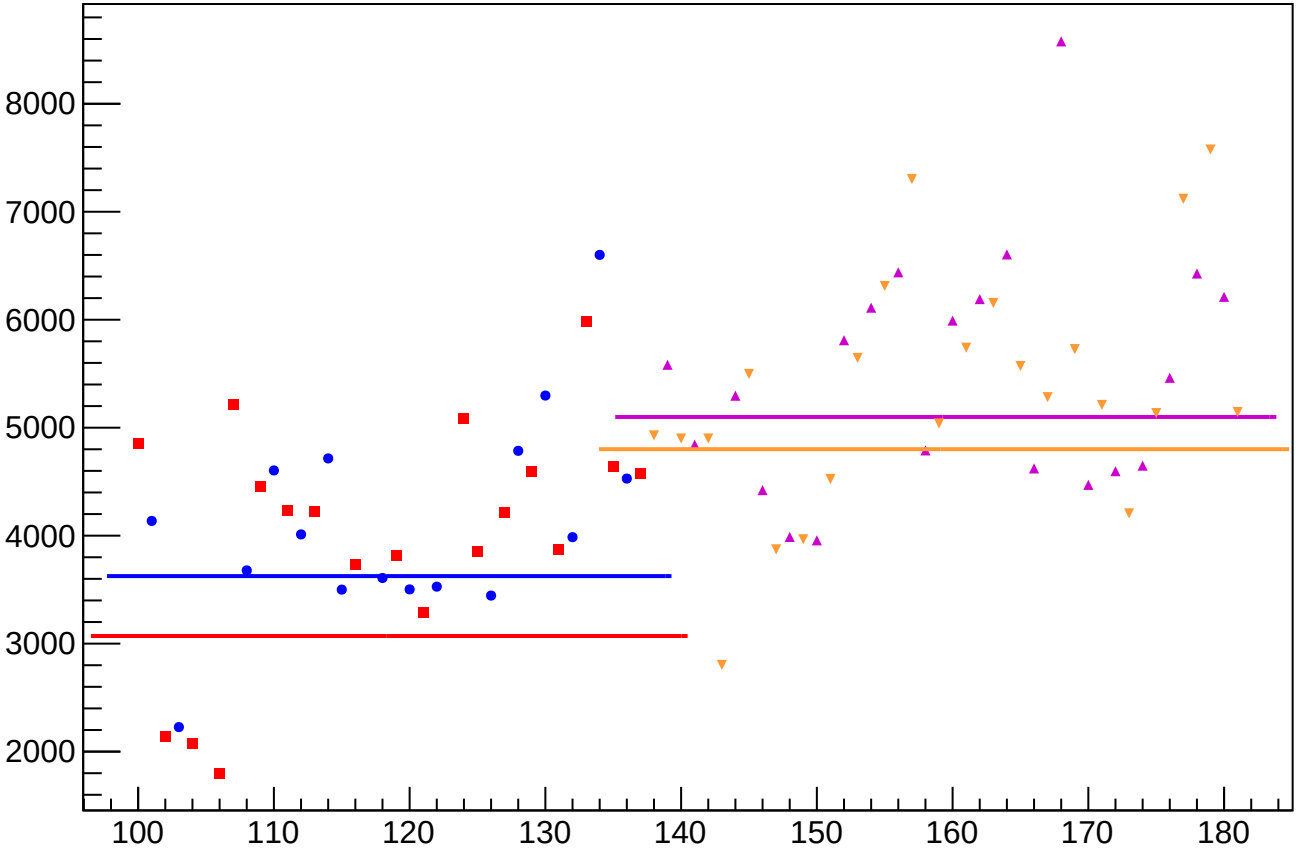
Right: -215.528+/-913.428 $\chi^2$/NDF: 31.4/34

In: -409.437+/-935.043 $\chi^2$/NDF:27.5/36

Out: -106.748+/-835.194 $\chi^2$/NDF:44.8/41

All: -241.074+/-622.892 $\chi^2$/NDF: 72.3/78

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3625.503+/-0.993 $\chi^2$/NDF: 944907.6/15

Left Out: 4800.787+/-0.821 $\chi^2$/NDF:1996700.6/22

Right Out: 3070.434+/-0.850 $\chi^2$/NDF: 1838662.0/18

Left In: 5099.295+/-0.886 $\chi^2$/NDF:1135236.0/20

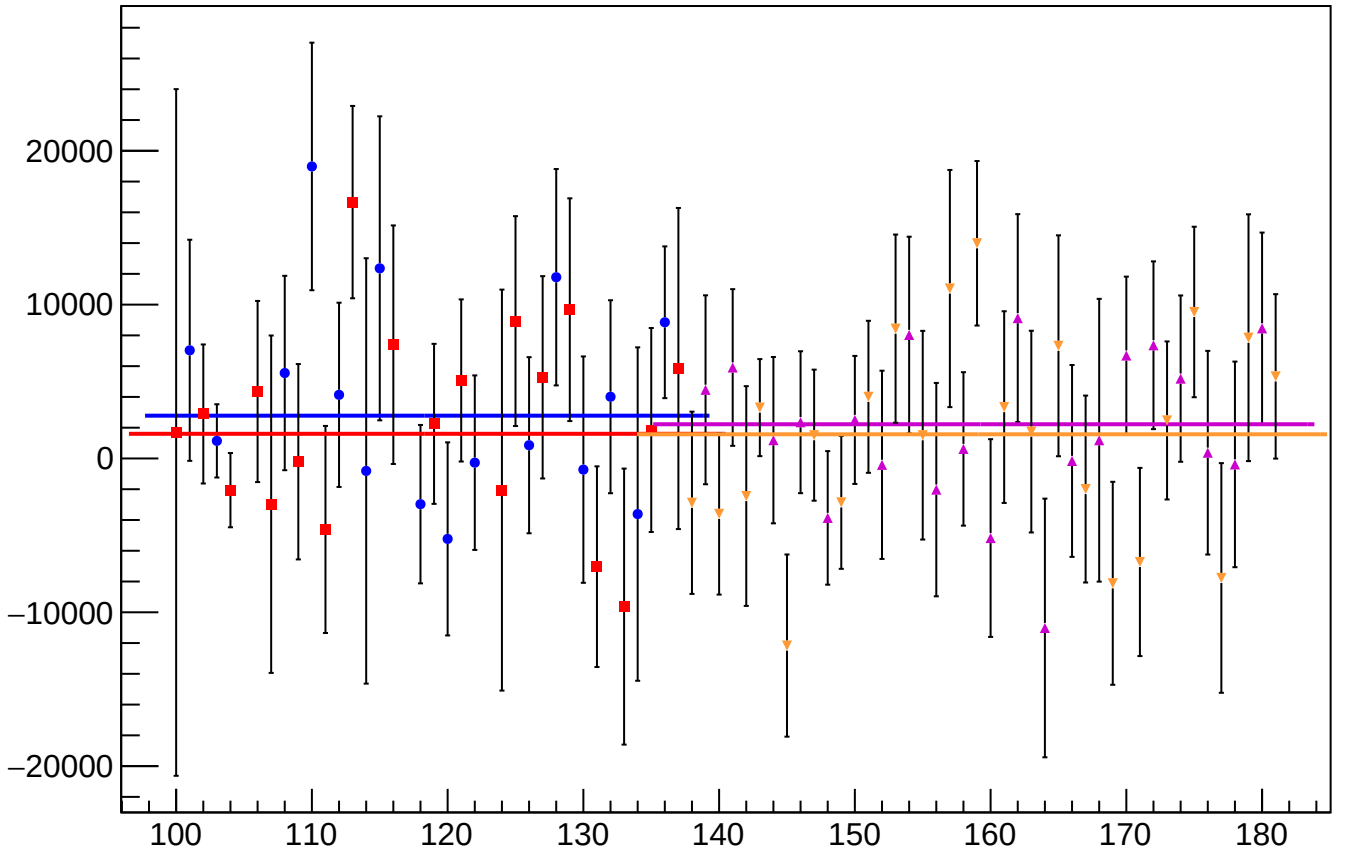
Left: 4938.650+/-0.602 $\chi^2$/NDF: 3193009.9/43

Right: 3305.224+/-0.646 $\chi^2$/NDF: 2963825.9/34

In: 4446.038+/-0.661 $\chi^2$/NDF:3306305.5/36

Out: 3966.063+/-0.591 $\chi^2$/NDF:5978878.1/41

All: 4179.064+/-0.440 $\chi^2$/NDF: 9578309.7/78




Right In: 2780.878+/-1389.439 $\chi^2$/NDF: 13.2/15

Left Out: 1571.019+/-1156.700 $\chi^2$/NDF:26.8/22

Right Out: 1602.626+/-1337.018 $\chi^2$/NDF: 16.8/18

Left In: 2223.929+/-1246.139 $\chi^2$/NDF:12.3/20

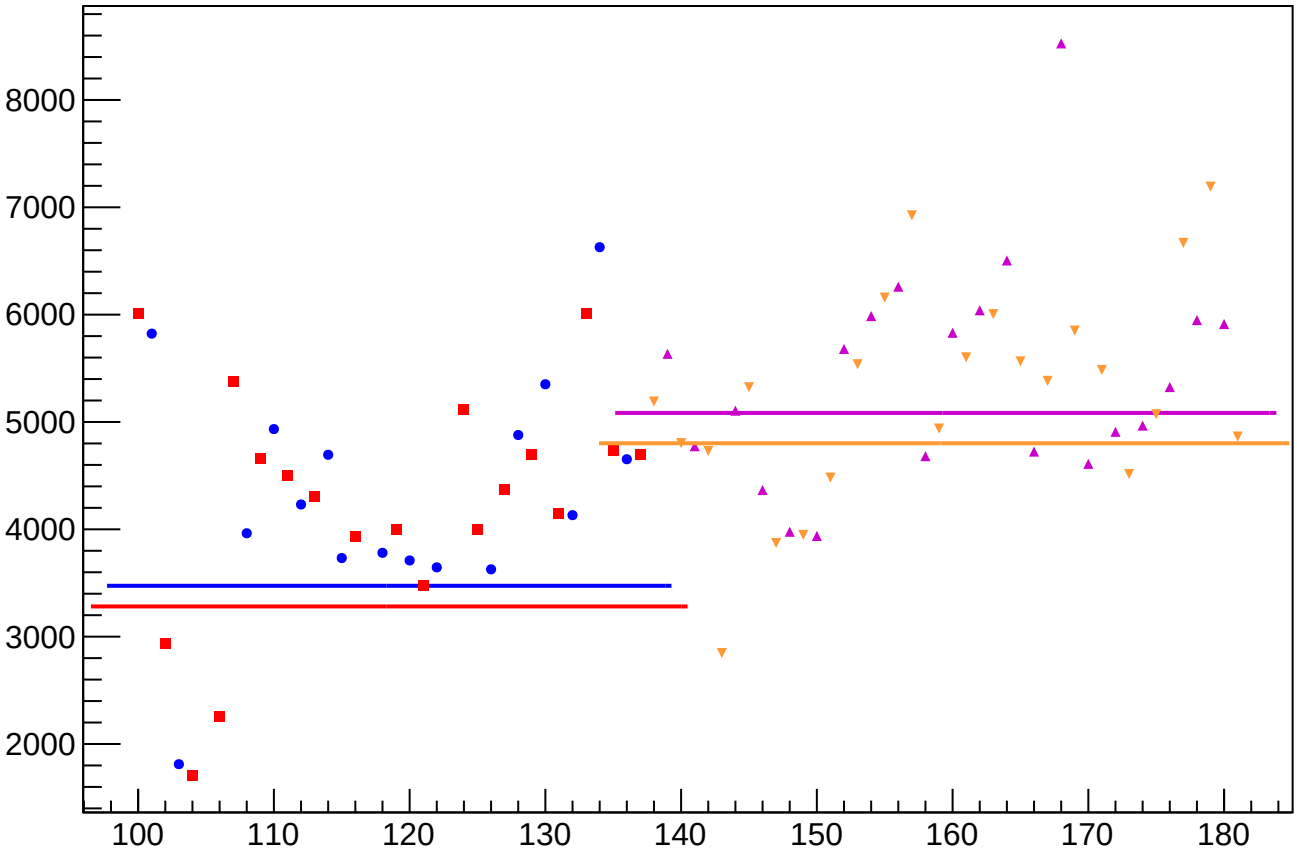
Left: 1873.205+/-847.768 $\chi^2$/NDF: 39.3/43

Right: 2169.106+/-963.414 $\chi^2$/NDF: 30.3/34

In: 2472.211+/-927.693 $\chi^2$/NDF:25.6/36

Out: 1584.549+/-874.769 $\chi^2$/NDF:43.6/41

All: 2002.339+/-636.443 $\chi^2$/NDF: 69.7/78




Right In: 3473.898+/-0.982 $\chi^2$/NDF: 1843964.2/15

Left Out: 4801.890+/-0.818 $\chi^2$/NDF:1766575.5/22

Right Out: 3281.478+/-0.932 $\chi^2$/NDF: 1875493.9/18

Left In: 5084.315+/-0.881 $\chi^2$/NDF:986348.1/20

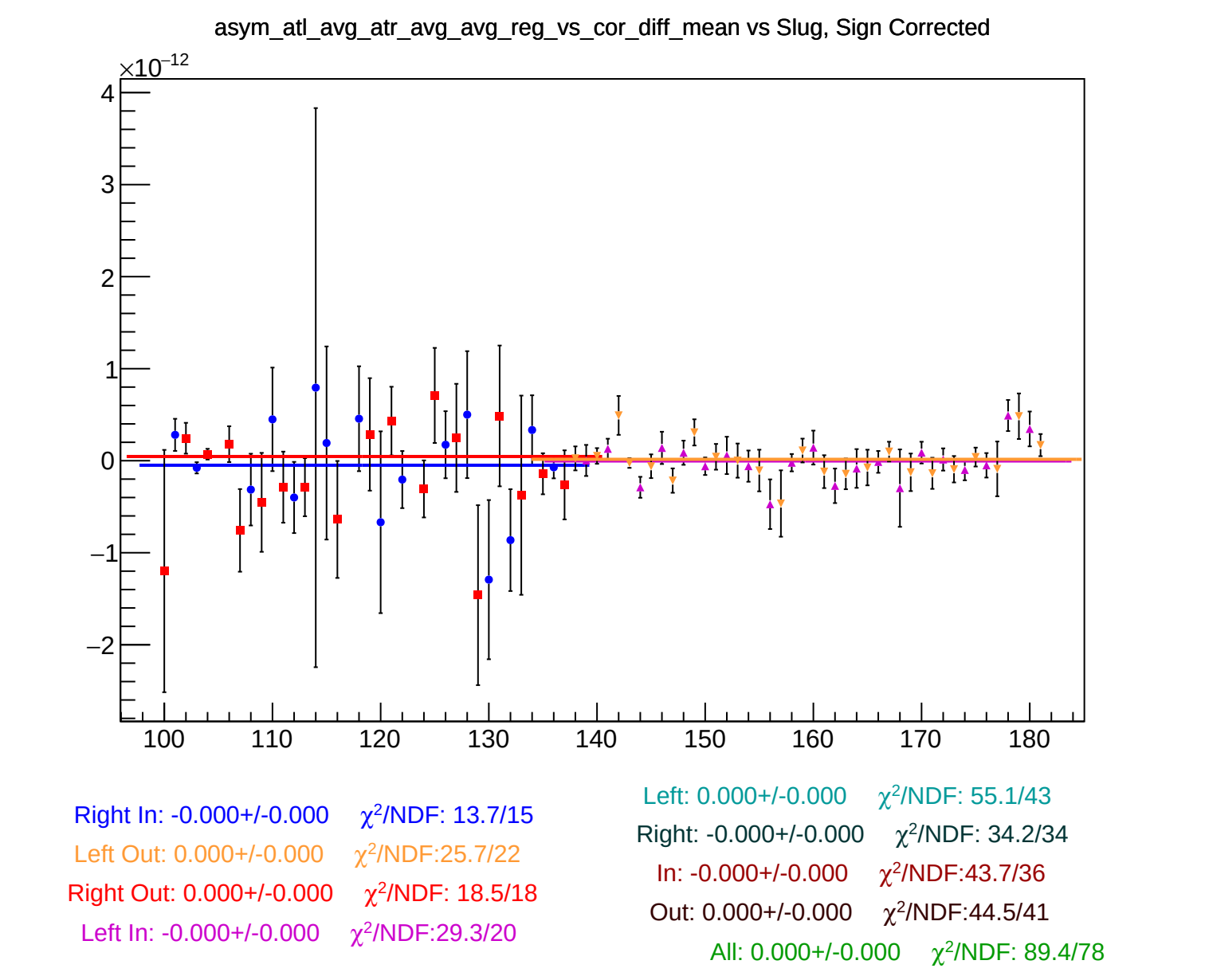
Left: 4932.605+/-0.599 $\chi^2$/NDF: 2808107.9/43

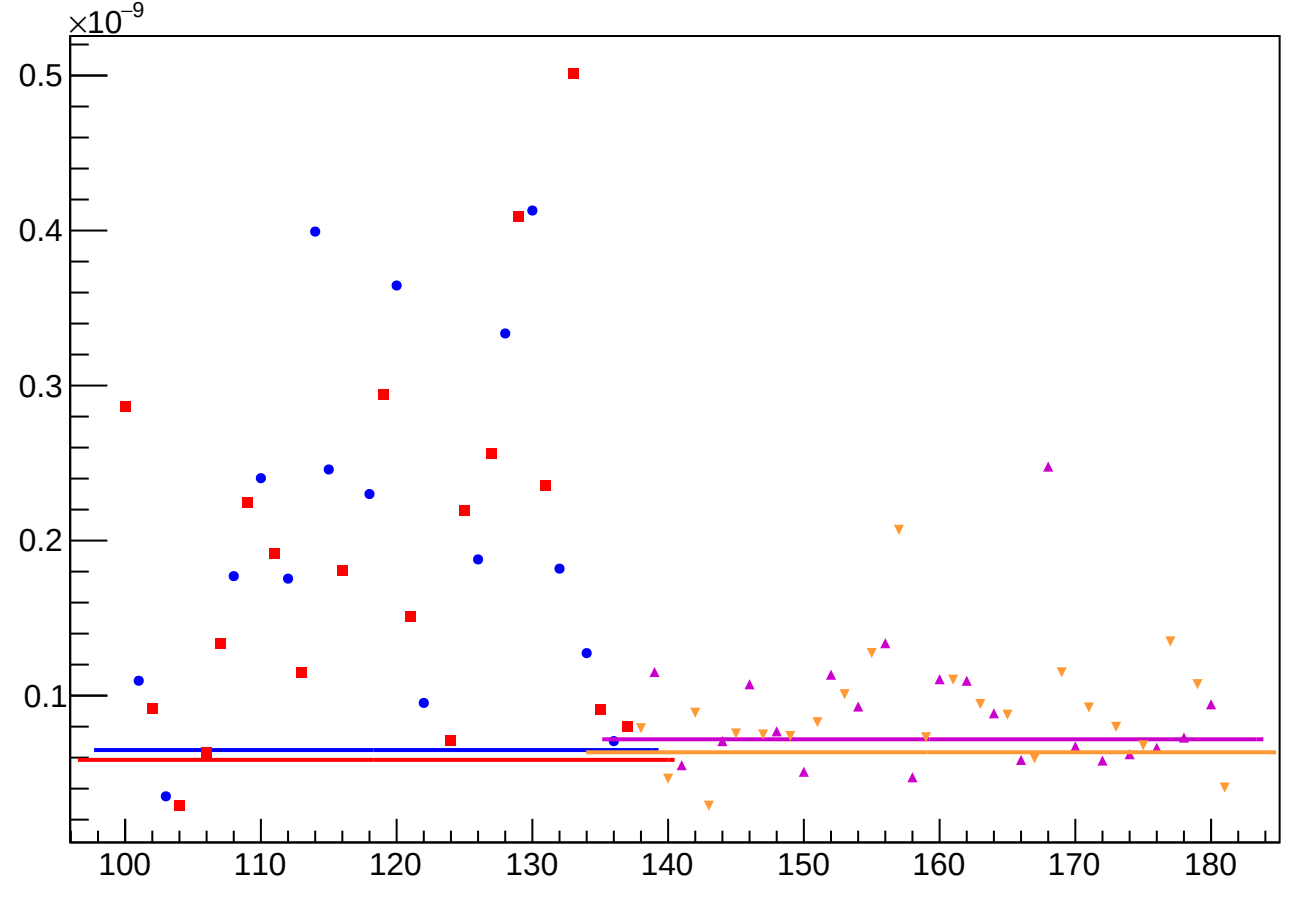
Right: 3372.669+/-0.676 $\chi^2$/NDF: 3739637.8/34

In: 4366.403+/-0.656 $\chi^2$/NDF:4319354.1/36

Out: 4140.787+/-0.615 $\chi^2$/NDF:5144584.7/41

All: 4246.310+/-0.449 $\chi^2$/NDF: 9526905.7/78


asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 13.7/15
Left Out: 0.000+/-0.000 χ²/NDF:25.7/22
Right Out: 0.000+/-0.000 χ²/NDF: 18.5/18
Left In: -0.000+/-0.000 χ²/NDF:29.3/20
Left: 0.000+/-0.000 χ²/NDF: 55.1/43
Right: -0.000+/-0.000 χ²/NDF: 34.2/34
In: -0.000+/-0.000 χ²/NDF:43.7/36
Out: 0.000+/-0.000 χ²/NDF:44.5/41
All: 0.000+/-0.000 χ²/NDF: 89.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2592912.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2347943.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2855105.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1349130.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3781966.3/43

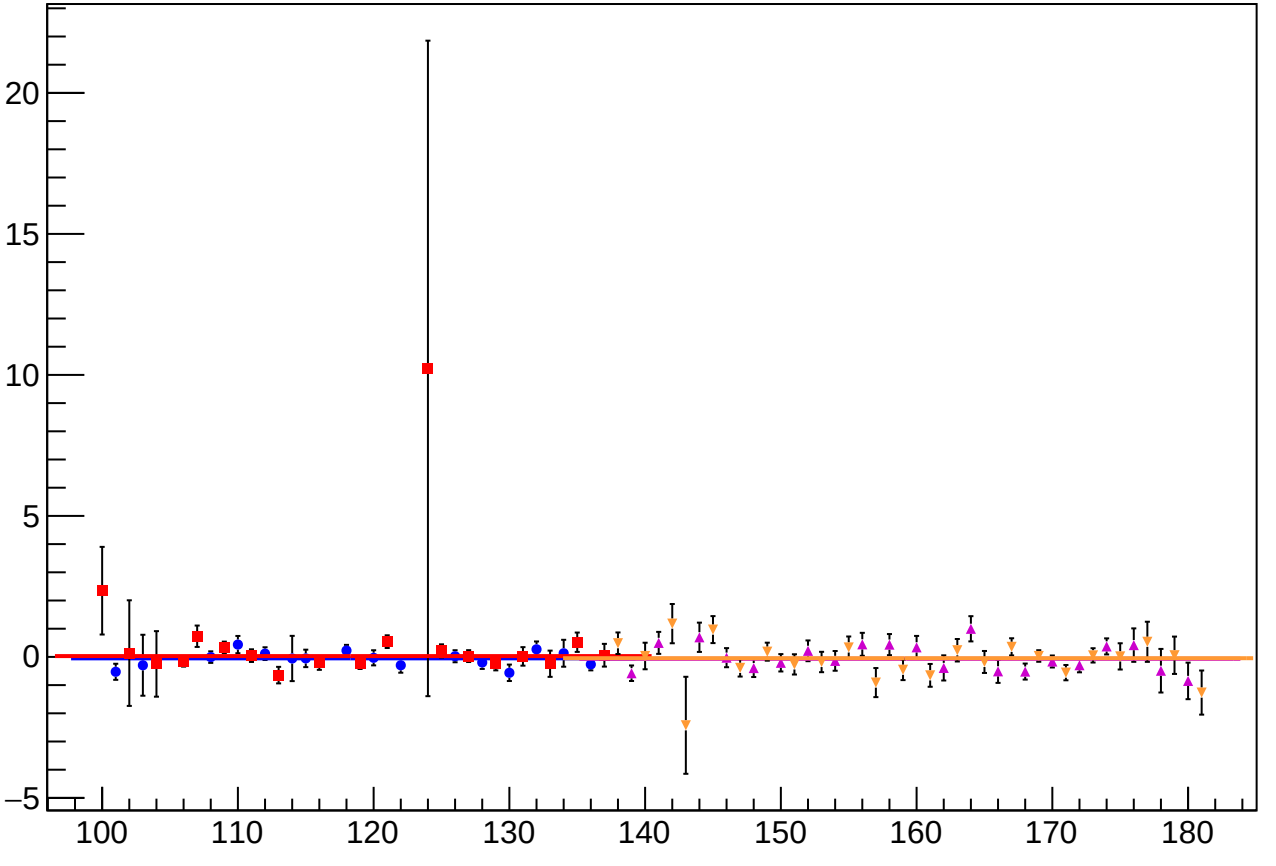
Right: 0.000+/-0.000 $\chi^2$/NDF: 5465312.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:3971351.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5219114.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9285343.4/78

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.051+/-0.067 $\chi^2$/NDF: 14.9/15

Left Out: -0.046+/-0.078 $\chi^2$/NDF:30.4/22

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.066+/-0.076 $\chi^2$/NDF:29.8/20

Left: -0.056+/-0.054 $\chi^2$/NDF: 60.2/43

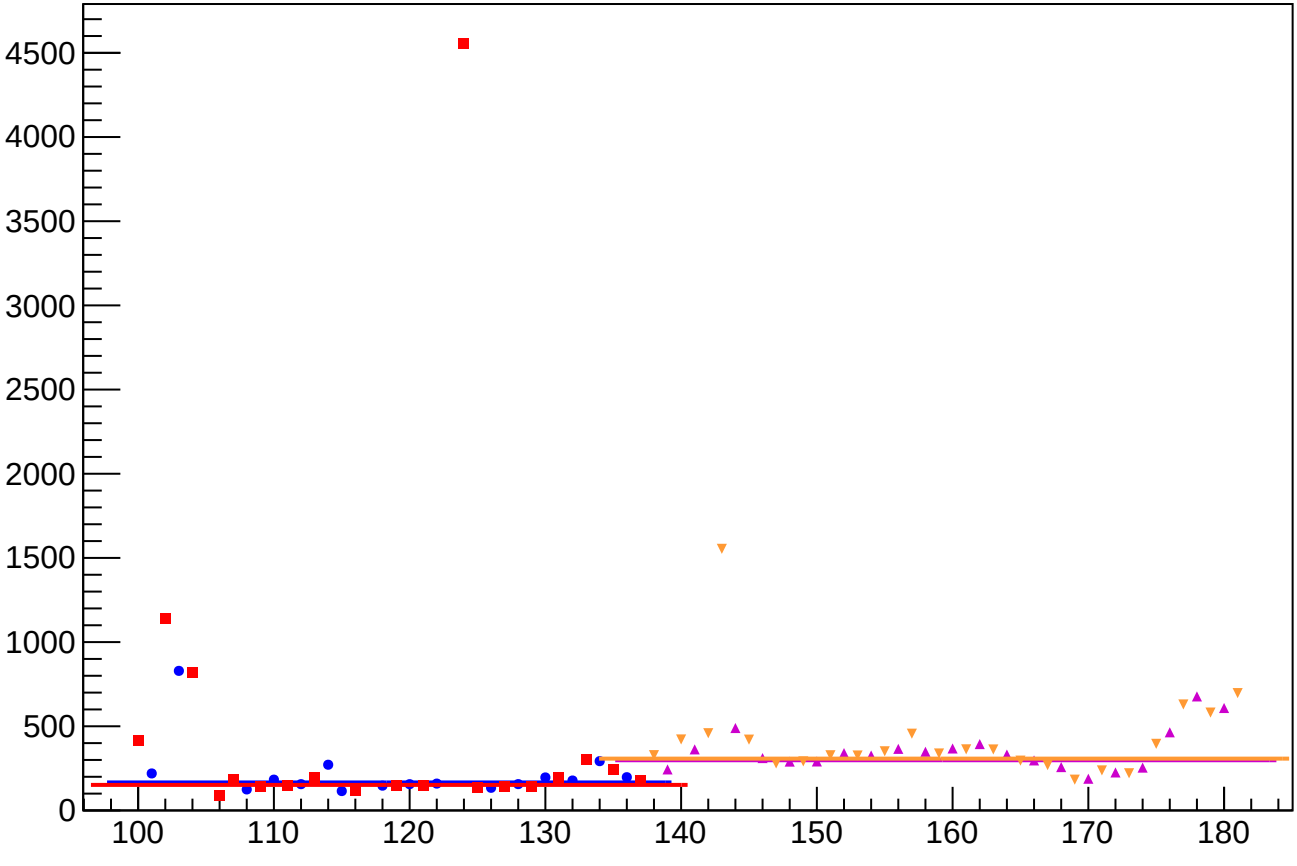
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.058+/-0.050 $\chi^2$/NDF:44.7/36

Out: -0.001+/-0.049 $\chi^2$/NDF:58.5/41

All: -0.029+/-0.035 $\chi^2$/NDF: 103.8/78

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 166.360+/-0.047 $\chi^2$/NDF: 1282728.5/15

Left Out: 307.852+/-0.055 $\chi^2$/NDF:4151443.4/22

Right Out: 151.791+/-0.045 $\chi^2$/NDF: 2315638.8/18

Left In: 298.286+/-0.054 $\chi^2$/NDF:2586936.0/20

Left: 302.957+/-0.038 $\chi^2$/NDF: 6753823.4/43

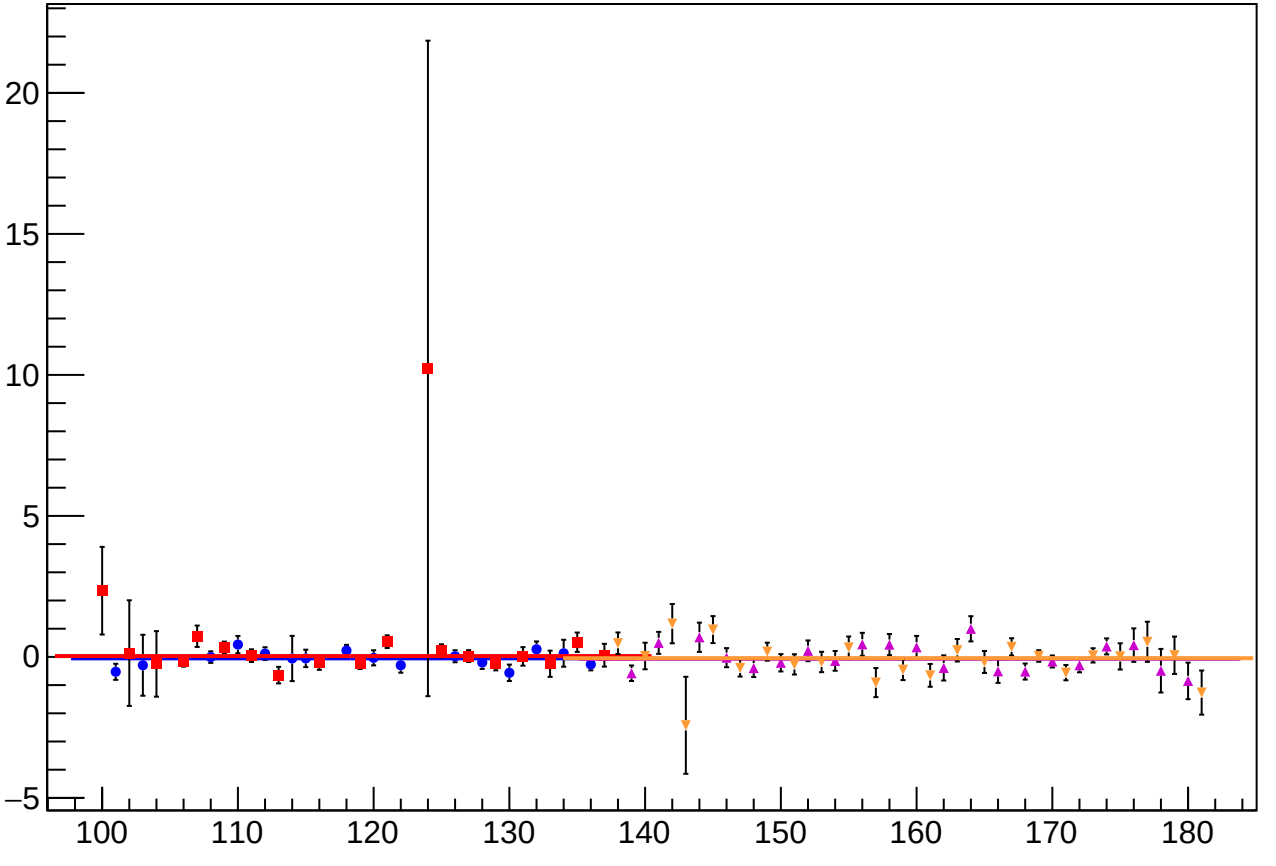
Right: 158.774+/-0.033 $\chi^2$/NDF: 3648009.6/34

In: 223.726+/-0.035 $\chi^2$/NDF:7269029.3/36

Out: 214.730+/-0.035 $\chi^2$/NDF:11259747.9/41

All: 219.164+/-0.025 $\chi^2$/NDF: 18561394.5/78

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.051+/-0.067 $\chi^2$/NDF: 14.9/15

Left Out: -0.046+/-0.078 $\chi^2$/NDF:30.4/22

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.066+/-0.076 $\chi^2$/NDF:29.8/20

Left: -0.056+/-0.054 $\chi^2$/NDF: 60.2/43

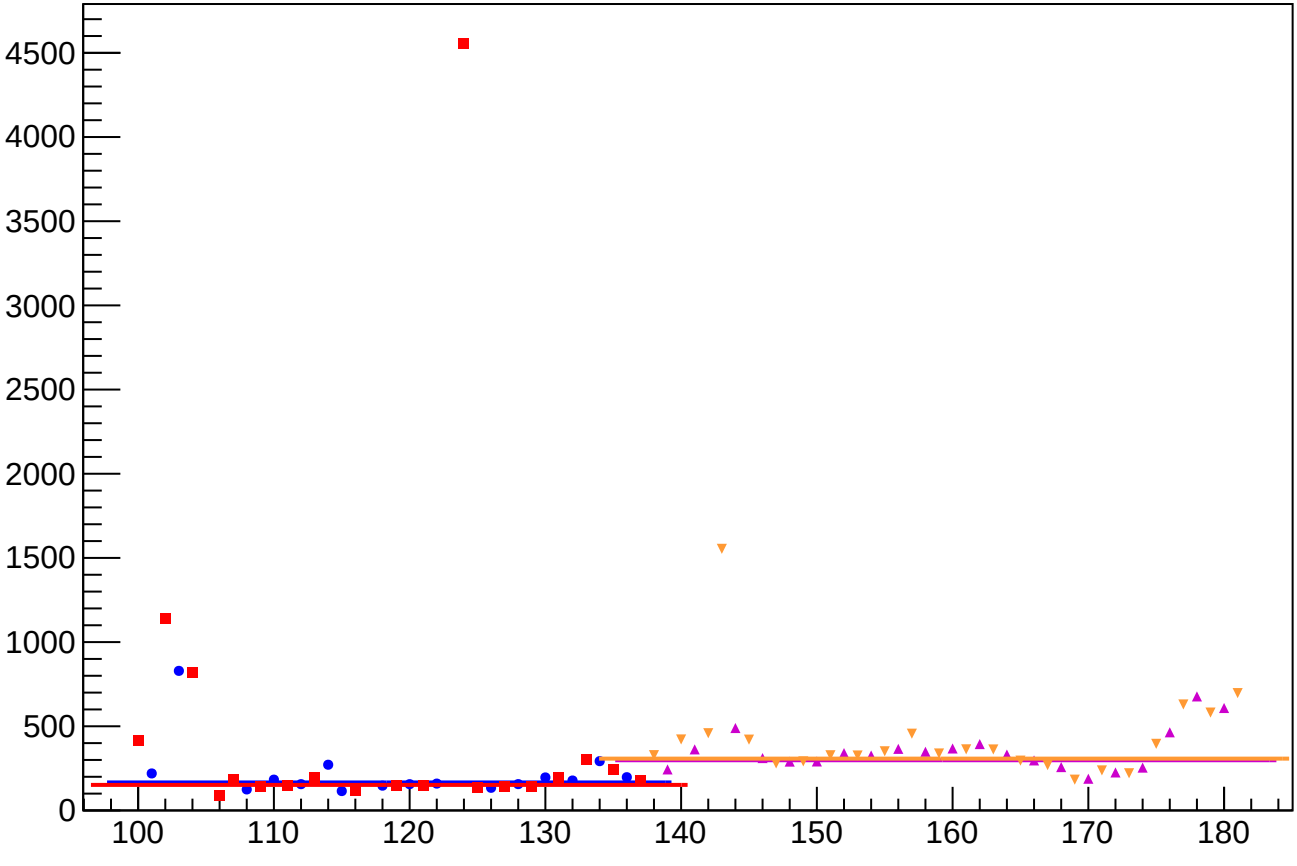
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.058+/-0.050 $\chi^2$/NDF:44.7/36

Out: -0.001+/-0.049 $\chi^2$/NDF:58.5/41

All: -0.029+/-0.035 $\chi^2$/NDF: 103.8/78

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 166.360+/-0.047 $\chi^2$/NDF: 1282728.5/15

Left Out: 307.852+/-0.055 $\chi^2$/NDF:4151443.4/22

Right Out: 151.791+/-0.045 $\chi^2$/NDF: 2315638.8/18

Left In: 298.286+/-0.054 $\chi^2$/NDF:2586936.0/20

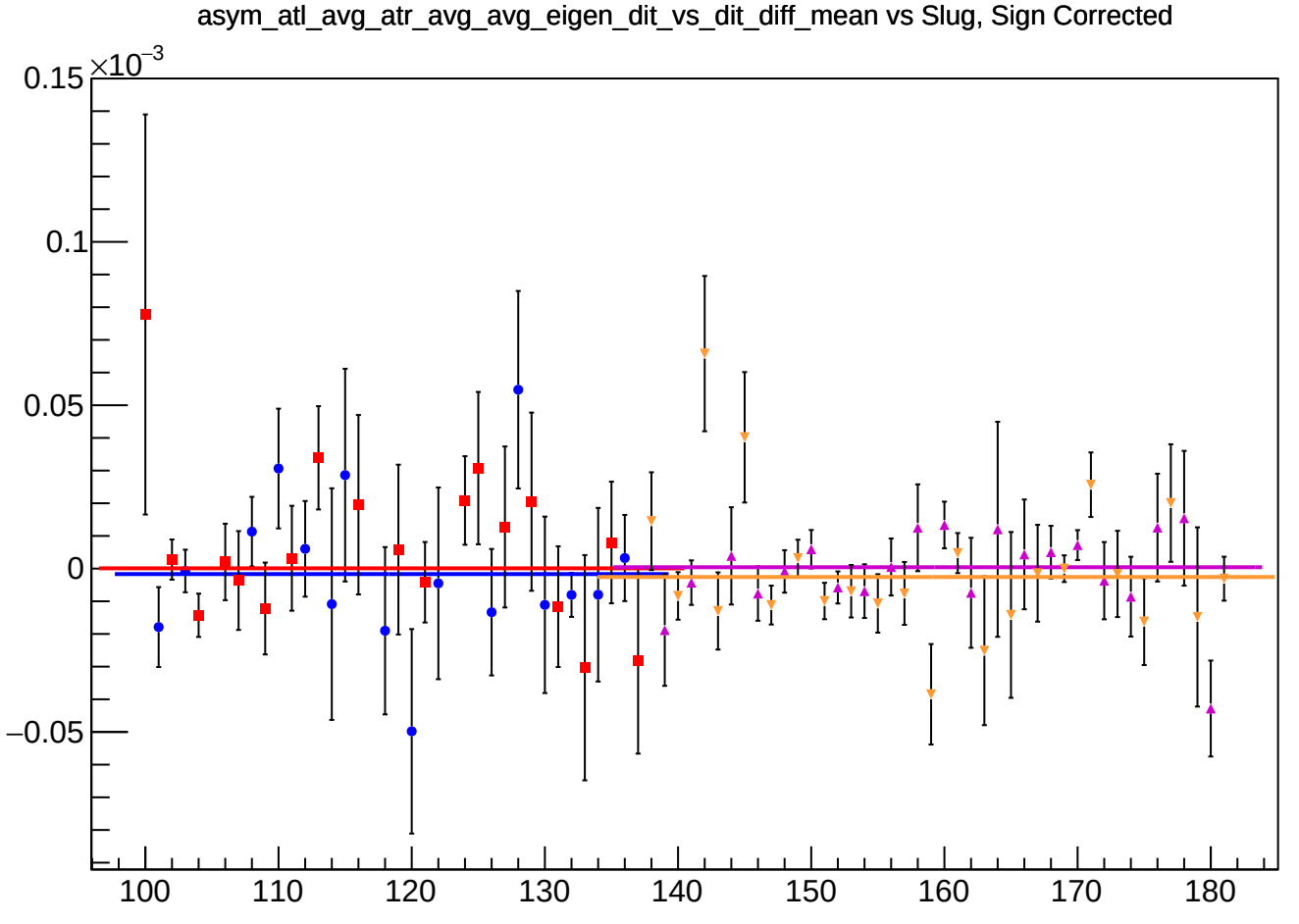
Left: 302.957+/-0.038 $\chi^2$/NDF: 6753823.4/43

Right: 158.774+/-0.033 $\chi^2$/NDF: 3648009.6/34

In: 223.726+/-0.035 $\chi^2$/NDF:7269029.3/36

Out: 214.730+/-0.035 $\chi^2$/NDF:11259747.9/41

All: 219.164+/-0.025 $\chi^2$/NDF: 18561394.5/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:41.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:23.5/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 66.1/43

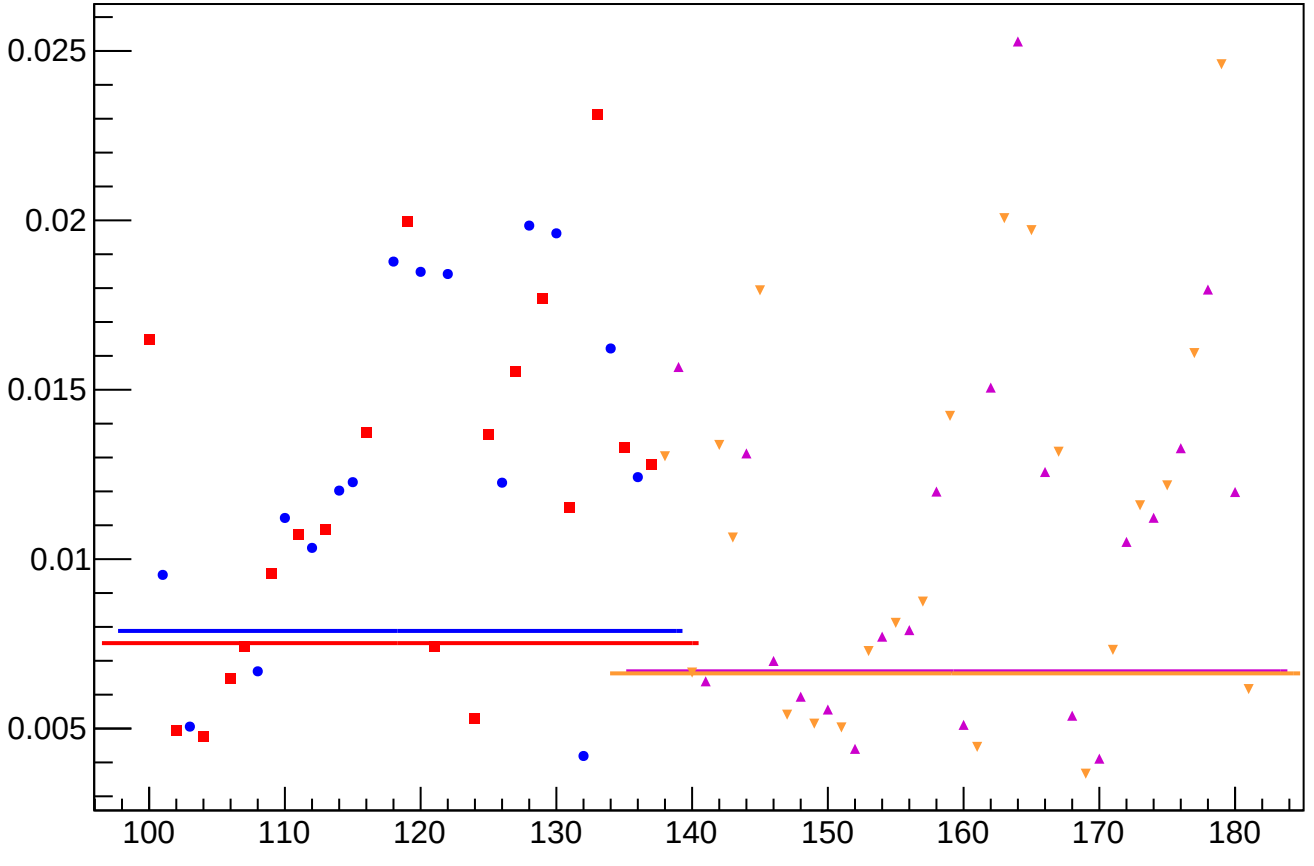
Right: -0.000+/-0.000 $\chi^2$/NDF: 35.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:39.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:61.8/41

All: -0.000+/-0.000 $\chi^2$/NDF: 101.7/78

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 3301734.3/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:7423883.1/22

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 2975331.6/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:5682999.3/20

Left: 0.007+/-0.000 $\chi^2$/NDF: 13107989.3/43

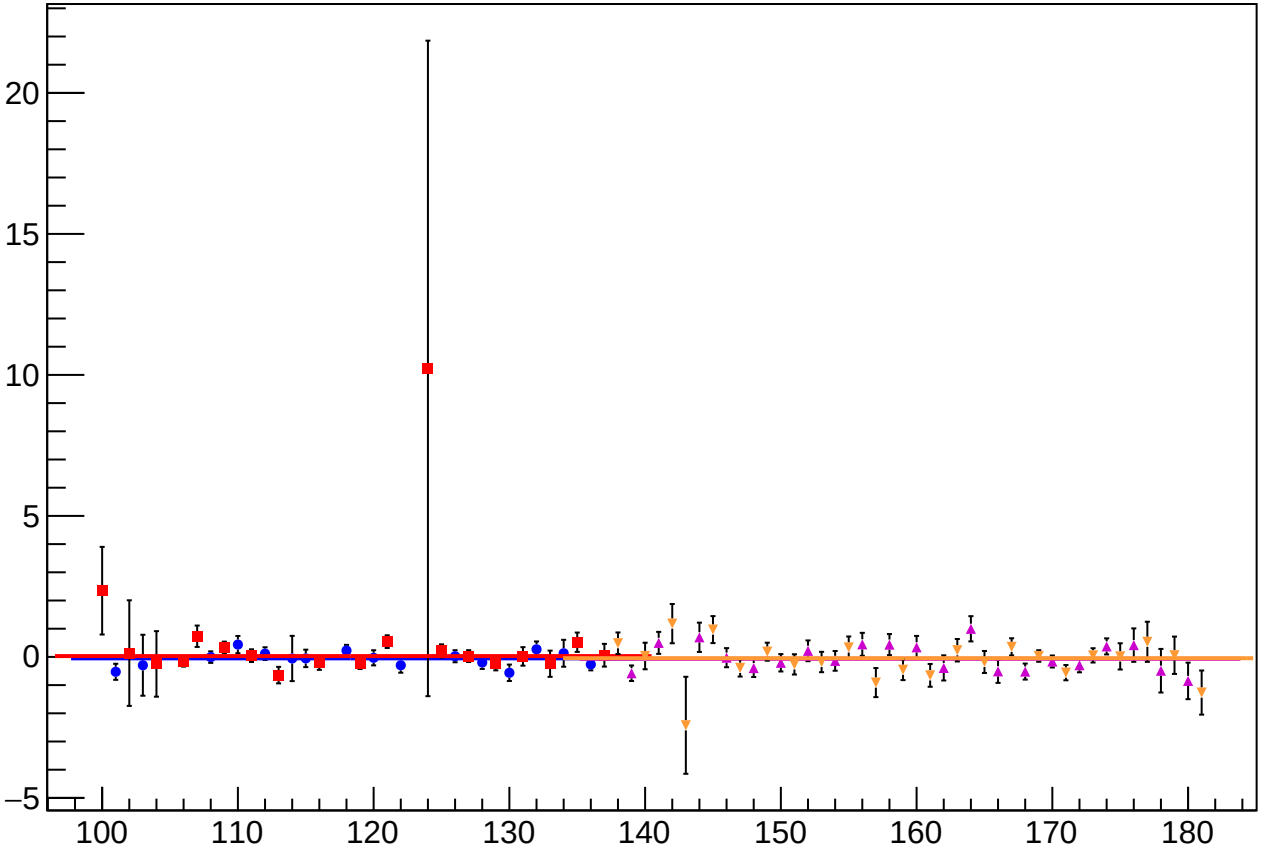
Right: 0.008+/-0.000 $\chi^2$/NDF: 6289175.2/34

In: 0.007+/-0.000 $\chi^2$/NDF:9173651.8/36

Out: 0.007+/-0.000 $\chi^2$/NDF:10521583.4/41

All: 0.007+/-0.000 $\chi^2$/NDF: 19700681.7/78

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.051+/-0.067 $\chi^2$/NDF: 14.9/15

Left Out: -0.046+/-0.078 $\chi^2$/NDF:30.4/22

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.066+/-0.076 $\chi^2$/NDF:29.8/20

Left: -0.056+/-0.054 $\chi^2$/NDF: 60.2/43

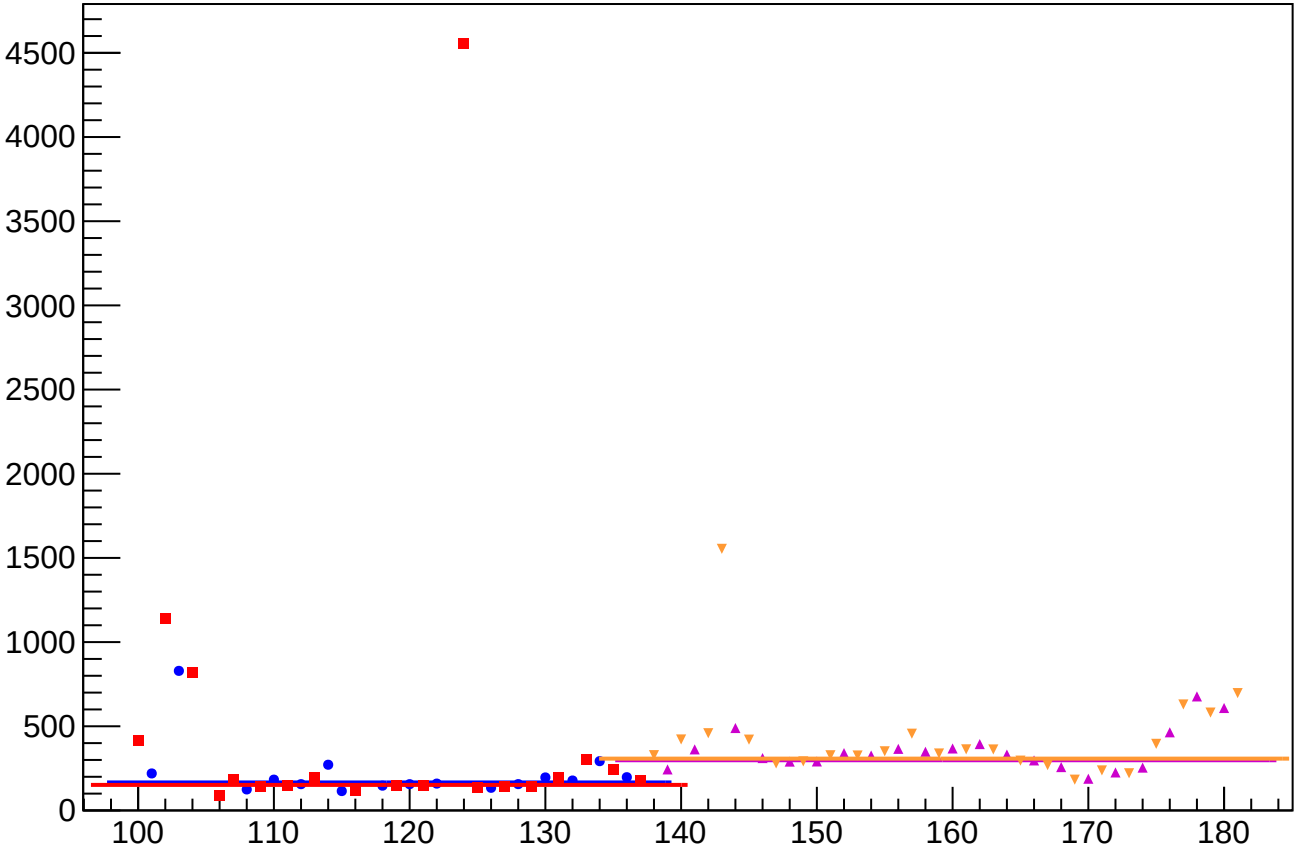
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.058+/-0.050 $\chi^2$/NDF:44.7/36

Out: -0.001+/-0.049 $\chi^2$/NDF:58.5/41

All: -0.029+/-0.035 $\chi^2$/NDF: 103.8/78

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 166.359+/-0.047 $\chi^2$/NDF: 1282724.2/15

Left Out: 307.852+/-0.055 $\chi^2$/NDF:4151649.6/22

Right Out: 151.790+/-0.045 $\chi^2$/NDF: 2315641.8/18

Left In: 298.287+/-0.054 $\chi^2$/NDF:2587079.3/20

Left: 302.957+/-0.038 $\chi^2$/NDF: 6754168.9/43

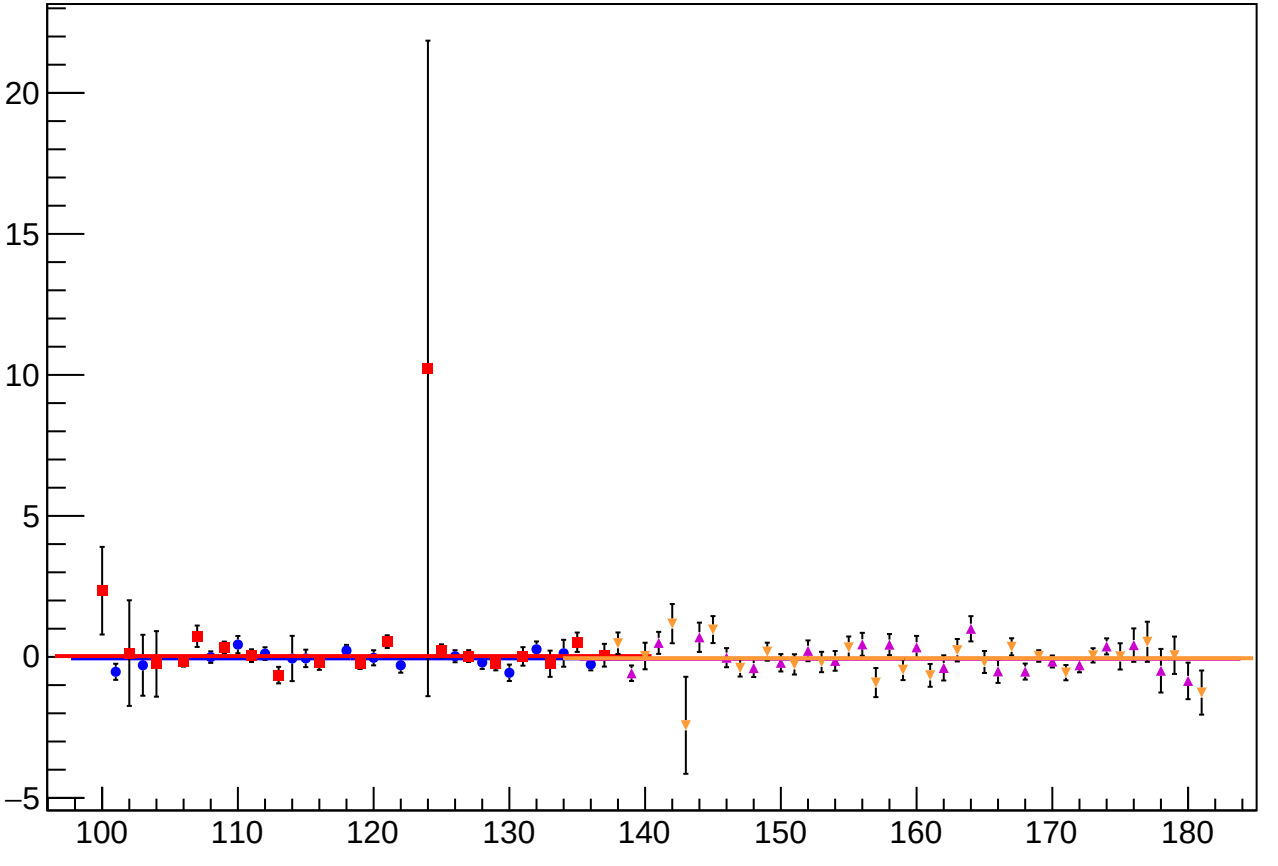
Right: 158.773+/-0.033 $\chi^2$/NDF: 3648012.6/34

In: 223.725+/-0.035 $\chi^2$/NDF:7269255.9/36

Out: 214.728+/-0.035 $\chi^2$/NDF:11260049.6/41

All: 219.163+/-0.025 $\chi^2$/NDF: 18561930.3/78

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.051+/-0.067 $\chi^2$/NDF: 14.9/15

Left Out: -0.046+/-0.078 $\chi^2$/NDF:30.4/22

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.066+/-0.076 $\chi^2$/NDF:29.8/20

Left: -0.056+/-0.054 $\chi^2$/NDF: 60.2/43

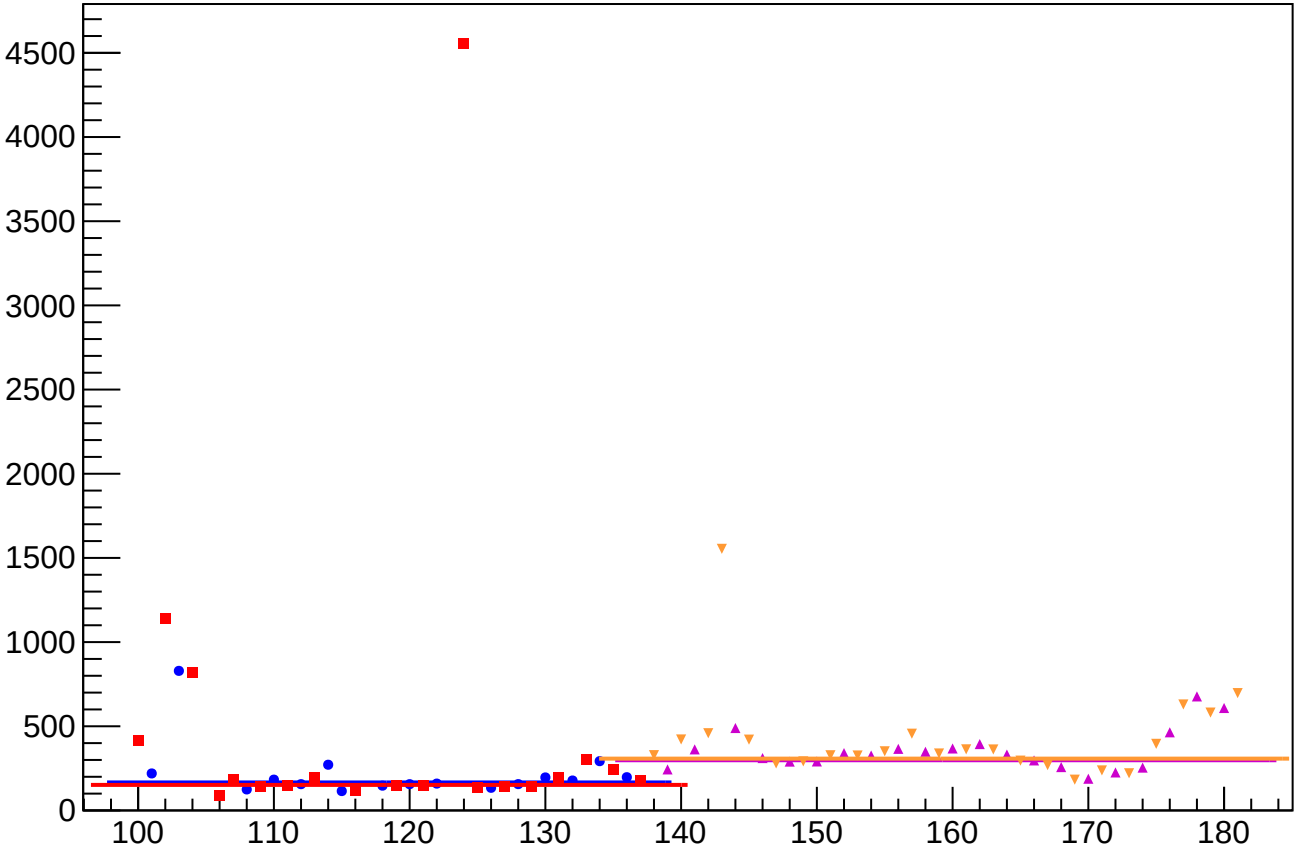
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.058+/-0.050 $\chi^2$/NDF:44.7/36

Out: -0.001+/-0.049 $\chi^2$/NDF:58.5/41

All: -0.029+/-0.035 $\chi^2$/NDF: 103.8/78

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 166.359+/-0.047 $\chi^2$/NDF: 1282724.2/15

Left Out: 307.852+/-0.055 $\chi^2$/NDF:4151649.6/22

Right Out: 151.790+/-0.045 $\chi^2$/NDF: 2315641.8/18

Left In: 298.287+/-0.054 $\chi^2$/NDF:2587079.3/20

Left: 302.957+/-0.038 $\chi^2$/NDF: 6754168.9/43

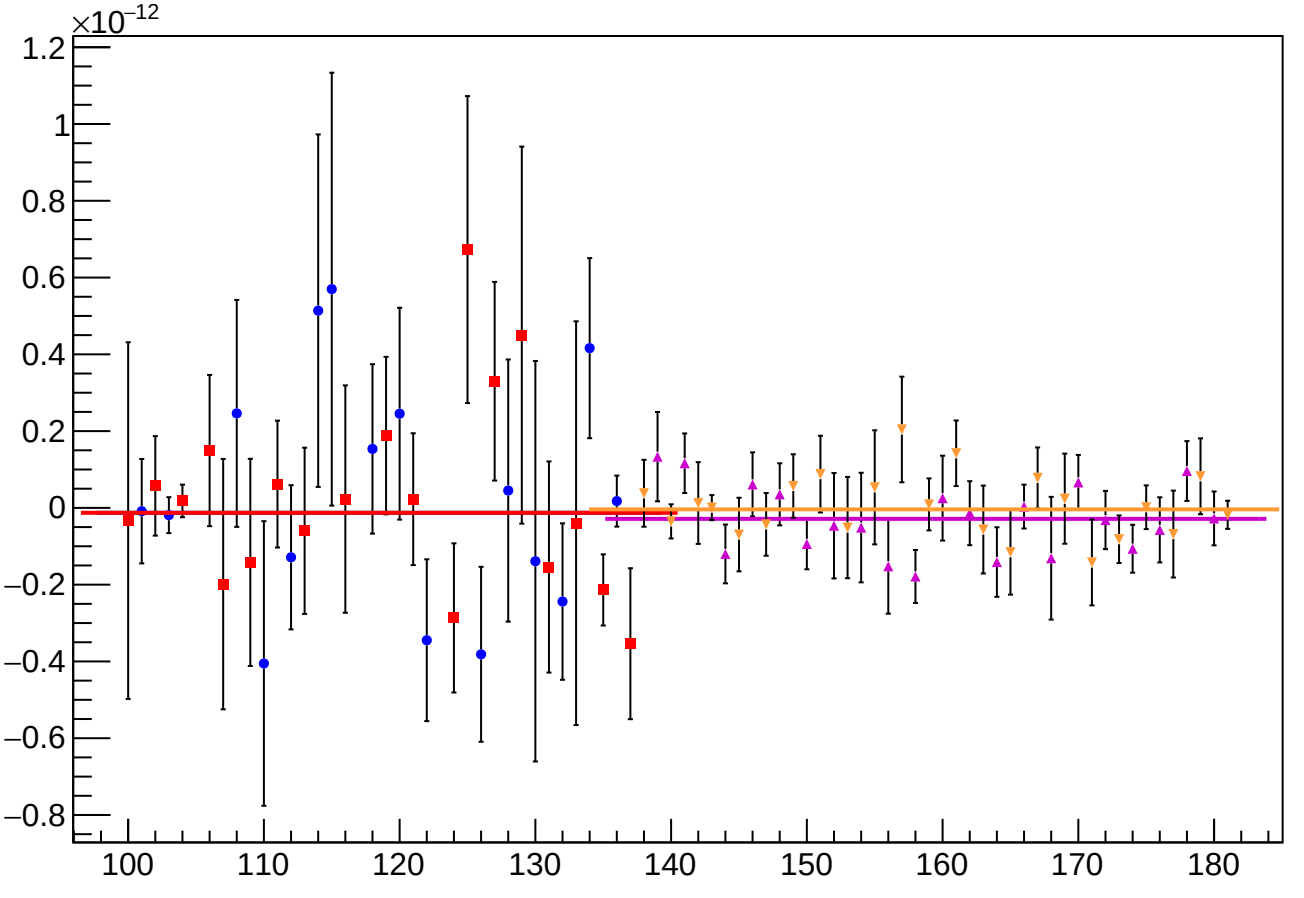
Right: 158.773+/-0.033 $\chi^2$/NDF: 3648012.6/34

In: 223.725+/-0.035 $\chi^2$/NDF:7269255.9/36

Out: 214.728+/-0.035 $\chi^2$/NDF:11260049.6/41

All: 219.163+/-0.025 $\chi^2$/NDF: 18561930.3/78

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.1/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:23.9/20

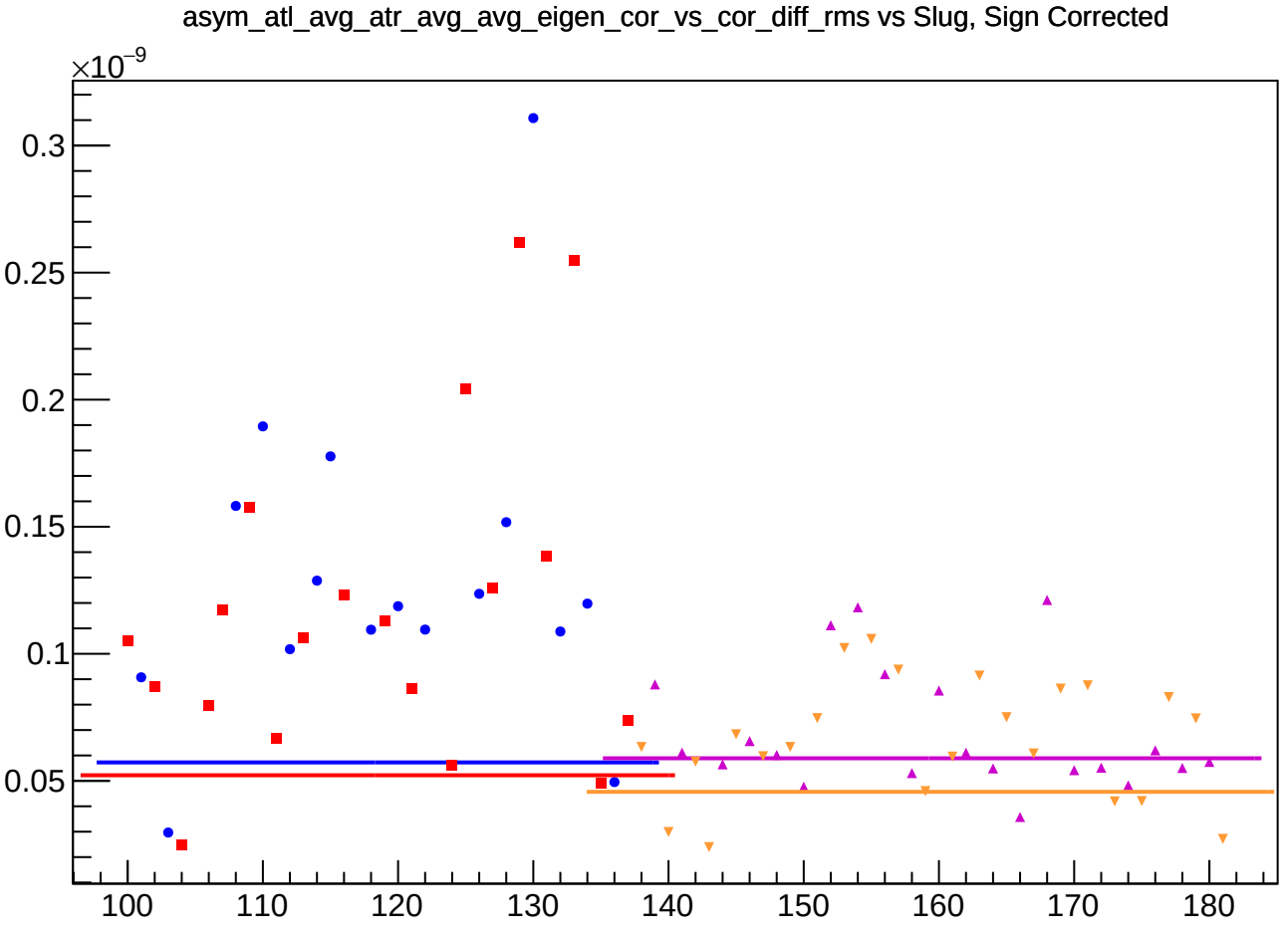
Left: -0.000+/-0.000 $\chi^2$/NDF: 40.2/43

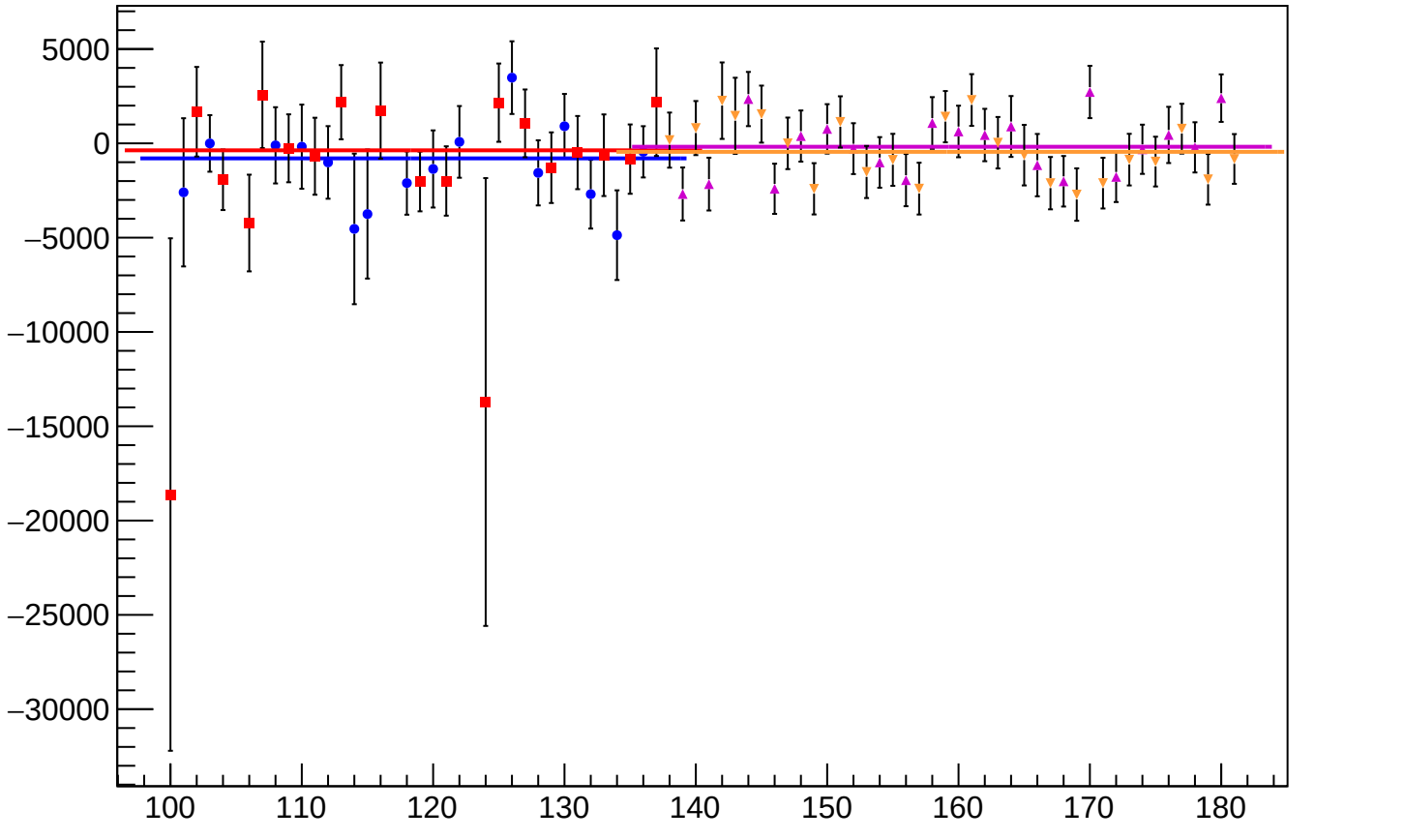
Right: -0.000+/-0.000 $\chi^2$/NDF: 35.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:40.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:34.0/41

All: -0.000+/-0.000 $\chi^2$/NDF: 75.2/78


asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2983121.7/15
Left Out: 0.000+/-0.000 χ²/NDF:4641502.2/22
Right Out: 0.000+/-0.000 χ²/NDF: 3287828.4/18
Left In: 0.000+/-0.000 χ²/NDF:1825982.2/20
Left: 0.000+/-0.000 χ²/NDF: 7120048.8/43
Right: 0.000+/-0.000 χ²/NDF: 6295515.7/34
In: 0.000+/-0.000 χ²/NDF:4812879.7/36
Out: 0.000+/-0.000 χ²/NDF:7999727.6/41
All: 0.000+/-0.000 χ²/NDF: 13455952.5/78




Right In: -797.285+/-487.453 $\chi^2$/NDF: 13.4/15

Left Out: -450.113+/-295.142 $\chi^2$/NDF:25.7/22

Right Out: -370.010+/-485.826 $\chi^2$/NDF: 15.6/18

Left In: -181.078+/-301.163 $\chi^2$/NDF:28.0/20

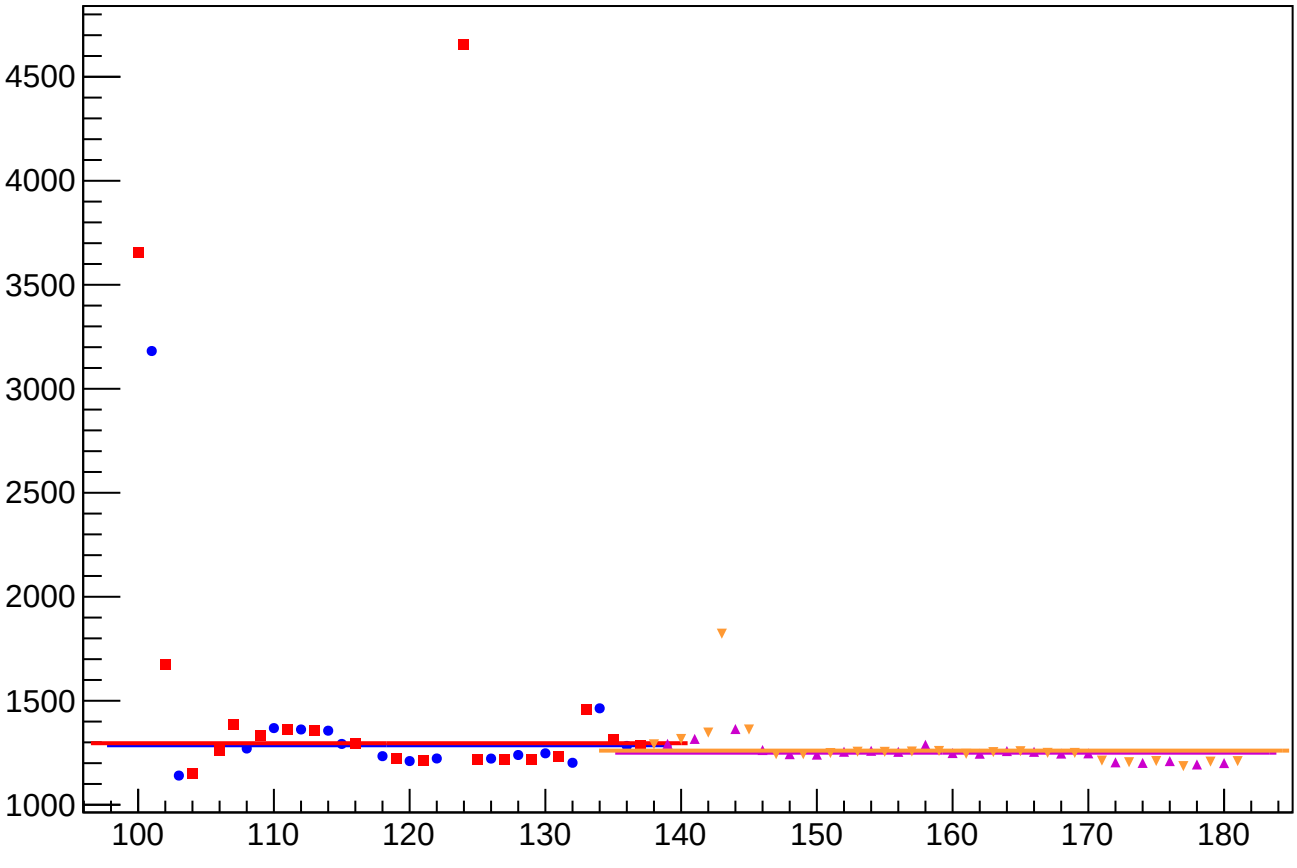
Left: -318.312+/-210.794 $\chi^2$/NDF: 54.1/43

Right: -582.933+/-344.105 $\chi^2$/NDF: 29.4/34

In: -351.312+/-256.208 $\chi^2$/NDF:42.6/36

Out: -428.520+/-252.243 $\chi^2$/NDF:41.3/41

All: -390.518+/-179.748 $\chi^2$/NDF: 83.9/78




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518126.9/15

Left Out: 1260.308+/-0.209 $\chi^2$/NDF:194520.5/22

Right Out: 1295.943+/-0.344 $\chi^2$/NDF: 328069.9/18

Left In: 1250.362+/-0.213 $\chi^2$/NDF:34431.3/20

Left: 1255.436+/-0.149 $\chi^2$/NDF: 230064.4/43

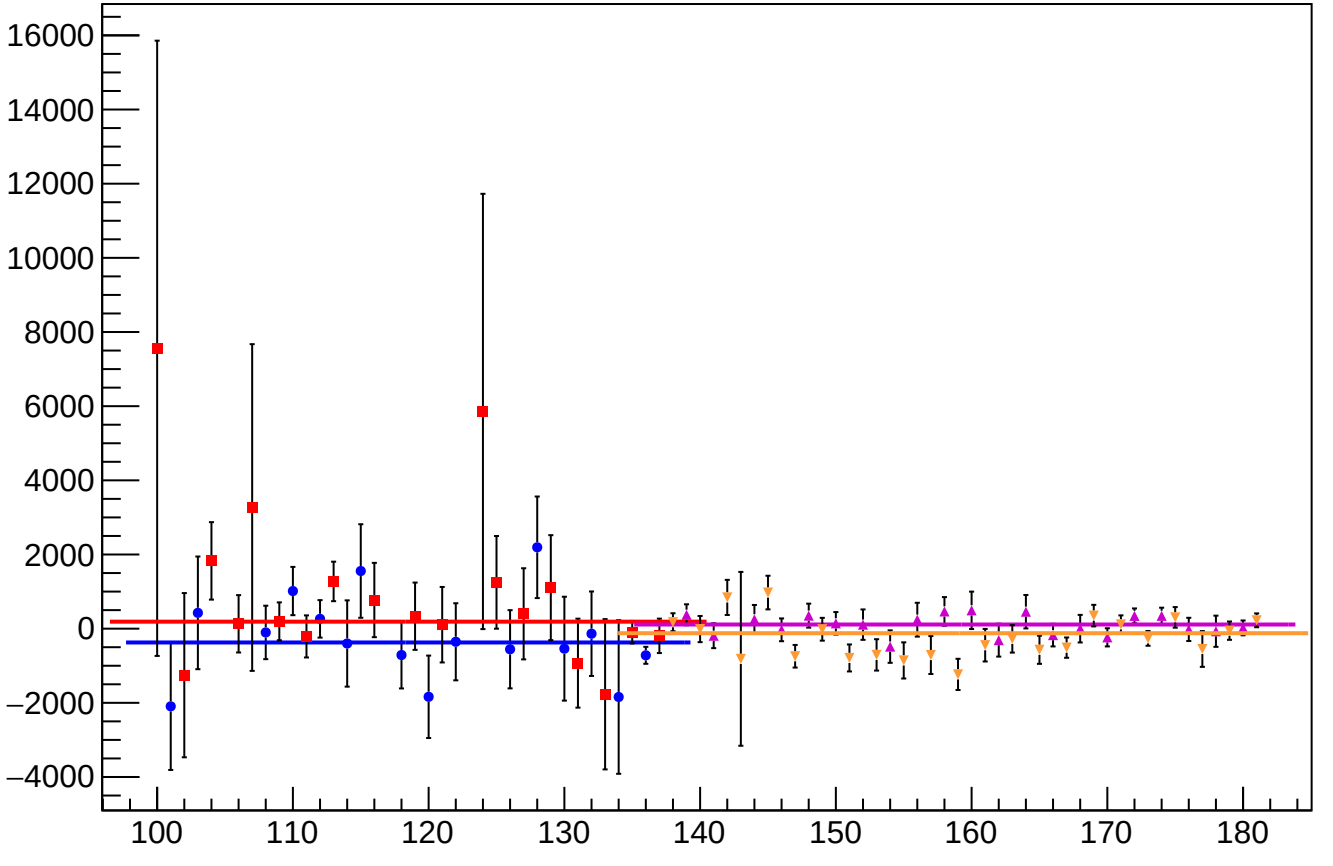
Right: 1291.036+/-0.243 $\chi^2$/NDF: 846606.2/34

In: 1260.234+/-0.181 $\chi^2$/NDF:560337.3/36

Out: 1269.914+/-0.178 $\chi^2$/NDF:530449.7/41

All: 1265.150+/-0.127 $\chi^2$/NDF: 1092236.8/78

asym_atl_avg_atr_avg_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -372.325+/-168.204 $\chi^2$/NDF: 18.2/15

Left Out: -122.476+/-65.651 $\chi^2$/NDF:46.7/22

Right Out: 188.945+/-169.575 $\chi^2$/NDF: 14.6/18

Left In: 112.029+/-67.902 $\chi^2$/NDF:13.5/20

Left: -9.175+/-47.198 $\chi^2$/NDF: 66.3/43

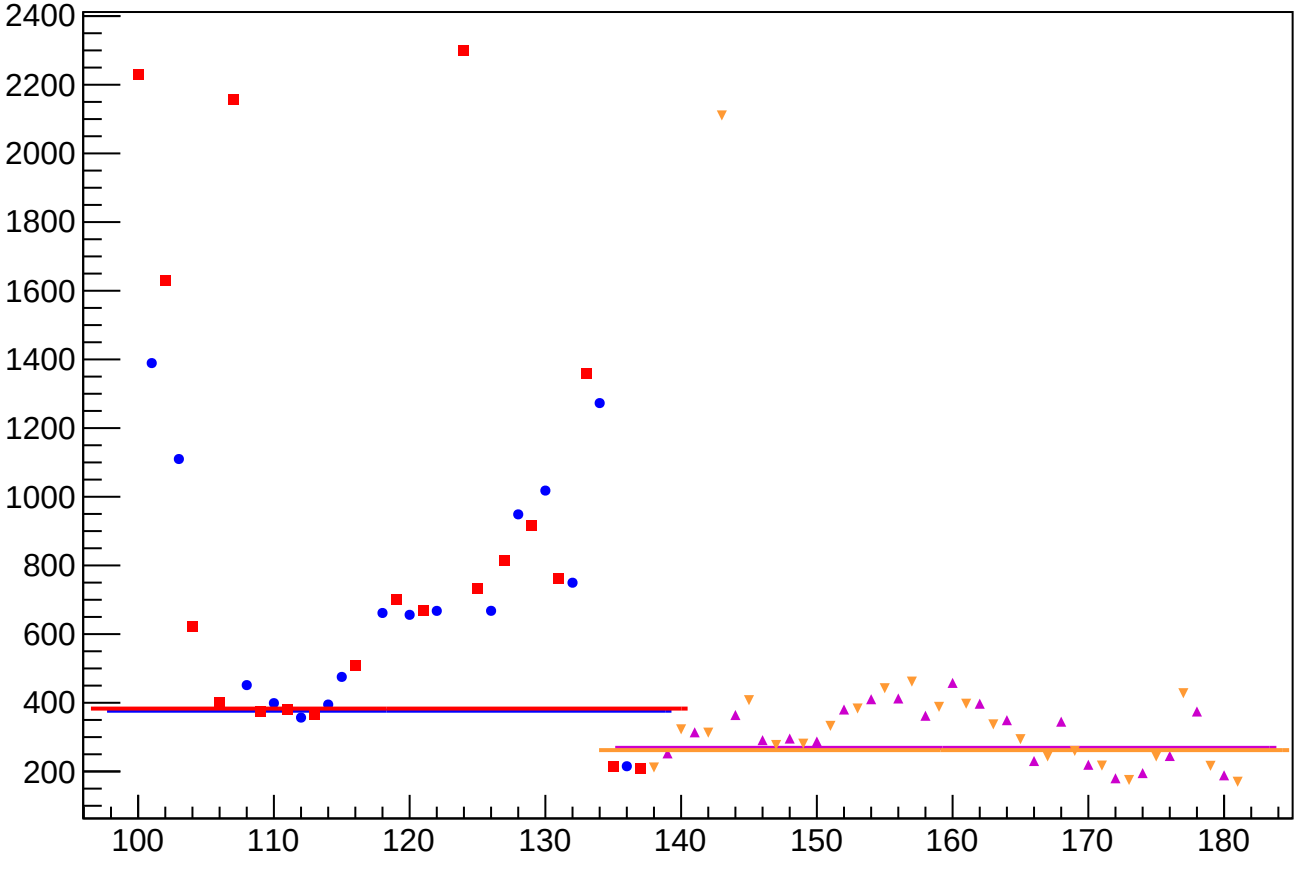
Right: -93.969+/-119.420 $\chi^2$/NDF: 38.3/34

In: 44.157+/-62.965 $\chi^2$/NDF:38.7/36

Out: -81.884+/-61.223 $\chi^2$/NDF:64.3/41

All: -20.631+/-43.894 $\chi^2$/NDF: 105.1/78

asym_atl_avg_atr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 376.893+/-0.119 $\chi^2$/NDF: 4190194.7/15

Left Out: 262.119+/-0.046 $\chi^2$/NDF:4172625.8/22

Right Out: 383.074+/-0.120 $\chi^2$/NDF: 4054121.5/18

Left In: 268.718+/-0.048 $\chi^2$/NDF:2652731.8/20

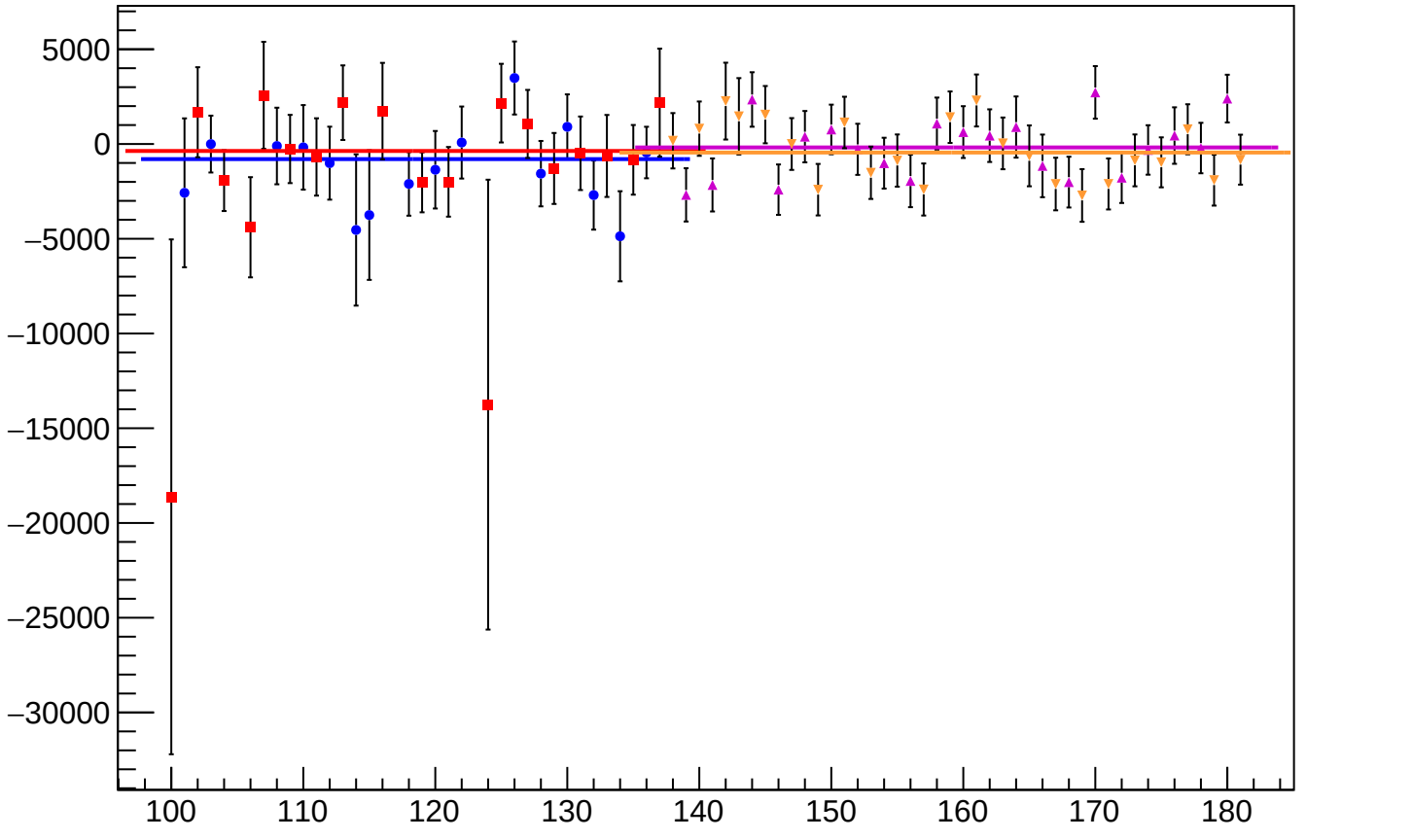
Left: 265.307+/-0.033 $\chi^2$/NDF: 6835118.8/43

Right: 379.958+/-0.084 $\chi^2$/NDF: 8245655.7/34

In: 283.876+/-0.045 $\chi^2$/NDF:7554214.4/36

Out: 277.885+/-0.043 $\chi^2$/NDF:9111648.3/41

All: 280.797+/-0.031 $\chi^2$/NDF: 16675169.2/78




Right In: -796.883+/-487.454 $\chi^2$/NDF: 13.4/15

Left Out: -450.066+/-295.142 $\chi^2$/NDF:25.7/22

Right Out: -367.476+/-486.348 $\chi^2$/NDF: 15.7/18

Left In: -181.049+/-301.163 $\chi^2$/NDF:28.0/20

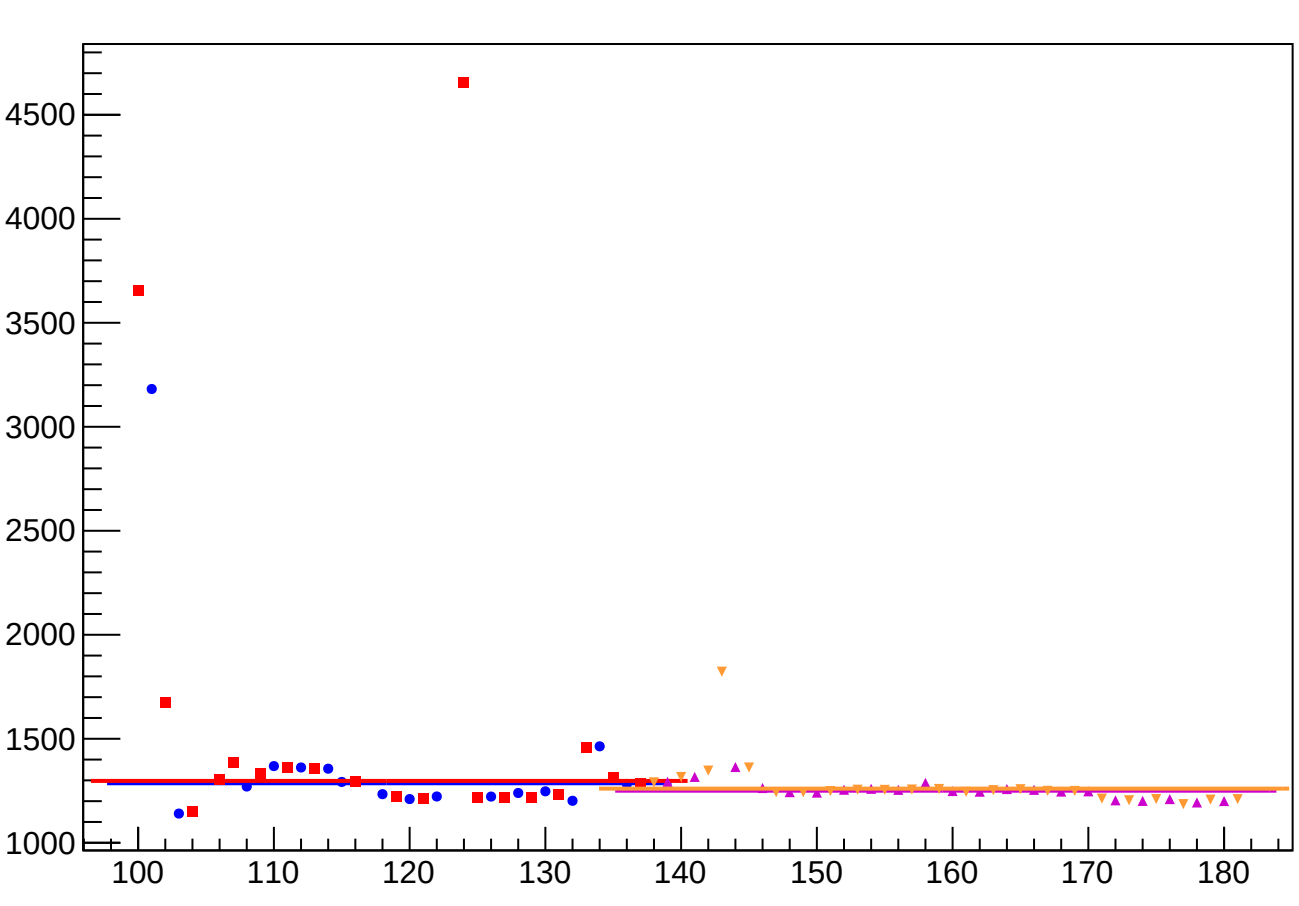
Left: -318.274+/-210.794 $\chi^2$/NDF: 54.1/43

Right: -581.692+/-344.290 $\chi^2$/NDF: 29.5/34

In: -351.180+/-256.208 $\chi^2$/NDF:42.6/36

Out: -427.837+/-252.316 $\chi^2$/NDF:41.4/41

All: -390.095+/-179.775 $\chi^2$/NDF: 84.0/78




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1260.308+/-0.209 $\chi^2$/NDF:194520.4/22

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1250.362+/-0.213 $\chi^2$/NDF:34431.2/20

Left: 1255.436+/-0.149 $\chi^2$/NDF: 230064.4/43

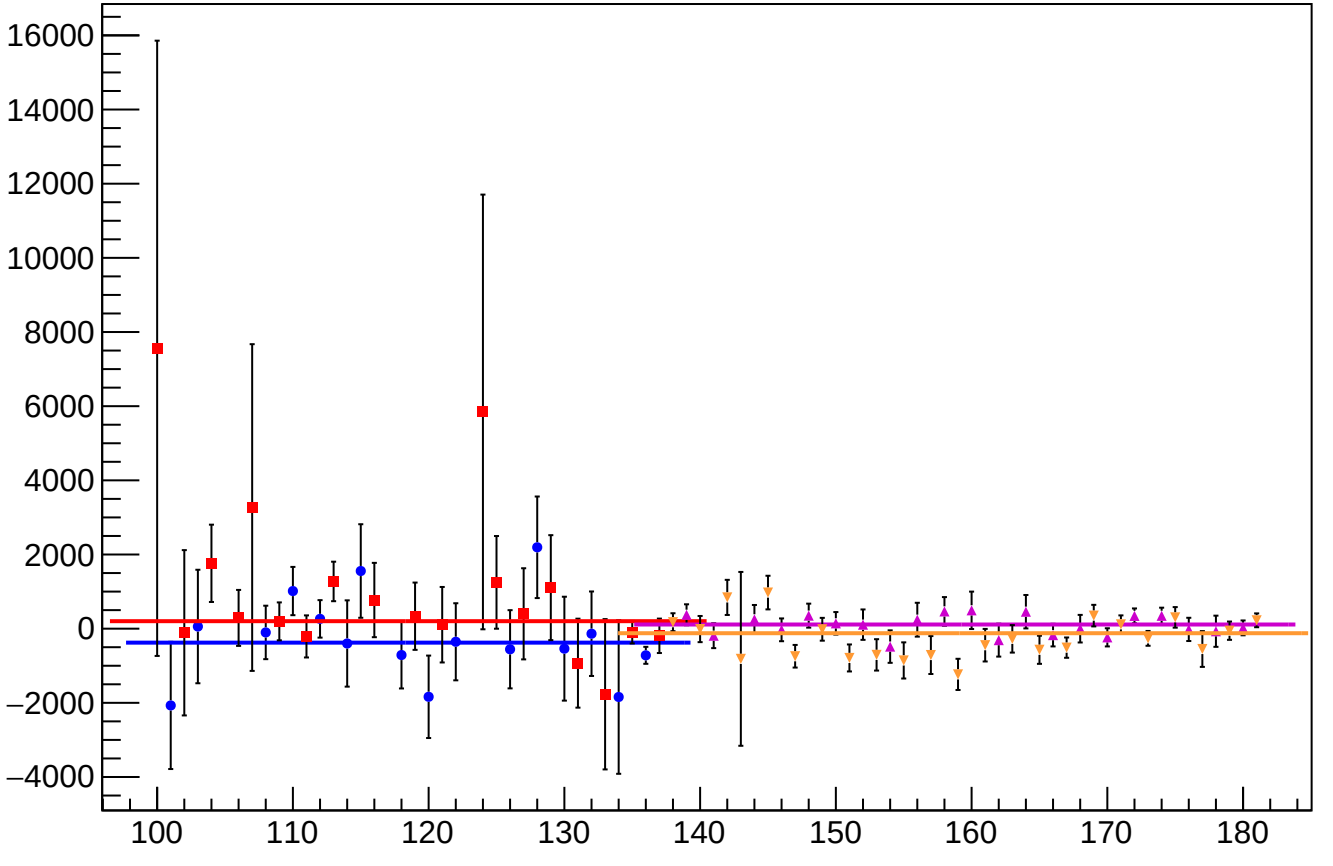
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1260.234+/-0.181 $\chi^2$/NDF:560338.6/36

Out: 1270.290+/-0.178 $\chi^2$/NDF:530761.3/41

All: 1265.339+/-0.127 $\chi^2$/NDF: 1092663.9/78

asym_atl_avg_atr_avg_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: -122.454+/-65.652 $\chi^2$/NDF:46.7/22

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 112.147+/-67.904 $\chi^2$/NDF:13.4/20

Left: -9.108+/-47.199 $\chi^2$/NDF: 66.3/43

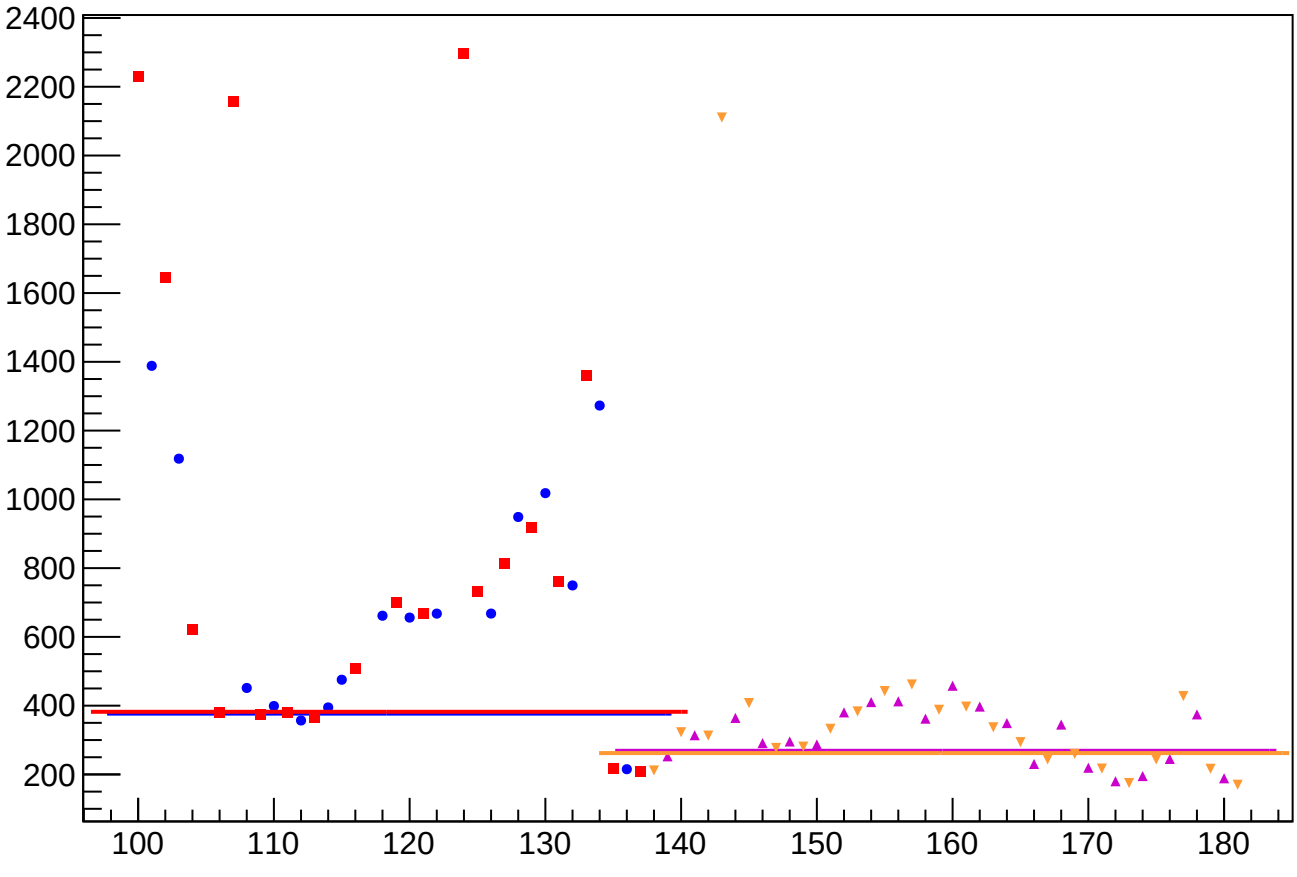
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: 43.647+/-62.967 $\chi^2$/NDF:38.6/36

Out: -80.056+/-61.214 $\chi^2$/NDF:64.0/41

All: -19.951+/-43.892 $\chi^2$/NDF: 104.6/78

asym_atl_avg_atr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 262.125+/-0.046 $\chi^2$/NDF:4172619.8/22

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 268.727+/-0.048 $\chi^2$/NDF:2652422.5/20

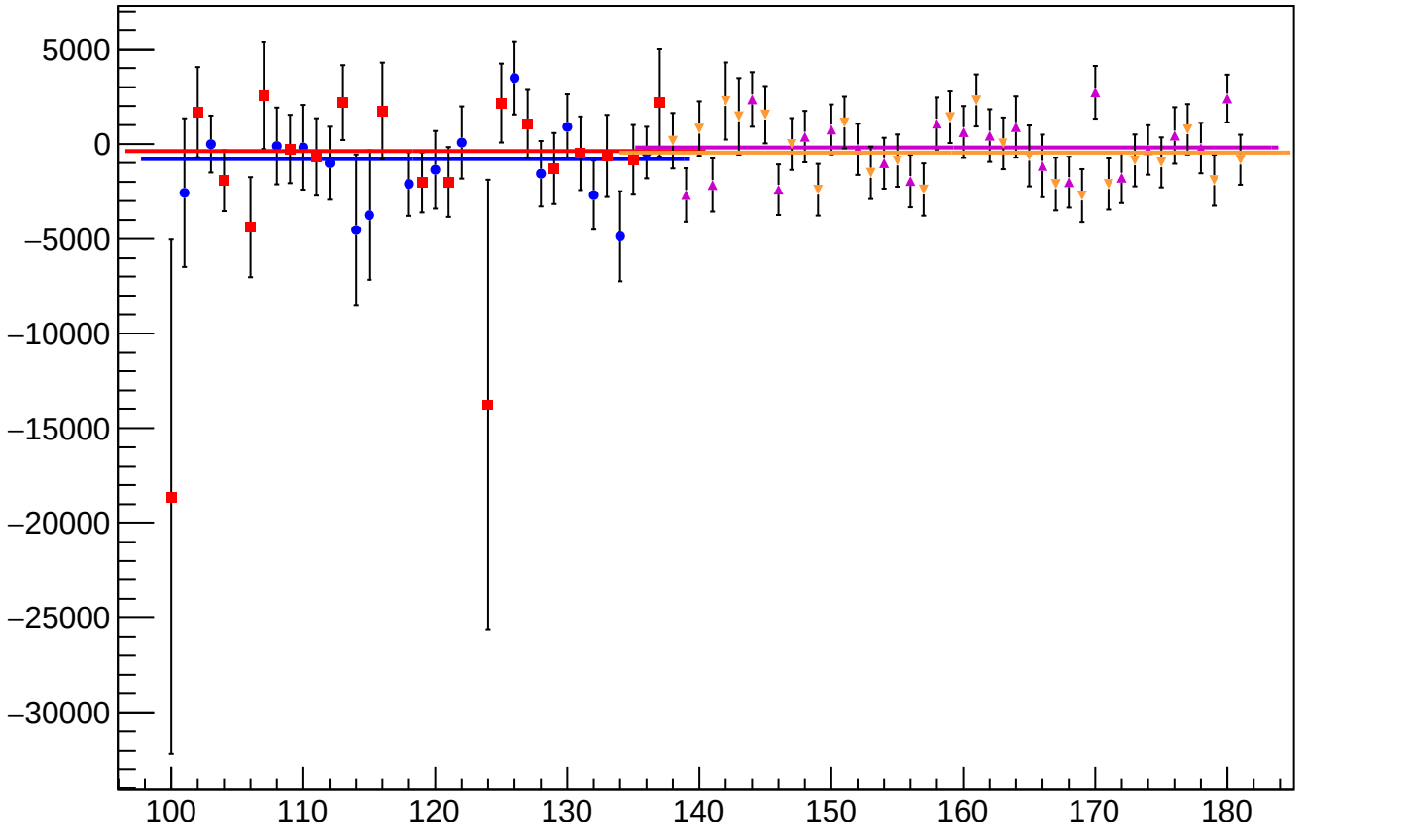
Left: 265.314+/-0.033 $\chi^2$/NDF: 6834813.6/43

Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 283.880+/-0.045 $\chi^2$/NDF:7556658.1/36

Out: 277.800+/-0.043 $\chi^2$/NDF:9105140.5/41

All: 280.754+/-0.031 $\chi^2$/NDF: 16671385.5/78




Right In: -796.883+/-487.454 $\chi^2$/NDF: 13.4/15

Left Out: -450.066+/-295.142 $\chi^2$/NDF:25.7/22

Right Out: -367.476+/-486.348 $\chi^2$/NDF: 15.7/18

Left In: -181.049+/-301.163 $\chi^2$/NDF:28.0/20

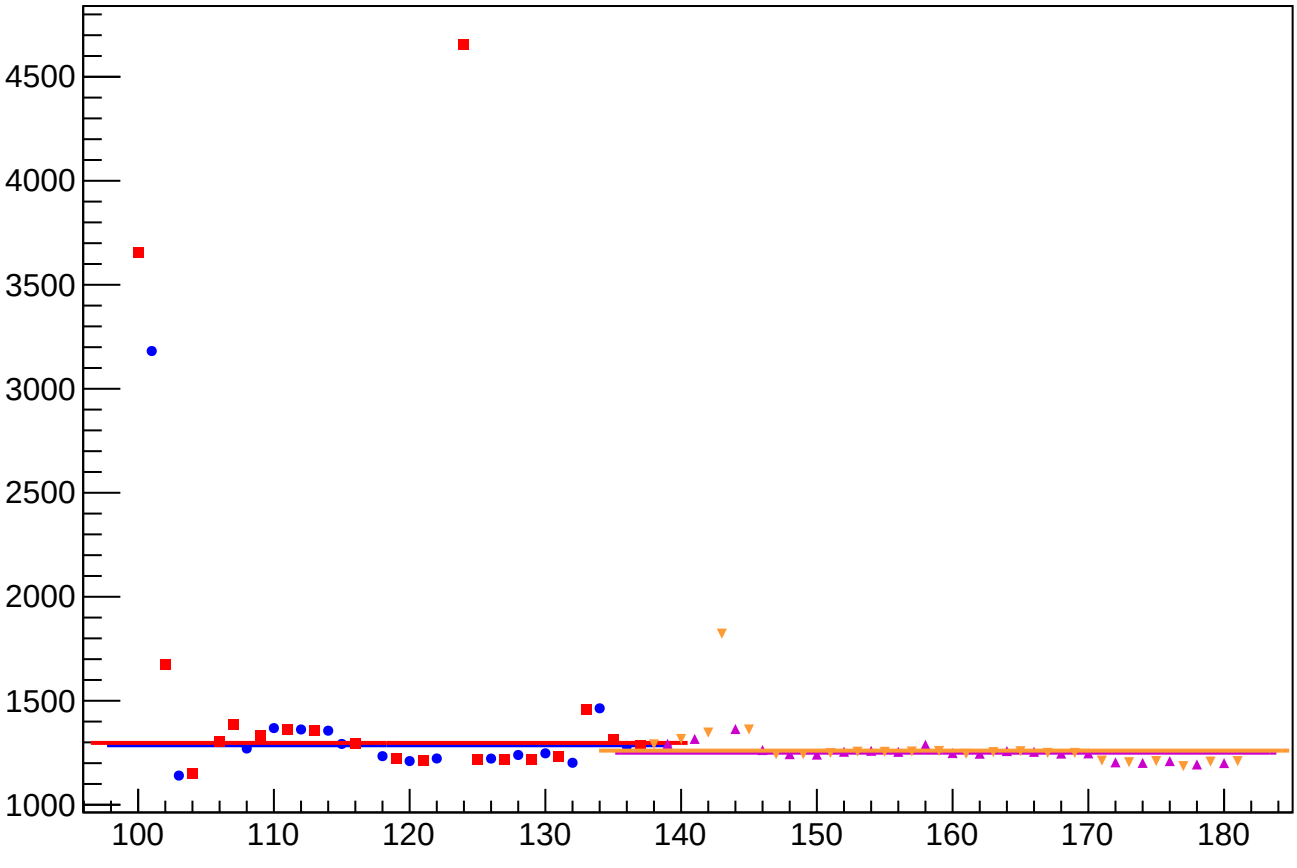
Left: -318.274+/-210.794 $\chi^2$/NDF: 54.1/43

Right: -581.692+/-344.290 $\chi^2$/NDF: 29.5/34

In: -351.180+/-256.208 $\chi^2$/NDF:42.6/36

Out: -427.837+/-252.316 $\chi^2$/NDF:41.4/41

All: -390.095+/-179.775 $\chi^2$/NDF: 84.0/78




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1260.308+/-0.209 $\chi^2$/NDF:194520.4/22

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1250.362+/-0.213 $\chi^2$/NDF:34431.2/20

Left: 1255.436+/-0.149 $\chi^2$/NDF: 230064.4/43

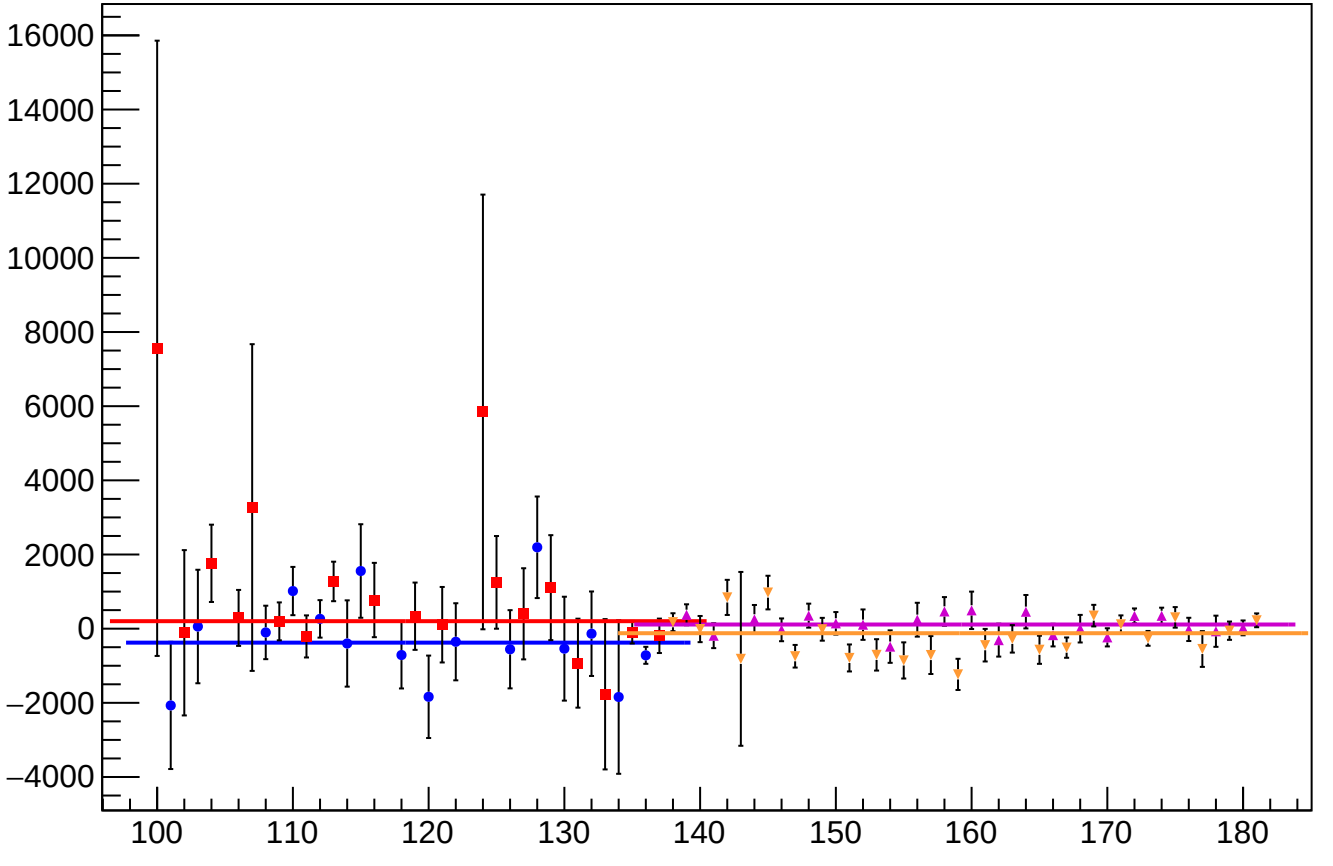
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1260.234+/-0.181 $\chi^2$/NDF:560338.6/36

Out: 1270.290+/-0.178 $\chi^2$/NDF:530761.3/41

All: 1265.339+/-0.127 $\chi^2$/NDF: 1092663.9/78

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: -122.454+/-65.652 $\chi^2$/NDF:46.7/22

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 112.147+/-67.904 $\chi^2$/NDF:13.4/20

Left: -9.108+/-47.199 $\chi^2$/NDF: 66.3/43

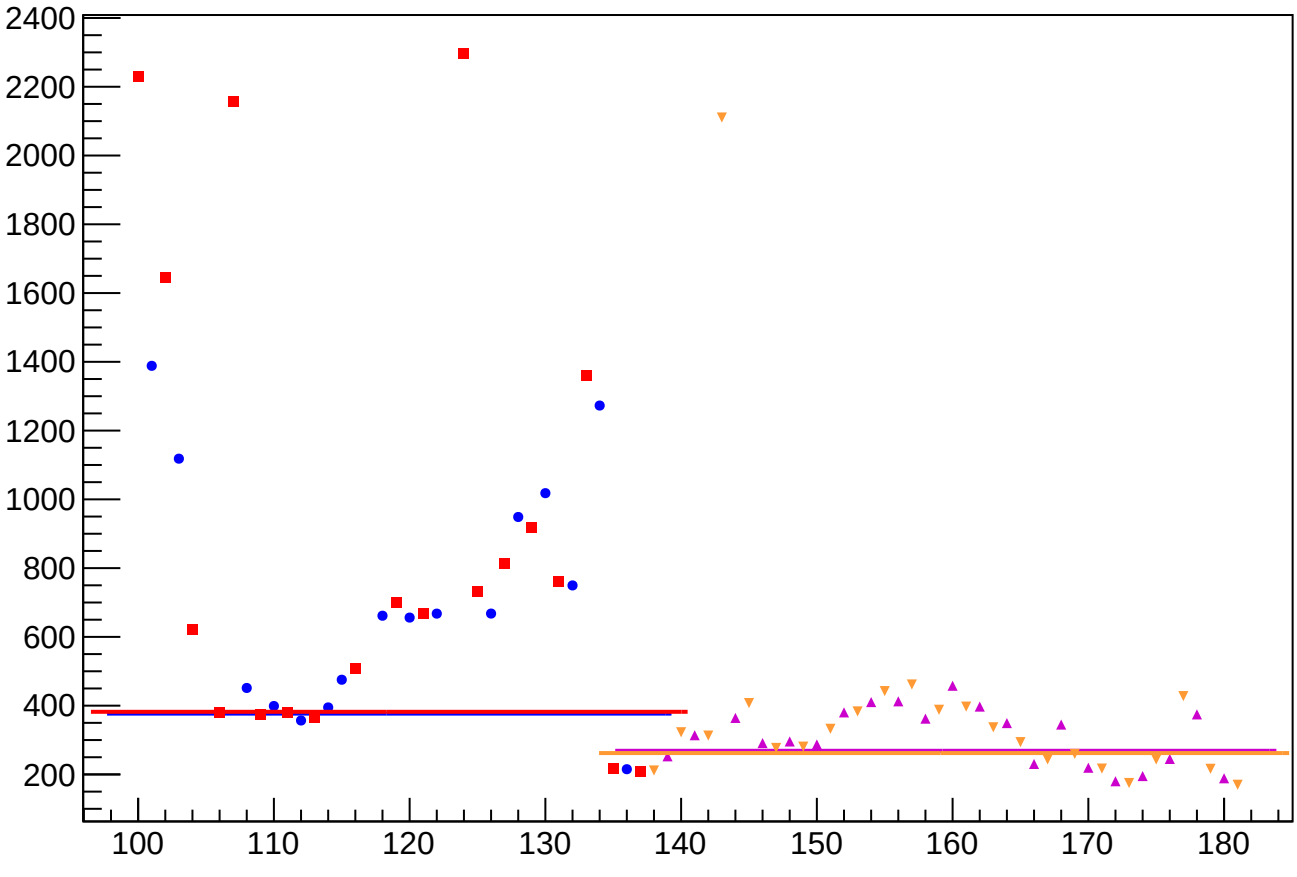
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: 43.647+/-62.967 $\chi^2$/NDF:38.6/36

Out: -80.056+/-61.214 $\chi^2$/NDF:64.0/41

All: -19.951+/-43.892 $\chi^2$/NDF: 104.6/78

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 262.125+/-0.046 $\chi^2$/NDF:4172619.8/22

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 268.727+/-0.048 $\chi^2$/NDF:2652422.5/20

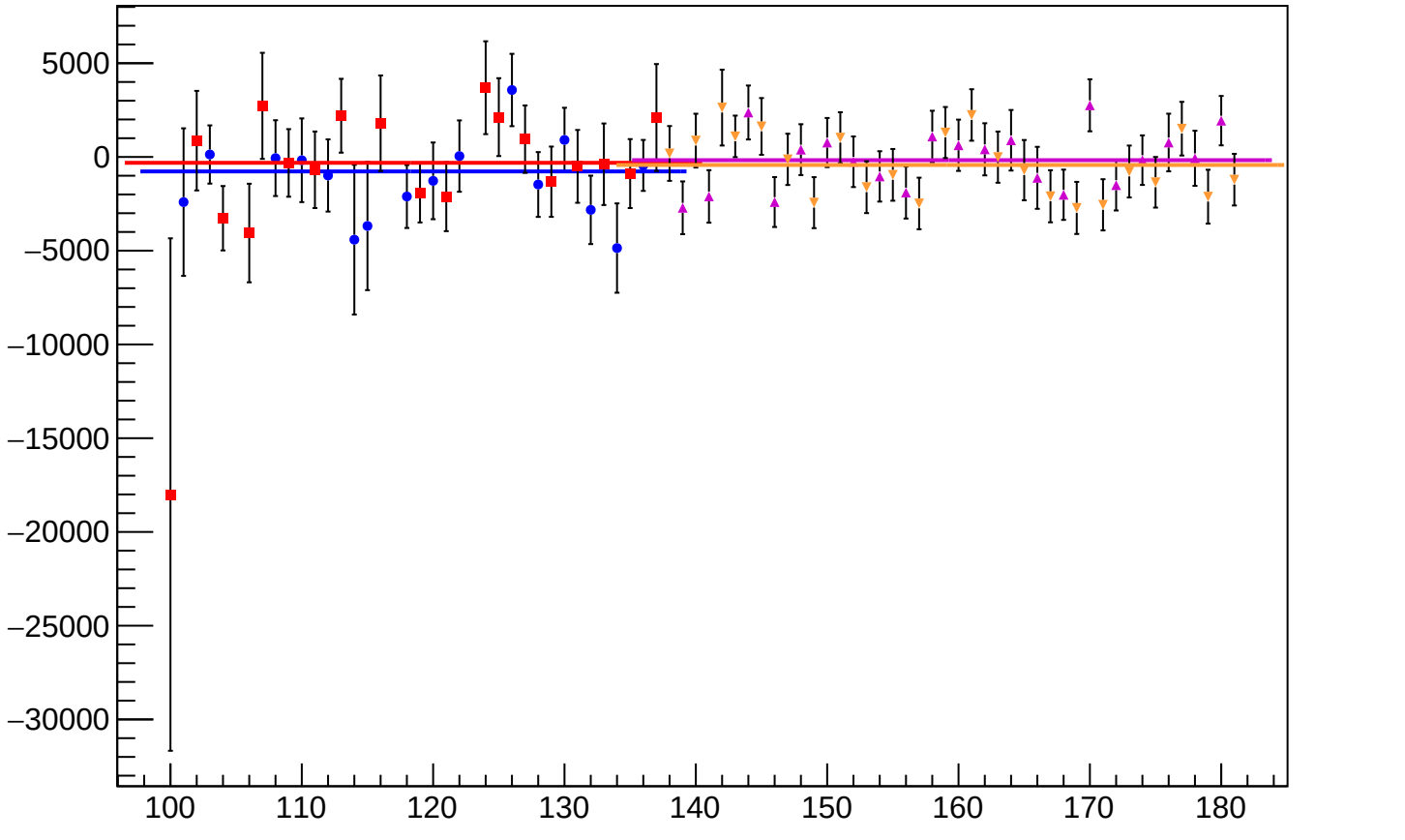
Left: 265.314+/-0.033 $\chi^2$/NDF: 6834813.6/43

Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 283.880+/-0.045 $\chi^2$/NDF:7556658.1/36

Out: 277.800+/-0.043 $\chi^2$/NDF:9105140.5/41

All: 280.754+/-0.031 $\chi^2$/NDF: 16671385.5/78




Right In: -771.499+/-489.602 $\chi^2$/NDF: 13.6/15

Left Out: -427.671+/-291.318 $\chi^2$/NDF:29.7/22

Right Out: -311.418+/-482.642 $\chi^2$/NDF: 17.9/18

Left In: -170.087+/-304.260 $\chi^2$/NDF:26.1/20

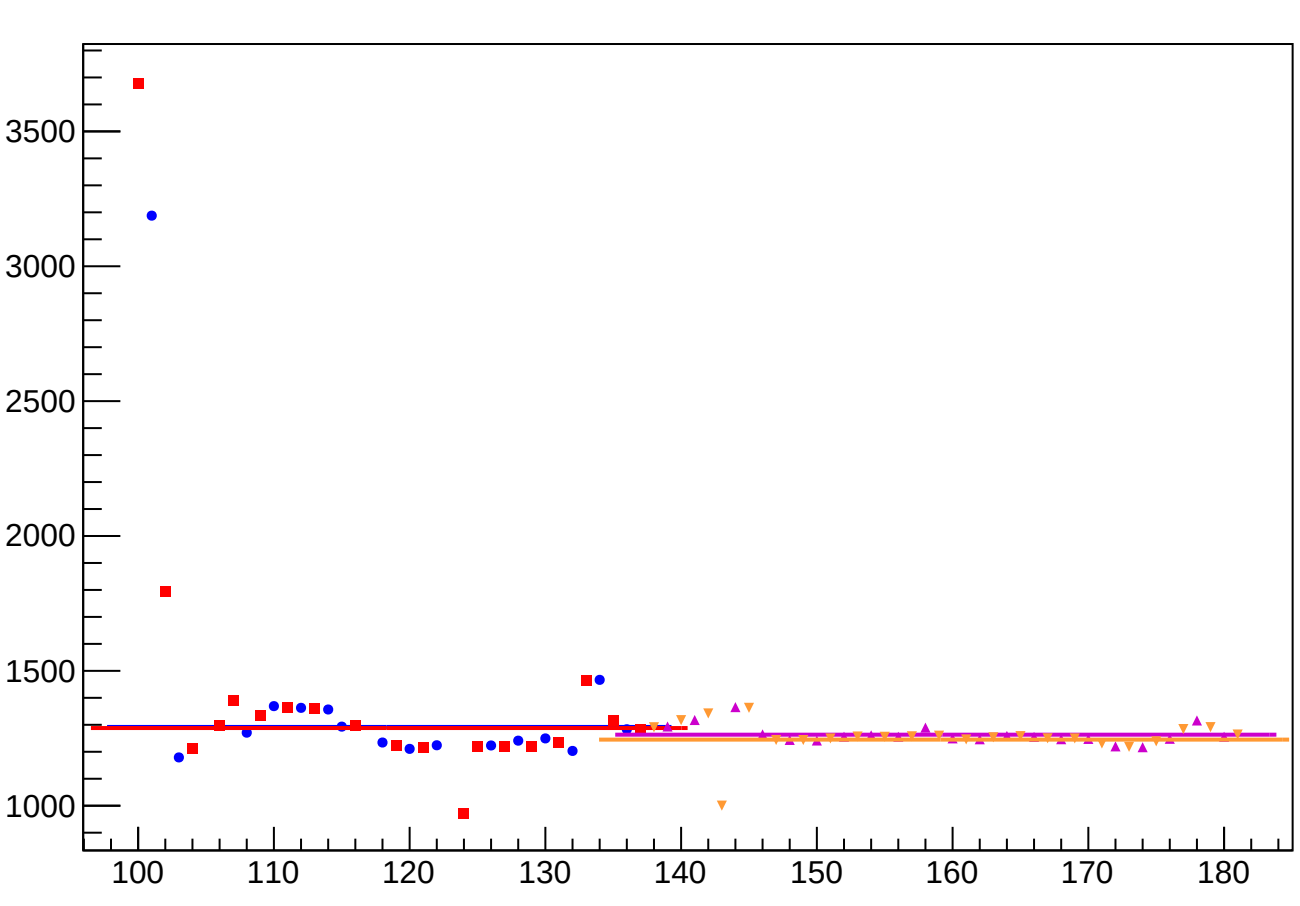
Left: -304.474+/-210.419 $\chi^2$/NDF: 56.2/43

Right: -538.165+/-343.714 $\chi^2$/NDF: 32.0/34

In: -337.640+/-258.424 $\chi^2$/NDF:40.8/36

Out: -396.627+/-249.407 $\chi^2$/NDF:47.7/41

All: -368.180+/-179.461 $\chi^2$/NDF: 88.5/78




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.3/15

Left Out: 1245.065+/-0.206 $\chi^2$/NDF:127405.0/22

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209208.8/18

Left In: 1263.353+/-0.215 $\chi^2$/NDF:24326.9/20

Left: 1253.812+/-0.149 $\chi^2$/NDF: 155501.5/43

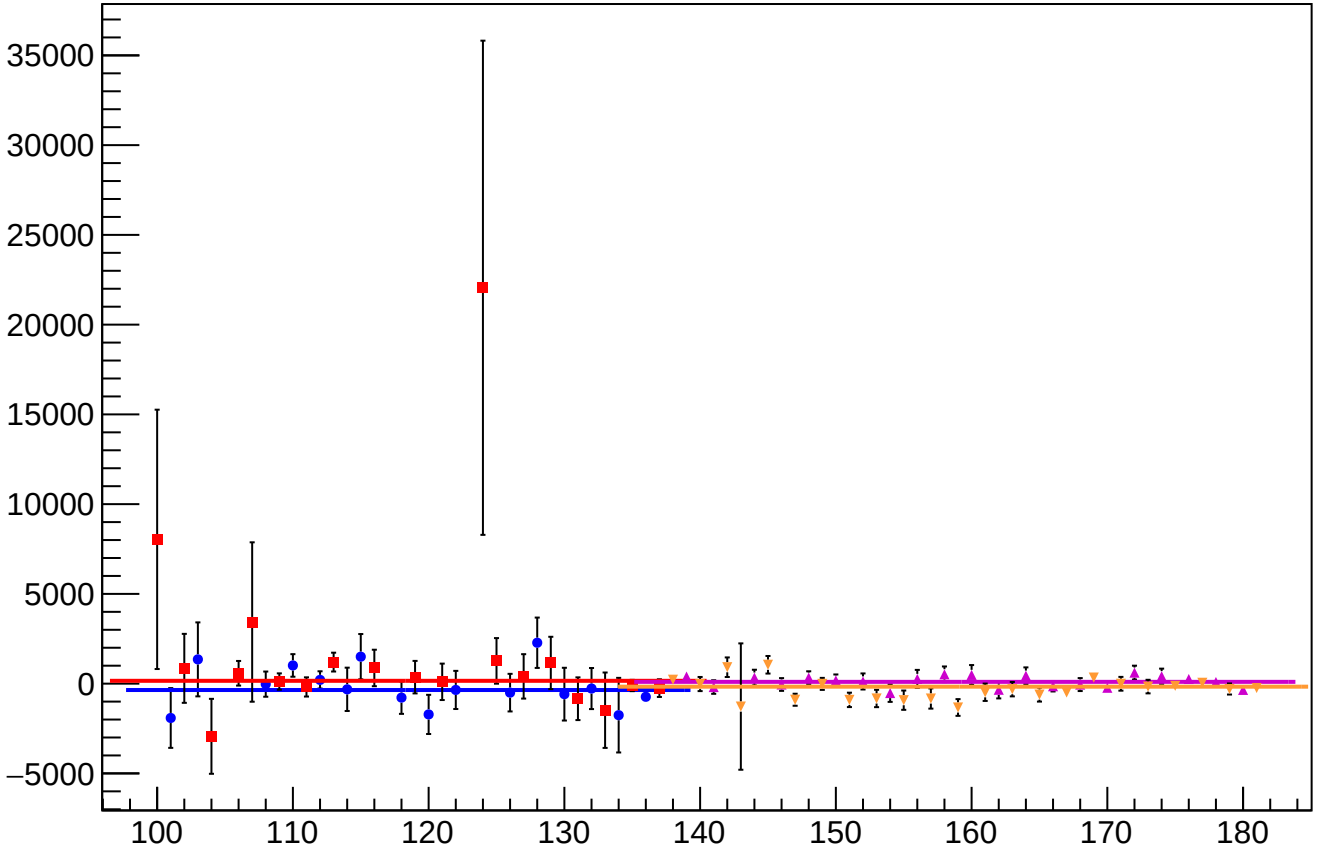
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.5/34

In: 1271.345+/-0.183 $\chi^2$/NDF:538685.7/36

Out: 1256.527+/-0.176 $\chi^2$/NDF:348208.1/41

All: 1263.673+/-0.127 $\chi^2$/NDF: 890298.1/78

asym_atl_avg_atr_avg_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: -355.226+/-169.971 $\chi^2$/NDF: 18.4/15

Left Out: -168.765+/-65.544 $\chi^2$/NDF:41.8/22

Right Out: 157.924+/-169.665 $\chi^2$/NDF: 15.8/18

Left In: 99.779+/-70.880 $\chi^2$/NDF:16.2/20

Left: -44.980+/-48.122 $\chi^2$/NDF: 65.8/43

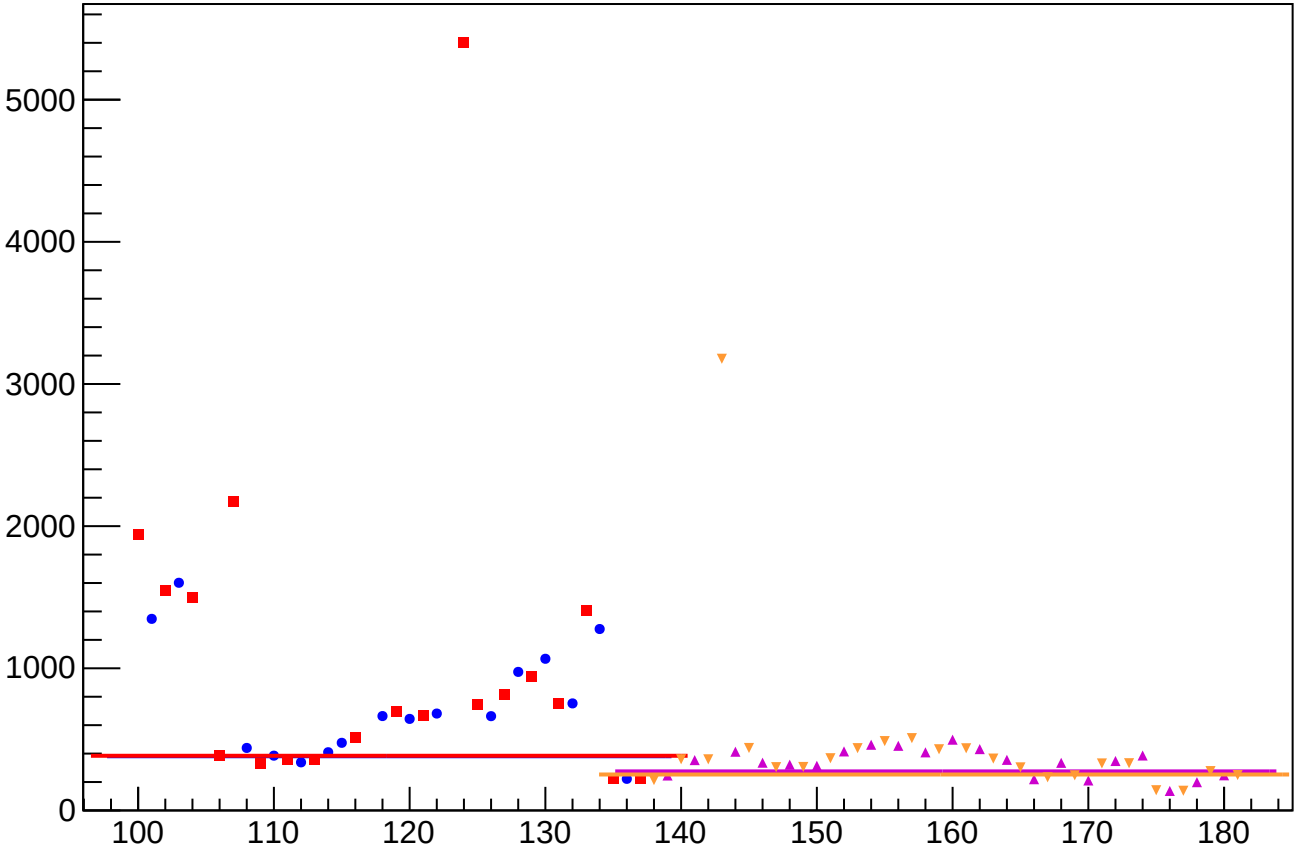
Right: -98.189+/-120.079 $\chi^2$/NDF: 38.8/34

In: 32.376+/-65.419 $\chi^2$/NDF:40.8/36

Out: -126.342+/-61.140 $\chi^2$/NDF:60.9/41

All: -52.343+/-44.669 $\chi^2$/NDF: 104.8/78

asym_atl_avg_atr_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 381.349+/-0.120 $\chi^2$/NDF: 4317922.6/15

Left Out: 253.005+/-0.046 $\chi^2$/NDF:6290402.9/22

Right Out: 384.651+/-0.120 $\chi^2$/NDF: 4560208.6/18

Left In: 274.828+/-0.050 $\chi^2$/NDF:4012127.0/20

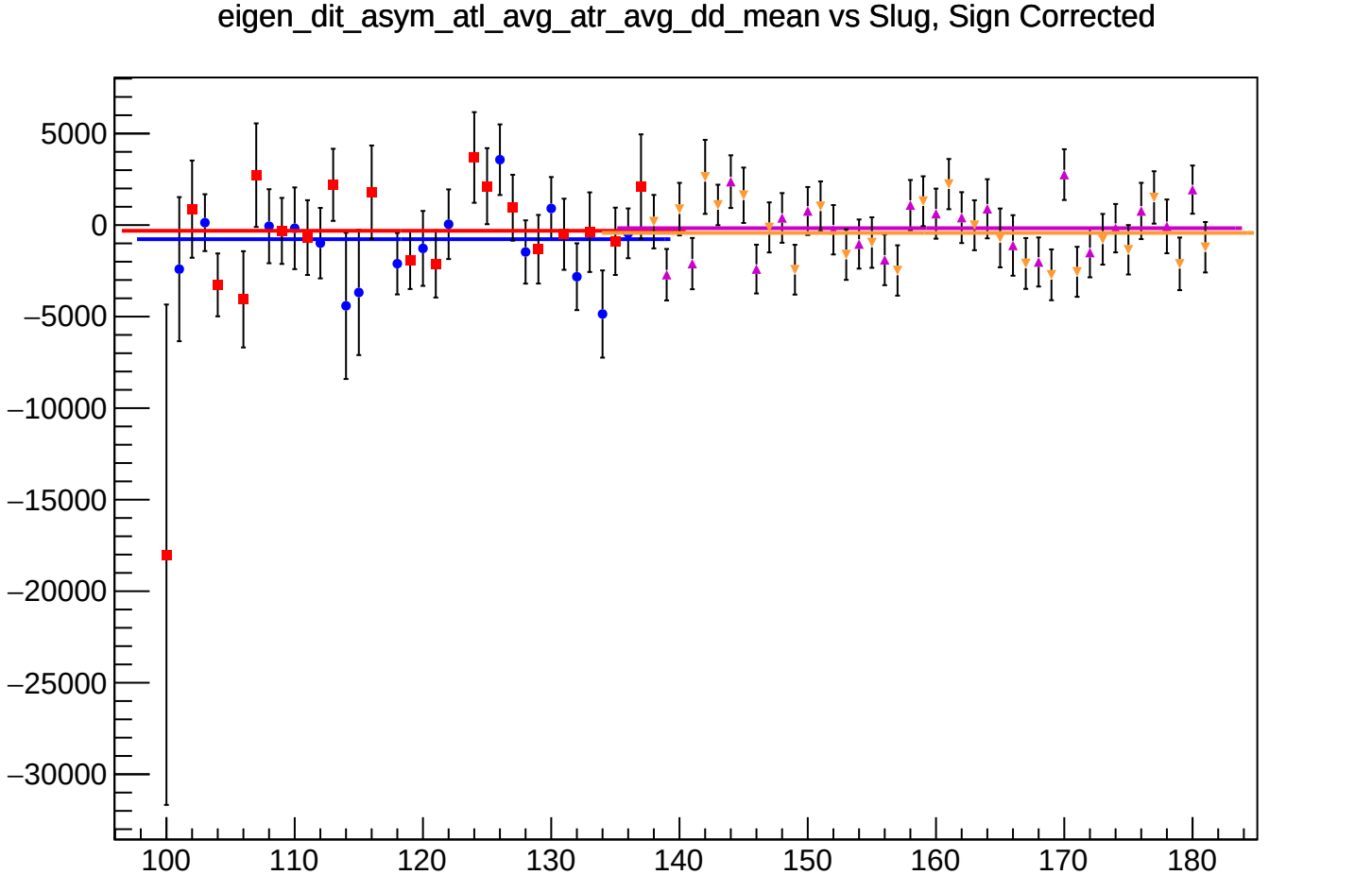
Left: 263.064+/-0.034 $\chi^2$/NDF: 10404724.7/43

Right: 383.003+/-0.085 $\chi^2$/NDF: 8878509.2/34

In: 290.607+/-0.046 $\chi^2$/NDF:8999204.6/36

Out: 270.100+/-0.043 $\chi^2$/NDF:11898344.3/41

All: 279.661+/-0.032 $\chi^2$/NDF: 21002451.1/78




Right In: -771.501+/-489.602 $\chi^2$/NDF: 13.6/15

Left Out: -427.670+/-291.318 $\chi^2$/NDF:29.7/22

Right Out: -311.419+/-482.642 $\chi^2$/NDF: 17.9/18

Left In: -170.087+/-304.260 $\chi^2$/NDF:26.1/20

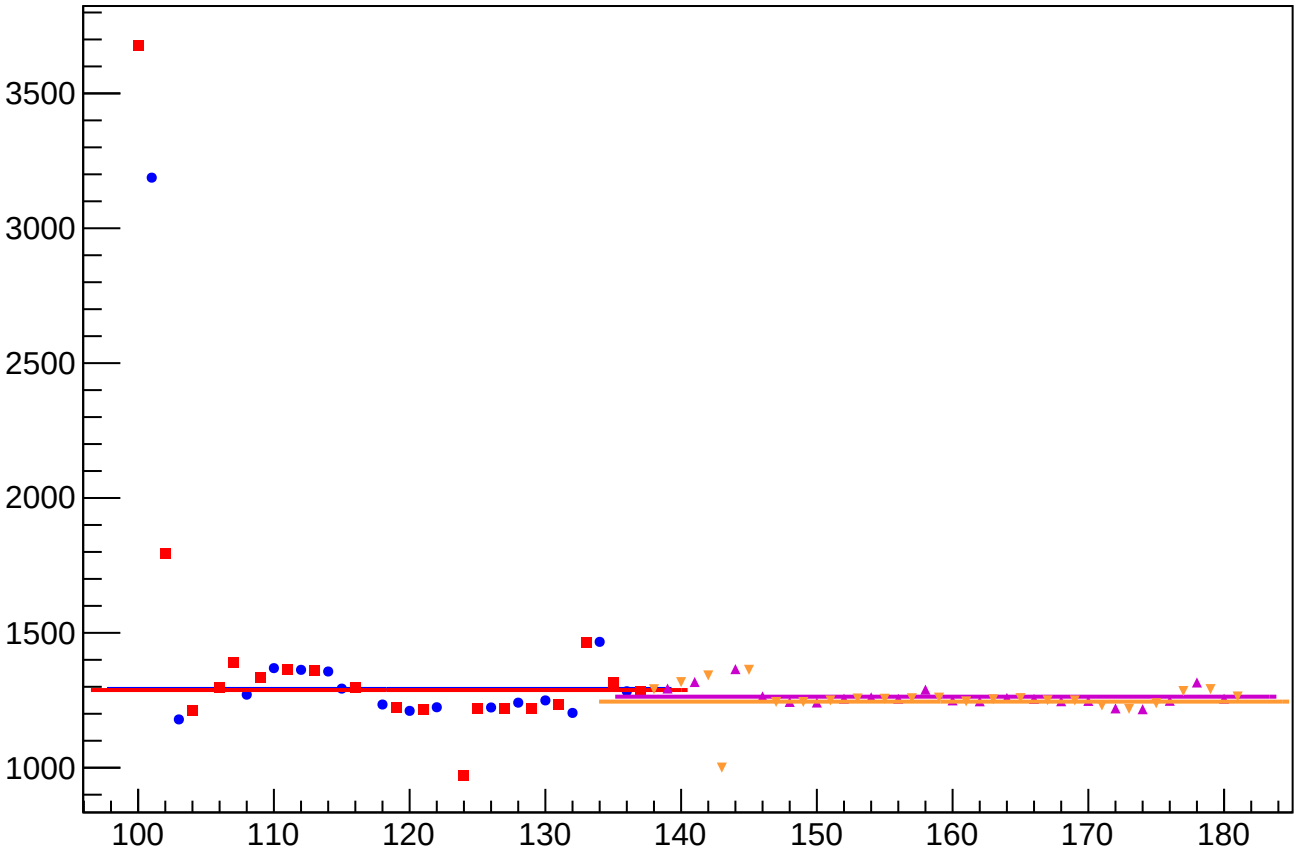
Left: -304.473+/-210.419 $\chi^2$/NDF: 56.2/43

Right: -538.167+/-343.714 $\chi^2$/NDF: 32.0/34

In: -337.640+/-258.424 $\chi^2$/NDF:40.8/36

Out: -396.627+/-249.407 $\chi^2$/NDF:47.7/41

All: -368.181+/-179.461 $\chi^2$/NDF: 88.5/78




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.2/15

Left Out: 1245.065+/-0.206 $\chi^2$/NDF:127404.1/22

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209209.1/18

Left In: 1263.353+/-0.215 $\chi^2$/NDF:24327.0/20

Left: 1253.812+/-0.149 $\chi^2$/NDF: 155500.7/43

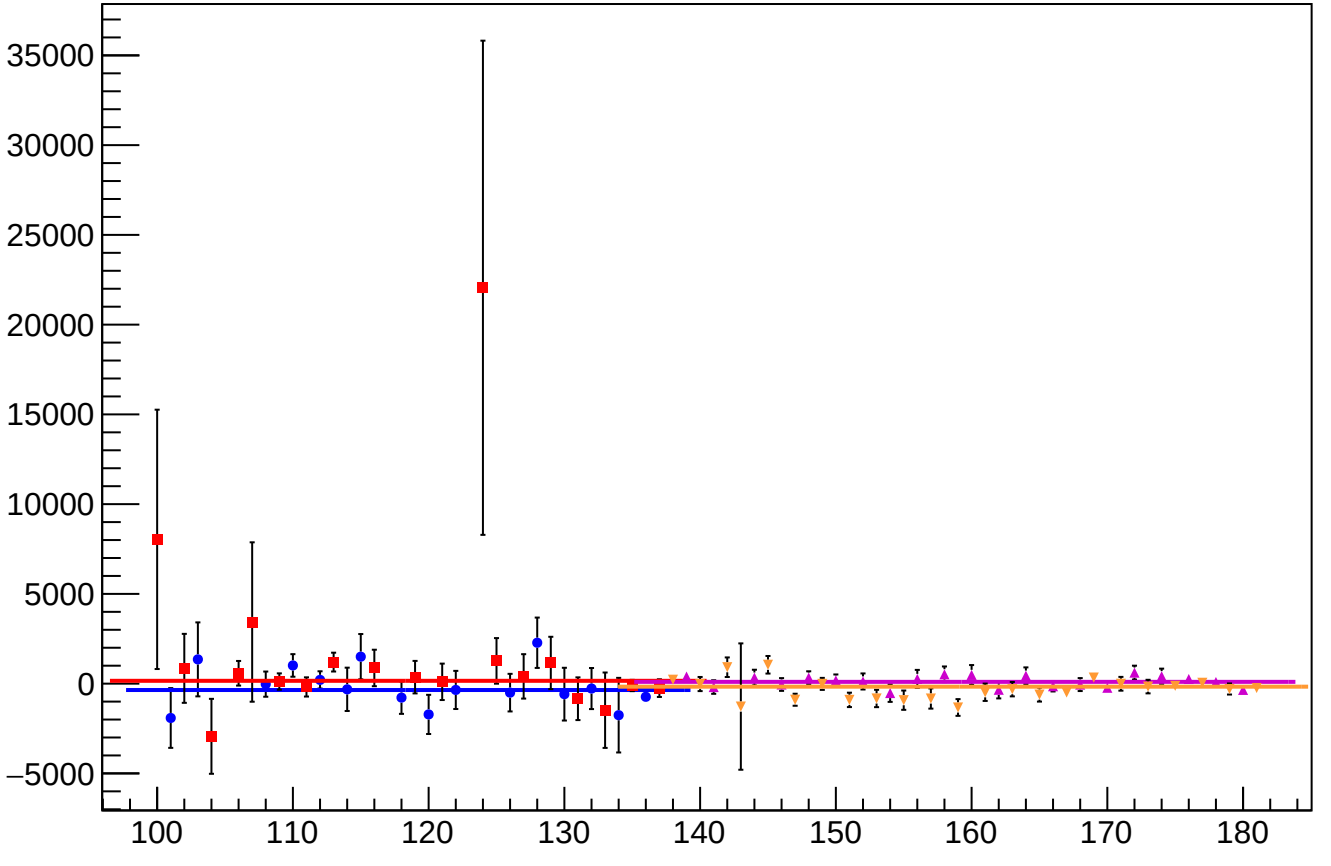
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.7/34

In: 1271.344+/-0.183 $\chi^2$/NDF:538685.8/36

Out: 1256.527+/-0.176 $\chi^2$/NDF:348207.5/41

All: 1263.673+/-0.127 $\chi^2$/NDF: 890297.5/78

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -355.226+/-169.973 $\chi^2$/NDF: 18.4/15

Left Out: -168.769+/-65.544 $\chi^2$/NDF:41.8/22

Right Out: 157.929+/-169.667 $\chi^2$/NDF: 15.8/18

Left In: 99.778+/-70.880 $\chi^2$/NDF:16.2/20

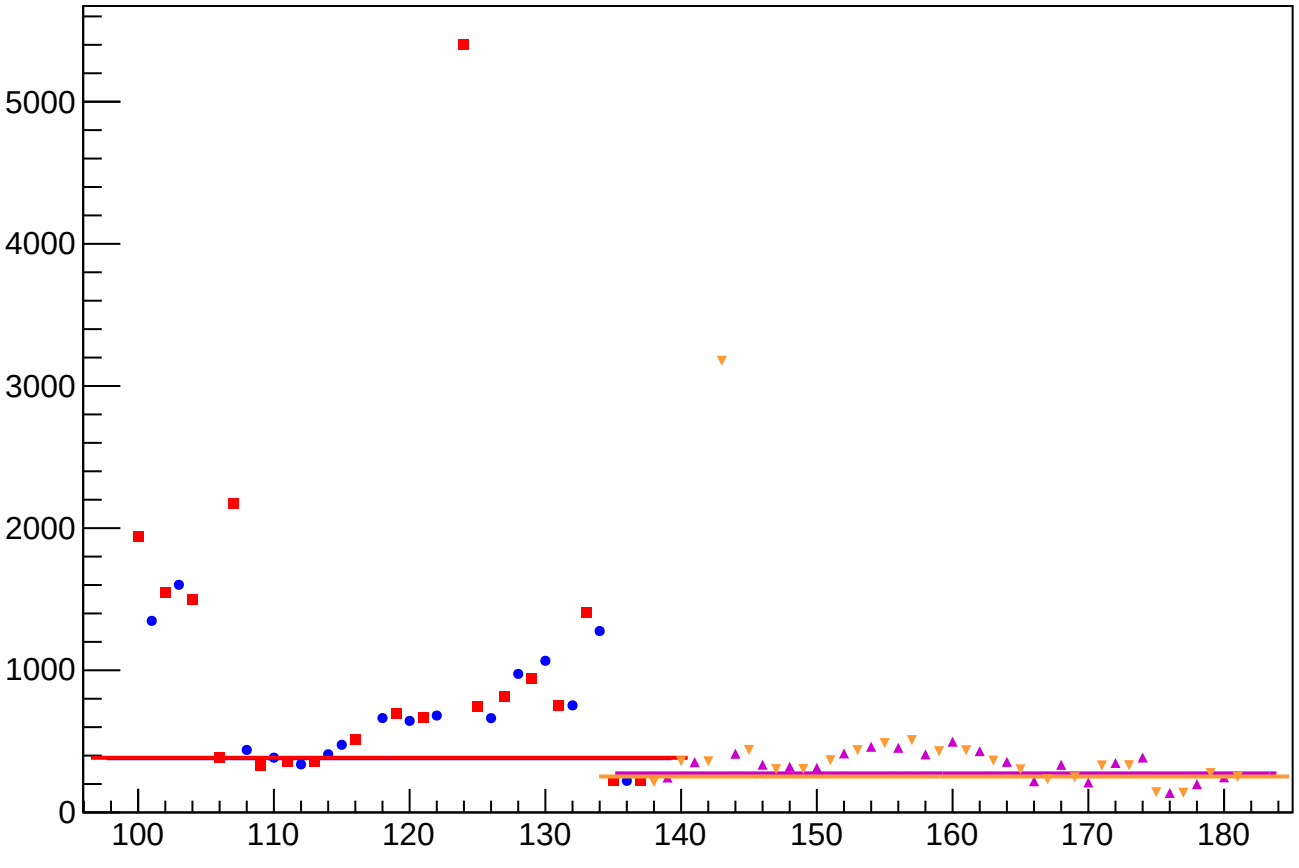
Left: -44.983+/-48.122 $\chi^2$/NDF: 65.8/43

Right: -98.185+/-120.081 $\chi^2$/NDF: 38.8/34

In: 32.376+/-65.420 $\chi^2$/NDF:40.8/36

Out: -126.345+/-61.140 $\chi^2$/NDF:60.9/41

All: -52.345+/-44.669 $\chi^2$/NDF: 104.8/78




Right In: 381.359+/-0.120 $\chi^2$/NDF: 4317737.3/15

Left Out: 253.006+/-0.046 $\chi^2$/NDF:6290306.7/22

Right Out: 384.658+/-0.120 $\chi^2$/NDF: 4560068.3/18

Left In: 274.828+/-0.050 $\chi^2$/NDF:4012088.2/20

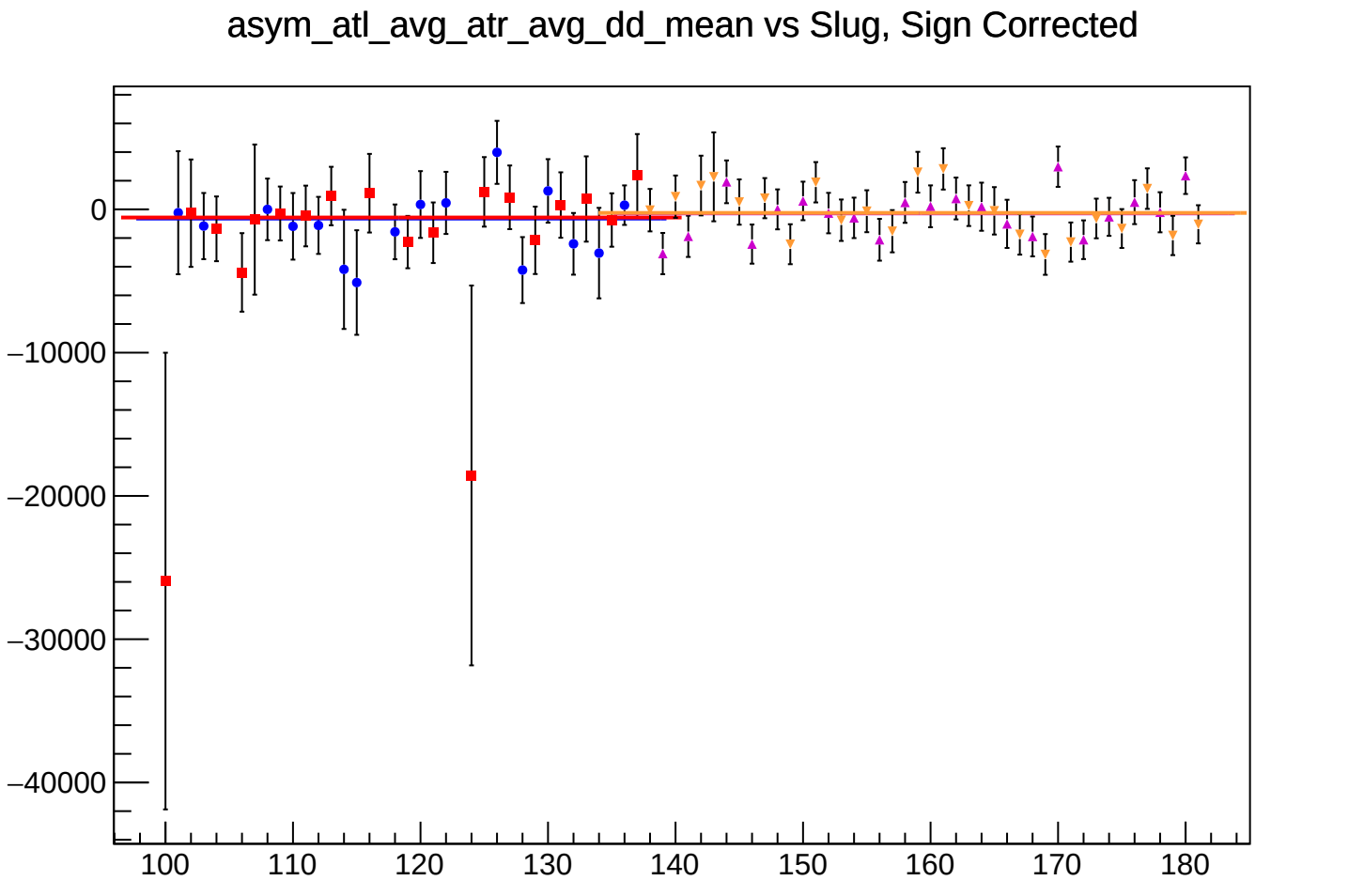
Left: 263.065+/-0.034 $\chi^2$/NDF: 10404581.7/43

Right: 383.012+/-0.085 $\chi^2$/NDF: 8878183.1/34

In: 290.609+/-0.046 $\chi^2$/NDF:8999080.5/36

Out: 270.102+/-0.043 $\chi^2$/NDF:11898185.9/41

All: 279.663+/-0.032 $\chi^2$/NDF: 21002163.9/78




Right In: -640.824+/-564.366 $\chi^2$/NDF: 12.5/15

Left Out: -246.934+/-307.086 $\chi^2$/NDF:28.5/22

Right Out: -567.254+/-566.774 $\chi^2$/NDF: 11.3/18

Left In: -280.507+/-311.407 $\chi^2$/NDF:26.0/20

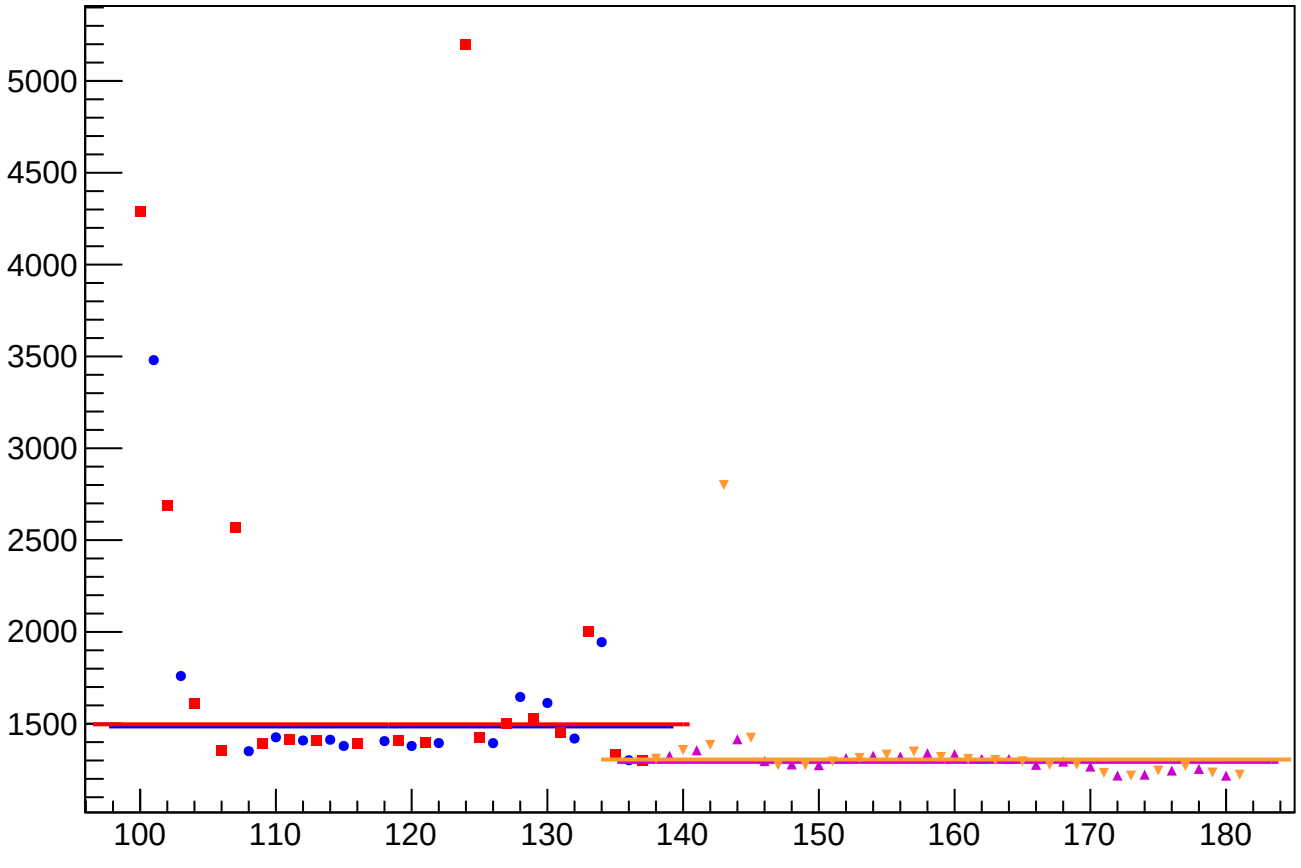
Left: -263.486+/-218.654 $\chi^2$/NDF: 54.5/43

Right: -604.196+/-399.916 $\chi^2$/NDF: 23.8/34

In: -364.605+/-272.655 $\chi^2$/NDF:38.8/36

Out: -319.628+/-270.002 $\chi^2$/NDF:40.1/41

All: -341.897+/-191.851 $\chi^2$/NDF: 78.9/78




Right In: 1485.370+/-0.399 $\chi^2$/NDF: 584470.1/15

Left Out: 1305.369+/-0.217 $\chi^2$/NDF:519026.6/22

Right Out: 1496.865+/-0.401 $\chi^2$/NDF: 623292.7/18

Left In: 1292.600+/-0.220 $\chi^2$/NDF:48260.6/20

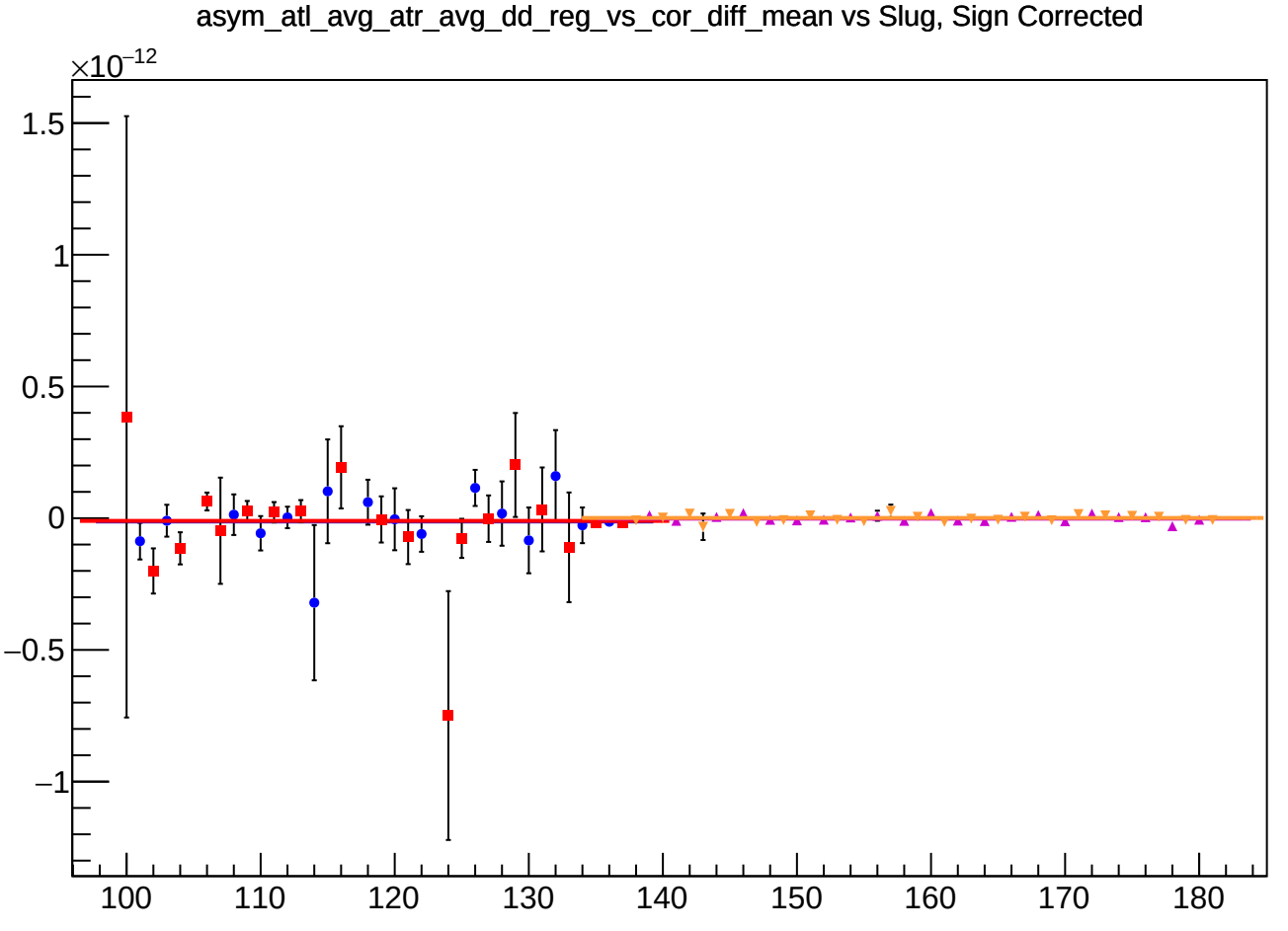
Left: 1299.073+/-0.155 $\chi^2$/NDF: 568991.9/43

Right: 1491.093+/-0.283 $\chi^2$/NDF: 1208175.9/34

In: 1337.593+/-0.193 $\chi^2$/NDF:811608.7/36

Out: 1348.827+/-0.191 $\chi^2$/NDF:1318821.1/41

All: 1343.265+/-0.136 $\chi^2$/NDF: 2132144.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:23.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.3/20

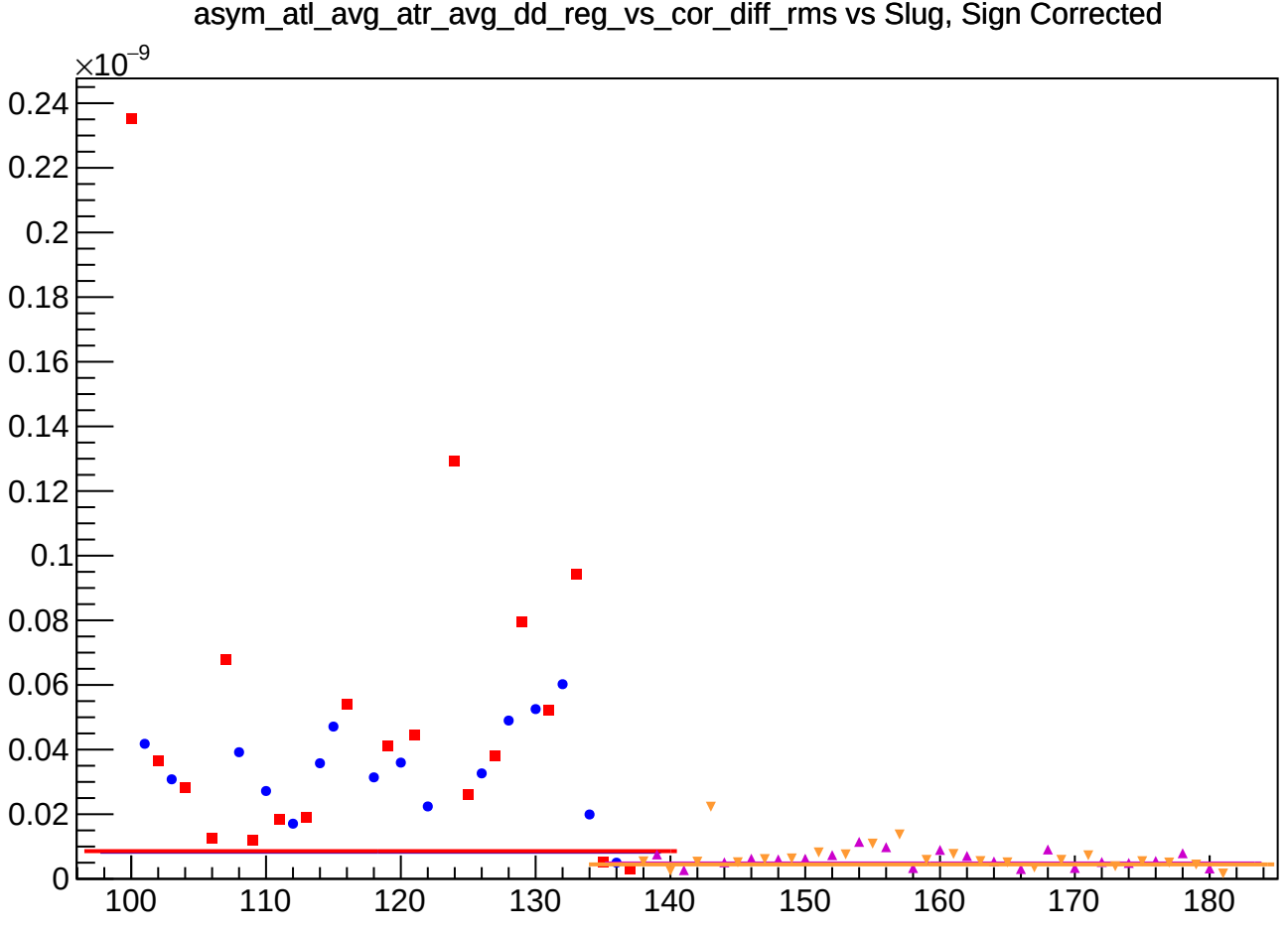
Left: -0.000+/-0.000 $\chi^2$/NDF: 49.1/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:36.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:47.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 84.8/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3059657.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2696144.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3348571.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1884560.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4603282.5/43

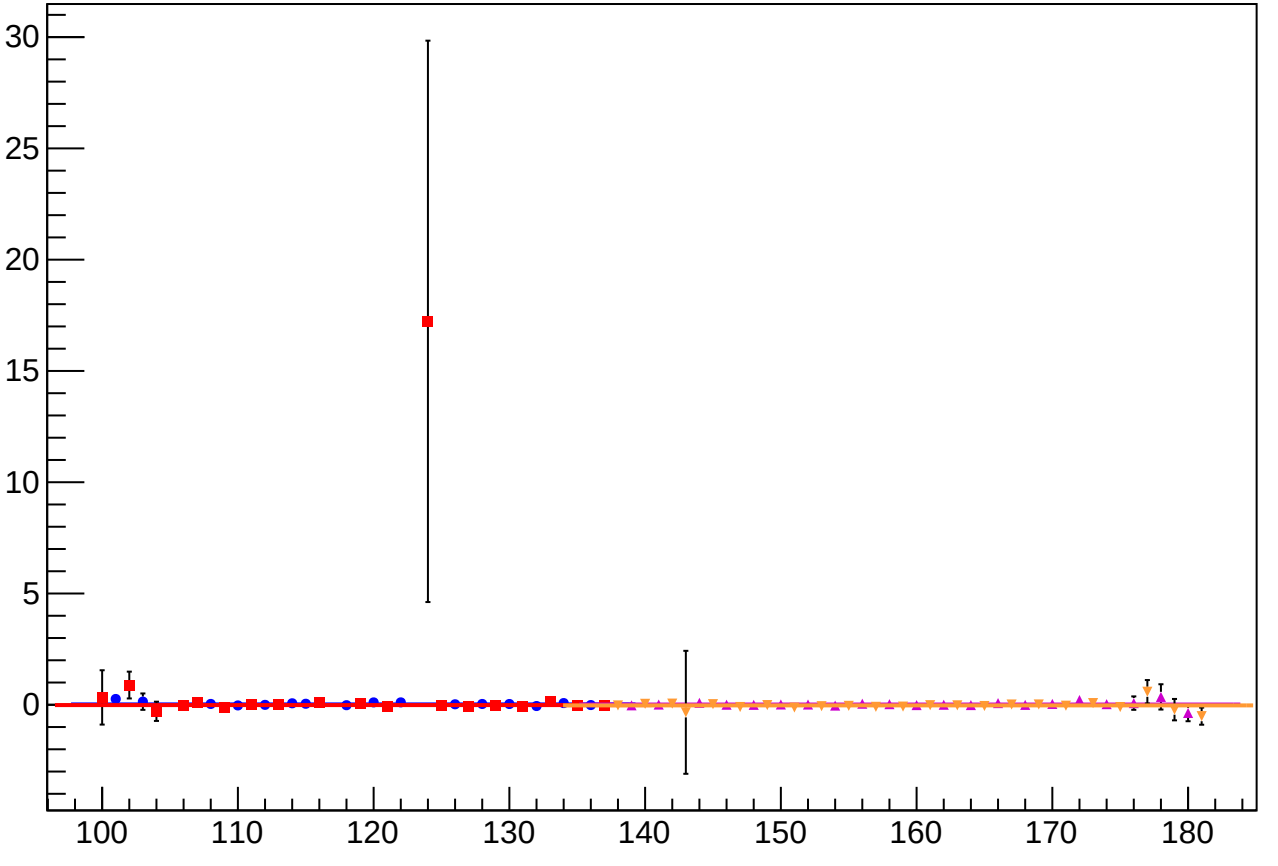
Right: 0.000+/-0.000 $\chi^2$/NDF: 6408892.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5381650.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6539805.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11952149.0/78

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.028+/-0.010 $\chi^2$/NDF:26.9/22

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.011+/-0.010 $\chi^2$/NDF:12.1/20

Left: -0.008+/-0.007 $\chi^2$/NDF: 47.4/43

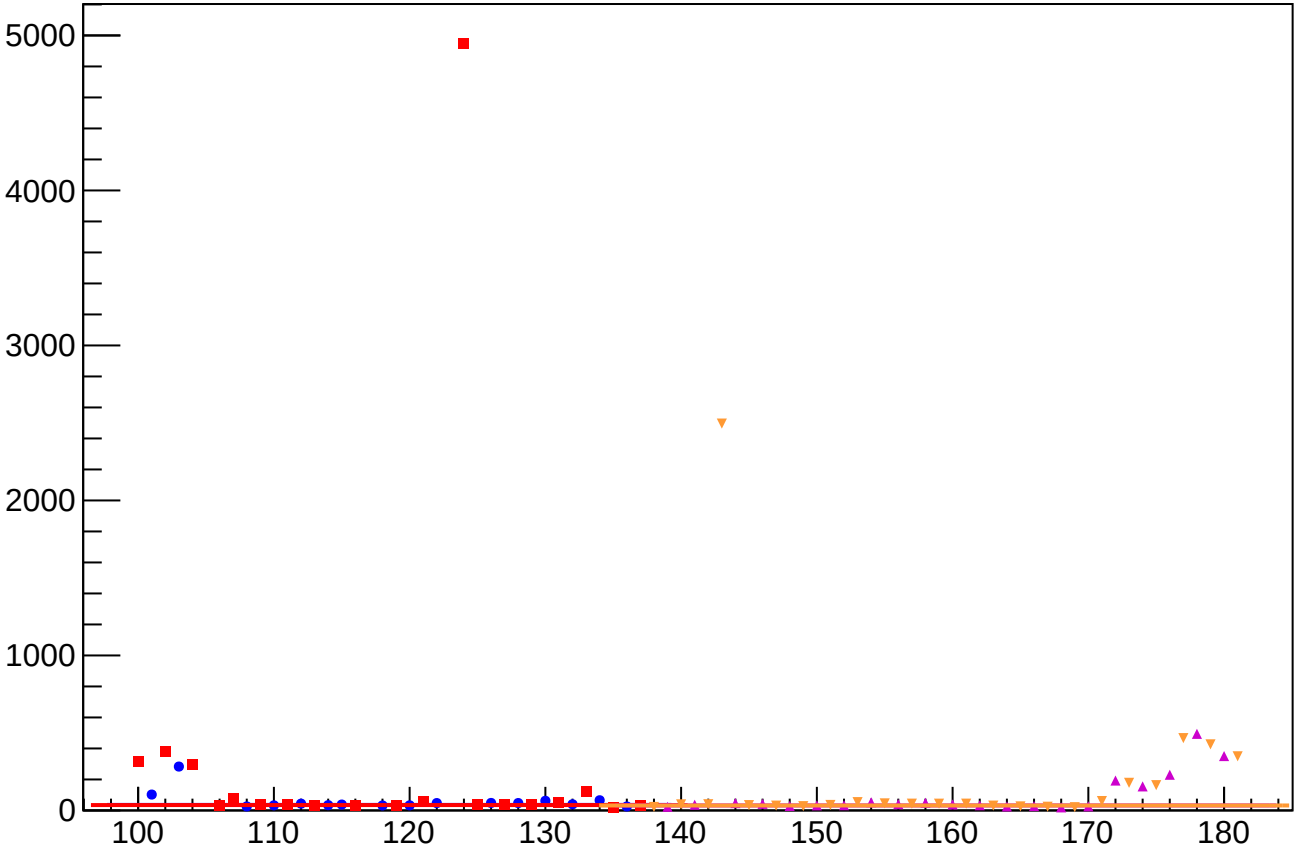
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.008 $\chi^2$/NDF:23.7/36

Out: -0.024+/-0.008 $\chi^2$/NDF:43.5/41

All: -0.005+/-0.006 $\chi^2$/NDF: 77.4/78

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 32.169+/-0.007 $\chi^2$/NDF:9393169.5/22

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 32.368+/-0.007 $\chi^2$/NDF:7423081.6/20

Left: 32.268+/-0.005 $\chi^2$/NDF: 16816688.0/43

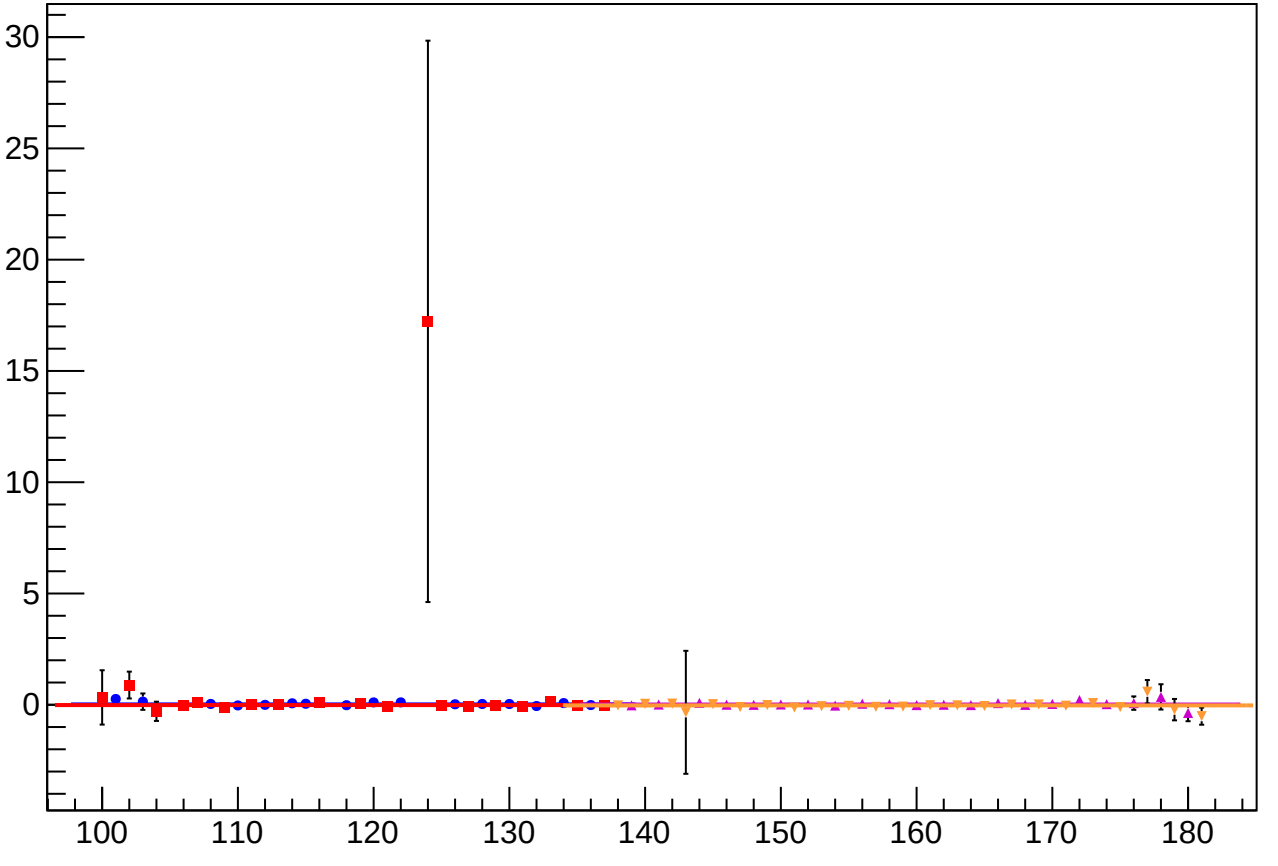
Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 33.295+/-0.006 $\chi^2$/NDF:9757078.9/36

Out: 32.881+/-0.006 $\chi^2$/NDF:12348572.1/41

All: 33.089+/-0.004 $\chi^2$/NDF: 22108250.6/78

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.028+/-0.010 $\chi^2$/NDF:26.9/22

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.011+/-0.010 $\chi^2$/NDF:12.1/20

Left: -0.008+/-0.007 $\chi^2$/NDF: 47.4/43

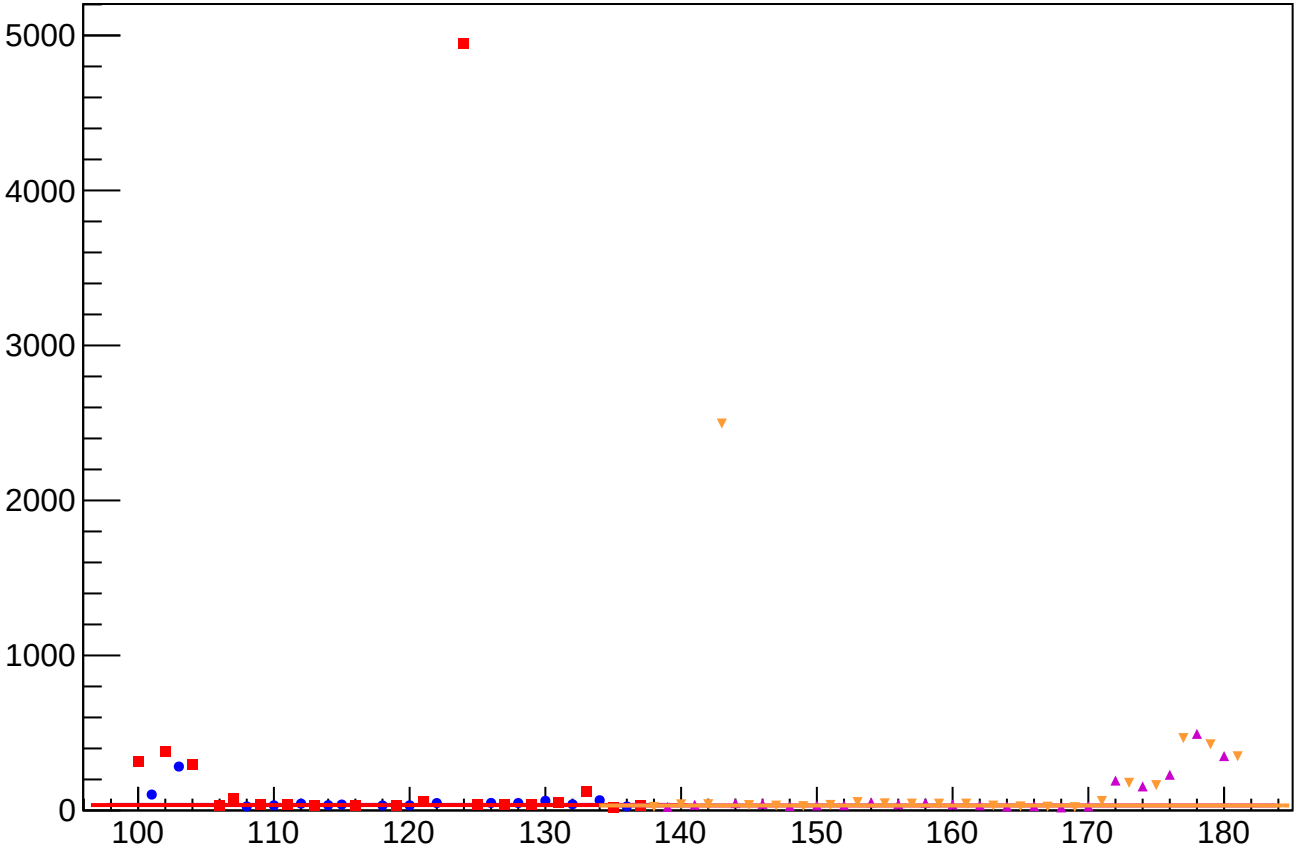
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.008 $\chi^2$/NDF:23.7/36

Out: -0.024+/-0.008 $\chi^2$/NDF:43.5/41

All: -0.005+/-0.006 $\chi^2$/NDF: 77.4/78

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 32.169+/-0.007 $\chi^2$/NDF:9393169.5/22

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 32.368+/-0.007 $\chi^2$/NDF:7423081.6/20

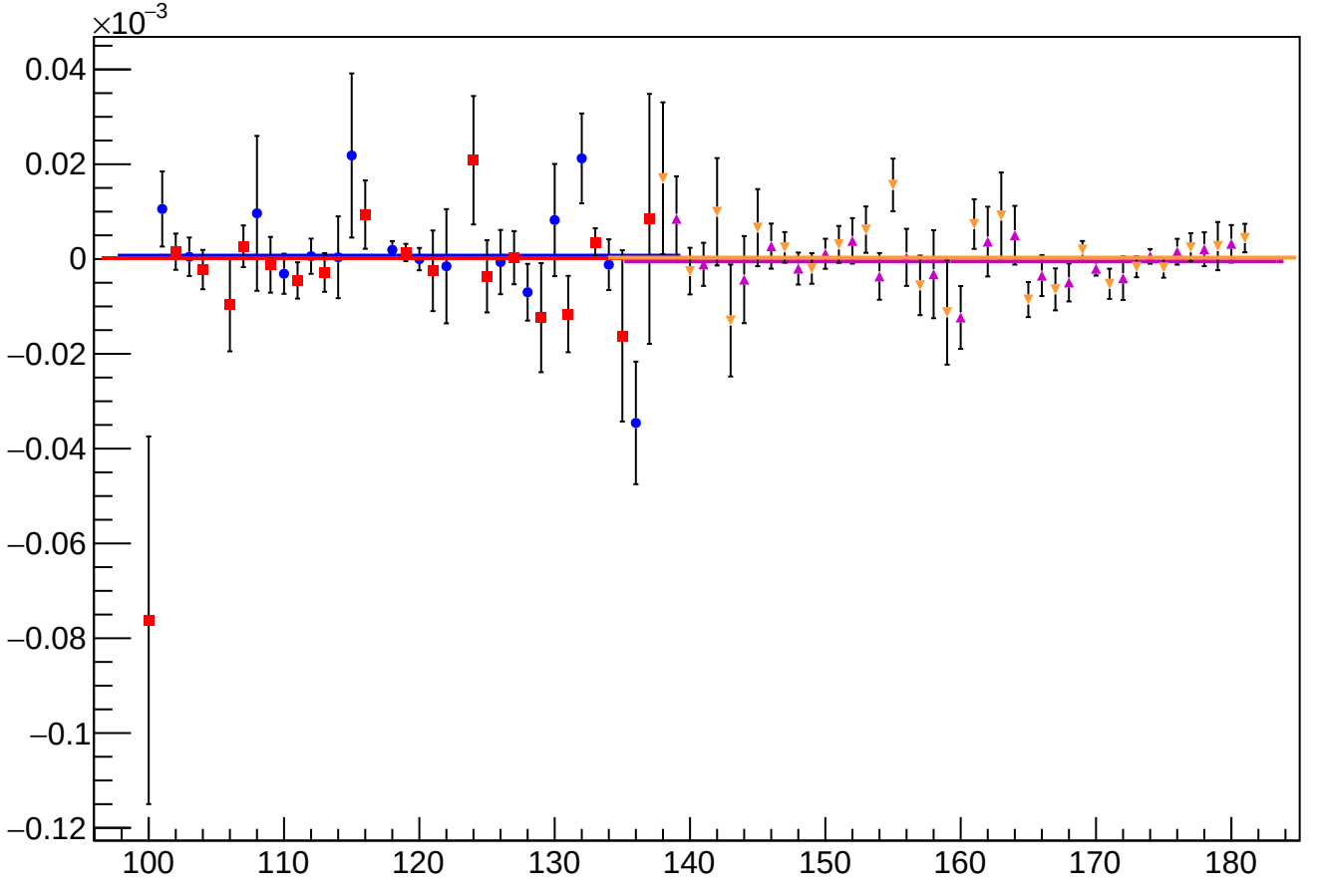
Left: 32.268+/-0.005 $\chi^2$/NDF: 16816688.0/43

Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 33.295+/-0.006 $\chi^2$/NDF:9757078.9/36

Out: 32.881+/-0.006 $\chi^2$/NDF:12348572.1/41

All: 33.089+/-0.004 $\chi^2$/NDF: 22108250.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:35.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.6/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 49.7/43

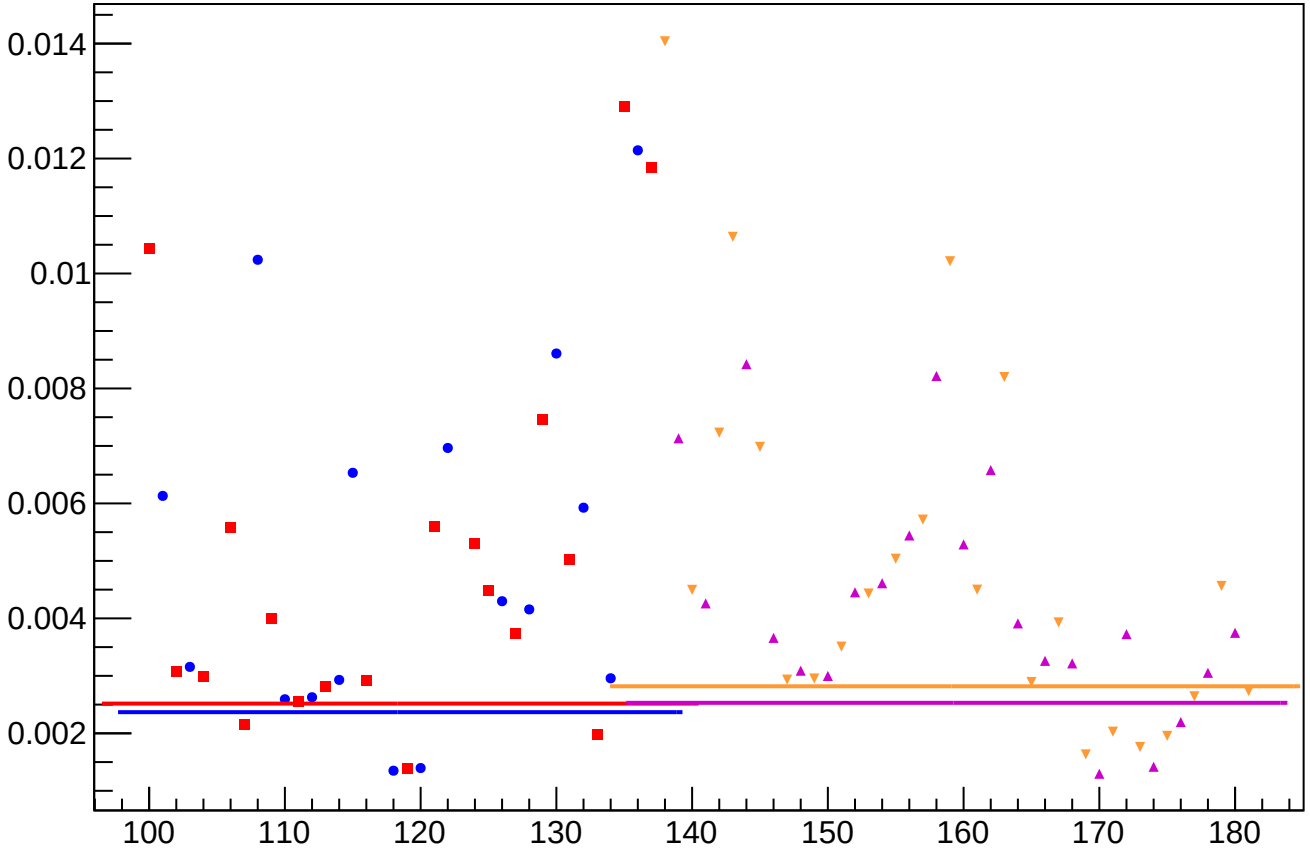
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:33.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:53.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 87.4/78

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4721602.1/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:7874548.3/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3397462.9/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:7812124.0/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 15832928.4/43

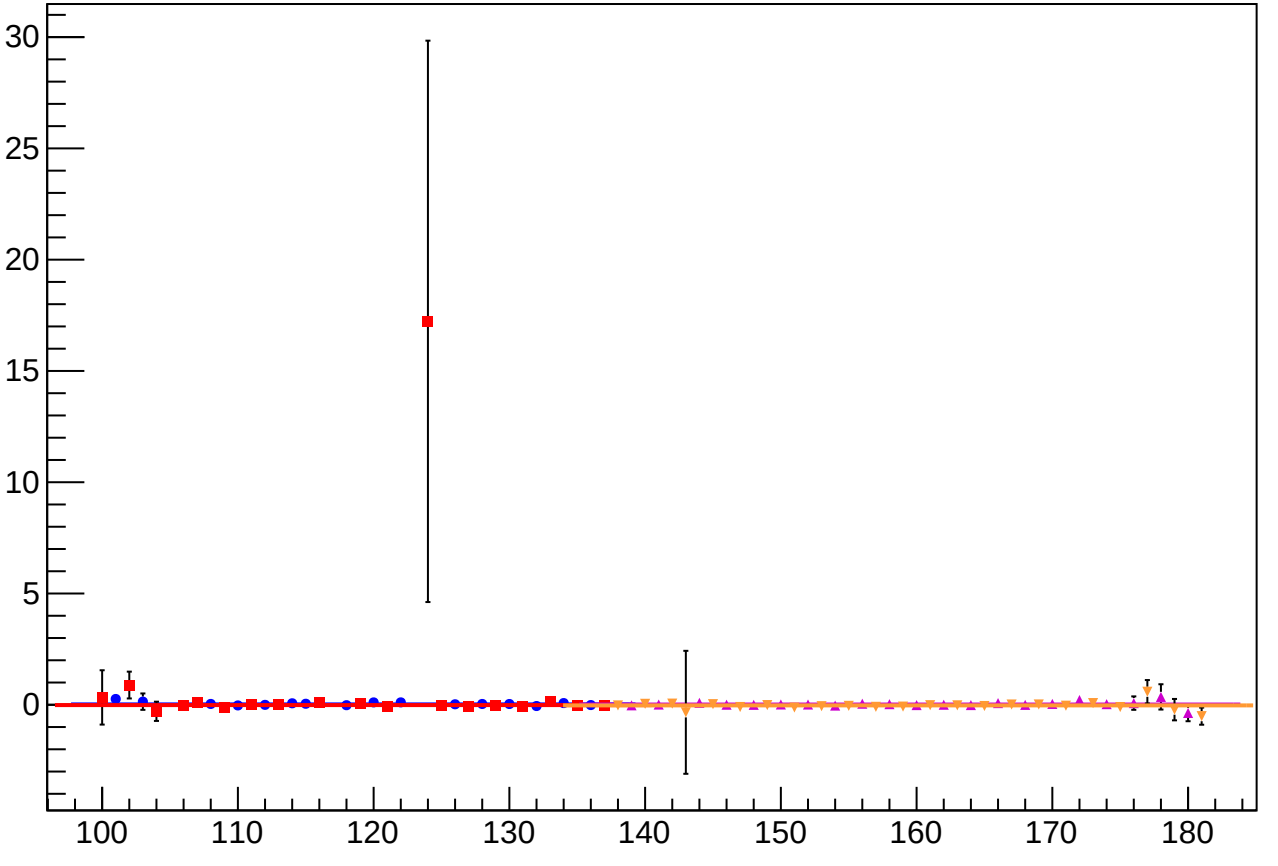
Right: 0.002+/-0.000 $\chi^2$/NDF: 8137943.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:12563618.9/36

Out: 0.003+/-0.000 $\chi^2$/NDF:11377566.1/41

All: 0.003+/-0.000 $\chi^2$/NDF: 24085528.5/78

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.028+/-0.010 $\chi^2$/NDF:26.9/22

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.011+/-0.010 $\chi^2$/NDF:12.1/20

Left: -0.008+/-0.007 $\chi^2$/NDF: 47.4/43

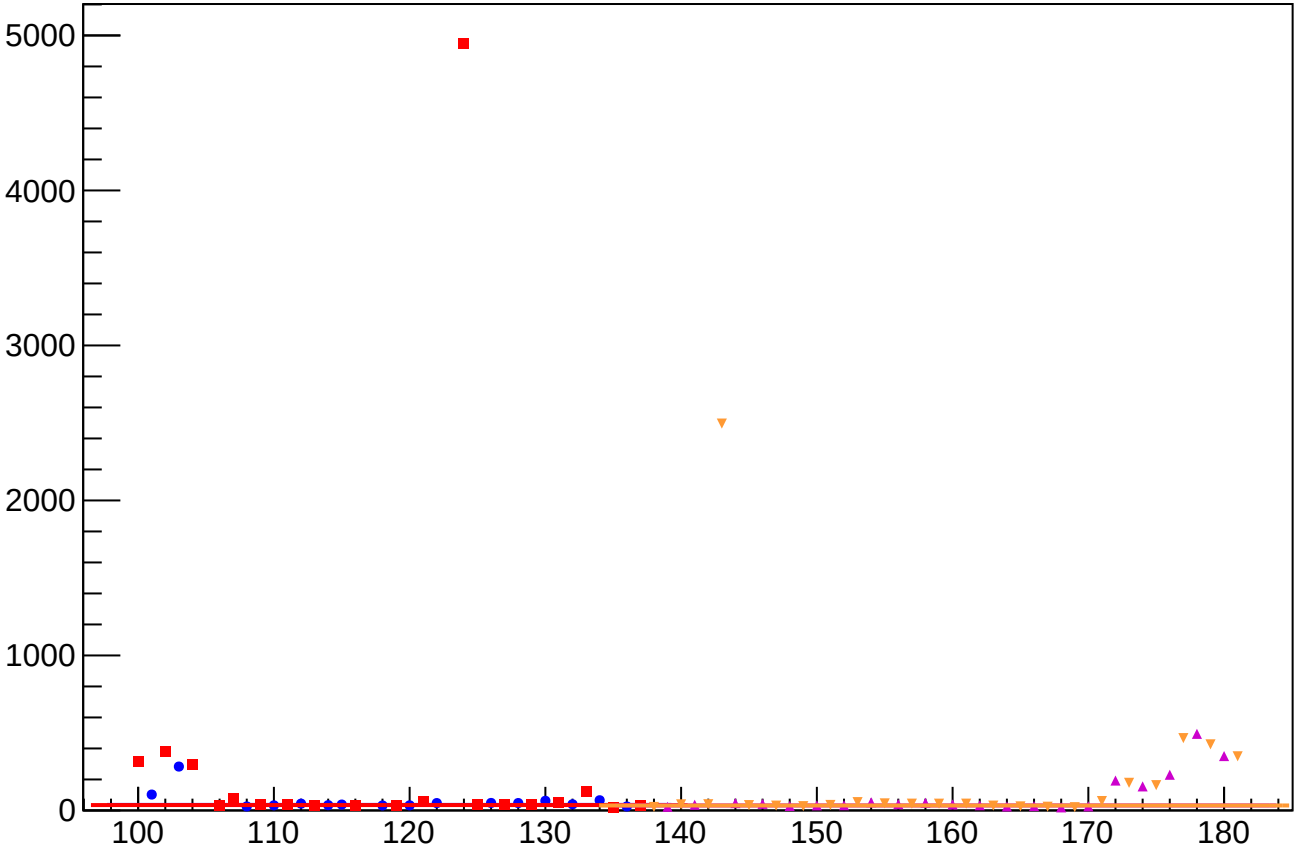
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.008 $\chi^2$/NDF:23.7/36

Out: -0.024+/-0.008 $\chi^2$/NDF:43.5/41

All: -0.005+/-0.006 $\chi^2$/NDF: 77.4/78

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 32.168+/-0.007 $\chi^2$/NDF:9393423.6/22

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 32.366+/-0.007 $\chi^2$/NDF:7423692.4/20

Left: 32.268+/-0.005 $\chi^2$/NDF: 16817548.1/43

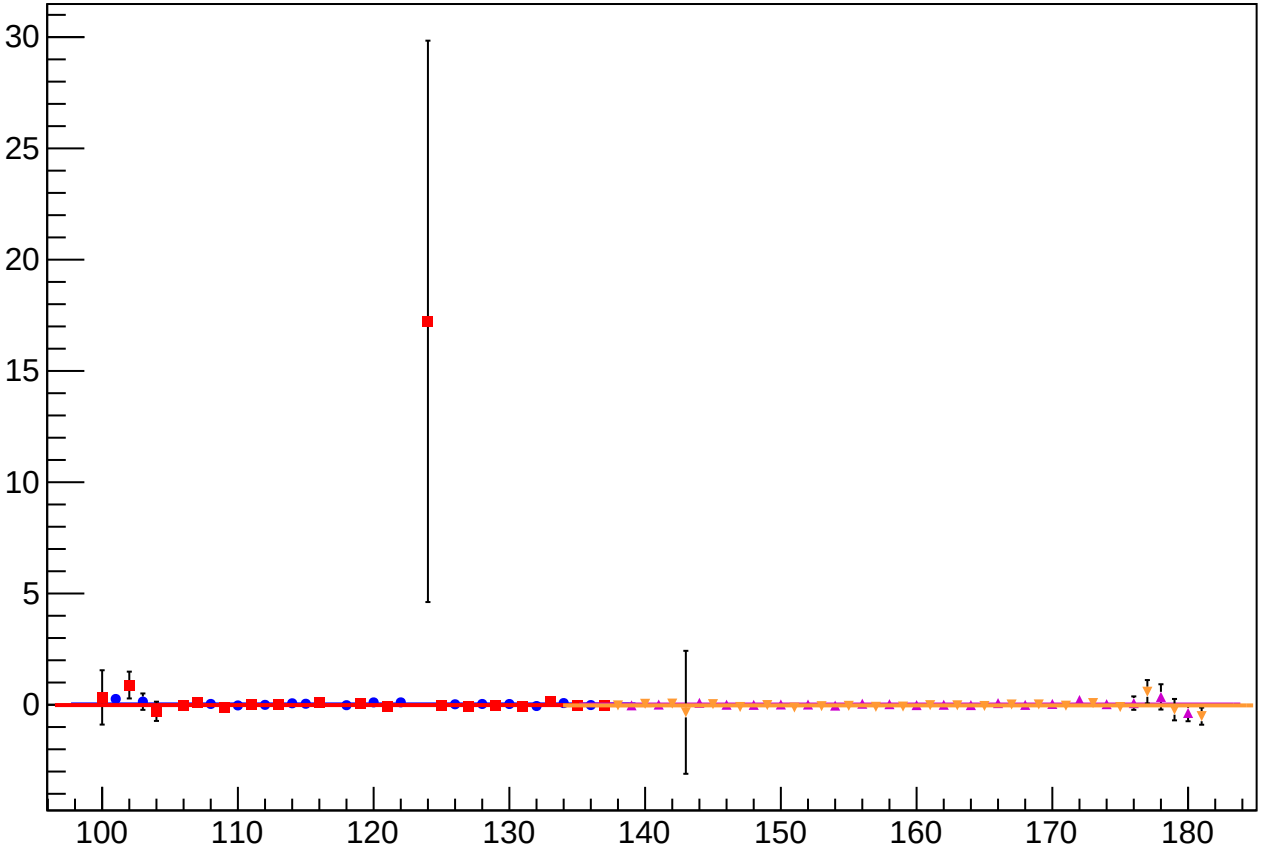
Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 33.294+/-0.006 $\chi^2$/NDF:9757526.8/36

Out: 32.881+/-0.006 $\chi^2$/NDF:12348686.4/41

All: 33.089+/-0.004 $\chi^2$/NDF: 22108804.4/78

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.028+/-0.010 $\chi^2$/NDF:26.9/22

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.011+/-0.010 $\chi^2$/NDF:12.1/20

Left: -0.008+/-0.007 $\chi^2$/NDF: 47.4/43

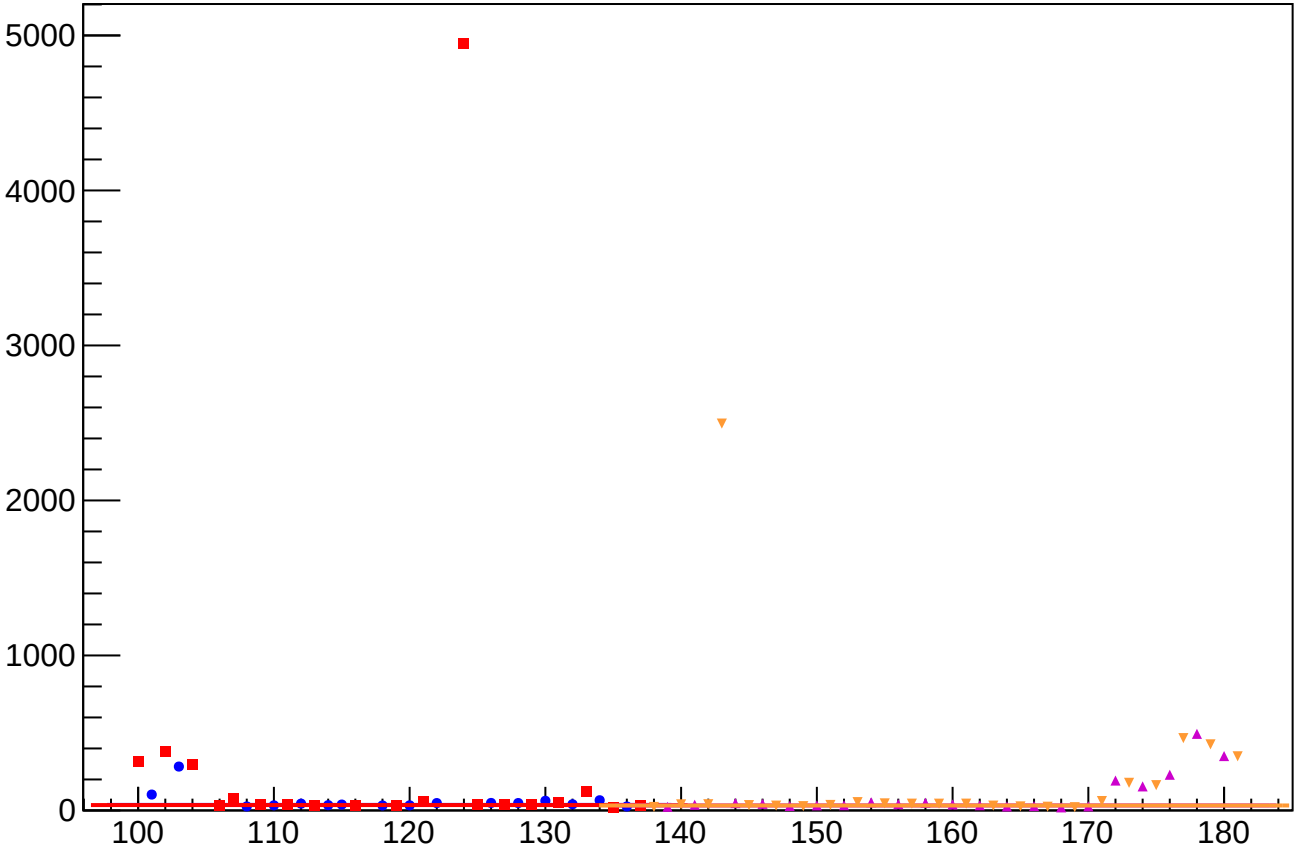
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.008 $\chi^2$/NDF:23.7/36

Out: -0.024+/-0.008 $\chi^2$/NDF:43.5/41

All: -0.005+/-0.006 $\chi^2$/NDF: 77.4/78

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 32.168+/-0.007 $\chi^2$/NDF:9393423.6/22

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 32.366+/-0.007 $\chi^2$/NDF:7423692.4/20

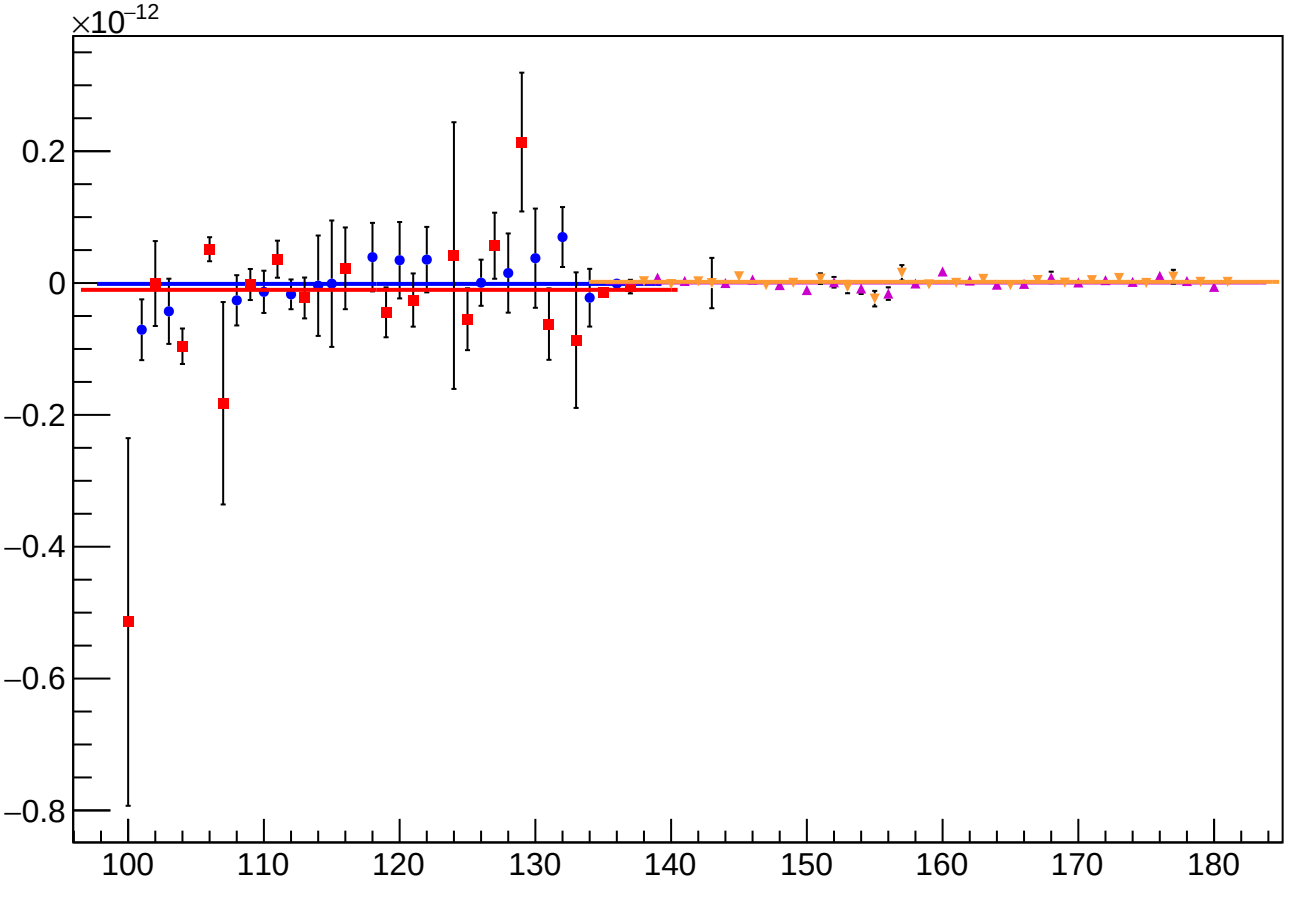
Left: 32.268+/-0.005 $\chi^2$/NDF: 16817548.1/43

Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 33.294+/-0.006 $\chi^2$/NDF:9757526.8/36

Out: 32.881+/-0.006 $\chi^2$/NDF:12348686.4/41

All: 33.089+/-0.004 $\chi^2$/NDF: 22108804.4/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.5/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 39.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.5/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 43.4/43

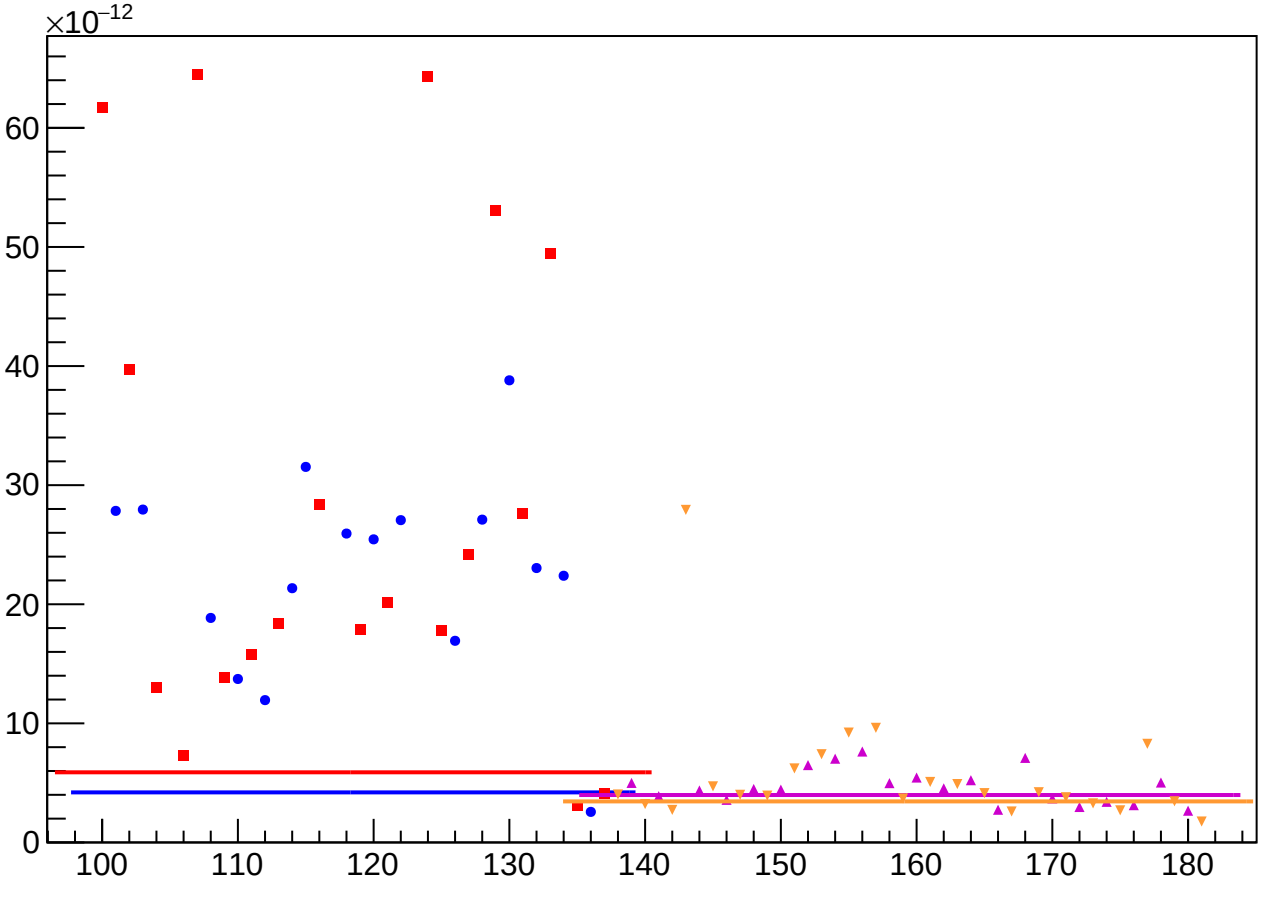
Right: -0.000+/-0.000 $\chi^2$/NDF: 51.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:36.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:63.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 99.9/78

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5080225.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4564814.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4860861.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2055609.6/20

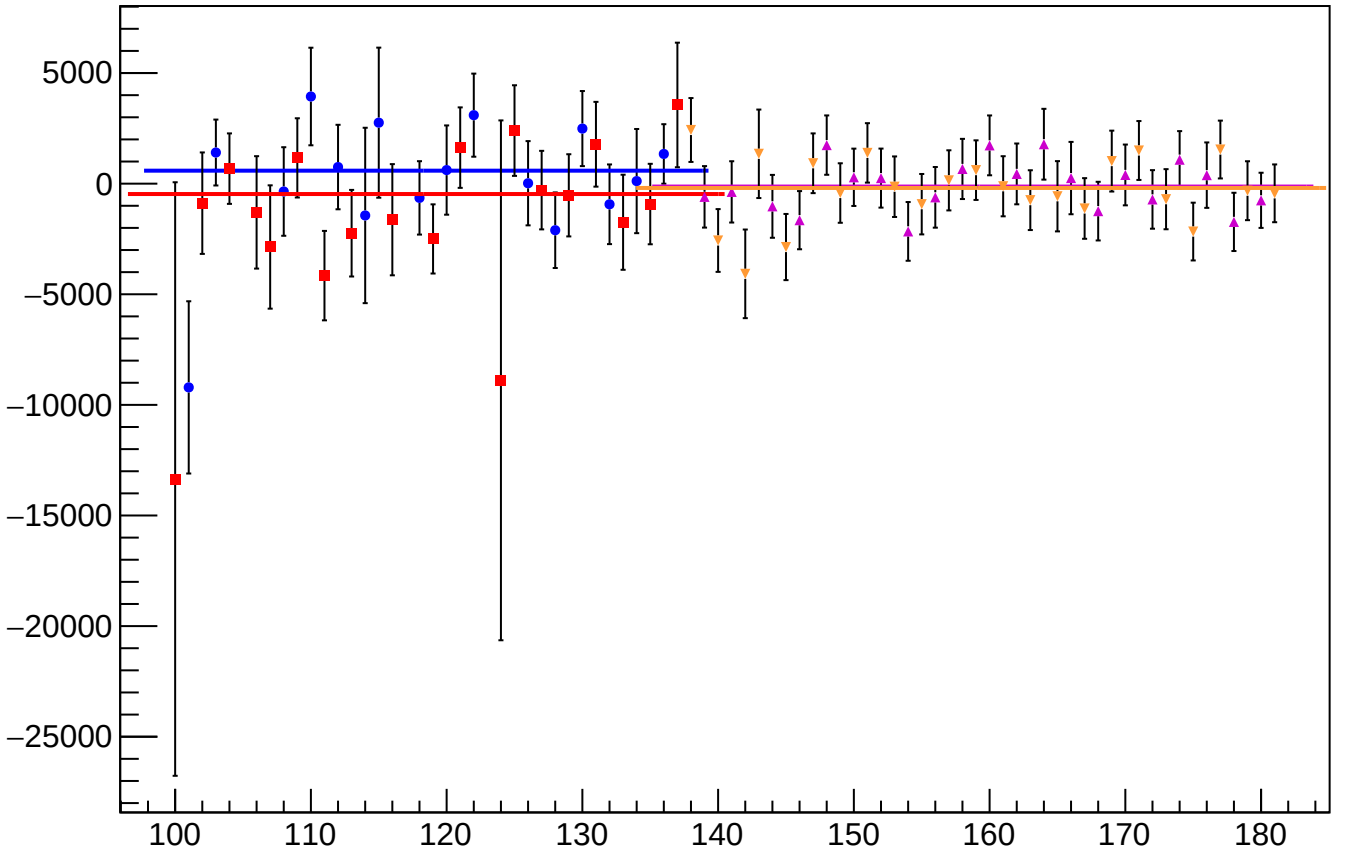
Left: 0.000+/-0.000 $\chi^2$/NDF: 6844696.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 10135954.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:7143253.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:10067692.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 17354309.1/78




Right In: 586.935+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -194.419+/-292.158 $\chi^2$/NDF:23.8/22

Right Out: -469.012+/-480.516 $\chi^2$/NDF: 16.9/18

Left In: -130.678+/-298.110 $\chi^2$/NDF:14.1/20

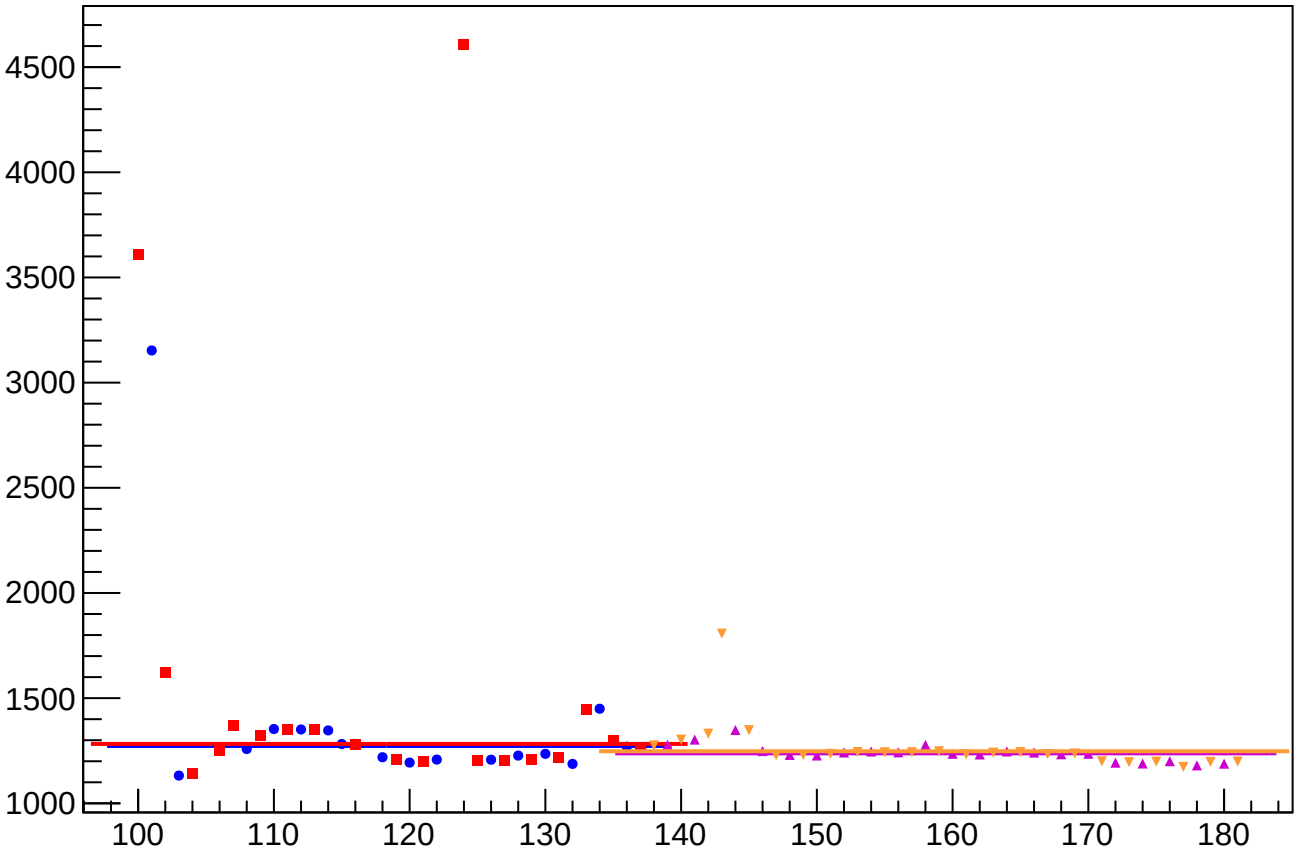
Left: -163.191+/-208.659 $\chi^2$/NDF: 37.9/43

Right: 56.858+/-340.452 $\chi^2$/NDF: 36.3/34

In: 67.617+/-253.599 $\chi^2$/NDF:32.8/36

Out: -268.532+/-249.637 $\chi^2$/NDF:40.8/41

All: -103.104+/-177.904 $\chi^2$/NDF: 74.6/78




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519298.2/15

Left Out: 1247.563+/-0.207 $\chi^2$/NDF:194718.0/22

Right Out: 1282.365+/-0.340 $\chi^2$/NDF: 322078.6/18

Left In: 1237.704+/-0.211 $\chi^2$/NDF:33897.0/20

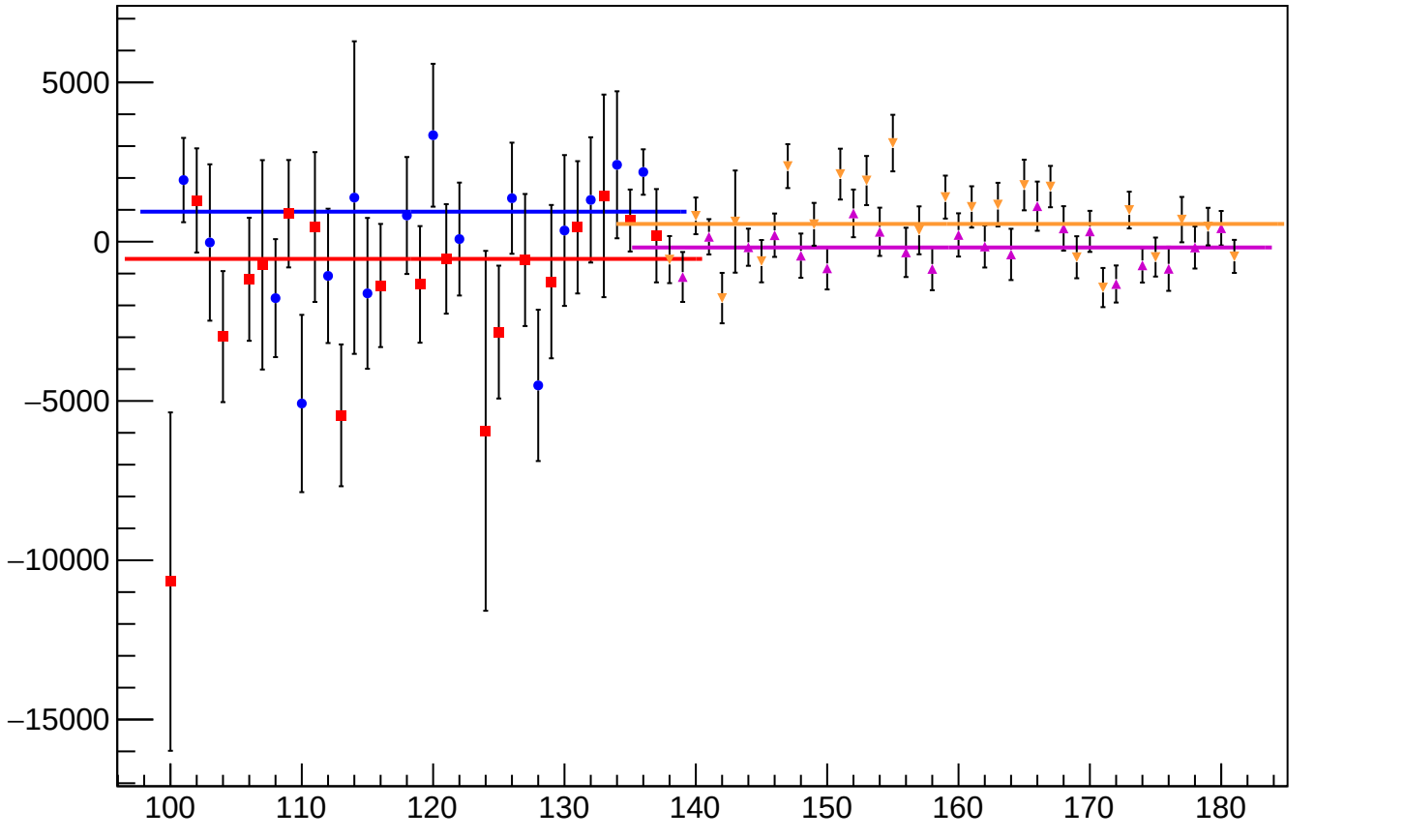
Left: 1242.733+/-0.148 $\chi^2$/NDF: 229730.9/43

Right: 1277.604+/-0.241 $\chi^2$/NDF: 841771.1/34

In: 1247.403+/-0.179 $\chi^2$/NDF:560856.9/36

Out: 1256.956+/-0.177 $\chi^2$/NDF:524456.1/41

All: 1252.255+/-0.126 $\chi^2$/NDF: 1086754.4/78




Right In: 941.759+/-425.837 $\chi^2$/NDF: 19.9/15

Left Out: 556.906+/-142.043 $\chi^2$/NDF:65.5/22

Right Out: -540.622+/-439.905 $\chi^2$/NDF: 17.2/18

Left In: -181.815+/-144.242 $\chi^2$/NDF:18.4/20

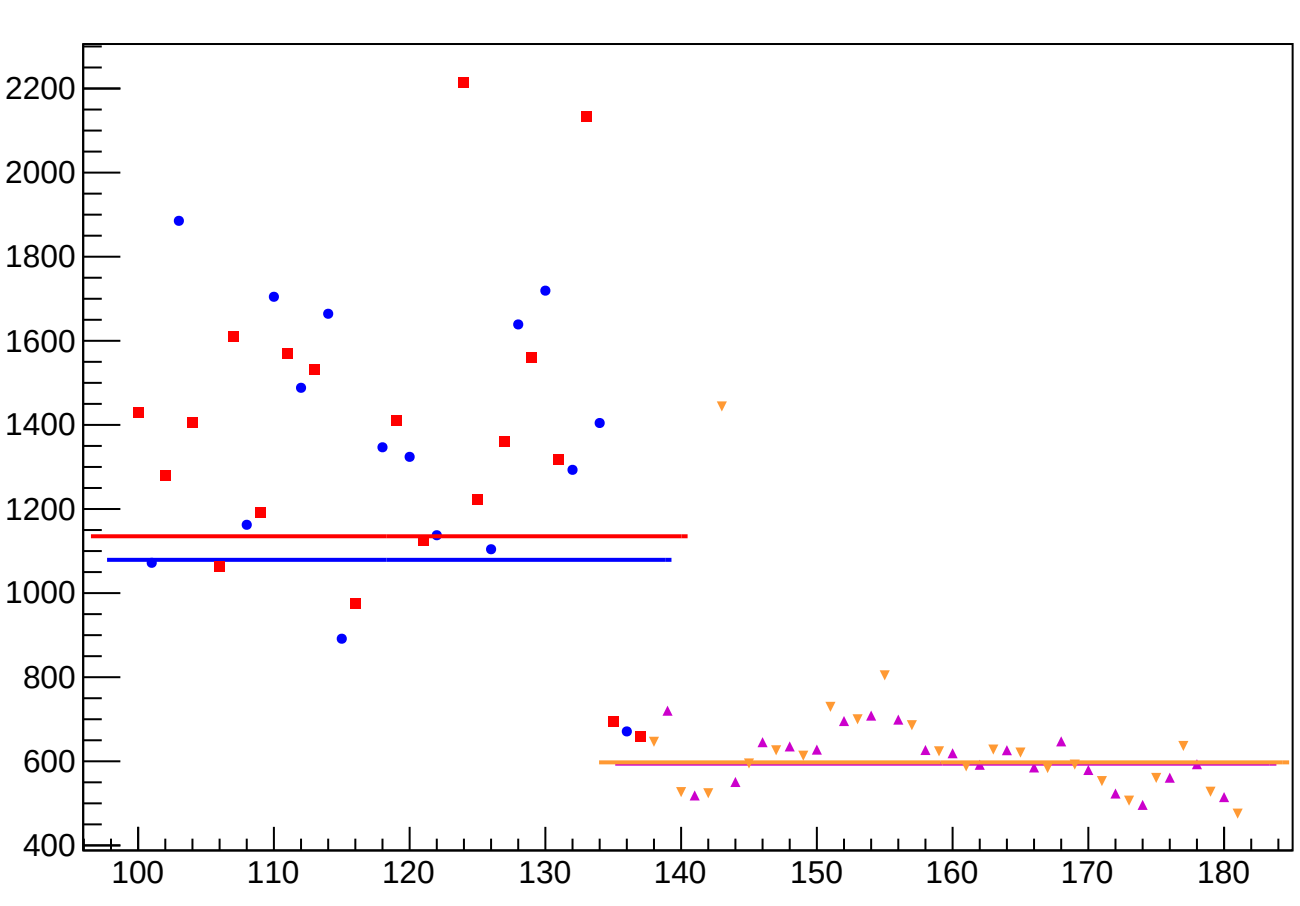
Left: 193.220+/-101.208 $\chi^2$/NDF: 97.2/43

Right: 224.651+/-305.965 $\chi^2$/NDF: 42.9/34

In: -66.170+/-136.618 $\chi^2$/NDF:44.6/36

Out: 453.281+/-135.171 $\chi^2$/NDF:88.3/41

All: 196.320+/-96.088 $\chi^2$/NDF: 140.2/78




Right In: 1079.120+/-0.301 $\chi^2$/NDF: 1482232.0/15

Left Out: 597.476+/-0.100 $\chi^2$/NDF:1066558.4/22

Right Out: 1135.161+/-0.311 $\chi^2$/NDF: 1293082.2/18

Left In: 594.333+/-0.102 $\chi^2$/NDF:409041.5/20

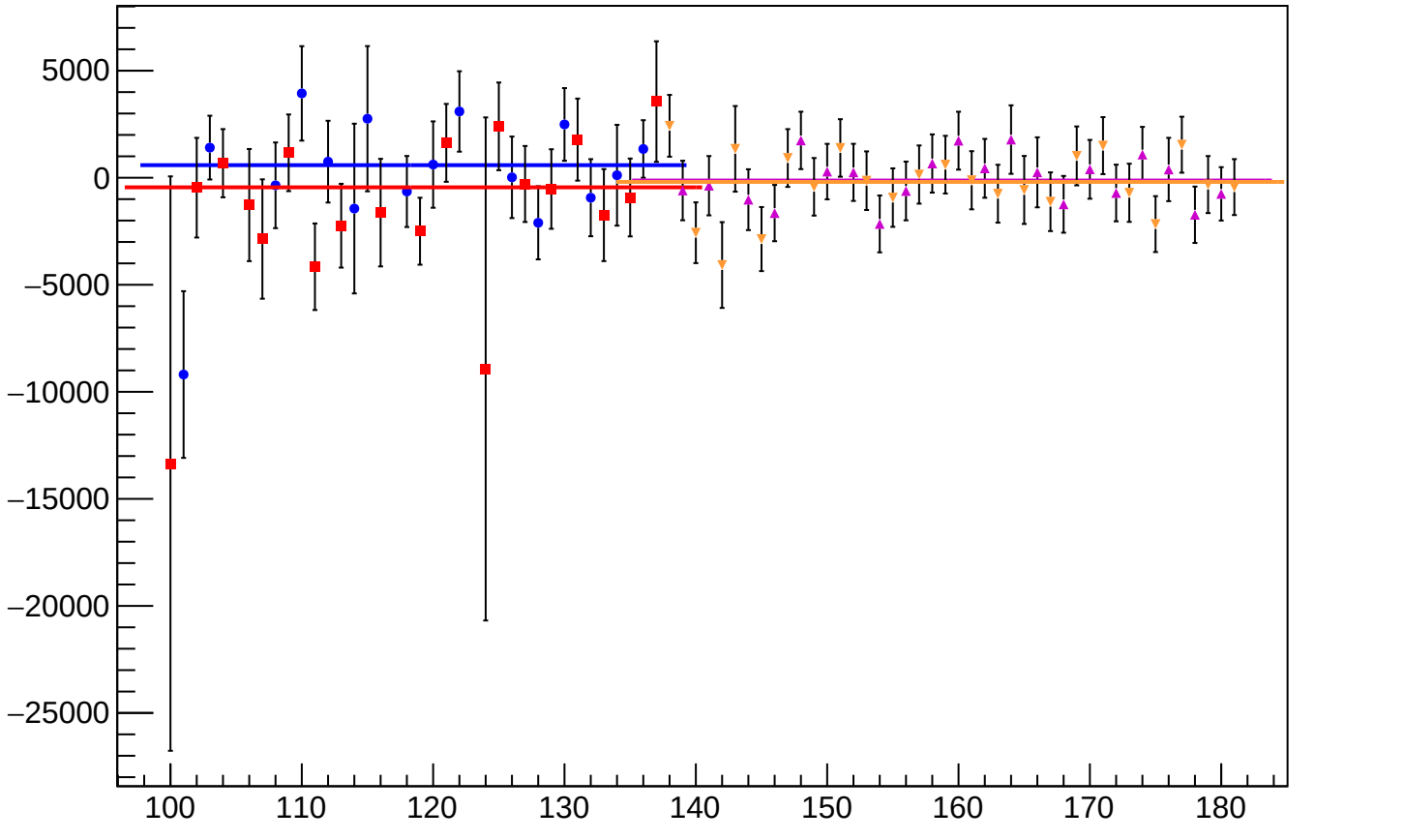
Left: 595.928+/-0.072 $\chi^2$/NDF: 1476082.0/43

Right: 1106.230+/-0.216 $\chi^2$/NDF: 2792070.7/34

In: 644.230+/-0.097 $\chi^2$/NDF:4216545.8/36

Out: 648.242+/-0.096 $\chi^2$/NDF:5065446.6/41

All: 646.257+/-0.068 $\chi^2$/NDF: 9282864.1/78




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -194.468+/-292.158 $\chi^2$/NDF:23.8/22

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -130.707+/-298.110 $\chi^2$/NDF:14.1/20

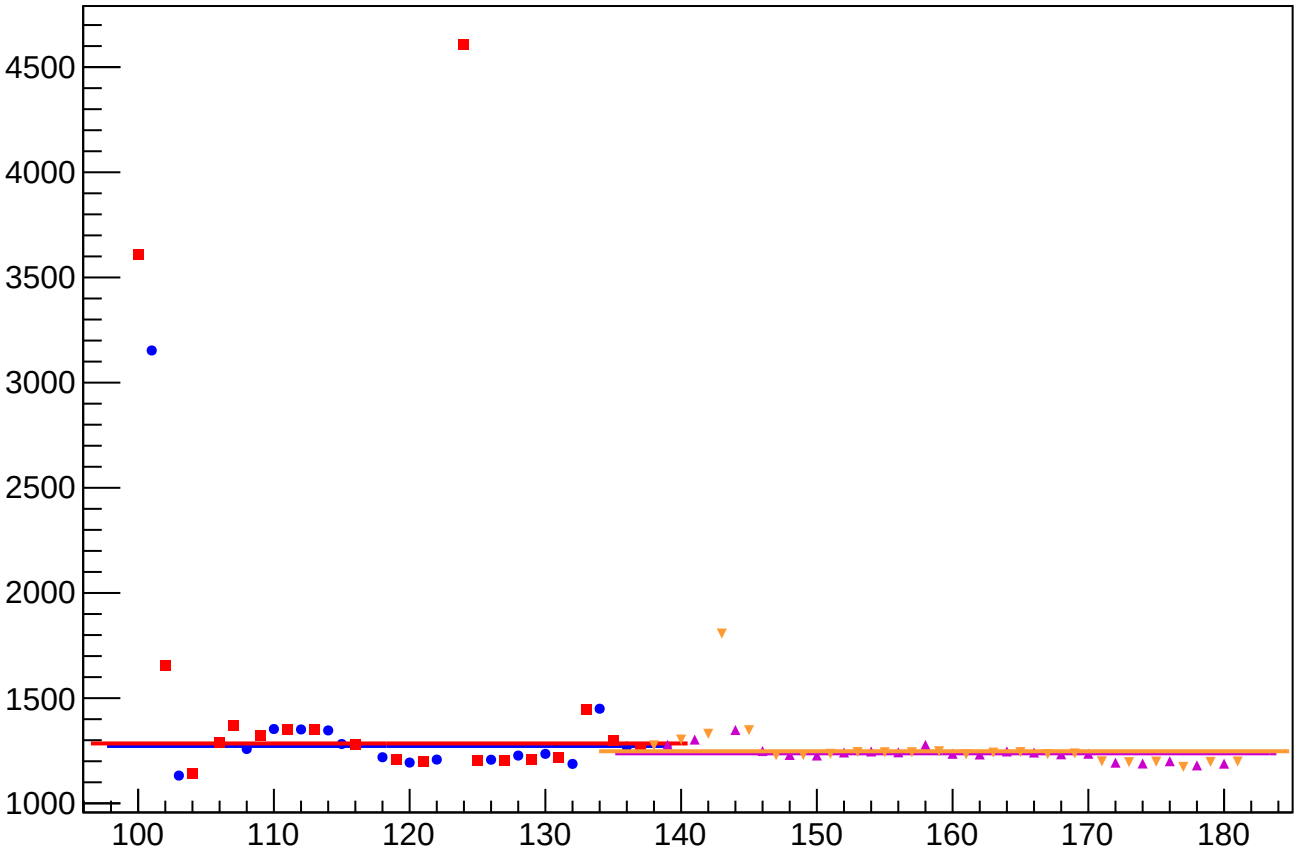
Left: -163.230+/-208.659 $\chi^2$/NDF: 37.9/43

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 67.684+/-253.599 $\chi^2$/NDF:32.8/36

Out: -262.838+/-249.751 $\chi^2$/NDF:40.8/41

All: -100.103+/-177.946 $\chi^2$/NDF: 74.4/78




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1247.563+/-0.207 $\chi^2$/NDF:194718.0/22

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1237.704+/-0.211 $\chi^2$/NDF:33897.0/20

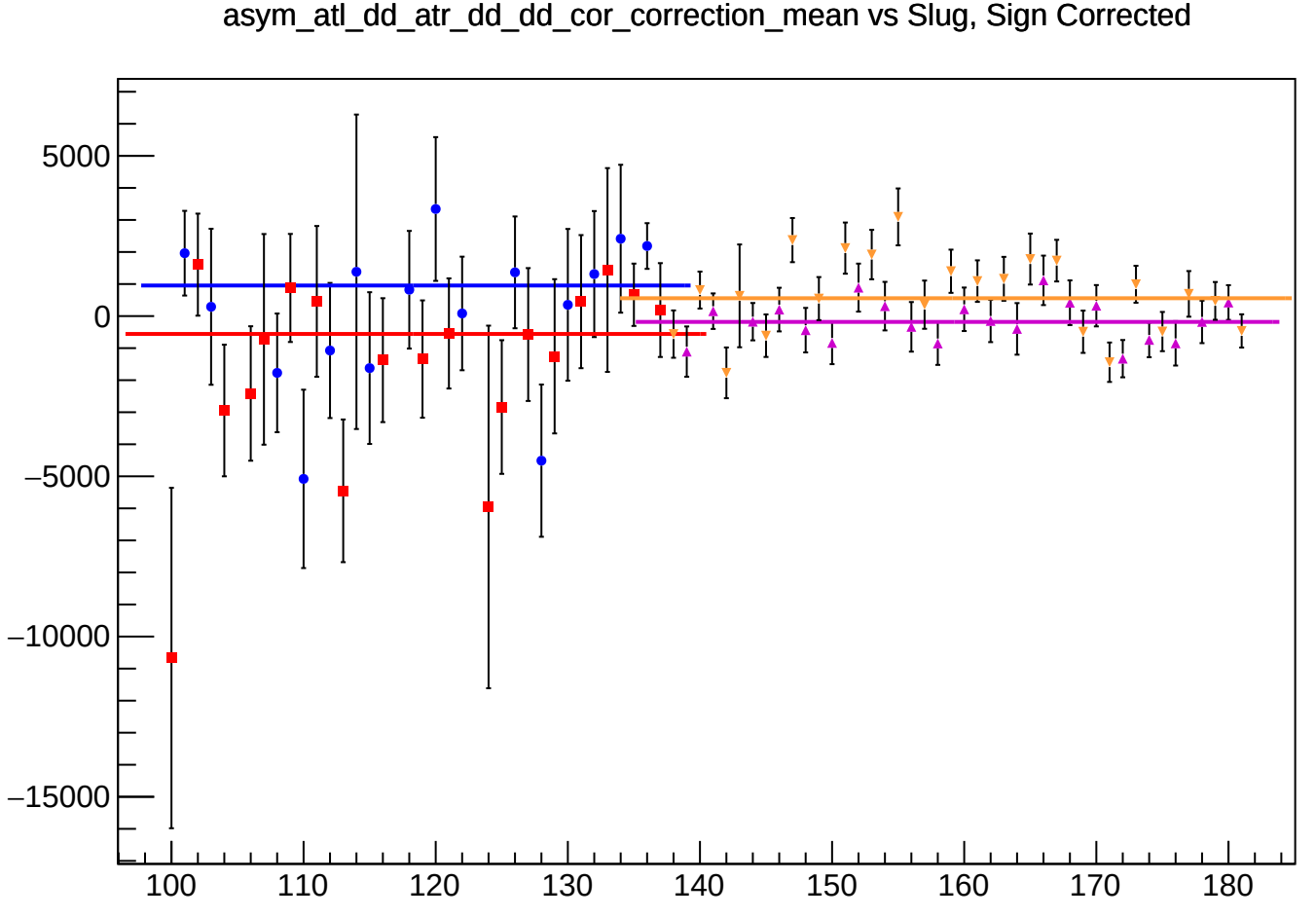
Left: 1242.733+/-0.148 $\chi^2$/NDF: 229730.9/43

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1247.403+/-0.179 $\chi^2$/NDF:560858.2/36

Out: 1257.549+/-0.177 $\chi^2$/NDF:532131.7/41

All: 1252.554+/-0.126 $\chi^2$/NDF: 1094615.1/78




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: 556.880+/-142.044 $\chi^2$/NDF:65.5/22

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -181.785+/-144.242 $\chi^2$/NDF:18.4/20

Left: 193.218+/-101.208 $\chi^2$/NDF: 97.2/43

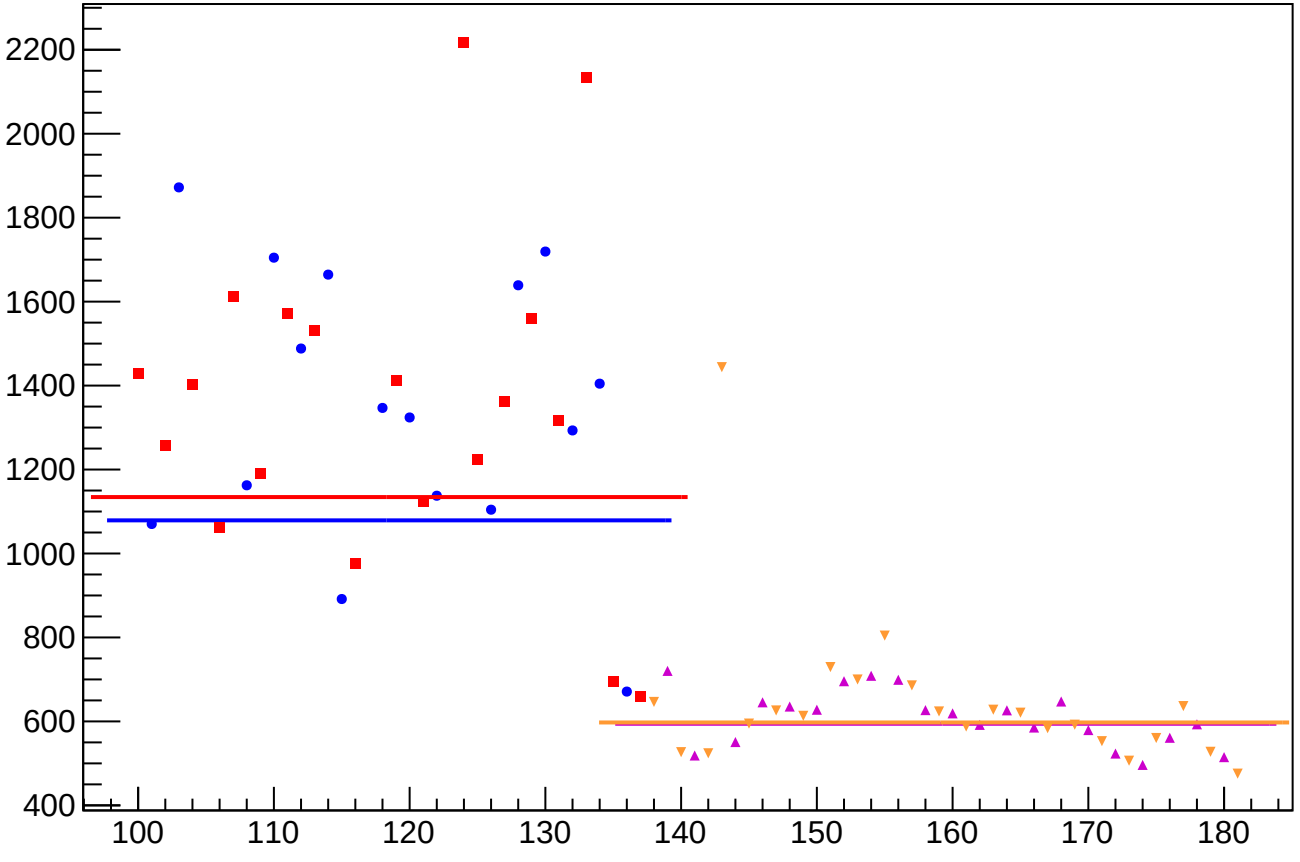
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: -64.782+/-136.611 $\chi^2$/NDF:44.7/36

Out: 451.990+/-135.196 $\chi^2$/NDF:89.7/41

All: 196.294+/-96.095 $\chi^2$/NDF: 141.6/78

asym_atl_dd_atr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 1078.932+/-0.301 $\chi^2$/NDF: 1478719.9/15

Left Out: 597.480+/-0.100 $\chi^2$/NDF:1066475.2/22

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 594.330+/-0.102 $\chi^2$/NDF:409059.0/20

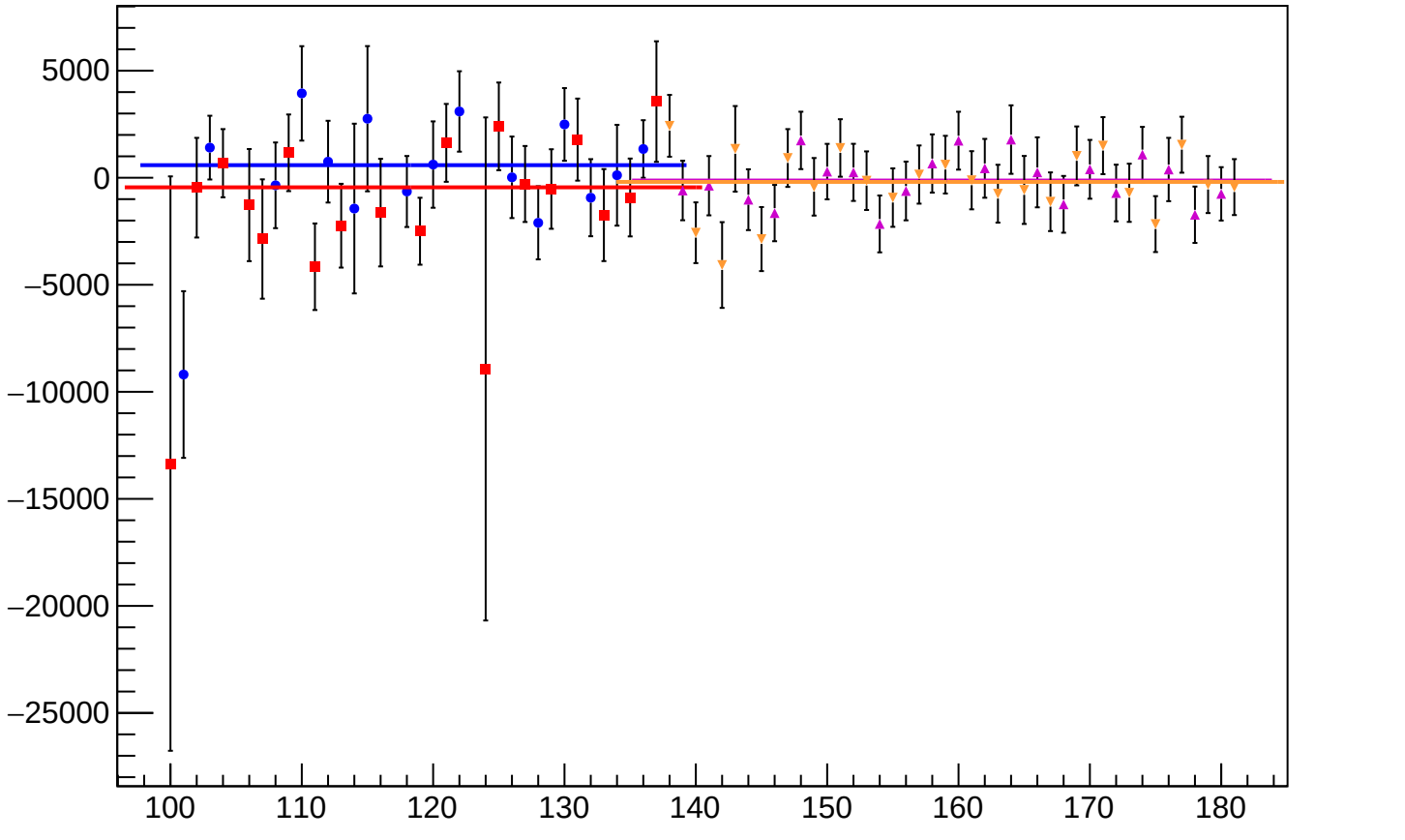
Left: 595.929+/-0.072 $\chi^2$/NDF: 1476018.5/43

Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 644.245+/-0.097 $\chi^2$/NDF:4213006.8/36

Out: 648.000+/-0.096 $\chi^2$/NDF:5044311.2/41

All: 646.142+/-0.068 $\chi^2$/NDF: 9258081.3/78




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -194.468+/-292.158 $\chi^2$/NDF:23.8/22

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -130.707+/-298.110 $\chi^2$/NDF:14.1/20

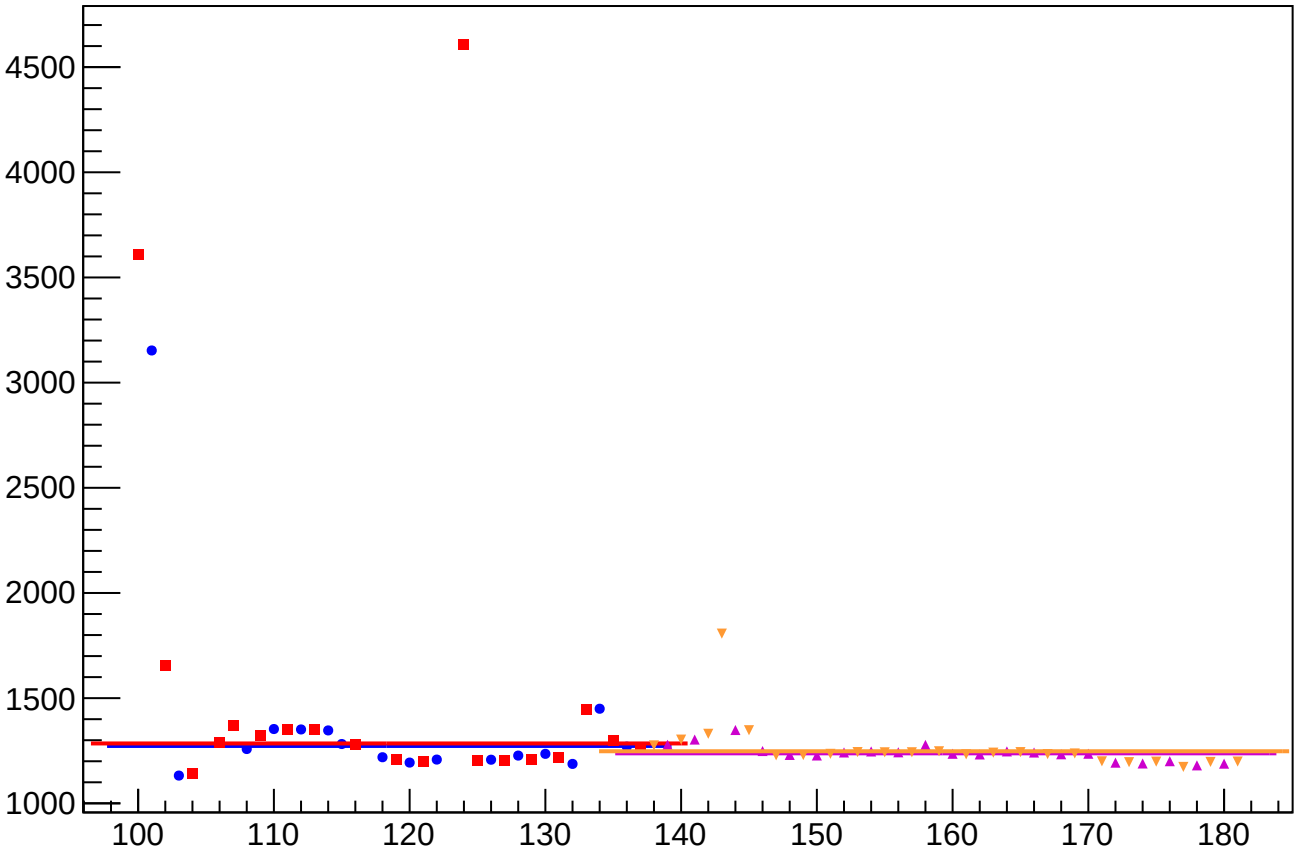
Left: -163.230+/-208.659 $\chi^2$/NDF: 37.9/43

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 67.684+/-253.599 $\chi^2$/NDF:32.8/36

Out: -262.838+/-249.751 $\chi^2$/NDF:40.8/41

All: -100.103+/-177.946 $\chi^2$/NDF: 74.4/78




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1247.563+/-0.207 $\chi^2$/NDF:194718.0/22

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1237.704+/-0.211 $\chi^2$/NDF:33897.0/20

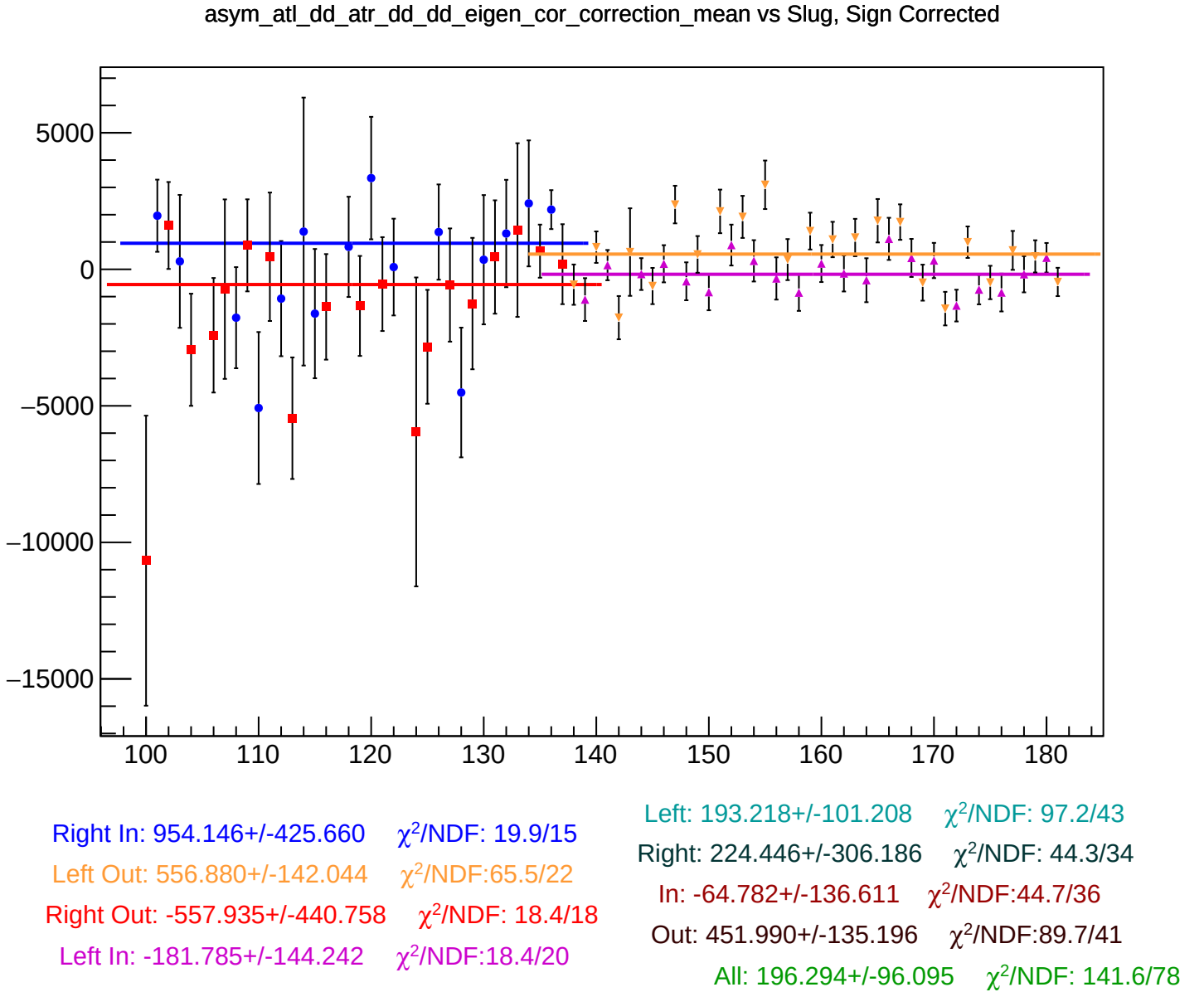
Left: 1242.733+/-0.148 $\chi^2$/NDF: 229730.9/43

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

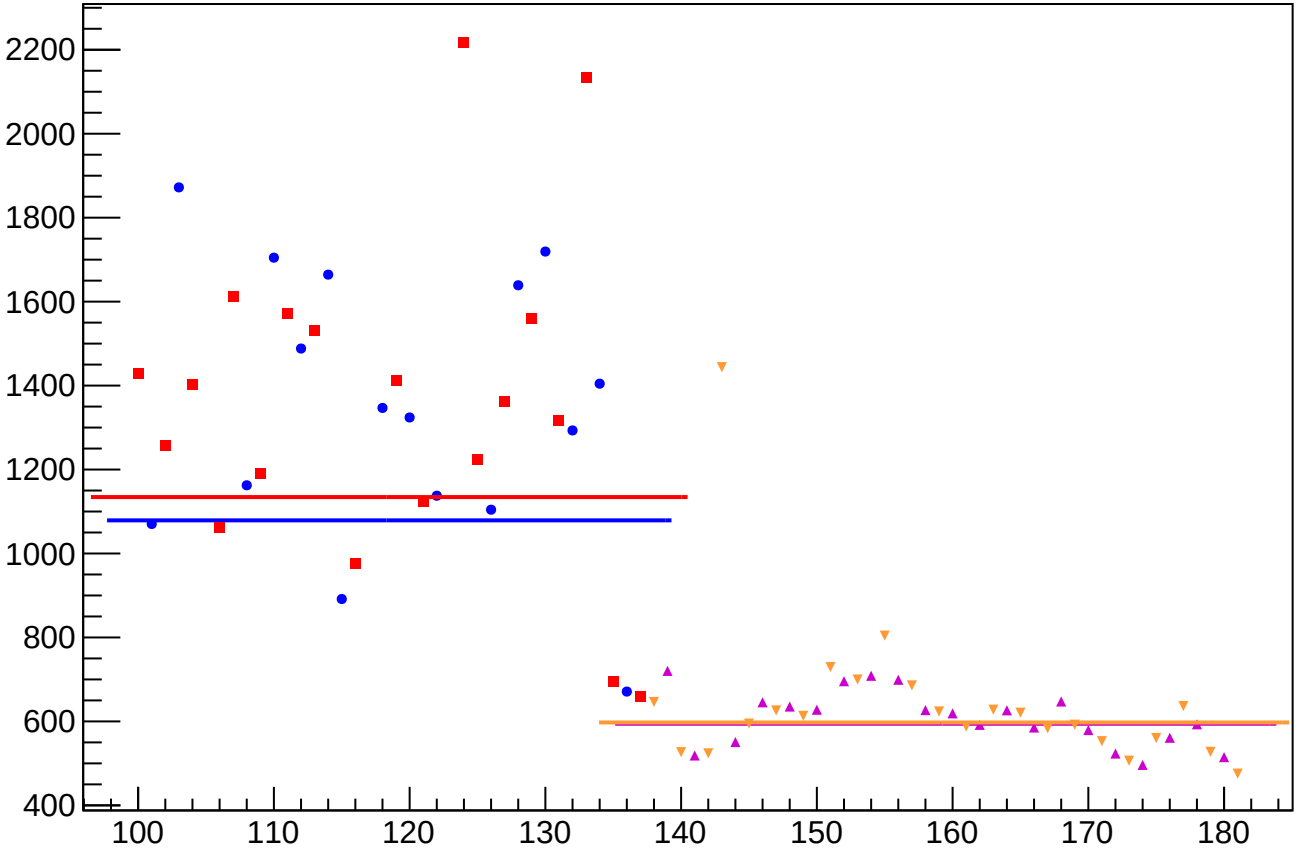
In: 1247.403+/-0.179 $\chi^2$/NDF:560858.2/36

Out: 1257.549+/-0.177 $\chi^2$/NDF:532131.7/41

All: 1252.554+/-0.126 $\chi^2$/NDF: 1094615.1/78


asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 954.146+/-425.660 χ²/NDF: 19.9/15
Left Out: 556.880+/-142.044 χ²/NDF:65.5/22
Right Out: -557.935+/-440.758 χ²/NDF: 18.4/18
Left In: -181.785+/-144.242 χ²/NDF:18.4/20
Left: 193.218+/-101.208 χ²/NDF: 97.2/43
Right: 224.446+/-306.186 χ²/NDF: 44.3/34
In: -64.782+/-136.611 χ²/NDF:44.7/36
Out: 451.990+/-135.196 χ²/NDF:89.7/41
All: 196.294+/-96.095 χ²/NDF: 141.6/78

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1078.932+/-0.301 $\chi^2$/NDF: 1478719.9/15

Left Out: 597.480+/-0.100 $\chi^2$/NDF:1066475.2/22

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 594.330+/-0.102 $\chi^2$/NDF:409059.0/20

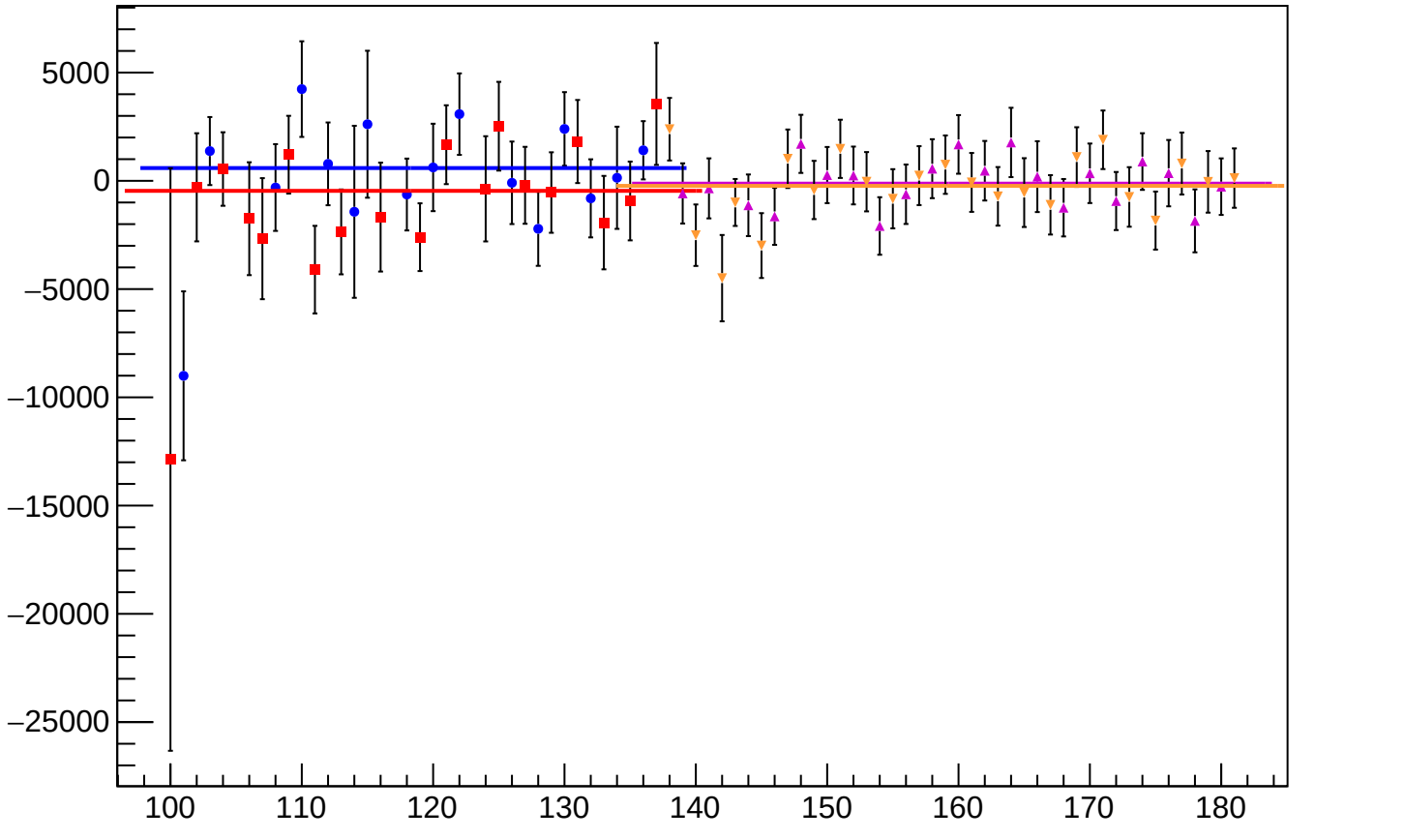
Left: 595.929+/-0.072 $\chi^2$/NDF: 1476018.5/43

Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 644.245+/-0.097 $\chi^2$/NDF:4213006.8/36

Out: 648.000+/-0.096 $\chi^2$/NDF:5044311.2/41

All: 646.142+/-0.068 $\chi^2$/NDF: 9258081.3/78




Right In: 590.322+/-485.483 $\chi^2$/NDF: 17.1/15

Left Out: -233.091+/-288.376 $\chi^2$/NDF:23.8/22

Right Out: -462.606+/-476.795 $\chi^2$/NDF: 16.7/18

Left In: -129.589+/-301.288 $\chi^2$/NDF:13.3/20

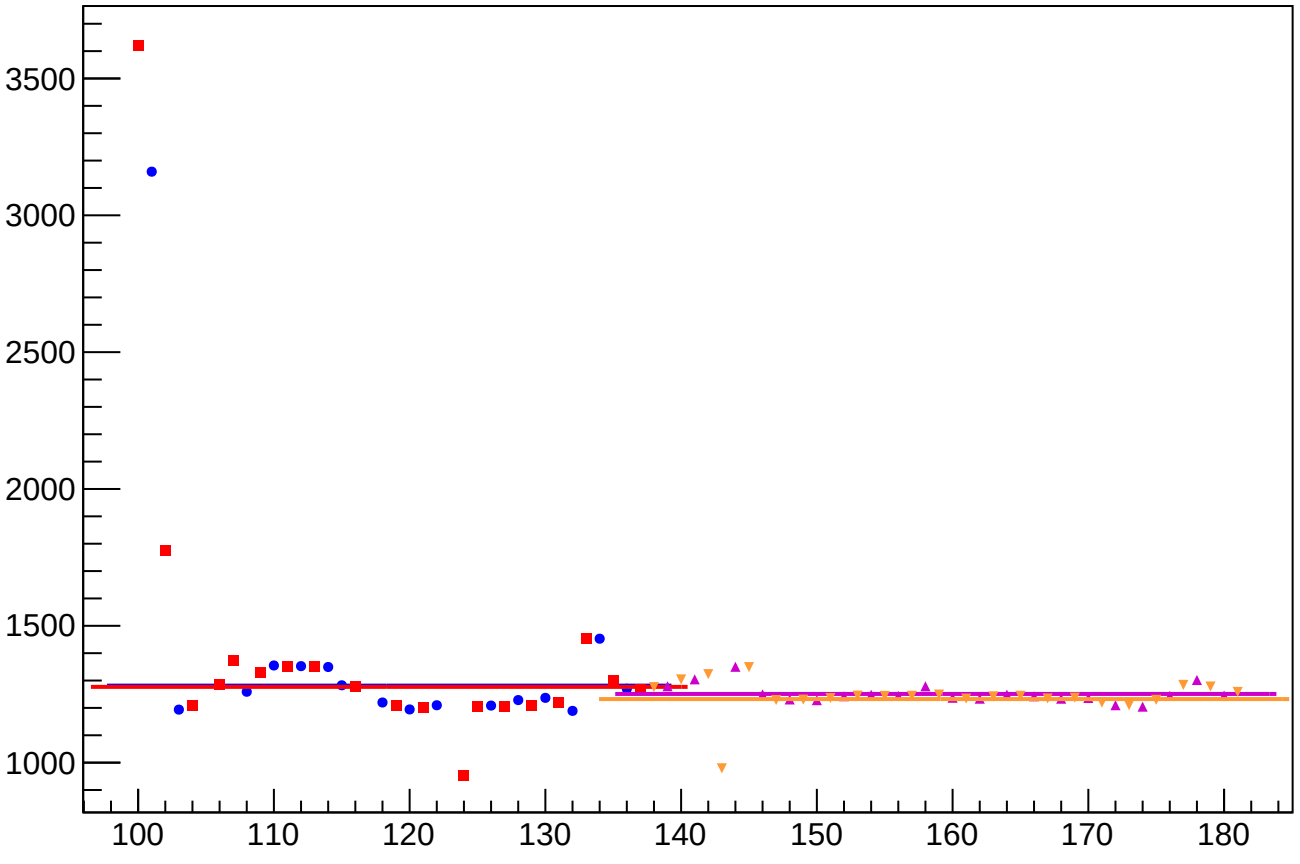
Left: -183.606+/-208.328 $\chi^2$/NDF: 37.2/43

Right: 54.353+/-340.175 $\chi^2$/NDF: 36.2/34

In: 70.583+/-255.997 $\chi^2$/NDF:32.0/36

Out: -294.563+/-246.754 $\chi^2$/NDF:40.7/41

All: -118.701+/-177.659 $\chi^2$/NDF: 73.7/78




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.4/15

Left Out: 1232.274+/-0.204 $\chi^2$/NDF:139412.3/22

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.6/18

Left In: 1251.042+/-0.213 $\chi^2$/NDF:23686.5/20

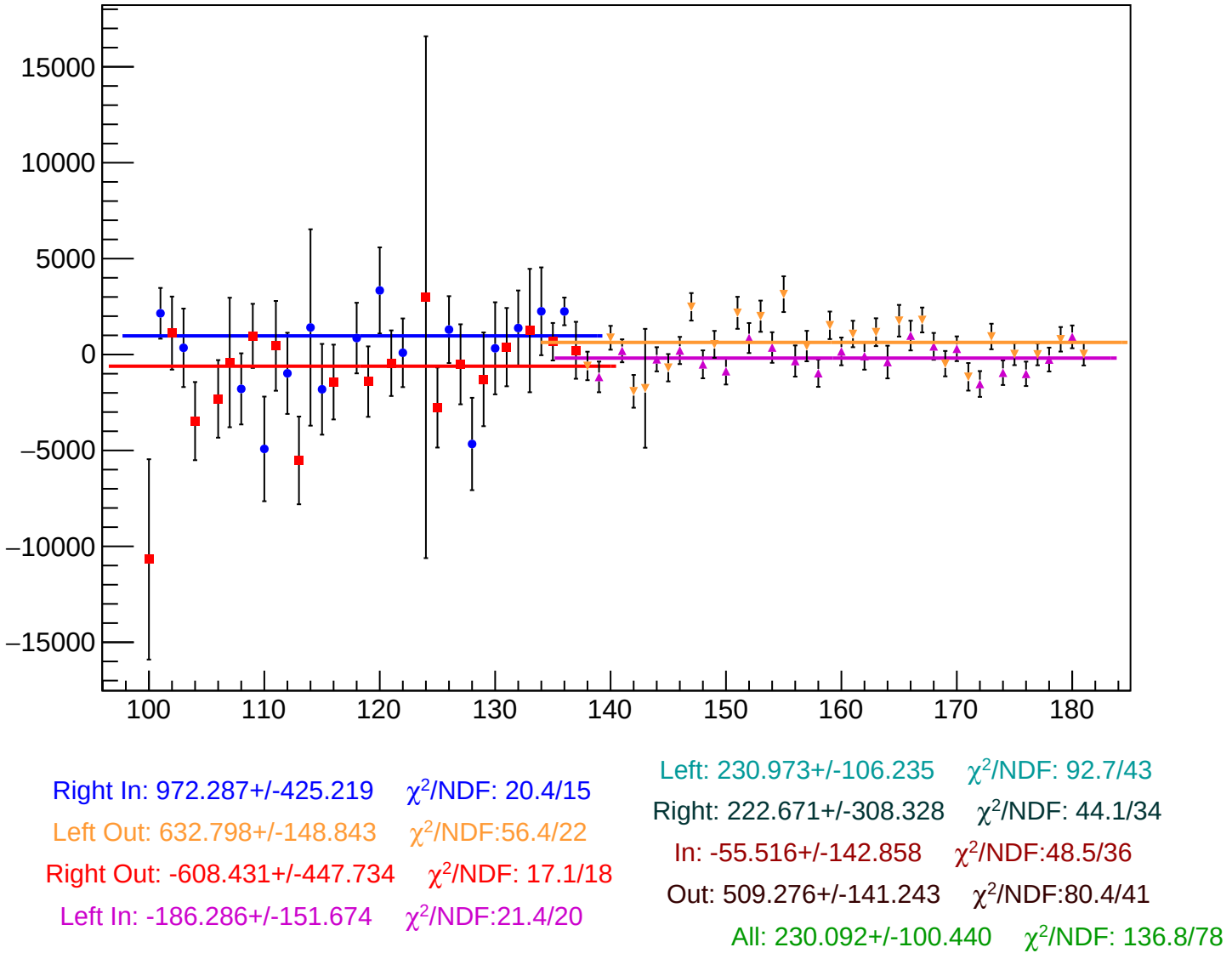
Left: 1241.247+/-0.147 $\chi^2$/NDF: 167148.7/43

Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

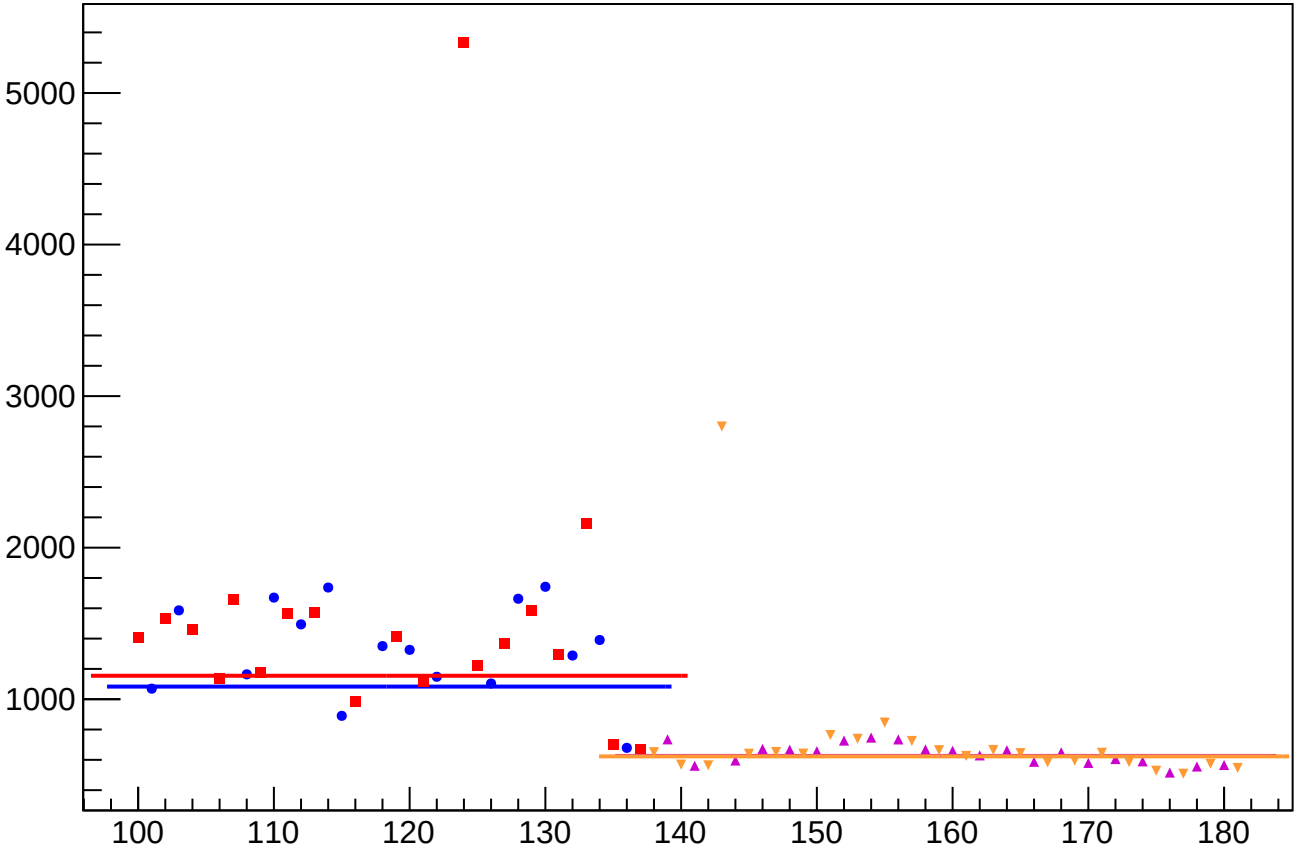
In: 1259.474+/-0.181 $\chi^2$/NDF:536399.4/36

Out: 1244.216+/-0.174 $\chi^2$/NDF:372730.7/41

All: 1251.565+/-0.126 $\chi^2$/NDF: 912813.1/78


asym_atl_dd_atr_dd_dd_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 972.287+/-425.219 χ²/NDF: 20.4/15
Left Out: 632.798+/-148.843 χ²/NDF:56.4/22
Right Out: -608.431+/-447.734 χ²/NDF: 17.1/18
Left In: -186.286+/-151.674 χ²/NDF:21.4/20
Left: 230.973+/-106.235 χ²/NDF: 92.7/43
Right: 222.671+/-308.328 χ²/NDF: 44.1/34
In: -55.516+/-142.858 χ²/NDF:48.5/36
Out: 509.276+/-141.243 χ²/NDF:80.4/41
All: 230.092+/-100.440 χ²/NDF: 136.8/78

asym_atl_dd_atr_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 1083.335+/-0.301 $\chi^2$/NDF: 1360153.3/15

Left Out: 622.823+/-0.105 $\chi^2$/NDF:1478157.2/22

Right Out: 1154.724+/-0.317 $\chi^2$/NDF: 1488304.5/18

Left In: 625.775+/-0.107 $\chi^2$/NDF:346031.4/20

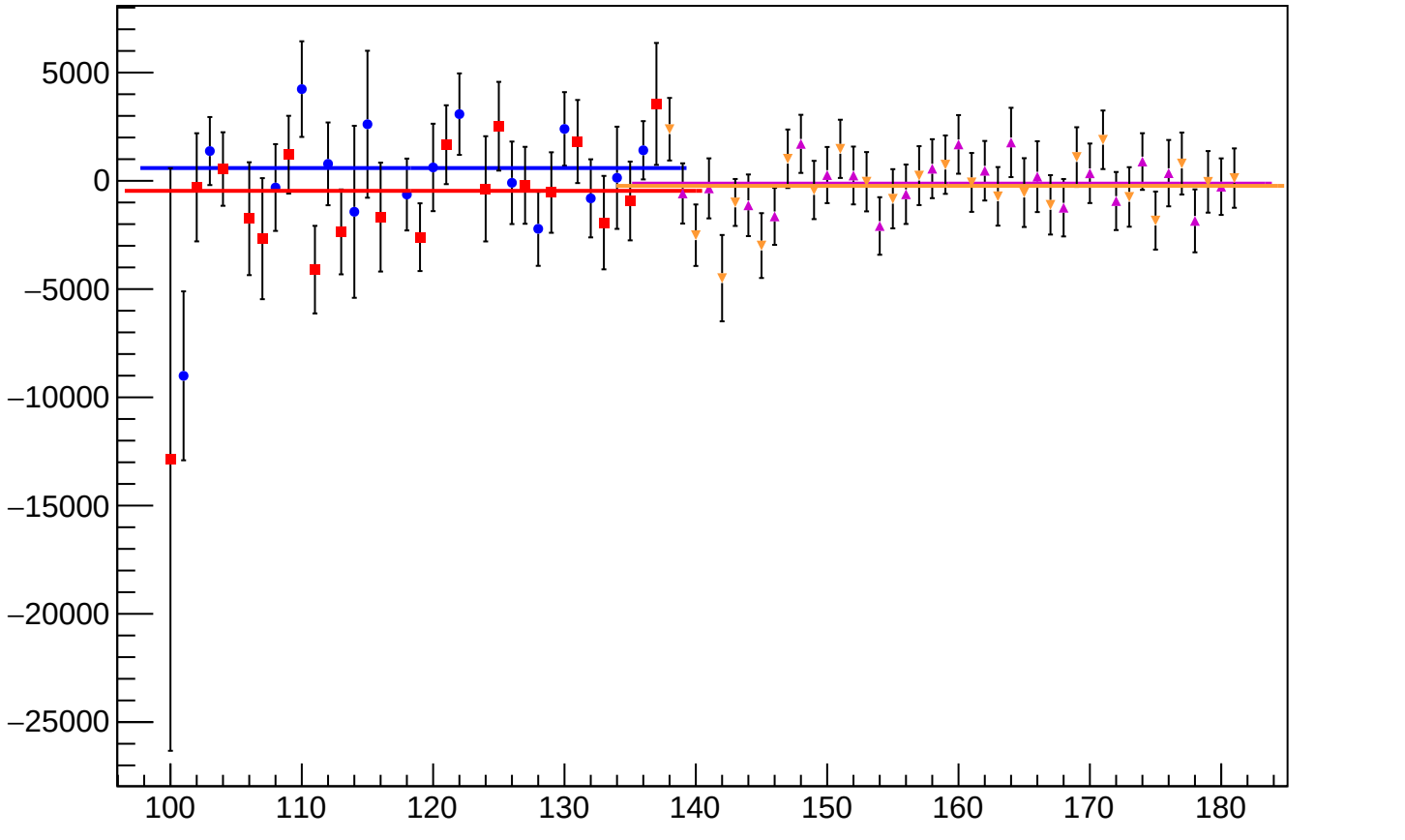
Left: 624.271+/-0.075 $\chi^2$/NDF: 1824574.7/43

Right: 1117.189+/-0.218 $\chi^2$/NDF: 2875191.7/34

In: 677.421+/-0.101 $\chi^2$/NDF:3760591.5/36

Out: 675.756+/-0.100 $\chi^2$/NDF:5508182.4/41

All: 676.579+/-0.071 $\chi^2$/NDF: 9268911.3/78




Right In: 590.323+/-485.483 $\chi^2$/NDF: 17.1/15

Left Out: -233.093+/-288.376 $\chi^2$/NDF:23.8/22

Right Out: -462.605+/-476.795 $\chi^2$/NDF: 16.7/18

Left In: -129.589+/-301.288 $\chi^2$/NDF:13.3/20

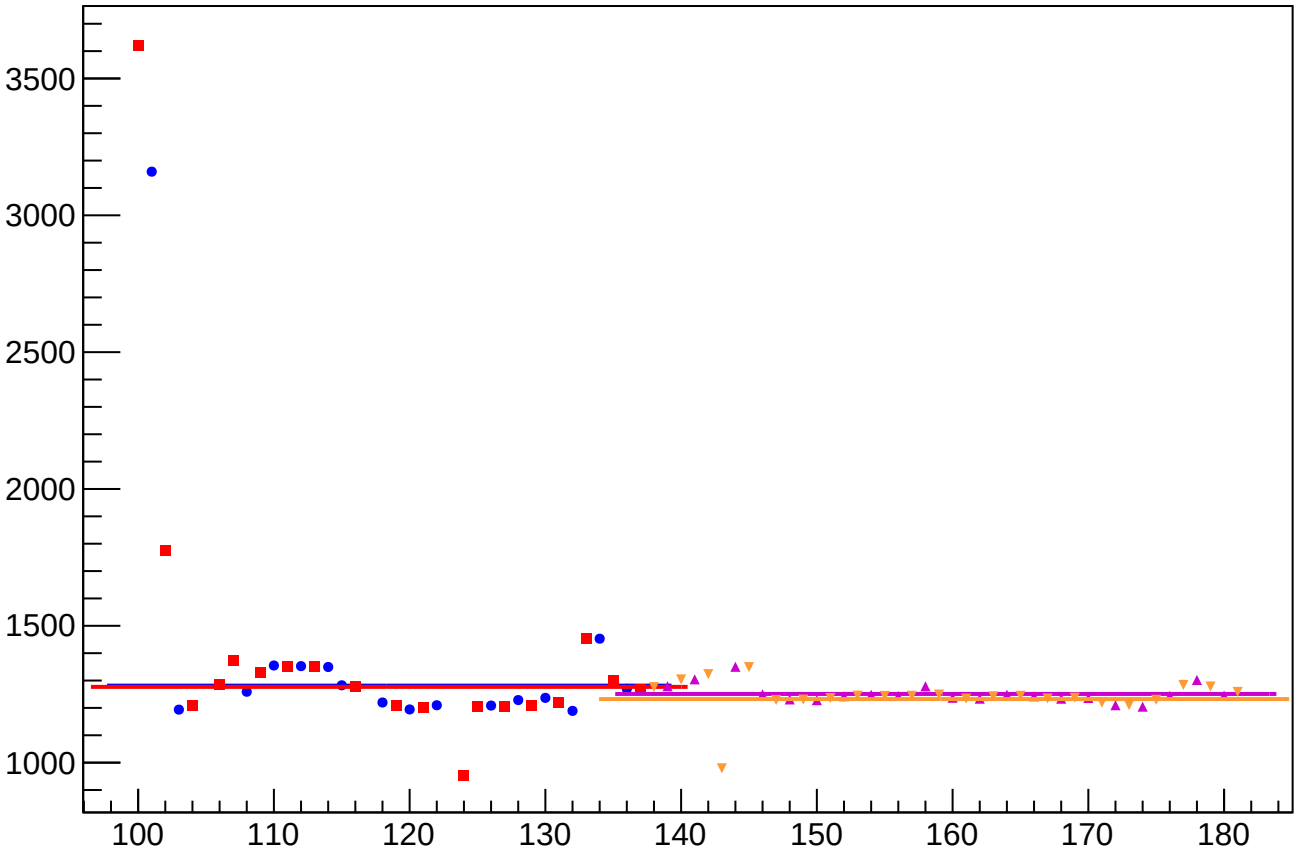
Left: -183.606+/-208.328 $\chi^2$/NDF: 37.2/43

Right: 54.354+/-340.175 $\chi^2$/NDF: 36.2/34

In: 70.583+/-255.997 $\chi^2$/NDF:32.0/36

Out: -294.564+/-246.754 $\chi^2$/NDF:40.7/41

All: -118.702+/-177.659 $\chi^2$/NDF: 73.7/78




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.6/15

Left Out: 1232.274+/-0.204 $\chi^2$/NDF:139411.4/22

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.5/18

Left In: 1251.041+/-0.213 $\chi^2$/NDF:23686.5/20

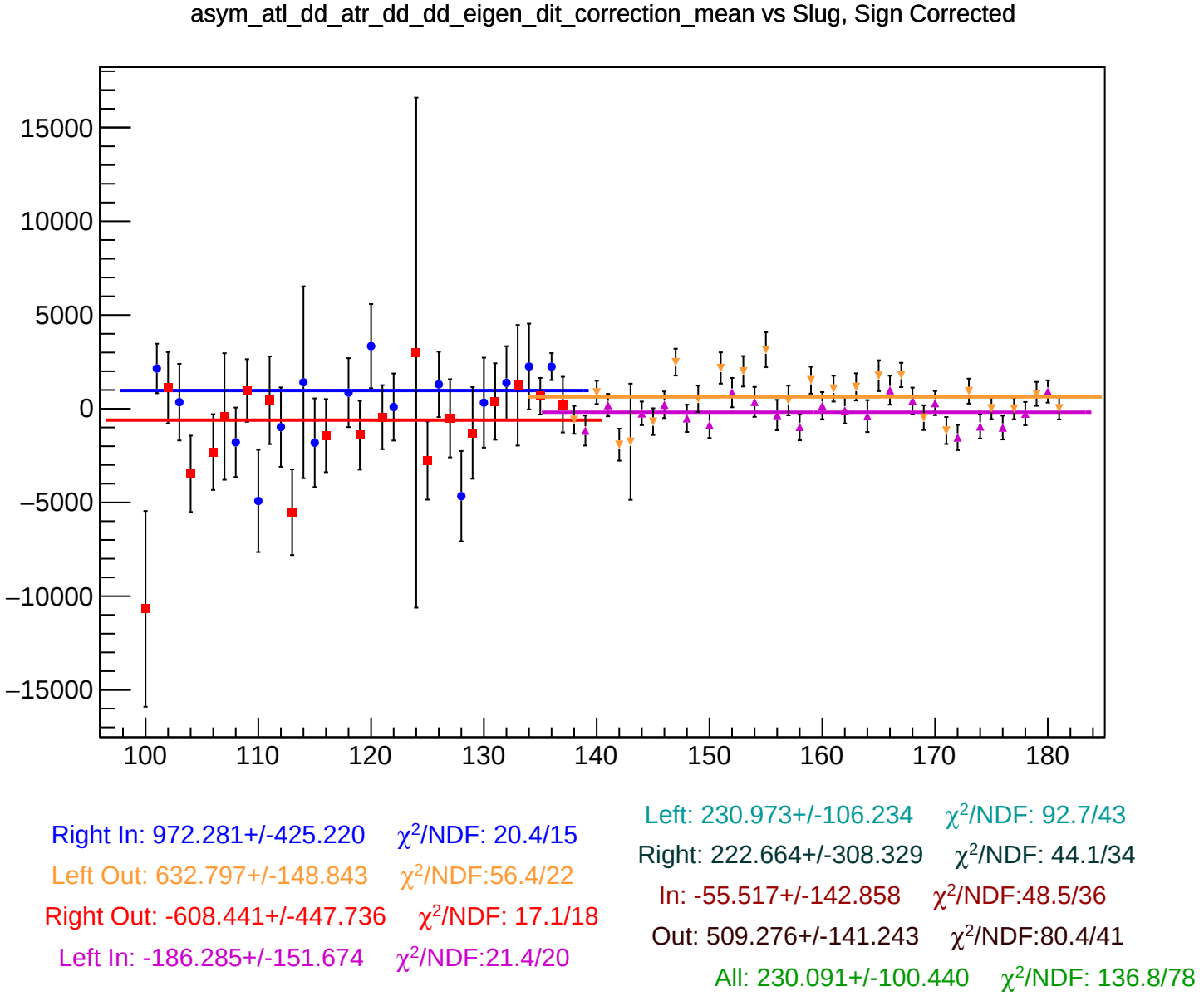
Left: 1241.247+/-0.147 $\chi^2$/NDF: 167147.7/43

Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

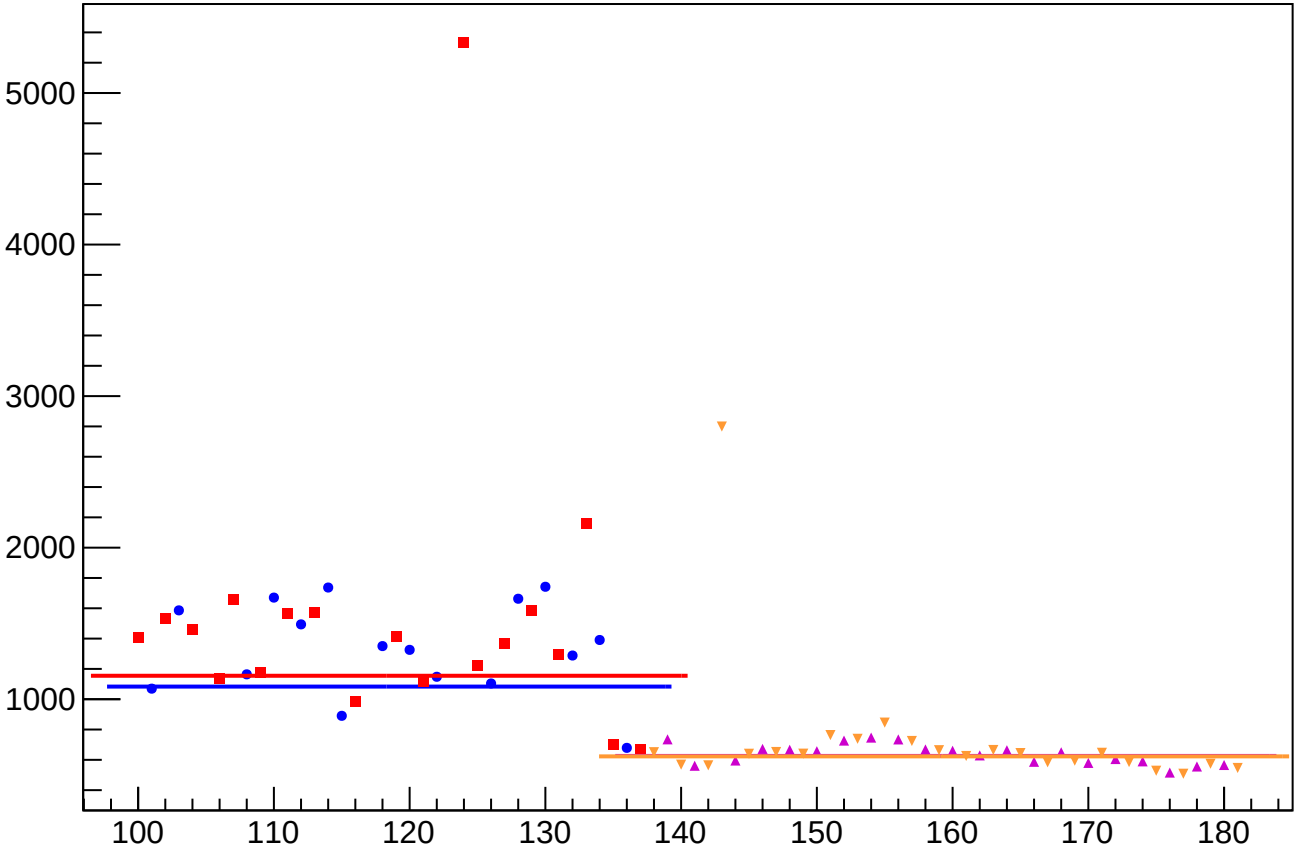
In: 1259.474+/-0.181 $\chi^2$/NDF:536399.5/36

Out: 1244.216+/-0.174 $\chi^2$/NDF:372729.6/41

All: 1251.565+/-0.126 $\chi^2$/NDF: 912812.2/78


asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 972.281+/-425.220 χ²/NDF: 20.4/15
Left Out: 632.797+/-148.843 χ²/NDF:56.4/22
Right Out: -608.441+/-447.736 χ²/NDF: 17.1/18
Left In: -186.285+/-151.674 χ²/NDF:21.4/20
Left: 230.973+/-106.234 χ²/NDF: 92.7/43
Right: 222.664+/-308.329 χ²/NDF: 44.1/34
In: -55.517+/-142.858 χ²/NDF:48.5/36
Out: 509.276+/-141.243 χ²/NDF:80.4/41
All: 230.091+/-100.440 χ²/NDF: 136.8/78

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1083.341+/-0.301 $\chi^2$/NDF: 1360095.7/15

Left Out: 622.823+/-0.105 $\chi^2$/NDF:1478156.7/22

Right Out: 1154.732+/-0.317 $\chi^2$/NDF: 1488251.4/18

Left In: 625.774+/-0.107 $\chi^2$/NDF:346038.2/20

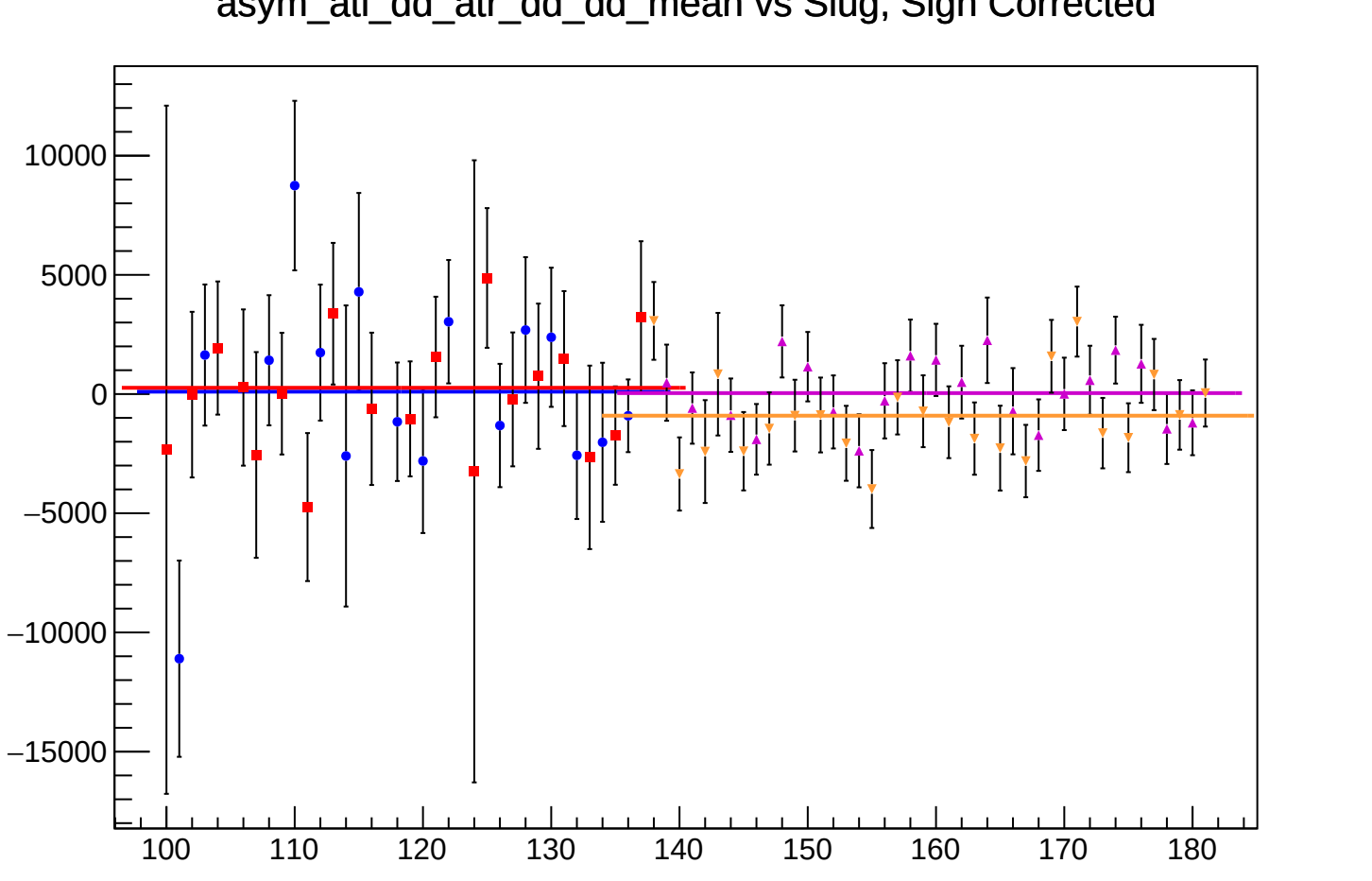
Left: 624.271+/-0.075 $\chi^2$/NDF: 1824580.7/43

Right: 1117.196+/-0.218 $\chi^2$/NDF: 2875081.4/34

In: 677.420+/-0.101 $\chi^2$/NDF:3760593.6/36

Out: 675.756+/-0.100 $\chi^2$/NDF:5508182.6/41

All: 676.578+/-0.071 $\chi^2$/NDF: 9268913.5/78




Right In: 100.451+/-698.983 $\chi^2$/NDF: 21.3/15

Left Out: -907.432+/-327.414 $\chi^2$/NDF:29.6/22

Right Out: 262.731+/-699.724 $\chi^2$/NDF: 10.3/18

Left In: 40.582+/-332.765 $\chi^2$/NDF:17.1/20

Left: -441.109+/-233.385 $\chi^2$/NDF: 50.8/43

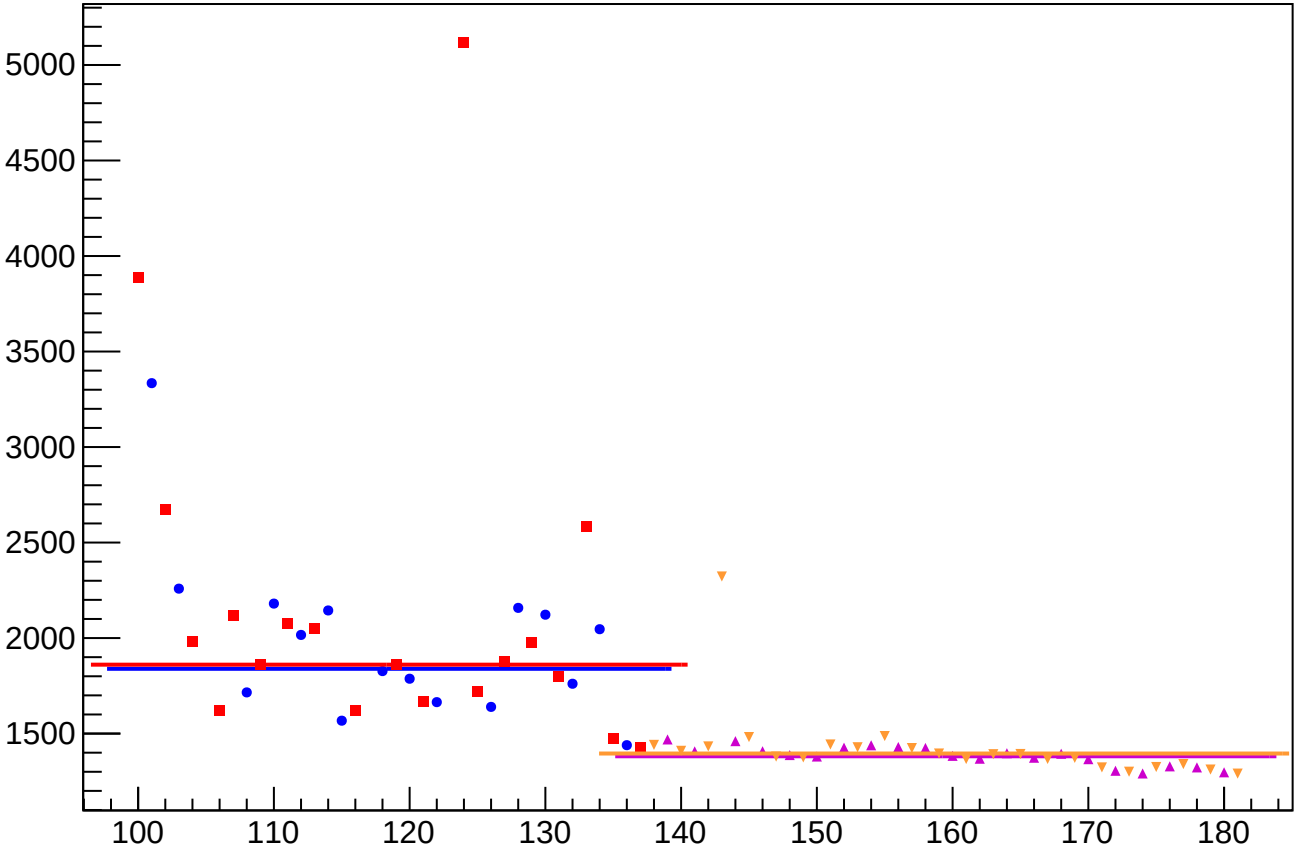
Right: 181.505+/-494.518 $\chi^2$/NDF: 31.6/34

In: 51.644+/-300.454 $\chi^2$/NDF:38.4/36

Out: -697.247+/-296.554 $\chi^2$/NDF:42.3/41

All: -327.694+/-211.061 $\chi^2$/NDF: 83.8/78

# asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected




Right In: 1839.113+/-0.494 $\chi^2$/NDF: 556725.4/15

Left Out: 1395.593+/-0.232 $\chi^2$/NDF:318108.5/22

Right Out: 1860.754+/-0.495 $\chi^2$/NDF: 522114.2/18

Left In: 1381.208+/-0.235 $\chi^2$/NDF:47958.1/20

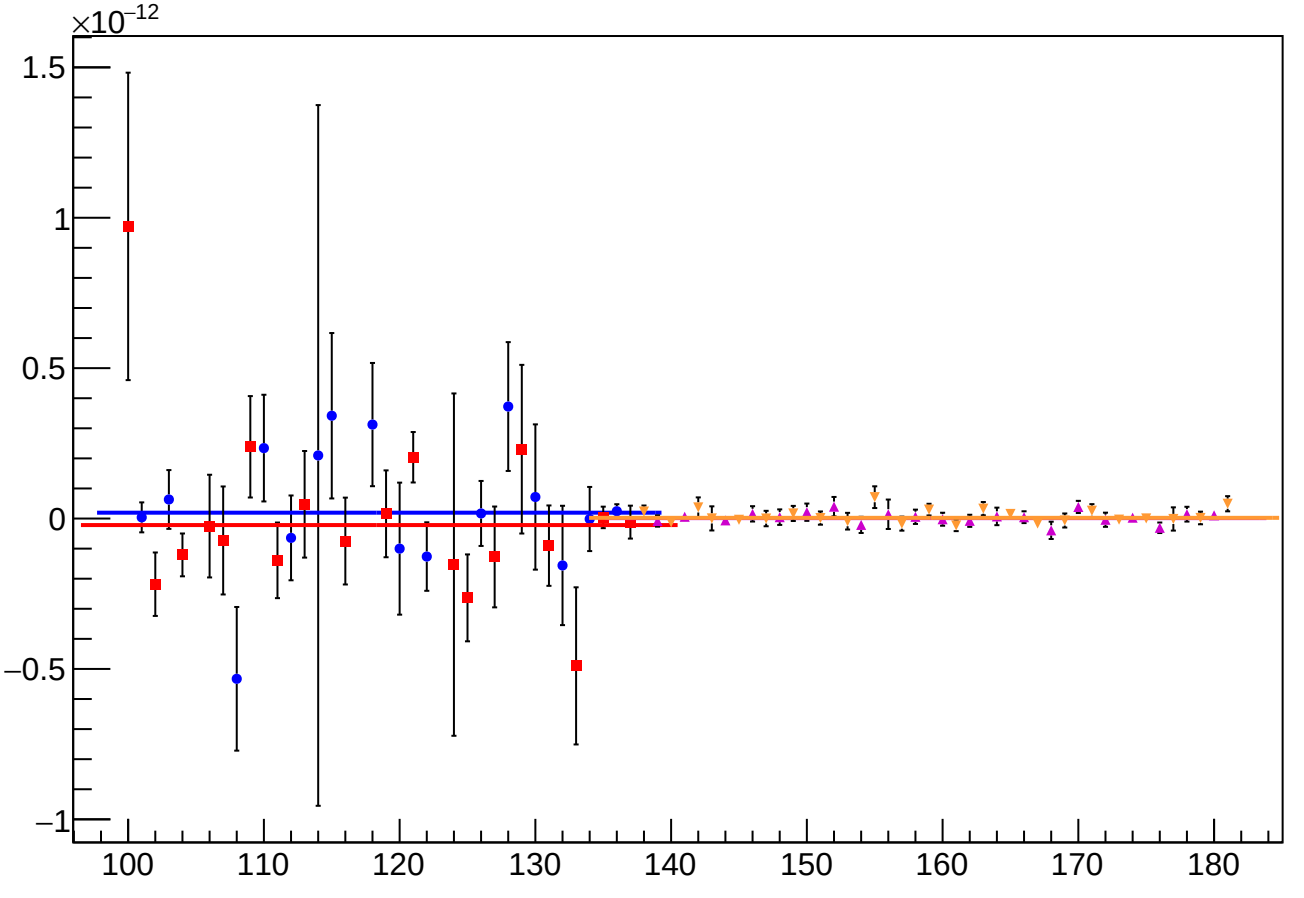
Left: 1388.517+/-0.165 $\chi^2$/NDF: 367965.6/43

Right: 1849.922+/-0.350 $\chi^2$/NDF: 1079797.1/34

In: 1465.814+/-0.212 $\chi^2$/NDF:1304415.5/36

Out: 1479.146+/-0.210 $\chi^2$/NDF:1565336.8/41

All: 1472.567+/-0.149 $\chi^2$/NDF: 2871747.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.4/20

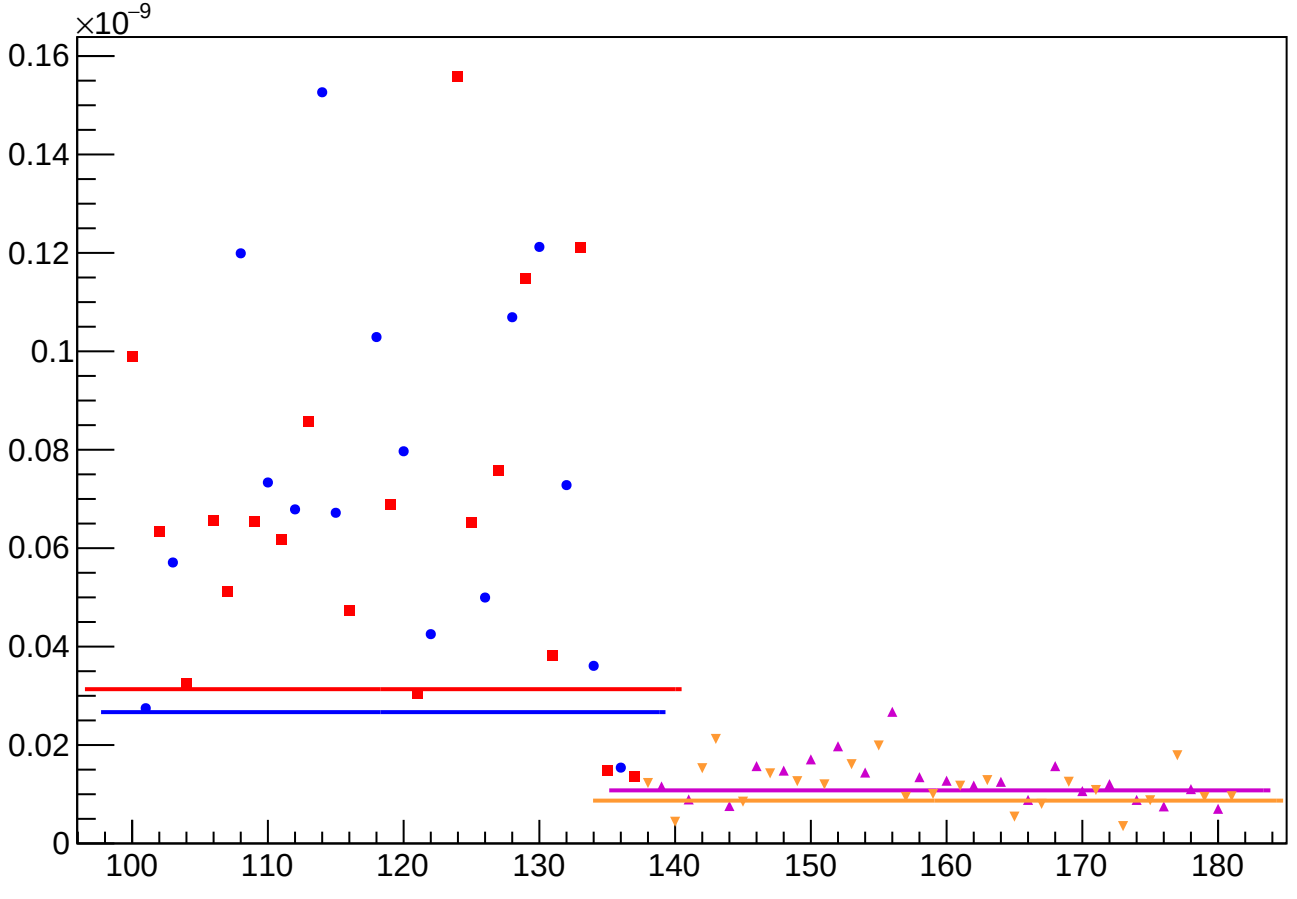
Left: 0.000+/-0.000 $\chi^2$/NDF: 35.7/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 46.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:30.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:51.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 82.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2580672.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2119432.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2275167.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1133312.5/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3493835.0/43

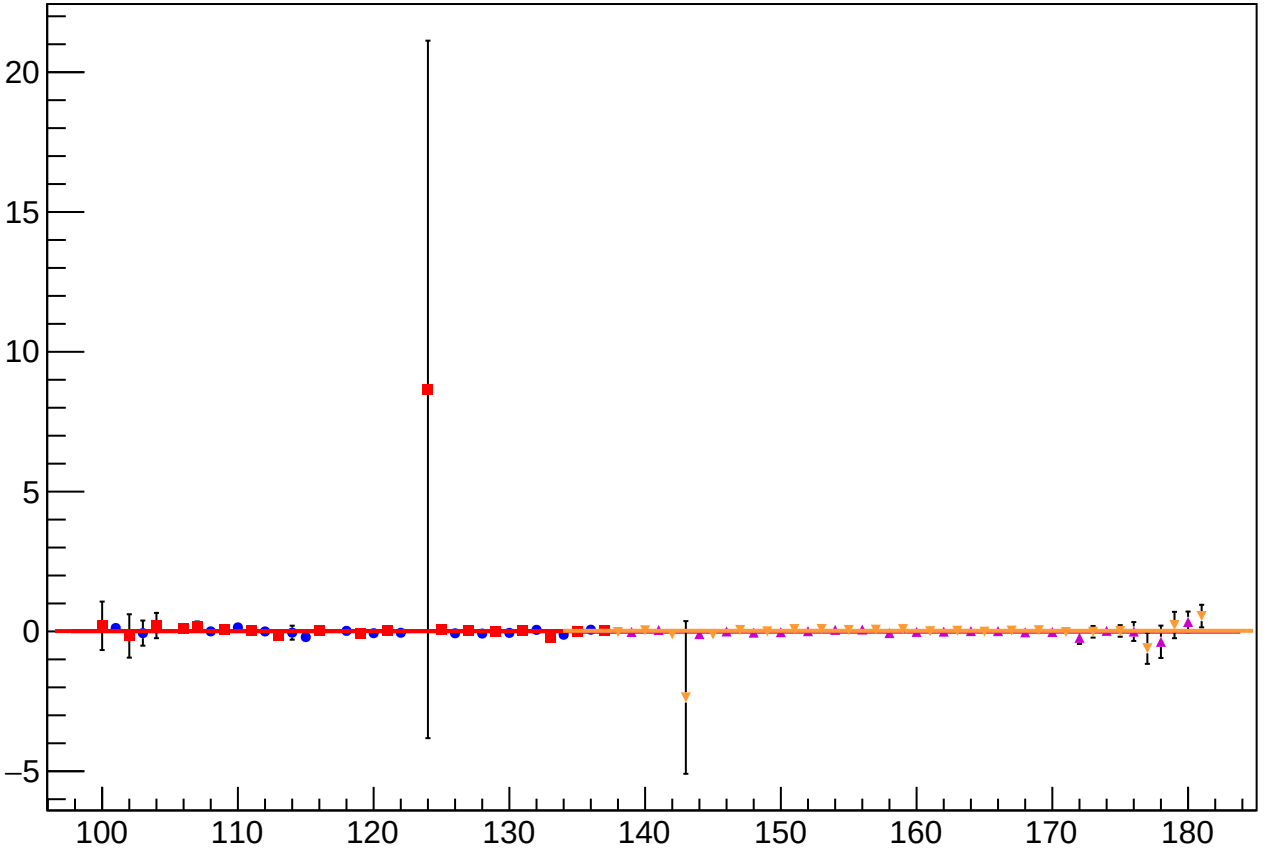
Right: 0.000+/-0.000 $\chi^2$/NDF: 4906978.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5064435.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6395972.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11764813.3/78

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: 0.023+/-0.010 $\chi^2$/NDF:21.3/22

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.010+/-0.010 $\chi^2$/NDF:13.1/20

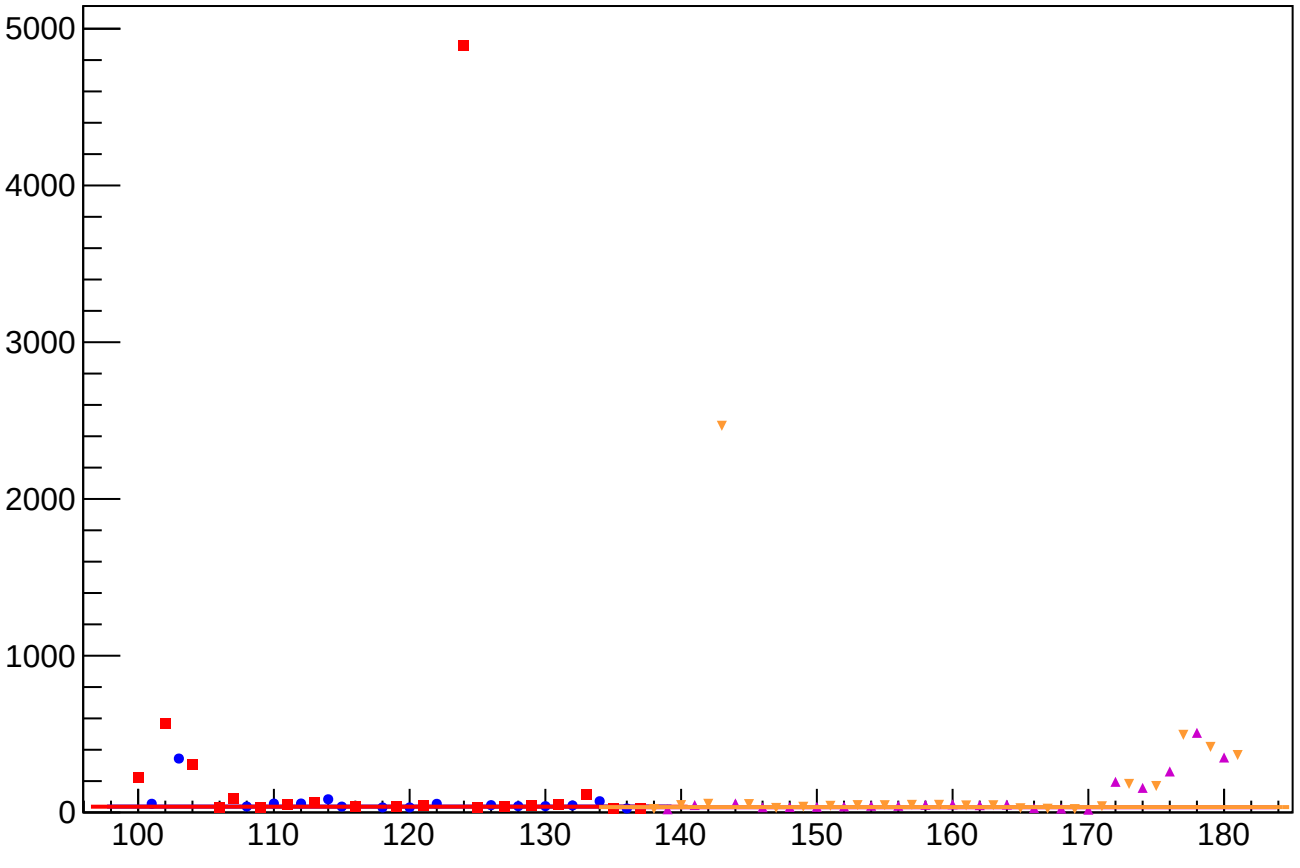
Left: 0.006+/-0.007 $\chi^2$/NDF: 39.8/43

Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.008 $\chi^2$/NDF:33.4/36

Out: 0.020+/-0.009 $\chi^2$/NDF:34.1/41

All: 0.007+/-0.006 $\chi^2$/NDF: 71.8/78




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 34.216+/-0.007 $\chi^2$/NDF:9907186.8/22

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 33.186+/-0.007 $\chi^2$/NDF:8540974.9/20

Left: 33.687+/-0.005 $\chi^2$/NDF: 18458585.6/43

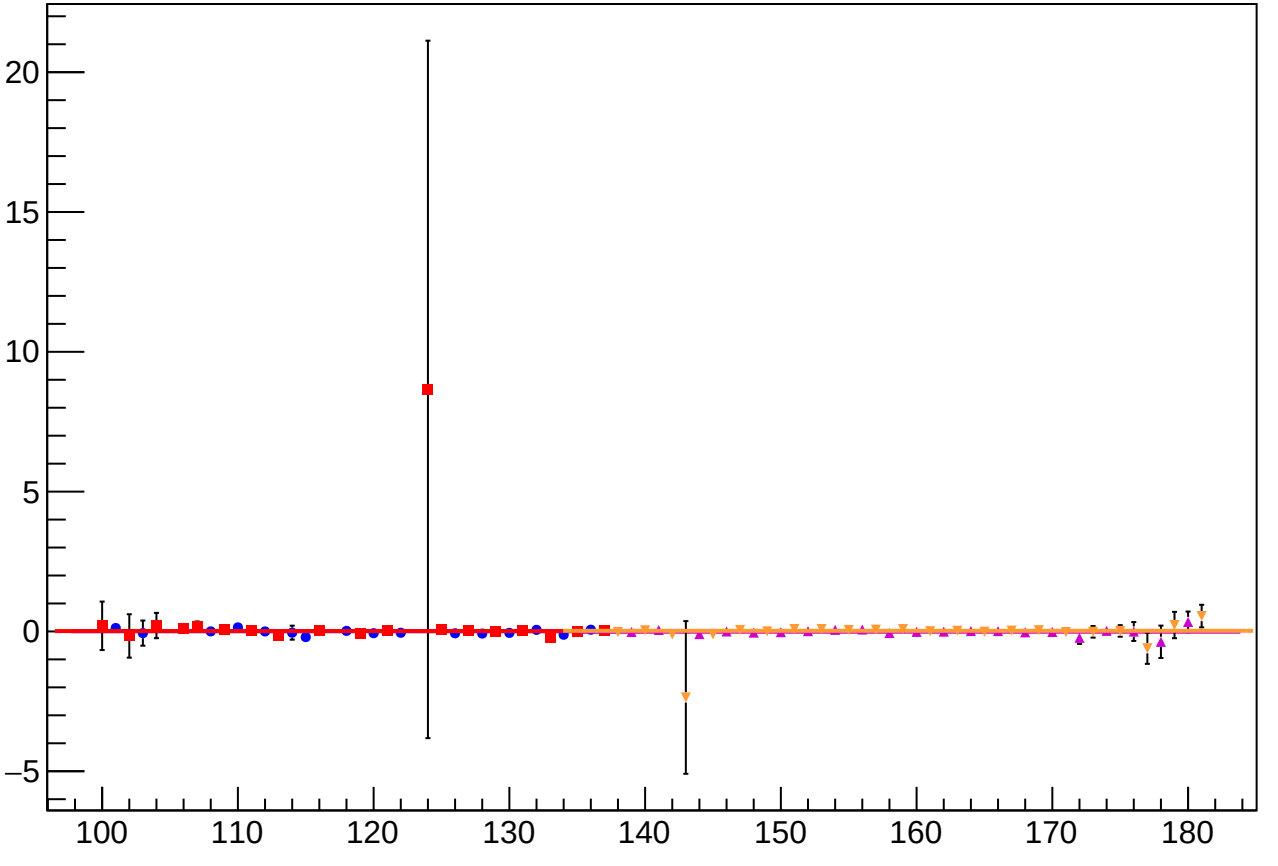
Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 34.379+/-0.006 $\chi^2$/NDF:10628077.6/36

Out: 34.915+/-0.006 $\chi^2$/NDF:13132100.8/41

All: 34.640+/-0.004 $\chi^2$/NDF: 23764082.0/78

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: 0.023+/-0.010 $\chi^2$/NDF:21.3/22

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.010+/-0.010 $\chi^2$/NDF:13.1/20

Left: 0.006+/-0.007 $\chi^2$/NDF: 39.8/43

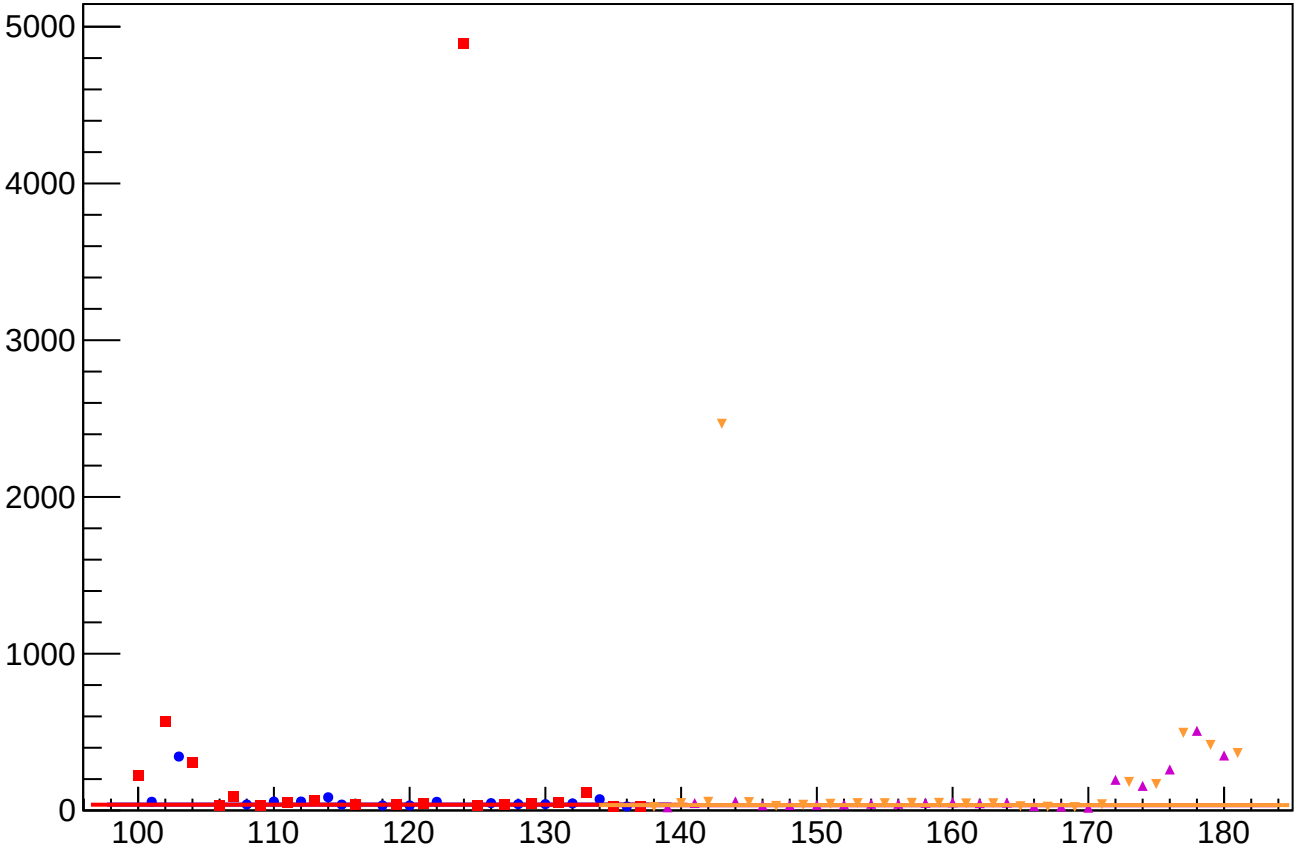
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.008 $\chi^2$/NDF:33.4/36

Out: 0.020+/-0.009 $\chi^2$/NDF:34.1/41

All: 0.007+/-0.006 $\chi^2$/NDF: 71.8/78

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 34.216+/-0.007 $\chi^2$/NDF:9907186.8/22

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 33.186+/-0.007 $\chi^2$/NDF:8540974.9/20

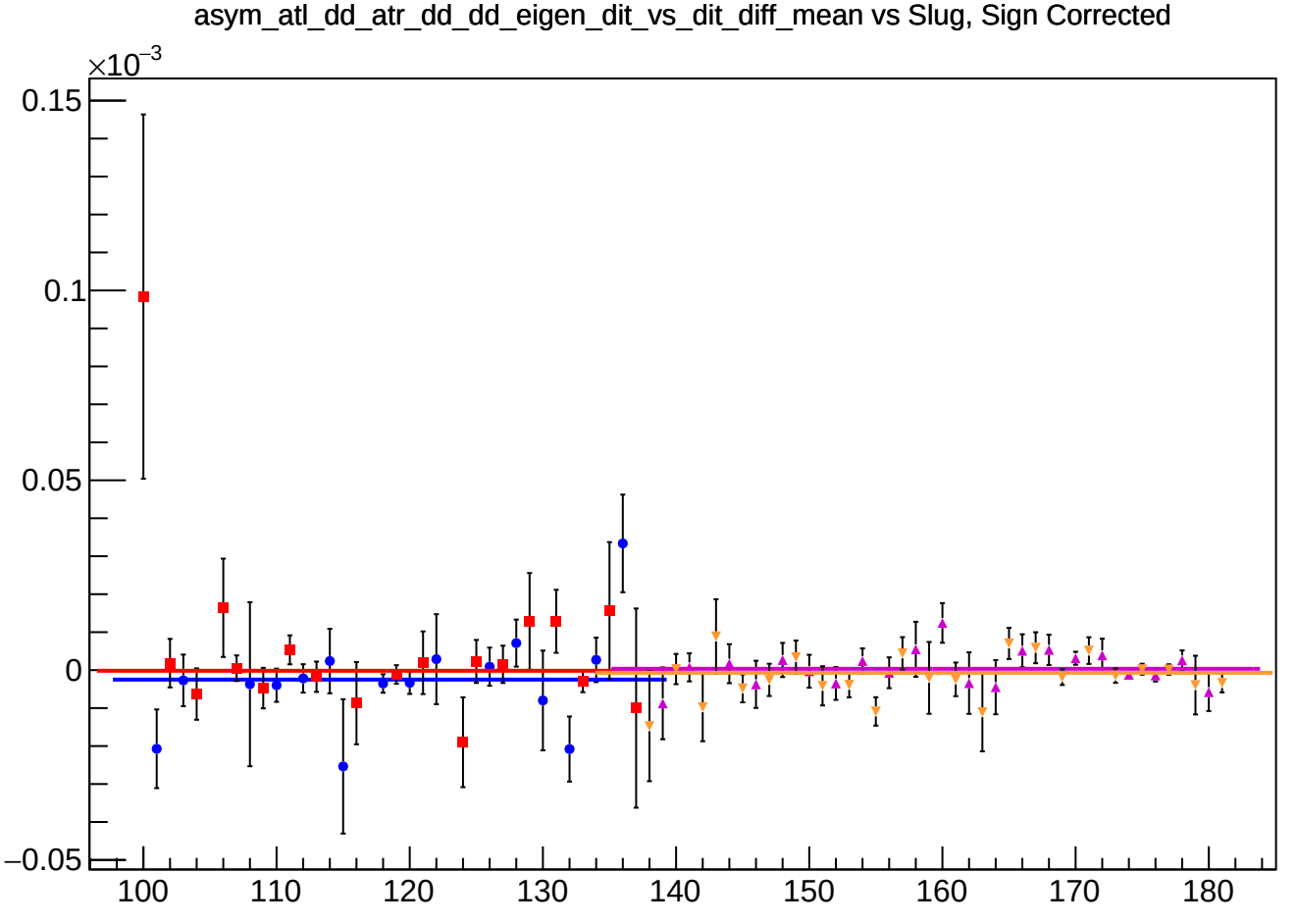
Left: 33.687+/-0.005 $\chi^2$/NDF: 18458585.6/43

Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 34.379+/-0.006 $\chi^2$/NDF:10628077.6/36

Out: 34.915+/-0.006 $\chi^2$/NDF:13132100.8/41

All: 34.640+/-0.004 $\chi^2$/NDF: 23764082.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.1/20

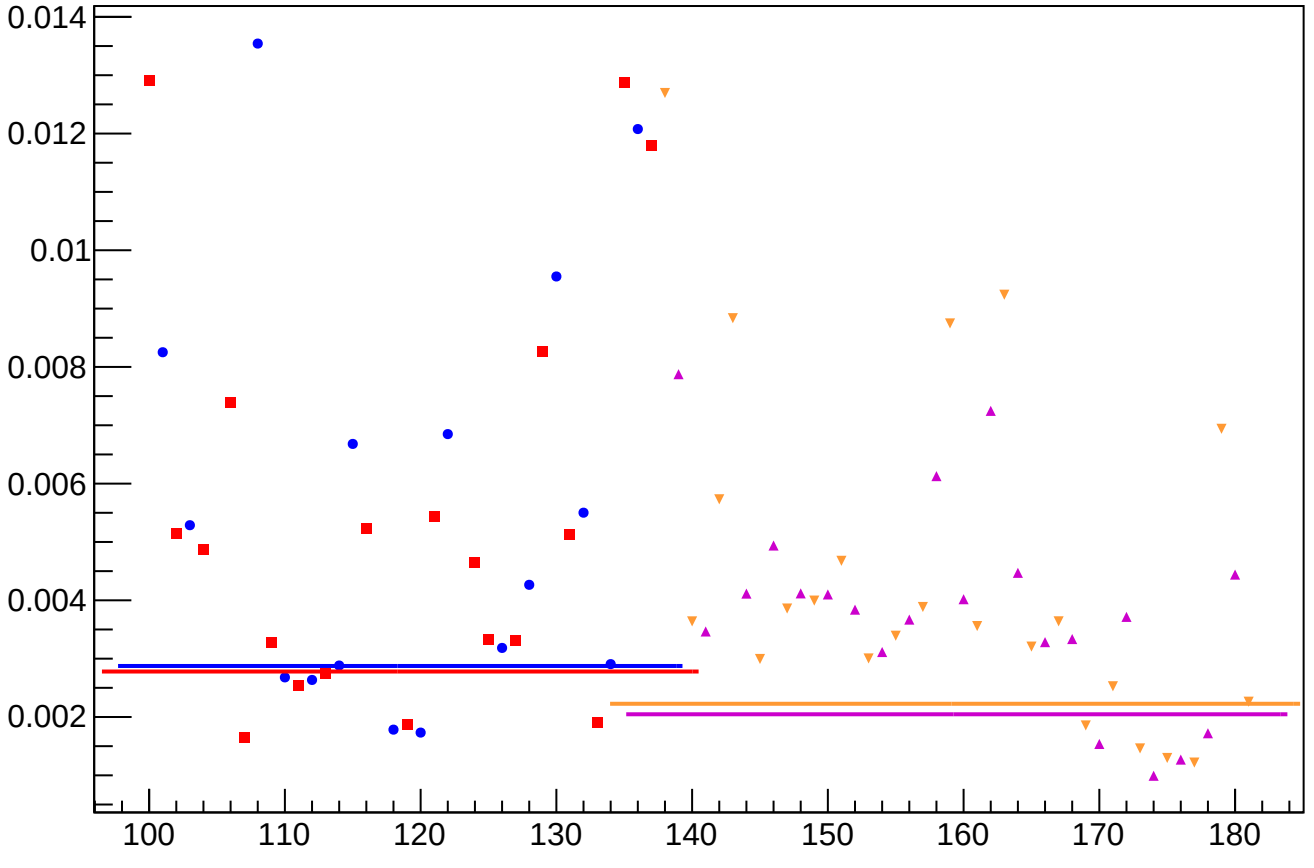
Left: -0.000+/-0.000 $\chi^2$/NDF: 50.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:46.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:47.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 94.4/78




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4152056.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:9759075.4/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3311178.7/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:9246141.6/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 19086272.8/43

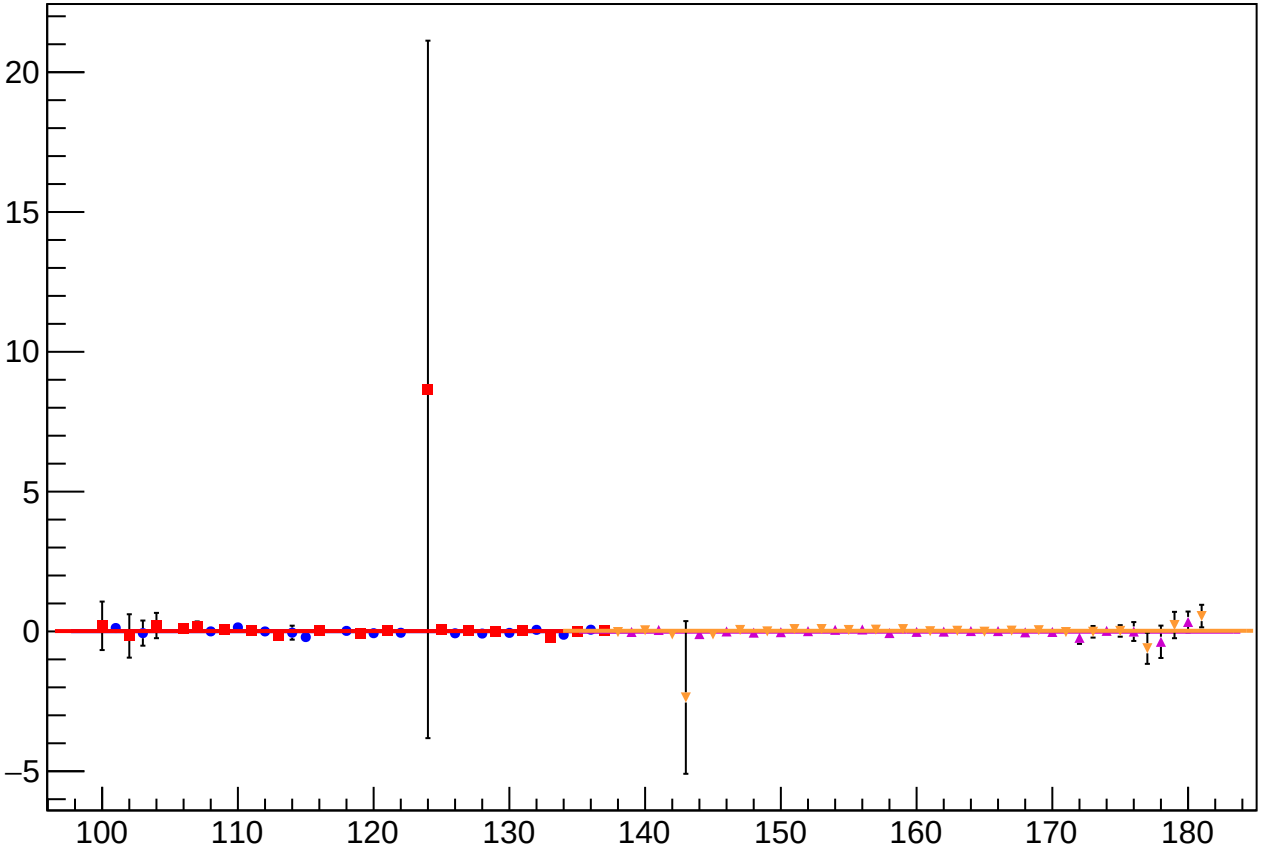
Right: 0.003+/-0.000 $\chi^2$/NDF: 7469105.0/34

In: 0.002+/-0.000 $\chi^2$/NDF:14049916.5/36

Out: 0.002+/-0.000 $\chi^2$/NDF:13414637.1/41

All: 0.002+/-0.000 $\chi^2$/NDF: 27532220.3/78

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: 0.023+/-0.010 $\chi^2$/NDF:21.3/22

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.010+/-0.010 $\chi^2$/NDF:13.1/20

Left: 0.006+/-0.007 $\chi^2$/NDF: 39.8/43

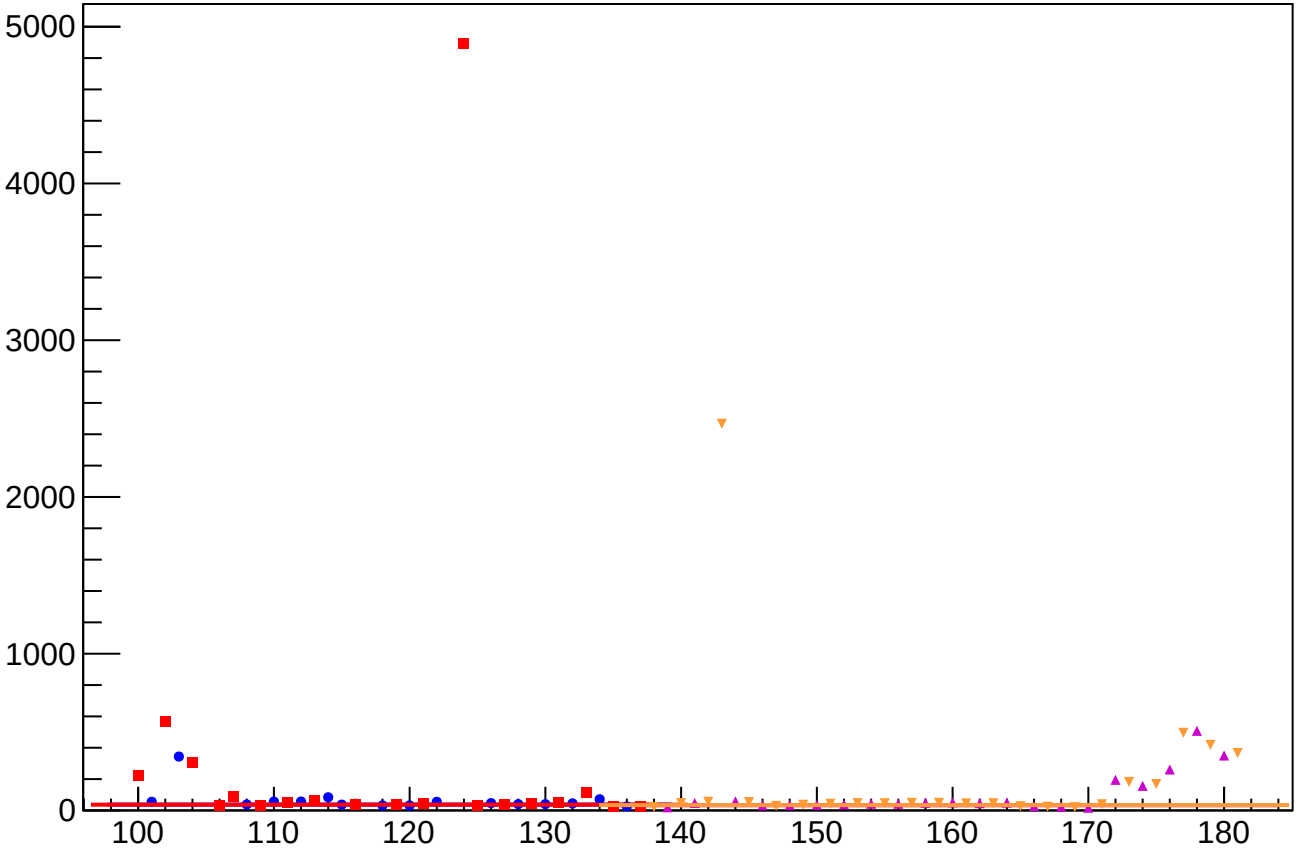
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.008 $\chi^2$/NDF:33.4/36

Out: 0.020+/-0.009 $\chi^2$/NDF:34.1/41

All: 0.007+/-0.006 $\chi^2$/NDF: 71.8/78

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 34.215+/-0.007 $\chi^2$/NDF:9907284.4/22

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 33.188+/-0.007 $\chi^2$/NDF:8539738.7/20

Left: 33.688+/-0.005 $\chi^2$/NDF: 18457381.8/43

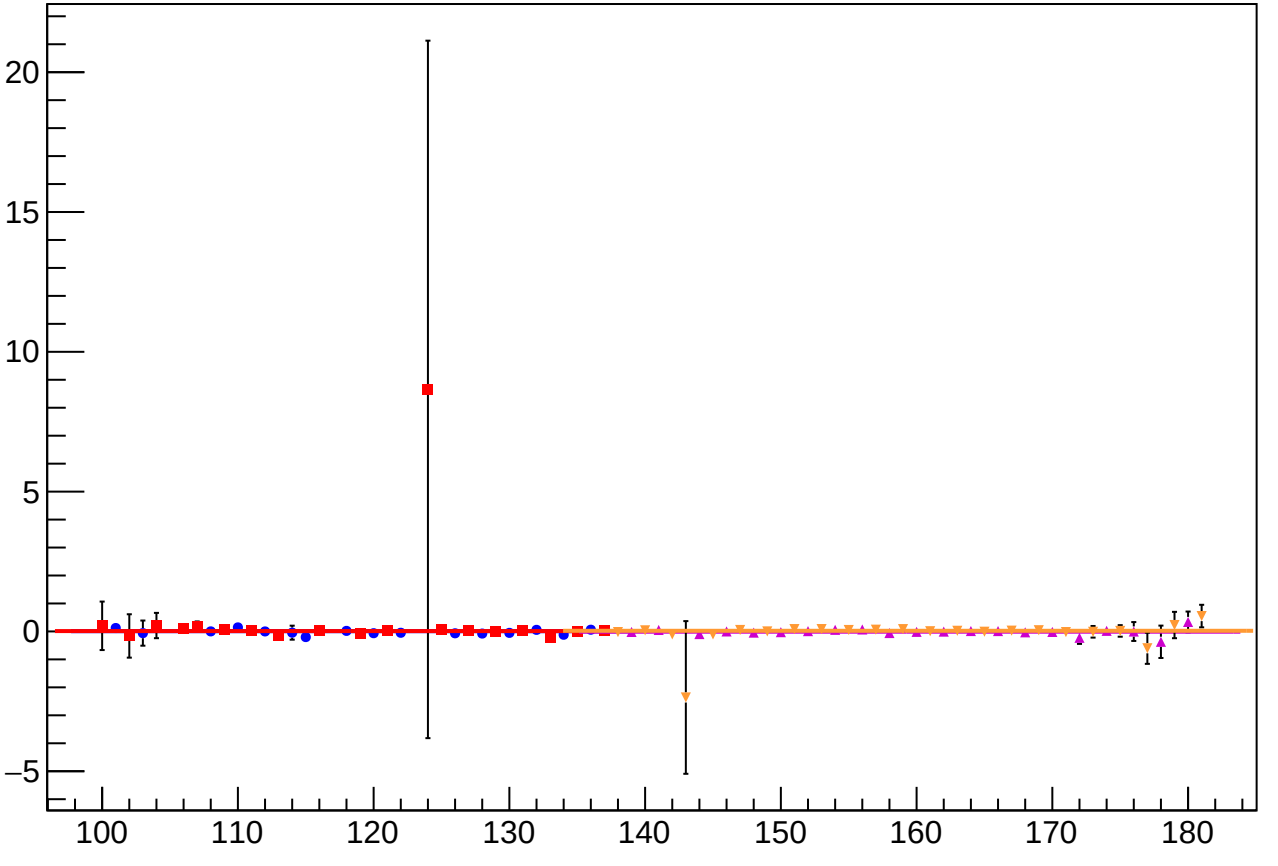
Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 34.381+/-0.006 $\chi^2$/NDF:10626685.8/36

Out: 34.915+/-0.006 $\chi^2$/NDF:13131968.8/41

All: 34.641+/-0.004 $\chi^2$/NDF: 23762527.7/78

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: 0.023+/-0.010 $\chi^2$/NDF:21.3/22

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.010+/-0.010 $\chi^2$/NDF:13.1/20

Left: 0.006+/-0.007 $\chi^2$/NDF: 39.8/43

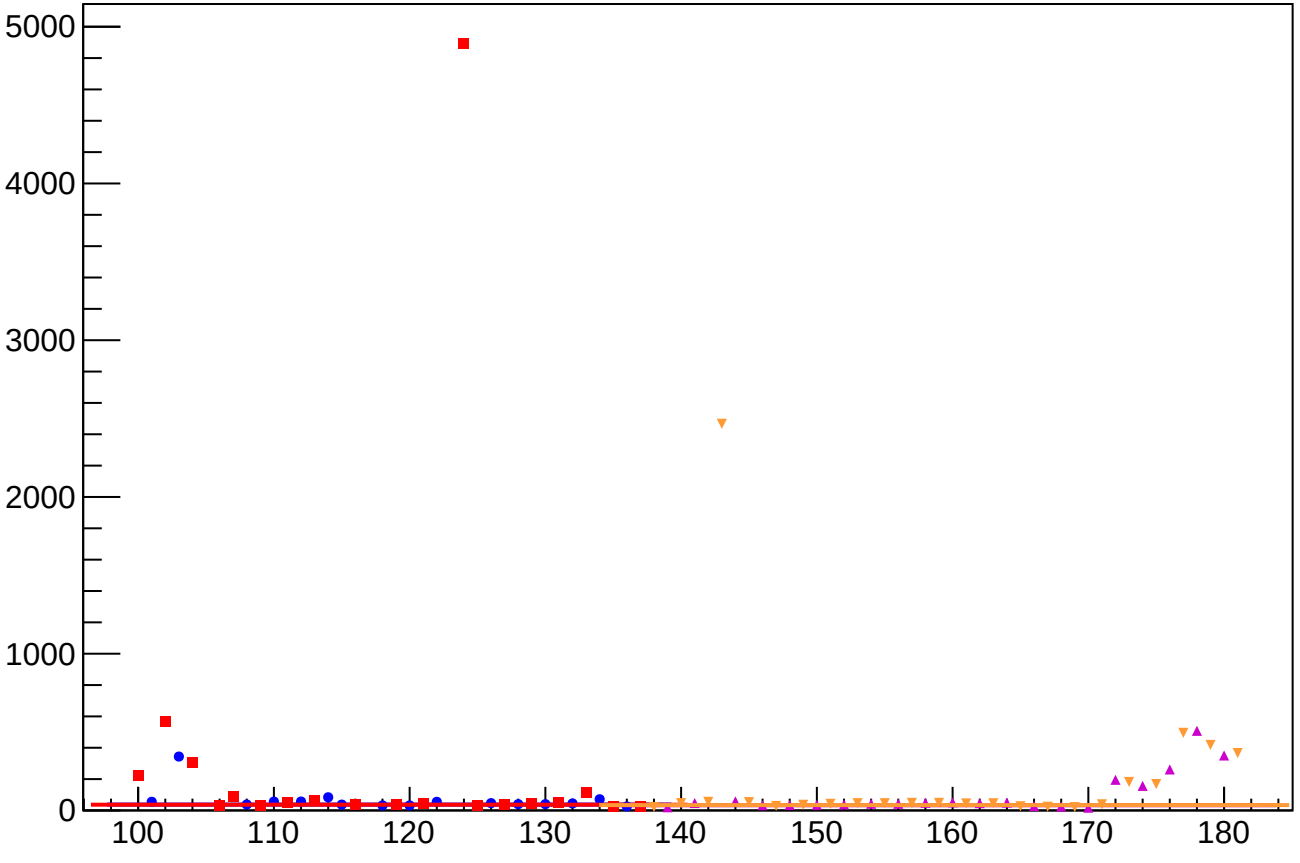
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.008 $\chi^2$/NDF:33.4/36

Out: 0.020+/-0.009 $\chi^2$/NDF:34.1/41

All: 0.007+/-0.006 $\chi^2$/NDF: 71.8/78

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 34.215+/-0.007 $\chi^2$/NDF:9907284.4/22

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 33.188+/-0.007 $\chi^2$/NDF:8539738.7/20

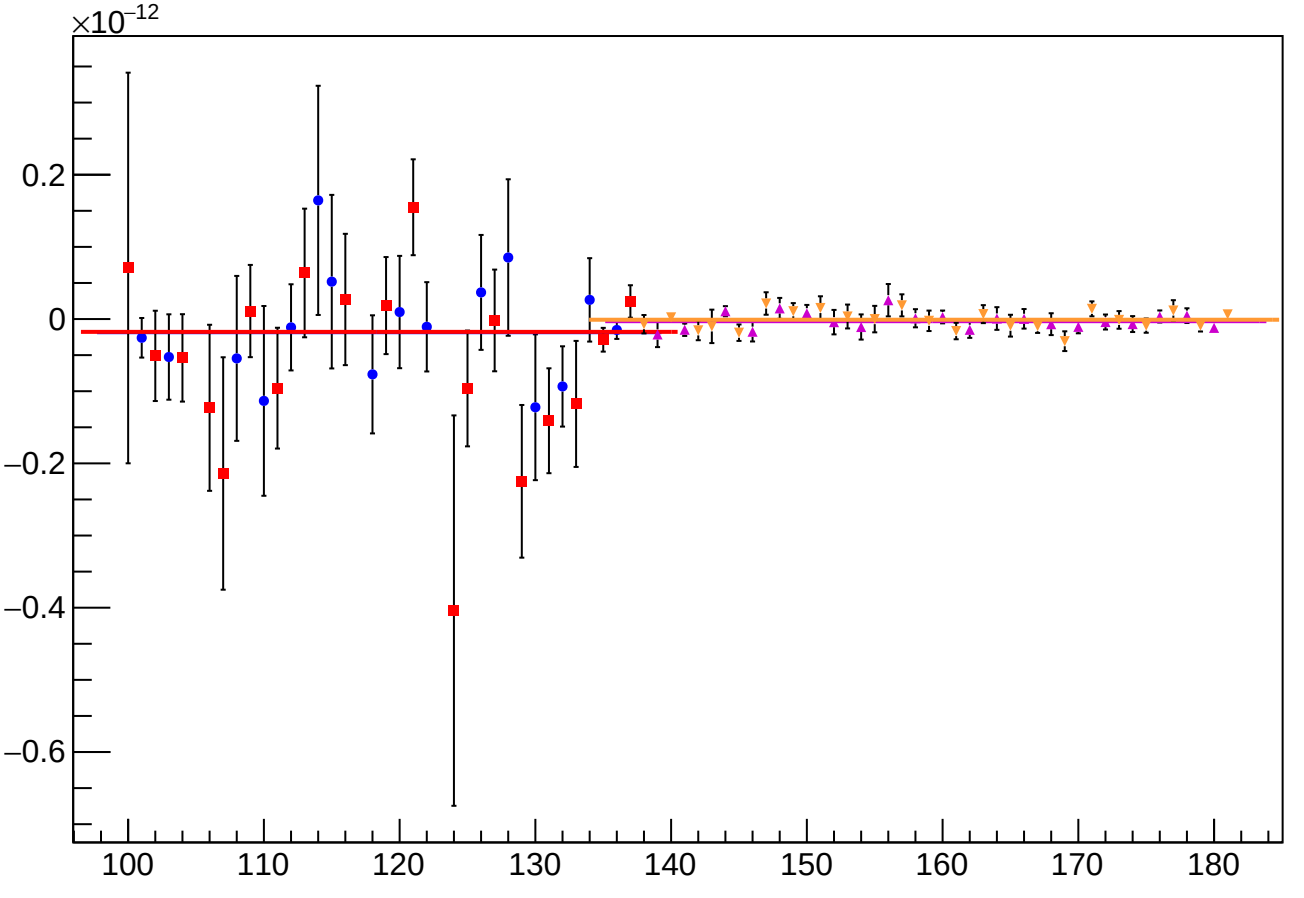
Left: 33.688+/-0.005 $\chi^2$/NDF: 18457381.8/43

Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 34.381+/-0.006 $\chi^2$/NDF:10626685.8/36

Out: 34.915+/-0.006 $\chi^2$/NDF:13131968.8/41

All: 34.641+/-0.004 $\chi^2$/NDF: 23762527.7/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:24.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.3/20

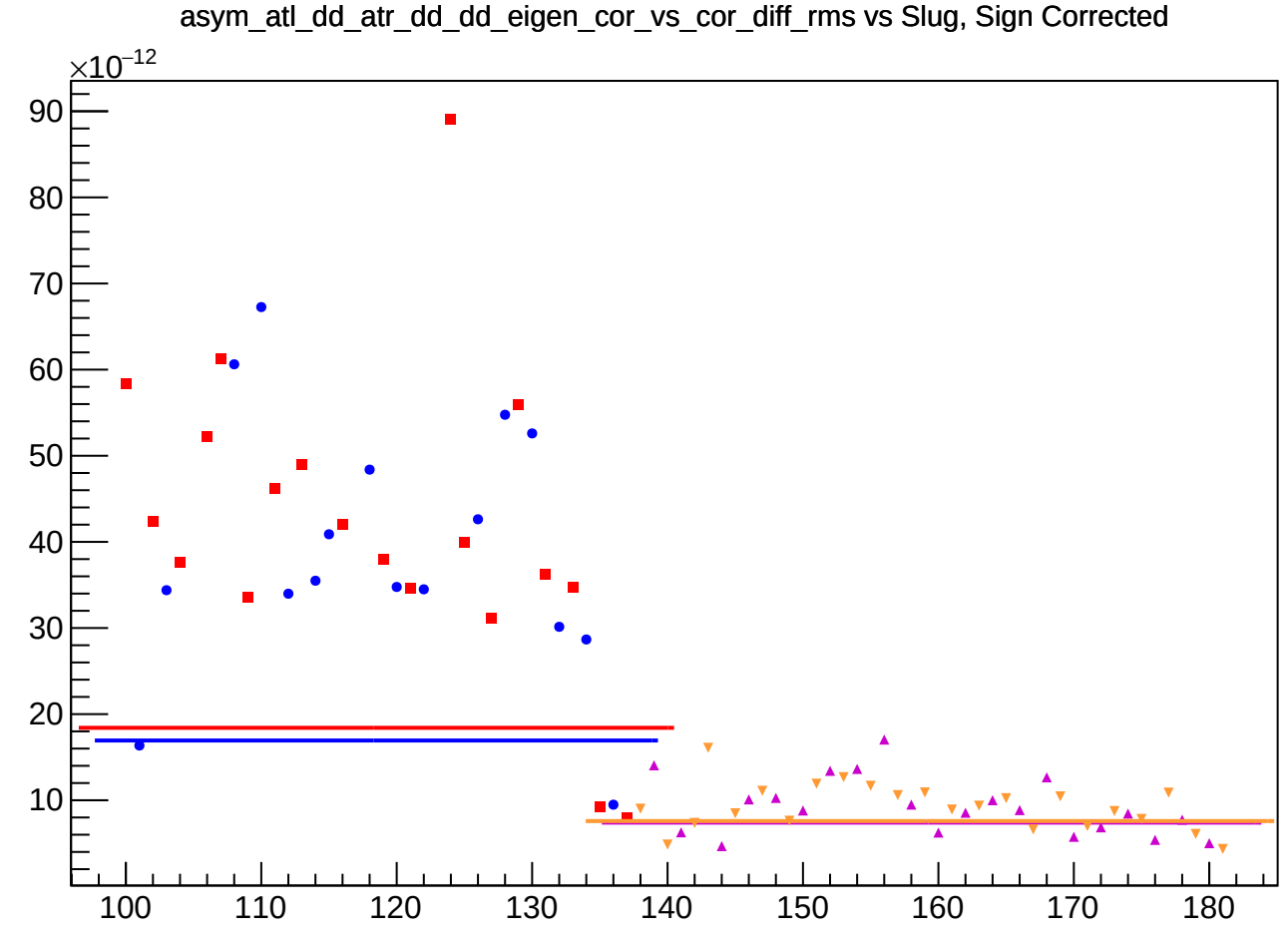
Left: -0.000+/-0.000 $\chi^2$/NDF: 43.3/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:28.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:54.2/41

All: -0.000+/-0.000 $\chi^2$/NDF: 83.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3207856.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2428877.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3674861.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2599159.5/20

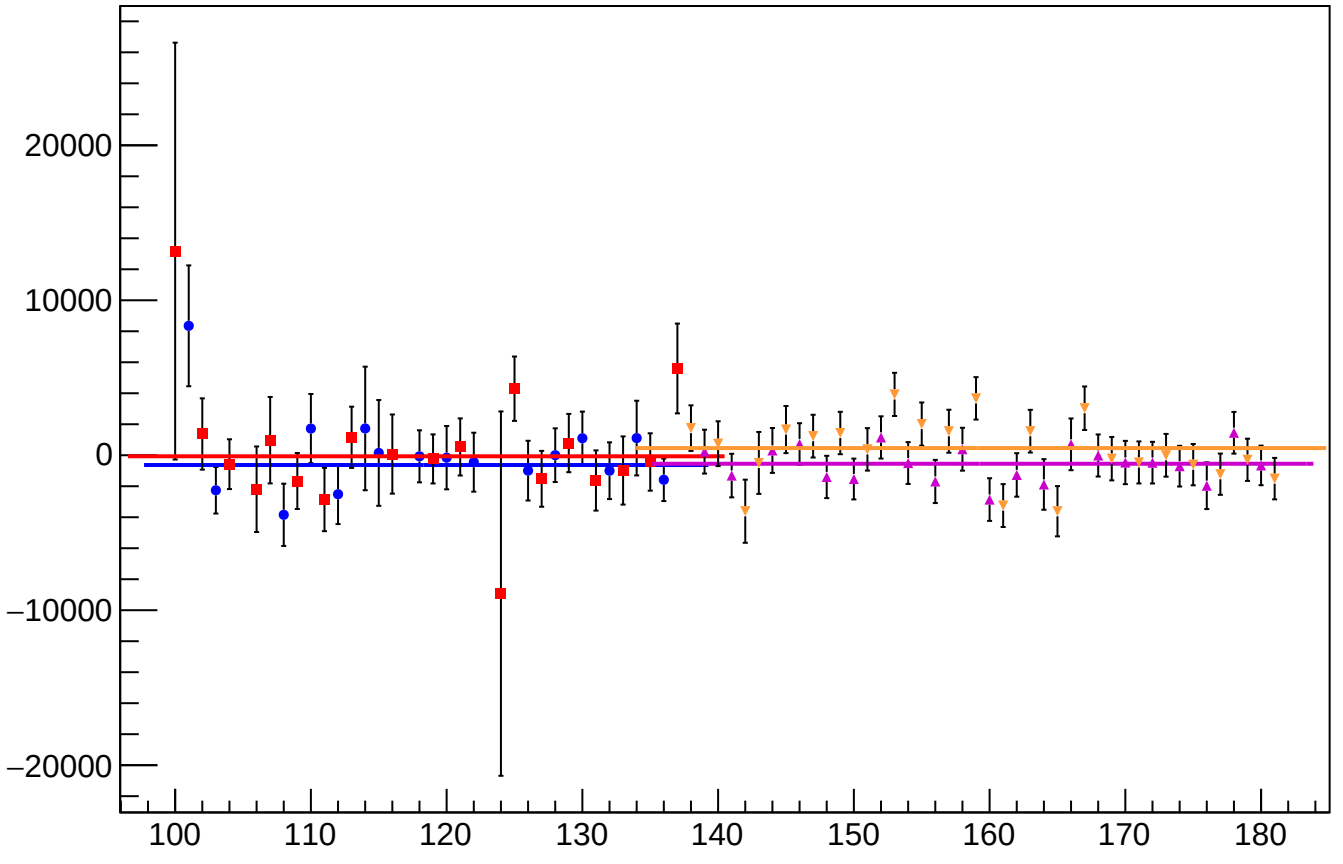
Left: 0.000+/-0.000 $\chi^2$/NDF: 5034141.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 6902390.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:7558706.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7941328.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15503479.1/78




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.177+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -549.417+/-303.758 $\chi^2$/NDF:13.1/20

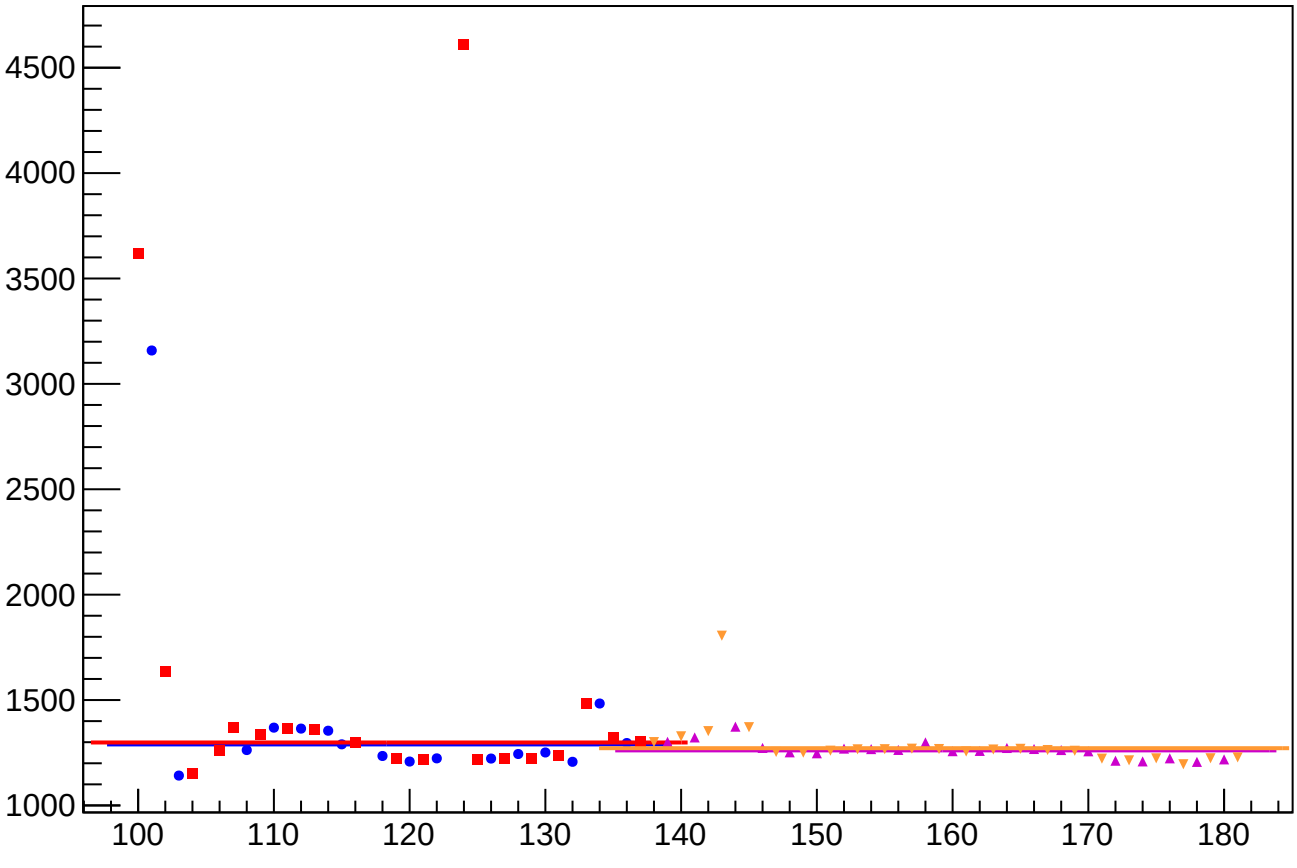
Left: -33.459+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -572.167+/-257.979 $\chi^2$/NDF:27.0/36

Out: 318.367+/-254.119 $\chi^2$/NDF:59.8/41

All: -120.189+/-181.039 $\chi^2$/NDF: 92.8/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.3/20

Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

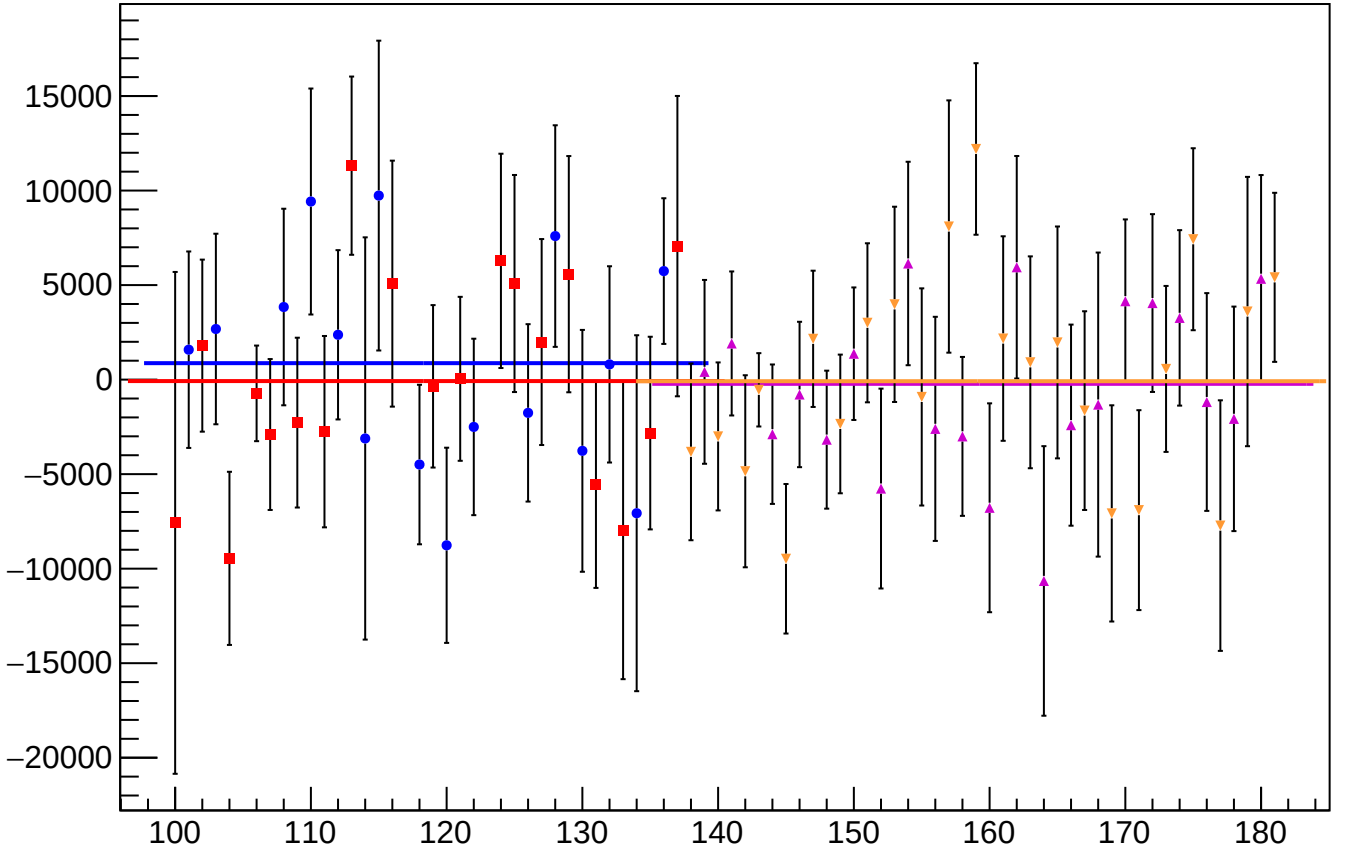
Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551922.0/36

Out: 1278.941+/-0.180 $\chi^2$/NDF:503609.3/41

All: 1274.078+/-0.128 $\chi^2$/NDF: 1057021.8/78

asym_at1_avg_at2_avg_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 870.295+/-1325.278 $\chi^2$/NDF: 14.0/15

Left Out: -84.743+/-909.482 $\chi^2$/NDF:27.7/22

Right Out: -77.323+/-1111.074 $\chi^2$/NDF: 18.4/18

Left In: -223.001+/-1035.187 $\chi^2$/NDF:13.2/20

Left: -144.972+/-683.246 $\chi^2$/NDF: 40.9/43

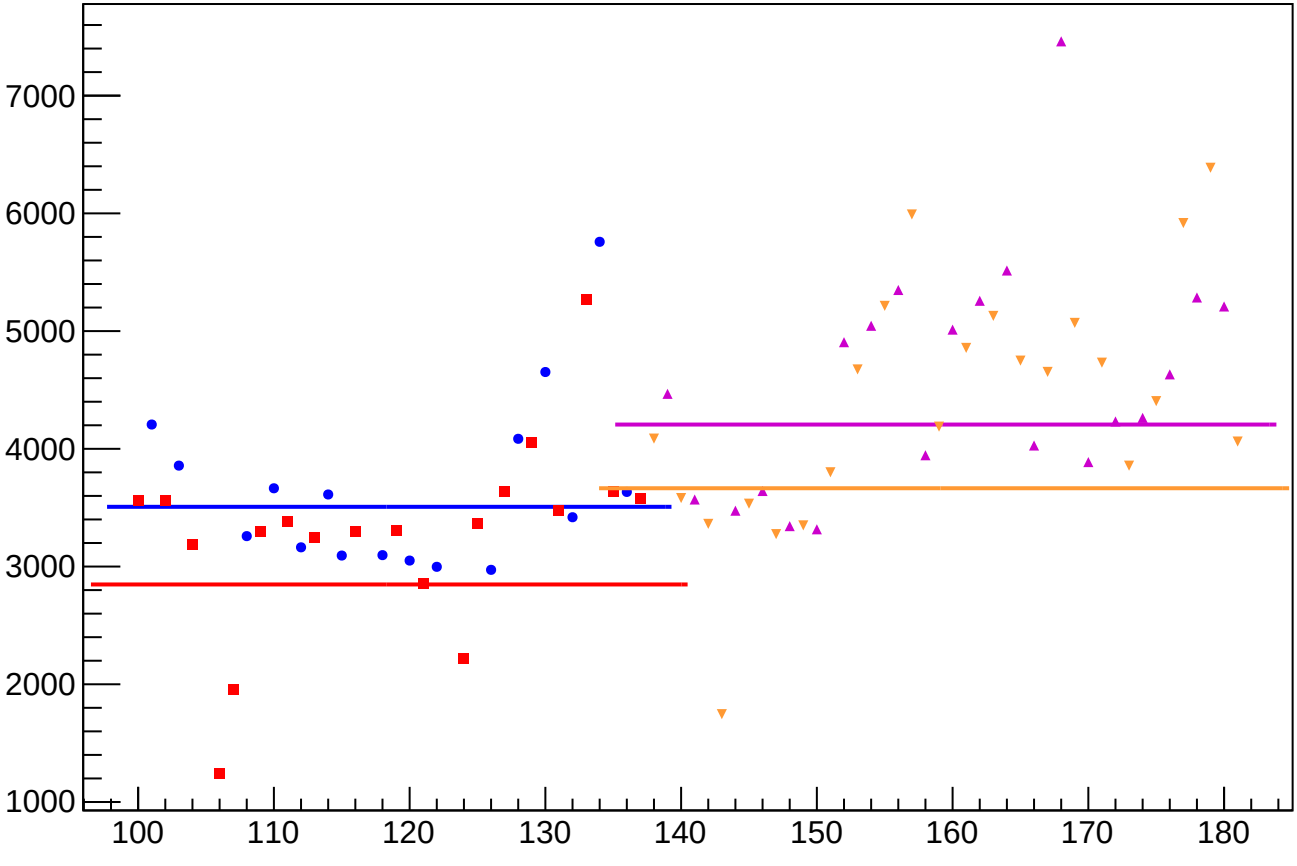
Right: 313.810+/-851.438 $\chi^2$/NDF: 32.7/34

In: 191.285+/-815.808 $\chi^2$/NDF:27.7/36

Out: -81.766+/-703.770 $\chi^2$/NDF:46.1/41

All: 34.736+/-532.885 $\chi^2$/NDF: 73.8/78

asym_at1_avg_at2_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 3665.168+/-0.643 $\chi^2$/NDF:3675034.8/22

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 4206.175+/-0.732 $\chi^2$/NDF:1248623.3/20

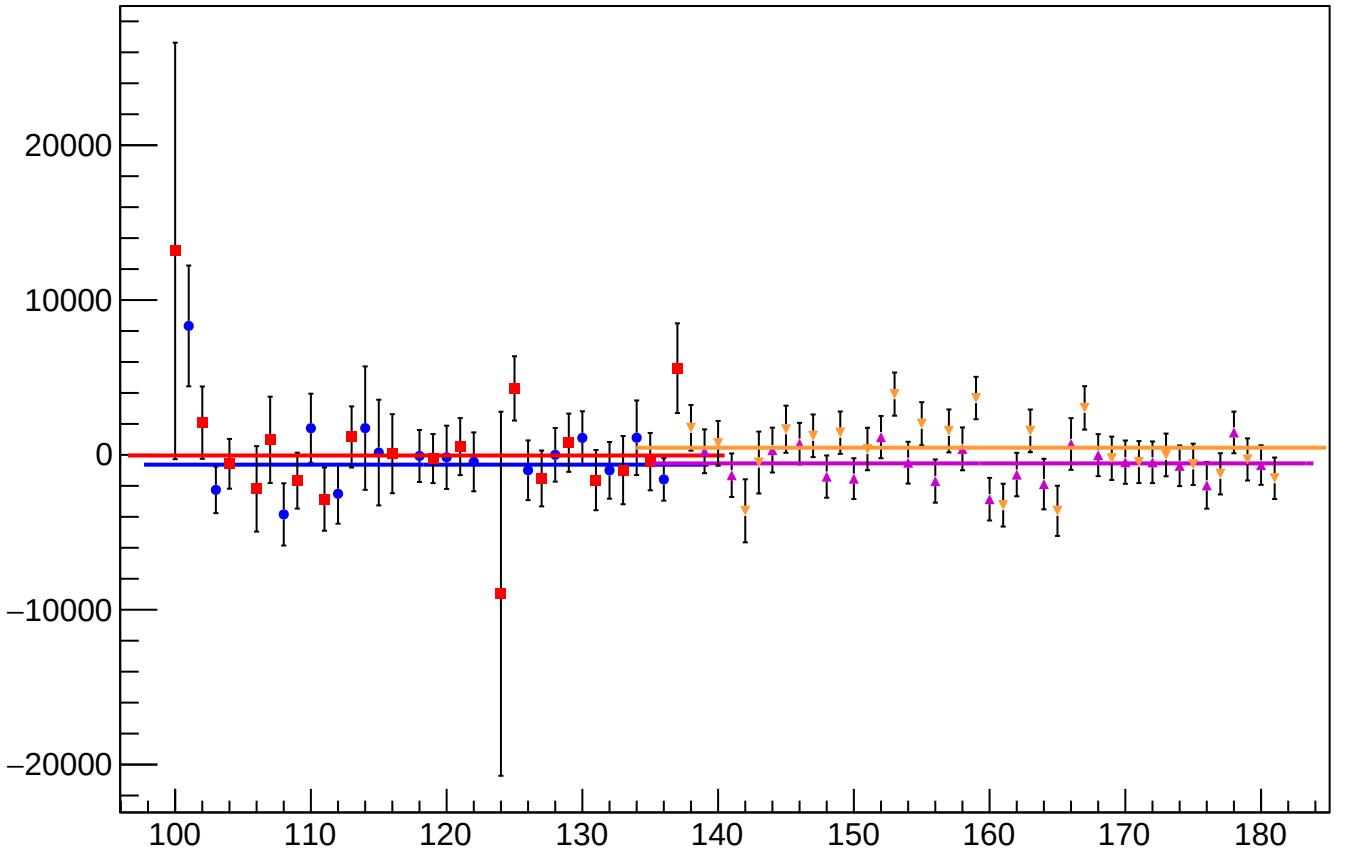
Left: 3900.846+/-0.483 $\chi^2$/NDF: 5231950.4/43

Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3941.385+/-0.577 $\chi^2$/NDF:1947931.3/36

Out: 3337.243+/-0.498 $\chi^2$/NDF:5822471.1/41

All: 3595.011+/-0.377 $\chi^2$/NDF: 8399239.7/78




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.210+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -549.318+/-303.758 $\chi^2$/NDF:13.1/20

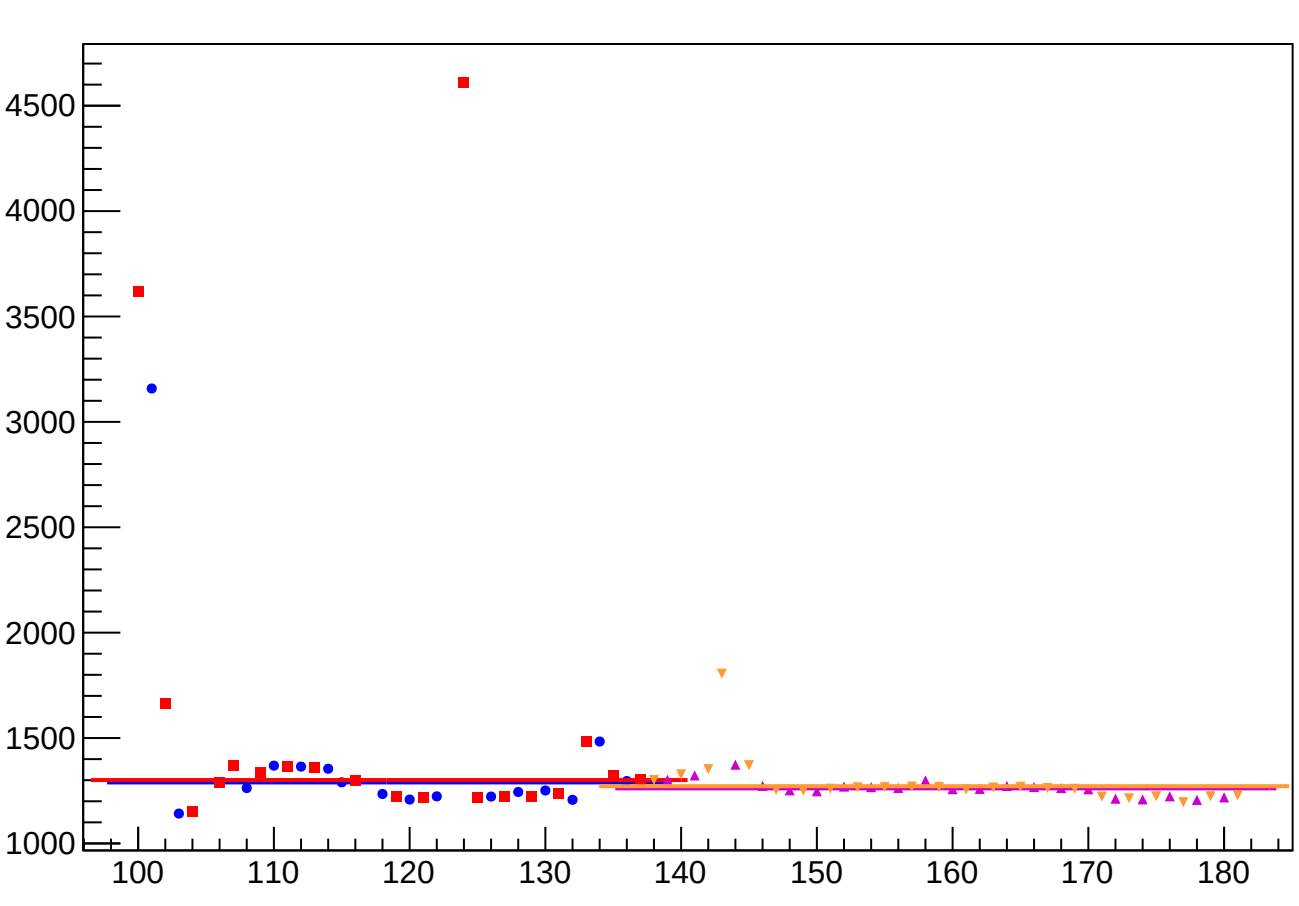
Left: -33.394+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -572.202+/-257.979 $\chi^2$/NDF:27.0/36

Out: 326.399+/-254.165 $\chi^2$/NDF:60.1/41

All: -116.211+/-181.055 $\chi^2$/NDF: 93.3/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.2/20

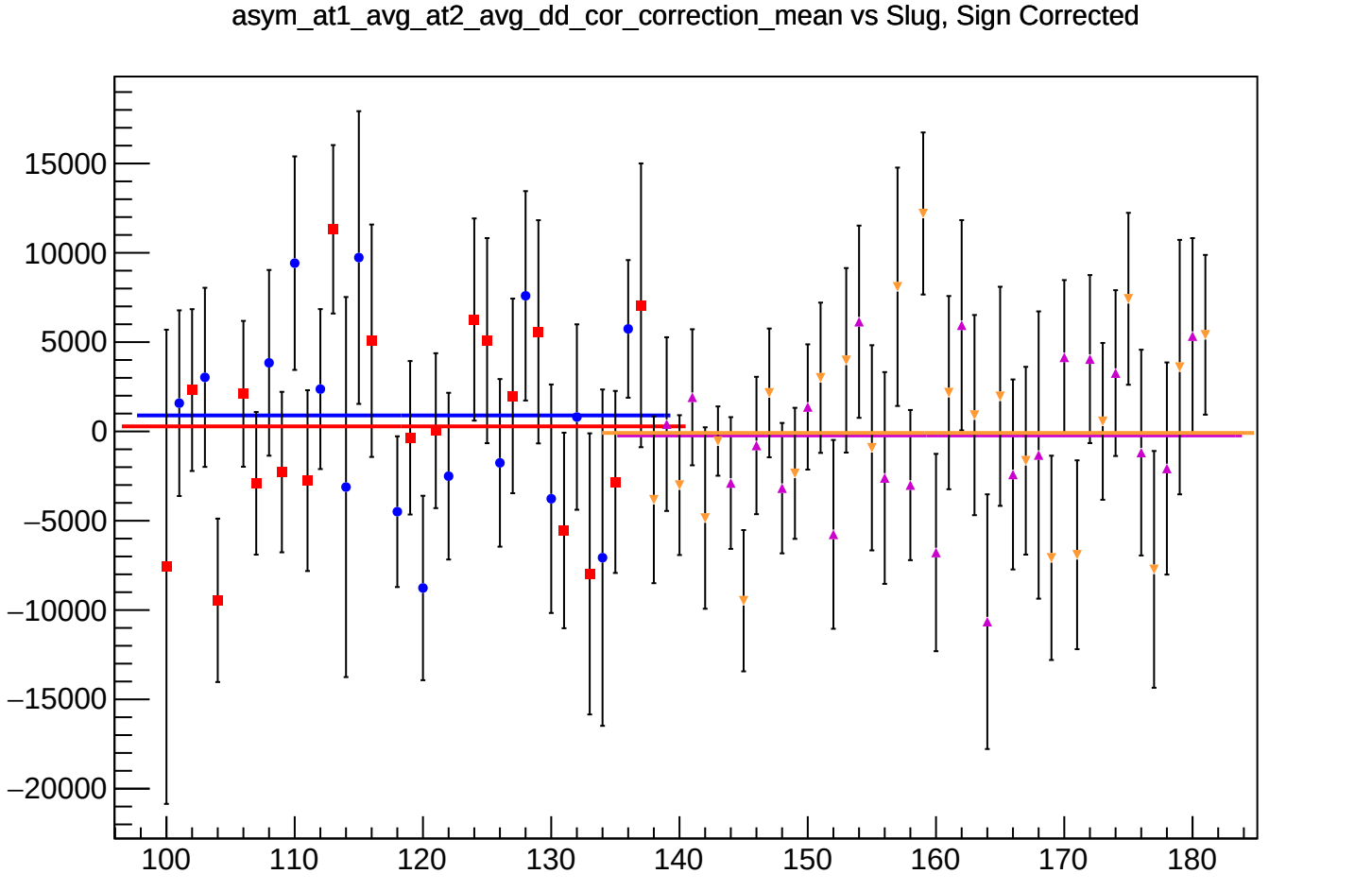
Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551923.4/36

Out: 1279.478+/-0.180 $\chi^2$/NDF:510832.3/41

All: 1274.349+/-0.128 $\chi^2$/NDF: 1064411.8/78




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -84.671+/-909.481 $\chi^2$/NDF:27.7/22

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -222.990+/-1035.185 $\chi^2$/NDF:13.2/20

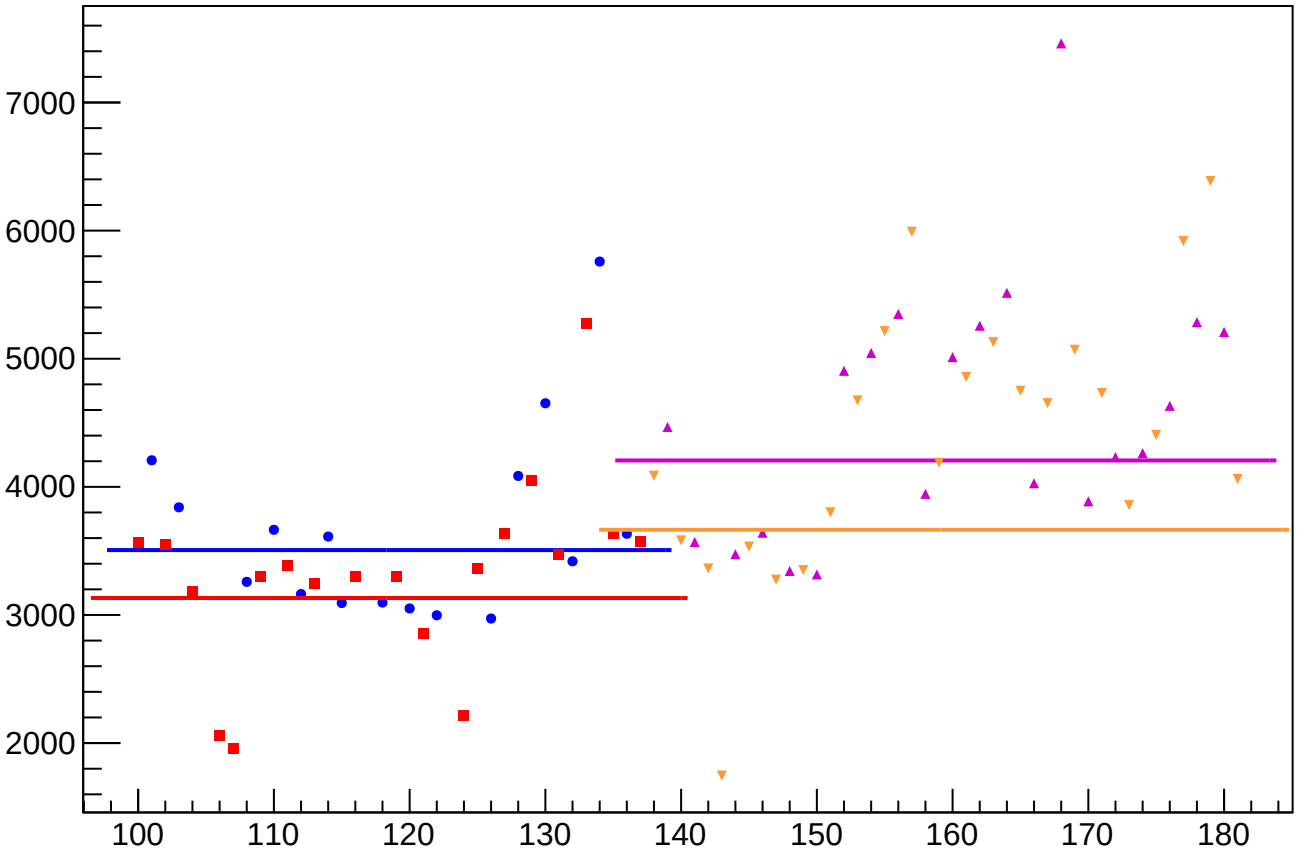
Left: -144.927+/-683.245 $\chi^2$/NDF: 40.9/43

Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 201.218+/-815.701 $\chi^2$/NDF:27.8/36

Out: 52.244+/-721.068 $\chi^2$/NDF:46.4/41

All: 117.592+/-540.246 $\chi^2$/NDF: 74.1/78




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 3665.160+/-0.643 $\chi^2$/NDF:3675073.2/22

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 4206.169+/-0.732 $\chi^2$/NDF:1248621.9/20

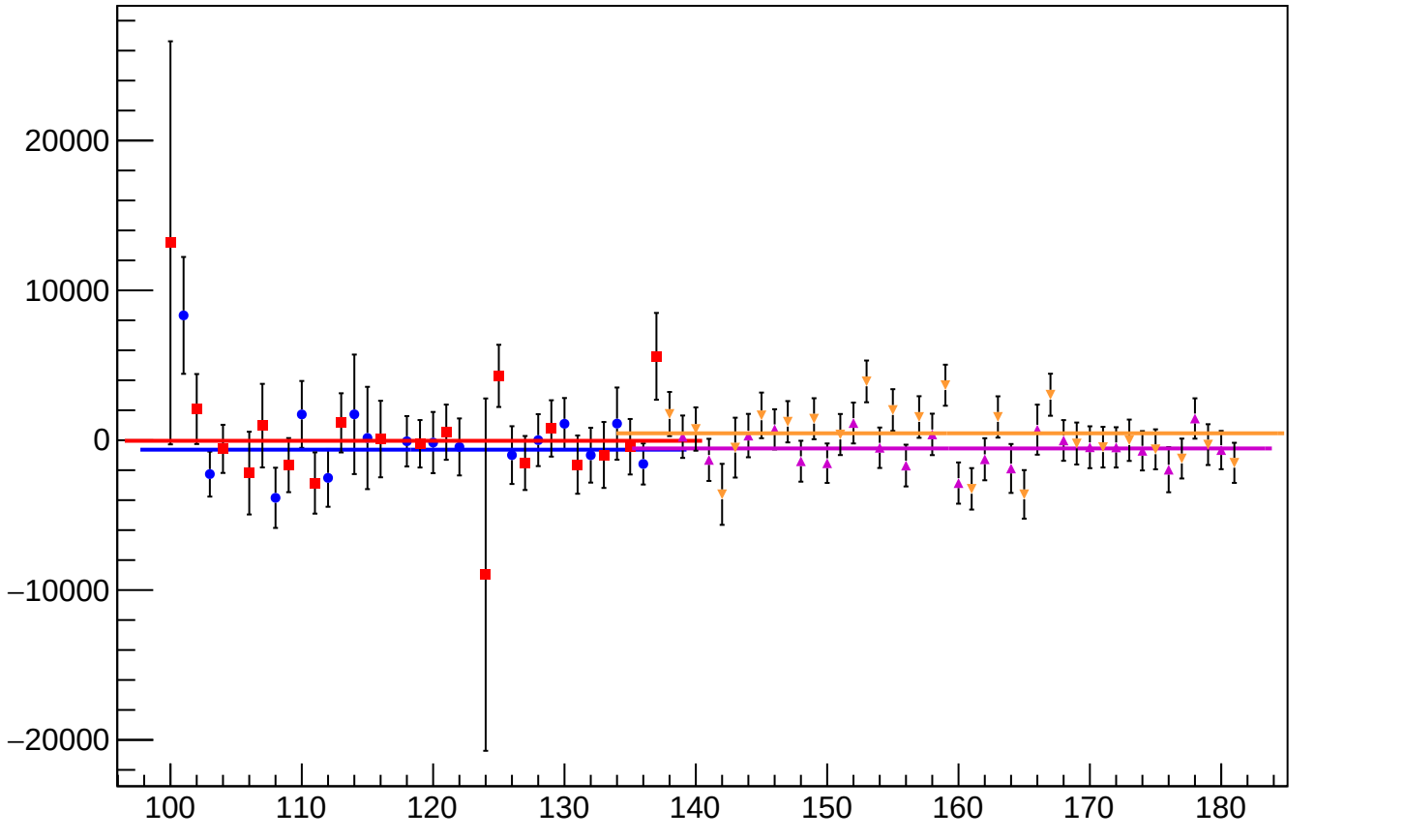
Left: 3900.839+/-0.483 $\chi^2$/NDF: 5231990.5/43

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3940.923+/-0.577 $\chi^2$/NDF:1948233.7/36

Out: 3467.355+/-0.510 $\chi^2$/NDF:4579402.4/41

All: 3675.087+/-0.382 $\chi^2$/NDF: 6906046.0/78




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.210+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -549.318+/-303.758 $\chi^2$/NDF:13.1/20

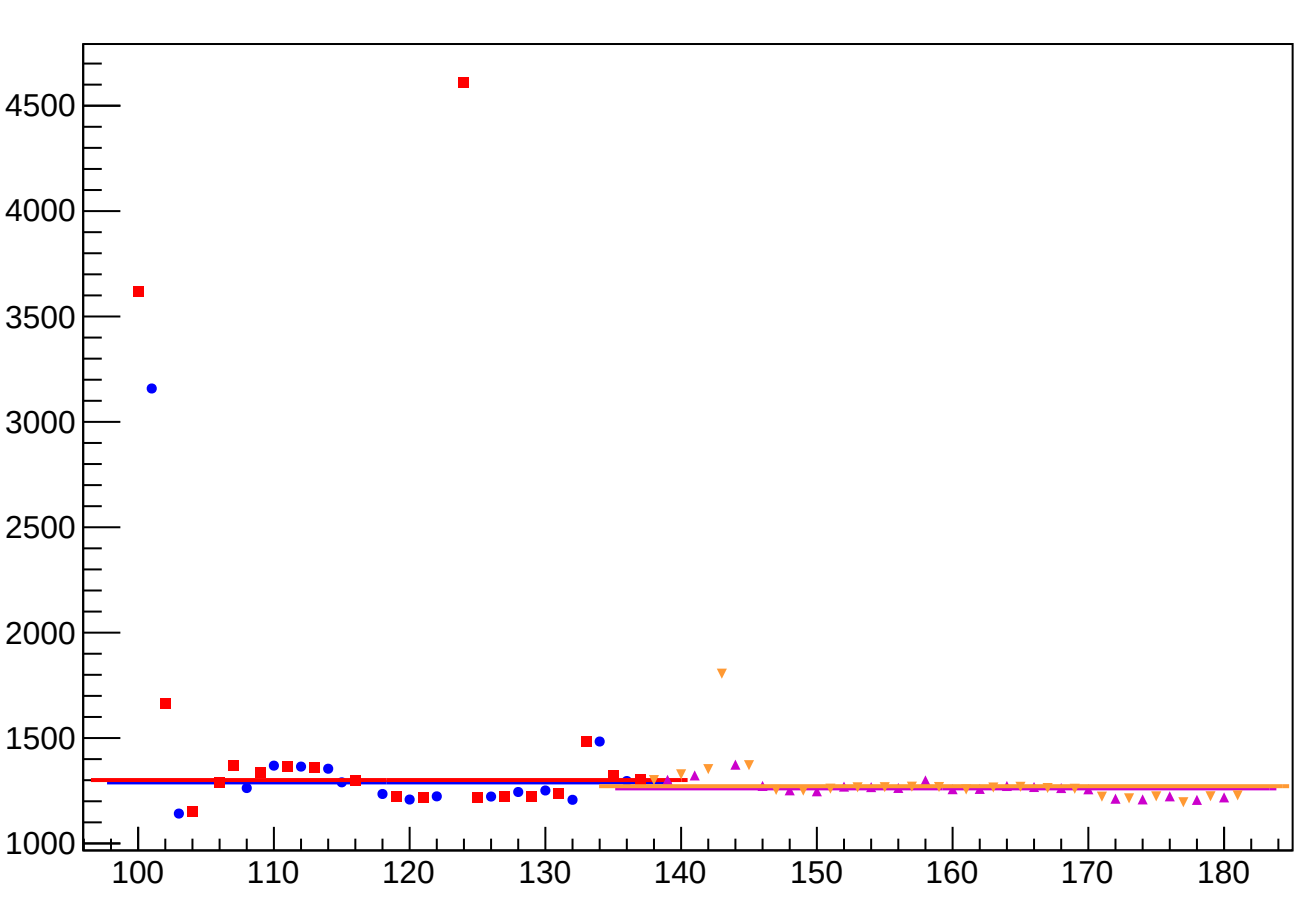
Left: -33.394+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -572.202+/-257.979 $\chi^2$/NDF:27.0/36

Out: 326.399+/-254.165 $\chi^2$/NDF:60.1/41

All: -116.211+/-181.055 $\chi^2$/NDF: 93.3/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.2/20

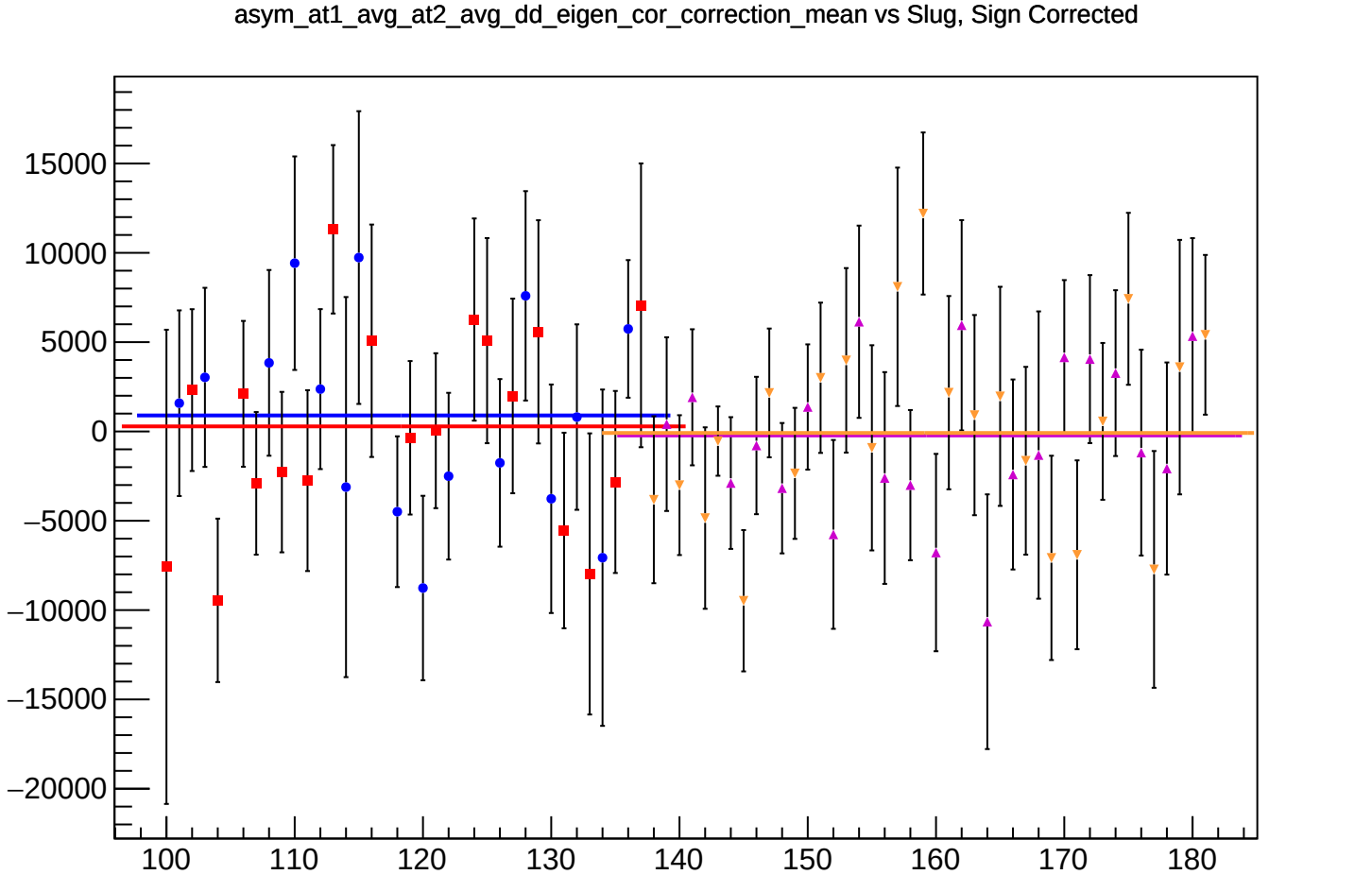
Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551923.4/36

Out: 1279.478+/-0.180 $\chi^2$/NDF:510832.3/41

All: 1274.349+/-0.128 $\chi^2$/NDF: 1064411.8/78




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -84.671+/-909.481 $\chi^2$/NDF:27.7/22

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -222.990+/-1035.185 $\chi^2$/NDF:13.2/20

Left: -144.927+/-683.245 $\chi^2$/NDF: 40.9/43

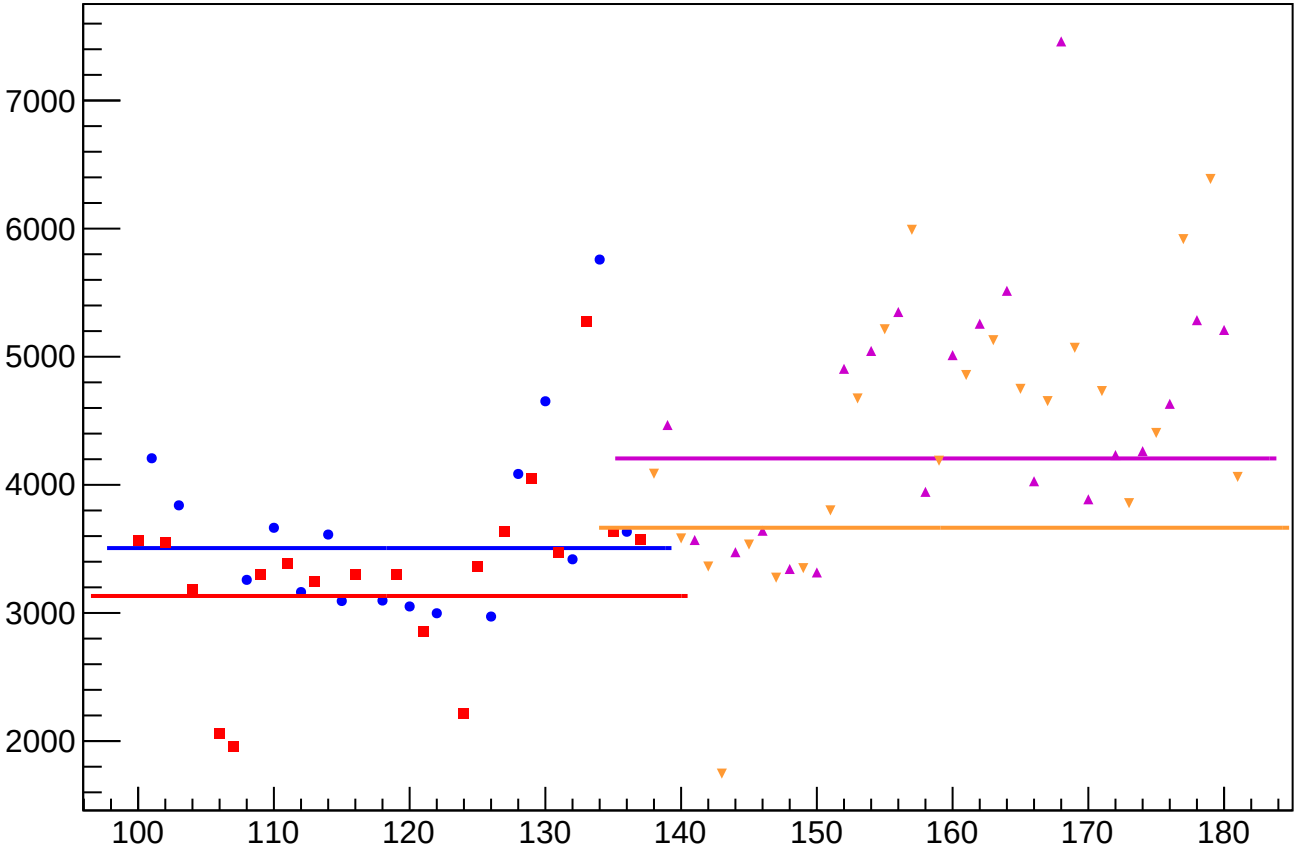
Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 201.218+/-815.701 $\chi^2$/NDF:27.8/36

Out: 52.244+/-721.068 $\chi^2$/NDF:46.4/41

All: 117.592+/-540.246 $\chi^2$/NDF: 74.1/78

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 3665.160+/-0.643 $\chi^2$/NDF:3675073.2/22

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 4206.169+/-0.732 $\chi^2$/NDF:1248621.9/20

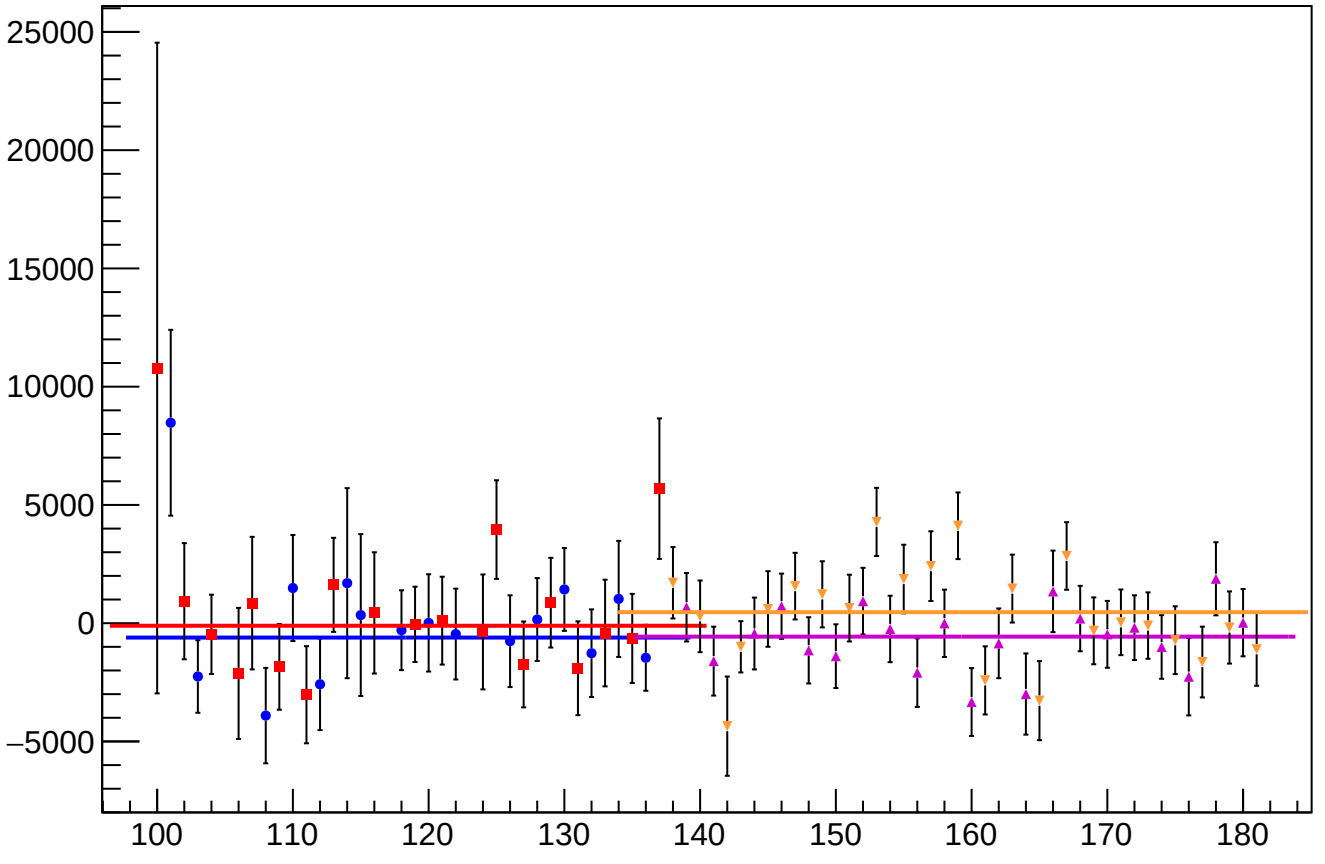
Left: 3900.839+/-0.483 $\chi^2$/NDF: 5231990.5/43

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3940.923+/-0.577 $\chi^2$/NDF:1948233.7/36

Out: 3467.355+/-0.510 $\chi^2$/NDF:4579402.4/41

All: 3675.087+/-0.382 $\chi^2$/NDF: 6906046.0/78




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 465.770+/-302.813 $\chi^2$/NDF:41.8/22

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -568.638+/-316.767 $\chi^2$/NDF:16.3/20

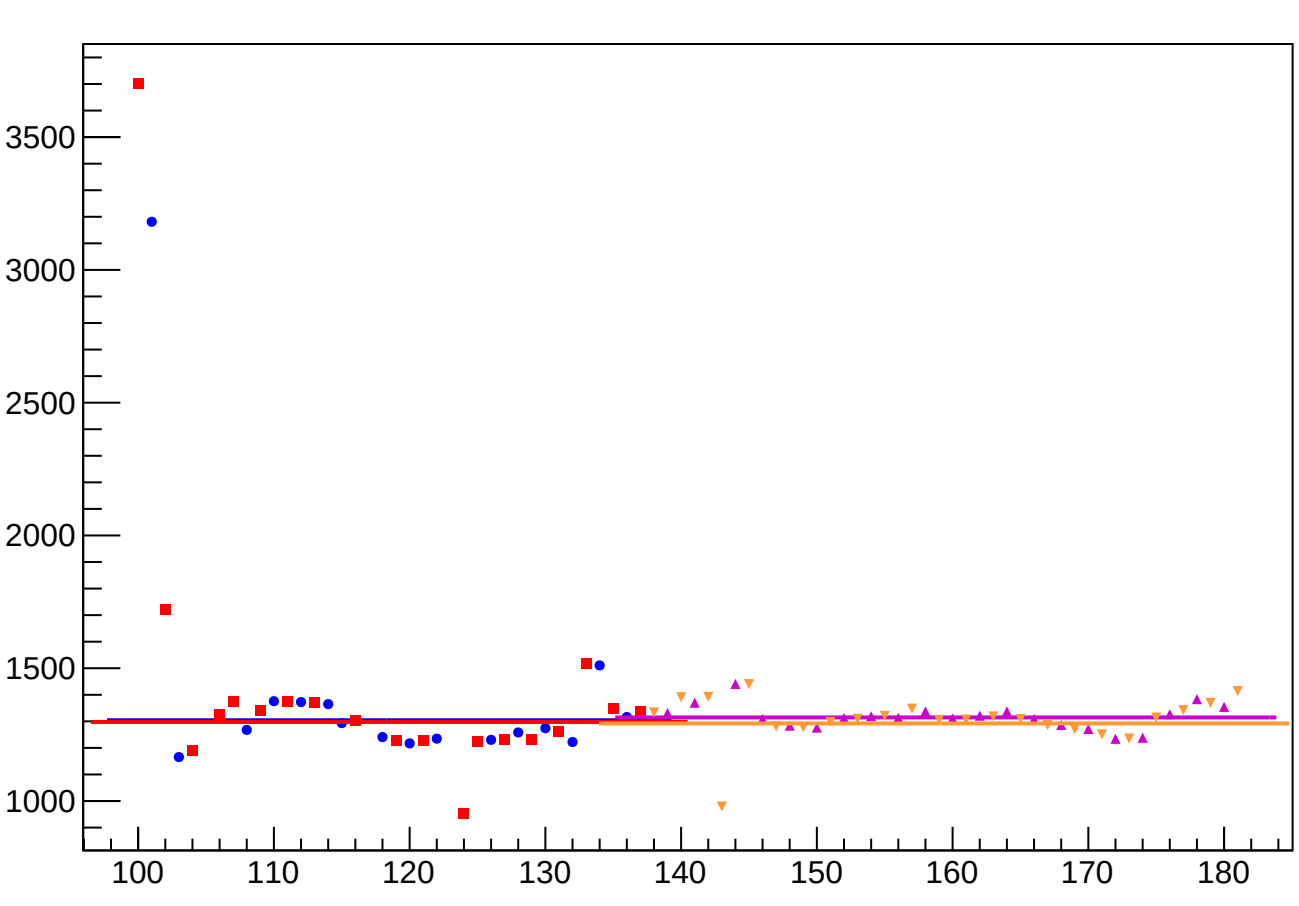
Left: -28.149+/-218.888 $\chi^2$/NDF: 63.7/43

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -580.052+/-266.684 $\chi^2$/NDF:30.4/36

Out: 304.929+/-256.941 $\chi^2$/NDF:57.7/41

All: -121.101+/-185.033 $\chi^2$/NDF: 93.9/78




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1292.099+/-0.214 $\chi^2$/NDF:229751.7/22

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1314.719+/-0.224 $\chi^2$/NDF:42300.5/20

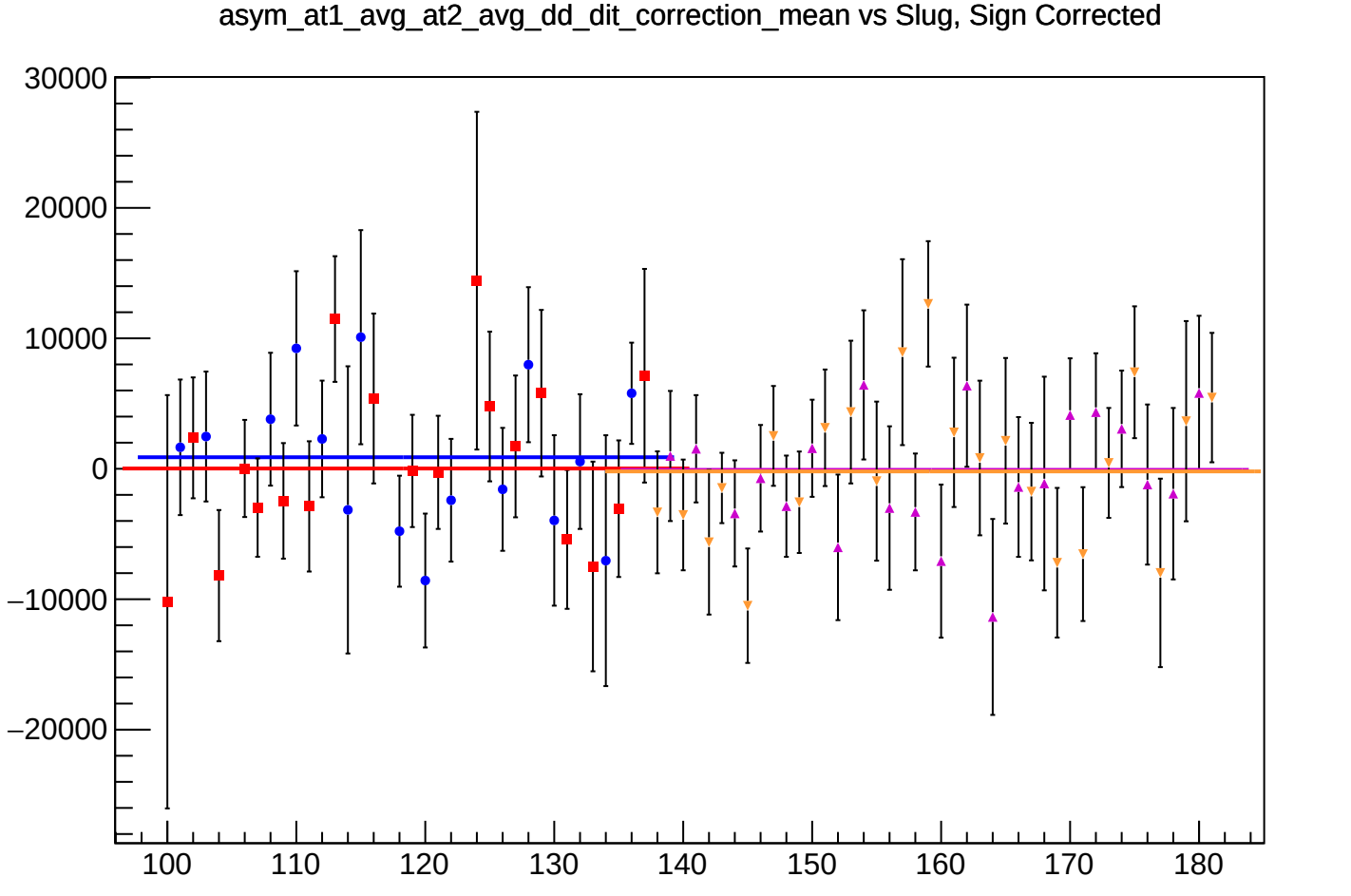
Left: 1302.900+/-0.155 $\chi^2$/NDF: 277380.8/43

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1311.627+/-0.189 $\chi^2$/NDF:553544.1/36

Out: 1293.696+/-0.182 $\chi^2$/NDF:443047.0/41

All: 1302.326+/-0.131 $\chi^2$/NDF: 1001281.0/78




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -201.438+/-1004.291 $\chi^2$/NDF:27.2/22

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -82.228+/-1085.423 $\chi^2$/NDF:13.1/20

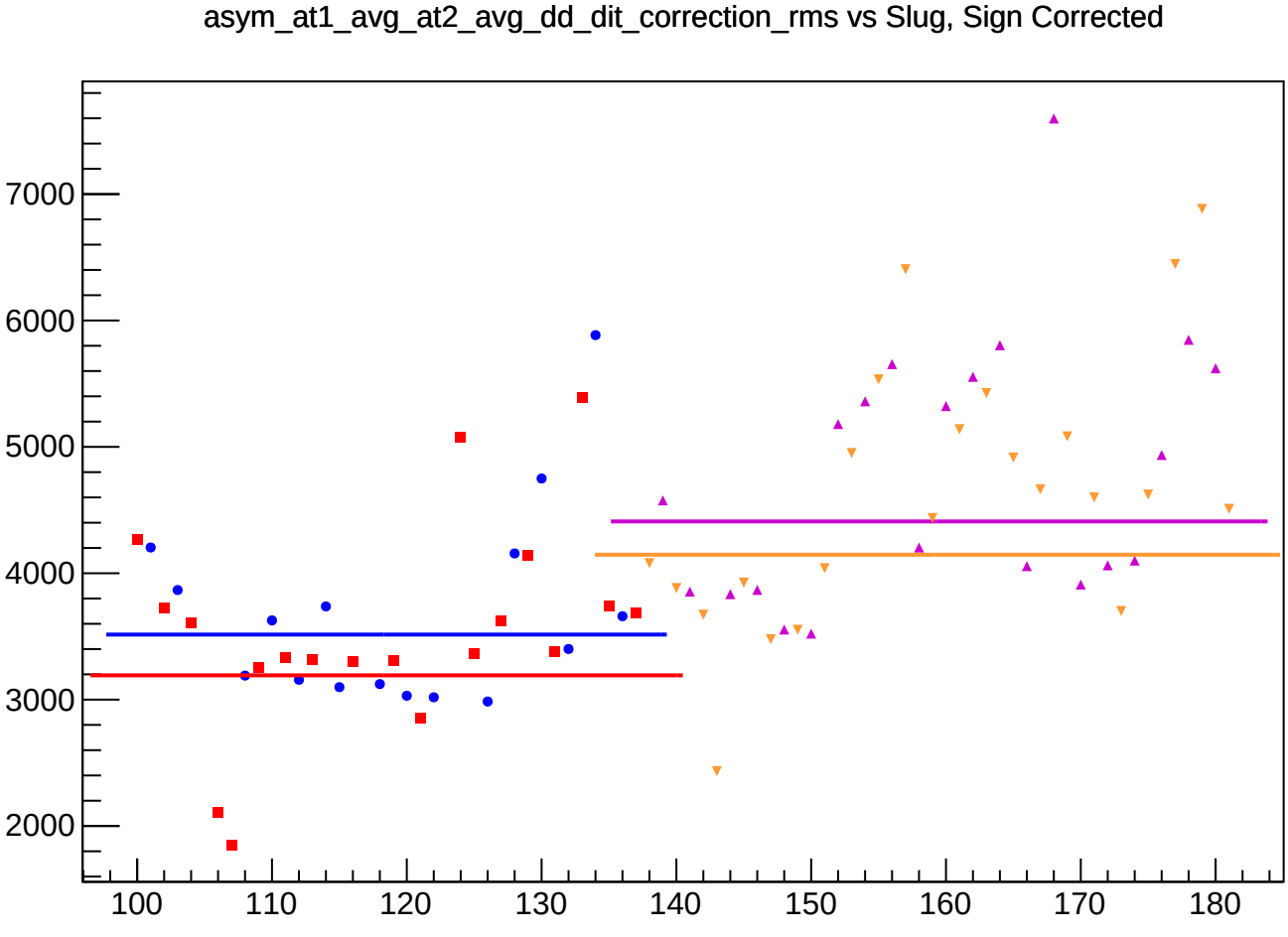
Left: -146.454+/-737.156 $\chi^2$/NDF: 40.3/43

Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 304.973+/-840.267 $\chi^2$/NDF:27.5/36

Out: -109.946+/-770.166 $\chi^2$/NDF:44.1/41

All: 79.486+/-567.757 $\chi^2$/NDF: 71.7/78




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 4146.558+/-0.710 $\chi^2$/NDF:2077011.7/22

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 4410.019+/-0.768 $\chi^2$/NDF:1239942.6/20

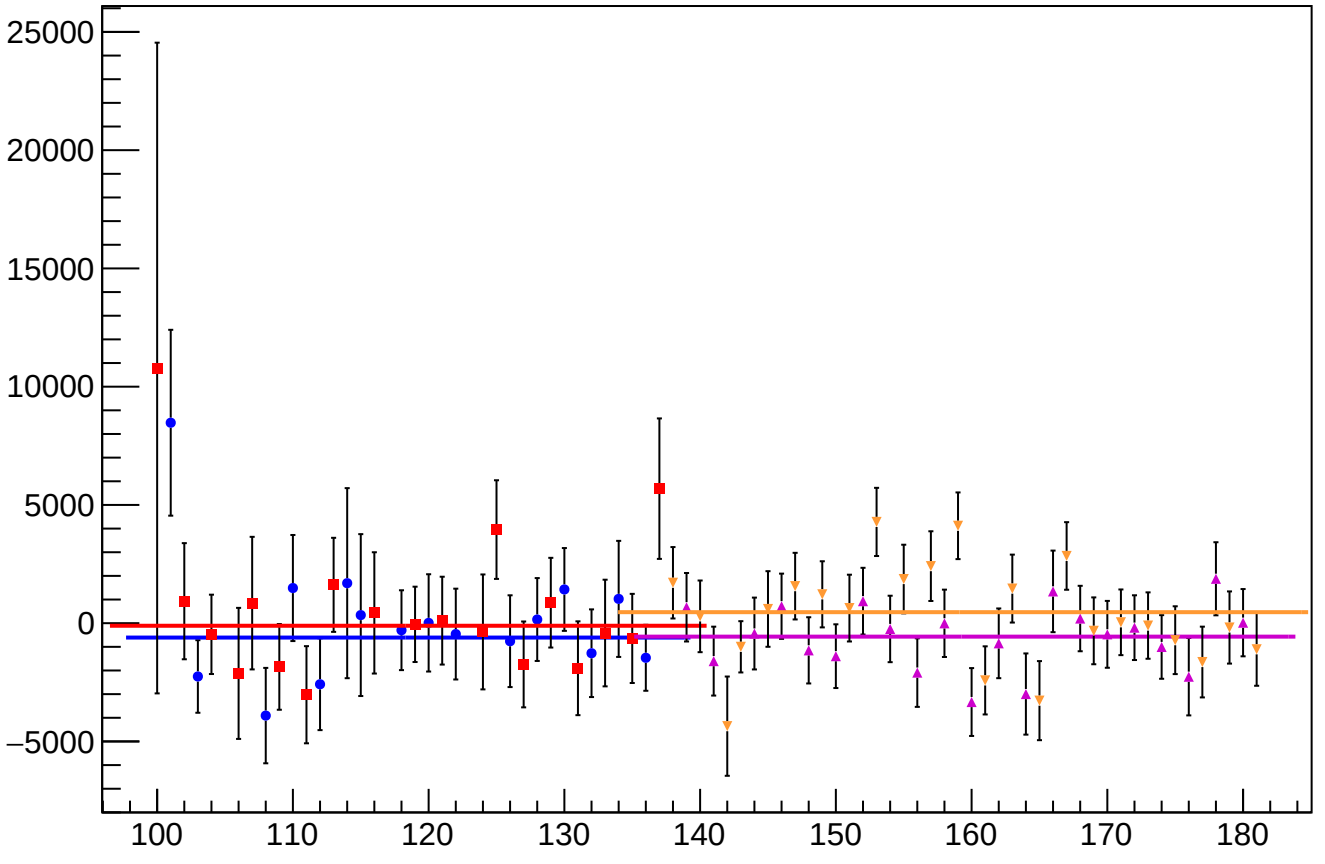
Left: 4268.075+/-0.521 $\chi^2$/NDF: 3380438.5/43

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 4051.273+/-0.594 $\chi^2$/NDF:2160245.0/36

Out: 3753.456+/-0.545 $\chi^2$/NDF:3593425.4/41

All: 3889.426+/-0.401 $\chi^2$/NDF: 5890207.7/78




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 465.773+/-302.814 $\chi^2$/NDF:41.8/22

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -568.639+/-316.768 $\chi^2$/NDF:16.3/20

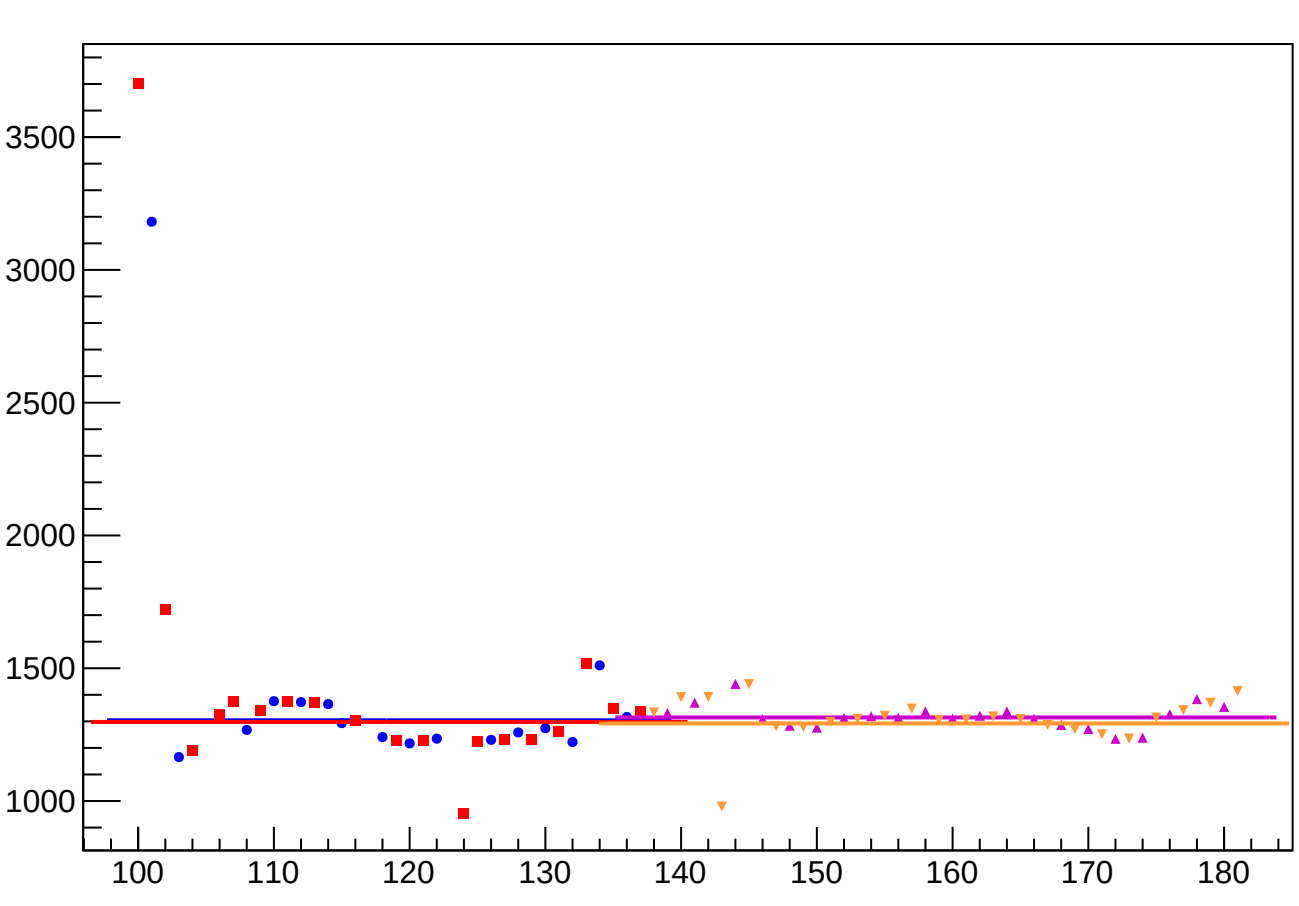
Left: -28.148+/-218.889 $\chi^2$/NDF: 63.7/43

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -580.053+/-266.684 $\chi^2$/NDF:30.4/36

Out: 304.929+/-256.942 $\chi^2$/NDF:57.7/41

All: -121.102+/-185.033 $\chi^2$/NDF: 93.9/78




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1292.100+/-0.214 $\chi^2$/NDF:229754.2/22

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1314.720+/-0.224 $\chi^2$/NDF:42302.6/20

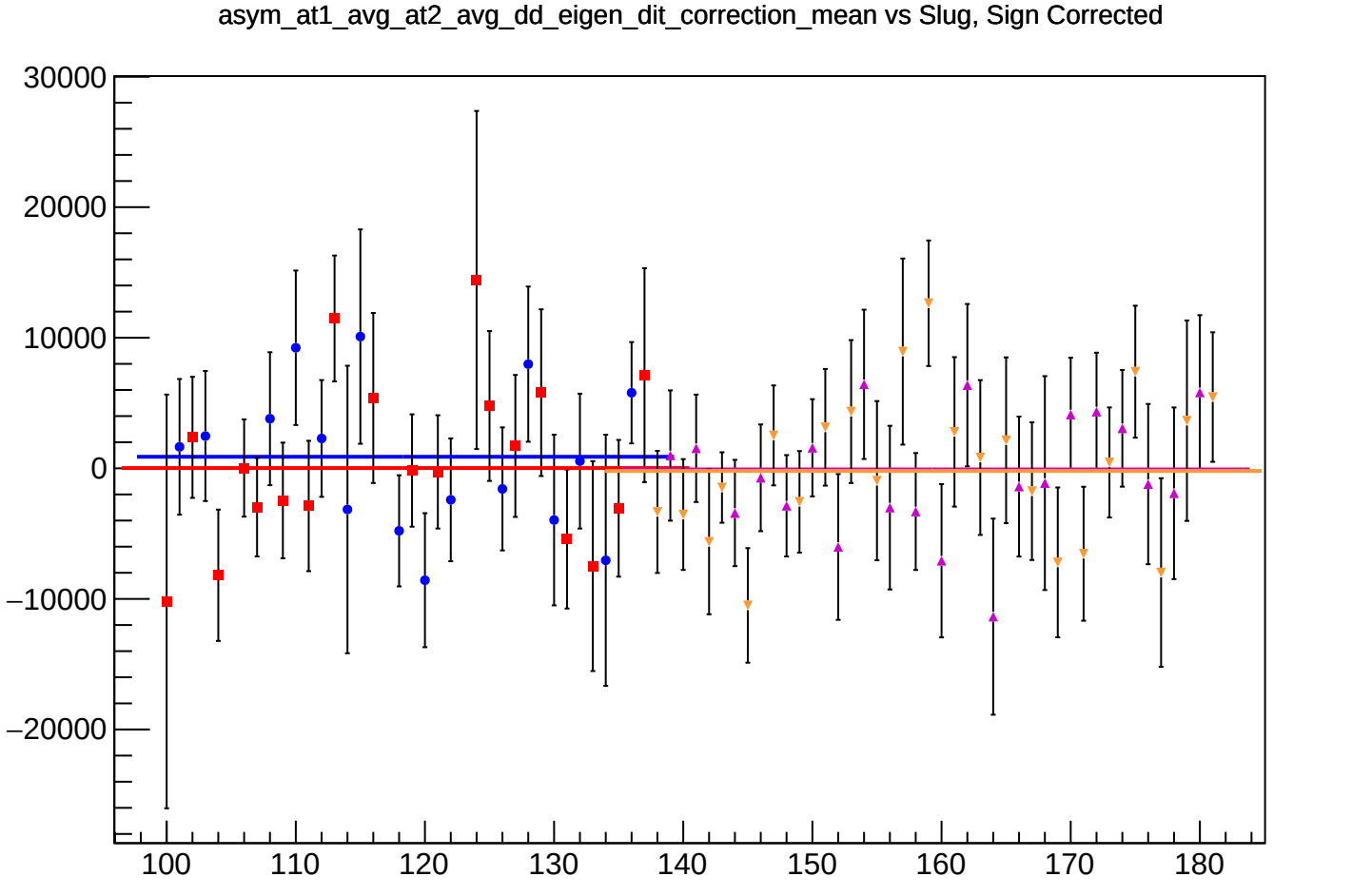
Left: 1302.901+/-0.155 $\chi^2$/NDF: 277385.5/43

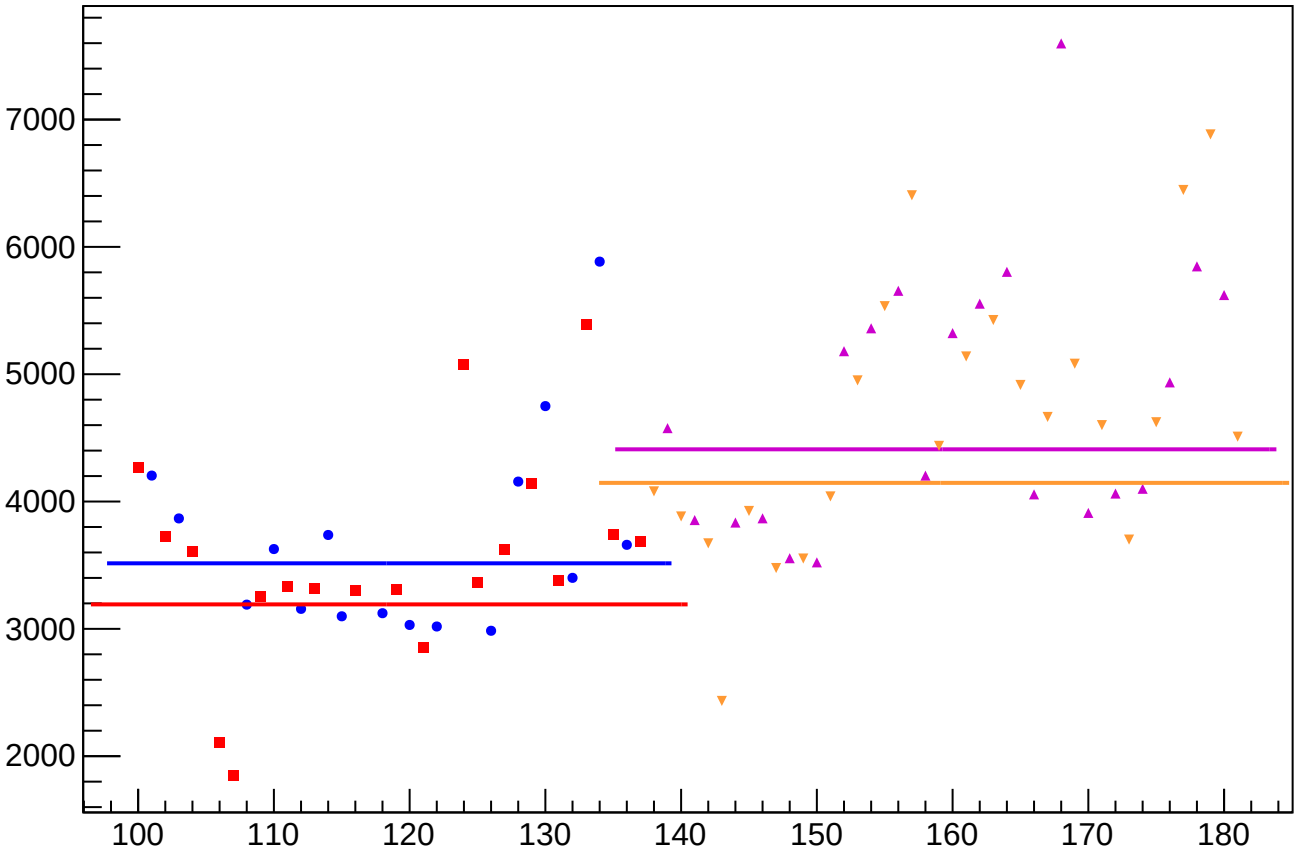
Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

In: 1311.628+/-0.189 $\chi^2$/NDF:553546.6/36

Out: 1293.697+/-0.182 $\chi^2$/NDF:443049.5/41

All: 1302.327+/-0.131 $\chi^2$/NDF: 1001286.0/78


asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: 884.047+/-1327.396 χ²/NDF: 14.1/15
Left Out: -201.435+/-1004.293 χ²/NDF:27.2/22
Right Out: 20.677+/-1200.012 χ²/NDF: 16.8/18
Left In: -82.228+/-1085.424 χ²/NDF:13.1/20
Left: -146.453+/-737.158 χ²/NDF: 40.3/43
Right: 408.958+/-890.174 χ²/NDF: 31.2/34
In: 304.971+/-840.267 χ²/NDF:27.5/36
Out: -109.946+/-770.166 χ²/NDF:44.1/41
All: 79.486+/-567.757 χ²/NDF: 71.7/78




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 4146.564+/-0.710 $\chi^2$/NDF:2077014.6/22

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 4410.026+/-0.768 $\chi^2$/NDF:1239946.7/20

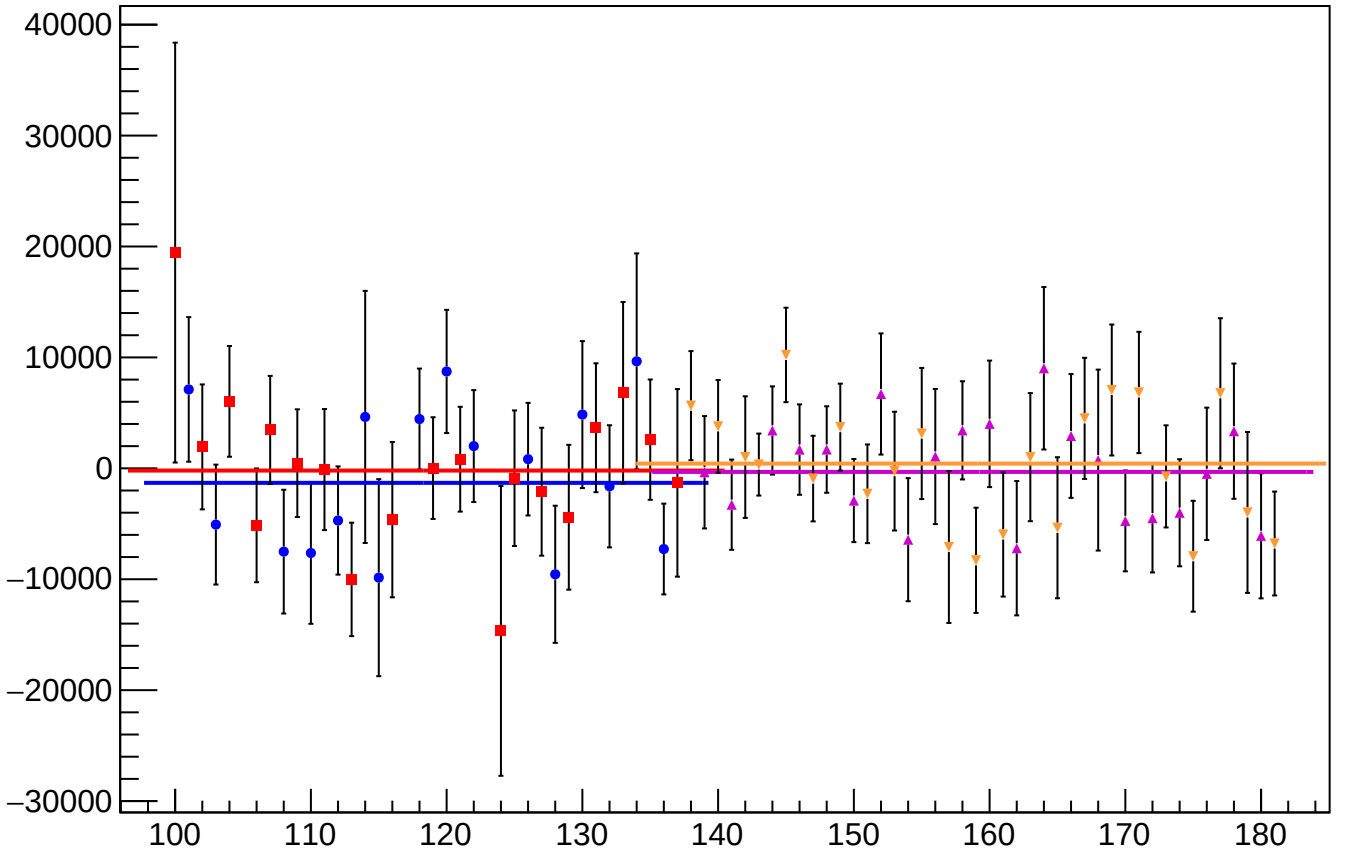
Left: 4268.082+/-0.521 $\chi^2$/NDF: 3380445.4/43

Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 4051.272+/-0.594 $\chi^2$/NDF:2160273.6/36

Out: 3753.455+/-0.545 $\chi^2$/NDF:3593453.8/41

All: 3889.424+/-0.401 $\chi^2$/NDF: 5890264.7/78




Right In: -1309.349+/-1431.624 $\chi^2$/NDF: 17.6/15

Left Out: 425.460+/-1008.552 $\chi^2$/NDF:24.9/22

Right Out: -201.593+/-1336.062 $\chi^2$/NDF: 11.6/18

Left In: -324.975+/-1086.468 $\chi^2$/NDF:13.5/20

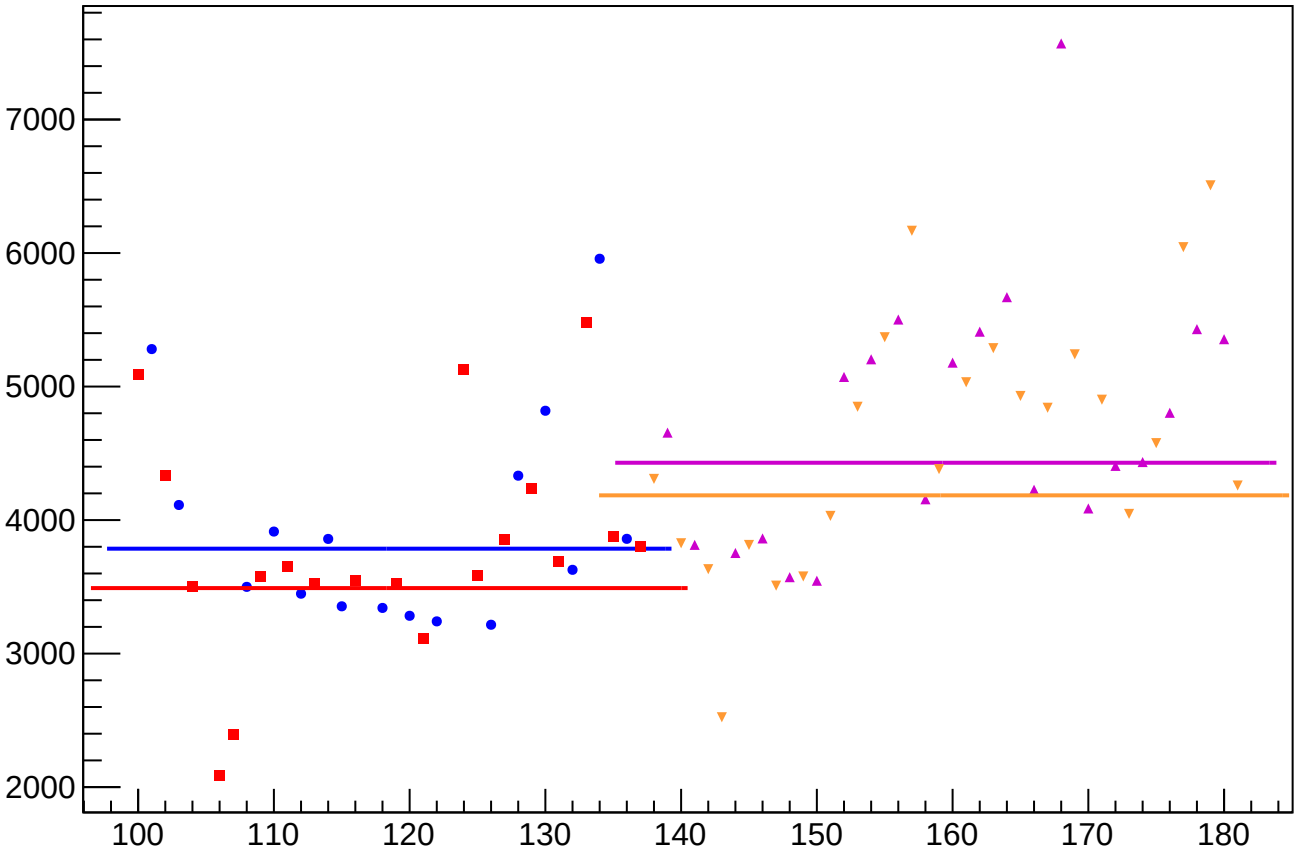
Left: 78.114+/-739.166 $\chi^2$/NDF: 38.7/43

Right: -717.269+/-976.776 $\chi^2$/NDF: 29.5/34

In: -684.722+/-865.461 $\chi^2$/NDF:31.4/36

Out: 197.848+/-804.957 $\chi^2$/NDF:36.7/41

All: -211.511+/-589.420 $\chi^2$/NDF: 68.7/78




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 4185.197+/-0.713 $\chi^2$/NDF:1796091.9/22

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 4429.354+/-0.768 $\chi^2$/NDF:1060790.8/20

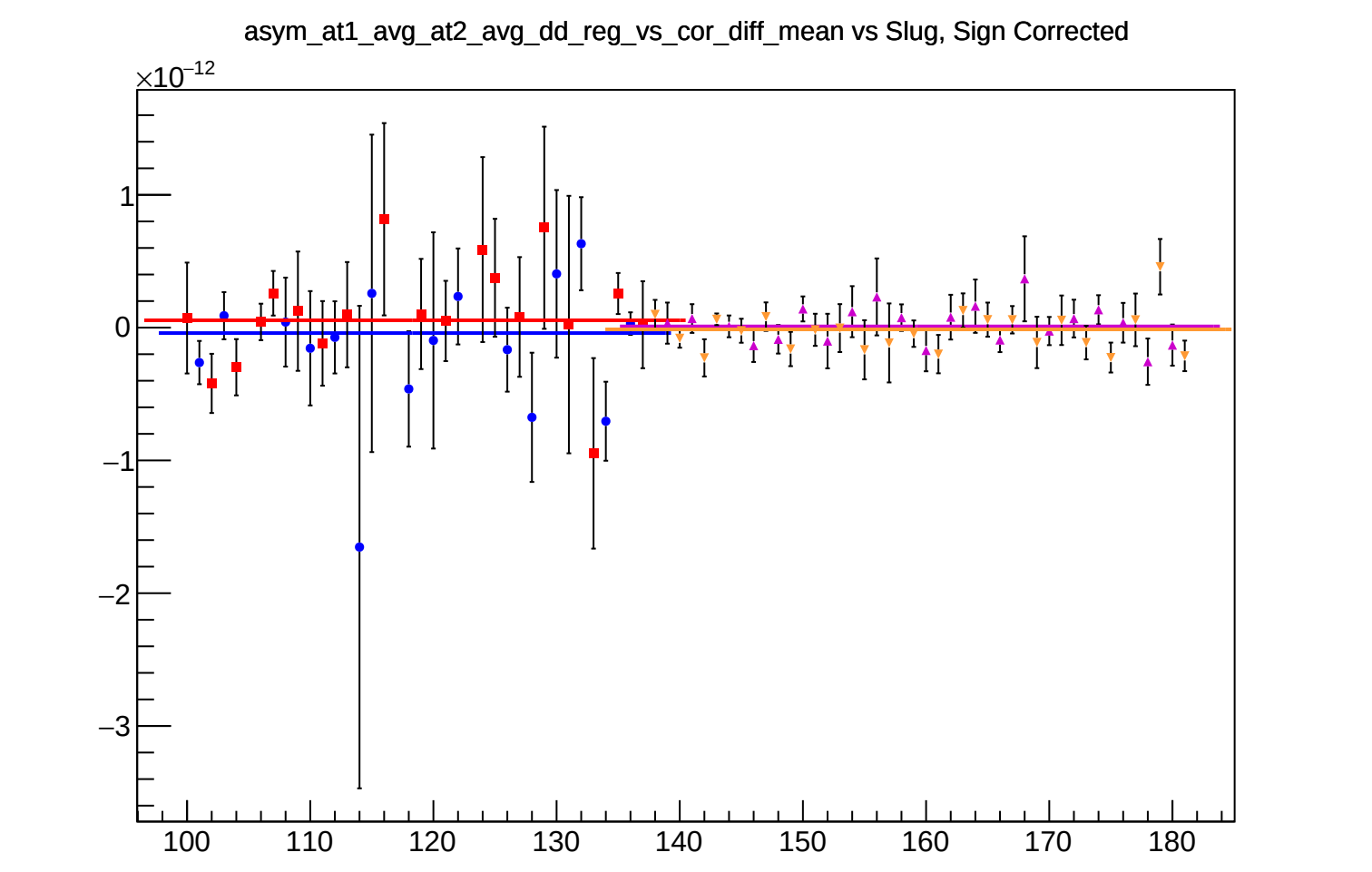
Left: 4298.207+/-0.523 $\chi^2$/NDF: 2911135.4/43

Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 4194.150+/-0.612 $\chi^2$/NDF:1700257.4/36

Out: 3928.646+/-0.566 $\chi^2$/NDF:2733179.7/41

All: 4051.131+/-0.416 $\chi^2$/NDF: 4534829.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.5/20

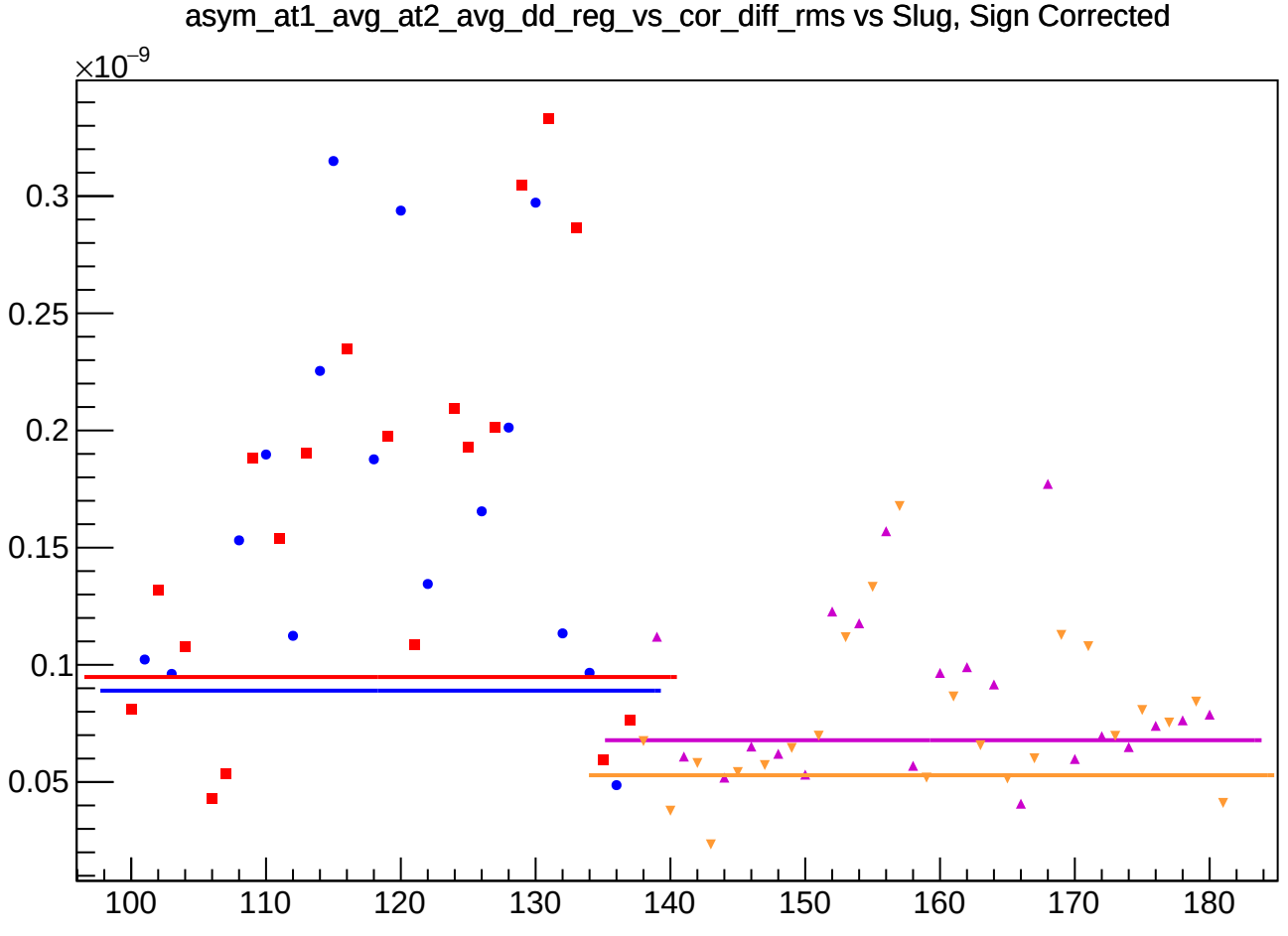
Left: -0.000+/-0.000 $\chi^2$/NDF: 42.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:32.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:43.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 76.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2614098.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1395768.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4353207.3/43

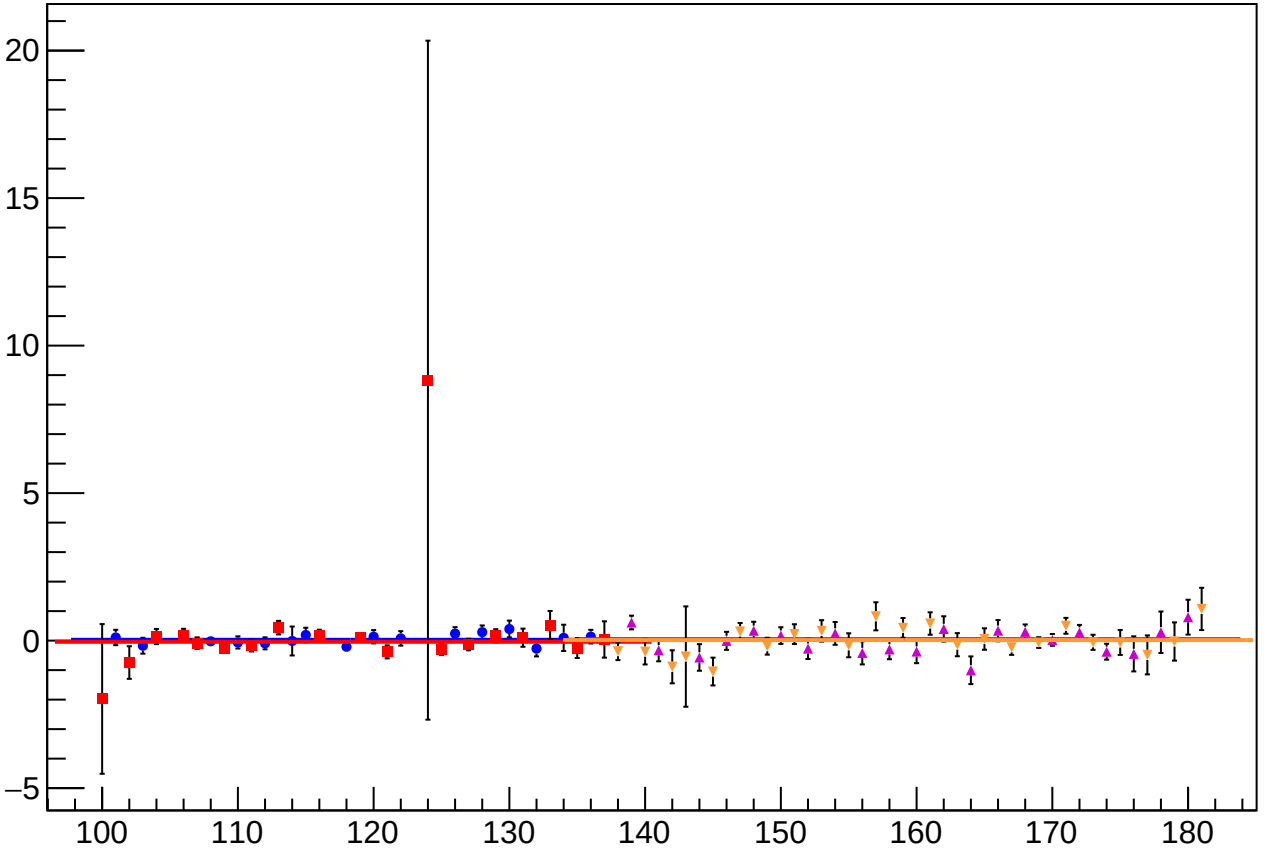
Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:3066247.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5111328.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8541239.8/78

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

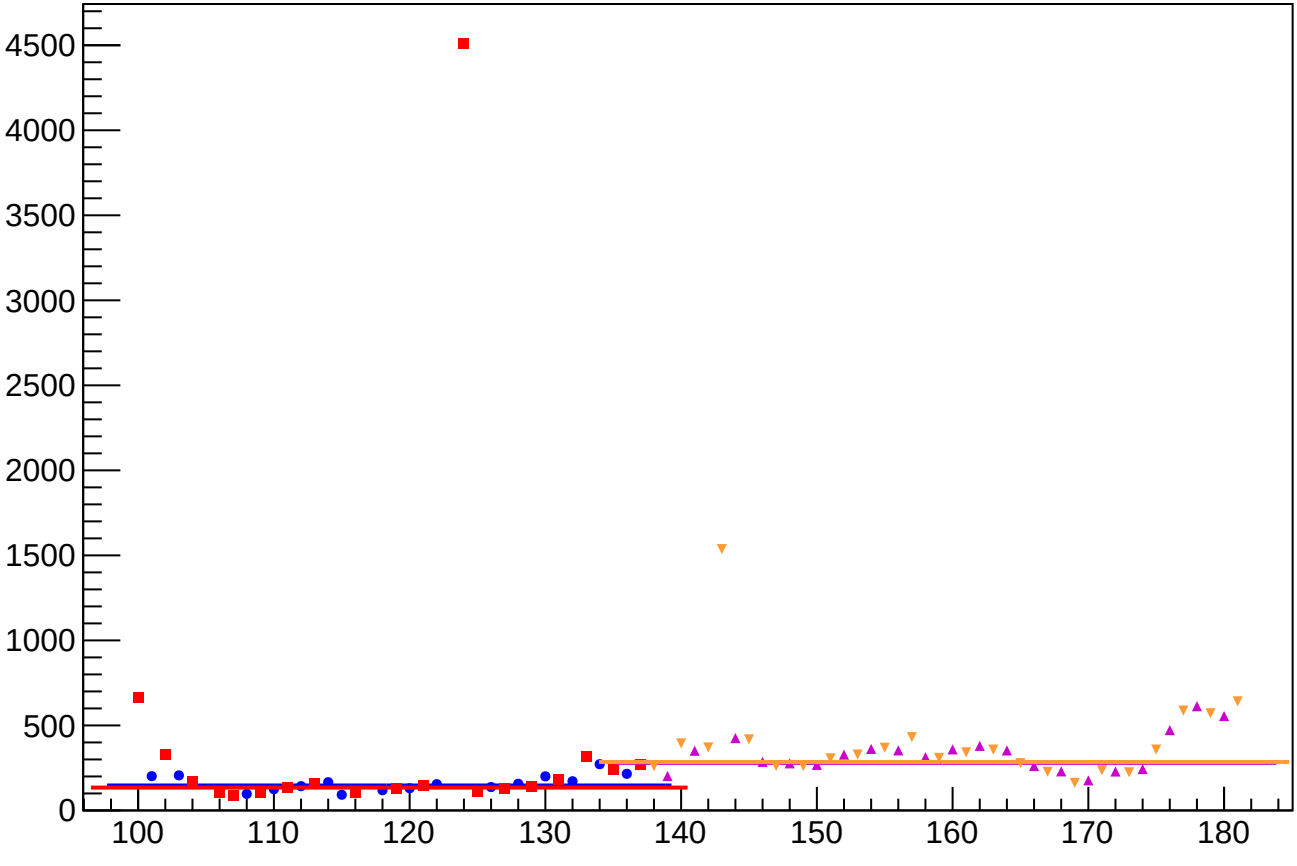
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442266.0/22

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 279.868+/-0.050 $\chi^2$/NDF:2781571.7/20

Left: 282.499+/-0.036 $\chi^2$/NDF: 7229341.0/43

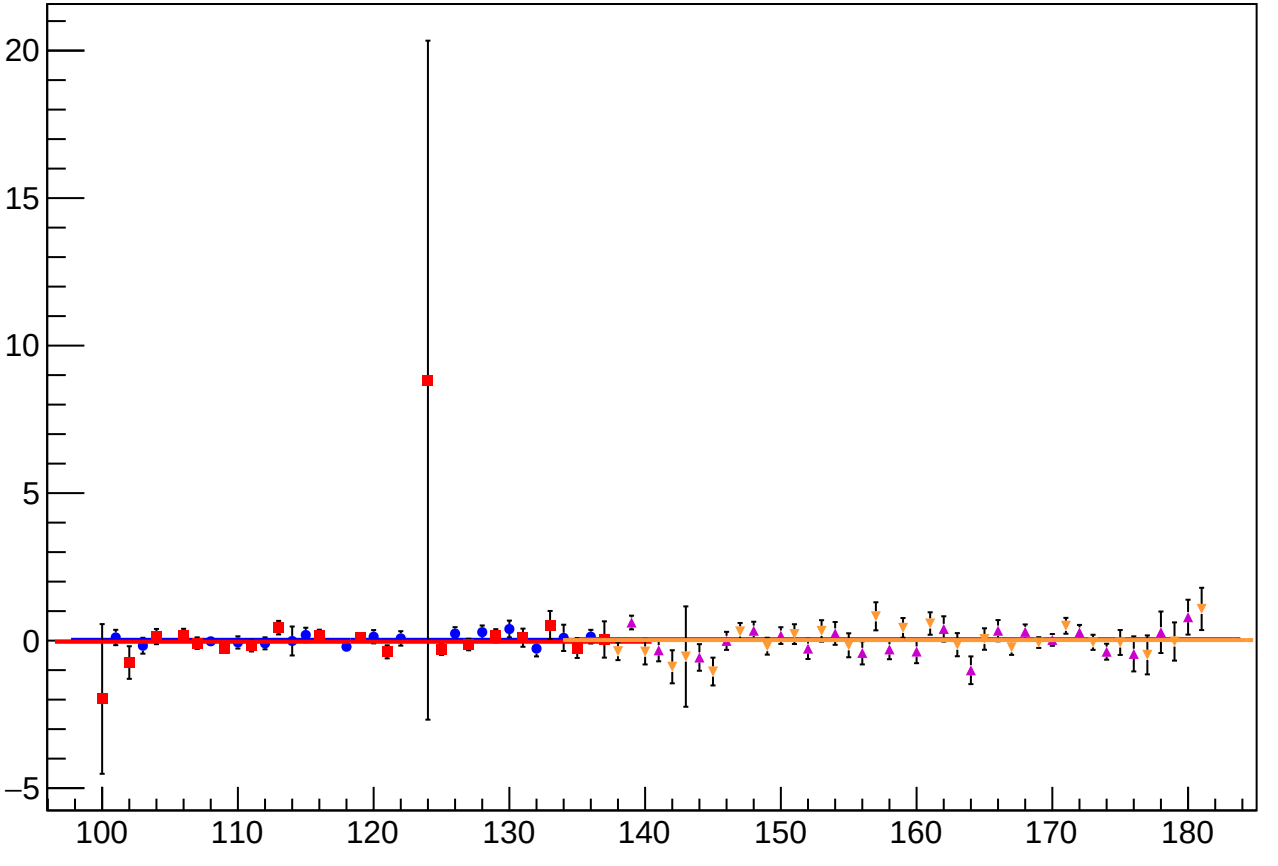
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985407.1/36

Out: 189.624+/-0.031 $\chi^2$/NDF:11584381.2/41

All: 194.399+/-0.022 $\chi^2$/NDF: 19619100.6/78

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

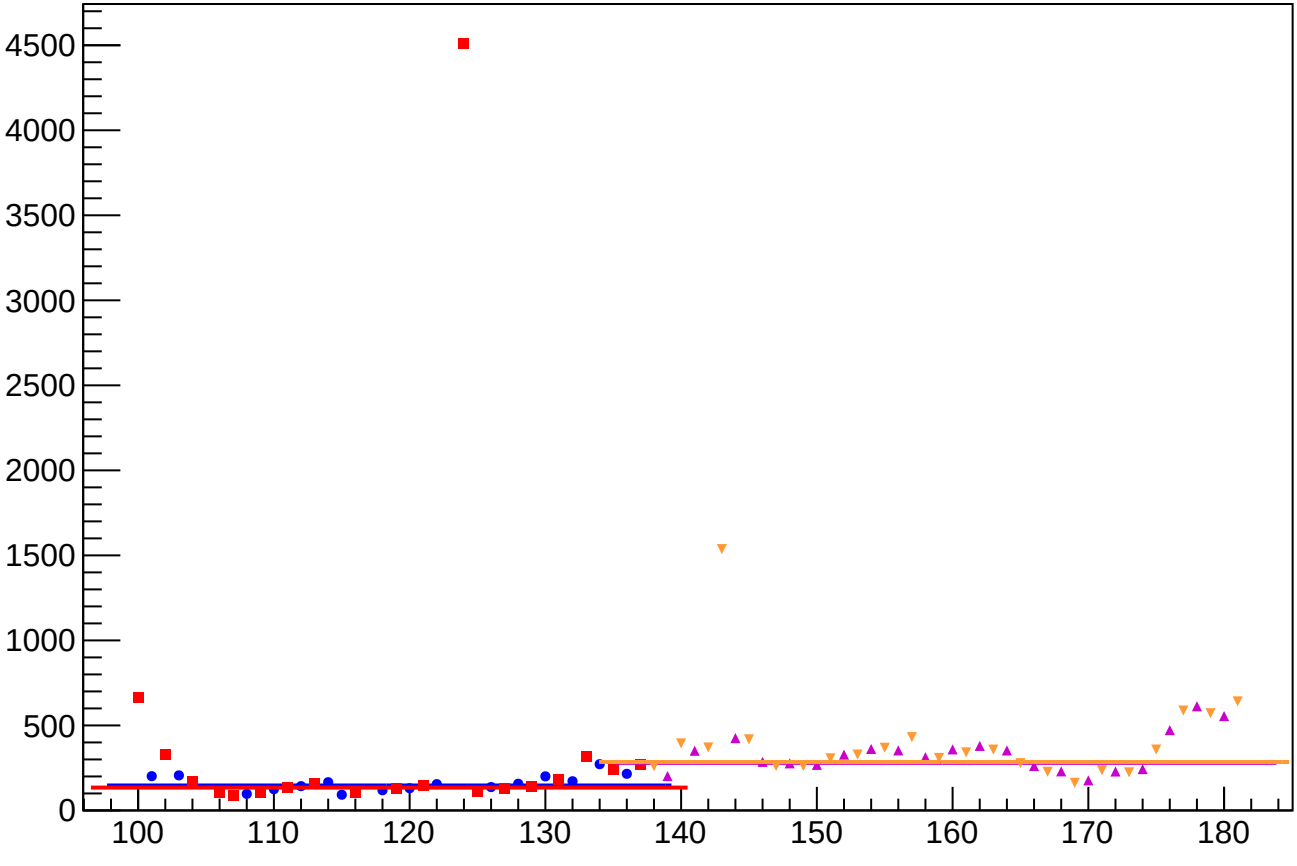
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442266.0/22

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 279.868+/-0.050 $\chi^2$/NDF:2781571.7/20

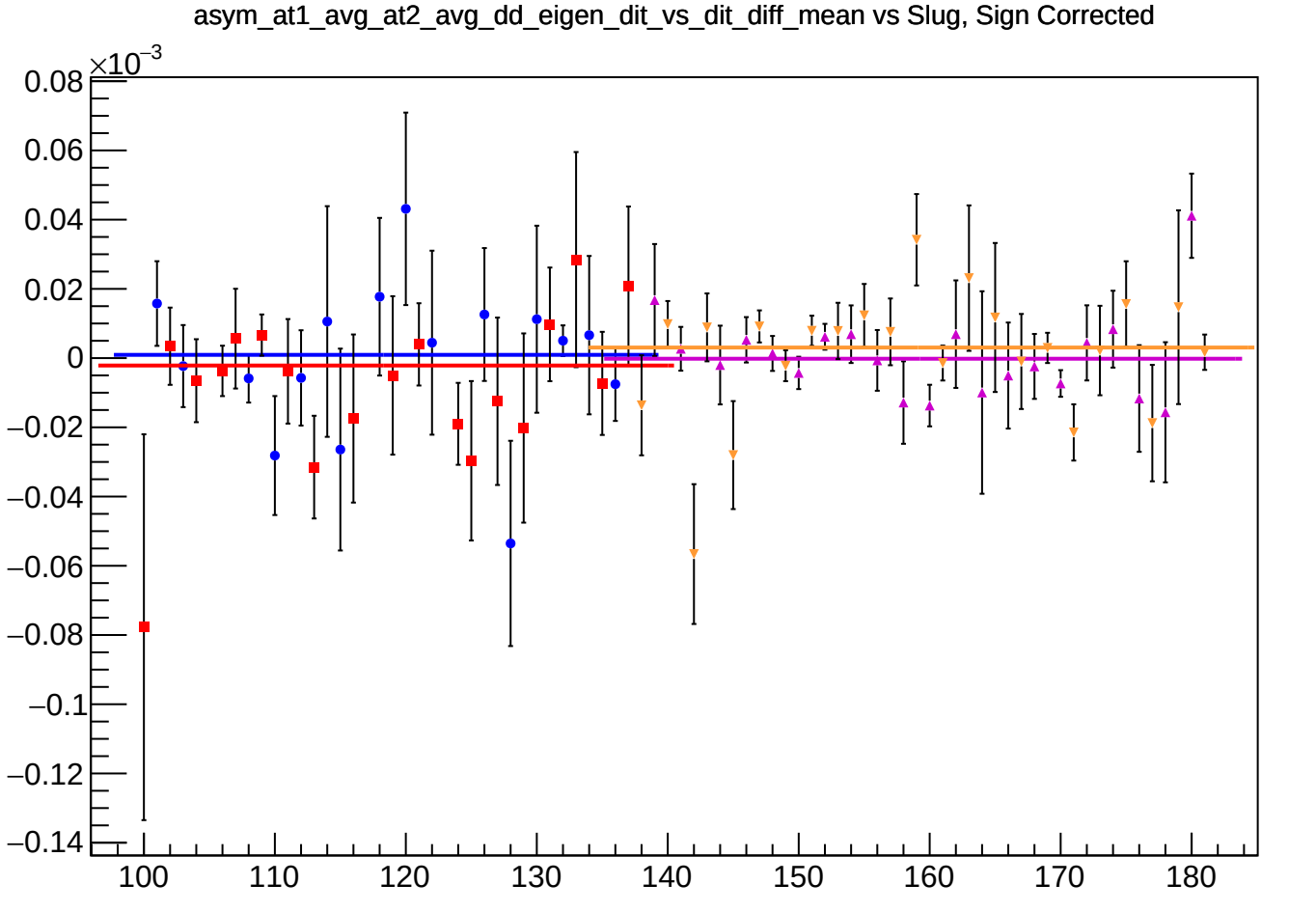
Left: 282.499+/-0.036 $\chi^2$/NDF: 7229341.0/43

Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

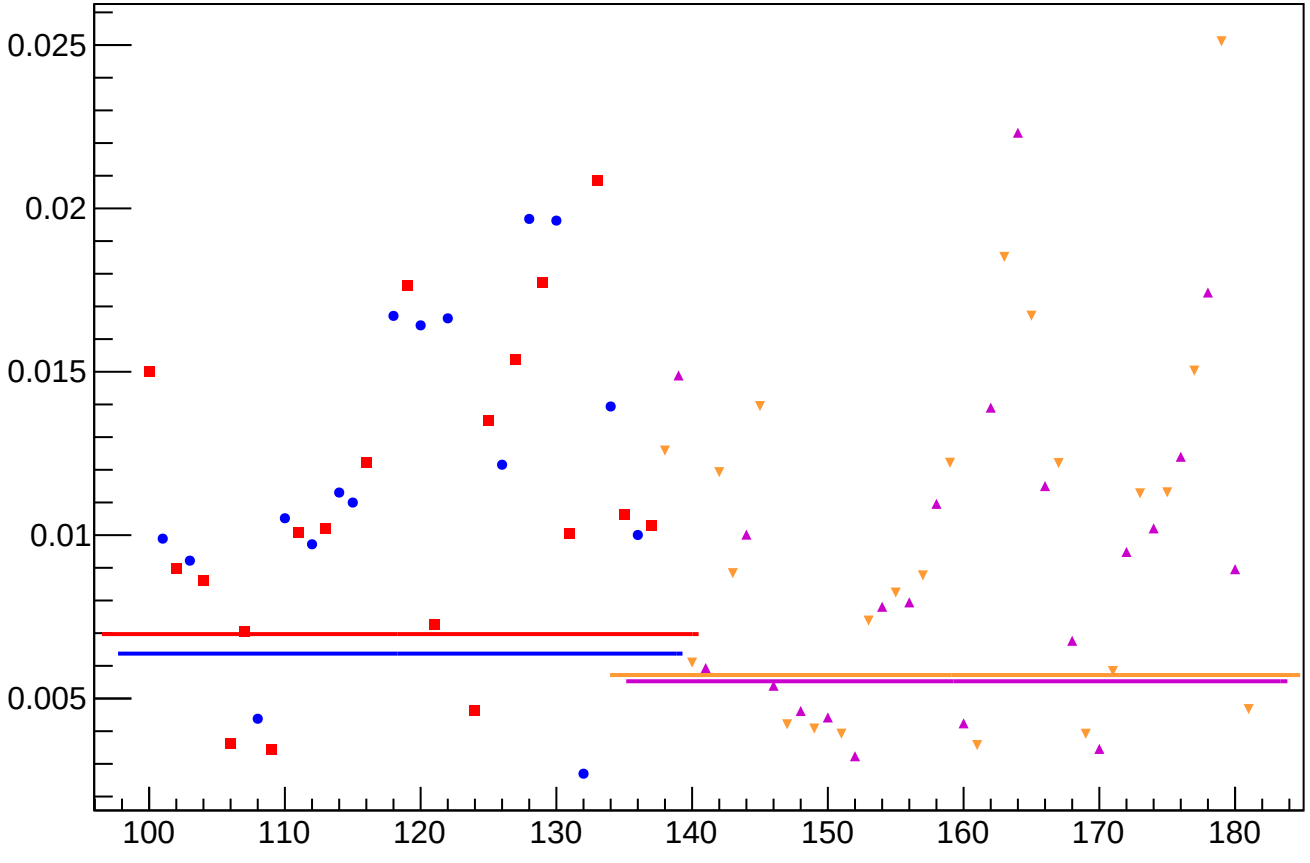
In: 199.450+/-0.032 $\chi^2$/NDF:7985407.1/36

Out: 189.624+/-0.031 $\chi^2$/NDF:11584381.2/41

All: 194.399+/-0.022 $\chi^2$/NDF: 19619100.6/78


asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 14.9/15
Left Out: 0.000+/-0.000 χ²/NDF:41.0/22
Right Out: -0.000+/-0.000 χ²/NDF: 16.0/18
Left In: -0.000+/-0.000 χ²/NDF:30.1/20
Left: 0.000+/-0.000 χ²/NDF: 73.1/43
Right: -0.000+/-0.000 χ²/NDF: 31.5/34
In: 0.000+/-0.000 χ²/NDF:45.0/36
Out: 0.000+/-0.000 χ²/NDF:59.4/41
All: 0.000+/-0.000 χ²/NDF: 105.3/78

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:7997784.9/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:6756812.9/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 14769249.6/43

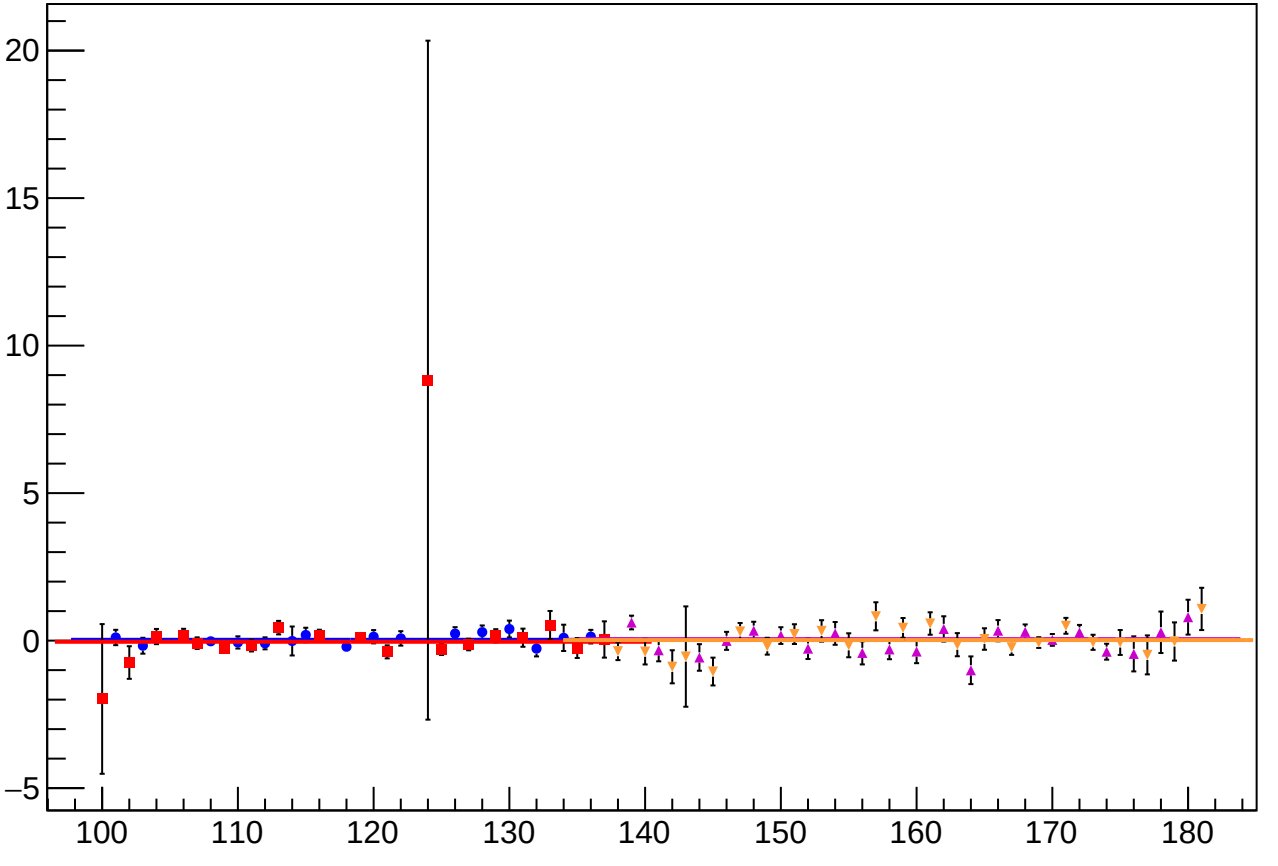
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.006+/-0.000 $\chi^2$/NDF:11525805.5/36

Out: 0.006+/-0.000 $\chi^2$/NDF:11680246.7/41

All: 0.006+/-0.000 $\chi^2$/NDF: 23242029.5/78

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

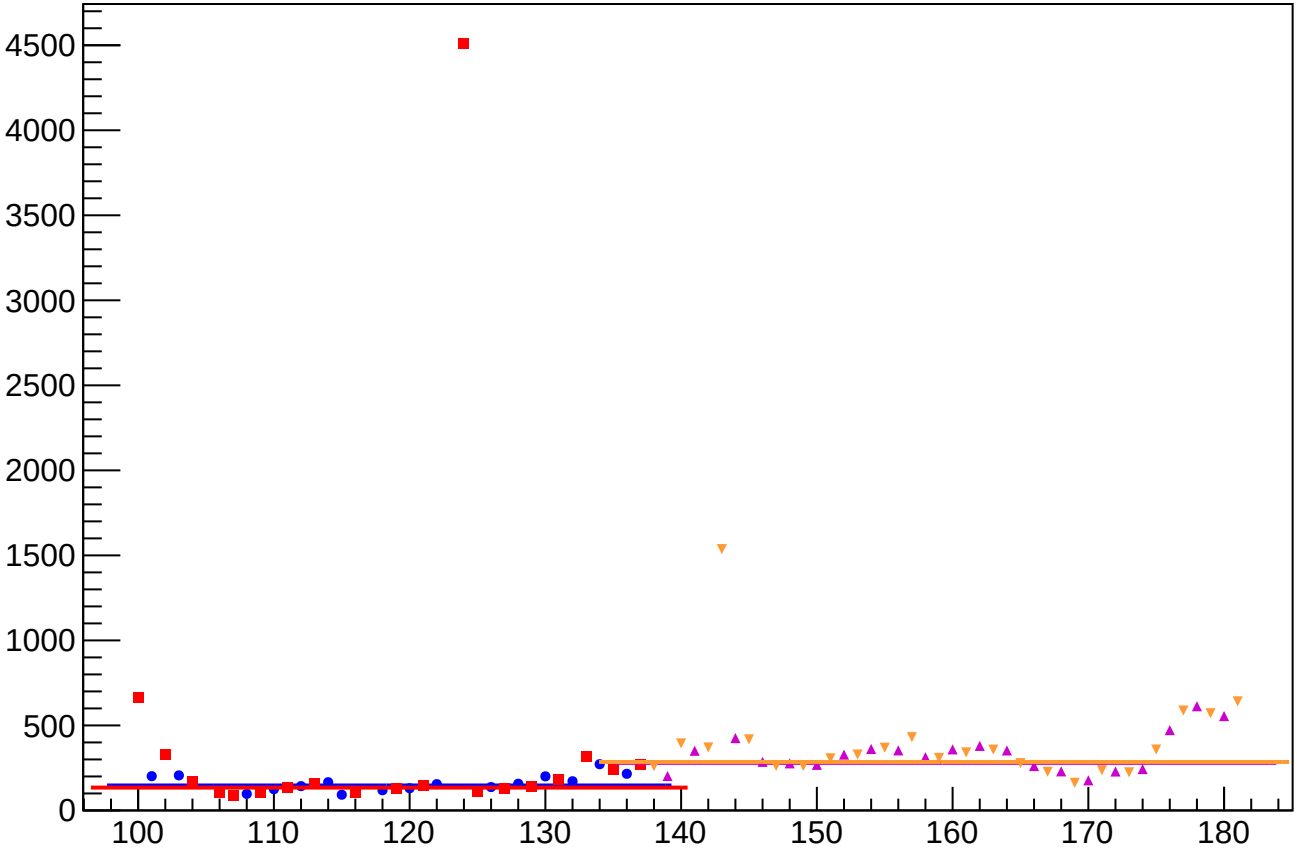
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442450.0/22

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 279.870+/-0.050 $\chi^2$/NDF:2781676.9/20

Left: 282.500+/-0.036 $\chi^2$/NDF: 7229627.2/43

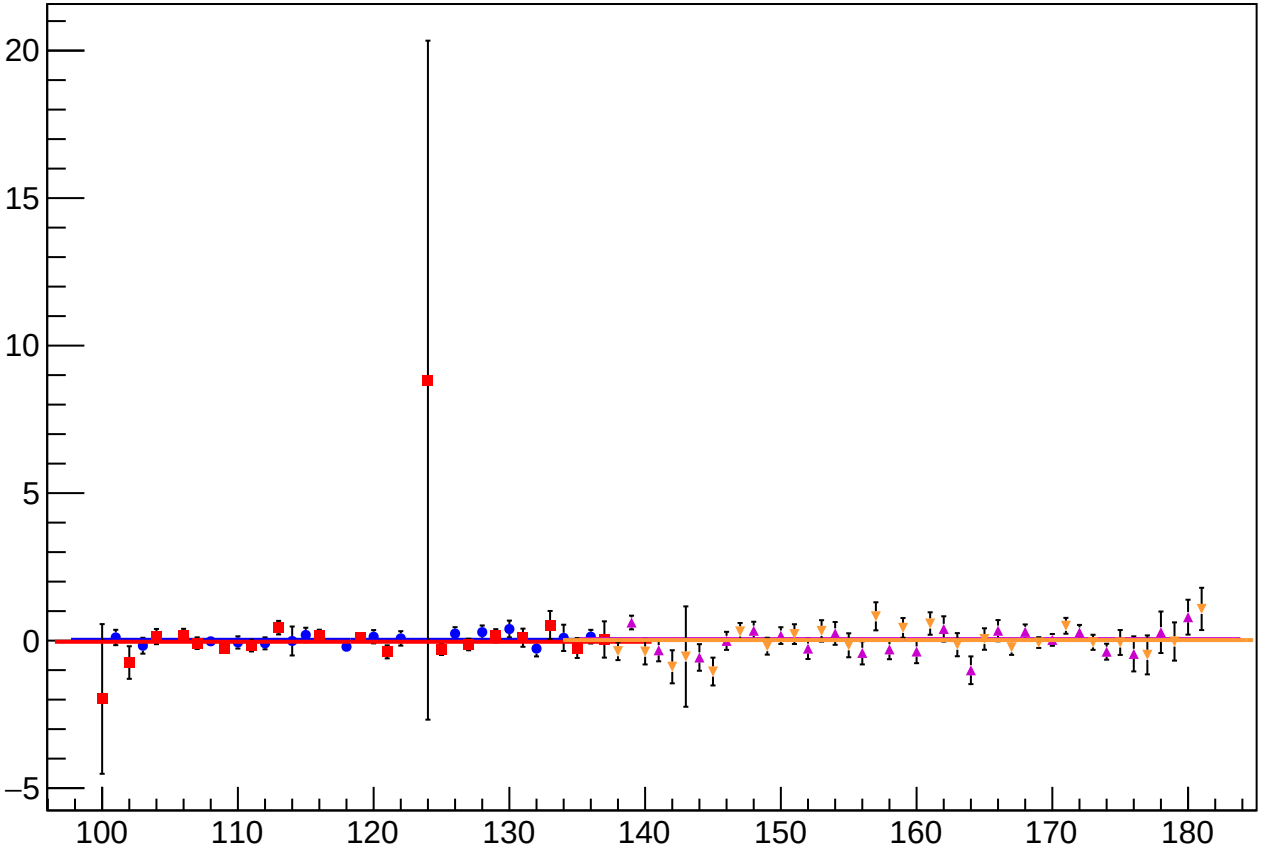
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985522.4/36

Out: 189.625+/-0.031 $\chi^2$/NDF:11584355.6/41

All: 194.400+/-0.022 $\chi^2$/NDF: 19619178.9/78

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

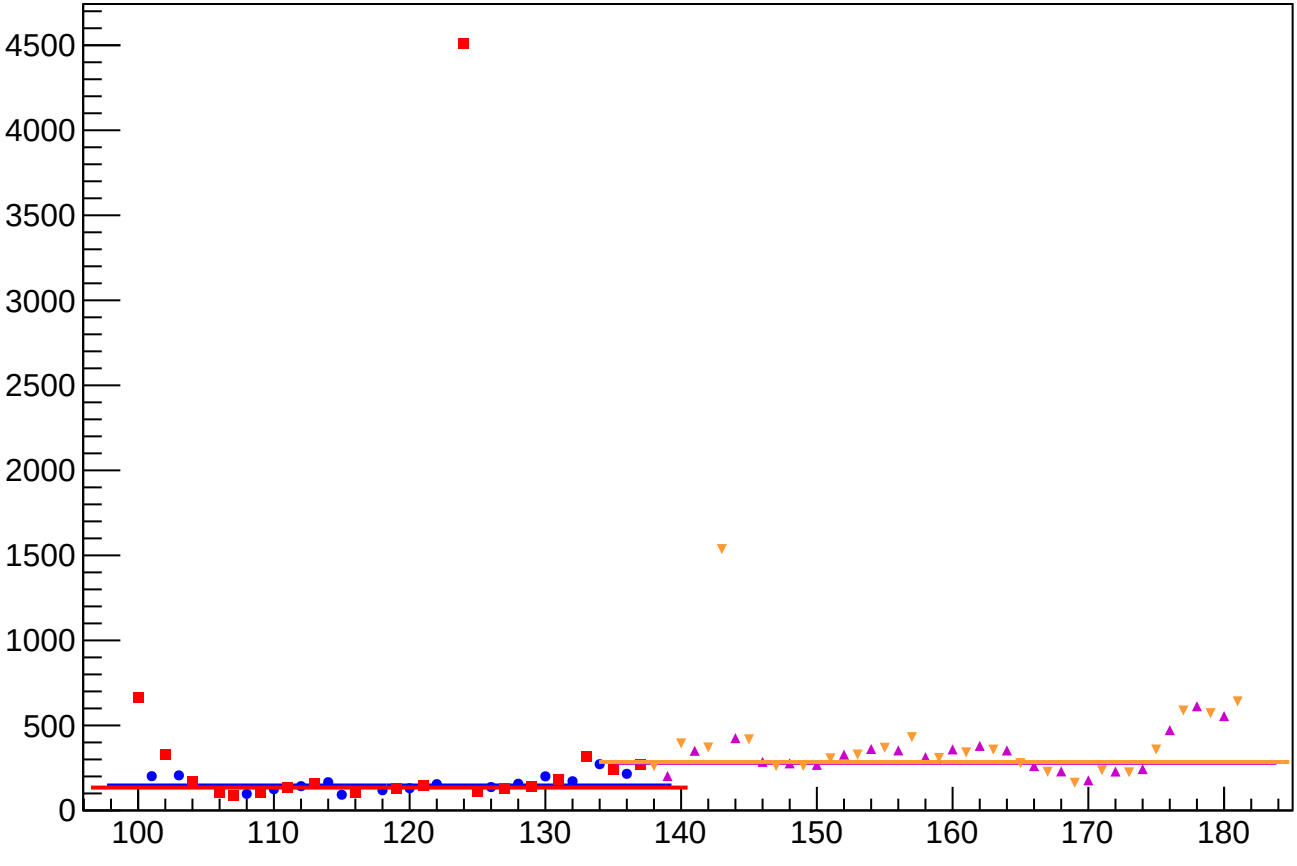
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442450.0/22

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 279.870+/-0.050 $\chi^2$/NDF:2781676.9/20

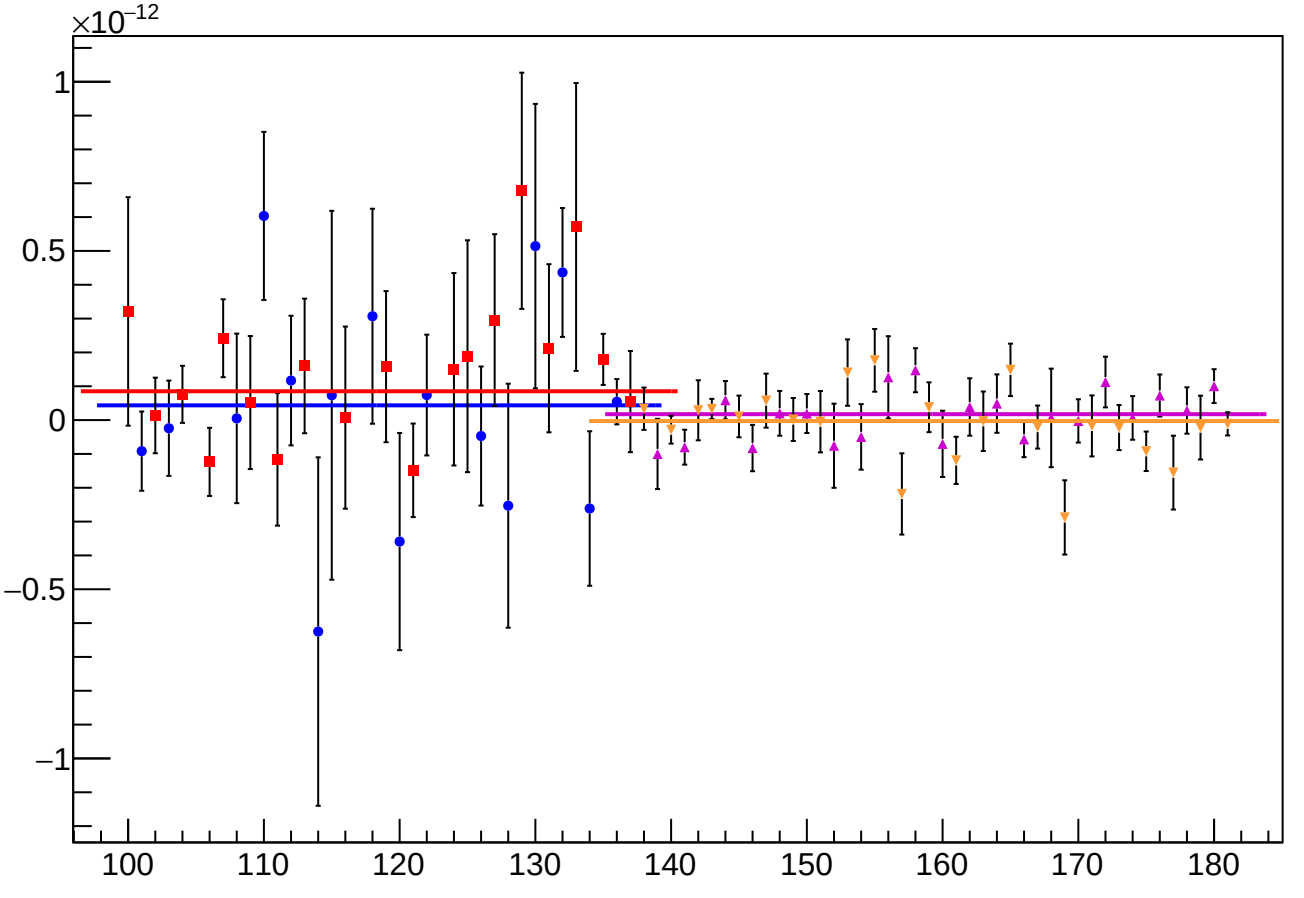
Left: 282.500+/-0.036 $\chi^2$/NDF: 7229627.2/43

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985522.4/36

Out: 189.625+/-0.031 $\chi^2$/NDF:11584355.6/41

All: 194.400+/-0.022 $\chi^2$/NDF: 19619178.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:30.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.6/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 52.9/43

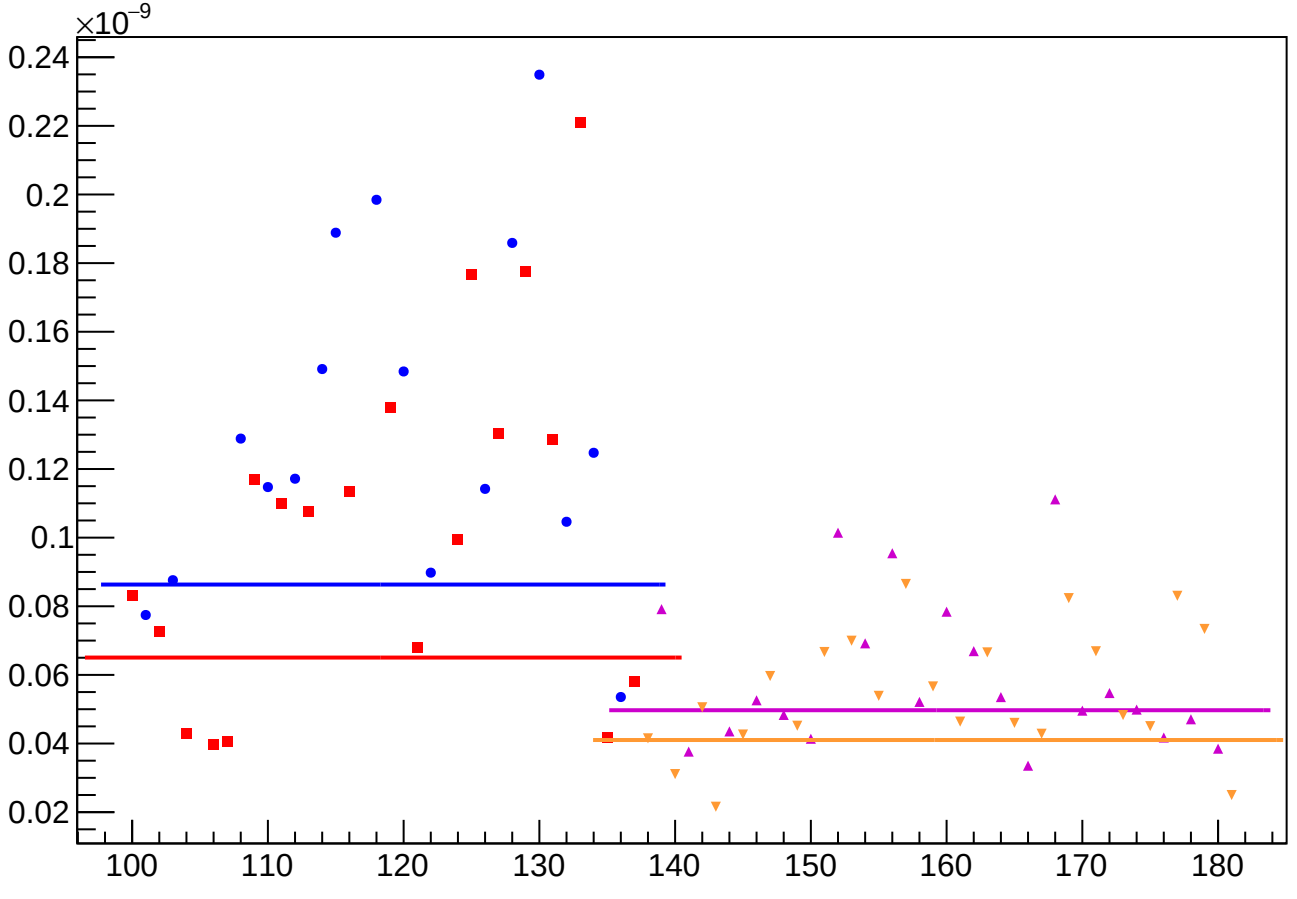
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:40.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:54.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 95.6/78

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1565662.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3512442.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2158861.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1999591.8/20

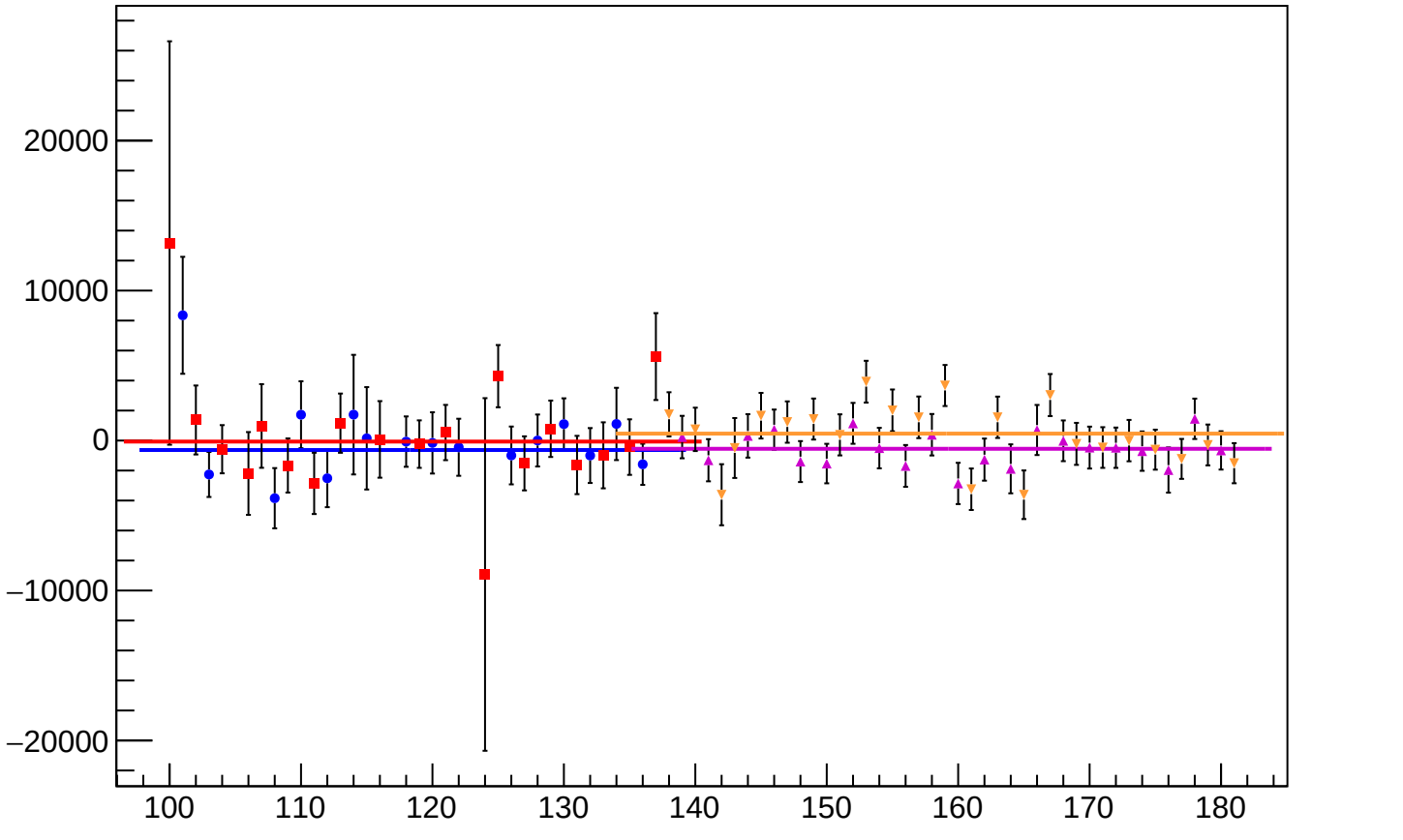
Left: 0.000+/-0.000 $\chi^2$/NDF: 5887861.0/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 4026528.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:4868574.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6532358.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11941020.3/78




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.177+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -549.417+/-303.758 $\chi^2$/NDF:13.1/20

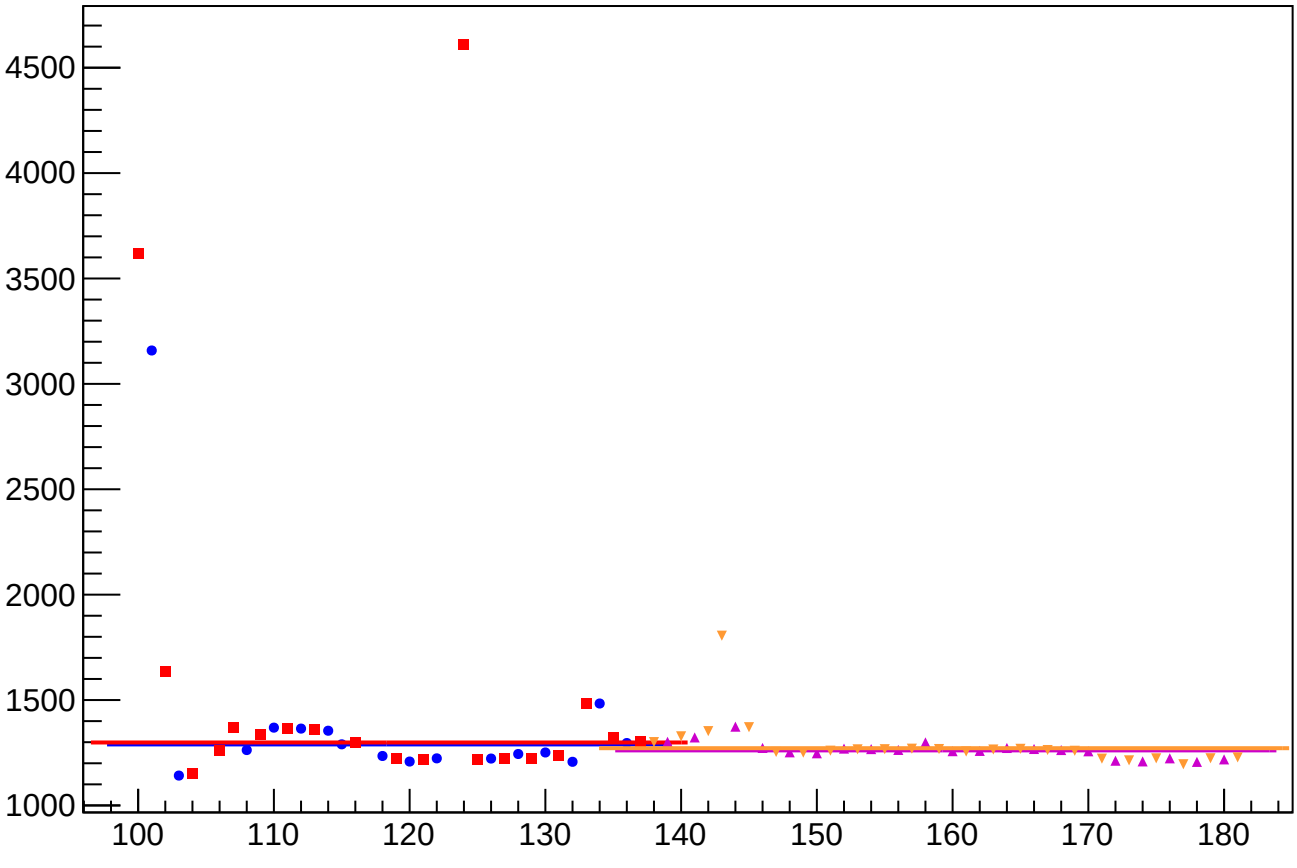
Left: -33.459+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -572.167+/-257.979 $\chi^2$/NDF:27.0/36

Out: 318.367+/-254.119 $\chi^2$/NDF:59.8/41

All: -120.189+/-181.039 $\chi^2$/NDF: 92.8/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.3/20

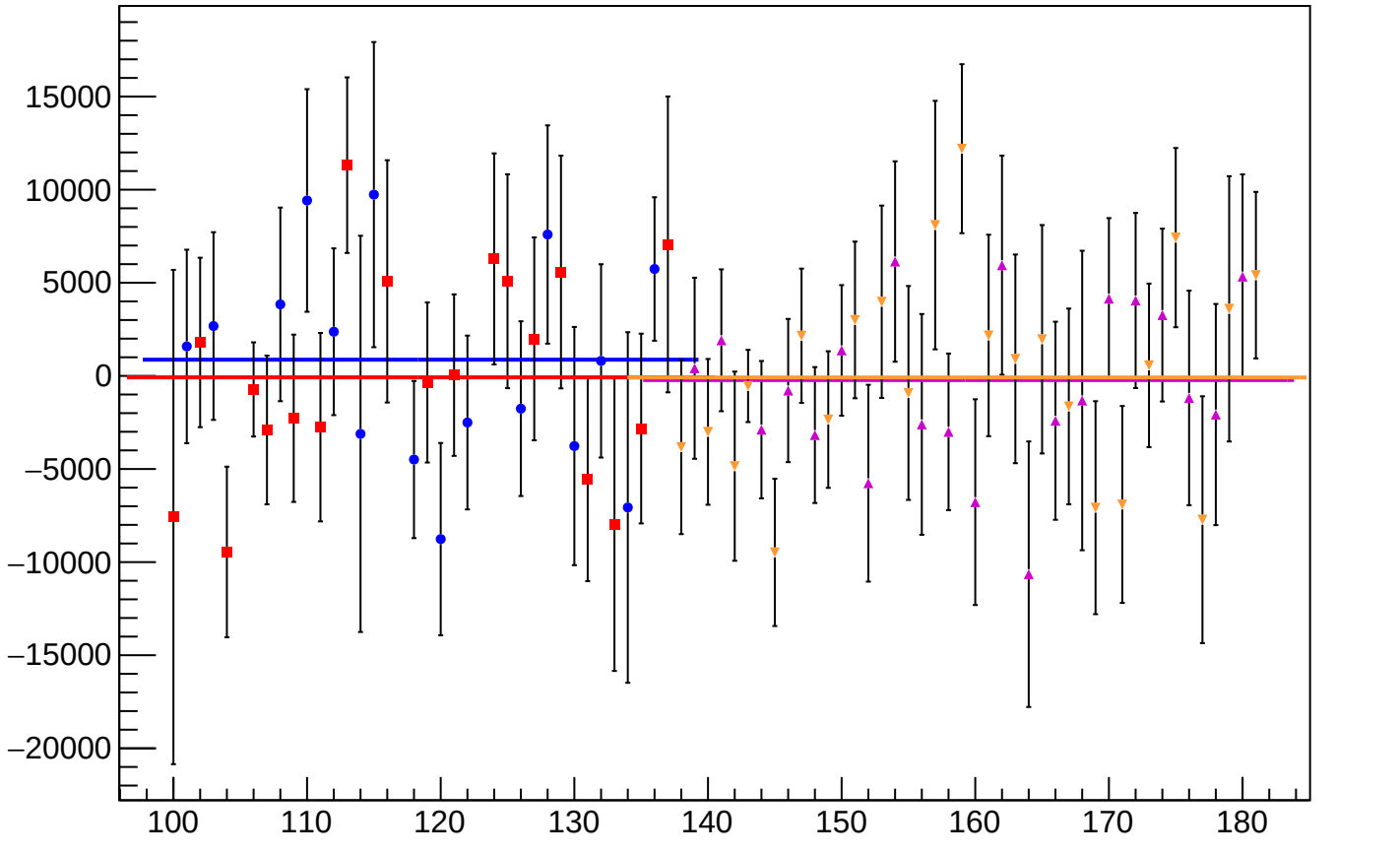
Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551922.0/36

Out: 1278.941+/-0.180 $\chi^2$/NDF:503609.3/41

All: 1274.078+/-0.128 $\chi^2$/NDF: 1057021.8/78




Right In: 870.295+/-1325.278 $\chi^2$/NDF: 14.0/15

Left Out: -84.743+/-909.482 $\chi^2$/NDF:27.7/22

Right Out: -77.323+/-1111.074 $\chi^2$/NDF: 18.4/18

Left In: -223.001+/-1035.187 $\chi^2$/NDF:13.2/20

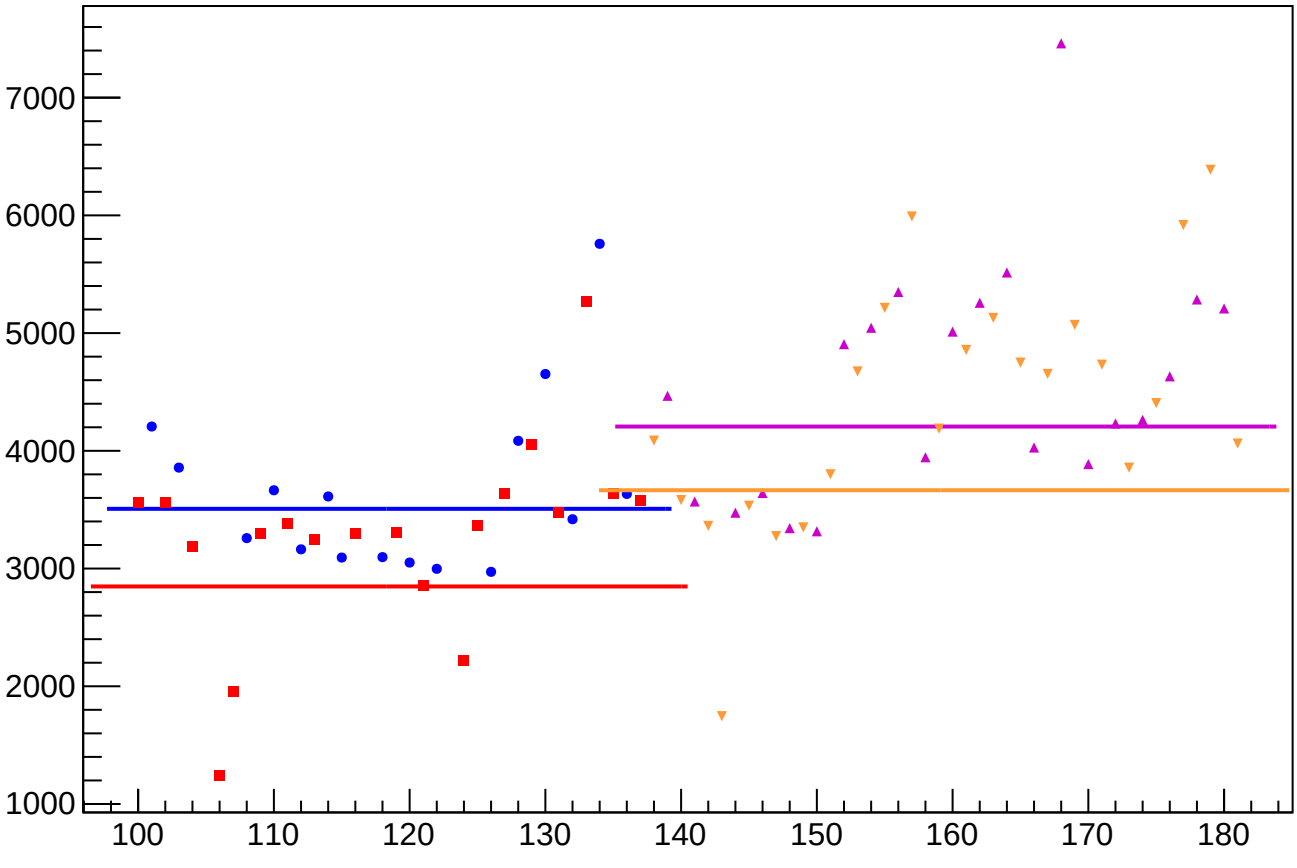
Left: -144.972+/-683.246 $\chi^2$/NDF: 40.9/43

Right: 313.810+/-851.438 $\chi^2$/NDF: 32.7/34

In: 191.285+/-815.808 $\chi^2$/NDF:27.7/36

Out: -81.766+/-703.770 $\chi^2$/NDF:46.1/41

All: 34.736+/-532.885 $\chi^2$/NDF: 73.8/78




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 3665.168+/-0.643 $\chi^2$/NDF:3675034.8/22

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 4206.175+/-0.732 $\chi^2$/NDF:1248623.3/20

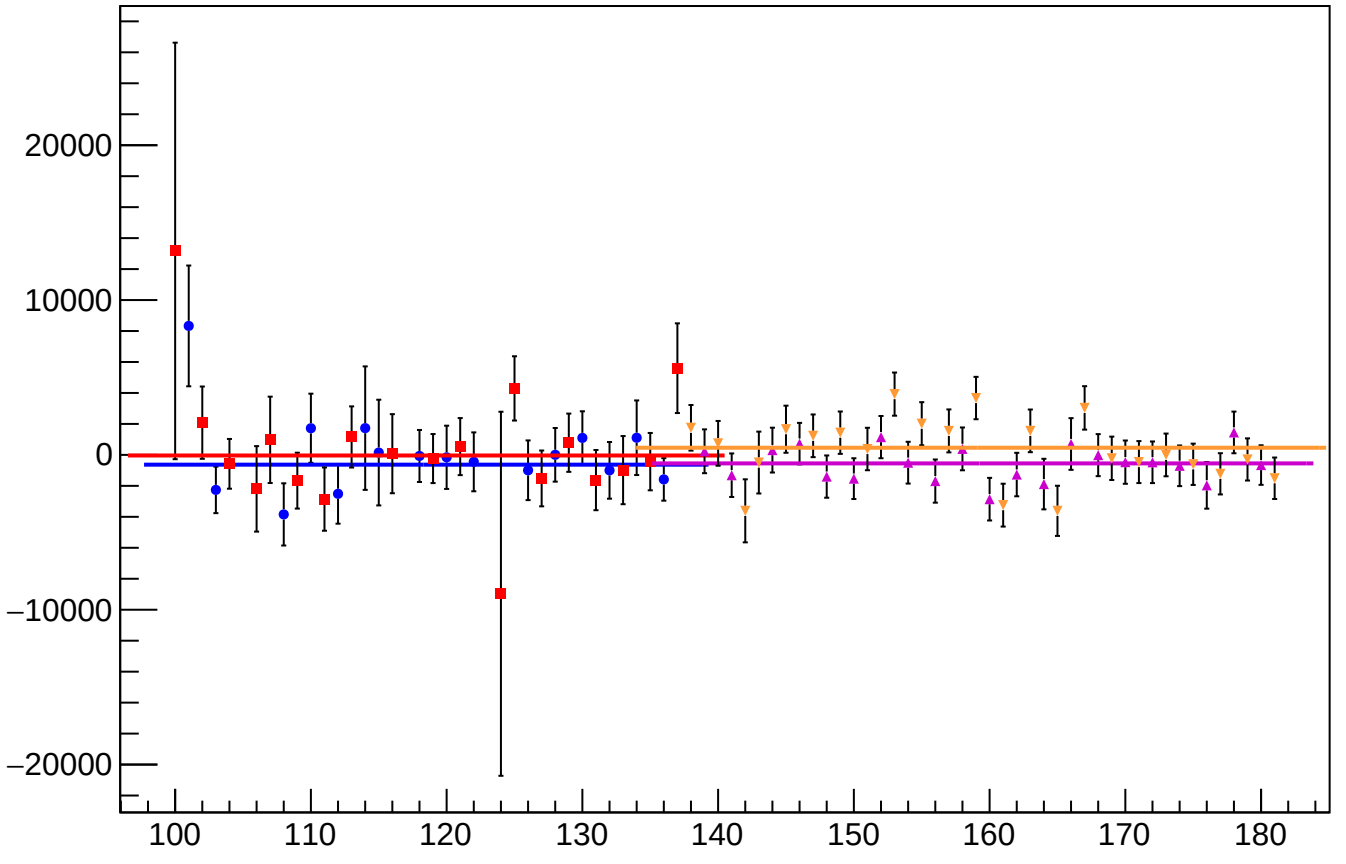
Left: 3900.846+/-0.483 $\chi^2$/NDF: 5231950.4/43

Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3941.385+/-0.577 $\chi^2$/NDF:1947931.3/36

Out: 3337.243+/-0.498 $\chi^2$/NDF:5822471.1/41

All: 3595.011+/-0.377 $\chi^2$/NDF: 8399239.7/78




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.210+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -549.318+/-303.758 $\chi^2$/NDF:13.1/20

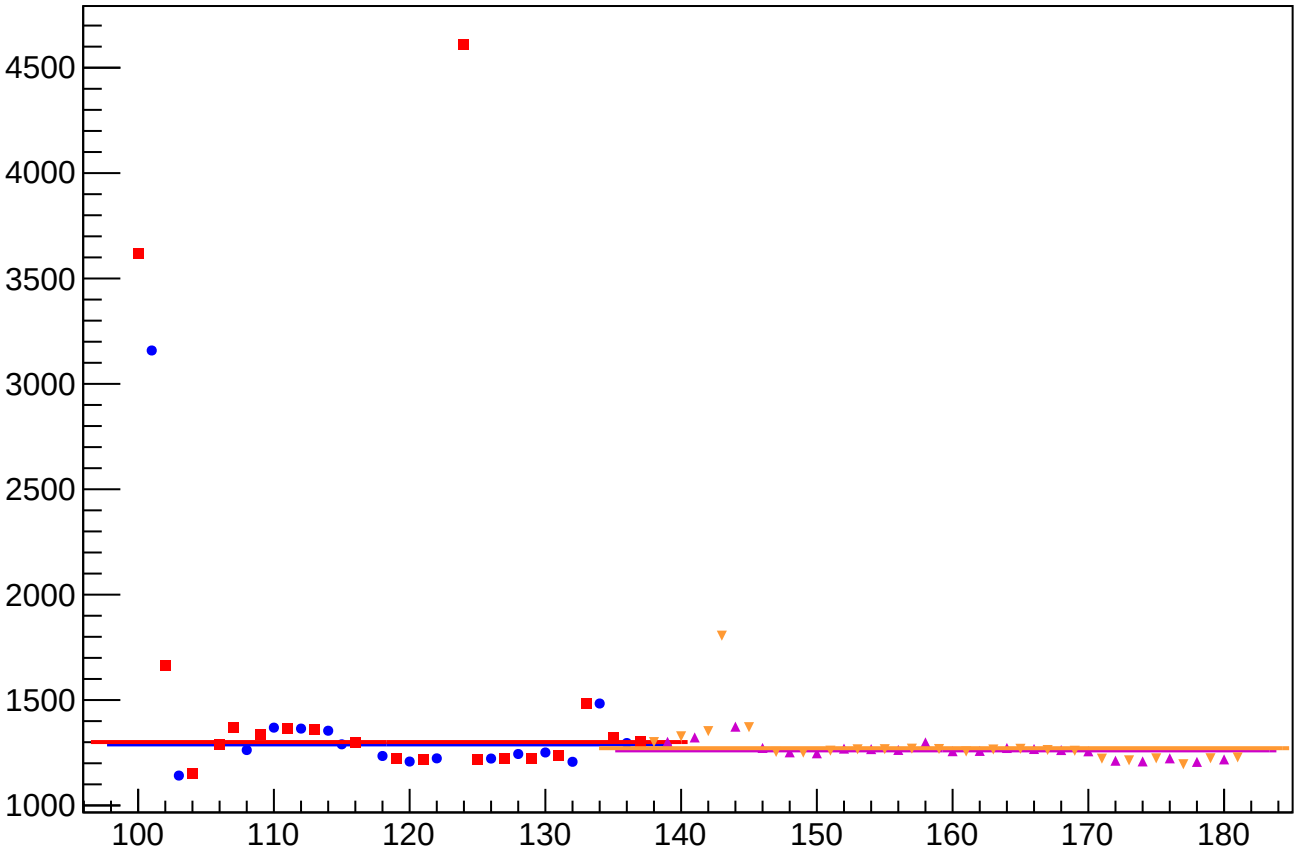
Left: -33.394+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -572.202+/-257.979 $\chi^2$/NDF:27.0/36

Out: 326.399+/-254.165 $\chi^2$/NDF:60.1/41

All: -116.211+/-181.055 $\chi^2$/NDF: 93.3/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.2/20

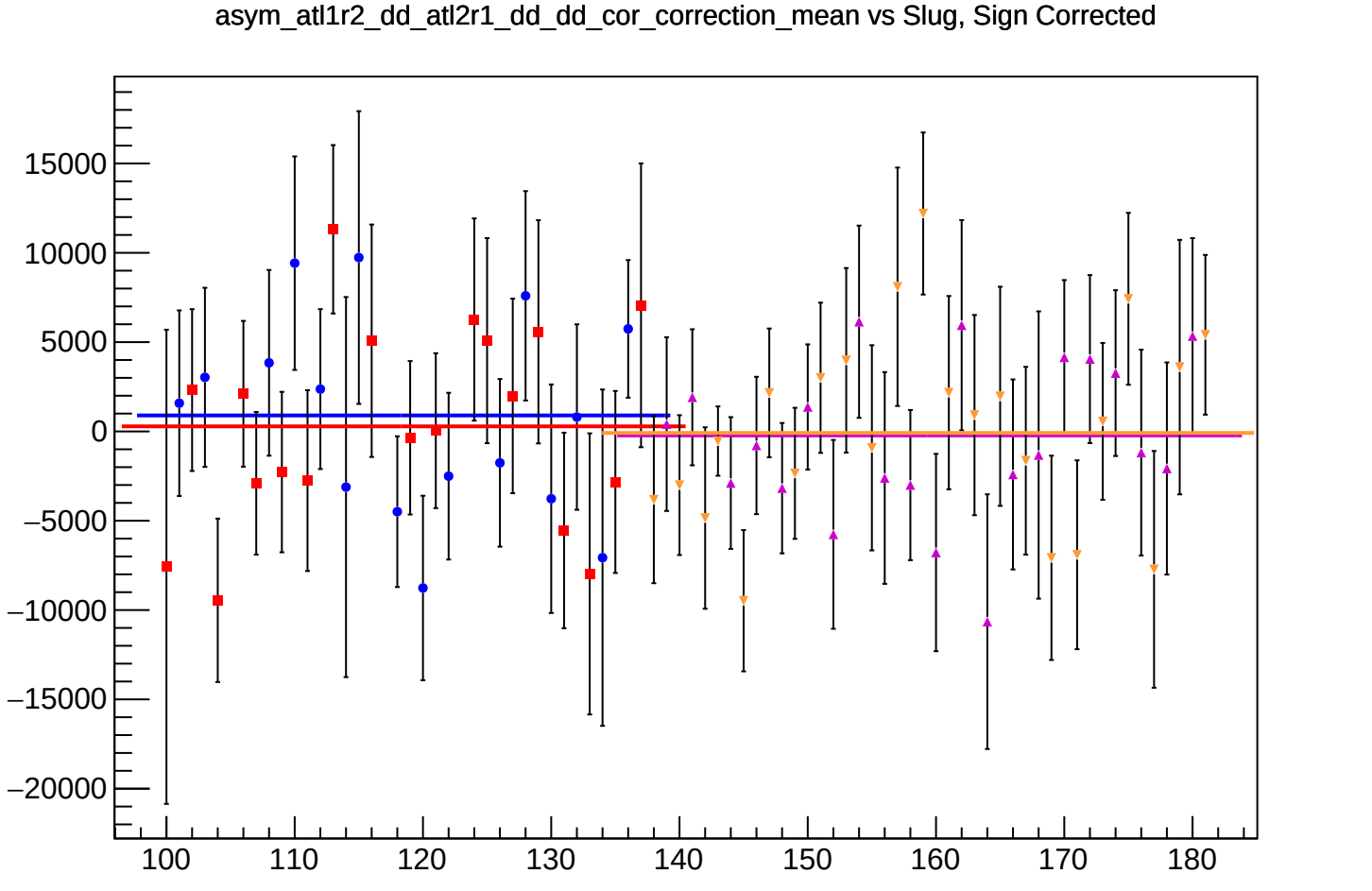
Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551923.4/36

Out: 1279.478+/-0.180 $\chi^2$/NDF:510832.3/41

All: 1274.349+/-0.128 $\chi^2$/NDF: 1064411.8/78




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -84.671+/-909.481 $\chi^2$/NDF:27.7/22

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -222.990+/-1035.185 $\chi^2$/NDF:13.2/20

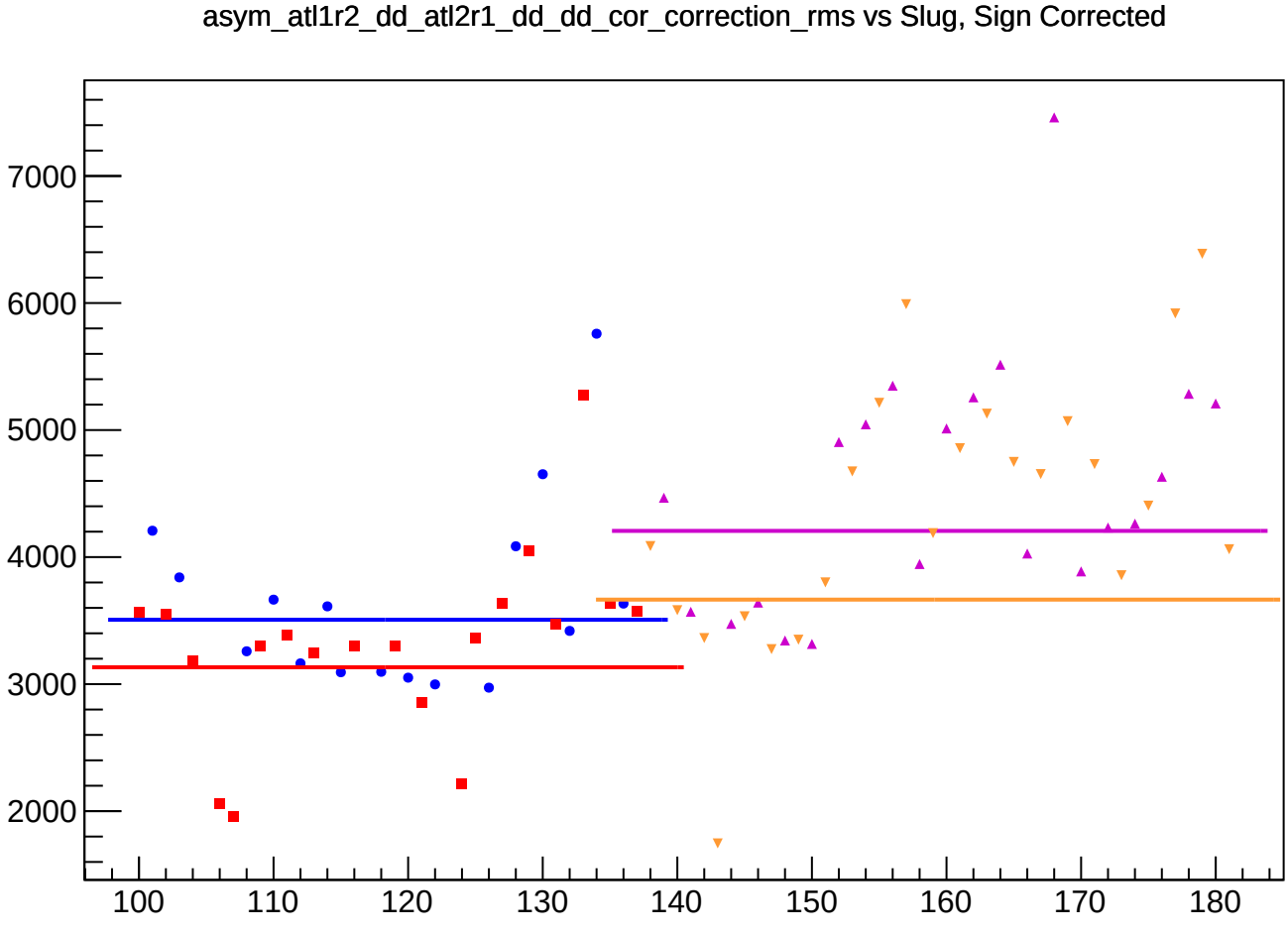
Left: -144.927+/-683.245 $\chi^2$/NDF: 40.9/43

Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 201.218+/-815.701 $\chi^2$/NDF:27.8/36

Out: 52.244+/-721.068 $\chi^2$/NDF:46.4/41

All: 117.592+/-540.246 $\chi^2$/NDF: 74.1/78




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 3665.160+/-0.643 $\chi^2$/NDF:3675073.2/22

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 4206.169+/-0.732 $\chi^2$/NDF:1248621.9/20

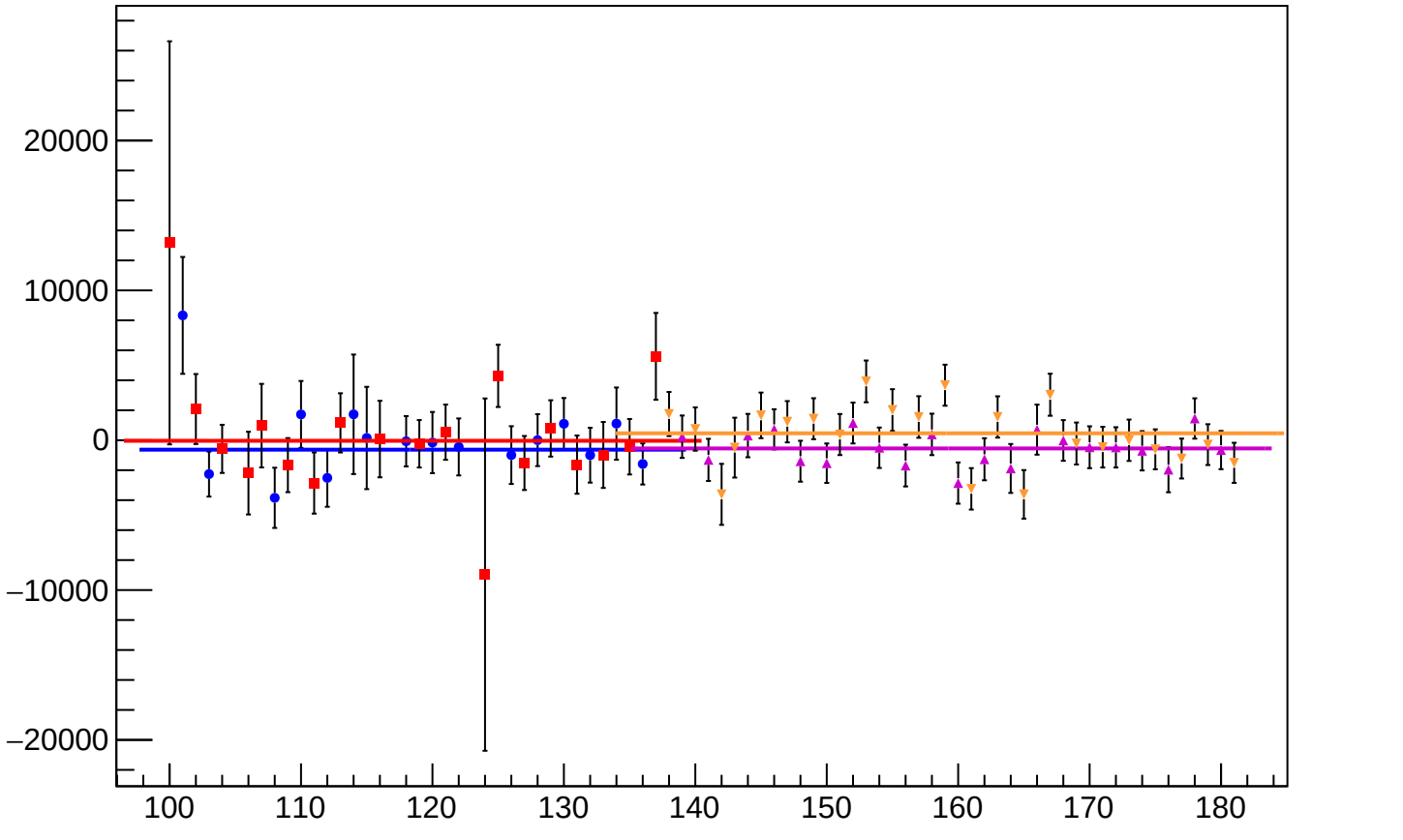
Left: 3900.839+/-0.483 $\chi^2$/NDF: 5231990.5/43

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3940.923+/-0.577 $\chi^2$/NDF:1948233.7/36

Out: 3467.355+/-0.510 $\chi^2$/NDF:4579402.4/41

All: 3675.087+/-0.382 $\chi^2$/NDF: 6906046.0/78




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 462.210+/-297.716 $\chi^2$/NDF:43.0/22

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -549.318+/-303.758 $\chi^2$/NDF:13.1/20

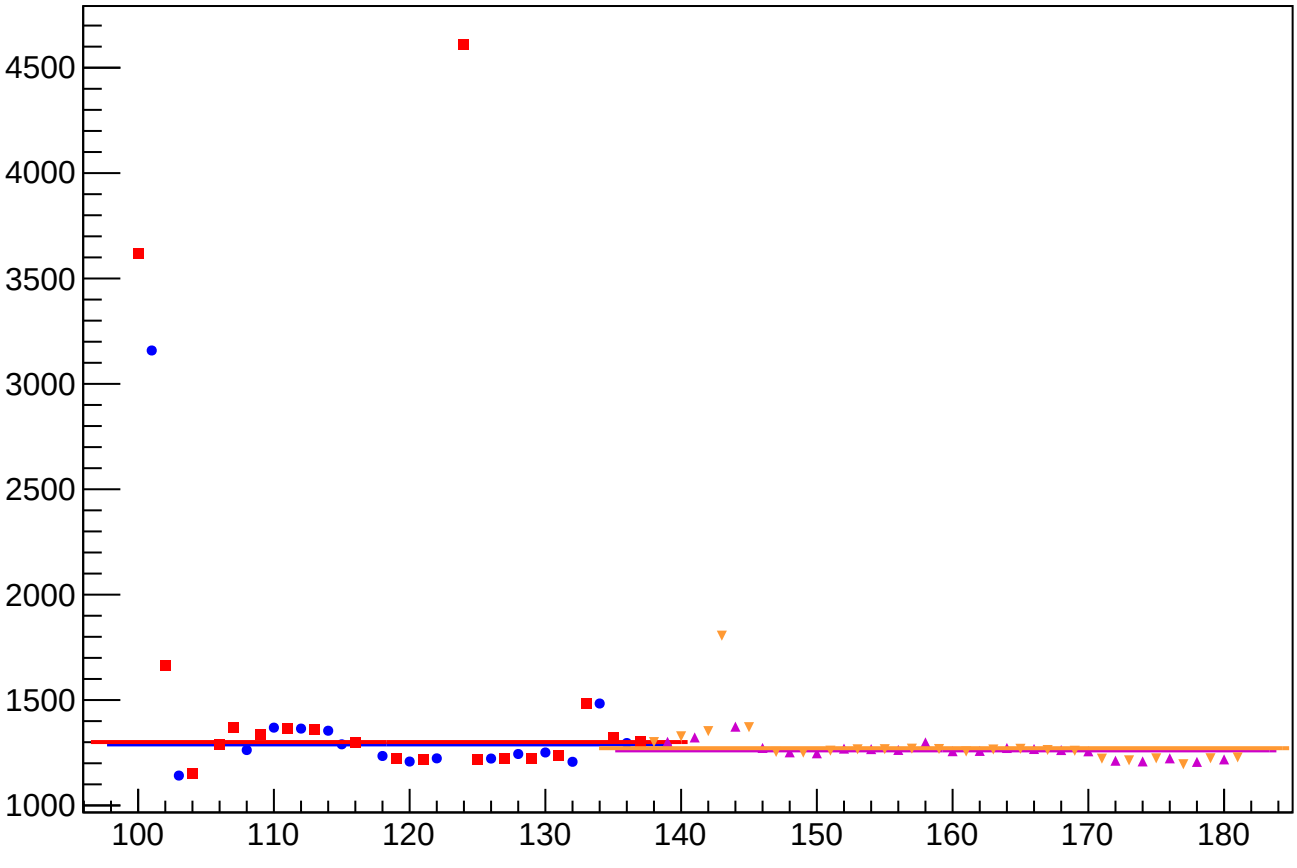
Left: -33.394+/-212.621 $\chi^2$/NDF: 61.8/43

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -572.202+/-257.979 $\chi^2$/NDF:27.0/36

Out: 326.399+/-254.165 $\chi^2$/NDF:60.1/41

All: -116.211+/-181.055 $\chi^2$/NDF: 93.3/78




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1271.558+/-0.211 $\chi^2$/NDF:179720.0/22

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1261.174+/-0.215 $\chi^2$/NDF:32411.2/20

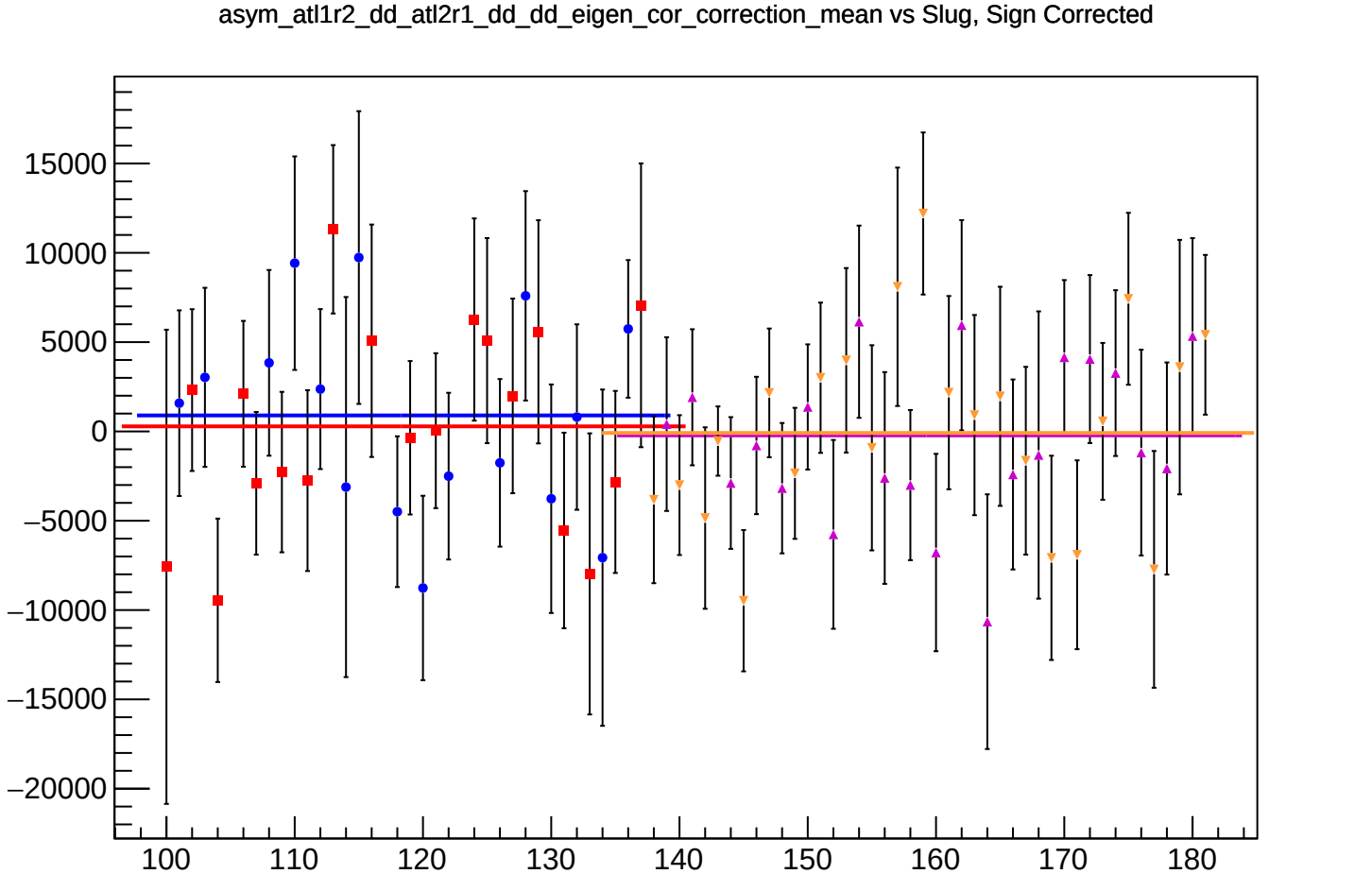
Left: 1266.470+/-0.150 $\chi^2$/NDF: 213323.3/43

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1269.059+/-0.182 $\chi^2$/NDF:551923.4/36

Out: 1279.478+/-0.180 $\chi^2$/NDF:510832.3/41

All: 1274.349+/-0.128 $\chi^2$/NDF: 1064411.8/78




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -84.671+/-909.481 $\chi^2$/NDF:27.7/22

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -222.990+/-1035.185 $\chi^2$/NDF:13.2/20

Left: -144.927+/-683.245 $\chi^2$/NDF: 40.9/43

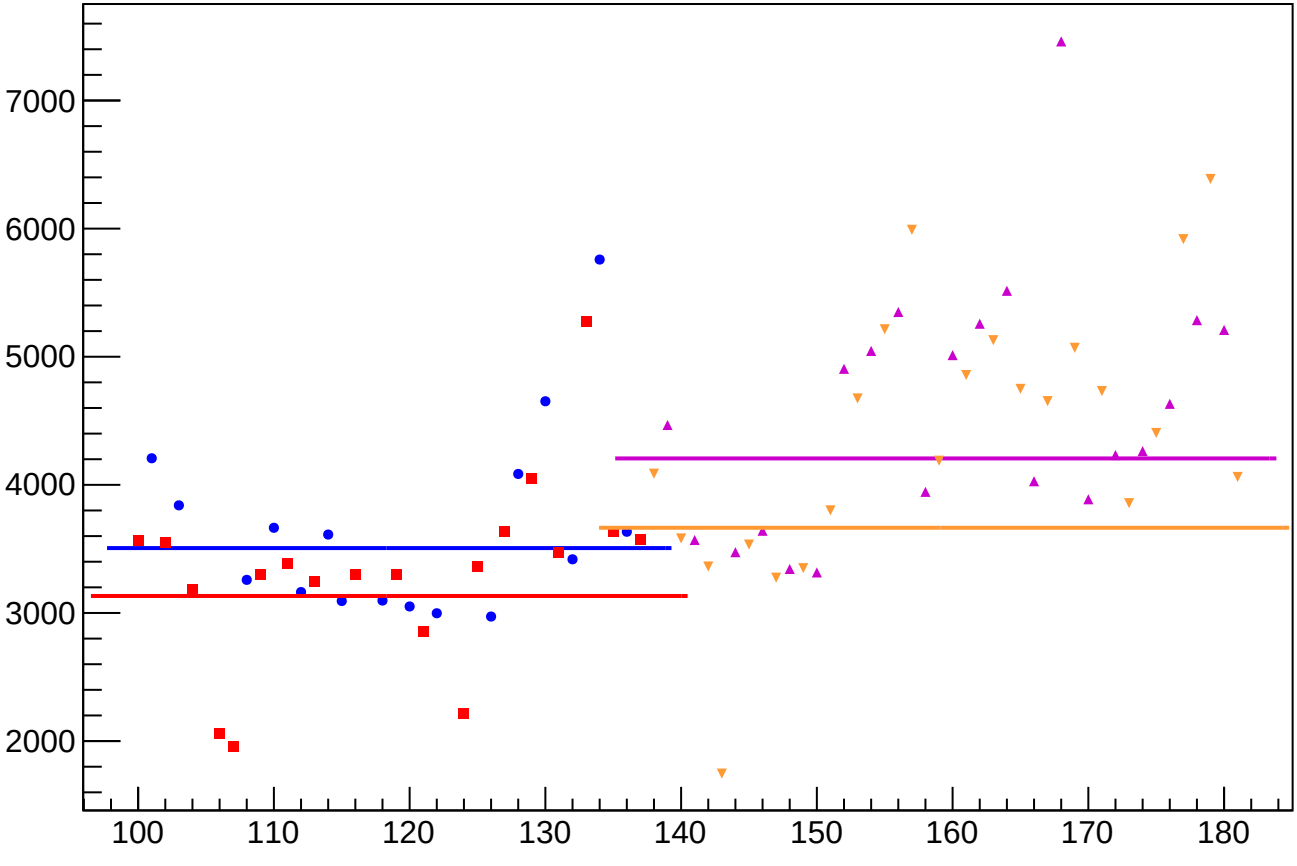
Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 201.218+/-815.701 $\chi^2$/NDF:27.8/36

Out: 52.244+/-721.068 $\chi^2$/NDF:46.4/41

All: 117.592+/-540.246 $\chi^2$/NDF: 74.1/78

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 3665.160+/-0.643 $\chi^2$/NDF:3675073.2/22

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 4206.169+/-0.732 $\chi^2$/NDF:1248621.9/20

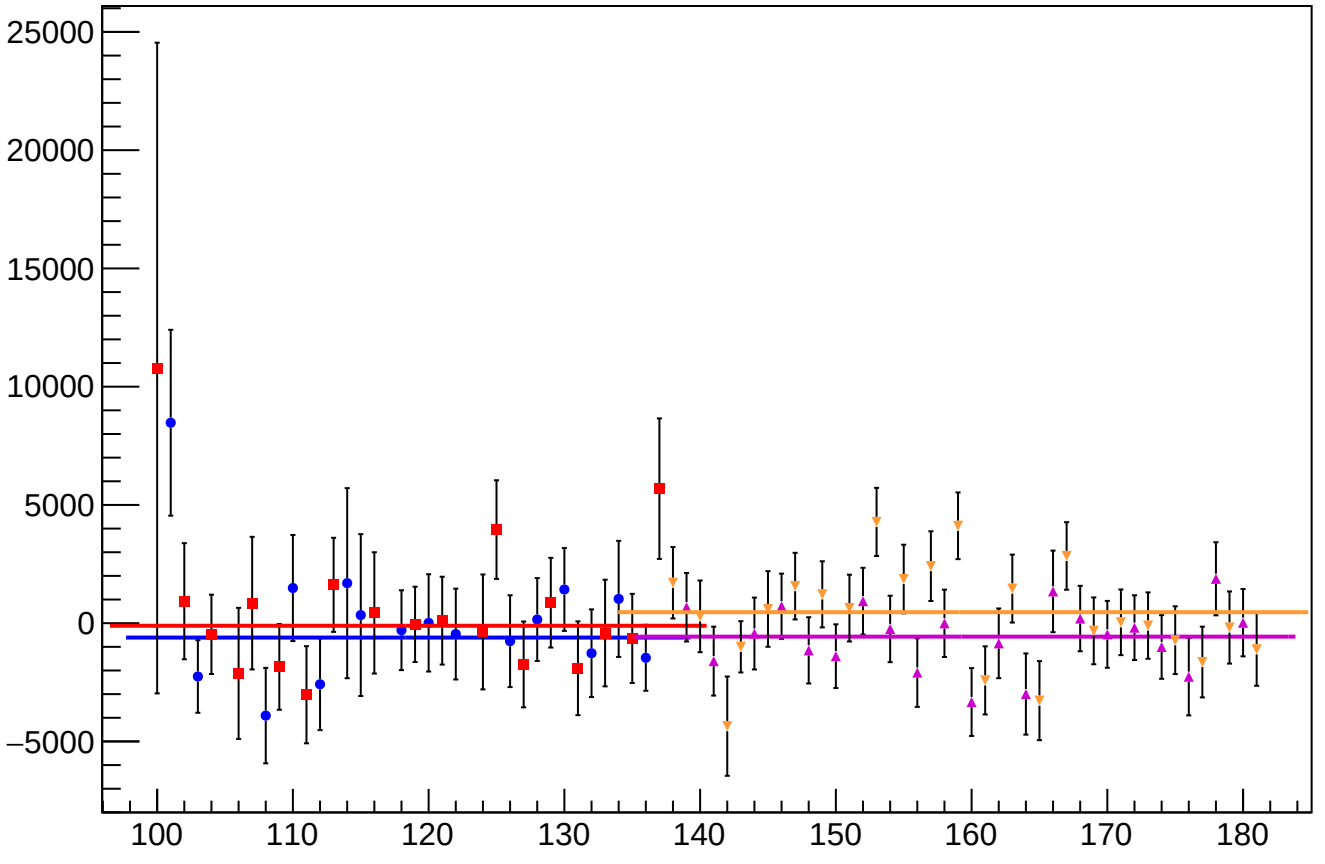
Left: 3900.839+/-0.483 $\chi^2$/NDF: 5231990.5/43

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3940.923+/-0.577 $\chi^2$/NDF:1948233.7/36

Out: 3467.355+/-0.510 $\chi^2$/NDF:4579402.4/41

All: 3675.087+/-0.382 $\chi^2$/NDF: 6906046.0/78




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 465.770+/-302.813 $\chi^2$/NDF:41.8/22

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -568.638+/-316.767 $\chi^2$/NDF:16.3/20

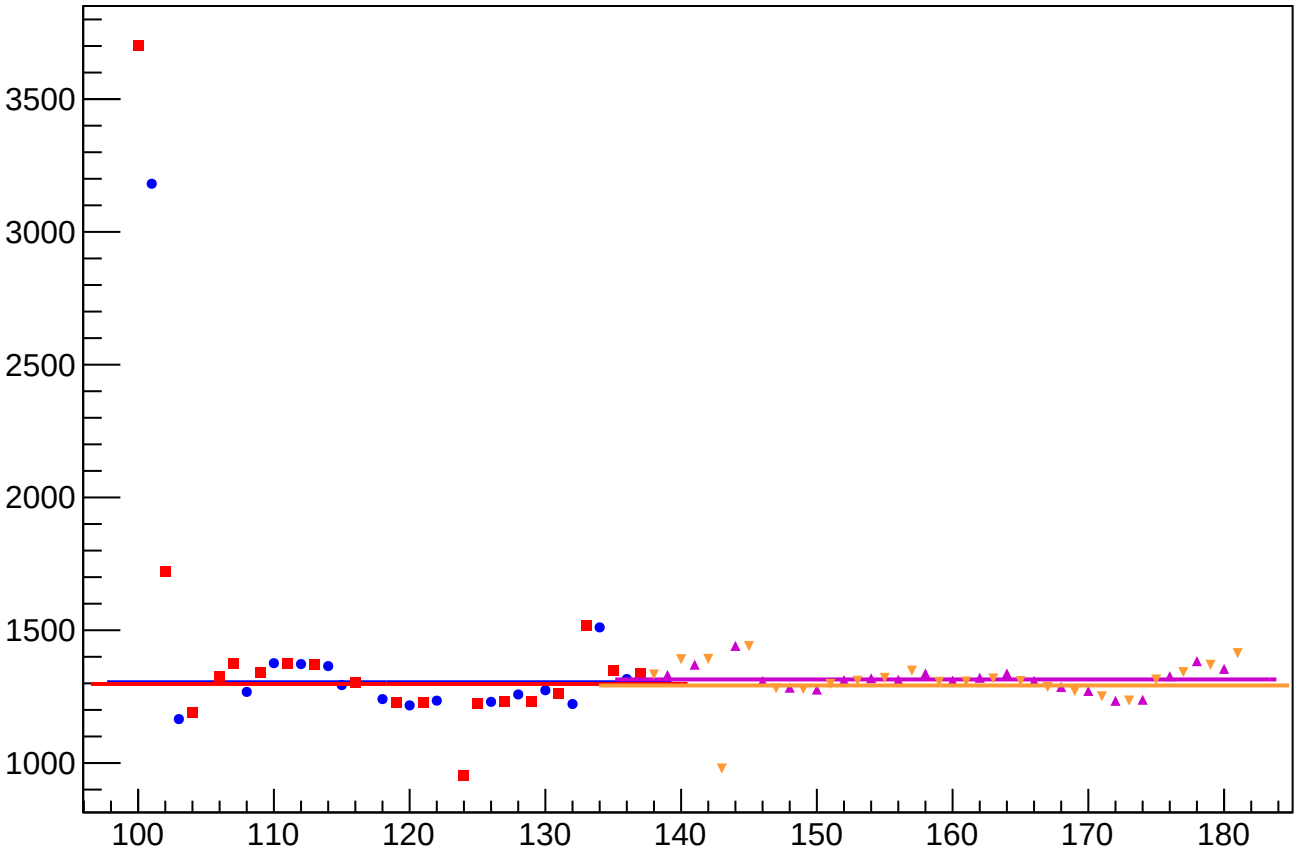
Left: -28.149+/-218.888 $\chi^2$/NDF: 63.7/43

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -580.052+/-266.684 $\chi^2$/NDF:30.4/36

Out: 304.929+/-256.941 $\chi^2$/NDF:57.7/41

All: -121.101+/-185.033 $\chi^2$/NDF: 93.9/78




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1292.099+/-0.214 $\chi^2$/NDF:229751.7/22

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1314.719+/-0.224 $\chi^2$/NDF:42300.5/20

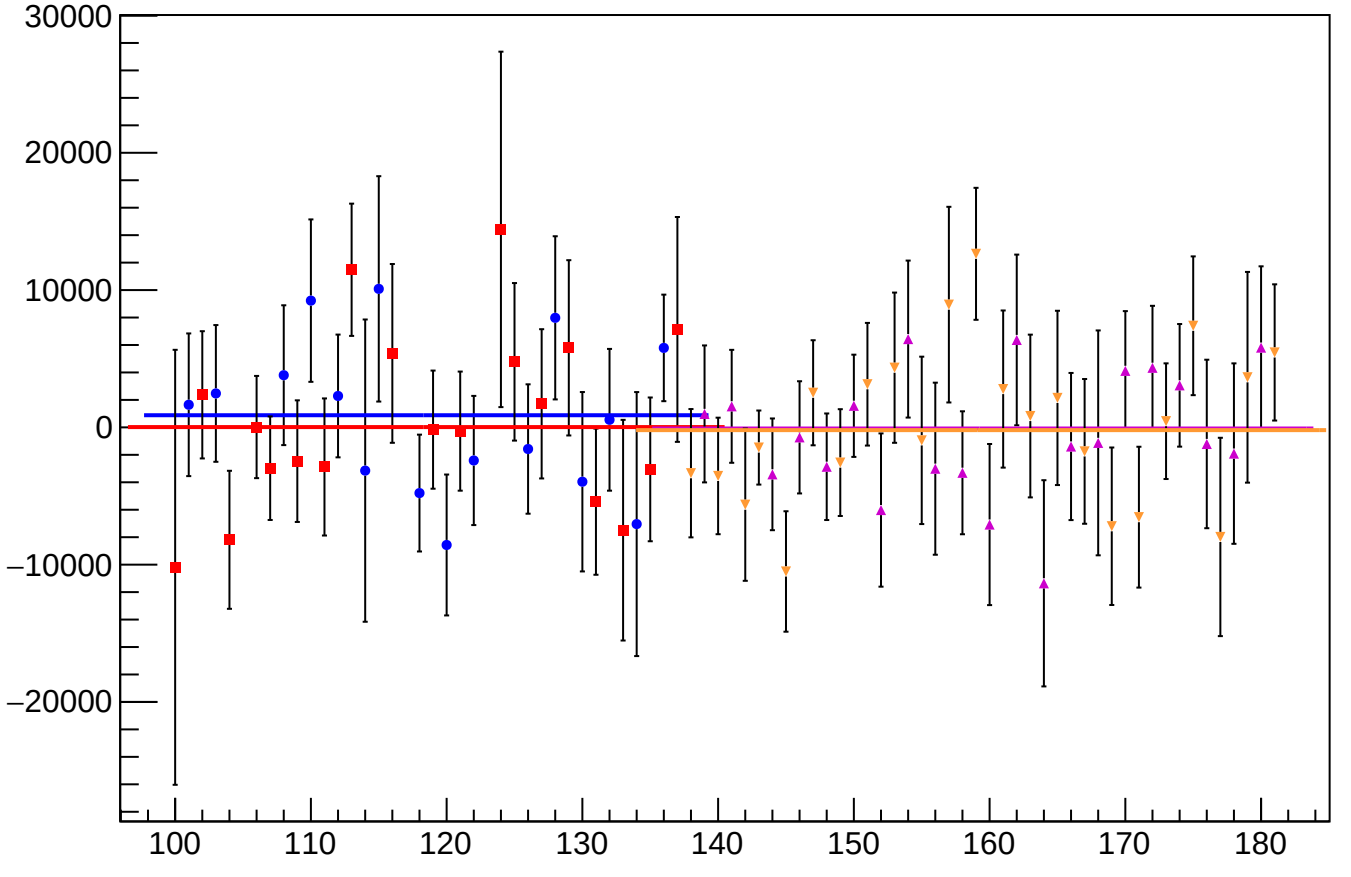
Left: 1302.900+/-0.155 $\chi^2$/NDF: 277380.8/43

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1311.627+/-0.189 $\chi^2$/NDF:553544.1/36

Out: 1293.696+/-0.182 $\chi^2$/NDF:443047.0/41

All: 1302.326+/-0.131 $\chi^2$/NDF: 1001281.0/78




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -201.438+/-1004.291 $\chi^2$/NDF:27.2/22

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -82.228+/-1085.423 $\chi^2$/NDF:13.1/20

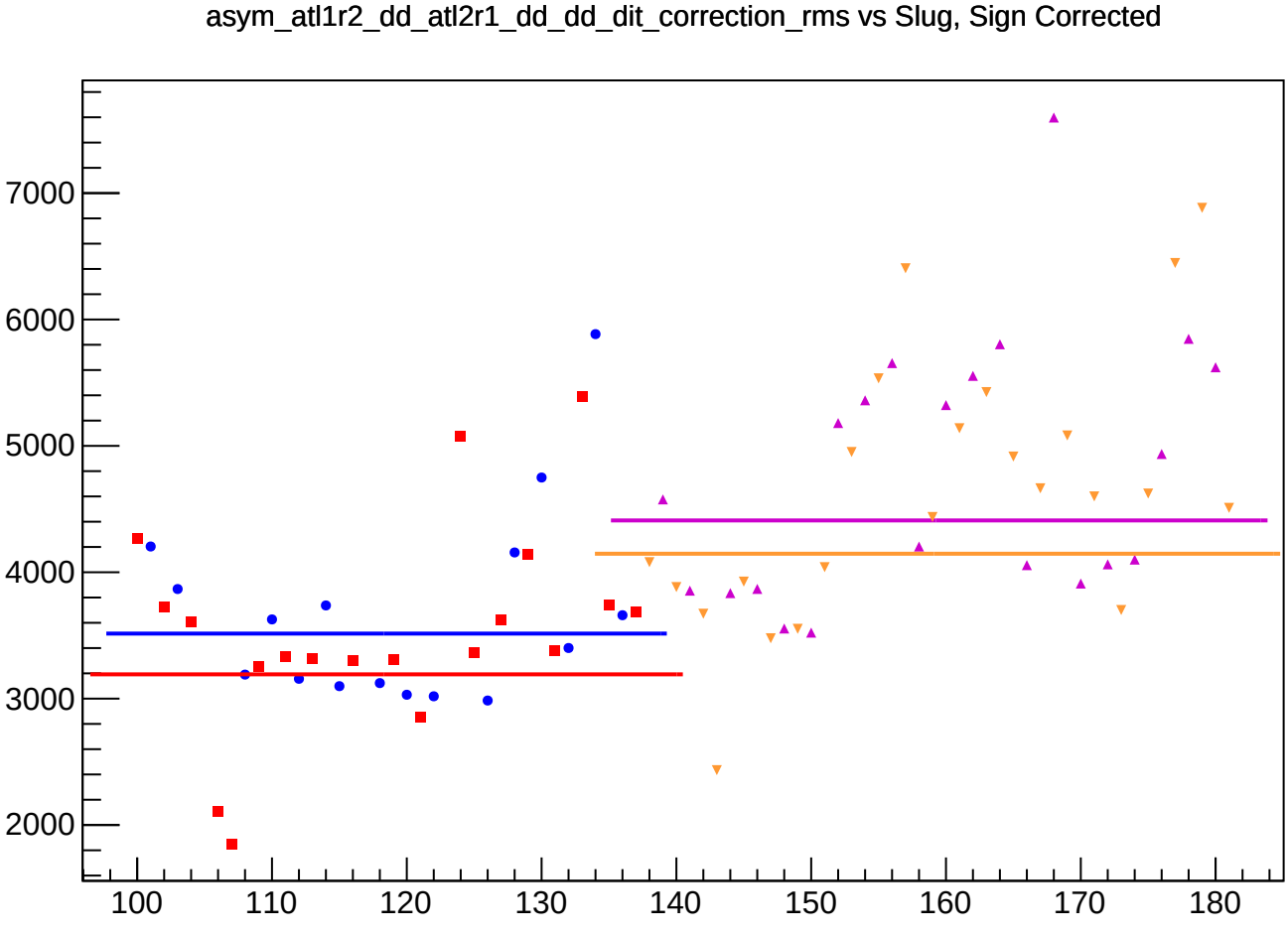
Left: -146.454+/-737.156 $\chi^2$/NDF: 40.3/43

Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 304.973+/-840.267 $\chi^2$/NDF:27.5/36

Out: -109.946+/-770.166 $\chi^2$/NDF:44.1/41

All: 79.486+/-567.757 $\chi^2$/NDF: 71.7/78




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 4146.558+/-0.710 $\chi^2$/NDF:2077011.7/22

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 4410.019+/-0.768 $\chi^2$/NDF:1239942.6/20

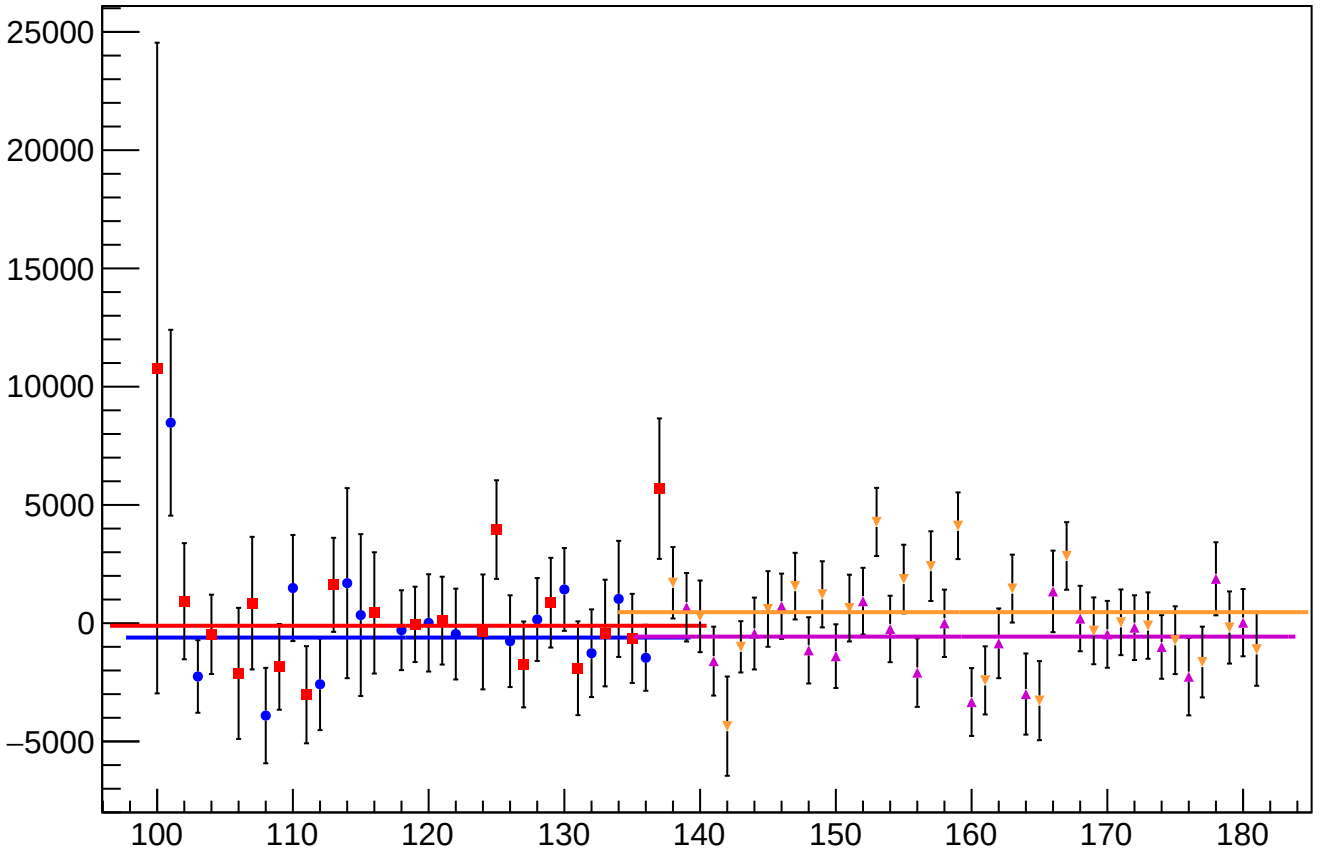
Left: 4268.075+/-0.521 $\chi^2$/NDF: 3380438.5/43

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 4051.273+/-0.594 $\chi^2$/NDF:2160245.0/36

Out: 3753.456+/-0.545 $\chi^2$/NDF:3593425.4/41

All: 3889.426+/-0.401 $\chi^2$/NDF: 5890207.7/78




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: 465.773+/-302.814 $\chi^2$/NDF:41.8/22

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -568.639+/-316.768 $\chi^2$/NDF:16.3/20

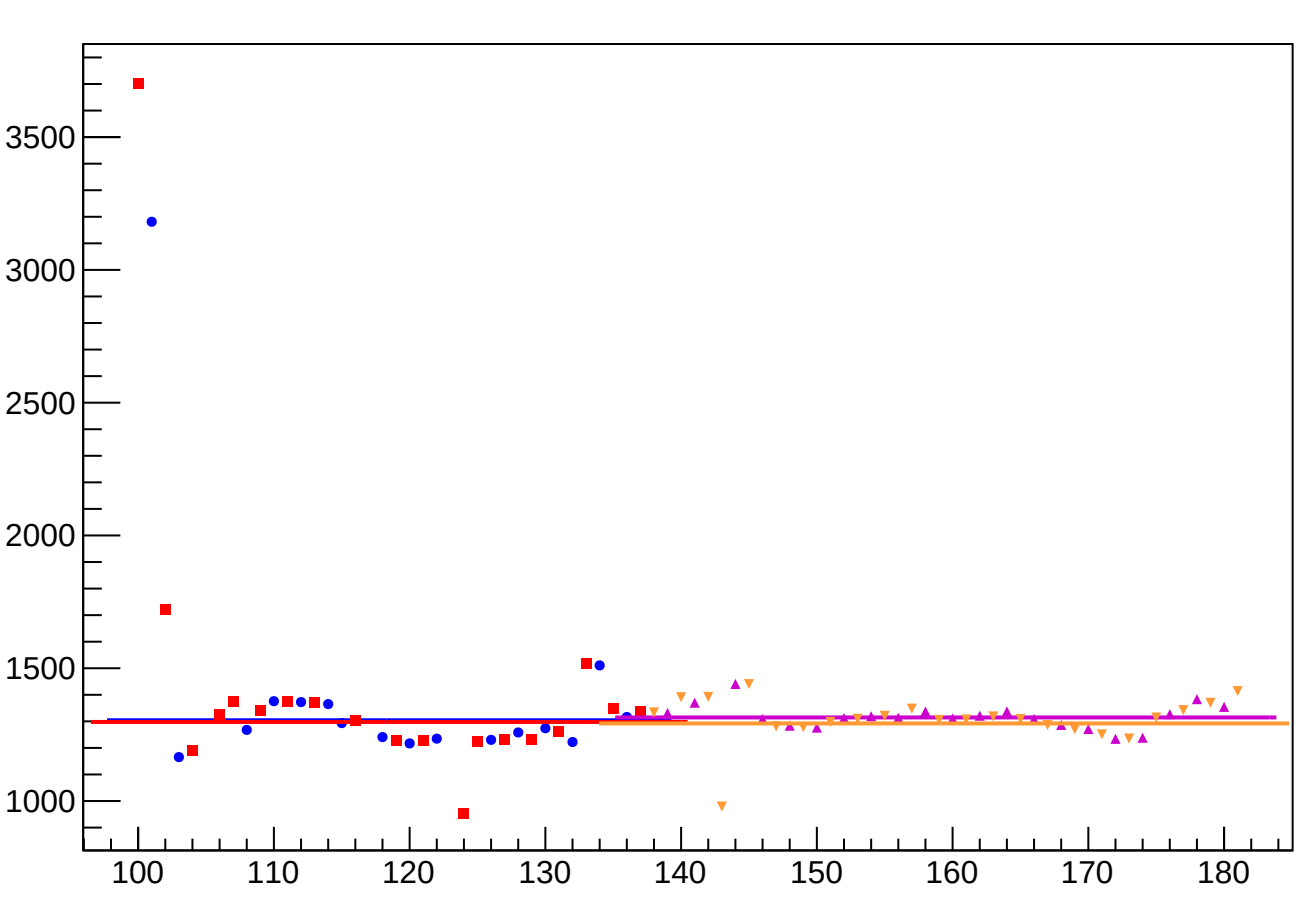
Left: -28.148+/-218.889 $\chi^2$/NDF: 63.7/43

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -580.053+/-266.684 $\chi^2$/NDF:30.4/36

Out: 304.929+/-256.942 $\chi^2$/NDF:57.7/41

All: -121.102+/-185.033 $\chi^2$/NDF: 93.9/78




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1292.100+/-0.214 $\chi^2$/NDF:229754.2/22

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1314.720+/-0.224 $\chi^2$/NDF:42302.6/20

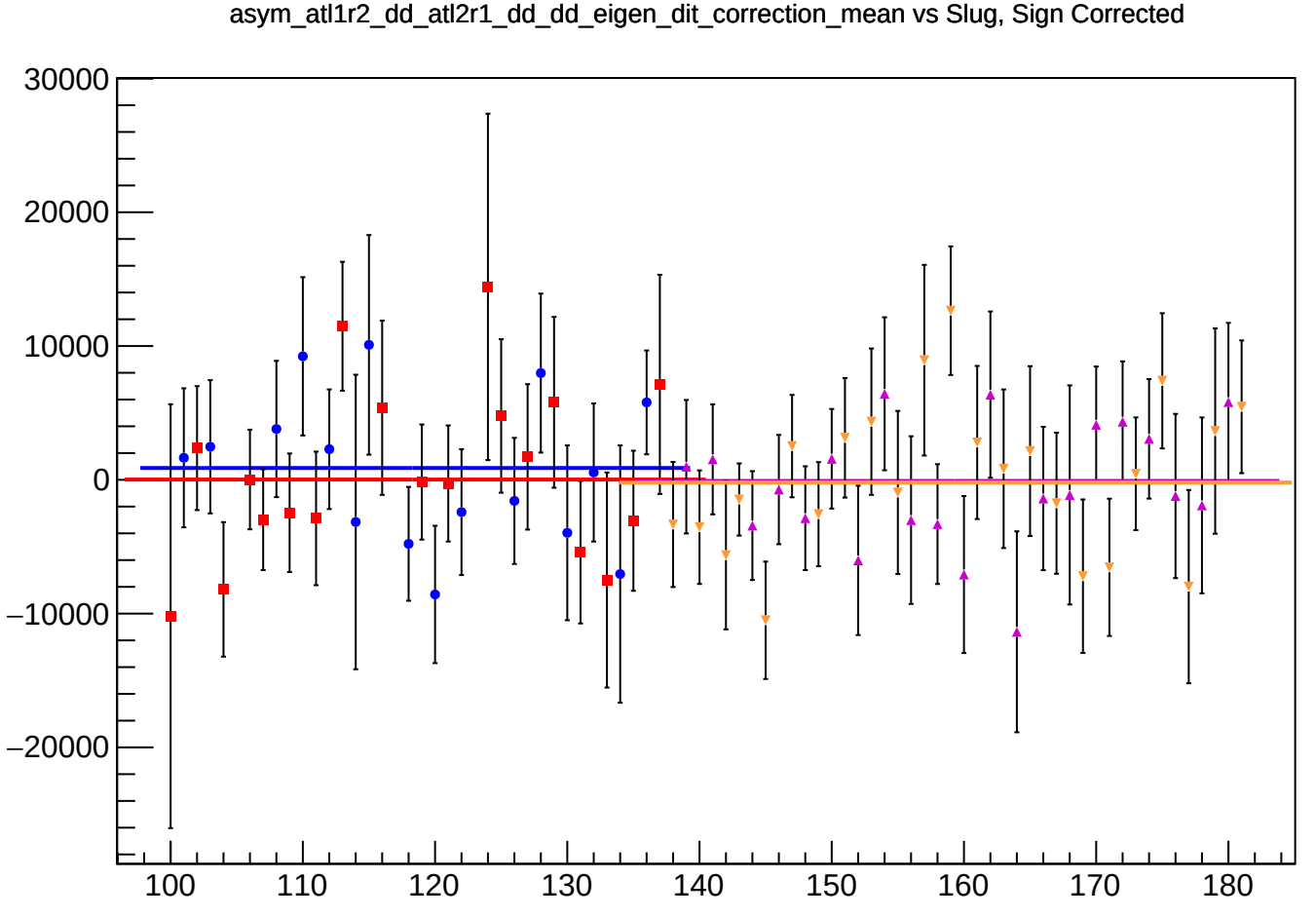
Left: 1302.901+/-0.155 $\chi^2$/NDF: 277385.5/43

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

In: 1311.628+/-0.189 $\chi^2$/NDF:553546.6/36

Out: 1293.697+/-0.182 $\chi^2$/NDF:443049.5/41

All: 1302.327+/-0.131 $\chi^2$/NDF: 1001286.0/78




Right In: 884.047+/-1327.396 $\chi^2$/NDF: 14.1/15

Left Out: -201.435+/-1004.293 $\chi^2$/NDF:27.2/22

Right Out: 20.677+/-1200.012 $\chi^2$/NDF: 16.8/18

Left In: -82.228+/-1085.424 $\chi^2$/NDF:13.1/20

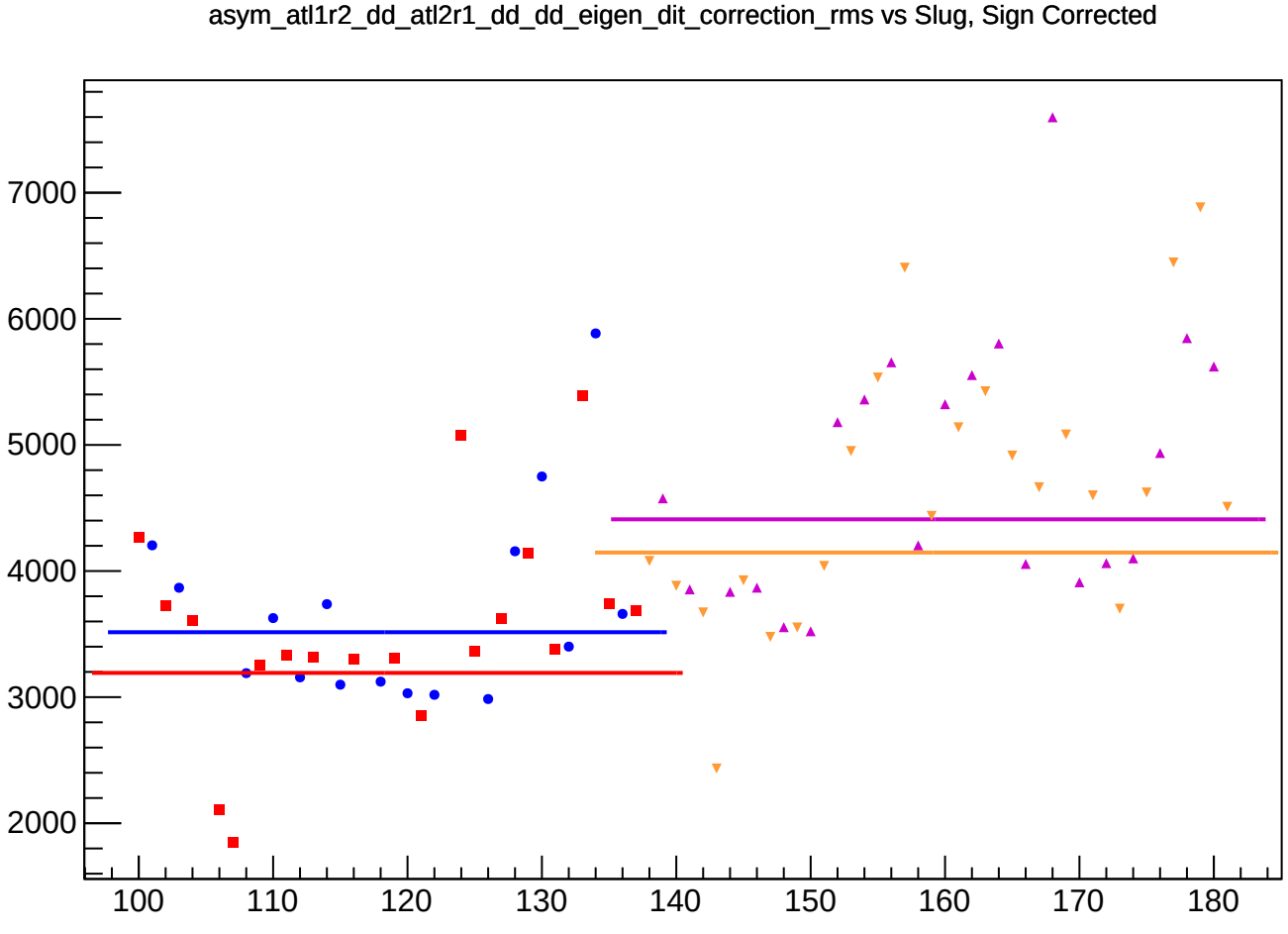
Left: -146.453+/-737.158 $\chi^2$/NDF: 40.3/43

Right: 408.958+/-890.174 $\chi^2$/NDF: 31.2/34

In: 304.971+/-840.267 $\chi^2$/NDF:27.5/36

Out: -109.946+/-770.166 $\chi^2$/NDF:44.1/41

All: 79.486+/-567.757 $\chi^2$/NDF: 71.7/78




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 4146.564+/-0.710 $\chi^2$/NDF:2077014.6/22

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 4410.026+/-0.768 $\chi^2$/NDF:1239946.7/20

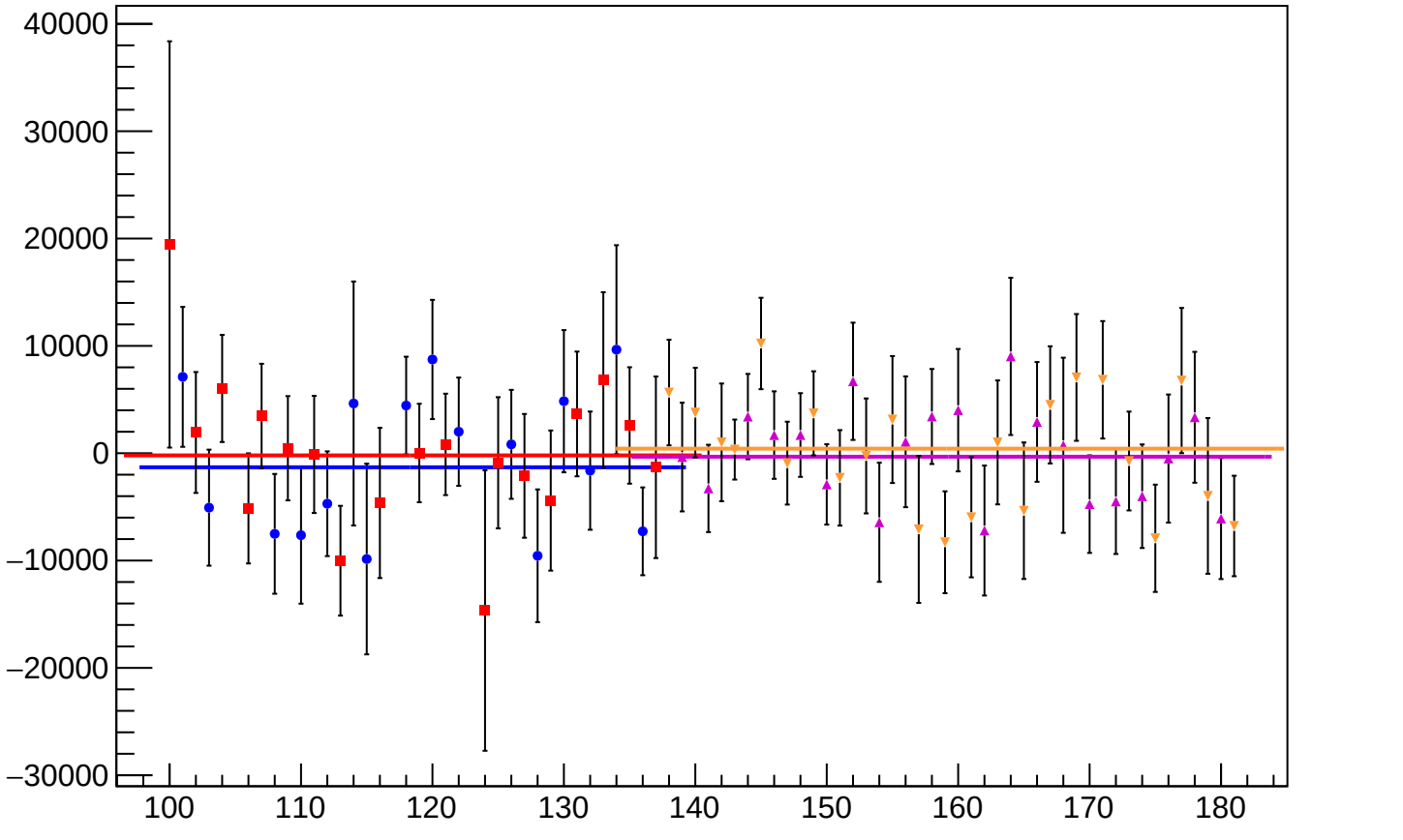
Left: 4268.082+/-0.521 $\chi^2$/NDF: 3380445.4/43

Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 4051.272+/-0.594 $\chi^2$/NDF:2160273.6/36

Out: 3753.455+/-0.545 $\chi^2$/NDF:3593453.8/41

All: 3889.424+/-0.401 $\chi^2$/NDF: 5890264.7/78




Right In: -1309.349+/-1431.624 $\chi^2$/NDF: 17.6/15

Left Out: 425.460+/-1008.552 $\chi^2$/NDF:24.9/22

Right Out: -201.593+/-1336.062 $\chi^2$/NDF: 11.6/18

Left In: -324.975+/-1086.468 $\chi^2$/NDF:13.5/20

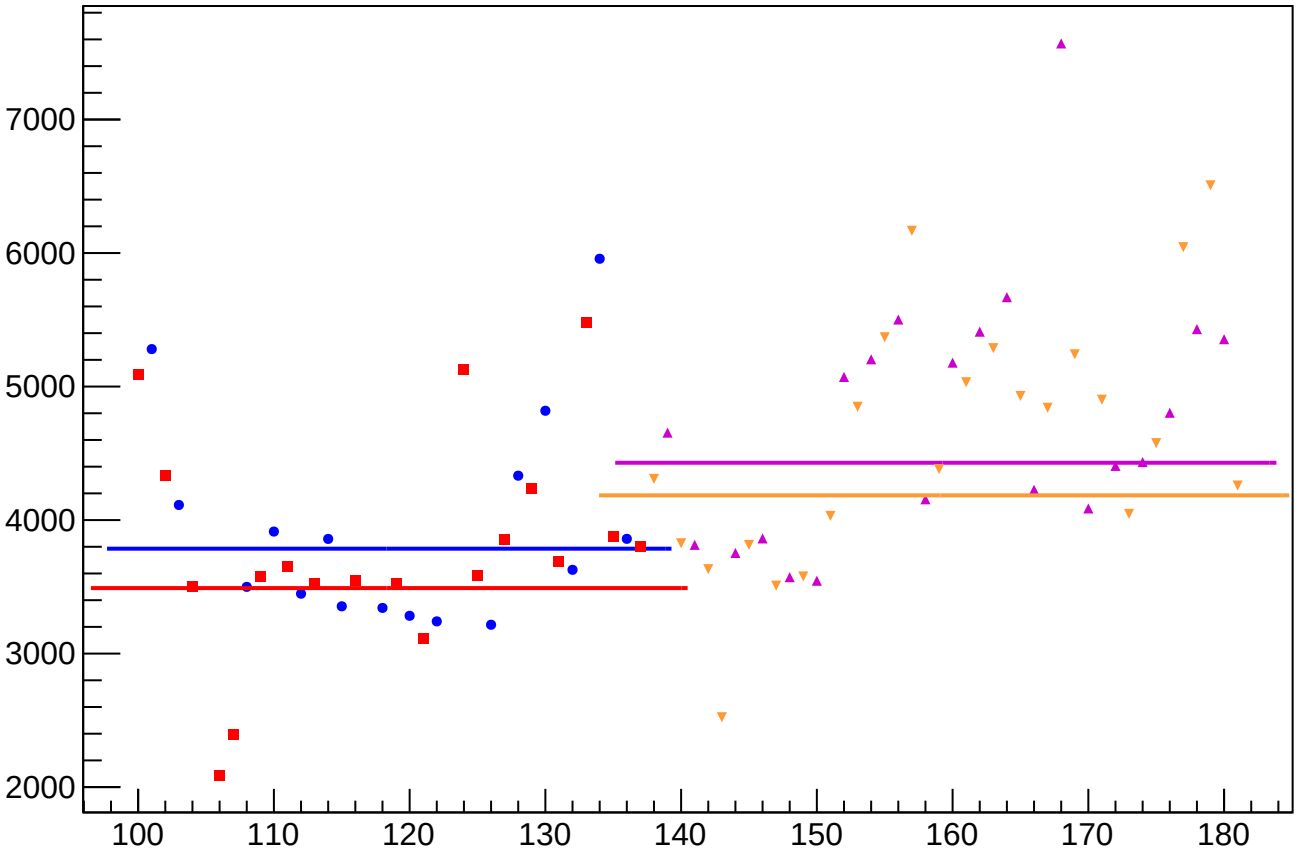
Left: 78.114+/-739.166 $\chi^2$/NDF: 38.7/43

Right: -717.269+/-976.776 $\chi^2$/NDF: 29.5/34

In: -684.722+/-865.461 $\chi^2$/NDF:31.4/36

Out: 197.848+/-804.957 $\chi^2$/NDF:36.7/41

All: -211.511+/-589.420 $\chi^2$/NDF: 68.7/78




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 4185.197+/-0.713 $\chi^2$/NDF:1796091.9/22

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 4429.354+/-0.768 $\chi^2$/NDF:1060790.8/20

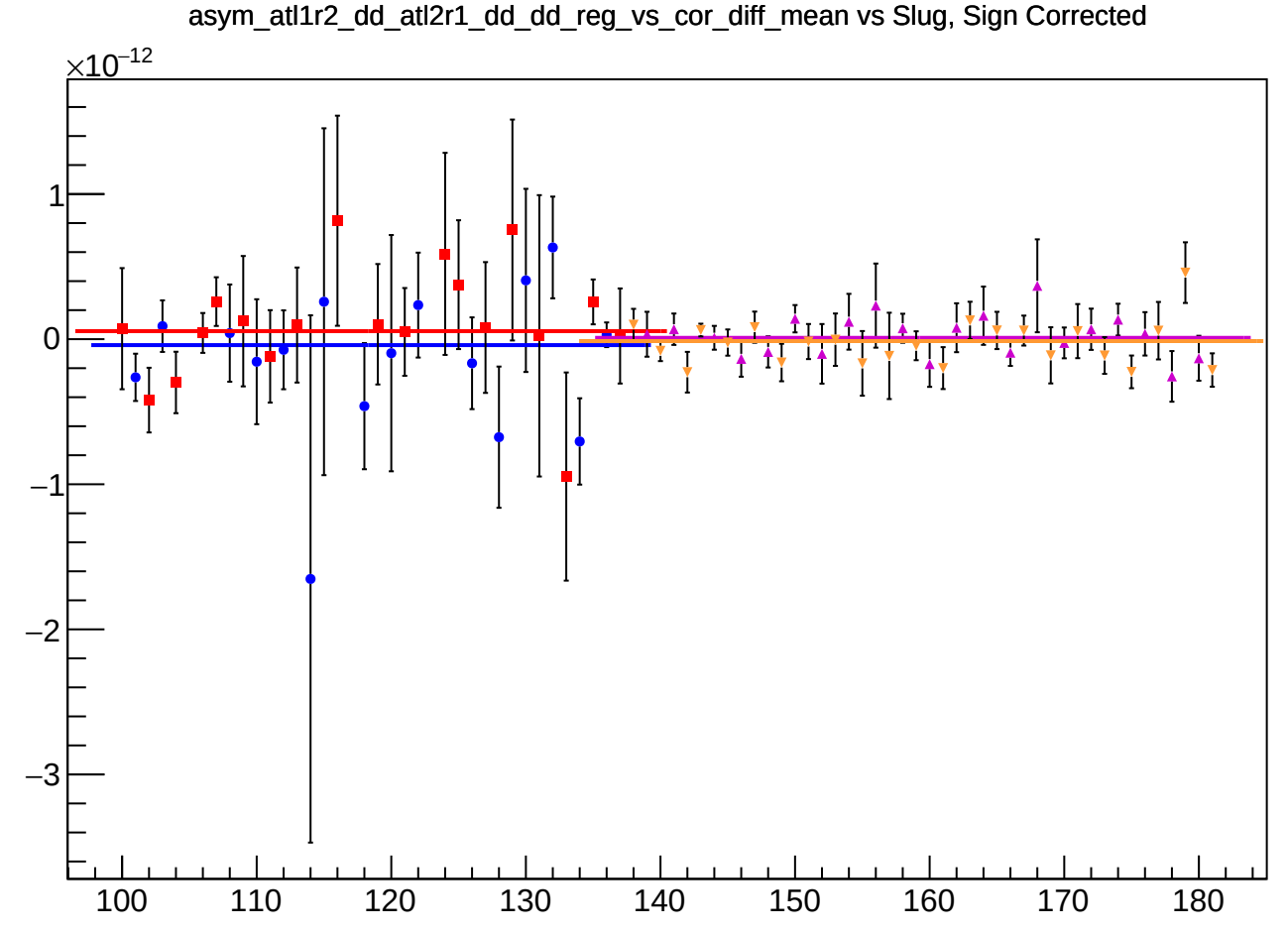
Left: 4298.207+/-0.523 $\chi^2$/NDF: 2911135.4/43

Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 4194.150+/-0.612 $\chi^2$/NDF:1700257.4/36

Out: 3928.646+/-0.566 $\chi^2$/NDF:2733179.7/41

All: 4051.131+/-0.416 $\chi^2$/NDF: 4534829.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.5/20

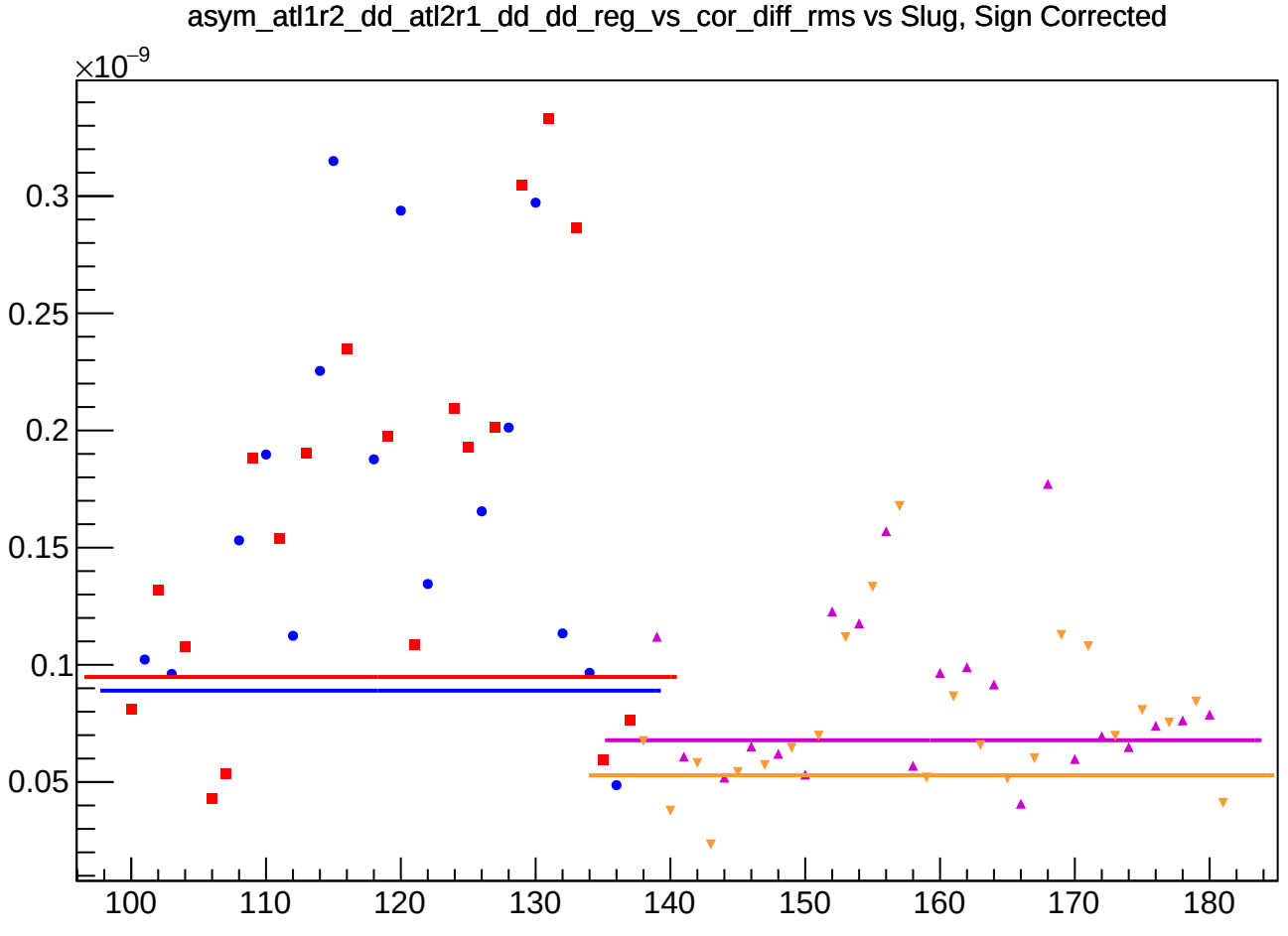
Left: -0.000+/-0.000 $\chi^2$/NDF: 42.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:32.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:43.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 76.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2614098.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1395768.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4353207.3/43

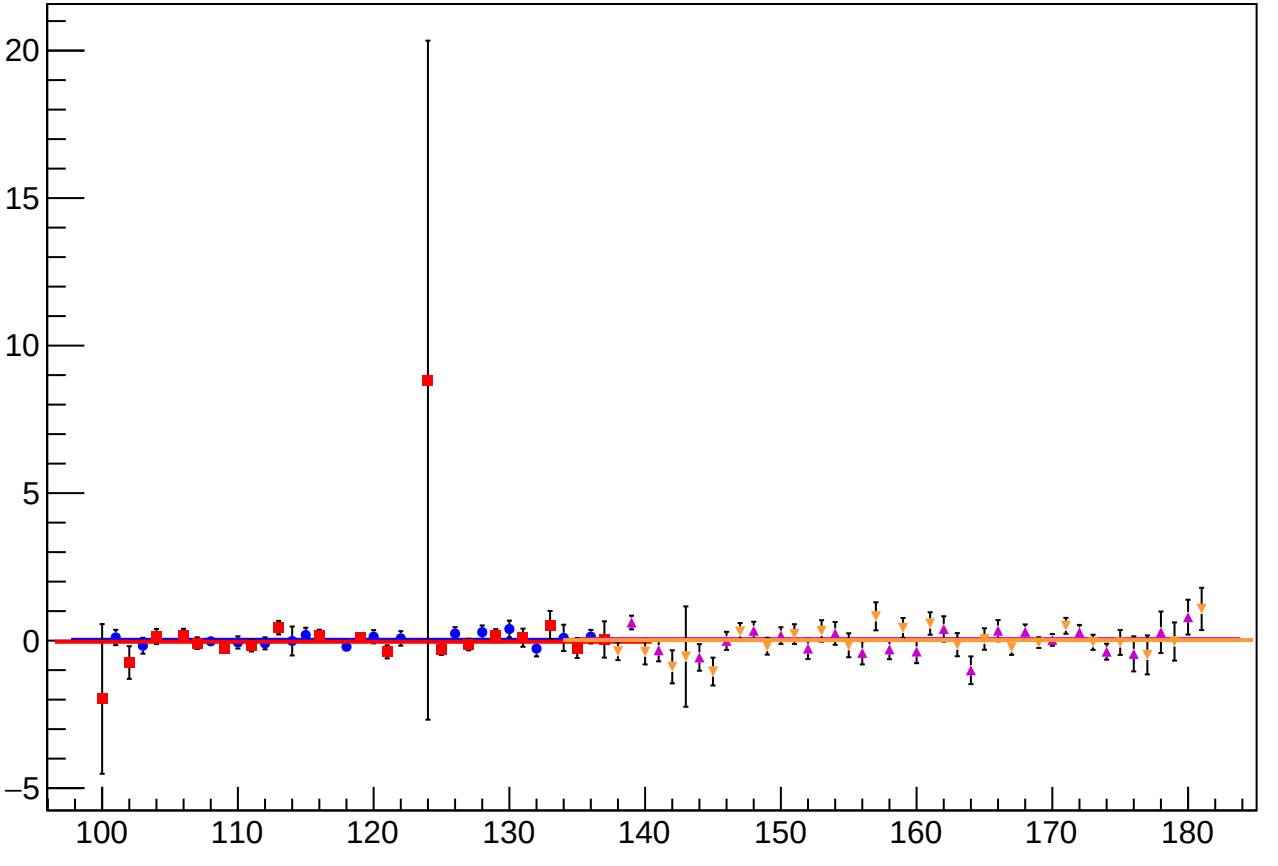
Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:3066247.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5111328.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8541239.8/78

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

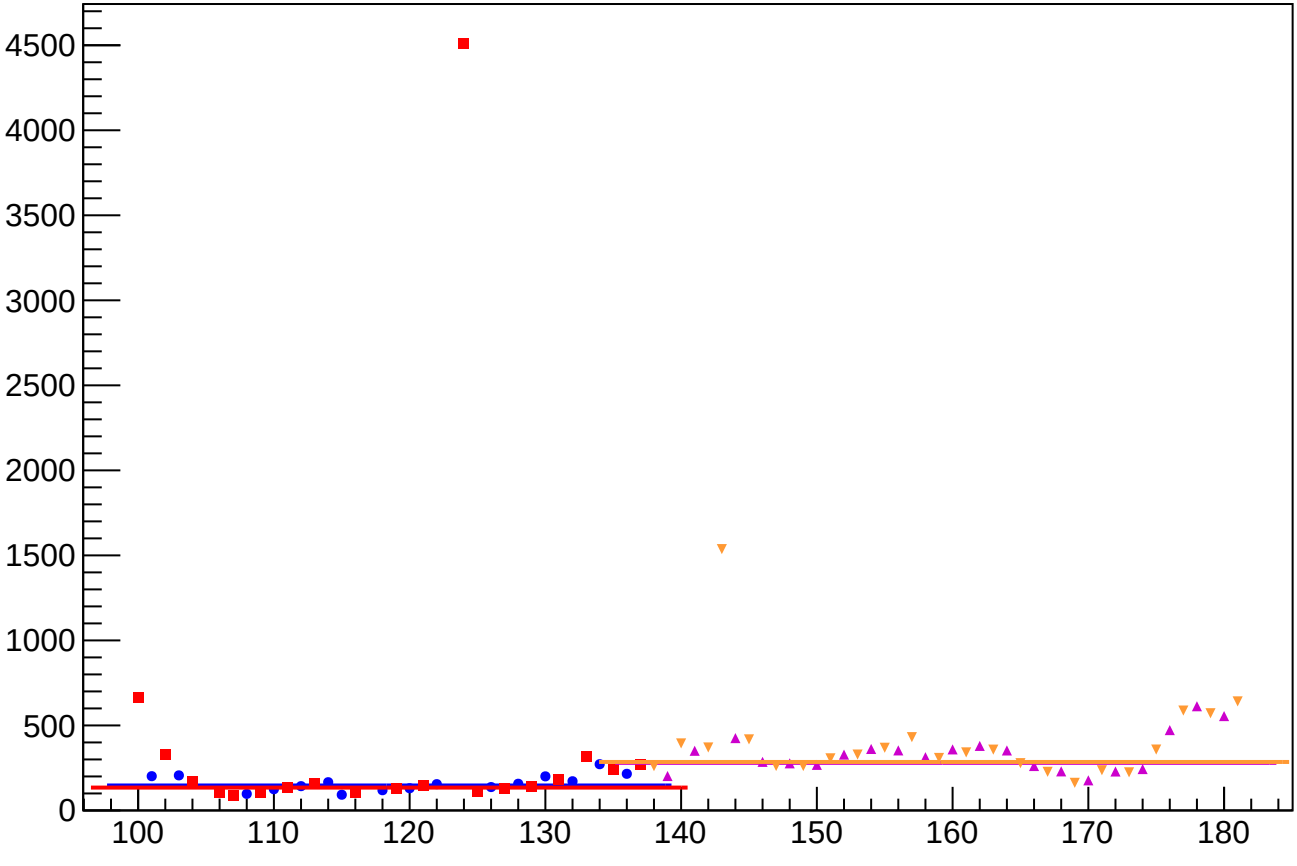
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442266.0/22

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 279.868+/-0.050 $\chi^2$/NDF:2781571.7/20

Left: 282.499+/-0.036 $\chi^2$/NDF: 7229341.0/43

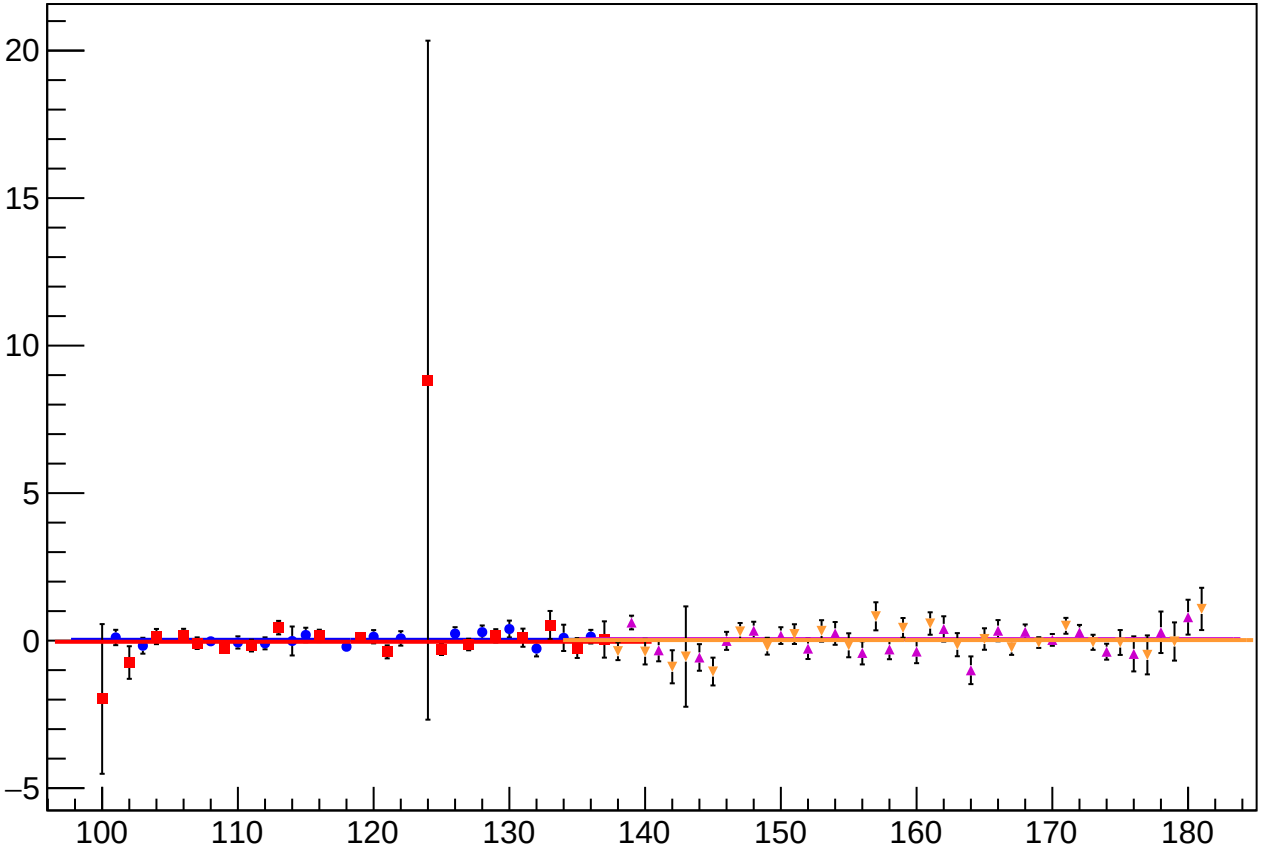
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985407.1/36

Out: 189.624+/-0.031 $\chi^2$/NDF:11584381.2/41

All: 194.399+/-0.022 $\chi^2$/NDF: 19619100.6/78

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

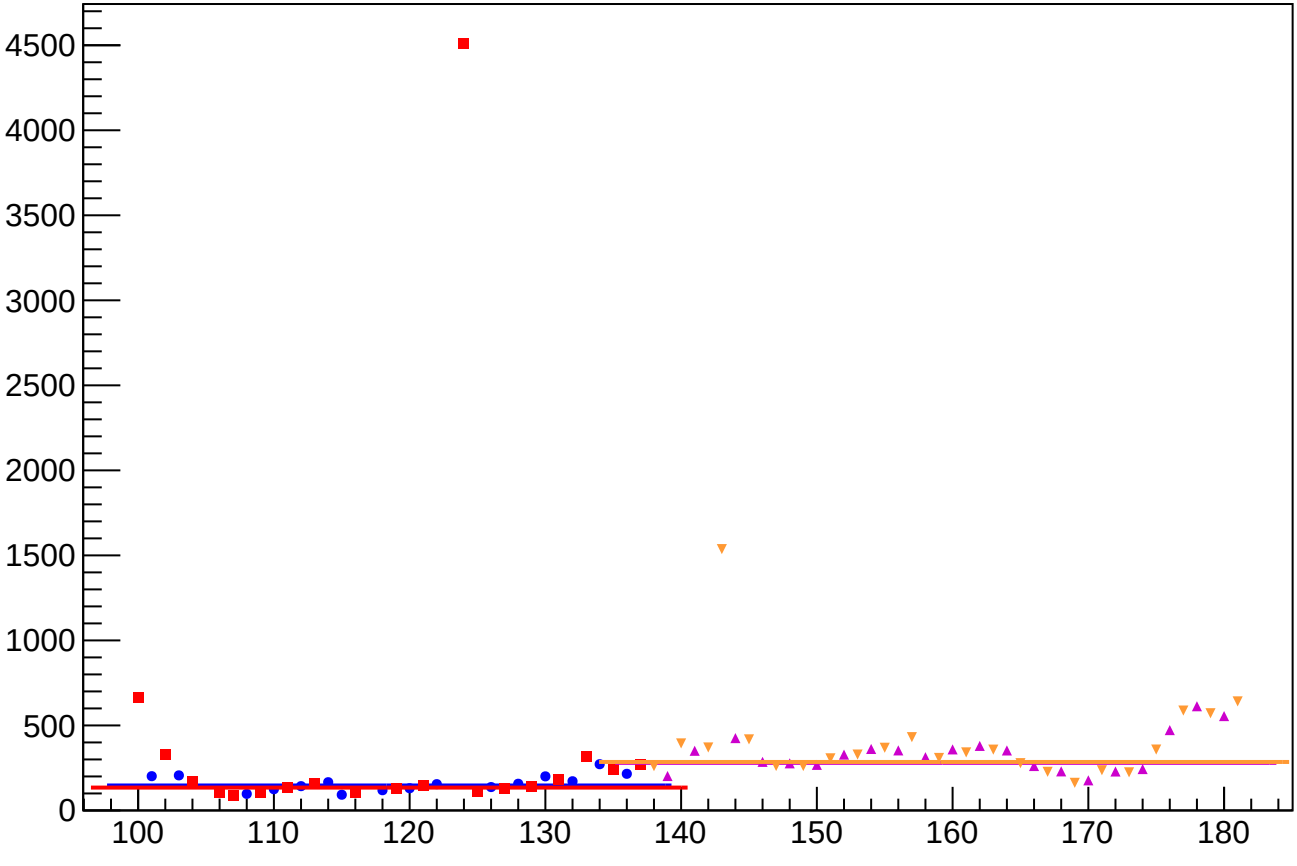
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442266.0/22

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 279.868+/-0.050 $\chi^2$/NDF:2781571.7/20

Left: 282.499+/-0.036 $\chi^2$/NDF: 7229341.0/43

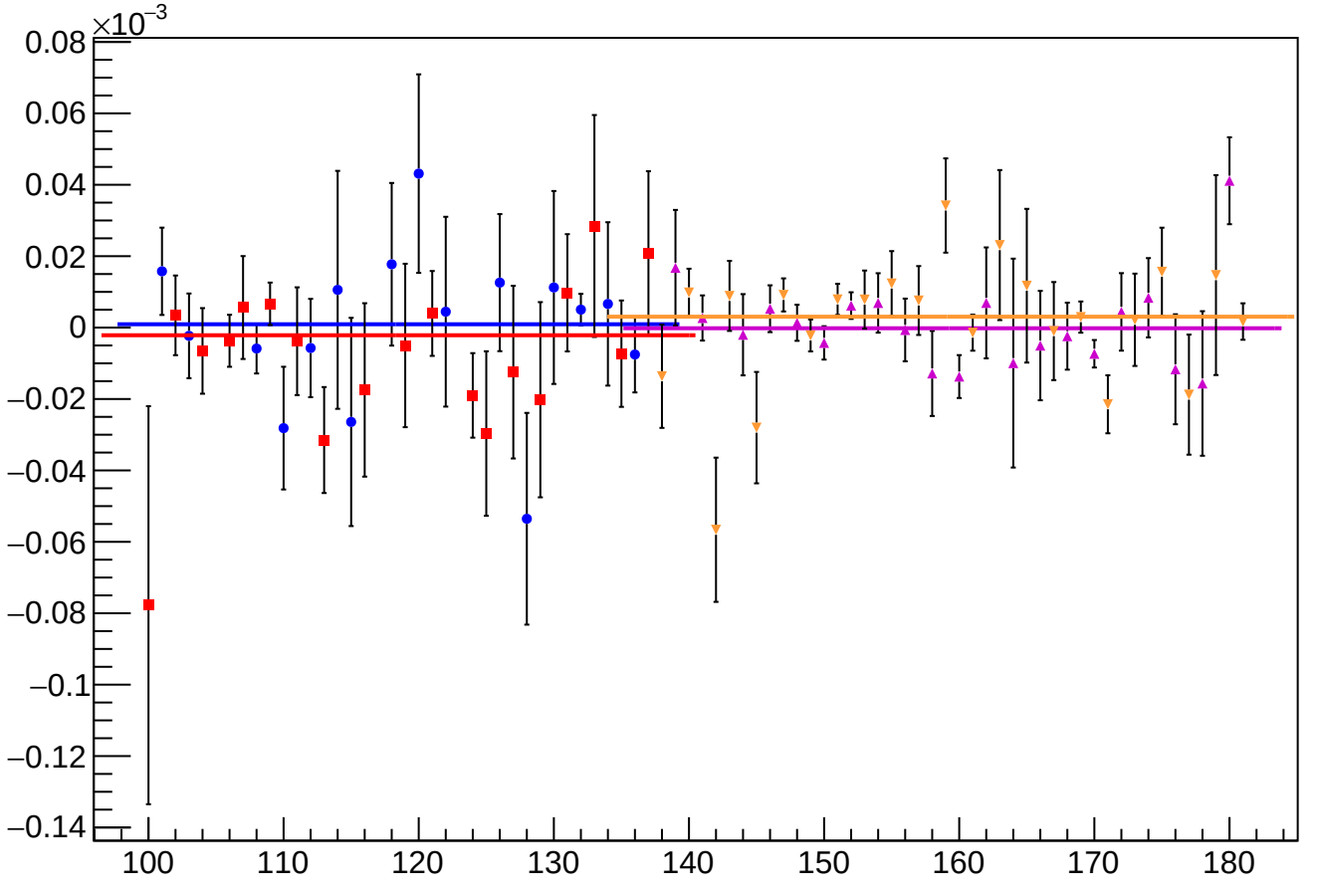
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985407.1/36

Out: 189.624+/-0.031 $\chi^2$/NDF:11584381.2/41

All: 194.399+/-0.022 $\chi^2$/NDF: 19619100.6/78

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:41.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:30.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 73.1/43

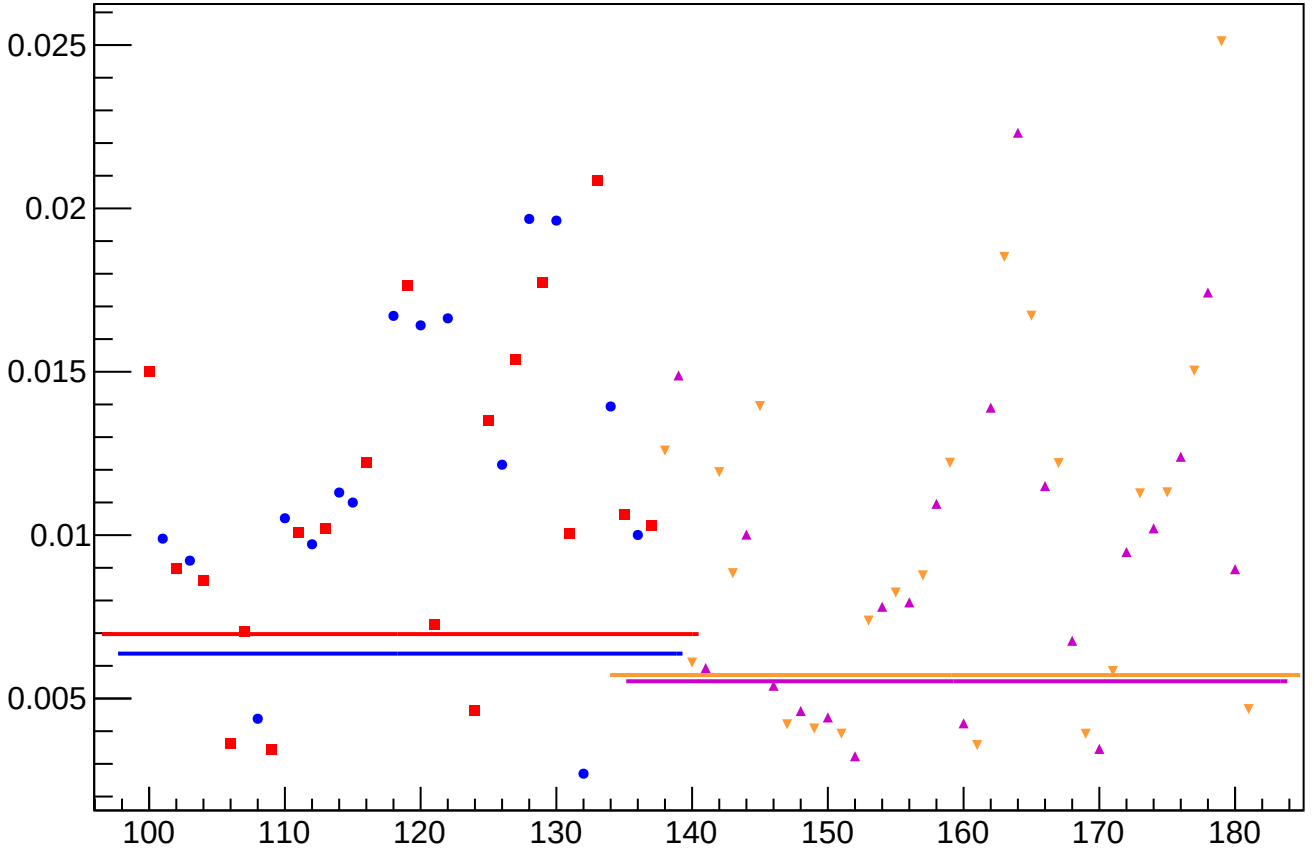
Right: -0.000+/-0.000 $\chi^2$/NDF: 31.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:45.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:59.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 105.3/78

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:7997784.9/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:6756812.9/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 14769249.6/43

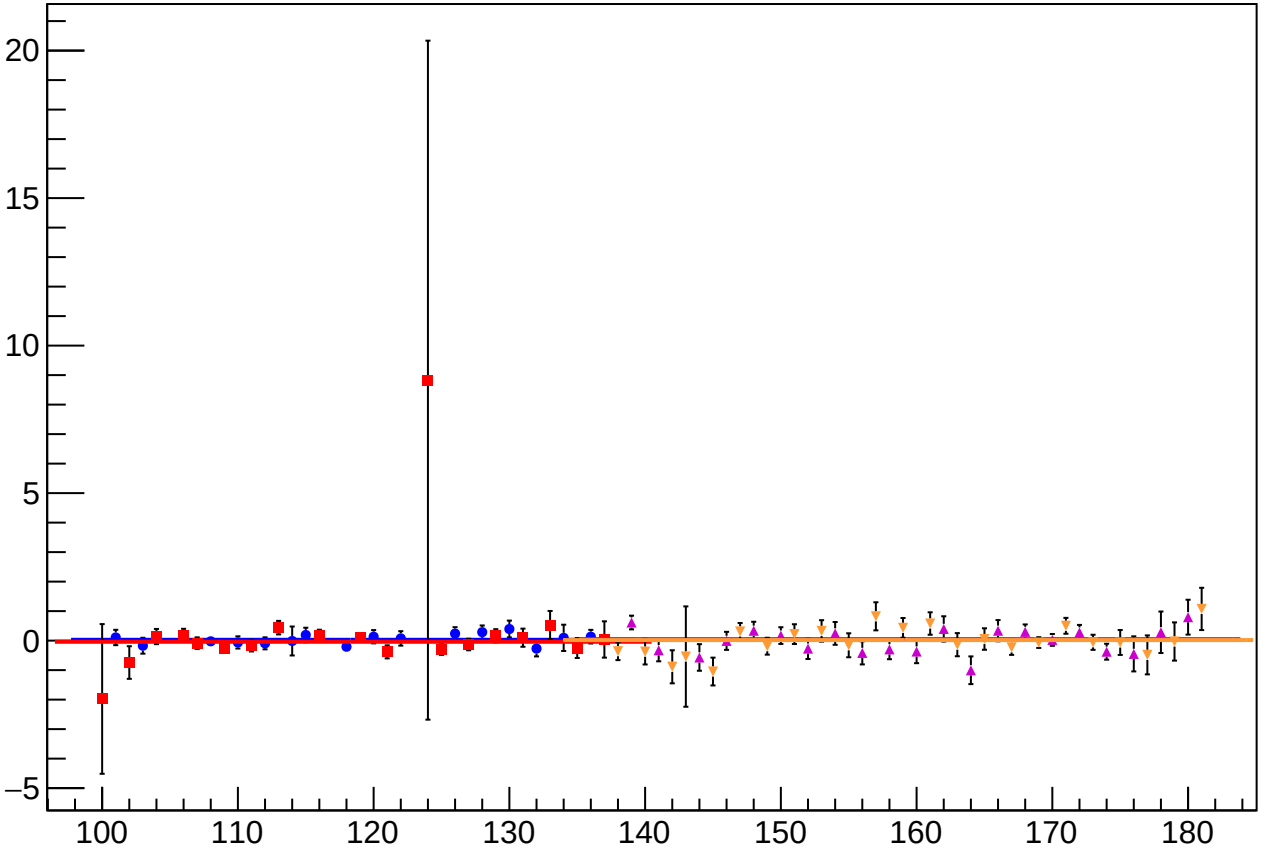
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.006+/-0.000 $\chi^2$/NDF:11525805.5/36

Out: 0.006+/-0.000 $\chi^2$/NDF:11680246.7/41

All: 0.006+/-0.000 $\chi^2$/NDF: 23242029.5/78

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

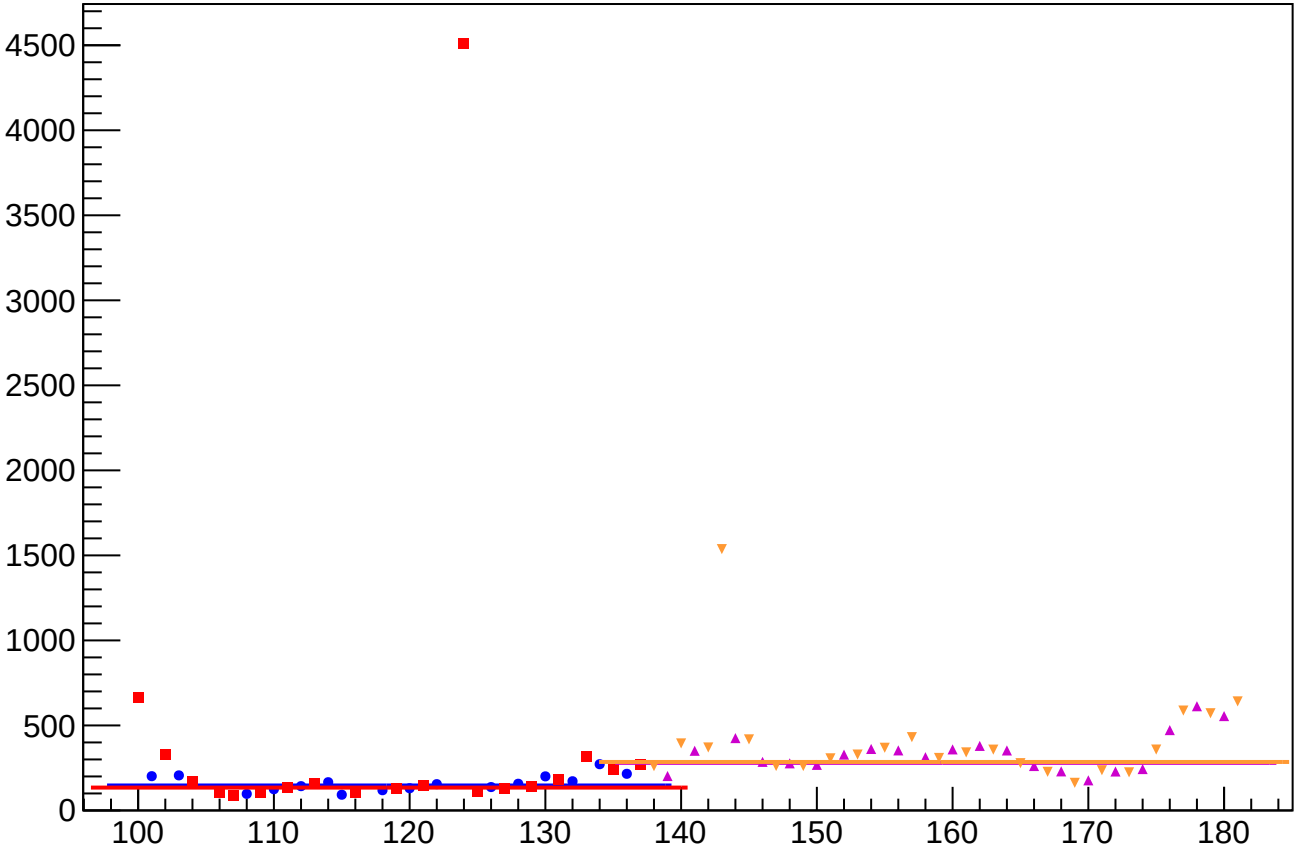
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442450.0/22

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 279.870+/-0.050 $\chi^2$/NDF:2781676.9/20

Left: 282.500+/-0.036 $\chi^2$/NDF: 7229627.2/43

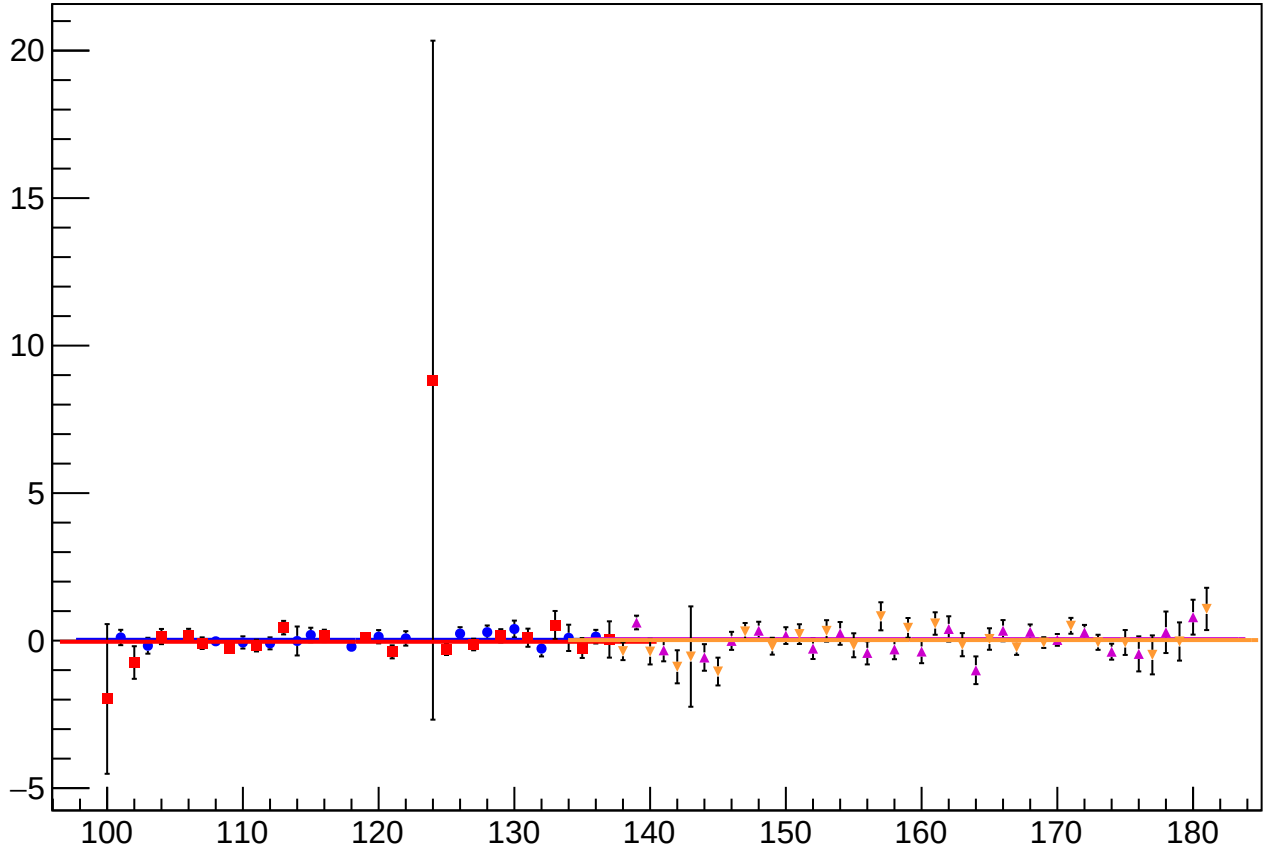
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985522.4/36

Out: 189.625+/-0.031 $\chi^2$/NDF:11584355.6/41

All: 194.400+/-0.022 $\chi^2$/NDF: 19619178.9/78

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: 0.018+/-0.072 $\chi^2$/NDF:27.0/22

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.051+/-0.071 $\chi^2$/NDF:27.6/20

Left: 0.035+/-0.051 $\chi^2$/NDF: 54.7/43

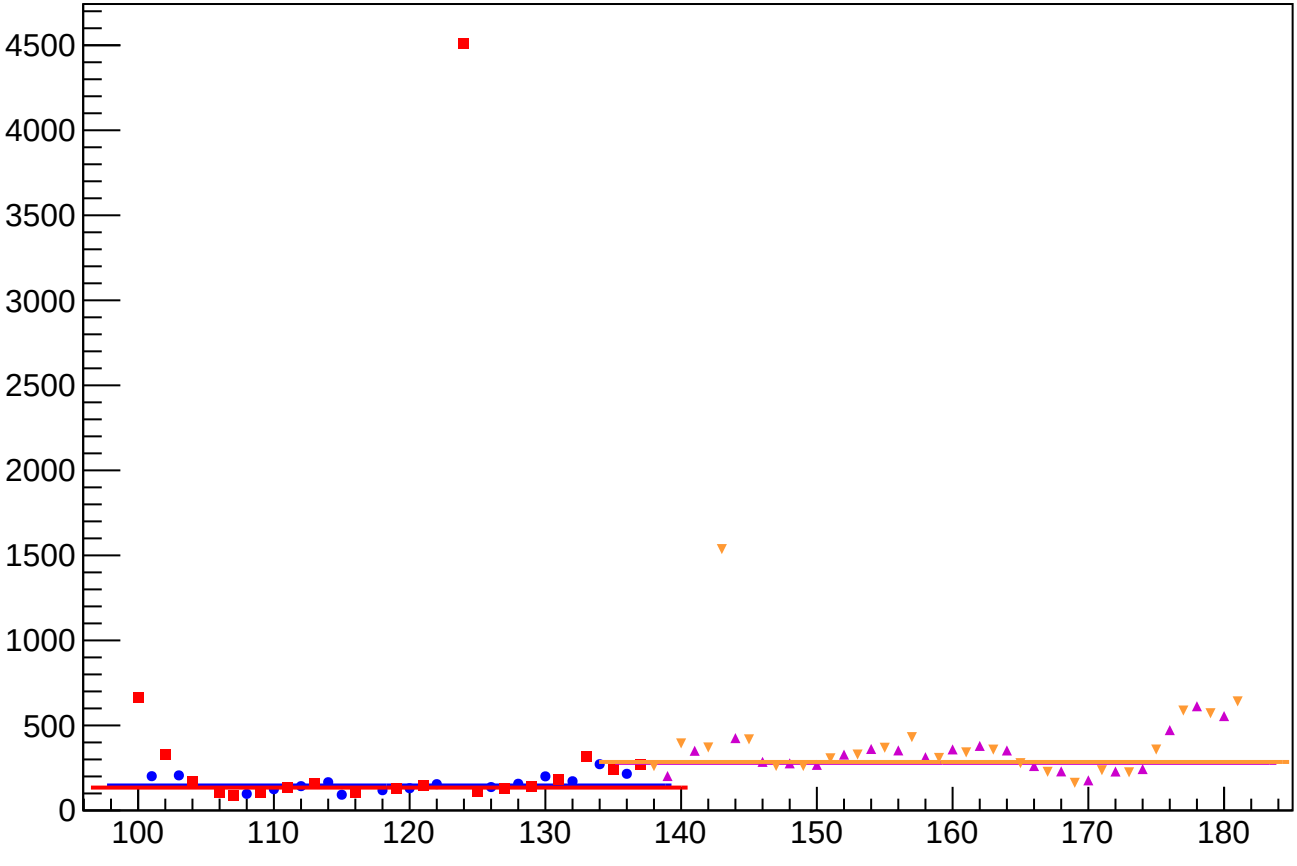
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.037+/-0.045 $\chi^2$/NDF:37.1/36

Out: -0.018+/-0.044 $\chi^2$/NDF:47.4/41

All: 0.009+/-0.031 $\chi^2$/NDF: 85.3/78

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998646.8/15

Left Out: 285.190+/-0.051 $\chi^2$/NDF:4442450.0/22

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 279.870+/-0.050 $\chi^2$/NDF:2781676.9/20

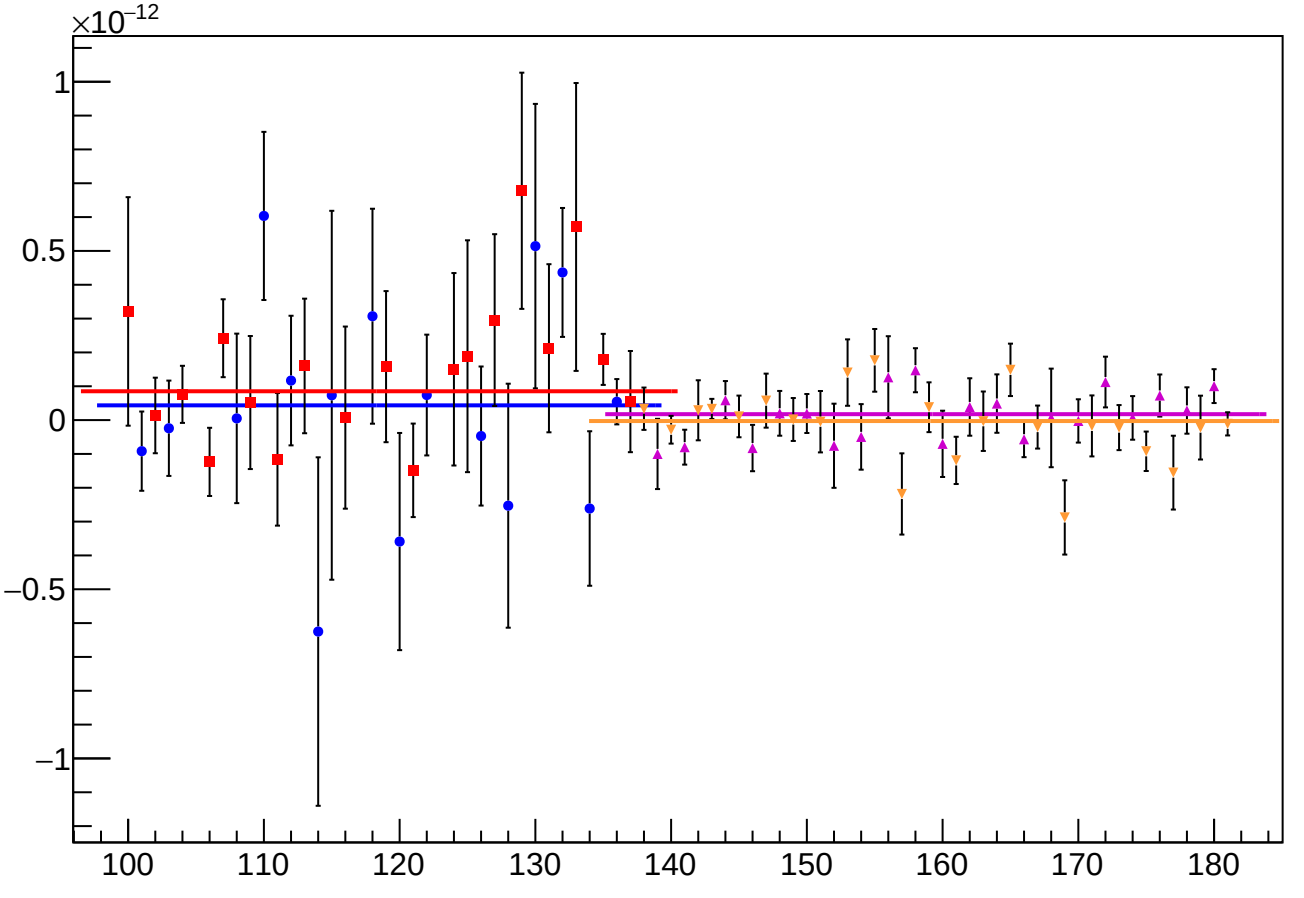
Left: 282.500+/-0.036 $\chi^2$/NDF: 7229627.2/43

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 199.450+/-0.032 $\chi^2$/NDF:7985522.4/36

Out: 189.625+/-0.031 $\chi^2$/NDF:11584355.6/41

All: 194.400+/-0.022 $\chi^2$/NDF: 19619178.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:30.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.6/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 52.9/43

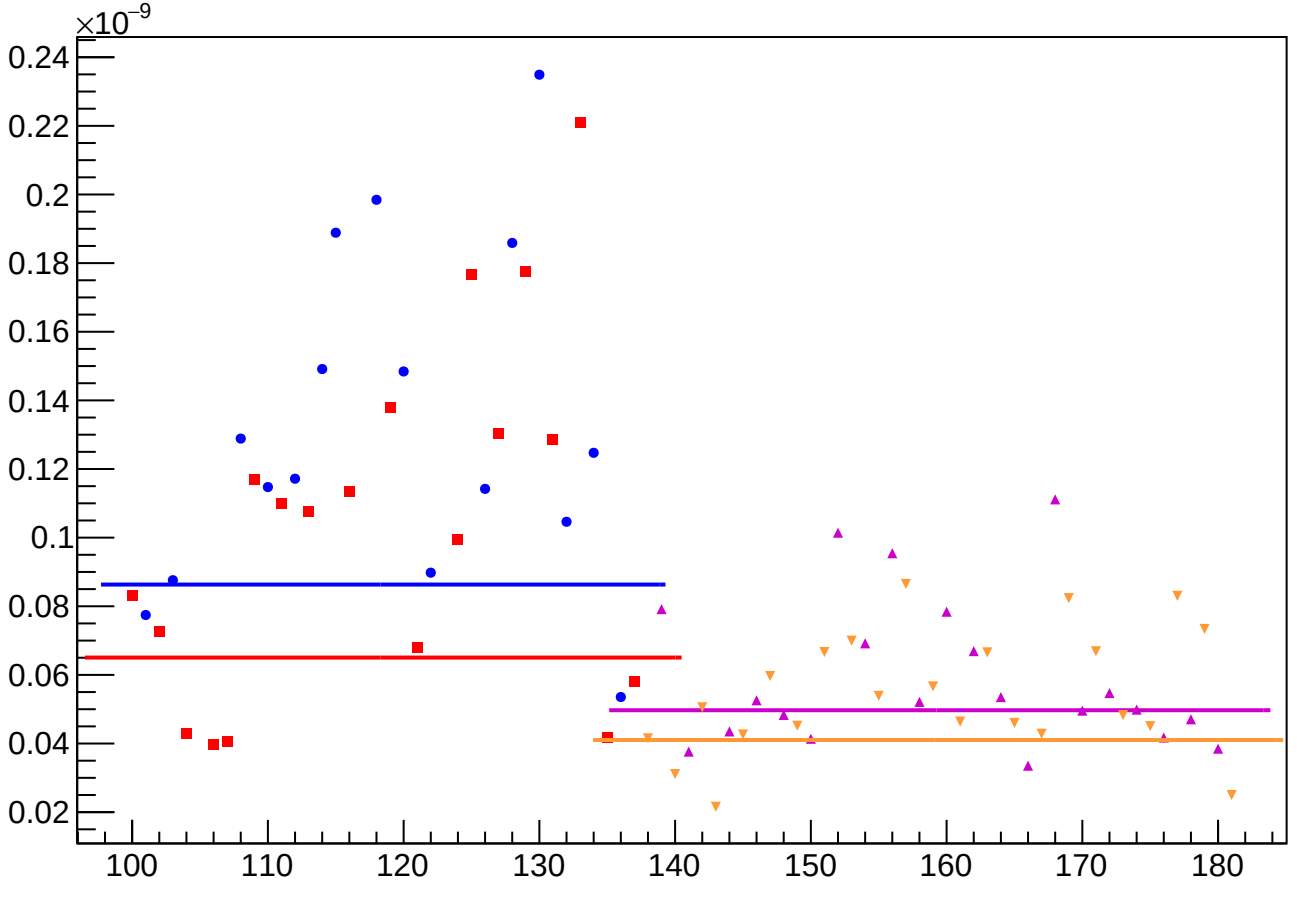
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:40.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:54.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 95.6/78

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1565662.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3512442.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2158861.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1999591.8/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 5887861.0/43

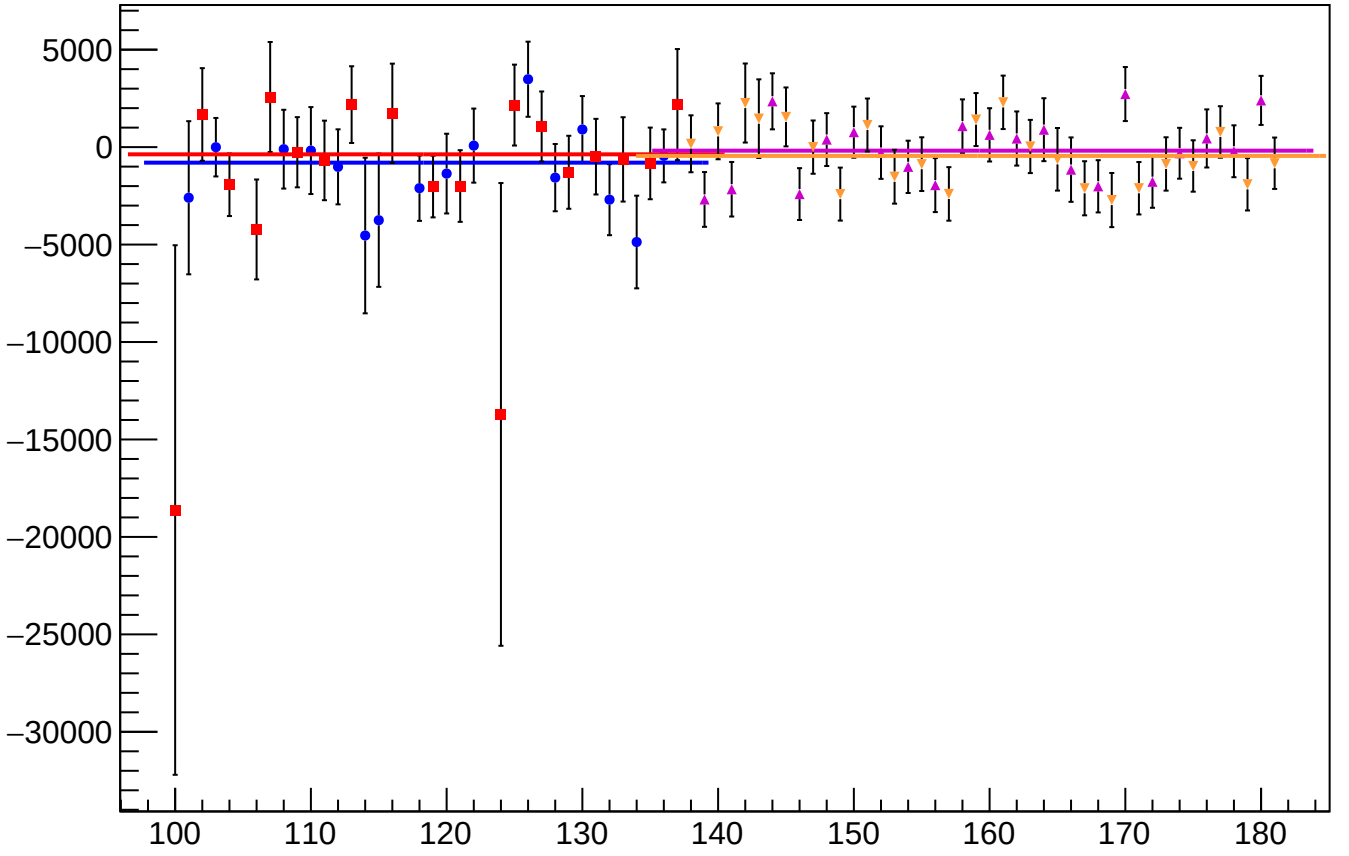
Right: 0.000+/-0.000 $\chi^2$/NDF: 4026528.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:4868574.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6532358.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11941020.3/78

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected




Right In: -797.285+/-487.453 $\chi^2$/NDF: 13.4/15

Left Out: -450.113+/-295.142 $\chi^2$/NDF:25.7/22

Right Out: -370.010+/-485.826 $\chi^2$/NDF: 15.6/18

Left In: -181.078+/-301.163 $\chi^2$/NDF:28.0/20

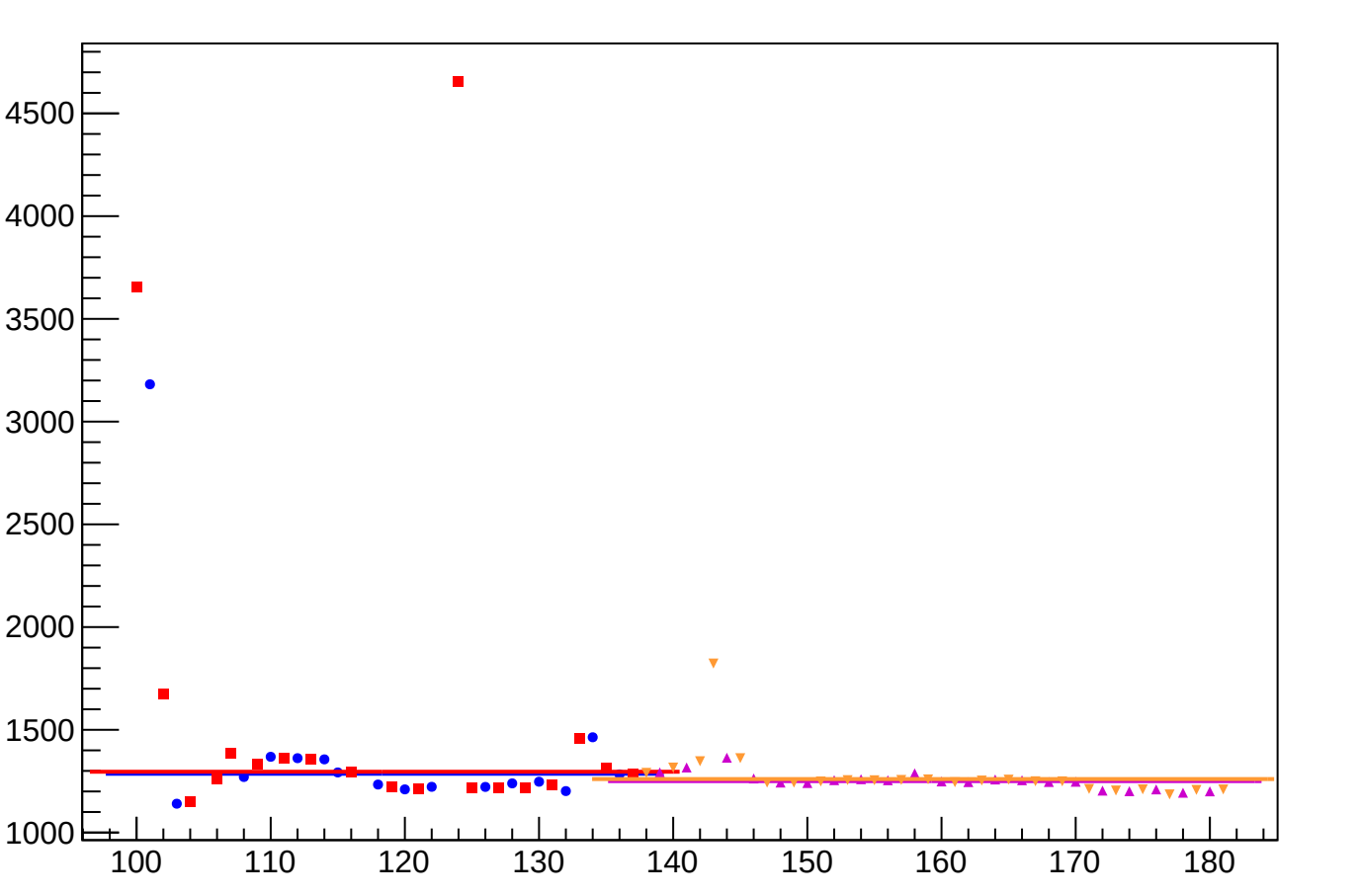
Left: -318.312+/-210.794 $\chi^2$/NDF: 54.1/43

Right: -582.933+/-344.105 $\chi^2$/NDF: 29.4/34

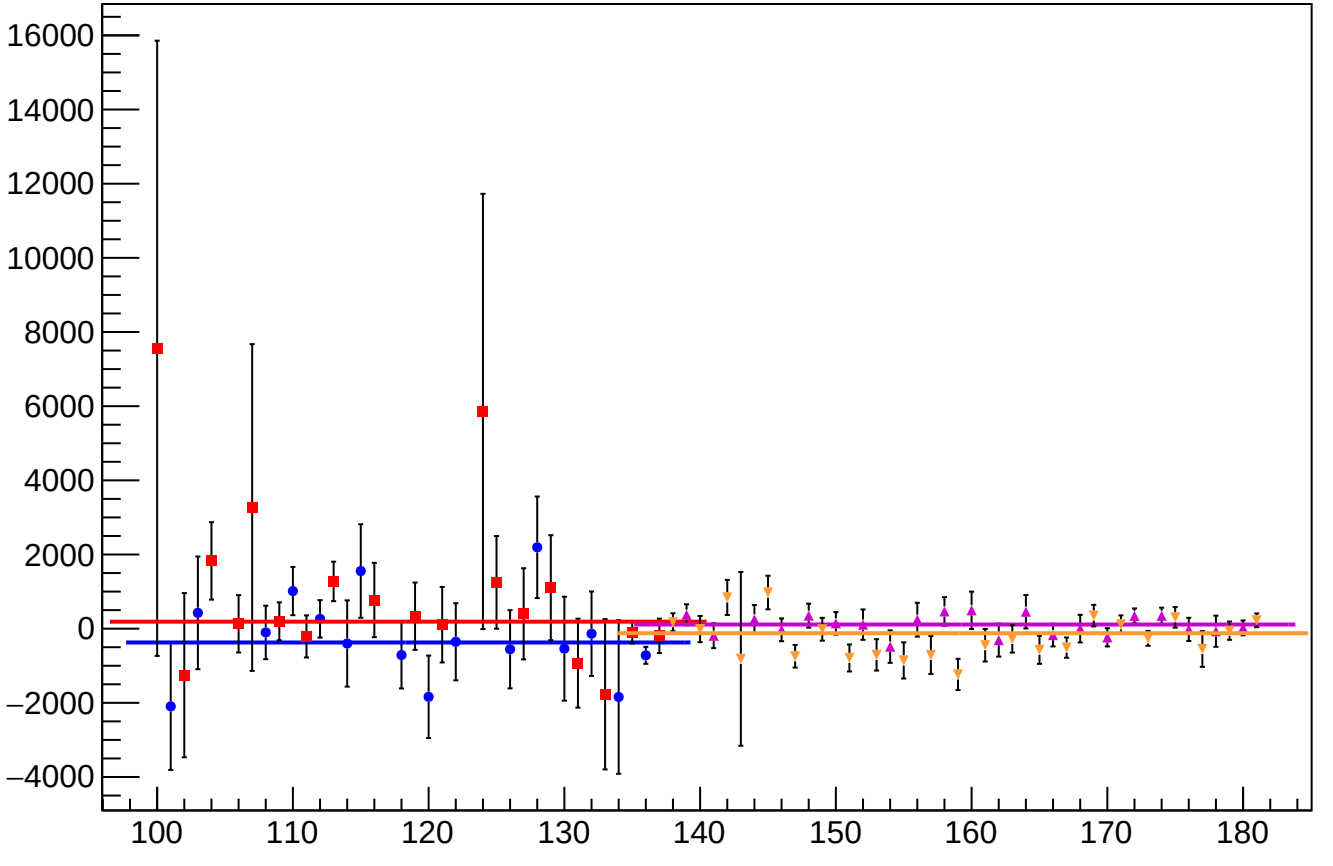
In: -351.312+/-256.208 $\chi^2$/NDF:42.6/36

Out: -428.520+/-252.243 $\chi^2$/NDF:41.3/41

All: -390.518+/-179.748 $\chi^2$/NDF: 83.9/78


reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected
4500
4000
3500
3000
2500
2000
1500
1000
100
110
120
130
140
150
160
170
180
Right In: 1286.097+/-0.345 χ²/NDF: 518126.9/15
Left Out: 1260.308+/-0.209 χ²/NDF:194520.5/22
Right Out: 1295.943+/-0.344 χ²/NDF: 328069.9/18
Left In: 1250.362+/-0.213 χ²/NDF:34431.3/20
Left: 1255.436+/-0.149 χ²/NDF: 230064.4/43
Right: 1291.036+/-0.243 χ²/NDF: 846606.2/34
In: 1260.234+/-0.181 χ²/NDF:560337.3/36
Out: 1269.914+/-0.178 χ²/NDF:530449.7/41
All: 1265.150+/-0.127 χ²/NDF: 1092236.8/78

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -372.325+/-168.204 $\chi^2$/NDF: 18.2/15

Left Out: -122.476+/-65.651 $\chi^2$/NDF:46.7/22

Right Out: 188.945+/-169.575 $\chi^2$/NDF: 14.6/18

Left In: 112.029+/-67.902 $\chi^2$/NDF:13.5/20

Left: -9.175+/-47.198 $\chi^2$/NDF: 66.3/43

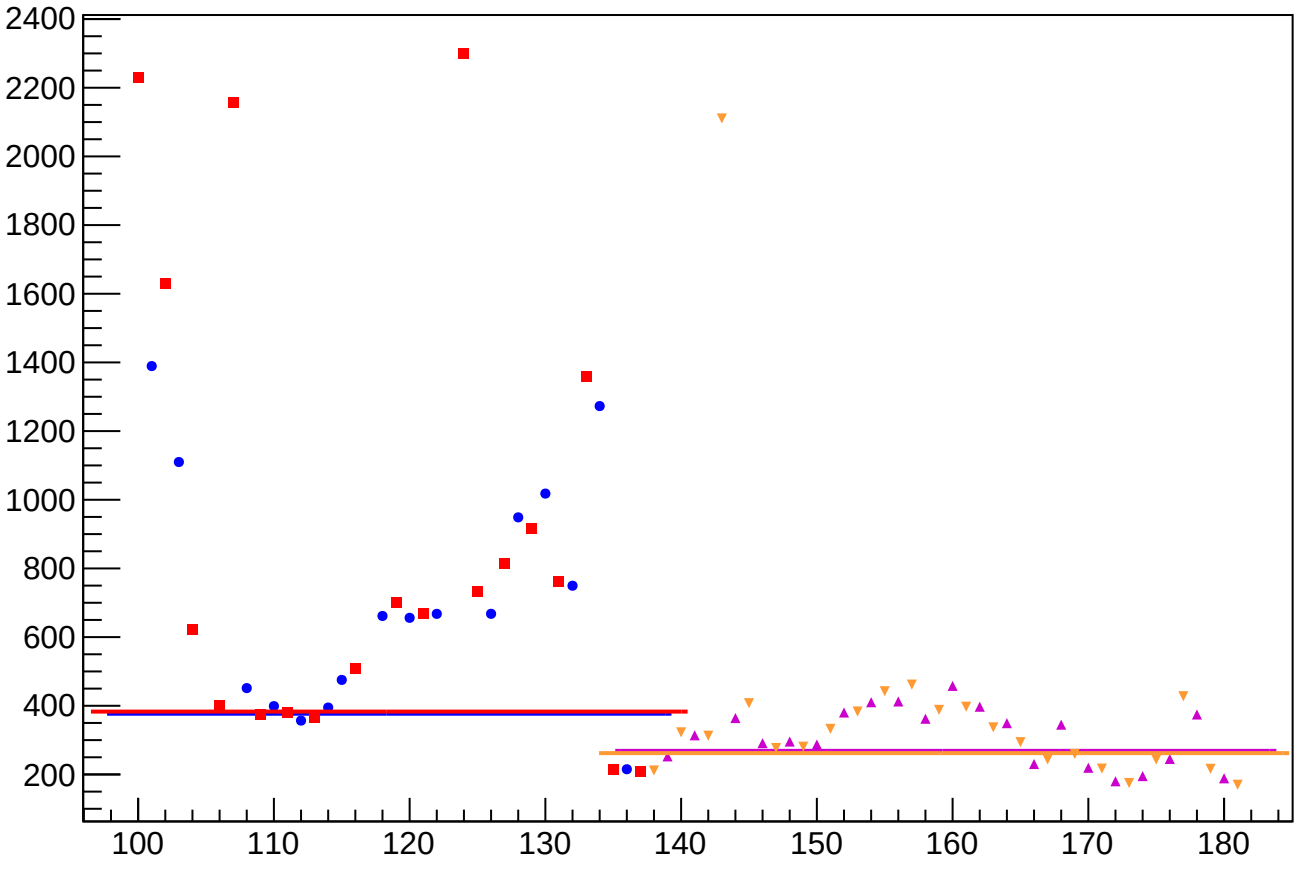
Right: -93.969+/-119.420 $\chi^2$/NDF: 38.3/34

In: 44.157+/-62.965 $\chi^2$/NDF:38.7/36

Out: -81.884+/-61.223 $\chi^2$/NDF:64.3/41

All: -20.631+/-43.894 $\chi^2$/NDF: 105.1/78

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 376.893+/-0.119 $\chi^2$/NDF: 4190194.7/15

Left Out: 262.119+/-0.046 $\chi^2$/NDF:4172625.8/22

Right Out: 383.074+/-0.120 $\chi^2$/NDF: 4054121.5/18

Left In: 268.718+/-0.048 $\chi^2$/NDF:2652731.8/20

Left: 265.307+/-0.033 $\chi^2$/NDF: 6835118.8/43

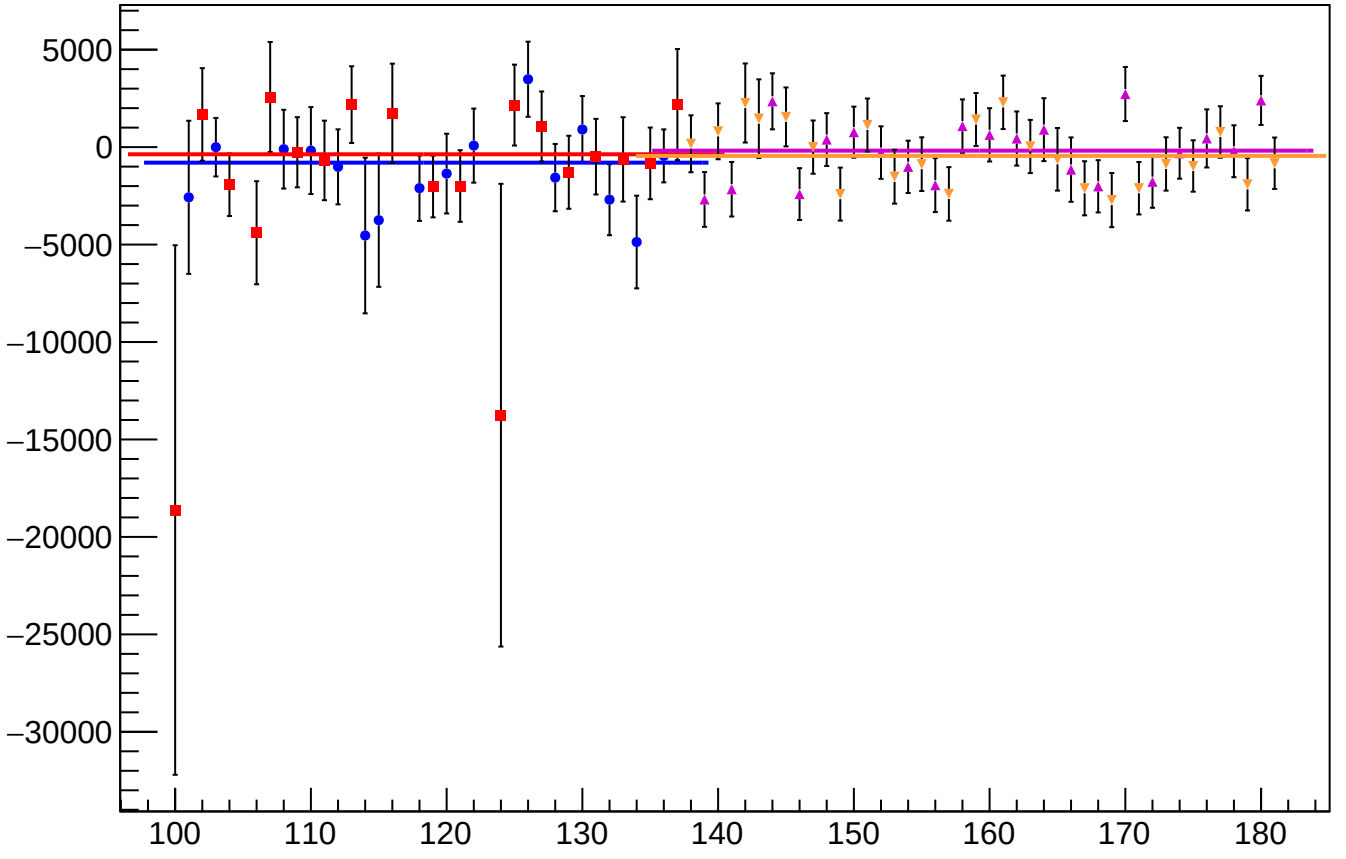
Right: 379.958+/-0.084 $\chi^2$/NDF: 8245655.7/34

In: 283.876+/-0.045 $\chi^2$/NDF:7554214.4/36

Out: 277.885+/-0.043 $\chi^2$/NDF:9111648.3/41

All: 280.797+/-0.031 $\chi^2$/NDF: 16675169.2/78

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected




Right In: -796.883+/-487.454 $\chi^2$/NDF: 13.4/15

Left Out: -450.066+/-295.142 $\chi^2$/NDF:25.7/22

Right Out: -367.476+/-486.348 $\chi^2$/NDF: 15.7/18

Left In: -181.049+/-301.163 $\chi^2$/NDF:28.0/20

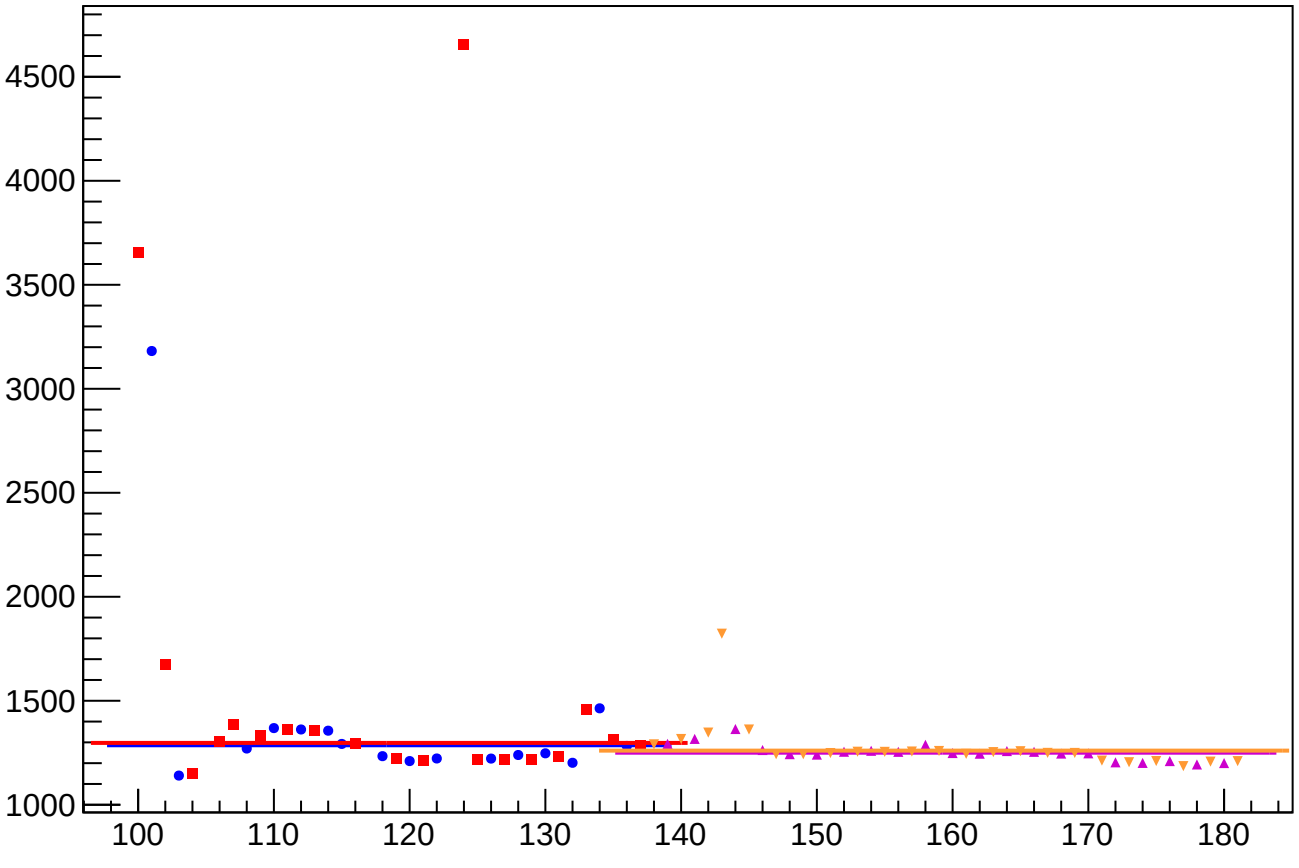
Left: -318.274+/-210.794 $\chi^2$/NDF: 54.1/43

Right: -581.692+/-344.290 $\chi^2$/NDF: 29.5/34

In: -351.180+/-256.208 $\chi^2$/NDF:42.6/36

Out: -427.837+/-252.316 $\chi^2$/NDF:41.4/41

All: -390.095+/-179.775 $\chi^2$/NDF: 84.0/78




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1260.308+/-0.209 $\chi^2$/NDF:194520.4/22

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1250.362+/-0.213 $\chi^2$/NDF:34431.2/20

Left: 1255.436+/-0.149 $\chi^2$/NDF: 230064.4/43

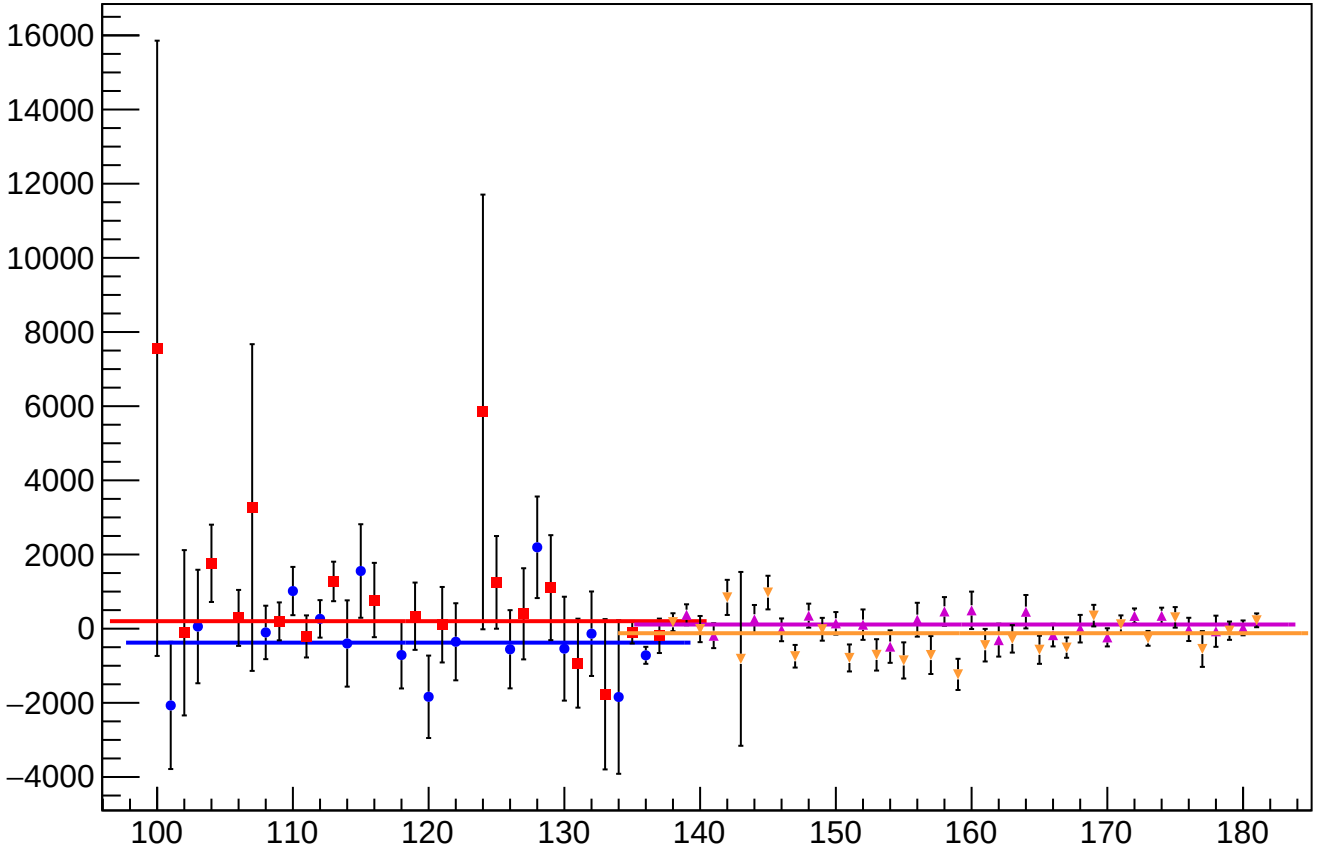
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1260.234+/-0.181 $\chi^2$/NDF:560338.6/36

Out: 1270.290+/-0.178 $\chi^2$/NDF:530761.3/41

All: 1265.339+/-0.127 $\chi^2$/NDF: 1092663.9/78

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: -122.454+/-65.652 $\chi^2$/NDF:46.7/22

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 112.147+/-67.904 $\chi^2$/NDF:13.4/20

Left: -9.108+/-47.199 $\chi^2$/NDF: 66.3/43

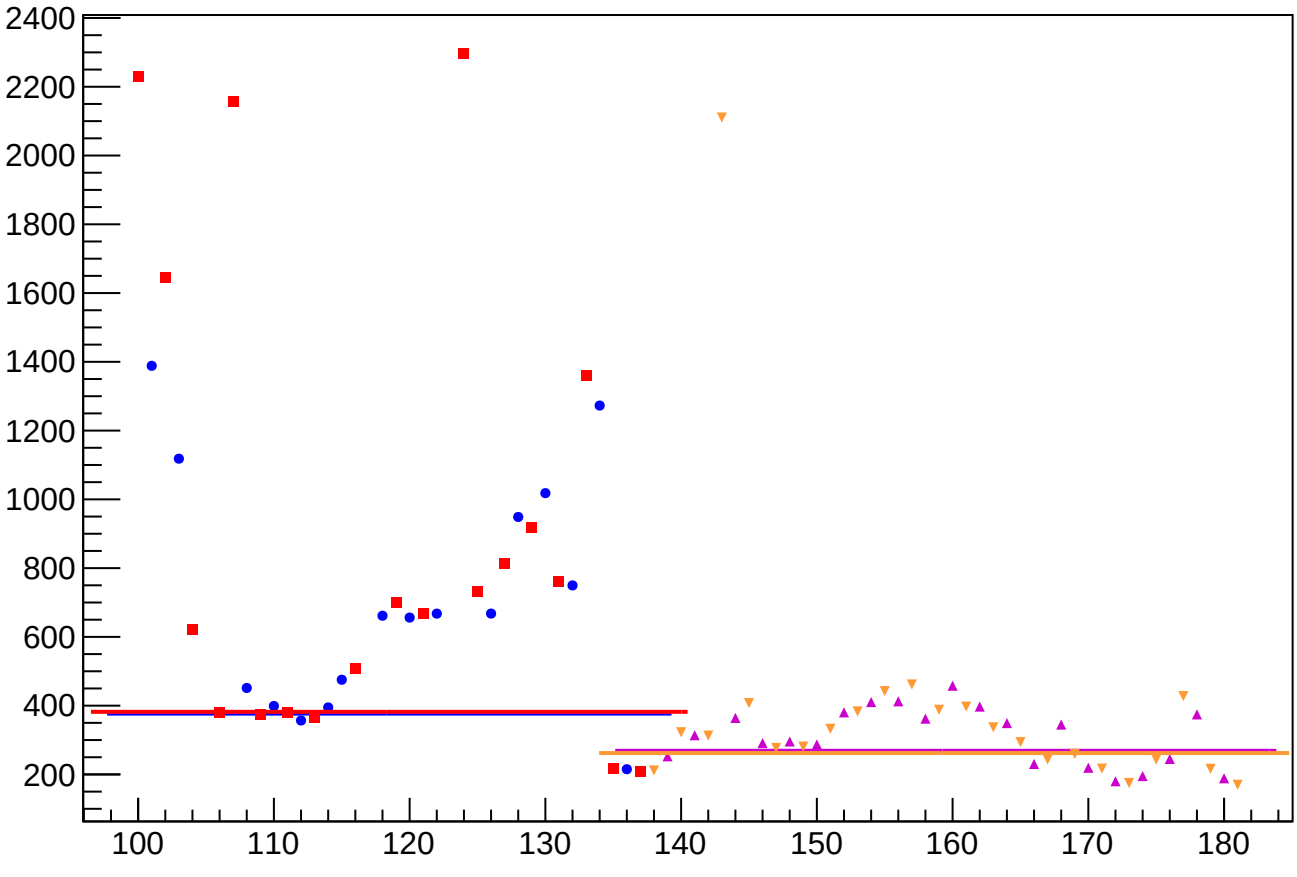
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: 43.647+/-62.967 $\chi^2$/NDF:38.6/36

Out: -80.056+/-61.214 $\chi^2$/NDF:64.0/41

All: -19.951+/-43.892 $\chi^2$/NDF: 104.6/78

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 262.125+/-0.046 $\chi^2$/NDF:4172619.8/22

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 268.727+/-0.048 $\chi^2$/NDF:2652422.5/20

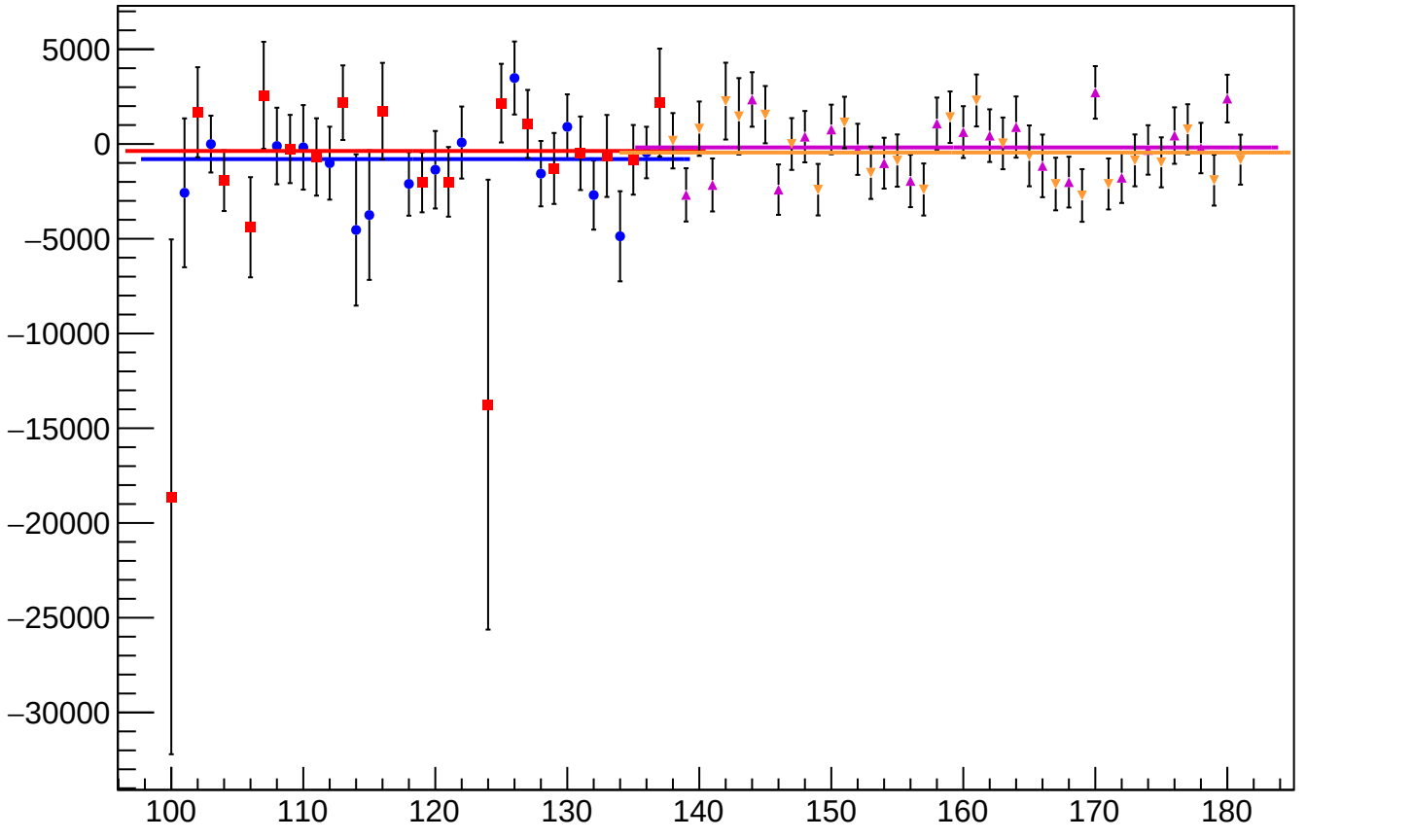
Left: 265.314+/-0.033 $\chi^2$/NDF: 6834813.6/43

Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 283.880+/-0.045 $\chi^2$/NDF:7556658.1/36

Out: 277.800+/-0.043 $\chi^2$/NDF:9105140.5/41

All: 280.754+/-0.031 $\chi^2$/NDF: 16671385.5/78




Right In: -796.883+/-487.454 $\chi^2$/NDF: 13.4/15

Left Out: -450.066+/-295.142 $\chi^2$/NDF:25.7/22

Right Out: -367.476+/-486.348 $\chi^2$/NDF: 15.7/18

Left In: -181.049+/-301.163 $\chi^2$/NDF:28.0/20

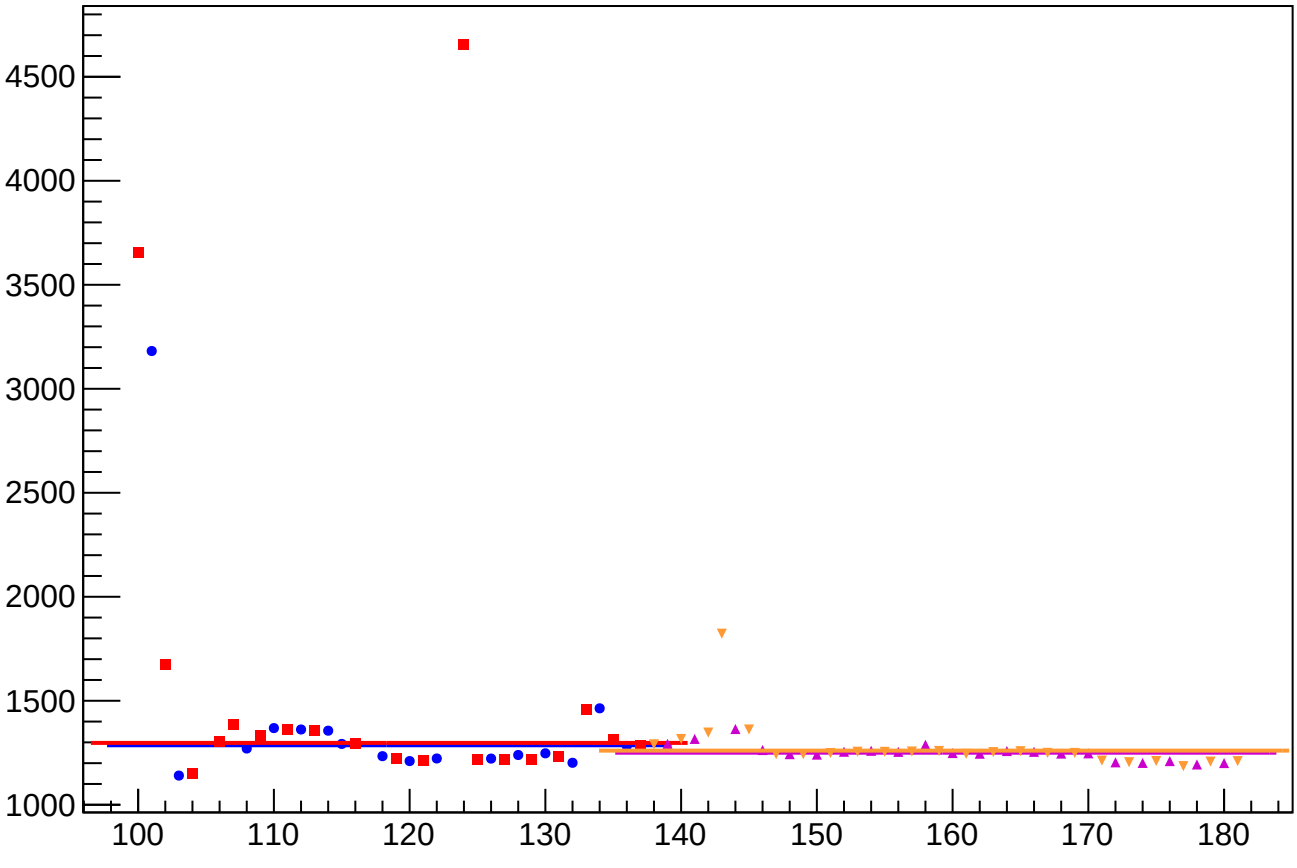
Left: -318.274+/-210.794 $\chi^2$/NDF: 54.1/43

Right: -581.692+/-344.290 $\chi^2$/NDF: 29.5/34

In: -351.180+/-256.208 $\chi^2$/NDF:42.6/36

Out: -427.837+/-252.316 $\chi^2$/NDF:41.4/41

All: -390.095+/-179.775 $\chi^2$/NDF: 84.0/78




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1260.308+/-0.209 $\chi^2$/NDF:194520.4/22

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1250.362+/-0.213 $\chi^2$/NDF:34431.2/20

Left: 1255.436+/-0.149 $\chi^2$/NDF: 230064.4/43

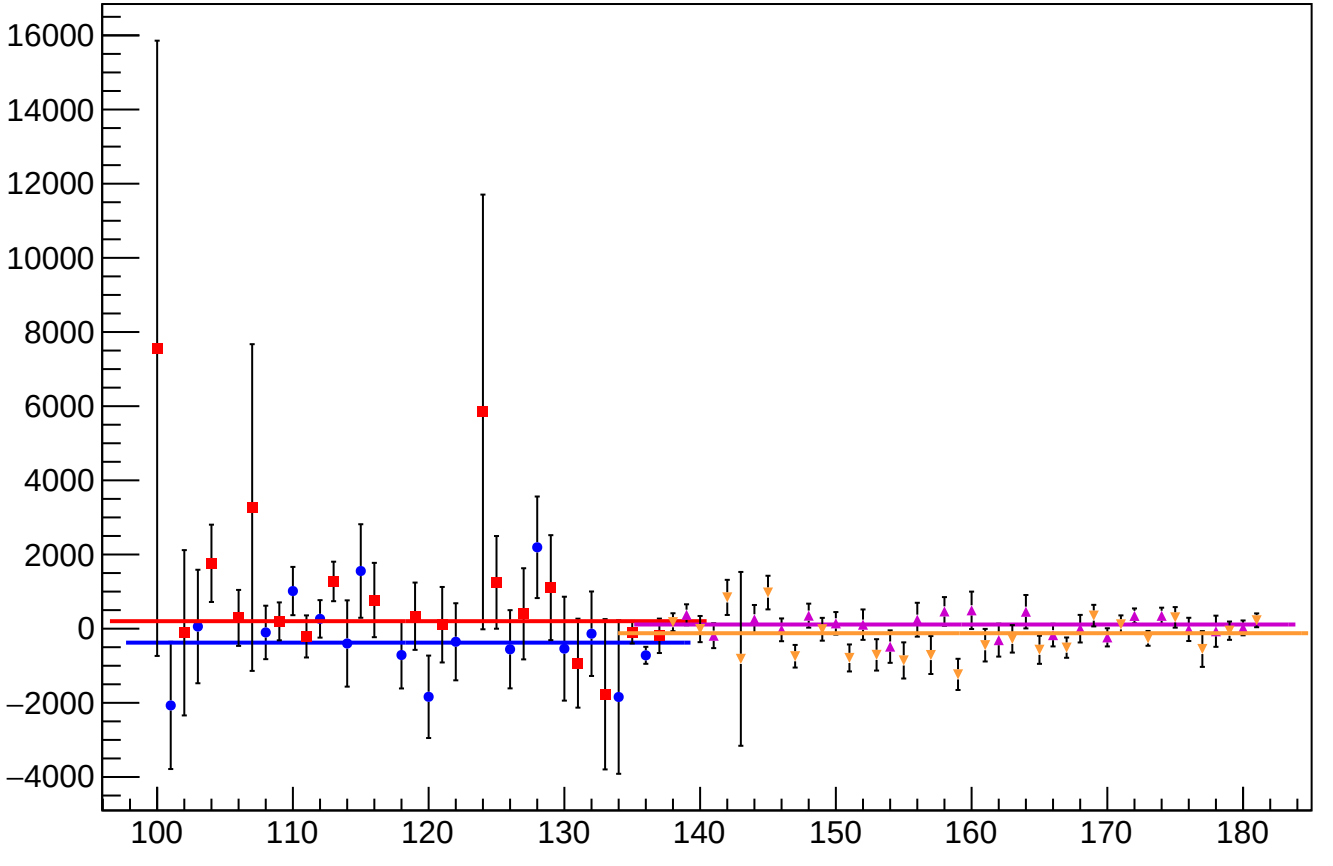
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1260.234+/-0.181 $\chi^2$/NDF:560338.6/36

Out: 1270.290+/-0.178 $\chi^2$/NDF:530761.3/41

All: 1265.339+/-0.127 $\chi^2$/NDF: 1092663.9/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: -122.454+/-65.652 $\chi^2$/NDF:46.7/22

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 112.147+/-67.904 $\chi^2$/NDF:13.4/20

Left: -9.108+/-47.199 $\chi^2$/NDF: 66.3/43

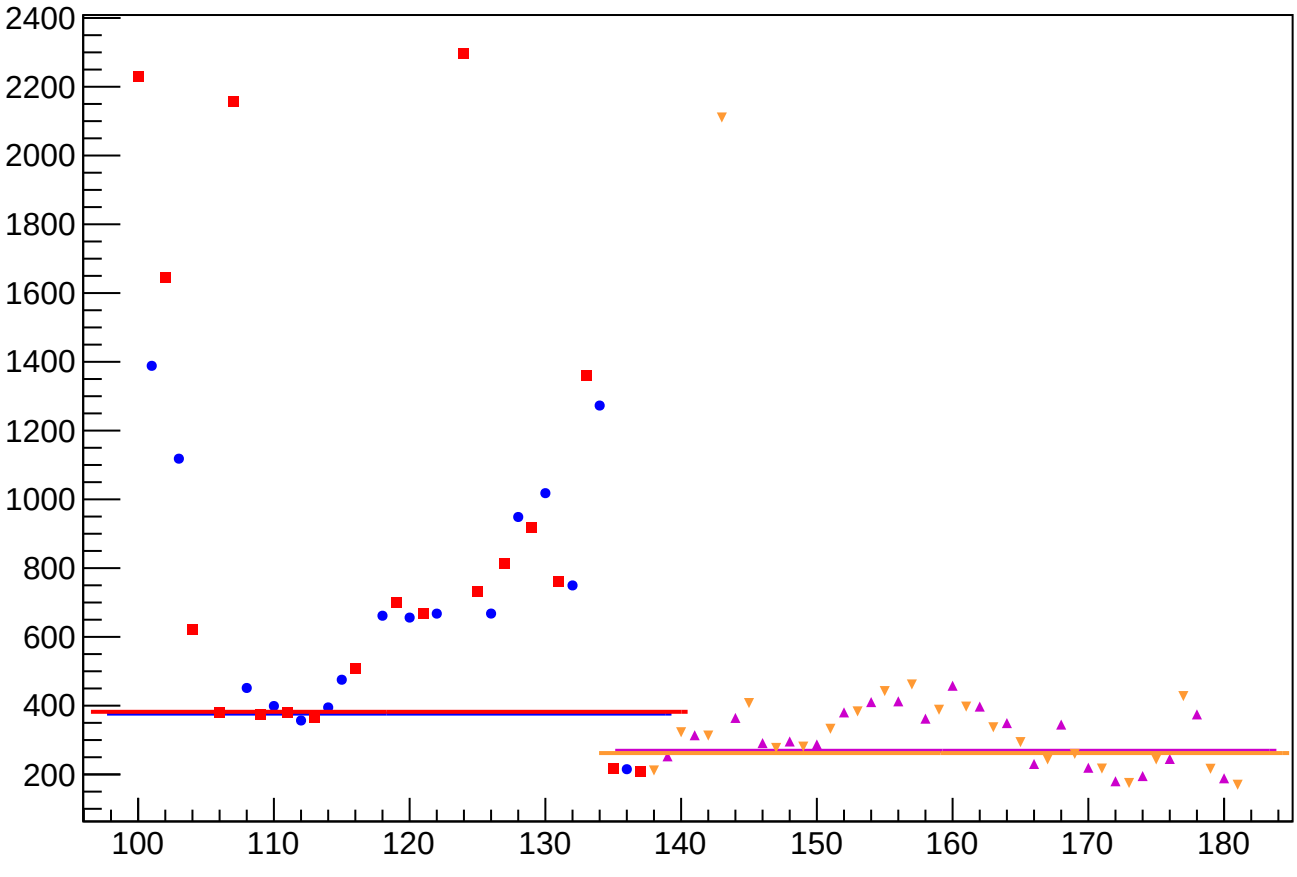
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: 43.647+/-62.967 $\chi^2$/NDF:38.6/36

Out: -80.056+/-61.214 $\chi^2$/NDF:64.0/41

All: -19.951+/-43.892 $\chi^2$/NDF: 104.6/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 262.125+/-0.046 $\chi^2$/NDF:4172619.8/22

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 268.727+/-0.048 $\chi^2$/NDF:2652422.5/20

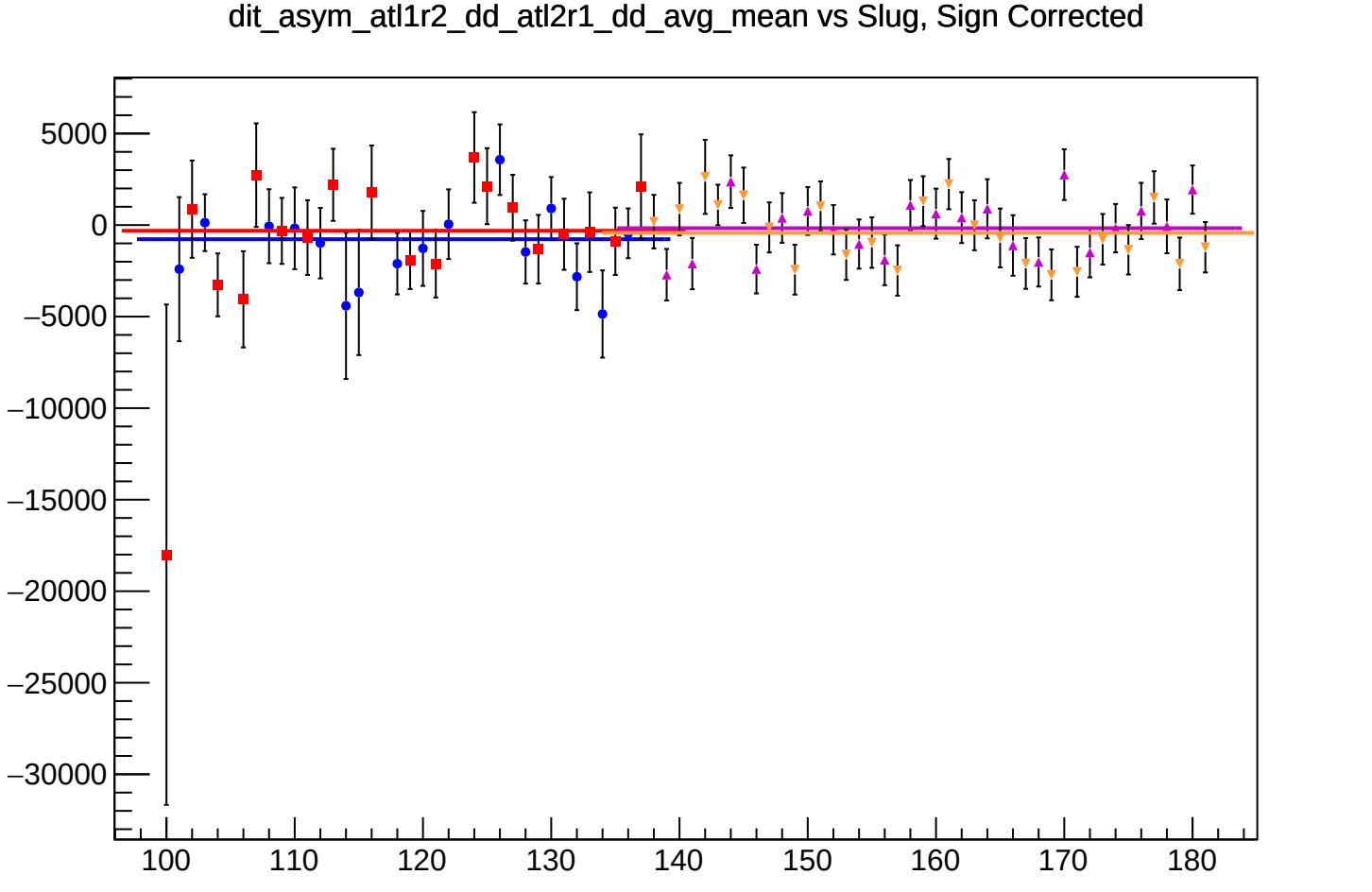
Left: 265.314+/-0.033 $\chi^2$/NDF: 6834813.6/43

Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 283.880+/-0.045 $\chi^2$/NDF:7556658.1/36

Out: 277.800+/-0.043 $\chi^2$/NDF:9105140.5/41

All: 280.754+/-0.031 $\chi^2$/NDF: 16671385.5/78




Right In: -771.499+/-489.602 $\chi^2$/NDF: 13.6/15

Left Out: -427.671+/-291.318 $\chi^2$/NDF:29.7/22

Right Out: -311.418+/-482.642 $\chi^2$/NDF: 17.9/18

Left In: -170.087+/-304.260 $\chi^2$/NDF:26.1/20

Left: -304.474+/-210.419 $\chi^2$/NDF: 56.2/43

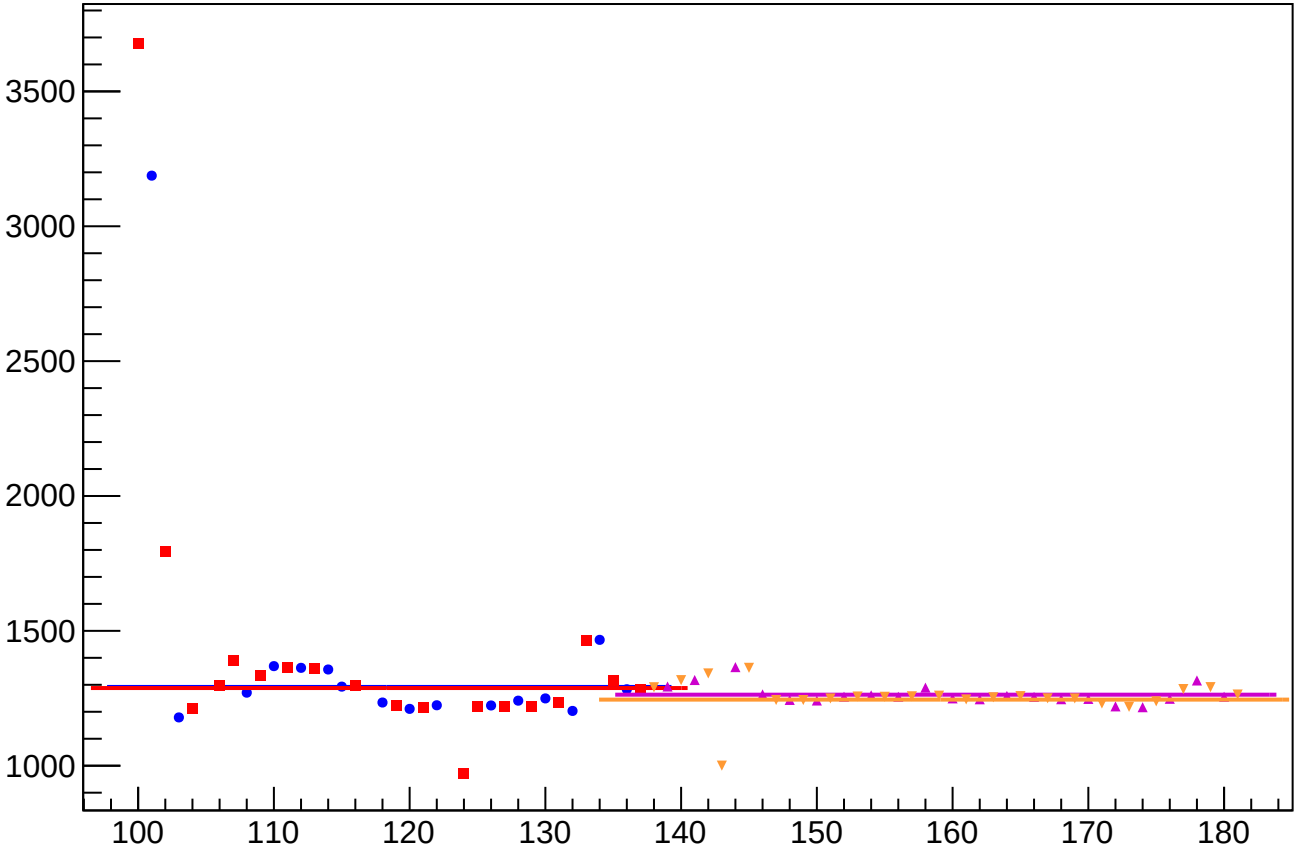
Right: -538.165+/-343.714 $\chi^2$/NDF: 32.0/34

In: -337.640+/-258.424 $\chi^2$/NDF:40.8/36

Out: -396.627+/-249.407 $\chi^2$/NDF:47.7/41

All: -368.180+/-179.461 $\chi^2$/NDF: 88.5/78

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.3/15

Left Out: 1245.065+/-0.206 $\chi^2$/NDF:127405.0/22

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209208.8/18

Left In: 1263.353+/-0.215 $\chi^2$/NDF:24326.9/20

Left: 1253.812+/-0.149 $\chi^2$/NDF: 155501.5/43

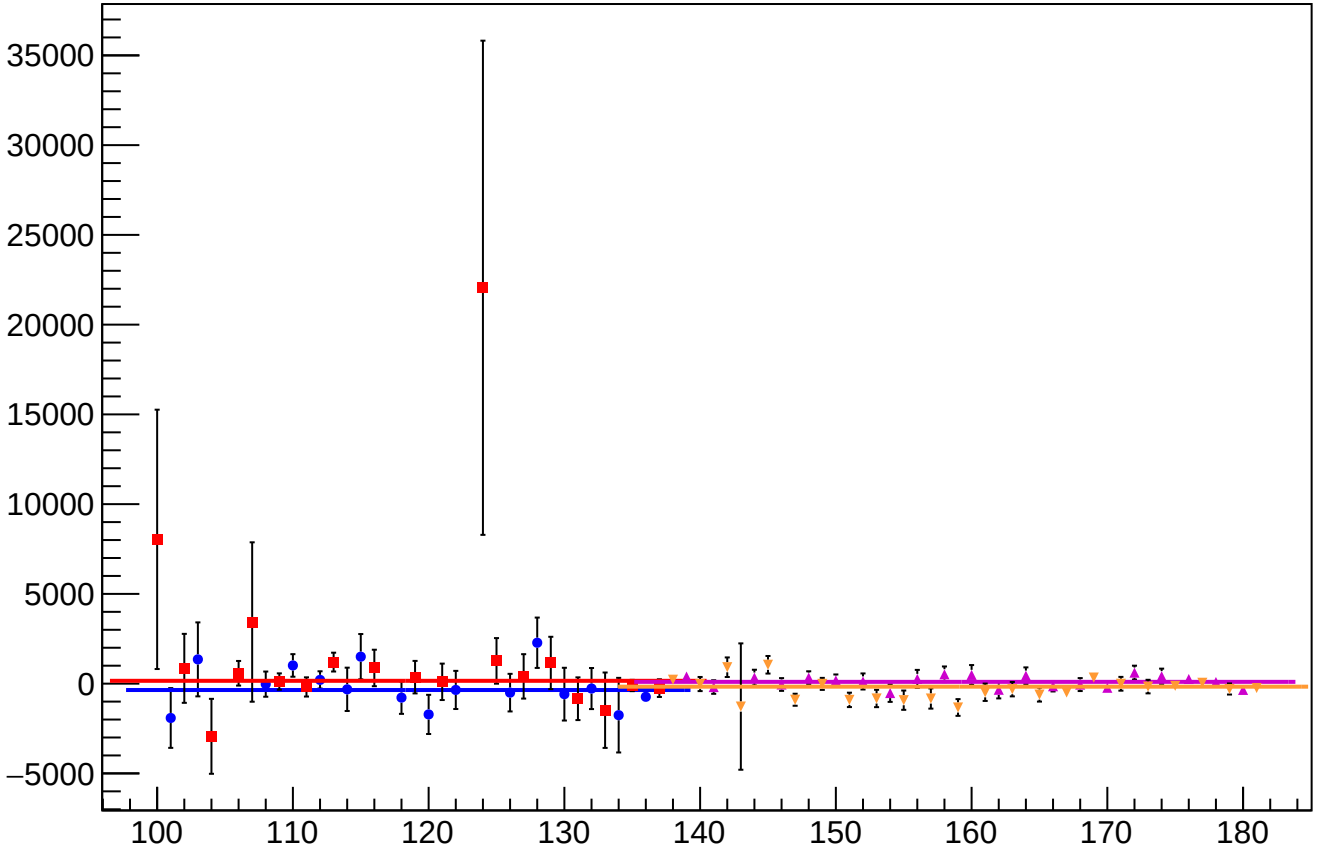
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.5/34

In: 1271.345+/-0.183 $\chi^2$/NDF:538685.7/36

Out: 1256.527+/-0.176 $\chi^2$/NDF:348208.1/41

All: 1263.673+/-0.127 $\chi^2$/NDF: 890298.1/78

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -355.226+/-169.971 $\chi^2$/NDF: 18.4/15

Left Out: -168.765+/-65.544 $\chi^2$/NDF:41.8/22

Right Out: 157.924+/-169.665 $\chi^2$/NDF: 15.8/18

Left In: 99.779+/-70.880 $\chi^2$/NDF:16.2/20

Left: -44.980+/-48.122 $\chi^2$/NDF: 65.8/43

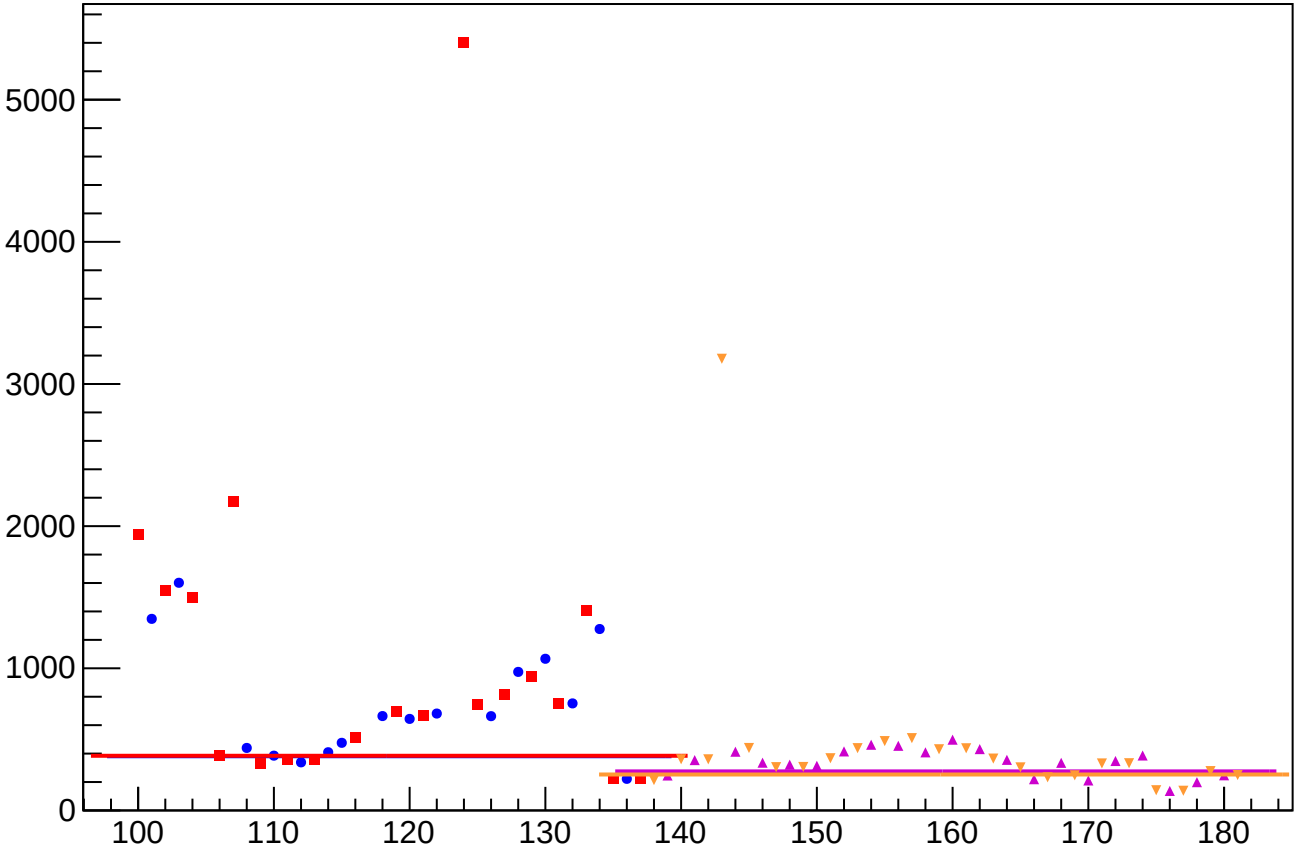
Right: -98.189+/-120.079 $\chi^2$/NDF: 38.8/34

In: 32.376+/-65.419 $\chi^2$/NDF:40.8/36

Out: -126.342+/-61.140 $\chi^2$/NDF:60.9/41

All: -52.343+/-44.669 $\chi^2$/NDF: 104.8/78

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 381.349+/-0.120 $\chi^2$/NDF: 4317922.6/15

Left Out: 253.005+/-0.046 $\chi^2$/NDF:6290402.9/22

Right Out: 384.651+/-0.120 $\chi^2$/NDF: 4560208.6/18

Left In: 274.828+/-0.050 $\chi^2$/NDF:4012127.0/20

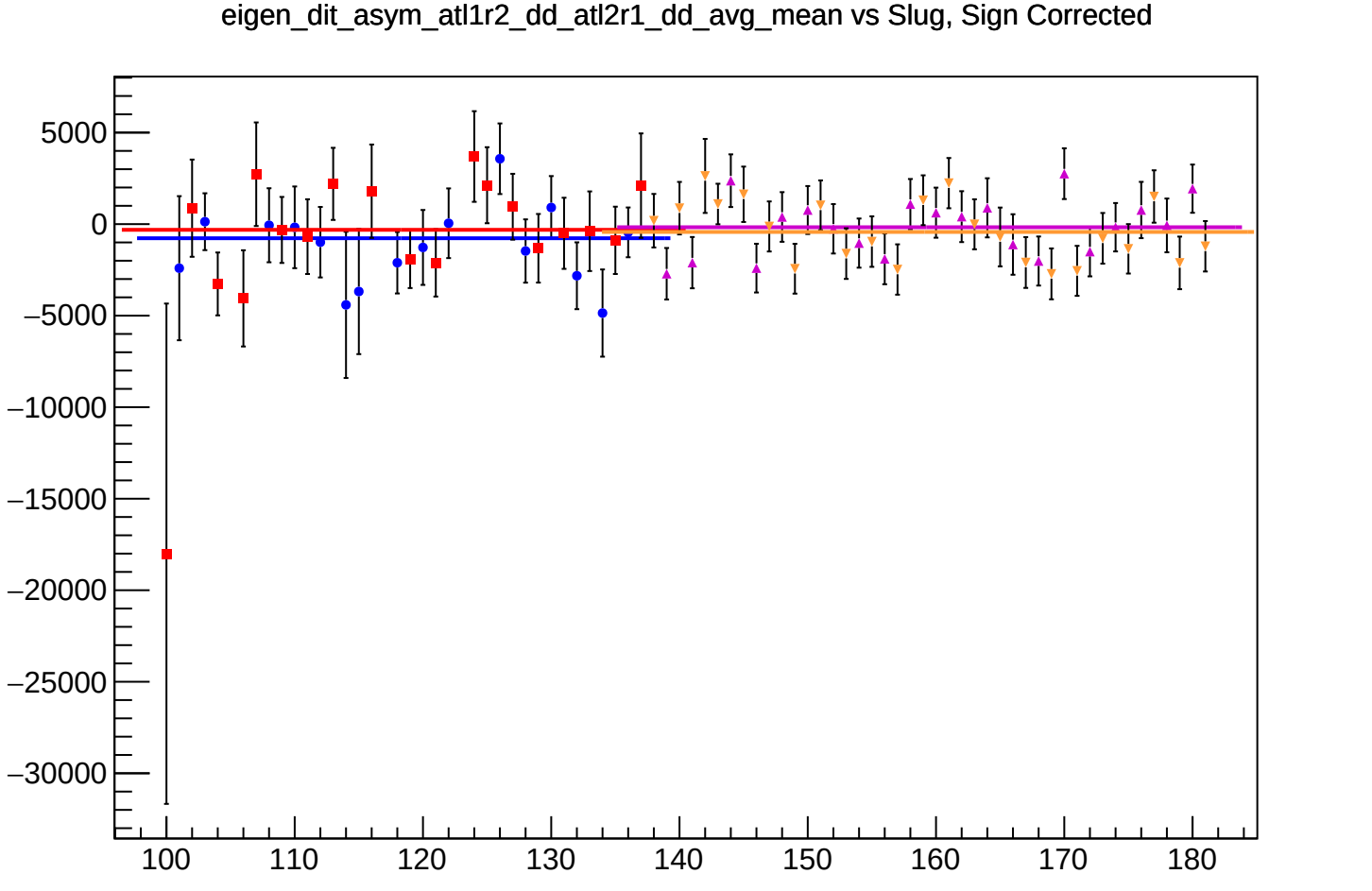
Left: 263.064+/-0.034 $\chi^2$/NDF: 10404724.7/43

Right: 383.003+/-0.085 $\chi^2$/NDF: 8878509.2/34

In: 290.607+/-0.046 $\chi^2$/NDF:8999204.6/36

Out: 270.100+/-0.043 $\chi^2$/NDF:11898344.3/41

All: 279.661+/-0.032 $\chi^2$/NDF: 21002451.1/78




Right In: -771.501+/-489.602 $\chi^2$/NDF: 13.6/15

Left Out: -427.670+/-291.318 $\chi^2$/NDF:29.7/22

Right Out: -311.419+/-482.642 $\chi^2$/NDF: 17.9/18

Left In: -170.087+/-304.260 $\chi^2$/NDF:26.1/20

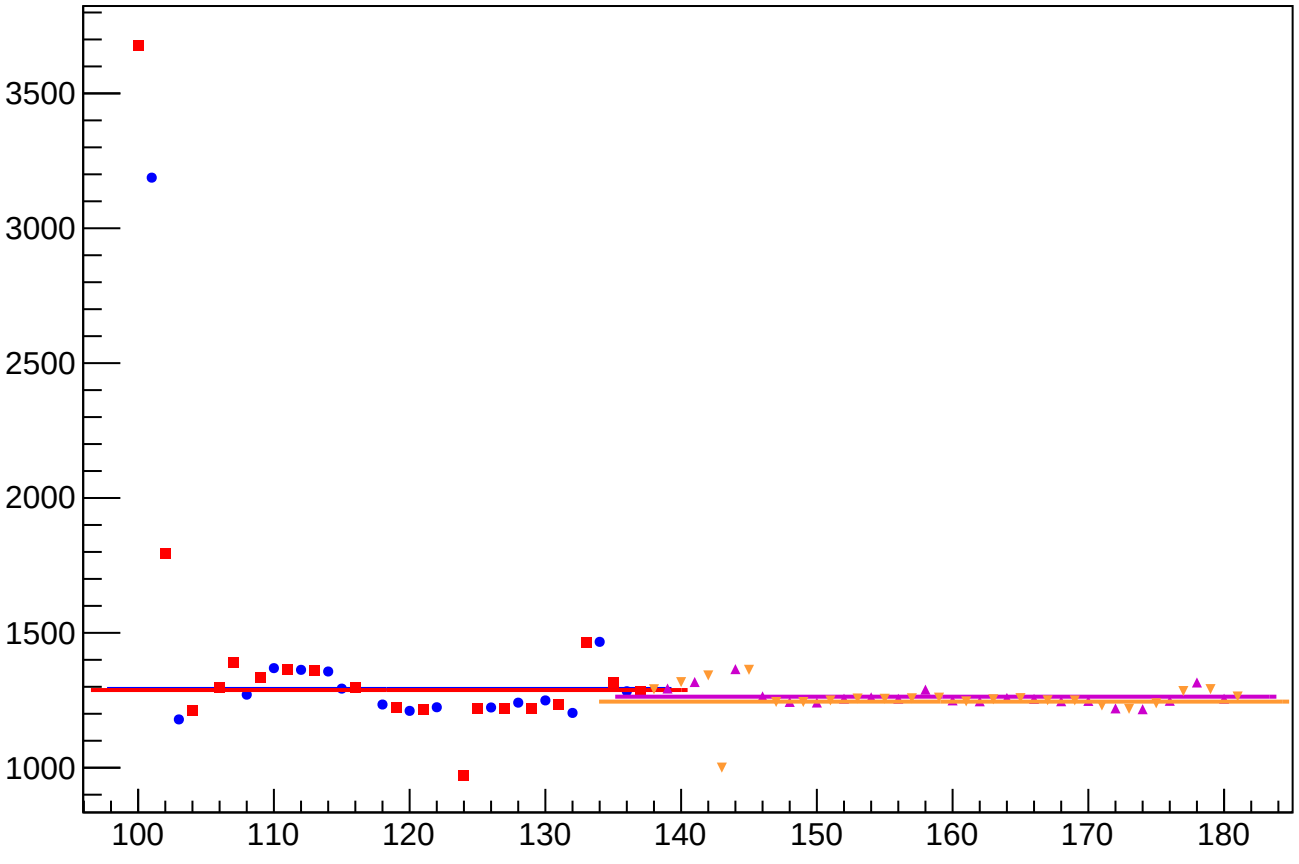
Left: -304.473+/-210.419 $\chi^2$/NDF: 56.2/43

Right: -538.167+/-343.714 $\chi^2$/NDF: 32.0/34

In: -337.640+/-258.424 $\chi^2$/NDF:40.8/36

Out: -396.627+/-249.407 $\chi^2$/NDF:47.7/41

All: -368.181+/-179.461 $\chi^2$/NDF: 88.5/78




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.2/15

Left Out: 1245.065+/-0.206 $\chi^2$/NDF:127404.1/22

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209209.1/18

Left In: 1263.353+/-0.215 $\chi^2$/NDF:24327.0/20

Left: 1253.812+/-0.149 $\chi^2$/NDF: 155500.7/43

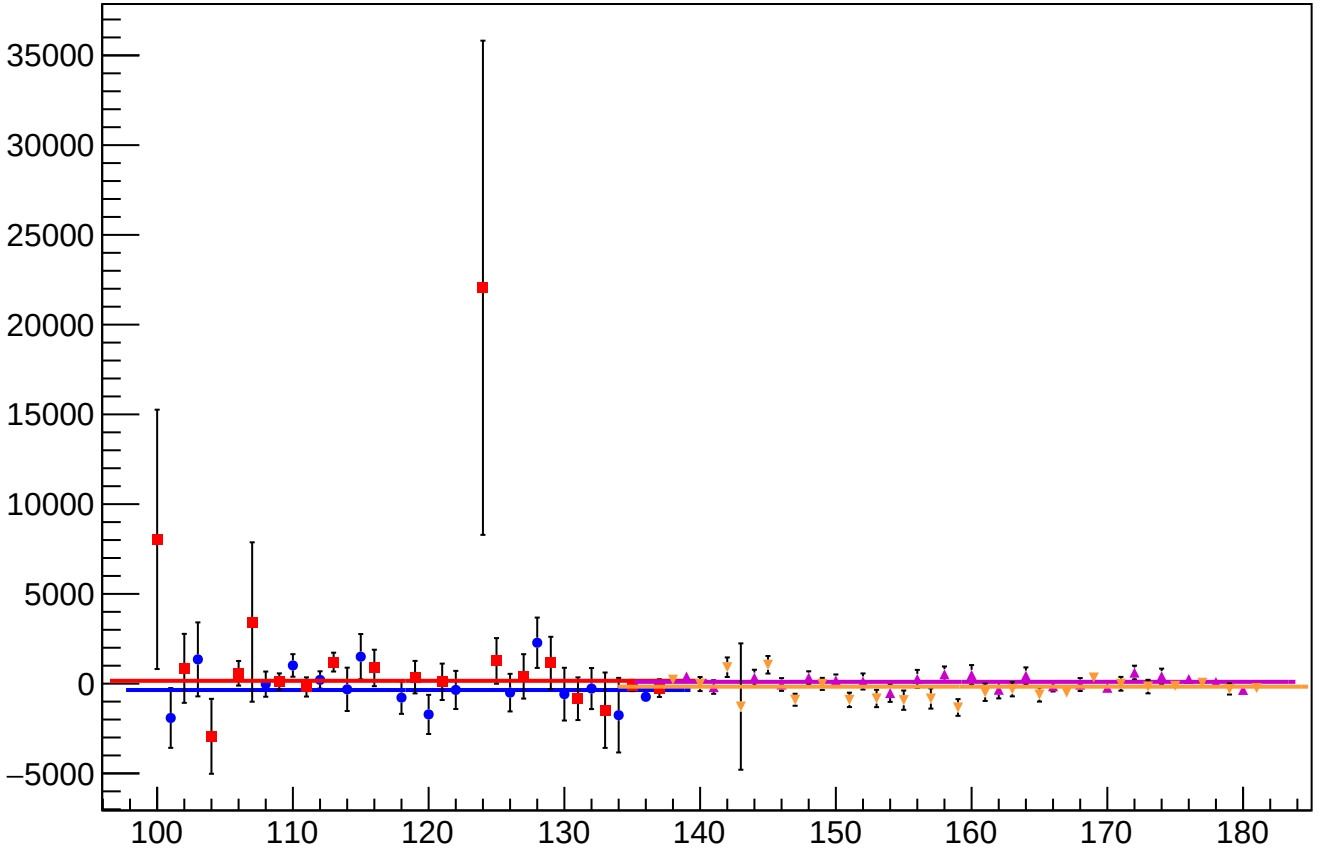
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.7/34

In: 1271.344+/-0.183 $\chi^2$/NDF:538685.8/36

Out: 1256.527+/-0.176 $\chi^2$/NDF:348207.5/41

All: 1263.673+/-0.127 $\chi^2$/NDF: 890297.5/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -355.226+/-169.973 $\chi^2$/NDF: 18.4/15

Left Out: -168.769+/-65.544 $\chi^2$/NDF:41.8/22

Right Out: 157.929+/-169.667 $\chi^2$/NDF: 15.8/18

Left In: 99.778+/-70.880 $\chi^2$/NDF:16.2/20

Left: -44.983+/-48.122 $\chi^2$/NDF: 65.8/43

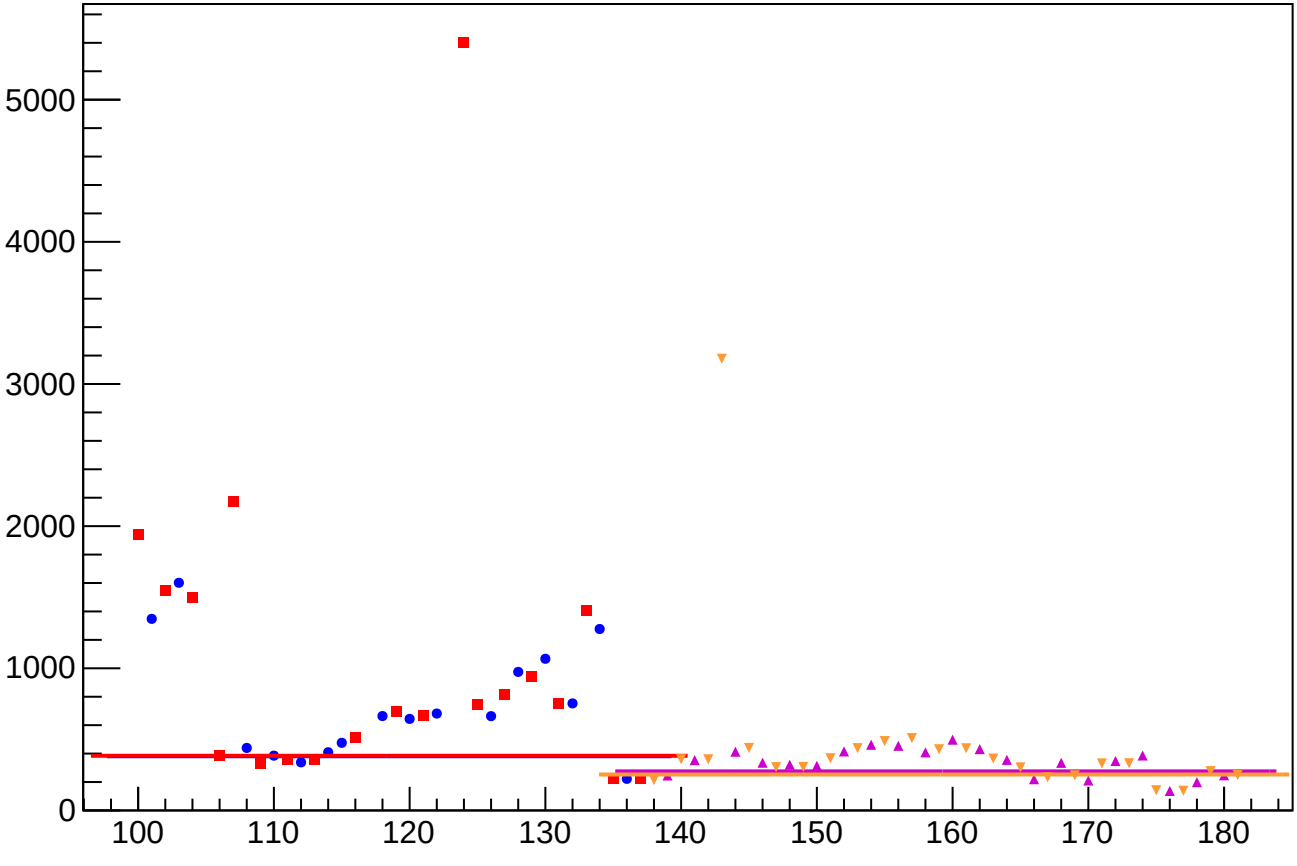
Right: -98.185+/-120.081 $\chi^2$/NDF: 38.8/34

In: 32.376+/-65.420 $\chi^2$/NDF:40.8/36

Out: -126.345+/-61.140 $\chi^2$/NDF:60.9/41

All: -52.345+/-44.669 $\chi^2$/NDF: 104.8/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 381.359+/-0.120 $\chi^2$/NDF: 4317737.3/15

Left Out: 253.006+/-0.046 $\chi^2$/NDF:6290306.7/22

Right Out: 384.658+/-0.120 $\chi^2$/NDF: 4560068.3/18

Left In: 274.828+/-0.050 $\chi^2$/NDF:4012088.2/20

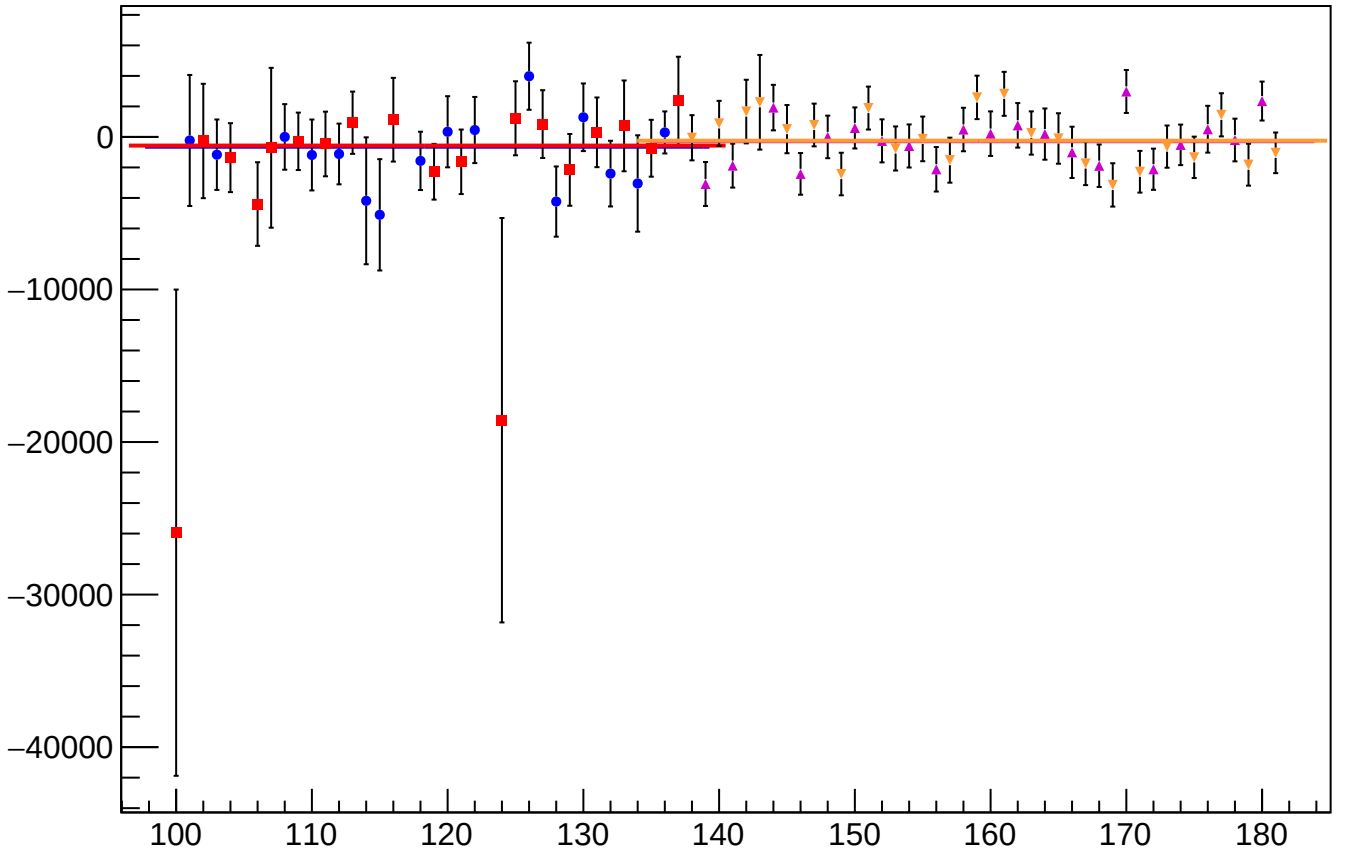
Left: 263.065+/-0.034 $\chi^2$/NDF: 10404581.7/43

Right: 383.012+/-0.085 $\chi^2$/NDF: 8878183.1/34

In: 290.609+/-0.046 $\chi^2$/NDF:8999080.5/36

Out: 270.102+/-0.043 $\chi^2$/NDF:11898185.9/41

All: 279.663+/-0.032 $\chi^2$/NDF: 21002163.9/78




Right In: -640.824+/-564.366 $\chi^2$/NDF: 12.5/15

Left Out: -246.934+/-307.086 $\chi^2$/NDF:28.5/22

Right Out: -567.254+/-566.774 $\chi^2$/NDF: 11.3/18

Left In: -280.507+/-311.407 $\chi^2$/NDF:26.0/20

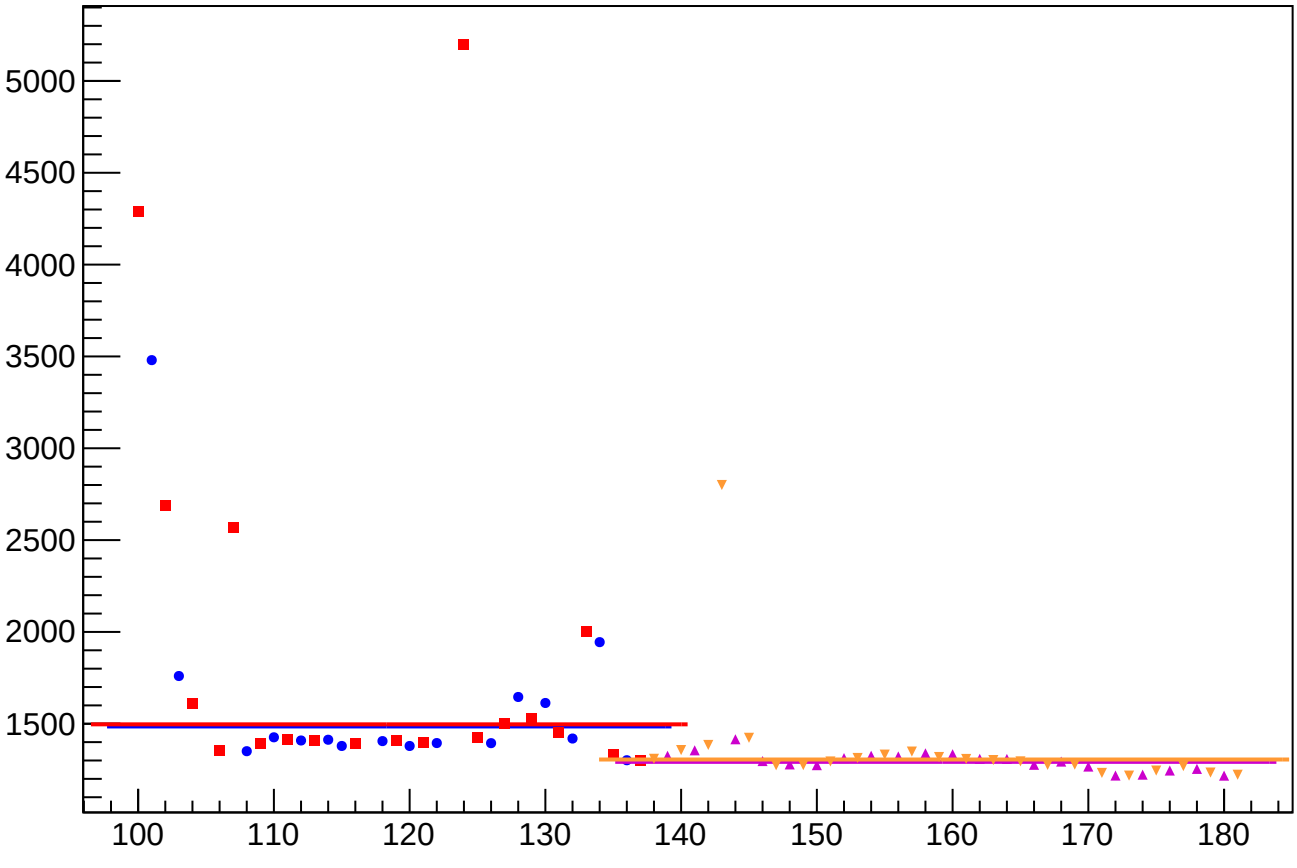
Left: -263.486+/-218.654 $\chi^2$/NDF: 54.5/43

Right: -604.196+/-399.916 $\chi^2$/NDF: 23.8/34

In: -364.605+/-272.655 $\chi^2$/NDF:38.8/36

Out: -319.628+/-270.002 $\chi^2$/NDF:40.1/41

All: -341.897+/-191.851 $\chi^2$/NDF: 78.9/78




Right In: 1485.370+/-0.399 $\chi^2$/NDF: 584470.1/15

Left Out: 1305.369+/-0.217 $\chi^2$/NDF:519026.6/22

Right Out: 1496.865+/-0.401 $\chi^2$/NDF: 623292.7/18

Left In: 1292.600+/-0.220 $\chi^2$/NDF:48260.6/20

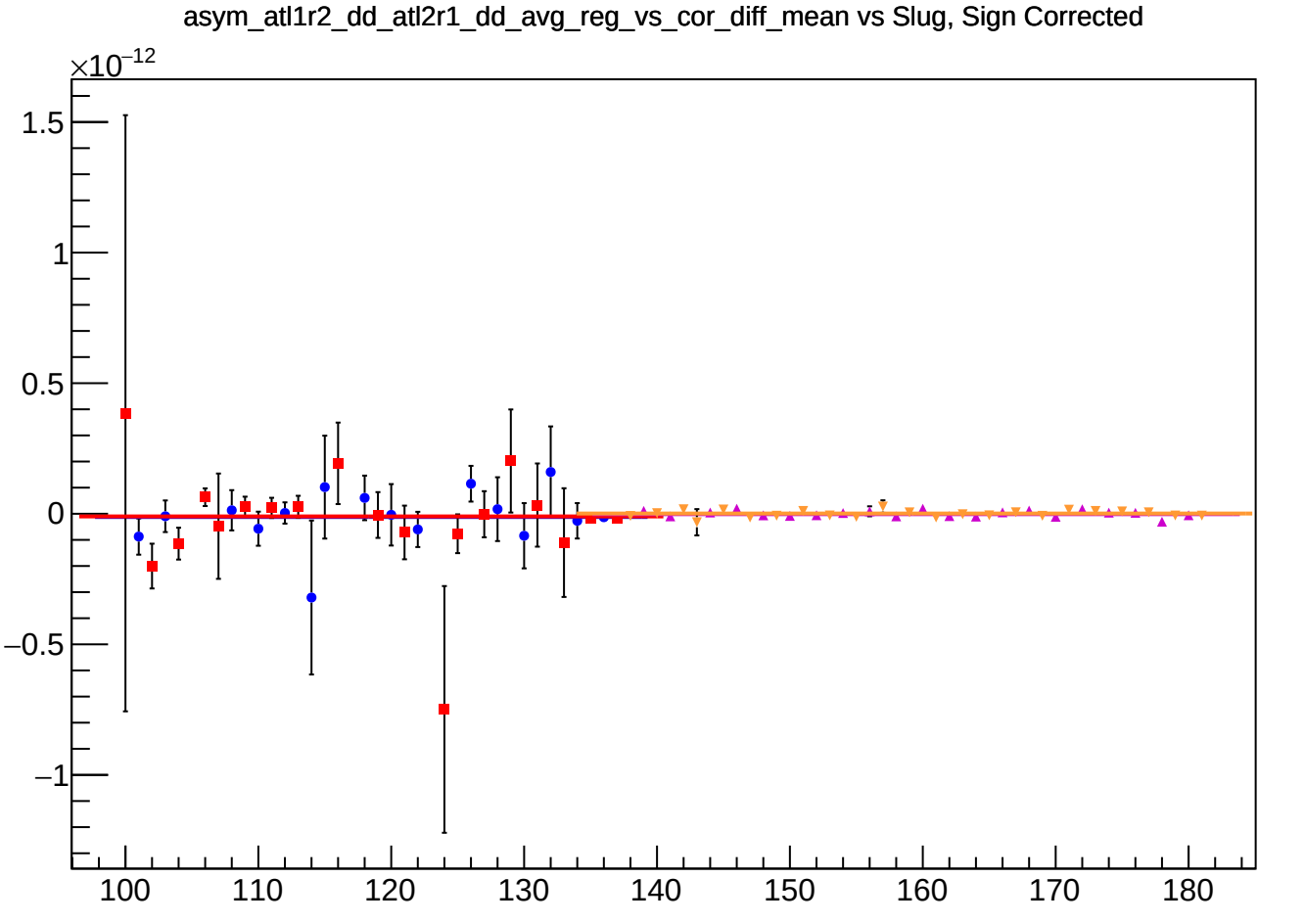
Left: 1299.073+/-0.155 $\chi^2$/NDF: 568991.9/43

Right: 1491.093+/-0.283 $\chi^2$/NDF: 1208175.9/34

In: 1337.593+/-0.193 $\chi^2$/NDF:811608.7/36

Out: 1348.827+/-0.191 $\chi^2$/NDF:1318821.1/41

All: 1343.265+/-0.136 $\chi^2$/NDF: 2132144.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:23.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.3/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 49.1/43

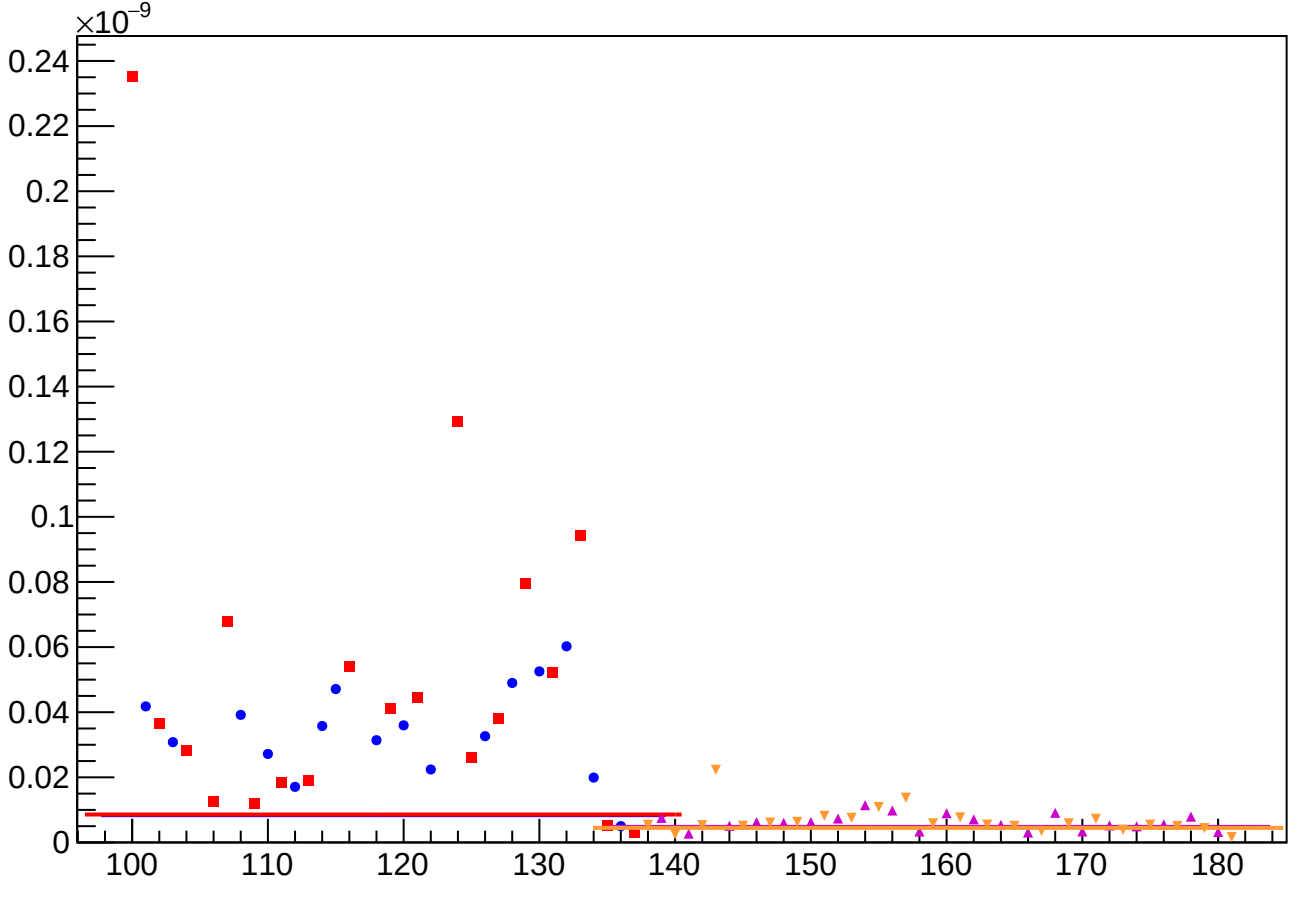
Right: -0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:36.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:47.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 84.8/78

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3059657.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2696144.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3348571.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1884560.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4603282.5/43

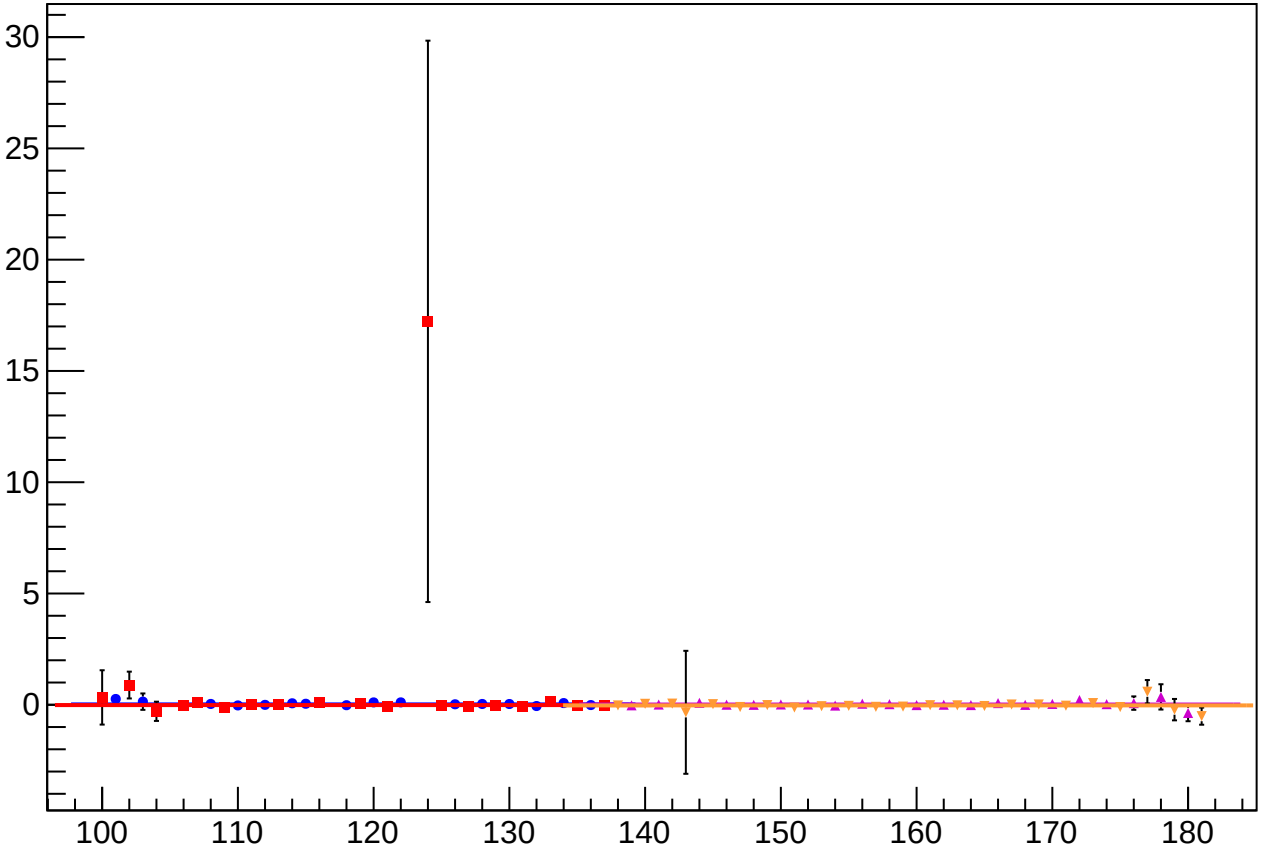
Right: 0.000+/-0.000 $\chi^2$/NDF: 6408892.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5381650.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6539805.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11952149.0/78

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.028+/-0.010 $\chi^2$/NDF:26.9/22

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.011+/-0.010 $\chi^2$/NDF:12.1/20

Left: -0.008+/-0.007 $\chi^2$/NDF: 47.4/43

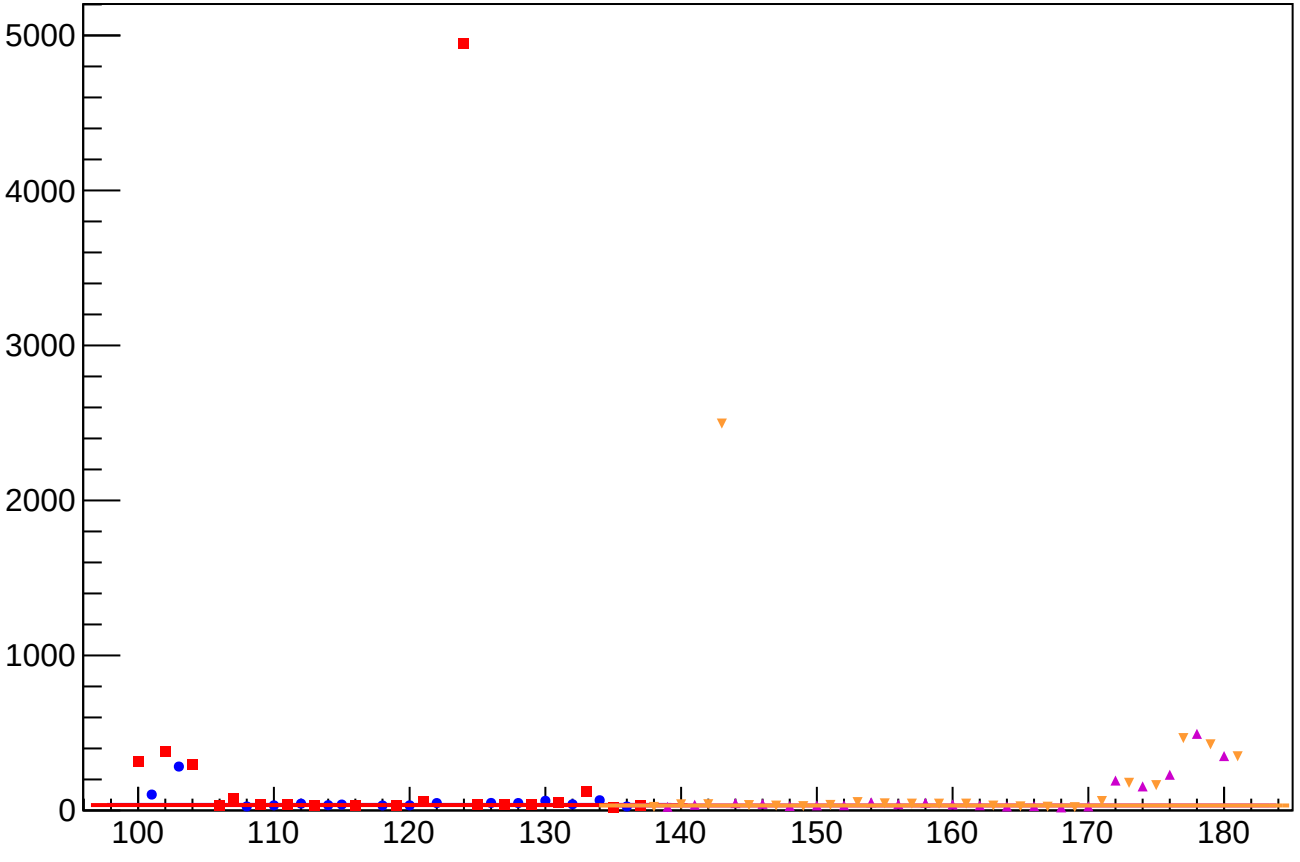
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.008 $\chi^2$/NDF:23.7/36

Out: -0.024+/-0.008 $\chi^2$/NDF:43.5/41

All: -0.005+/-0.006 $\chi^2$/NDF: 77.4/78

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 32.169+/-0.007 $\chi^2$/NDF:9393169.5/22

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 32.368+/-0.007 $\chi^2$/NDF:7423081.6/20

Left: 32.268+/-0.005 $\chi^2$/NDF: 16816688.0/43

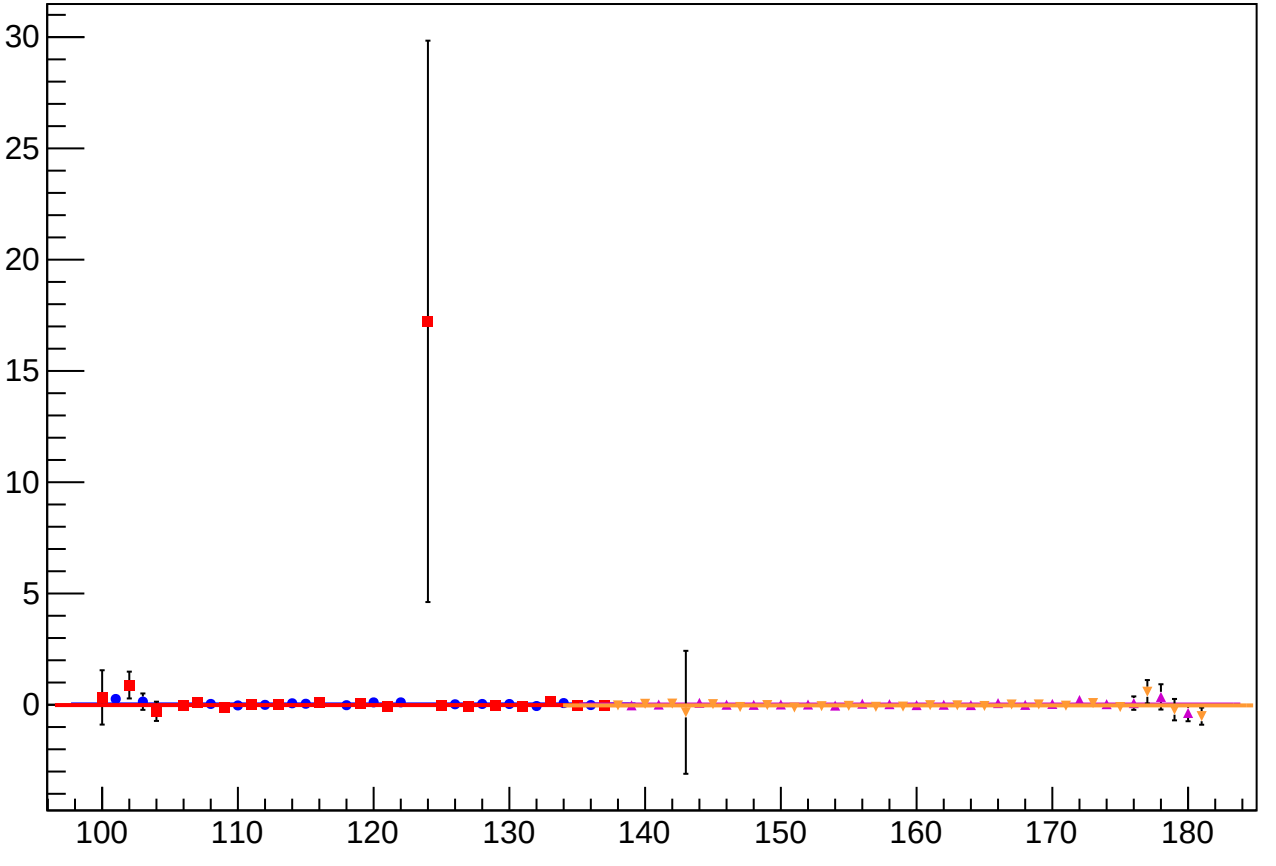
Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 33.295+/-0.006 $\chi^2$/NDF:9757078.9/36

Out: 32.881+/-0.006 $\chi^2$/NDF:12348572.1/41

All: 33.089+/-0.004 $\chi^2$/NDF: 22108250.6/78

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.028+/-0.010 $\chi^2$/NDF:26.9/22

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.011+/-0.010 $\chi^2$/NDF:12.1/20

Left: -0.008+/-0.007 $\chi^2$/NDF: 47.4/43

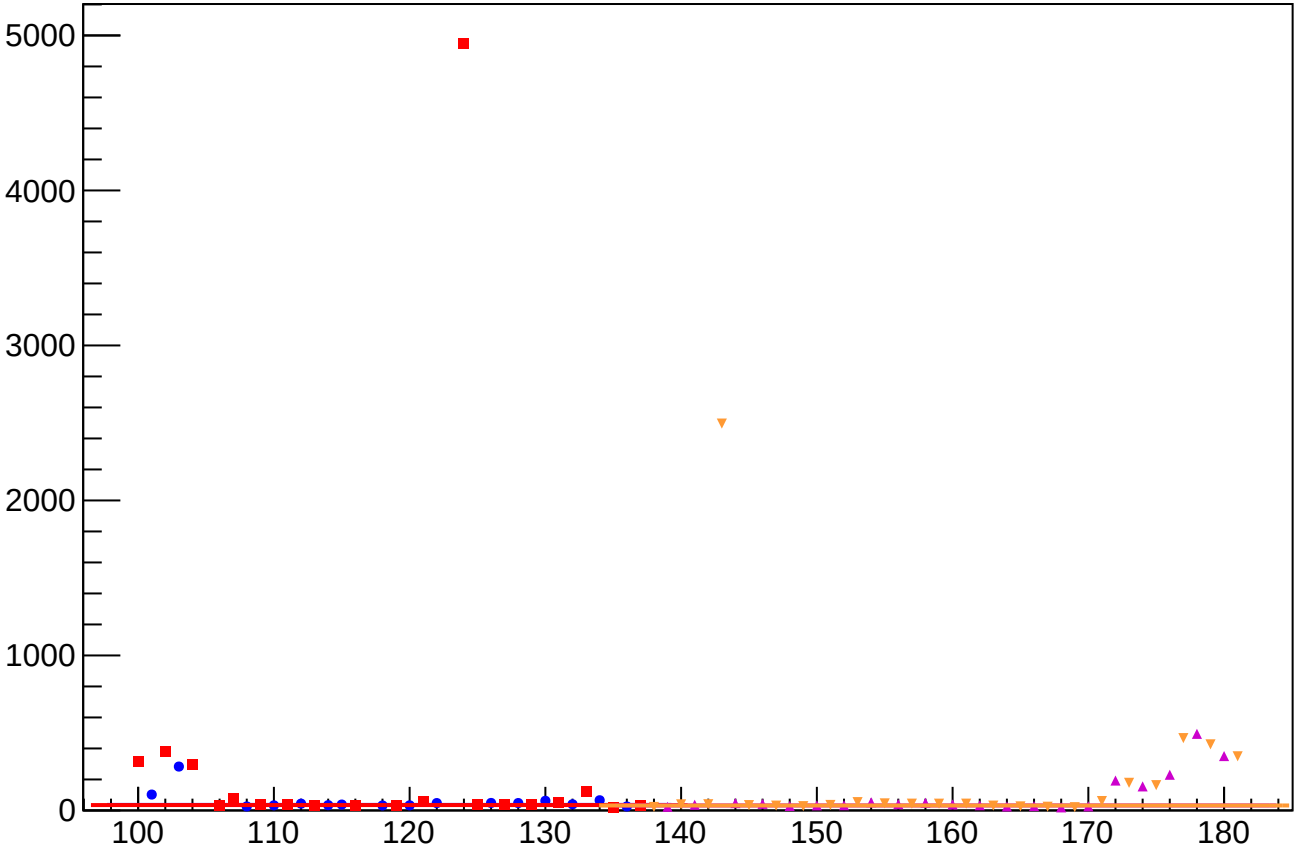
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.008 $\chi^2$/NDF:23.7/36

Out: -0.024+/-0.008 $\chi^2$/NDF:43.5/41

All: -0.005+/-0.006 $\chi^2$/NDF: 77.4/78

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 32.169+/-0.007 $\chi^2$/NDF:9393169.5/22

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 32.368+/-0.007 $\chi^2$/NDF:7423081.6/20

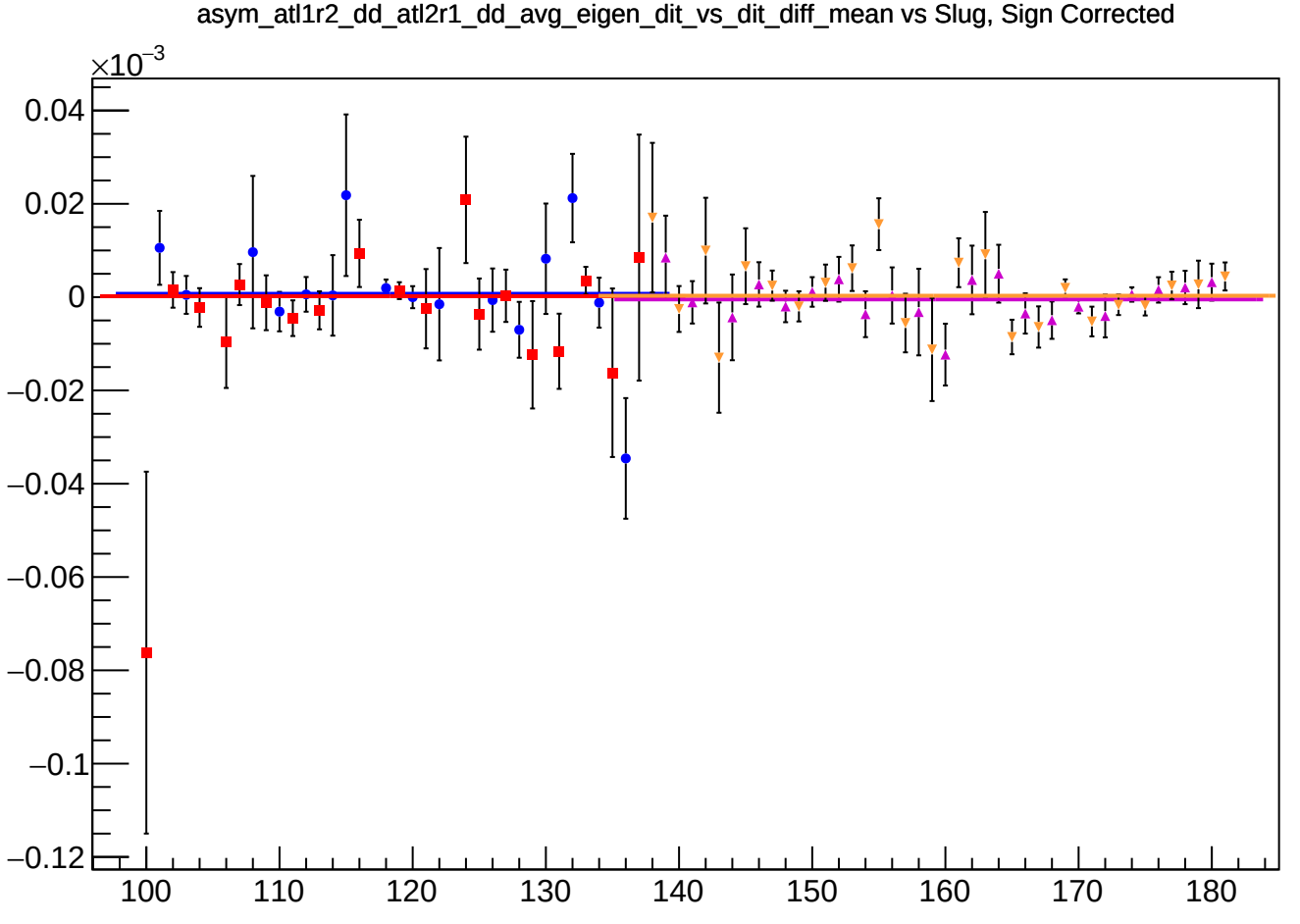
Left: 32.268+/-0.005 $\chi^2$/NDF: 16816688.0/43

Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 33.295+/-0.006 $\chi^2$/NDF:9757078.9/36

Out: 32.881+/-0.006 $\chi^2$/NDF:12348572.1/41

All: 33.089+/-0.004 $\chi^2$/NDF: 22108250.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:35.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.6/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 49.7/43

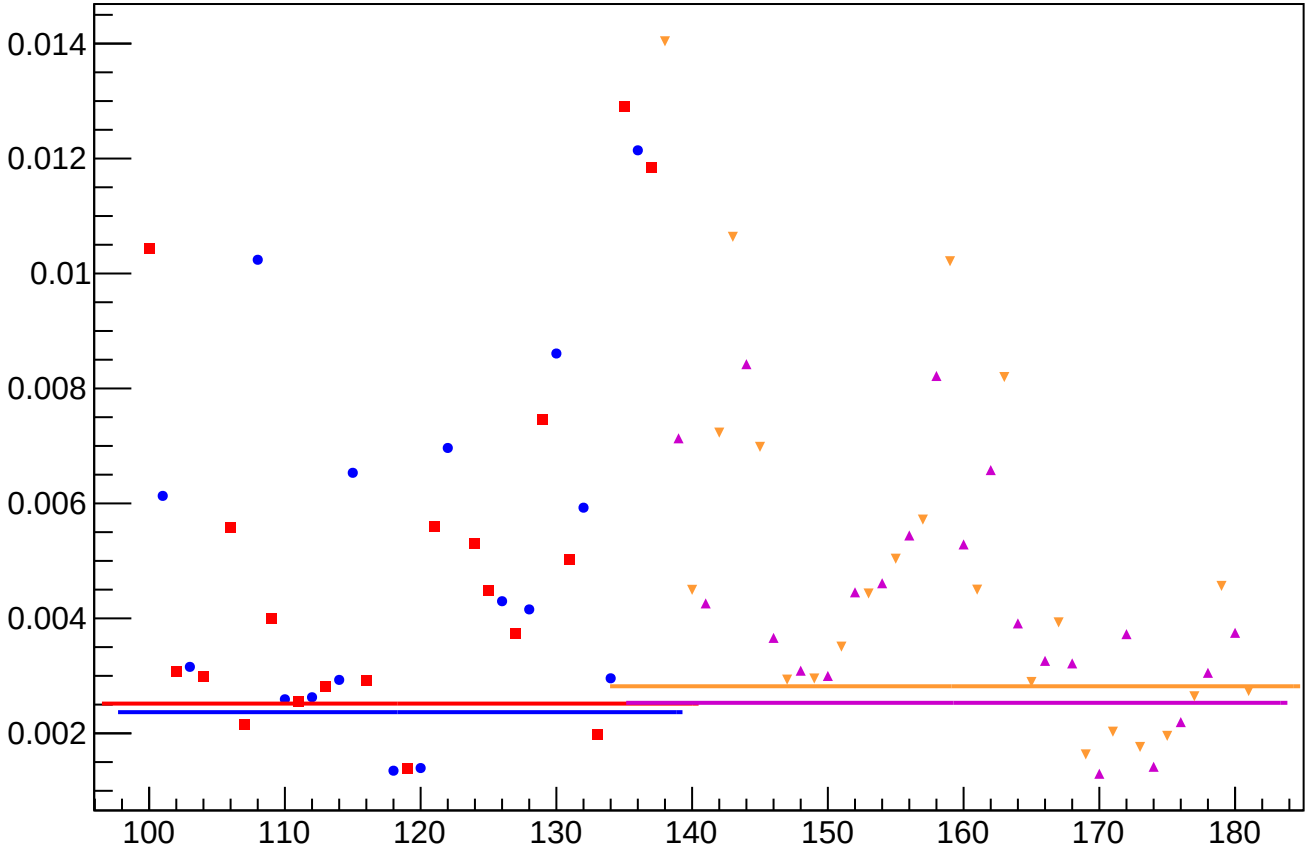
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:33.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:53.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 87.4/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4721602.1/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:7874548.3/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3397462.9/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:7812124.0/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 15832928.4/43

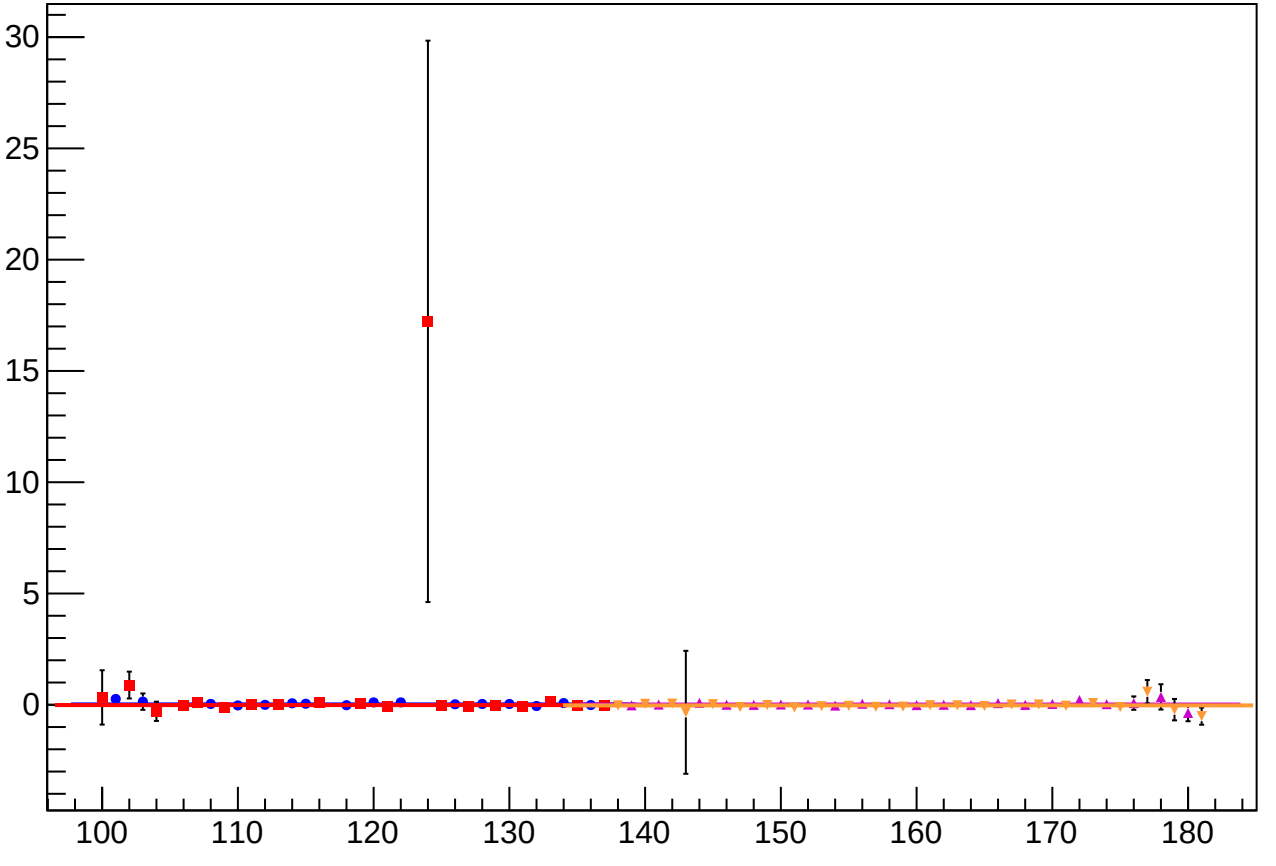
Right: 0.002+/-0.000 $\chi^2$/NDF: 8137943.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:12563618.9/36

Out: 0.003+/-0.000 $\chi^2$/NDF:11377566.1/41

All: 0.003+/-0.000 $\chi^2$/NDF: 24085528.5/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.028+/-0.010 $\chi^2$/NDF:26.9/22

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.011+/-0.010 $\chi^2$/NDF:12.1/20

Left: -0.008+/-0.007 $\chi^2$/NDF: 47.4/43

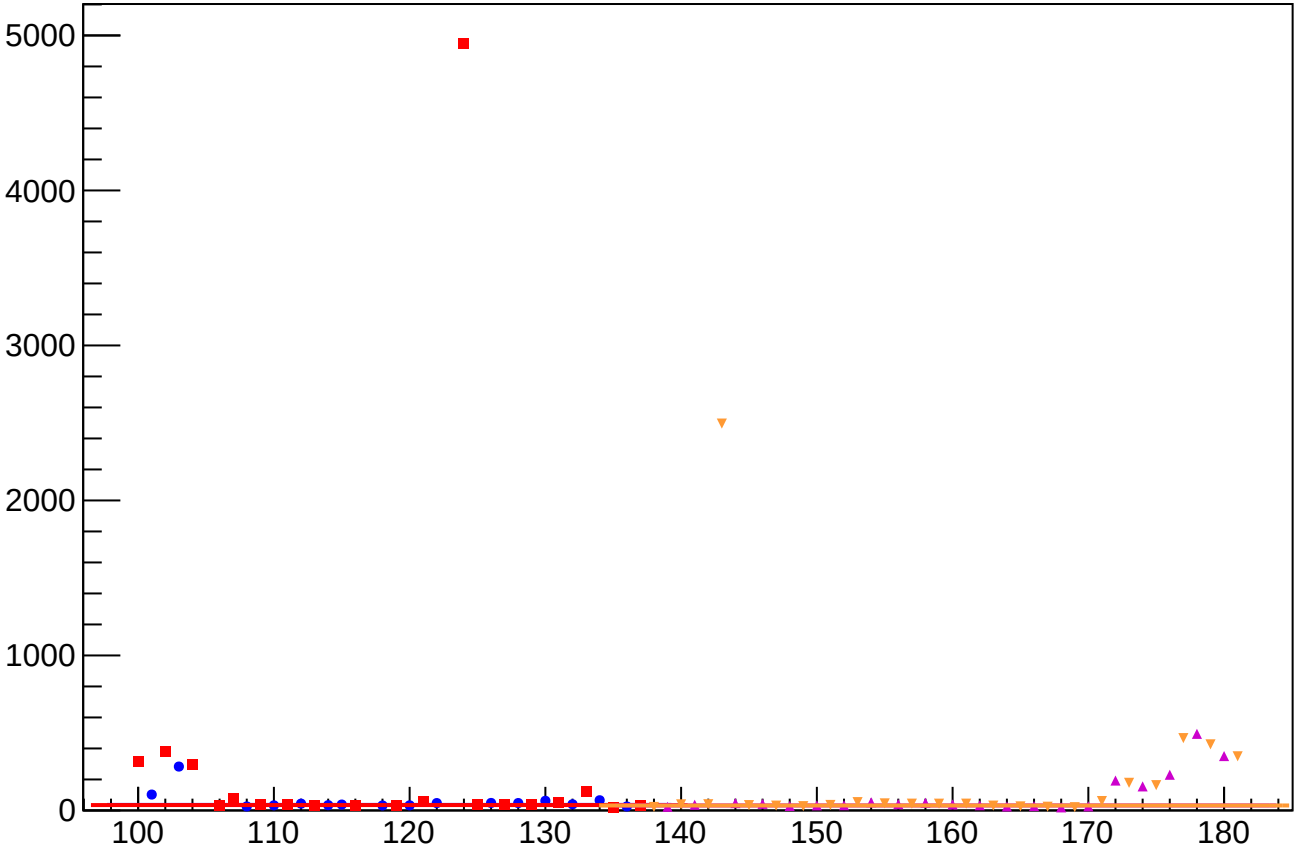
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.008 $\chi^2$/NDF:23.7/36

Out: -0.024+/-0.008 $\chi^2$/NDF:43.5/41

All: -0.005+/-0.006 $\chi^2$/NDF: 77.4/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 32.168+/-0.007 $\chi^2$/NDF:9393423.6/22

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 32.366+/-0.007 $\chi^2$/NDF:7423692.4/20

Left: 32.268+/-0.005 $\chi^2$/NDF: 16817548.1/43

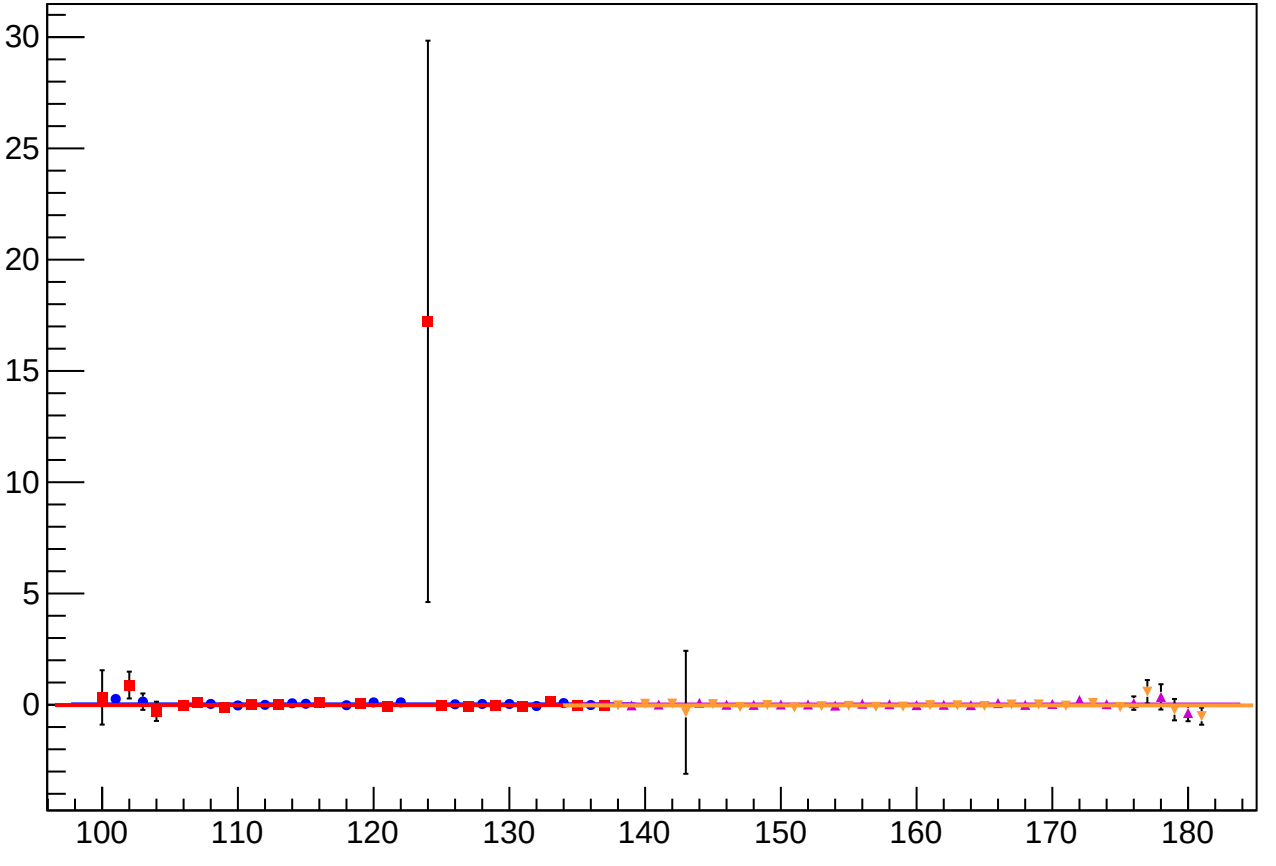
Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 33.294+/-0.006 $\chi^2$/NDF:9757526.8/36

Out: 32.881+/-0.006 $\chi^2$/NDF:12348686.4/41

All: 33.089+/-0.004 $\chi^2$/NDF: 22108804.4/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.015 $\chi^2$/NDF: 11.5/15

Left Out: -0.028+/-0.010 $\chi^2$/NDF:26.9/22

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.011+/-0.010 $\chi^2$/NDF:12.1/20

Left: -0.008+/-0.007 $\chi^2$/NDF: 47.4/43

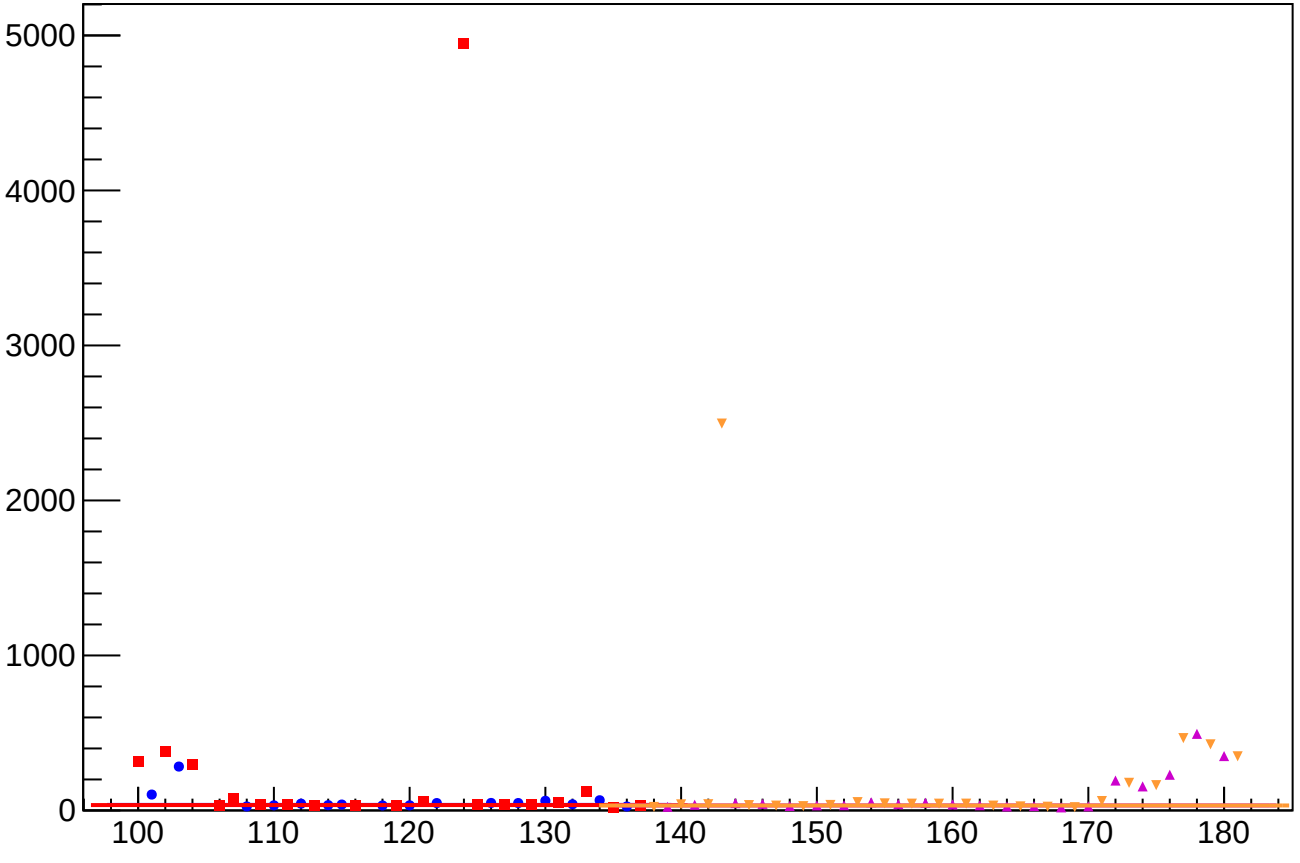
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.008 $\chi^2$/NDF:23.7/36

Out: -0.024+/-0.008 $\chi^2$/NDF:43.5/41

All: -0.005+/-0.006 $\chi^2$/NDF: 77.4/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 32.168+/-0.007 $\chi^2$/NDF:9393423.6/22

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 32.366+/-0.007 $\chi^2$/NDF:7423692.4/20

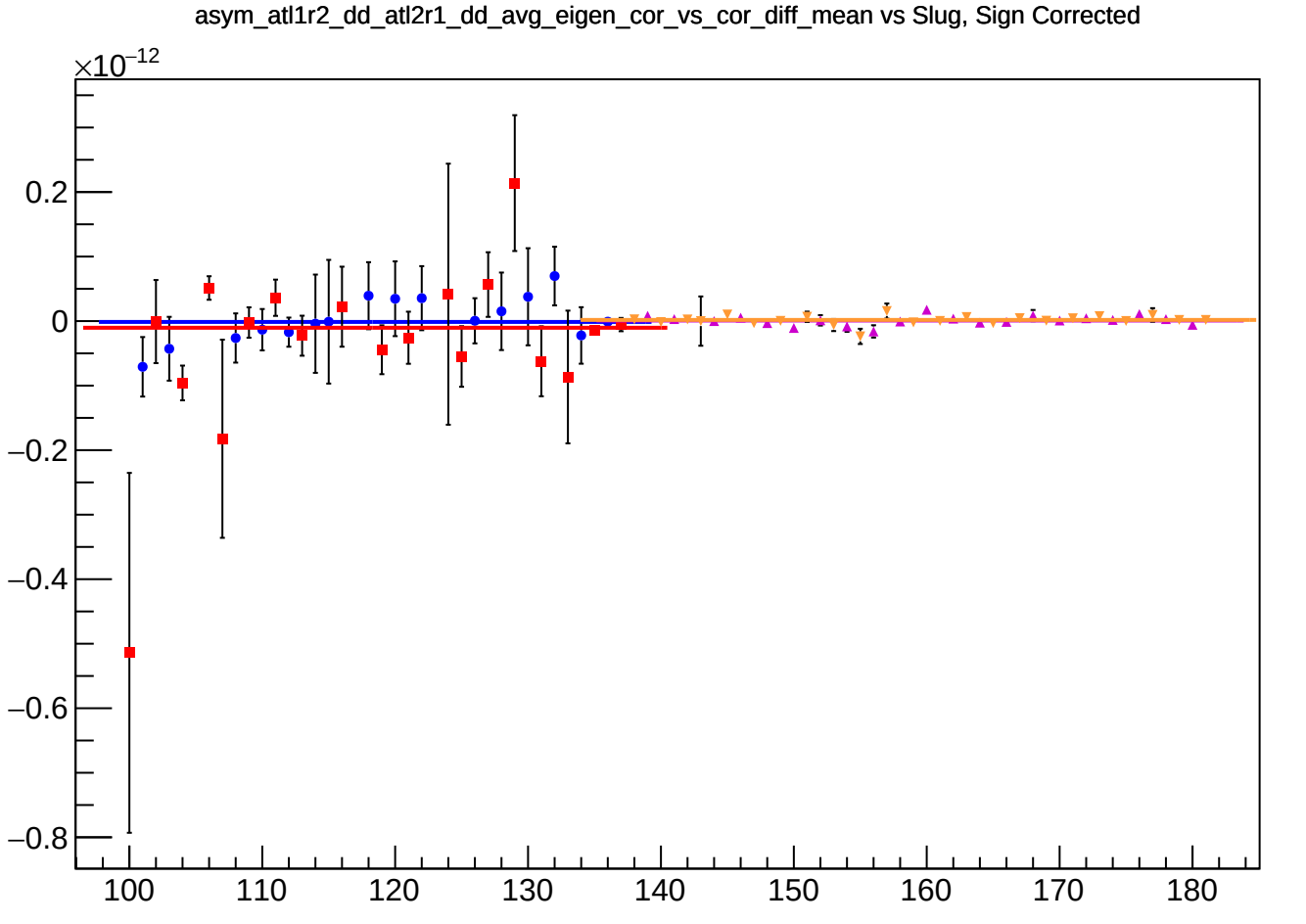
Left: 32.268+/-0.005 $\chi^2$/NDF: 16817548.1/43

Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 33.294+/-0.006 $\chi^2$/NDF:9757526.8/36

Out: 32.881+/-0.006 $\chi^2$/NDF:12348686.4/41

All: 33.089+/-0.004 $\chi^2$/NDF: 22108804.4/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.5/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 39.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.5/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 43.4/43

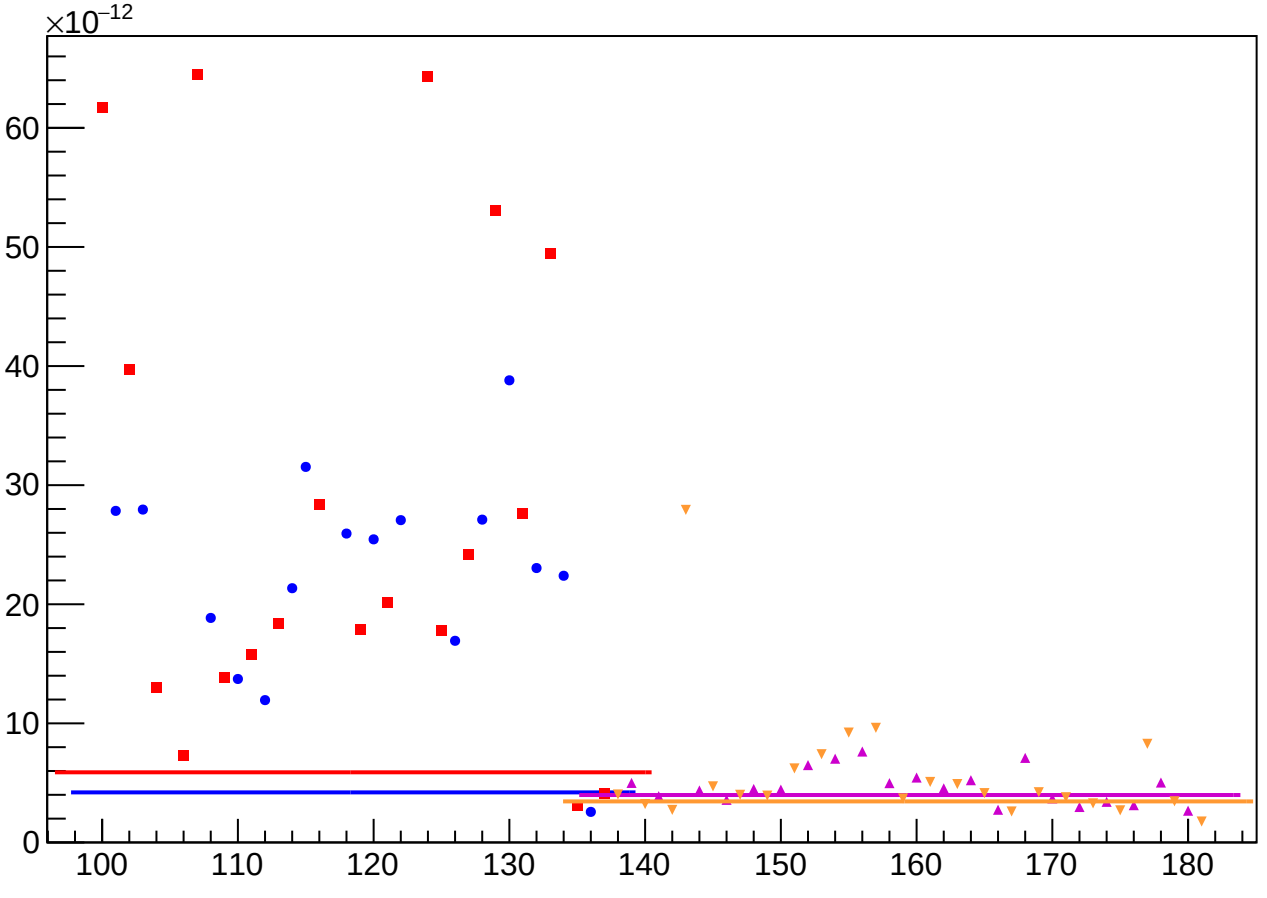
Right: -0.000+/-0.000 $\chi^2$/NDF: 51.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:36.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:63.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 99.9/78

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5080225.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4564814.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4860861.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2055609.6/20

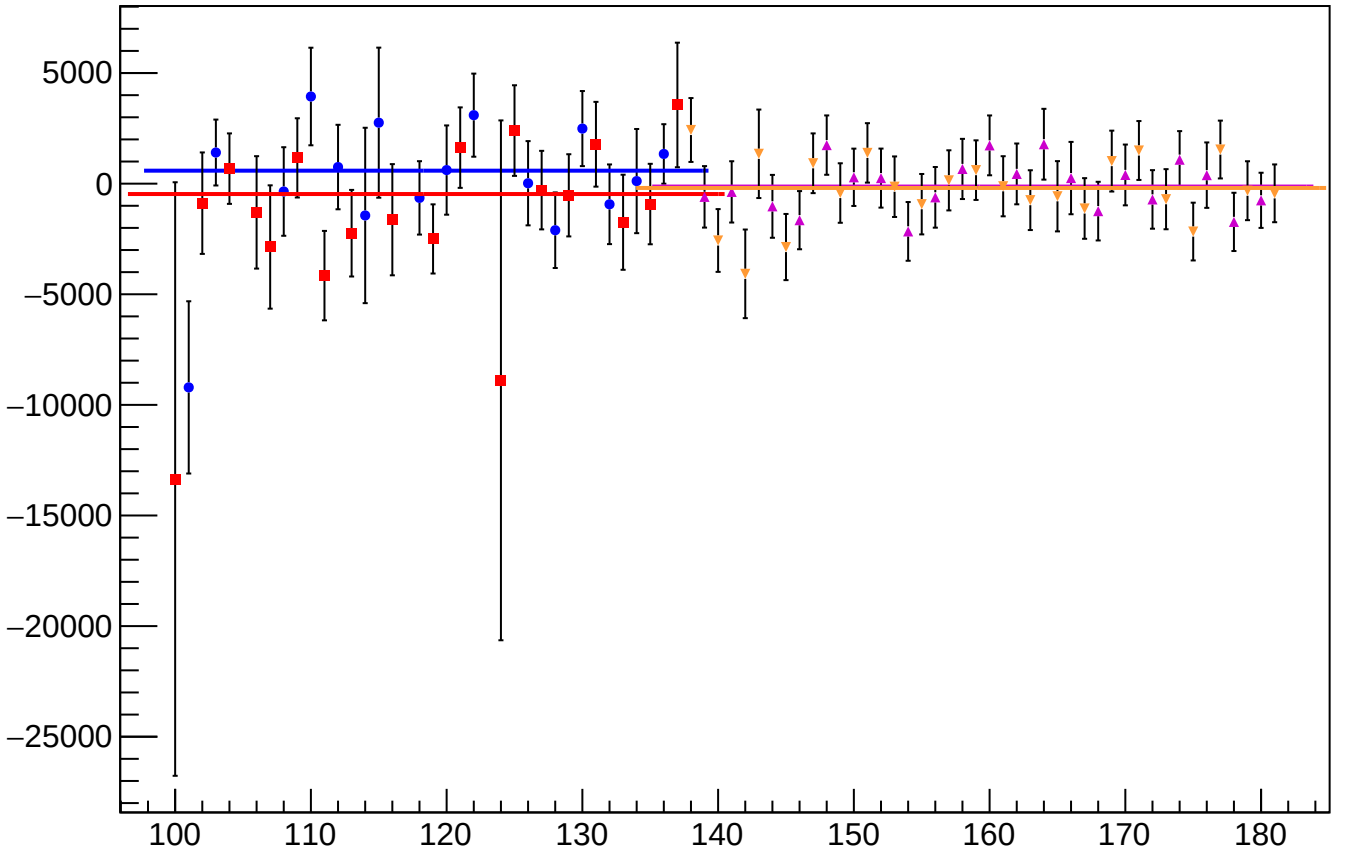
Left: 0.000+/-0.000 $\chi^2$/NDF: 6844696.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 10135954.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:7143253.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:10067692.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 17354309.1/78




Right In: 586.935+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -194.419+/-292.158 $\chi^2$/NDF:23.8/22

Right Out: -469.012+/-480.516 $\chi^2$/NDF: 16.9/18

Left In: -130.678+/-298.110 $\chi^2$/NDF:14.1/20

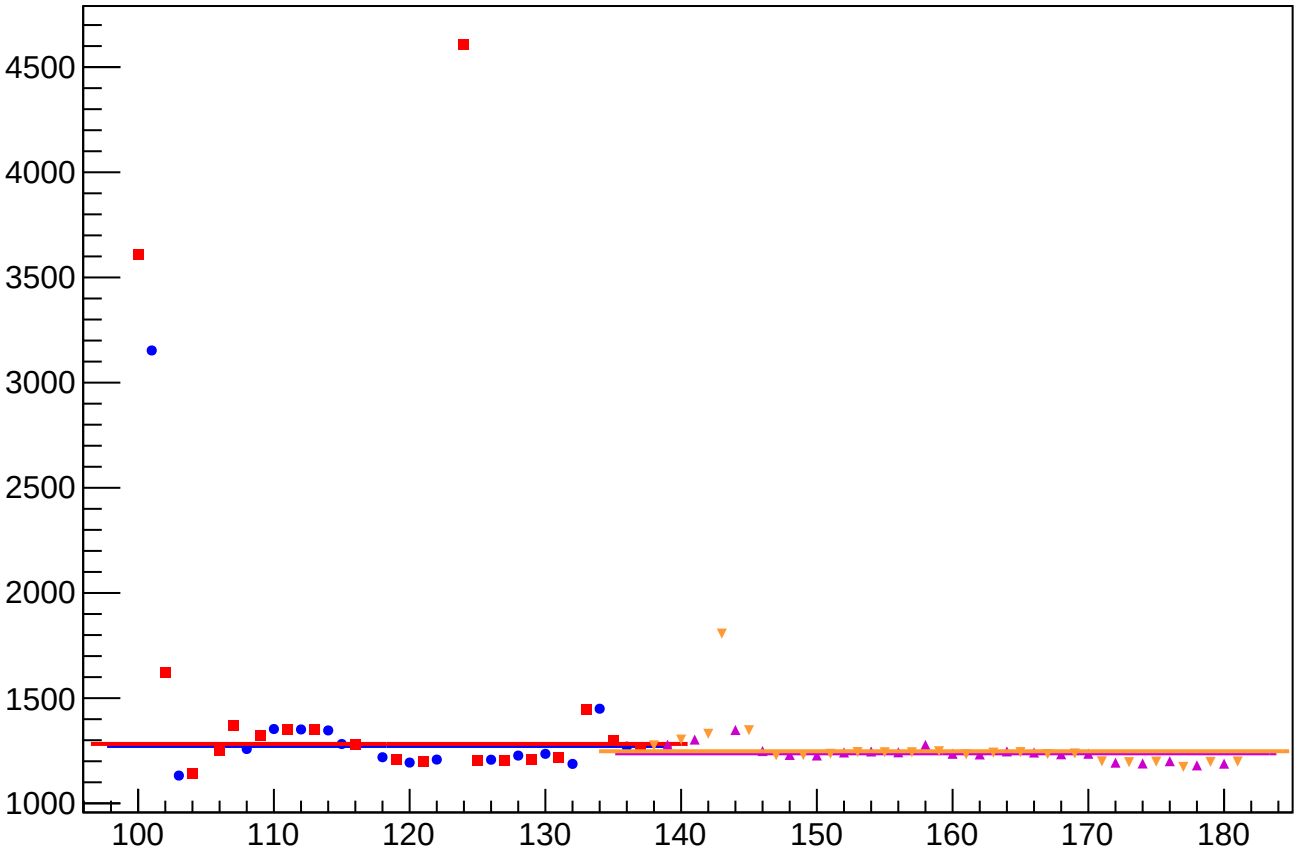
Left: -163.191+/-208.659 $\chi^2$/NDF: 37.9/43

Right: 56.858+/-340.452 $\chi^2$/NDF: 36.3/34

In: 67.617+/-253.599 $\chi^2$/NDF:32.8/36

Out: -268.532+/-249.637 $\chi^2$/NDF:40.8/41

All: -103.104+/-177.904 $\chi^2$/NDF: 74.6/78




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519298.2/15

Left Out: 1247.563+/-0.207 $\chi^2$/NDF:194718.0/22

Right Out: 1282.365+/-0.340 $\chi^2$/NDF: 322078.6/18

Left In: 1237.704+/-0.211 $\chi^2$/NDF:33897.0/20

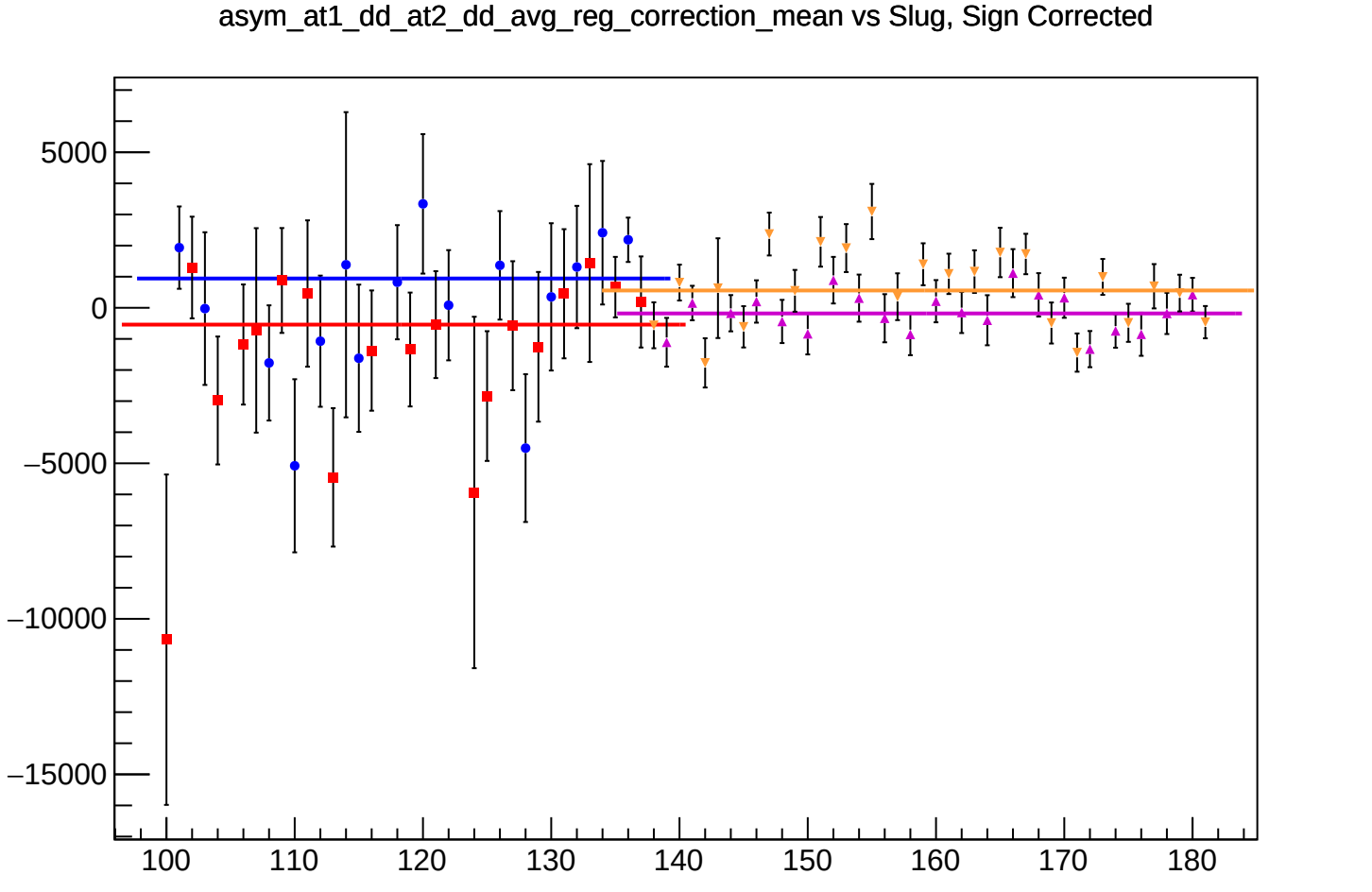
Left: 1242.733+/-0.148 $\chi^2$/NDF: 229730.9/43

Right: 1277.604+/-0.241 $\chi^2$/NDF: 841771.1/34

In: 1247.403+/-0.179 $\chi^2$/NDF:560856.9/36

Out: 1256.956+/-0.177 $\chi^2$/NDF:524456.1/41

All: 1252.255+/-0.126 $\chi^2$/NDF: 1086754.4/78




Right In: 941.759+/-425.837 $\chi^2$/NDF: 19.9/15

Left Out: 556.906+/-142.043 $\chi^2$/NDF:65.5/22

Right Out: -540.622+/-439.905 $\chi^2$/NDF: 17.2/18

Left In: -181.815+/-144.242 $\chi^2$/NDF:18.4/20

Left: 193.220+/-101.208 $\chi^2$/NDF: 97.2/43

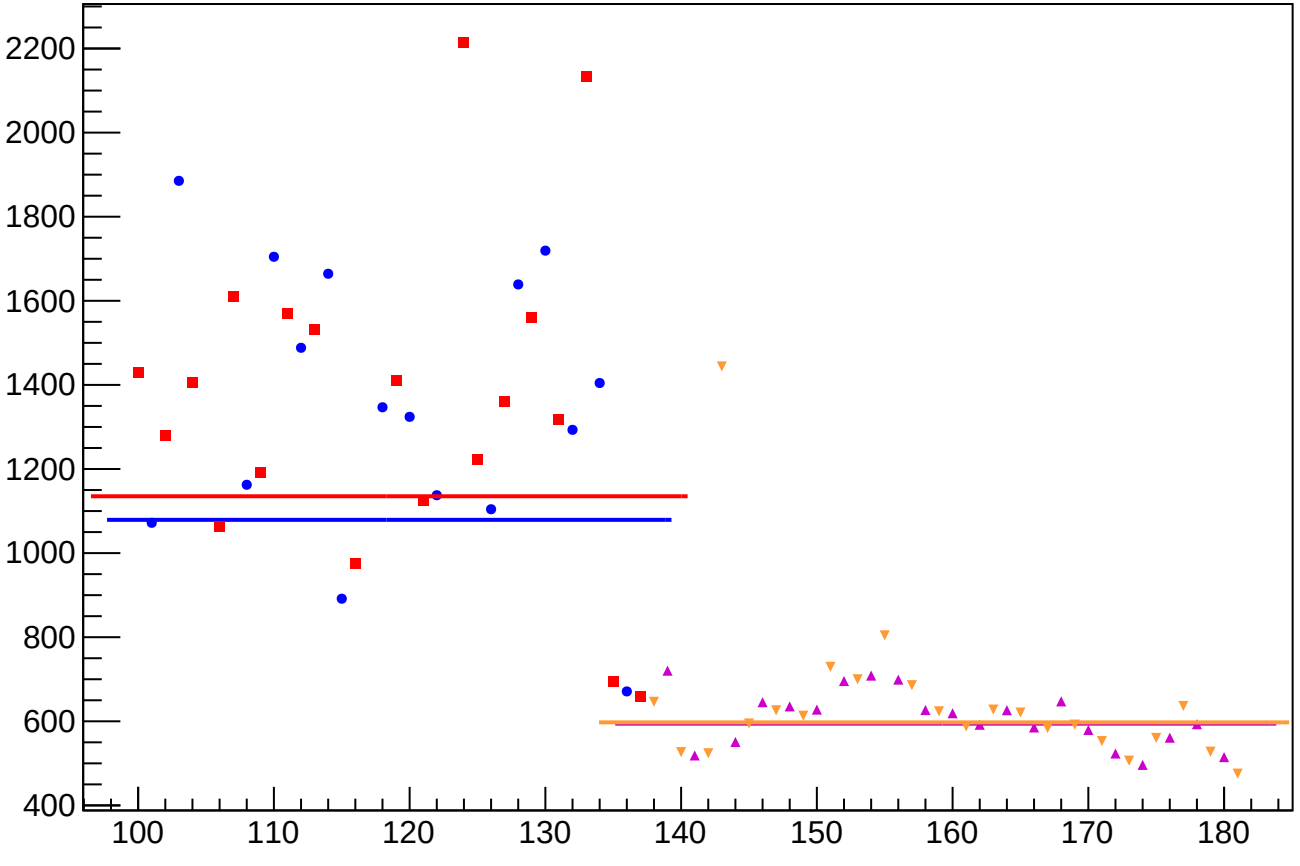
Right: 224.651+/-305.965 $\chi^2$/NDF: 42.9/34

In: -66.170+/-136.618 $\chi^2$/NDF:44.6/36

Out: 453.281+/-135.171 $\chi^2$/NDF:88.3/41

All: 196.320+/-96.088 $\chi^2$/NDF: 140.2/78

asym_at1_dd_at2_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1079.120+/-0.301 $\chi^2$/NDF: 1482232.0/15

Left Out: 597.476+/-0.100 $\chi^2$/NDF:1066558.4/22

Right Out: 1135.161+/-0.311 $\chi^2$/NDF: 1293082.2/18

Left In: 594.333+/-0.102 $\chi^2$/NDF:409041.5/20

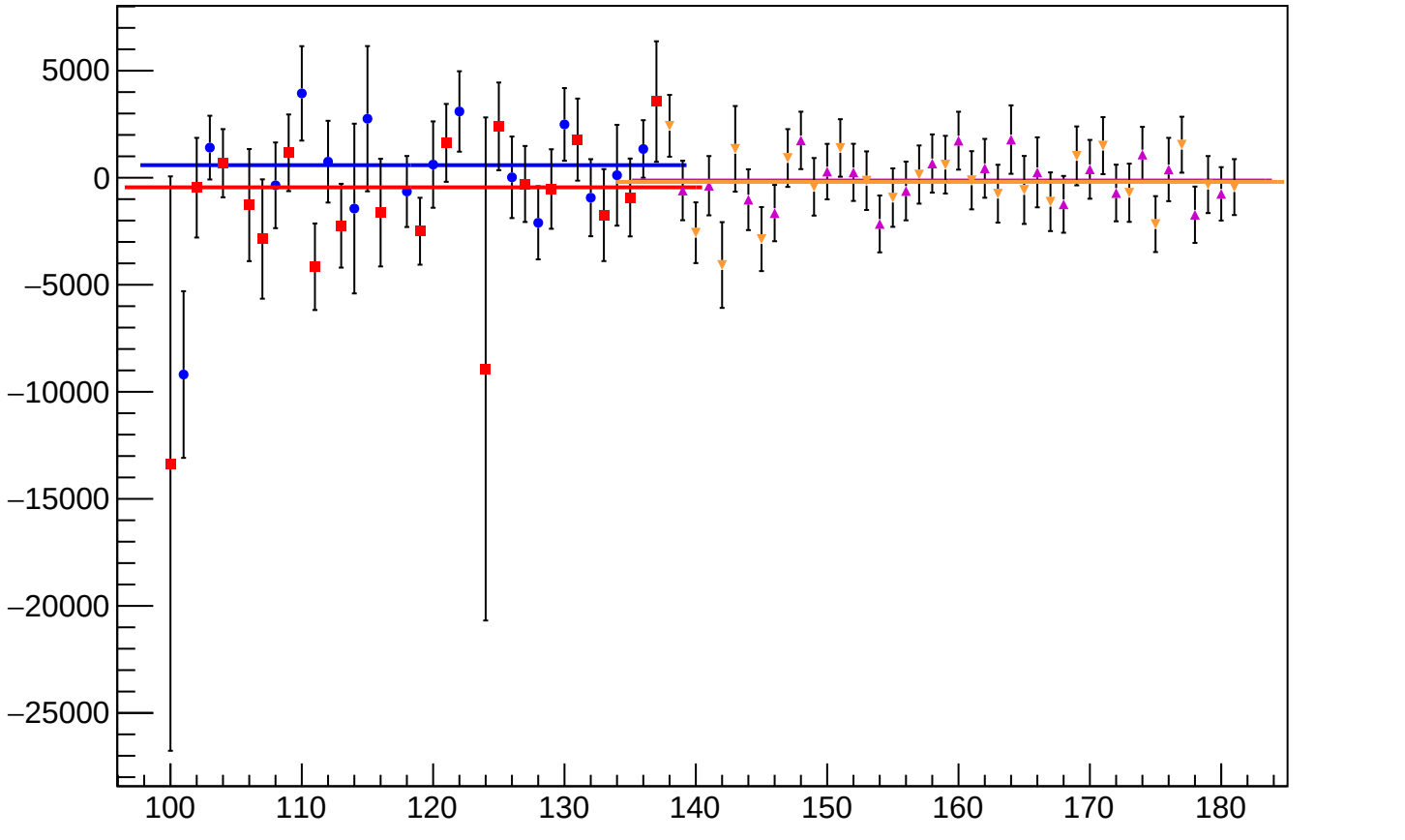
Left: 595.928+/-0.072 $\chi^2$/NDF: 1476082.0/43

Right: 1106.230+/-0.216 $\chi^2$/NDF: 2792070.7/34

In: 644.230+/-0.097 $\chi^2$/NDF:4216545.8/36

Out: 648.242+/-0.096 $\chi^2$/NDF:5065446.6/41

All: 646.257+/-0.068 $\chi^2$/NDF: 9282864.1/78




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -194.468+/-292.158 $\chi^2$/NDF:23.8/22

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -130.707+/-298.110 $\chi^2$/NDF:14.1/20

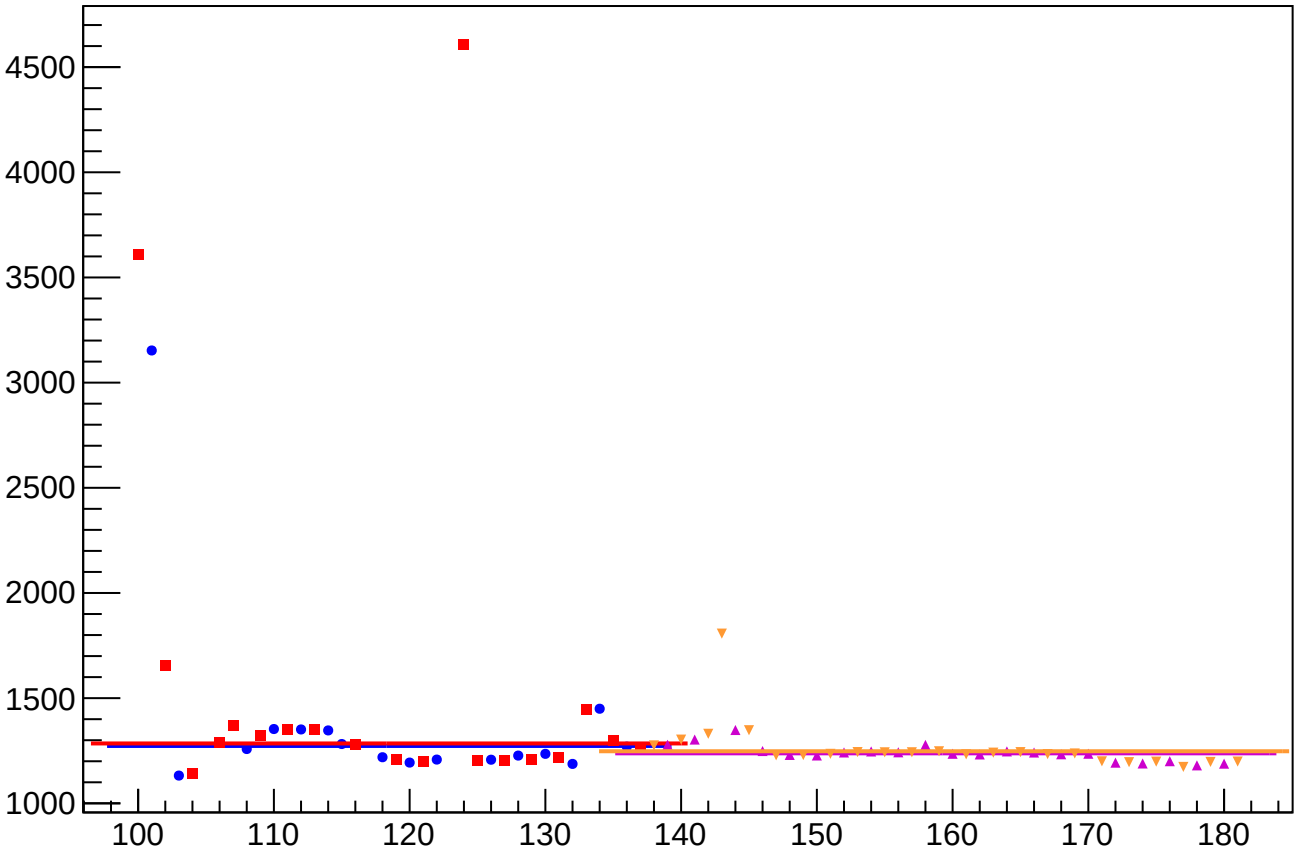
Left: -163.230+/-208.659 $\chi^2$/NDF: 37.9/43

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 67.684+/-253.599 $\chi^2$/NDF:32.8/36

Out: -262.838+/-249.751 $\chi^2$/NDF:40.8/41

All: -100.103+/-177.946 $\chi^2$/NDF: 74.4/78




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1247.563+/-0.207 $\chi^2$/NDF:194718.0/22

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1237.704+/-0.211 $\chi^2$/NDF:33897.0/20

Left: 1242.733+/-0.148 $\chi^2$/NDF: 229730.9/43

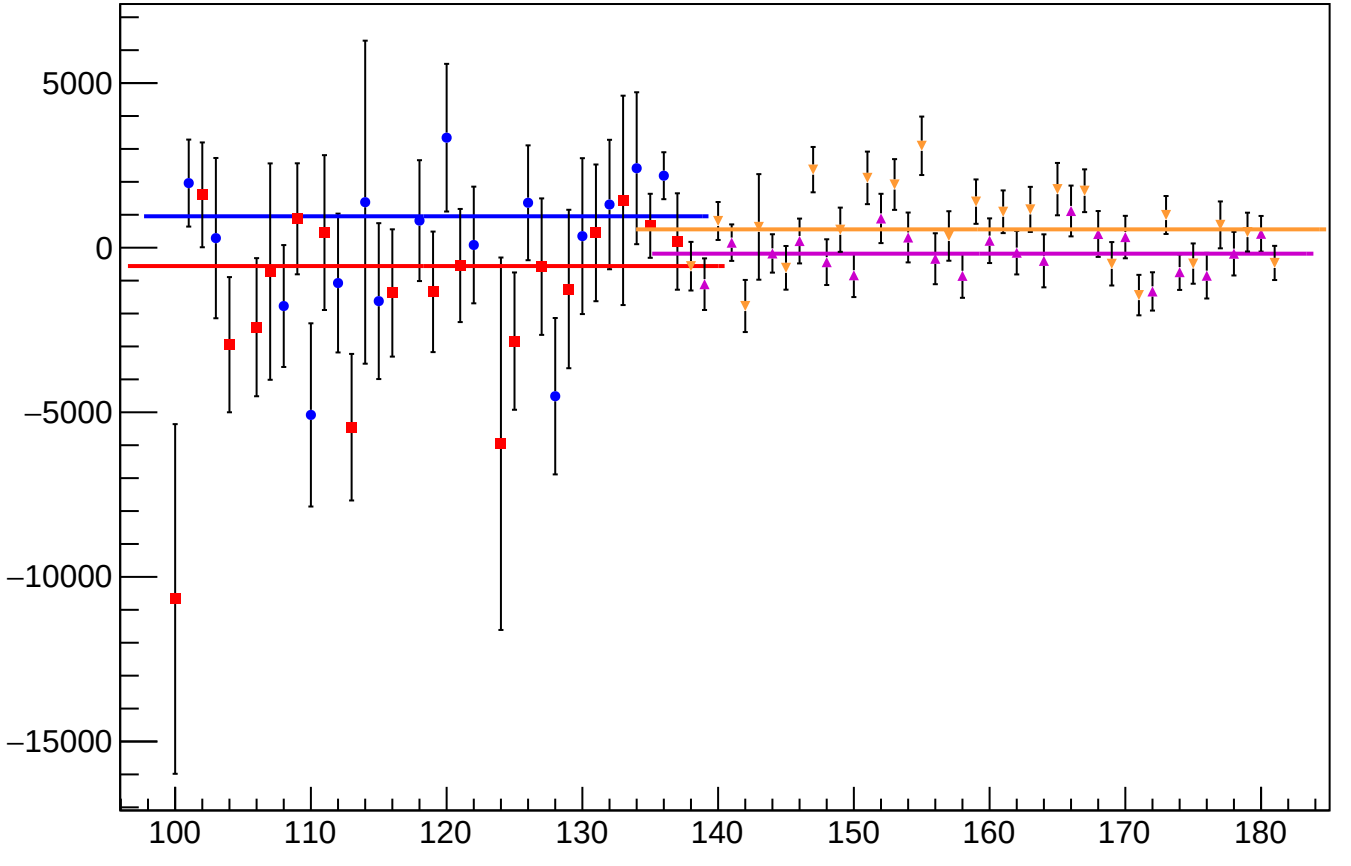
Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1247.403+/-0.179 $\chi^2$/NDF:560858.2/36

Out: 1257.549+/-0.177 $\chi^2$/NDF:532131.7/41

All: 1252.554+/-0.126 $\chi^2$/NDF: 1094615.1/78

asym_at1_dd_at2_dd_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: 556.880+/-142.044 $\chi^2$/NDF:65.5/22

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -181.785+/-144.242 $\chi^2$/NDF:18.4/20

Left: 193.218+/-101.208 $\chi^2$/NDF: 97.2/43

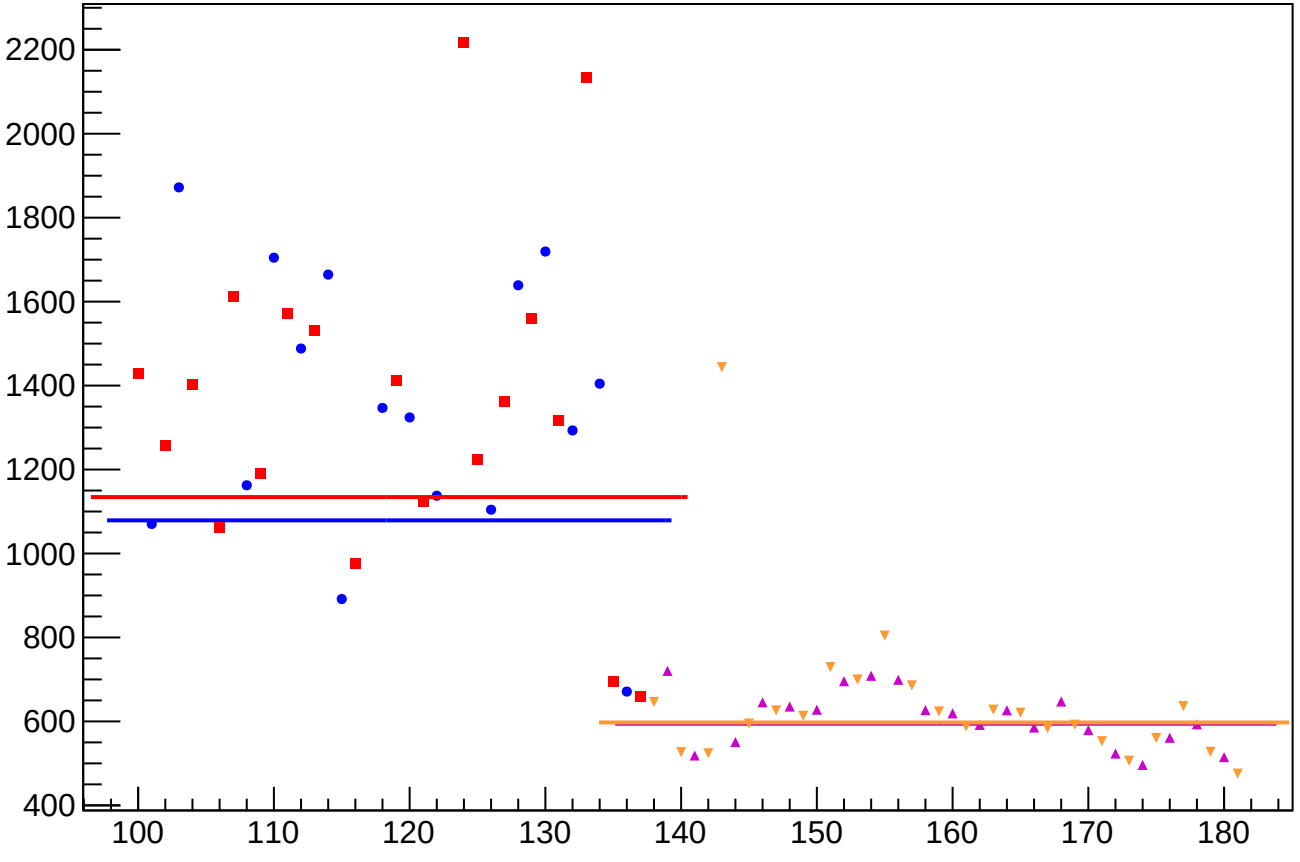
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: -64.782+/-136.611 $\chi^2$/NDF:44.7/36

Out: 451.990+/-135.196 $\chi^2$/NDF:89.7/41

All: 196.294+/-96.095 $\chi^2$/NDF: 141.6/78

asym_at1_dd_at2_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1078.932+/-0.301 $\chi^2$/NDF: 1478719.9/15

Left Out: 597.480+/-0.100 $\chi^2$/NDF:1066475.2/22

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 594.330+/-0.102 $\chi^2$/NDF:409059.0/20

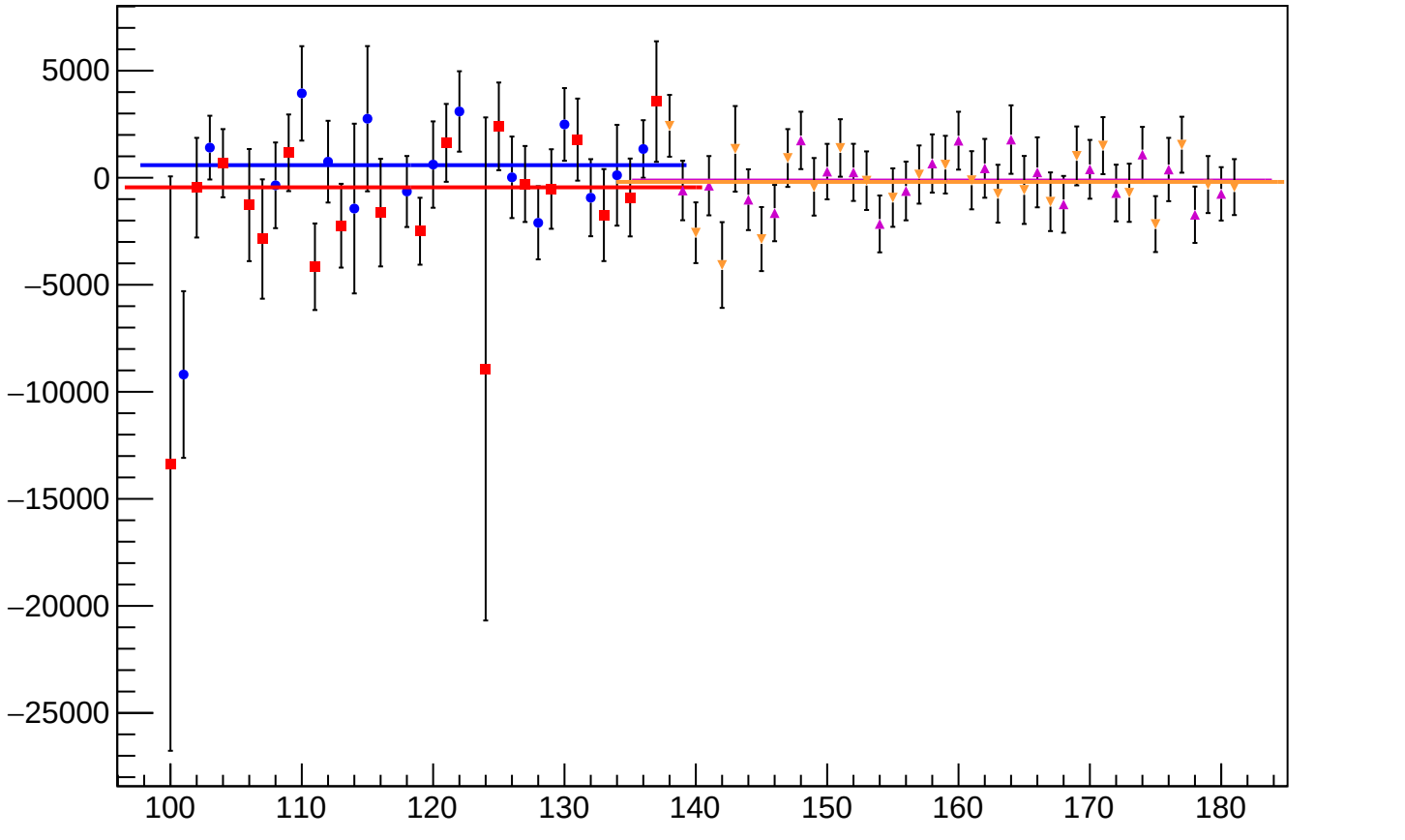
Left: 595.929+/-0.072 $\chi^2$/NDF: 1476018.5/43

Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 644.245+/-0.097 $\chi^2$/NDF:4213006.8/36

Out: 648.000+/-0.096 $\chi^2$/NDF:5044311.2/41

All: 646.142+/-0.068 $\chi^2$/NDF: 9258081.3/78




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -194.468+/-292.158 $\chi^2$/NDF:23.8/22

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -130.707+/-298.110 $\chi^2$/NDF:14.1/20

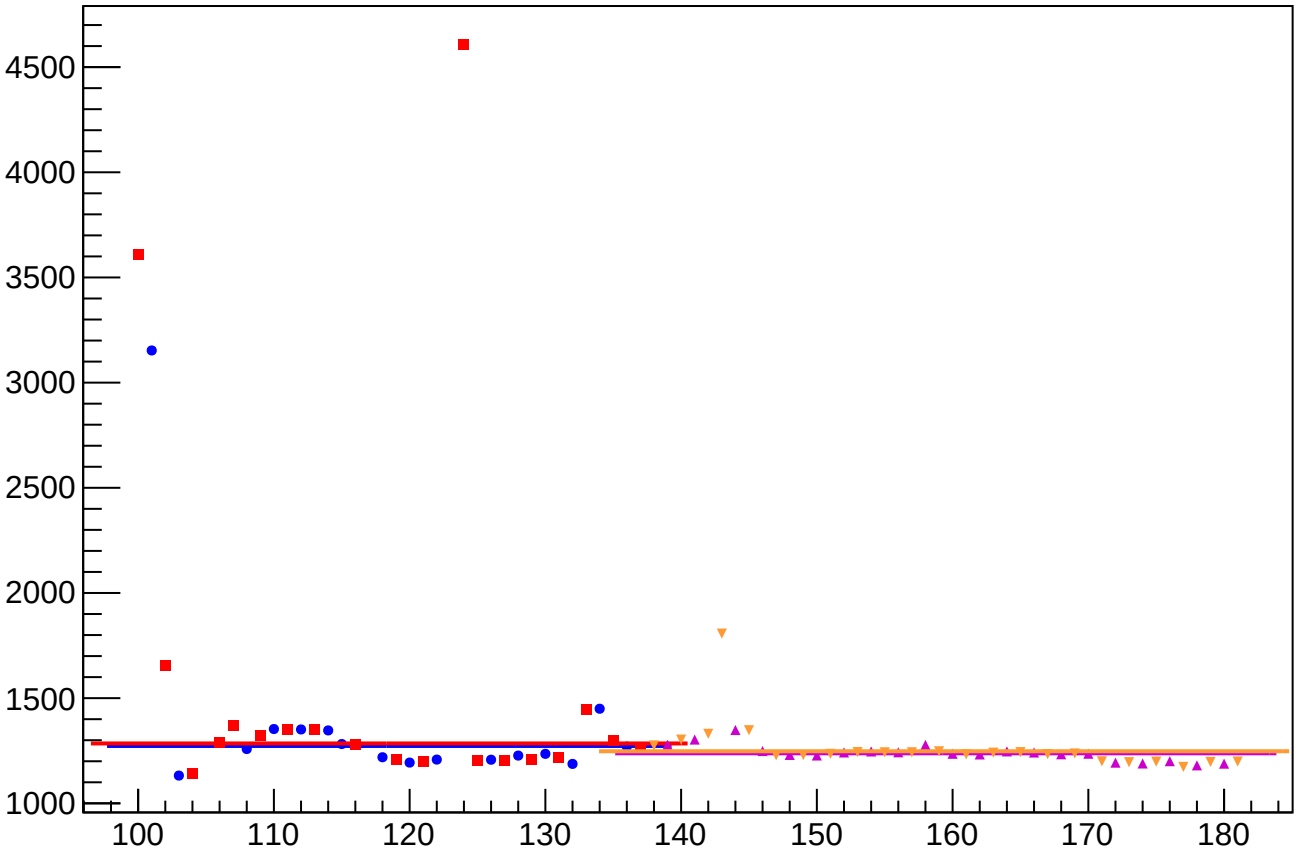
Left: -163.230+/-208.659 $\chi^2$/NDF: 37.9/43

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 67.684+/-253.599 $\chi^2$/NDF:32.8/36

Out: -262.838+/-249.751 $\chi^2$/NDF:40.8/41

All: -100.103+/-177.946 $\chi^2$/NDF: 74.4/78




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1247.563+/-0.207 $\chi^2$/NDF:194718.0/22

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1237.704+/-0.211 $\chi^2$/NDF:33897.0/20

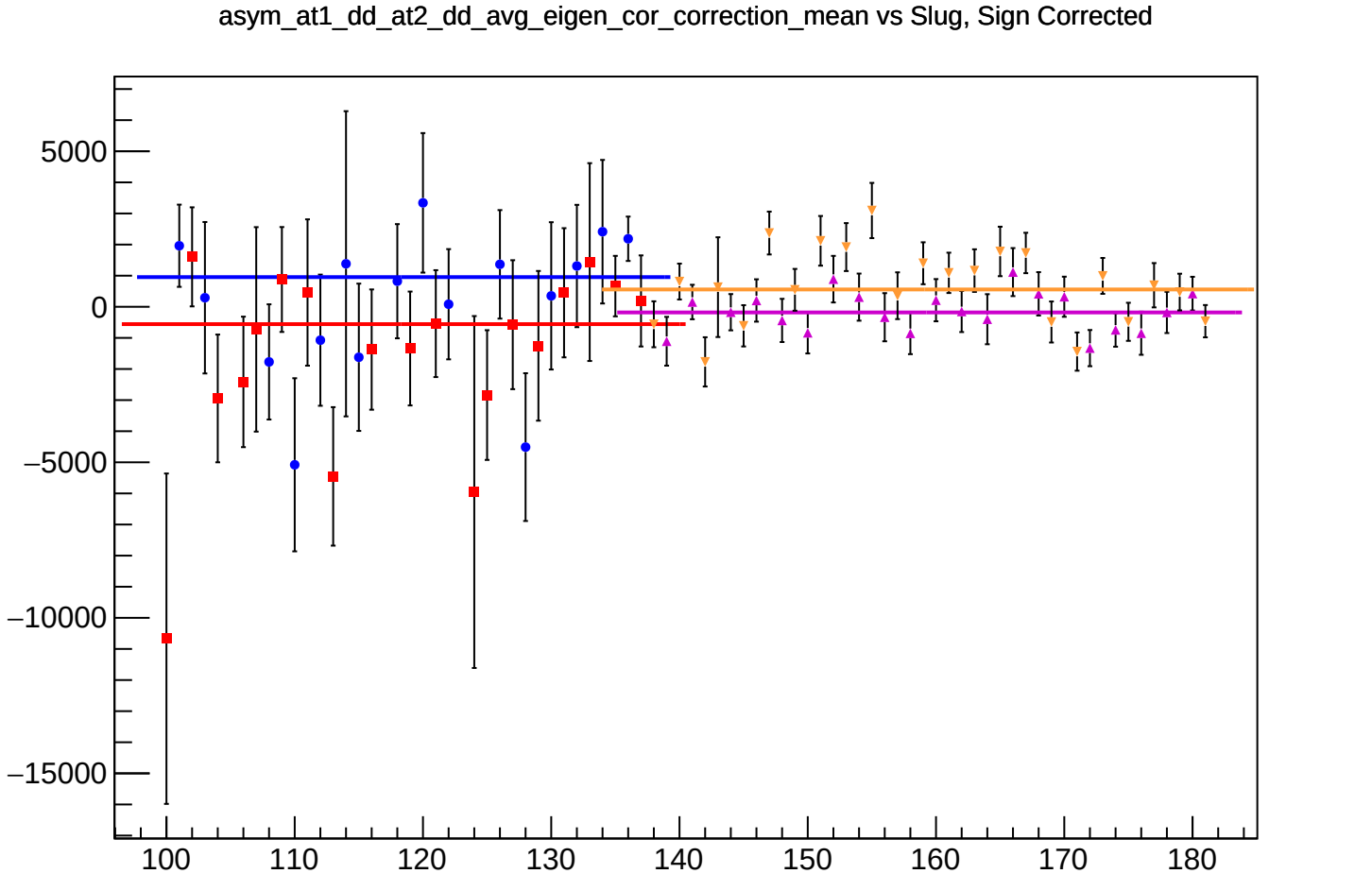
Left: 1242.733+/-0.148 $\chi^2$/NDF: 229730.9/43

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1247.403+/-0.179 $\chi^2$/NDF:560858.2/36

Out: 1257.549+/-0.177 $\chi^2$/NDF:532131.7/41

All: 1252.554+/-0.126 $\chi^2$/NDF: 1094615.1/78




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: 556.880+/-142.044 $\chi^2$/NDF:65.5/22

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -181.785+/-144.242 $\chi^2$/NDF:18.4/20

Left: 193.218+/-101.208 $\chi^2$/NDF: 97.2/43

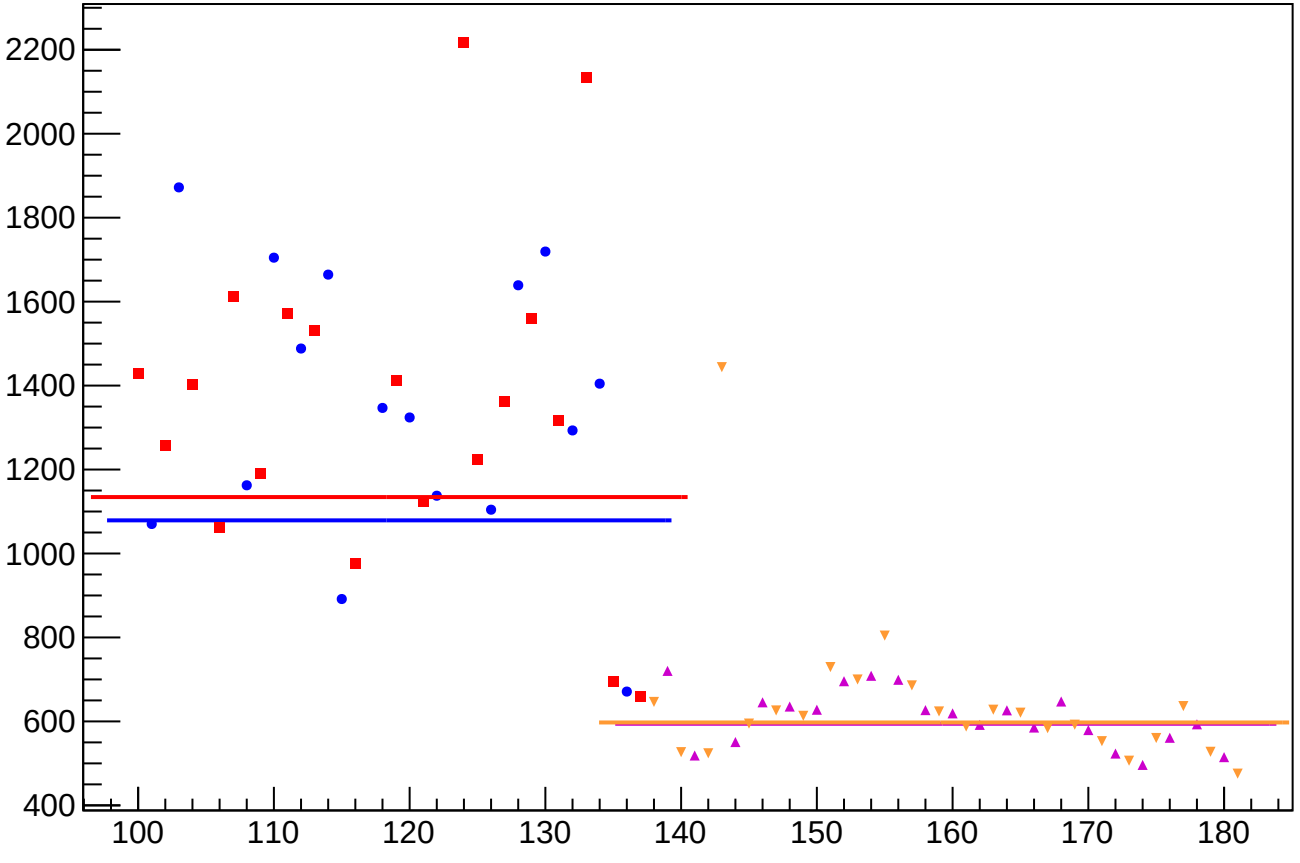
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: -64.782+/-136.611 $\chi^2$/NDF:44.7/36

Out: 451.990+/-135.196 $\chi^2$/NDF:89.7/41

All: 196.294+/-96.095 $\chi^2$/NDF: 141.6/78

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1078.932+/-0.301 $\chi^2$/NDF: 1478719.9/15

Left Out: 597.480+/-0.100 $\chi^2$/NDF:1066475.2/22

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 594.330+/-0.102 $\chi^2$/NDF:409059.0/20

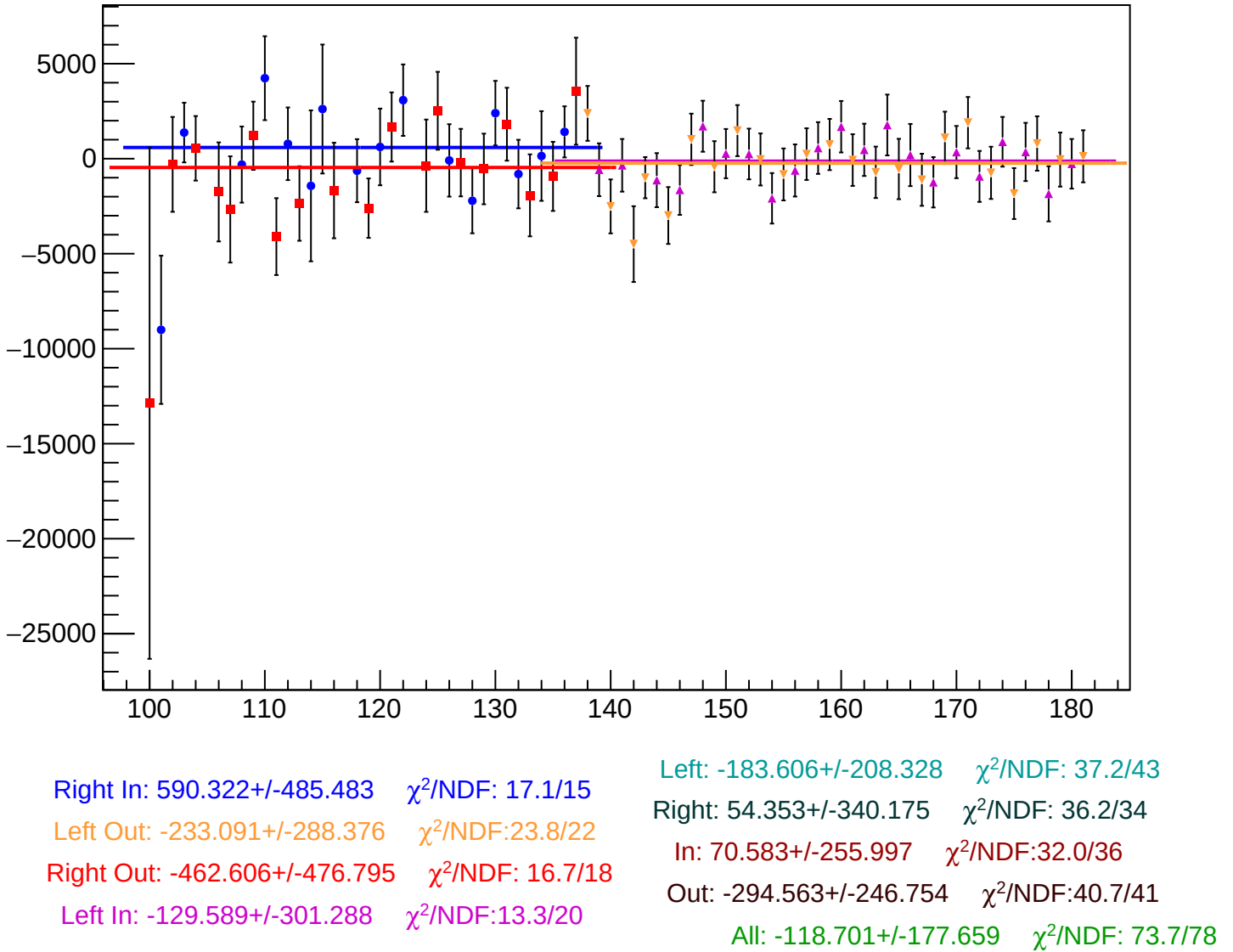
Left: 595.929+/-0.072 $\chi^2$/NDF: 1476018.5/43

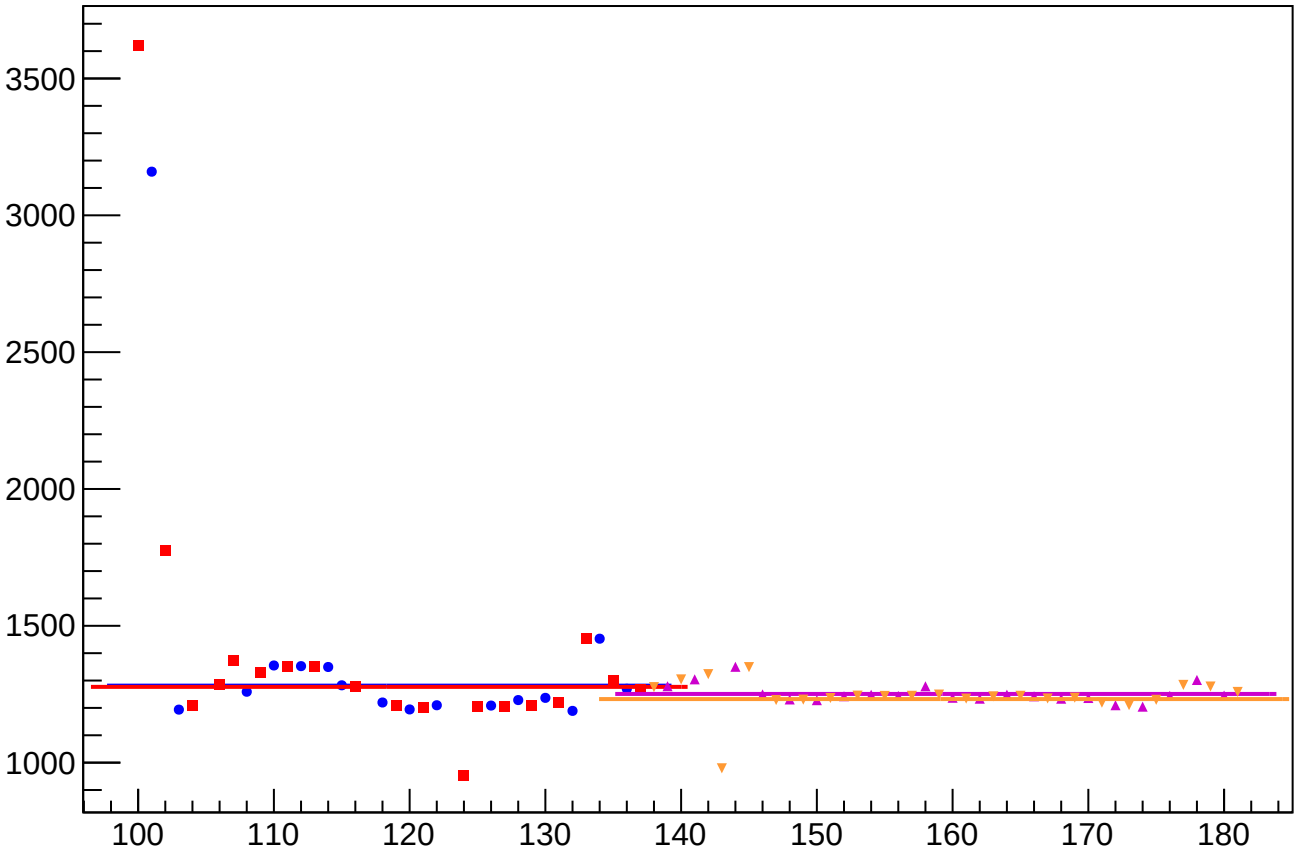
Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 644.245+/-0.097 $\chi^2$/NDF:4213006.8/36

Out: 648.000+/-0.096 $\chi^2$/NDF:5044311.2/41

All: 646.142+/-0.068 $\chi^2$/NDF: 9258081.3/78


dit_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
110
120
130
140
150
160
170
180
Right In: 590.322+/-485.483 χ²/NDF: 17.1/15
Left Out: -233.091+/-288.376 χ²/NDF:23.8/22
Right Out: -462.606+/-476.795 χ²/NDF: 16.7/18
Left In: -129.589+/-301.288 χ²/NDF:13.3/20
Left: -183.606+/-208.328 χ²/NDF: 37.2/43
Right: 54.353+/-340.175 χ²/NDF: 36.2/34
In: 70.583+/-255.997 χ²/NDF:32.0/36
Out: -294.563+/-246.754 χ²/NDF:40.7/41
All: -118.701+/-177.659 χ²/NDF: 73.7/78




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.4/15

Left Out: 1232.274+/-0.204 $\chi^2$/NDF:139412.3/22

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.6/18

Left In: 1251.042+/-0.213 $\chi^2$/NDF:23686.5/20

Left: 1241.247+/-0.147 $\chi^2$/NDF: 167148.7/43

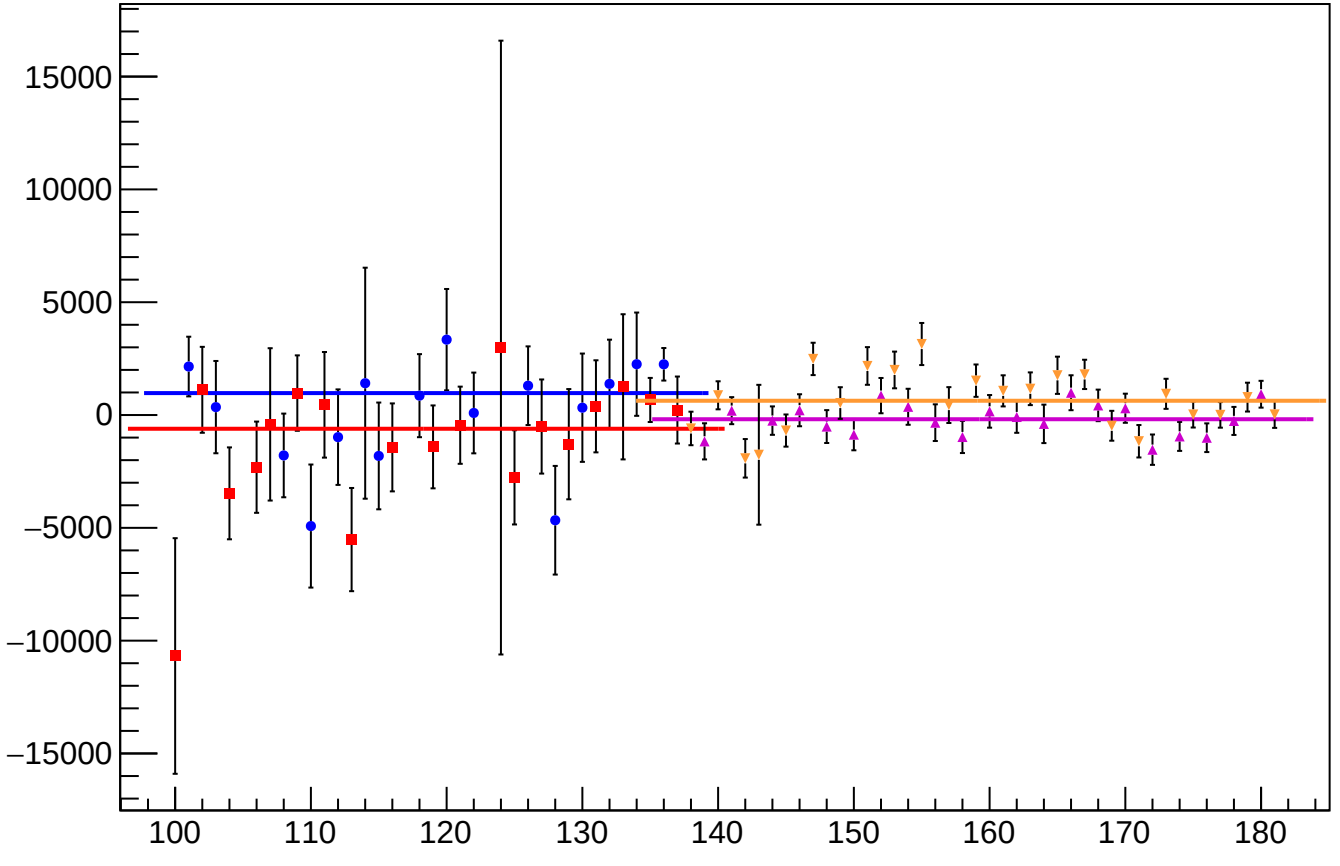
Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1259.474+/-0.181 $\chi^2$/NDF:536399.4/36

Out: 1244.216+/-0.174 $\chi^2$/NDF:372730.7/41

All: 1251.565+/-0.126 $\chi^2$/NDF: 912813.1/78

asym_at1_dd_at2_dd_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: 972.287+/-425.219 $\chi^2$/NDF: 20.4/15

Left Out: 632.798+/-148.843 $\chi^2$/NDF:56.4/22

Right Out: -608.431+/-447.734 $\chi^2$/NDF: 17.1/18

Left In: -186.286+/-151.674 $\chi^2$/NDF:21.4/20

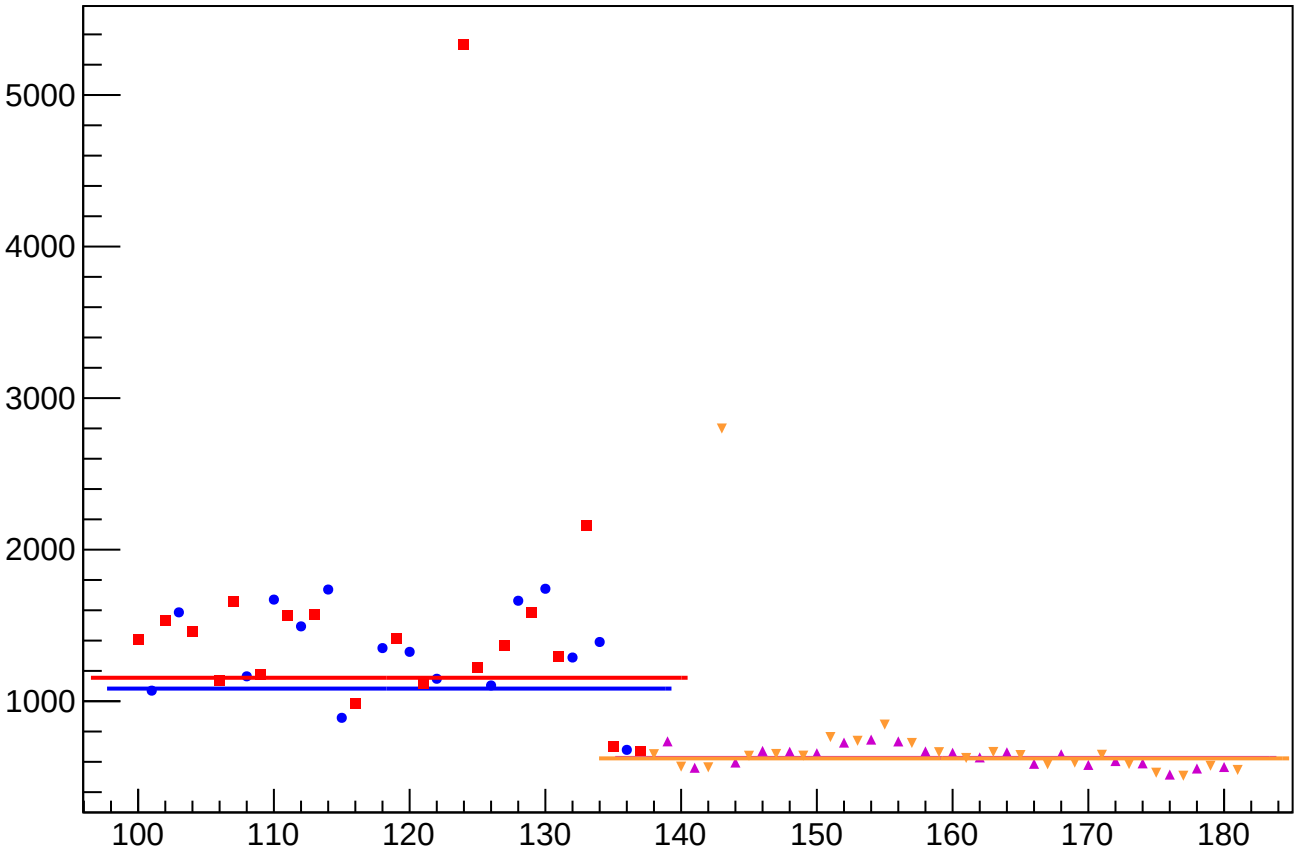
Left: 230.973+/-106.235 $\chi^2$/NDF: 92.7/43

Right: 222.671+/-308.328 $\chi^2$/NDF: 44.1/34

In: -55.516+/-142.858 $\chi^2$/NDF:48.5/36

Out: 509.276+/-141.243 $\chi^2$/NDF:80.4/41

All: 230.092+/-100.440 $\chi^2$/NDF: 136.8/78




Right In: 1083.335+/-0.301 $\chi^2$/NDF: 1360153.3/15

Left Out: 622.823+/-0.105 $\chi^2$/NDF:1478157.2/22

Right Out: 1154.724+/-0.317 $\chi^2$/NDF: 1488304.5/18

Left In: 625.775+/-0.107 $\chi^2$/NDF:346031.4/20

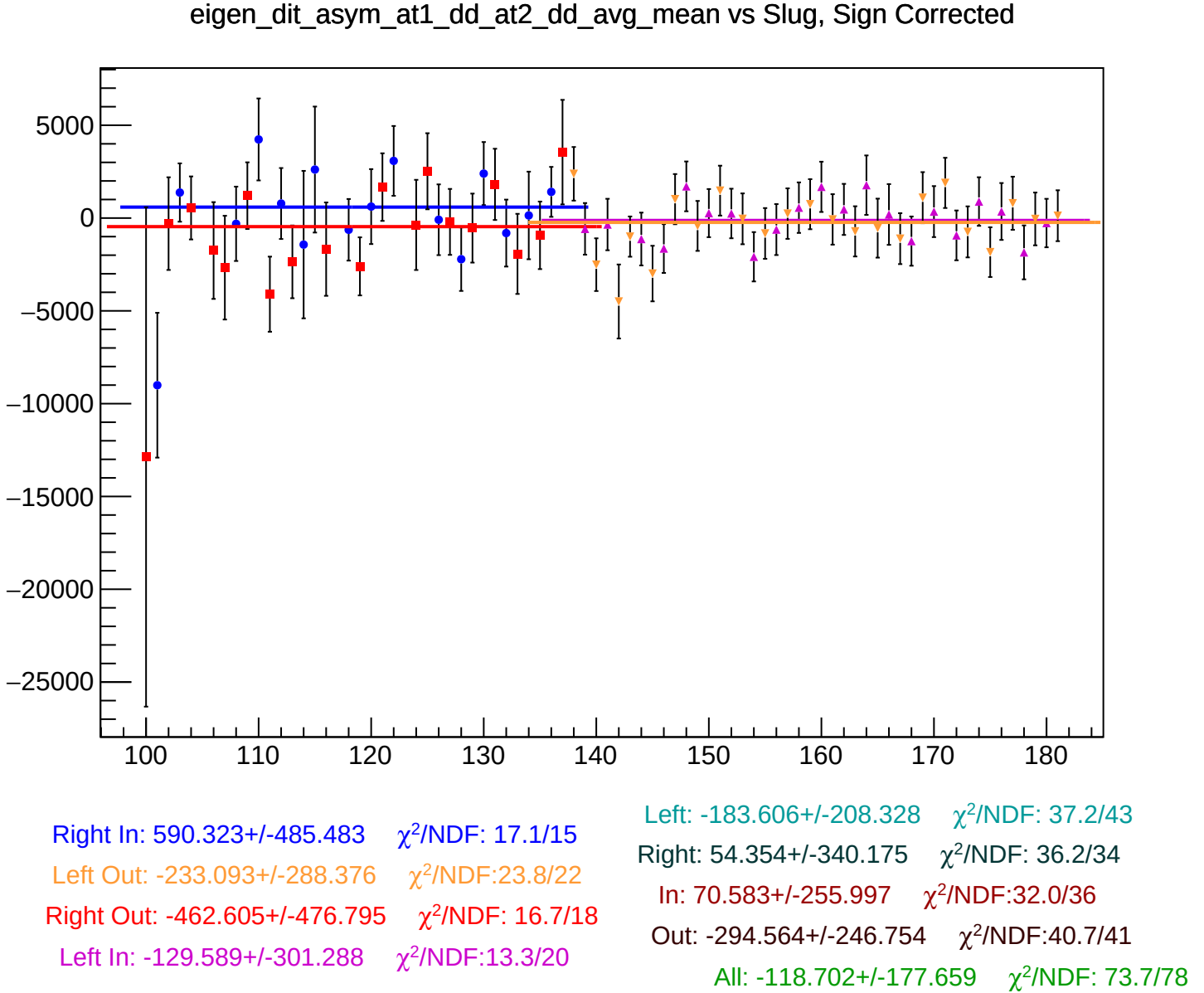
Left: 624.271+/-0.075 $\chi^2$/NDF: 1824574.7/43

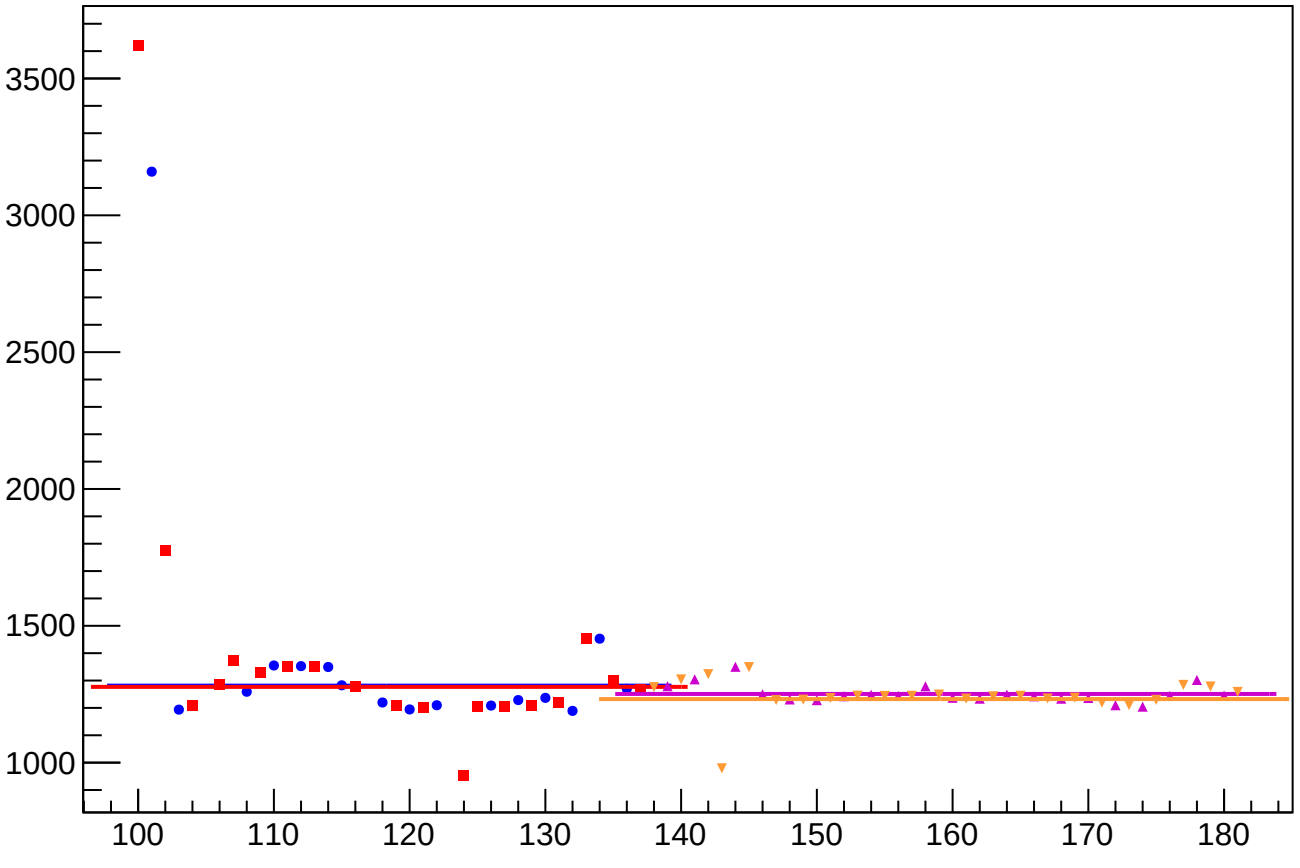
Right: 1117.189+/-0.218 $\chi^2$/NDF: 2875191.7/34

In: 677.421+/-0.101 $\chi^2$/NDF:3760591.5/36

Out: 675.756+/-0.100 $\chi^2$/NDF:5508182.4/41

All: 676.579+/-0.071 $\chi^2$/NDF: 9268911.3/78


eigen_dit_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
110
120
130
140
150
160
170
180
Right In: 590.323+/-485.483 χ²/NDF: 17.1/15
Left Out: -233.093+/-288.376 χ²/NDF:23.8/22
Right Out: -462.605+/-476.795 χ²/NDF: 16.7/18
Left In: -129.589+/-301.288 χ²/NDF:13.3/20
Left: -183.606+/-208.328 χ²/NDF: 37.2/43
Right: 54.354+/-340.175 χ²/NDF: 36.2/34
In: 70.583+/-255.997 χ²/NDF:32.0/36
Out: -294.564+/-246.754 χ²/NDF:40.7/41
All: -118.702+/-177.659 χ²/NDF: 73.7/78




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.6/15

Left Out: 1232.274+/-0.204 $\chi^2$/NDF:139411.4/22

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.5/18

Left In: 1251.041+/-0.213 $\chi^2$/NDF:23686.5/20

Left: 1241.247+/-0.147 $\chi^2$/NDF: 167147.7/43

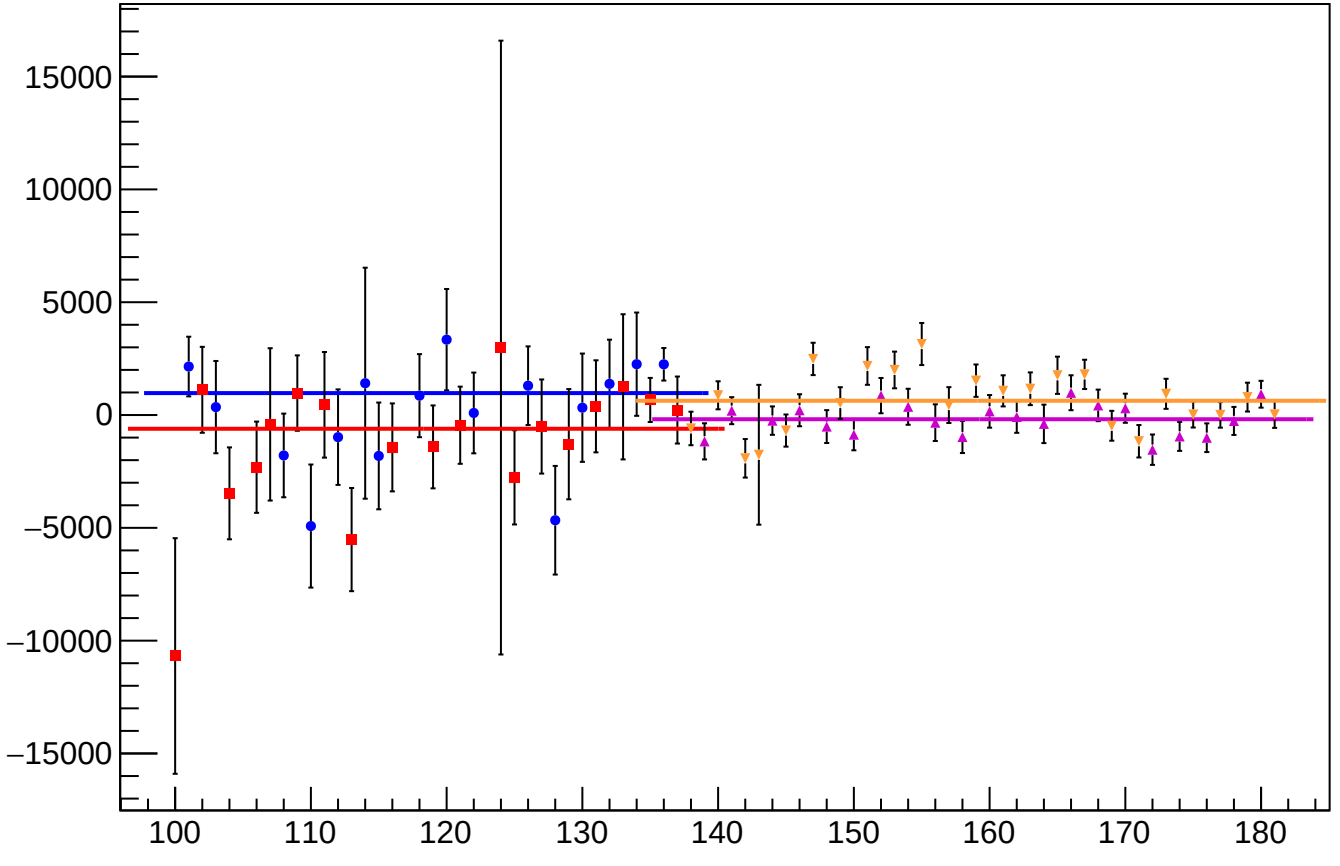
Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1259.474+/-0.181 $\chi^2$/NDF:536399.5/36

Out: 1244.216+/-0.174 $\chi^2$/NDF:372729.6/41

All: 1251.565+/-0.126 $\chi^2$/NDF: 912812.2/78

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 972.281+/-425.220 $\chi^2$/NDF: 20.4/15

Left Out: 632.797+/-148.843 $\chi^2$/NDF:56.4/22

Right Out: -608.441+/-447.736 $\chi^2$/NDF: 17.1/18

Left In: -186.285+/-151.674 $\chi^2$/NDF:21.4/20

Left: 230.973+/-106.234 $\chi^2$/NDF: 92.7/43

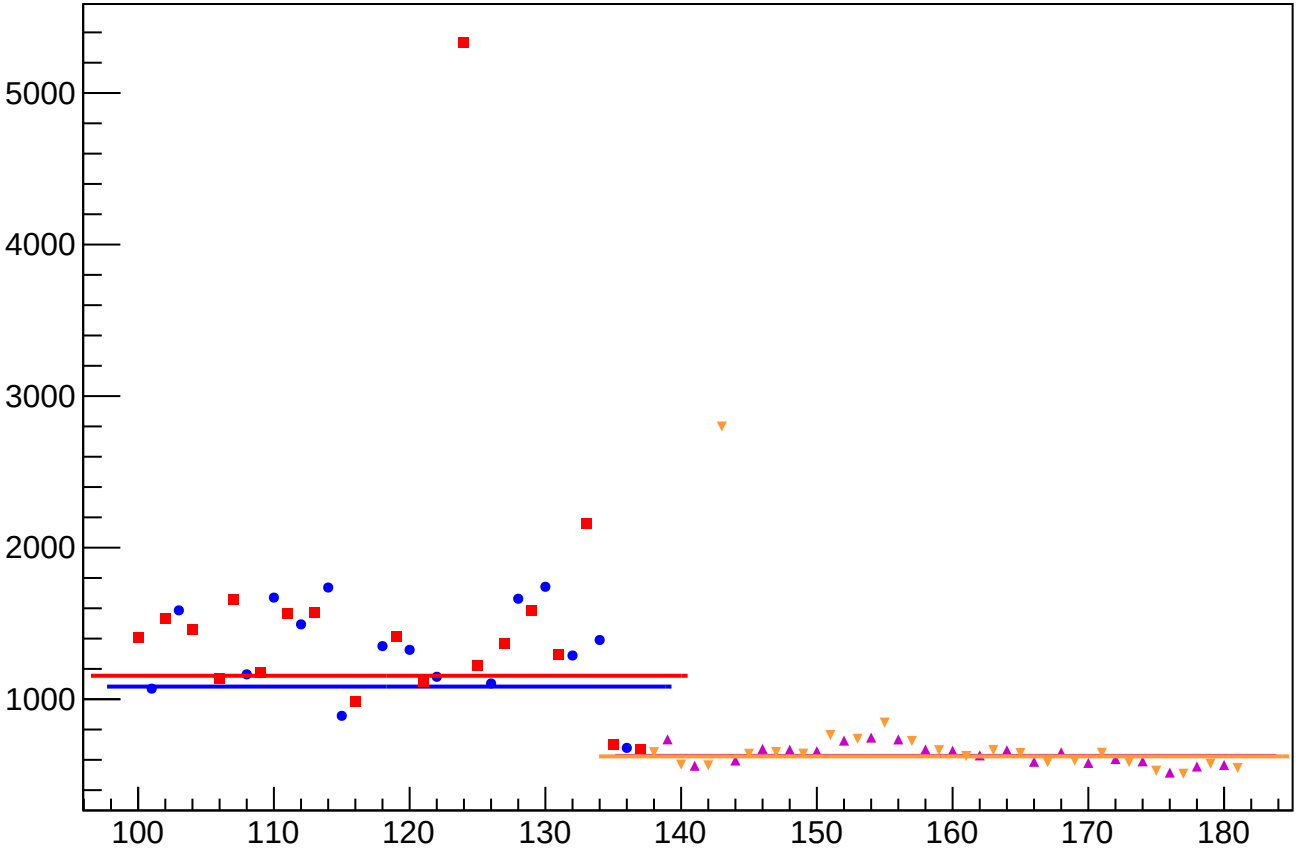
Right: 222.664+/-308.329 $\chi^2$/NDF: 44.1/34

In: -55.517+/-142.858 $\chi^2$/NDF:48.5/36

Out: 509.276+/-141.243 $\chi^2$/NDF:80.4/41

All: 230.091+/-100.440 $\chi^2$/NDF: 136.8/78

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1083.341+/-0.301 $\chi^2$/NDF: 1360095.7/15

Left Out: 622.823+/-0.105 $\chi^2$/NDF:1478156.7/22

Right Out: 1154.732+/-0.317 $\chi^2$/NDF: 1488251.4/18

Left In: 625.774+/-0.107 $\chi^2$/NDF:346038.2/20

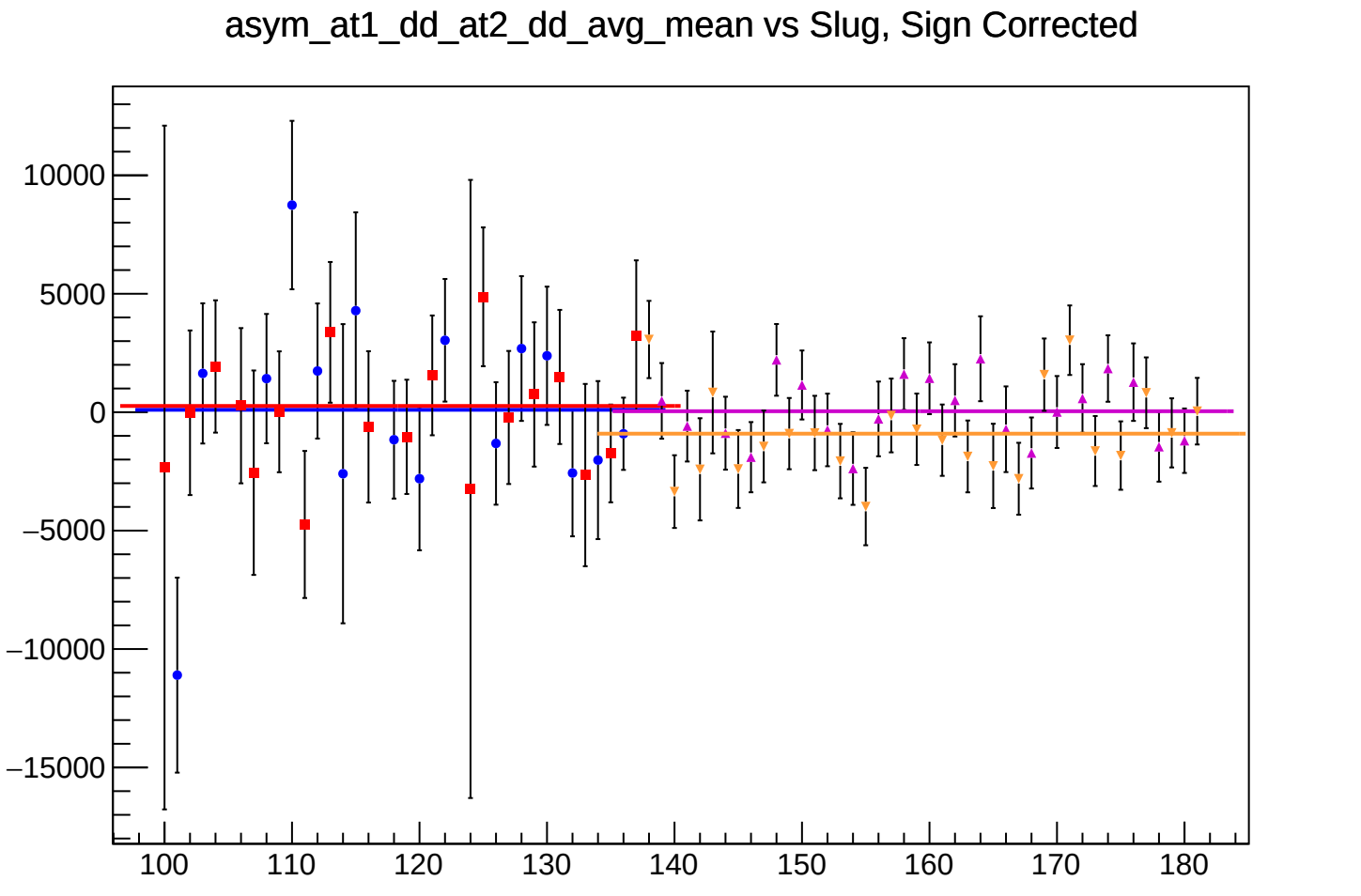
Left: 624.271+/-0.075 $\chi^2$/NDF: 1824580.7/43

Right: 1117.196+/-0.218 $\chi^2$/NDF: 2875081.4/34

In: 677.420+/-0.101 $\chi^2$/NDF:3760593.6/36

Out: 675.756+/-0.100 $\chi^2$/NDF:5508182.6/41

All: 676.578+/-0.071 $\chi^2$/NDF: 9268913.5/78




Right In: 100.451+/-698.983 $\chi^2$/NDF: 21.3/15

Left Out: -907.432+/-327.414 $\chi^2$/NDF:29.6/22

Right Out: 262.731+/-699.724 $\chi^2$/NDF: 10.3/18

Left In: 40.582+/-332.765 $\chi^2$/NDF:17.1/20

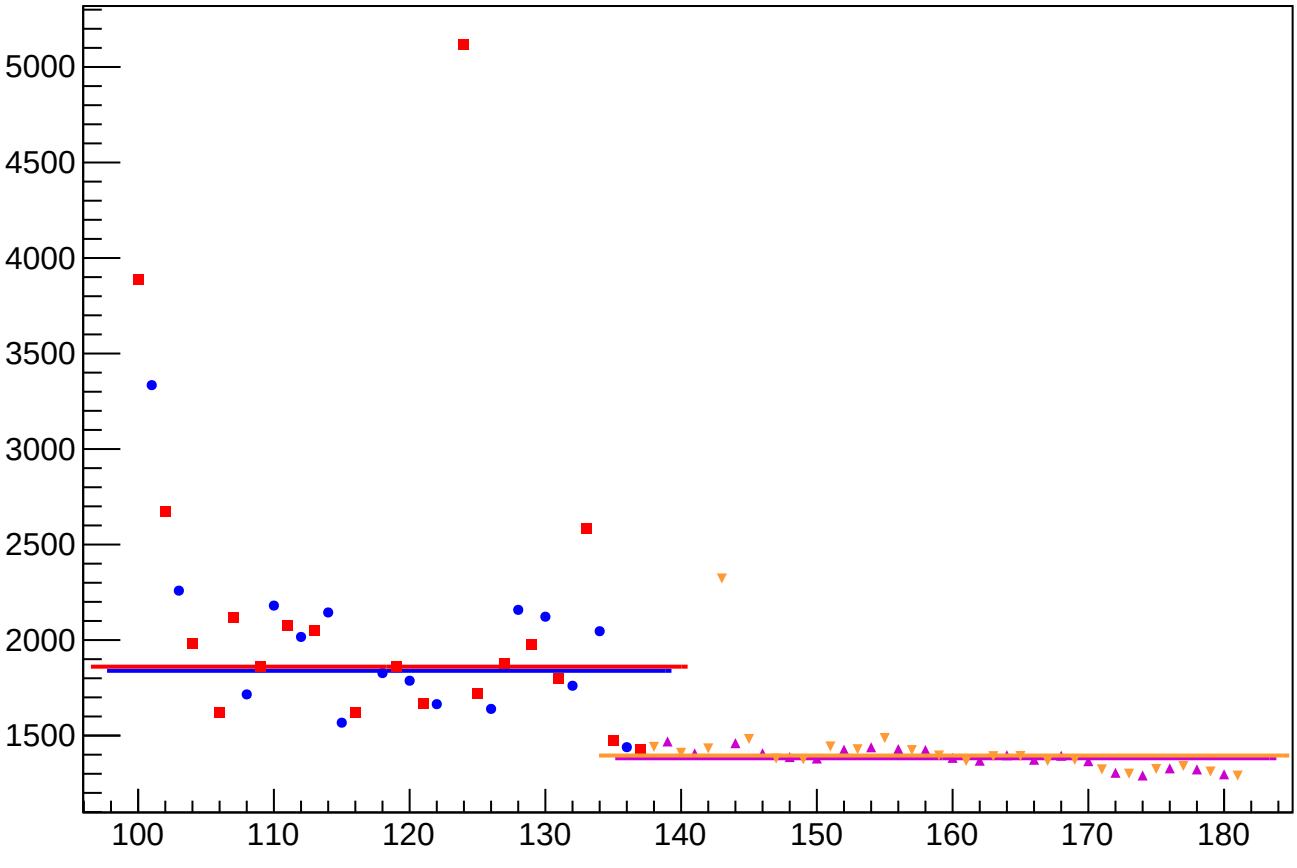
Left: -441.109+/-233.385 $\chi^2$/NDF: 50.8/43

Right: 181.505+/-494.518 $\chi^2$/NDF: 31.6/34

In: 51.644+/-300.454 $\chi^2$/NDF:38.4/36

Out: -697.247+/-296.554 $\chi^2$/NDF:42.3/41

All: -327.694+/-211.061 $\chi^2$/NDF: 83.8/78




Right In: 1839.113+/-0.494 $\chi^2$/NDF: 556725.4/15

Left Out: 1395.593+/-0.232 $\chi^2$/NDF:318108.5/22

Right Out: 1860.754+/-0.495 $\chi^2$/NDF: 522114.2/18

Left In: 1381.208+/-0.235 $\chi^2$/NDF:47958.1/20

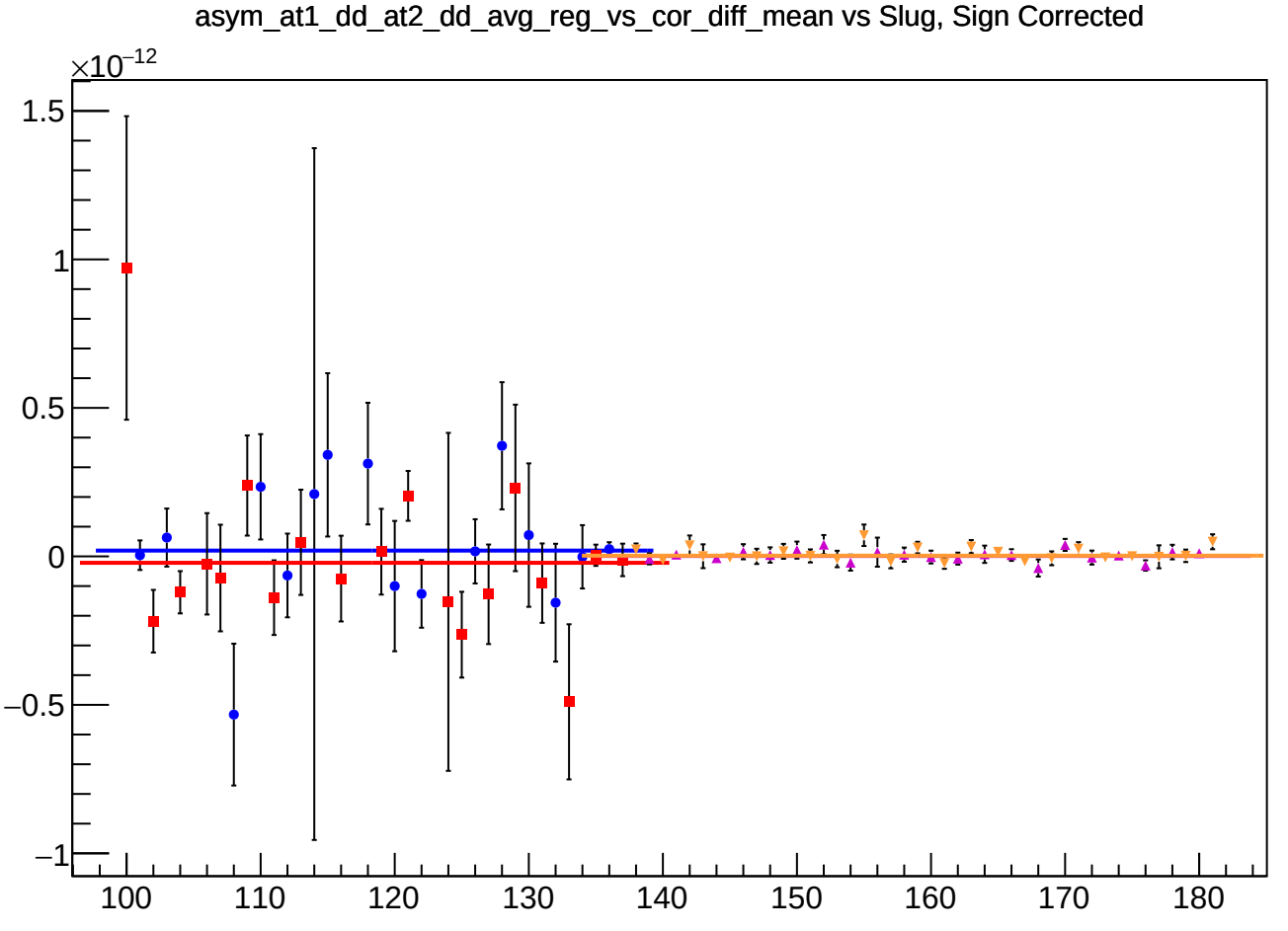
Left: 1388.517+/-0.165 $\chi^2$/NDF: 367965.6/43

Right: 1849.922+/-0.350 $\chi^2$/NDF: 1079797.1/34

In: 1465.814+/-0.212 $\chi^2$/NDF:1304415.5/36

Out: 1479.146+/-0.210 $\chi^2$/NDF:1565336.8/41

All: 1472.567+/-0.149 $\chi^2$/NDF: 2871747.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.4/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 35.7/43

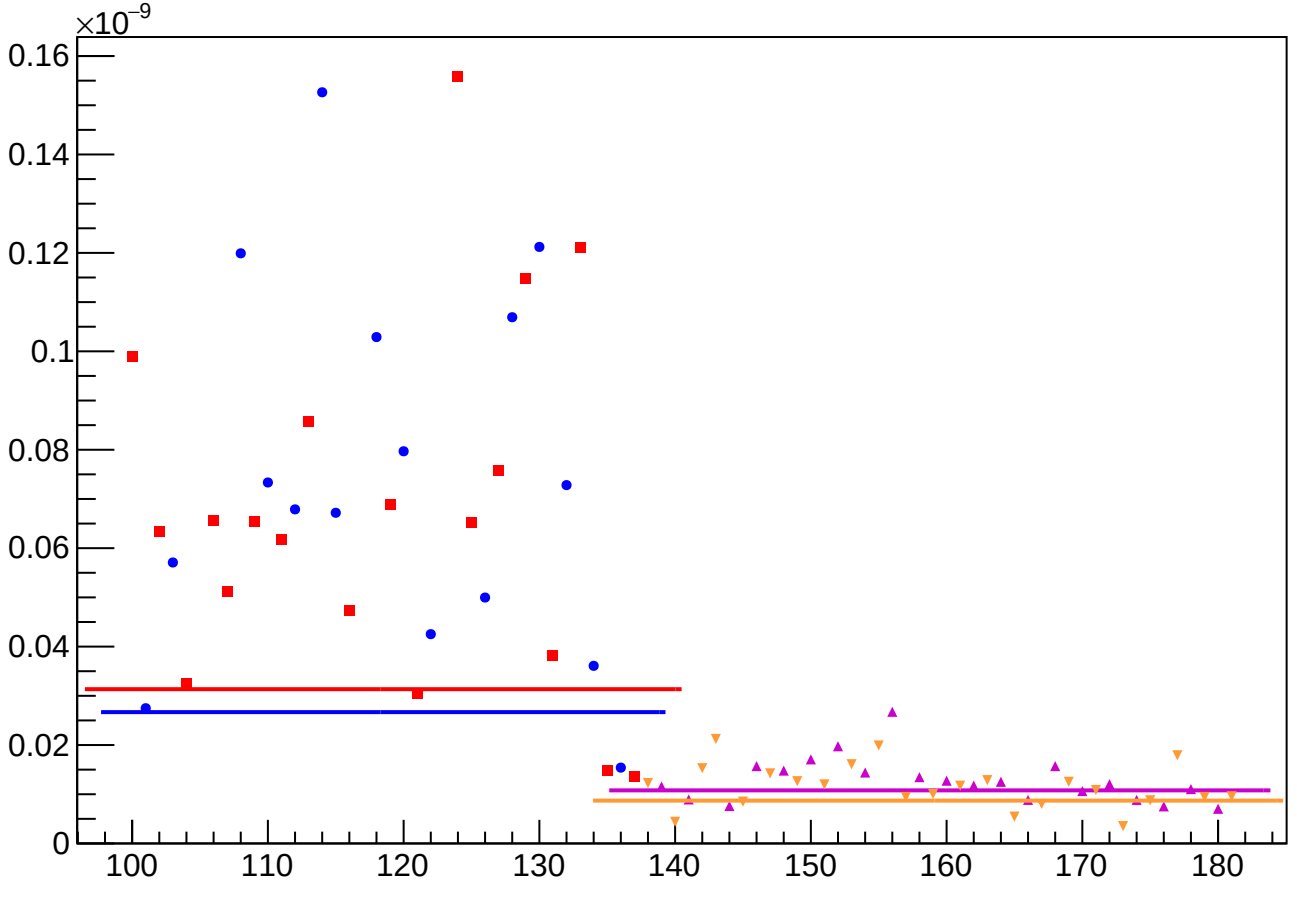
Right: 0.000+/-0.000 $\chi^2$/NDF: 46.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:30.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:51.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 82.3/78

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2580672.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2119432.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2275167.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1133312.5/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3493835.0/43

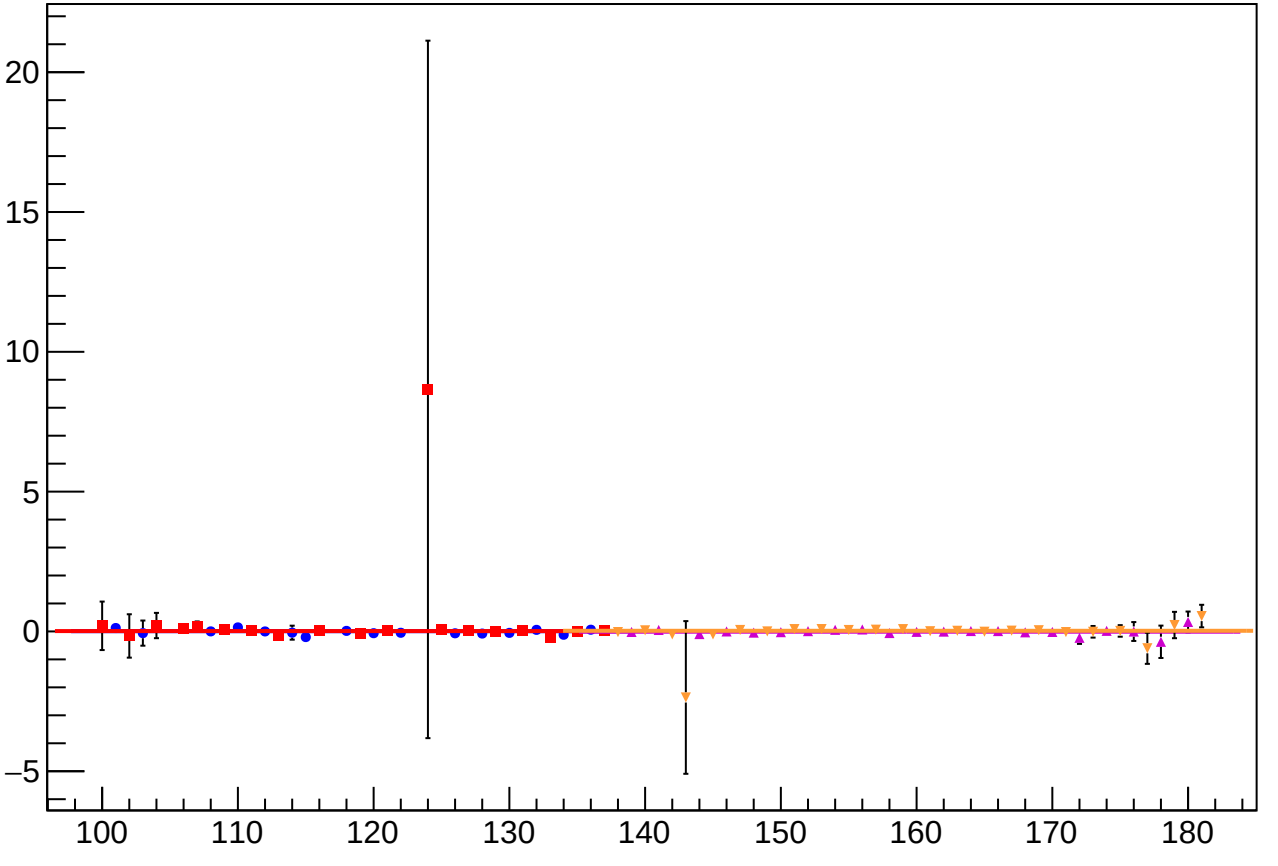
Right: 0.000+/-0.000 $\chi^2$/NDF: 4906978.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5064435.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6395972.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11764813.3/78

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: 0.023+/-0.010 $\chi^2$/NDF:21.3/22

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.010+/-0.010 $\chi^2$/NDF:13.1/20

Left: 0.006+/-0.007 $\chi^2$/NDF: 39.8/43

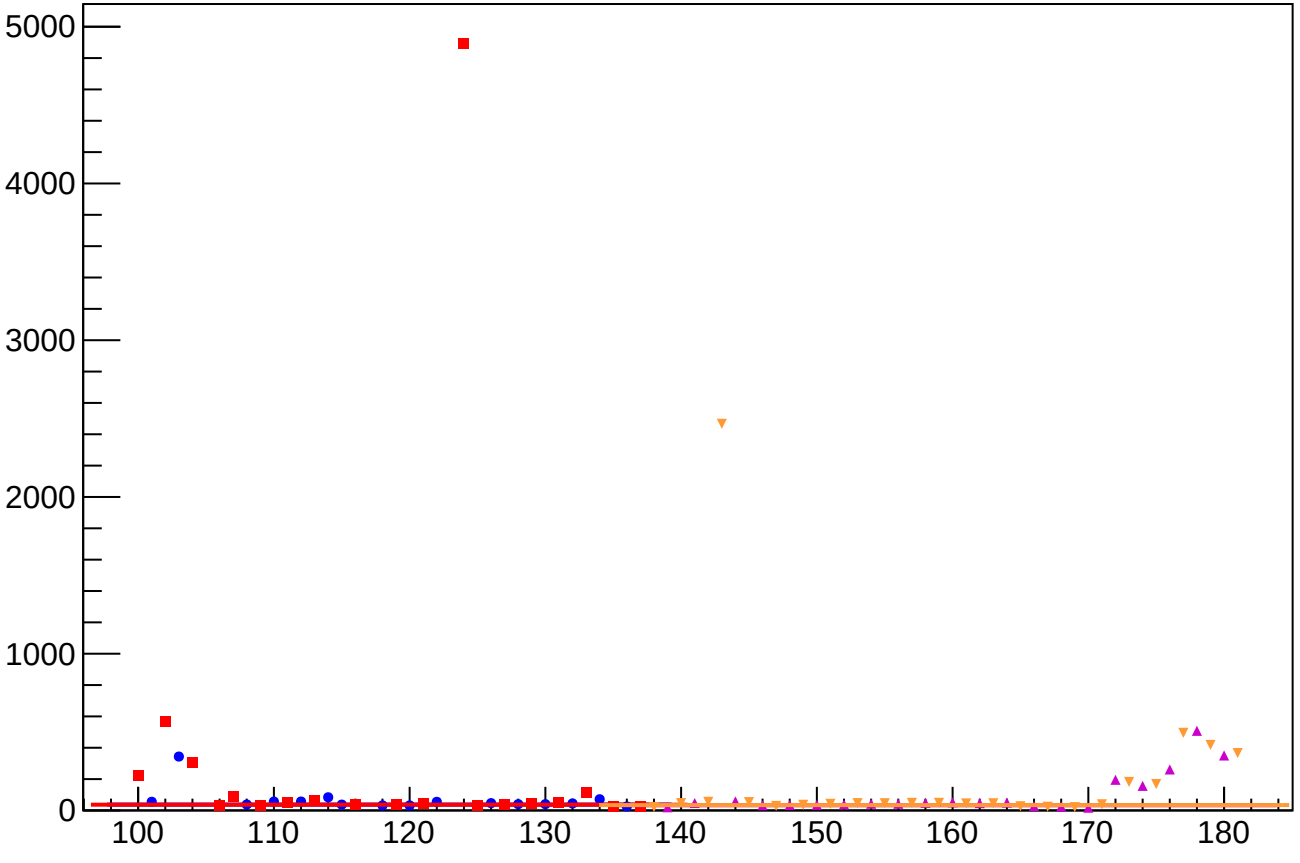
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.008 $\chi^2$/NDF:33.4/36

Out: 0.020+/-0.009 $\chi^2$/NDF:34.1/41

All: 0.007+/-0.006 $\chi^2$/NDF: 71.8/78

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 34.216+/-0.007 $\chi^2$/NDF:9907186.8/22

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 33.186+/-0.007 $\chi^2$/NDF:8540974.9/20

Left: 33.687+/-0.005 $\chi^2$/NDF: 18458585.6/43

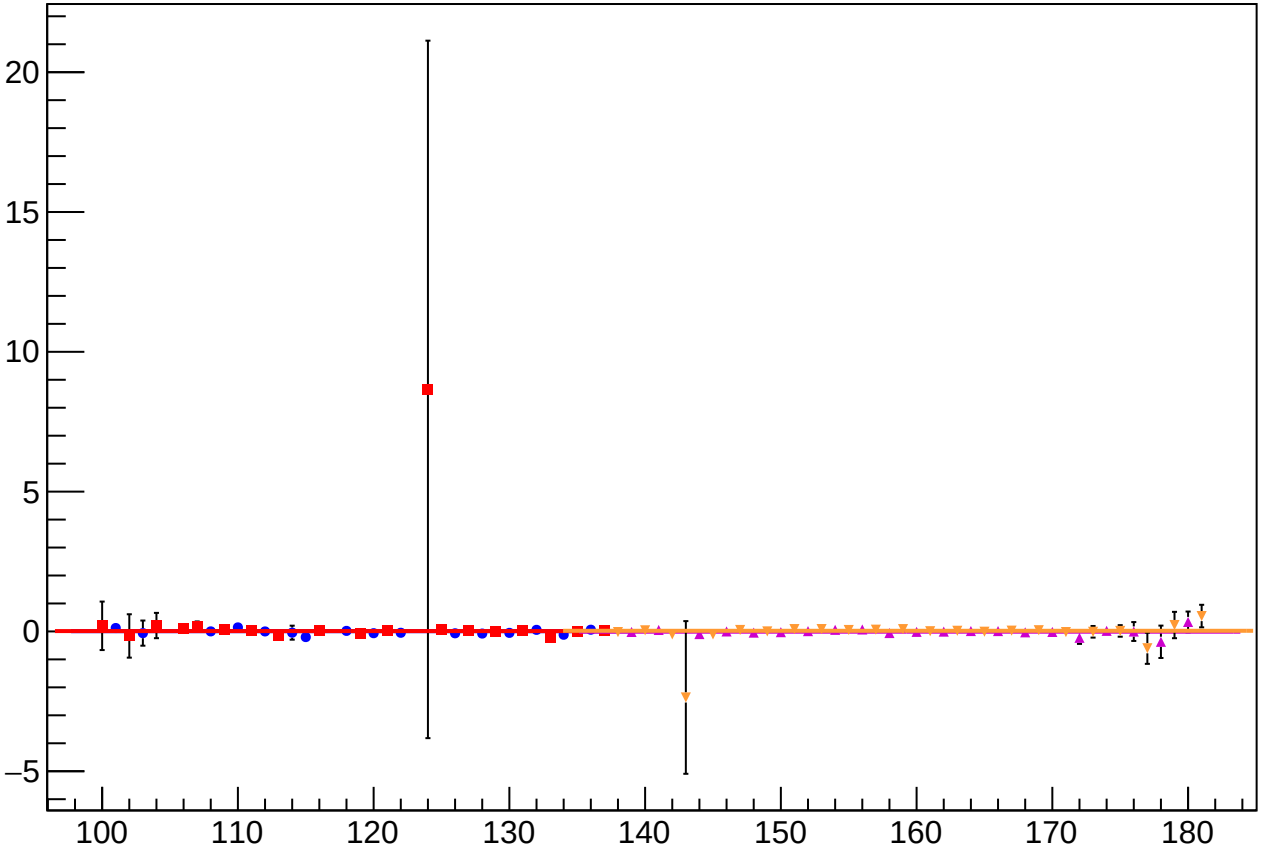
Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 34.379+/-0.006 $\chi^2$/NDF:10628077.6/36

Out: 34.915+/-0.006 $\chi^2$/NDF:13132100.8/41

All: 34.640+/-0.004 $\chi^2$/NDF: 23764082.0/78

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: 0.023+/-0.010 $\chi^2$/NDF:21.3/22

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.010+/-0.010 $\chi^2$/NDF:13.1/20

Left: 0.006+/-0.007 $\chi^2$/NDF: 39.8/43

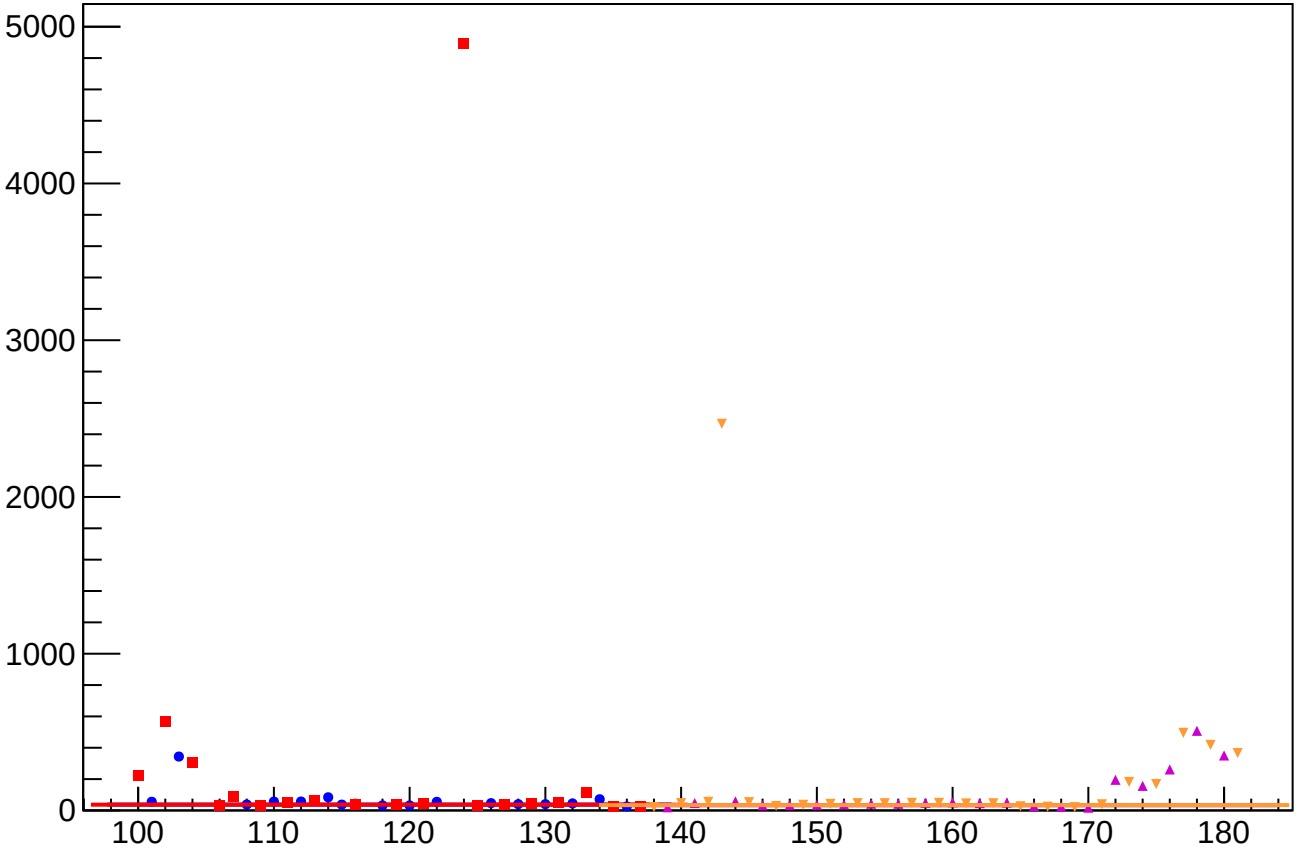
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.008 $\chi^2$/NDF:33.4/36

Out: 0.020+/-0.009 $\chi^2$/NDF:34.1/41

All: 0.007+/-0.006 $\chi^2$/NDF: 71.8/78

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 34.216+/-0.007 $\chi^2$/NDF:9907186.8/22

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 33.186+/-0.007 $\chi^2$/NDF:8540974.9/20

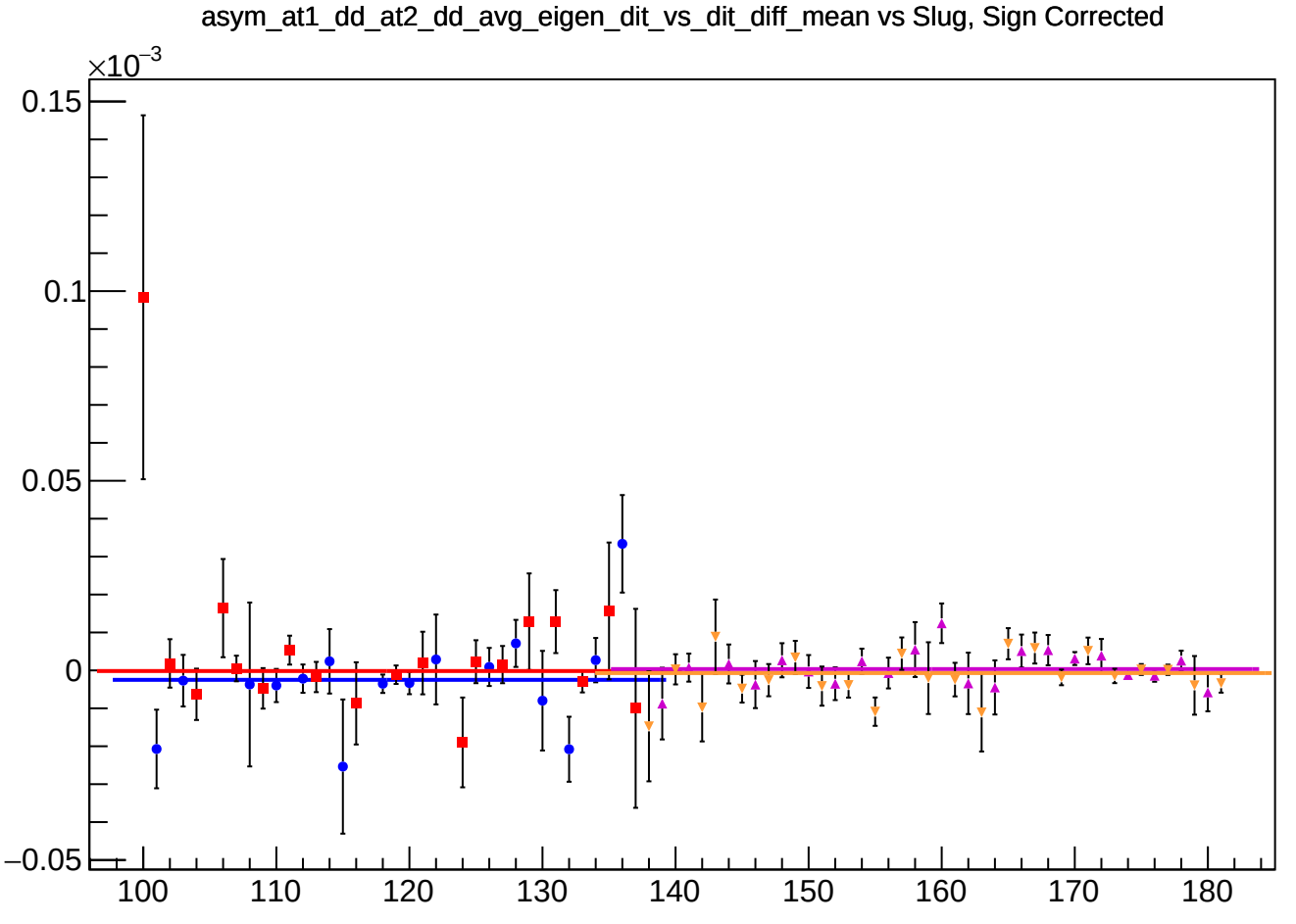
Left: 33.687+/-0.005 $\chi^2$/NDF: 18458585.6/43

Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 34.379+/-0.006 $\chi^2$/NDF:10628077.6/36

Out: 34.915+/-0.006 $\chi^2$/NDF:13132100.8/41

All: 34.640+/-0.004 $\chi^2$/NDF: 23764082.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.1/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 50.8/43

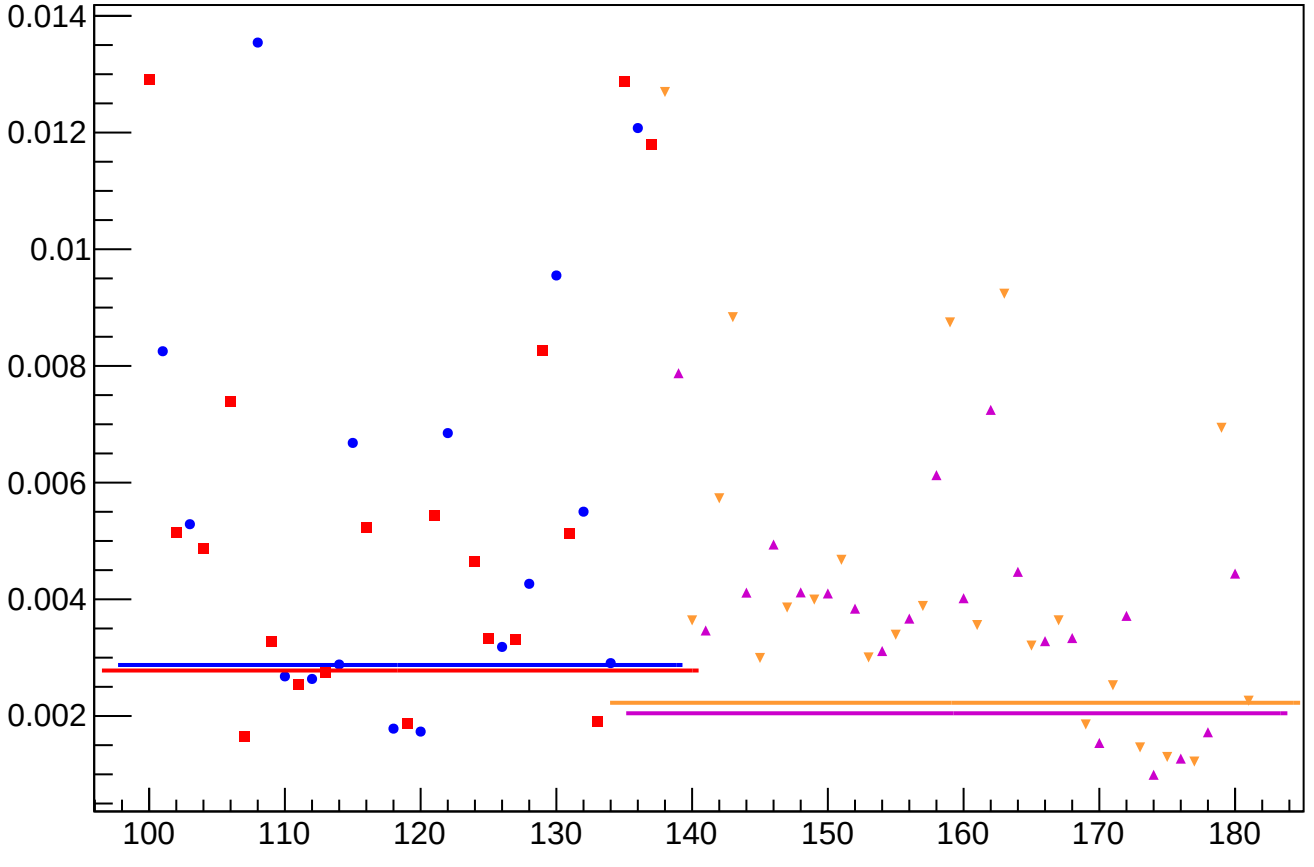
Right: -0.000+/-0.000 $\chi^2$/NDF: 42.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:46.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:47.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 94.4/78

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4152056.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:9759075.4/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3311178.7/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:9246141.6/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 19086272.8/43

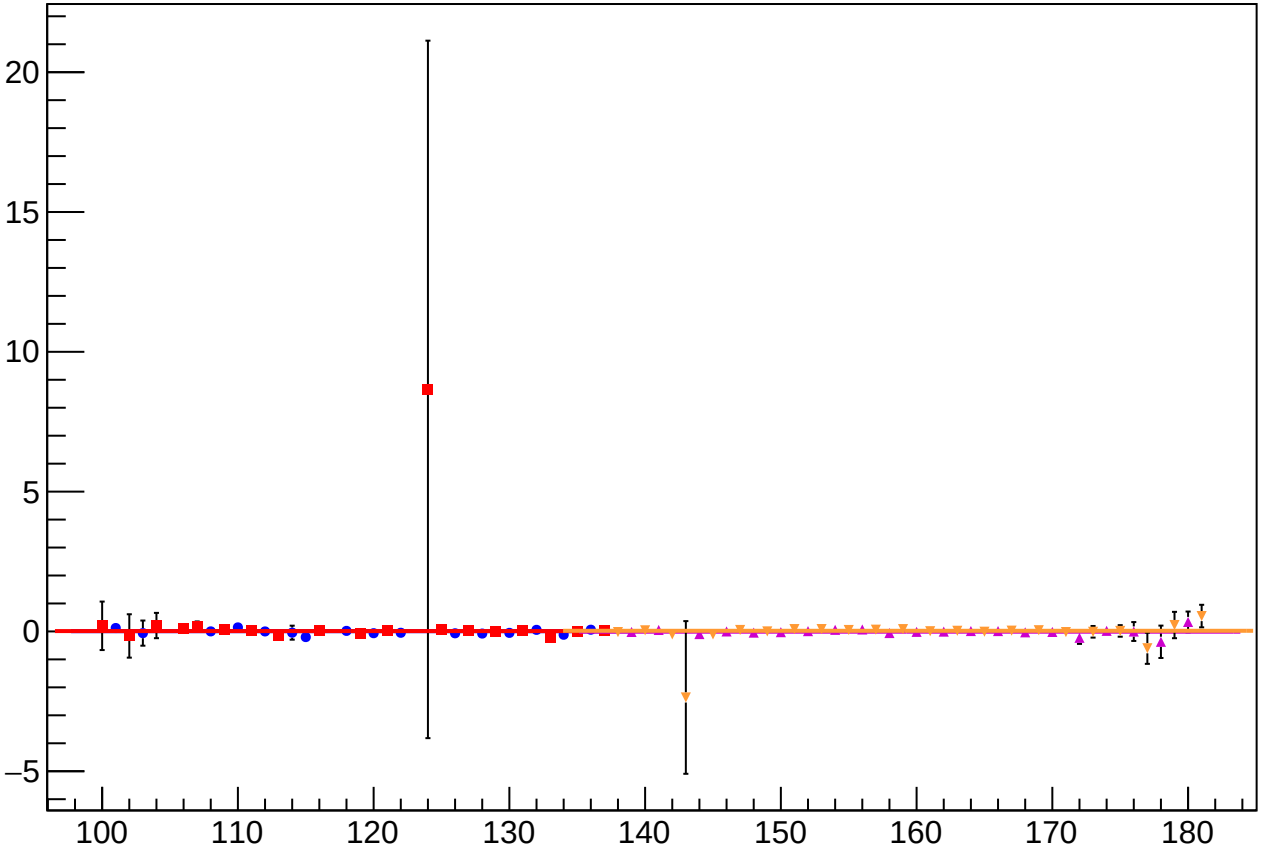
Right: 0.003+/-0.000 $\chi^2$/NDF: 7469105.0/34

In: 0.002+/-0.000 $\chi^2$/NDF:14049916.5/36

Out: 0.002+/-0.000 $\chi^2$/NDF:13414637.1/41

All: 0.002+/-0.000 $\chi^2$/NDF: 27532220.3/78

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: 0.023+/-0.010 $\chi^2$/NDF:21.3/22

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.010+/-0.010 $\chi^2$/NDF:13.1/20

Left: 0.006+/-0.007 $\chi^2$/NDF: 39.8/43

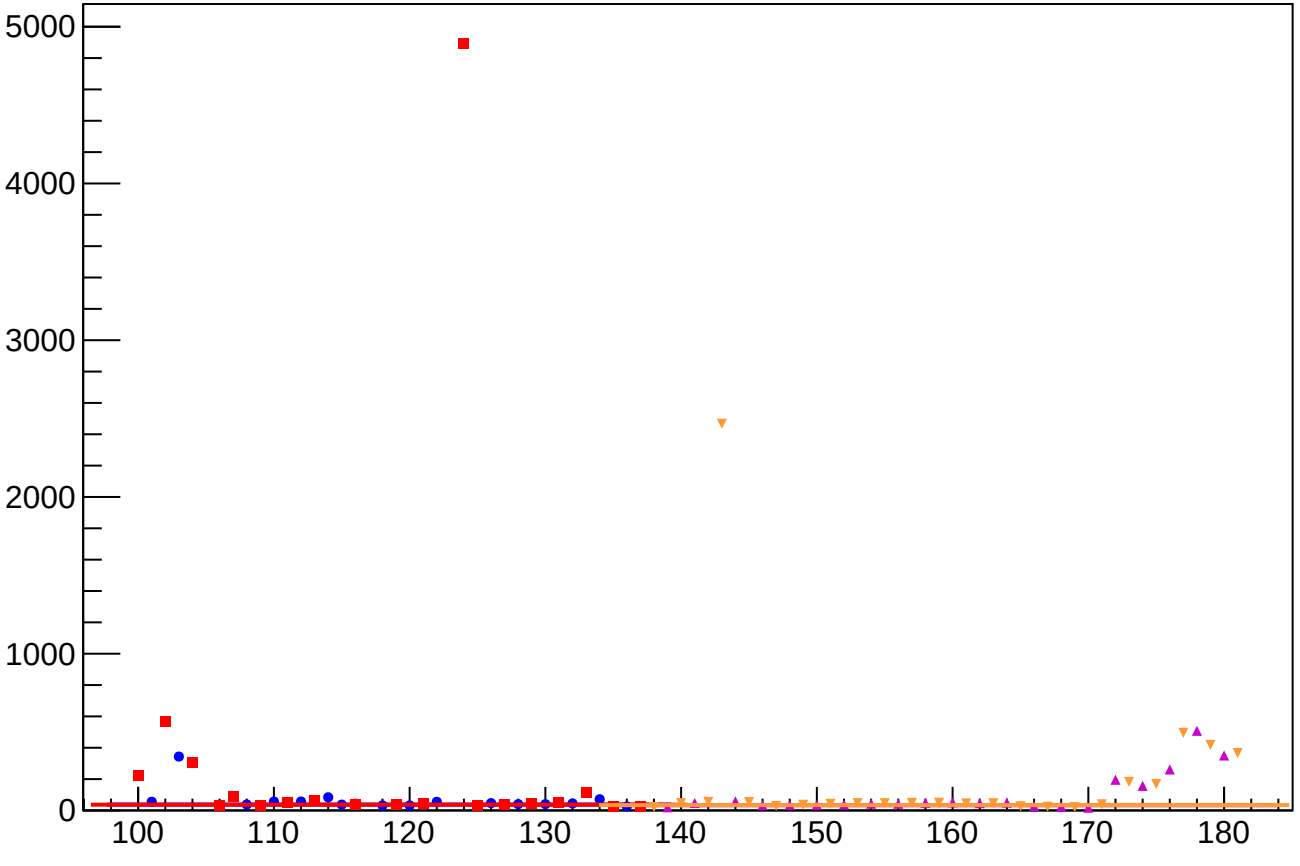
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.008 $\chi^2$/NDF:33.4/36

Out: 0.020+/-0.009 $\chi^2$/NDF:34.1/41

All: 0.007+/-0.006 $\chi^2$/NDF: 71.8/78

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 34.215+/-0.007 $\chi^2$/NDF:9907284.4/22

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 33.188+/-0.007 $\chi^2$/NDF:8539738.7/20

Left: 33.688+/-0.005 $\chi^2$/NDF: 18457381.8/43

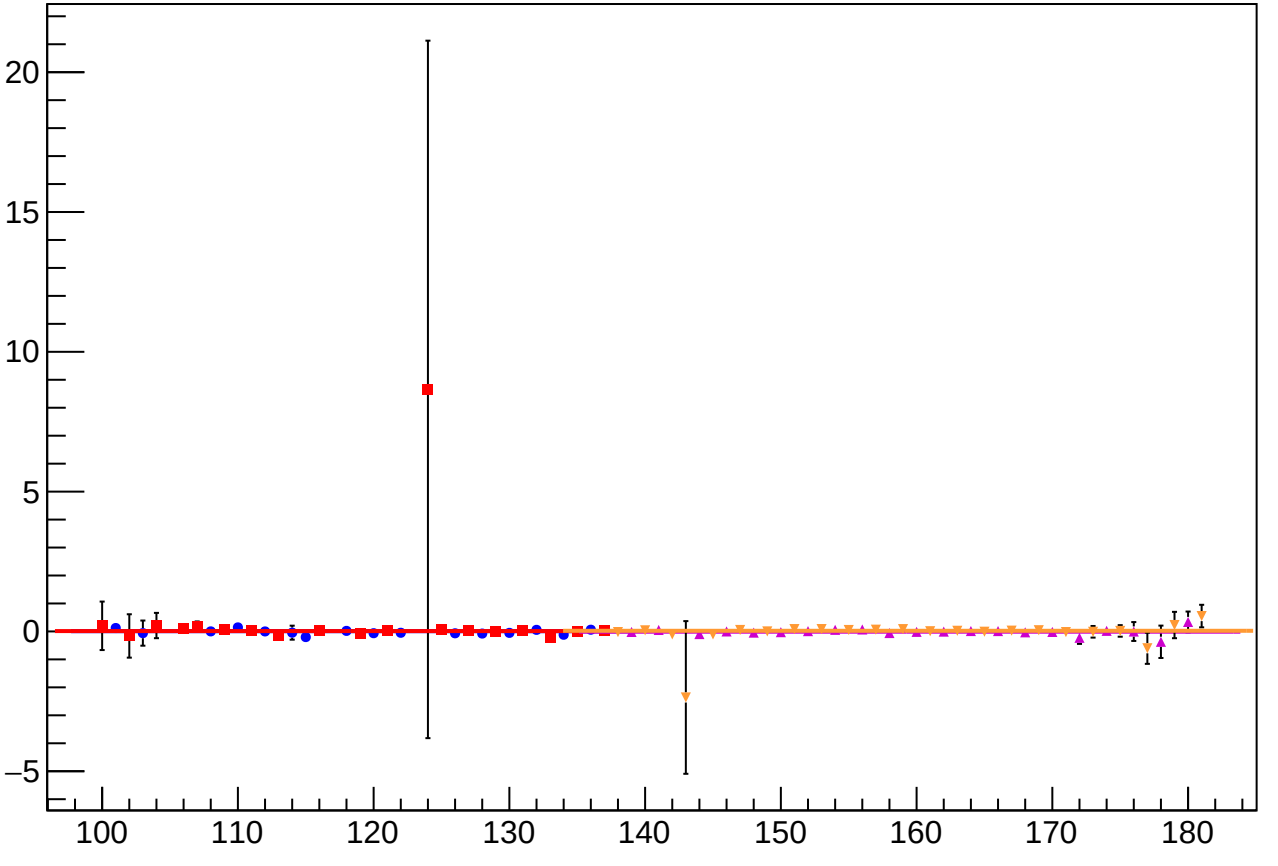
Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 34.381+/-0.006 $\chi^2$/NDF:10626685.8/36

Out: 34.915+/-0.006 $\chi^2$/NDF:13131968.8/41

All: 34.641+/-0.004 $\chi^2$/NDF: 23762527.7/78

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.016 $\chi^2$/NDF: 19.3/15

Left Out: 0.023+/-0.010 $\chi^2$/NDF:21.3/22

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.010+/-0.010 $\chi^2$/NDF:13.1/20

Left: 0.006+/-0.007 $\chi^2$/NDF: 39.8/43

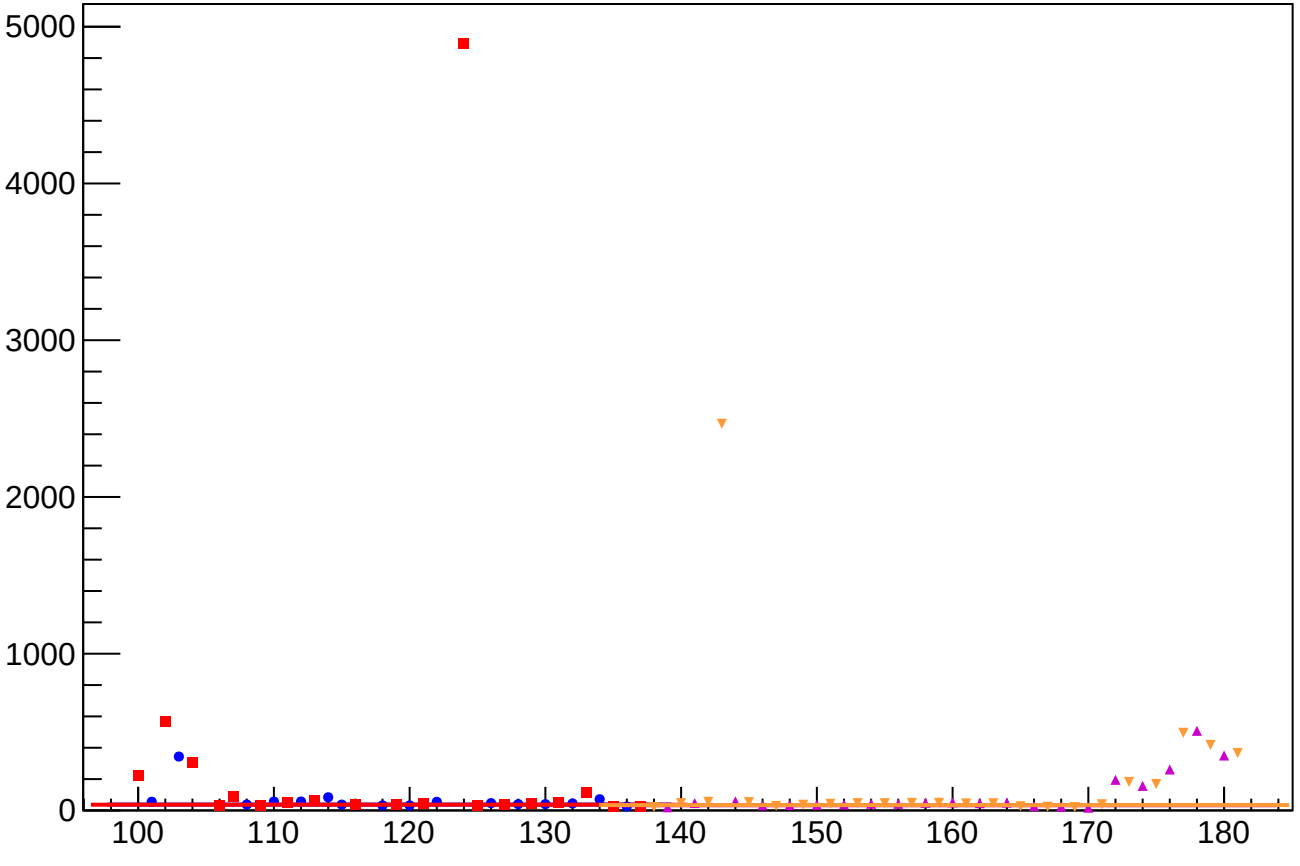
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: -0.005+/-0.008 $\chi^2$/NDF:33.4/36

Out: 0.020+/-0.009 $\chi^2$/NDF:34.1/41

All: 0.007+/-0.006 $\chi^2$/NDF: 71.8/78

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 34.215+/-0.007 $\chi^2$/NDF:9907284.4/22

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 33.188+/-0.007 $\chi^2$/NDF:8539738.7/20

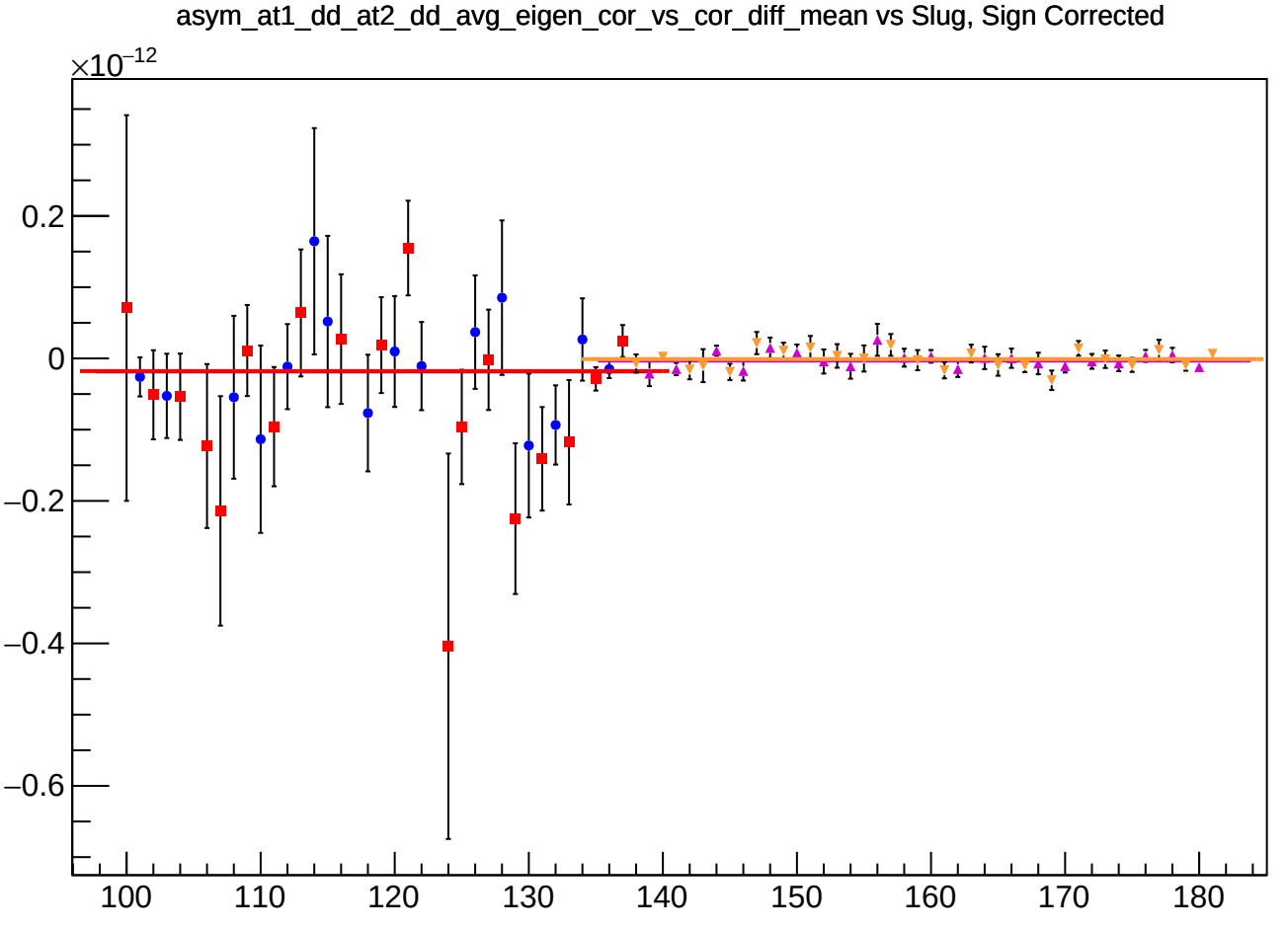
Left: 33.688+/-0.005 $\chi^2$/NDF: 18457381.8/43

Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 34.381+/-0.006 $\chi^2$/NDF:10626685.8/36

Out: 34.915+/-0.006 $\chi^2$/NDF:13131968.8/41

All: 34.641+/-0.004 $\chi^2$/NDF: 23762527.7/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:24.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.3/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 43.3/43

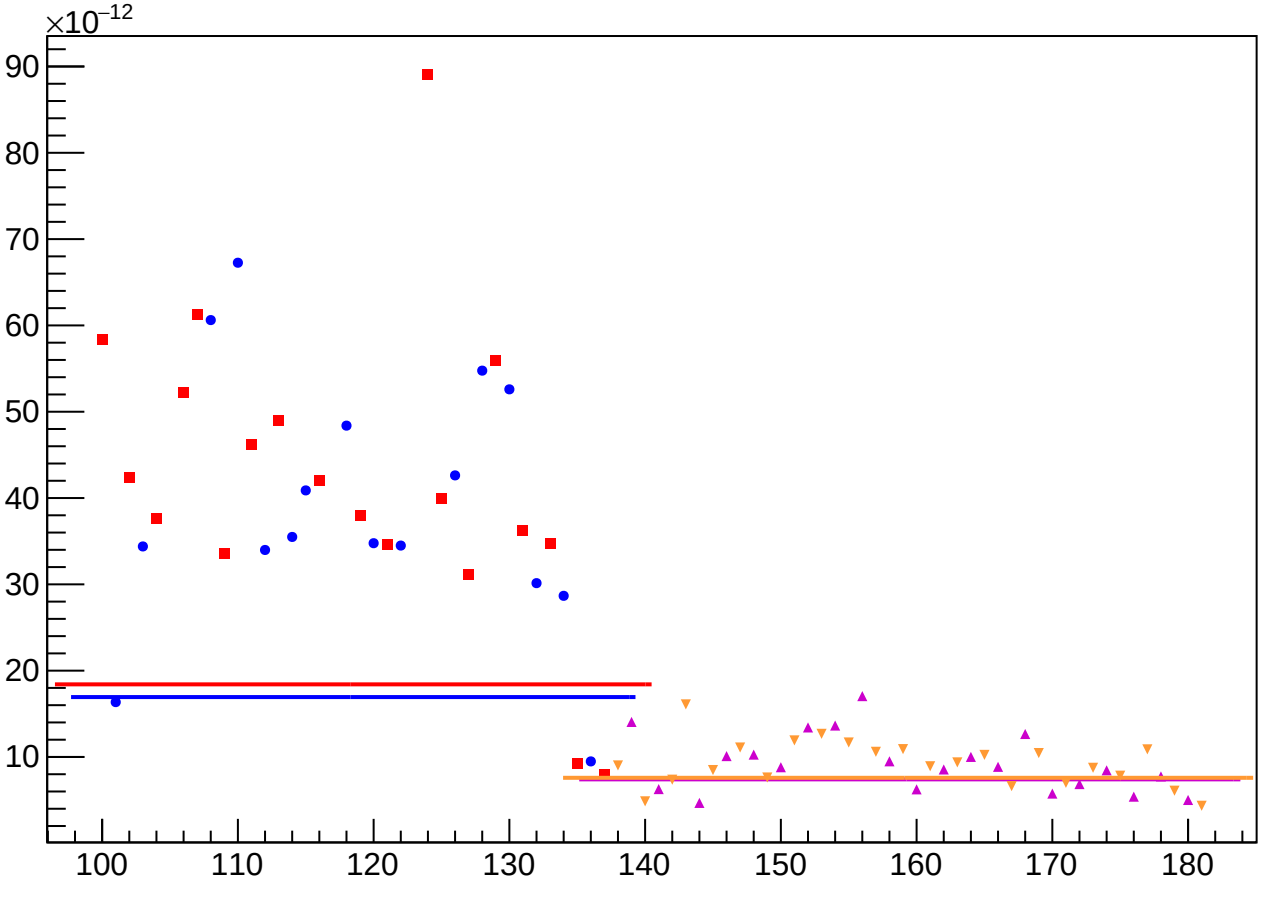
Right: -0.000+/-0.000 $\chi^2$/NDF: 35.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:28.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:54.2/41

All: -0.000+/-0.000 $\chi^2$/NDF: 83.4/78

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3207856.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2428877.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3674861.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2599159.5/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 5034141.1/43

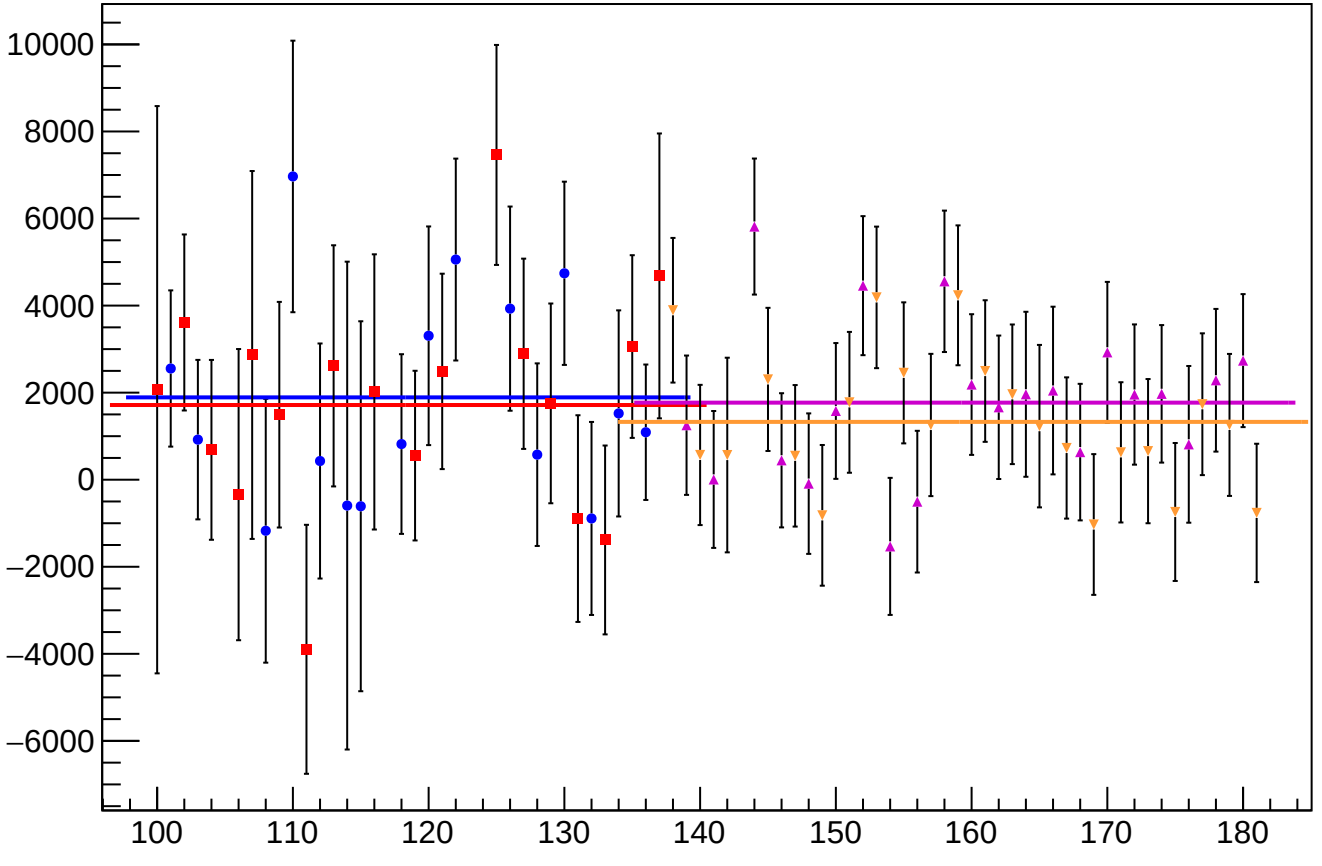
Right: 0.000+/-0.000 $\chi^2$/NDF: 6902390.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:7558706.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7941328.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15503479.1/78

# reg_asym_usl_atl1_avg_mean vs Slug, Sign Corrected




Right In: 1891.457+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1328.357+/-351.464 $\chi^2$/NDF:18.8/21

Right Out: 1715.909+/-589.518 $\chi^2$/NDF: 16.0/17

Left In: 1770.253+/-354.554 $\chi^2$/NDF:24.2/20

Left: 1547.371+/-249.608 $\chi^2$/NDF: 43.8/42

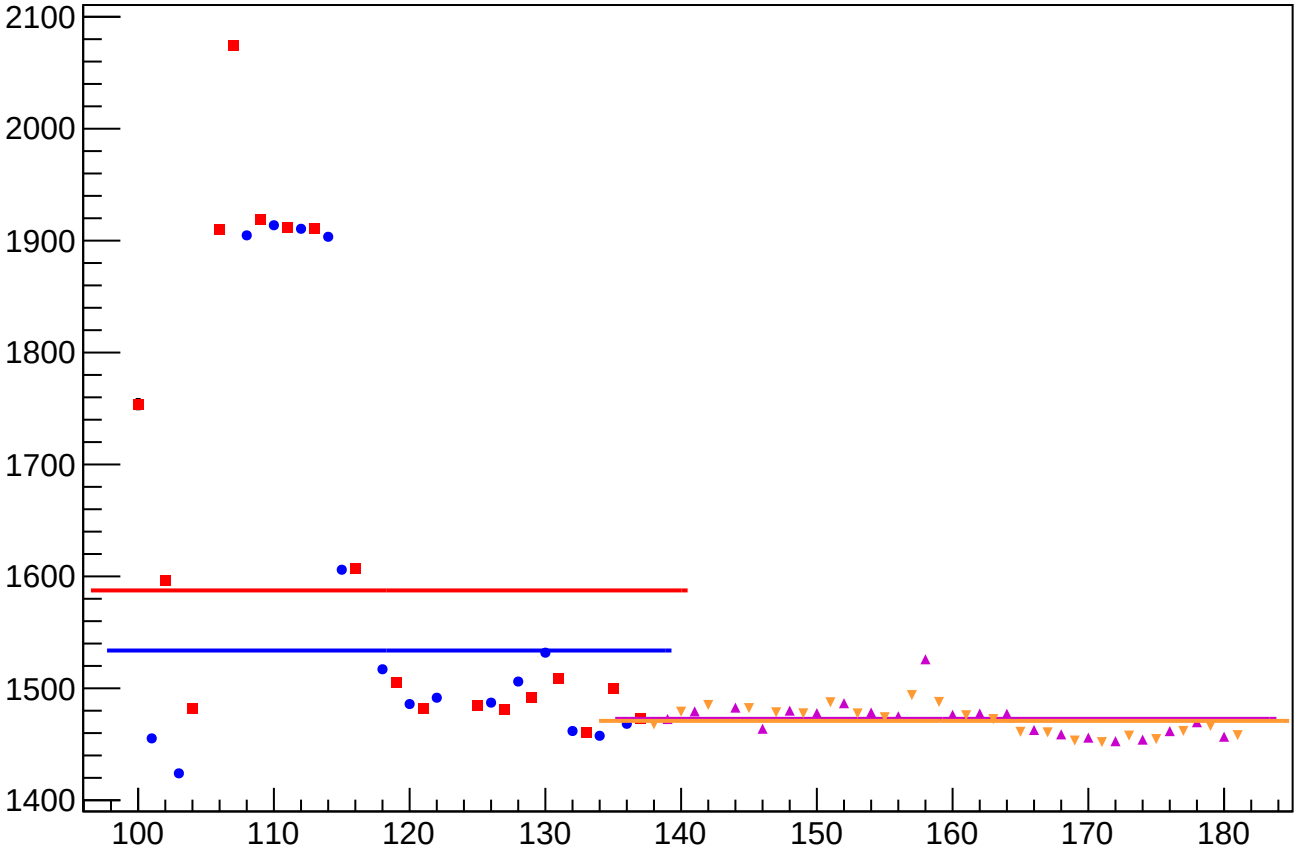
Right: 1806.293+/-410.609 $\chi^2$/NDF: 28.2/33

In: 1803.875+/-301.392 $\chi^2$/NDF:36.5/36

Out: 1429.986+/-301.884 $\chi^2$/NDF:35.1/39

All: 1617.235+/-213.290 $\chi^2$/NDF: 72.3/76

# reg_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.6/15

Left Out: 1470.919+/-0.249 $\chi^2$/NDF:2399.9/21

Right Out: 1587.461+/-0.417 $\chi^2$/NDF: 171988.2/17

Left In: 1472.721+/-0.251 $\chi^2$/NDF:3923.2/20

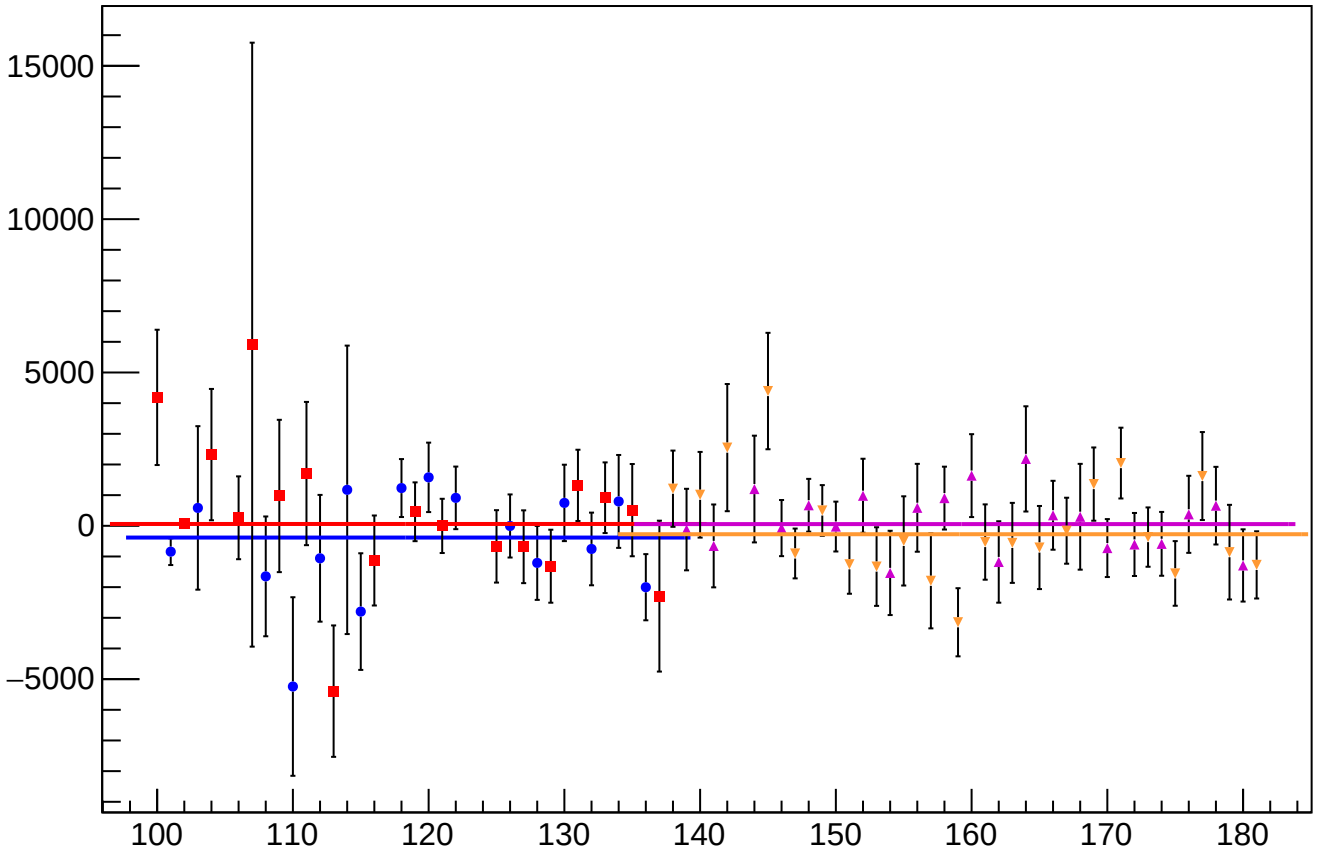
Left: 1471.812+/-0.176 $\chi^2$/NDF: 6349.2/42

Right: 1559.818+/-0.290 $\chi^2$/NDF: 309801.2/33

In: 1489.656+/-0.213 $\chi^2$/NDF:149643.8/36

Out: 1501.480+/-0.213 $\chi^2$/NDF:232054.2/39

All: 1495.558+/-0.151 $\chi^2$/NDF: 383234.8/76




Right In: -382.787+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: -274.216+/-251.133 $\chi^2$/NDF:31.4/21

Right Out: 59.970+/-127.700 $\chi^2$/NDF: 17.8/17

Left In: 56.023+/-252.324 $\chi^2$/NDF:11.0/20

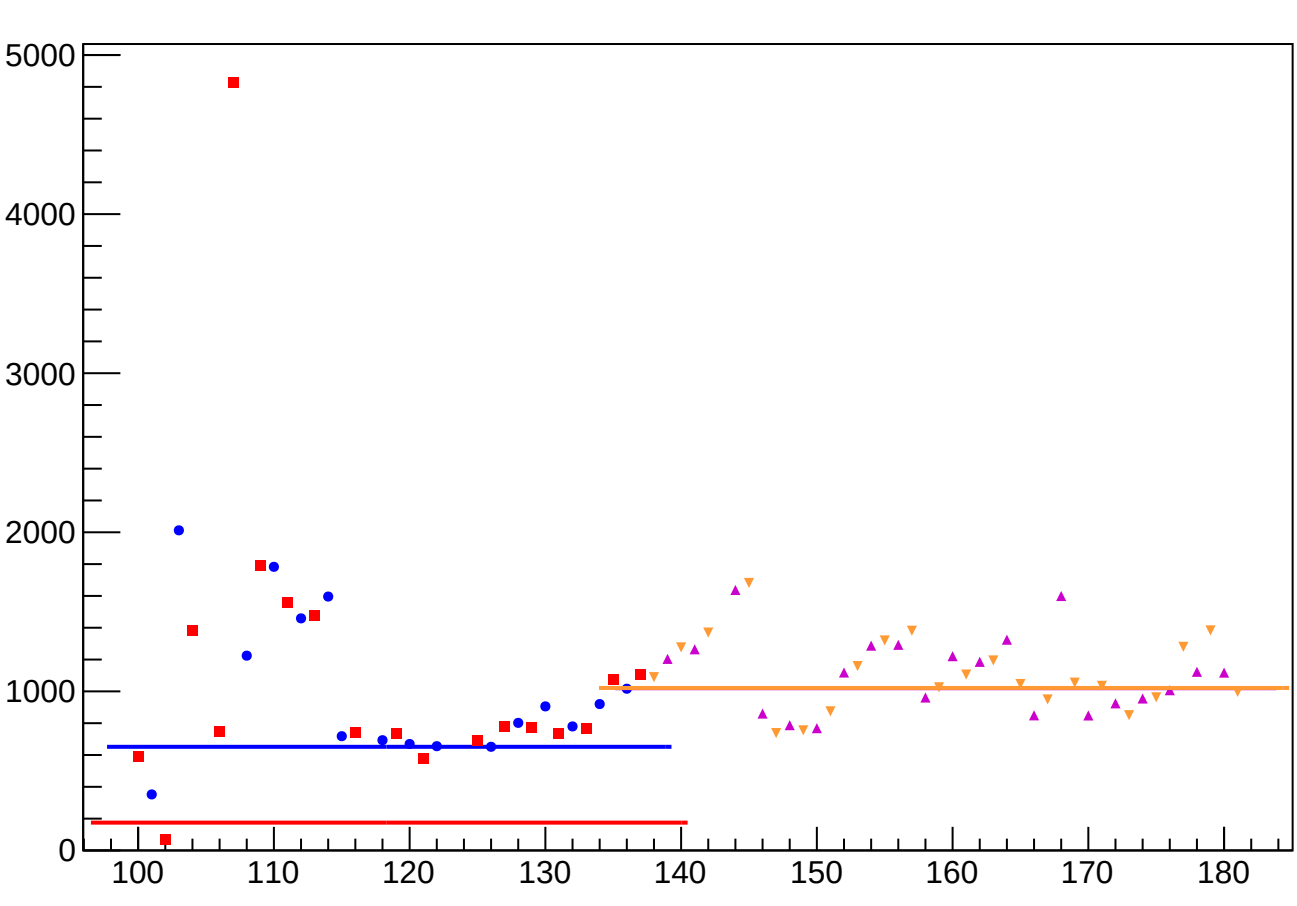
Left: -109.878+/-177.997 $\chi^2$/NDF: 43.2/42

Right: -19.895+/-115.611 $\chi^2$/NDF: 38.1/33

In: -146.771+/-185.051 $\chi^2$/NDF:30.6/36

Out: -8.687+/-113.829 $\chi^2$/NDF:50.5/39

All: -46.593+/-96.955 $\chi^2$/NDF: 81.5/76




Right In: 651.523+/-0.192 $\chi^2$/NDF: 2762656.2/15

Left Out: 1021.506+/-0.178 $\chi^2$/NDF:1385091.7/21

Right Out: 174.898+/-0.090 $\chi^2$/NDF: 9761228.2/17

Left In: 1019.764+/-0.178 $\chi^2$/NDF:1449953.4/20

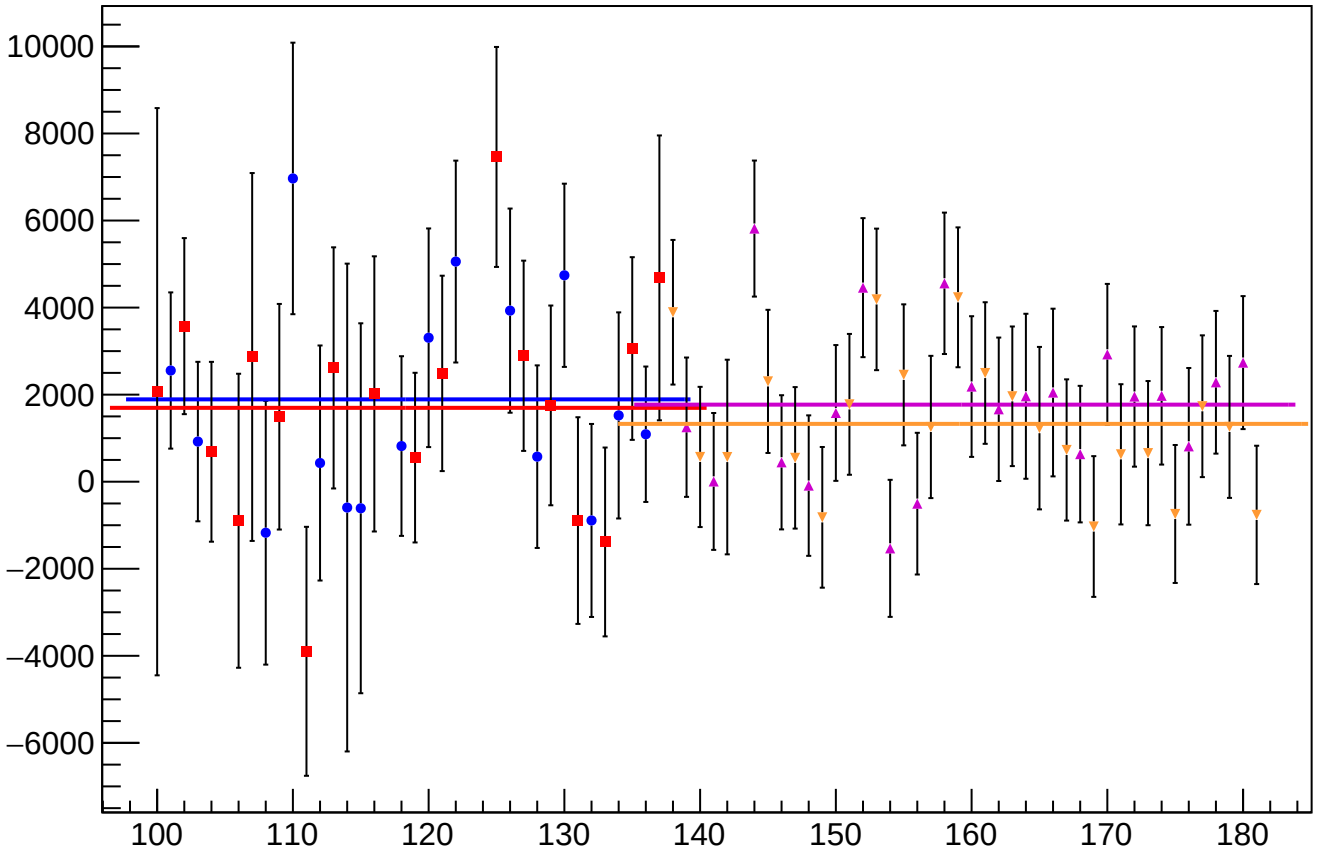
Left: 1020.639+/-0.126 $\chi^2$/NDF: 2835092.9/42

Right: 260.873+/-0.082 $\chi^2$/NDF: 17549506.9/33

In: 849.583+/-0.131 $\chi^2$/NDF:6181201.3/36

Out: 348.832+/-0.080 $\chi^2$/NDF:29206013.8/39

All: 486.293+/-0.069 $\chi^2$/NDF: 46012086.5/76




Right In: 1891.562+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1328.369+/-351.464 $\chi^2$/NDF:18.8/21

Right Out: 1696.987+/-589.699 $\chi^2$/NDF: 16.2/17

Left In: 1770.314+/-354.554 $\chi^2$/NDF:24.2/20

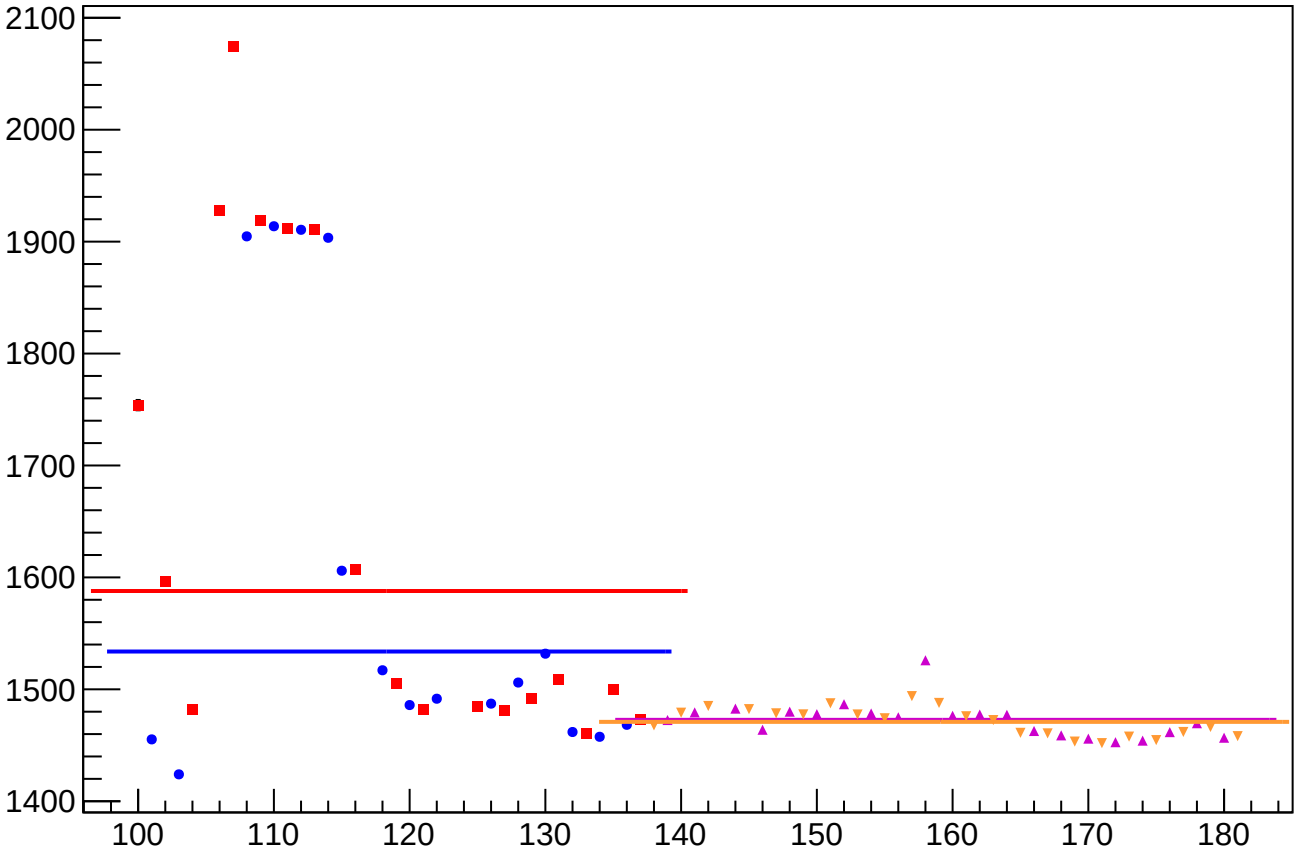
Left: 1547.407+/-249.608 $\chi^2$/NDF: 43.8/42

Right: 1797.197+/-410.670 $\chi^2$/NDF: 28.4/33

In: 1803.948+/-301.392 $\chi^2$/NDF:36.5/36

Out: 1424.989+/-301.909 $\chi^2$/NDF:35.2/39

All: 1614.792+/-213.299 $\chi^2$/NDF: 72.5/76




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.5/15

Left Out: 1470.919+/-0.249 $\chi^2$/NDF:2399.9/21

Right Out: 1587.846+/-0.417 $\chi^2$/NDF: 173766.9/17

Left In: 1472.721+/-0.251 $\chi^2$/NDF:3923.2/20

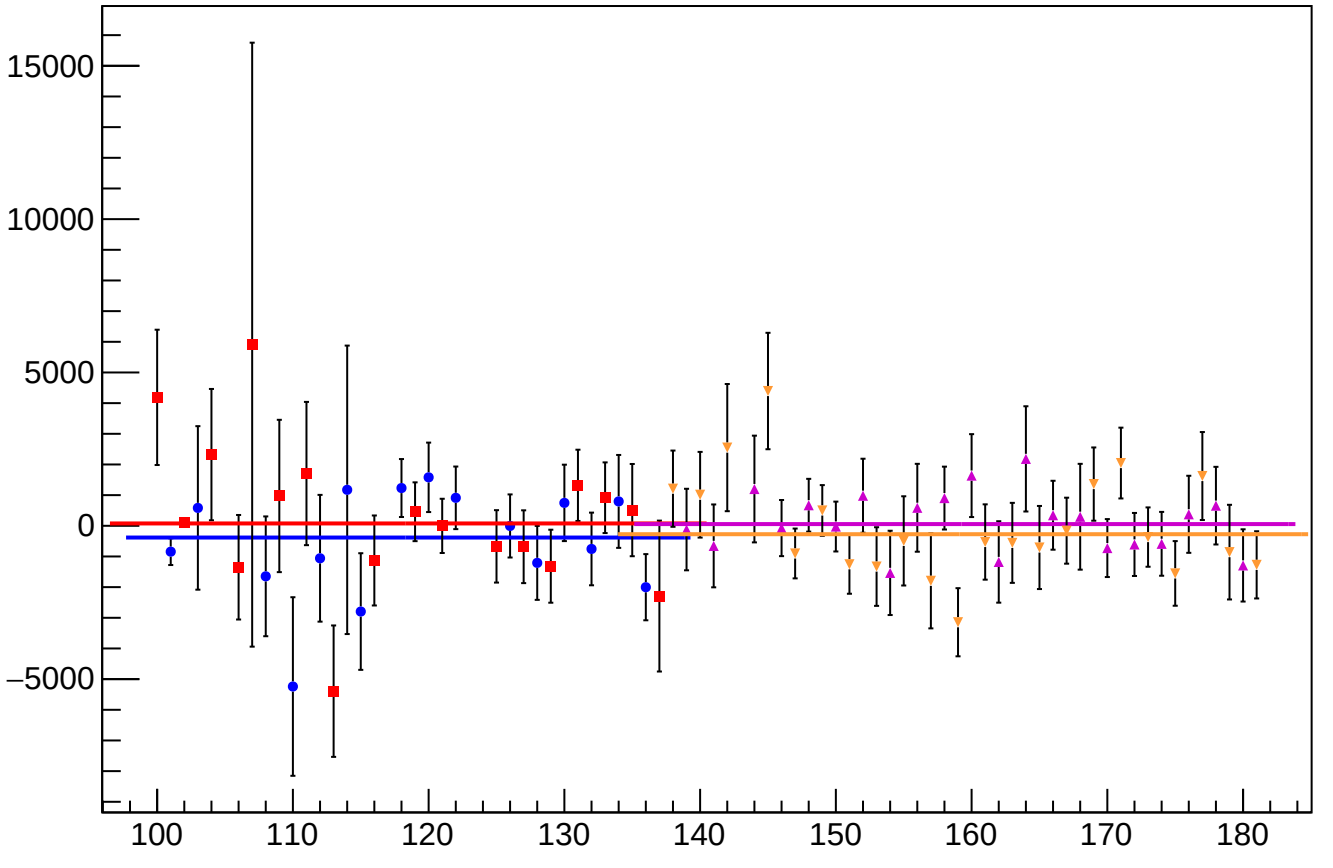
Left: 1471.812+/-0.176 $\chi^2$/NDF: 6349.1/42

Right: 1559.996+/-0.290 $\chi^2$/NDF: 311699.9/33

In: 1489.656+/-0.213 $\chi^2$/NDF:149643.7/36

Out: 1501.568+/-0.213 $\chi^2$/NDF:234188.1/39

All: 1495.601+/-0.151 $\chi^2$/NDF: 385391.2/76




Right In: -382.761+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: -274.179+/-251.133 $\chi^2$/NDF:31.4/21

Right Out: 76.754+/-138.137 $\chi^2$/NDF: 18.5/17

Left In: 56.093+/-252.324 $\chi^2$/NDF:11.0/20

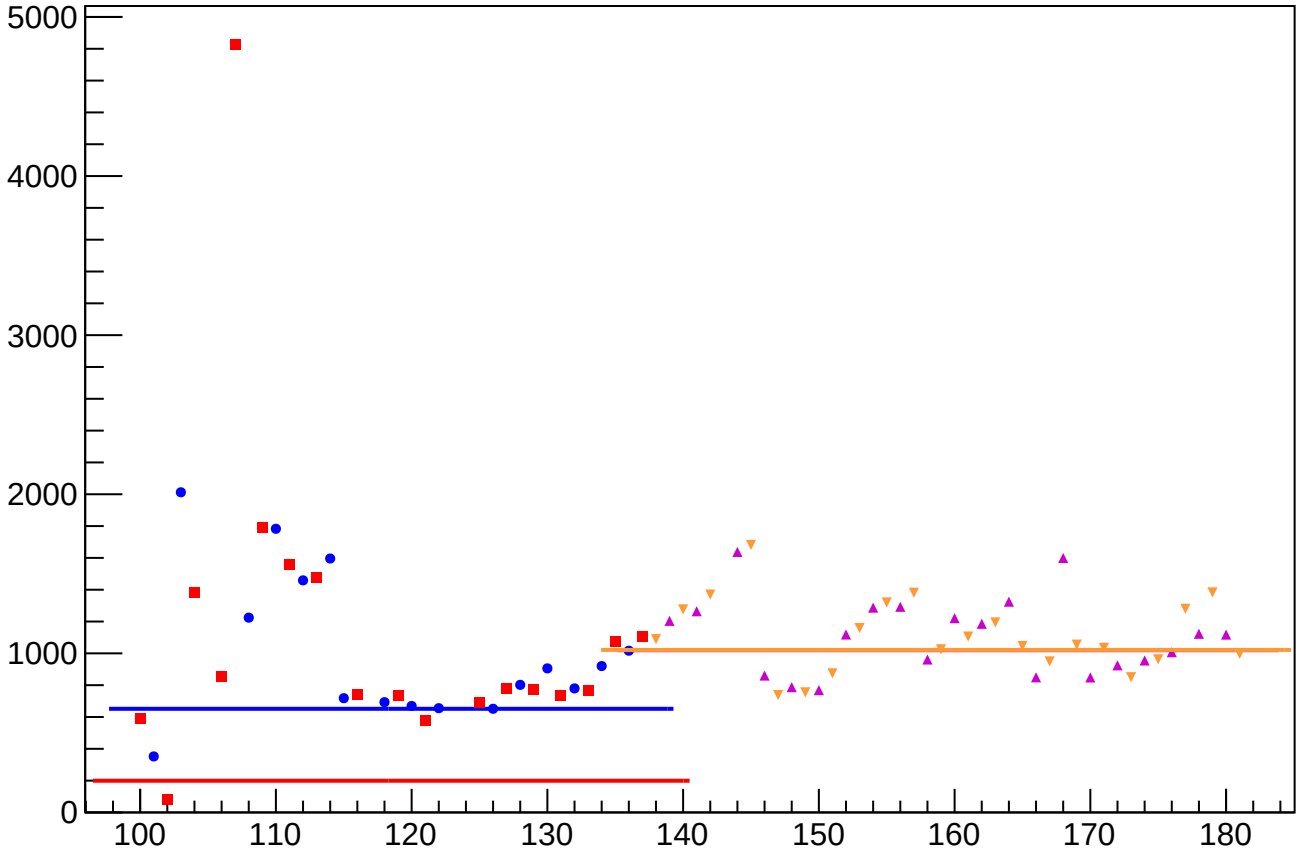
Left: -109.824+/-177.998 $\chi^2$/NDF: 43.2/42

Right: -17.348+/-123.184 $\chi^2$/NDF: 38.9/33

In: -146.722+/-185.051 $\chi^2$/NDF:30.6/36

Out: -4.761+/-121.035 $\chi^2$/NDF:51.3/39

All: -47.296+/-101.293 $\chi^2$/NDF: 82.3/76




Right In: 651.521+/-0.192 $\chi^2$/NDF: 2762681.5/15

Left Out: 1021.508+/-0.178 $\chi^2$/NDF:1385111.6/21

Right Out: 199.344+/-0.098 $\chi^2$/NDF: 9284792.6/17

Left In: 1019.764+/-0.178 $\chi^2$/NDF:1450036.2/20

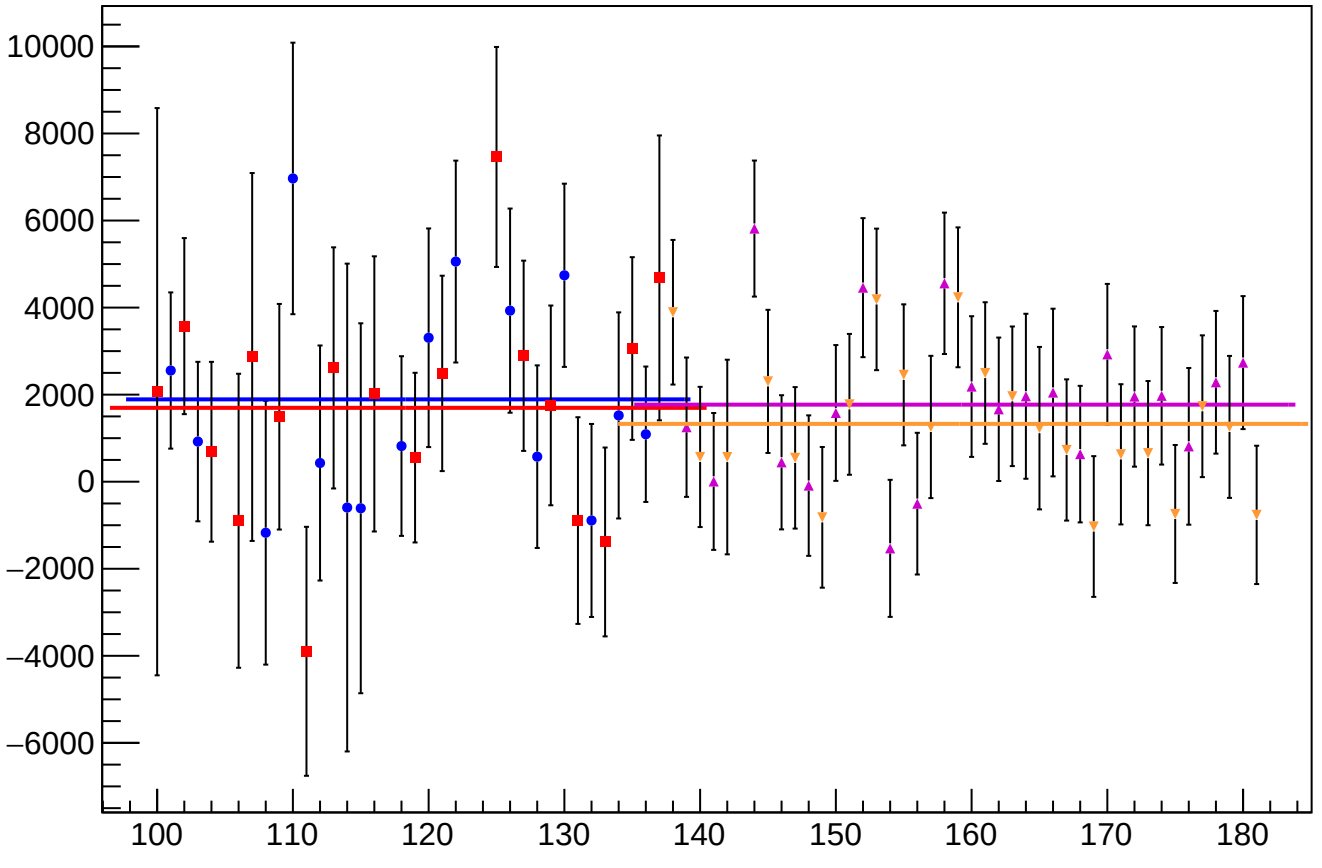
Left: 1020.640+/-0.126 $\chi^2$/NDF: 2835195.7/42

Right: 291.943+/-0.087 $\chi^2$/NDF: 16436092.9/33

In: 849.582+/-0.131 $\chi^2$/NDF:6181323.8/36

Out: 390.317+/-0.086 $\chi^2$/NDF:27126550.7/39

All: 527.923+/-0.072 $\chi^2$/NDF: 41935797.5/76




Right In: 1891.562+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1328.369+/-351.464 $\chi^2$/NDF:18.8/21

Right Out: 1696.987+/-589.699 $\chi^2$/NDF: 16.2/17

Left In: 1770.314+/-354.554 $\chi^2$/NDF:24.2/20

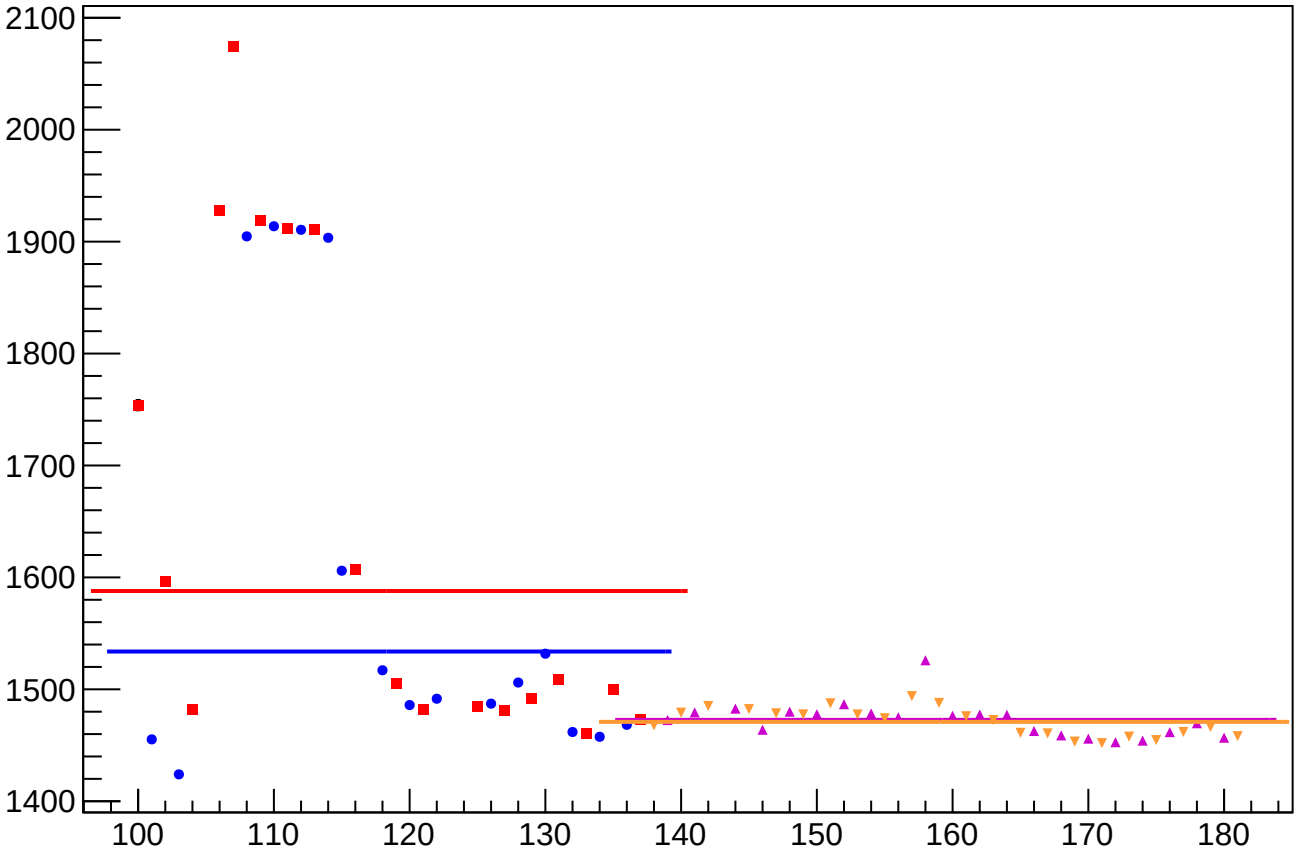
Left: 1547.407+/-249.608 $\chi^2$/NDF: 43.8/42

Right: 1797.197+/-410.670 $\chi^2$/NDF: 28.4/33

In: 1803.948+/-301.392 $\chi^2$/NDF:36.5/36

Out: 1424.989+/-301.909 $\chi^2$/NDF:35.2/39

All: 1614.792+/-213.299 $\chi^2$/NDF: 72.5/76




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.5/15

Left Out: 1470.919+/-0.249 $\chi^2$/NDF:2399.9/21

Right Out: 1587.846+/-0.417 $\chi^2$/NDF: 173766.9/17

Left In: 1472.721+/-0.251 $\chi^2$/NDF:3923.2/20

Left: 1471.812+/-0.176 $\chi^2$/NDF: 6349.1/42

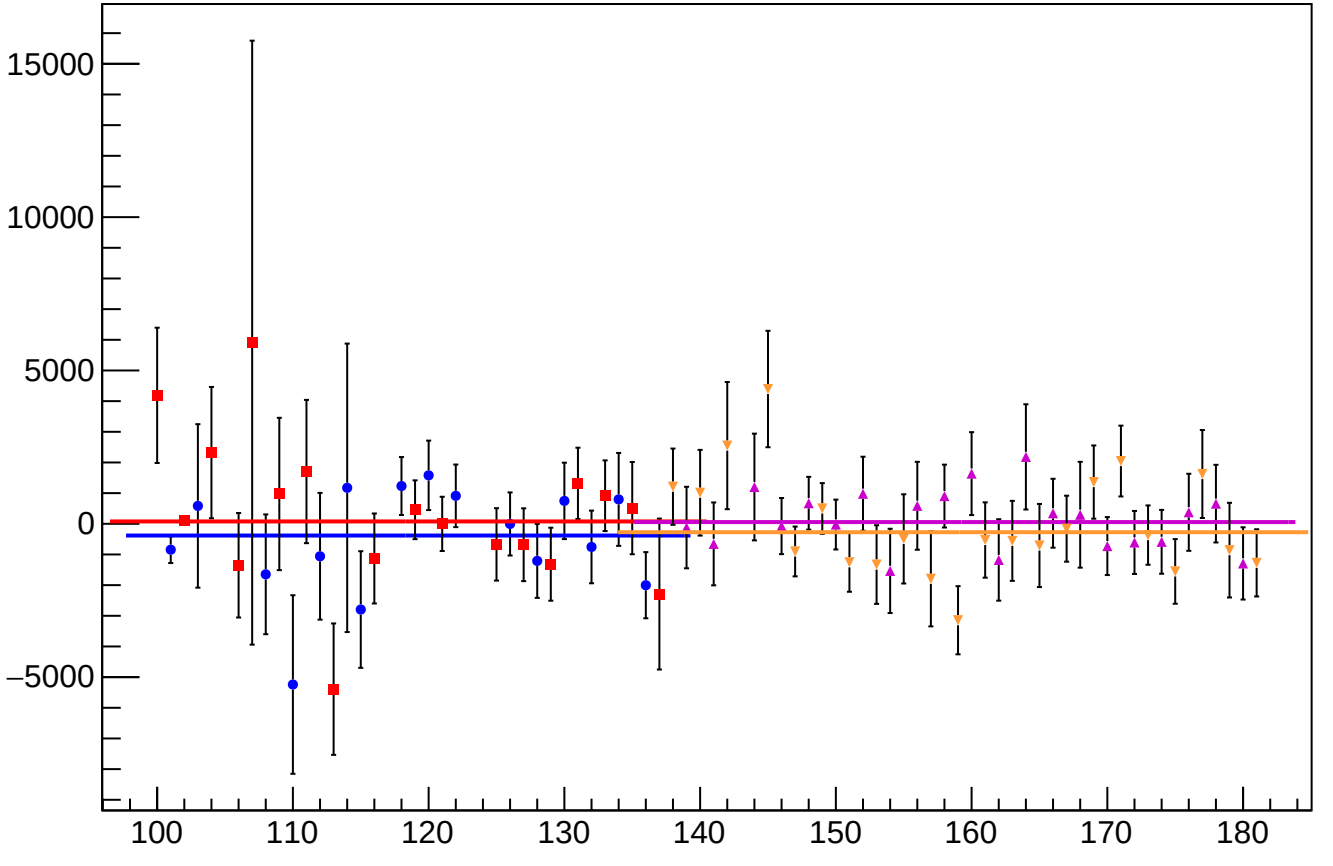
Right: 1559.996+/-0.290 $\chi^2$/NDF: 311699.9/33

In: 1489.656+/-0.213 $\chi^2$/NDF:149643.7/36

Out: 1501.568+/-0.213 $\chi^2$/NDF:234188.1/39

All: 1495.601+/-0.151 $\chi^2$/NDF: 385391.2/76

asym_usl_atl1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -382.761+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: -274.179+/-251.133 $\chi^2$/NDF:31.4/21

Right Out: 76.754+/-138.137 $\chi^2$/NDF: 18.5/17

Left In: 56.093+/-252.324 $\chi^2$/NDF:11.0/20

Left: -109.824+/-177.998 $\chi^2$/NDF: 43.2/42

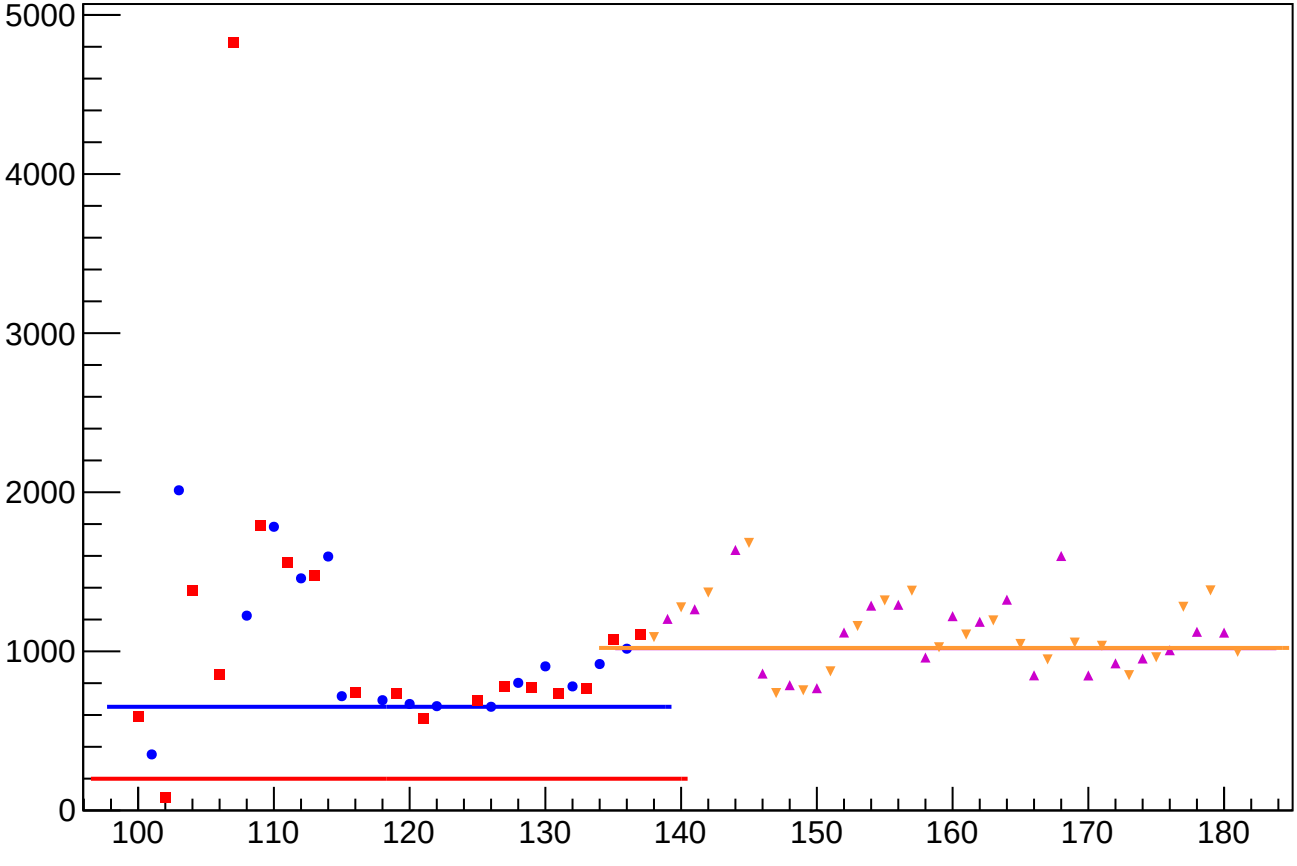
Right: -17.348+/-123.184 $\chi^2$/NDF: 38.9/33

In: -146.722+/-185.051 $\chi^2$/NDF:30.6/36

Out: -4.761+/-121.035 $\chi^2$/NDF:51.3/39

All: -47.296+/-101.293 $\chi^2$/NDF: 82.3/76

asym_usl_atl1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 651.521+/-0.192 $\chi^2$/NDF: 2762681.5/15

Left Out: 1021.508+/-0.178 $\chi^2$/NDF:1385111.6/21

Right Out: 199.344+/-0.098 $\chi^2$/NDF: 9284792.6/17

Left In: 1019.764+/-0.178 $\chi^2$/NDF:1450036.2/20

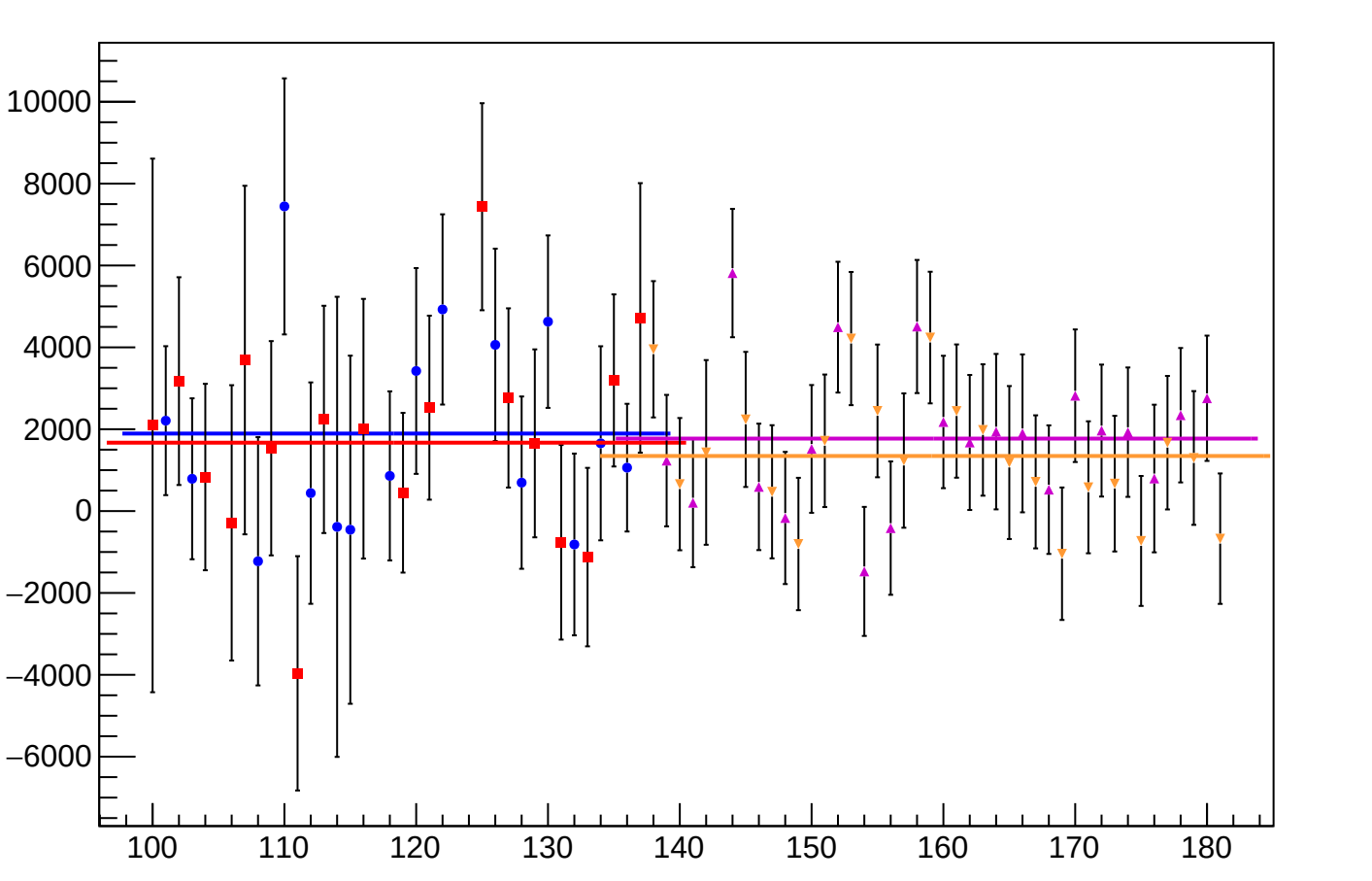
Left: 1020.640+/-0.126 $\chi^2$/NDF: 2835195.7/42

Right: 291.943+/-0.087 $\chi^2$/NDF: 16436092.9/33

In: 849.582+/-0.131 $\chi^2$/NDF:6181323.8/36

Out: 390.317+/-0.086 $\chi^2$/NDF:27126550.7/39

All: 527.923+/-0.072 $\chi^2$/NDF: 41935797.5/76




Right In: 1894.171+/-577.631 $\chi^2$/NDF: 12.3/15

Left Out: 1345.820+/-352.062 $\chi^2$/NDF:18.5/21

Right Out: 1670.933+/-604.838 $\chi^2$/NDF: 15.0/17

Left In: 1770.952+/-355.057 $\chi^2$/NDF:23.6/20

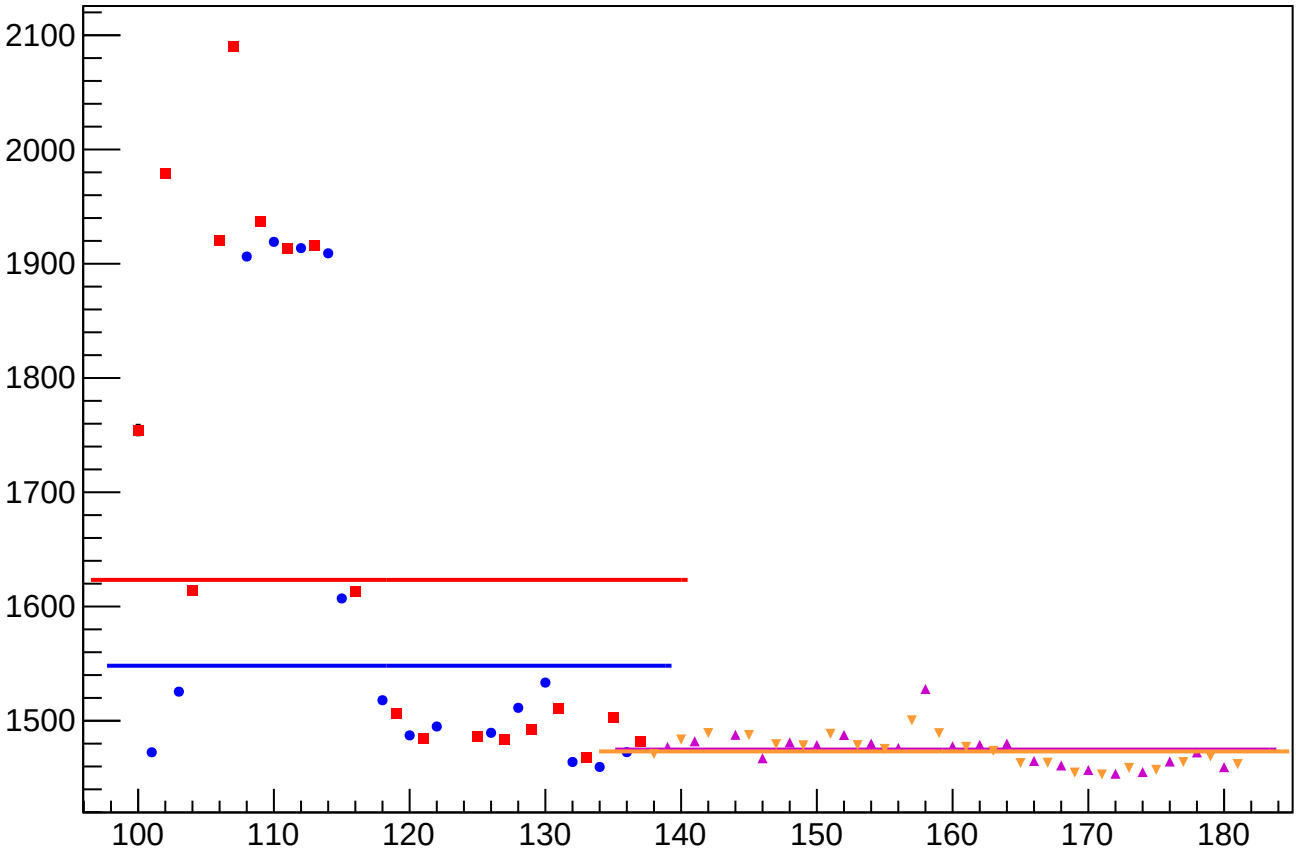
Left: 1556.585+/-249.998 $\chi^2$/NDF: 42.8/42

Right: 1787.686+/-417.734 $\chi^2$/NDF: 27.4/33

In: 1804.742+/-302.483 $\chi^2$/NDF:35.9/36

Out: 1428.096+/-304.270 $\chi^2$/NDF:33.8/39

All: 1617.528+/-214.517 $\chi^2$/NDF: 70.4/76




Right In: 1548.174+/-0.408 $\chi^2$/NDF: 119905.3/15

Left Out: 1473.177+/-0.249 $\chi^2$/NDF:2603.3/21

Right Out: 1623.331+/-0.428 $\chi^2$/NDF: 211534.0/17

Left In: 1474.794+/-0.251 $\chi^2$/NDF:3966.3/20

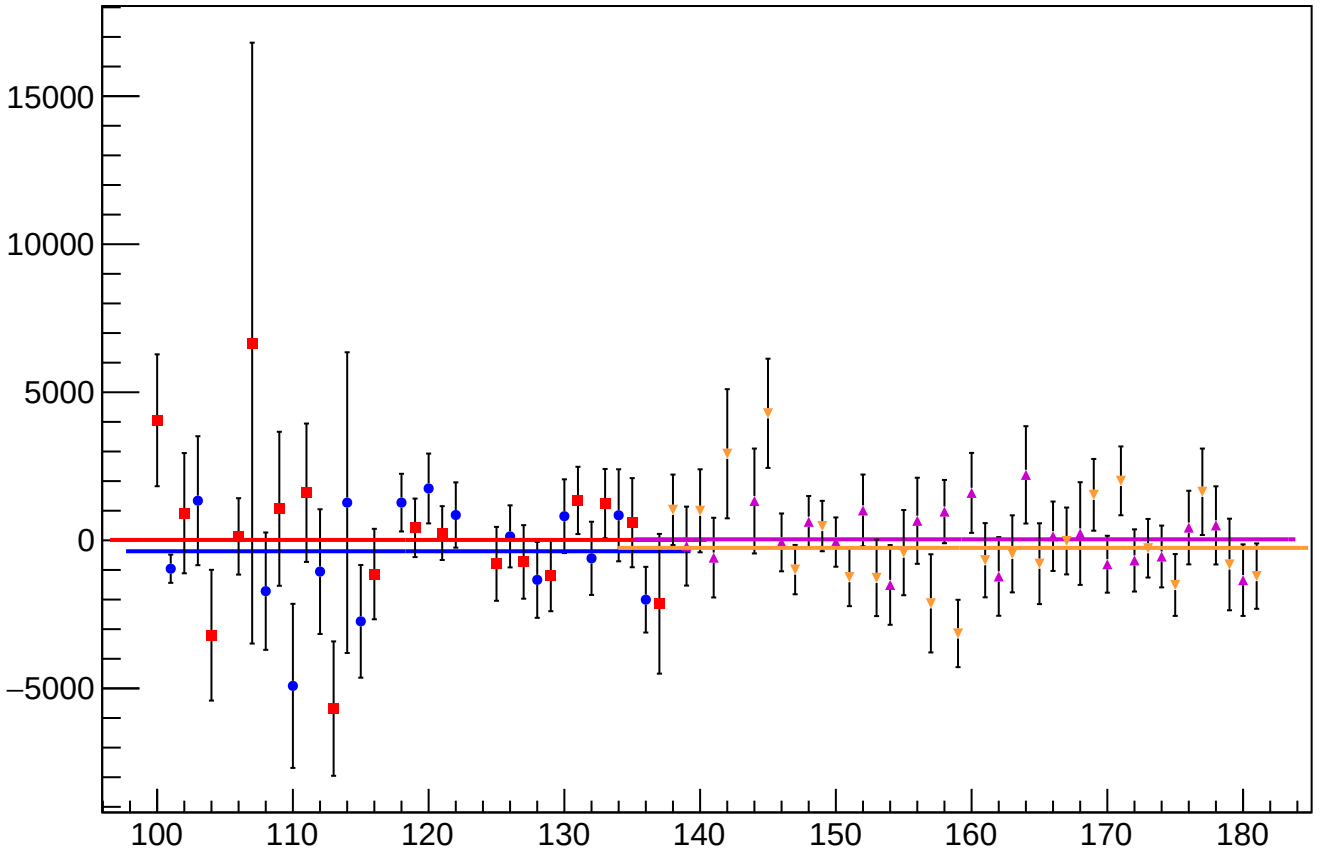
Left: 1473.979+/-0.177 $\chi^2$/NDF: 6590.5/42

Right: 1584.024+/-0.295 $\chi^2$/NDF: 347589.8/33

In: 1494.916+/-0.214 $\chi^2$/NDF:147297.3/36

Out: 1511.177+/-0.215 $\chi^2$/NDF:306203.7/39

All: 1502.998+/-0.152 $\chi^2$/NDF: 456373.7/76




Right In: -368.708+/-286.577 $\chi^2$/NDF: 18.9/15

Left Out: -255.064+/-254.662 $\chi^2$/NDF:31.4/21

Right Out: 13.729+/-341.569 $\chi^2$/NDF: 19.1/17

Left In: 34.598+/-256.560 $\chi^2$/NDF:11.3/20

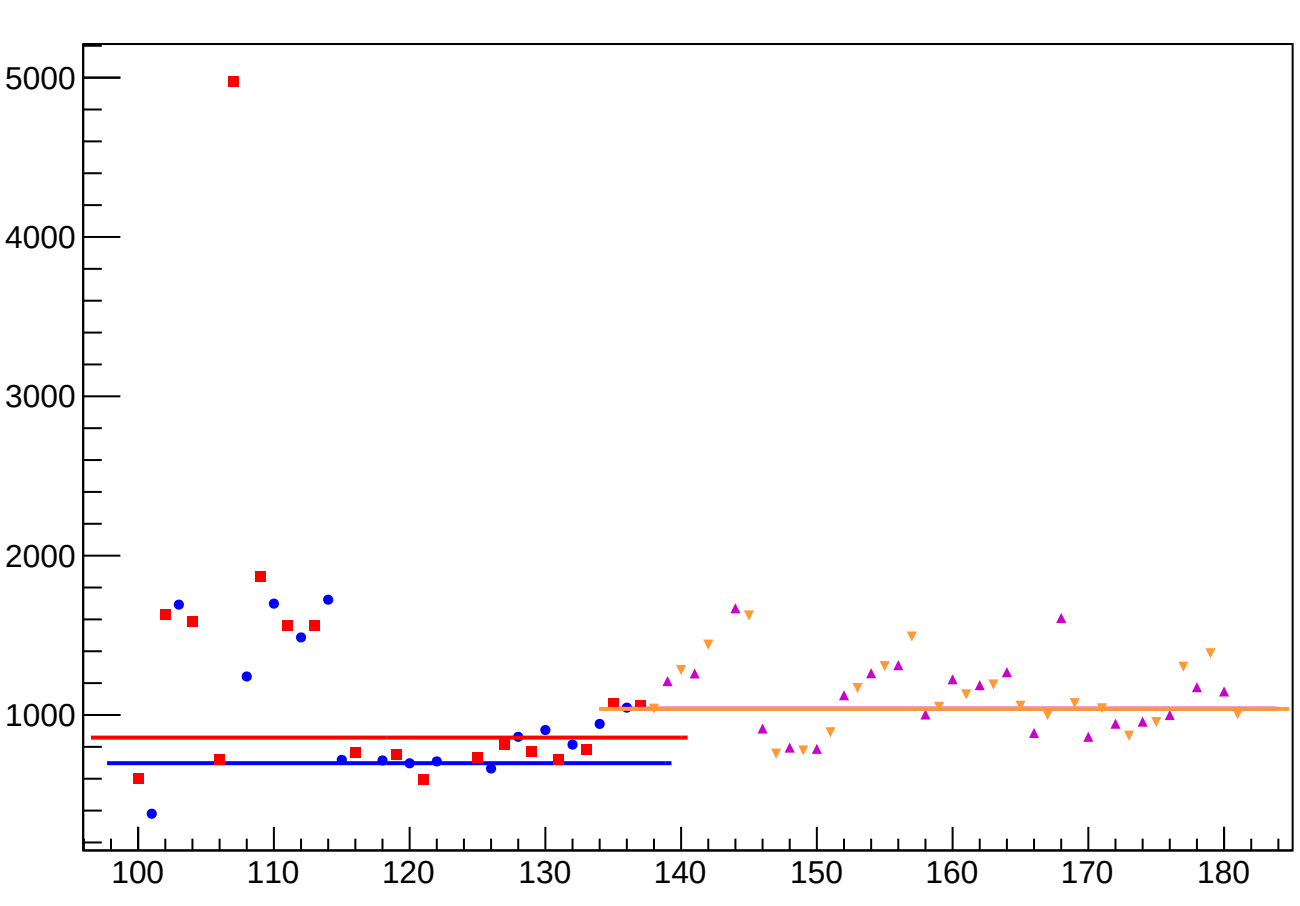
Left: -111.308+/-180.741 $\chi^2$/NDF: 43.3/42

Right: -210.716+/-219.541 $\chi^2$/NDF: 38.7/33

In: -144.834+/-191.150 $\chi^2$/NDF:31.2/36

Out: -159.031+/-204.164 $\chi^2$/NDF:50.8/39

All: -151.466+/-139.537 $\chi^2$/NDF: 82.1/76




Right In: 697.517+/-0.203 $\chi^2$/NDF: 2435601.0/15

Left Out: 1038.100+/-0.180 $\chi^2$/NDF:1314558.8/21

Right Out: 858.095+/-0.242 $\chi^2$/NDF: 1882164.5/17

Left In: 1039.879+/-0.181 $\chi^2$/NDF:1336266.4/20

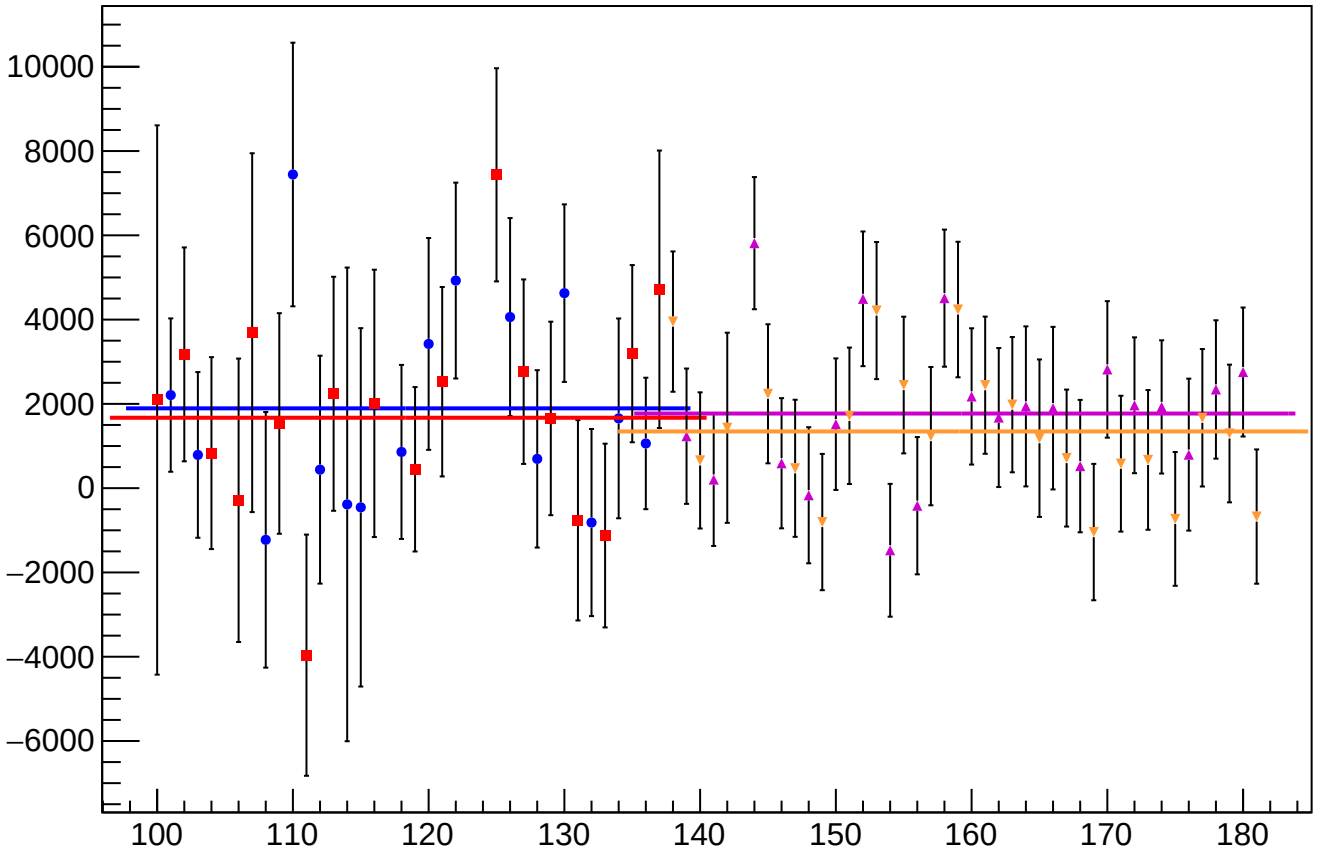
Left: 1038.983+/-0.128 $\chi^2$/NDF: 2650873.6/42

Right: 763.855+/-0.155 $\chi^2$/NDF: 4577183.5/33

In: 887.560+/-0.135 $\chi^2$/NDF:5356353.7/36

Out: 973.789+/-0.144 $\chi^2$/NDF:3553723.8/39

All: 927.839+/-0.099 $\chi^2$/NDF: 9100191.1/76




Right In: 1894.169+/-577.630 $\chi^2$/NDF: 12.3/15

Left Out: 1345.818+/-352.062 $\chi^2$/NDF:18.5/21

Right Out: 1670.931+/-604.838 $\chi^2$/NDF: 15.0/17

Left In: 1770.953+/-355.057 $\chi^2$/NDF:23.6/20

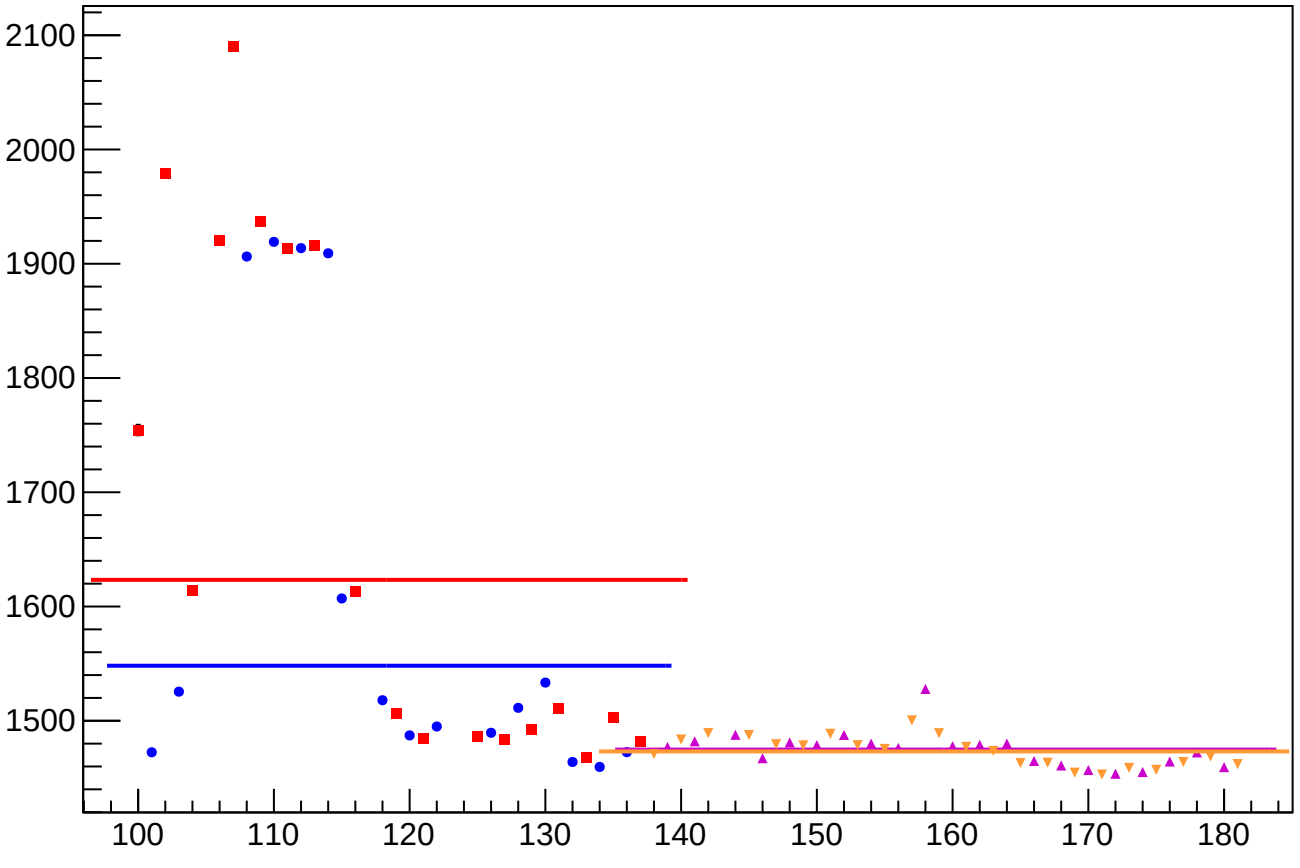
Left: 1556.585+/-249.998 $\chi^2$/NDF: 42.8/42

Right: 1787.684+/-417.734 $\chi^2$/NDF: 27.4/33

In: 1804.742+/-302.483 $\chi^2$/NDF:35.9/36

Out: 1428.094+/-304.270 $\chi^2$/NDF:33.8/39

All: 1617.527+/-214.517 $\chi^2$/NDF: 70.4/76




Right In: 1548.174+/-0.408 $\chi^2$/NDF: 119905.4/15

Left Out: 1473.177+/-0.249 $\chi^2$/NDF:2603.3/21

Right Out: 1623.330+/-0.428 $\chi^2$/NDF: 211533.9/17

Left In: 1474.794+/-0.251 $\chi^2$/NDF:3966.3/20

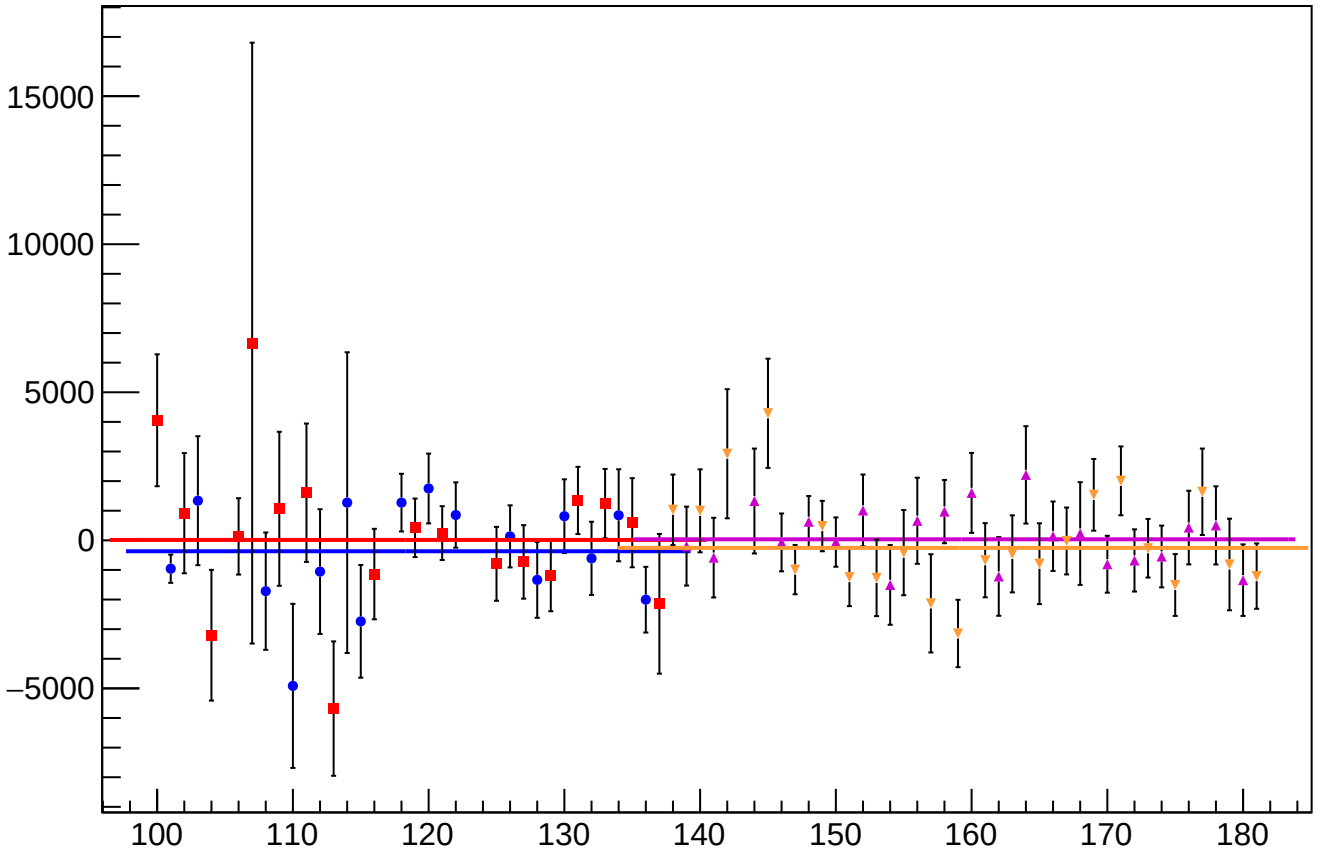
Left: 1473.979+/-0.177 $\chi^2$/NDF: 6590.5/42

Right: 1584.024+/-0.295 $\chi^2$/NDF: 347589.7/33

In: 1494.916+/-0.214 $\chi^2$/NDF:147297.2/36

Out: 1511.177+/-0.215 $\chi^2$/NDF:306203.2/39

All: 1502.998+/-0.152 $\chi^2$/NDF: 456373.1/76




Right In: -368.707+/-286.576 $\chi^2$/NDF: 18.9/15

Left Out: -255.066+/-254.663 $\chi^2$/NDF:31.4/21

Right Out: 13.730+/-341.568 $\chi^2$/NDF: 19.1/17

Left In: 34.598+/-256.561 $\chi^2$/NDF:11.3/20

Left: -111.309+/-180.741 $\chi^2$/NDF: 43.3/42

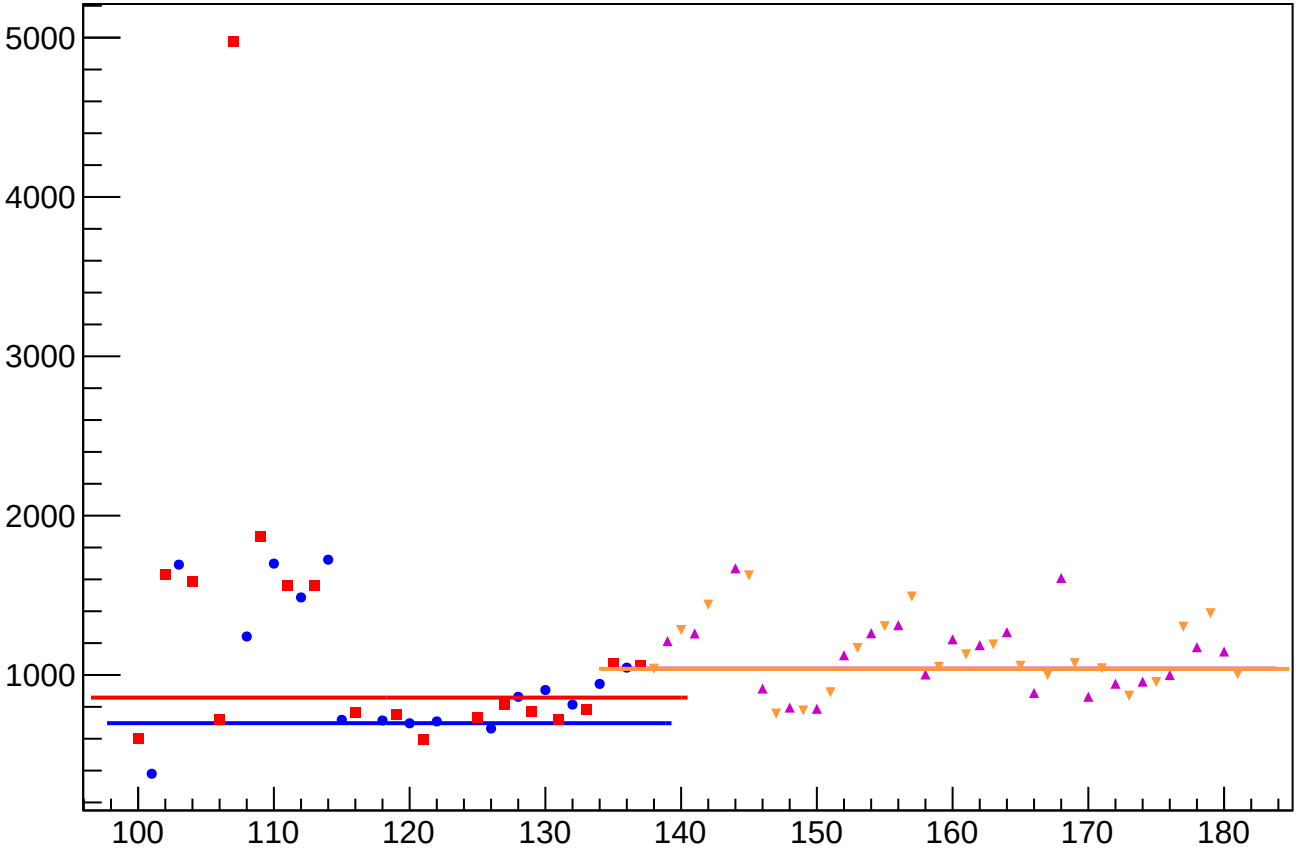
Right: -210.715+/-219.541 $\chi^2$/NDF: 38.7/33

In: -144.834+/-191.150 $\chi^2$/NDF:31.2/36

Out: -159.032+/-204.164 $\chi^2$/NDF:50.8/39

All: -151.466+/-139.537 $\chi^2$/NDF: 82.1/76

asym_usl_atl1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 697.517+/-0.203 $\chi^2$/NDF: 2435593.9/15

Left Out: 1038.102+/-0.180 $\chi^2$/NDF:1314557.0/21

Right Out: 858.094+/-0.242 $\chi^2$/NDF: 1882174.1/17

Left In: 1039.880+/-0.181 $\chi^2$/NDF:1336262.7/20

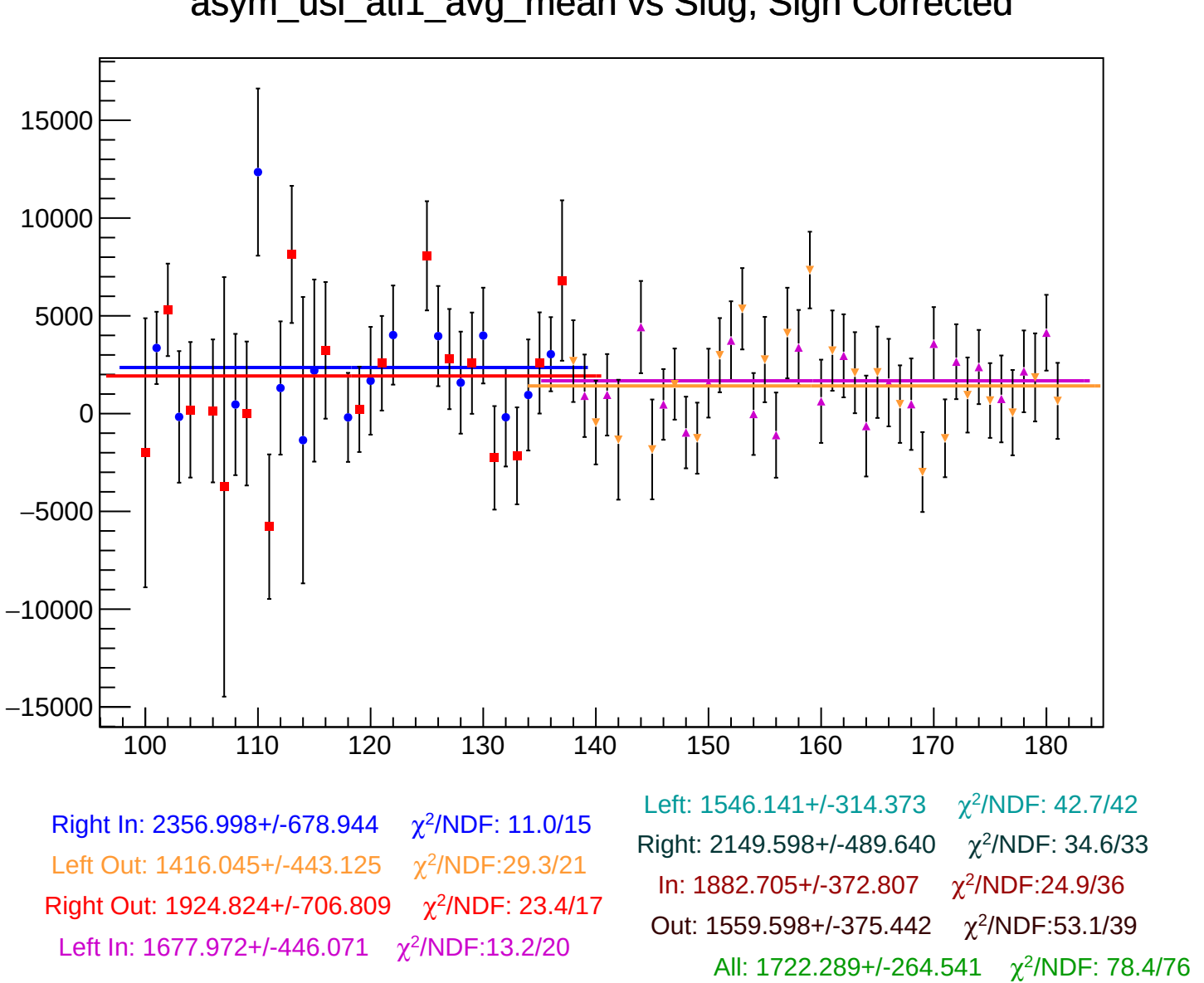
Left: 1038.984+/-0.128 $\chi^2$/NDF: 2650868.1/42

Right: 763.854+/-0.155 $\chi^2$/NDF: 4577181.2/33

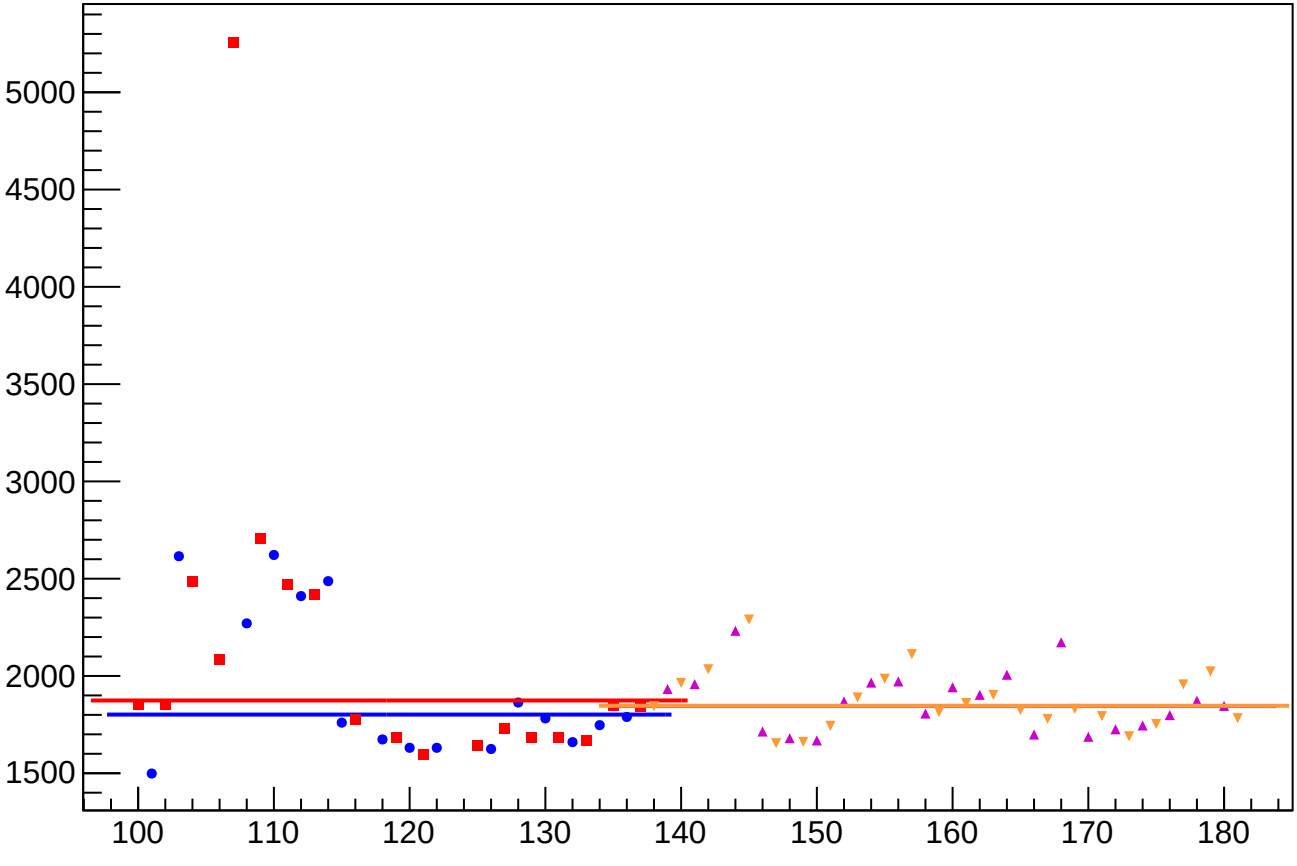
In: 887.561+/-0.135 $\chi^2$/NDF:5356355.5/36

Out: 973.790+/-0.144 $\chi^2$/NDF:3553744.3/39

All: 927.840+/-0.099 $\chi^2$/NDF: 9100211.1/76


asym_usl_atl1_avg_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 2356.998+/-678.944 χ²/NDF: 11.0/15
Left Out: 1416.045+/-443.125 χ²/NDF:29.3/21
Right Out: 1924.824+/-706.809 χ²/NDF: 23.4/17
Left In: 1677.972+/-446.071 χ²/NDF:13.2/20
Left: 1546.141+/-314.373 χ²/NDF: 42.7/42
Right: 2149.598+/-489.640 χ²/NDF: 34.6/33
In: 1882.705+/-372.807 χ²/NDF:24.9/36
Out: 1559.598+/-375.442 χ²/NDF:53.1/39
All: 1722.289+/-264.541 χ²/NDF: 78.4/76

# asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1801.529+/-0.480 $\chi^2$/NDF: 400702.5/15

Left Out: 1846.877+/-0.313 $\chi^2$/NDF:201847.4/21

Right Out: 1873.976+/-0.500 $\chi^2$/NDF: 569909.0/17

Left In: 1845.284+/-0.315 $\chi^2$/NDF:214419.8/20

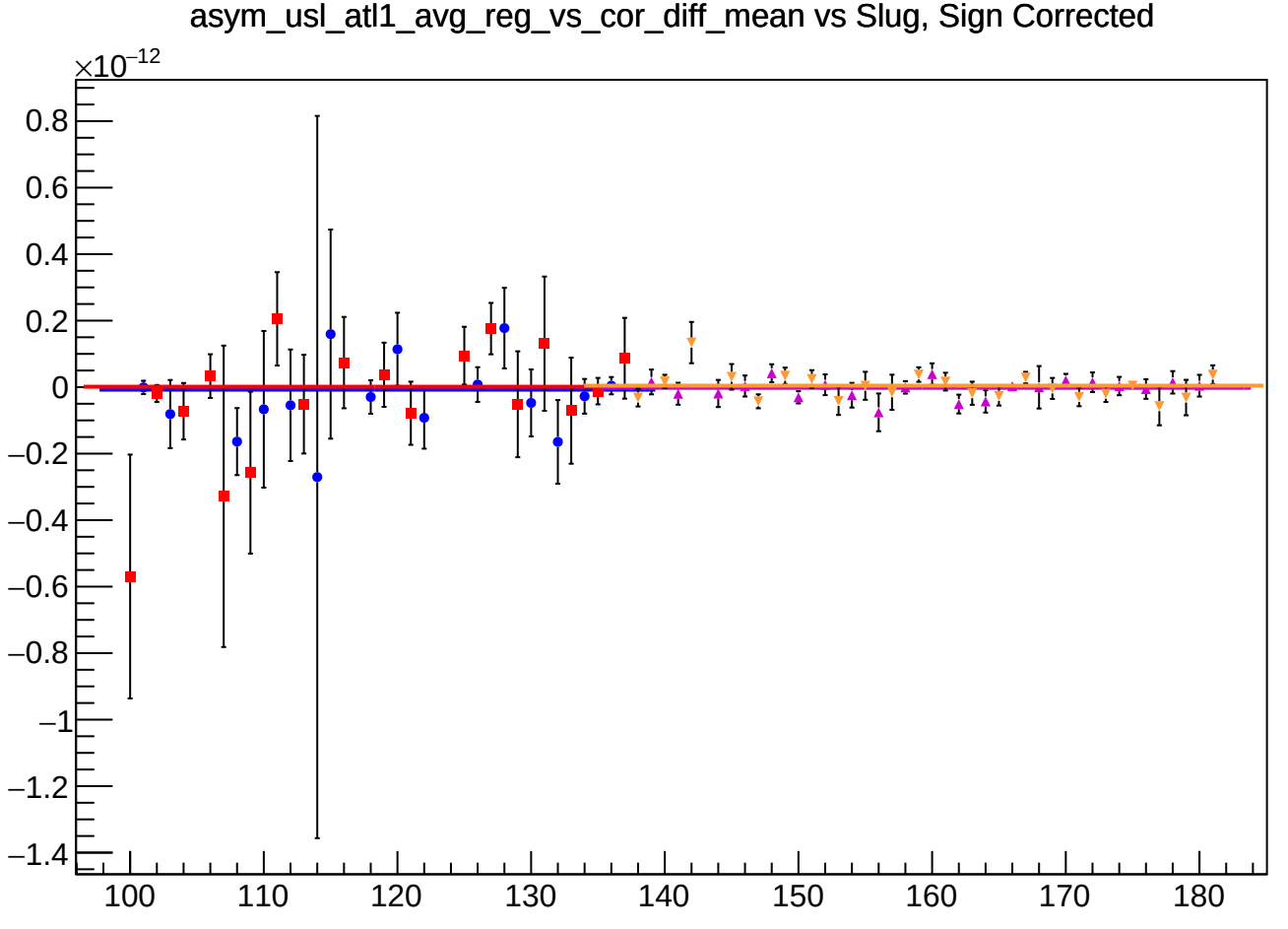
Left: 1846.085+/-0.222 $\chi^2$/NDF: 416280.1/42

Right: 1836.296+/-0.346 $\chi^2$/NDF: 981540.0/33

In: 1832.091+/-0.264 $\chi^2$/NDF:620924.3/36

Out: 1854.523+/-0.265 $\chi^2$/NDF:773866.9/39

All: 1843.228+/-0.187 $\chi^2$/NDF: 1398386.1/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:26.8/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.7/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.0/20

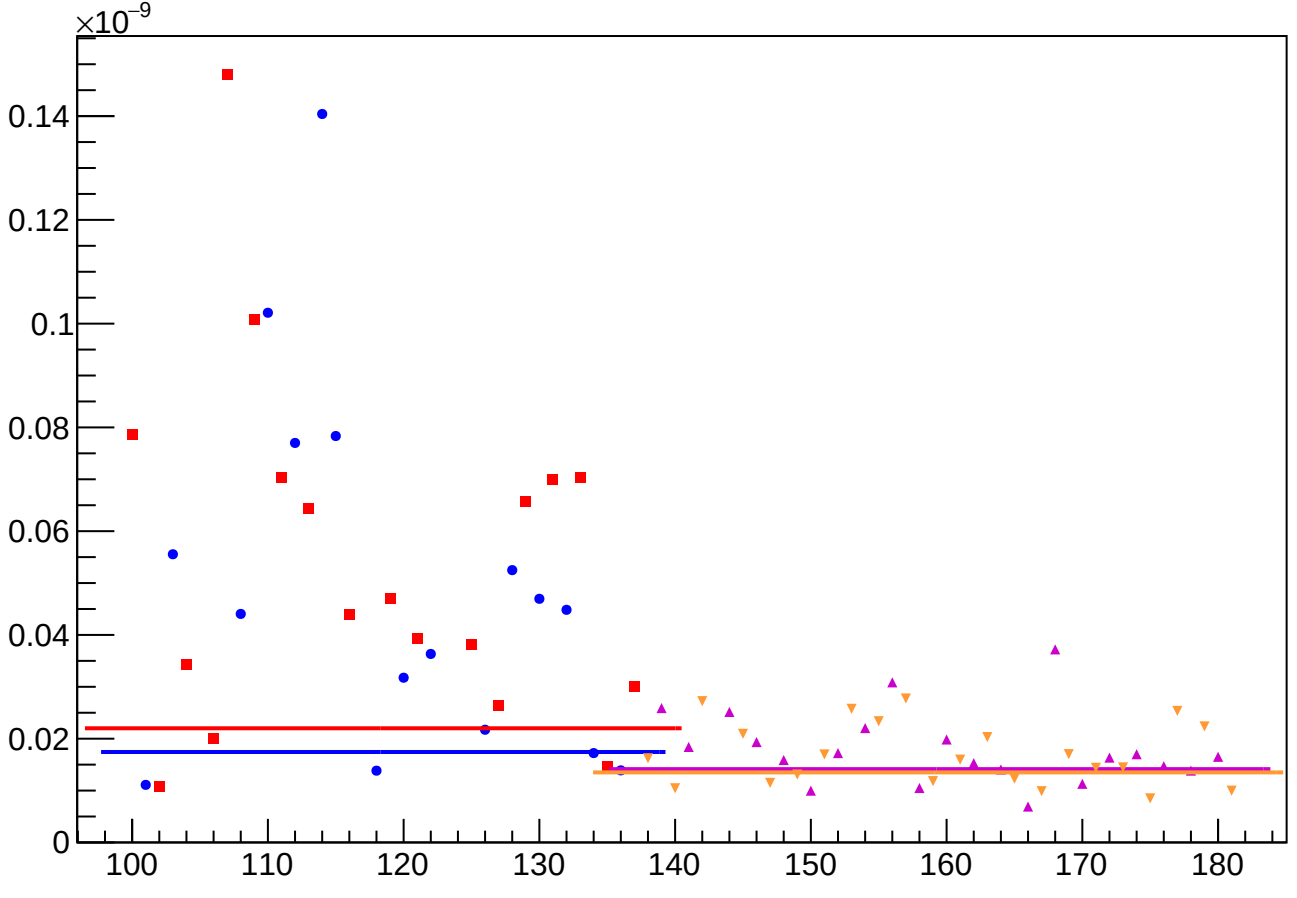
Left: 0.000+/-0.000 $\chi^2$/NDF: 43.4/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:26.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:43.5/39

All: 0.000+/-0.000 $\chi^2$/NDF: 70.7/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1840069.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1340165.4/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2098640.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1783172.3/20

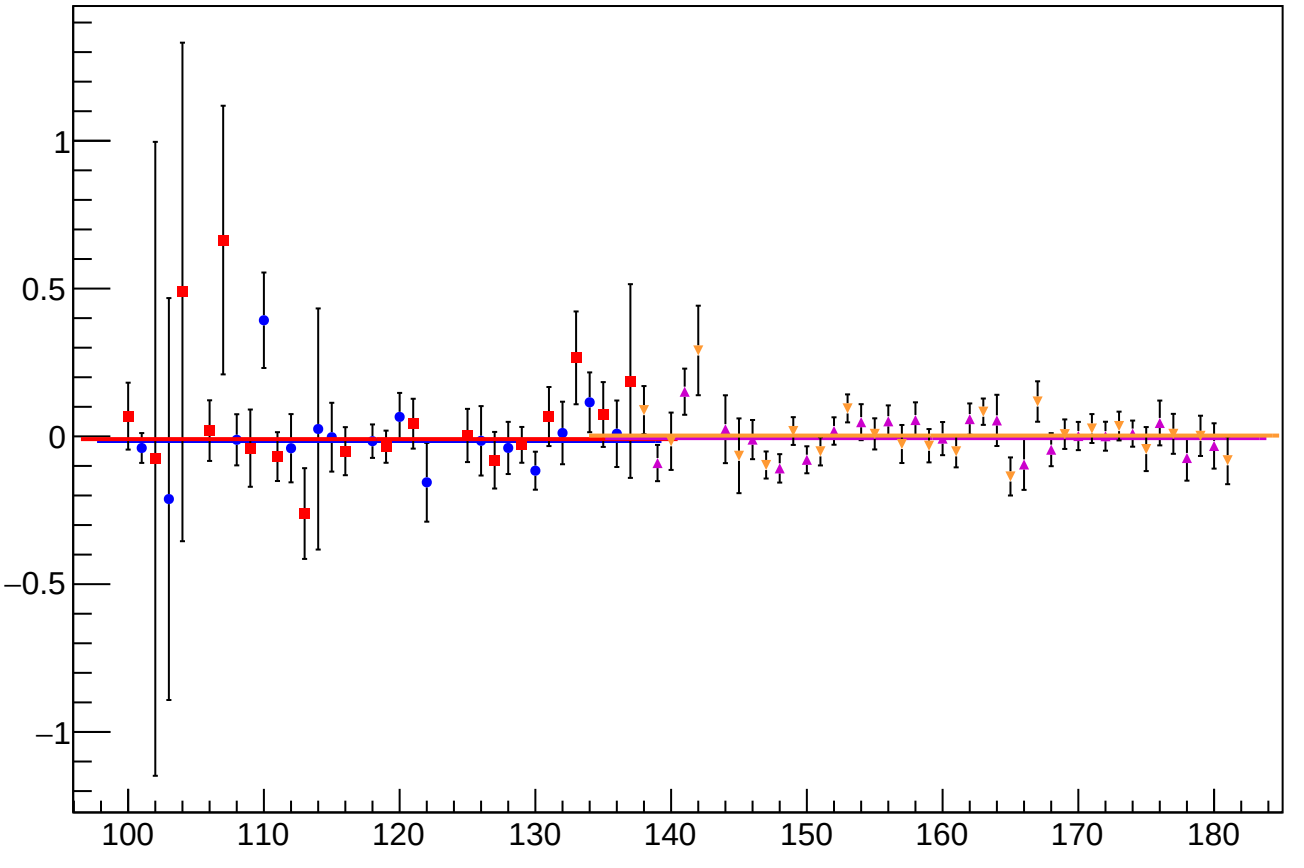
Left: 0.000+/-0.000 $\chi^2$/NDF: 3135077.9/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 4028264.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:3728218.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:3881727.4/39

All: 0.000+/-0.000 $\chi^2$/NDF: 7614079.2/76




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: 0.003+/-0.012 $\chi^2$/NDF:29.3/21

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: -0.006+/-0.013 $\chi^2$/NDF:21.4/20

Left: -0.002+/-0.009 $\chi^2$/NDF: 50.9/42

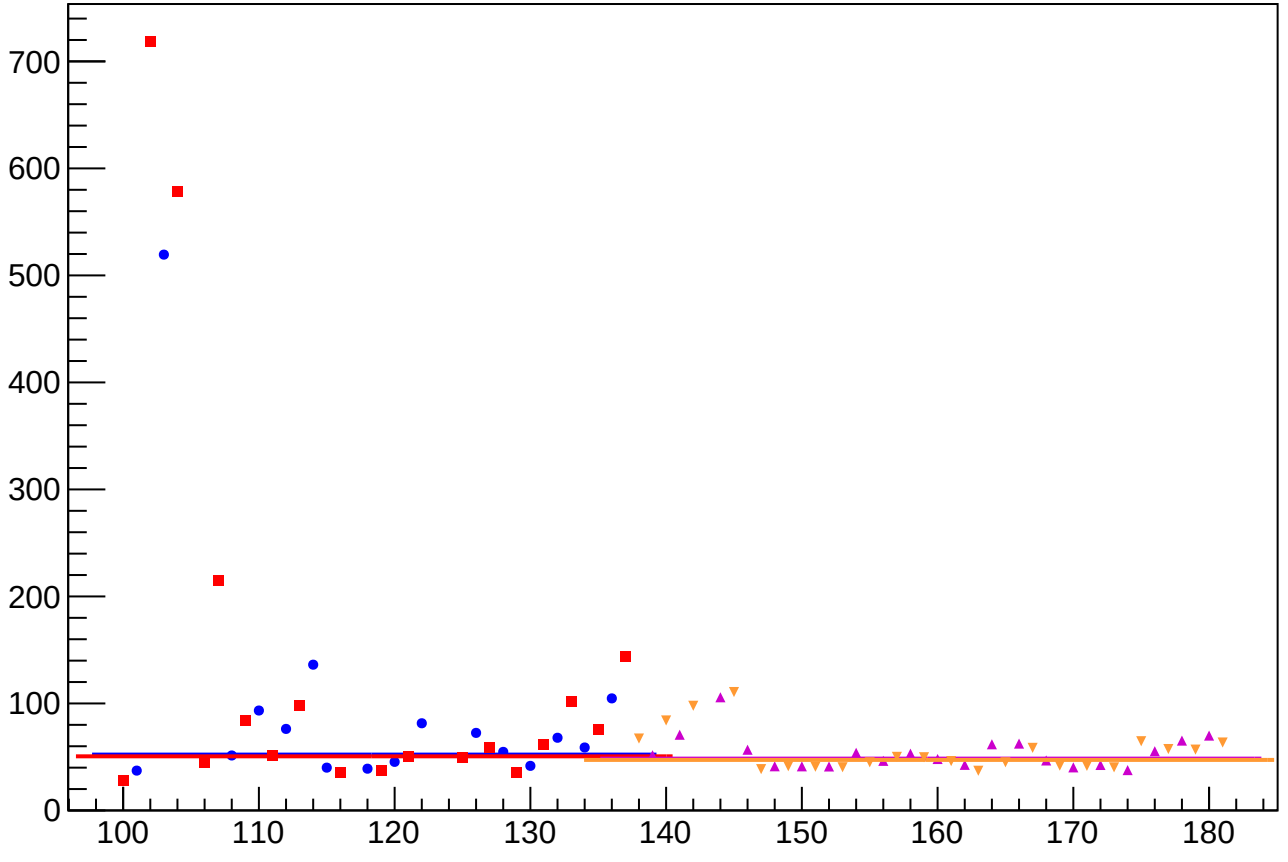
Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.008+/-0.011 $\chi^2$/NDF:34.7/36

Out: 0.000+/-0.011 $\chi^2$/NDF:42.0/39

All: -0.004+/-0.008 $\chi^2$/NDF: 77.0/76

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266928.1/15

Left Out: 47.236+/-0.009 $\chi^2$/NDF:1853679.2/21

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051379.6/17

Left In: 48.442+/-0.009 $\chi^2$/NDF:1478052.3/20

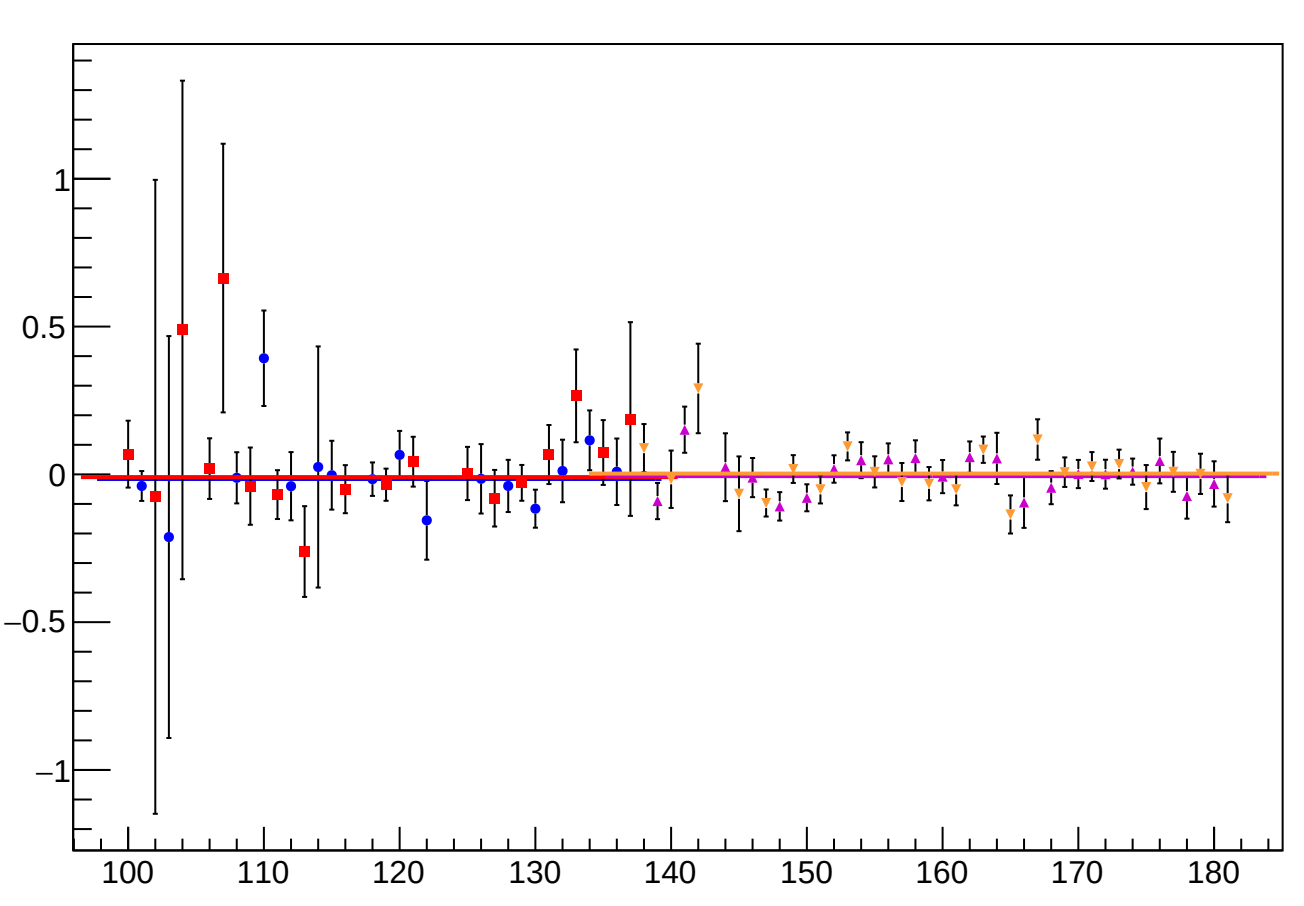
Left: 47.827+/-0.006 $\chi^2$/NDF: 3340853.6/42

Right: 51.419+/-0.012 $\chi^2$/NDF: 5323147.3/33

In: 49.344+/-0.008 $\chi^2$/NDF:3786603.4/36

Out: 47.969+/-0.008 $\chi^2$/NDF:4936466.1/39

All: 48.653+/-0.006 $\chi^2$/NDF: 8738486.5/76




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: 0.003+/-0.012 $\chi^2$/NDF:29.3/21

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: -0.006+/-0.013 $\chi^2$/NDF:21.4/20

Left: -0.002+/-0.009 $\chi^2$/NDF: 50.9/42

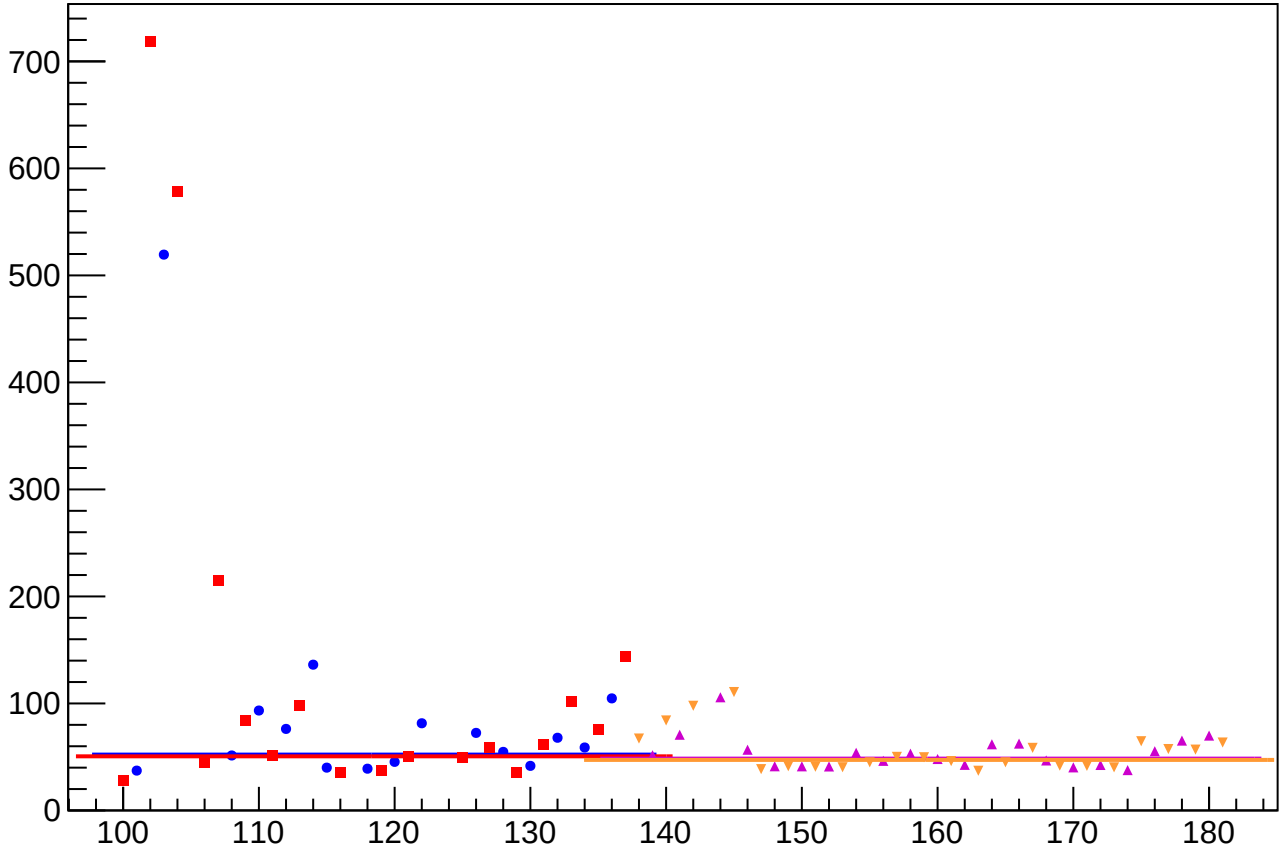
Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.008+/-0.011 $\chi^2$/NDF:34.7/36

Out: 0.000+/-0.011 $\chi^2$/NDF:42.0/39

All: -0.004+/-0.008 $\chi^2$/NDF: 77.0/76

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266928.1/15

Left Out: 47.236+/-0.009 $\chi^2$/NDF:1853679.2/21

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051379.6/17

Left In: 48.442+/-0.009 $\chi^2$/NDF:1478052.3/20

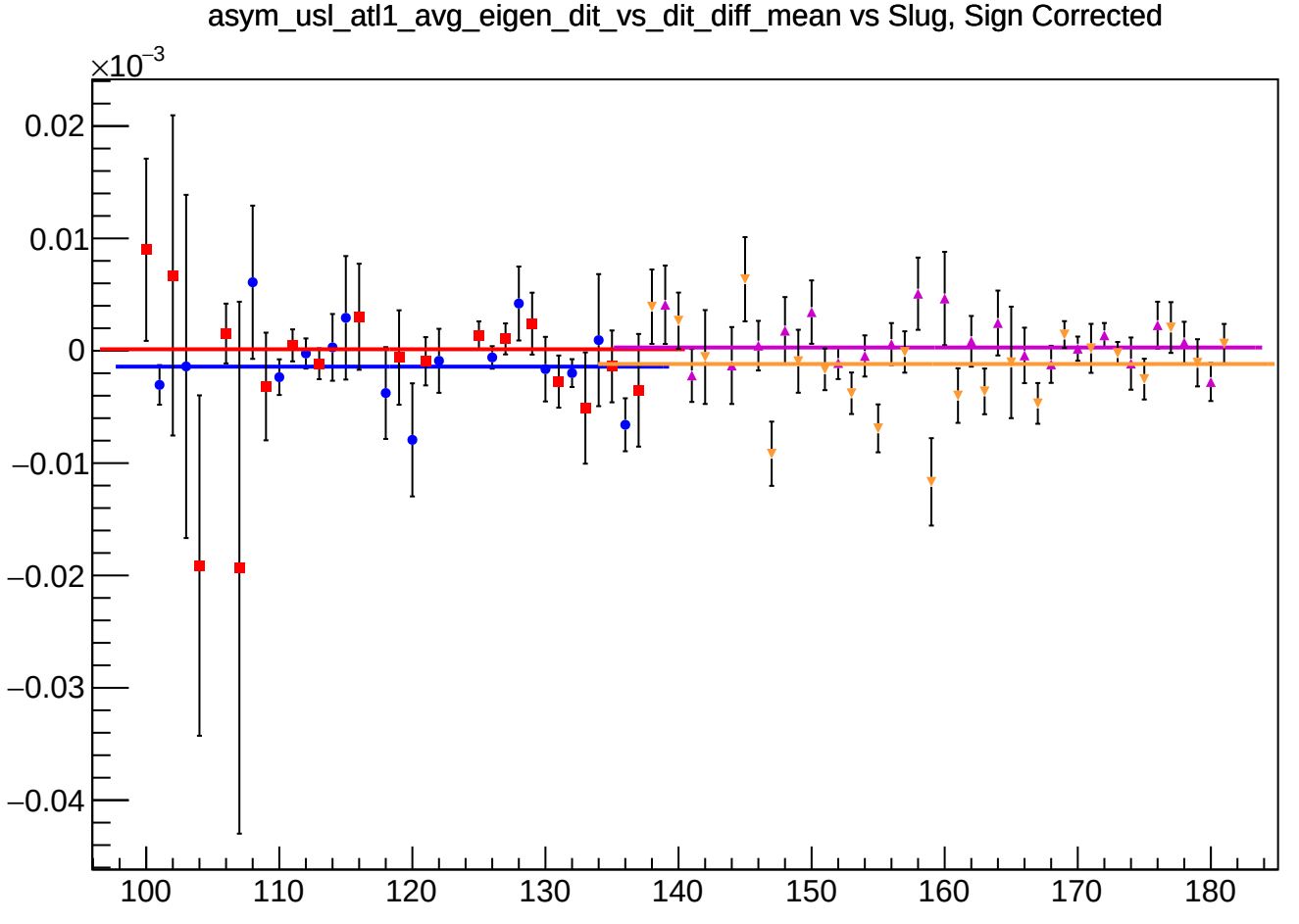
Left: 47.827+/-0.006 $\chi^2$/NDF: 3340853.6/42

Right: 51.419+/-0.012 $\chi^2$/NDF: 5323147.3/33

In: 49.344+/-0.008 $\chi^2$/NDF:3786603.4/36

Out: 47.969+/-0.008 $\chi^2$/NDF:4936466.1/39

All: 48.653+/-0.006 $\chi^2$/NDF: 8738486.5/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:49.9/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.6/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 71.5/42

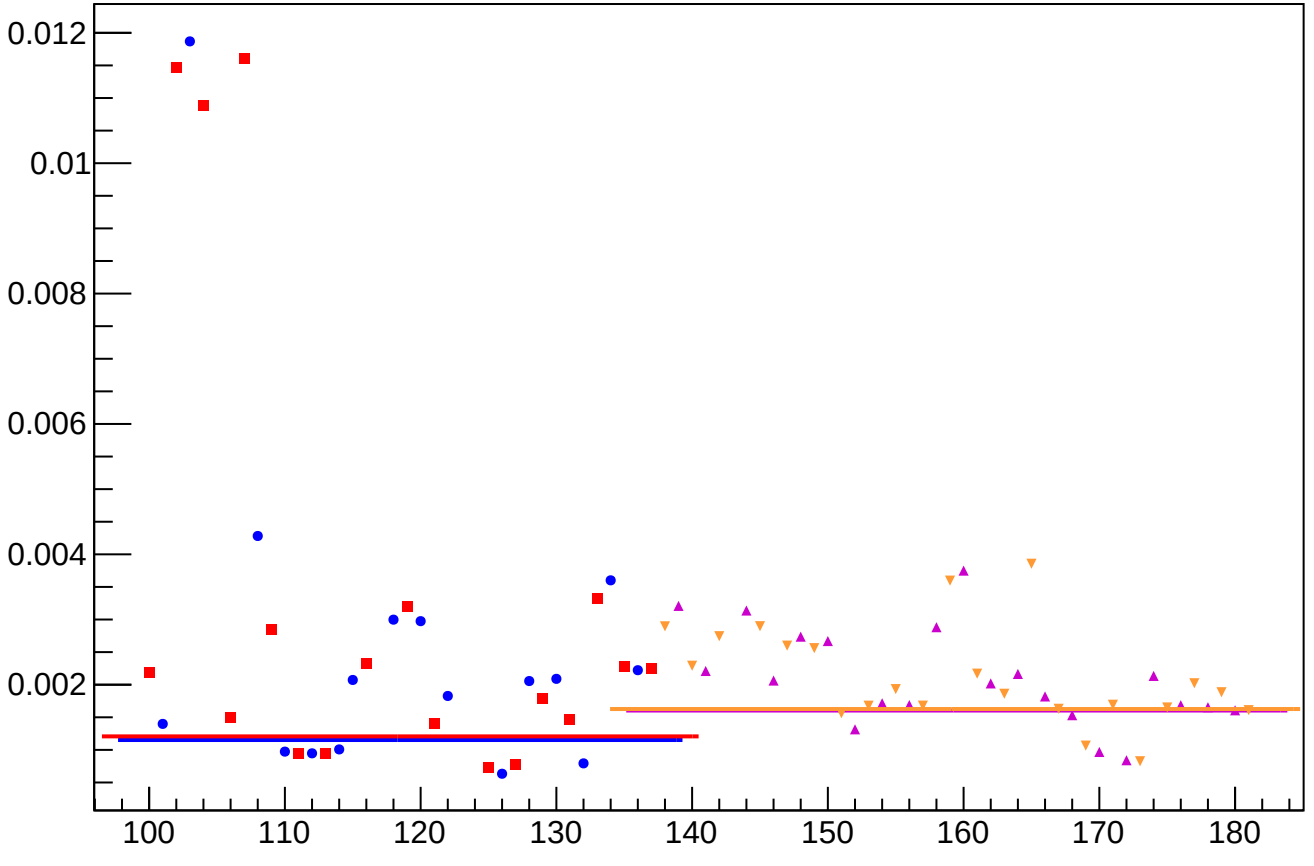
Right: -0.000+/-0.000 $\chi^2$/NDF: 30.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:37.1/36

Out: -0.000+/-0.000 $\chi^2$/NDF:65.0/39

All: -0.000+/-0.000 $\chi^2$/NDF: 102.5/76

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 4187928.7/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:4202187.9/21

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4521920.0/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:4495861.3/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 8701003.1/42

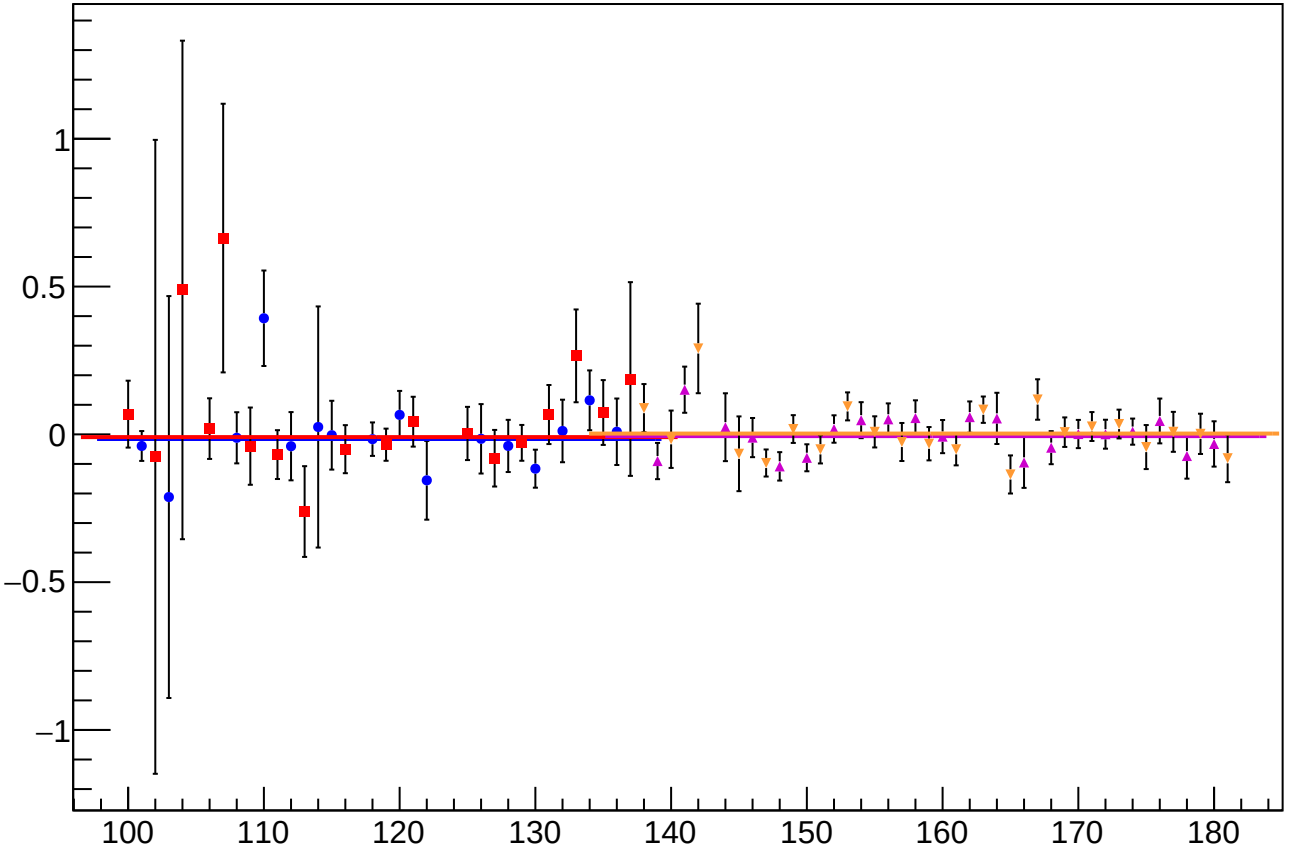
Right: 0.001+/-0.000 $\chi^2$/NDF: 8720631.4/33

In: 0.001+/-0.000 $\chi^2$/NDF:9602730.2/36

Out: 0.001+/-0.000 $\chi^2$/NDF:9441565.9/39

All: 0.001+/-0.000 $\chi^2$/NDF: 19066434.2/76

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: 0.003+/-0.012 $\chi^2$/NDF:29.3/21

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: -0.006+/-0.013 $\chi^2$/NDF:21.4/20

Left: -0.002+/-0.009 $\chi^2$/NDF: 50.9/42

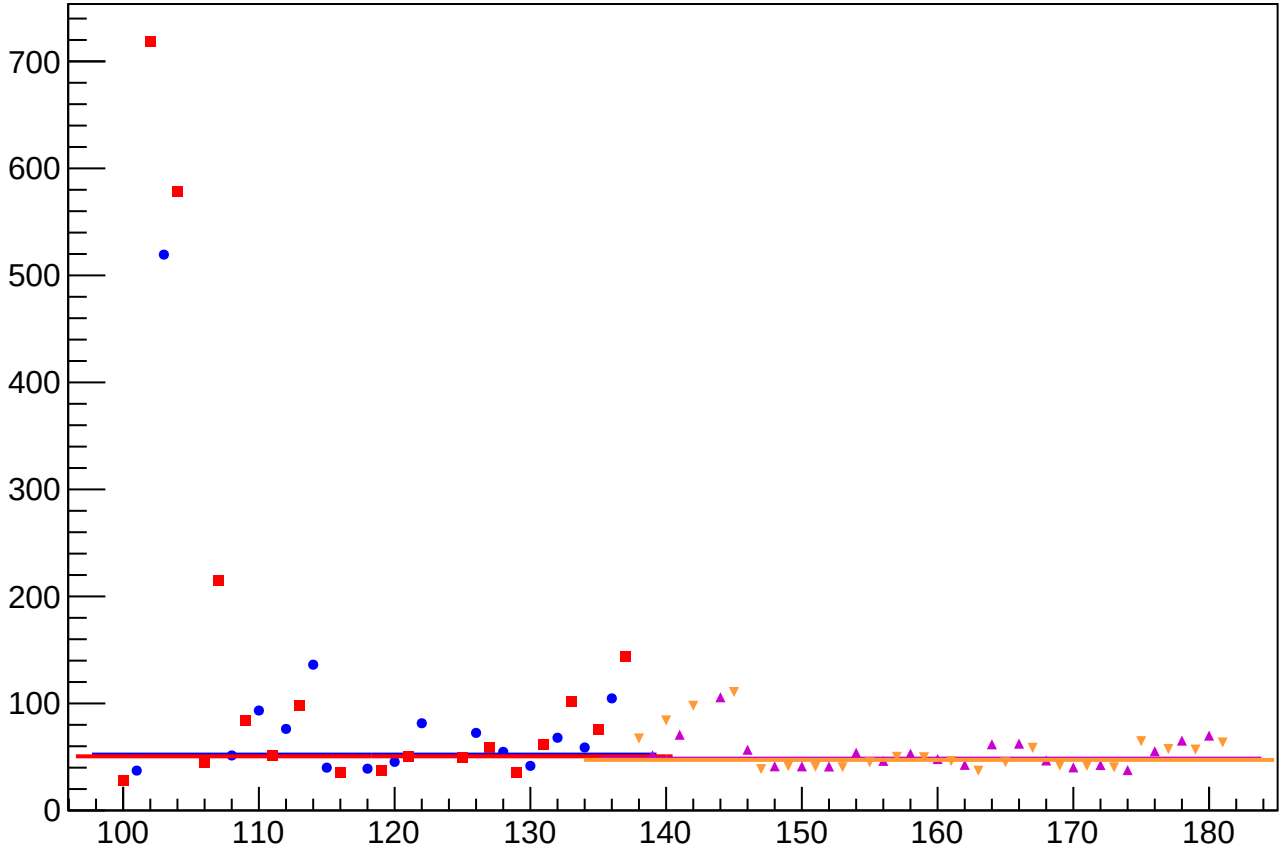
Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.008+/-0.011 $\chi^2$/NDF:34.7/36

Out: 0.000+/-0.011 $\chi^2$/NDF:42.0/39

All: -0.004+/-0.008 $\chi^2$/NDF: 77.0/76

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266922.0/15

Left Out: 47.236+/-0.009 $\chi^2$/NDF:1853662.1/21

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051364.2/17

Left In: 48.442+/-0.009 $\chi^2$/NDF:1478059.9/20

Left: 47.827+/-0.006 $\chi^2$/NDF: 3340842.4/42

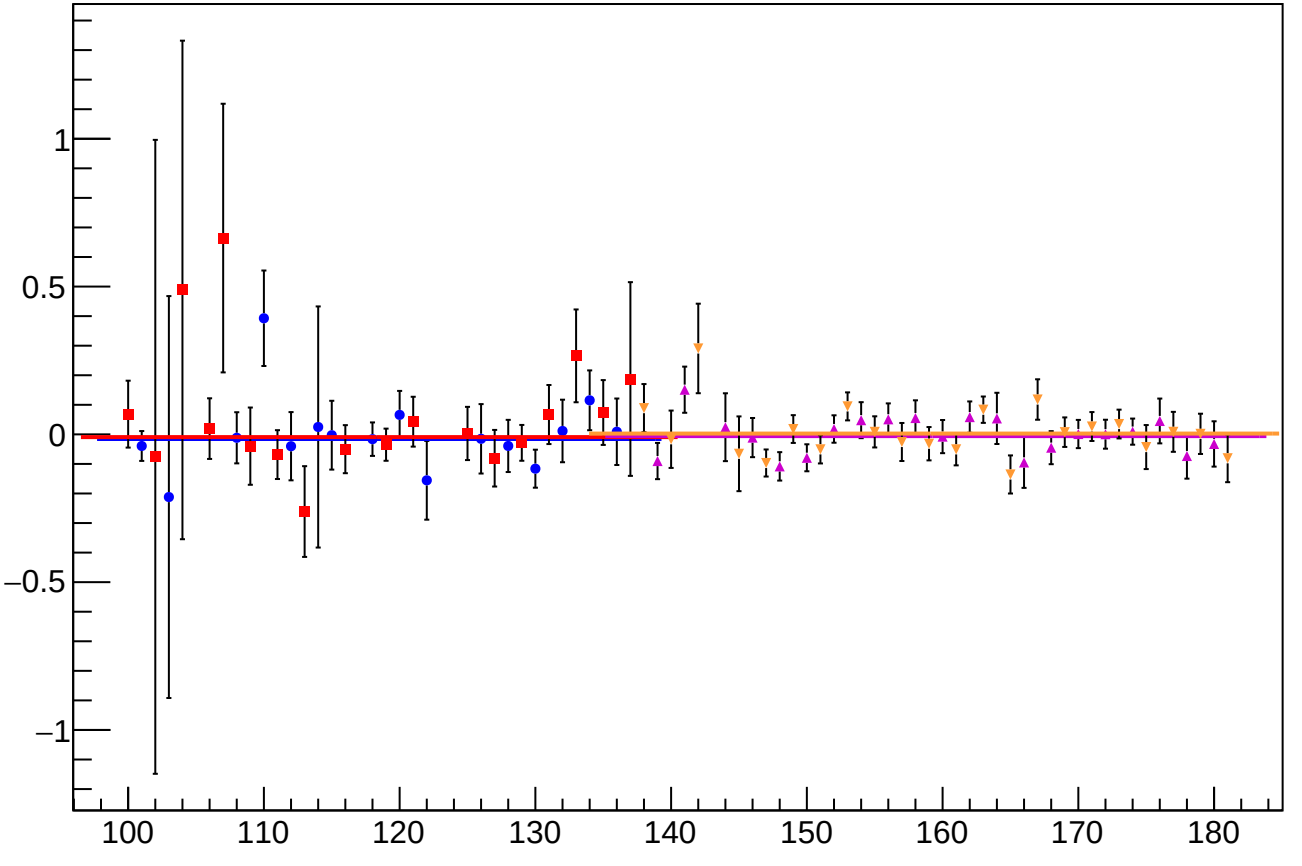
Right: 51.419+/-0.012 $\chi^2$/NDF: 5323126.6/33

In: 49.344+/-0.008 $\chi^2$/NDF:3786600.1/36

Out: 47.969+/-0.008 $\chi^2$/NDF:4936425.3/39

All: 48.653+/-0.006 $\chi^2$/NDF: 8738440.8/76

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: 0.003+/-0.012 $\chi^2$/NDF:29.3/21

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: -0.006+/-0.013 $\chi^2$/NDF:21.4/20

Left: -0.002+/-0.009 $\chi^2$/NDF: 50.9/42

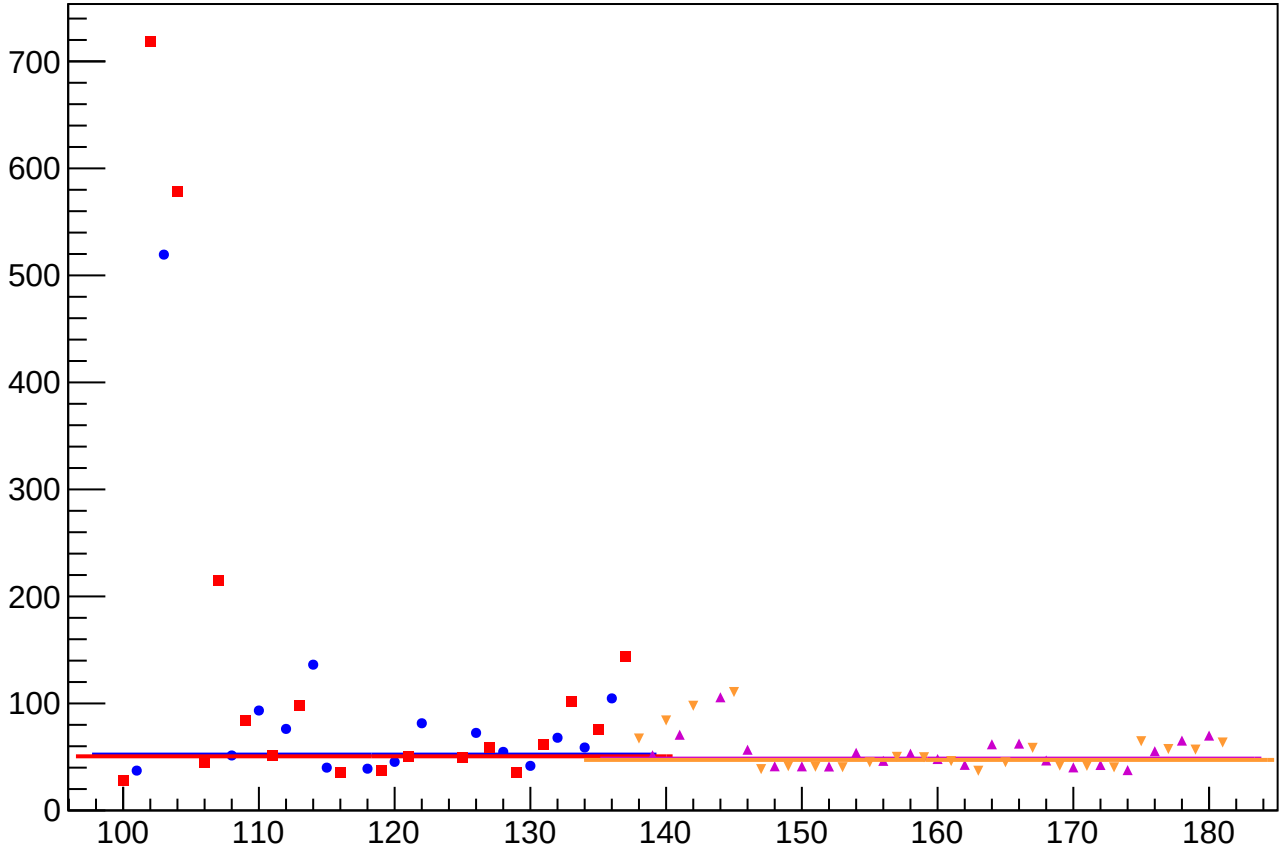
Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.008+/-0.011 $\chi^2$/NDF:34.7/36

Out: 0.000+/-0.011 $\chi^2$/NDF:42.0/39

All: -0.004+/-0.008 $\chi^2$/NDF: 77.0/76

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266922.0/15

Left Out: 47.236+/-0.009 $\chi^2$/NDF:1853662.1/21

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051364.2/17

Left In: 48.442+/-0.009 $\chi^2$/NDF:1478059.9/20

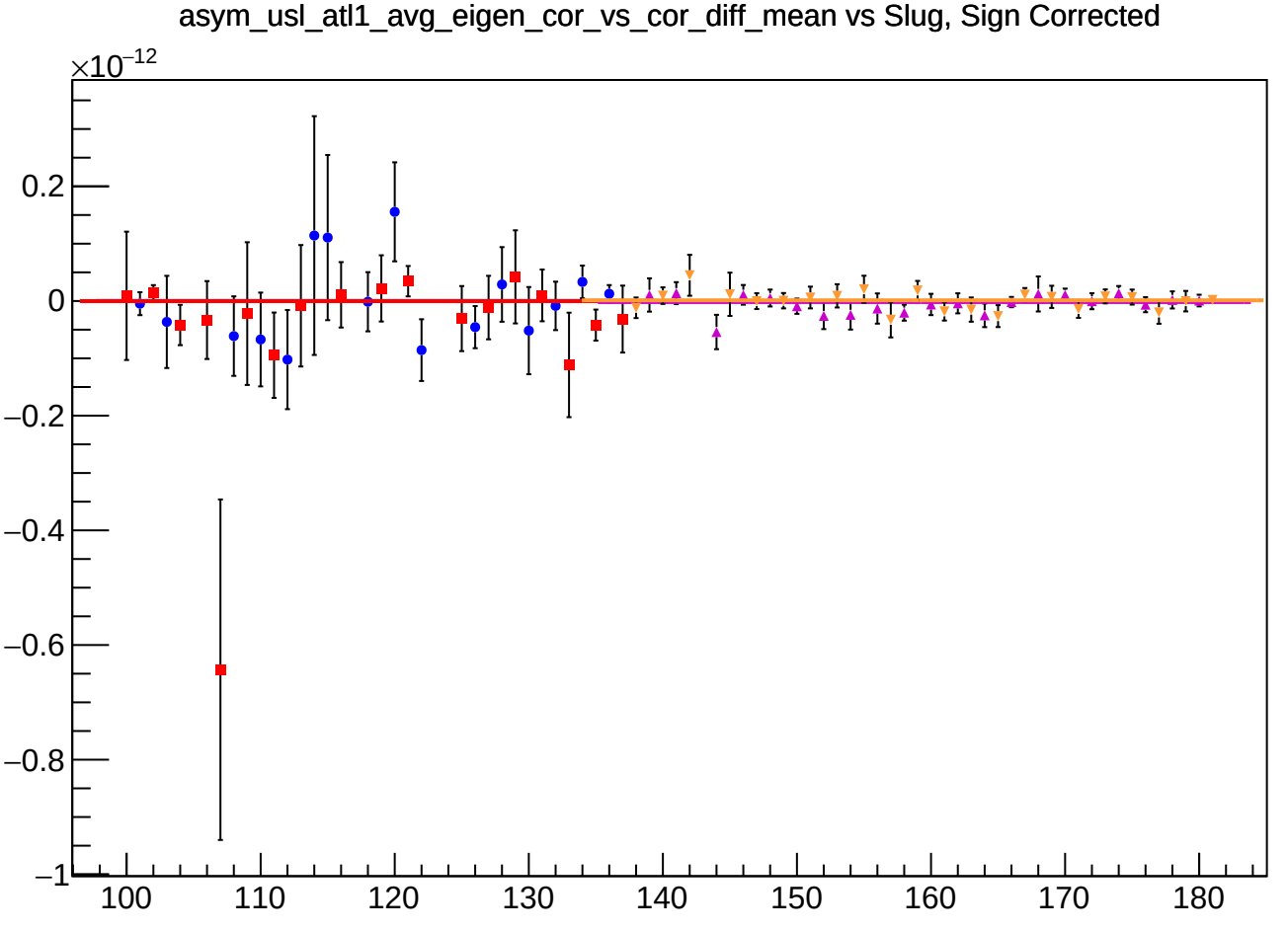
Left: 47.827+/-0.006 $\chi^2$/NDF: 3340842.4/42

Right: 51.419+/-0.012 $\chi^2$/NDF: 5323126.6/33

In: 49.344+/-0.008 $\chi^2$/NDF:3786600.1/36

Out: 47.969+/-0.008 $\chi^2$/NDF:4936425.3/39

All: 48.653+/-0.006 $\chi^2$/NDF: 8738440.8/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.1/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.3/20

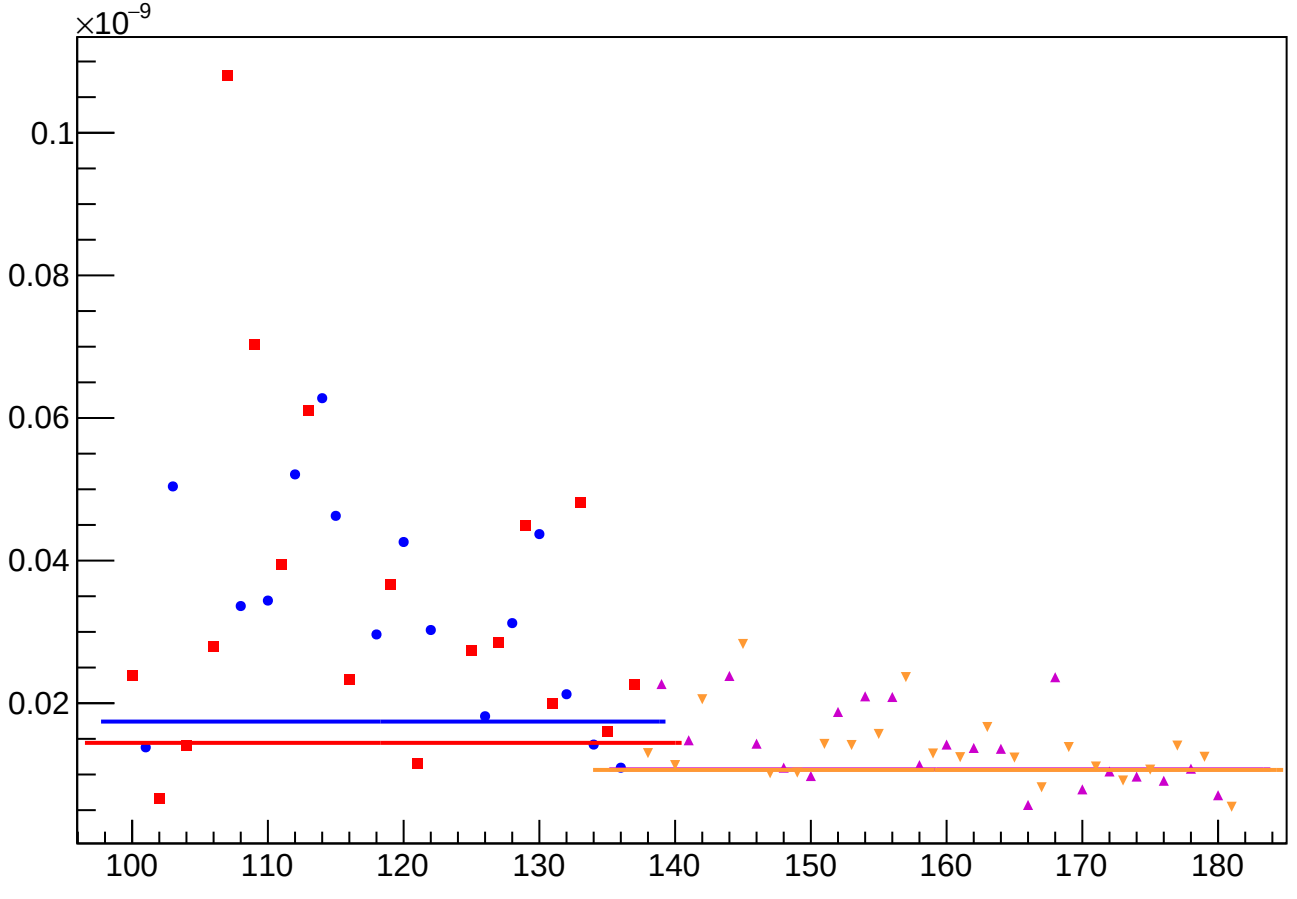
Left: -0.000+/-0.000 $\chi^2$/NDF: 26.8/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:27.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:29.1/39

All: -0.000+/-0.000 $\chi^2$/NDF: 56.9/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2224531.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2727068.2/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3261103.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:3344888.4/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 6072534.7/42

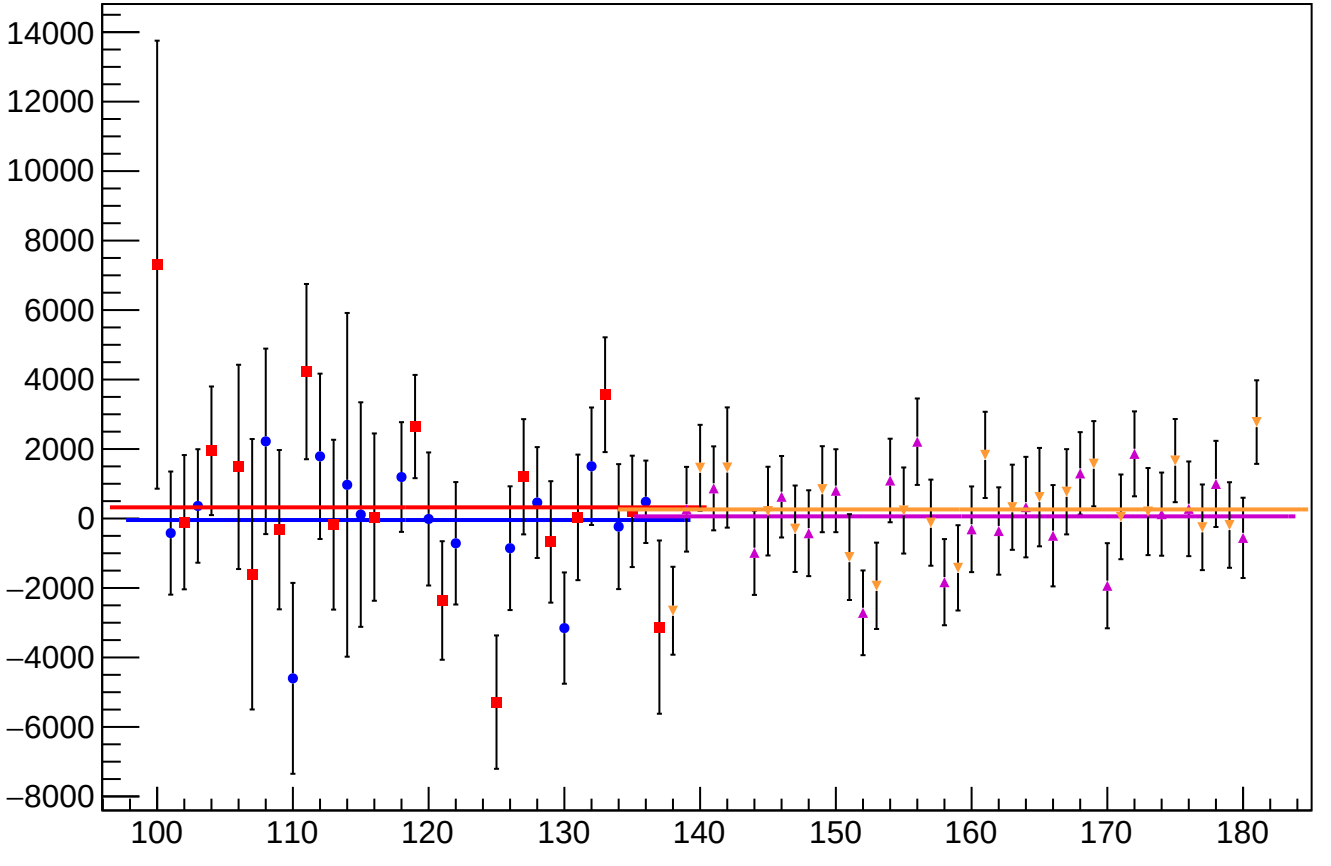
Right: 0.000+/-0.000 $\chi^2$/NDF: 5591516.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:6473827.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6304899.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 12793234.7/76

# reg_asym_usl_atl1_dd_mean vs Slug, Sign Corrected




Right In: -43.681+/-459.222 $\chi^2$/NDF: 10.1/15

Left Out: 261.345+/-267.732 $\chi^2$/NDF:22.6/21

Right Out: 321.266+/-474.939 $\chi^2$/NDF: 24.8/17

Left In: 61.856+/-270.186 $\chi^2$/NDF:20.4/20

Left: 162.510+/-190.177 $\chi^2$/NDF: 43.2/42

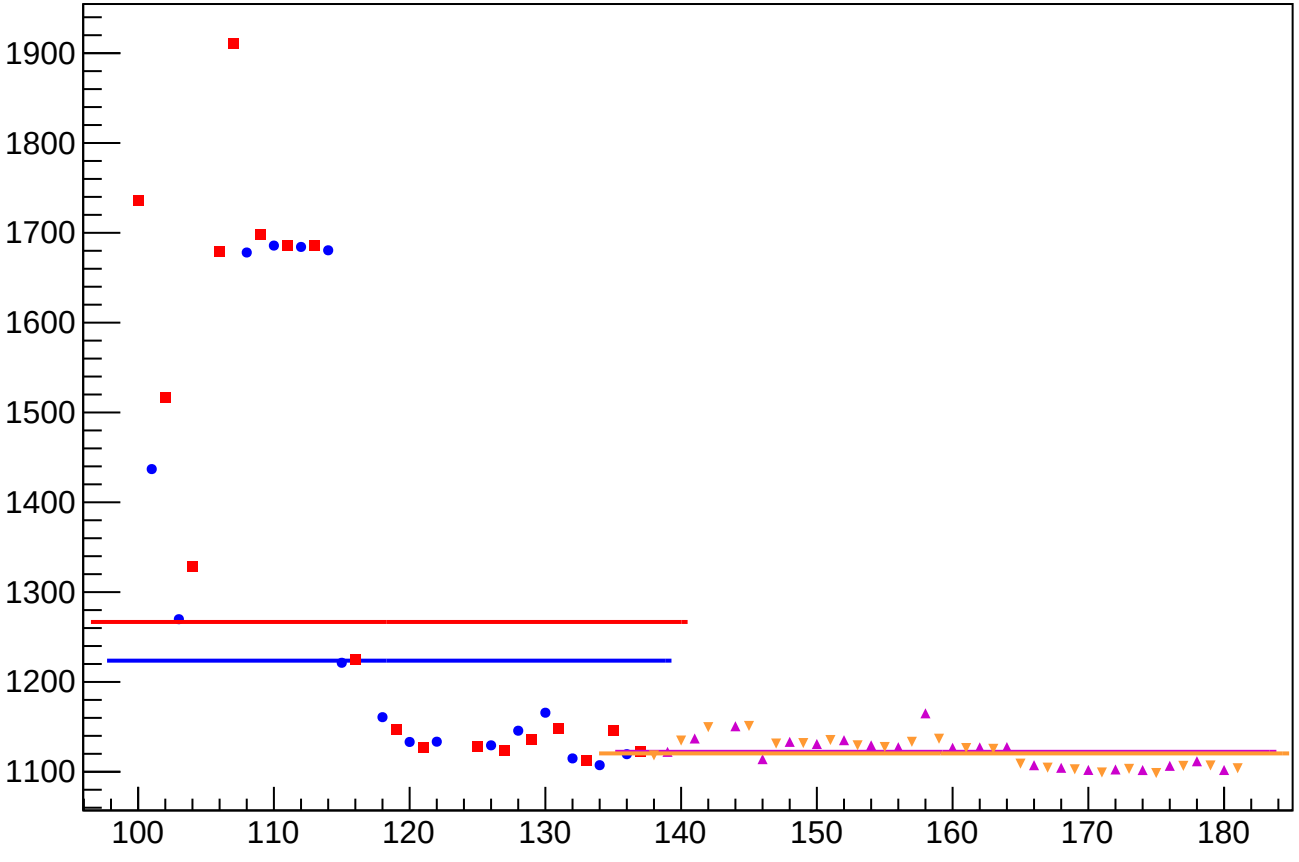
Right: 132.654+/-330.136 $\chi^2$/NDF: 35.2/33

In: 34.717+/-232.870 $\chi^2$/NDF:30.5/36

Out: 275.795+/-233.227 $\chi^2$/NDF:47.4/39

All: 155.071+/-164.790 $\chi^2$/NDF: 78.4/76

# reg_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1120.438+/-0.189 $\chi^2$/NDF:6831.6/21

Right Out: 1266.780+/-0.336 $\chi^2$/NDF: 432845.4/17

Left In: 1122.219+/-0.191 $\chi^2$/NDF:7880.4/20

Left: 1121.320+/-0.134 $\chi^2$/NDF: 14755.9/42

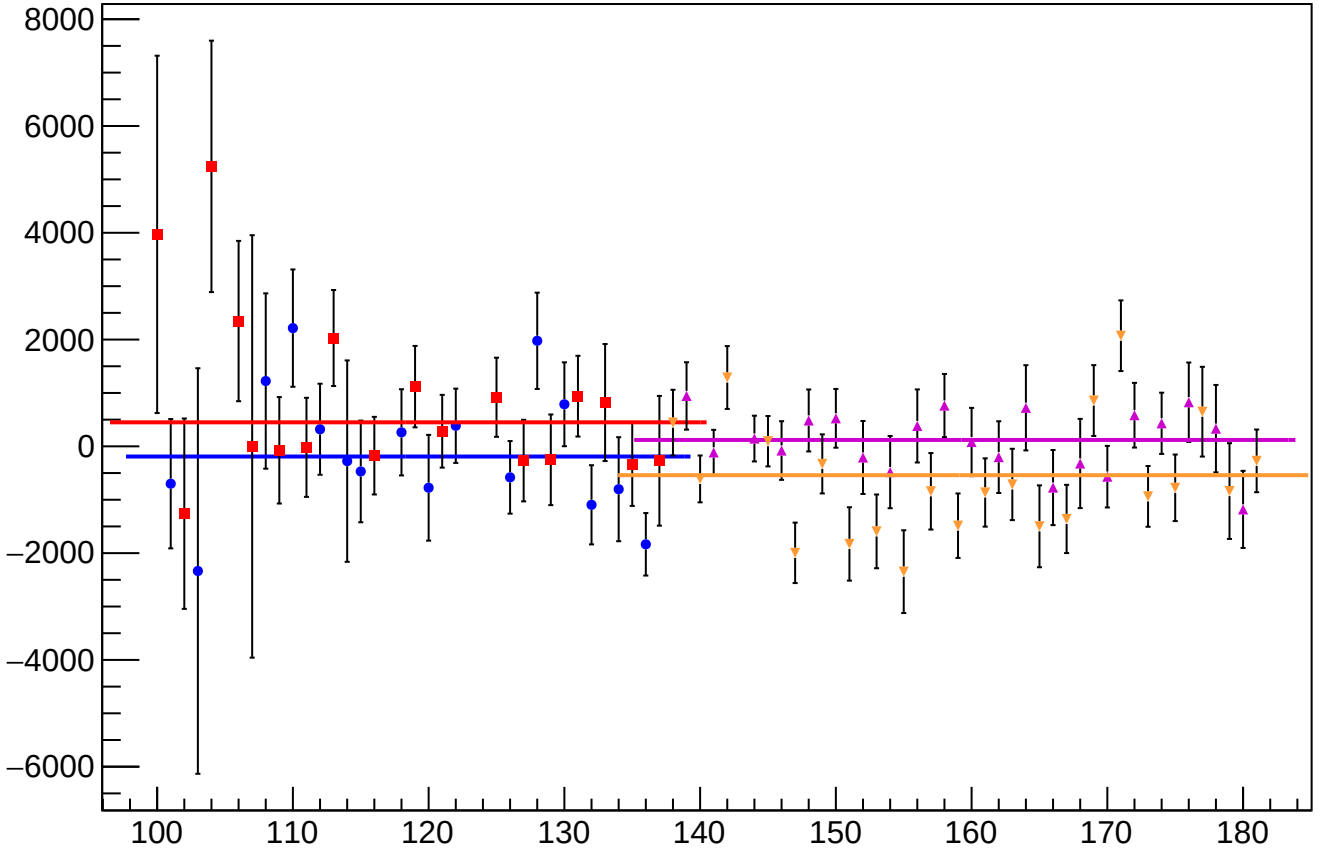
Right: 1244.518+/-0.233 $\chi^2$/NDF: 736313.8/33

In: 1148.316+/-0.165 $\chi^2$/NDF:375407.5/36

Out: 1155.728+/-0.165 $\chi^2$/NDF:583771.4/39

All: 1152.016+/-0.117 $\chi^2$/NDF: 960190.4/76

asym_usl_atl1_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -190.634+/-222.869 $\chi^2$/NDF: 25.2/15

Left Out: -540.265+/-132.692 $\chi^2$/NDF:61.2/21

Right Out: 449.847+/-223.203 $\chi^2$/NDF: 16.8/17

Left In: 119.827+/-133.490 $\chi^2$/NDF:14.6/20

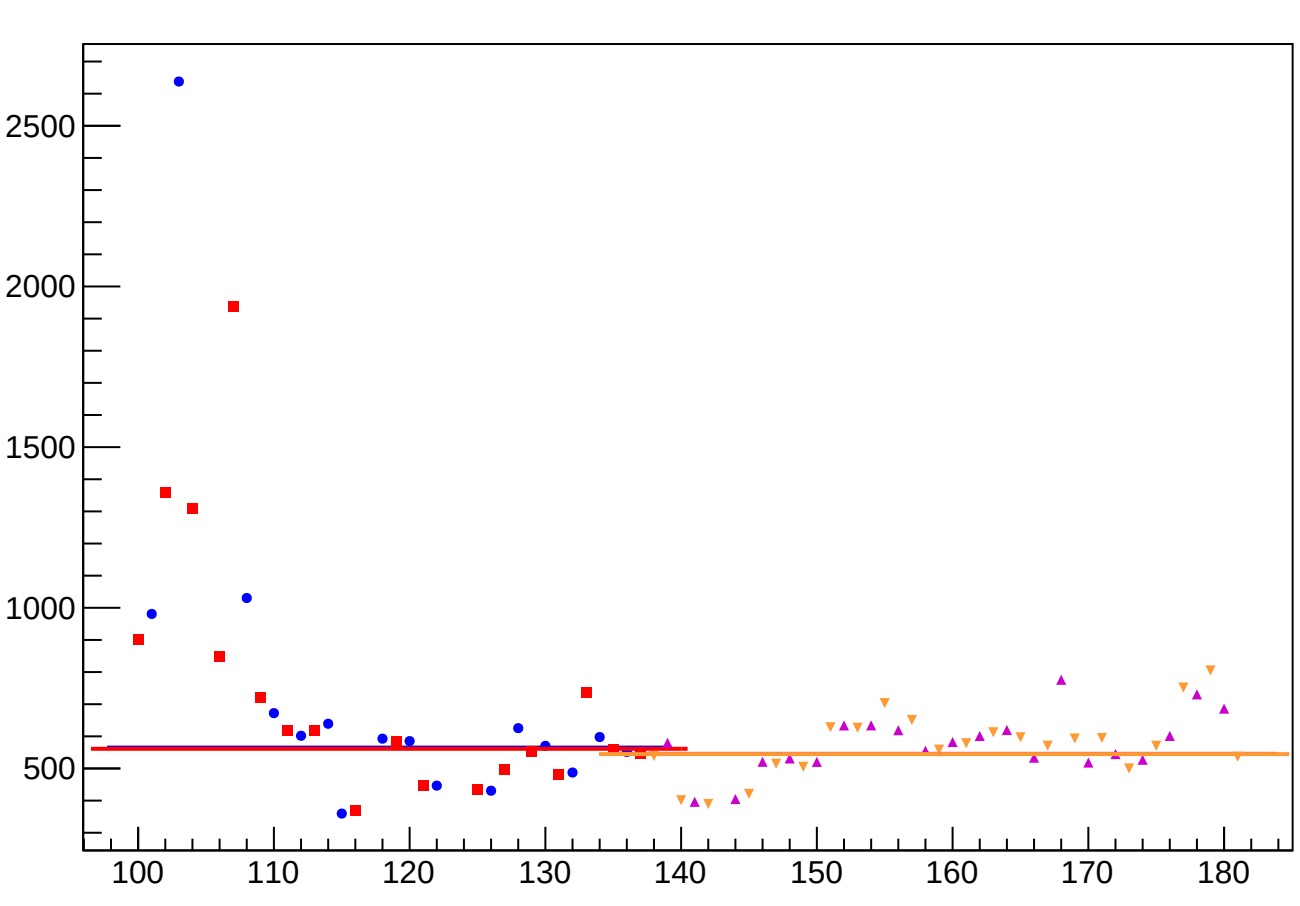
Left: -212.197+/-94.108 $\chi^2$/NDF: 88.1/42

Right: 129.127+/-157.710 $\chi^2$/NDF: 46.2/33

In: 37.856+/-114.519 $\chi^2$/NDF:41.3/36

Out: -281.716+/-114.059 $\chi^2$/NDF:92.6/39

All: -122.574+/-80.814 $\chi^2$/NDF: 137.8/76




Right In: 564.959+/-0.158 $\chi^2$/NDF: 1284478.9/15

Left Out: 544.750+/-0.094 $\chi^2$/NDF:1060317.6/21

Right Out: 561.243+/-0.158 $\chi^2$/NDF: 1352239.3/17

Left In: 545.438+/-0.094 $\chi^2$/NDF:957406.7/20

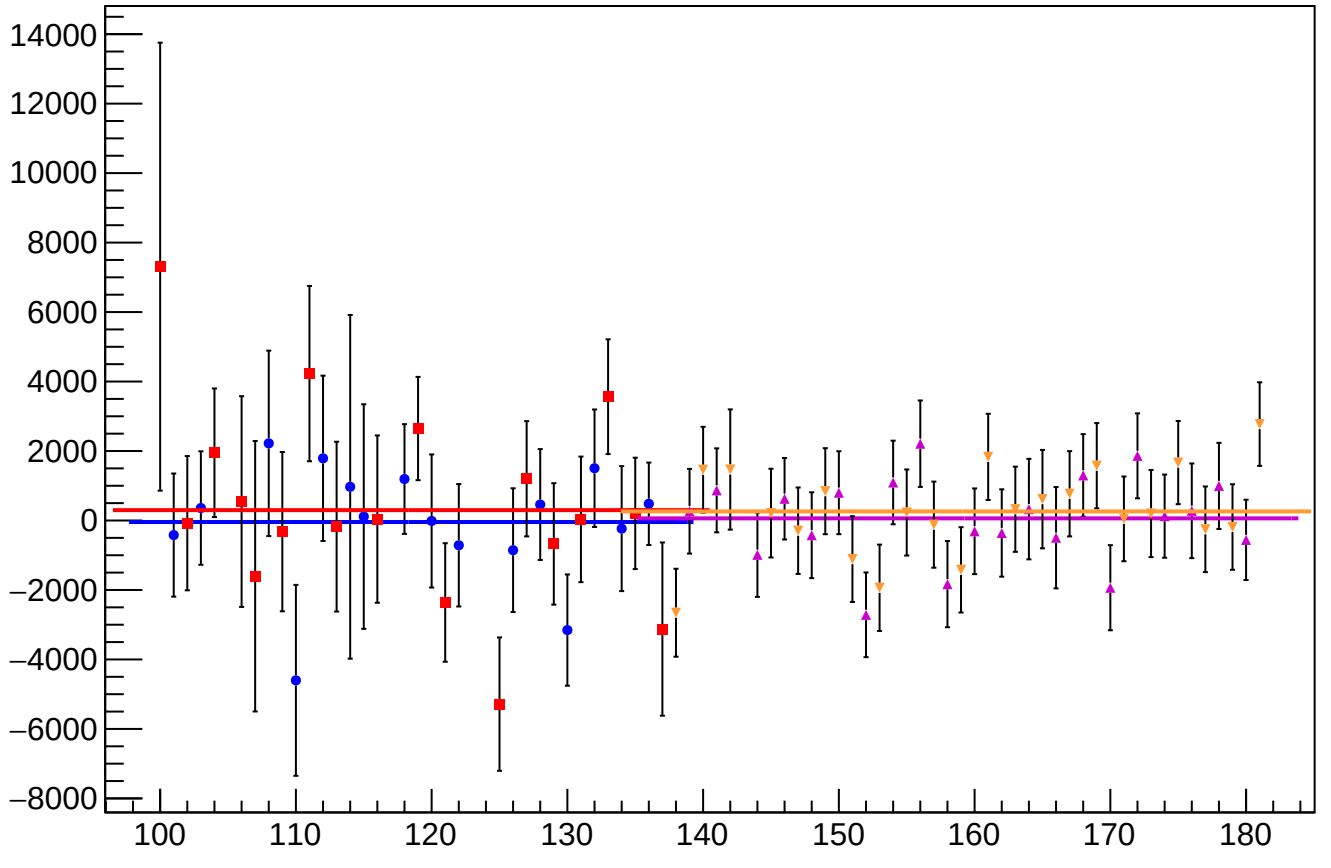
Left: 545.092+/-0.067 $\chi^2$/NDF: 2017751.1/42

Right: 563.104+/-0.112 $\chi^2$/NDF: 2636995.6/33

In: 550.592+/-0.081 $\chi^2$/NDF:2253177.9/36

Out: 549.057+/-0.081 $\chi^2$/NDF:2420626.1/39

All: 549.821+/-0.057 $\chi^2$/NDF: 4673984.5/76




Right In: -43.923+/-459.222 $\chi^2$/NDF: 10.1/15

Left Out: 261.396+/-267.732 $\chi^2$/NDF:22.6/21

Right Out: 298.207+/-475.315 $\chi^2$/NDF: 24.6/17

Left In: 61.818+/-270.186 $\chi^2$/NDF:20.4/20

Left: 162.518+/-190.177 $\chi^2$/NDF: 43.2/42

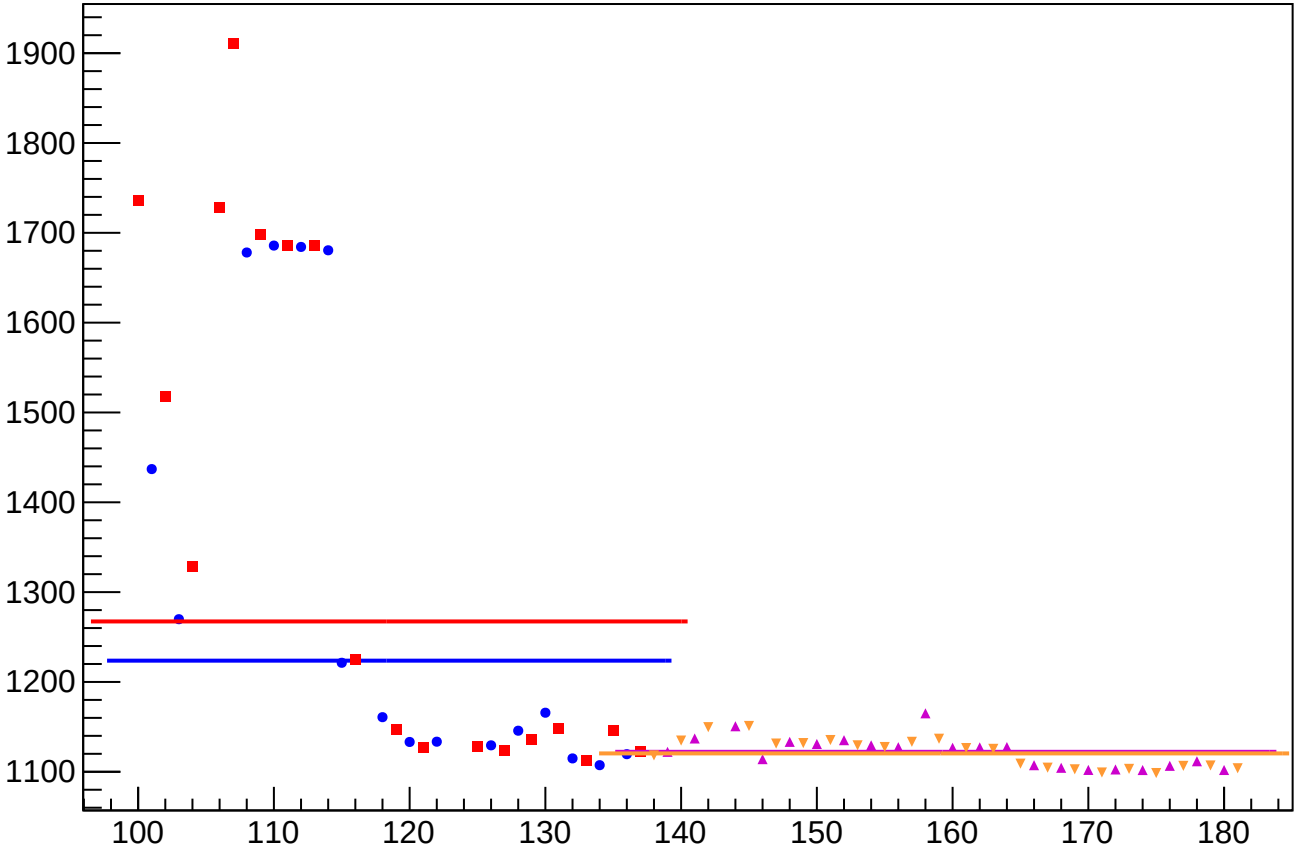
Right: 121.252+/-330.262 $\chi^2$/NDF: 35.0/33

In: 34.627+/-232.870 $\chi^2$/NDF:30.5/36

Out: 270.262+/-233.272 $\chi^2$/NDF:47.2/39

All: 152.242+/-164.806 $\chi^2$/NDF: 78.2/76

# cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1120.438+/-0.189 $\chi^2$/NDF:6831.6/21

Right Out: 1267.363+/-0.336 $\chi^2$/NDF: 439982.4/17

Left In: 1122.219+/-0.191 $\chi^2$/NDF:7880.4/20

Left: 1121.320+/-0.134 $\chi^2$/NDF: 14755.9/42

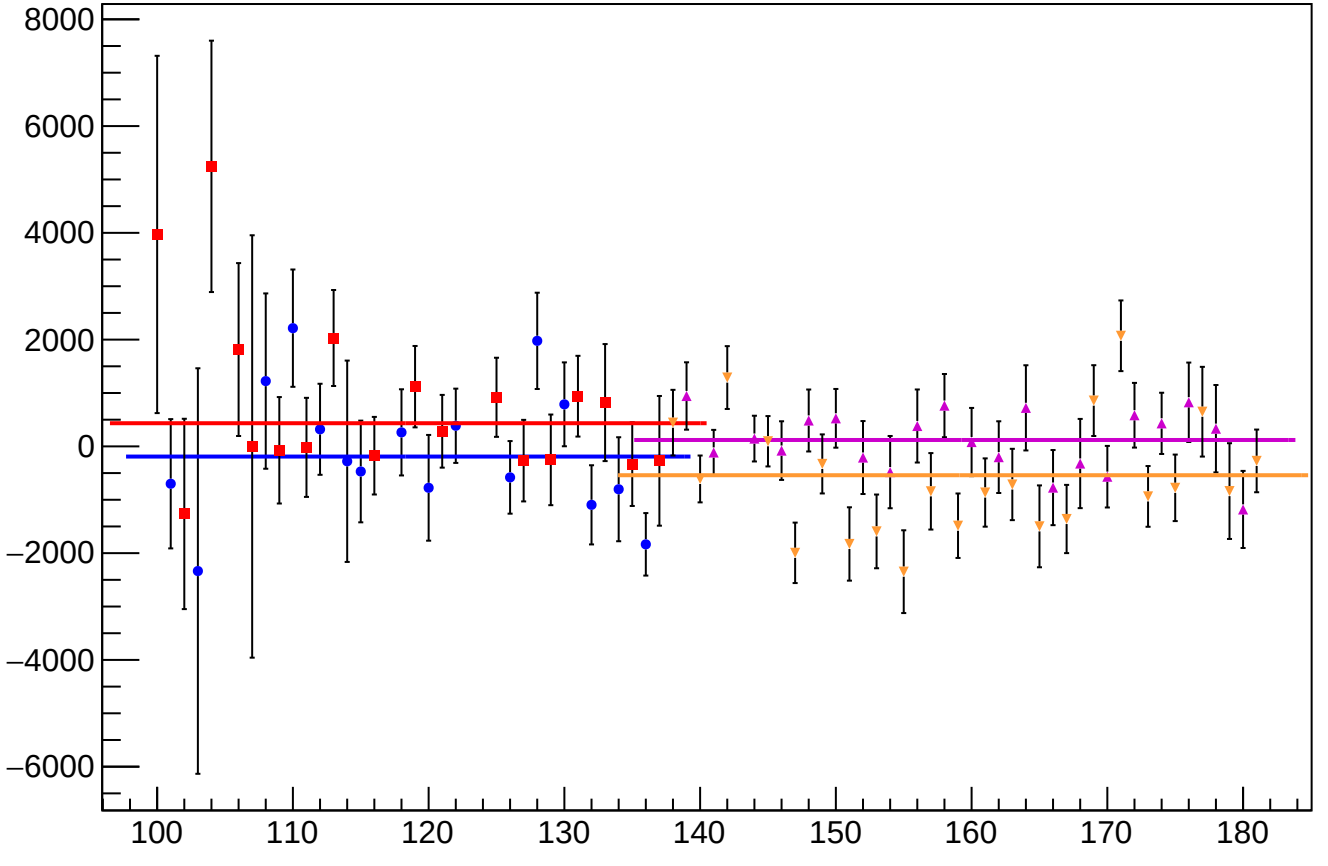
Right: 1244.783+/-0.234 $\chi^2$/NDF: 743675.6/33

In: 1148.316+/-0.165 $\chi^2$/NDF:375407.5/36

Out: 1155.826+/-0.165 $\chi^2$/NDF:591885.5/39

All: 1152.065+/-0.117 $\chi^2$/NDF: 968331.4/76

asym_usl_atl1_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: -190.645+/-222.867 $\chi^2$/NDF: 25.3/15

Left Out: -540.281+/-132.692 $\chi^2$/NDF:61.2/21

Right Out: 433.877+/-223.547 $\chi^2$/NDF: 15.9/17

Left In: 119.804+/-133.489 $\chi^2$/NDF:14.6/20

Left: -212.216+/-94.108 $\chi^2$/NDF: 88.1/42

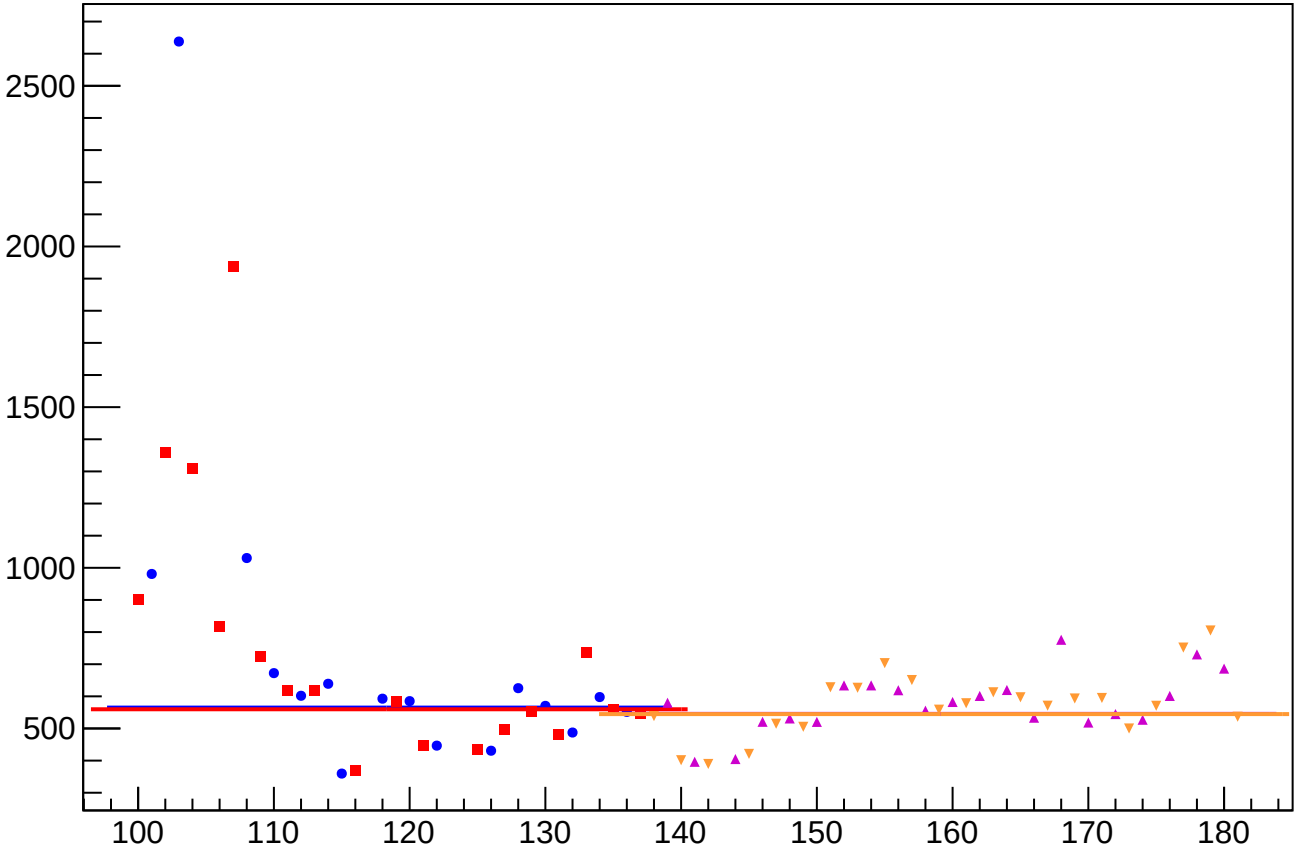
Right: 120.665+/-157.831 $\chi^2$/NDF: 45.1/33

In: 37.835+/-114.519 $\chi^2$/NDF:41.3/36

Out: -286.478+/-114.105 $\chi^2$/NDF:91.2/39

All: -124.909+/-80.830 $\chi^2$/NDF: 136.5/76

asym_usl_atl1_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 564.954+/-0.158 $\chi^2$/NDF: 1284455.7/15

Left Out: 544.749+/-0.094 $\chi^2$/NDF:1060317.8/21

Right Out: 559.758+/-0.158 $\chi^2$/NDF: 1329357.2/17

Left In: 545.437+/-0.094 $\chi^2$/NDF:957351.4/20

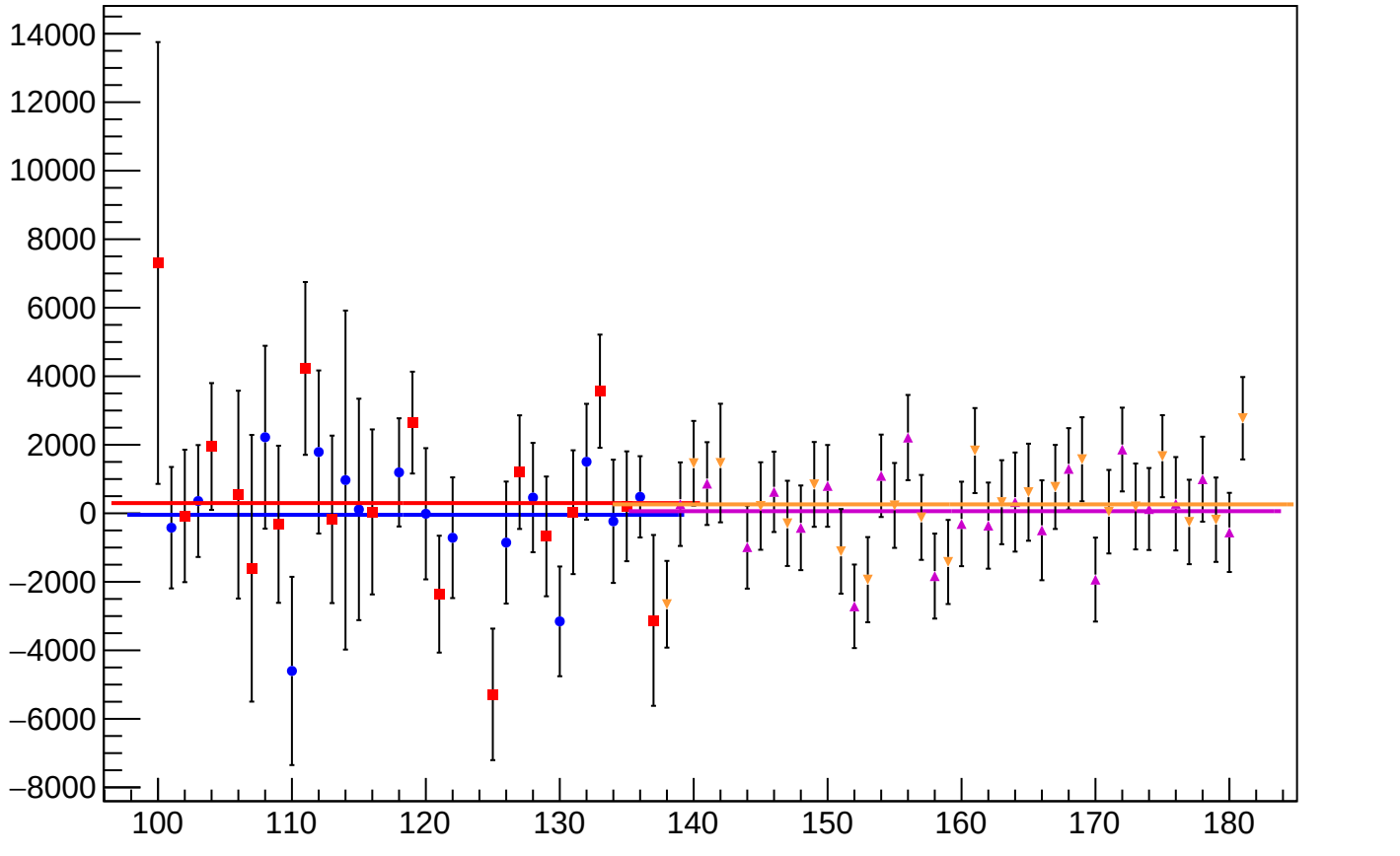
Left: 545.091+/-0.067 $\chi^2$/NDF: 2017695.9/42

Right: 562.364+/-0.112 $\chi^2$/NDF: 2614354.9/33

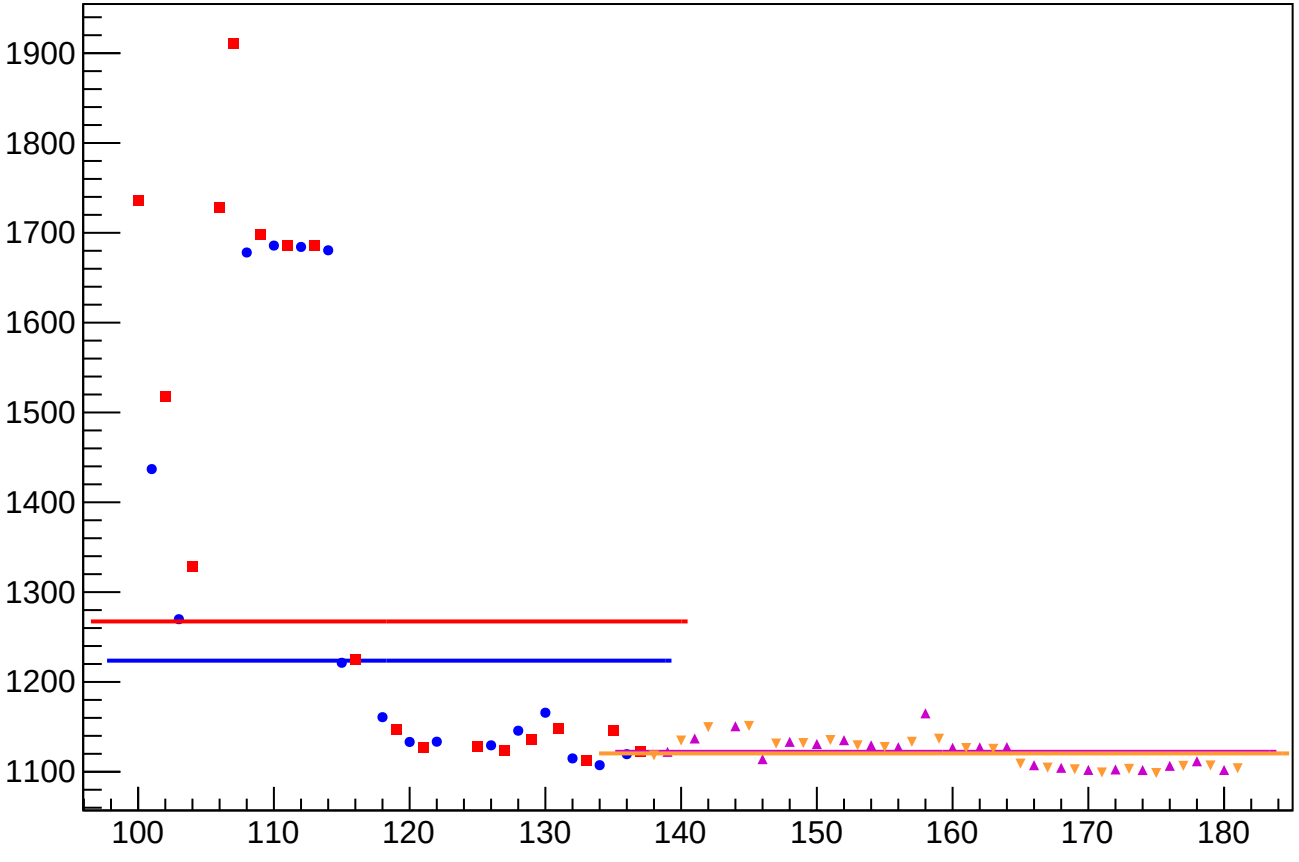
In: 550.590+/-0.081 $\chi^2$/NDF:2253095.6/36

Out: 548.659+/-0.081 $\chi^2$/NDF:2396341.4/39

All: 549.621+/-0.057 $\chi^2$/NDF: 4649722.3/76


eigen_cor_asym_usl_atl1_dd_mean vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
100
110
120
130
140
150
160
170
180
Right In: -43.923+/-459.222 χ²/NDF: 10.1/15
Left Out: 261.396+/-267.732 χ²/NDF:22.6/21
Right Out: 298.207+/-475.315 χ²/NDF: 24.6/17
Left In: 61.818+/-270.186 χ²/NDF:20.4/20
Left: 162.518+/-190.177 χ²/NDF: 43.2/42
Right: 121.252+/-330.262 χ²/NDF: 35.0/33
In: 34.627+/-232.870 χ²/NDF:30.5/36
Out: 270.262+/-233.272 χ²/NDF:47.2/39
All: 152.242+/-164.806 χ²/NDF: 78.2/76

# eigen_cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1120.438+/-0.189 $\chi^2$/NDF:6831.6/21

Right Out: 1267.363+/-0.336 $\chi^2$/NDF: 439982.4/17

Left In: 1122.219+/-0.191 $\chi^2$/NDF:7880.4/20

Left: 1121.320+/-0.134 $\chi^2$/NDF: 14755.9/42

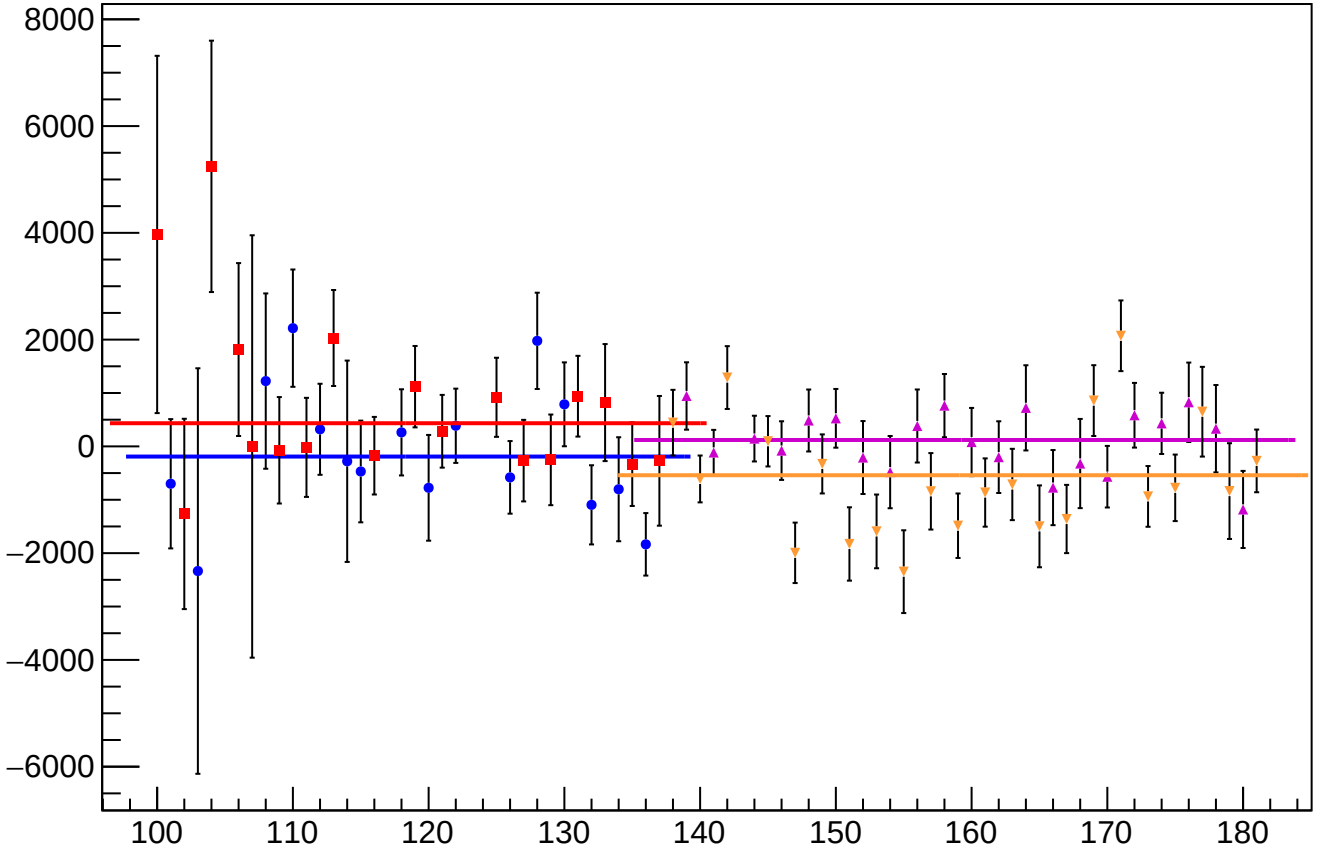
Right: 1244.783+/-0.234 $\chi^2$/NDF: 743675.6/33

In: 1148.316+/-0.165 $\chi^2$/NDF:375407.5/36

Out: 1155.826+/-0.165 $\chi^2$/NDF:591885.5/39

All: 1152.065+/-0.117 $\chi^2$/NDF: 968331.4/76

asym_usl_atl1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -190.645+/-222.867 $\chi^2$/NDF: 25.3/15

Left Out: -540.281+/-132.692 $\chi^2$/NDF:61.2/21

Right Out: 433.877+/-223.547 $\chi^2$/NDF: 15.9/17

Left In: 119.804+/-133.489 $\chi^2$/NDF:14.6/20

Left: -212.216+/-94.108 $\chi^2$/NDF: 88.1/42

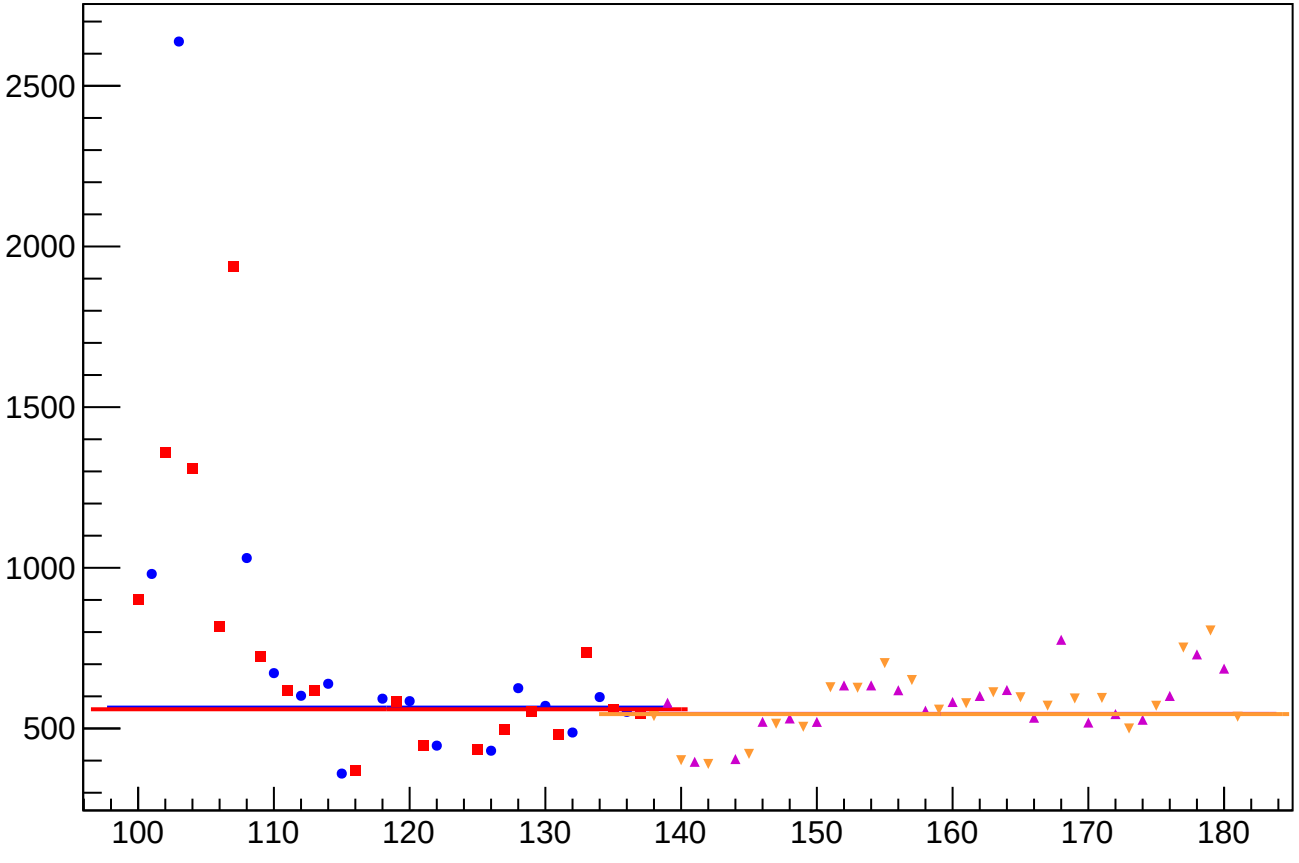
Right: 120.665+/-157.831 $\chi^2$/NDF: 45.1/33

In: 37.835+/-114.519 $\chi^2$/NDF:41.3/36

Out: -286.478+/-114.105 $\chi^2$/NDF:91.2/39

All: -124.909+/-80.830 $\chi^2$/NDF: 136.5/76

asym_usl_atl1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 564.954+/-0.158 $\chi^2$/NDF: 1284455.7/15

Left Out: 544.749+/-0.094 $\chi^2$/NDF:1060317.8/21

Right Out: 559.758+/-0.158 $\chi^2$/NDF: 1329357.2/17

Left In: 545.437+/-0.094 $\chi^2$/NDF:957351.4/20

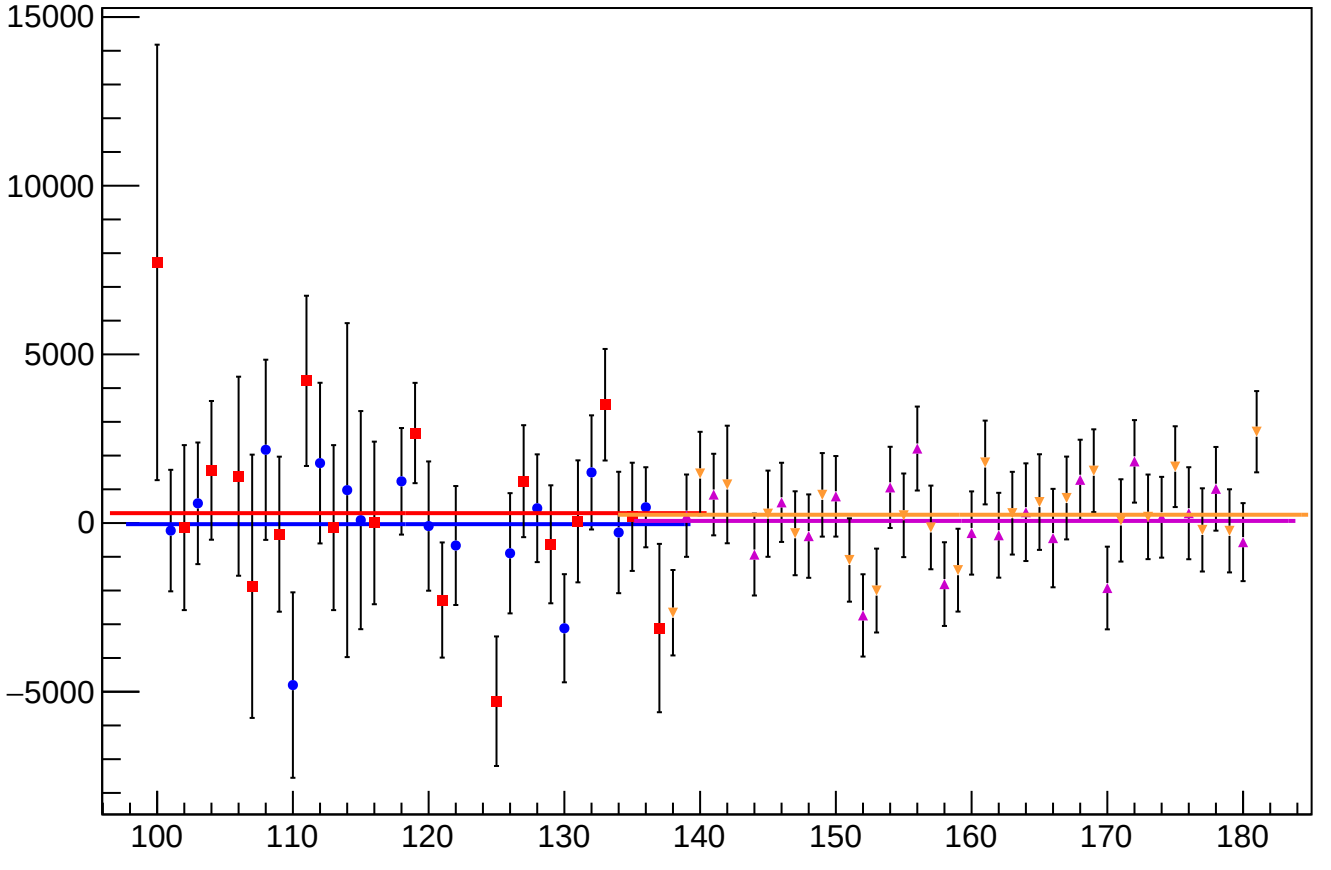
Left: 545.091+/-0.067 $\chi^2$/NDF: 2017695.9/42

Right: 562.364+/-0.112 $\chi^2$/NDF: 2614354.9/33

In: 550.590+/-0.081 $\chi^2$/NDF:2253095.6/36

Out: 548.659+/-0.081 $\chi^2$/NDF:2396341.4/39

All: 549.621+/-0.057 $\chi^2$/NDF: 4649722.3/76




Right In: -33.062+/-463.216 $\chi^2$/NDF: 10.3/15

Left Out: 246.340+/-267.898 $\chi^2$/NDF:22.1/21

Right Out: 293.384+/-483.838 $\chi^2$/NDF: 24.2/17

Left In: 63.027+/-270.302 $\chi^2$/NDF:20.1/20

Left: 155.502+/-190.277 $\chi^2$/NDF: 42.4/42

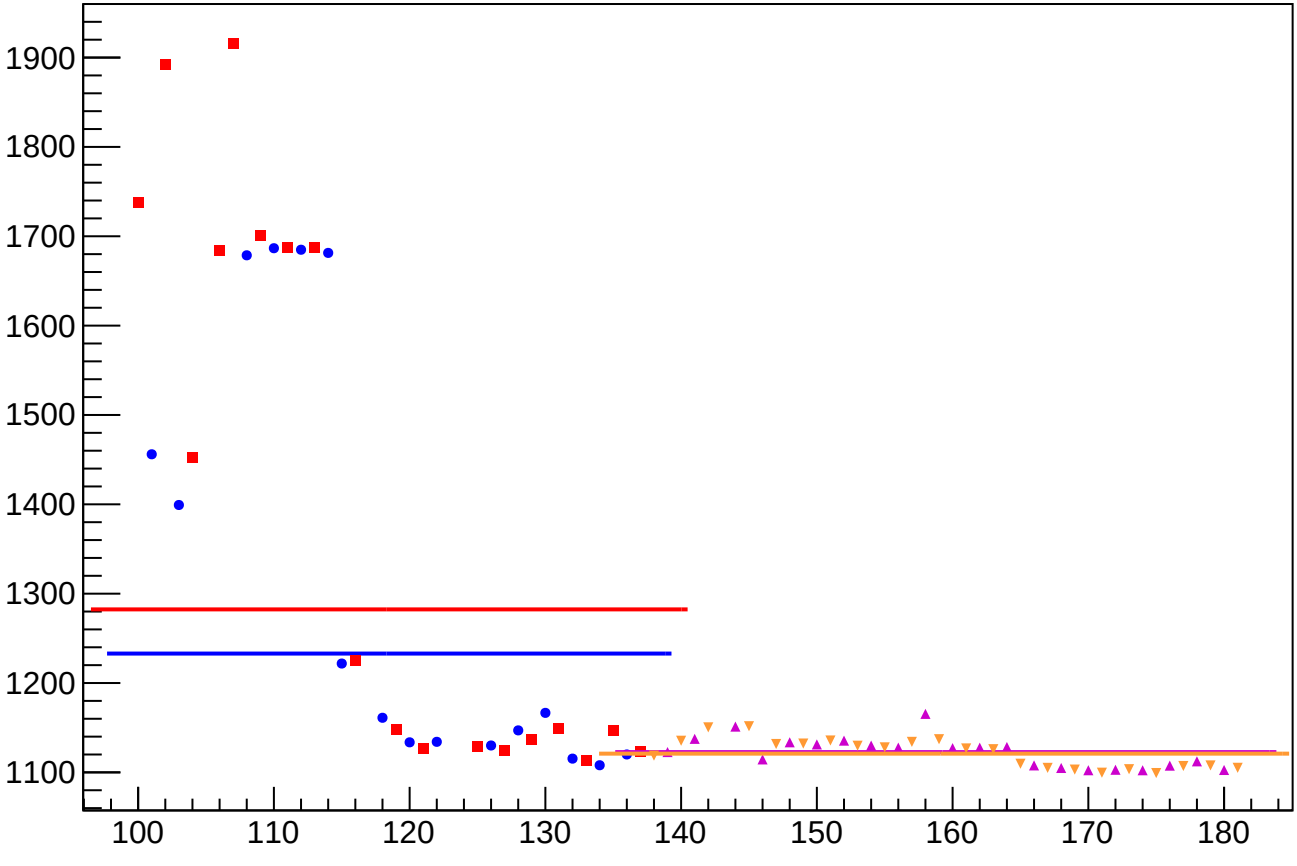
Right: 123.056+/-334.596 $\chi^2$/NDF: 34.7/33

In: 38.619+/-233.461 $\chi^2$/NDF:30.4/36

Out: 257.379+/-234.370 $\chi^2$/NDF:46.3/39

All: 147.574+/-165.402 $\chi^2$/NDF: 77.1/76

# dit_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1232.965+/-0.328 $\chi^2$/NDF: 315470.6/15

Left Out: 1120.954+/-0.189 $\chi^2$/NDF:6784.1/21

Right Out: 1282.407+/-0.342 $\chi^2$/NDF: 543403.8/17

Left In: 1122.699+/-0.191 $\chi^2$/NDF:7847.3/20

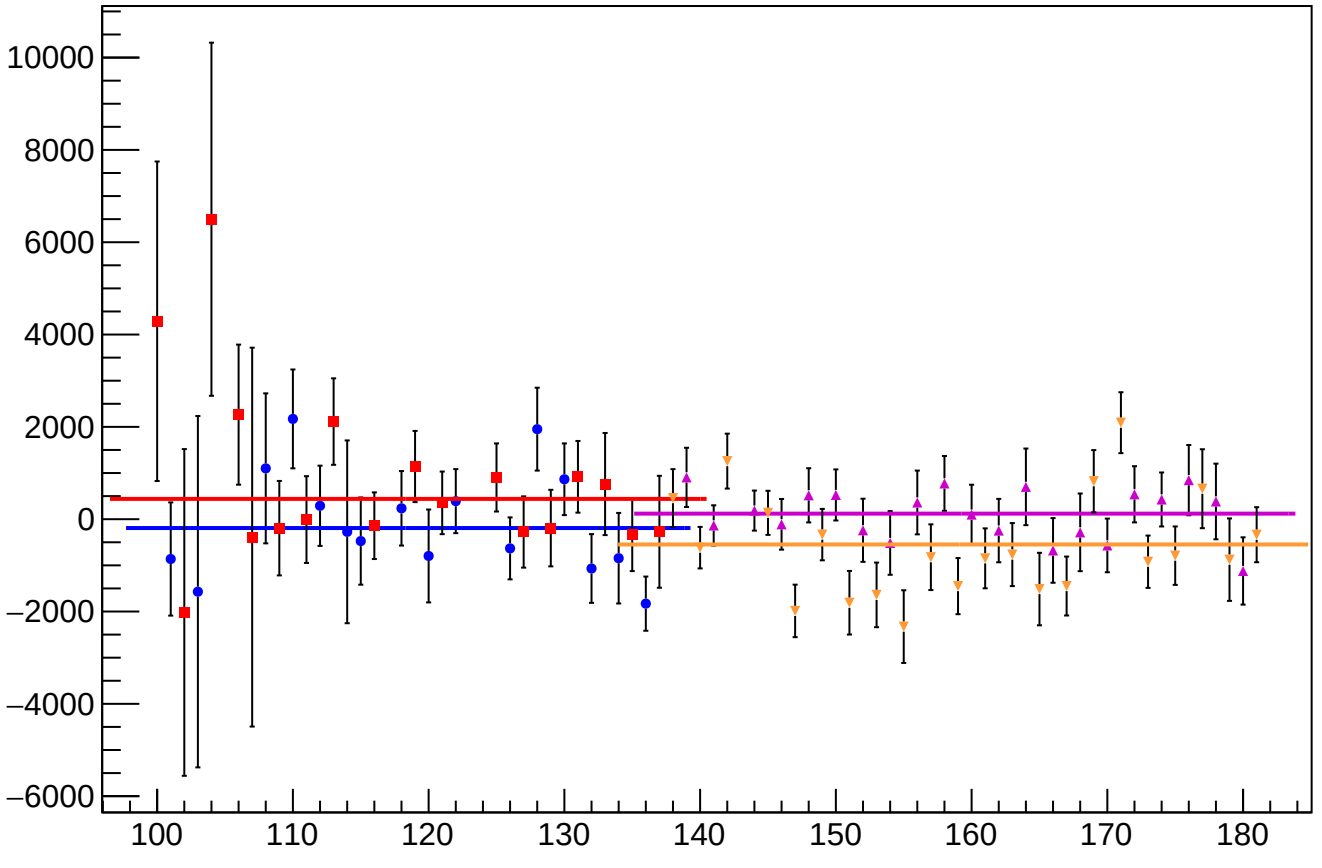
Left: 1121.819+/-0.135 $\chi^2$/NDF: 14673.5/42

Right: 1256.610+/-0.237 $\chi^2$/NDF: 869771.1/33

In: 1150.708+/-0.165 $\chi^2$/NDF:407860.3/36

Out: 1158.838+/-0.166 $\chi^2$/NDF:720633.8/39

All: 1154.757+/-0.117 $\chi^2$/NDF: 1129701.9/76




Right In: -191.528+/-222.764 $\chi^2$/NDF: 25.3/15

Left Out: -547.631+/-134.134 $\chi^2$/NDF:60.4/21

Right Out: 439.610+/-226.600 $\chi^2$/NDF: 14.6/17

Left In: 120.426+/-135.138 $\chi^2$/NDF:13.9/20

Left: -216.094+/-95.200 $\chi^2$/NDF: 86.6/42

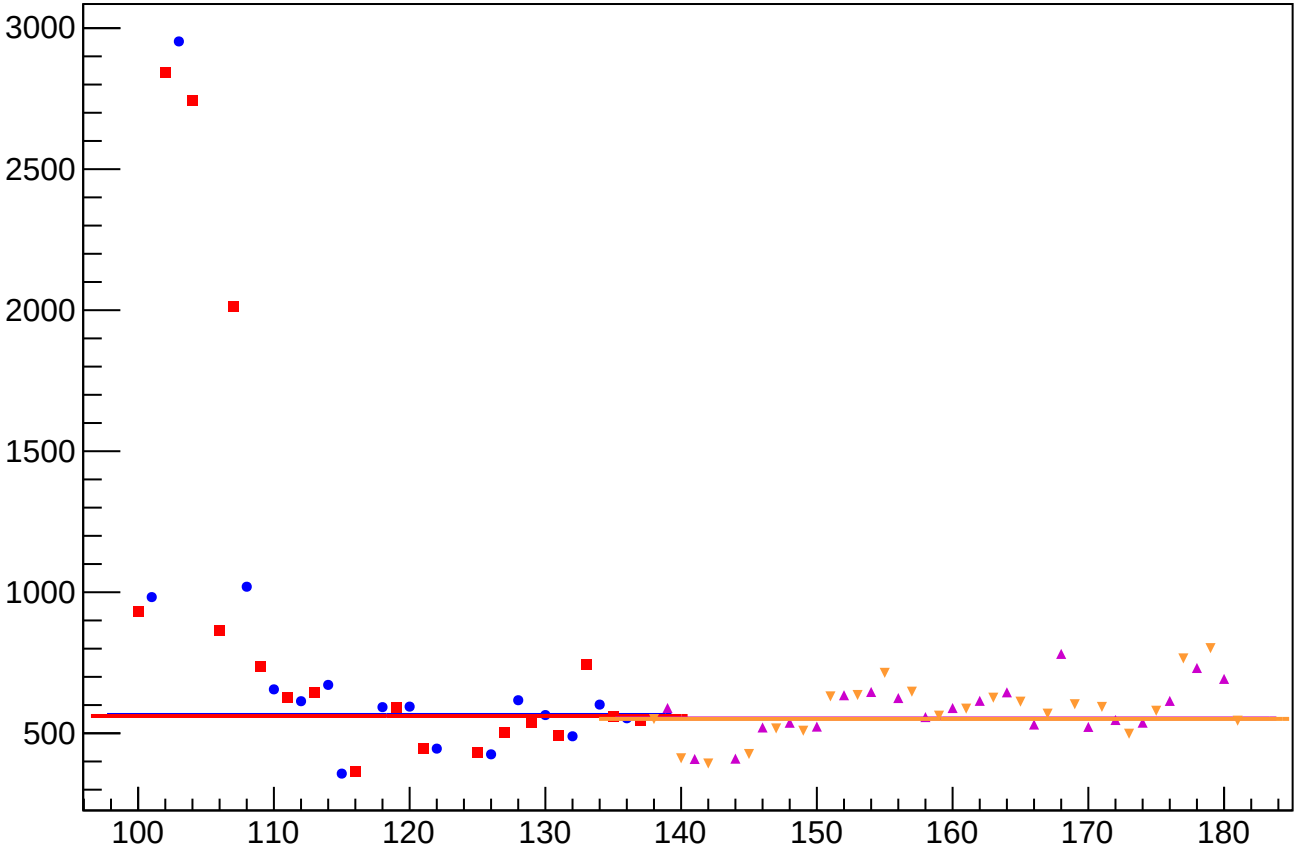
Right: 118.653+/-158.857 $\chi^2$/NDF: 43.9/33

In: 36.506+/-115.540 $\chi^2$/NDF:40.6/36

Out: -291.467+/-115.427 $\chi^2$/NDF:89.1/39

All: -127.641+/-81.659 $\chi^2$/NDF: 133.8/76

asym_usl_atl1_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 564.871+/-0.158 $\chi^2$/NDF: 1480375.5/15

Left Out: 550.972+/-0.095 $\chi^2$/NDF:1037694.7/21

Right Out: 561.273+/-0.160 $\chi^2$/NDF: 2273371.7/17

Left In: 552.537+/-0.096 $\chi^2$/NDF:928890.5/20

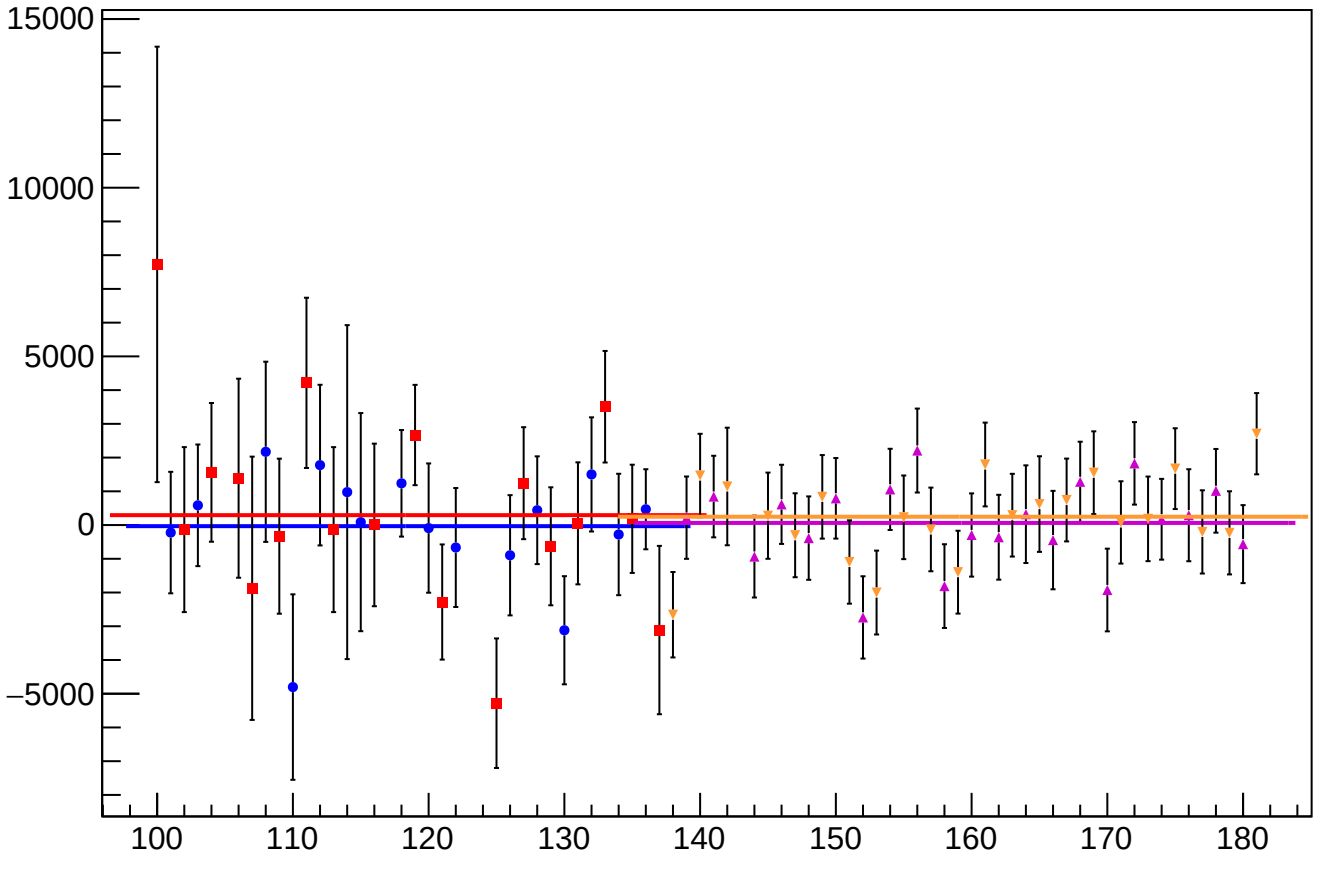
Left: 551.749+/-0.067 $\chi^2$/NDF: 1966720.4/42

Right: 563.103+/-0.112 $\chi^2$/NDF: 3754003.6/33

In: 555.855+/-0.082 $\chi^2$/NDF:2413747.7/36

Out: 553.645+/-0.082 $\chi^2$/NDF:3314127.1/39

All: 554.749+/-0.058 $\chi^2$/NDF: 5728241.1/76




Right In: -33.061+/-463.216 $\chi^2$/NDF: 10.3/15

Left Out: 246.338+/-267.898 $\chi^2$/NDF:22.1/21

Right Out: 293.384+/-483.838 $\chi^2$/NDF: 24.2/17

Left In: 63.028+/-270.302 $\chi^2$/NDF:20.1/20

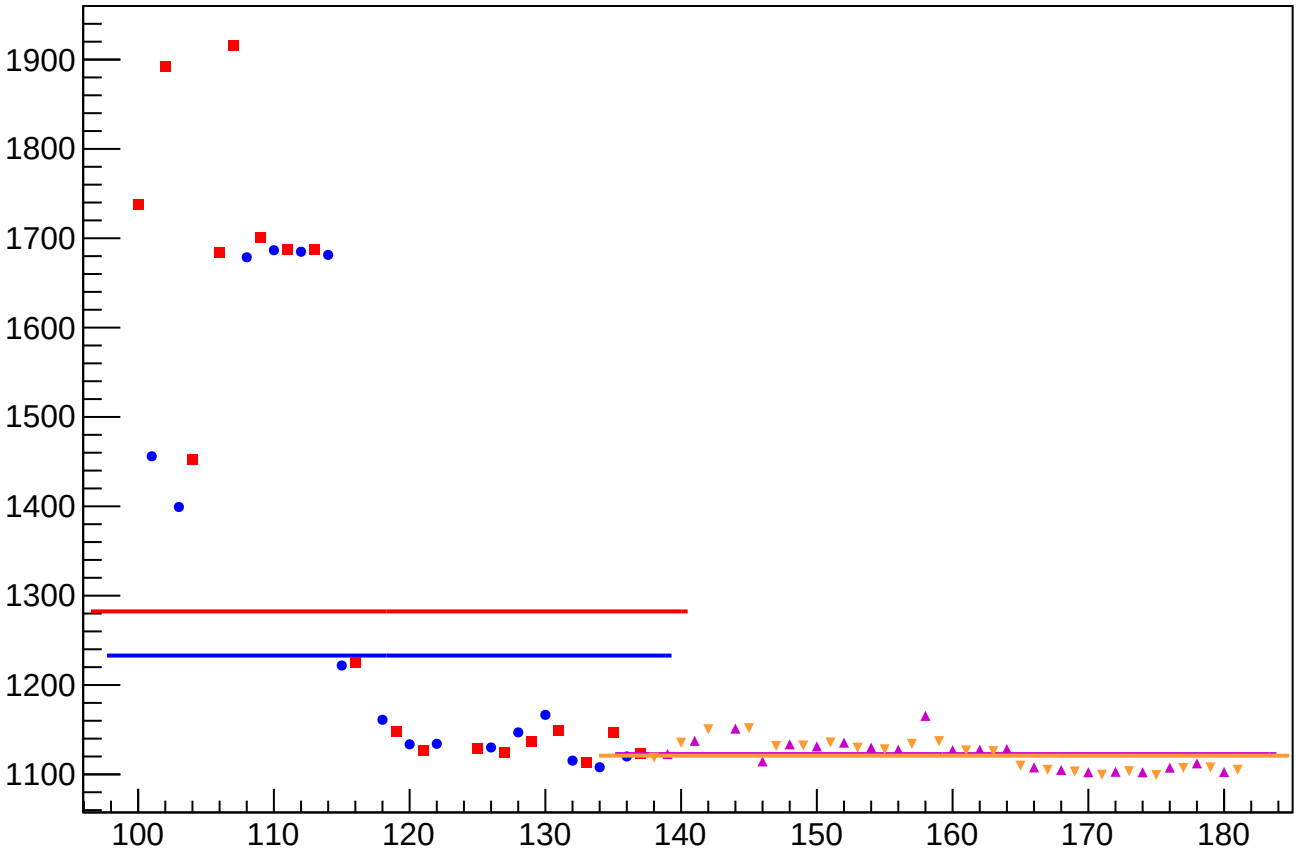
Left: 155.502+/-190.277 $\chi^2$/NDF: 42.4/42

Right: 123.057+/-334.596 $\chi^2$/NDF: 34.7/33

In: 38.620+/-233.461 $\chi^2$/NDF:30.4/36

Out: 257.377+/-234.370 $\chi^2$/NDF:46.3/39

All: 147.573+/-165.402 $\chi^2$/NDF: 77.1/76




Right In: 1232.965+/-0.328 $\chi^2$/NDF: 315470.2/15

Left Out: 1120.954+/-0.189 $\chi^2$/NDF:6784.1/21

Right Out: 1282.407+/-0.342 $\chi^2$/NDF: 543403.2/17

Left In: 1122.699+/-0.191 $\chi^2$/NDF:7847.3/20

Left: 1121.819+/-0.135 $\chi^2$/NDF: 14673.5/42

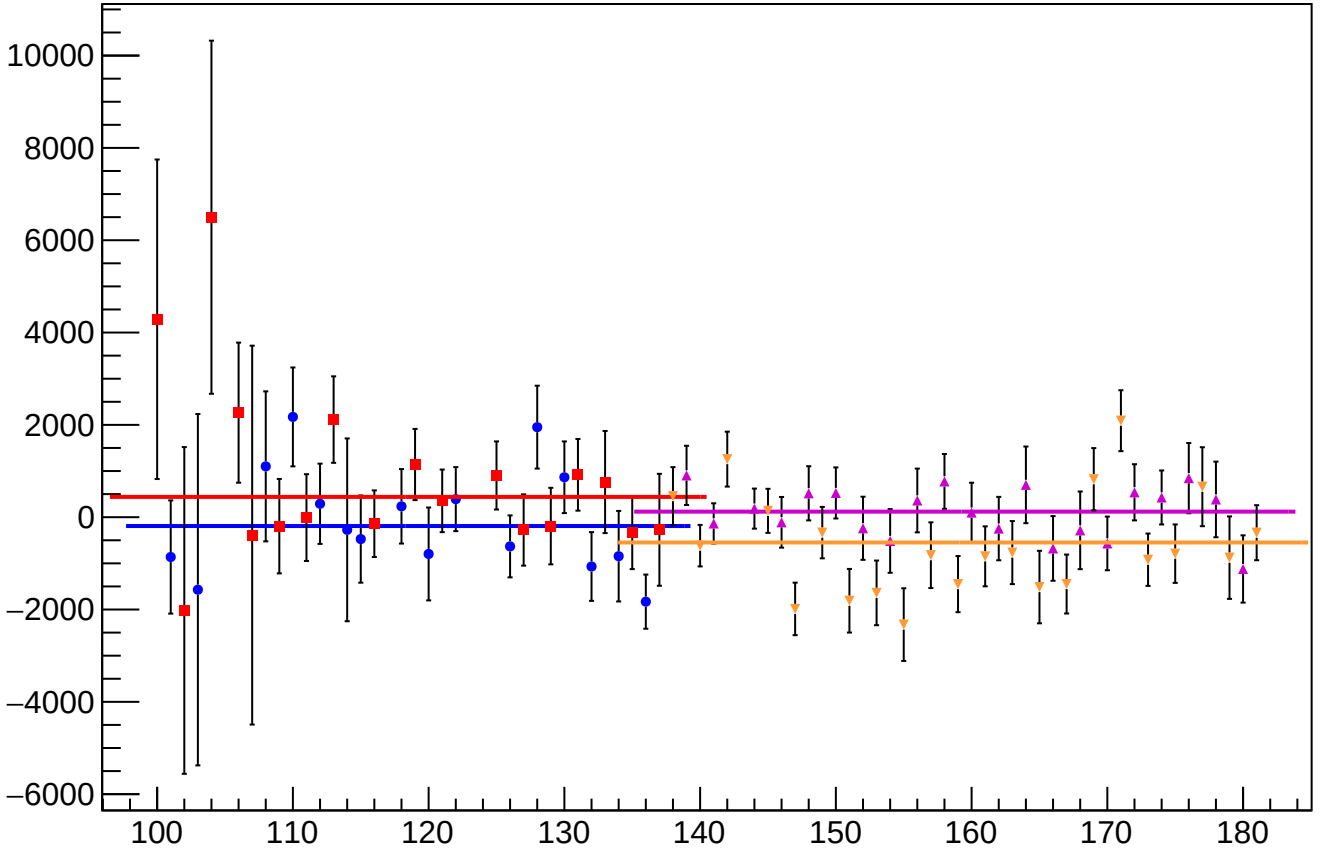
Right: 1256.610+/-0.237 $\chi^2$/NDF: 869770.2/33

In: 1150.708+/-0.165 $\chi^2$/NDF:407859.8/36

Out: 1158.838+/-0.166 $\chi^2$/NDF:720633.1/39

All: 1154.757+/-0.117 $\chi^2$/NDF: 1129700.7/76

asym_usl_atl1_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -191.527+/-222.763 $\chi^2$/NDF: 25.3/15

Left Out: -547.630+/-134.134 $\chi^2$/NDF:60.4/21

Right Out: 439.611+/-226.600 $\chi^2$/NDF: 14.6/17

Left In: 120.426+/-135.138 $\chi^2$/NDF:13.9/20

Left: -216.094+/-95.200 $\chi^2$/NDF: 86.6/42

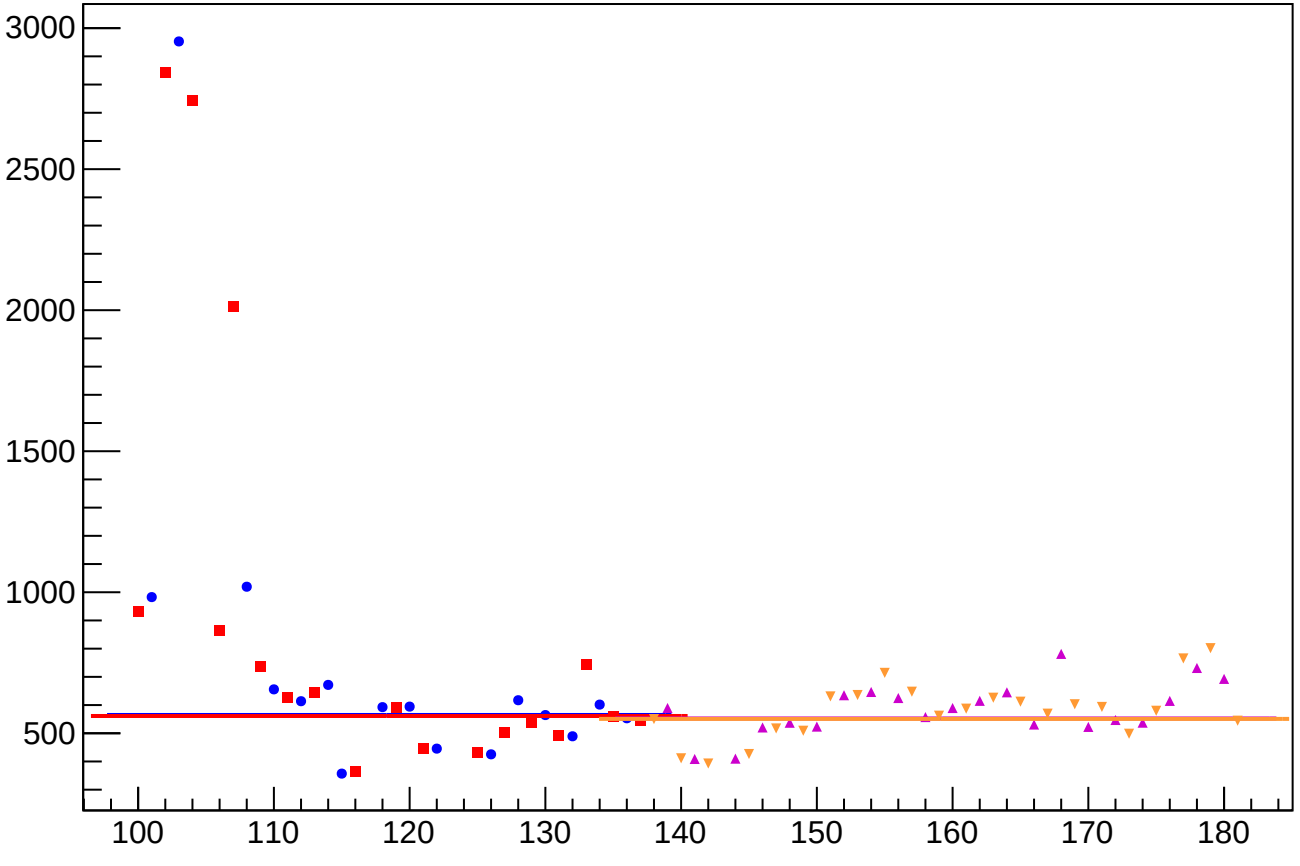
Right: 118.653+/-158.857 $\chi^2$/NDF: 43.9/33

In: 36.506+/-115.540 $\chi^2$/NDF:40.6/36

Out: -291.466+/-115.427 $\chi^2$/NDF:89.1/39

All: -127.640+/-81.659 $\chi^2$/NDF: 133.8/76

asym_usl_atl1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 564.871+/-0.158 $\chi^2$/NDF: 1480372.9/15

Left Out: 550.971+/-0.095 $\chi^2$/NDF:1037714.3/21

Right Out: 561.273+/-0.160 $\chi^2$/NDF: 2273372.4/17

Left In: 552.536+/-0.096 $\chi^2$/NDF:928904.1/20

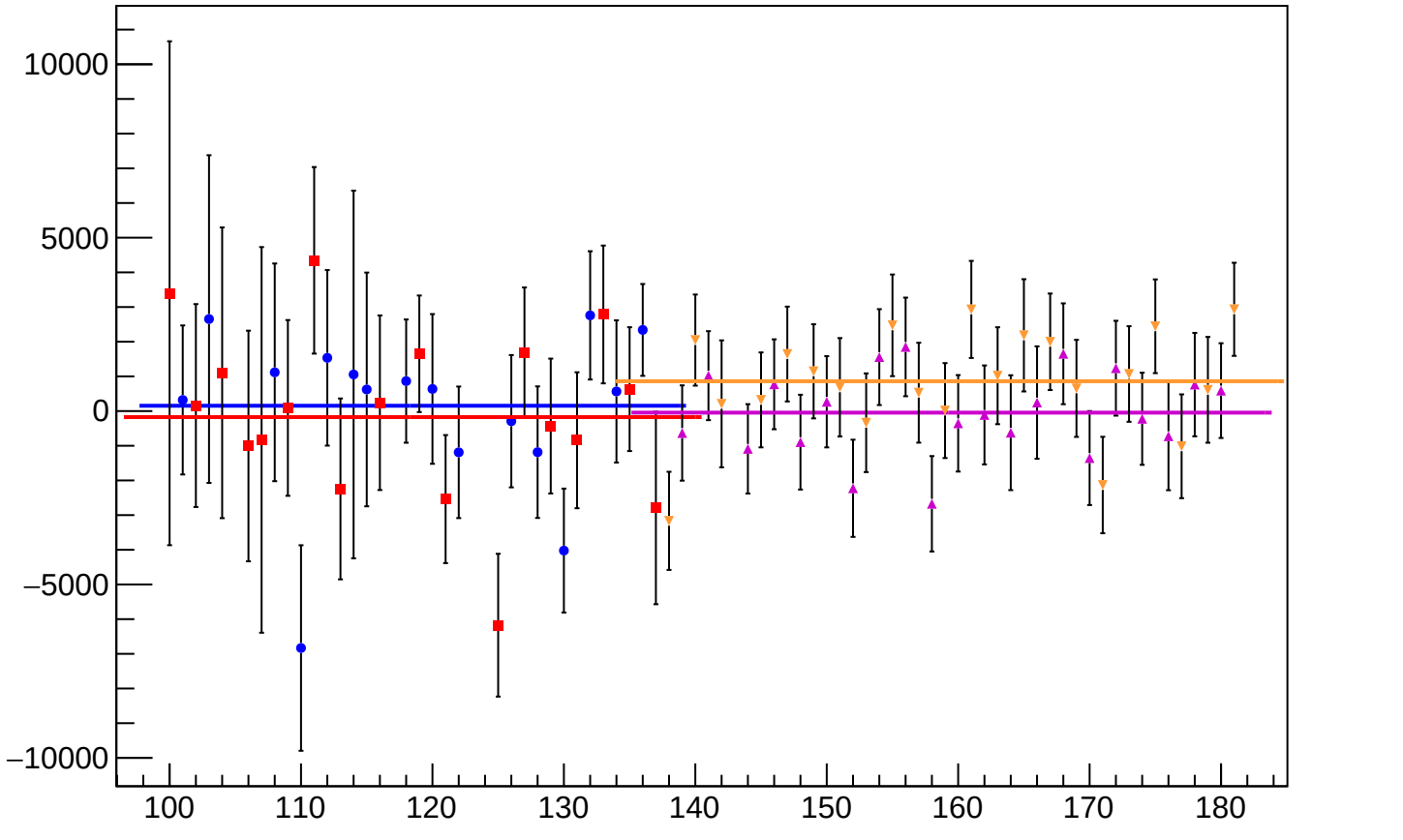
Left: 551.748+/-0.067 $\chi^2$/NDF: 1966753.6/42

Right: 563.103+/-0.112 $\chi^2$/NDF: 3754001.7/33

In: 555.855+/-0.082 $\chi^2$/NDF:2413759.1/36

Out: 553.644+/-0.082 $\chi^2$/NDF:3314147.7/39

All: 554.748+/-0.058 $\chi^2$/NDF: 5728273.2/76




Right In: 153.375+/-532.096 $\chi^2$/NDF: 17.8/15

Left Out: 860.069+/-302.676 $\chi^2$/NDF:25.5/21

Right Out: -174.319+/-550.153 $\chi^2$/NDF: 19.7/17

Left In: -44.900+/-304.664 $\chi^2$/NDF:15.7/20

Left: 410.546+/-214.724 $\chi^2$/NDF: 45.6/42

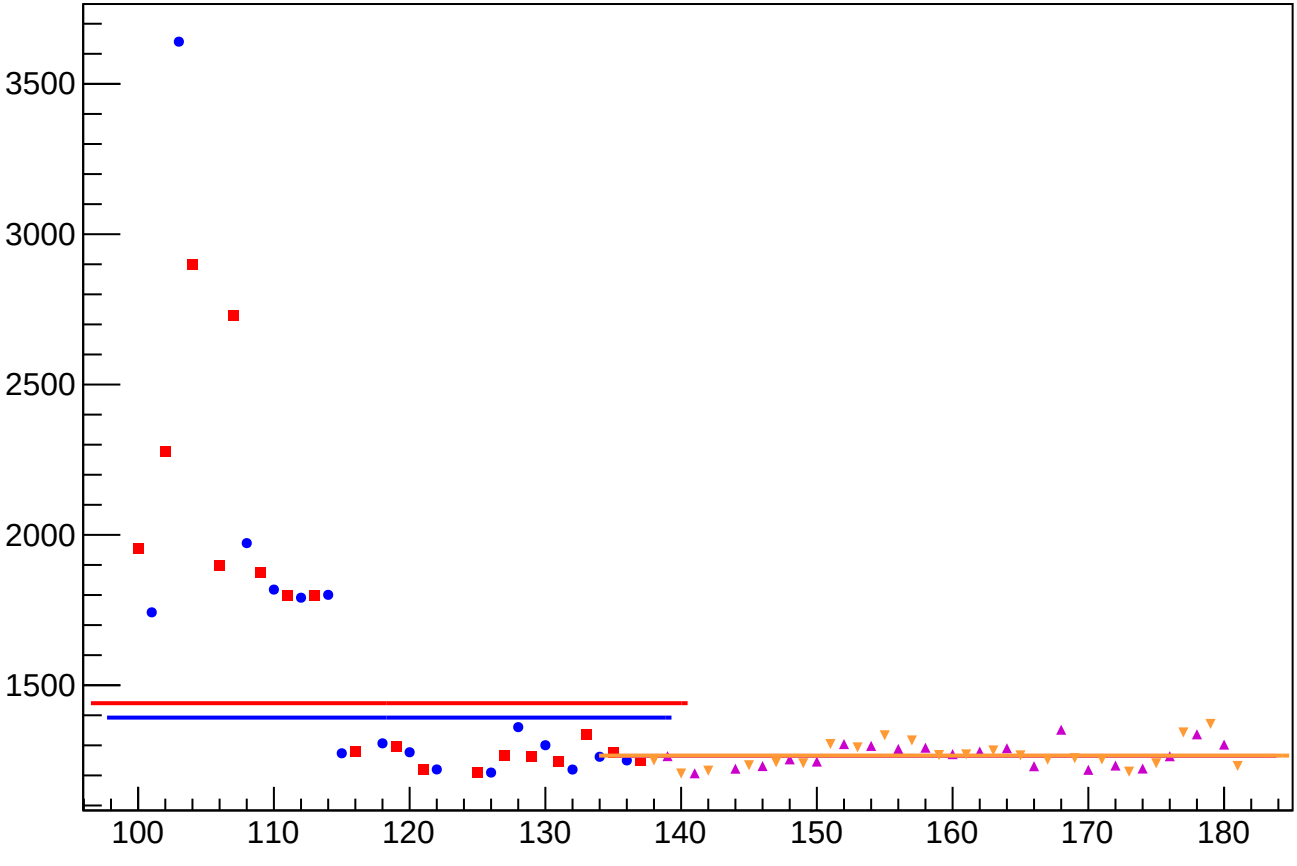
Right: -5.006+/-382.473 $\chi^2$/NDF: 37.6/33

In: 4.053+/-264.392 $\chi^2$/NDF:33.5/36

Out: 619.724+/-265.191 $\chi^2$/NDF:47.9/39

All: 310.960+/-187.235 $\chi^2$/NDF: 84.1/76

# asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1392.299+/-0.376 $\chi^2$/NDF: 779240.9/15

Left Out: 1265.917+/-0.214 $\chi^2$/NDF:37733.4/21

Right Out: 1440.222+/-0.389 $\chi^2$/NDF: 854885.8/17

Left In: 1264.835+/-0.215 $\chi^2$/NDF:32586.9/20

Left: 1265.380+/-0.152 $\chi^2$/NDF: 70333.0/42

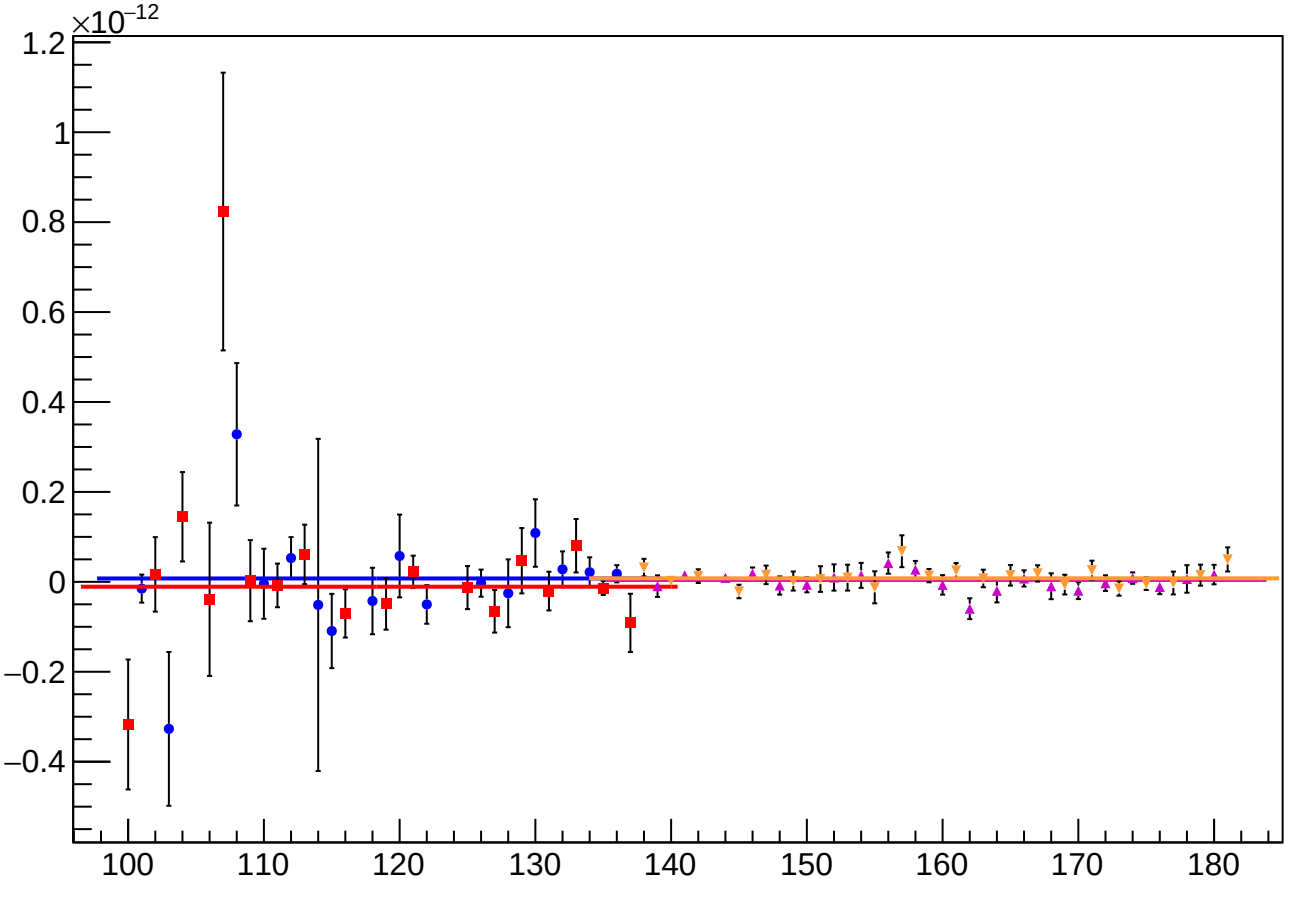
Right: 1415.461+/-0.270 $\chi^2$/NDF: 1641967.9/33

In: 1296.306+/-0.187 $\chi^2$/NDF:898259.6/36

Out: 1306.417+/-0.188 $\chi^2$/NDF:1046734.8/39

All: 1301.346+/-0.132 $\chi^2$/NDF: 1946452.6/76

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17.4/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 24.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.8/20

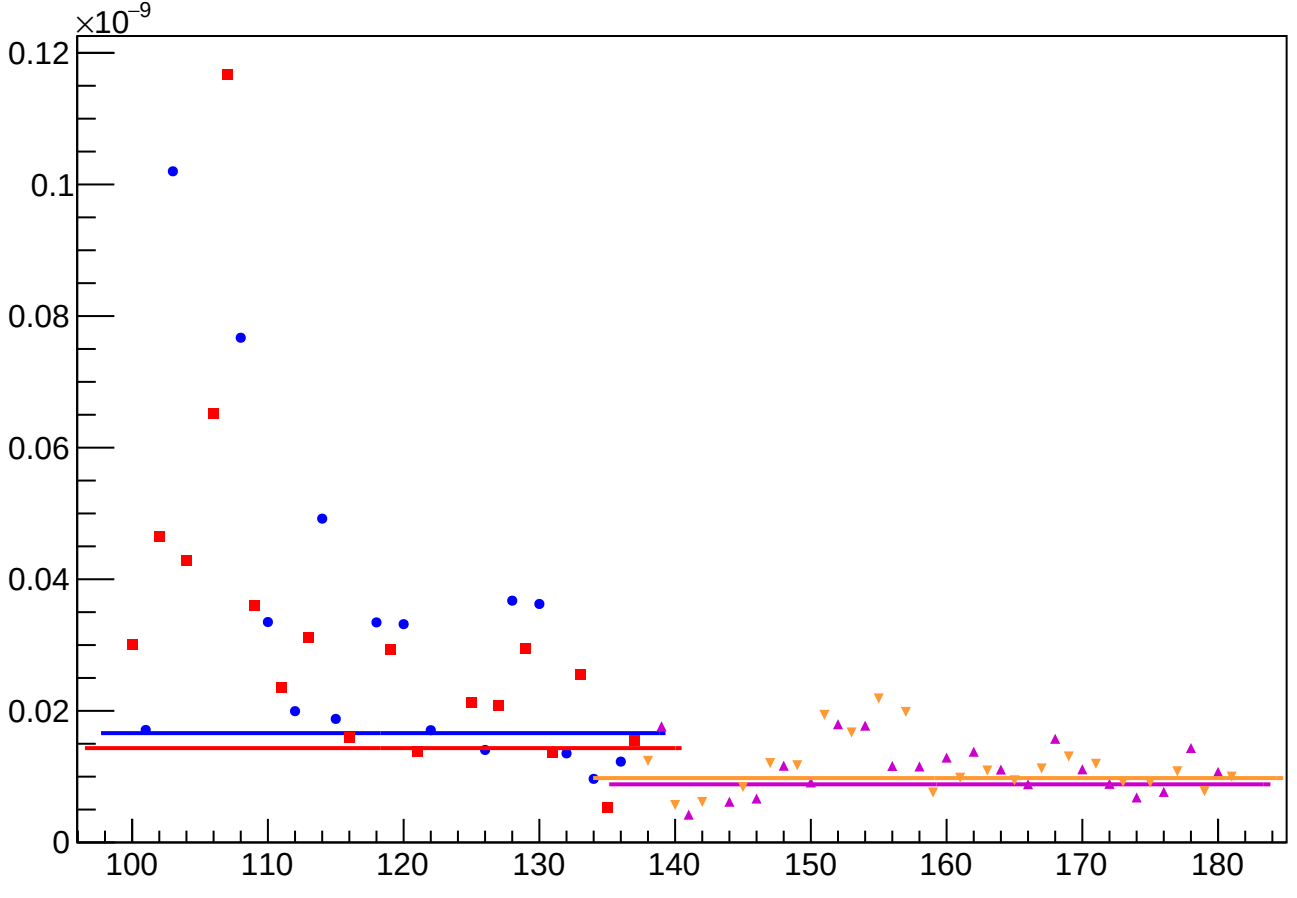
Left: 0.000+/-0.000 $\chi^2$/NDF: 37.6/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:36.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:44.1/39

All: 0.000+/-0.000 $\chi^2$/NDF: 80.9/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1573068.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1370094.9/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2258014.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1896381.2/20

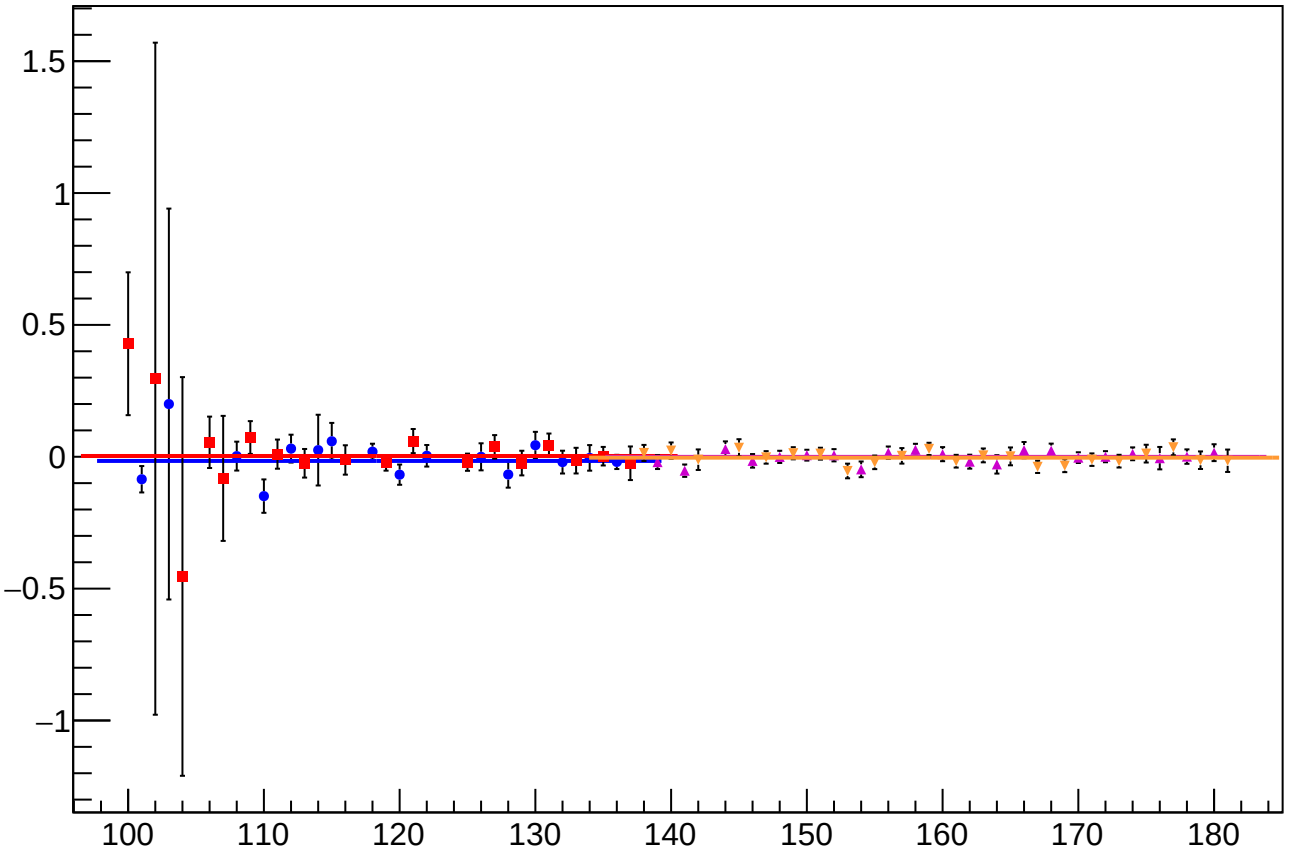
Left: 0.000+/-0.000 $\chi^2$/NDF: 3325796.6/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 3876075.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:4383019.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:3950716.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 8367605.7/76




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: -0.003+/-0.006 $\chi^2$/NDF:16.0/21

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.000+/-0.006 $\chi^2$/NDF:14.8/20

Left: -0.002+/-0.004 $\chi^2$/NDF: 30.9/42

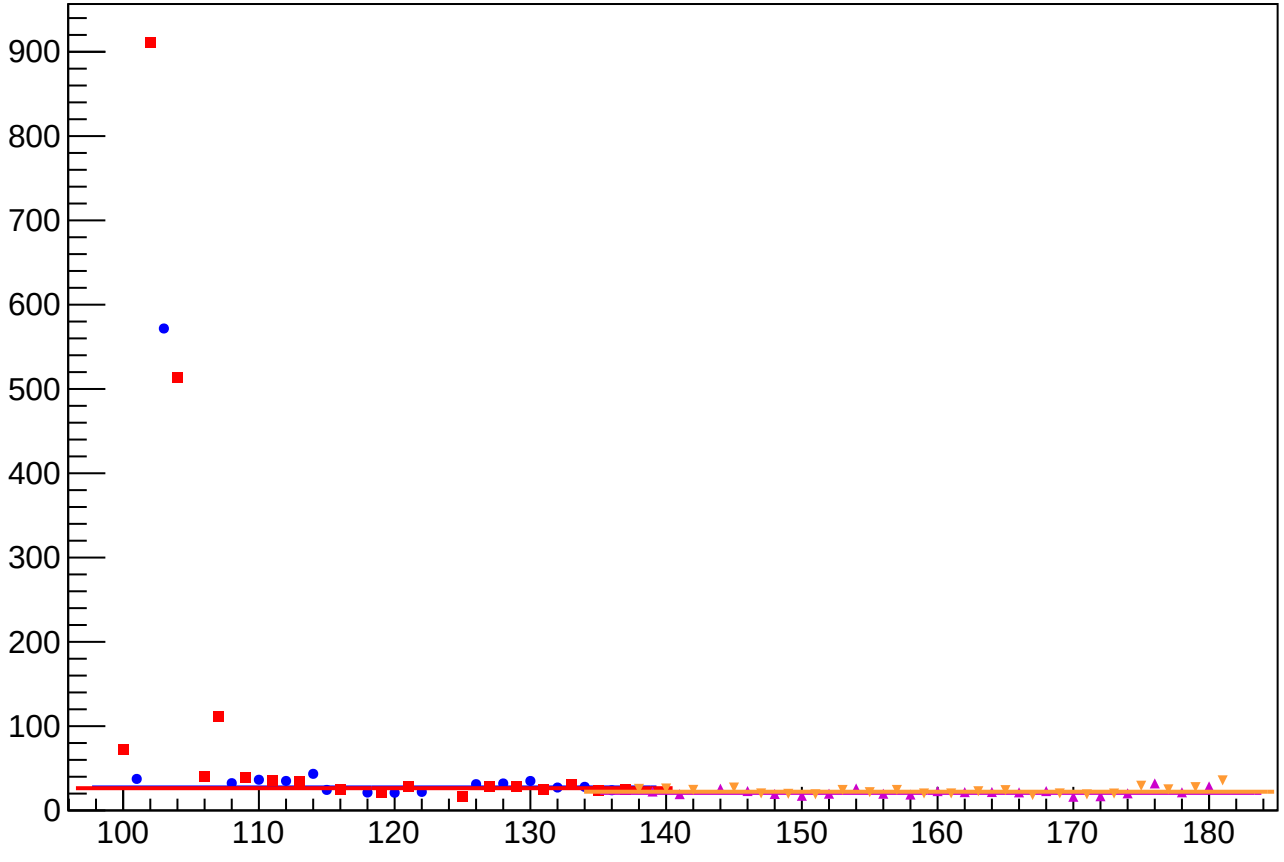
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.8/33

In: -0.003+/-0.005 $\chi^2$/NDF:30.8/36

Out: -0.002+/-0.005 $\chi^2$/NDF:26.1/39

All: -0.003+/-0.004 $\chi^2$/NDF: 56.9/76

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568329.0/15

Left Out: 22.222+/-0.004 $\chi^2$/NDF:724976.8/21

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614691.8/17

Left In: 20.844+/-0.004 $\chi^2$/NDF:694001.2/20

Left: 21.503+/-0.003 $\chi^2$/NDF: 1477612.0/42

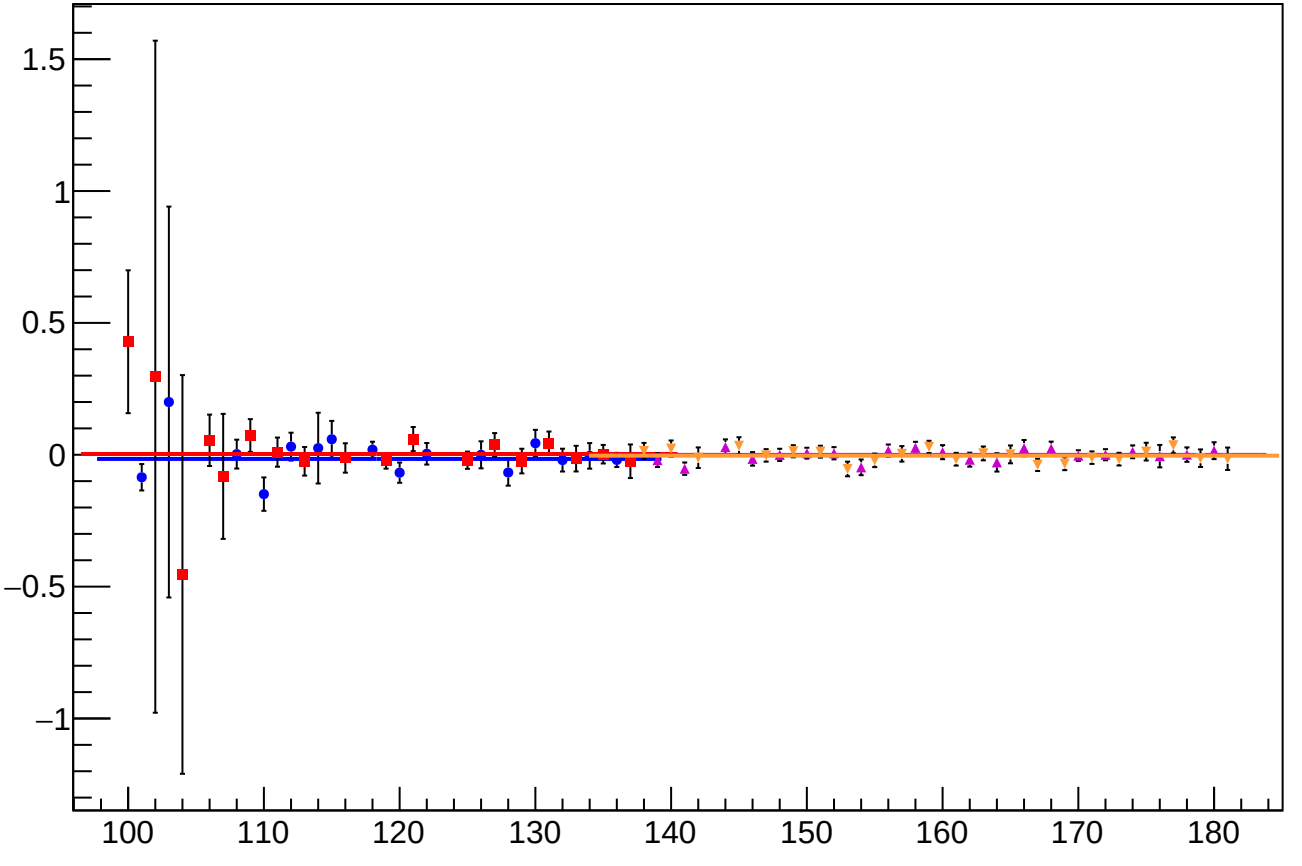
Right: 26.870+/-0.006 $\chi^2$/NDF: 4188911.1/33

In: 22.060+/-0.004 $\chi^2$/NDF:2769537.5/36

Out: 23.013+/-0.004 $\chi^2$/NDF:3535470.1/39

All: 22.517+/-0.003 $\chi^2$/NDF: 6339586.9/76

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: -0.003+/-0.006 $\chi^2$/NDF:16.0/21

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.000+/-0.006 $\chi^2$/NDF:14.8/20

Left: -0.002+/-0.004 $\chi^2$/NDF: 30.9/42

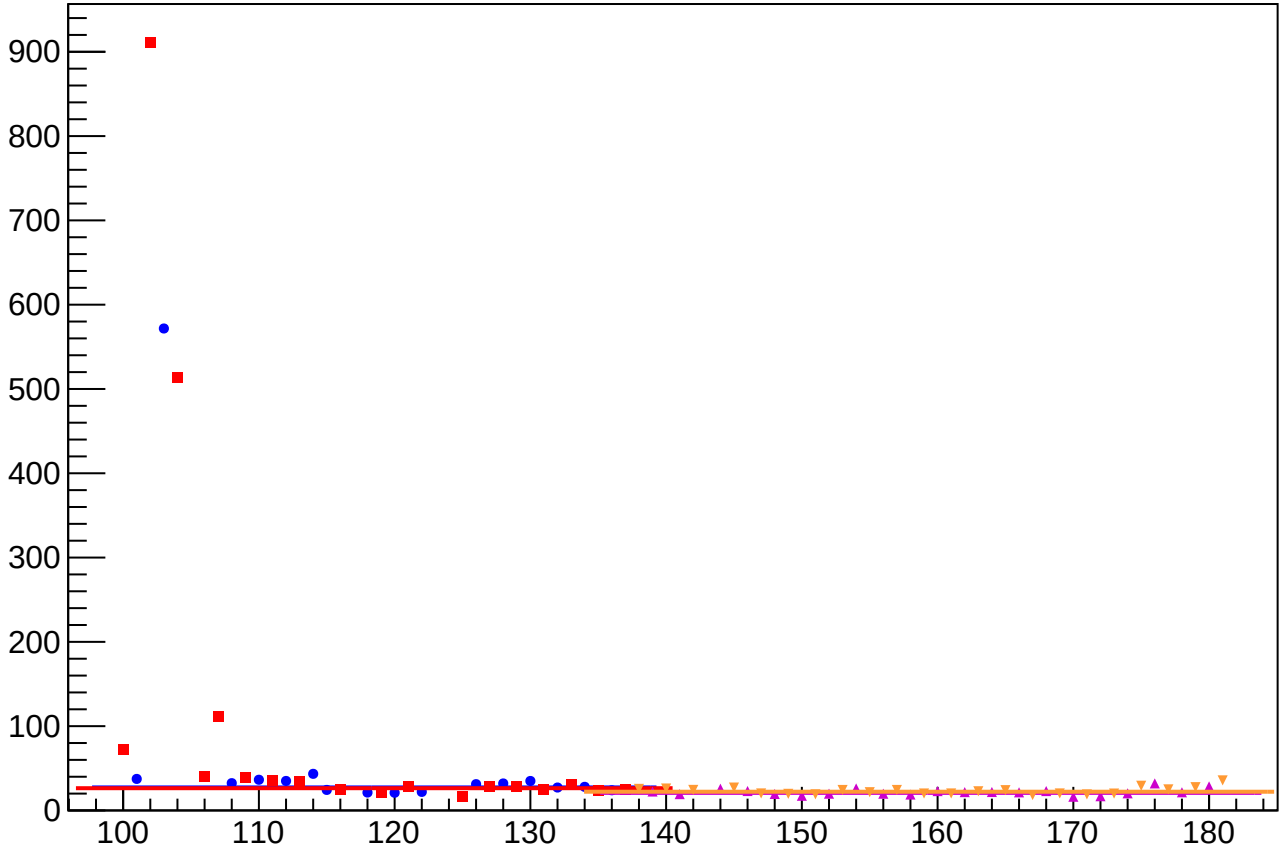
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.8/33

In: -0.003+/-0.005 $\chi^2$/NDF:30.8/36

Out: -0.002+/-0.005 $\chi^2$/NDF:26.1/39

All: -0.003+/-0.004 $\chi^2$/NDF: 56.9/76

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568329.0/15

Left Out: 22.222+/-0.004 $\chi^2$/NDF:724976.8/21

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614691.8/17

Left In: 20.844+/-0.004 $\chi^2$/NDF:694001.2/20

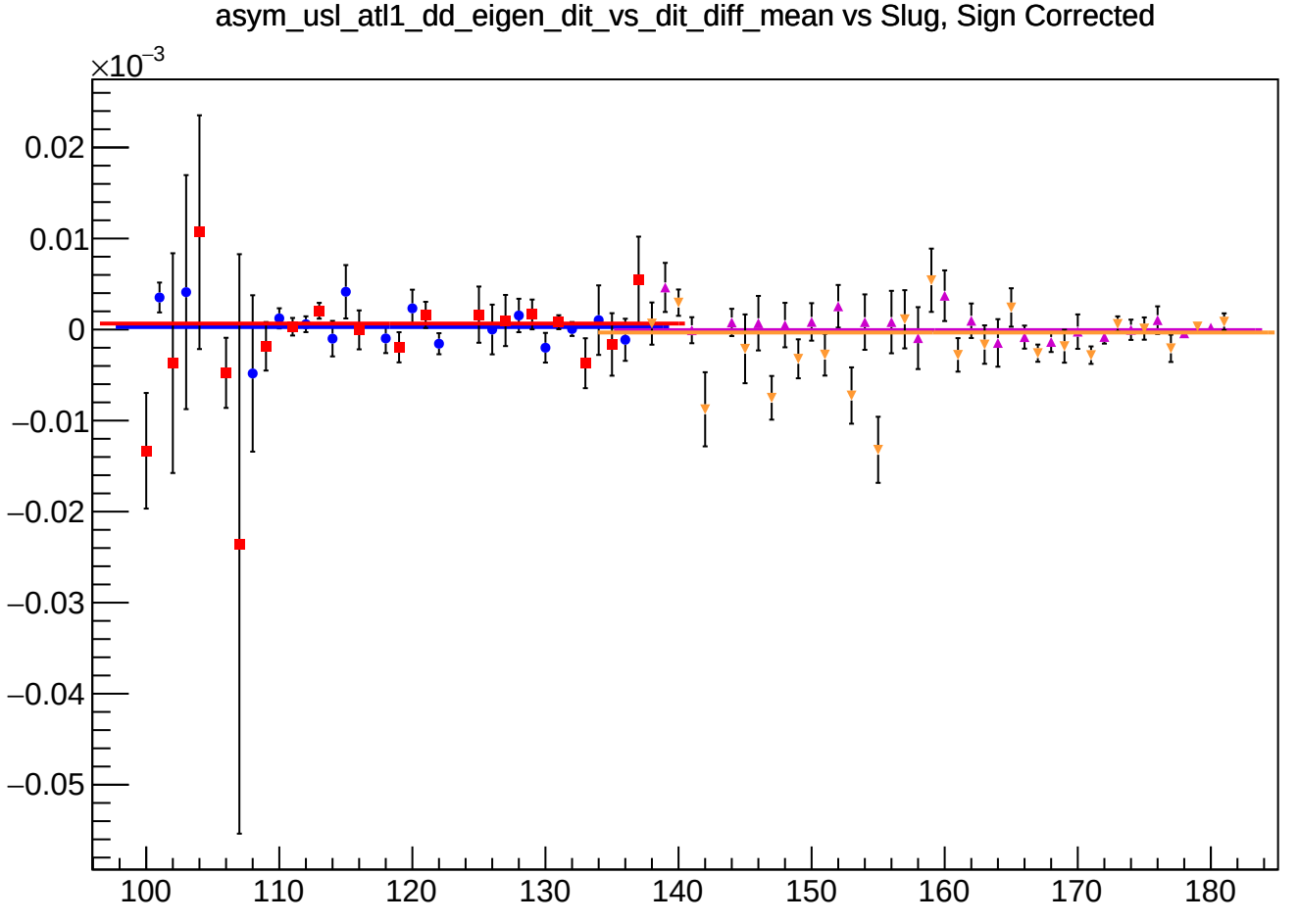
Left: 21.503+/-0.003 $\chi^2$/NDF: 1477612.0/42

Right: 26.870+/-0.006 $\chi^2$/NDF: 4188911.1/33

In: 22.060+/-0.004 $\chi^2$/NDF:2769537.5/36

Out: 23.013+/-0.004 $\chi^2$/NDF:3535470.1/39

All: 22.517+/-0.003 $\chi^2$/NDF: 6339586.9/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:67.8/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.3/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:12.4/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 80.9/42

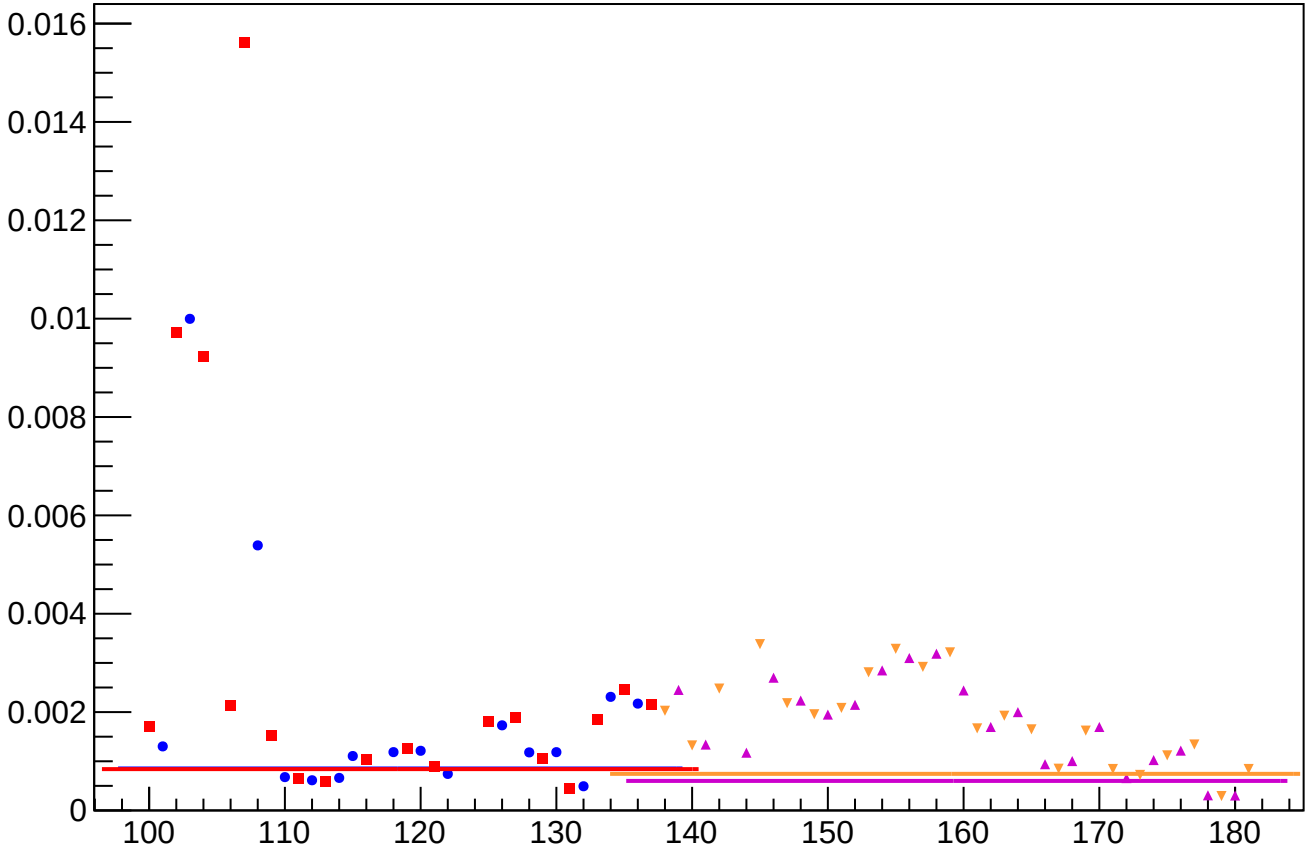
Right: 0.000+/-0.000 $\chi^2$/NDF: 34.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:27.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:91.6/39

All: -0.000+/-0.000 $\chi^2$/NDF: 119.2/76

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 3863719.0/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:14483974.8/21

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5039455.2/17

Left In: 0.001+/-0.000 $\chi^2$/NDF:15452905.3/20

Left: 0.001+/-0.000 $\chi^2$/NDF: 30364793.0/42

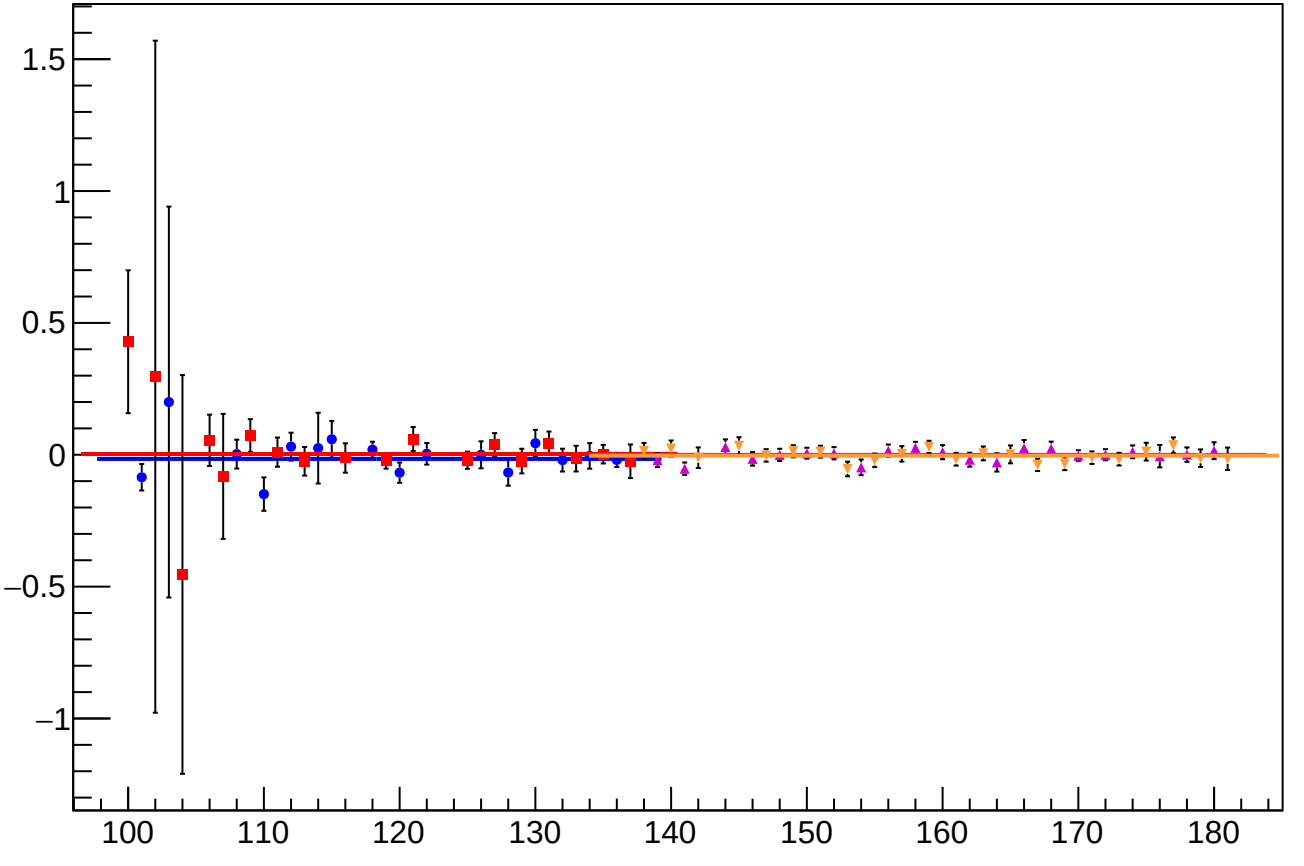
Right: 0.001+/-0.000 $\chi^2$/NDF: 8904244.0/33

In: 0.001+/-0.000 $\chi^2$/NDF:20014947.5/36

Out: 0.001+/-0.000 $\chi^2$/NDF:19609952.9/39

All: 0.001+/-0.000 $\chi^2$/NDF: 39966279.6/76

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: -0.003+/-0.006 $\chi^2$/NDF:16.0/21

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.000+/-0.006 $\chi^2$/NDF:14.8/20

Left: -0.002+/-0.004 $\chi^2$/NDF: 30.9/42

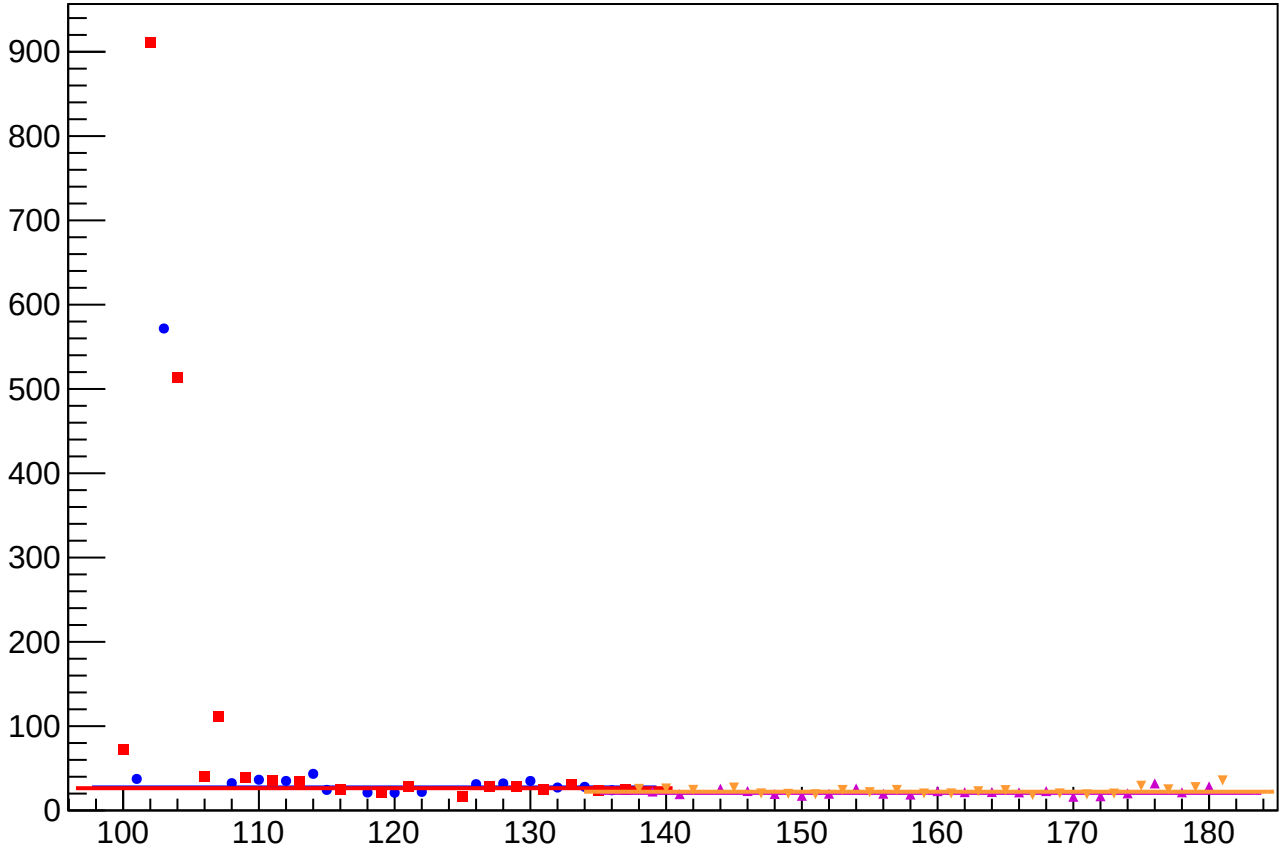
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.7/33

In: -0.003+/-0.005 $\chi^2$/NDF:30.8/36

Out: -0.002+/-0.005 $\chi^2$/NDF:26.1/39

All: -0.003+/-0.004 $\chi^2$/NDF: 56.9/76

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568325.9/15

Left Out: 22.222+/-0.004 $\chi^2$/NDF:724949.3/21

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614710.8/17

Left In: 20.844+/-0.004 $\chi^2$/NDF:694017.7/20

Left: 21.503+/-0.003 $\chi^2$/NDF: 1477599.8/42

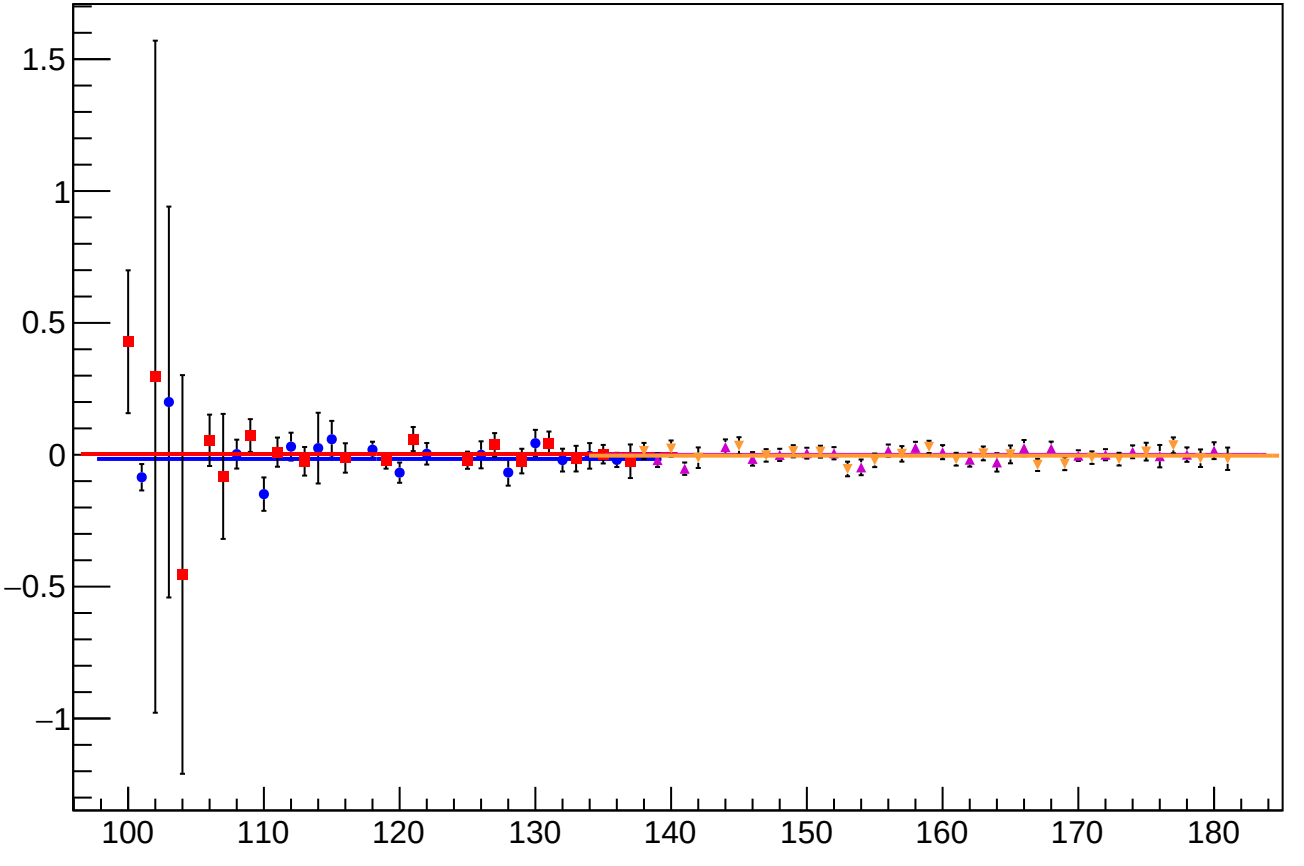
Right: 26.870+/-0.006 $\chi^2$/NDF: 4188927.1/33

In: 22.060+/-0.004 $\chi^2$/NDF:2769553.5/36

Out: 23.013+/-0.004 $\chi^2$/NDF:3535465.0/39

All: 22.517+/-0.003 $\chi^2$/NDF: 6339596.9/76

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: -0.003+/-0.006 $\chi^2$/NDF:16.0/21

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.000+/-0.006 $\chi^2$/NDF:14.8/20

Left: -0.002+/-0.004 $\chi^2$/NDF: 30.9/42

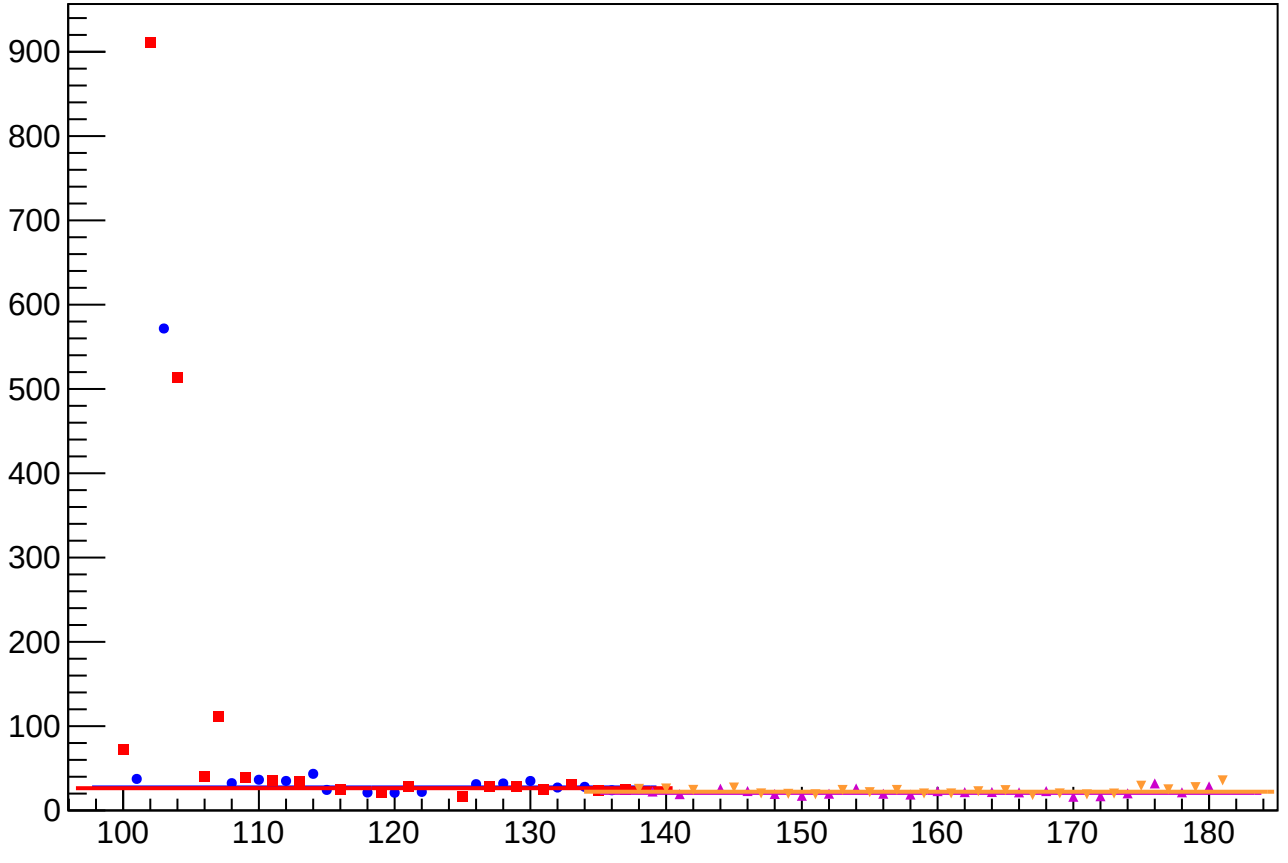
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.7/33

In: -0.003+/-0.005 $\chi^2$/NDF:30.8/36

Out: -0.002+/-0.005 $\chi^2$/NDF:26.1/39

All: -0.003+/-0.004 $\chi^2$/NDF: 56.9/76

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568325.9/15

Left Out: 22.222+/-0.004 $\chi^2$/NDF:724949.3/21

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614710.8/17

Left In: 20.844+/-0.004 $\chi^2$/NDF:694017.7/20

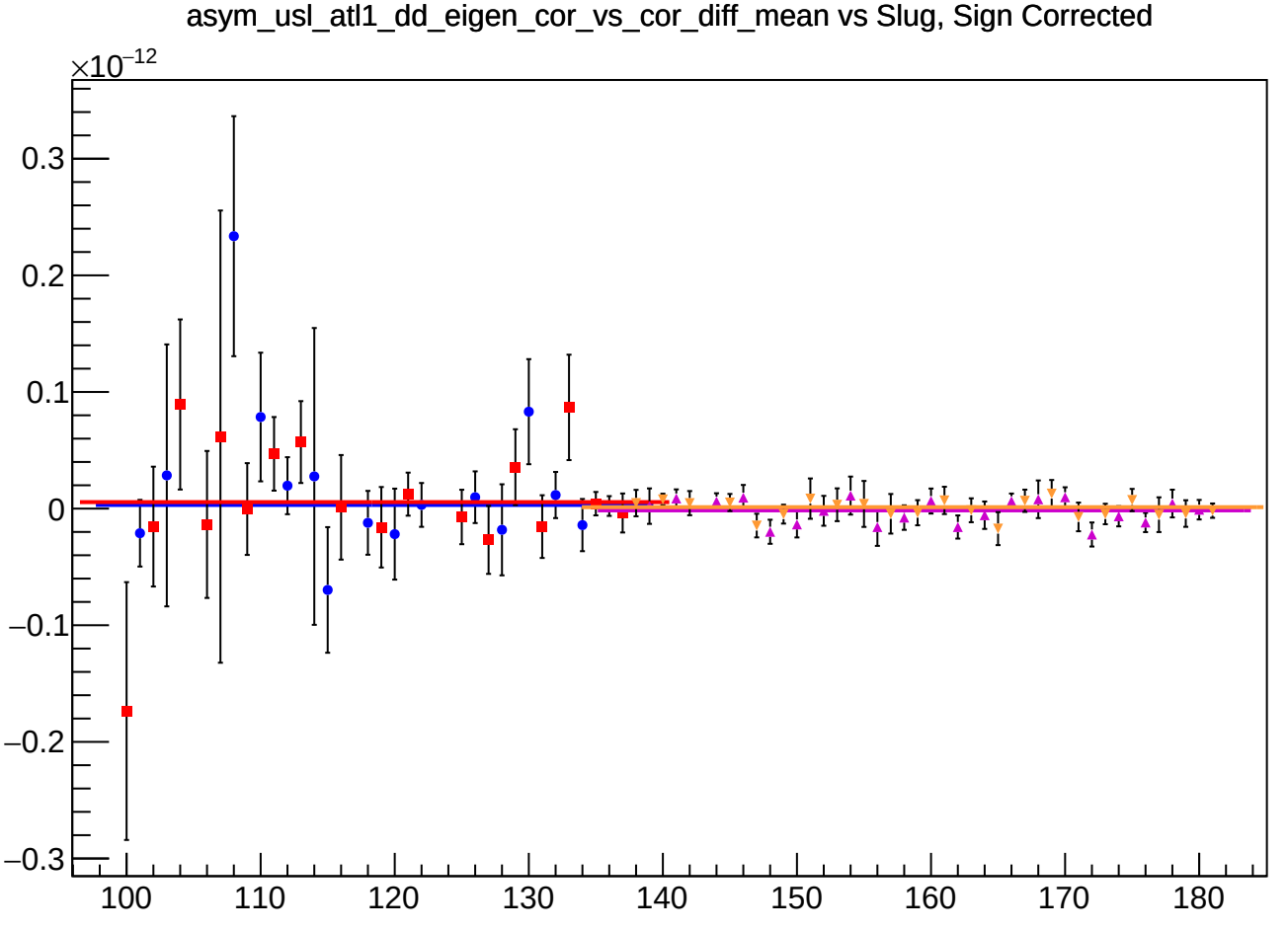
Left: 21.503+/-0.003 $\chi^2$/NDF: 1477599.8/42

Right: 26.870+/-0.006 $\chi^2$/NDF: 4188927.1/33

In: 22.060+/-0.004 $\chi^2$/NDF:2769553.5/36

Out: 23.013+/-0.004 $\chi^2$/NDF:3535465.0/39

All: 22.517+/-0.003 $\chi^2$/NDF: 6339596.9/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.1/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.3/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.5/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 34.4/42

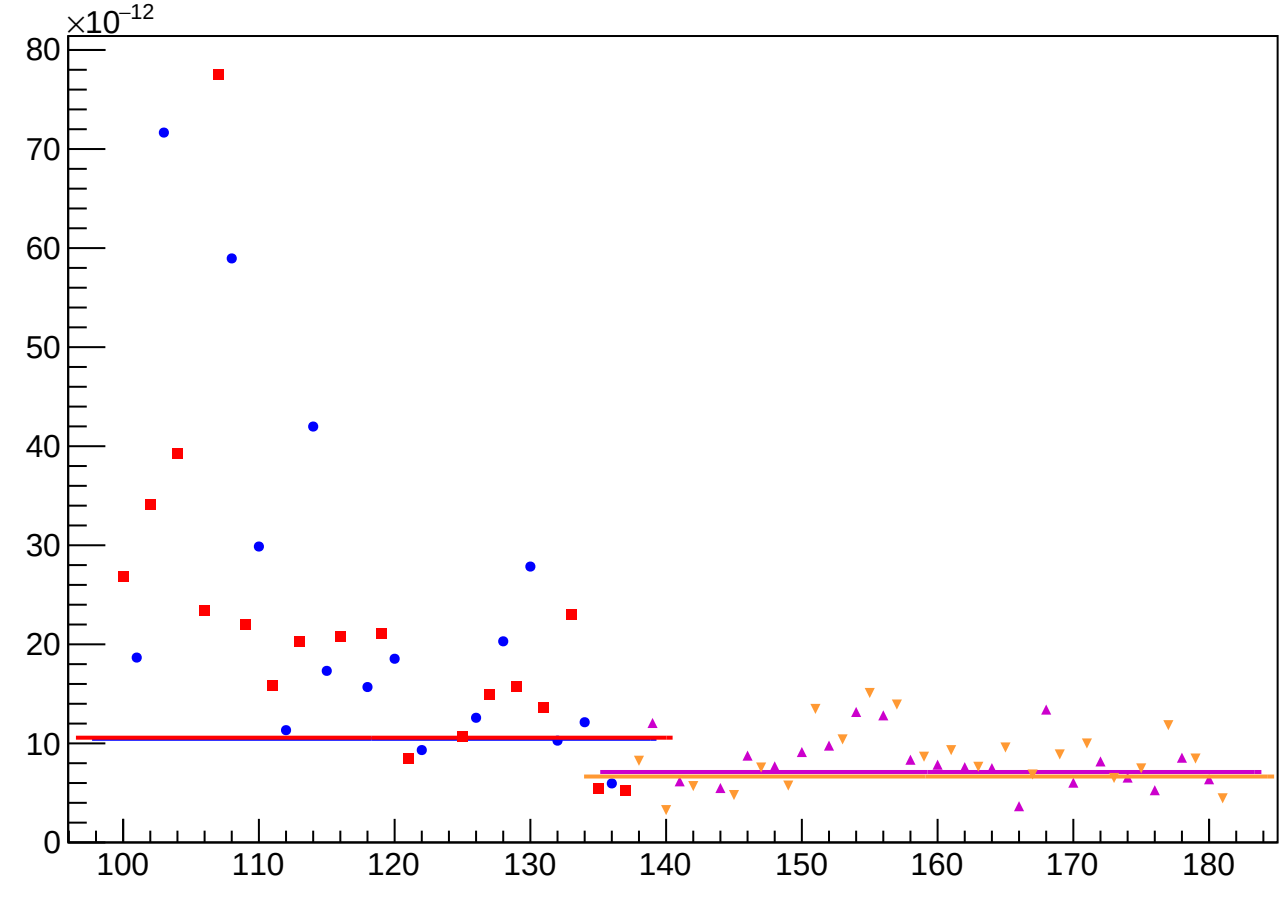
Right: 0.000+/-0.000 $\chi^2$/NDF: 30.4/33

In: -0.000+/-0.000 $\chi^2$/NDF:38.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:26.8/39

All: 0.000+/-0.000 $\chi^2$/NDF: 65.8/76

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2794895.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3426885.0/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2771384.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2183897.2/20

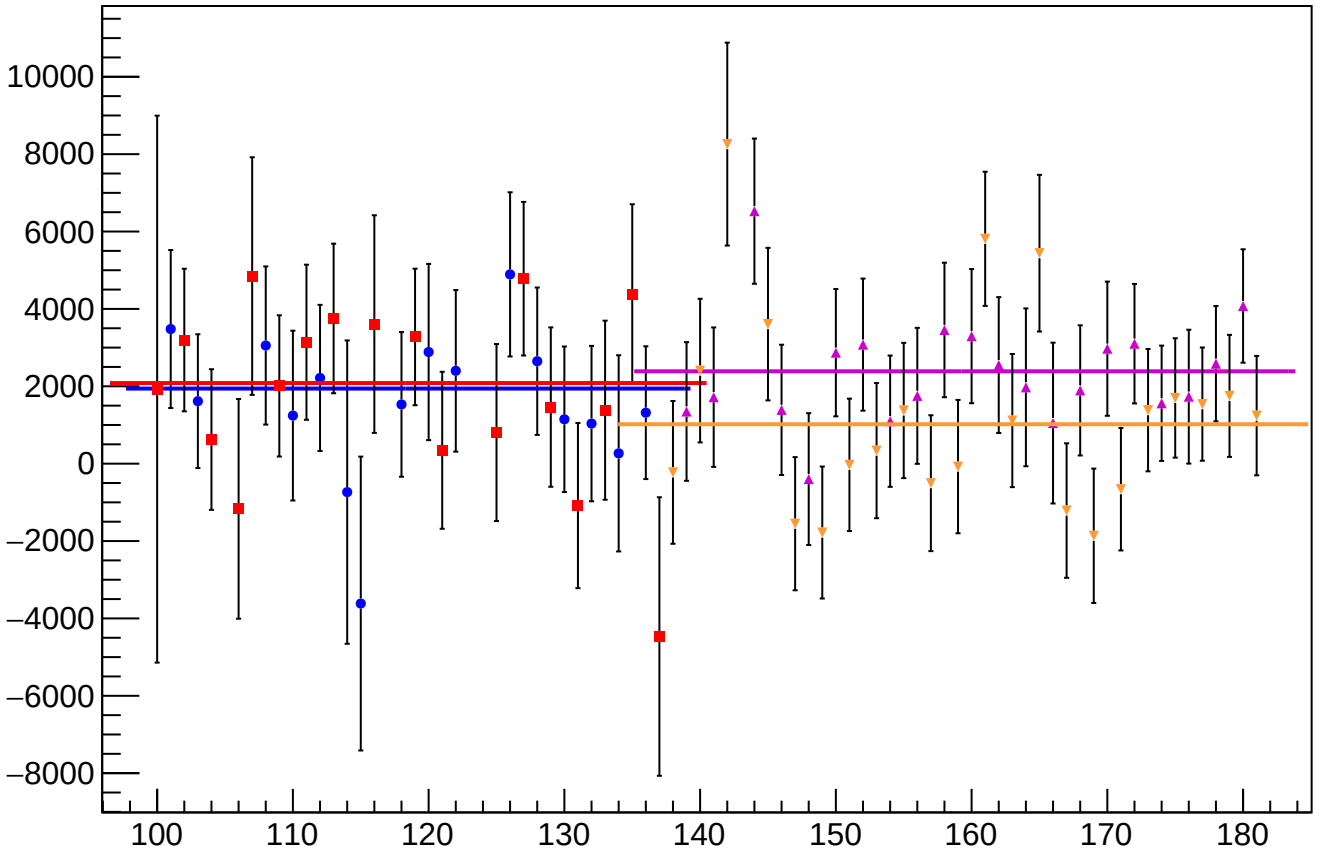
Left: 0.000+/-0.000 $\chi^2$/NDF: 5657992.1/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 5566631.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:5575652.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6942739.3/39

All: 0.000+/-0.000 $\chi^2$/NDF: 12573785.8/76




Right In: 1940.976+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 1019.295+/-367.365 $\chi^2$/NDF:35.6/21

Right Out: 2083.952+/-519.583 $\chi^2$/NDF: 14.5/17

Left In: 2387.229+/-371.407 $\chi^2$/NDF:12.6/20

Left: 1695.778+/-261.184 $\chi^2$/NDF: 55.1/42

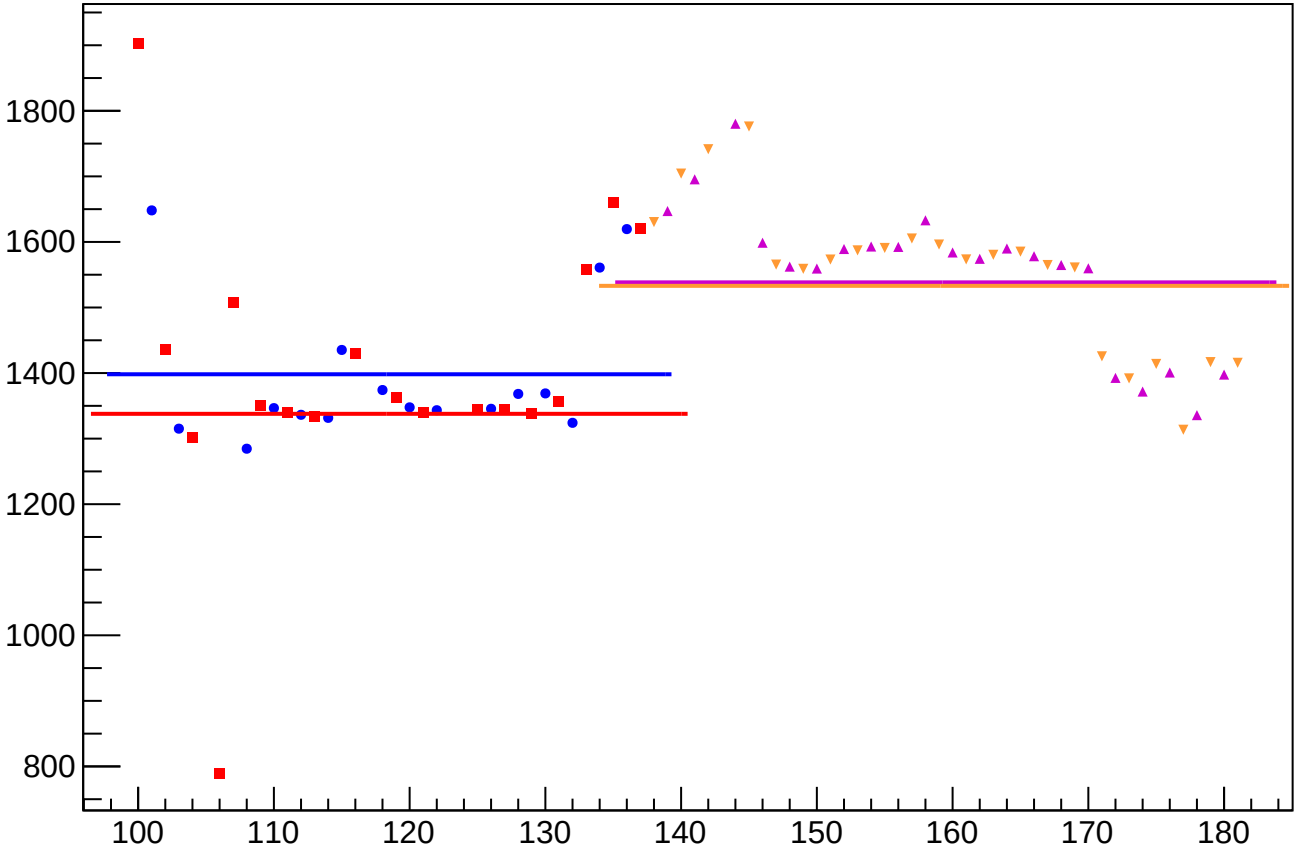
Right: 2012.819+/-368.313 $\chi^2$/NDF: 21.4/33

In: 2237.311+/-302.657 $\chi^2$/NDF:20.1/36

Out: 1374.134+/-299.962 $\chi^2$/NDF:52.8/39

All: 1801.862+/-213.052 $\chi^2$/NDF: 77.0/76

# reg_asym_usl_atl2_avg_rms vs Slug, Sign Corrected




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1533.040+/-0.260 $\chi^2$/NDF:187660.0/21

Right Out: 1337.819+/-0.356 $\chi^2$/NDF: 317763.3/17

Left In: 1538.339+/-0.263 $\chi^2$/NDF:186650.3/20

Left: 1535.660+/-0.185 $\chi^2$/NDF: 374516.0/42

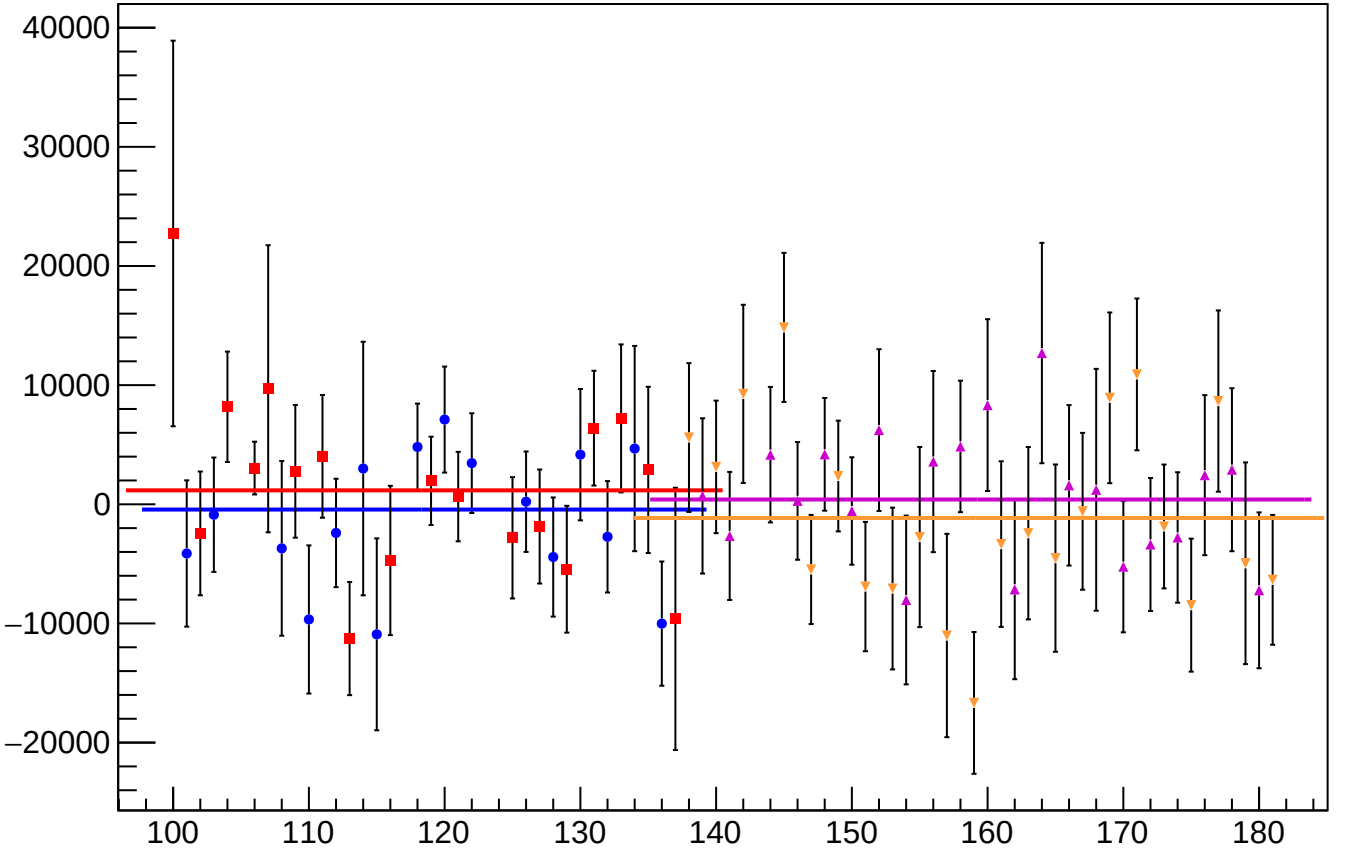
Right: 1366.881+/-0.256 $\chi^2$/NDF: 425531.4/33

In: 1491.246+/-0.214 $\chi^2$/NDF:376284.5/36

Out: 1465.188+/-0.210 $\chi^2$/NDF:701722.5/39

All: 1477.960+/-0.150 $\chi^2$/NDF: 1085566.1/76

asym_usl_atl2_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -441.138+/-1295.916 $\chi^2$/NDF: 15.9/15

Left Out: -1148.160+/-1327.168 $\chi^2$/NDF:32.2/21

Right Out: 1171.548+/-1119.890 $\chi^2$/NDF: 19.7/17

Left In: 401.336+/-1334.685 $\chi^2$/NDF:11.9/20

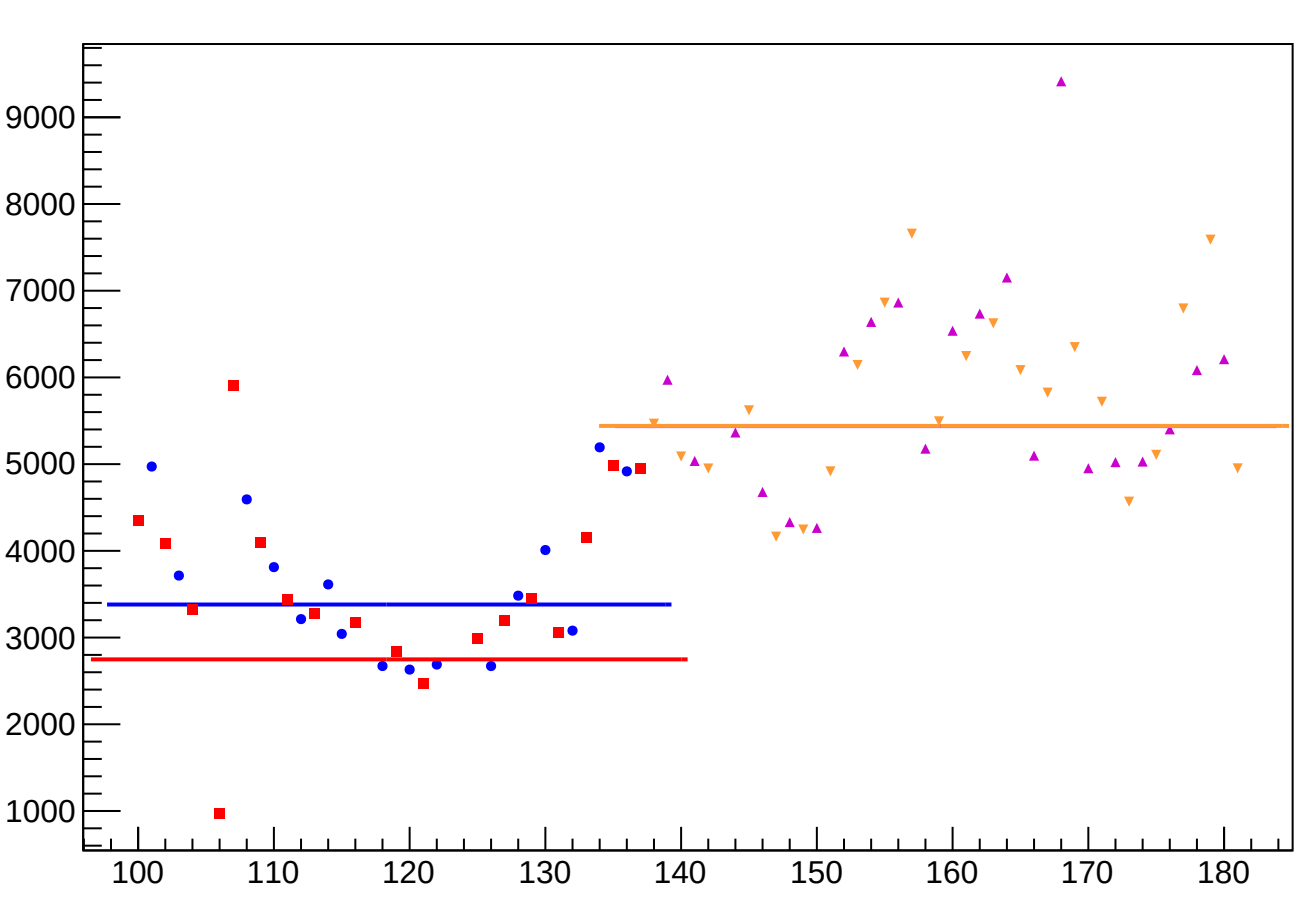
Left: -377.787+/-941.096 $\chi^2$/NDF: 44.7/42

Right: 482.092+/-847.335 $\chi^2$/NDF: 36.5/33

In: -32.314+/-929.755 $\chi^2$/NDF:28.0/36

Out: 206.786+/-855.893 $\chi^2$/NDF:53.6/39

All: 97.109+/-629.703 $\chi^2$/NDF: 81.6/76




Right In: 3381.117+/-0.916 $\chi^2$/NDF: 757146.6/15

Left Out: 5440.950+/-0.938 $\chi^2$/NDF:960401.7/21

Right Out: 2748.372+/-0.792 $\chi^2$/NDF: 2264563.8/17

Left In: 5438.770+/-0.944 $\chi^2$/NDF:1052052.1/20

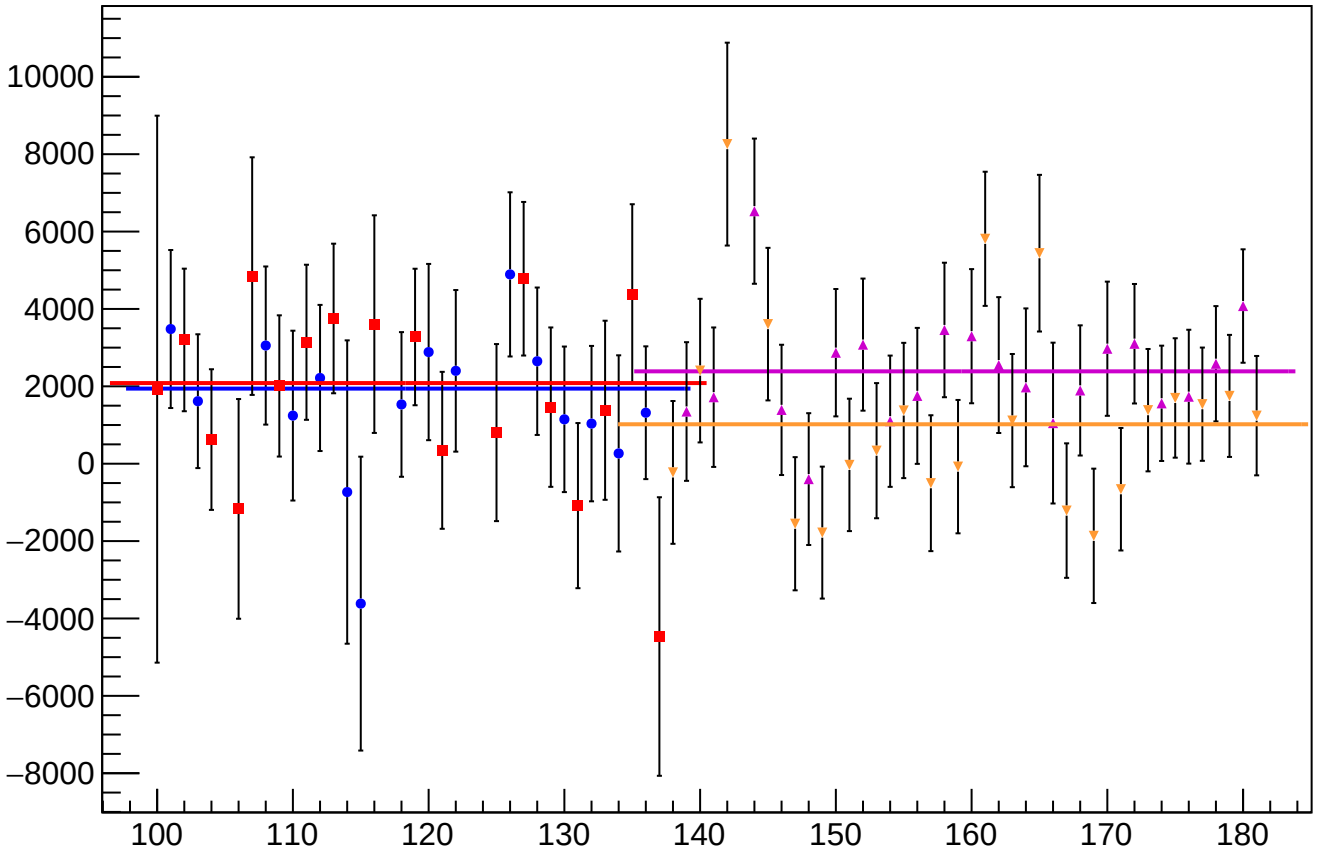
Left: 5439.866+/-0.665 $\chi^2$/NDF: 2012456.6/42

Right: 3018.883+/-0.599 $\chi^2$/NDF: 3294667.2/33

In: 4379.626+/-0.657 $\chi^2$/NDF:4256008.1/36

Out: 3868.210+/-0.605 $\chi^2$/NDF:8033394.3/39

All: 4102.800+/-0.445 $\chi^2$/NDF: 12616949.5/7




Right In: 1941.031+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 1019.326+/-367.365 $\chi^2$/NDF:35.6/21

Right Out: 2084.166+/-519.587 $\chi^2$/NDF: 14.5/17

Left In: 2387.199+/-371.407 $\chi^2$/NDF:12.6/20

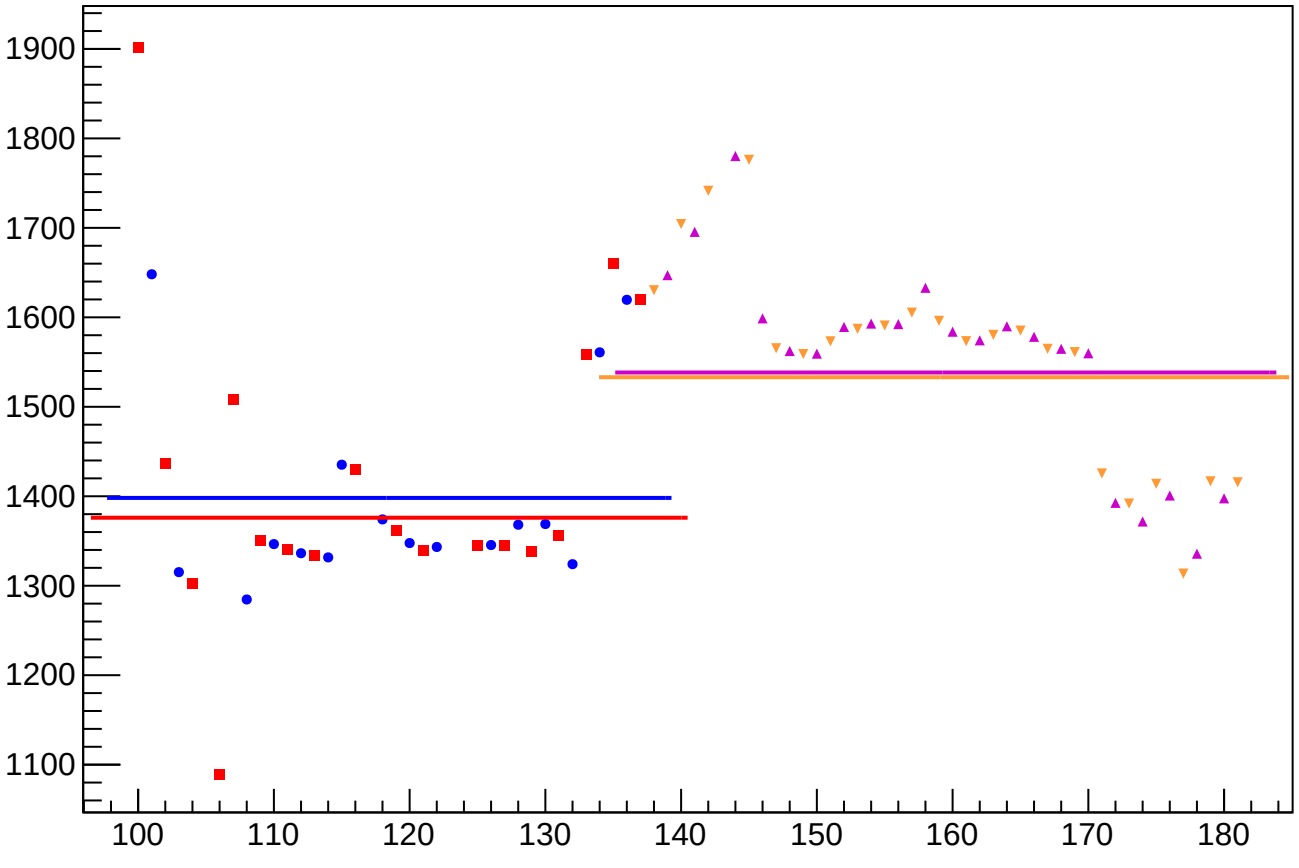
Left: 1695.779+/-261.184 $\chi^2$/NDF: 55.1/42

Right: 2012.954+/-368.315 $\chi^2$/NDF: 21.4/33

In: 2237.310+/-302.657 $\chi^2$/NDF:20.1/36

Out: 1374.224+/-299.963 $\chi^2$/NDF:52.9/39

All: 1801.908+/-213.052 $\chi^2$/NDF: 77.0/76




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1533.040+/-0.260 $\chi^2$/NDF:187660.0/21

Right Out: 1376.021+/-0.363 $\chi^2$/NDF: 114033.6/17

Left In: 1538.339+/-0.263 $\chi^2$/NDF:186650.3/20

Left: 1535.660+/-0.185 $\chi^2$/NDF: 374516.0/42

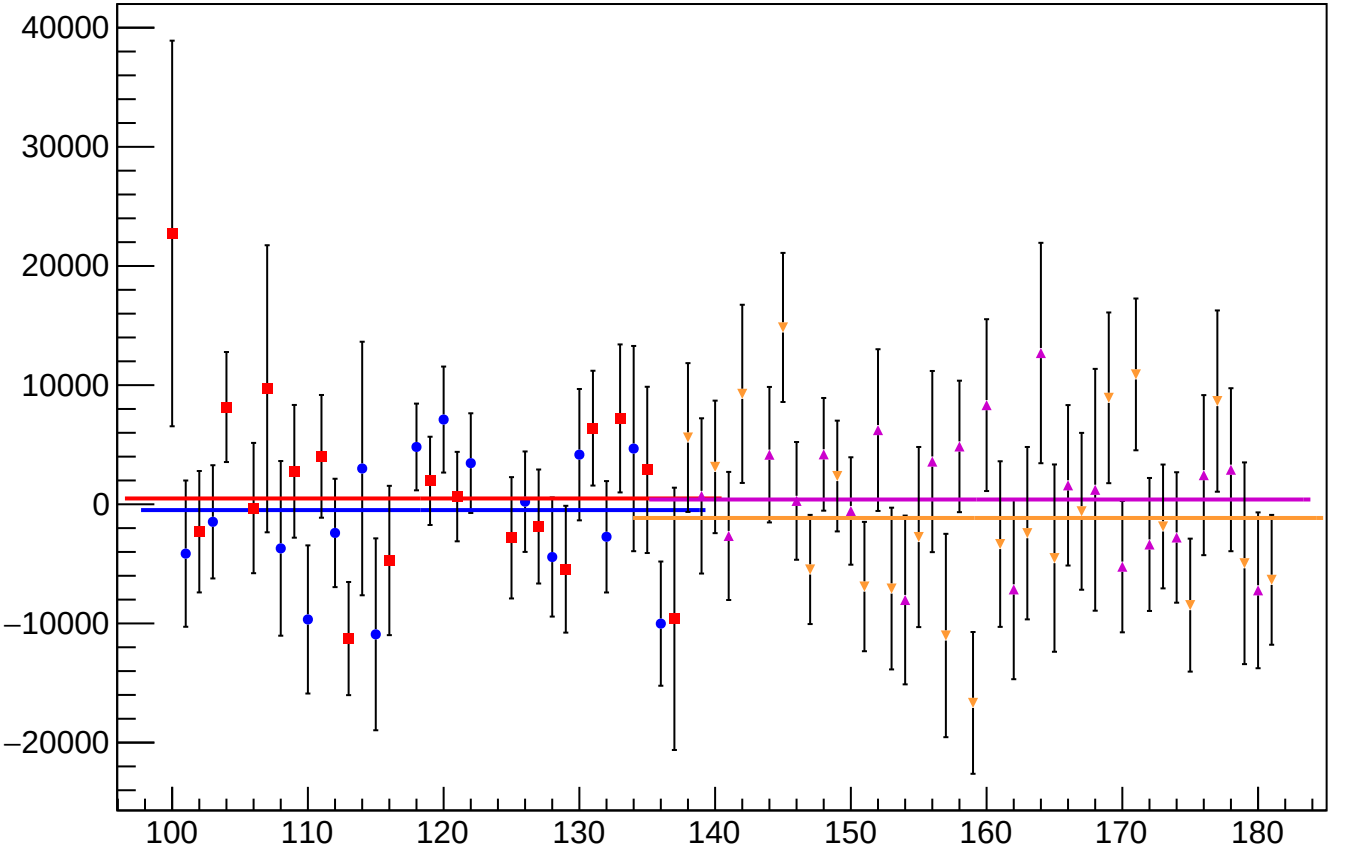
Right: 1386.888+/-0.259 $\chi^2$/NDF: 209787.8/33

In: 1491.246+/-0.214 $\chi^2$/NDF:376284.7/36

Out: 1479.770+/-0.211 $\chi^2$/NDF:425650.2/39

All: 1485.431+/-0.150 $\chi^2$/NDF: 803392.1/76

asym_usl_atl2_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -486.563+/-1294.930 $\chi^2$/NDF: 15.9/15

Left Out: -1148.154+/-1327.169 $\chi^2$/NDF:32.2/21

Right Out: 488.594+/-1261.315 $\chi^2$/NDF: 18.7/17

Left In: 401.412+/-1334.683 $\chi^2$/NDF:11.9/20

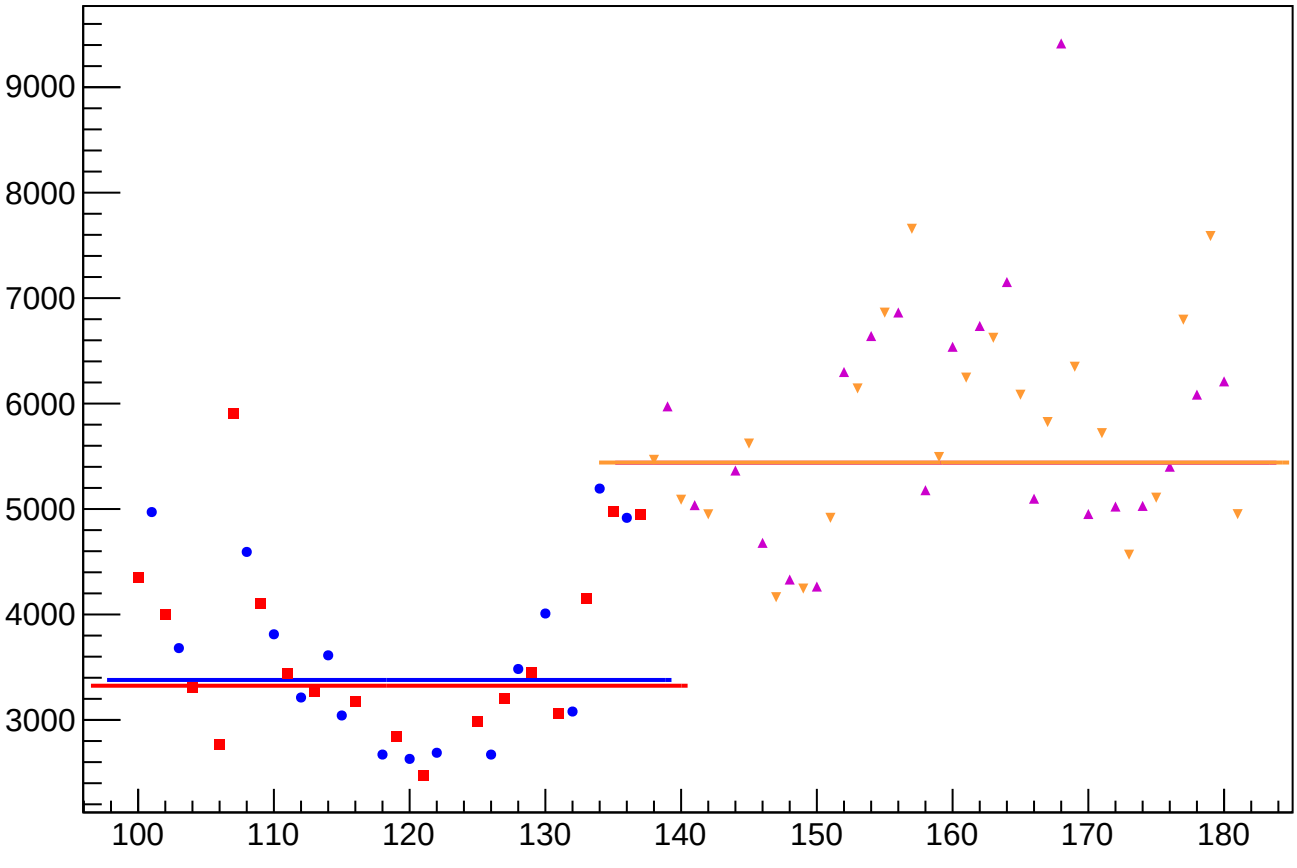
Left: -377.745+/-941.096 $\chi^2$/NDF: 44.7/42

Right: 13.837+/-903.535 $\chi^2$/NDF: 35.0/33

In: -55.996+/-929.390 $\chi^2$/NDF:28.0/36

Out: -288.166+/-914.279 $\chi^2$/NDF:51.7/39

All: -173.984+/-651.770 $\chi^2$/NDF: 79.8/76




Right In: 3379.110+/-0.916 $\chi^2$/NDF: 755339.9/15

Left Out: 5440.954+/-0.938 $\chi^2$/NDF:960397.8/21

Right Out: 3324.449+/-0.892 $\chi^2$/NDF: 543813.3/17

Left In: 5438.765+/-0.944 $\chi^2$/NDF:1052060.2/20

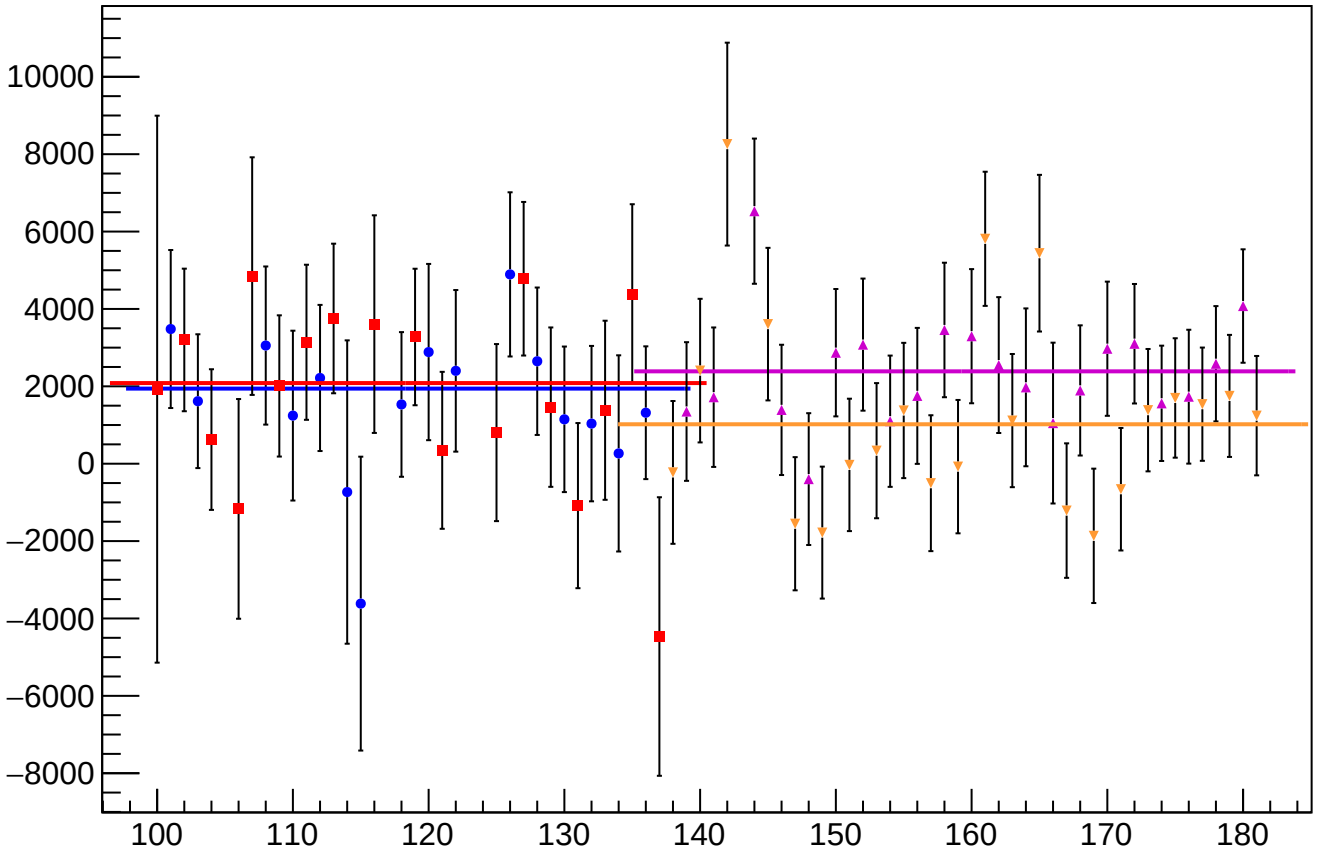
Left: 5439.866+/-0.665 $\chi^2$/NDF: 2012460.6/42

Right: 3351.061+/-0.639 $\chi^2$/NDF: 1300981.9/33

In: 4377.808+/-0.657 $\chi^2$/NDF:4260784.8/36

Out: 4328.890+/-0.646 $\chi^2$/NDF:4176765.0/39

All: 4352.948+/-0.461 $\chi^2$/NDF: 8440365.6/76




Right In: 1941.031+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 1019.326+/-367.365 $\chi^2$/NDF:35.6/21

Right Out: 2084.166+/-519.587 $\chi^2$/NDF: 14.5/17

Left In: 2387.199+/-371.407 $\chi^2$/NDF:12.6/20

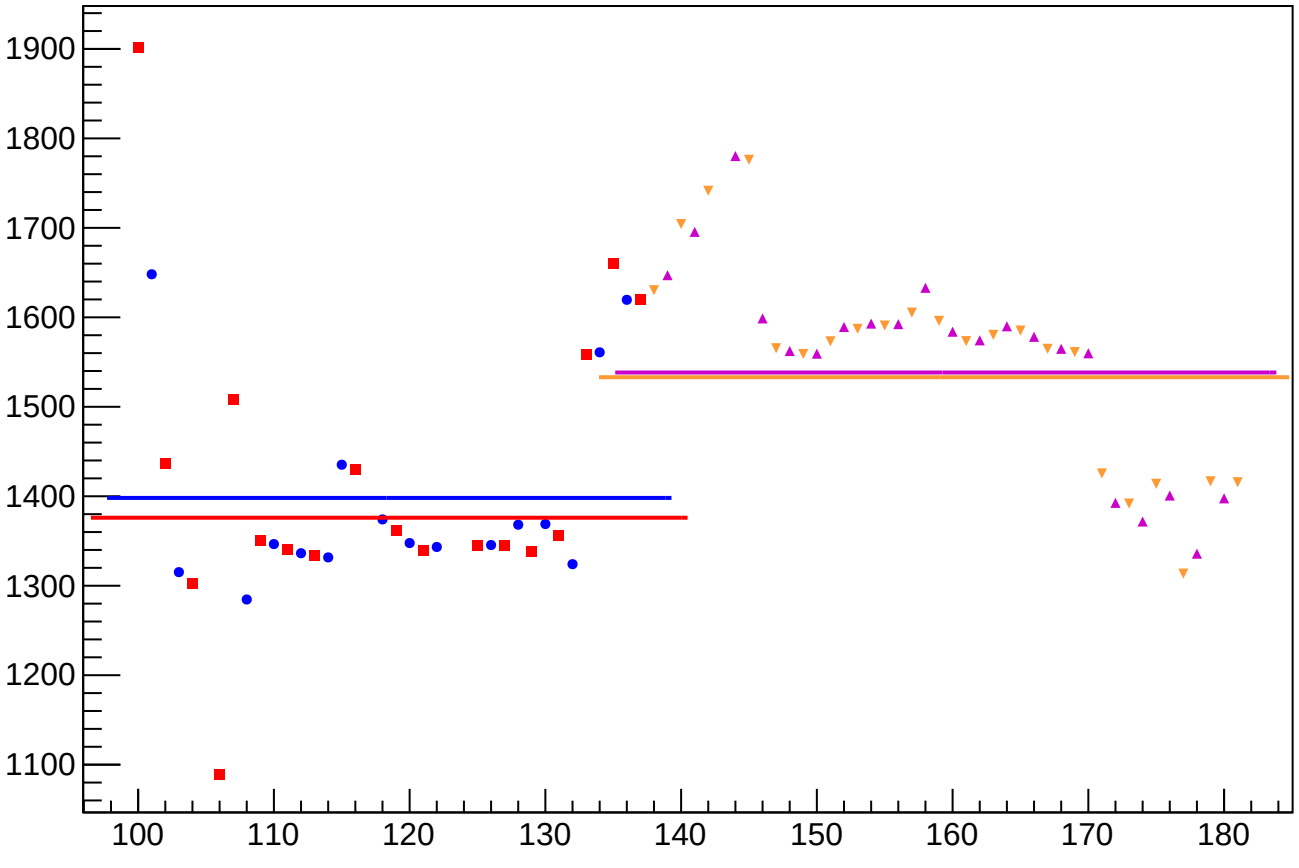
Left: 1695.779+/-261.184 $\chi^2$/NDF: 55.1/42

Right: 2012.954+/-368.315 $\chi^2$/NDF: 21.4/33

In: 2237.310+/-302.657 $\chi^2$/NDF:20.1/36

Out: 1374.224+/-299.963 $\chi^2$/NDF:52.9/39

All: 1801.908+/-213.052 $\chi^2$/NDF: 77.0/76




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1533.040+/-0.260 $\chi^2$/NDF:187660.0/21

Right Out: 1376.021+/-0.363 $\chi^2$/NDF: 114033.6/17

Left In: 1538.339+/-0.263 $\chi^2$/NDF:186650.3/20

Left: 1535.660+/-0.185 $\chi^2$/NDF: 374516.0/42

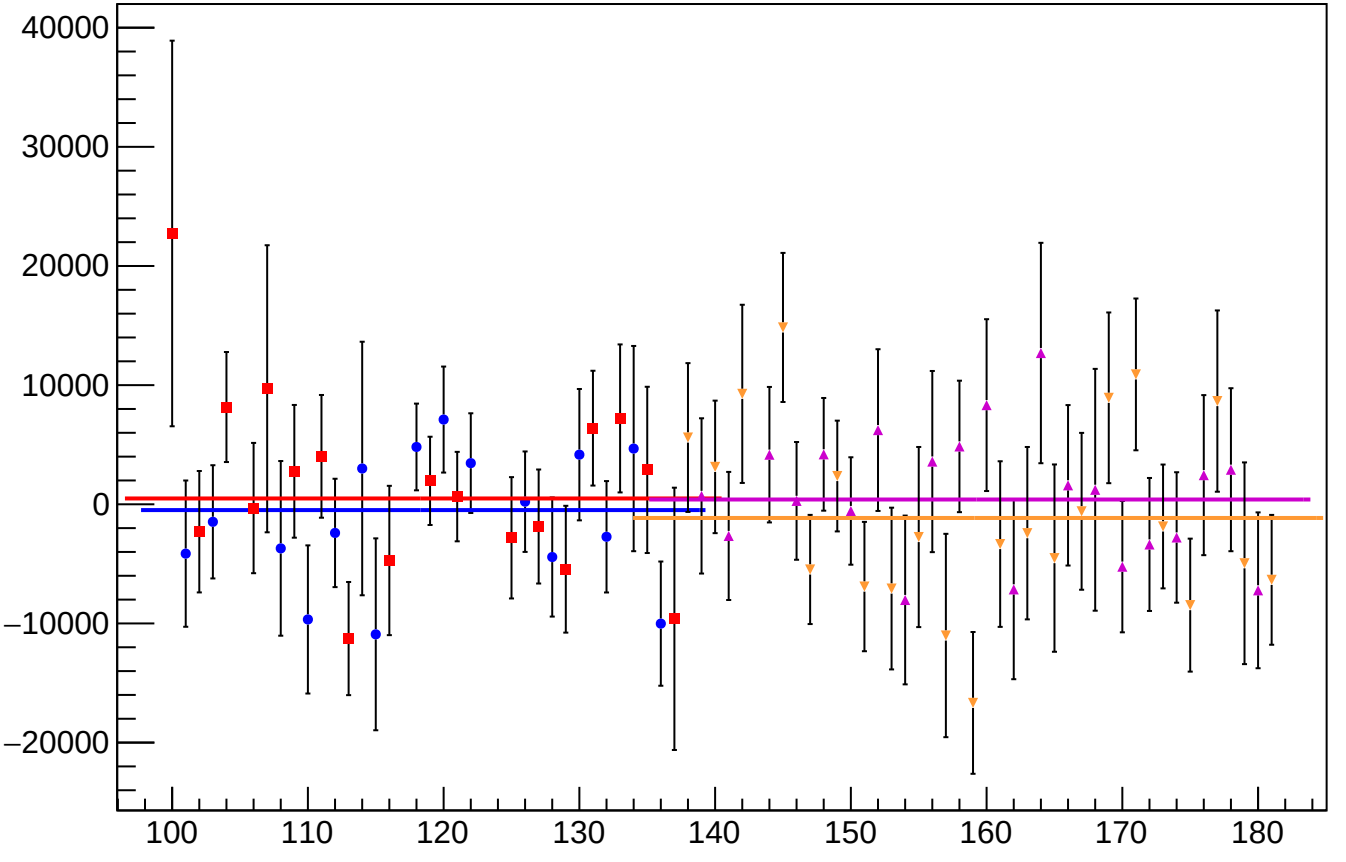
Right: 1386.888+/-0.259 $\chi^2$/NDF: 209787.8/33

In: 1491.246+/-0.214 $\chi^2$/NDF:376284.7/36

Out: 1479.770+/-0.211 $\chi^2$/NDF:425650.2/39

All: 1485.431+/-0.150 $\chi^2$/NDF: 803392.1/76

asym_usl_atl2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -486.563+/-1294.930 $\chi^2$/NDF: 15.9/15

Left Out: -1148.154+/-1327.169 $\chi^2$/NDF:32.2/21

Right Out: 488.594+/-1261.315 $\chi^2$/NDF: 18.7/17

Left In: 401.412+/-1334.683 $\chi^2$/NDF:11.9/20

Left: -377.745+/-941.096 $\chi^2$/NDF: 44.7/42

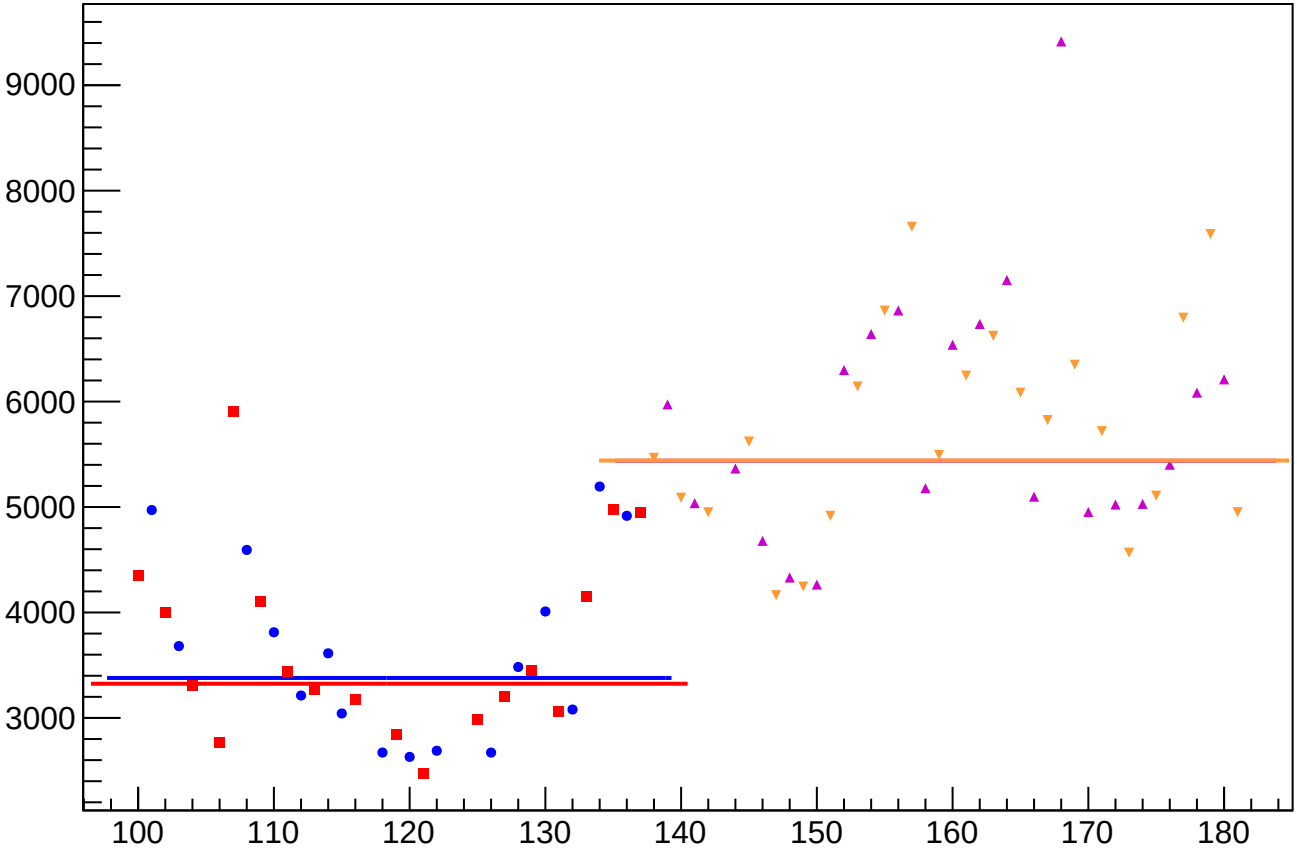
Right: 13.837+/-903.535 $\chi^2$/NDF: 35.0/33

In: -55.996+/-929.390 $\chi^2$/NDF:28.0/36

Out: -288.166+/-914.279 $\chi^2$/NDF:51.7/39

All: -173.984+/-651.770 $\chi^2$/NDF: 79.8/76

asym_usl_atl2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3379.110+/-0.916 $\chi^2$/NDF: 755339.9/15

Left Out: 5440.954+/-0.938 $\chi^2$/NDF:960397.8/21

Right Out: 3324.449+/-0.892 $\chi^2$/NDF: 543813.3/17

Left In: 5438.765+/-0.944 $\chi^2$/NDF:1052060.2/20

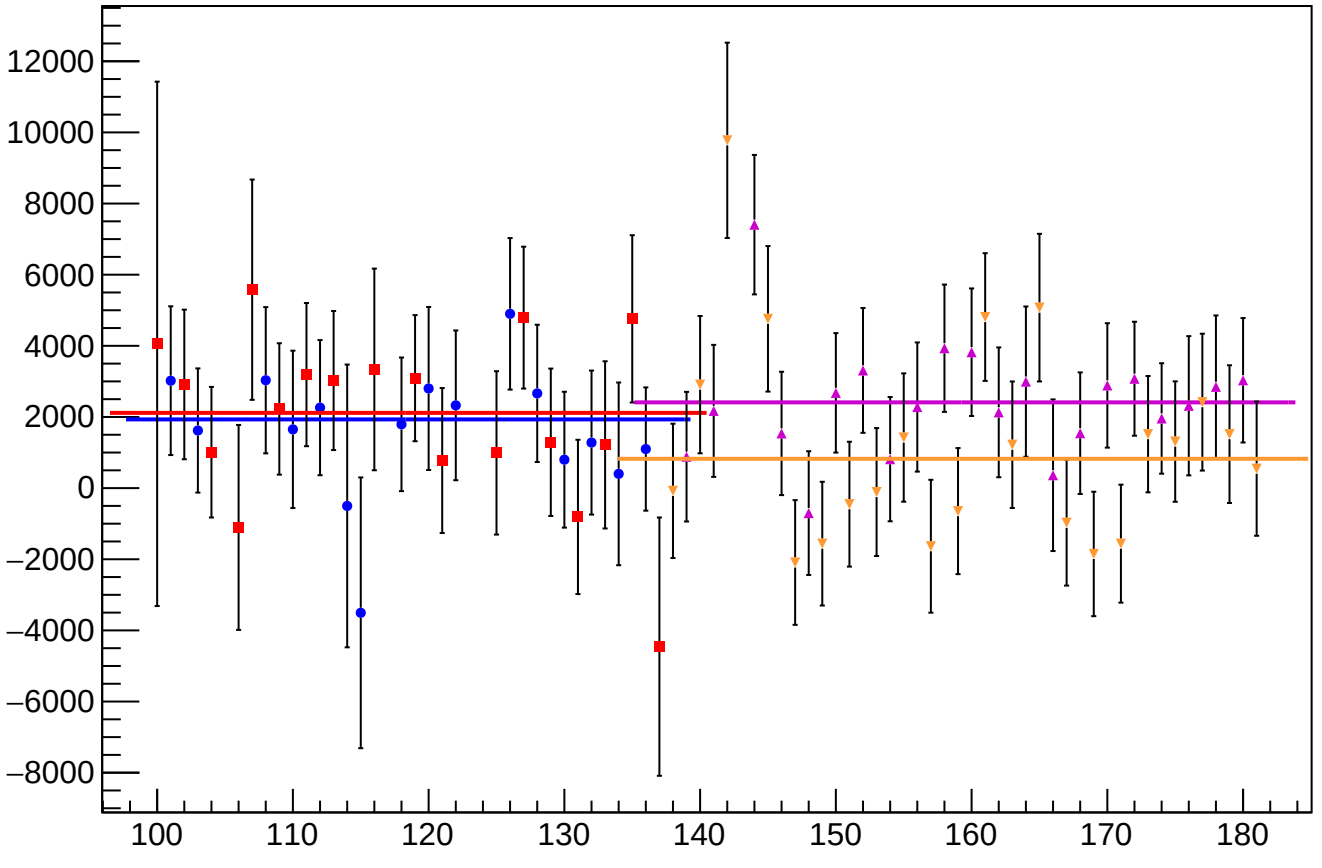
Left: 5439.866+/-0.665 $\chi^2$/NDF: 2012460.6/42

Right: 3351.061+/-0.639 $\chi^2$/NDF: 1300981.9/33

In: 4377.808+/-0.657 $\chi^2$/NDF:4260784.8/36

Out: 4328.890+/-0.646 $\chi^2$/NDF:4176765.0/39

All: 4352.948+/-0.461 $\chi^2$/NDF: 8440365.6/76




Right In: 1931.537+/-527.135 $\chi^2$/NDF: 6.4/15

Left Out: 824.244+/-391.208 $\chi^2$/NDF:39.4/21

Right Out: 2115.195+/-528.802 $\chi^2$/NDF: 13.2/17

Left In: 2410.712+/-392.118 $\chi^2$/NDF:14.9/20

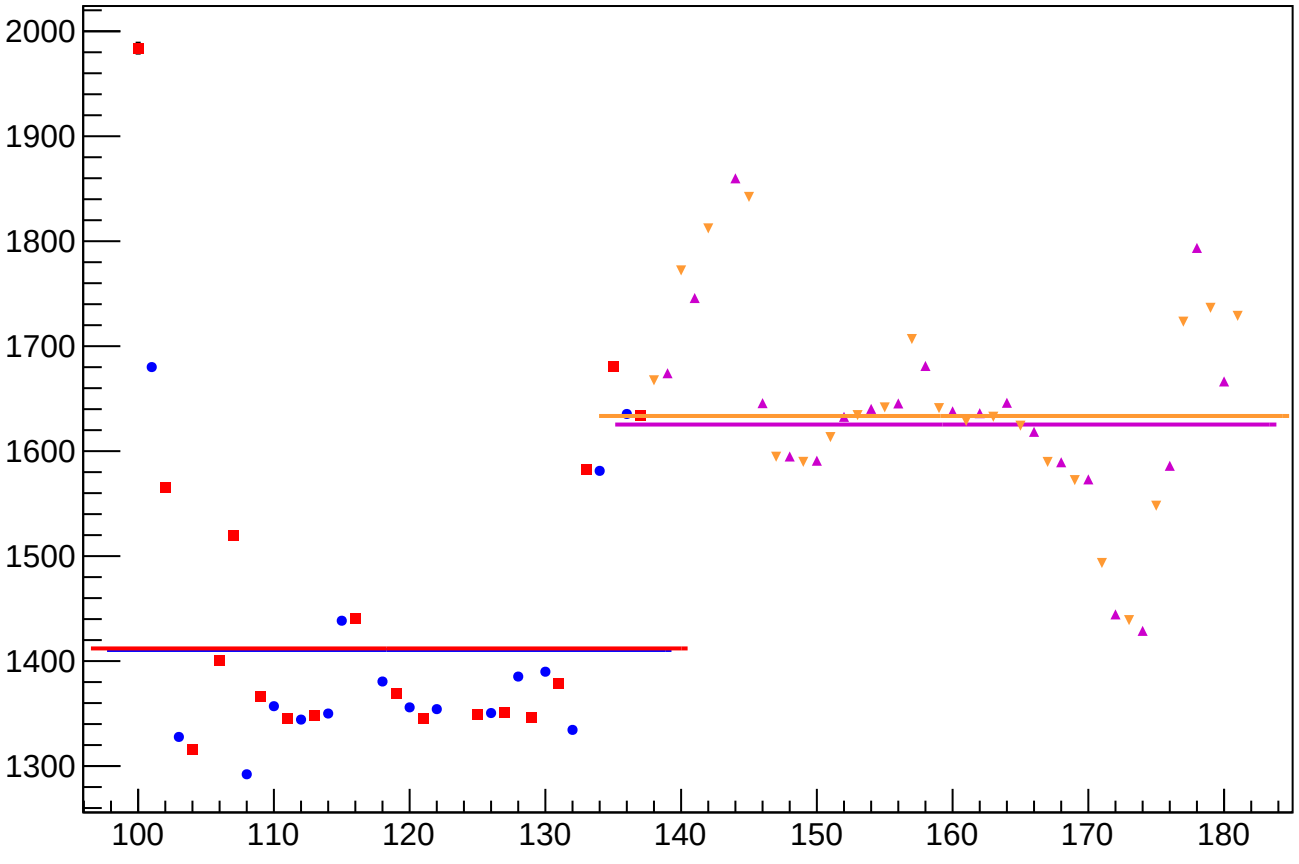
Left: 1615.633+/-276.947 $\chi^2$/NDF: 62.5/42

Right: 2023.076+/-373.329 $\chi^2$/NDF: 19.6/33

In: 2240.018+/-314.619 $\chi^2$/NDF:21.8/36

Out: 1280.871+/-314.499 $\chi^2$/NDF:56.5/39

All: 1760.263+/-222.427 $\chi^2$/NDF: 83.0/76




Right In: 1410.595+/-0.373 $\chi^2$/NDF: 99150.0/15

Left Out: 1633.506+/-0.277 $\chi^2$/NDF:112448.3/21

Right Out: 1412.048+/-0.373 $\chi^2$/NDF: 89704.5/17

Left In: 1625.343+/-0.277 $\chi^2$/NDF:119187.6/20

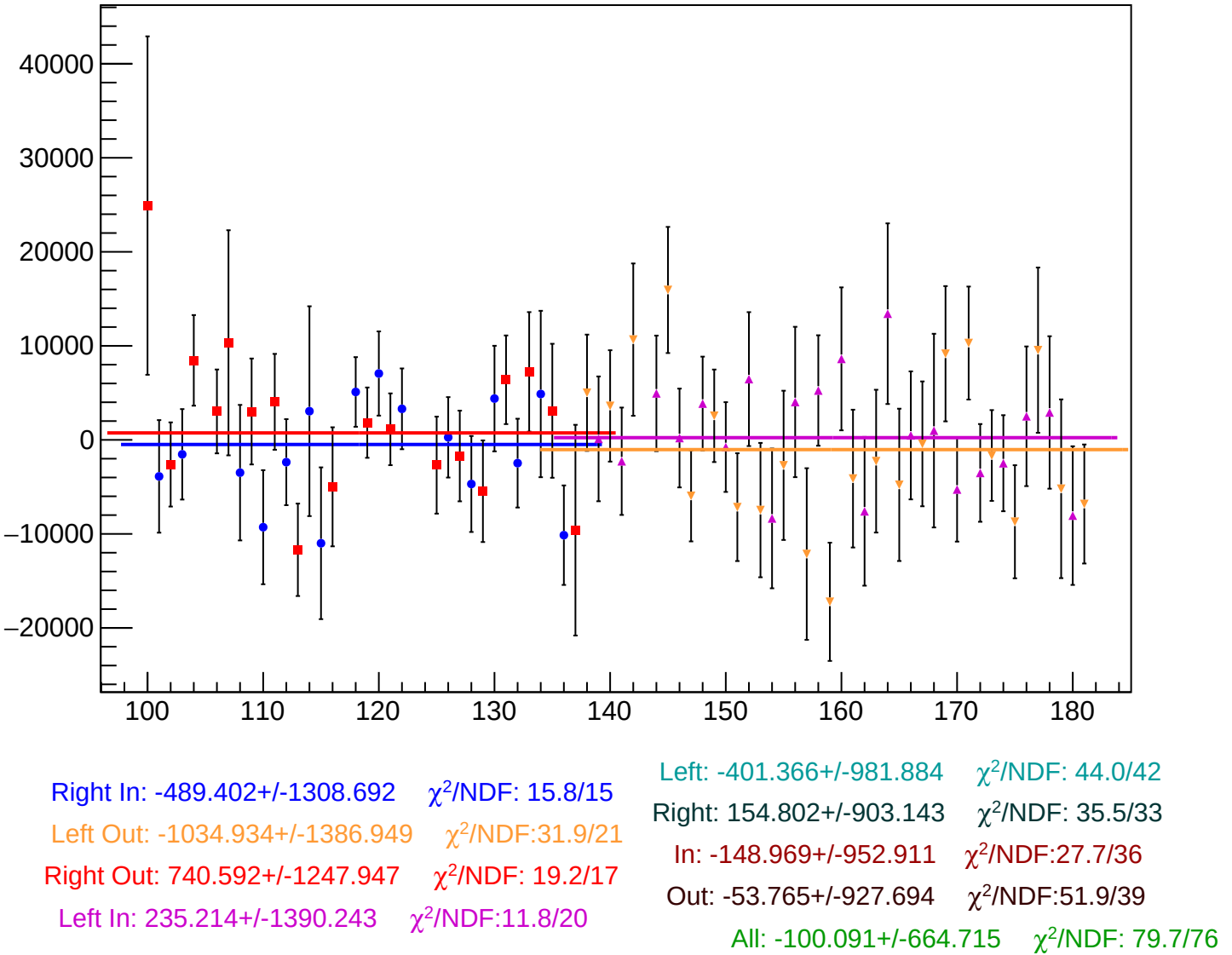
Left: 1629.434+/-0.196 $\chi^2$/NDF: 232070.2/42

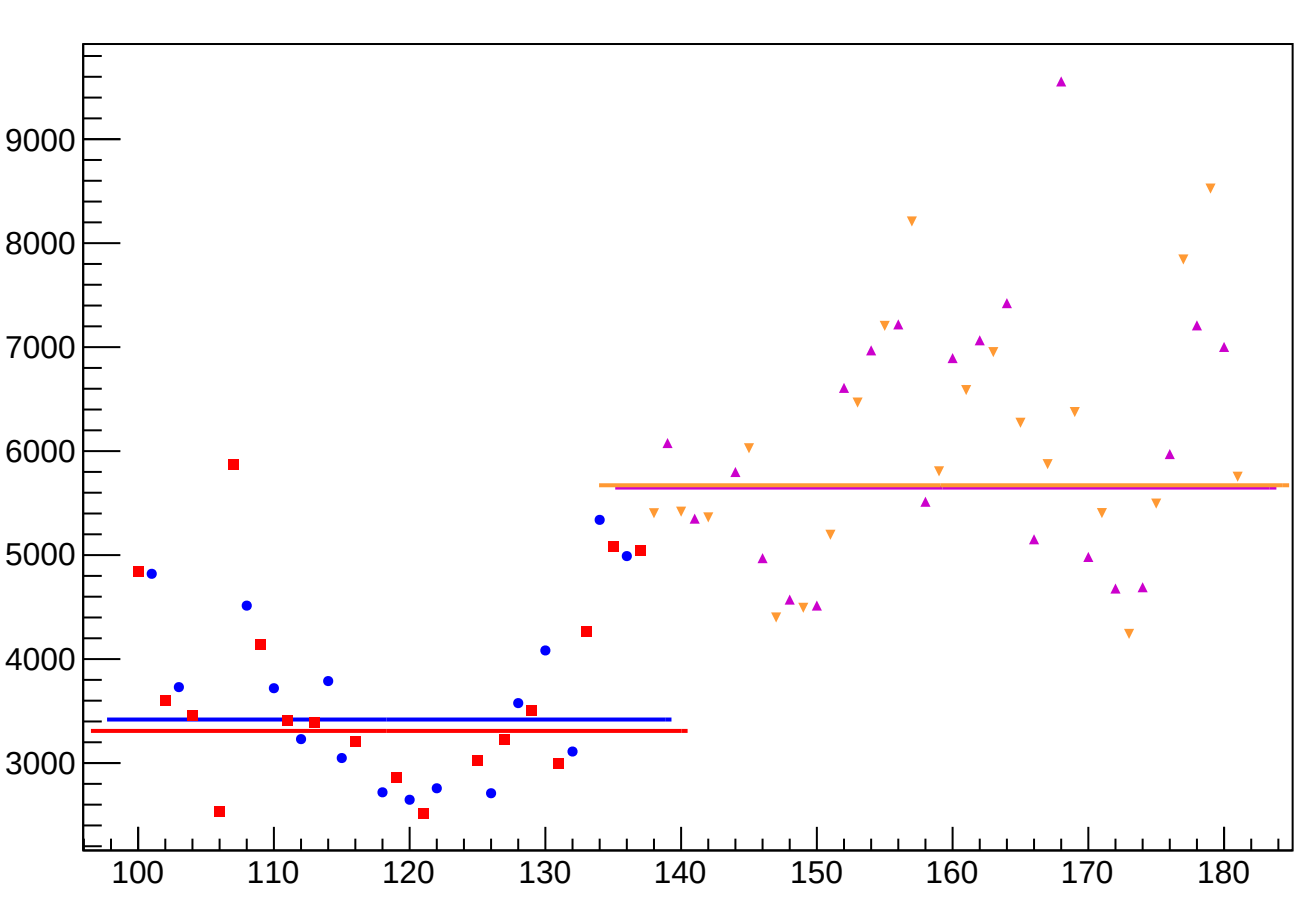
Right: 1411.321+/-0.264 $\chi^2$/NDF: 188862.1/33

In: 1548.844+/-0.222 $\chi^2$/NDF:432022.8/36

Out: 1554.902+/-0.222 $\chi^2$/NDF:429635.3/39

All: 1551.877+/-0.157 $\chi^2$/NDF: 862029.3/76


asym_usl_atl2_avg_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -489.402+/-1308.692 χ²/NDF: 15.8/15
Left Out: -1034.934+/-1386.949 χ²/NDF:31.9/21
Right Out: 740.592+/-1247.947 χ²/NDF: 19.2/17
Left In: 235.214+/-1390.243 χ²/NDF:11.8/20
Left: -401.366+/-981.884 χ²/NDF: 44.0/42
Right: 154.802+/-903.143 χ²/NDF: 35.5/33
In: -148.969+/-952.911 χ²/NDF:27.7/36
Out: -53.765+/-927.694 χ²/NDF:51.9/39
All: -100.091+/-664.715 χ²/NDF: 79.7/76




Right In: 3418.701+/-0.925 $\chi^2$/NDF: 721215.3/15

Left Out: 5671.605+/-0.981 $\chi^2$/NDF:1141347.8/21

Right Out: 3309.112+/-0.882 $\chi^2$/NDF: 571940.6/17

Left In: 5649.258+/-0.983 $\chi^2$/NDF:1230711.7/20

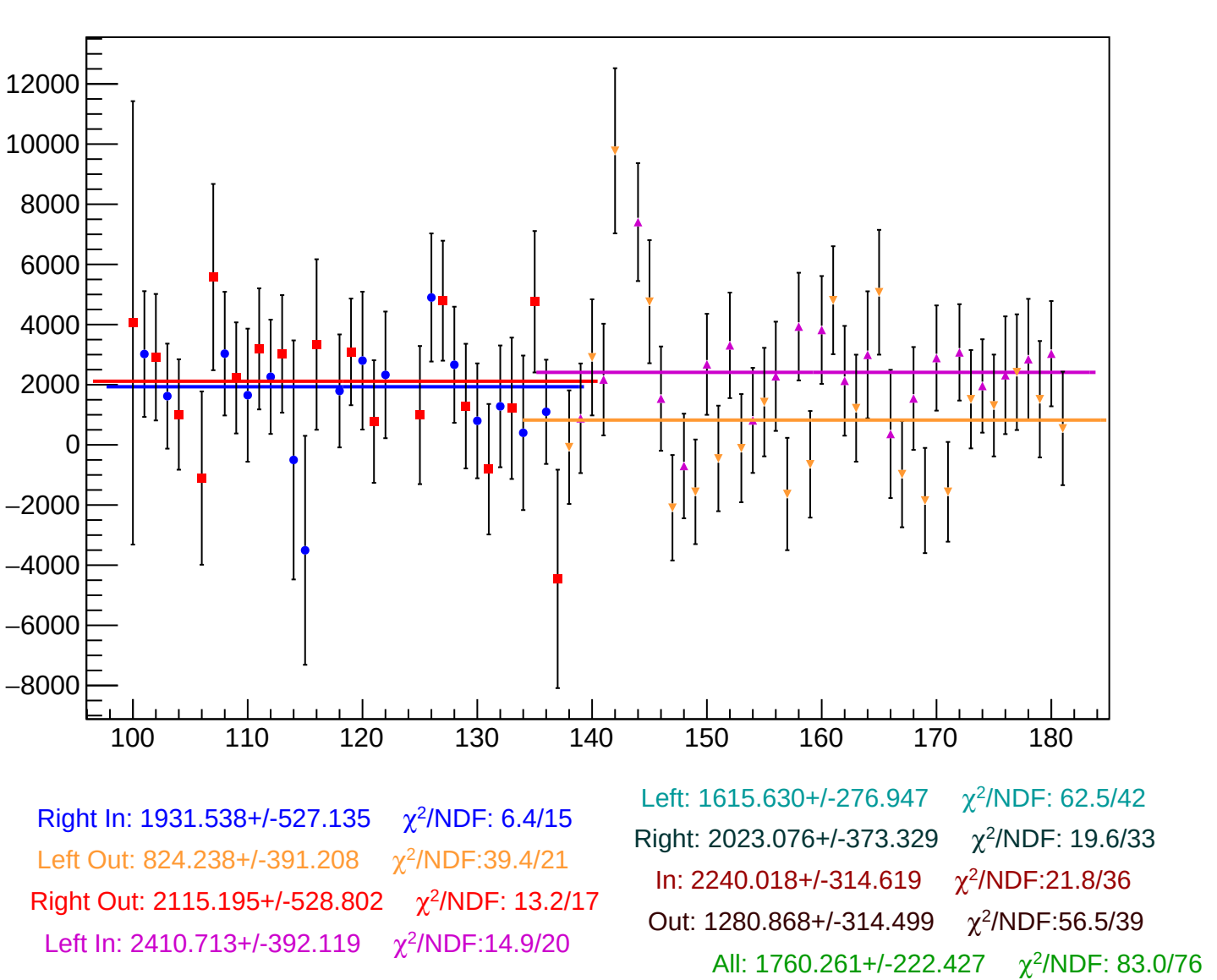
Left: 5660.458+/-0.694 $\chi^2$/NDF: 2372318.5/42

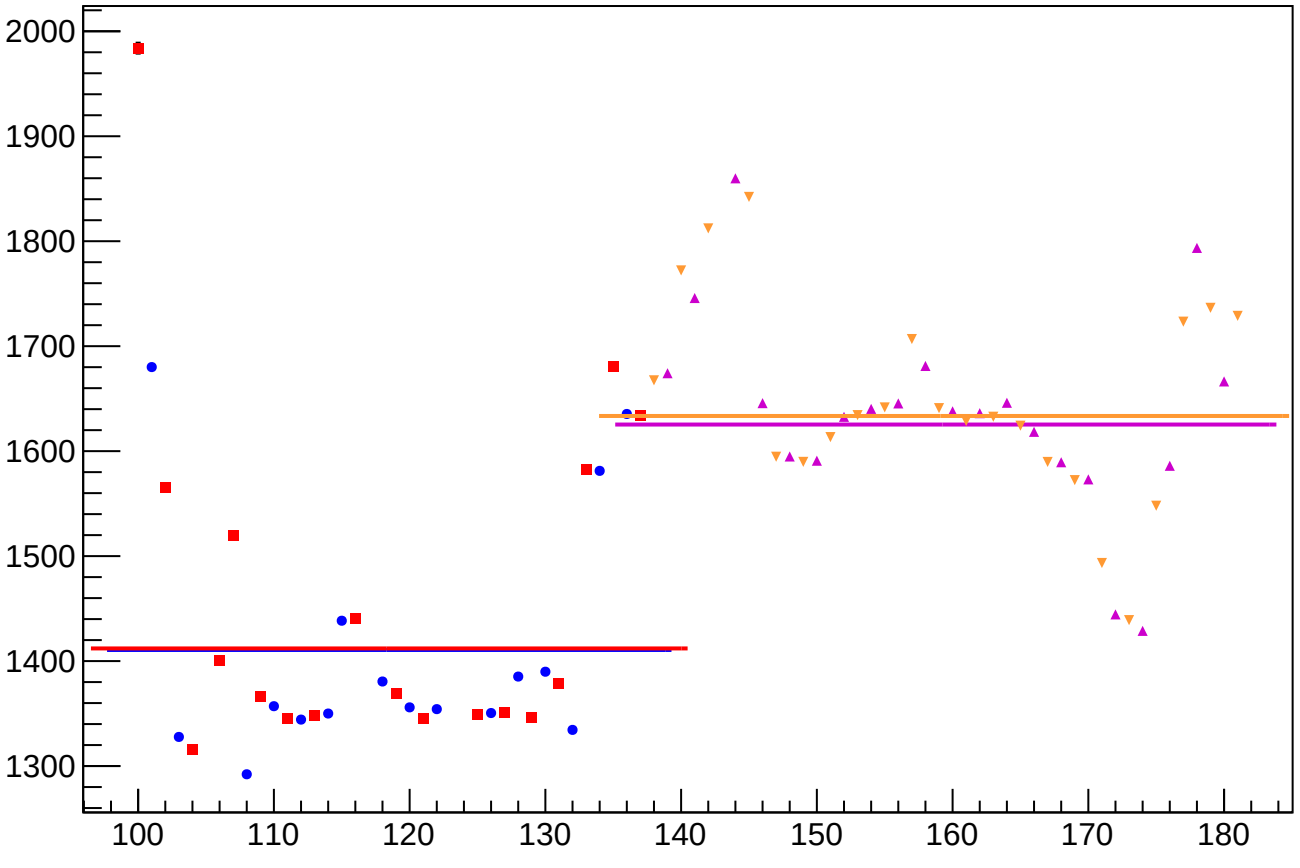
Right: 3361.304+/-0.639 $\chi^2$/NDF: 1300501.2/33

In: 4466.642+/-0.674 $\chi^2$/NDF:4681567.9/36

Out: 4366.073+/-0.656 $\chi^2$/NDF:4920052.2/39

All: 4415.009+/-0.470 $\chi^2$/NDF: 9613057.0/76


eigen_dit_asym_usl_atl2_avg_mean vs Slug, Sign Corrected
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
100
110
120
130
140
150
160
170
180
Right In: 1931.538+/-527.135 χ²/NDF: 6.4/15
Left Out: 824.238+/-391.208 χ²/NDF:39.4/21
Right Out: 2115.195+/-528.802 χ²/NDF: 13.2/17
Left In: 2410.713+/-392.119 χ²/NDF:14.9/20
Left: 1615.630+/-276.947 χ²/NDF: 62.5/42
Right: 2023.076+/-373.329 χ²/NDF: 19.6/33
In: 2240.018+/-314.619 χ²/NDF:21.8/36
Out: 1280.868+/-314.499 χ²/NDF:56.5/39
All: 1760.261+/-222.427 χ²/NDF: 83.0/76




Right In: 1410.595+/-0.373 $\chi^2$/NDF: 99150.0/15

Left Out: 1633.507+/-0.277 $\chi^2$/NDF:112453.7/21

Right Out: 1412.048+/-0.373 $\chi^2$/NDF: 89704.6/17

Left In: 1625.344+/-0.277 $\chi^2$/NDF:119192.6/20

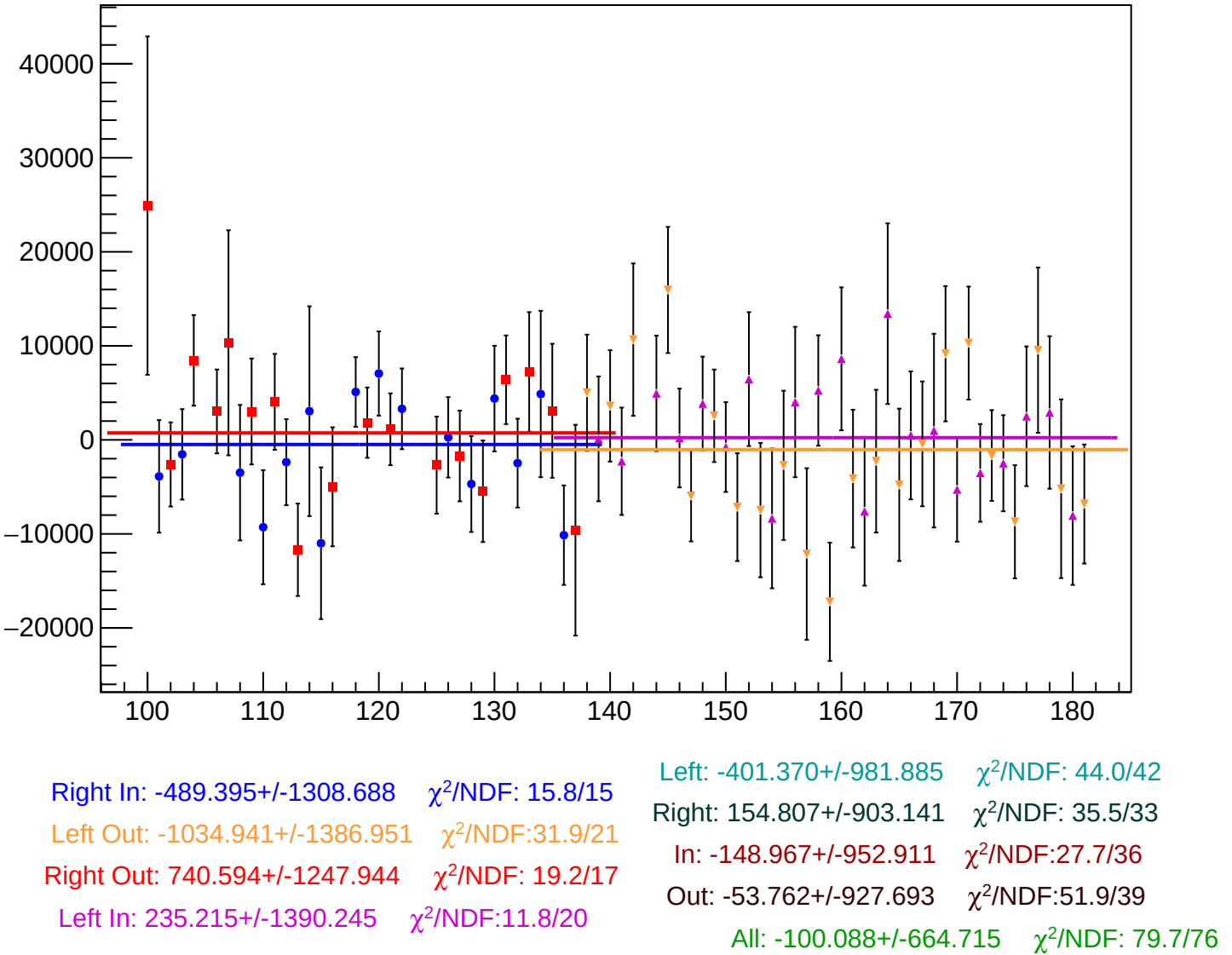
Left: 1629.435+/-0.196 $\chi^2$/NDF: 232080.7/42

Right: 1411.321+/-0.264 $\chi^2$/NDF: 188862.2/33

In: 1548.845+/-0.222 $\chi^2$/NDF:432029.9/36

Out: 1554.903+/-0.222 $\chi^2$/NDF:429643.5/39

All: 1551.878+/-0.157 $\chi^2$/NDF: 862044.6/76


asym_usl_atl2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
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−10000
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110
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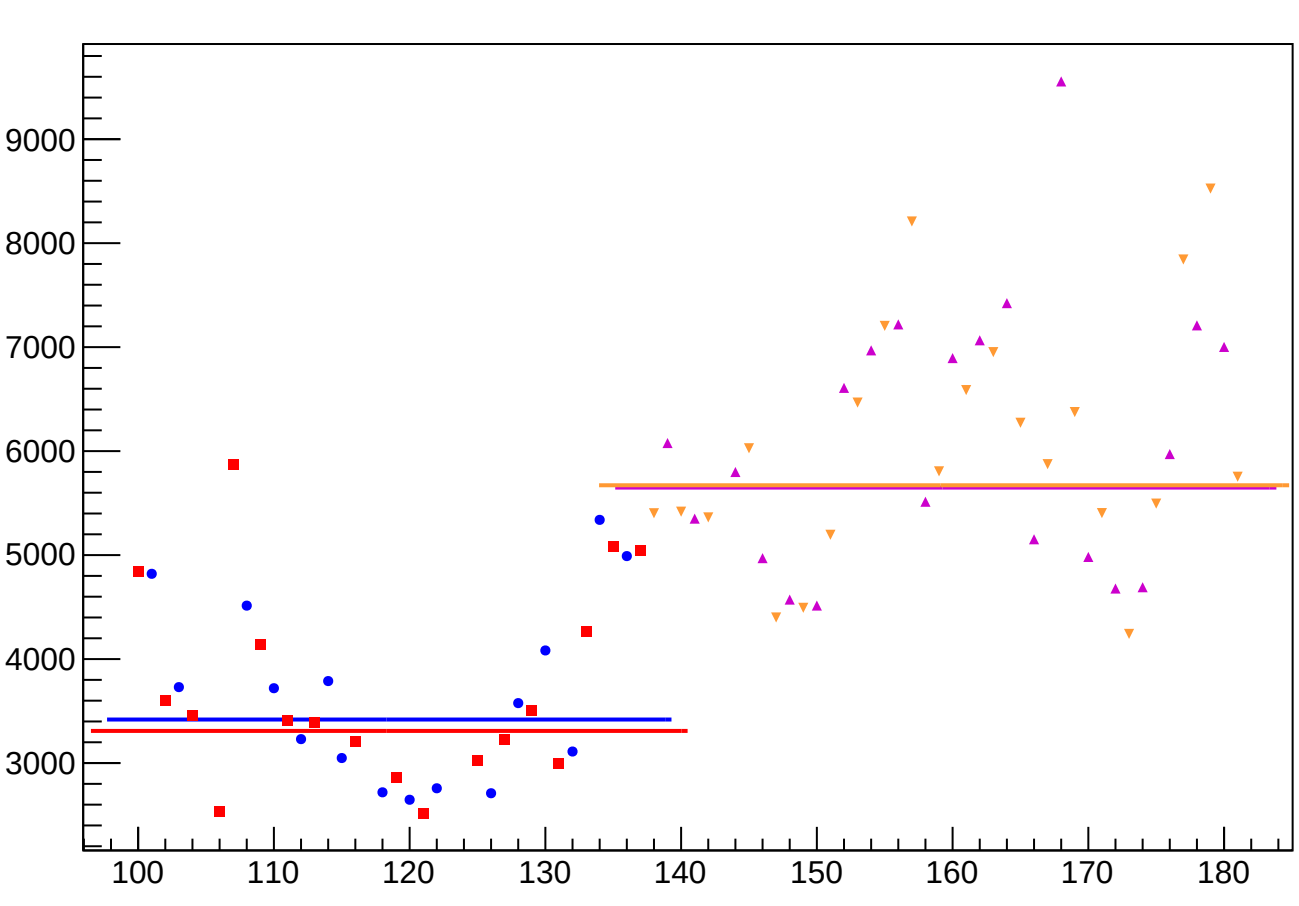
170
180
Right In: -489.395+/-1308.688 χ²/NDF: 15.8/15
Left Out: -1034.941+/-1386.951 χ²/NDF:31.9/21
Right Out: 740.594+/-1247.944 χ²/NDF: 19.2/17
Left In: 235.215+/-1390.245 χ²/NDF:11.8/20
Left: -401.370+/-981.885 χ²/NDF: 44.0/42
Right: 154.807+/-903.141 χ²/NDF: 35.5/33
In: -148.967+/-952.911 χ²/NDF:27.7/36
Out: -53.762+/-927.693 χ²/NDF:51.9/39
All: -100.088+/-664.715 χ²/NDF: 79.7/76




Right In: 3418.690+/-0.925 $\chi^2$/NDF: 721223.9/15

Left Out: 5671.614+/-0.981 $\chi^2$/NDF:1141348.6/21

Right Out: 3309.102+/-0.882 $\chi^2$/NDF: 571944.5/17

Left In: 5649.266+/-0.983 $\chi^2$/NDF:1230713.0/20

Left: 5660.467+/-0.694 $\chi^2$/NDF: 2372320.6/42

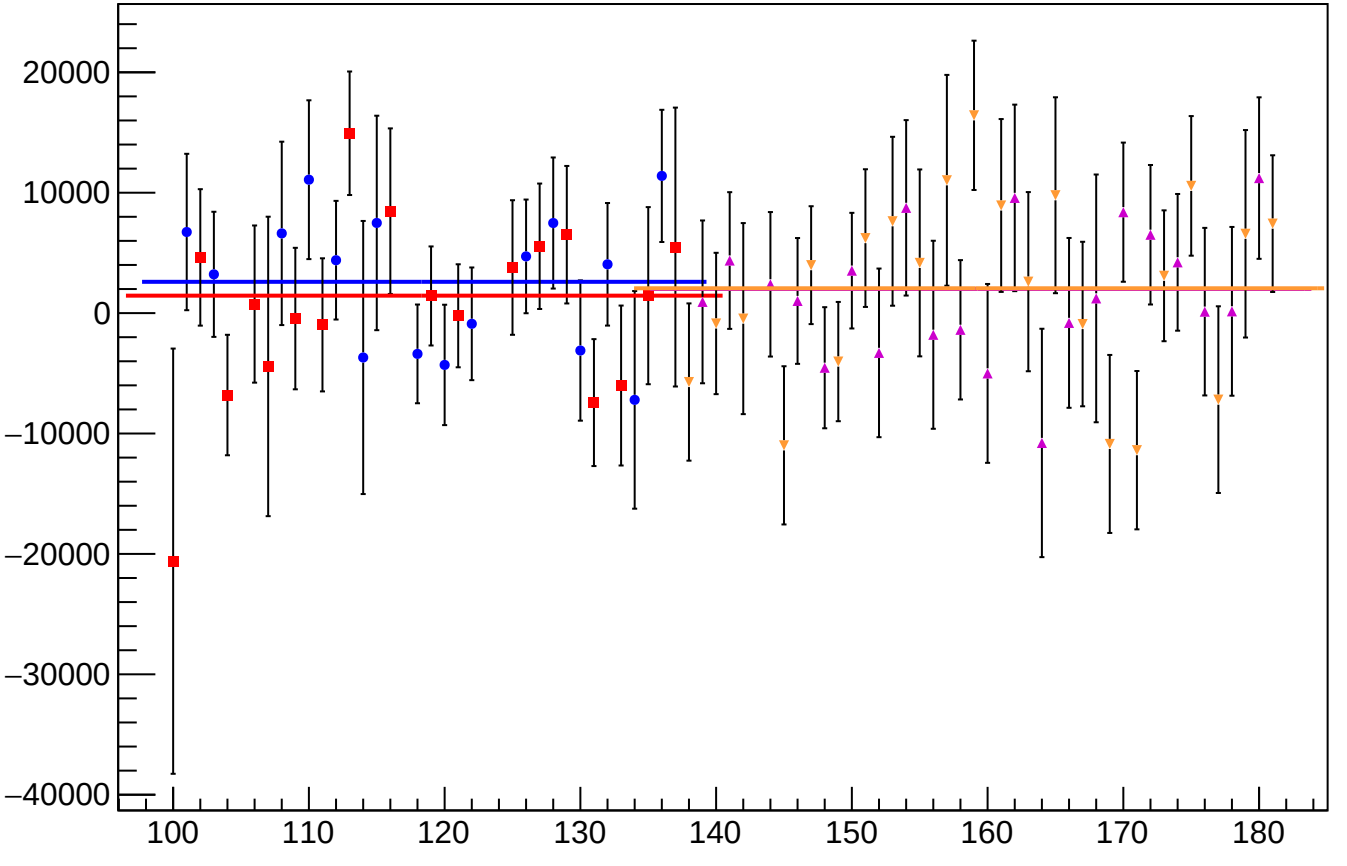
Right: 3361.294+/-0.639 $\chi^2$/NDF: 1300513.6/33

In: 4466.635+/-0.674 $\chi^2$/NDF:4681629.5/36

Out: 4366.067+/-0.656 $\chi^2$/NDF:4920111.0/39

All: 4415.002+/-0.470 $\chi^2$/NDF: 9613177.4/76

# asym_usl_atl2_avg_mean vs Slug, Sign Corrected




Right In: 2599.622+/-1414.499 $\chi^2$/NDF: 13.5/15

Left Out: 2061.571+/-1385.772 $\chi^2$/NDF:29.1/21

Right Out: 1450.418+/-1382.818 $\chi^2$/NDF: 19.0/17

Left In: 2007.724+/-1393.258 $\chi^2$/NDF:11.9/20

Left: 2034.793+/-982.525 $\chi^2$/NDF: 40.9/42

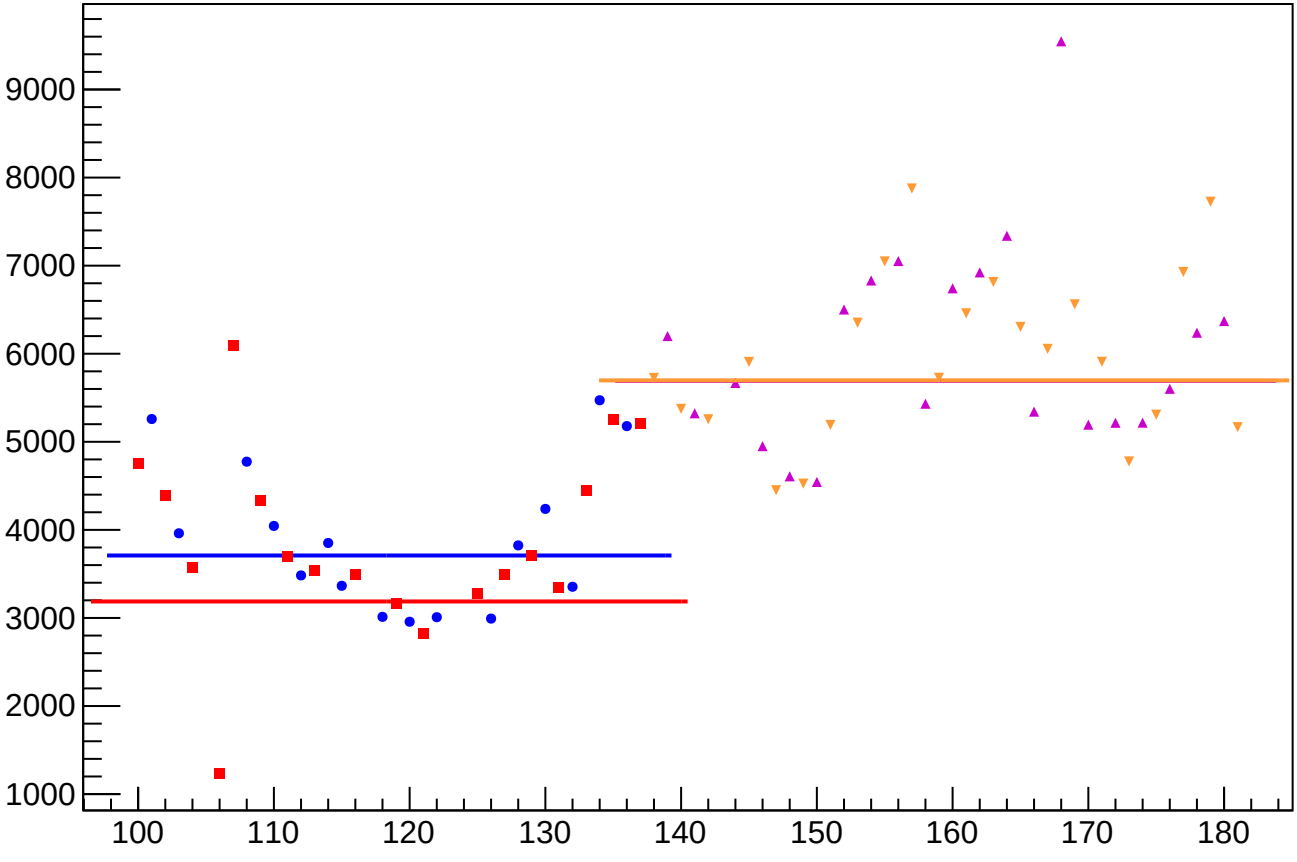
Right: 2012.006+/-988.811 $\chi^2$/NDF: 32.9/33

In: 2299.196+/-992.607 $\chi^2$/NDF:25.4/36

Out: 1755.342+/-978.843 $\chi^2$/NDF:48.2/39

All: 2023.472+/-696.962 $\chi^2$/NDF: 73.8/76

# asym_usl_atl2_avg_rms vs Slug, Sign Corrected




Right In: 3709.155+/-1.000 $\chi^2$/NDF: 610637.3/15

Left Out: 5697.020+/-0.980 $\chi^2$/NDF:832513.1/21

Right Out: 3187.191+/-0.896 $\chi^2$/NDF: 1610818.1/17

Left In: 5691.360+/-0.985 $\chi^2$/NDF:919562.5/20

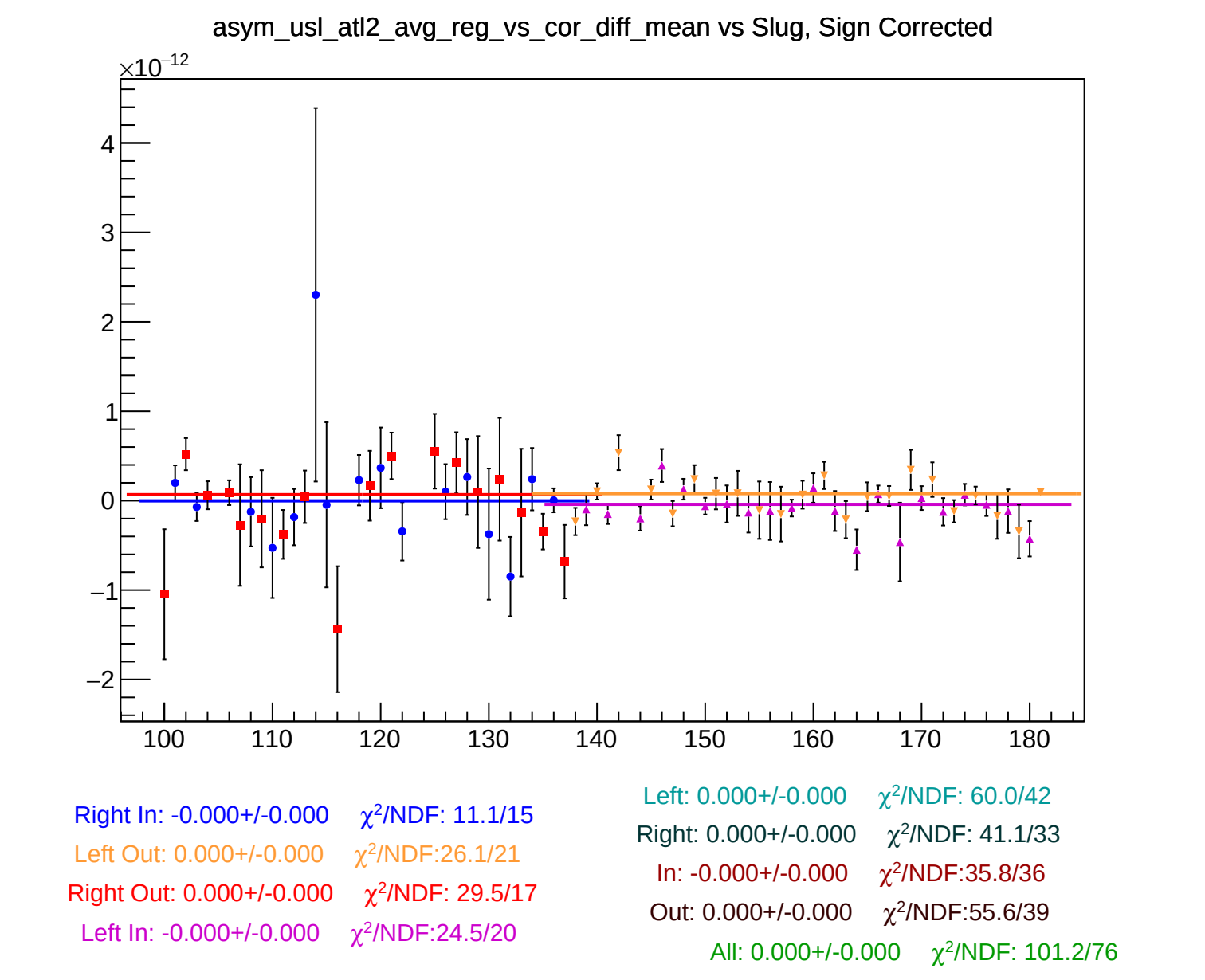
Left: 5694.205+/-0.695 $\chi^2$/NDF: 1752092.3/42

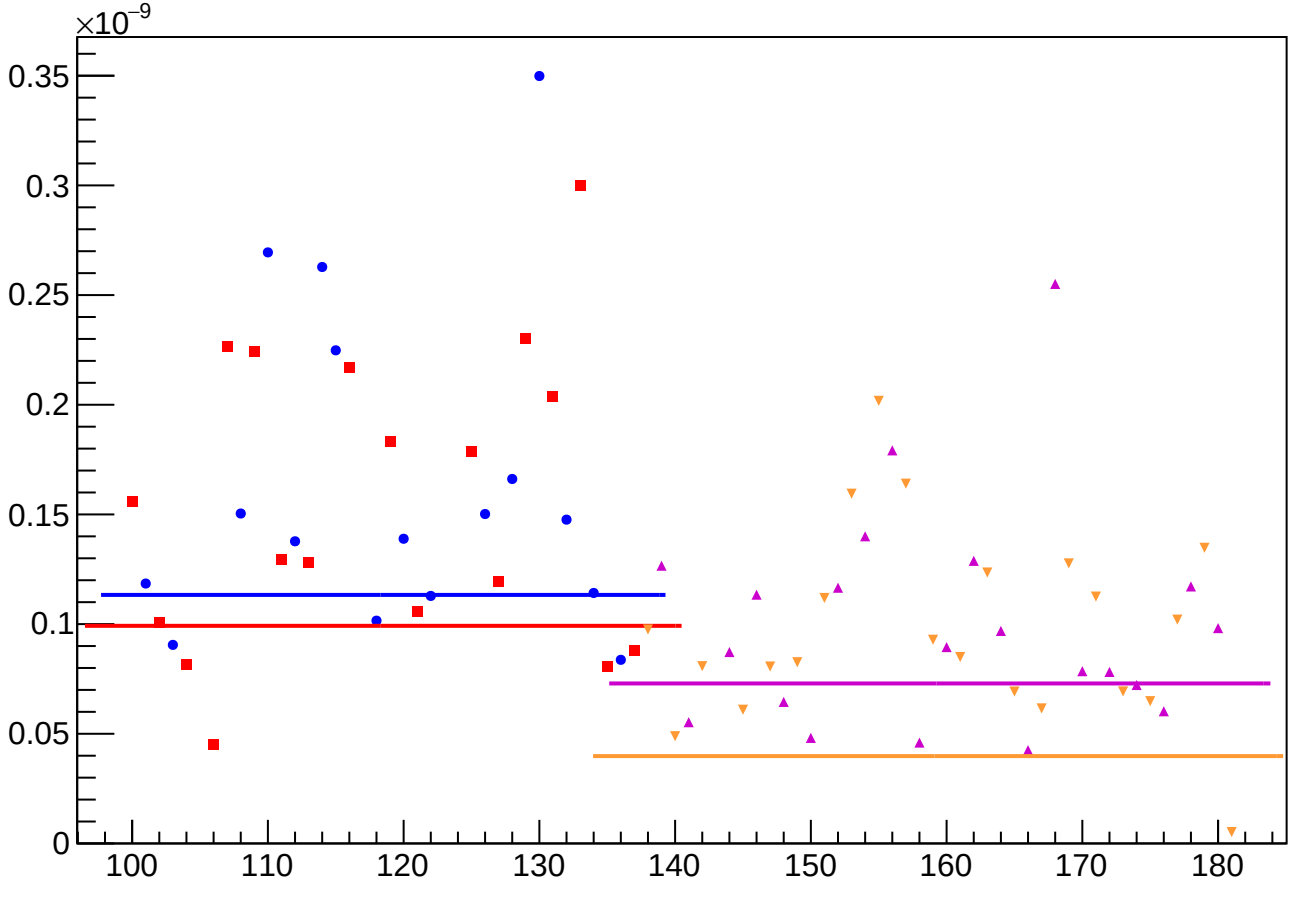
Right: 3419.452+/-0.667 $\chi^2$/NDF: 2372609.3/33

In: 4715.250+/-0.702 $\chi^2$/NDF:3523693.3/36

Out: 4329.488+/-0.661 $\chi^2$/NDF:6017932.0/39

All: 4510.828+/-0.481 $\chi^2$/NDF: 9701700.3/76


asym_usl_atl2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 11.1/15
Left Out: 0.000+/-0.000 χ²/NDF:26.1/21
Right Out: 0.000+/-0.000 χ²/NDF: 29.5/17
Left In: -0.000+/-0.000 χ²/NDF:24.5/20
Left: 0.000+/-0.000 χ²/NDF: 60.0/42
Right: 0.000+/-0.000 χ²/NDF: 41.1/33
In: -0.000+/-0.000 χ²/NDF:35.8/36
Out: 0.000+/-0.000 χ²/NDF:55.6/39
All: 0.000+/-0.000 χ²/NDF: 101.2/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 655766.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6945861.2/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1100854.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1987672.5/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 10393974.8/42

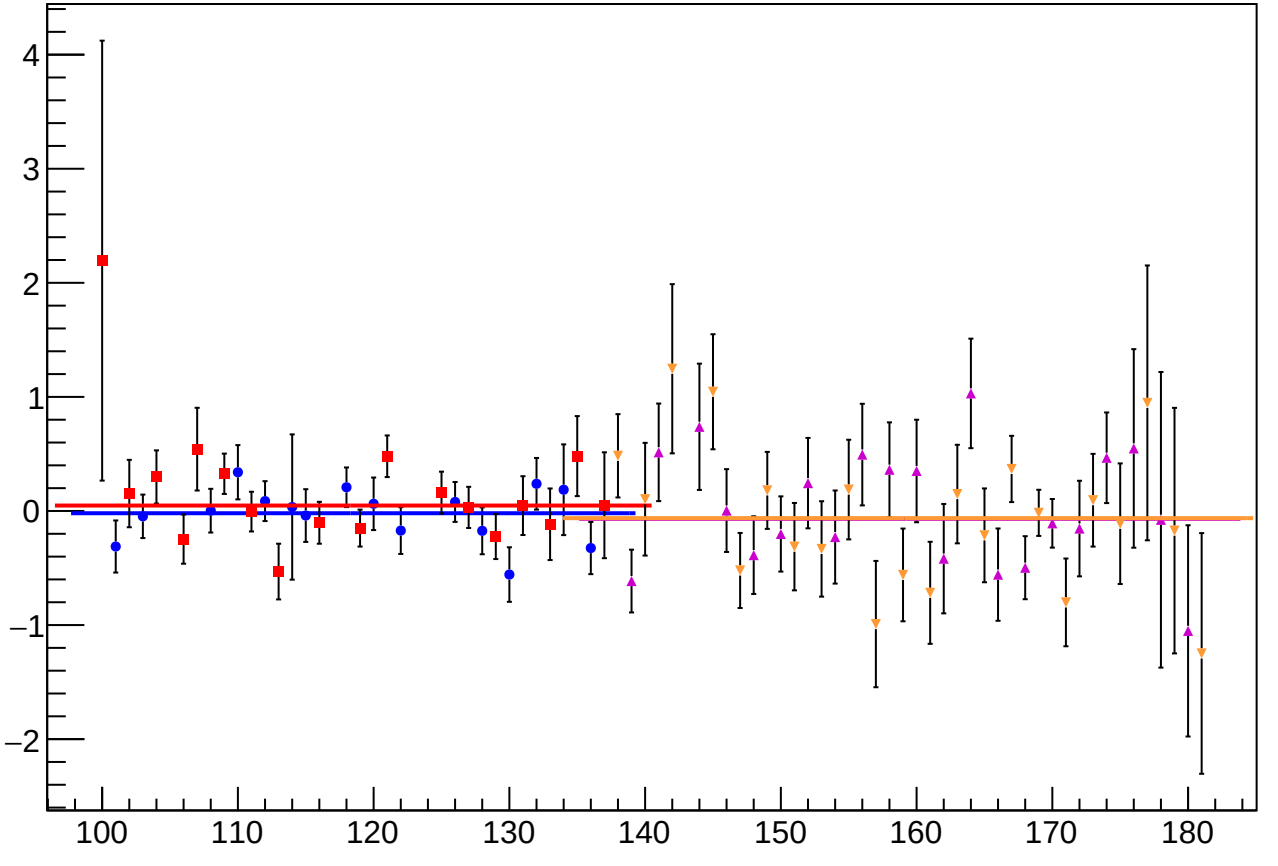
Right: 0.000+/-0.000 $\chi^2$/NDF: 1799459.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:3191499.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:9508048.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 14446974.8/76

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.054 $\chi^2$/NDF: 16.0/15

Left Out: -0.063+/-0.086 $\chi^2$/NDF:28.8/21

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.069+/-0.084 $\chi^2$/NDF:26.5/20

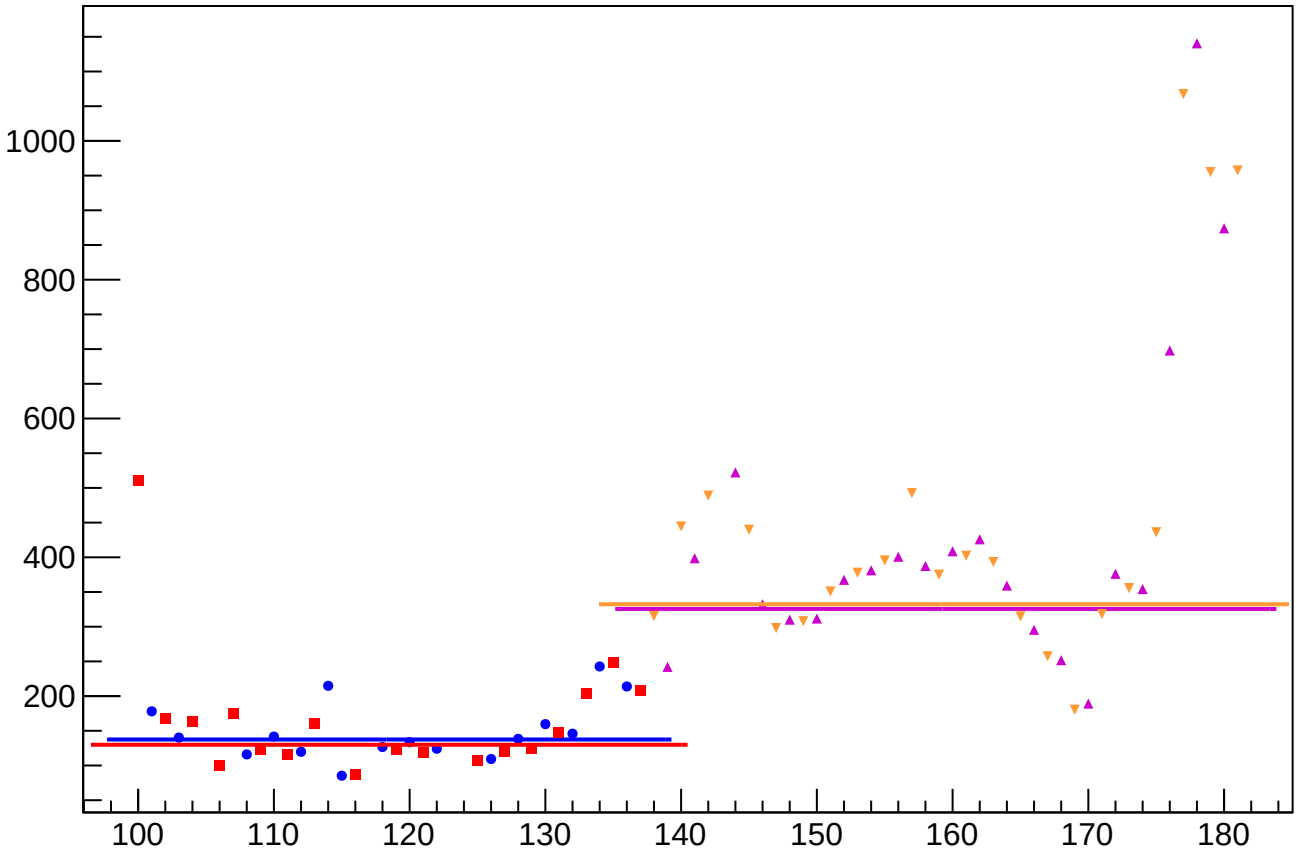
Left: -0.066+/-0.060 $\chi^2$/NDF: 55.3/42

Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.034+/-0.046 $\chi^2$/NDF:42.7/36

Out: 0.018+/-0.045 $\chi^2$/NDF:56.3/39

All: -0.008+/-0.032 $\chi^2$/NDF: 99.7/76




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692947.9/15

Left Out: 332.334+/-0.061 $\chi^2$/NDF:4136217.3/21

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833983.9/17

Left In: 325.622+/-0.060 $\chi^2$/NDF:3700608.9/20

Left: 328.896+/-0.043 $\chi^2$/NDF: 7843005.3/42

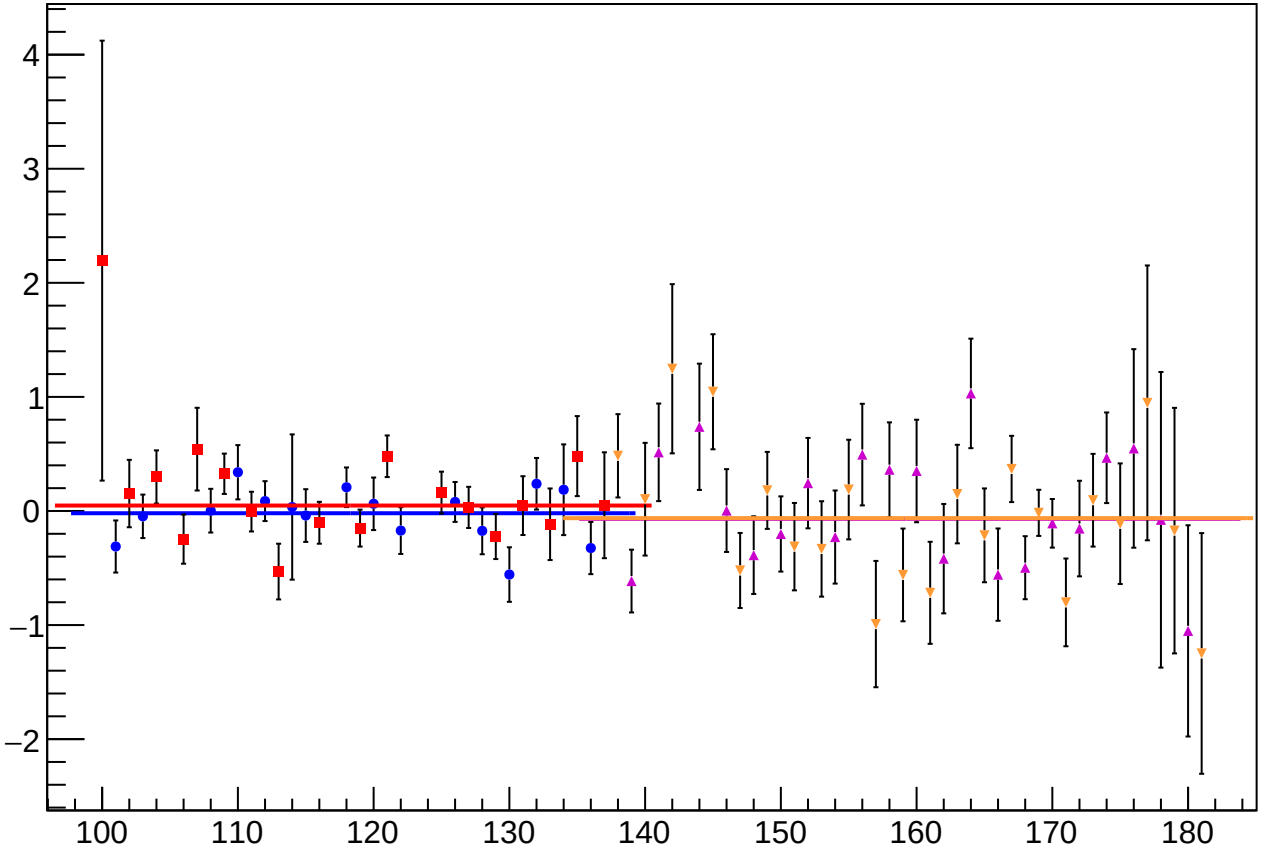
Right: 133.568+/-0.027 $\chi^2$/NDF: 1547246.7/33

In: 192.478+/-0.032 $\chi^2$/NDF:11434726.4/36

Out: 184.445+/-0.032 $\chi^2$/NDF:12986515.3/39

All: 188.396+/-0.023 $\chi^2$/NDF: 24452777.2/76

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.054 $\chi^2$/NDF: 16.0/15

Left Out: -0.063+/-0.086 $\chi^2$/NDF:28.8/21

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.069+/-0.084 $\chi^2$/NDF:26.5/20

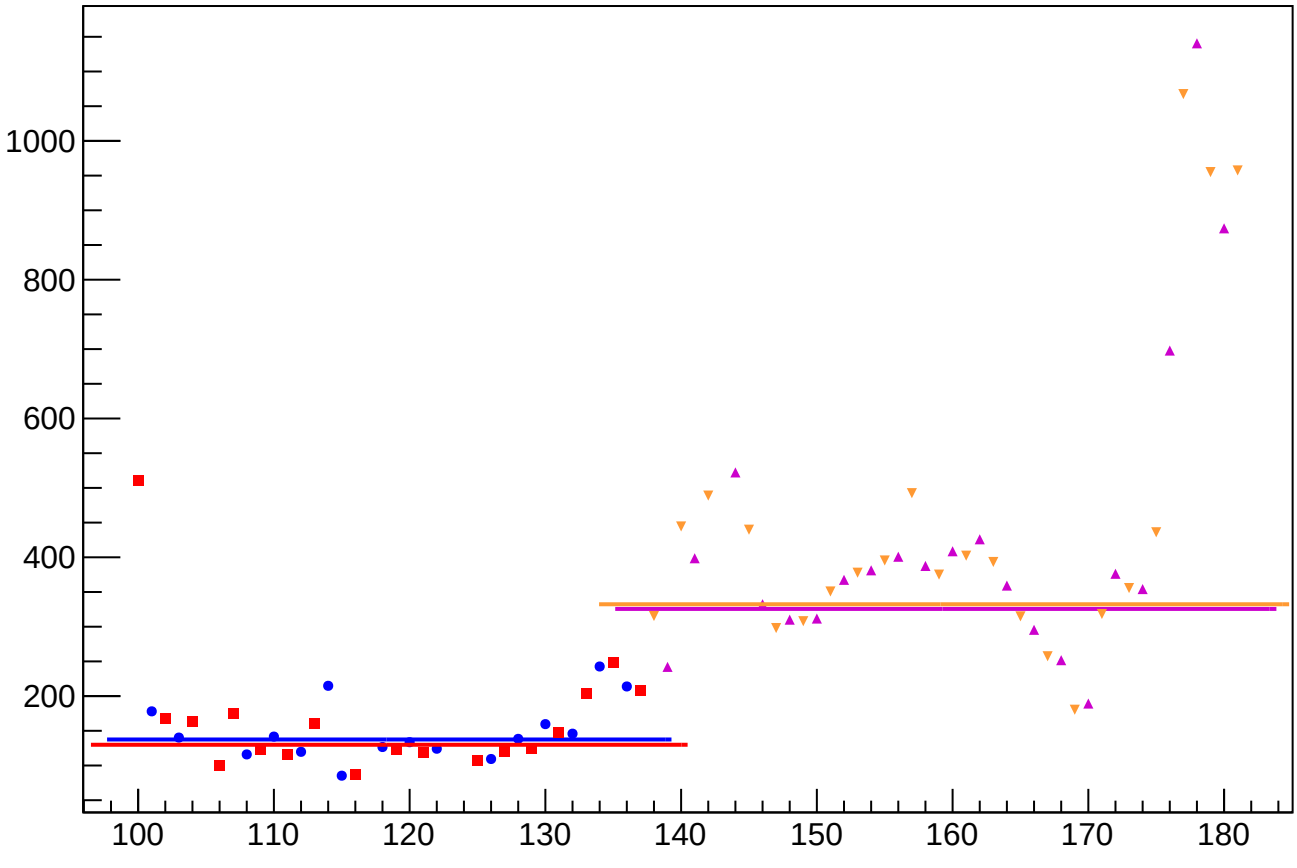
Left: -0.066+/-0.060 $\chi^2$/NDF: 55.3/42

Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.034+/-0.046 $\chi^2$/NDF:42.7/36

Out: 0.018+/-0.045 $\chi^2$/NDF:56.3/39

All: -0.008+/-0.032 $\chi^2$/NDF: 99.7/76




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692947.9/15

Left Out: 332.334+/-0.061 $\chi^2$/NDF:4136217.3/21

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833983.9/17

Left In: 325.622+/-0.060 $\chi^2$/NDF:3700608.9/20

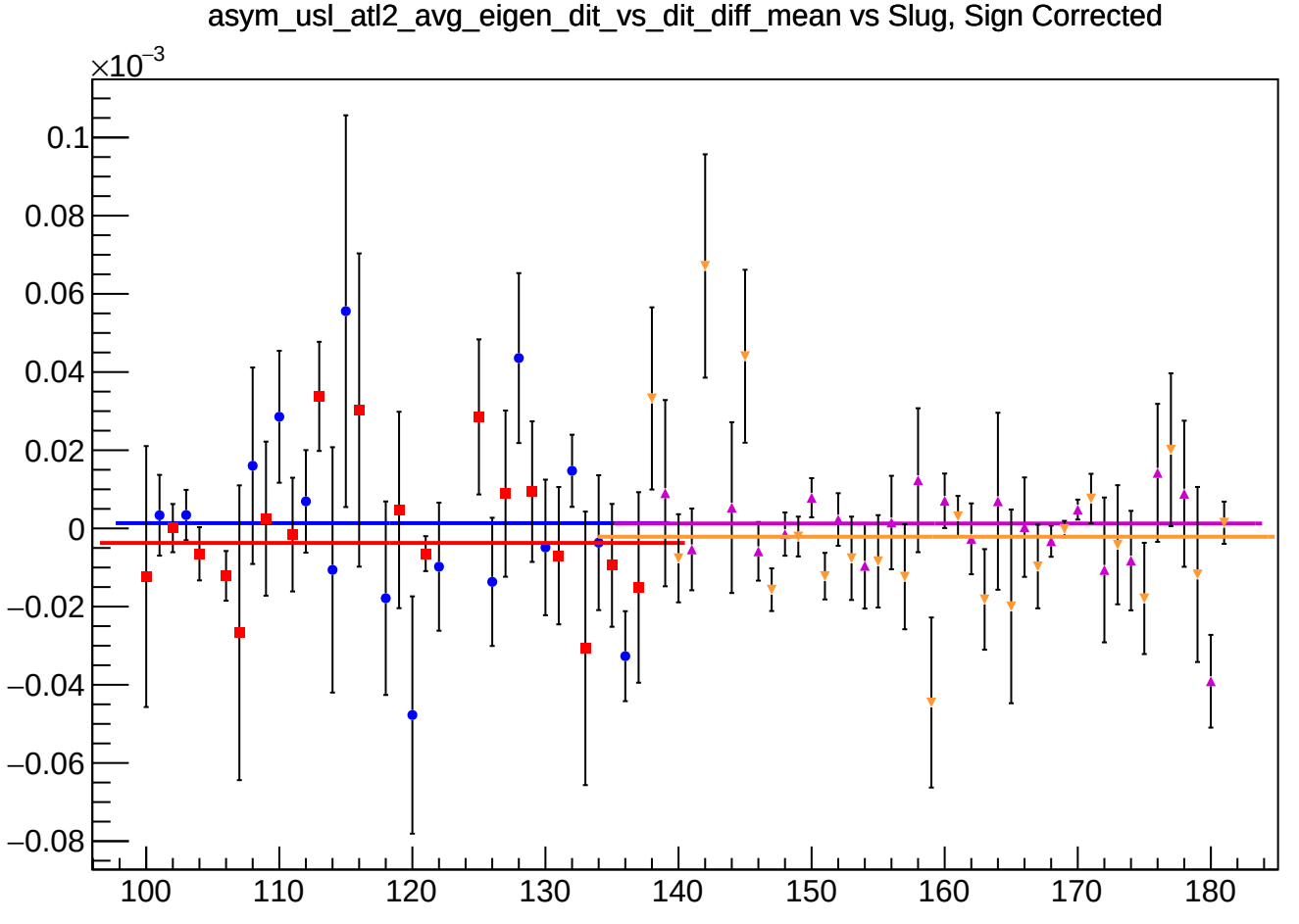
Left: 328.896+/-0.043 $\chi^2$/NDF: 7843005.3/42

Right: 133.568+/-0.027 $\chi^2$/NDF: 1547246.7/33

In: 192.478+/-0.032 $\chi^2$/NDF:11434726.4/36

Out: 184.445+/-0.032 $\chi^2$/NDF:12986515.3/39

All: 188.396+/-0.023 $\chi^2$/NDF: 24452777.2/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:36.8/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:22.2/20

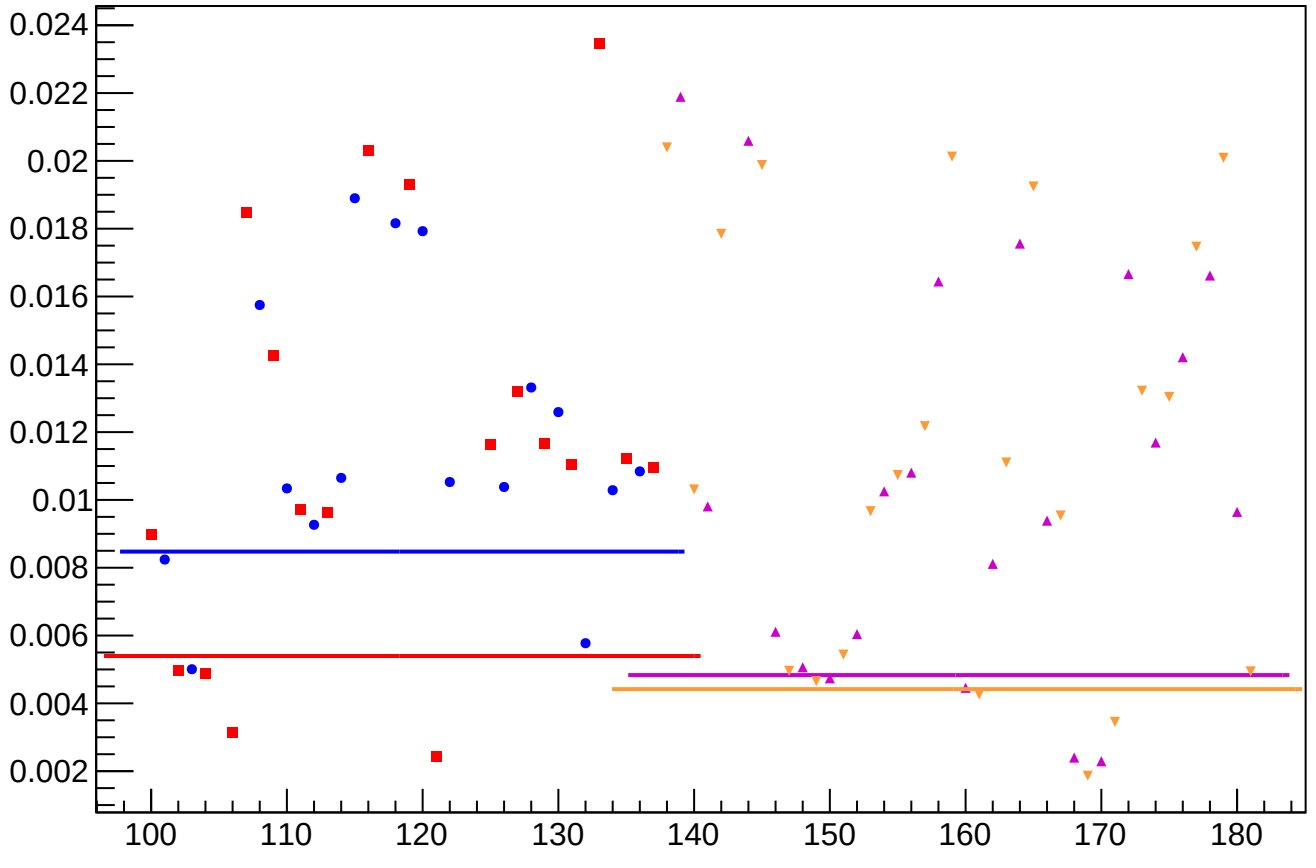
Left: -0.000+/-0.000 $\chi^2$/NDF: 61.6/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.1/33

In: 0.000+/-0.000 $\chi^2$/NDF:46.1/36

Out: -0.000+/-0.000 $\chi^2$/NDF:52.9/39

All: -0.000+/-0.000 $\chi^2$/NDF: 103.1/76




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1925998.4/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:13823753.7/21

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 4909074.3/17

Left In: 0.005+/-0.000 $\chi^2$/NDF:11402509.3/20

Left: 0.005+/-0.000 $\chi^2$/NDF: 25304733.7/42

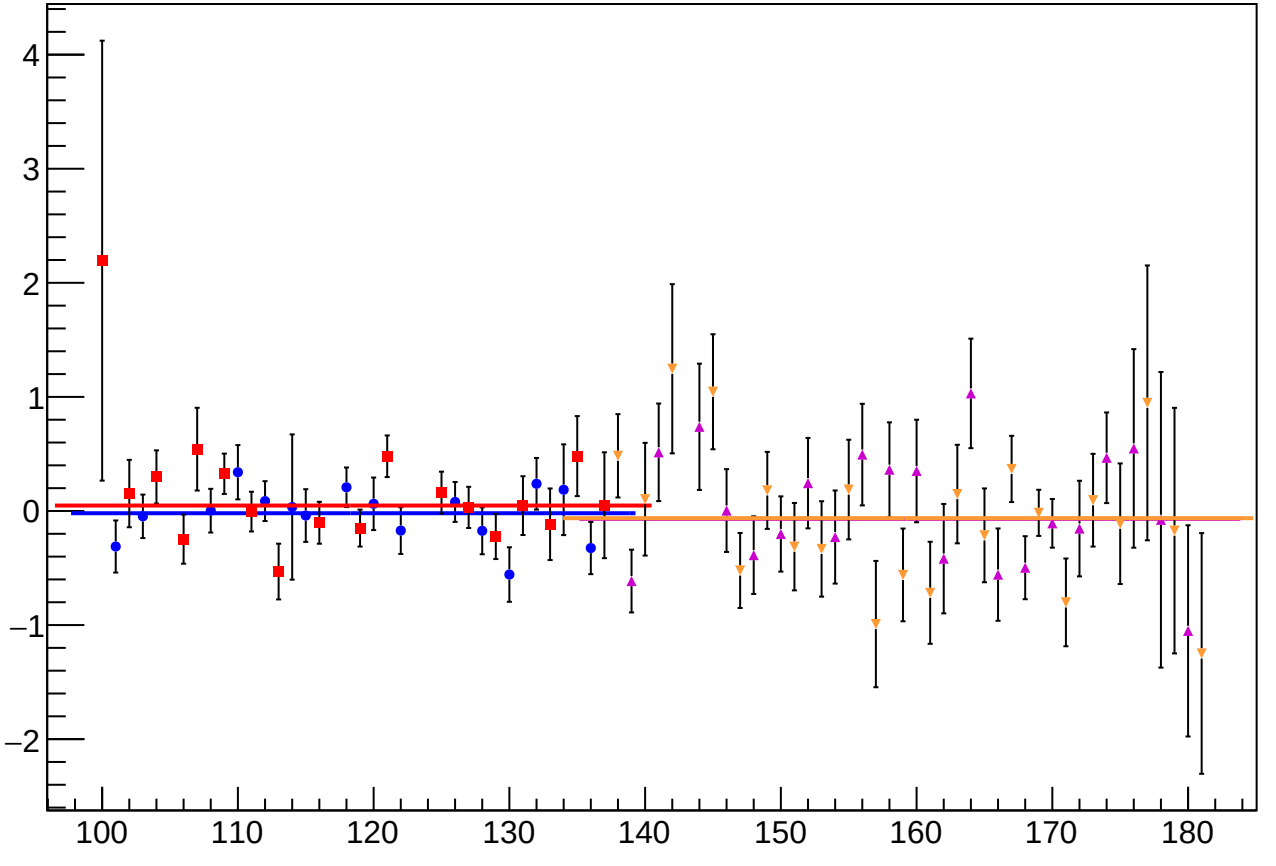
Right: 0.006+/-0.000 $\chi^2$/NDF: 7872620.7/33

In: 0.005+/-0.000 $\chi^2$/NDF:15189182.7/36

Out: 0.005+/-0.000 $\chi^2$/NDF:18959915.3/39

All: 0.005+/-0.000 $\chi^2$/NDF: 34498901.7/76

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.054 $\chi^2$/NDF: 16.0/15

Left Out: -0.063+/-0.086 $\chi^2$/NDF:28.8/21

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.069+/-0.084 $\chi^2$/NDF:26.5/20

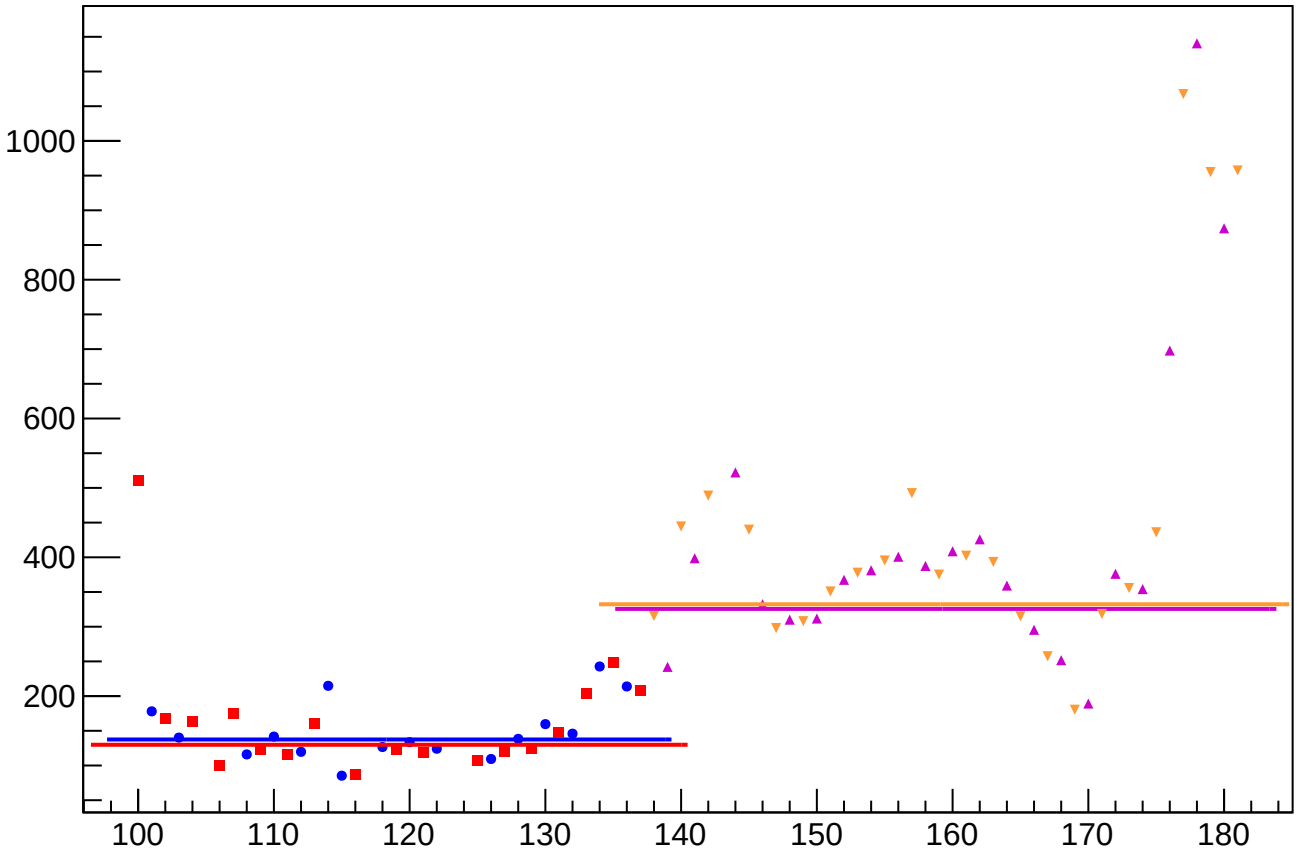
Left: -0.066+/-0.060 $\chi^2$/NDF: 55.3/42

Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.034+/-0.046 $\chi^2$/NDF:42.7/36

Out: 0.018+/-0.045 $\chi^2$/NDF:56.3/39

All: -0.008+/-0.032 $\chi^2$/NDF: 99.7/76




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692923.1/15

Left Out: 332.336+/-0.061 $\chi^2$/NDF:4136283.6/21

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833937.8/17

Left In: 325.625+/-0.060 $\chi^2$/NDF:3700613.4/20

Left: 328.899+/-0.043 $\chi^2$/NDF: 7843074.1/42

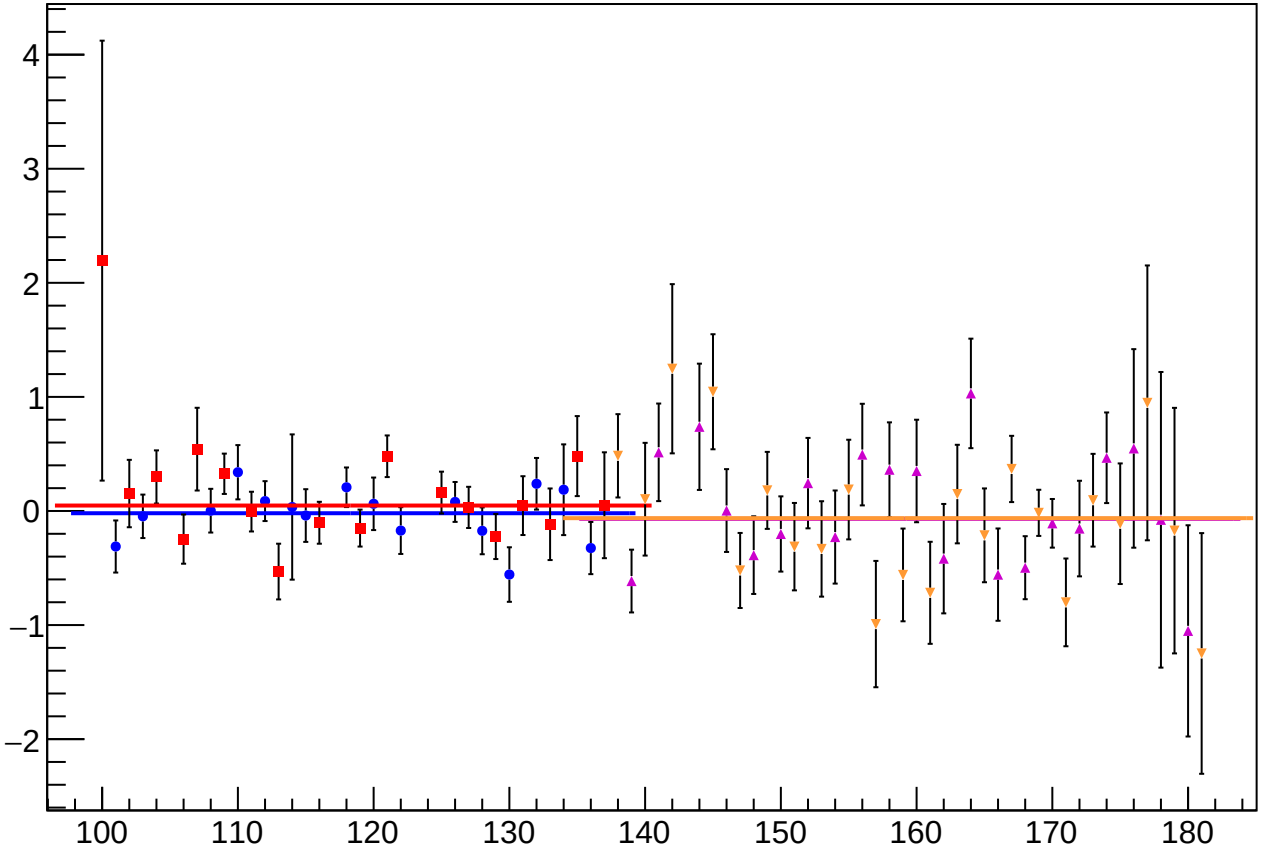
Right: 133.568+/-0.027 $\chi^2$/NDF: 1547174.9/33

In: 192.478+/-0.032 $\chi^2$/NDF:11434846.4/36

Out: 184.445+/-0.032 $\chi^2$/NDF:12986614.2/39

All: 188.396+/-0.023 $\chi^2$/NDF: 24452996.8/76

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.054 $\chi^2$/NDF: 16.0/15

Left Out: -0.063+/-0.086 $\chi^2$/NDF:28.8/21

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.069+/-0.084 $\chi^2$/NDF:26.5/20

Left: -0.066+/-0.060 $\chi^2$/NDF: 55.3/42

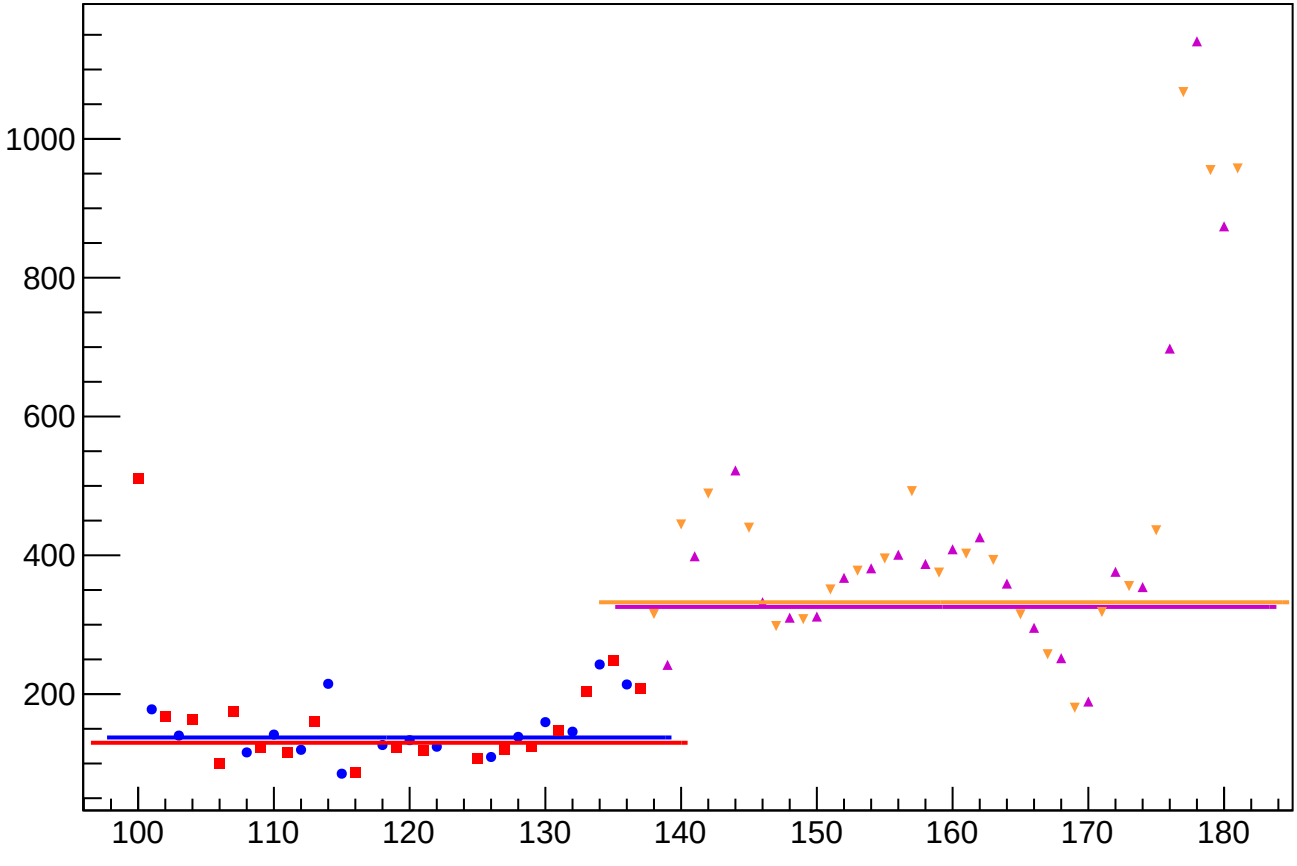
Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.034+/-0.046 $\chi^2$/NDF:42.7/36

Out: 0.018+/-0.045 $\chi^2$/NDF:56.3/39

All: -0.008+/-0.032 $\chi^2$/NDF: 99.7/76

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692923.1/15

Left Out: 332.336+/-0.061 $\chi^2$/NDF:4136283.6/21

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833937.8/17

Left In: 325.625+/-0.060 $\chi^2$/NDF:3700613.4/20

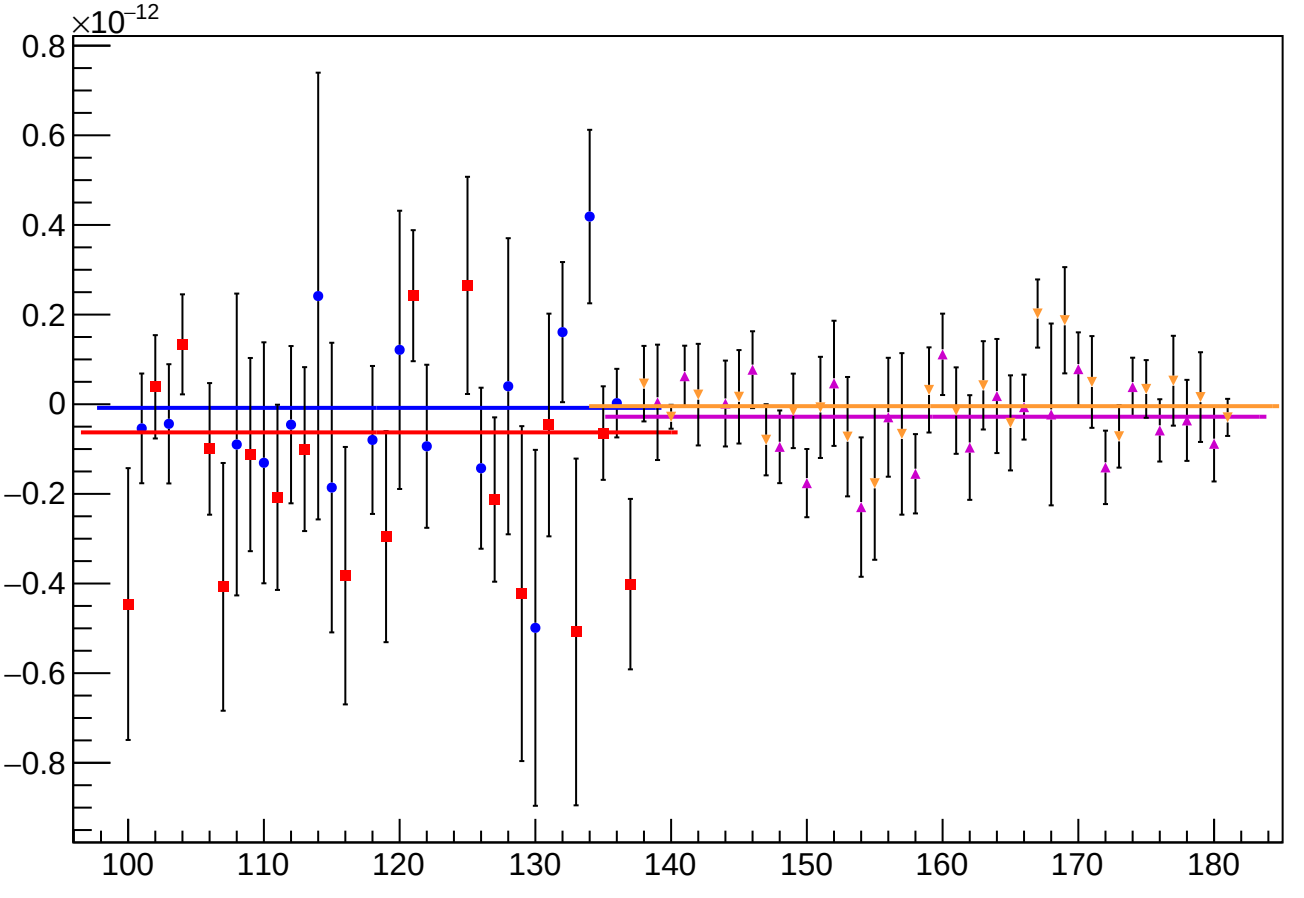
Left: 328.899+/-0.043 $\chi^2$/NDF: 7843074.1/42

Right: 133.568+/-0.027 $\chi^2$/NDF: 1547174.9/33

In: 192.478+/-0.032 $\chi^2$/NDF:11434846.4/36

Out: 184.445+/-0.032 $\chi^2$/NDF:12986614.2/39

All: 188.396+/-0.023 $\chi^2$/NDF: 24452996.8/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.3/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:20.2/20

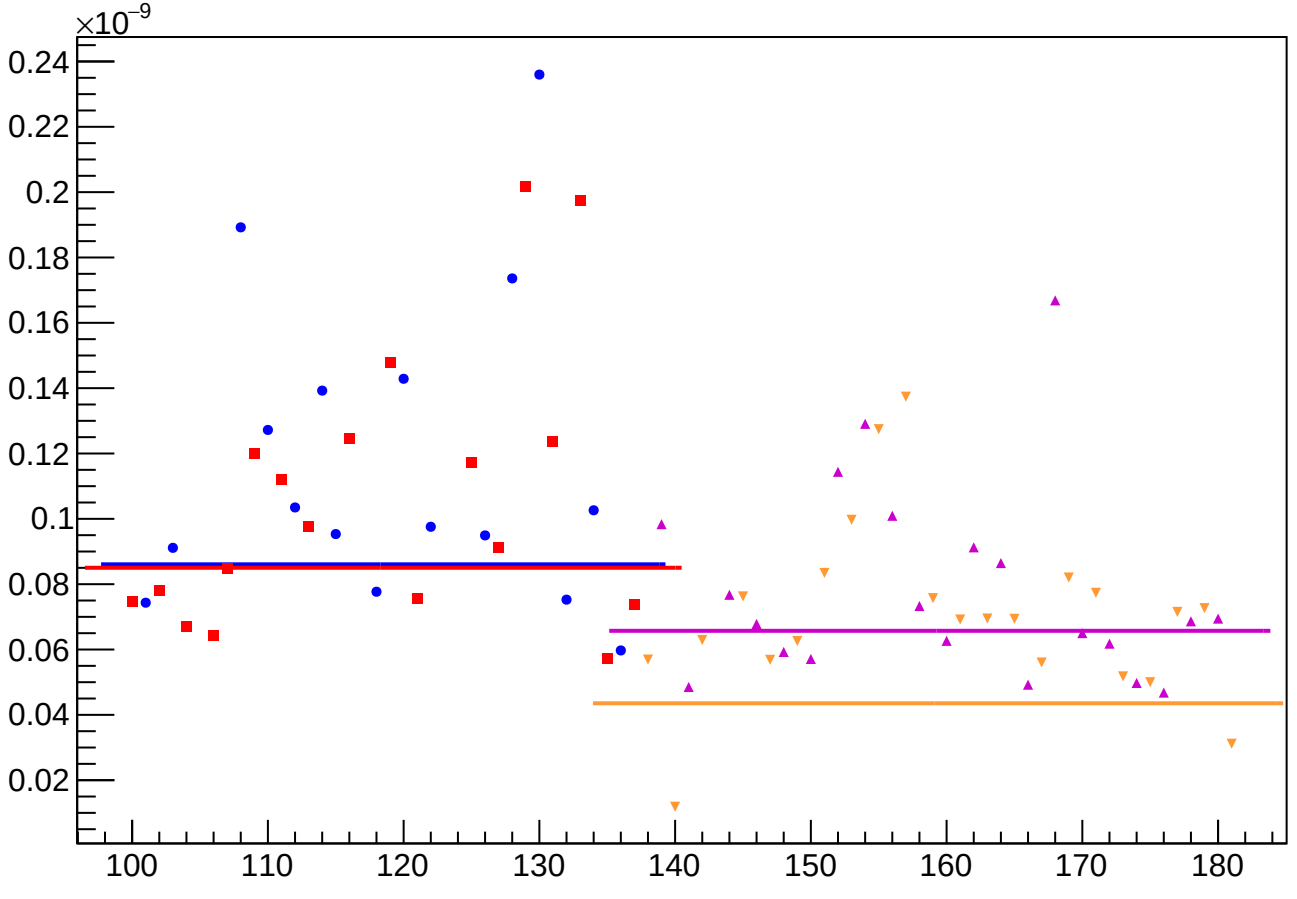
Left: -0.000+/-0.000 $\chi^2$/NDF: 37.4/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:30.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:40.2/39

All: -0.000+/-0.000 $\chi^2$/NDF: 70.7/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1072075.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6581291.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 983211.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2083485.2/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 10244553.9/42

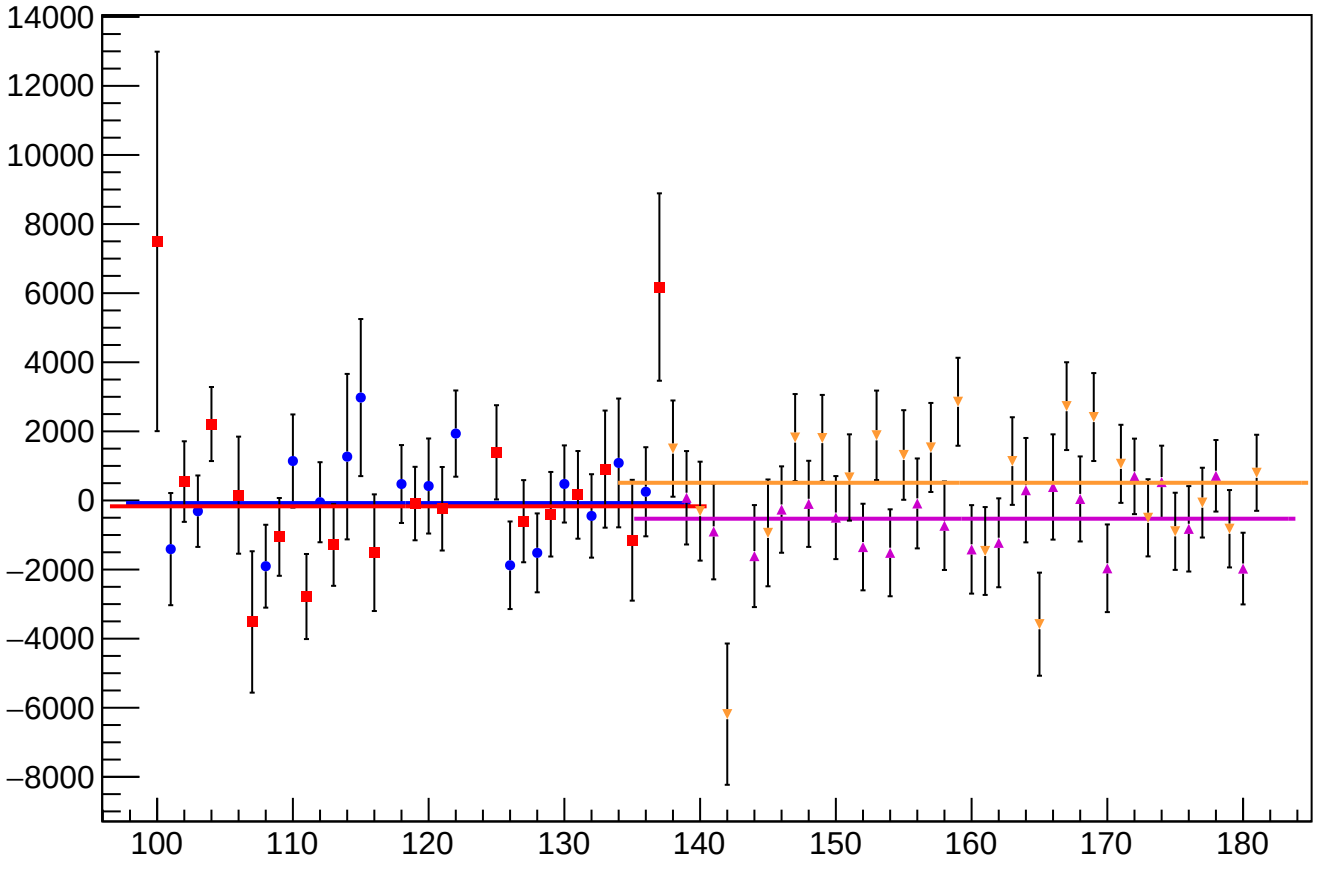
Right: 0.000+/-0.000 $\chi^2$/NDF: 2055907.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:3533858.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:9302824.7/39

All: 0.000+/-0.000 $\chi^2$/NDF: 14475471.2/76

# reg_asym_usl_atl2_dd_mean vs Slug, Sign Corrected




Right In: -75.944+/-326.226 $\chi^2$/NDF: 13.4/15

Left Out: 511.459+/-268.235 $\chi^2$/NDF:40.1/21

Right Out: -169.345+/-321.827 $\chi^2$/NDF: 24.4/17

Left In: -528.616+/-271.274 $\chi^2$/NDF:10.8/20

Left: -2.720+/-190.736 $\chi^2$/NDF: 58.3/42

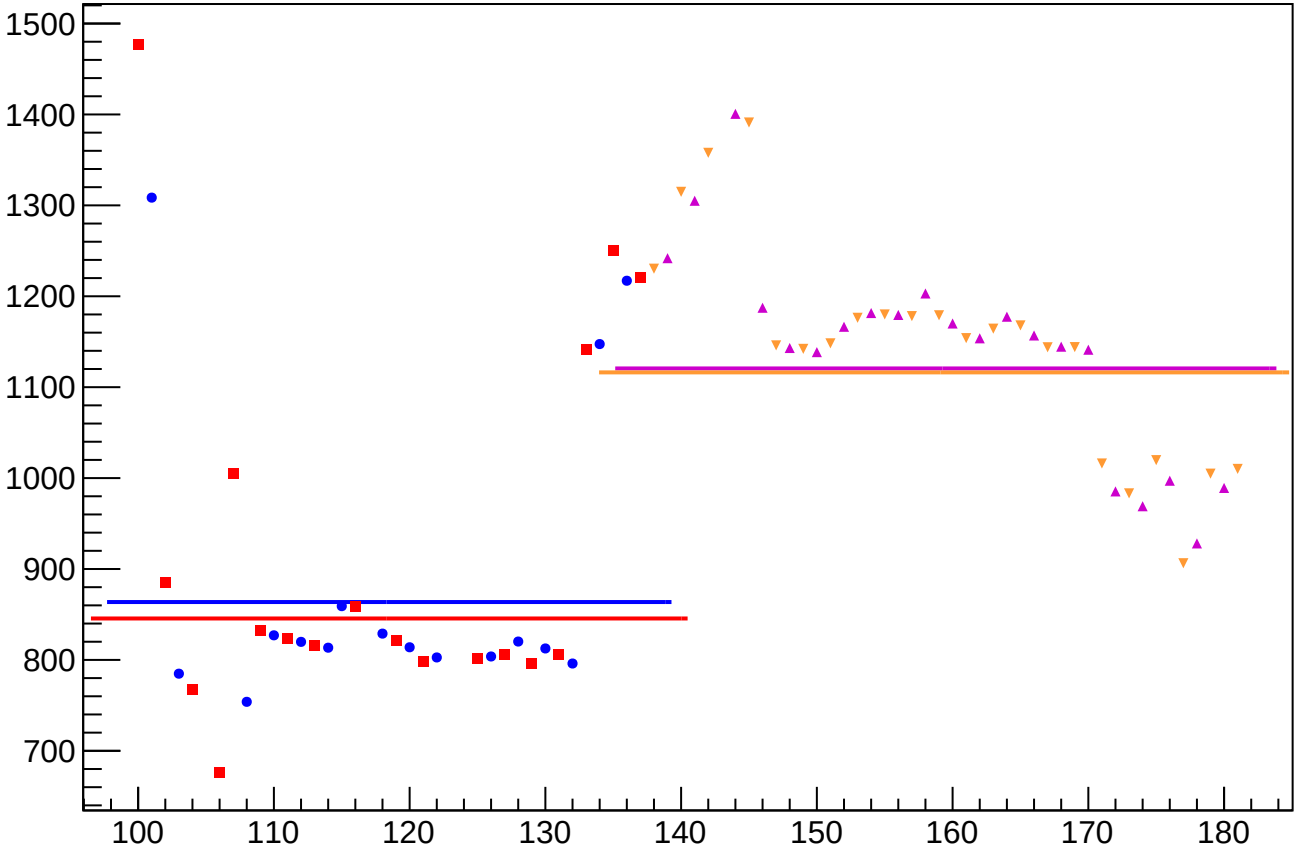
Right: -123.279+/-229.106 $\chi^2$/NDF: 37.8/33

In: -343.563+/-208.581 $\chi^2$/NDF:25.3/36

Out: 232.385+/-206.049 $\chi^2$/NDF:67.1/39

All: -52.072+/-146.586 $\chi^2$/NDF: 96.2/76

# reg_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.8/15

Left Out: 1116.277+/-0.190 $\chi^2$/NDF:357707.1/21

Right Out: 845.579+/-0.225 $\chi^2$/NDF: 307774.6/17

Left In: 1120.614+/-0.192 $\chi^2$/NDF:352797.4/20

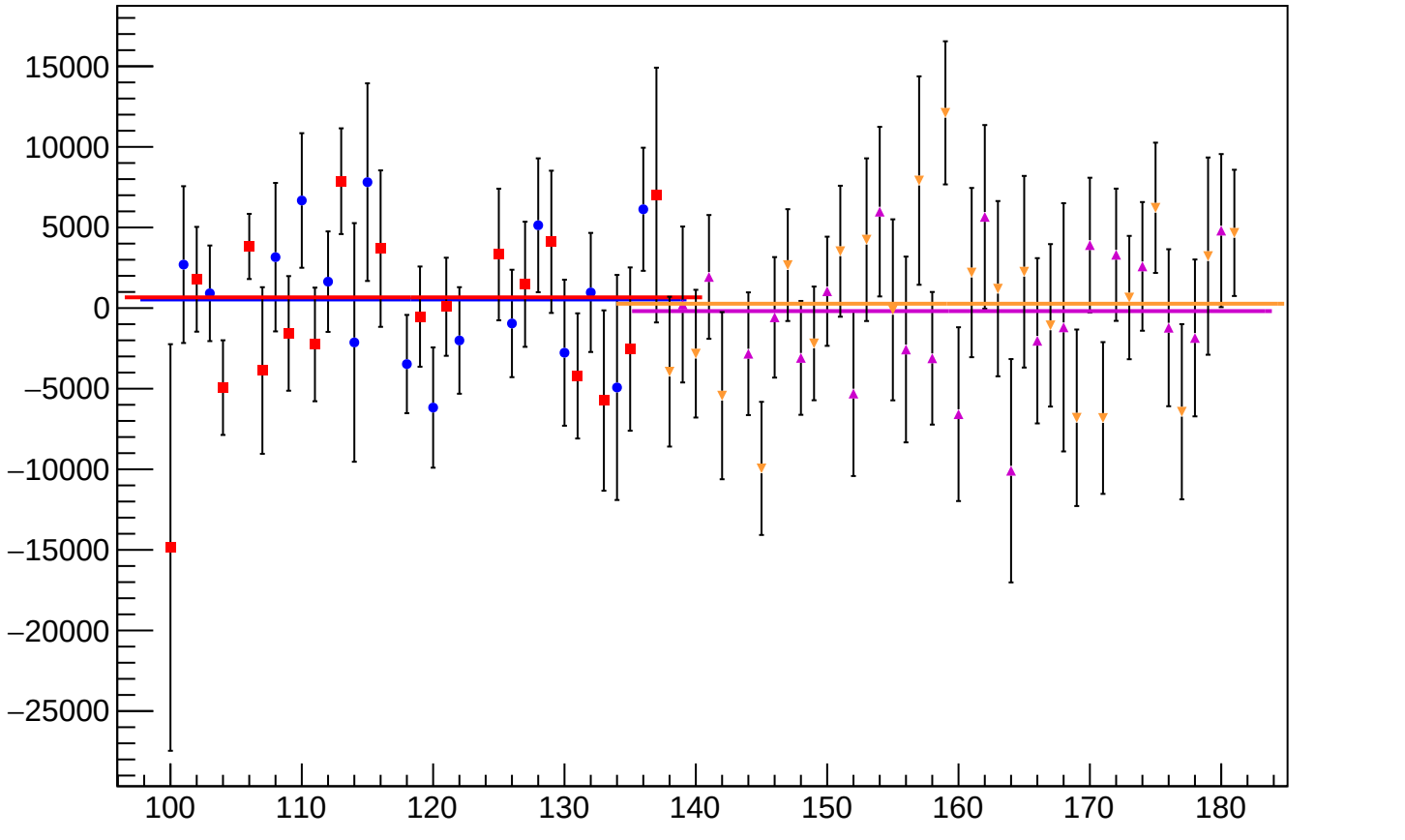
Left: 1118.421+/-0.135 $\chi^2$/NDF: 710762.9/42

Right: 854.385+/-0.161 $\chi^2$/NDF: 718425.8/33

In: 1015.572+/-0.147 $\chi^2$/NDF:1493850.4/36

Out: 1003.681+/-0.145 $\chi^2$/NDF:1512727.2/39

All: 1009.523+/-0.103 $\chi^2$/NDF: 3009883.7/76




Right In: 534.507+/-981.290 $\chi^2$/NDF: 14.7/15

Left Out: 270.729+/-977.142 $\chi^2$/NDF:29.0/21

Right Out: 665.878+/-864.970 $\chi^2$/NDF: 20.0/17

Left In: -187.481+/-984.687 $\chi^2$/NDF:12.8/20

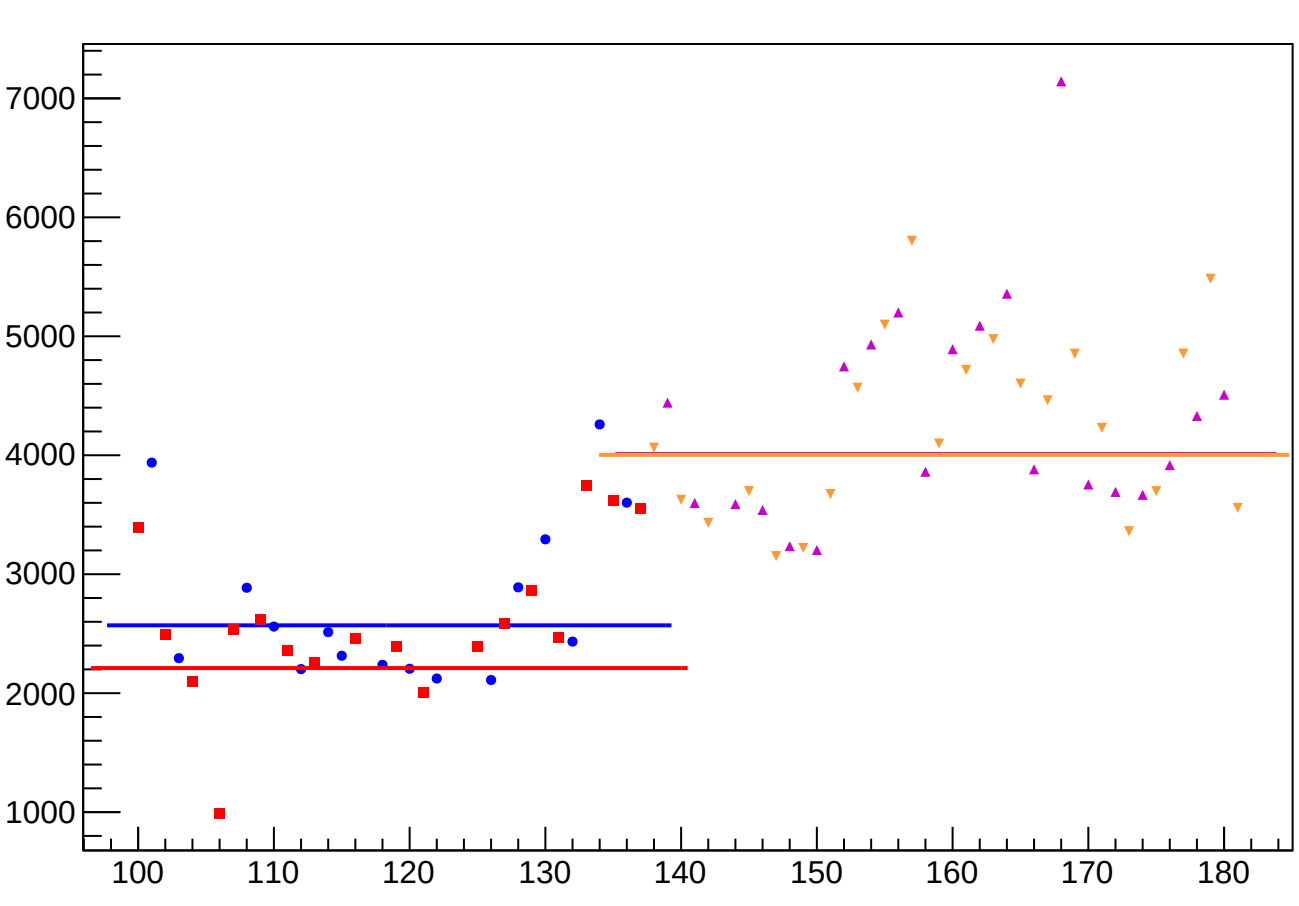
Left: 43.386+/-693.596 $\chi^2$/NDF: 41.9/42

Right: 608.437+/-648.874 $\chi^2$/NDF: 34.6/33

In: 174.761+/-695.075 $\chi^2$/NDF:27.7/36

Out: 492.277+/-647.670 $\chi^2$/NDF:49.1/39

All: 344.714+/-473.845 $\chi^2$/NDF: 76.8/76




Right In: 2570.135+/-0.694 $\chi^2$/NDF: 662477.9/15

Left Out: 4003.138+/-0.691 $\chi^2$/NDF:993191.9/21

Right Out: 2211.269+/-0.612 $\chi^2$/NDF: 1264087.9/17

Left In: 4010.413+/-0.696 $\chi^2$/NDF:1094840.5/20

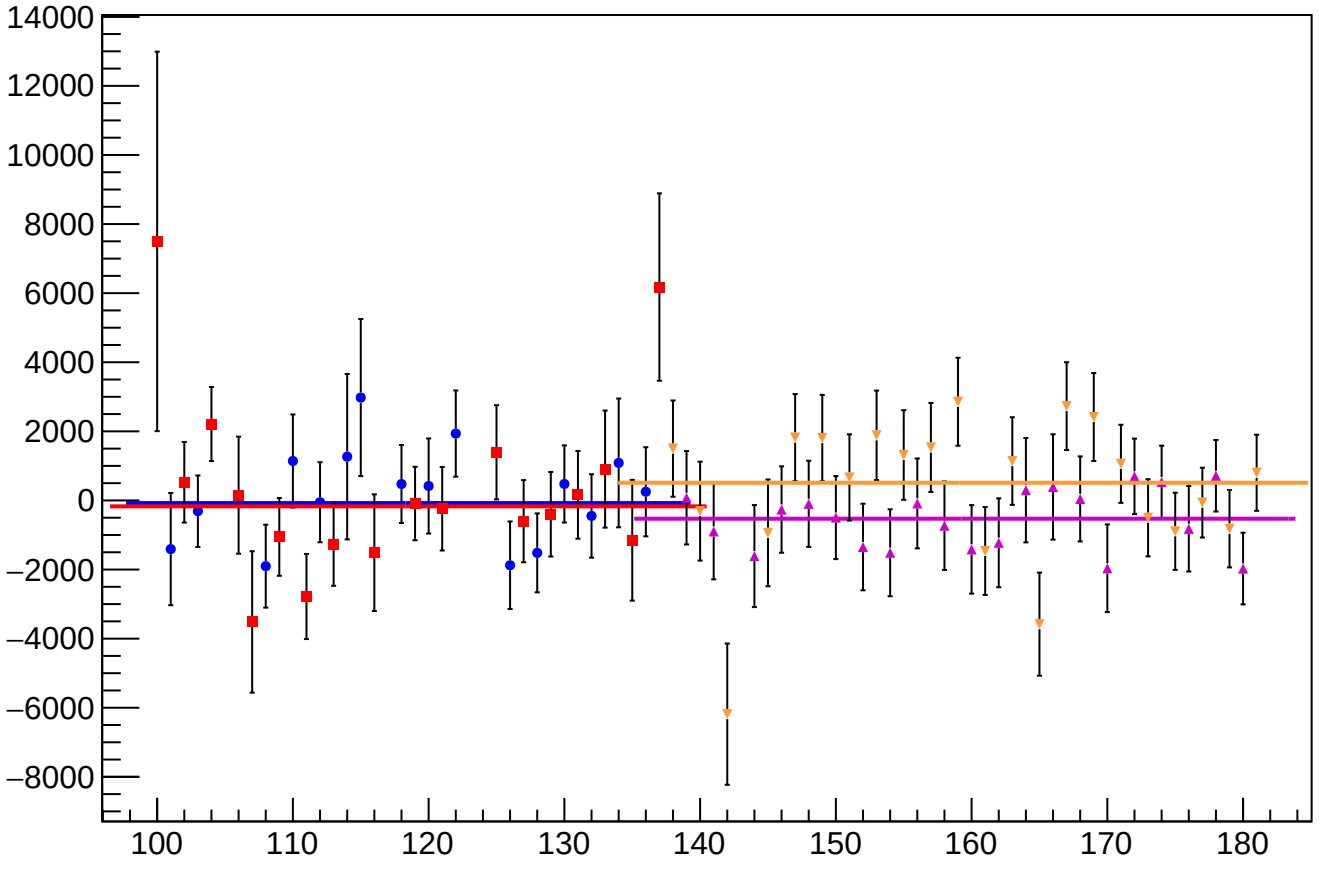
Left: 4006.747+/-0.490 $\chi^2$/NDF: 2088087.4/42

Right: 2368.182+/-0.459 $\chi^2$/NDF: 2077093.7/33

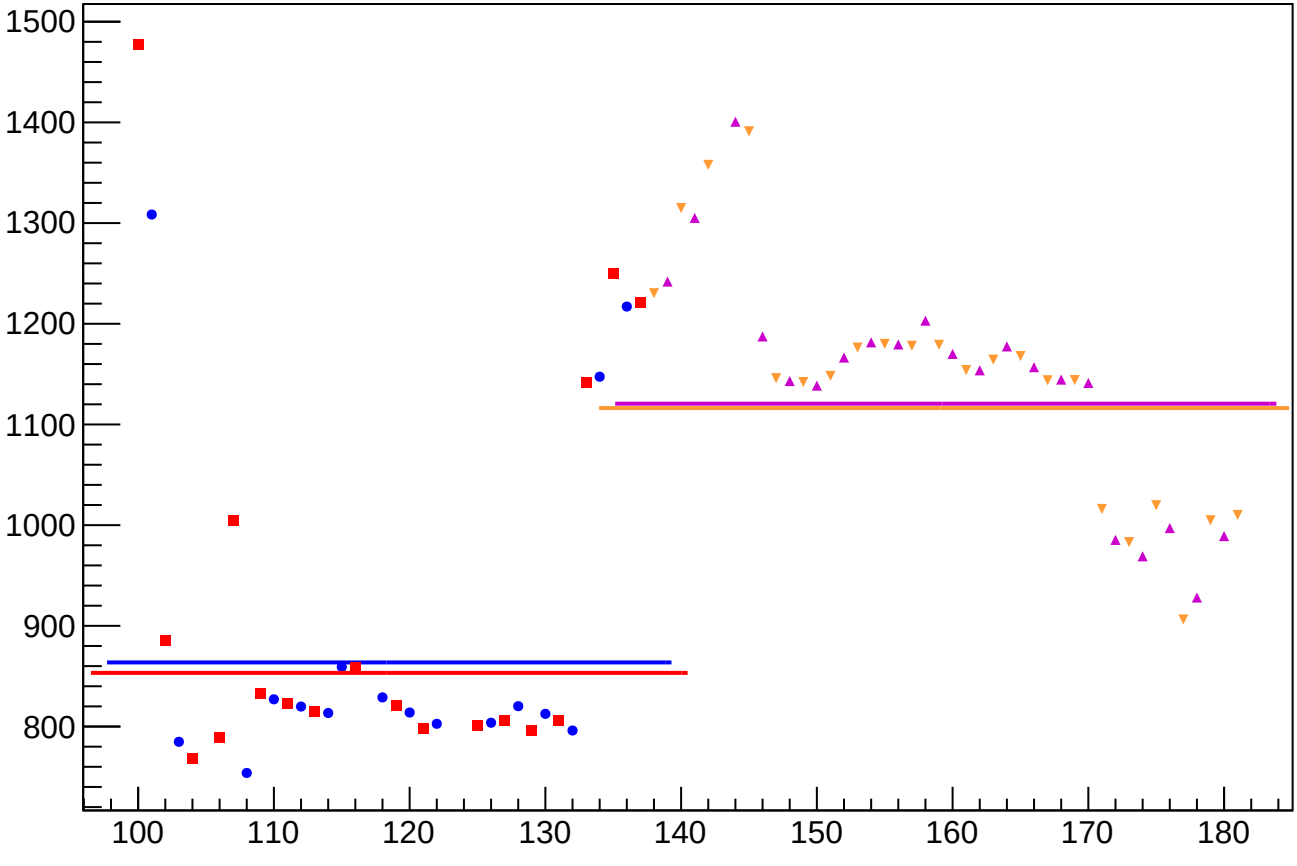
In: 3287.785+/-0.491 $\chi^2$/NDF:3904132.0/36

Out: 2998.494+/-0.458 $\chi^2$/NDF:6028073.6/39

All: 3132.939+/-0.335 $\chi^2$/NDF: 10117644.8/7


cor_asym_usl_atl2_dd_mean vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
100
110
120
130
140
150
160
170
180
Right In: -76.022+/-326.226 χ²/NDF: 13.3/15
Left Out: 511.504+/-268.235 χ²/NDF:40.1/21
Right Out: -170.982+/-321.832 χ²/NDF: 24.4/17
Left In: -528.577+/-271.274 χ²/NDF:10.8/20
Left: -2.678+/-190.736 χ²/NDF: 58.3/42
Right: -124.146+/-229.107 χ²/NDF: 37.7/33
In: -343.572+/-208.581 χ²/NDF:25.3/36
Out: 231.746+/-206.051 χ²/NDF:67.1/39
All: -52.402+/-146.586 χ²/NDF: 96.2/76

# cor_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.5/15

Left Out: 1116.277+/-0.190 $\chi^2$/NDF:357707.0/21

Right Out: 853.289+/-0.226 $\chi^2$/NDF: 275357.1/17

Left In: 1120.614+/-0.192 $\chi^2$/NDF:352797.4/20

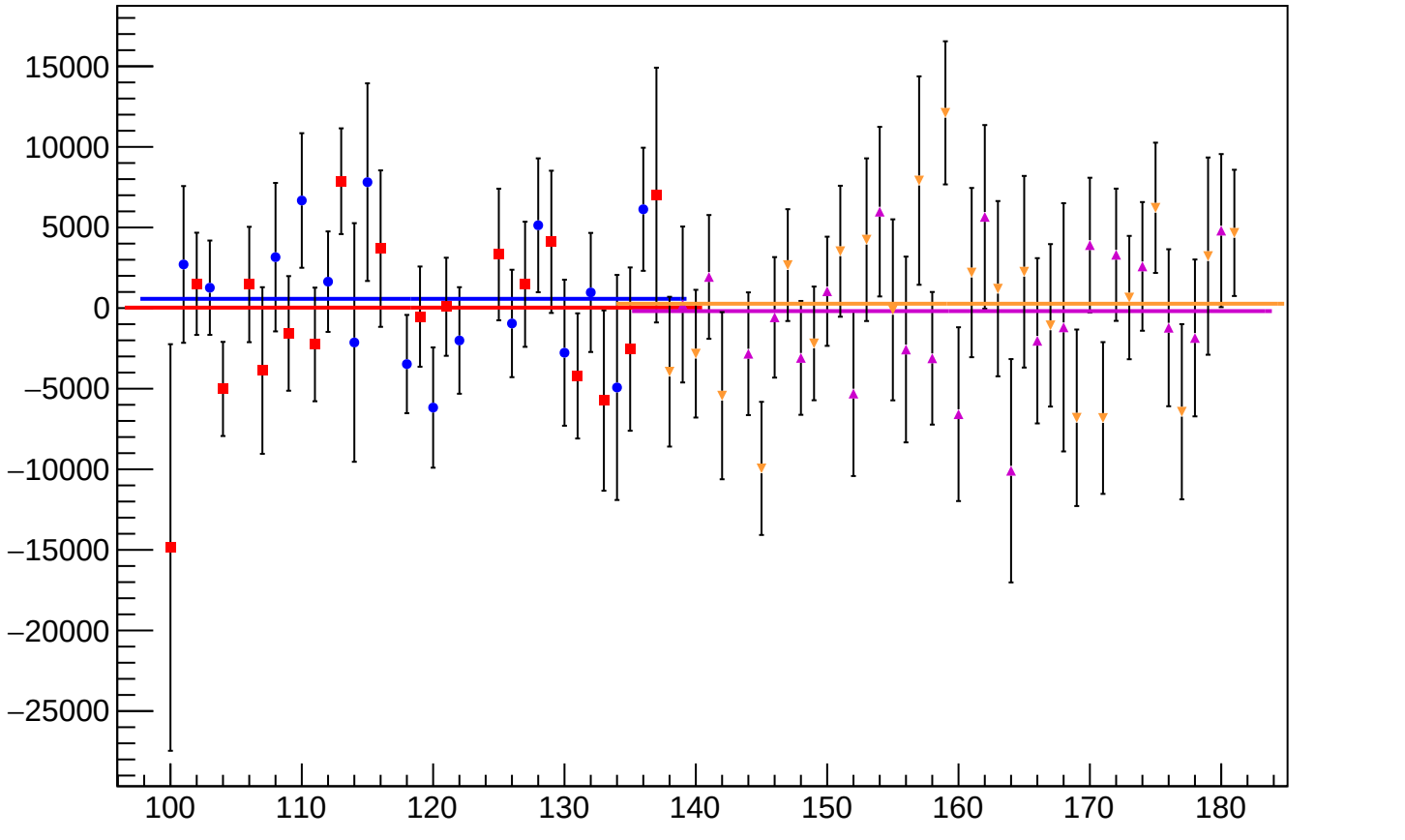
Left: 1118.421+/-0.135 $\chi^2$/NDF: 710762.9/42

Right: 858.378+/-0.162 $\chi^2$/NDF: 683885.4/33

In: 1015.572+/-0.147 $\chi^2$/NDF:1493850.5/36

Out: 1007.817+/-0.145 $\chi^2$/NDF:1425945.1/39

All: 1011.638+/-0.104 $\chi^2$/NDF: 2921197.8/76




Right In: 574.964+/-979.856 $\chi^2$/NDF: 14.7/15

Left Out: 270.750+/-977.143 $\chi^2$/NDF:29.0/21

Right Out: 28.604+/-922.115 $\chi^2$/NDF: 17.2/17

Left In: -187.522+/-984.686 $\chi^2$/NDF:12.8/20

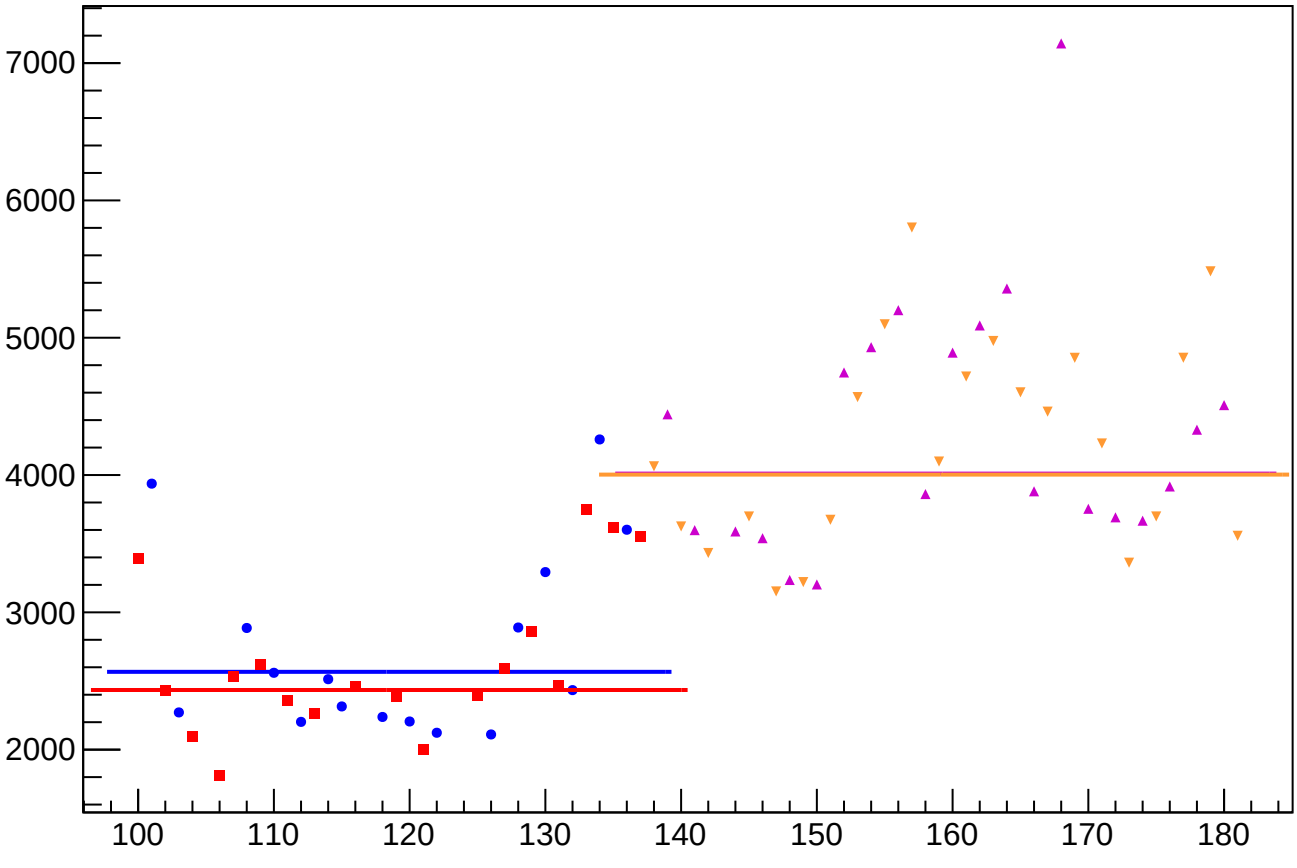
Left: 43.376+/-693.596 $\chi^2$/NDF: 41.9/42

Right: 285.212+/-671.519 $\chi^2$/NDF: 32.1/33

In: 195.596+/-694.564 $\chi^2$/NDF:27.8/36

Out: 142.667+/-670.644 $\chi^2$/NDF:46.2/39

All: 168.204+/-482.452 $\chi^2$/NDF: 74.0/76




Right In: 2566.732+/-0.693 $\chi^2$/NDF: 665871.6/15

Left Out: 4003.141+/-0.691 $\chi^2$/NDF:993186.8/21

Right Out: 2434.430+/-0.652 $\chi^2$/NDF: 434078.9/17

Left In: 4010.408+/-0.696 $\chi^2$/NDF:1094844.5/20

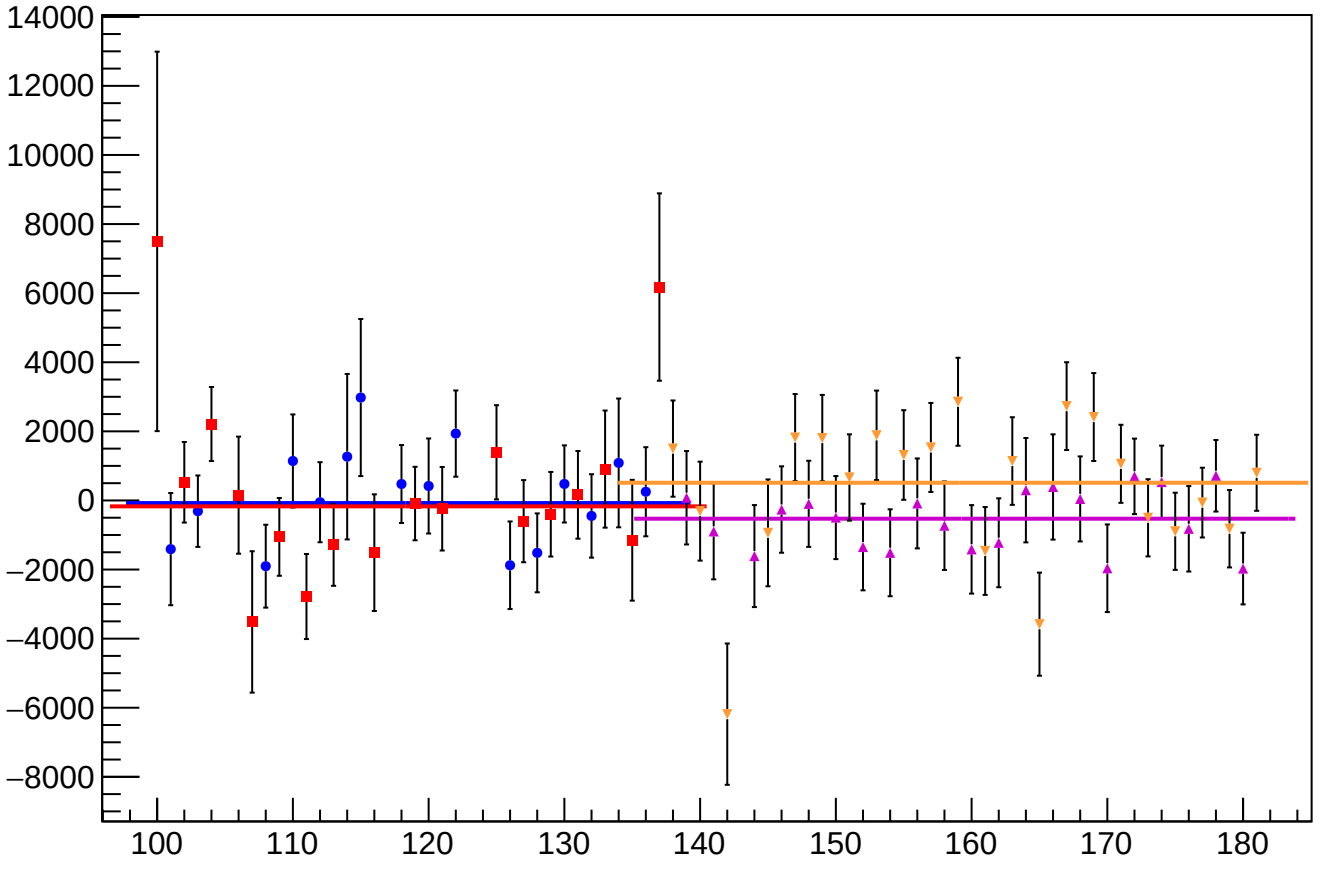
Left: 4006.747+/-0.490 $\chi^2$/NDF: 2088086.2/42

Right: 2496.568+/-0.475 $\chi^2$/NDF: 1119287.3/33

In: 3285.021+/-0.491 $\chi^2$/NDF:3920817.8/36

Out: 3173.373+/-0.474 $\chi^2$/NDF:4153816.0/39

All: 3227.241+/-0.341 $\chi^2$/NDF: 8101378.0/76




Right In: -76.022+/-326.226 $\chi^2$/NDF: 13.3/15

Left Out: 511.504+/-268.235 $\chi^2$/NDF:40.1/21

Right Out: -170.982+/-321.832 $\chi^2$/NDF: 24.4/17

Left In: -528.577+/-271.274 $\chi^2$/NDF:10.8/20

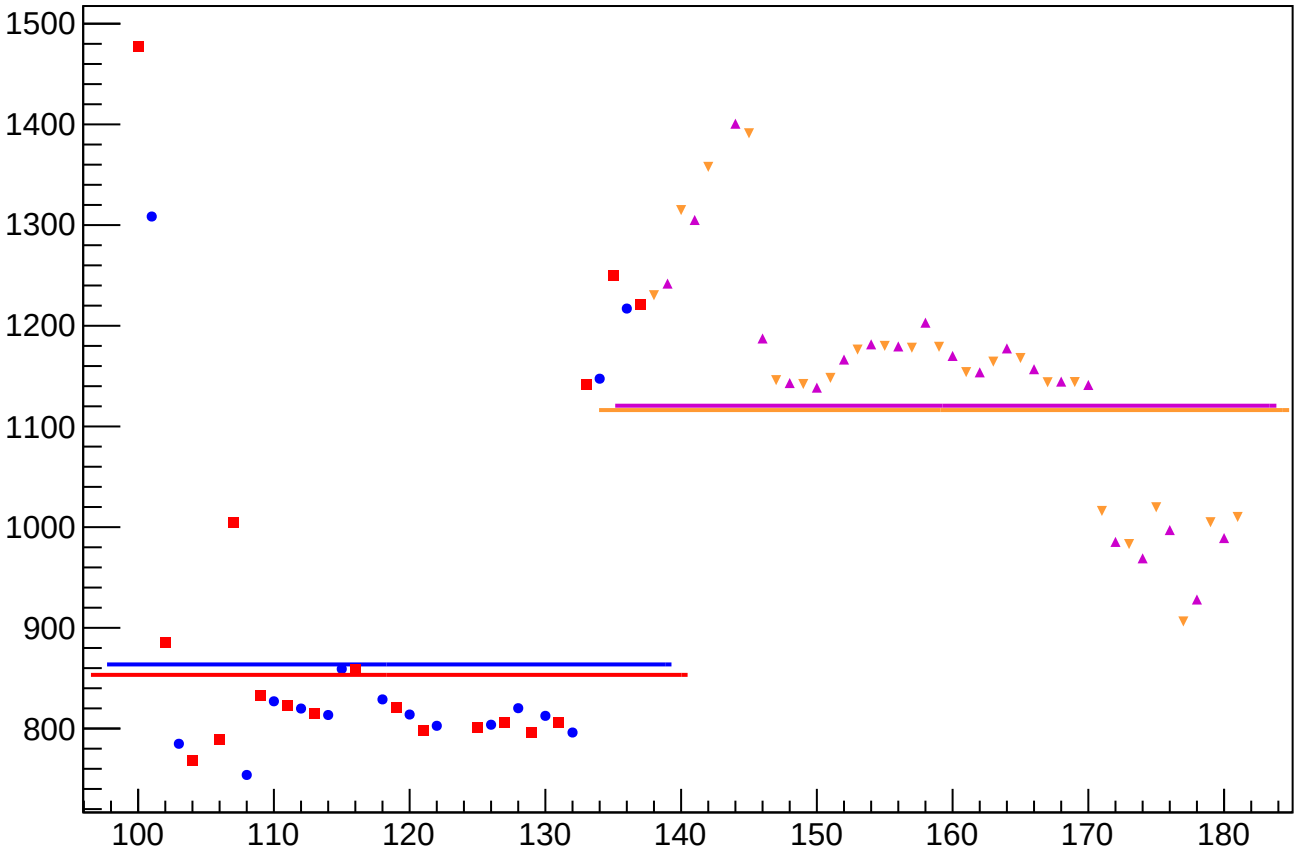
Left: -2.678+/-190.736 $\chi^2$/NDF: 58.3/42

Right: -124.146+/-229.107 $\chi^2$/NDF: 37.7/33

In: -343.572+/-208.581 $\chi^2$/NDF:25.3/36

Out: 231.746+/-206.051 $\chi^2$/NDF:67.1/39

All: -52.402+/-146.586 $\chi^2$/NDF: 96.2/76




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.5/15

Left Out: 1116.277+/-0.190 $\chi^2$/NDF:357707.0/21

Right Out: 853.289+/-0.226 $\chi^2$/NDF: 275357.1/17

Left In: 1120.614+/-0.192 $\chi^2$/NDF:352797.4/20

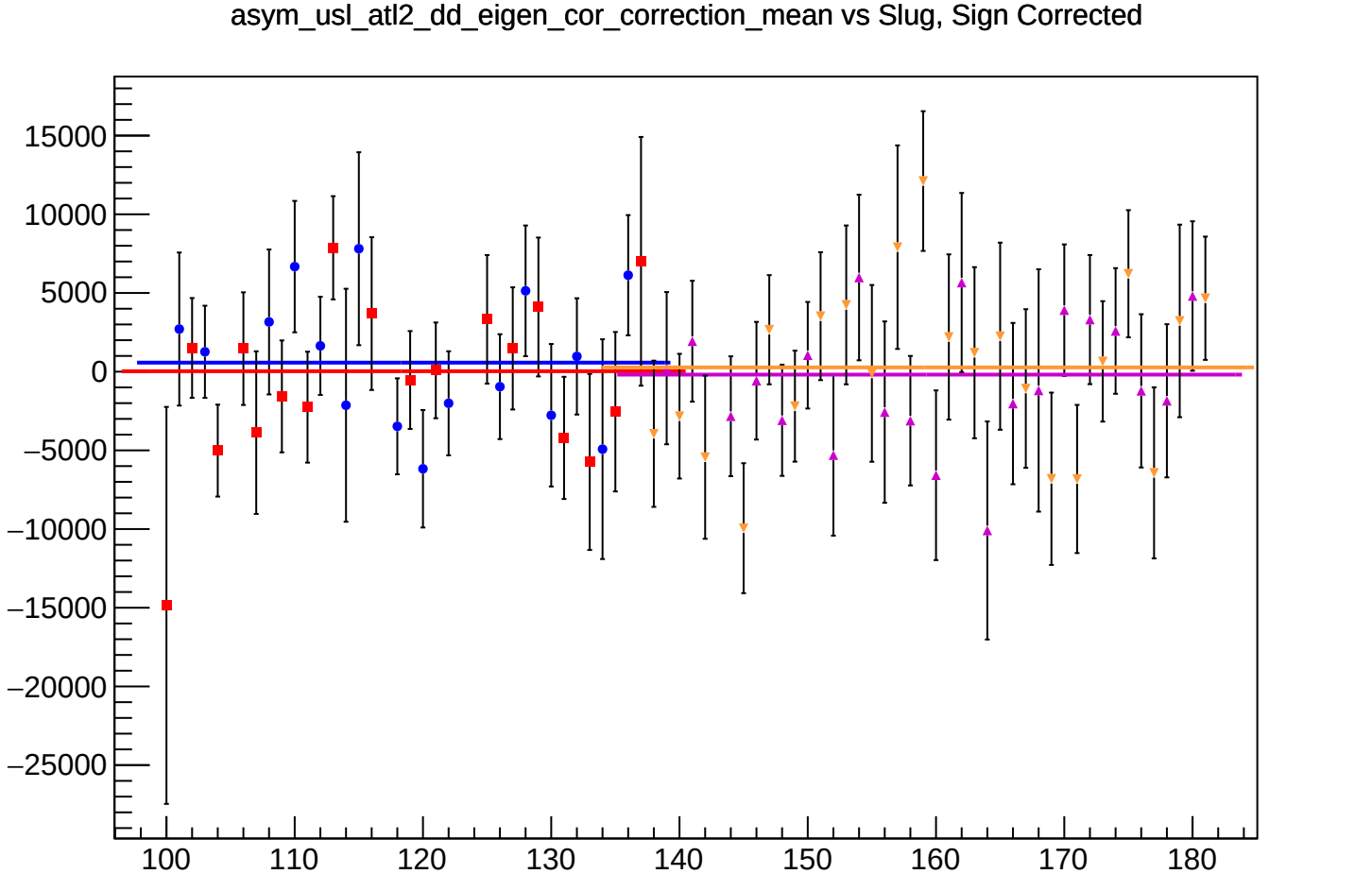
Left: 1118.421+/-0.135 $\chi^2$/NDF: 710762.9/42

Right: 858.378+/-0.162 $\chi^2$/NDF: 683885.4/33

In: 1015.572+/-0.147 $\chi^2$/NDF:1493850.5/36

Out: 1007.817+/-0.145 $\chi^2$/NDF:1425945.1/39

All: 1011.638+/-0.104 $\chi^2$/NDF: 2921197.8/76




Right In: 574.964+/-979.856 $\chi^2$/NDF: 14.7/15

Left Out: 270.750+/-977.143 $\chi^2$/NDF:29.0/21

Right Out: 28.604+/-922.115 $\chi^2$/NDF: 17.2/17

Left In: -187.522+/-984.686 $\chi^2$/NDF:12.8/20

Left: 43.376+/-693.596 $\chi^2$/NDF: 41.9/42

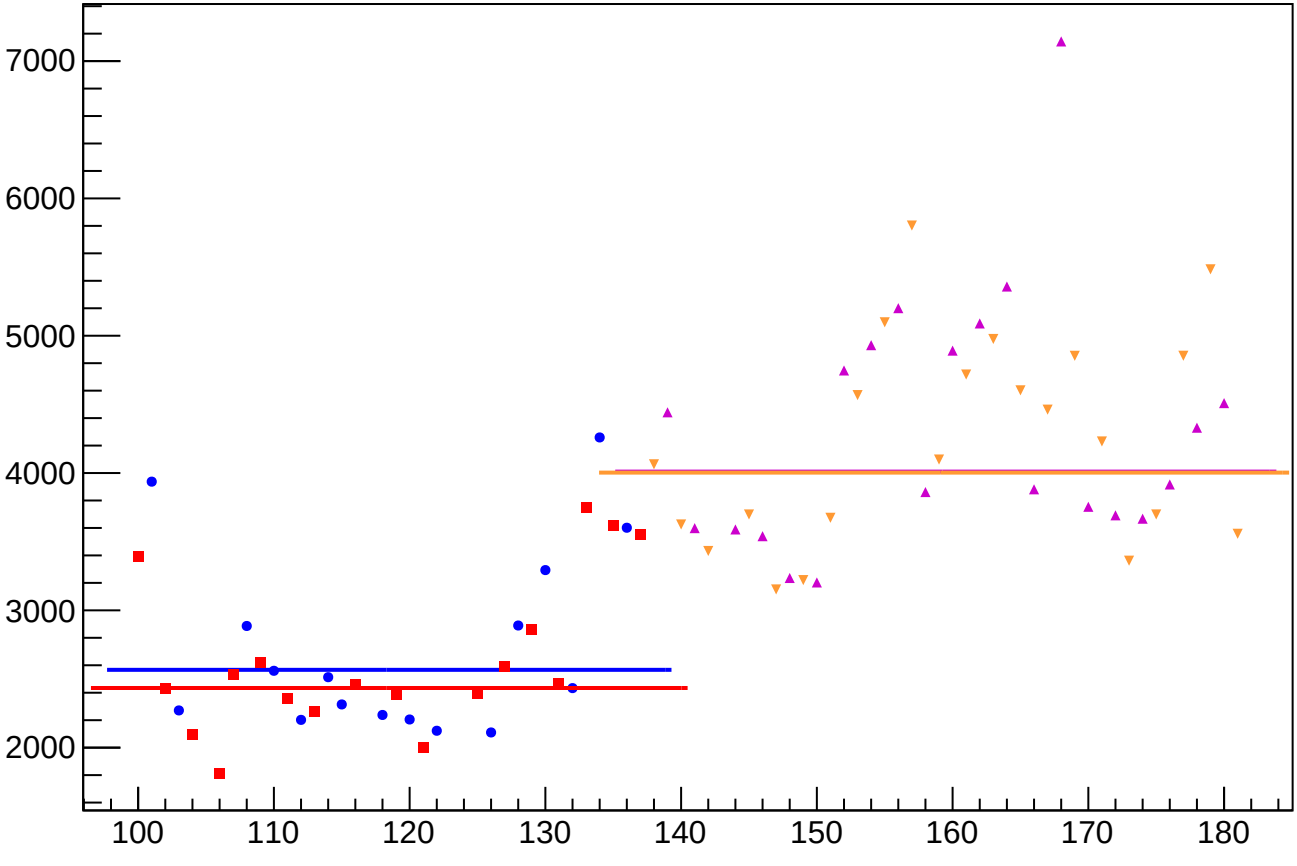
Right: 285.212+/-671.519 $\chi^2$/NDF: 32.1/33

In: 195.596+/-694.564 $\chi^2$/NDF:27.8/36

Out: 142.667+/-670.644 $\chi^2$/NDF:46.2/39

All: 168.204+/-482.452 $\chi^2$/NDF: 74.0/76

asym_usl_atl2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 2566.732+/-0.693 $\chi^2$/NDF: 665871.6/15

Left Out: 4003.141+/-0.691 $\chi^2$/NDF:993186.8/21

Right Out: 2434.430+/-0.652 $\chi^2$/NDF: 434078.9/17

Left In: 4010.408+/-0.696 $\chi^2$/NDF:1094844.5/20

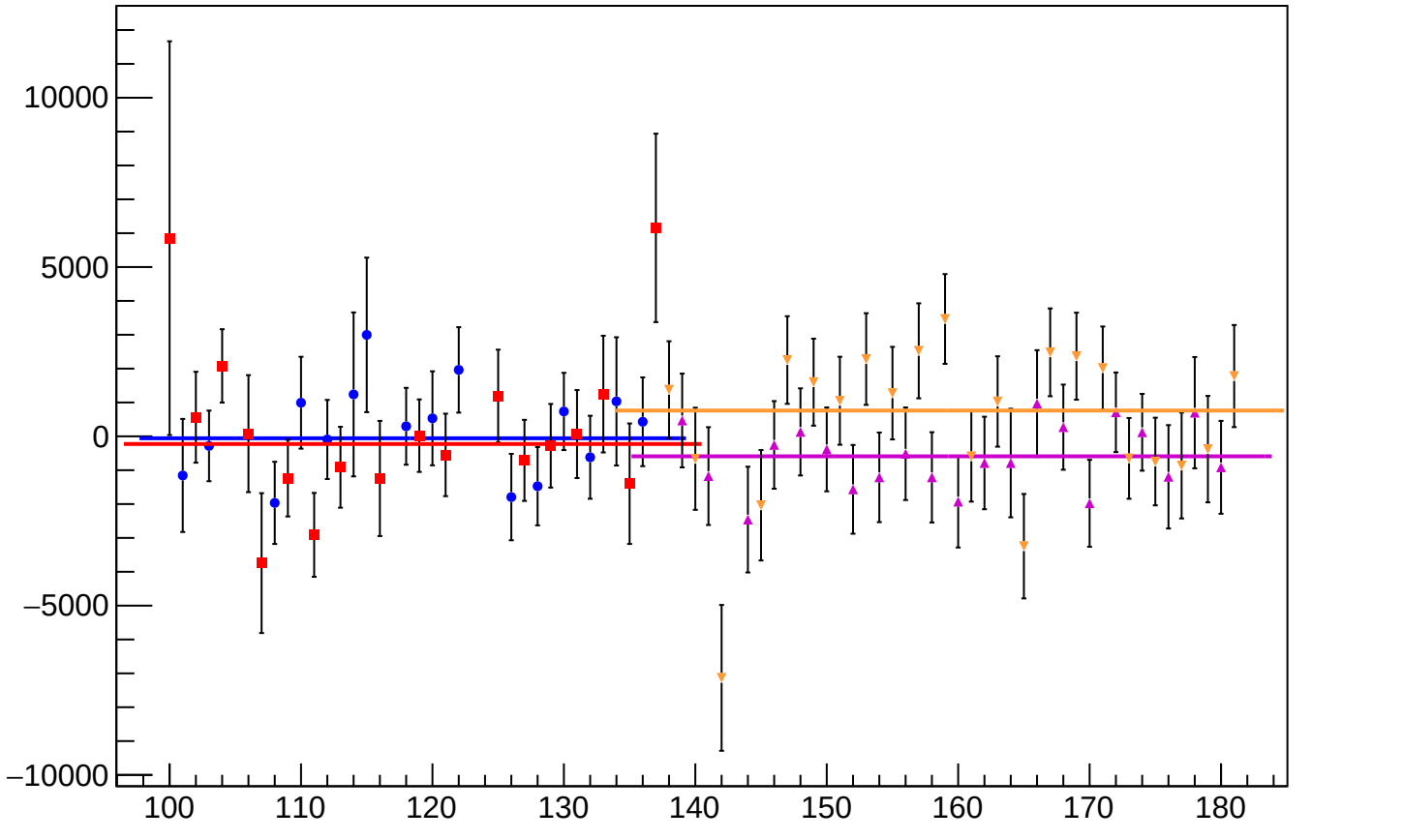
Left: 4006.747+/-0.490 $\chi^2$/NDF: 2088086.2/42

Right: 2496.568+/-0.475 $\chi^2$/NDF: 1119287.3/33

In: 3285.021+/-0.491 $\chi^2$/NDF:3920817.8/36

Out: 3173.373+/-0.474 $\chi^2$/NDF:4153816.0/39

All: 3227.241+/-0.341 $\chi^2$/NDF: 8101378.0/76




Right In: -57.208+/-330.088 $\chi^2$/NDF: 13.0/15

Left Out: 761.742+/-295.770 $\chi^2$/NDF:43.4/21

Right Out: -226.075+/-328.069 $\chi^2$/NDF: 22.9/17

Left In: -590.167+/-295.396 $\chi^2$/NDF:9.7/20

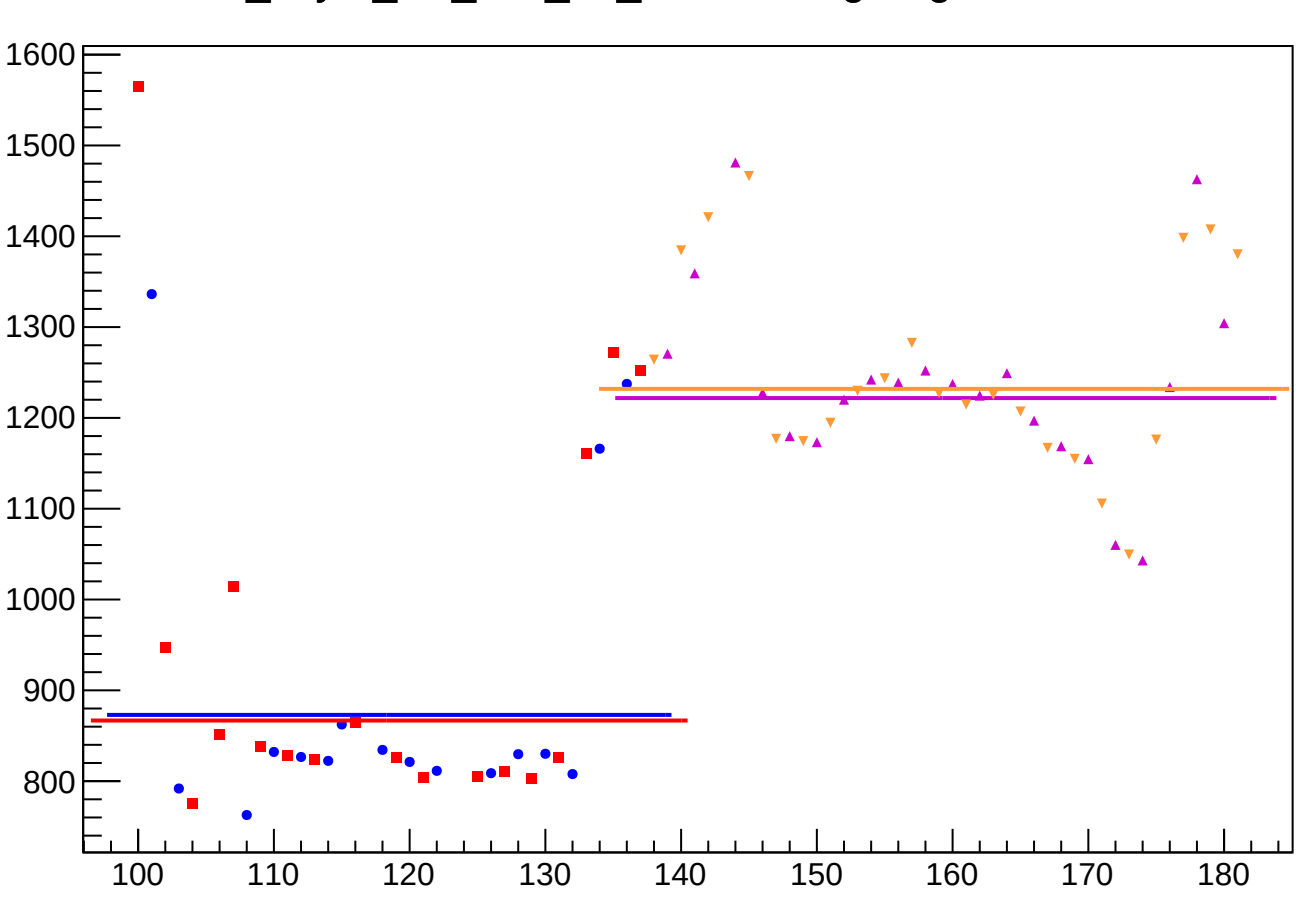
Left: 84.933+/-209.009 $\chi^2$/NDF: 63.5/42

Right: -142.159+/-232.690 $\chi^2$/NDF: 36.0/33

In: -353.156+/-220.124 $\chi^2$/NDF:24.1/36

Out: 318.840+/-219.675 $\chi^2$/NDF:71.3/39

All: -16.473+/-155.492 $\chi^2$/NDF: 100.1/76




Right In: 872.971+/-0.233 $\chi^2$/NDF: 417099.2/15

Left Out: 1231.951+/-0.209 $\chi^2$/NDF:241942.2/21

Right Out: 866.772+/-0.232 $\chi^2$/NDF: 290386.4/17

Left In: 1221.823+/-0.209 $\chi^2$/NDF:231121.0/20

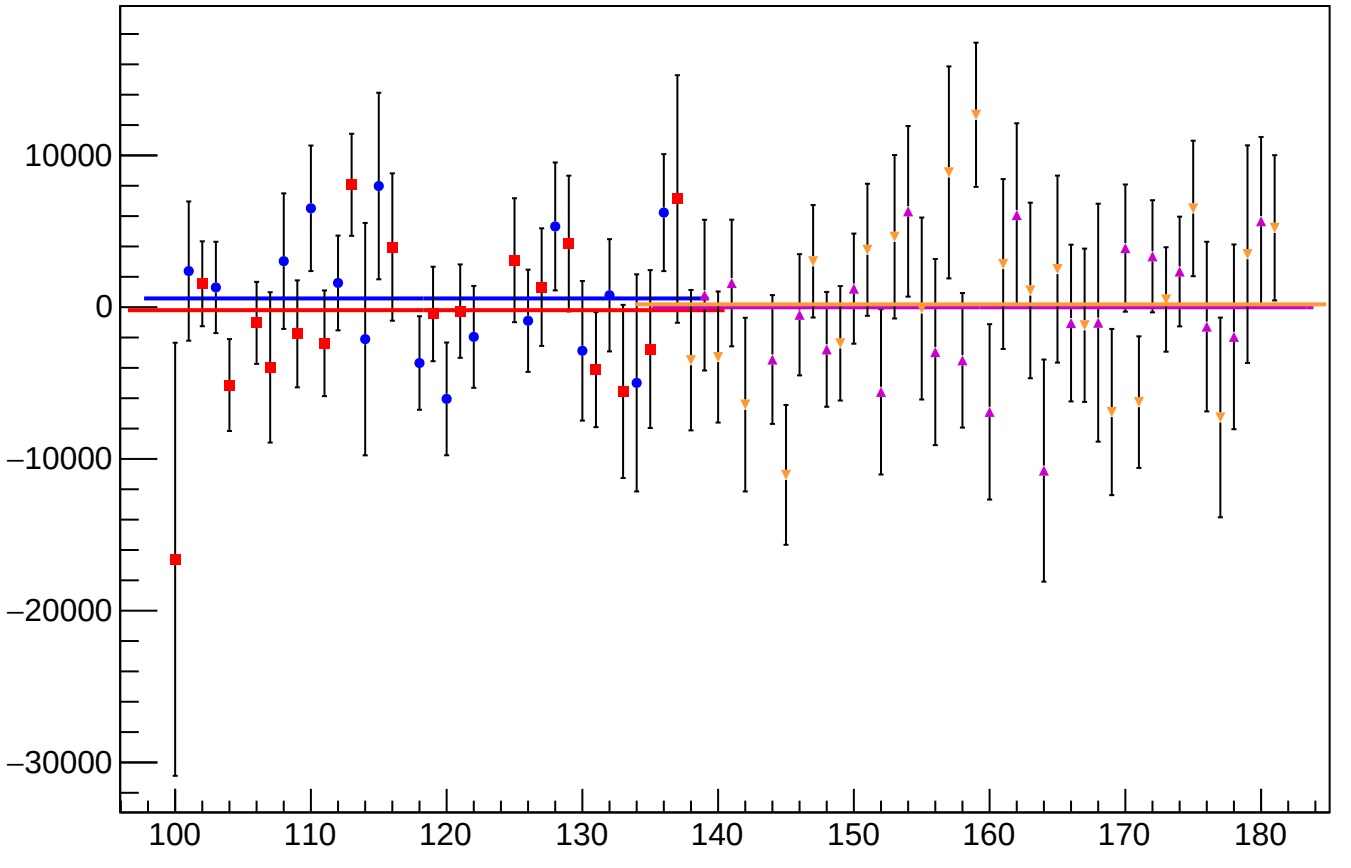
Left: 1226.881+/-0.148 $\chi^2$/NDF: 474237.2/42

Right: 869.850+/-0.164 $\chi^2$/NDF: 707840.8/33

In: 1066.686+/-0.156 $\chi^2$/NDF:1888656.0/36

Out: 1068.039+/-0.155 $\chi^2$/NDF:1900805.6/39

All: 1067.364+/-0.110 $\chi^2$/NDF: 3789499.4/76




Right In: 575.271+/-984.888 $\chi^2$/NDF: 14.7/15

Left Out: 186.378+/-1033.807 $\chi^2$/NDF:28.4/21

Right Out: -197.953+/-894.121 $\chi^2$/NDF: 17.2/17

Left In: -7.510+/-1035.489 $\chi^2$/NDF:12.6/20

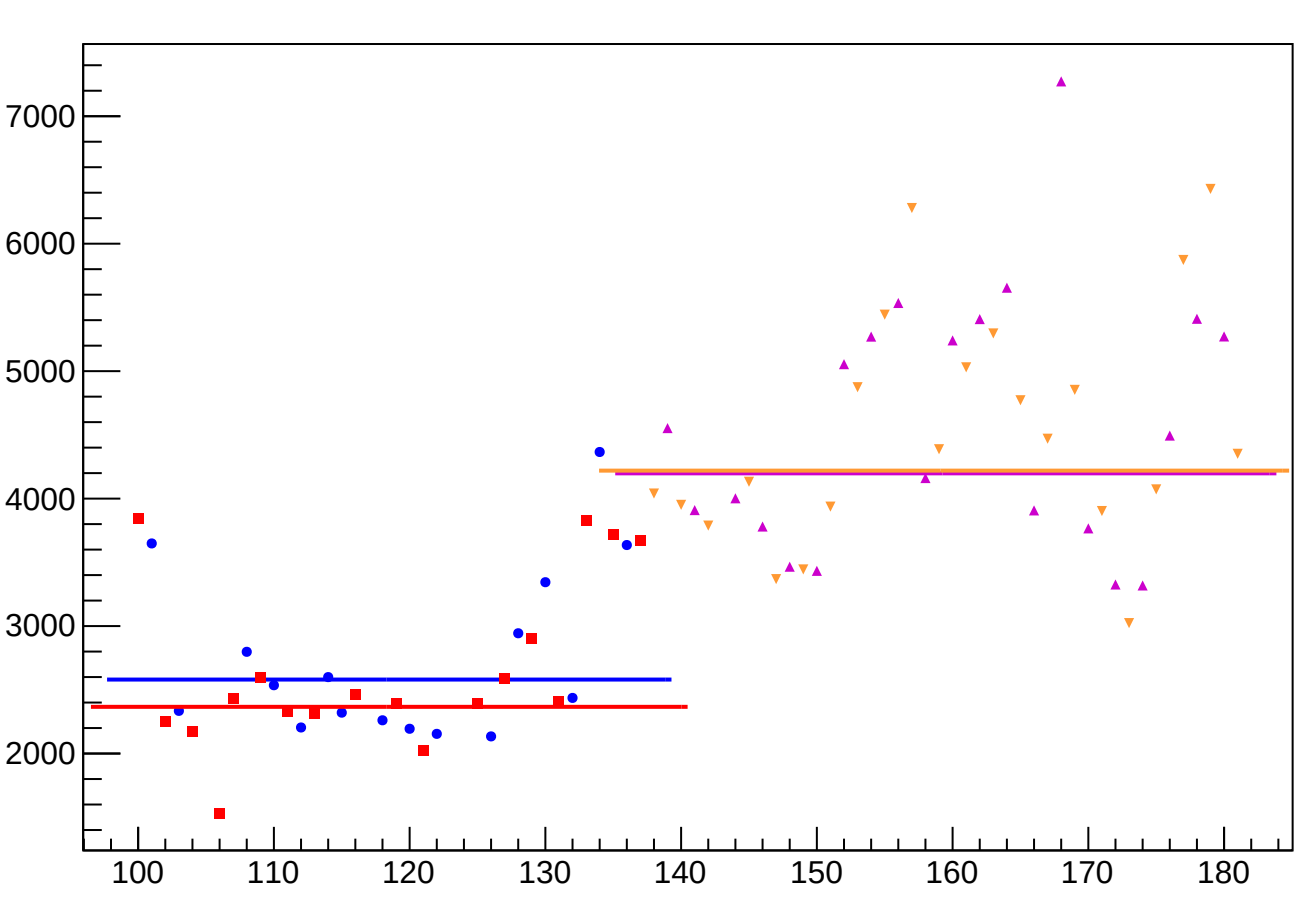
Left: 89.591+/-731.606 $\chi^2$/NDF: 41.1/42

Right: 151.395+/-662.008 $\chi^2$/NDF: 32.2/33

In: 298.467+/-713.639 $\chi^2$/NDF:27.5/36

Out: -33.489+/-676.275 $\chi^2$/NDF:45.7/39

All: 123.572+/-490.876 $\chi^2$/NDF: 73.3/76




Right In: 2580.377+/-0.696 $\chi^2$/NDF: 617156.1/15

Left Out: 4219.565+/-0.731 $\chi^2$/NDF:1241874.7/21

Right Out: 2366.412+/-0.632 $\chi^2$/NDF: 611695.1/17

Left In: 4198.229+/-0.732 $\chi^2$/NDF:1376310.3/20

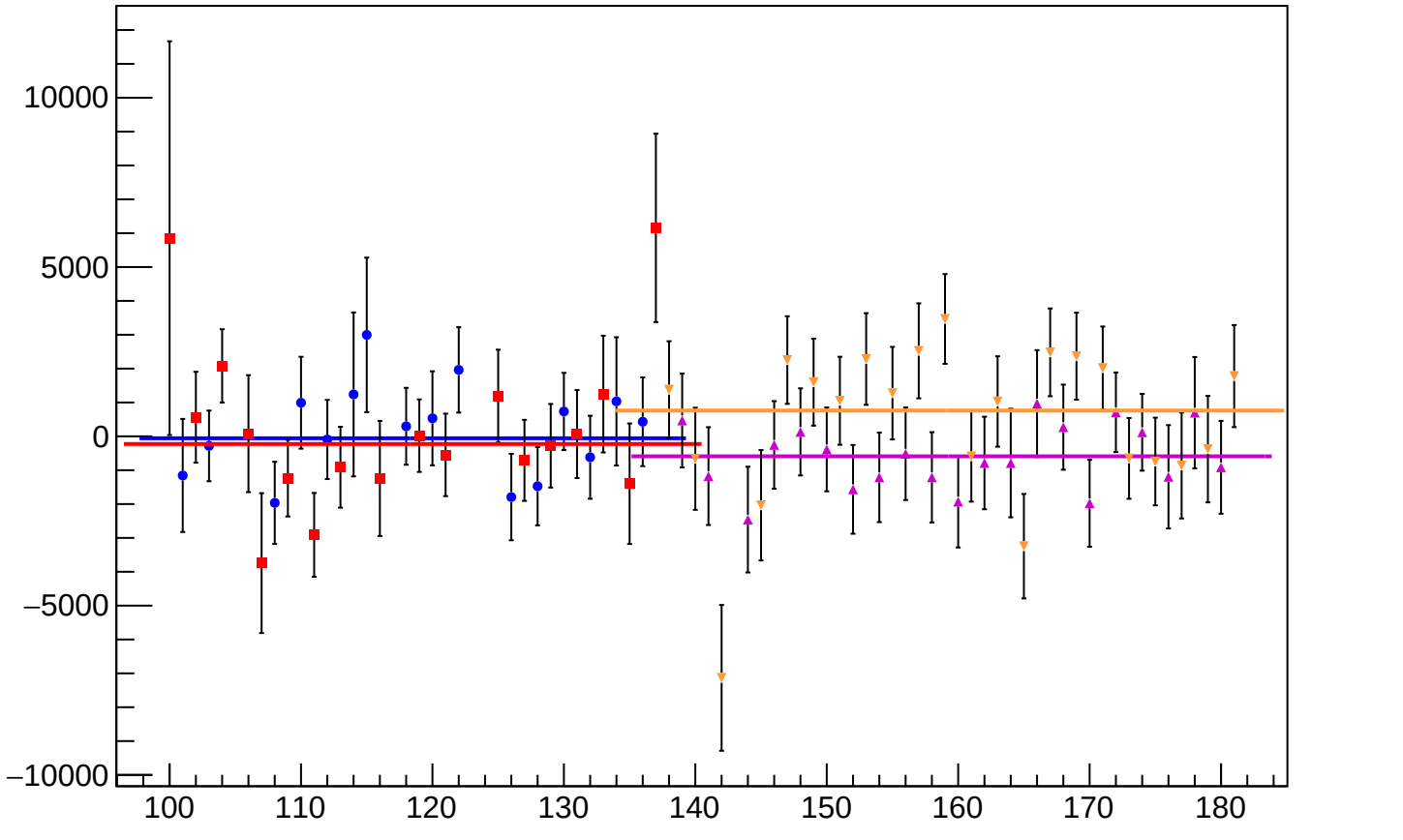
Left: 4208.915+/-0.517 $\chi^2$/NDF: 2618610.2/42

Right: 2463.083+/-0.468 $\chi^2$/NDF: 1280596.8/33

In: 3348.809+/-0.505 $\chi^2$/NDF:4556773.0/36

Out: 3159.422+/-0.478 $\chi^2$/NDF:5530006.5/39

All: 3249.028+/-0.347 $\chi^2$/NDF: 10160990.8/7




Right In: -57.211+/-330.088 $\chi^2$/NDF: 13.0/15

Left Out: 761.743+/-295.771 $\chi^2$/NDF:43.4/21

Right Out: -226.078+/-328.069 $\chi^2$/NDF: 22.9/17

Left In: -590.165+/-295.397 $\chi^2$/NDF:9.7/20

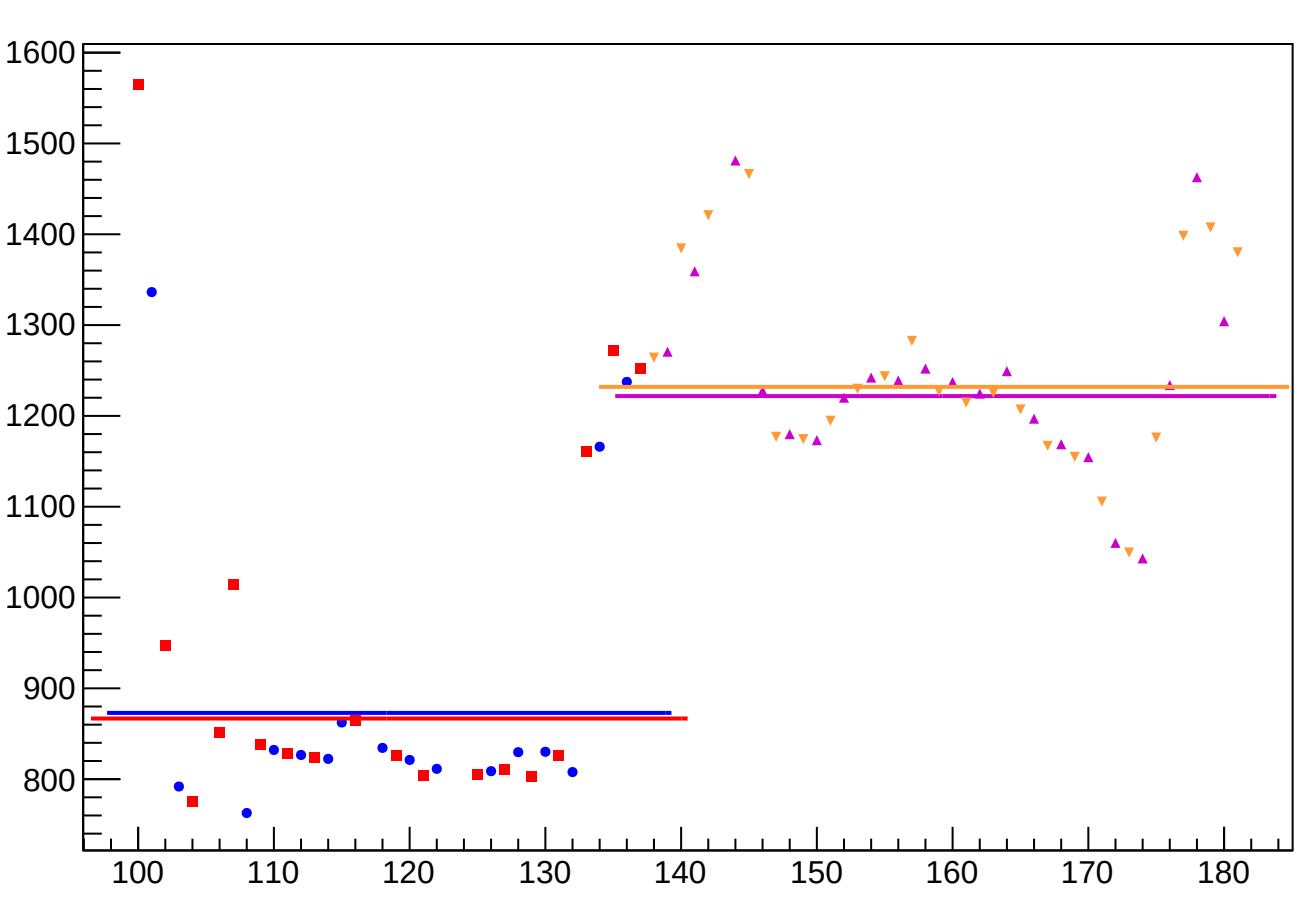
Left: 84.934+/-209.009 $\chi^2$/NDF: 63.5/42

Right: -142.162+/-232.690 $\chi^2$/NDF: 36.0/33

In: -353.156+/-220.124 $\chi^2$/NDF:24.1/36

Out: 318.839+/-219.675 $\chi^2$/NDF:71.3/39

All: -16.473+/-155.492 $\chi^2$/NDF: 100.1/76




Right In: 872.972+/-0.233 $\chi^2$/NDF: 417098.9/15

Left Out: 1231.952+/-0.209 $\chi^2$/NDF:241954.8/21

Right Out: 866.772+/-0.232 $\chi^2$/NDF: 290386.6/17

Left In: 1221.824+/-0.209 $\chi^2$/NDF:231132.1/20

Left: 1226.881+/-0.148 $\chi^2$/NDF: 474261.0/42

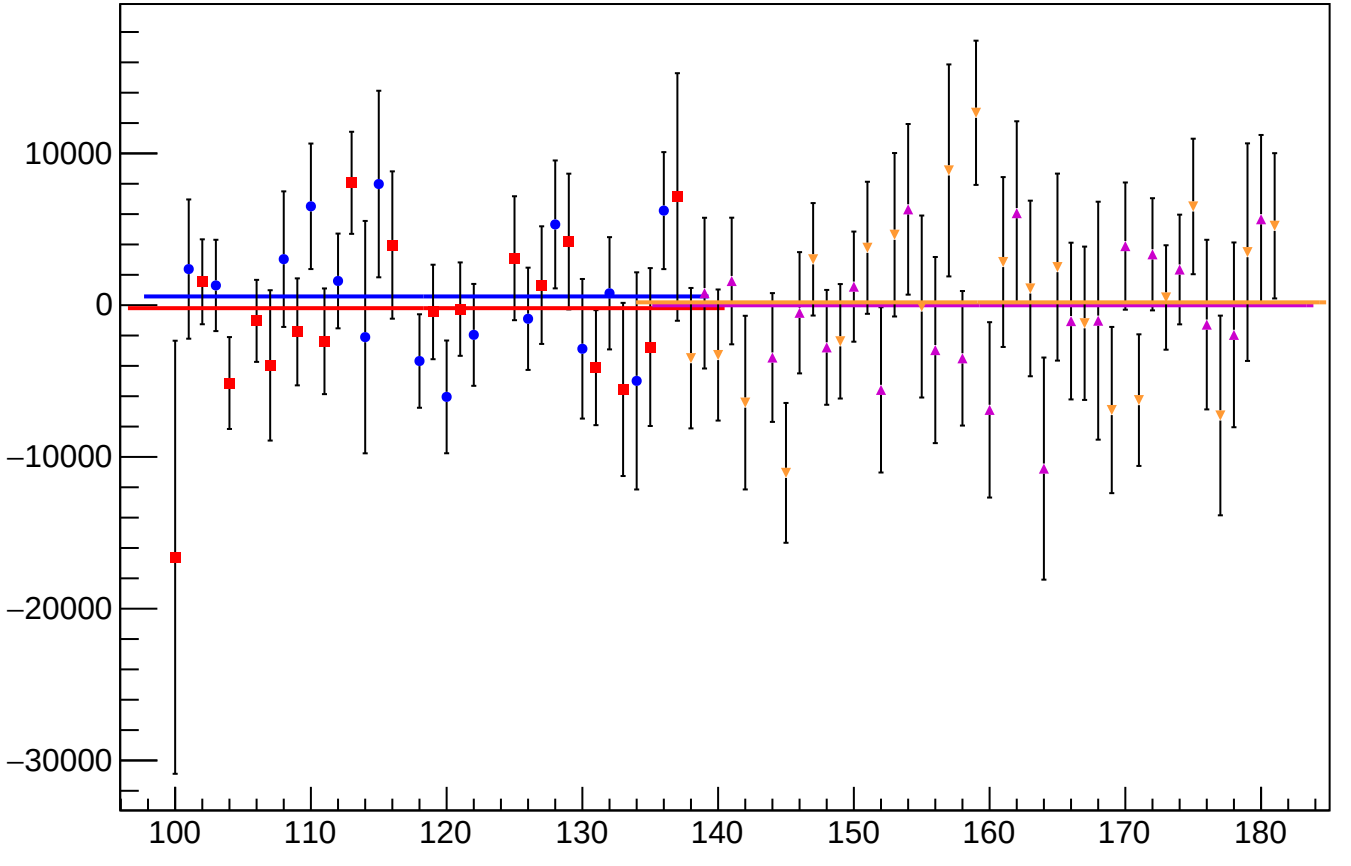
Right: 869.850+/-0.164 $\chi^2$/NDF: 707840.8/33

In: 1066.687+/-0.156 $\chi^2$/NDF:1888671.8/36

Out: 1068.039+/-0.155 $\chi^2$/NDF:1900823.1/39

All: 1067.365+/-0.110 $\chi^2$/NDF: 3789532.8/76

asym_usl_atl2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 575.266+/-984.885 $\chi^2$/NDF: 14.7/15

Left Out: 186.379+/-1033.809 $\chi^2$/NDF:28.4/21

Right Out: -197.955+/-894.119 $\chi^2$/NDF: 17.2/17

Left In: -7.511+/-1035.491 $\chi^2$/NDF:12.6/20

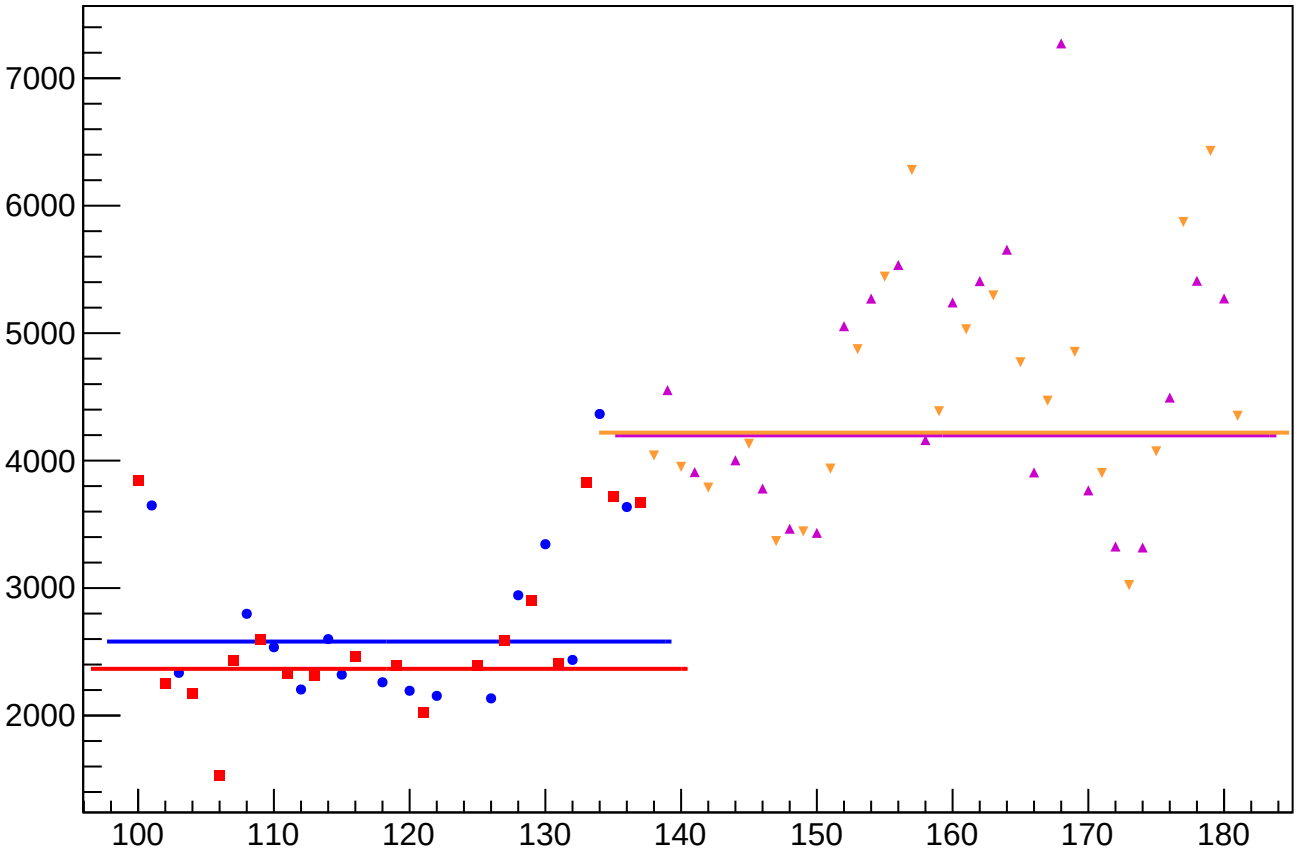
Left: 89.592+/-731.607 $\chi^2$/NDF: 41.1/42

Right: 151.392+/-662.006 $\chi^2$/NDF: 32.2/33

In: 298.466+/-713.639 $\chi^2$/NDF:27.5/36

Out: -33.490+/-676.274 $\chi^2$/NDF:45.7/39

All: 123.571+/-490.876 $\chi^2$/NDF: 73.3/76




Right In: 2580.368+/-0.696 $\chi^2$/NDF: 617163.3/15

Left Out: 4219.574+/-0.731 $\chi^2$/NDF:1241873.7/21

Right Out: 2366.405+/-0.632 $\chi^2$/NDF: 611698.8/17

Left In: 4198.237+/-0.732 $\chi^2$/NDF:1376311.0/20

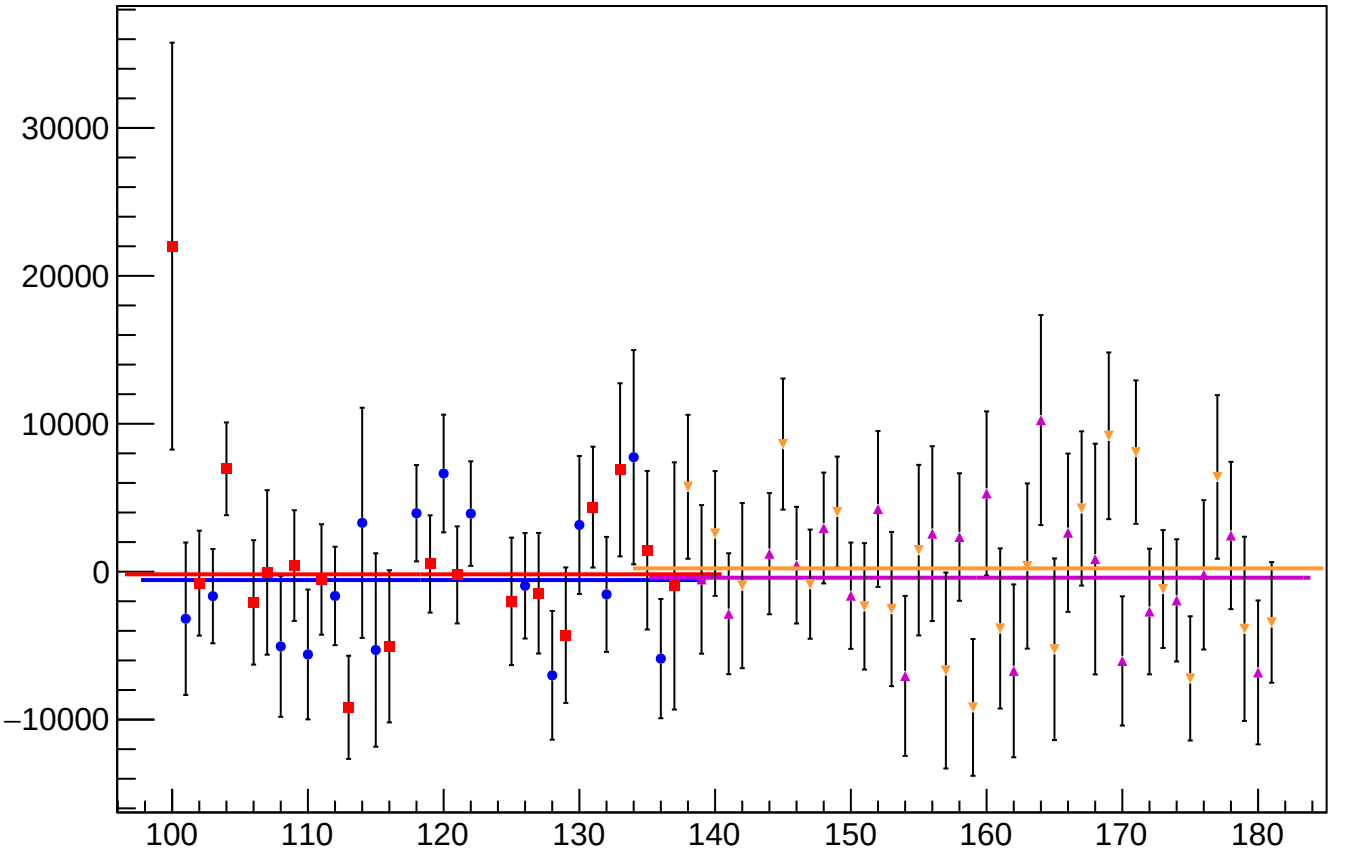
Left: 4208.923+/-0.517 $\chi^2$/NDF: 2618609.9/42

Right: 2463.075+/-0.468 $\chi^2$/NDF: 1280607.2/33

In: 3348.804+/-0.505 $\chi^2$/NDF:4556833.9/36

Out: 3159.417+/-0.478 $\chi^2$/NDF:5530069.1/39

All: 3249.023+/-0.347 $\chi^2$/NDF: 10161114.3/7




Right In: -566.096+/-1040.314 $\chi^2$/NDF: 16.2/15

Left Out: 225.793+/-1021.100 $\chi^2$/NDF:25.1/21

Right Out: -178.586+/-988.392 $\chi^2$/NDF: 19.5/17

Left In: -407.971+/-1028.277 $\chi^2$/NDF:13.4/20

Left: -88.869+/-724.551 $\chi^2$/NDF: 38.7/42

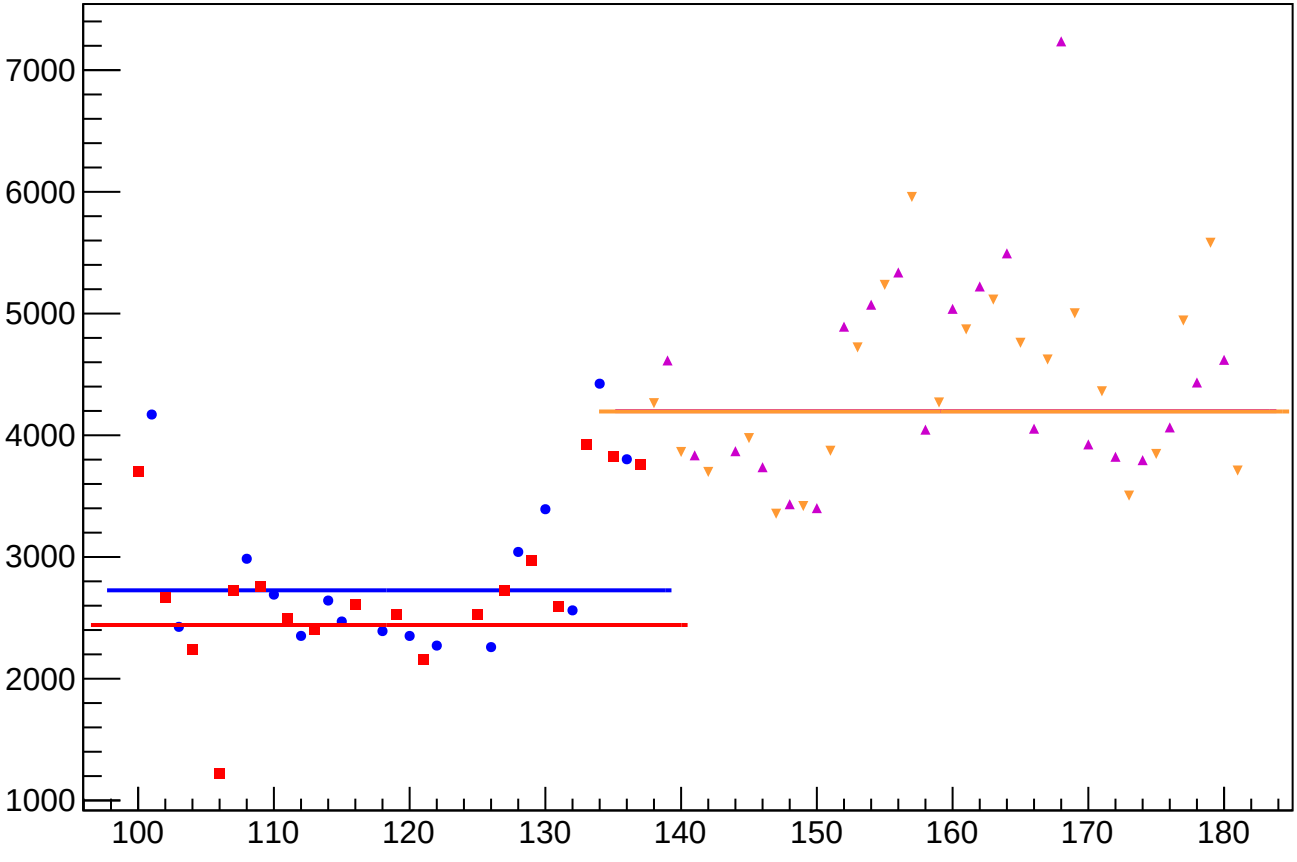
Right: -362.430+/-716.551 $\chi^2$/NDF: 35.8/33

In: -486.113+/-731.320 $\chi^2$/NDF:29.6/36

Out: 17.023+/-710.181 $\chi^2$/NDF:44.7/39

All: -227.168+/-509.483 $\chi^2$/NDF: 74.6/76

# asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 2726.231+/-0.736 $\chi^2$/NDF: 623079.8/15

Left Out: 4195.467+/-0.722 $\chi^2$/NDF:859012.7/21

Right Out: 2441.363+/-0.667 $\chi^2$/NDF: 891132.7/17

Left In: 4198.548+/-0.727 $\chi^2$/NDF:957229.7/20

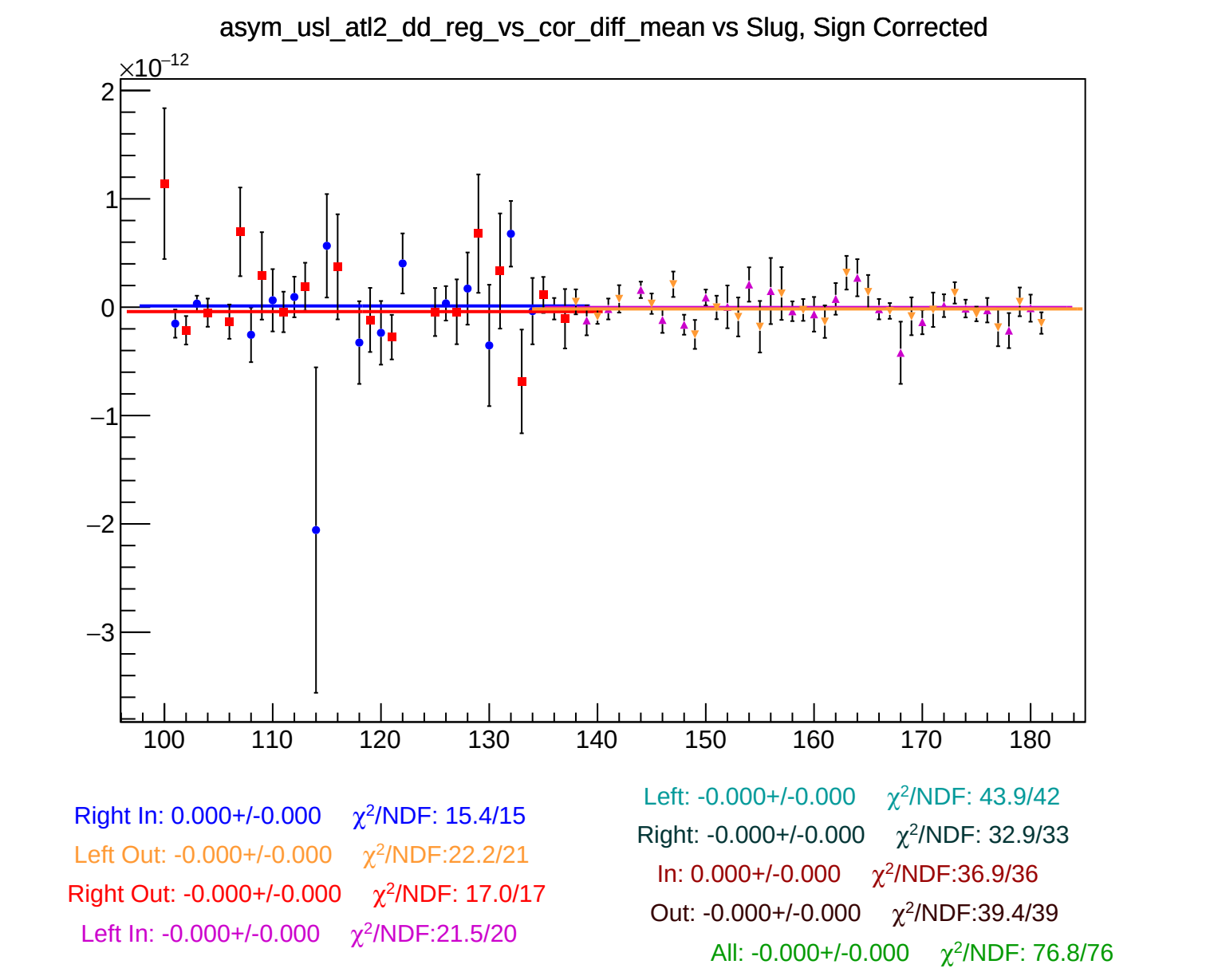
Left: 4196.997+/-0.512 $\chi^2$/NDF: 1816251.5/42

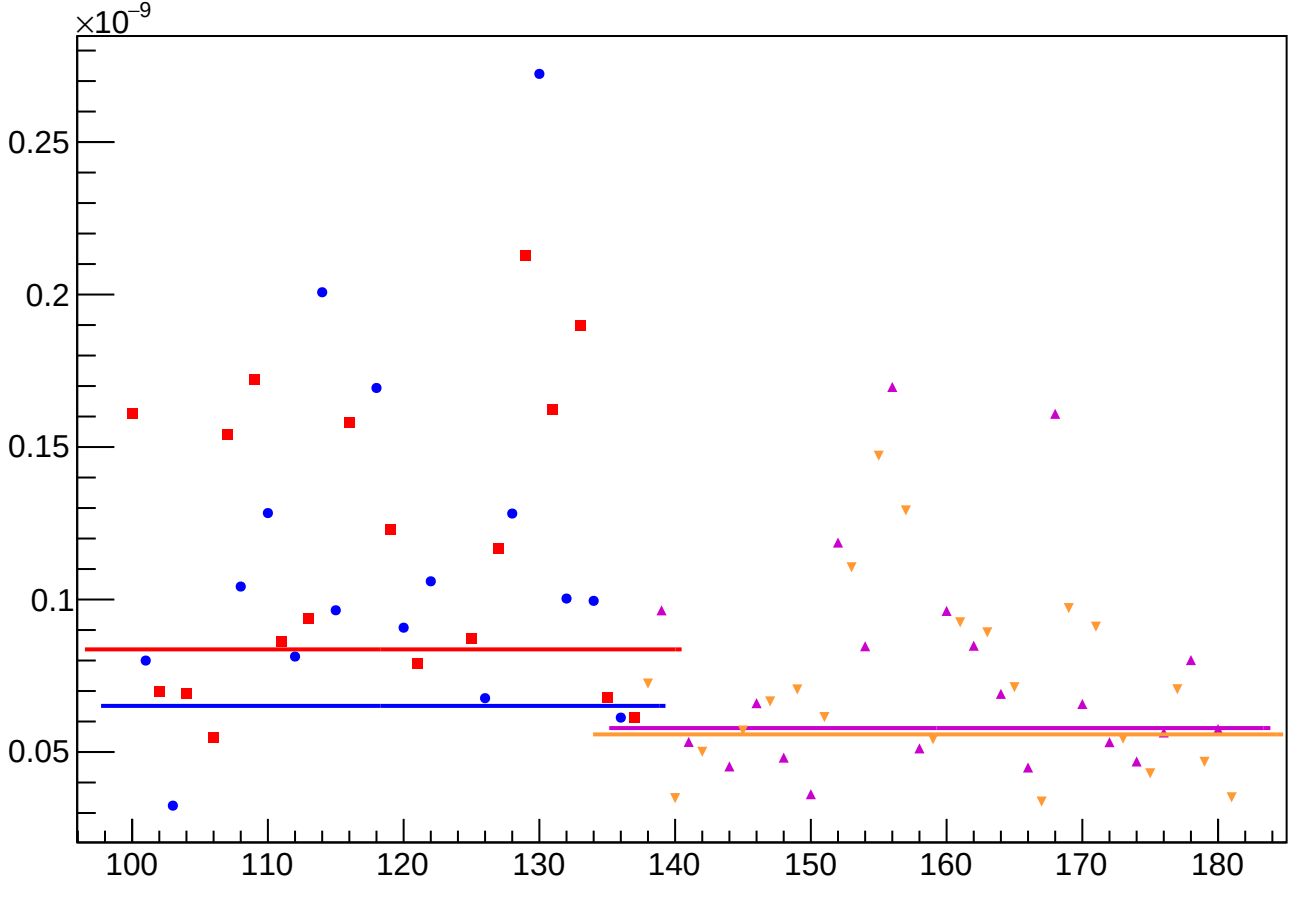
Right: 2569.883+/-0.494 $\chi^2$/NDF: 1596520.0/33

In: 3470.956+/-0.517 $\chi^2$/NDF:3606589.2/36

Out: 3248.957+/-0.490 $\chi^2$/NDF:4934883.8/39

All: 3353.964+/-0.356 $\chi^2$/NDF: 8638595.8/76


asym_usl_atl2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 15.4/15
Left Out: -0.000+/-0.000 χ²/NDF:22.2/21
Right Out: -0.000+/-0.000 χ²/NDF: 17.0/17
Left In: -0.000+/-0.000 χ²/NDF:21.5/20
Left: -0.000+/-0.000 χ²/NDF: 43.9/42
Right: -0.000+/-0.000 χ²/NDF: 32.9/33
In: 0.000+/-0.000 χ²/NDF:36.9/36
Out: -0.000+/-0.000 χ²/NDF:39.4/39
All: -0.000+/-0.000 χ²/NDF: 76.8/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1222613.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1761580.6/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 691494.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1525939.4/20

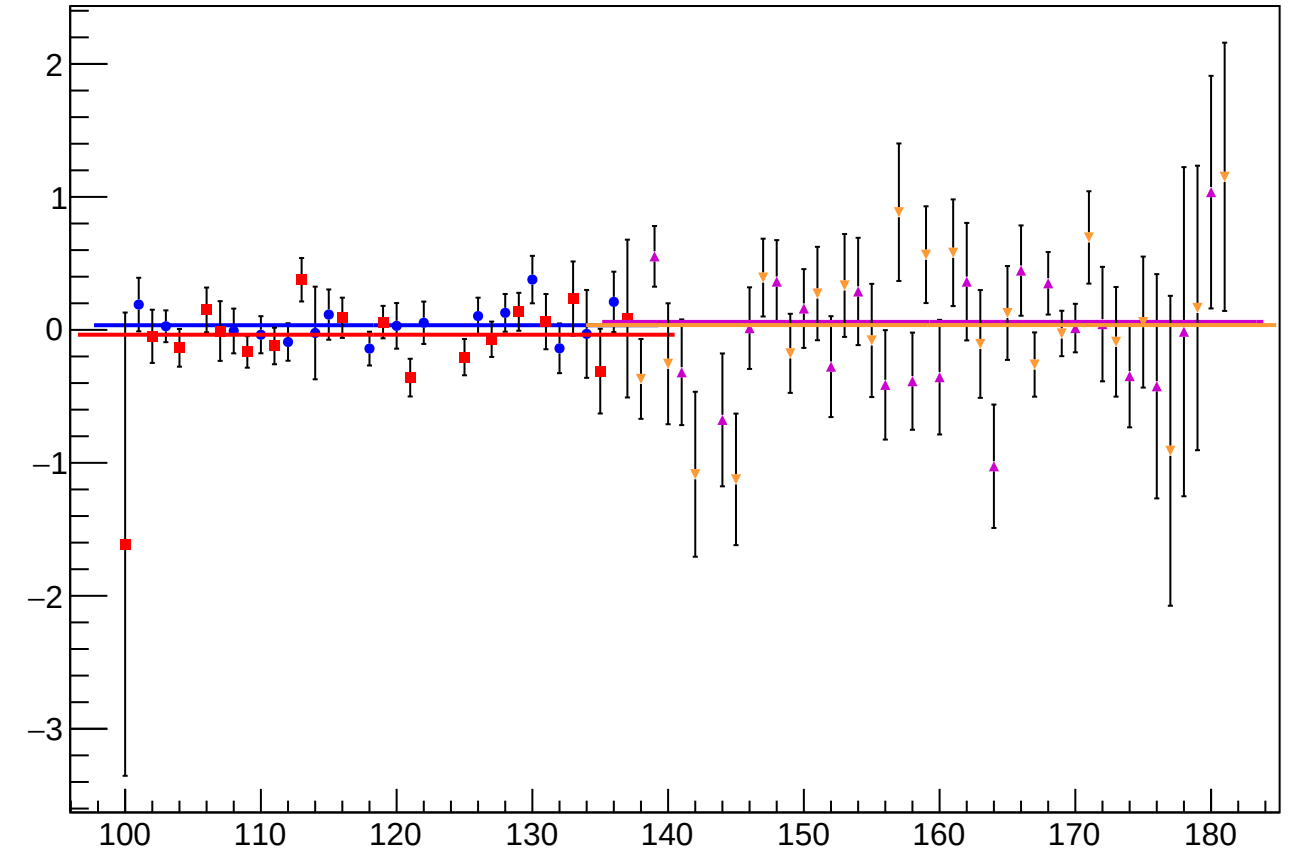
Left: 0.000+/-0.000 $\chi^2$/NDF: 3294894.1/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 2057625.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:2790019.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:2908493.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 5700014.0/76




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: 0.036+/-0.077 $\chi^2$/NDF:28.2/21

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.060+/-0.075 $\chi^2$/NDF:25.2/20

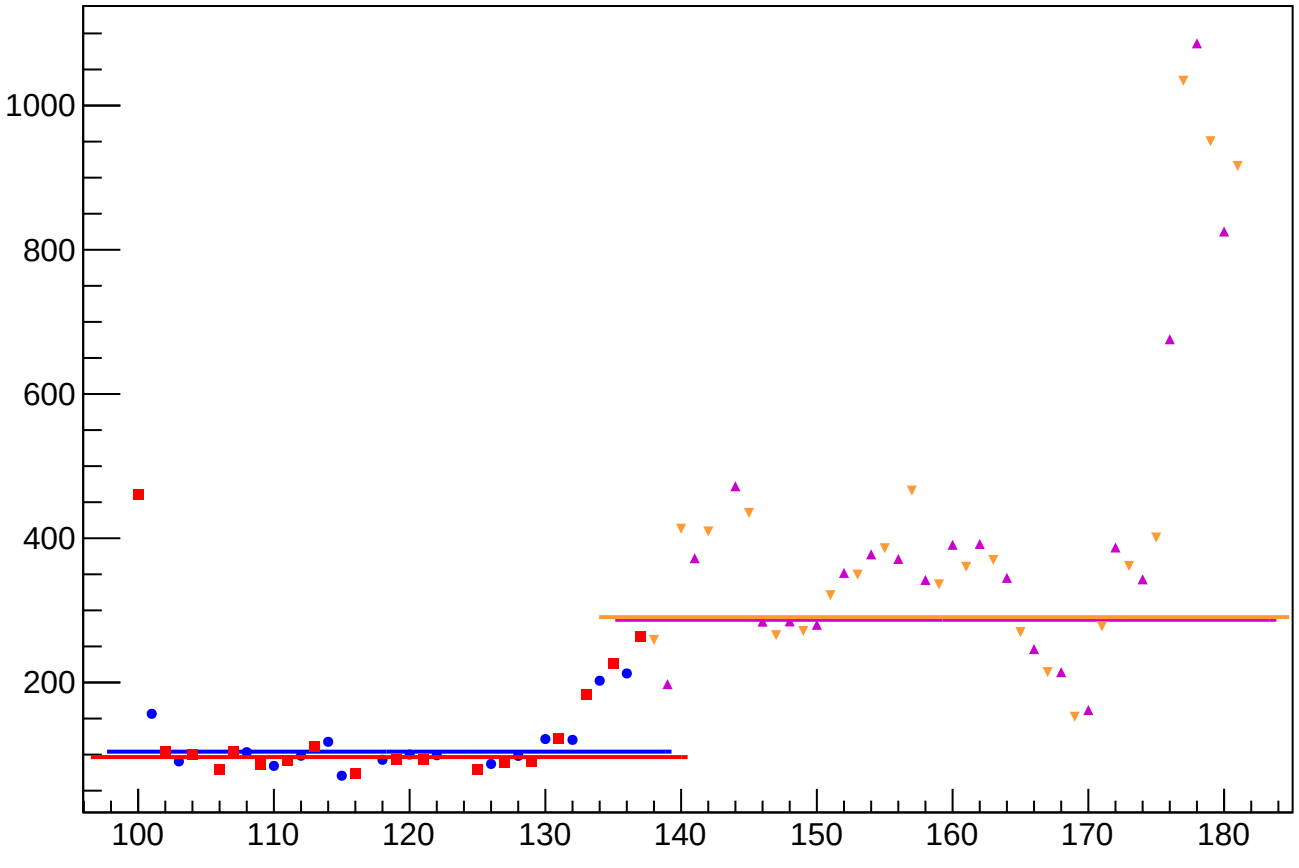
Left: 0.048+/-0.054 $\chi^2$/NDF: 53.5/42

Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.041+/-0.036 $\chi^2$/NDF:35.0/36

Out: -0.022+/-0.035 $\chi^2$/NDF:51.0/39

All: 0.008+/-0.025 $\chi^2$/NDF: 87.6/76




Right In: 104.099+/-0.029 $\chi^2$/NDF: 989856.1/15

Left Out: 290.632+/-0.054 $\chi^2$/NDF:5016164.7/21

Right Out: 96.569+/-0.028 $\chi^2$/NDF: 955547.2/17

Left In: 286.964+/-0.053 $\chi^2$/NDF:4552022.9/20

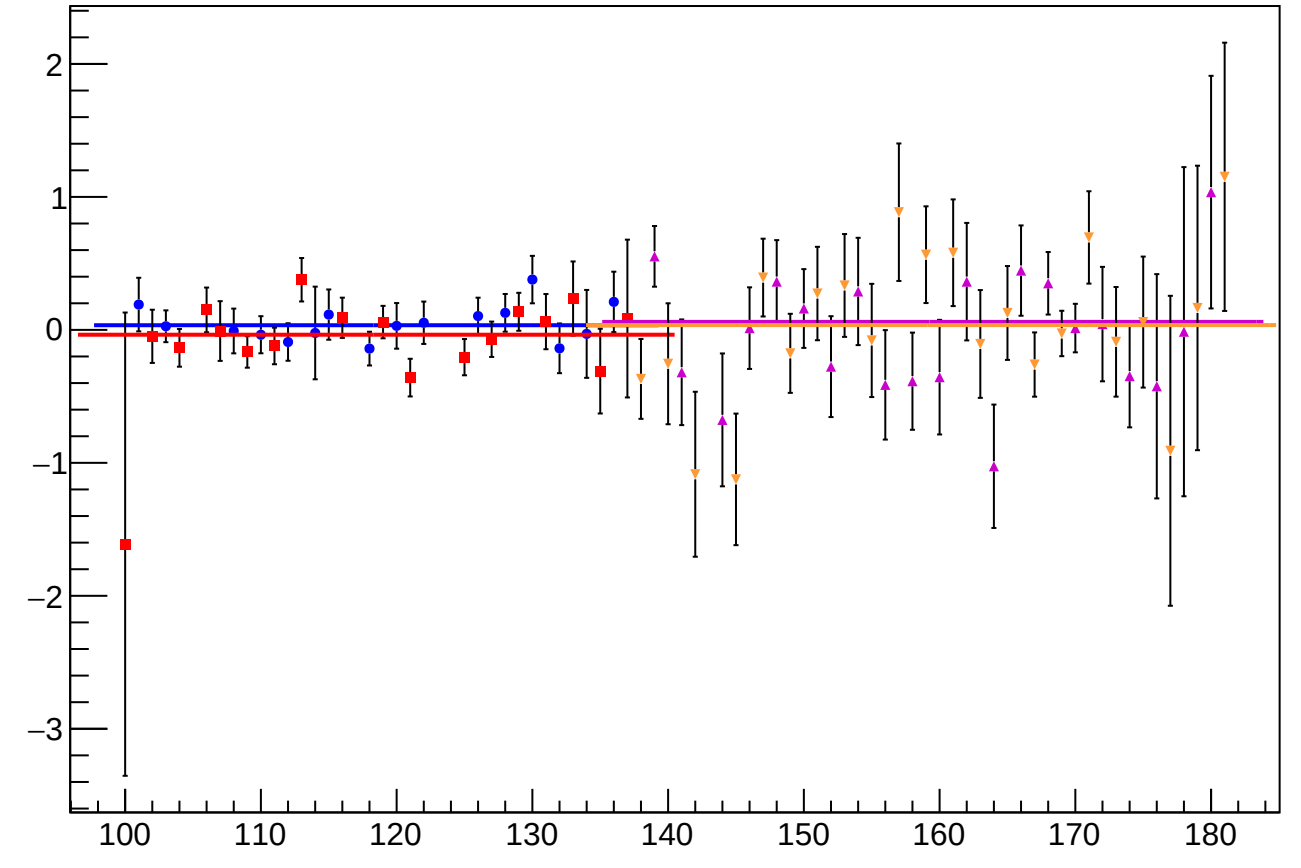
Left: 288.767+/-0.038 $\chi^2$/NDF: 9570511.9/42

Right: 100.134+/-0.020 $\chi^2$/NDF: 1980876.5/33

In: 145.851+/-0.025 $\chi^2$/NDF:14612041.4/36

Out: 136.250+/-0.025 $\chi^2$/NDF:16149566.0/39

All: 140.867+/-0.018 $\chi^2$/NDF: 30835268.0/76




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: 0.036+/-0.077 $\chi^2$/NDF:28.2/21

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.060+/-0.075 $\chi^2$/NDF:25.2/20

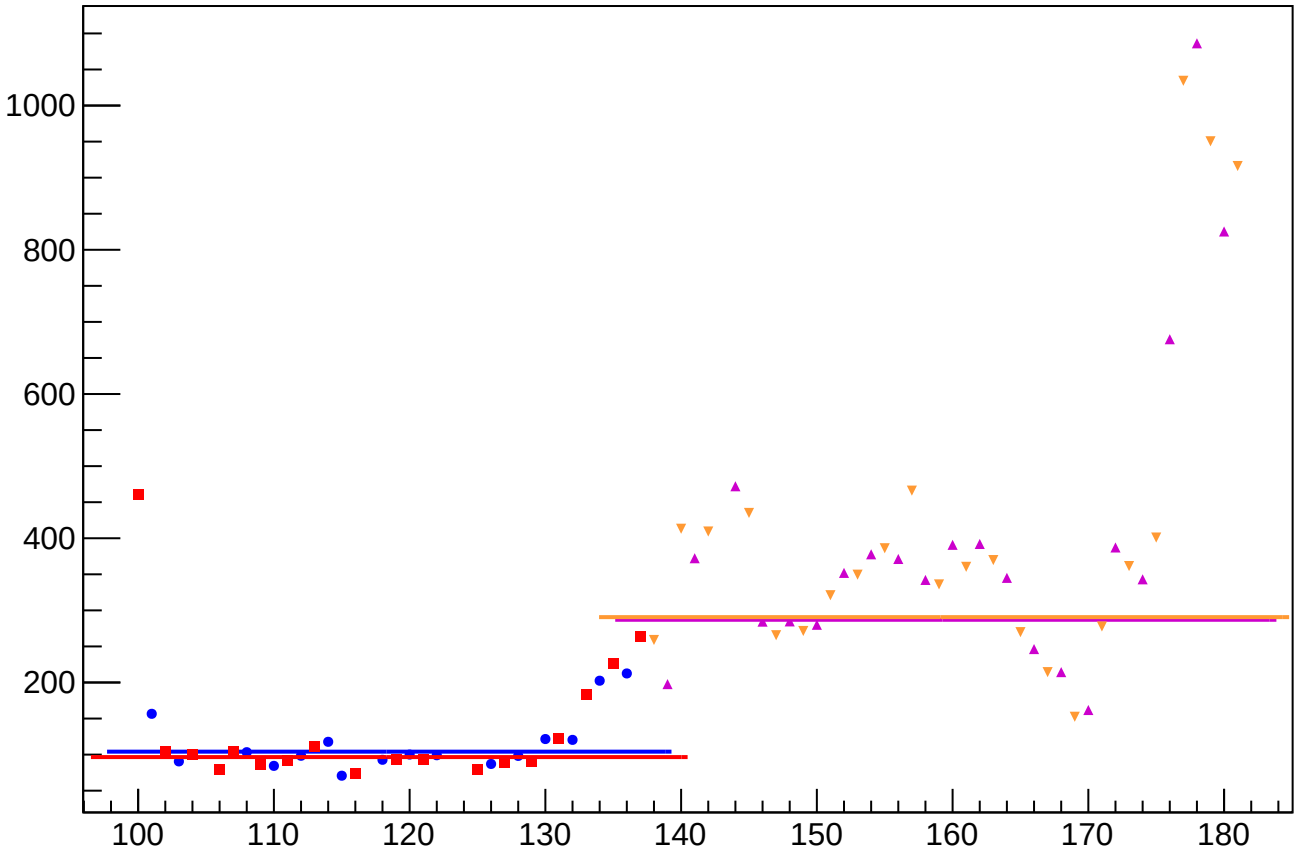
Left: 0.048+/-0.054 $\chi^2$/NDF: 53.5/42

Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.041+/-0.036 $\chi^2$/NDF:35.0/36

Out: -0.022+/-0.035 $\chi^2$/NDF:51.0/39

All: 0.008+/-0.025 $\chi^2$/NDF: 87.6/76




Right In: 104.099+/-0.029 $\chi^2$/NDF: 989856.1/15

Left Out: 290.632+/-0.054 $\chi^2$/NDF:5016164.7/21

Right Out: 96.569+/-0.028 $\chi^2$/NDF: 955547.2/17

Left In: 286.964+/-0.053 $\chi^2$/NDF:4552022.9/20

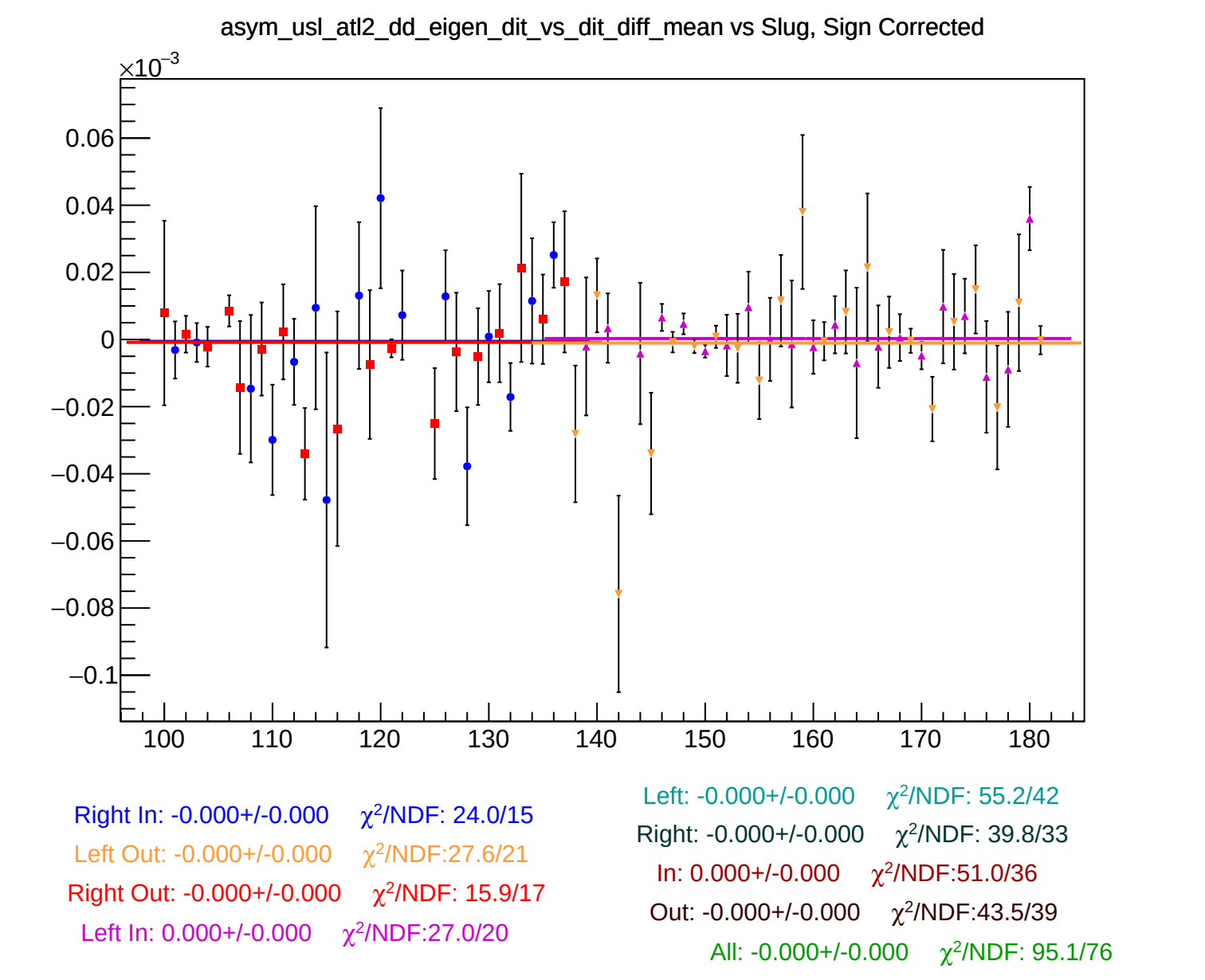
Left: 288.767+/-0.038 $\chi^2$/NDF: 9570511.9/42

Right: 100.134+/-0.020 $\chi^2$/NDF: 1980876.5/33

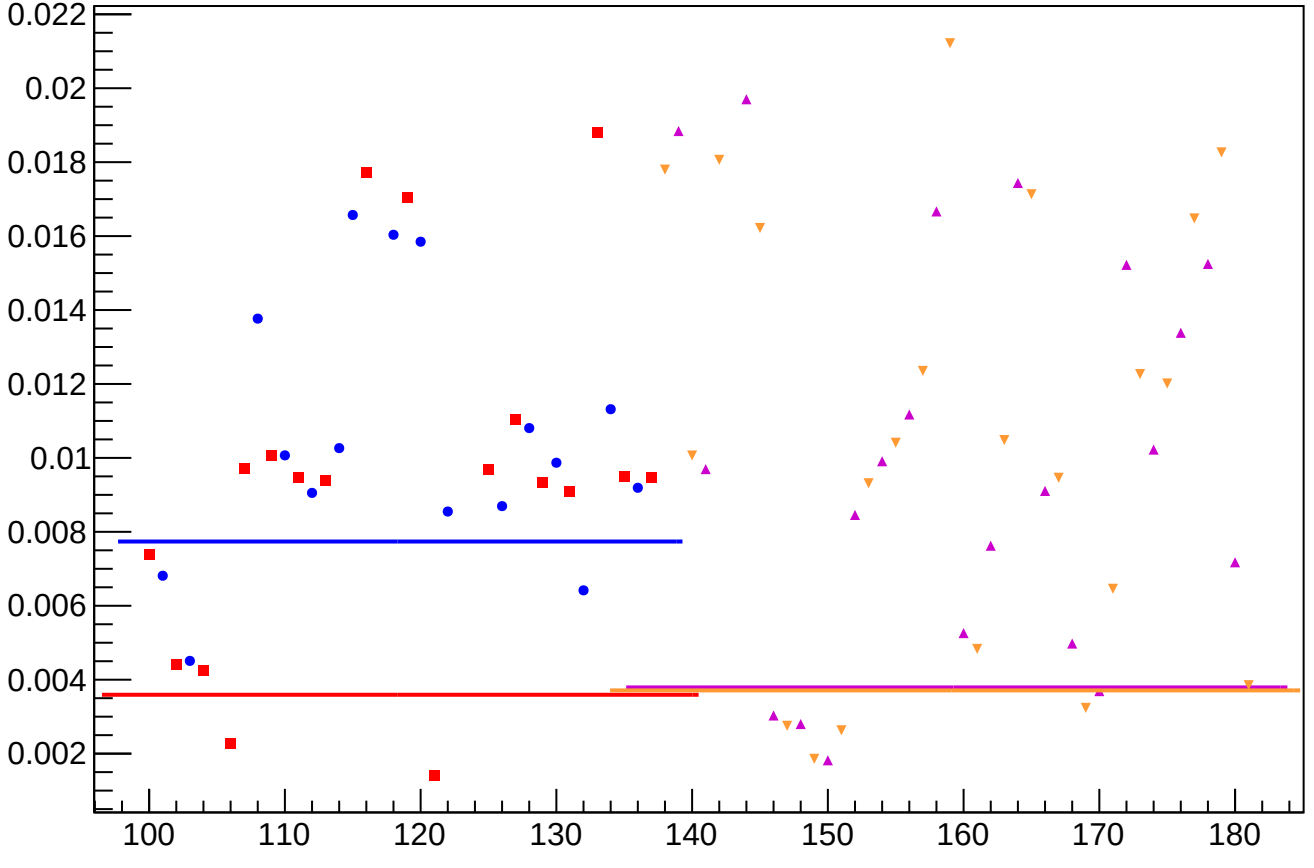
In: 145.851+/-0.025 $\chi^2$/NDF:14612041.4/36

Out: 136.250+/-0.025 $\chi^2$/NDF:16149566.0/39

All: 140.867+/-0.018 $\chi^2$/NDF: 30835268.0/76


asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 24.0/15
Left Out: -0.000+/-0.000 χ²/NDF:27.6/21
Right Out: -0.000+/-0.000 χ²/NDF: 15.9/17
Left In: 0.000+/-0.000 χ²/NDF:27.0/20
Left: -0.000+/-0.000 χ²/NDF: 55.2/42
Right: -0.000+/-0.000 χ²/NDF: 39.8/33
In: 0.000+/-0.000 χ²/NDF:51.0/36
Out: -0.000+/-0.000 χ²/NDF:43.5/39
All: -0.000+/-0.000 χ²/NDF: 95.1/76

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1701473.5/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:14074184.2/21

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 6364883.4/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:13120593.9/20

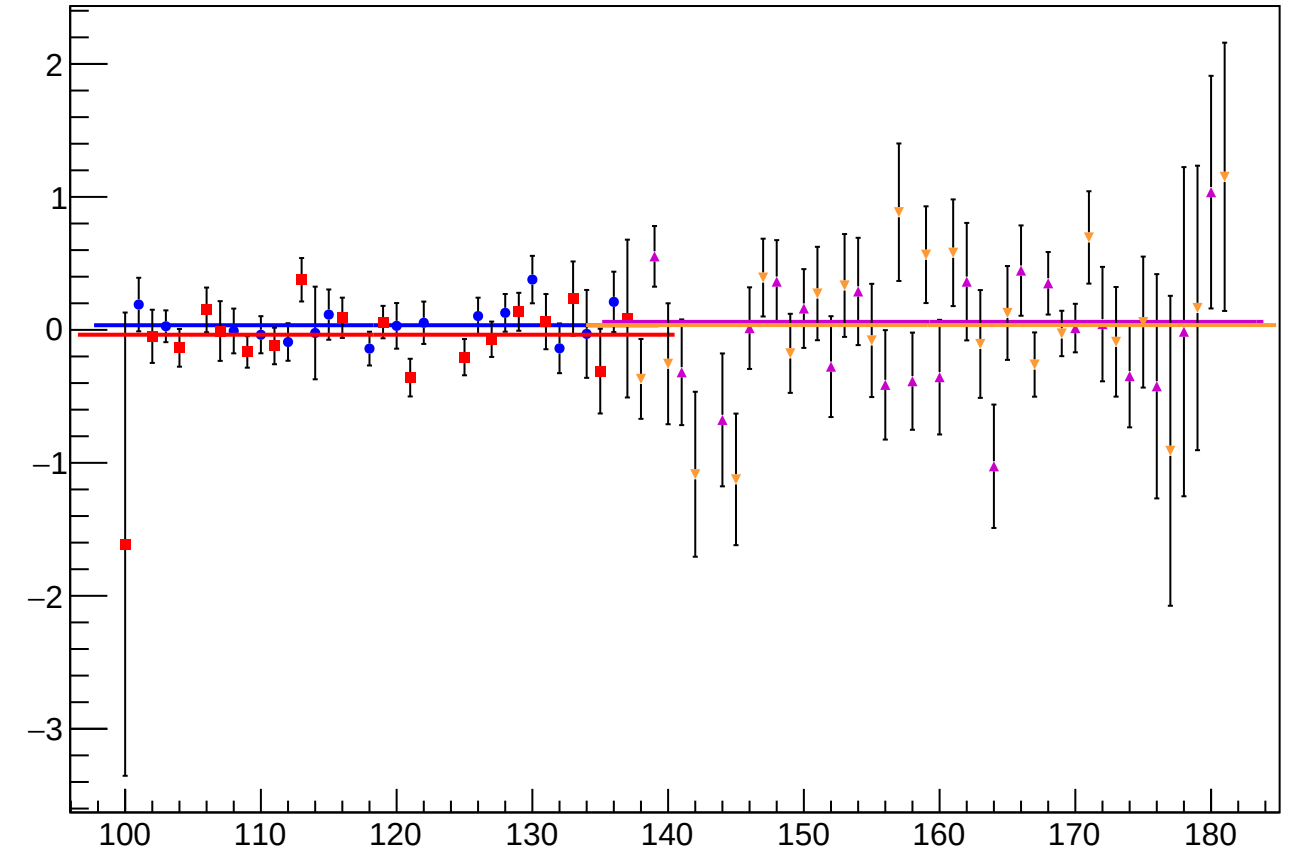
Left: 0.004+/-0.000 $\chi^2$/NDF: 27199058.7/42

Right: 0.005+/-0.000 $\chi^2$/NDF: 10695382.9/33

In: 0.004+/-0.000 $\chi^2$/NDF:17584918.5/36

Out: 0.004+/-0.000 $\chi^2$/NDF:20444826.7/39

All: 0.004+/-0.000 $\chi^2$/NDF: 38410341.2/76




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: 0.036+/-0.077 $\chi^2$/NDF:28.2/21

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.060+/-0.075 $\chi^2$/NDF:25.2/20

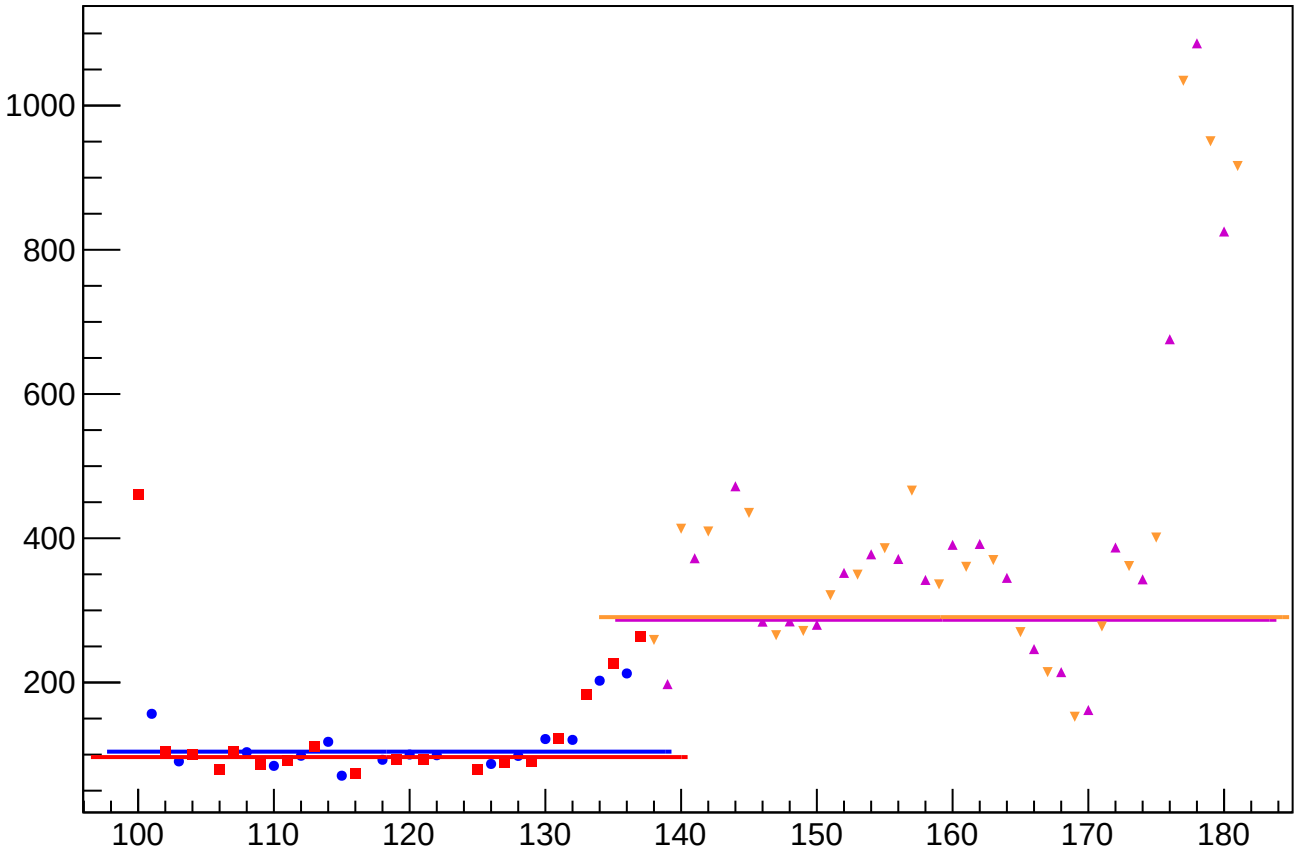
Left: 0.048+/-0.054 $\chi^2$/NDF: 53.5/42

Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.041+/-0.036 $\chi^2$/NDF:35.0/36

Out: -0.022+/-0.035 $\chi^2$/NDF:51.0/39

All: 0.008+/-0.025 $\chi^2$/NDF: 87.6/76




Right In: 104.100+/-0.029 $\chi^2$/NDF: 989809.0/15

Left Out: 290.634+/-0.054 $\chi^2$/NDF:5016220.7/21

Right Out: 96.570+/-0.028 $\chi^2$/NDF: 955477.2/17

Left In: 286.968+/-0.053 $\chi^2$/NDF:4551984.7/20

Left: 288.770+/-0.038 $\chi^2$/NDF: 9570527.8/42

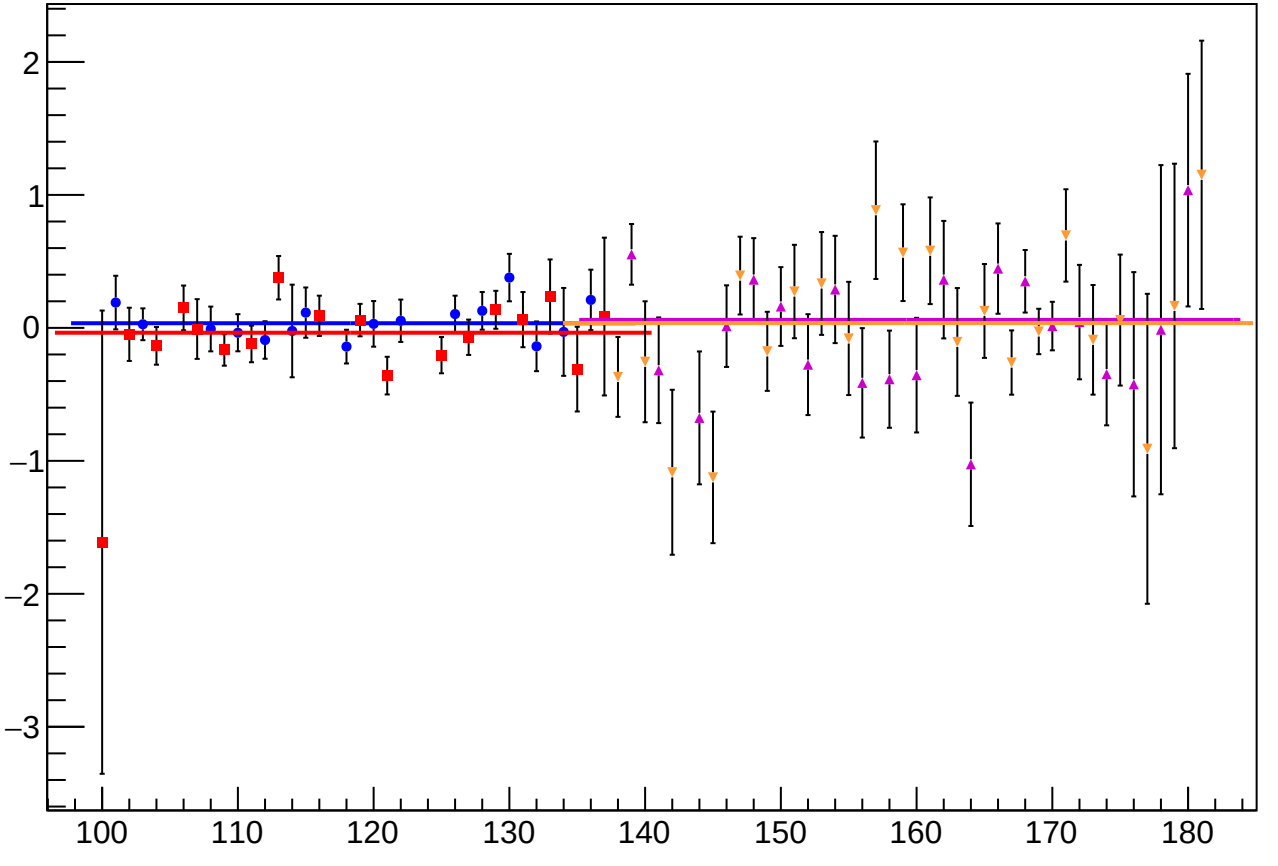
Right: 100.135+/-0.020 $\chi^2$/NDF: 1980754.7/33

In: 145.852+/-0.025 $\chi^2$/NDF:14612018.0/36

Out: 136.251+/-0.025 $\chi^2$/NDF:16149451.6/39

All: 140.869+/-0.018 $\chi^2$/NDF: 30835122.3/76

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: 0.036+/-0.077 $\chi^2$/NDF:28.2/21

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.060+/-0.075 $\chi^2$/NDF:25.2/20

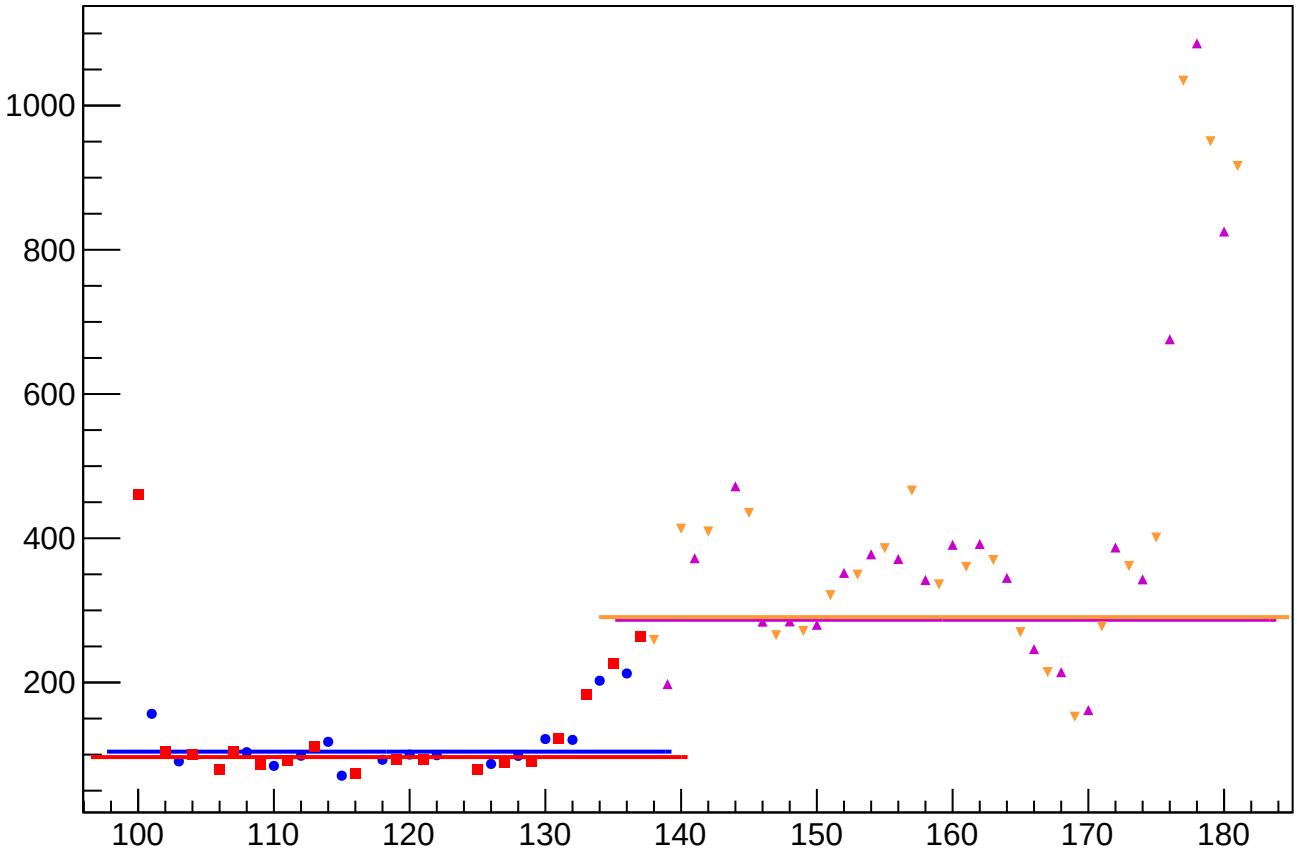
Left: 0.048+/-0.054 $\chi^2$/NDF: 53.5/42

Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.041+/-0.036 $\chi^2$/NDF:35.0/36

Out: -0.022+/-0.035 $\chi^2$/NDF:51.0/39

All: 0.008+/-0.025 $\chi^2$/NDF: 87.6/76




Right In: 104.100+/-0.029 $\chi^2$/NDF: 989809.0/15

Left Out: 290.634+/-0.054 $\chi^2$/NDF:5016220.7/21

Right Out: 96.570+/-0.028 $\chi^2$/NDF: 955477.2/17

Left In: 286.968+/-0.053 $\chi^2$/NDF:4551984.7/20

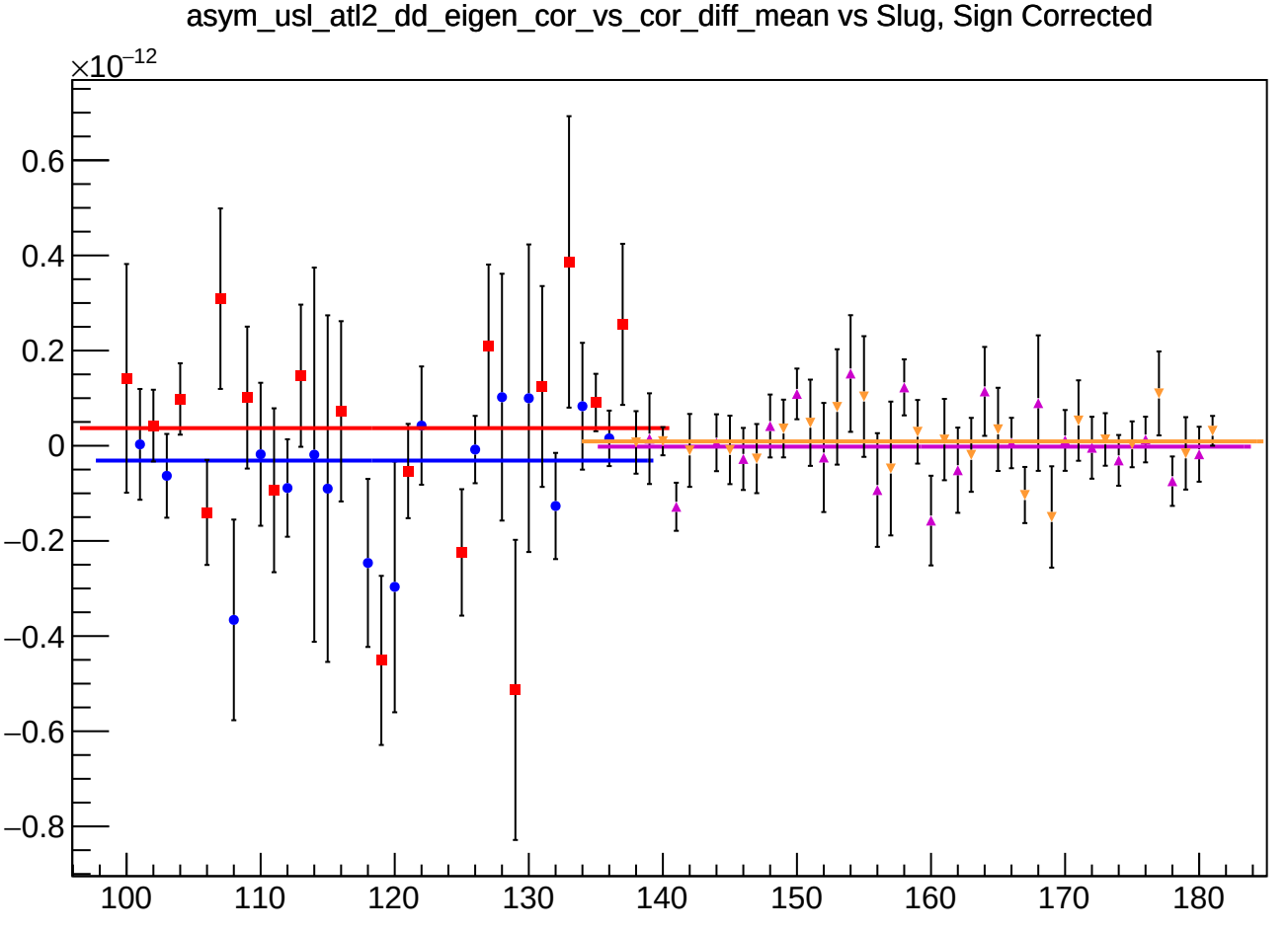
Left: 288.770+/-0.038 $\chi^2$/NDF: 9570527.8/42

Right: 100.135+/-0.020 $\chi^2$/NDF: 1980754.7/33

In: 145.852+/-0.025 $\chi^2$/NDF:14612018.0/36

Out: 136.251+/-0.025 $\chi^2$/NDF:16149451.6/39

All: 140.869+/-0.018 $\chi^2$/NDF: 30835122.3/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10.2/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 27.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.4/20

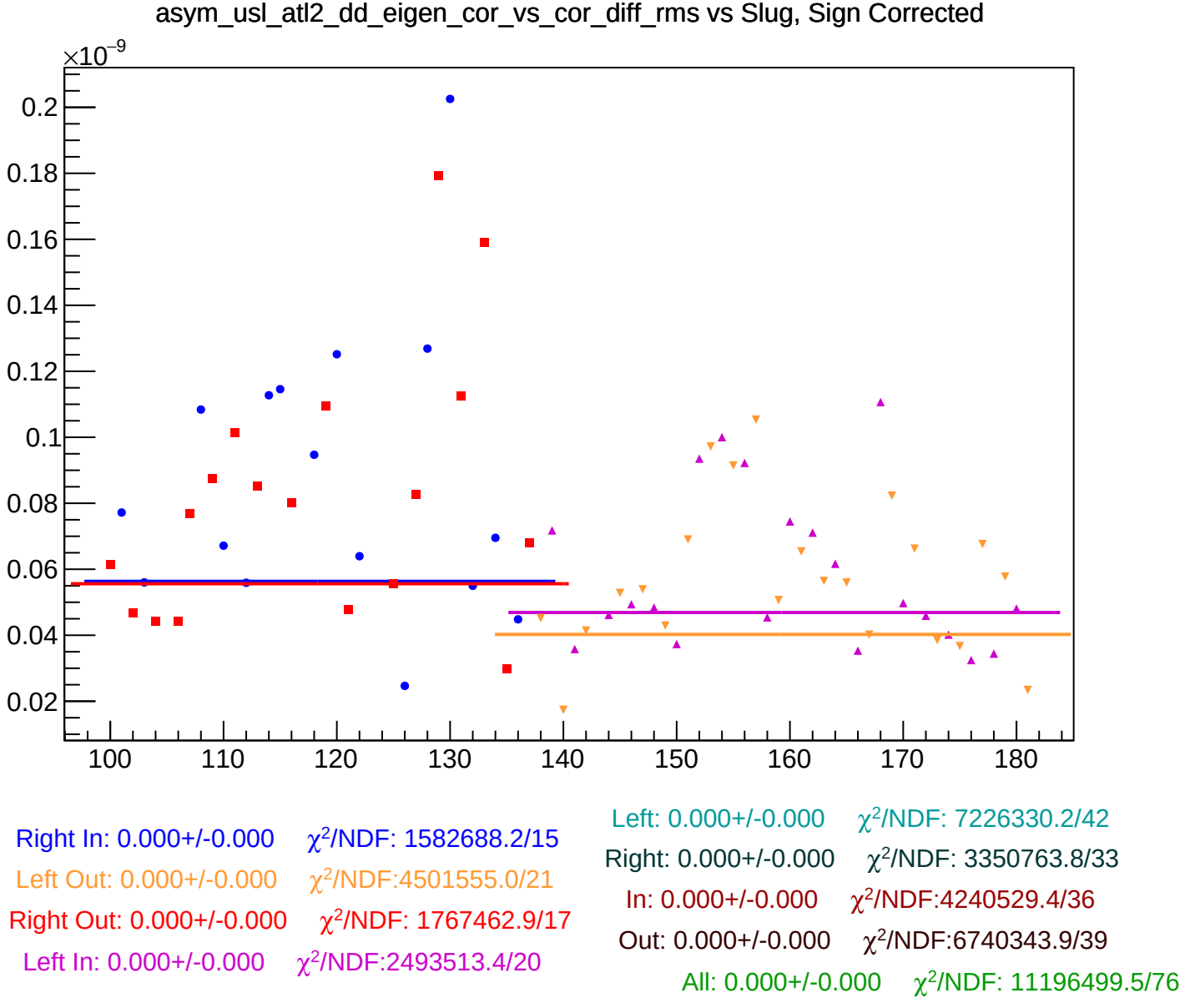
Left: 0.000+/-0.000 $\chi^2$/NDF: 35.9/42

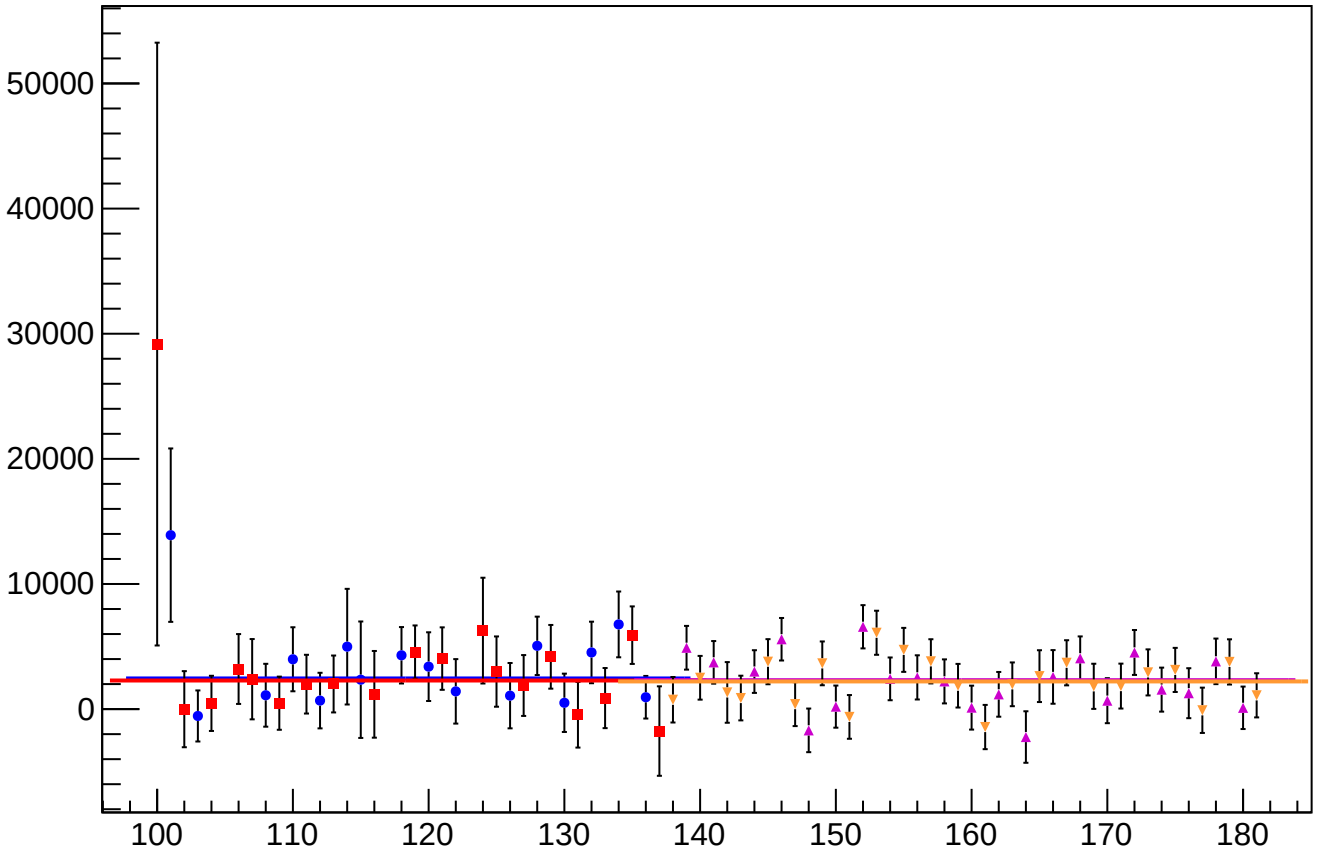
Right: 0.000+/-0.000 $\chi^2$/NDF: 38.4/33

In: -0.000+/-0.000 $\chi^2$/NDF:34.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:38.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 74.3/76


asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1582688.2/15
Left Out: 0.000+/-0.000 χ²/NDF:4501555.0/21
Right Out: 0.000+/-0.000 χ²/NDF: 1767462.9/17
Left In: 0.000+/-0.000 χ²/NDF:2493513.4/20
Left: 0.000+/-0.000 χ²/NDF: 7226330.2/42
Right: 0.000+/-0.000 χ²/NDF: 3350763.8/33
In: 0.000+/-0.000 χ²/NDF:4240529.4/36
Out: 0.000+/-0.000 χ²/NDF:6740343.9/39
All: 0.000+/-0.000 χ²/NDF: 11196499.5/76




Right In: 2449.957+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 2213.122+/-376.589 $\chi^2$/NDF:22.6/22

Right Out: 2286.573+/-609.157 $\chi^2$/NDF: 11.8/18

Left In: 2313.042+/-388.448 $\chi^2$/NDF:32.8/20

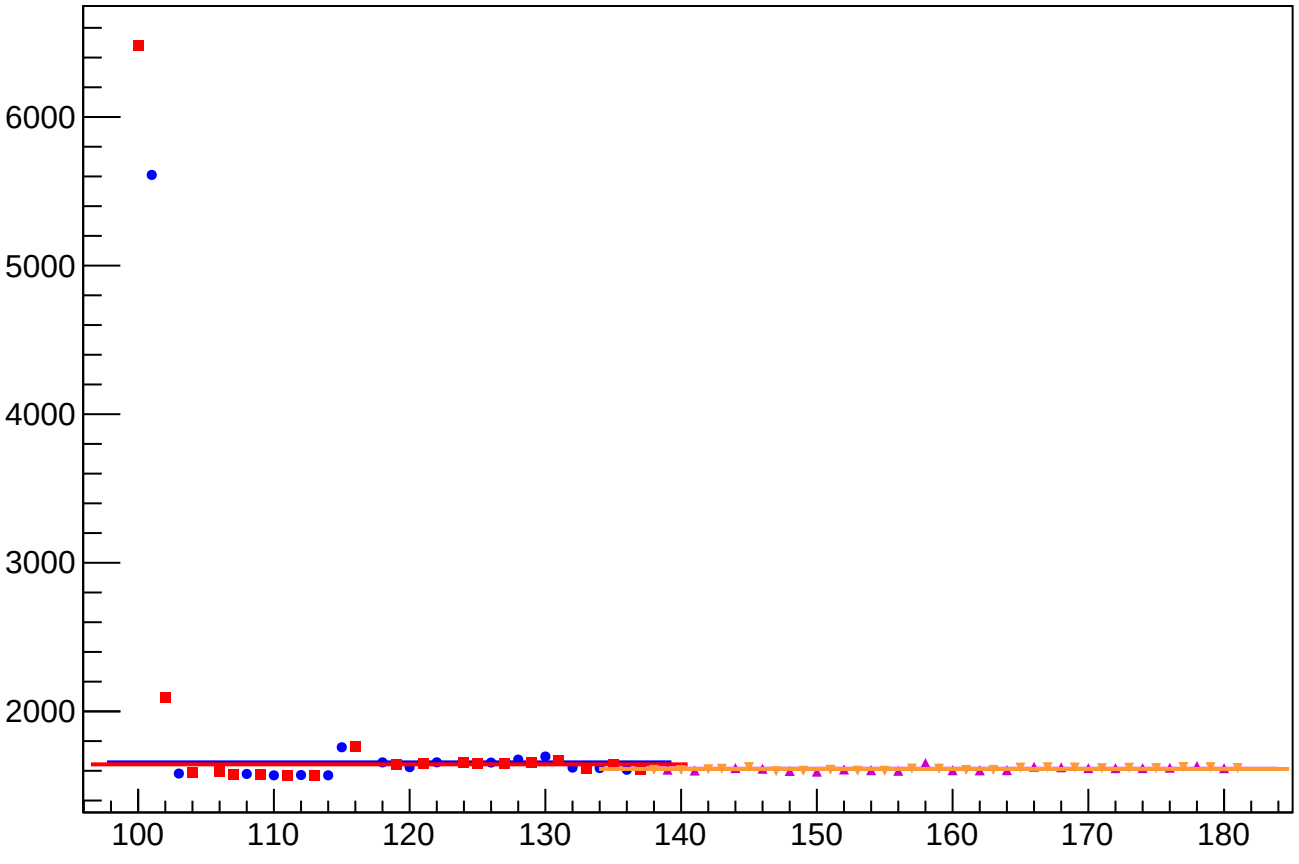
Left: 2261.533+/-270.384 $\chi^2$/NDF: 55.4/43

Right: 2365.487+/-438.001 $\chi^2$/NDF: 25.7/34

In: 2350.736+/-330.682 $\chi^2$/NDF:46.7/36

Out: 2233.432+/-320.320 $\chi^2$/NDF:34.4/41

All: 2290.217+/-230.076 $\chi^2$/NDF: 81.2/78




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666226.2/15

Left Out: 1612.421+/-0.266 $\chi^2$/NDF:1162.9/22

Right Out: 1643.430+/-0.431 $\chi^2$/NDF: 136997.9/18

Left In: 1613.554+/-0.275 $\chi^2$/NDF:2341.4/20

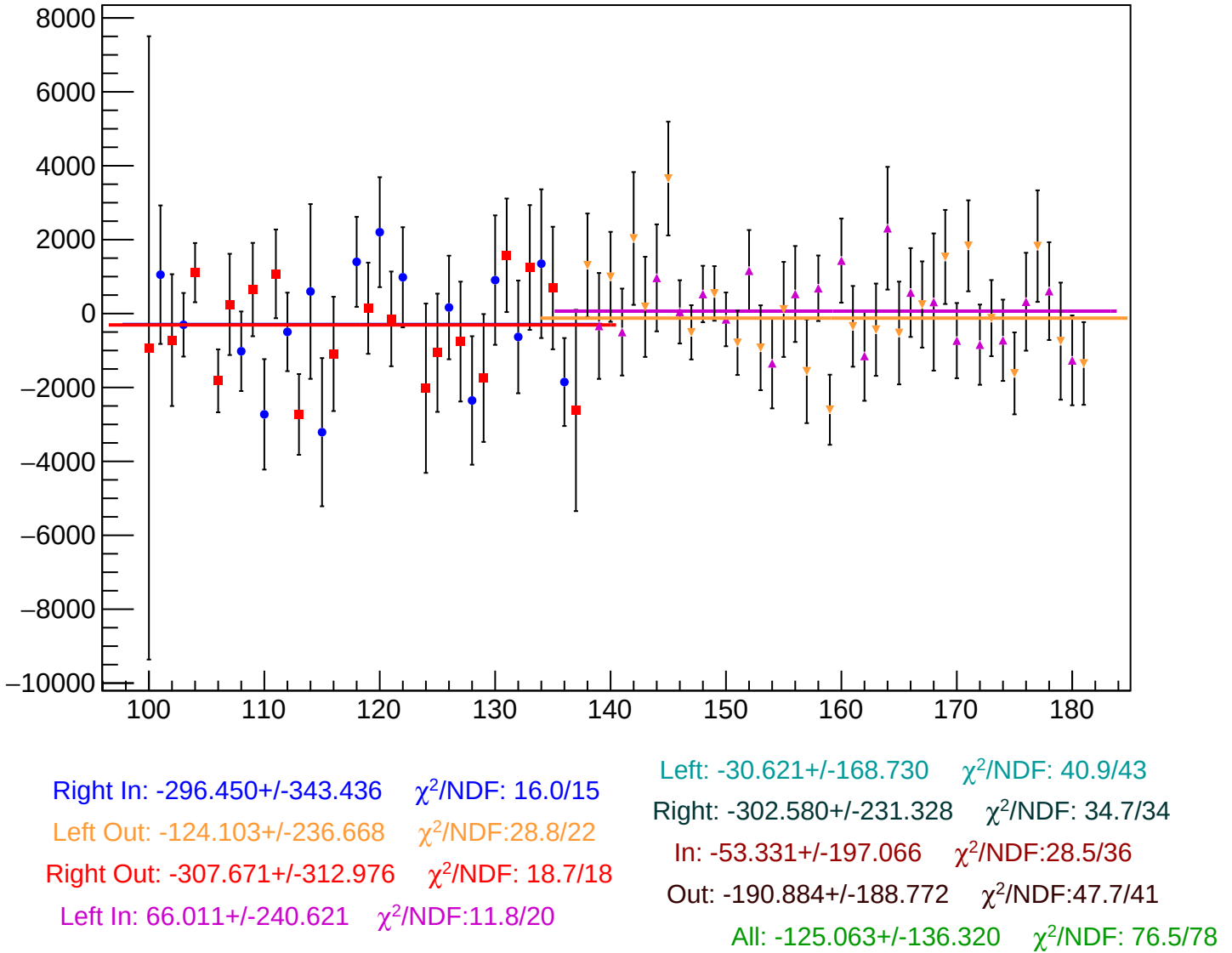
Left: 1612.970+/-0.191 $\chi^2$/NDF: 3513.0/43

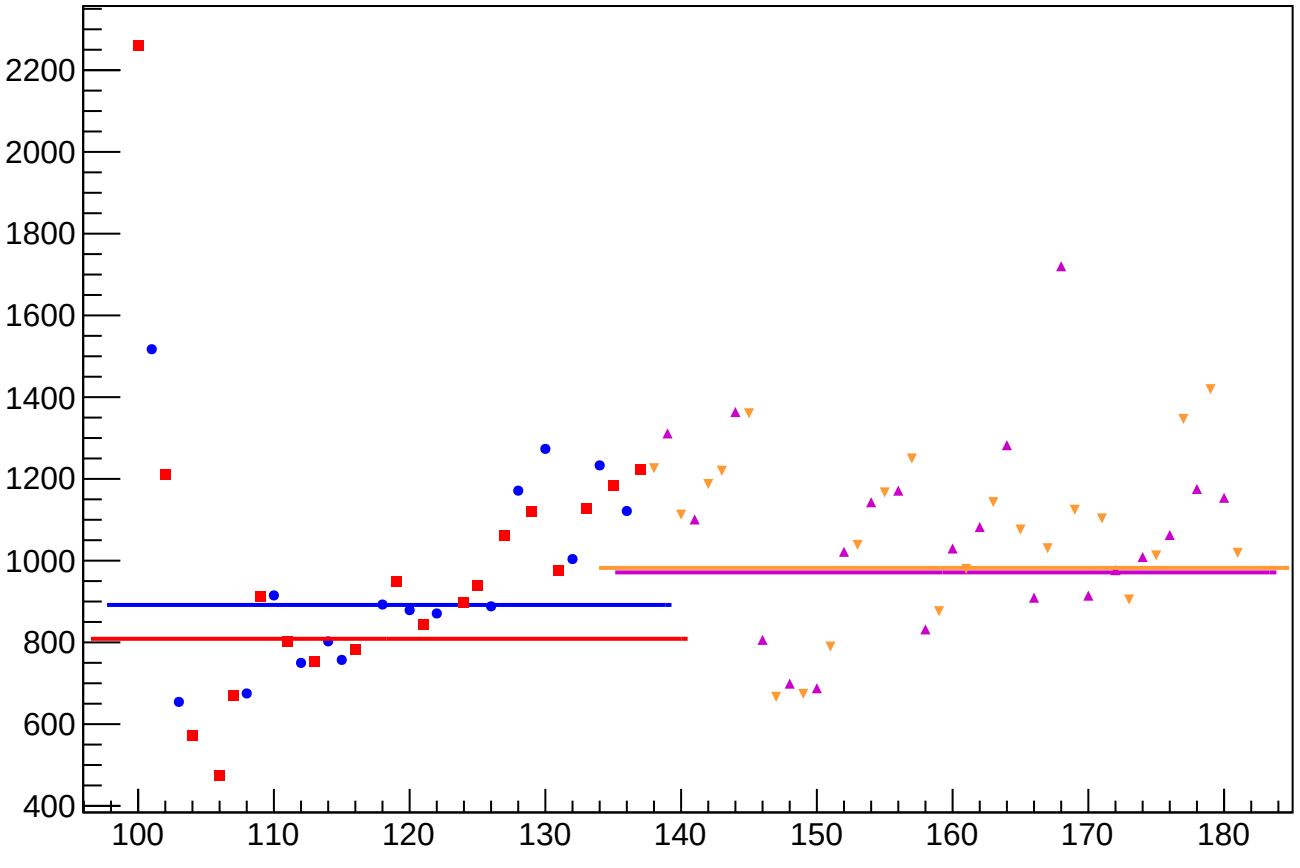
Right: 1649.831+/-0.310 $\chi^2$/NDF: 803681.3/34

In: 1625.428+/-0.234 $\chi^2$/NDF:675355.3/36

Out: 1620.996+/-0.227 $\chi^2$/NDF:141910.2/41

All: 1623.141+/-0.163 $\chi^2$/NDF: 817450.8/78


asym_usr_atr1_avg_reg_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
100
110
120
130
140
150
160
170
180
Right In: -296.450+/-343.436 χ²/NDF: 16.0/15
Left Out: -124.103+/-236.668 χ²/NDF:28.8/22
Right Out: -307.671+/-312.976 χ²/NDF: 18.7/18
Left In: 66.011+/-240.621 χ²/NDF:11.8/20
Left: -30.621+/-168.730 χ²/NDF: 40.9/43
Right: -302.580+/-231.328 χ²/NDF: 34.7/34
In: -53.331+/-197.066 χ²/NDF:28.5/36
Out: -190.884+/-188.772 χ²/NDF:47.7/41
All: -125.063+/-136.320 χ²/NDF: 76.5/78




Right In: 891.633+/-0.243 $\chi^2$/NDF: 793897.2/15

Left Out: 982.240+/-0.167 $\chi^2$/NDF:1625357.3/22

Right Out: 808.809+/-0.221 $\chi^2$/NDF: 1083841.8/18

Left In: 971.233+/-0.170 $\chi^2$/NDF:1590694.9/20

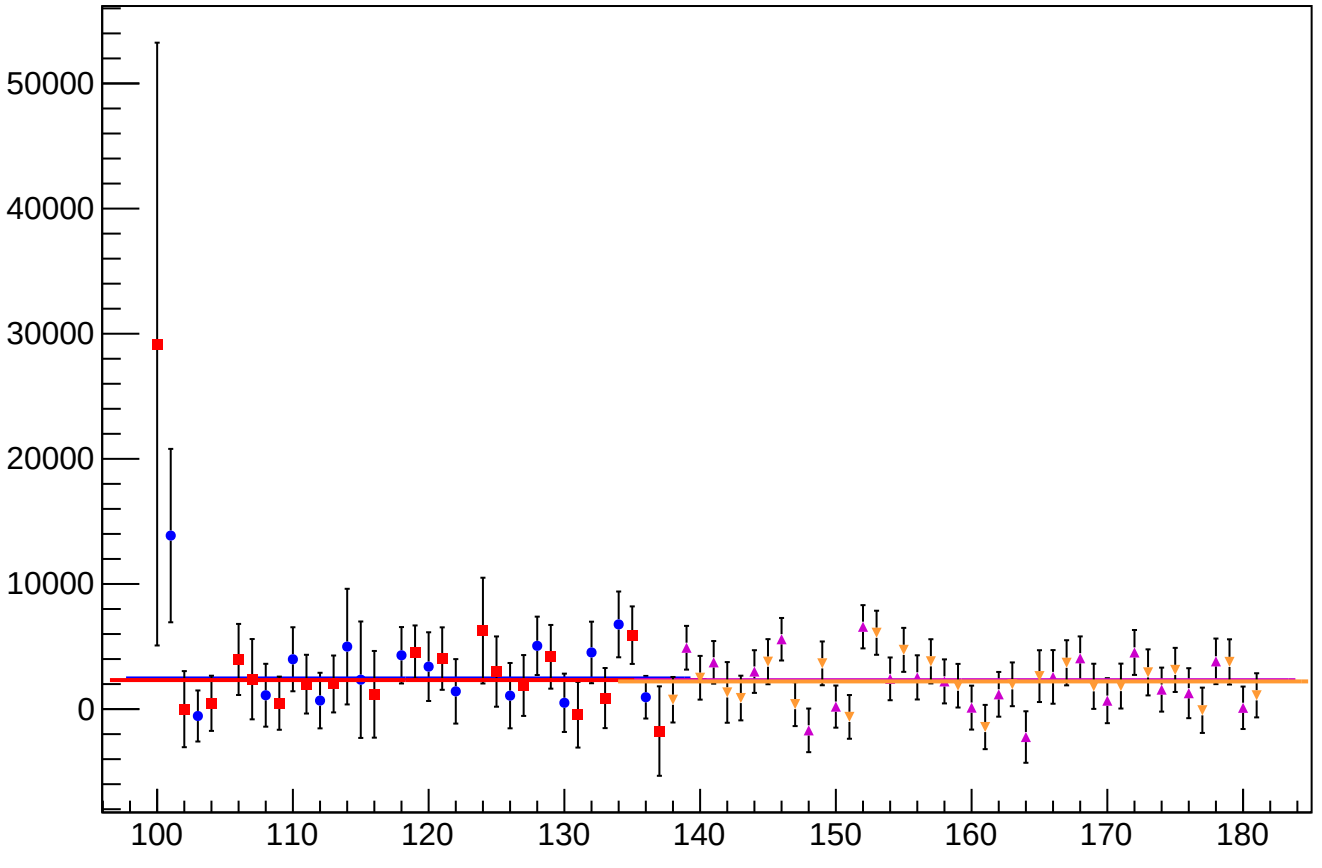
Left: 976.828+/-0.119 $\chi^2$/NDF: 3218179.4/43

Right: 846.386+/-0.164 $\chi^2$/NDF: 1941284.0/34

In: 945.024+/-0.139 $\chi^2$/NDF:2456657.0/36

Out: 919.147+/-0.133 $\chi^2$/NDF:3099913.3/41

All: 931.530+/-0.096 $\chi^2$/NDF: 5574553.9/78




Right In: 2449.397+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 2213.103+/-376.589 $\chi^2$/NDF:22.6/22

Right Out: 2320.575+/-609.657 $\chi^2$/NDF: 12.1/18

Left In: 2313.093+/-388.448 $\chi^2$/NDF:32.8/20

Left: 2261.548+/-270.384 $\chi^2$/NDF: 55.4/43

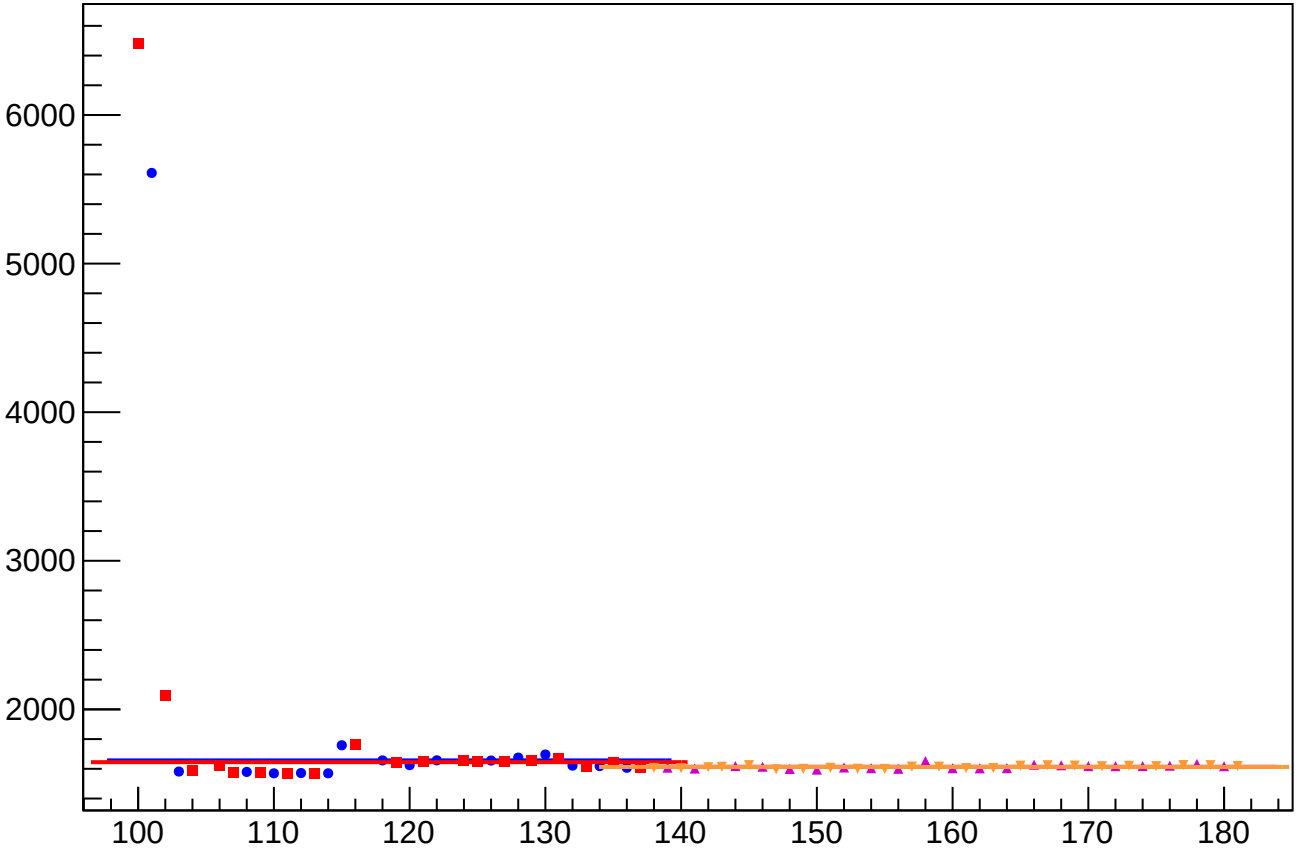
Right: 2382.848+/-438.187 $\chi^2$/NDF: 25.9/34

In: 2350.618+/-330.682 $\chi^2$/NDF:46.7/36

Out: 2242.785+/-320.392 $\chi^2$/NDF:34.7/41

All: 2294.998+/-230.103 $\chi^2$/NDF: 81.4/78

# cor_asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666225.7/15

Left Out: 1612.421+/-0.266 $\chi^2$/NDF:1162.9/22

Right Out: 1644.733+/-0.431 $\chi^2$/NDF: 136483.1/18

Left In: 1613.554+/-0.275 $\chi^2$/NDF:2341.4/20

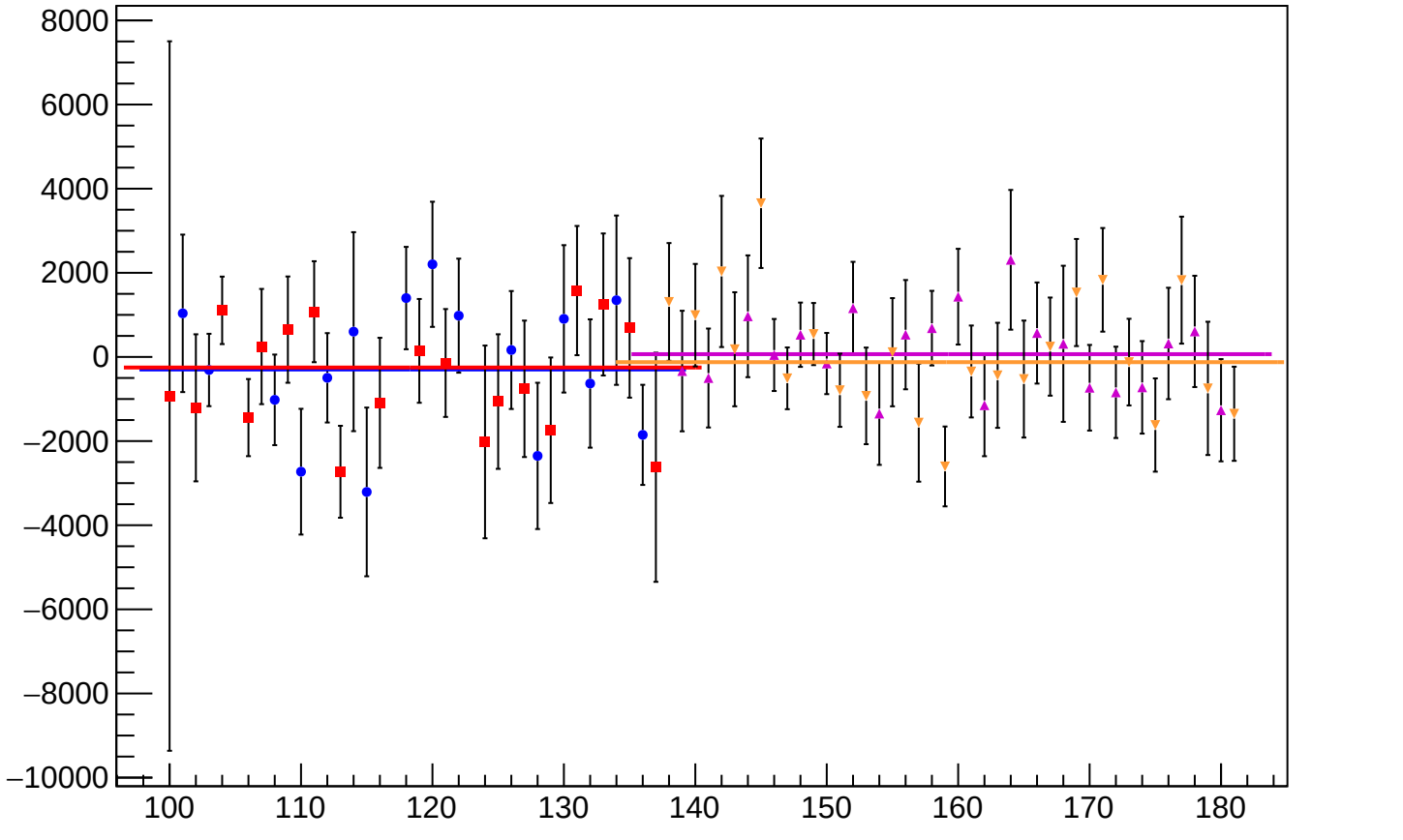
Left: 1612.970+/-0.191 $\chi^2$/NDF: 3513.0/43

Right: 1650.510+/-0.310 $\chi^2$/NDF: 803080.3/34

In: 1625.428+/-0.234 $\chi^2$/NDF:675354.8/36

Out: 1621.345+/-0.227 $\chi^2$/NDF:141712.2/41

All: 1623.322+/-0.163 $\chi^2$/NDF: 817224.3/78




Right In: -297.794+/-343.391 $\chi^2$/NDF: 15.9/15

Left Out: -124.157+/-236.666 $\chi^2$/NDF:28.8/22

Right Out: -251.230+/-315.749 $\chi^2$/NDF: 17.3/18

Left In: 66.031+/-240.622 $\chi^2$/NDF:11.8/20

Left: -30.639+/-168.729 $\chi^2$/NDF: 40.9/43

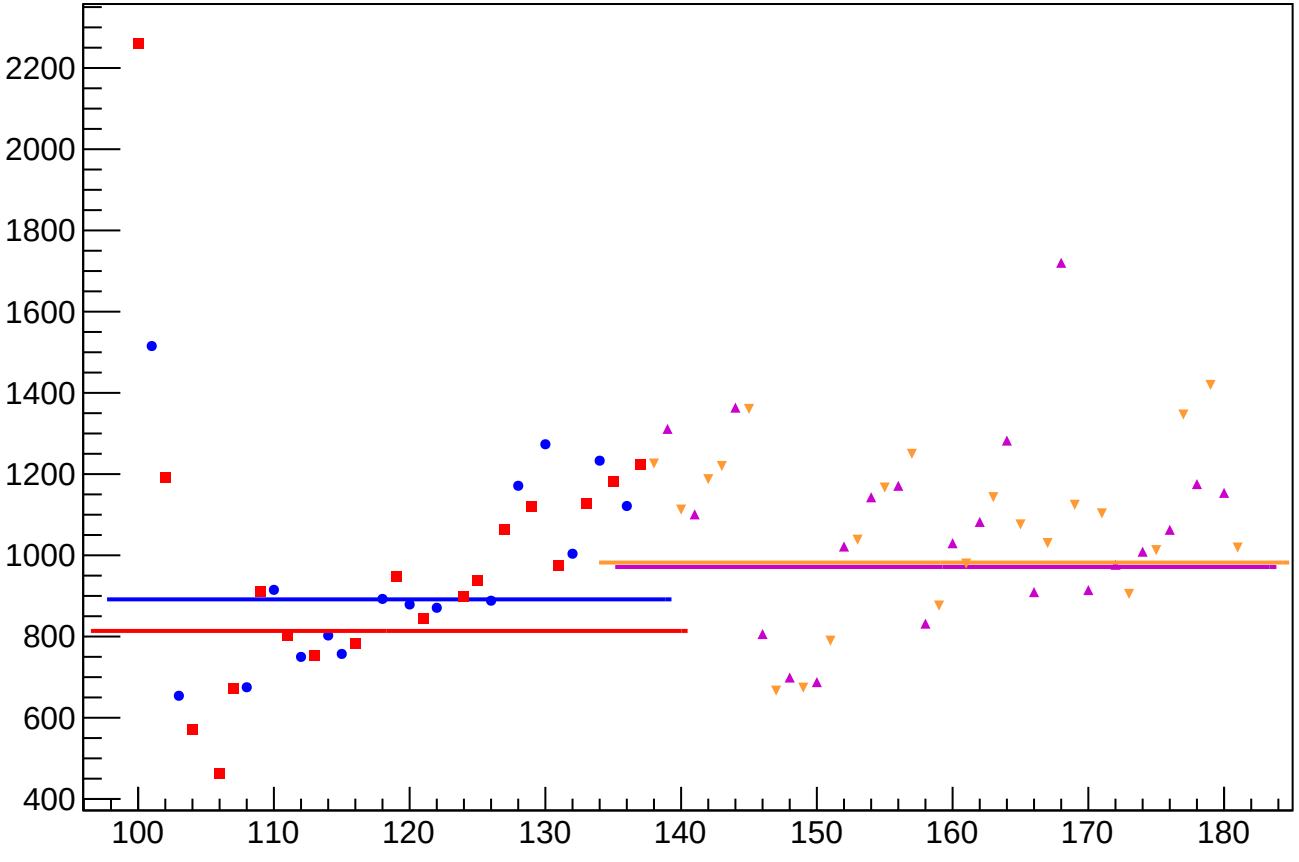
Right: -272.563+/-232.427 $\chi^2$/NDF: 33.2/34

In: -53.782+/-197.058 $\chi^2$/NDF:28.5/36

Out: -169.867+/-189.375 $\chi^2$/NDF:46.2/41

All: -114.132+/-136.544 $\chi^2$/NDF: 74.9/78

asym_usr_atr1_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 891.533+/-0.243 $\chi^2$/NDF: 793657.2/15

Left Out: 982.231+/-0.167 $\chi^2$/NDF:1625474.5/22

Right Out: 813.807+/-0.223 $\chi^2$/NDF: 1052991.6/18

Left In: 971.239+/-0.170 $\chi^2$/NDF:1590655.2/20

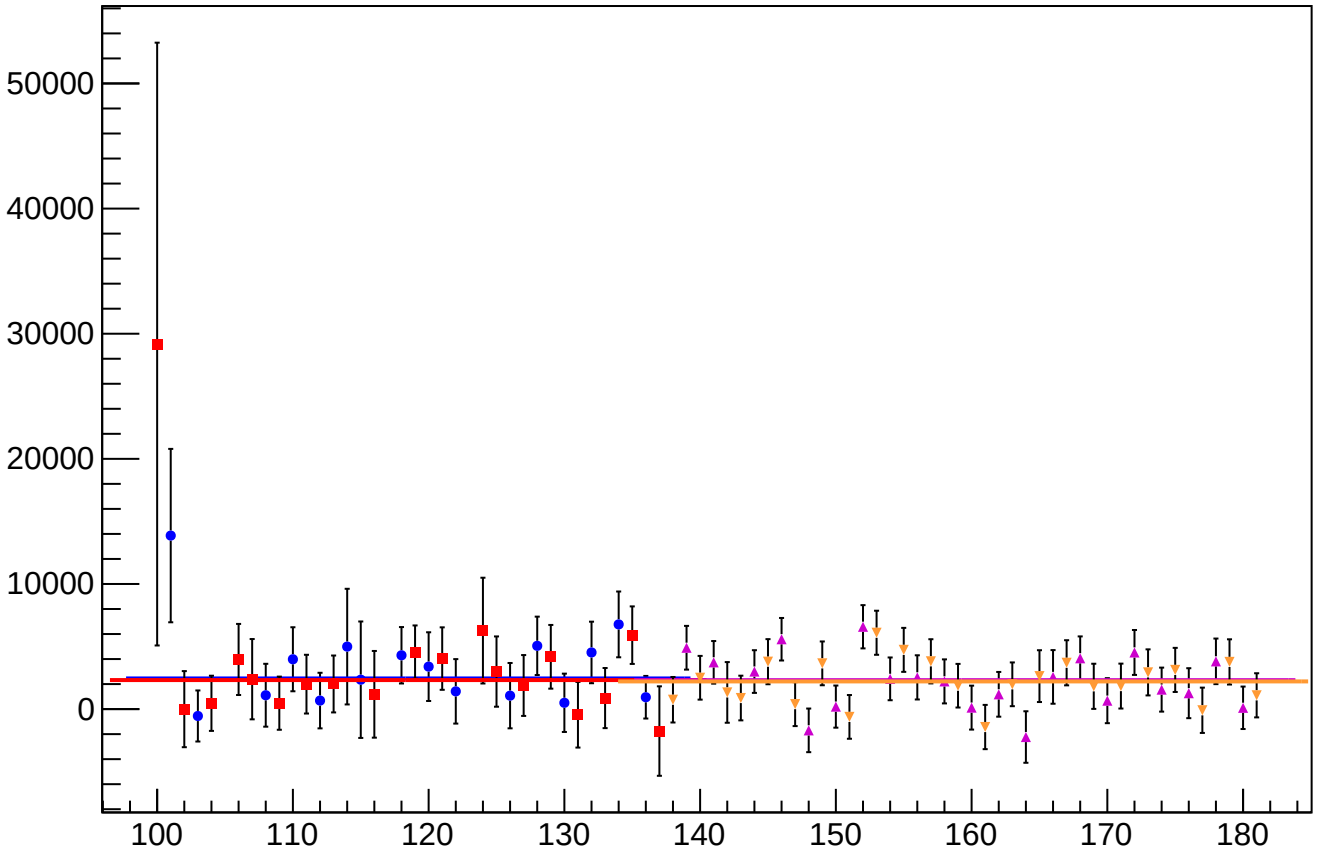
Left: 976.826+/-0.119 $\chi^2$/NDF: 3218251.2/43

Right: 849.416+/-0.164 $\chi^2$/NDF: 1902171.7/34

In: 944.991+/-0.139 $\chi^2$/NDF:2456581.9/36

Out: 921.646+/-0.134 $\chi^2$/NDF:3042822.9/41

All: 932.855+/-0.097 $\chi^2$/NDF: 5513996.3/78




Right In: 2449.397+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 2213.103+/-376.589 $\chi^2$/NDF:22.6/22

Right Out: 2320.575+/-609.657 $\chi^2$/NDF: 12.1/18

Left In: 2313.093+/-388.448 $\chi^2$/NDF:32.8/20

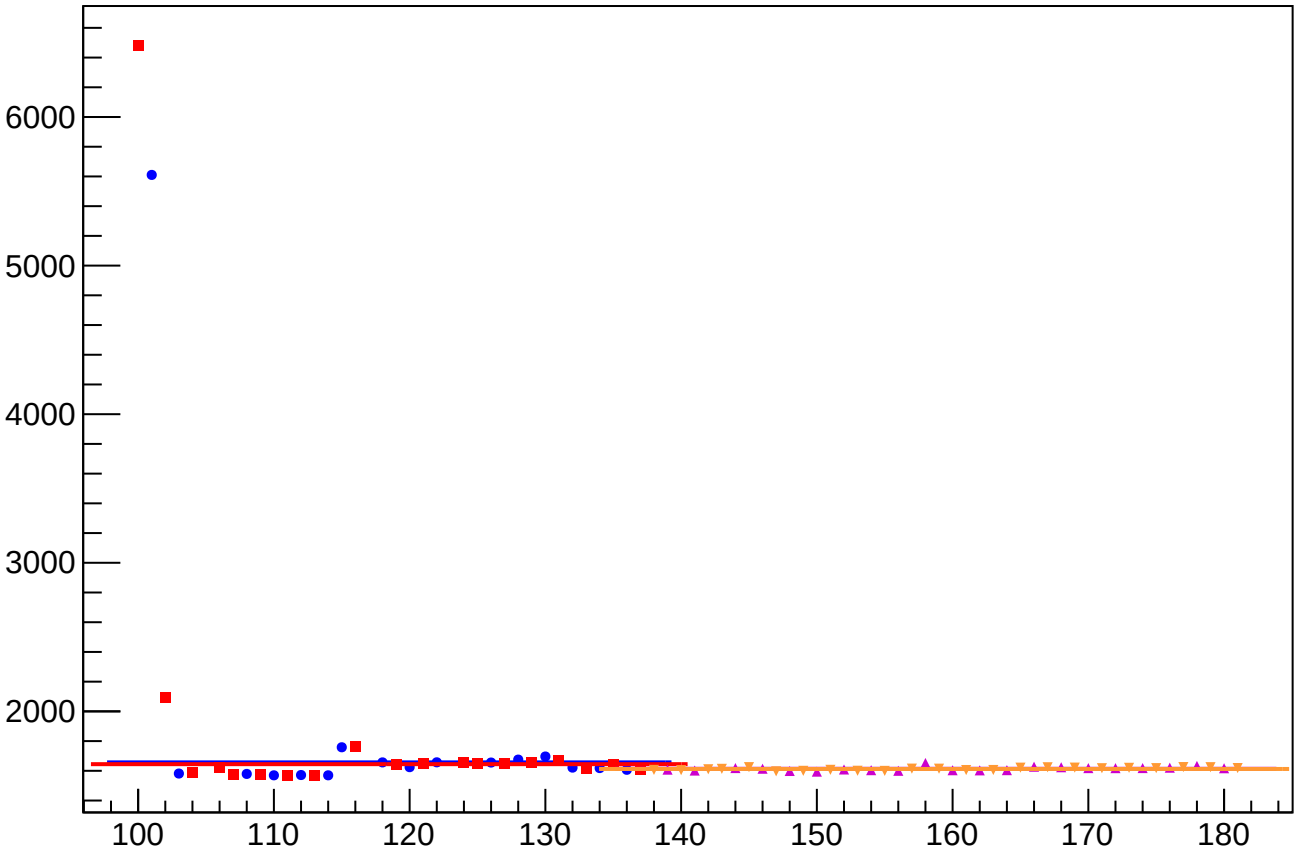
Left: 2261.548+/-270.384 $\chi^2$/NDF: 55.4/43

Right: 2382.848+/-438.187 $\chi^2$/NDF: 25.9/34

In: 2350.618+/-330.682 $\chi^2$/NDF:46.7/36

Out: 2242.785+/-320.392 $\chi^2$/NDF:34.7/41

All: 2294.998+/-230.103 $\chi^2$/NDF: 81.4/78




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666225.7/15

Left Out: 1612.421+/-0.266 $\chi^2$/NDF:1162.9/22

Right Out: 1644.733+/-0.431 $\chi^2$/NDF: 136483.1/18

Left In: 1613.554+/-0.275 $\chi^2$/NDF:2341.4/20

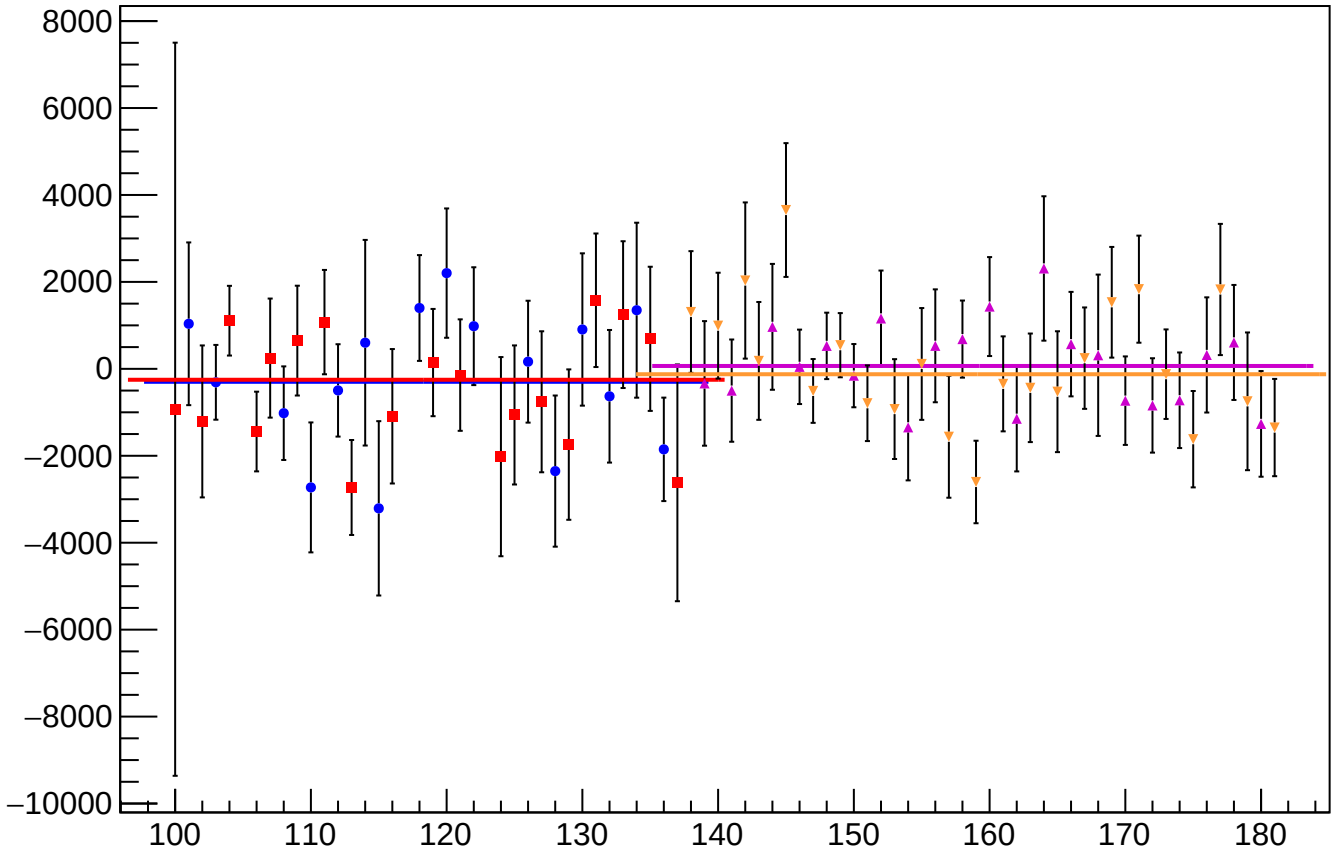
Left: 1612.970+/-0.191 $\chi^2$/NDF: 3513.0/43

Right: 1650.510+/-0.310 $\chi^2$/NDF: 803080.3/34

In: 1625.428+/-0.234 $\chi^2$/NDF:675354.8/36

Out: 1621.345+/-0.227 $\chi^2$/NDF:141712.2/41

All: 1623.322+/-0.163 $\chi^2$/NDF: 817224.3/78




Right In: -297.794+/-343.391 $\chi^2$/NDF: 15.9/15

Left Out: -124.157+/-236.666 $\chi^2$/NDF:28.8/22

Right Out: -251.230+/-315.749 $\chi^2$/NDF: 17.3/18

Left In: 66.031+/-240.622 $\chi^2$/NDF:11.8/20

Left: -30.639+/-168.729 $\chi^2$/NDF: 40.9/43

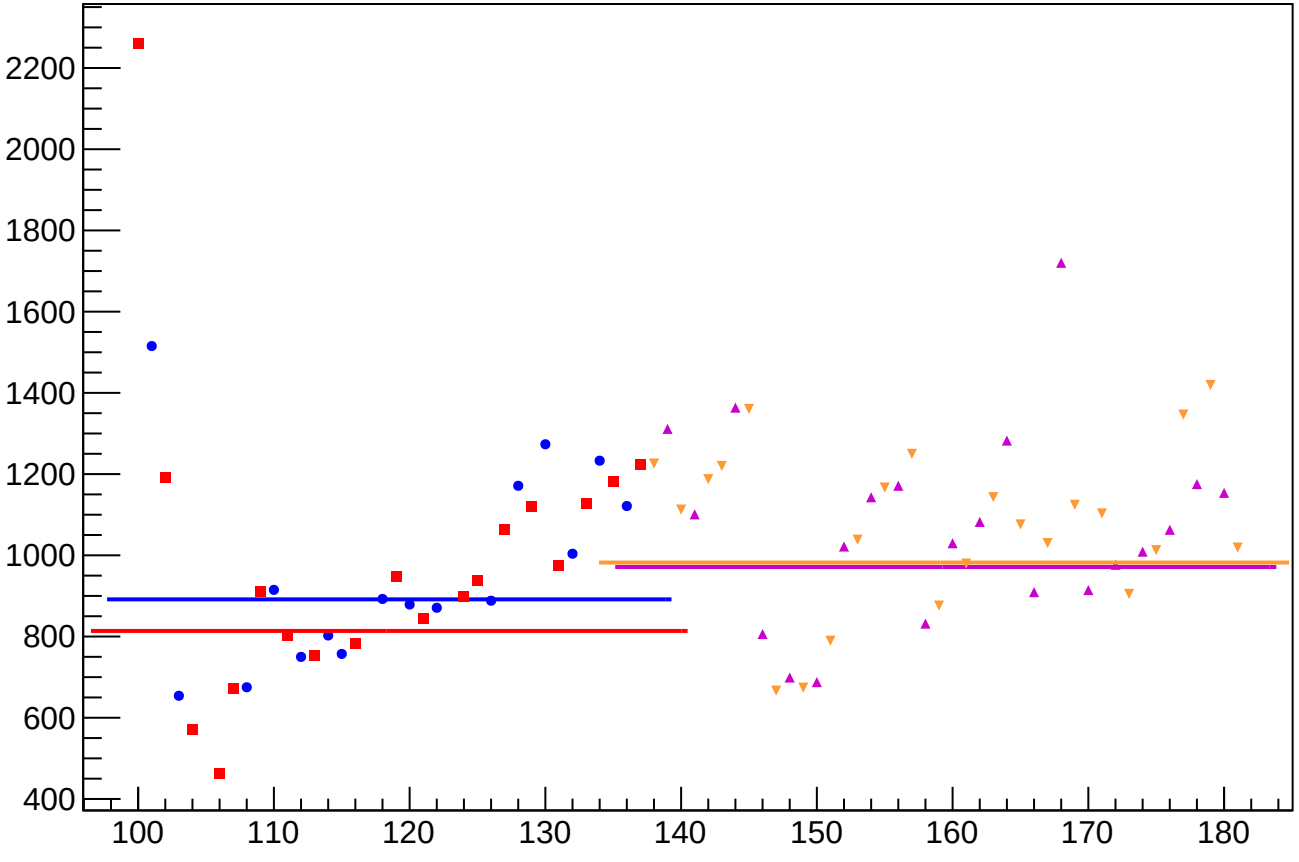
Right: -272.563+/-232.427 $\chi^2$/NDF: 33.2/34

In: -53.782+/-197.058 $\chi^2$/NDF:28.5/36

Out: -169.867+/-189.375 $\chi^2$/NDF:46.2/41

All: -114.132+/-136.544 $\chi^2$/NDF: 74.9/78

asym_usr_atr1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 891.533+/-0.243 $\chi^2$/NDF: 793657.2/15

Left Out: 982.231+/-0.167 $\chi^2$/NDF:1625474.5/22

Right Out: 813.807+/-0.223 $\chi^2$/NDF: 1052991.6/18

Left In: 971.239+/-0.170 $\chi^2$/NDF:1590655.2/20

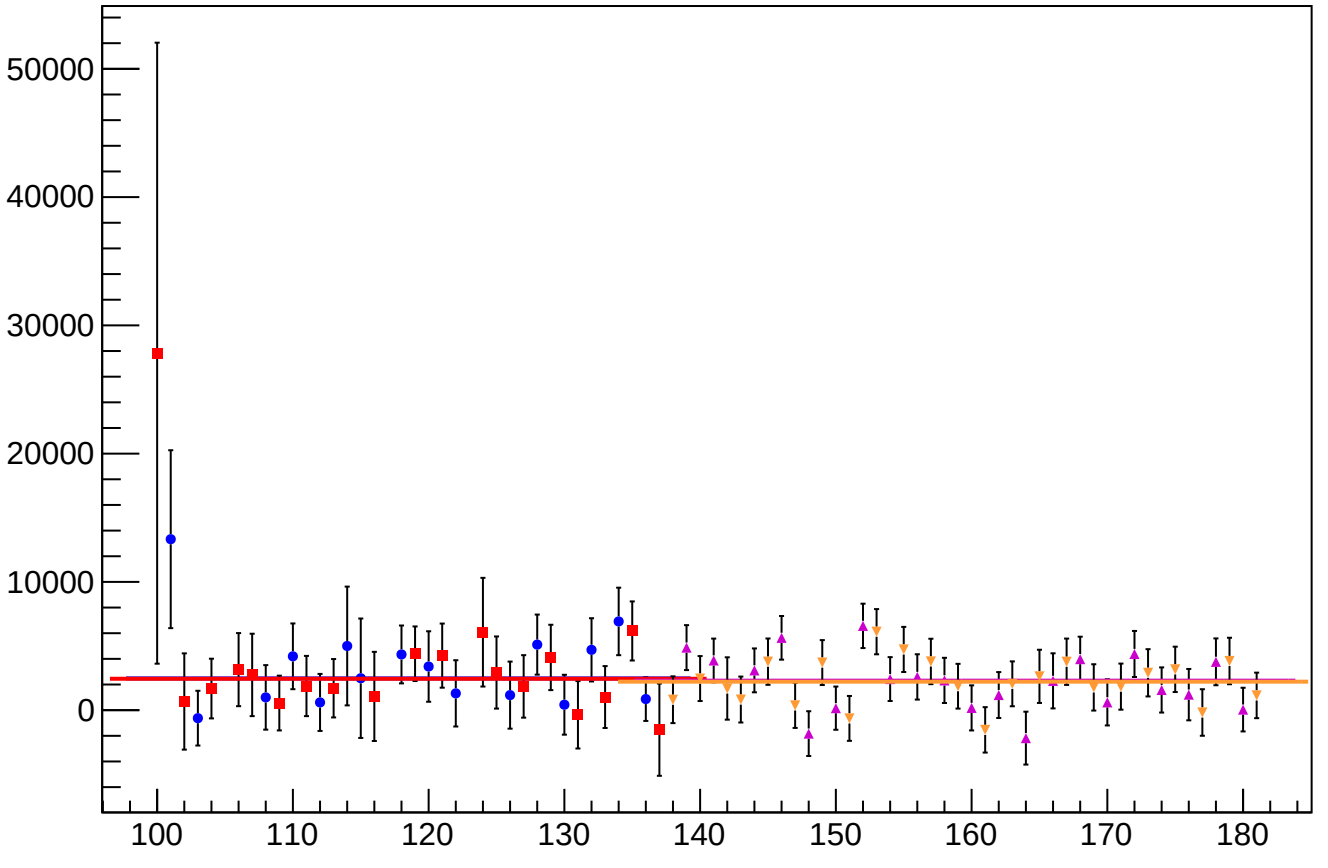
Left: 976.826+/-0.119 $\chi^2$/NDF: 3218251.2/43

Right: 849.416+/-0.164 $\chi^2$/NDF: 1902171.7/34

In: 944.991+/-0.139 $\chi^2$/NDF:2456581.9/36

Out: 921.646+/-0.134 $\chi^2$/NDF:3042822.9/41

All: 932.855+/-0.097 $\chi^2$/NDF: 5513996.3/78




Right In: 2475.229+/-633.866 $\chi^2$/NDF: 14.2/15

Left Out: 2222.256+/-377.284 $\chi^2$/NDF:23.0/22

Right Out: 2449.053+/-617.532 $\chi^2$/NDF: 10.6/18

Left In: 2300.194+/-389.039 $\chi^2$/NDF:33.0/20

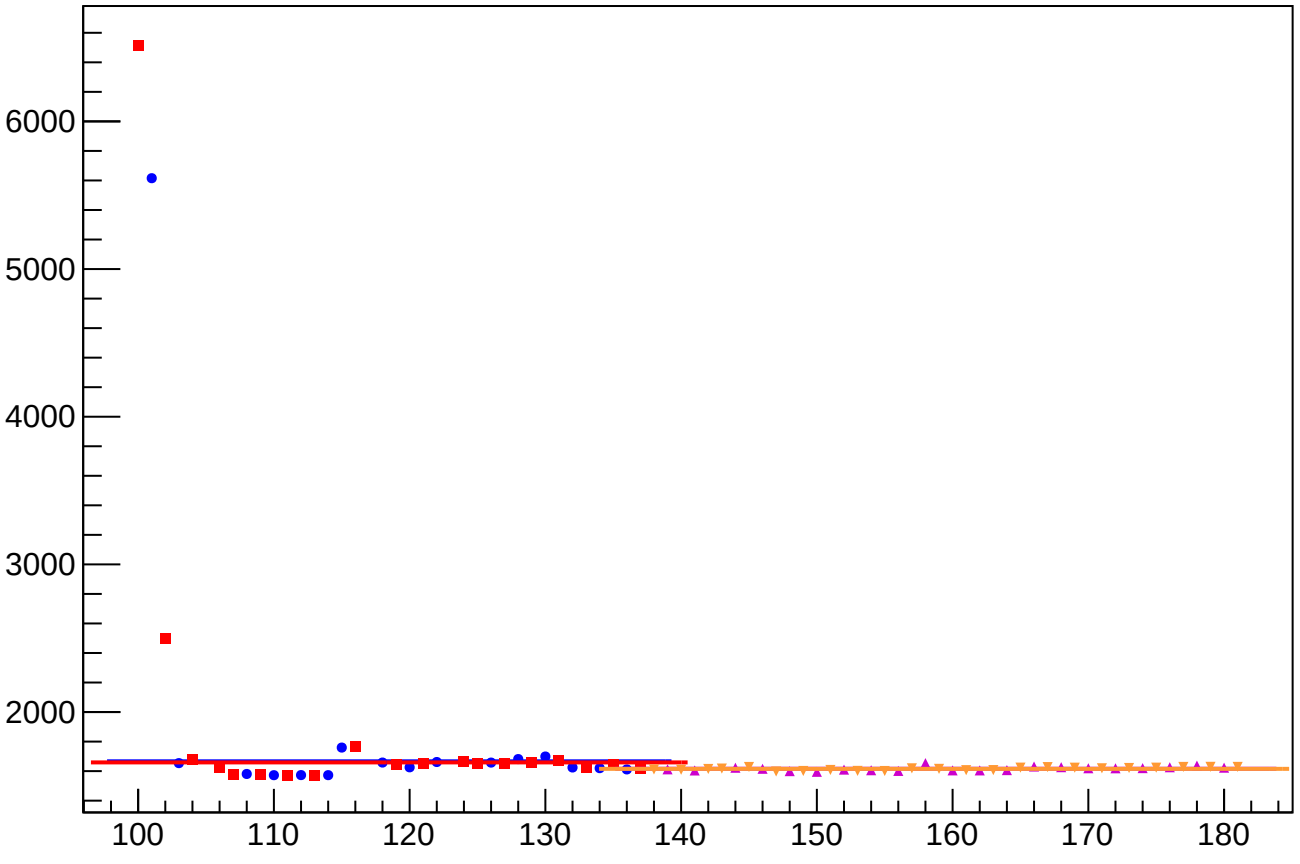
Left: 2260.030+/-270.841 $\chi^2$/NDF: 56.1/43

Right: 2461.799+/-442.323 $\chi^2$/NDF: 24.8/34

In: 2348.088+/-331.569 $\chi^2$/NDF:47.3/36

Out: 2283.902+/-321.952 $\chi^2$/NDF:33.7/41

All: 2315.051+/-230.980 $\chi^2$/NDF: 81.0/78




Right In: 1666.400+/-0.448 $\chi^2$/NDF: 662914.5/15

Left Out: 1615.387+/-0.267 $\chi^2$/NDF:1427.7/22

Right Out: 1659.005+/-0.437 $\chi^2$/NDF: 193223.7/18

Left In: 1615.997+/-0.275 $\chi^2$/NDF:2525.1/20

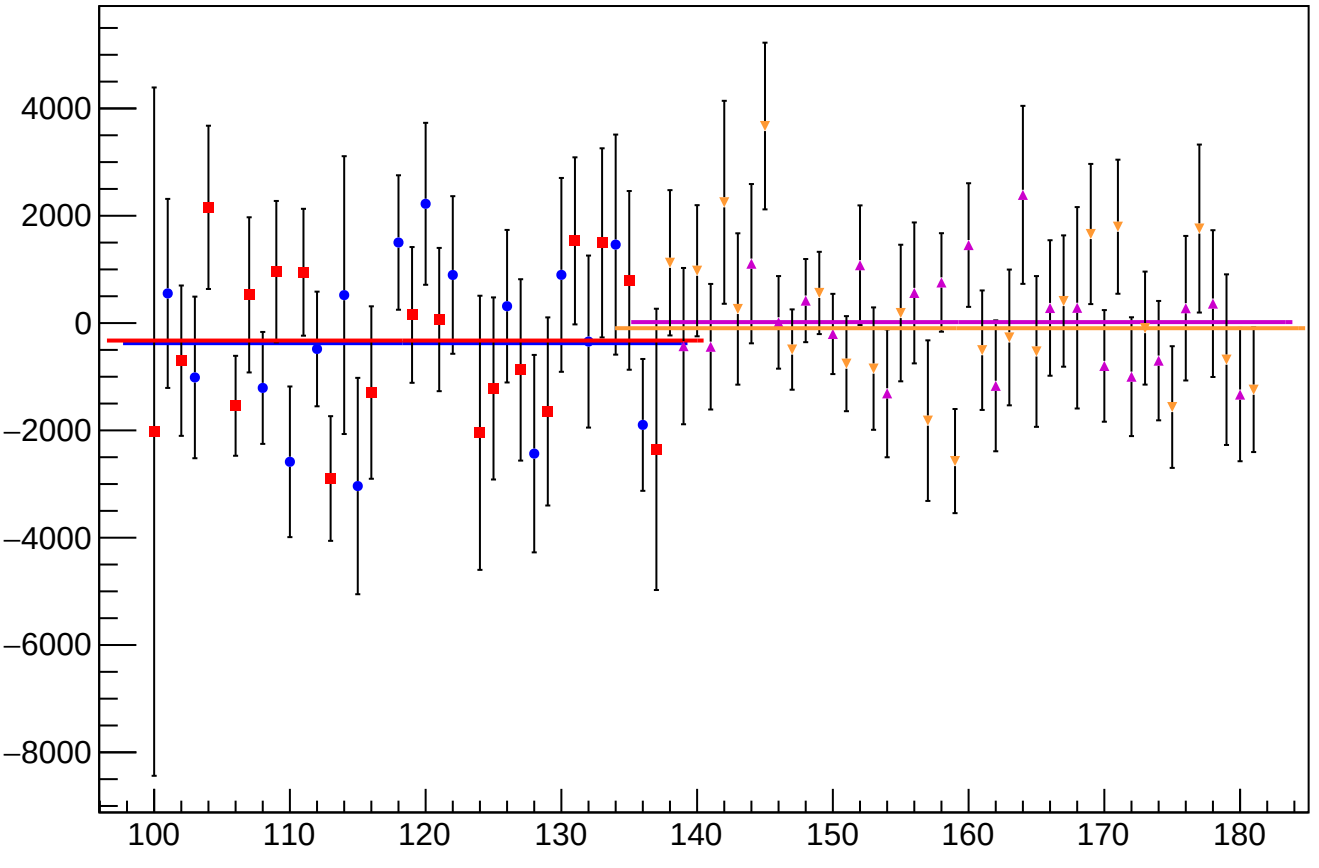
Left: 1615.683+/-0.192 $\chi^2$/NDF: 3955.3/43

Right: 1662.606+/-0.313 $\chi^2$/NDF: 856277.9/34

In: 1629.789+/-0.234 $\chi^2$/NDF:674625.0/36

Out: 1627.242+/-0.228 $\chi^2$/NDF:201917.3/41

All: 1628.478+/-0.163 $\chi^2$/NDF: 876603.0/78




Right In: -374.592+/-367.944 $\chi^2$/NDF: 15.7/15

Left Out: -95.674+/-241.669 $\chi^2$/NDF:27.7/22

Right Out: -325.671+/-340.620 $\chi^2$/NDF: 17.4/18

Left In: 18.080+/-244.630 $\chi^2$/NDF:11.9/20

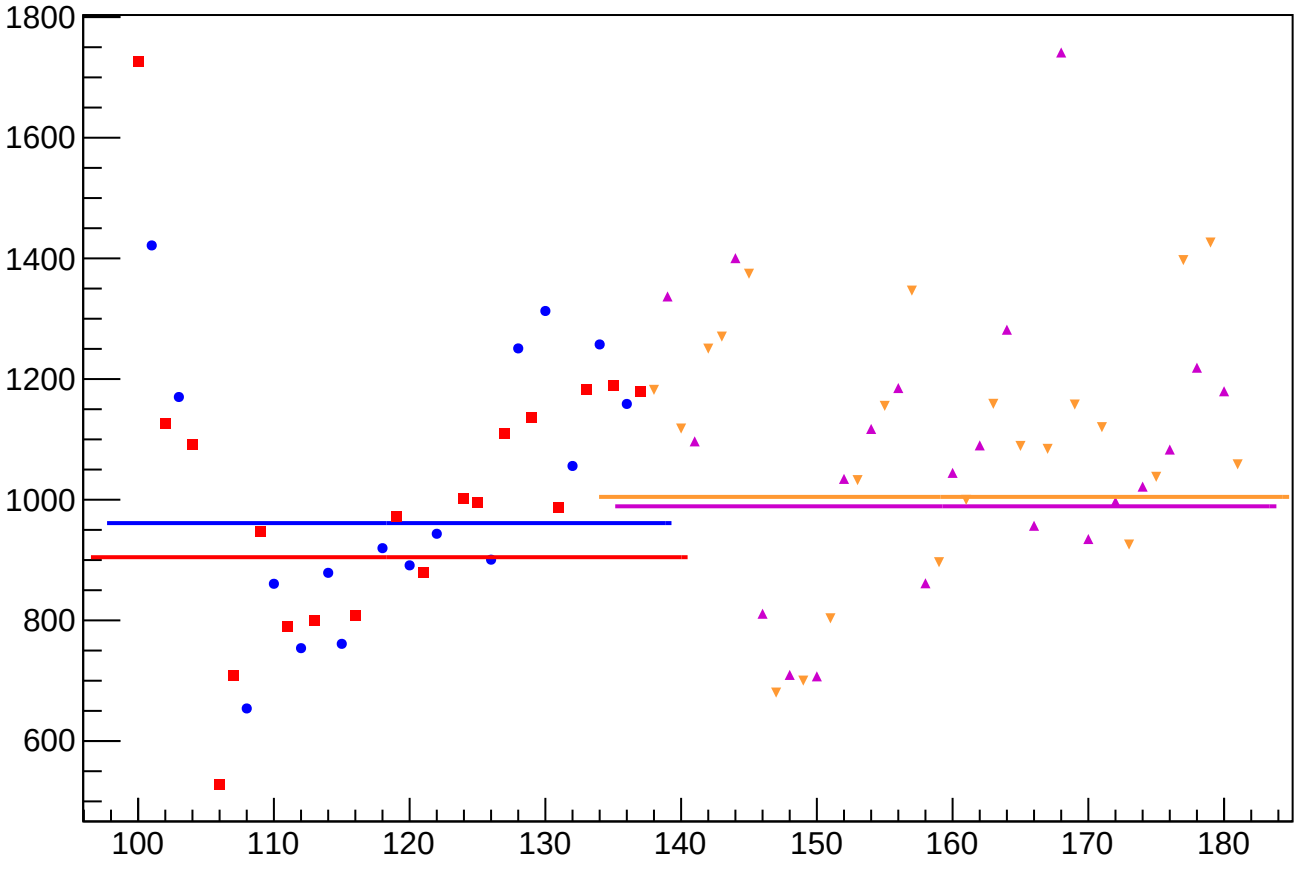
Left: -39.490+/-171.923 $\chi^2$/NDF: 39.7/43

Right: -348.248+/-249.957 $\chi^2$/NDF: 33.1/34

In: -102.288+/-203.715 $\chi^2$/NDF:28.4/36

Out: -172.685+/-197.100 $\chi^2$/NDF:45.4/41

All: -138.648+/-141.651 $\chi^2$/NDF: 73.8/78




Right In: 961.243+/-0.260 $\chi^2$/NDF: 691875.4/15

Left Out: 1004.691+/-0.171 $\chi^2$/NDF:1596140.3/22

Right Out: 904.736+/-0.241 $\chi^2$/NDF: 736484.7/18

Left In: 989.073+/-0.173 $\chi^2$/NDF:1547340.5/20

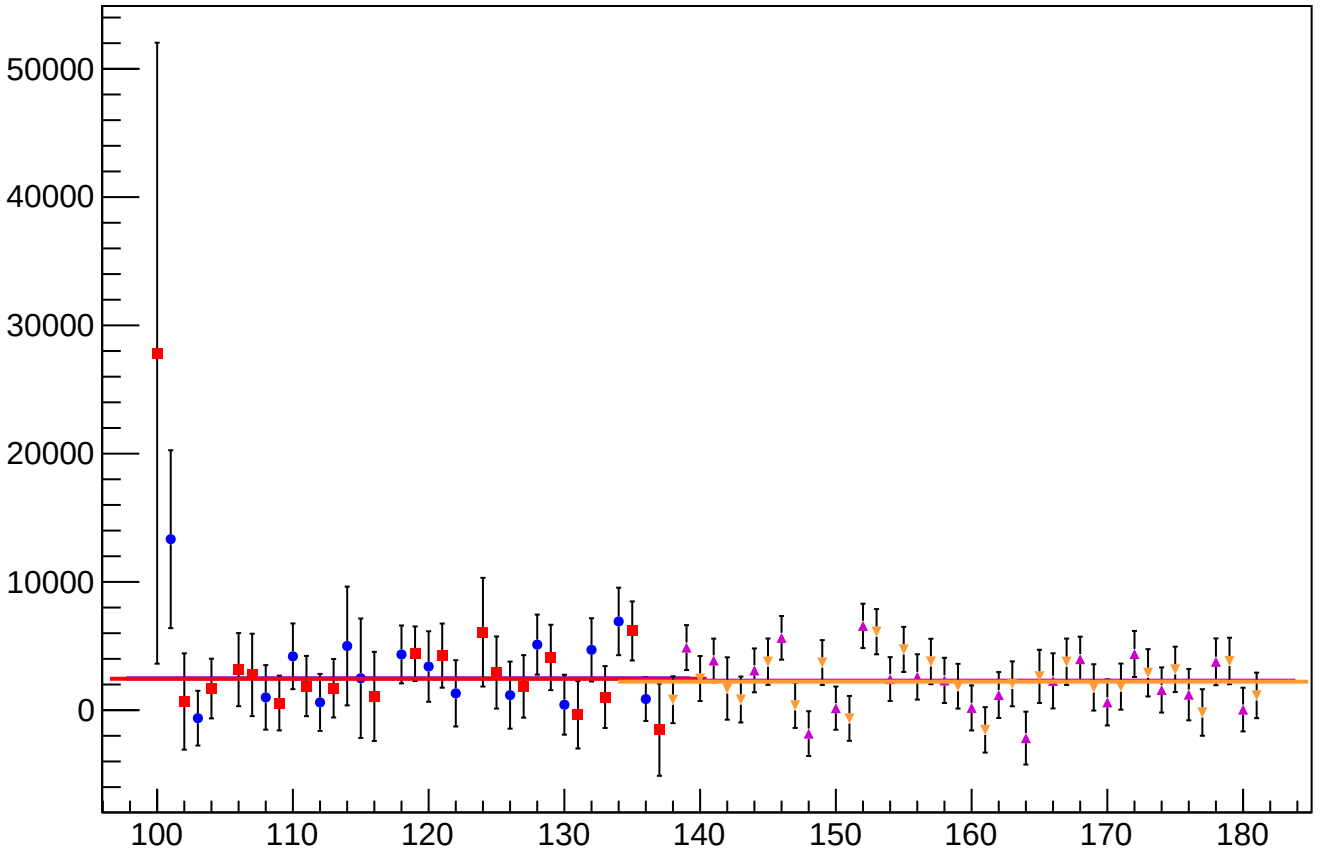
Left: 996.977+/-0.122 $\chi^2$/NDF: 3147606.2/43

Right: 930.814+/-0.177 $\chi^2$/NDF: 1453761.0/34

In: 980.542+/-0.144 $\chi^2$/NDF:2247150.8/36

Out: 971.222+/-0.139 $\chi^2$/NDF:2447182.2/41

All: 975.729+/-0.100 $\chi^2$/NDF: 4696495.0/78




Right In: 2475.228+/-633.866 $\chi^2$/NDF: 14.2/15

Left Out: 2222.256+/-377.284 $\chi^2$/NDF:23.0/22

Right Out: 2449.053+/-617.532 $\chi^2$/NDF: 10.6/18

Left In: 2300.195+/-389.039 $\chi^2$/NDF:33.0/20

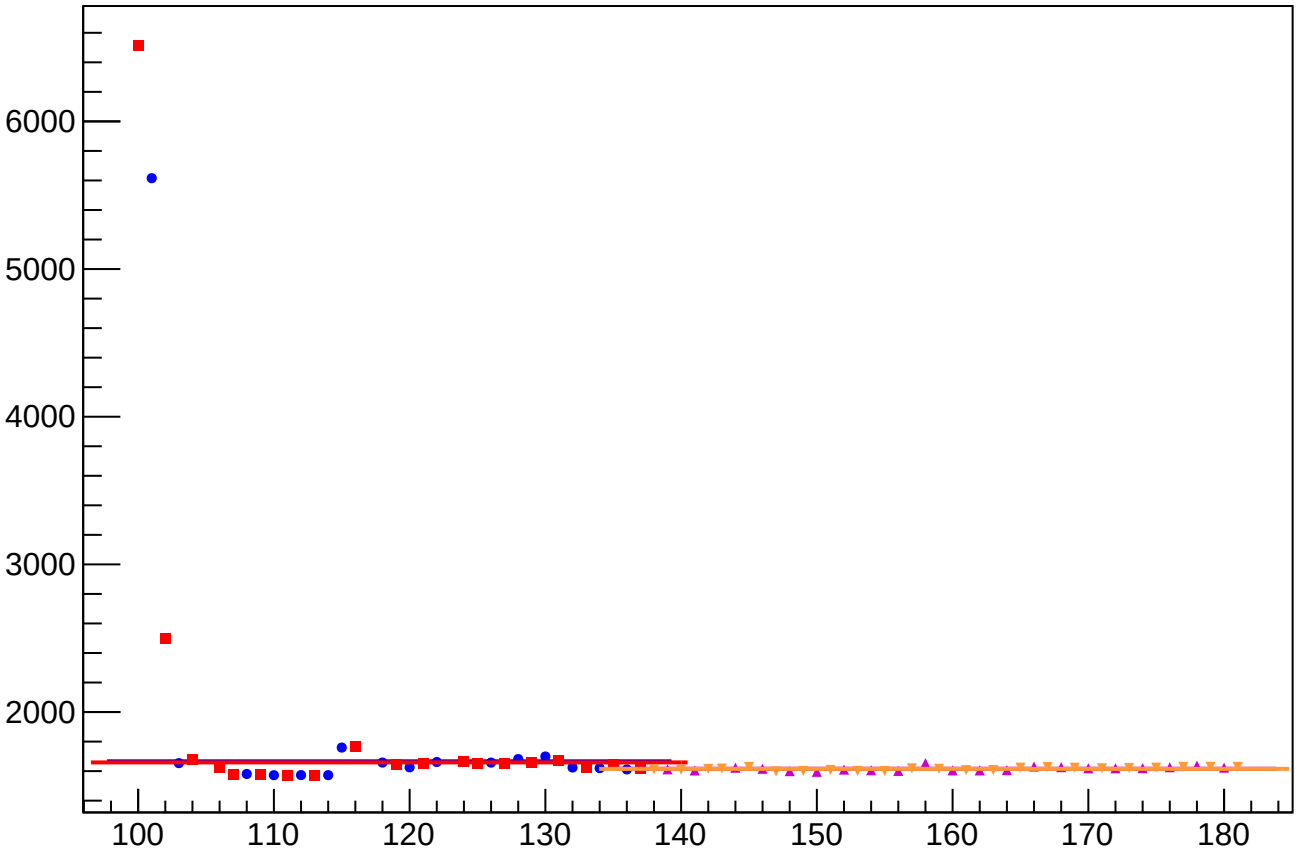
Left: 2260.030+/-270.841 $\chi^2$/NDF: 56.1/43

Right: 2461.799+/-442.323 $\chi^2$/NDF: 24.8/34

In: 2348.088+/-331.569 $\chi^2$/NDF:47.3/36

Out: 2283.901+/-321.952 $\chi^2$/NDF:33.7/41

All: 2315.050+/-230.980 $\chi^2$/NDF: 81.0/78




Right In: 1666.400+/-0.448 $\chi^2$/NDF: 662914.5/15

Left Out: 1615.387+/-0.267 $\chi^2$/NDF:1427.7/22

Right Out: 1659.004+/-0.437 $\chi^2$/NDF: 193223.5/18

Left In: 1615.997+/-0.275 $\chi^2$/NDF:2525.1/20

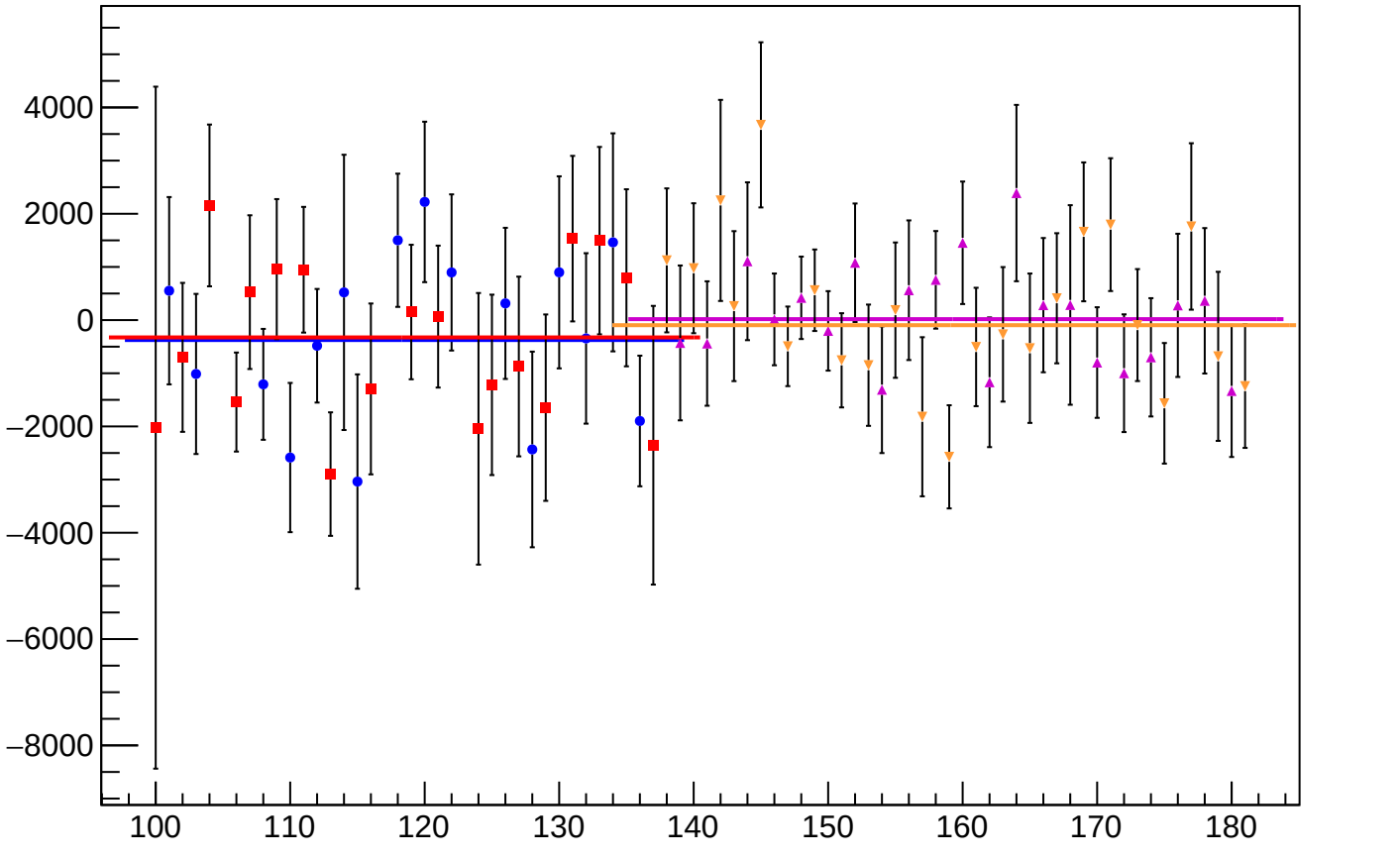
Left: 1615.683+/-0.192 $\chi^2$/NDF: 3955.3/43

Right: 1662.606+/-0.313 $\chi^2$/NDF: 856277.7/34

In: 1629.789+/-0.234 $\chi^2$/NDF:674625.0/36

Out: 1627.242+/-0.228 $\chi^2$/NDF:201917.1/41

All: 1628.478+/-0.163 $\chi^2$/NDF: 876602.7/78




Right In: -374.590+/-367.943 $\chi^2$/NDF: 15.7/15

Left Out: -95.676+/-241.670 $\chi^2$/NDF:27.7/22

Right Out: -325.670+/-340.619 $\chi^2$/NDF: 17.4/18

Left In: 18.081+/-244.630 $\chi^2$/NDF:11.9/20

Left: -39.490+/-171.924 $\chi^2$/NDF: 39.7/43

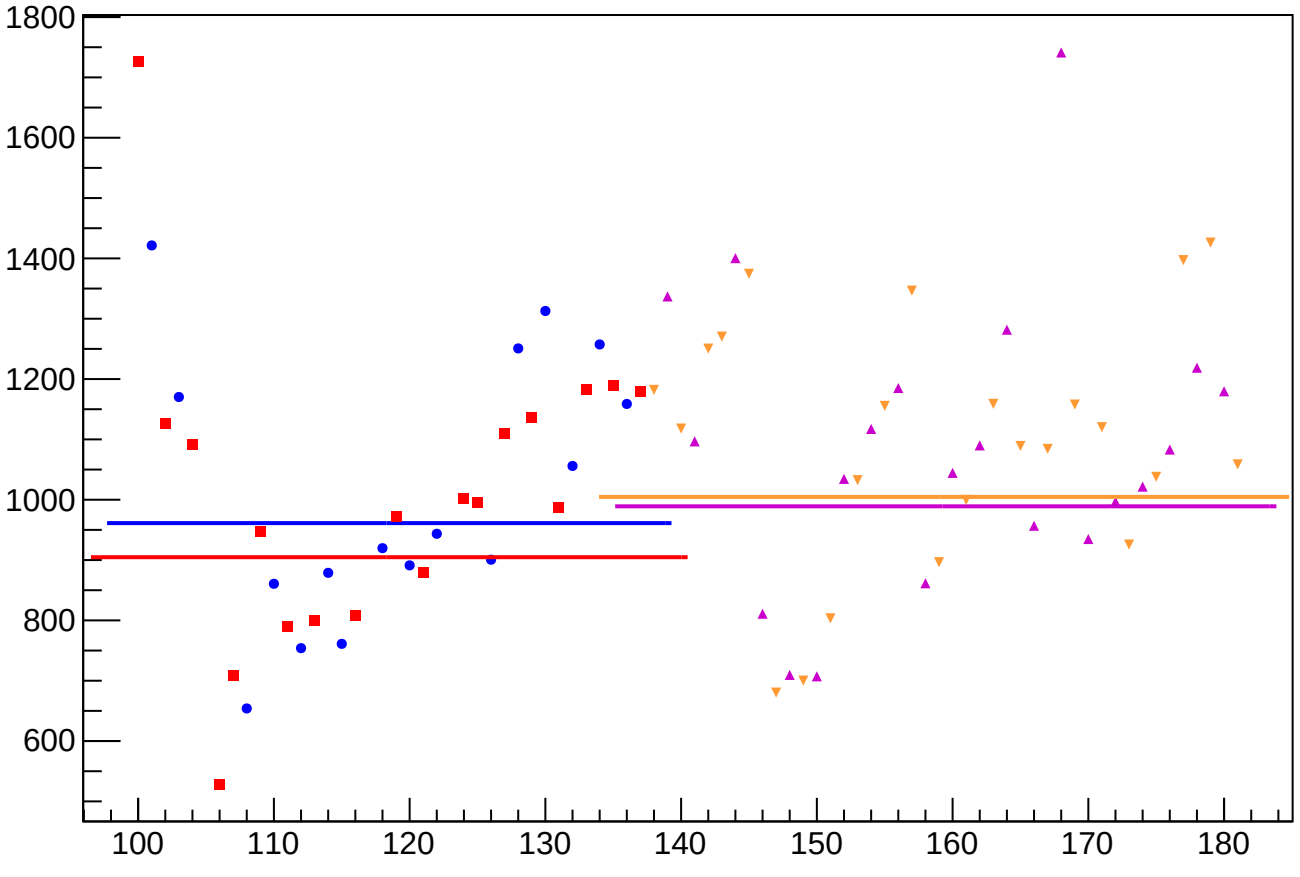
Right: -348.247+/-249.956 $\chi^2$/NDF: 33.1/34

In: -102.288+/-203.715 $\chi^2$/NDF:28.4/36

Out: -172.686+/-197.100 $\chi^2$/NDF:45.4/41

All: -138.649+/-141.651 $\chi^2$/NDF: 73.8/78

asym_usr_atr1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 961.239+/-0.260 $\chi^2$/NDF: 691883.4/15

Left Out: 1004.693+/-0.171 $\chi^2$/NDF:1596142.5/22

Right Out: 904.734+/-0.241 $\chi^2$/NDF: 736482.2/18

Left In: 989.075+/-0.173 $\chi^2$/NDF:1547342.9/20

Left: 996.979+/-0.122 $\chi^2$/NDF: 3147610.8/43

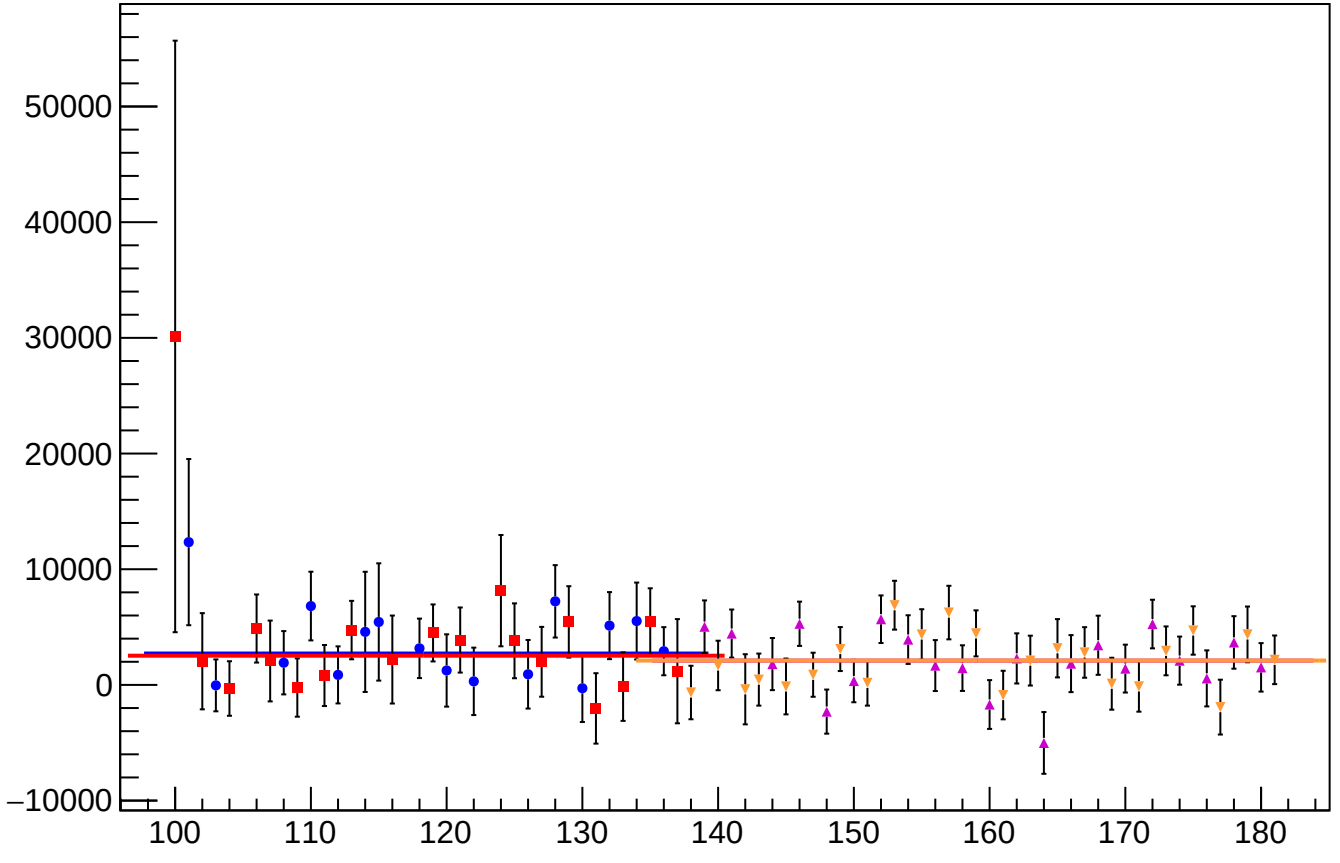
Right: 930.811+/-0.177 $\chi^2$/NDF: 1453765.4/34

In: 980.542+/-0.144 $\chi^2$/NDF:2247164.5/36

Out: 971.223+/-0.139 $\chi^2$/NDF:2447192.7/41

All: 975.729+/-0.100 $\chi^2$/NDF: 4696519.1/78

# asym_usr_atr1_avg_mean vs Slug, Sign Corrected




Right In: 2711.394+/-735.088 $\chi^2$/NDF: 12.1/15

Left Out: 2106.983+/-455.771 $\chi^2$/NDF:25.6/22

Right Out: 2525.536+/-706.449 $\chi^2$/NDF: 13.2/18

Left In: 2100.367+/-467.626 $\chi^2$/NDF:29.9/20

Left: 2103.760+/-326.389 $\chi^2$/NDF: 55.5/43

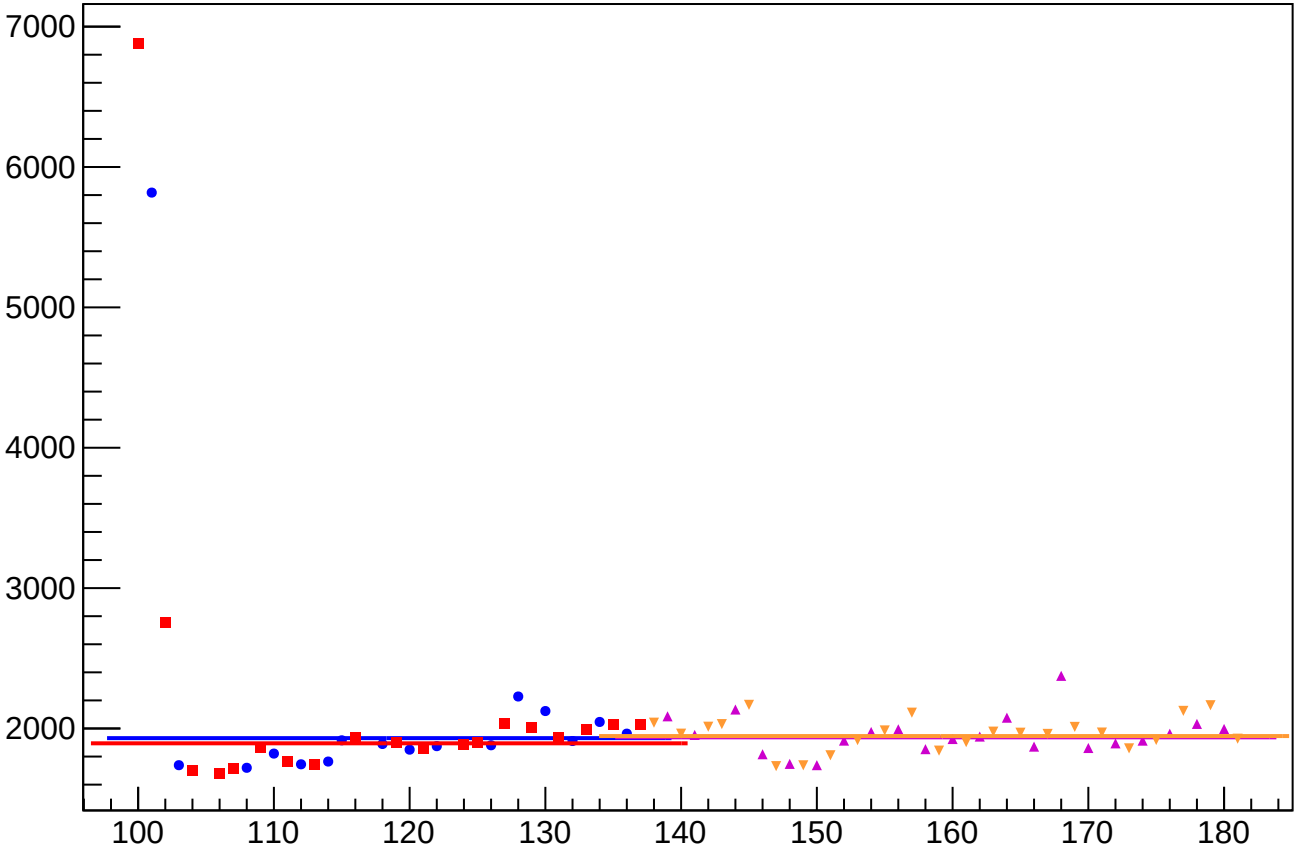
Right: 2614.774+/-509.359 $\chi^2$/NDF: 25.4/34

In: 2276.402+/-394.556 $\chi^2$/NDF:42.5/36

Out: 2229.996+/-382.983 $\chi^2$/NDF:39.1/41

All: 2252.508+/-274.810 $\chi^2$/NDF: 81.6/78

# asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 1931.250+/-0.520 $\chi^2$/NDF: 661227.1/15

Left Out: 1946.019+/-0.322 $\chi^2$/NDF:135760.3/22

Right Out: 1894.349+/-0.500 $\chi^2$/NDF: 220541.1/18

Left In: 1936.927+/-0.331 $\chi^2$/NDF:156108.6/20

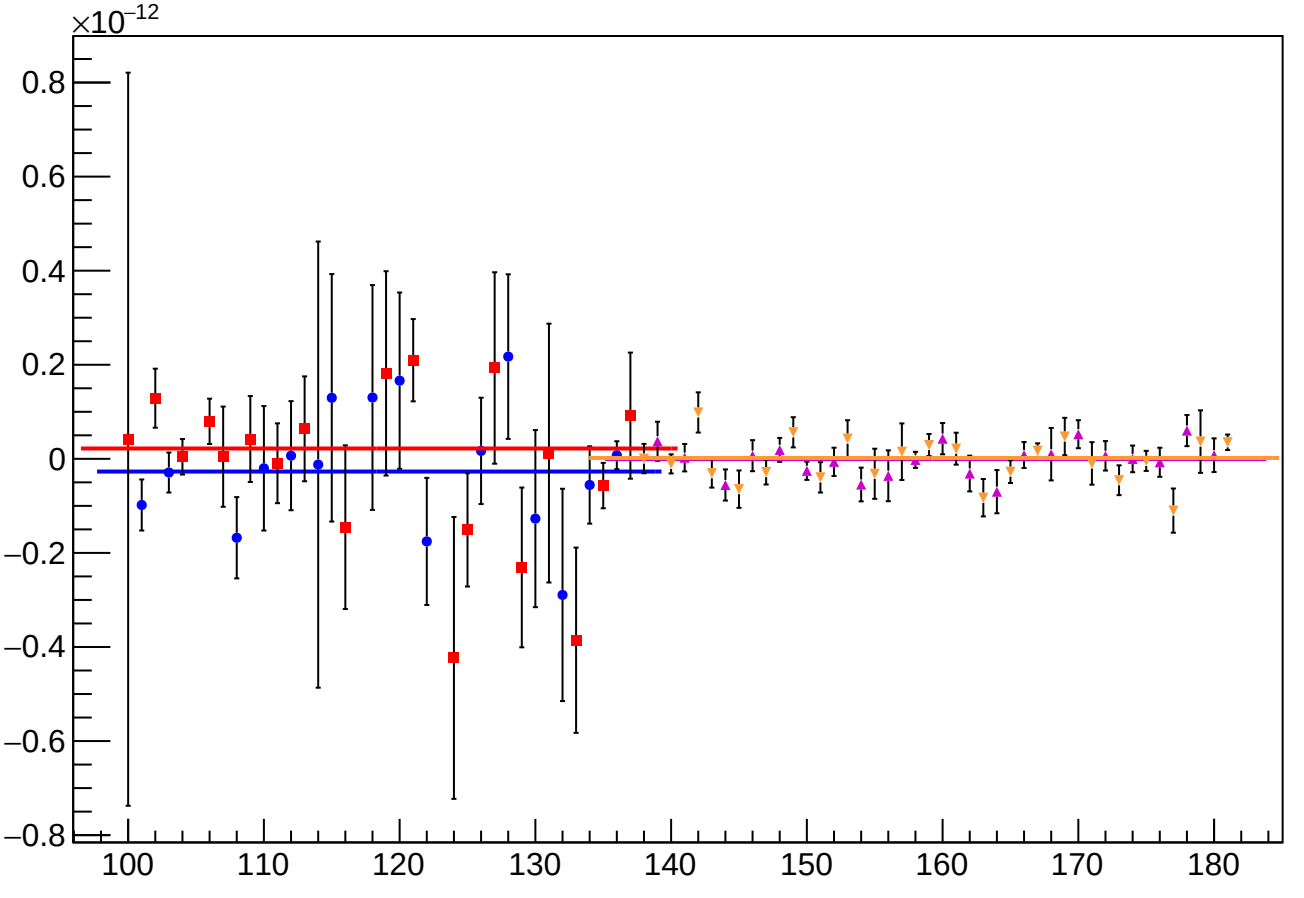
Left: 1941.590+/-0.231 $\chi^2$/NDF: 292256.6/43

Right: 1912.067+/-0.360 $\chi^2$/NDF: 884388.3/34

In: 1935.291+/-0.279 $\chi^2$/NDF:817420.5/36

Out: 1930.833+/-0.271 $\chi^2$/NDF:363856.1/41

All: 1932.996+/-0.194 $\chi^2$/NDF: 1181408.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:39.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:20.1/20

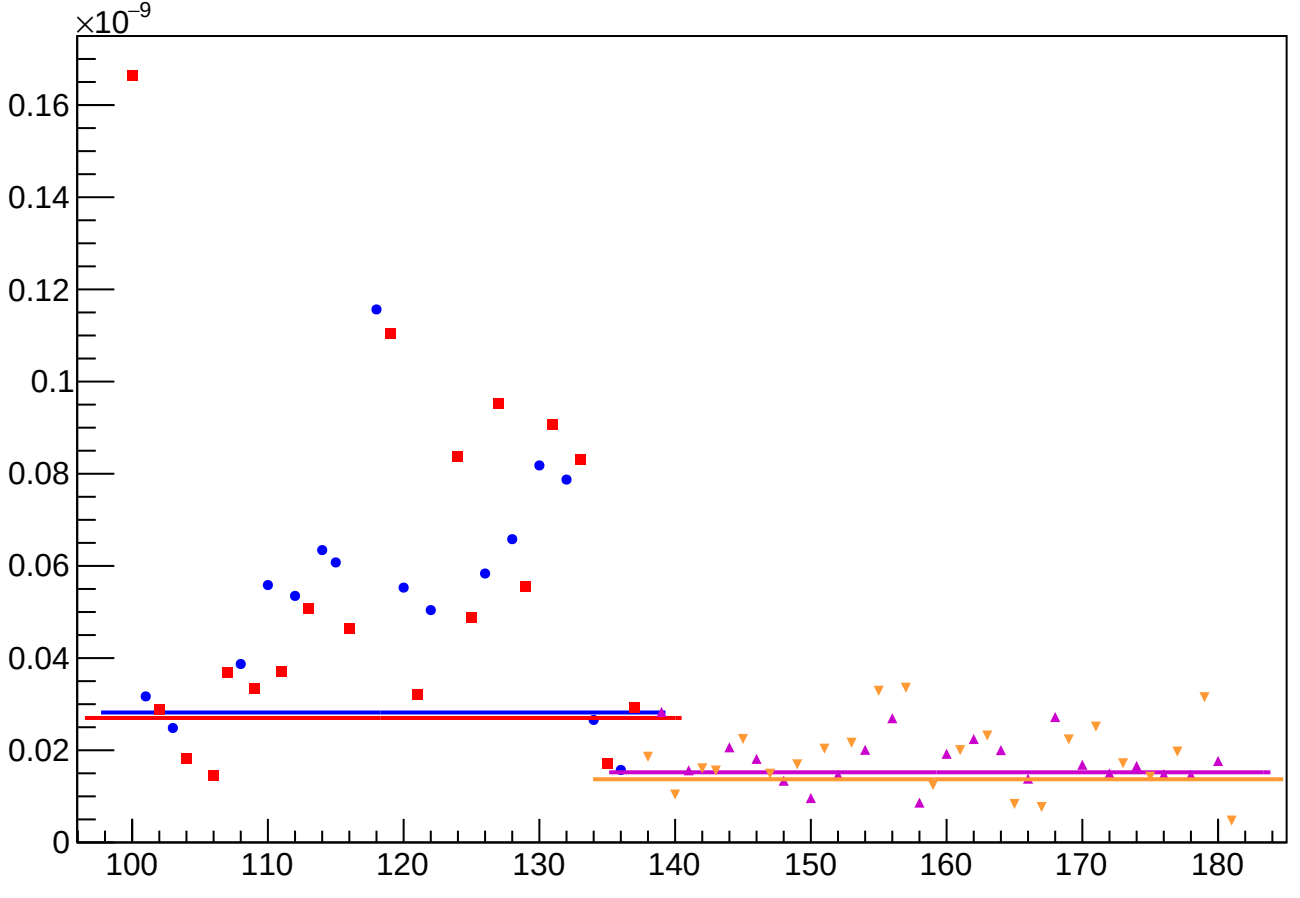
Left: 0.000+/-0.000 $\chi^2$/NDF: 59.3/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:34.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:65.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 100.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1490571.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2471518.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1556165.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1114270.8/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3643981.6/43

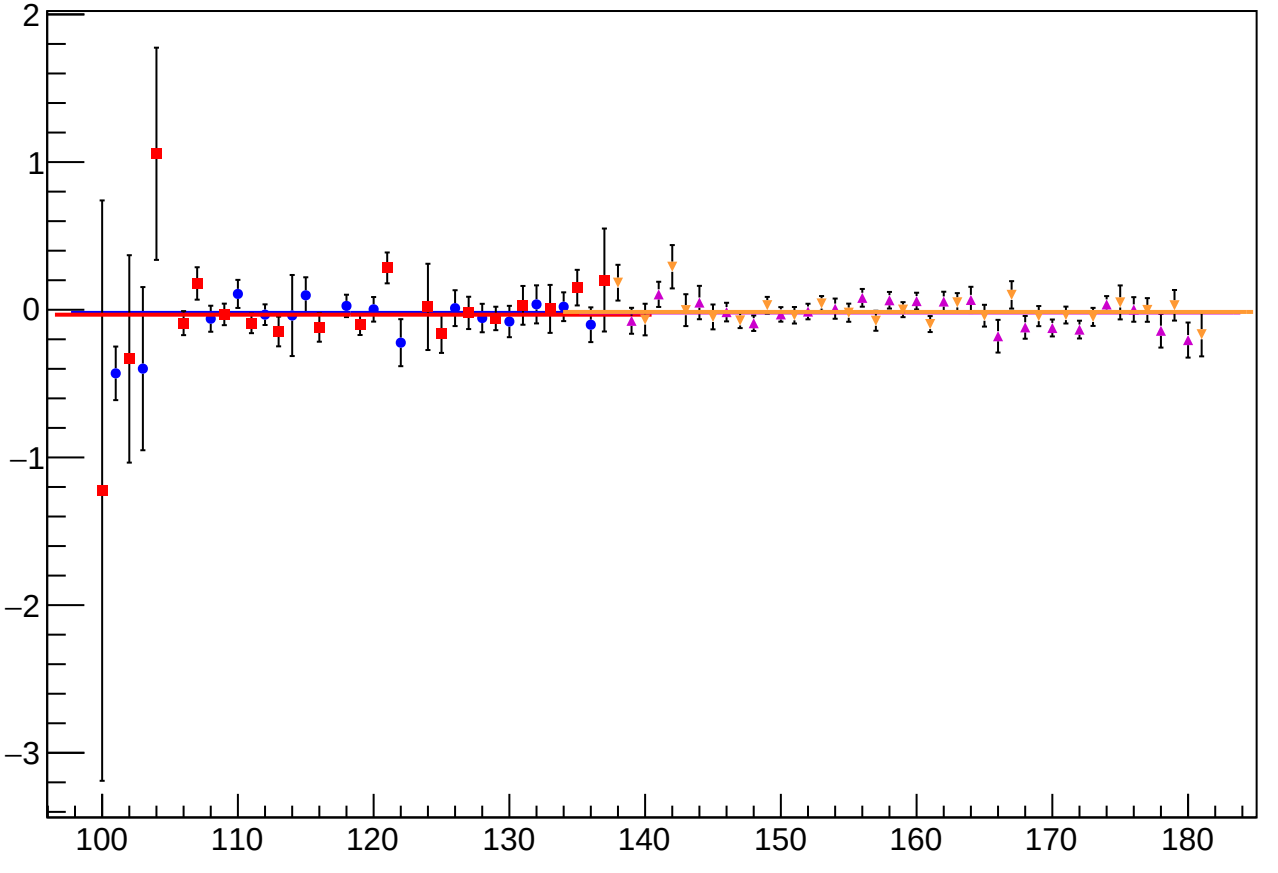
Right: 0.000+/-0.000 $\chi^2$/NDF: 3050538.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:3425565.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4888608.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8397057.0/78

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: -0.015+/-0.015 $\chi^2$/NDF:18.8/22

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: -0.018+/-0.015 $\chi^2$/NDF:29.4/20

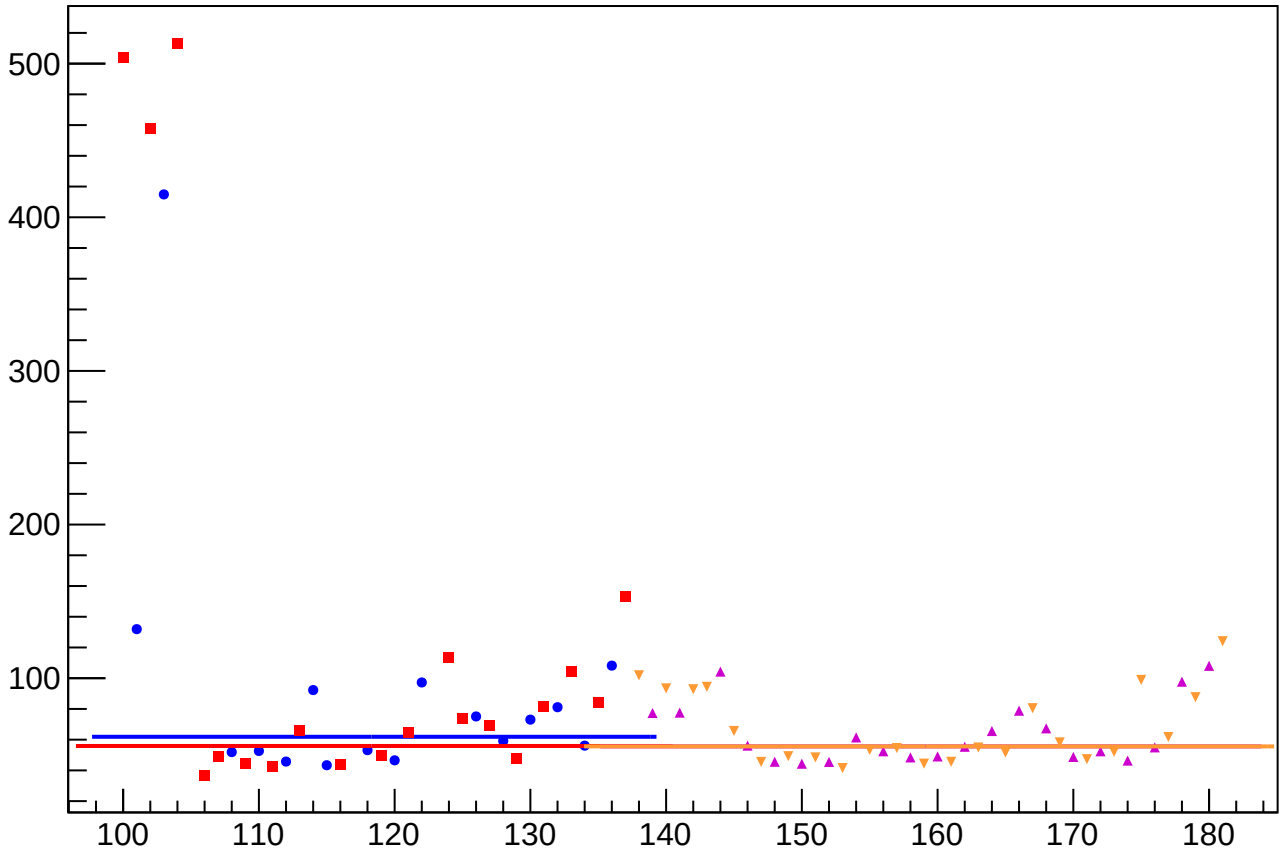
Left: -0.017+/-0.010 $\chi^2$/NDF: 48.3/43

Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.019+/-0.013 $\chi^2$/NDF:41.4/36

Out: -0.020+/-0.012 $\chi^2$/NDF:43.6/41

All: -0.019+/-0.009 $\chi^2$/NDF: 85.1/78




Right In: 61.876+/-0.019 $\chi^2$/NDF: 1937953.9/15

Left Out: 55.619+/-0.010 $\chi^2$/NDF:2522902.5/22

Right Out: 55.887+/-0.017 $\chi^2$/NDF: 2591275.8/18

Left In: 55.625+/-0.010 $\chi^2$/NDF:1866511.2/20

Left: 55.622+/-0.007 $\chi^2$/NDF: 4389413.9/43

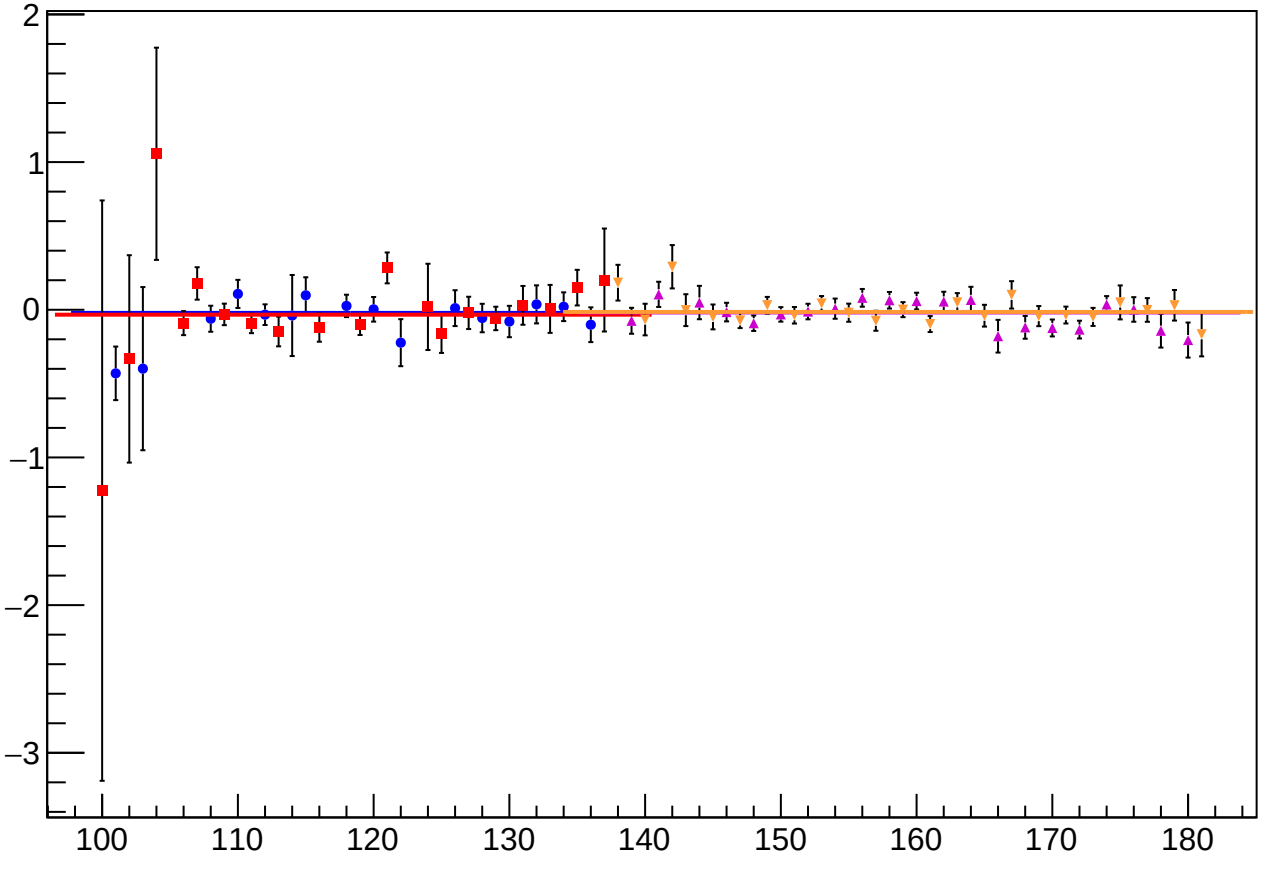
Right: 58.651+/-0.013 $\chi^2$/NDF: 4584001.9/34

In: 57.088+/-0.009 $\chi^2$/NDF:3889348.4/36

Out: 55.688+/-0.009 $\chi^2$/NDF:5114355.0/41

All: 56.368+/-0.006 $\chi^2$/NDF: 9015904.0/78

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: -0.015+/-0.015 $\chi^2$/NDF:18.8/22

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: -0.018+/-0.015 $\chi^2$/NDF:29.4/20

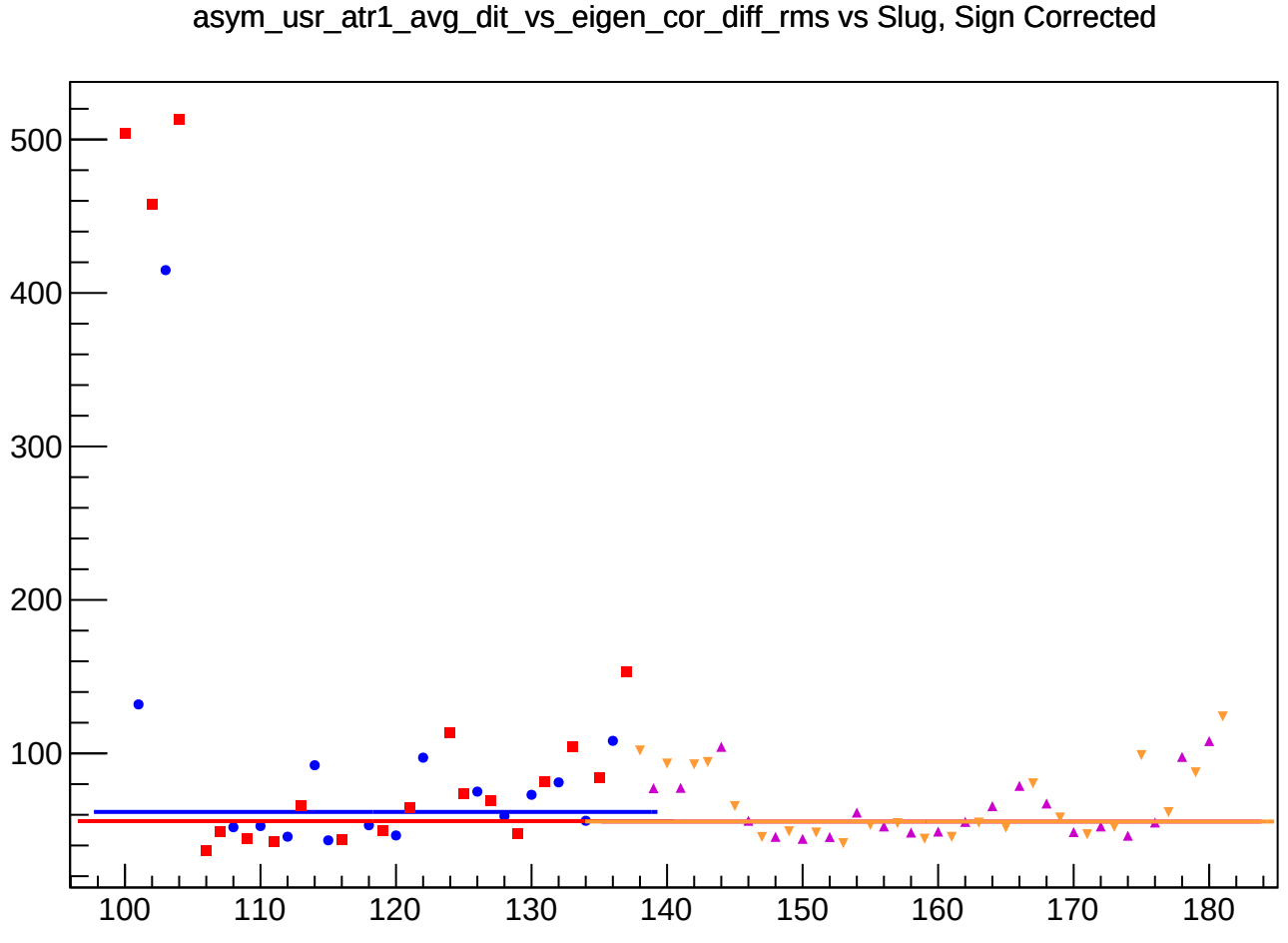
Left: -0.017+/-0.010 $\chi^2$/NDF: 48.3/43

Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.019+/-0.013 $\chi^2$/NDF:41.4/36

Out: -0.020+/-0.012 $\chi^2$/NDF:43.6/41

All: -0.019+/-0.009 $\chi^2$/NDF: 85.1/78




Right In: 61.876+/-0.019 $\chi^2$/NDF: 1937953.9/15

Left Out: 55.619+/-0.010 $\chi^2$/NDF:2522902.5/22

Right Out: 55.887+/-0.017 $\chi^2$/NDF: 2591275.8/18

Left In: 55.625+/-0.010 $\chi^2$/NDF:1866511.2/20

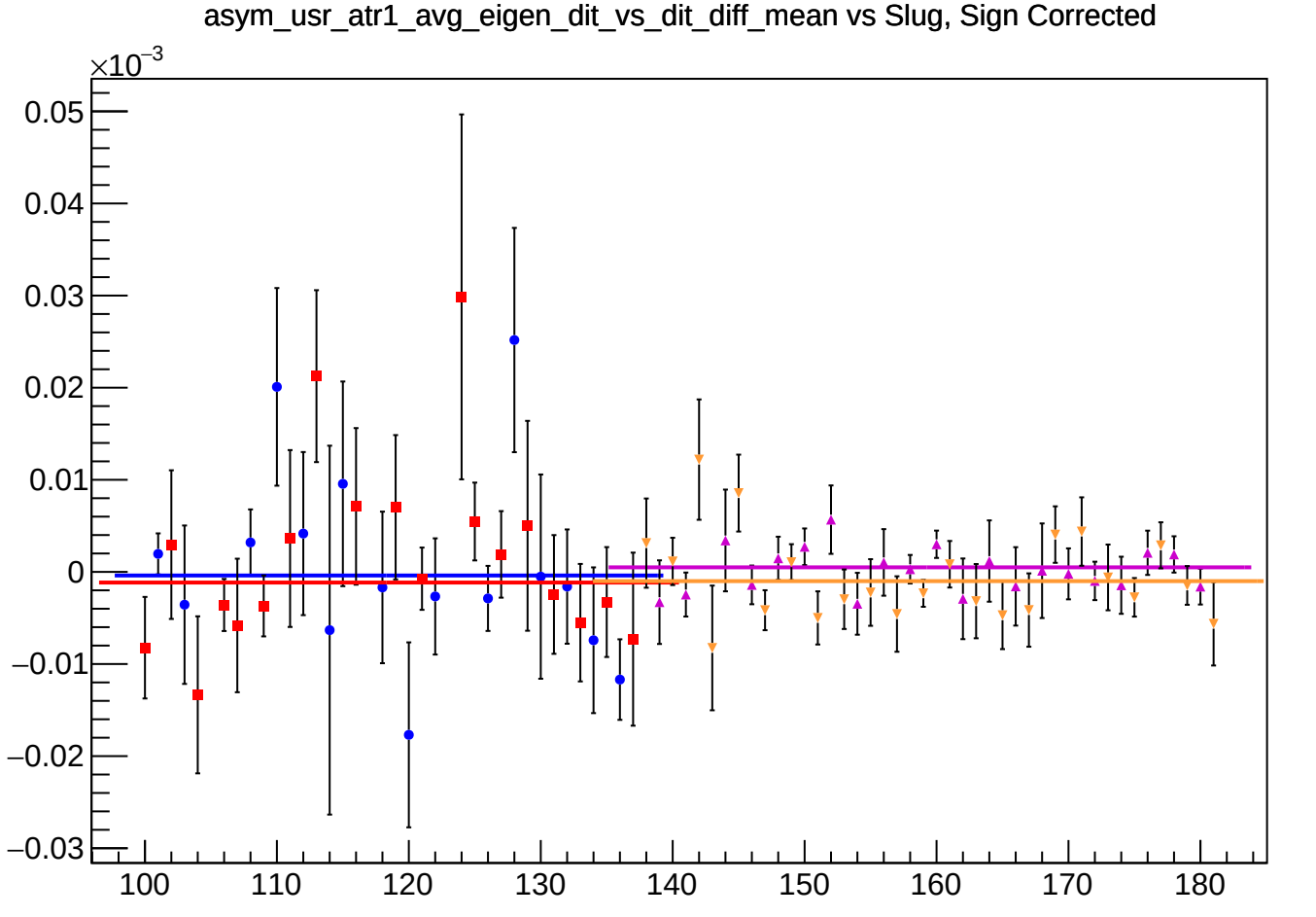
Left: 55.622+/-0.007 $\chi^2$/NDF: 4389413.9/43

Right: 58.651+/-0.013 $\chi^2$/NDF: 4584001.9/34

In: 57.088+/-0.009 $\chi^2$/NDF:3889348.4/36

Out: 55.688+/-0.009 $\chi^2$/NDF:5114355.0/41

All: 56.368+/-0.006 $\chi^2$/NDF: 9015904.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:30.6/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.9/20

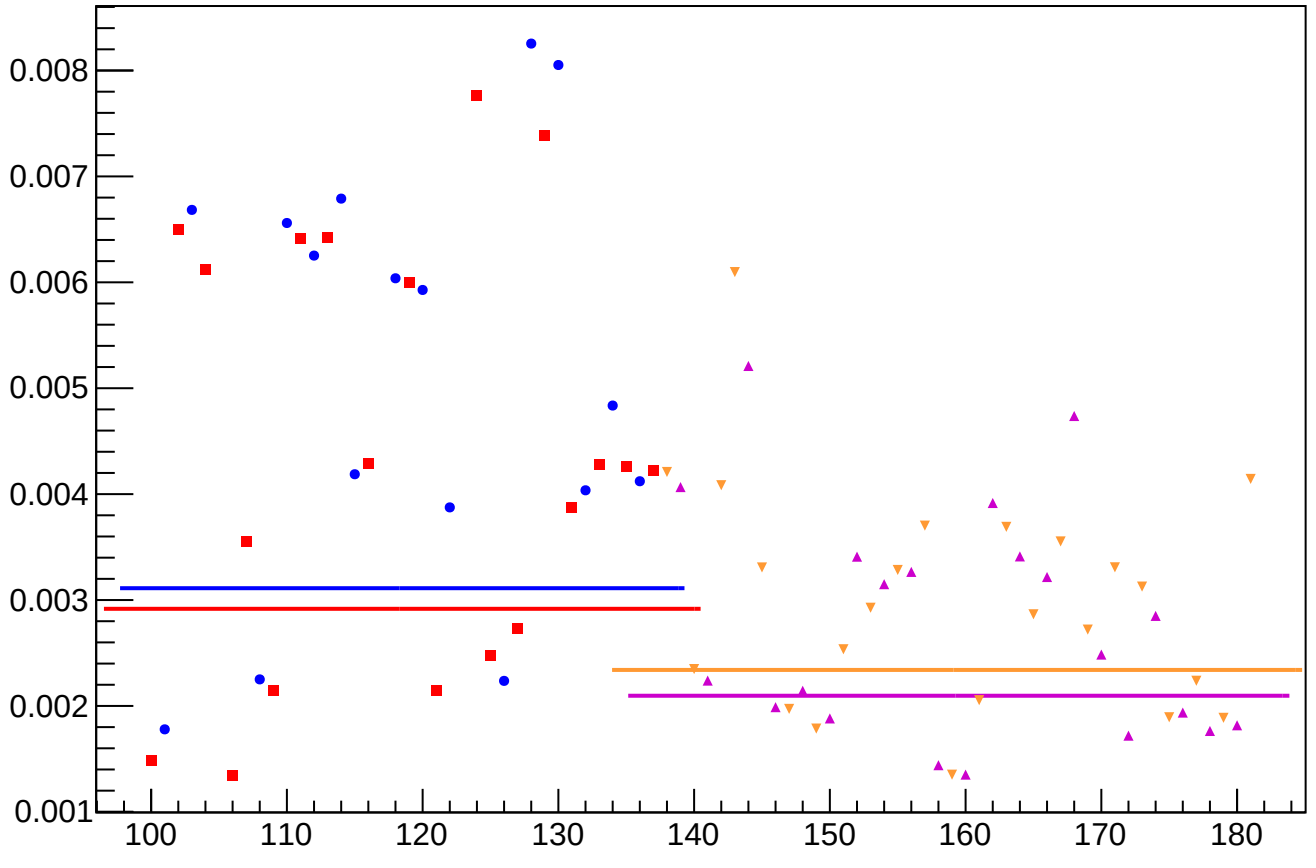
Left: -0.000+/-0.000 $\chi^2$/NDF: 49.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:37.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:51.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 92.5/78




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3283915.1/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3975005.7/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3295506.1/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:4088763.7/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 8248098.5/43

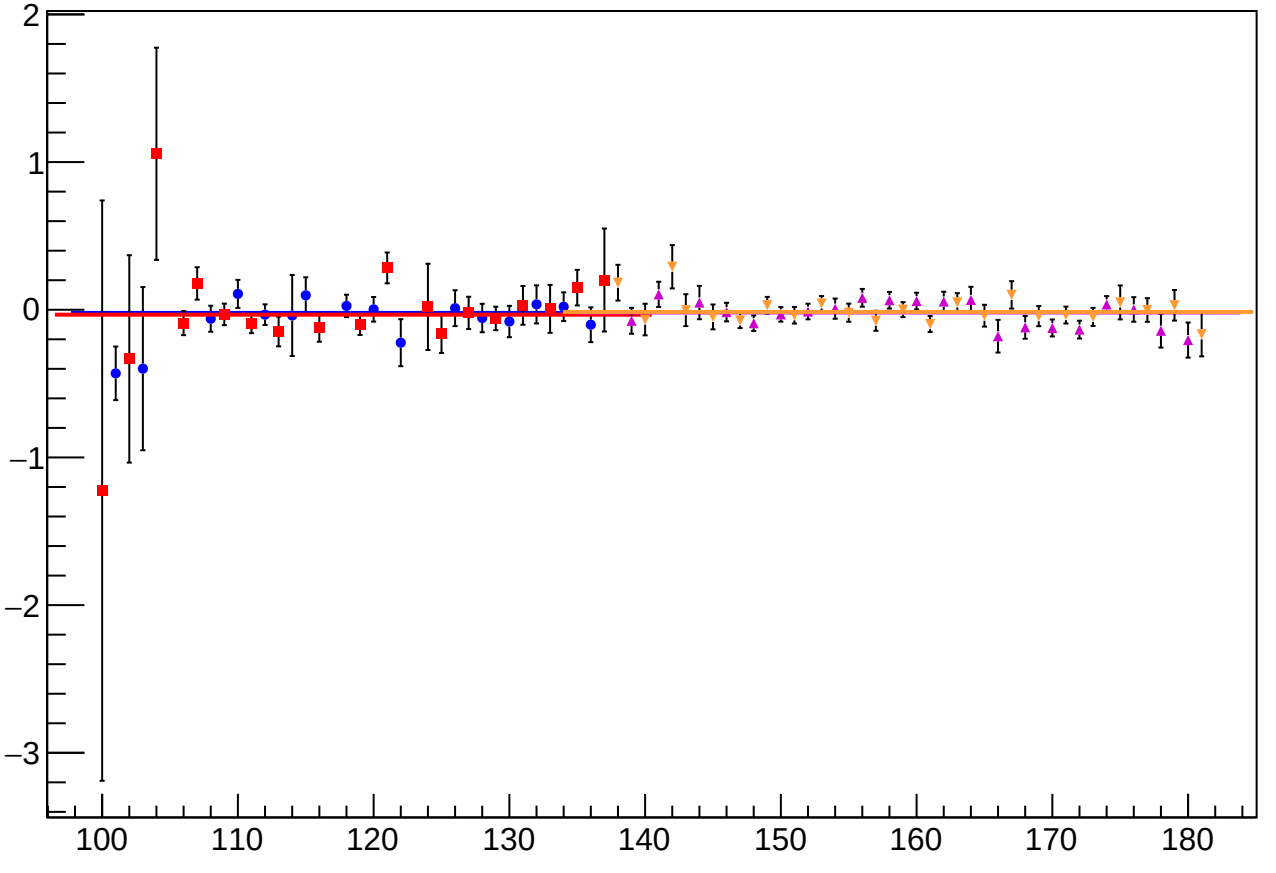
Right: 0.003+/-0.000 $\chi^2$/NDF: 6602078.2/34

In: 0.002+/-0.000 $\chi^2$/NDF:8369667.4/36

Out: 0.002+/-0.000 $\chi^2$/NDF:7617797.1/41

All: 0.002+/-0.000 $\chi^2$/NDF: 16141228.4/78

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: -0.015+/-0.015 $\chi^2$/NDF:18.8/22

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: -0.018+/-0.015 $\chi^2$/NDF:29.4/20

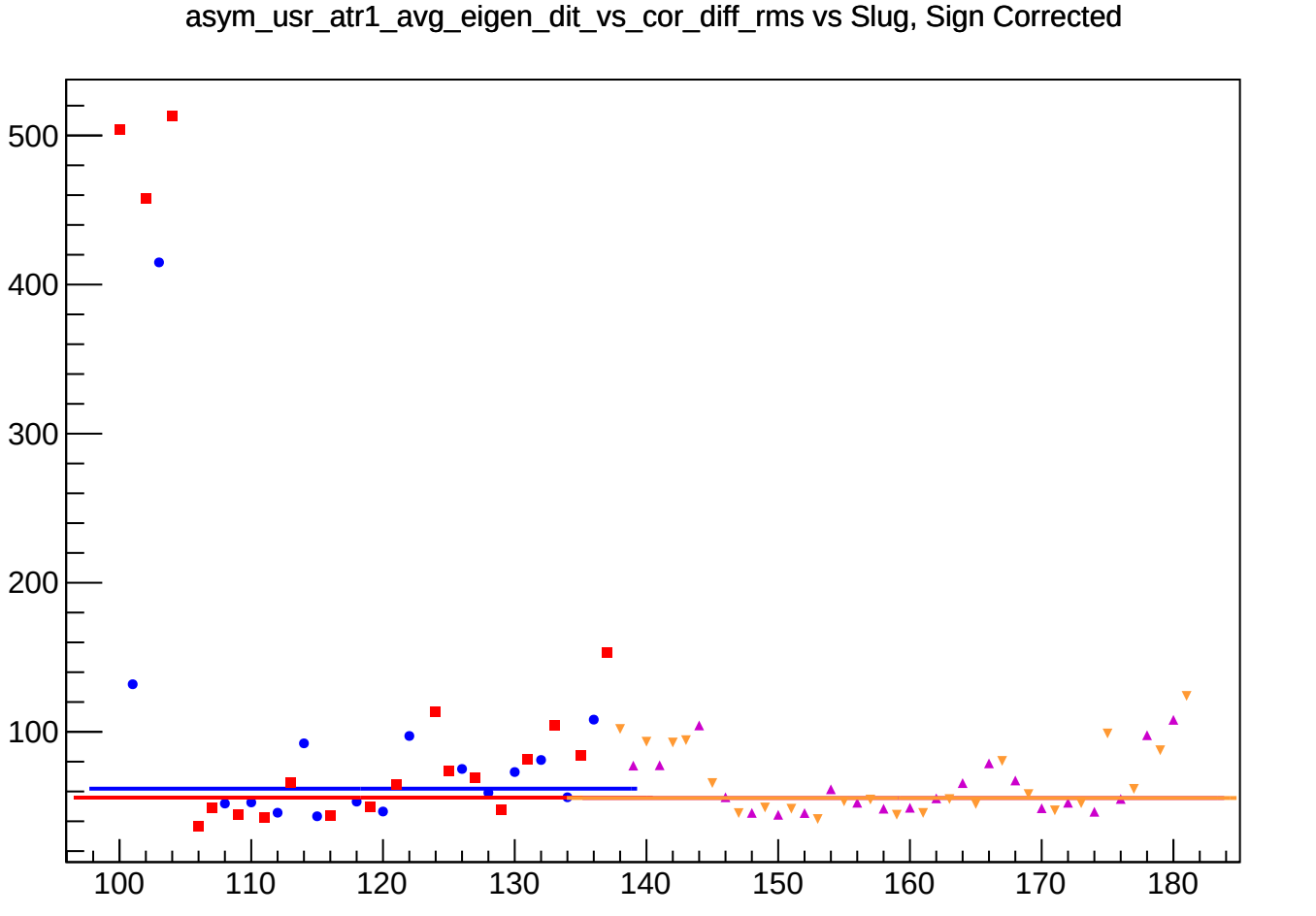
Left: -0.017+/-0.010 $\chi^2$/NDF: 48.3/43

Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.019+/-0.013 $\chi^2$/NDF:41.4/36

Out: -0.020+/-0.012 $\chi^2$/NDF:43.6/41

All: -0.019+/-0.009 $\chi^2$/NDF: 85.1/78




Right In: 61.875+/-0.019 $\chi^2$/NDF: 1937904.4/15

Left Out: 55.619+/-0.010 $\chi^2$/NDF:2522961.6/22

Right Out: 55.886+/-0.017 $\chi^2$/NDF: 2591233.7/18

Left In: 55.625+/-0.010 $\chi^2$/NDF:1866507.7/20

Left: 55.622+/-0.007 $\chi^2$/NDF: 4389469.5/43

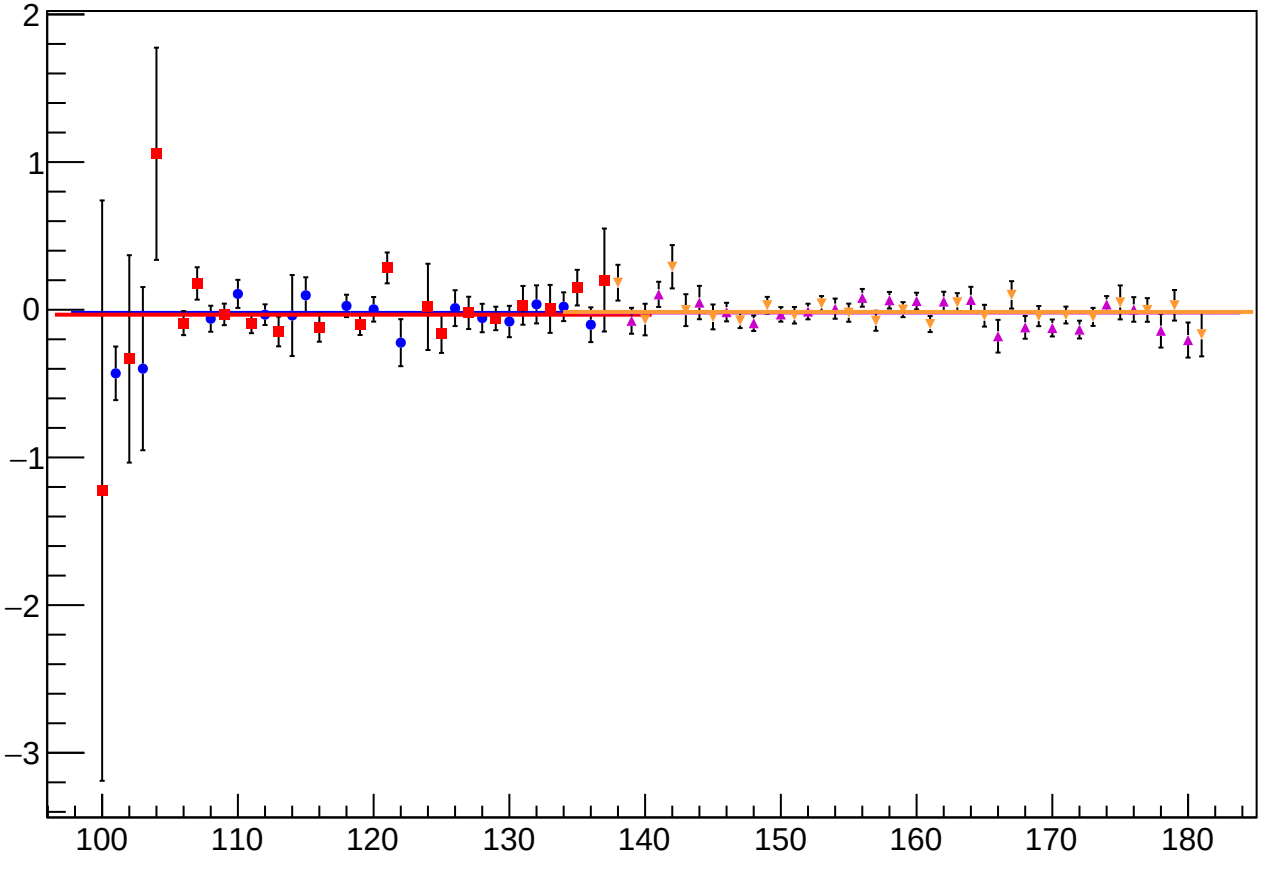
Right: 58.650+/-0.013 $\chi^2$/NDF: 4583914.2/34

In: 57.088+/-0.009 $\chi^2$/NDF:3889274.7/36

Out: 55.688+/-0.009 $\chi^2$/NDF:5114370.8/41

All: 56.368+/-0.006 $\chi^2$/NDF: 9015847.1/78

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: -0.015+/-0.015 $\chi^2$/NDF:18.8/22

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: -0.018+/-0.015 $\chi^2$/NDF:29.4/20

Left: -0.017+/-0.010 $\chi^2$/NDF: 48.3/43

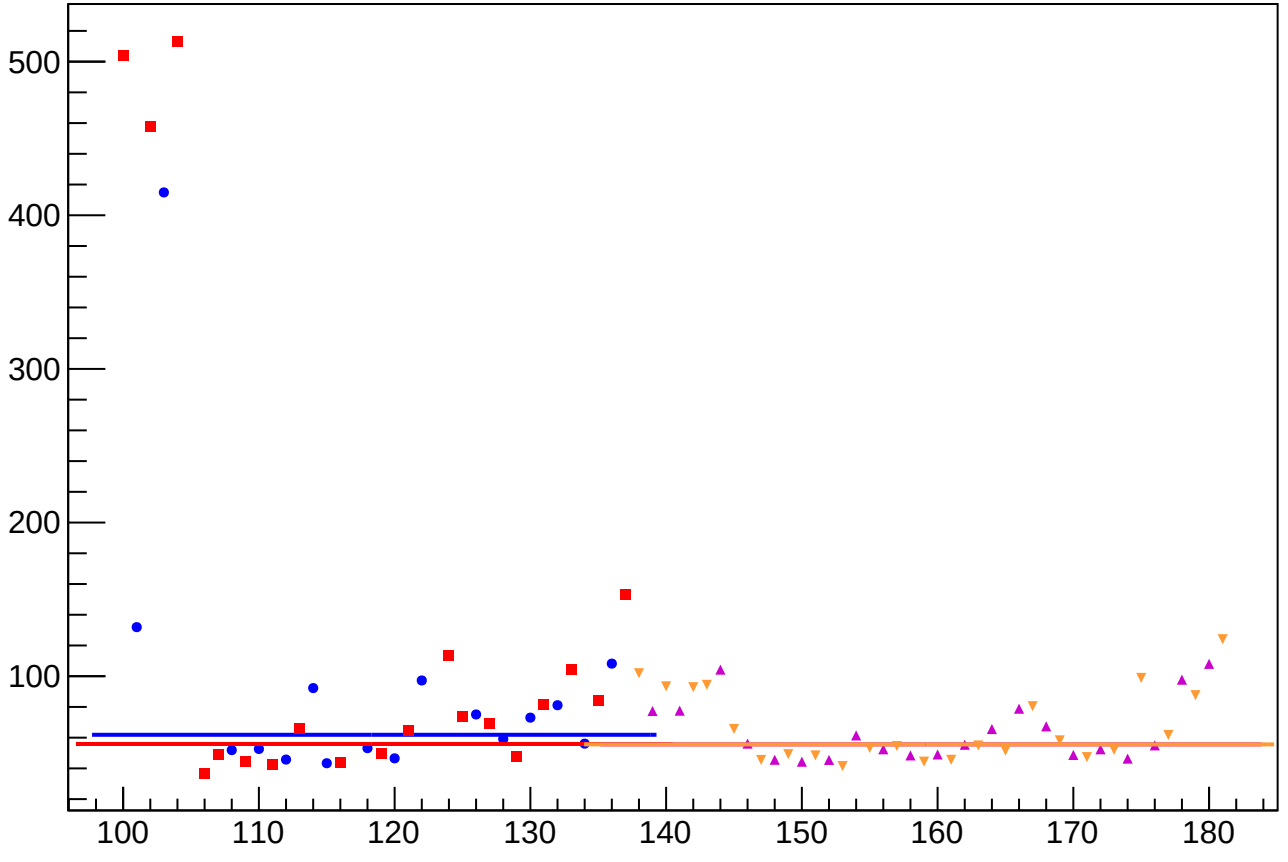
Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.019+/-0.013 $\chi^2$/NDF:41.4/36

Out: -0.020+/-0.012 $\chi^2$/NDF:43.6/41

All: -0.019+/-0.009 $\chi^2$/NDF: 85.1/78

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 61.875+/-0.019 $\chi^2$/NDF: 1937904.4/15

Left Out: 55.619+/-0.010 $\chi^2$/NDF:2522961.6/22

Right Out: 55.886+/-0.017 $\chi^2$/NDF: 2591233.7/18

Left In: 55.625+/-0.010 $\chi^2$/NDF:1866507.7/20

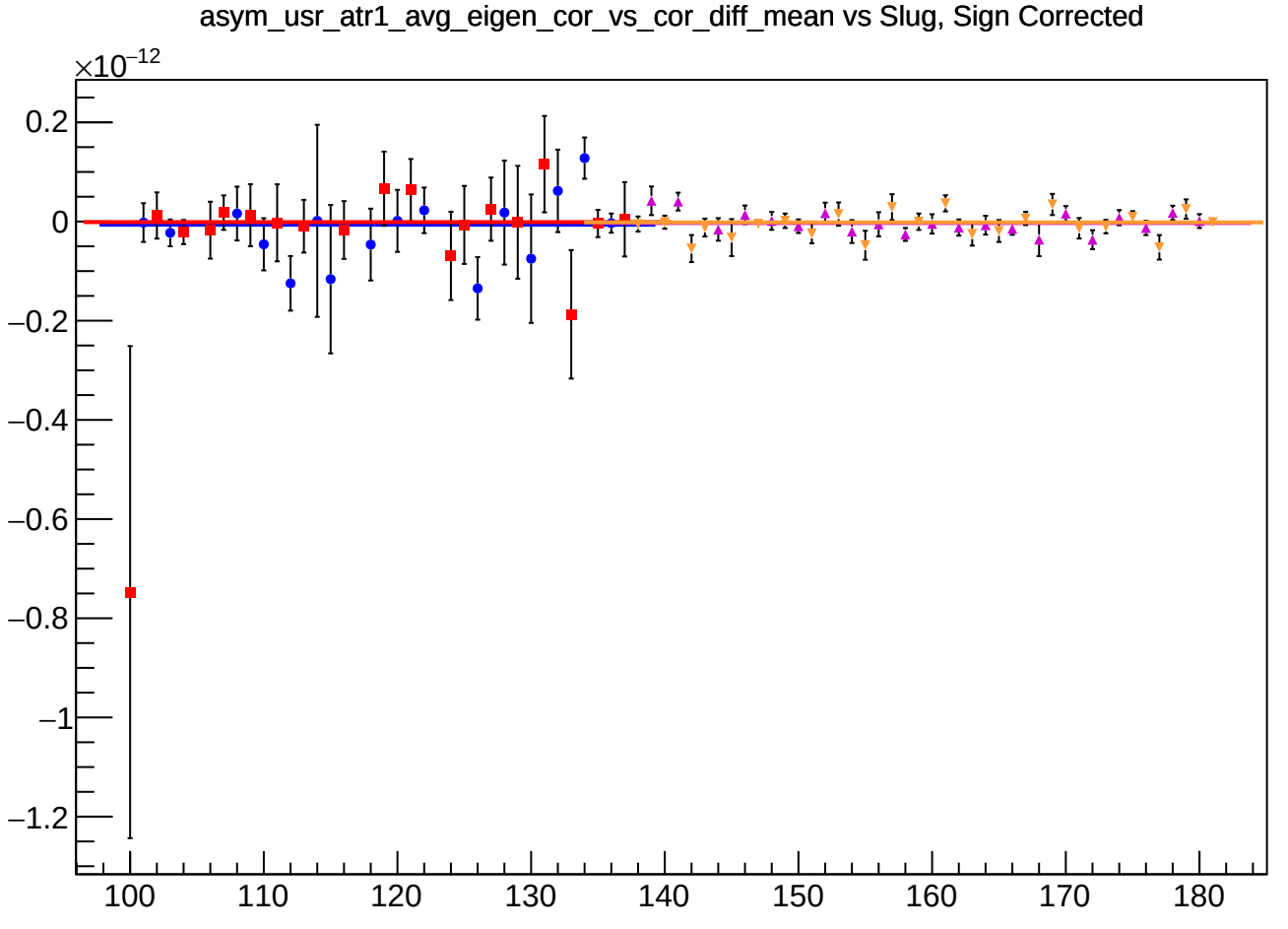
Left: 55.622+/-0.007 $\chi^2$/NDF: 4389469.5/43

Right: 58.650+/-0.013 $\chi^2$/NDF: 4583914.2/34

In: 57.088+/-0.009 $\chi^2$/NDF:3889274.7/36

Out: 55.688+/-0.009 $\chi^2$/NDF:5114370.8/41

All: 56.368+/-0.006 $\chi^2$/NDF: 9015847.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.6/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 9.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:24.1/20

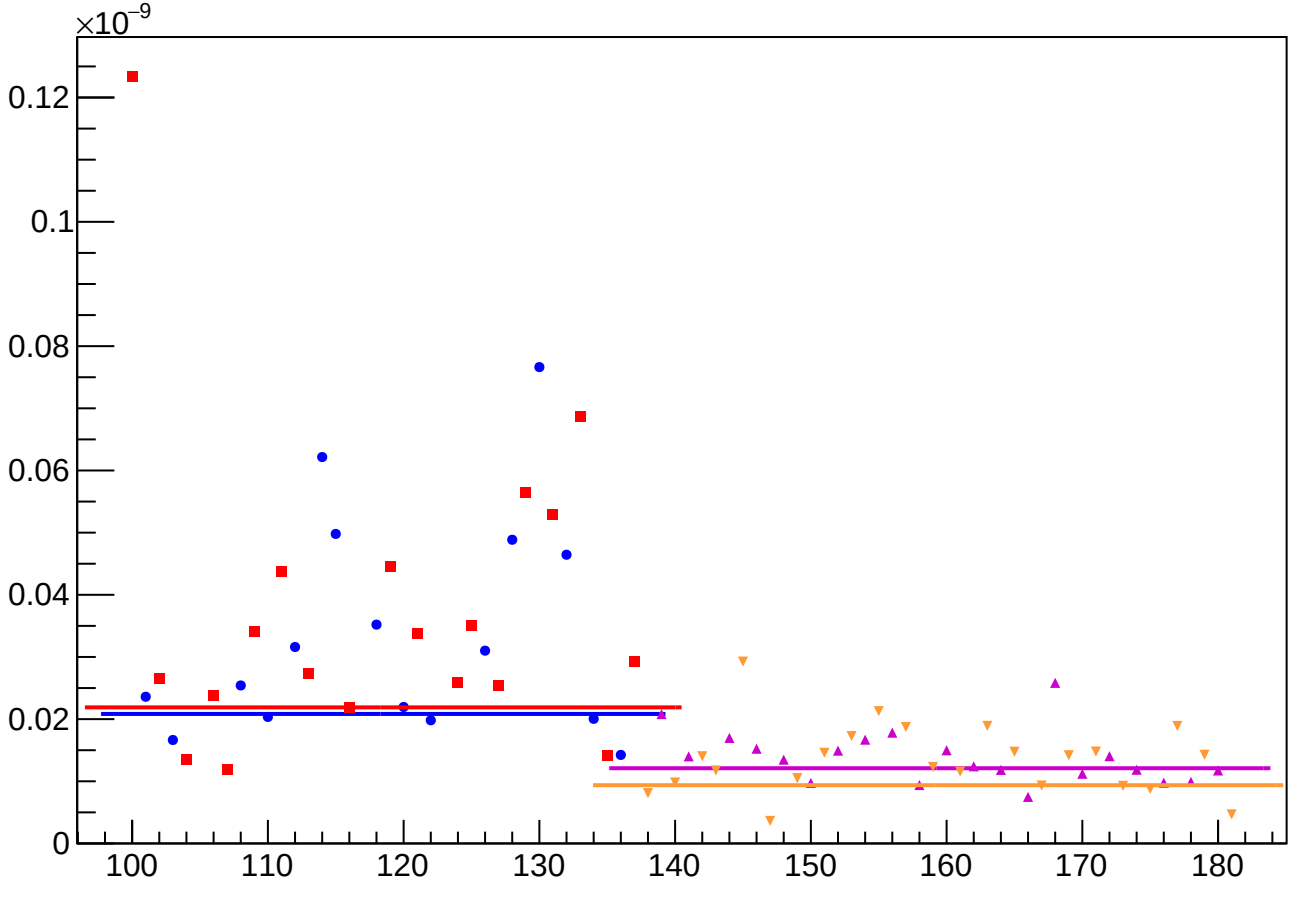
Left: -0.000+/-0.000 $\chi^2$/NDF: 52.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:46.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:38.4/41

All: -0.000+/-0.000 $\chi^2$/NDF: 85.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1384606.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4718718.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1906656.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1542231.5/20

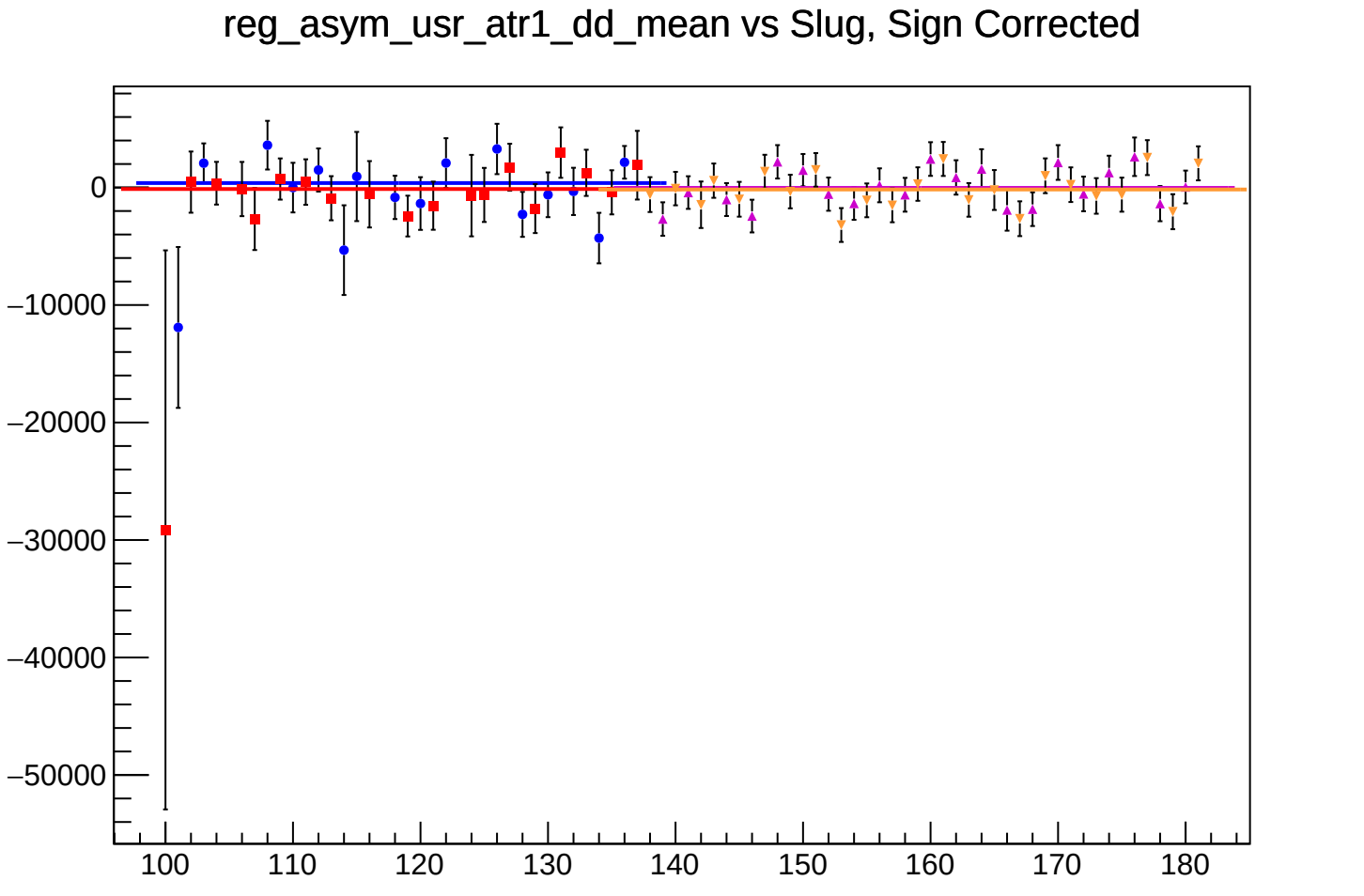
Left: 0.000+/-0.000 $\chi^2$/NDF: 6886244.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3299556.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4006440.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8693669.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 13400367.6/78




Right In: 381.403+/-517.789 $\chi^2$/NDF: 21.5/15

Left Out: -168.781+/-308.389 $\chi^2$/NDF:24.1/22

Right Out: -127.929+/-500.988 $\chi^2$/NDF: 10.0/18

Left In: -31.330+/-318.095 $\chi^2$/NDF:25.3/20

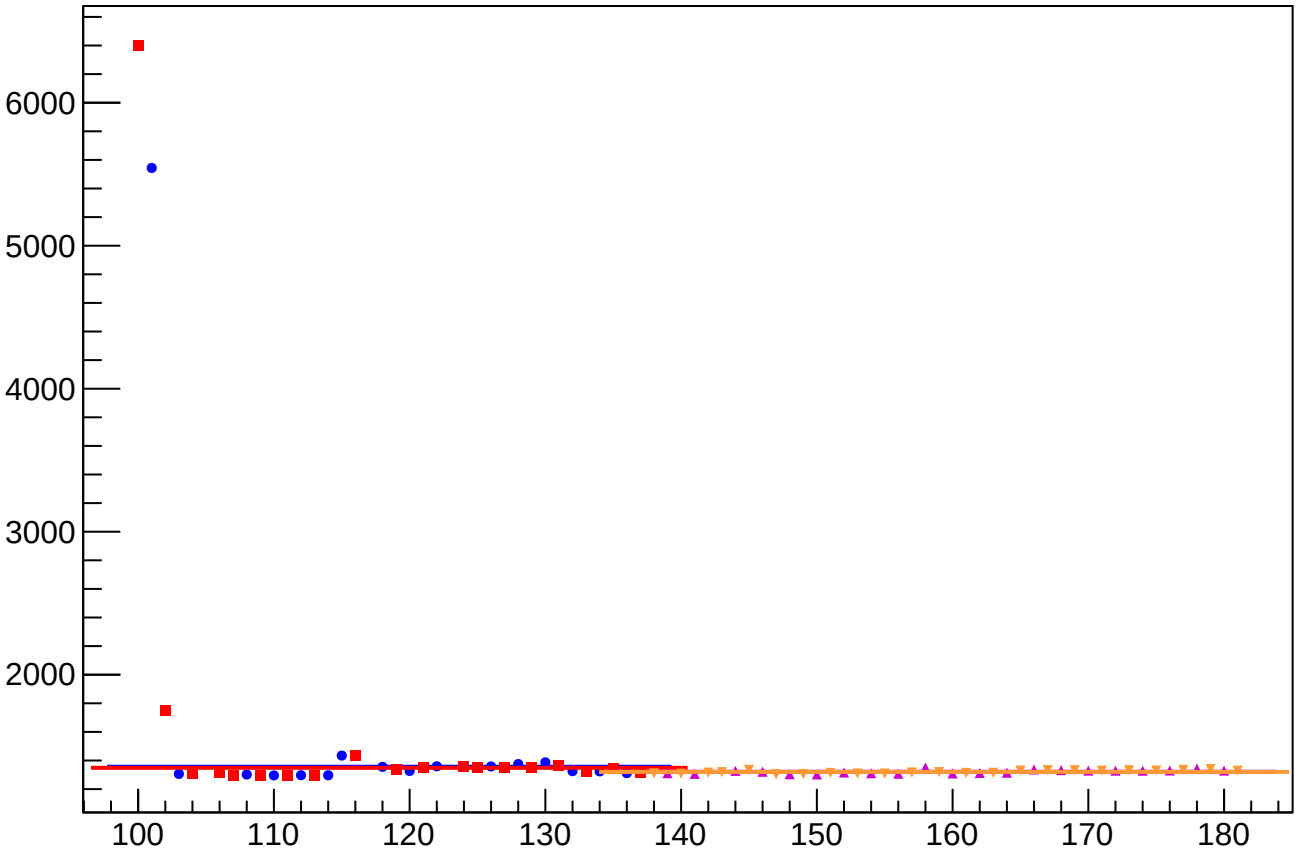
Left: -102.185+/-221.416 $\chi^2$/NDF: 49.5/43

Right: 118.340+/-360.045 $\chi^2$/NDF: 32.0/34

In: 81.758+/-271.035 $\chi^2$/NDF:47.3/36

Out: -157.555+/-262.621 $\chi^2$/NDF:34.0/41

All: -41.671+/-188.606 $\chi^2$/NDF: 81.7/78




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760266.3/15

Left Out: 1320.397+/-0.218 $\chi^2$/NDF:2548.6/22

Right Out: 1348.975+/-0.354 $\chi^2$/NDF: 147265.6/18

Left In: 1321.300+/-0.225 $\chi^2$/NDF:3474.9/20

Left: 1320.834+/-0.157 $\chi^2$/NDF: 6031.8/43

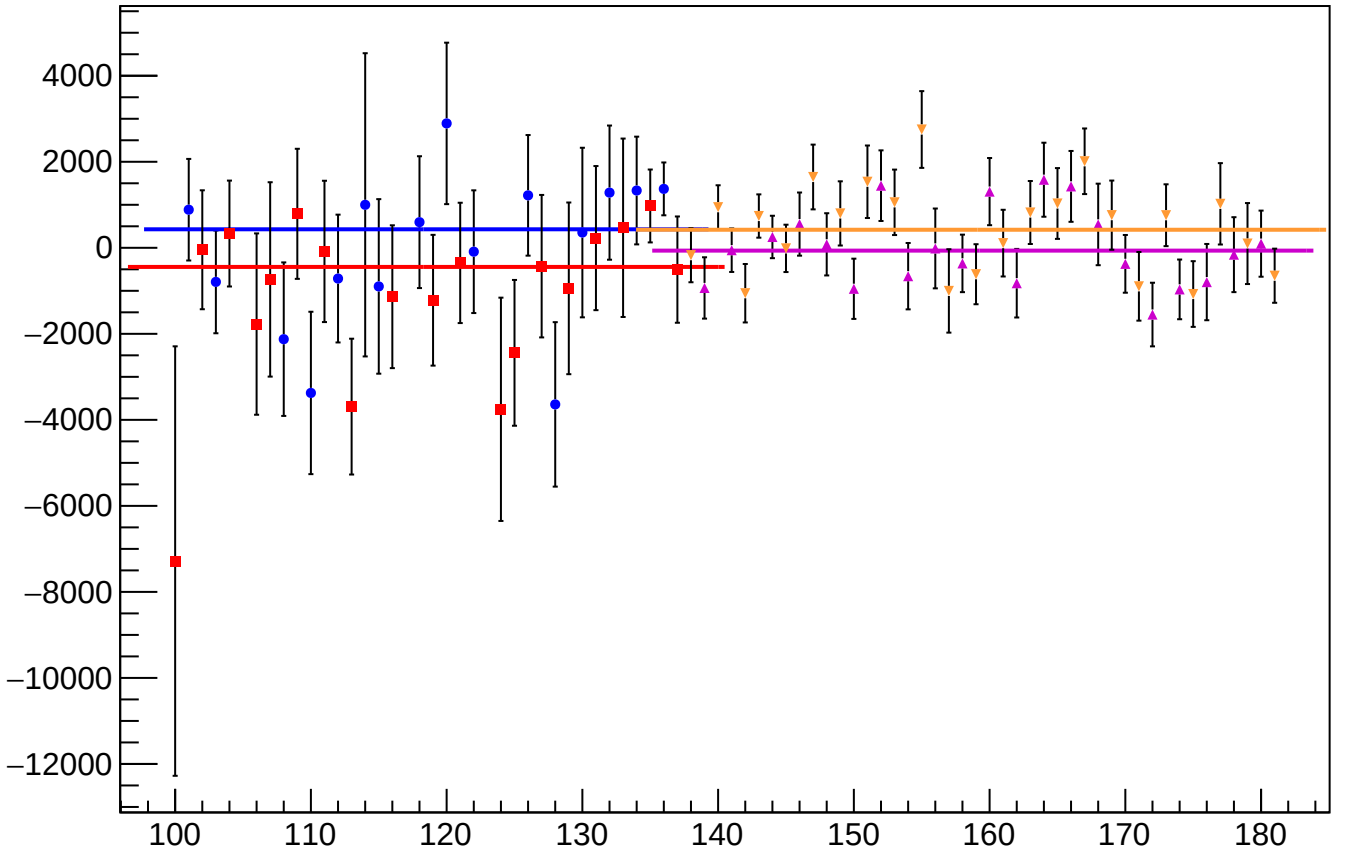
Right: 1352.564+/-0.255 $\chi^2$/NDF: 907744.1/34

In: 1330.917+/-0.192 $\chi^2$/NDF:770412.3/36

Out: 1328.250+/-0.186 $\chi^2$/NDF:154533.8/41

All: 1329.541+/-0.133 $\chi^2$/NDF: 925046.0/78

asym_usr_atr1_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 430.363+/-338.459 $\chi^2$/NDF: 18.2/15

Left Out: 419.631+/-148.889 $\chi^2$/NDF:39.9/22

Right Out: -444.555+/-355.594 $\chi^2$/NDF: 14.4/18

Left In: -65.448+/-158.291 $\chi^2$/NDF:26.5/20

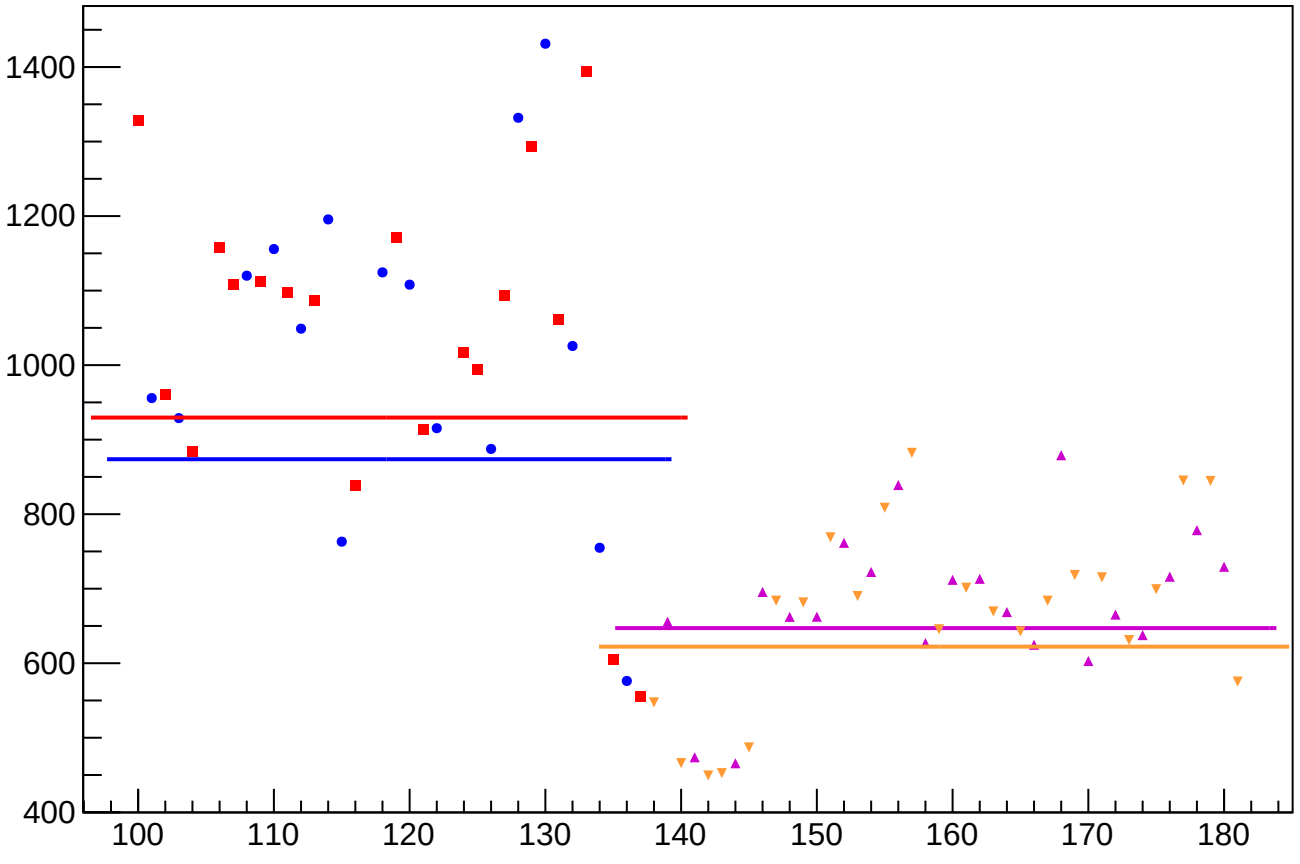
Left: 191.924+/-108.452 $\chi^2$/NDF: 71.4/43

Right: 14.491+/-245.161 $\chi^2$/NDF: 35.8/34

In: 23.535+/-143.385 $\chi^2$/NDF:46.5/36

Out: 290.726+/-137.336 $\chi^2$/NDF:59.3/41

All: 162.885+/-99.181 $\chi^2$/NDF: 107.6/78




Right In: 873.733+/-0.239 $\chi^2$/NDF: 1014860.8/15

Left Out: 622.220+/-0.105 $\chi^2$/NDF:1383275.9/22

Right Out: 929.637+/-0.251 $\chi^2$/NDF: 859936.0/18

Left In: 647.124+/-0.112 $\chi^2$/NDF:902277.4/20

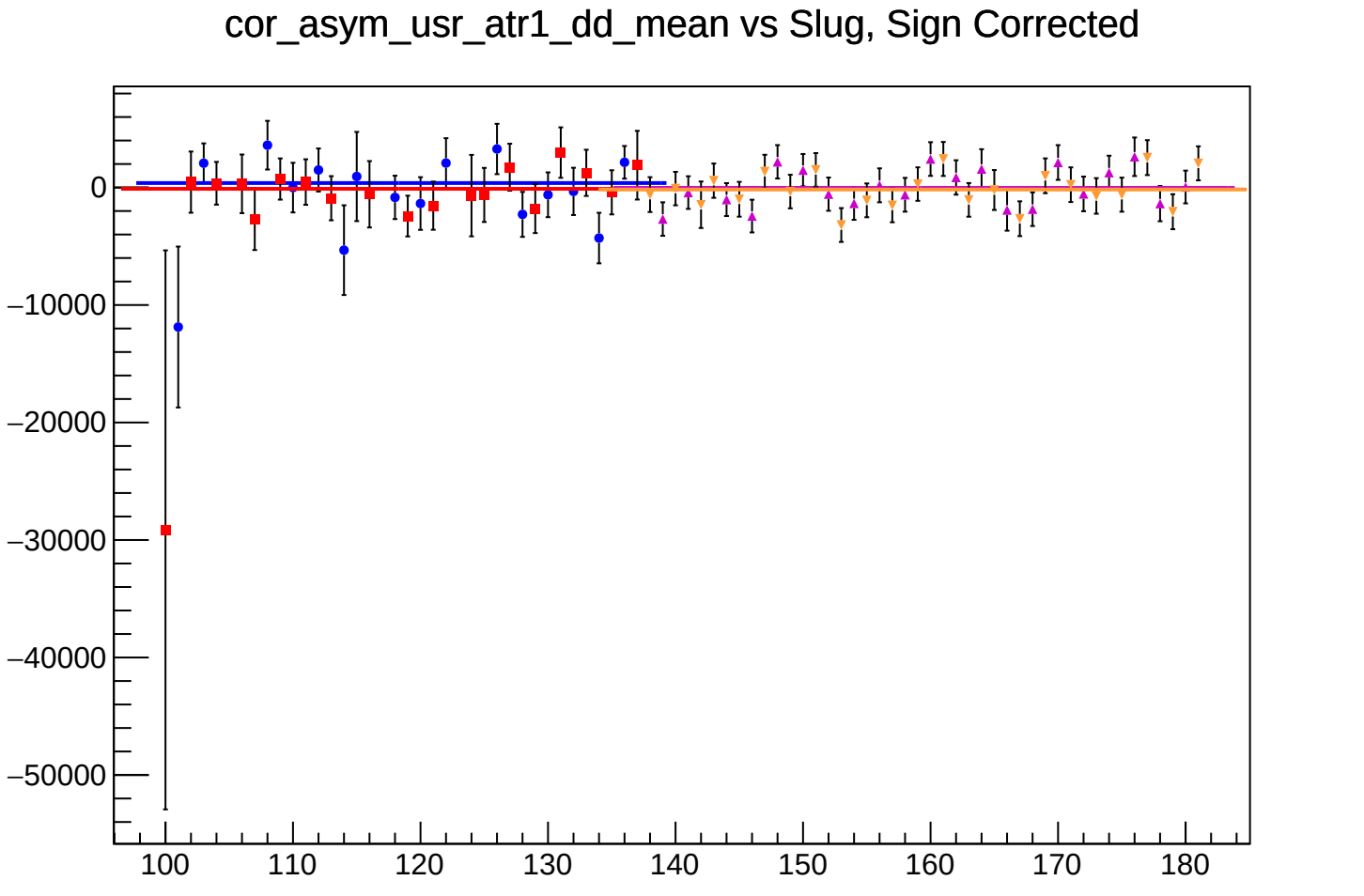
Left: 633.911+/-0.077 $\chi^2$/NDF: 2311818.1/43

Right: 900.305+/-0.173 $\chi^2$/NDF: 1900732.3/34

In: 687.793+/-0.101 $\chi^2$/NDF:2652779.5/36

Out: 668.076+/-0.097 $\chi^2$/NDF:3515015.3/41

All: 677.510+/-0.070 $\chi^2$/NDF: 6187519.4/78




Right In: 381.712+/-517.789 $\chi^2$/NDF: 21.5/15

Left Out: -168.792+/-308.389 $\chi^2$/NDF:24.1/22

Right Out: -110.280+/-502.698 $\chi^2$/NDF: 10.0/18

Left In: -31.378+/-318.095 $\chi^2$/NDF:25.3/20

Left: -102.214+/-221.416 $\chi^2$/NDF: 49.5/43

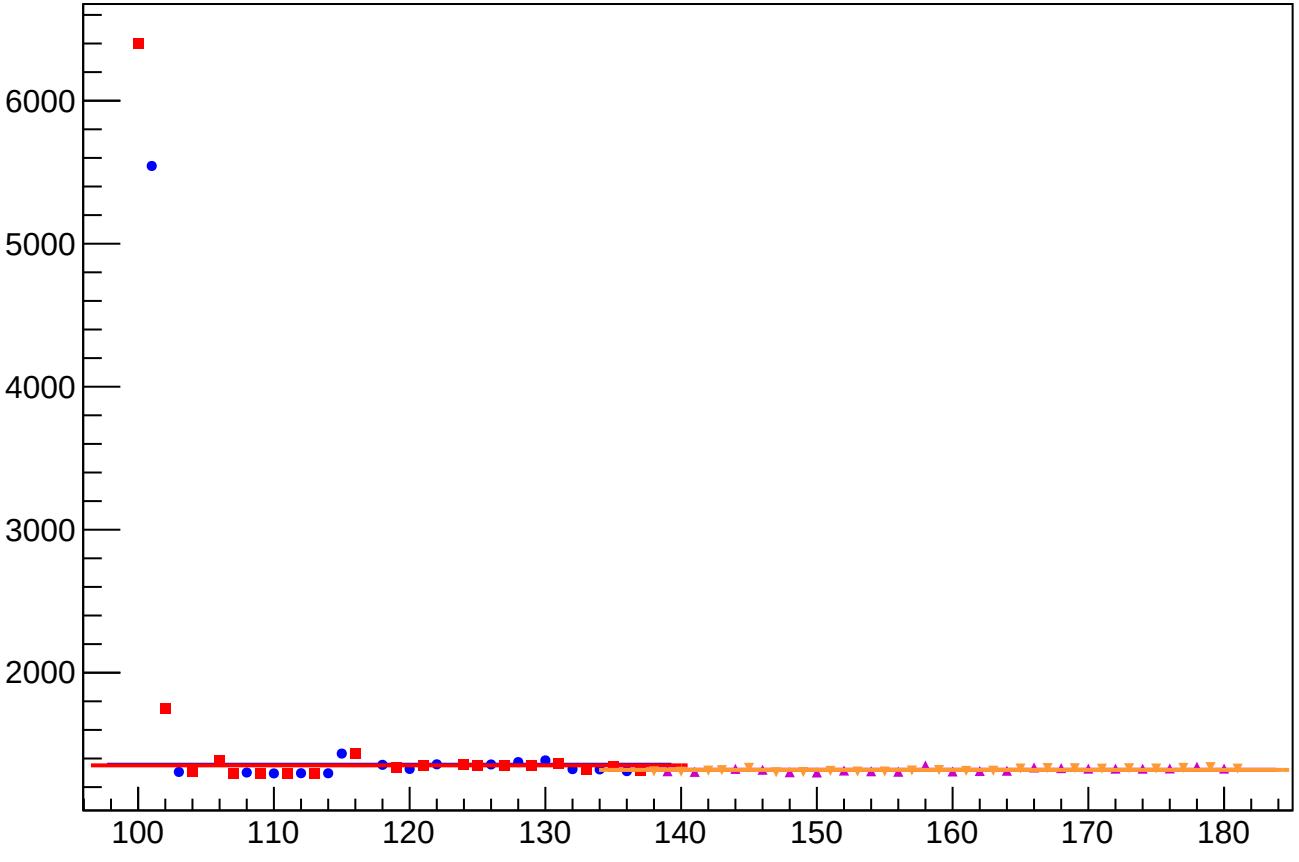
Right: 128.442+/-360.678 $\chi^2$/NDF: 32.0/34

In: 81.807+/-271.035 $\chi^2$/NDF:47.3/36

Out: -152.793+/-262.867 $\chi^2$/NDF:34.1/41

All: -39.081+/-188.697 $\chi^2$/NDF: 81.7/78

# cor_asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760265.4/15

Left Out: 1320.397+/-0.218 $\chi^2$/NDF:2548.6/22

Right Out: 1352.083+/-0.355 $\chi^2$/NDF: 147326.5/18

Left In: 1321.300+/-0.225 $\chi^2$/NDF:3474.9/20

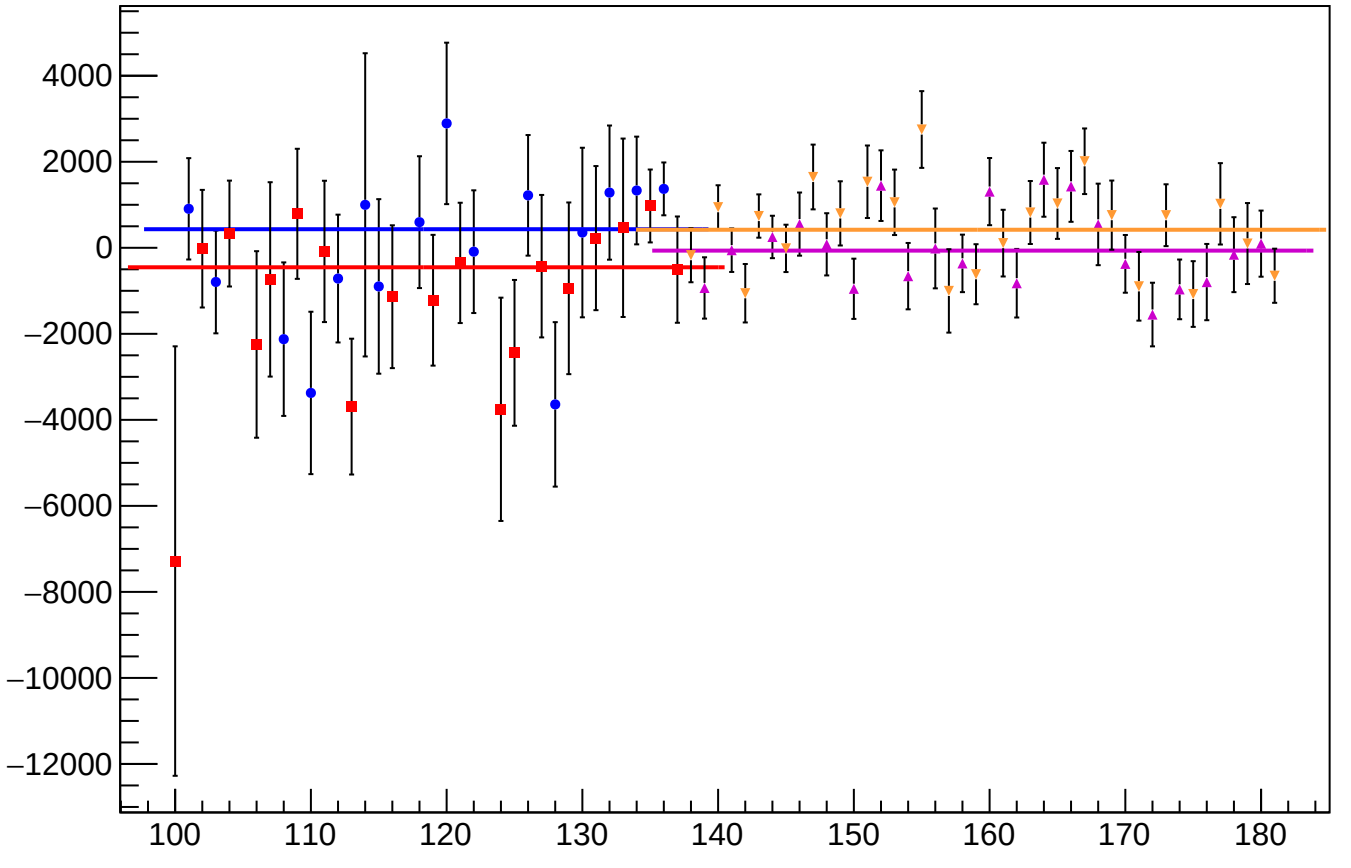
Left: 1320.834+/-0.157 $\chi^2$/NDF: 6031.8/43

Right: 1354.176+/-0.255 $\chi^2$/NDF: 907663.3/34

In: 1330.917+/-0.192 $\chi^2$/NDF:770411.4/36

Out: 1329.061+/-0.186 $\chi^2$/NDF:155648.7/41

All: 1329.960+/-0.133 $\chi^2$/NDF: 926108.4/78




Right In: 432.135+/-338.403 $\chi^2$/NDF: 18.2/15

Left Out: 419.579+/-148.889 $\chi^2$/NDF:39.9/22

Right Out: -453.039+/-355.599 $\chi^2$/NDF: 14.7/18

Left In: -65.435+/-158.289 $\chi^2$/NDF:26.5/20

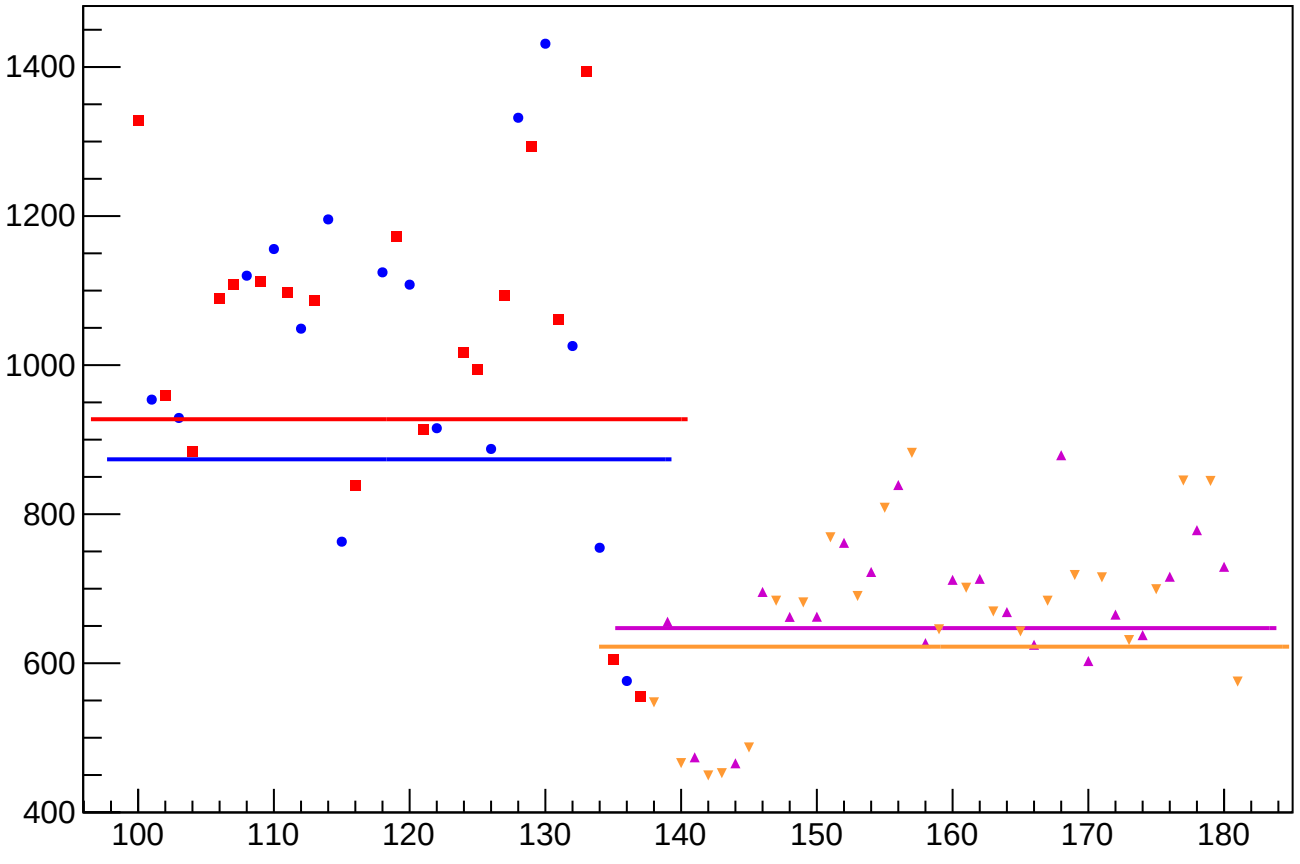
Left: 191.901+/-108.451 $\chi^2$/NDF: 71.4/43

Right: 11.468+/-245.141 $\chi^2$/NDF: 36.2/34

In: 23.887+/-143.379 $\chi^2$/NDF:46.5/36

Out: 289.420+/-137.337 $\chi^2$/NDF:59.8/41

All: 162.367+/-99.179 $\chi^2$/NDF: 108.0/78




Right In: 873.606+/-0.239 $\chi^2$/NDF: 1014405.7/15

Left Out: 622.221+/-0.105 $\chi^2$/NDF:1383176.4/22

Right Out: 927.407+/-0.251 $\chi^2$/NDF: 847382.0/18

Left In: 647.117+/-0.112 $\chi^2$/NDF:902333.1/20

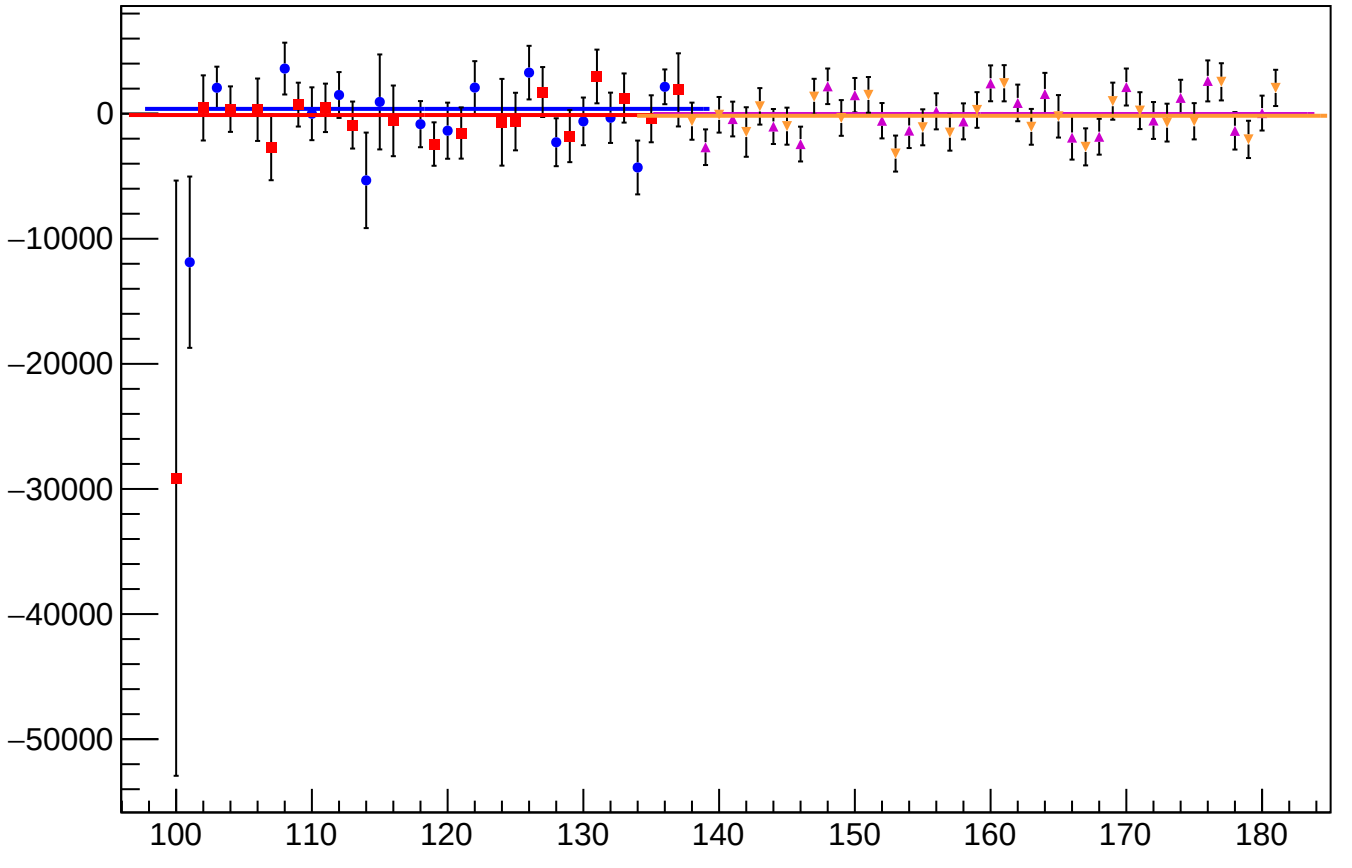
Left: 633.908+/-0.077 $\chi^2$/NDF: 2311760.7/43

Right: 899.174+/-0.173 $\chi^2$/NDF: 1885812.2/34

In: 687.776+/-0.101 $\chi^2$/NDF:2651803.6/36

Out: 667.742+/-0.097 $\chi^2$/NDF:3483949.1/41

All: 677.328+/-0.070 $\chi^2$/NDF: 6156115.7/78




Right In: 381.712+/-517.789 $\chi^2$/NDF: 21.5/15

Left Out: -168.792+/-308.389 $\chi^2$/NDF:24.1/22

Right Out: -110.280+/-502.698 $\chi^2$/NDF: 10.0/18

Left In: -31.378+/-318.095 $\chi^2$/NDF:25.3/20

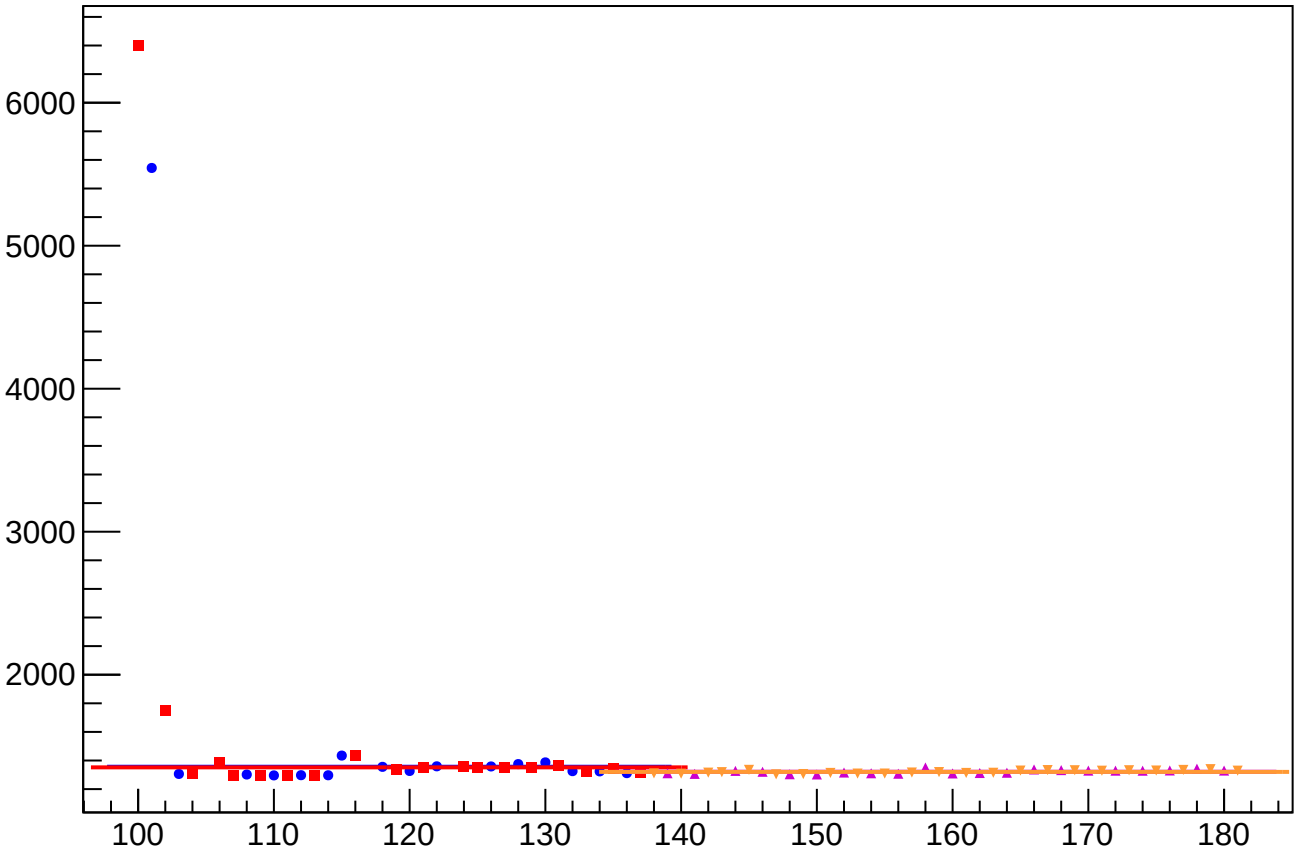
Left: -102.214+/-221.416 $\chi^2$/NDF: 49.5/43

Right: 128.442+/-360.678 $\chi^2$/NDF: 32.0/34

In: 81.807+/-271.035 $\chi^2$/NDF:47.3/36

Out: -152.793+/-262.867 $\chi^2$/NDF:34.1/41

All: -39.081+/-188.697 $\chi^2$/NDF: 81.7/78




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760265.4/15

Left Out: 1320.397+/-0.218 $\chi^2$/NDF:2548.6/22

Right Out: 1352.083+/-0.355 $\chi^2$/NDF: 147326.5/18

Left In: 1321.300+/-0.225 $\chi^2$/NDF:3474.9/20

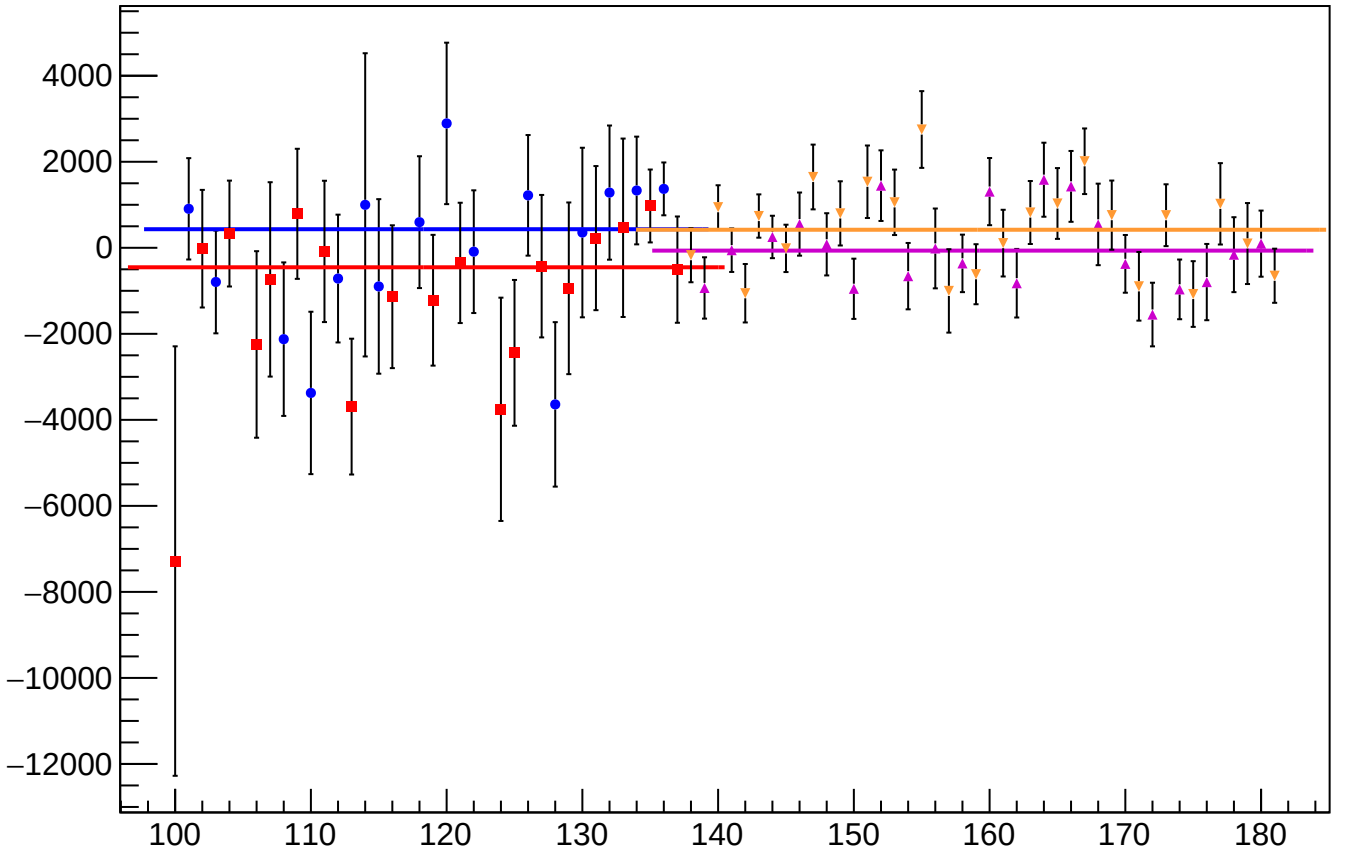
Left: 1320.834+/-0.157 $\chi^2$/NDF: 6031.8/43

Right: 1354.176+/-0.255 $\chi^2$/NDF: 907663.3/34

In: 1330.917+/-0.192 $\chi^2$/NDF:770411.4/36

Out: 1329.061+/-0.186 $\chi^2$/NDF:155648.7/41

All: 1329.960+/-0.133 $\chi^2$/NDF: 926108.4/78




Right In: 432.135+/-338.403 $\chi^2$/NDF: 18.2/15

Left Out: 419.579+/-148.889 $\chi^2$/NDF:39.9/22

Right Out: -453.039+/-355.599 $\chi^2$/NDF: 14.7/18

Left In: -65.435+/-158.289 $\chi^2$/NDF:26.5/20

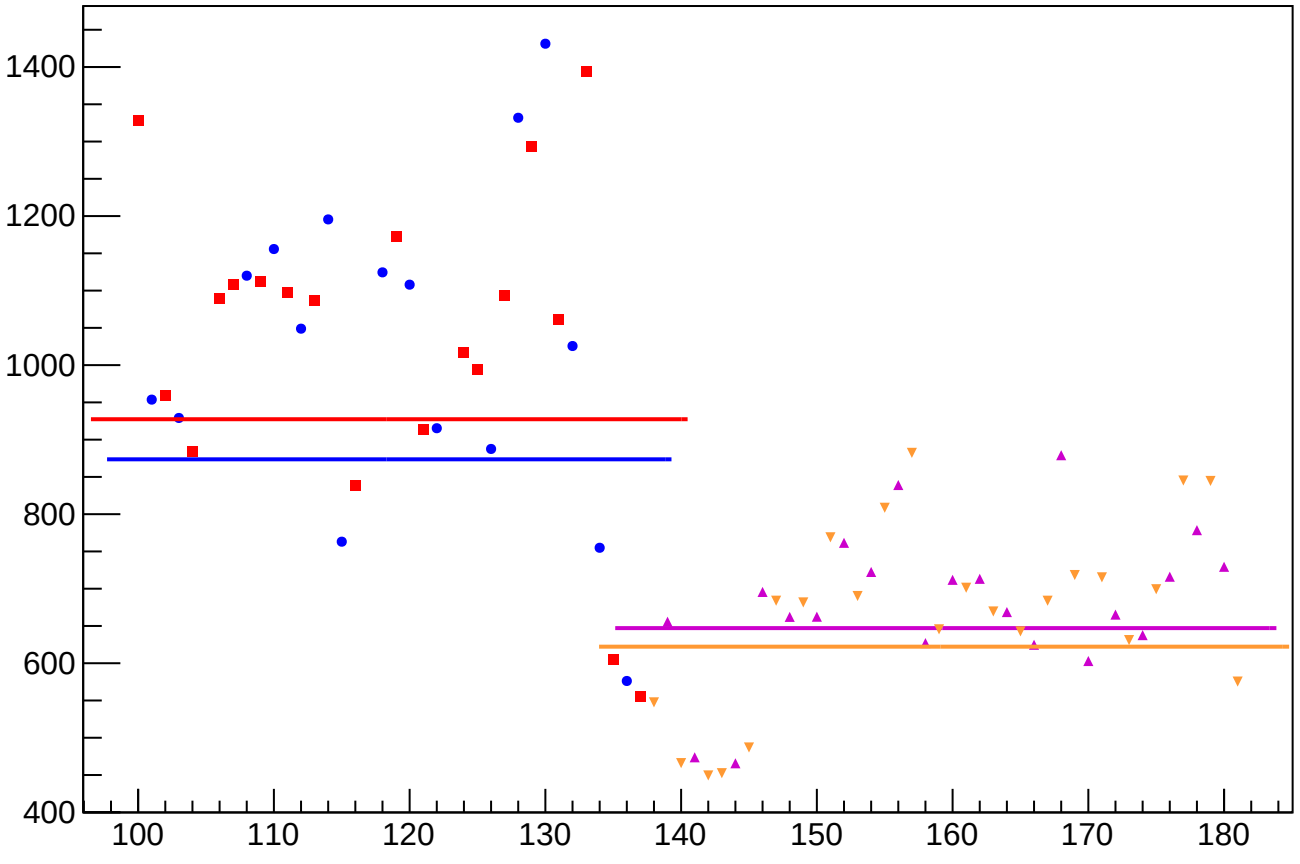
Left: 191.901+/-108.451 $\chi^2$/NDF: 71.4/43

Right: 11.468+/-245.141 $\chi^2$/NDF: 36.2/34

In: 23.887+/-143.379 $\chi^2$/NDF:46.5/36

Out: 289.420+/-137.337 $\chi^2$/NDF:59.8/41

All: 162.367+/-99.179 $\chi^2$/NDF: 108.0/78




Right In: 873.606+/-0.239 $\chi^2$/NDF: 1014405.7/15

Left Out: 622.221+/-0.105 $\chi^2$/NDF:1383176.4/22

Right Out: 927.407+/-0.251 $\chi^2$/NDF: 847382.0/18

Left In: 647.117+/-0.112 $\chi^2$/NDF:902333.1/20

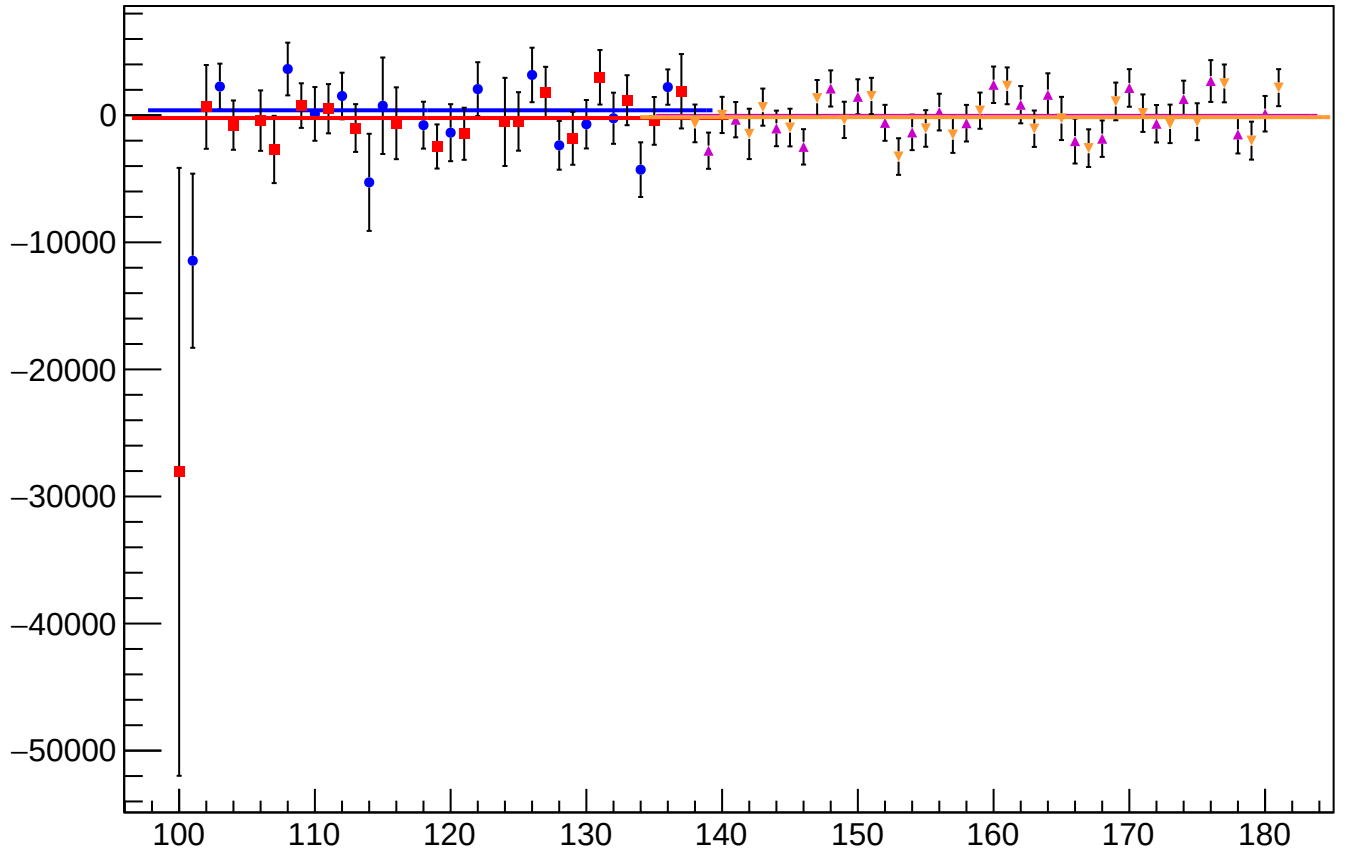
Left: 633.908+/-0.077 $\chi^2$/NDF: 2311760.7/43

Right: 899.174+/-0.173 $\chi^2$/NDF: 1885812.2/34

In: 687.776+/-0.101 $\chi^2$/NDF:2651803.6/36

Out: 667.742+/-0.097 $\chi^2$/NDF:3483949.1/41

All: 677.328+/-0.070 $\chi^2$/NDF: 6156115.7/78




Right In: 389.949+/-521.159 $\chi^2$/NDF: 21.4/15

Left Out: -150.750+/-308.754 $\chi^2$/NDF:23.9/22

Right Out: -218.184+/-507.927 $\chi^2$/NDF: 10.0/18

Left In: -48.452+/-318.435 $\chi^2$/NDF:26.1/20

Left: -101.180+/-221.666 $\chi^2$/NDF: 50.0/43

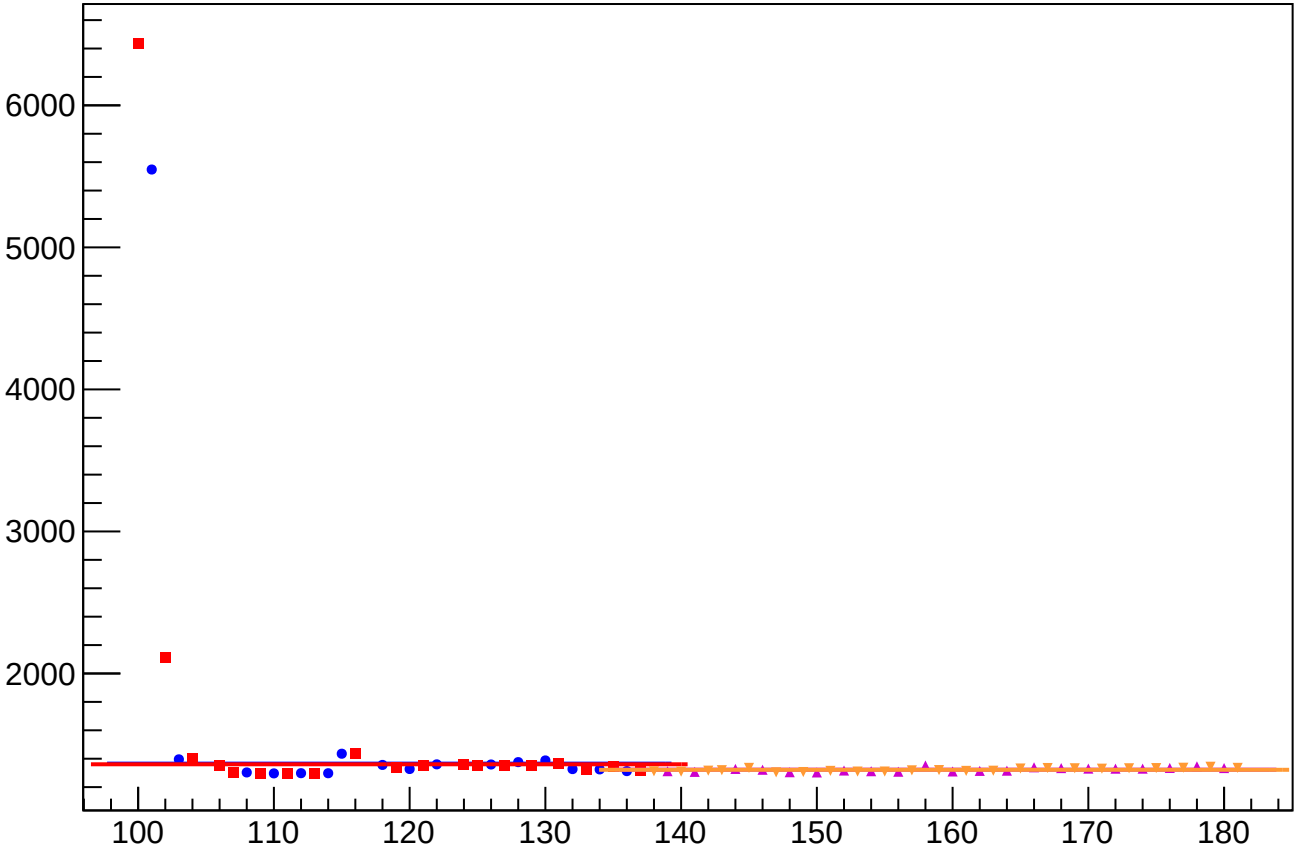
Right: 78.065+/-363.747 $\chi^2$/NDF: 32.1/34

In: 70.726+/-271.727 $\chi^2$/NDF:48.0/36

Out: -168.944+/-263.834 $\chi^2$/NDF:33.9/41

All: -52.640+/-189.288 $\chi^2$/NDF: 82.2/78

# dit_asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1365.302+/-0.369 $\chi^2$/NDF: 758944.7/15

Left Out: 1321.955+/-0.218 $\chi^2$/NDF:2849.7/22

Right Out: 1360.771+/-0.359 $\chi^2$/NDF: 205315.3/18

Left In: 1322.707+/-0.225 $\chi^2$/NDF:3721.1/20

Left: 1322.319+/-0.157 $\chi^2$/NDF: 6576.6/43

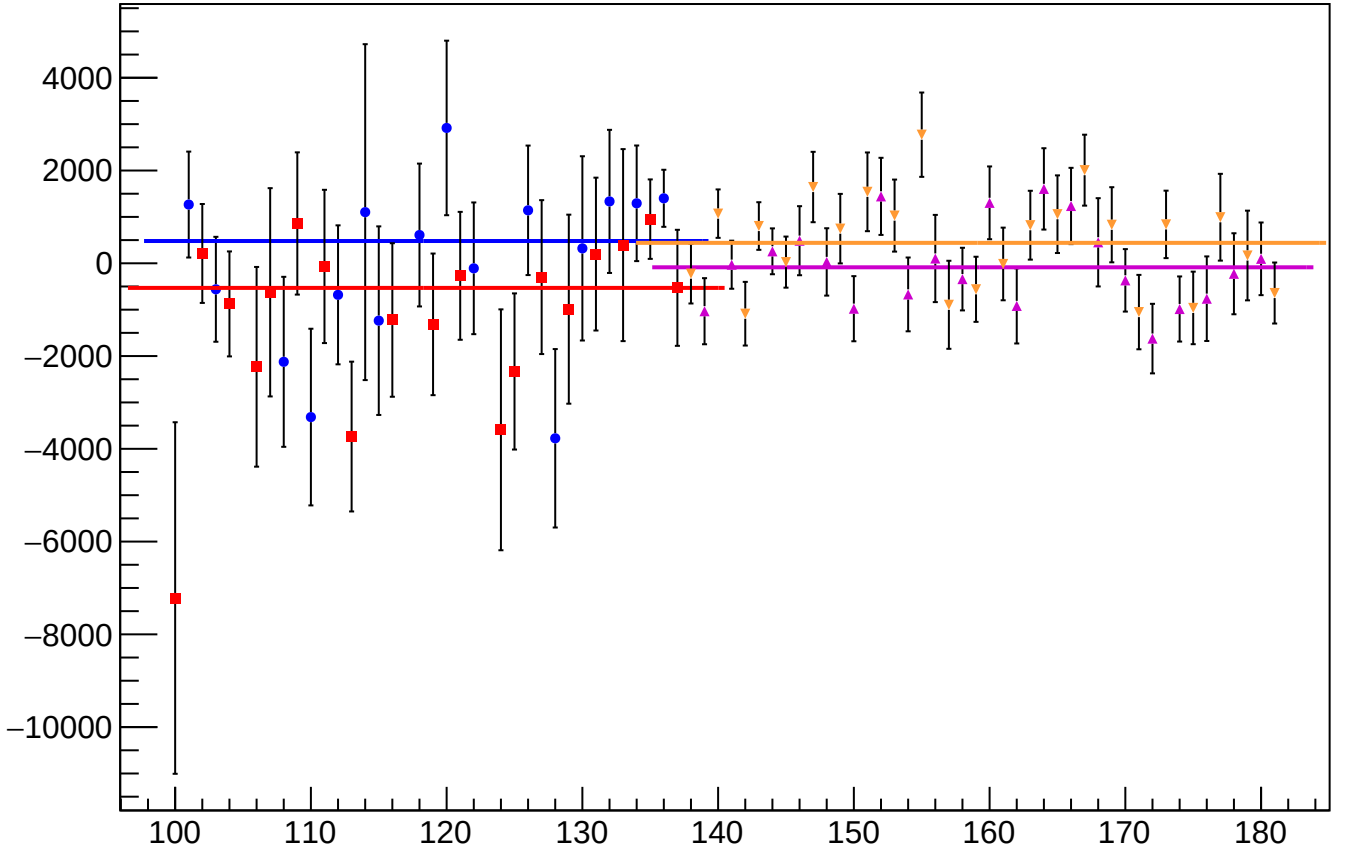
Right: 1362.978+/-0.257 $\chi^2$/NDF: 964337.6/34

In: 1334.286+/-0.192 $\chi^2$/NDF:772394.1/36

Out: 1332.428+/-0.187 $\chi^2$/NDF:216693.6/41

All: 1333.329+/-0.134 $\chi^2$/NDF: 989135.9/78

asym_usr_atr1_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 480.403+/-336.520 $\chi^2$/NDF: 18.6/15

Left Out: 440.687+/-150.873 $\chi^2$/NDF:39.8/22

Right Out: -530.532+/-346.105 $\chi^2$/NDF: 15.6/18

Left In: -86.360+/-160.021 $\chi^2$/NDF:26.1/20

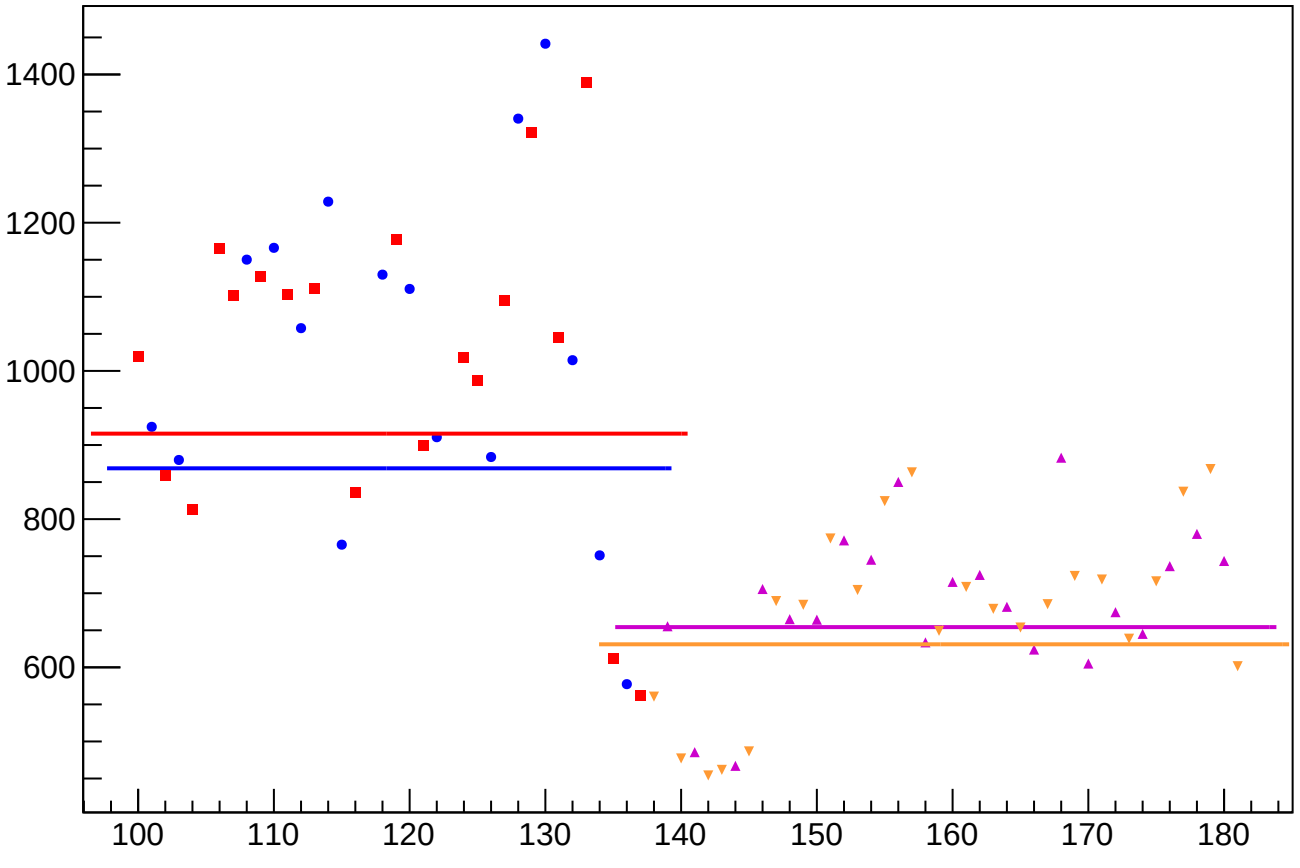
Left: 192.657+/-109.775 $\chi^2$/NDF: 71.6/43

Right: -10.874+/-241.273 $\chi^2$/NDF: 38.6/34

In: 18.160+/-144.514 $\chi^2$/NDF:47.0/36

Out: 285.602+/-138.304 $\chi^2$/NDF:62.0/41

All: 157.751+/-99.919 $\chi^2$/NDF: 110.8/78




Right In: 868.572+/-0.238 $\chi^2$/NDF: 1021338.5/15

Left Out: 631.111+/-0.107 $\chi^2$/NDF:1327671.3/22

Right Out: 915.360+/-0.245 $\chi^2$/NDF: 858906.6/18

Left In: 654.303+/-0.113 $\chi^2$/NDF:906952.6/20

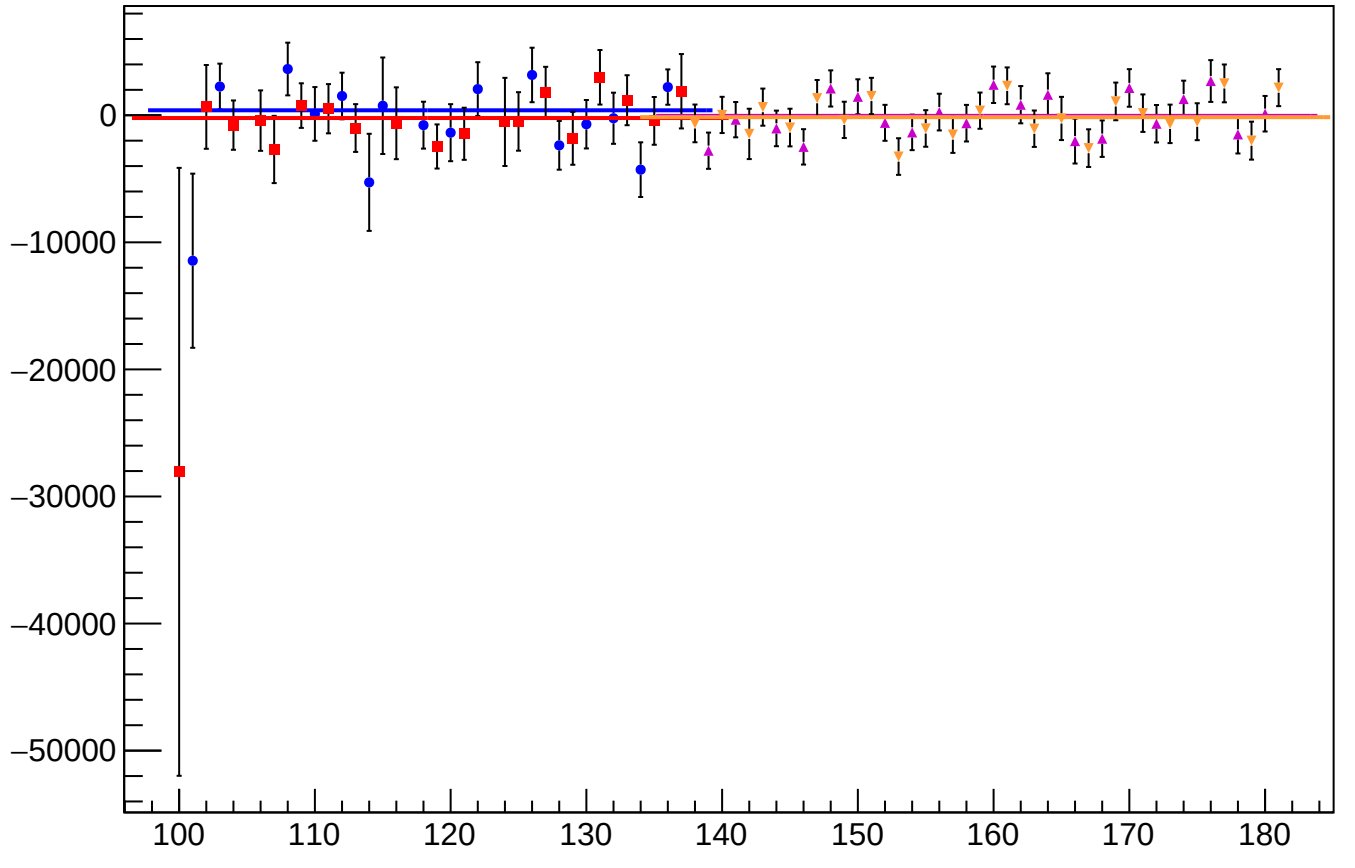
Left: 642.025+/-0.078 $\chi^2$/NDF: 2256863.9/43

Right: 891.309+/-0.171 $\chi^2$/NDF: 1899033.0/34

In: 693.817+/-0.102 $\chi^2$/NDF:2589587.5/36

Out: 676.500+/-0.098 $\chi^2$/NDF:3320173.0/41

All: 684.778+/-0.071 $\chi^2$/NDF: 5924750.5/78




Right In: 389.949+/-521.159 $\chi^2$/NDF: 21.4/15

Left Out: -150.751+/-308.754 $\chi^2$/NDF:23.9/22

Right Out: -218.182+/-507.927 $\chi^2$/NDF: 10.0/18

Left In: -48.452+/-318.435 $\chi^2$/NDF:26.1/20

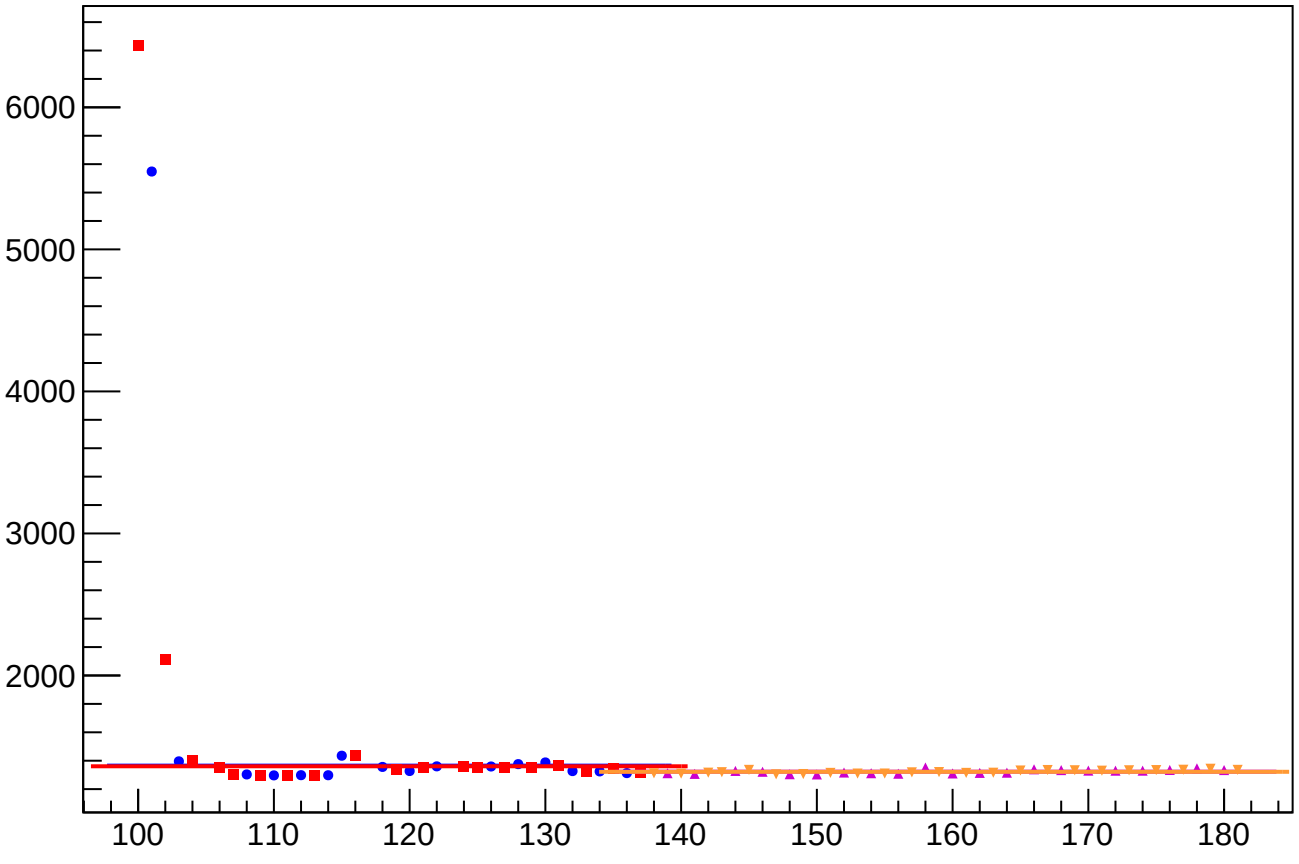
Left: -101.180+/-221.666 $\chi^2$/NDF: 50.0/43

Right: 78.066+/-363.747 $\chi^2$/NDF: 32.1/34

In: 70.726+/-271.727 $\chi^2$/NDF:48.0/36

Out: -168.945+/-263.834 $\chi^2$/NDF:33.9/41

All: -52.641+/-189.288 $\chi^2$/NDF: 82.2/78




Right In: 1365.302+/-0.369 $\chi^2$/NDF: 758944.7/15

Left Out: 1321.955+/-0.218 $\chi^2$/NDF:2849.7/22

Right Out: 1360.770+/-0.359 $\chi^2$/NDF: 205315.2/18

Left In: 1322.707+/-0.225 $\chi^2$/NDF:3721.1/20

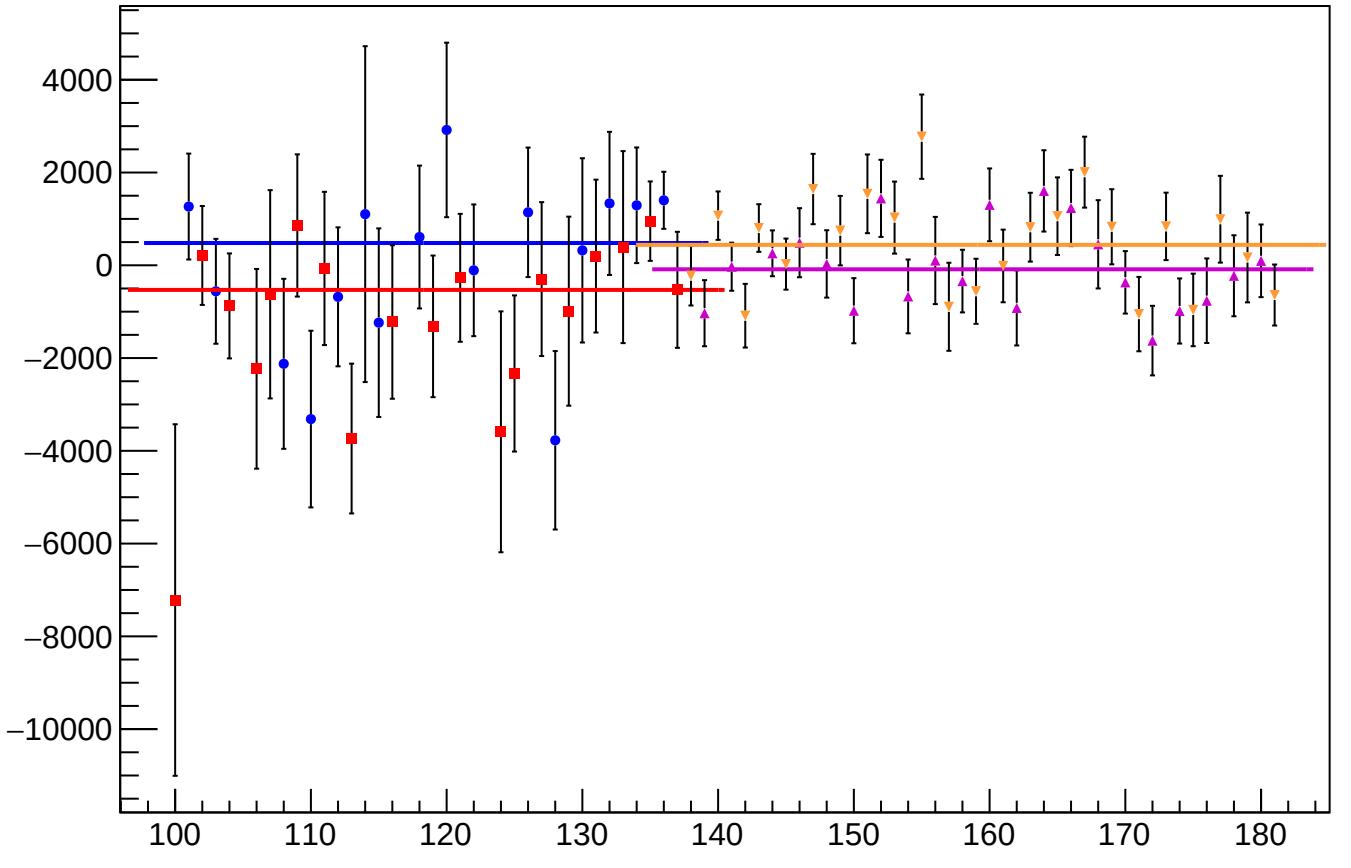
Left: 1322.319+/-0.157 $\chi^2$/NDF: 6576.6/43

Right: 1362.978+/-0.257 $\chi^2$/NDF: 964337.5/34

In: 1334.286+/-0.192 $\chi^2$/NDF:772394.1/36

Out: 1332.428+/-0.187 $\chi^2$/NDF:216693.5/41

All: 1333.329+/-0.134 $\chi^2$/NDF: 989135.8/78




Right In: 480.400+/-336.519 $\chi^2$/NDF: 18.6/15

Left Out: 440.687+/-150.873 $\chi^2$/NDF:39.8/22

Right Out: -530.531+/-346.104 $\chi^2$/NDF: 15.6/18

Left In: -86.360+/-160.021 $\chi^2$/NDF:26.1/20

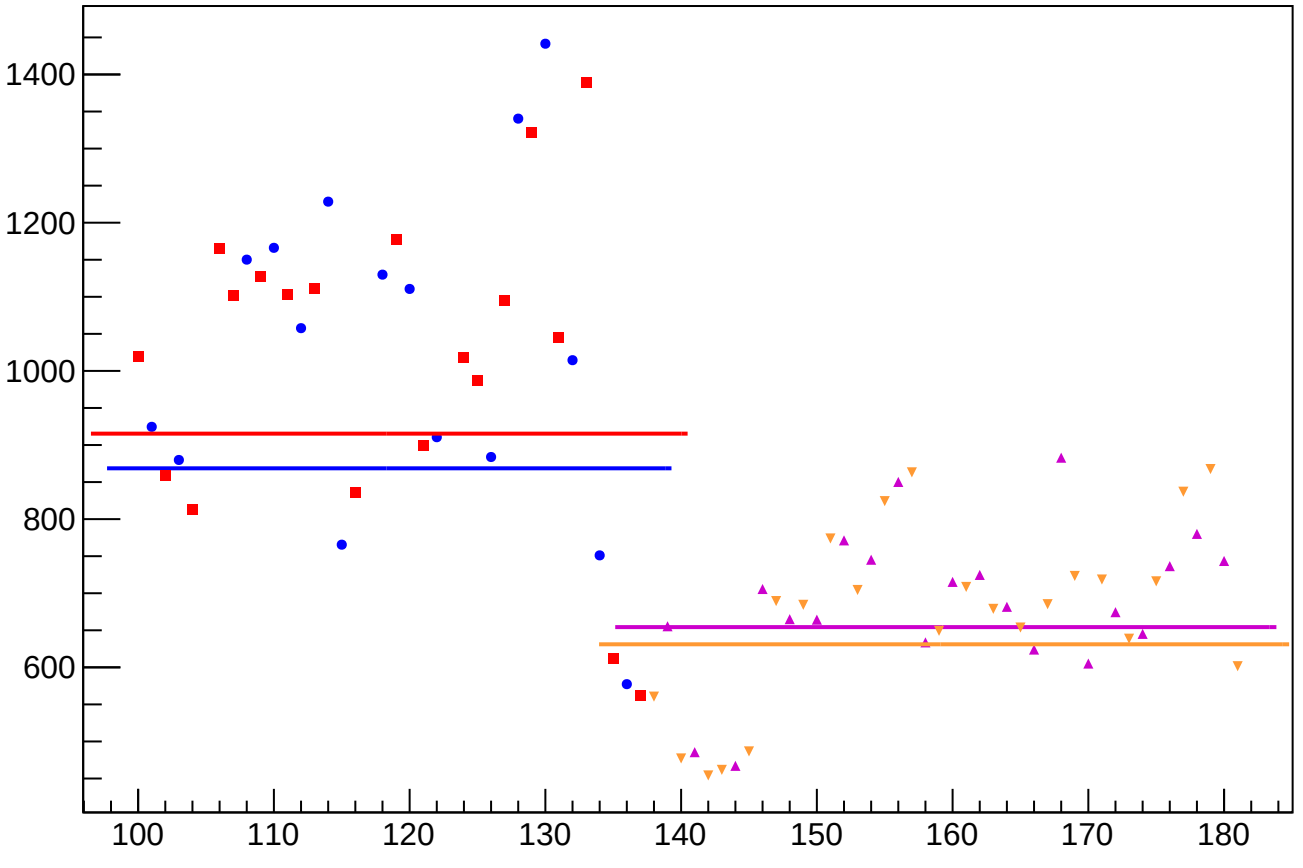
Left: 192.658+/-109.775 $\chi^2$/NDF: 71.6/43

Right: -10.874+/-241.273 $\chi^2$/NDF: 38.6/34

In: 18.161+/-144.514 $\chi^2$/NDF:47.0/36

Out: 285.601+/-138.304 $\chi^2$/NDF:62.0/41

All: 157.751+/-99.919 $\chi^2$/NDF: 110.8/78




Right In: 868.570+/-0.238 $\chi^2$/NDF: 1021337.1/15

Left Out: 631.111+/-0.107 $\chi^2$/NDF:1327690.9/22

Right Out: 915.358+/-0.245 $\chi^2$/NDF: 858906.3/18

Left In: 654.304+/-0.113 $\chi^2$/NDF:906961.2/20

Left: 642.026+/-0.078 $\chi^2$/NDF: 2256893.3/43

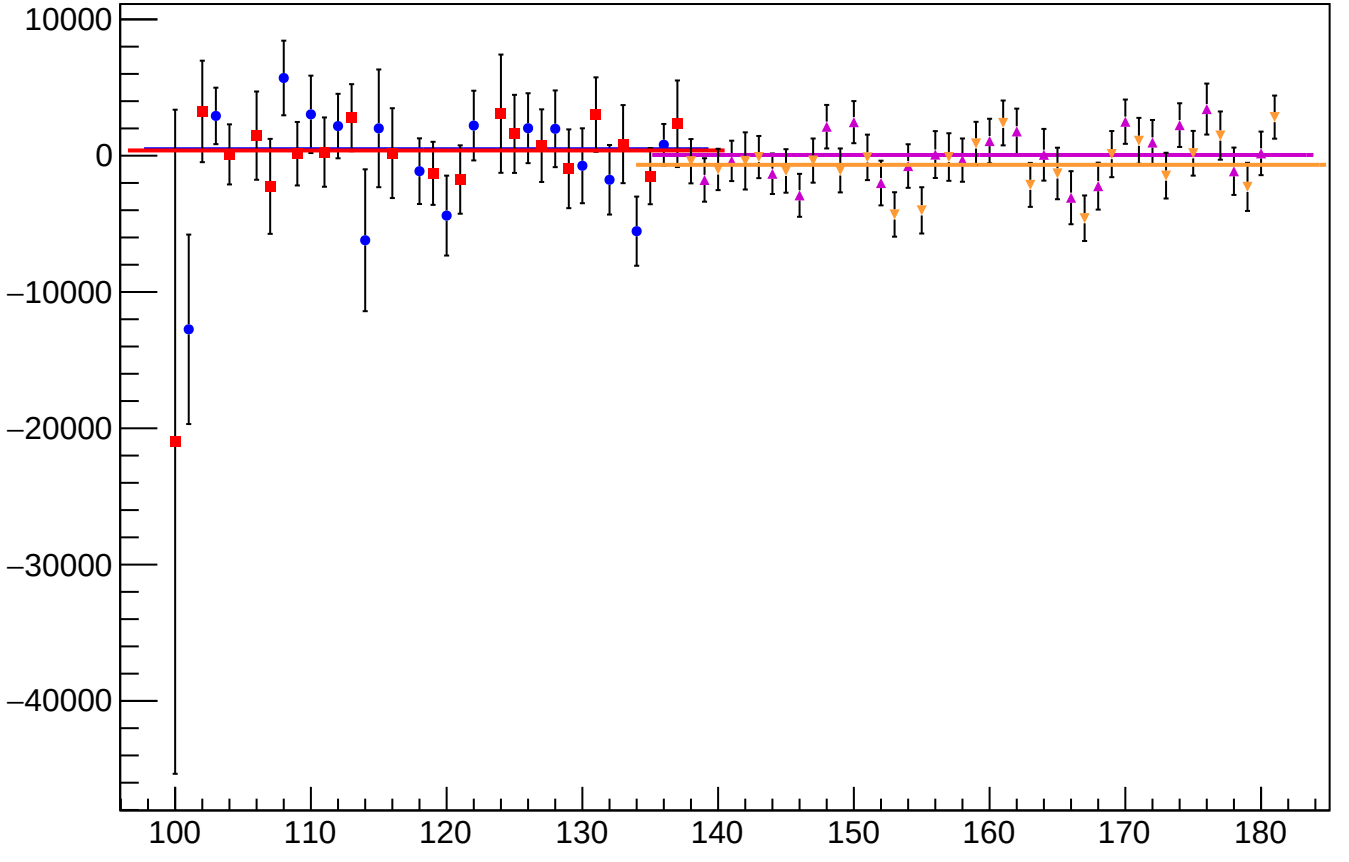
Right: 891.307+/-0.171 $\chi^2$/NDF: 1899032.0/34

In: 693.818+/-0.102 $\chi^2$/NDF:2589574.9/36

Out: 676.500+/-0.098 $\chi^2$/NDF:3320177.0/41

All: 684.779+/-0.071 $\chi^2$/NDF: 5924742.7/78

# asym_usr_atr1_dd_mean vs Slug, Sign Corrected




Right In: 473.494+/-649.243 $\chi^2$/NDF: 22.7/15

Left Out: -670.254+/-347.382 $\chi^2$/NDF:29.4/22

Right Out: 384.785+/-641.994 $\chi^2$/NDF: 7.3/18

Left In: 52.358+/-358.752 $\chi^2$/NDF:25.8/20

Left: -320.580+/-249.559 $\chi^2$/NDF: 57.3/43

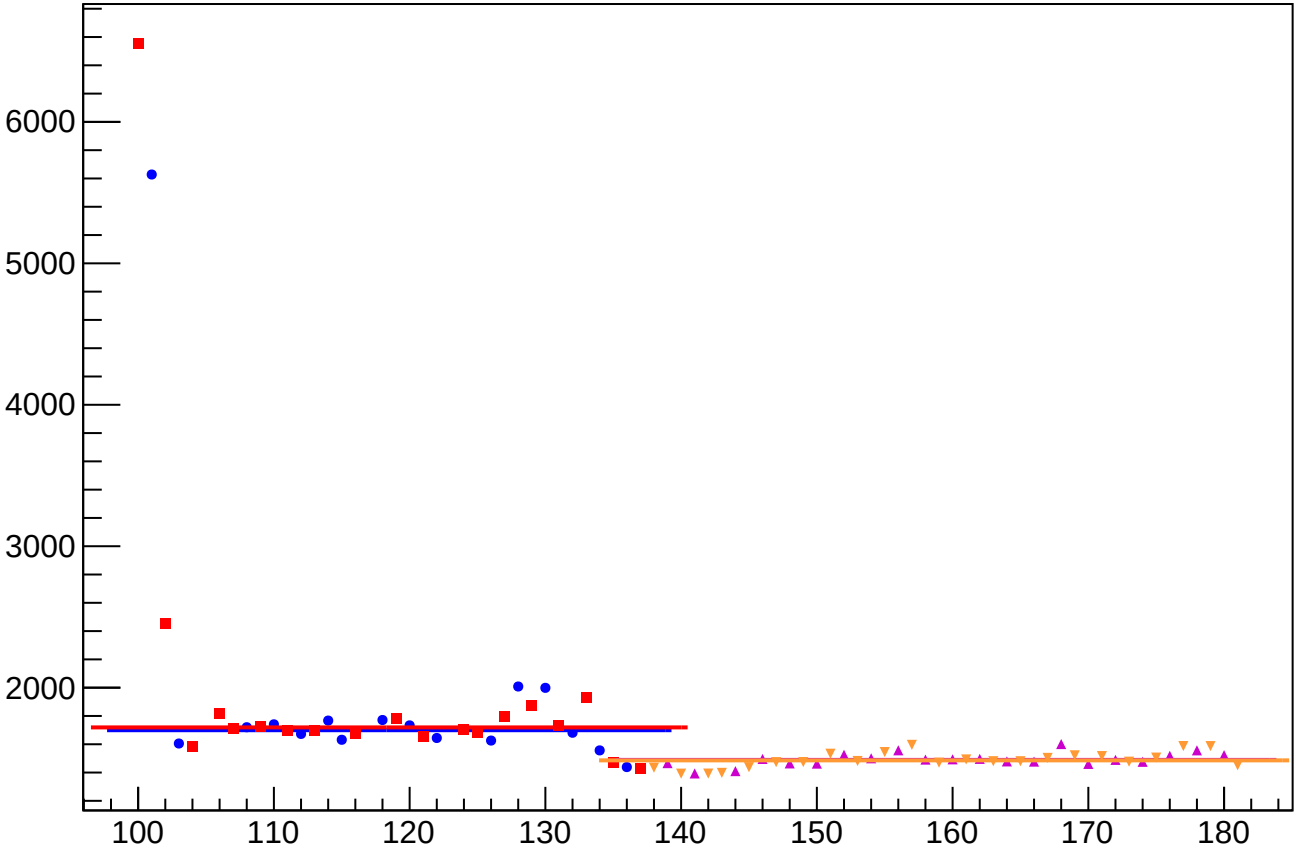
Right: 428.642+/-456.500 $\chi^2$/NDF: 30.0/34

In: 150.867+/-314.003 $\chi^2$/NDF:48.8/36

Out: -431.311+/-305.523 $\chi^2$/NDF:38.8/41

All: -148.189+/-218.974 $\chi^2$/NDF: 89.3/78

# asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1699.330+/-0.459 $\chi^2$/NDF: 762097.7/15

Left Out: 1486.116+/-0.246 $\chi^2$/NDF:50506.6/22

Right Out: 1719.103+/-0.454 $\chi^2$/NDF: 233751.6/18

Left In: 1489.339+/-0.254 $\chi^2$/NDF:33564.8/20

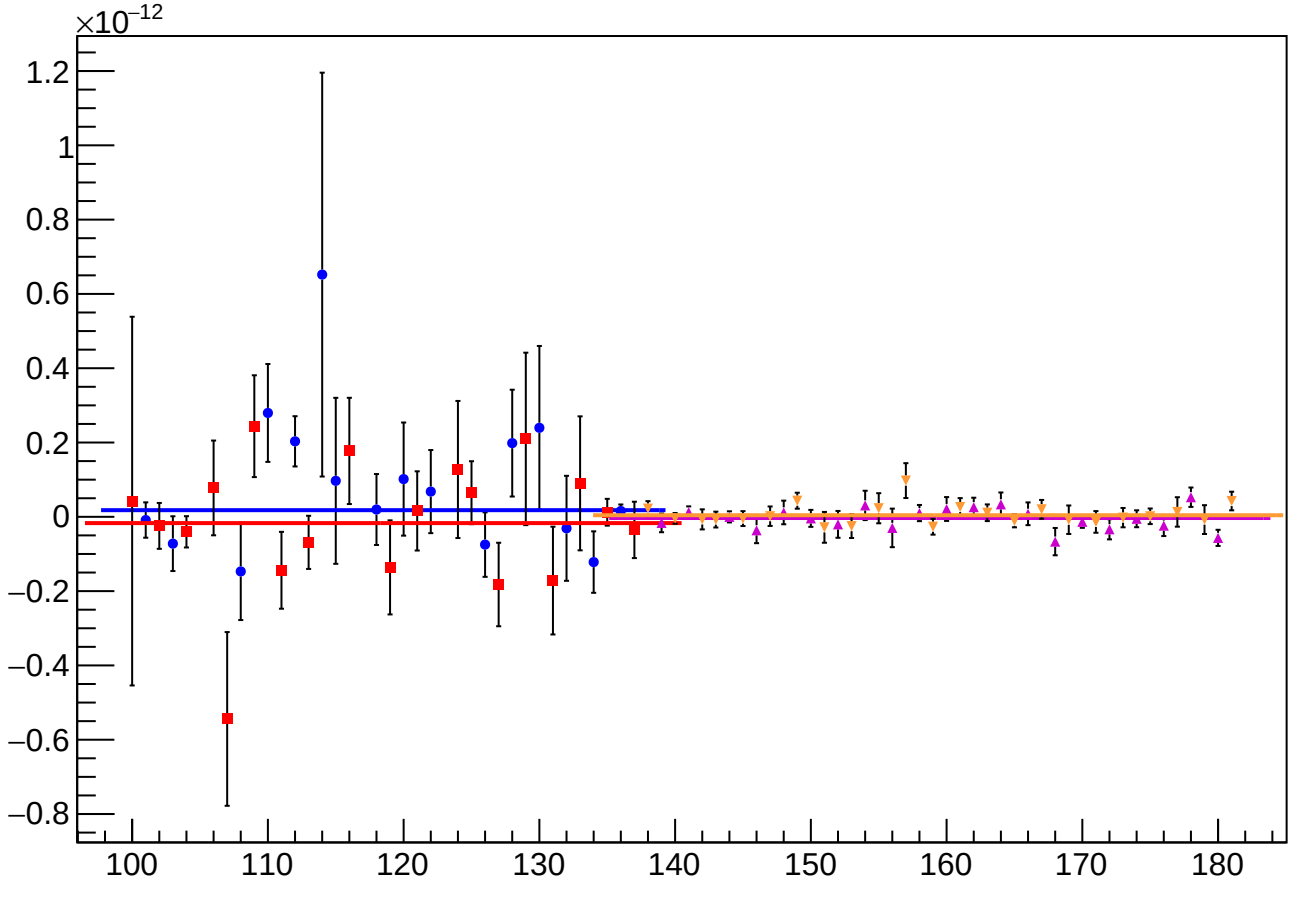
Left: 1487.676+/-0.176 $\chi^2$/NDF: 84154.7/43

Right: 1709.327+/-0.323 $\chi^2$/NDF: 996787.3/34

In: 1538.458+/-0.222 $\chi^2$/NDF:955947.7/36

Out: 1538.882+/-0.216 $\chi^2$/NDF:488011.4/41

All: 1538.676+/-0.155 $\chi^2$/NDF: 1443961.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:23.3/20

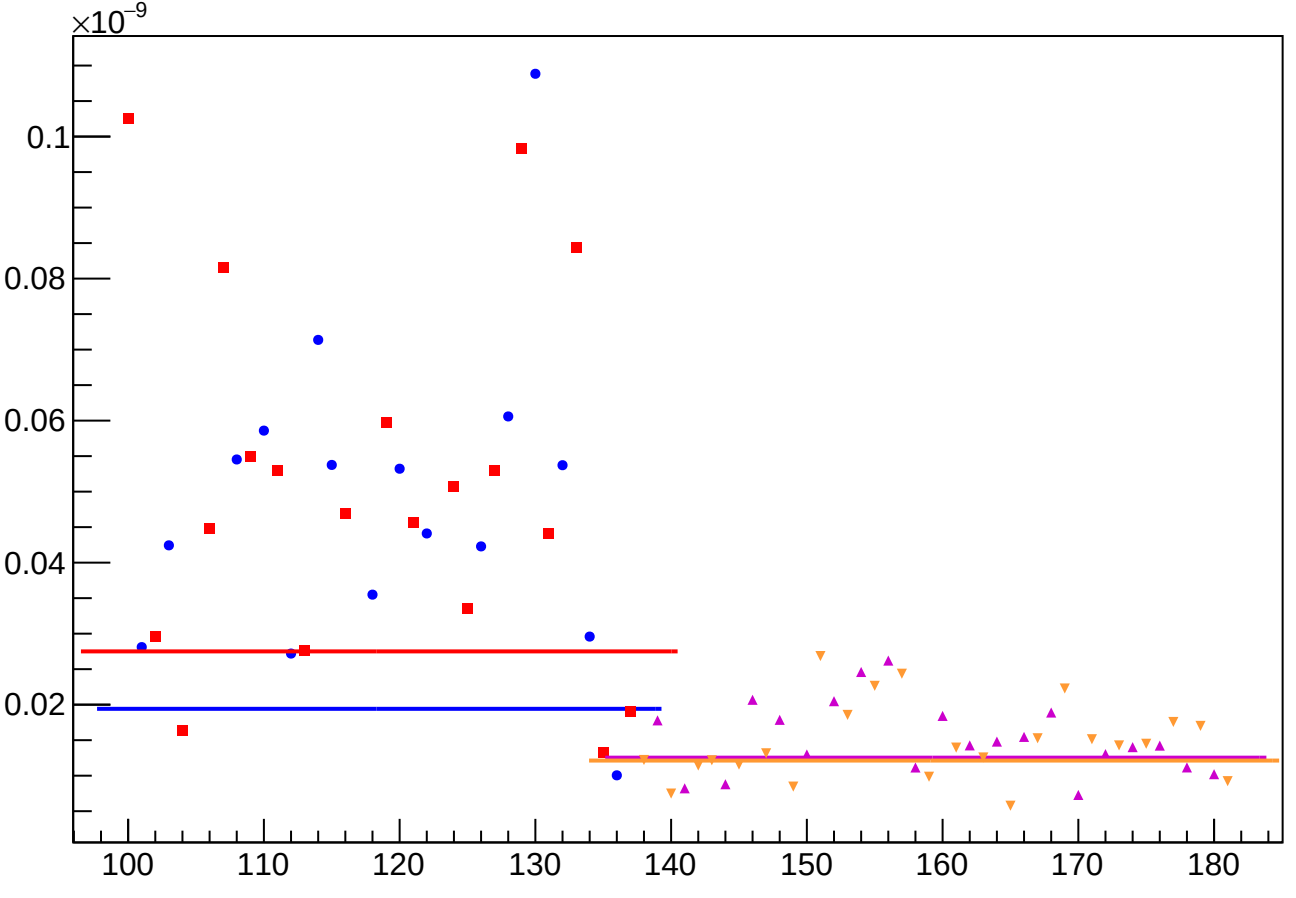
Left: 0.000+/-0.000 $\chi^2$/NDF: 42.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 47.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:48.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:40.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 89.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2274412.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1502565.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1650144.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1382238.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 2890948.9/43

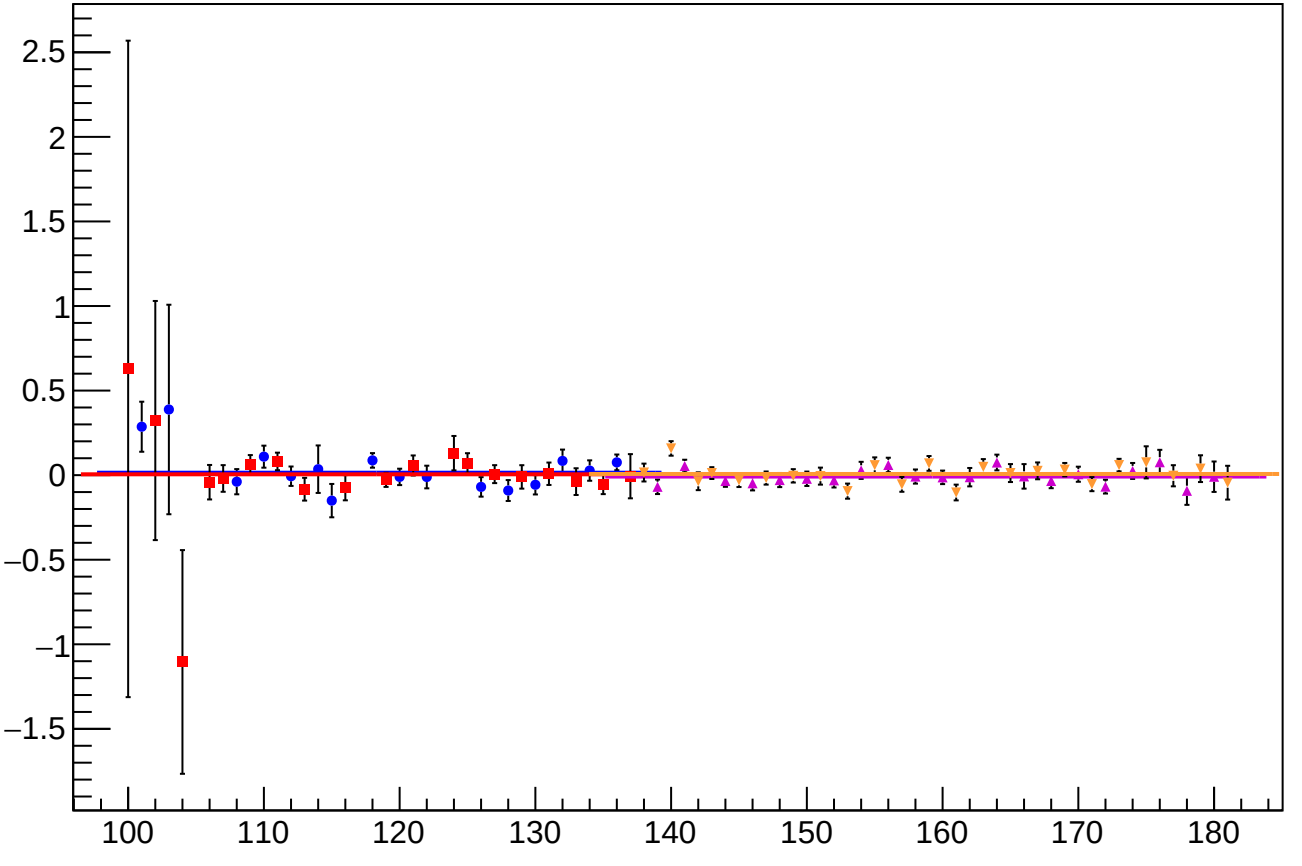
Right: 0.000+/-0.000 $\chi^2$/NDF: 4153449.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:4059099.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4362283.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8423561.9/78

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.007+/-0.010 $\chi^2$/NDF:36.9/22

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.008+/-0.010 $\chi^2$/NDF:18.7/20

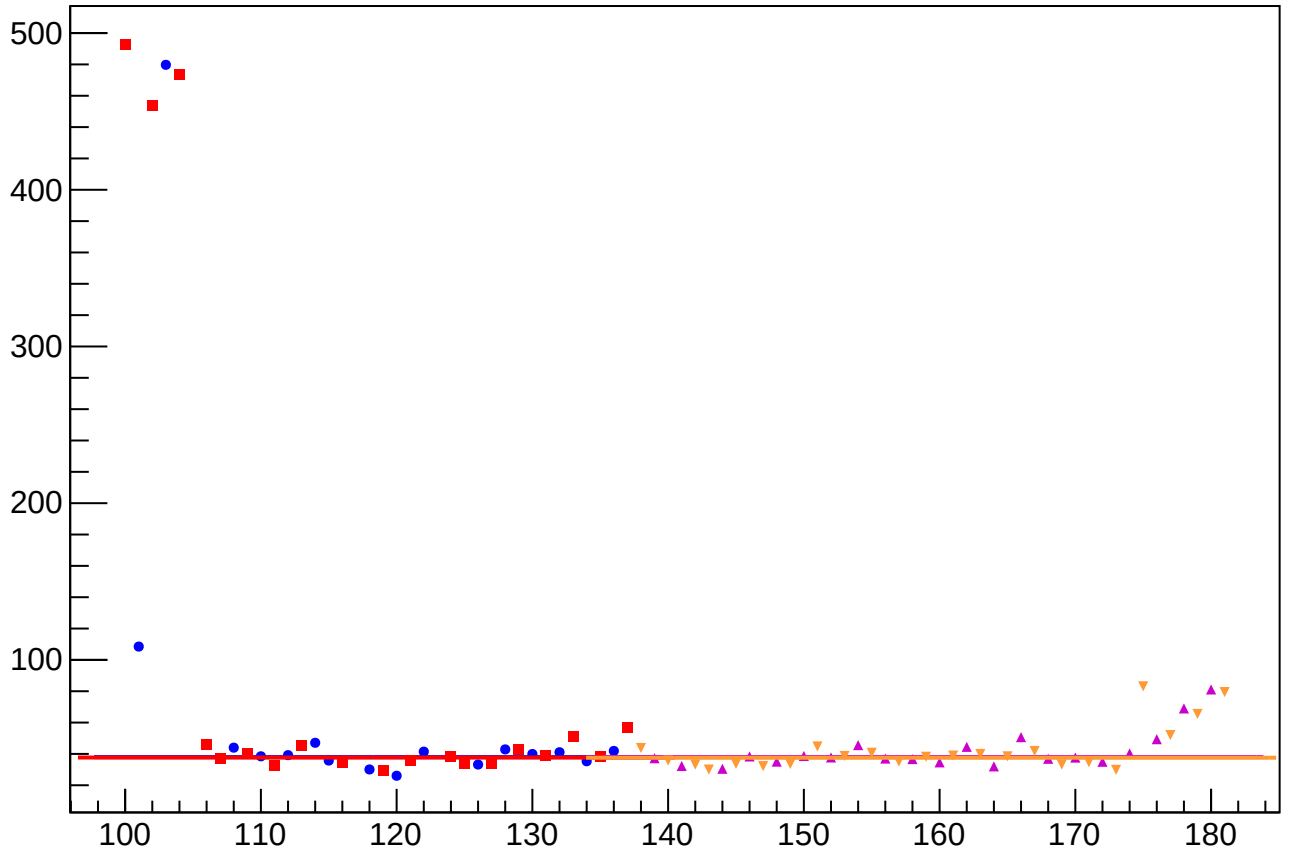
Left: -0.000+/-0.007 $\chi^2$/NDF: 56.7/43

Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: -0.002+/-0.008 $\chi^2$/NDF:42.2/36

Out: 0.006+/-0.008 $\chi^2$/NDF:51.8/41

All: 0.002+/-0.006 $\chi^2$/NDF: 94.4/78




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739669.4/15

Left Out: 37.571+/-0.007 $\chi^2$/NDF:1585558.7/22

Right Out: 37.696+/-0.011 $\chi^2$/NDF: 1944881.8/18

Left In: 37.986+/-0.007 $\chi^2$/NDF:1141266.4/20

Left: 37.772+/-0.005 $\chi^2$/NDF: 2728608.6/43

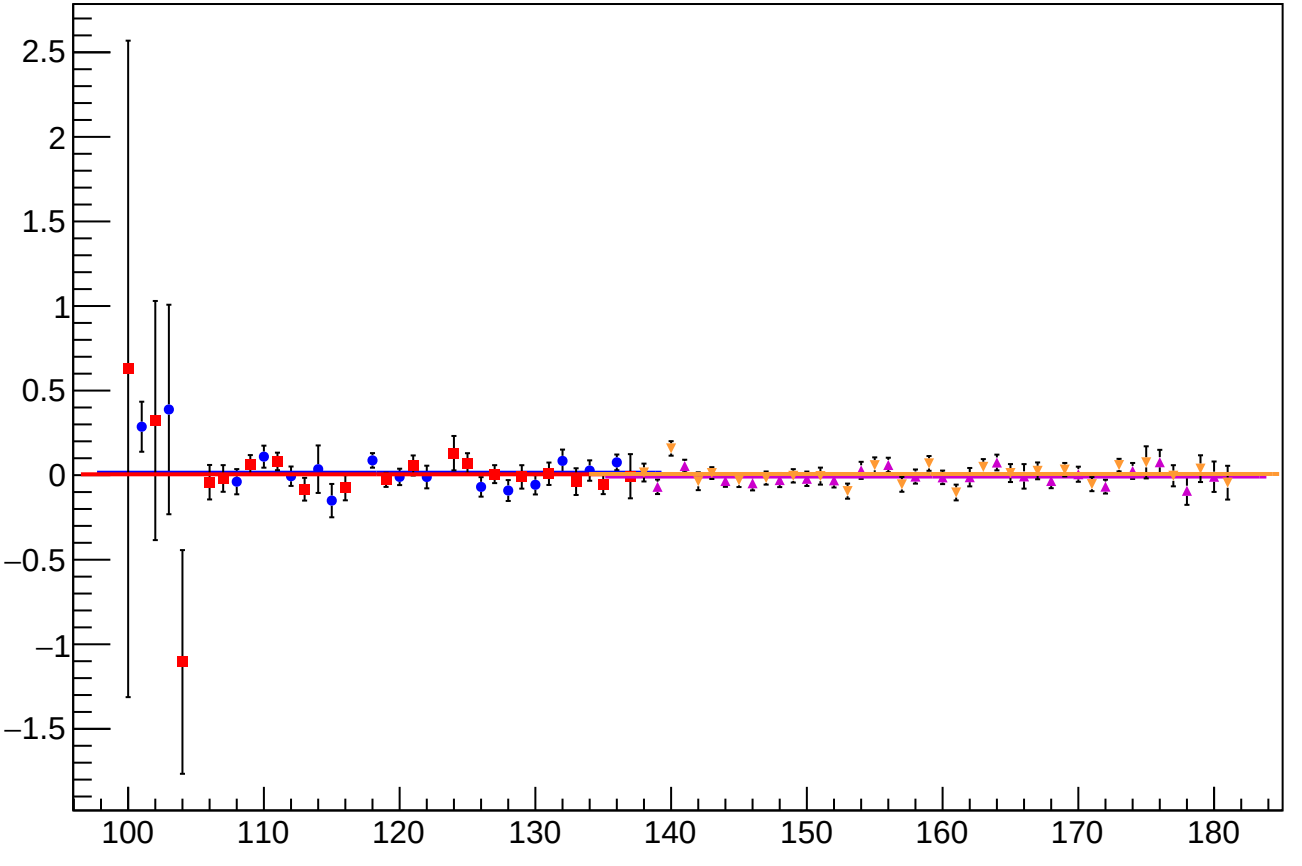
Right: 37.820+/-0.008 $\chi^2$/NDF: 3684788.8/34

In: 37.974+/-0.006 $\chi^2$/NDF:2880946.6/36

Out: 37.604+/-0.006 $\chi^2$/NDF:3530529.7/41

All: 37.785+/-0.004 $\chi^2$/NDF: 6413423.6/78

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.007+/-0.010 $\chi^2$/NDF:36.9/22

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.008+/-0.010 $\chi^2$/NDF:18.7/20

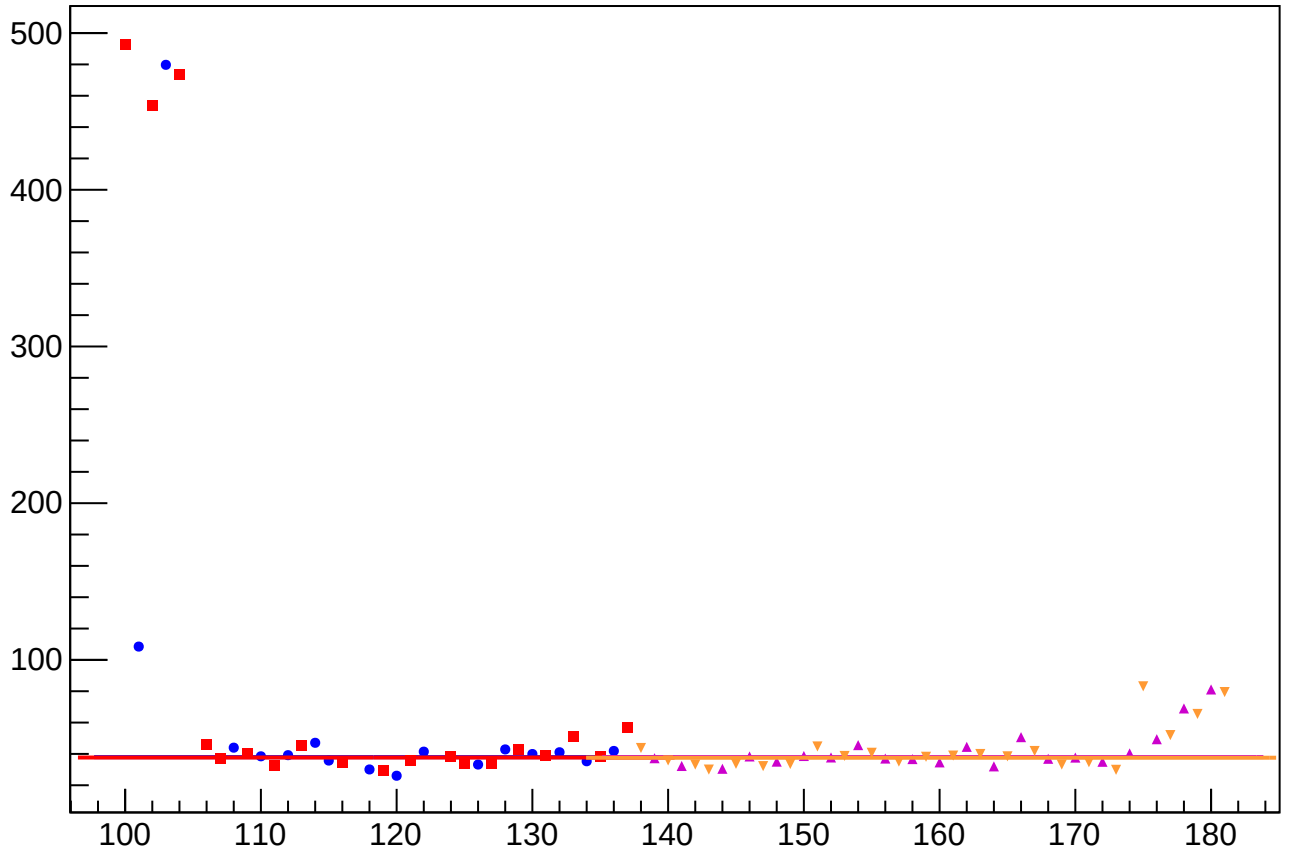
Left: -0.000+/-0.007 $\chi^2$/NDF: 56.7/43

Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: -0.002+/-0.008 $\chi^2$/NDF:42.2/36

Out: 0.006+/-0.008 $\chi^2$/NDF:51.8/41

All: 0.002+/-0.006 $\chi^2$/NDF: 94.4/78




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739669.4/15

Left Out: 37.571+/-0.007 $\chi^2$/NDF:1585558.7/22

Right Out: 37.696+/-0.011 $\chi^2$/NDF: 1944881.8/18

Left In: 37.986+/-0.007 $\chi^2$/NDF:1141266.4/20

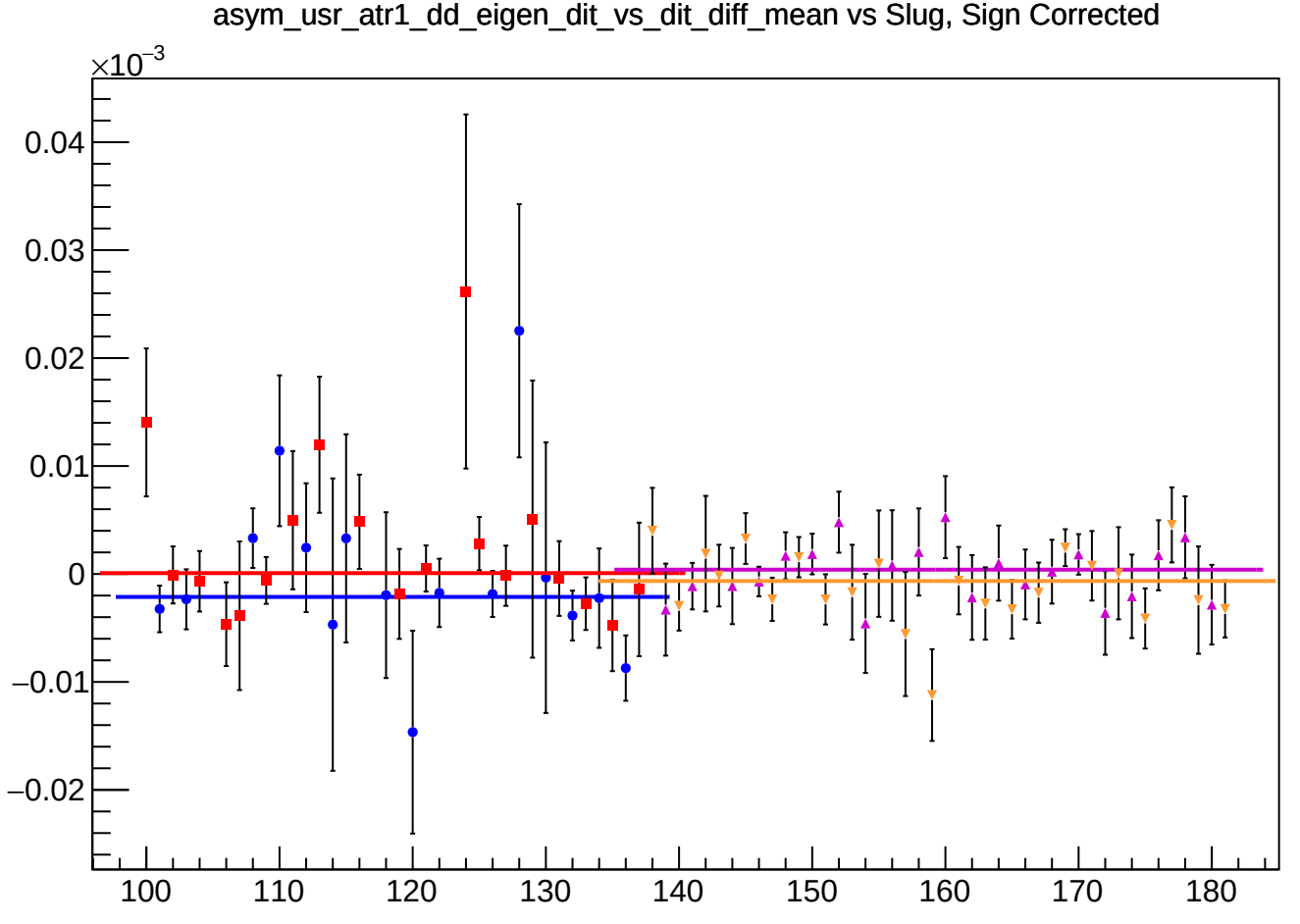
Left: 37.772+/-0.005 $\chi^2$/NDF: 2728608.6/43

Right: 37.820+/-0.008 $\chi^2$/NDF: 3684788.8/34

In: 37.974+/-0.006 $\chi^2$/NDF:2880946.6/36

Out: 37.604+/-0.006 $\chi^2$/NDF:3530529.7/41

All: 37.785+/-0.004 $\chi^2$/NDF: 6413423.6/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:25.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:12.7/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 39.3/43

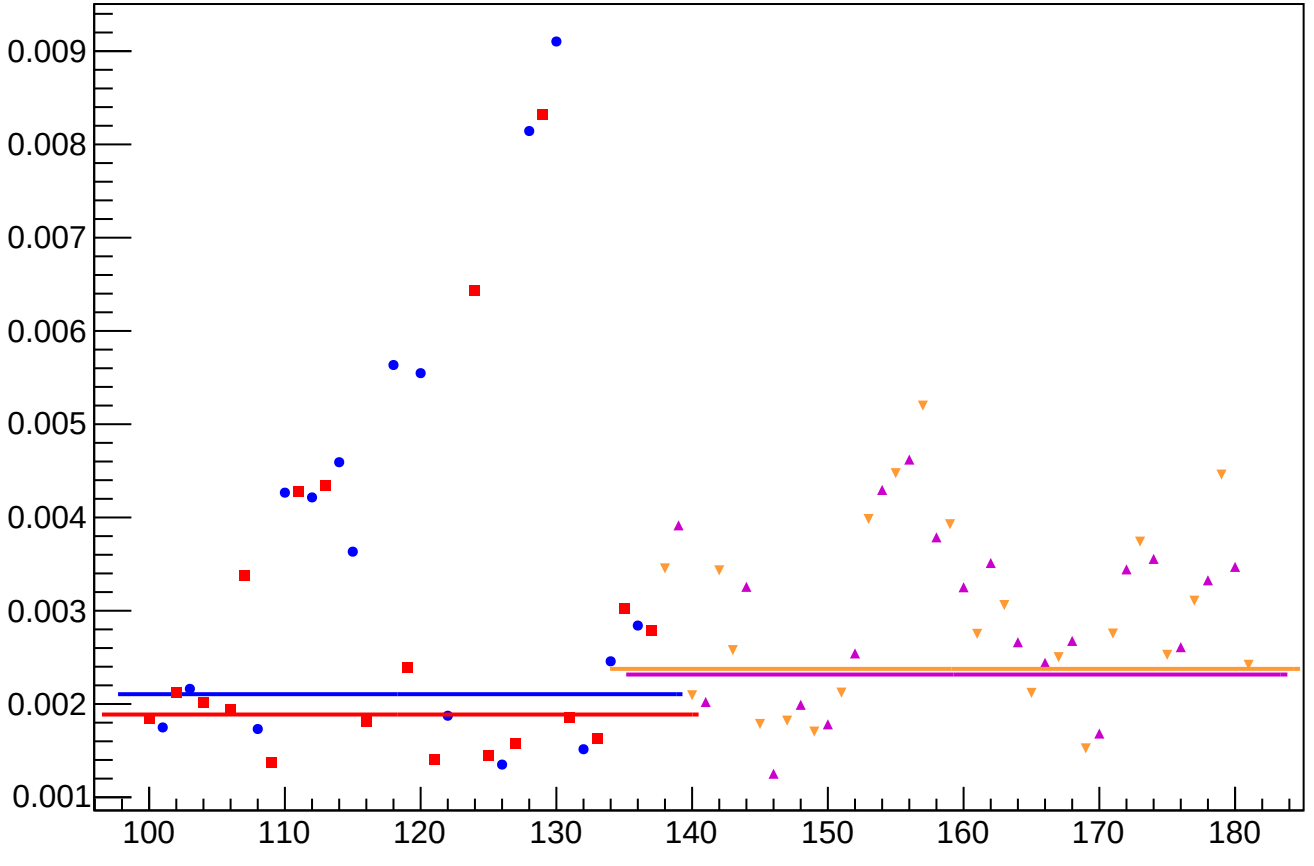
Right: -0.000+/-0.000 $\chi^2$/NDF: 42.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:38.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:44.0/41

All: -0.000+/-0.000 $\chi^2$/NDF: 82.5/78

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3017568.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3519987.8/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 1892000.0/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:4246888.8/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 7777184.9/43

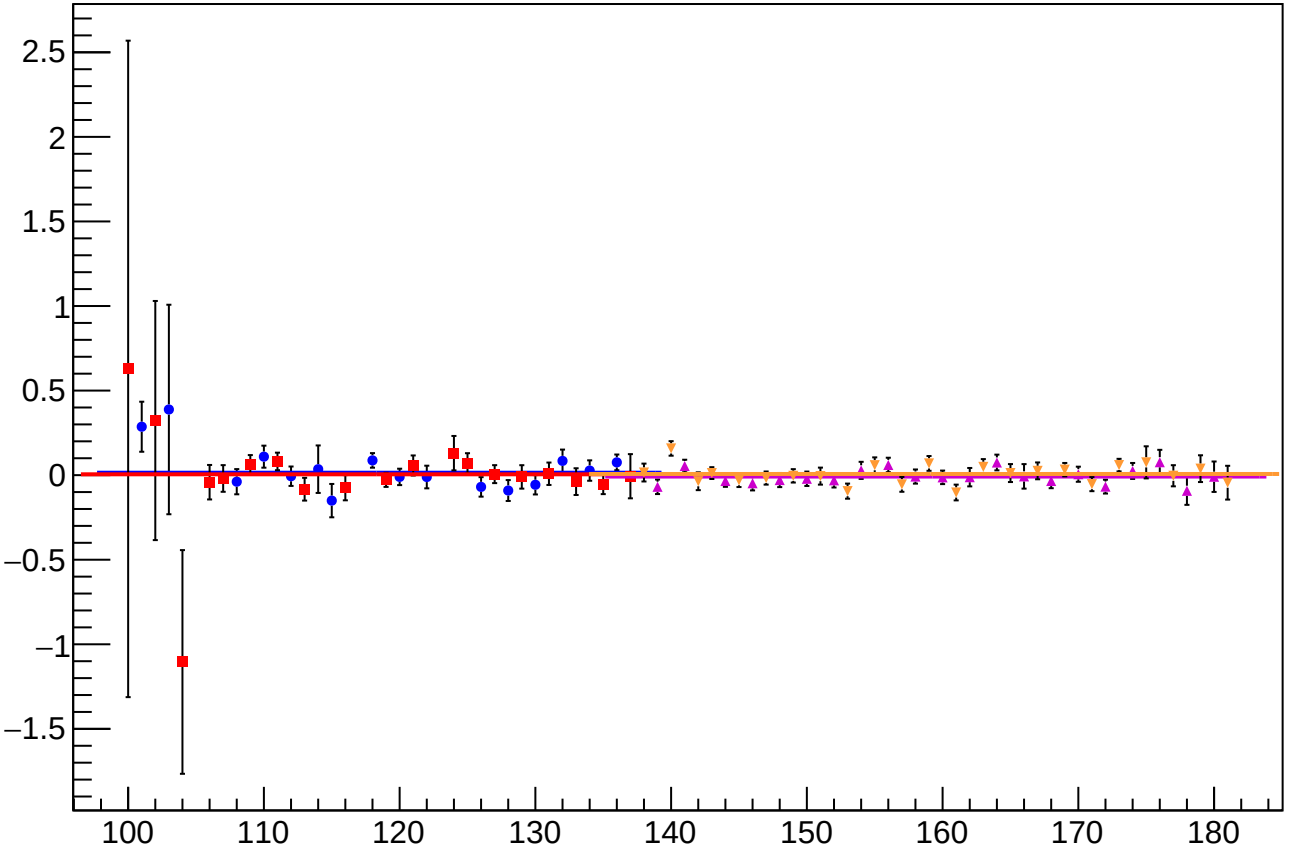
Right: 0.002+/-0.000 $\chi^2$/NDF: 4976274.3/34

In: 0.002+/-0.000 $\chi^2$/NDF:7340387.4/36

Out: 0.002+/-0.000 $\chi^2$/NDF:5903714.1/41

All: 0.002+/-0.000 $\chi^2$/NDF: 13254643.0/78

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.007+/-0.010 $\chi^2$/NDF:36.9/22

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.008+/-0.010 $\chi^2$/NDF:18.7/20

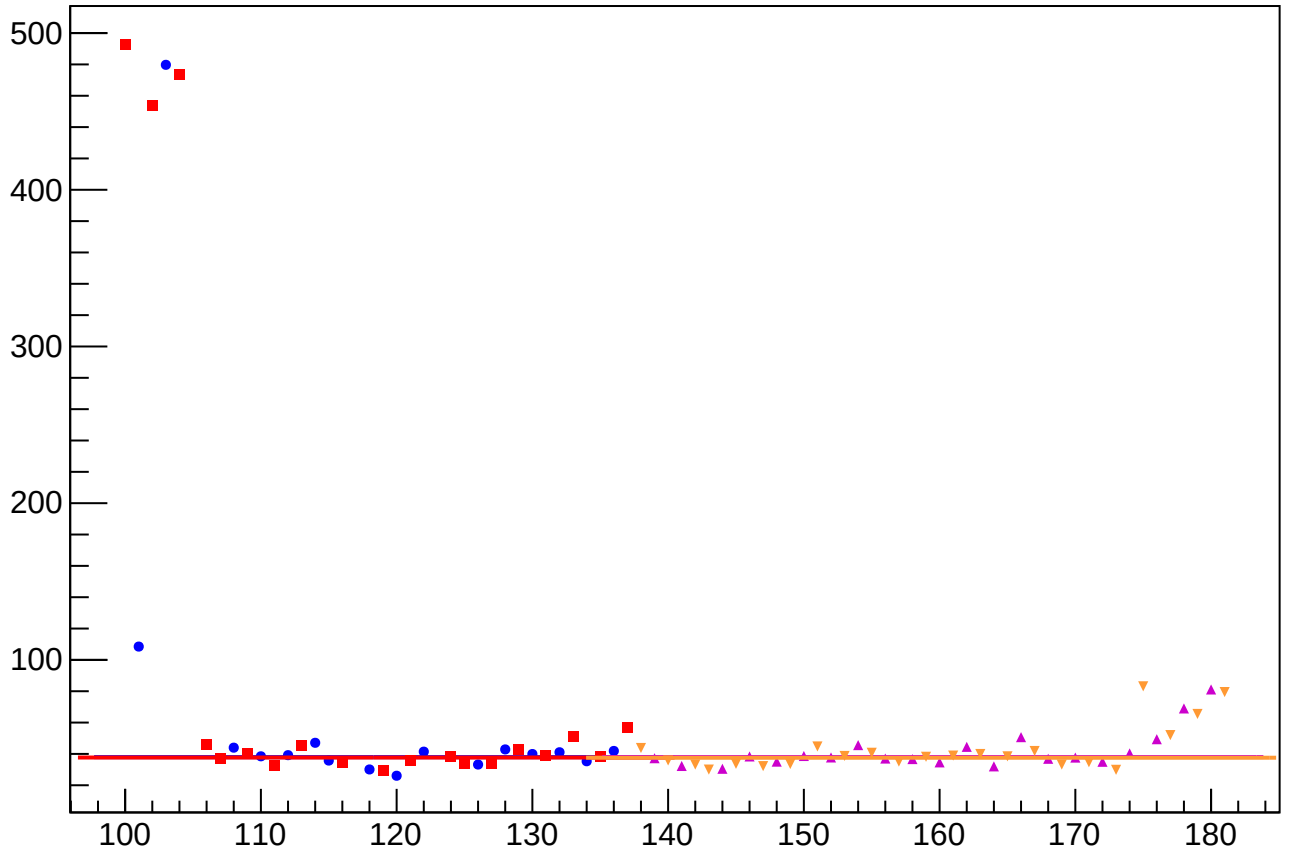
Left: -0.000+/-0.007 $\chi^2$/NDF: 56.7/43

Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: -0.002+/-0.008 $\chi^2$/NDF:42.2/36

Out: 0.006+/-0.008 $\chi^2$/NDF:51.8/41

All: 0.002+/-0.006 $\chi^2$/NDF: 94.4/78




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739681.1/15

Left Out: 37.570+/-0.007 $\chi^2$/NDF:1585571.1/22

Right Out: 37.695+/-0.011 $\chi^2$/NDF: 1944959.2/18

Left In: 37.986+/-0.007 $\chi^2$/NDF:1141293.5/20

Left: 37.772+/-0.005 $\chi^2$/NDF: 2728646.2/43

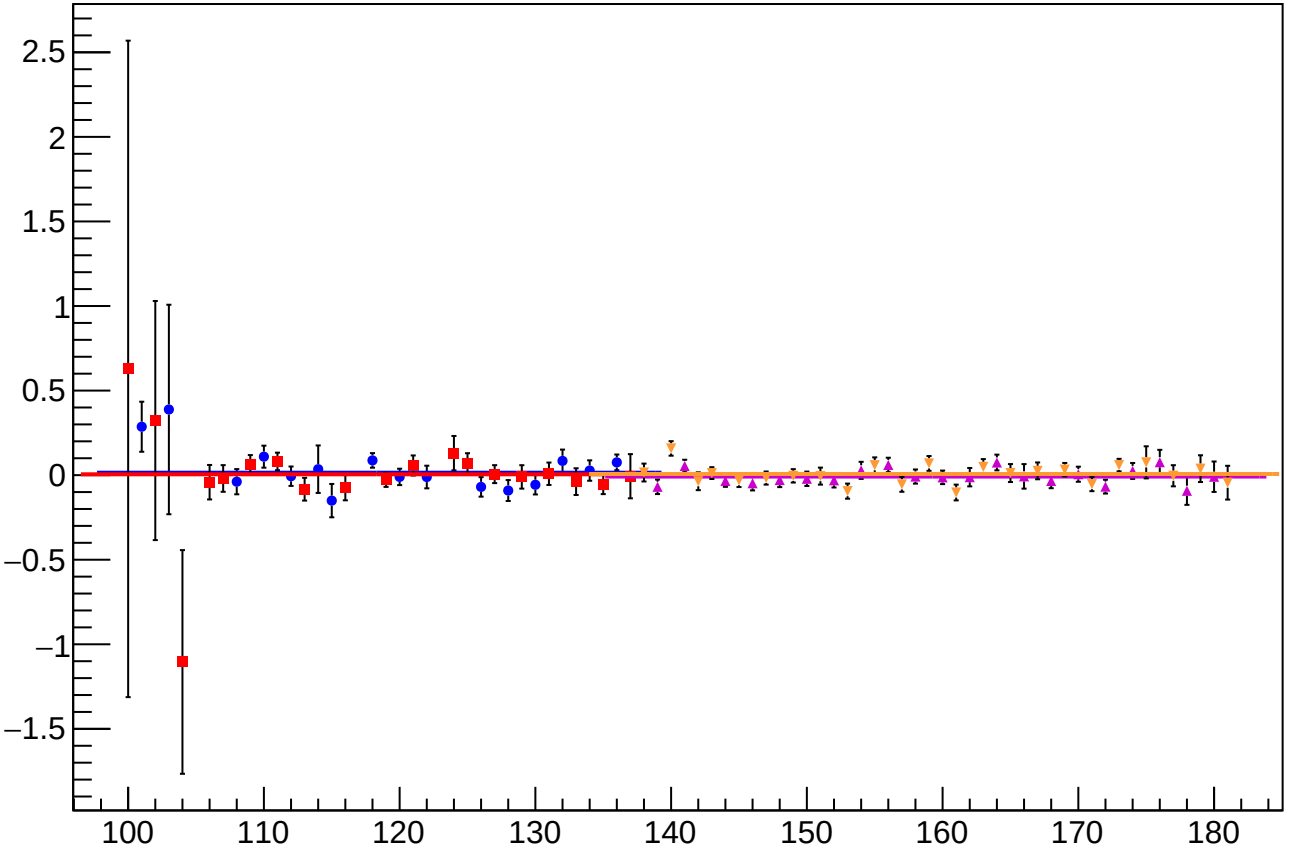
Right: 37.819+/-0.008 $\chi^2$/NDF: 3684879.3/34

In: 37.973+/-0.006 $\chi^2$/NDF:2880985.5/36

Out: 37.604+/-0.006 $\chi^2$/NDF:3530617.9/41

All: 37.785+/-0.004 $\chi^2$/NDF: 6413551.1/78

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.007+/-0.010 $\chi^2$/NDF:36.9/22

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.008+/-0.010 $\chi^2$/NDF:18.7/20

Left: -0.000+/-0.007 $\chi^2$/NDF: 56.7/43

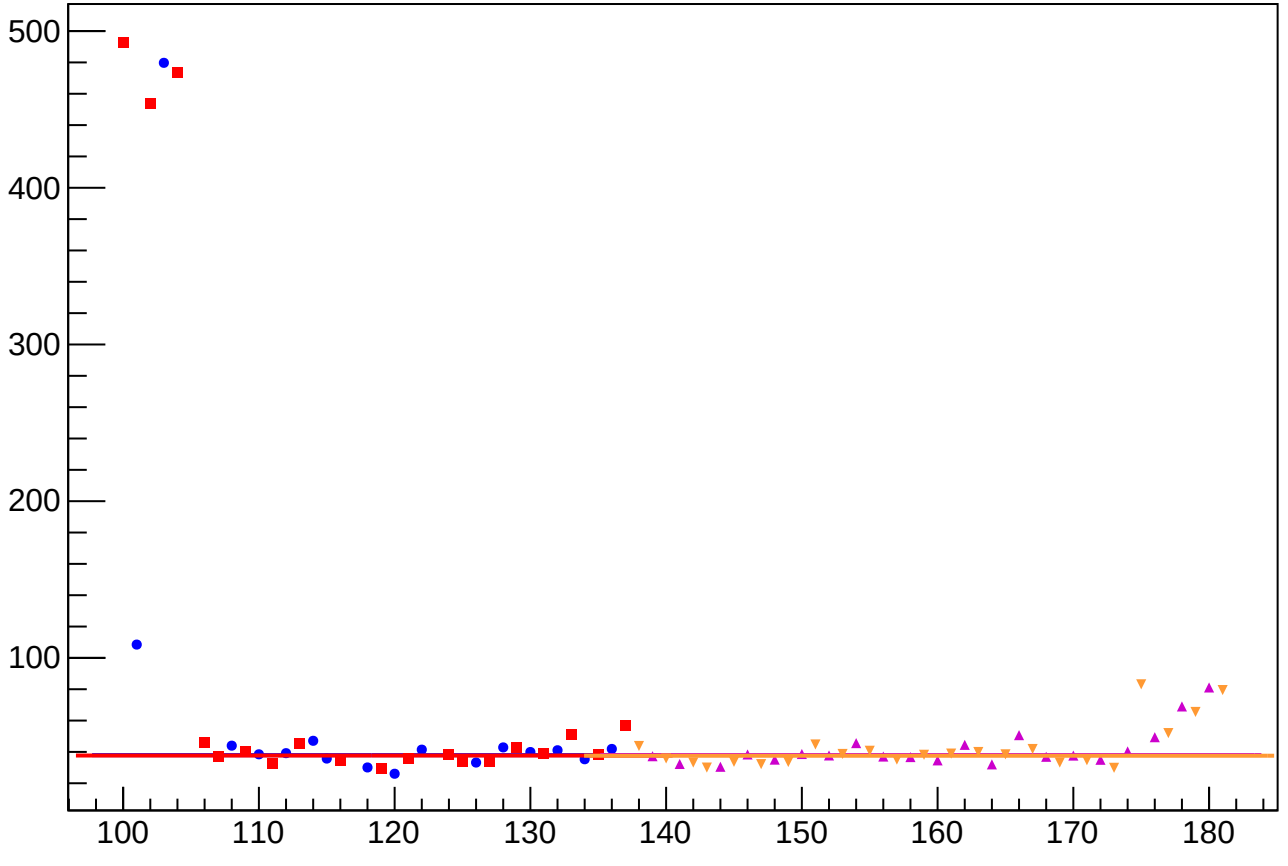
Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: -0.002+/-0.008 $\chi^2$/NDF:42.2/36

Out: 0.006+/-0.008 $\chi^2$/NDF:51.8/41

All: 0.002+/-0.006 $\chi^2$/NDF: 94.4/78

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739681.1/15

Left Out: 37.570+/-0.007 $\chi^2$/NDF:1585571.1/22

Right Out: 37.695+/-0.011 $\chi^2$/NDF: 1944959.2/18

Left In: 37.986+/-0.007 $\chi^2$/NDF:1141293.5/20

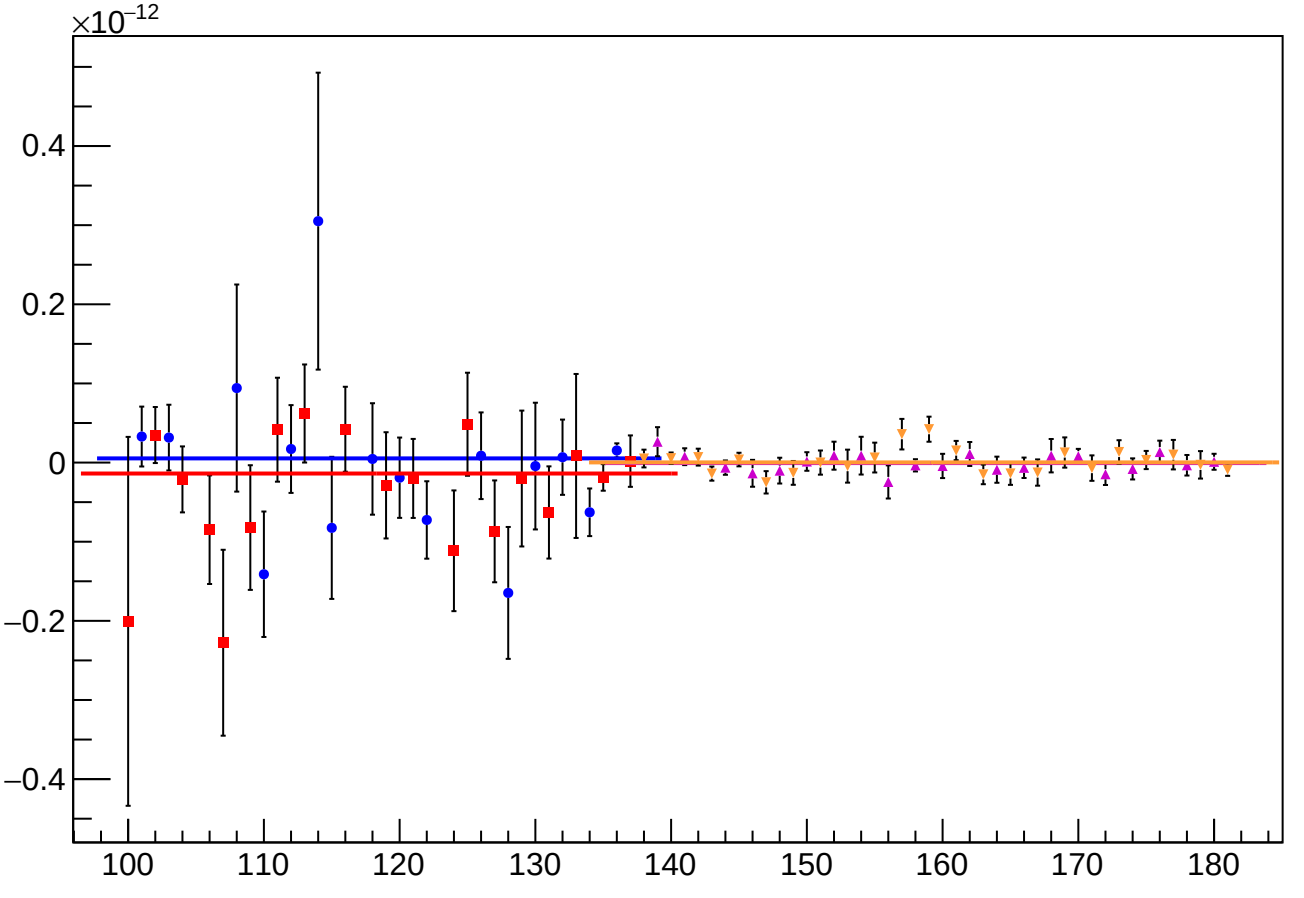
Left: 37.772+/-0.005 $\chi^2$/NDF: 2728646.2/43

Right: 37.819+/-0.008 $\chi^2$/NDF: 3684879.3/34

In: 37.973+/-0.006 $\chi^2$/NDF:2880985.5/36

Out: 37.604+/-0.006 $\chi^2$/NDF:3530617.9/41

All: 37.785+/-0.004 $\chi^2$/NDF: 6413551.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:26.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:10.5/20

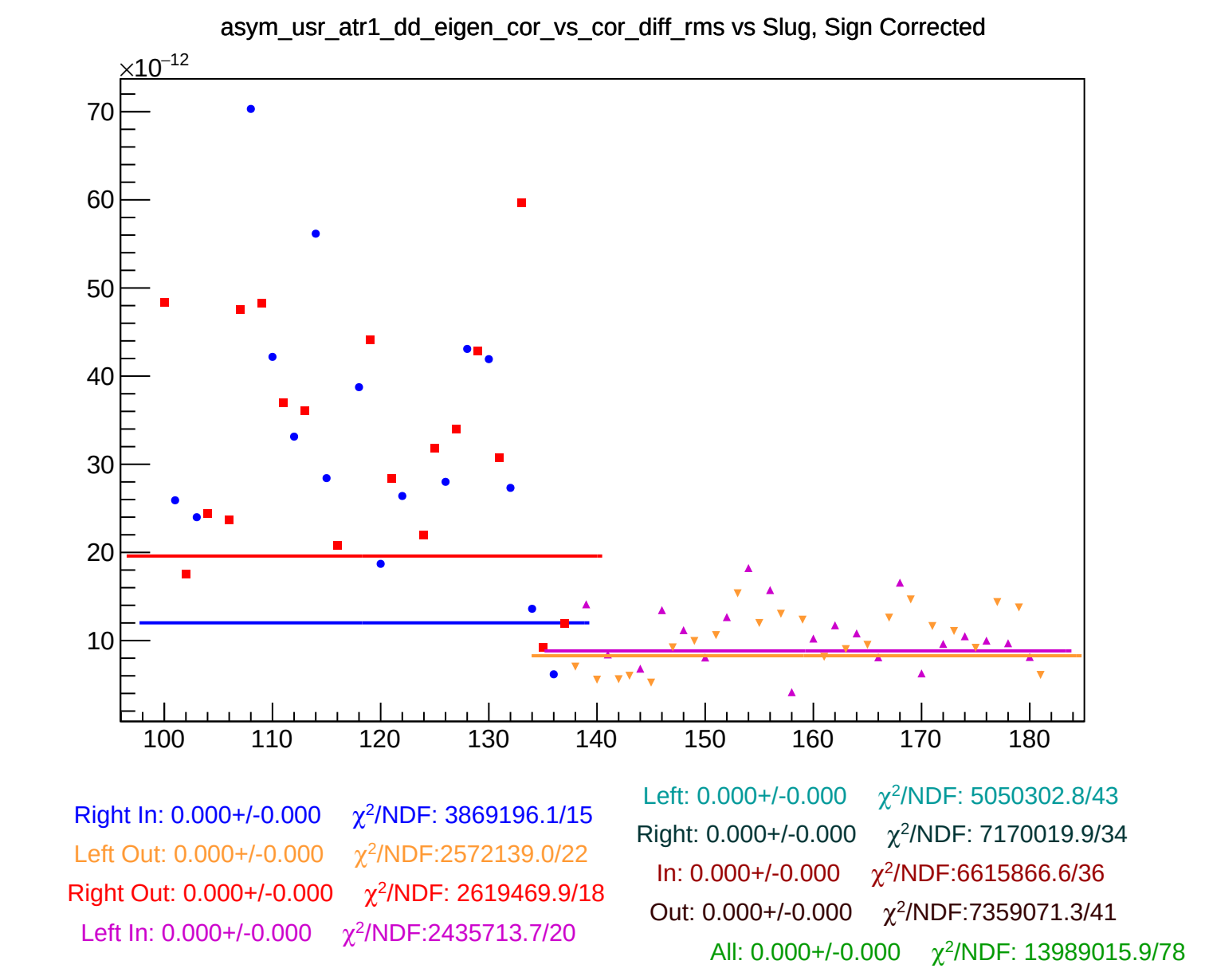
Left: -0.000+/-0.000 $\chi^2$/NDF: 36.6/43

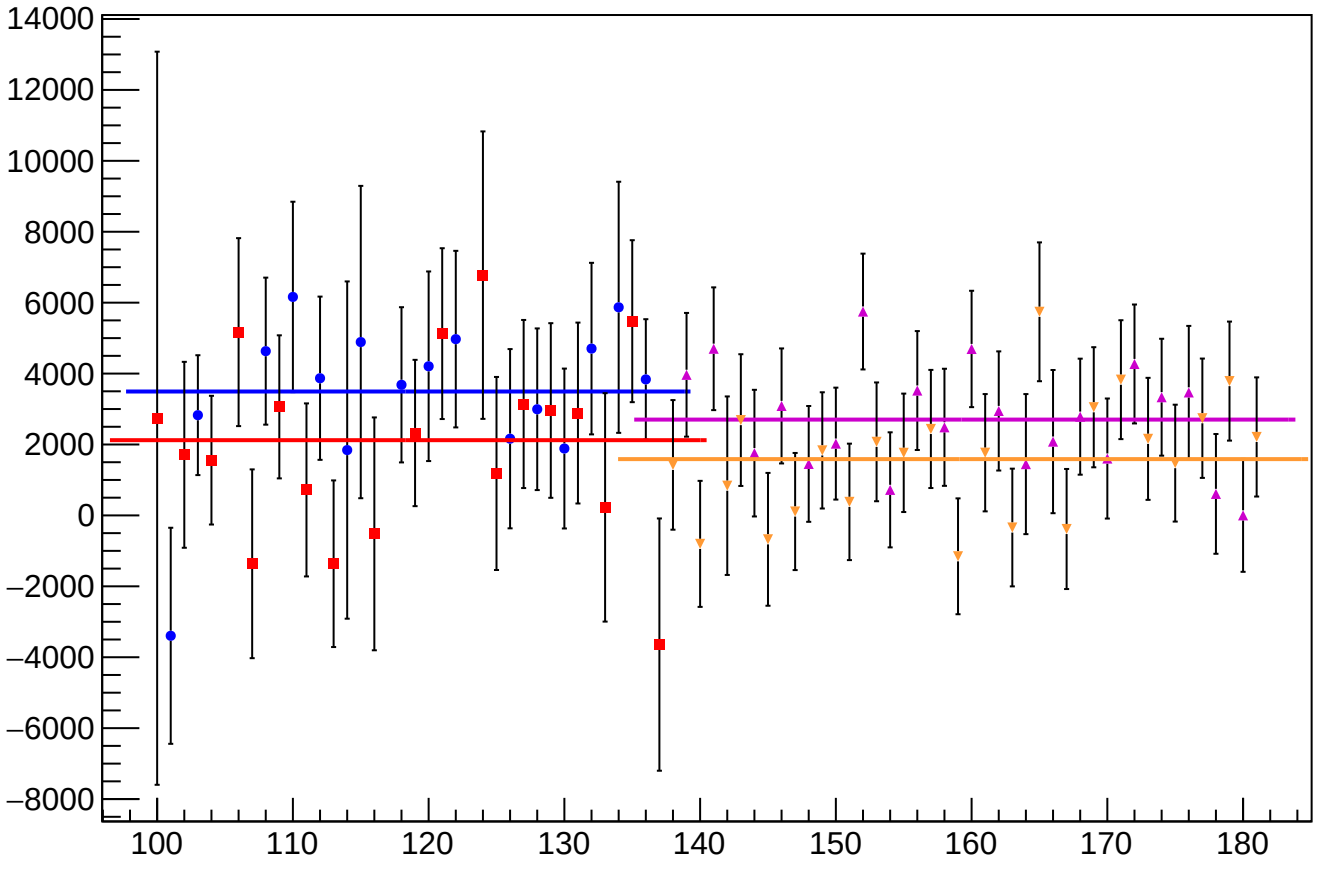
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:32.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:43.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 76.4/78


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 3869196.1/15
Left Out: 0.000+/-0.000 χ²/NDF:2572139.0/22
Right Out: 0.000+/-0.000 χ²/NDF: 2619469.9/18
Left In: 0.000+/-0.000 χ²/NDF:2435713.7/20
Left: 0.000+/-0.000 χ²/NDF: 5050302.8/43
Right: 0.000+/-0.000 χ²/NDF: 7170019.9/34
In: 0.000+/-0.000 χ²/NDF:6615866.6/36
Out: 0.000+/-0.000 χ²/NDF:7359071.3/41
All: 0.000+/-0.000 χ²/NDF: 13989015.9/78




Right In: 3494.380+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 1587.649+/-359.938 $\chi^2$/NDF:20.4/22

Right Out: 2121.717+/-587.617 $\chi^2$/NDF: 15.1/18

Left In: 2702.317+/-369.824 $\chi^2$/NDF:16.2/20

Left: 2129.886+/-257.939 $\chi^2$/NDF: 41.3/43

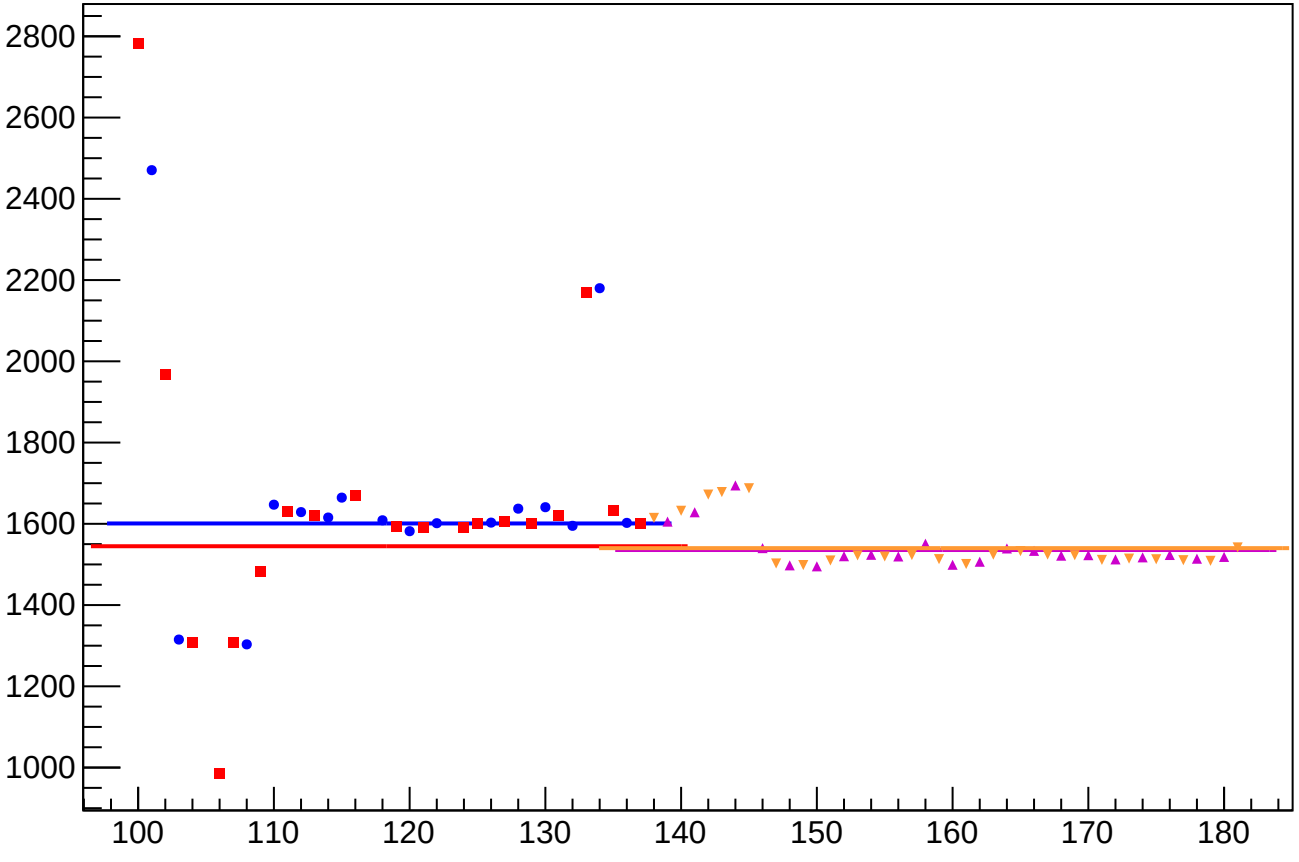
Right: 2792.384+/-420.223 $\chi^2$/NDF: 26.6/34

In: 2919.763+/-314.995 $\chi^2$/NDF:26.3/36

Out: 1733.361+/-306.933 $\chi^2$/NDF:36.1/41

All: 2311.185+/-219.829 $\chi^2$/NDF: 69.7/78

# reg_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317414.0/15

Left Out: 1540.112+/-0.255 $\chi^2$/NDF:46524.1/22

Right Out: 1544.809+/-0.409 $\chi^2$/NDF: 376127.4/18

Left In: 1535.523+/-0.262 $\chi^2$/NDF:30920.9/20

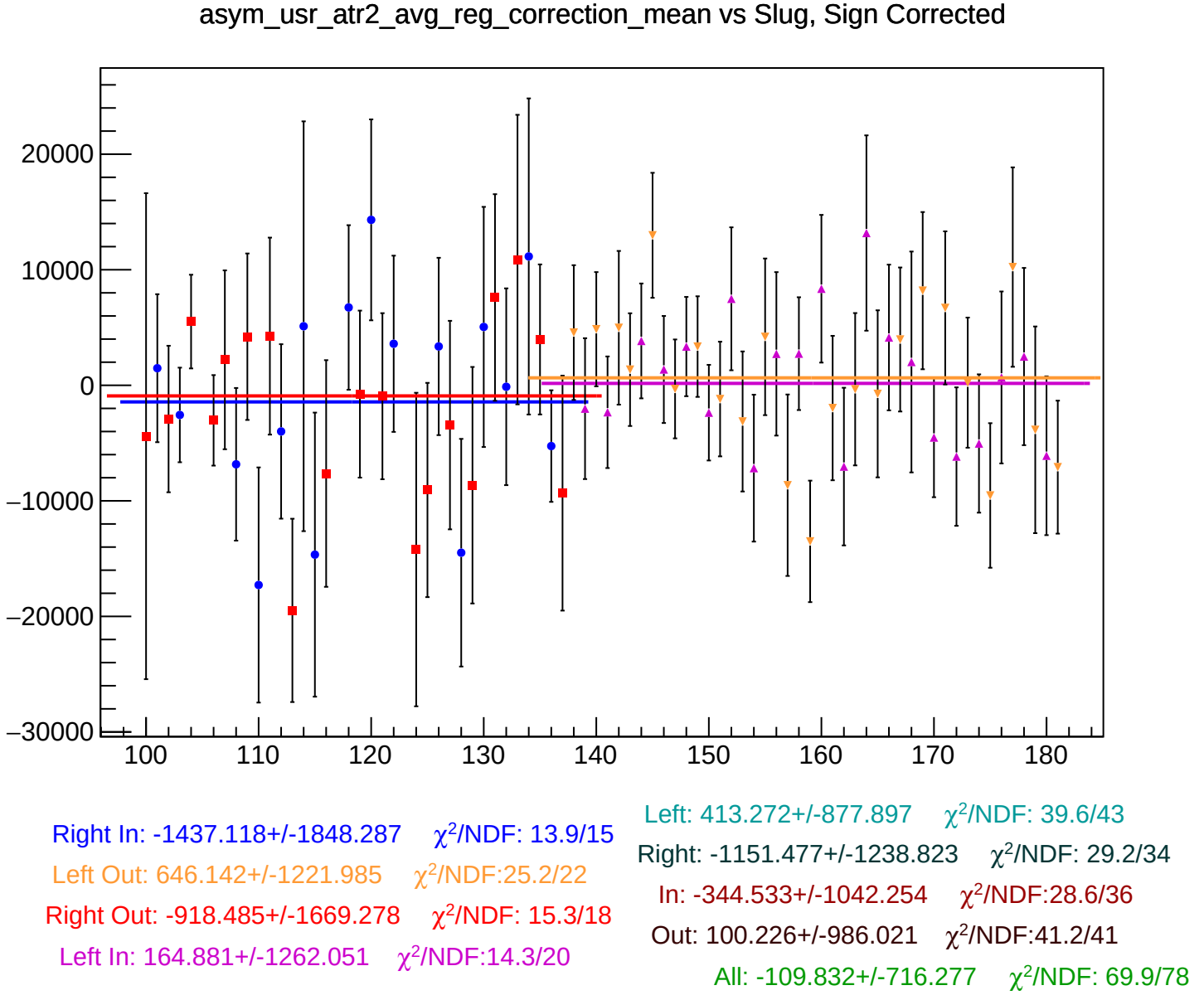
Left: 1537.880+/-0.182 $\chi^2$/NDF: 77603.1/43

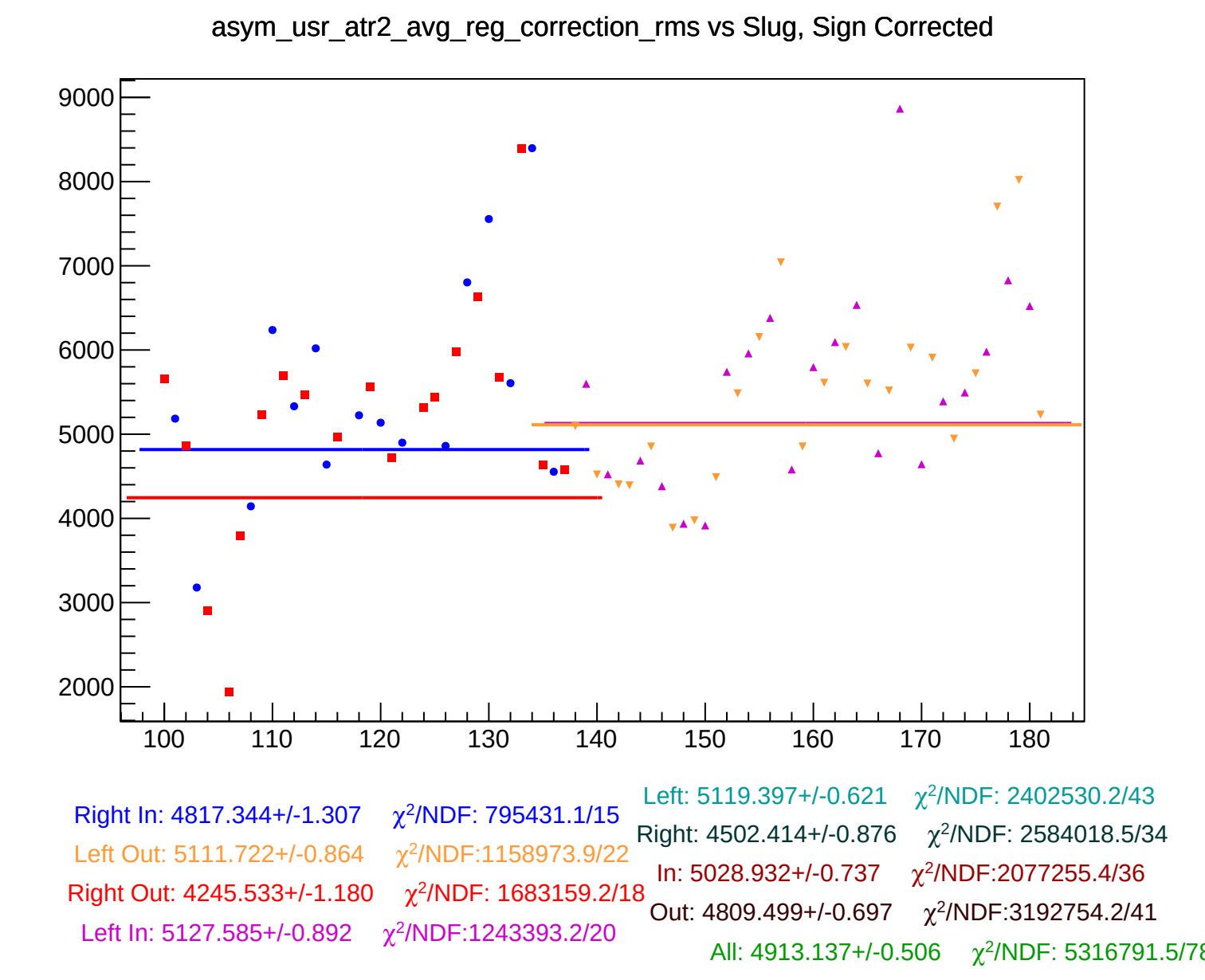
Right: 1571.734+/-0.295 $\chi^2$/NDF: 702584.8/34

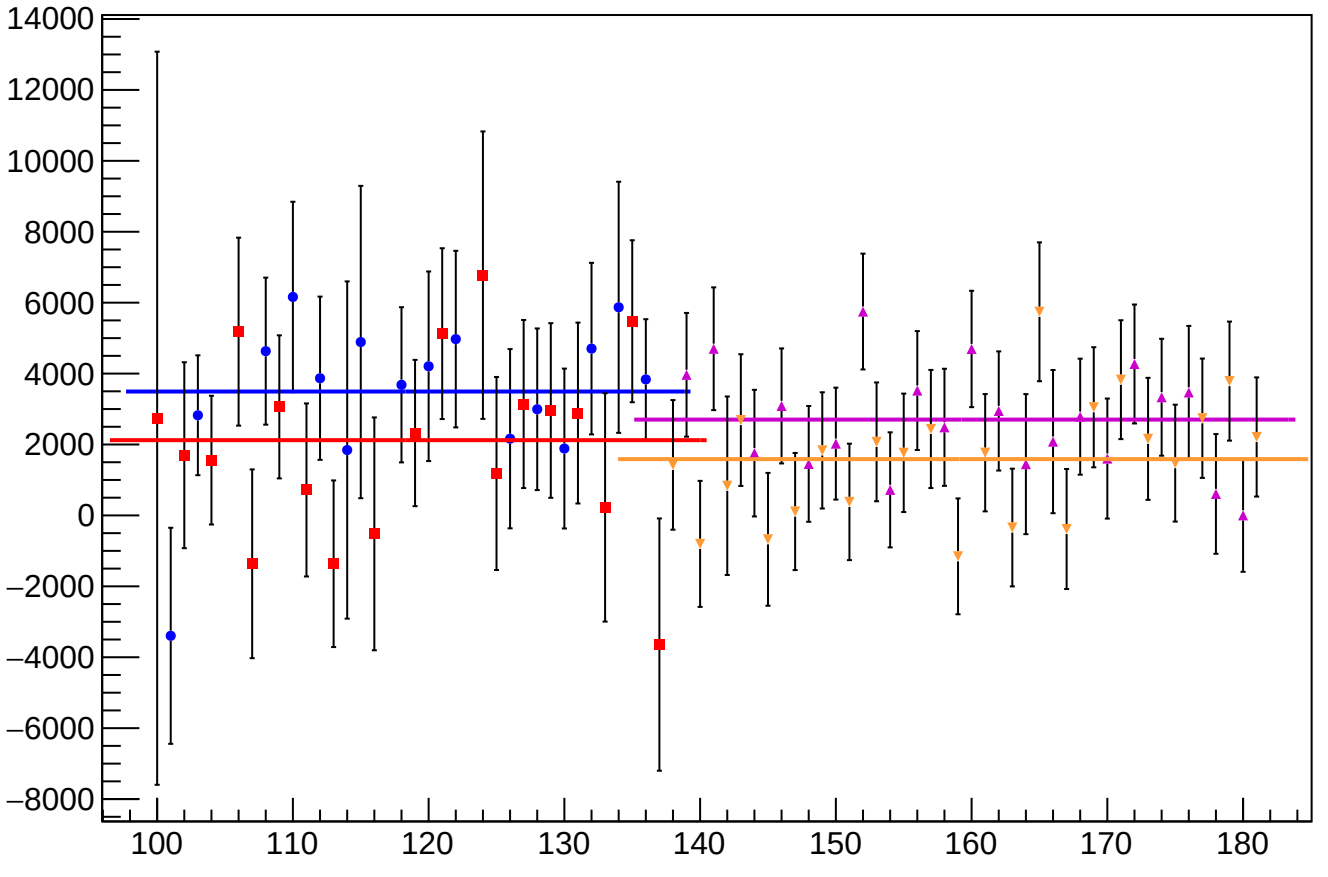
In: 1553.466+/-0.223 $\chi^2$/NDF:365482.5/36

Out: 1541.425+/-0.216 $\chi^2$/NDF:422746.7/41

All: 1547.261+/-0.155 $\chi^2$/NDF: 789735.1/78


asym_usr_atr2_avg_reg_correction_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: -1437.118+/-1848.287 χ²/NDF: 13.9/15
Left Out: 646.142+/-1221.985 χ²/NDF:25.2/22
Right Out: -918.485+/-1669.278 χ²/NDF: 15.3/18
Left In: 164.881+/-1262.051 χ²/NDF:14.3/20
Left: 413.272+/-877.897 χ²/NDF: 39.6/43
Right: -1151.477+/-1238.823 χ²/NDF: 29.2/34
In: -344.533+/-1042.254 χ²/NDF:28.6/36
Out: 100.226+/-986.021 χ²/NDF:41.2/41
All: -109.832+/-716.277 χ²/NDF: 69.9/78


asym_usr_atr2_avg_reg_correction_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
2000
100
110
120
130
140
150
160
170
180
Right In: 4817.344+/-1.307 χ²/NDF: 795431.1/15
Left Out: 5111.722+/-0.864 χ²/NDF:1158973.9/22
Right Out: 4245.533+/-1.180 χ²/NDF: 1683159.2/18
Left In: 5127.585+/-0.892 χ²/NDF:1243393.2/20
Left: 5119.397+/-0.621 χ²/NDF: 2402530.2/43
Right: 4502.414+/-0.876 χ²/NDF: 2584018.5/34
In: 5028.932+/-0.737 χ²/NDF:2077255.4/36
Out: 4809.499+/-0.697 χ²/NDF:3192754.2/41
All: 4913.137+/-0.506 χ²/NDF: 5316791.5/78




Right In: 3494.046+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 1587.537+/-359.938 $\chi^2$/NDF:20.4/22

Right Out: 2121.708+/-587.619 $\chi^2$/NDF: 15.1/18

Left In: 2702.237+/-369.824 $\chi^2$/NDF:16.2/20

Left: 2129.790+/-257.939 $\chi^2$/NDF: 41.3/43

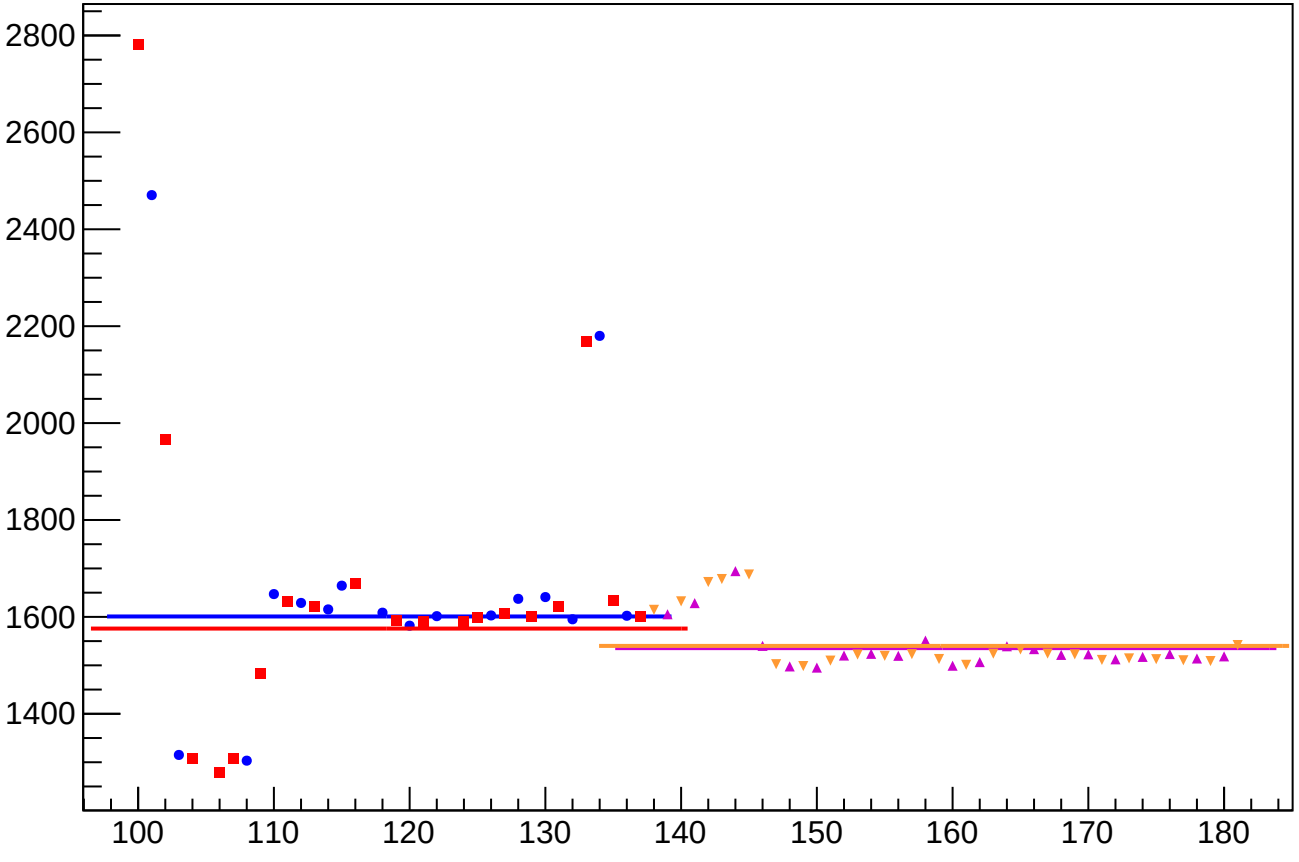
Right: 2792.219+/-420.224 $\chi^2$/NDF: 26.6/34

In: 2919.613+/-314.995 $\chi^2$/NDF:26.3/36

Out: 1733.277+/-306.934 $\chi^2$/NDF:36.1/41

All: 2311.070+/-219.830 $\chi^2$/NDF: 69.7/78

# cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317413.1/15

Left Out: 1540.112+/-0.255 $\chi^2$/NDF:46524.1/22

Right Out: 1575.900+/-0.414 $\chi^2$/NDF: 243332.0/18

Left In: 1535.523+/-0.262 $\chi^2$/NDF:30920.9/20

Left: 1537.880+/-0.182 $\chi^2$/NDF: 77603.1/43

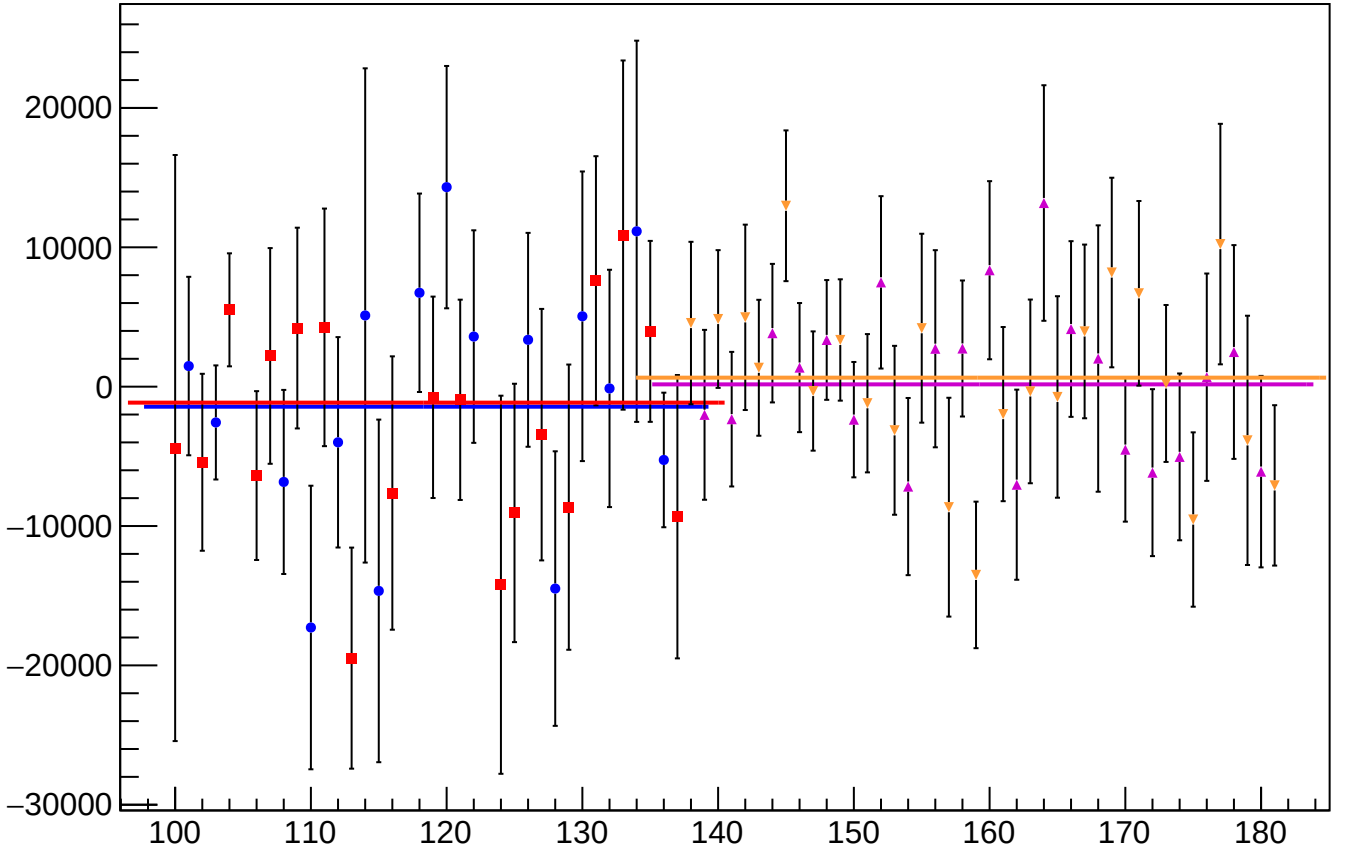
Right: 1588.056+/-0.297 $\chi^2$/NDF: 562517.7/34

In: 1553.466+/-0.223 $\chi^2$/NDF:365481.8/36

Out: 1549.932+/-0.217 $\chi^2$/NDF:295281.6/41

All: 1551.651+/-0.155 $\chi^2$/NDF: 660892.7/78

asym_usr_atr2_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -1437.362+/-1848.324 $\chi^2$/NDF: 13.9/15

Left Out: 646.134+/-1221.983 $\chi^2$/NDF:25.2/22

Right Out: -1146.174+/-1765.384 $\chi^2$/NDF: 16.3/18

Left In: 164.881+/-1262.051 $\chi^2$/NDF:14.3/20

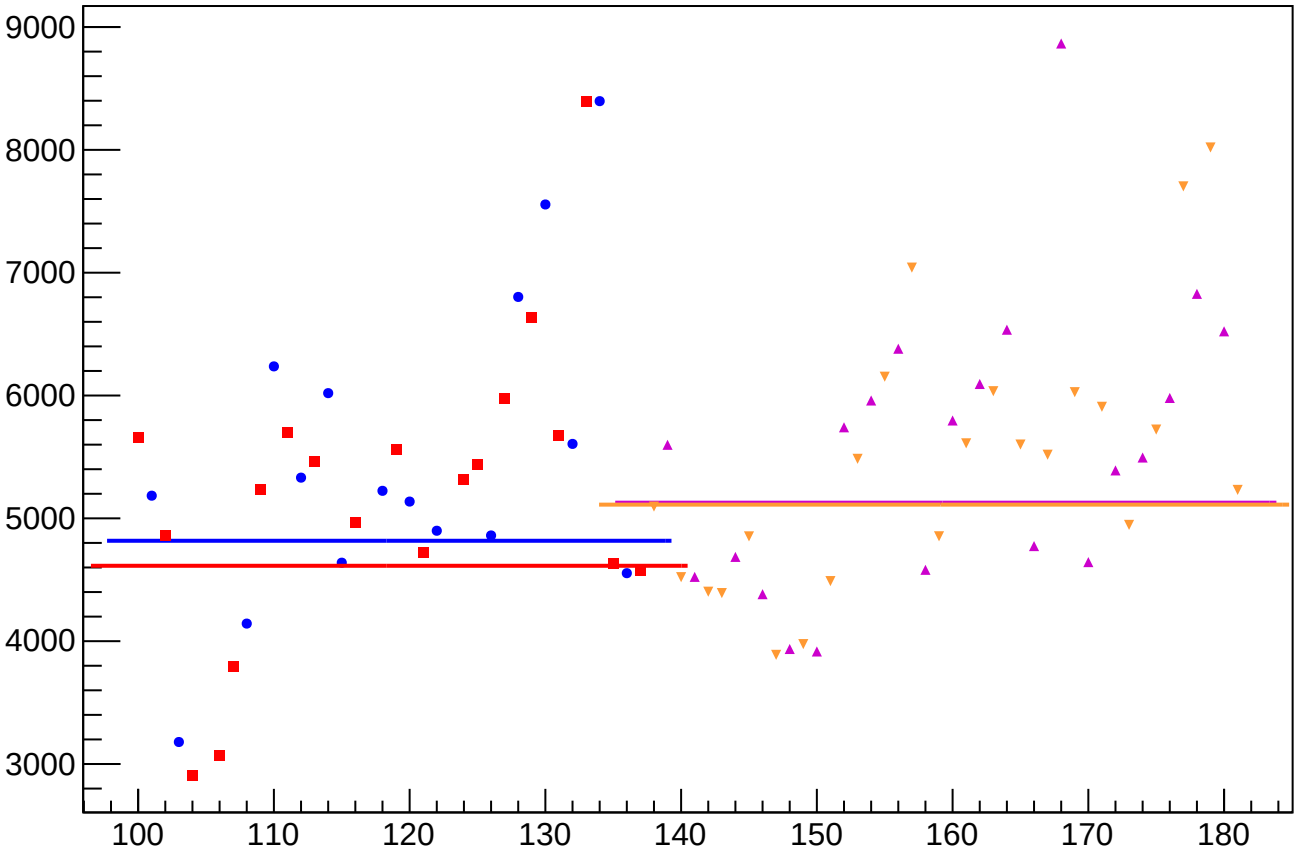
Left: 413.268+/-877.896 $\chi^2$/NDF: 39.6/43

Right: -1285.089+/-1276.630 $\chi^2$/NDF: 30.1/34

In: -344.596+/-1042.261 $\chi^2$/NDF:28.6/36

Out: 65.558+/-1004.760 $\chi^2$/NDF:42.2/41

All: -132.008+/-723.367 $\chi^2$/NDF: 70.9/78




Right In: 4817.480+/-1.307 $\chi^2$/NDF: 795233.3/15

Left Out: 5111.712+/-0.864 $\chi^2$/NDF:1158986.6/22

Right Out: 4613.851+/-1.248 $\chi^2$/NDF: 977958.2/18

Left In: 5127.583+/-0.892 $\chi^2$/NDF:1243393.6/20

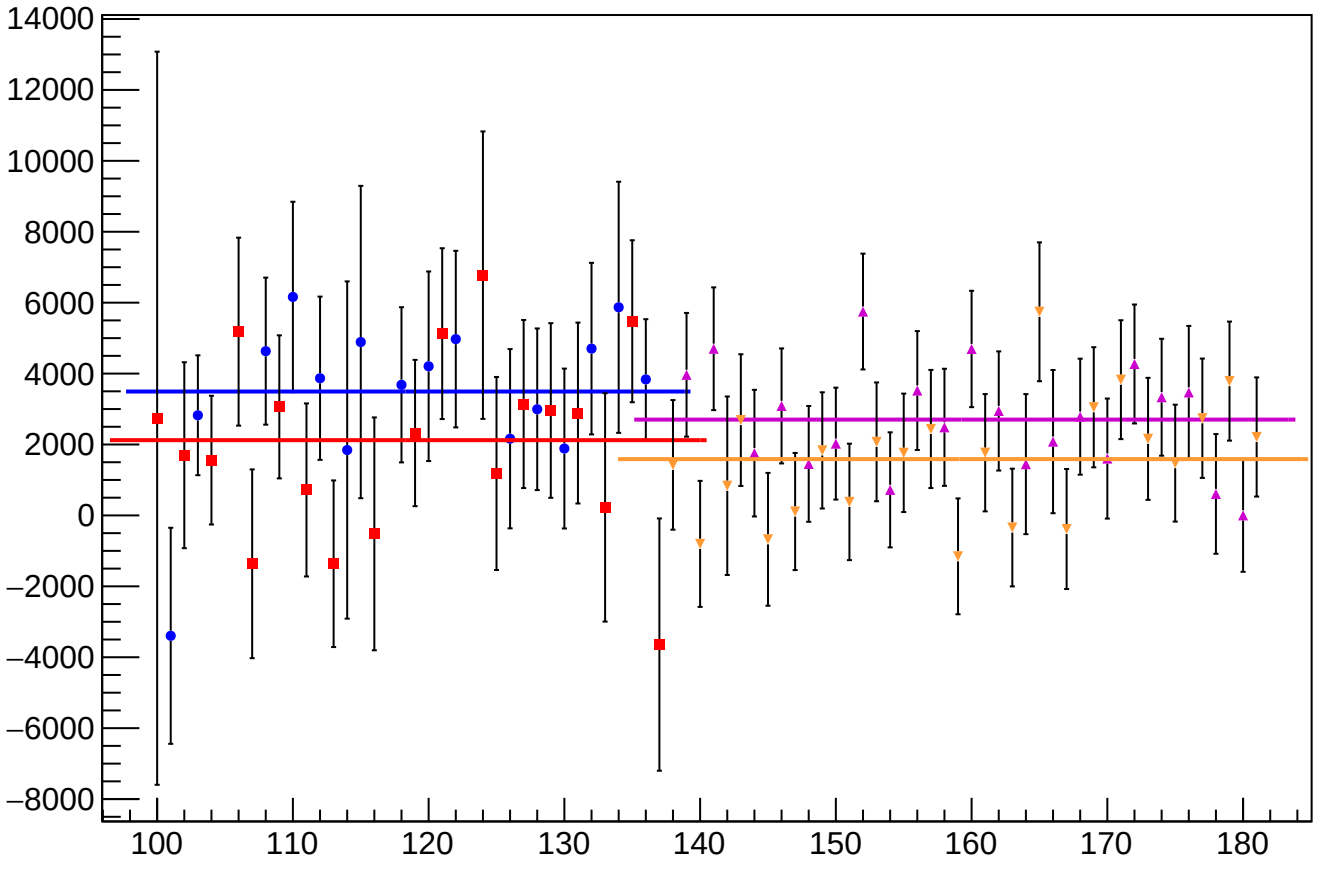
Left: 5119.391+/-0.621 $\chi^2$/NDF: 2402543.5/43

Right: 4710.994+/-0.903 $\chi^2$/NDF: 1785885.7/34

In: 5028.977+/-0.737 $\chi^2$/NDF:2077022.8/36

Out: 4950.441+/-0.710 $\chi^2$/NDF:2244482.8/41

All: 4988.271+/-0.511 $\chi^2$/NDF: 4327391.5/78




Right In: 3494.046+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 1587.537+/-359.938 $\chi^2$/NDF:20.4/22

Right Out: 2121.708+/-587.619 $\chi^2$/NDF: 15.1/18

Left In: 2702.237+/-369.824 $\chi^2$/NDF:16.2/20

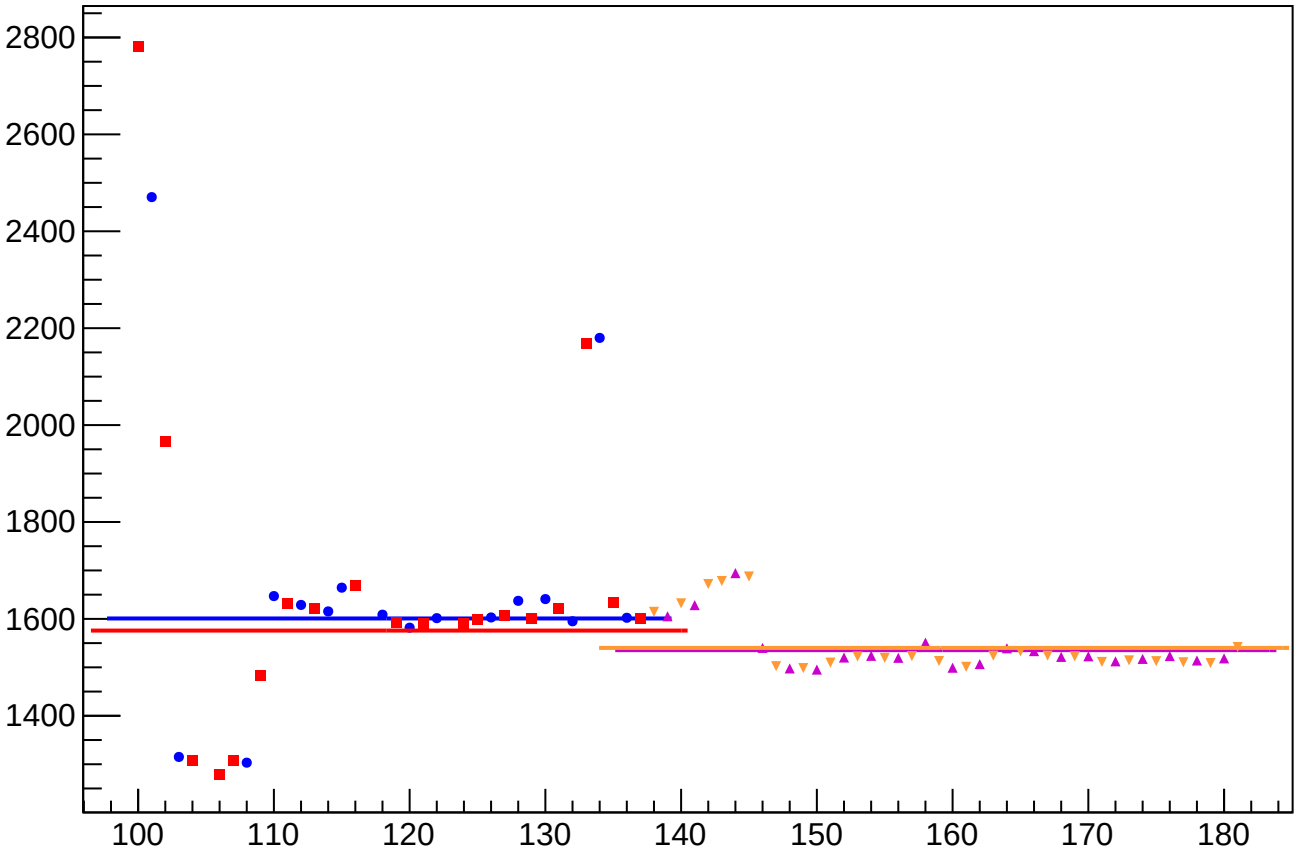
Left: 2129.790+/-257.939 $\chi^2$/NDF: 41.3/43

Right: 2792.219+/-420.224 $\chi^2$/NDF: 26.6/34

In: 2919.613+/-314.995 $\chi^2$/NDF:26.3/36

Out: 1733.277+/-306.934 $\chi^2$/NDF:36.1/41

All: 2311.070+/-219.830 $\chi^2$/NDF: 69.7/78




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317413.1/15

Left Out: 1540.112+/-0.255 $\chi^2$/NDF:46524.1/22

Right Out: 1575.900+/-0.414 $\chi^2$/NDF: 243332.0/18

Left In: 1535.523+/-0.262 $\chi^2$/NDF:30920.9/20

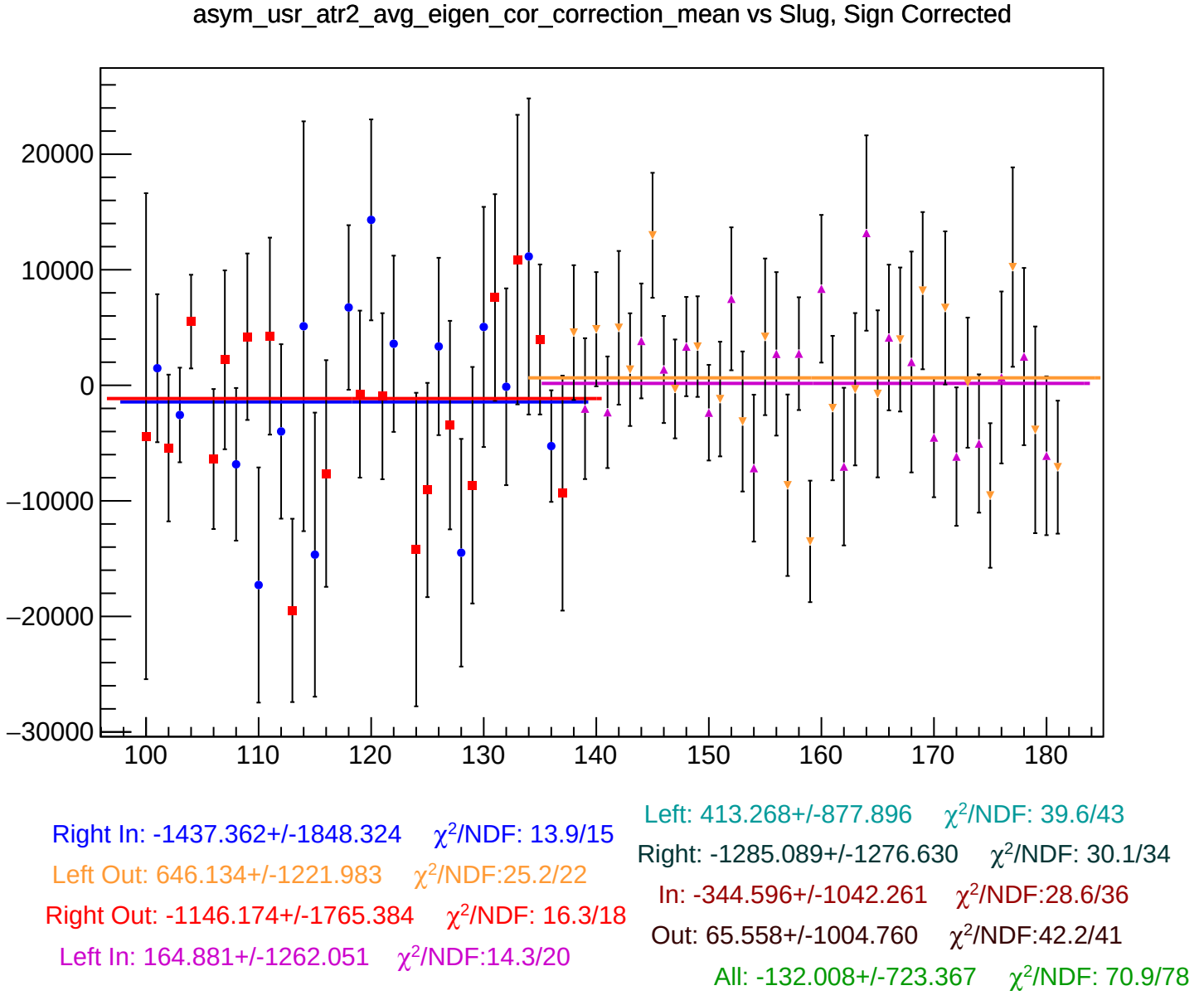
Left: 1537.880+/-0.182 $\chi^2$/NDF: 77603.1/43

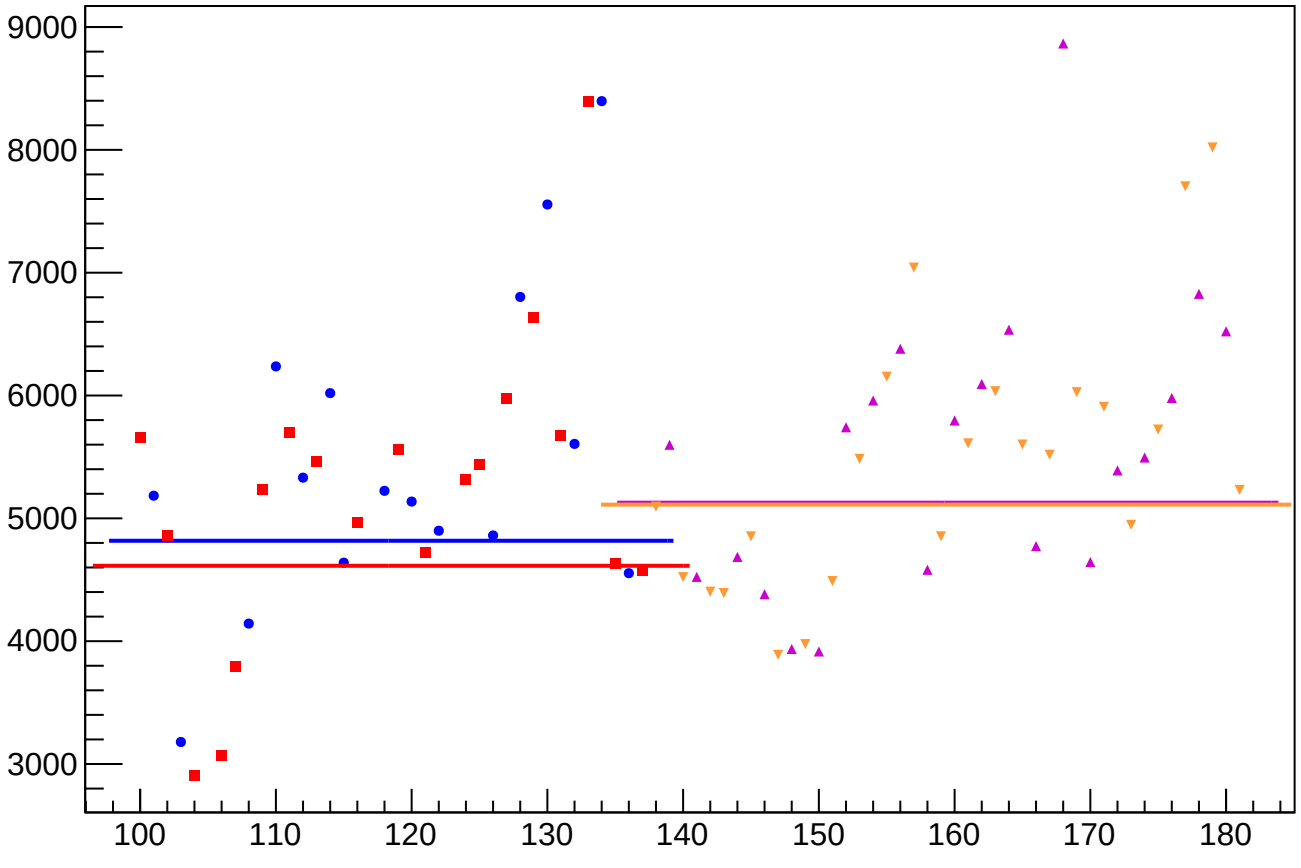
Right: 1588.056+/-0.297 $\chi^2$/NDF: 562517.7/34

In: 1553.466+/-0.223 $\chi^2$/NDF:365481.8/36

Out: 1549.932+/-0.217 $\chi^2$/NDF:295281.6/41

All: 1551.651+/-0.155 $\chi^2$/NDF: 660892.7/78


asym_usr_atr2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: -1437.362+/-1848.324 χ²/NDF: 13.9/15
Left Out: 646.134+/-1221.983 χ²/NDF:25.2/22
Right Out: -1146.174+/-1765.384 χ²/NDF: 16.3/18
Left In: 164.881+/-1262.051 χ²/NDF:14.3/20
Left: 413.268+/-877.896 χ²/NDF: 39.6/43
Right: -1285.089+/-1276.630 χ²/NDF: 30.1/34
In: -344.596+/-1042.261 χ²/NDF:28.6/36
Out: 65.558+/-1004.760 χ²/NDF:42.2/41
All: -132.008+/-723.367 χ²/NDF: 70.9/78




Right In: 4817.480+/-1.307 $\chi^2$/NDF: 795233.3/15

Left Out: 5111.712+/-0.864 $\chi^2$/NDF:1158986.6/22

Right Out: 4613.851+/-1.248 $\chi^2$/NDF: 977958.2/18

Left In: 5127.583+/-0.892 $\chi^2$/NDF:1243393.6/20

Left: 5119.391+/-0.621 $\chi^2$/NDF: 2402543.5/43

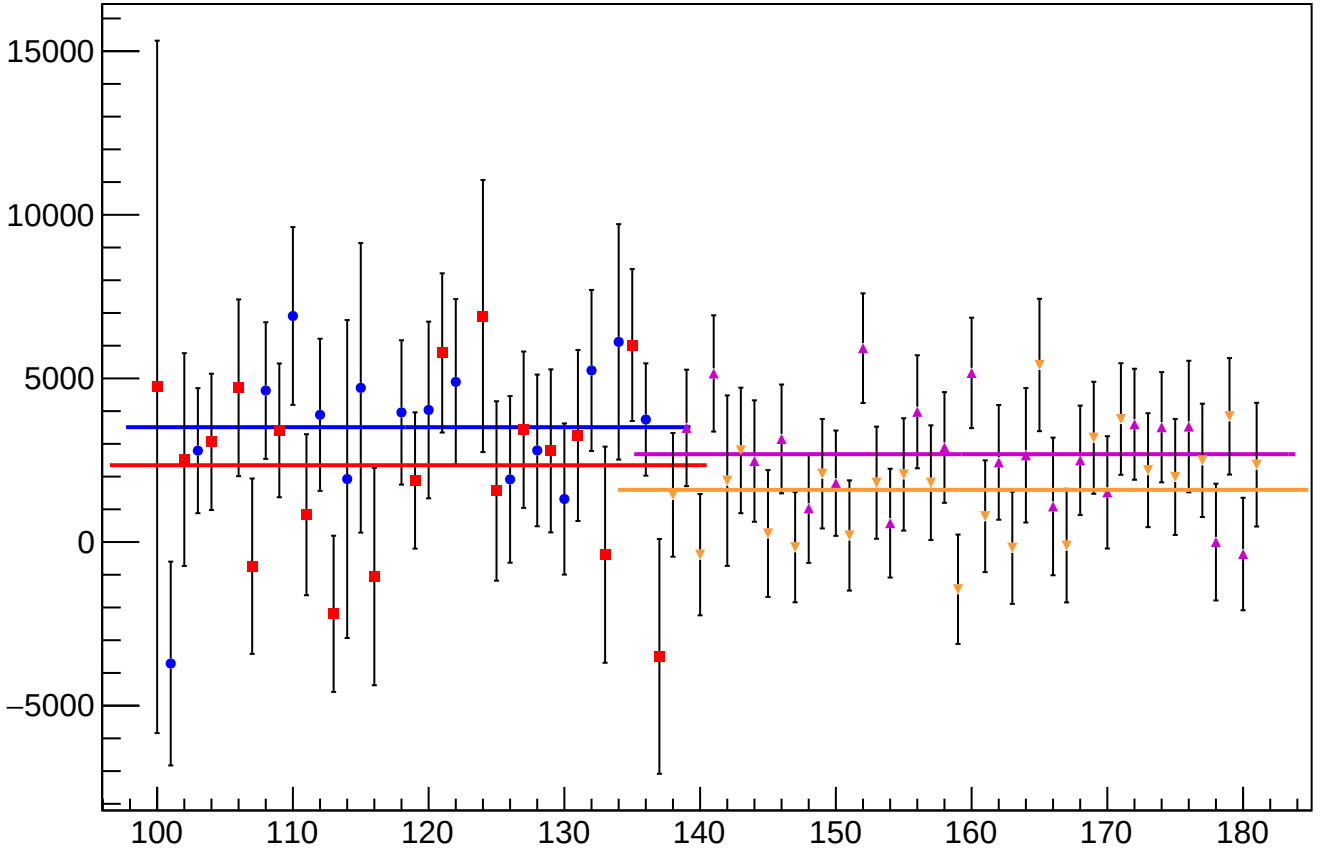
Right: 4710.994+/-0.903 $\chi^2$/NDF: 1785885.7/34

In: 5028.977+/-0.737 $\chi^2$/NDF:2077022.8/36

Out: 4950.441+/-0.710 $\chi^2$/NDF:2244482.8/41

All: 4988.271+/-0.511 $\chi^2$/NDF: 4327391.5/78

# dit_asym_usr_atr2_avg_mean vs Slug, Sign Corrected




Right In: 3509.507+/-616.724 $\chi^2$/NDF: 10.4/15

Left Out: 1595.507+/-372.585 $\chi^2$/NDF:17.8/22

Right Out: 2346.859+/-607.502 $\chi^2$/NDF: 17.1/18

Left In: 2685.052+/-381.524 $\chi^2$/NDF:18.8/20

Left: 2127.366+/-266.562 $\chi^2$/NDF: 40.8/43

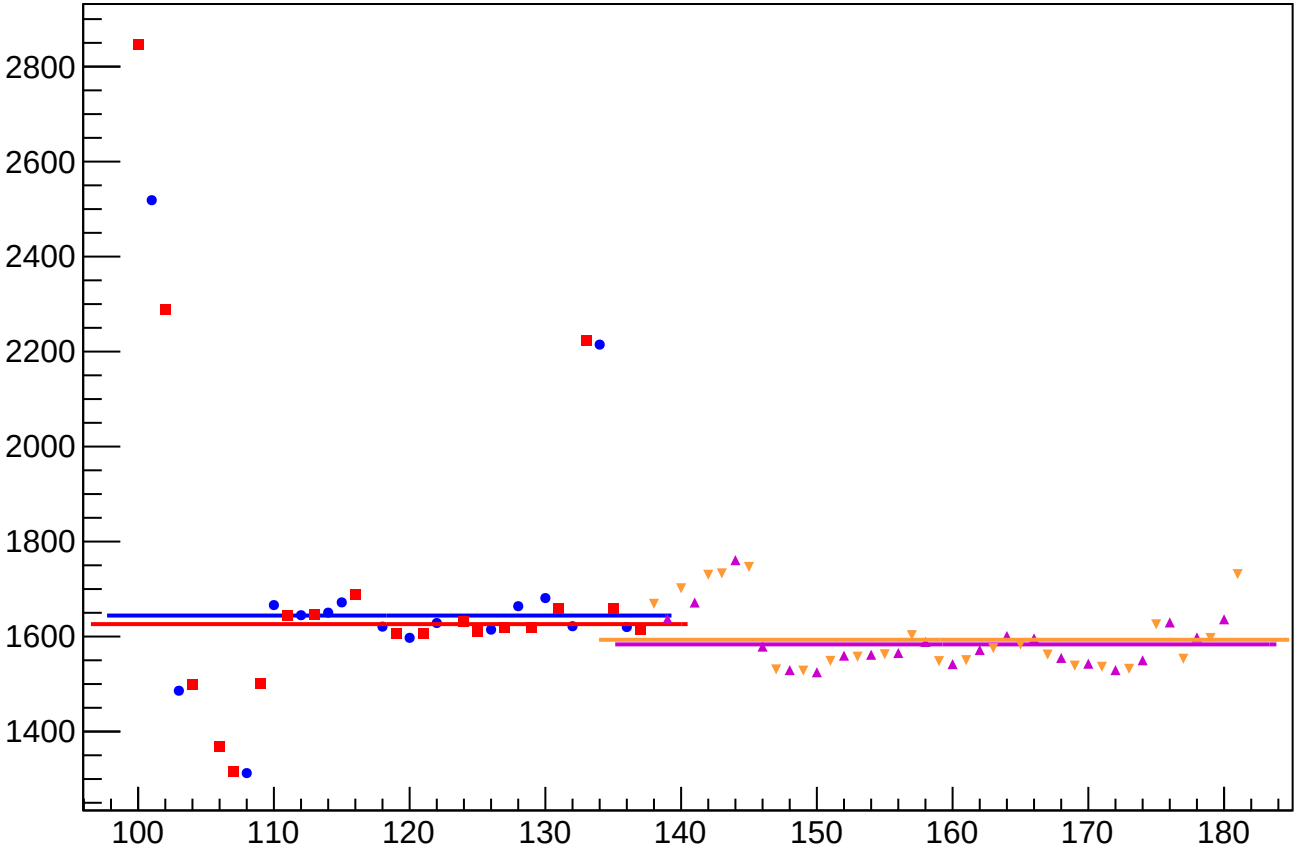
Right: 2919.425+/-432.793 $\chi^2$/NDF: 29.3/34

In: 2913.244+/-324.457 $\chi^2$/NDF:30.5/36

Out: 1800.875+/-317.609 $\chi^2$/NDF:36.0/41

All: 2345.197+/-226.966 $\chi^2$/NDF: 72.5/78

# dit_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1644.198+/-0.436 $\chi^2$/NDF: 274817.9/15

Left Out: 1593.224+/-0.263 $\chi^2$/NDF:70196.6/22

Right Out: 1626.174+/-0.429 $\chi^2$/NDF: 237639.1/18

Left In: 1583.512+/-0.270 $\chi^2$/NDF:39911.5/20

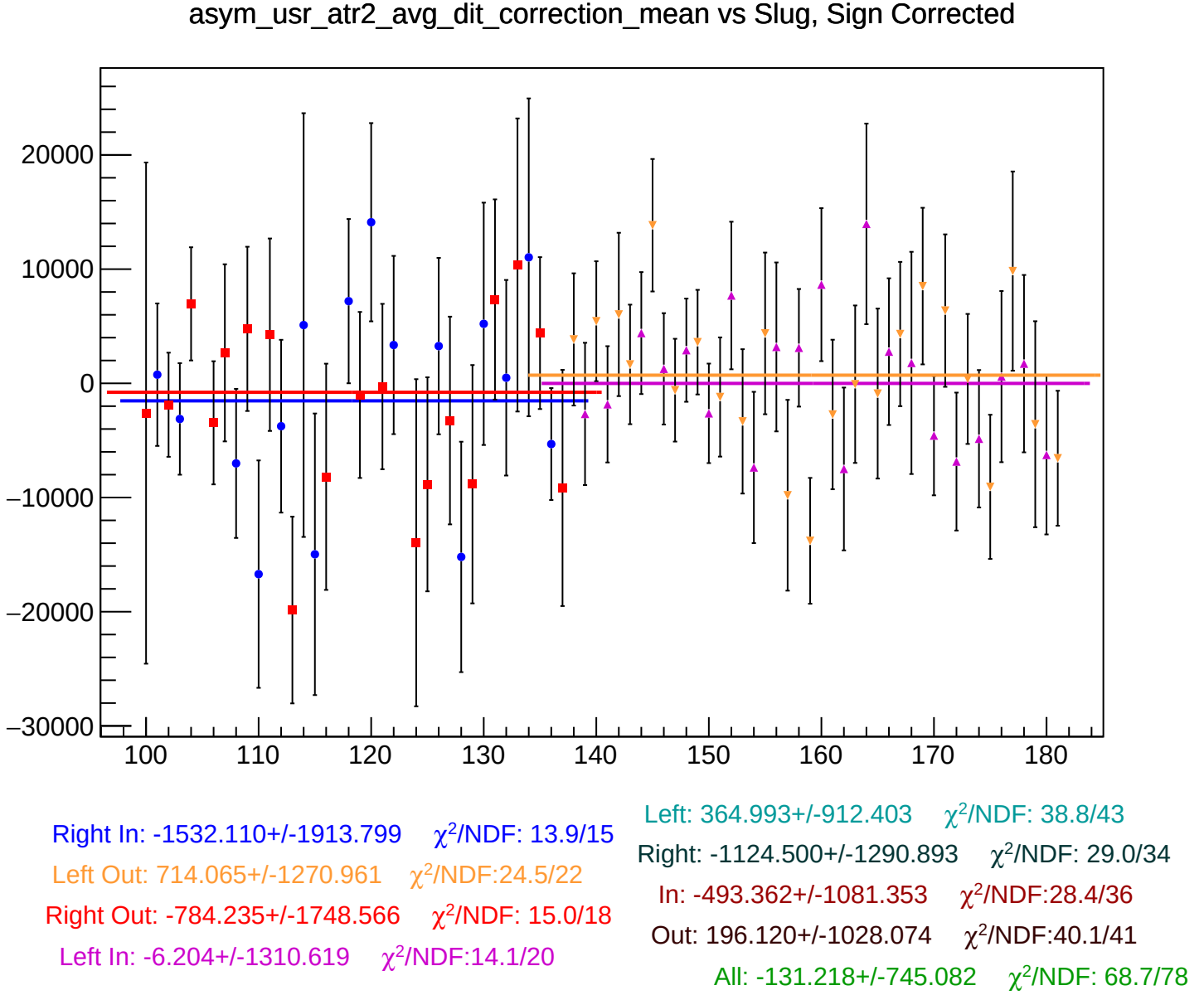
Left: 1588.483+/-0.188 $\chi^2$/NDF: 110771.4/43

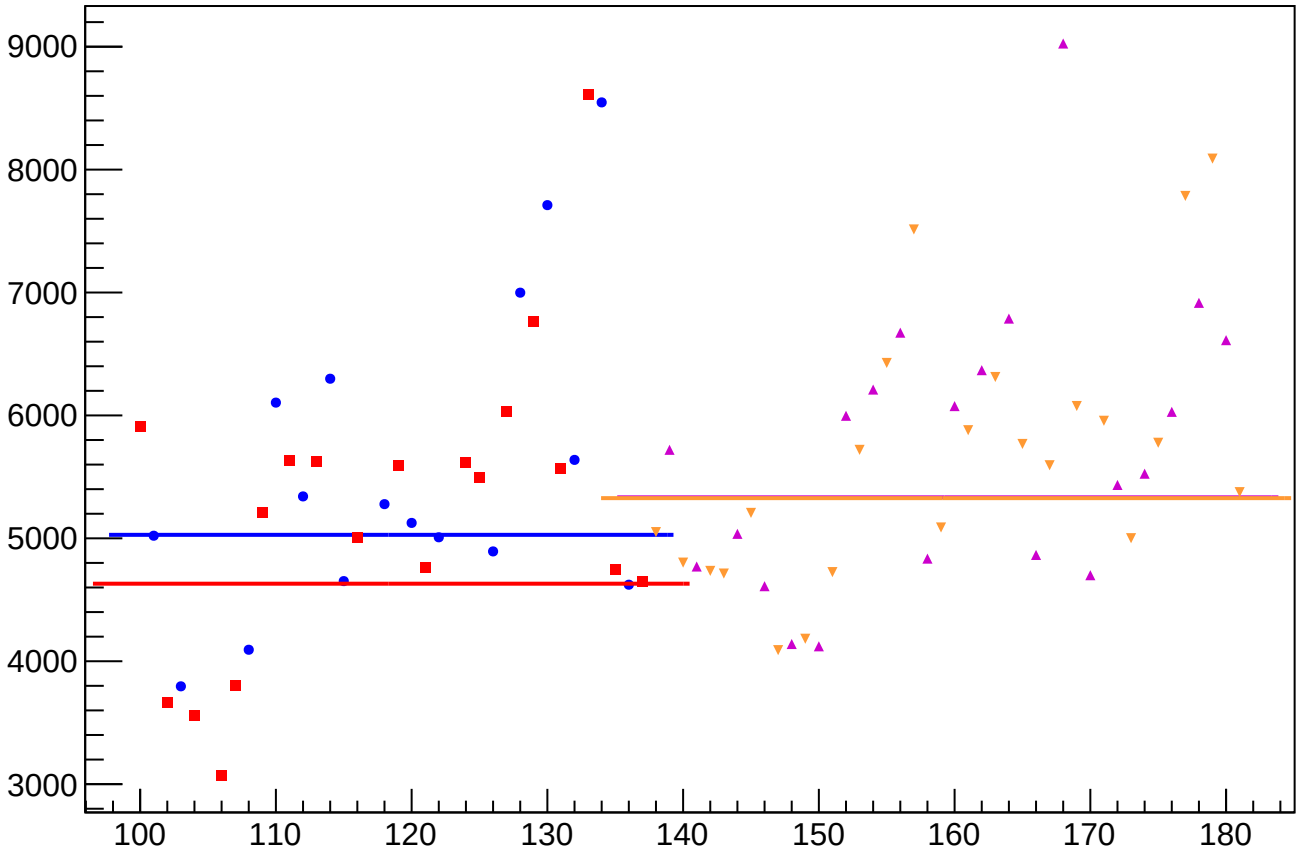
Right: 1635.043+/-0.306 $\chi^2$/NDF: 513324.8/34

In: 1600.309+/-0.229 $\chi^2$/NDF:328735.0/36

Out: 1602.242+/-0.225 $\chi^2$/NDF:312116.8/41

All: 1601.296+/-0.160 $\chi^2$/NDF: 640888.1/78


asym_usr_atr2_avg_dit_correction_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: -1532.110+/-1913.799 χ²/NDF: 13.9/15
Left Out: 714.065+/-1270.961 χ²/NDF:24.5/22
Right Out: -784.235+/-1748.566 χ²/NDF: 15.0/18
Left In: -6.204+/-1310.619 χ²/NDF:14.1/20
Left: 364.993+/-912.403 χ²/NDF: 38.8/43
Right: -1124.500+/-1290.893 χ²/NDF: 29.0/34
In: -493.362+/-1081.353 χ²/NDF:28.4/36
Out: 196.120+/-1028.074 χ²/NDF:40.1/41
All: -131.218+/-745.082 χ²/NDF: 68.7/78




Right In: 5028.449+/-1.353 $\chi^2$/NDF: 565469.4/15

Left Out: 5327.026+/-0.899 $\chi^2$/NDF:1036411.8/22

Right Out: 4630.901+/-1.236 $\chi^2$/NDF: 863515.0/18

Left In: 5333.671+/-0.927 $\chi^2$/NDF:1136972.7/20

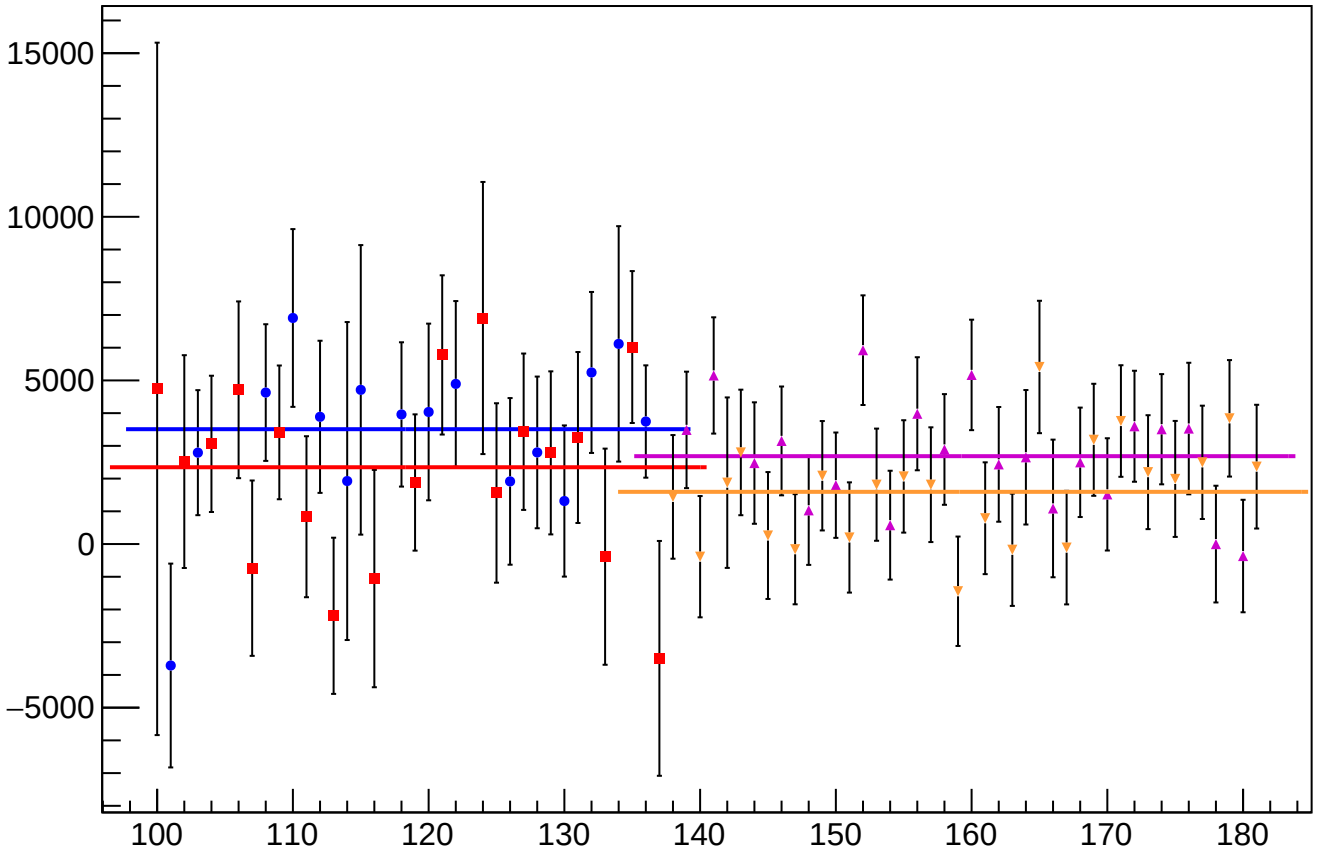
Left: 5330.246+/-0.645 $\chi^2$/NDF: 2173410.9/43

Right: 4811.776+/-0.913 $\chi^2$/NDF: 1476020.7/34

In: 5236.226+/-0.765 $\chi^2$/NDF:1737071.8/36

Out: 5086.383+/-0.727 $\chi^2$/NDF:2107334.4/41

All: 5157.523+/-0.527 $\chi^2$/NDF: 3864577.1/78




Right In: 3509.509+/-616.724 $\chi^2$/NDF: 10.4/15

Left Out: 1595.500+/-372.585 $\chi^2$/NDF:17.8/22

Right Out: 2346.865+/-607.502 $\chi^2$/NDF: 17.1/18

Left In: 2685.053+/-381.524 $\chi^2$/NDF:18.8/20

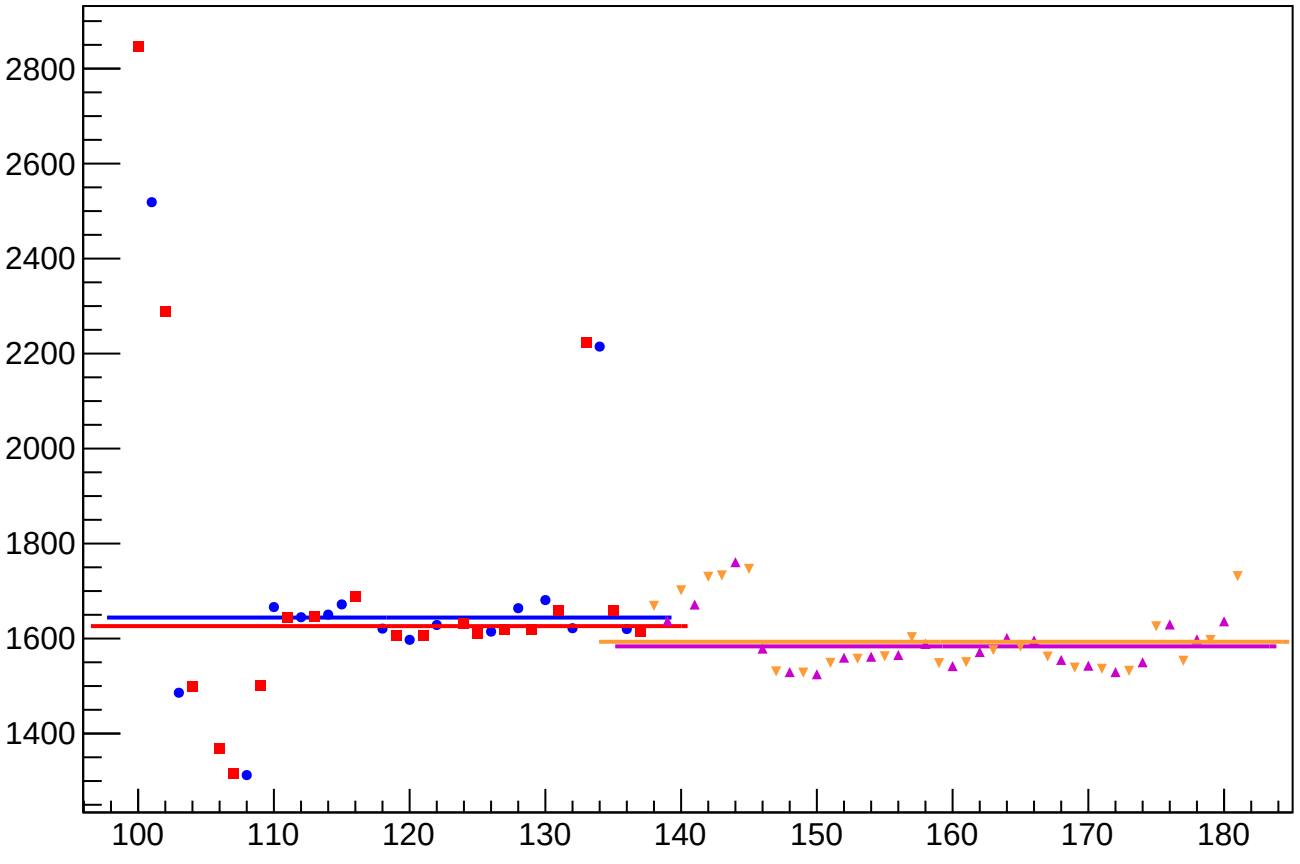
Left: 2127.363+/-266.562 $\chi^2$/NDF: 40.8/43

Right: 2919.429+/-432.792 $\chi^2$/NDF: 29.3/34

In: 2913.245+/-324.457 $\chi^2$/NDF:30.5/36

Out: 1800.873+/-317.609 $\chi^2$/NDF:36.0/41

All: 2345.196+/-226.966 $\chi^2$/NDF: 72.5/78




Right In: 1644.198+/-0.436 $\chi^2$/NDF: 274818.1/15

Left Out: 1593.225+/-0.263 $\chi^2$/NDF:70196.5/22

Right Out: 1626.174+/-0.429 $\chi^2$/NDF: 237638.8/18

Left In: 1583.513+/-0.270 $\chi^2$/NDF:39911.3/20

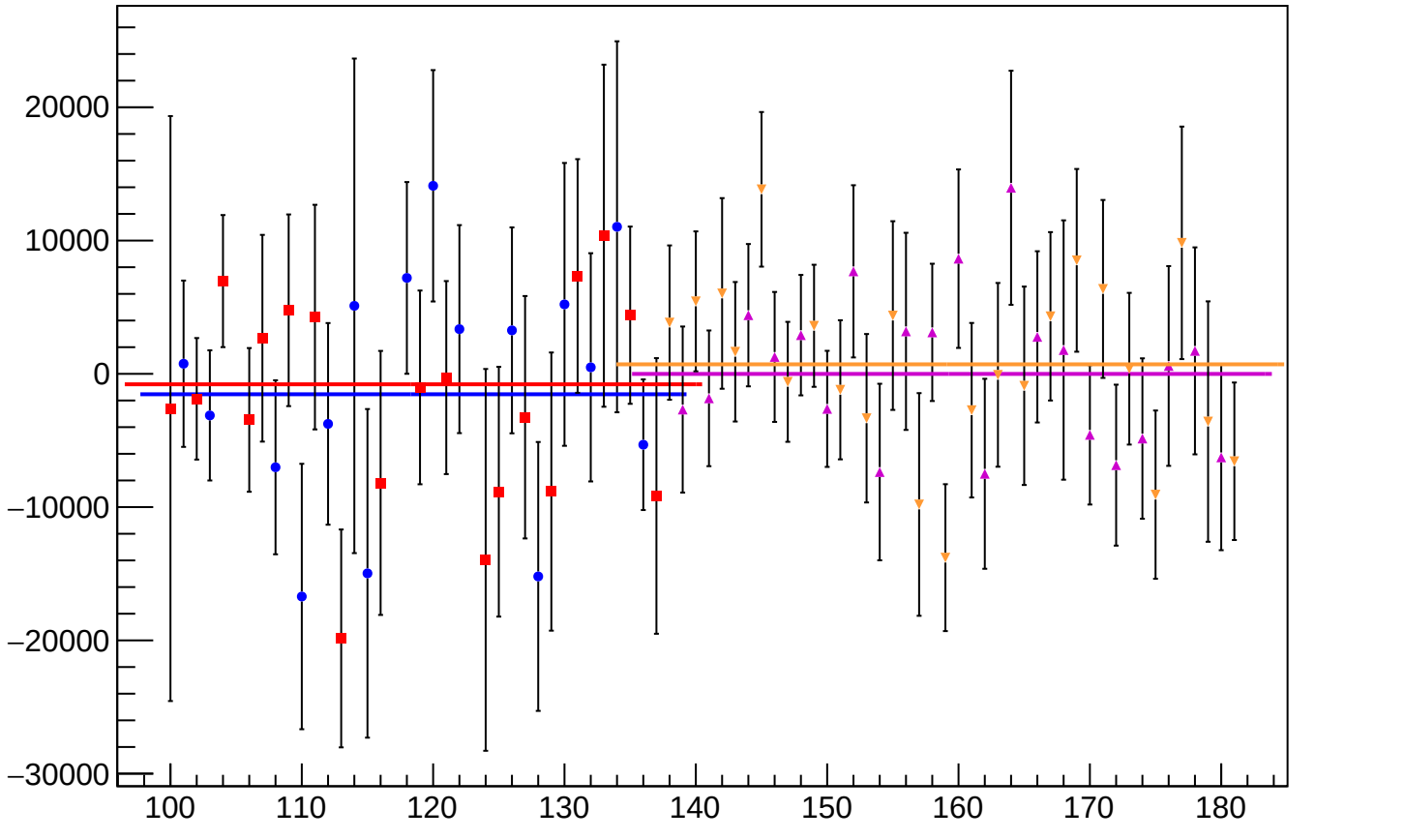
Left: 1588.484+/-0.188 $\chi^2$/NDF: 110771.2/43

Right: 1635.042+/-0.306 $\chi^2$/NDF: 513324.5/34

In: 1600.309+/-0.229 $\chi^2$/NDF:328734.3/36

Out: 1602.242+/-0.225 $\chi^2$/NDF:312116.0/41

All: 1601.297+/-0.160 $\chi^2$/NDF: 640886.6/78




Right In: -1532.095+/-1913.796 $\chi^2$/NDF: 13.9/15

Left Out: 714.062+/-1270.964 $\chi^2$/NDF:24.5/22

Right Out: -784.236+/-1748.563 $\chi^2$/NDF: 15.0/18

Left In: -6.205+/-1310.621 $\chi^2$/NDF:14.1/20

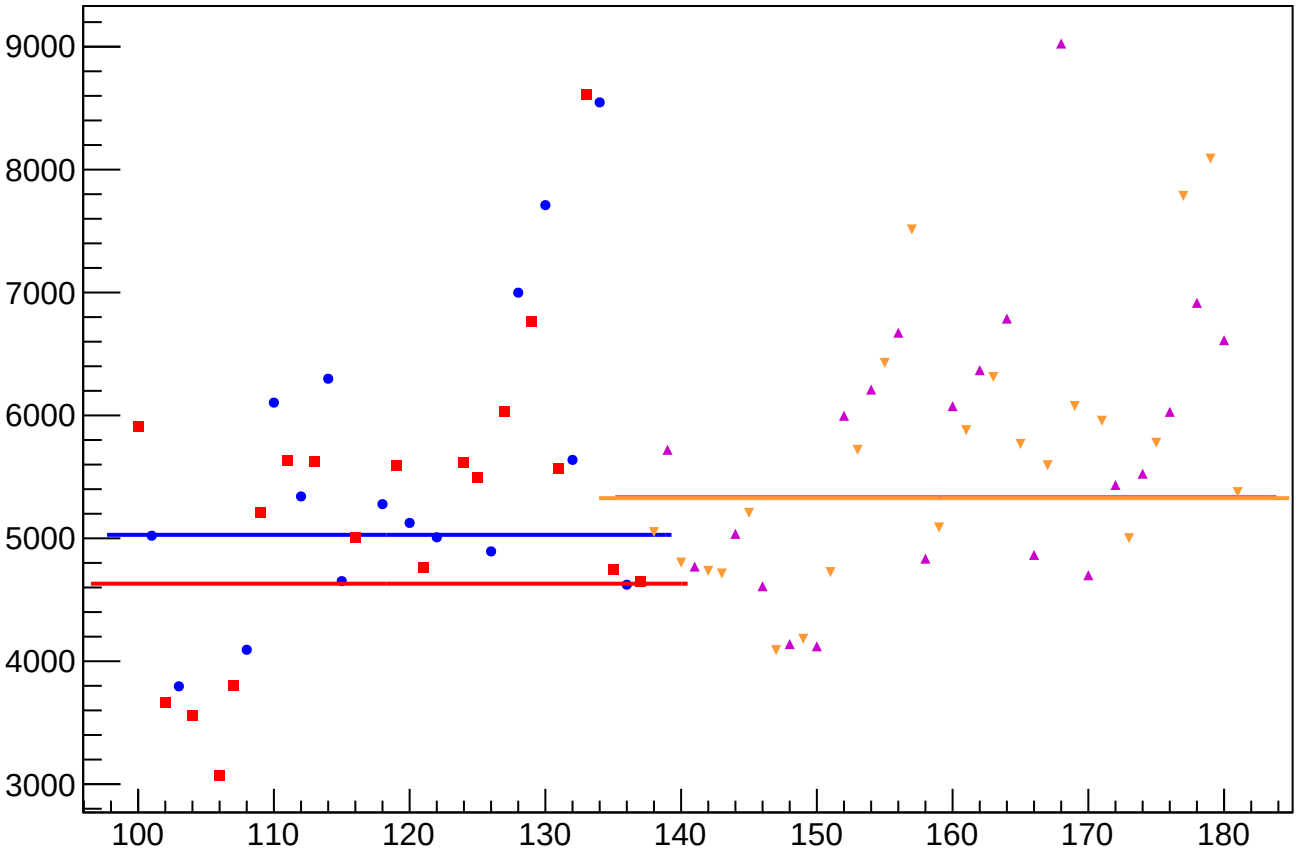
Left: 364.991+/-912.405 $\chi^2$/NDF: 38.8/43

Right: -1124.493+/-1290.891 $\chi^2$/NDF: 29.0/34

In: -493.360+/-1081.354 $\chi^2$/NDF:28.4/36

Out: 196.115+/-1028.075 $\chi^2$/NDF:40.1/41

All: -131.219+/-745.082 $\chi^2$/NDF: 68.7/78




Right In: 5028.443+/-1.353 $\chi^2$/NDF: 565463.1/15

Left Out: 5327.035+/-0.899 $\chi^2$/NDF:1036414.0/22

Right Out: 4630.895+/-1.236 $\chi^2$/NDF: 863509.0/18

Left In: 5333.680+/-0.927 $\chi^2$/NDF:1136976.4/20

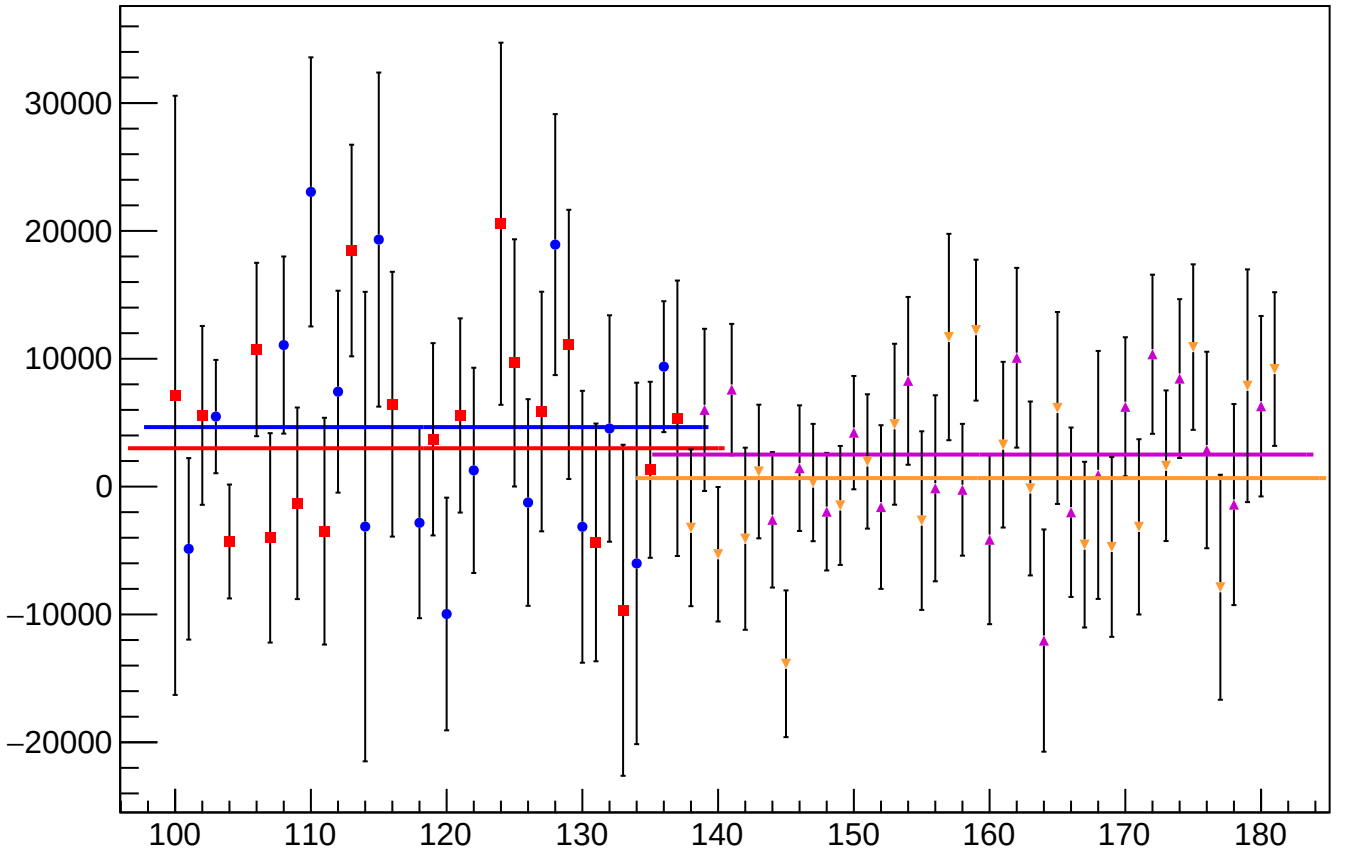
Left: 5330.255+/-0.645 $\chi^2$/NDF: 2173416.9/43

Right: 4811.769+/-0.913 $\chi^2$/NDF: 1476008.6/34

In: 5236.230+/-0.765 $\chi^2$/NDF:1737072.8/36

Out: 5086.386+/-0.727 $\chi^2$/NDF:2107340.2/41

All: 5157.526+/-0.527 $\chi^2$/NDF: 3864584.1/78




Right In: 4653.137+/-1958.496 $\chi^2$/NDF: 15.5/15

Left Out: 664.926+/-1283.411 $\chi^2$/NDF:24.1/22

Right Out: 3000.980+/-1882.821 $\chi^2$/NDF: 13.9/18

Left In: 2505.998+/-1323.875 $\chi^2$/NDF:13.9/20

Left: 1556.897+/-921.482 $\chi^2$/NDF: 39.1/43

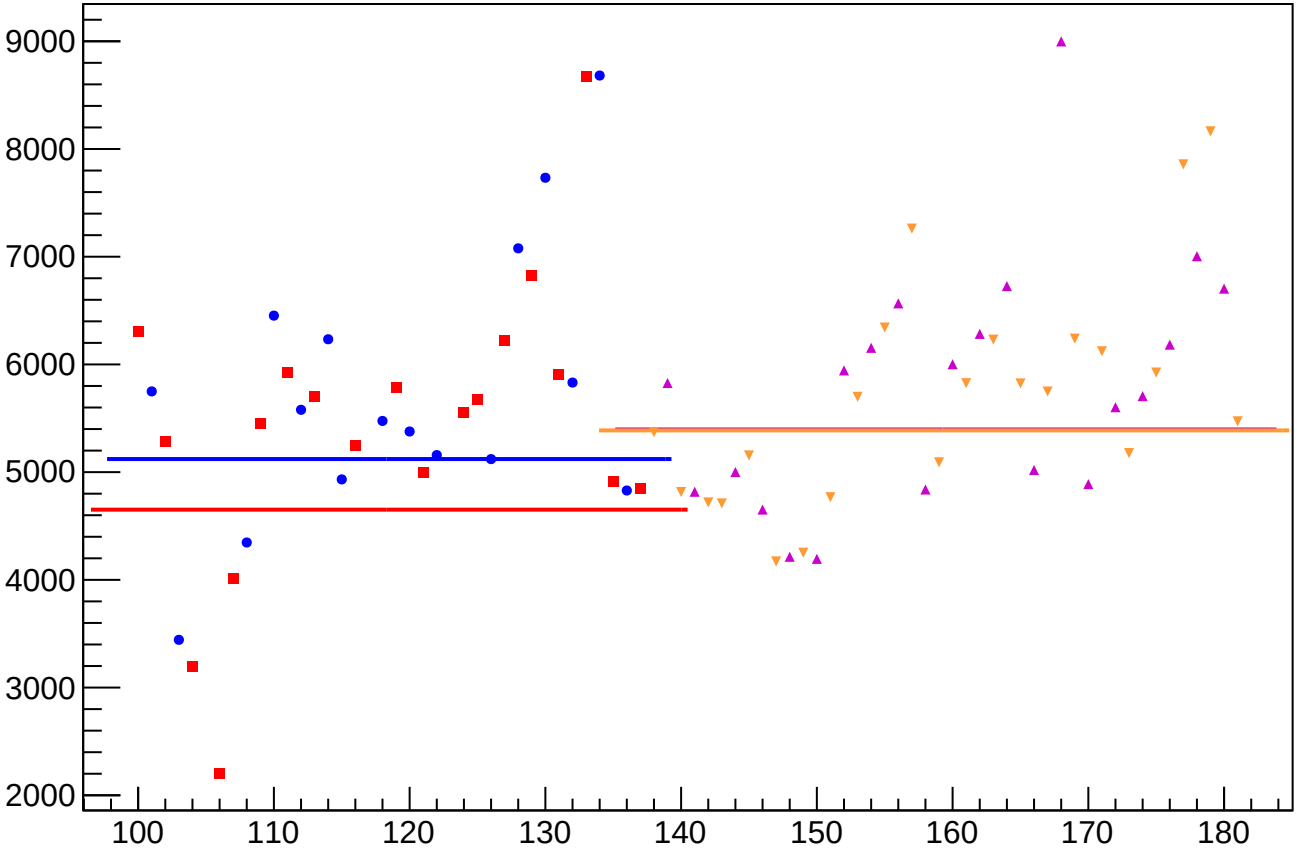
Right: 3794.523+/-1357.320 $\chi^2$/NDF: 29.8/34

In: 3179.394+/-1096.801 $\chi^2$/NDF:30.3/36

Out: 1406.009+/-1060.476 $\chi^2$/NDF:39.1/41

All: 2262.849+/-762.388 $\chi^2$/NDF: 70.7/78

# asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 5121.644+/-1.385 $\chi^2$/NDF: 720370.1/15

Left Out: 5387.464+/-0.908 $\chi^2$/NDF:987018.3/22

Right Out: 4651.727+/-1.280 $\chi^2$/NDF: 1344868.0/18

Left In: 5396.248+/-0.936 $\chi^2$/NDF:1062745.9/20

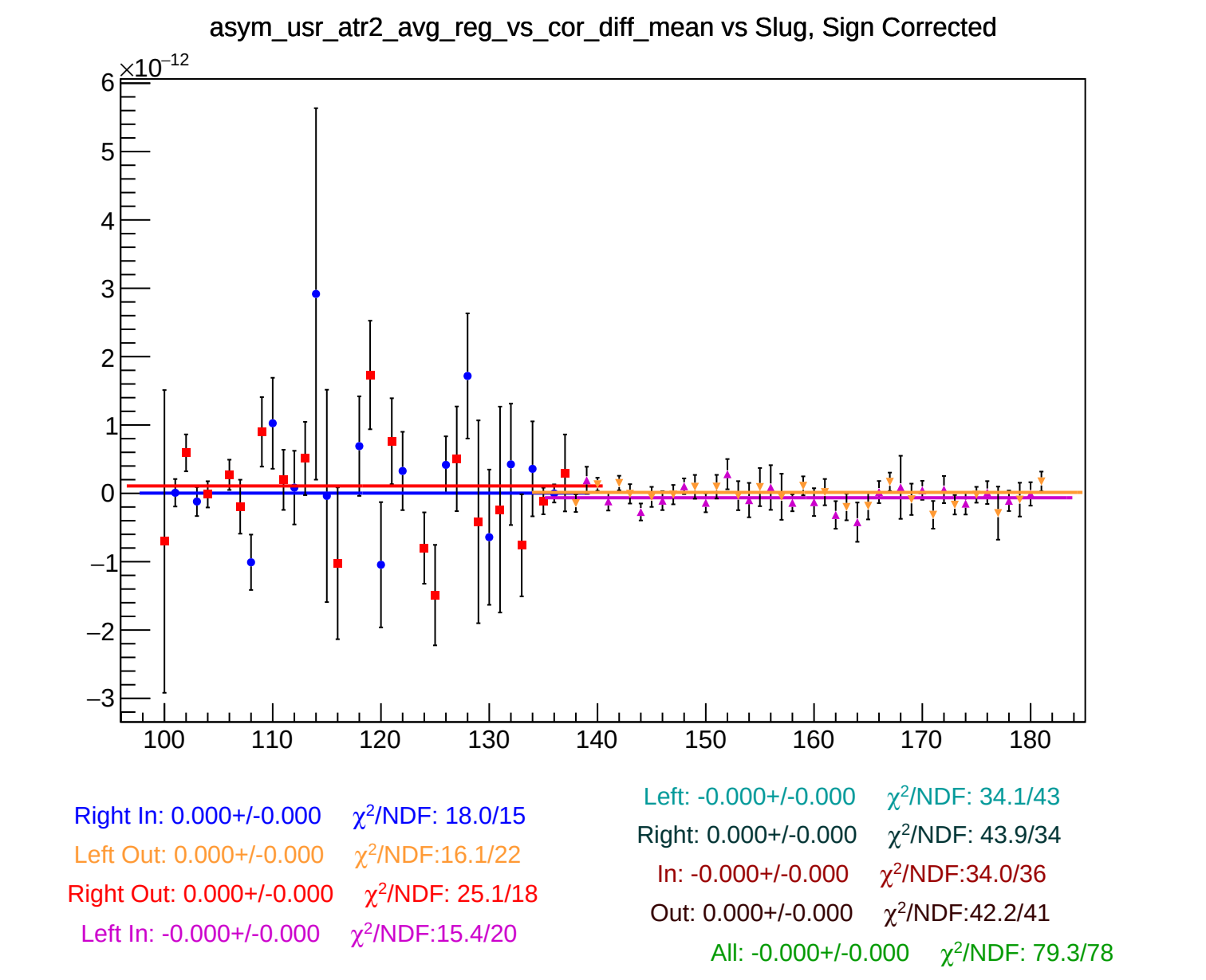
Left: 5391.720+/-0.652 $\chi^2$/NDF: 2049809.6/43

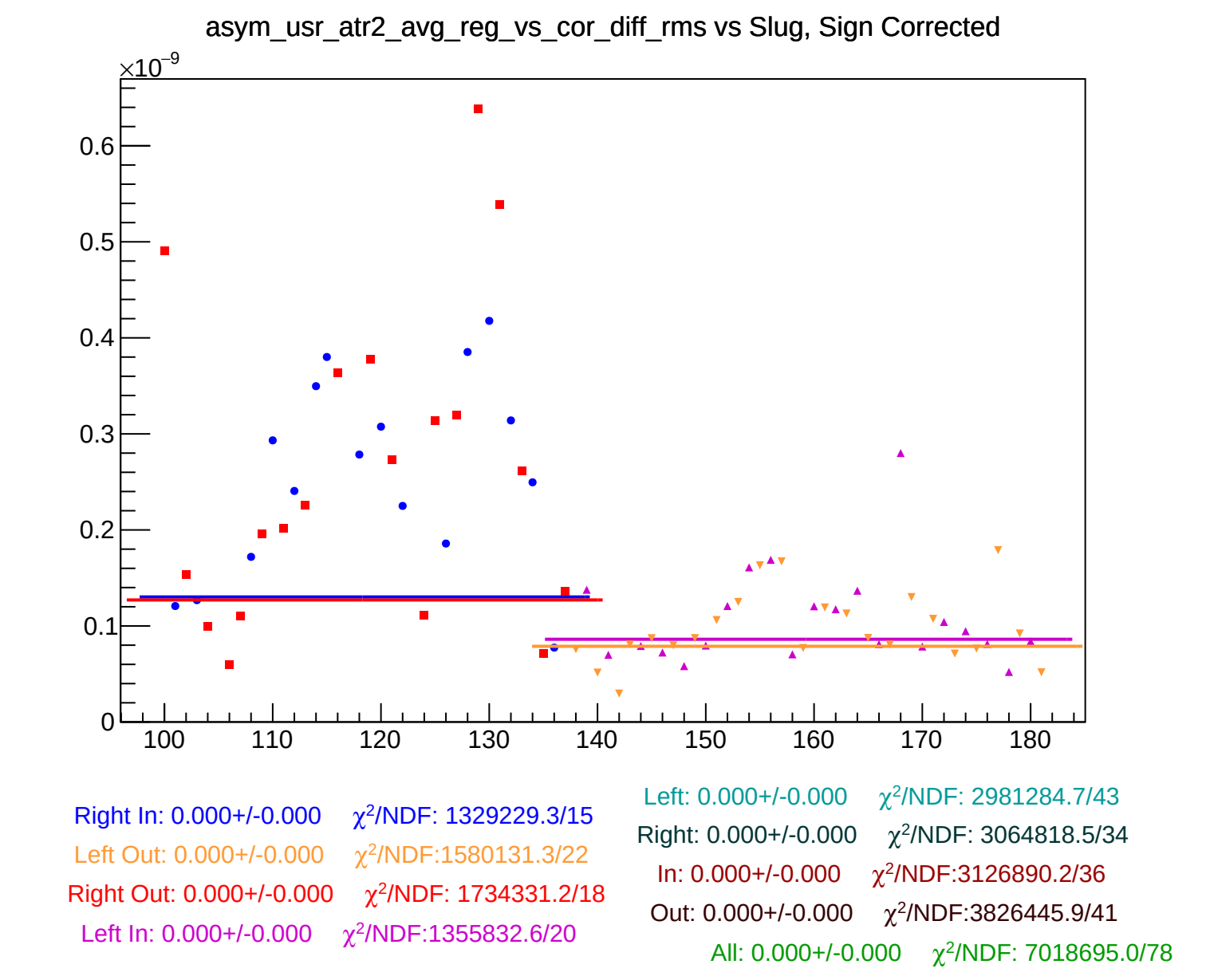
Right: 4868.287+/-0.940 $\chi^2$/NDF: 2127316.1/34

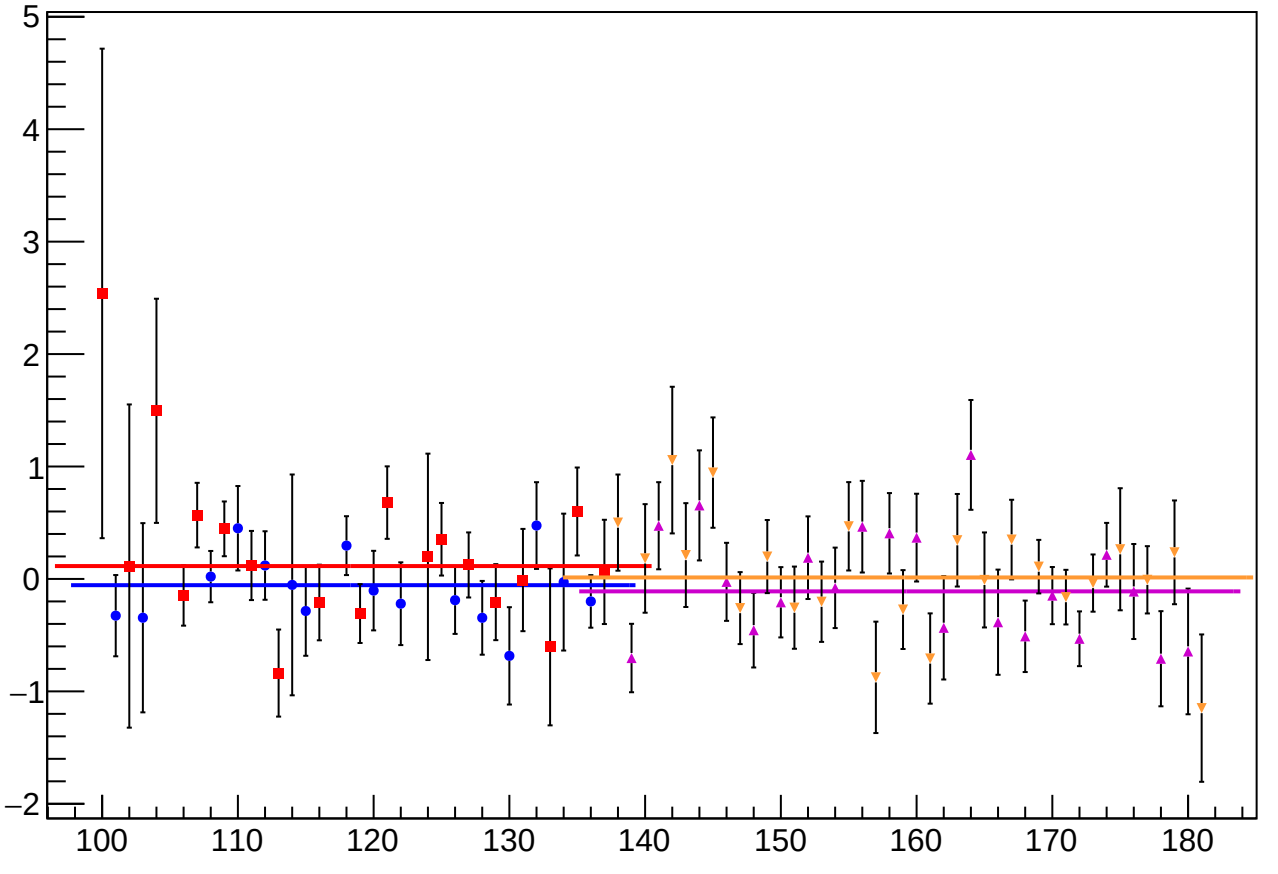
In: 5310.125+/-0.776 $\chi^2$/NDF:1810103.3/36

Out: 5141.438+/-0.740 $\chi^2$/NDF:2551673.7/41

All: 5221.870+/-0.536 $\chi^2$/NDF: 4386528.2/78


asym_usr_atr2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
5
4
3
2
1
0
−1
−2
−3
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 18.0/15
Left Out: 0.000+/-0.000 χ²/NDF:16.1/22
Right Out: 0.000+/-0.000 χ²/NDF: 25.1/18
Left In: -0.000+/-0.000 χ²/NDF:15.4/20
Left: -0.000+/-0.000 χ²/NDF: 34.1/43
Right: 0.000+/-0.000 χ²/NDF: 43.9/34
In: -0.000+/-0.000 χ²/NDF:34.0/36
Out: 0.000+/-0.000 χ²/NDF:42.2/41
All: -0.000+/-0.000 χ²/NDF: 79.3/78


asym_usr_atr2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1329229.3/15
Left Out: 0.000+/-0.000 χ²/NDF:1580131.3/22
Right Out: 0.000+/-0.000 χ²/NDF: 1734331.2/18
Left In: 0.000+/-0.000 χ²/NDF:1355832.6/20
Left: 0.000+/-0.000 χ²/NDF: 2981284.7/43
Right: 0.000+/-0.000 χ²/NDF: 3064818.5/34
In: 0.000+/-0.000 χ²/NDF:3126890.2/36
Out: 0.000+/-0.000 χ²/NDF:3826445.9/41
All: 0.000+/-0.000 χ²/NDF: 7018695.0/78




Right In: -0.055+/-0.085 $\chi^2$/NDF: 10.7/15

Left Out: 0.013+/-0.076 $\chi^2$/NDF:24.1/22

Right Out: 0.114+/-0.083 $\chi^2$/NDF: 25.2/18

Left In: -0.111+/-0.077 $\chi^2$/NDF:31.9/20

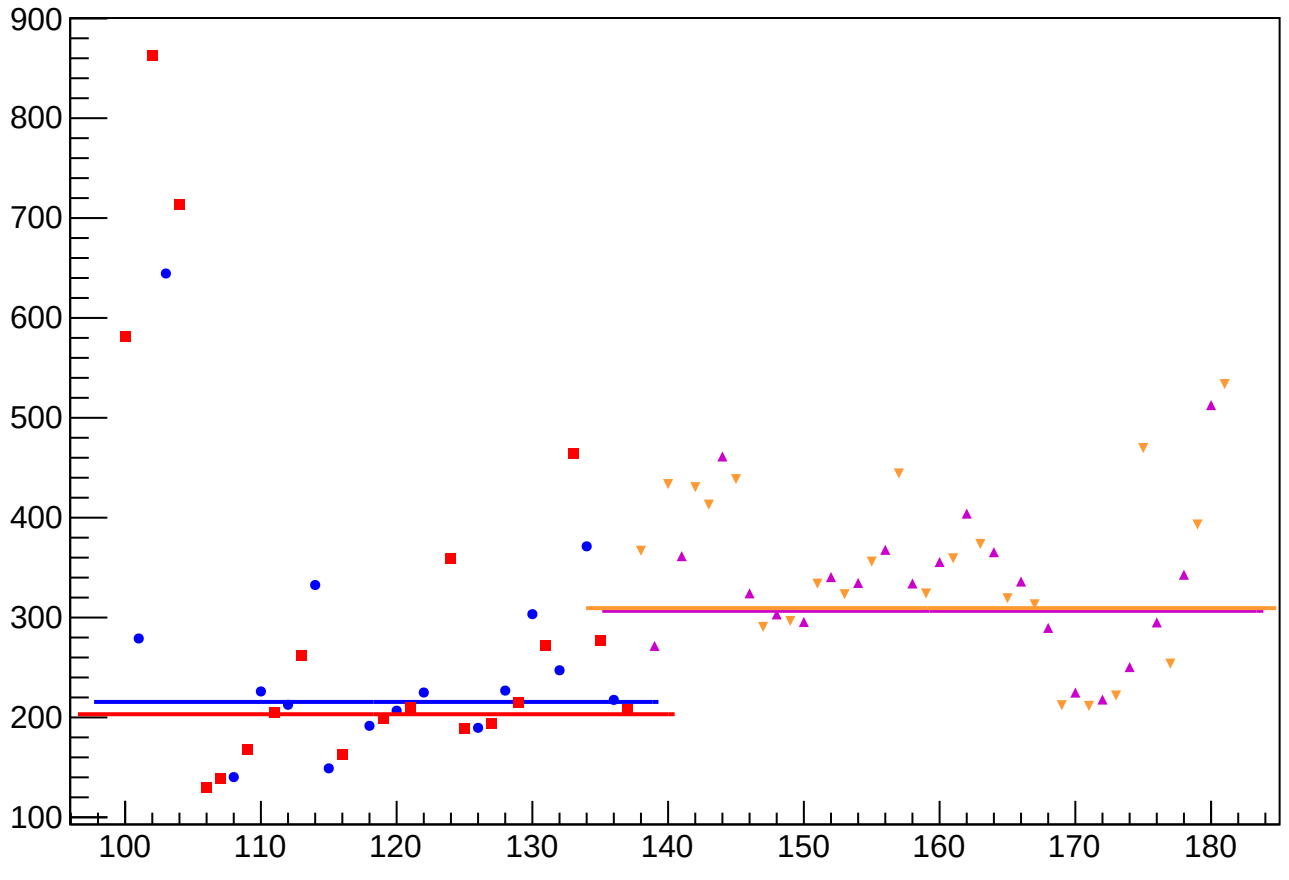
Left: -0.048+/-0.054 $\chi^2$/NDF: 57.2/43

Right: 0.032+/-0.060 $\chi^2$/NDF: 37.9/34

In: -0.086+/-0.057 $\chi^2$/NDF:42.7/36

Out: 0.060+/-0.056 $\chi^2$/NDF:50.1/41

All: -0.012+/-0.040 $\chi^2$/NDF: 96.1/78




Right In: 215.519+/-0.060 $\chi^2$/NDF: 1148727.3/15

Left Out: 309.421+/-0.054 $\chi^2$/NDF:2197612.7/22

Right Out: 203.207+/-0.059 $\chi^2$/NDF: 1835552.6/18

Left In: 306.761+/-0.055 $\chi^2$/NDF:1363143.1/20

Left: 308.107+/-0.038 $\chi^2$/NDF: 3561954.5/43

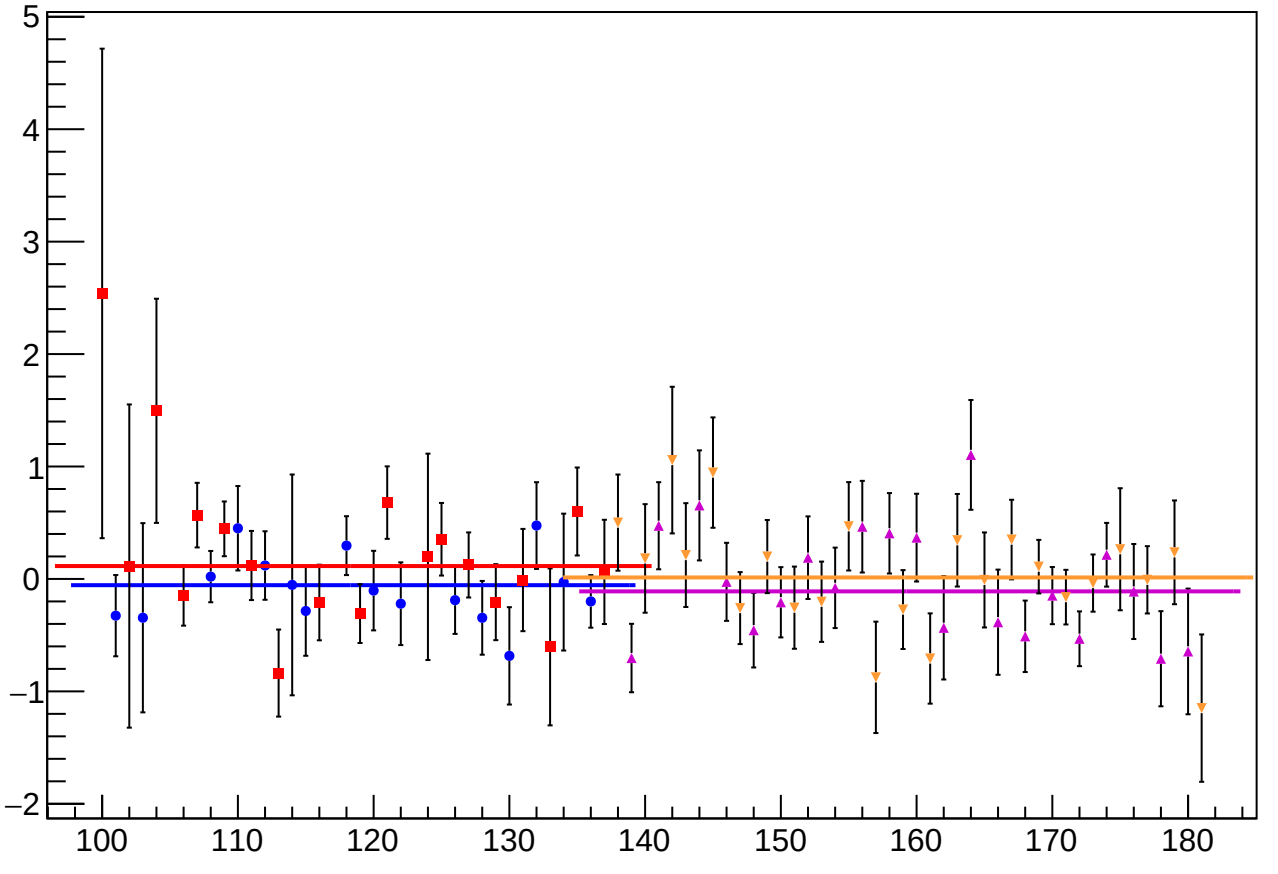
Right: 209.199+/-0.042 $\chi^2$/NDF: 3005585.2/34

In: 265.718+/-0.041 $\chi^2$/NDF:3765877.7/36

Out: 260.864+/-0.040 $\chi^2$/NDF:5801852.5/41

All: 263.246+/-0.028 $\chi^2$/NDF: 9575034.3/78

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.055+/-0.085 $\chi^2$/NDF: 10.7/15

Left Out: 0.013+/-0.076 $\chi^2$/NDF:24.1/22

Right Out: 0.114+/-0.083 $\chi^2$/NDF: 25.2/18

Left In: -0.111+/-0.077 $\chi^2$/NDF:31.9/20

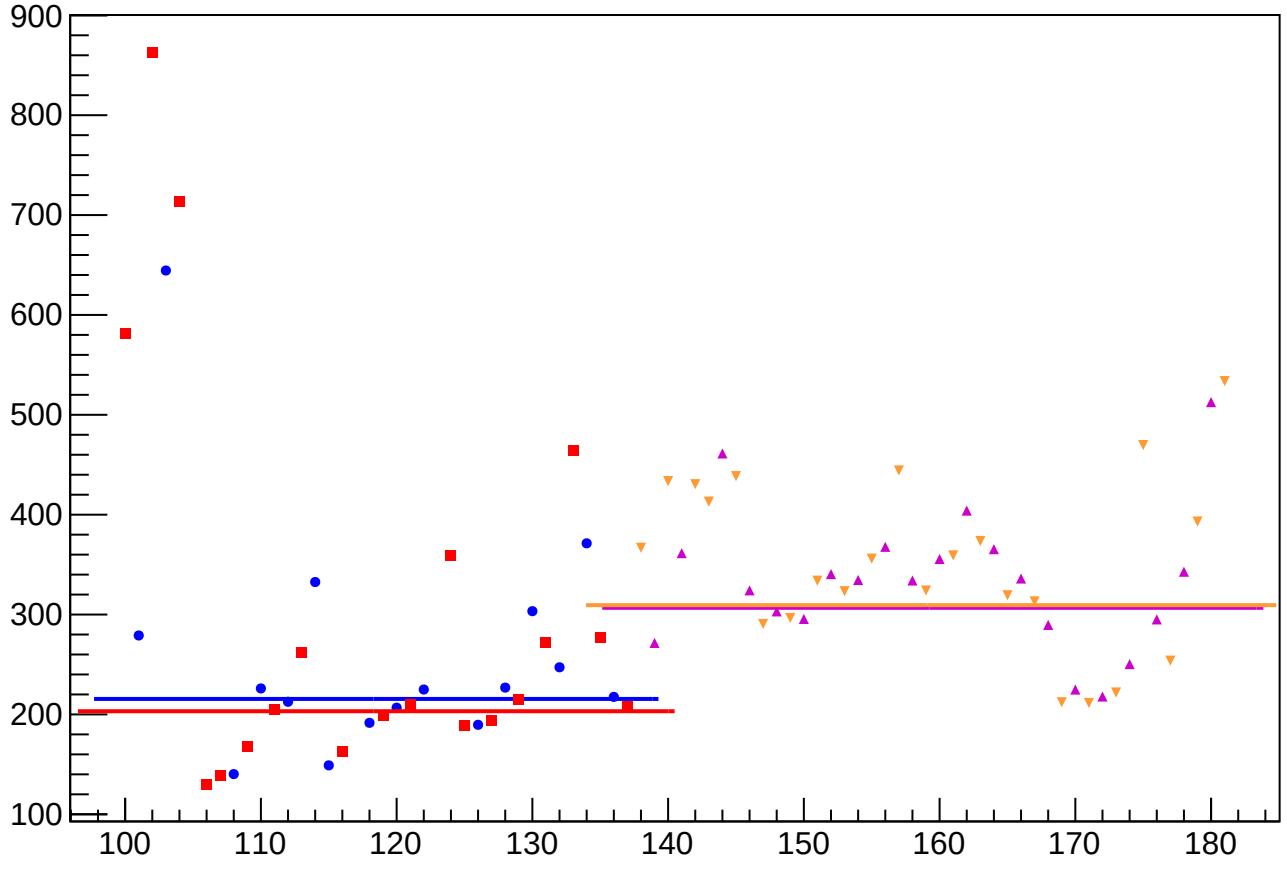
Left: -0.048+/-0.054 $\chi^2$/NDF: 57.2/43

Right: 0.032+/-0.060 $\chi^2$/NDF: 37.9/34

In: -0.086+/-0.057 $\chi^2$/NDF:42.7/36

Out: 0.060+/-0.056 $\chi^2$/NDF:50.1/41

All: -0.012+/-0.040 $\chi^2$/NDF: 96.1/78




Right In: 215.519+/-0.060 $\chi^2$/NDF: 1148727.3/15

Left Out: 309.421+/-0.054 $\chi^2$/NDF:2197612.7/22

Right Out: 203.207+/-0.059 $\chi^2$/NDF: 1835552.6/18

Left In: 306.761+/-0.055 $\chi^2$/NDF:1363143.1/20

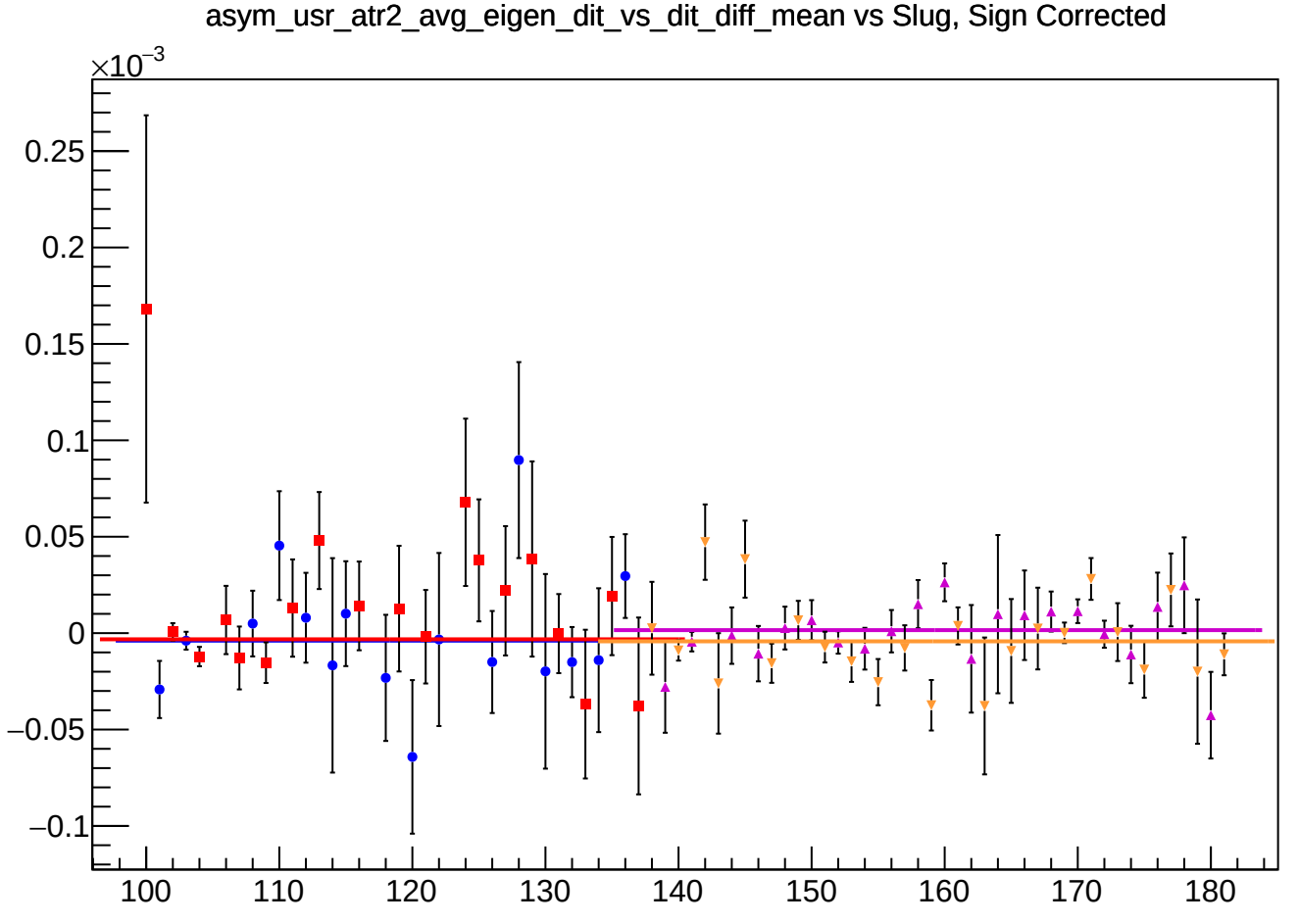
Left: 308.107+/-0.038 $\chi^2$/NDF: 3561954.5/43

Right: 209.199+/-0.042 $\chi^2$/NDF: 3005585.2/34

In: 265.718+/-0.041 $\chi^2$/NDF:3765877.7/36

Out: 260.864+/-0.040 $\chi^2$/NDF:5801852.5/41

All: 263.246+/-0.028 $\chi^2$/NDF: 9575034.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:41.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:23.4/20

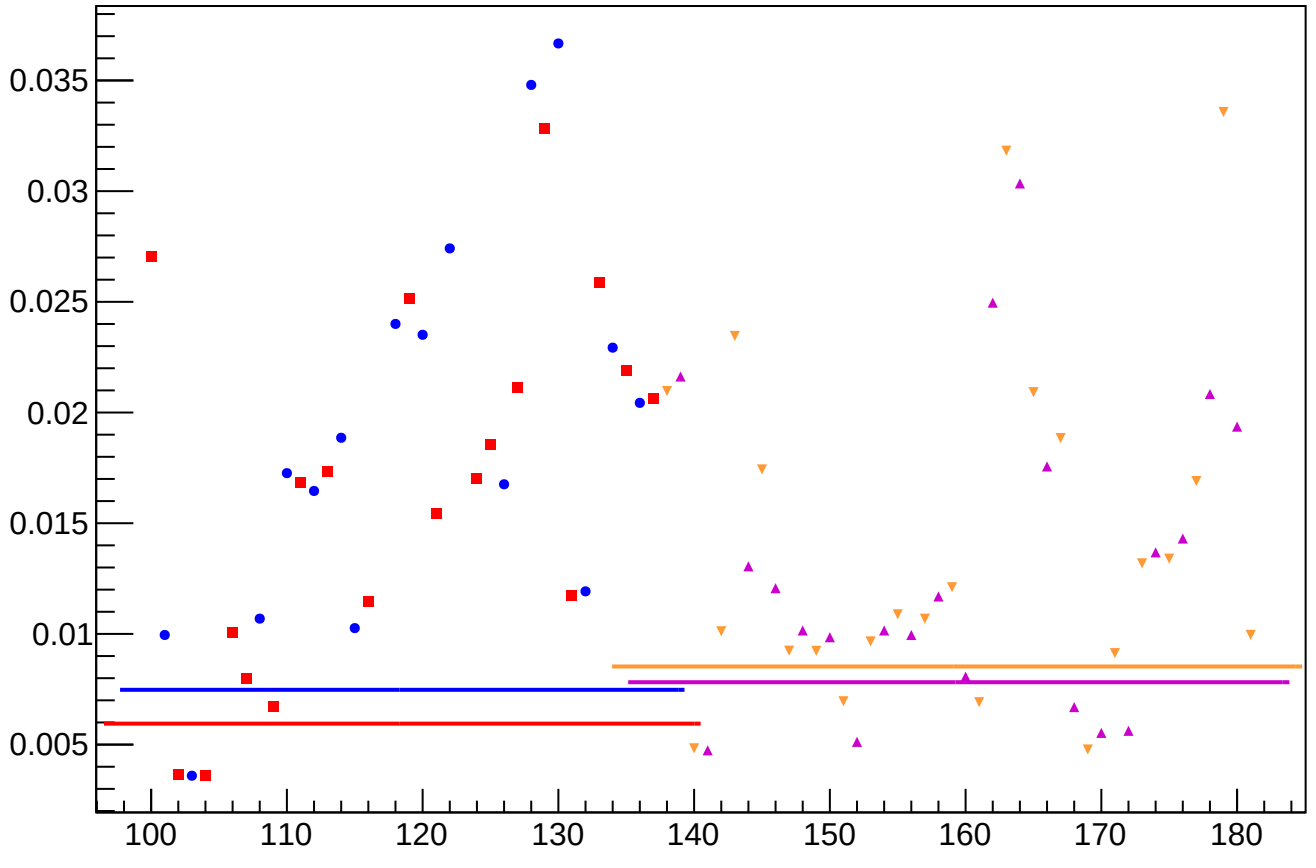
Left: -0.000+/-0.000 $\chi^2$/NDF: 67.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 37.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:40.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:62.9/41

All: -0.000+/-0.000 $\chi^2$/NDF: 106.1/78




Right In: 0.007+/-0.000 $\chi^2$/NDF: 6076199.5/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:7550884.2/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 5934015.2/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:6669111.5/20

Left: 0.008+/-0.000 $\chi^2$/NDF: 14318480.9/43

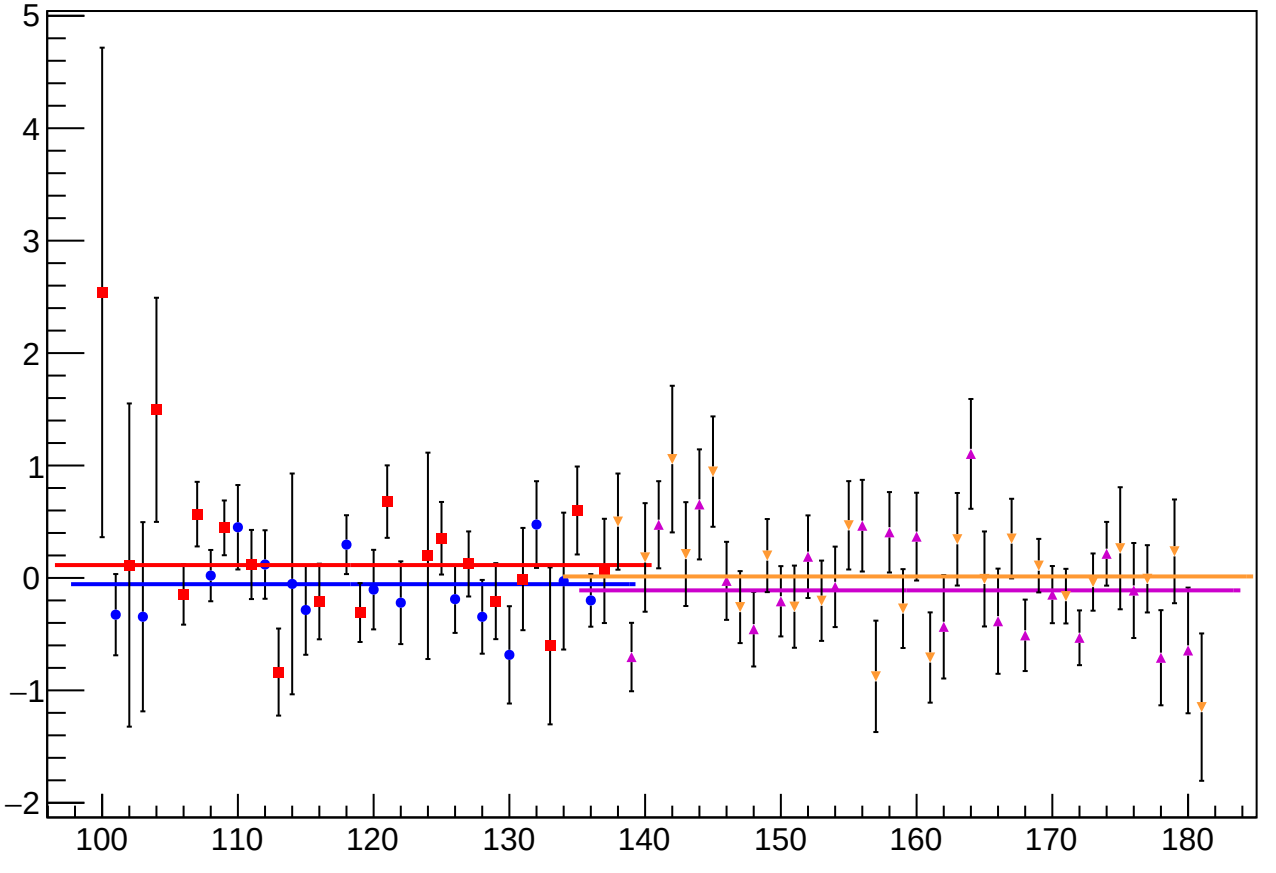
Right: 0.007+/-0.000 $\chi^2$/NDF: 12215563.8/34

In: 0.008+/-0.000 $\chi^2$/NDF:12757521.9/36

Out: 0.008+/-0.000 $\chi^2$/NDF:14458450.5/41

All: 0.008+/-0.000 $\chi^2$/NDF: 27227777.0/78

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.055+/-0.085 $\chi^2$/NDF: 10.7/15

Left Out: 0.013+/-0.076 $\chi^2$/NDF:24.1/22

Right Out: 0.114+/-0.083 $\chi^2$/NDF: 25.2/18

Left In: -0.111+/-0.077 $\chi^2$/NDF:31.9/20

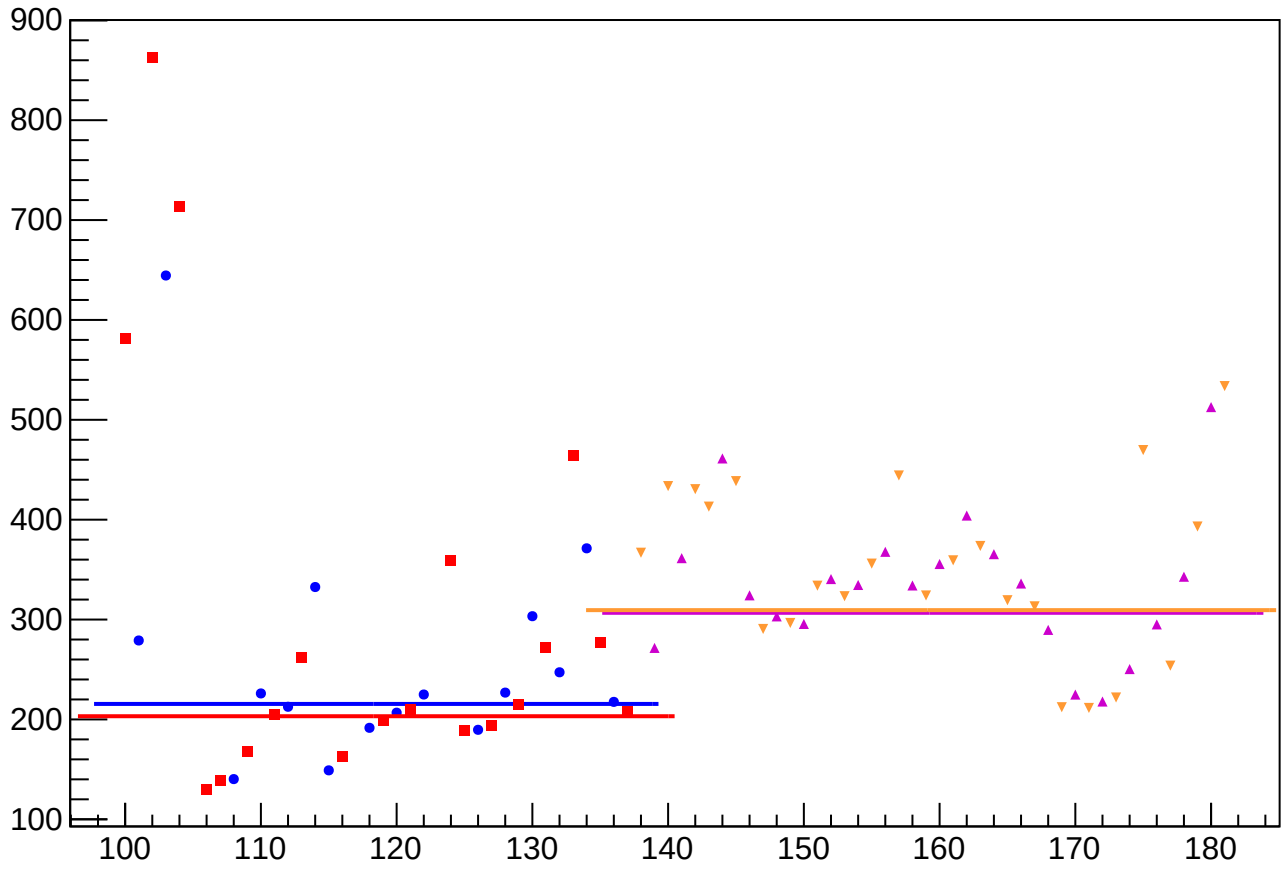
Left: -0.048+/-0.054 $\chi^2$/NDF: 57.2/43

Right: 0.032+/-0.060 $\chi^2$/NDF: 37.9/34

In: -0.086+/-0.057 $\chi^2$/NDF:42.7/36

Out: 0.060+/-0.056 $\chi^2$/NDF:50.1/41

All: -0.012+/-0.040 $\chi^2$/NDF: 96.1/78




Right In: 215.518+/-0.060 $\chi^2$/NDF: 1148700.9/15

Left Out: 309.424+/-0.054 $\chi^2$/NDF:2197687.3/22

Right Out: 203.205+/-0.059 $\chi^2$/NDF: 1835535.5/18

Left In: 306.765+/-0.055 $\chi^2$/NDF:1363186.3/20

Left: 308.110+/-0.038 $\chi^2$/NDF: 3562072.0/43

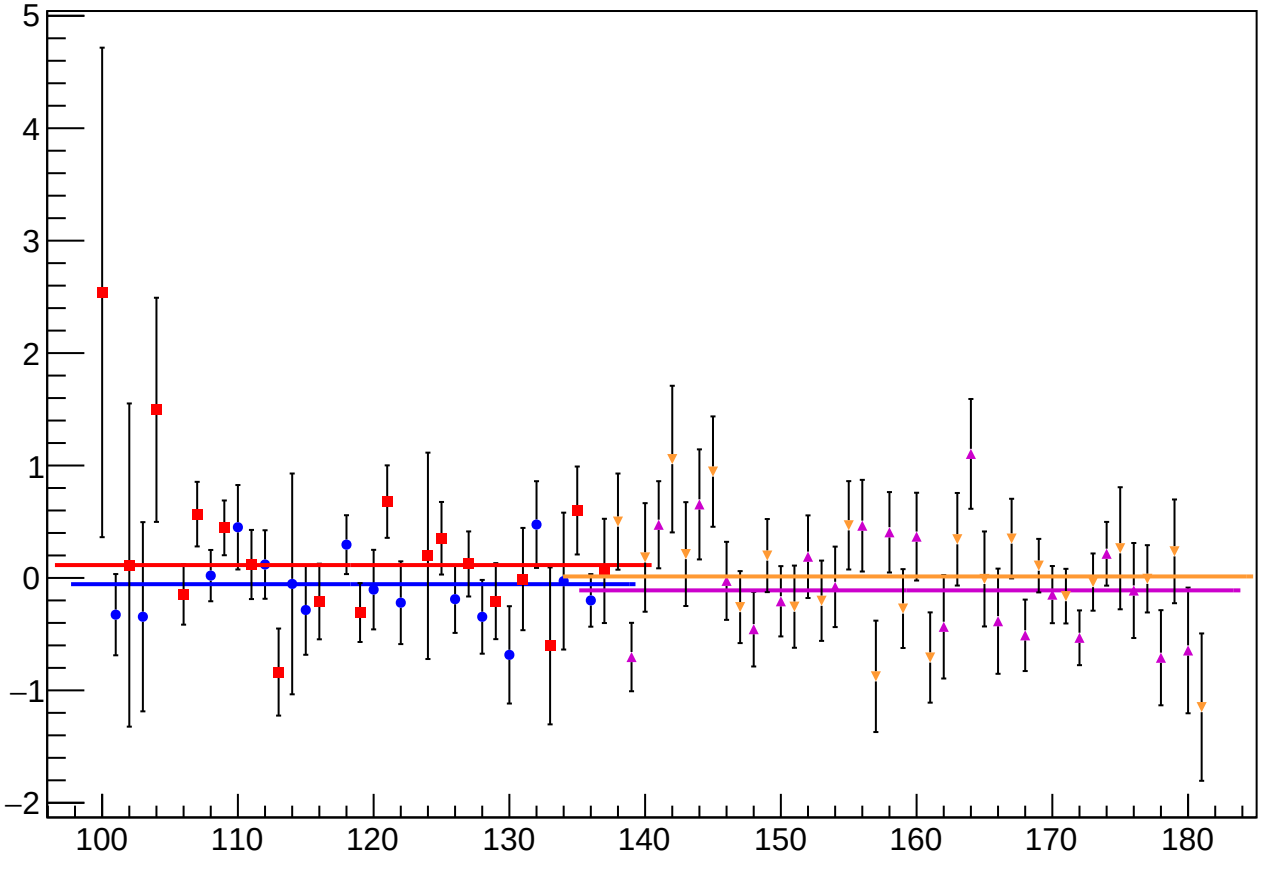
Right: 209.197+/-0.042 $\chi^2$/NDF: 3005542.9/34

In: 265.719+/-0.041 $\chi^2$/NDF:3766018.1/36

Out: 260.864+/-0.040 $\chi^2$/NDF:5802060.1/41

All: 263.246+/-0.028 $\chi^2$/NDF: 9575383.7/78

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.055+/-0.085 $\chi^2$/NDF: 10.7/15

Left Out: 0.013+/-0.076 $\chi^2$/NDF:24.1/22

Right Out: 0.114+/-0.083 $\chi^2$/NDF: 25.2/18

Left In: -0.111+/-0.077 $\chi^2$/NDF:31.9/20

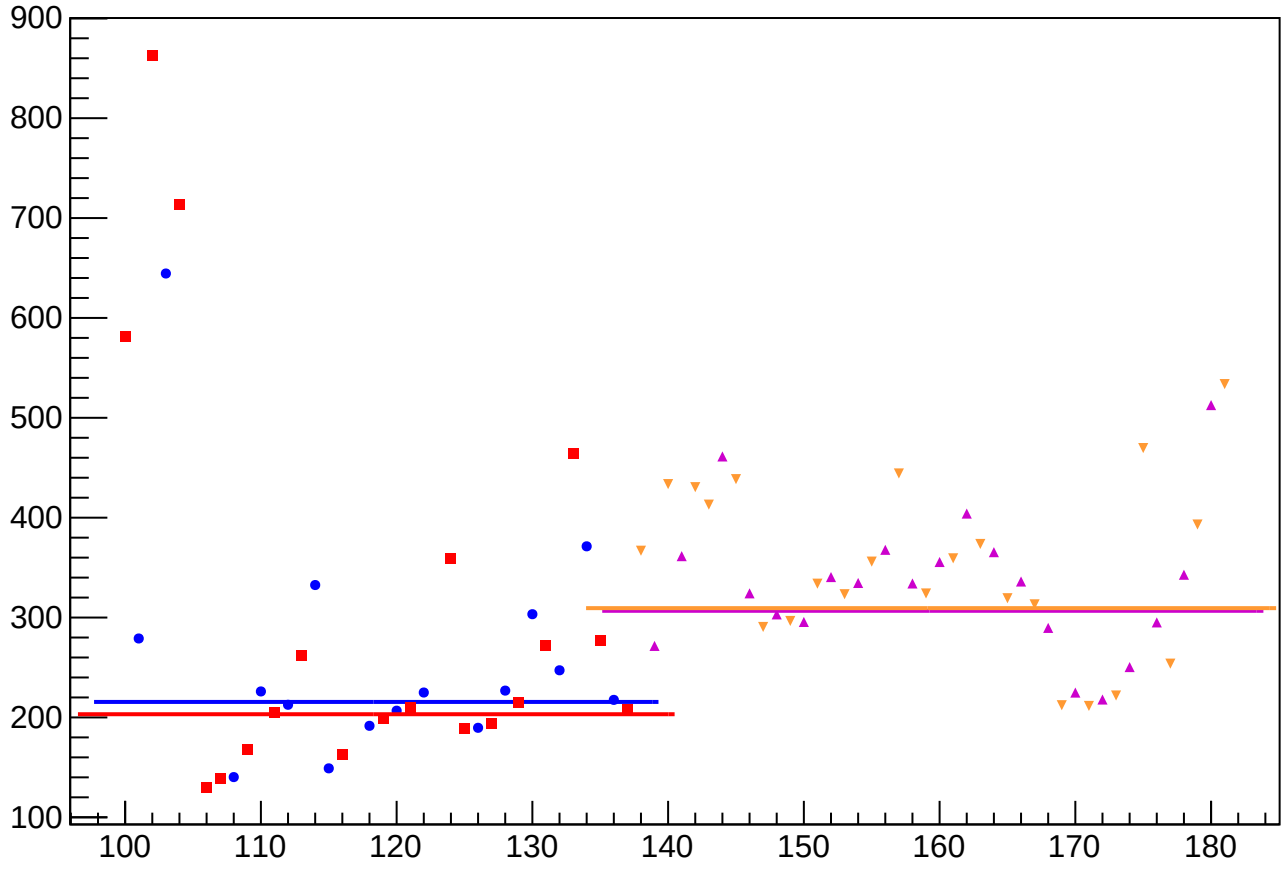
Left: -0.048+/-0.054 $\chi^2$/NDF: 57.2/43

Right: 0.032+/-0.060 $\chi^2$/NDF: 37.9/34

In: -0.086+/-0.057 $\chi^2$/NDF:42.7/36

Out: 0.060+/-0.056 $\chi^2$/NDF:50.1/41

All: -0.012+/-0.040 $\chi^2$/NDF: 96.1/78




Right In: 215.518+/-0.060 $\chi^2$/NDF: 1148700.9/15

Left Out: 309.424+/-0.054 $\chi^2$/NDF:2197687.3/22

Right Out: 203.205+/-0.059 $\chi^2$/NDF: 1835535.5/18

Left In: 306.765+/-0.055 $\chi^2$/NDF:1363186.3/20

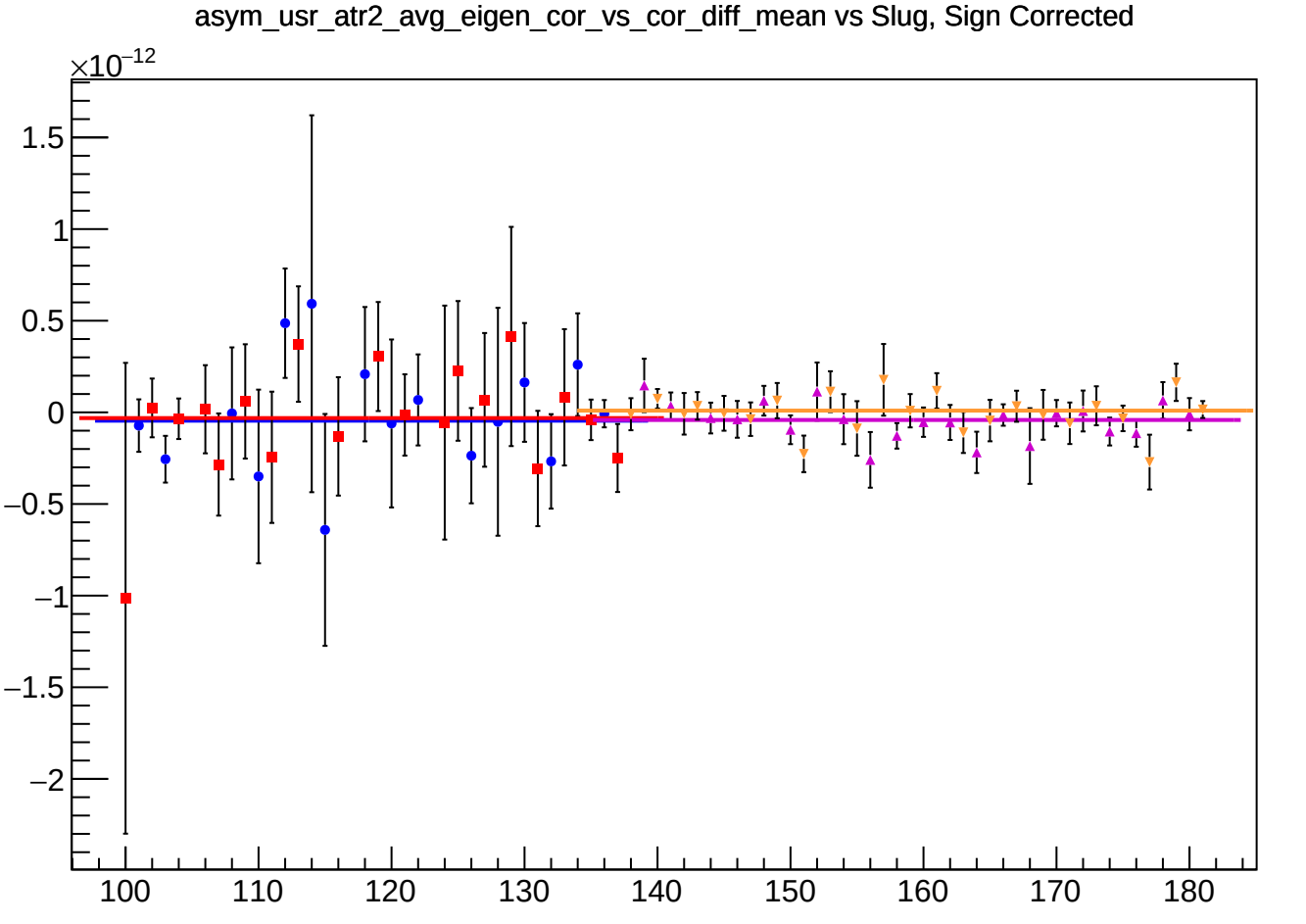
Left: 308.110+/-0.038 $\chi^2$/NDF: 3562072.0/43

Right: 209.197+/-0.042 $\chi^2$/NDF: 3005542.9/34

In: 265.719+/-0.041 $\chi^2$/NDF:3766018.1/36

Out: 260.864+/-0.040 $\chi^2$/NDF:5802060.1/41

All: 263.246+/-0.028 $\chi^2$/NDF: 9575383.7/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:19.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 8.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.0/20

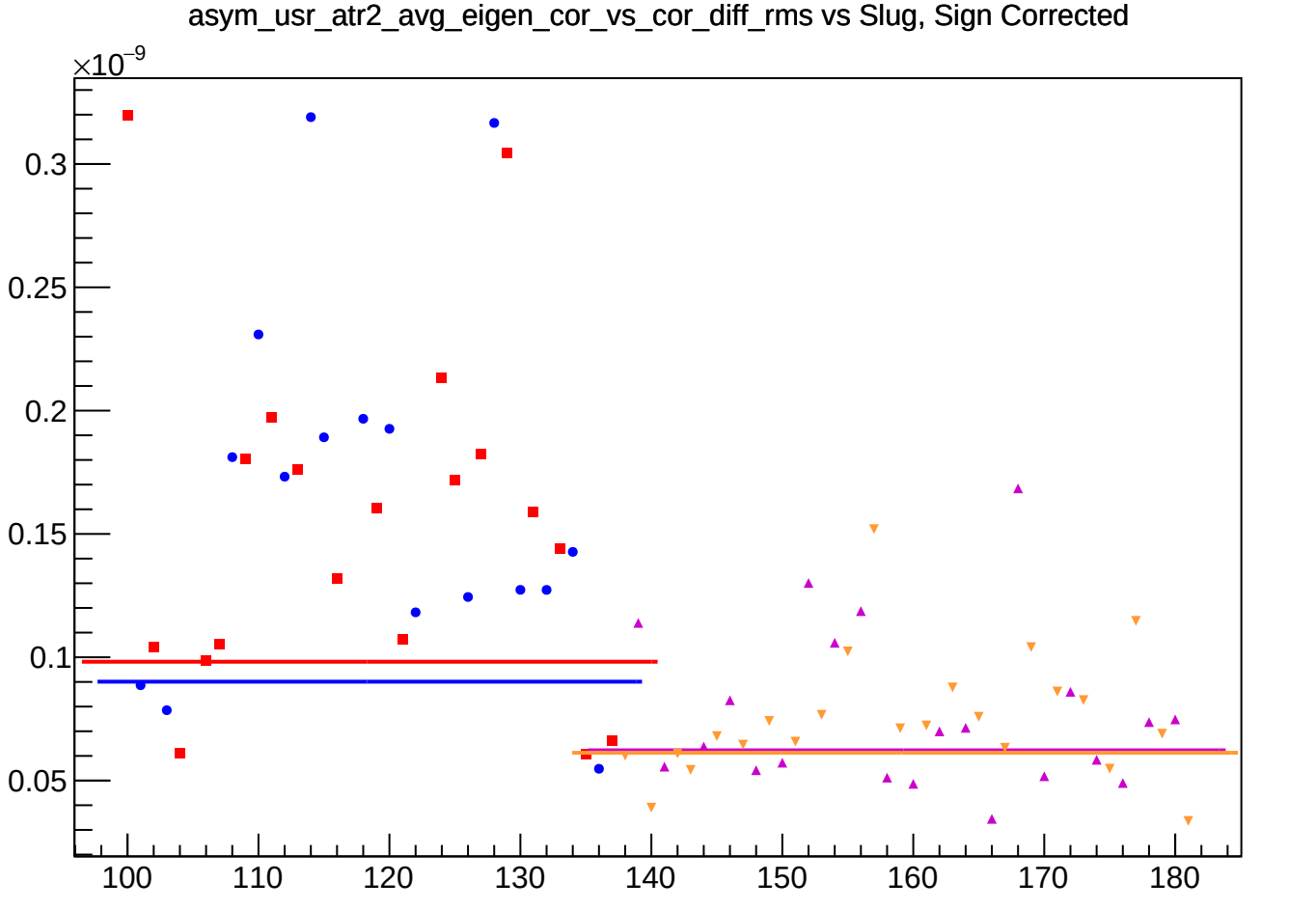
Left: -0.000+/-0.000 $\chi^2$/NDF: 38.9/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 19.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:27.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:28.2/41

All: -0.000+/-0.000 $\chi^2$/NDF: 59.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1808066.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2617911.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1694726.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2609145.1/20

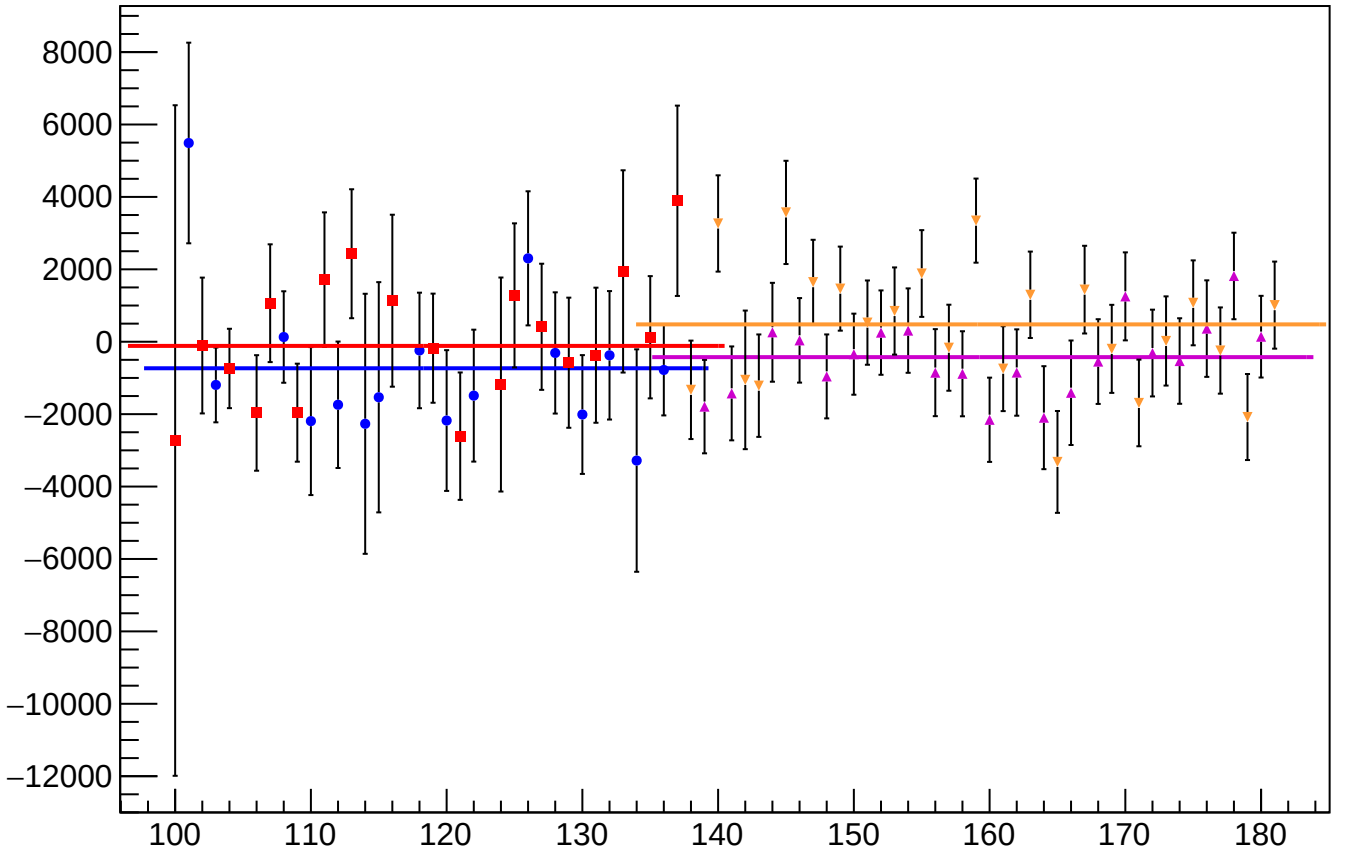
Left: 0.000+/-0.000 $\chi^2$/NDF: 5229779.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3527917.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:4955875.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5203890.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10160498.7/78




Right In: -732.747+/-427.384 $\chi^2$/NDF: 11.7/15

Left Out: 479.270+/-259.055 $\chi^2$/NDF:41.2/22

Right Out: -115.040+/-411.437 $\chi^2$/NDF: 13.1/18

Left In: -425.271+/-265.543 $\chi^2$/NDF:13.6/20

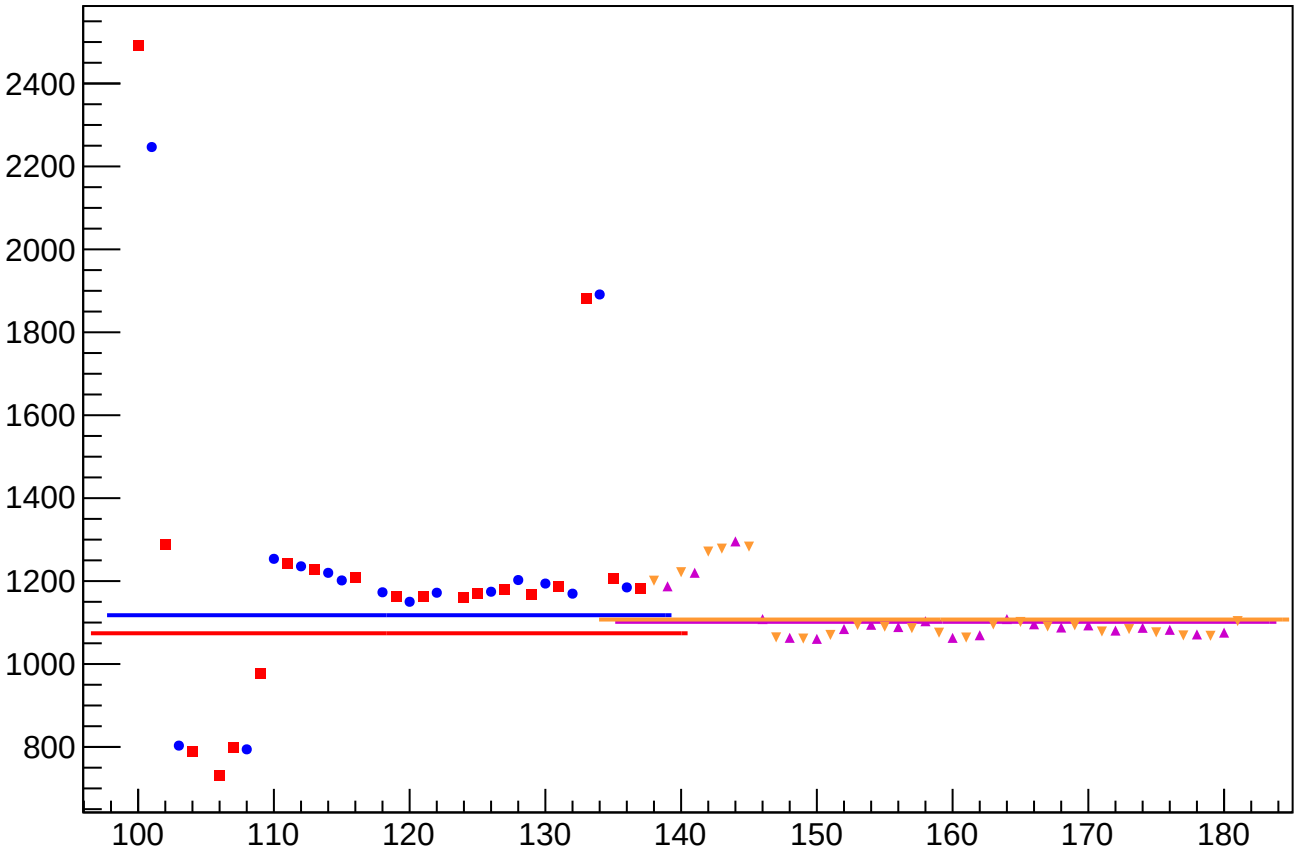
Left: 38.184+/-185.431 $\chi^2$/NDF: 60.7/43

Right: -412.155+/-296.407 $\chi^2$/NDF: 25.9/34

In: -510.909+/-225.552 $\chi^2$/NDF:25.7/36

Out: 310.549+/-219.221 $\chi^2$/NDF:55.8/41

All: -88.489+/-157.203 $\chi^2$/NDF: 88.3/78




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819835.1/15

Left Out: 1107.278+/-0.183 $\chi^2$/NDF:120307.4/22

Right Out: 1074.148+/-0.289 $\chi^2$/NDF: 649508.4/18

Left In: 1101.742+/-0.188 $\chi^2$/NDF:79331.7/20

Left: 1104.579+/-0.131 $\chi^2$/NDF: 200084.6/43

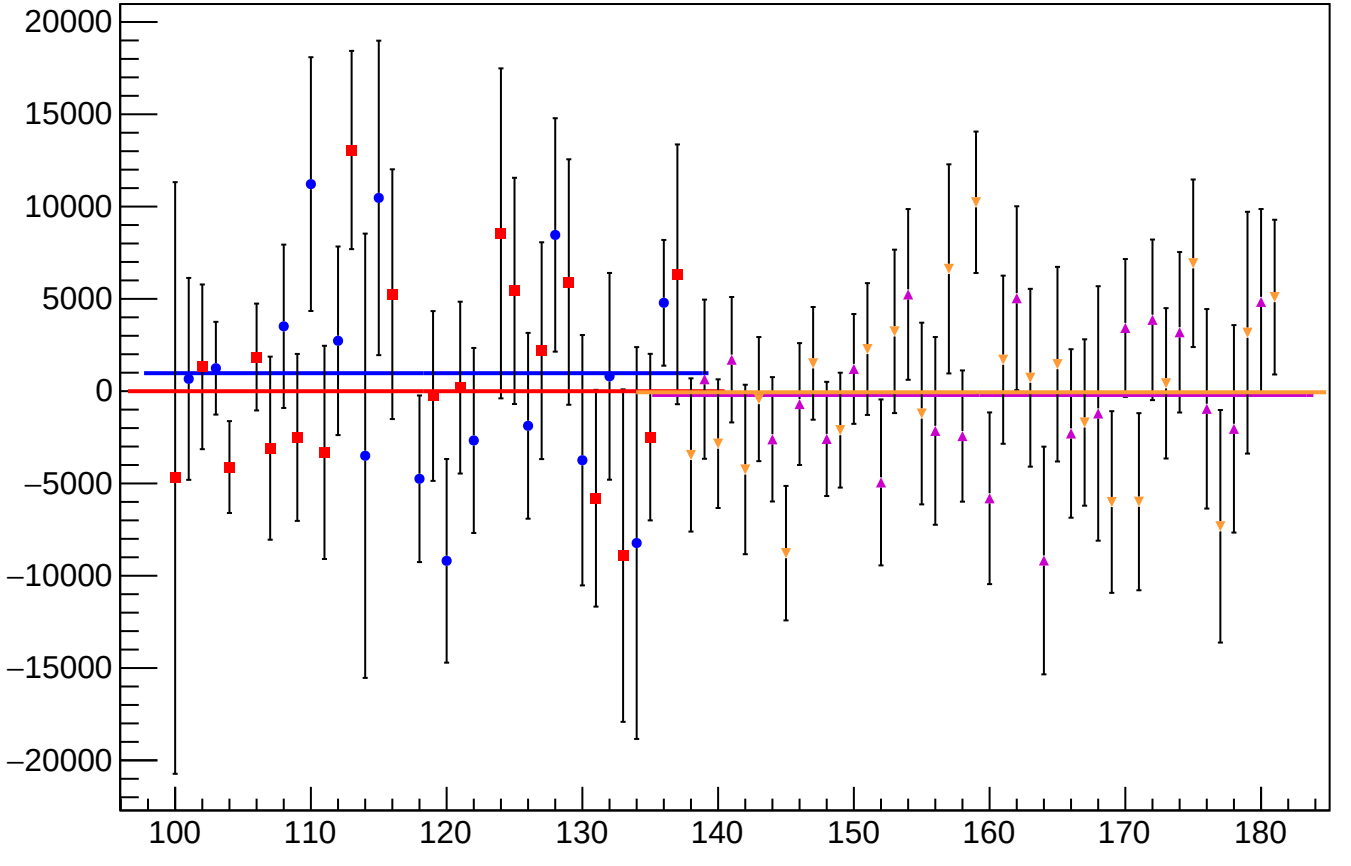
Right: 1094.908+/-0.209 $\chi^2$/NDF: 1480200.6/34

In: 1106.182+/-0.159 $\chi^2$/NDF:901174.5/36

Out: 1097.760+/-0.155 $\chi^2$/NDF:779213.3/41

All: 1101.841+/-0.111 $\chi^2$/NDF: 1681824.9/78

asym_usr_atr2_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 973.755+/-1232.754 $\chi^2$/NDF: 13.8/15

Left Out: -59.751+/-874.460 $\chi^2$/NDF:27.1/22

Right Out: -2.885+/-1113.897 $\chi^2$/NDF: 16.6/18

Left In: -205.927+/-906.585 $\chi^2$/NDF:13.2/20

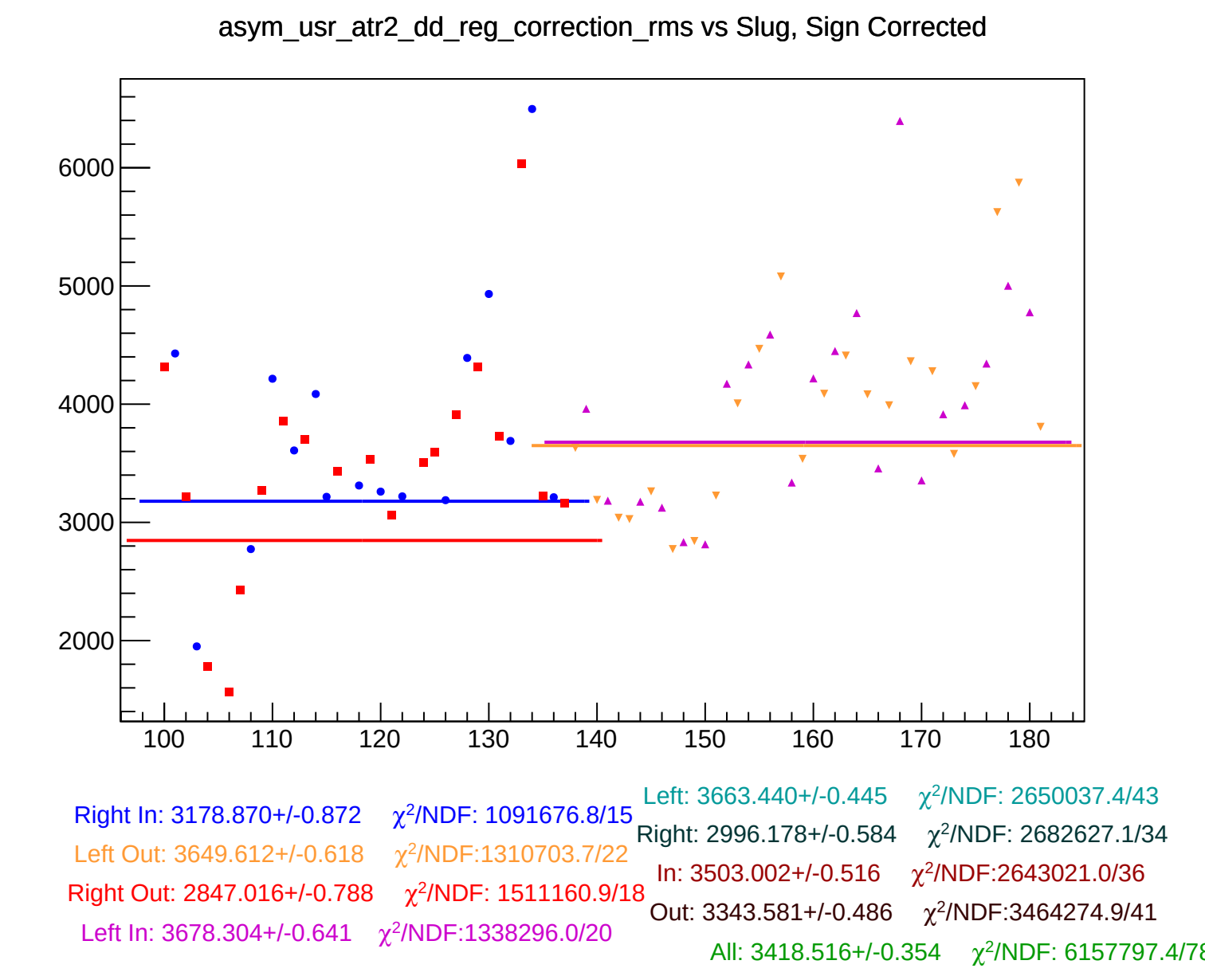
Left: -130.204+/-629.387 $\chi^2$/NDF: 40.3/43

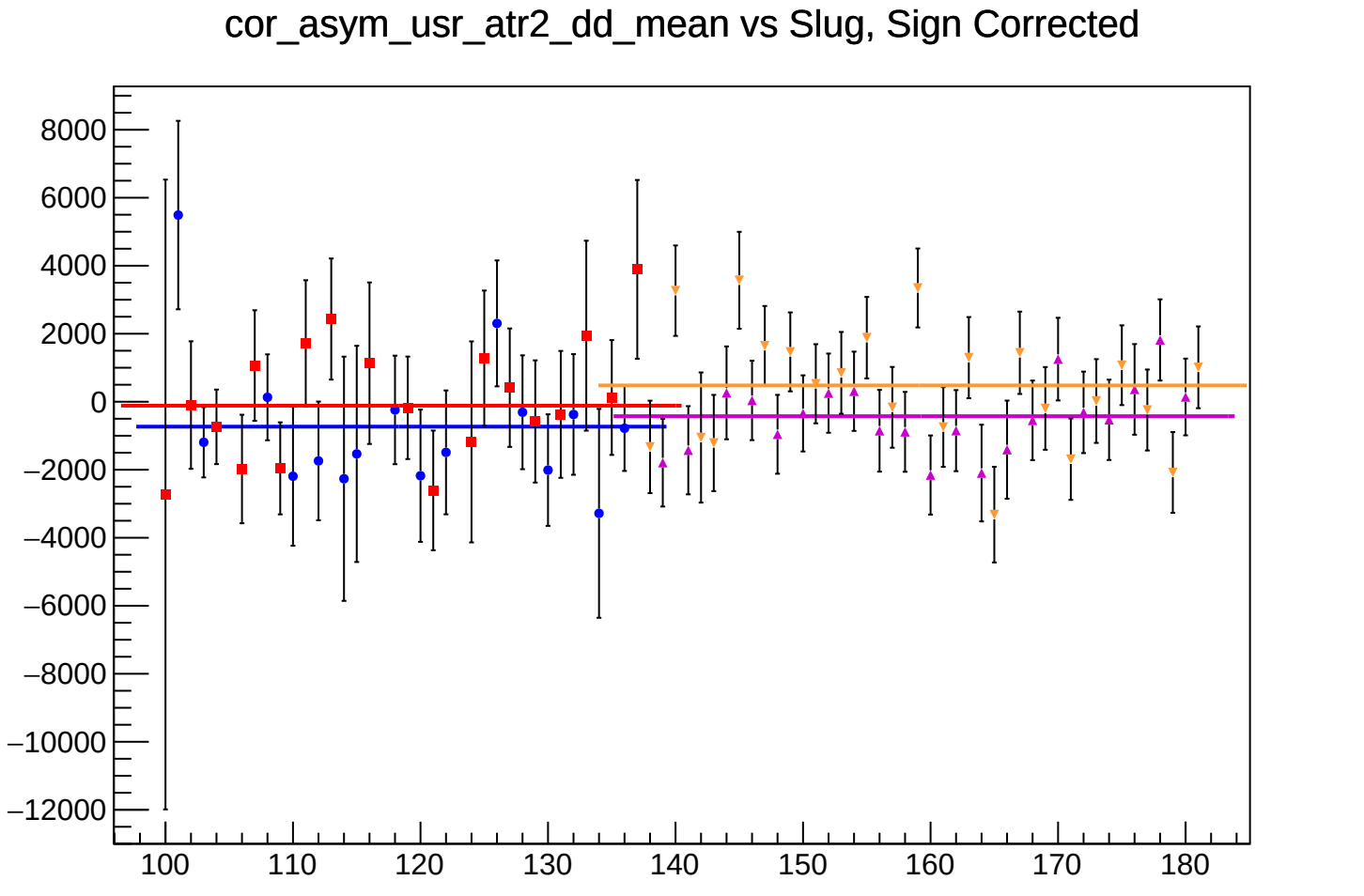
Right: 436.095+/-826.478 $\chi^2$/NDF: 30.7/34

In: 208.142+/-730.349 $\chi^2$/NDF:27.6/36

Out: -38.068+/-687.827 $\chi^2$/NDF:43.6/41

All: 77.661+/-500.725 $\chi^2$/NDF: 71.3/78


asym_usr_atr2_dd_reg_correction_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
100
110
120
130
140
150
160
170
180
Right In: 3178.870+/-0.872 χ²/NDF: 1091676.8/15
Left Out: 3649.612+/-0.618 χ²/NDF:1310703.7/22
Right Out: 2847.016+/-0.788 χ²/NDF: 1511160.9/18
Left In: 3678.304+/-0.641 χ²/NDF:1338296.0/20
Left: 3663.440+/-0.445 χ²/NDF: 2650037.4/43
Right: 2996.178+/-0.584 χ²/NDF: 2682627.1/34
In: 3503.002+/-0.516 χ²/NDF:2643021.0/36
Out: 3343.581+/-0.486 χ²/NDF:3464274.9/41
All: 3418.516+/-0.354 χ²/NDF: 6157797.4/78




Right In: -732.682+/-427.385 $\chi^2$/NDF: 11.7/15

Left Out: 479.352+/-259.055 $\chi^2$/NDF:41.2/22

Right Out: -115.308+/-411.441 $\chi^2$/NDF: 13.1/18

Left In: -425.190+/-265.543 $\chi^2$/NDF:13.6/20

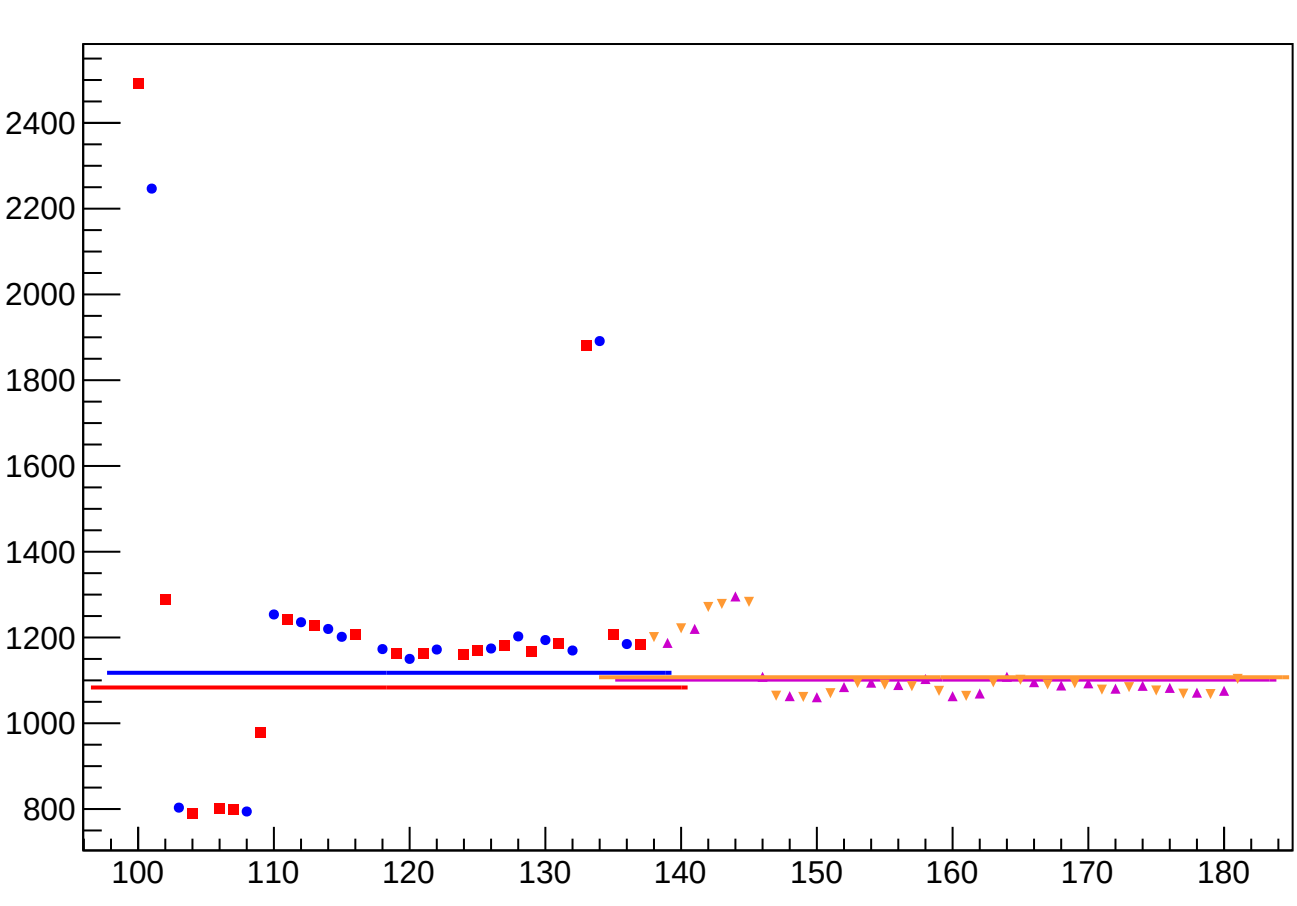
Left: 38.265+/-185.431 $\chi^2$/NDF: 60.7/43

Right: -412.265+/-296.409 $\chi^2$/NDF: 25.9/34

In: -510.833+/-225.552 $\chi^2$/NDF:25.7/36

Out: 310.534+/-219.221 $\chi^2$/NDF:55.8/41

All: -88.460+/-157.203 $\chi^2$/NDF: 88.3/78




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819831.7/15

Left Out: 1107.278+/-0.183 $\chi^2$/NDF:120307.4/22

Right Out: 1083.421+/-0.290 $\chi^2$/NDF: 595016.7/18

Left In: 1101.742+/-0.188 $\chi^2$/NDF:79331.7/20

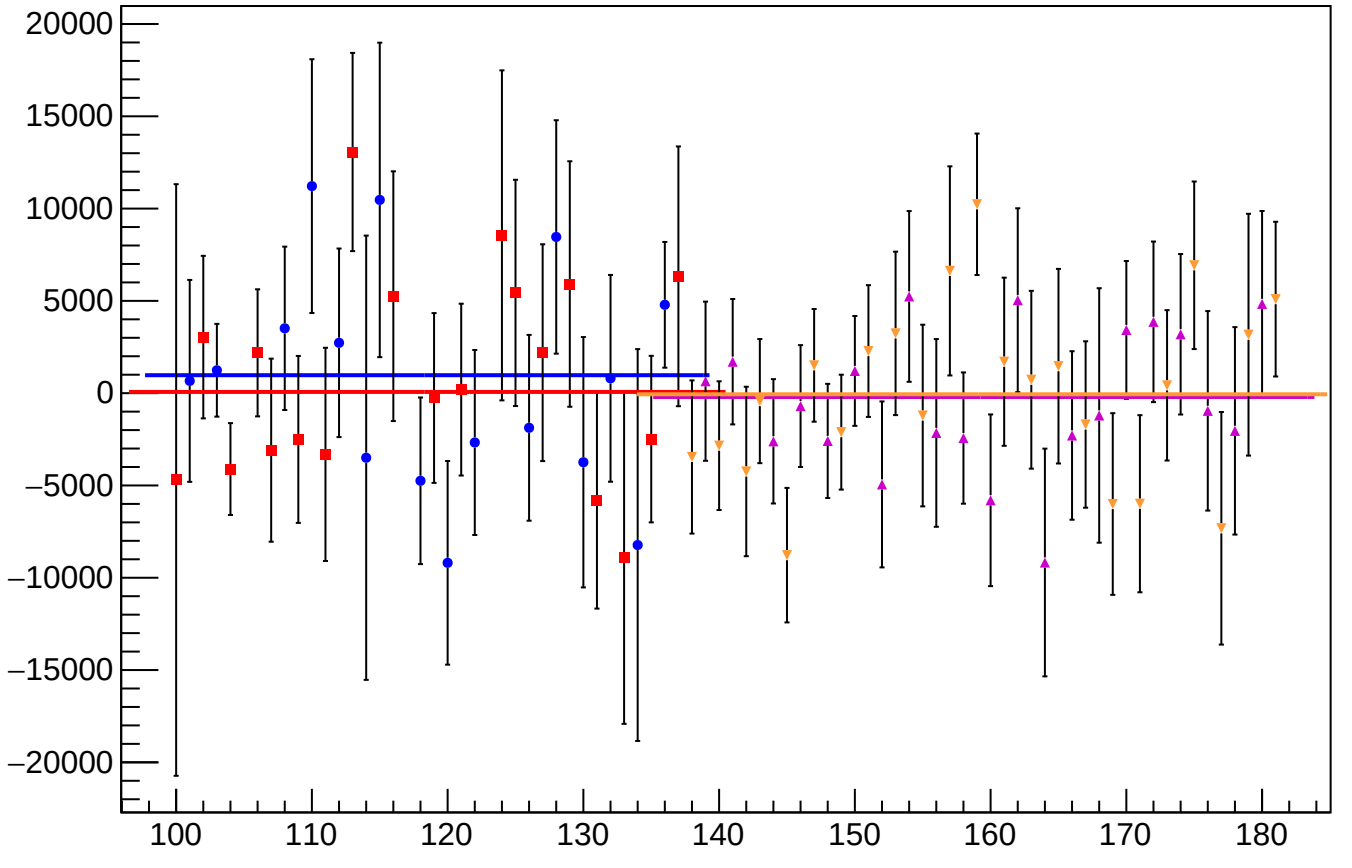
Left: 1104.579+/-0.131 $\chi^2$/NDF: 200084.6/43

Right: 1099.869+/-0.209 $\chi^2$/NDF: 1421532.1/34

In: 1106.182+/-0.159 $\chi^2$/NDF:901171.3/36

Out: 1100.487+/-0.155 $\chi^2$/NDF:720152.8/41

All: 1103.252+/-0.111 $\chi^2$/NDF: 1621980.1/78




Right In: 973.256+/-1232.803 $\chi^2$/NDF: 13.8/15

Left Out: -59.751+/-874.459 $\chi^2$/NDF:27.1/22

Right Out: 67.113+/-1137.892 $\chi^2$/NDF: 16.9/18

Left In: -205.898+/-906.584 $\chi^2$/NDF:13.2/20

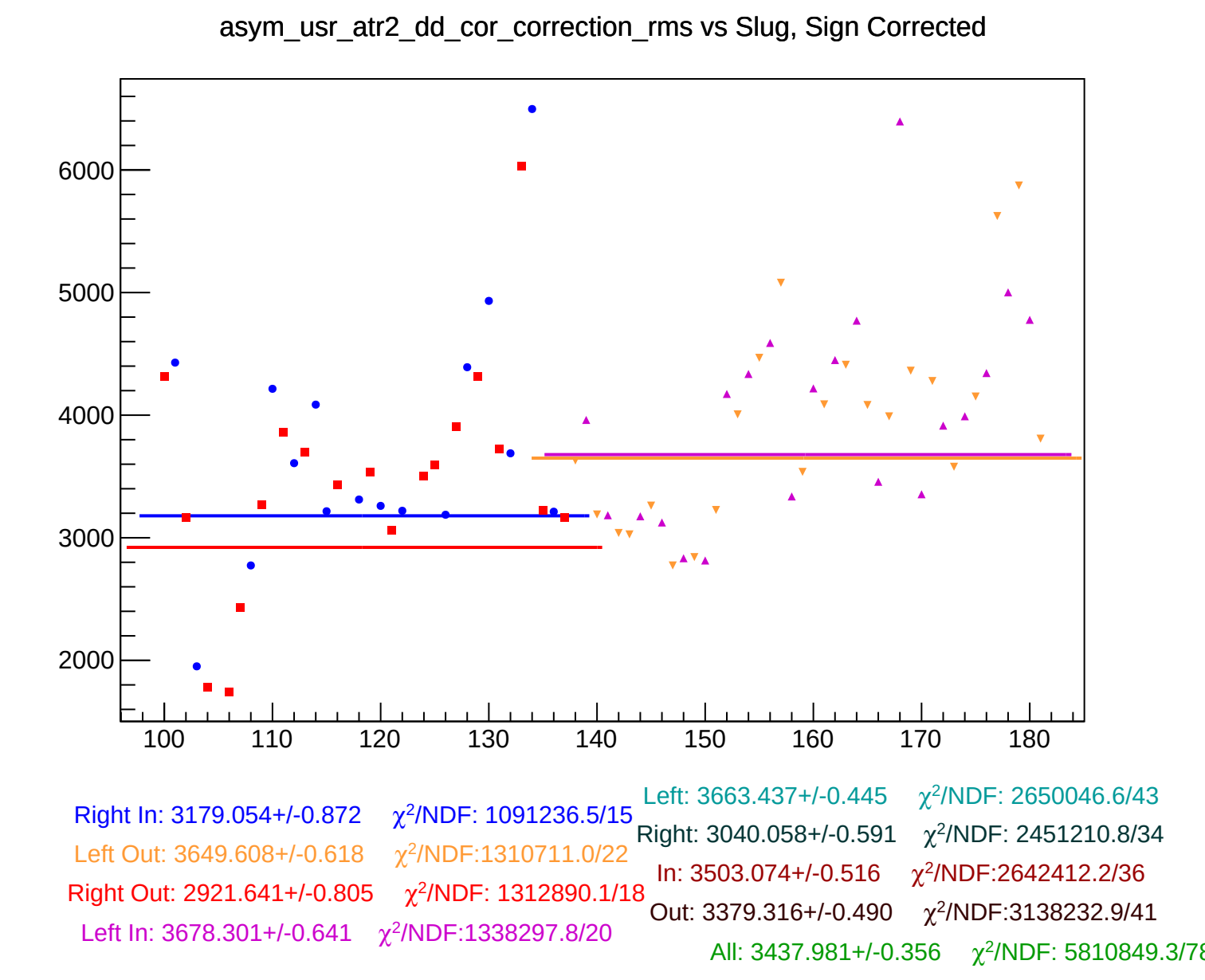
Left: -130.189+/-629.387 $\chi^2$/NDF: 40.3/43

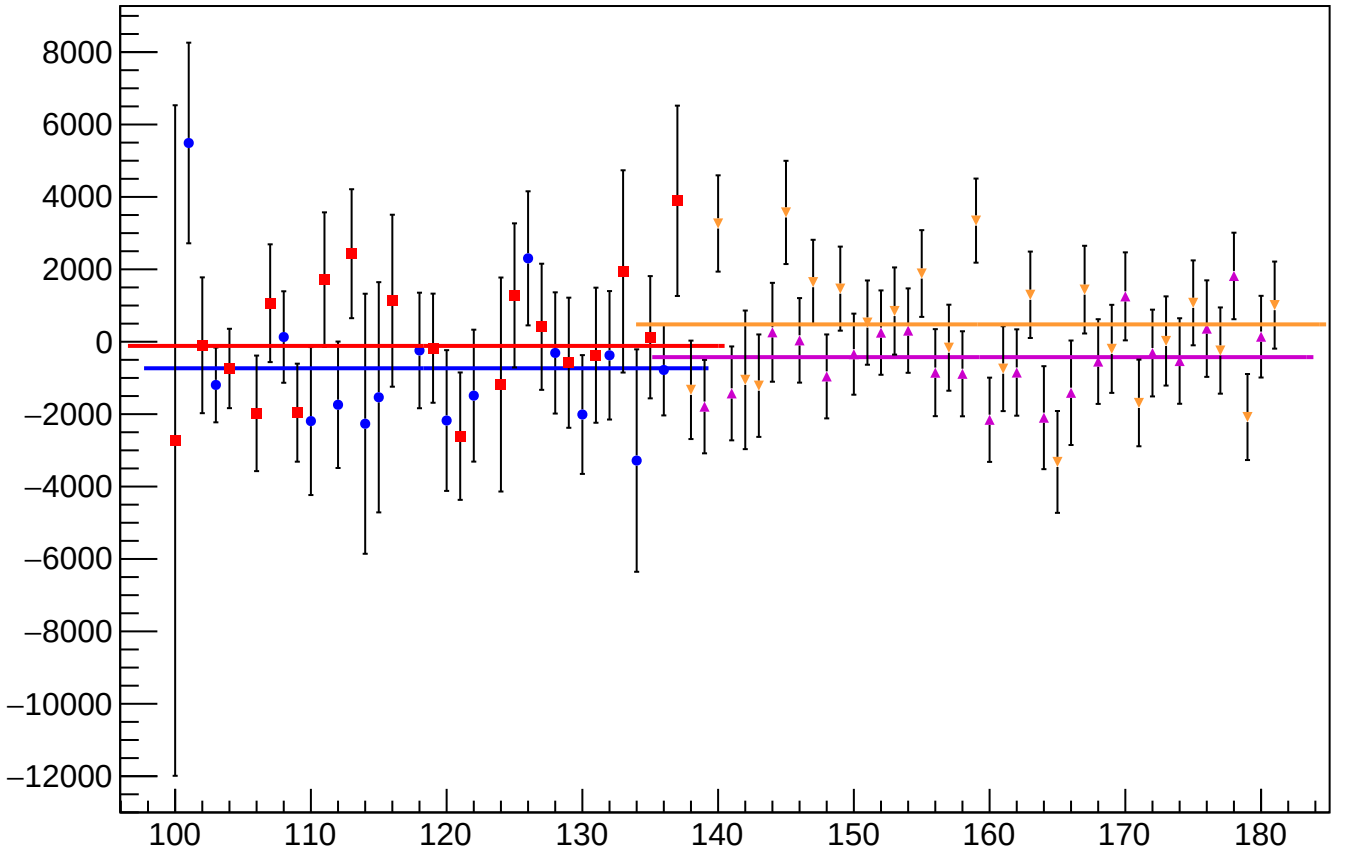
Right: 483.965+/-836.154 $\chi^2$/NDF: 31.0/34

In: 207.965+/-730.359 $\chi^2$/NDF:27.6/36

Out: -12.647+/-693.365 $\chi^2$/NDF:44.0/41

All: 91.930+/-502.853 $\chi^2$/NDF: 71.7/78


asym_usr_atr2_dd_cor_correction_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
100
110
120
130
140
150
160
170
180
Right In: 3179.054+/-0.872 χ²/NDF: 1091236.5/15
Left Out: 3649.608+/-0.618 χ²/NDF:1310711.0/22
Right Out: 2921.641+/-0.805 χ²/NDF: 1312890.1/18
Left In: 3678.301+/-0.641 χ²/NDF:1338297.8/20
Left: 3663.437+/-0.445 χ²/NDF: 2650046.6/43
Right: 3040.058+/-0.591 χ²/NDF: 2451210.8/34
In: 3503.074+/-0.516 χ²/NDF:2642412.2/36
Out: 3379.316+/-0.490 χ²/NDF:3138232.9/41
All: 3437.981+/-0.356 χ²/NDF: 5810849.3/78




Right In: -732.682+/-427.385 $\chi^2$/NDF: 11.7/15

Left Out: 479.352+/-259.055 $\chi^2$/NDF:41.2/22

Right Out: -115.308+/-411.441 $\chi^2$/NDF: 13.1/18

Left In: -425.190+/-265.543 $\chi^2$/NDF:13.6/20

Left: 38.265+/-185.431 $\chi^2$/NDF: 60.7/43

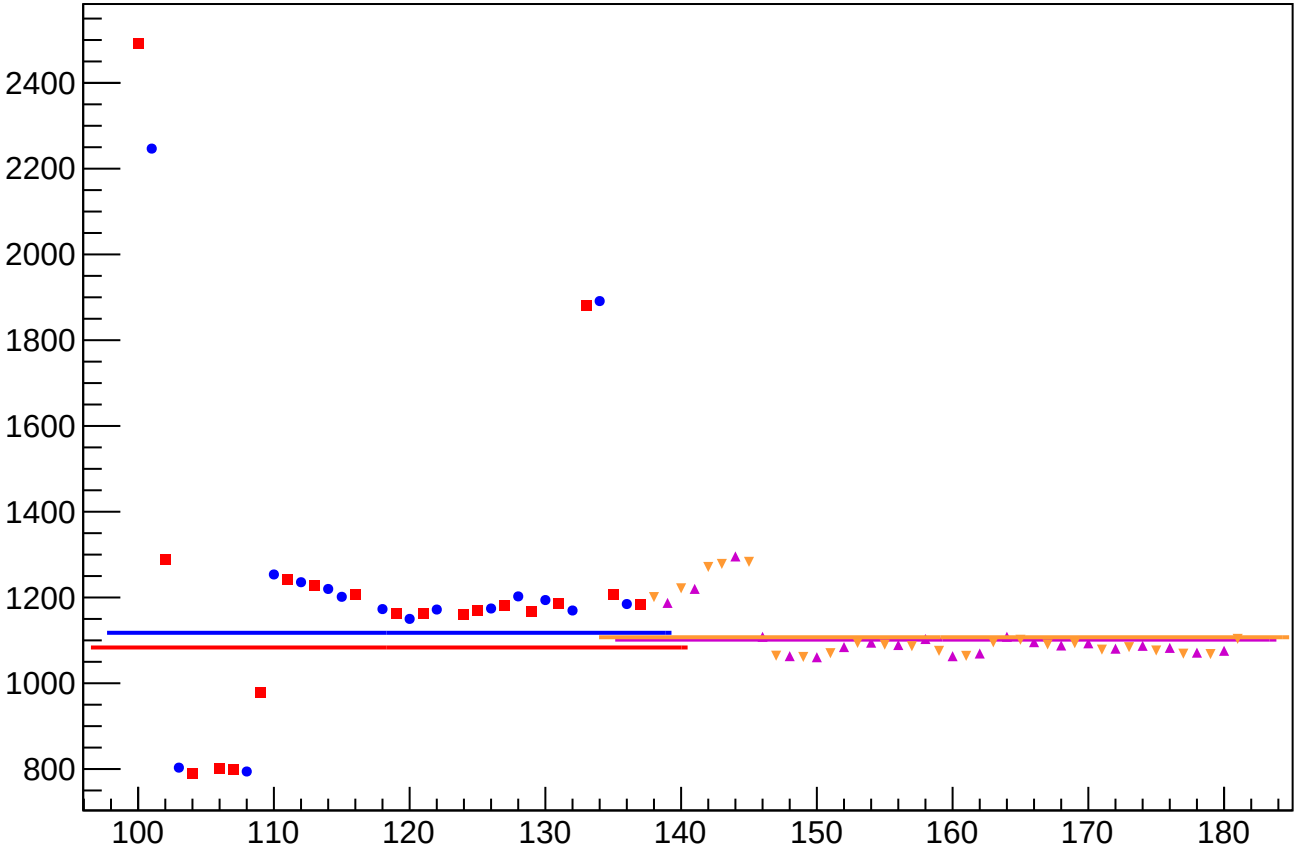
Right: -412.265+/-296.409 $\chi^2$/NDF: 25.9/34

In: -510.833+/-225.552 $\chi^2$/NDF:25.7/36

Out: 310.534+/-219.221 $\chi^2$/NDF:55.8/41

All: -88.460+/-157.203 $\chi^2$/NDF: 88.3/78

# eigen_cor_asym_usr_atr2_dd_rms vs Slug, Sign Corrected




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819831.7/15

Left Out: 1107.278+/-0.183 $\chi^2$/NDF:120307.4/22

Right Out: 1083.421+/-0.290 $\chi^2$/NDF: 595016.7/18

Left In: 1101.742+/-0.188 $\chi^2$/NDF:79331.7/20

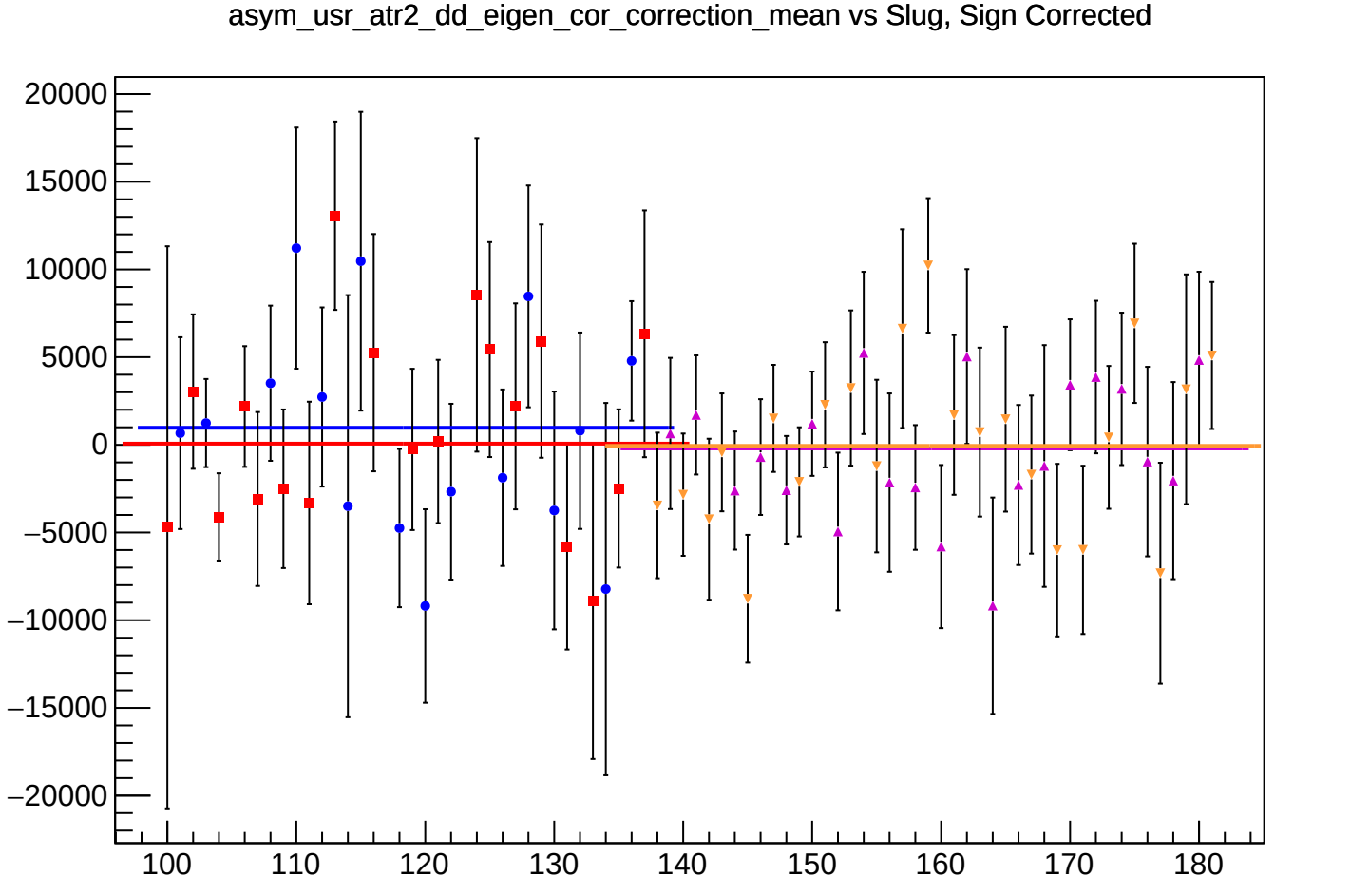
Left: 1104.579+/-0.131 $\chi^2$/NDF: 200084.6/43

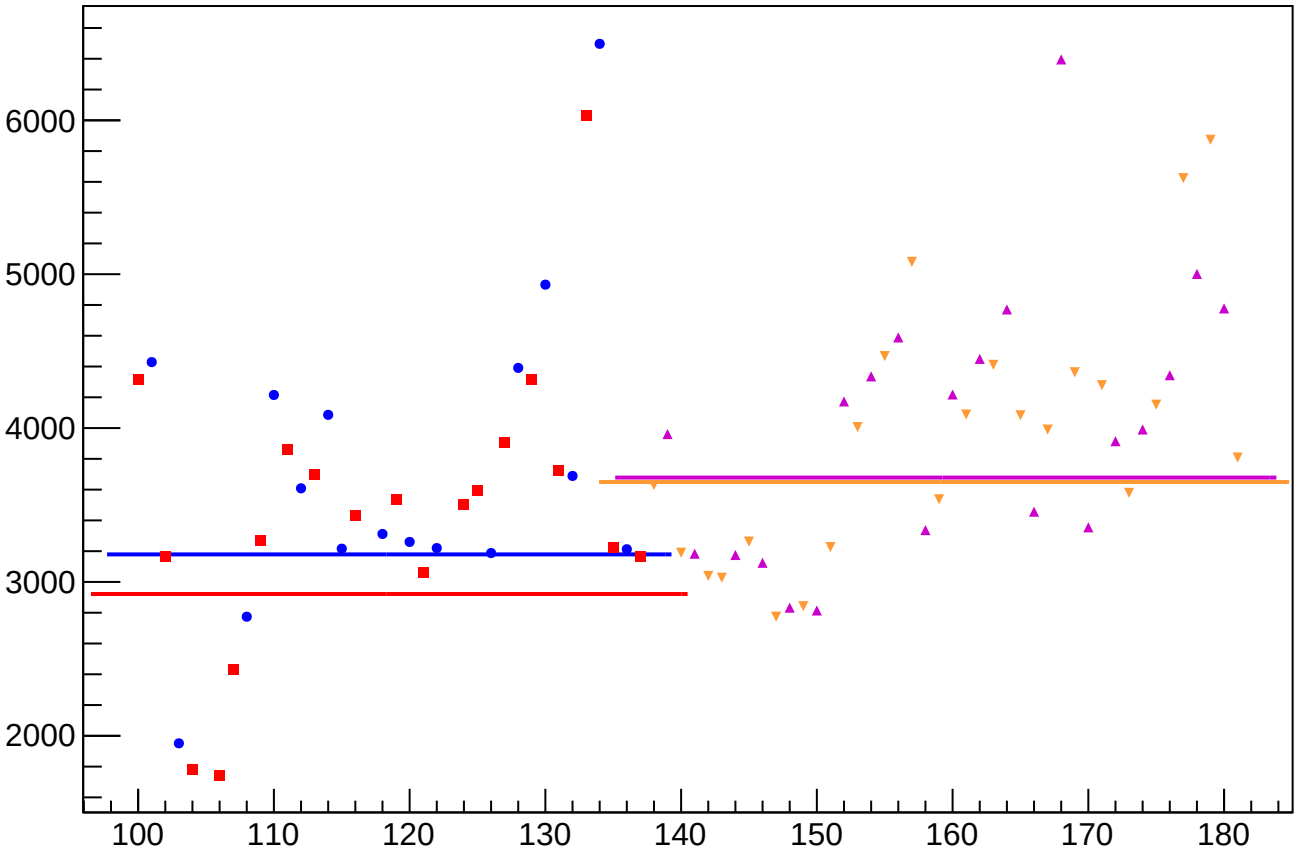
Right: 1099.869+/-0.209 $\chi^2$/NDF: 1421532.1/34

In: 1106.182+/-0.159 $\chi^2$/NDF:901171.3/36

Out: 1100.487+/-0.155 $\chi^2$/NDF:720152.8/41

All: 1103.252+/-0.111 $\chi^2$/NDF: 1621980.1/78


asym_usr_atr2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
160
170
180
Right In: 973.256+/-1232.803 χ²/NDF: 13.8/15
Left Out: -59.751+/-874.459 χ²/NDF:27.1/22
Right Out: 67.113+/-1137.892 χ²/NDF: 16.9/18
Left In: -205.898+/-906.584 χ²/NDF:13.2/20
Left: -130.189+/-629.387 χ²/NDF: 40.3/43
Right: 483.965+/-836.154 χ²/NDF: 31.0/34
In: 207.965+/-730.359 χ²/NDF:27.6/36
Out: -12.647+/-693.365 χ²/NDF:44.0/41
All: 91.930+/-502.853 χ²/NDF: 71.7/78




Right In: 3179.054+/-0.872 $\chi^2$/NDF: 1091236.5/15

Left Out: 3649.608+/-0.618 $\chi^2$/NDF:1310711.0/22

Right Out: 2921.641+/-0.805 $\chi^2$/NDF: 1312890.1/18

Left In: 3678.301+/-0.641 $\chi^2$/NDF:1338297.8/20

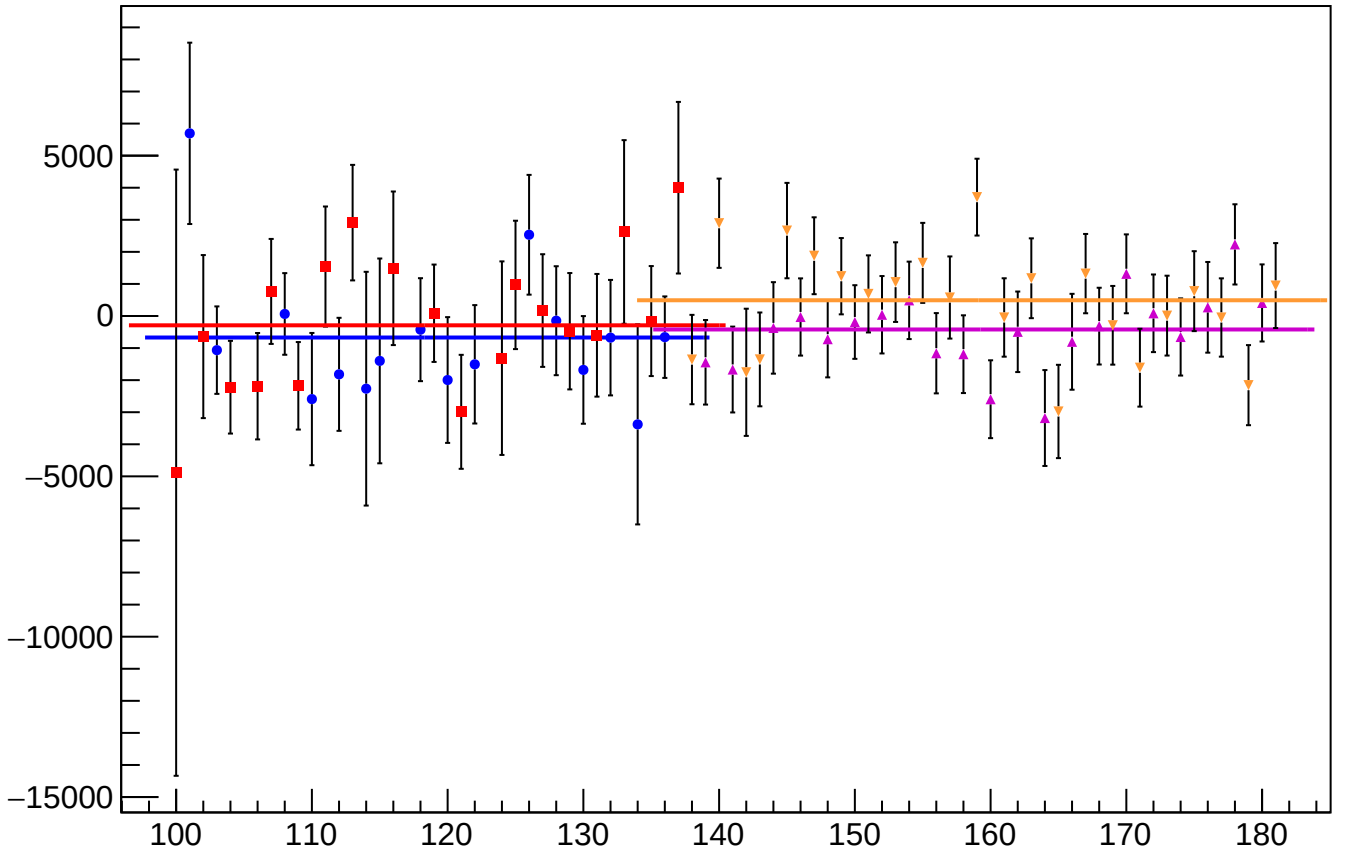
Left: 3663.437+/-0.445 $\chi^2$/NDF: 2650046.6/43

Right: 3040.058+/-0.591 $\chi^2$/NDF: 2451210.8/34

In: 3503.074+/-0.516 $\chi^2$/NDF:2642412.2/36

Out: 3379.316+/-0.490 $\chi^2$/NDF:3138232.9/41

All: 3437.981+/-0.356 $\chi^2$/NDF: 5810849.3/78




Right In: -670.819+/-448.500 $\chi^2$/NDF: 11.9/15

Left Out: 490.744+/-268.679 $\chi^2$/NDF:34.8/22

Right Out: -290.311+/-434.425 $\chi^2$/NDF: 16.9/18

Left In: -420.189+/-274.809 $\chi^2$/NDF:17.3/20

Left: 45.551+/-192.115 $\chi^2$/NDF: 57.7/43

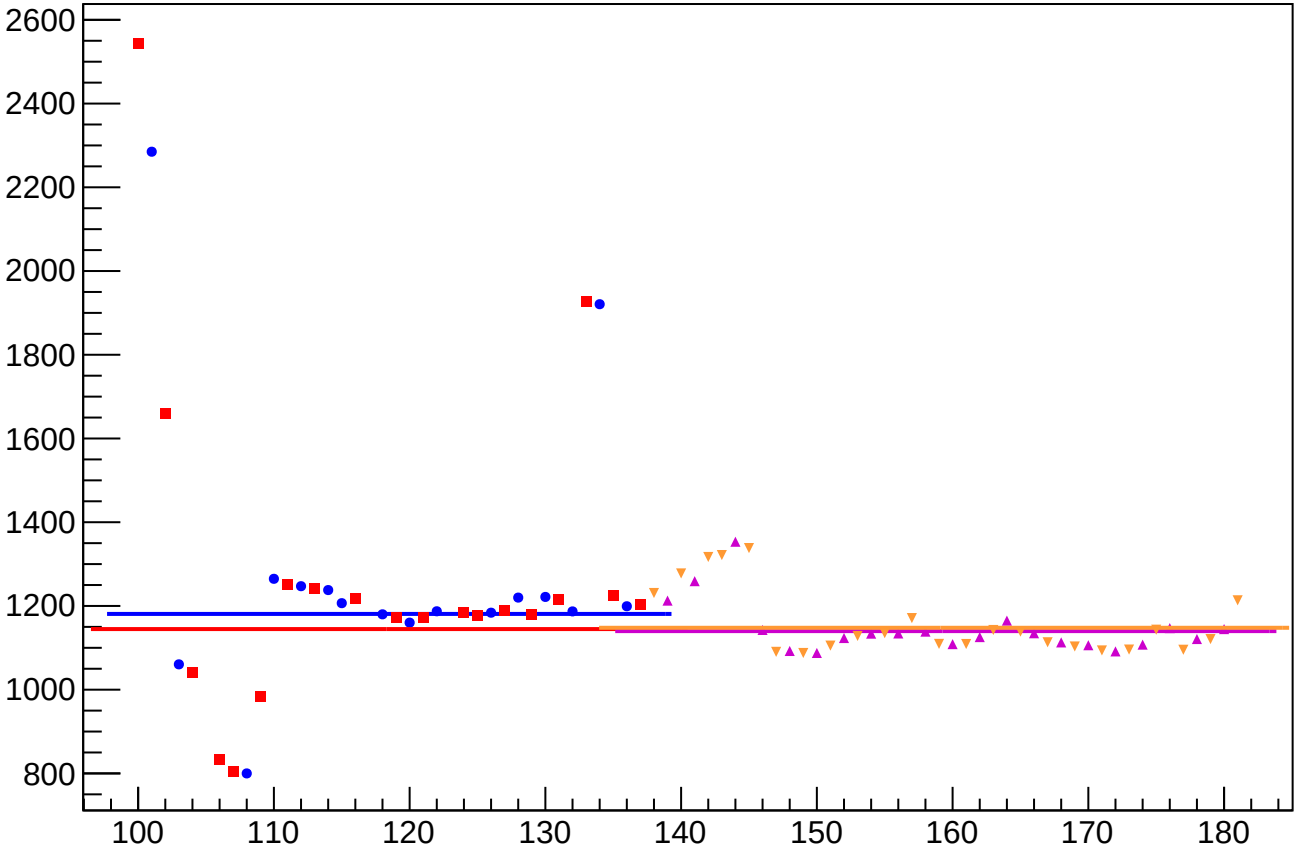
Right: -474.501+/-312.042 $\chi^2$/NDF: 29.2/34

In: -488.601+/-234.321 $\chi^2$/NDF:29.4/36

Out: 274.645+/-228.507 $\chi^2$/NDF:54.1/41

All: -97.392+/-163.596 $\chi^2$/NDF: 88.9/78

# dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected




Right In: 1180.955+/-0.317 $\chi^2$/NDF: 621878.6/15

Left Out: 1147.856+/-0.190 $\chi^2$/NDF:139074.8/22

Right Out: 1144.777+/-0.307 $\chi^2$/NDF: 497730.6/18

Left In: 1139.891+/-0.194 $\chi^2$/NDF:84432.6/20

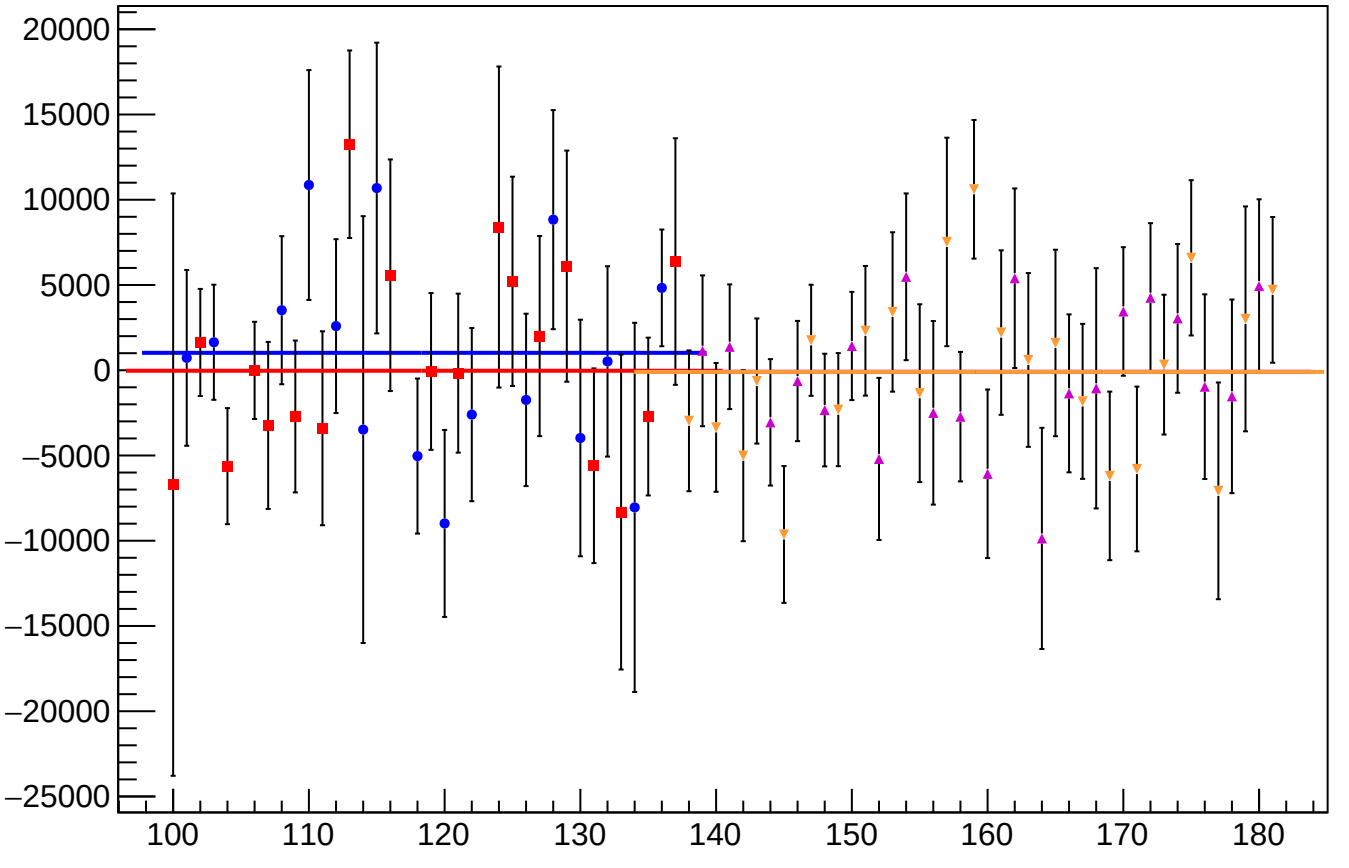
Left: 1143.963+/-0.136 $\chi^2$/NDF: 224366.4/43

Right: 1162.281+/-0.221 $\chi^2$/NDF: 1126326.7/34

In: 1151.100+/-0.166 $\chi^2$/NDF:718501.1/36

Out: 1147.003+/-0.162 $\chi^2$/NDF:636878.1/41

All: 1149.000+/-0.116 $\chi^2$/NDF: 1355692.6/78




Right In: 1021.047+/-1302.431 $\chi^2$/NDF: 13.9/15

Left Out: -98.244+/-918.197 $\chi^2$/NDF:26.4/22

Right Out: -30.135+/-1130.743 $\chi^2$/NDF: 16.1/18

Left In: -88.993+/-950.755 $\chi^2$/NDF:13.1/20

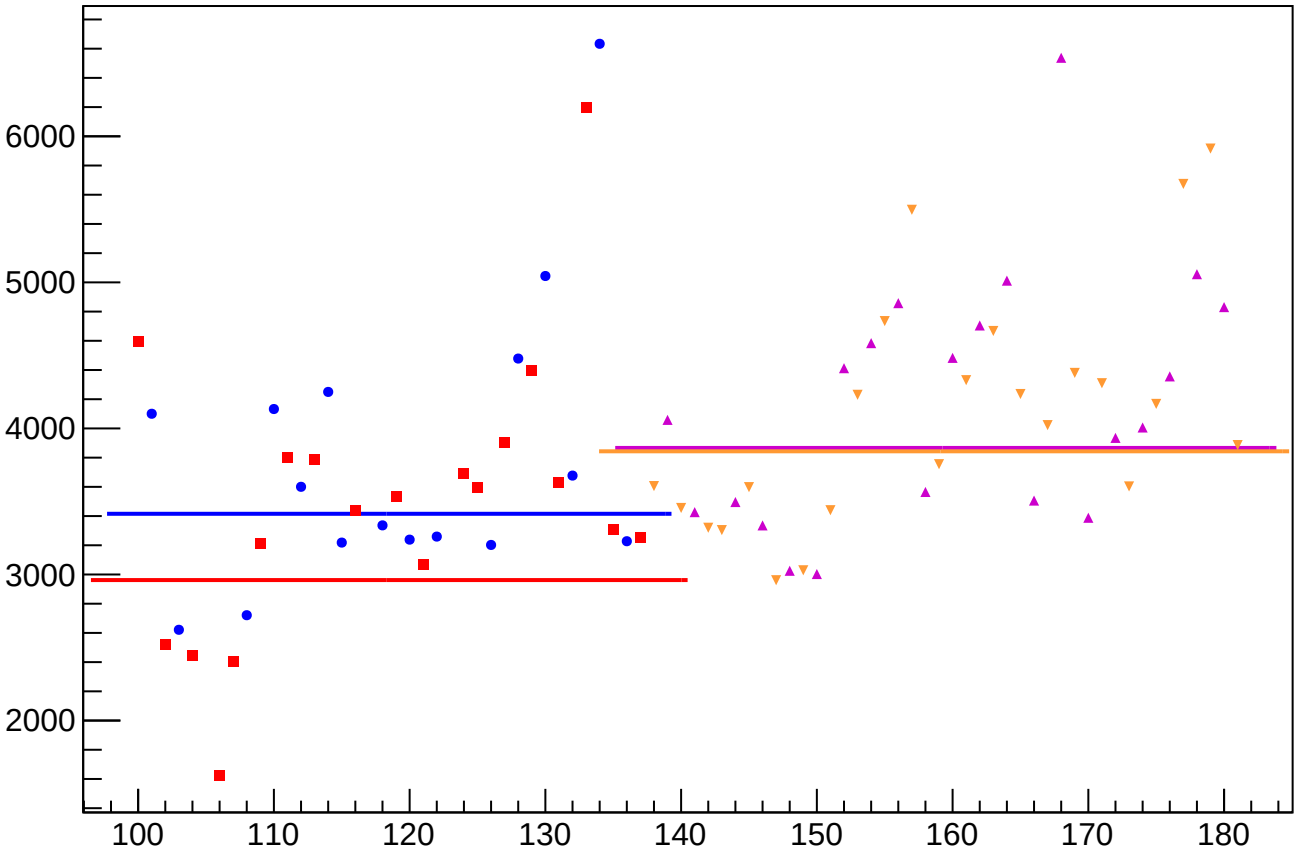
Left: -93.780+/-660.474 $\chi^2$/NDF: 39.5/43

Right: 421.650+/-853.851 $\chi^2$/NDF: 30.4/34

In: 296.893+/-767.918 $\chi^2$/NDF:27.4/36

Out: -71.179+/-712.790 $\chi^2$/NDF:42.5/41

All: 99.172+/-522.422 $\chi^2$/NDF: 70.1/78




Right In: 3415.595+/-0.921 $\chi^2$/NDF: 592344.0/15

Left Out: 3843.346+/-0.649 $\chi^2$/NDF:1118361.4/22

Right Out: 2961.798+/-0.800 $\chi^2$/NDF: 1169257.4/18

Left In: 3866.444+/-0.672 $\chi^2$/NDF:1179676.7/20

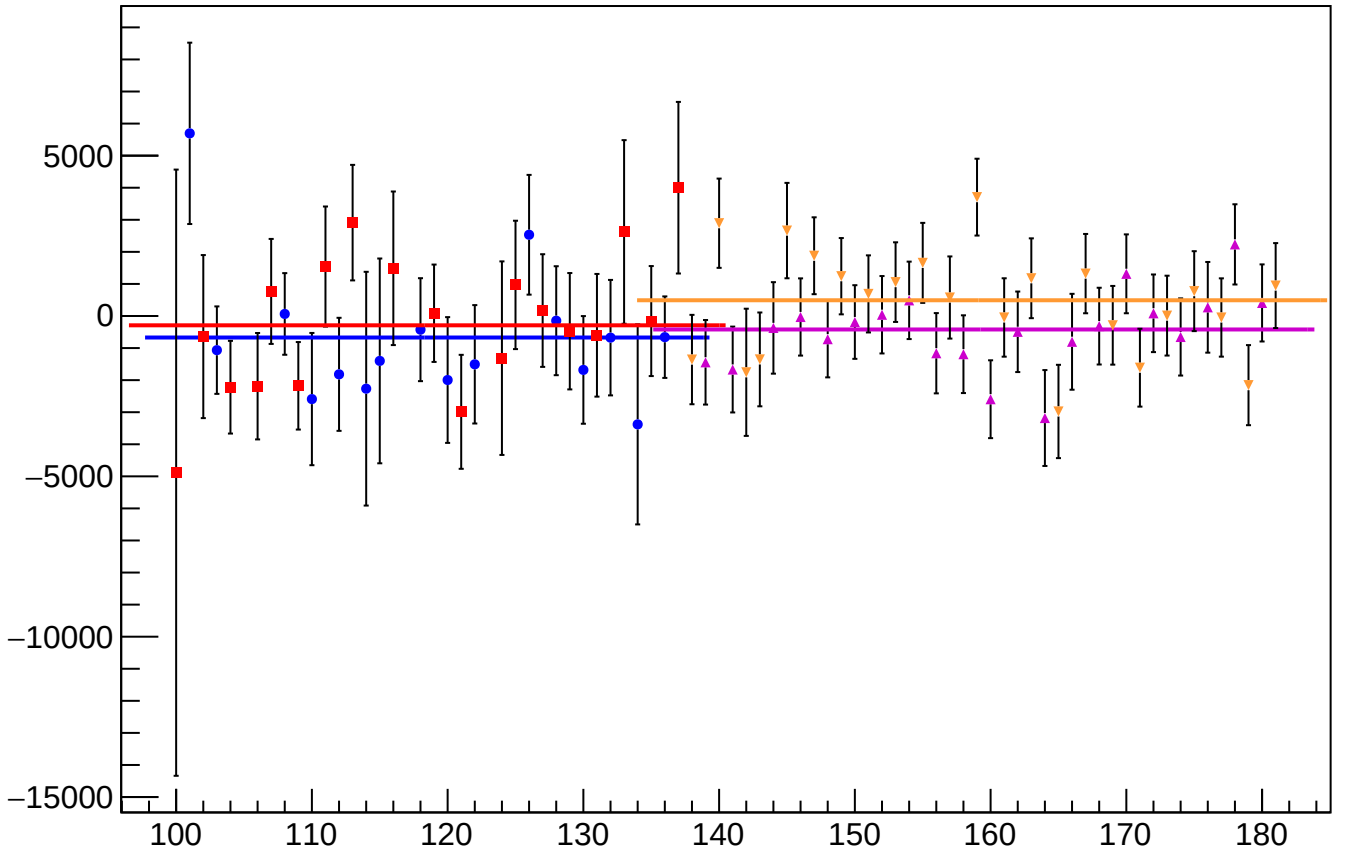
Left: 3854.493+/-0.467 $\chi^2$/NDF: 2298648.8/43

Right: 3156.834+/-0.604 $\chi^2$/NDF: 1900046.9/34

In: 3709.714+/-0.543 $\chi^2$/NDF:1928362.4/36

Out: 3493.045+/-0.504 $\chi^2$/NDF:3020181.8/41

All: 3593.324+/-0.369 $\chi^2$/NDF: 5034073.0/78




Right In: -670.824+/-448.500 $\chi^2$/NDF: 11.9/15

Left Out: 490.749+/-268.679 $\chi^2$/NDF:34.8/22

Right Out: -290.316+/-434.425 $\chi^2$/NDF: 16.9/18

Left In: -420.188+/-274.809 $\chi^2$/NDF:17.3/20

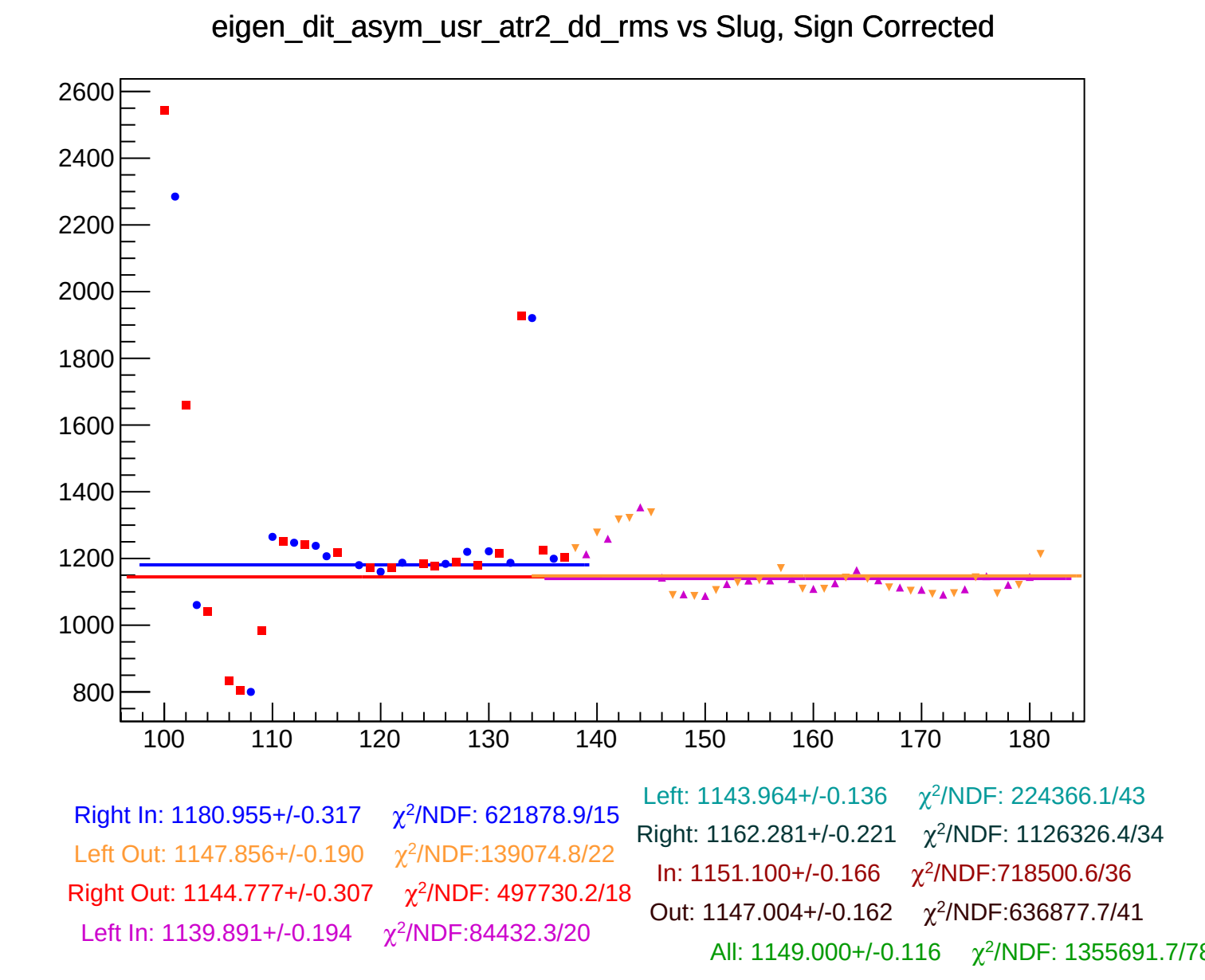
Left: 45.554+/-192.115 $\chi^2$/NDF: 57.7/43

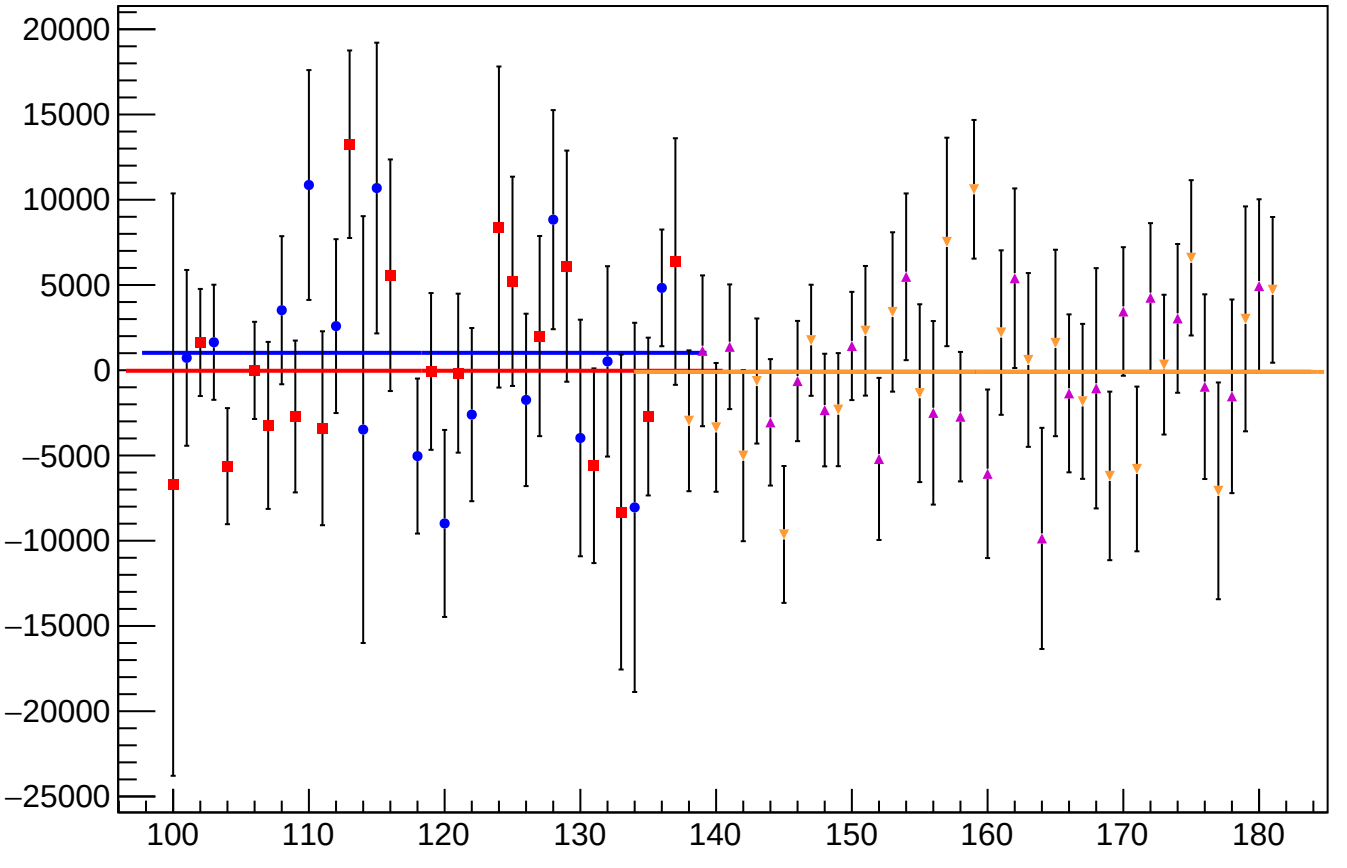
Right: -474.506+/-312.042 $\chi^2$/NDF: 29.2/34

In: -488.601+/-234.321 $\chi^2$/NDF:29.4/36

Out: 274.647+/-228.507 $\chi^2$/NDF:54.1/41

All: -97.392+/-163.596 $\chi^2$/NDF: 88.9/78


eigen_dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
100
110
120
130
140
150
160
170
180
Right In: 1180.955+/-0.317 χ²/NDF: 621878.9/15
Left Out: 1147.856+/-0.190 χ²/NDF:139074.8/22
Right Out: 1144.777+/-0.307 χ²/NDF: 497730.2/18
Left In: 1139.891+/-0.194 χ²/NDF:84432.3/20
Left: 1143.964+/-0.136 χ²/NDF: 224366.1/43
Right: 1162.281+/-0.221 χ²/NDF: 1126326.4/34
In: 1151.100+/-0.166 χ²/NDF:718500.6/36
Out: 1147.004+/-0.162 χ²/NDF:636877.7/41
All: 1149.000+/-0.116 χ²/NDF: 1355691.7/78




Right In: 1021.029+/-1302.430 $\chi^2$/NDF: 13.9/15

Left Out: -98.243+/-918.199 $\chi^2$/NDF:26.4/22

Right Out: -30.142+/-1130.741 $\chi^2$/NDF: 16.1/18

Left In: -88.992+/-950.756 $\chi^2$/NDF:13.1/20

Left: -93.778+/-660.475 $\chi^2$/NDF: 39.5/43

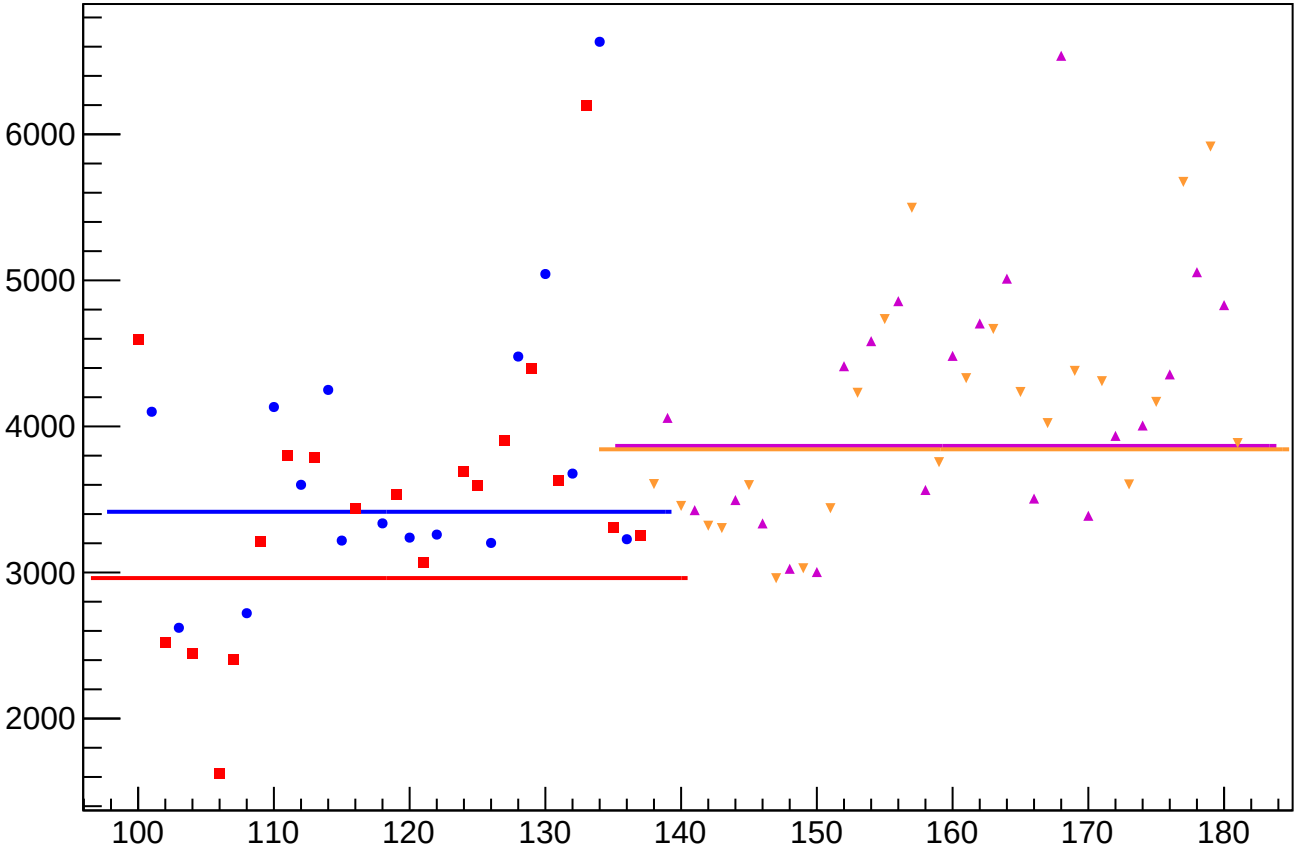
Right: 421.639+/-853.849 $\chi^2$/NDF: 30.4/34

In: 296.889+/-767.918 $\chi^2$/NDF:27.4/36

Out: -71.181+/-712.790 $\chi^2$/NDF:42.5/41

All: 99.169+/-522.422 $\chi^2$/NDF: 70.1/78

asym_usr_atr2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3415.591+/-0.921 $\chi^2$/NDF: 592339.1/15

Left Out: 3843.352+/-0.649 $\chi^2$/NDF:1118363.0/22

Right Out: 2961.793+/-0.800 $\chi^2$/NDF: 1169257.0/18

Left In: 3866.449+/-0.672 $\chi^2$/NDF:1179680.2/20

Left: 3854.498+/-0.467 $\chi^2$/NDF: 2298653.9/43

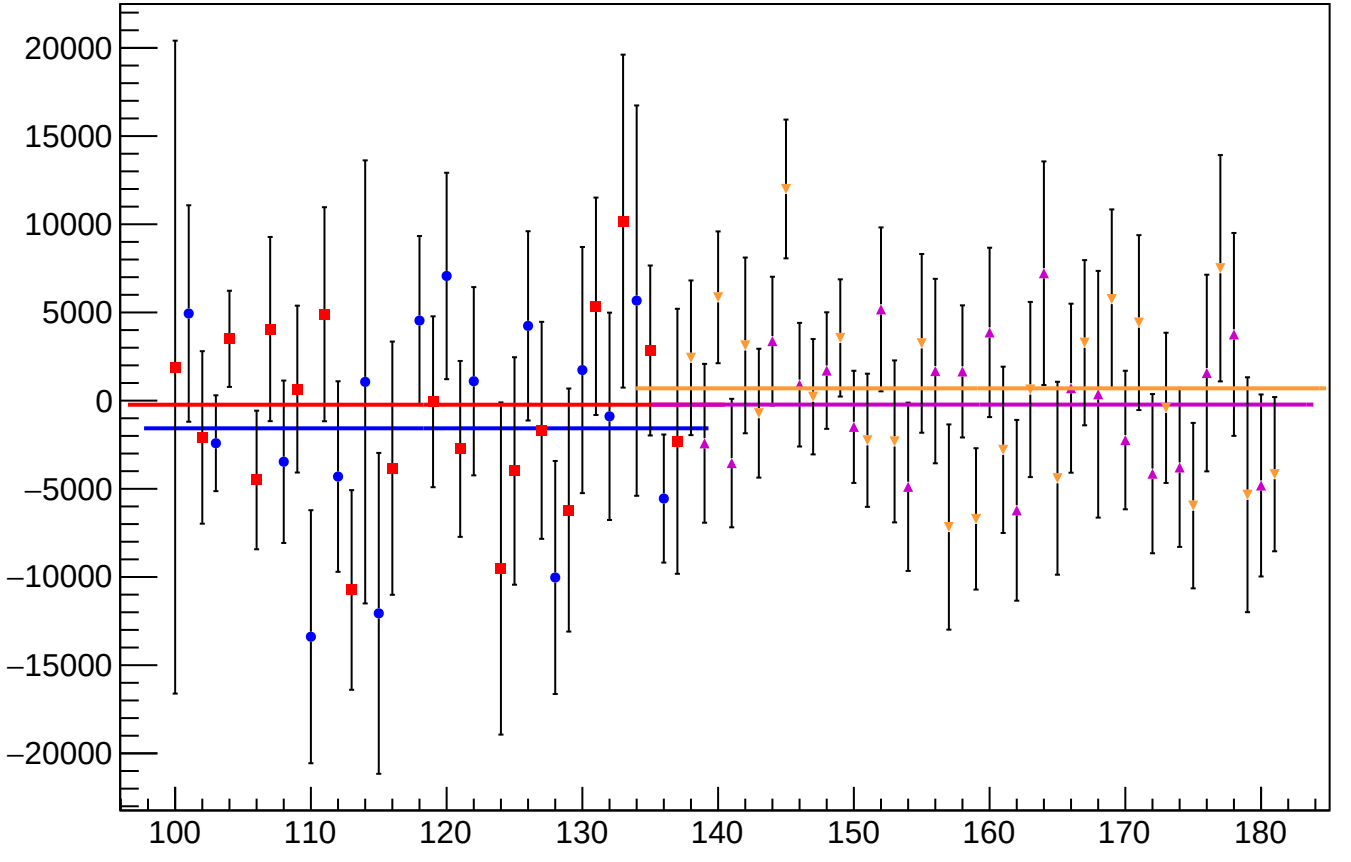
Right: 3156.830+/-0.604 $\chi^2$/NDF: 1900042.9/34

In: 3709.716+/-0.543 $\chi^2$/NDF:1928367.2/36

Out: 3493.045+/-0.504 $\chi^2$/NDF:3020200.9/41

All: 3593.325+/-0.369 $\chi^2$/NDF: 5034098.1/78

# asym_usr_atr2_dd_mean vs Slug, Sign Corrected




Right In: -1569.809+/-1312.937 $\chi^2$/NDF: 14.5/15

Left Out: 697.608+/-920.790 $\chi^2$/NDF:26.5/22

Right Out: -231.125+/-1224.318 $\chi^2$/NDF: 13.2/18

Left In: -224.423+/-952.110 $\chi^2$/NDF:11.9/20

Left: 252.008+/-661.893 $\chi^2$/NDF: 38.9/43

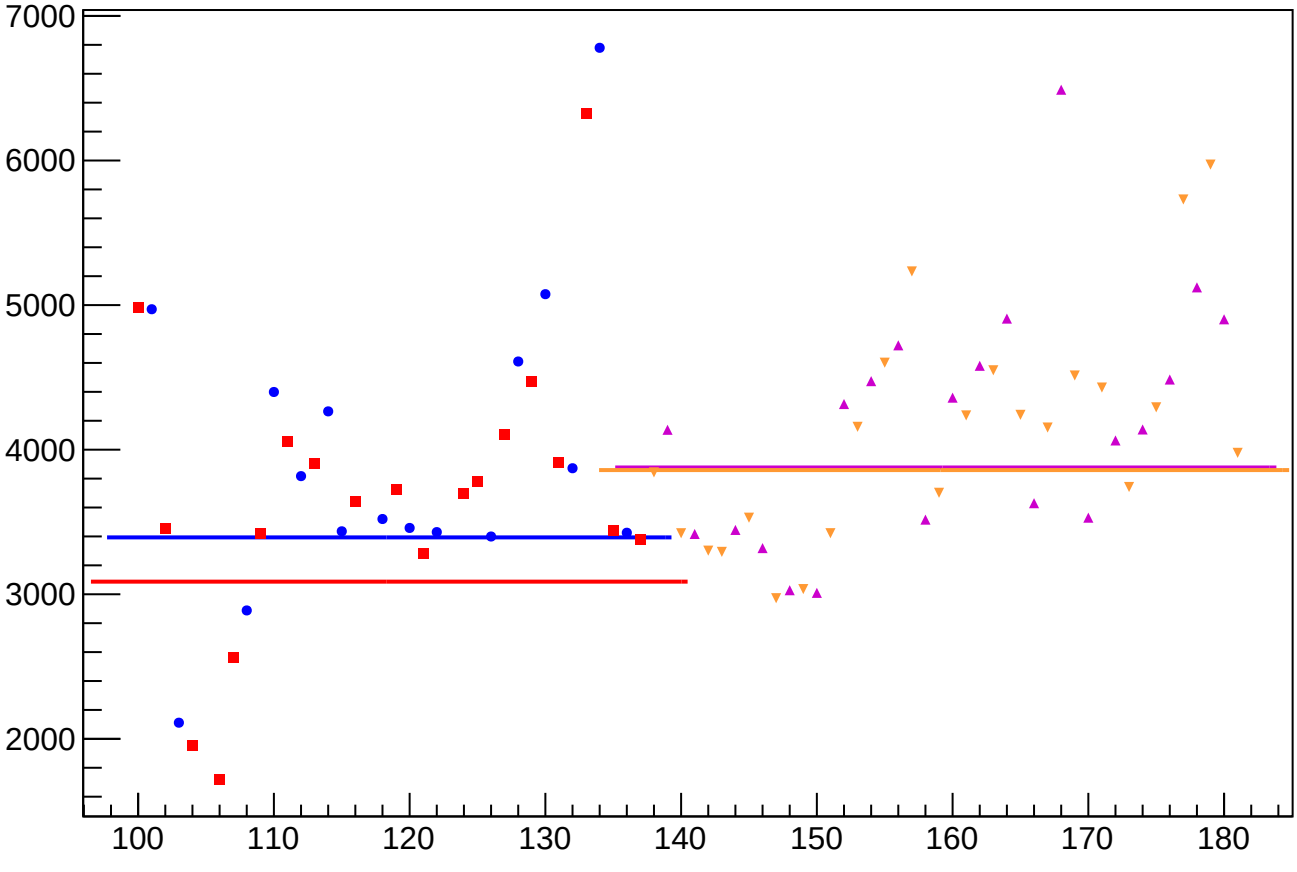
Right: -853.767+/-895.415 $\chi^2$/NDF: 28.2/34

In: -688.097+/-770.774 $\chi^2$/NDF:27.0/36

Out: 362.076+/-735.895 $\chi^2$/NDF:40.1/41

All: -138.713+/-532.260 $\chi^2$/NDF: 68.1/78

# asym_usr_atr2_dd_rms vs Slug, Sign Corrected




Right In: 3393.365+/-0.928 $\chi^2$/NDF: 1048707.6/15

Left Out: 3858.918+/-0.651 $\chi^2$/NDF:1097135.7/22

Right Out: 3087.307+/-0.851 $\chi^2$/NDF: 1328355.8/18

Left In: 3876.910+/-0.673 $\chi^2$/NDF:1135239.0/20

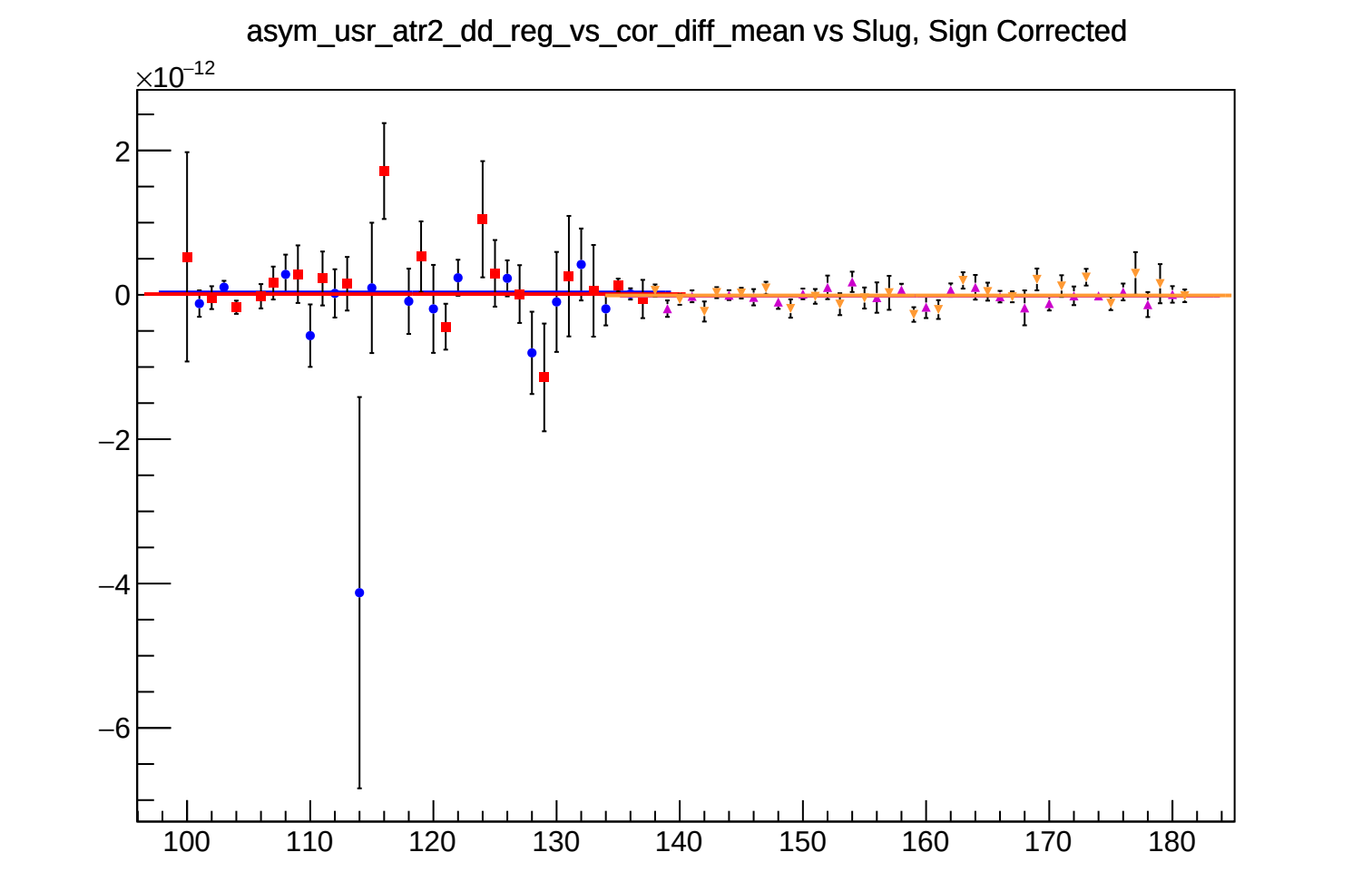
Left: 3867.613+/-0.468 $\chi^2$/NDF: 2232743.8/43

Right: 3227.090+/-0.627 $\chi^2$/NDF: 2436107.0/34

In: 3710.261+/-0.545 $\chi^2$/NDF:2361731.8/36

Out: 3574.108+/-0.517 $\chi^2$/NDF:2943889.7/41

All: 3638.615+/-0.375 $\chi^2$/NDF: 5338460.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:31.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:11.4/20

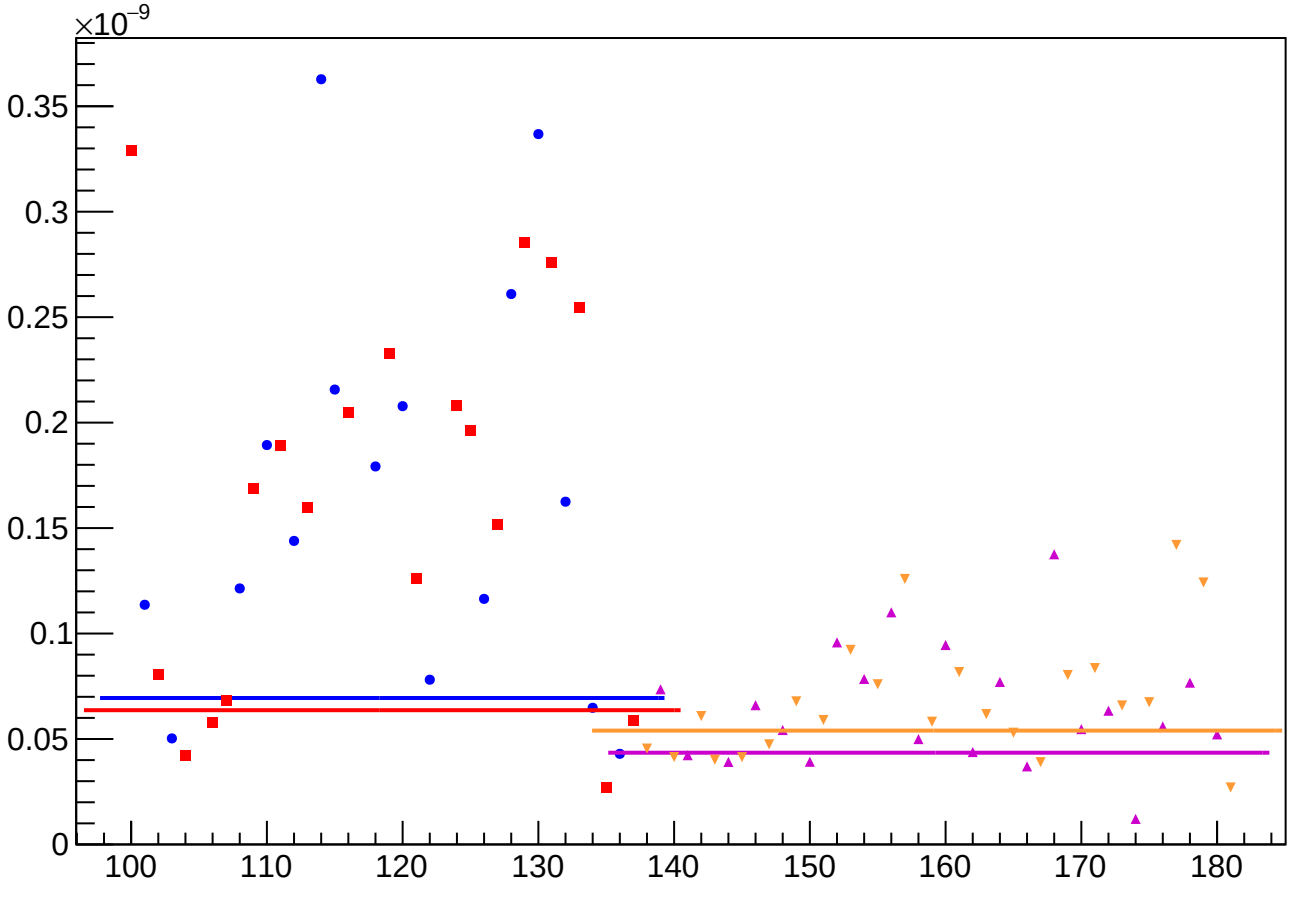
Left: -0.000+/-0.000 $\chi^2$/NDF: 43.0/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:24.0/36

Out: -0.000+/-0.000 $\chi^2$/NDF:53.6/41

All: -0.000+/-0.000 $\chi^2$/NDF: 77.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1729471.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1490241.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2250342.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2762923.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4493742.2/43

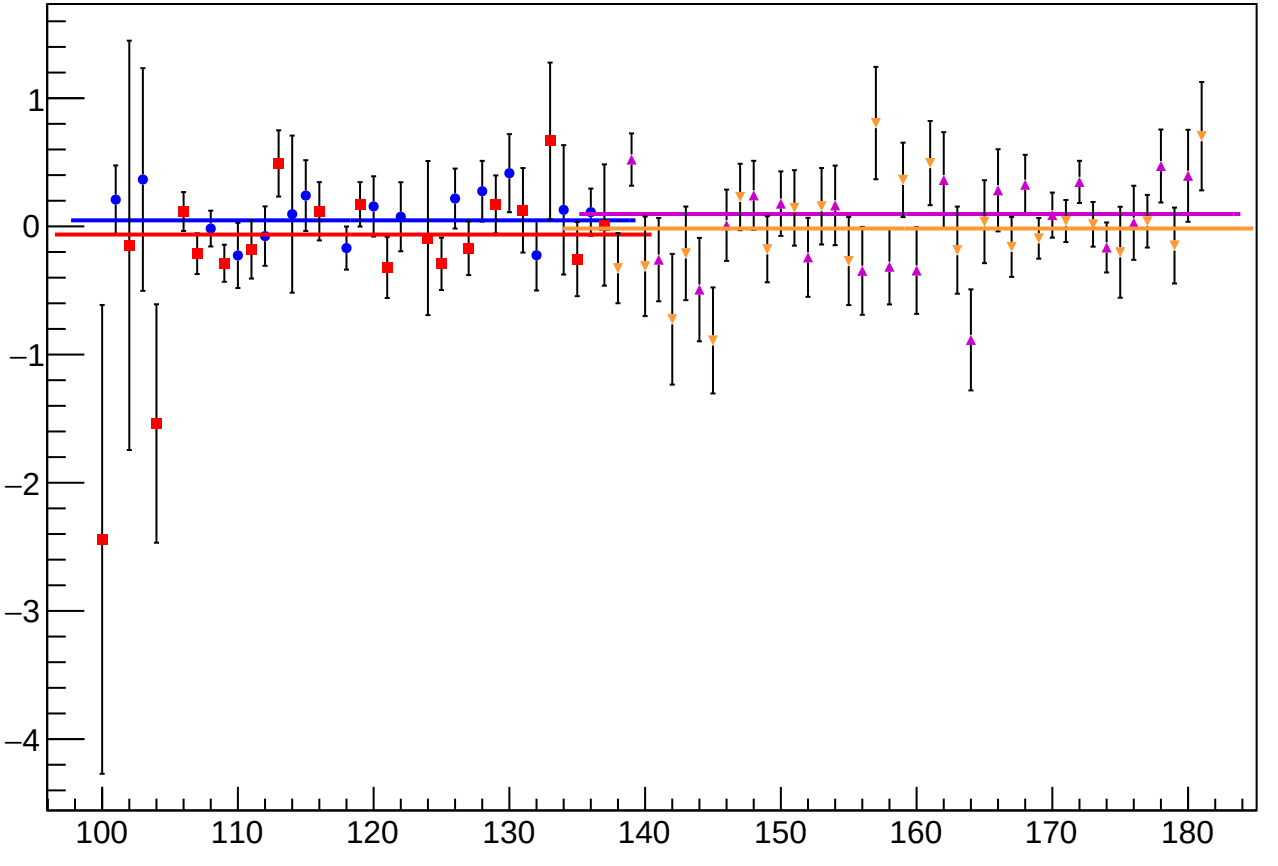
Right: 0.000+/-0.000 $\chi^2$/NDF: 3993621.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4970054.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:3804116.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8949169.2/78

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.047+/-0.060 $\chi^2$/NDF: 8.6/15

Left Out: -0.017+/-0.056 $\chi^2$/NDF:23.2/22

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.096+/-0.058 $\chi^2$/NDF:29.3/20

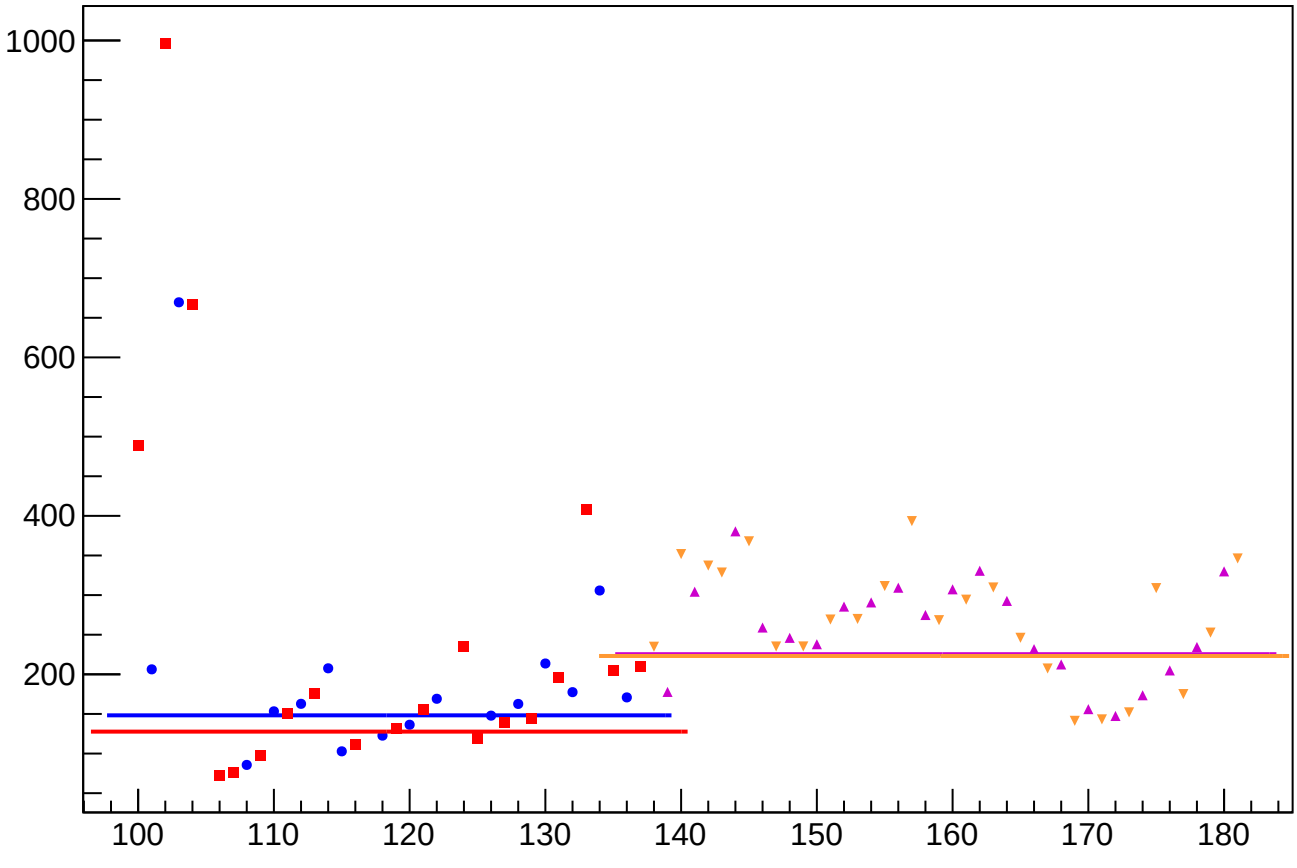
Left: 0.038+/-0.040 $\chi^2$/NDF: 54.5/43

Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.073+/-0.042 $\chi^2$/NDF:38.2/36

Out: -0.041+/-0.039 $\chi^2$/NDF:45.7/41

All: 0.013+/-0.028 $\chi^2$/NDF: 87.9/78




Right In: 148.240+/-0.042 $\chi^2$/NDF: 1710035.6/15

Left Out: 223.154+/-0.040 $\chi^2$/NDF:3324361.6/22

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841780.7/18

Left In: 225.408+/-0.041 $\chi^2$/NDF:2332921.5/20

Left: 224.247+/-0.028 $\chi^2$/NDF: 5658858.8/43

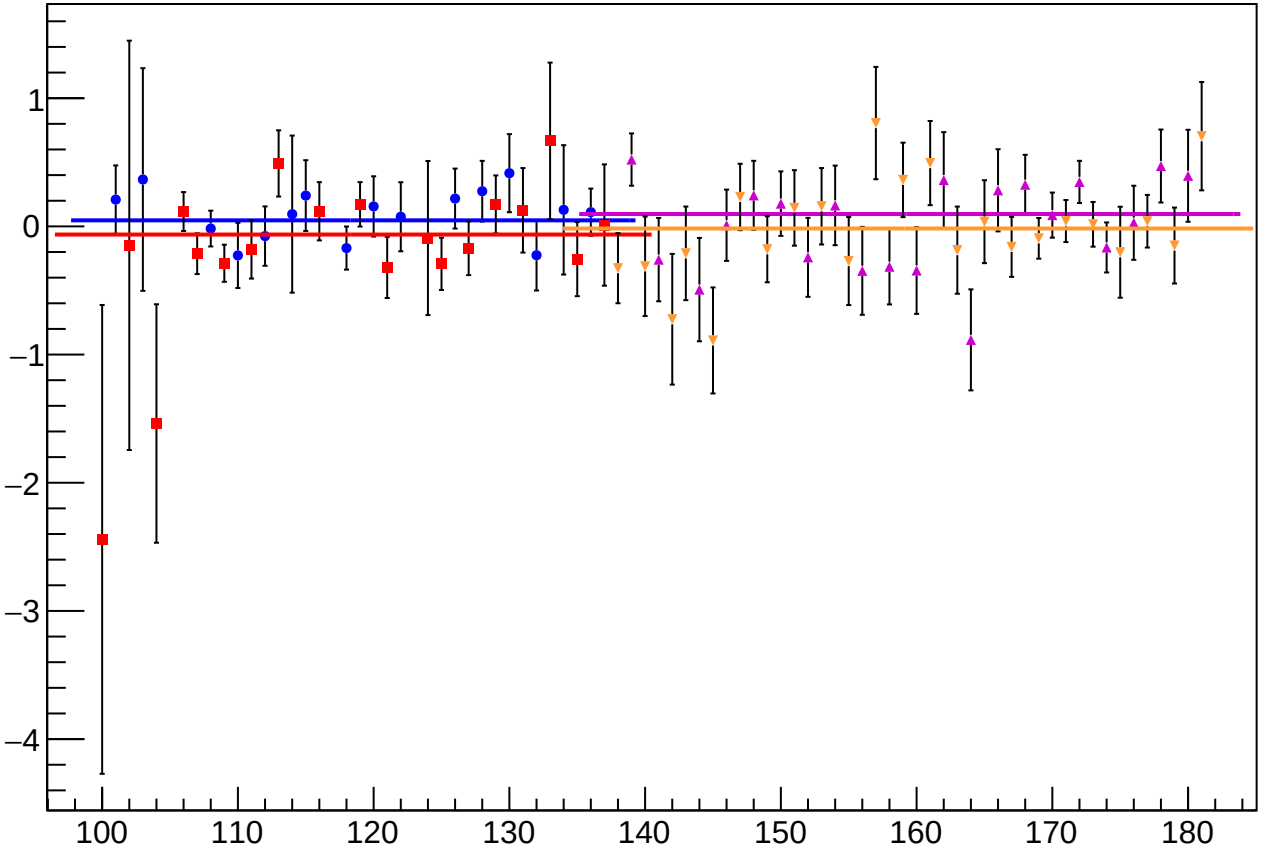
Right: 137.004+/-0.029 $\chi^2$/NDF: 4680006.1/34

In: 188.400+/-0.029 $\chi^2$/NDF:5762991.6/36

Out: 174.336+/-0.028 $\chi^2$/NDF:9146719.1/41

All: 180.936+/-0.020 $\chi^2$/NDF: 15031202.8/78

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.047+/-0.060 $\chi^2$/NDF: 8.6/15

Left Out: -0.017+/-0.056 $\chi^2$/NDF:23.2/22

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.096+/-0.058 $\chi^2$/NDF:29.3/20

Left: 0.038+/-0.040 $\chi^2$/NDF: 54.5/43

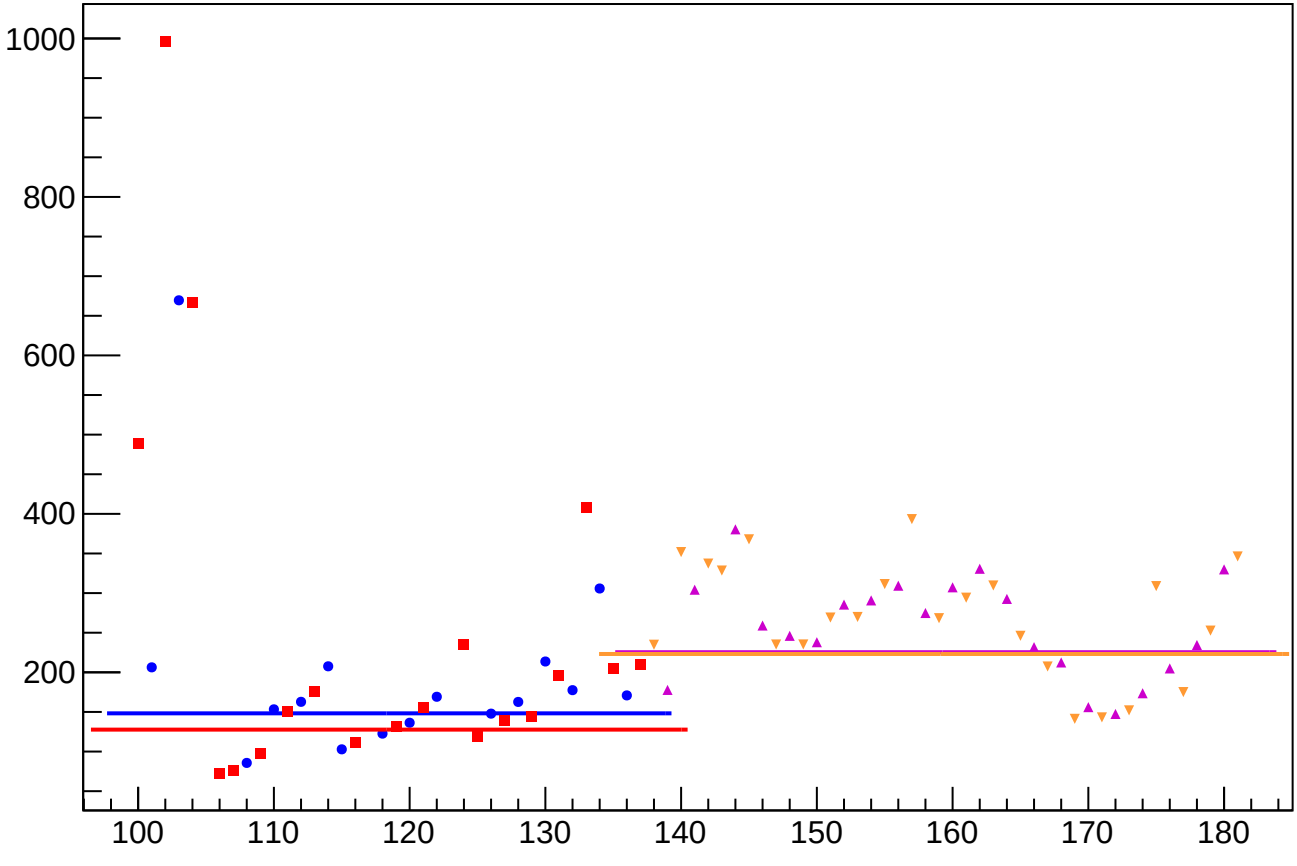
Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.073+/-0.042 $\chi^2$/NDF:38.2/36

Out: -0.041+/-0.039 $\chi^2$/NDF:45.7/41

All: 0.013+/-0.028 $\chi^2$/NDF: 87.9/78

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.240+/-0.042 $\chi^2$/NDF: 1710035.6/15

Left Out: 223.154+/-0.040 $\chi^2$/NDF:3324361.6/22

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841780.7/18

Left In: 225.408+/-0.041 $\chi^2$/NDF:2332921.5/20

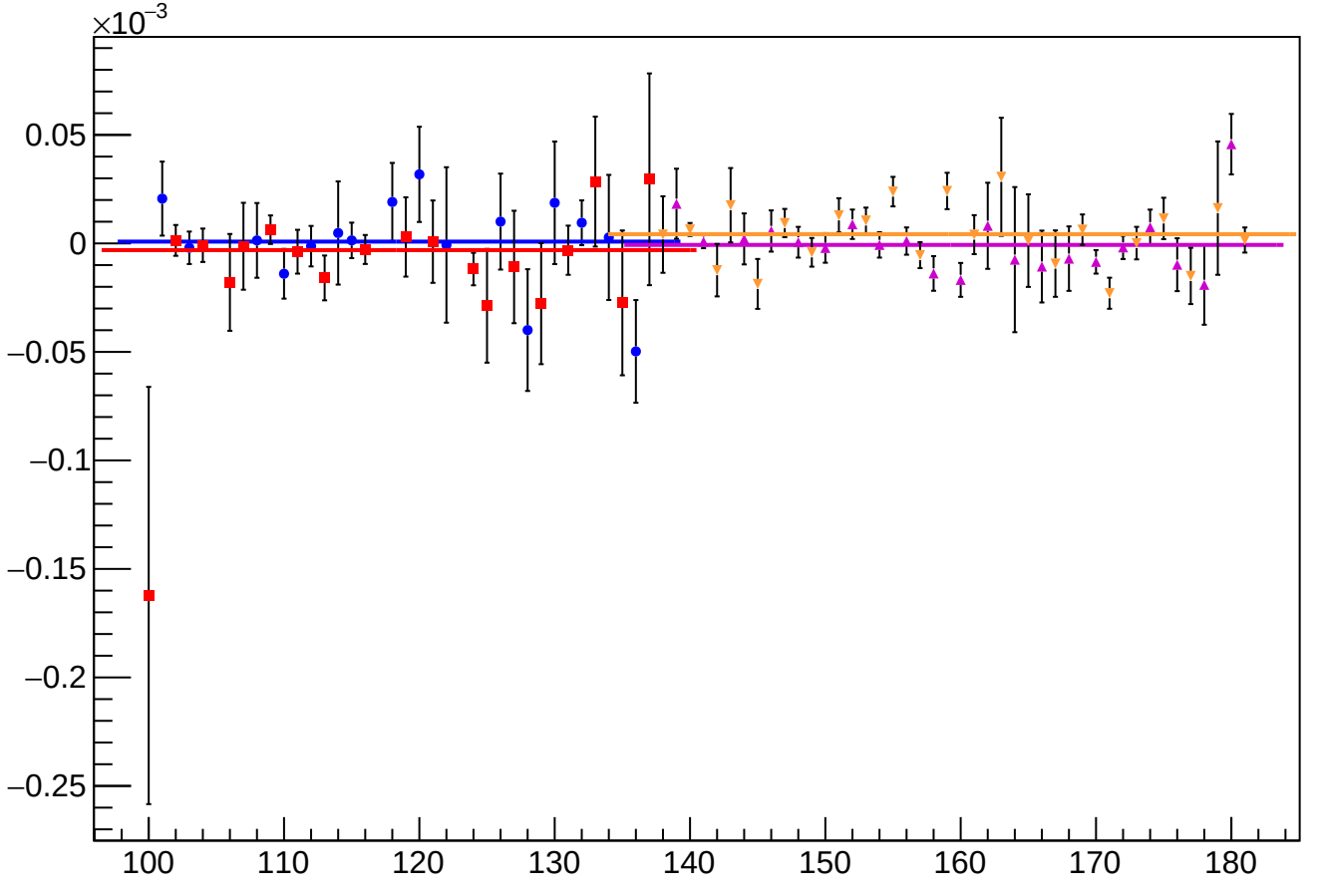
Left: 224.247+/-0.028 $\chi^2$/NDF: 5658858.8/43

Right: 137.004+/-0.029 $\chi^2$/NDF: 4680006.1/34

In: 188.400+/-0.029 $\chi^2$/NDF:5762991.6/36

Out: 174.336+/-0.028 $\chi^2$/NDF:9146719.1/41

All: 180.936+/-0.020 $\chi^2$/NDF: 15031202.8/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:47.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.8/20

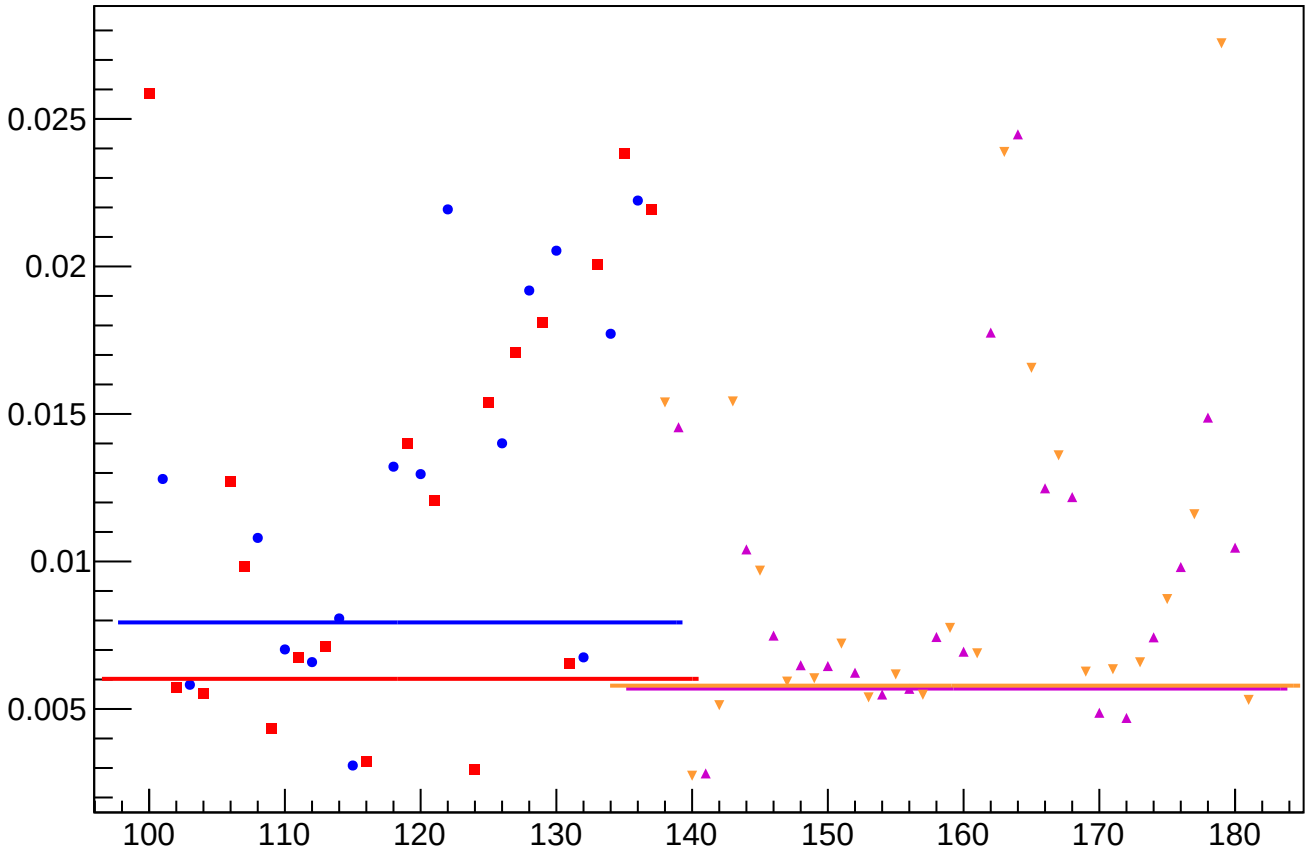
Left: 0.000+/-0.000 $\chi^2$/NDF: 80.5/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:42.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:66.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 110.4/78




Right In: 0.008+/-0.000 $\chi^2$/NDF: 3577687.8/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:7345436.9/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 4009592.0/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:6302173.5/20

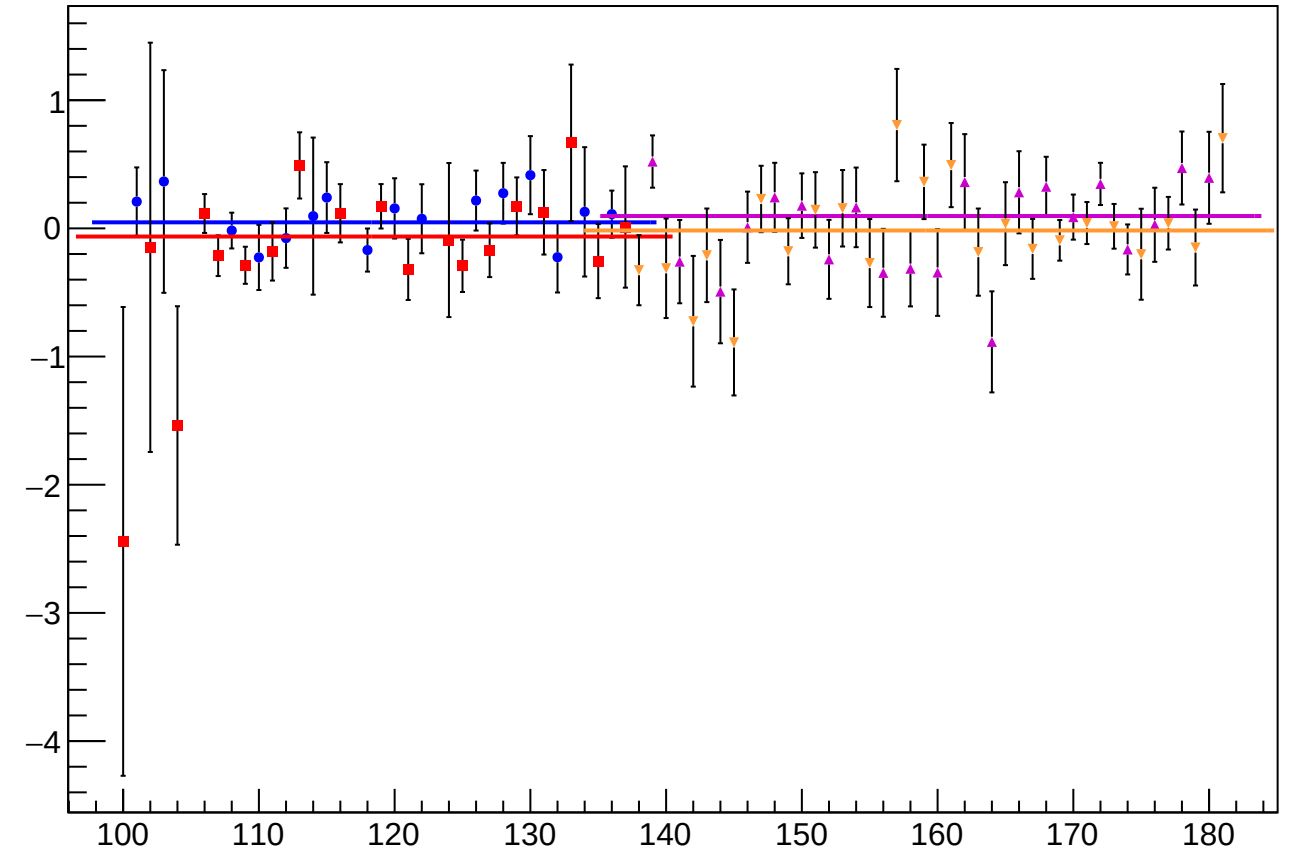
Left: 0.006+/-0.000 $\chi^2$/NDF: 13651531.3/43

Right: 0.007+/-0.000 $\chi^2$/NDF: 7973863.6/34

In: 0.006+/-0.000 $\chi^2$/NDF:10571991.6/36

Out: 0.006+/-0.000 $\chi^2$/NDF:11366420.7/41

All: 0.006+/-0.000 $\chi^2$/NDF: 21966606.4/78




Right In: 0.047+/-0.060 $\chi^2$/NDF: 8.6/15

Left Out: -0.017+/-0.056 $\chi^2$/NDF:23.2/22

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.096+/-0.058 $\chi^2$/NDF:29.3/20

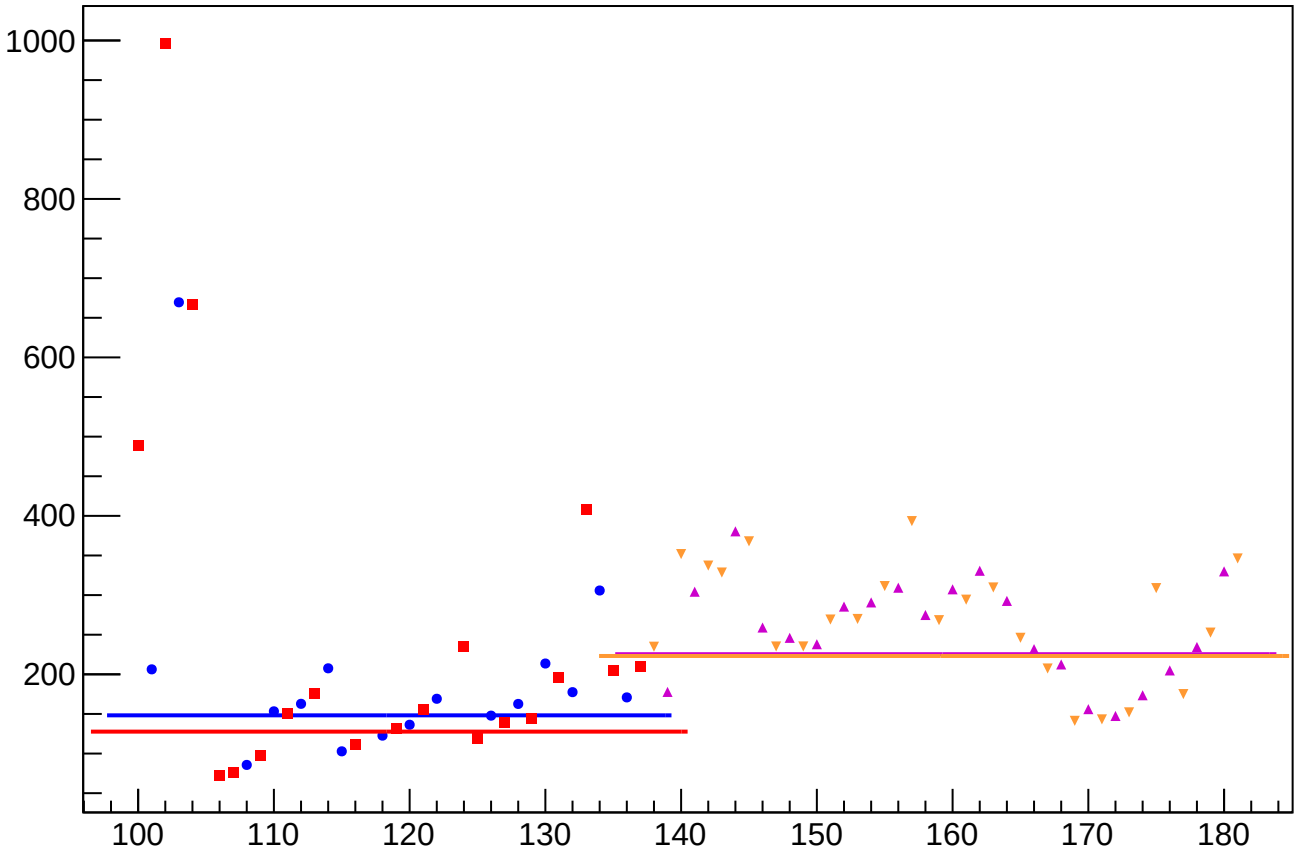
Left: 0.038+/-0.040 $\chi^2$/NDF: 54.5/43

Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.073+/-0.042 $\chi^2$/NDF:38.2/36

Out: -0.041+/-0.039 $\chi^2$/NDF:45.7/41

All: 0.013+/-0.028 $\chi^2$/NDF: 87.9/78




Right In: 148.238+/-0.042 $\chi^2$/NDF: 1710114.4/15

Left Out: 223.155+/-0.040 $\chi^2$/NDF:3324467.9/22

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841772.5/18

Left In: 225.410+/-0.041 $\chi^2$/NDF:2332962.9/20

Left: 224.249+/-0.028 $\chi^2$/NDF: 5659007.2/43

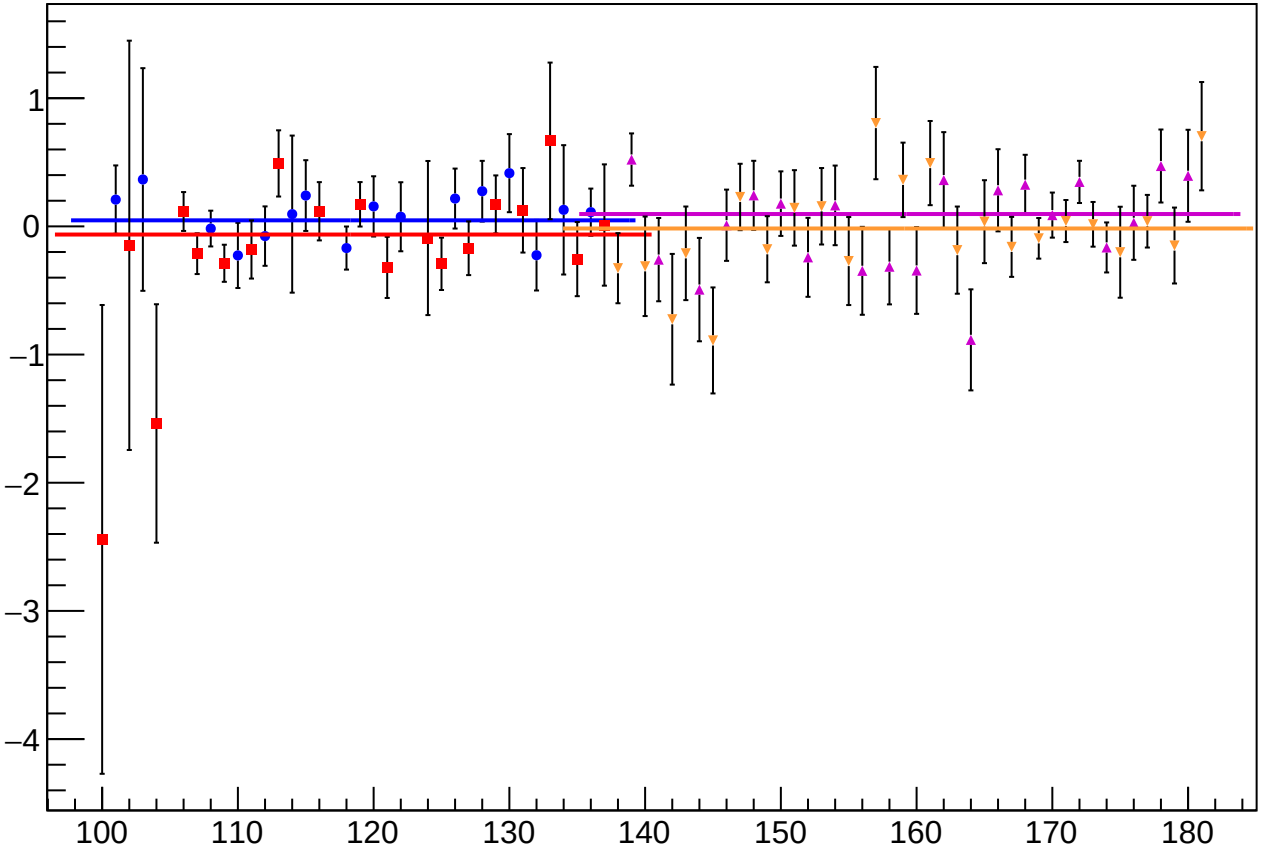
Right: 137.003+/-0.029 $\chi^2$/NDF: 4680047.3/34

In: 188.399+/-0.029 $\chi^2$/NDF:5763302.4/36

Out: 174.336+/-0.028 $\chi^2$/NDF:9146862.7/41

All: 180.936+/-0.020 $\chi^2$/NDF: 15031632.4/78

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.047+/-0.060 $\chi^2$/NDF: 8.6/15

Left Out: -0.017+/-0.056 $\chi^2$/NDF:23.2/22

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.096+/-0.058 $\chi^2$/NDF:29.3/20

Left: 0.038+/-0.040 $\chi^2$/NDF: 54.5/43

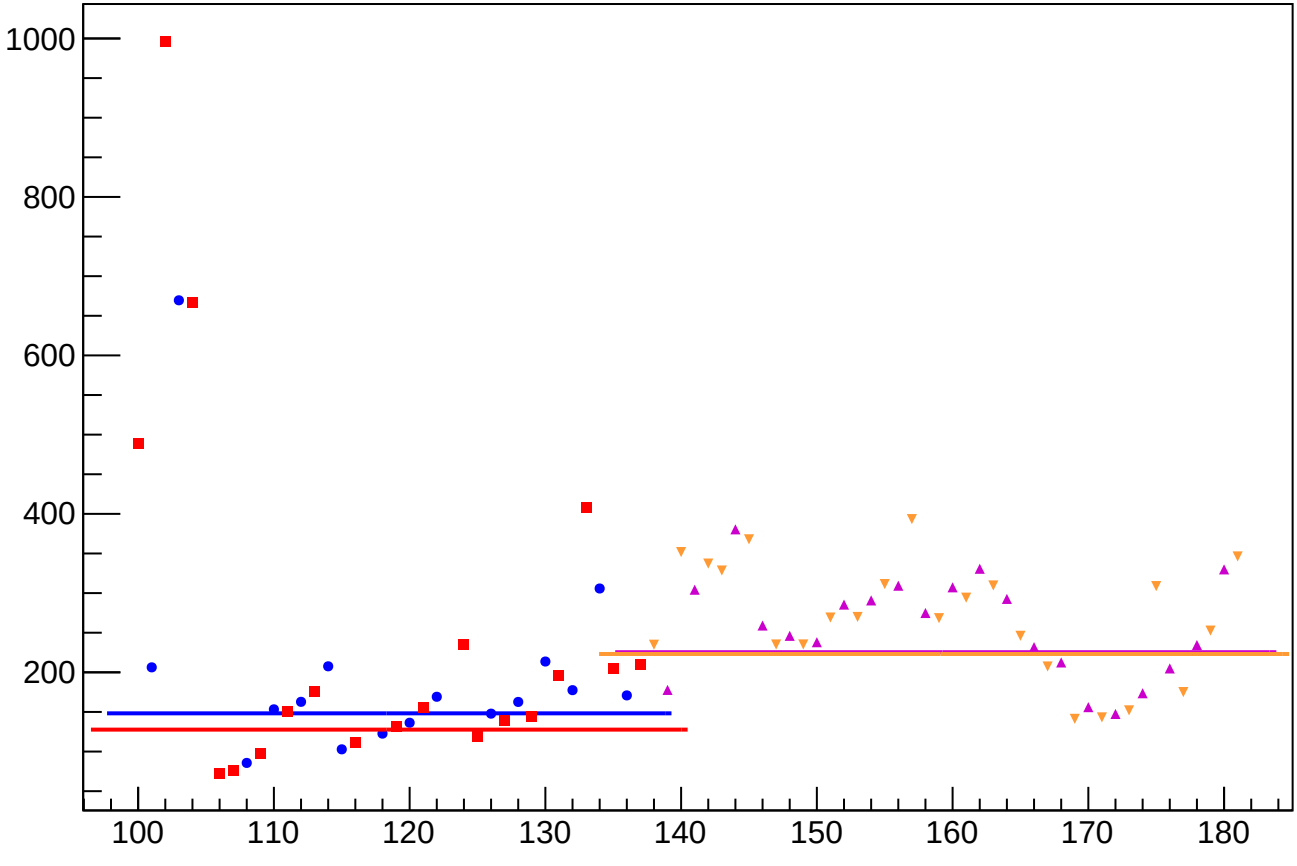
Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.073+/-0.042 $\chi^2$/NDF:38.2/36

Out: -0.041+/-0.039 $\chi^2$/NDF:45.7/41

All: 0.013+/-0.028 $\chi^2$/NDF: 87.9/78

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.238+/-0.042 $\chi^2$/NDF: 1710114.4/15

Left Out: 223.155+/-0.040 $\chi^2$/NDF:3324467.9/22

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841772.5/18

Left In: 225.410+/-0.041 $\chi^2$/NDF:2332962.9/20

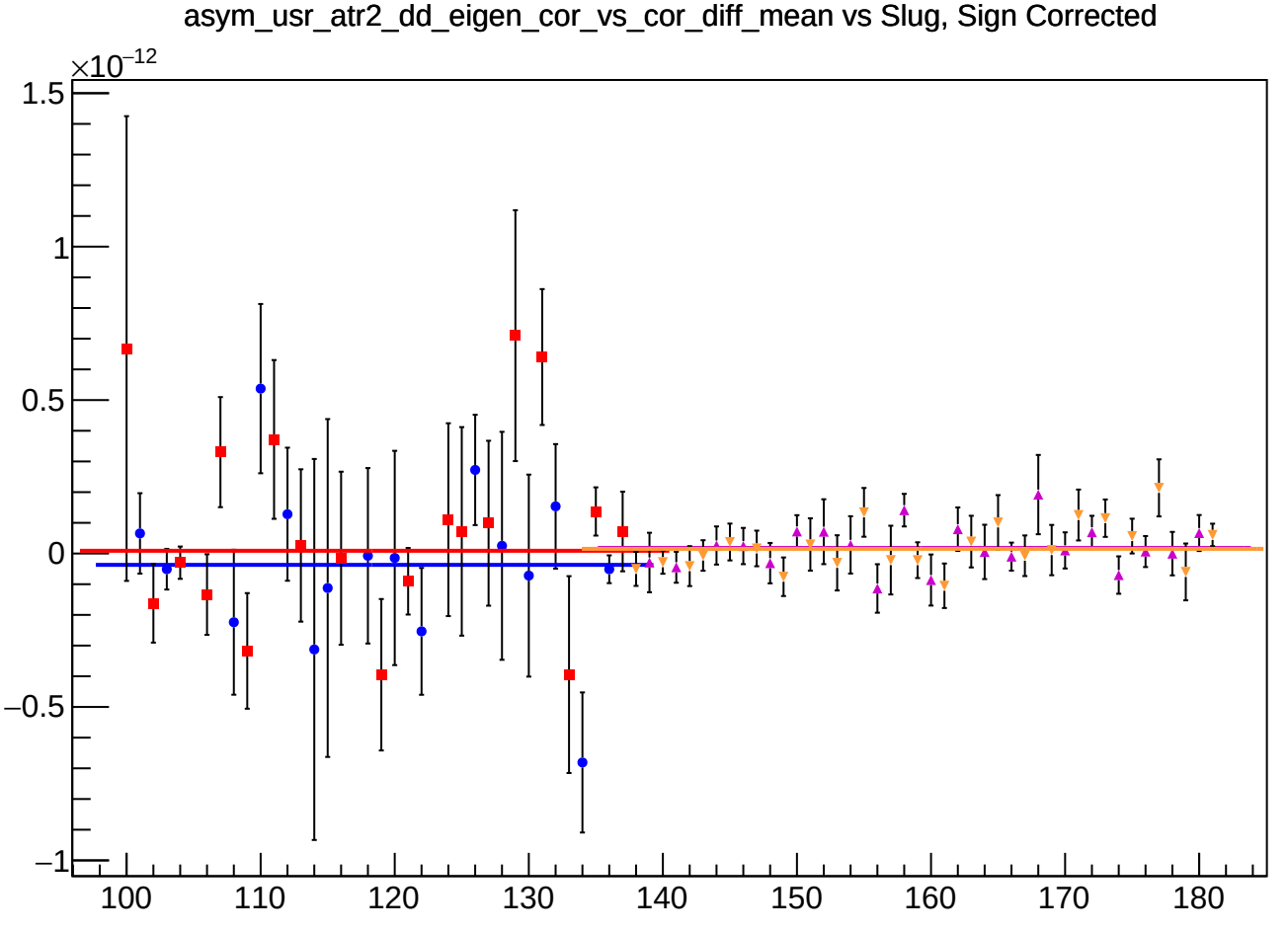
Left: 224.249+/-0.028 $\chi^2$/NDF: 5659007.2/43

Right: 137.003+/-0.029 $\chi^2$/NDF: 4680047.3/34

In: 188.399+/-0.029 $\chi^2$/NDF:5763302.4/36

Out: 174.336+/-0.028 $\chi^2$/NDF:9146862.7/41

All: 180.936+/-0.020 $\chi^2$/NDF: 15031632.4/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 31.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.2/20

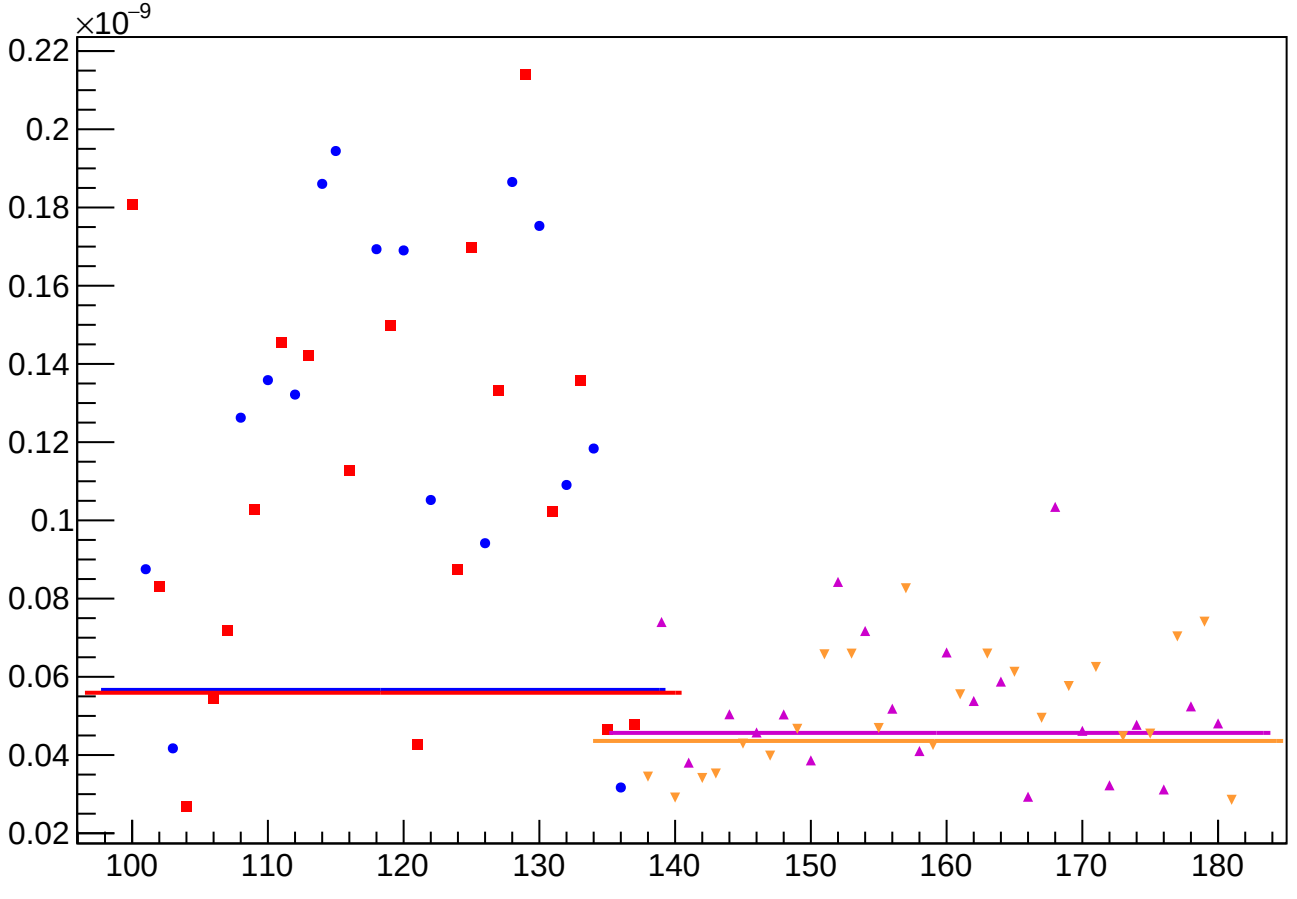
Left: 0.000+/-0.000 $\chi^2$/NDF: 44.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 52.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:42.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:56.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 98.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3113213.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2143015.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2732977.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1885929.9/20

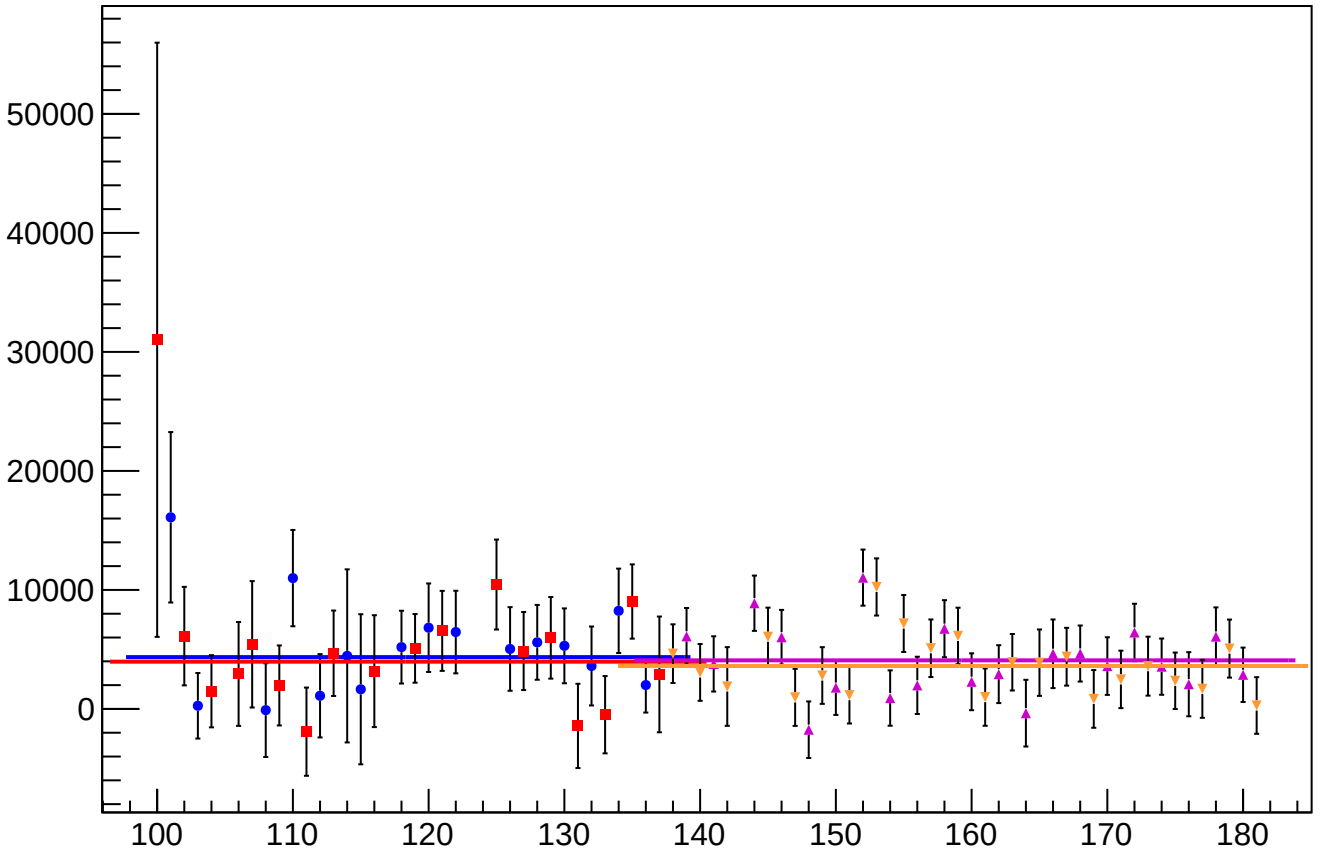
Left: 0.000+/-0.000 $\chi^2$/NDF: 4052145.8/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5846702.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:5195812.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5129924.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10352298.0/78




Right In: 4354.350+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 3607.031+/-522.388 $\chi^2$/NDF:21.3/21

Right Out: 3971.679+/-871.305 $\chi^2$/NDF: 16.2/17

Left In: 4083.188+/-526.707 $\chi^2$/NDF:31.2/20

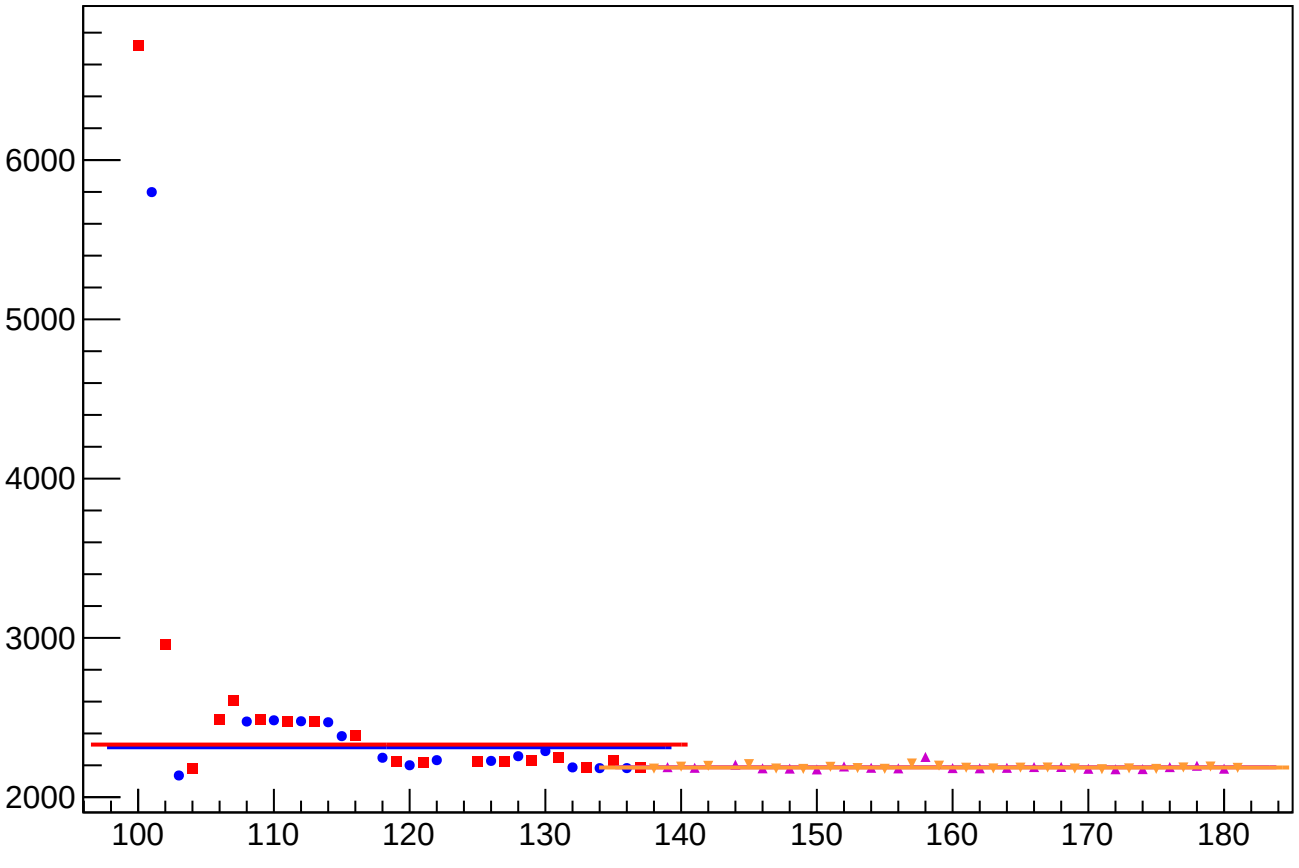
Left: 3843.150+/-370.902 $\chi^2$/NDF: 52.9/42

Right: 4162.171+/-617.462 $\chi^2$/NDF: 29.6/33

In: 4155.291+/-451.280 $\chi^2$/NDF:44.7/36

Out: 3703.449+/-448.034 $\chi^2$/NDF:37.6/39

All: 3927.739+/-317.949 $\chi^2$/NDF: 82.8/76




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512371.8/15

Left Out: 2186.275+/-0.369 $\chi^2$/NDF:648.8/21

Right Out: 2330.200+/-0.616 $\chi^2$/NDF: 151210.5/17

Left In: 2187.845+/-0.372 $\chi^2$/NDF:1919.1/20

Left: 2187.053+/-0.262 $\chi^2$/NDF: 2576.8/42

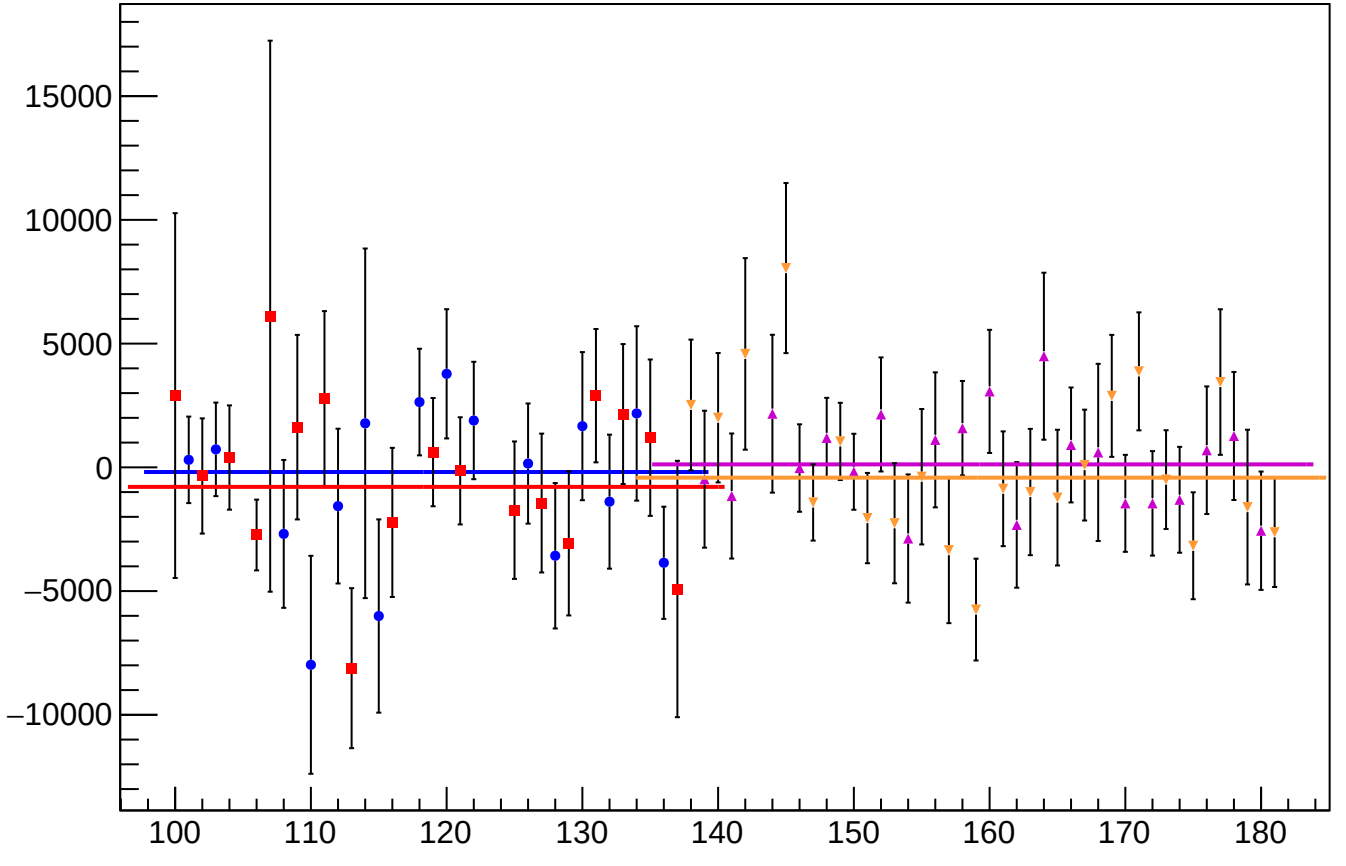
Right: 2321.844+/-0.437 $\chi^2$/NDF: 663951.9/33

In: 2221.234+/-0.319 $\chi^2$/NDF:544516.6/36

Out: 2224.331+/-0.317 $\chi^2$/NDF:192001.5/39

All: 2222.793+/-0.225 $\chi^2$/NDF: 736565.5/76

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -188.660+/-658.334 $\chi^2$/NDF: 16.4/15

Left Out: -417.172+/-492.175 $\chi^2$/NDF:30.0/21

Right Out: -789.317+/-634.900 $\chi^2$/NDF: 14.9/17

Left In: 120.220+/-493.598 $\chi^2$/NDF:11.3/20

Left: -149.252+/-348.523 $\chi^2$/NDF: 41.9/42

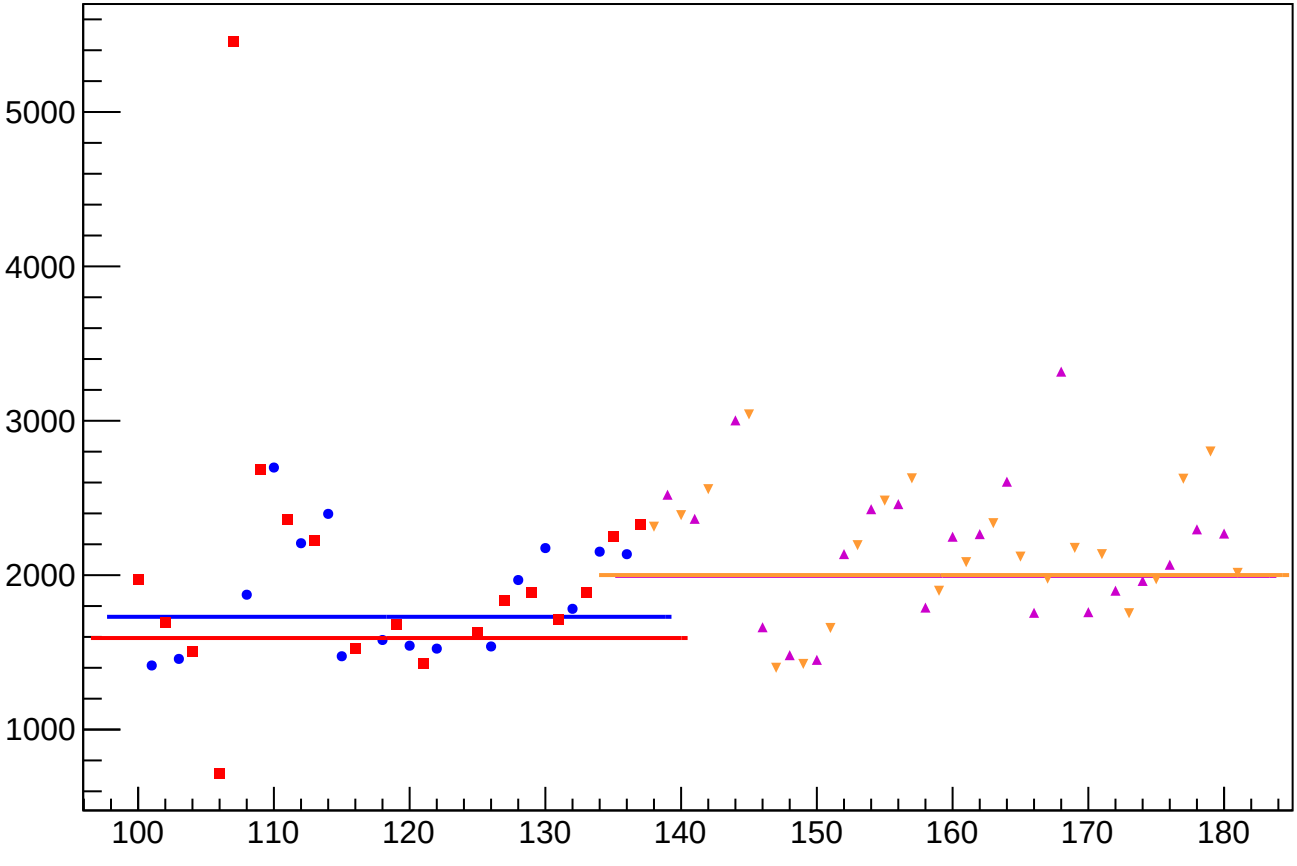
Right: -499.869+/-457.002 $\chi^2$/NDF: 31.8/33

In: 9.067+/-394.922 $\chi^2$/NDF:27.9/36

Out: -556.863+/-388.985 $\chi^2$/NDF:45.1/39

All: -278.184+/-277.129 $\chi^2$/NDF: 74.0/76

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1730.288+/-0.466 $\chi^2$/NDF: 478932.0/15

Left Out: 2000.623+/-0.348 $\chi^2$/NDF:1423390.9/21

Right Out: 1592.824+/-0.449 $\chi^2$/NDF: 1556204.8/17

Left In: 1995.215+/-0.349 $\chi^2$/NDF:1473633.6/20

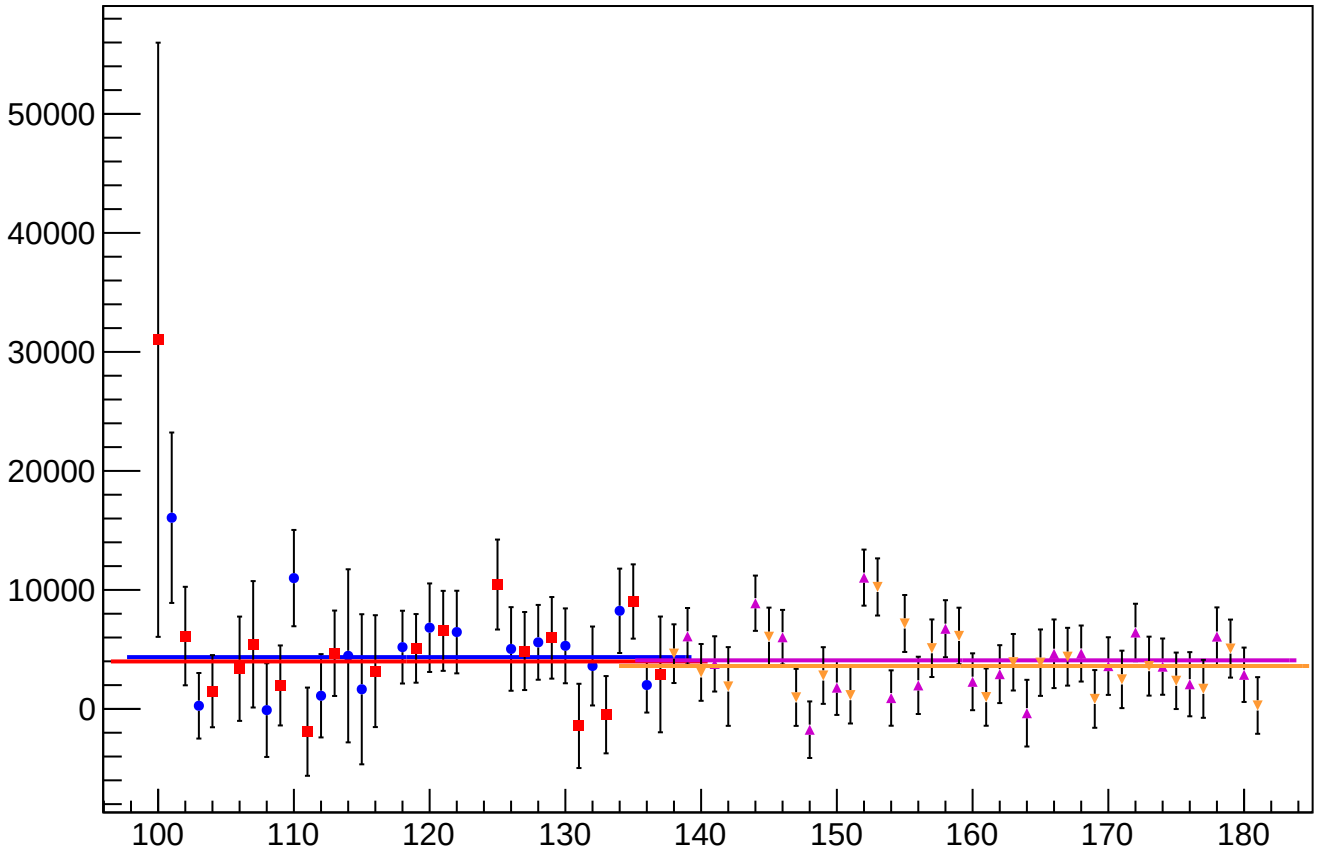
Left: 1997.926+/-0.246 $\chi^2$/NDF: 2897144.9/42

Right: 1659.066+/-0.323 $\chi^2$/NDF: 2080315.9/33

In: 1899.878+/-0.279 $\chi^2$/NDF:2159897.4/36

Out: 1847.549+/-0.275 $\chi^2$/NDF:3494985.7/39

All: 1873.317+/-0.196 $\chi^2$/NDF: 5672706.9/76




Right In: 4353.670+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 3607.004+/-522.388 $\chi^2$/NDF:21.3/21

Right Out: 3989.884+/-871.455 $\chi^2$/NDF: 16.1/17

Left In: 4083.300+/-526.707 $\chi^2$/NDF:31.2/20

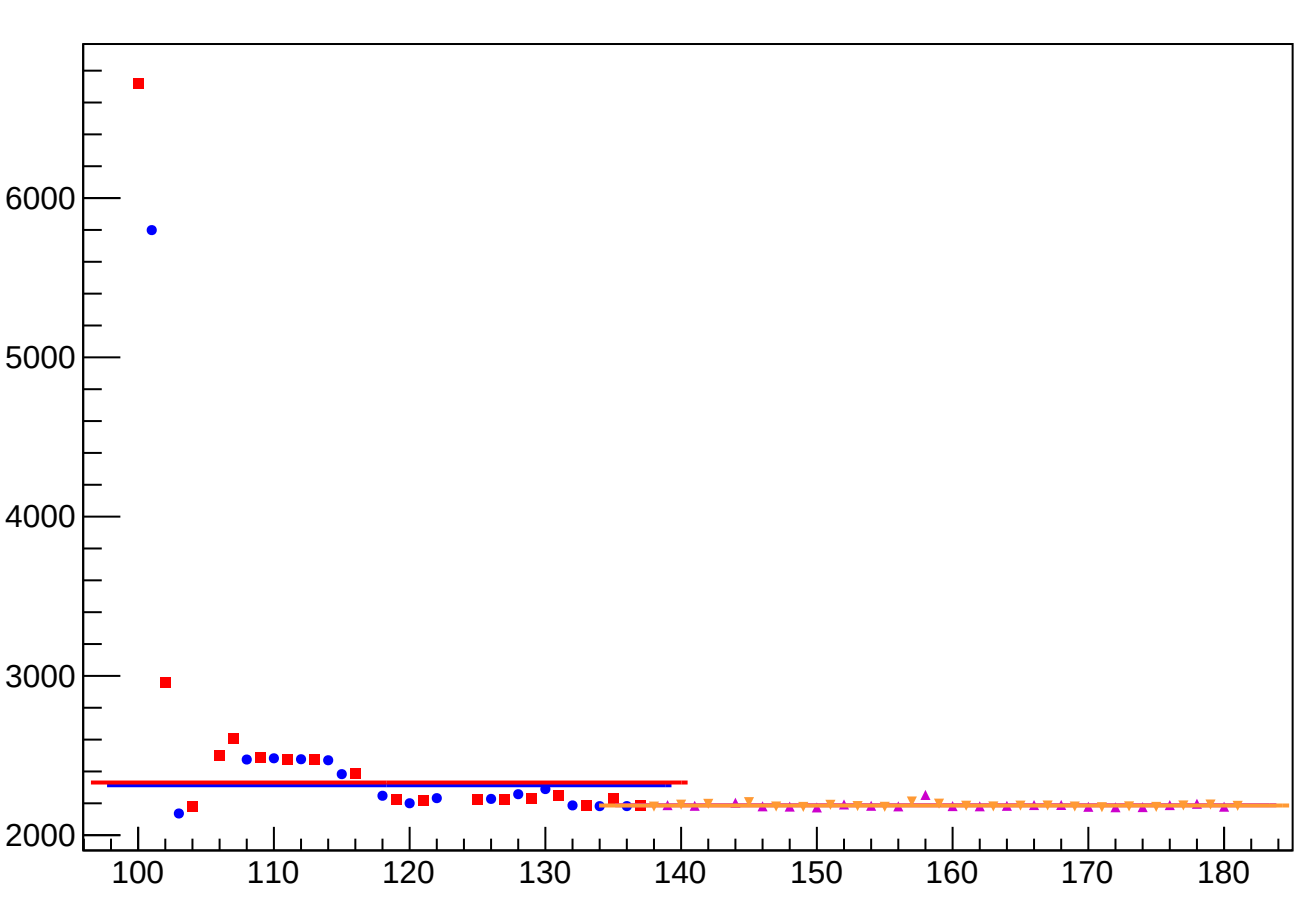
Left: 3843.191+/-370.902 $\chi^2$/NDF: 52.9/42

Right: 4171.006+/-617.516 $\chi^2$/NDF: 29.6/33

In: 4155.192+/-451.280 $\chi^2$/NDF:44.6/36

Out: 3708.216+/-448.054 $\chi^2$/NDF:37.6/39

All: 3930.101+/-317.957 $\chi^2$/NDF: 82.7/76




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512372.3/15

Left Out: 2186.275+/-0.369 $\chi^2$/NDF:648.8/21

Right Out: 2330.570+/-0.616 $\chi^2$/NDF: 151556.6/17

Left In: 2187.845+/-0.372 $\chi^2$/NDF:1919.1/20

Left: 2187.053+/-0.262 $\chi^2$/NDF: 2576.8/42

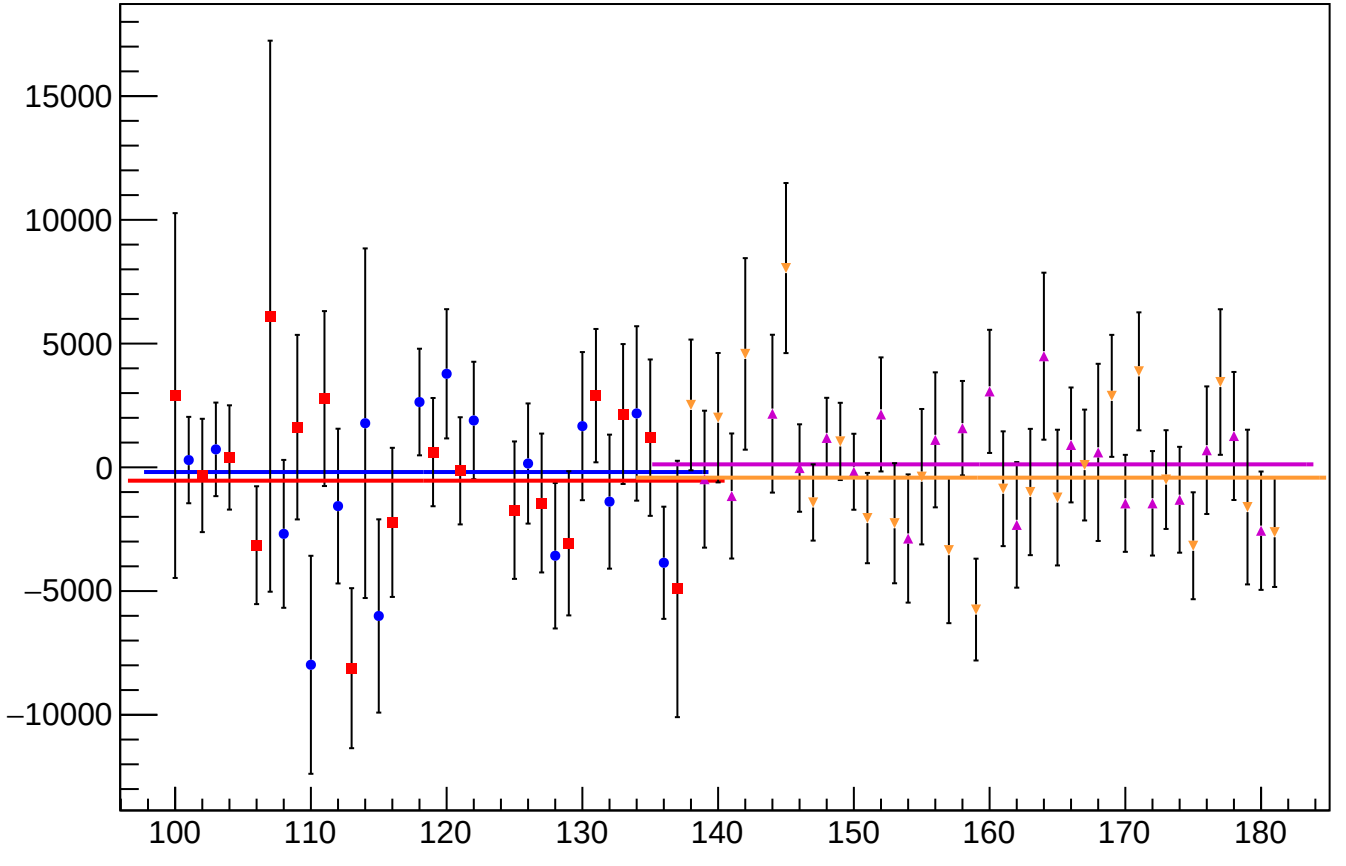
Right: 2322.028+/-0.437 $\chi^2$/NDF: 664314.8/33

In: 2221.234+/-0.319 $\chi^2$/NDF:544517.0/36

Out: 2224.419+/-0.317 $\chi^2$/NDF:192543.6/39

All: 2222.838+/-0.225 $\chi^2$/NDF: 737110.8/76

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -189.762+/-658.205 $\chi^2$/NDF: 16.4/15

Left Out: -417.223+/-492.174 $\chi^2$/NDF:30.0/21

Right Out: -539.517+/-678.214 $\chi^2$/NDF: 13.9/17

Left In: 120.317+/-493.600 $\chi^2$/NDF:11.3/20

Left: -149.230+/-348.523 $\chi^2$/NDF: 41.9/42

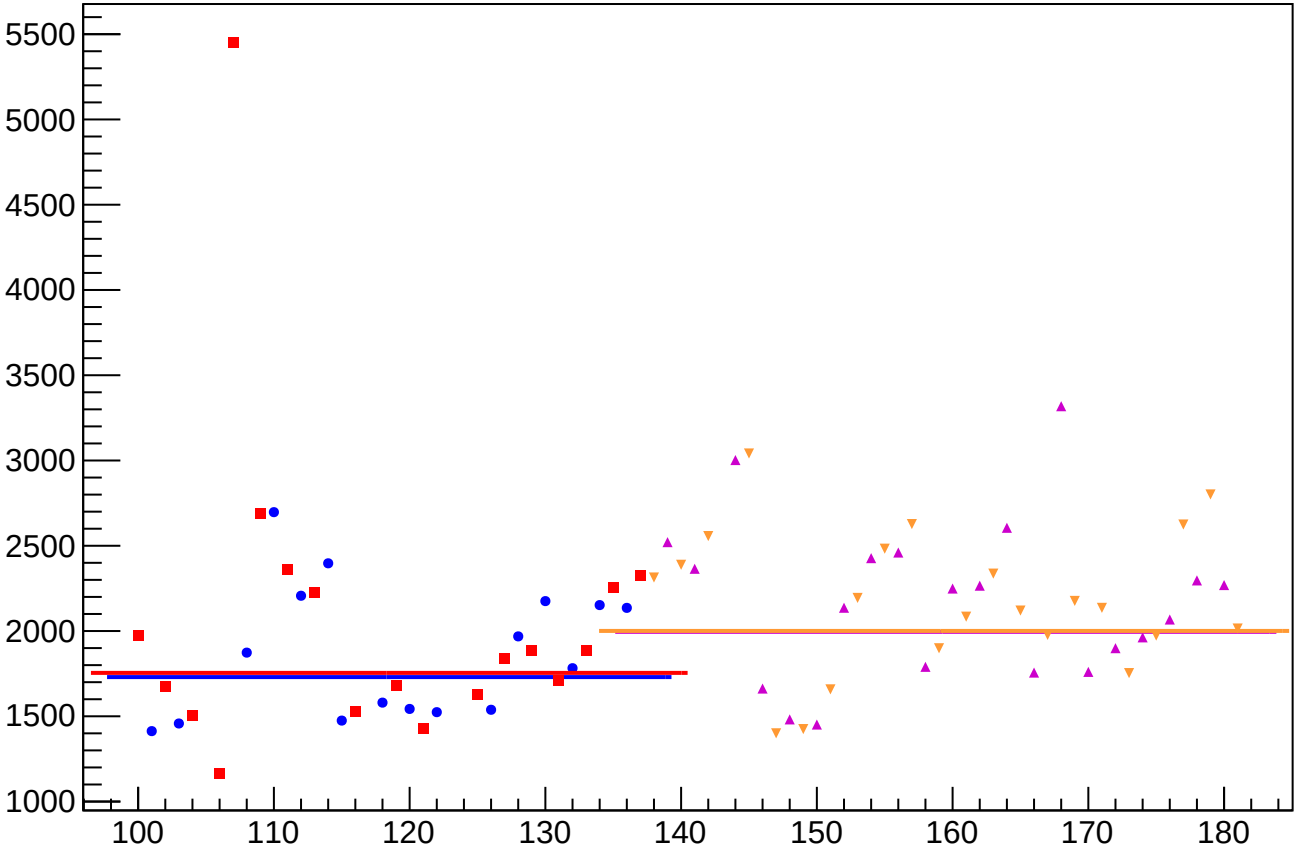
Right: -359.404+/-472.337 $\chi^2$/NDF: 30.5/33

In: 8.704+/-394.895 $\chi^2$/NDF:27.9/36

Out: -459.409+/-398.339 $\chi^2$/NDF:43.9/39

All: -223.321+/-280.443 $\chi^2$/NDF: 72.5/76

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1729.898+/-0.465 $\chi^2$/NDF: 479898.2/15

Left Out: 2000.617+/-0.348 $\chi^2$/NDF:1423444.3/21

Right Out: 1754.526+/-0.480 $\chi^2$/NDF: 751010.0/17

Left In: 1995.220+/-0.349 $\chi^2$/NDF:1473654.5/20

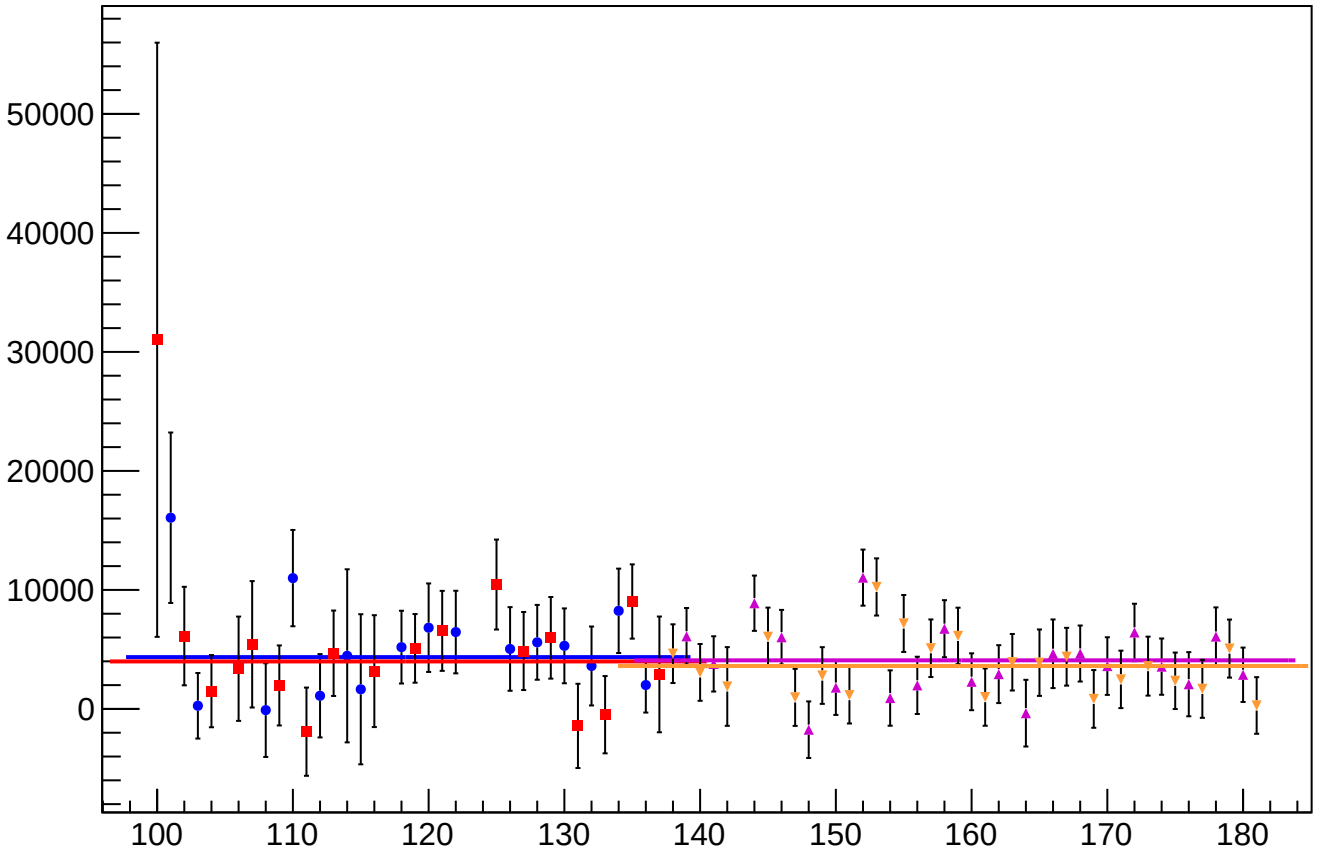
Left: 1997.927+/-0.246 $\chi^2$/NDF: 2897218.7/42

Right: 1741.844+/-0.334 $\chi^2$/NDF: 1232266.3/33

In: 1899.718+/-0.279 $\chi^2$/NDF:2161555.0/36

Out: 1915.725+/-0.282 $\chi^2$/NDF:2346940.2/39

All: 1907.652+/-0.198 $\chi^2$/NDF: 4510124.2/76




Right In: 4353.670+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 3607.004+/-522.388 $\chi^2$/NDF:21.3/21

Right Out: 3989.884+/-871.455 $\chi^2$/NDF: 16.1/17

Left In: 4083.300+/-526.707 $\chi^2$/NDF:31.2/20

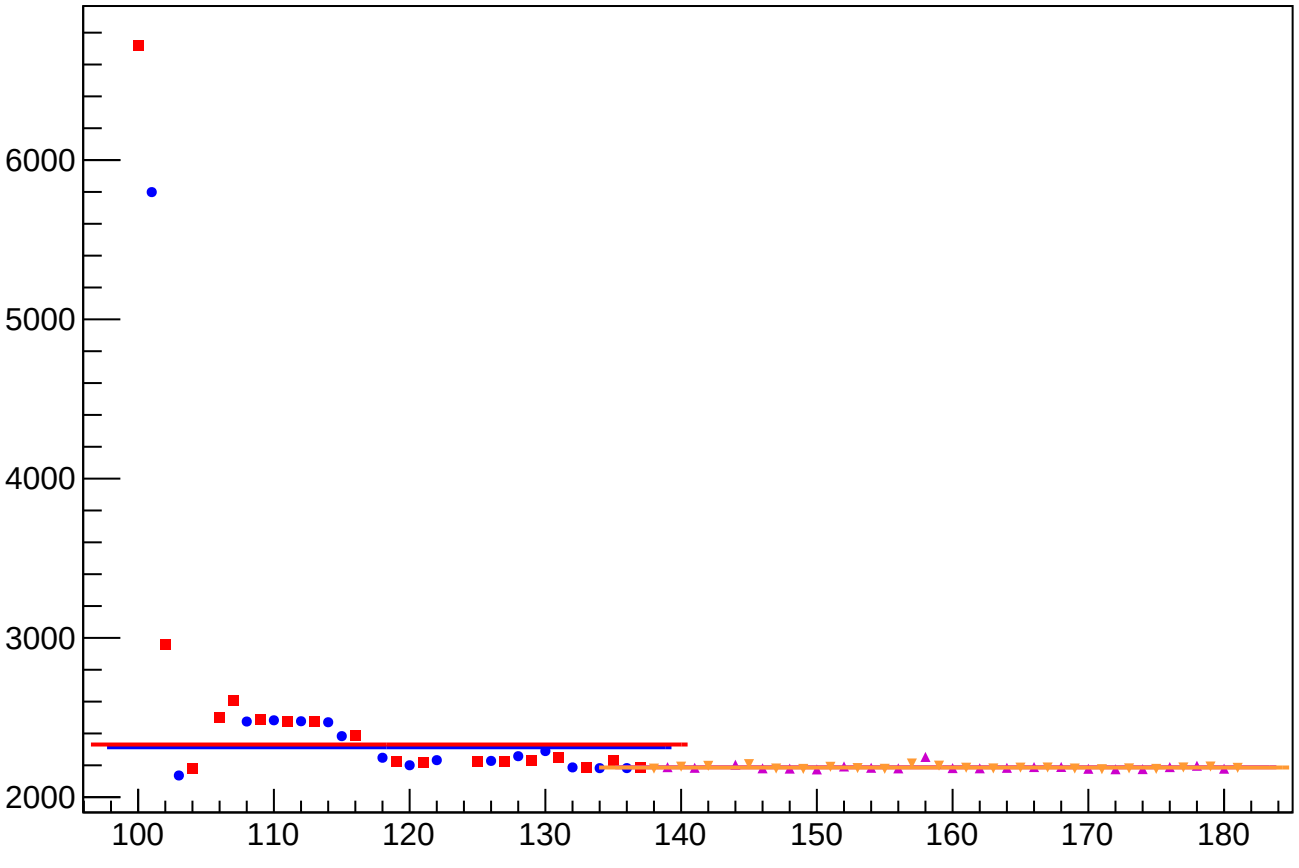
Left: 3843.191+/-370.902 $\chi^2$/NDF: 52.9/42

Right: 4171.006+/-617.516 $\chi^2$/NDF: 29.6/33

In: 4155.192+/-451.280 $\chi^2$/NDF:44.6/36

Out: 3708.216+/-448.054 $\chi^2$/NDF:37.6/39

All: 3930.101+/-317.957 $\chi^2$/NDF: 82.7/76




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512372.3/15

Left Out: 2186.275+/-0.369 $\chi^2$/NDF:648.8/21

Right Out: 2330.570+/-0.616 $\chi^2$/NDF: 151556.6/17

Left In: 2187.845+/-0.372 $\chi^2$/NDF:1919.1/20

Left: 2187.053+/-0.262 $\chi^2$/NDF: 2576.8/42

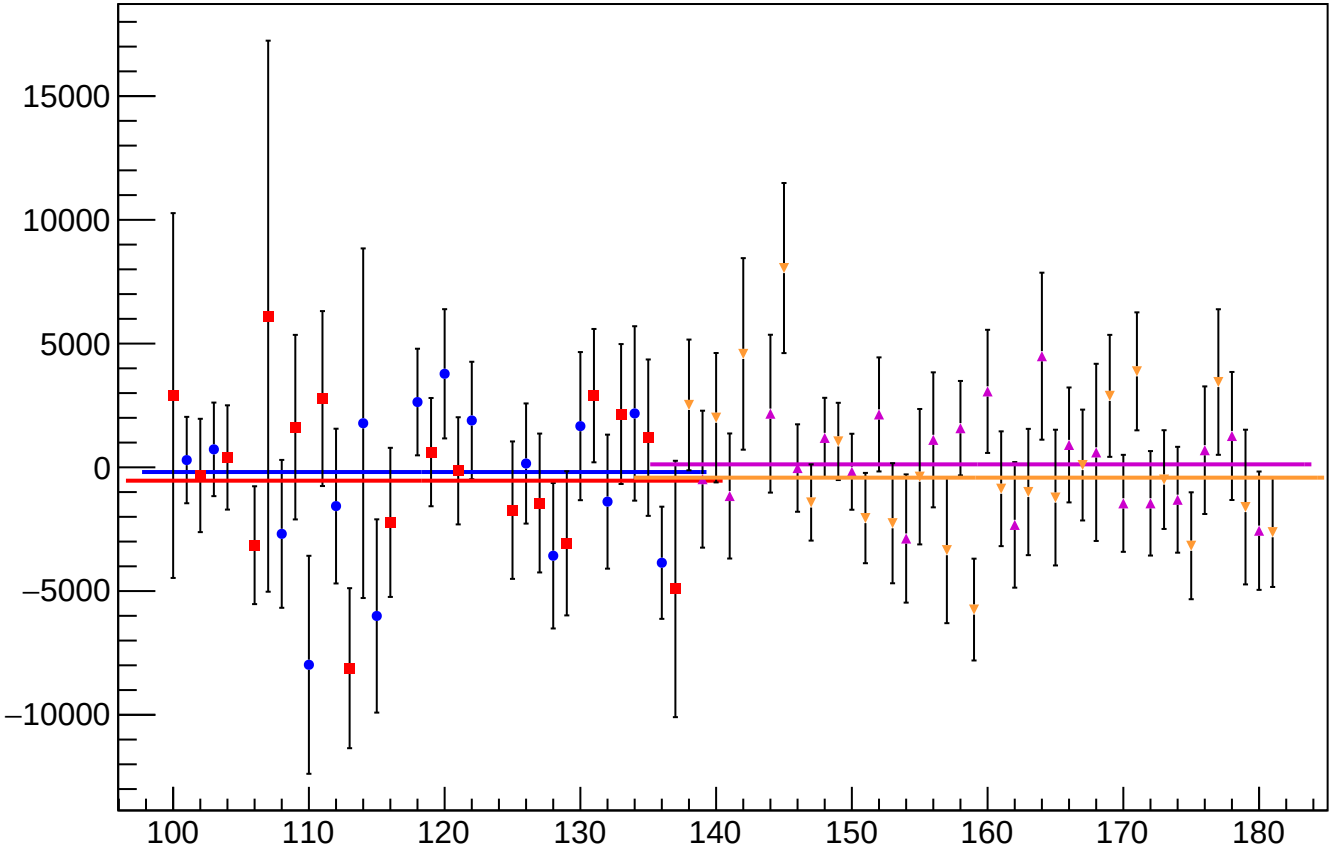
Right: 2322.028+/-0.437 $\chi^2$/NDF: 664314.8/33

In: 2221.234+/-0.319 $\chi^2$/NDF:544517.0/36

Out: 2224.419+/-0.317 $\chi^2$/NDF:192543.6/39

All: 2222.838+/-0.225 $\chi^2$/NDF: 737110.8/76

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -189.762+/-658.205 $\chi^2$/NDF: 16.4/15

Left Out: -417.223+/-492.174 $\chi^2$/NDF:30.0/21

Right Out: -539.517+/-678.214 $\chi^2$/NDF: 13.9/17

Left In: 120.317+/-493.600 $\chi^2$/NDF:11.3/20

Left: -149.230+/-348.523 $\chi^2$/NDF: 41.9/42

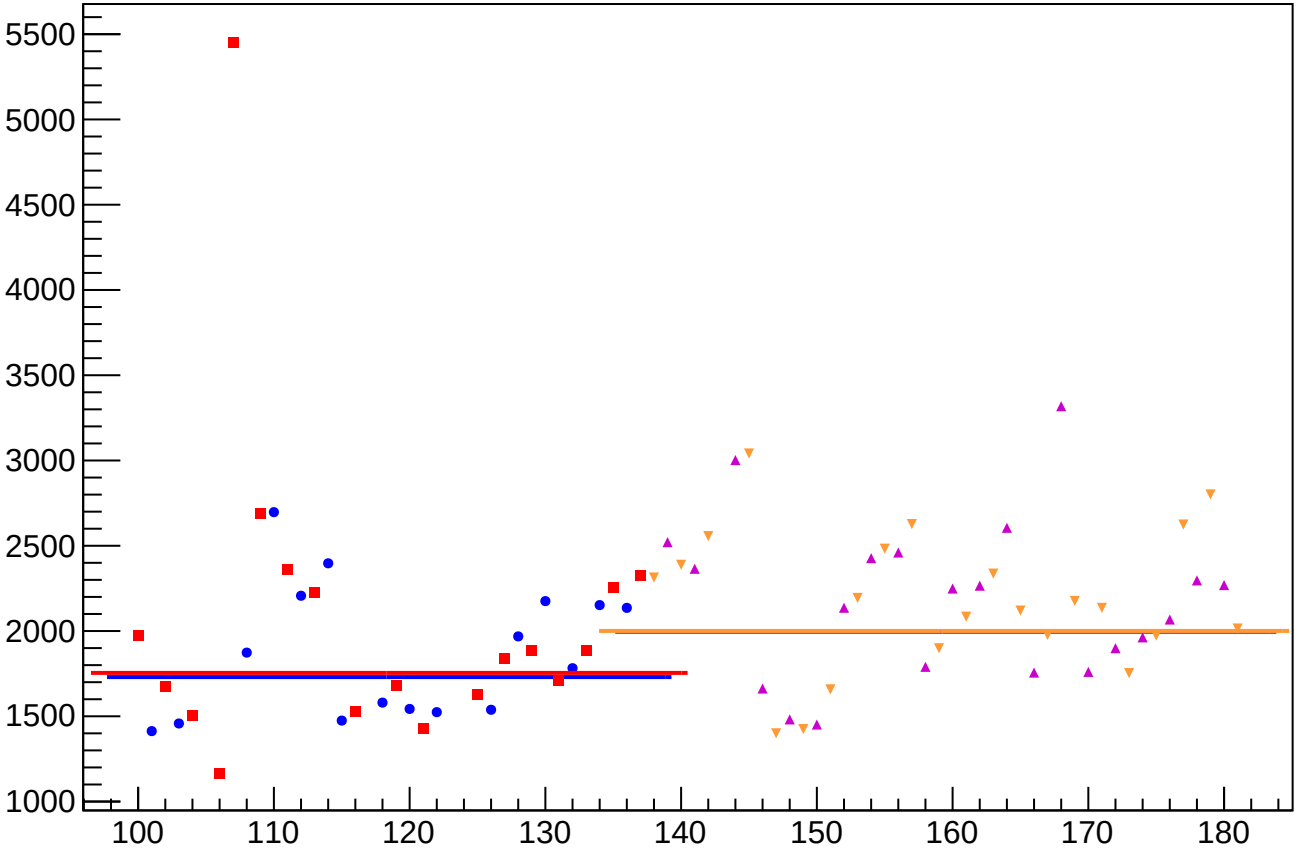
Right: -359.404+/-472.337 $\chi^2$/NDF: 30.5/33

In: 8.704+/-394.895 $\chi^2$/NDF:27.9/36

Out: -459.409+/-398.339 $\chi^2$/NDF:43.9/39

All: -223.321+/-280.443 $\chi^2$/NDF: 72.5/76

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1729.898+/-0.465 $\chi^2$/NDF: 479898.2/15

Left Out: 2000.617+/-0.348 $\chi^2$/NDF:1423444.3/21

Right Out: 1754.526+/-0.480 $\chi^2$/NDF: 751010.0/17

Left In: 1995.220+/-0.349 $\chi^2$/NDF:1473654.5/20

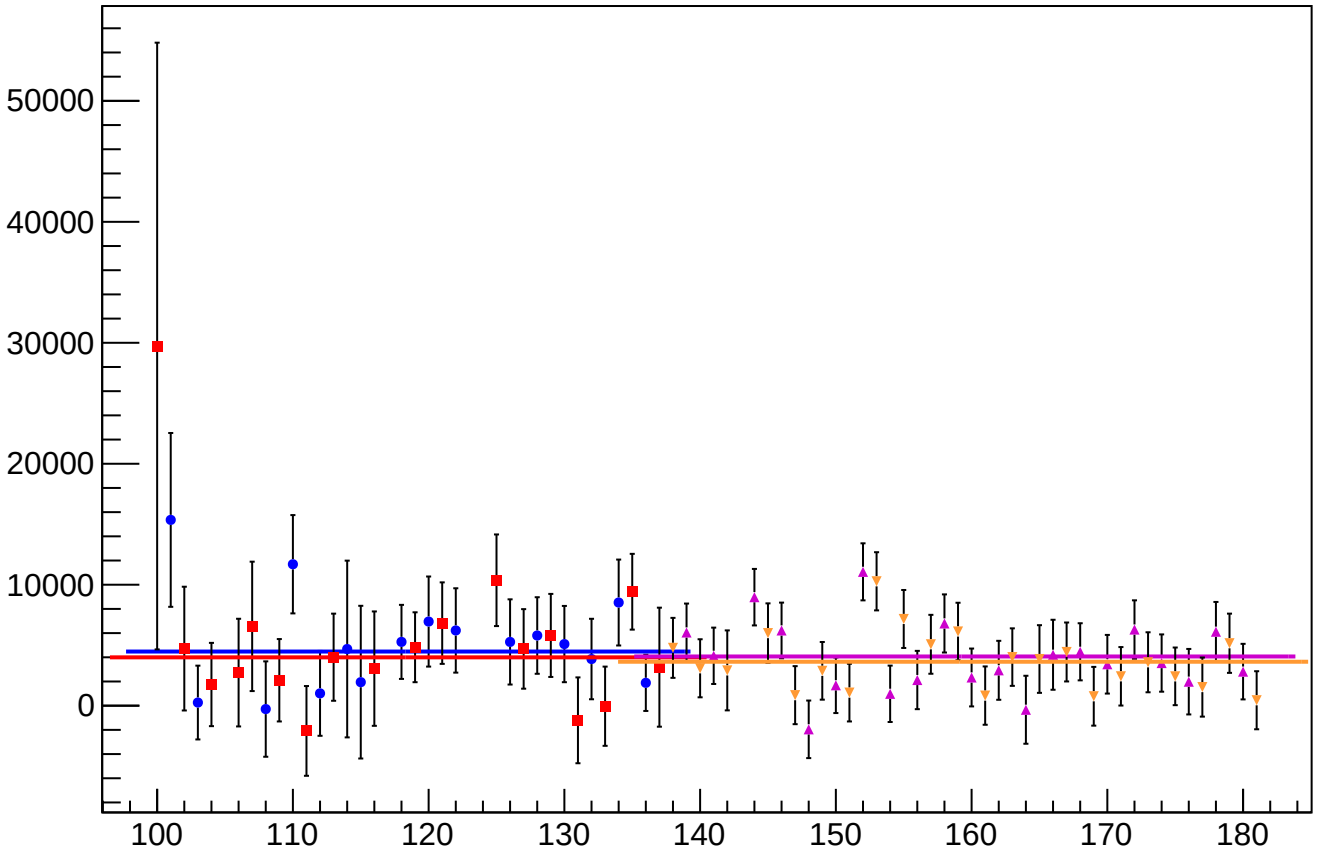
Left: 1997.927+/-0.246 $\chi^2$/NDF: 2897218.7/42

Right: 1741.844+/-0.334 $\chi^2$/NDF: 1232266.3/33

In: 1899.718+/-0.279 $\chi^2$/NDF:2161555.0/36

Out: 1915.725+/-0.282 $\chi^2$/NDF:2346940.2/39

All: 1907.652+/-0.198 $\chi^2$/NDF: 4510124.2/76




Right In: 4476.431+/-886.087 $\chi^2$/NDF: 13.5/15

Left Out: 3633.070+/-523.866 $\chi^2$/NDF:21.3/21

Right Out: 3995.807+/-890.441 $\chi^2$/NDF: 15.5/17

Left In: 4067.942+/-528.038 $\chi^2$/NDF:31.7/20

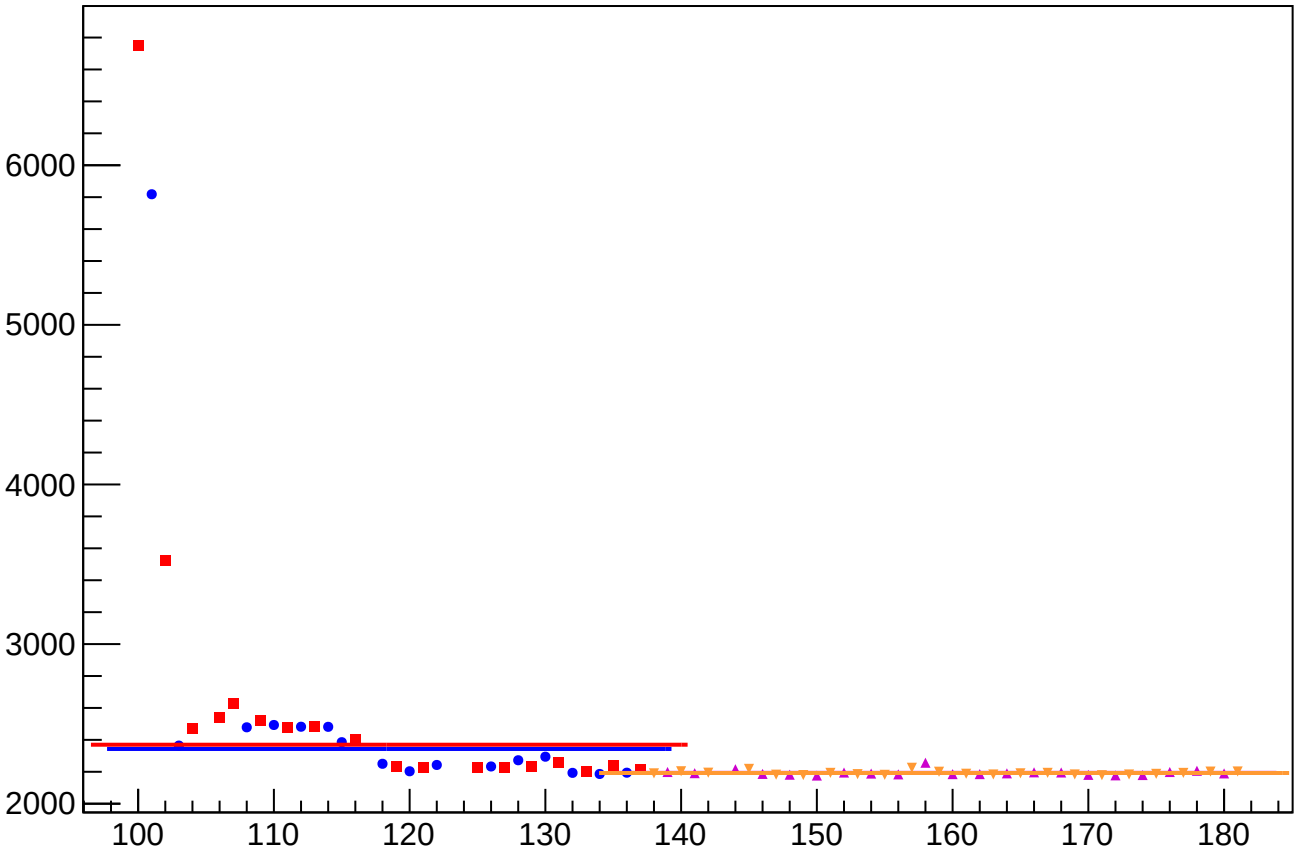
Left: 3848.781+/-371.896 $\chi^2$/NDF: 53.4/42

Right: 4237.297+/-628.092 $\chi^2$/NDF: 29.2/33

In: 4174.990+/-453.603 $\chi^2$/NDF:45.4/36

Out: 3726.339+/-451.521 $\chi^2$/NDF:37.0/39

All: 3949.633+/-320.007 $\chi^2$/NDF: 82.9/76




Right In: 2342.914+/-0.627 $\chi^2$/NDF: 502866.3/15

Left Out: 2192.379+/-0.370 $\chi^2$/NDF:1035.9/21

Right Out: 2369.572+/-0.630 $\chi^2$/NDF: 210147.5/17

Left In: 2193.322+/-0.373 $\chi^2$/NDF:2130.7/20

Left: 2192.847+/-0.263 $\chi^2$/NDF: 3169.9/42

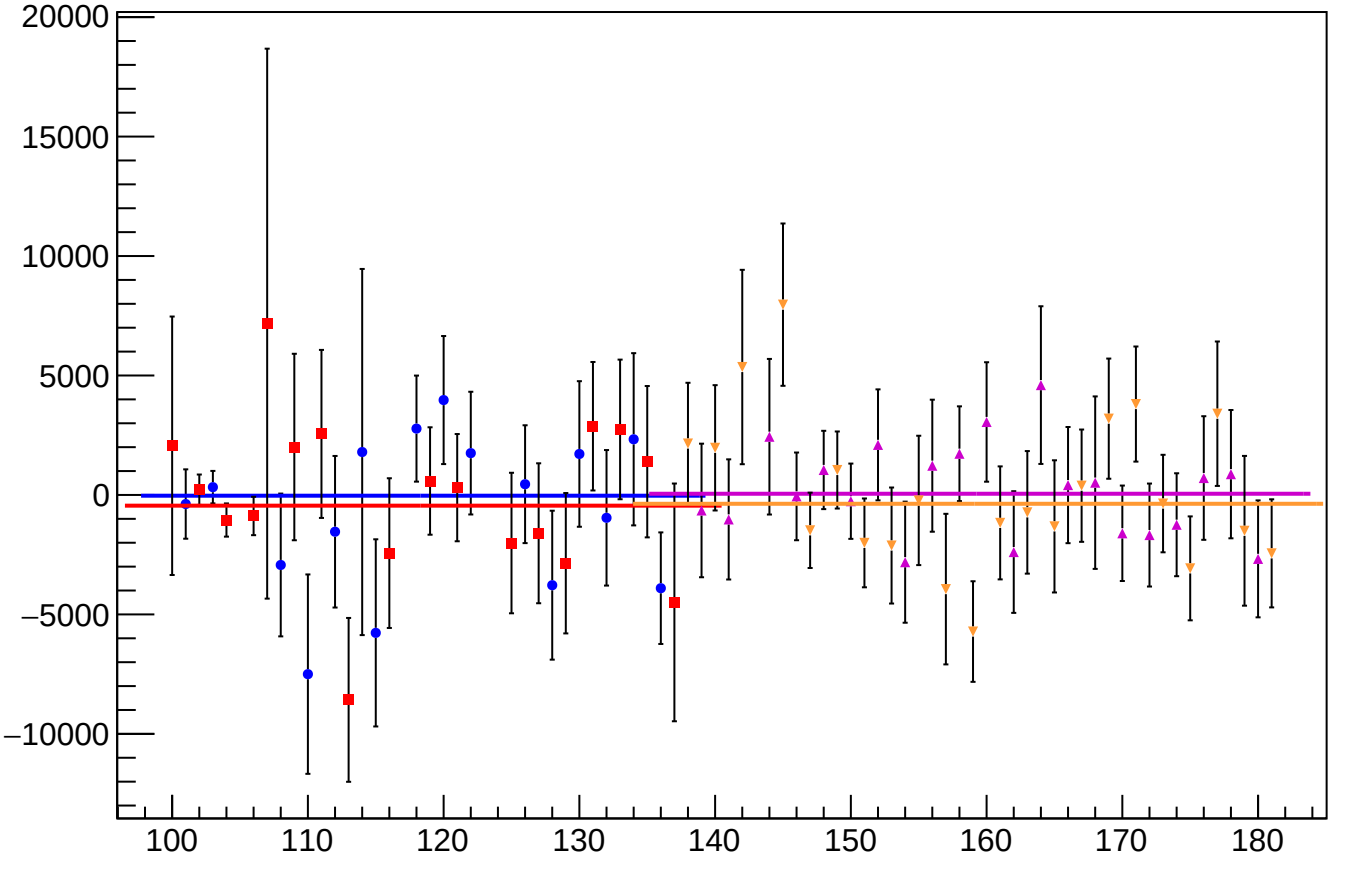
Right: 2356.178+/-0.444 $\chi^2$/NDF: 713914.5/33

In: 2232.524+/-0.321 $\chi^2$/NDF:547061.7/36

Out: 2237.940+/-0.319 $\chi^2$/NDF:270017.9/39

All: 2235.244+/-0.226 $\chi^2$/NDF: 817222.8/76

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -31.393+/-485.329 $\chi^2$/NDF: 16.3/15

Left Out: -369.603+/-500.811 $\chi^2$/NDF:29.5/21

Right Out: -448.261+/-362.570 $\chi^2$/NDF: 15.1/17

Left In: 50.487+/-502.059 $\chi^2$/NDF:11.5/20

Left: -160.081+/-354.567 $\chi^2$/NDF: 41.4/42

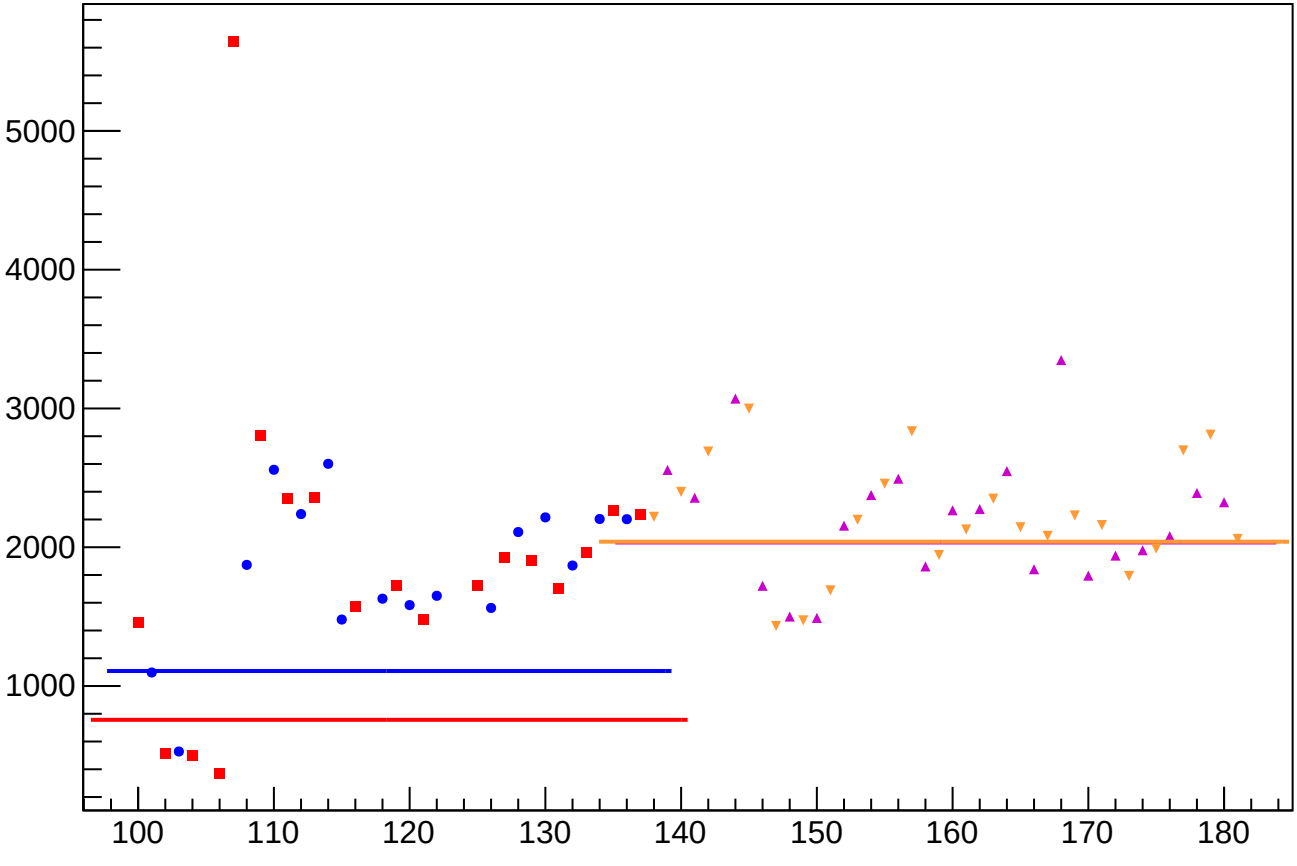
Right: -298.942+/-290.465 $\chi^2$/NDF: 31.9/33

In: 8.160+/-348.944 $\chi^2$/NDF:27.9/36

Out: -421.212+/-293.685 $\chi^2$/NDF:44.6/39

All: -243.176+/-224.694 $\chi^2$/NDF: 73.4/76

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1108.139+/-0.343 $\chi^2$/NDF: 3746477.0/15

Left Out: 2040.020+/-0.354 $\chi^2$/NDF:1358263.9/21

Right Out: 756.419+/-0.256 $\chi^2$/NDF: 5603215.5/17

Left In: 2034.246+/-0.355 $\chi^2$/NDF:1385351.1/20

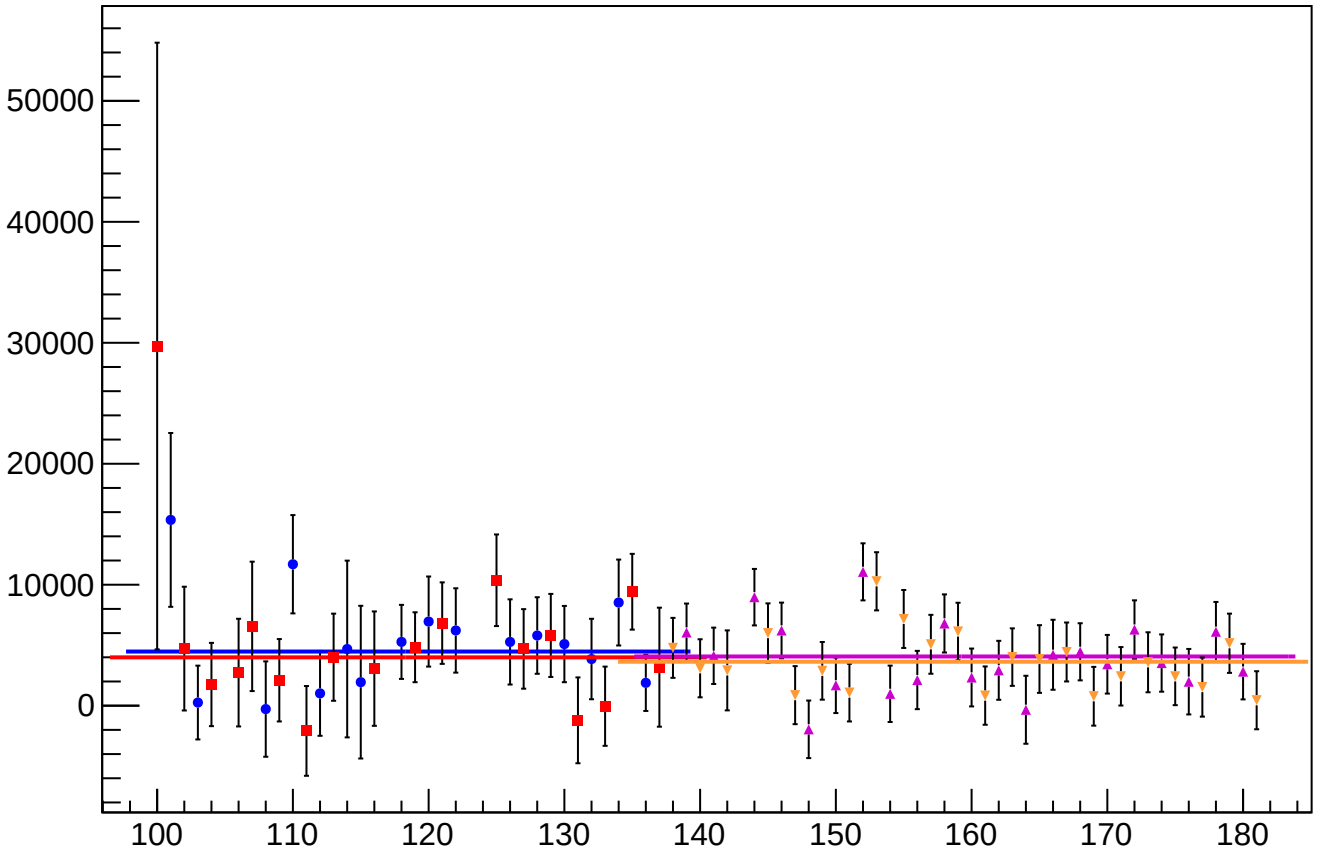
Left: 2037.140+/-0.251 $\chi^2$/NDF: 2743747.6/42

Right: 882.403+/-0.205 $\chi^2$/NDF: 10023844.2/33

In: 1555.505+/-0.247 $\chi^2$/NDF:8649715.6/36

Out: 1197.833+/-0.208 $\chi^2$/NDF:15581767.5/39

All: 1346.139+/-0.159 $\chi^2$/NDF: 25461501.2/7




Right In: 4476.427+/-886.086 $\chi^2$/NDF: 13.5/15

Left Out: 3633.069+/-523.866 $\chi^2$/NDF:21.3/21

Right Out: 3995.803+/-890.441 $\chi^2$/NDF: 15.5/17

Left In: 4067.943+/-528.038 $\chi^2$/NDF:31.7/20

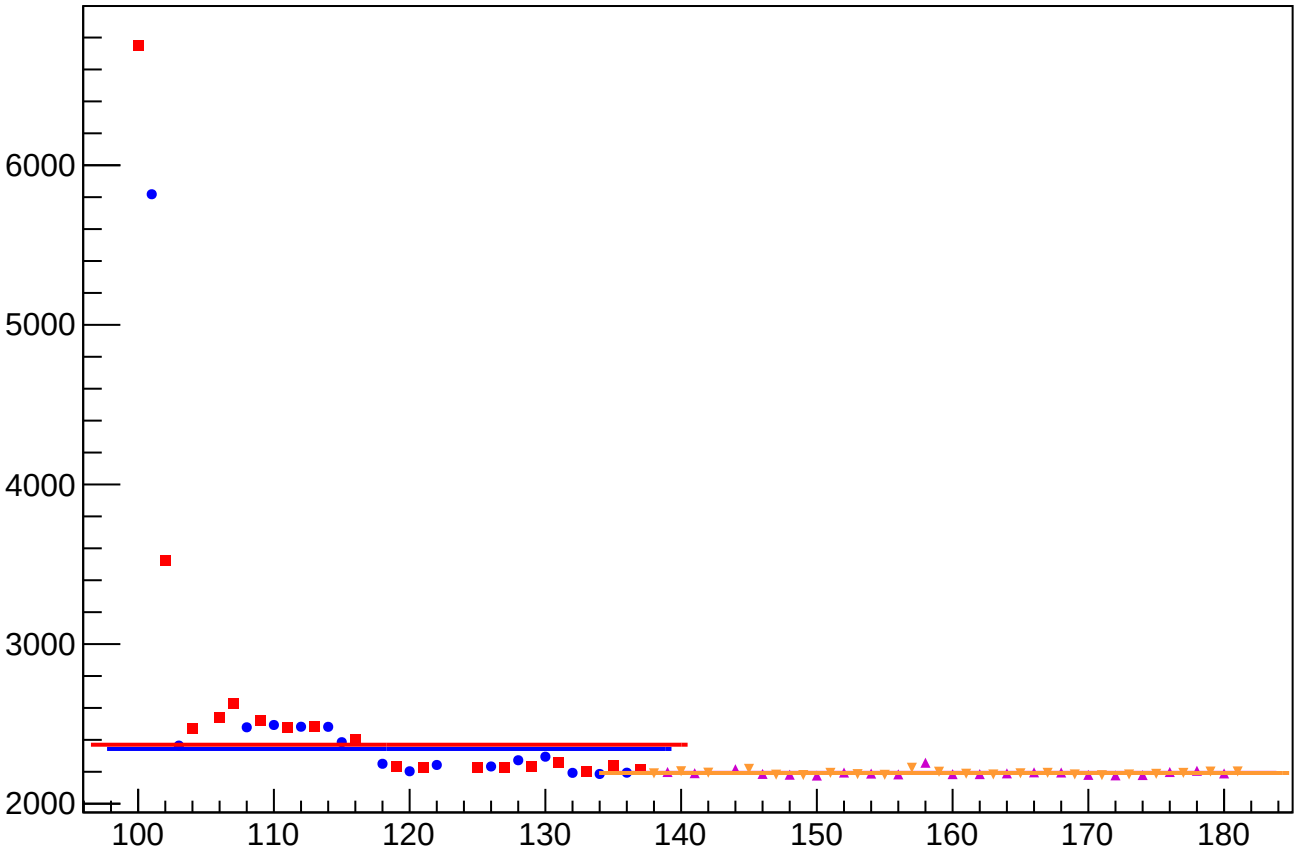
Left: 3848.781+/-371.896 $\chi^2$/NDF: 53.4/42

Right: 4237.293+/-628.092 $\chi^2$/NDF: 29.2/33

In: 4174.990+/-453.603 $\chi^2$/NDF:45.4/36

Out: 3726.337+/-451.521 $\chi^2$/NDF:37.0/39

All: 3949.632+/-320.007 $\chi^2$/NDF: 82.9/76




Right In: 2342.913+/-0.627 $\chi^2$/NDF: 502866.3/15

Left Out: 2192.379+/-0.370 $\chi^2$/NDF:1035.9/21

Right Out: 2369.572+/-0.630 $\chi^2$/NDF: 210146.5/17

Left In: 2193.322+/-0.373 $\chi^2$/NDF:2130.7/20

Left: 2192.847+/-0.263 $\chi^2$/NDF: 3169.9/42

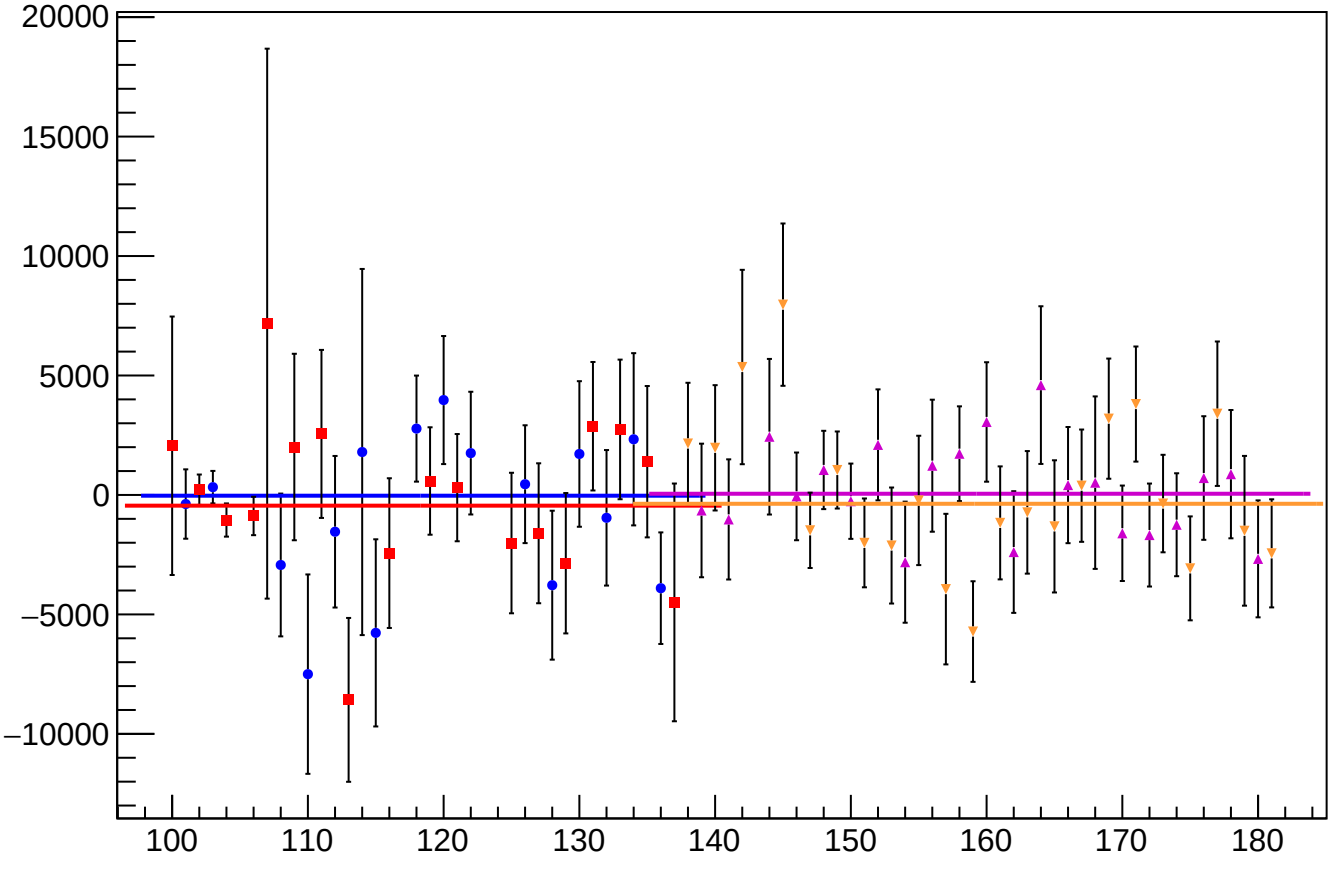
Right: 2356.177+/-0.444 $\chi^2$/NDF: 713913.5/33

In: 2232.524+/-0.321 $\chi^2$/NDF:547061.4/36

Out: 2237.940+/-0.319 $\chi^2$/NDF:270016.4/39

All: 2235.244+/-0.226 $\chi^2$/NDF: 817221.1/76

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -31.400+/-485.331 $\chi^2$/NDF: 16.3/15

Left Out: -369.607+/-500.812 $\chi^2$/NDF:29.5/21

Right Out: -448.265+/-362.575 $\chi^2$/NDF: 15.1/17

Left In: 50.488+/-502.060 $\chi^2$/NDF:11.5/20

Left: -160.082+/-354.568 $\chi^2$/NDF: 41.4/42

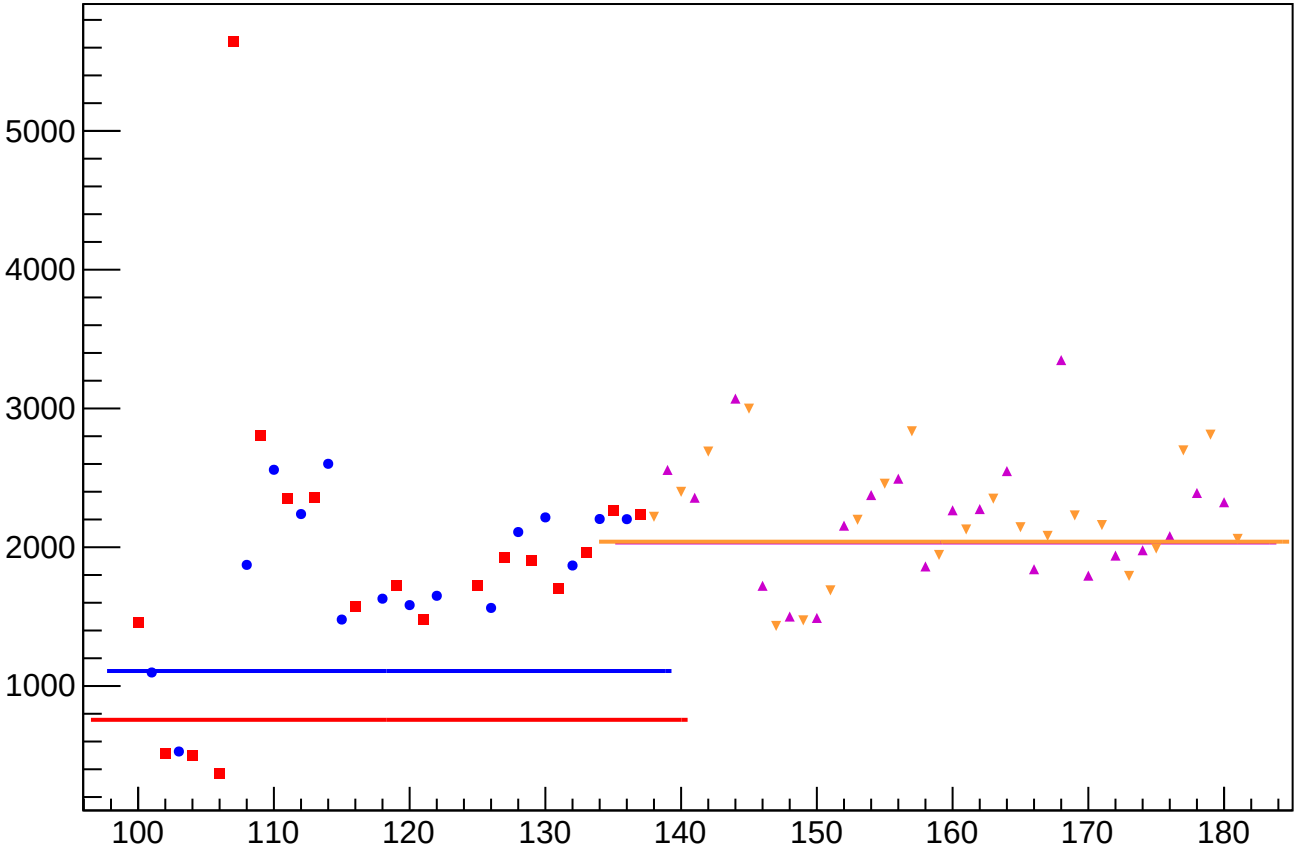
Right: -298.945+/-290.468 $\chi^2$/NDF: 31.9/33

In: 8.157+/-348.945 $\chi^2$/NDF:27.9/36

Out: -421.215+/-293.687 $\chi^2$/NDF:44.6/39

All: -243.178+/-224.696 $\chi^2$/NDF: 73.4/76

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1108.149+/-0.343 $\chi^2$/NDF: 3746402.0/15

Left Out: 2040.024+/-0.354 $\chi^2$/NDF:1358263.3/21

Right Out: 756.434+/-0.256 $\chi^2$/NDF: 5603097.5/17

Left In: 2034.249+/-0.355 $\chi^2$/NDF:1385349.6/20

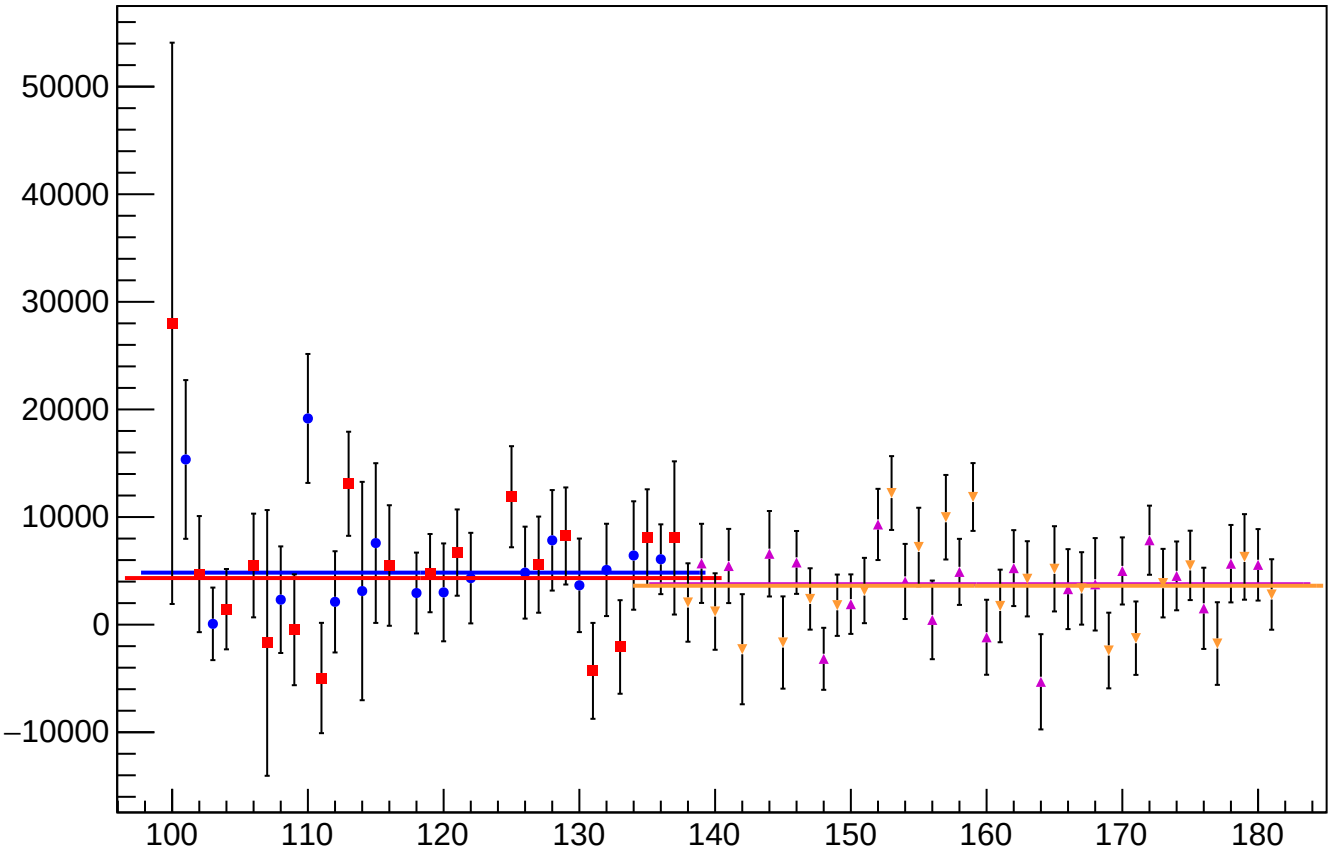
Left: 2037.144+/-0.251 $\chi^2$/NDF: 2743745.5/42

Right: 882.417+/-0.205 $\chi^2$/NDF: 10023620.2/33

In: 1555.514+/-0.247 $\chi^2$/NDF:8649567.9/36

Out: 1197.850+/-0.208 $\chi^2$/NDF:15581397.5/39

All: 1346.154+/-0.159 $\chi^2$/NDF: 25460905.7/7




Right In: 4833.806+/-1142.535 $\chi^2$/NDF: 11.7/15

Left Out: 3616.084+/-738.225 $\chi^2$/NDF:29.2/21

Right Out: 4328.601+/-1144.541 $\chi^2$/NDF: 19.9/17

Left In: 3755.928+/-741.239 $\chi^2$/NDF:20.7/20

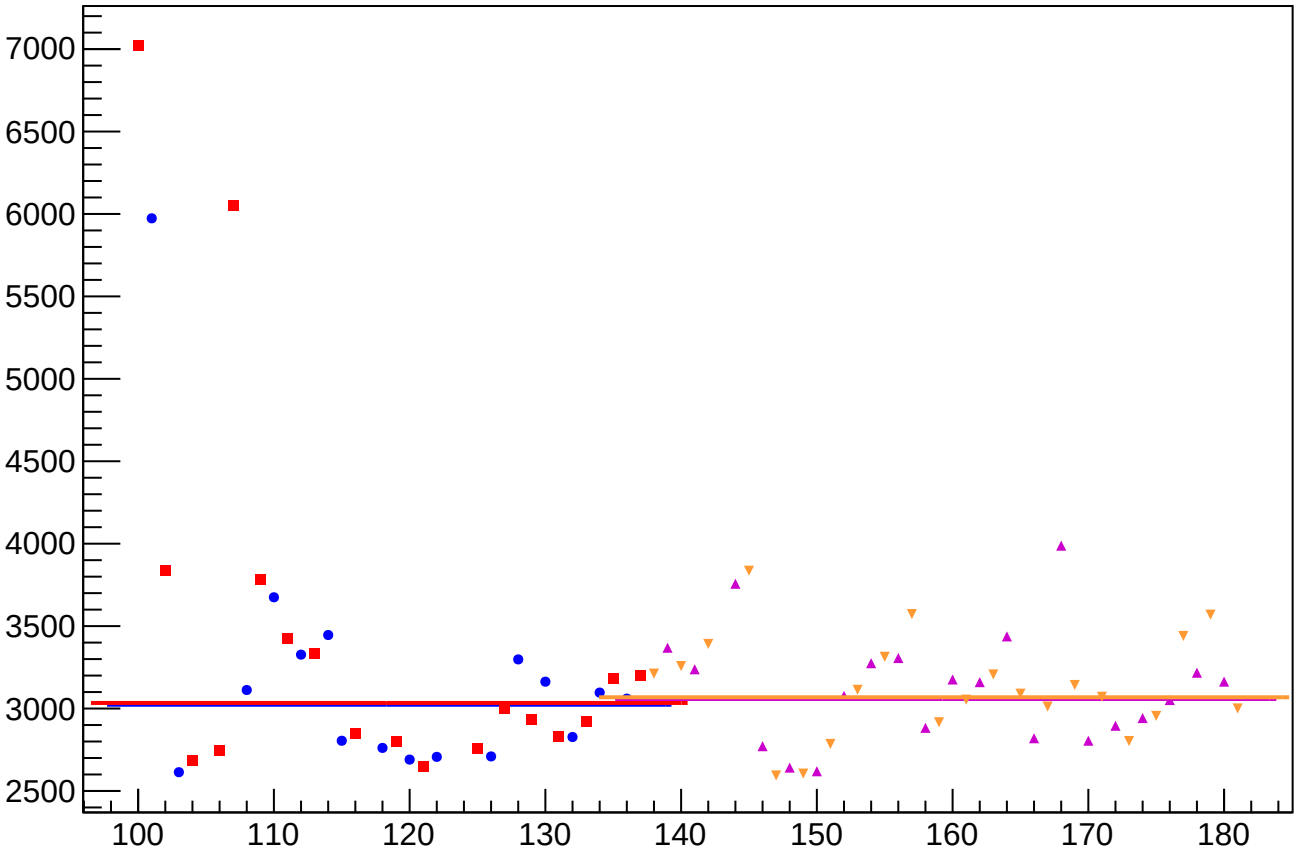
Left: 3685.721+/-523.067 $\chi^2$/NDF: 49.9/42

Right: 4581.647+/-808.603 $\chi^2$/NDF: 31.7/33

In: 4075.218+/-621.837 $\chi^2$/NDF:33.0/36

Out: 3825.419+/-620.375 $\chi^2$/NDF:49.3/39

All: 3950.024+/-439.187 $\chi^2$/NDF: 82.4/76




Right In: 3023.068+/-0.808 $\chi^2$/NDF: 443705.8/15

Left Out: 3068.247+/-0.522 $\chi^2$/NDF:325800.7/21

Right Out: 3033.869+/-0.809 $\chi^2$/NDF: 342674.7/17

Left In: 3057.993+/-0.524 $\chi^2$/NDF:363933.8/20

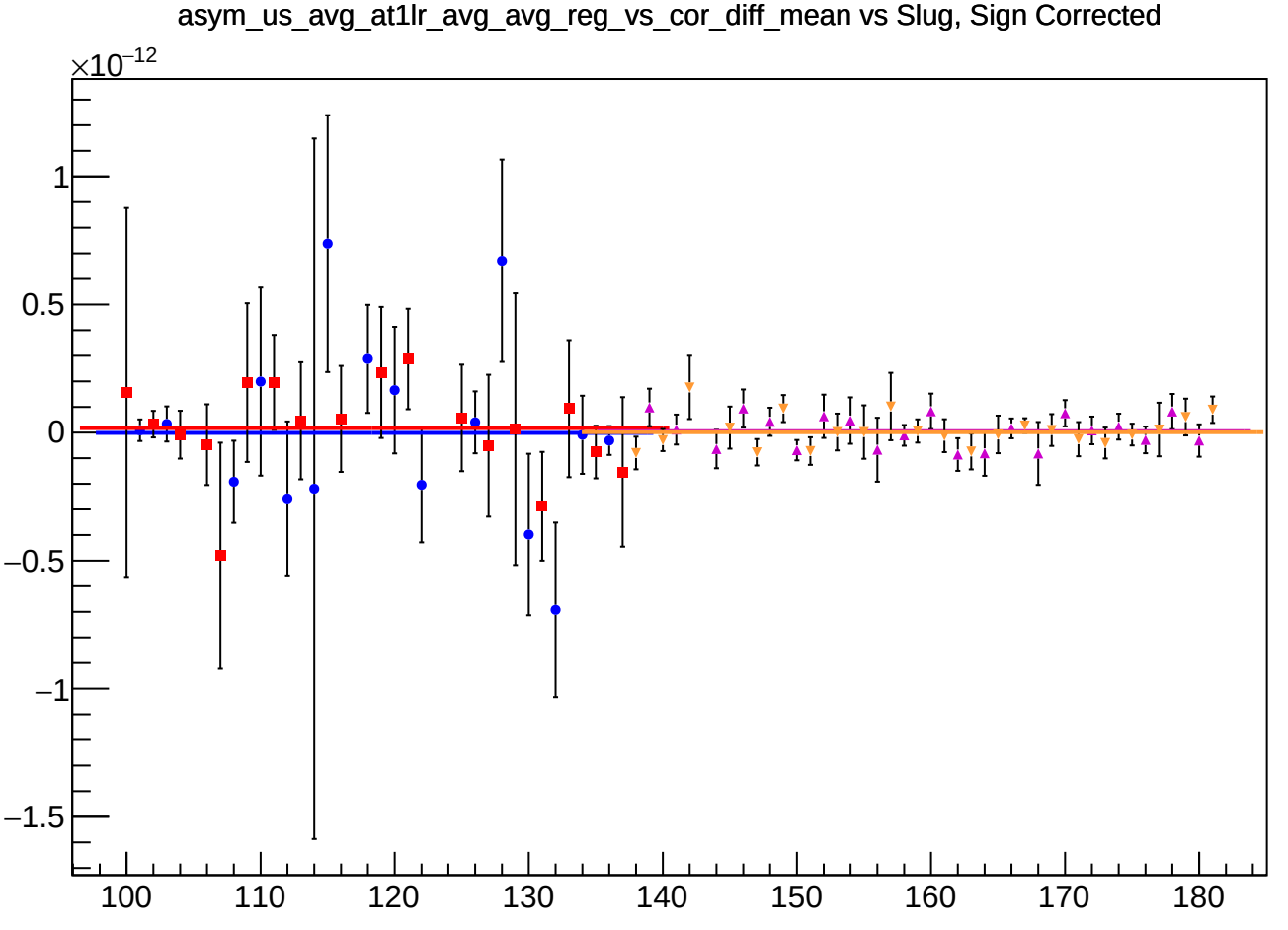
Left: 3063.141+/-0.370 $\chi^2$/NDF: 689926.6/42

Right: 3028.459+/-0.572 $\chi^2$/NDF: 786469.7/33

In: 3047.647+/-0.440 $\chi^2$/NDF:808954.7/36

Out: 3058.147+/-0.439 $\chi^2$/NDF:669749.7/39

All: 3052.909+/-0.311 $\chi^2$/NDF: 1478990.2/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.8/20

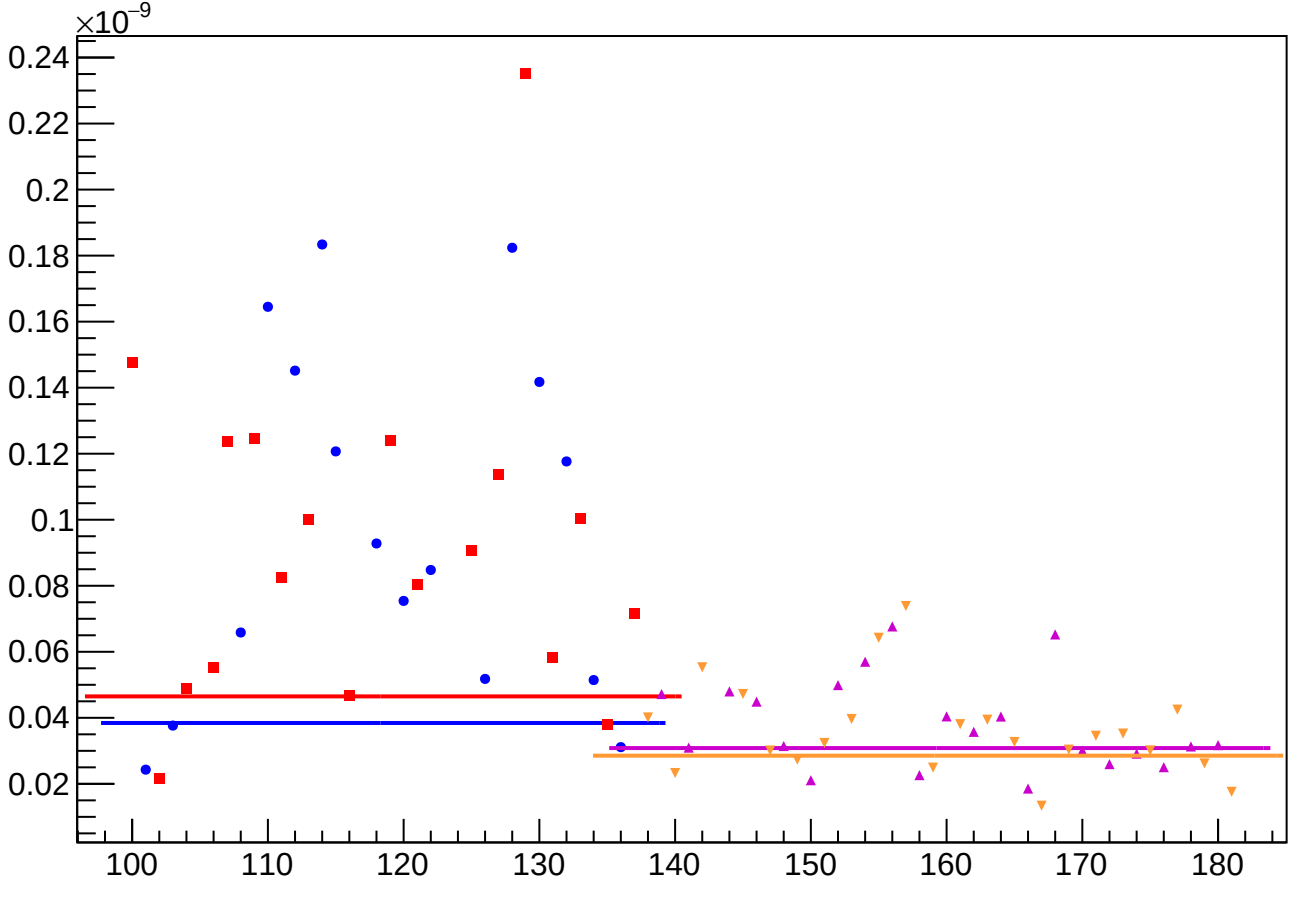
Left: 0.000+/-0.000 $\chi^2$/NDF: 36.2/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.3/33

In: 0.000+/-0.000 $\chi^2$/NDF:35.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:27.5/39

All: 0.000+/-0.000 $\chi^2$/NDF: 62.5/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1771405.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1681498.7/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1697135.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1396058.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3111187.8/42

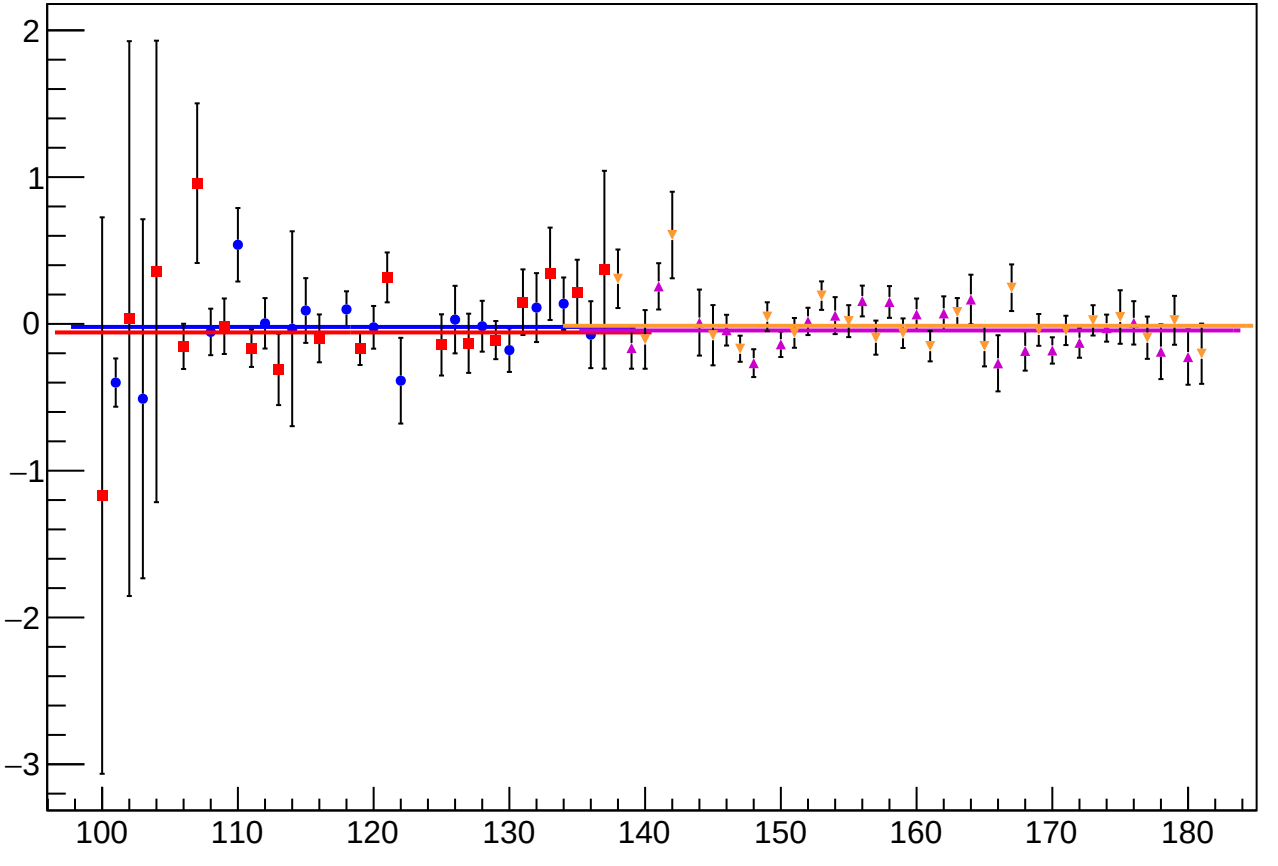
Right: 0.000+/-0.000 $\chi^2$/NDF: 3535596.3/33

In: 0.000+/-0.000 $\chi^2$/NDF:3294725.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:3860056.2/39

All: 0.000+/-0.000 $\chi^2$/NDF: 7176589.2/76

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.048 $\chi^2$/NDF: 15.6/15

Left Out: -0.013+/-0.026 $\chi^2$/NDF:24.3/21

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: -0.045+/-0.026 $\chi^2$/NDF:29.8/20

Left: -0.029+/-0.018 $\chi^2$/NDF: 54.9/42

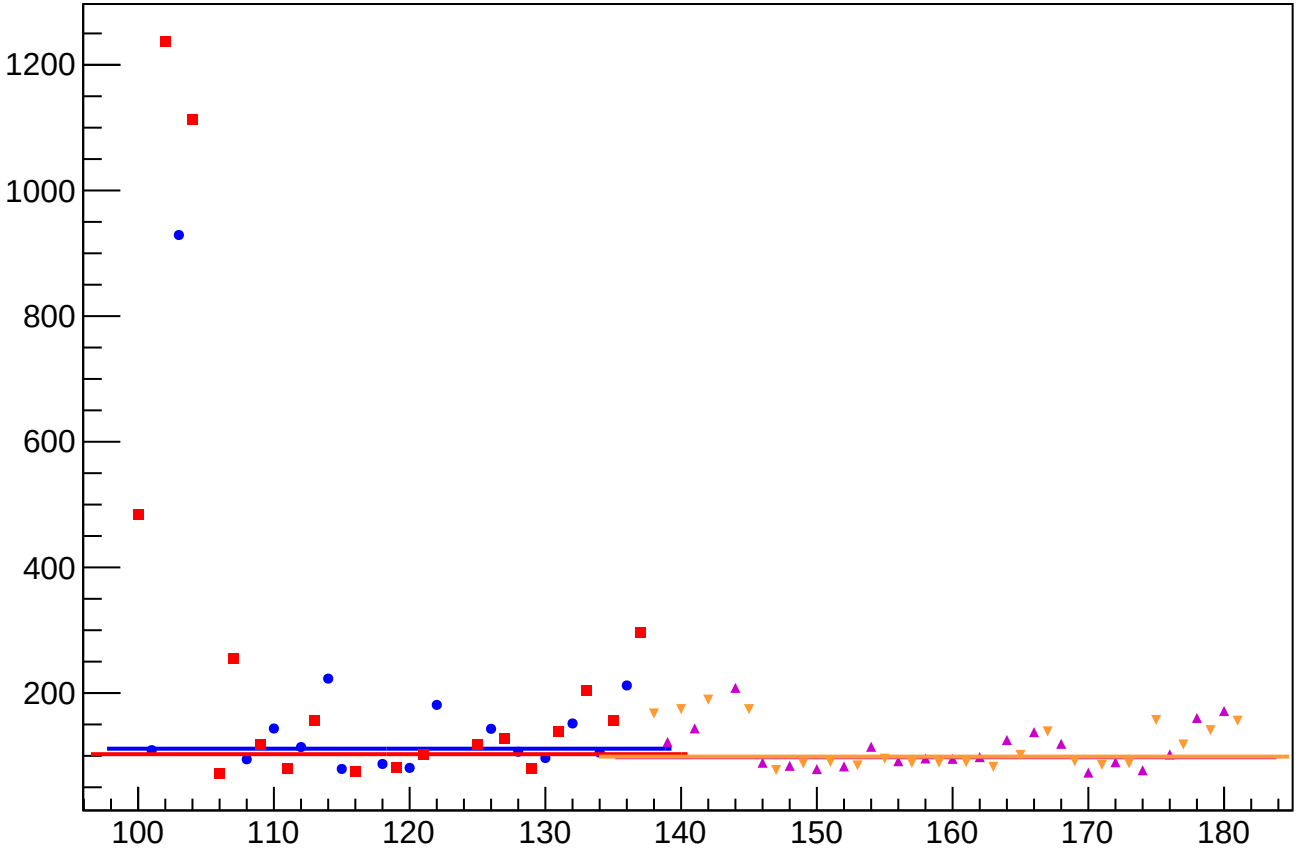
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.039+/-0.023 $\chi^2$/NDF:45.6/36

Out: -0.024+/-0.023 $\chi^2$/NDF:41.9/39

All: -0.031+/-0.016 $\chi^2$/NDF: 87.7/76

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 111.407+/-0.034 $\chi^2$/NDF: 1839361.2/15

Left Out: 98.810+/-0.018 $\chi^2$/NDF:2006263.9/21

Right Out: 102.673+/-0.033 $\chi^2$/NDF: 2826852.7/17

Left In: 97.788+/-0.018 $\chi^2$/NDF:1937643.3/20

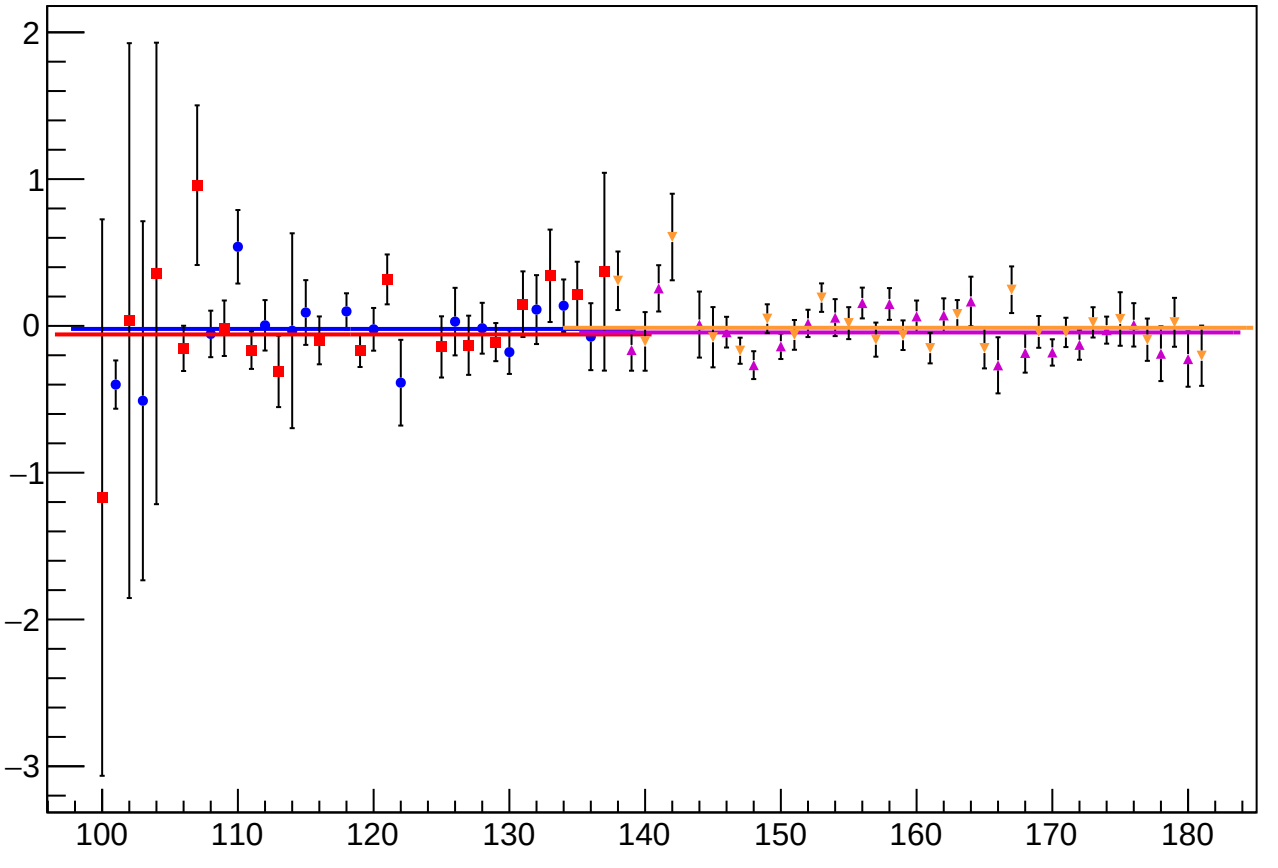
Left: 98.293+/-0.013 $\chi^2$/NDF: 3945476.9/42

Right: 106.926+/-0.024 $\chi^2$/NDF: 4700716.0/33

In: 100.850+/-0.016 $\chi^2$/NDF:3903756.8/36

Out: 99.729+/-0.016 $\chi^2$/NDF:4843679.3/39

All: 100.291+/-0.011 $\chi^2$/NDF: 8749894.3/76




Right In: -0.021+/-0.048 $\chi^2$/NDF: 15.6/15

Left Out: -0.013+/-0.026 $\chi^2$/NDF:24.3/21

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: -0.045+/-0.026 $\chi^2$/NDF:29.8/20

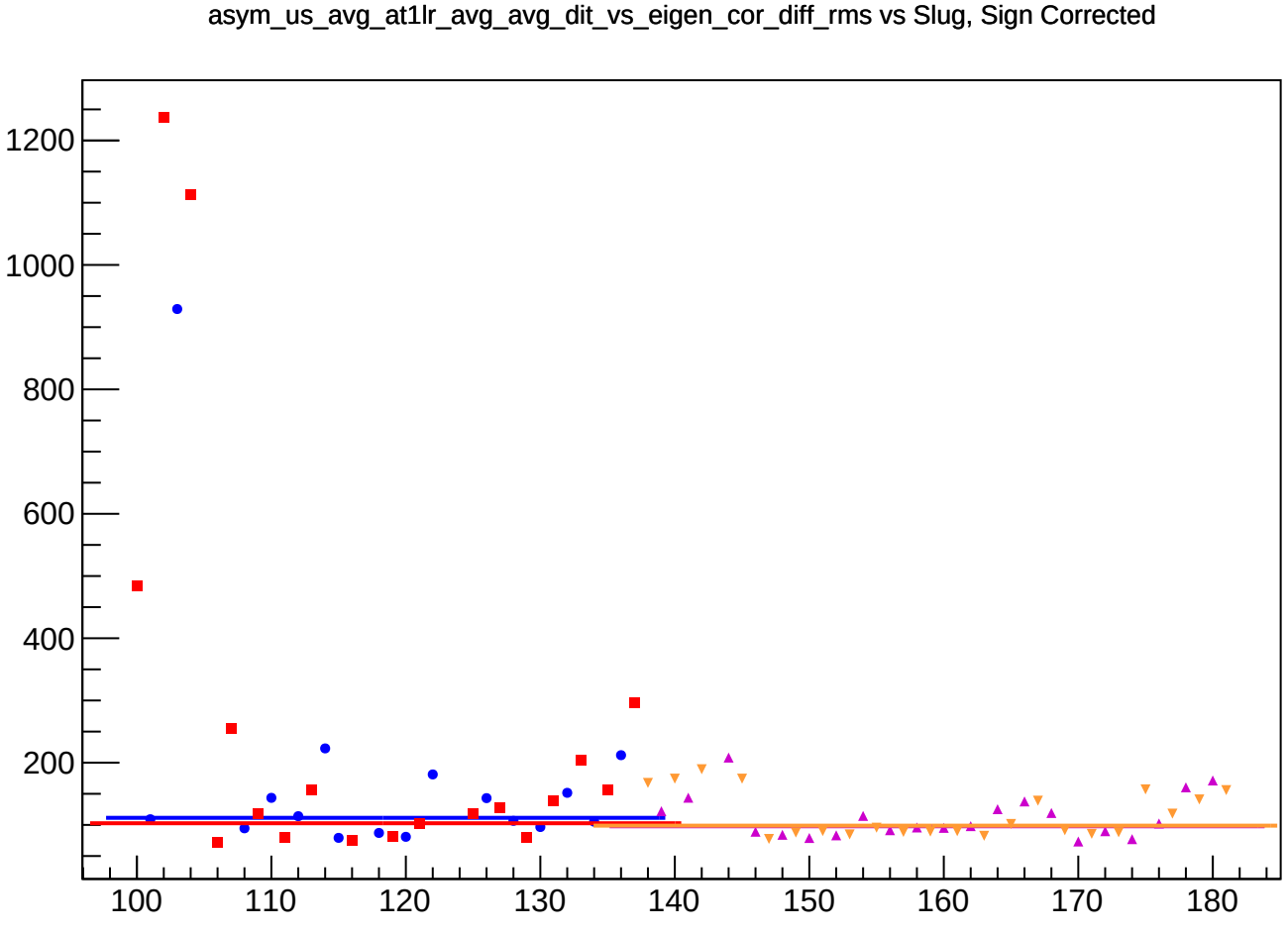
Left: -0.029+/-0.018 $\chi^2$/NDF: 54.9/42

Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.039+/-0.023 $\chi^2$/NDF:45.6/36

Out: -0.024+/-0.023 $\chi^2$/NDF:41.9/39

All: -0.031+/-0.016 $\chi^2$/NDF: 87.7/76




Right In: 111.407+/-0.034 $\chi^2$/NDF: 1839361.2/15

Left Out: 98.810+/-0.018 $\chi^2$/NDF:2006263.9/21

Right Out: 102.673+/-0.033 $\chi^2$/NDF: 2826852.7/17

Left In: 97.788+/-0.018 $\chi^2$/NDF:1937643.3/20

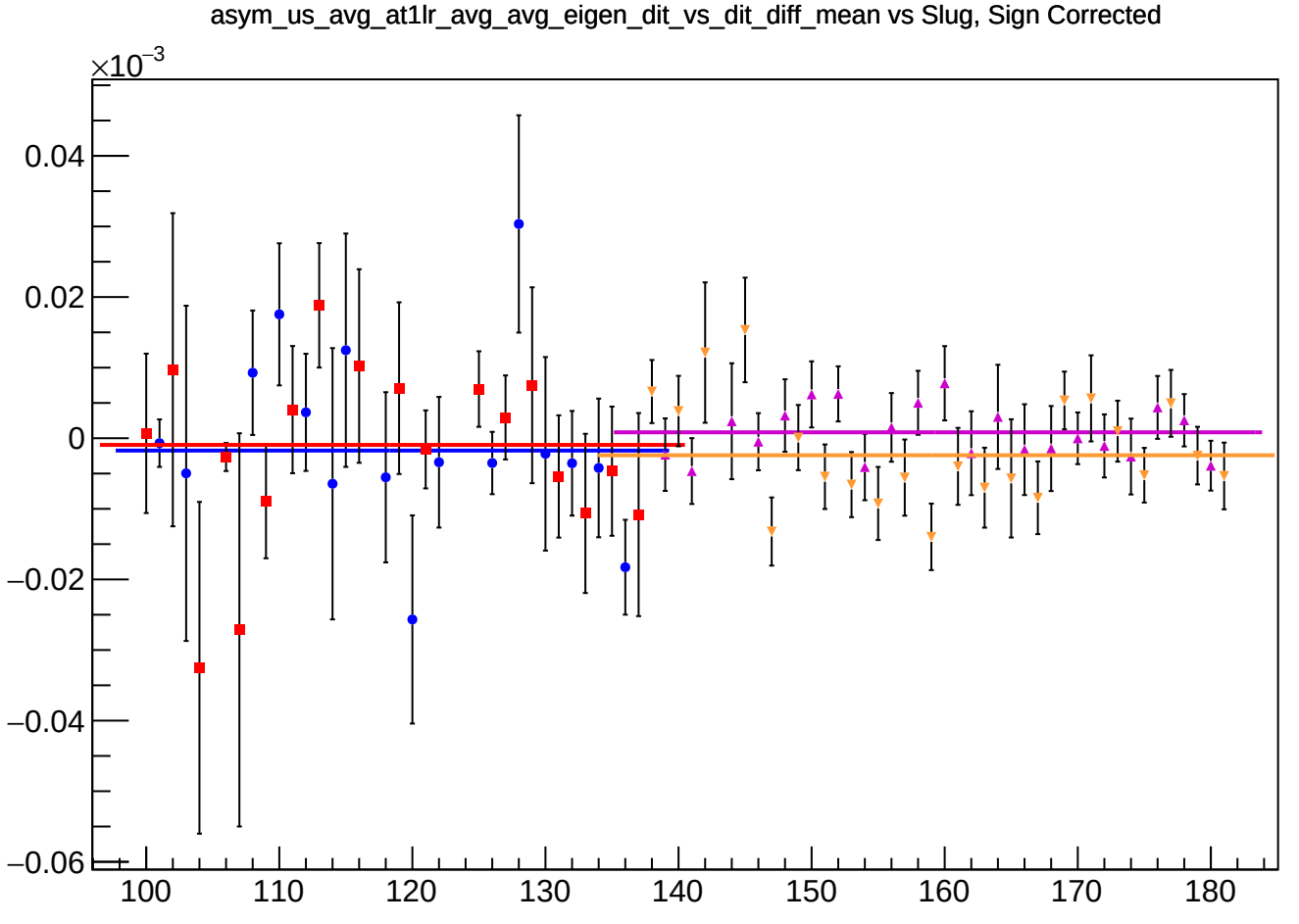
Left: 98.293+/-0.013 $\chi^2$/NDF: 3945476.9/42

Right: 106.926+/-0.024 $\chi^2$/NDF: 4700716.0/33

In: 100.850+/-0.016 $\chi^2$/NDF:3903756.8/36

Out: 99.729+/-0.016 $\chi^2$/NDF:4843679.3/39

All: 100.291+/-0.011 $\chi^2$/NDF: 8749894.3/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:39.8/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.0/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 57.6/42

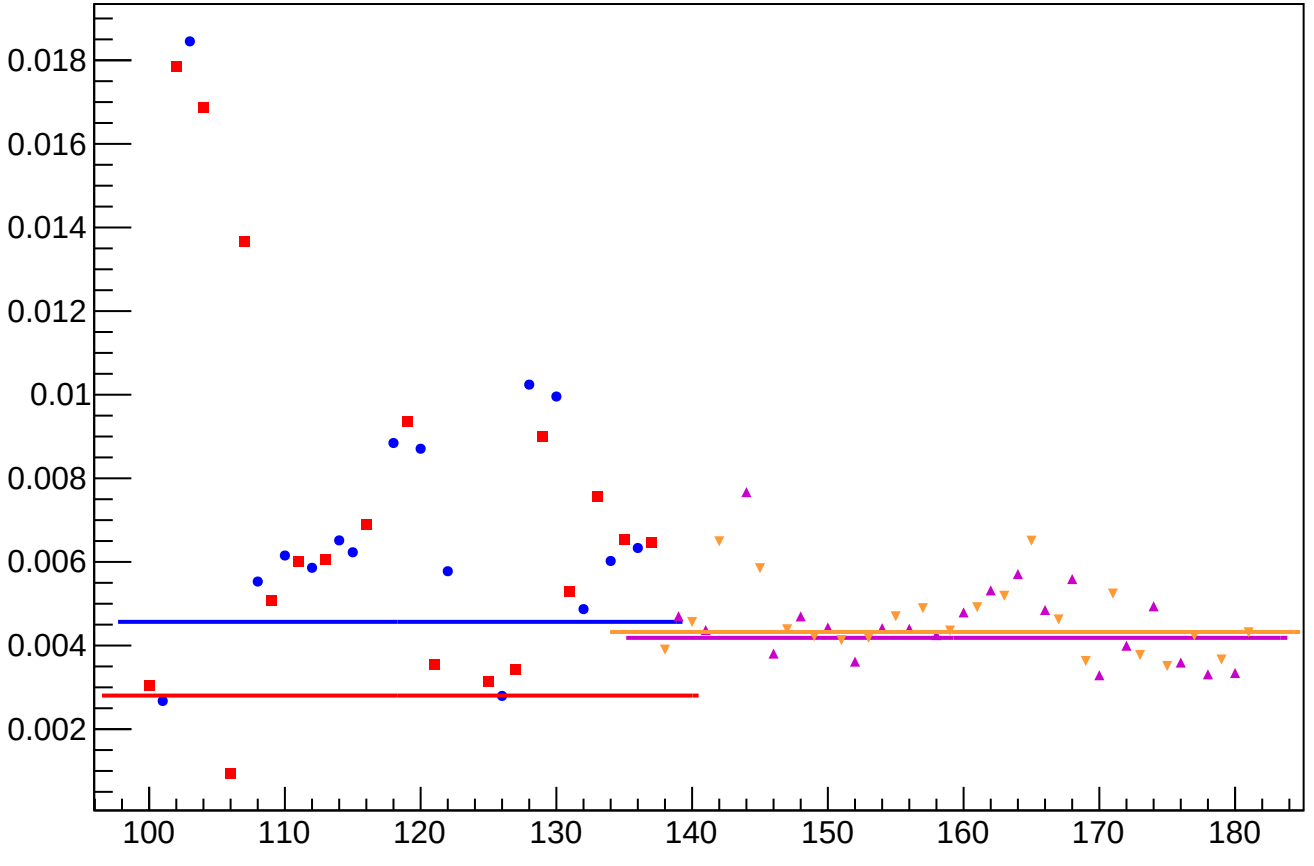
Right: -0.000+/-0.000 $\chi^2$/NDF: 35.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:34.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:56.2/39

All: -0.000+/-0.000 $\chi^2$/NDF: 93.6/76

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 3012257.6/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:732205.7/21

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6610011.8/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:1216158.3/20

Left: 0.004+/-0.000 $\chi^2$/NDF: 1966371.7/42

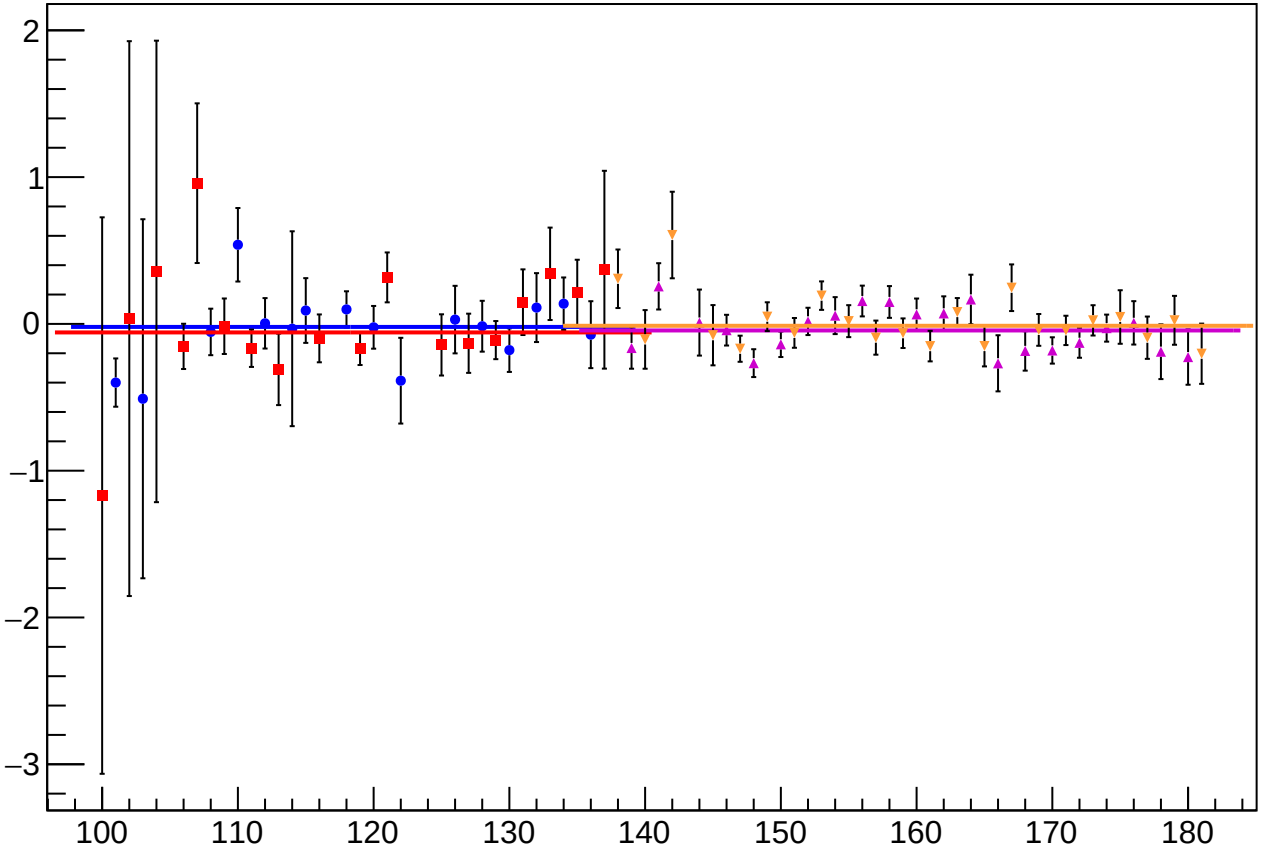
Right: 0.003+/-0.000 $\chi^2$/NDF: 10674508.6/33

In: 0.004+/-0.000 $\chi^2$/NDF:4289682.4/36

Out: 0.004+/-0.000 $\chi^2$/NDF:8741866.9/39

All: 0.004+/-0.000 $\chi^2$/NDF: 13301693.2/76

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.048 $\chi^2$/NDF: 15.6/15

Left Out: -0.013+/-0.026 $\chi^2$/NDF:24.3/21

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: -0.045+/-0.026 $\chi^2$/NDF:29.8/20

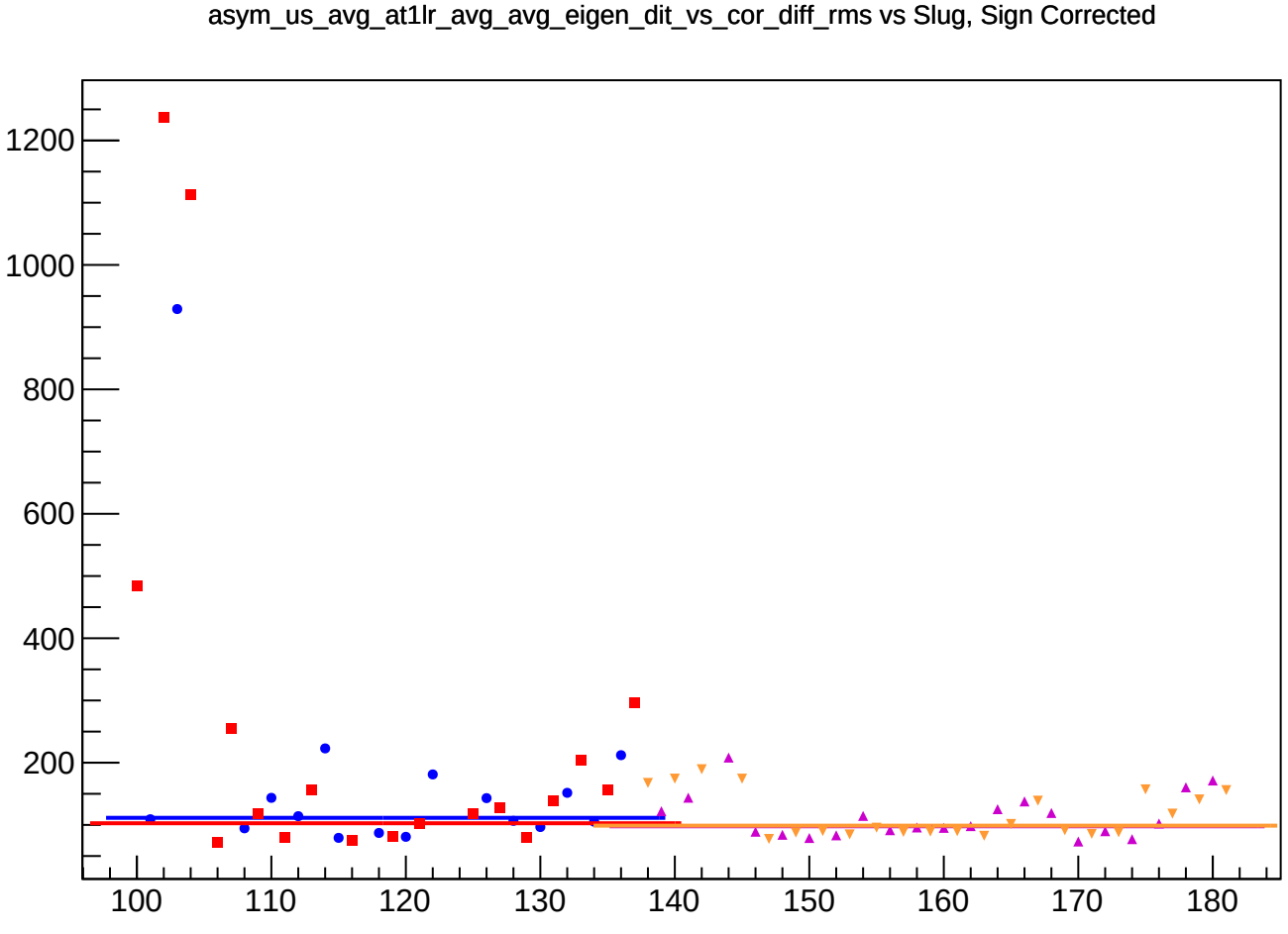
Left: -0.029+/-0.018 $\chi^2$/NDF: 54.9/42

Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.039+/-0.023 $\chi^2$/NDF:45.6/36

Out: -0.024+/-0.023 $\chi^2$/NDF:41.9/39

All: -0.031+/-0.016 $\chi^2$/NDF: 87.7/76




Right In: 111.404+/-0.034 $\chi^2$/NDF: 1839407.3/15

Left Out: 98.810+/-0.018 $\chi^2$/NDF:2006232.8/21

Right Out: 102.671+/-0.033 $\chi^2$/NDF: 2826848.2/17

Left In: 97.788+/-0.018 $\chi^2$/NDF:1937616.2/20

Left: 98.294+/-0.013 $\chi^2$/NDF: 3945419.5/42

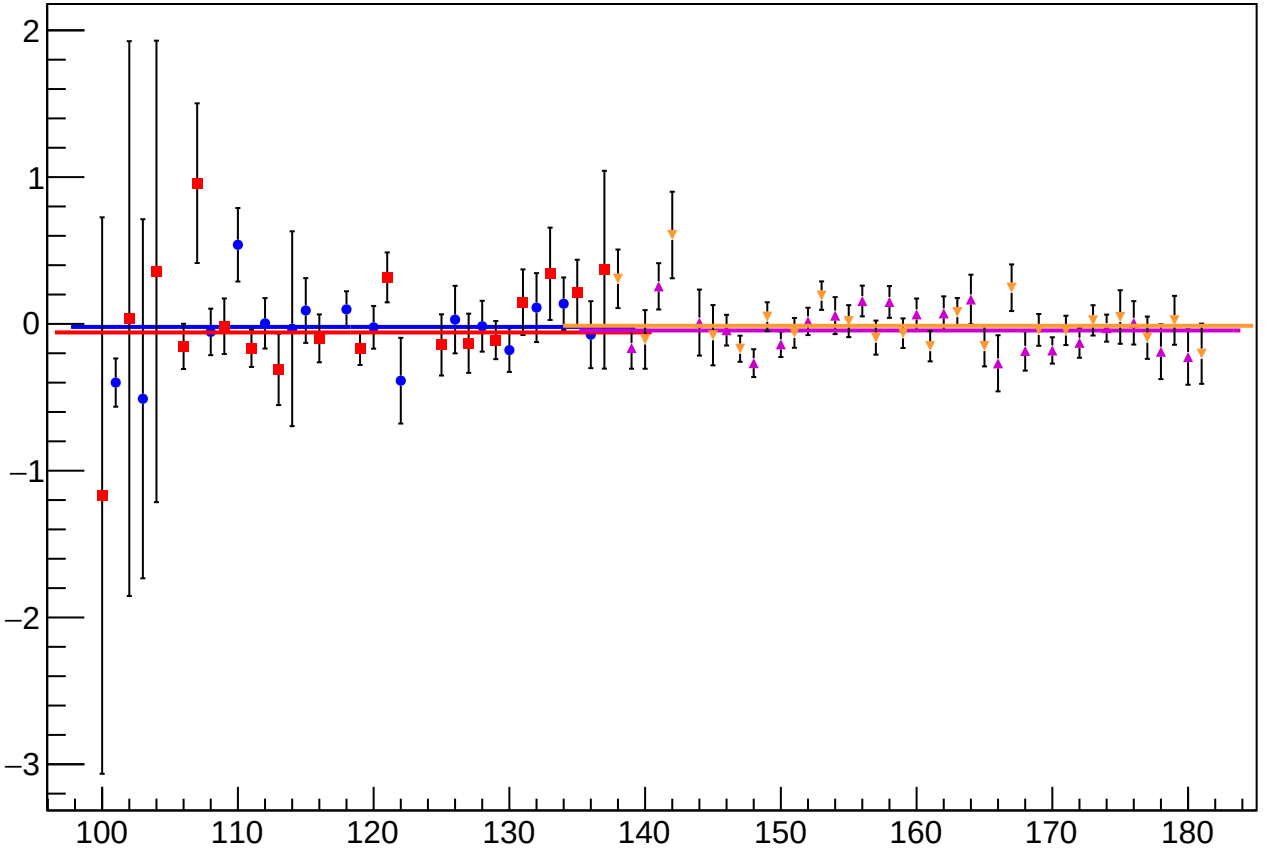
Right: 106.924+/-0.024 $\chi^2$/NDF: 4700749.9/33

In: 100.850+/-0.016 $\chi^2$/NDF:3903720.6/36

Out: 99.729+/-0.016 $\chi^2$/NDF:4843631.4/39

All: 100.291+/-0.011 $\chi^2$/NDF: 8749808.7/76

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.048 $\chi^2$/NDF: 15.6/15

Left Out: -0.013+/-0.026 $\chi^2$/NDF:24.3/21

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: -0.045+/-0.026 $\chi^2$/NDF:29.8/20

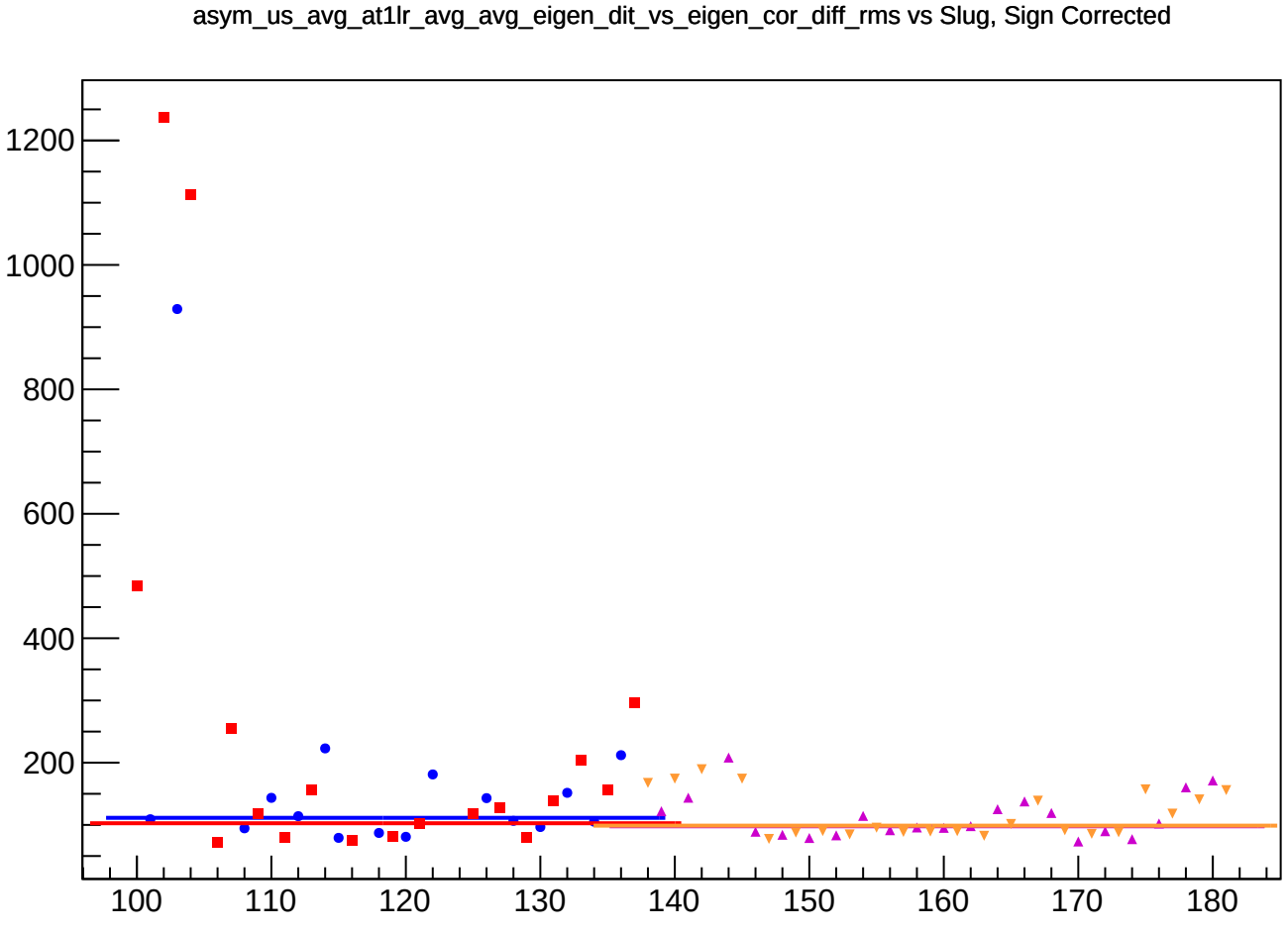
Left: -0.029+/-0.018 $\chi^2$/NDF: 54.9/42

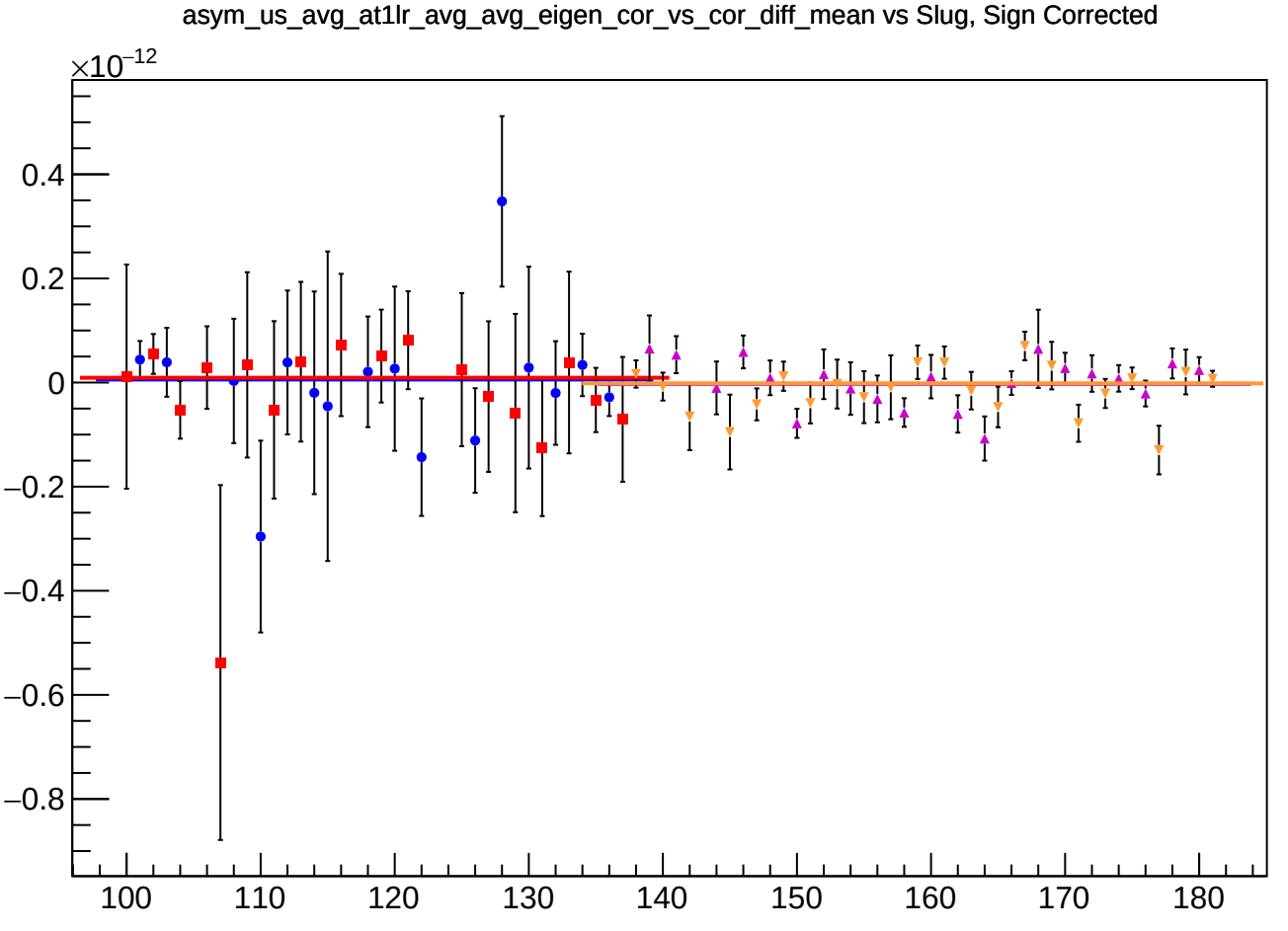
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.039+/-0.023 $\chi^2$/NDF:45.6/36

Out: -0.024+/-0.023 $\chi^2$/NDF:41.9/39

All: -0.031+/-0.016 $\chi^2$/NDF: 87.7/76


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
1200
1000
800
600
400
200
100
110
120
130
140
150
160
170
180
Right In: 111.404+/-0.034 χ²/NDF: 1839407.3/15
Left Out: 98.810+/-0.018 χ²/NDF:2006232.8/21
Right Out: 102.671+/-0.033 χ²/NDF: 2826848.2/17
Left In: 97.788+/-0.018 χ²/NDF:1937616.2/20
Left: 98.294+/-0.013 χ²/NDF: 3945419.5/42
Right: 106.924+/-0.024 χ²/NDF: 4700749.9/33
In: 100.850+/-0.016 χ²/NDF:3903720.6/36
Out: 99.729+/-0.016 χ²/NDF:4843631.4/39
All: 100.291+/-0.011 χ²/NDF: 8749808.7/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:32.0/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 8.7/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:34.3/20

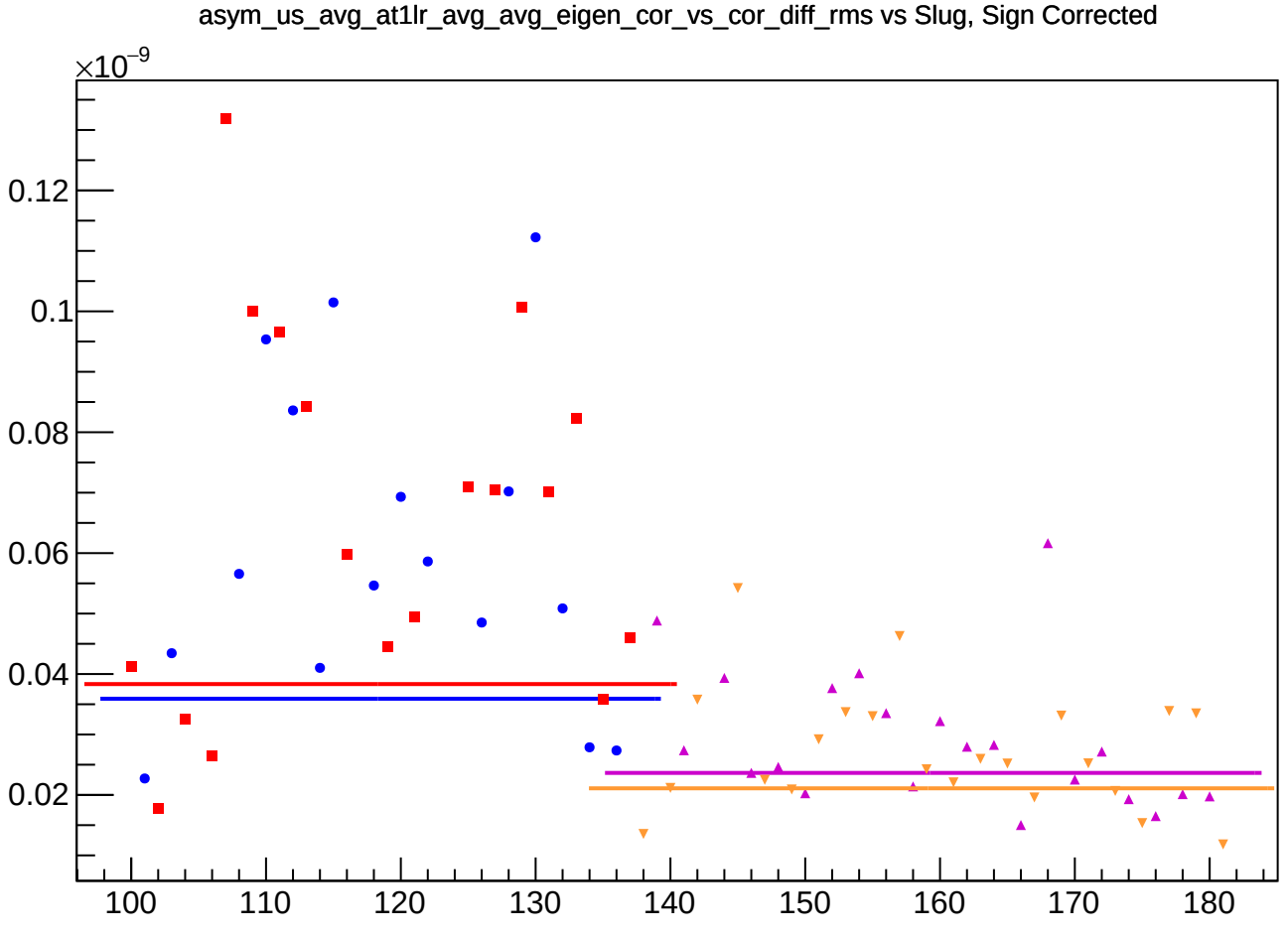
Left: -0.000+/-0.000 $\chi^2$/NDF: 66.3/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 21.6/33

In: -0.000+/-0.000 $\chi^2$/NDF:47.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:40.9/39

All: -0.000+/-0.000 $\chi^2$/NDF: 88.3/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1759038.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2824872.4/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2202319.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2318432.8/20

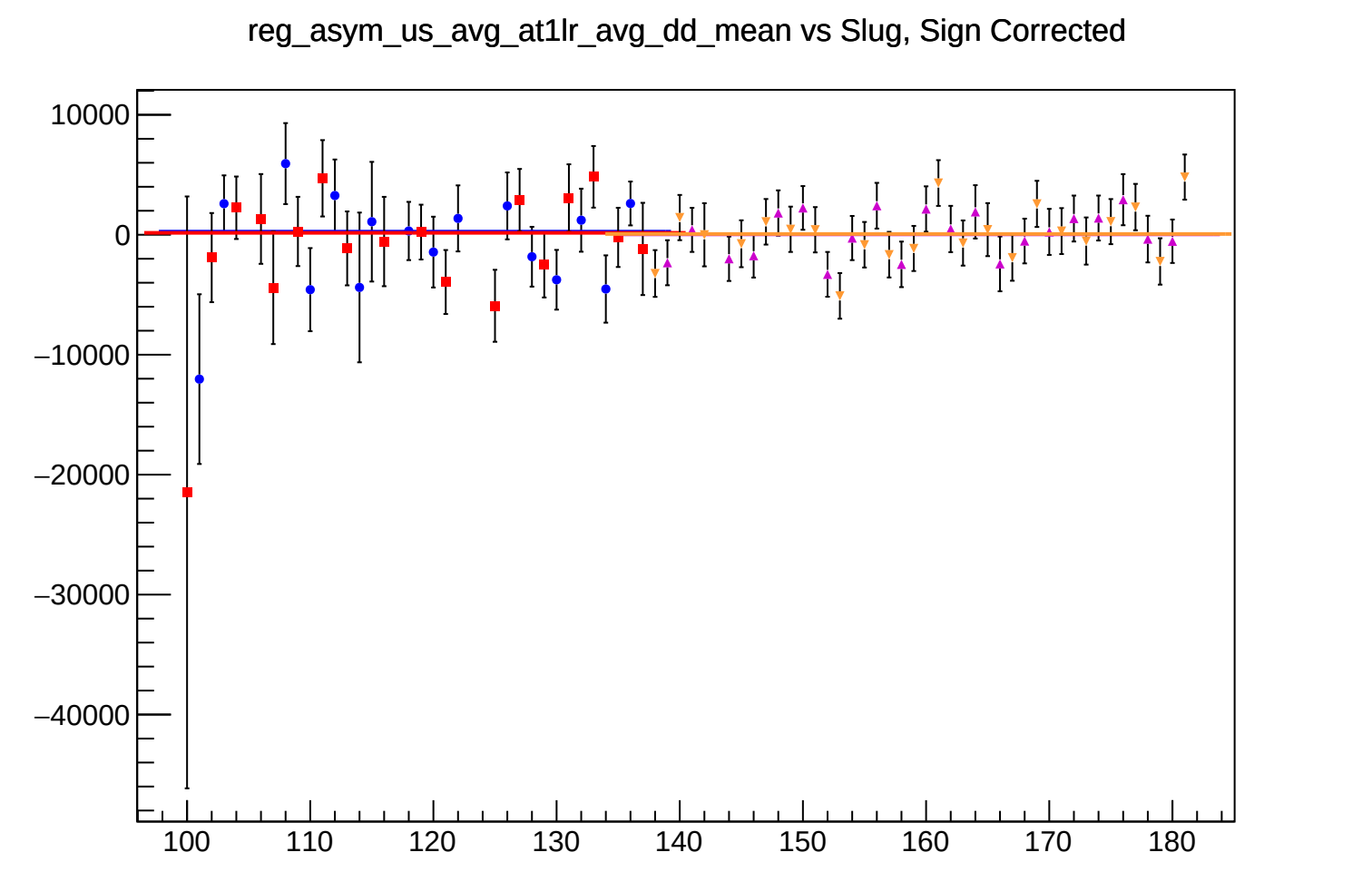
Left: 0.000+/-0.000 $\chi^2$/NDF: 5277721.8/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 3975413.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:4794732.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6188642.9/39

All: 0.000+/-0.000 $\chi^2$/NDF: 11133961.2/76




Right In: 259.502+/-709.700 $\chi^2$/NDF: 19.4/15

Left Out: 63.836+/-414.018 $\chi^2$/NDF:30.1/21

Right Out: 159.330+/-712.314 $\chi^2$/NDF: 18.1/17

Left In: 34.494+/-417.479 $\chi^2$/NDF:18.9/20

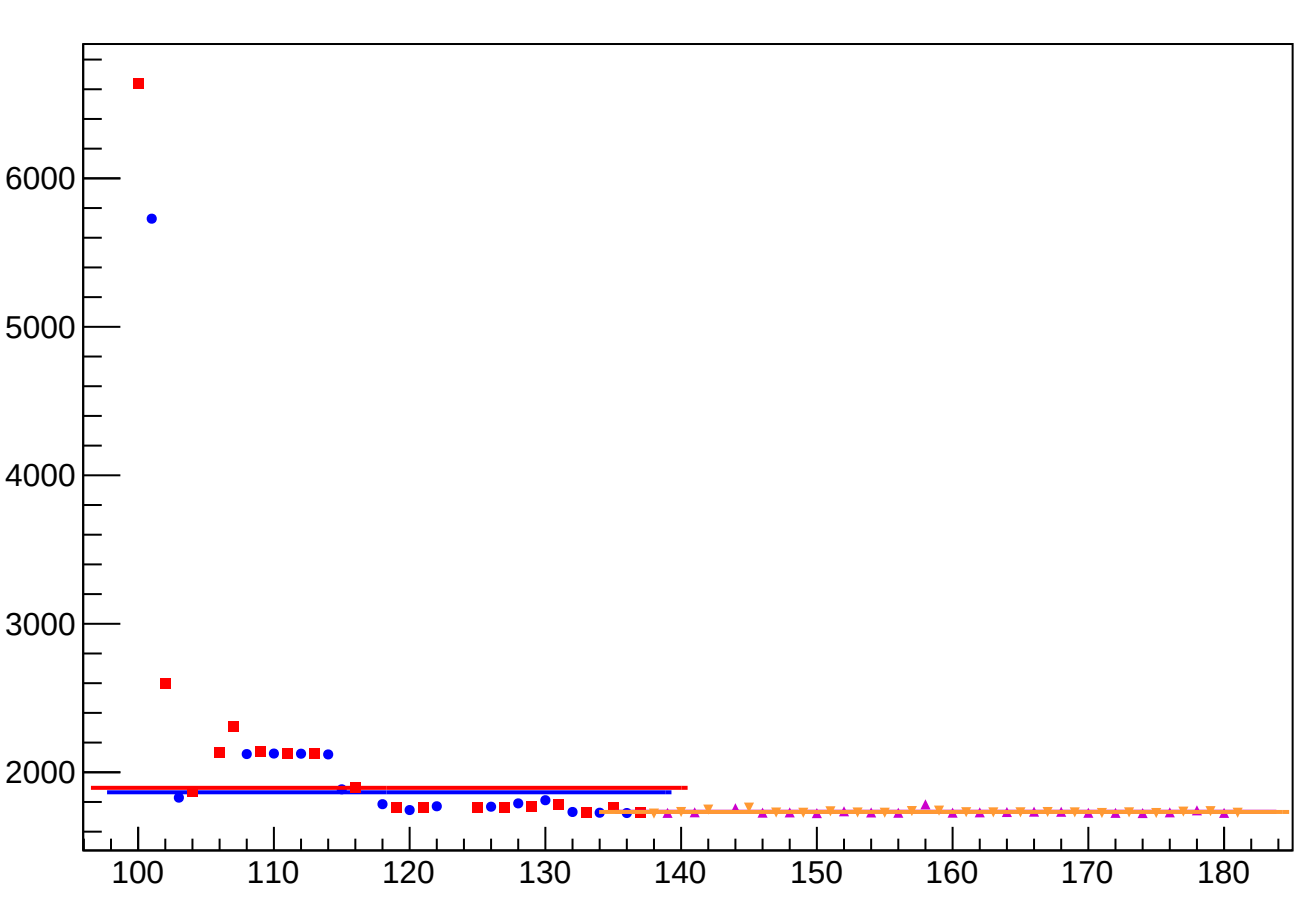
Left: 49.287+/-293.971 $\chi^2$/NDF: 49.1/42

Right: 209.600+/-502.755 $\chi^2$/NDF: 37.5/33

In: 92.338+/-359.838 $\chi^2$/NDF:38.4/36

Out: 87.950+/-357.947 $\chi^2$/NDF:48.2/39

All: 90.133+/-253.773 $\chi^2$/NDF: 86.7/76




Right In: 1865.170+/-0.502 $\chi^2$/NDF: 672724.7/15

Left Out: 1732.783+/-0.293 $\chi^2$/NDF:807.6/21

Right Out: 1895.250+/-0.504 $\chi^2$/NDF: 250806.5/17

Left In: 1734.155+/-0.295 $\chi^2$/NDF:2096.2/20

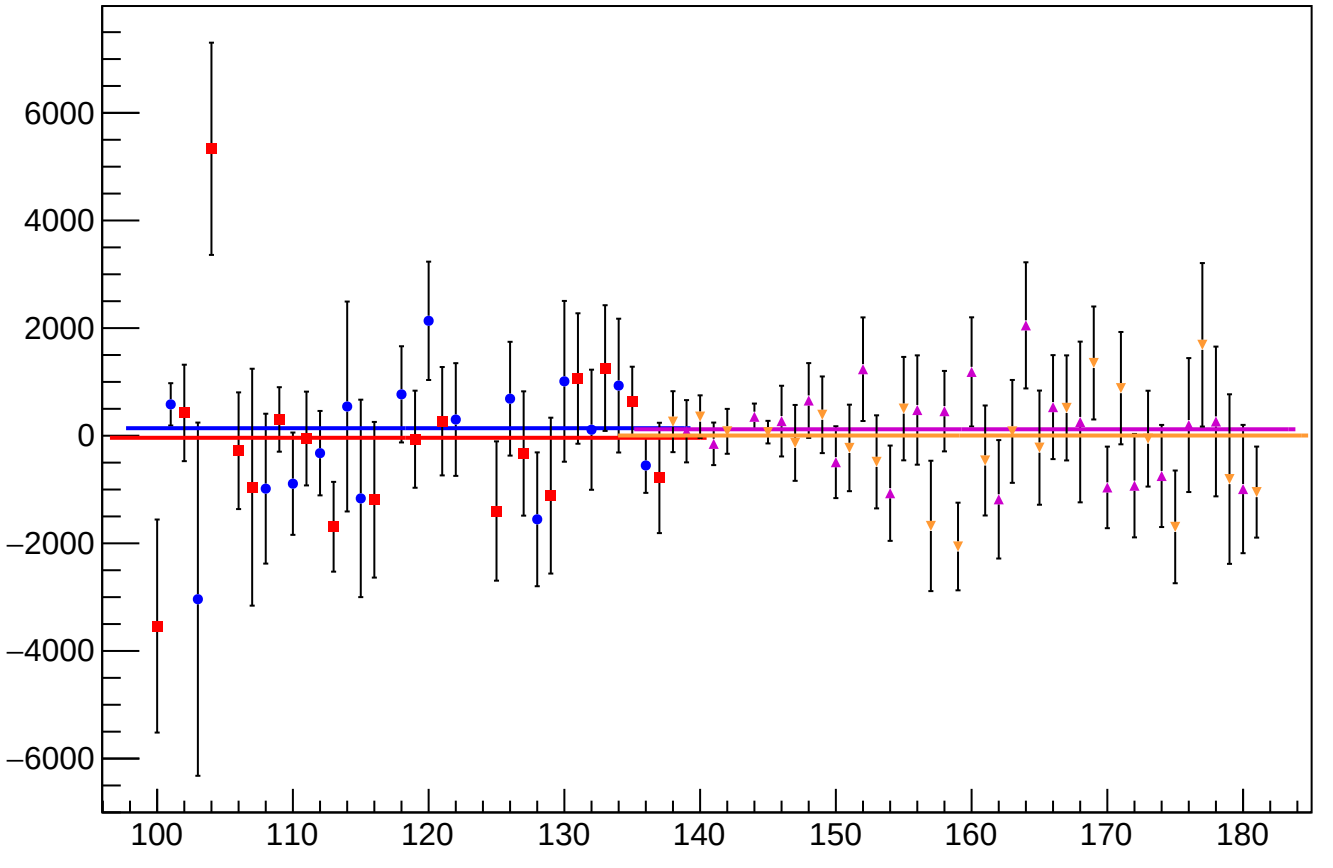
Left: 1733.463+/-0.208 $\chi^2$/NDF: 2914.7/42

Right: 1880.155+/-0.356 $\chi^2$/NDF: 925321.0/33

In: 1767.836+/-0.254 $\chi^2$/NDF:725458.3/36

Out: 1773.809+/-0.253 $\chi^2$/NDF:329385.1/39

All: 1770.838+/-0.179 $\chi^2$/NDF: 1055120.4/76




Right In: 139.799+/-220.100 $\chi^2$/NDF: 13.5/15

Left Out: 3.727+/-130.969 $\chi^2$/NDF:19.0/21

Right Out: -38.629+/-238.253 $\chi^2$/NDF: 21.4/17

Left In: 119.759+/-144.904 $\chi^2$/NDF:16.7/20

Left: 55.896+/-97.163 $\chi^2$/NDF: 36.1/42

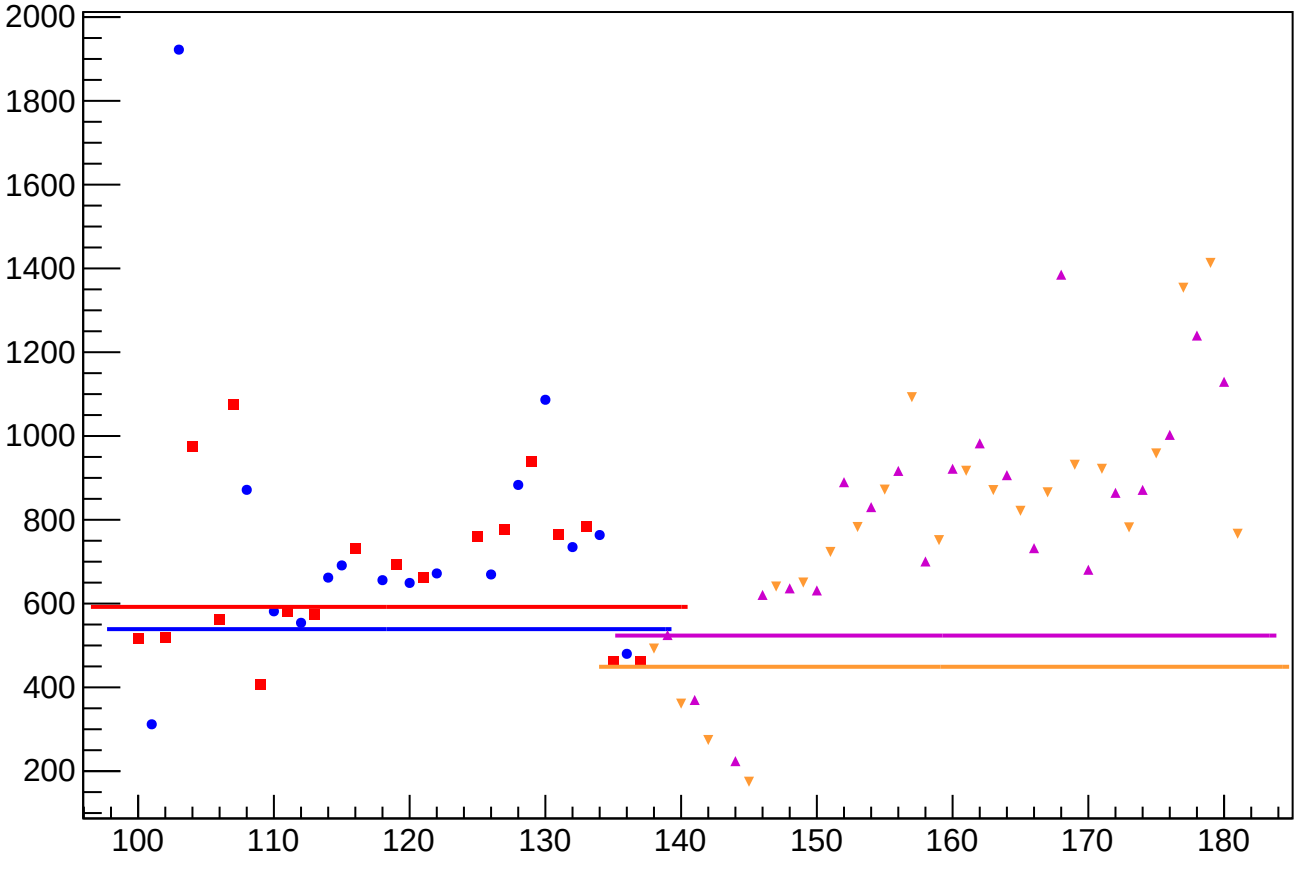
Right: 57.640+/-161.672 $\chi^2$/NDF: 35.2/33

In: 125.818+/-121.030 $\chi^2$/NDF:30.1/36

Out: -6.102+/-114.771 $\chi^2$/NDF:40.4/39

All: 56.359+/-83.280 $\chi^2$/NDF: 71.2/76

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 539.016+/-0.156 $\chi^2$/NDF: 1854576.5/15

Left Out: 449.157+/-0.093 $\chi^2$/NDF:10684904.4/21

Right Out: 592.101+/-0.168 $\chi^2$/NDF: 843066.1/17

Left In: 523.641+/-0.102 $\chi^2$/NDF:7959697.0/20

Left: 482.646+/-0.069 $\chi^2$/NDF: 18935441.0/42

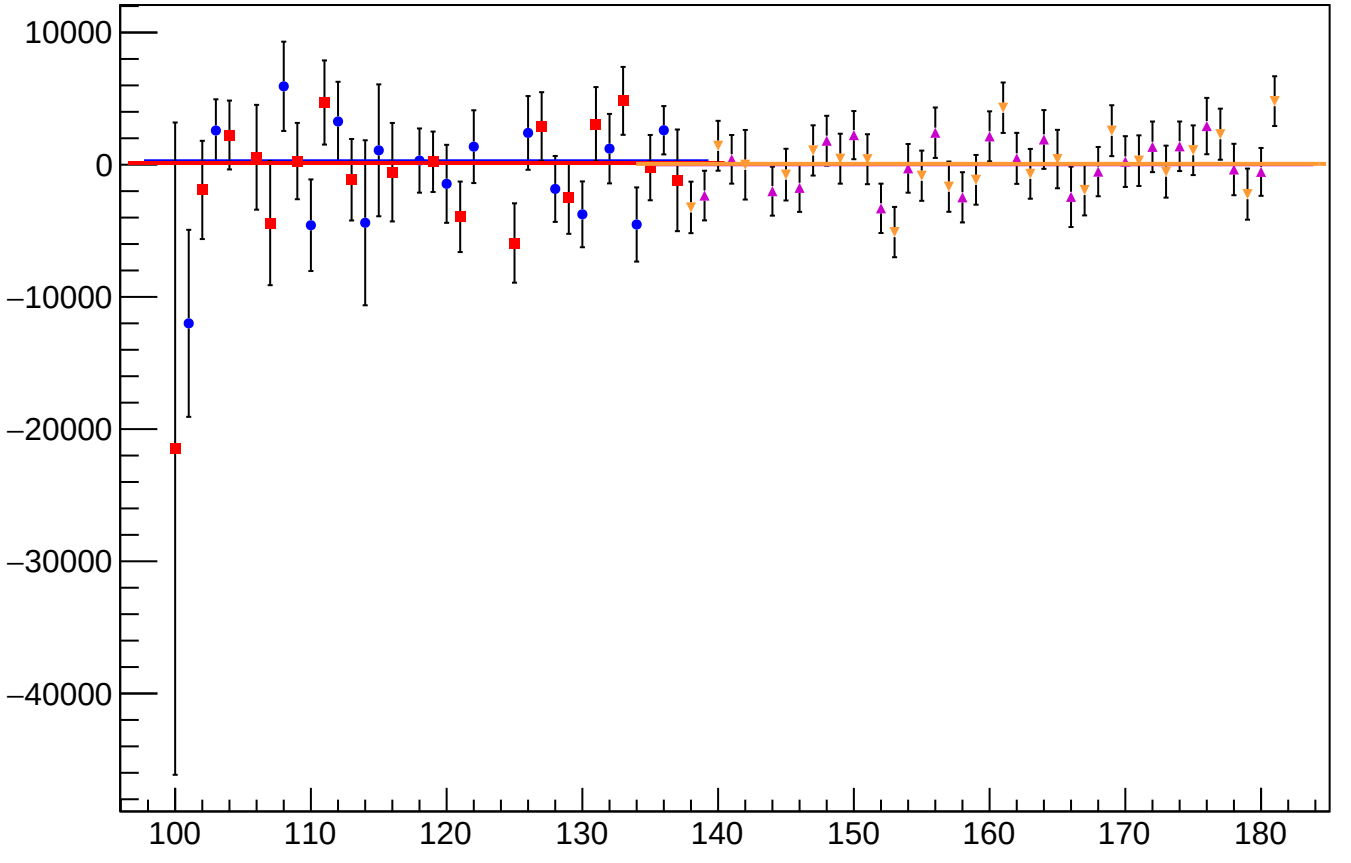
Right: 563.459+/-0.114 $\chi^2$/NDF: 2751212.3/33

In: 528.290+/-0.086 $\chi^2$/NDF:9821082.5/36

Out: 482.328+/-0.081 $\chi^2$/NDF:12080828.9/39

All: 504.090+/-0.059 $\chi^2$/NDF: 22053776.8/76

cor_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected




Right In: 259.689+/-709.700 $\chi^2$/NDF: 19.4/15

Left Out: 63.894+/-414.018 $\chi^2$/NDF:30.1/21

Right Out: 130.049+/-713.724 $\chi^2$/NDF: 18.0/17

Left In: 34.409+/-417.479 $\chi^2$/NDF:18.9/20

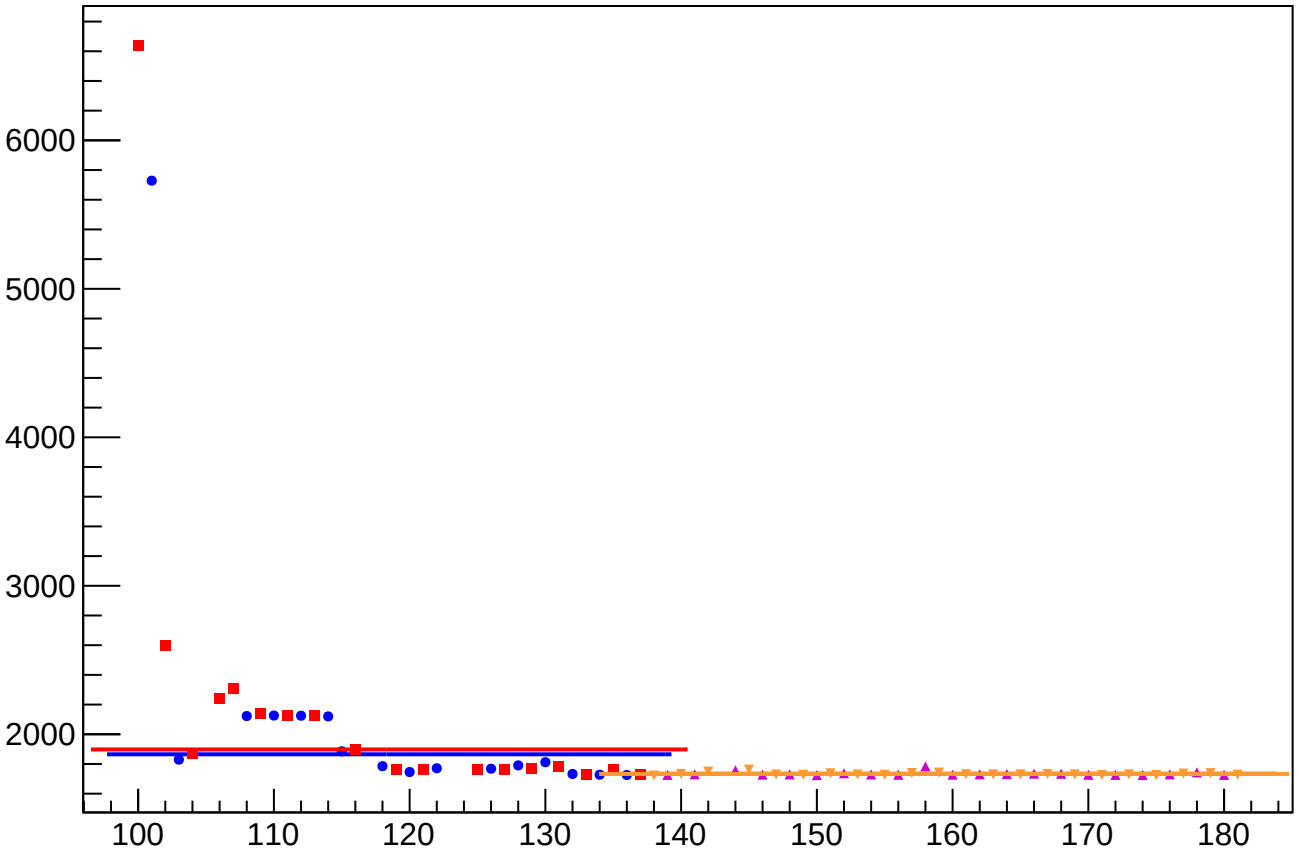
Left: 49.274+/-293.971 $\chi^2$/NDF: 49.1/42

Right: 195.236+/-503.250 $\chi^2$/NDF: 37.4/33

In: 92.323+/-359.838 $\chi^2$/NDF:38.4/36

Out: 80.550+/-358.126 $\chi^2$/NDF:48.1/39

All: 86.409+/-253.836 $\chi^2$/NDF: 86.6/76




Right In: 1865.170+/-0.502 $\chi^2$/NDF: 672724.7/15

Left Out: 1732.783+/-0.293 $\chi^2$/NDF:807.6/21

Right Out: 1897.700+/-0.505 $\chi^2$/NDF: 257735.0/17

Left In: 1734.155+/-0.295 $\chi^2$/NDF:2096.2/20

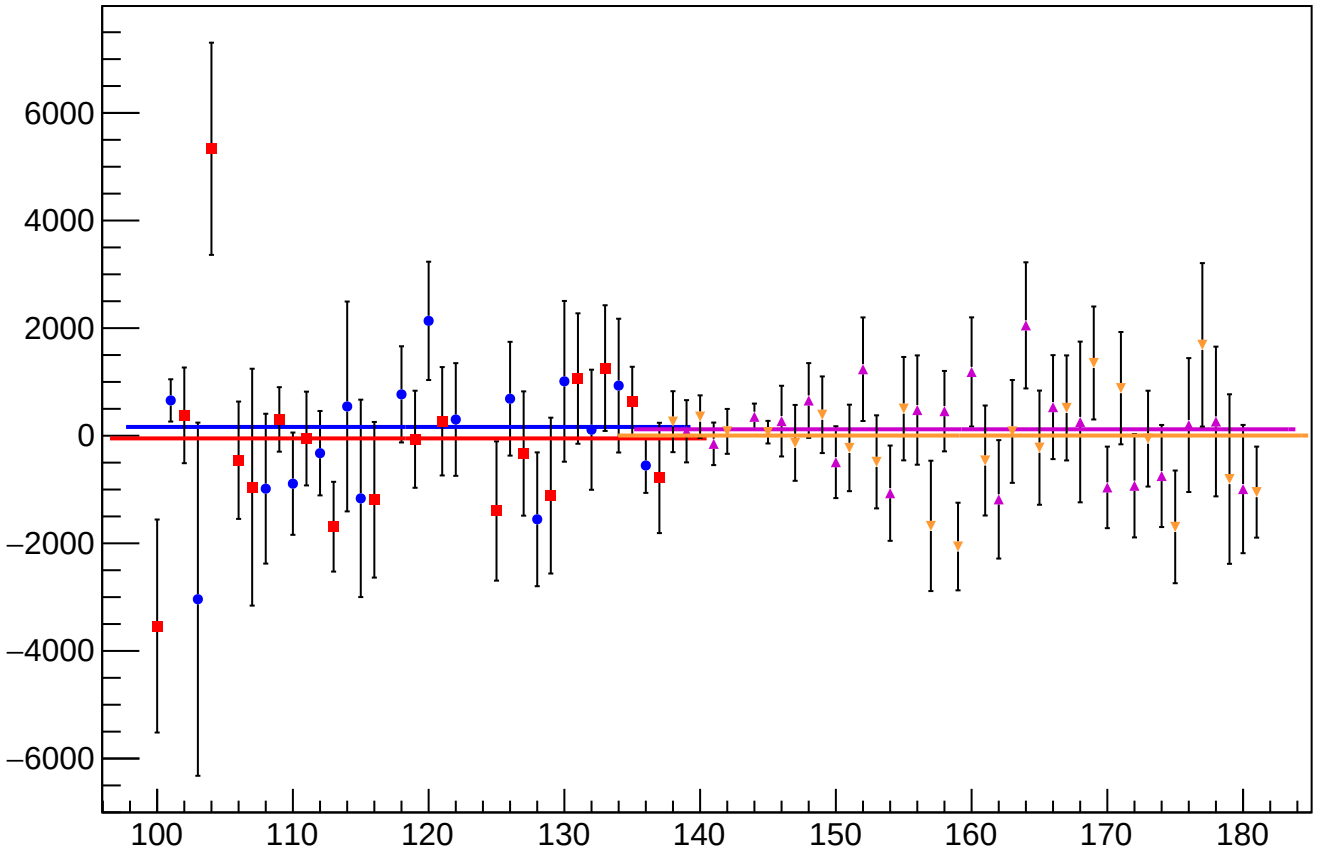
Left: 1733.463+/-0.208 $\chi^2$/NDF: 2914.7/42

Right: 1881.343+/-0.356 $\chi^2$/NDF: 932548.8/33

In: 1767.836+/-0.254 $\chi^2$/NDF:725458.1/36

Out: 1774.305+/-0.253 $\chi^2$/NDF:338440.7/39

All: 1771.086+/-0.179 $\chi^2$/NDF: 1064223.6/76




Right In: 163.149+/-220.024 $\chi^2$/NDF: 13.9/15

Left Out: 3.605+/-130.971 $\chi^2$/NDF:19.0/21

Right Out: -49.618+/-238.198 $\chi^2$/NDF: 21.4/17

Left In: 119.731+/-144.904 $\chi^2$/NDF:16.7/20

Left: 55.818+/-97.164 $\chi^2$/NDF: 36.1/42

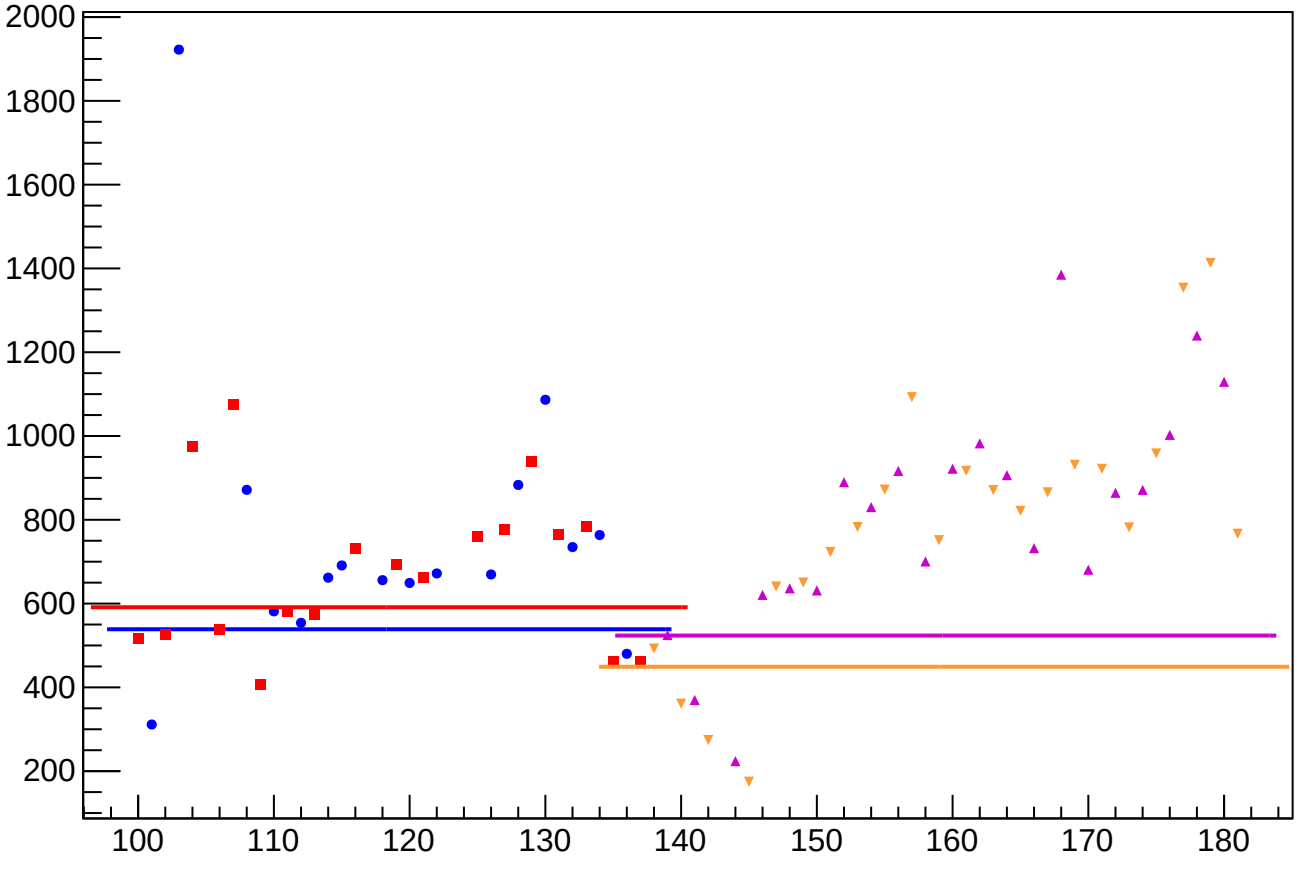
Right: 65.191+/-161.624 $\chi^2$/NDF: 35.8/33

In: 132.866+/-121.017 $\chi^2$/NDF:30.6/36

Out: -8.750+/-114.766 $\chi^2$/NDF:40.5/39

All: 58.306+/-83.274 $\chi^2$/NDF: 71.8/76

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 538.703+/-0.156 $\chi^2$/NDF: 1858892.9/15

Left Out: 449.167+/-0.093 $\chi^2$/NDF:10684512.4/21

Right Out: 591.241+/-0.168 $\chi^2$/NDF: 844536.8/17

Left In: 523.648+/-0.102 $\chi^2$/NDF:7959186.0/20

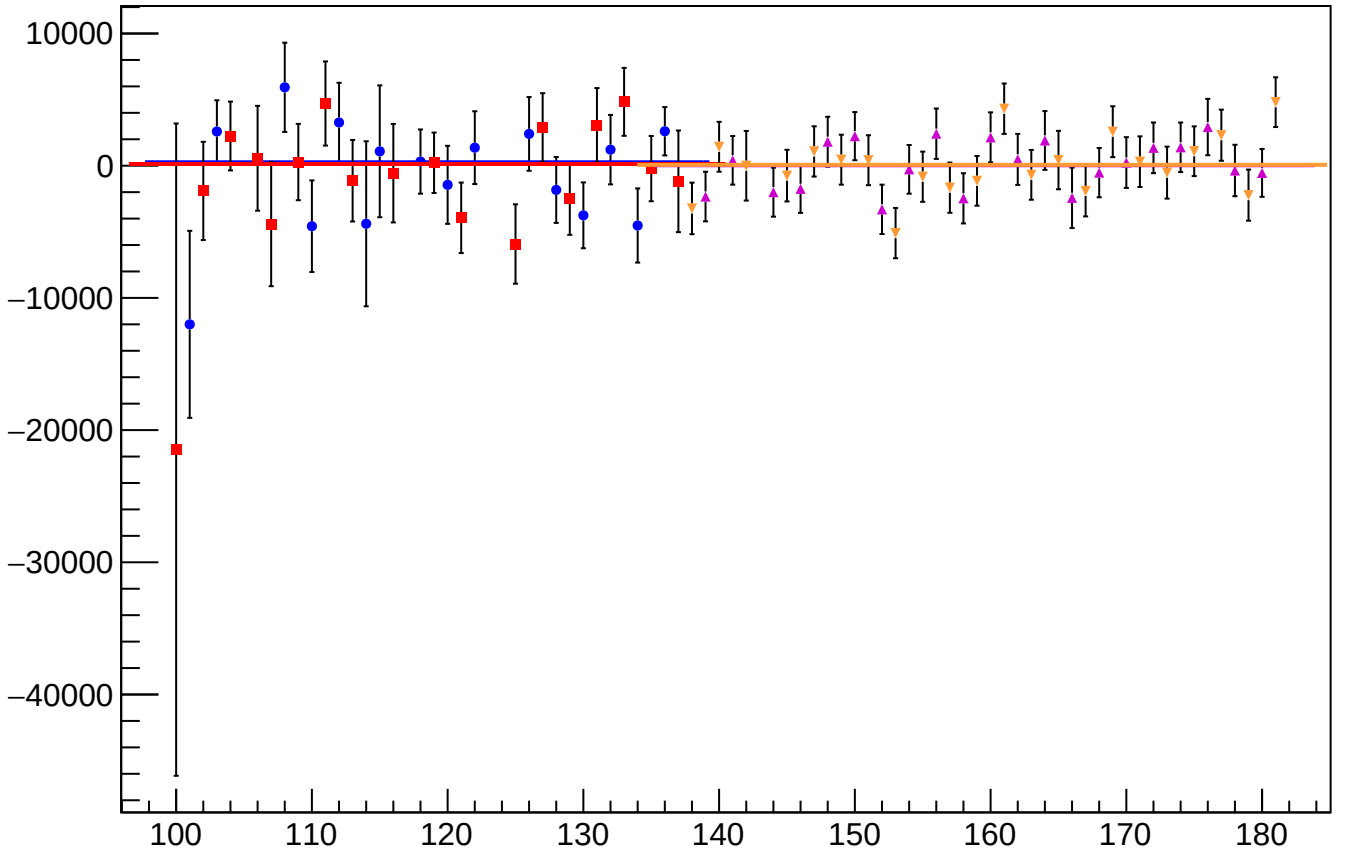
Left: 482.655+/-0.069 $\chi^2$/NDF: 18934513.9/42

Right: 562.892+/-0.114 $\chi^2$/NDF: 2755931.5/33

In: 528.203+/-0.086 $\chi^2$/NDF:9824610.0/36

Out: 482.149+/-0.081 $\chi^2$/NDF:12075392.4/39

All: 503.956+/-0.059 $\chi^2$/NDF: 22052499.5/76




Right In: 259.689+/-709.700 $\chi^2$/NDF: 19.4/15

Left Out: 63.894+/-414.018 $\chi^2$/NDF:30.1/21

Right Out: 130.049+/-713.724 $\chi^2$/NDF: 18.0/17

Left In: 34.409+/-417.479 $\chi^2$/NDF:18.9/20

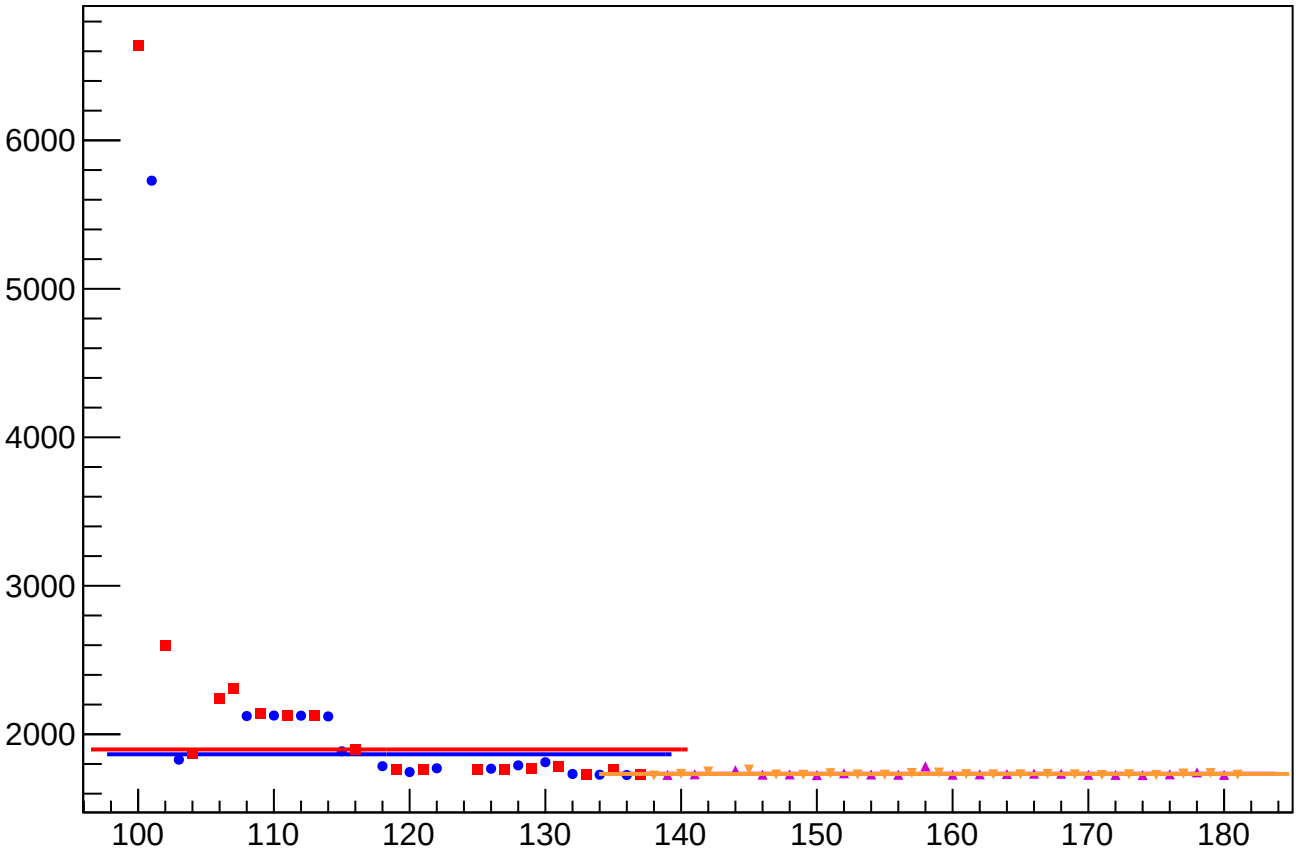
Left: 49.274+/-293.971 $\chi^2$/NDF: 49.1/42

Right: 195.236+/-503.250 $\chi^2$/NDF: 37.4/33

In: 92.323+/-359.838 $\chi^2$/NDF:38.4/36

Out: 80.550+/-358.126 $\chi^2$/NDF:48.1/39

All: 86.409+/-253.836 $\chi^2$/NDF: 86.6/76




Right In: 1865.170+/-0.502 $\chi^2$/NDF: 672724.7/15

Left Out: 1732.783+/-0.293 $\chi^2$/NDF:807.6/21

Right Out: 1897.700+/-0.505 $\chi^2$/NDF: 257735.0/17

Left In: 1734.155+/-0.295 $\chi^2$/NDF:2096.2/20

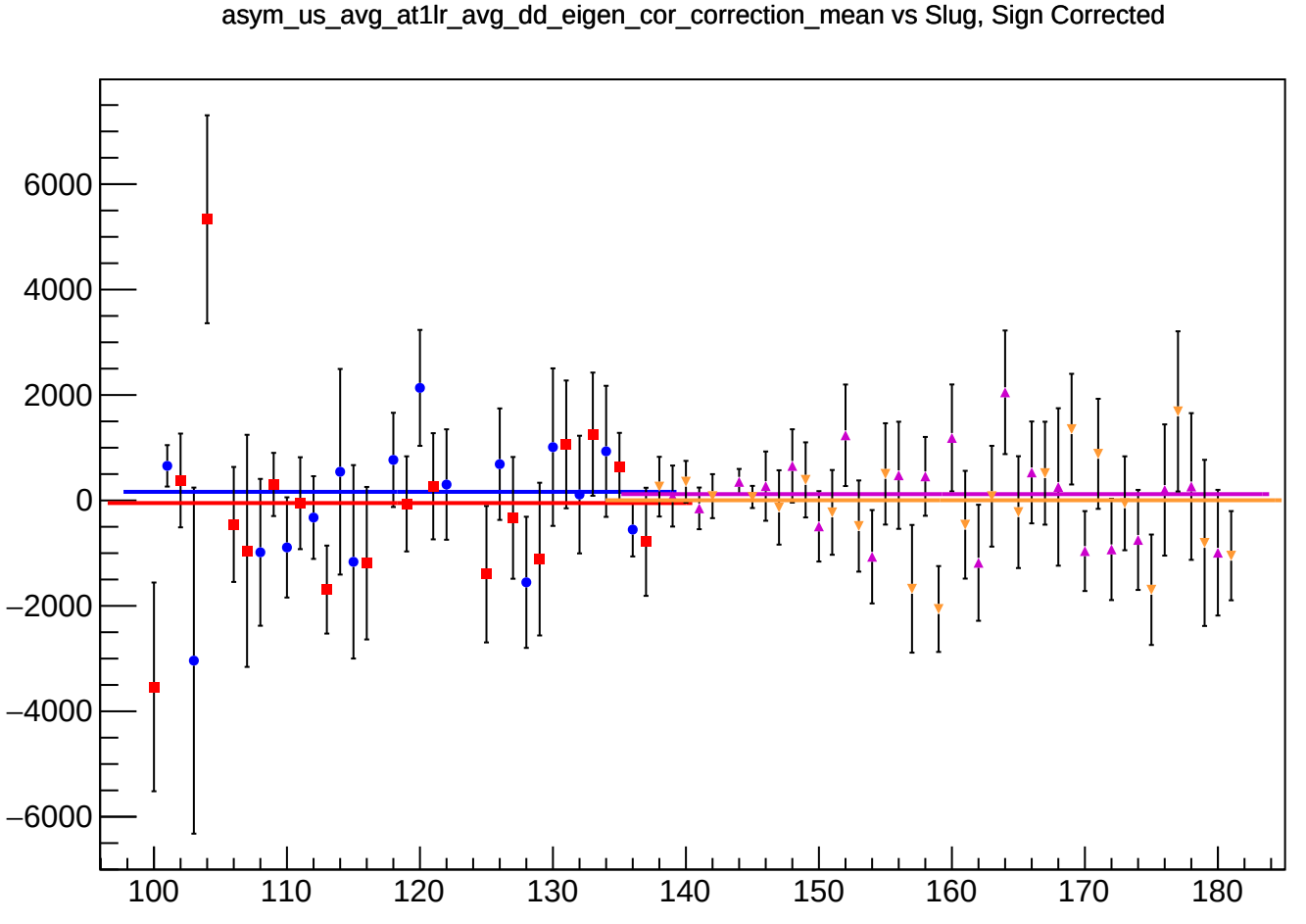
Left: 1733.463+/-0.208 $\chi^2$/NDF: 2914.7/42

Right: 1881.343+/-0.356 $\chi^2$/NDF: 932548.8/33

In: 1767.836+/-0.254 $\chi^2$/NDF:725458.1/36

Out: 1774.305+/-0.253 $\chi^2$/NDF:338440.7/39

All: 1771.086+/-0.179 $\chi^2$/NDF: 1064223.6/76




Right In: 163.149+/-220.024 $\chi^2$/NDF: 13.9/15

Left Out: 3.605+/-130.971 $\chi^2$/NDF:19.0/21

Right Out: -49.618+/-238.198 $\chi^2$/NDF: 21.4/17

Left In: 119.731+/-144.904 $\chi^2$/NDF:16.7/20

Left: 55.818+/-97.164 $\chi^2$/NDF: 36.1/42

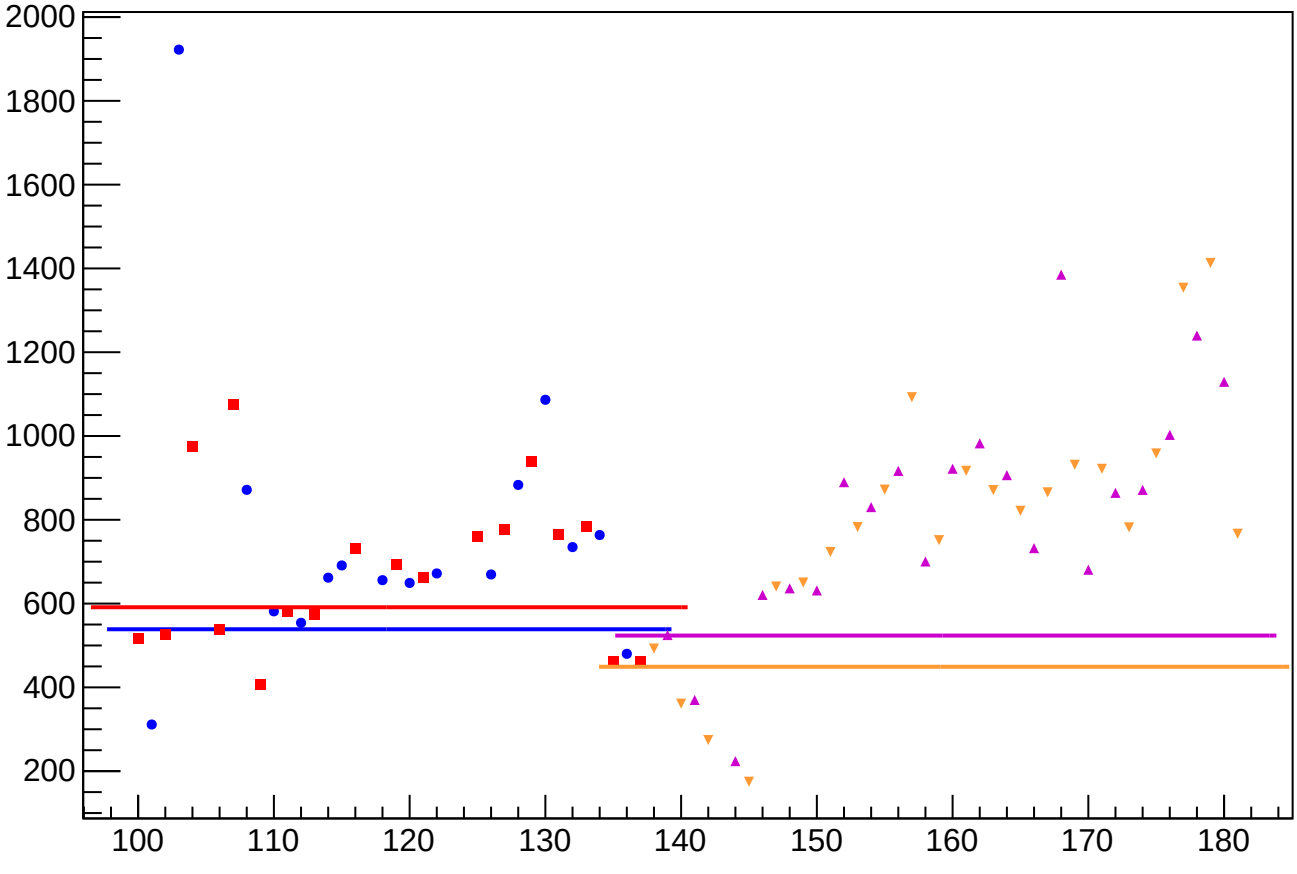
Right: 65.191+/-161.624 $\chi^2$/NDF: 35.8/33

In: 132.866+/-121.017 $\chi^2$/NDF:30.6/36

Out: -8.750+/-114.766 $\chi^2$/NDF:40.5/39

All: 58.306+/-83.274 $\chi^2$/NDF: 71.8/76

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 538.703+/-0.156 $\chi^2$/NDF: 1858892.9/15

Left Out: 449.167+/-0.093 $\chi^2$/NDF:10684512.4/21

Right Out: 591.241+/-0.168 $\chi^2$/NDF: 844536.8/17

Left In: 523.648+/-0.102 $\chi^2$/NDF:7959186.0/20

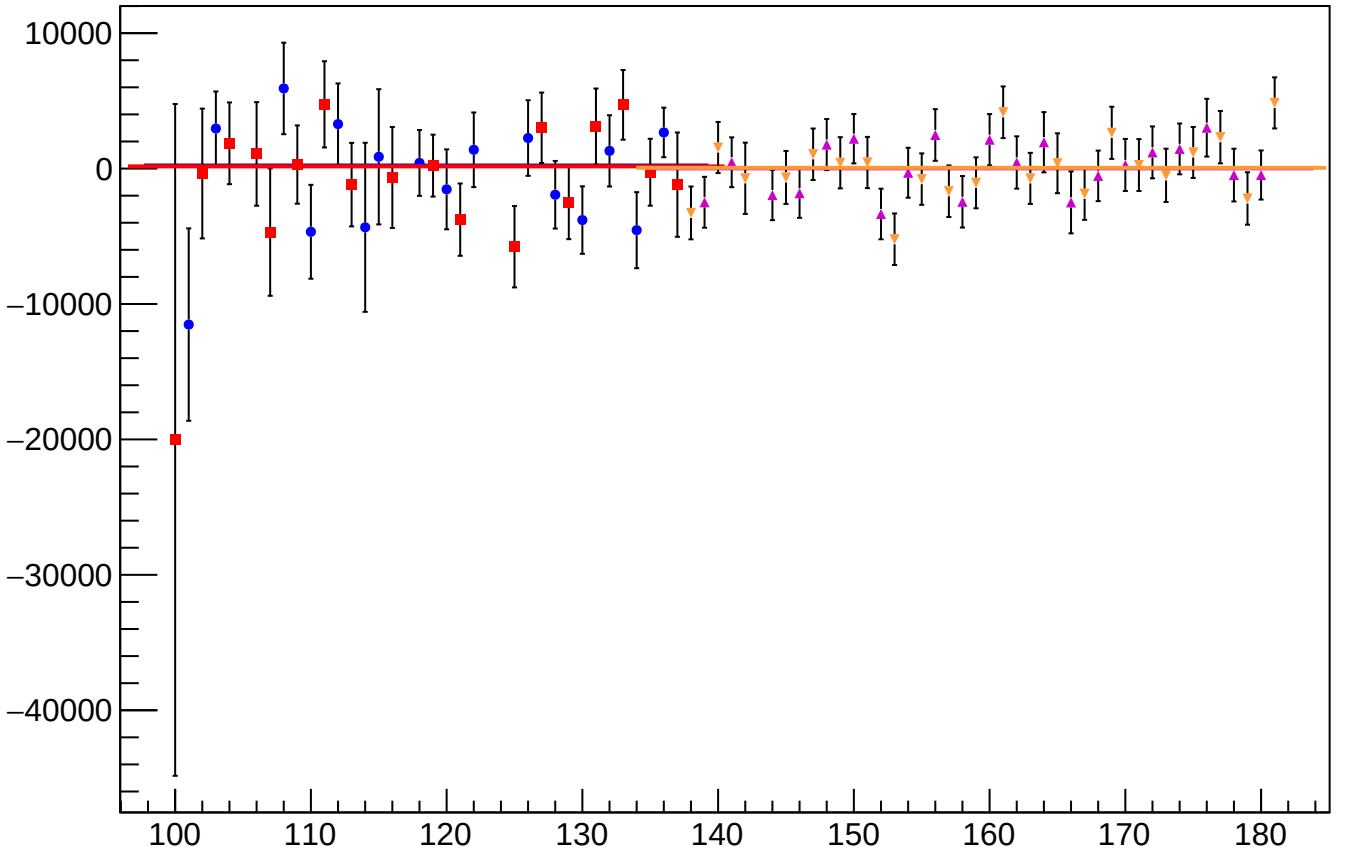
Left: 482.655+/-0.069 $\chi^2$/NDF: 18934513.9/42

Right: 562.892+/-0.114 $\chi^2$/NDF: 2755931.5/33

In: 528.203+/-0.086 $\chi^2$/NDF:9824610.0/36

Out: 482.149+/-0.081 $\chi^2$/NDF:12075392.4/39

All: 503.956+/-0.059 $\chi^2$/NDF: 22052499.5/76




Right In: 226.227+/-718.556 $\chi^2$/NDF: 19.4/15

Left Out: 56.169+/-414.347 $\chi^2$/NDF:30.4/21

Right Out: 163.711+/-725.798 $\chi^2$/NDF: 17.0/17

Left In: 18.583+/-417.793 $\chi^2$/NDF:19.4/20

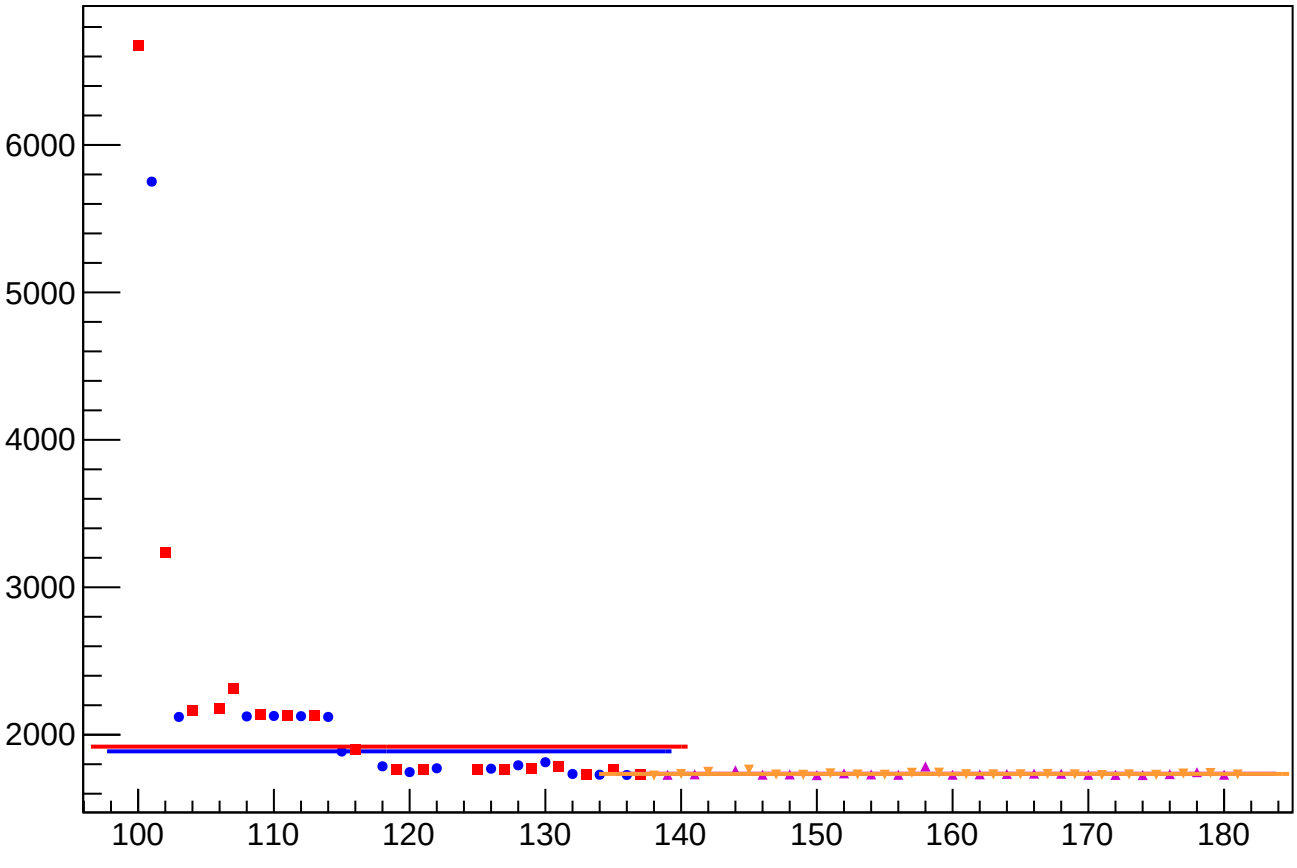
Left: 37.532+/-294.198 $\chi^2$/NDF: 49.8/42

Right: 195.282+/-510.637 $\chi^2$/NDF: 36.4/33

In: 71.045+/-361.179 $\chi^2$/NDF:38.9/36

Out: 82.603+/-359.838 $\chi^2$/NDF:47.5/39

All: 76.845+/-254.917 $\chi^2$/NDF: 86.3/76




Right In: 1887.310+/-0.508 $\chi^2$/NDF: 689442.6/15

Left Out: 1734.155+/-0.293 $\chi^2$/NDF:806.7/21

Right Out: 1919.164+/-0.513 $\chi^2$/NDF: 352567.1/17

Left In: 1735.457+/-0.295 $\chi^2$/NDF:2095.9/20

Left: 1734.801+/-0.208 $\chi^2$/NDF: 2912.4/42

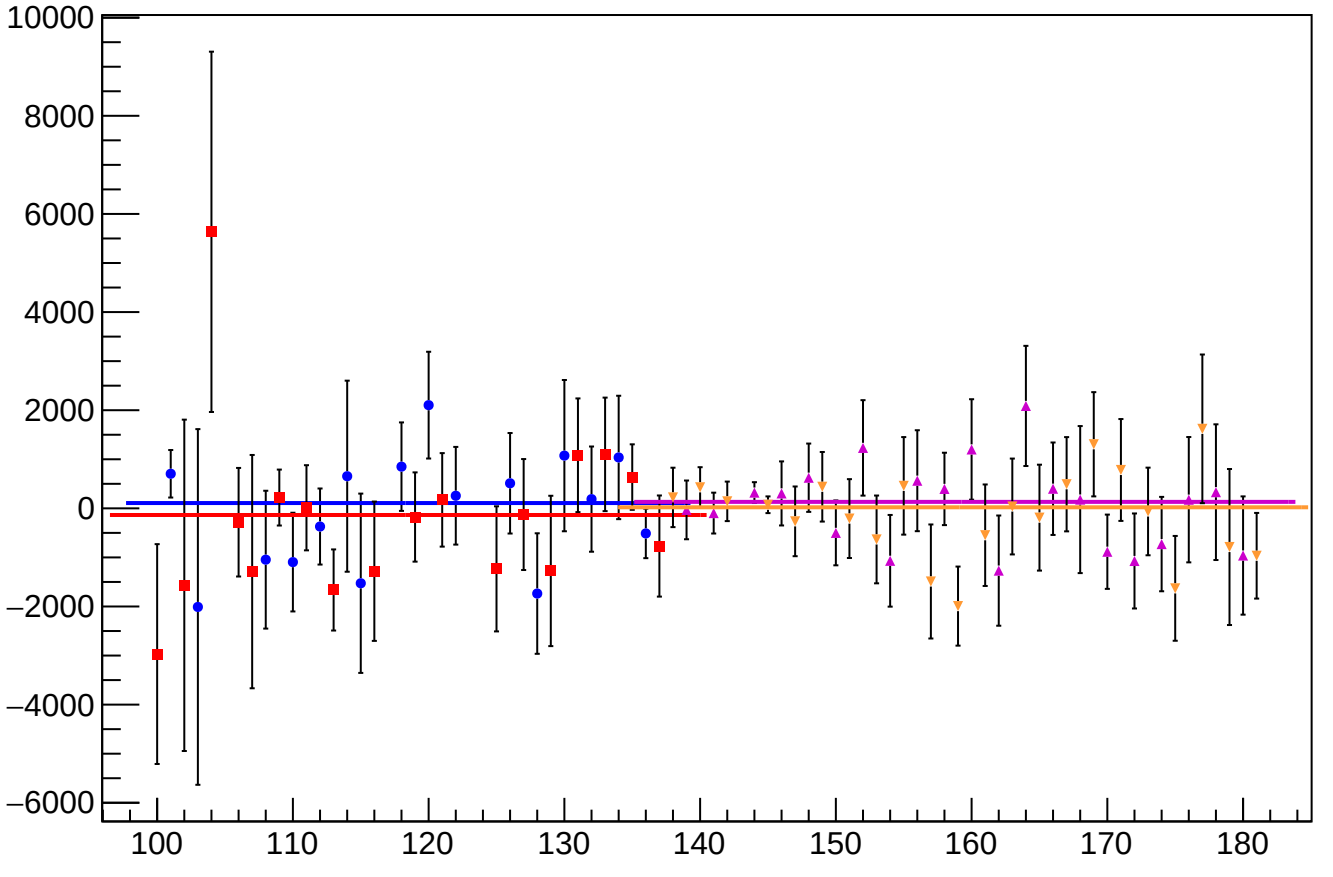
Right: 1903.077+/-0.361 $\chi^2$/NDF: 1043955.3/33

In: 1773.823+/-0.255 $\chi^2$/NDF:758293.2/36

Out: 1779.631+/-0.254 $\chi^2$/NDF:451383.7/39

All: 1776.738+/-0.180 $\chi^2$/NDF: 1209936.5/76

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 108.131+/-231.711 $\chi^2$/NDF: 14.2/15

Left Out: 21.379+/-120.049 $\chi^2$/NDF:18.2/21

Right Out: -135.358+/-245.933 $\chi^2$/NDF: 14.4/17

Left In: 131.994+/-138.489 $\chi^2$/NDF:16.2/20

Left: 68.837+/-90.712 $\chi^2$/NDF: 34.7/42

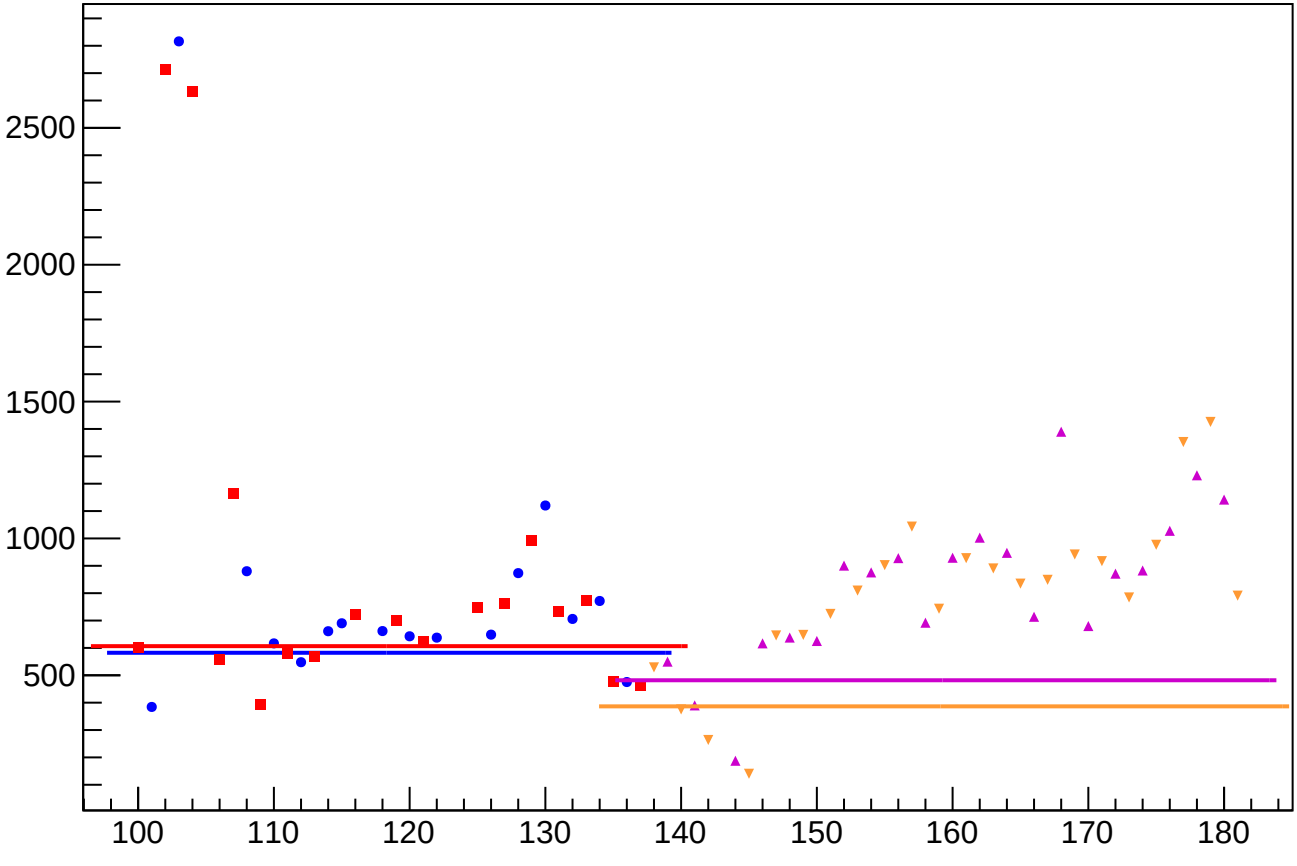
Right: -6.369+/-168.648 $\chi^2$/NDF: 29.0/33

In: 125.714+/-118.875 $\chi^2$/NDF:30.3/36

Out: -8.782+/-107.882 $\chi^2$/NDF:32.9/39

All: 51.962+/-79.888 $\chi^2$/NDF: 63.9/76

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 582.270+/-0.164 $\chi^2$/NDF: 1754301.3/15

Left Out: 386.483+/-0.085 $\chi^2$/NDF:13449627.0/21

Right Out: 606.451+/-0.174 $\chi^2$/NDF: 2198399.5/17

Left In: 481.827+/-0.098 $\chi^2$/NDF:9825647.5/20

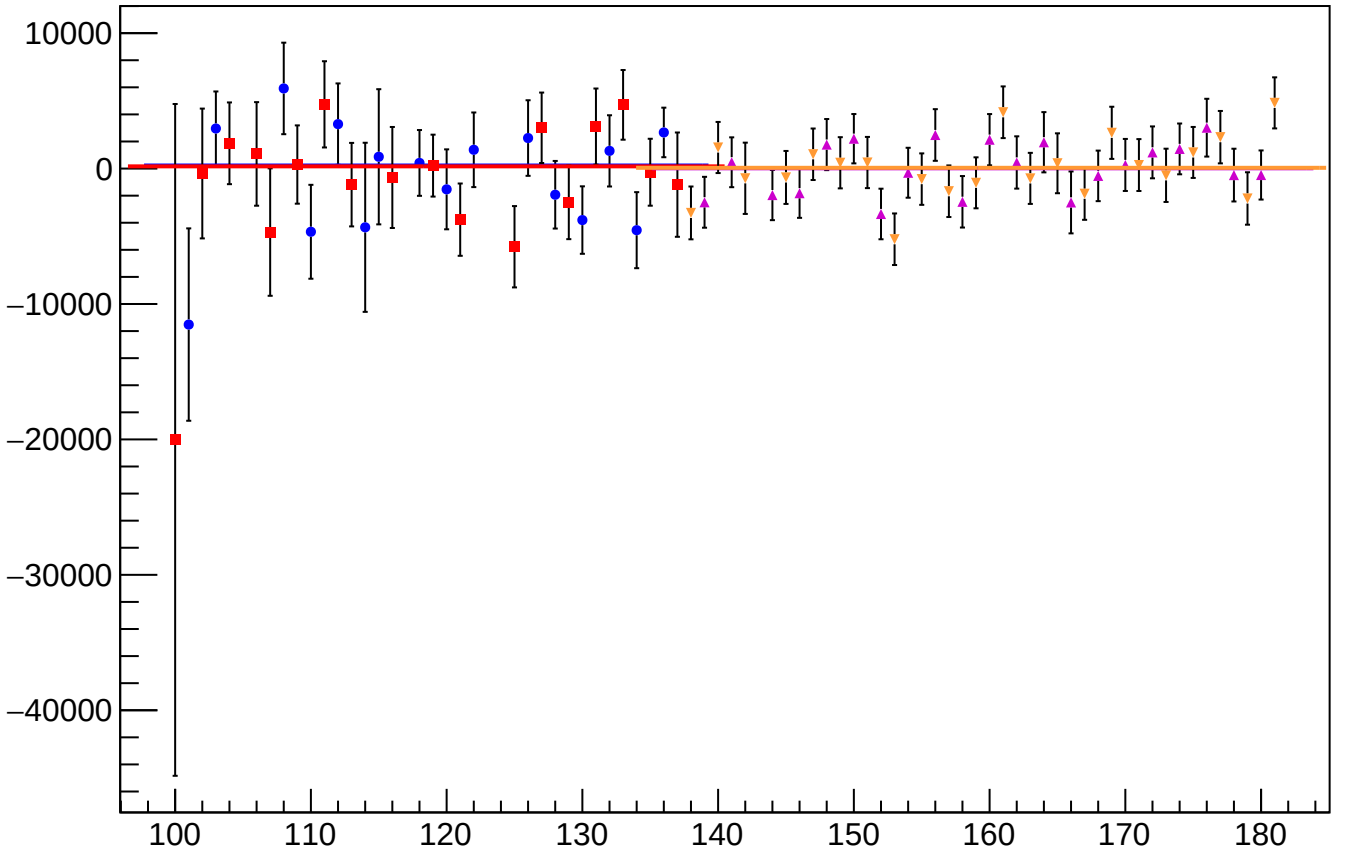
Left: 427.389+/-0.064 $\chi^2$/NDF: 23816513.4/42

Right: 593.641+/-0.119 $\chi^2$/NDF: 3962943.2/33

In: 508.263+/-0.084 $\chi^2$/NDF:11856853.9/36

Out: 428.811+/-0.076 $\chi^2$/NDF:16940120.3/39

All: 464.695+/-0.056 $\chi^2$/NDF: 29286903.4/76




Right In: 226.227+/-718.556 $\chi^2$/NDF: 19.4/15

Left Out: 56.166+/-414.347 $\chi^2$/NDF:30.4/21

Right Out: 163.711+/-725.798 $\chi^2$/NDF: 17.0/17

Left In: 18.583+/-417.793 $\chi^2$/NDF:19.4/20

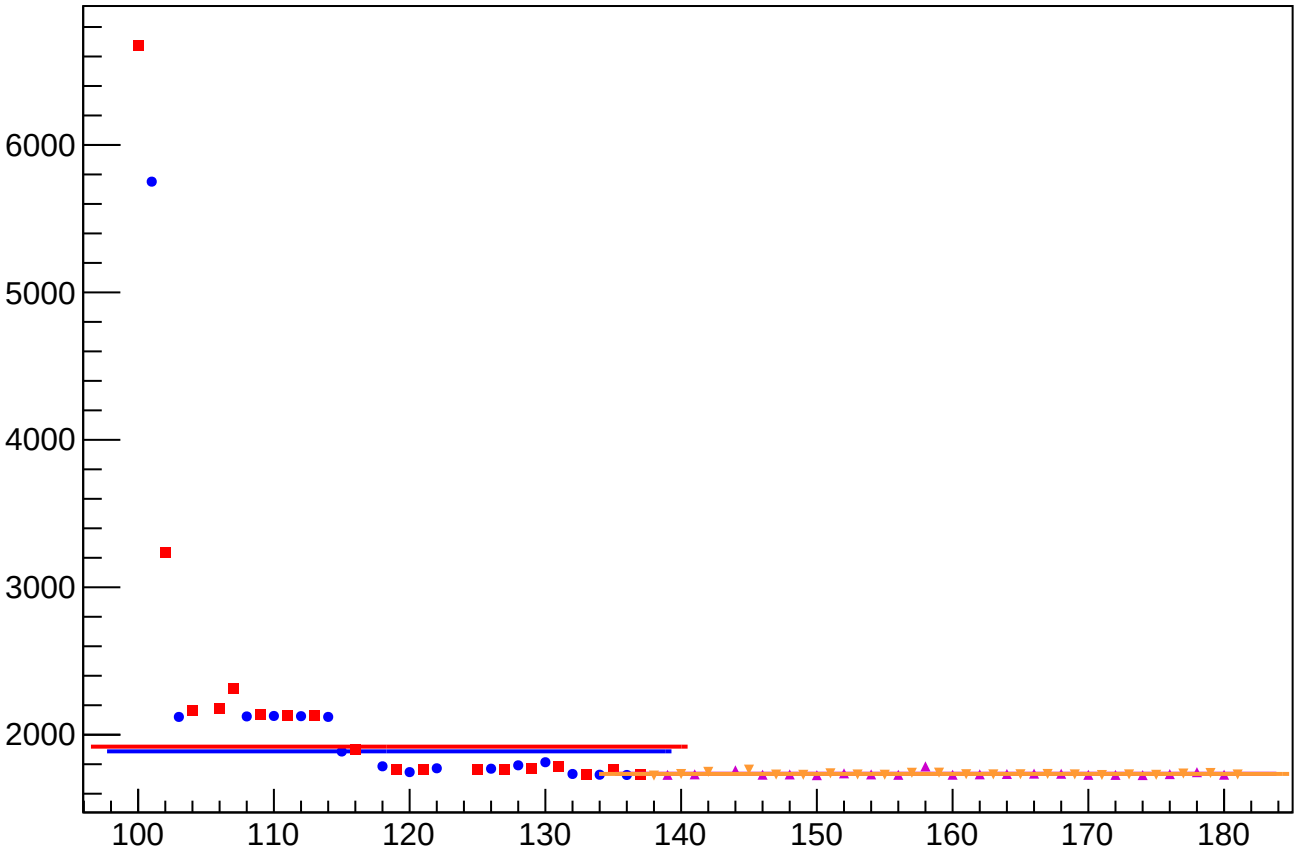
Left: 37.530+/-294.198 $\chi^2$/NDF: 49.8/42

Right: 195.283+/-510.637 $\chi^2$/NDF: 36.4/33

In: 71.045+/-361.179 $\chi^2$/NDF:38.9/36

Out: 82.601+/-359.838 $\chi^2$/NDF:47.5/39

All: 76.844+/-254.917 $\chi^2$/NDF: 86.3/76




Right In: 1887.310+/-0.508 $\chi^2$/NDF: 689442.4/15

Left Out: 1734.155+/-0.293 $\chi^2$/NDF:806.7/21

Right Out: 1919.164+/-0.513 $\chi^2$/NDF: 352566.4/17

Left In: 1735.457+/-0.295 $\chi^2$/NDF:2095.9/20

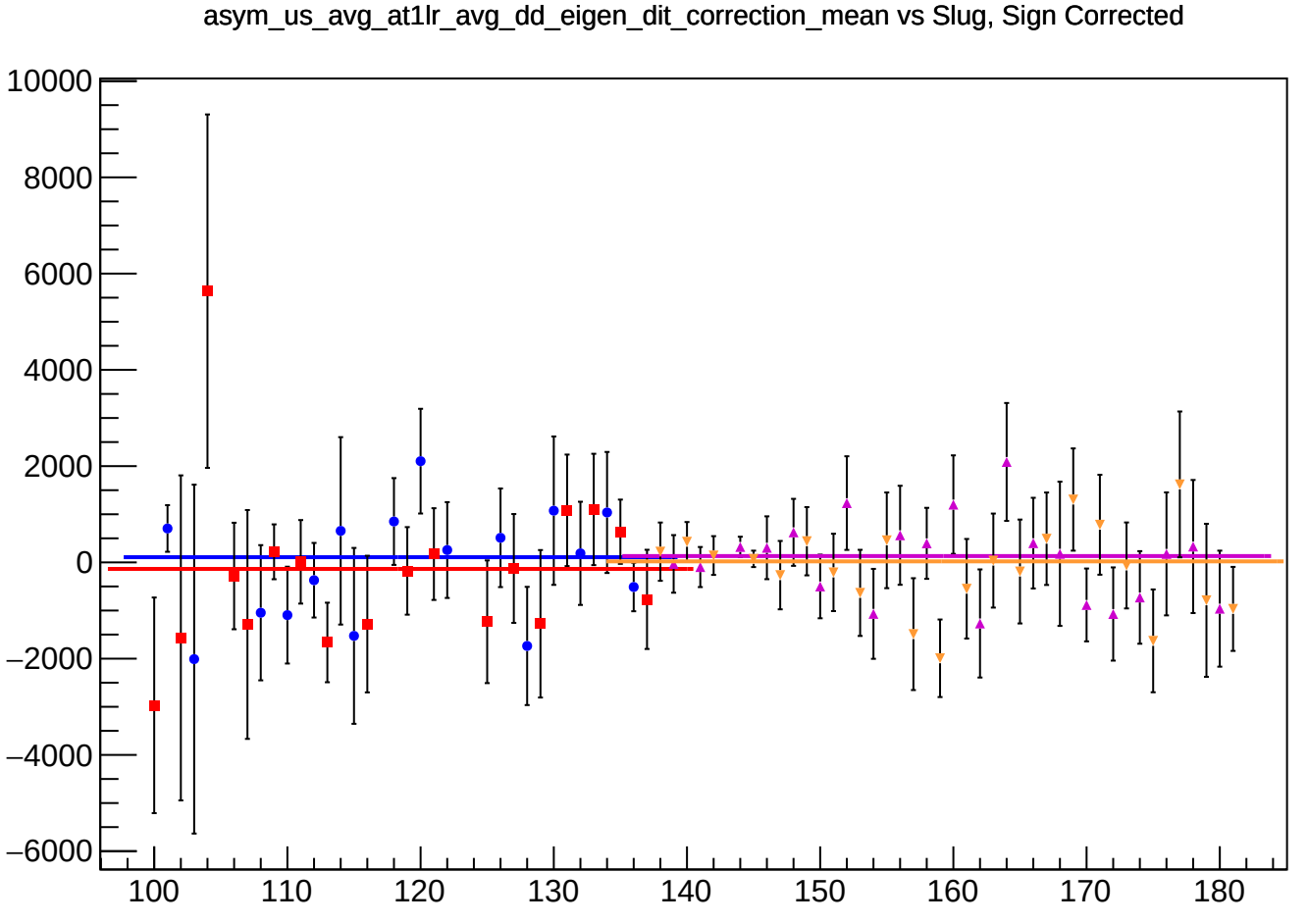
Left: 1734.801+/-0.208 $\chi^2$/NDF: 2912.4/42

Right: 1903.077+/-0.361 $\chi^2$/NDF: 1043954.3/33

In: 1773.823+/-0.255 $\chi^2$/NDF:758292.8/36

Out: 1779.631+/-0.254 $\chi^2$/NDF:451382.9/39

All: 1776.738+/-0.180 $\chi^2$/NDF: 1209935.2/76




Right In: 108.128+/-231.710 $\chi^2$/NDF: 14.2/15

Left Out: 21.377+/-120.049 $\chi^2$/NDF:18.2/21

Right Out: -135.356+/-245.932 $\chi^2$/NDF: 14.4/17

Left In: 131.995+/-138.489 $\chi^2$/NDF:16.2/20

Left: 68.836+/-90.712 $\chi^2$/NDF: 34.7/42

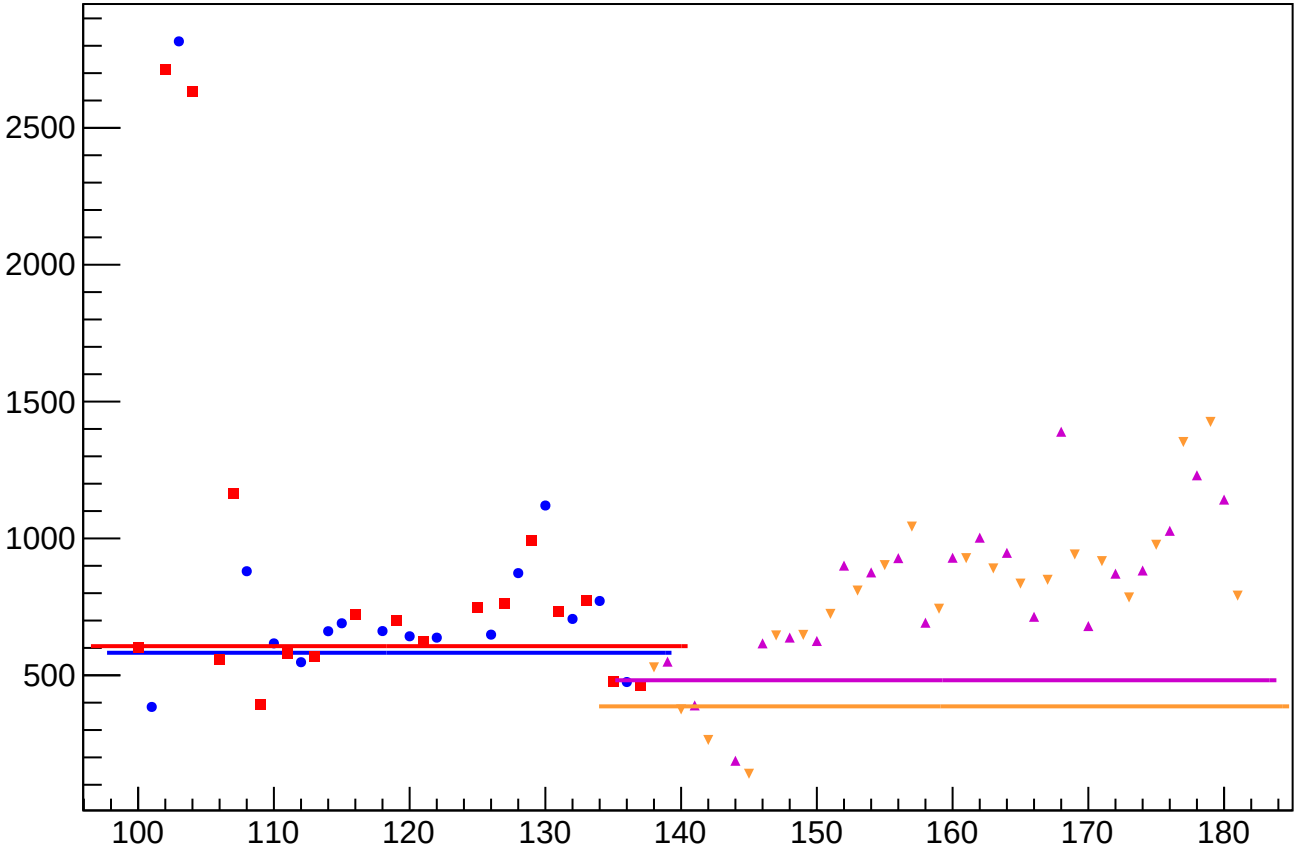
Right: -6.371+/-168.647 $\chi^2$/NDF: 29.0/33

In: 125.713+/-118.875 $\chi^2$/NDF:30.3/36

Out: -8.783+/-107.882 $\chi^2$/NDF:32.9/39

All: 51.960+/-79.888 $\chi^2$/NDF: 63.9/76

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 582.268+/-0.164 $\chi^2$/NDF: 1754289.3/15

Left Out: 386.483+/-0.085 $\chi^2$/NDF:13449669.4/21

Right Out: 606.447+/-0.174 $\chi^2$/NDF: 2198414.3/17

Left In: 481.827+/-0.098 $\chi^2$/NDF:9825671.5/20

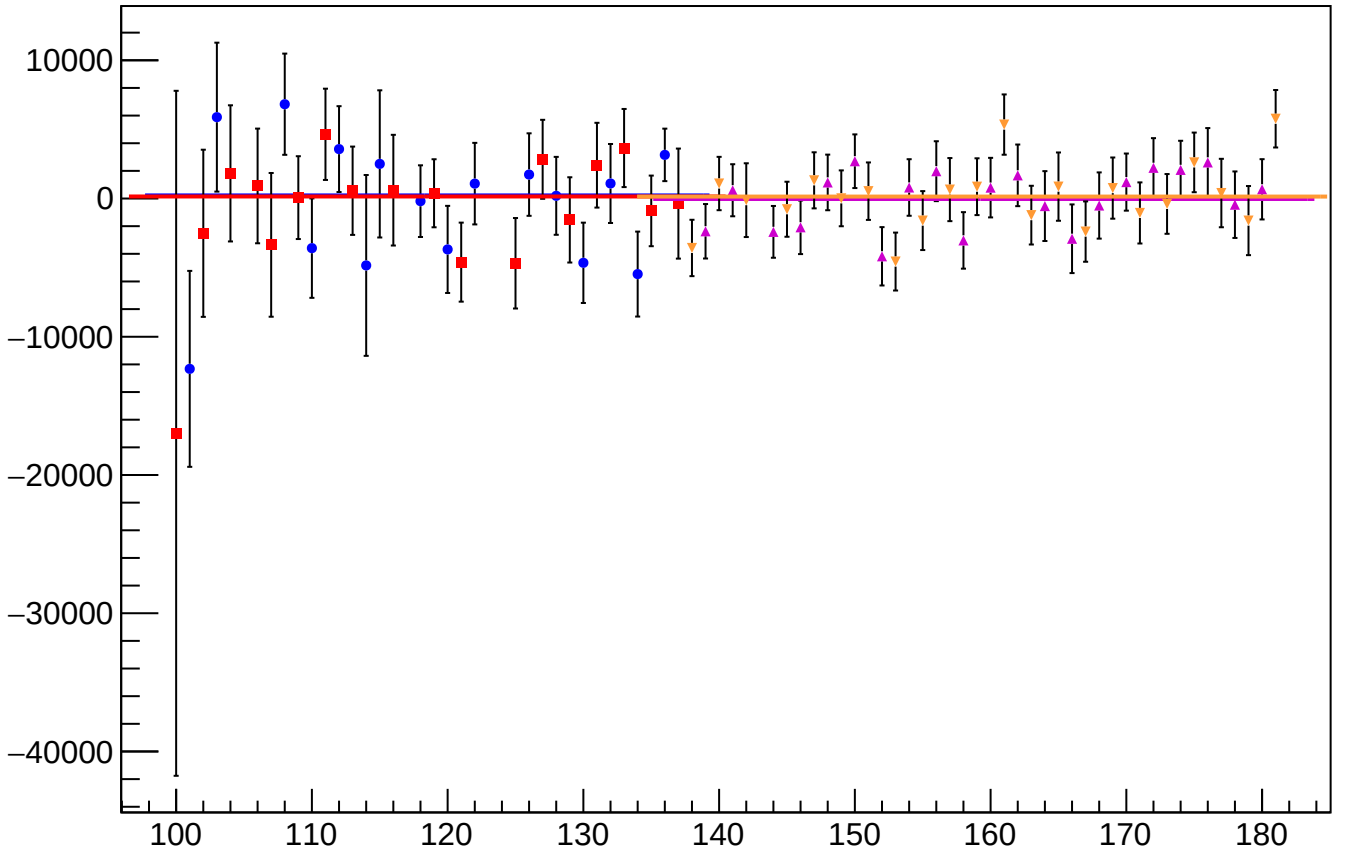
Left: 427.390+/-0.064 $\chi^2$/NDF: 23816585.5/42

Right: 593.638+/-0.119 $\chi^2$/NDF: 3962944.4/33

In: 508.264+/-0.084 $\chi^2$/NDF:11856853.6/36

Out: 428.811+/-0.076 $\chi^2$/NDF:16940144.7/39

All: 464.695+/-0.056 $\chi^2$/NDF: 29286933.5/76




Right In: 224.521+/-791.678 $\chi^2$/NDF: 21.2/15

Left Out: 141.003+/-461.425 $\chi^2$/NDF:27.1/21

Right Out: 147.974+/-794.180 $\chi^2$/NDF: 11.6/17

Left In: -32.875+/-463.687 $\chi^2$/NDF:19.5/20

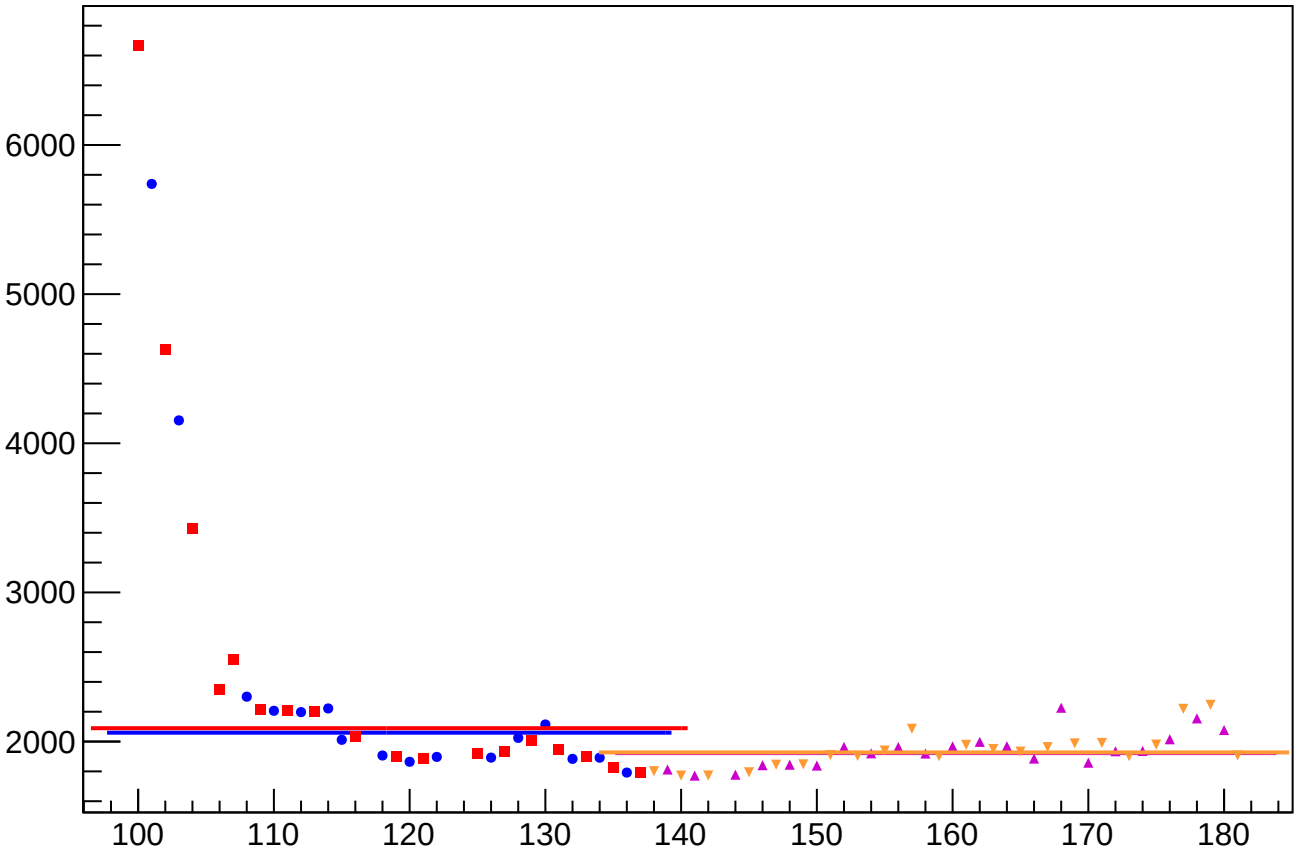
Left: 54.489+/-327.074 $\chi^2$/NDF: 46.7/42

Right: 186.369+/-560.683 $\chi^2$/NDF: 32.7/33

In: 32.871+/-400.110 $\chi^2$/NDF:40.8/36

Out: 142.762+/-398.973 $\chi^2$/NDF:38.7/39

All: 87.973+/-282.518 $\chi^2$/NDF: 79.5/76




Right In: 2059.496+/-0.560 $\chi^2$/NDF: 939873.6/15

Left Out: 1927.169+/-0.326 $\chi^2$/NDF:120254.2/21

Right Out: 2089.476+/-0.562 $\chi^2$/NDF: 681465.8/17

Left In: 1922.590+/-0.328 $\chi^2$/NDF:112890.5/20

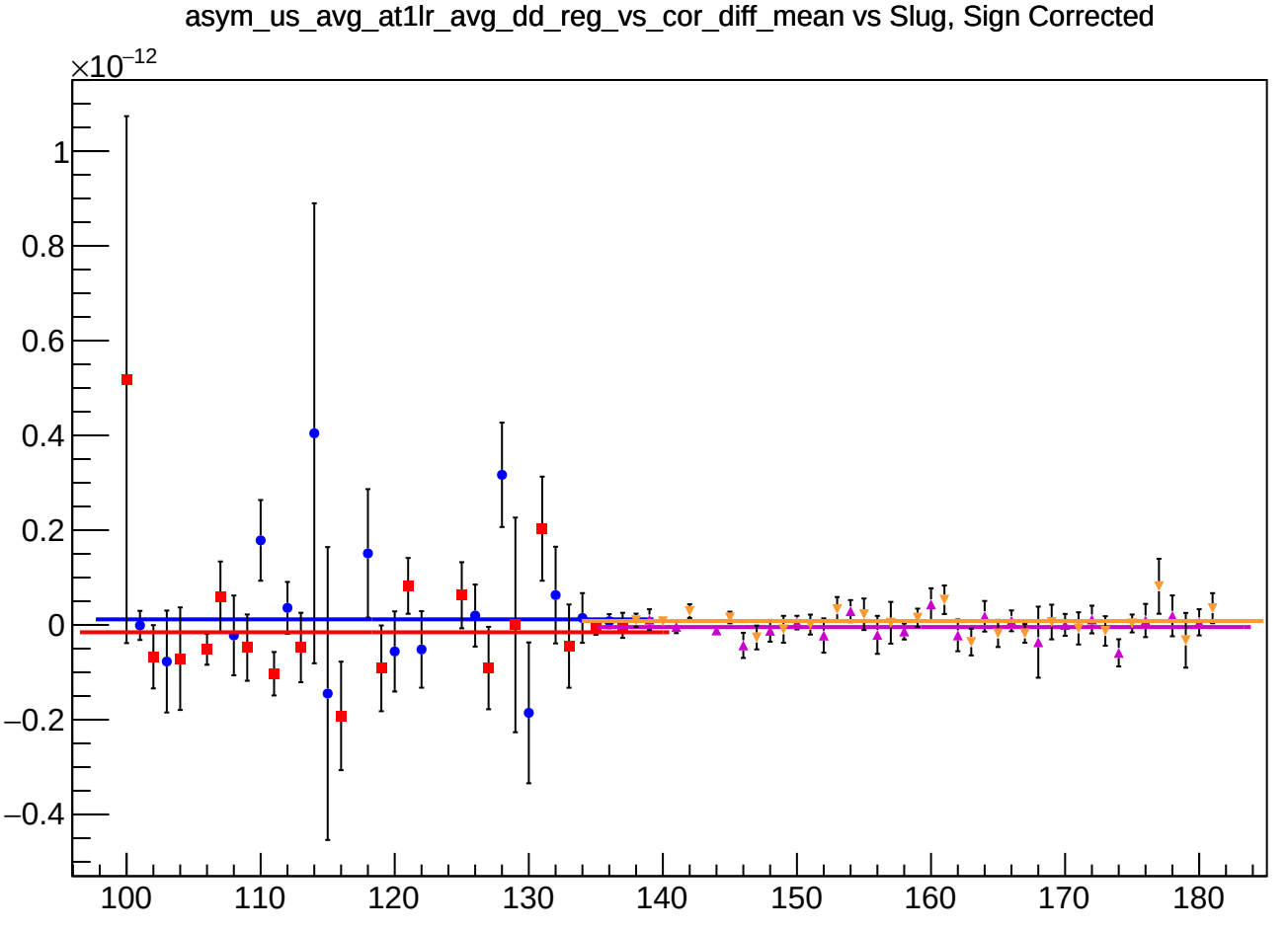
Left: 1924.891+/-0.231 $\chi^2$/NDF: 233242.7/42

Right: 2074.439+/-0.396 $\chi^2$/NDF: 1622768.9/33

In: 1957.560+/-0.283 $\chi^2$/NDF:1097297.4/36

Out: 1968.132+/-0.282 $\chi^2$/NDF:864172.9/39

All: 1962.861+/-0.200 $\chi^2$/NDF: 1962170.6/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17.0/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.7/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.4/20

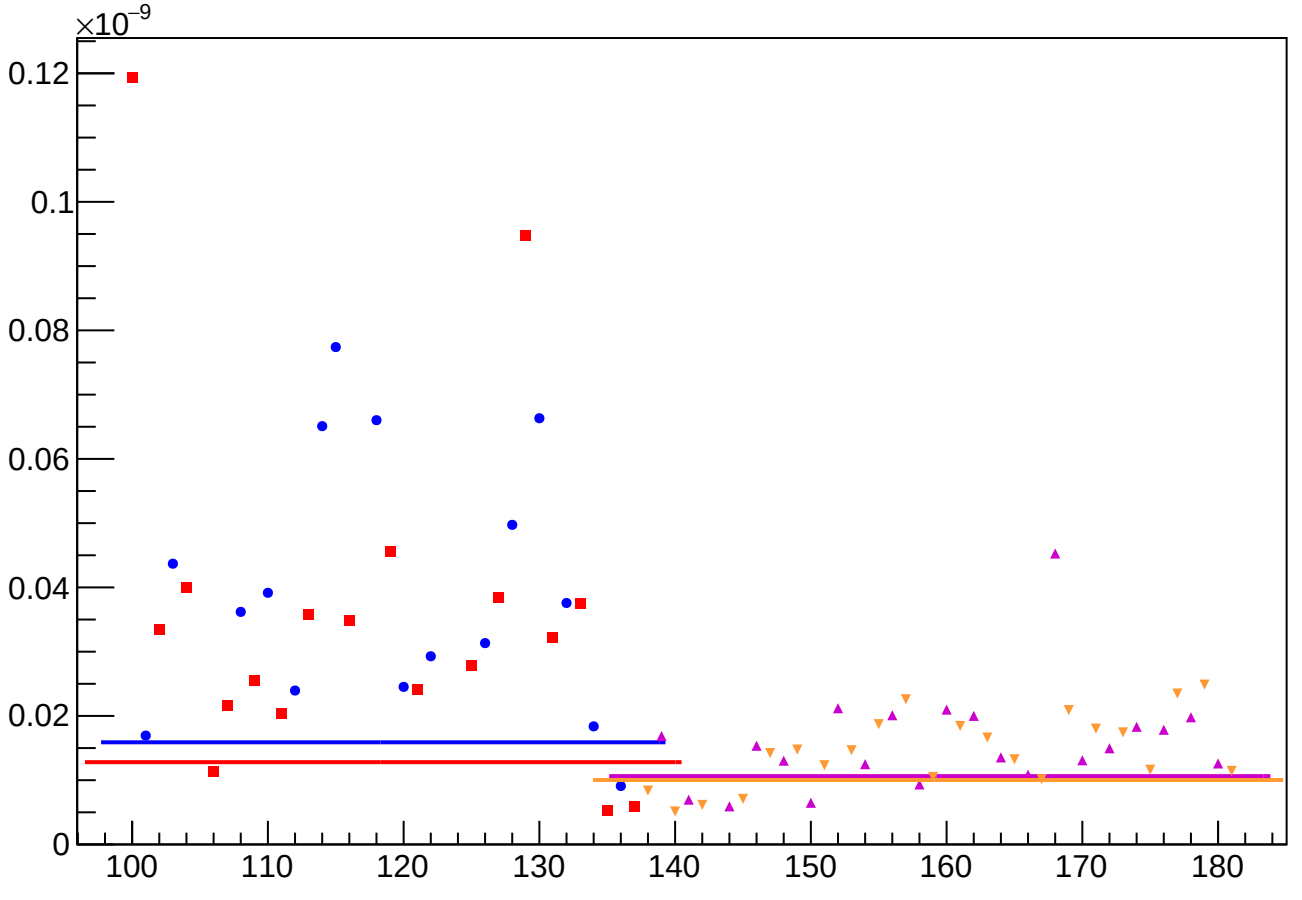
Left: 0.000+/-0.000 $\chi^2$/NDF: 35.4/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:34.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:42.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 77.5/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1935582.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2254459.8/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2486058.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2573300.6/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4845372.6/42

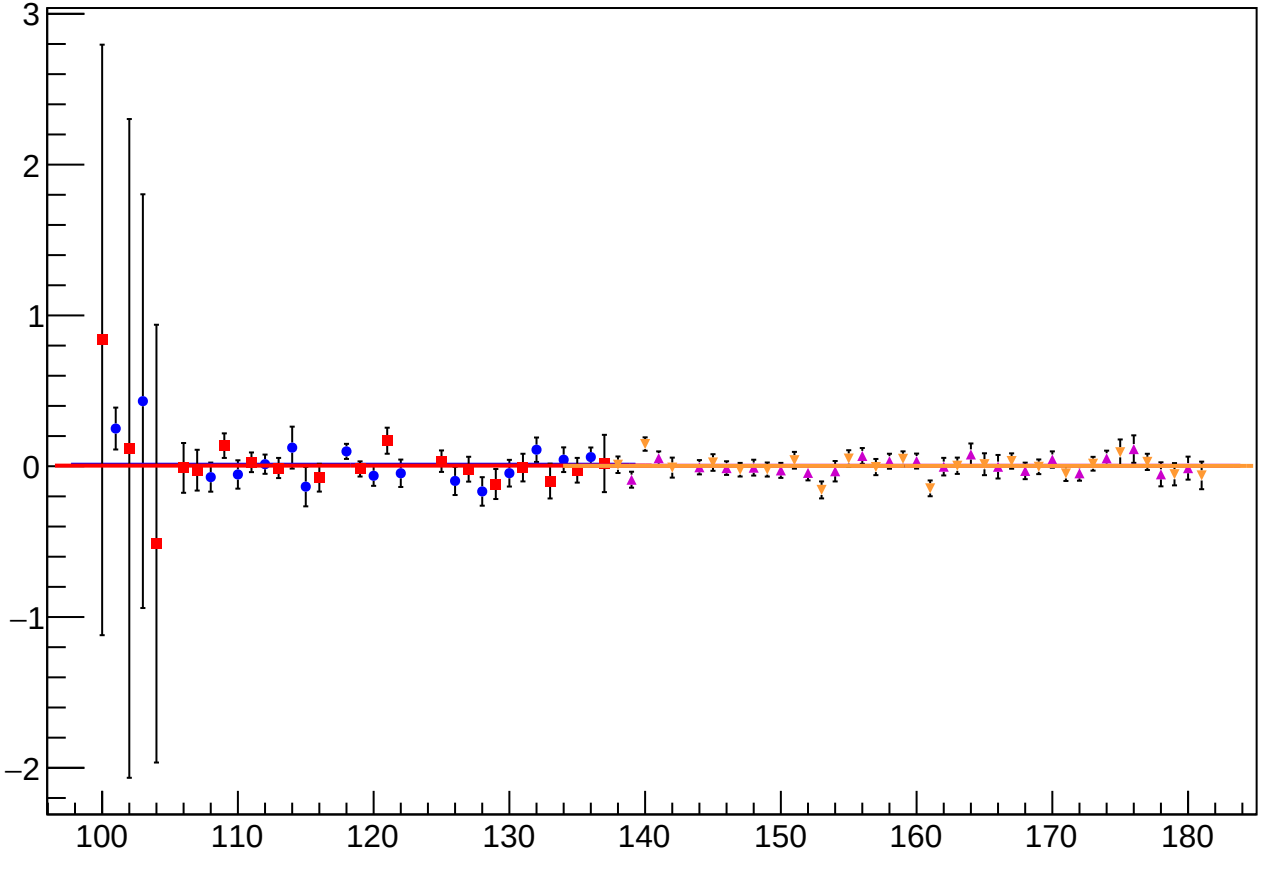
Right: 0.000+/-0.000 $\chi^2$/NDF: 4498662.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:4864782.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4855810.2/39

All: 0.000+/-0.000 $\chi^2$/NDF: 9769174.9/76

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.021 $\chi^2$/NDF: 18.4/15

Left Out: 0.002+/-0.012 $\chi^2$/NDF:33.5/21

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: 0.003+/-0.012 $\chi^2$/NDF:14.4/20

Left: 0.003+/-0.008 $\chi^2$/NDF: 48.0/42

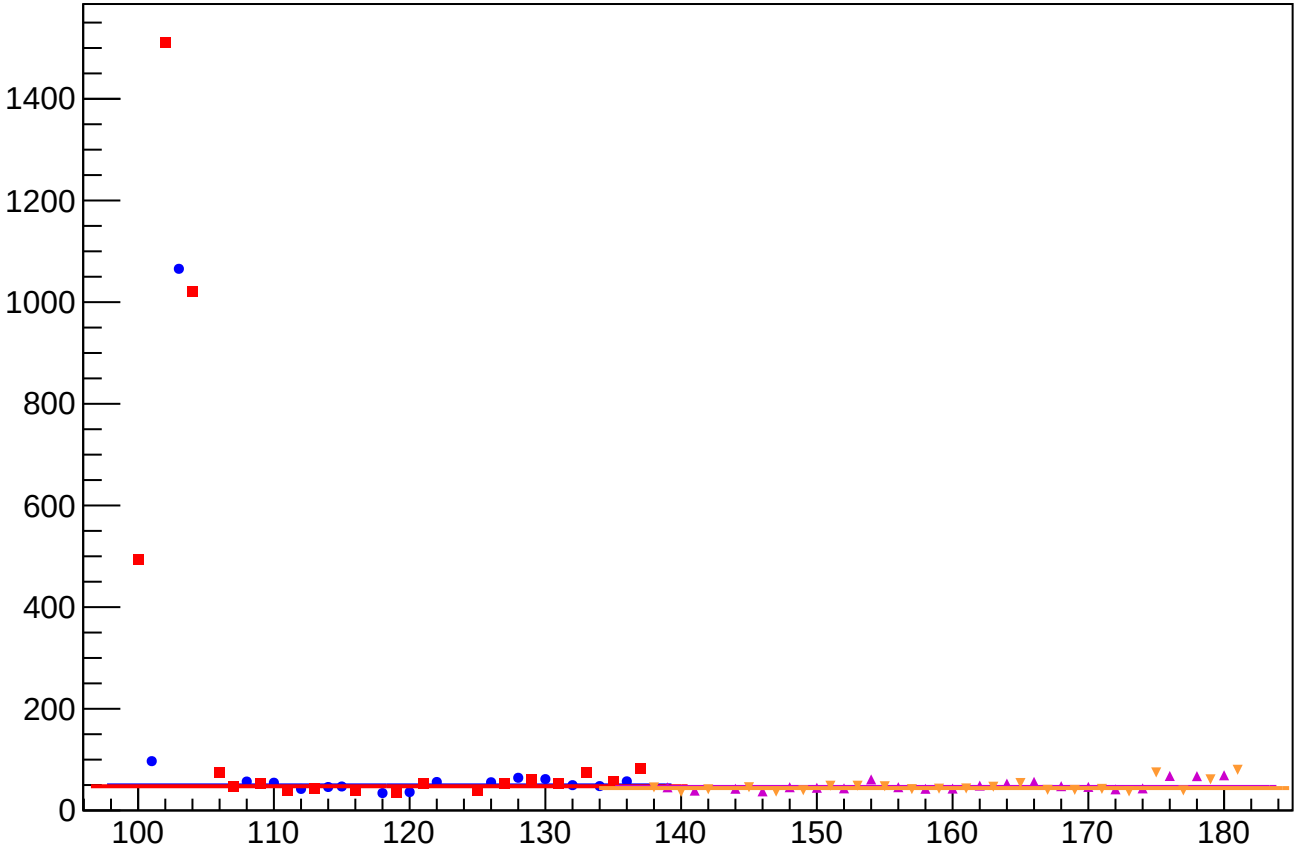
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: 0.005+/-0.010 $\chi^2$/NDF:33.0/36

Out: 0.003+/-0.010 $\chi^2$/NDF:44.0/39

All: 0.004+/-0.007 $\chi^2$/NDF: 77.0/76

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 49.333+/-0.015 $\chi^2$/NDF: 1776998.3/15

Left Out: 44.012+/-0.008 $\chi^2$/NDF:970428.3/21

Right Out: 47.599+/-0.015 $\chi^2$/NDF: 2418219.3/17

Left In: 46.260+/-0.009 $\chi^2$/NDF:773181.7/20

Left: 45.096+/-0.006 $\chi^2$/NDF: 1779820.1/42

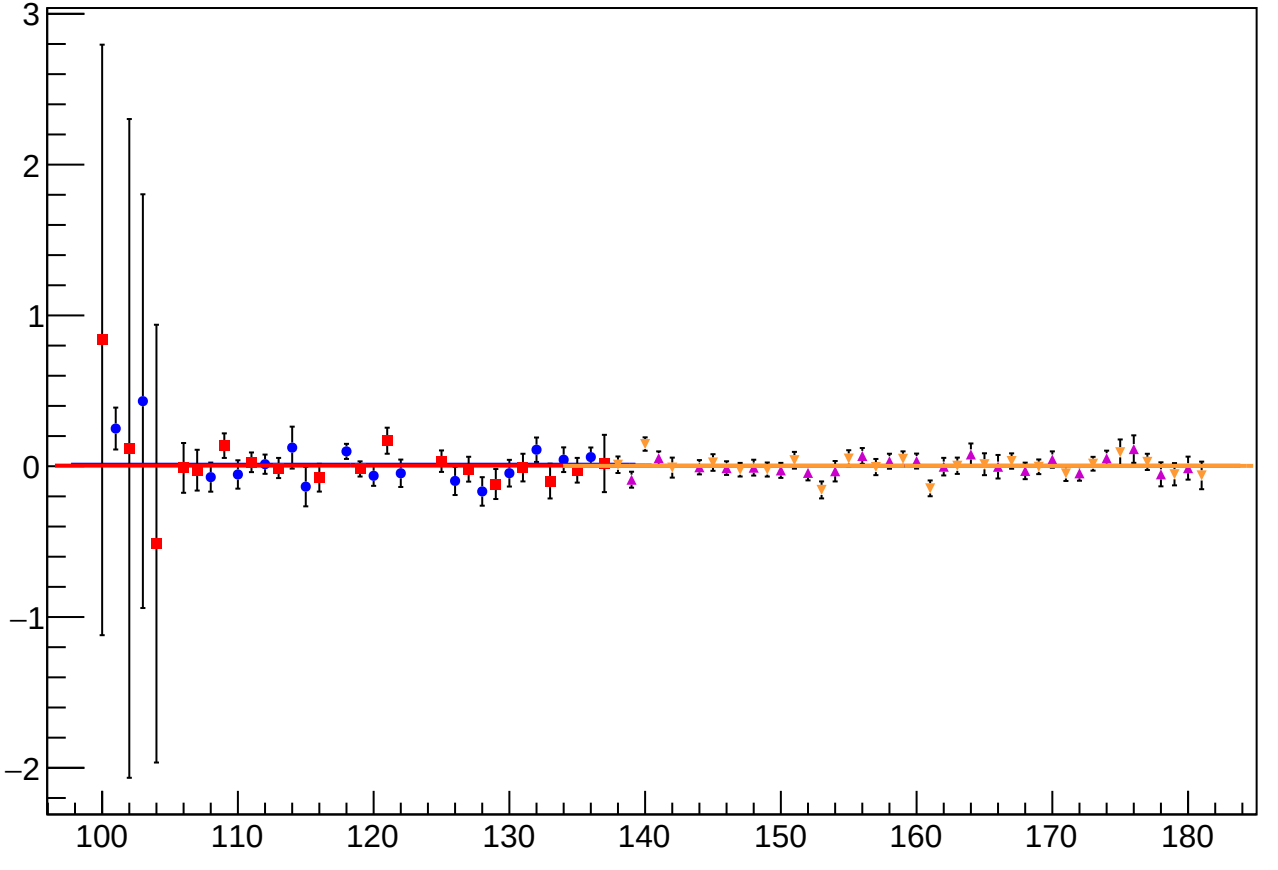
Right: 48.487+/-0.011 $\chi^2$/NDF: 4201890.6/33

In: 47.021+/-0.007 $\chi^2$/NDF:2582525.7/36

Out: 44.822+/-0.007 $\chi^2$/NDF:3431790.9/39

All: 45.898+/-0.005 $\chi^2$/NDF: 6059750.8/76

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.021 $\chi^2$/NDF: 18.4/15

Left Out: 0.002+/-0.012 $\chi^2$/NDF:33.5/21

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: 0.003+/-0.012 $\chi^2$/NDF:14.4/20

Left: 0.003+/-0.008 $\chi^2$/NDF: 48.0/42

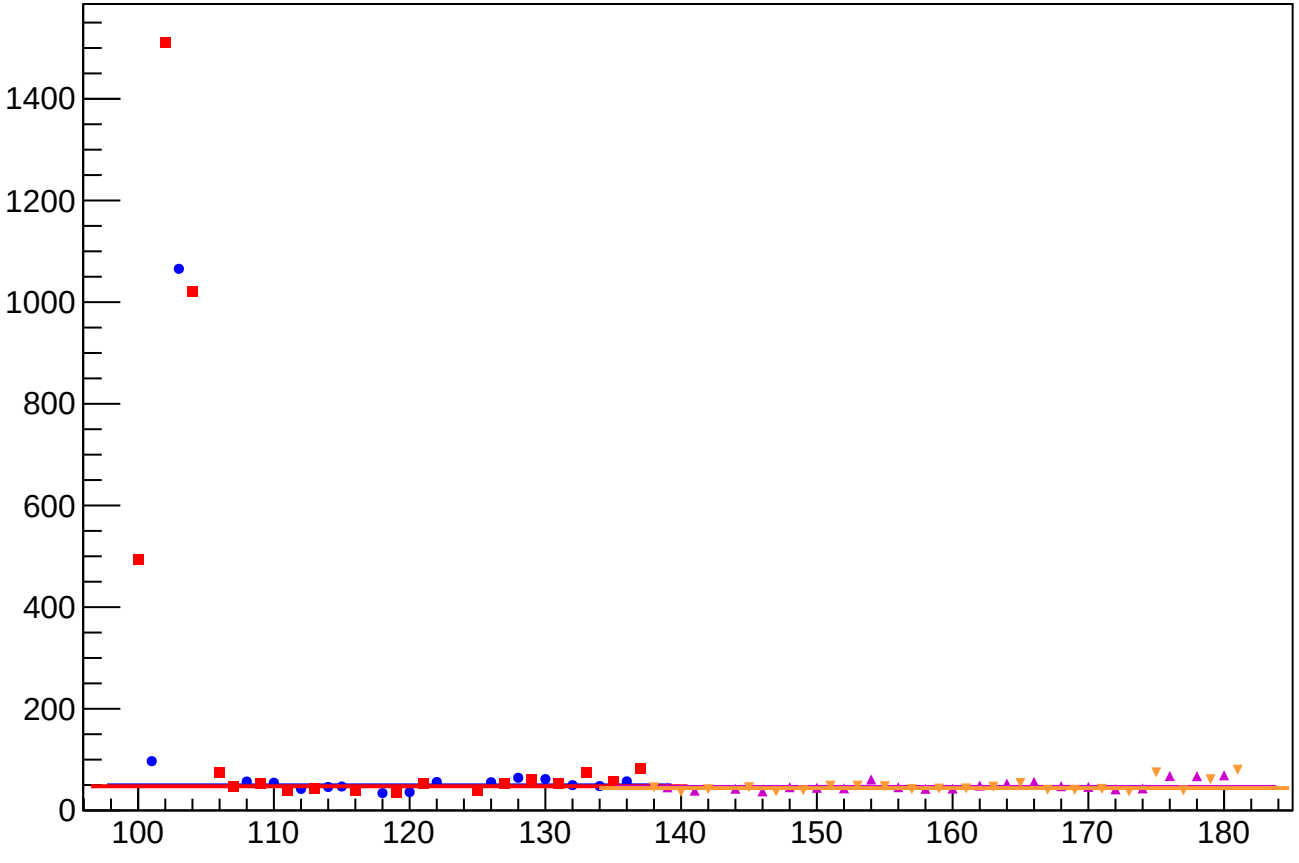
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: 0.005+/-0.010 $\chi^2$/NDF:33.0/36

Out: 0.003+/-0.010 $\chi^2$/NDF:44.0/39

All: 0.004+/-0.007 $\chi^2$/NDF: 77.0/76

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 49.333+/-0.015 $\chi^2$/NDF: 1776998.3/15

Left Out: 44.012+/-0.008 $\chi^2$/NDF:970428.3/21

Right Out: 47.599+/-0.015 $\chi^2$/NDF: 2418219.3/17

Left In: 46.260+/-0.009 $\chi^2$/NDF:773181.7/20

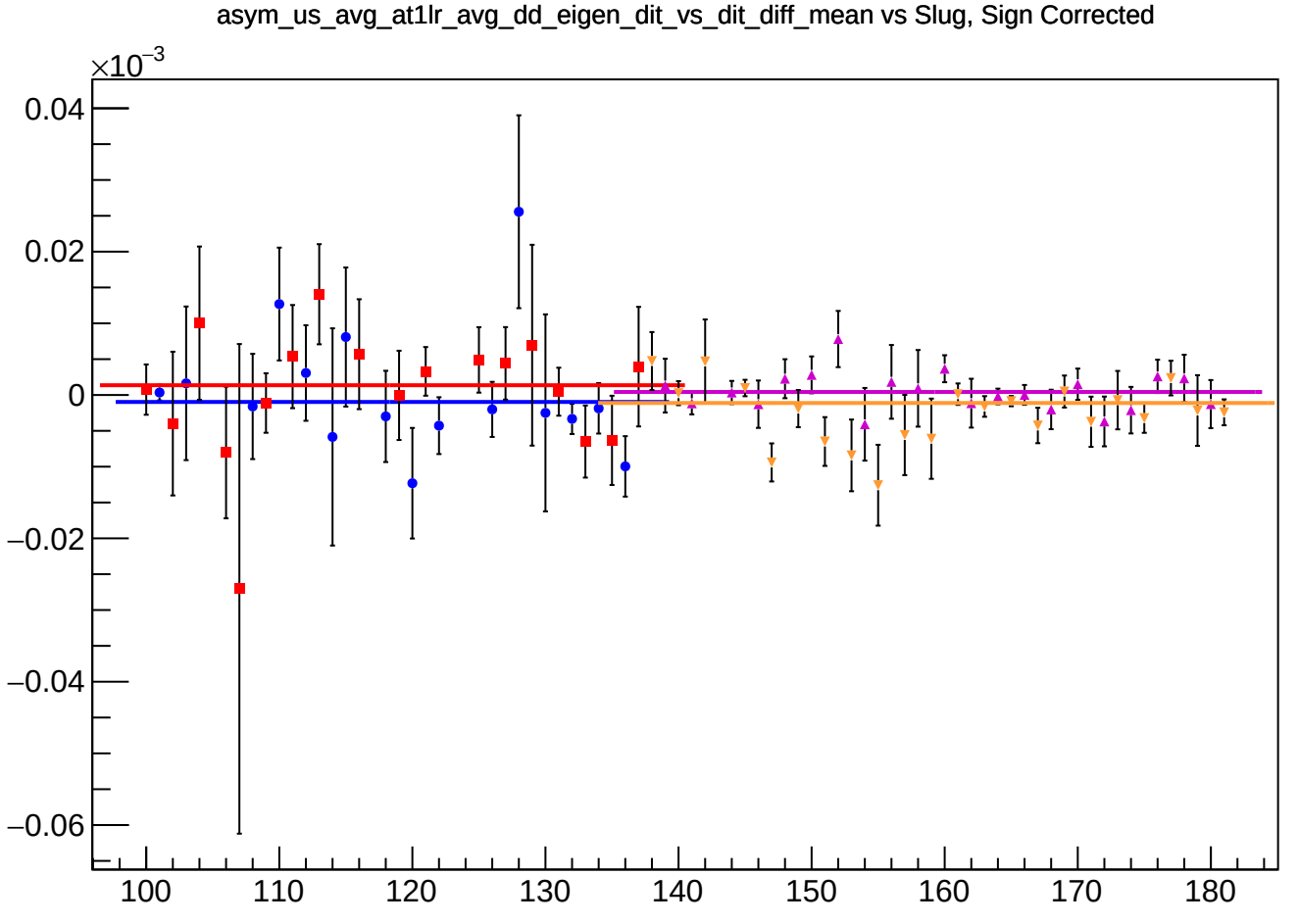
Left: 45.096+/-0.006 $\chi^2$/NDF: 1779820.1/42

Right: 48.487+/-0.011 $\chi^2$/NDF: 4201890.6/33

In: 47.021+/-0.007 $\chi^2$/NDF:2582525.7/36

Out: 44.822+/-0.007 $\chi^2$/NDF:3431790.9/39

All: 45.898+/-0.005 $\chi^2$/NDF: 6059750.8/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:34.4/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.2/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 55.3/42

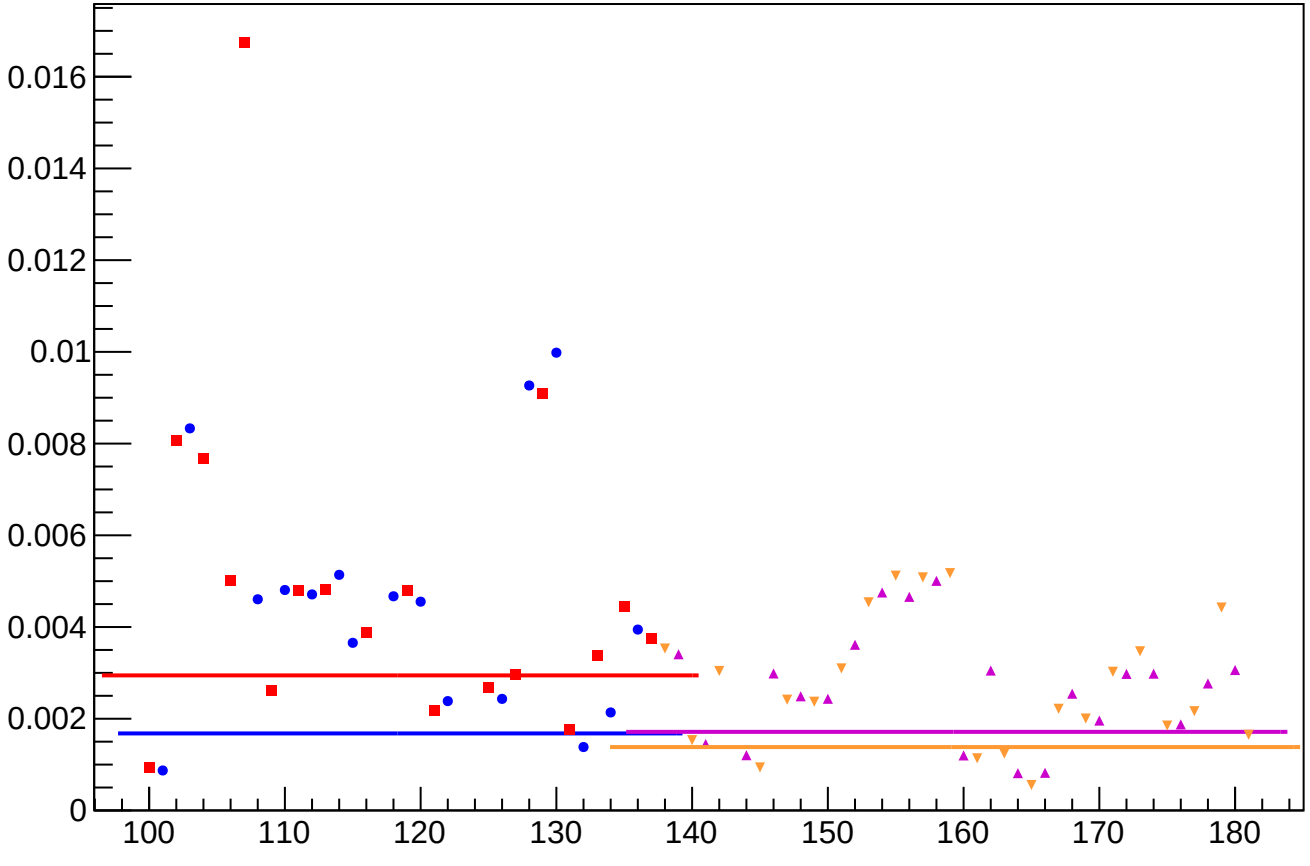
Right: -0.000+/-0.000 $\chi^2$/NDF: 33.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:35.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:50.4/39

All: -0.000+/-0.000 $\chi^2$/NDF: 88.9/76

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5960235.0/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:10822734.3/21

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3379848.5/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:7845835.4/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 19194689.7/42

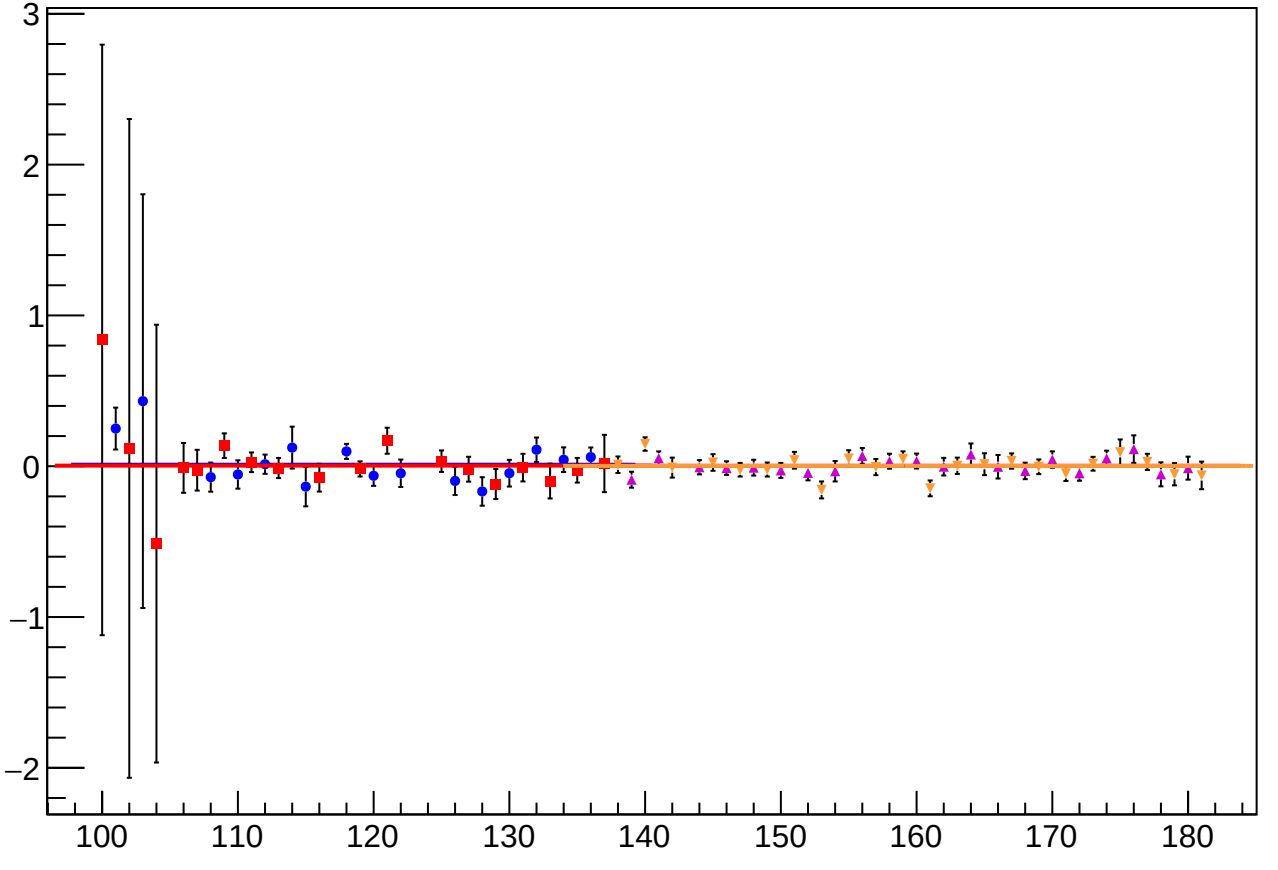
Right: 0.002+/-0.000 $\chi^2$/NDF: 10702272.5/33

In: 0.002+/-0.000 $\chi^2$/NDF:13808560.8/36

Out: 0.002+/-0.000 $\chi^2$/NDF:16867347.0/39

All: 0.002+/-0.000 $\chi^2$/NDF: 30862434.7/76

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.021 $\chi^2$/NDF: 18.4/15

Left Out: 0.002+/-0.012 $\chi^2$/NDF:33.5/21

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: 0.003+/-0.012 $\chi^2$/NDF:14.4/20

Left: 0.003+/-0.008 $\chi^2$/NDF: 48.0/42

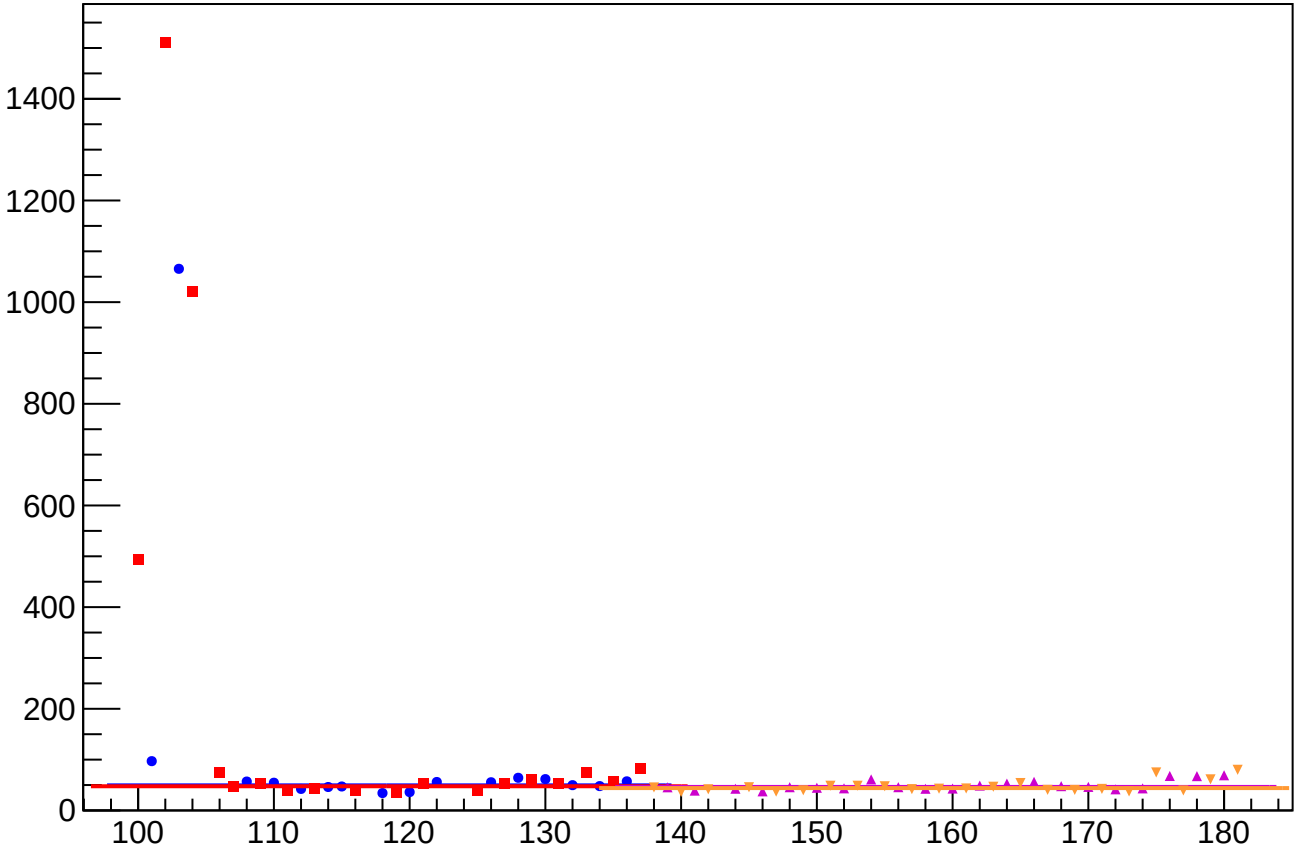
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: 0.005+/-0.010 $\chi^2$/NDF:33.0/36

Out: 0.003+/-0.010 $\chi^2$/NDF:44.0/39

All: 0.004+/-0.007 $\chi^2$/NDF: 77.0/76

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 49.333+/-0.015 $\chi^2$/NDF: 1776926.6/15

Left Out: 44.013+/-0.008 $\chi^2$/NDF:970448.1/21

Right Out: 47.598+/-0.015 $\chi^2$/NDF: 2418253.9/17

Left In: 46.260+/-0.009 $\chi^2$/NDF:773248.6/20

Left: 45.096+/-0.006 $\chi^2$/NDF: 1779893.6/42

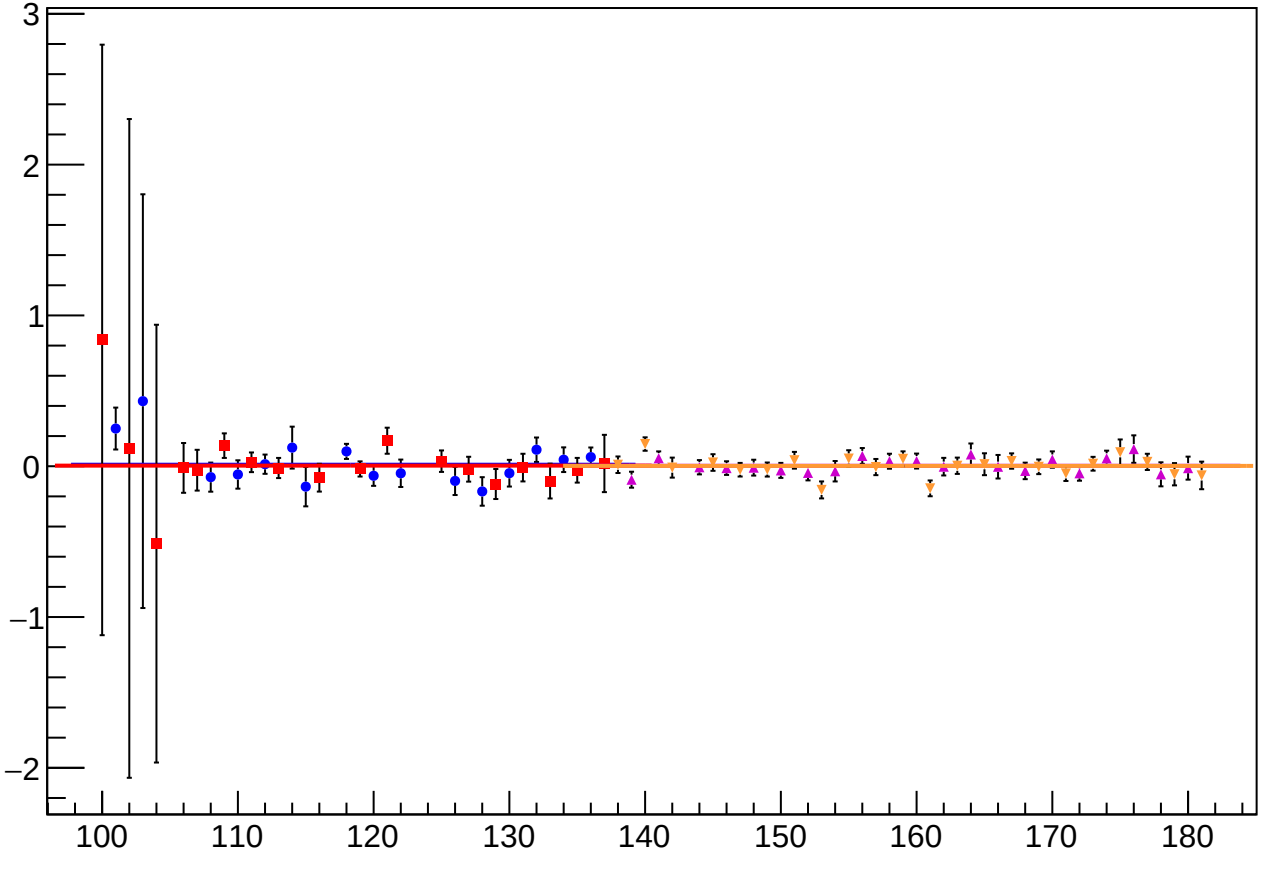
Right: 48.487+/-0.011 $\chi^2$/NDF: 4201863.1/33

In: 47.021+/-0.007 $\chi^2$/NDF:2582534.3/36

Out: 44.822+/-0.007 $\chi^2$/NDF:3431821.8/39

All: 45.898+/-0.005 $\chi^2$/NDF: 6059788.3/76

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.021 $\chi^2$/NDF: 18.4/15

Left Out: 0.002+/-0.012 $\chi^2$/NDF:33.5/21

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: 0.003+/-0.012 $\chi^2$/NDF:14.4/20

Left: 0.003+/-0.008 $\chi^2$/NDF: 48.0/42

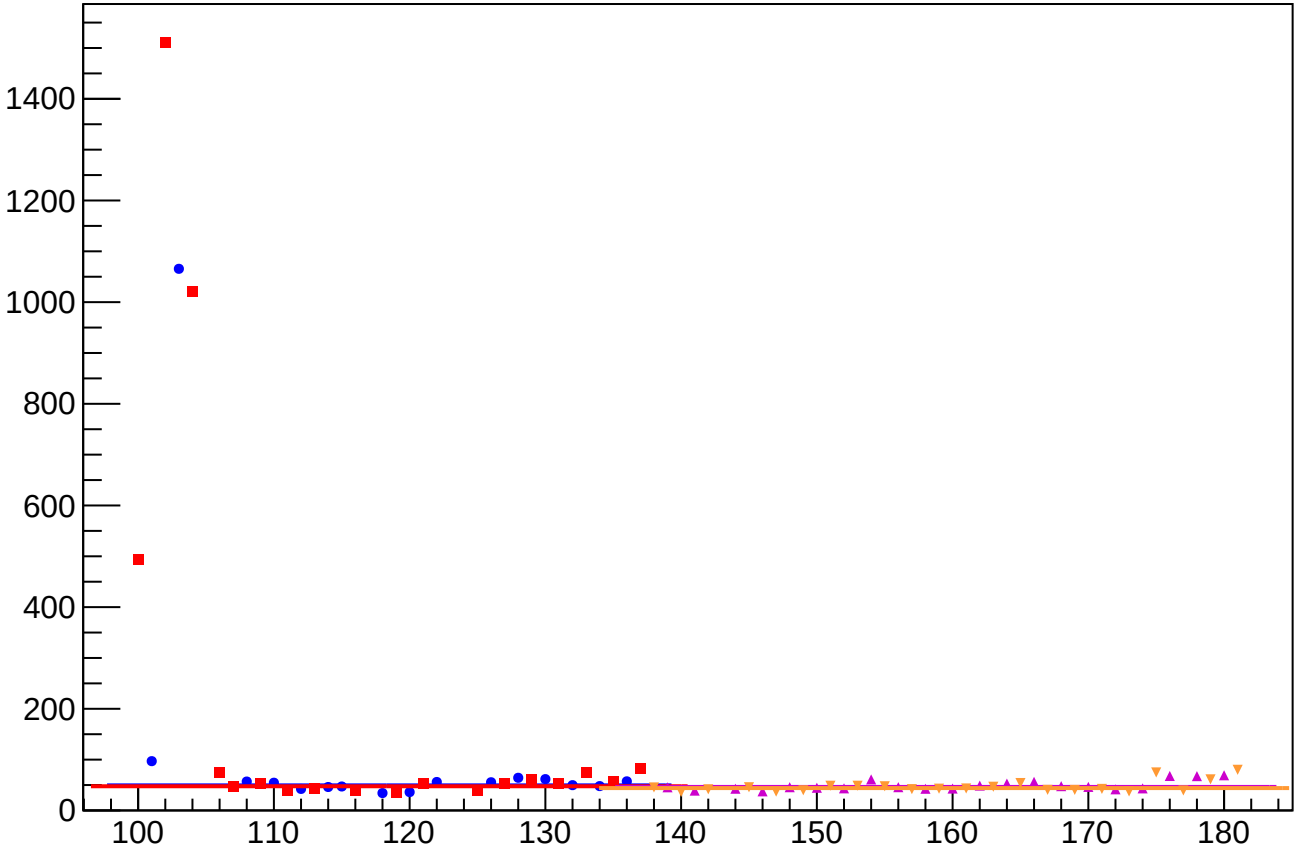
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: 0.005+/-0.010 $\chi^2$/NDF:33.0/36

Out: 0.003+/-0.010 $\chi^2$/NDF:44.0/39

All: 0.004+/-0.007 $\chi^2$/NDF: 77.0/76

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 49.333+/-0.015 $\chi^2$/NDF: 1776926.6/15

Left Out: 44.013+/-0.008 $\chi^2$/NDF:970448.1/21

Right Out: 47.598+/-0.015 $\chi^2$/NDF: 2418253.9/17

Left In: 46.260+/-0.009 $\chi^2$/NDF:773248.6/20

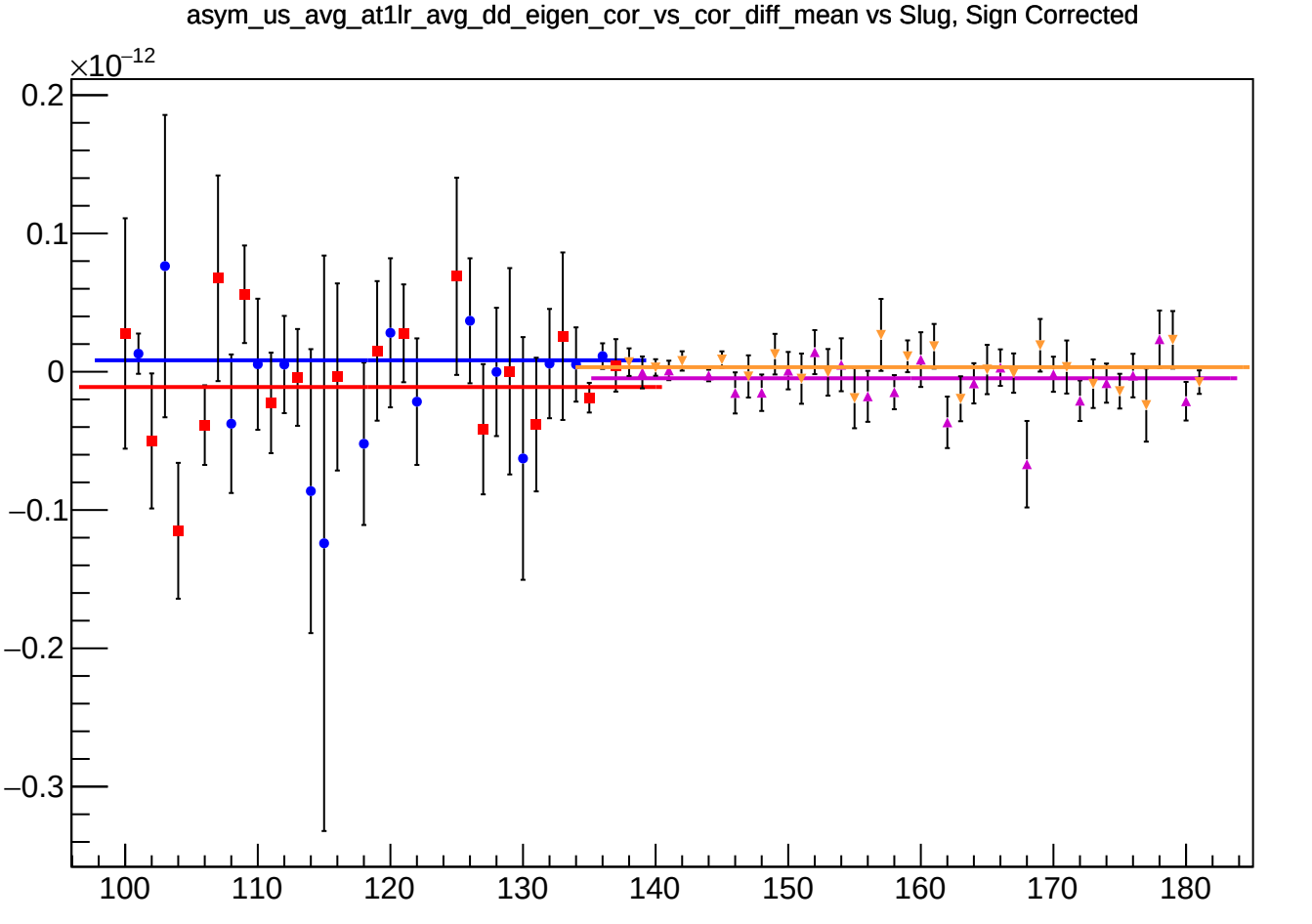
Left: 45.096+/-0.006 $\chi^2$/NDF: 1779893.6/42

Right: 48.487+/-0.011 $\chi^2$/NDF: 4201863.1/33

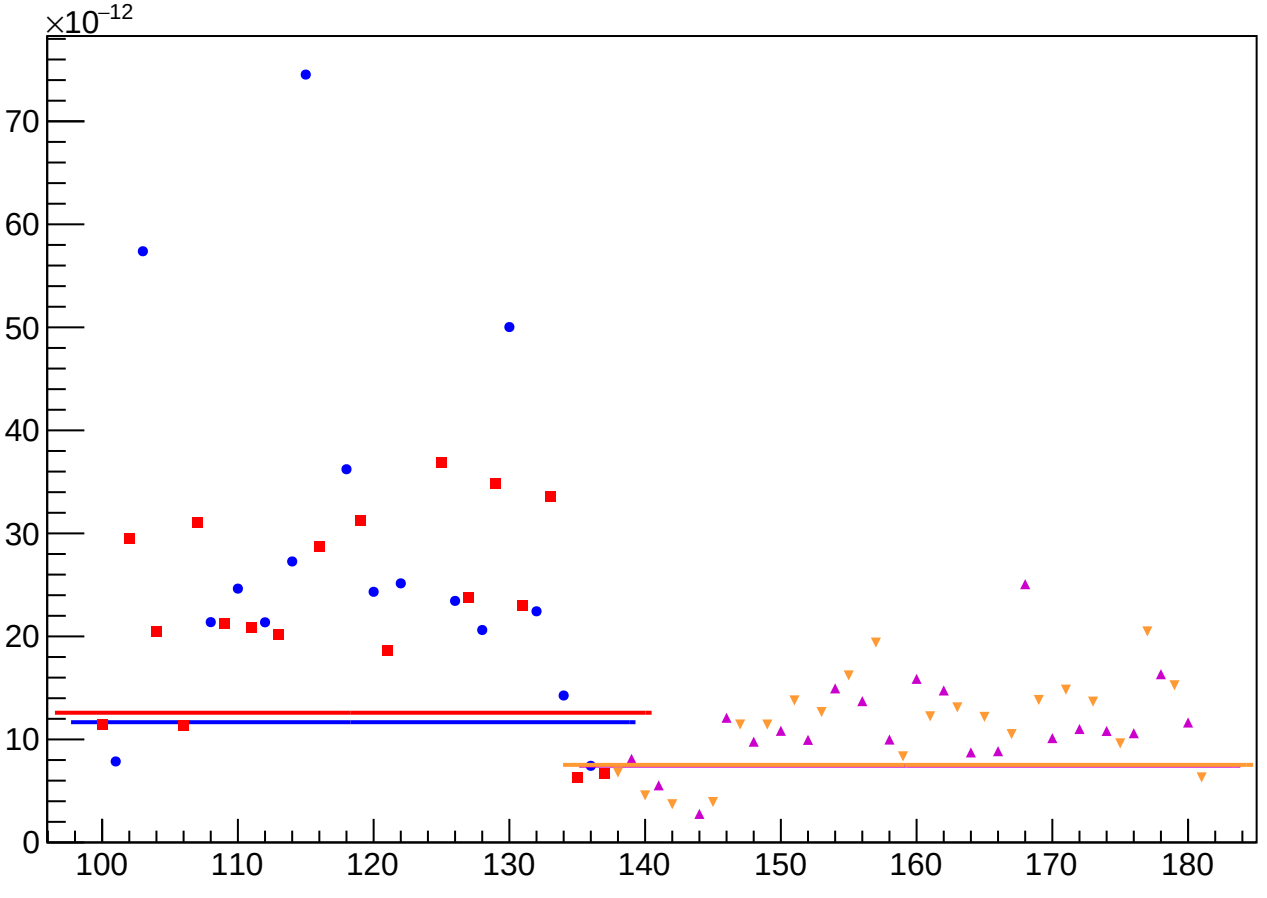
In: 47.021+/-0.007 $\chi^2$/NDF:2582534.3/36

Out: 44.822+/-0.007 $\chi^2$/NDF:3431821.8/39

All: 45.898+/-0.005 $\chi^2$/NDF: 6059788.3/76


asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.2
0.1
0
−0.1
−0.2
−0.3
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 5.4/15
Left Out: 0.000+/-0.000 χ²/NDF:14.2/21
Right Out: -0.000+/-0.000 χ²/NDF: 16.2/17
Left In: -0.000+/-0.000 χ²/NDF:17.5/20
Left: -0.000+/-0.000 χ²/NDF: 37.0/42
Right: -0.000+/-0.000 χ²/NDF: 25.5/33
In: -0.000+/-0.000 χ²/NDF:26.3/36
Out: 0.000+/-0.000 χ²/NDF:34.0/39
All: -0.000+/-0.000 χ²/NDF: 62.5/76

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2905247.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5524400.9/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2923298.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:5974537.5/20

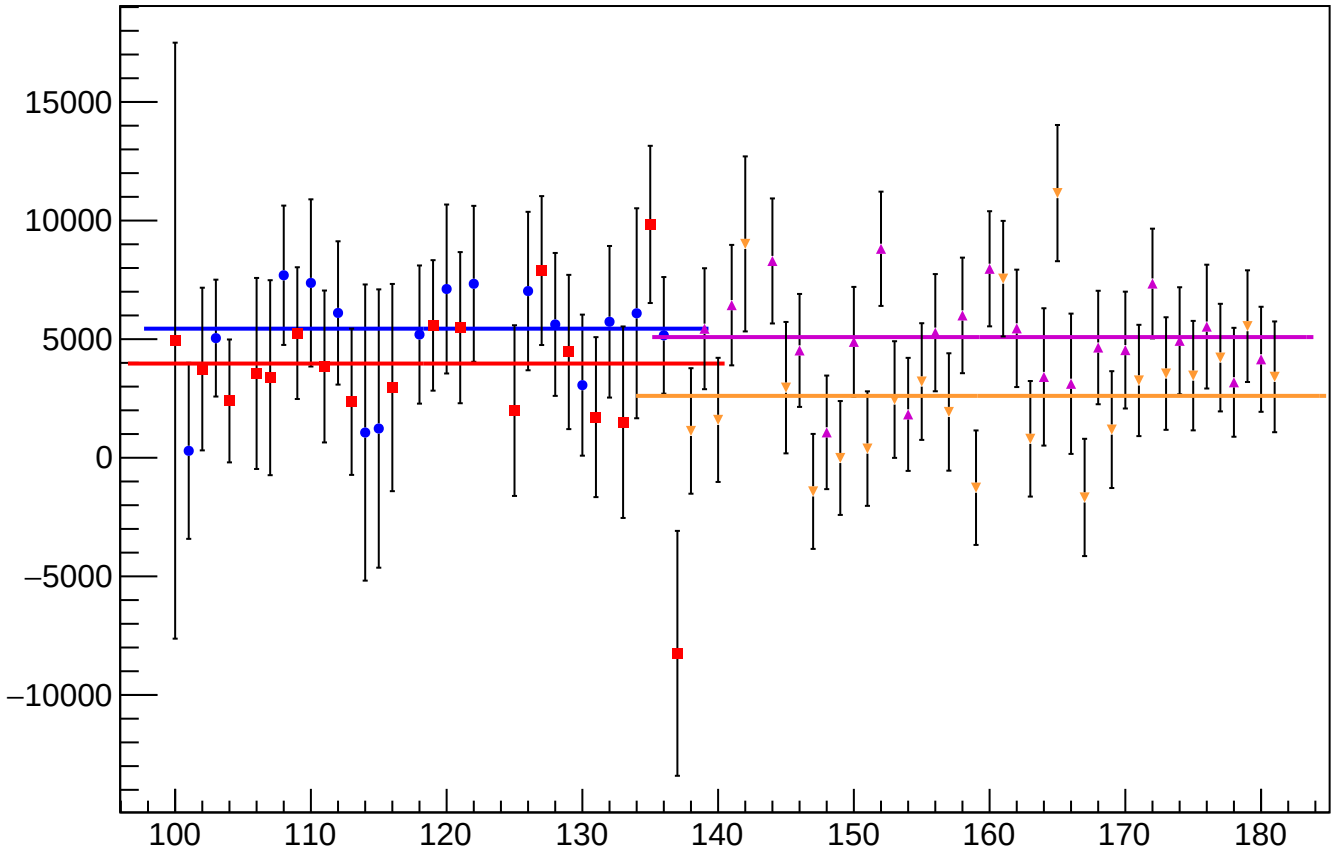
Left: 0.000+/-0.000 $\chi^2$/NDF: 11499926.3/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 5846038.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:9582217.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:9324663.5/39

All: 0.000+/-0.000 $\chi^2$/NDF: 18908464.9/76




Right In: 5442.336+/-812.534 $\chi^2$/NDF: 5.4/15

Left Out: 2609.197+/-529.577 $\chi^2$/NDF:30.4/21

Right Out: 3971.728+/-809.023 $\chi^2$/NDF: 13.0/17

Left In: 5087.712+/-534.448 $\chi^2$/NDF:13.2/20

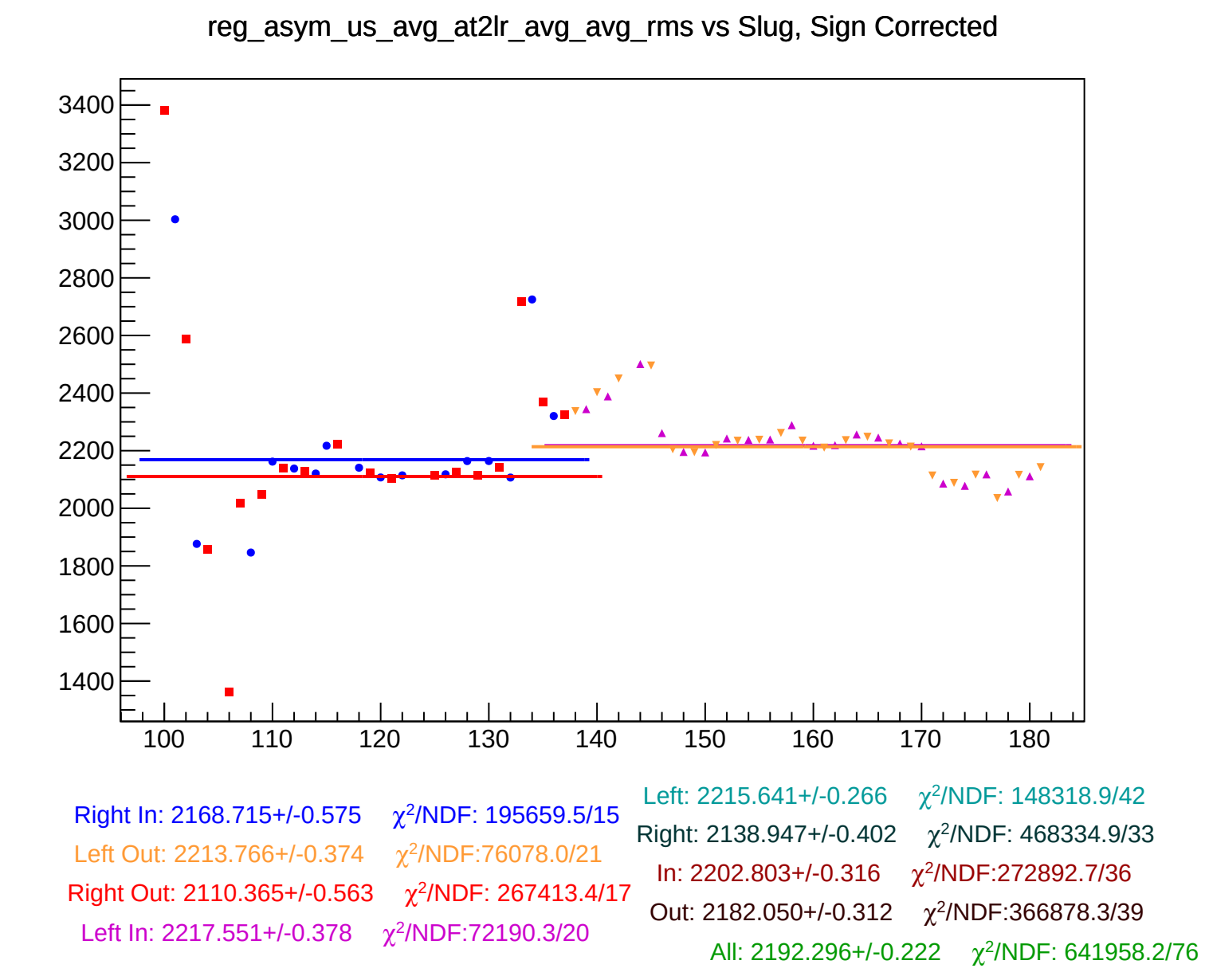
Left: 3837.109+/-376.178 $\chi^2$/NDF: 54.5/42

Right: 4703.849+/-573.303 $\chi^2$/NDF: 20.0/33

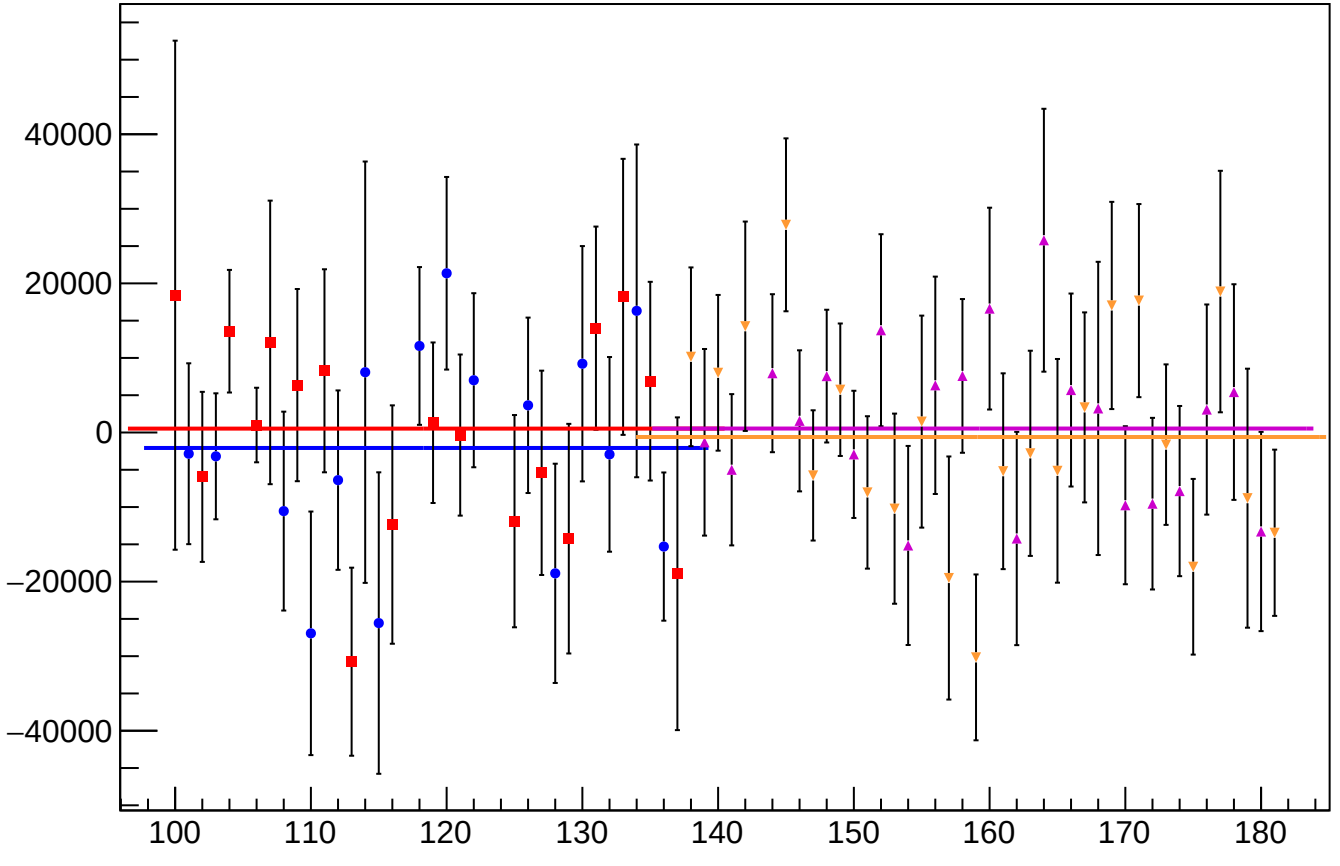
In: 5194.805+/-446.516 $\chi^2$/NDF:18.7/36

Out: 3017.900+/-443.089 $\chi^2$/NDF:45.4/39

All: 4097.968+/-314.516 $\chi^2$/NDF: 76.1/76


reg_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
100
110
120
130
140
150
160
170
180
Right In: 2168.715+/-0.575 χ²/NDF: 195659.5/15
Left Out: 2213.766+/-0.374 χ²/NDF:76078.0/21
Right Out: 2110.365+/-0.563 χ²/NDF: 267413.4/17
Left In: 2217.551+/-0.378 χ²/NDF:72190.3/20
Left: 2215.641+/-0.266 χ²/NDF: 148318.9/42
Right: 2138.947+/-0.402 χ²/NDF: 468334.9/33
In: 2202.803+/-0.316 χ²/NDF:272892.7/36
Out: 2182.050+/-0.312 χ²/NDF:366878.3/39
All: 2192.296+/-0.222 χ²/NDF: 641958.2/76

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -2074.843+/-3212.093 $\chi^2$/NDF: 14.4/15

Left Out: -606.600+/-2575.373 $\chi^2$/NDF:28.1/21

Right Out: 521.454+/-2715.587 $\chi^2$/NDF: 15.7/17

Left In: 530.880+/-2582.151 $\chi^2$/NDF:12.8/20

Left: -39.355+/-1823.455 $\chi^2$/NDF: 41.1/42

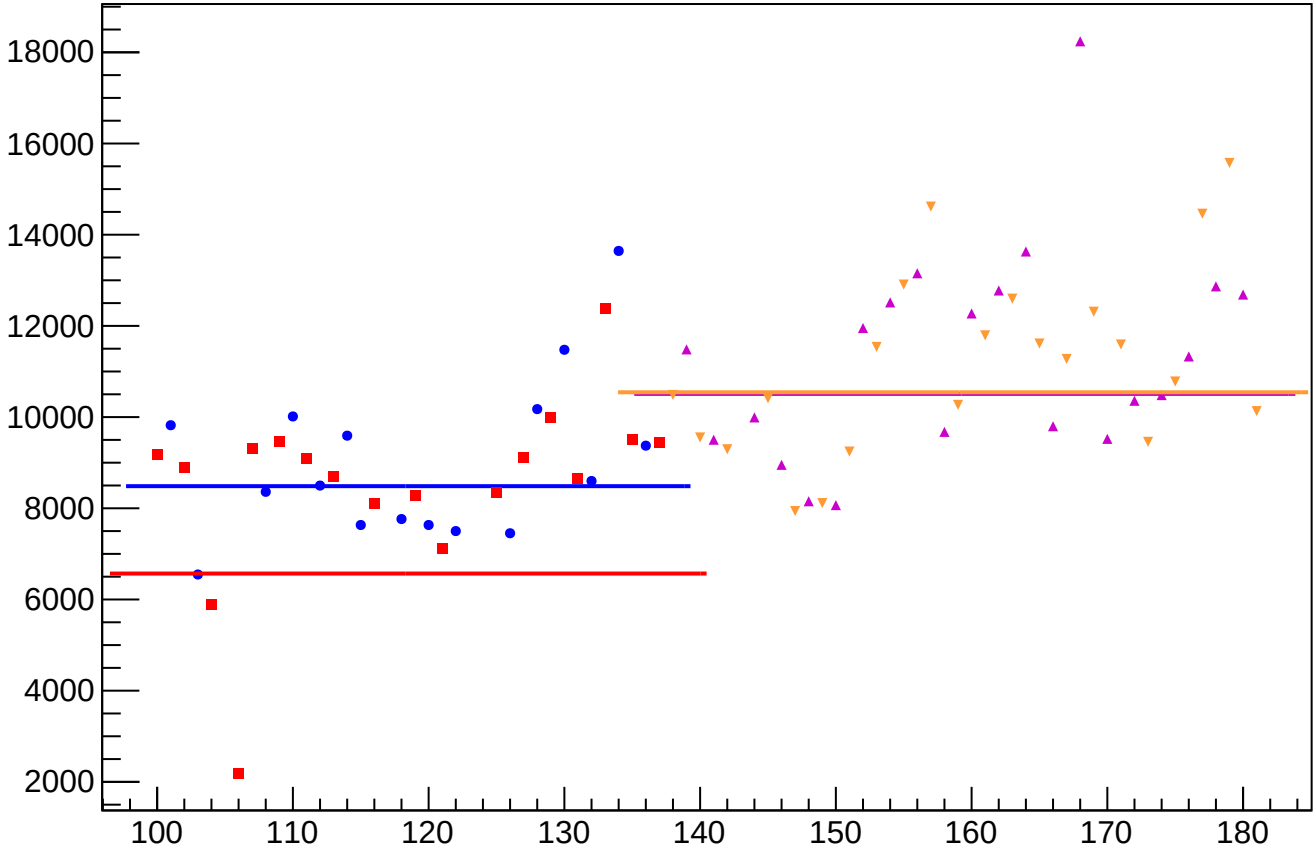
Right: -560.742+/-2073.786 $\chi^2$/NDF: 30.5/33

In: -492.000+/-2012.502 $\chi^2$/NDF:27.7/36

Out: -72.446+/-1868.667 $\chi^2$/NDF:43.9/39

All: -266.696+/-1369.376 $\chi^2$/NDF: 71.6/76

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 8485.000+/-2.271 $\chi^2$/NDF: 422706.1/15

Left Out: 10544.484+/-1.821 $\chi^2$/NDF:1021052.6/21

Right Out: 6568.711+/-1.920 $\chi^2$/NDF: 2568887.0/17

Left In: 10508.023+/-1.826 $\chi^2$/NDF:1136537.2/20

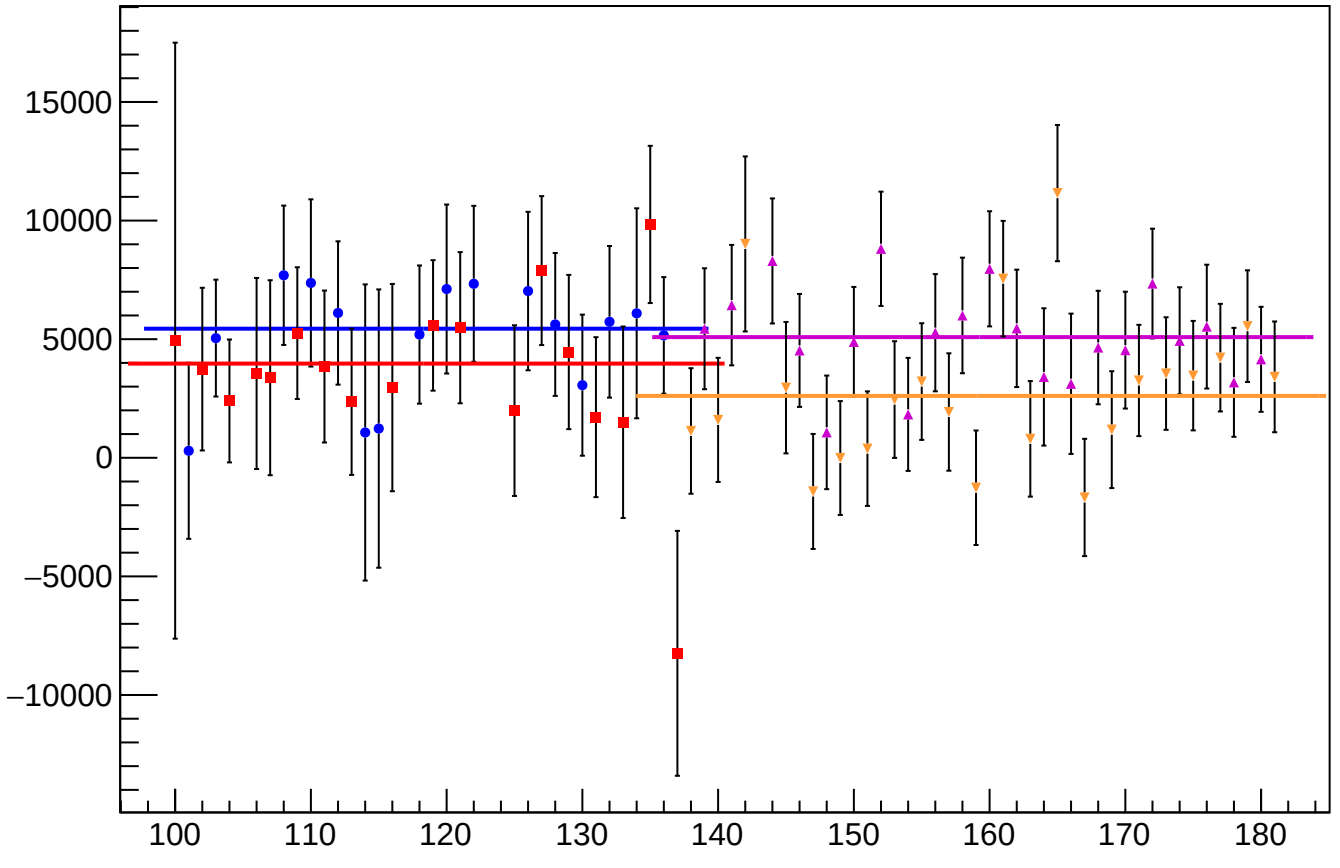
Left: 10526.301+/-1.289 $\chi^2$/NDF: 2157789.7/42

Right: 7367.464+/-1.466 $\chi^2$/NDF: 3406715.7/33

In: 9713.882+/-1.423 $\chi^2$/NDF:2041152.3/36

Out: 8661.884+/-1.321 $\chi^2$/NDF:5846928.2/39

All: 9148.950+/-0.968 $\chi^2$/NDF: 8181553.9/76




Right In: 5442.478+/-812.534 $\chi^2$/NDF: 5.4/15

Left Out: 2609.114+/-529.577 $\chi^2$/NDF:30.4/21

Right Out: 3971.470+/-809.023 $\chi^2$/NDF: 13.0/17

Left In: 5087.615+/-534.448 $\chi^2$/NDF:13.2/20

Left: 3837.019+/-376.178 $\chi^2$/NDF: 54.5/42

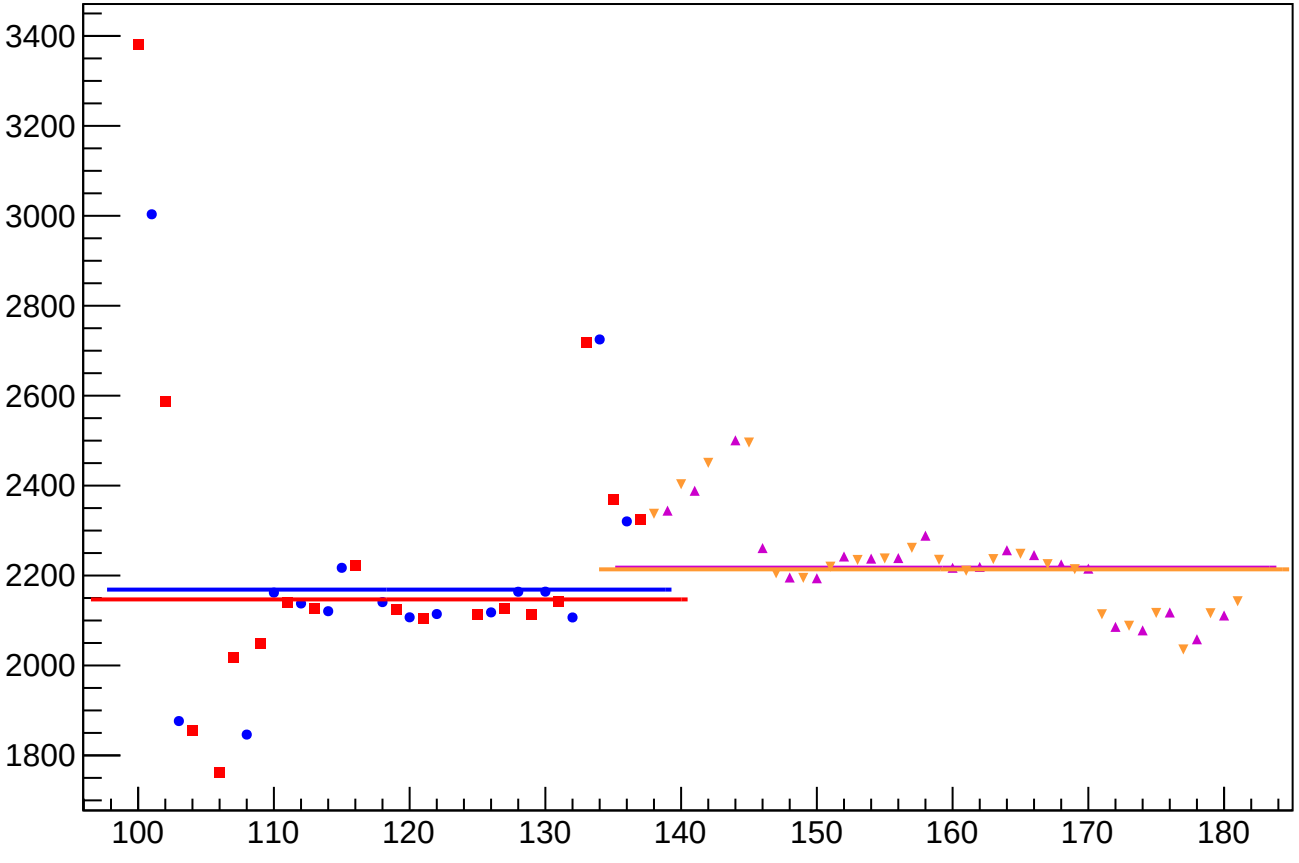
Right: 4703.790+/-573.303 $\chi^2$/NDF: 20.0/33

In: 5194.780+/-446.516 $\chi^2$/NDF:18.7/36

Out: 3017.764+/-443.089 $\chi^2$/NDF:45.4/39

All: 4097.887+/-314.516 $\chi^2$/NDF: 76.1/76

cor_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected




Right In: 2168.715+/-0.575 $\chi^2$/NDF: 195659.8/15

Left Out: 2213.766+/-0.374 $\chi^2$/NDF:76078.0/21

Right Out: 2146.888+/-0.569 $\chi^2$/NDF: 157750.7/17

Left In: 2217.551+/-0.378 $\chi^2$/NDF:72190.3/20

Left: 2215.641+/-0.266 $\chi^2$/NDF: 148318.9/42

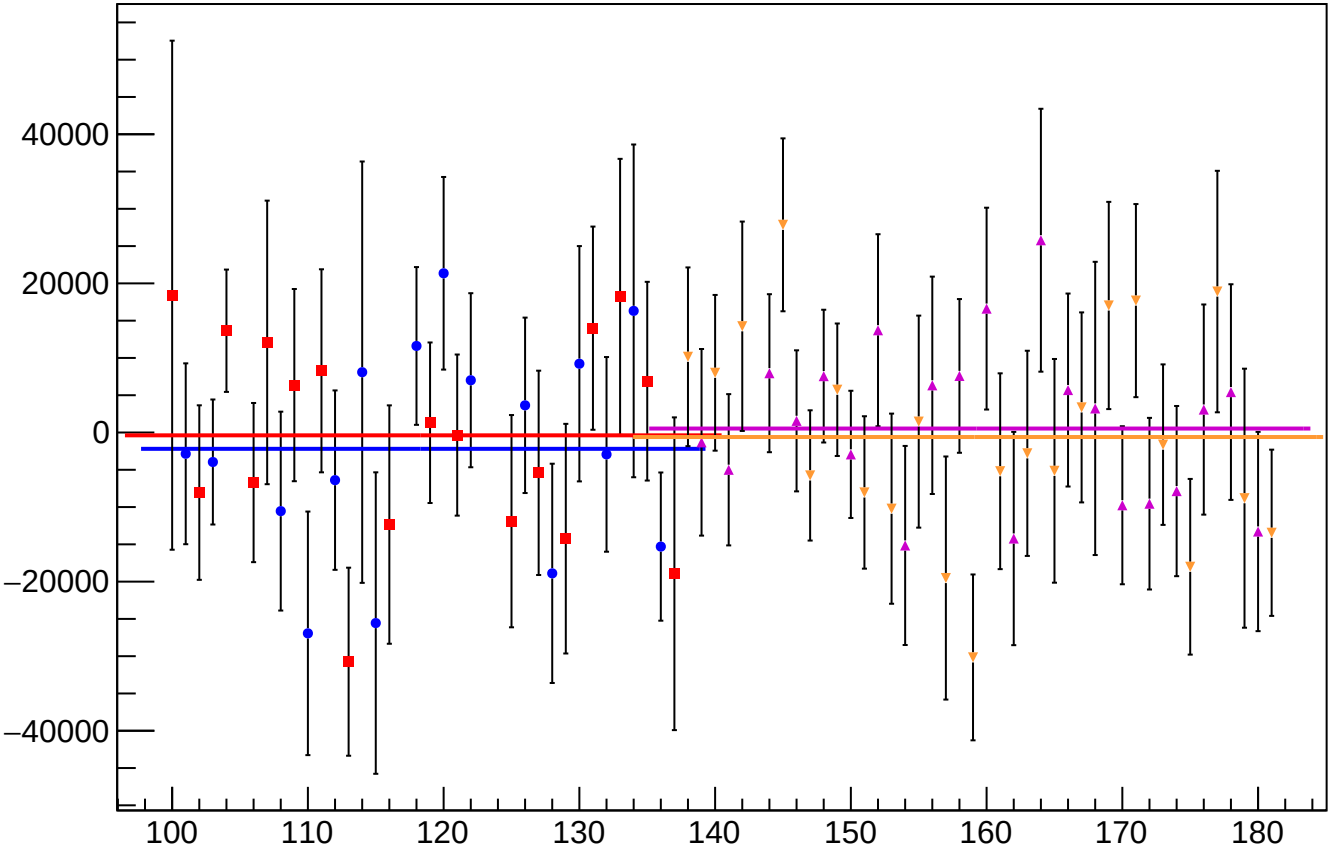
Right: 2157.700+/-0.404 $\chi^2$/NDF: 354138.9/33

In: 2202.803+/-0.316 $\chi^2$/NDF:272893.1/36

Out: 2193.565+/-0.313 $\chi^2$/NDF:243463.2/39

All: 2198.142+/-0.222 $\chi^2$/NDF: 516788.2/76

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -2189.256+/-3208.524 $\chi^2$/NDF: 14.5/15

Left Out: -606.586+/-2575.372 $\chi^2$/NDF:28.1/21

Right Out: -379.236+/-3099.953 $\chi^2$/NDF: 16.3/17

Left In: 530.954+/-2582.150 $\chi^2$/NDF:12.8/20

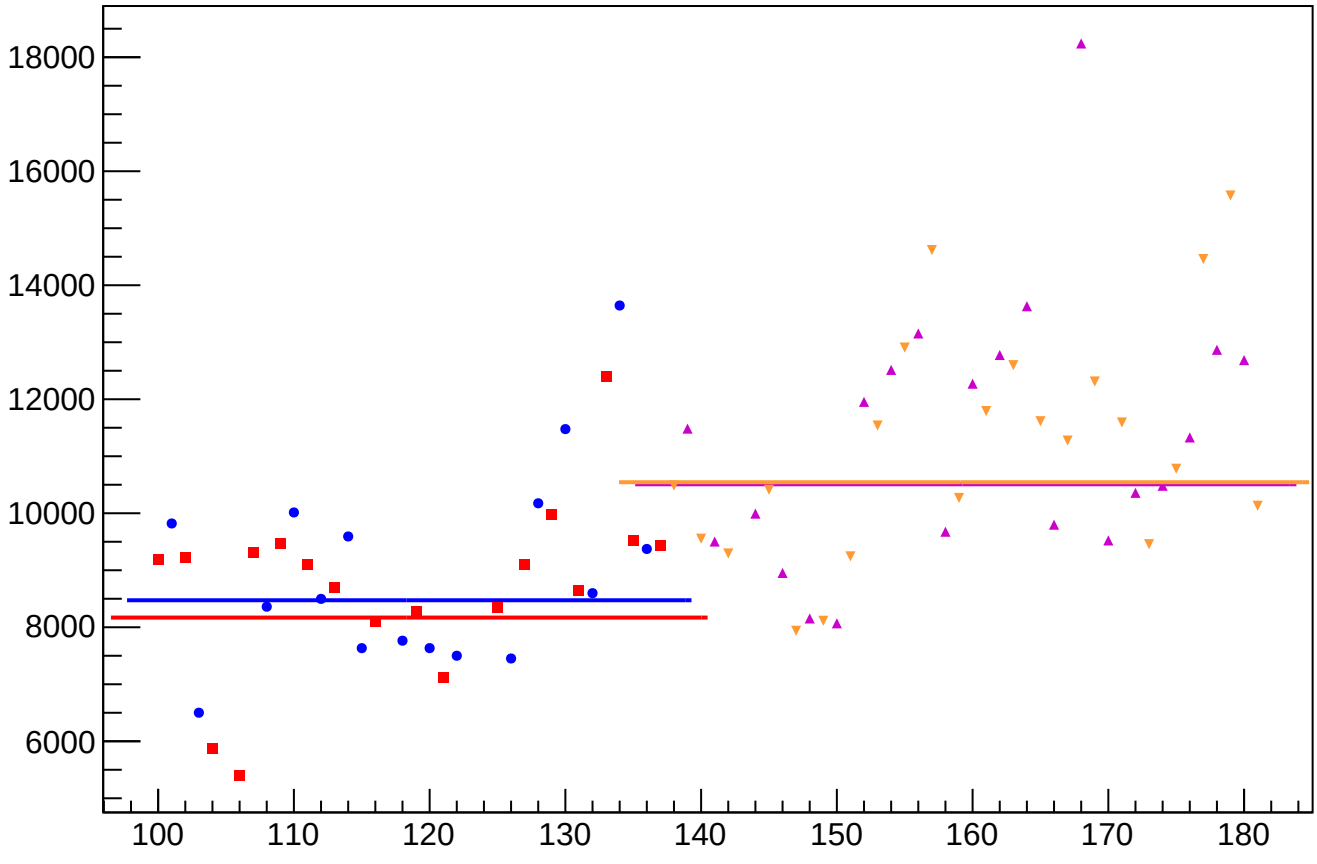
Left: -39.311+/-1823.455 $\chi^2$/NDF: 41.1/42

Right: -1253.105+/-2229.393 $\chi^2$/NDF: 30.9/33

In: -538.310+/-2011.623 $\chi^2$/NDF:27.7/36

Out: -513.747+/-1980.943 $\chi^2$/NDF:44.4/39

All: -525.840+/-1411.460 $\chi^2$/NDF: 72.2/76




Right In: 8473.743+/-2.269 $\chi^2$/NDF: 429547.3/15

Left Out: 10544.478+/-1.821 $\chi^2$/NDF:1021057.0/21

Right Out: 8170.027+/-2.192 $\chi^2$/NDF: 539925.8/17

Left In: 10508.016+/-1.826 $\chi^2$/NDF:1136540.8/20

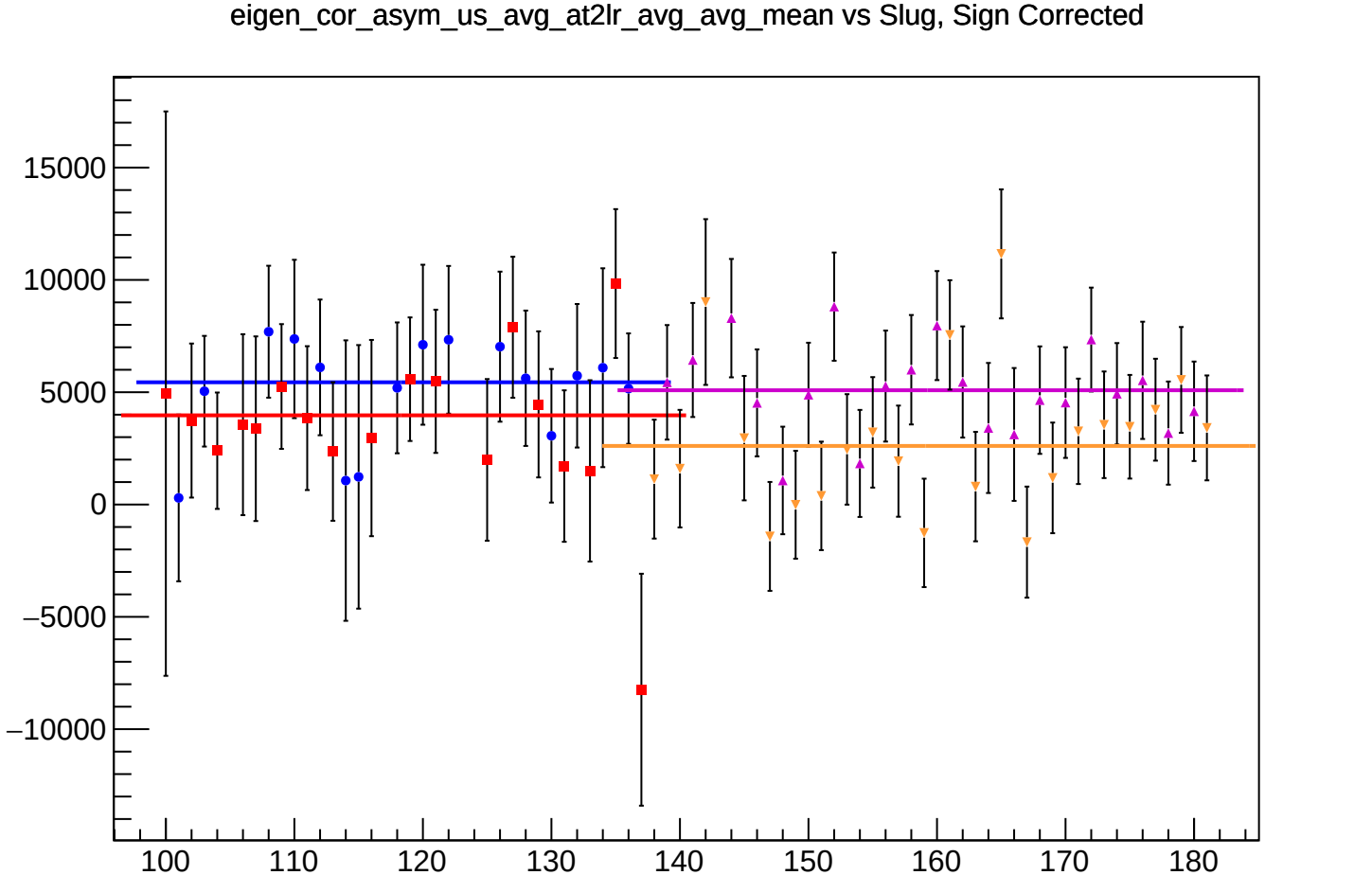
Left: 10526.295+/-1.289 $\chi^2$/NDF: 2157797.7/42

Right: 8316.660+/-1.576 $\chi^2$/NDF: 978741.7/33

In: 9708.381+/-1.422 $\chi^2$/NDF:2054030.3/36

Out: 9574.869+/-1.401 $\chi^2$/NDF:2255223.5/39

All: 9640.599+/-0.998 $\chi^2$/NDF: 4313726.6/76




Right In: 5442.478+/-812.534 $\chi^2$/NDF: 5.4/15

Left Out: 2609.114+/-529.577 $\chi^2$/NDF:30.4/21

Right Out: 3971.470+/-809.023 $\chi^2$/NDF: 13.0/17

Left In: 5087.615+/-534.448 $\chi^2$/NDF:13.2/20

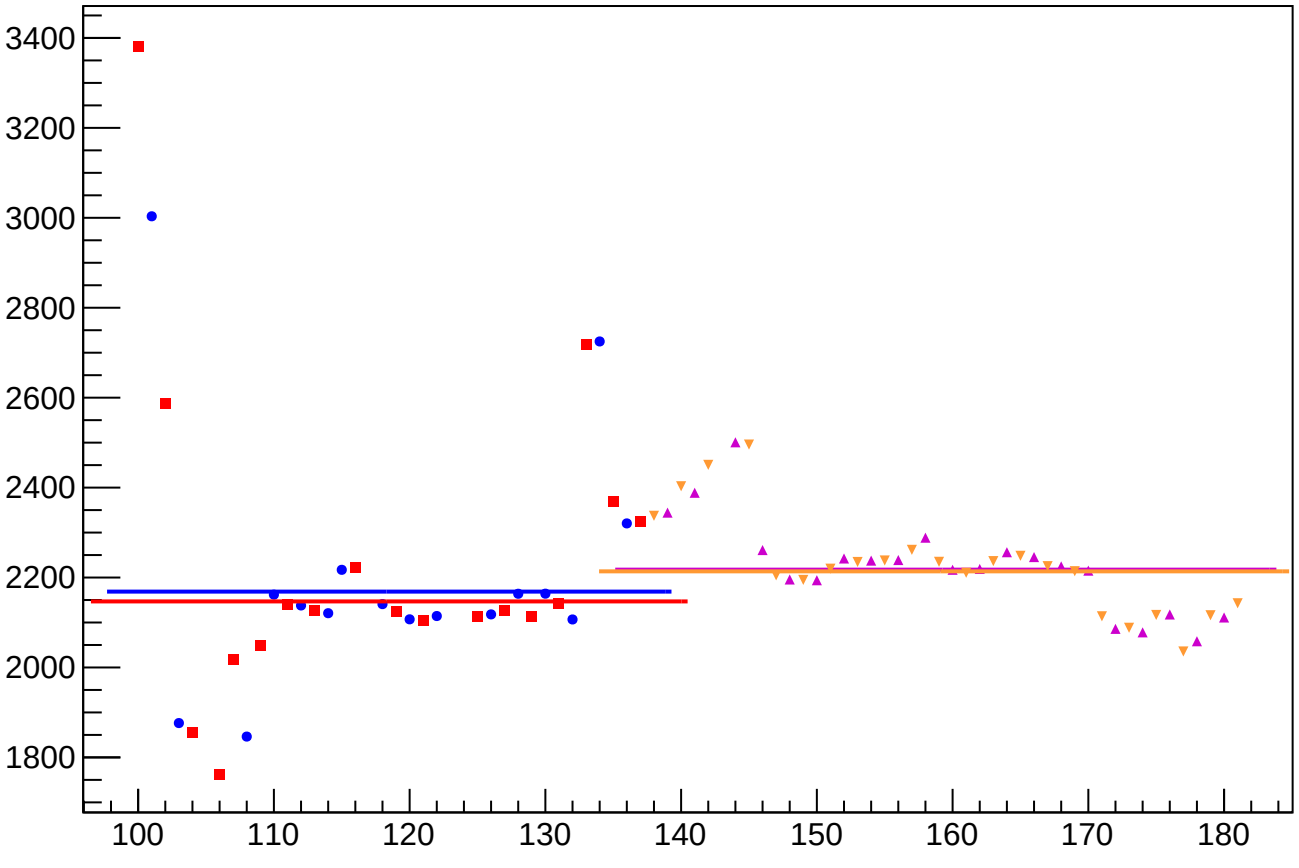
Left: 3837.019+/-376.178 $\chi^2$/NDF: 54.5/42

Right: 4703.790+/-573.303 $\chi^2$/NDF: 20.0/33

In: 5194.780+/-446.516 $\chi^2$/NDF:18.7/36

Out: 3017.764+/-443.089 $\chi^2$/NDF:45.4/39

All: 4097.887+/-314.516 $\chi^2$/NDF: 76.1/76




Right In: 2168.715+/-0.575 $\chi^2$/NDF: 195659.8/15

Left Out: 2213.766+/-0.374 $\chi^2$/NDF:76078.0/21

Right Out: 2146.888+/-0.569 $\chi^2$/NDF: 157750.7/17

Left In: 2217.551+/-0.378 $\chi^2$/NDF:72190.3/20

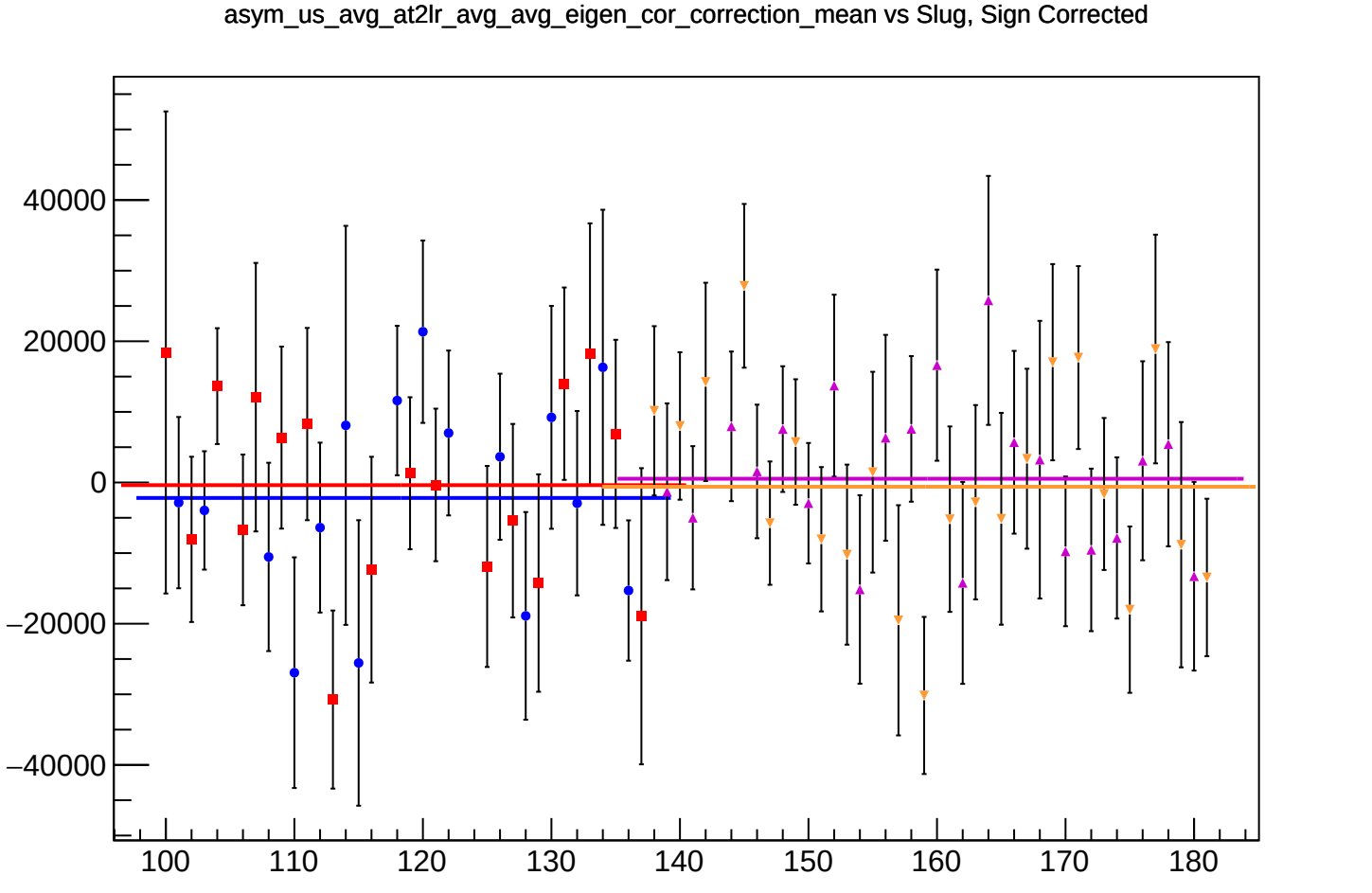
Left: 2215.641+/-0.266 $\chi^2$/NDF: 148318.9/42

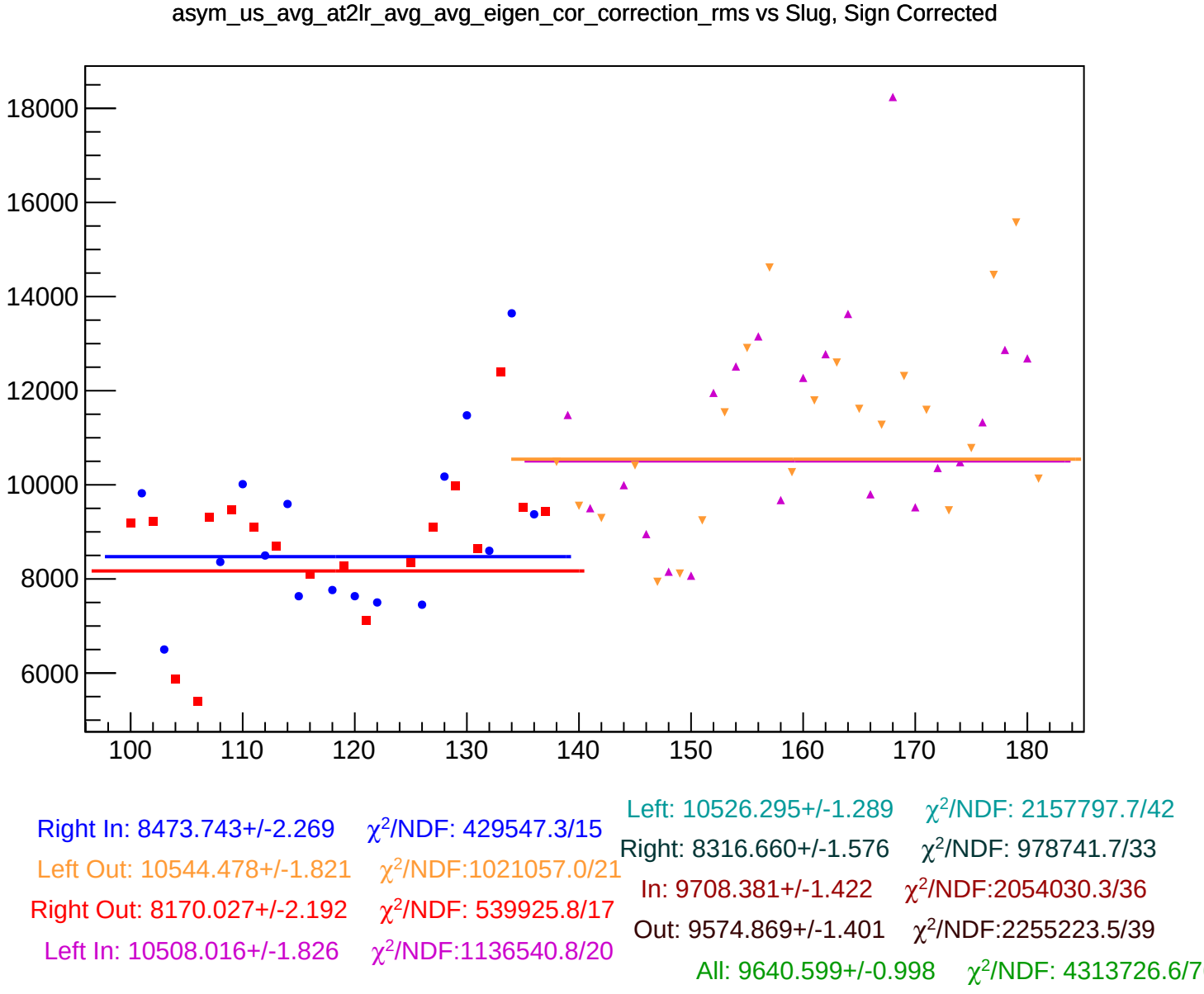
Right: 2157.700+/-0.404 $\chi^2$/NDF: 354138.9/33

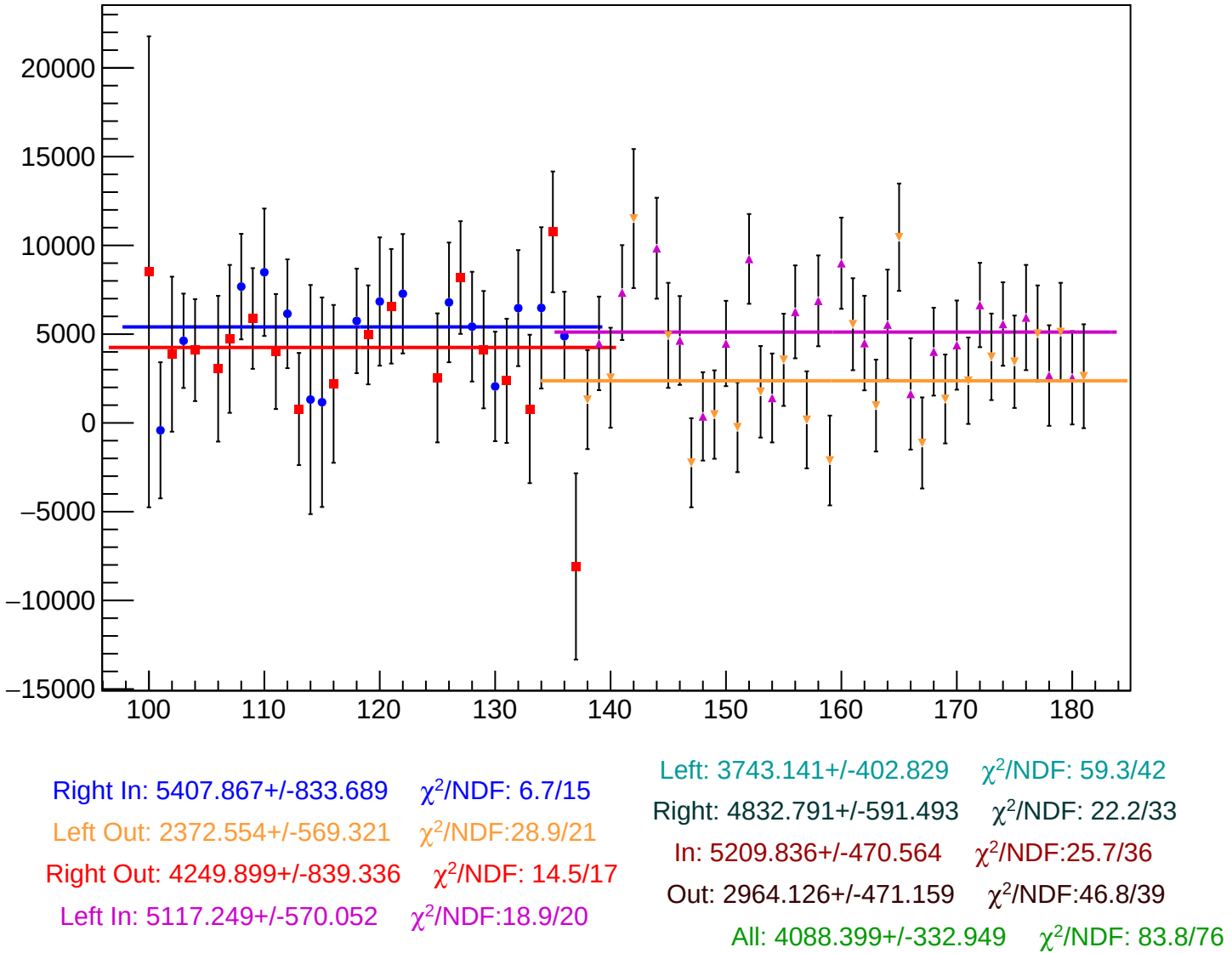
In: 2202.803+/-0.316 $\chi^2$/NDF:272893.1/36

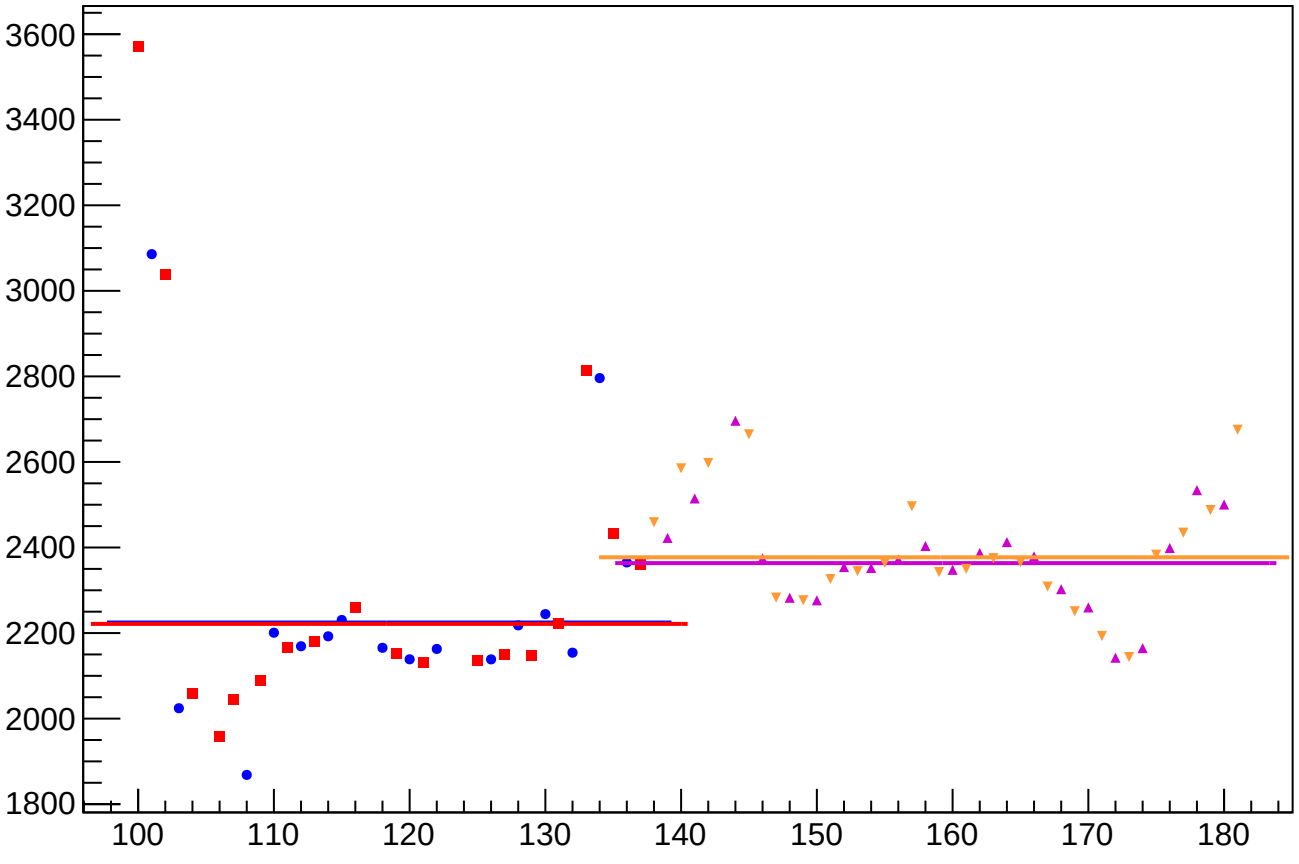
Out: 2193.565+/-0.313 $\chi^2$/NDF:243463.2/39

All: 2198.142+/-0.222 $\chi^2$/NDF: 516788.2/76


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
40000
20000
0
−20000
−40000
100
110
120
130
140
150
160
170
180
Right In: -2189.256+/-3208.524 χ²/NDF: 14.5/15
Left Out: -606.586+/-2575.372 χ²/NDF:28.1/21
Right Out: -379.236+/-3099.953 χ²/NDF: 16.3/17
Left In: 530.954+/-2582.150 χ²/NDF:12.8/20
Left: -39.311+/-1823.455 χ²/NDF: 41.1/42
Right: -1253.105+/-2229.393 χ²/NDF: 30.9/33
In: -538.310+/-2011.623 χ²/NDF:27.7/36
Out: -513.747+/-1980.943 χ²/NDF:44.4/39
All: -525.840+/-1411.460 χ²/NDF: 72.2/76


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
18000
16000
14000
12000
10000
8000
6000
100
110
120
130
140
150
160
170
180
Right In: 8473.743+/-2.269 χ²/NDF: 429547.3/15
Left Out: 10544.478+/-1.821 χ²/NDF:1021057.0/21
Right Out: 8170.027+/-2.192 χ²/NDF: 539925.8/17
Left In: 10508.016+/-1.826 χ²/NDF:1136540.8/20
Left: 10526.295+/-1.289 χ²/NDF: 2157797.7/42
Right: 8316.660+/-1.576 χ²/NDF: 978741.7/33
In: 9708.381+/-1.422 χ²/NDF:2054030.3/36
Out: 9574.869+/-1.401 χ²/NDF:2255223.5/39
All: 9640.599+/-0.998 χ²/NDF: 4313726.6/76


dit_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 5407.867+/-833.689 χ²/NDF: 6.7/15
Left Out: 2372.554+/-569.321 χ²/NDF:28.9/21
Right Out: 4249.899+/-839.336 χ²/NDF: 14.5/17
Left In: 5117.249+/-570.052 χ²/NDF:18.9/20
Left: 3743.141+/-402.829 χ²/NDF: 59.3/42
Right: 4832.791+/-591.493 χ²/NDF: 22.2/33
In: 5209.836+/-470.564 χ²/NDF:25.7/36
Out: 2964.126+/-471.159 χ²/NDF:46.8/39
All: 4088.399+/-332.949 χ²/NDF: 83.8/76




Right In: 2224.614+/-0.590 $\chi^2$/NDF: 184679.8/15

Left Out: 2377.128+/-0.403 $\chi^2$/NDF:110591.6/21

Right Out: 2221.425+/-0.593 $\chi^2$/NDF: 169944.3/17

Left In: 2363.496+/-0.403 $\chi^2$/NDF:90147.0/20

Left: 2370.321+/-0.285 $\chi^2$/NDF: 201311.2/42

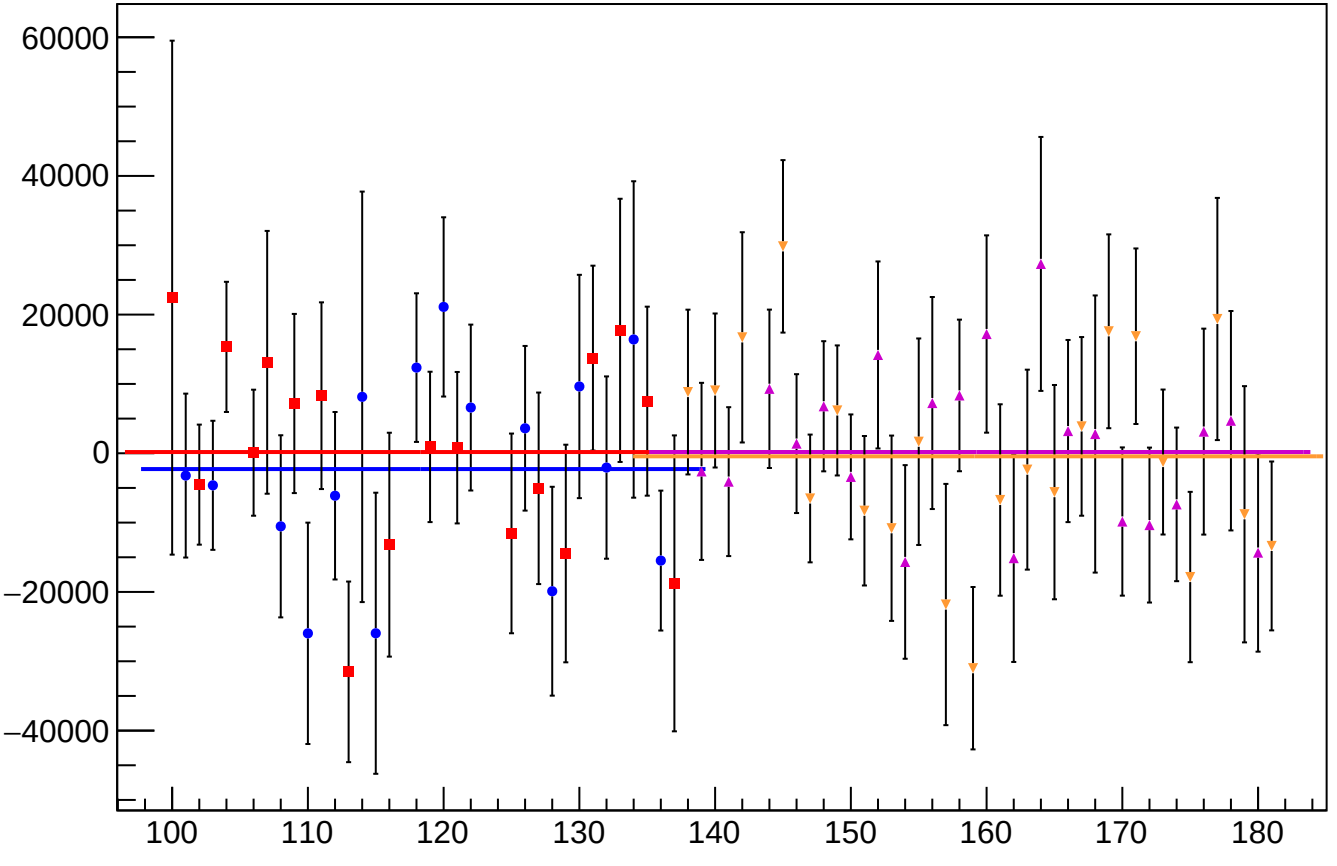
Right: 2223.029+/-0.418 $\chi^2$/NDF: 354638.7/33

In: 2319.250+/-0.333 $\chi^2$/NDF:312647.3/36

Out: 2328.023+/-0.333 $\chi^2$/NDF:327713.6/39

All: 2323.632+/-0.235 $\chi^2$/NDF: 640708.0/76

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -2278.440+/-3271.750 $\chi^2$/NDF: 14.5/15

Left Out: -441.394+/-2684.054 $\chi^2$/NDF:27.6/21

Right Out: 177.024+/-3035.355 $\chi^2$/NDF: 15.6/17

Left In: 180.351+/-2687.957 $\chi^2$/NDF:12.8/20

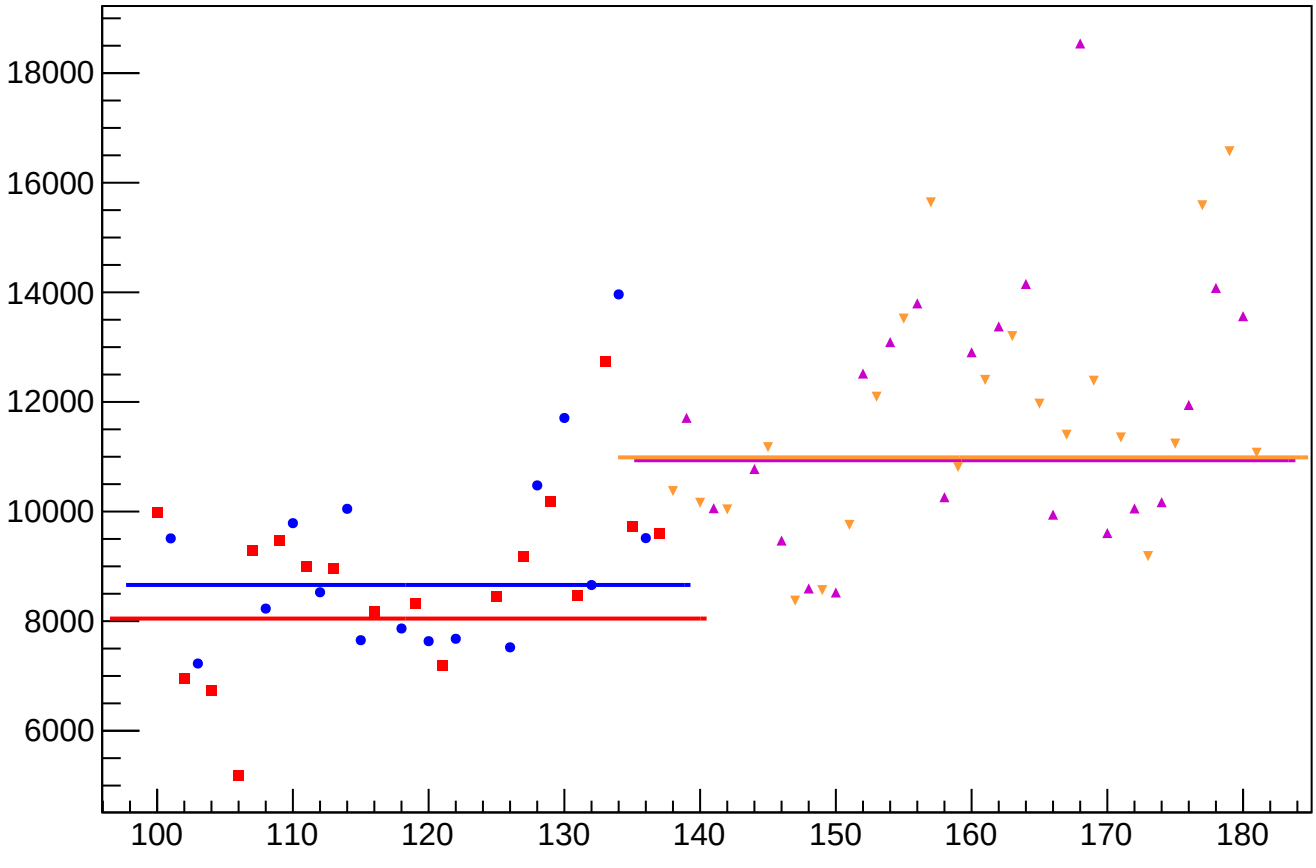
Left: -130.973+/-1899.291 $\chi^2$/NDF: 40.4/42

Right: -958.805+/-2225.203 $\chi^2$/NDF: 30.4/33

In: -810.478+/-2076.915 $\chi^2$/NDF:27.6/36

Out: -170.027+/-2010.698 $\chi^2$/NDF:43.2/39

All: -479.880+/-1444.621 $\chi^2$/NDF: 70.9/76




Right In: 8660.733+/-2.313 $\chi^2$/NDF: 357961.9/15

Left Out: 10988.692+/-1.898 $\chi^2$/NDF:1041885.3/21

Right Out: 8047.460+/-2.146 $\chi^2$/NDF: 558559.6/17

Left In: 10936.307+/-1.901 $\chi^2$/NDF:1147427.5/20

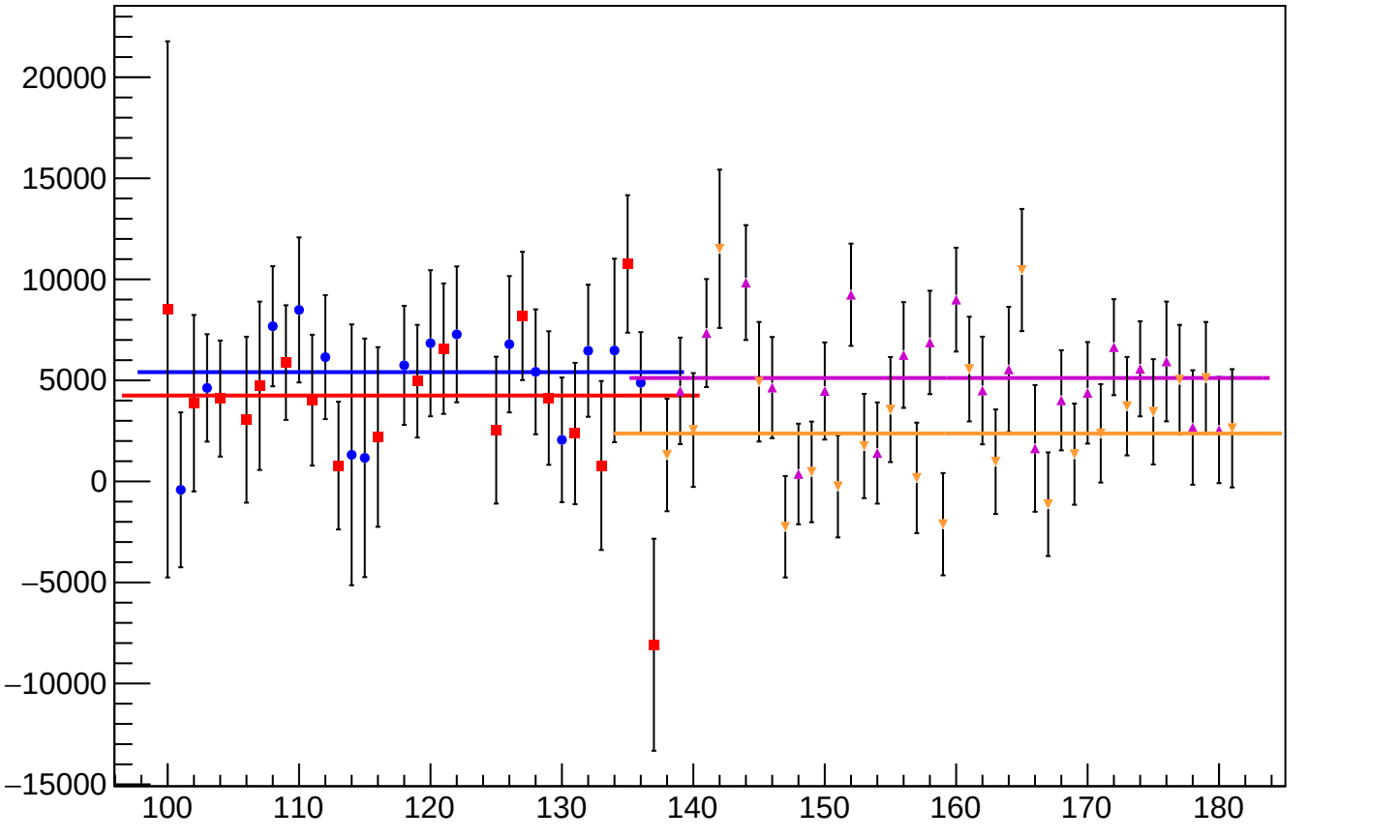
Left: 10962.538+/-1.343 $\chi^2$/NDF: 2189693.2/42

Right: 8331.143+/-1.573 $\chi^2$/NDF: 954287.2/33

In: 10019.309+/-1.469 $\chi^2$/NDF:2083013.3/36

Out: 9698.055+/-1.422 $\chi^2$/NDF:2654299.7/39

All: 9853.479+/-1.022 $\chi^2$/NDF: 4762013.4/76




Right In: 5407.869+/-833.688 $\chi^2$/NDF: 6.7/15

Left Out: 2372.542+/-569.322 $\chi^2$/NDF:28.9/21

Right Out: 4249.903+/-839.335 $\chi^2$/NDF: 14.5/17

Left In: 5117.253+/-570.053 $\chi^2$/NDF:18.9/20

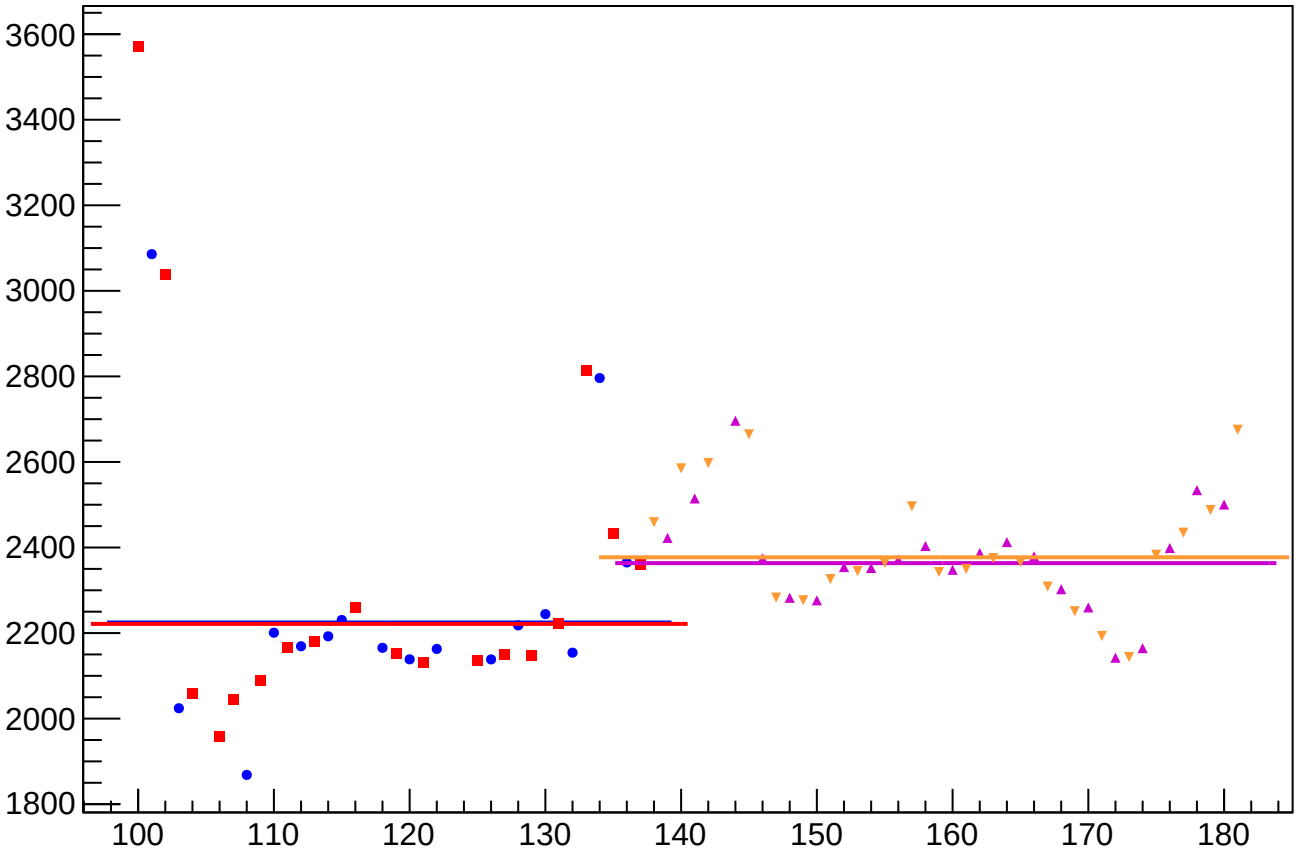
Left: 3743.137+/-402.829 $\chi^2$/NDF: 59.3/42

Right: 4832.794+/-591.493 $\chi^2$/NDF: 22.2/33

In: 5209.840+/-470.565 $\chi^2$/NDF:25.7/36

Out: 2964.121+/-471.159 $\chi^2$/NDF:46.8/39

All: 4088.398+/-332.950 $\chi^2$/NDF: 83.8/76




Right In: 2224.613+/-0.590 $\chi^2$/NDF: 184680.1/15

Left Out: 2377.131+/-0.403 $\chi^2$/NDF:110596.0/21

Right Out: 2221.425+/-0.593 $\chi^2$/NDF: 169944.3/17

Left In: 2363.500+/-0.403 $\chi^2$/NDF:90151.6/20

Left: 2370.324+/-0.285 $\chi^2$/NDF: 201320.2/42

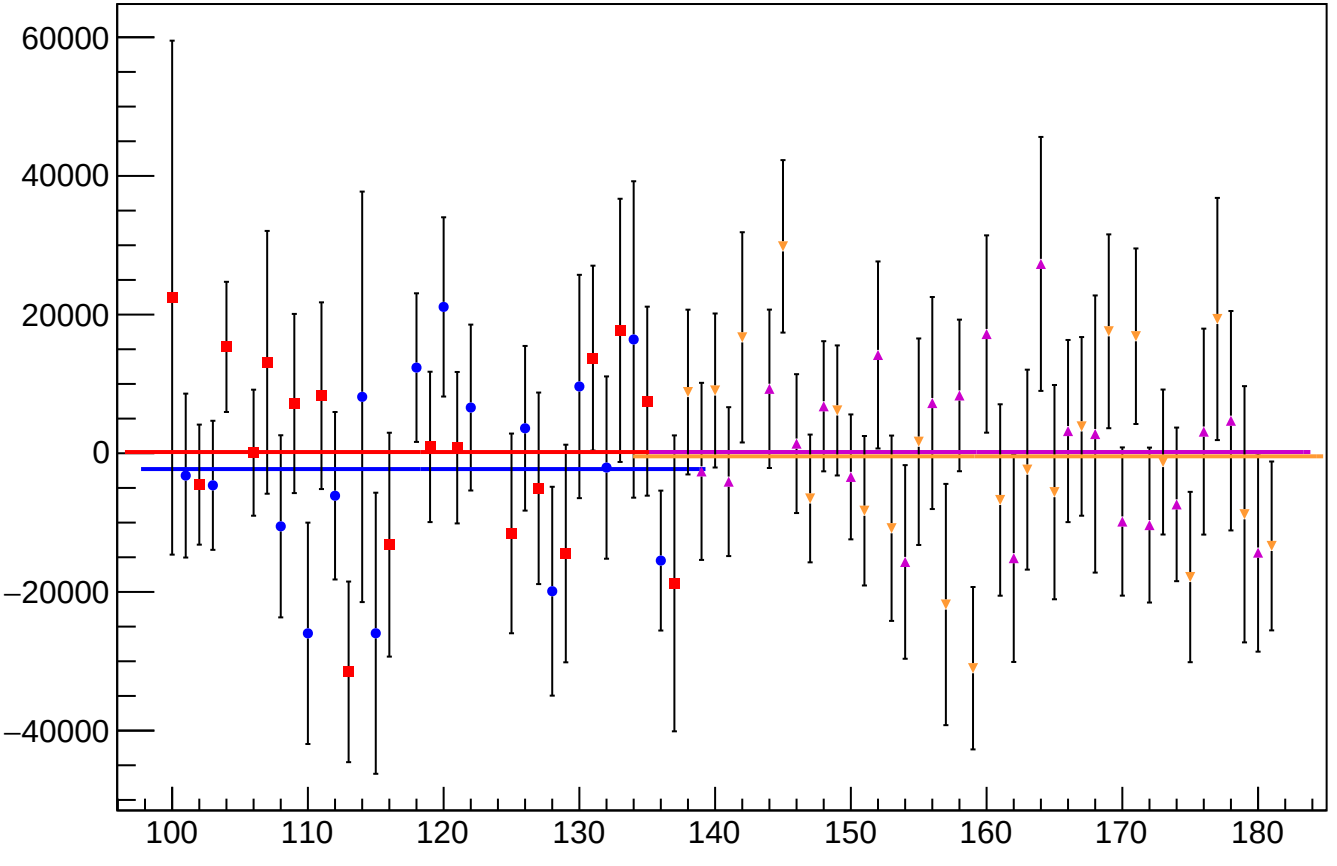
Right: 2223.029+/-0.418 $\chi^2$/NDF: 354639.0/33

In: 2319.252+/-0.333 $\chi^2$/NDF:312654.3/36

Out: 2328.025+/-0.333 $\chi^2$/NDF:327720.4/39

All: 2323.634+/-0.235 $\chi^2$/NDF: 640721.9/76

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -2278.418+/-3271.742 $\chi^2$/NDF: 14.5/15

Left Out: -441.401+/-2684.059 $\chi^2$/NDF:27.6/21

Right Out: 177.029+/-3035.348 $\chi^2$/NDF: 15.6/17

Left In: 180.351+/-2687.961 $\chi^2$/NDF:12.8/20

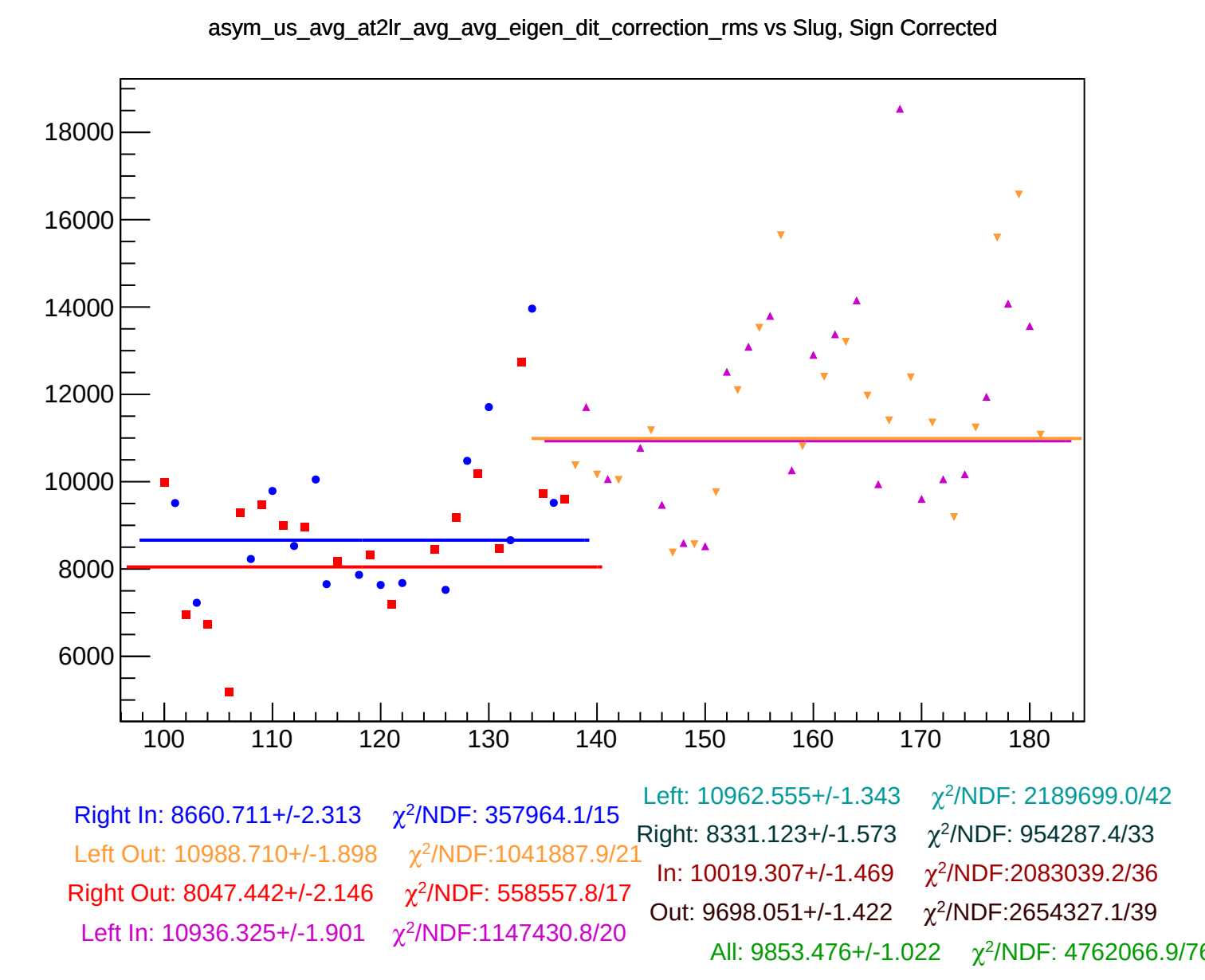
Left: -130.977+/-1899.294 $\chi^2$/NDF: 40.4/42

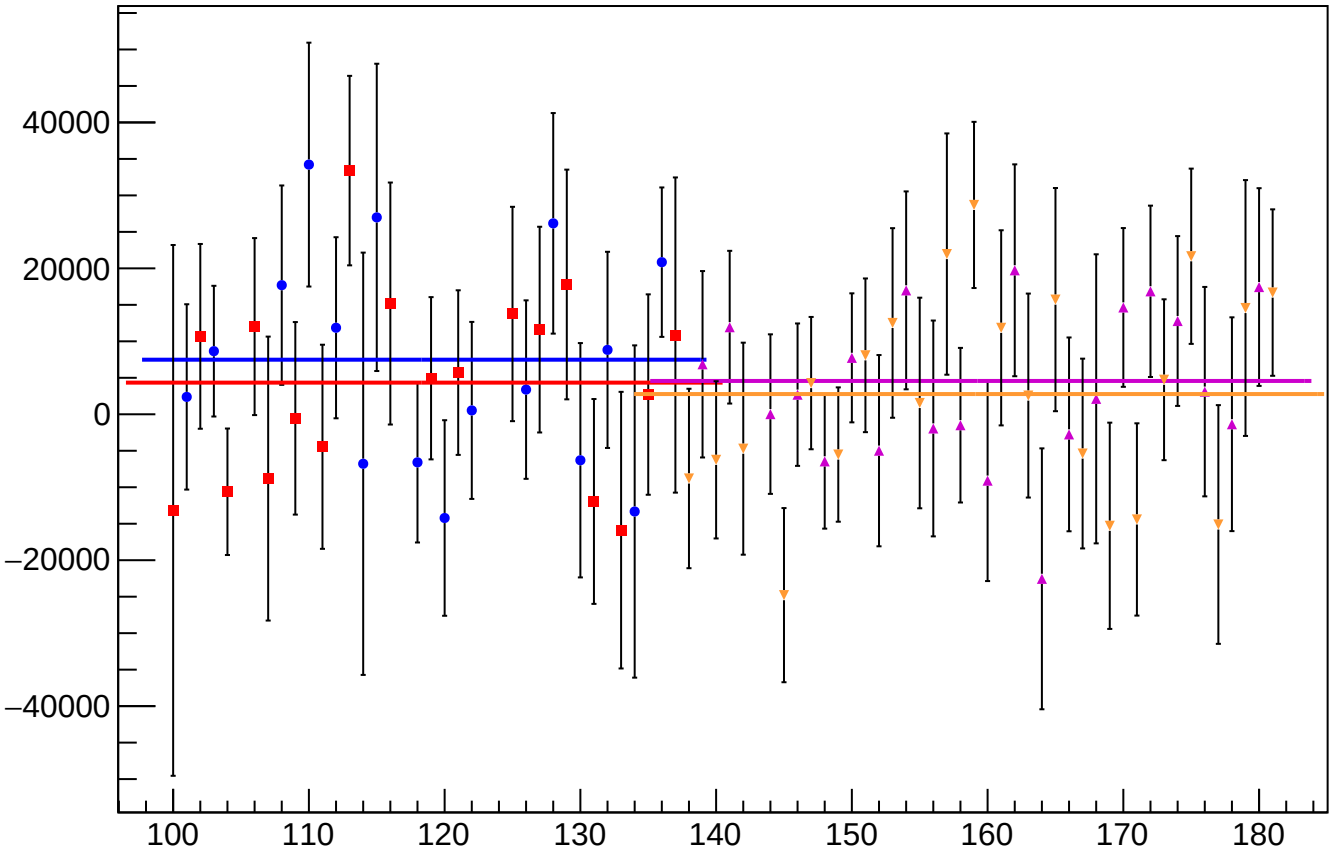
Right: -958.792+/-2225.198 $\chi^2$/NDF: 30.4/33

In: -810.474+/-2076.915 $\chi^2$/NDF:27.6/36

Out: -170.028+/-2010.698 $\chi^2$/NDF:43.2/39

All: -479.879+/-1444.621 $\chi^2$/NDF: 70.9/76


asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected
18000
16000
14000
12000
10000
8000
6000
100
110
120
130
140
150
160
170
180
Right In: 8660.711+/-2.313 χ²/NDF: 357964.1/15
Left Out: 10988.710+/-1.898 χ²/NDF:1041887.9/21
Right Out: 8047.442+/-2.146 χ²/NDF: 558557.8/17
Left In: 10936.325+/-1.901 χ²/NDF:1147430.8/20
Left: 10962.555+/-1.343 χ²/NDF: 2189699.0/42
Right: 8331.123+/-1.573 χ²/NDF: 954287.4/33
In: 10019.307+/-1.469 χ²/NDF:2083039.2/36
Out: 9698.051+/-1.422 χ²/NDF:2654327.1/39
All: 9853.476+/-1.022 χ²/NDF: 4762066.9/76




Right In: 7481.770+/-3330.915 $\chi^2$/NDF: 14.0/15

Left Out: 2772.609+/-2639.364 $\chi^2$/NDF:25.9/21

Right Out: 4338.165+/-3242.620 $\chi^2$/NDF: 14.3/17

Left In: 4568.318+/-2646.129 $\chi^2$/NDF:12.4/20

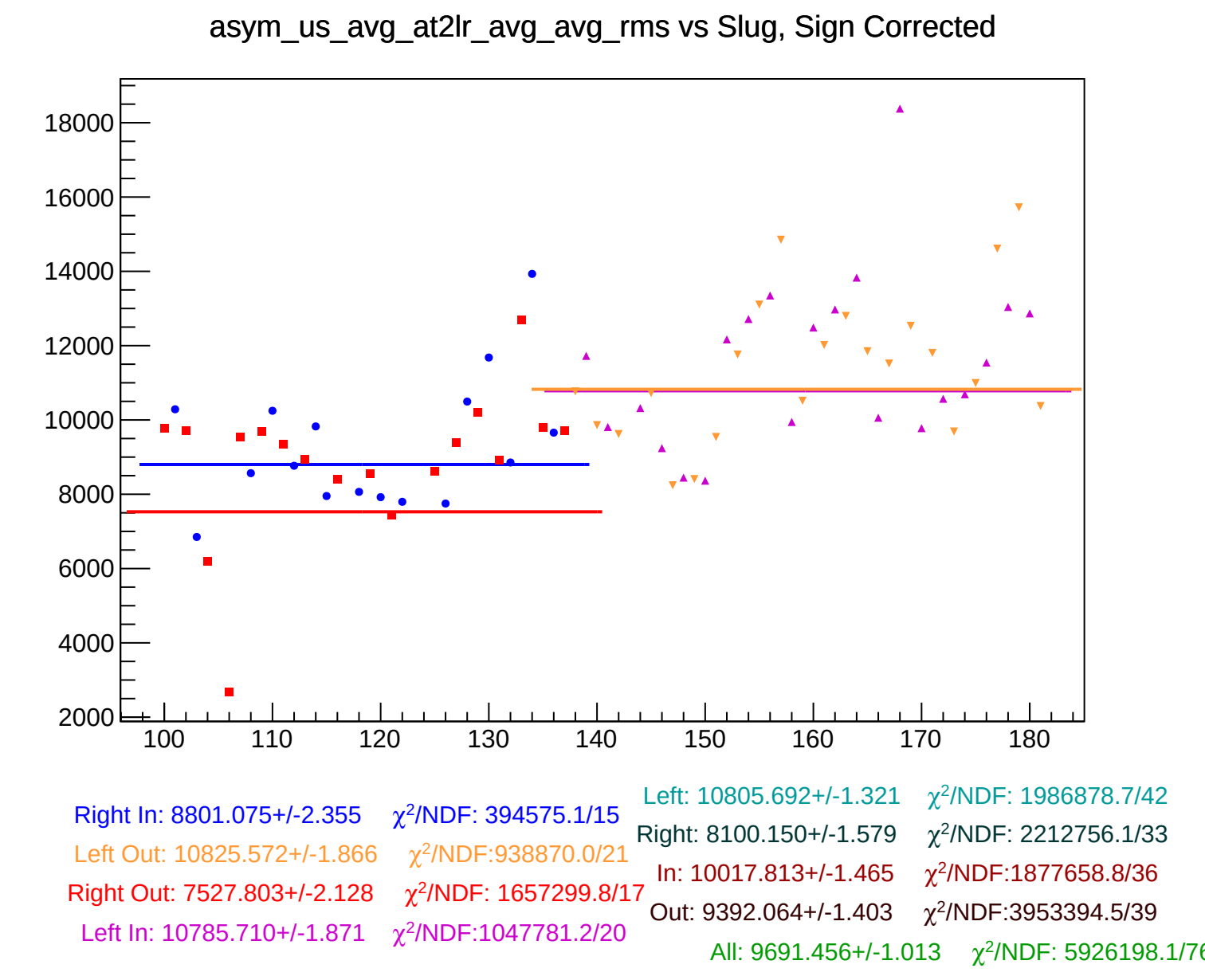
Left: 3668.165+/-1868.699 $\chi^2$/NDF: 38.6/42

Right: 5867.751+/-2323.467 $\chi^2$/NDF: 28.8/33

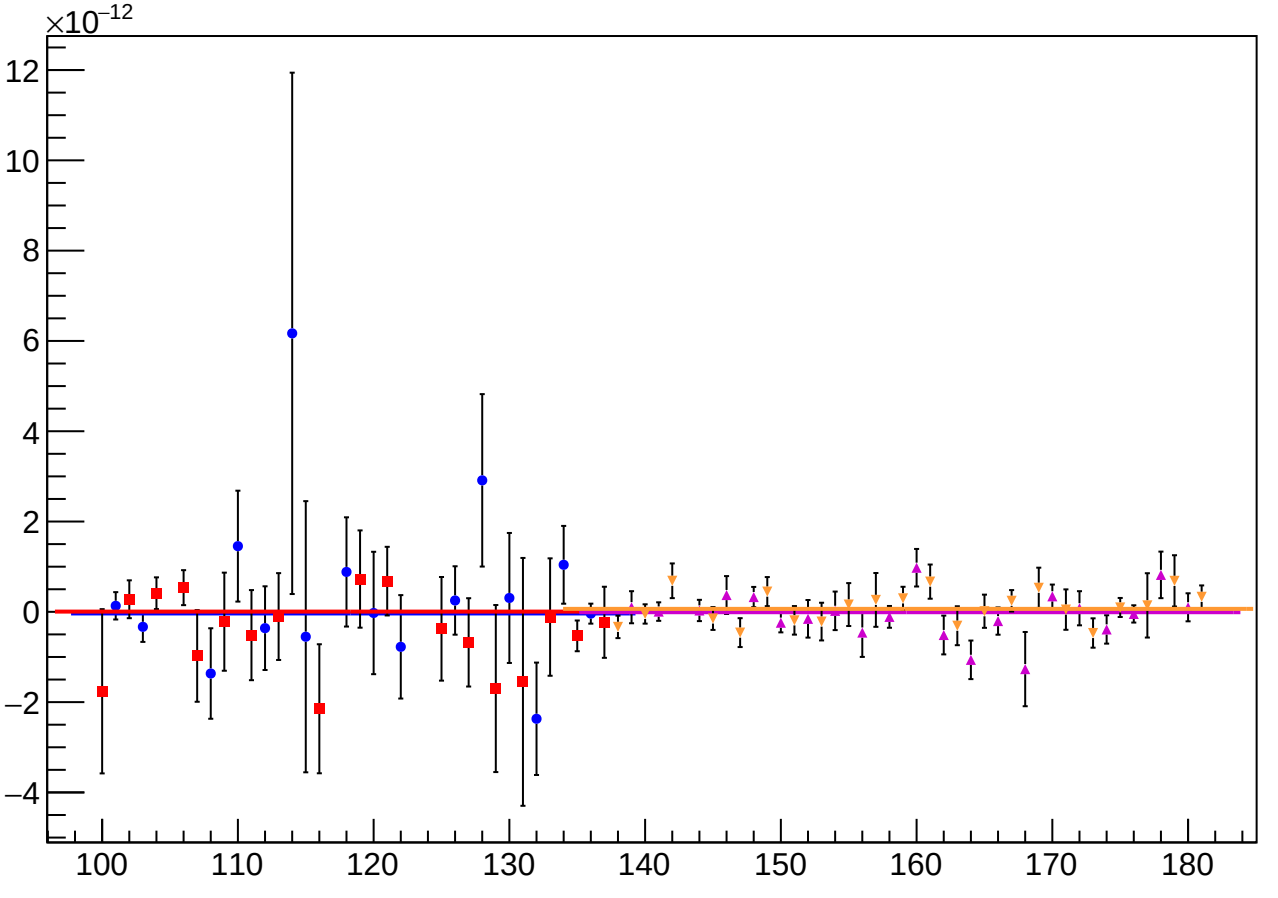
In: 5695.576+/-2071.912 $\chi^2$/NDF:26.9/36

Out: 3396.495+/-2046.984 $\chi^2$/NDF:40.4/39

All: 4532.121+/-1456.170 $\chi^2$/NDF: 67.9/76


asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected
18000
16000
14000
12000
10000
8000
6000
4000
2000
100
110
120
130
140
150
160
170
180
Right In: 8801.075+/-2.355 χ²/NDF: 394575.1/15
Left Out: 10825.572+/-1.866 χ²/NDF:938870.0/21
Right Out: 7527.803+/-2.128 χ²/NDF: 1657299.8/17
Left In: 10785.710+/-1.871 χ²/NDF:1047781.2/20
Left: 10805.692+/-1.321 χ²/NDF: 1986878.7/42
Right: 8100.150+/-1.579 χ²/NDF: 2212756.1/33
In: 10017.813+/-1.465 χ²/NDF:1877658.8/36
Out: 9392.064+/-1.403 χ²/NDF:3953394.5/39
All: 9691.456+/-1.013 χ²/NDF: 5926198.1/76

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.4/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.7/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.3/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 50.3/42

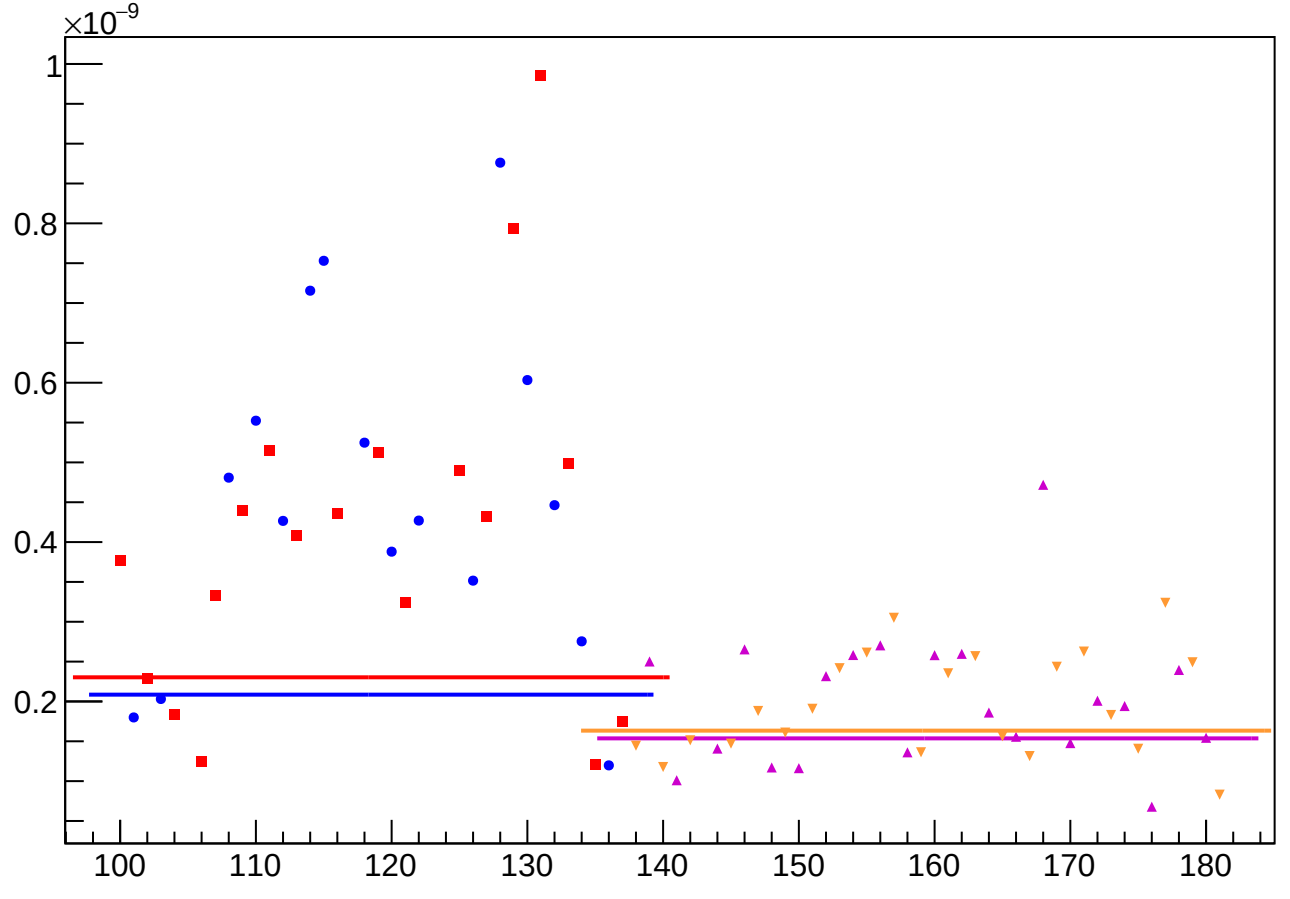
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:41.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:36.2/39

All: 0.000+/-0.000 $\chi^2$/NDF: 78.5/76

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1632322.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1177064.9/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1561654.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1917182.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3115466.9/42

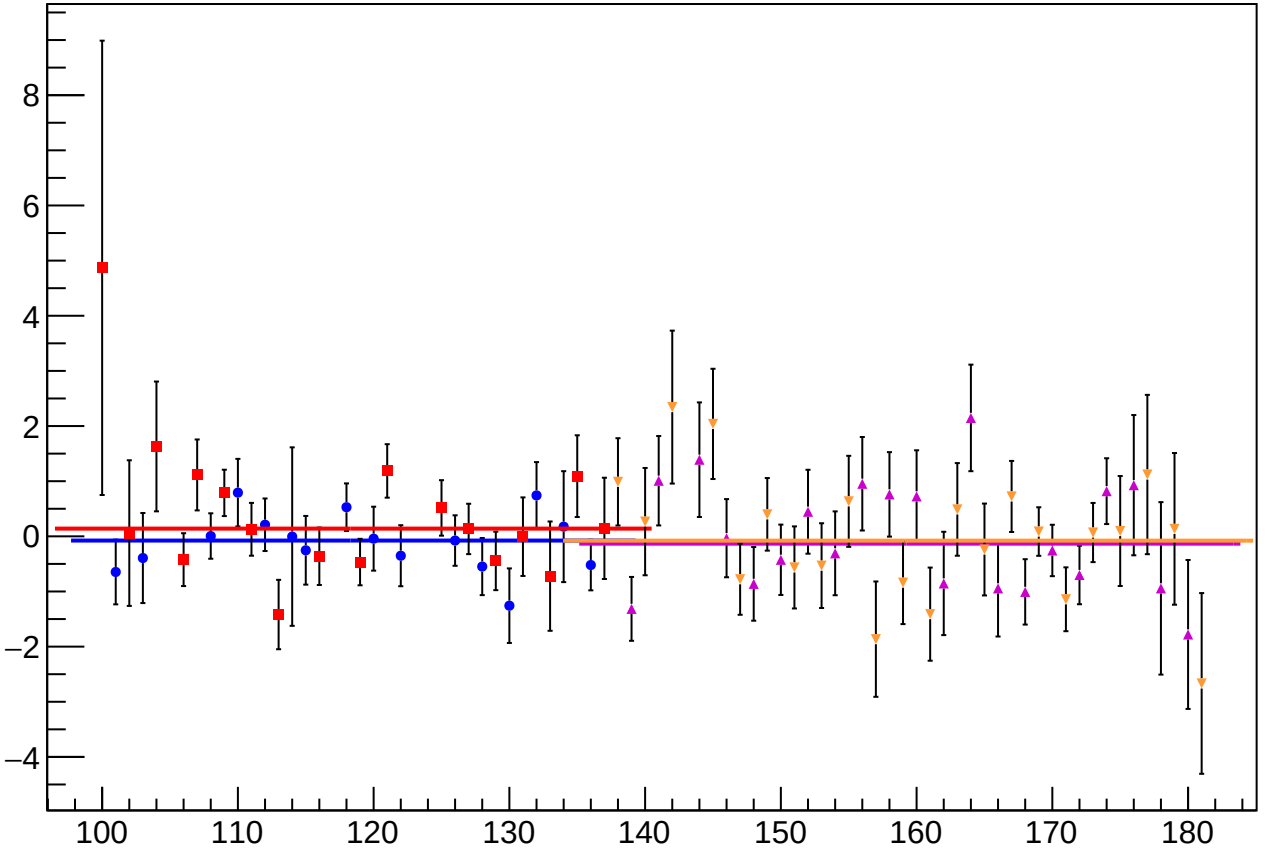
Right: 0.000+/-0.000 $\chi^2$/NDF: 3215206.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:3796214.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:3046650.4/39

All: 0.000+/-0.000 $\chi^2$/NDF: 6872862.0/76

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.076+/-0.140 $\chi^2$/NDF: 12.5/15

Left Out: -0.078+/-0.164 $\chi^2$/NDF:28.0/21

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.133+/-0.160 $\chi^2$/NDF:29.8/20

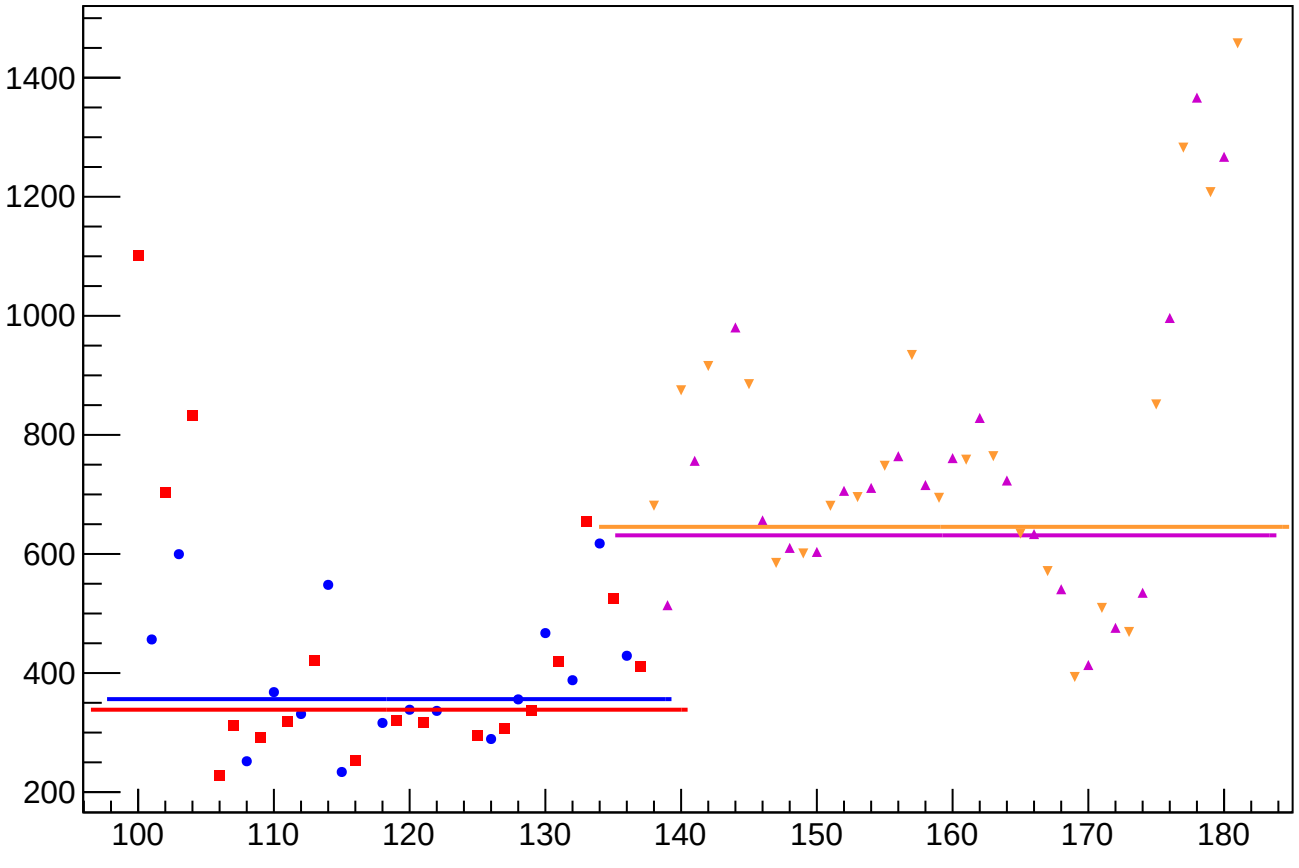
Left: -0.106+/-0.115 $\chi^2$/NDF: 57.9/42

Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.101+/-0.105 $\chi^2$/NDF:42.4/36

Out: 0.050+/-0.106 $\chi^2$/NDF:56.0/39

All: -0.026+/-0.075 $\chi^2$/NDF: 99.4/76




Right In: 356.190+/-0.099 $\chi^2$/NDF: 785107.3/15

Left Out: 645.578+/-0.116 $\chi^2$/NDF:2923167.6/21

Right Out: 338.410+/-0.098 $\chi^2$/NDF: 1203282.0/17

Left In: 631.296+/-0.113 $\chi^2$/NDF:2391172.1/20

Left: 638.269+/-0.081 $\chi^2$/NDF: 5322108.4/42

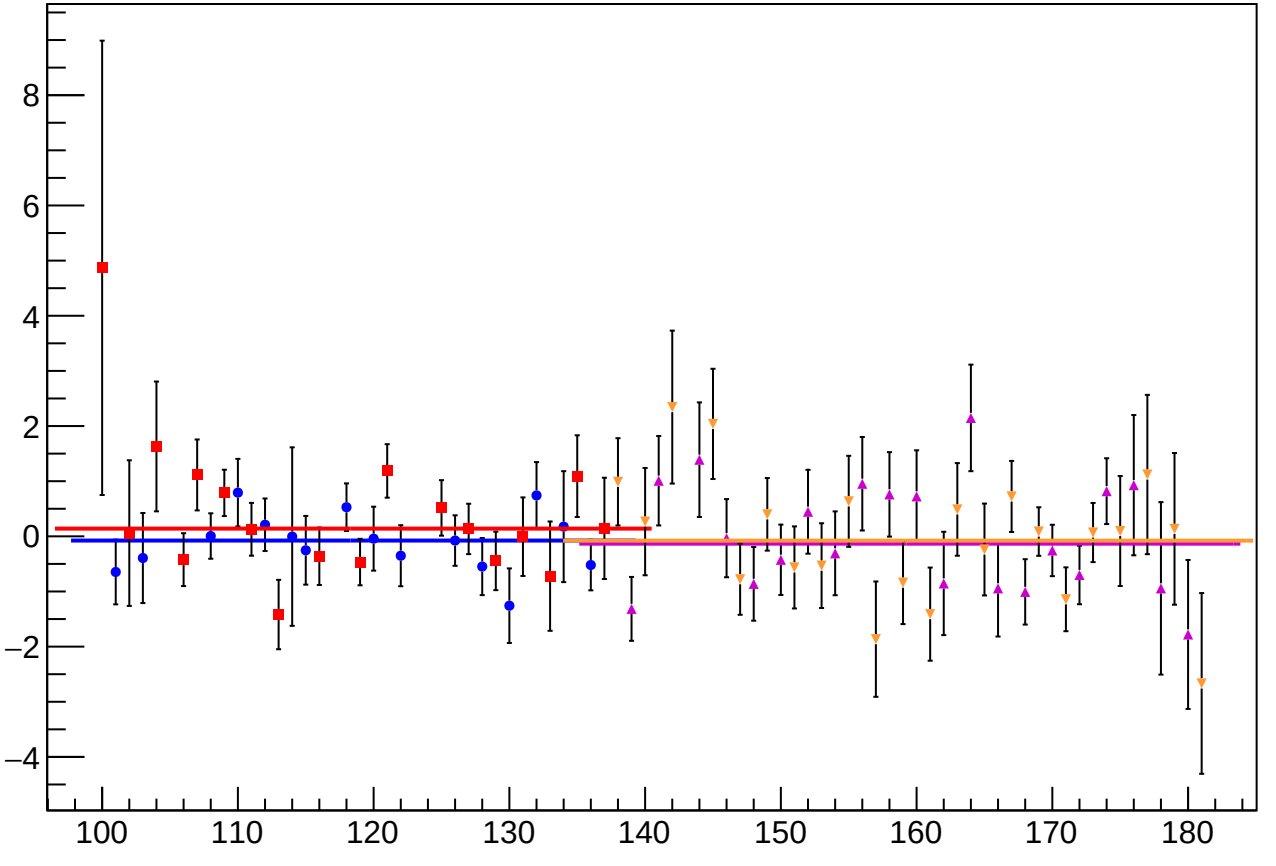
Right: 347.176+/-0.069 $\chi^2$/NDF: 2004764.4/33

In: 475.294+/-0.074 $\chi^2$/NDF:6524534.9/36

Out: 465.781+/-0.075 $\chi^2$/NDF:8236967.0/39

All: 470.547+/-0.053 $\chi^2$/NDF: 14769639.5/76

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.076+/-0.140 $\chi^2$/NDF: 12.5/15

Left Out: -0.078+/-0.164 $\chi^2$/NDF:28.0/21

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.133+/-0.160 $\chi^2$/NDF:29.8/20

Left: -0.106+/-0.115 $\chi^2$/NDF: 57.9/42

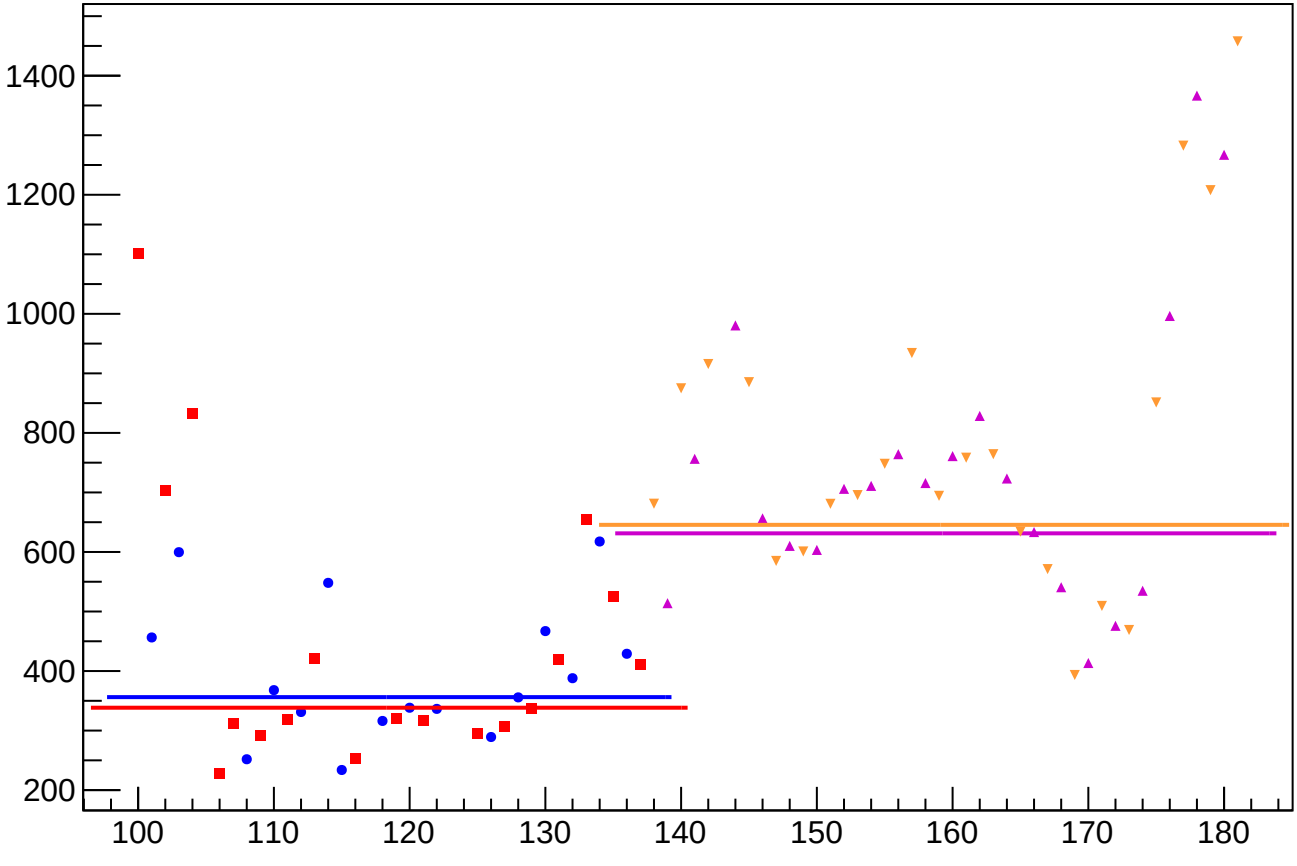
Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.101+/-0.105 $\chi^2$/NDF:42.4/36

Out: 0.050+/-0.106 $\chi^2$/NDF:56.0/39

All: -0.026+/-0.075 $\chi^2$/NDF: 99.4/76

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 356.190+/-0.099 $\chi^2$/NDF: 785107.3/15

Left Out: 645.578+/-0.116 $\chi^2$/NDF:2923167.6/21

Right Out: 338.410+/-0.098 $\chi^2$/NDF: 1203282.0/17

Left In: 631.296+/-0.113 $\chi^2$/NDF:2391172.1/20

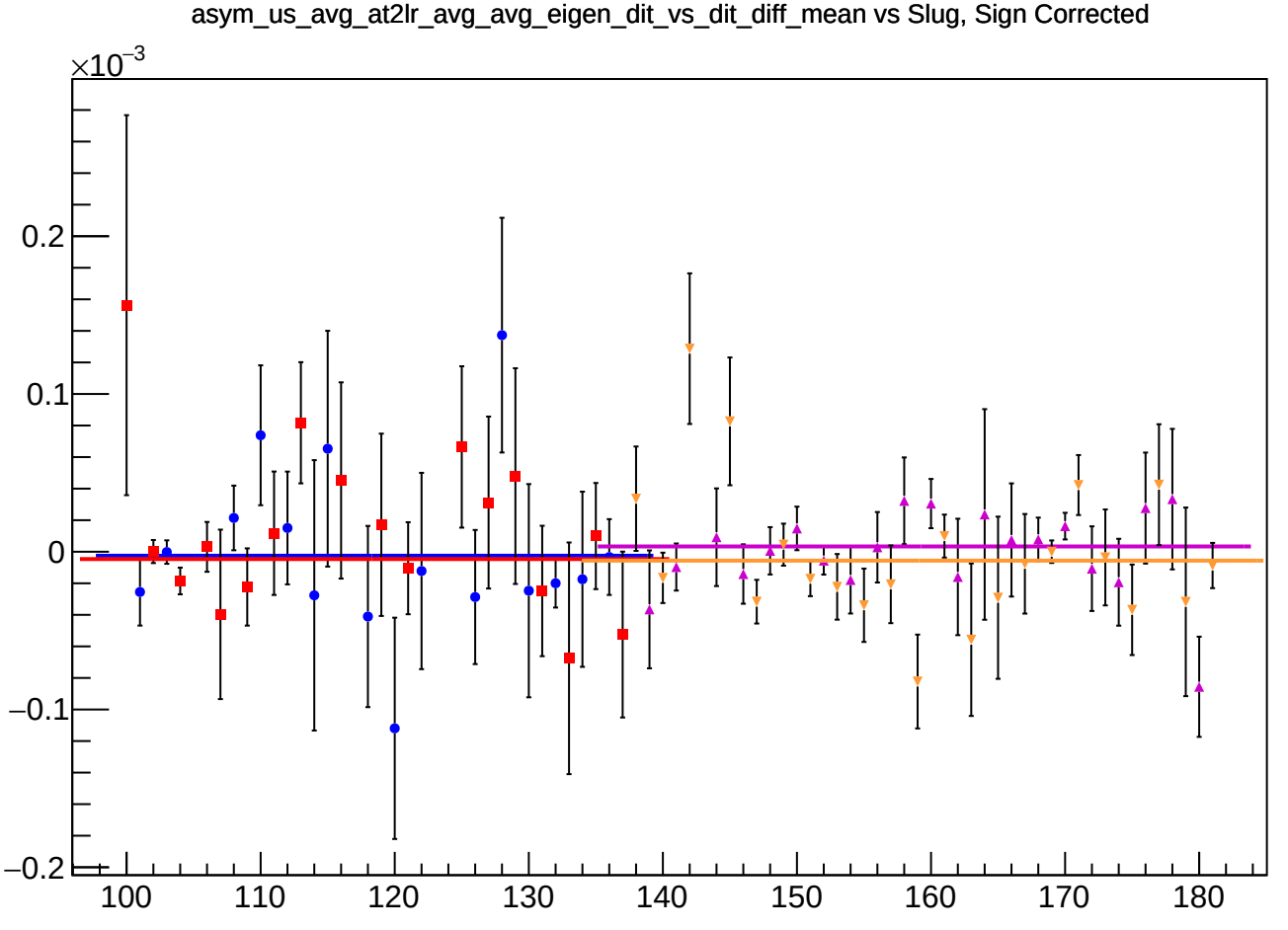
Left: 638.269+/-0.081 $\chi^2$/NDF: 5322108.4/42

Right: 347.176+/-0.069 $\chi^2$/NDF: 2004764.4/33

In: 475.294+/-0.074 $\chi^2$/NDF:6524534.9/36

Out: 465.781+/-0.075 $\chi^2$/NDF:8236967.0/39

All: 470.547+/-0.053 $\chi^2$/NDF: 14769639.5/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:41.4/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:22.2/20

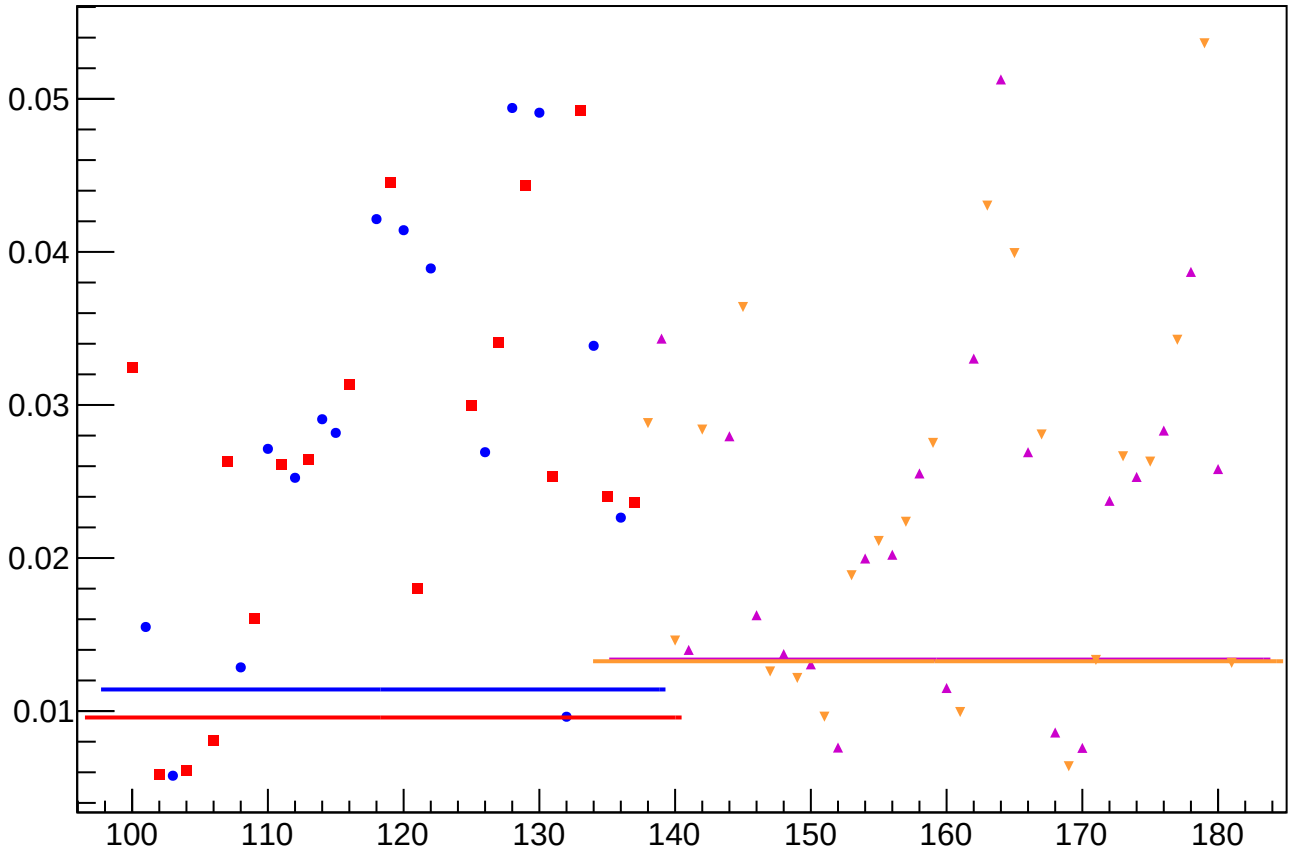
Left: -0.000+/-0.000 $\chi^2$/NDF: 66.4/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:38.0/36

Out: -0.000+/-0.000 $\chi^2$/NDF:58.6/39

All: -0.000+/-0.000 $\chi^2$/NDF: 99.0/76




Right In: 0.011+/-0.000 $\chi^2$/NDF: 5500651.2/15

Left Out: 0.013+/-0.000 $\chi^2$/NDF:8677002.8/21

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 5787700.4/17

Left In: 0.013+/-0.000 $\chi^2$/NDF:7426674.2/20

Left: 0.013+/-0.000 $\chi^2$/NDF: 16104492.4/42

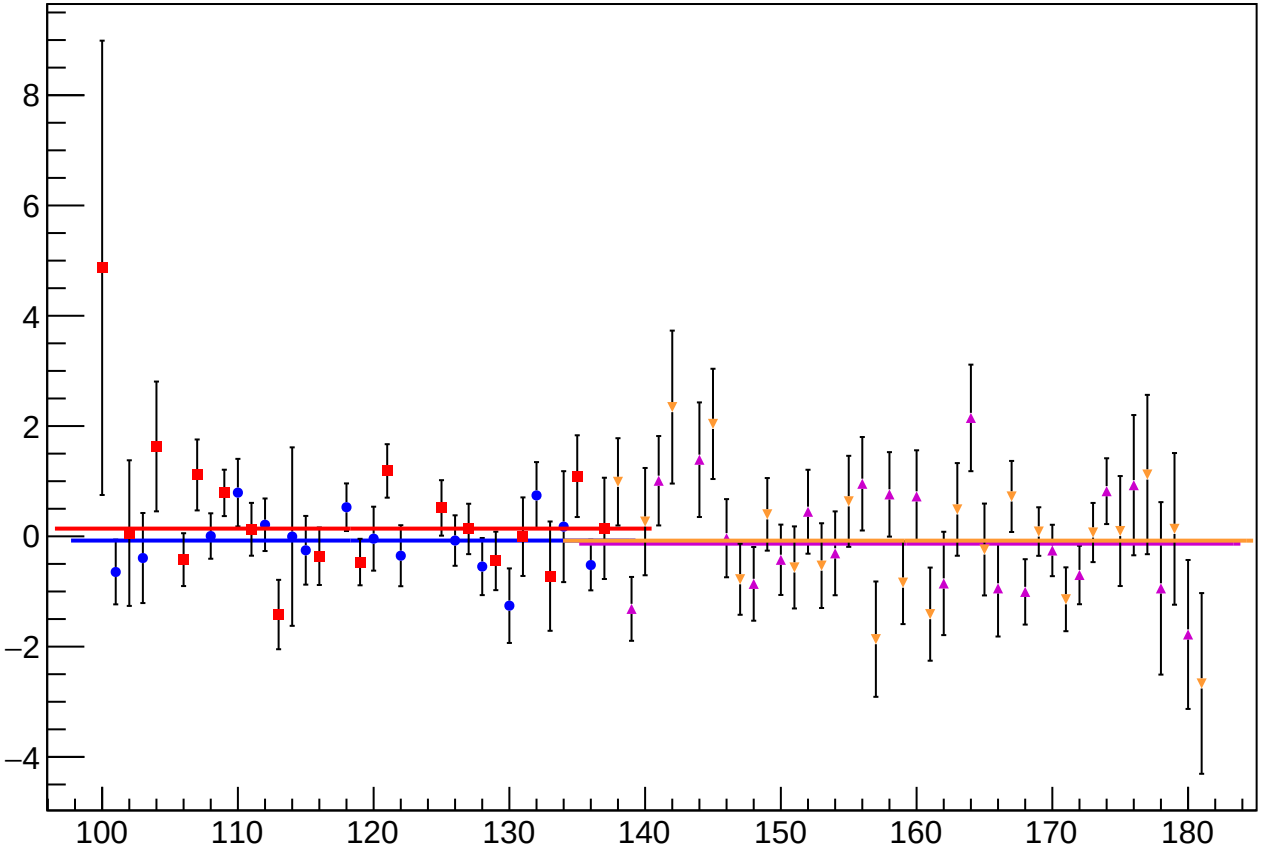
Right: 0.010+/-0.000 $\chi^2$/NDF: 11414181.9/33

In: 0.013+/-0.000 $\chi^2$/NDF:13093704.9/36

Out: 0.012+/-0.000 $\chi^2$/NDF:15201293.9/39

All: 0.012+/-0.000 $\chi^2$/NDF: 28383749.4/76

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.076+/-0.140 $\chi^2$/NDF: 12.5/15

Left Out: -0.078+/-0.164 $\chi^2$/NDF:28.0/21

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.133+/-0.160 $\chi^2$/NDF:29.8/20

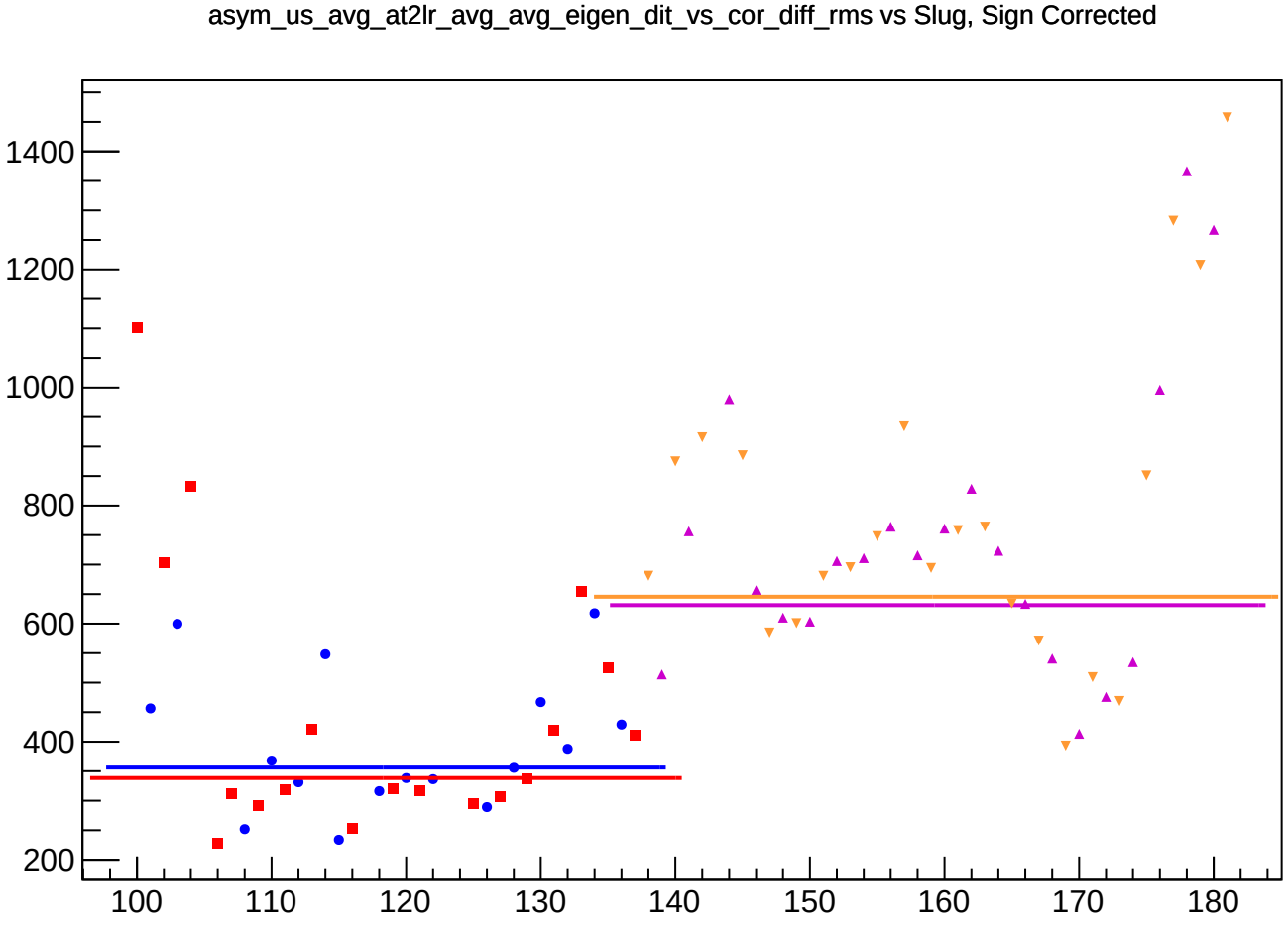
Left: -0.106+/-0.115 $\chi^2$/NDF: 57.9/42

Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.101+/-0.105 $\chi^2$/NDF:42.4/36

Out: 0.050+/-0.106 $\chi^2$/NDF:56.0/39

All: -0.026+/-0.075 $\chi^2$/NDF: 99.4/76




Right In: 356.188+/-0.099 $\chi^2$/NDF: 785072.9/15

Left Out: 645.578+/-0.116 $\chi^2$/NDF:2923380.3/21

Right Out: 338.408+/-0.098 $\chi^2$/NDF: 1203260.7/17

Left In: 631.299+/-0.113 $\chi^2$/NDF:2391322.1/20

Left: 638.270+/-0.081 $\chi^2$/NDF: 5322468.1/42

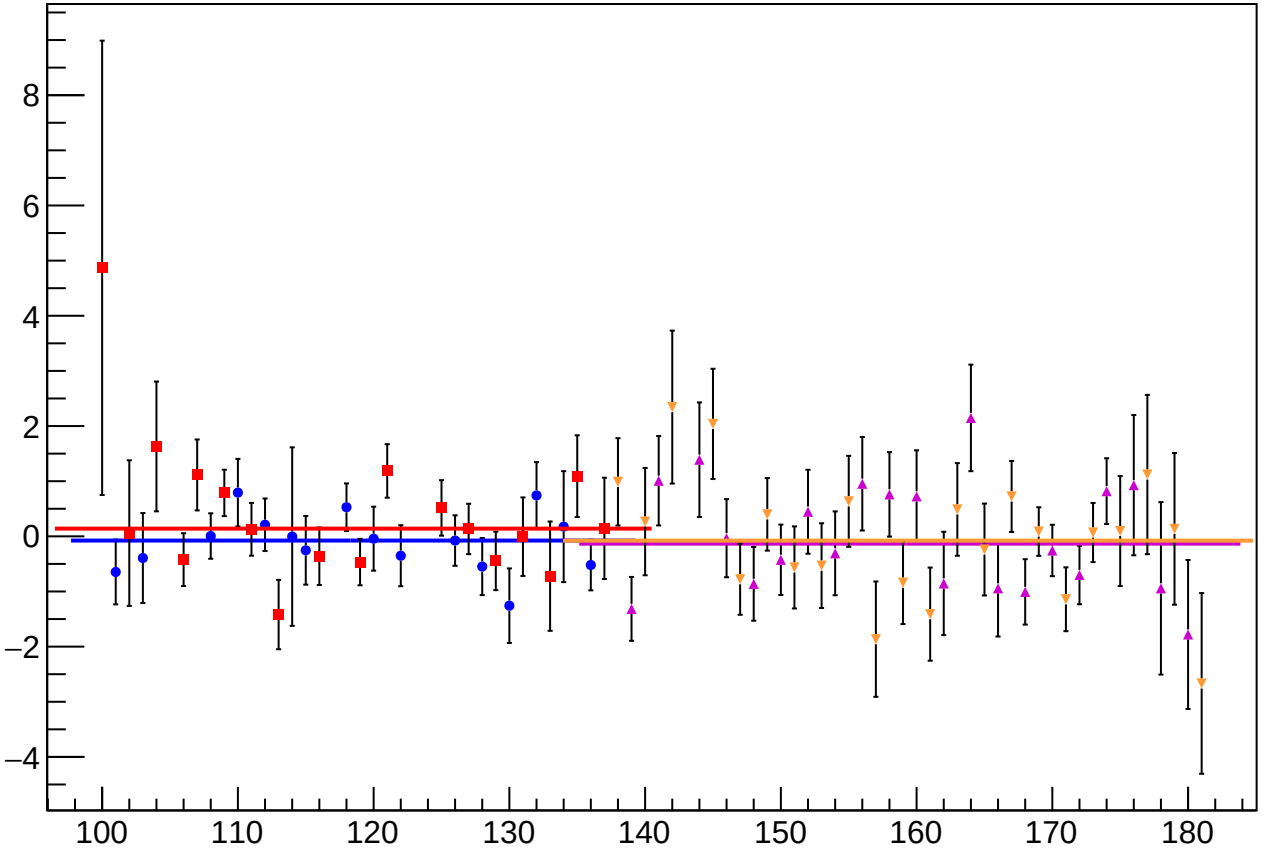
Right: 347.175+/-0.069 $\chi^2$/NDF: 2004710.0/33

In: 475.293+/-0.074 $\chi^2$/NDF:6524741.3/36

Out: 465.778+/-0.075 $\chi^2$/NDF:8237224.6/39

All: 470.545+/-0.053 $\chi^2$/NDF: 14770106.1/76

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.076+/-0.140 $\chi^2$/NDF: 12.5/15

Left Out: -0.078+/-0.164 $\chi^2$/NDF:28.0/21

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.133+/-0.160 $\chi^2$/NDF:29.8/20

Left: -0.106+/-0.115 $\chi^2$/NDF: 57.9/42

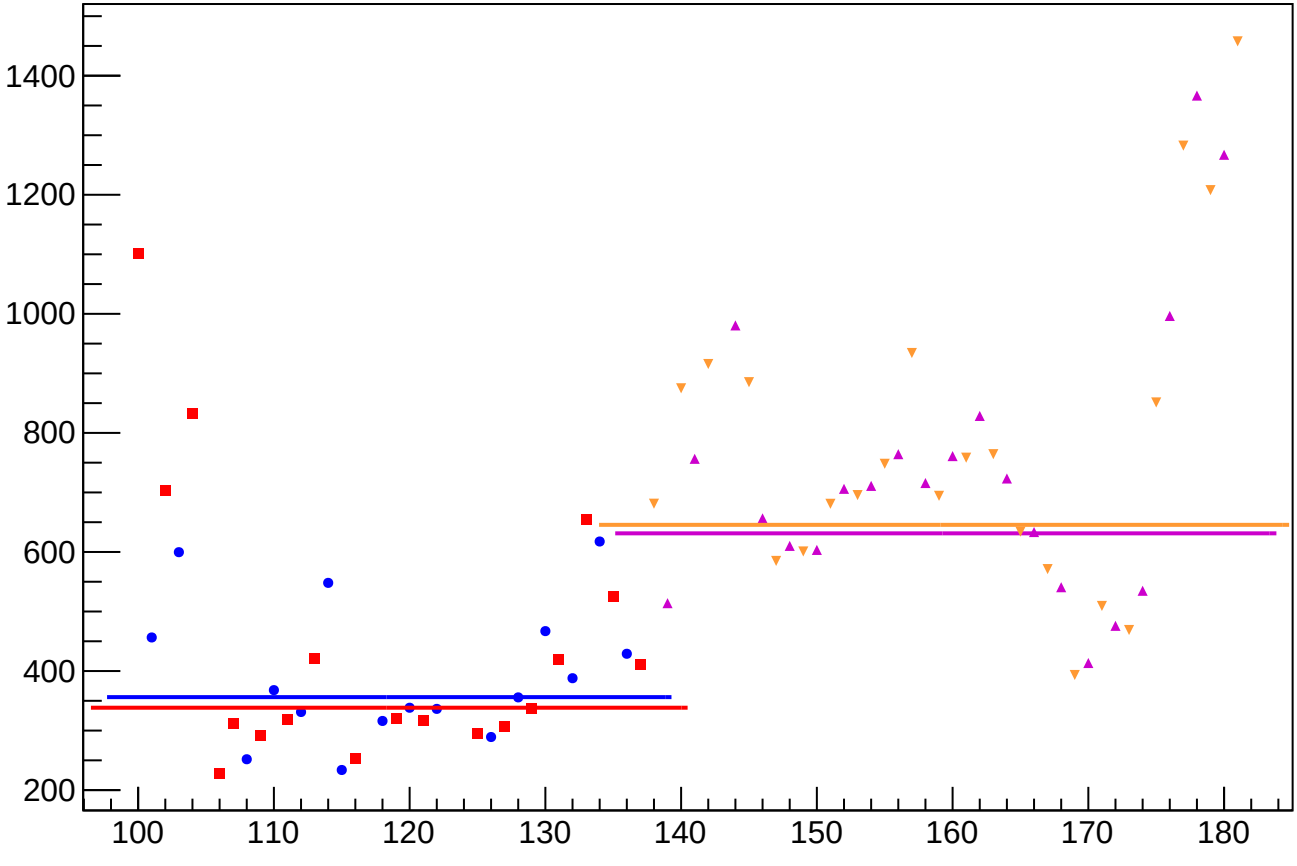
Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.101+/-0.105 $\chi^2$/NDF:42.4/36

Out: 0.050+/-0.106 $\chi^2$/NDF:56.0/39

All: -0.026+/-0.075 $\chi^2$/NDF: 99.4/76

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 356.188+/-0.099 $\chi^2$/NDF: 785072.9/15

Left Out: 645.578+/-0.116 $\chi^2$/NDF:2923380.3/21

Right Out: 338.408+/-0.098 $\chi^2$/NDF: 1203260.7/17

Left In: 631.299+/-0.113 $\chi^2$/NDF:2391322.1/20

Left: 638.270+/-0.081 $\chi^2$/NDF: 5322468.1/42

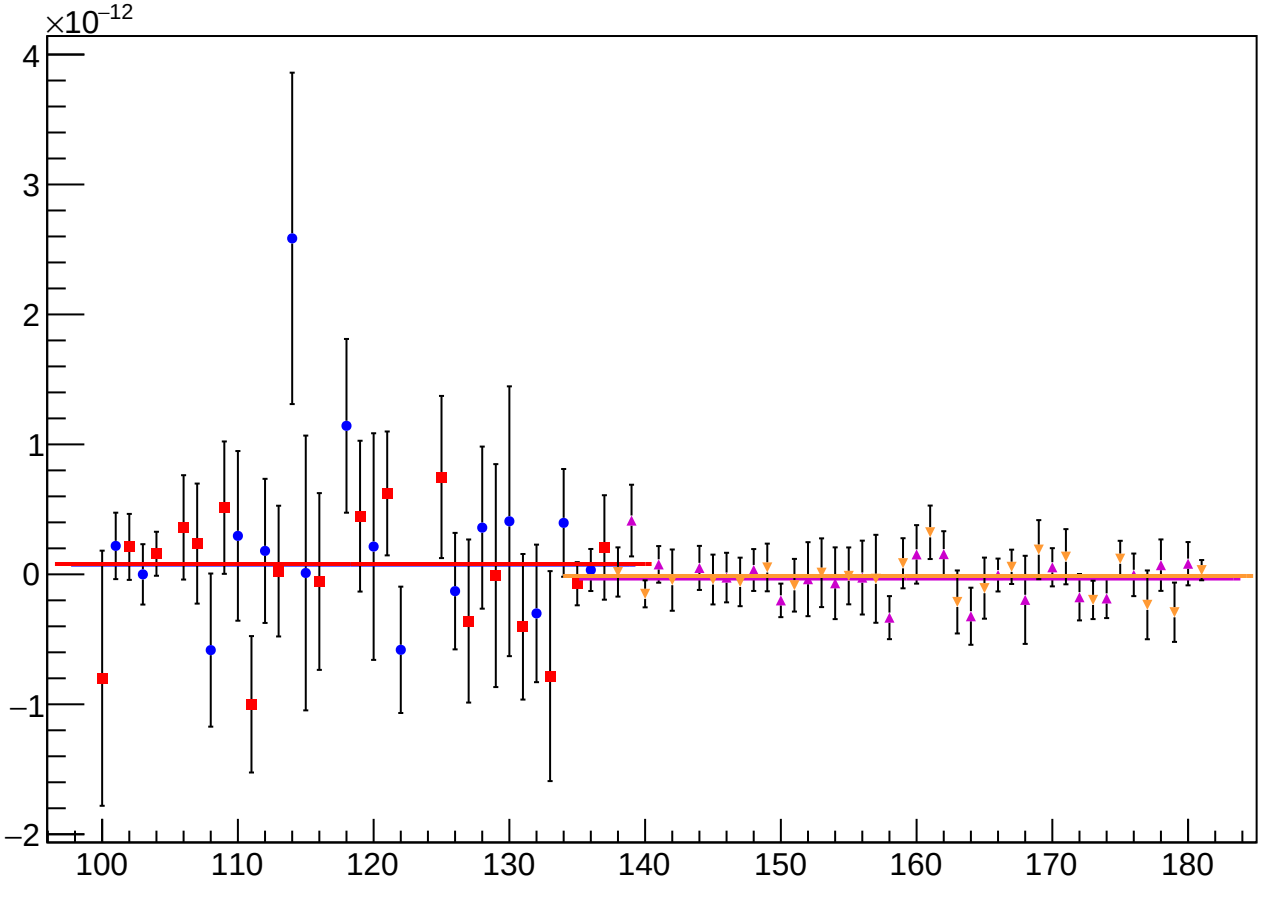
Right: 347.175+/-0.069 $\chi^2$/NDF: 2004710.0/33

In: 475.293+/-0.074 $\chi^2$/NDF:6524741.3/36

Out: 465.778+/-0.075 $\chi^2$/NDF:8237224.6/39

All: 470.545+/-0.053 $\chi^2$/NDF: 14770106.1/76

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:12.5/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.1/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.3/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 27.9/42

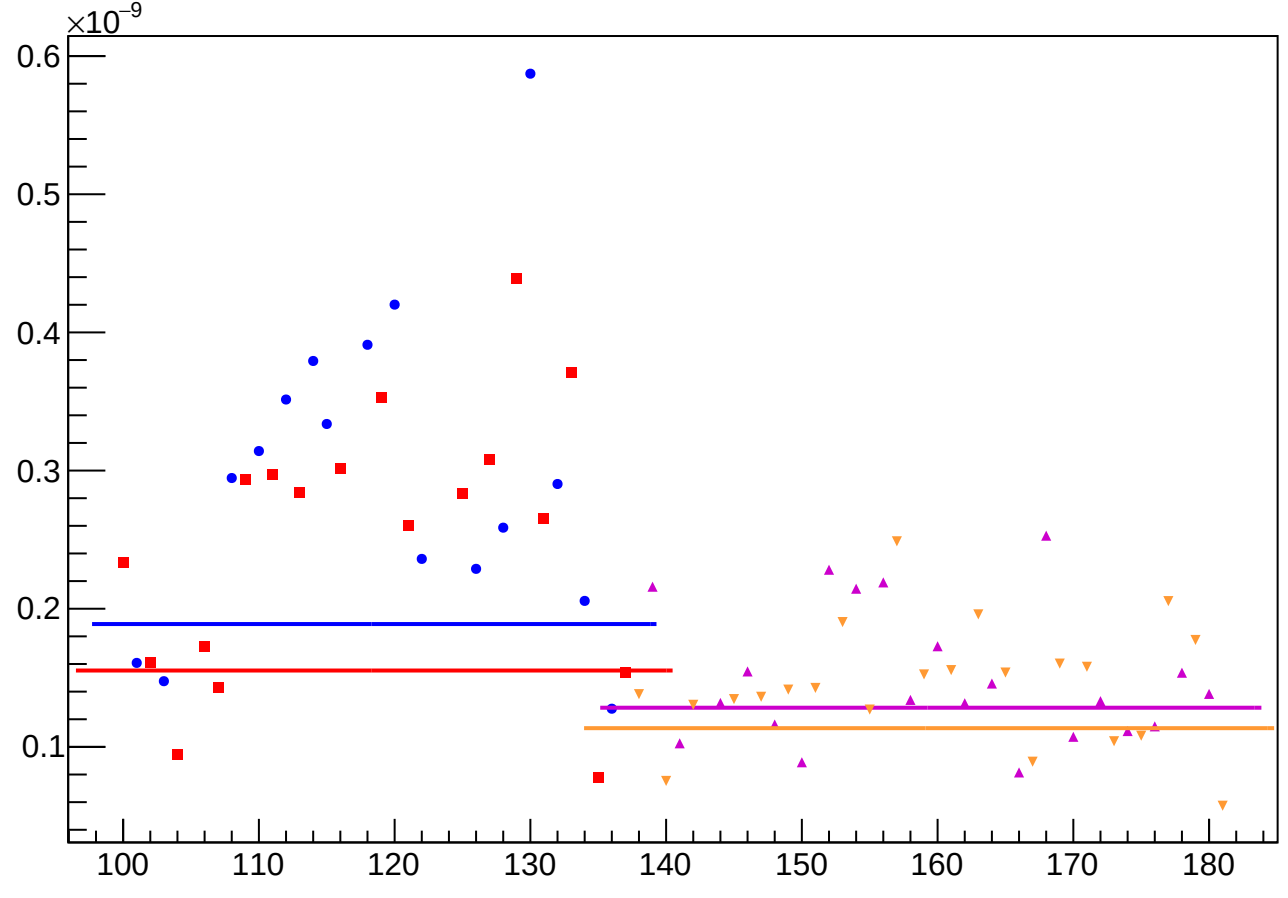
Right: 0.000+/-0.000 $\chi^2$/NDF: 24.9/33

In: -0.000+/-0.000 $\chi^2$/NDF:28.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:26.6/39

All: -0.000+/-0.000 $\chi^2$/NDF: 54.8/76

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1520620.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3094658.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2200687.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1908837.7/20

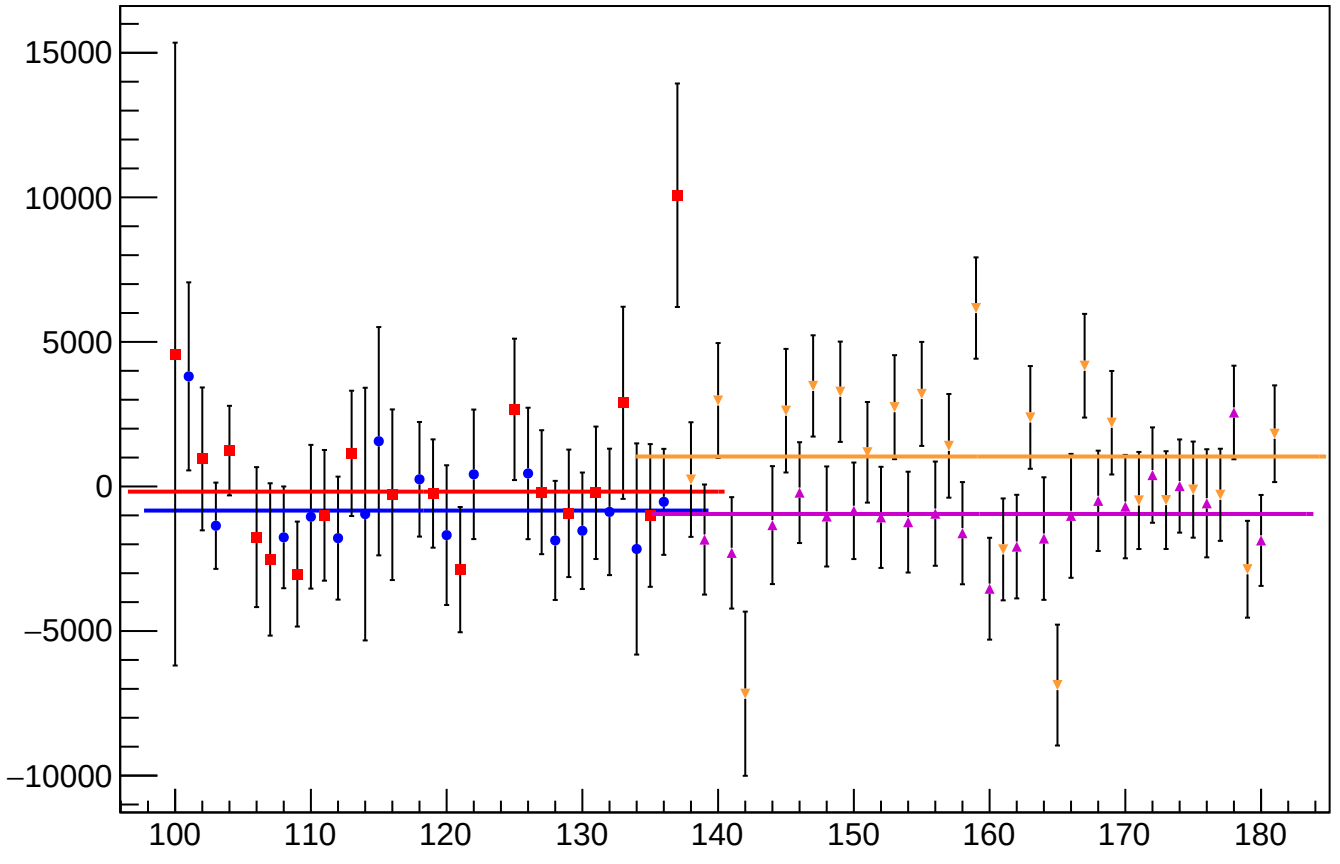
Left: 0.000+/-0.000 $\chi^2$/NDF: 5159887.7/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 3857679.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:4108871.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5700525.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 10050399.3/76




Right In: -833.479+/-554.833 $\chi^2$/NDF: 4.6/15

Left Out: 1036.570+/-384.633 $\chi^2$/NDF:54.7/21

Right Out: -178.292+/-547.824 $\chi^2$/NDF: 16.5/17

Left In: -951.238+/-388.225 $\chi^2$/NDF:10.0/20

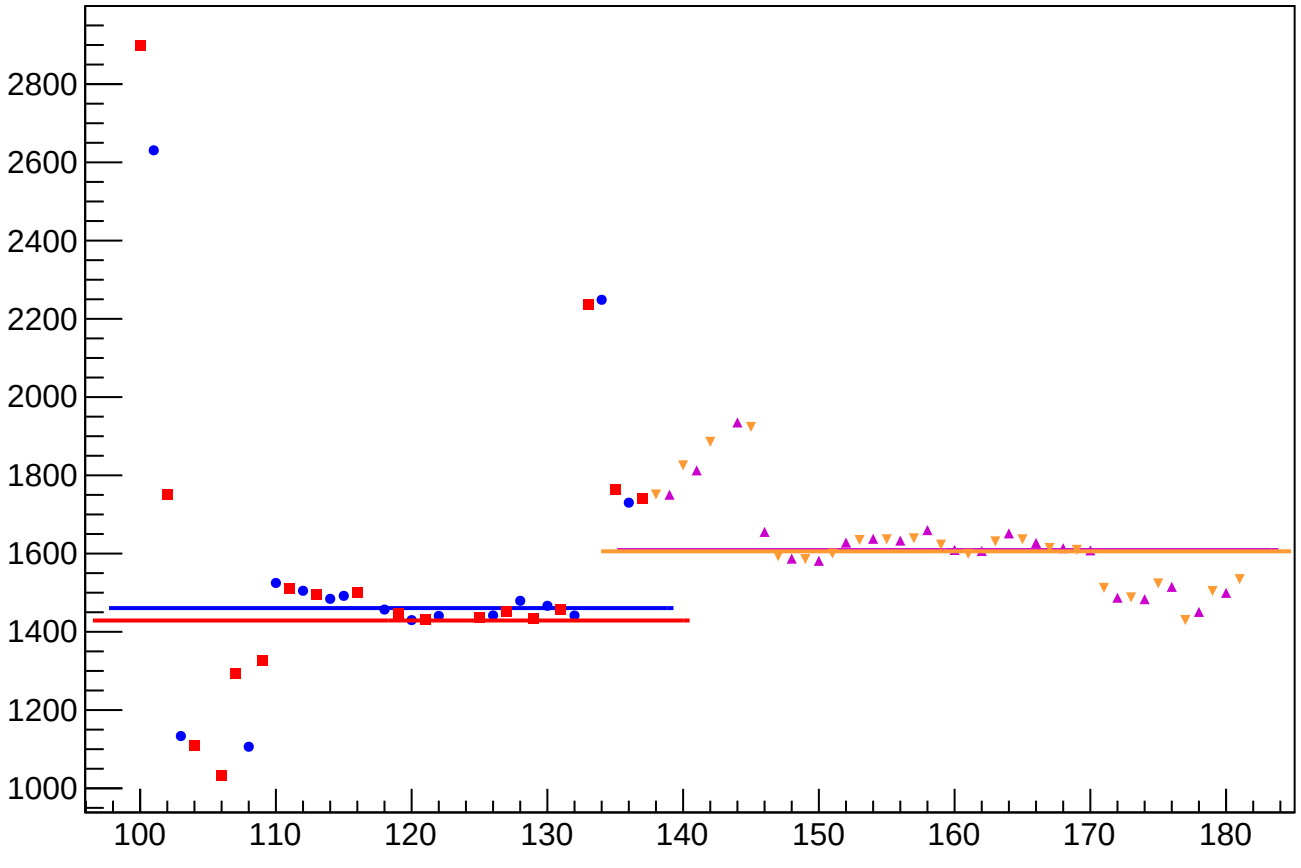
Left: 51.905+/-273.238 $\chi^2$/NDF: 78.0/42

Right: -501.721+/-389.824 $\chi^2$/NDF: 21.8/33

In: -912.533+/-318.089 $\chi^2$/NDF:14.6/36

Out: 635.436+/-314.791 $\chi^2$/NDF:74.5/39

All: -130.483+/-223.748 $\chi^2$/NDF: 101.1/76




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.1/15

Left Out: 1605.796+/-0.272 $\chi^2$/NDF:158245.0/21

Right Out: 1428.940+/-0.385 $\chi^2$/NDF: 411275.6/17

Left In: 1608.938+/-0.275 $\chi^2$/NDF:147453.8/20

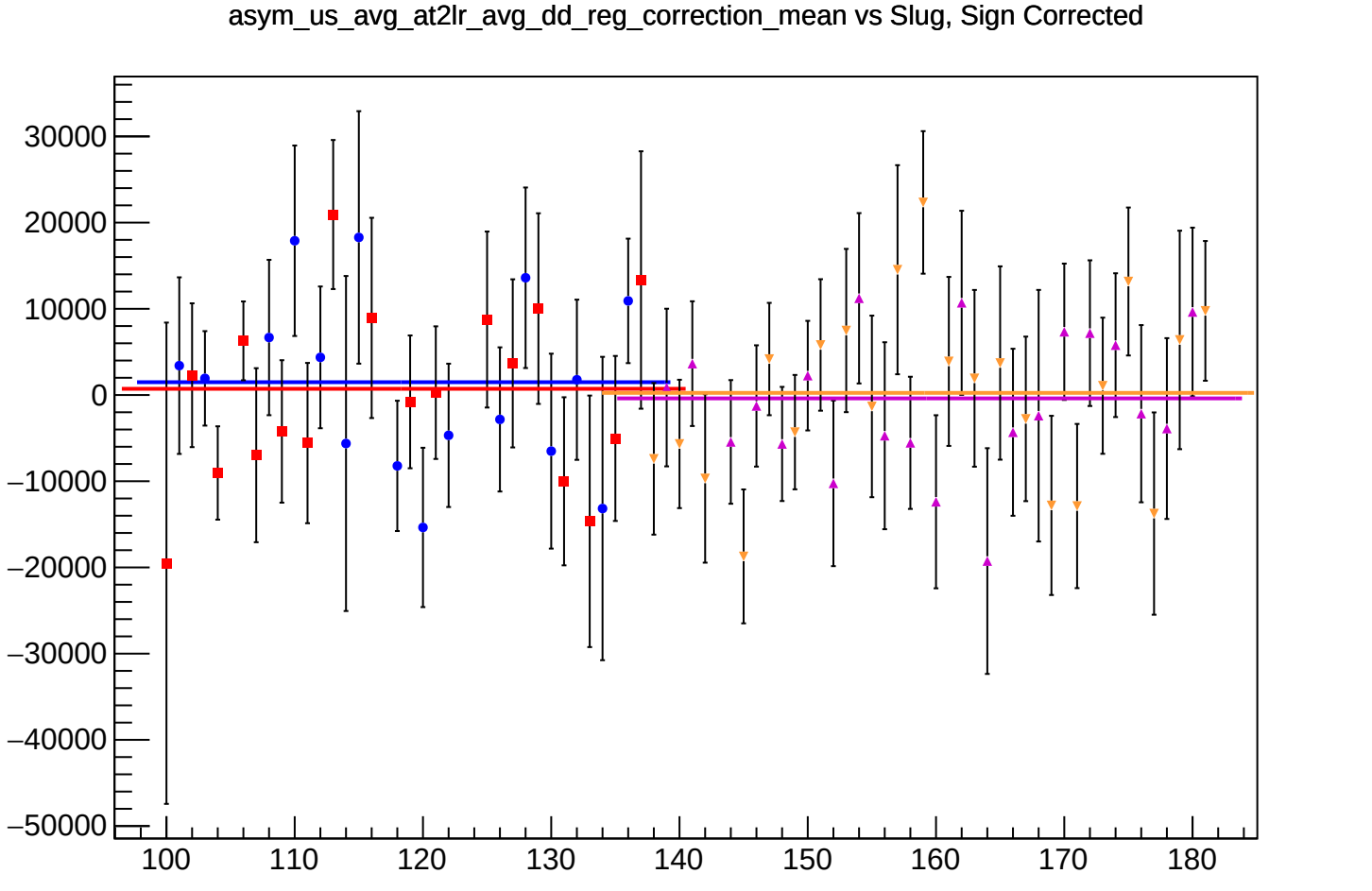
Left: 1607.352+/-0.193 $\chi^2$/NDF: 305765.0/42

Right: 1444.478+/-0.275 $\chi^2$/NDF: 990344.6/33

In: 1560.200+/-0.225 $\chi^2$/NDF:819091.8/36

Out: 1546.819+/-0.222 $\chi^2$/NDF:710527.2/39

All: 1553.423+/-0.158 $\chi^2$/NDF: 1531411.3/76




Right In: 1487.438+/-2268.028 $\chi^2$/NDF: 14.2/15

Left Out: 249.182+/-1887.994 $\chi^2$/NDF:28.0/21

Right Out: 720.166+/-2011.559 $\chi^2$/NDF: 17.5/17

Left In: -391.783+/-1896.078 $\chi^2$/NDF:13.0/20

Left: -69.931+/-1337.862 $\chi^2$/NDF: 41.1/42

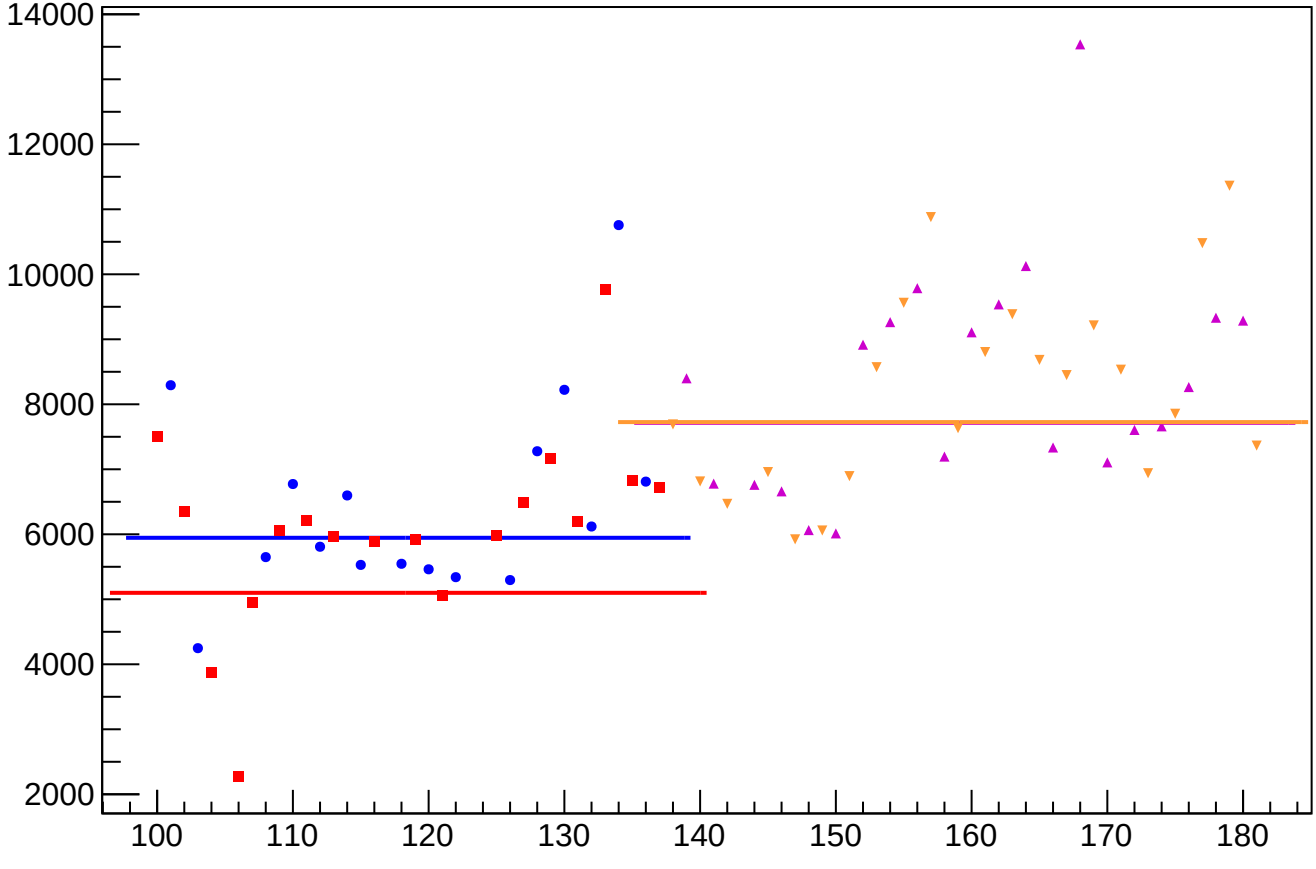
Right: 1057.985+/-1504.928 $\chi^2$/NDF: 31.8/33

In: 381.298+/-1454.696 $\chi^2$/NDF:27.5/36

Out: 469.765+/-1376.625 $\chi^2$/NDF:45.6/39

All: 427.969+/-999.882 $\chi^2$/NDF: 73.1/76

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 5946.080+/-1.604 $\chi^2$/NDF: 641131.4/15

Left Out: 7725.994+/-1.335 $\chi^2$/NDF:1055349.3/21

Right Out: 5099.375+/-1.422 $\chi^2$/NDF: 1480367.2/17

Left In: 7714.561+/-1.341 $\chi^2$/NDF:1158556.9/20

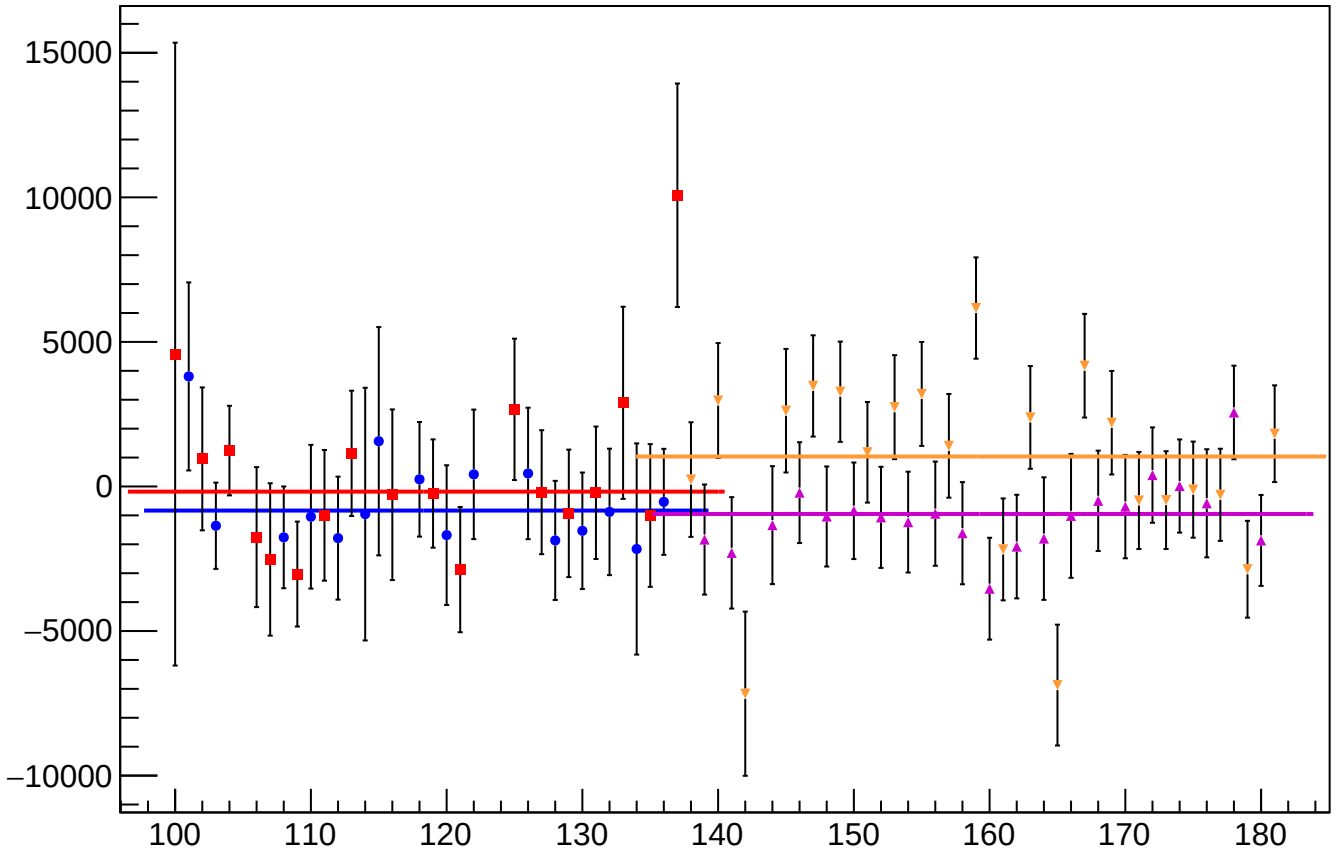
Left: 7720.302+/-0.946 $\chi^2$/NDF: 2213942.7/42

Right: 5472.167+/-1.064 $\chi^2$/NDF: 2277512.7/33

In: 6987.036+/-1.029 $\chi^2$/NDF:2515446.4/36

Out: 6495.830+/-0.973 $\chi^2$/NDF:4348679.7/39

All: 6727.899+/-0.707 $\chi^2$/NDF: 6984429.7/76




Right In: -833.542+/-554.833 $\chi^2$/NDF: 4.6/15

Left Out: 1036.694+/-384.633 $\chi^2$/NDF:54.7/21

Right Out: -178.133+/-547.824 $\chi^2$/NDF: 16.5/17

Left In: -951.117+/-388.225 $\chi^2$/NDF:10.0/20

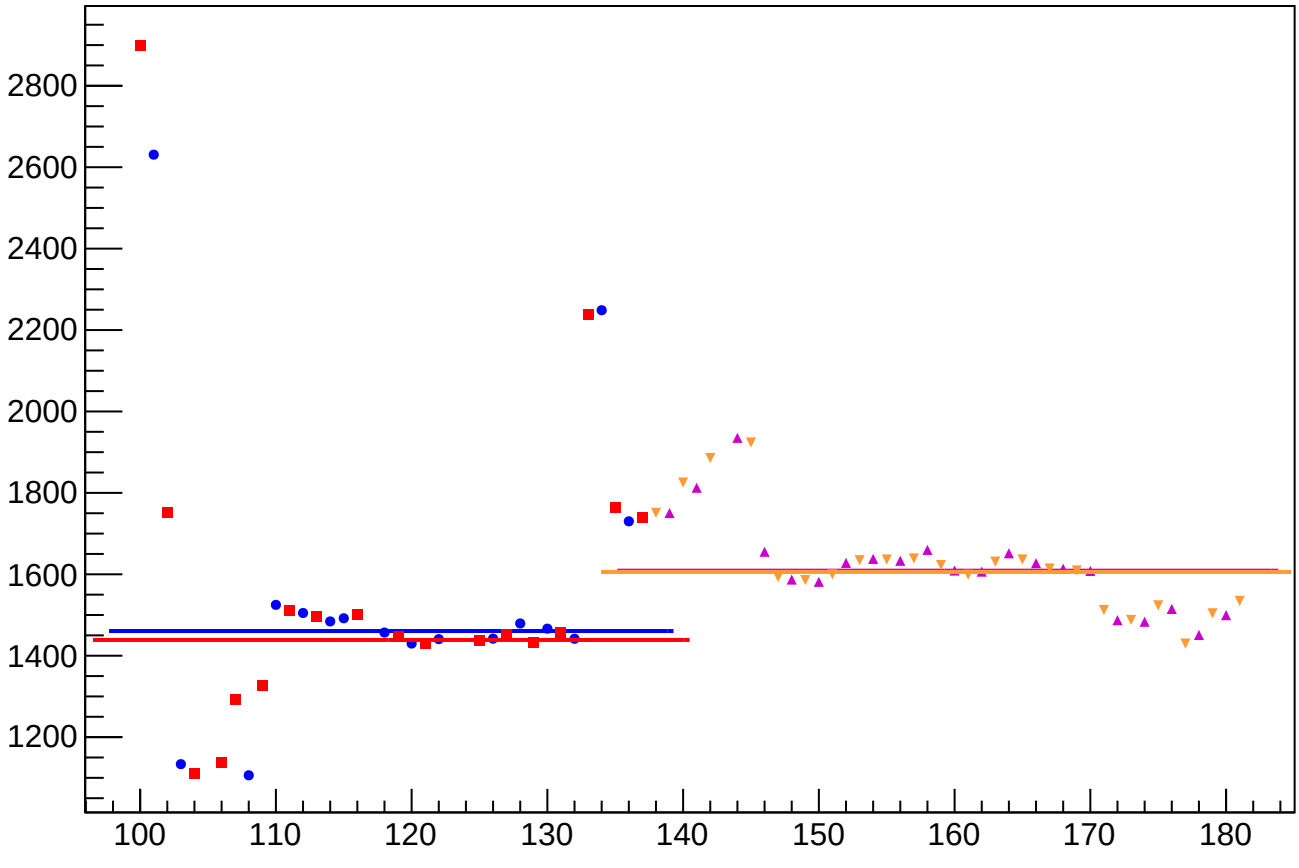
Left: 52.028+/-273.238 $\chi^2$/NDF: 78.0/42

Right: -501.671+/-389.824 $\chi^2$/NDF: 21.8/33

In: -912.472+/-318.089 $\chi^2$/NDF:14.6/36

Out: 635.571+/-314.791 $\chi^2$/NDF:74.5/39

All: -130.384+/-223.748 $\chi^2$/NDF: 101.1/76




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.3/15

Left Out: 1605.796+/-0.272 $\chi^2$/NDF:158245.0/21

Right Out: 1438.764+/-0.386 $\chi^2$/NDF: 373375.6/17

Left In: 1608.938+/-0.275 $\chi^2$/NDF:147453.8/20

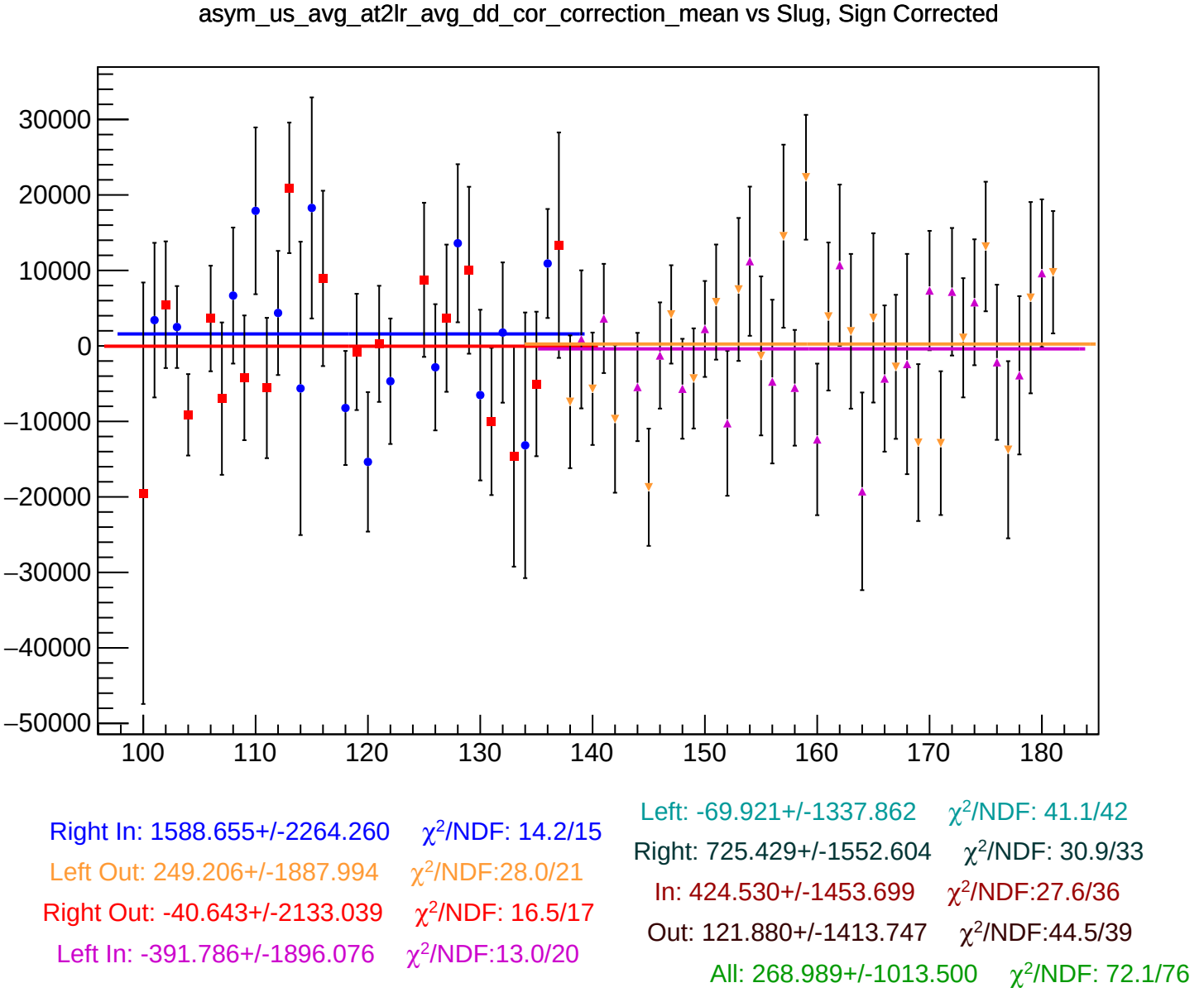
Left: 1607.352+/-0.193 $\chi^2$/NDF: 305764.9/42

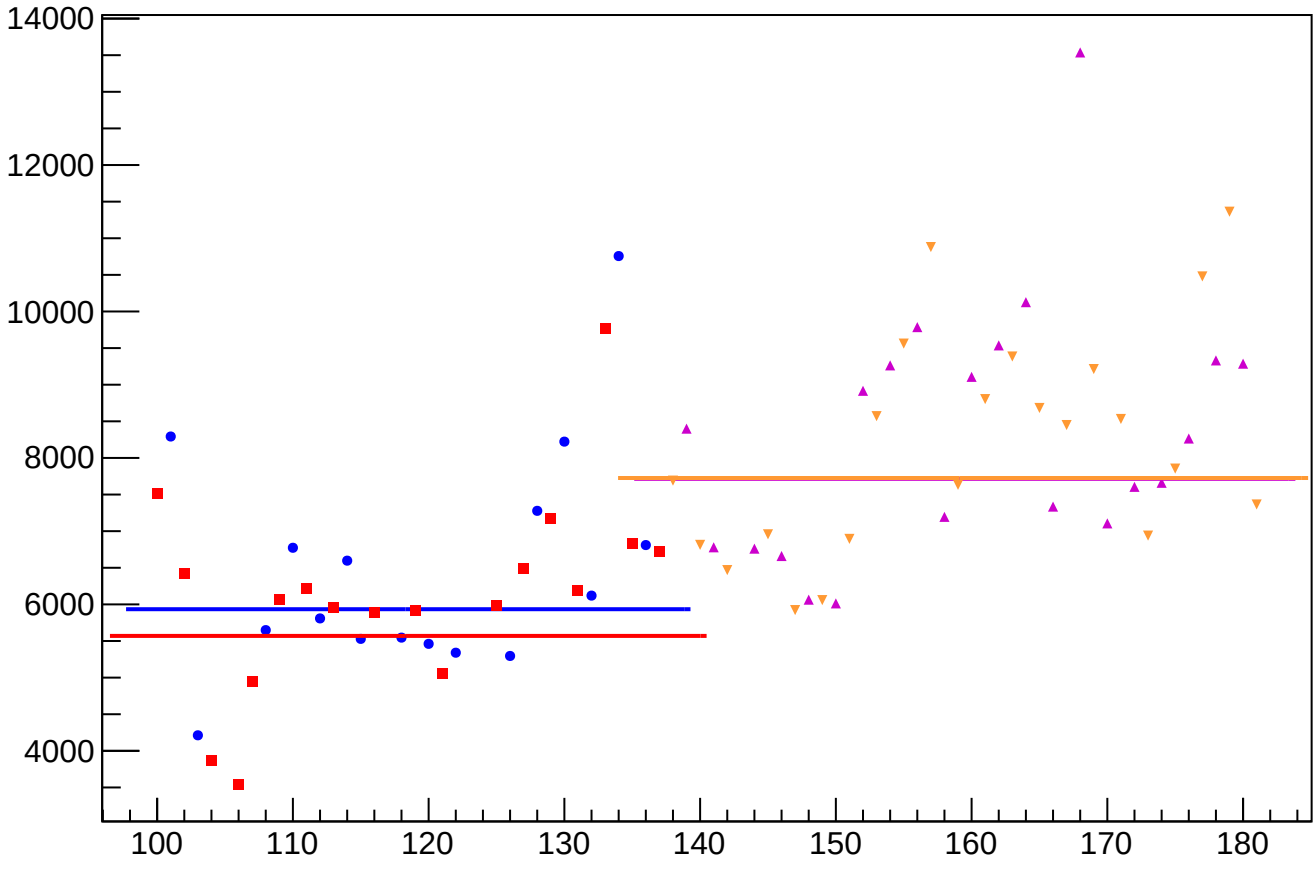
Right: 1449.544+/-0.275 $\chi^2$/NDF: 950691.7/33

In: 1560.200+/-0.225 $\chi^2$/NDF:819092.2/36

Out: 1550.475+/-0.222 $\chi^2$/NDF:656540.4/39

All: 1555.283+/-0.158 $\chi^2$/NDF: 1476577.8/76


asym_us_avg_at2lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
100
110
120
130
140
150
160
170
180
Right In: 1588.655+/-2264.260 χ²/NDF: 14.2/15
Left Out: 249.206+/-1887.994 χ²/NDF:28.0/21
Right Out: -40.643+/-2133.039 χ²/NDF: 16.5/17
Left In: -391.786+/-1896.076 χ²/NDF:13.0/20
Left: -69.921+/-1337.862 χ²/NDF: 41.1/42
Right: 725.429+/-1552.604 χ²/NDF: 30.9/33
In: 424.530+/-1453.699 χ²/NDF:27.6/36
Out: 121.880+/-1413.747 χ²/NDF:44.5/39
All: 268.989+/-1013.500 χ²/NDF: 72.1/76




Right In: 5934.209+/-1.601 $\chi^2$/NDF: 653082.9/15

Left Out: 7725.994+/-1.335 $\chi^2$/NDF:1055350.1/21

Right Out: 5569.606+/-1.508 $\chi^2$/NDF: 724048.8/17

Left In: 7714.554+/-1.341 $\chi^2$/NDF:1158559.7/20

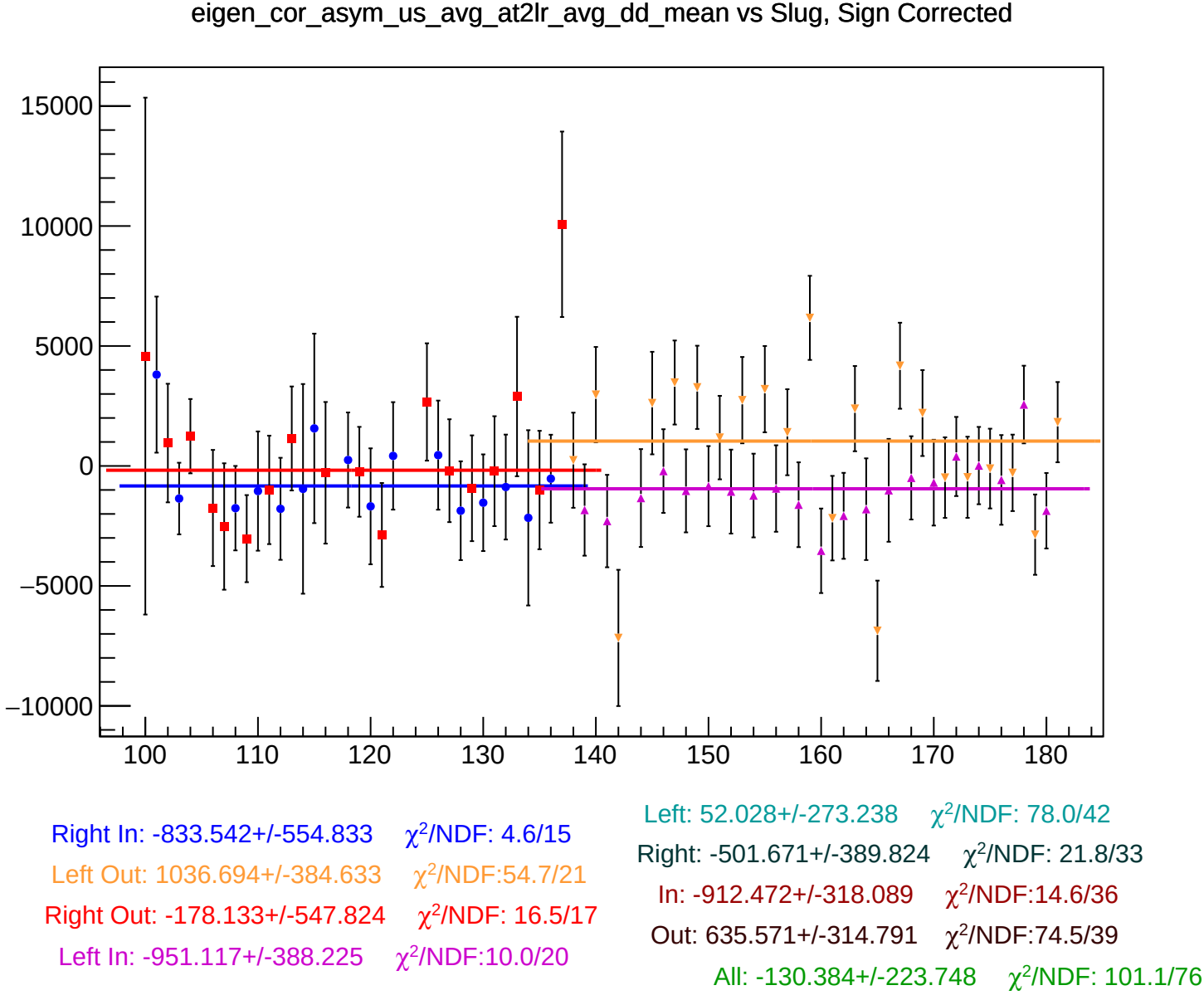
Left: 7720.299+/-0.946 $\chi^2$/NDF: 2213946.4/42

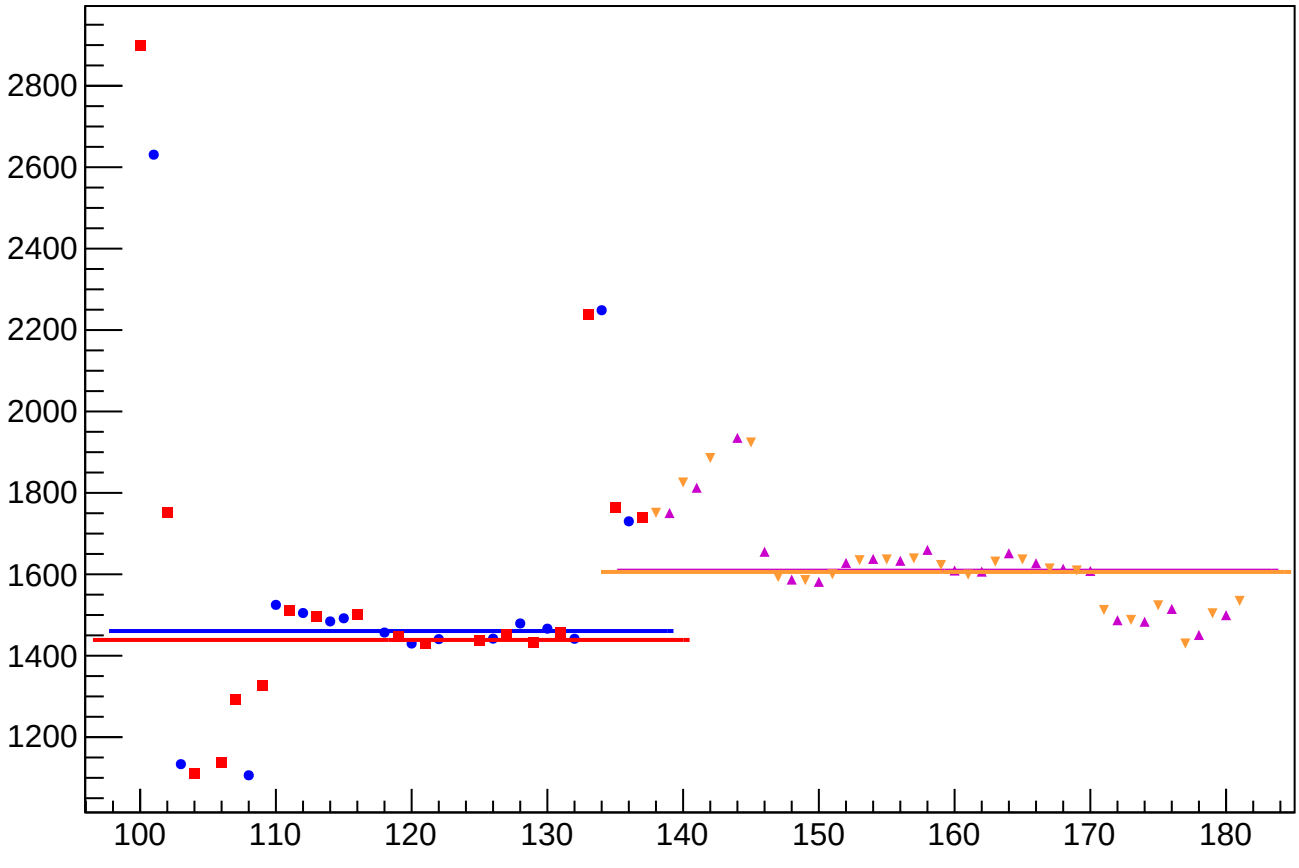
Right: 5741.037+/-1.098 $\chi^2$/NDF: 1404606.9/33

In: 6980.715+/-1.028 $\chi^2$/NDF:2538456.8/36

Out: 6778.726+/-1.000 $\chi^2$/NDF:2925515.3/39

All: 6876.907+/-0.717 $\chi^2$/NDF: 5483816.7/76


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
160
170
180
Right In: -833.542+/-554.833 χ²/NDF: 4.6/15
Left Out: 1036.694+/-384.633 χ²/NDF:54.7/21
Right Out: -178.133+/-547.824 χ²/NDF: 16.5/17
Left In: -951.117+/-388.225 χ²/NDF:10.0/20
Left: 52.028+/-273.238 χ²/NDF: 78.0/42
Right: -501.671+/-389.824 χ²/NDF: 21.8/33
In: -912.472+/-318.089 χ²/NDF:14.6/36
Out: 635.571+/-314.791 χ²/NDF:74.5/39
All: -130.384+/-223.748 χ²/NDF: 101.1/76




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.3/15

Left Out: 1605.796+/-0.272 $\chi^2$/NDF:158245.0/21

Right Out: 1438.764+/-0.386 $\chi^2$/NDF: 373375.6/17

Left In: 1608.938+/-0.275 $\chi^2$/NDF:147453.8/20

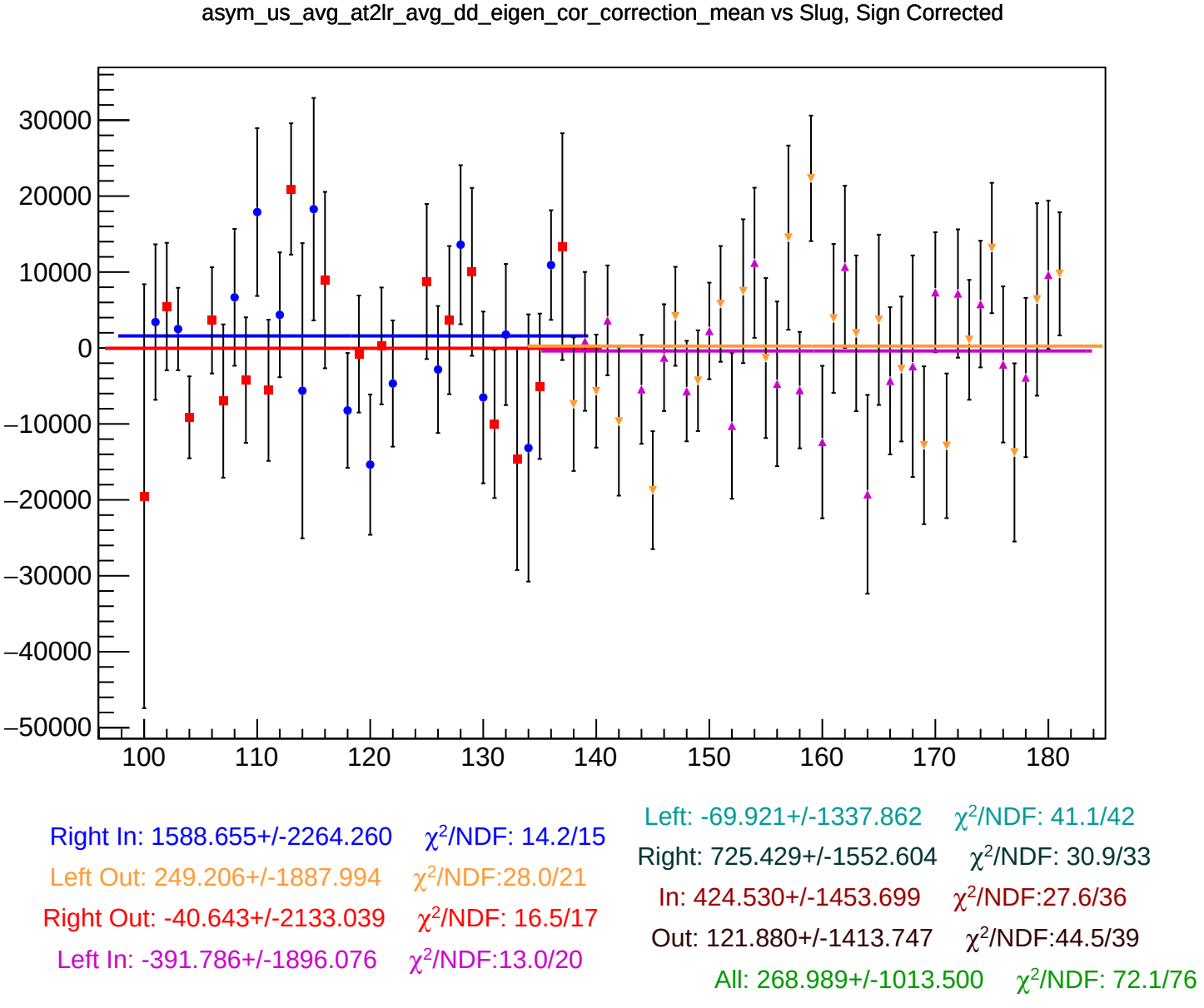
Left: 1607.352+/-0.193 $\chi^2$/NDF: 305764.9/42

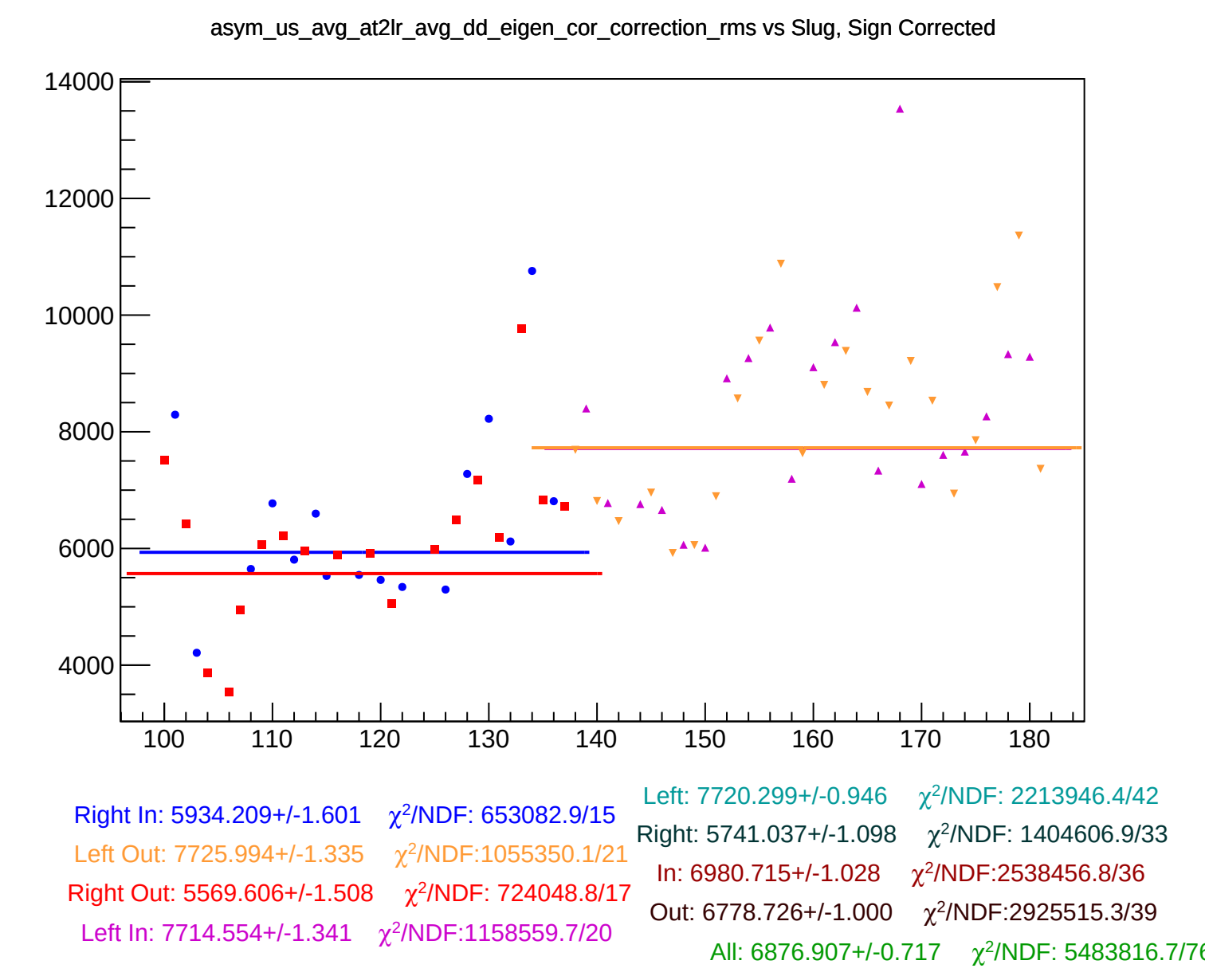
Right: 1449.544+/-0.275 $\chi^2$/NDF: 950691.7/33

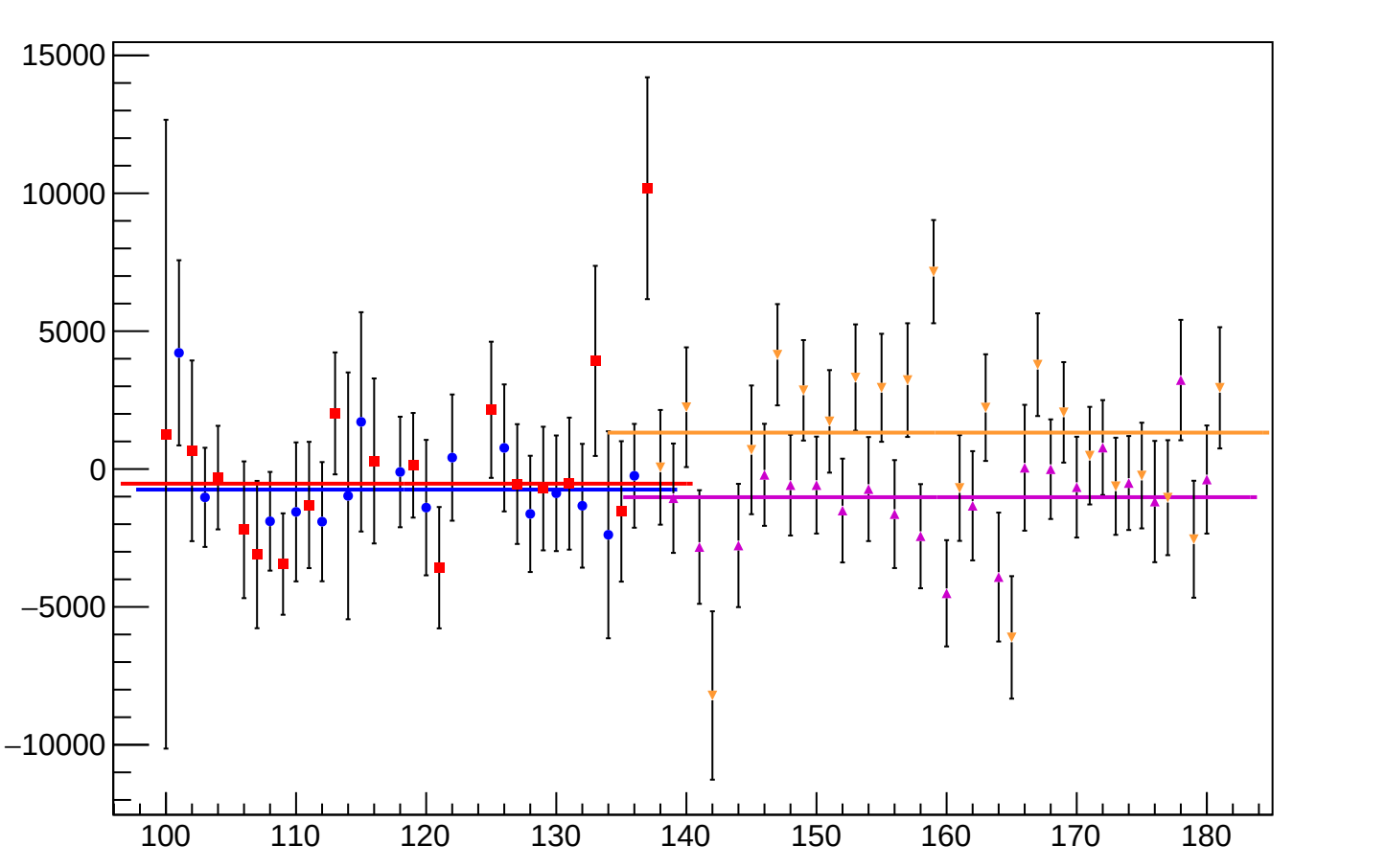
In: 1560.200+/-0.225 $\chi^2$/NDF:819092.2/36

Out: 1550.475+/-0.222 $\chi^2$/NDF:656540.4/39

All: 1555.283+/-0.158 $\chi^2$/NDF: 1476577.8/76


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
100
110
120
130
140
150
160
170
180
Right In: 1588.655+/-2264.260 χ²/NDF: 14.2/15
Left Out: 249.206+/-1887.994 χ²/NDF:28.0/21
Right Out: -40.643+/-2133.039 χ²/NDF: 16.5/17
Left In: -391.786+/-1896.076 χ²/NDF:13.0/20
Left: -69.921+/-1337.862 χ²/NDF: 41.1/42
Right: 725.429+/-1552.604 χ²/NDF: 30.9/33
In: 424.530+/-1453.699 χ²/NDF:27.6/36
Out: 121.880+/-1413.747 χ²/NDF:44.5/39
All: 268.989+/-1013.500 χ²/NDF: 72.1/76


asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
100
110
120
130
140
150
160
170
180
Right In: 5934.209+/-1.601 χ²/NDF: 653082.9/15
Left Out: 7725.994+/-1.335 χ²/NDF:1055350.1/21
Right Out: 5569.606+/-1.508 χ²/NDF: 724048.8/17
Left In: 7714.554+/-1.341 χ²/NDF:1158559.7/20
Left: 7720.299+/-0.946 χ²/NDF: 2213946.4/42
Right: 5741.037+/-1.098 χ²/NDF: 1404606.9/33
In: 6980.715+/-1.028 χ²/NDF:2538456.8/36
Out: 6778.726+/-1.000 χ²/NDF:2925515.3/39
All: 6876.907+/-0.717 χ²/NDF: 5483816.7/76




Right In: -745.914+/-578.071 $\chi^2$/NDF: 4.8/15

Left Out: 1320.514+/-423.477 $\chi^2$/NDF:47.5/21

Right Out: -531.292+/-575.115 $\chi^2$/NDF: 17.7/17

Left In: -1020.964+/-423.603 $\chi^2$/NDF:12.9/20

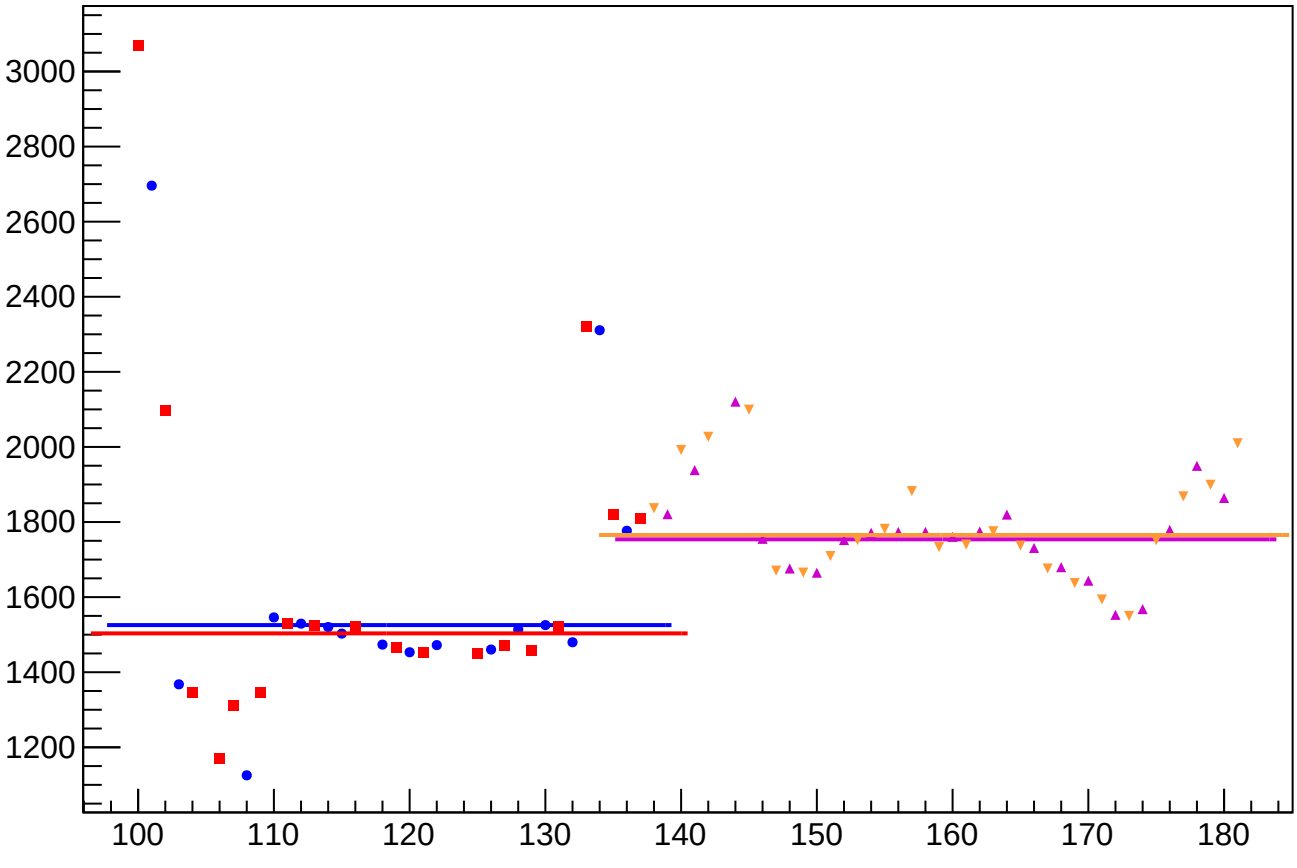
Left: 150.122+/-299.488 $\chi^2$/NDF: 75.7/42

Right: -638.053+/-407.709 $\chi^2$/NDF: 22.6/33

In: -924.869+/-341.684 $\chi^2$/NDF:17.8/36

Out: 669.472+/-341.005 $\chi^2$/NDF:71.9/39

All: -126.113+/-241.367 $\chi^2$/NDF: 100.7/76




Right In: 1525.536+/-0.409 $\chi^2$/NDF: 488328.2/15

Left Out: 1765.474+/-0.299 $\chi^2$/NDF:201752.4/21

Right Out: 1503.434+/-0.407 $\chi^2$/NDF: 338507.3/17

Left In: 1753.887+/-0.300 $\chi^2$/NDF:167835.5/20

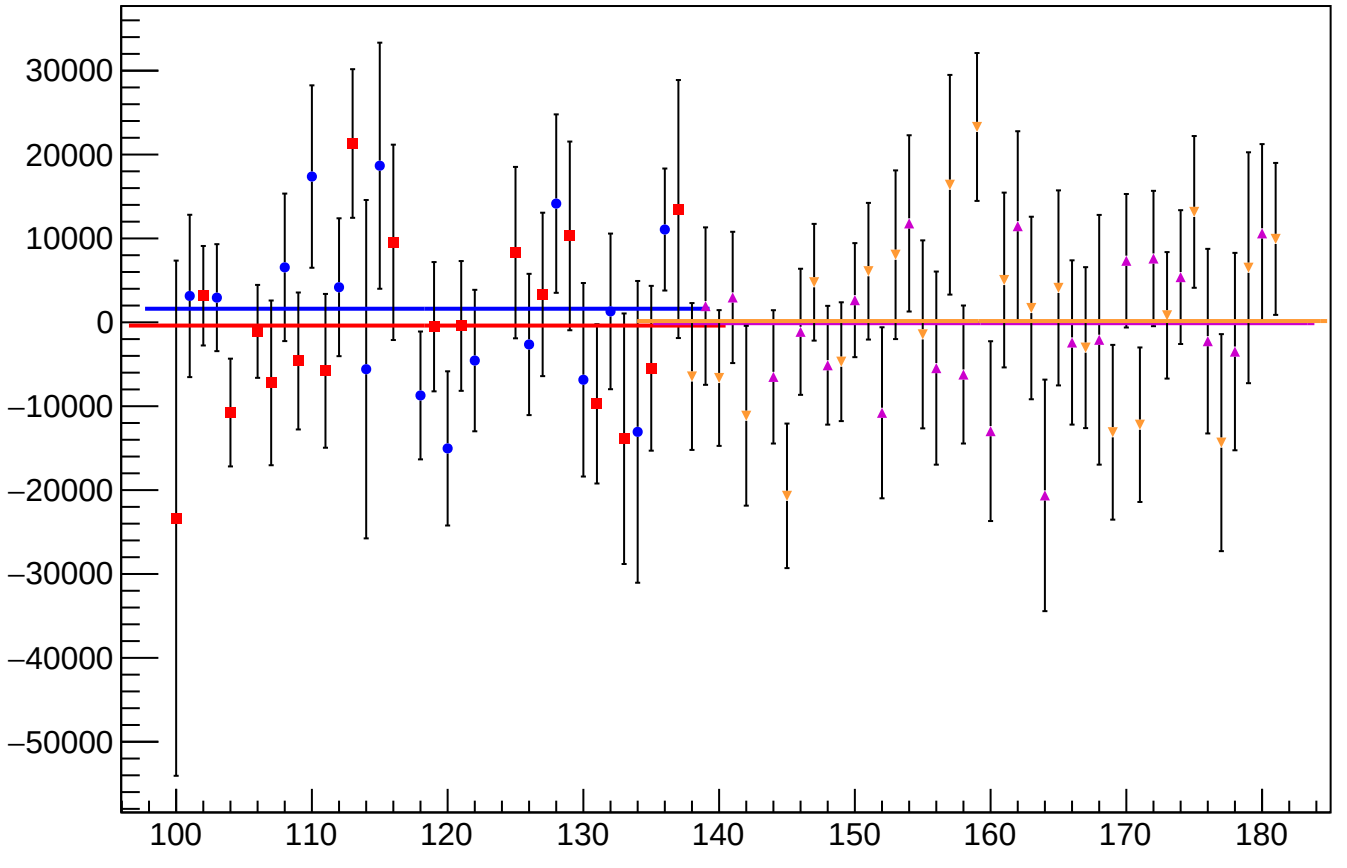
Left: 1759.682+/-0.212 $\chi^2$/NDF: 370336.4/42

Right: 1514.425+/-0.288 $\chi^2$/NDF: 828305.2/33

In: 1674.107+/-0.242 $\chi^2$/NDF:859215.7/36

Out: 1673.313+/-0.241 $\chi^2$/NDF:809587.4/39

All: 1673.710+/-0.171 $\chi^2$/NDF: 1668808.6/76




Right In: 1620.058+/-2320.032 $\chi^2$/NDF: 14.3/15

Left Out: 152.158+/-1988.501 $\chi^2$/NDF:27.3/21

Right Out: -385.942+/-2060.867 $\chi^2$/NDF: 16.0/17

Left In: -103.251+/-1993.210 $\chi^2$/NDF:12.9/20

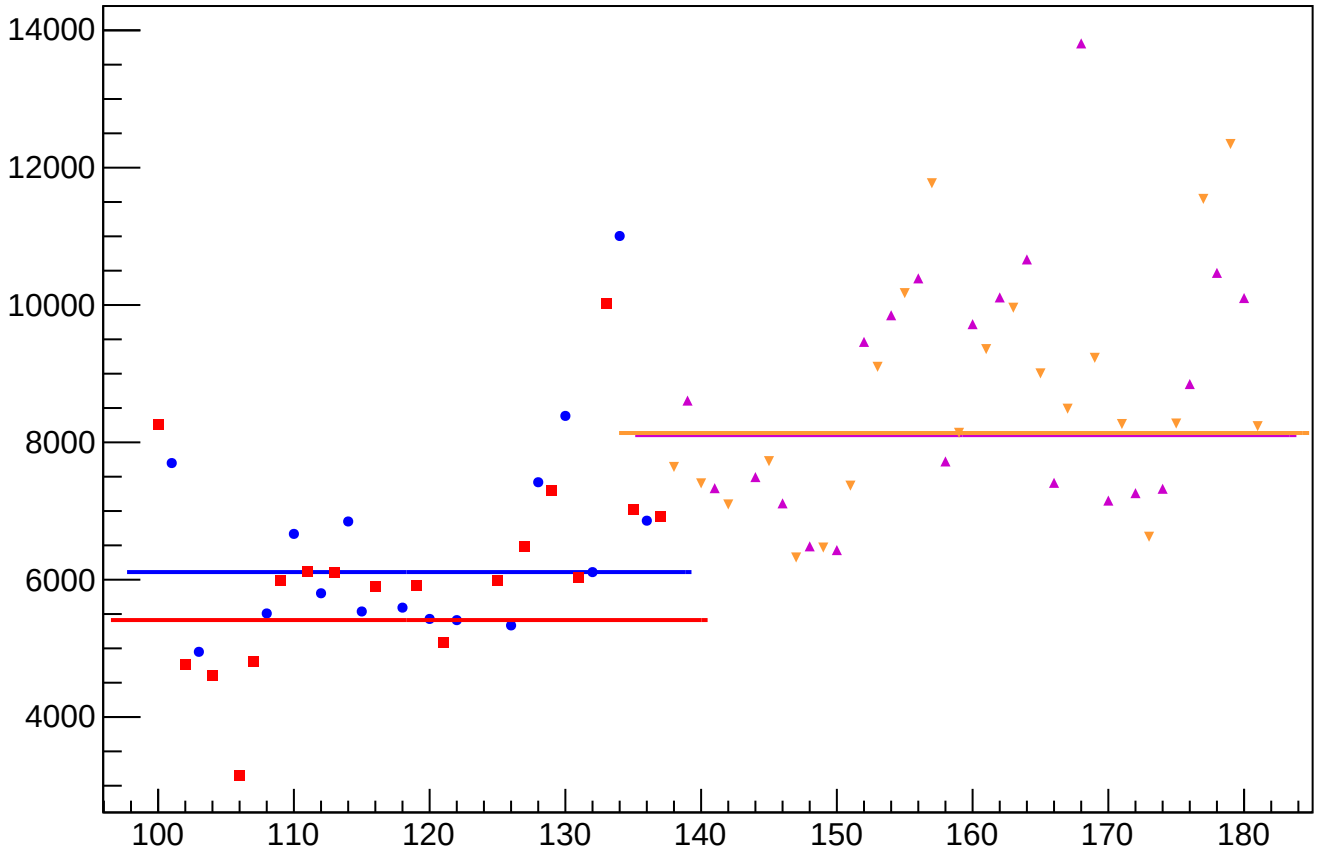
Left: 24.756+/-1407.744 $\chi^2$/NDF: 40.2/42

Right: 498.801+/-1540.768 $\chi^2$/NDF: 30.7/33

In: 628.571+/-1511.872 $\chi^2$/NDF:27.4/36

Out: -107.278+/-1430.982 $\chi^2$/NDF:43.4/39

All: 240.435+/-1039.277 $\chi^2$/NDF: 70.9/76




Right In: 6111.037+/-1.641 $\chi^2$/NDF: 471661.4/15

Left Out: 8136.074+/-1.406 $\chi^2$/NDF:1076210.0/21

Right Out: 5412.276+/-1.457 $\chi^2$/NDF: 821530.3/17

Left In: 8105.234+/-1.409 $\chi^2$/NDF:1182395.7/20

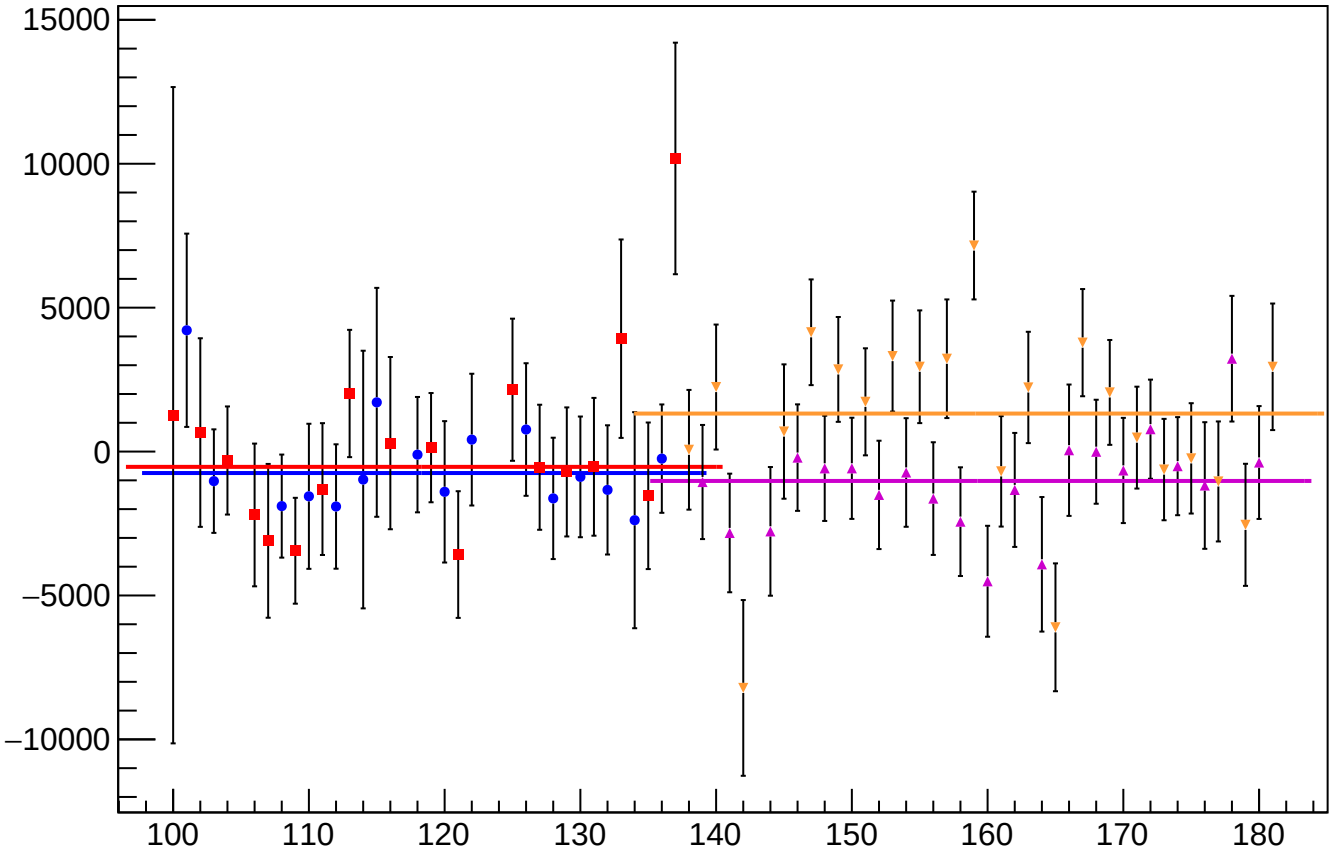
Left: 8120.690+/-0.995 $\chi^2$/NDF: 2258845.7/42

Right: 5720.463+/-1.089 $\chi^2$/NDF: 1394599.9/33

In: 7258.376+/-1.069 $\chi^2$/NDF:2504220.0/36

Out: 6822.837+/-1.012 $\chi^2$/NDF:3706981.9/39

All: 7028.644+/-0.735 $\chi^2$/NDF: 6298750.6/76




Right In: -745.918+/-578.071 $\chi^2$/NDF: 4.8/15

Left Out: 1320.521+/-423.478 $\chi^2$/NDF:47.5/21

Right Out: -531.302+/-575.115 $\chi^2$/NDF: 17.7/17

Left In: -1020.964+/-423.604 $\chi^2$/NDF:12.9/20

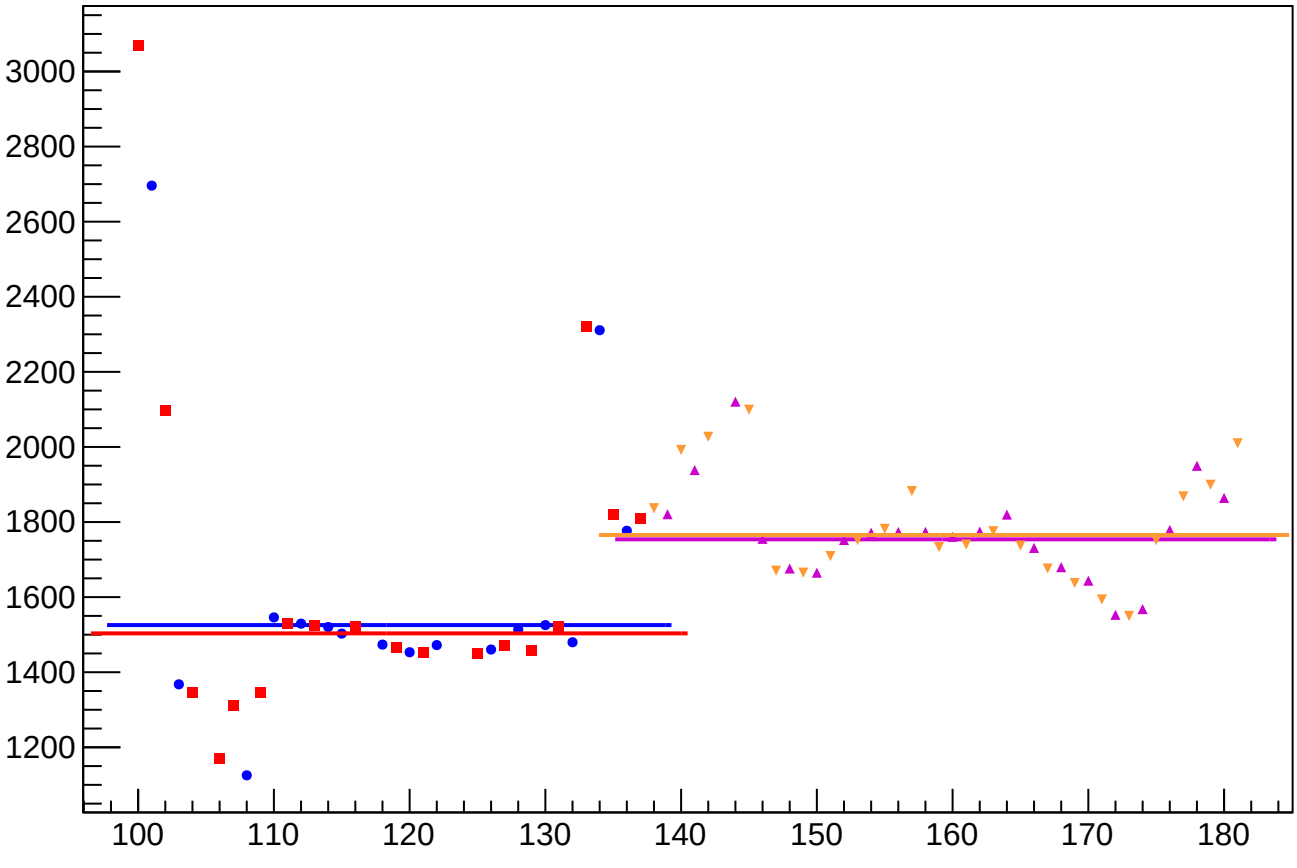
Left: 150.126+/-299.489 $\chi^2$/NDF: 75.7/42

Right: -638.060+/-407.709 $\chi^2$/NDF: 22.6/33

In: -924.870+/-341.685 $\chi^2$/NDF:17.8/36

Out: 669.472+/-341.006 $\chi^2$/NDF:71.9/39

All: -126.113+/-241.367 $\chi^2$/NDF: 100.7/76




Right In: 1525.536+/-0.409 $\chi^2$/NDF: 488327.8/15

Left Out: 1765.477+/-0.299 $\chi^2$/NDF:201760.9/21

Right Out: 1503.435+/-0.407 $\chi^2$/NDF: 338507.7/17

Left In: 1753.890+/-0.300 $\chi^2$/NDF:167843.5/20

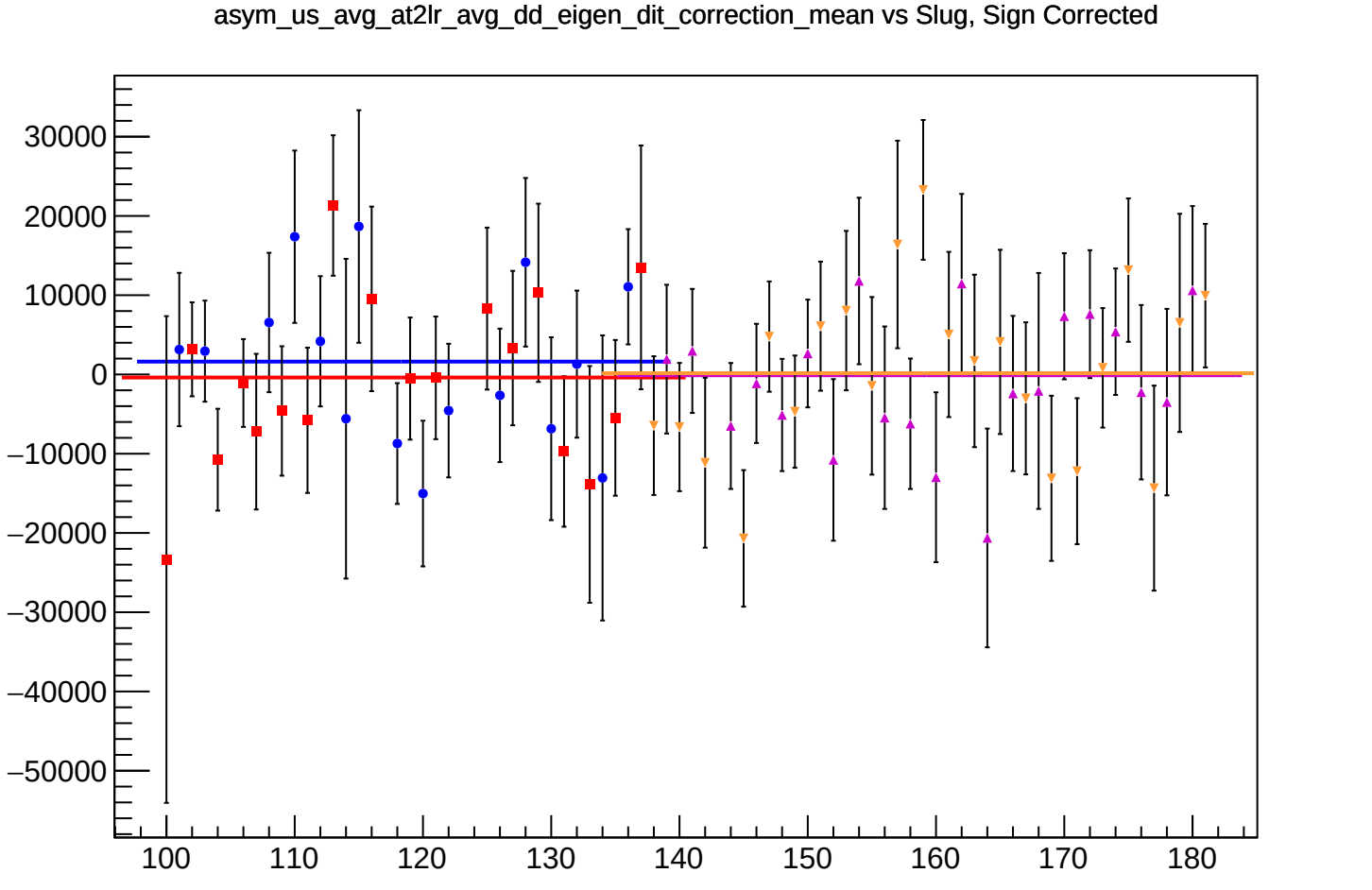
Left: 1759.685+/-0.212 $\chi^2$/NDF: 370352.8/42

Right: 1514.425+/-0.288 $\chi^2$/NDF: 828305.2/33

In: 1674.109+/-0.242 $\chi^2$/NDF:859228.3/36

Out: 1673.315+/-0.241 $\chi^2$/NDF:809601.1/39

All: 1673.711+/-0.171 $\chi^2$/NDF: 1668834.8/76




Right In: 1620.038+/-2320.027 $\chi^2$/NDF: 14.3/15

Left Out: 152.159+/-1988.504 $\chi^2$/NDF:27.3/21

Right Out: -385.948+/-2060.863 $\chi^2$/NDF: 16.0/17

Left In: -103.250+/-1993.213 $\chi^2$/NDF:12.9/20

Left: 24.757+/-1407.747 $\chi^2$/NDF: 40.2/42

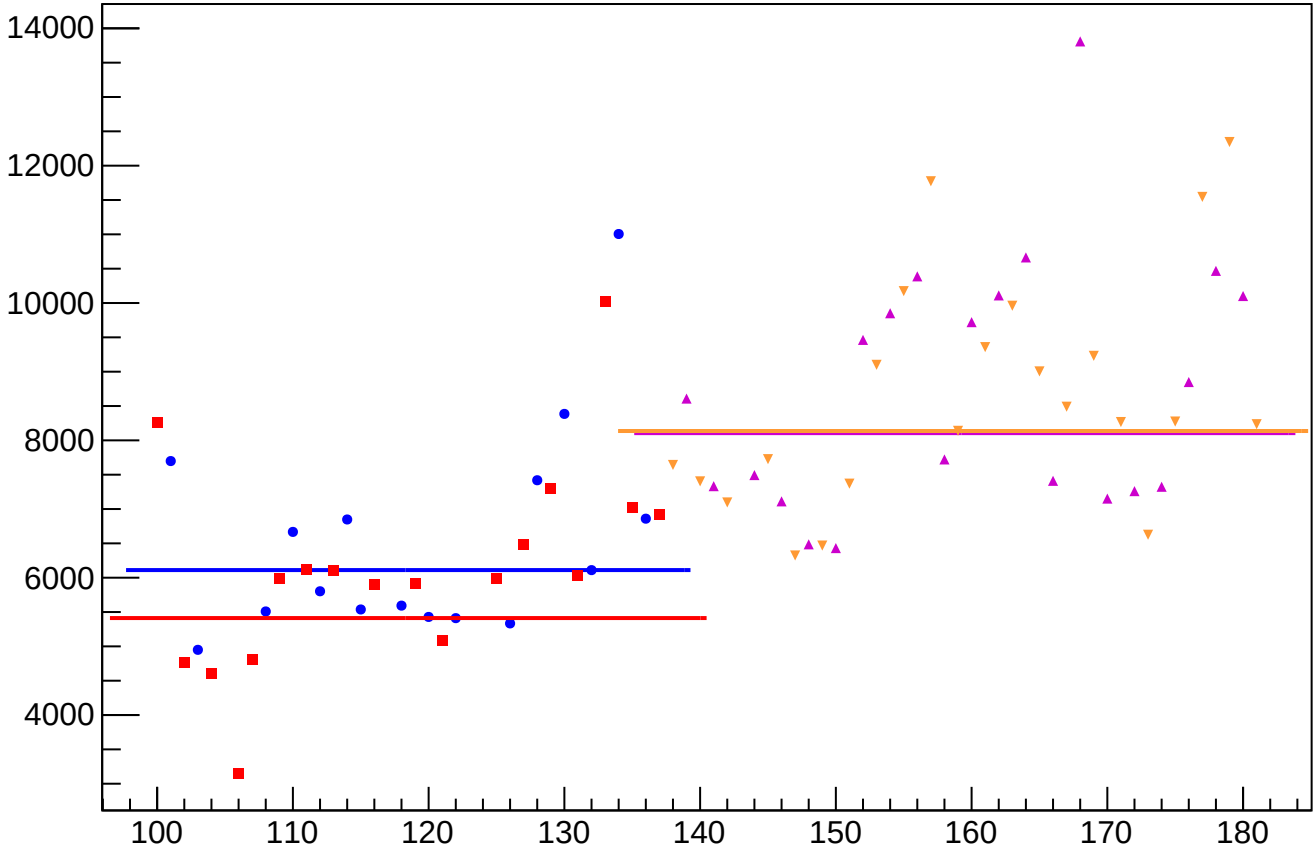
Right: 498.789+/-1540.764 $\chi^2$/NDF: 30.7/33

In: 628.566+/-1511.872 $\chi^2$/NDF:27.4/36

Out: -107.282+/-1430.982 $\chi^2$/NDF:43.4/39

All: 240.431+/-1039.277 $\chi^2$/NDF: 70.9/76

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 6111.023+/-1.641 $\chi^2$/NDF: 471663.6/15

Left Out: 8136.086+/-1.406 $\chi^2$/NDF:1076212.6/21

Right Out: 5412.265+/-1.457 $\chi^2$/NDF: 821530.5/17

Left In: 8105.246+/-1.409 $\chi^2$/NDF:1182399.8/20

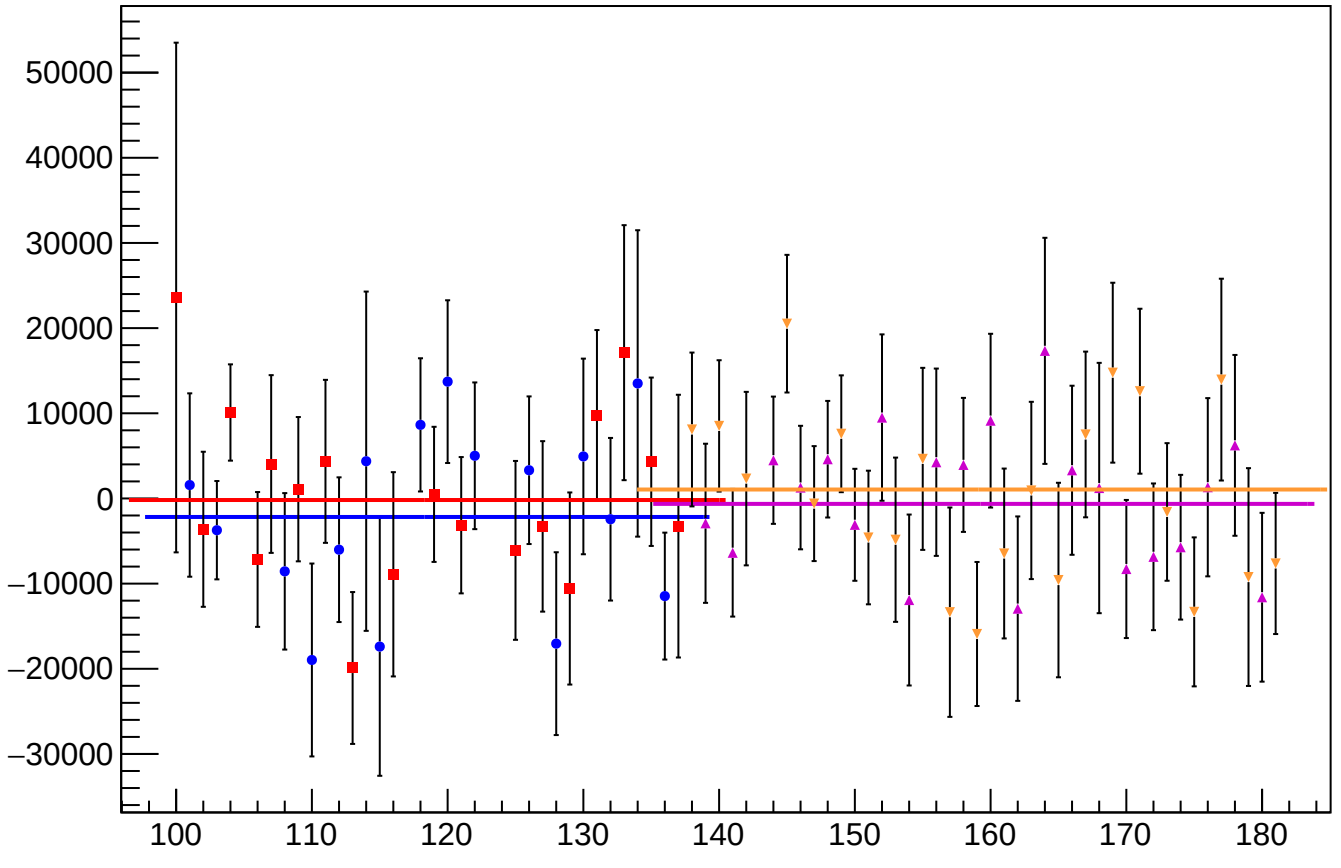
Left: 8120.702+/-0.995 $\chi^2$/NDF: 2258852.4/42

Right: 5720.451+/-1.089 $\chi^2$/NDF: 1394602.1/33

In: 7258.374+/-1.069 $\chi^2$/NDF:2504248.9/36

Out: 6822.833+/-1.012 $\chi^2$/NDF:3707017.4/39

All: 7028.641+/-0.735 $\chi^2$/NDF: 6298815.7/76




Right In: -2174.048+/-2347.664 $\chi^2$/NDF: 14.6/15

Left Out: 1049.994+/-1935.494 $\chi^2$/NDF:25.5/21

Right Out: -183.559+/-2228.883 $\chi^2$/NDF: 14.7/17

Left In: -637.861+/-1943.162 $\chi^2$/NDF:12.5/20

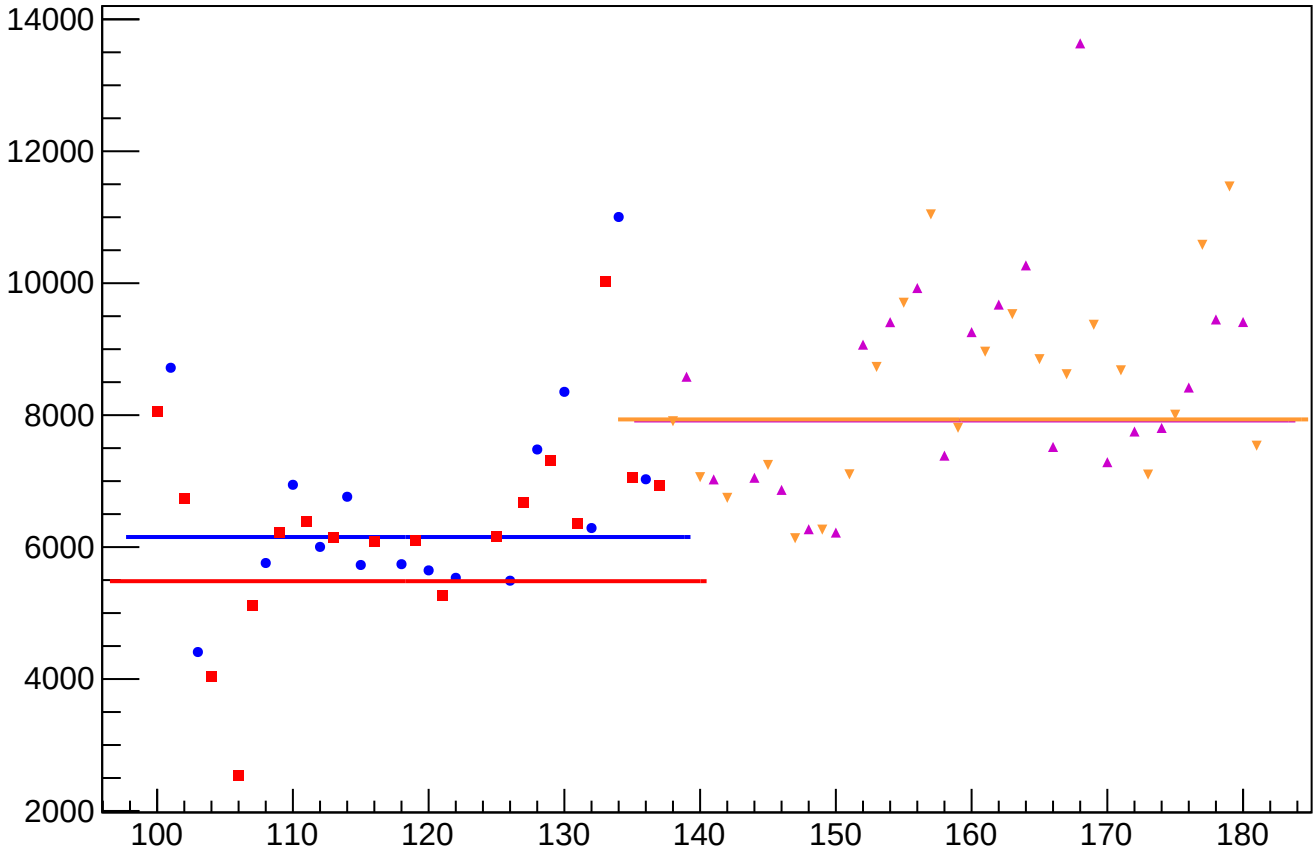
Left: 209.403+/-1371.304 $\chi^2$/NDF: 38.3/42

Right: -1127.176+/-1616.419 $\chi^2$/NDF: 29.6/33

In: -1262.412+/-1496.917 $\chi^2$/NDF:27.3/36

Out: 519.694+/-1461.399 $\chi^2$/NDF:40.3/39

All: -349.966+/-1045.697 $\chi^2$/NDF: 68.3/76




Right In: 6152.690+/-1.660 $\chi^2$/NDF: 624026.7/15

Left Out: 7935.287+/-1.369 $\chi^2$/NDF:965923.4/21

Right Out: 5483.337+/-1.519 $\chi^2$/NDF: 1148712.9/17

Left In: 7919.387+/-1.374 $\chi^2$/NDF:1065269.8/20

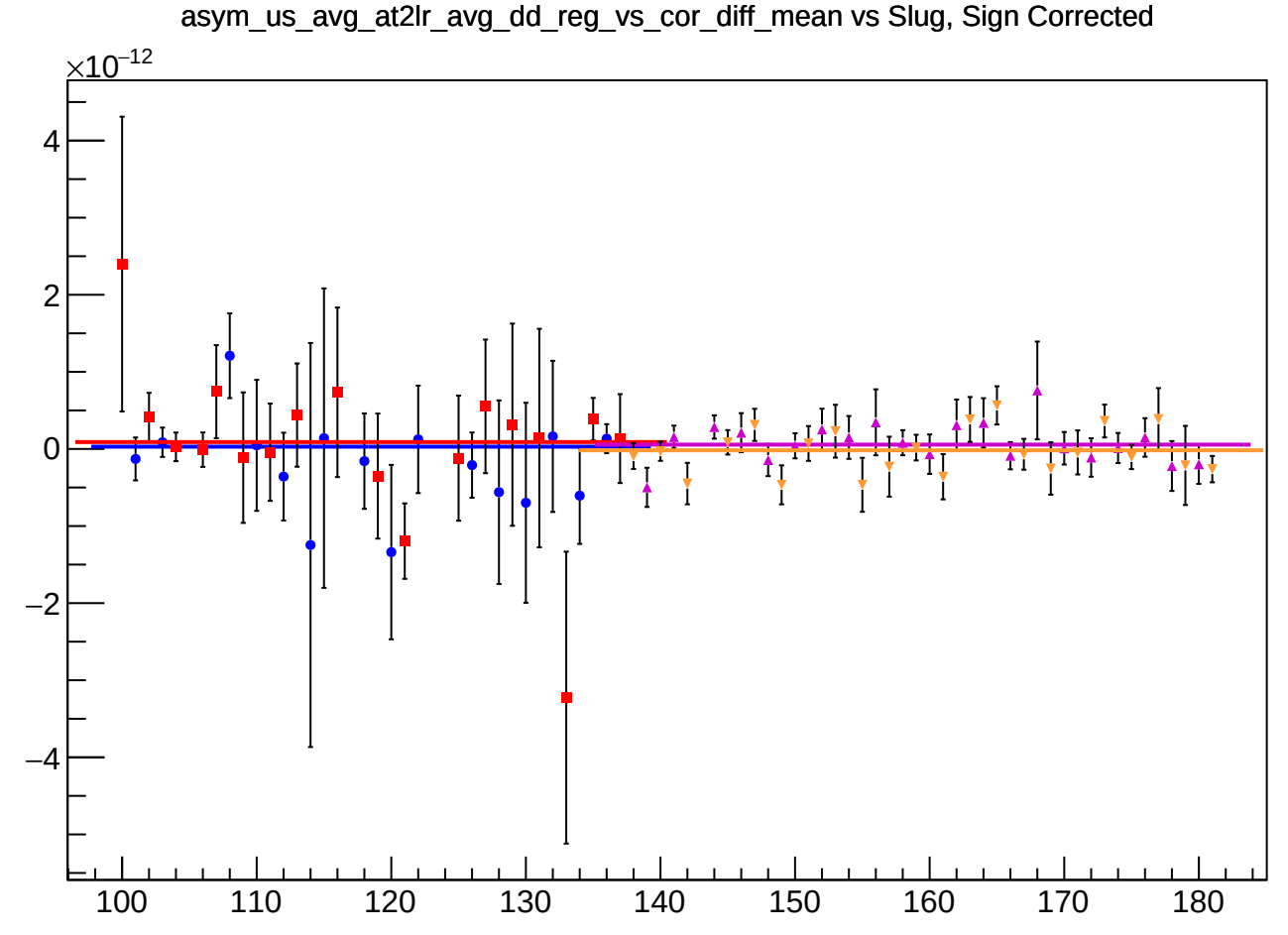
Left: 7927.368+/-0.970 $\chi^2$/NDF: 2031260.4/42

Right: 5788.476+/-1.121 $\chi^2$/NDF: 1861205.2/33

In: 7201.115+/-1.058 $\chi^2$/NDF:2361441.0/36

Out: 6837.042+/-1.017 $\chi^2$/NDF:3552300.3/39

All: 7011.789+/-0.733 $\chi^2$/NDF: 5975263.7/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:27.5/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.8/20

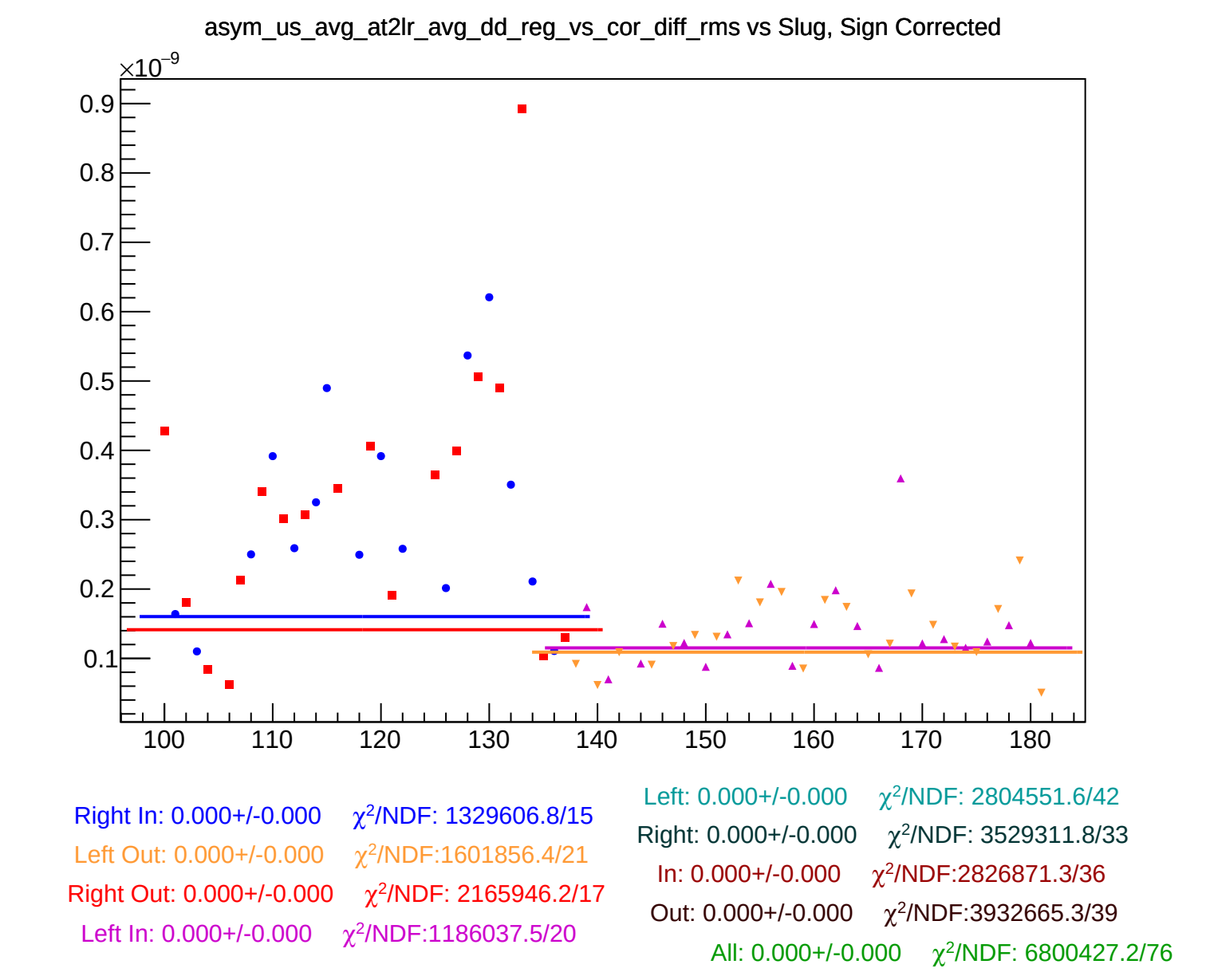
Left: 0.000+/-0.000 $\chi^2$/NDF: 44.6/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.2/33

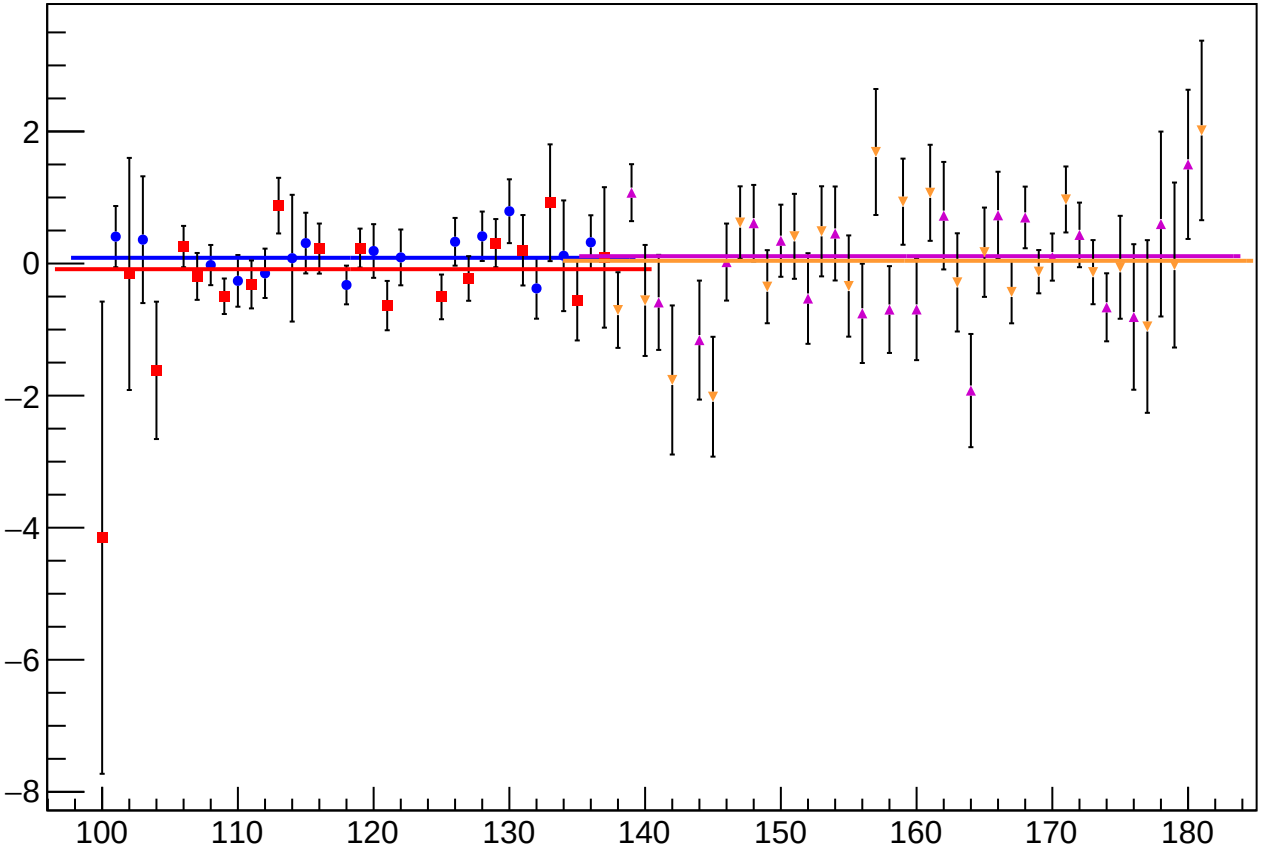
In: 0.000+/-0.000 $\chi^2$/NDF:25.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:44.9/39

All: 0.000+/-0.000 $\chi^2$/NDF: 71.0/76


asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−9
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1329606.8/15
Left Out: 0.000+/-0.000 χ²/NDF:1601856.4/21
Right Out: 0.000+/-0.000 χ²/NDF: 2165946.2/17
Left In: 0.000+/-0.000 χ²/NDF:1186037.5/20
Left: 0.000+/-0.000 χ²/NDF: 2804551.6/42
Right: 0.000+/-0.000 χ²/NDF: 3529311.8/33
In: 0.000+/-0.000 χ²/NDF:2826871.3/36
Out: 0.000+/-0.000 χ²/NDF:3932665.3/39
All: 0.000+/-0.000 χ²/NDF: 6800427.2/76

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: 0.041+/-0.136 $\chi^2$/NDF:27.2/21

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.111+/-0.134 $\chi^2$/NDF:27.6/20

Left: 0.077+/-0.096 $\chi^2$/NDF: 54.9/42

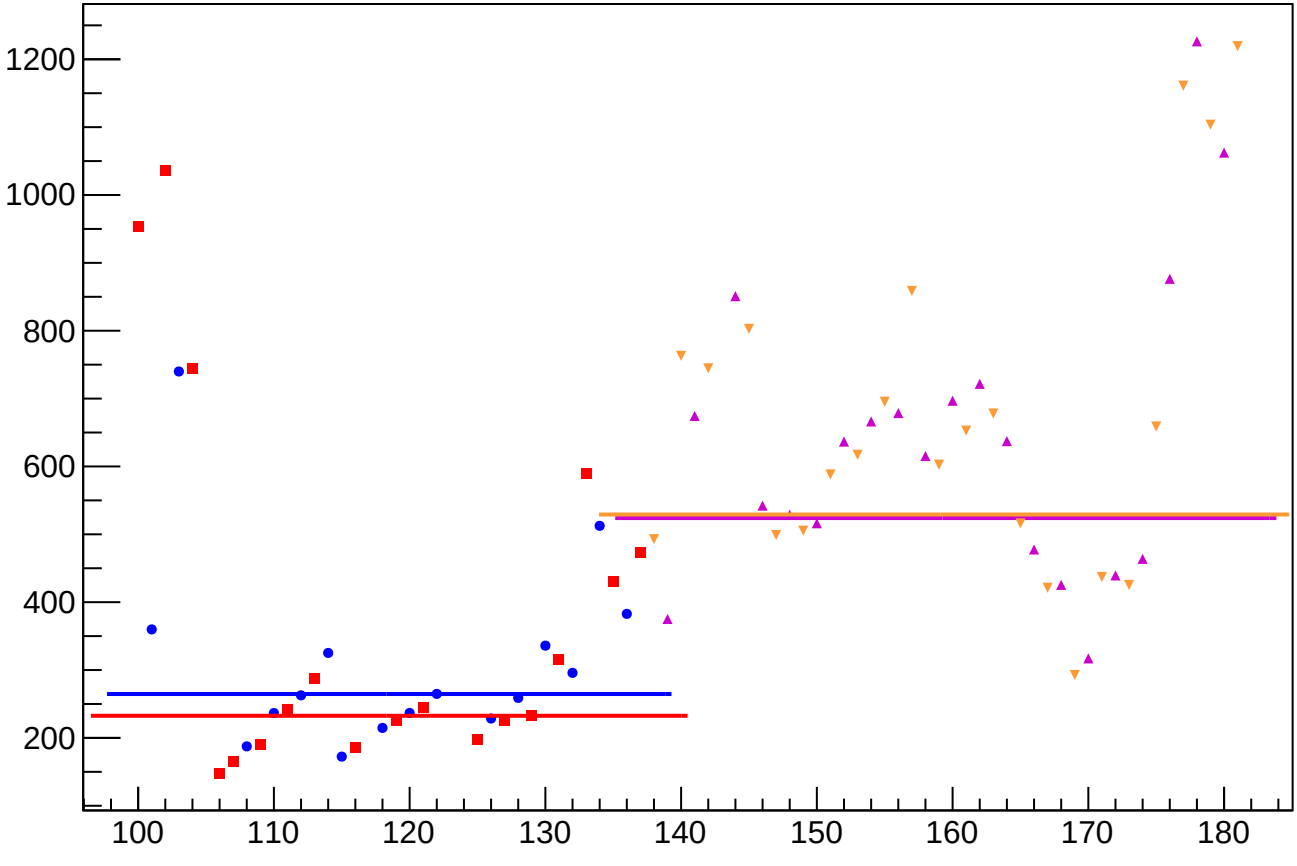
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.096+/-0.083 $\chi^2$/NDF:36.5/36

Out: -0.043+/-0.079 $\chi^2$/NDF:49.6/39

All: 0.024+/-0.057 $\chi^2$/NDF: 87.5/76

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 264.667+/-0.074 $\chi^2$/NDF: 1284007.6/15

Left Out: 529.201+/-0.096 $\chi^2$/NDF:3739462.5/21

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032662.7/17

Left In: 523.950+/-0.095 $\chi^2$/NDF:3122590.7/20

Left: 526.544+/-0.068 $\chi^2$/NDF: 6863561.8/42

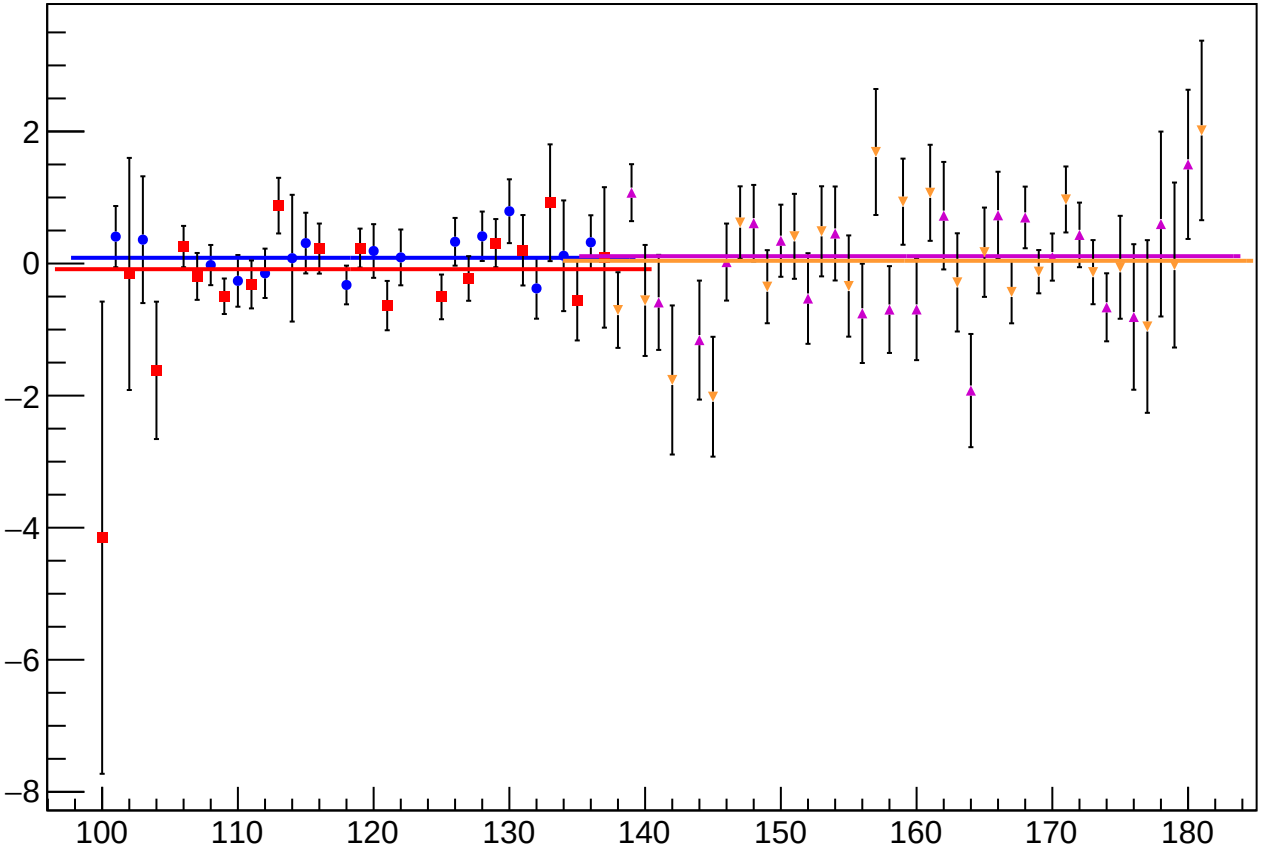
Right: 247.407+/-0.050 $\chi^2$/NDF: 3416944.1/33

In: 363.039+/-0.059 $\chi^2$/NDF:9026668.1/36

Out: 333.058+/-0.056 $\chi^2$/NDF:12062173.8/39

All: 347.377+/-0.040 $\chi^2$/NDF: 21225886.8/76

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: 0.041+/-0.136 $\chi^2$/NDF:27.2/21

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.111+/-0.134 $\chi^2$/NDF:27.6/20

Left: 0.077+/-0.096 $\chi^2$/NDF: 54.9/42

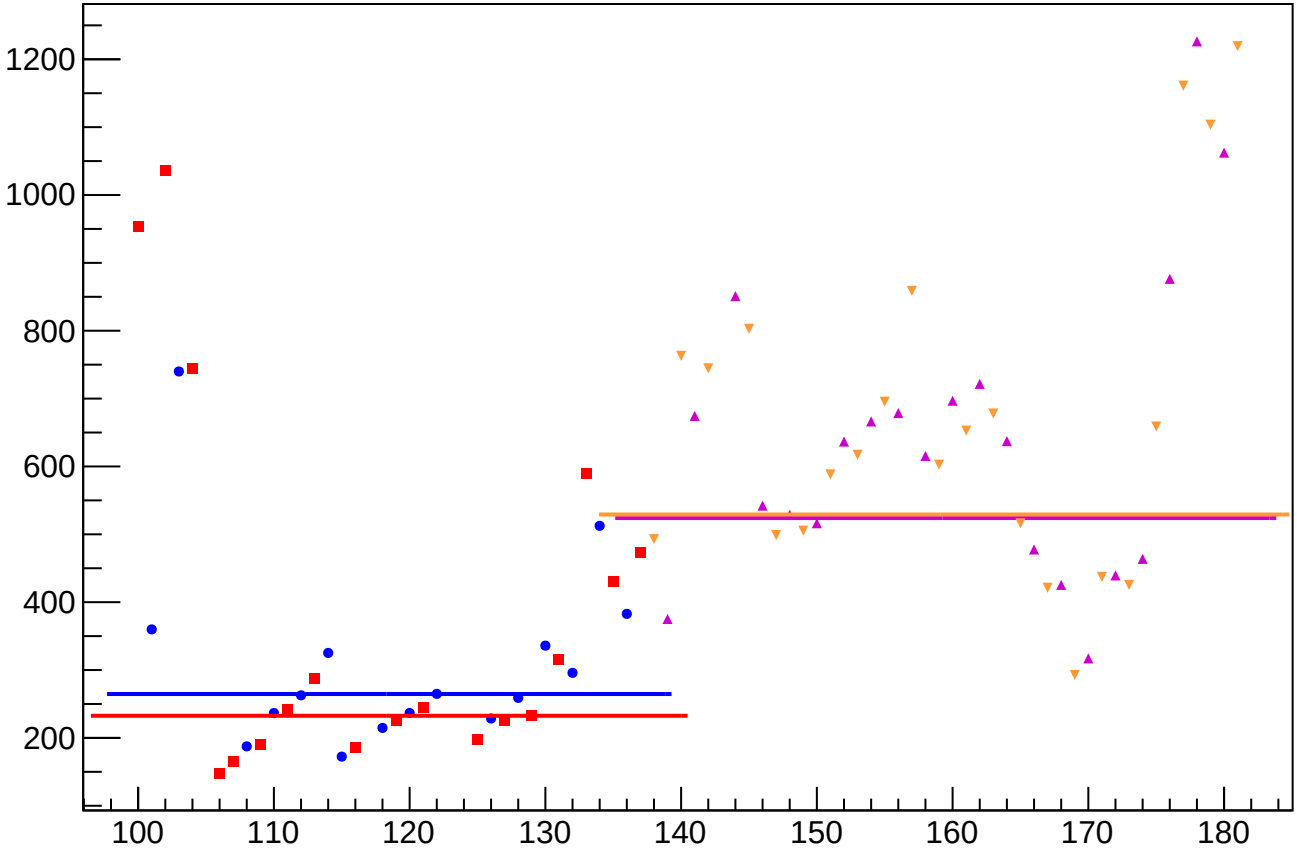
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.096+/-0.083 $\chi^2$/NDF:36.5/36

Out: -0.043+/-0.079 $\chi^2$/NDF:49.6/39

All: 0.024+/-0.057 $\chi^2$/NDF: 87.5/76

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 264.667+/-0.074 $\chi^2$/NDF: 1284007.6/15

Left Out: 529.201+/-0.096 $\chi^2$/NDF:3739462.5/21

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032662.7/17

Left In: 523.950+/-0.095 $\chi^2$/NDF:3122590.7/20

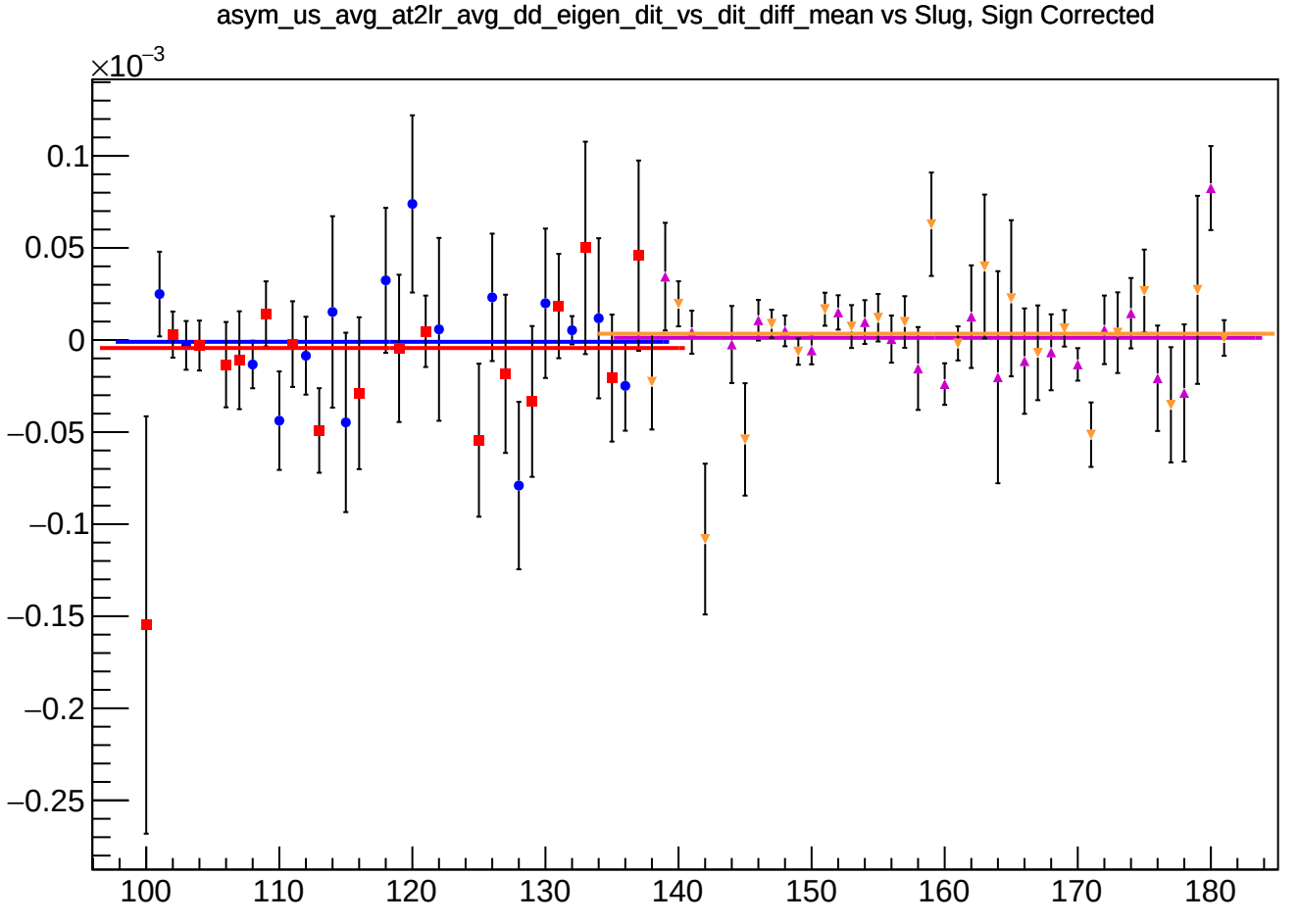
Left: 526.544+/-0.068 $\chi^2$/NDF: 6863561.8/42

Right: 247.407+/-0.050 $\chi^2$/NDF: 3416944.1/33

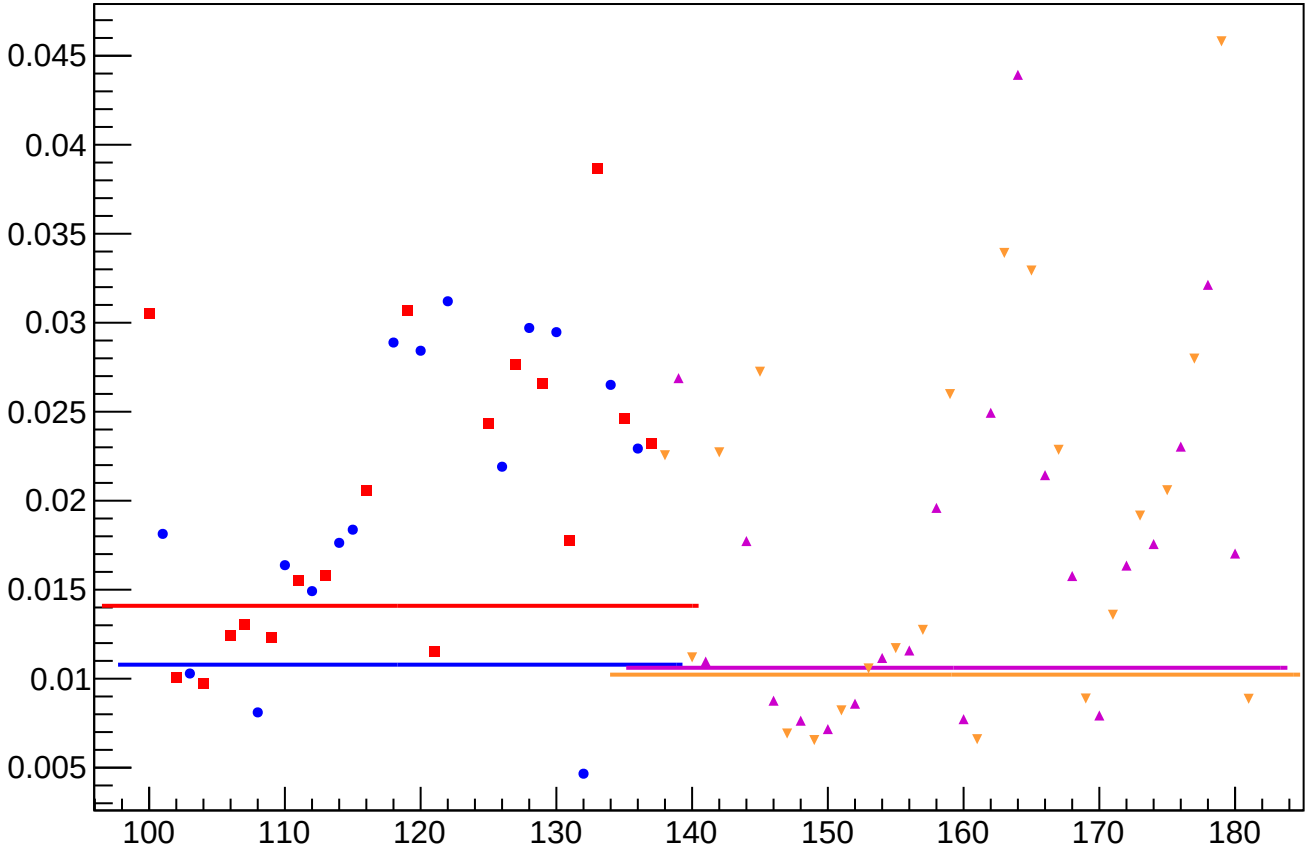
In: 363.039+/-0.059 $\chi^2$/NDF:9026668.1/36

Out: 333.058+/-0.056 $\chi^2$/NDF:12062173.8/39

All: 347.377+/-0.040 $\chi^2$/NDF: 21225886.8/76


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 14.4/15
Left Out: 0.000+/-0.000 χ²/NDF:37.8/21
Right Out: -0.000+/-0.000 χ²/NDF: 12.6/17
Left In: 0.000+/-0.000 χ²/NDF:29.2/20
Left: 0.000+/-0.000 χ²/NDF: 67.3/42
Right: -0.000+/-0.000 χ²/NDF: 27.2/33
In: 0.000+/-0.000 χ²/NDF:43.7/36
Out: 0.000+/-0.000 χ²/NDF:51.9/39
All: 0.000+/-0.000 χ²/NDF: 95.7/76

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 4580054.6/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:7620518.0/21

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 2084942.5/17

Left In: 0.011+/-0.000 $\chi^2$/NDF:5584601.3/20

Left: 0.010+/-0.000 $\chi^2$/NDF: 13222581.5/42

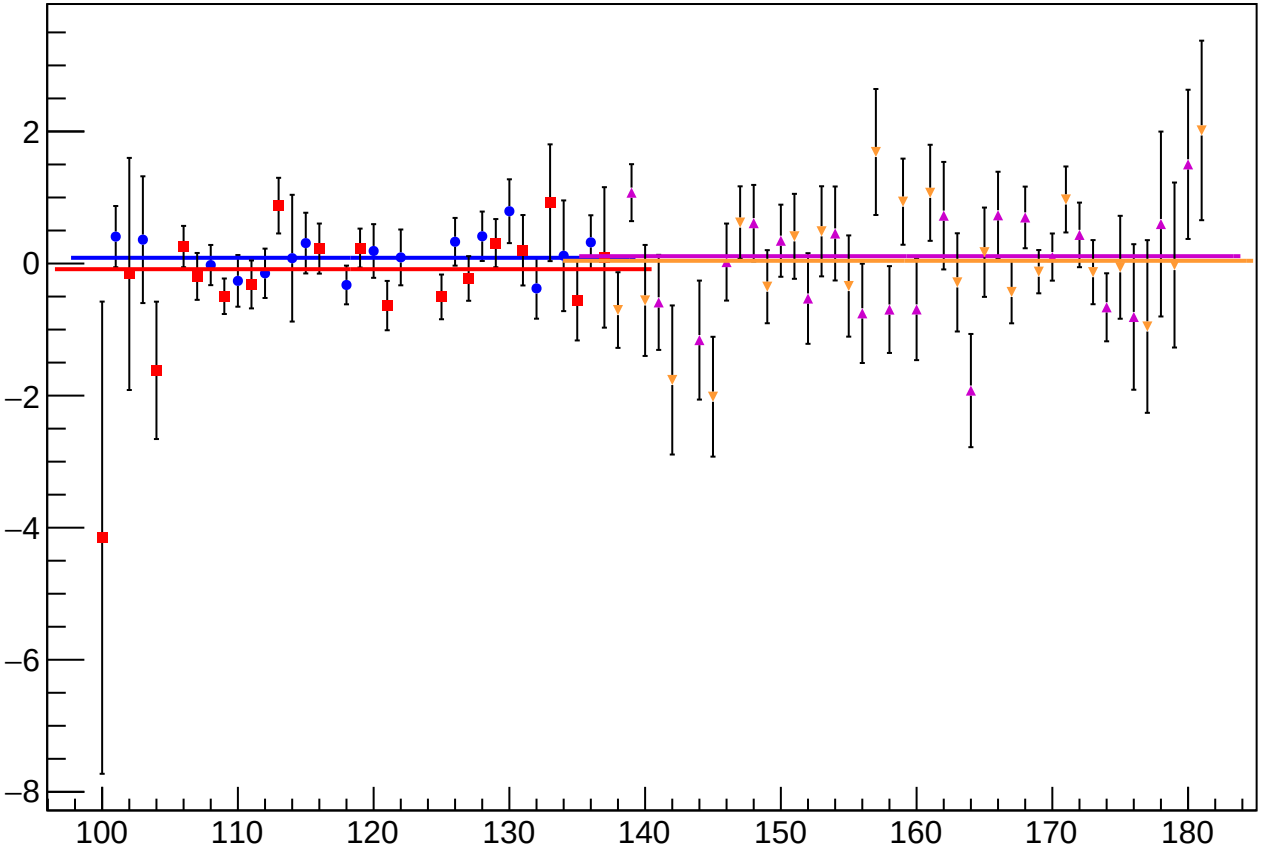
Right: 0.012+/-0.000 $\chi^2$/NDF: 7045946.1/33

In: 0.011+/-0.000 $\chi^2$/NDF:10166466.5/36

Out: 0.011+/-0.000 $\chi^2$/NDF:10435454.9/39

All: 0.011+/-0.000 $\chi^2$/NDF: 20619386.0/76

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: 0.041+/-0.136 $\chi^2$/NDF:27.2/21

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.111+/-0.134 $\chi^2$/NDF:27.6/20

Left: 0.077+/-0.096 $\chi^2$/NDF: 54.9/42

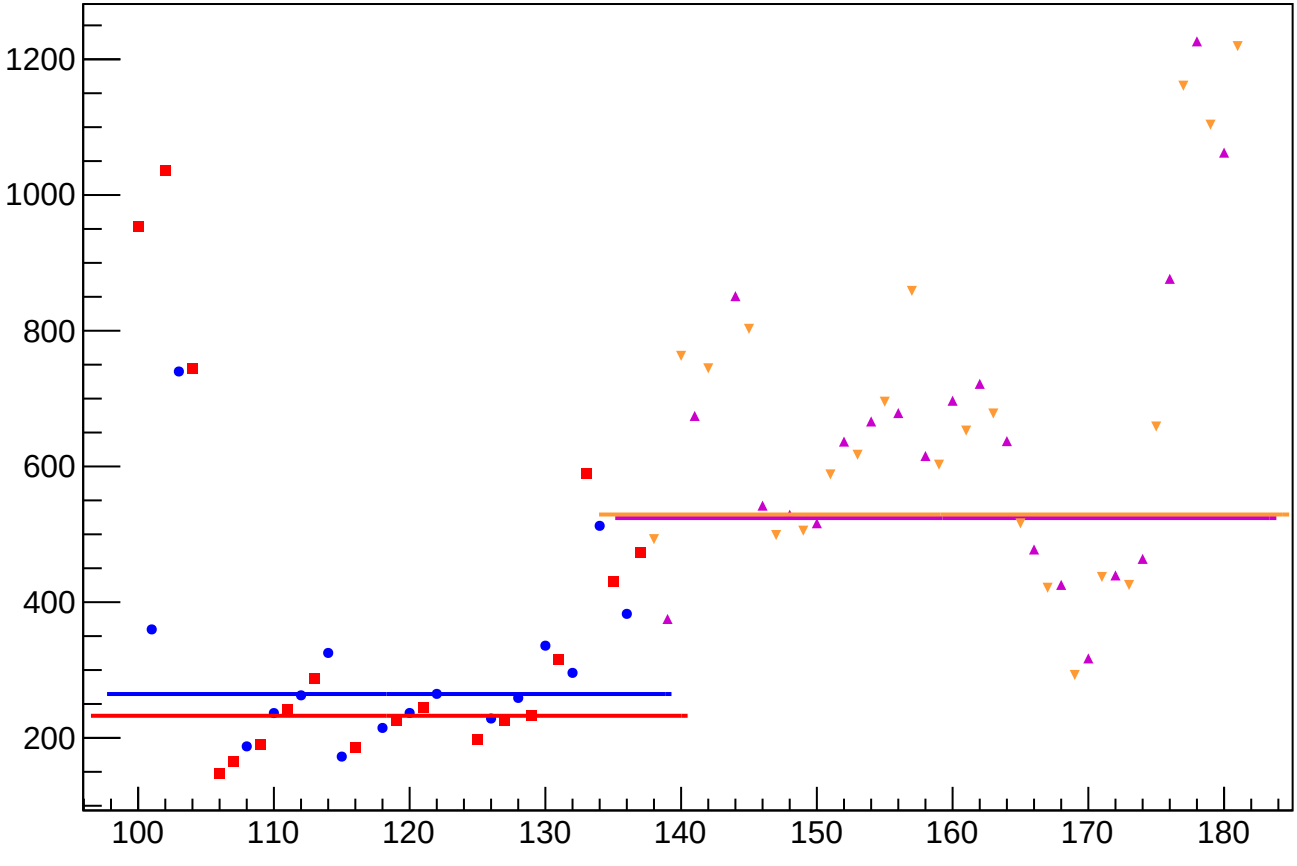
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.096+/-0.083 $\chi^2$/NDF:36.5/36

Out: -0.043+/-0.079 $\chi^2$/NDF:49.6/39

All: 0.024+/-0.057 $\chi^2$/NDF: 87.5/76

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 264.667+/-0.074 $\chi^2$/NDF: 1283977.8/15

Left Out: 529.201+/-0.096 $\chi^2$/NDF:3739634.7/21

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032655.0/17

Left In: 523.953+/-0.095 $\chi^2$/NDF:3122675.8/20

Left: 526.545+/-0.068 $\chi^2$/NDF: 6863817.5/42

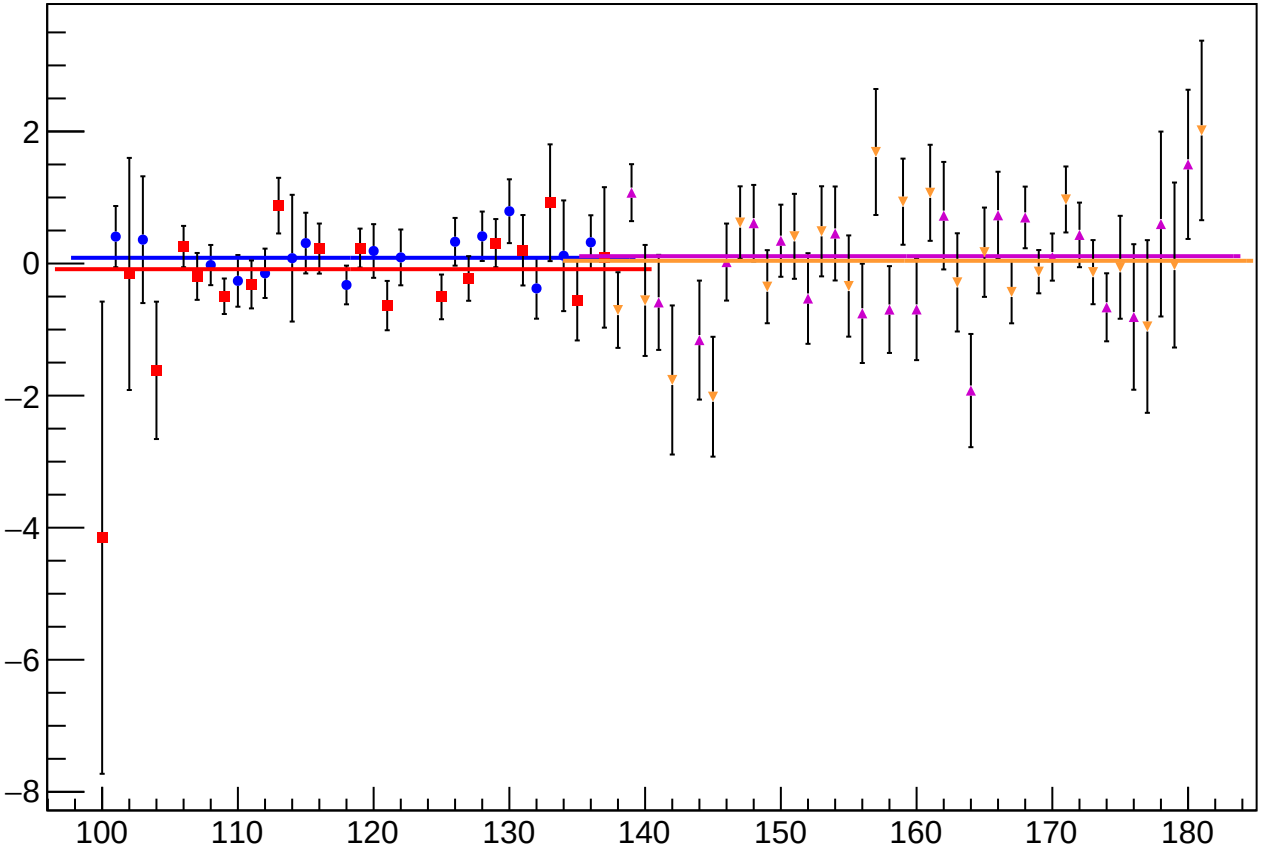
Right: 247.407+/-0.050 $\chi^2$/NDF: 3416901.3/33

In: 363.038+/-0.059 $\chi^2$/NDF:9026804.4/36

Out: 333.058+/-0.056 $\chi^2$/NDF:12062287.9/39

All: 347.378+/-0.040 $\chi^2$/NDF: 21226132.8/76

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: 0.041+/-0.136 $\chi^2$/NDF:27.2/21

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.111+/-0.134 $\chi^2$/NDF:27.6/20

Left: 0.077+/-0.096 $\chi^2$/NDF: 54.9/42

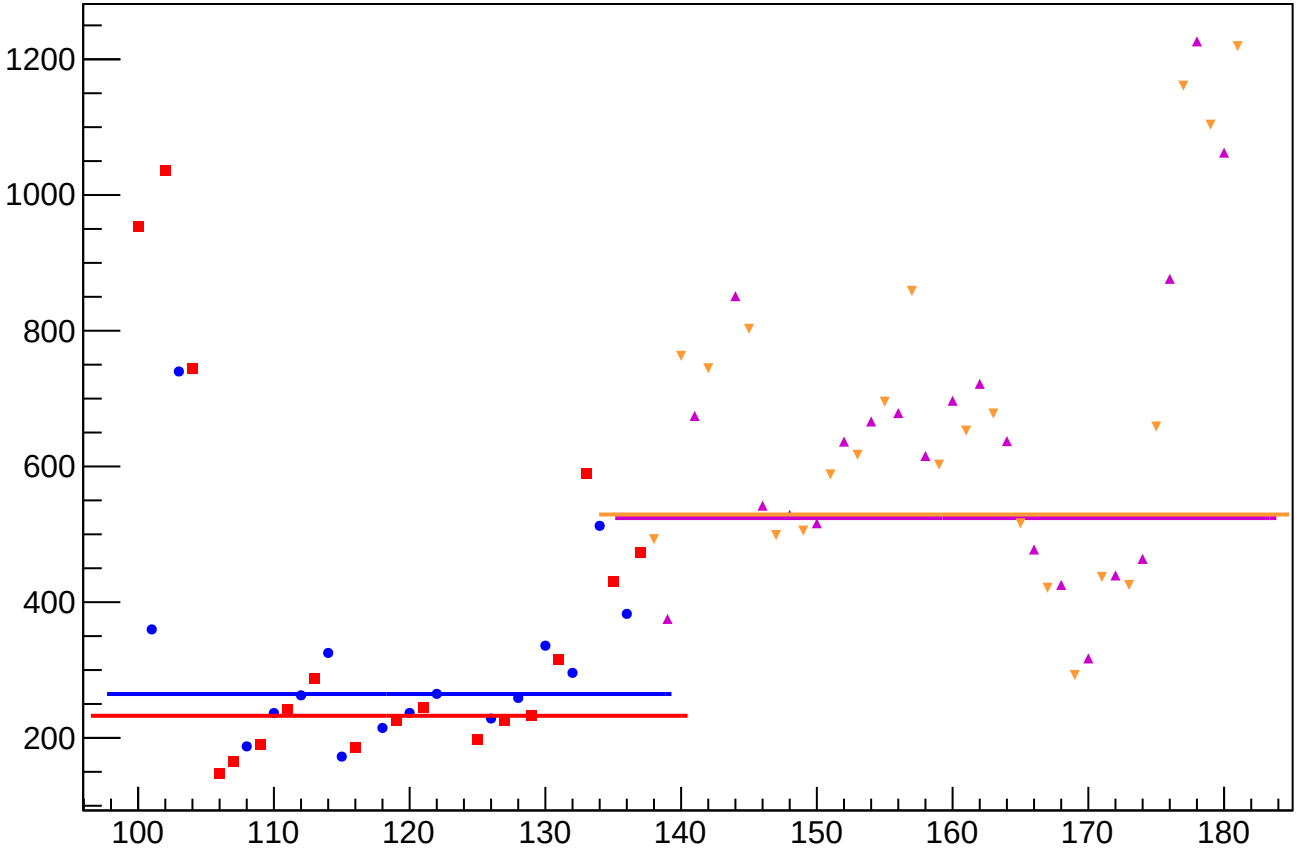
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.096+/-0.083 $\chi^2$/NDF:36.5/36

Out: -0.043+/-0.079 $\chi^2$/NDF:49.6/39

All: 0.024+/-0.057 $\chi^2$/NDF: 87.5/76

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 264.667+/-0.074 $\chi^2$/NDF: 1283977.8/15

Left Out: 529.201+/-0.096 $\chi^2$/NDF:3739634.7/21

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032655.0/17

Left In: 523.953+/-0.095 $\chi^2$/NDF:3122675.8/20

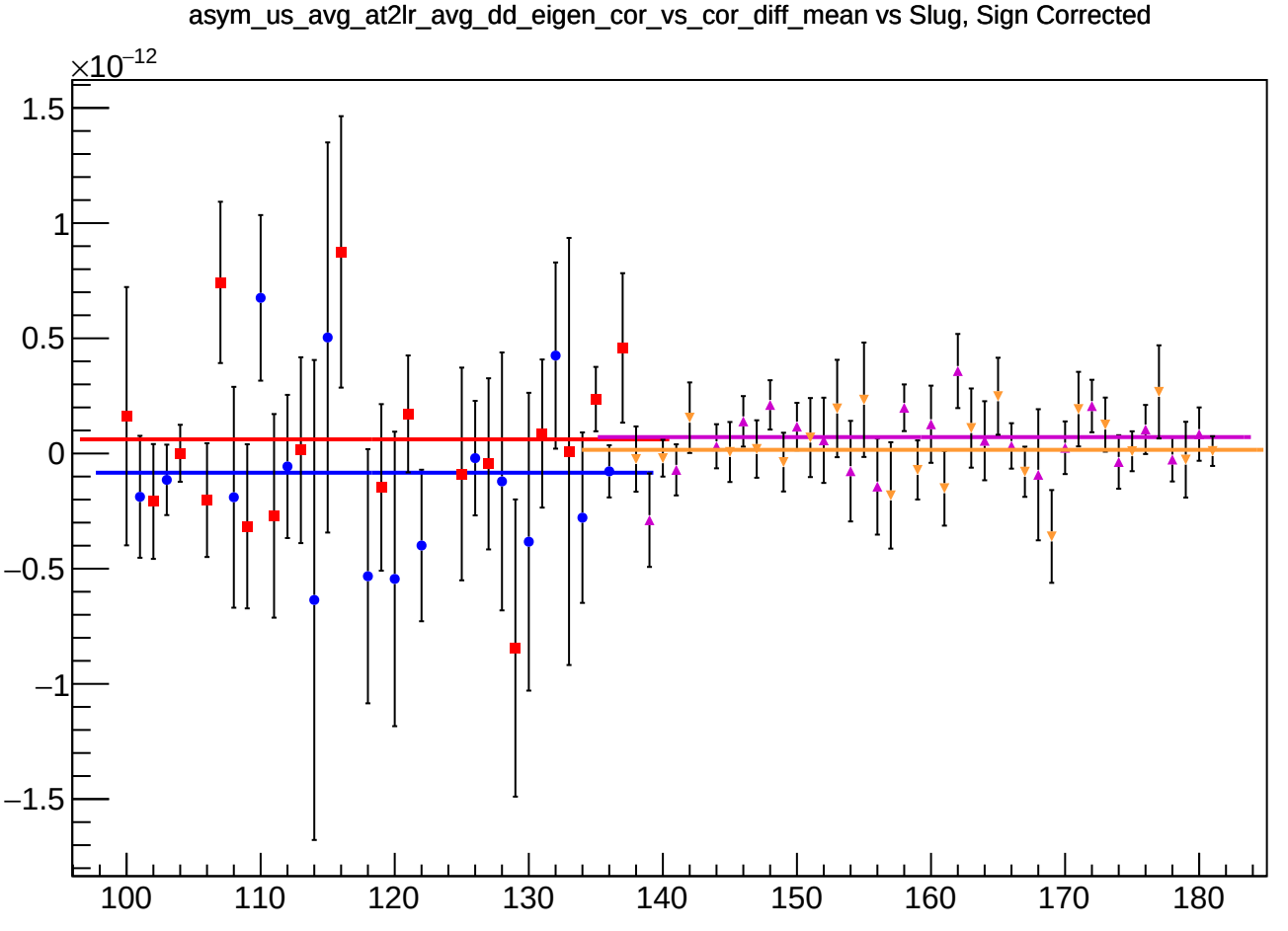
Left: 526.545+/-0.068 $\chi^2$/NDF: 6863817.5/42

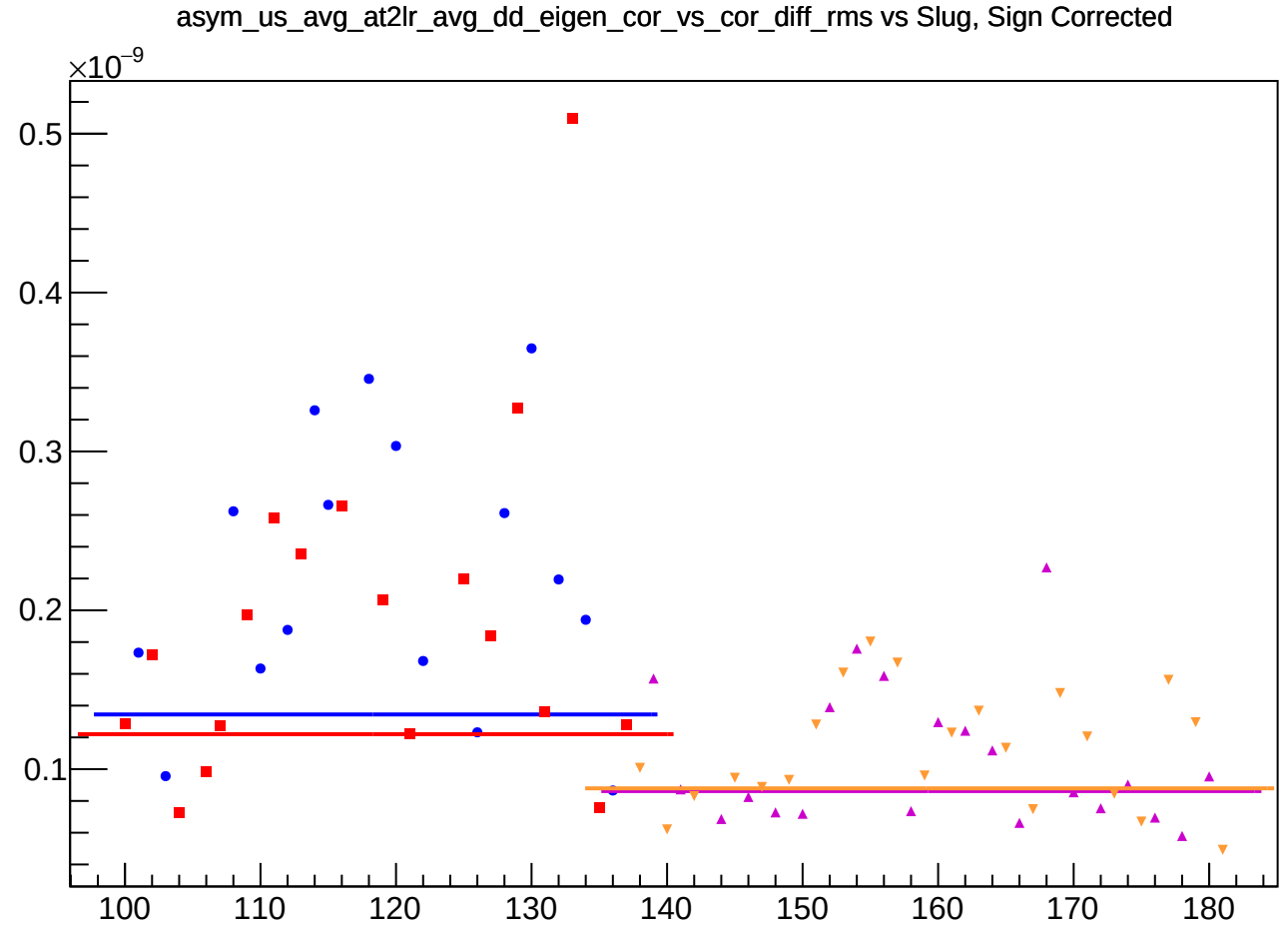
Right: 247.407+/-0.050 $\chi^2$/NDF: 3416901.3/33

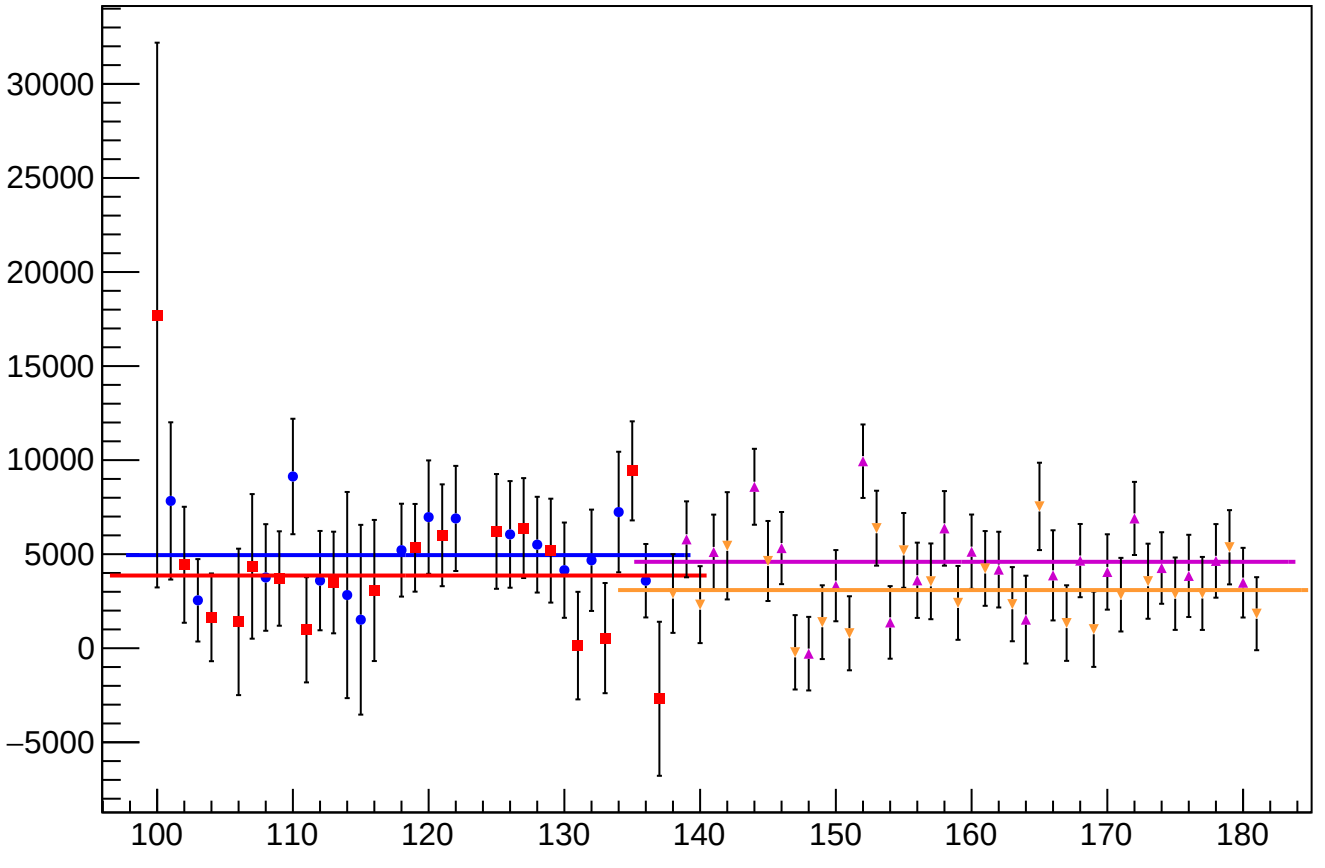
In: 363.038+/-0.059 $\chi^2$/NDF:9026804.4/36

Out: 333.058+/-0.056 $\chi^2$/NDF:12062287.9/39

All: 347.378+/-0.040 $\chi^2$/NDF: 21226132.8/76


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1.5
1
0.5
0
−0.5
−1
−1.5
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 9.7/15
Left Out: 0.000+/-0.000 χ²/NDF:15.3/21
Right Out: 0.000+/-0.000 χ²/NDF: 15.7/17
Left In: 0.000+/-0.000 χ²/NDF:17.7/20
Left: 0.000+/-0.000 χ²/NDF: 35.1/42
Right: -0.000+/-0.000 χ²/NDF: 27.8/33
In: 0.000+/-0.000 χ²/NDF:31.8/36
Out: 0.000+/-0.000 χ²/NDF:31.5/39
All: 0.000+/-0.000 χ²/NDF: 63.9/76


asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1814968.0/15
Left Out: 0.000+/-0.000 χ²/NDF:2888489.9/21
Right Out: 0.000+/-0.000 χ²/NDF: 2003381.5/17
Left In: 0.000+/-0.000 χ²/NDF:2277104.0/20
Left: 0.000+/-0.000 χ²/NDF: 5169546.9/42
Right: 0.000+/-0.000 χ²/NDF: 3852912.0/33
In: 0.000+/-0.000 χ²/NDF:4939042.0/36
Out: 0.000+/-0.000 χ²/NDF:5366026.7/39
All: 0.000+/-0.000 χ²/NDF: 10305412.9/76




Right In: 4950.321+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 3091.257+/-431.948 $\chi^2$/NDF:18.1/21

Right Out: 3865.145+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 4593.685+/-435.665 $\chi^2$/NDF:26.4/20

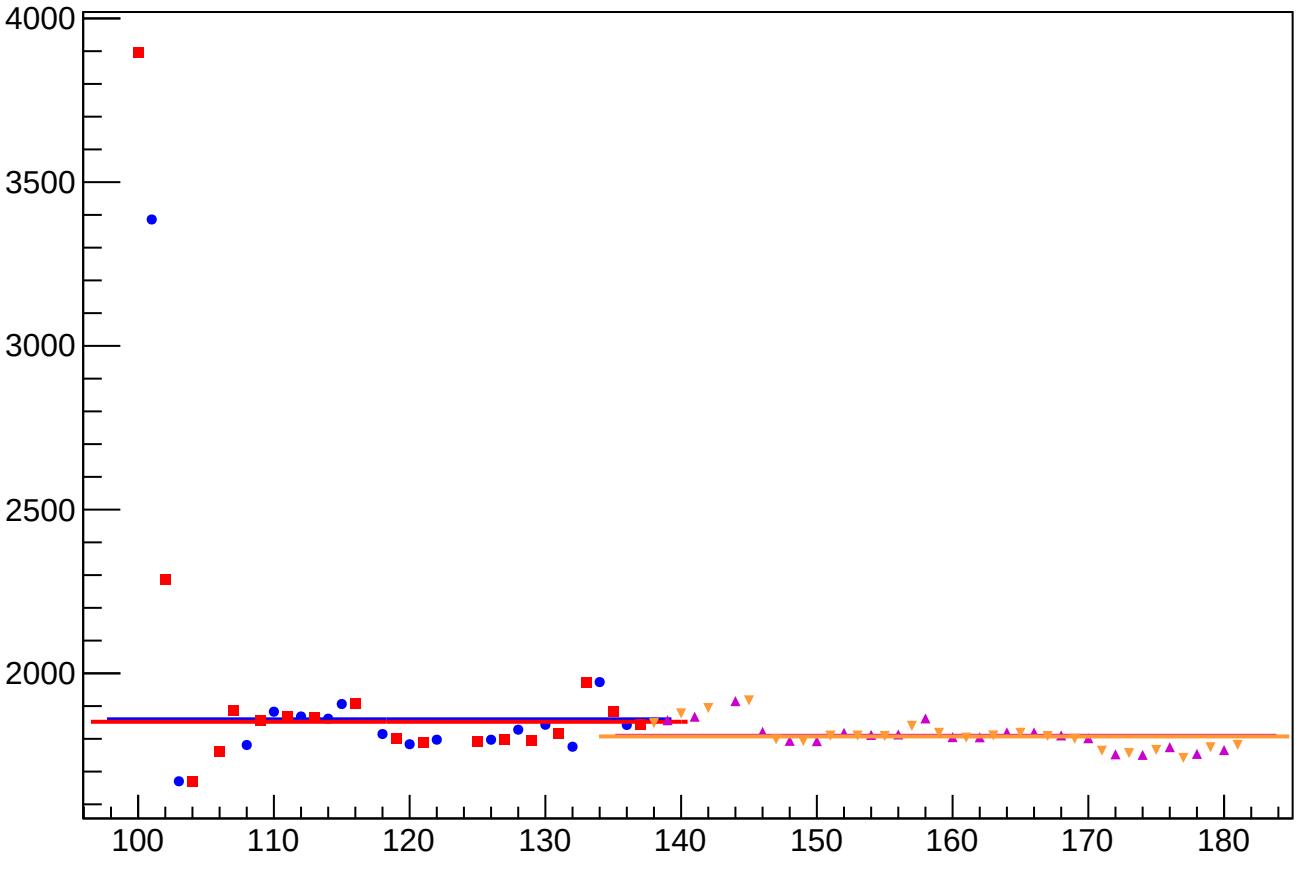
Left: 3836.034+/-306.739 $\chi^2$/NDF: 50.5/42

Right: 4405.277+/-493.103 $\chi^2$/NDF: 24.2/33

In: 4693.477+/-369.721 $\chi^2$/NDF:33.4/36

Out: 3306.545+/-366.981 $\chi^2$/NDF:35.2/39

All: 3994.851+/-260.458 $\chi^2$/NDF: 75.7/76




Right In: 1859.509+/-0.494 $\chi^2$/NDF: 292334.6/15

Left Out: 1807.260+/-0.305 $\chi^2$/NDF:17575.0/21

Right Out: 1852.065+/-0.490 $\chi^2$/NDF: 102212.5/17

Left In: 1809.205+/-0.308 $\chi^2$/NDF:17091.0/20

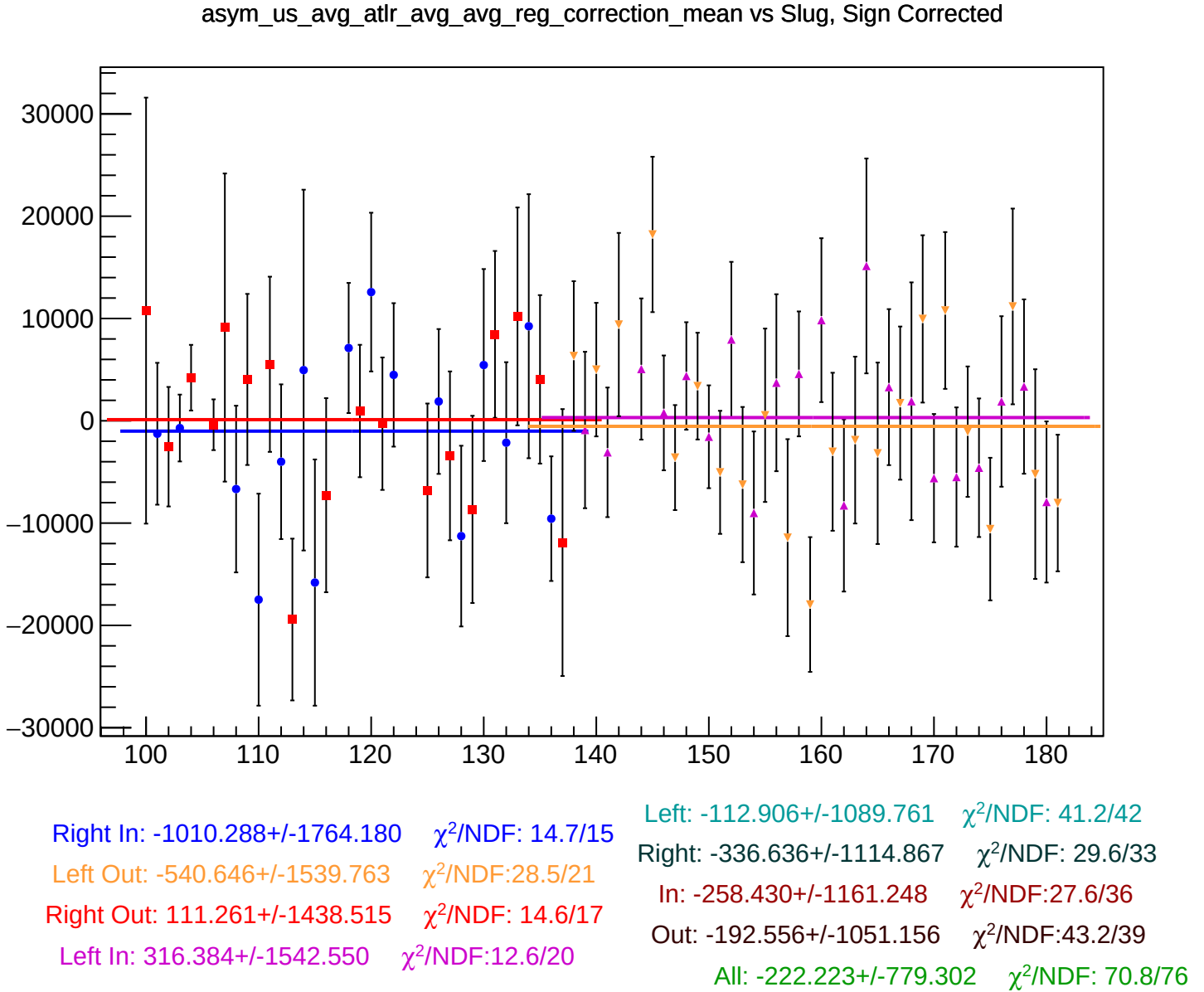
Left: 1808.224+/-0.217 $\chi^2$/NDF: 34686.1/42

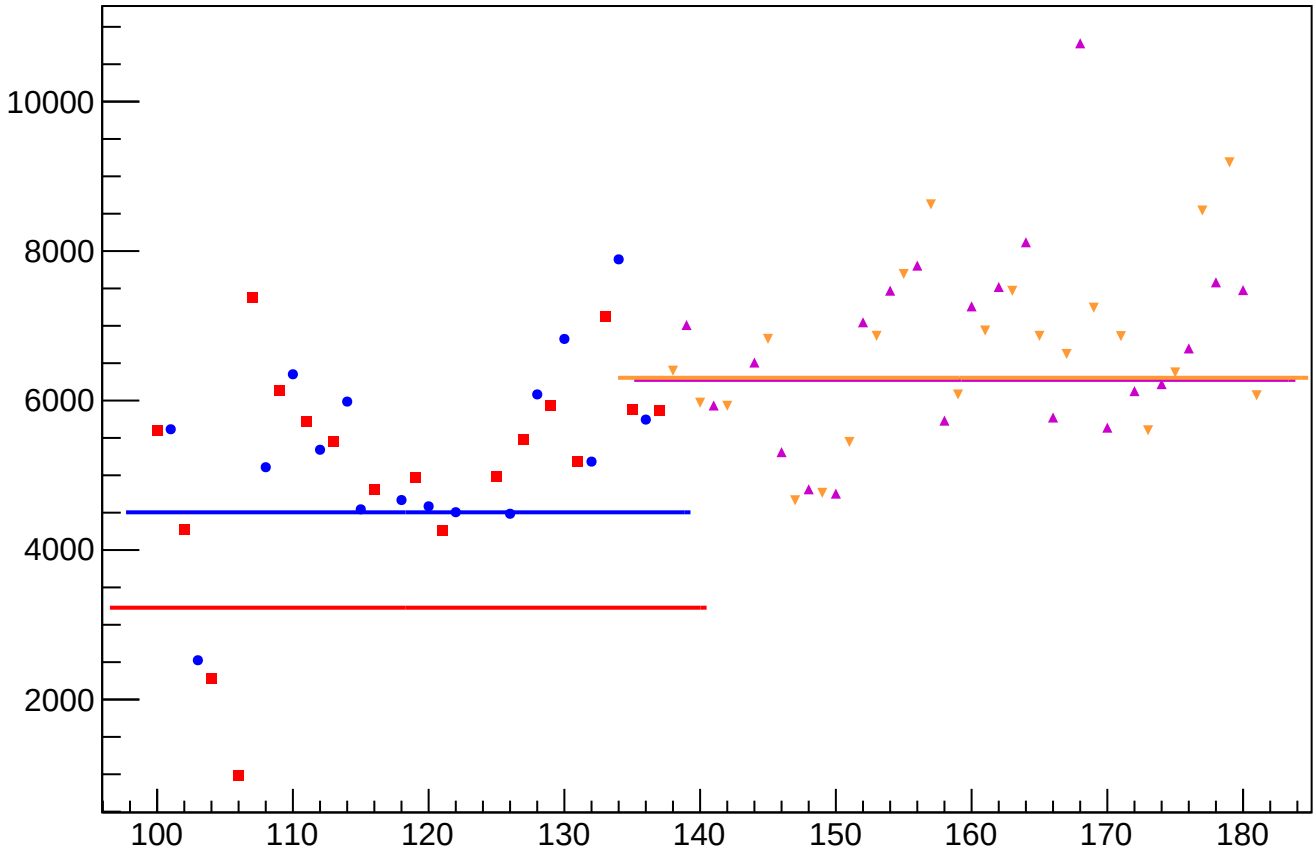
Right: 1855.759+/-0.348 $\chi^2$/NDF: 394661.4/33

In: 1823.281+/-0.261 $\chi^2$/NDF:316886.8/36

Out: 1819.779+/-0.259 $\chi^2$/NDF:125800.0/39

All: 1821.516+/-0.184 $\chi^2$/NDF: 442777.3/76


asym_us_avg_atlr_avg_avg_reg_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: -1010.288+/-1764.180 χ²/NDF: 14.7/15
Left Out: -540.646+/-1539.763 χ²/NDF:28.5/21
Right Out: 111.261+/-1438.515 χ²/NDF: 14.6/17
Left In: 316.384+/-1542.550 χ²/NDF:12.6/20
Left: -112.906+/-1089.761 χ²/NDF: 41.2/42
Right: -336.636+/-1114.867 χ²/NDF: 29.6/33
In: -258.430+/-1161.248 χ²/NDF:27.6/36
Out: -192.556+/-1051.156 χ²/NDF:43.2/39
All: -222.223+/-779.302 χ²/NDF: 70.8/76




Right In: 4504.788+/-1.247 $\chi^2$/NDF: 1321104.9/15

Left Out: 6304.592+/-1.089 $\chi^2$/NDF:1017456.9/21

Right Out: 3228.605+/-1.017 $\chi^2$/NDF: 3956397.6/17

Left In: 6276.646+/-1.091 $\chi^2$/NDF:1132845.8/20

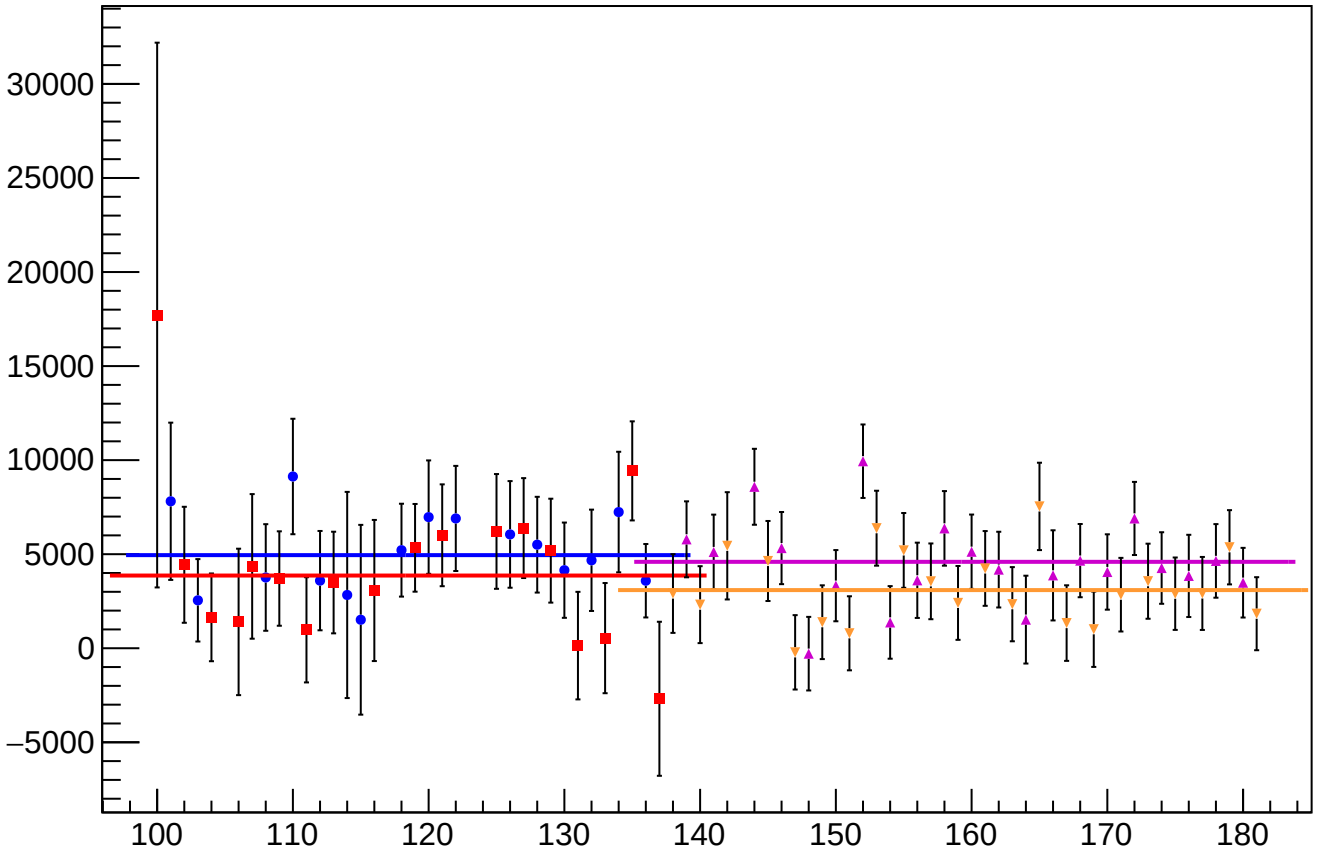
Left: 6290.644+/-0.771 $\chi^2$/NDF: 2150631.5/42

Right: 3738.256+/-0.788 $\chi^2$/NDF: 5906121.0/33

In: 5508.943+/-0.821 $\chi^2$/NDF:3597286.0/36

Out: 4662.150+/-0.743 $\chi^2$/NDF:9235693.6/39

All: 5043.513+/-0.551 $\chi^2$/NDF: 13417515.9/7




Right In: 4949.838+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 3091.199+/-431.948 $\chi^2$/NDF:18.1/21

Right Out: 3864.930+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 4593.699+/-435.665 $\chi^2$/NDF:26.4/20

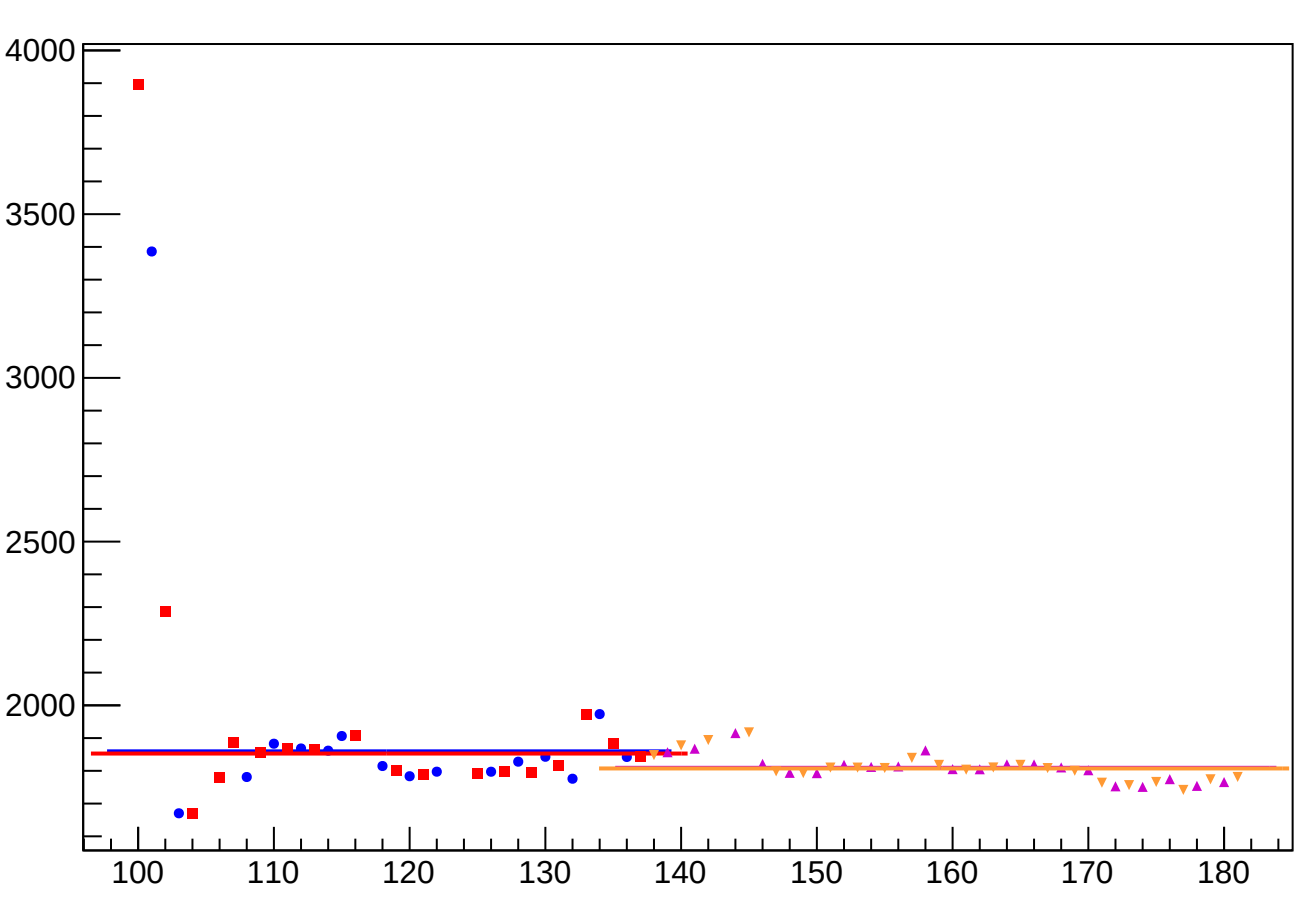
Left: 3836.012+/-306.739 $\chi^2$/NDF: 50.5/42

Right: 4404.929+/-493.103 $\chi^2$/NDF: 24.2/33

In: 4693.352+/-369.721 $\chi^2$/NDF:33.4/36

Out: 3306.444+/-366.981 $\chi^2$/NDF:35.2/39

All: 3994.738+/-260.458 $\chi^2$/NDF: 75.7/76




Right In: 1859.509+/-0.494 $\chi^2$/NDF: 292336.5/15

Left Out: 1807.260+/-0.305 $\chi^2$/NDF:17575.0/21

Right Out: 1852.770+/-0.491 $\chi^2$/NDF: 101750.5/17

Left In: 1809.205+/-0.308 $\chi^2$/NDF:17091.0/20

Left: 1808.224+/-0.217 $\chi^2$/NDF: 34686.1/42

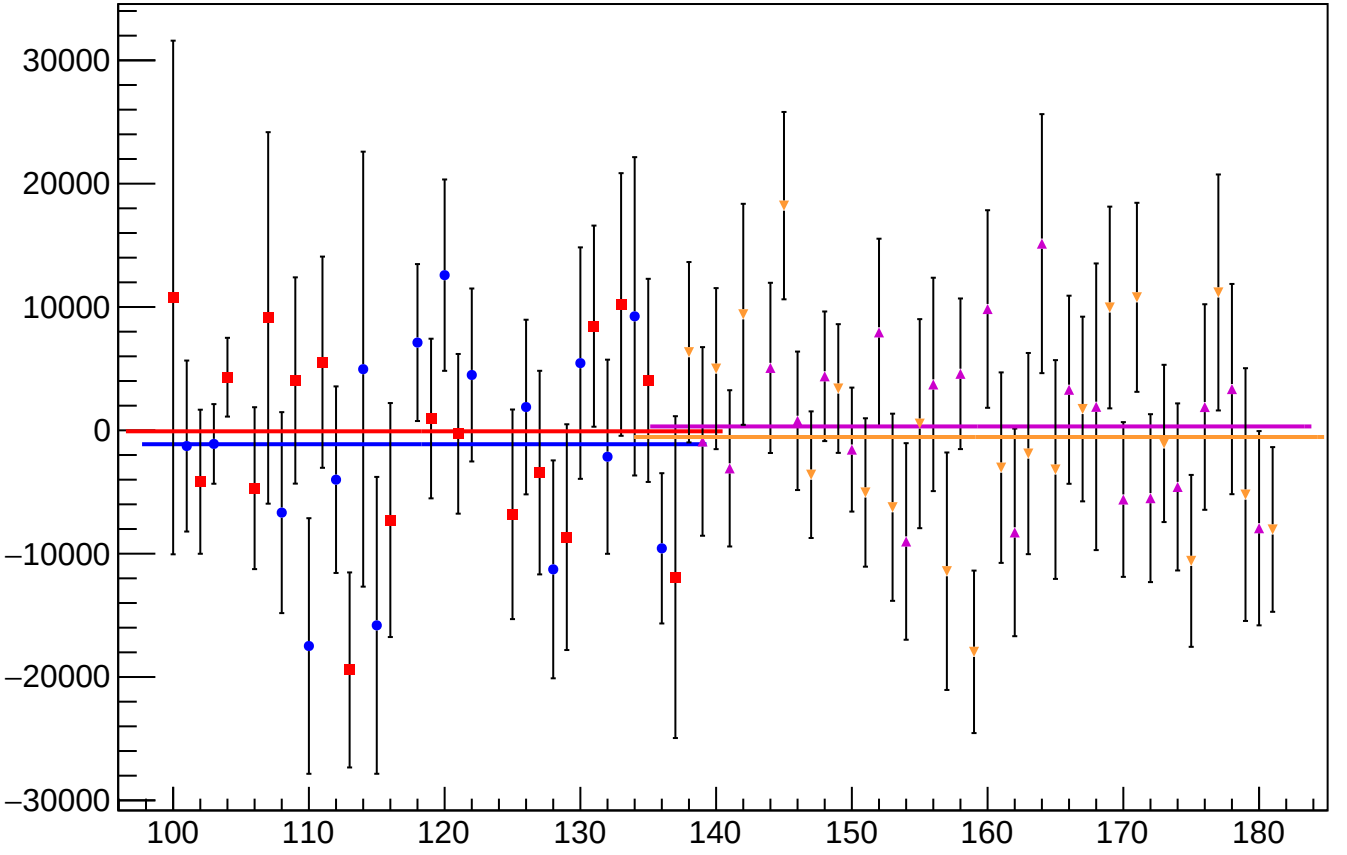
Right: 1856.115+/-0.348 $\chi^2$/NDF: 394180.6/33

In: 1823.281+/-0.261 $\chi^2$/NDF:316888.6/36

Out: 1819.970+/-0.259 $\chi^2$/NDF:125526.0/39

All: 1821.612+/-0.184 $\chi^2$/NDF: 442495.5/76

asym_us_avg_atlr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -1125.567+/-1757.876 $\chi^2$/NDF: 14.7/15

Left Out: -540.656+/-1539.761 $\chi^2$/NDF:28.5/21

Right Out: -78.270+/-1702.444 $\chi^2$/NDF: 15.5/17

Left In: 316.469+/-1542.550 $\chi^2$/NDF:12.6/20

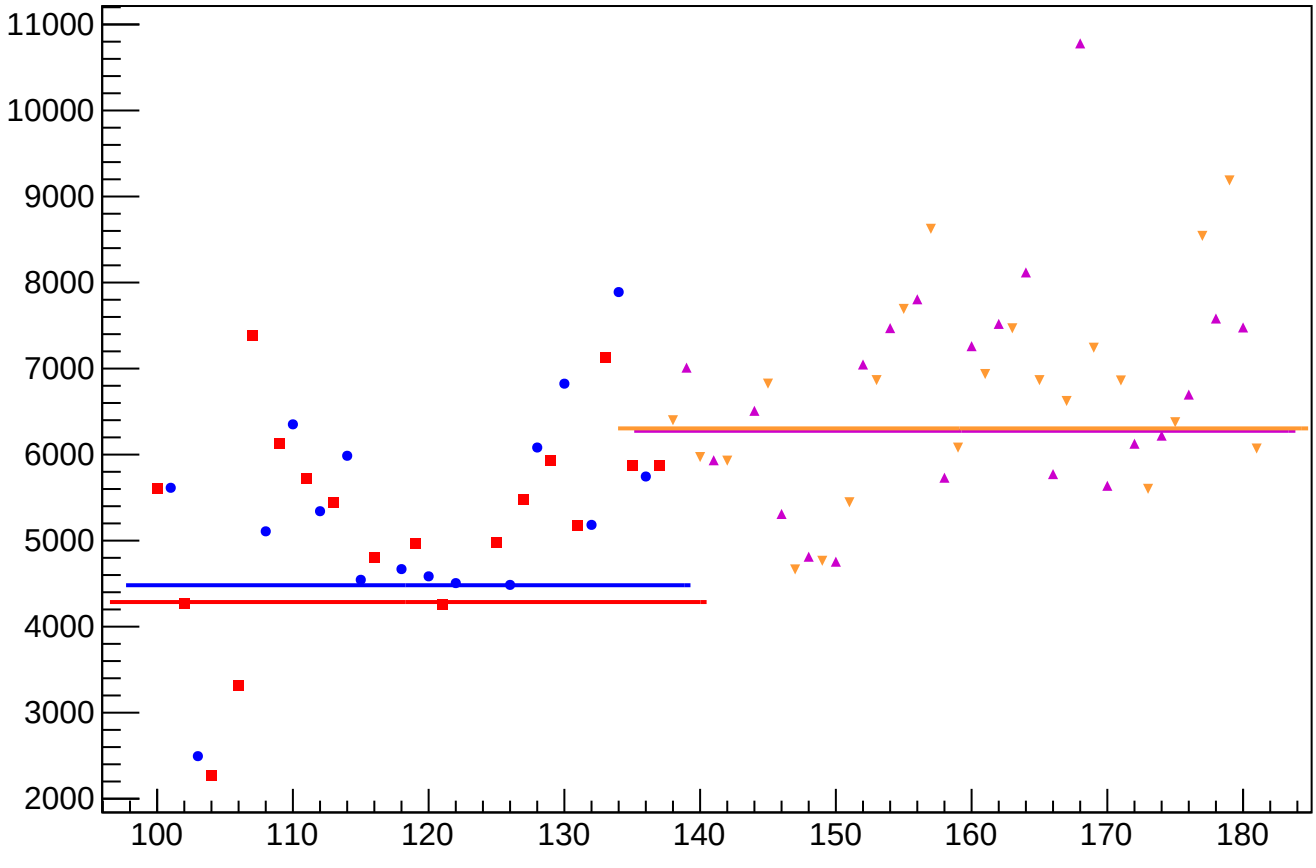
Left: -112.869+/-1089.760 $\chi^2$/NDF: 41.2/42

Right: -585.146+/-1222.937 $\chi^2$/NDF: 30.5/33

In: -310.866+/-1159.445 $\chi^2$/NDF:27.7/36

Out: -332.606+/-1141.970 $\chi^2$/NDF:44.0/39

All: -321.901+/-813.603 $\chi^2$/NDF: 71.7/76




Right In: 4481.518+/-1.243 $\chi^2$/NDF: 1362255.0/15

Left Out: 6304.587+/-1.089 $\chi^2$/NDF:1017468.2/21

Right Out: 4286.125+/-1.204 $\chi^2$/NDF: 1549852.7/17

Left In: 6276.645+/-1.091 $\chi^2$/NDF:1132852.4/20

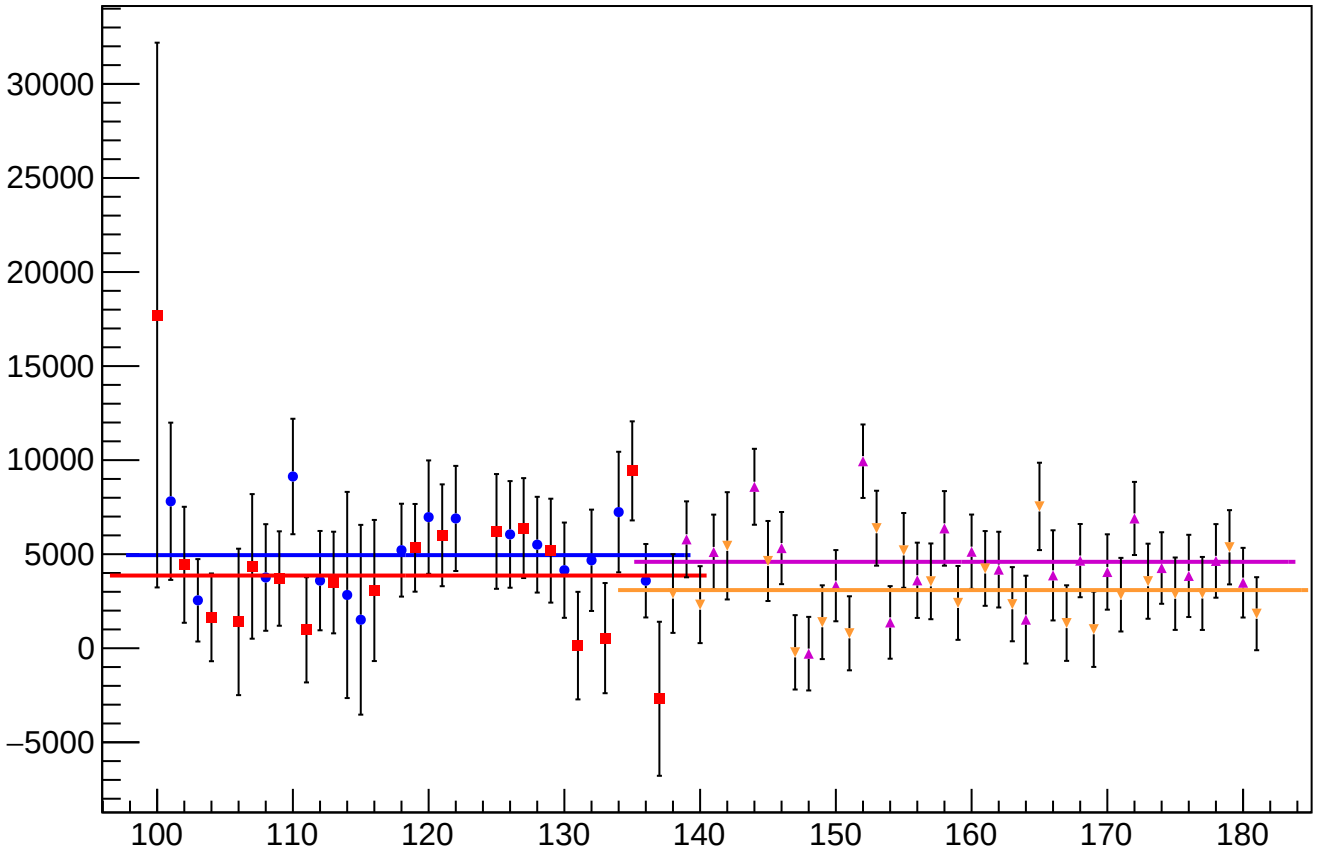
Left: 6290.641+/-0.771 $\chi^2$/NDF: 2150649.2/42

Right: 4380.692+/-0.865 $\chi^2$/NDF: 2924858.4/33

In: 5495.703+/-0.820 $\chi^2$/NDF:3673434.2/36

Out: 5396.381+/-0.807 $\chi^2$/NDF:4113742.9/39

All: 5445.288+/-0.575 $\chi^2$/NDF: 7794626.7/76




Right In: 4949.838+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 3091.199+/-431.948 $\chi^2$/NDF:18.1/21

Right Out: 3864.930+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 4593.699+/-435.665 $\chi^2$/NDF:26.4/20

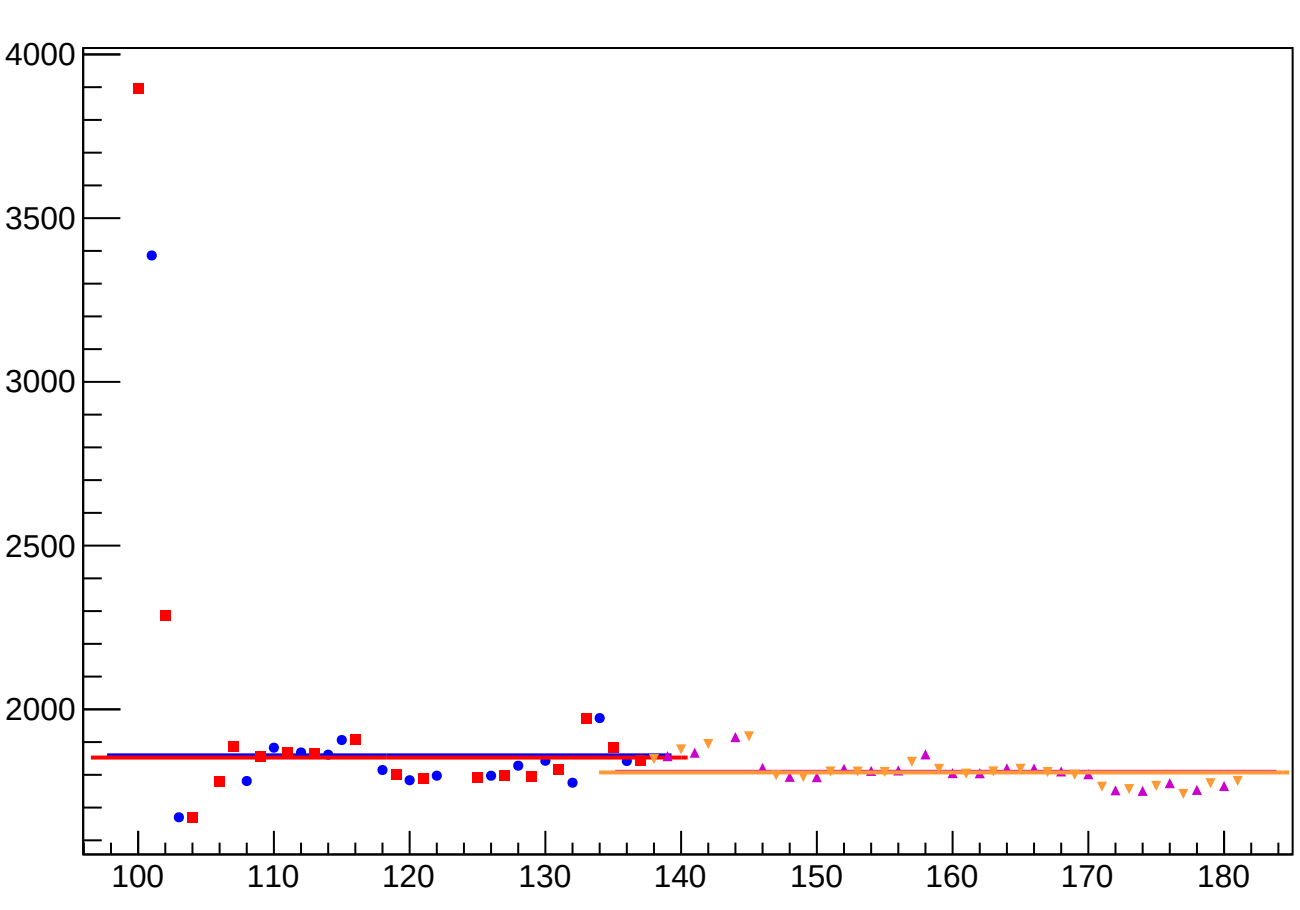
Left: 3836.012+/-306.739 $\chi^2$/NDF: 50.5/42

Right: 4404.929+/-493.103 $\chi^2$/NDF: 24.2/33

In: 4693.352+/-369.721 $\chi^2$/NDF:33.4/36

Out: 3306.444+/-366.981 $\chi^2$/NDF:35.2/39

All: 3994.738+/-260.458 $\chi^2$/NDF: 75.7/76




Right In: 1859.509+/-0.494 $\chi^2$/NDF: 292336.5/15

Left Out: 1807.260+/-0.305 $\chi^2$/NDF:17575.0/21

Right Out: 1852.770+/-0.491 $\chi^2$/NDF: 101750.5/17

Left In: 1809.205+/-0.308 $\chi^2$/NDF:17091.0/20

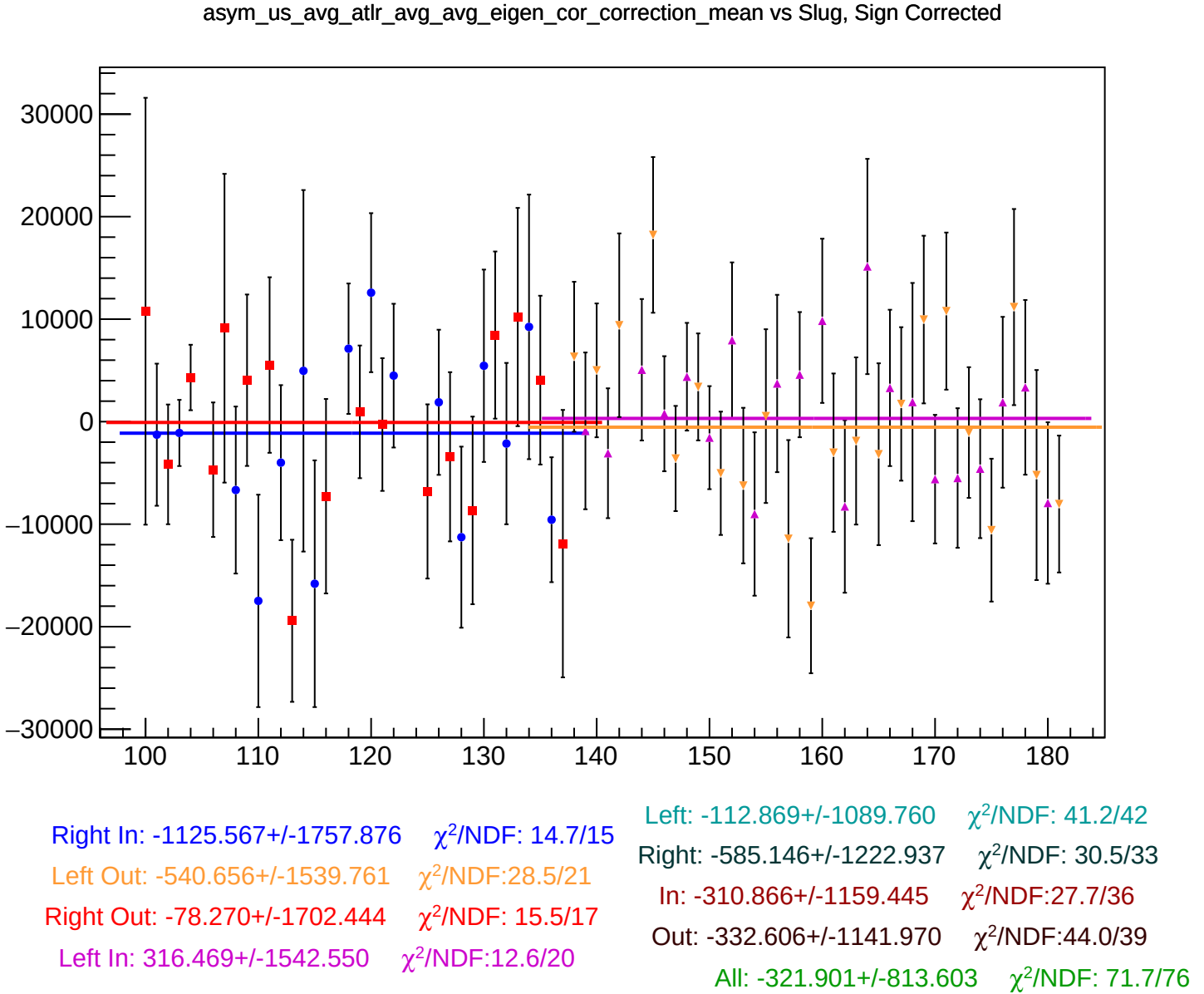
Left: 1808.224+/-0.217 $\chi^2$/NDF: 34686.1/42

Right: 1856.115+/-0.348 $\chi^2$/NDF: 394180.6/33

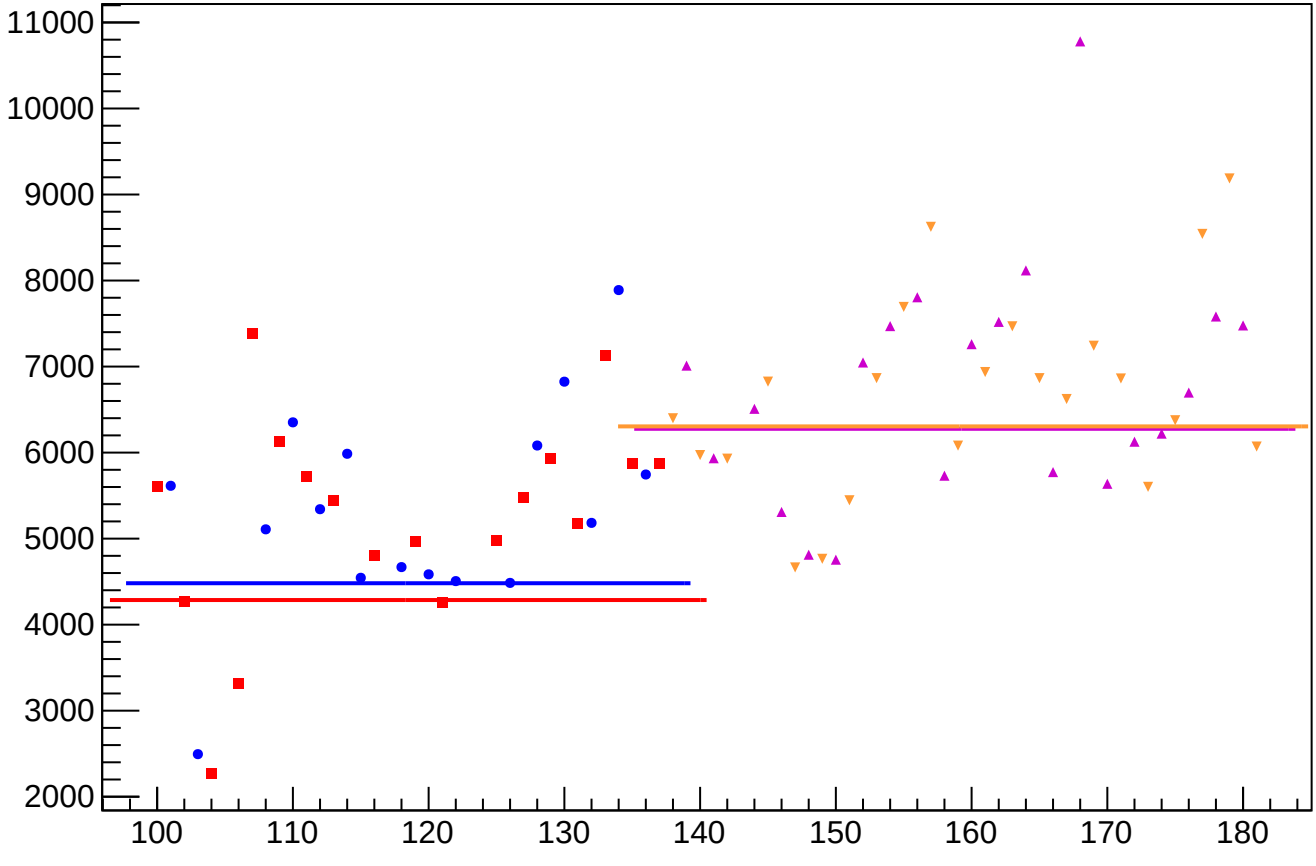
In: 1823.281+/-0.261 $\chi^2$/NDF:316888.6/36

Out: 1819.970+/-0.259 $\chi^2$/NDF:125526.0/39

All: 1821.612+/-0.184 $\chi^2$/NDF: 442495.5/76


asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
100
110
120
130
140
150
160
170
180
Right In: -1125.567+/-1757.876 χ²/NDF: 14.7/15
Left Out: -540.656+/-1539.761 χ²/NDF:28.5/21
Right Out: -78.270+/-1702.444 χ²/NDF: 15.5/17
Left In: 316.469+/-1542.550 χ²/NDF:12.6/20
Left: -112.869+/-1089.760 χ²/NDF: 41.2/42
Right: -585.146+/-1222.937 χ²/NDF: 30.5/33
In: -310.866+/-1159.445 χ²/NDF:27.7/36
Out: -332.606+/-1141.970 χ²/NDF:44.0/39
All: -321.901+/-813.603 χ²/NDF: 71.7/76

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 4481.518+/-1.243 $\chi^2$/NDF: 1362255.0/15

Left Out: 6304.587+/-1.089 $\chi^2$/NDF:1017468.2/21

Right Out: 4286.125+/-1.204 $\chi^2$/NDF: 1549852.7/17

Left In: 6276.645+/-1.091 $\chi^2$/NDF:1132852.4/20

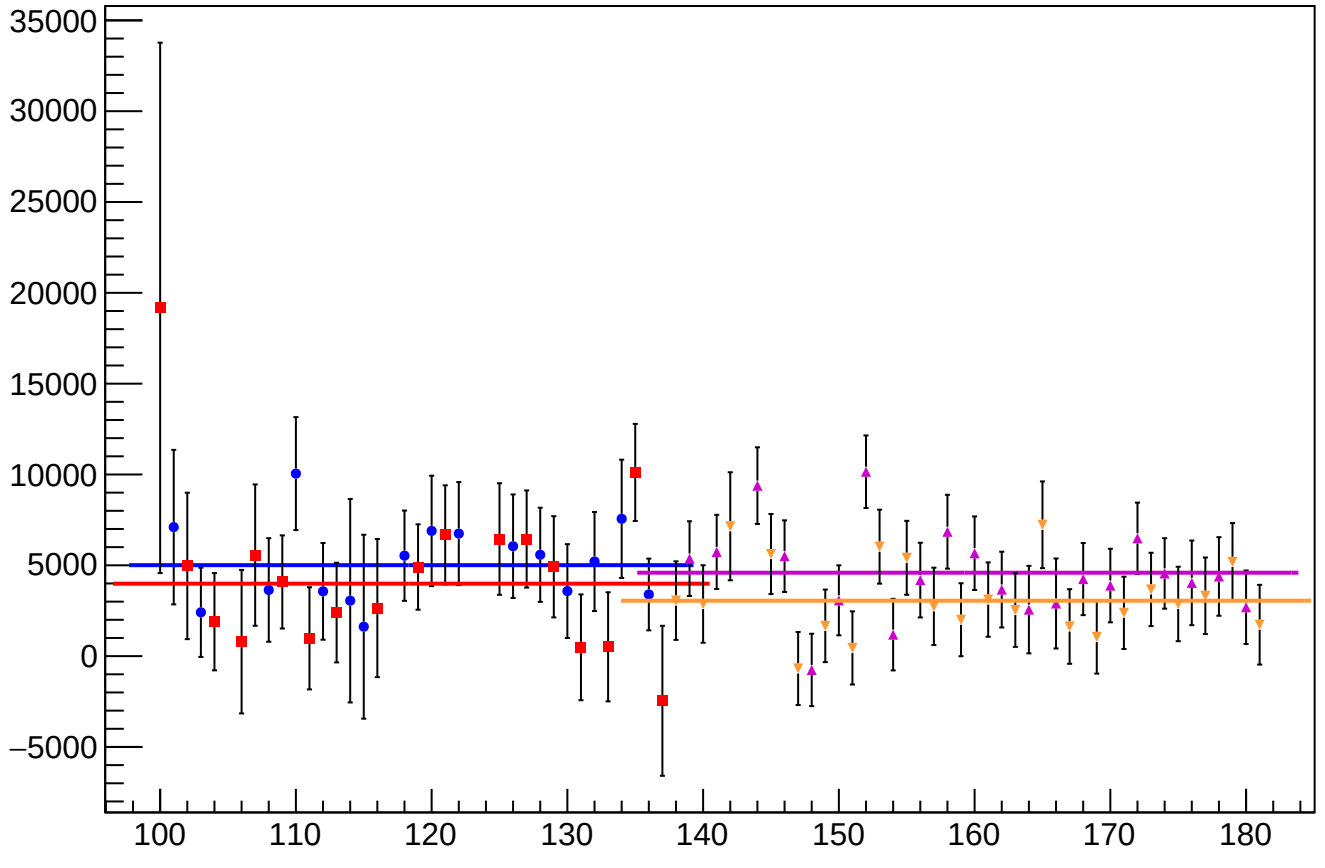
Left: 6290.641+/-0.771 $\chi^2$/NDF: 2150649.2/42

Right: 4380.692+/-0.865 $\chi^2$/NDF: 2924858.4/33

In: 5495.703+/-0.820 $\chi^2$/NDF:3673434.2/36

Out: 5396.381+/-0.807 $\chi^2$/NDF:4113742.9/39

All: 5445.288+/-0.575 $\chi^2$/NDF: 7794626.7/76




Right In: 5007.315+/-714.061 $\chi^2$/NDF: 7.7/15

Left Out: 3050.779+/-448.325 $\chi^2$/NDF:18.8/21

Right Out: 3989.193+/-719.024 $\chi^2$/NDF: 17.4/17

Left In: 4592.899+/-449.964 $\chi^2$/NDF:29.4/20

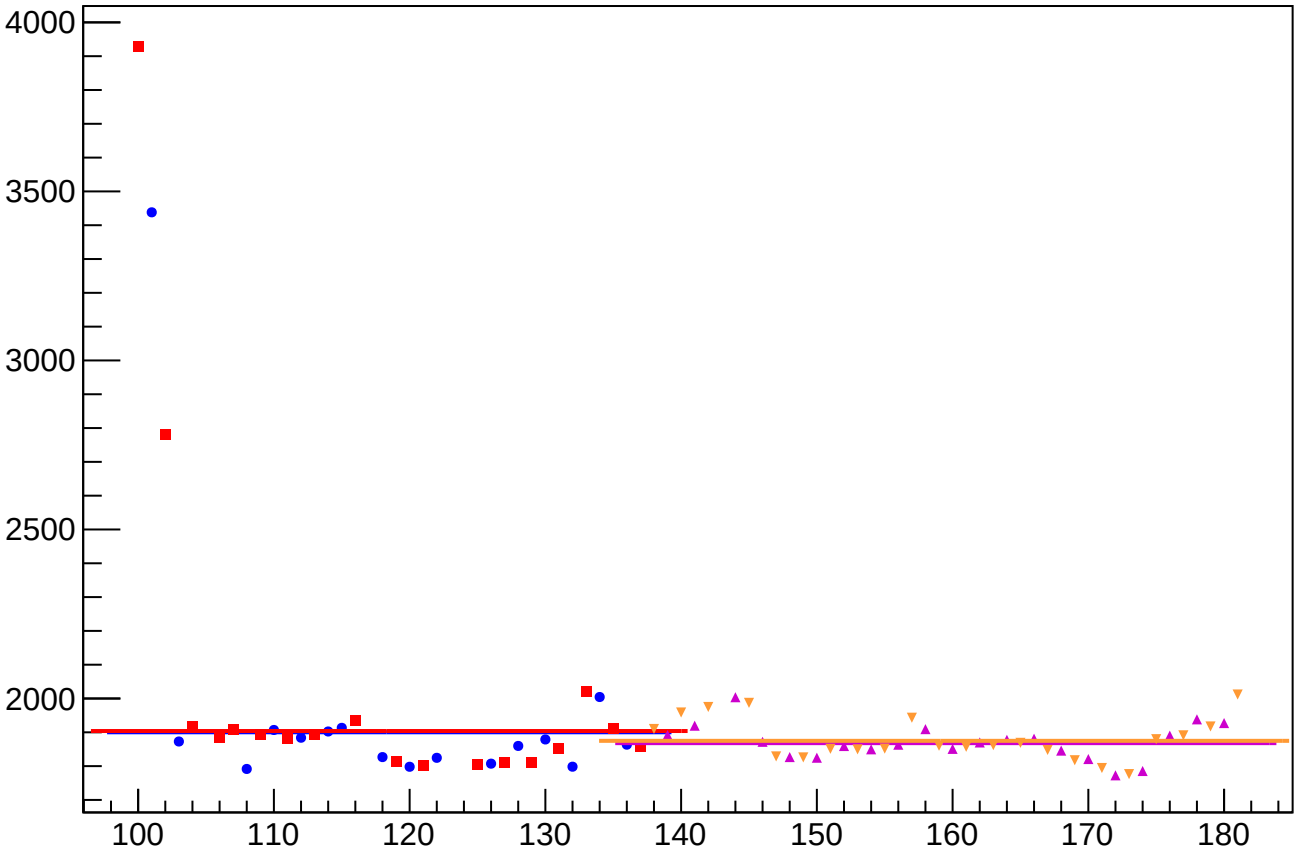
Left: 3819.025+/-317.591 $\chi^2$/NDF: 54.1/42

Right: 4501.780+/-506.663 $\chi^2$/NDF: 26.0/33

In: 4710.686+/-380.685 $\chi^2$/NDF:37.3/36

Out: 3313.479+/-380.432 $\chi^2$/NDF:37.4/39

All: 4011.617+/-269.095 $\chi^2$/NDF: 81.4/76




Right In: 1900.111+/-0.505 $\chi^2$/NDF: 278448.2/15

Left Out: 1874.811+/-0.317 $\chi^2$/NDF:35257.9/21

Right Out: 1903.827+/-0.508 $\chi^2$/NDF: 150115.8/17

Left In: 1867.973+/-0.318 $\chi^2$/NDF:26618.5/20

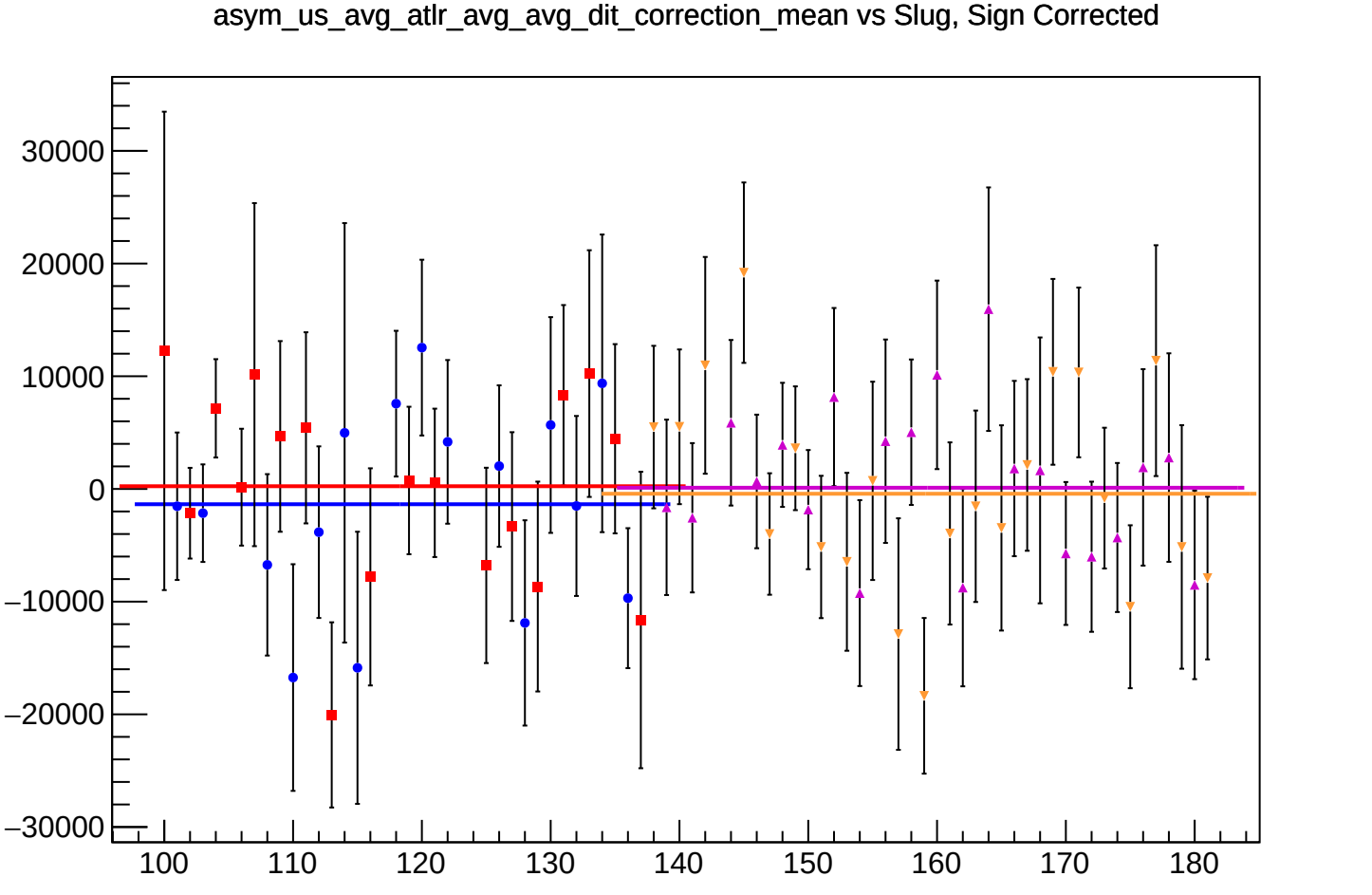
Left: 1871.404+/-0.225 $\chi^2$/NDF: 62108.2/42

Right: 1901.958+/-0.358 $\chi^2$/NDF: 428591.0/33

In: 1877.107+/-0.269 $\chi^2$/NDF:307966.7/36

Out: 1882.946+/-0.269 $\chi^2$/NDF:187722.6/39

All: 1880.030+/-0.190 $\chi^2$/NDF: 495924.8/76




Right In: -1356.615+/-1895.990 $\chi^2$/NDF: 14.7/15

Left Out: -427.801+/-1597.479 $\chi^2$/NDF:27.9/21

Right Out: 241.153+/-1712.681 $\chi^2$/NDF: 15.7/17

Left In: 106.351+/-1599.125 $\chi^2$/NDF:12.6/20

Left: -161.000+/-1130.170 $\chi^2$/NDF: 40.5/42

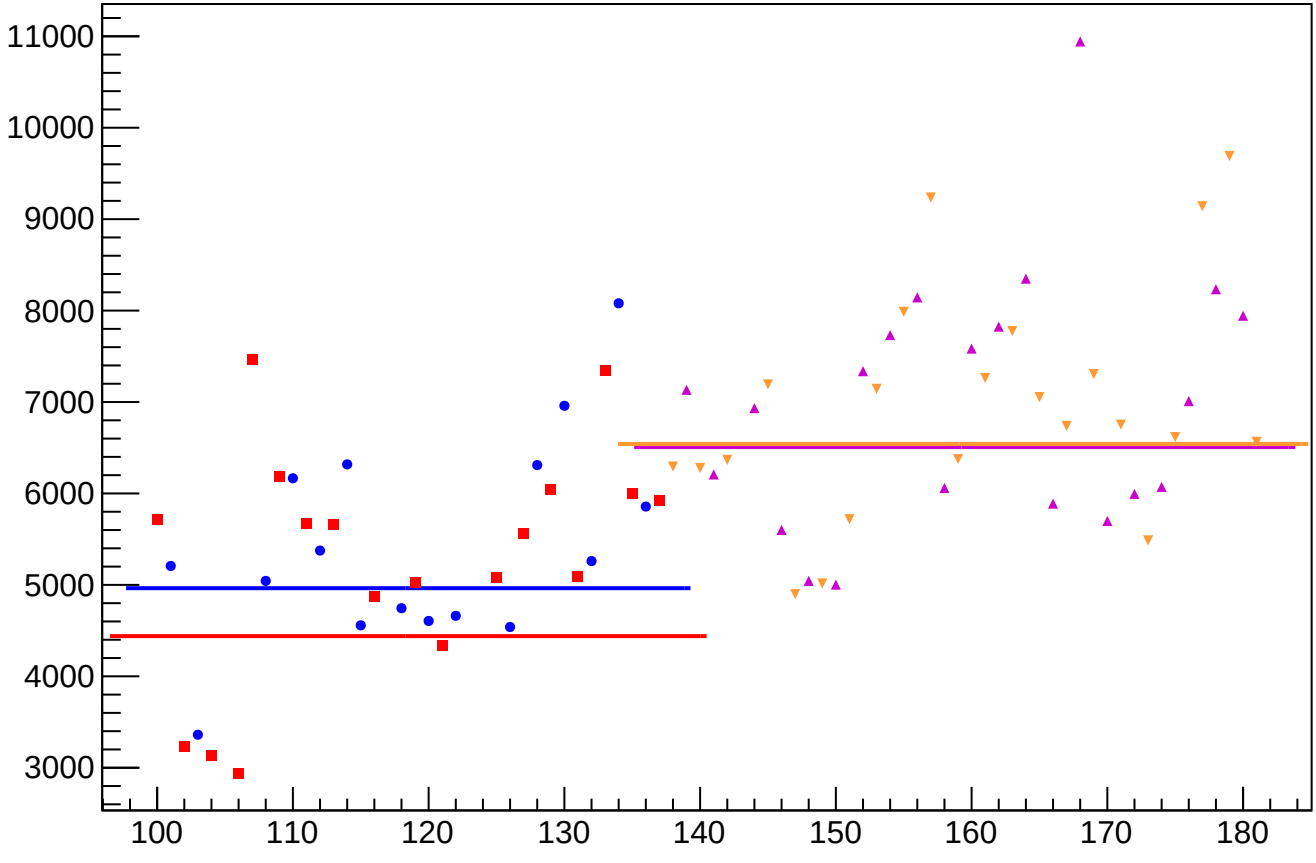
Right: -476.778+/-1270.927 $\chi^2$/NDF: 30.8/33

In: -501.762+/-1222.393 $\chi^2$/NDF:27.6/36

Out: -116.577+/-1168.194 $\chi^2$/NDF:43.7/39

All: -300.441+/-844.549 $\chi^2$/NDF: 71.4/76

asym_us_avg_atlr_avg_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 4963.998+/-1.341 $\chi^2$/NDF: 627377.0/15

Left Out: 6541.152+/-1.130 $\chi^2$/NDF:1038607.6/21

Right Out: 4439.675+/-1.211 $\chi^2$/NDF: 1158510.1/17

Left In: 6507.142+/-1.131 $\chi^2$/NDF:1135682.5/20

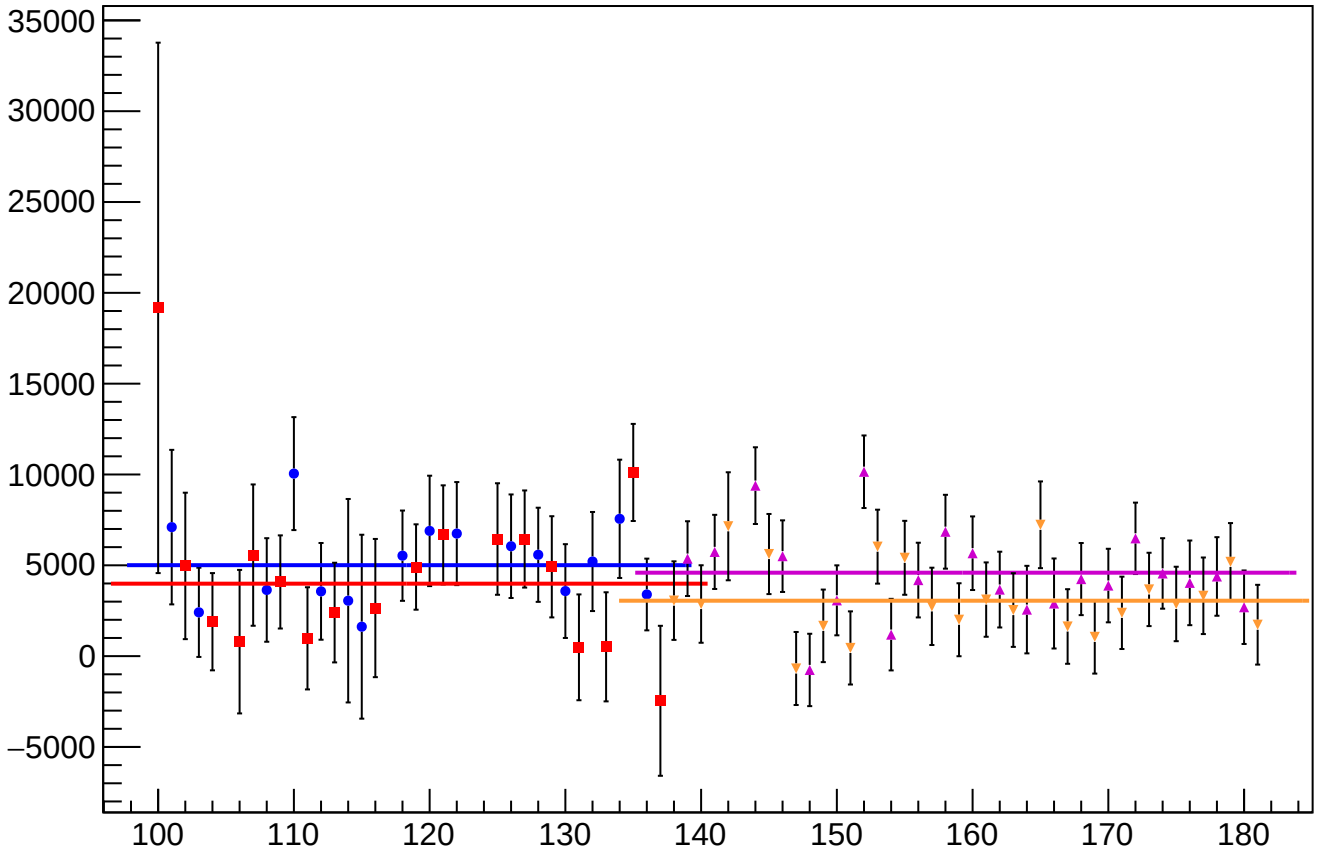
Left: 6524.164+/-0.799 $\chi^2$/NDF: 2174742.9/42

Right: 4675.271+/-0.899 $\chi^2$/NDF: 1870112.9/33

In: 5865.702+/-0.864 $\chi^2$/NDF:2537214.8/36

Out: 5563.461+/-0.826 $\chi^2$/NDF:3807339.0/39

All: 5707.733+/-0.597 $\chi^2$/NDF: 6408458.5/76




Right In: 5007.314+/-714.061 $\chi^2$/NDF: 7.7/15

Left Out: 3050.773+/-448.325 $\chi^2$/NDF:18.8/21

Right Out: 3989.192+/-719.024 $\chi^2$/NDF: 17.4/17

Left In: 4592.901+/-449.964 $\chi^2$/NDF:29.4/20

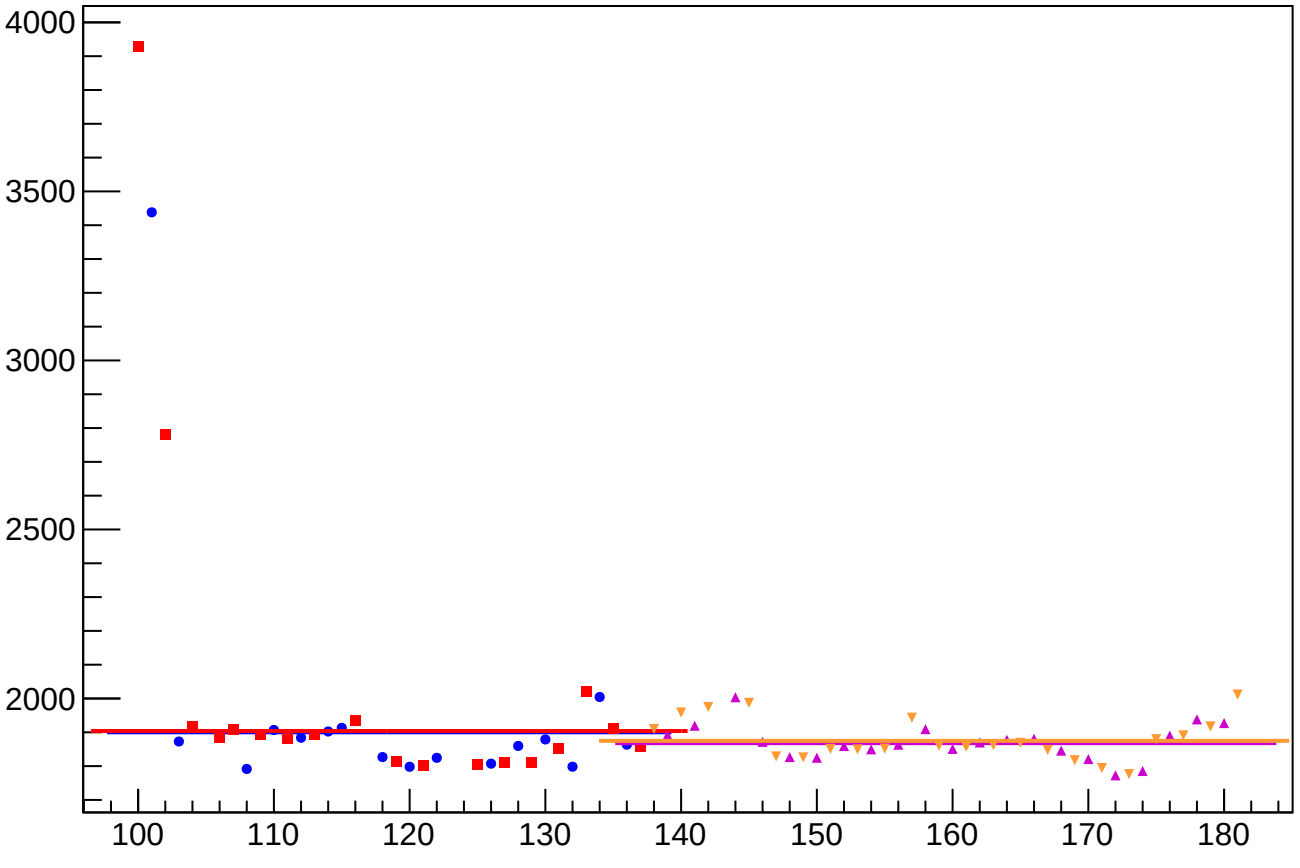
Left: 3819.023+/-317.592 $\chi^2$/NDF: 54.1/42

Right: 4501.779+/-506.663 $\chi^2$/NDF: 26.0/33

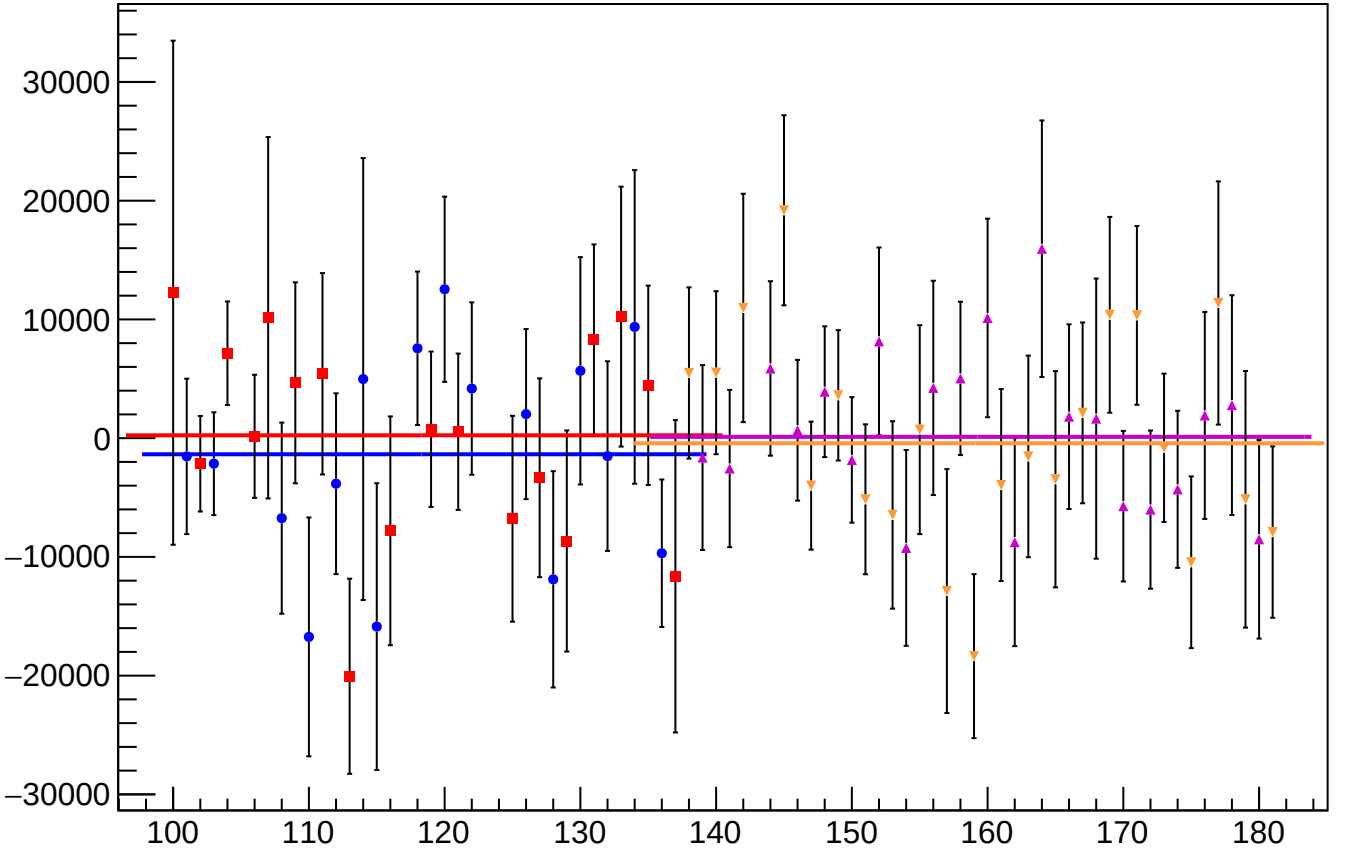
In: 4710.687+/-380.685 $\chi^2$/NDF:37.3/36

Out: 3313.475+/-380.432 $\chi^2$/NDF:37.4/39

All: 4011.616+/-269.096 $\chi^2$/NDF: 81.4/76


eigen_dit_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected
4000
3500
3000
2500
2000
100
110
120
130
140
150
160
170
180
Right In: 1900.111+/-0.505 χ²/NDF: 278448.5/15
Left Out: 1874.812+/-0.317 χ²/NDF:35258.9/21
Right Out: 1903.826+/-0.508 χ²/NDF: 150115.1/17
Left In: 1867.974+/-0.318 χ²/NDF:26619.7/20
Left: 1871.406+/-0.225 χ²/NDF: 62110.4/42
Right: 1901.958+/-0.358 χ²/NDF: 428590.5/33
In: 1877.108+/-0.269 χ²/NDF:307967.8/36
Out: 1882.947+/-0.269 χ²/NDF:187722.6/39
All: 1880.031+/-0.190 χ²/NDF: 495925.8/76

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1356.604+/-1895.985 $\chi^2$/NDF: 14.7/15

Left Out: -427.807+/-1597.482 $\chi^2$/NDF:27.9/21

Right Out: 241.155+/-1712.677 $\chi^2$/NDF: 15.7/17

Left In: 106.352+/-1599.127 $\chi^2$/NDF:12.6/20

Left: -161.003+/-1130.172 $\chi^2$/NDF: 40.5/42

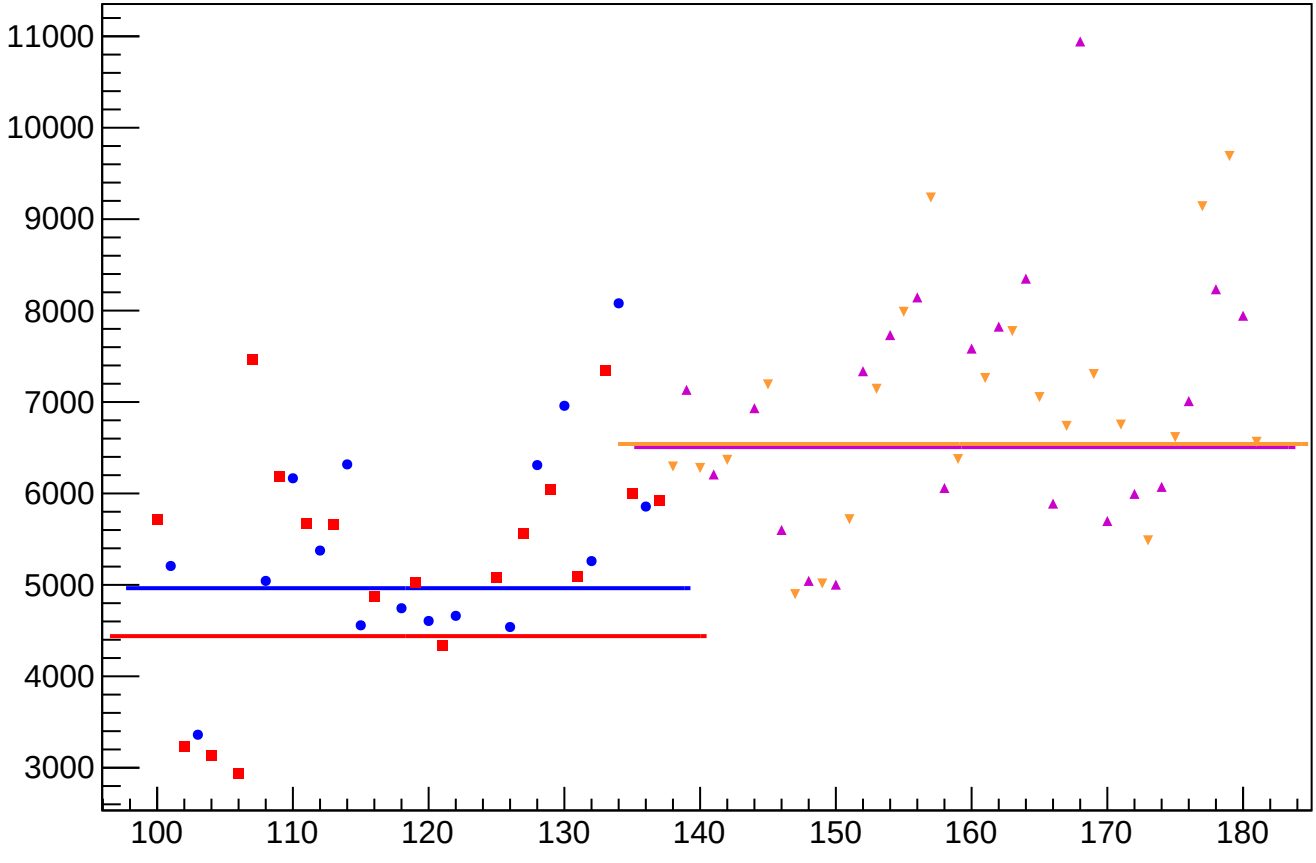
Right: -476.773+/-1270.924 $\chi^2$/NDF: 30.8/33

In: -501.760+/-1222.393 $\chi^2$/NDF:27.6/36

Out: -116.578+/-1168.193 $\chi^2$/NDF:43.7/39

All: -300.441+/-844.548 $\chi^2$/NDF: 71.4/76

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 4963.985+/-1.341 $\chi^2$/NDF: 627379.5/15

Left Out: 6541.162+/-1.130 $\chi^2$/NDF:1038610.1/21

Right Out: 4439.663+/-1.211 $\chi^2$/NDF: 1158509.7/17

Left In: 6507.153+/-1.131 $\chi^2$/NDF:1135685.1/20

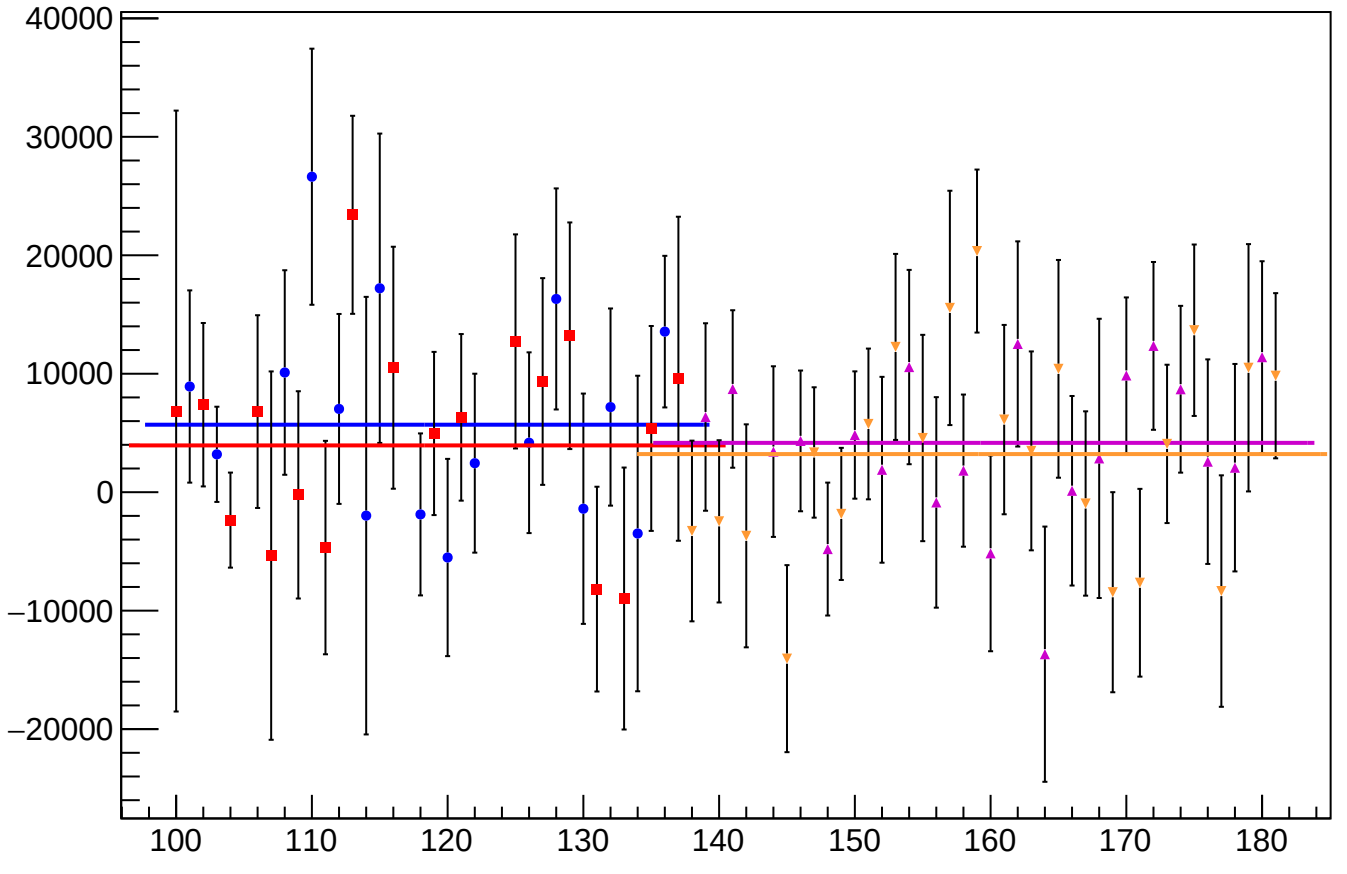
Left: 6524.175+/-0.799 $\chi^2$/NDF: 2174748.0/42

Right: 4675.259+/-0.899 $\chi^2$/NDF: 1870114.9/33

In: 5865.699+/-0.864 $\chi^2$/NDF:2537244.9/36

Out: 5563.457+/-0.826 $\chi^2$/NDF:3807376.8/39

All: 5707.729+/-0.597 $\chi^2$/NDF: 6408527.0/76




Right In: 5697.218+/-1959.214 $\chi^2$/NDF: 12.6/15

Left Out: 3217.461+/-1608.921 $\chi^2$/NDF:26.5/21

Right Out: 3949.394+/-1920.582 $\chi^2$/NDF: 16.1/17

Left In: 4164.282+/-1611.871 $\chi^2$/NDF:12.9/20

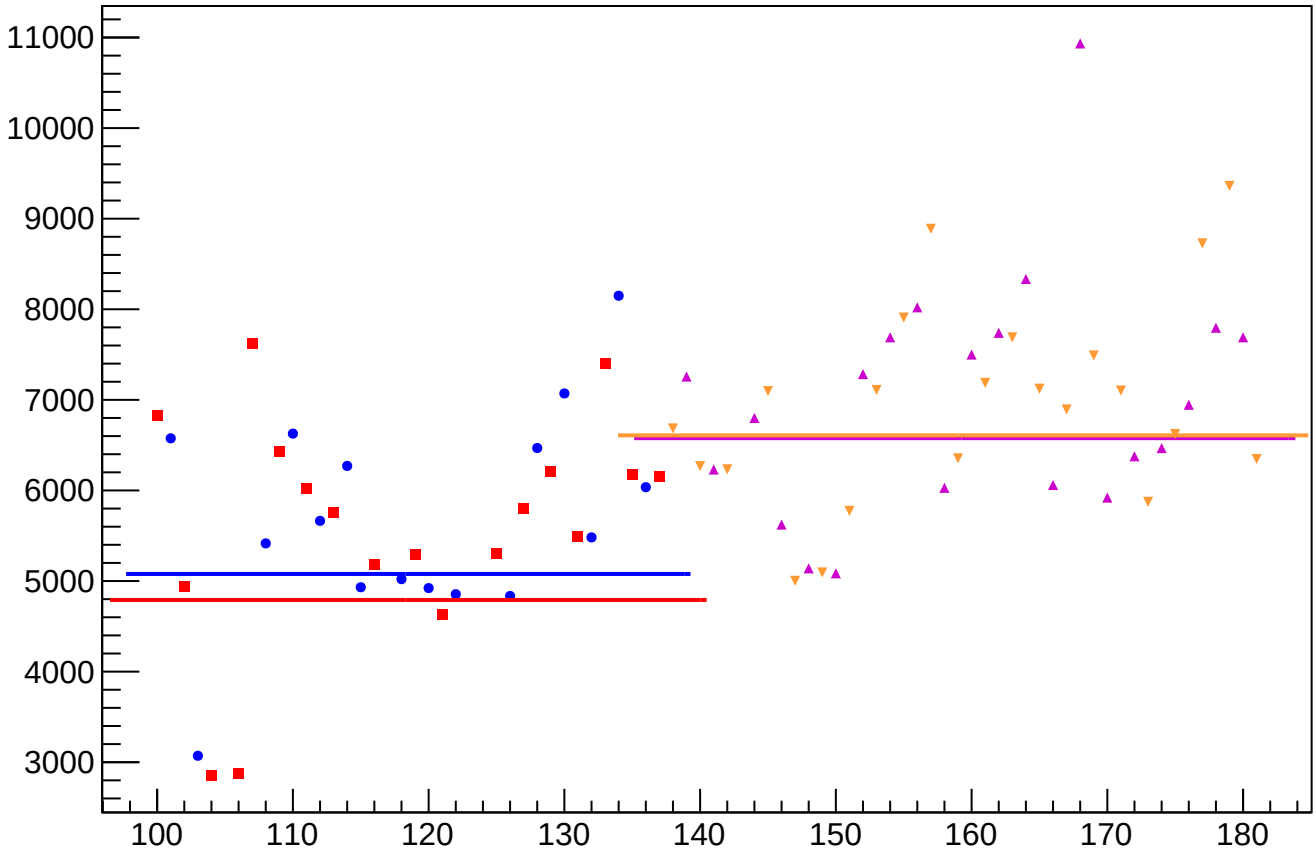
Left: 3690.004+/-1138.720 $\chi^2$/NDF: 39.6/42

Right: 4805.905+/-1371.511 $\chi^2$/NDF: 29.2/33

In: 4783.046+/-1244.751 $\chi^2$/NDF:25.9/36

Out: 3519.296+/-1233.339 $\chi^2$/NDF:42.7/39

All: 4145.352+/-876.109 $\chi^2$/NDF: 69.1/76




Right In: 5078.157+/-1.385 $\chi^2$/NDF: 919209.4/15

Left Out: 6608.245+/-1.138 $\chi^2$/NDF:872006.2/21

Right Out: 4791.154+/-1.331 $\chi^2$/NDF: 1162455.3/17

Left In: 6577.289+/-1.140 $\chi^2$/NDF:977481.2/20

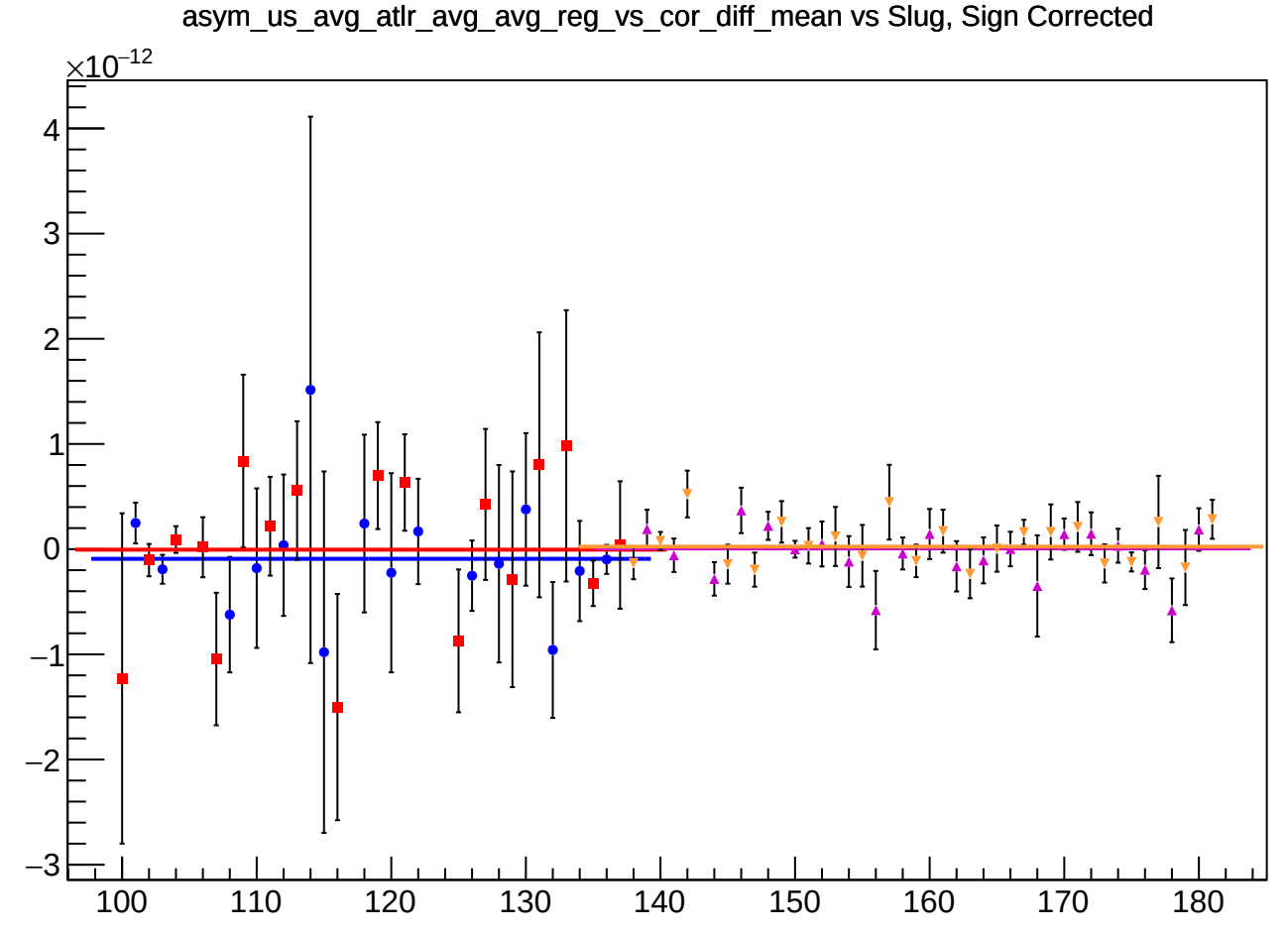
Left: 6592.795+/-0.805 $\chi^2$/NDF: 1849856.9/42

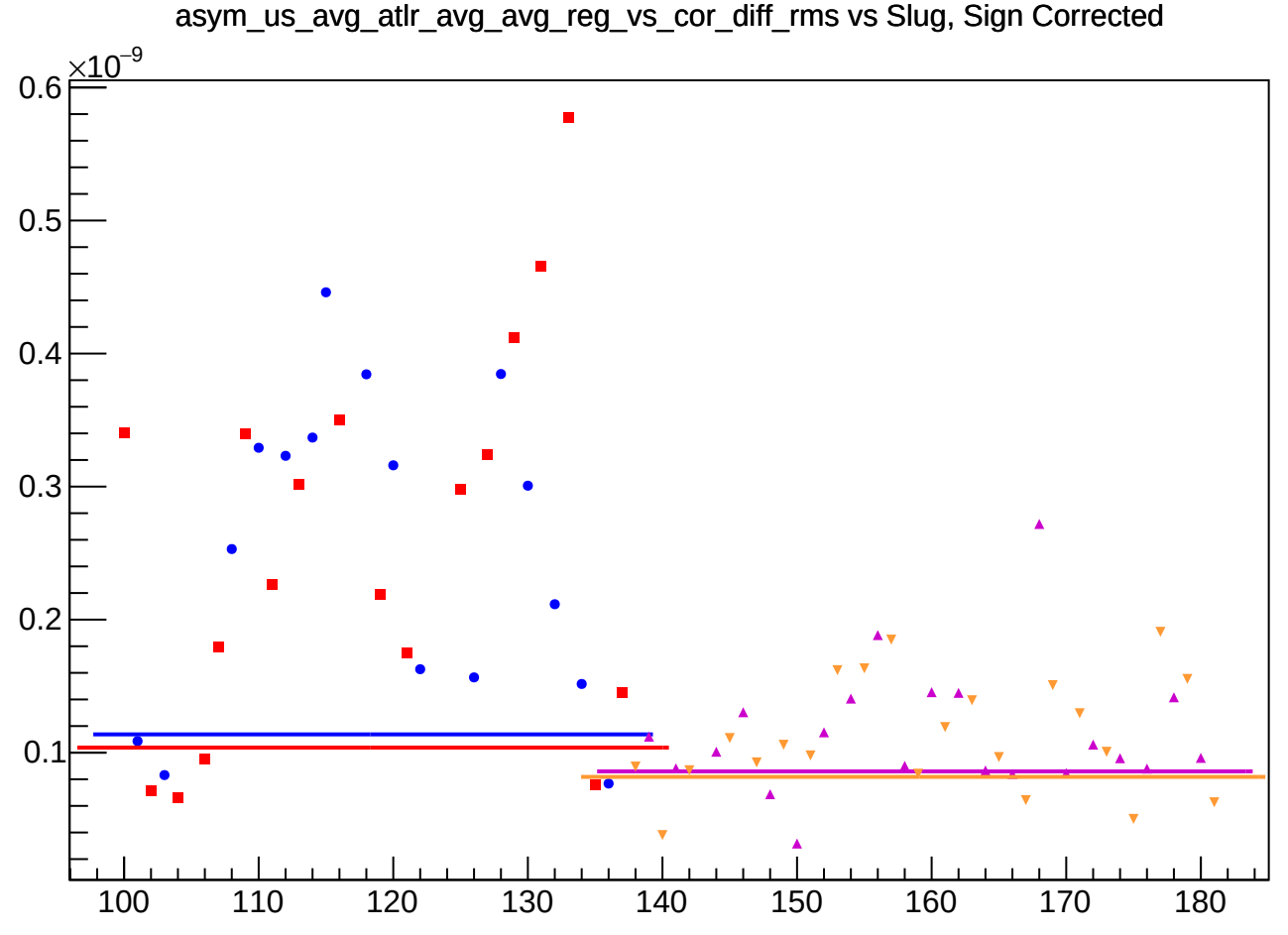
Right: 4928.883+/-0.960 $\chi^2$/NDF: 2103987.6/33

In: 5972.158+/-0.880 $\chi^2$/NDF:2595017.1/36

Out: 5840.932+/-0.865 $\chi^2$/NDF:3111696.5/39

All: 5905.384+/-0.617 $\chi^2$/NDF: 5718024.5/76


asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
−3
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 8.2/15
Left Out: 0.000+/-0.000 χ²/NDF:22.9/21
Right Out: -0.000+/-0.000 χ²/NDF: 17.4/17
Left In: 0.000+/-0.000 χ²/NDF:21.6/20
Left: 0.000+/-0.000 χ²/NDF: 44.6/42
Right: -0.000+/-0.000 χ²/NDF: 26.2/33
In: -0.000+/-0.000 χ²/NDF:31.1/36
Out: 0.000+/-0.000 χ²/NDF:40.4/39
All: 0.000+/-0.000 χ²/NDF: 71.9/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1524807.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2079987.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2087534.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2036892.6/20

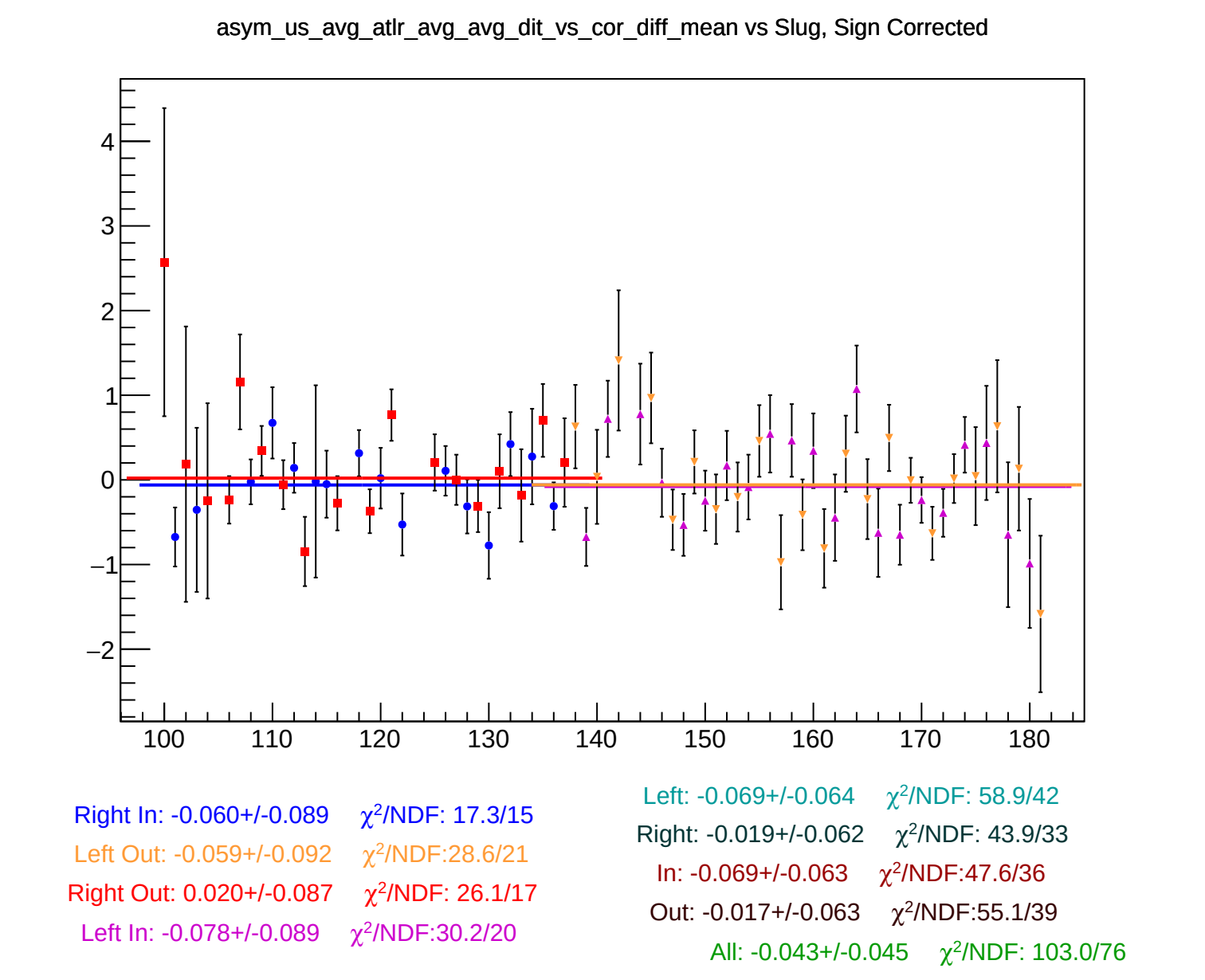
Left: 0.000+/-0.000 $\chi^2$/NDF: 4129414.4/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 3628704.5/33

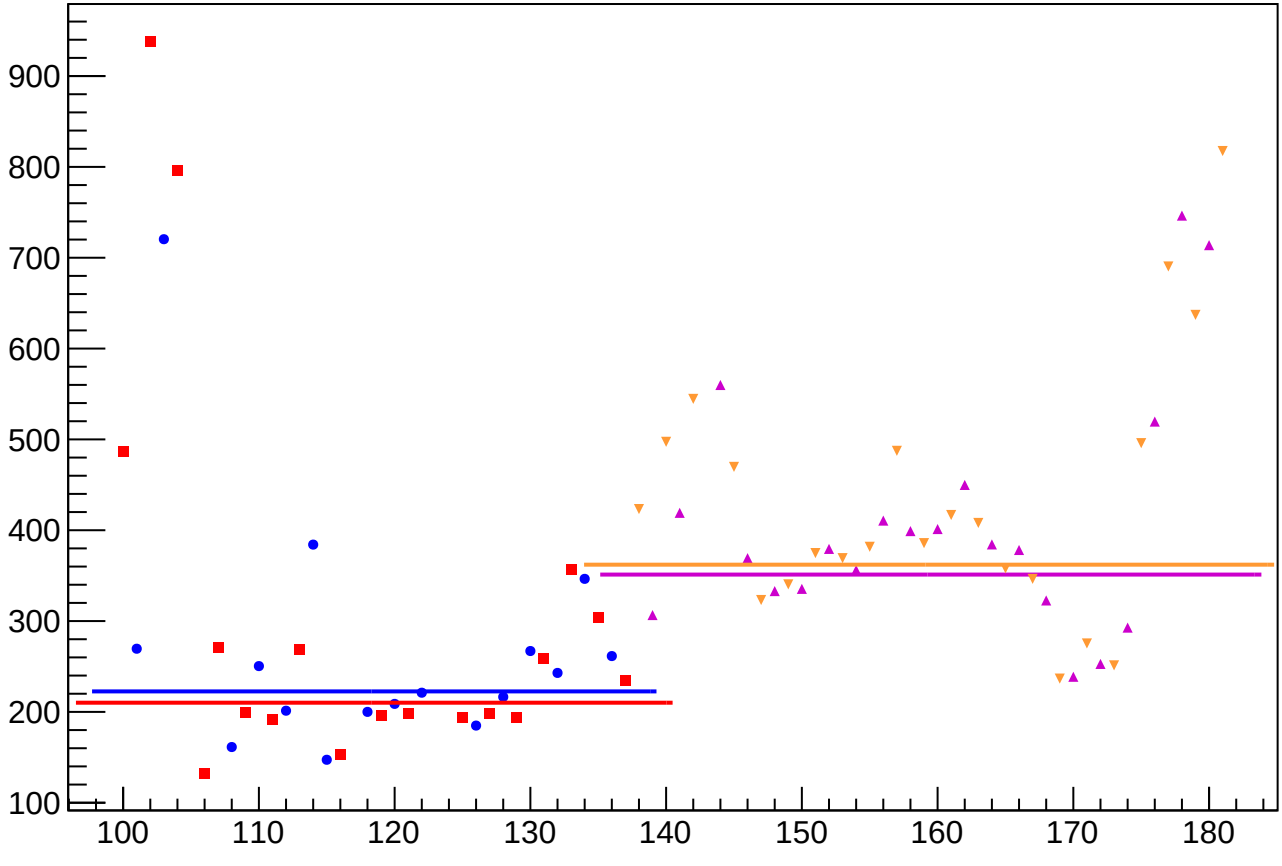
In: 0.000+/-0.000 $\chi^2$/NDF:3768600.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4301261.9/39

All: 0.000+/-0.000 $\chi^2$/NDF: 8096571.0/76


asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected
4
3
2
1
0
−1
−2
100
110
120
130
140
150
160
170
180
Right In: -0.060+/-0.089 χ²/NDF: 17.3/15
Left Out: -0.059+/-0.092 χ²/NDF:28.6/21
Right Out: 0.020+/-0.087 χ²/NDF: 26.1/17
Left In: -0.078+/-0.089 χ²/NDF:30.2/20
Left: -0.069+/-0.064 χ²/NDF: 58.9/42
Right: -0.019+/-0.062 χ²/NDF: 43.9/33
In: -0.069+/-0.063 χ²/NDF:47.6/36
Out: -0.017+/-0.063 χ²/NDF:55.1/39
All: -0.043+/-0.045 χ²/NDF: 103.0/76

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 222.569+/-0.063 $\chi^2$/NDF: 1018774.9/15

Left Out: 362.081+/-0.065 $\chi^2$/NDF:2645906.9/21

Right Out: 210.123+/-0.062 $\chi^2$/NDF: 1548526.4/17

Left In: 351.180+/-0.063 $\chi^2$/NDF:2189885.8/20

Left: 356.459+/-0.045 $\chi^2$/NDF: 4850294.1/42

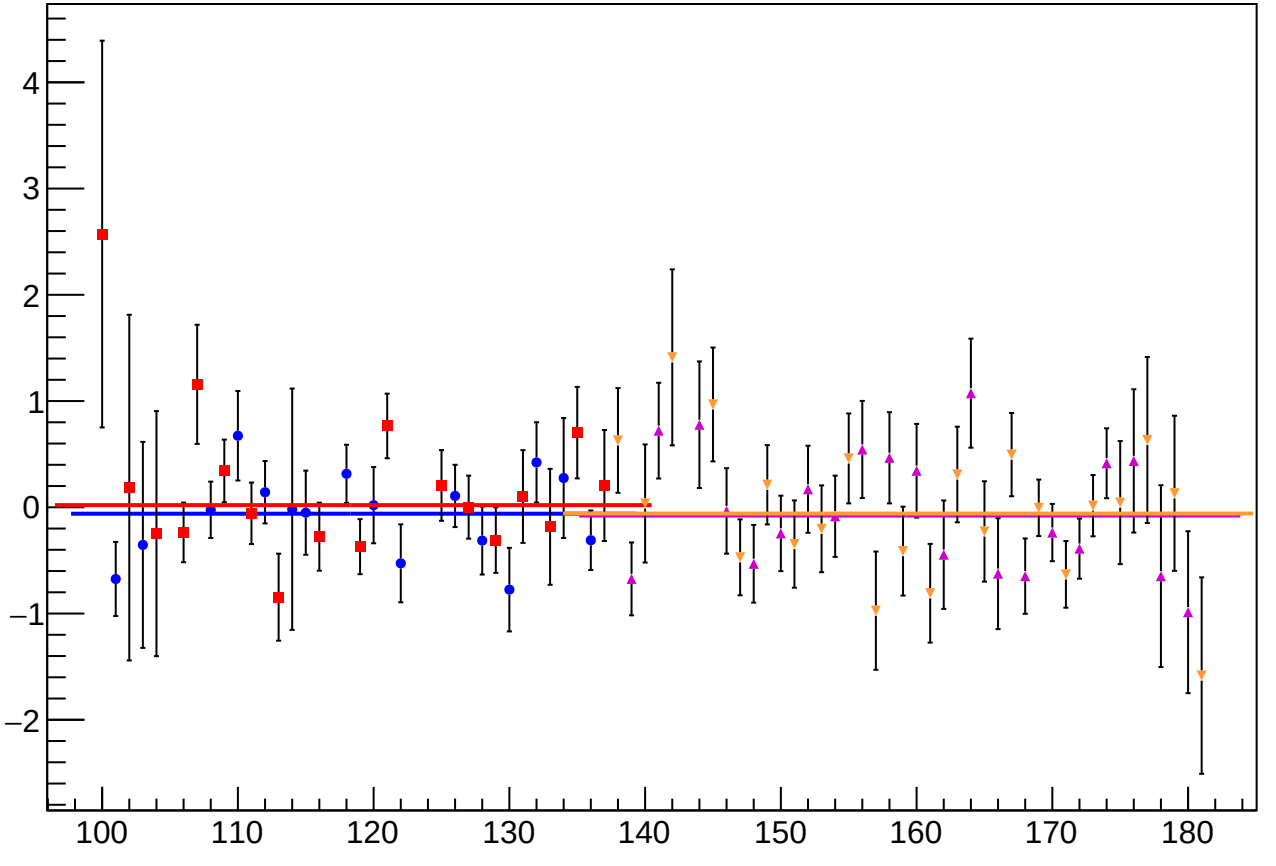
Right: 216.259+/-0.044 $\chi^2$/NDF: 2587282.3/33

In: 286.559+/-0.044 $\chi^2$/NDF:5302723.3/36

Out: 282.281+/-0.045 $\chi^2$/NDF:7063419.0/39

All: 284.438+/-0.032 $\chi^2$/NDF: 12370738.5/76

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.060+/-0.089 $\chi^2$/NDF: 17.3/15

Left Out: -0.059+/-0.092 $\chi^2$/NDF:28.6/21

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: -0.078+/-0.089 $\chi^2$/NDF:30.2/20

Left: -0.069+/-0.064 $\chi^2$/NDF: 58.9/42

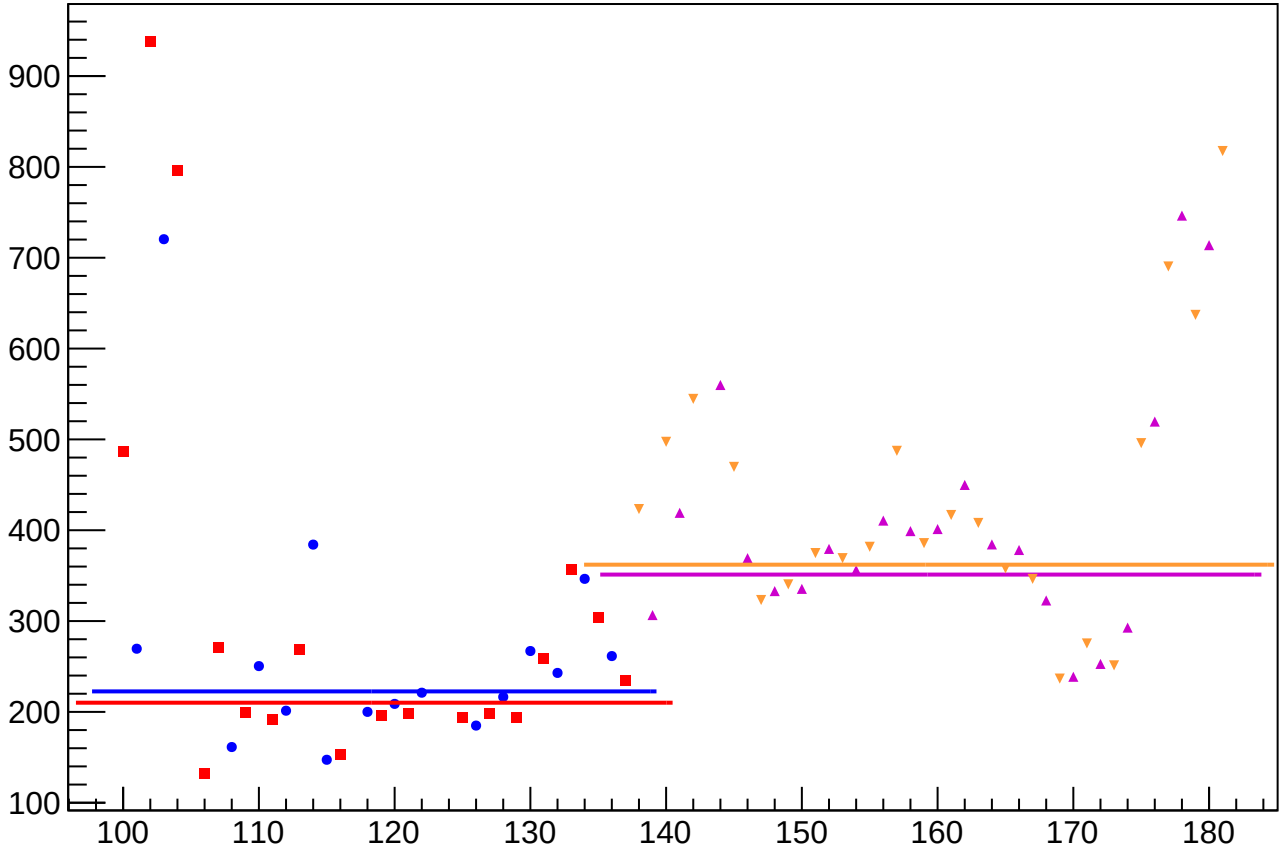
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.069+/-0.063 $\chi^2$/NDF:47.6/36

Out: -0.017+/-0.063 $\chi^2$/NDF:55.1/39

All: -0.043+/-0.045 $\chi^2$/NDF: 103.0/76

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 222.569+/-0.063 $\chi^2$/NDF: 1018774.9/15

Left Out: 362.081+/-0.065 $\chi^2$/NDF:2645906.9/21

Right Out: 210.123+/-0.062 $\chi^2$/NDF: 1548526.4/17

Left In: 351.180+/-0.063 $\chi^2$/NDF:2189885.8/20

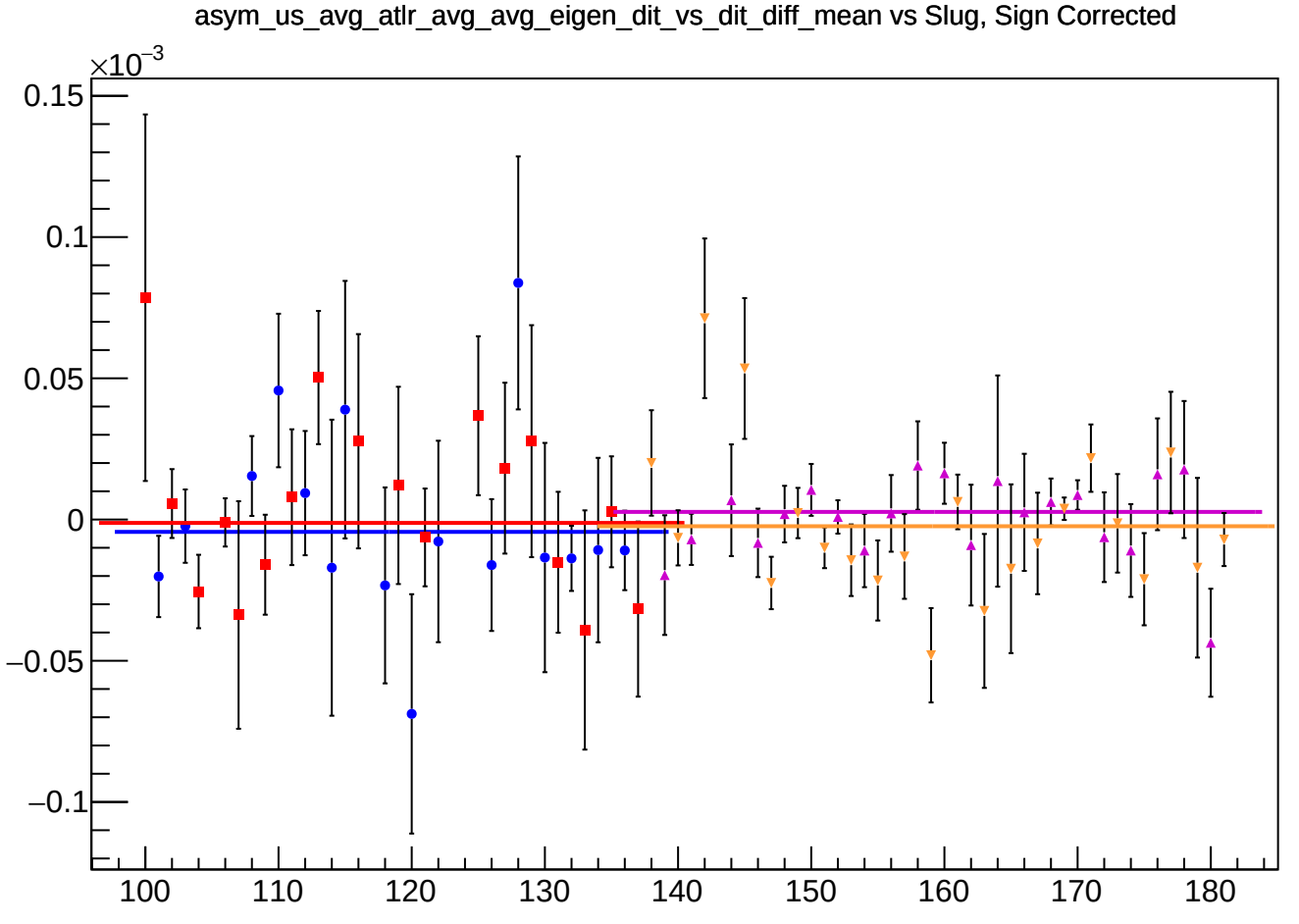
Left: 356.459+/-0.045 $\chi^2$/NDF: 4850294.1/42

Right: 216.259+/-0.044 $\chi^2$/NDF: 2587282.3/33

In: 286.559+/-0.044 $\chi^2$/NDF:5302723.3/36

Out: 282.281+/-0.045 $\chi^2$/NDF:7063419.0/39

All: 284.438+/-0.032 $\chi^2$/NDF: 12370738.5/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:42.4/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.4/20

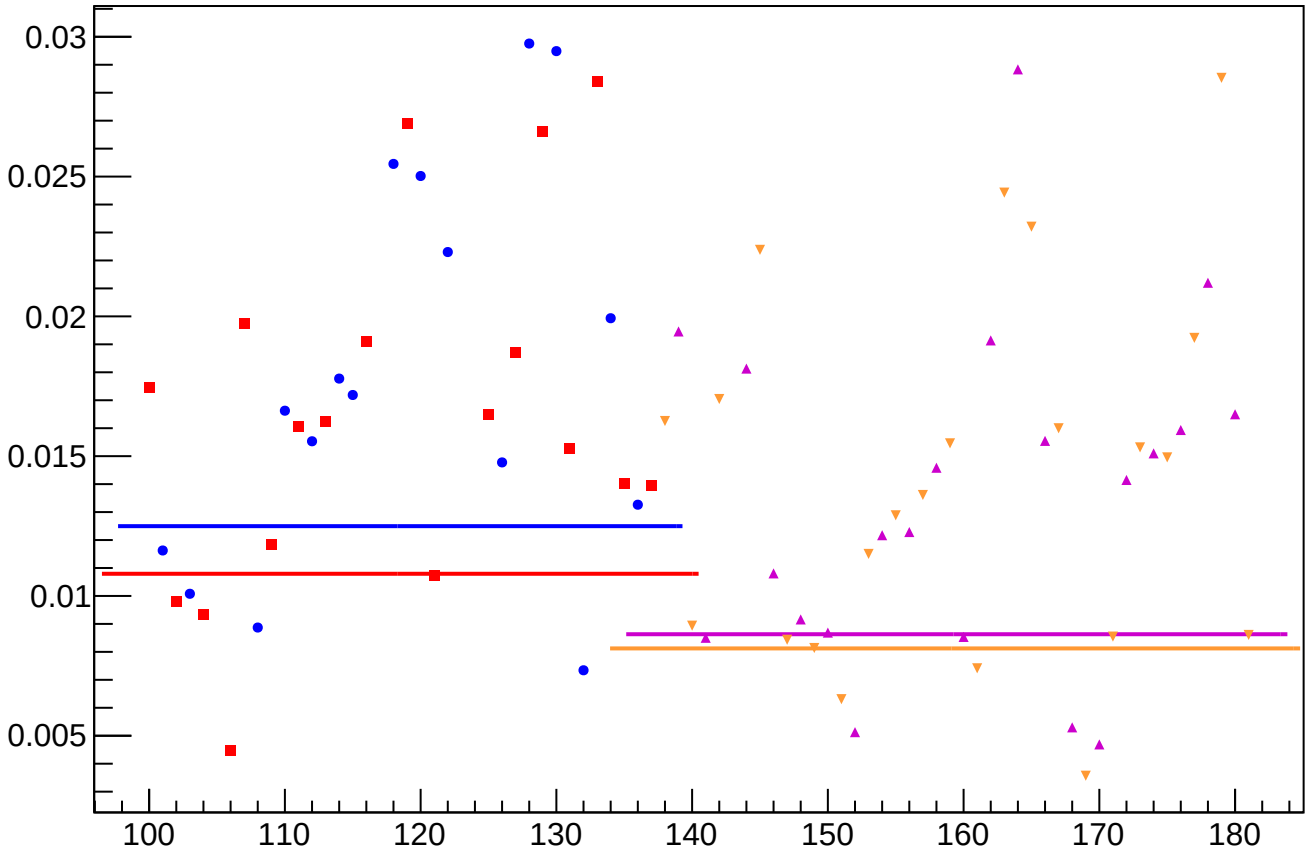
Left: 0.000+/-0.000 $\chi^2$/NDF: 62.0/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 33.1/33

In: 0.000+/-0.000 $\chi^2$/NDF:34.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:59.7/39

All: -0.000+/-0.000 $\chi^2$/NDF: 95.6/76




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2114968.1/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:8696583.4/21

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 2987826.3/17

Left In: 0.009+/-0.000 $\chi^2$/NDF:6791354.0/20

Left: 0.008+/-0.000 $\chi^2$/NDF: 15533738.7/42

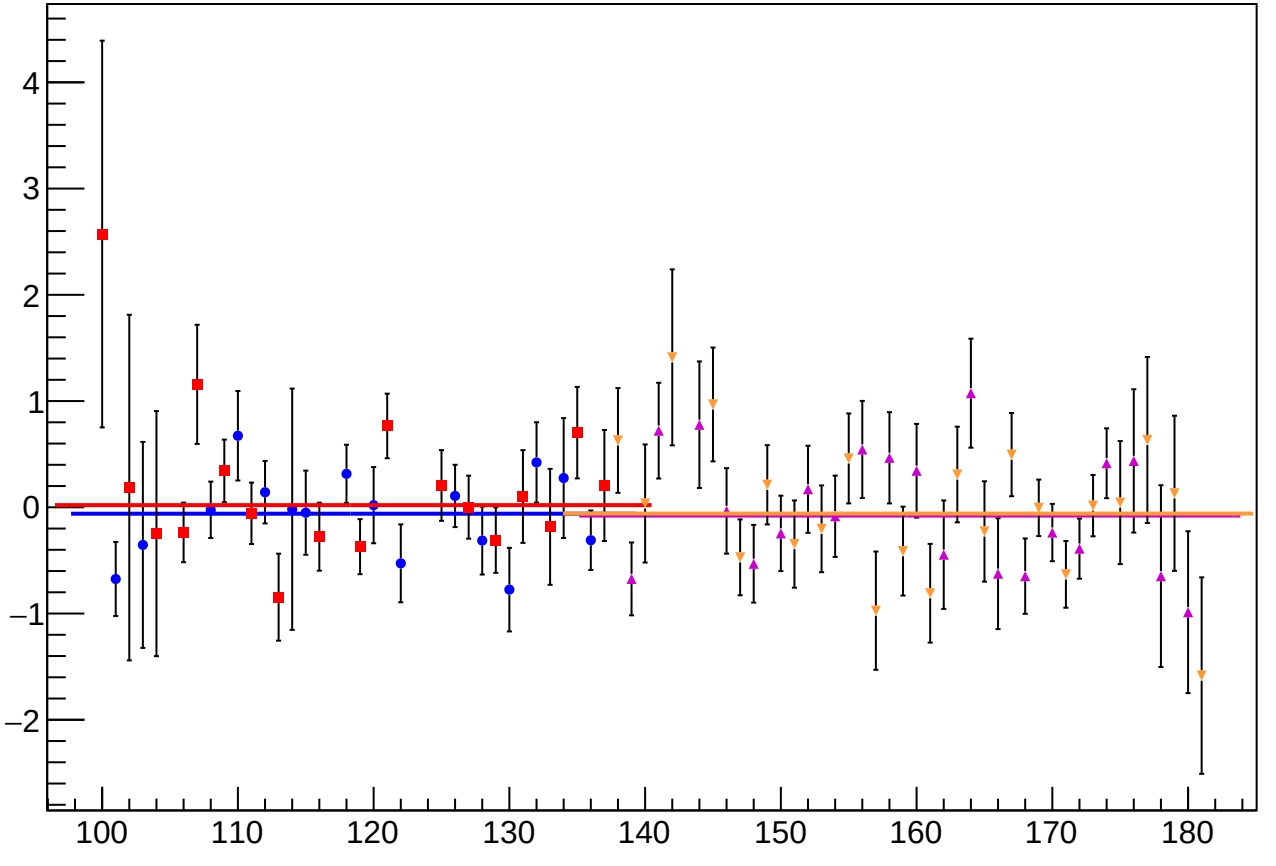
Right: 0.012+/-0.000 $\chi^2$/NDF: 5226474.2/33

In: 0.009+/-0.000 $\chi^2$/NDF:9846856.4/36

Out: 0.009+/-0.000 $\chi^2$/NDF:12224767.3/39

All: 0.009+/-0.000 $\chi^2$/NDF: 22175027.3/76

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.060+/-0.089 $\chi^2$/NDF: 17.3/15

Left Out: -0.059+/-0.092 $\chi^2$/NDF:28.6/21

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: -0.078+/-0.089 $\chi^2$/NDF:30.2/20

Left: -0.069+/-0.064 $\chi^2$/NDF: 58.9/42

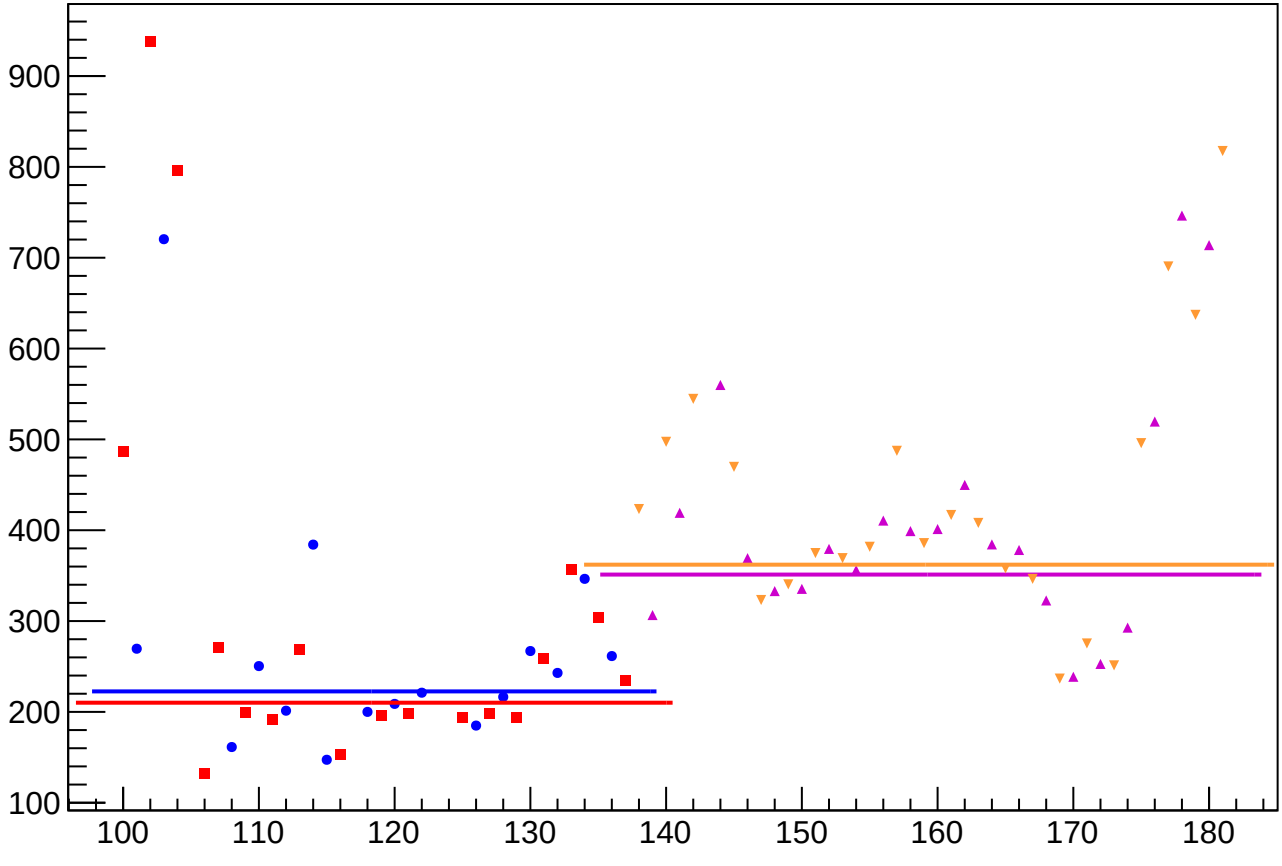
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.069+/-0.063 $\chi^2$/NDF:47.6/36

Out: -0.017+/-0.063 $\chi^2$/NDF:55.1/39

All: -0.043+/-0.045 $\chi^2$/NDF: 103.0/76

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 222.567+/-0.063 $\chi^2$/NDF: 1018760.3/15

Left Out: 362.082+/-0.065 $\chi^2$/NDF:2646120.7/21

Right Out: 210.120+/-0.062 $\chi^2$/NDF: 1548507.5/17

Left In: 351.181+/-0.063 $\chi^2$/NDF:2190047.9/20

Left: 356.460+/-0.045 $\chi^2$/NDF: 4850666.5/42

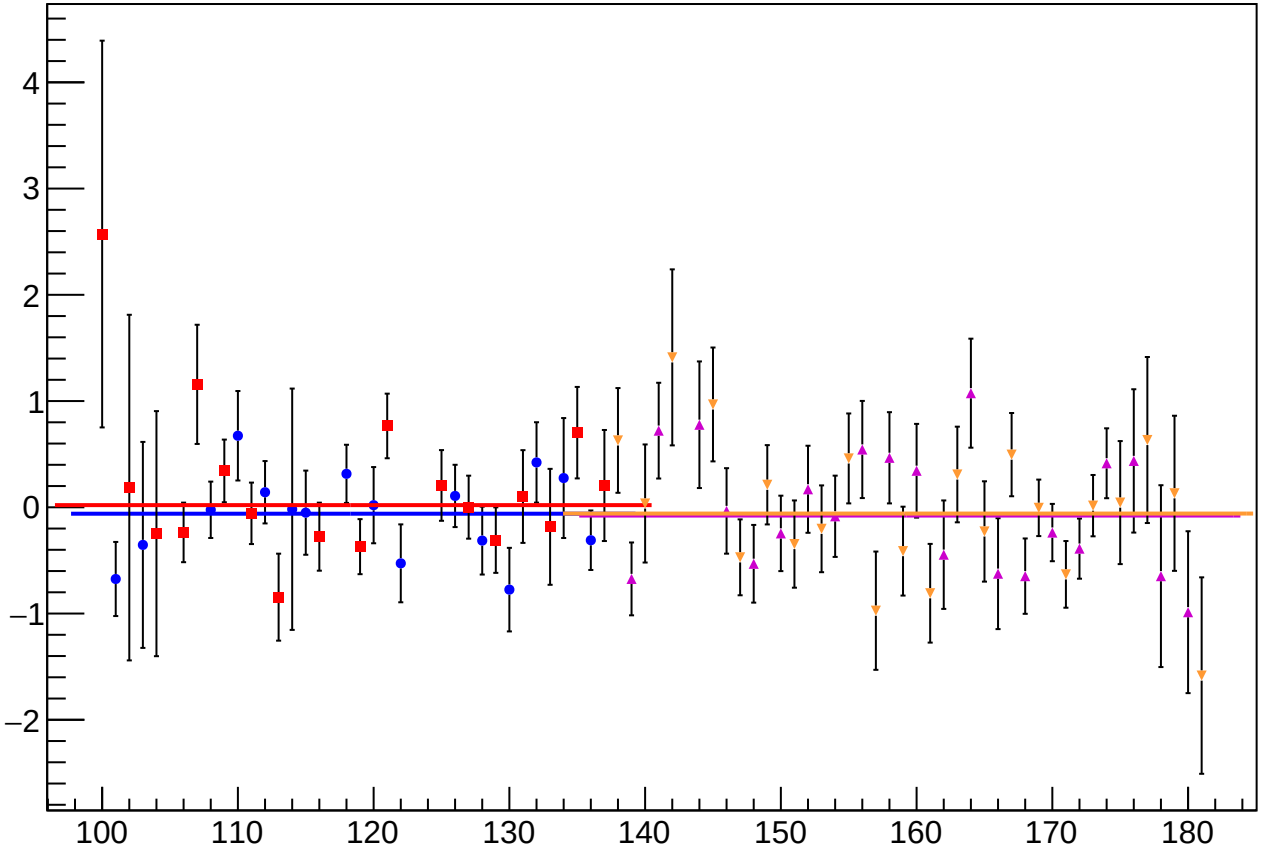
Right: 216.257+/-0.044 $\chi^2$/NDF: 2587251.9/33

In: 286.558+/-0.044 $\chi^2$/NDF:5302978.2/36

Out: 282.279+/-0.045 $\chi^2$/NDF:7063742.0/39

All: 284.436+/-0.032 $\chi^2$/NDF: 12371319.5/76

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.060+/-0.089 $\chi^2$/NDF: 17.3/15

Left Out: -0.059+/-0.092 $\chi^2$/NDF:28.6/21

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: -0.078+/-0.089 $\chi^2$/NDF:30.2/20

Left: -0.069+/-0.064 $\chi^2$/NDF: 58.9/42

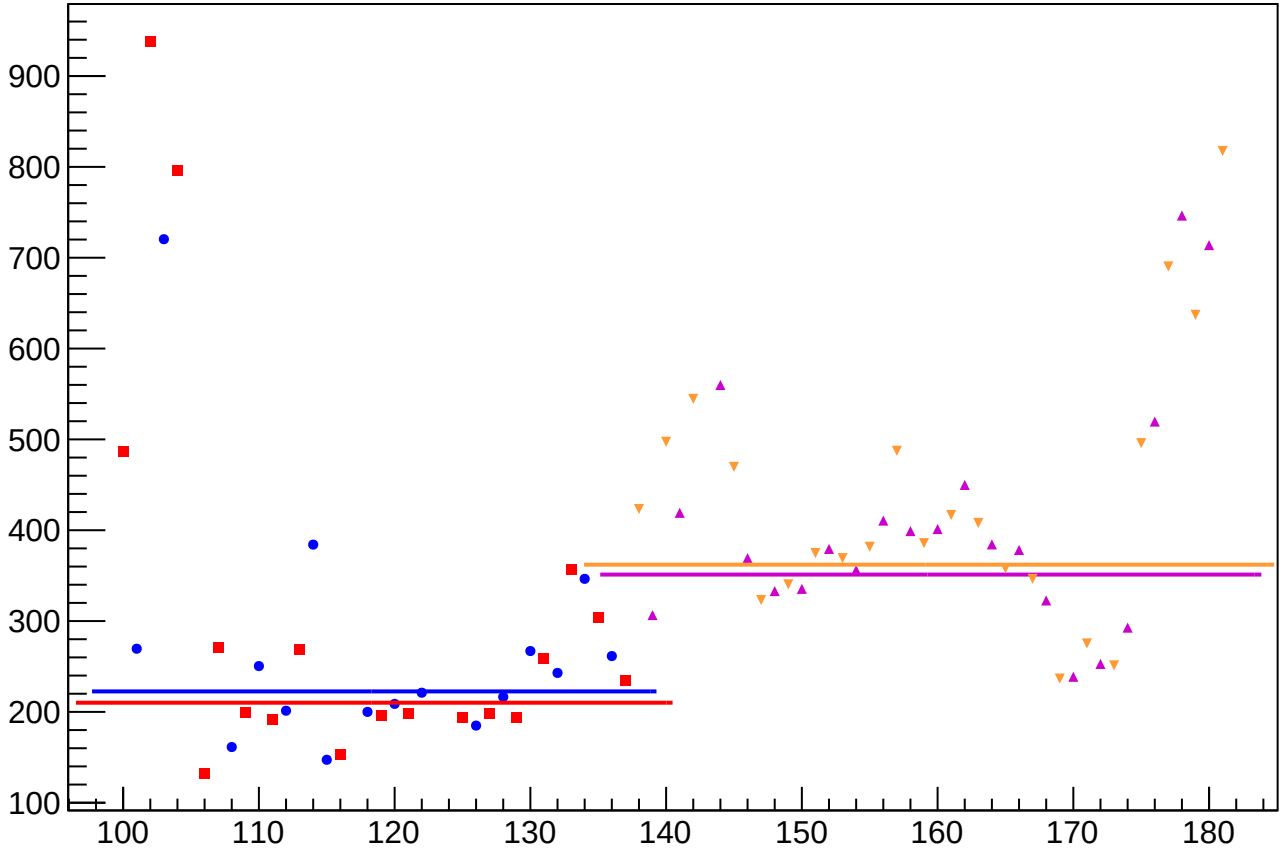
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.069+/-0.063 $\chi^2$/NDF:47.6/36

Out: -0.017+/-0.063 $\chi^2$/NDF:55.1/39

All: -0.043+/-0.045 $\chi^2$/NDF: 103.0/76

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 222.567+/-0.063 $\chi^2$/NDF: 1018760.3/15

Left Out: 362.082+/-0.065 $\chi^2$/NDF:2646120.7/21

Right Out: 210.120+/-0.062 $\chi^2$/NDF: 1548507.5/17

Left In: 351.181+/-0.063 $\chi^2$/NDF:2190047.9/20

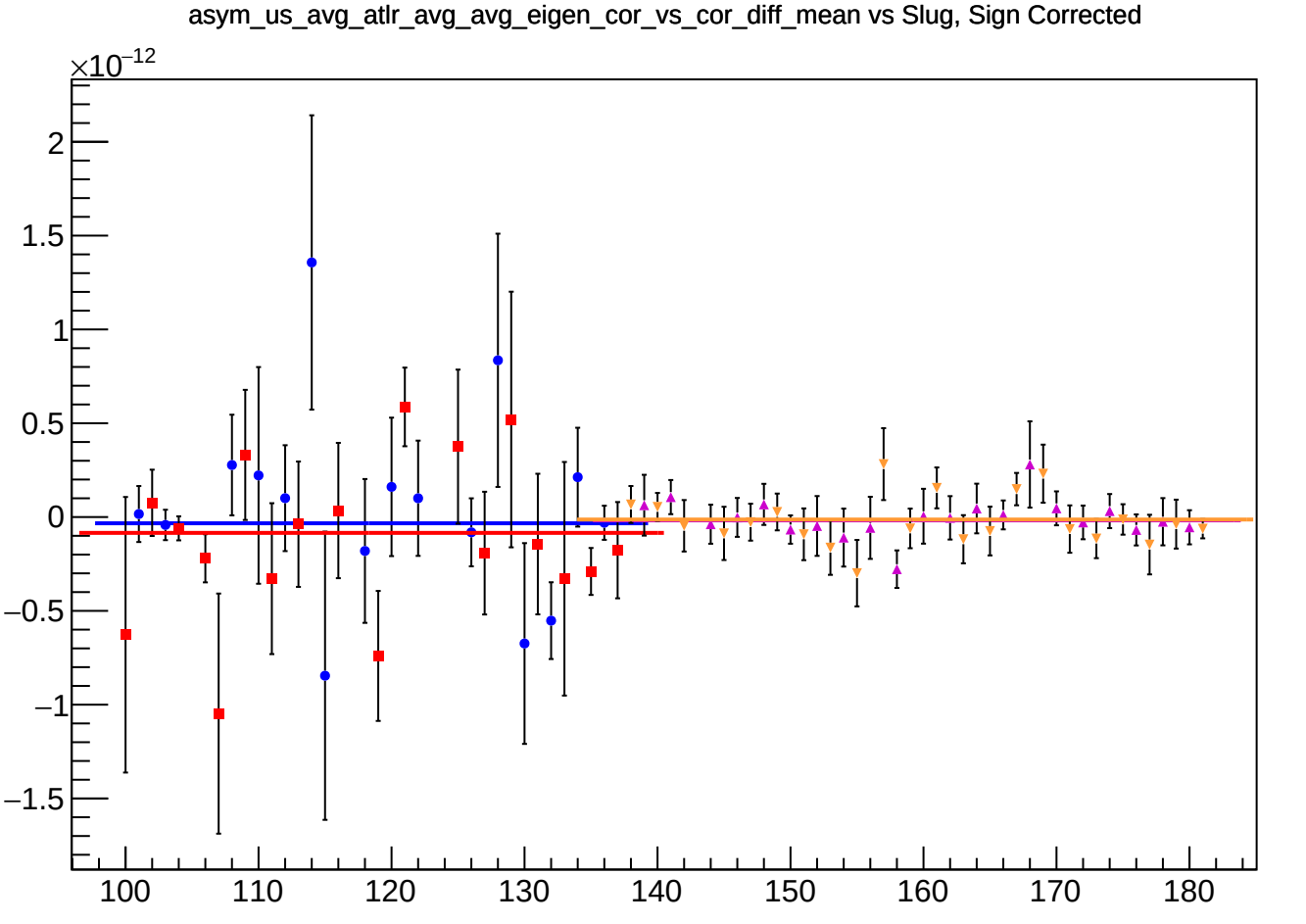
Left: 356.460+/-0.045 $\chi^2$/NDF: 4850666.5/42

Right: 216.257+/-0.044 $\chi^2$/NDF: 2587251.9/33

In: 286.558+/-0.044 $\chi^2$/NDF:5302978.2/36

Out: 282.279+/-0.045 $\chi^2$/NDF:7063742.0/39

All: 284.436+/-0.032 $\chi^2$/NDF: 12371319.5/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:20.6/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.9/20

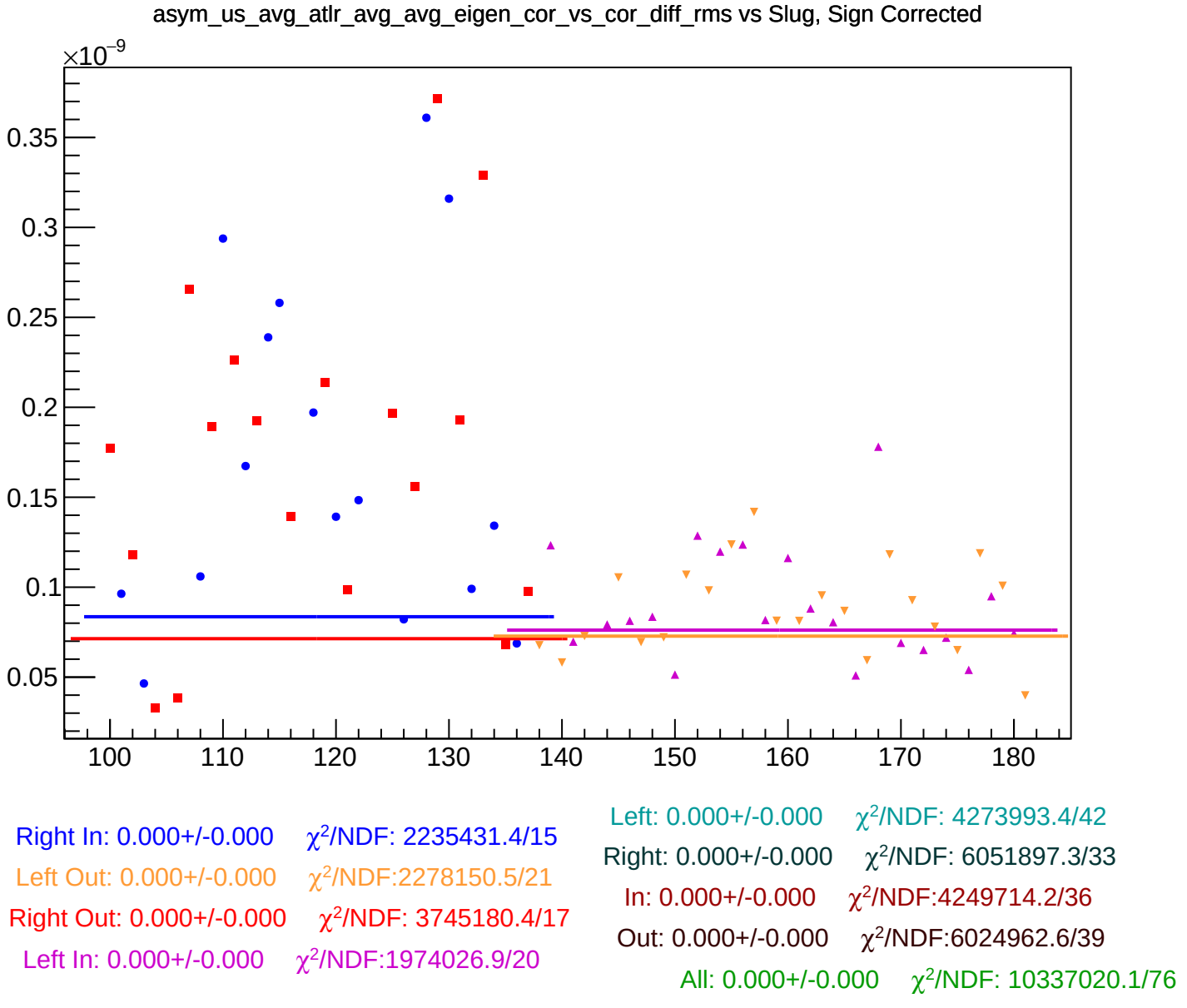
Left: -0.000+/-0.000 $\chi^2$/NDF: 34.5/42

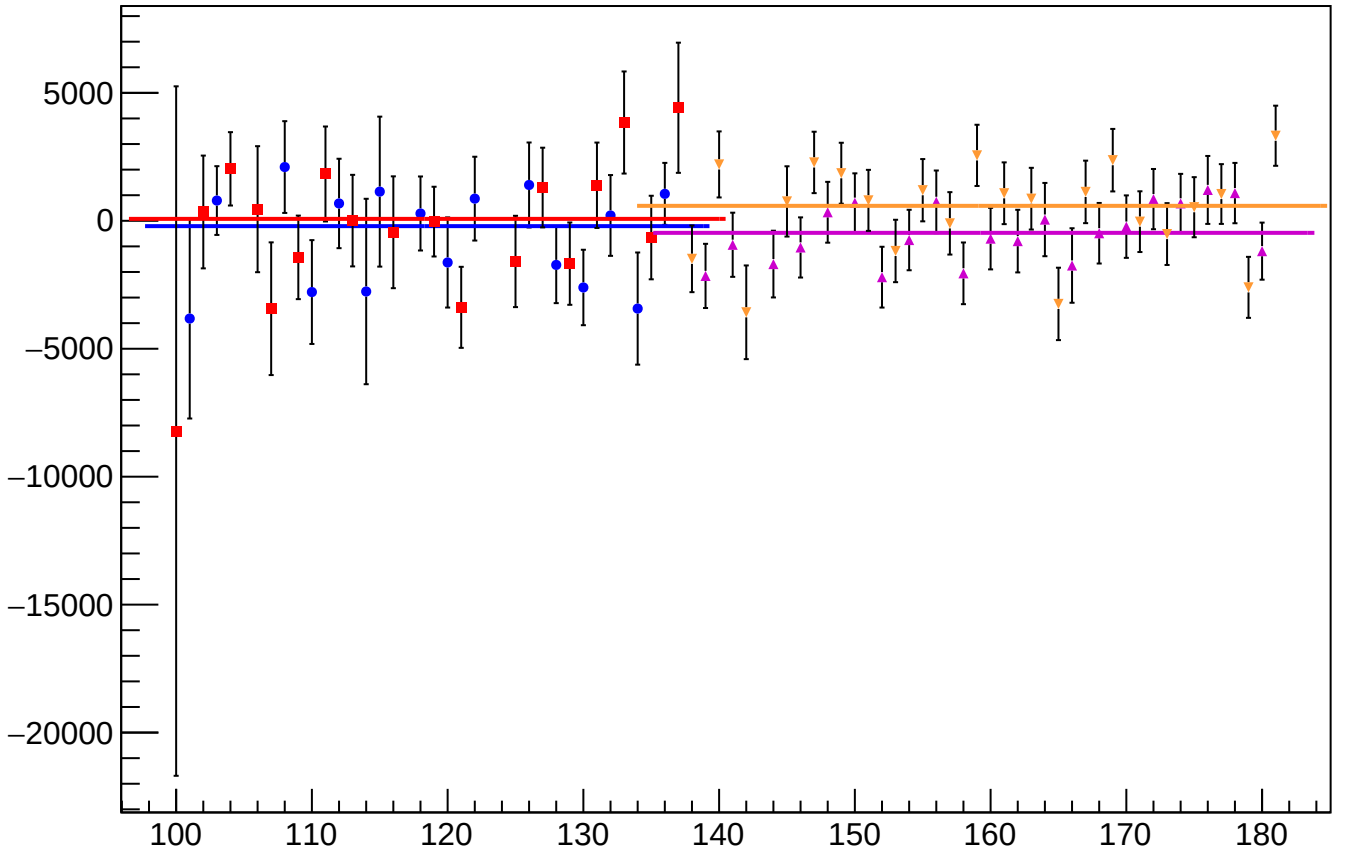
Right: -0.000+/-0.000 $\chi^2$/NDF: 43.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:31.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:48.5/39

All: -0.000+/-0.000 $\chi^2$/NDF: 79.8/76


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.35
0.3
0.25
0.2
0.15
0.1
0.05
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2235431.4/15
Left Out: 0.000+/-0.000 χ²/NDF:2278150.5/21
Right Out: 0.000+/-0.000 χ²/NDF: 3745180.4/17
Left In: 0.000+/-0.000 χ²/NDF:1974026.9/20
Left: 0.000+/-0.000 χ²/NDF: 4273993.4/42
Right: 0.000+/-0.000 χ²/NDF: 6051897.3/33
In: 0.000+/-0.000 χ²/NDF:4249714.2/36
Out: 0.000+/-0.000 χ²/NDF:6024962.6/39
All: 0.000+/-0.000 χ²/NDF: 10337020.1/76




Right In: -208.338+/-429.155 $\chi^2$/NDF: 14.8/15

Left Out: 584.911+/-264.114 $\chi^2$/NDF:41.6/21

Right Out: 75.616+/-430.760 $\chi^2$/NDF: 20.7/17

Left In: -470.491+/-266.323 $\chi^2$/NDF:16.5/20

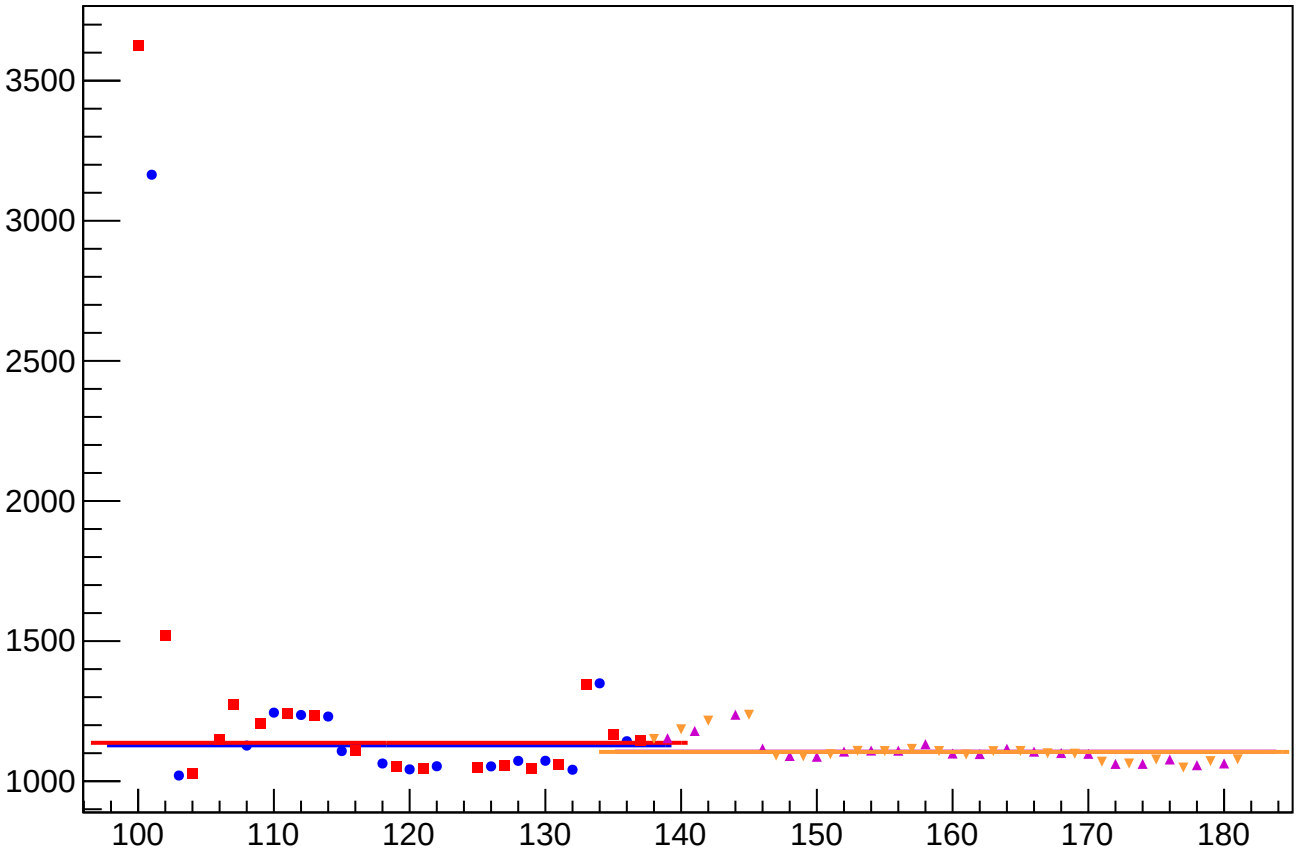
Left: 61.605+/-187.533 $\chi^2$/NDF: 66.0/42

Right: -66.891+/-304.024 $\chi^2$/NDF: 35.6/33

In: -397.602+/-226.291 $\chi^2$/NDF:31.5/36

Out: 445.760+/-225.161 $\chi^2$/NDF:63.2/39

All: 26.189+/-159.611 $\chi^2$/NDF: 101.7/76




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621394.5/15

Left Out: 1104.522+/-0.187 $\chi^2$/NDF:49740.7/21

Right Out: 1137.041+/-0.304 $\chi^2$/NDF: 220086.1/17

Left In: 1105.497+/-0.188 $\chi^2$/NDF:45419.5/20

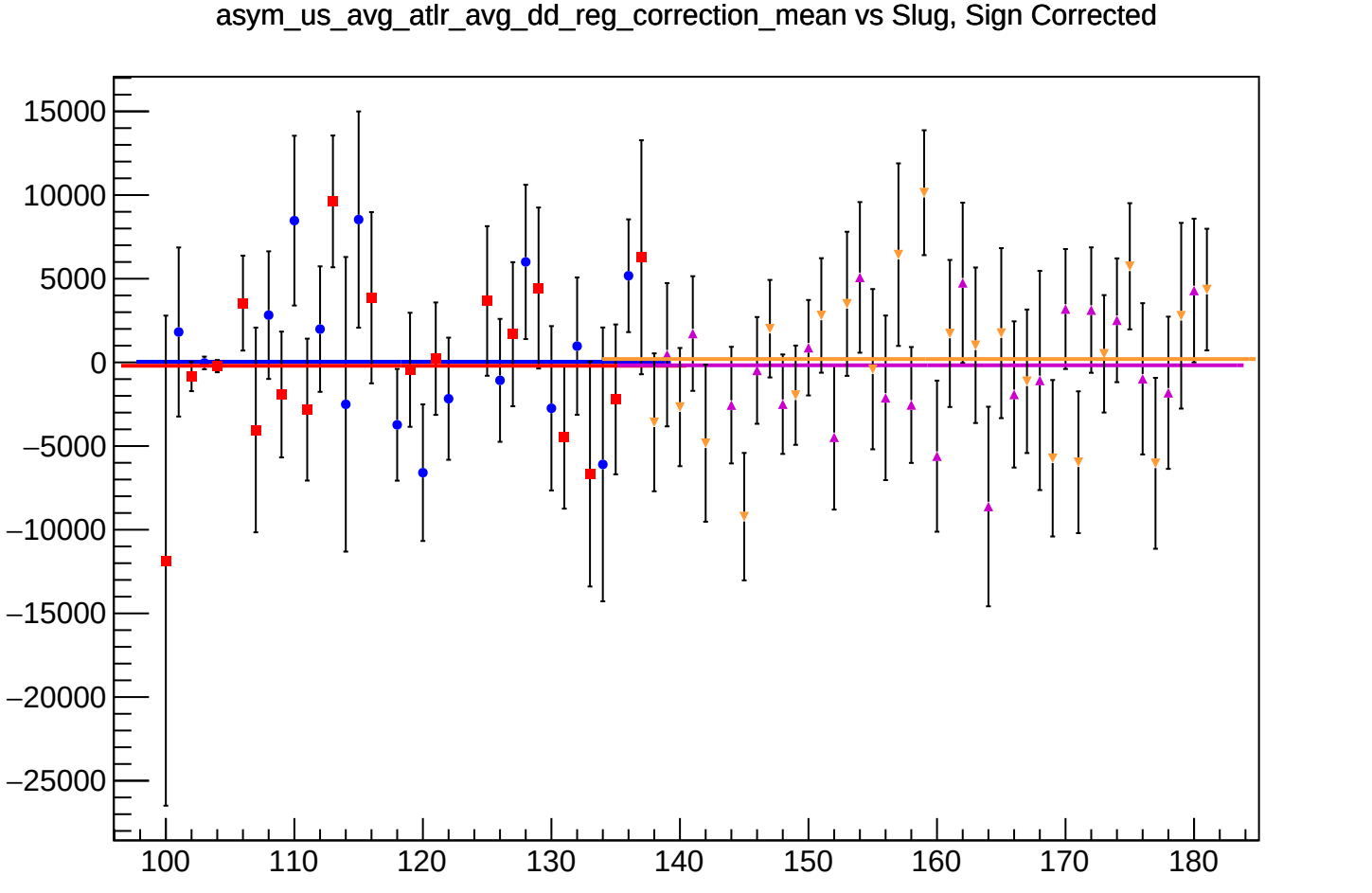
Left: 1105.006+/-0.133 $\chi^2$/NDF: 95173.6/42

Right: 1132.516+/-0.215 $\chi^2$/NDF: 841922.9/33

In: 1111.756+/-0.160 $\chi^2$/NDF:670786.6/36

Out: 1113.431+/-0.159 $\chi^2$/NDF:278132.6/39

All: 1112.598+/-0.113 $\chi^2$/NDF: 948974.3/76




Right In: 38.300+/-357.651 $\chi^2$/NDF: 14.8/15

Left Out: 199.718+/-856.236 $\chi^2$/NDF:28.5/21

Right Out: -201.642+/-322.545 $\chi^2$/NDF: 15.6/17

Left In: -172.202+/-859.310 $\chi^2$/NDF:12.6/20

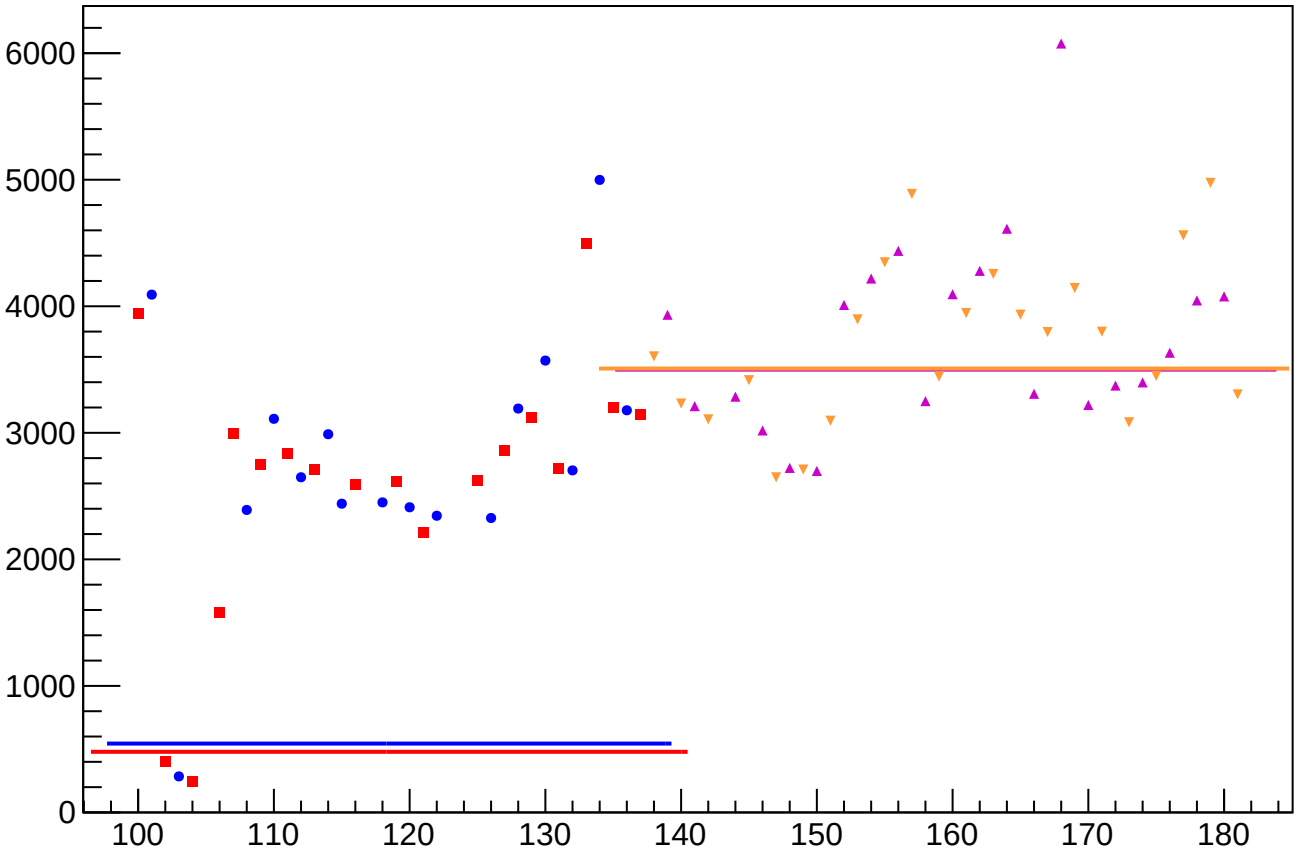
Left: 14.424+/-606.534 $\chi^2$/NDF: 41.3/42

Right: -94.022+/-239.526 $\chi^2$/NDF: 30.7/33

In: 7.219+/-330.194 $\chi^2$/NDF:27.5/36

Out: -151.765+/-301.839 $\chi^2$/NDF:44.3/39

All: -79.391+/-222.783 $\chi^2$/NDF: 72.0/76




Right In: 544.336+/-0.253 $\chi^2$/NDF: 9682967.9/15

Left Out: 3508.039+/-0.605 $\chi^2$/NDF:985638.5/21

Right Out: 479.253+/-0.228 $\chi^2$/NDF: 9187985.0/17

Left In: 3499.265+/-0.608 $\chi^2$/NDF:1098076.9/20

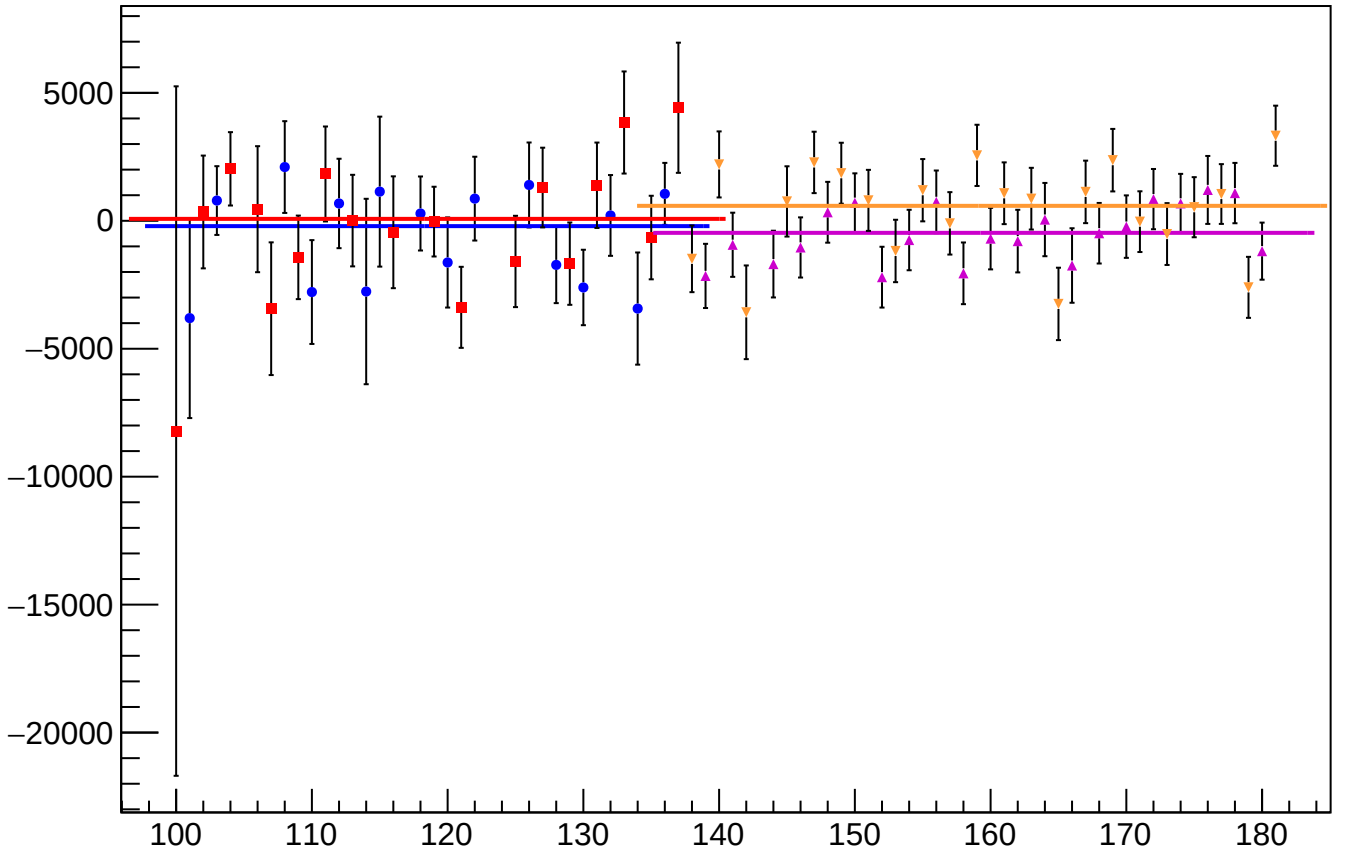
Left: 3503.668+/-0.429 $\chi^2$/NDF: 2083820.0/42

Right: 508.444+/-0.169 $\chi^2$/NDF: 18907476.4/33

In: 980.635+/-0.233 $\chi^2$/NDF:30938773.8/36

Out: 855.638+/-0.213 $\chi^2$/NDF:32089076.5/39

All: 912.540+/-0.158 $\chi^2$/NDF: 63183988.0/76




Right In: -208.110+/-429.155 $\chi^2$/NDF: 14.8/15

Left Out: 585.003+/-264.114 $\chi^2$/NDF:41.6/21

Right Out: 75.761+/-430.760 $\chi^2$/NDF: 20.7/17

Left In: -470.481+/-266.323 $\chi^2$/NDF:16.5/20

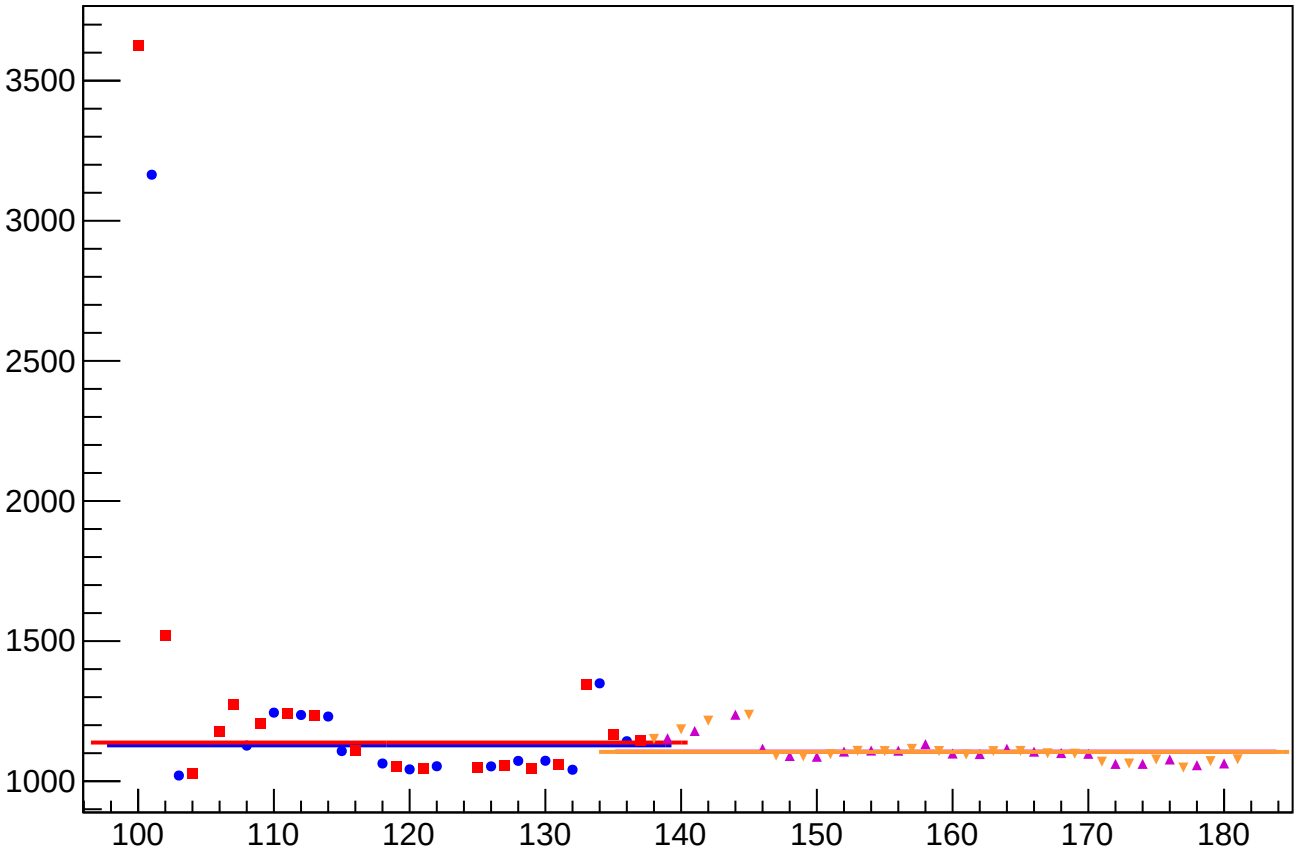
Left: 61.657+/-187.533 $\chi^2$/NDF: 66.0/42

Right: -66.705+/-304.024 $\chi^2$/NDF: 35.6/33

In: -397.531+/-226.291 $\chi^2$/NDF:31.5/36

Out: 445.867+/-225.161 $\chi^2$/NDF:63.2/39

All: 26.278+/-159.611 $\chi^2$/NDF: 101.7/76




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621395.6/15

Left Out: 1104.522+/-0.187 $\chi^2$/NDF:49740.6/21

Right Out: 1138.000+/-0.304 $\chi^2$/NDF: 220624.5/17

Left In: 1105.497+/-0.188 $\chi^2$/NDF:45419.5/20

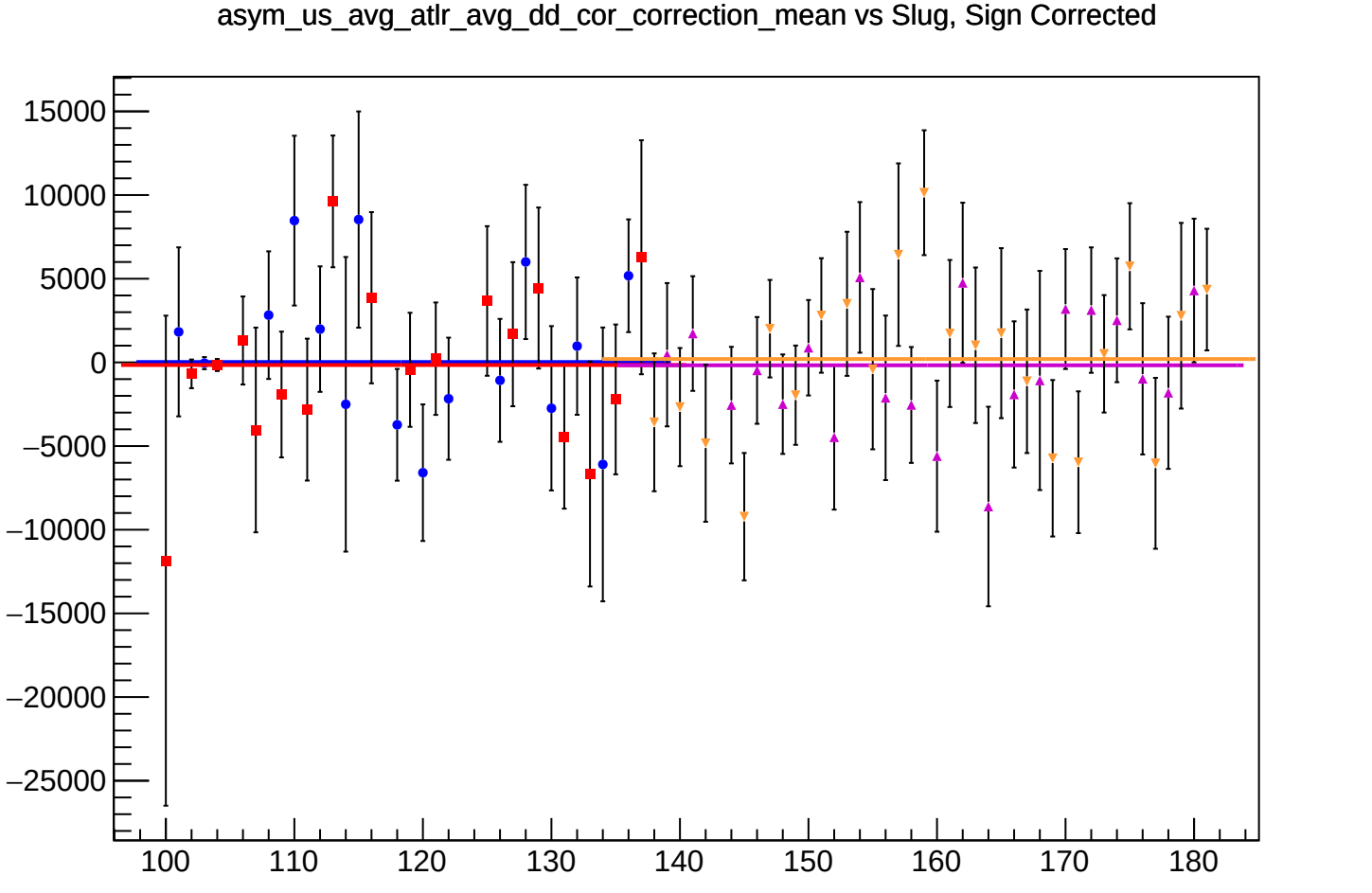
Left: 1105.006+/-0.133 $\chi^2$/NDF: 95173.6/42

Right: 1132.987+/-0.215 $\chi^2$/NDF: 842560.5/33

In: 1111.756+/-0.160 $\chi^2$/NDF:670787.6/36

Out: 1113.676+/-0.159 $\chi^2$/NDF:279151.6/39

All: 1112.721+/-0.113 $\chi^2$/NDF: 950011.6/76




Right In: 21.645+/-344.525 $\chi^2$/NDF: 14.9/15

Left Out: 199.765+/-856.237 $\chi^2$/NDF:28.5/21

Right Out: -156.231+/-317.367 $\chi^2$/NDF: 14.0/17

Left In: -172.216+/-859.310 $\chi^2$/NDF:12.6/20

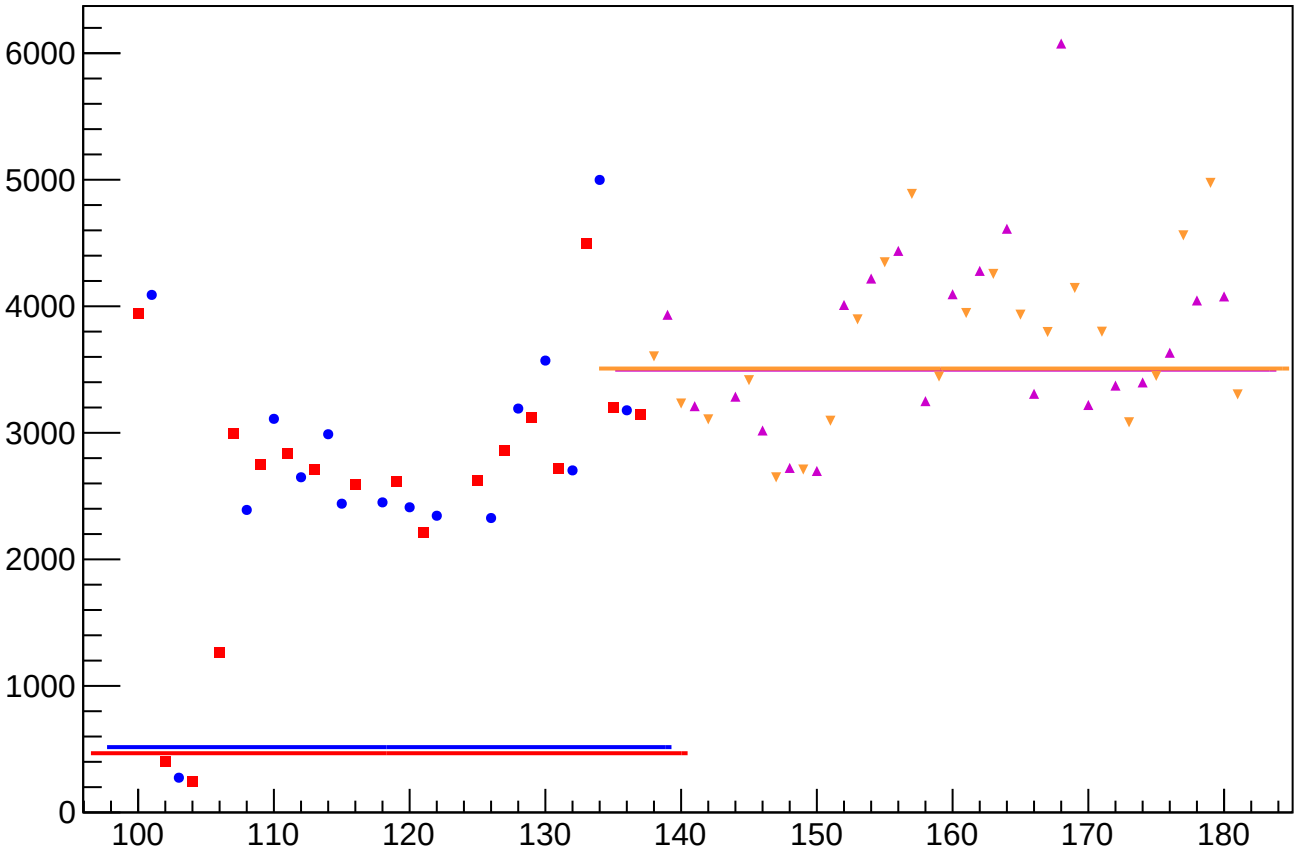
Left: 14.441+/-606.534 $\chi^2$/NDF: 41.3/42

Right: -74.579+/-233.424 $\chi^2$/NDF: 29.0/33

In: -5.202+/-319.781 $\chi^2$/NDF:27.6/36

Out: -113.230+/-297.583 $\chi^2$/NDF:42.7/39

All: -63.095+/-217.848 $\chi^2$/NDF: 70.3/76




Right In: 516.297+/-0.244 $\chi^2$/NDF: 9834669.6/15

Left Out: 3508.040+/-0.605 $\chi^2$/NDF:985646.8/21

Right Out: 468.060+/-0.224 $\chi^2$/NDF: 9111222.0/17

Left In: 3499.264+/-0.608 $\chi^2$/NDF:1098083.6/20

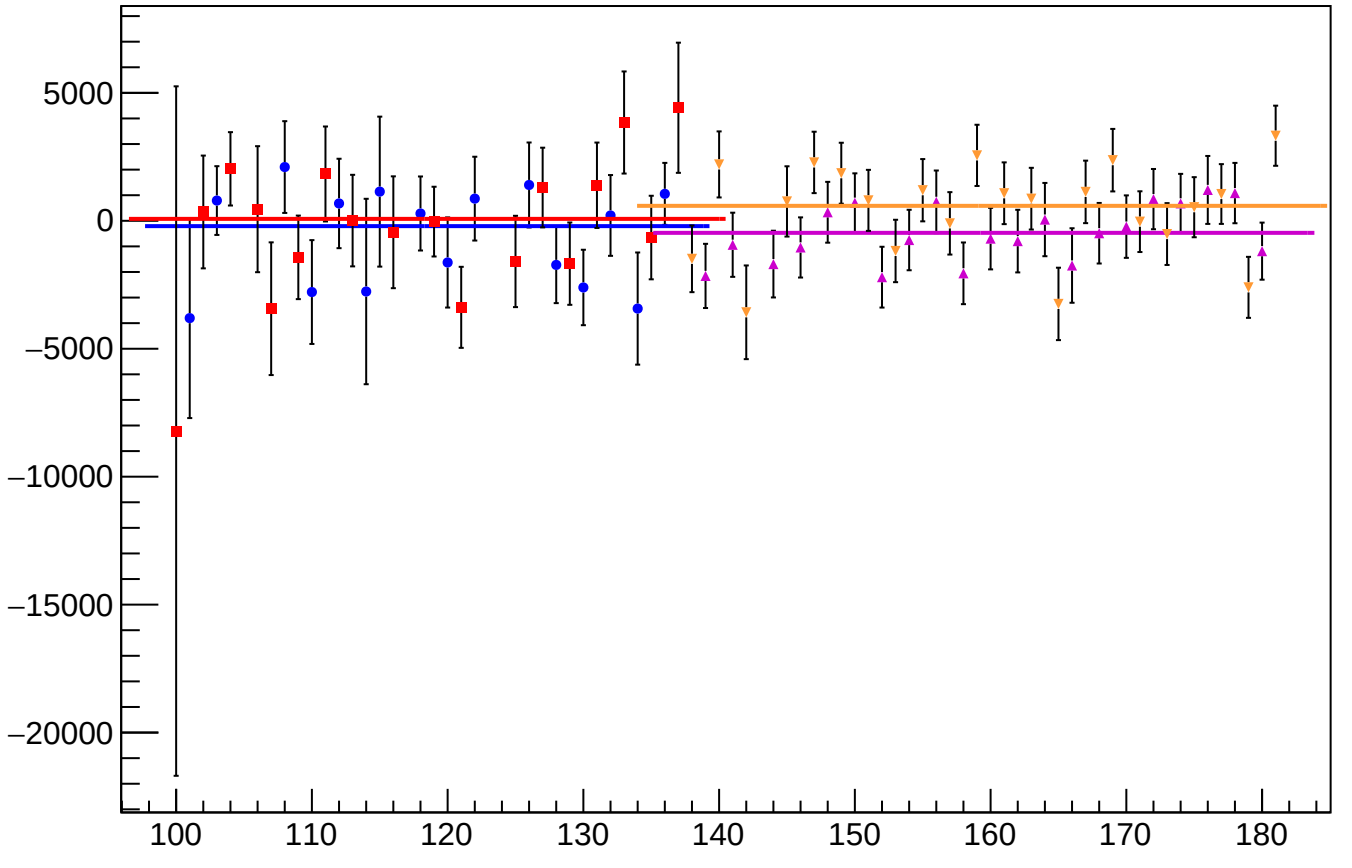
Left: 3503.668+/-0.429 $\chi^2$/NDF: 2083835.1/42

Right: 490.202+/-0.165 $\chi^2$/NDF: 18967100.3/33

In: 929.395+/-0.226 $\chi^2$/NDF:31695732.9/36

Out: 835.257+/-0.210 $\chi^2$/NDF:32262324.3/39

All: 878.946+/-0.154 $\chi^2$/NDF: 64050942.0/76




Right In: -208.110+/-429.155 $\chi^2$/NDF: 14.8/15

Left Out: 585.003+/-264.114 $\chi^2$/NDF:41.6/21

Right Out: 75.761+/-430.760 $\chi^2$/NDF: 20.7/17

Left In: -470.481+/-266.323 $\chi^2$/NDF:16.5/20

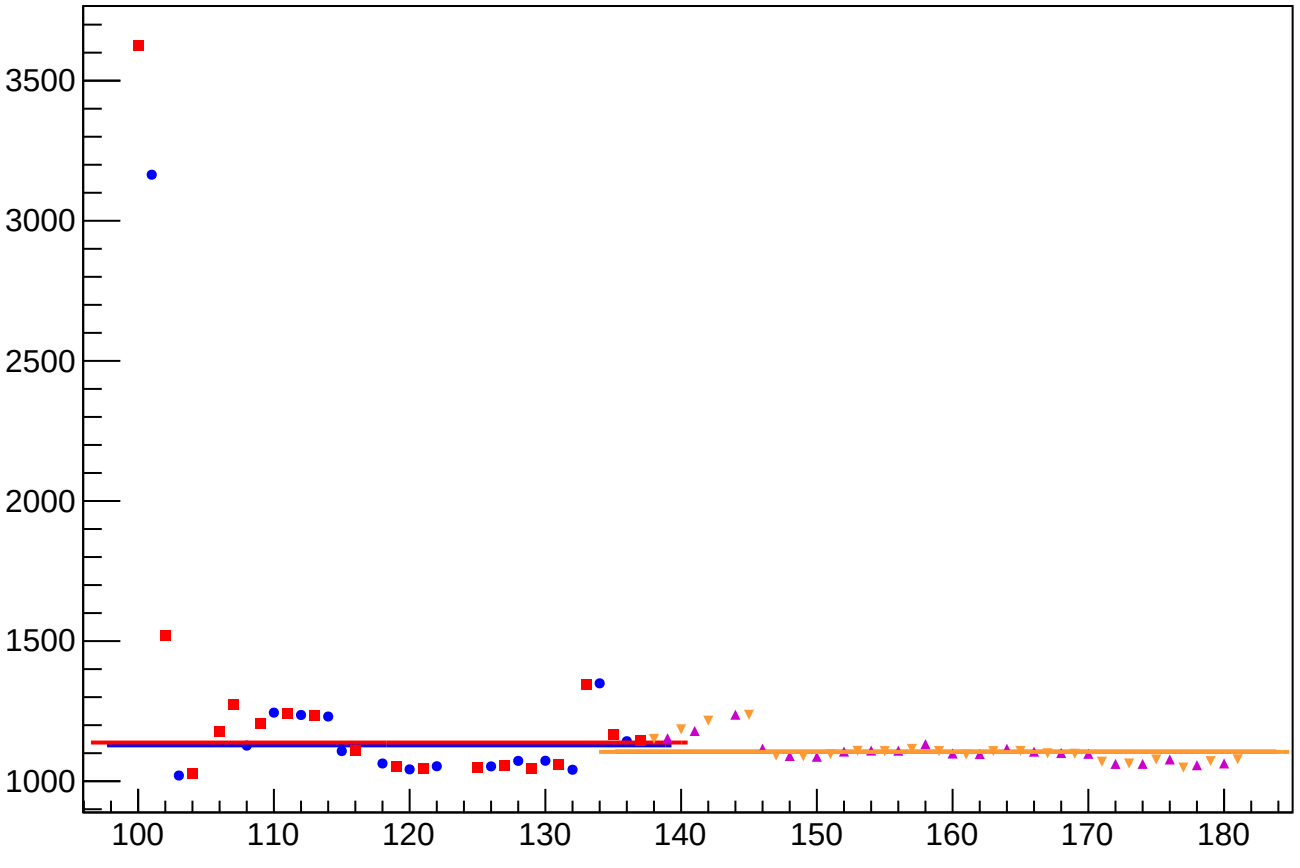
Left: 61.657+/-187.533 $\chi^2$/NDF: 66.0/42

Right: -66.705+/-304.024 $\chi^2$/NDF: 35.6/33

In: -397.531+/-226.291 $\chi^2$/NDF:31.5/36

Out: 445.867+/-225.161 $\chi^2$/NDF:63.2/39

All: 26.278+/-159.611 $\chi^2$/NDF: 101.7/76




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621395.6/15

Left Out: 1104.522+/-0.187 $\chi^2$/NDF:49740.6/21

Right Out: 1138.000+/-0.304 $\chi^2$/NDF: 220624.5/17

Left In: 1105.497+/-0.188 $\chi^2$/NDF:45419.5/20

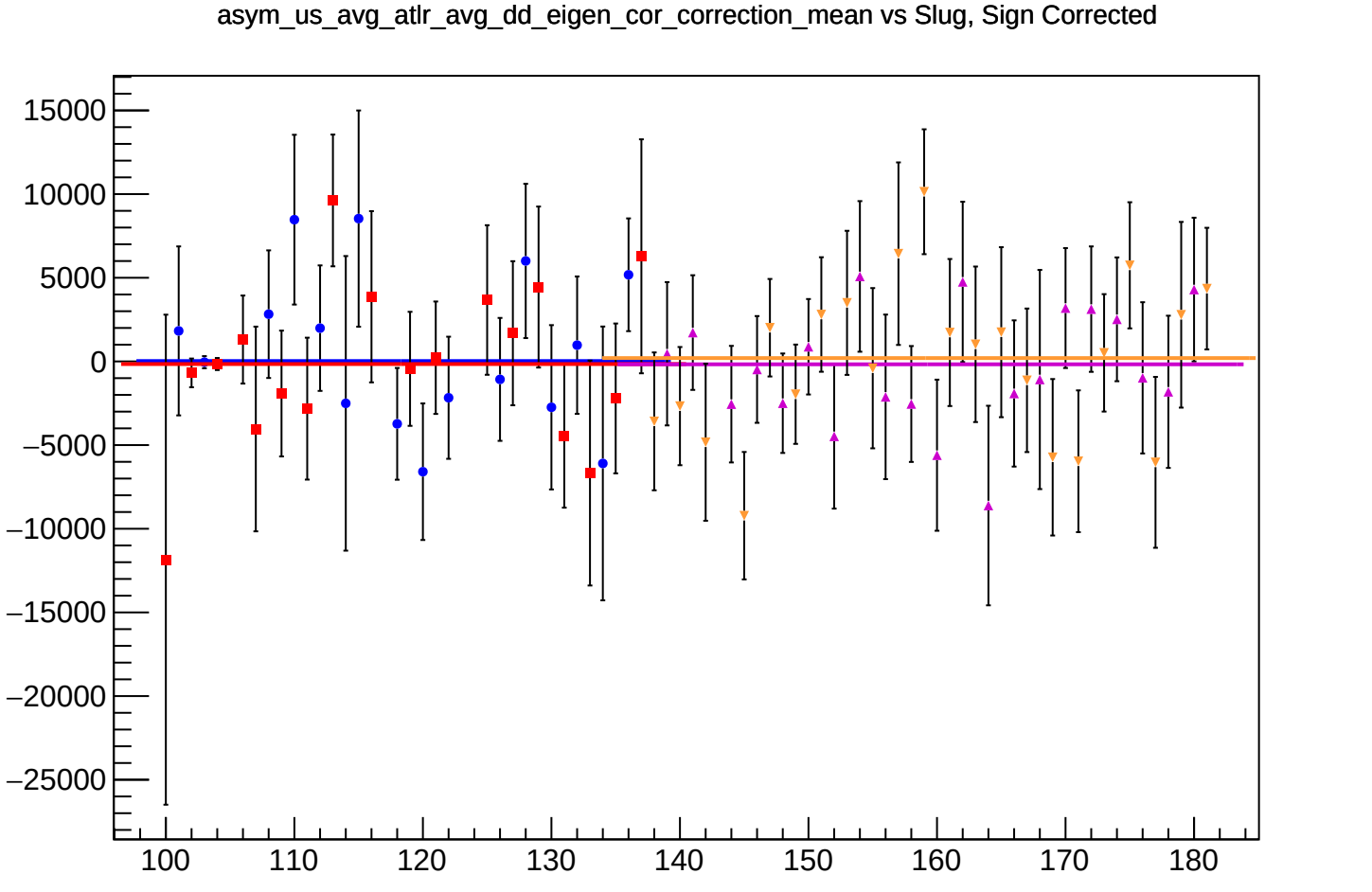
Left: 1105.006+/-0.133 $\chi^2$/NDF: 95173.6/42

Right: 1132.987+/-0.215 $\chi^2$/NDF: 842560.5/33

In: 1111.756+/-0.160 $\chi^2$/NDF:670787.6/36

Out: 1113.676+/-0.159 $\chi^2$/NDF:279151.6/39

All: 1112.721+/-0.113 $\chi^2$/NDF: 950011.6/76




Right In: 21.645+/-344.525 $\chi^2$/NDF: 14.9/15

Left Out: 199.765+/-856.237 $\chi^2$/NDF:28.5/21

Right Out: -156.231+/-317.367 $\chi^2$/NDF: 14.0/17

Left In: -172.216+/-859.310 $\chi^2$/NDF:12.6/20

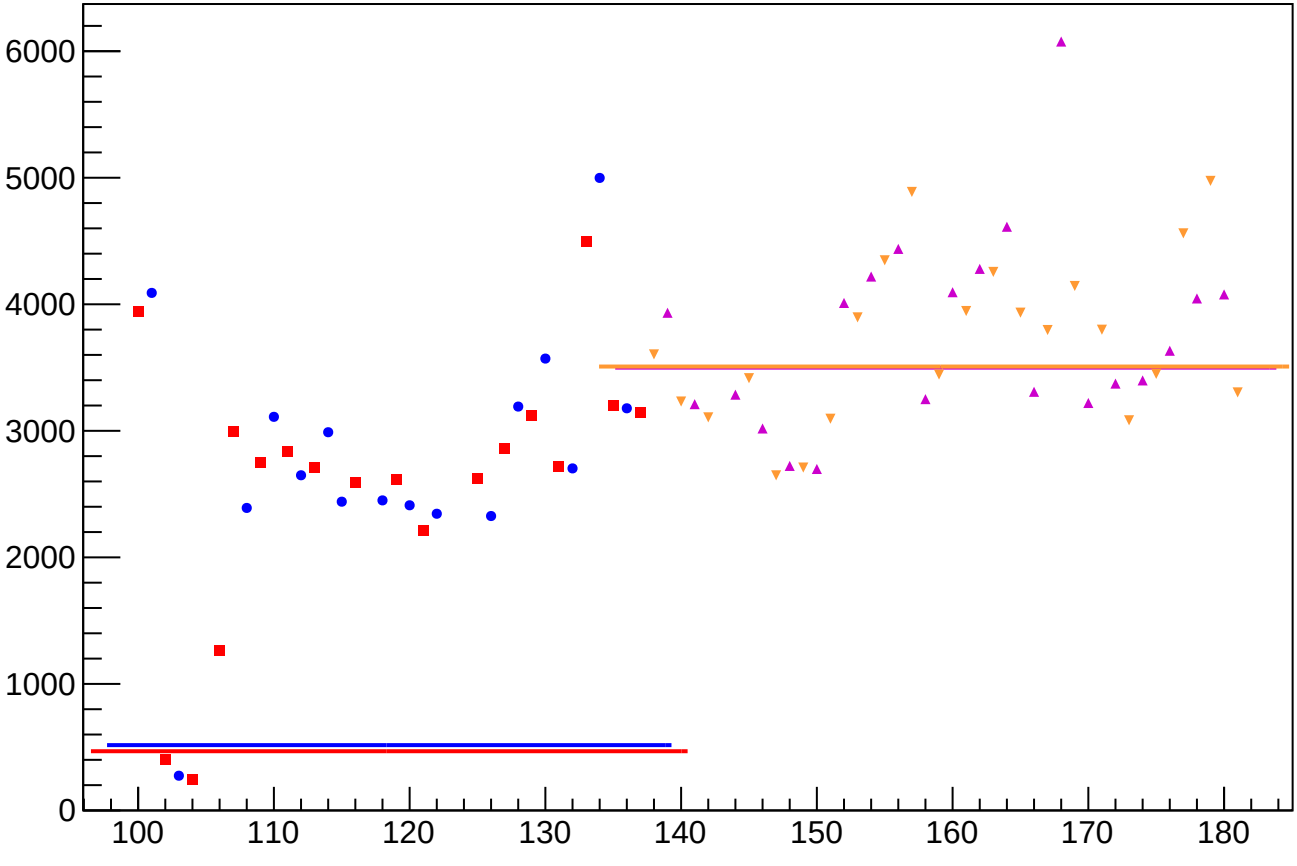
Left: 14.441+/-606.534 $\chi^2$/NDF: 41.3/42

Right: -74.579+/-233.424 $\chi^2$/NDF: 29.0/33

In: -5.202+/-319.781 $\chi^2$/NDF:27.6/36

Out: -113.230+/-297.583 $\chi^2$/NDF:42.7/39

All: -63.095+/-217.848 $\chi^2$/NDF: 70.3/76




Right In: 516.297+/-0.244 $\chi^2$/NDF: 9834669.6/15

Left Out: 3508.040+/-0.605 $\chi^2$/NDF:985646.8/21

Right Out: 468.060+/-0.224 $\chi^2$/NDF: 9111222.0/17

Left In: 3499.264+/-0.608 $\chi^2$/NDF:1098083.6/20

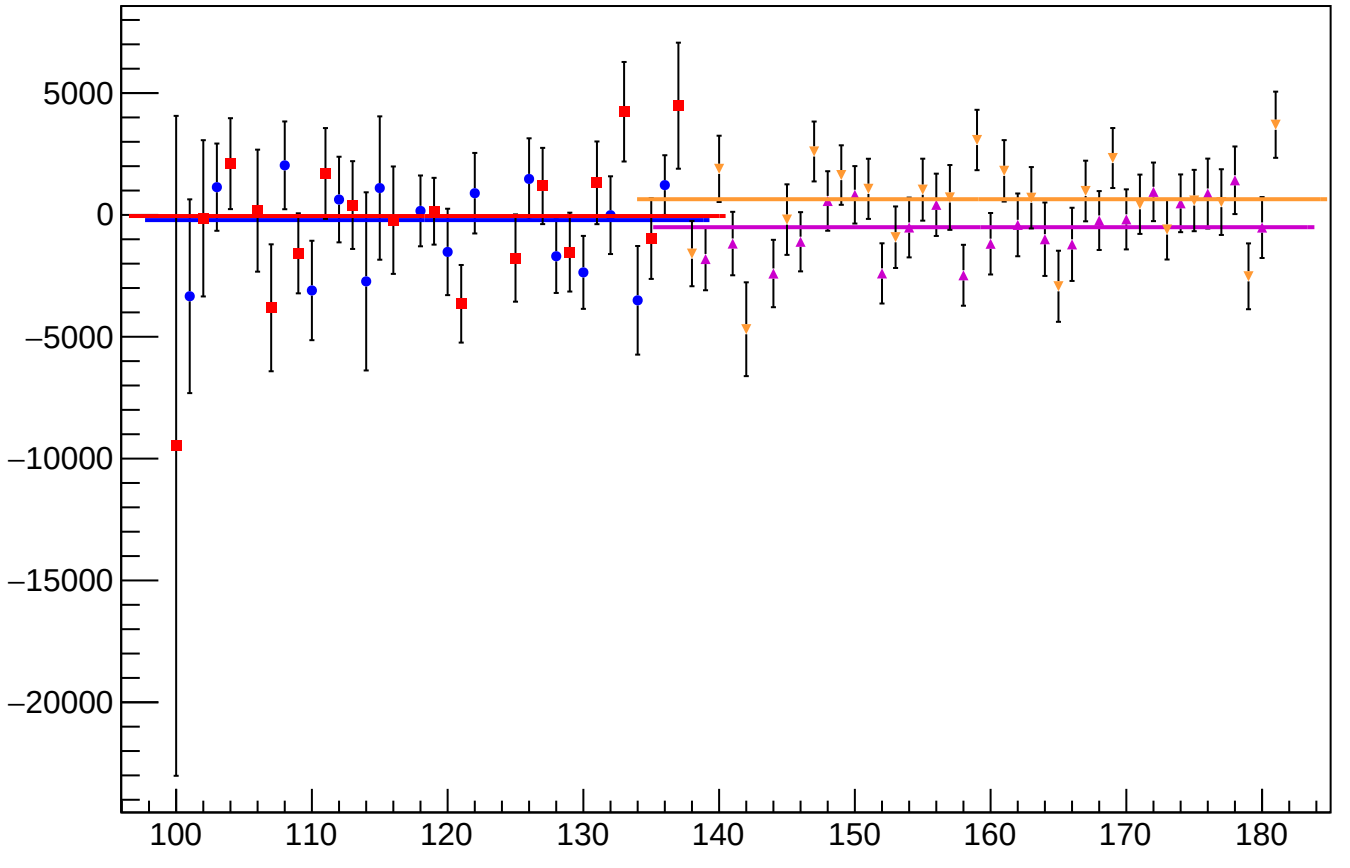
Left: 3503.668+/-0.429 $\chi^2$/NDF: 2083835.1/42

Right: 490.202+/-0.165 $\chi^2$/NDF: 18967100.3/33

In: 929.395+/-0.226 $\chi^2$/NDF:31695732.9/36

Out: 835.257+/-0.210 $\chi^2$/NDF:32262324.3/39

All: 878.946+/-0.154 $\chi^2$/NDF: 64050942.0/76




Right In: -213.079+/-442.684 $\chi^2$/NDF: 14.3/15

Left Out: 644.535+/-277.986 $\chi^2$/NDF:40.9/21

Right Out: -45.535+/-447.221 $\chi^2$/NDF: 21.7/17

Left In: -503.728+/-278.764 $\chi^2$/NDF:16.6/20

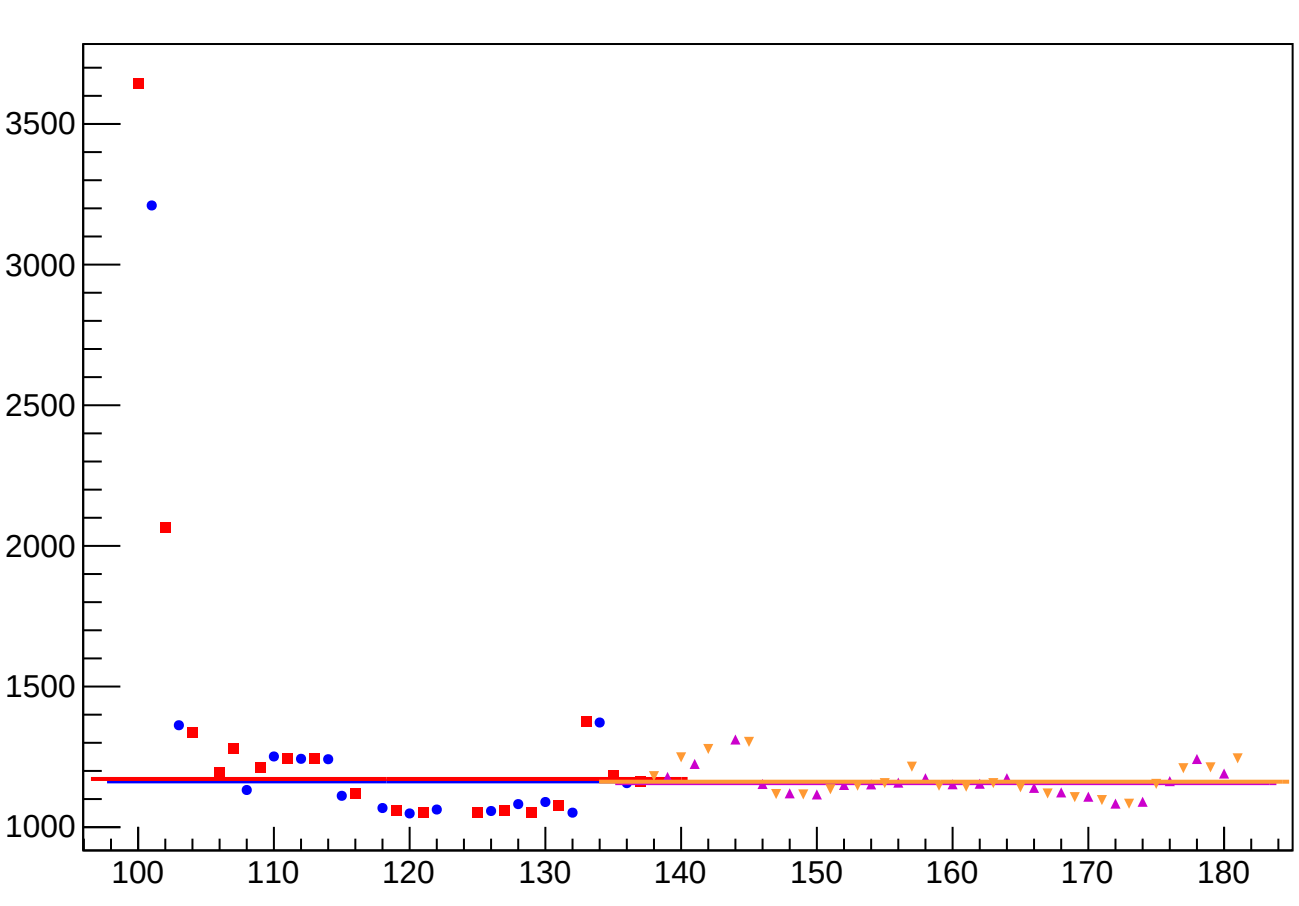
Left: 72.007+/-196.840 $\chi^2$/NDF: 65.9/42

Right: -130.161+/-314.617 $\chi^2$/NDF: 36.1/33

In: -421.200+/-235.890 $\chi^2$/NDF:31.2/36

Out: 452.218+/-236.094 $\chi^2$/NDF:64.2/39

All: 15.133+/-166.871 $\chi^2$/NDF: 102.3/76




Right In: 1162.851+/-0.313 $\chi^2$/NDF: 635353.4/15

Left Out: 1161.675+/-0.197 $\chi^2$/NDF:78810.6/21

Right Out: 1171.420+/-0.316 $\chi^2$/NDF: 331640.8/17

Left In: 1156.585+/-0.197 $\chi^2$/NDF:63712.8/20

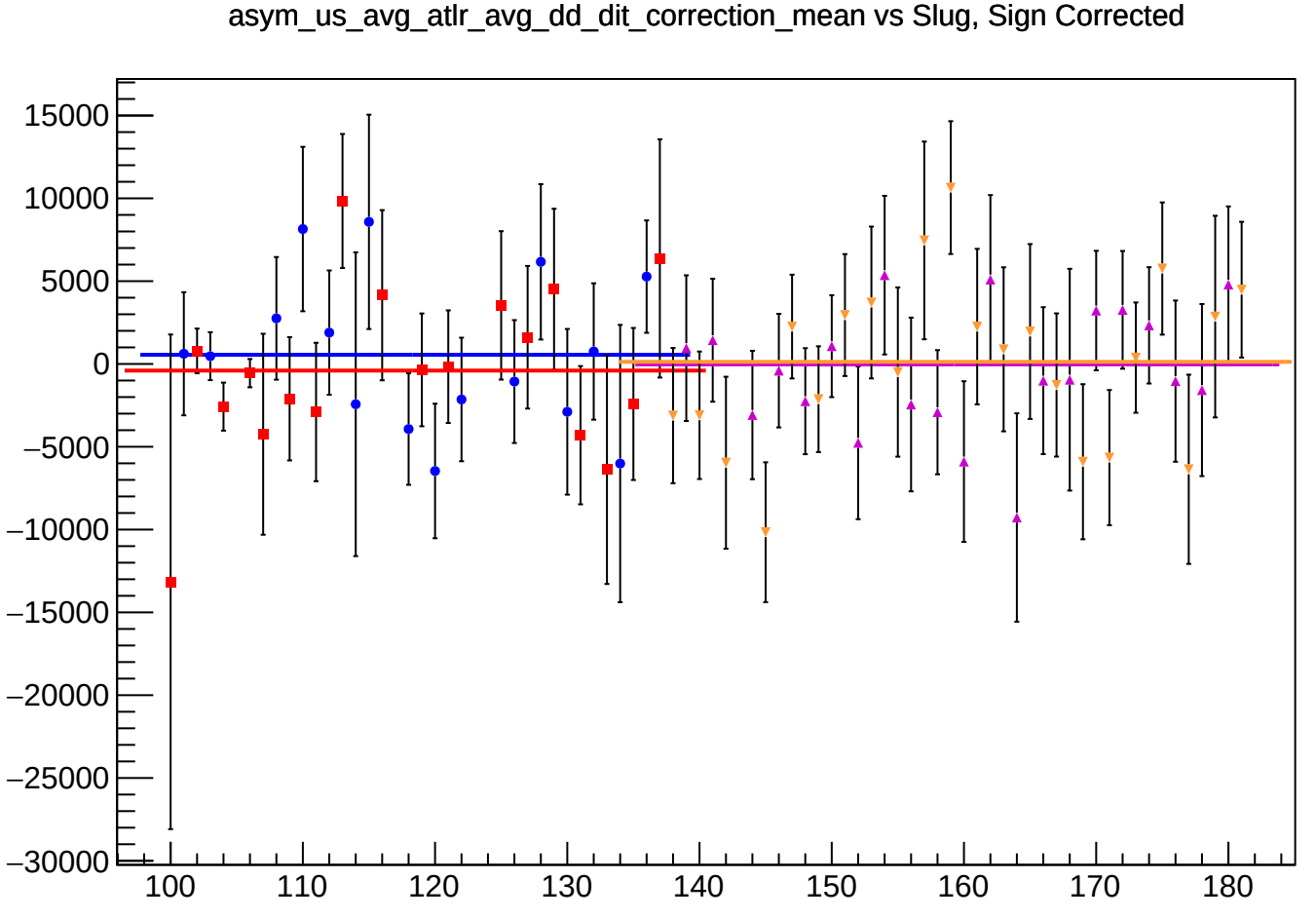
Left: 1159.137+/-0.139 $\chi^2$/NDF: 142857.7/42

Right: 1167.094+/-0.222 $\chi^2$/NDF: 967365.3/33

In: 1158.364+/-0.167 $\chi^2$/NDF:699353.2/36

Out: 1164.393+/-0.167 $\chi^2$/NDF:411136.9/39

All: 1161.376+/-0.118 $\chi^2$/NDF: 1111142.8/76




Right In: 552.517+/-874.128 $\chi^2$/NDF: 14.4/15

Left Out: 129.334+/-904.603 $\chi^2$/NDF:28.0/21

Right Out: -400.432+/-565.871 $\chi^2$/NDF: 16.7/17

Left In: -25.152+/-906.215 $\chi^2$/NDF:12.6/20

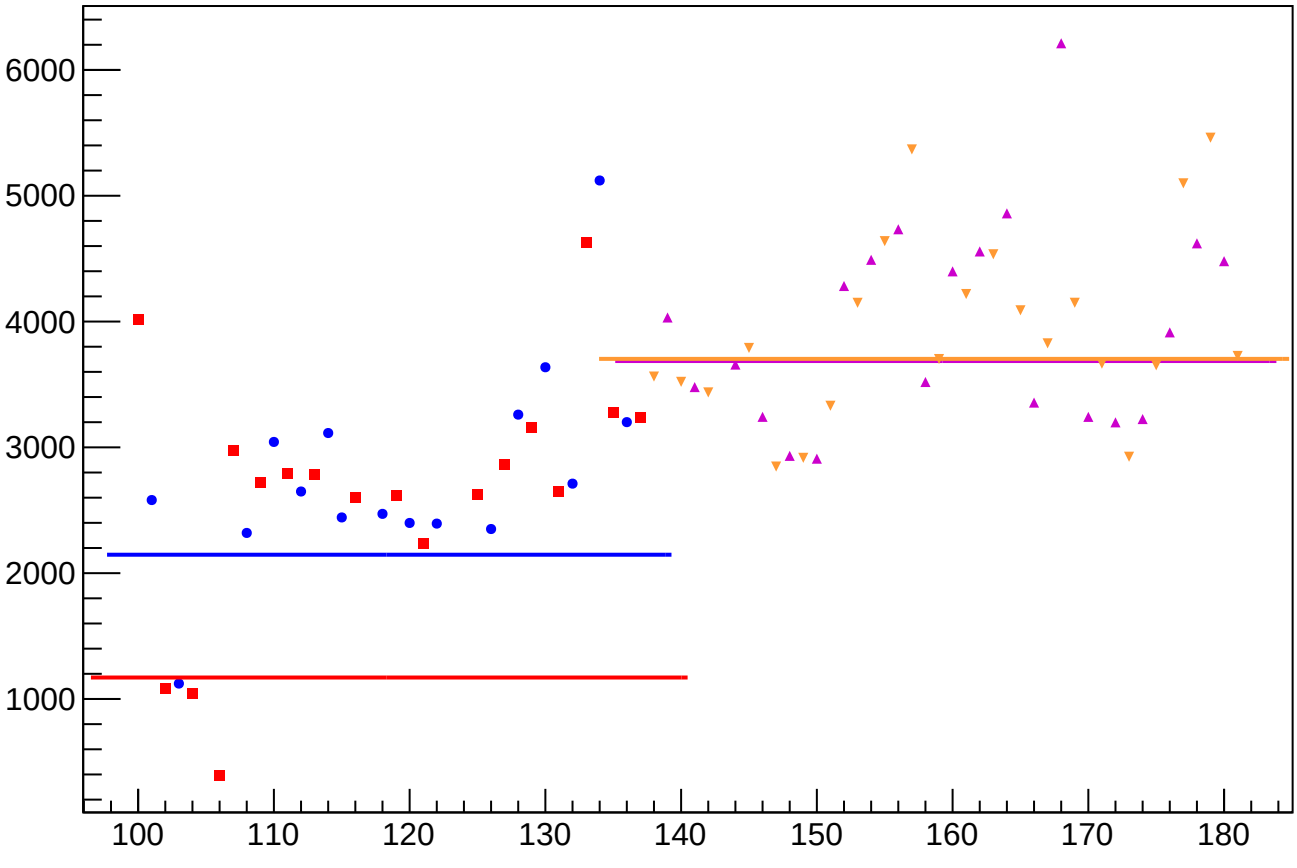
Left: 52.228+/-640.220 $\chi^2$/NDF: 40.5/42

Right: -119.015+/-475.024 $\chi^2$/NDF: 31.9/33

In: 274.090+/-629.140 $\chi^2$/NDF:27.2/36

Out: -251.434+/-479.740 $\chi^2$/NDF:44.9/39

All: -58.214+/-381.485 $\chi^2$/NDF: 72.5/76




Right In: 2146.616+/-0.618 $\chi^2$/NDF: 1974723.6/15

Left Out: 3703.336+/-0.640 $\chi^2$/NDF:1052254.7/21

Right Out: 1170.573+/-0.400 $\chi^2$/NDF: 5817478.8/17

Left In: 3686.193+/-0.641 $\chi^2$/NDF:1158886.1/20

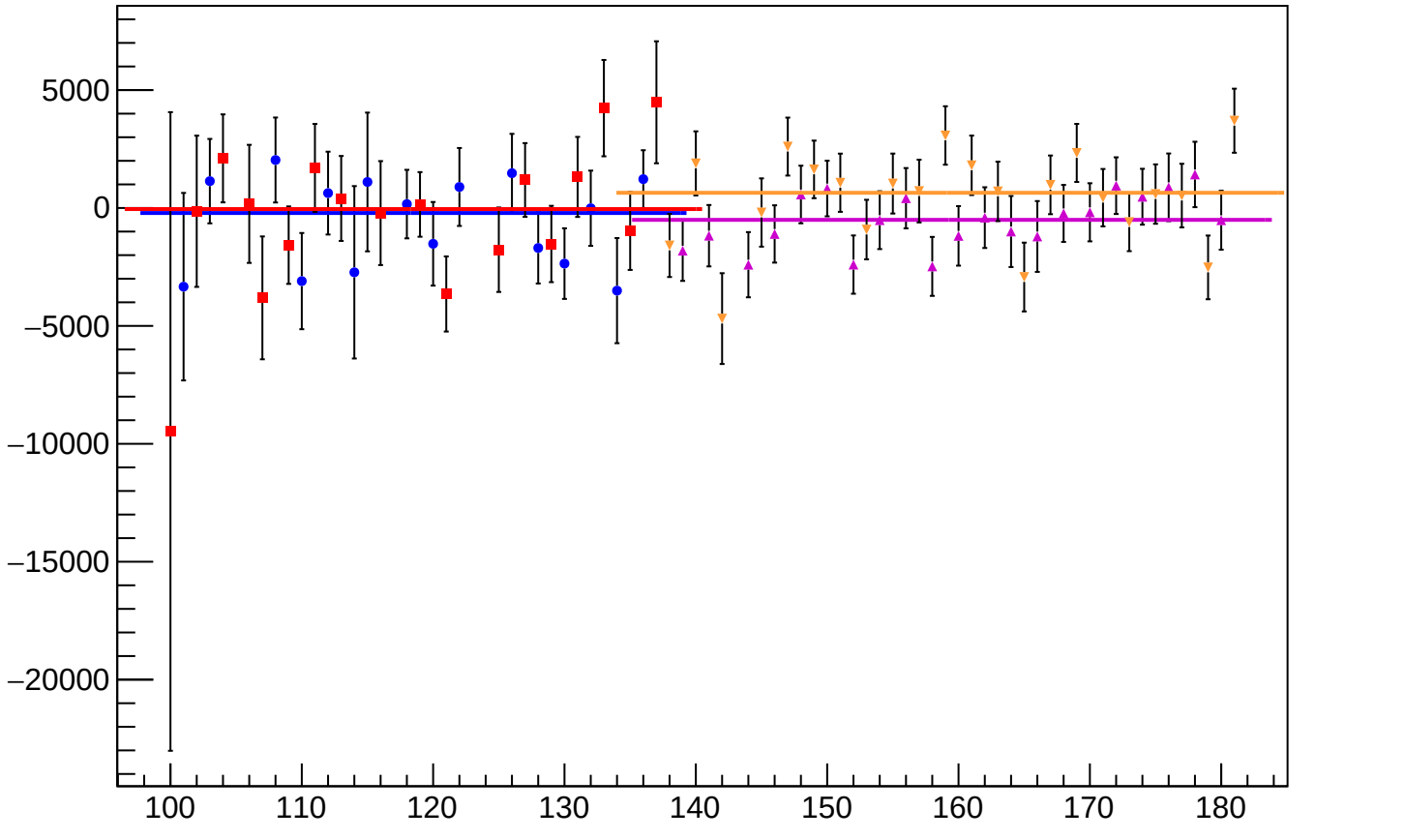
Left: 3694.780+/-0.453 $\chi^2$/NDF: 2211499.3/42

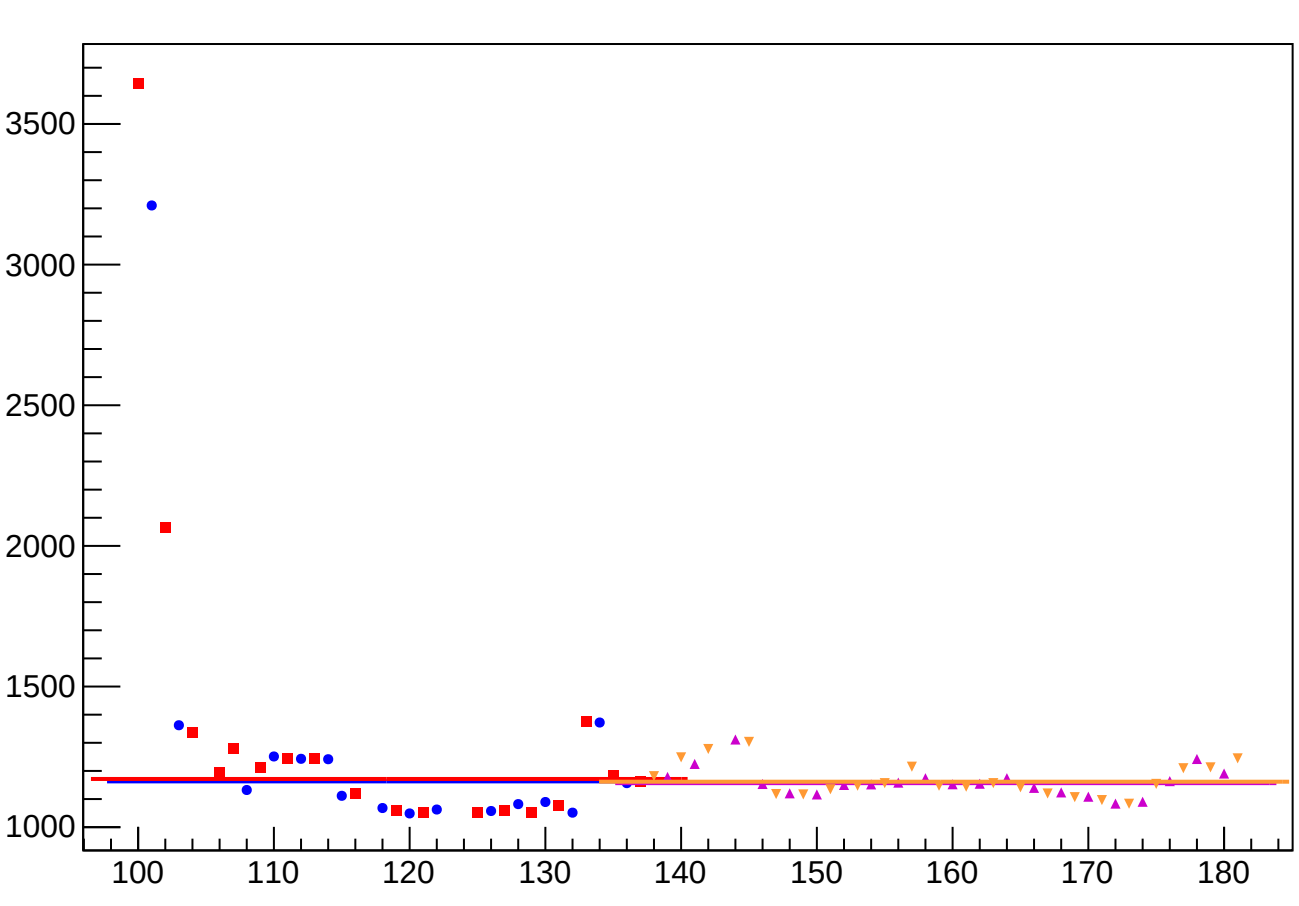
Right: 1458.811+/-0.336 $\chi^2$/NDF: 9549375.1/33

In: 2888.666+/-0.445 $\chi^2$/NDF:6123909.2/36

Out: 1882.918+/-0.339 $\chi^2$/NDF:18138592.6/39

All: 2252.703+/-0.270 $\chi^2$/NDF: 27494398.6/7


eigen_dit_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
100
110
120
130
140
150
160
170
180
Right In: -213.082+/-442.684 χ²/NDF: 14.3/15
Left Out: 644.537+/-277.987 χ²/NDF:40.9/21
Right Out: -45.539+/-447.221 χ²/NDF: 21.7/17
Left In: -503.727+/-278.764 χ²/NDF:16.6/20
Left: 72.008+/-196.841 χ²/NDF: 65.9/42
Right: -130.164+/-314.617 χ²/NDF: 36.1/33
In: -421.200+/-235.891 χ²/NDF:31.2/36
Out: 452.218+/-236.094 χ²/NDF:64.2/39
All: 15.133+/-166.872 χ²/NDF: 102.3/76




Right In: 1162.851+/-0.313 $\chi^2$/NDF: 635353.6/15

Left Out: 1161.676+/-0.197 $\chi^2$/NDF:78813.1/21

Right Out: 1171.420+/-0.316 $\chi^2$/NDF: 331640.4/17

Left In: 1156.586+/-0.197 $\chi^2$/NDF:63715.3/20

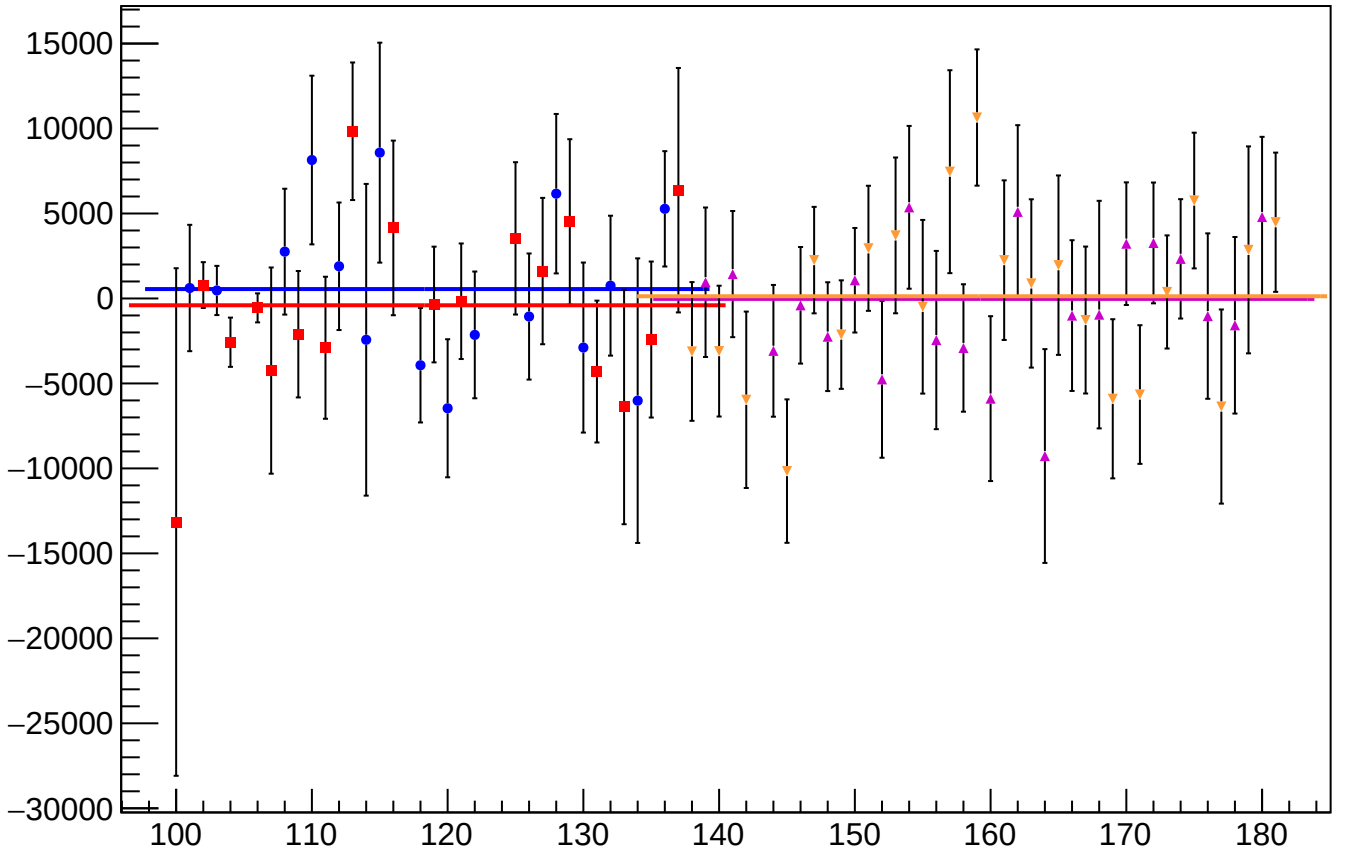
Left: 1159.138+/-0.139 $\chi^2$/NDF: 142862.7/42

Right: 1167.094+/-0.222 $\chi^2$/NDF: 967365.1/33

In: 1158.365+/-0.167 $\chi^2$/NDF:699355.7/36

Out: 1164.394+/-0.167 $\chi^2$/NDF:411138.9/39

All: 1161.377+/-0.118 $\chi^2$/NDF: 1111147.3/76




Right In: 552.510+/-874.126 $\chi^2$/NDF: 14.4/15

Left Out: 129.333+/-904.604 $\chi^2$/NDF:28.0/21

Right Out: -400.433+/-565.864 $\chi^2$/NDF: 16.7/17

Left In: -25.151+/-906.216 $\chi^2$/NDF:12.6/20

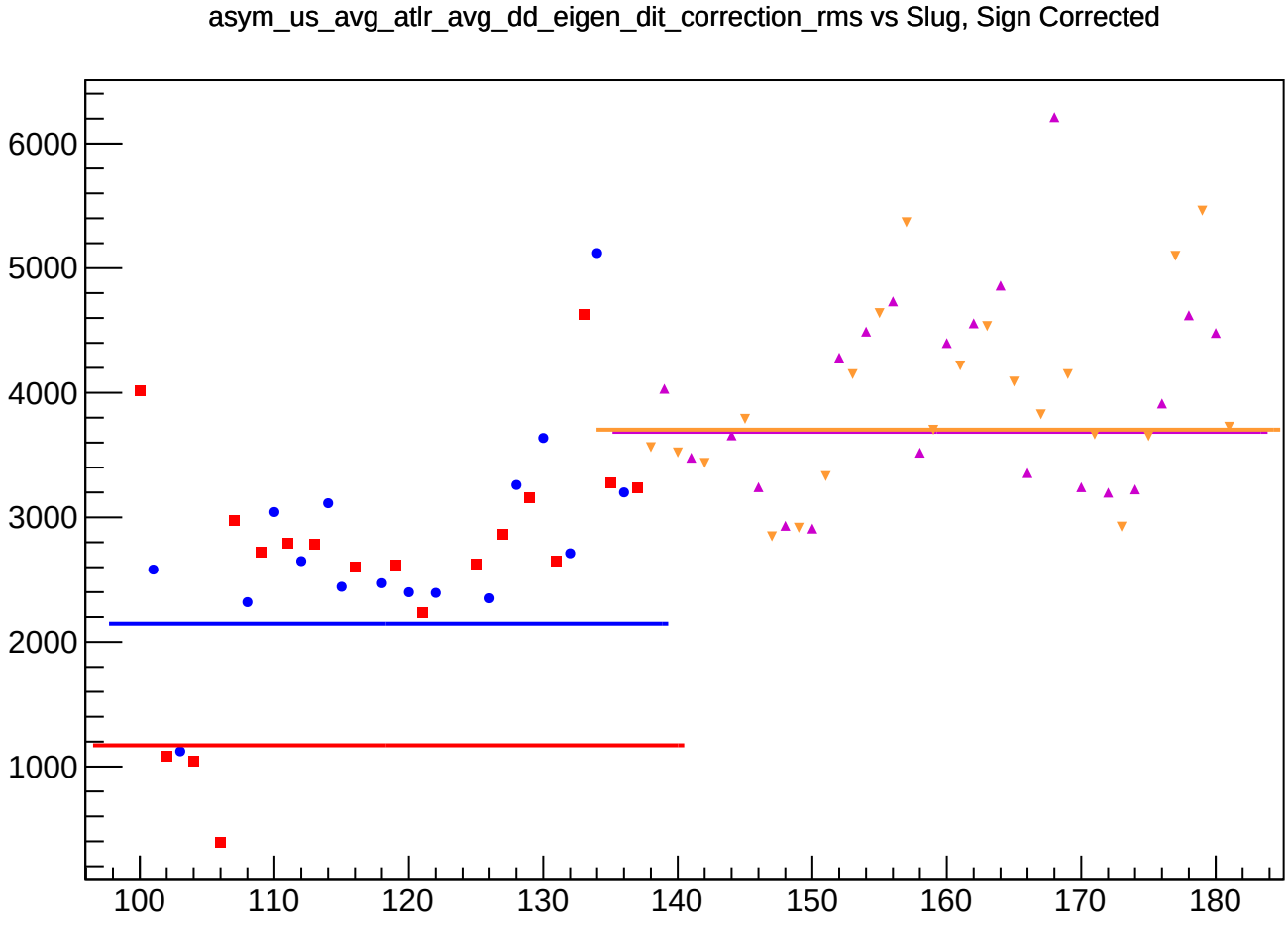
Left: 52.228+/-640.221 $\chi^2$/NDF: 40.5/42

Right: -119.022+/-475.020 $\chi^2$/NDF: 31.9/33

In: 274.088+/-629.139 $\chi^2$/NDF:27.2/36

Out: -251.438+/-479.736 $\chi^2$/NDF:44.9/39

All: -58.219+/-381.483 $\chi^2$/NDF: 72.5/76




Right In: 2146.613+/-0.618 $\chi^2$/NDF: 1974719.3/15

Left Out: 3703.342+/-0.640 $\chi^2$/NDF:1052257.5/21

Right Out: 1170.550+/-0.400 $\chi^2$/NDF: 5817605.6/17

Left In: 3686.199+/-0.641 $\chi^2$/NDF:1158889.9/20

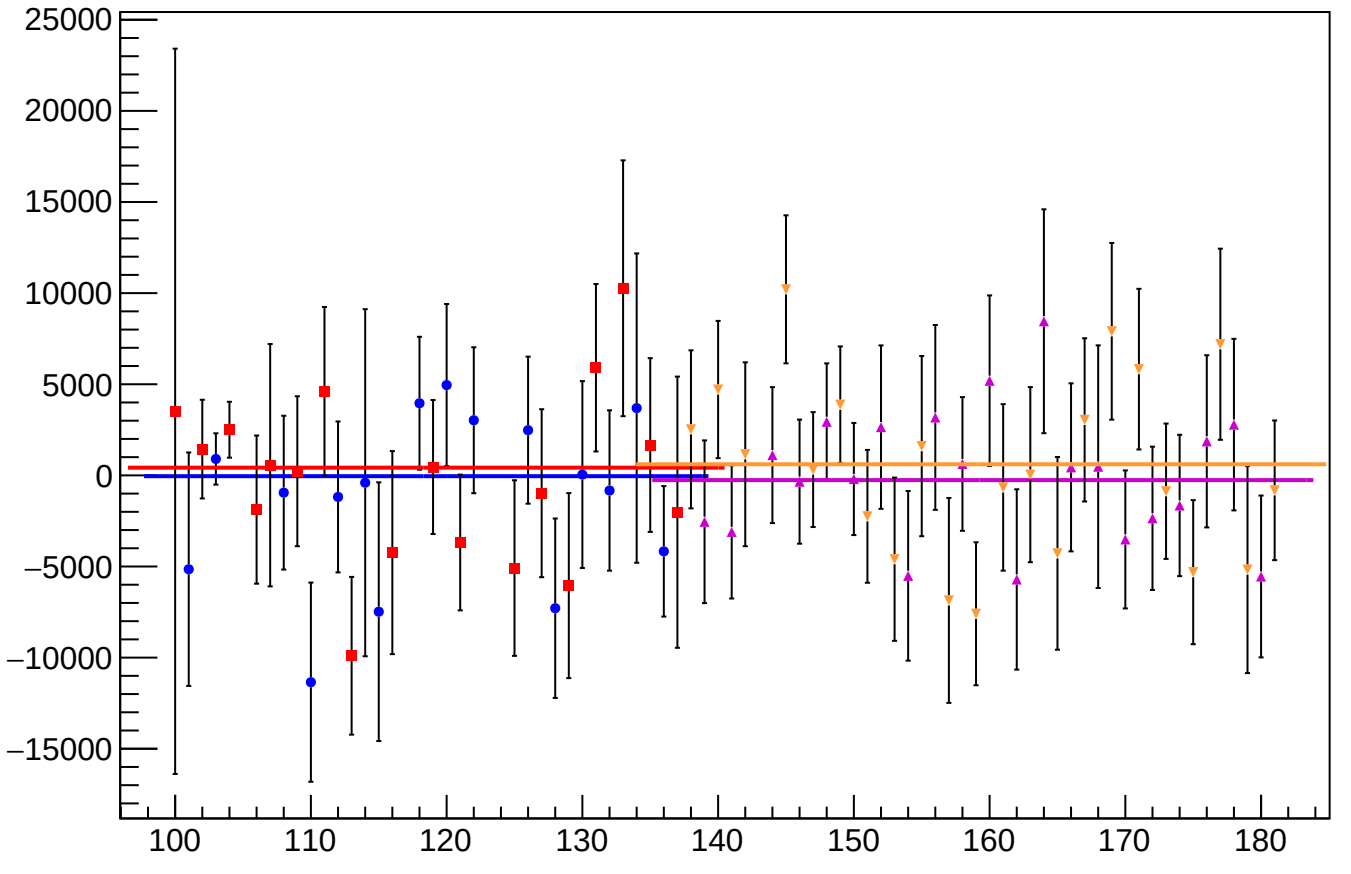
Left: 3694.785+/-0.453 $\chi^2$/NDF: 2211506.0/42

Right: 1458.789+/-0.336 $\chi^2$/NDF: 9549586.1/33

In: 2888.665+/-0.445 $\chi^2$/NDF:6123941.1/36

Out: 1882.889+/-0.339 $\chi^2$/NDF:18139027.7/39

All: 2252.680+/-0.270 $\chi^2$/NDF: 27495062.5/7




Right In: -44.874+/-920.736 $\chi^2$/NDF: 13.7/15

Left Out: 608.468+/-902.564 $\chi^2$/NDF:26.2/21

Right Out: 423.476+/-896.736 $\chi^2$/NDF: 17.3/17

Left In: -259.715+/-905.502 $\chi^2$/NDF:12.0/20

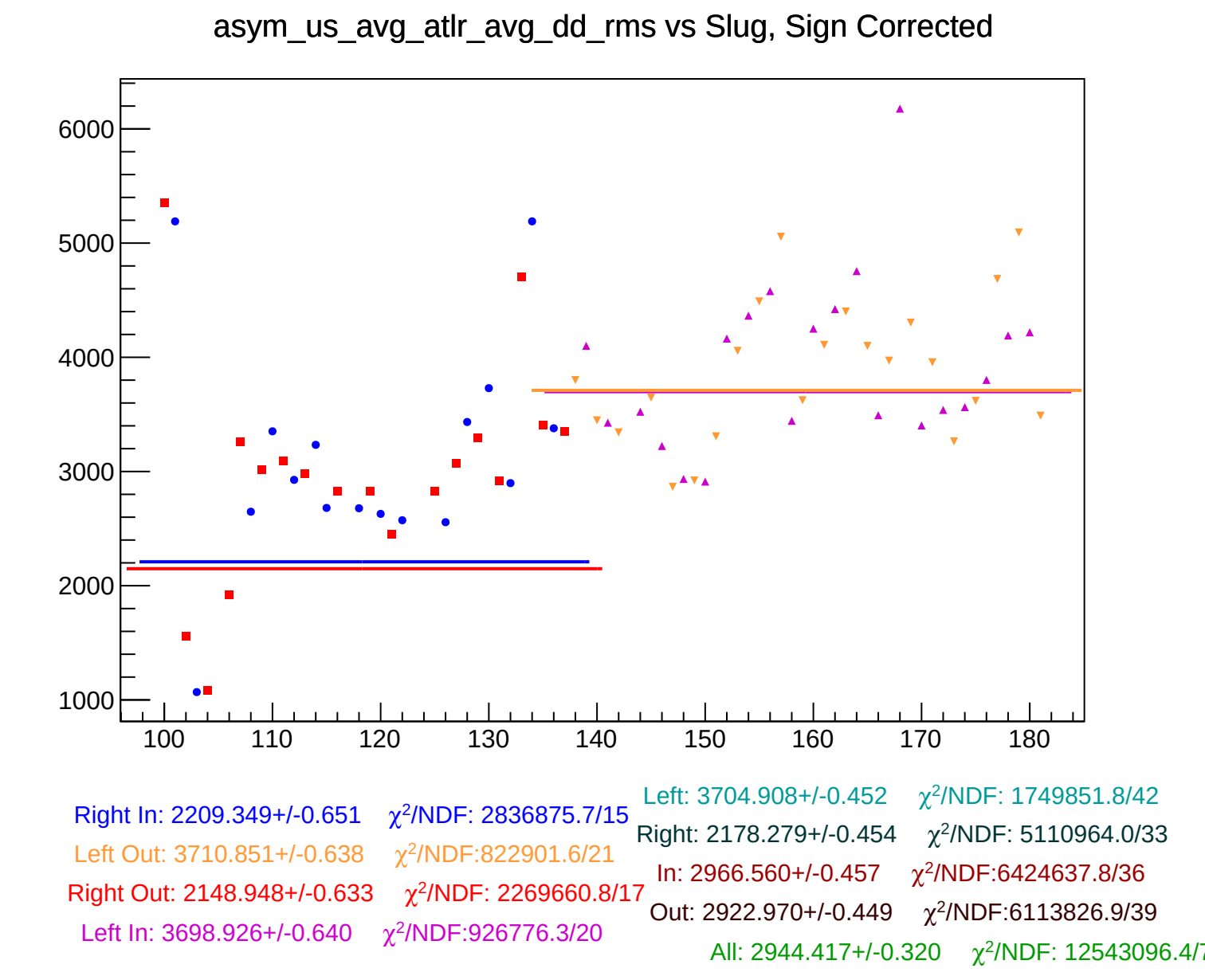
Left: 175.787+/-639.245 $\chi^2$/NDF: 38.7/42

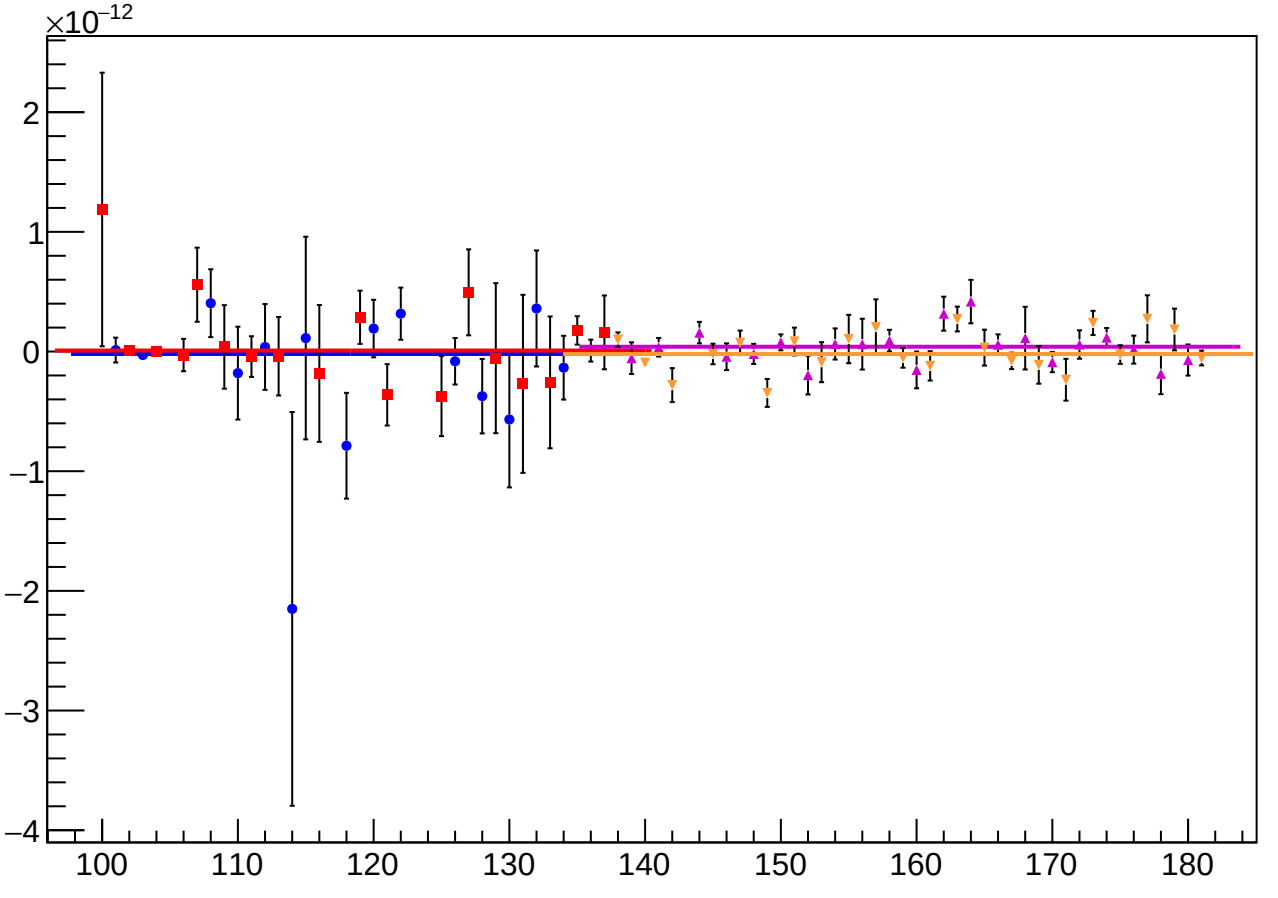
Right: 195.485+/-642.405 $\chi^2$/NDF: 31.2/33

In: -154.087+/-645.605 $\chi^2$/NDF:25.8/36

Out: 515.373+/-636.139 $\chi^2$/NDF:43.6/39

All: 185.587+/-453.128 $\chi^2$/NDF: 70.0/76


asym_us_avg_atlr_avg_dd_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
1000
100
110
120
130
140
150
160
170
180
Right In: 2209.349+/-0.651 χ²/NDF: 2836875.7/15
Left Out: 3710.851+/-0.638 χ²/NDF:822901.6/21
Right Out: 2148.948+/-0.633 χ²/NDF: 2269660.8/17
Left In: 3698.926+/-0.640 χ²/NDF:926776.3/20
Left: 3704.908+/-0.452 χ²/NDF: 1749851.8/42
Right: 2178.279+/-0.454 χ²/NDF: 5110964.0/33
In: 2966.560+/-0.457 χ²/NDF:6424637.8/36
Out: 2922.970+/-0.449 χ²/NDF:6113826.9/39
All: 2944.417+/-0.320 χ²/NDF: 12543096.4/7




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:43.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.8/20

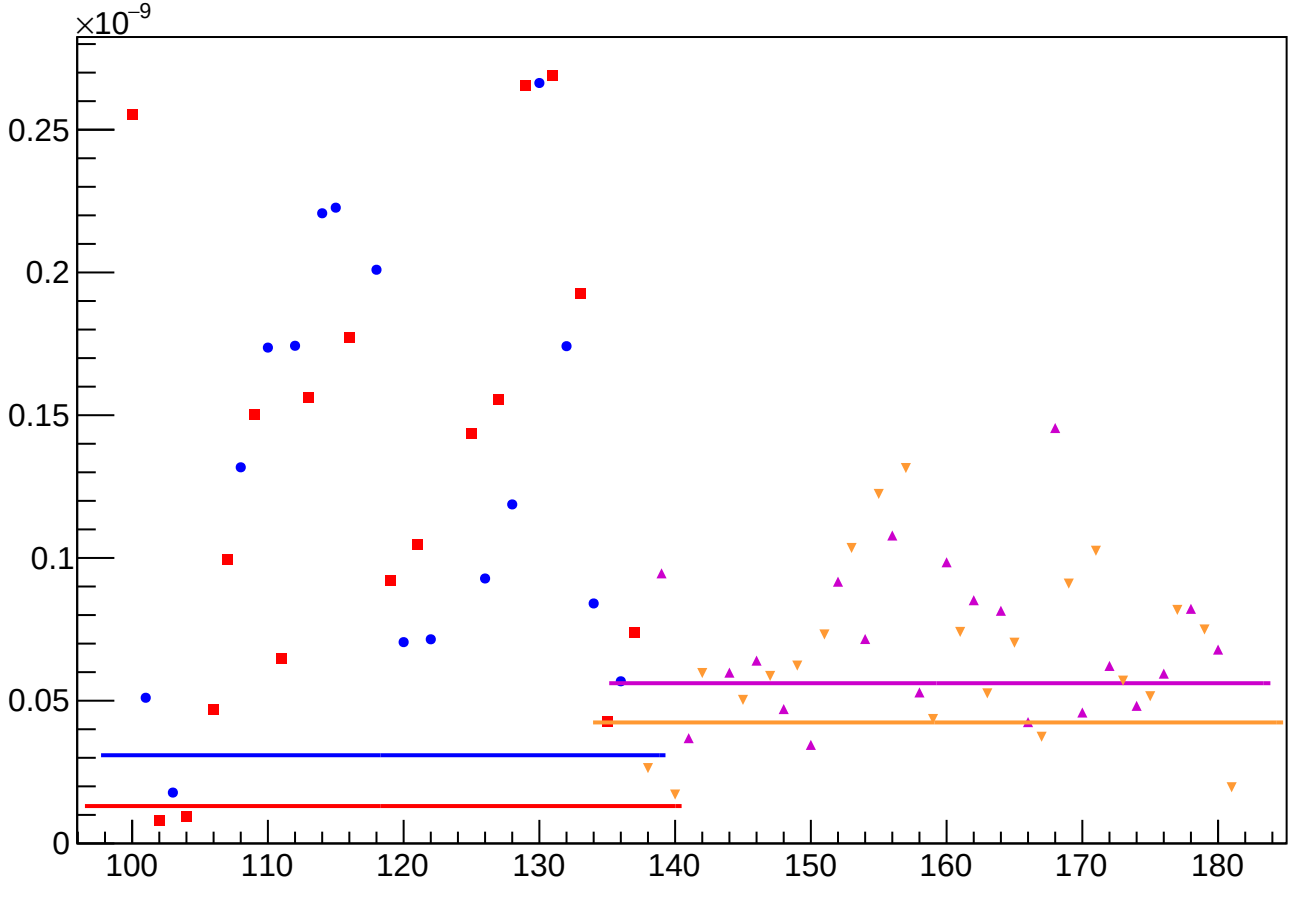
Left: 0.000+/-0.000 $\chi^2$/NDF: 69.1/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:38.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:58.8/39

All: 0.000+/-0.000 $\chi^2$/NDF: 97.8/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2998577.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3228643.4/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3659260.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1463089.8/20

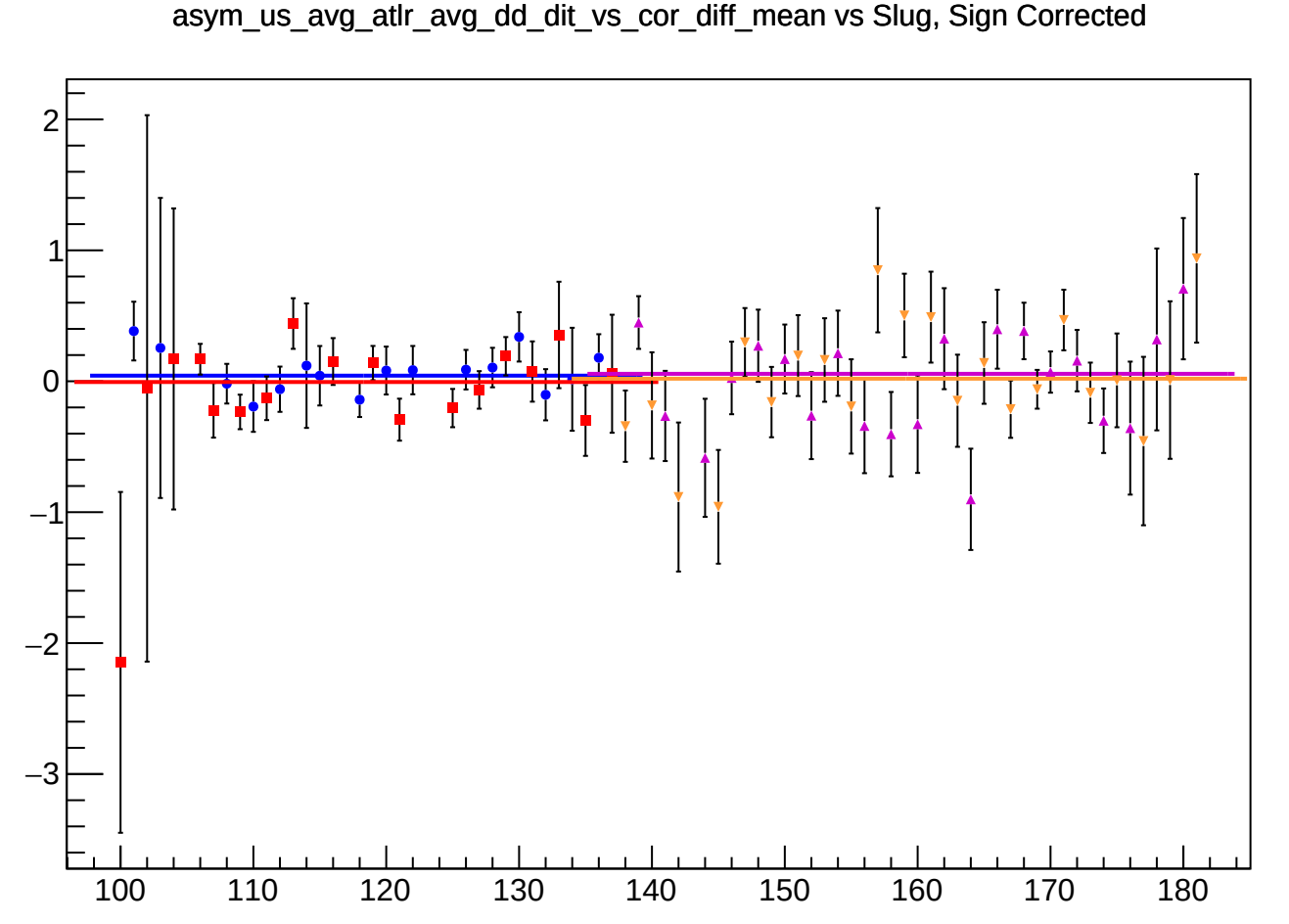
Left: 0.000+/-0.000 $\chi^2$/NDF: 5099378.1/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 7385142.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:5530139.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:9716636.4/39

All: 0.000+/-0.000 $\chi^2$/NDF: 17241848.9/76




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: 0.020+/-0.064 $\chi^2$/NDF:27.6/21

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.057+/-0.063 $\chi^2$/NDF:27.7/20

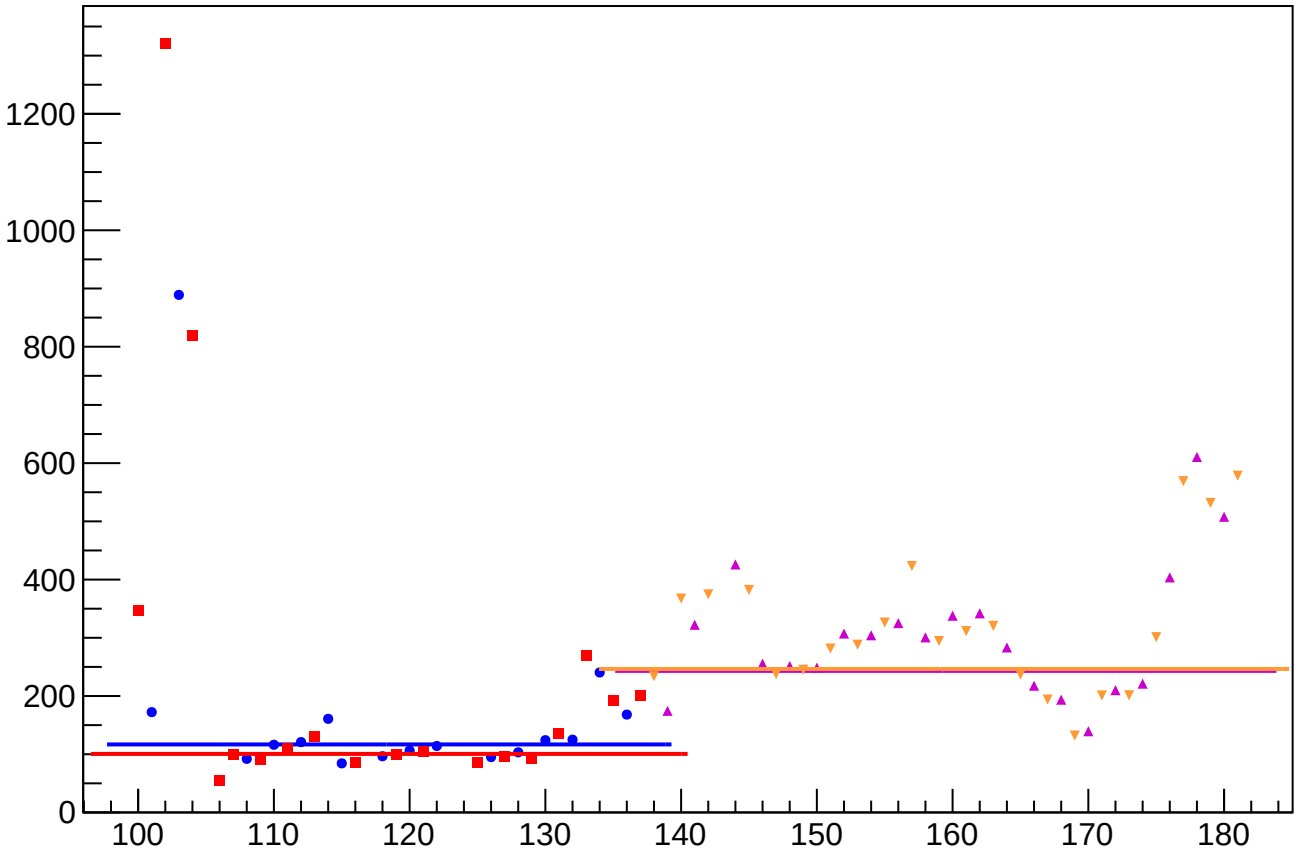
Left: 0.038+/-0.045 $\chi^2$/NDF: 55.5/42

Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.048+/-0.038 $\chi^2$/NDF:38.0/36

Out: 0.002+/-0.036 $\chi^2$/NDF:53.7/39

All: 0.024+/-0.026 $\chi^2$/NDF: 92.5/76




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620809.7/15

Left Out: 246.505+/-0.045 $\chi^2$/NDF:4116101.1/21

Right Out: 100.544+/-0.031 $\chi^2$/NDF: 2664151.6/17

Left In: 243.153+/-0.045 $\chi^2$/NDF:3551418.6/20

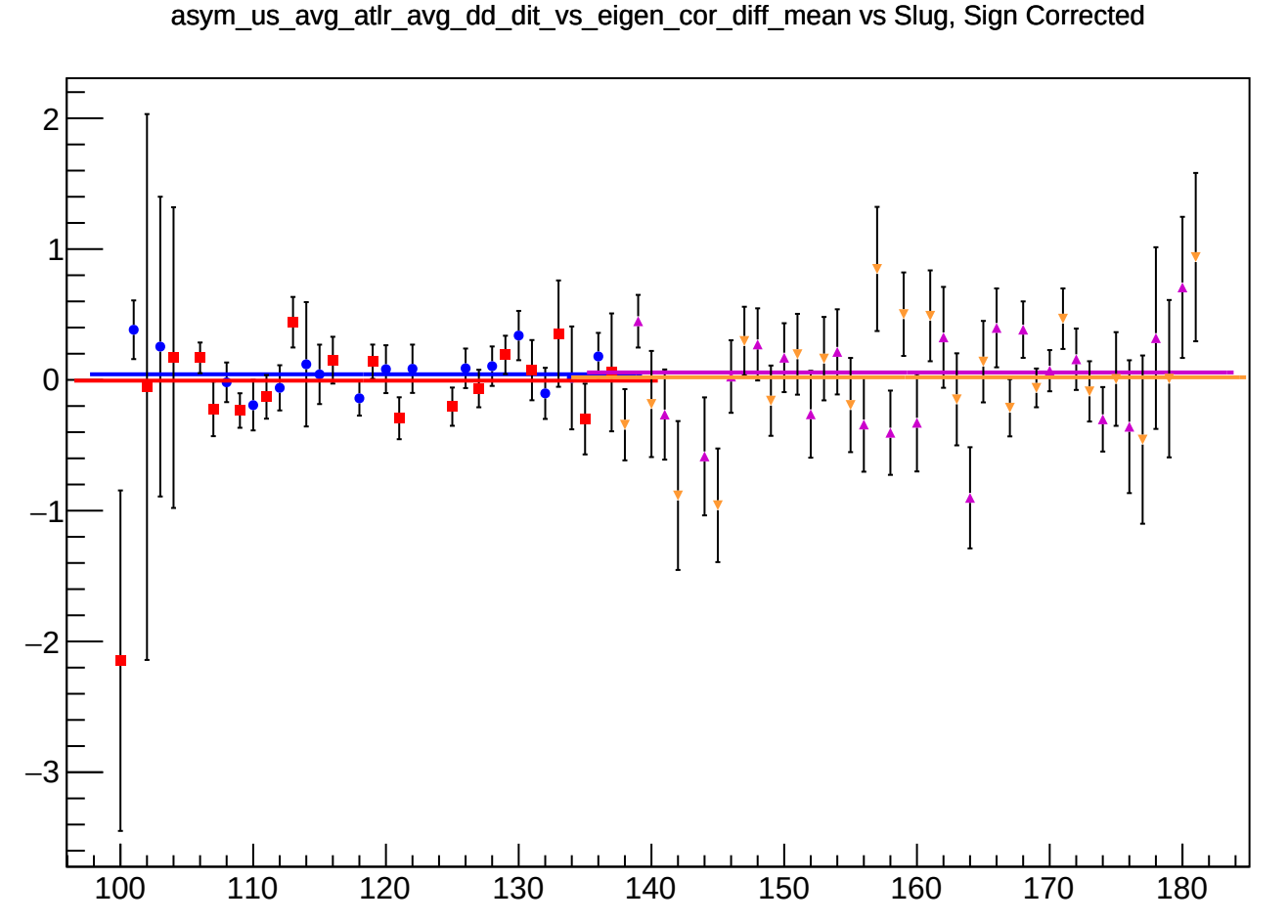
Left: 244.804+/-0.032 $\chi^2$/NDF: 7670307.7/42

Right: 107.961+/-0.023 $\chi^2$/NDF: 4413433.8/33

In: 162.561+/-0.027 $\chi^2$/NDF:10298702.4/36

Out: 146.547+/-0.025 $\chi^2$/NDF:13916339.5/39

All: 154.117+/-0.018 $\chi^2$/NDF: 24403160.0/76




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: 0.020+/-0.064 $\chi^2$/NDF:27.6/21

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.057+/-0.063 $\chi^2$/NDF:27.7/20

Left: 0.038+/-0.045 $\chi^2$/NDF: 55.5/42

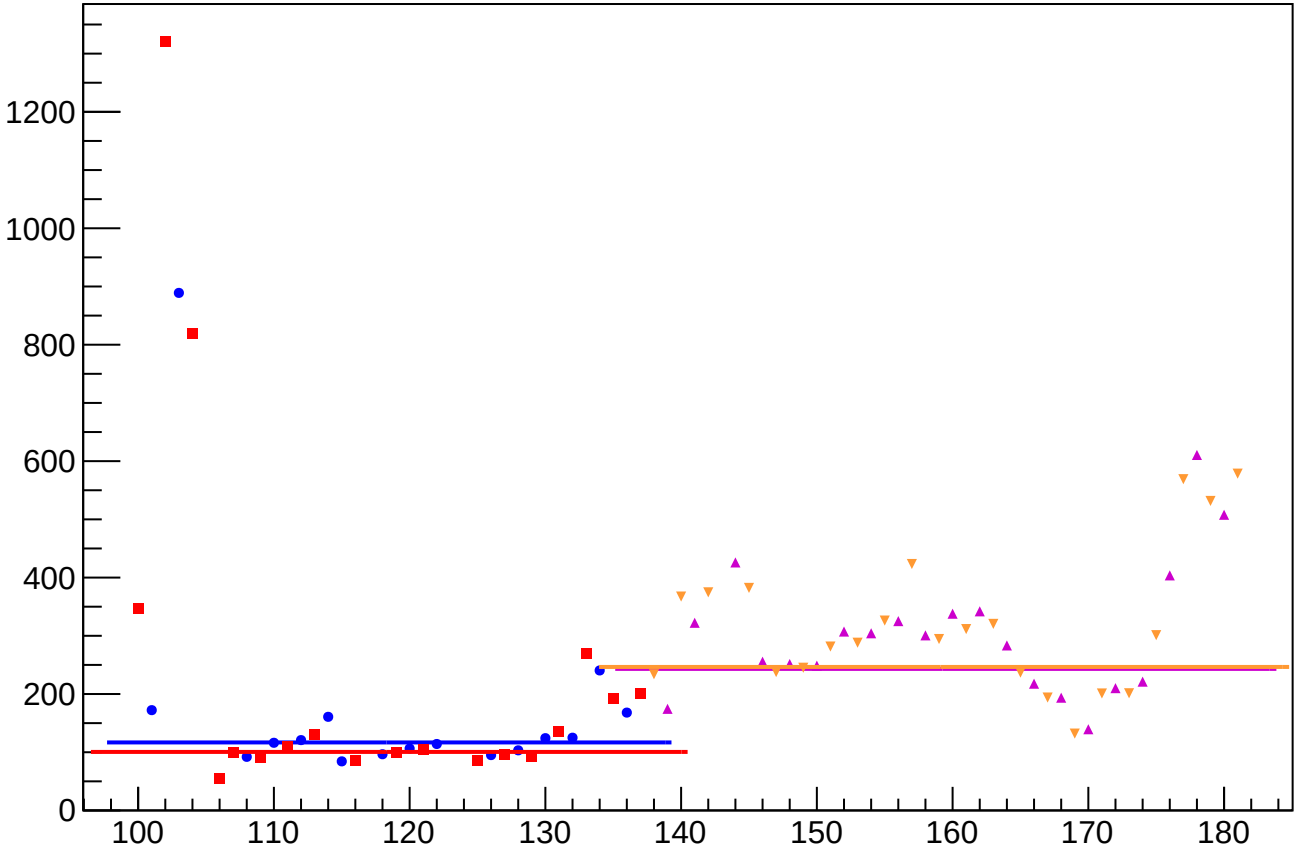
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.048+/-0.038 $\chi^2$/NDF:38.0/36

Out: 0.002+/-0.036 $\chi^2$/NDF:53.7/39

All: 0.024+/-0.026 $\chi^2$/NDF: 92.5/76

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620809.7/15

Left Out: 246.505+/-0.045 $\chi^2$/NDF:4116101.1/21

Right Out: 100.544+/-0.031 $\chi^2$/NDF: 2664151.6/17

Left In: 243.153+/-0.045 $\chi^2$/NDF:3551418.6/20

Left: 244.804+/-0.032 $\chi^2$/NDF: 7670307.7/42

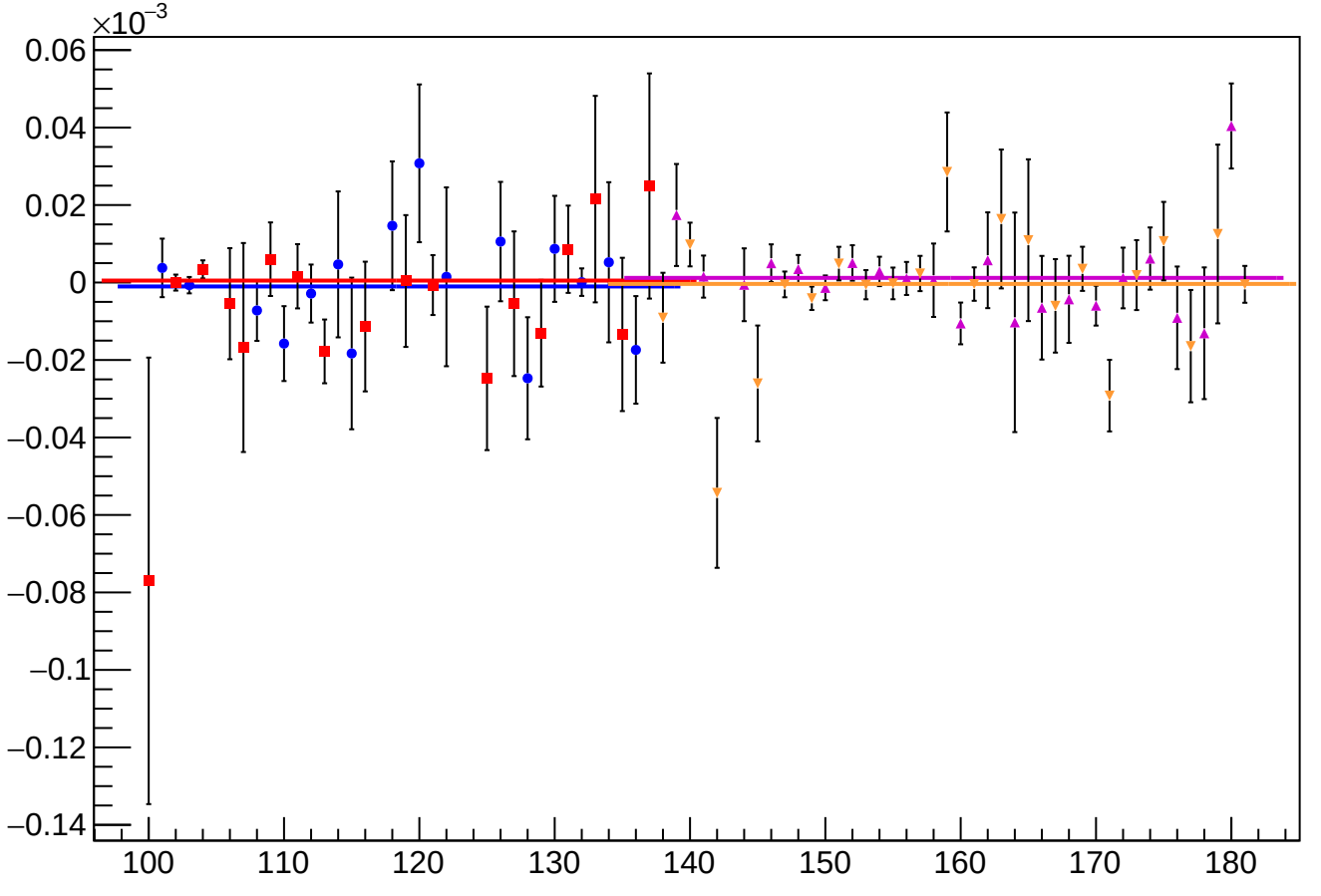
Right: 107.961+/-0.023 $\chi^2$/NDF: 4413433.8/33

In: 162.561+/-0.027 $\chi^2$/NDF:10298702.4/36

Out: 146.547+/-0.025 $\chi^2$/NDF:13916339.5/39

All: 154.117+/-0.018 $\chi^2$/NDF: 24403160.0/76

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:35.8/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.1/20

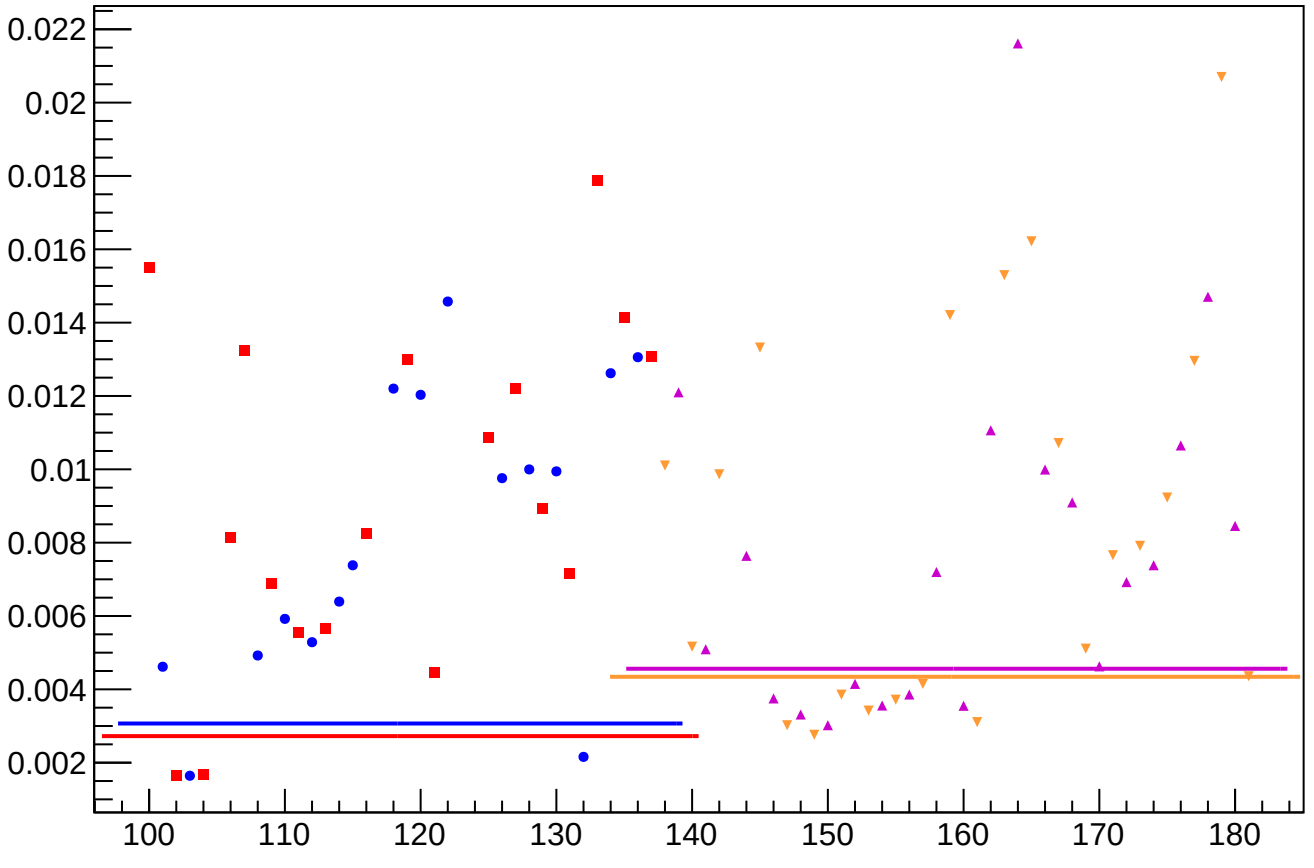
Left: 0.000+/-0.000 $\chi^2$/NDF: 62.7/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.1/33

In: 0.000+/-0.000 $\chi^2$/NDF:39.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:51.1/39

All: 0.000+/-0.000 $\chi^2$/NDF: 91.0/76




Right In: 0.003+/-0.000 $\chi^2$/NDF: 5964299.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:8205256.1/21

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6713699.1/17

Left In: 0.005+/-0.000 $\chi^2$/NDF:5830634.9/20

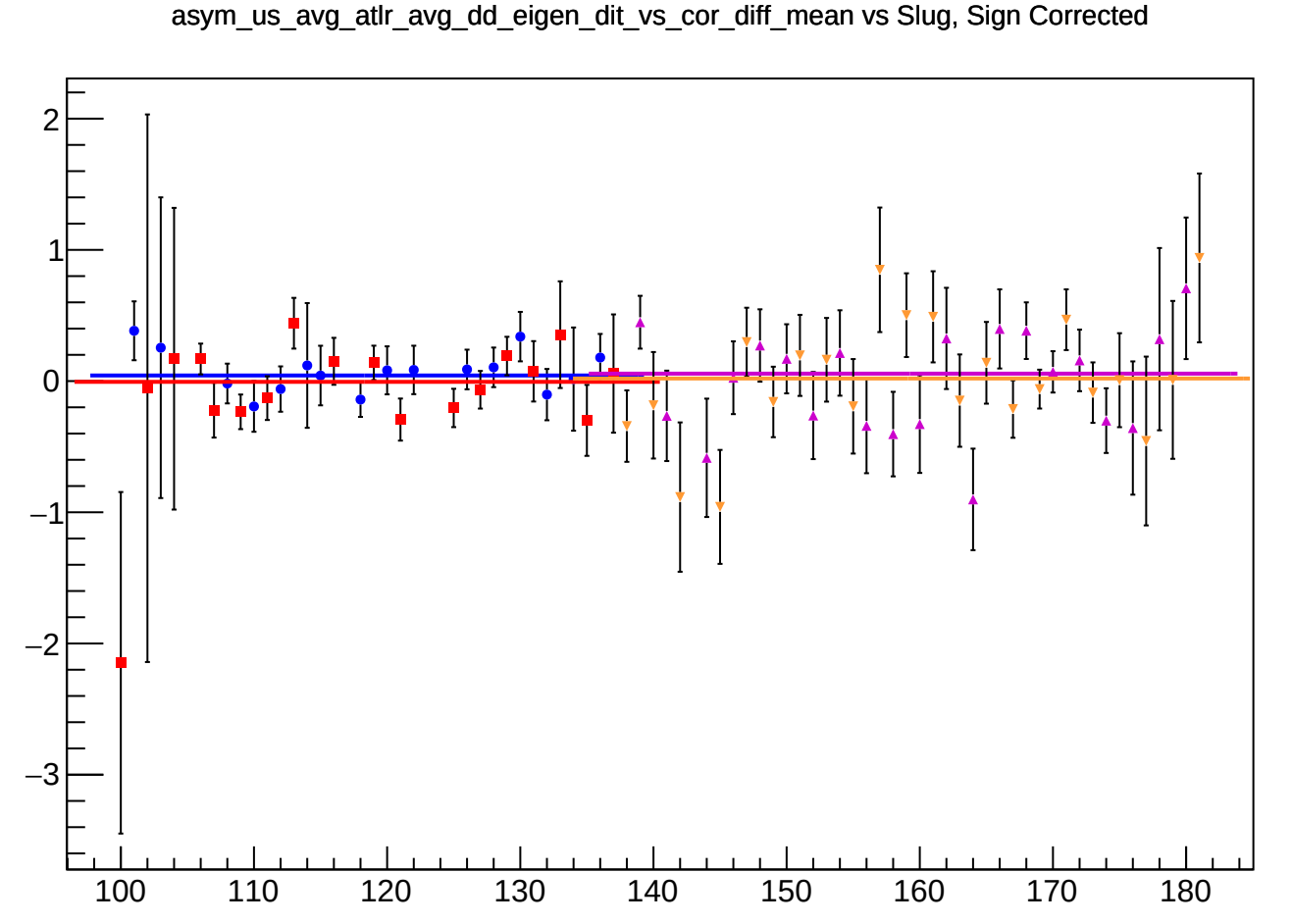
Left: 0.004+/-0.000 $\chi^2$/NDF: 14066151.6/42

Right: 0.003+/-0.000 $\chi^2$/NDF: 12731216.4/33

In: 0.004+/-0.000 $\chi^2$/NDF:12860624.0/36

Out: 0.004+/-0.000 $\chi^2$/NDF:16432837.8/39

All: 0.004+/-0.000 $\chi^2$/NDF: 29406385.2/76




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: 0.020+/-0.064 $\chi^2$/NDF:27.6/21

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.057+/-0.063 $\chi^2$/NDF:27.7/20

Left: 0.038+/-0.045 $\chi^2$/NDF: 55.5/42

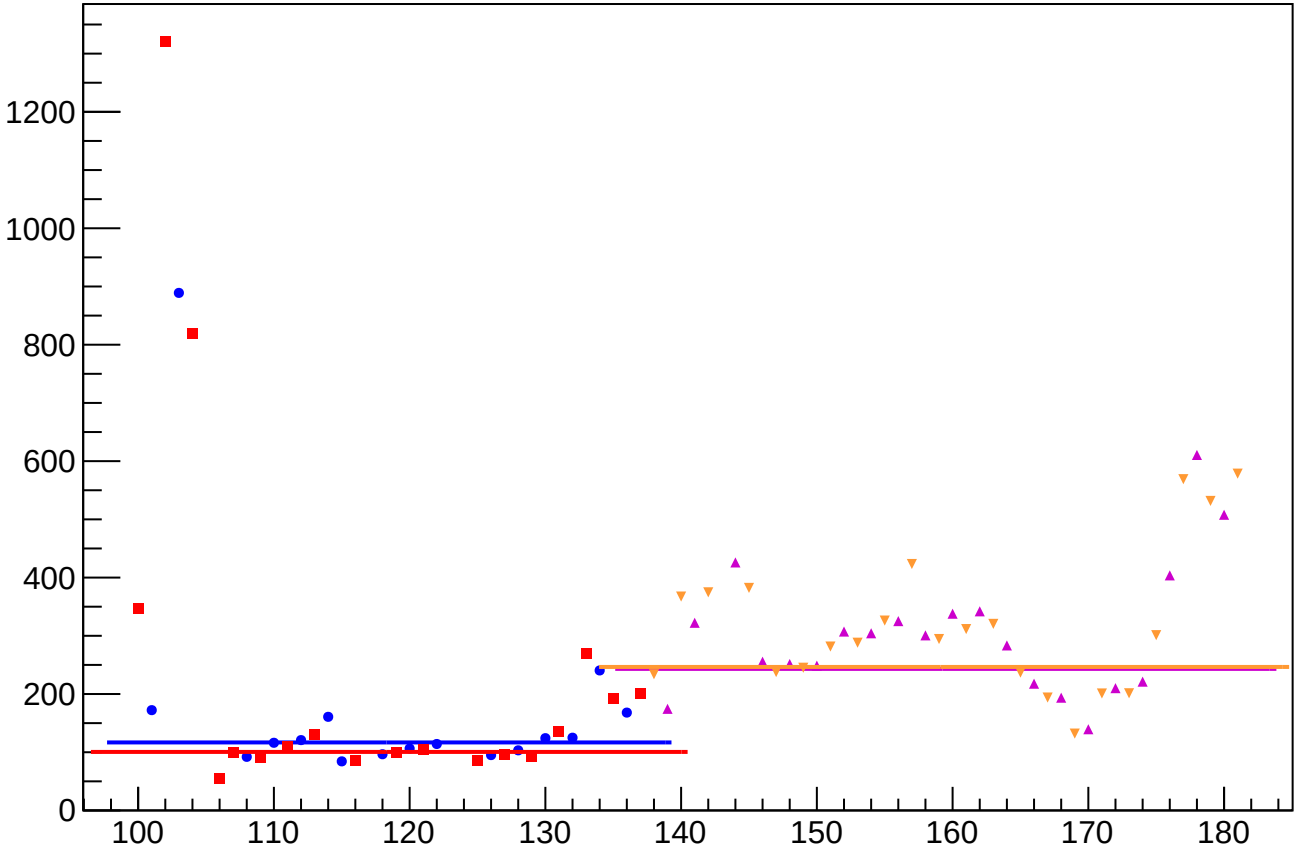
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.048+/-0.038 $\chi^2$/NDF:38.0/36

Out: 0.002+/-0.036 $\chi^2$/NDF:53.7/39

All: 0.024+/-0.026 $\chi^2$/NDF: 92.5/76

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620812.6/15

Left Out: 246.505+/-0.045 $\chi^2$/NDF:4116254.9/21

Right Out: 100.543+/-0.031 $\chi^2$/NDF: 2664231.9/17

Left In: 243.154+/-0.045 $\chi^2$/NDF:3551480.9/20

Left: 244.805+/-0.032 $\chi^2$/NDF: 7670521.5/42

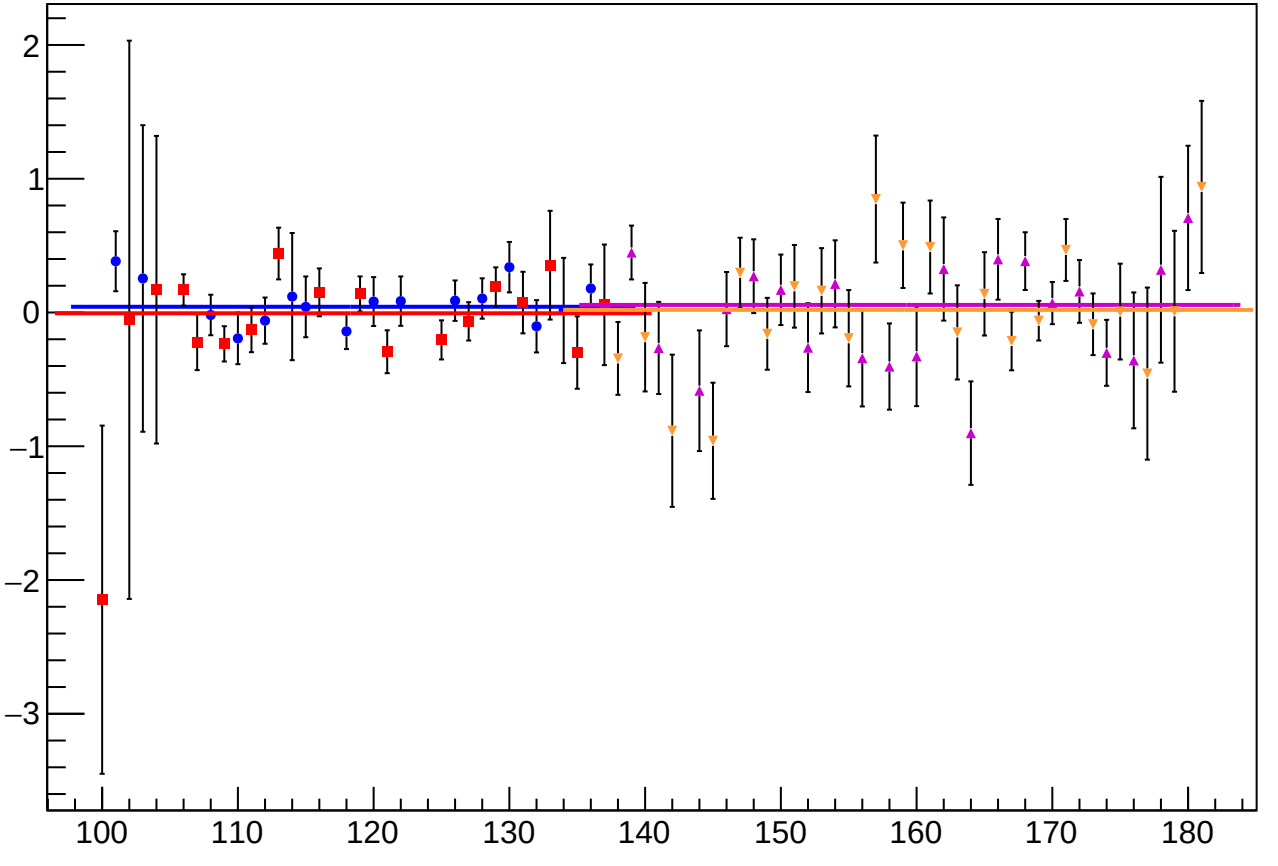
Right: 107.960+/-0.023 $\chi^2$/NDF: 4413531.7/33

In: 162.561+/-0.027 $\chi^2$/NDF:10298850.4/36

Out: 146.546+/-0.025 $\chi^2$/NDF:13916680.2/39

All: 154.117+/-0.018 $\chi^2$/NDF: 24403676.7/76

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: 0.020+/-0.064 $\chi^2$/NDF:27.6/21

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.057+/-0.063 $\chi^2$/NDF:27.7/20

Left: 0.038+/-0.045 $\chi^2$/NDF: 55.5/42

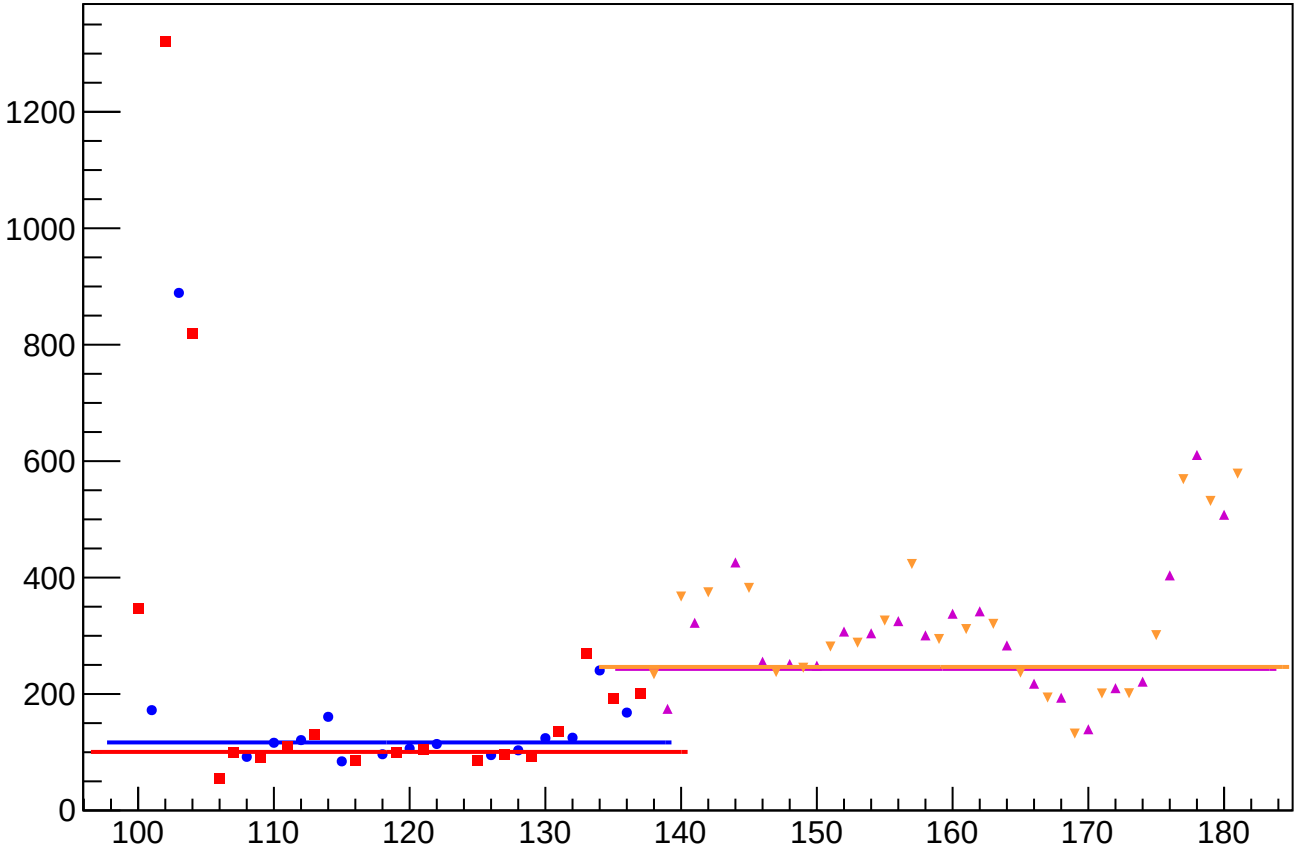
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.048+/-0.038 $\chi^2$/NDF:38.0/36

Out: 0.002+/-0.036 $\chi^2$/NDF:53.7/39

All: 0.024+/-0.026 $\chi^2$/NDF: 92.5/76

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620812.6/15

Left Out: 246.505+/-0.045 $\chi^2$/NDF:4116254.9/21

Right Out: 100.543+/-0.031 $\chi^2$/NDF: 2664231.9/17

Left In: 243.154+/-0.045 $\chi^2$/NDF:3551480.9/20

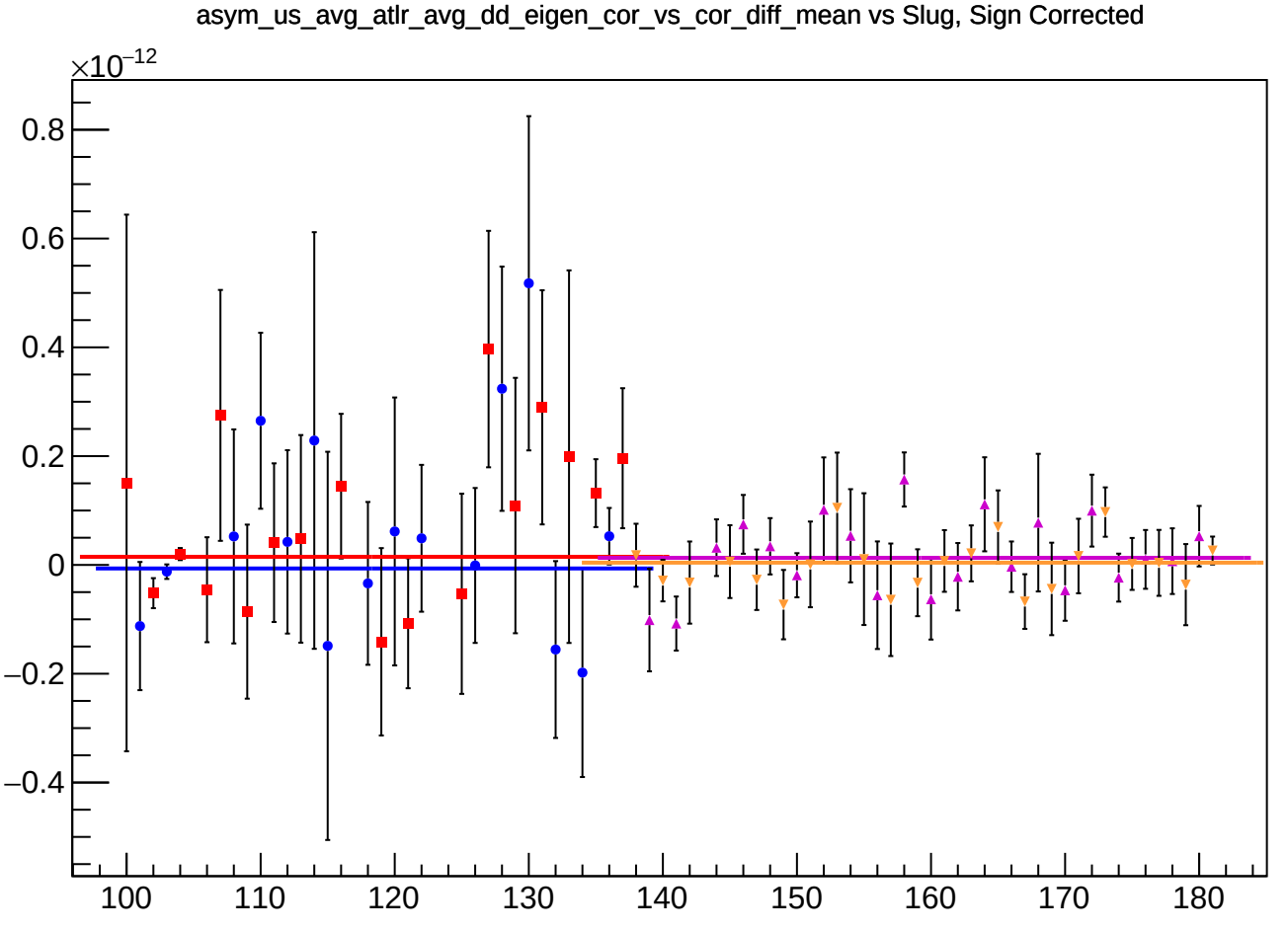
Left: 244.805+/-0.032 $\chi^2$/NDF: 7670521.5/42

Right: 107.960+/-0.023 $\chi^2$/NDF: 4413531.7/33

In: 162.561+/-0.027 $\chi^2$/NDF:10298850.4/36

Out: 146.546+/-0.025 $\chi^2$/NDF:13916680.2/39

All: 154.117+/-0.018 $\chi^2$/NDF: 24403676.7/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 40.2/42

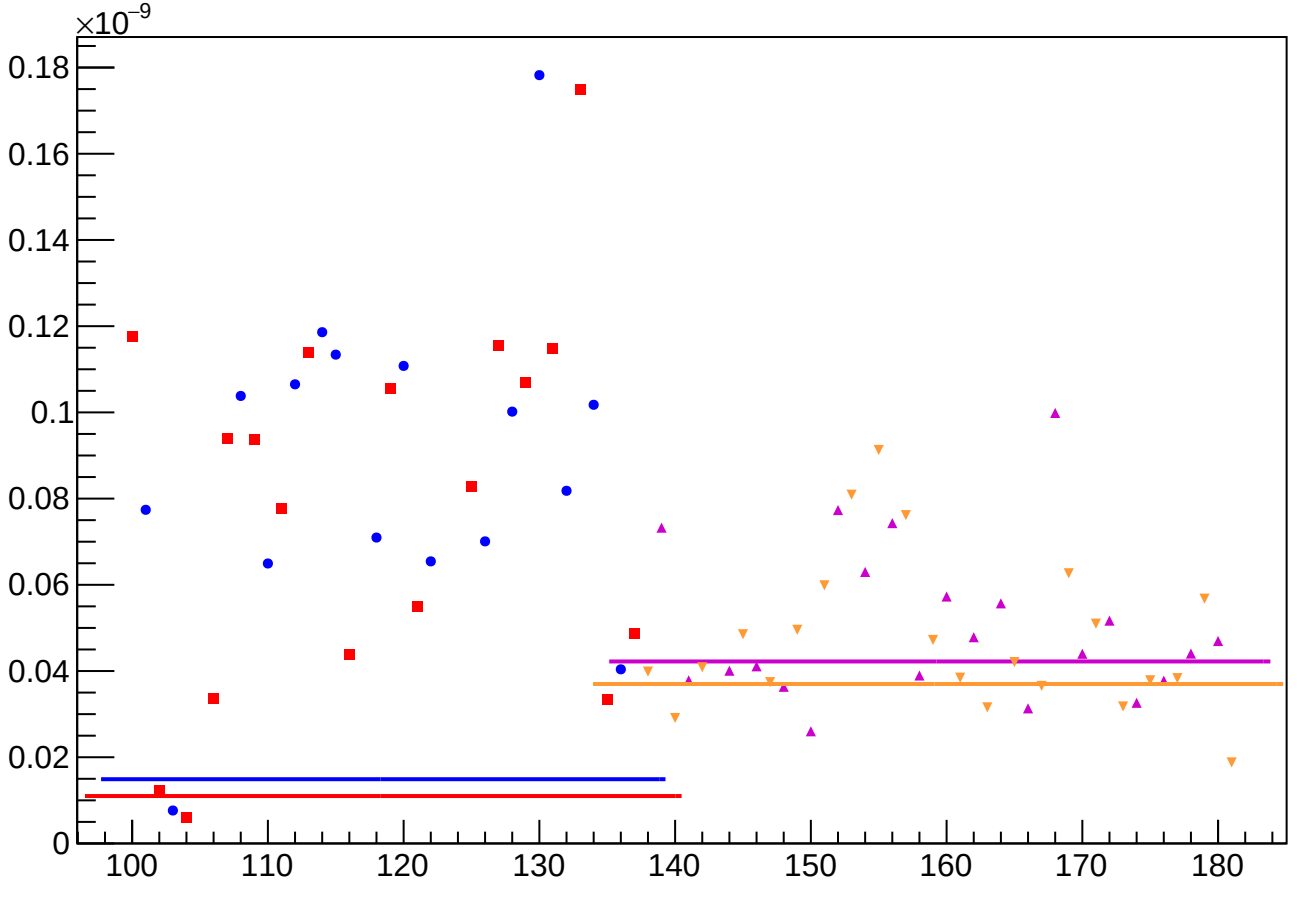
Right: 0.000+/-0.000 $\chi^2$/NDF: 36.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:40.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:35.7/39

All: 0.000+/-0.000 $\chi^2$/NDF: 77.0/76

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5893030.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2996262.6/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5866969.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2025478.3/20

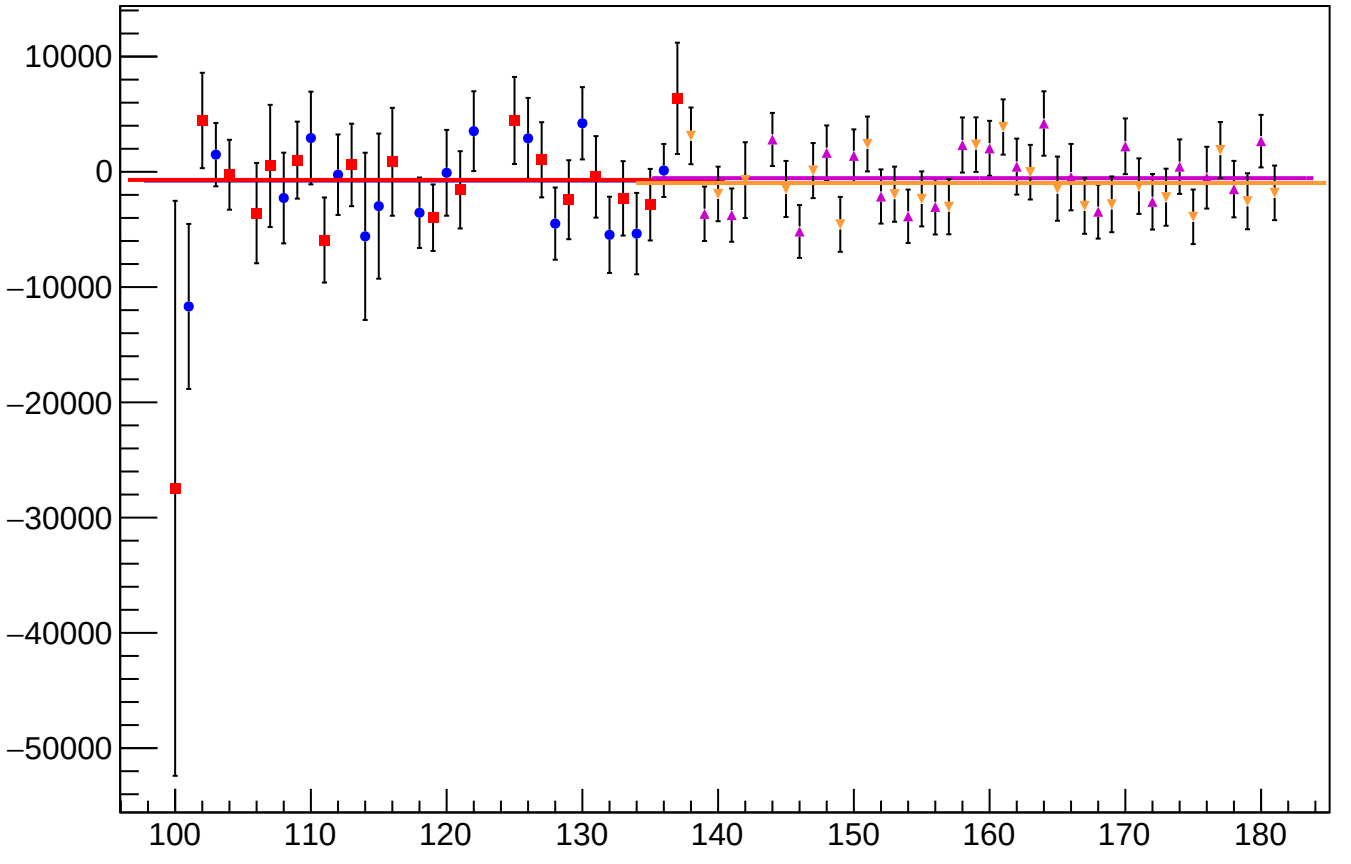
Left: 0.000+/-0.000 $\chi^2$/NDF: 5201615.1/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 11880361.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:12575276.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:14569677.5/39

All: 0.000+/-0.000 $\chi^2$/NDF: 27748843.6/76




Right In: -754.291+/-872.652 $\chi^2$/NDF: 15.9/15

Left Out: -968.624+/-520.623 $\chi^2$/NDF:20.0/21

Right Out: -702.198+/-868.647 $\chi^2$/NDF: 12.4/17

Left In: -549.265+/-525.209 $\chi^2$/NDF:26.5/20

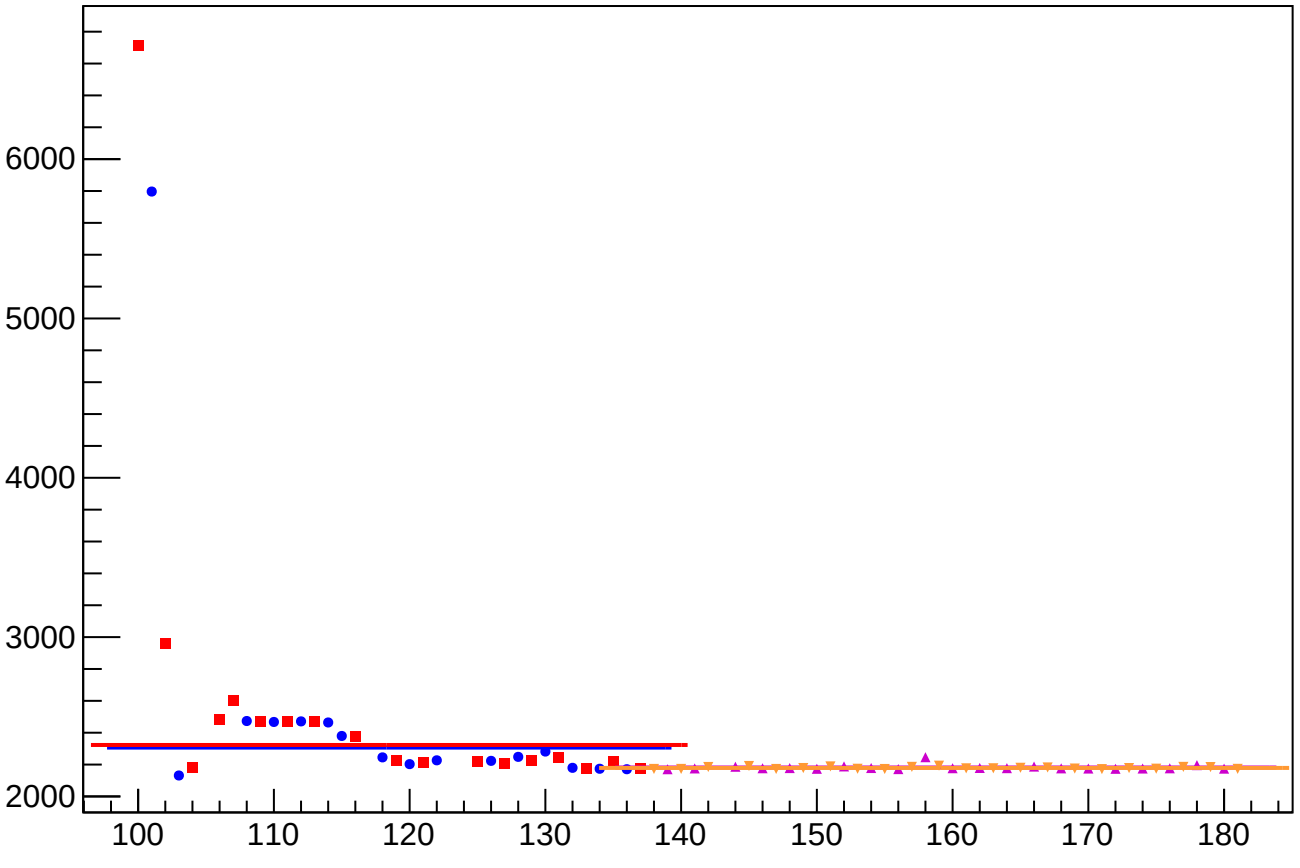
Left: -760.783+/-369.747 $\chi^2$/NDF: 46.8/42

Right: -728.125+/-615.637 $\chi^2$/NDF: 28.2/33

In: -603.783+/-449.994 $\chi^2$/NDF:42.5/36

Out: -898.212+/-446.559 $\chi^2$/NDF:32.4/39

All: -752.125+/-316.972 $\chi^2$/NDF: 75.1/76




Right In: 2306.643+/-0.617 $\chi^2$/NDF: 514150.3/15

Left Out: 2178.983+/-0.368 $\chi^2$/NDF:318.6/21

Right Out: 2323.010+/-0.614 $\chi^2$/NDF: 151787.1/17

Left In: 2181.662+/-0.371 $\chi^2$/NDF:1799.5/20

Left: 2180.311+/-0.261 $\chi^2$/NDF: 2144.3/42

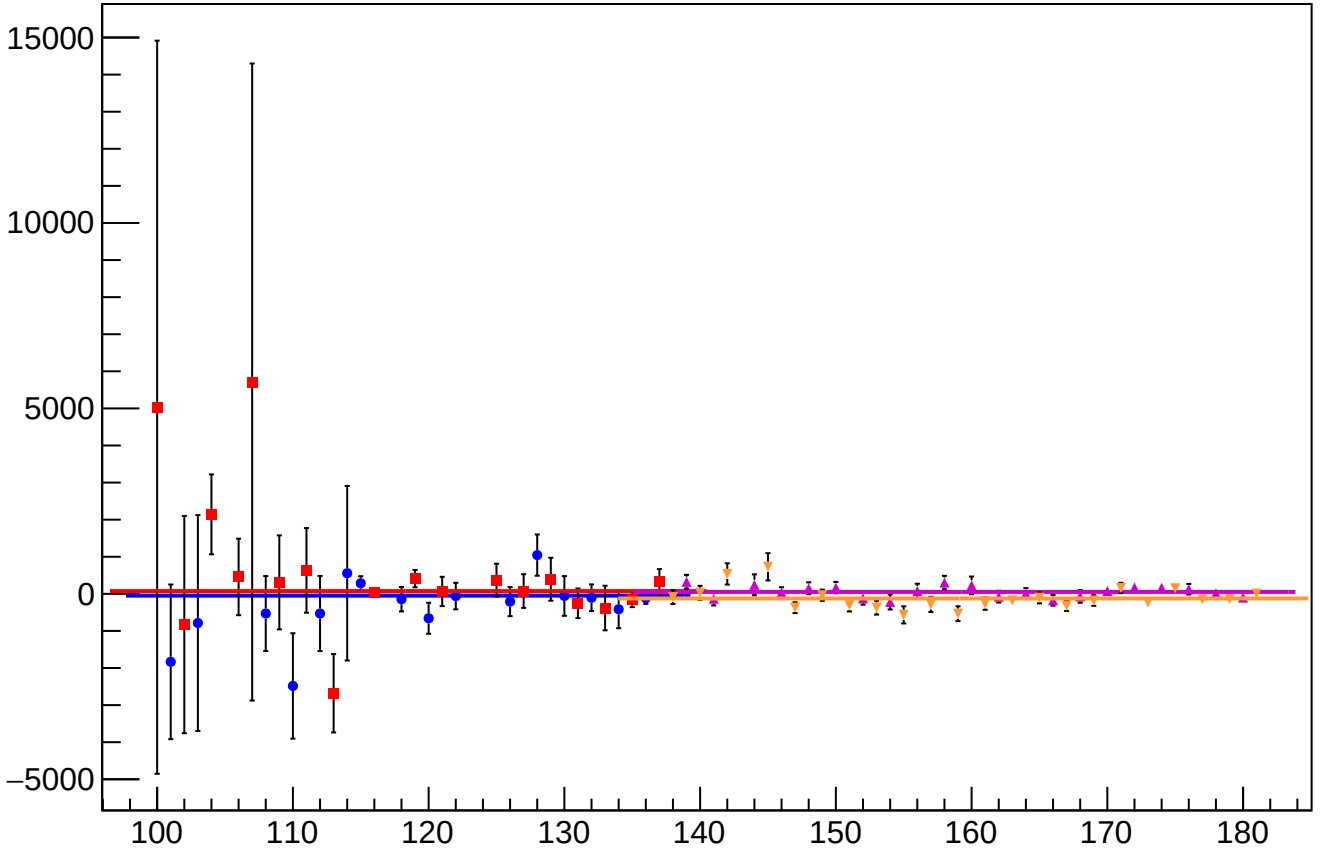
Right: 2314.864+/-0.435 $\chi^2$/NDF: 666290.7/33

In: 2214.895+/-0.318 $\chi^2$/NDF:546065.3/36

Out: 2217.047+/-0.316 $\chi^2$/NDF:192558.2/39

All: 2215.980+/-0.224 $\chi^2$/NDF: 738646.5/76

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -47.927+/-90.914 $\chi^2$/NDF: 14.4/15

Left Out: -124.188+/-31.472 $\chi^2$/NDF:42.2/21

Right Out: 74.200+/-82.384 $\chi^2$/NDF: 17.6/17

Left In: 51.530+/-32.709 $\chi^2$/NDF:17.9/20

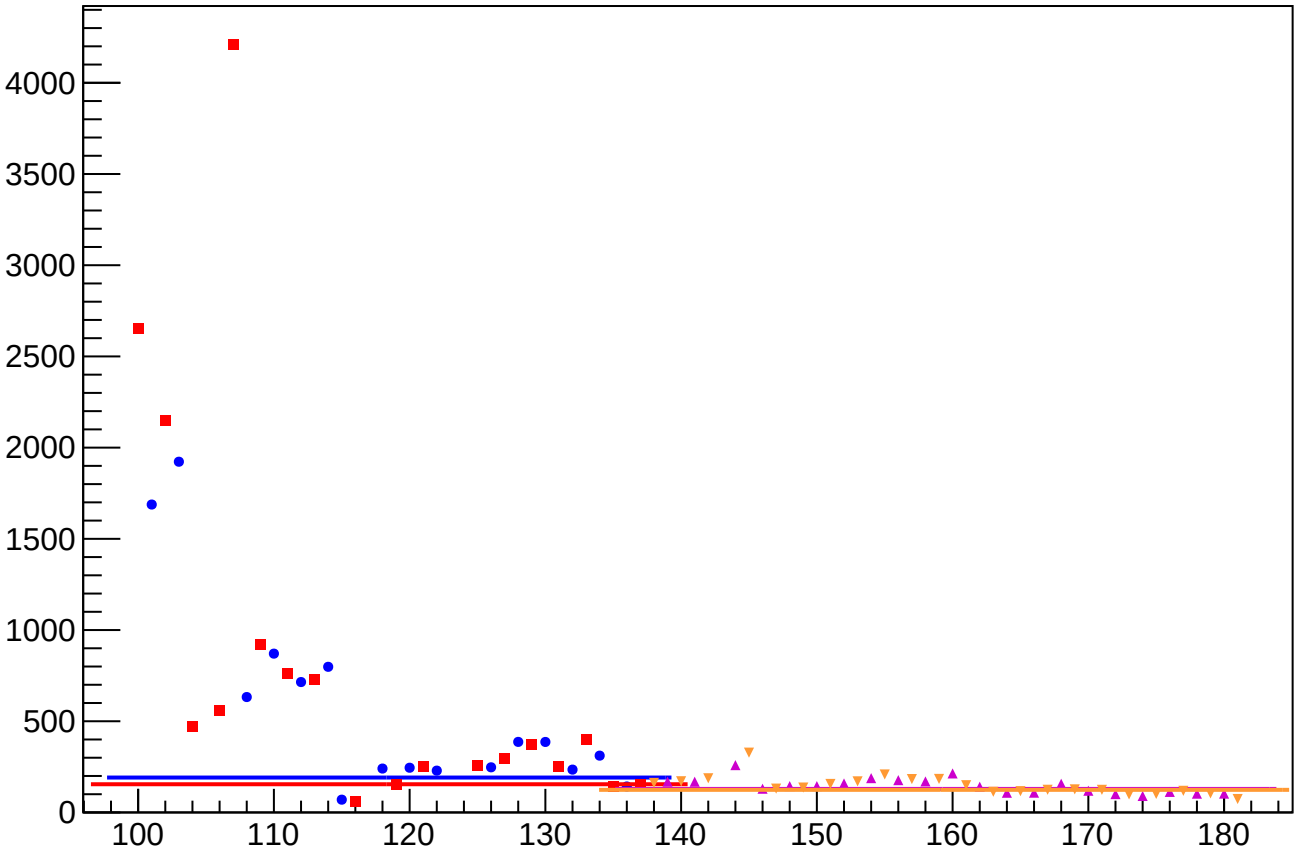
Left: -39.716+/-22.679 $\chi^2$/NDF: 75.2/42

Right: 19.134+/-61.048 $\chi^2$/NDF: 33.0/33

In: 40.132+/-30.778 $\chi^2$/NDF:33.4/36

Out: -98.923+/-29.400 $\chi^2$/NDF:64.9/39

All: -32.579+/-21.259 $\chi^2$/NDF: 109.0/76




Right In: 191.381+/-0.064 $\chi^2$/NDF: 5064747.7/15

Left Out: 123.967+/-0.022 $\chi^2$/NDF:2761034.0/21

Right Out: 154.677+/-0.058 $\chi^2$/NDF: 6154285.9/17

Left In: 128.979+/-0.023 $\chi^2$/NDF:2152871.7/20

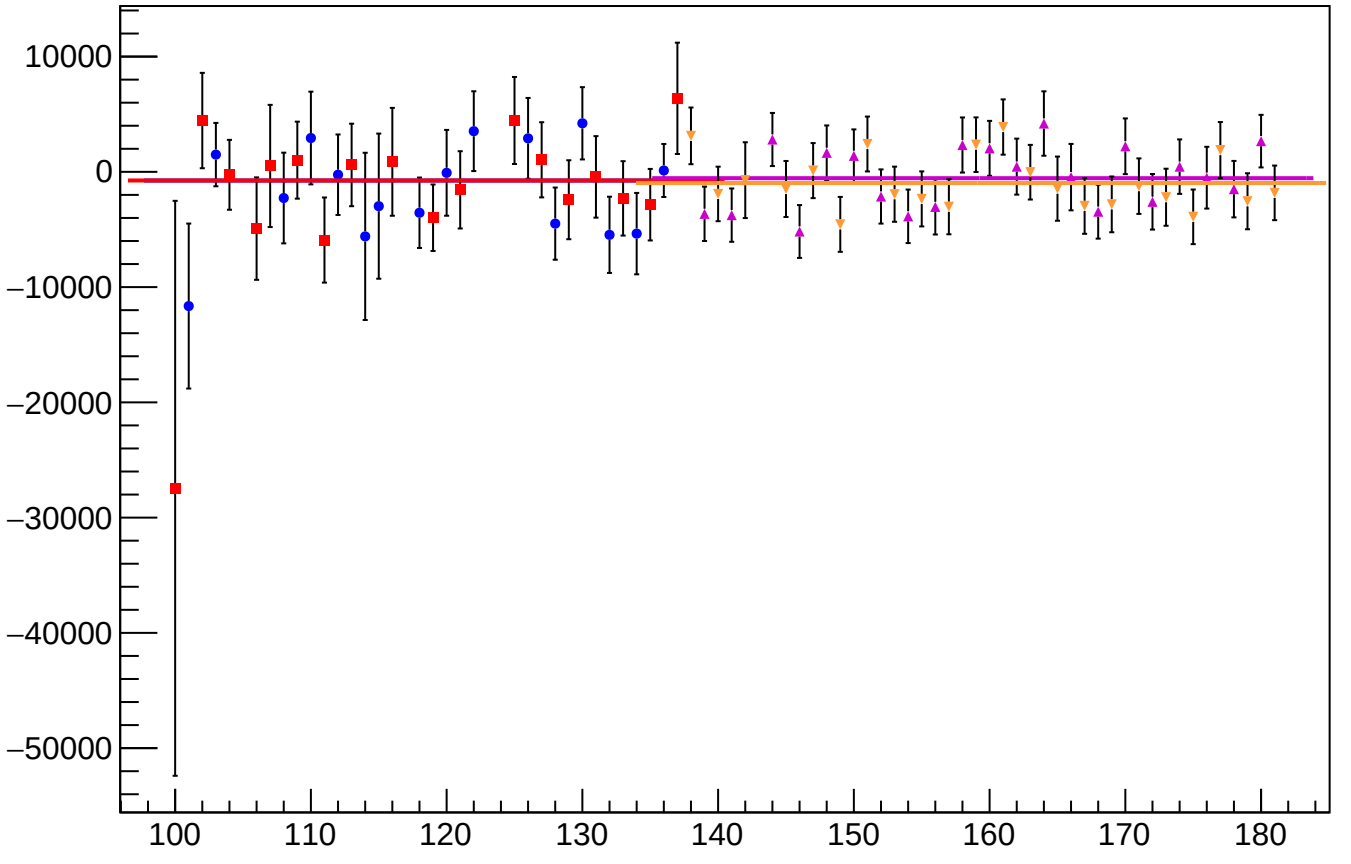
Left: 126.377+/-0.016 $\chi^2$/NDF: 4938292.3/42

Right: 171.226+/-0.043 $\chi^2$/NDF: 11398031.5/33

In: 136.131+/-0.022 $\chi^2$/NDF:8051855.3/36

Out: 127.878+/-0.021 $\chi^2$/NDF:9157832.8/39

All: 131.816+/-0.015 $\chi^2$/NDF: 17284883.5/76




Right In: -753.322+/-872.653 $\chi^2$/NDF: 15.9/15

Left Out: -968.578+/-520.623 $\chi^2$/NDF:20.0/21

Right Out: -749.316+/-869.366 $\chi^2$/NDF: 12.8/17

Left In: -549.256+/-525.209 $\chi^2$/NDF:26.6/20

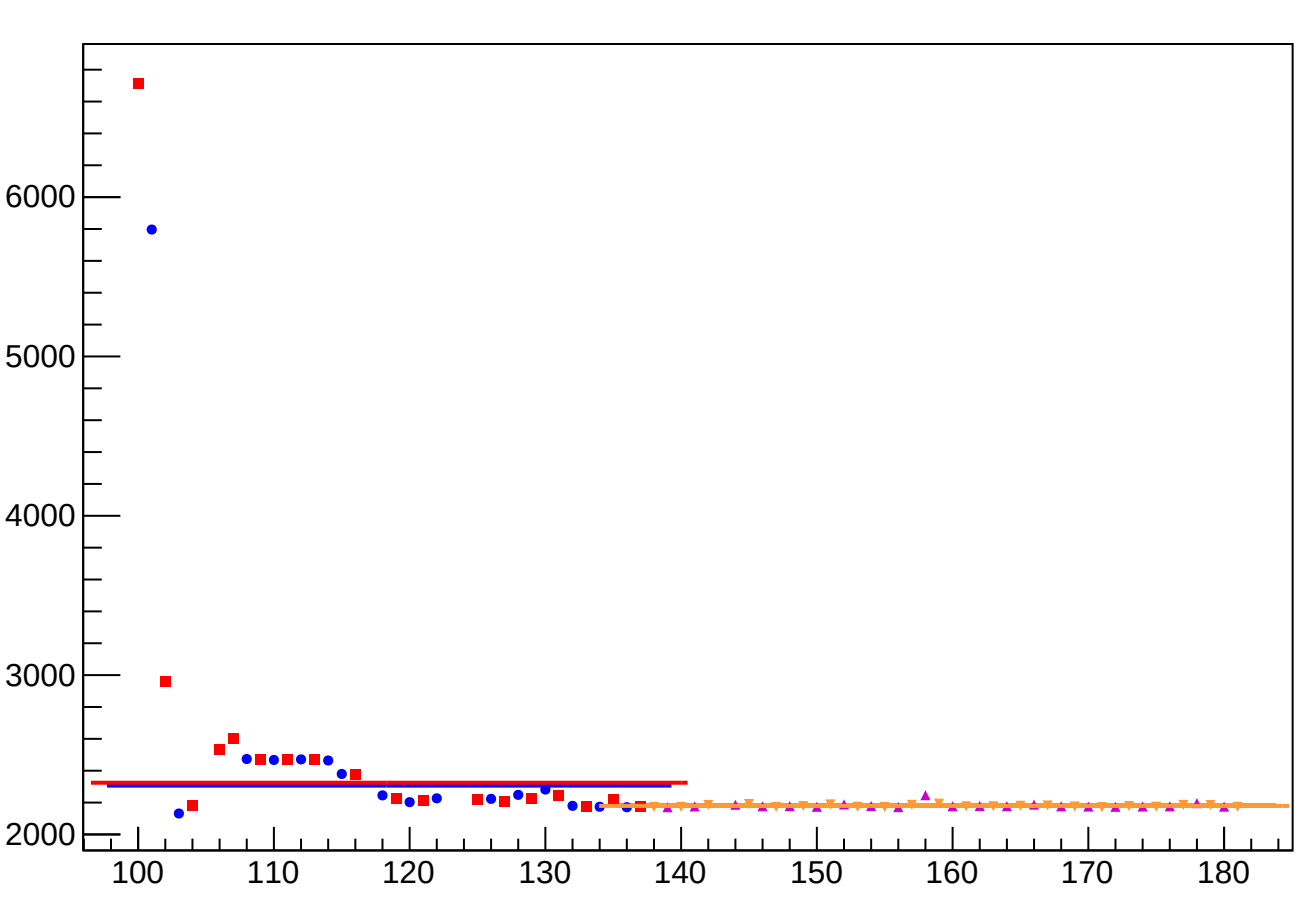
Left: -760.755+/-369.747 $\chi^2$/NDF: 46.8/42

Right: -751.312+/-615.893 $\chi^2$/NDF: 28.7/33

In: -603.519+/-449.994 $\chi^2$/NDF:42.5/36

Out: -910.701+/-446.656 $\chi^2$/NDF:32.8/39

All: -758.253+/-317.007 $\chi^2$/NDF: 75.5/76




Right In: 2306.643+/-0.617 $\chi^2$/NDF: 514150.6/15

Left Out: 2178.983+/-0.368 $\chi^2$/NDF:318.6/21

Right Out: 2324.685+/-0.615 $\chi^2$/NDF: 153578.5/17

Left In: 2181.662+/-0.371 $\chi^2$/NDF:1799.5/20

Left: 2180.311+/-0.261 $\chi^2$/NDF: 2144.3/42

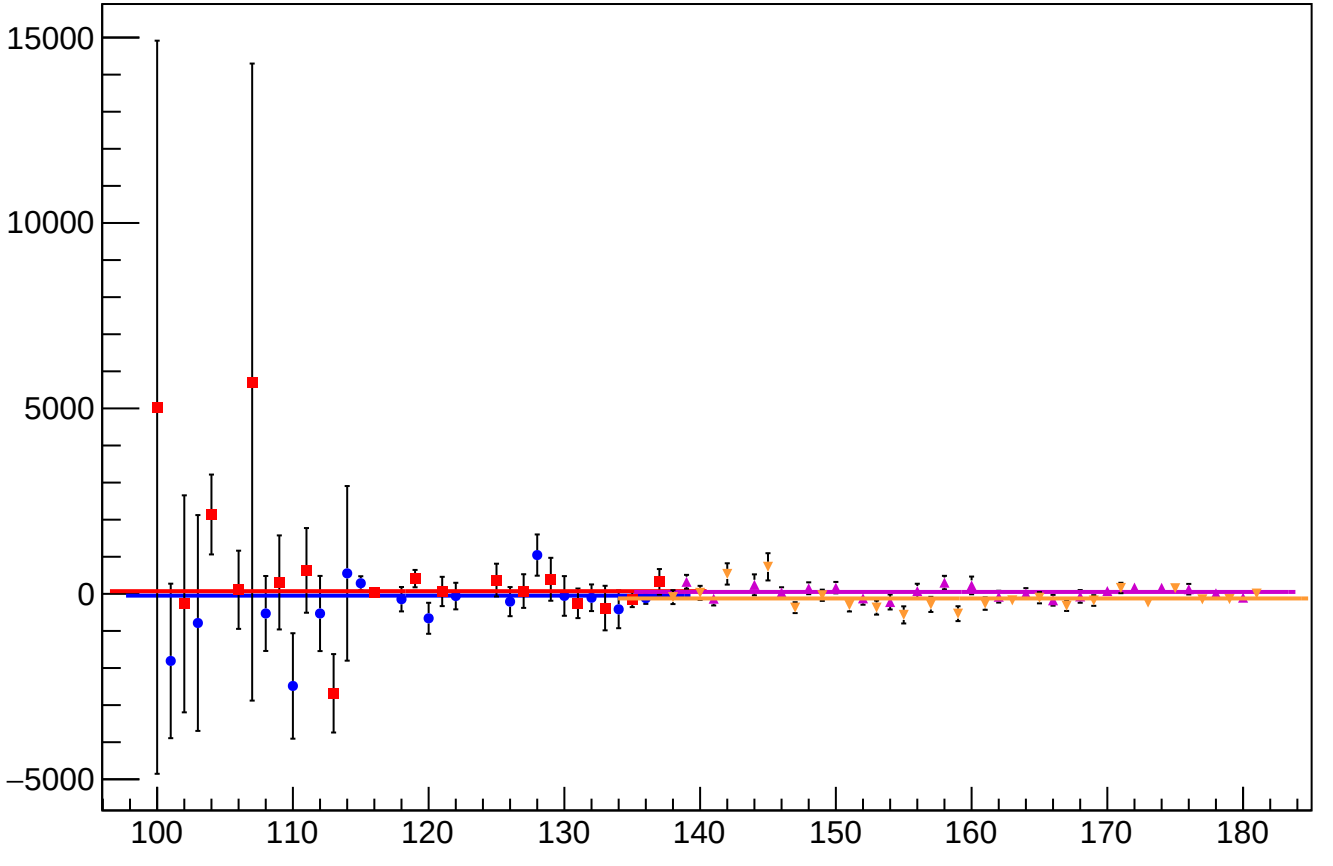
Right: 2315.698+/-0.436 $\chi^2$/NDF: 668158.1/33

In: 2214.895+/-0.318 $\chi^2$/NDF:546065.6/36

Out: 2217.443+/-0.316 $\chi^2$/NDF:195245.2/39

All: 2216.179+/-0.224 $\chi^2$/NDF: 741343.1/76

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -47.960+/-90.920 $\chi^2$/NDF: 14.4/15

Left Out: -124.110+/-31.472 $\chi^2$/NDF:42.2/21

Right Out: 72.198+/-82.322 $\chi^2$/NDF: 17.4/17

Left In: 51.430+/-32.712 $\chi^2$/NDF:18.0/20

Left: -39.732+/-22.680 $\chi^2$/NDF: 75.1/42

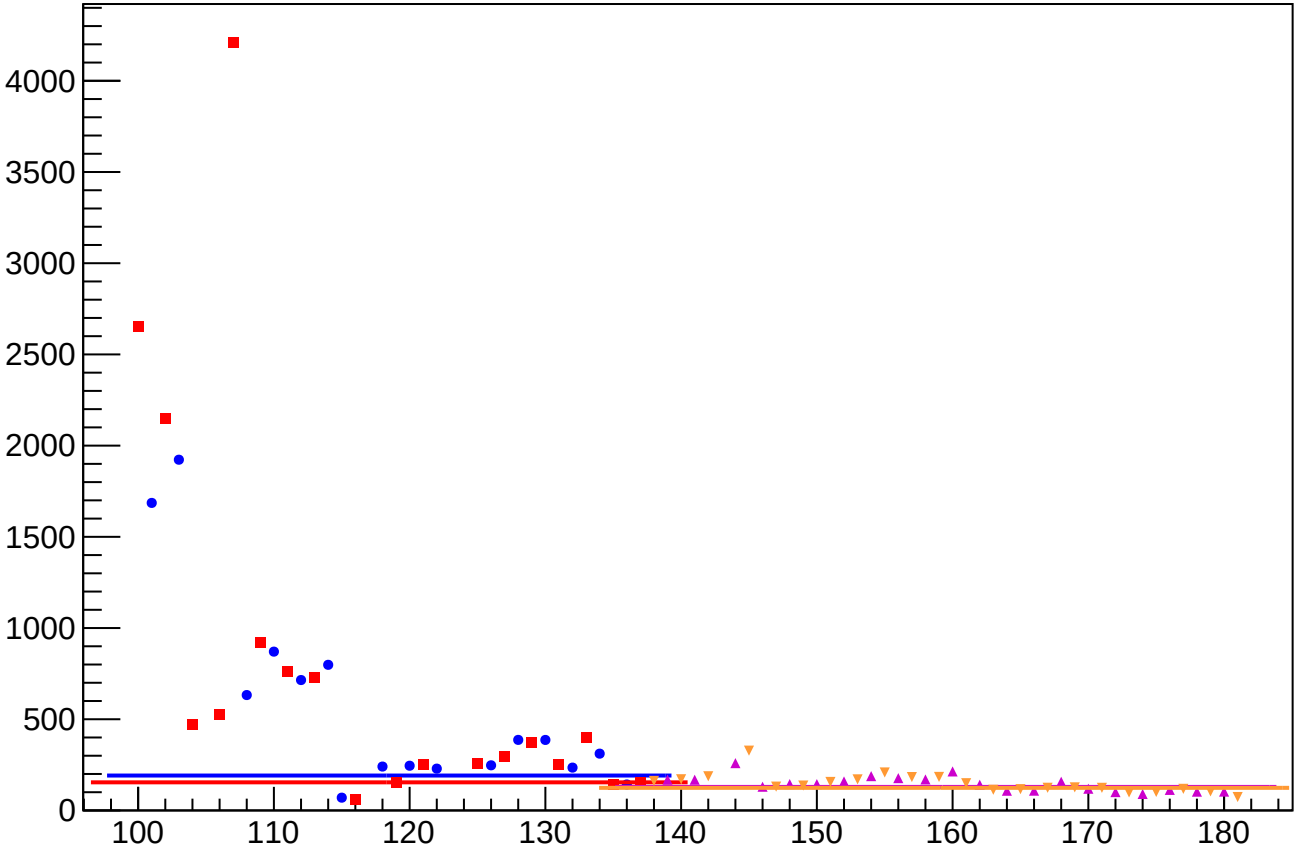
Right: 18.067+/-61.024 $\chi^2$/NDF: 32.7/33

In: 40.039+/-30.781 $\chi^2$/NDF:33.4/36

Out: -99.078+/-29.397 $\chi^2$/NDF:64.6/39

All: -32.717+/-21.259 $\chi^2$/NDF: 108.6/76

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 191.405+/-0.064 $\chi^2$/NDF: 5063603.7/15

Left Out: 123.963+/-0.022 $\chi^2$/NDF:2761734.4/21

Right Out: 154.121+/-0.058 $\chi^2$/NDF: 6108665.0/17

Left In: 128.994+/-0.023 $\chi^2$/NDF:2152670.4/20

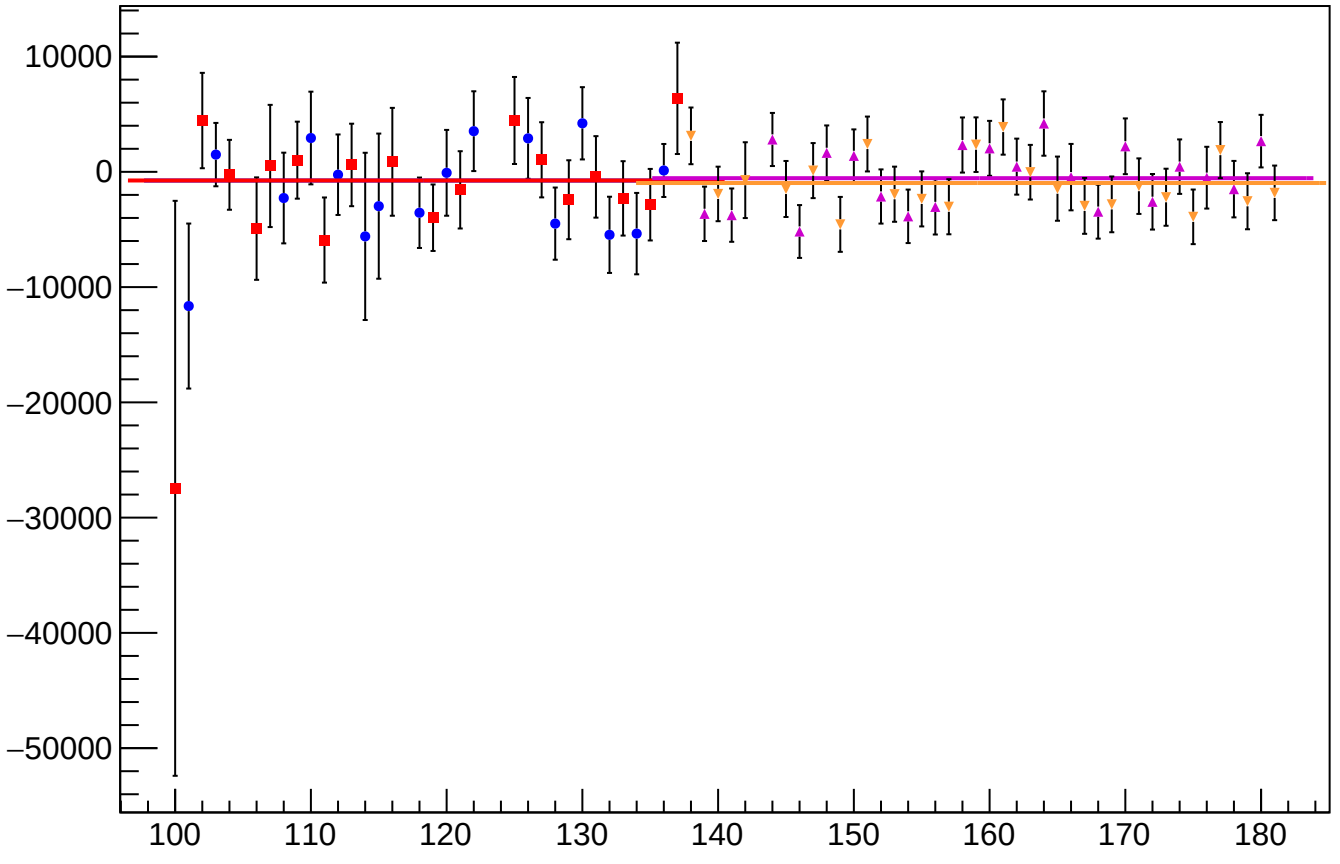
Left: 126.381+/-0.016 $\chi^2$/NDF: 4938968.0/42

Right: 170.917+/-0.043 $\chi^2$/NDF: 11357079.8/33

In: 136.147+/-0.022 $\chi^2$/NDF:8050658.0/36

Out: 127.809+/-0.021 $\chi^2$/NDF:9104580.4/39

All: 131.786+/-0.015 $\chi^2$/NDF: 17231994.5/76




Right In: -753.322+/-872.653 $\chi^2$/NDF: 15.9/15

Left Out: -968.578+/-520.623 $\chi^2$/NDF:20.0/21

Right Out: -749.316+/-869.366 $\chi^2$/NDF: 12.8/17

Left In: -549.256+/-525.209 $\chi^2$/NDF:26.6/20

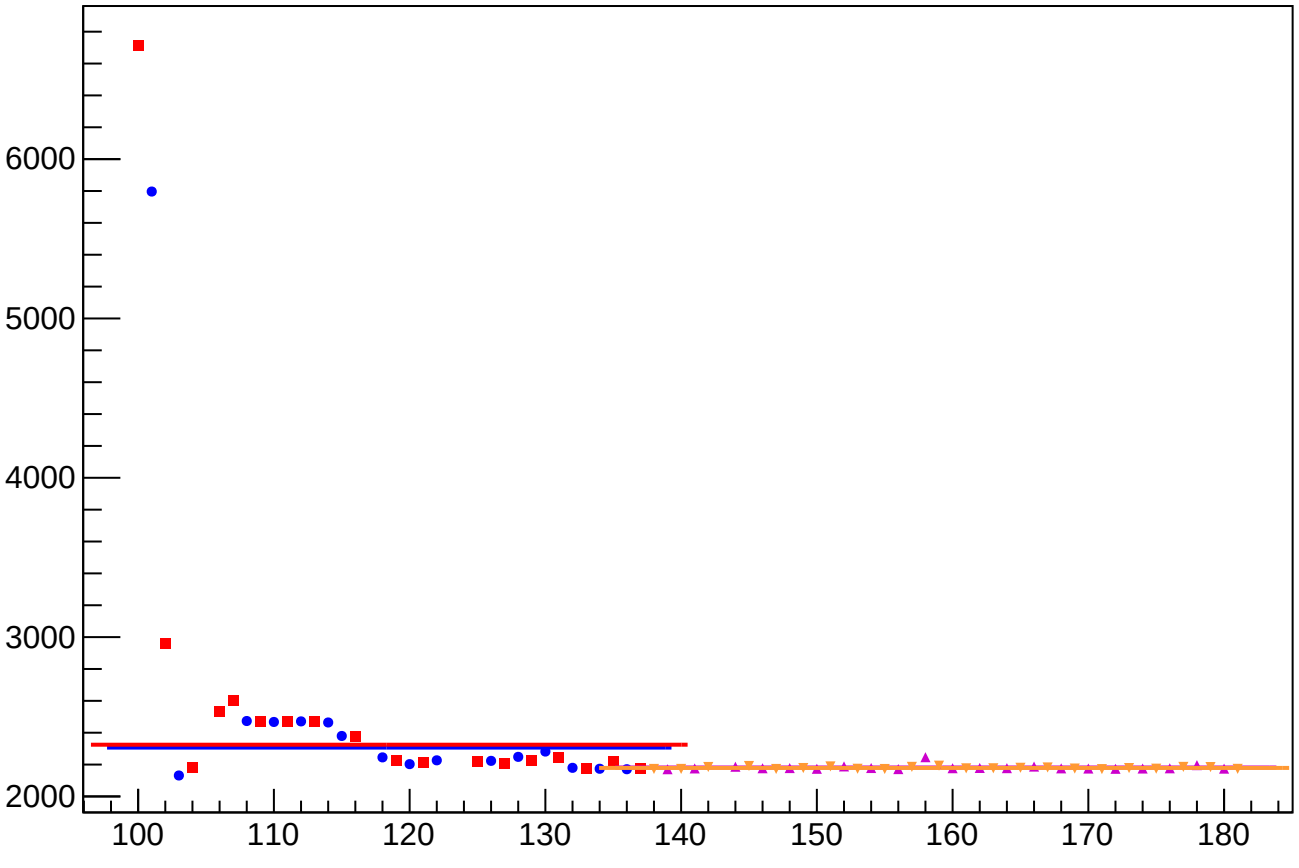
Left: -760.755+/-369.747 $\chi^2$/NDF: 46.8/42

Right: -751.312+/-615.893 $\chi^2$/NDF: 28.7/33

In: -603.519+/-449.994 $\chi^2$/NDF:42.5/36

Out: -910.701+/-446.656 $\chi^2$/NDF:32.8/39

All: -758.253+/-317.007 $\chi^2$/NDF: 75.5/76




Right In: 2306.643+/-0.617 $\chi^2$/NDF: 514150.6/15

Left Out: 2178.983+/-0.368 $\chi^2$/NDF:318.6/21

Right Out: 2324.685+/-0.615 $\chi^2$/NDF: 153578.5/17

Left In: 2181.662+/-0.371 $\chi^2$/NDF:1799.5/20

Left: 2180.311+/-0.261 $\chi^2$/NDF: 2144.3/42

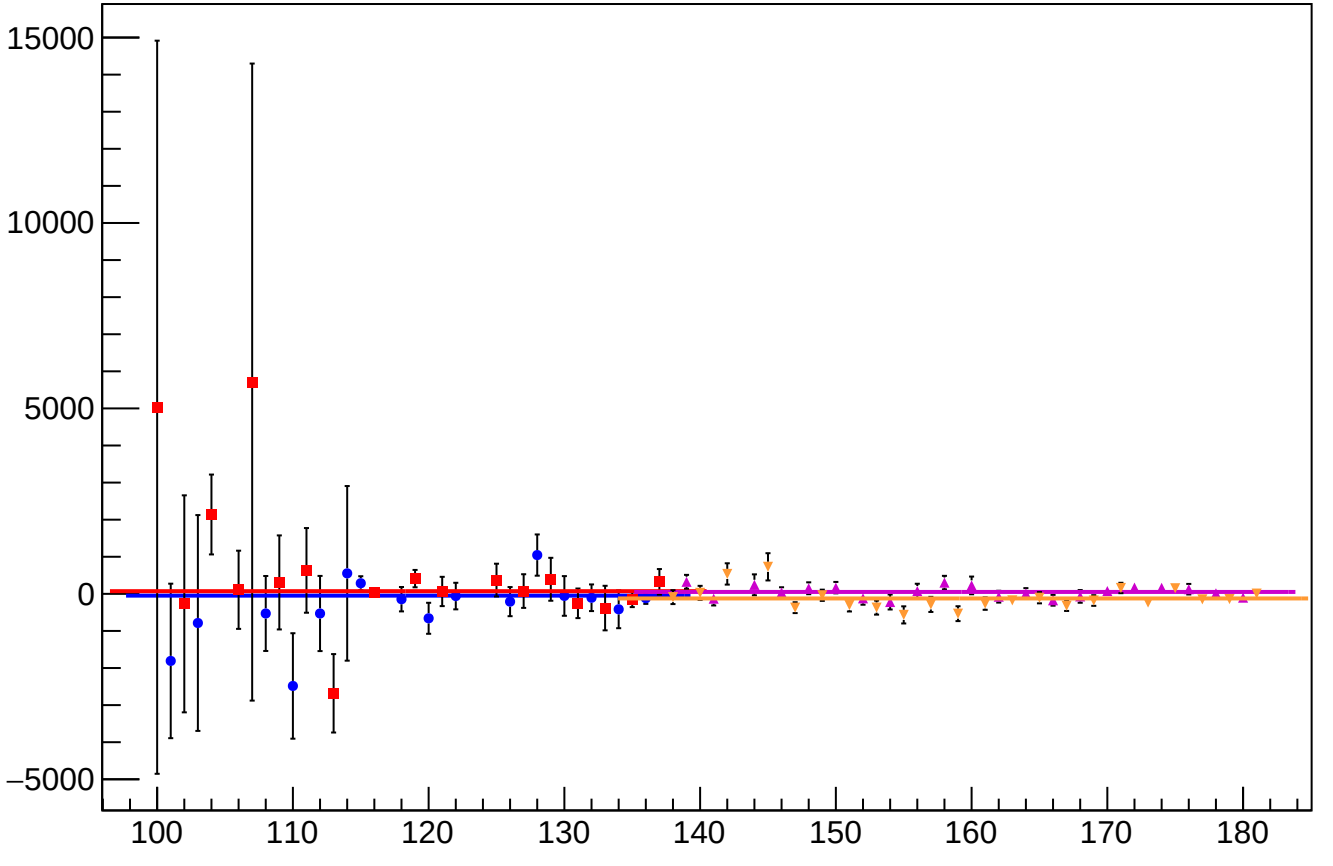
Right: 2315.698+/-0.436 $\chi^2$/NDF: 668158.1/33

In: 2214.895+/-0.318 $\chi^2$/NDF:546065.6/36

Out: 2217.443+/-0.316 $\chi^2$/NDF:195245.2/39

All: 2216.179+/-0.224 $\chi^2$/NDF: 741343.1/76

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -47.960+/-90.920 $\chi^2$/NDF: 14.4/15

Left Out: -124.110+/-31.472 $\chi^2$/NDF:42.2/21

Right Out: 72.198+/-82.322 $\chi^2$/NDF: 17.4/17

Left In: 51.430+/-32.712 $\chi^2$/NDF:18.0/20

Left: -39.732+/-22.680 $\chi^2$/NDF: 75.1/42

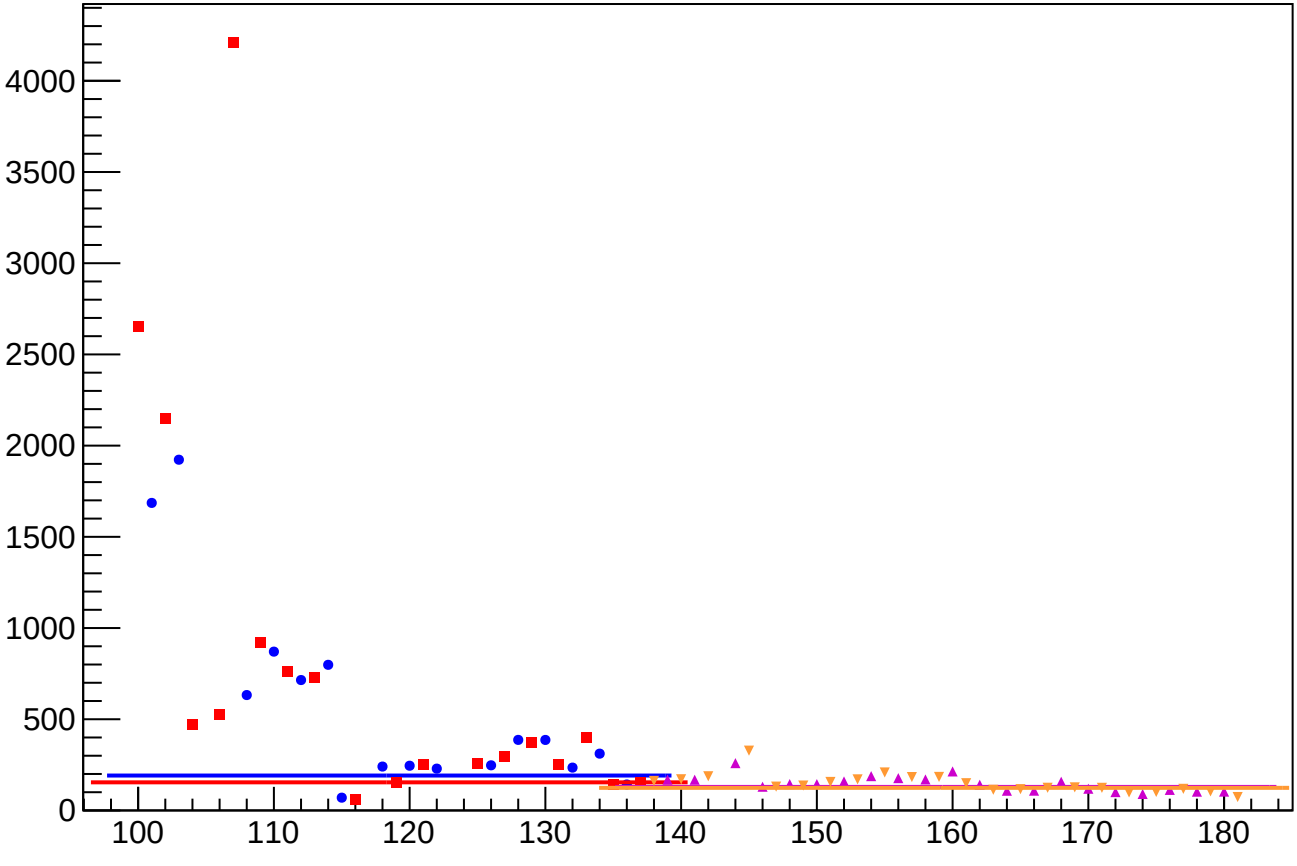
Right: 18.067+/-61.024 $\chi^2$/NDF: 32.7/33

In: 40.039+/-30.781 $\chi^2$/NDF:33.4/36

Out: -99.078+/-29.397 $\chi^2$/NDF:64.6/39

All: -32.717+/-21.259 $\chi^2$/NDF: 108.6/76

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 191.405+/-0.064 $\chi^2$/NDF: 5063603.7/15

Left Out: 123.963+/-0.022 $\chi^2$/NDF:2761734.4/21

Right Out: 154.121+/-0.058 $\chi^2$/NDF: 6108665.0/17

Left In: 128.994+/-0.023 $\chi^2$/NDF:2152670.4/20

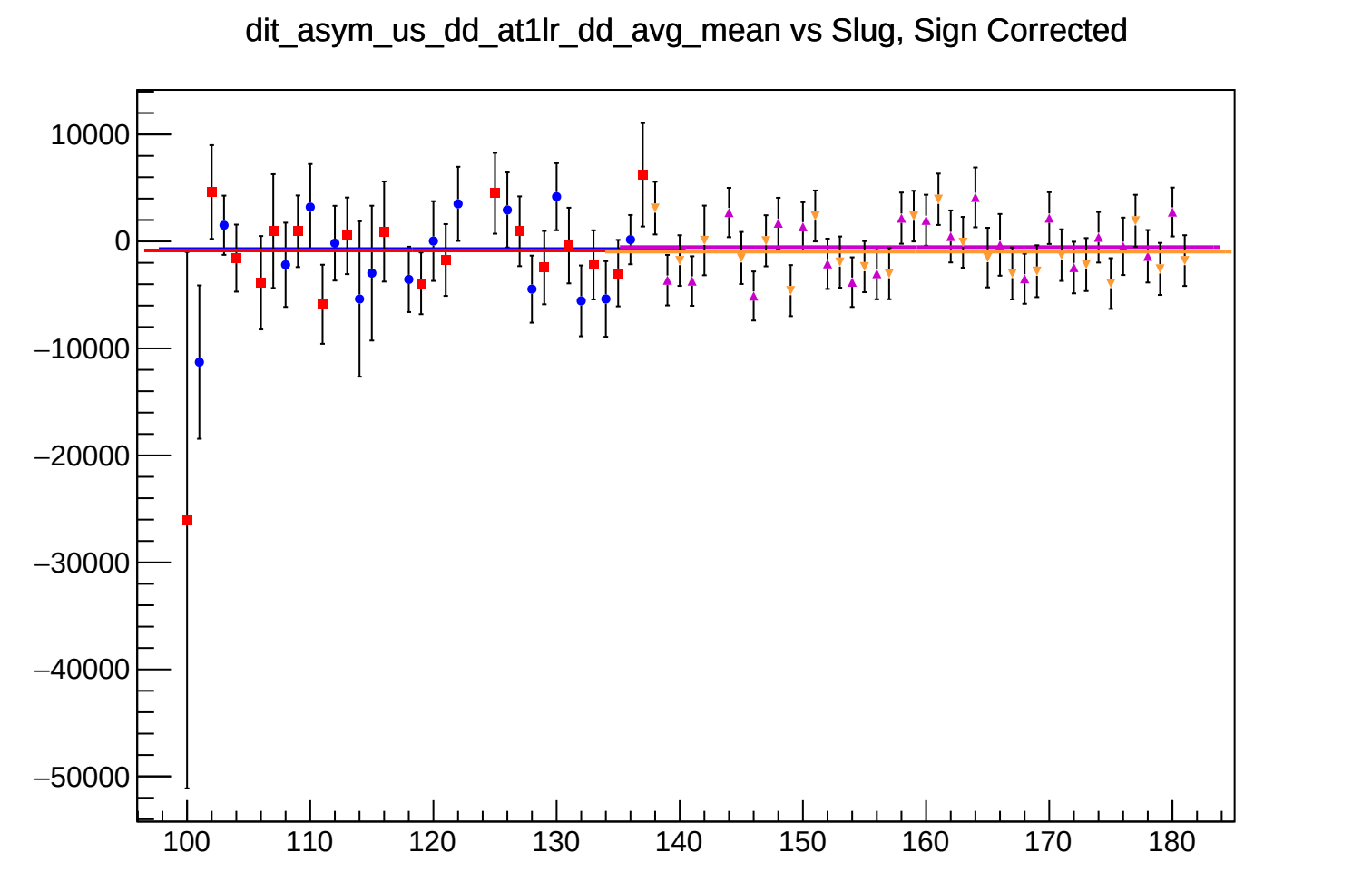
Left: 126.381+/-0.016 $\chi^2$/NDF: 4938968.0/42

Right: 170.917+/-0.043 $\chi^2$/NDF: 11357079.8/33

In: 136.147+/-0.022 $\chi^2$/NDF:8050658.0/36

Out: 127.809+/-0.021 $\chi^2$/NDF:9104580.4/39

All: 131.786+/-0.015 $\chi^2$/NDF: 17231994.5/76




Right In: -717.136+/-873.539 $\chi^2$/NDF: 15.8/15

Left Out: -952.022+/-520.685 $\chi^2$/NDF:20.1/21

Right Out: -842.157+/-873.586 $\chi^2$/NDF: 12.2/17

Left In: -534.780+/-525.412 $\chi^2$/NDF:25.7/20

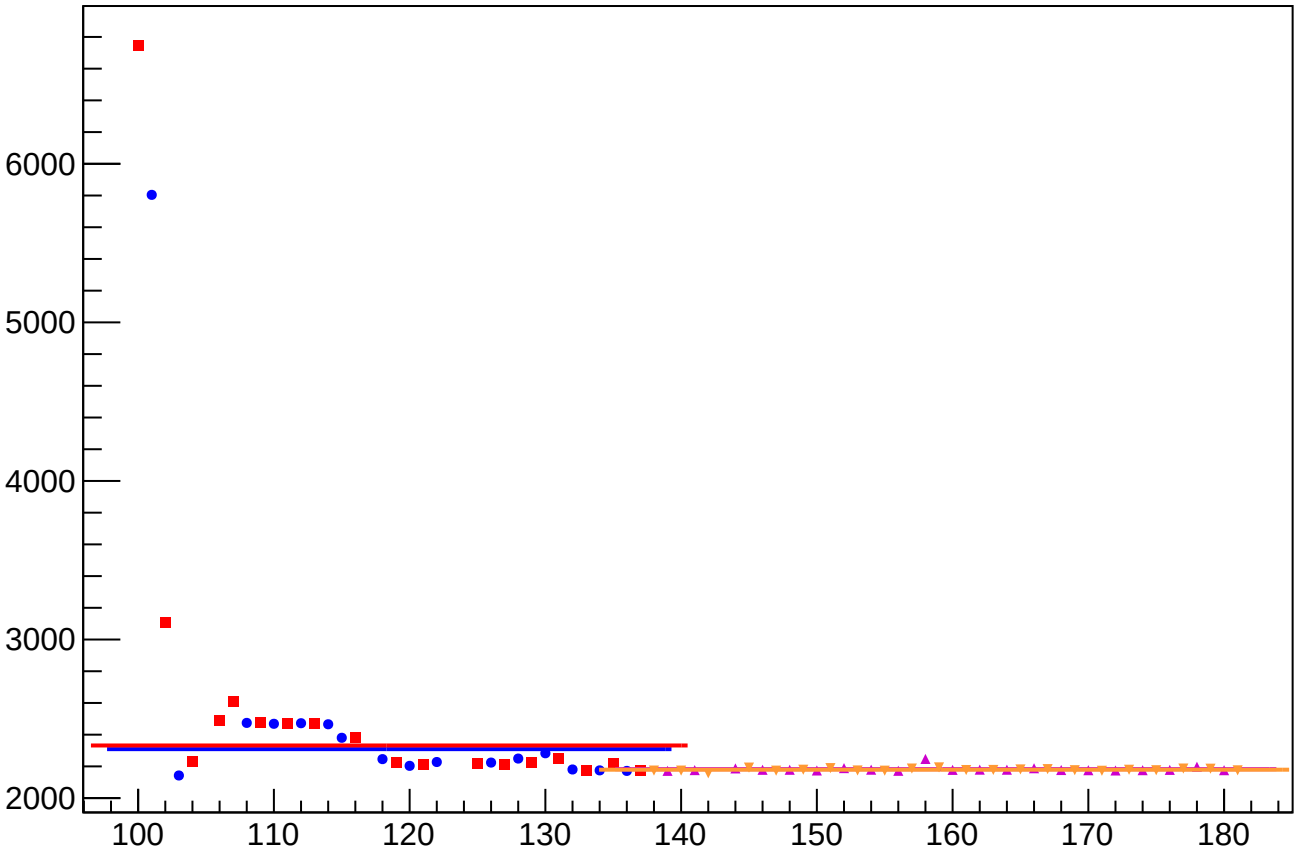
Left: -745.286+/-369.840 $\chi^2$/NDF: 46.2/42

Right: -779.643+/-617.702 $\chi^2$/NDF: 28.0/33

In: -583.225+/-450.244 $\chi^2$/NDF:41.6/36

Out: -923.223+/-447.265 $\chi^2$/NDF:32.3/39

All: -754.352+/-317.312 $\chi^2$/NDF: 74.2/76




Right In: 2308.739+/-0.618 $\chi^2$/NDF: 513742.2/15

Left Out: 2179.097+/-0.368 $\chi^2$/NDF:410.2/21

Right Out: 2331.849+/-0.618 $\chi^2$/NDF: 167321.7/17

Left In: 2182.506+/-0.372 $\chi^2$/NDF:1791.1/20

Left: 2180.786+/-0.262 $\chi^2$/NDF: 2243.8/42

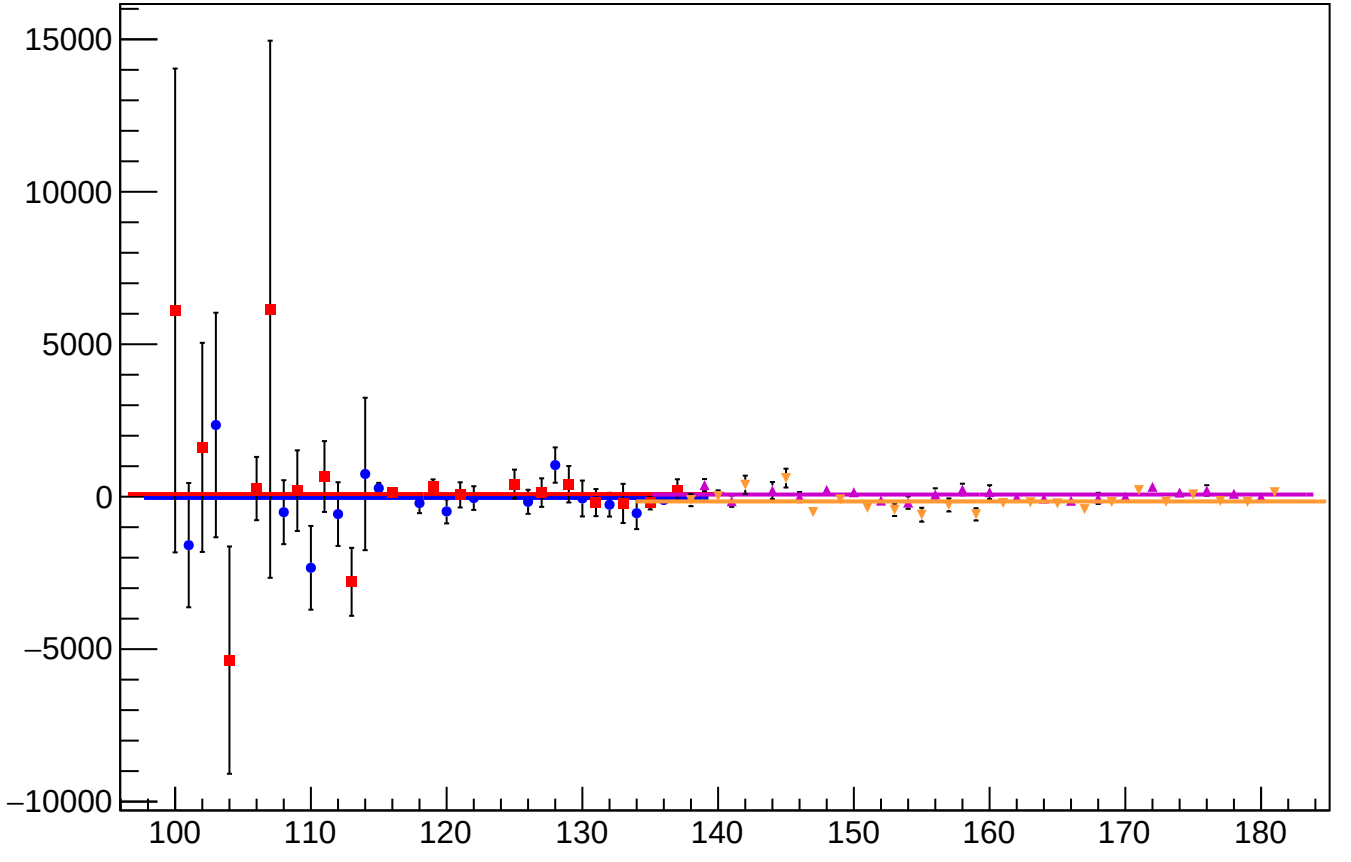
Right: 2320.294+/-0.437 $\chi^2$/NDF: 681763.7/33

In: 2216.042+/-0.318 $\chi^2$/NDF:546202.9/36

Out: 2219.138+/-0.316 $\chi^2$/NDF:212852.5/39

All: 2217.600+/-0.224 $\chi^2$/NDF: 759103.1/76

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -40.119+/-92.409 $\chi^2$/NDF: 14.1/15

Left Out: -155.711+/-34.131 $\chi^2$/NDF:45.7/21

Right Out: 86.379+/-86.088 $\chi^2$/NDF: 15.0/17

Left In: 70.634+/-34.356 $\chi^2$/NDF:18.9/20

Left: -43.282+/-24.213 $\chi^2$/NDF: 86.4/42

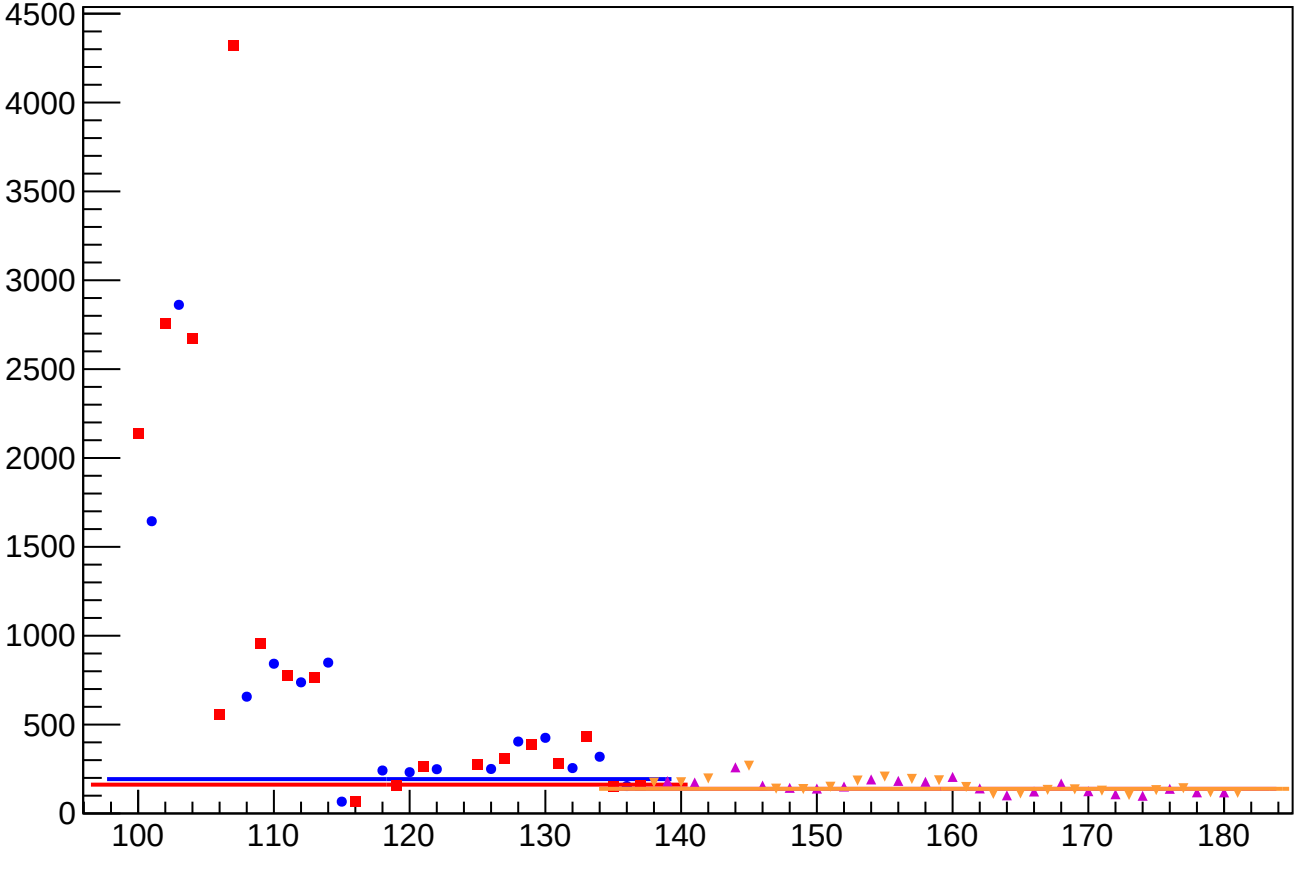
Right: 27.604+/-62.990 $\chi^2$/NDF: 30.0/33

In: 57.184+/-32.202 $\chi^2$/NDF:34.2/36

Out: -122.827+/-31.728 $\chi^2$/NDF:67.5/39

All: -34.156+/-22.601 $\chi^2$/NDF: 117.5/76

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 193.255+/-0.065 $\chi^2$/NDF: 5617847.0/15

Left Out: 138.654+/-0.024 $\chi^2$/NDF:1604526.9/21

Right Out: 162.114+/-0.061 $\chi^2$/NDF: 7070489.1/17

Left In: 138.345+/-0.024 $\chi^2$/NDF:1800115.6/20

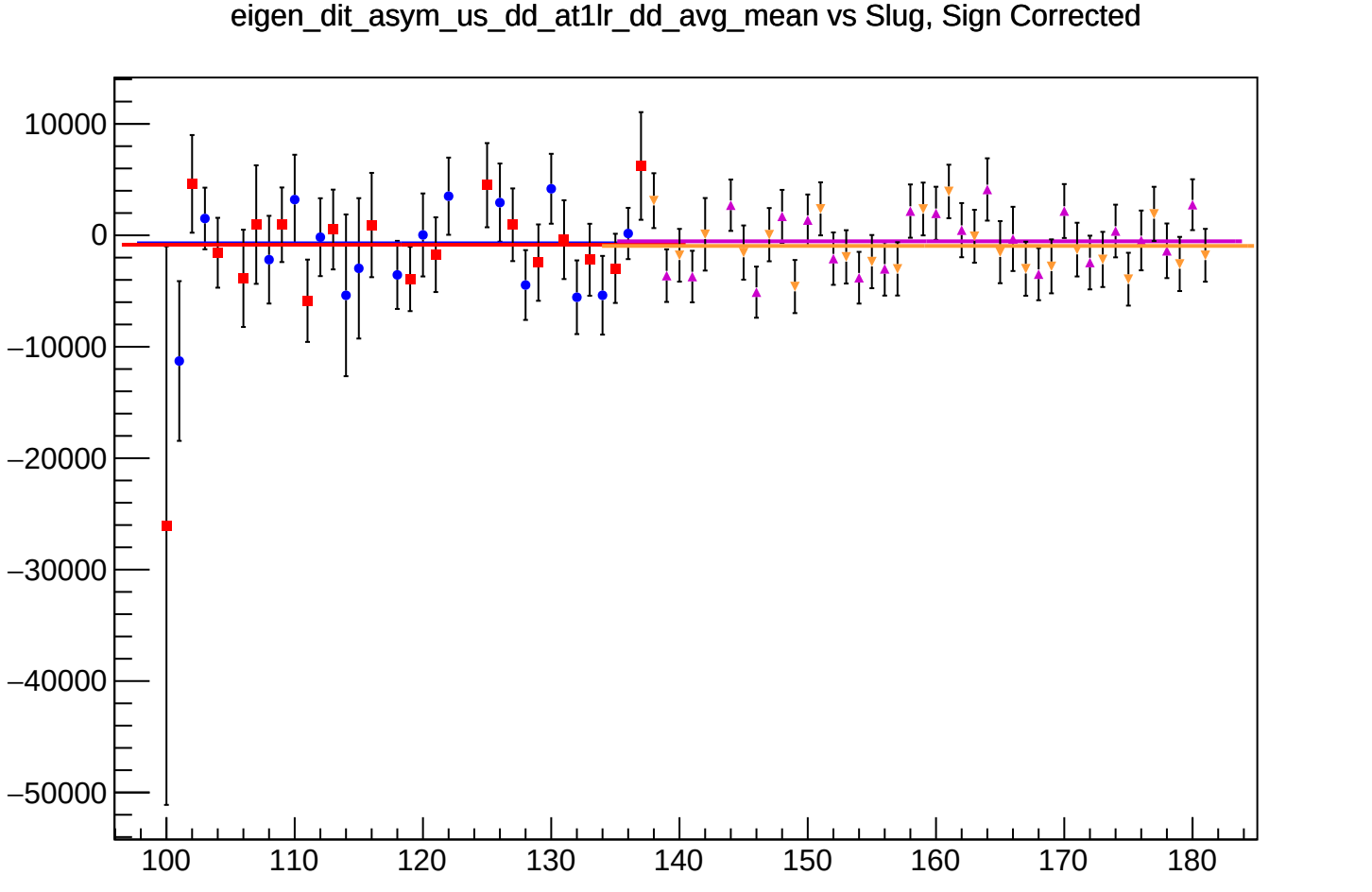
Left: 138.501+/-0.017 $\chi^2$/NDF: 3404724.2/42

Right: 176.583+/-0.045 $\chi^2$/NDF: 12809933.8/33

In: 145.013+/-0.023 $\chi^2$/NDF:8038381.1/36

Out: 141.841+/-0.022 $\chi^2$/NDF:8803363.5/39

All: 143.403+/-0.016 $\chi^2$/NDF: 16851590.6/76




Right In: -717.137+/-873.539 $\chi^2$/NDF: 15.8/15

Left Out: -952.023+/-520.685 $\chi^2$/NDF:20.1/21

Right Out: -842.159+/-873.586 $\chi^2$/NDF: 12.2/17

Left In: -534.779+/-525.412 $\chi^2$/NDF:25.7/20

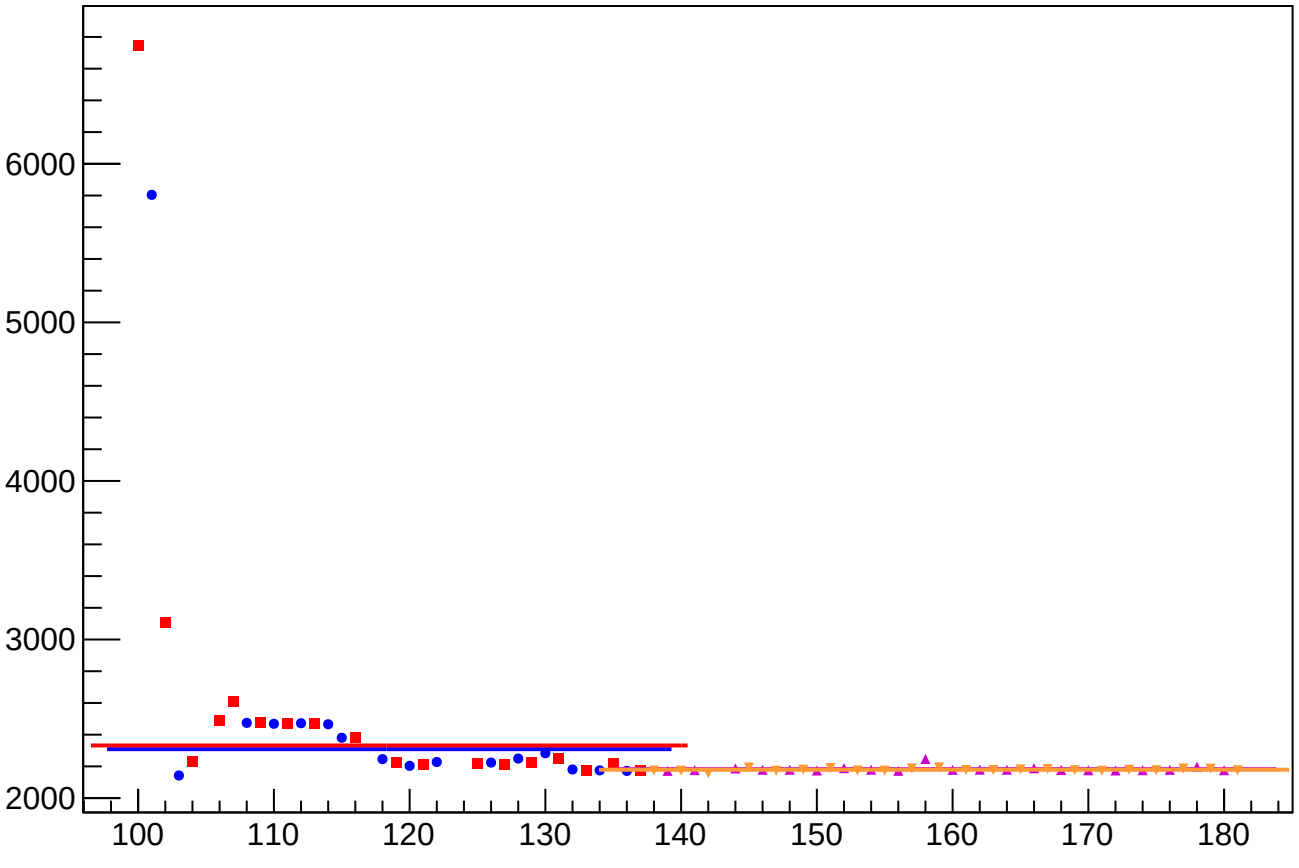
Left: -745.286+/-369.840 $\chi^2$/NDF: 46.2/42

Right: -779.645+/-617.702 $\chi^2$/NDF: 28.0/33

In: -583.225+/-450.244 $\chi^2$/NDF:41.6/36

Out: -923.224+/-447.265 $\chi^2$/NDF:32.3/39

All: -754.353+/-317.312 $\chi^2$/NDF: 74.2/76




Right In: 2308.739+/-0.618 $\chi^2$/NDF: 513742.2/15

Left Out: 2179.097+/-0.368 $\chi^2$/NDF:410.2/21

Right Out: 2331.849+/-0.618 $\chi^2$/NDF: 167321.6/17

Left In: 2182.506+/-0.372 $\chi^2$/NDF:1791.1/20

Left: 2180.786+/-0.262 $\chi^2$/NDF: 2243.8/42

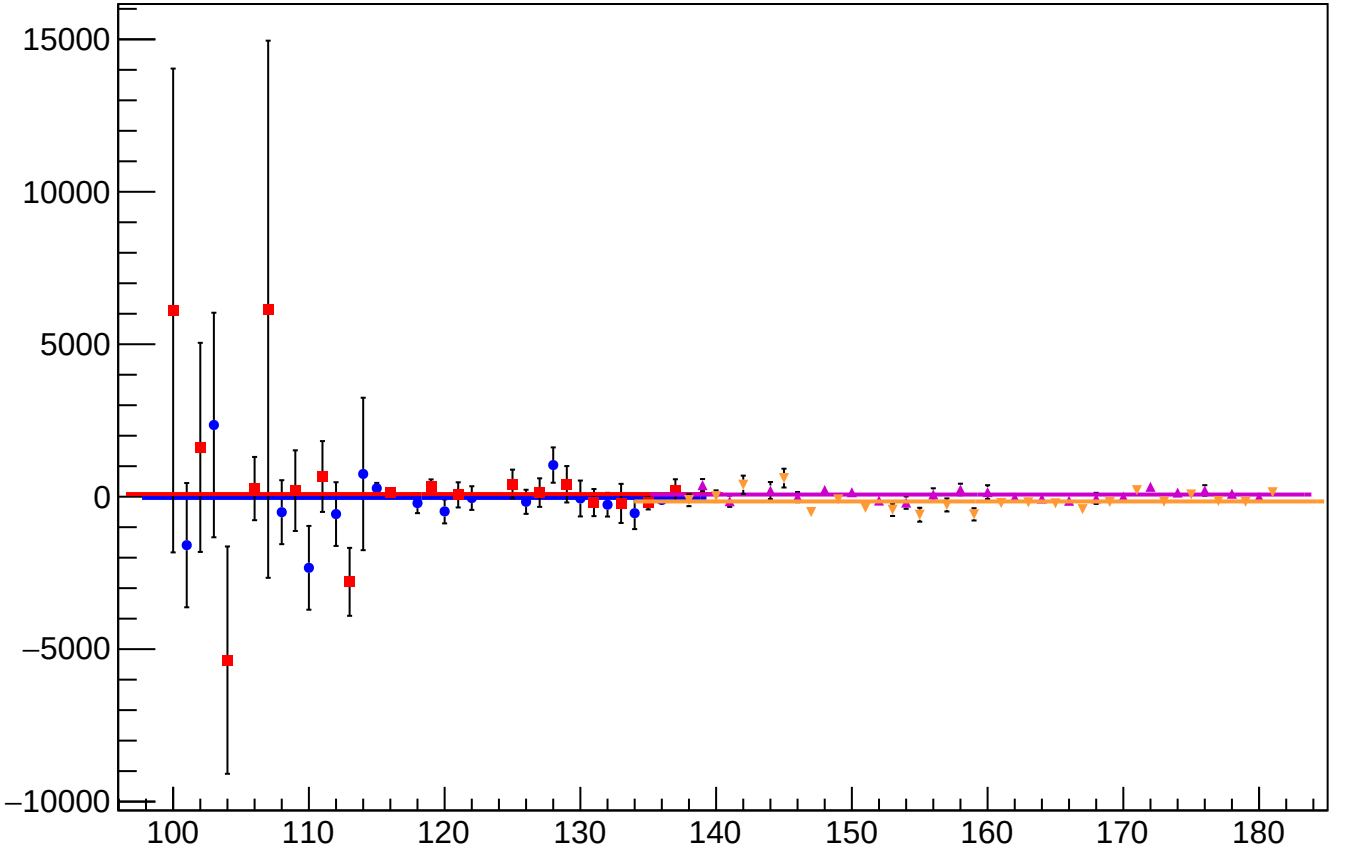
Right: 2320.294+/-0.437 $\chi^2$/NDF: 681763.7/33

In: 2216.042+/-0.318 $\chi^2$/NDF:546203.0/36

Out: 2219.138+/-0.316 $\chi^2$/NDF:212852.4/39

All: 2217.600+/-0.224 $\chi^2$/NDF: 759103.0/76

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -40.116+/-92.408 $\chi^2$/NDF: 14.1/15

Left Out: -155.712+/-34.131 $\chi^2$/NDF:45.7/21

Right Out: 86.380+/-86.087 $\chi^2$/NDF: 15.0/17

Left In: 70.633+/-34.356 $\chi^2$/NDF:18.9/20

Left: -43.283+/-24.213 $\chi^2$/NDF: 86.4/42

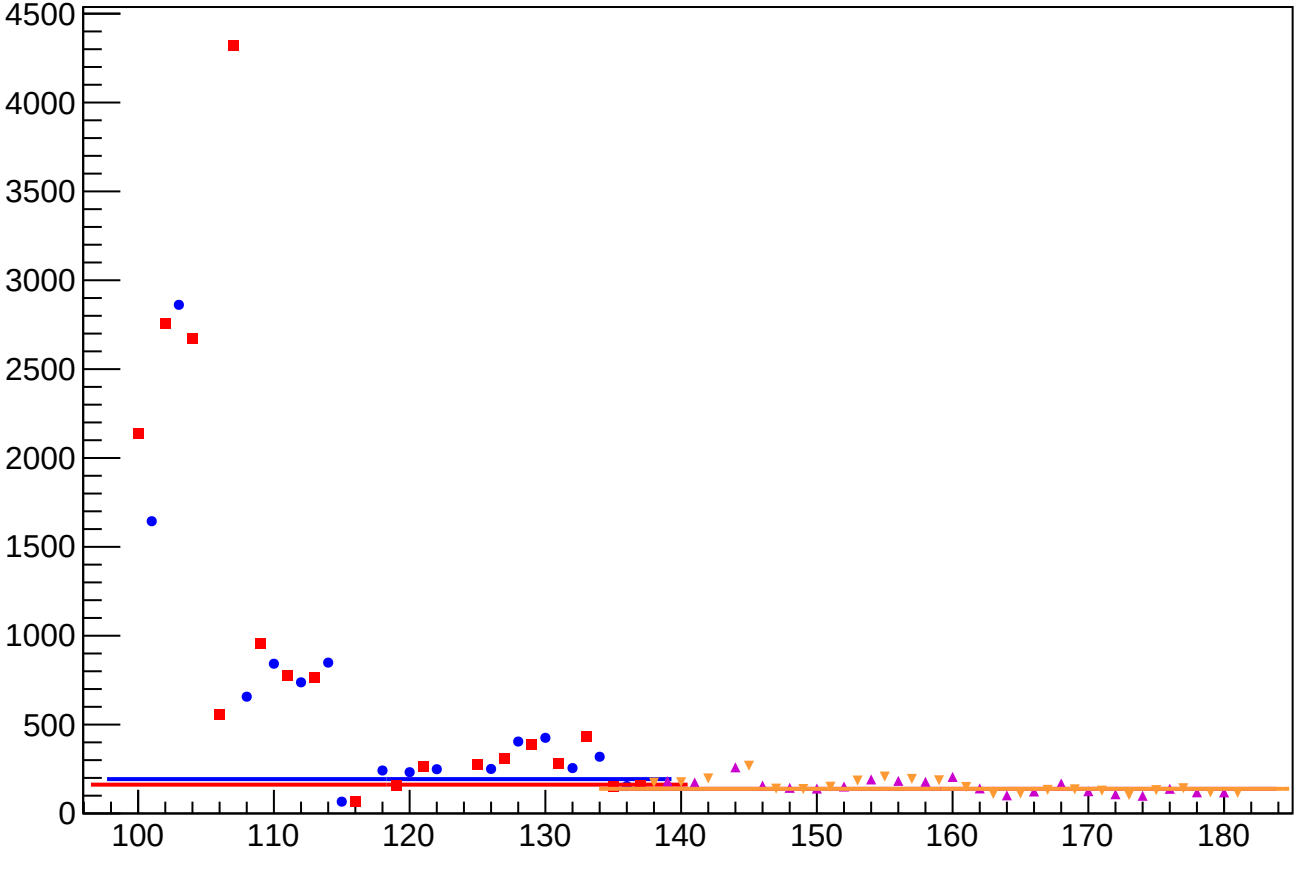
Right: 27.606+/-62.989 $\chi^2$/NDF: 30.0/33

In: 57.184+/-32.202 $\chi^2$/NDF:34.2/36

Out: -122.827+/-31.728 $\chi^2$/NDF:67.5/39

All: -34.156+/-22.601 $\chi^2$/NDF: 117.5/76

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 193.253+/-0.065 $\chi^2$/NDF: 5617884.1/15

Left Out: 138.655+/-0.024 $\chi^2$/NDF:1604522.5/21

Right Out: 162.112+/-0.061 $\chi^2$/NDF: 7070547.9/17

Left In: 138.345+/-0.024 $\chi^2$/NDF:1800151.8/20

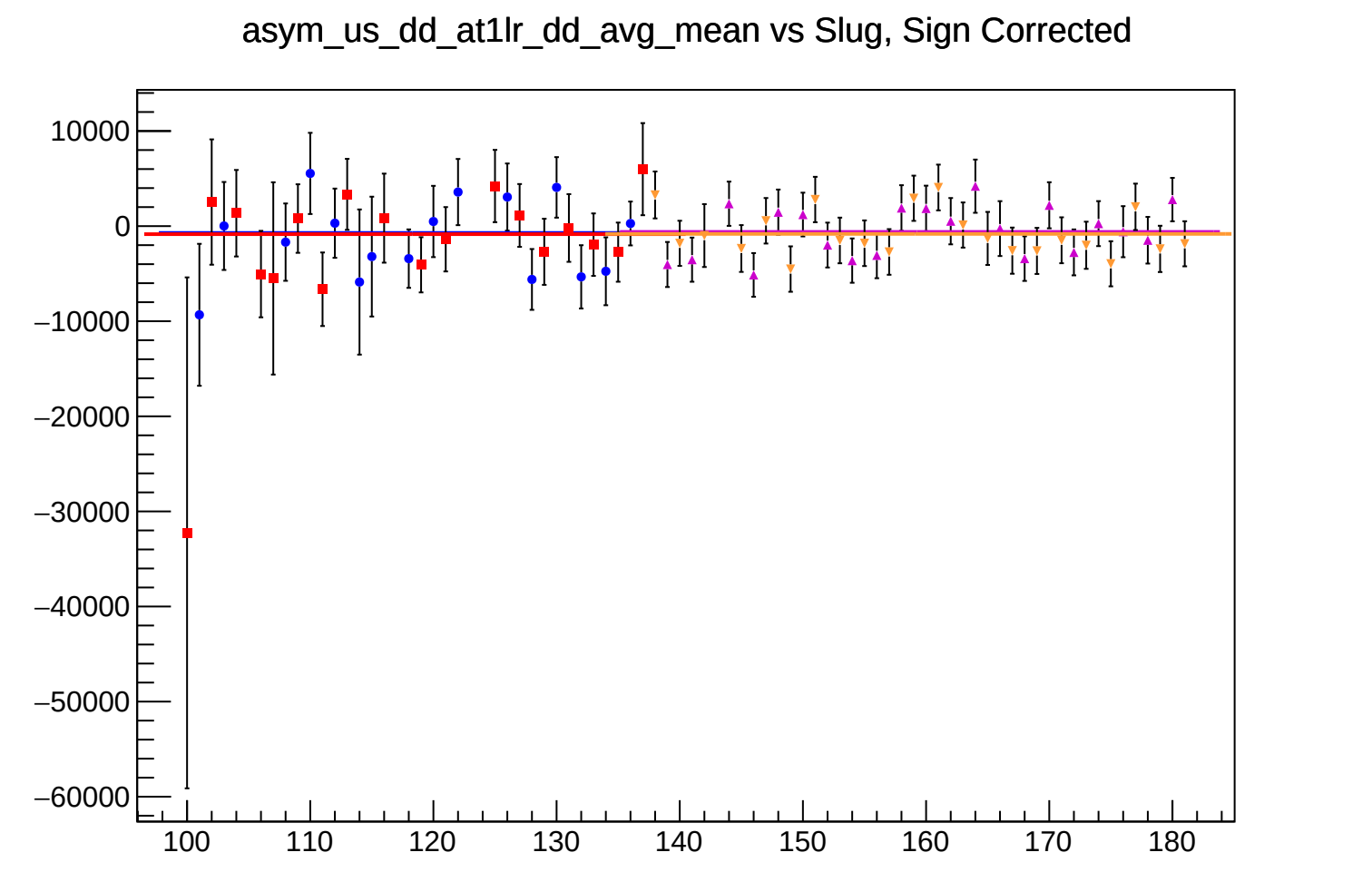
Left: 138.501+/-0.017 $\chi^2$/NDF: 3404756.1/42

Right: 176.581+/-0.045 $\chi^2$/NDF: 12810031.9/33

In: 145.013+/-0.023 $\chi^2$/NDF:8038409.5/36

Out: 141.841+/-0.022 $\chi^2$/NDF:8803391.4/39

All: 143.403+/-0.016 $\chi^2$/NDF: 16851646.5/76




Right In: -719.565+/-916.228 $\chi^2$/NDF: 15.8/15

Left Out: -817.403+/-522.168 $\chi^2$/NDF:21.1/21

Right Out: -844.810+/-928.703 $\chi^2$/NDF: 12.9/17

Left In: -610.316+/-526.756 $\chi^2$/NDF:25.0/20

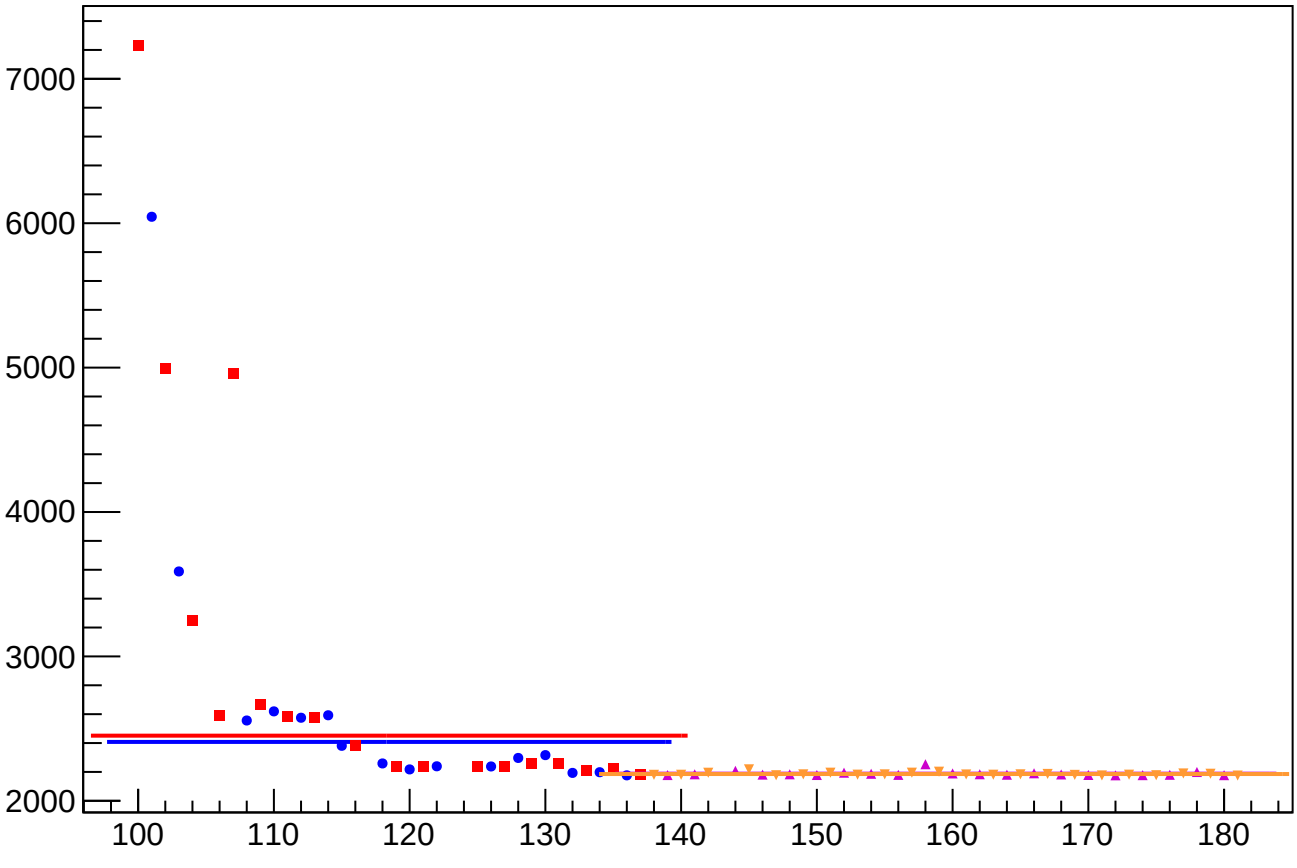
Left: -714.765+/-370.840 $\chi^2$/NDF: 46.2/42

Right: -781.340+/-652.237 $\chi^2$/NDF: 28.7/33

In: -637.456+/-456.665 $\chi^2$/NDF:40.8/36

Out: -823.986+/-455.156 $\chi^2$/NDF:34.1/39

All: -731.029+/-322.376 $\chi^2$/NDF: 75.0/76




Right In: 2407.795+/-0.648 $\chi^2$/NDF: 676891.3/15

Left Out: 2185.438+/-0.369 $\chi^2$/NDF:702.4/21

Right Out: 2451.189+/-0.657 $\chi^2$/NDF: 633600.1/17

Left In: 2188.083+/-0.372 $\chi^2$/NDF:2000.1/20

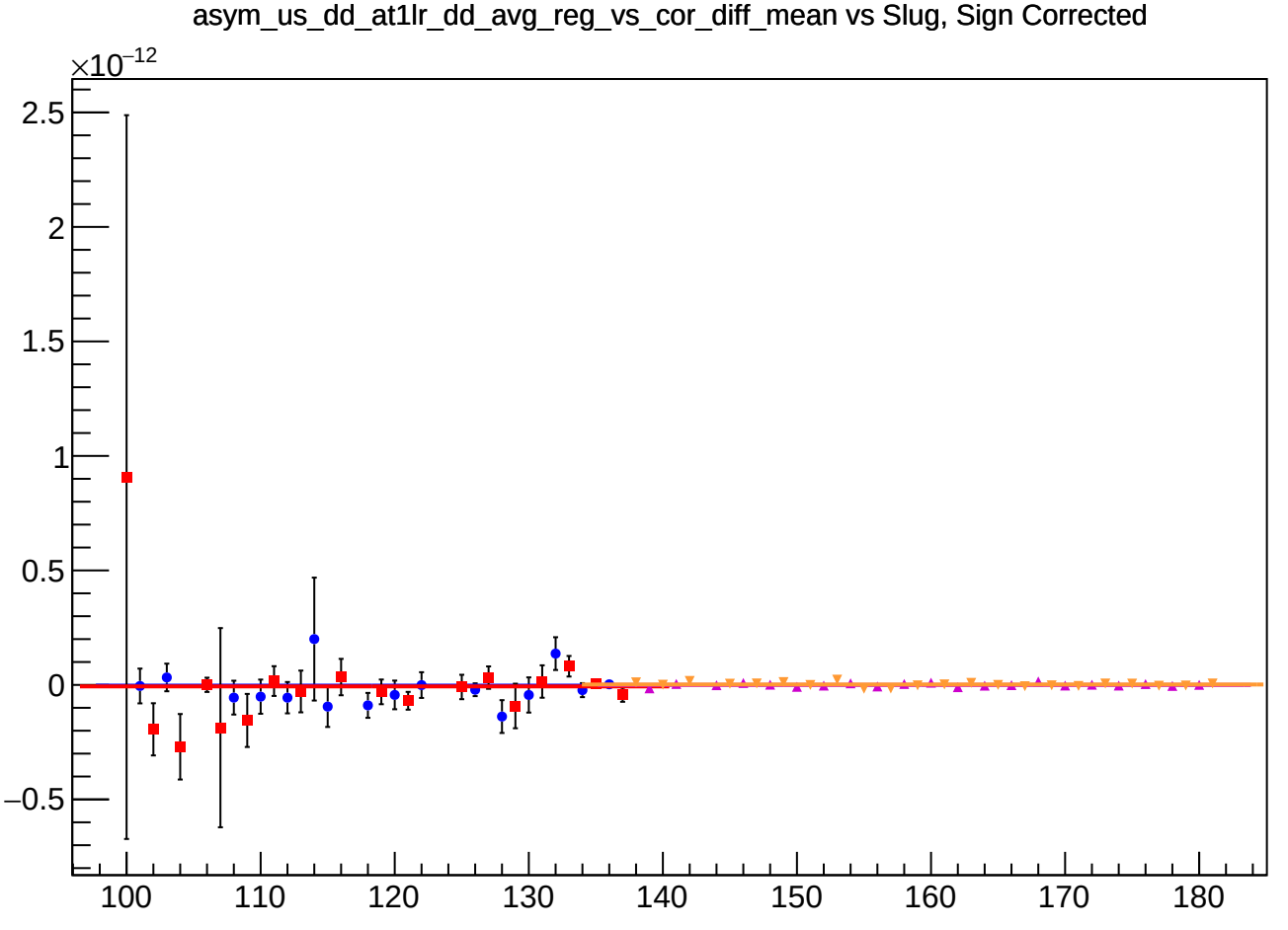
Left: 2186.749+/-0.262 $\chi^2$/NDF: 2727.9/42

Right: 2429.198+/-0.461 $\chi^2$/NDF: 1312704.2/33

In: 2242.664+/-0.323 $\chi^2$/NDF:765329.7/36

Out: 2249.271+/-0.322 $\chi^2$/NDF:758733.5/39

All: 2245.978+/-0.228 $\chi^2$/NDF: 1524273.3/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.7/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.1/20

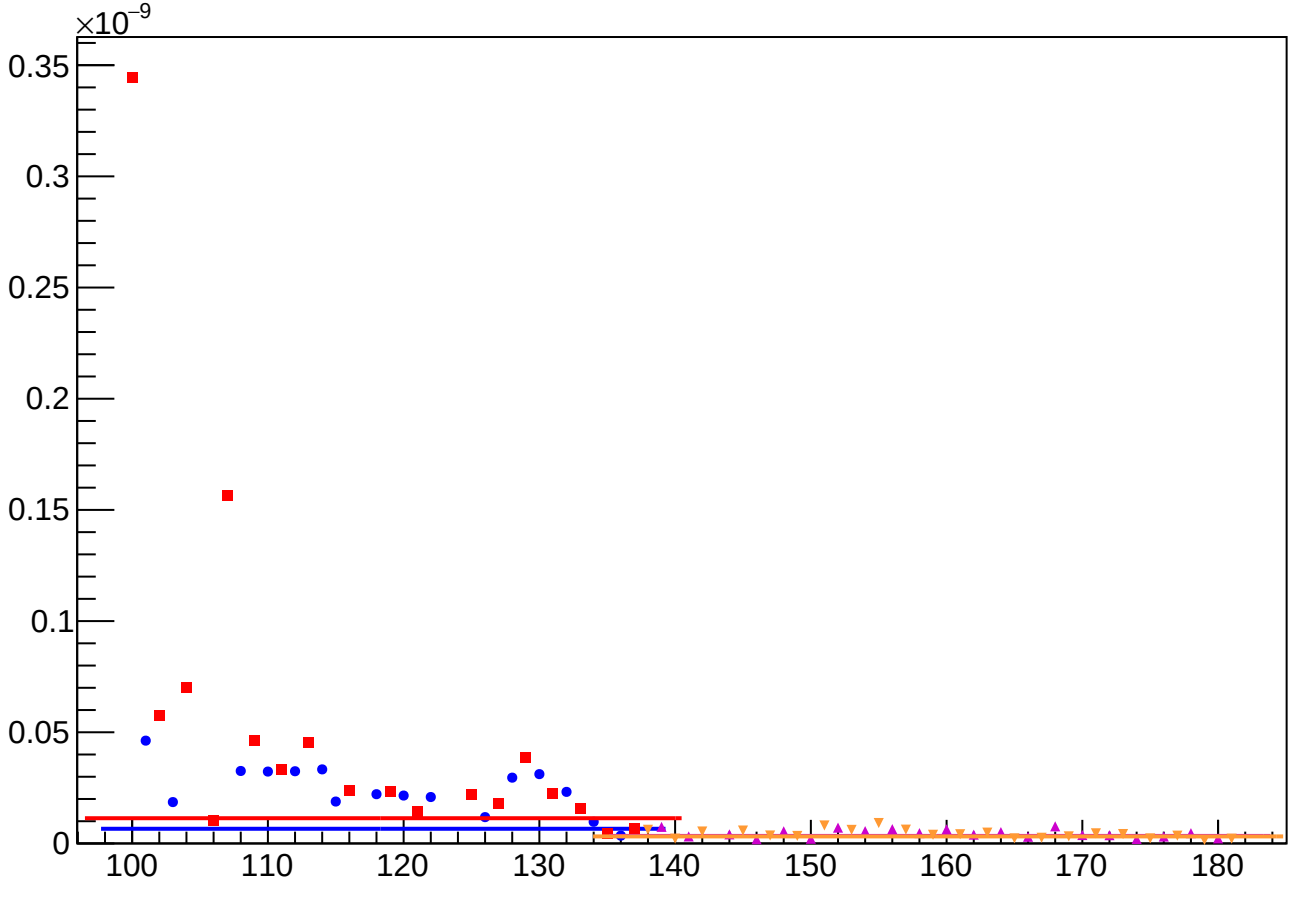
Left: 0.000+/-0.000 $\chi^2$/NDF: 32.5/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:28.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:38.2/39

All: 0.000+/-0.000 $\chi^2$/NDF: 68.0/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2856979.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2016055.6/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2697712.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1691597.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3726806.5/42

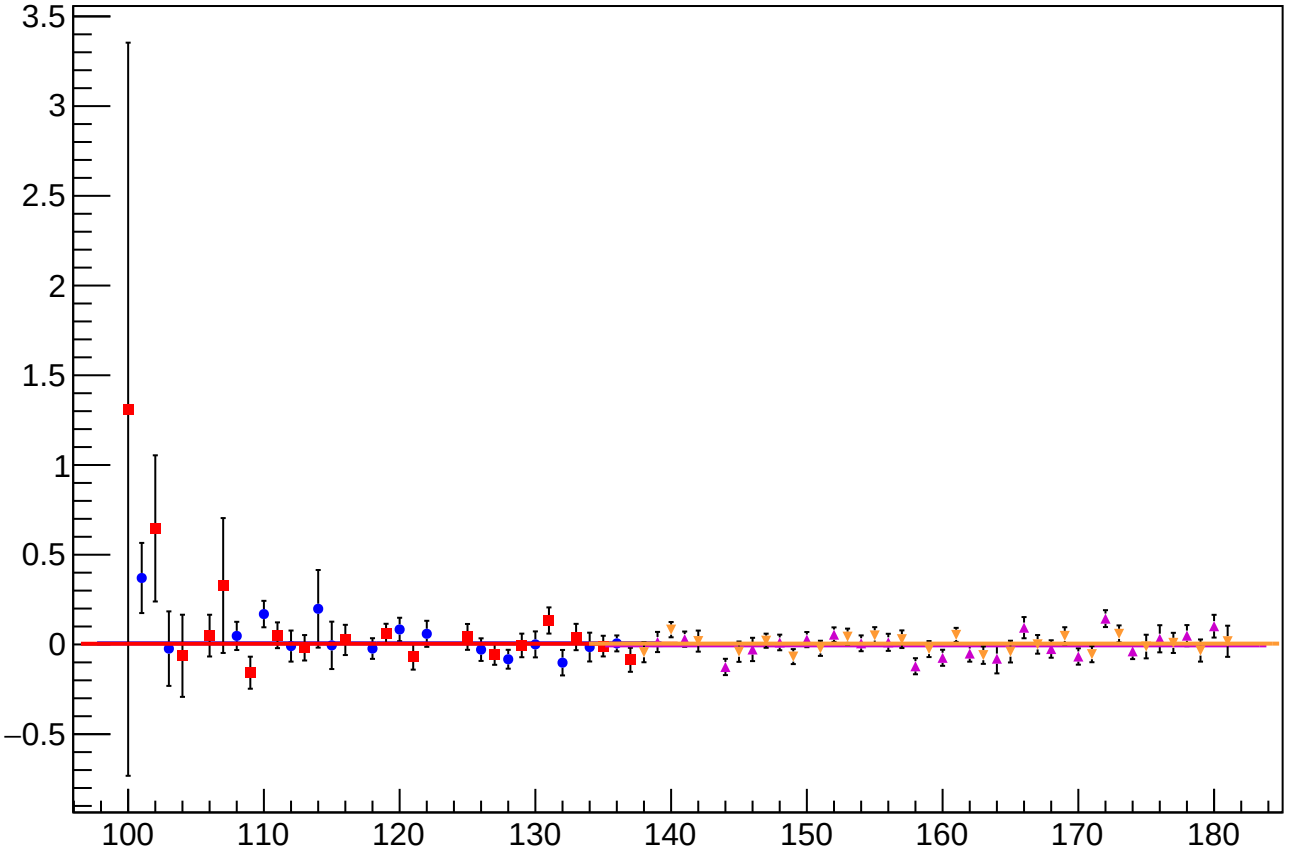
Right: 0.000+/-0.000 $\chi^2$/NDF: 5888629.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:5037765.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6086398.0/39

All: 0.000+/-0.000 $\chi^2$/NDF: 11147813.0/76

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.006+/-0.018 $\chi^2$/NDF: 17.2/15

Left Out: 0.005+/-0.010 $\chi^2$/NDF:18.9/21

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.005+/-0.011 $\chi^2$/NDF:41.3/20

Left: -0.000+/-0.007 $\chi^2$/NDF: 60.6/42

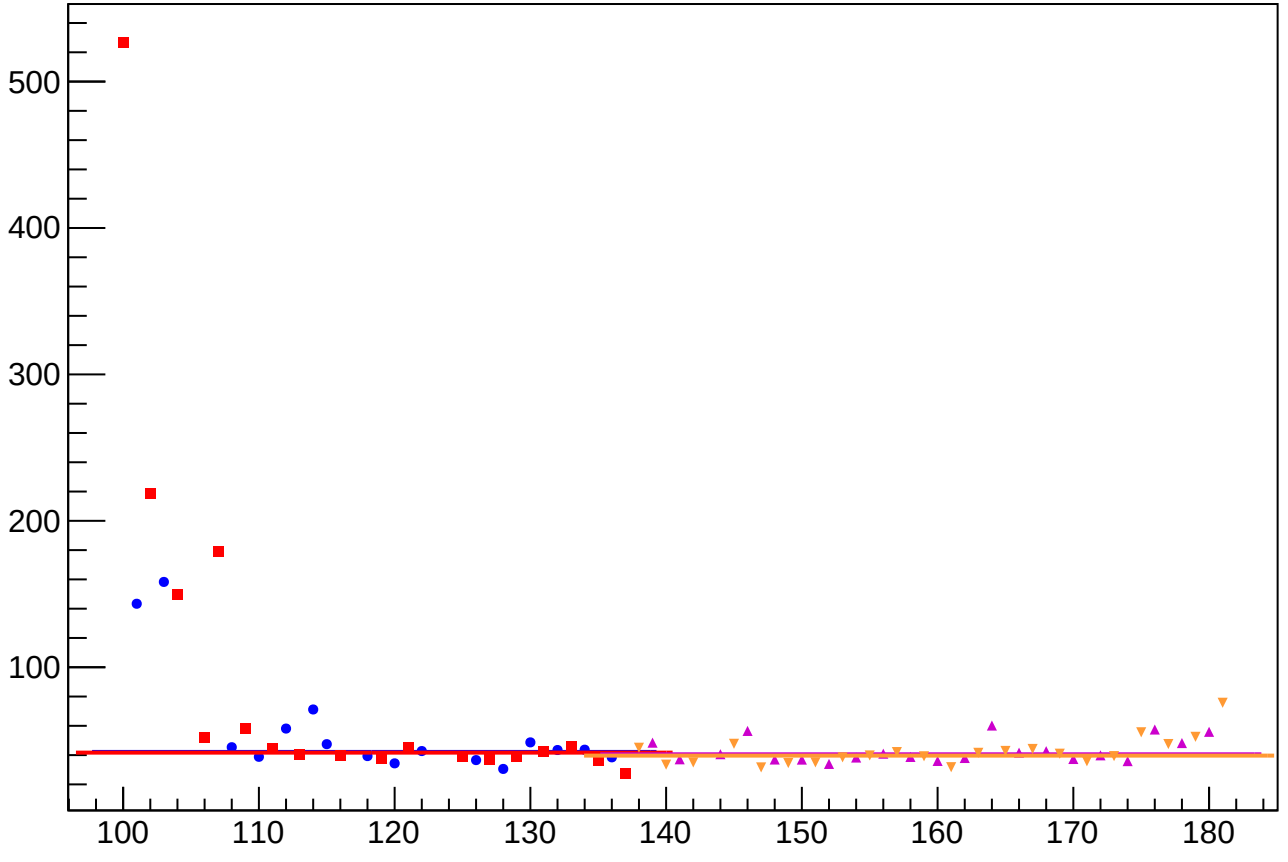
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.002+/-0.009 $\chi^2$/NDF:58.8/36

Out: 0.004+/-0.009 $\chi^2$/NDF:35.1/39

All: 0.001+/-0.006 $\chi^2$/NDF: 94.2/76

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.165+/-0.013 $\chi^2$/NDF: 1454378.8/15

Left Out: 39.653+/-0.007 $\chi^2$/NDF:968094.0/21

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441204.7/17

Left In: 40.556+/-0.008 $\chi^2$/NDF:693361.9/20

Left: 40.095+/-0.005 $\chi^2$/NDF: 1668757.5/42

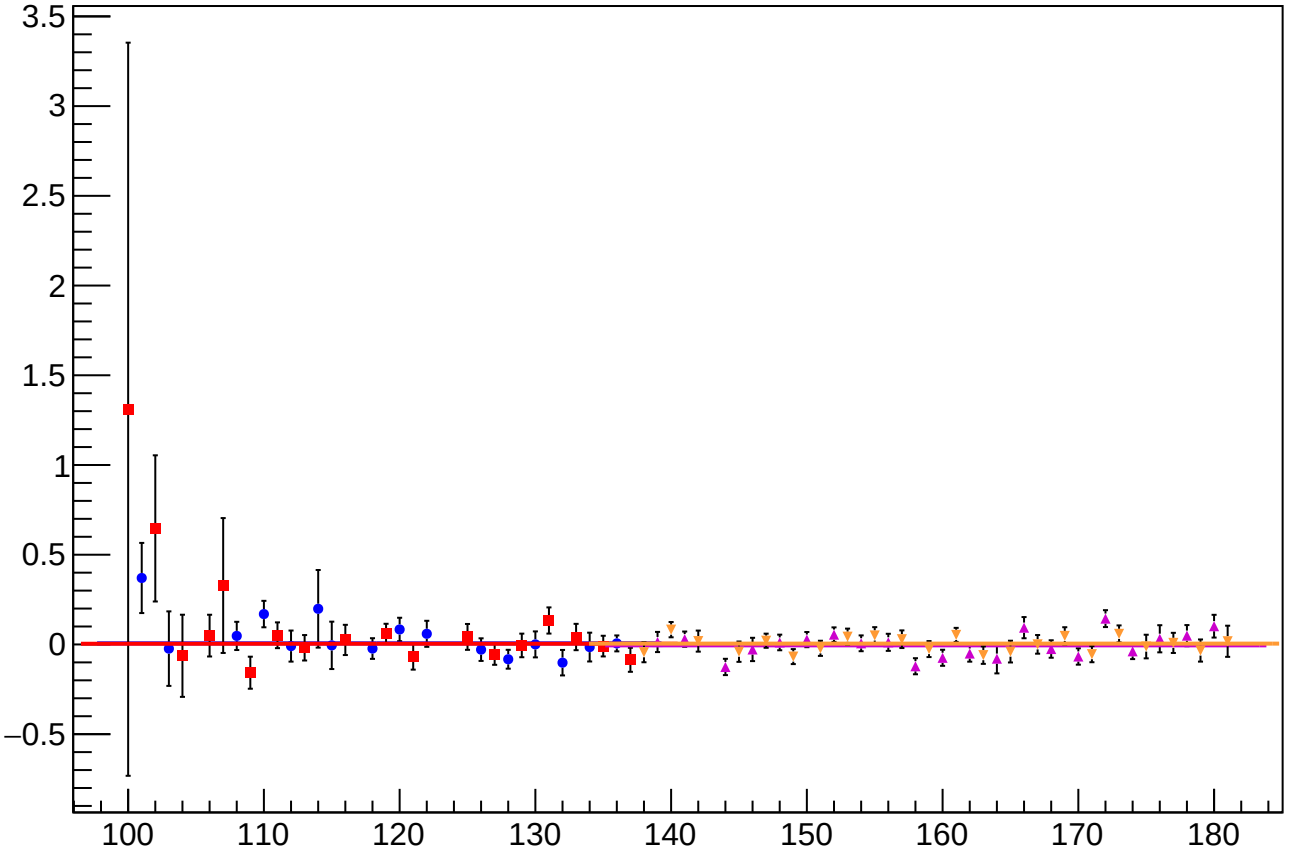
Right: 41.933+/-0.009 $\chi^2$/NDF: 2896244.2/33

In: 40.966+/-0.007 $\chi^2$/NDF:2159316.9/36

Out: 40.143+/-0.006 $\chi^2$/NDF:2427581.7/39

All: 40.549+/-0.005 $\chi^2$/NDF: 4594976.7/76

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.006+/-0.018 $\chi^2$/NDF: 17.2/15

Left Out: 0.005+/-0.010 $\chi^2$/NDF:18.9/21

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.005+/-0.011 $\chi^2$/NDF:41.3/20

Left: -0.000+/-0.007 $\chi^2$/NDF: 60.6/42

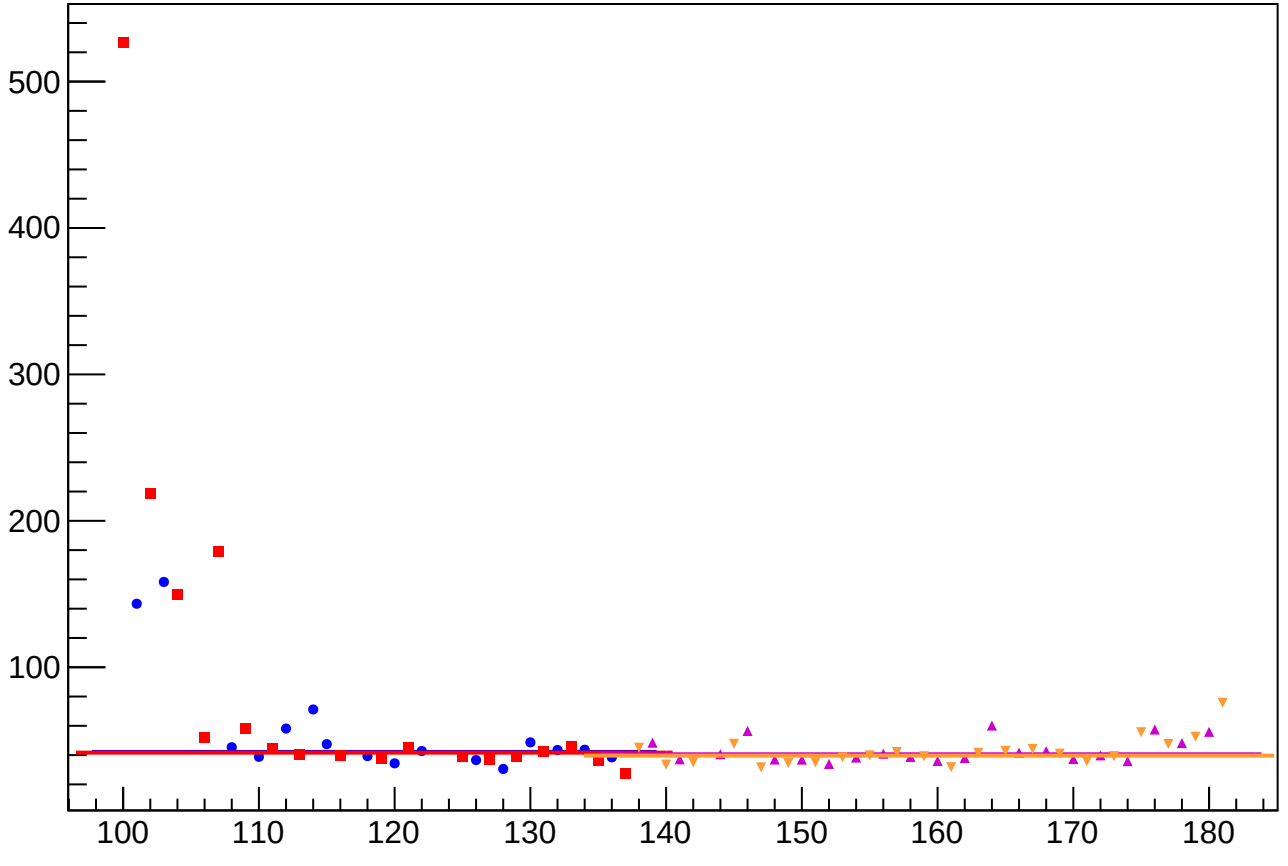
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.002+/-0.009 $\chi^2$/NDF:58.8/36

Out: 0.004+/-0.009 $\chi^2$/NDF:35.1/39

All: 0.001+/-0.006 $\chi^2$/NDF: 94.2/76

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.165+/-0.013 $\chi^2$/NDF: 1454378.8/15

Left Out: 39.653+/-0.007 $\chi^2$/NDF:968094.0/21

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441204.7/17

Left In: 40.556+/-0.008 $\chi^2$/NDF:693361.9/20

Left: 40.095+/-0.005 $\chi^2$/NDF: 1668757.5/42

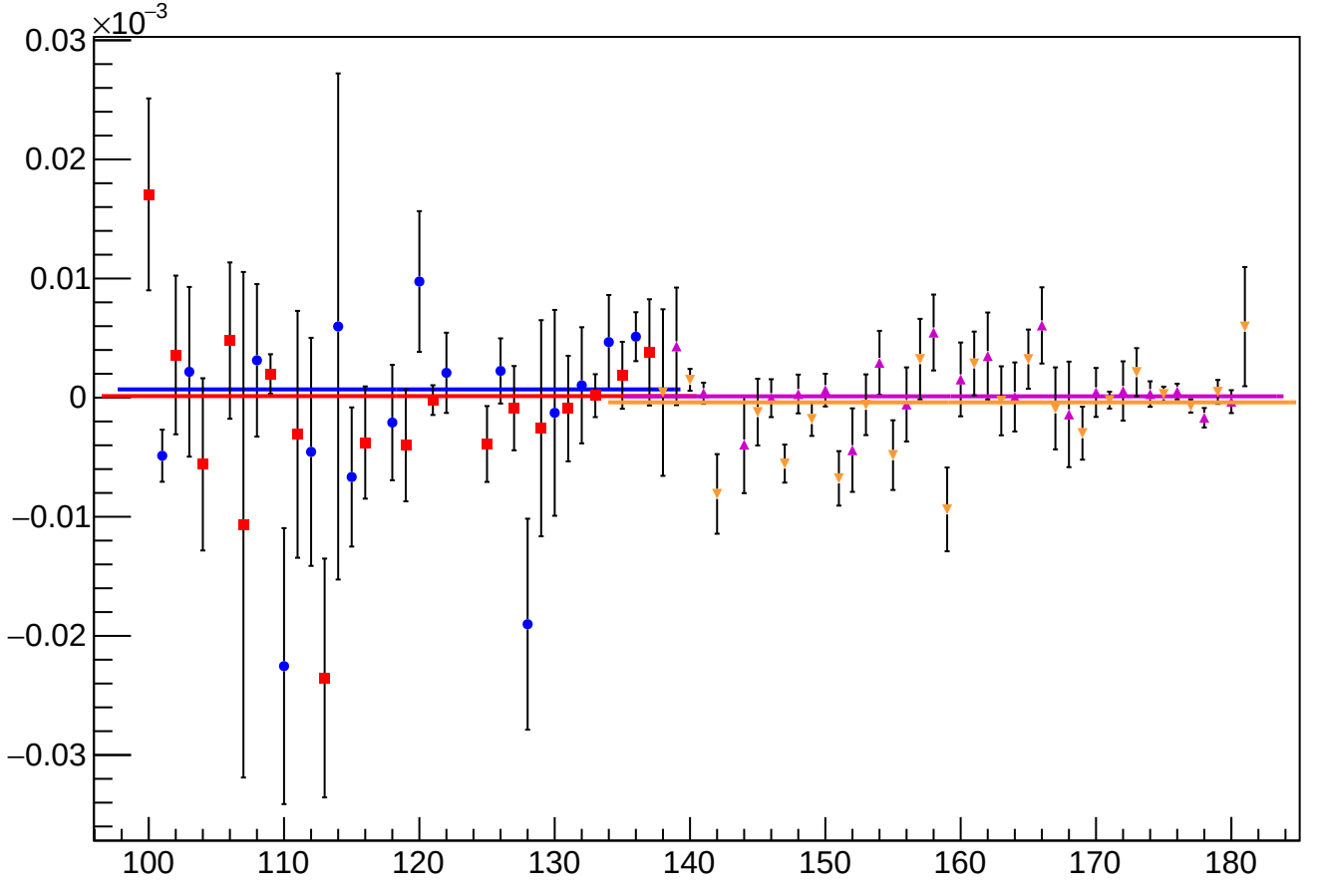
Right: 41.933+/-0.009 $\chi^2$/NDF: 2896244.2/33

In: 40.966+/-0.007 $\chi^2$/NDF:2159316.9/36

Out: 40.143+/-0.006 $\chi^2$/NDF:2427581.7/39

All: 40.549+/-0.005 $\chi^2$/NDF: 4594976.7/76

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:49.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.7/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 68.5/42

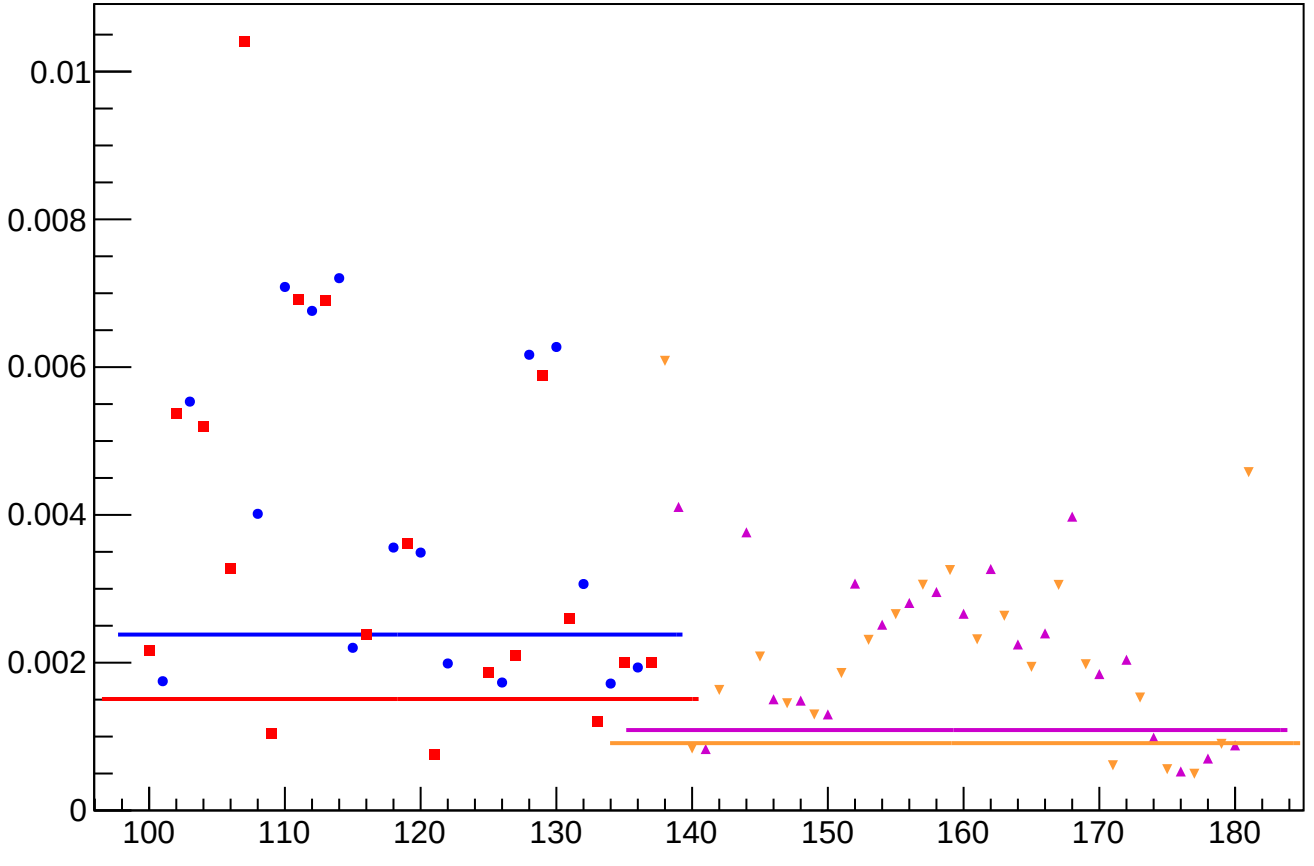
Right: 0.000+/-0.000 $\chi^2$/NDF: 44.1/33

In: 0.000+/-0.000 $\chi^2$/NDF:44.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:67.2/39

All: -0.000+/-0.000 $\chi^2$/NDF: 113.2/76

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2832488.0/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:11504257.4/21

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 5001667.0/17

Left In: 0.001+/-0.000 $\chi^2$/NDF:9889389.4/20

Left: 0.001+/-0.000 $\chi^2$/NDF: 21739528.0/42

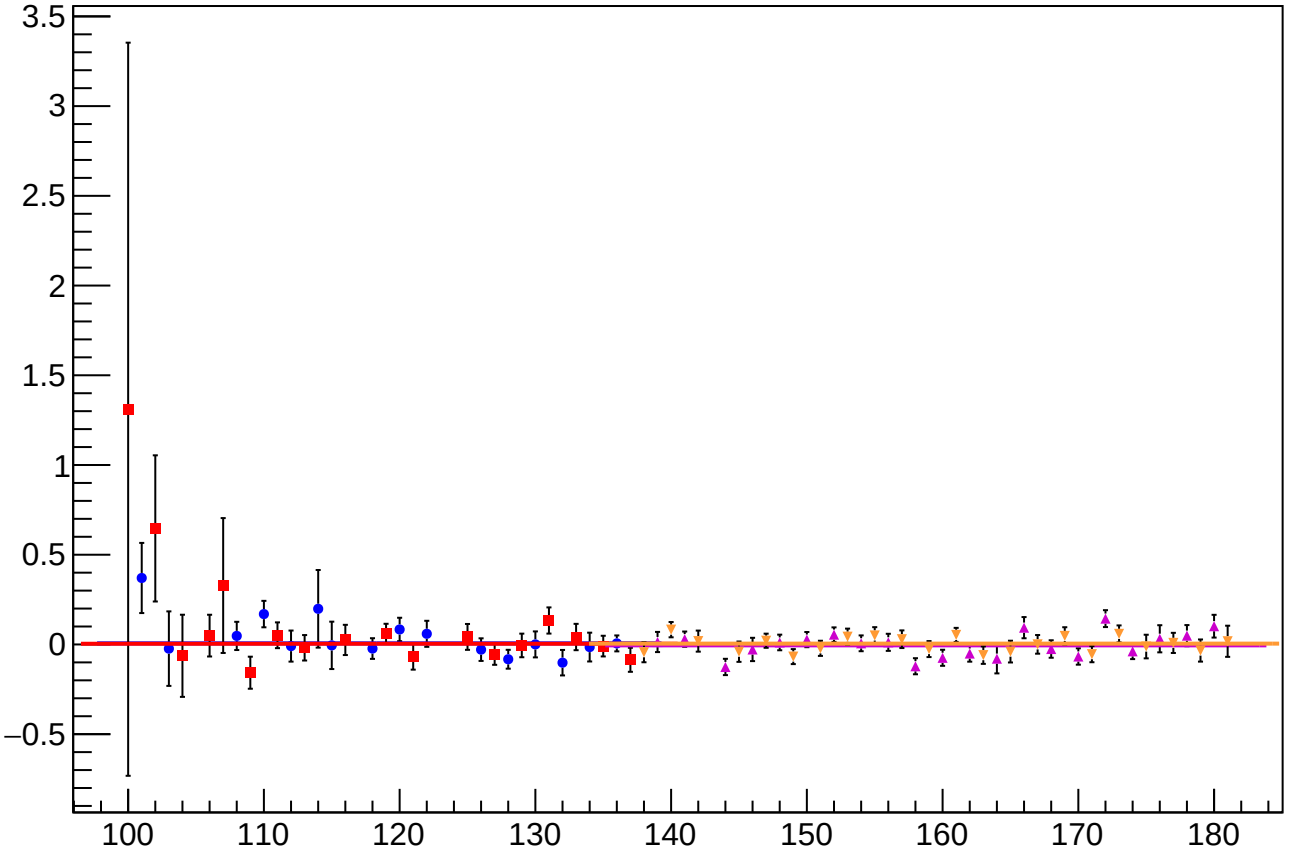
Right: 0.002+/-0.000 $\chi^2$/NDF: 8812145.3/33

In: 0.001+/-0.000 $\chi^2$/NDF:15655853.8/36

Out: 0.001+/-0.000 $\chi^2$/NDF:17699723.4/39

All: 0.001+/-0.000 $\chi^2$/NDF: 33932442.4/76

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.006+/-0.018 $\chi^2$/NDF: 17.2/15

Left Out: 0.005+/-0.010 $\chi^2$/NDF:18.9/21

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.005+/-0.011 $\chi^2$/NDF:41.3/20

Left: -0.000+/-0.007 $\chi^2$/NDF: 60.6/42

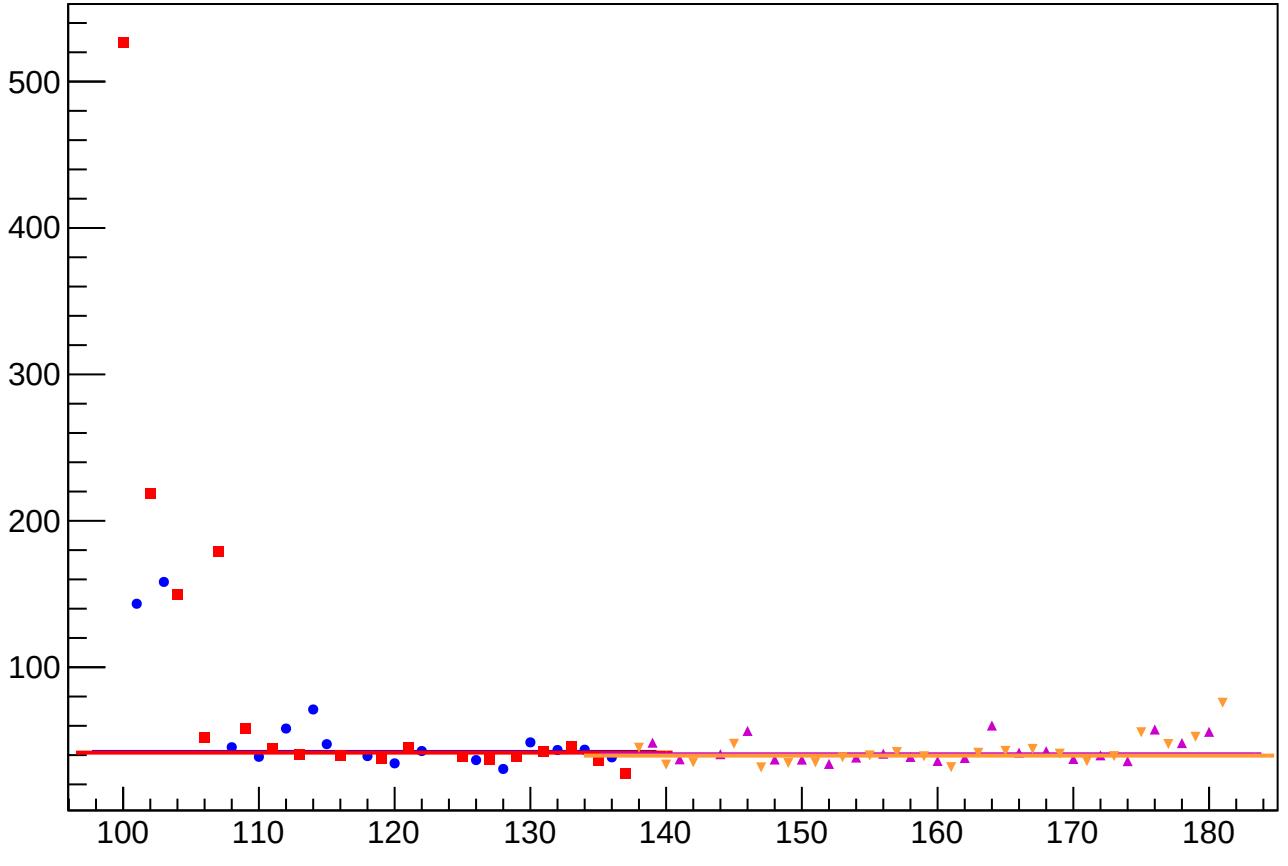
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.002+/-0.009 $\chi^2$/NDF:58.8/36

Out: 0.004+/-0.009 $\chi^2$/NDF:35.1/39

All: 0.001+/-0.006 $\chi^2$/NDF: 94.2/76

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.163+/-0.013 $\chi^2$/NDF: 1454592.8/15

Left Out: 39.653+/-0.007 $\chi^2$/NDF:968075.7/21

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441185.4/17

Left In: 40.556+/-0.008 $\chi^2$/NDF:693398.0/20

Left: 40.095+/-0.005 $\chi^2$/NDF: 1668773.6/42

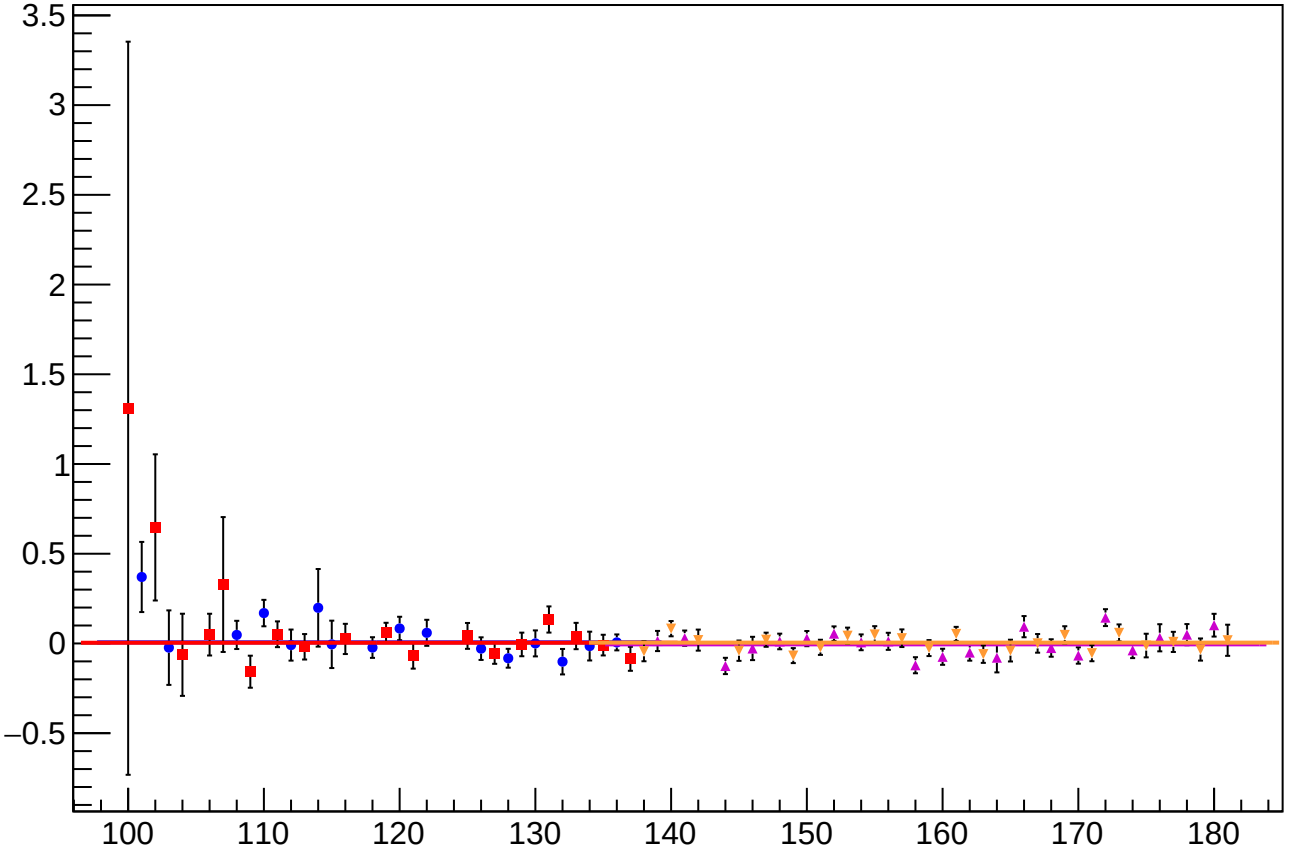
Right: 41.932+/-0.009 $\chi^2$/NDF: 2896430.8/33

In: 40.966+/-0.007 $\chi^2$/NDF:2159532.3/36

Out: 40.143+/-0.006 $\chi^2$/NDF:2427550.2/39

All: 40.549+/-0.005 $\chi^2$/NDF: 4595145.2/76

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.006+/-0.018 $\chi^2$/NDF: 17.2/15

Left Out: 0.005+/-0.010 $\chi^2$/NDF:18.9/21

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.005+/-0.011 $\chi^2$/NDF:41.3/20

Left: -0.000+/-0.007 $\chi^2$/NDF: 60.6/42

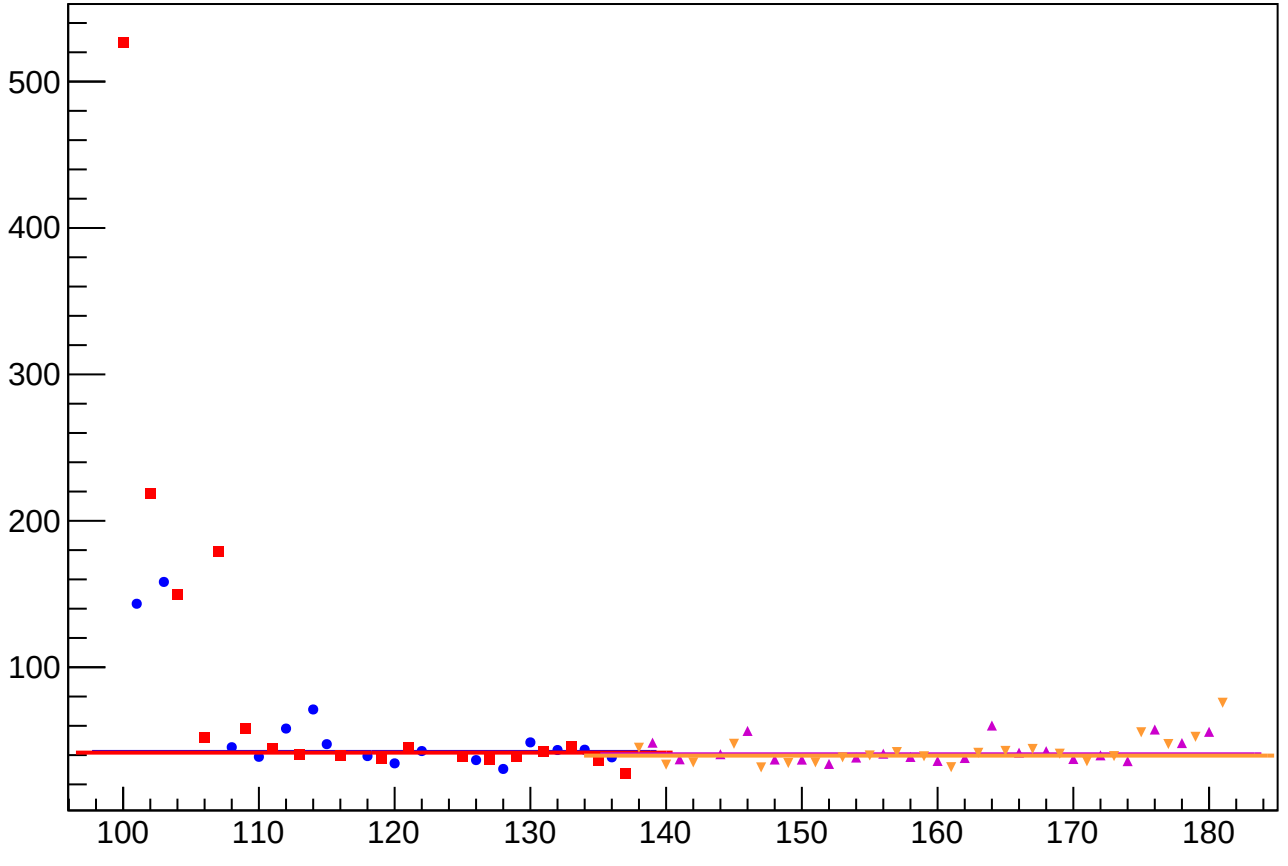
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.002+/-0.009 $\chi^2$/NDF:58.8/36

Out: 0.004+/-0.009 $\chi^2$/NDF:35.1/39

All: 0.001+/-0.006 $\chi^2$/NDF: 94.2/76

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.163+/-0.013 $\chi^2$/NDF: 1454592.8/15

Left Out: 39.653+/-0.007 $\chi^2$/NDF:968075.7/21

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441185.4/17

Left In: 40.556+/-0.008 $\chi^2$/NDF:693398.0/20

Left: 40.095+/-0.005 $\chi^2$/NDF: 1668773.6/42

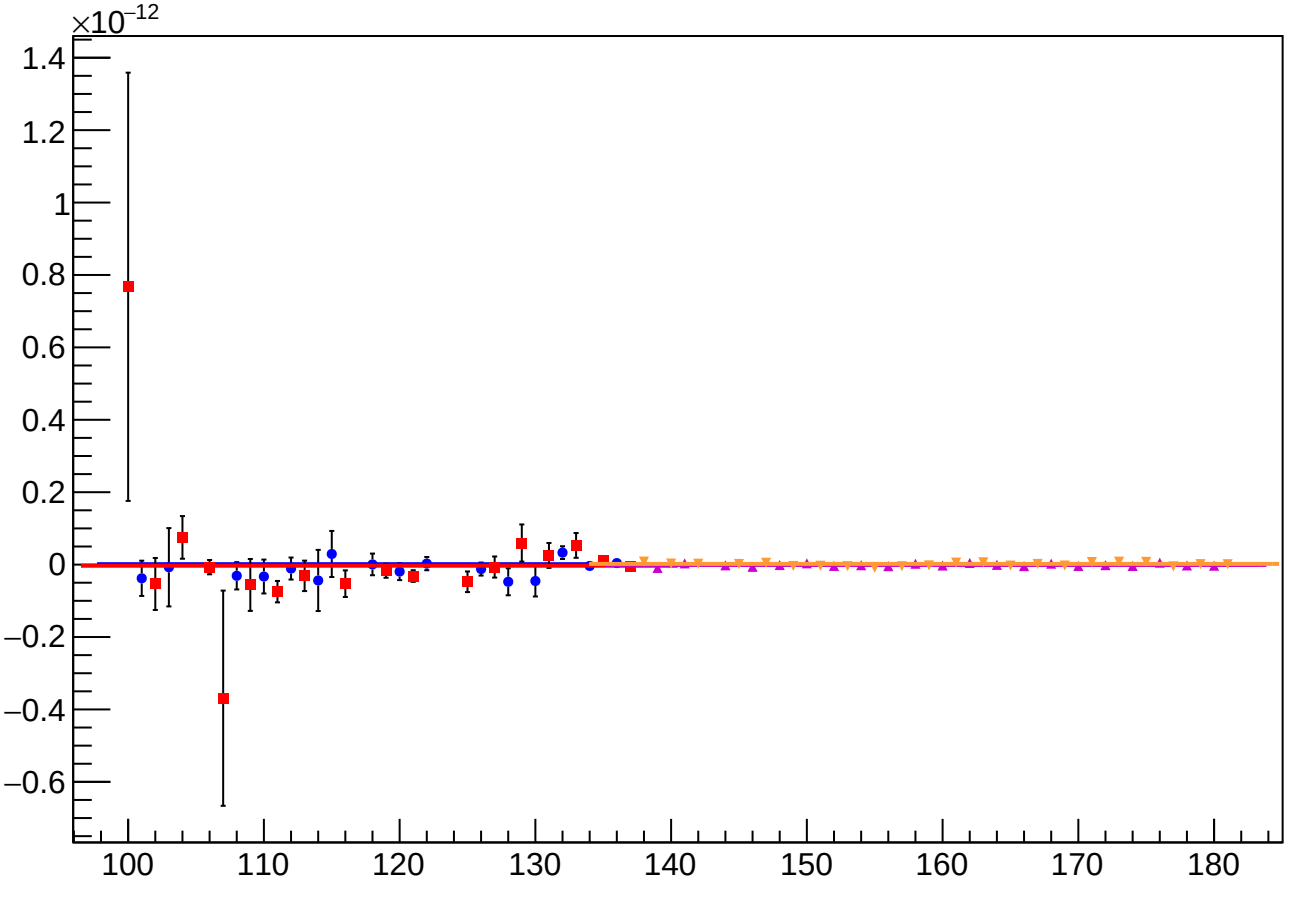
Right: 41.932+/-0.009 $\chi^2$/NDF: 2896430.8/33

In: 40.966+/-0.007 $\chi^2$/NDF:2159532.3/36

Out: 40.143+/-0.006 $\chi^2$/NDF:2427550.2/39

All: 40.549+/-0.005 $\chi^2$/NDF: 4595145.2/76

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.9/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.0/20

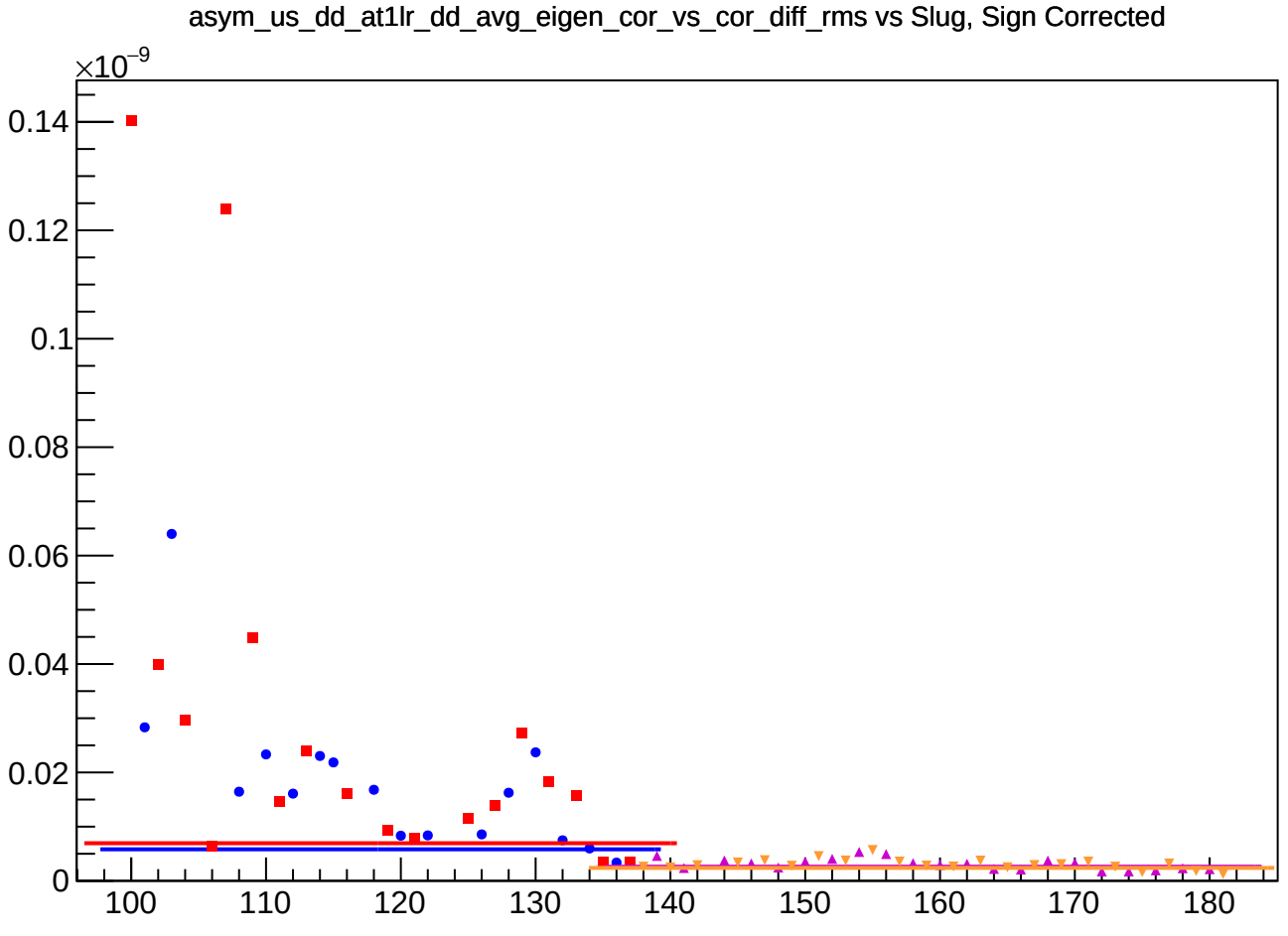
Left: 0.000+/-0.000 $\chi^2$/NDF: 45.7/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:25.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:54.8/39

All: 0.000+/-0.000 $\chi^2$/NDF: 85.7/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3296021.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2505087.5/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3789910.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1803784.8/20

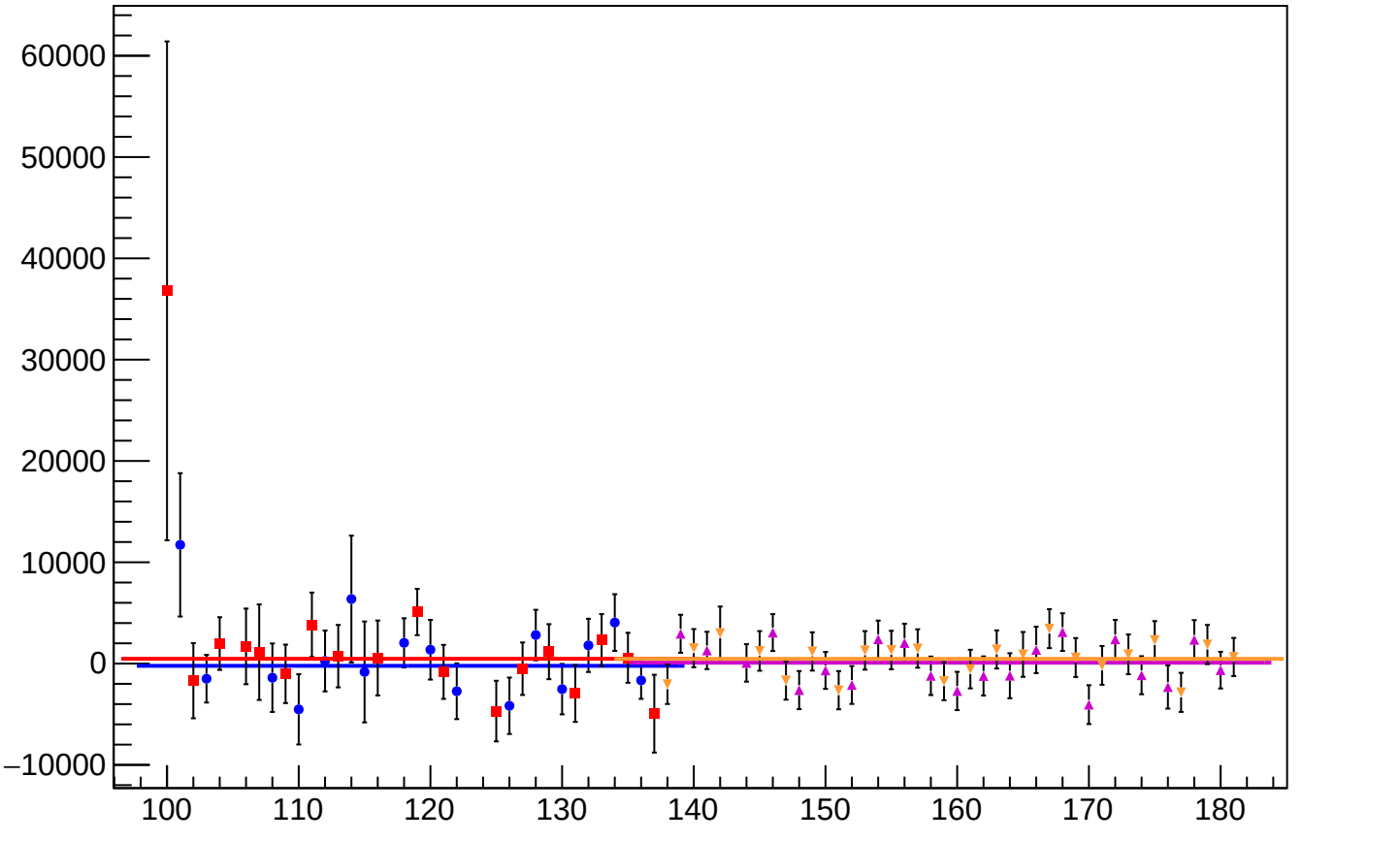
Left: 0.000+/-0.000 $\chi^2$/NDF: 4378672.9/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 7152698.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:6370306.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8085628.4/39

All: 0.000+/-0.000 $\chi^2$/NDF: 14543541.6/76




Right In: -222.980+/-709.150 $\chi^2$/NDF: 15.8/15

Left Out: 467.667+/-413.747 $\chi^2$/NDF:16.8/21

Right Out: 472.410+/-711.475 $\chi^2$/NDF: 15.9/17

Left In: 89.703+/-417.397 $\chi^2$/NDF:27.4/20

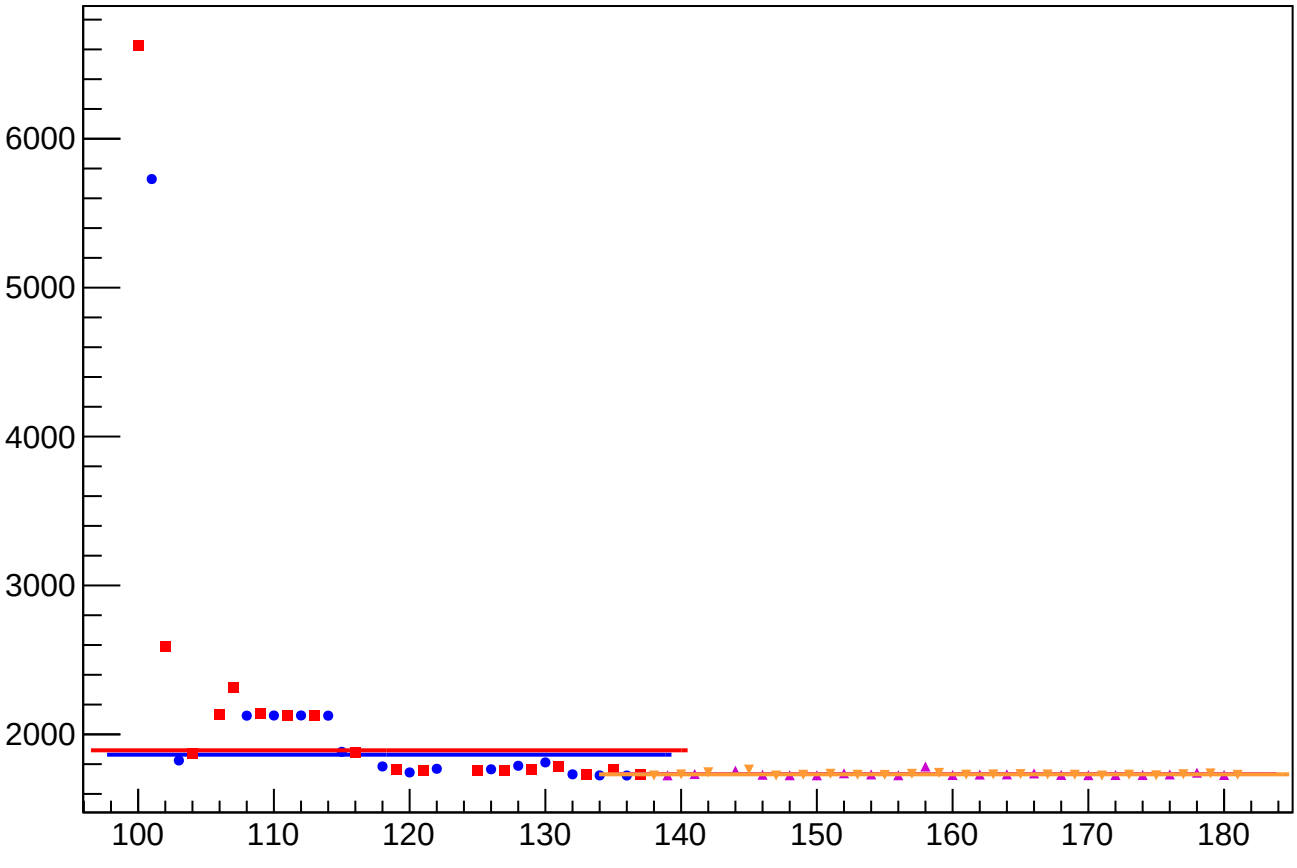
Left: 280.345+/-293.845 $\chi^2$/NDF: 44.6/42

Right: 123.577+/-502.265 $\chi^2$/NDF: 32.2/33

In: 9.250+/-359.713 $\chi^2$/NDF:43.4/36

Out: 468.865+/-357.666 $\chi^2$/NDF:32.7/39

All: 240.370+/-253.629 $\chi^2$/NDF: 76.9/76




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.6/15

Left Out: 1731.652+/-0.293 $\chi^2$/NDF:837.2/21

Right Out: 1892.866+/-0.503 $\chi^2$/NDF: 251512.9/17

Left In: 1733.816+/-0.295 $\chi^2$/NDF:2111.6/20

Left: 1732.725+/-0.208 $\chi^2$/NDF: 2975.9/42

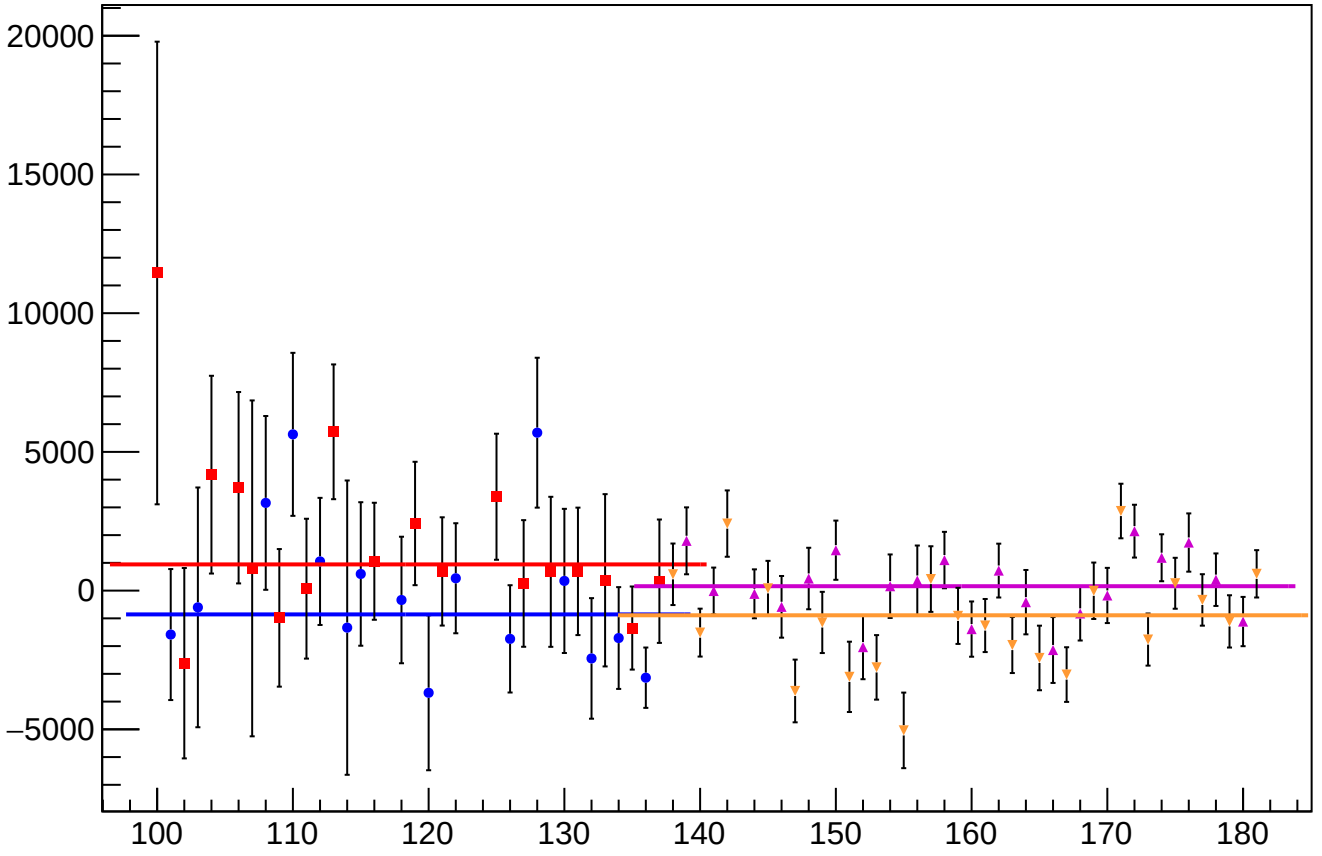
Right: 1878.175+/-0.355 $\chi^2$/NDF: 927878.2/33

In: 1767.204+/-0.254 $\chi^2$/NDF:726514.0/36

Out: 1772.394+/-0.253 $\chi^2$/NDF:329086.2/39

All: 1769.814+/-0.179 $\chi^2$/NDF: 1055809.5/76

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -857.294+/-549.791 $\chi^2$/NDF: 20.6/15

Left Out: -889.368+/-218.747 $\chi^2$/NDF:62.0/21

Right Out: 944.718+/-583.967 $\chi^2$/NDF: 12.9/17

Left In: 158.904+/-221.628 $\chi^2$/NDF:26.5/20

Left: -372.090+/-155.686 $\chi^2$/NDF: 99.8/42

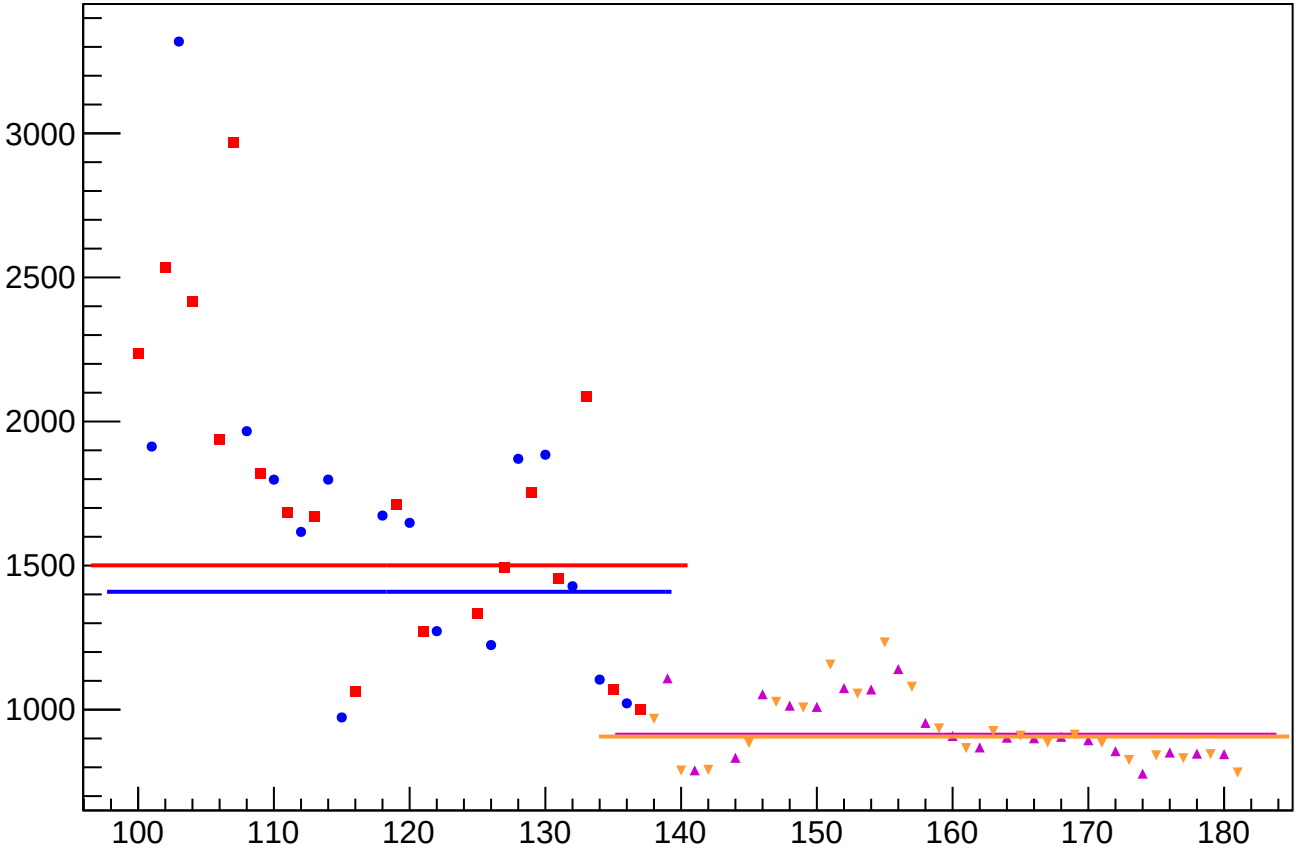
Right: -10.558+/-400.298 $\chi^2$/NDF: 38.6/33

In: 16.855+/-205.555 $\chi^2$/NDF:50.0/36

Out: -663.684+/-204.847 $\chi^2$/NDF:83.5/39

All: -324.589+/-145.098 $\chi^2$/NDF: 139.1/76

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 1409.096+/-0.389 $\chi^2$/NDF: 1167706.6/15

Left Out: 906.652+/-0.155 $\chi^2$/NDF:467631.8/21

Right Out: 1500.801+/-0.413 $\chi^2$/NDF: 1030768.2/17

Left In: 913.160+/-0.157 $\chi^2$/NDF:413805.1/20

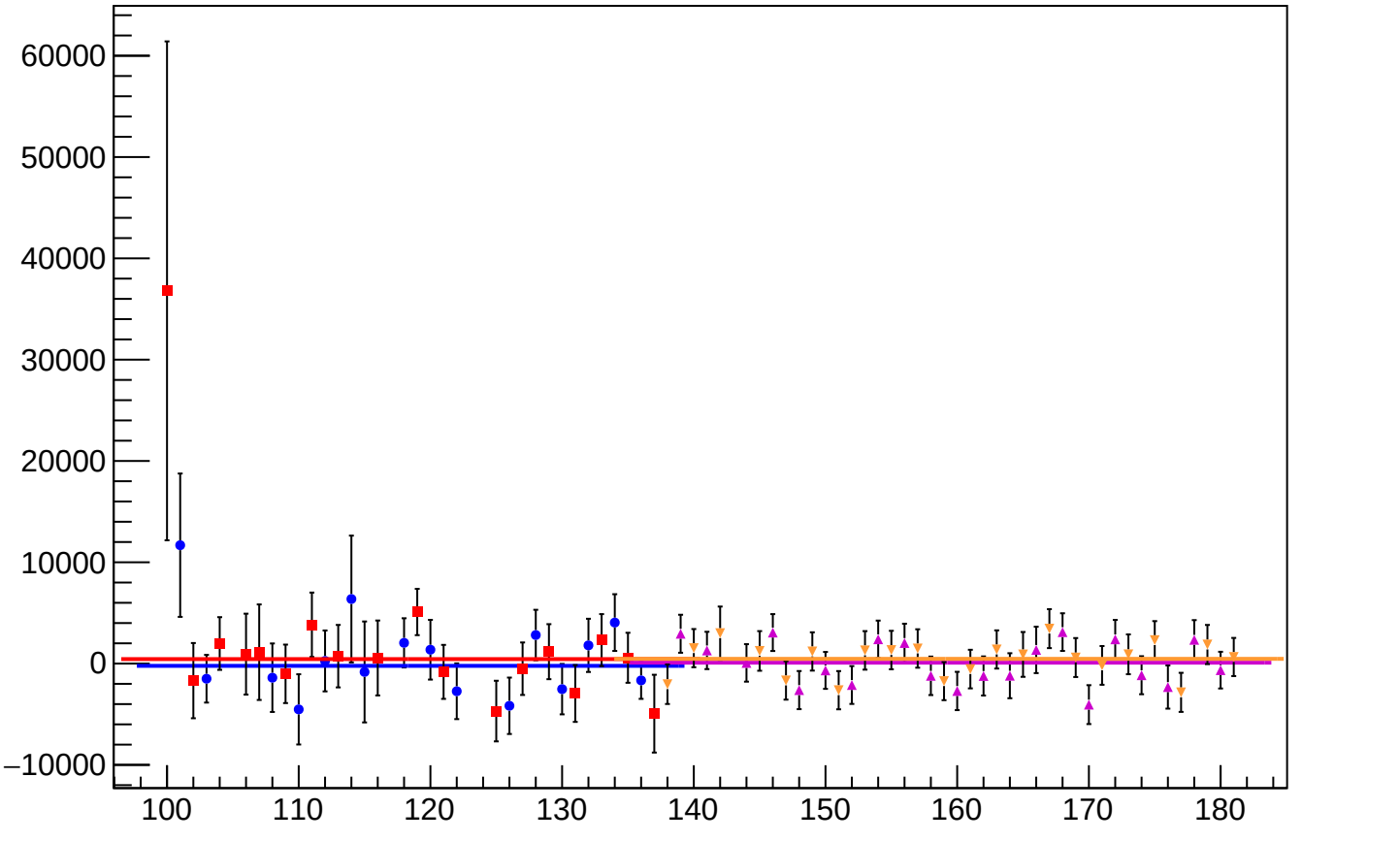
Left: 909.863+/-0.110 $\chi^2$/NDF: 882310.6/42

Right: 1452.187+/-0.283 $\chi^2$/NDF: 2224621.1/33

In: 982.484+/-0.145 $\chi^2$/NDF:2981397.4/36

Out: 979.762+/-0.145 $\chi^2$/NDF:3313994.9/39

All: 981.118+/-0.103 $\chi^2$/NDF: 6295568.3/76




Right In: -223.754+/-709.151 $\chi^2$/NDF: 15.8/15

Left Out: 467.712+/-413.747 $\chi^2$/NDF:16.8/21

Right Out: 443.022+/-713.098 $\chi^2$/NDF: 15.8/17

Left In: 89.714+/-417.397 $\chi^2$/NDF:27.4/20

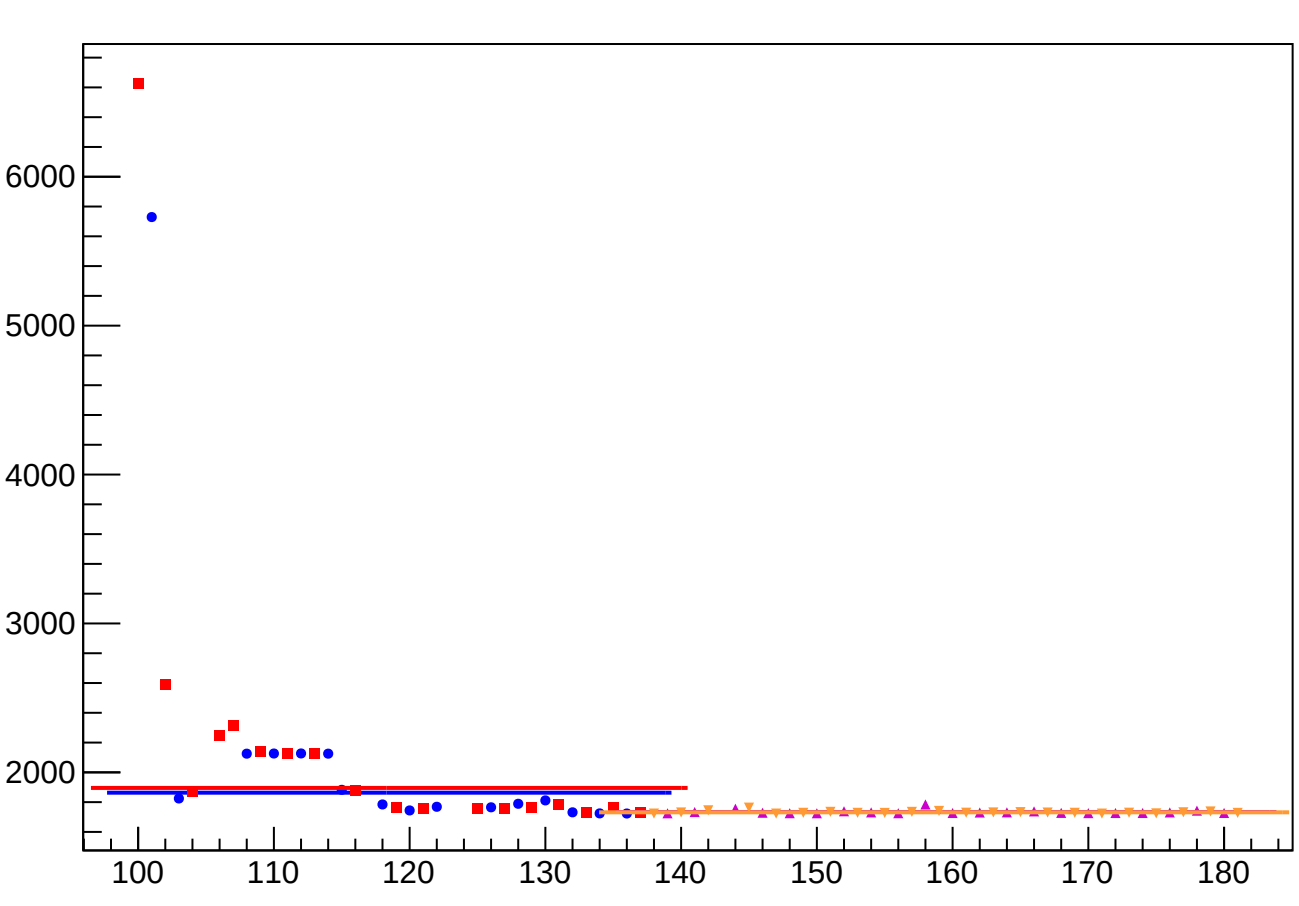
Left: 280.373+/-293.845 $\chi^2$/NDF: 44.6/42

Right: 107.783+/-502.835 $\chi^2$/NDF: 32.0/33

In: 9.059+/-359.713 $\chi^2$/NDF:43.3/36

Out: 461.494+/-357.871 $\chi^2$/NDF:32.6/39

All: 236.438+/-253.702 $\chi^2$/NDF: 76.7/76




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.4/15

Left Out: 1731.652+/-0.293 $\chi^2$/NDF:837.2/21

Right Out: 1895.491+/-0.504 $\chi^2$/NDF: 259171.7/17

Left In: 1733.816+/-0.295 $\chi^2$/NDF:2111.6/20

Left: 1732.725+/-0.208 $\chi^2$/NDF: 2975.9/42

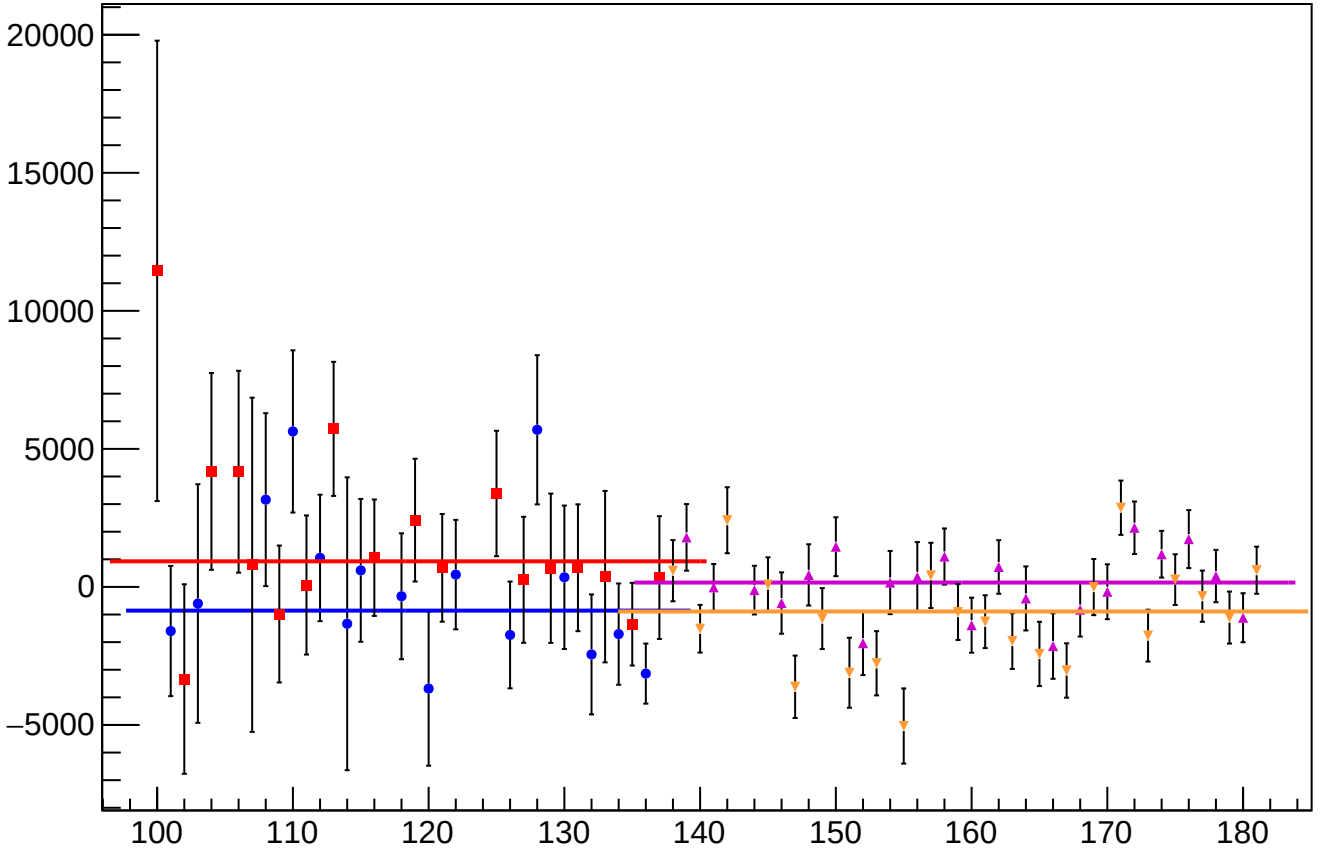
Right: 1879.447+/-0.356 $\chi^2$/NDF: 935850.8/33

In: 1767.204+/-0.254 $\chi^2$/NDF:726513.9/36

Out: 1772.916+/-0.253 $\chi^2$/NDF:338995.3/39

All: 1770.075+/-0.179 $\chi^2$/NDF: 1065762.6/76

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: -858.115+/-549.748 $\chi^2$/NDF: 20.6/15

Left Out: -889.357+/-218.747 $\chi^2$/NDF:62.0/21

Right Out: 927.191+/-584.886 $\chi^2$/NDF: 13.5/17

Left In: 158.886+/-221.627 $\chi^2$/NDF:26.5/20

Left: -372.090+/-155.686 $\chi^2$/NDF: 99.8/42

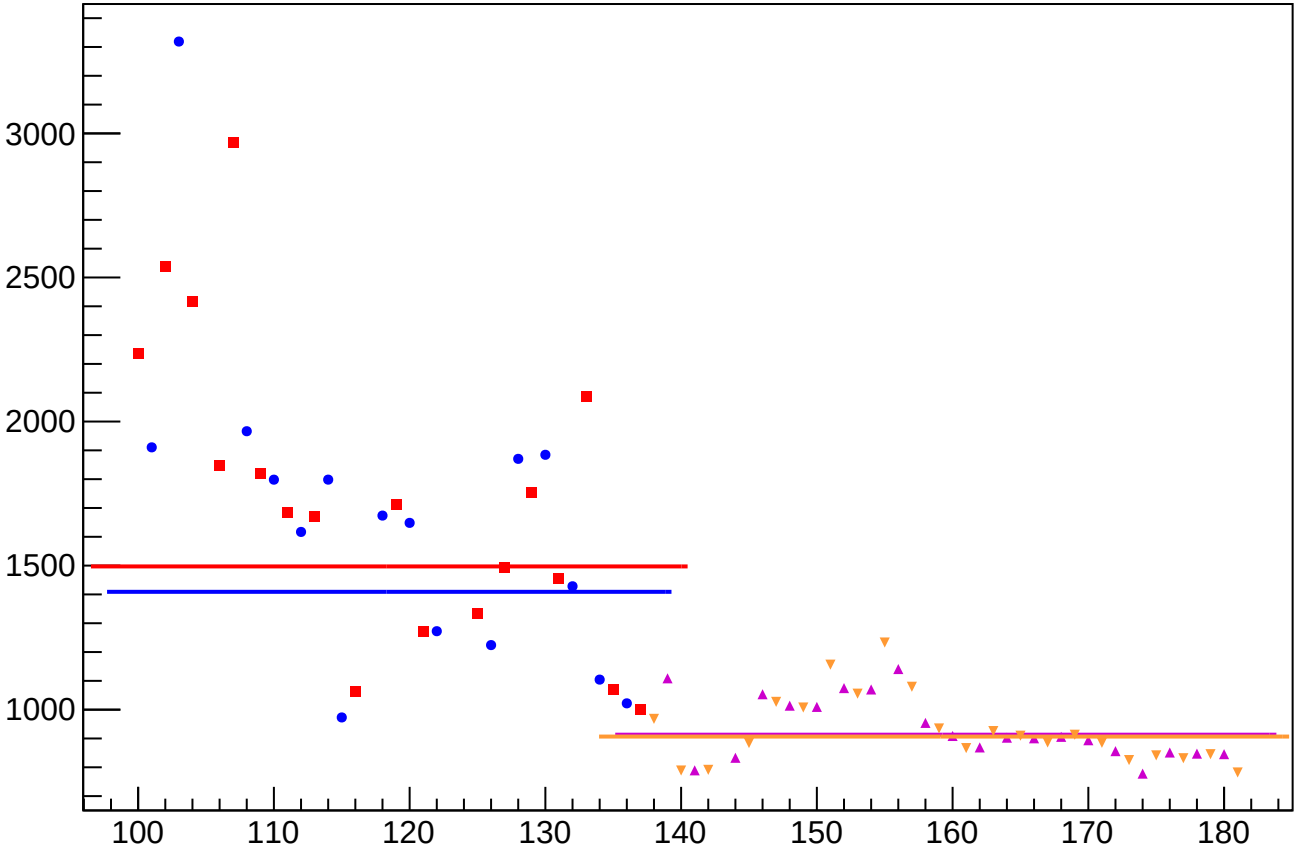
Right: -20.697+/-400.577 $\chi^2$/NDF: 39.1/33

In: 16.707+/-205.552 $\chi^2$/NDF:50.1/36

Out: -666.446+/-204.886 $\chi^2$/NDF:84.0/39

All: -325.977+/-145.111 $\chi^2$/NDF: 139.6/76

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 1409.018+/-0.389 $\chi^2$/NDF: 1167065.5/15

Left Out: 906.653+/-0.155 $\chi^2$/NDF:467587.3/21

Right Out: 1497.149+/-0.414 $\chi^2$/NDF: 1018123.6/17

Left In: 913.156+/-0.157 $\chi^2$/NDF:413820.8/20

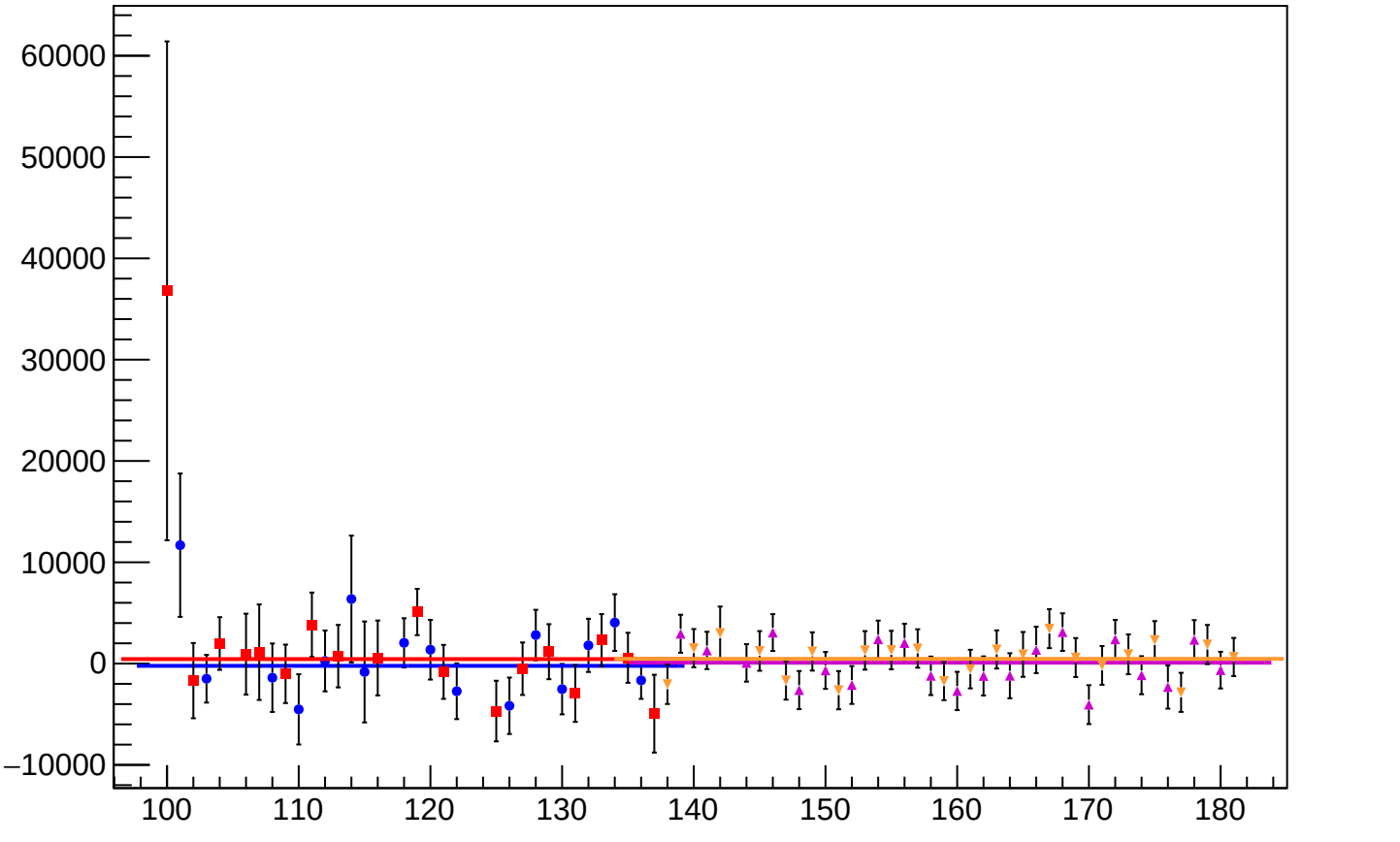
Left: 909.862+/-0.110 $\chi^2$/NDF: 882280.2/42

Right: 1450.357+/-0.283 $\chi^2$/NDF: 2209298.3/33

In: 982.479+/-0.145 $\chi^2$/NDF:2980547.5/36

Out: 979.114+/-0.145 $\chi^2$/NDF:3274102.4/39

All: 980.791+/-0.103 $\chi^2$/NDF: 6254918.8/76




Right In: -223.754+/-709.151 $\chi^2$/NDF: 15.8/15

Left Out: 467.712+/-413.747 $\chi^2$/NDF:16.8/21

Right Out: 443.022+/-713.098 $\chi^2$/NDF: 15.8/17

Left In: 89.714+/-417.397 $\chi^2$/NDF:27.4/20

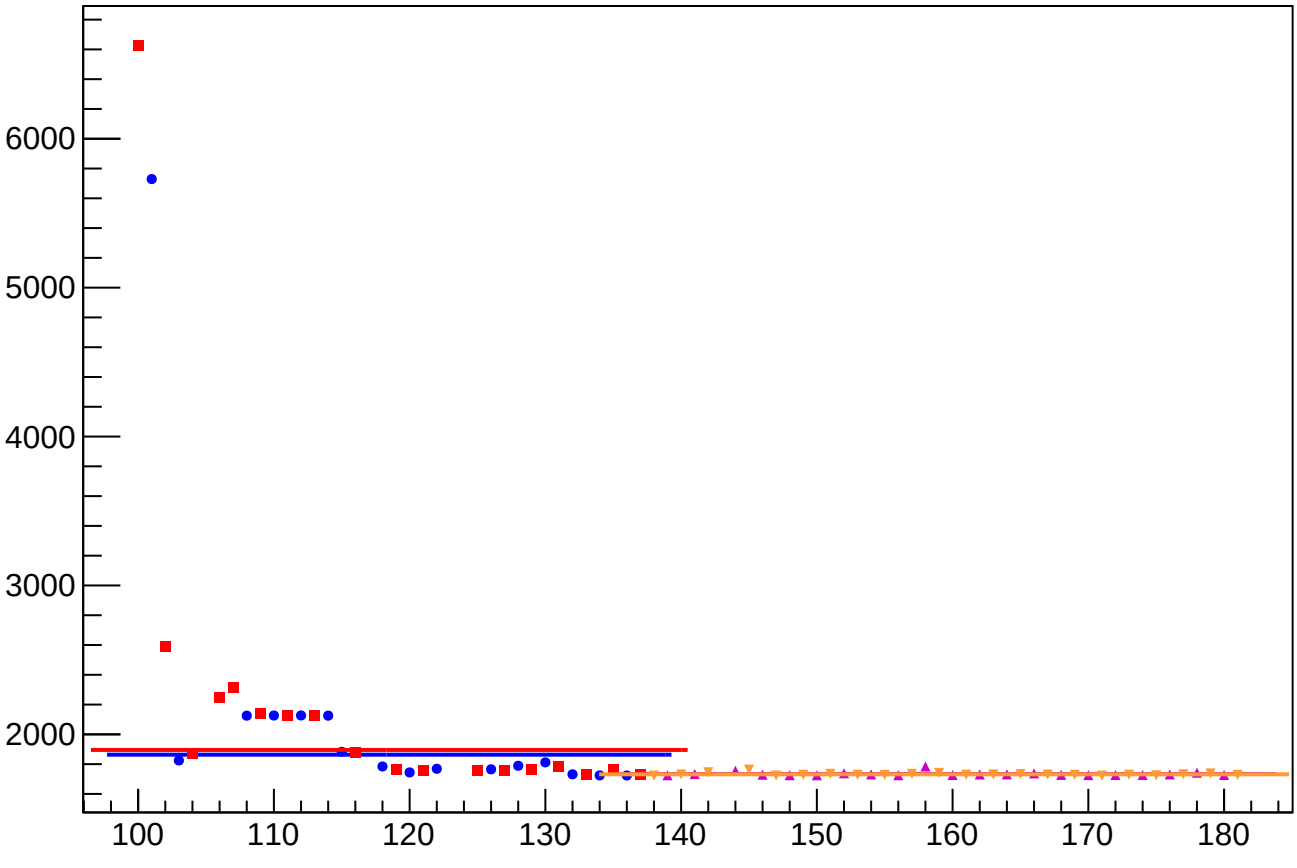
Left: 280.373+/-293.845 $\chi^2$/NDF: 44.6/42

Right: 107.783+/-502.835 $\chi^2$/NDF: 32.0/33

In: 9.059+/-359.713 $\chi^2$/NDF:43.3/36

Out: 461.494+/-357.871 $\chi^2$/NDF:32.6/39

All: 236.438+/-253.702 $\chi^2$/NDF: 76.7/76




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.4/15

Left Out: 1731.652+/-0.293 $\chi^2$/NDF:837.2/21

Right Out: 1895.491+/-0.504 $\chi^2$/NDF: 259171.7/17

Left In: 1733.816+/-0.295 $\chi^2$/NDF:2111.6/20

Left: 1732.725+/-0.208 $\chi^2$/NDF: 2975.9/42

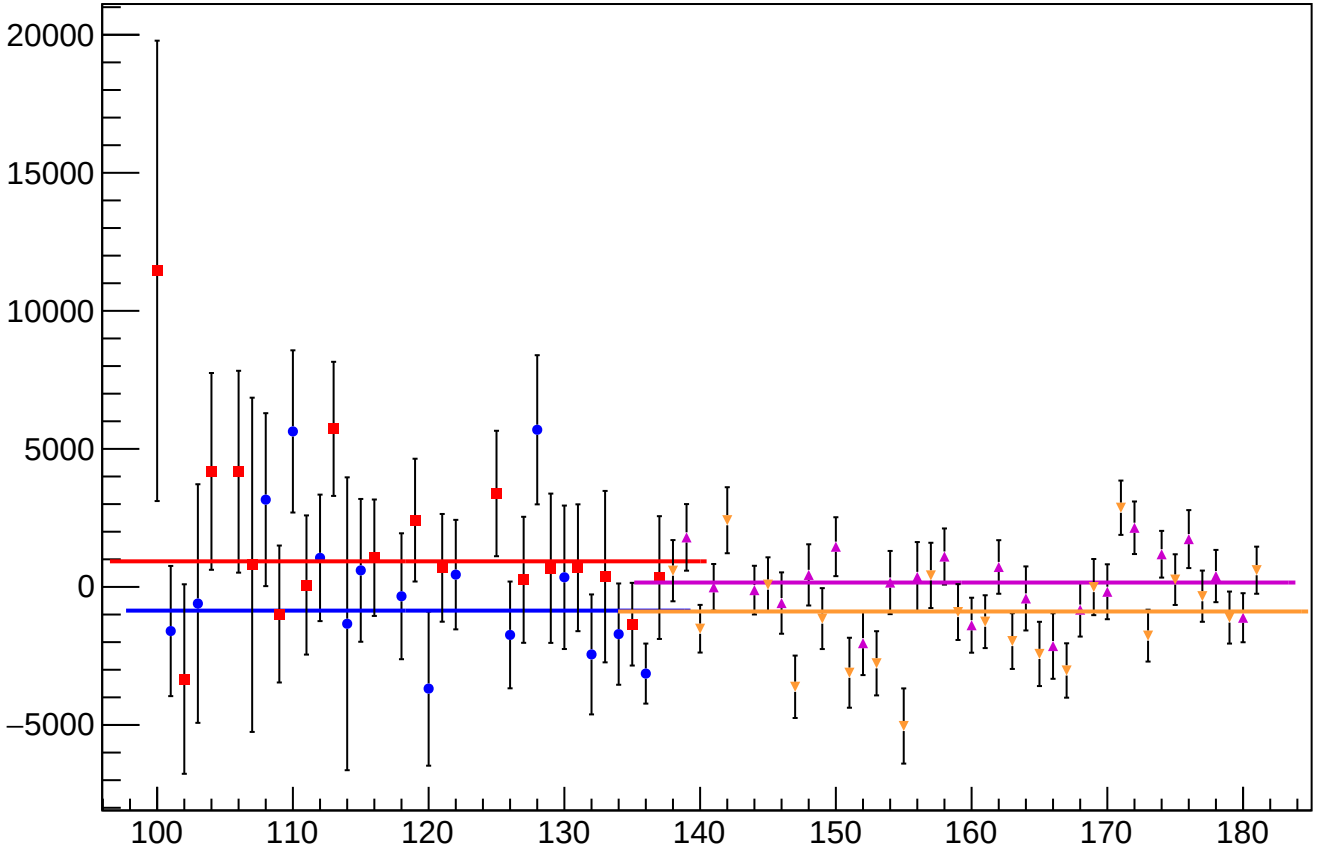
Right: 1879.447+/-0.356 $\chi^2$/NDF: 935850.8/33

In: 1767.204+/-0.254 $\chi^2$/NDF:726513.9/36

Out: 1772.916+/-0.253 $\chi^2$/NDF:338995.3/39

All: 1770.075+/-0.179 $\chi^2$/NDF: 1065762.6/76

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -858.115+/-549.748 $\chi^2$/NDF: 20.6/15

Left Out: -889.357+/-218.747 $\chi^2$/NDF:62.0/21

Right Out: 927.191+/-584.886 $\chi^2$/NDF: 13.5/17

Left In: 158.886+/-221.627 $\chi^2$/NDF:26.5/20

Left: -372.090+/-155.686 $\chi^2$/NDF: 99.8/42

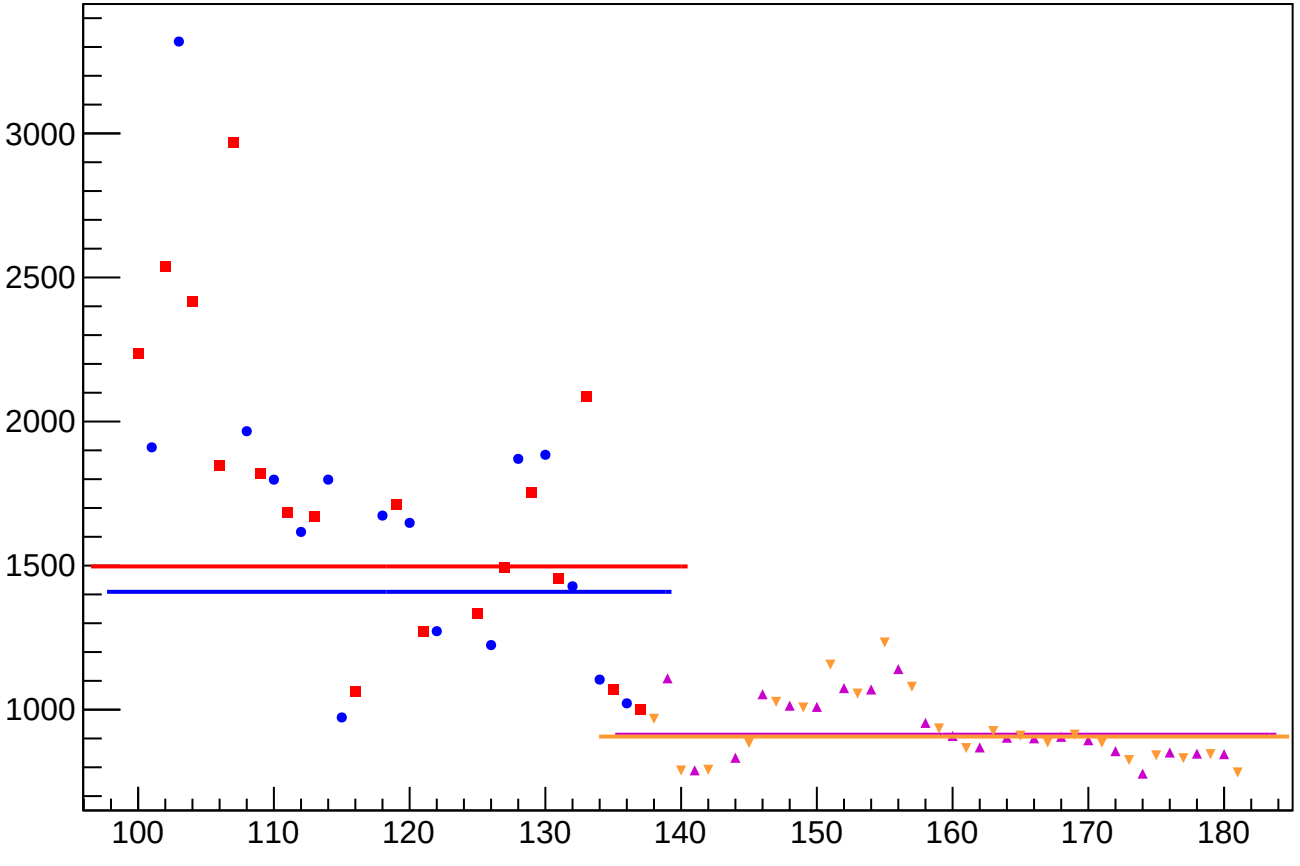
Right: -20.697+/-400.577 $\chi^2$/NDF: 39.1/33

In: 16.707+/-205.552 $\chi^2$/NDF:50.1/36

Out: -666.446+/-204.886 $\chi^2$/NDF:84.0/39

All: -325.977+/-145.111 $\chi^2$/NDF: 139.6/76

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1409.018+/-0.389 $\chi^2$/NDF: 1167065.5/15

Left Out: 906.653+/-0.155 $\chi^2$/NDF:467587.3/21

Right Out: 1497.149+/-0.414 $\chi^2$/NDF: 1018123.6/17

Left In: 913.156+/-0.157 $\chi^2$/NDF:413820.8/20

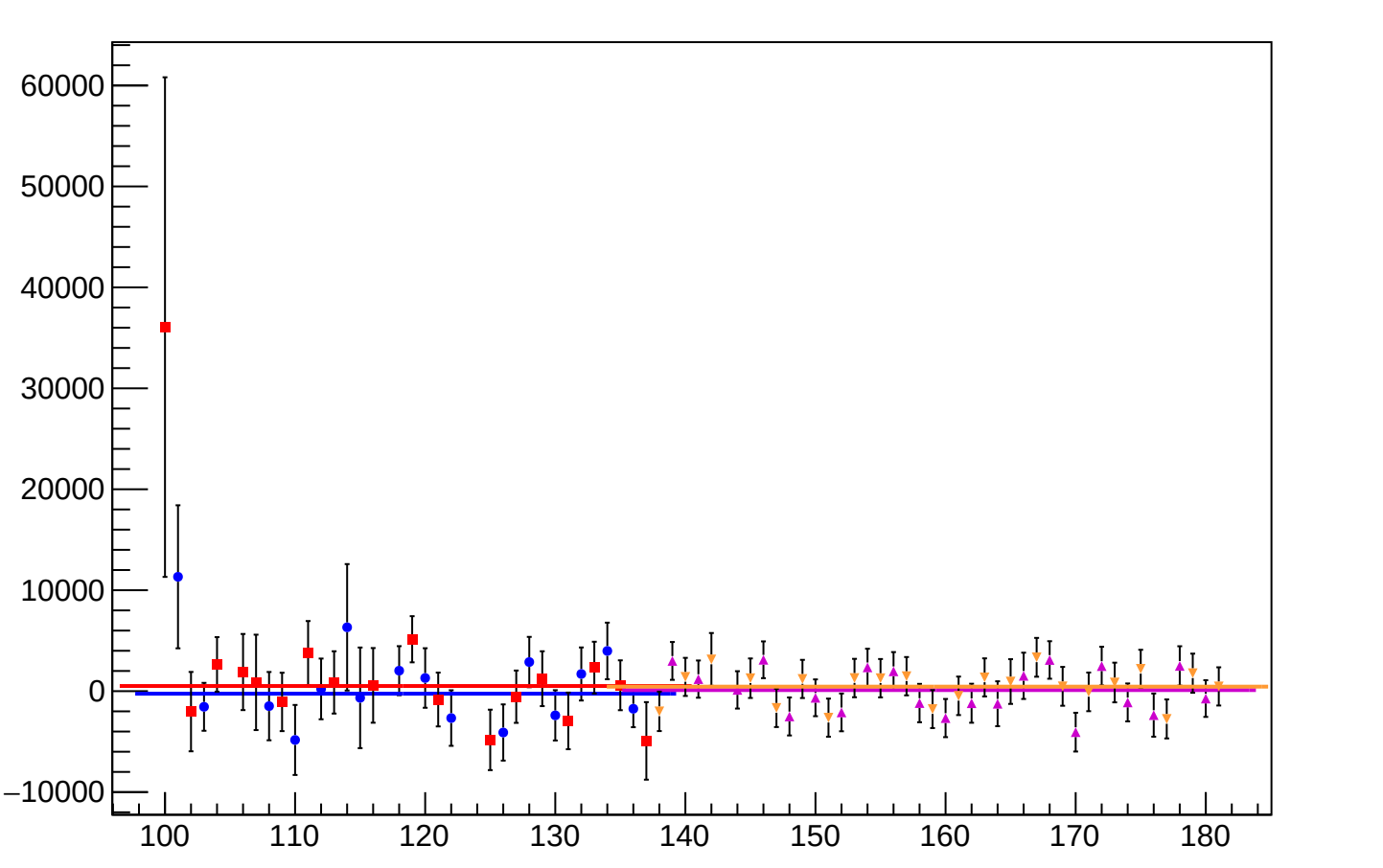
Left: 909.862+/-0.110 $\chi^2$/NDF: 882280.2/42

Right: 1450.357+/-0.283 $\chi^2$/NDF: 2209298.3/33

In: 982.479+/-0.145 $\chi^2$/NDF:2980547.5/36

Out: 979.114+/-0.145 $\chi^2$/NDF:3274102.4/39

All: 980.791+/-0.103 $\chi^2$/NDF: 6254918.8/76




Right In: -252.024+/-709.973 $\chi^2$/NDF: 15.6/15

Left Out: 447.823+/-414.117 $\chi^2$/NDF:16.2/21

Right Out: 510.117+/-715.442 $\chi^2$/NDF: 16.4/17

Left In: 107.773+/-417.758 $\chi^2$/NDF:27.5/20

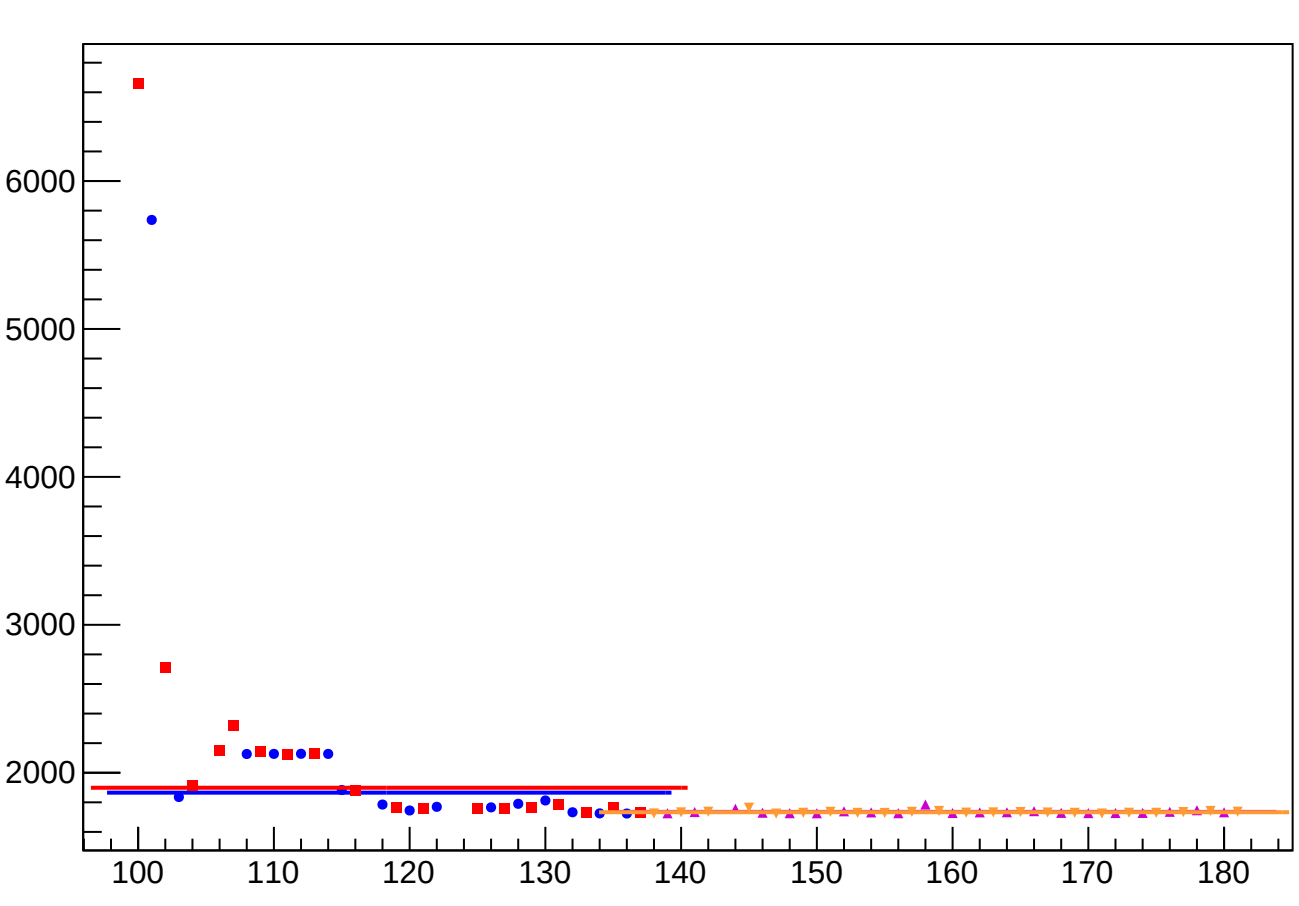
Left: 279.286+/-294.104 $\chi^2$/NDF: 44.1/42

Right: 126.122+/-503.949 $\chi^2$/NDF: 32.6/33

In: 15.239+/-360.052 $\chi^2$/NDF:43.3/36

Out: 463.457+/-358.407 $\chi^2$/NDF:32.6/39

All: 240.374+/-254.011 $\chi^2$/NDF: 76.8/76




Right In: 1865.440+/-0.502 $\chi^2$/NDF: 674989.6/15

Left Out: 1733.174+/-0.293 $\chi^2$/NDF:783.9/21

Right Out: 1898.603+/-0.506 $\chi^2$/NDF: 269110.1/17

Left In: 1735.315+/-0.295 $\chi^2$/NDF:2107.0/20

Left: 1734.235+/-0.208 $\chi^2$/NDF: 2917.3/42

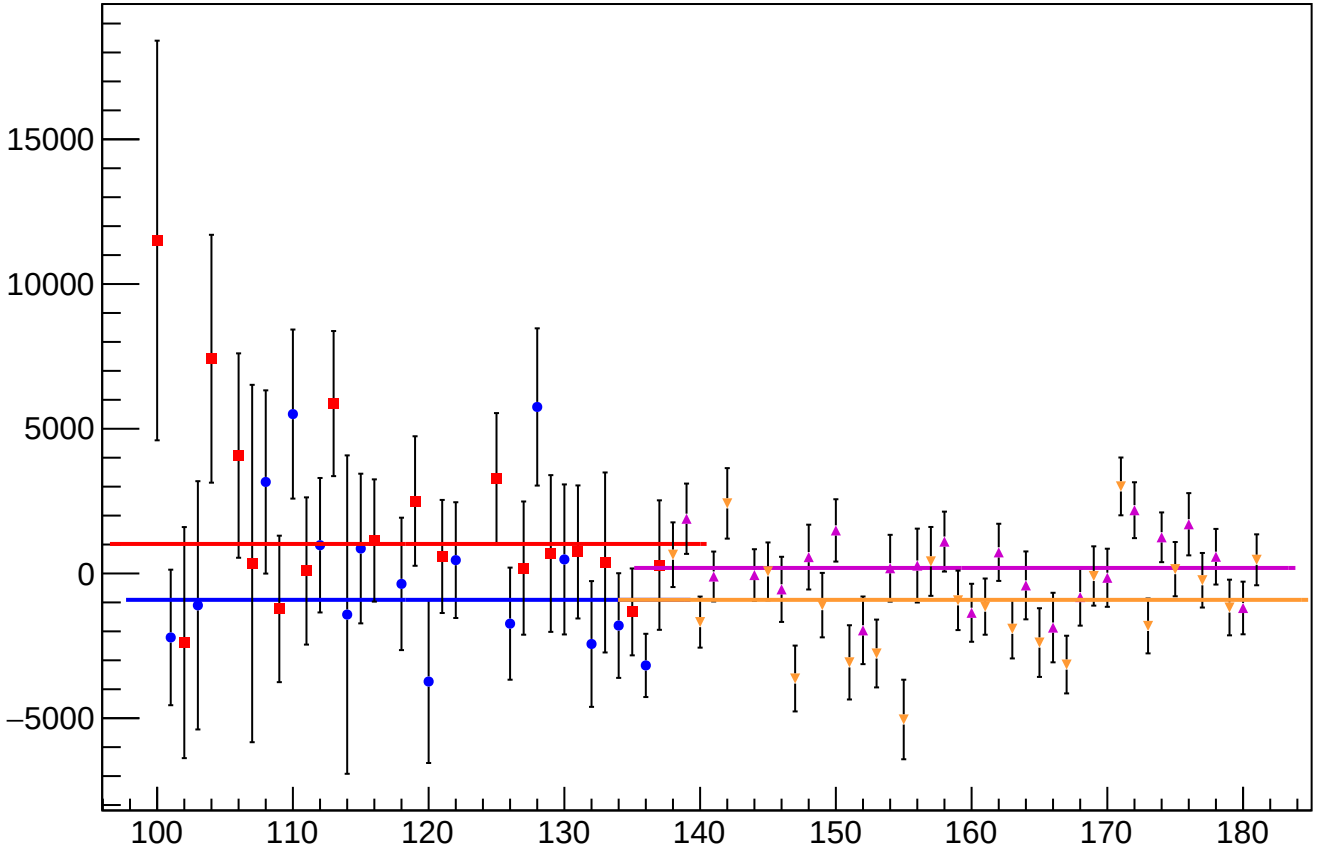
Right: 1881.894+/-0.356 $\chi^2$/NDF: 946264.8/33

In: 1768.781+/-0.255 $\chi^2$/NDF:727002.4/36

Out: 1774.690+/-0.253 $\chi^2$/NDF:349989.6/39

All: 1771.749+/-0.180 $\chi^2$/NDF: 1077262.6/76

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: -910.955+/-550.836 $\chi^2$/NDF: 21.0/15

Left Out: -911.420+/-221.978 $\chi^2$/NDF:61.4/21

Right Out: 1020.124+/-591.600 $\chi^2$/NDF: 14.9/17

Left In: 190.832+/-224.686 $\chi^2$/NDF:25.6/20

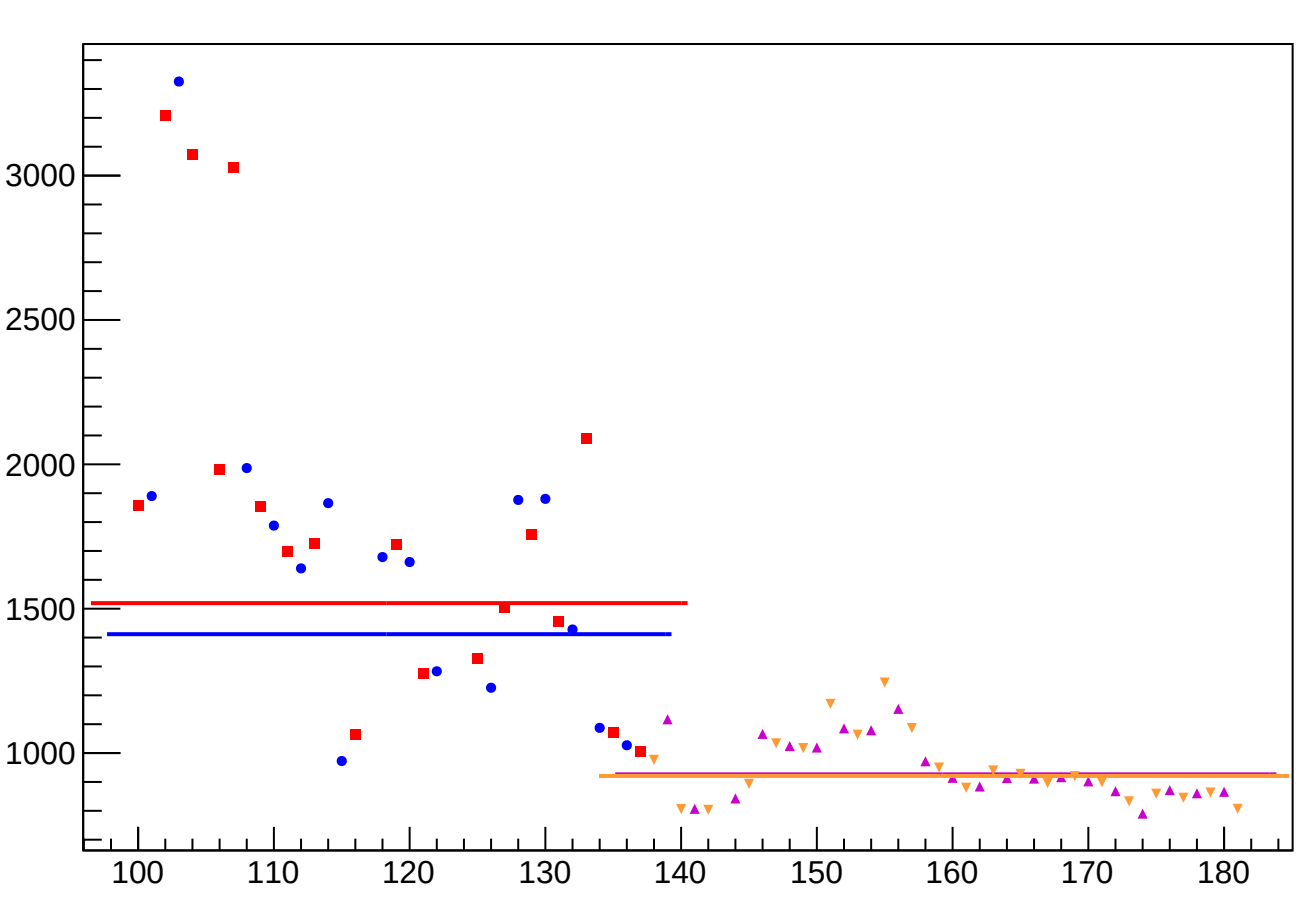
Left: -366.975+/-157.911 $\chi^2$/NDF: 99.2/42

Right: -14.232+/-403.141 $\chi^2$/NDF: 41.6/33

In: 33.664+/-208.044 $\chi^2$/NDF:50.0/36

Out: -673.043+/-207.830 $\chi^2$/NDF:85.7/39

All: -320.053+/-147.034 $\chi^2$/NDF: 141.5/76




Right In: 1411.748+/-0.389 $\chi^2$/NDF: 1177745.4/15

Left Out: 920.692+/-0.157 $\chi^2$/NDF:436170.0/21

Right Out: 1519.305+/-0.418 $\chi^2$/NDF: 1360145.6/17

Left In: 926.282+/-0.159 $\chi^2$/NDF:392123.0/20

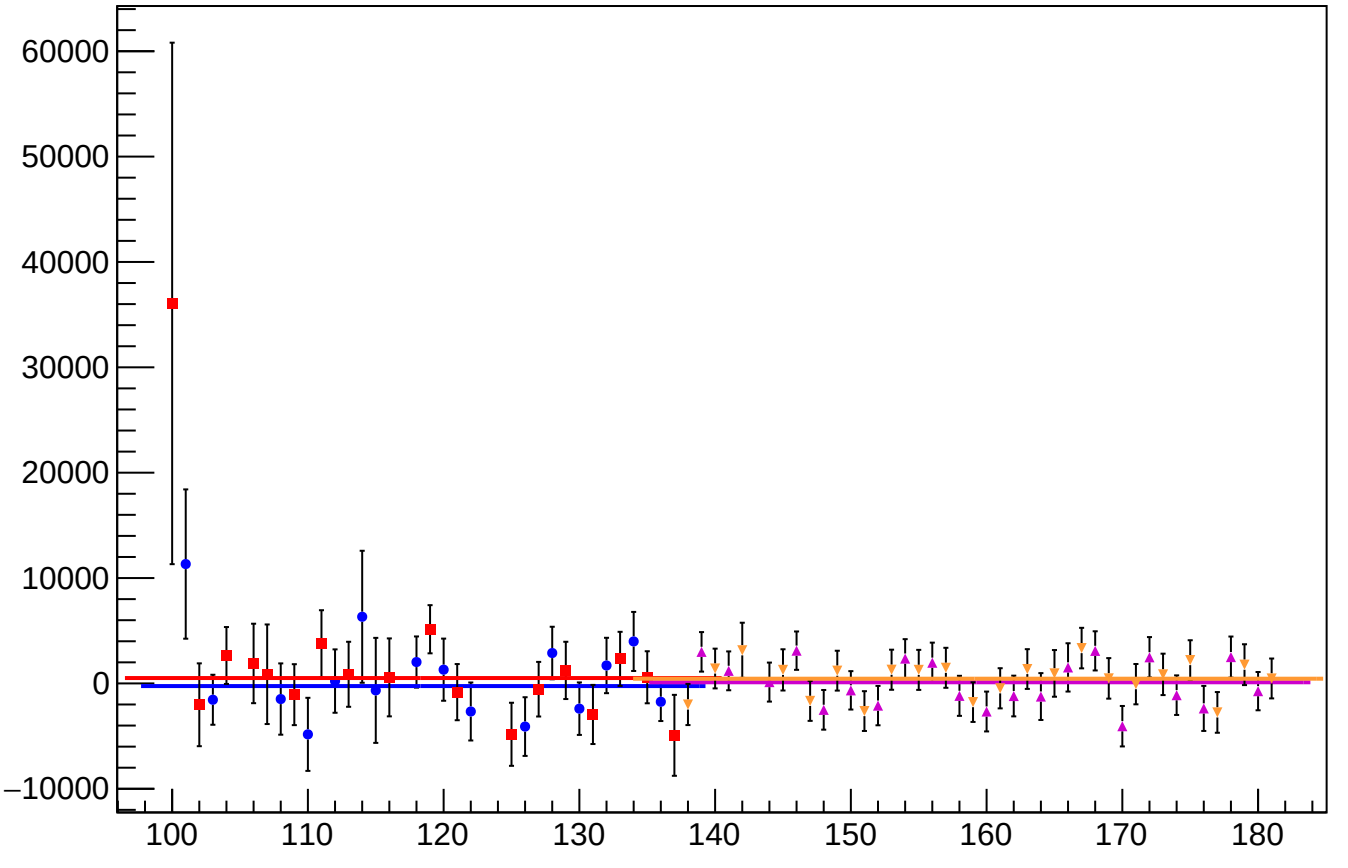
Left: 923.453+/-0.112 $\chi^2$/NDF: 828919.4/42

Right: 1461.694+/-0.285 $\chi^2$/NDF: 2573300.6/33

In: 995.533+/-0.147 $\chi^2$/NDF:2901740.0/36

Out: 994.569+/-0.147 $\chi^2$/NDF:3591301.7/39

All: 995.050+/-0.104 $\chi^2$/NDF: 6493063.2/76




Right In: -252.023+/-709.973 $\chi^2$/NDF: 15.6/15

Left Out: 447.823+/-414.117 $\chi^2$/NDF:16.2/21

Right Out: 510.117+/-715.442 $\chi^2$/NDF: 16.4/17

Left In: 107.773+/-417.758 $\chi^2$/NDF:27.5/20

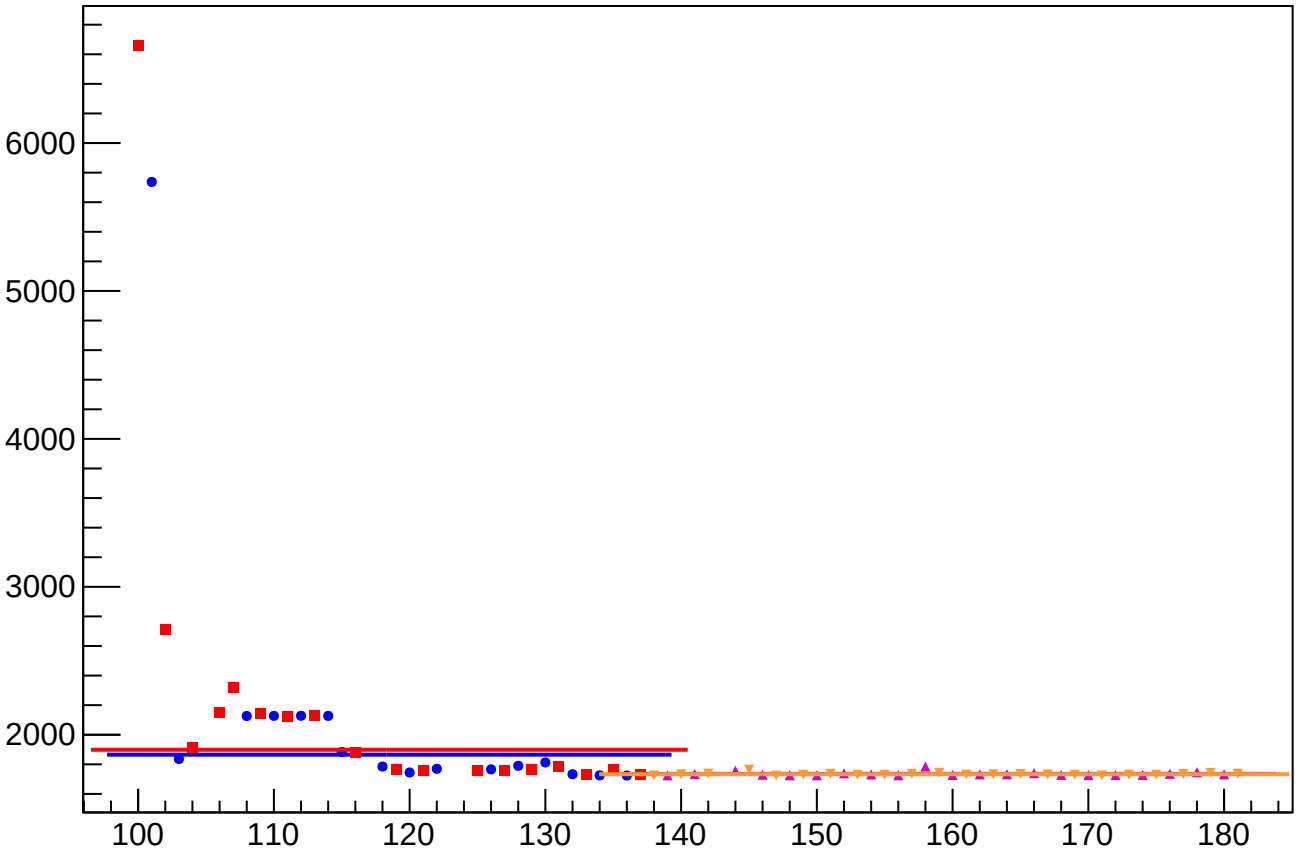
Left: 279.286+/-294.104 $\chi^2$/NDF: 44.1/42

Right: 126.122+/-503.949 $\chi^2$/NDF: 32.6/33

In: 15.239+/-360.052 $\chi^2$/NDF:43.3/36

Out: 463.456+/-358.407 $\chi^2$/NDF:32.6/39

All: 240.374+/-254.011 $\chi^2$/NDF: 76.8/76




Right In: 1865.440+/-0.502 $\chi^2$/NDF: 674989.6/15

Left Out: 1733.174+/-0.293 $\chi^2$/NDF:783.9/21

Right Out: 1898.603+/-0.506 $\chi^2$/NDF: 269109.9/17

Left In: 1735.315+/-0.295 $\chi^2$/NDF:2107.0/20

Left: 1734.235+/-0.208 $\chi^2$/NDF: 2917.3/42

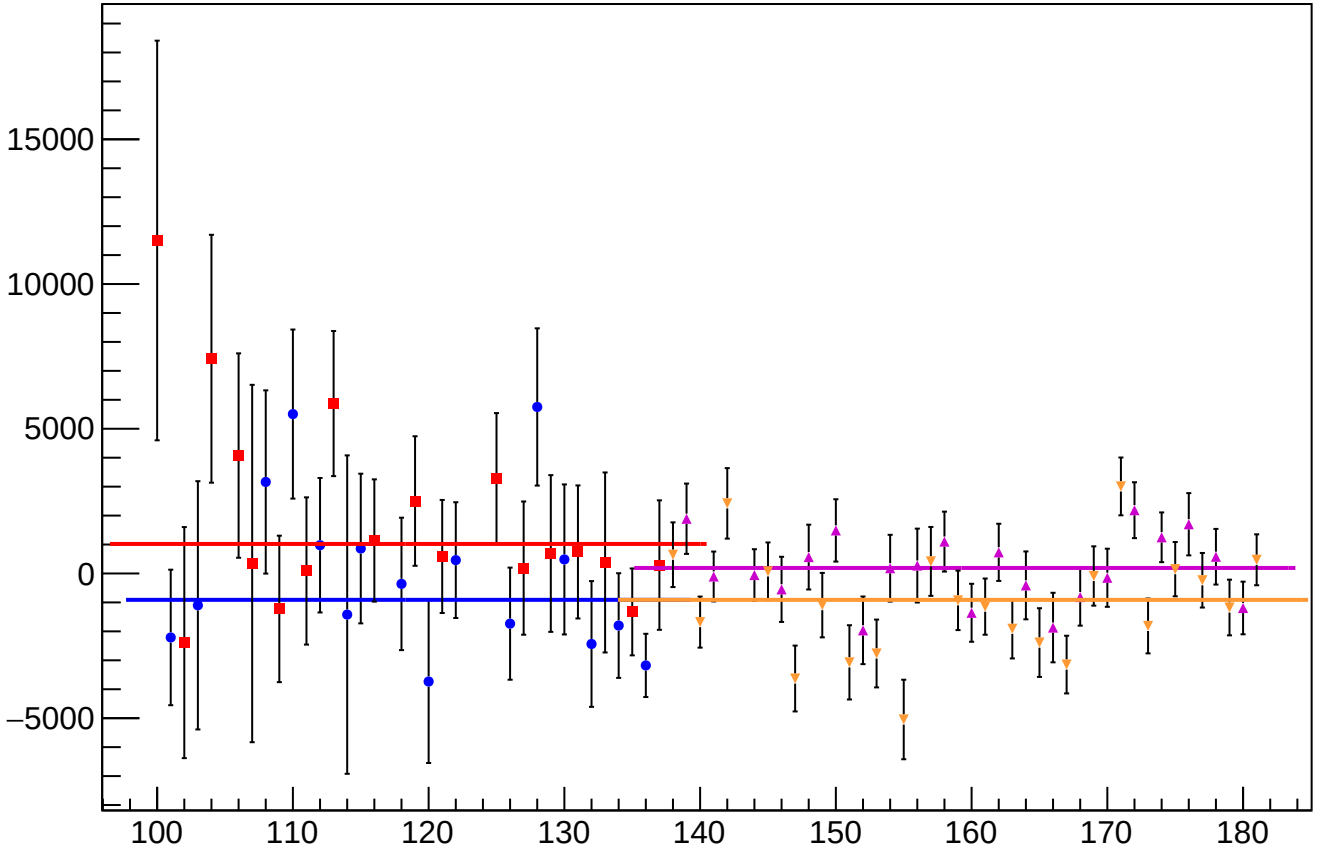
Right: 1881.894+/-0.356 $\chi^2$/NDF: 946264.6/33

In: 1768.781+/-0.255 $\chi^2$/NDF:727002.3/36

Out: 1774.690+/-0.253 $\chi^2$/NDF:349989.3/39

All: 1771.749+/-0.180 $\chi^2$/NDF: 1077262.3/76

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -910.950+/-550.835 $\chi^2$/NDF: 21.0/15

Left Out: -911.419+/-221.978 $\chi^2$/NDF:61.4/21

Right Out: 1020.123+/-591.599 $\chi^2$/NDF: 14.9/17

Left In: 190.830+/-224.686 $\chi^2$/NDF:25.6/20

Left: -366.975+/-157.911 $\chi^2$/NDF: 99.2/42

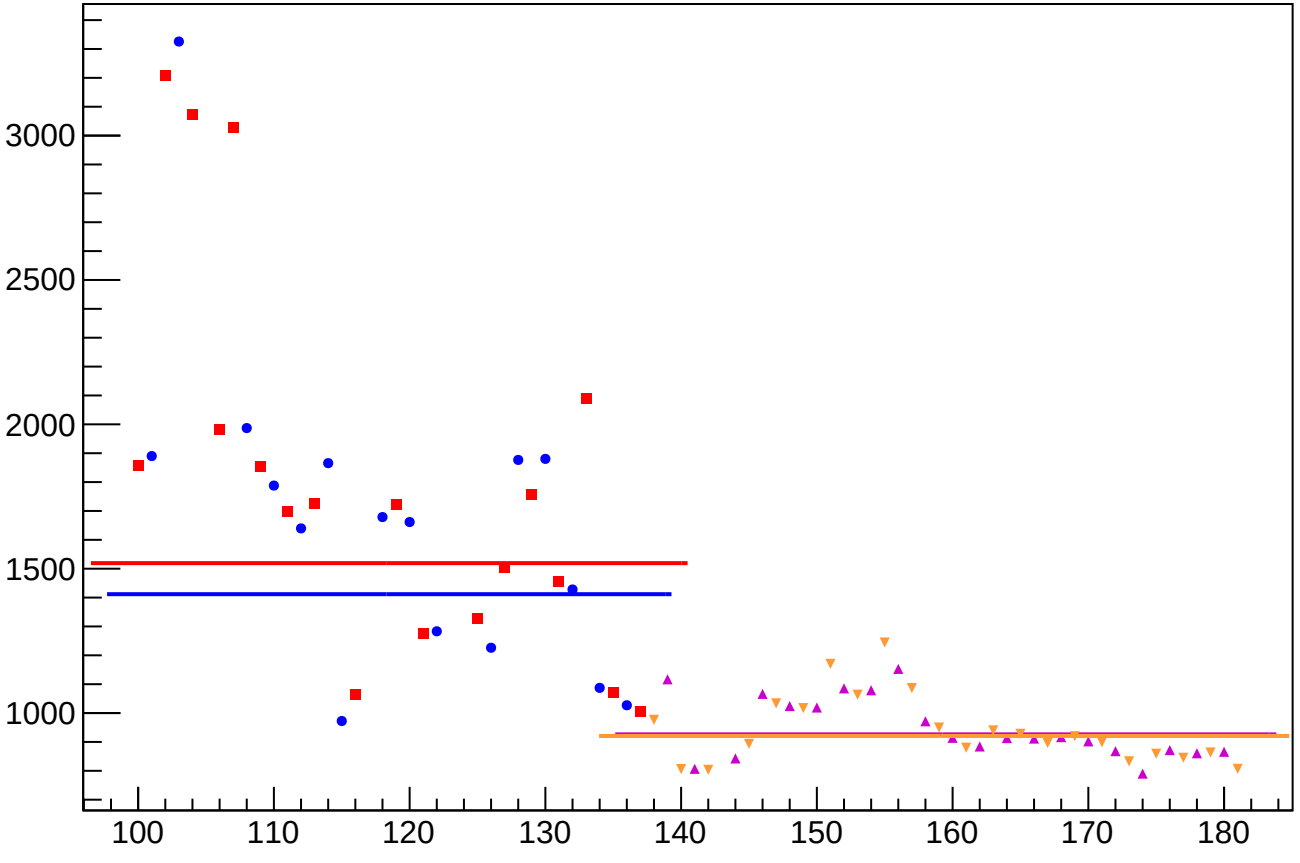
Right: -14.230+/-403.141 $\chi^2$/NDF: 41.6/33

In: 33.663+/-208.044 $\chi^2$/NDF:50.0/36

Out: -673.042+/-207.830 $\chi^2$/NDF:85.7/39

All: -320.053+/-147.034 $\chi^2$/NDF: 141.5/76

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1411.745+/-0.389 $\chi^2$/NDF: 1177746.1/15

Left Out: 920.692+/-0.157 $\chi^2$/NDF:436177.4/21

Right Out: 1519.302+/-0.418 $\chi^2$/NDF: 1360150.0/17

Left In: 926.282+/-0.159 $\chi^2$/NDF:392131.6/20

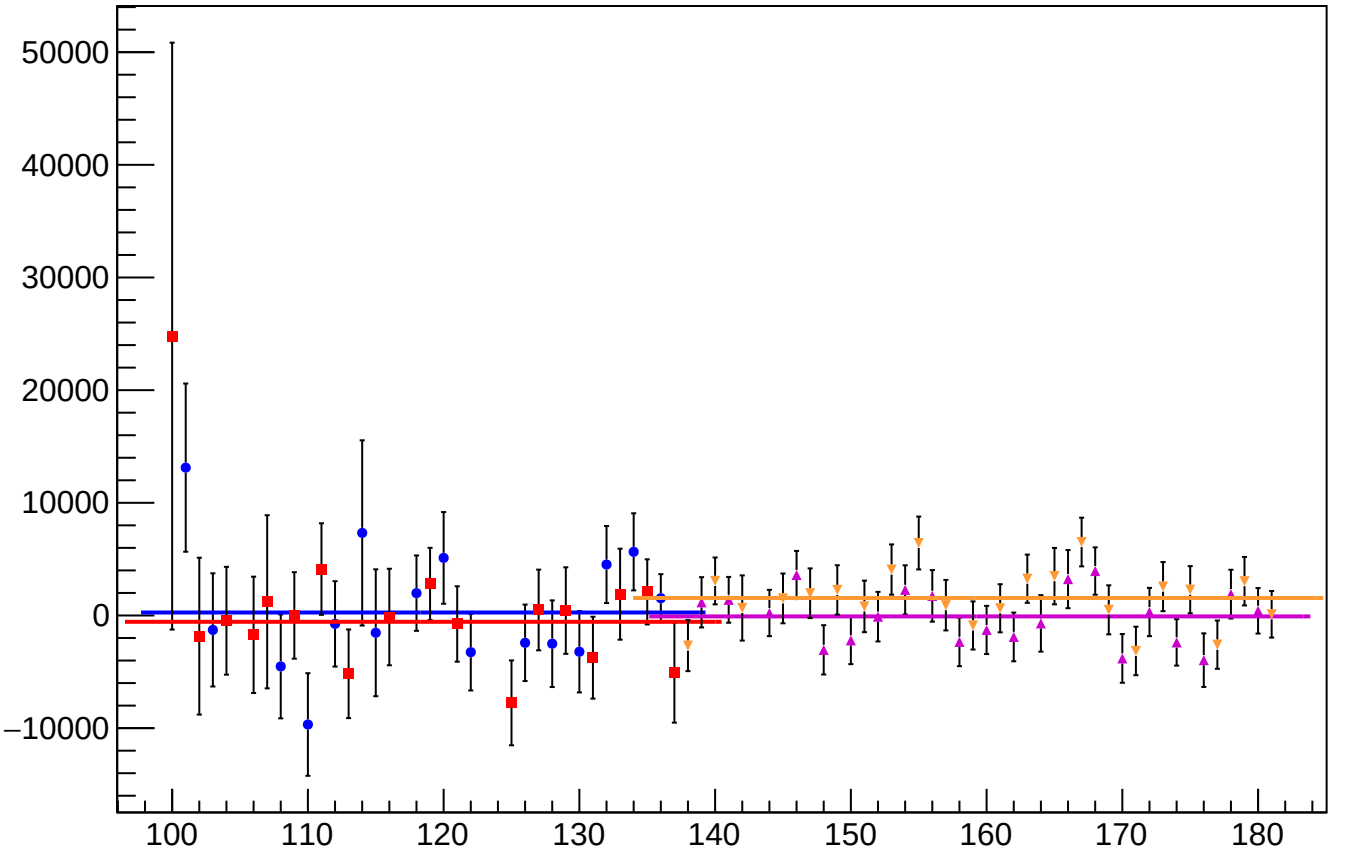
Left: 923.453+/-0.112 $\chi^2$/NDF: 828935.4/42

Right: 1461.691+/-0.285 $\chi^2$/NDF: 2573306.2/33

In: 995.532+/-0.147 $\chi^2$/NDF:2901737.7/36

Out: 994.568+/-0.147 $\chi^2$/NDF:3591303.6/39

All: 995.050+/-0.104 $\chi^2$/NDF: 6493062.8/76




Right In: 264.383+/-941.979 $\chi^2$/NDF: 19.0/15

Left Out: 1553.468+/-471.386 $\chi^2$/NDF:28.1/21

Right Out: -560.962+/-962.943 $\chi^2$/NDF: 11.7/17

Left In: -82.383+/-475.366 $\chi^2$/NDF:23.8/20

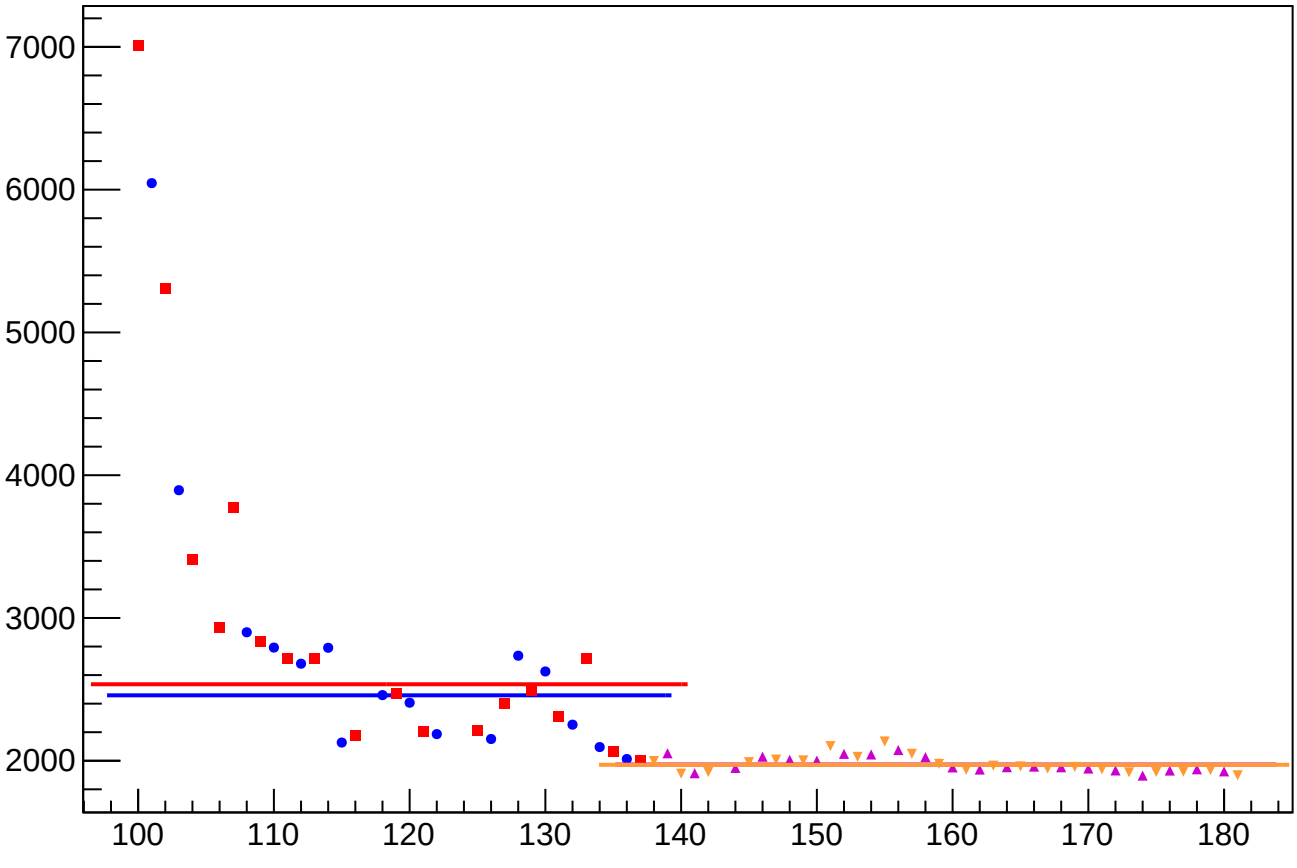
Left: 742.420+/-334.719 $\chi^2$/NDF: 57.9/42

Right: -139.208+/-673.369 $\chi^2$/NDF: 31.2/33

In: -11.998+/-424.389 $\chi^2$/NDF:42.9/36

Out: 1144.725+/-423.379 $\chi^2$/NDF:43.7/39

All: 567.741+/-299.731 $\chi^2$/NDF: 90.4/76




Right In: 2458.332+/-0.666 $\chi^2$/NDF: 832888.7/15

Left Out: 1971.715+/-0.333 $\chi^2$/NDF:31467.2/21

Right Out: 2535.782+/-0.681 $\chi^2$/NDF: 673337.1/17

Left In: 1973.783+/-0.336 $\chi^2$/NDF:23379.8/20

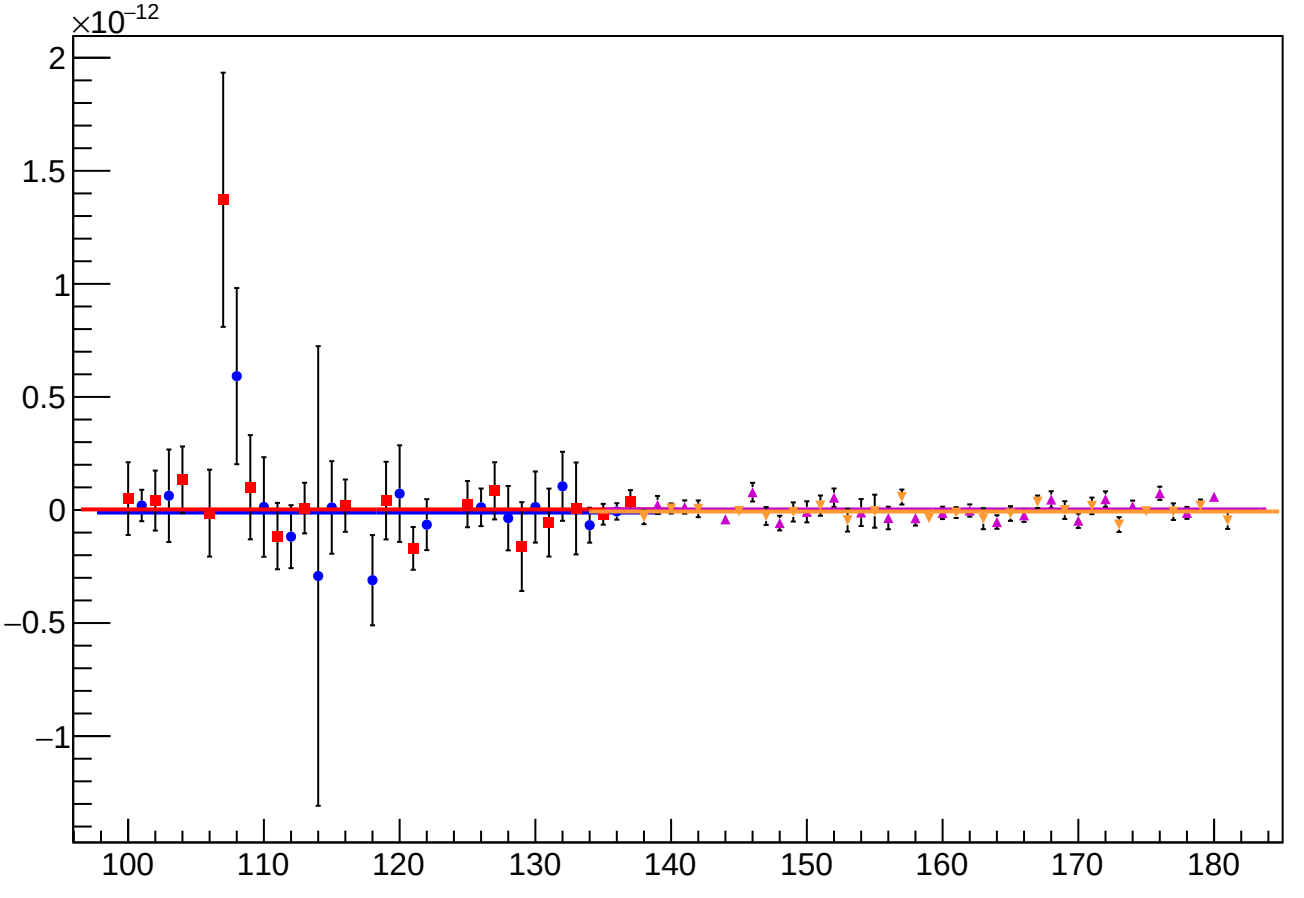
Left: 1972.740+/-0.237 $\chi^2$/NDF: 54866.1/42

Right: 2496.205+/-0.476 $\chi^2$/NDF: 1512837.3/33

In: 2072.135+/-0.300 $\chi^2$/NDF:1278056.0/36

Out: 2080.756+/-0.299 $\chi^2$/NDF:1258408.6/39

All: 2076.456+/-0.212 $\chi^2$/NDF: 2536878.2/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 7.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.2/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:38.9/20

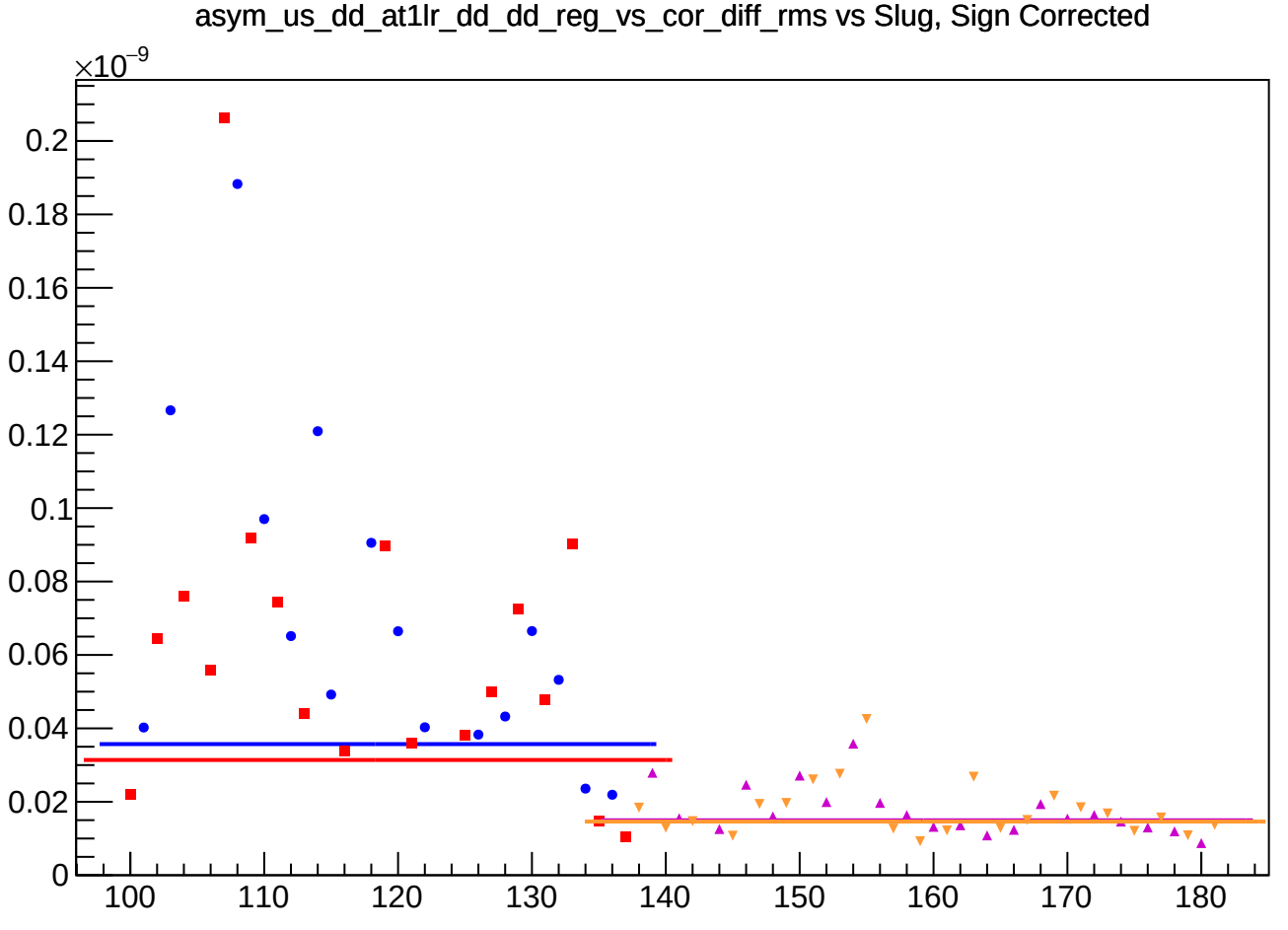
Left: -0.000+/-0.000 $\chi^2$/NDF: 56.0/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 20.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:46.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:29.6/39

All: -0.000+/-0.000 $\chi^2$/NDF: 76.7/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1620217.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1173619.5/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2068272.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1086501.1/20

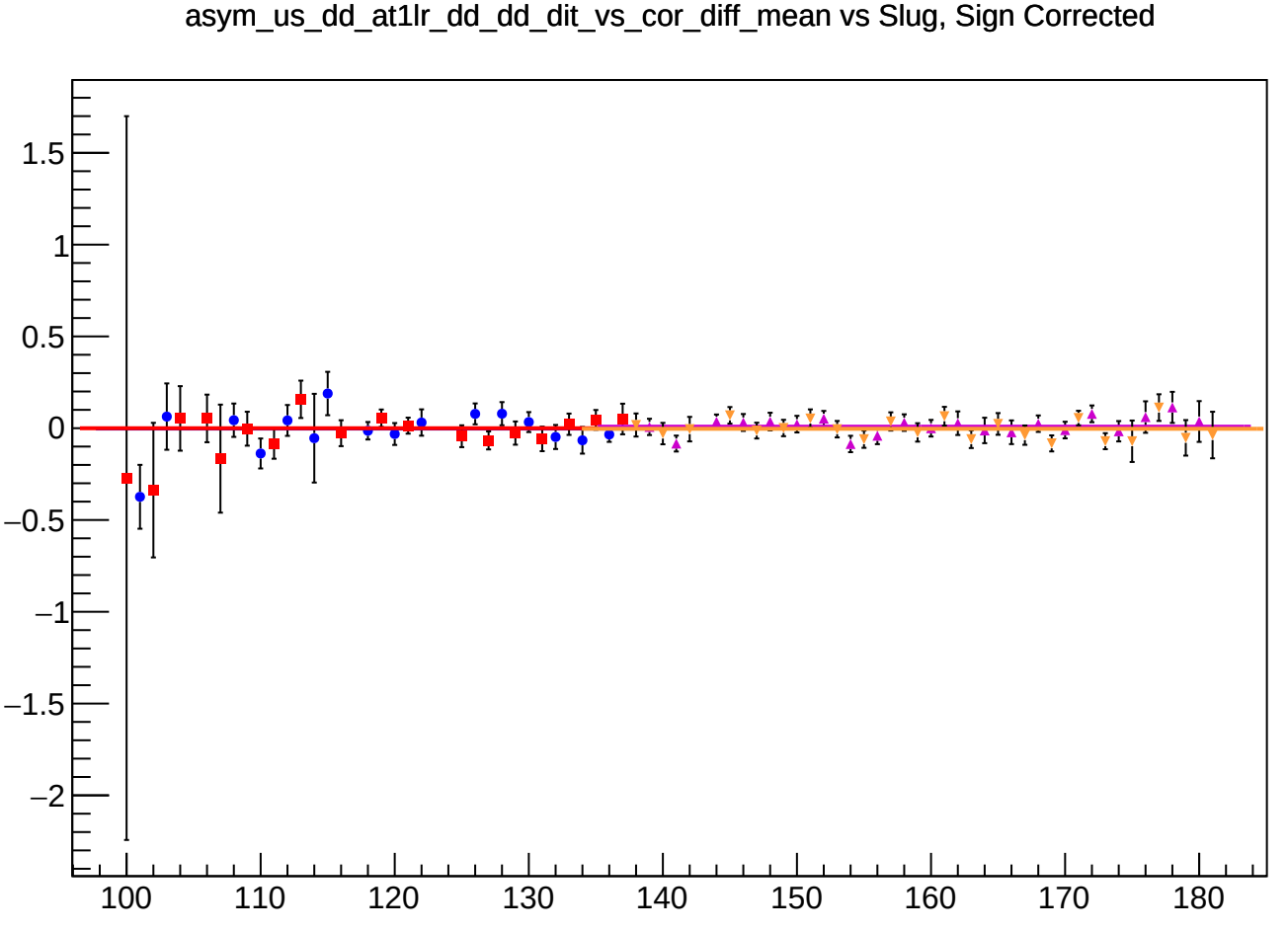
Left: 0.000+/-0.000 $\chi^2$/NDF: 2262880.0/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 3719751.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:4036747.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4125091.2/39

All: 0.000+/-0.000 $\chi^2$/NDF: 8172520.7/76




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: -0.003+/-0.011 $\chi^2$/NDF:21.4/21

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: 0.008+/-0.011 $\chi^2$/NDF:17.9/20

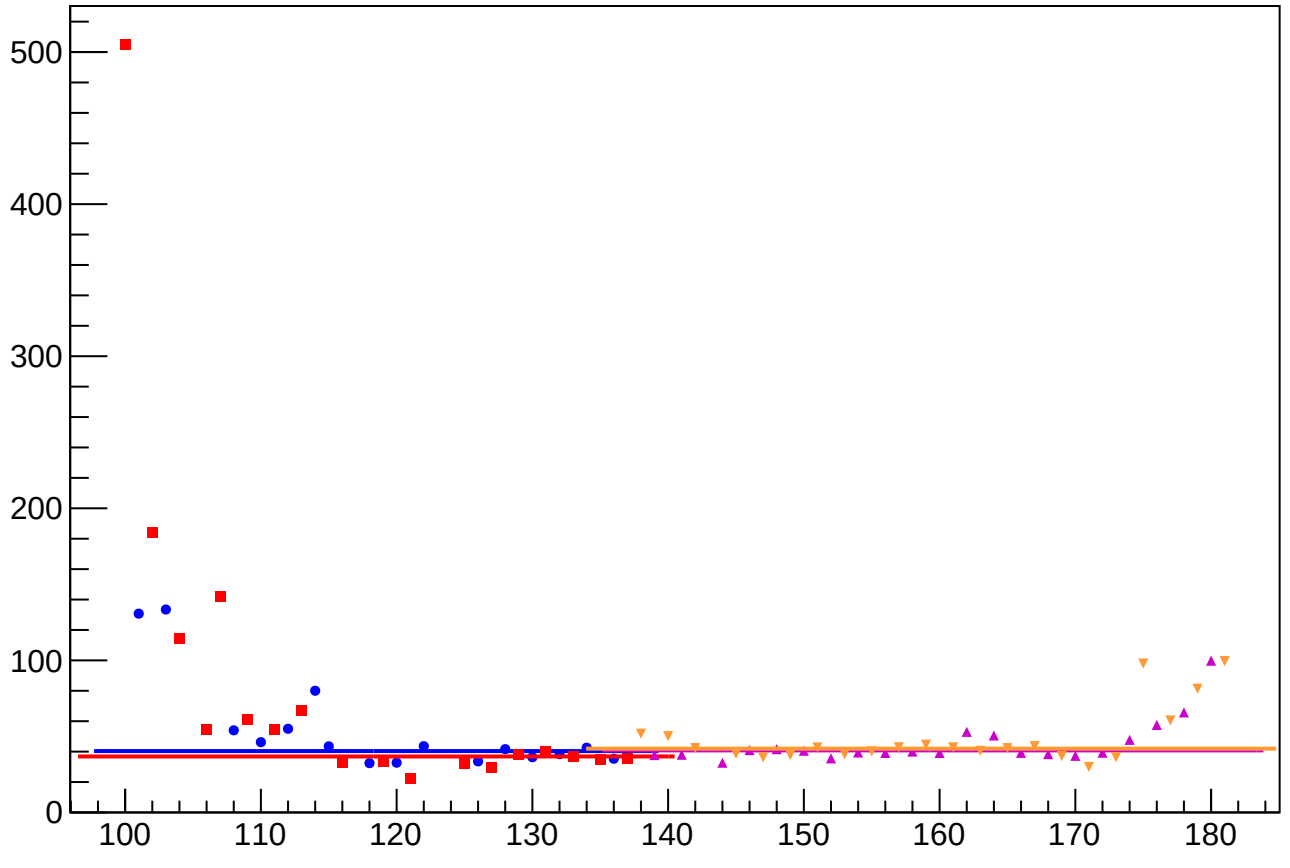
Left: 0.003+/-0.008 $\chi^2$/NDF: 39.9/42

Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: 0.005+/-0.009 $\chi^2$/NDF:35.2/36

Out: -0.002+/-0.009 $\chi^2$/NDF:32.4/39

All: 0.002+/-0.007 $\chi^2$/NDF: 68.0/76




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410137.1/15

Left Out: 41.948+/-0.008 $\chi^2$/NDF:1789642.0/21

Right Out: 36.825+/-0.012 $\chi^2$/NDF: 1837124.6/17

Left In: 40.811+/-0.008 $\chi^2$/NDF:1124139.6/20

Left: 41.366+/-0.006 $\chi^2$/NDF: 2924423.4/42

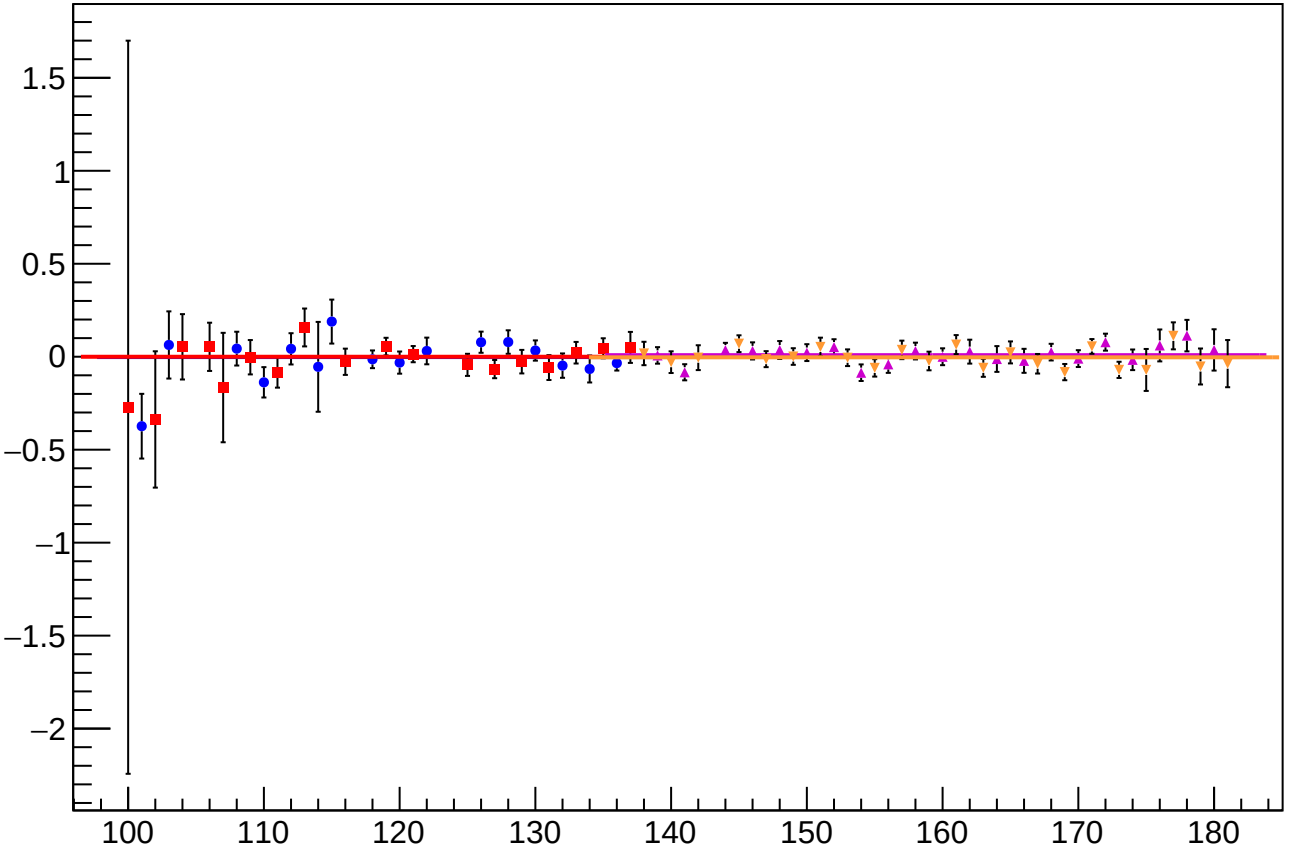
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290942.4/33

In: 40.678+/-0.006 $\chi^2$/NDF:2535306.0/36

Out: 40.364+/-0.007 $\chi^2$/NDF:3757310.1/39

All: 40.523+/-0.005 $\chi^2$/NDF: 6293781.2/76

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: -0.003+/-0.011 $\chi^2$/NDF:21.4/21

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: 0.008+/-0.011 $\chi^2$/NDF:17.9/20

Left: 0.003+/-0.008 $\chi^2$/NDF: 39.9/42

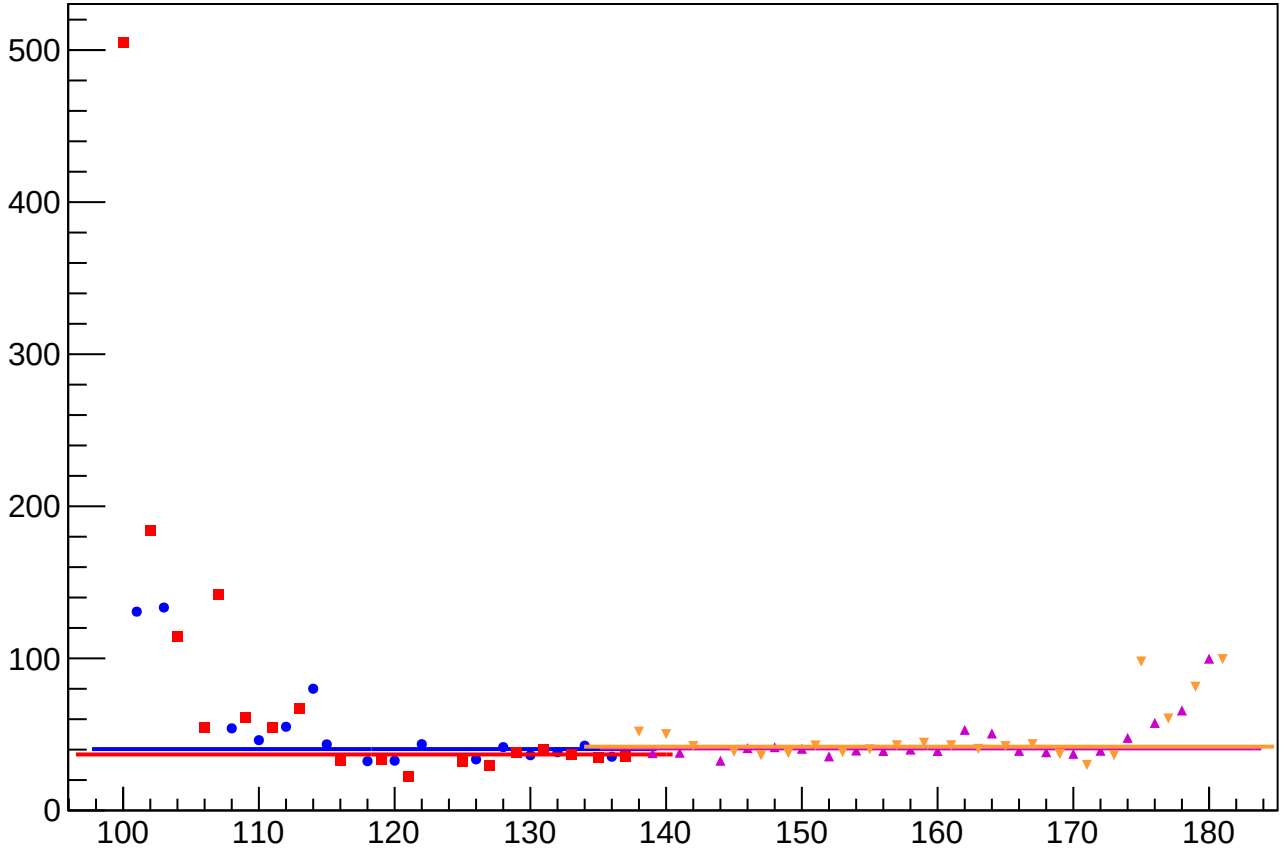
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: 0.005+/-0.009 $\chi^2$/NDF:35.2/36

Out: -0.002+/-0.009 $\chi^2$/NDF:32.4/39

All: 0.002+/-0.007 $\chi^2$/NDF: 68.0/76

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410137.1/15

Left Out: 41.948+/-0.008 $\chi^2$/NDF:1789642.0/21

Right Out: 36.825+/-0.012 $\chi^2$/NDF: 1837124.6/17

Left In: 40.811+/-0.008 $\chi^2$/NDF:1124139.6/20

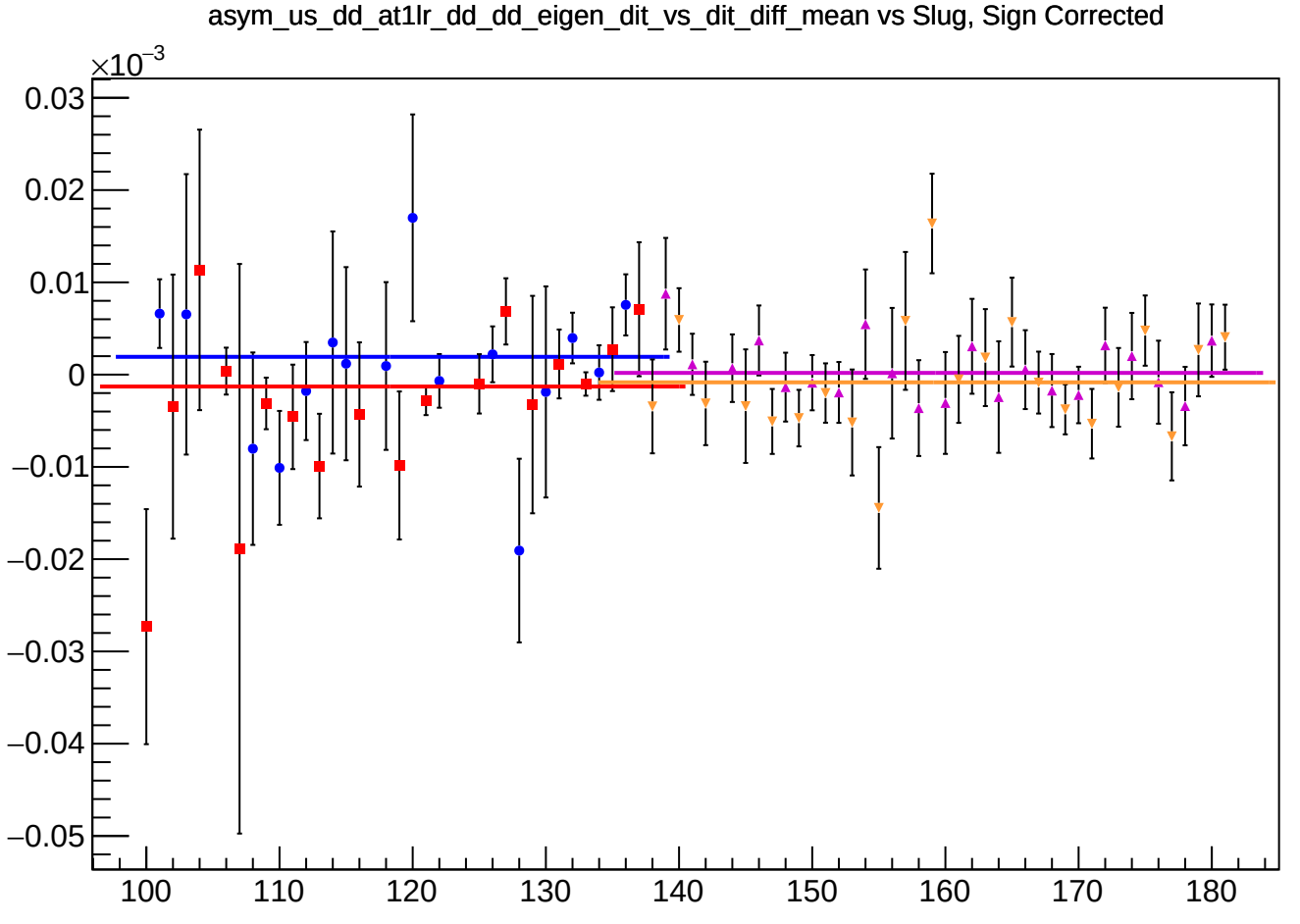
Left: 41.366+/-0.006 $\chi^2$/NDF: 2924423.4/42

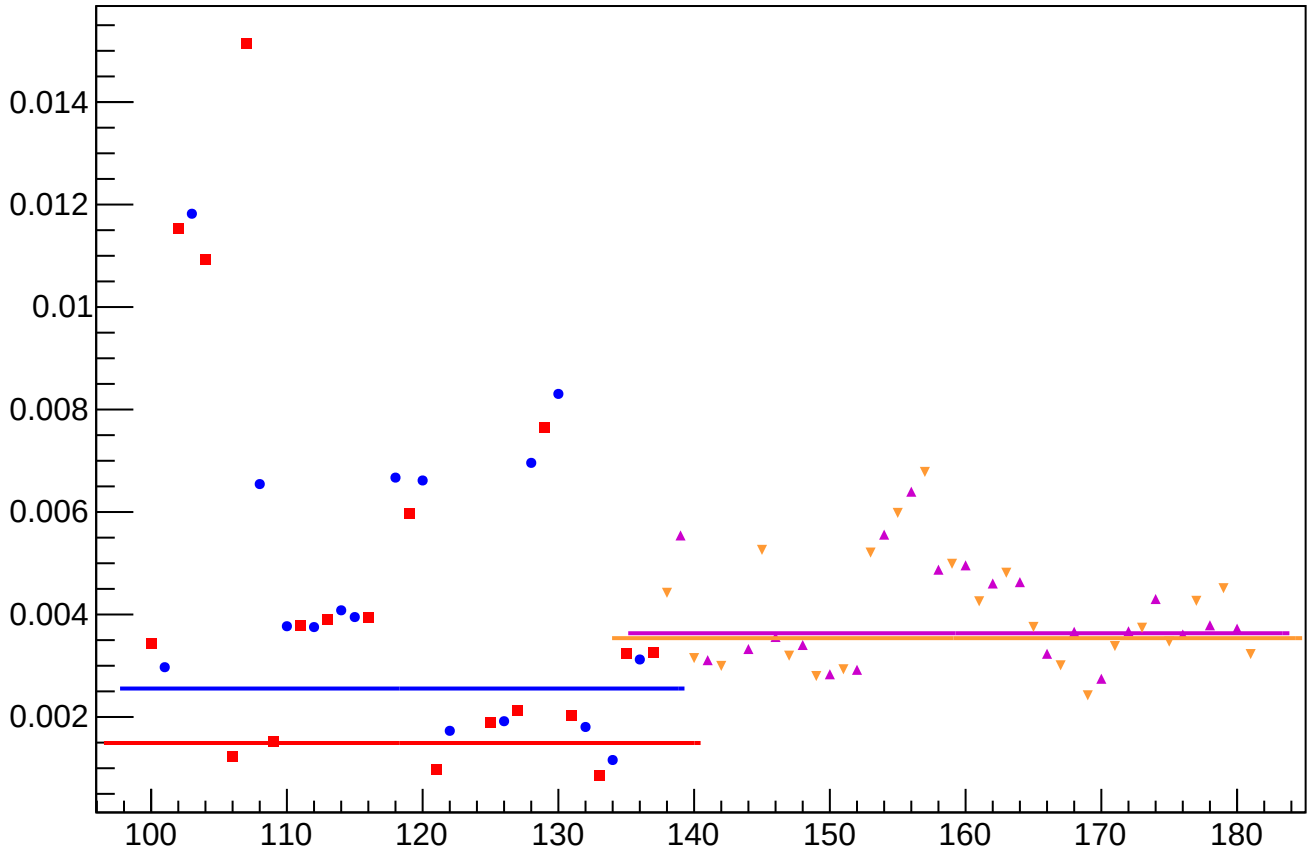
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290942.4/33

In: 40.678+/-0.006 $\chi^2$/NDF:2535306.0/36

Out: 40.364+/-0.007 $\chi^2$/NDF:3757310.1/39

All: 40.523+/-0.005 $\chi^2$/NDF: 6293781.2/76


asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 17.9/15
Left Out: -0.000+/-0.000 χ²/NDF:34.3/21
Right Out: -0.000+/-0.000 χ²/NDF: 18.9/17
Left In: 0.000+/-0.000 χ²/NDF:9.0/20
Left: -0.000+/-0.000 χ²/NDF: 44.0/42
Right: -0.000+/-0.000 χ²/NDF: 42.3/33
In: 0.000+/-0.000 χ²/NDF:28.3/36
Out: -0.000+/-0.000 χ²/NDF:53.4/39
All: -0.000+/-0.000 χ²/NDF: 86.3/76




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3782362.0/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2147719.1/21

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5561830.1/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:1609356.0/20

Left: 0.004+/-0.000 $\chi^2$/NDF: 3768610.0/42

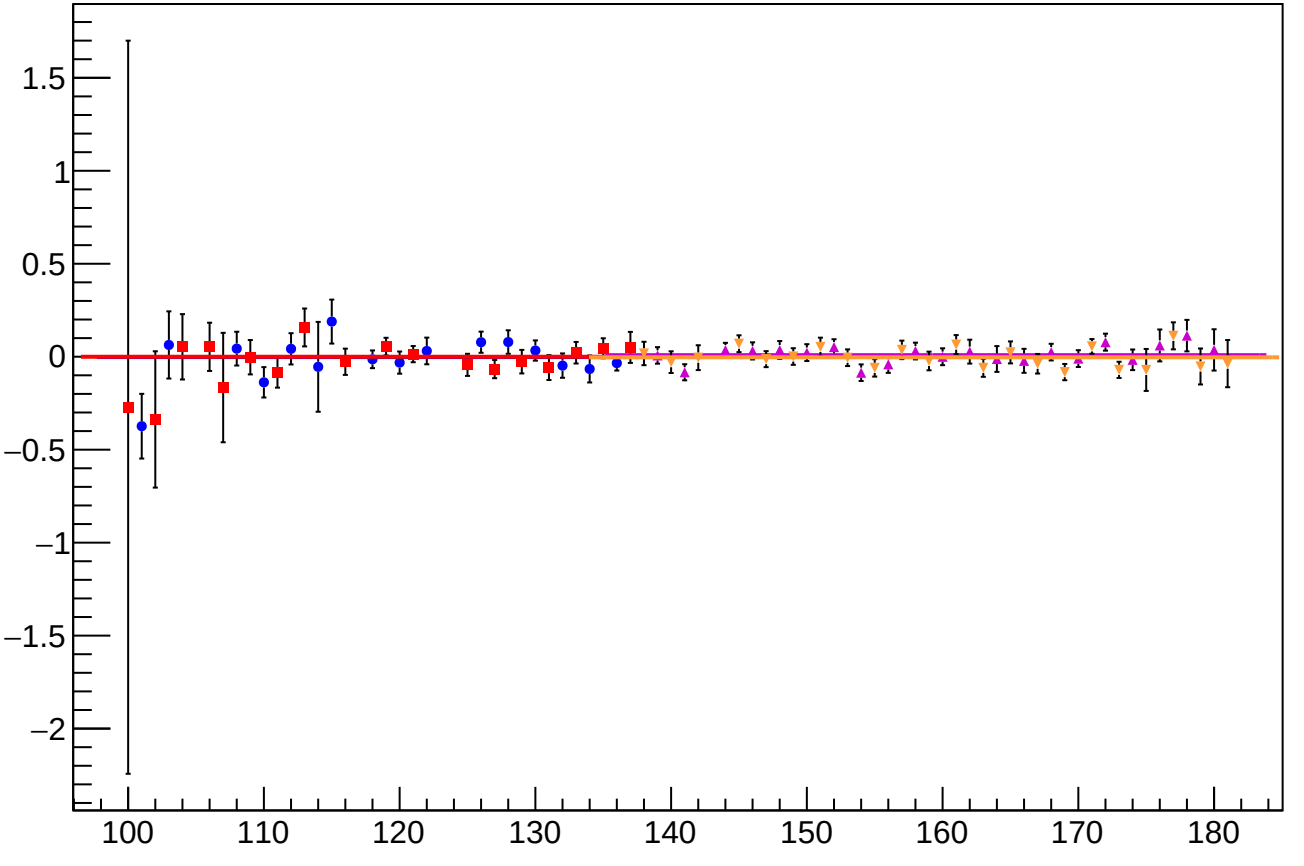
Right: 0.002+/-0.000 $\chi^2$/NDF: 10553457.3/33

In: 0.003+/-0.000 $\chi^2$/NDF:6488843.3/36

Out: 0.002+/-0.000 $\chi^2$/NDF:13971771.7/39

All: 0.003+/-0.000 $\chi^2$/NDF: 22248128.5/76

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: -0.003+/-0.011 $\chi^2$/NDF:21.4/21

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: 0.008+/-0.011 $\chi^2$/NDF:17.9/20

Left: 0.003+/-0.008 $\chi^2$/NDF: 39.9/42

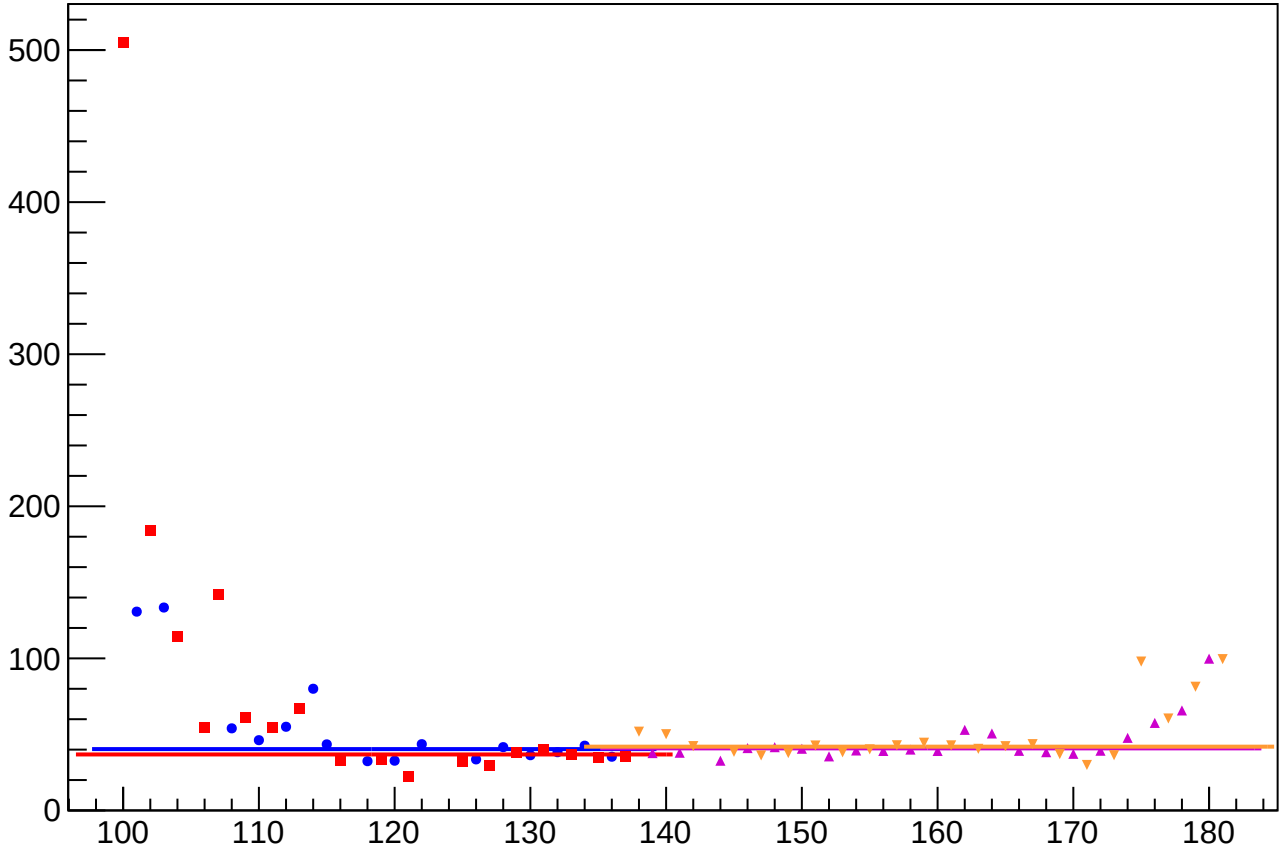
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: 0.005+/-0.009 $\chi^2$/NDF:35.2/36

Out: -0.002+/-0.009 $\chi^2$/NDF:32.4/39

All: 0.002+/-0.007 $\chi^2$/NDF: 68.0/76

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410036.7/15

Left Out: 41.947+/-0.008 $\chi^2$/NDF:1789663.0/21

Right Out: 36.824+/-0.012 $\chi^2$/NDF: 1837118.8/17

Left In: 40.811+/-0.008 $\chi^2$/NDF:1124069.6/20

Left: 41.365+/-0.006 $\chi^2$/NDF: 2924372.5/42

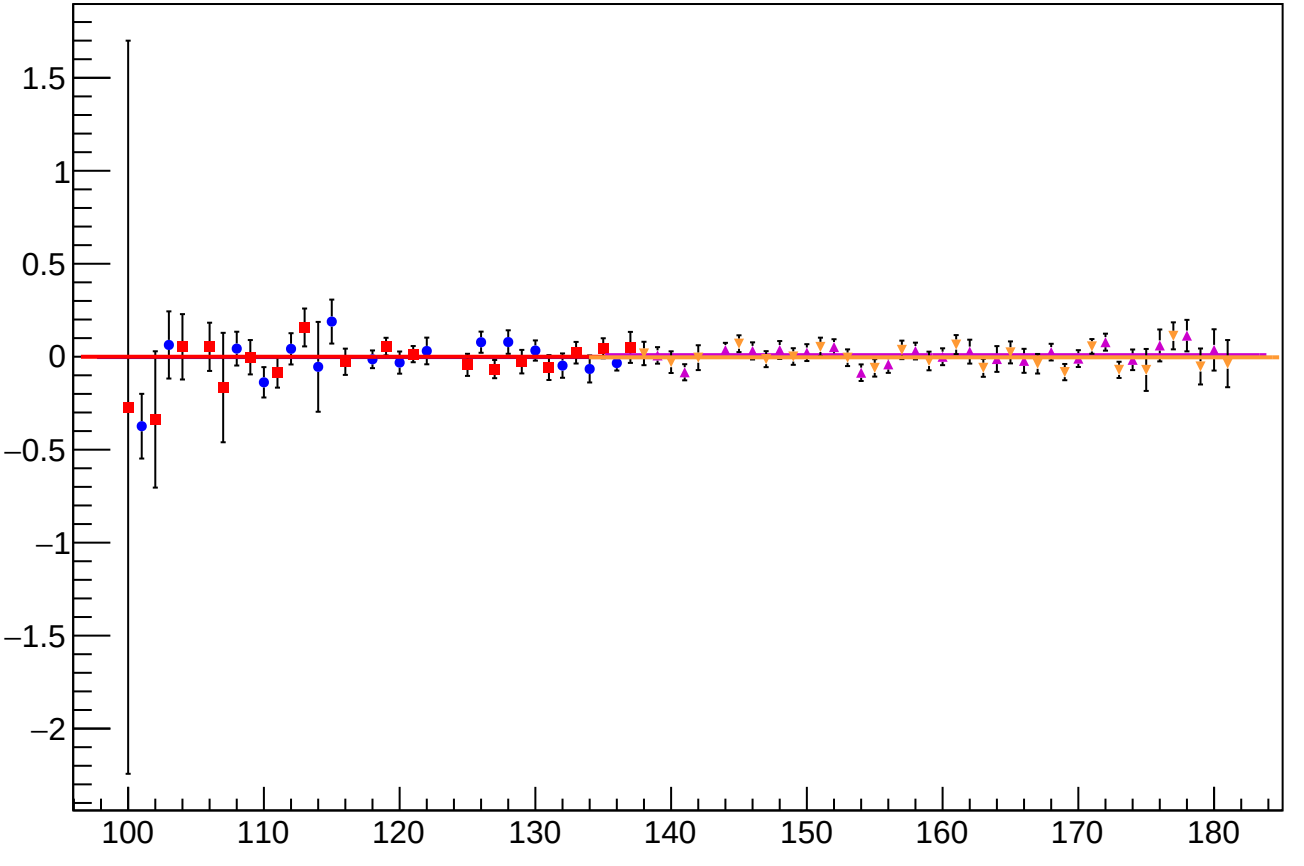
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290871.7/33

In: 40.678+/-0.006 $\chi^2$/NDF:2535132.6/36

Out: 40.363+/-0.007 $\chi^2$/NDF:3757361.0/39

All: 40.522+/-0.005 $\chi^2$/NDF: 6293662.7/76

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: -0.003+/-0.011 $\chi^2$/NDF:21.4/21

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: 0.008+/-0.011 $\chi^2$/NDF:17.9/20

Left: 0.003+/-0.008 $\chi^2$/NDF: 39.9/42

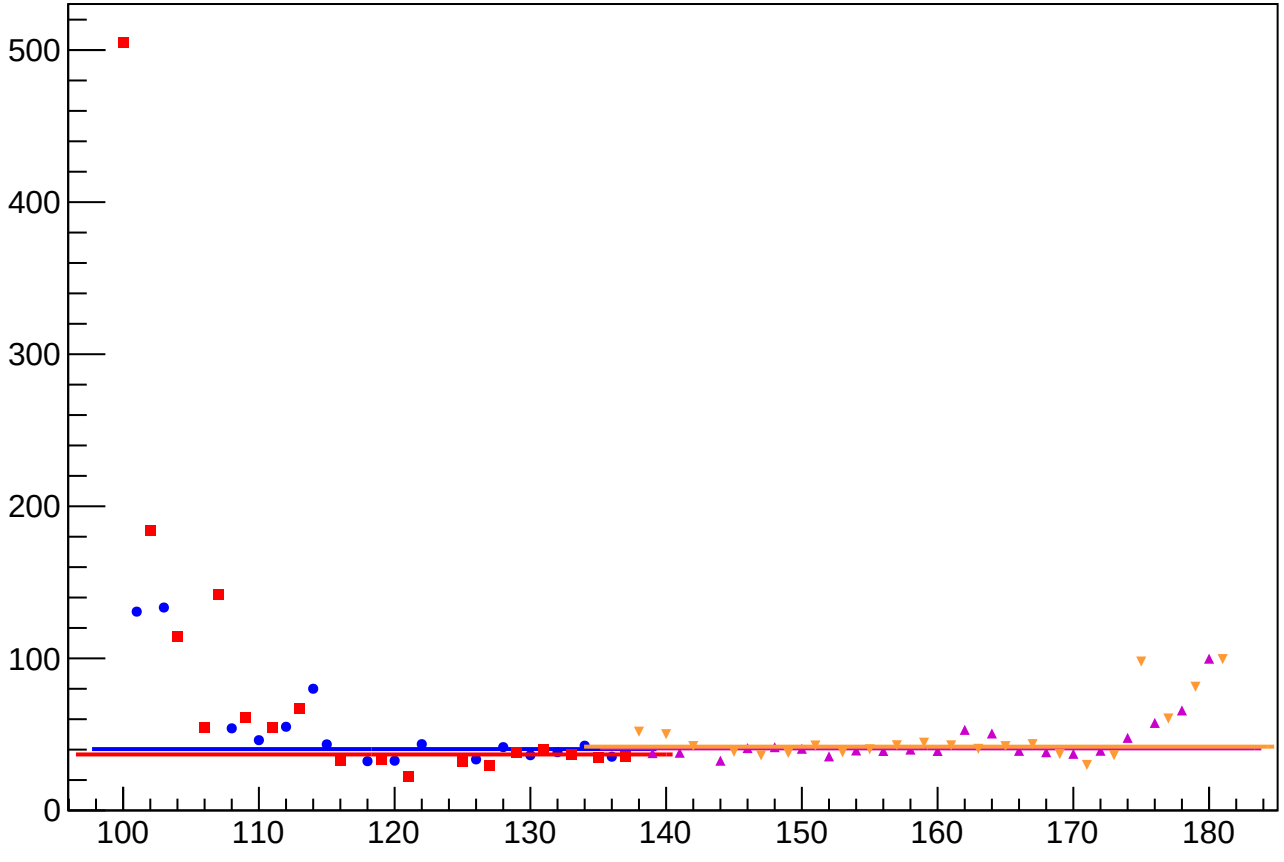
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: 0.005+/-0.009 $\chi^2$/NDF:35.2/36

Out: -0.002+/-0.009 $\chi^2$/NDF:32.4/39

All: 0.002+/-0.007 $\chi^2$/NDF: 68.0/76

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410036.7/15

Left Out: 41.947+/-0.008 $\chi^2$/NDF:1789663.0/21

Right Out: 36.824+/-0.012 $\chi^2$/NDF: 1837118.8/17

Left In: 40.811+/-0.008 $\chi^2$/NDF:1124069.6/20

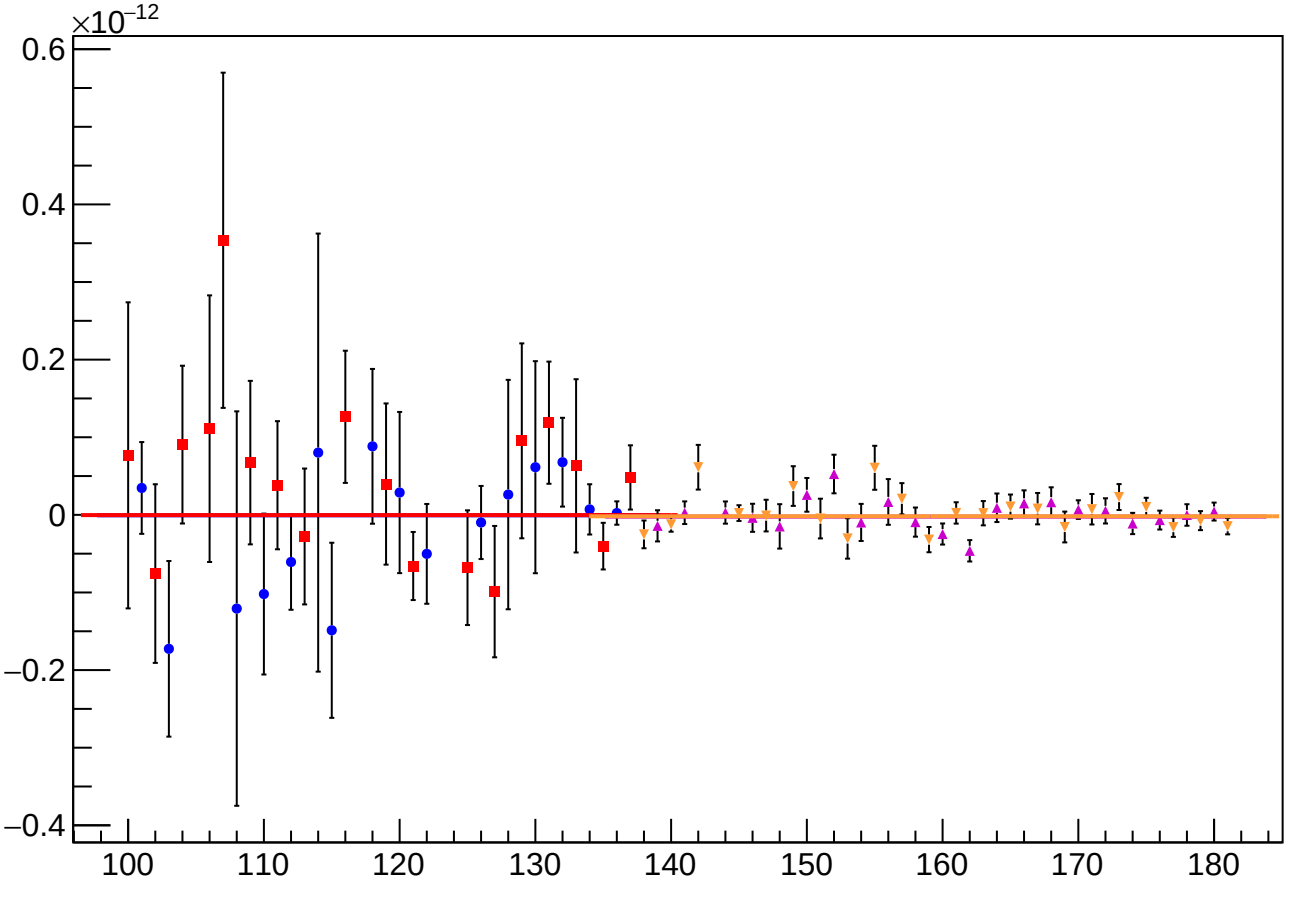
Left: 41.365+/-0.006 $\chi^2$/NDF: 2924372.5/42

Right: 38.545+/-0.008 $\chi^2$/NDF: 3290871.7/33

In: 40.678+/-0.006 $\chi^2$/NDF:2535132.6/36

Out: 40.363+/-0.007 $\chi^2$/NDF:3757361.0/39

All: 40.522+/-0.005 $\chi^2$/NDF: 6293662.7/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.9/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.4/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.0/20

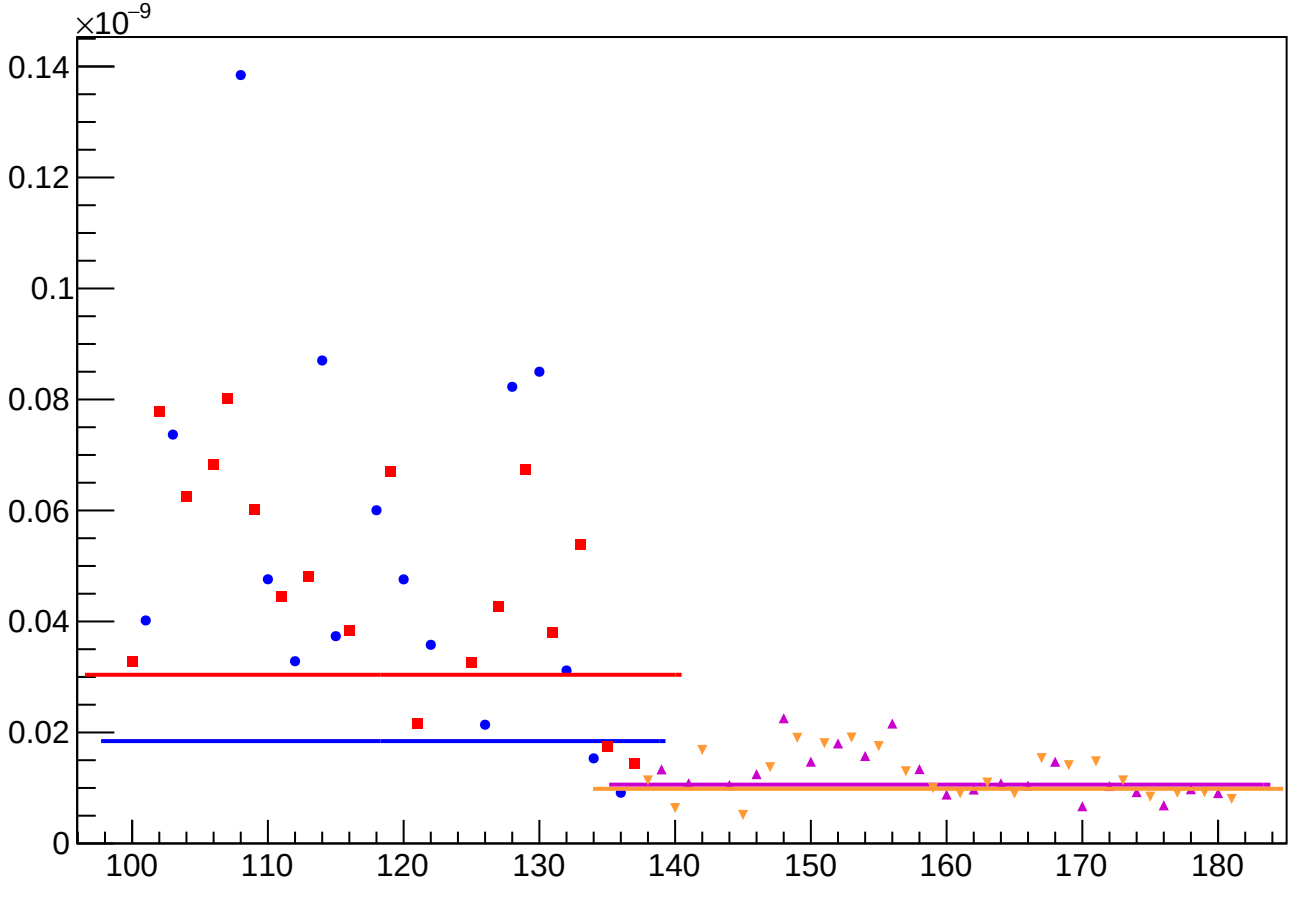
Left: -0.000+/-0.000 $\chi^2$/NDF: 53.9/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.2/33

In: -0.000+/-0.000 $\chi^2$/NDF:34.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:47.2/39

All: -0.000+/-0.000 $\chi^2$/NDF: 82.1/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4022915.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2326127.2/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2387224.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1674040.0/20

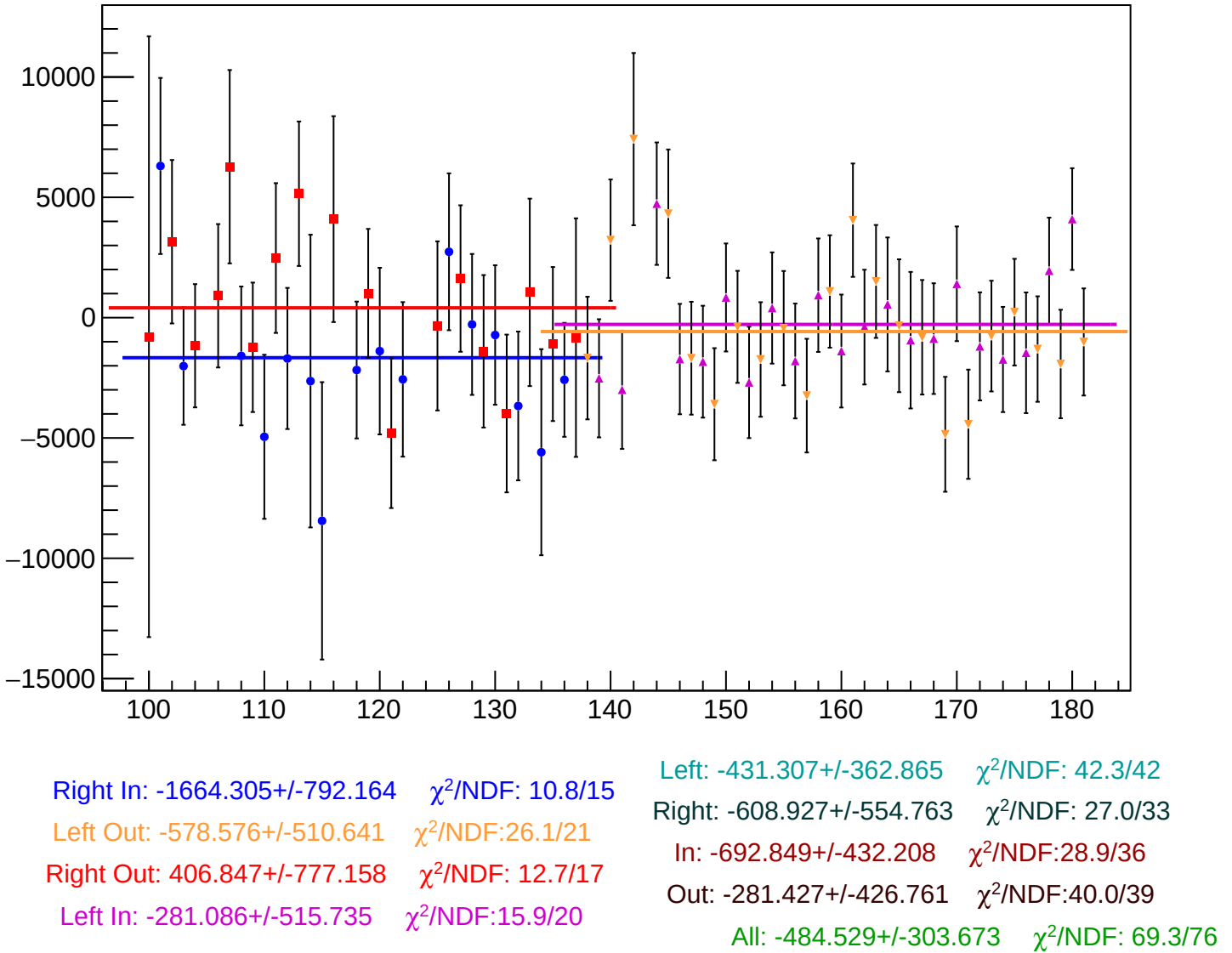
Left: 0.000+/-0.000 $\chi^2$/NDF: 4049471.7/42

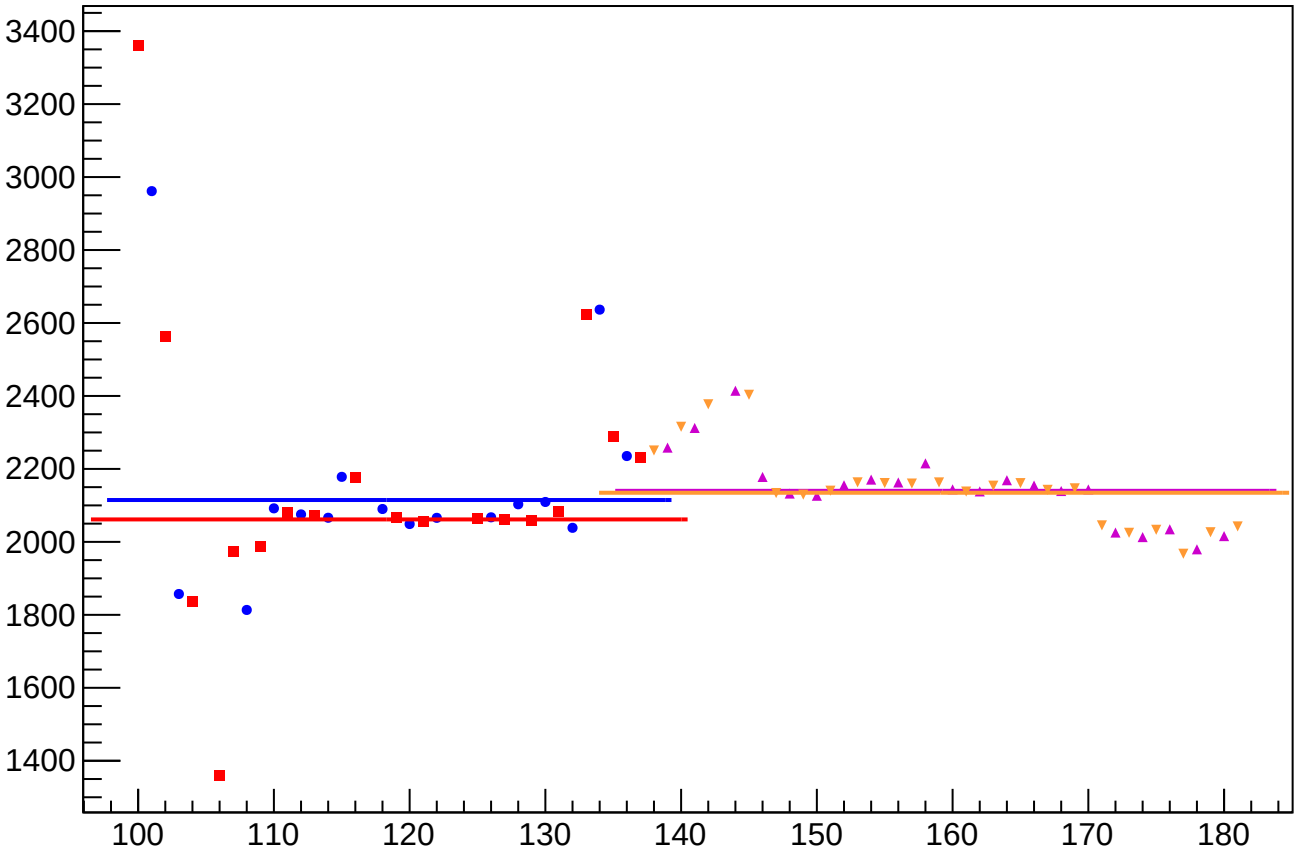
Right: 0.000+/-0.000 $\chi^2$/NDF: 7115915.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:6541653.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7711975.6/39

All: 0.000+/-0.000 $\chi^2$/NDF: 14291072.0/76


reg_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: -1664.305+/-792.164 χ²/NDF: 10.8/15
Left Out: -578.576+/-510.641 χ²/NDF:26.1/21
Right Out: 406.847+/-777.158 χ²/NDF: 12.7/17
Left In: -281.086+/-515.735 χ²/NDF:15.9/20
Left: -431.307+/-362.865 χ²/NDF: 42.3/42
Right: -608.927+/-554.763 χ²/NDF: 27.0/33
In: -692.849+/-432.208 χ²/NDF:28.9/36
Out: -281.427+/-426.761 χ²/NDF:40.0/39
All: -484.529+/-303.673 χ²/NDF: 69.3/76




Right In: 2114.755+/-0.560 $\chi^2$/NDF: 189920.6/15

Left Out: 2134.668+/-0.361 $\chi^2$/NDF:76883.9/21

Right Out: 2061.560+/-0.550 $\chi^2$/NDF: 249186.6/17

Left In: 2139.930+/-0.365 $\chi^2$/NDF:74218.8/20

Left: 2137.273+/-0.257 $\chi^2$/NDF: 151207.8/42

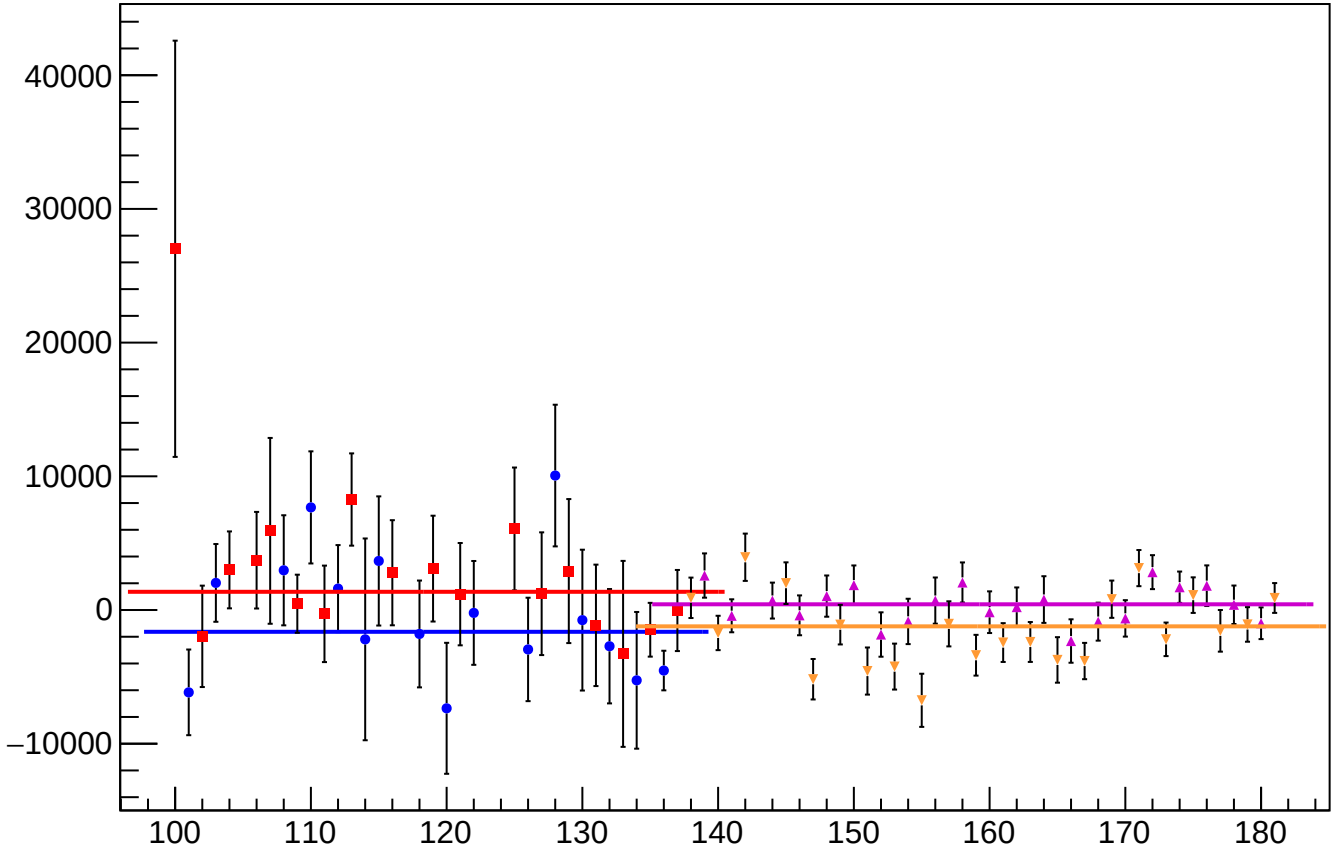
Right: 2087.649+/-0.392 $\chi^2$/NDF: 443702.7/33

In: 2132.436+/-0.306 $\chi^2$/NDF:265558.0/36

Out: 2112.623+/-0.302 $\chi^2$/NDF:338432.4/39

All: 2122.404+/-0.215 $\chi^2$/NDF: 606118.6/76

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -1630.474+/-862.417 $\chi^2$/NDF: 22.9/15

Left Out: -1222.401+/-312.318 $\chi^2$/NDF:65.2/21

Right Out: 1361.841+/-840.417 $\chi^2$/NDF: 13.5/17

Left In: 426.958+/-316.371 $\chi^2$/NDF:18.8/20

Left: -408.353+/-222.261 $\chi^2$/NDF: 97.8/42

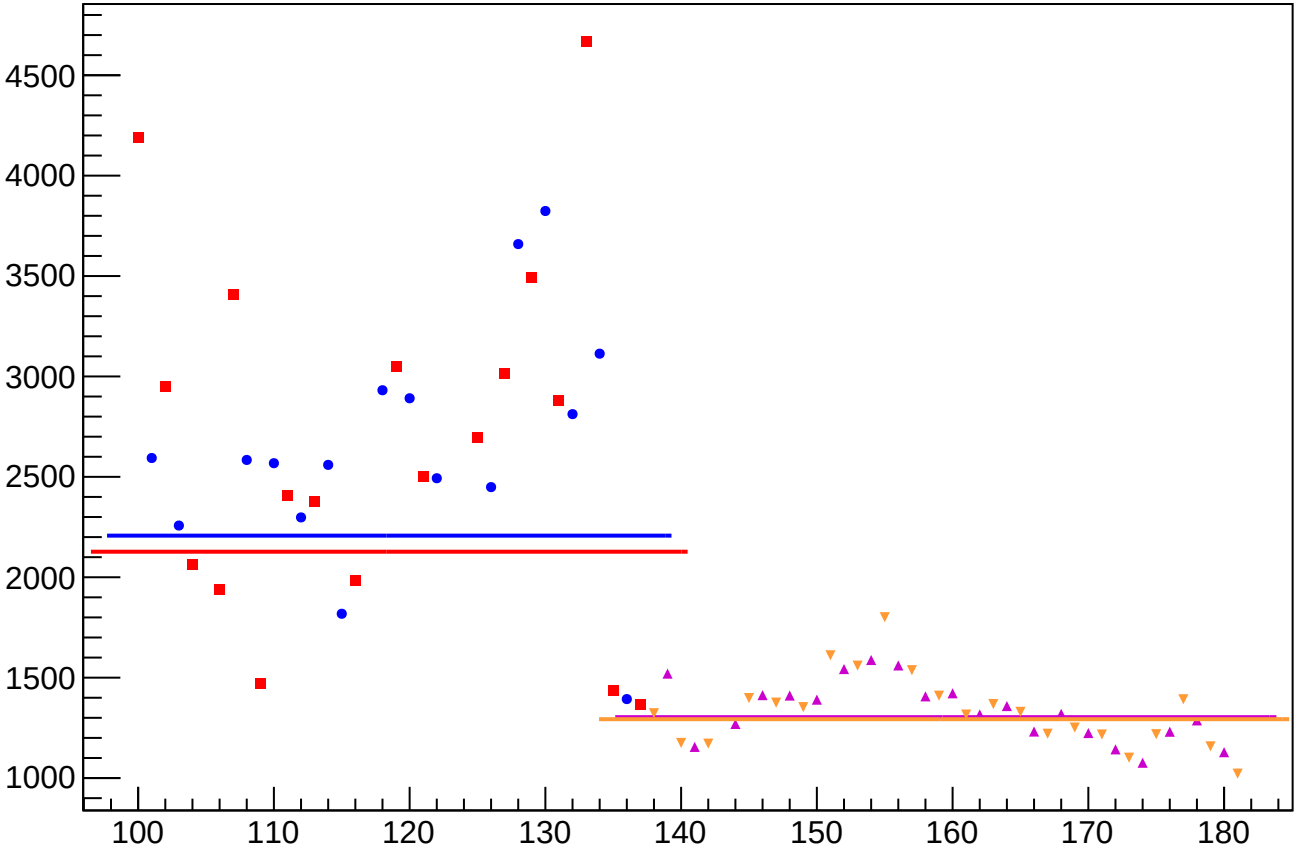
Right: -95.664+/-601.892 $\chi^2$/NDF: 42.5/33

In: 182.924+/-297.016 $\chi^2$/NDF:46.7/36

Out: -908.815+/-292.756 $\chi^2$/NDF:87.0/39

All: -370.831+/-208.500 $\chi^2$/NDF: 140.5/76

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 2207.254+/-0.610 $\chi^2$/NDF: 1249266.5/15

Left Out: 1293.142+/-0.221 $\chi^2$/NDF:564606.2/21

Right Out: 2127.224+/-0.594 $\chi^2$/NDF: 1458046.9/17

Left In: 1303.356+/-0.224 $\chi^2$/NDF:423714.6/20

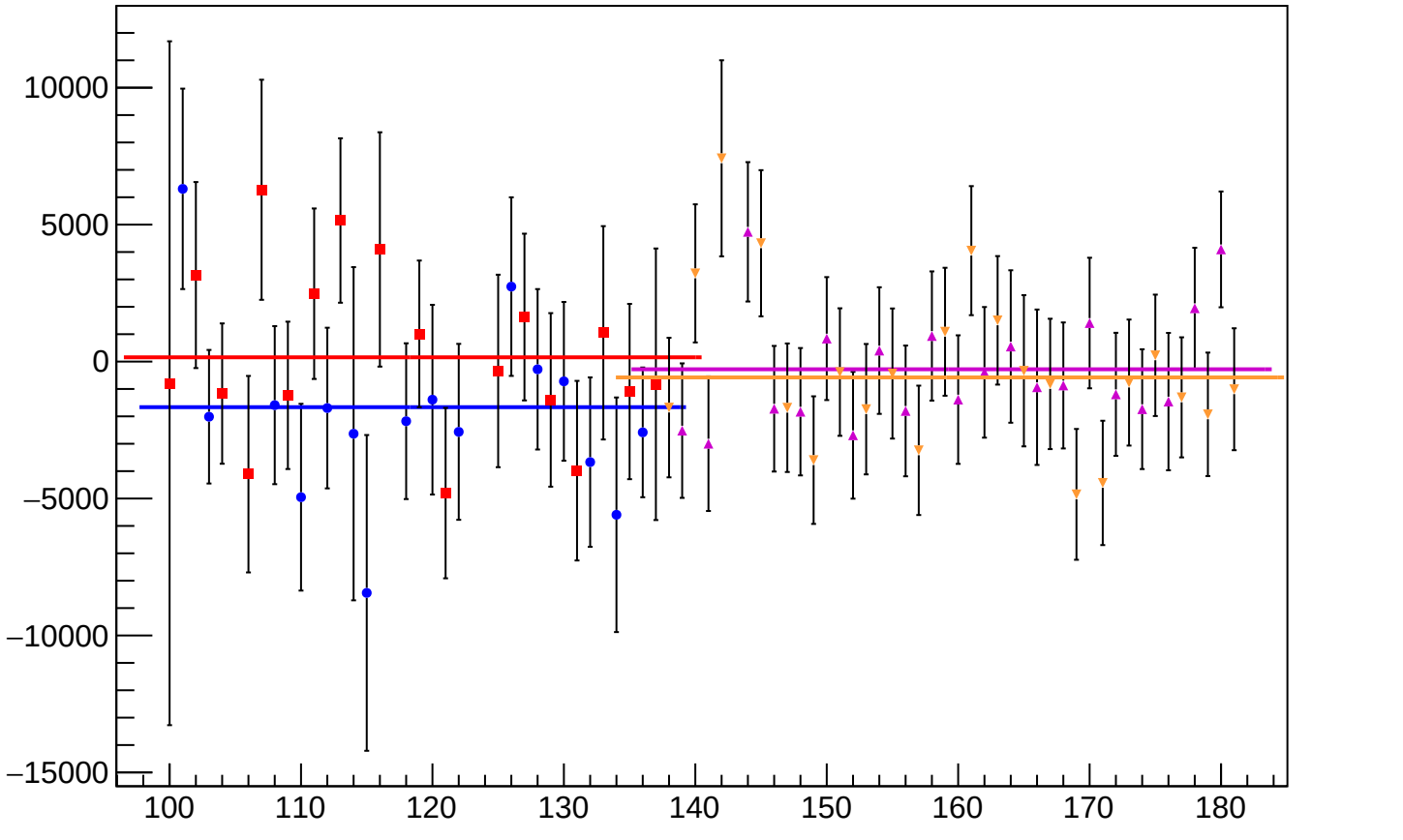
Left: 1298.183+/-0.157 $\chi^2$/NDF: 989376.7/42

Right: 2166.205+/-0.426 $\chi^2$/NDF: 2716147.2/33

In: 1410.569+/-0.210 $\chi^2$/NDF:3609409.0/36

Out: 1394.354+/-0.207 $\chi^2$/NDF:3753570.1/39

All: 1402.344+/-0.147 $\chi^2$/NDF: 7366002.5/76




Right In: -1664.231+/-792.164 $\chi^2$/NDF: 10.8/15

Left Out: -578.432+/-510.641 $\chi^2$/NDF:26.1/21

Right Out: 155.775+/-785.481 $\chi^2$/NDF: 14.2/17

Left In: -281.020+/-515.735 $\chi^2$/NDF:15.9/20

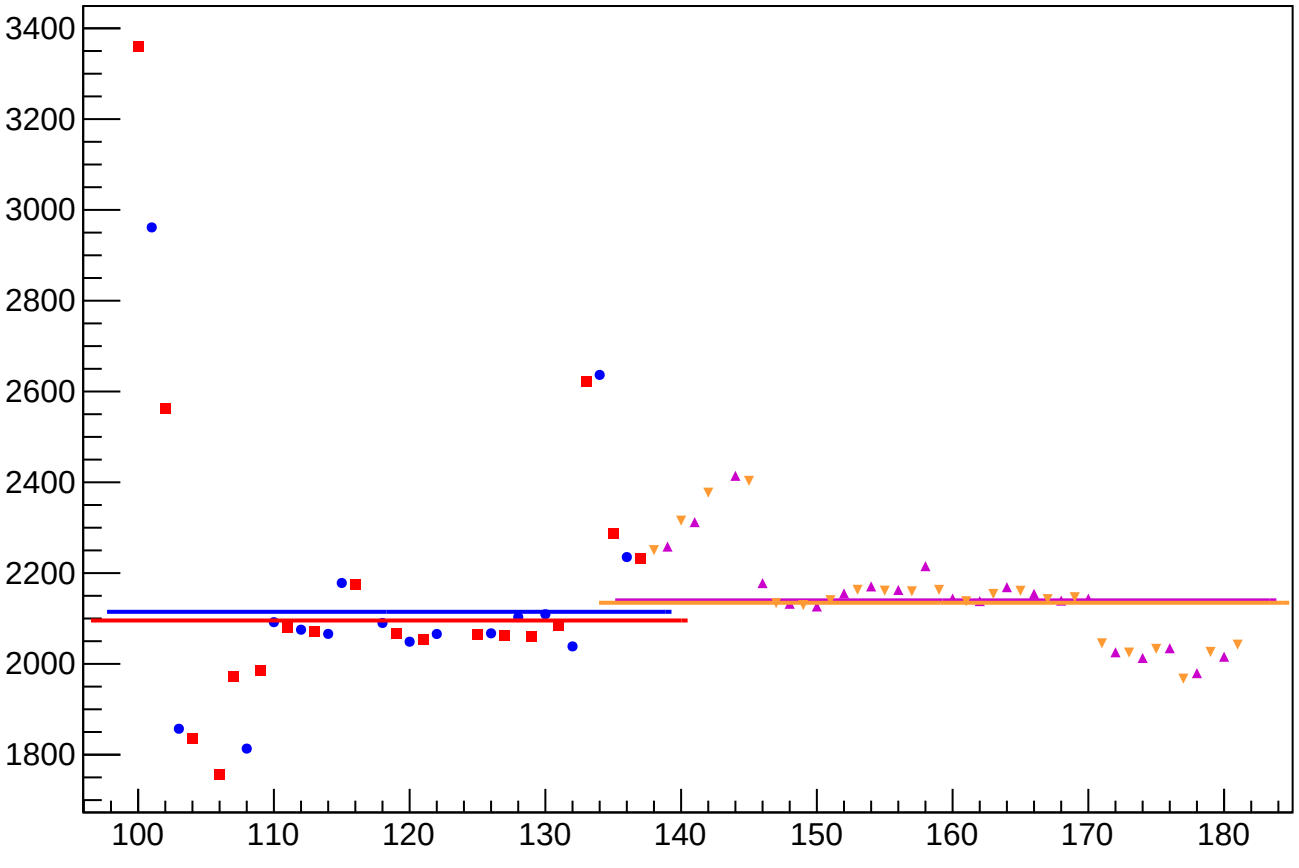
Left: -431.202+/-362.865 $\chi^2$/NDF: 42.3/42

Right: -746.519+/-557.767 $\chi^2$/NDF: 27.6/33

In: -692.780+/-432.208 $\chi^2$/NDF:28.9/36

Out: -360.317+/-428.124 $\chi^2$/NDF:41.0/39

All: -524.970+/-304.163 $\chi^2$/NDF: 70.1/76




Right In: 2114.755+/-0.560 $\chi^2$/NDF: 189920.9/15

Left Out: 2134.668+/-0.361 $\chi^2$/NDF:76883.9/21

Right Out: 2095.597+/-0.555 $\chi^2$/NDF: 149360.5/17

Left In: 2139.930+/-0.365 $\chi^2$/NDF:74218.8/20

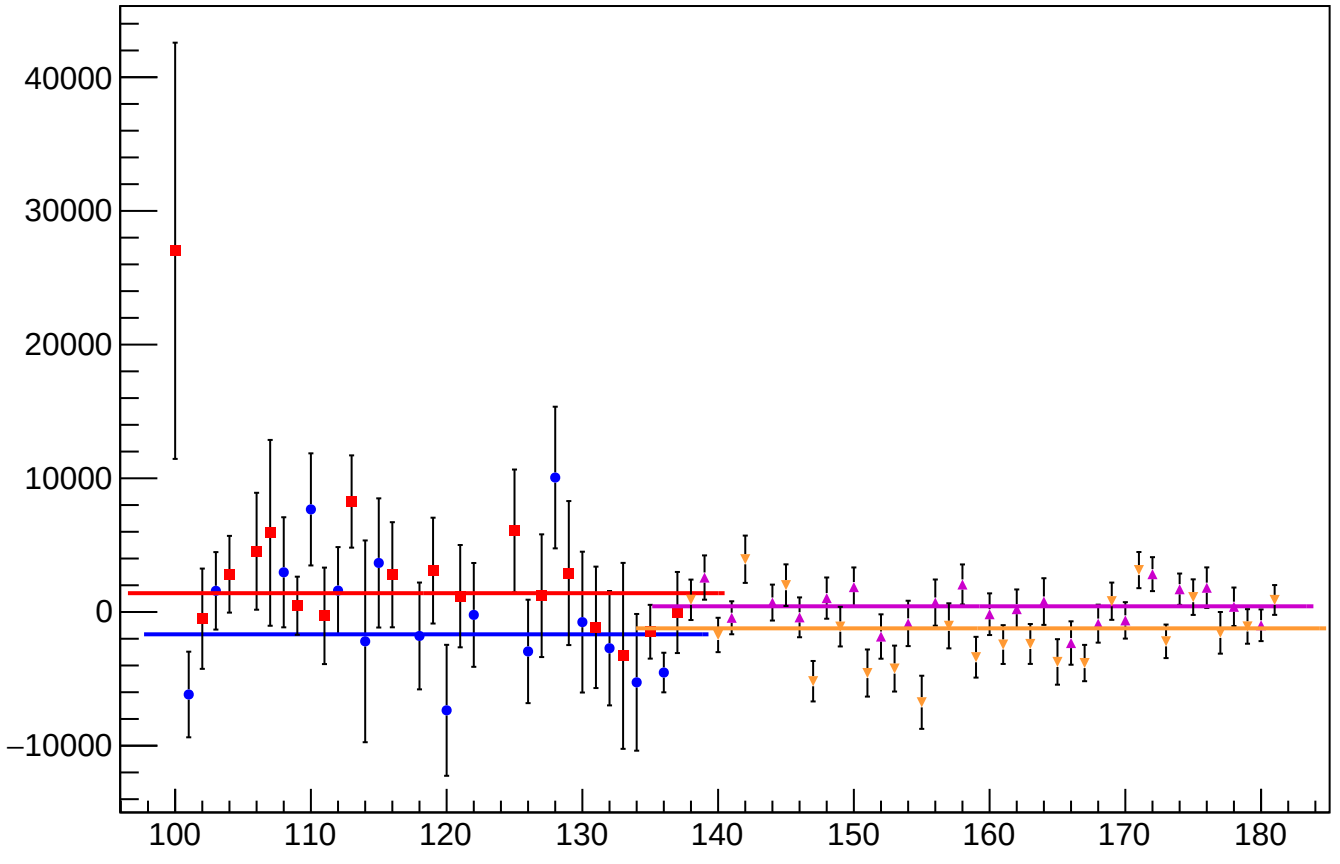
Left: 2137.273+/-0.257 $\chi^2$/NDF: 151207.8/42

Right: 2105.095+/-0.394 $\chi^2$/NDF: 339871.2/33

In: 2132.436+/-0.306 $\chi^2$/NDF:265558.3/36

Out: 2123.061+/-0.303 $\chi^2$/NDF:229722.9/39

All: 2127.704+/-0.215 $\chi^2$/NDF: 495756.2/76




Right In: -1668.482+/-862.126 $\chi^2$/NDF: 22.5/15

Left Out: -1222.366+/-312.320 $\chi^2$/NDF:65.3/21

Right Out: 1407.975+/-847.068 $\chi^2$/NDF: 13.0/17

Left In: 426.850+/-316.372 $\chi^2$/NDF:18.8/20

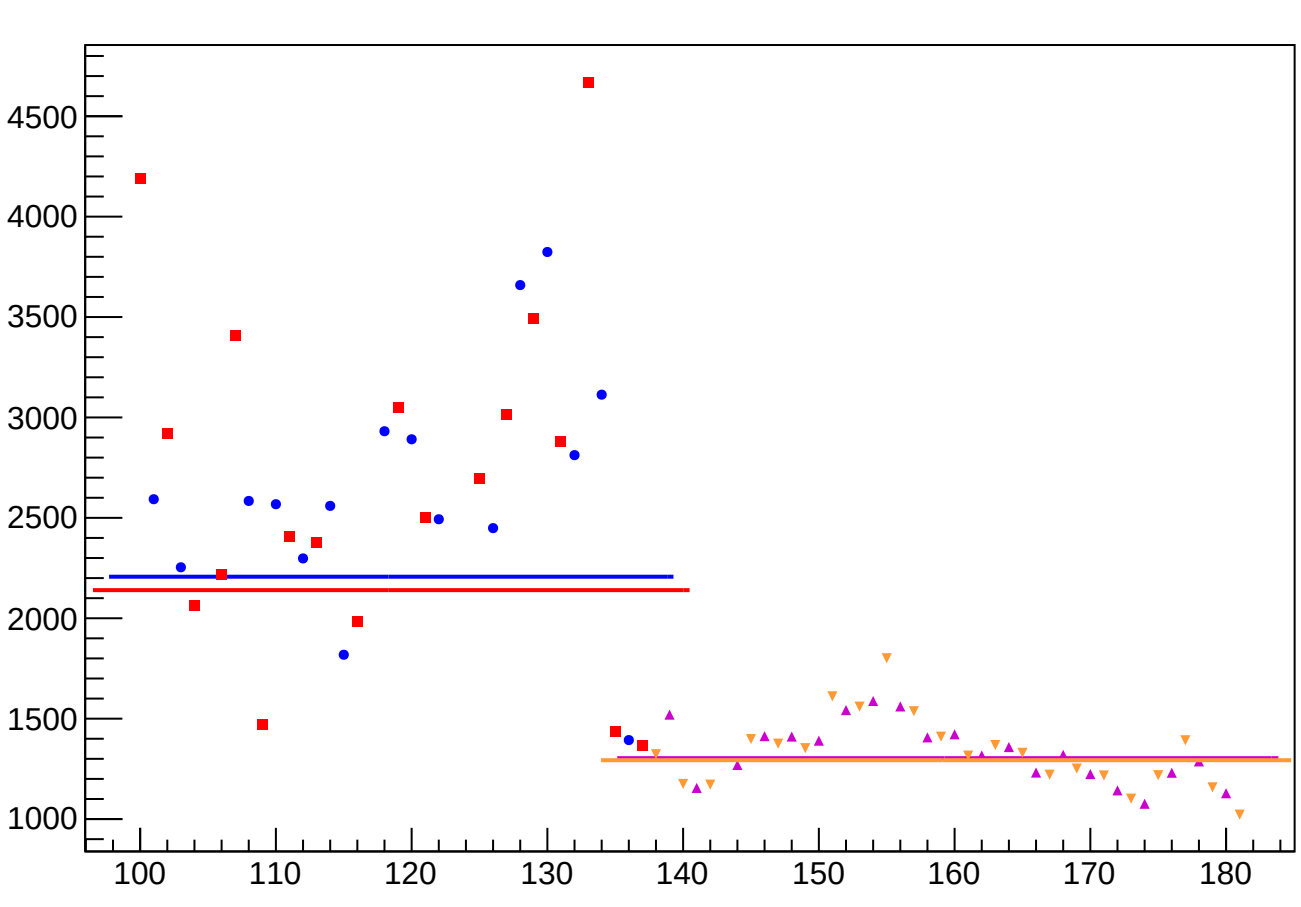
Left: -408.386+/-222.262 $\chi^2$/NDF: 97.8/42

Right: -103.153+/-604.221 $\chi^2$/NDF: 42.0/33

In: 178.171+/-297.005 $\chi^2$/NDF:46.5/36

Out: -907.579+/-293.036 $\chi^2$/NDF:86.7/39

All: -372.006+/-208.597 $\chi^2$/NDF: 140.0/76




Right In: 2206.918+/-0.610 $\chi^2$/NDF: 1249024.4/15

Left Out: 1293.151+/-0.221 $\chi^2$/NDF:564542.3/21

Right Out: 2140.060+/-0.599 $\chi^2$/NDF: 1448366.8/17

Left In: 1303.359+/-0.224 $\chi^2$/NDF:423726.8/20

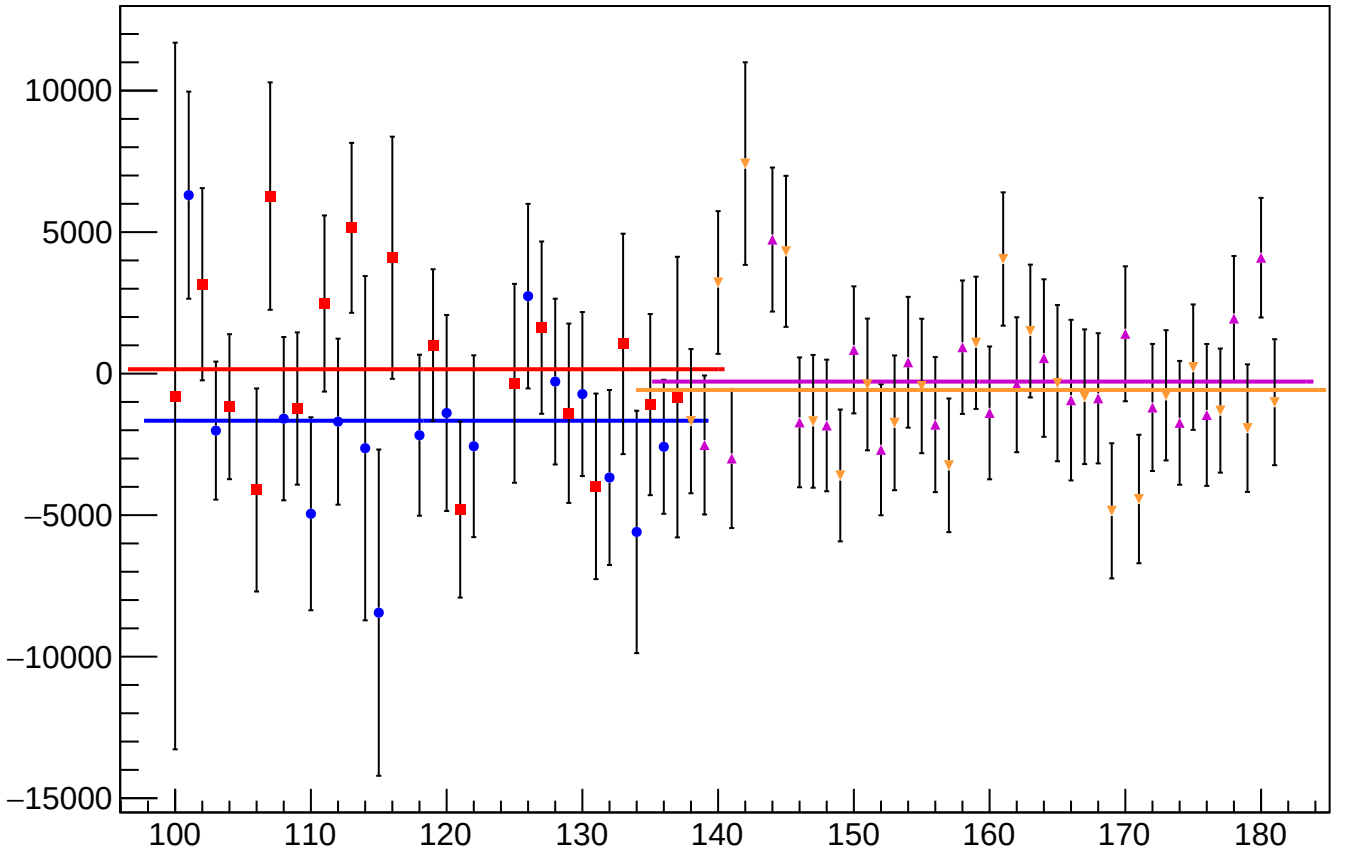
Left: 1298.189+/-0.157 $\chi^2$/NDF: 989323.7/42

Right: 2172.900+/-0.427 $\chi^2$/NDF: 2703511.1/33

In: 1410.596+/-0.210 $\chi^2$/NDF:3608878.0/36

Out: 1394.505+/-0.207 $\chi^2$/NDF:3772895.3/39

All: 1402.442+/-0.148 $\chi^2$/NDF: 7384747.9/76




Right In: -1664.231+/-792.164 $\chi^2$/NDF: 10.8/15

Left Out: -578.432+/-510.641 $\chi^2$/NDF:26.1/21

Right Out: 155.775+/-785.481 $\chi^2$/NDF: 14.2/17

Left In: -281.020+/-515.735 $\chi^2$/NDF:15.9/20

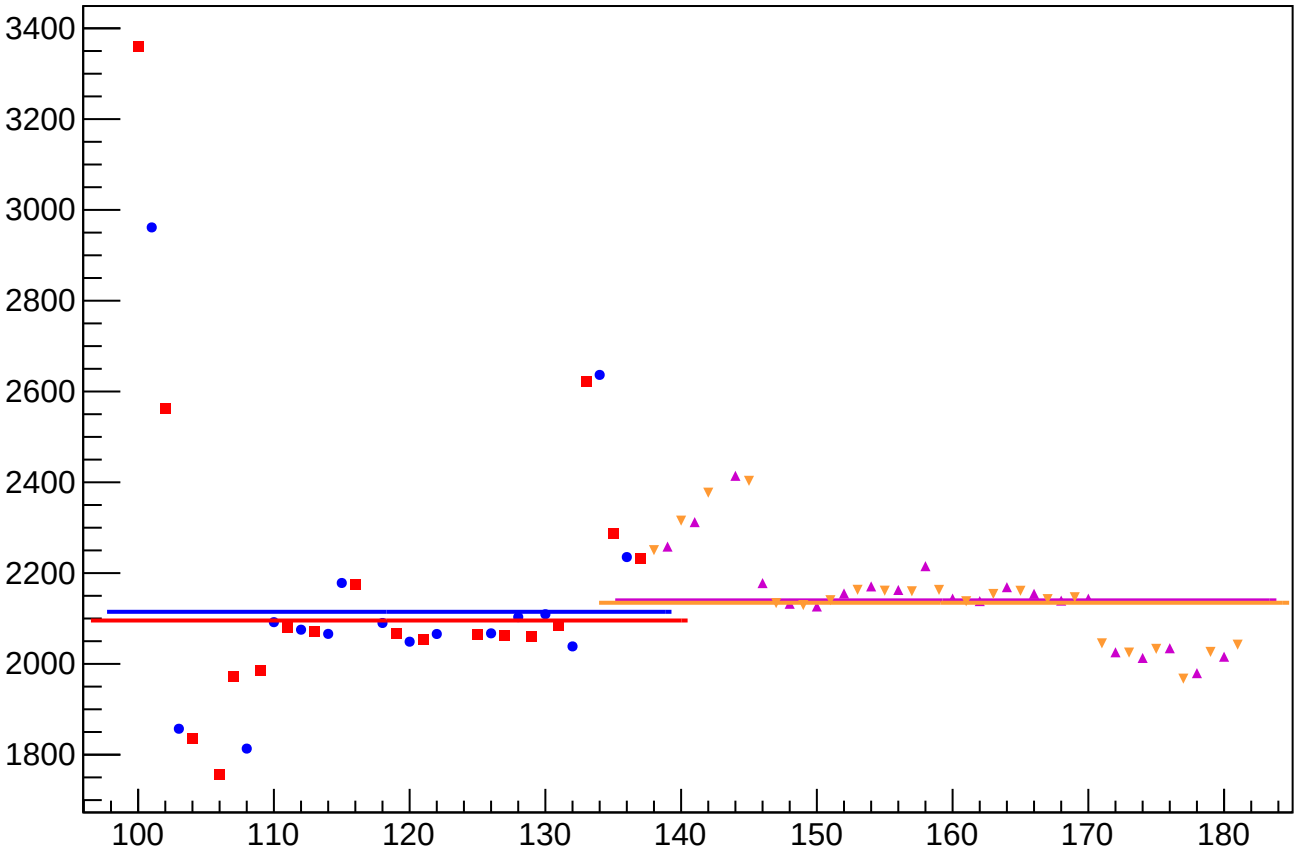
Left: -431.202+/-362.865 $\chi^2$/NDF: 42.3/42

Right: -746.519+/-557.767 $\chi^2$/NDF: 27.6/33

In: -692.780+/-432.208 $\chi^2$/NDF:28.9/36

Out: -360.317+/-428.124 $\chi^2$/NDF:41.0/39

All: -524.970+/-304.163 $\chi^2$/NDF: 70.1/76




Right In: 2114.755+/-0.560 $\chi^2$/NDF: 189920.9/15

Left Out: 2134.668+/-0.361 $\chi^2$/NDF:76883.9/21

Right Out: 2095.597+/-0.555 $\chi^2$/NDF: 149360.5/17

Left In: 2139.930+/-0.365 $\chi^2$/NDF:74218.8/20

Left: 2137.273+/-0.257 $\chi^2$/NDF: 151207.8/42

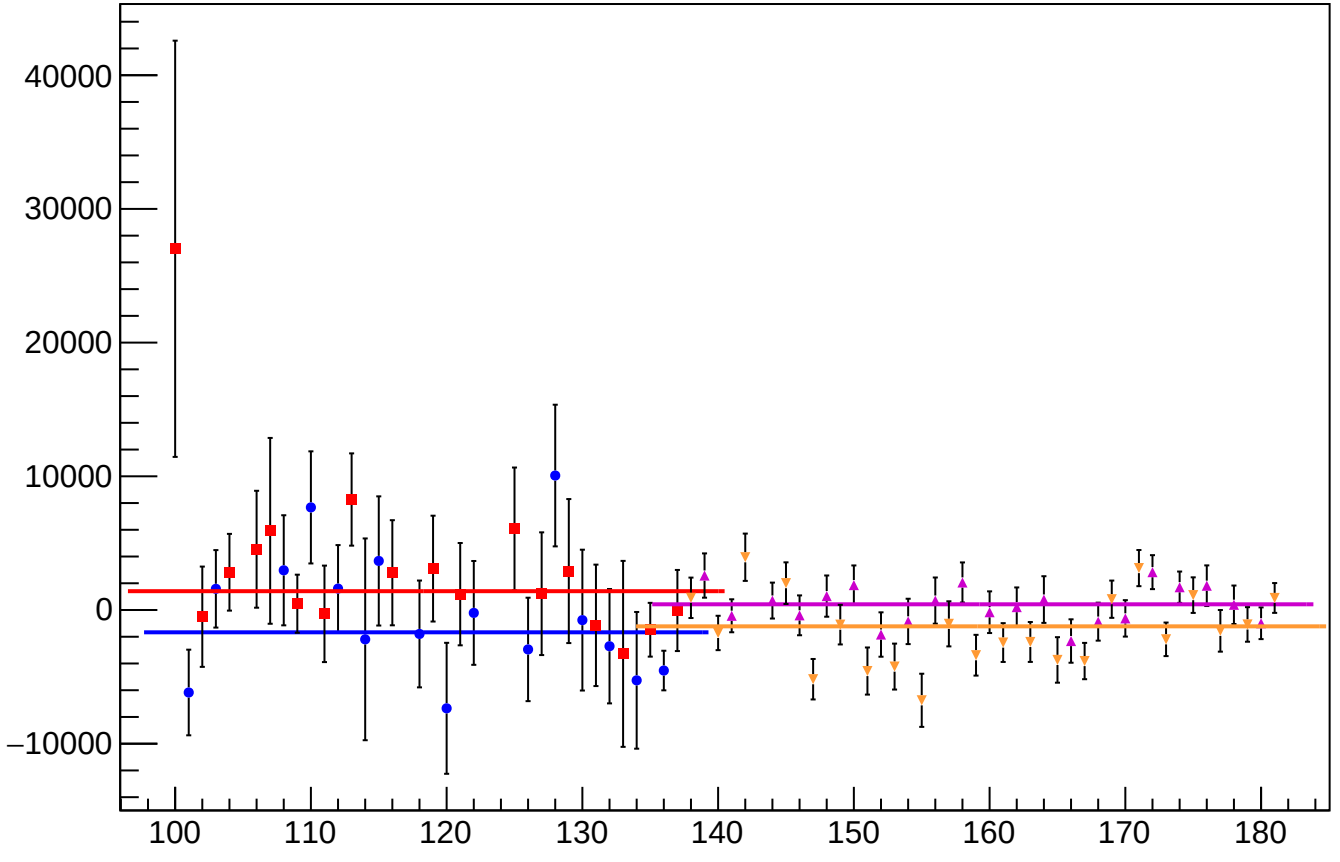
Right: 2105.095+/-0.394 $\chi^2$/NDF: 339871.2/33

In: 2132.436+/-0.306 $\chi^2$/NDF:265558.3/36

Out: 2123.061+/-0.303 $\chi^2$/NDF:229722.9/39

All: 2127.704+/-0.215 $\chi^2$/NDF: 495756.2/76

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1668.482+/-862.126 $\chi^2$/NDF: 22.5/15

Left Out: -1222.366+/-312.320 $\chi^2$/NDF:65.3/21

Right Out: 1407.975+/-847.068 $\chi^2$/NDF: 13.0/17

Left In: 426.850+/-316.372 $\chi^2$/NDF:18.8/20

Left: -408.386+/-222.262 $\chi^2$/NDF: 97.8/42

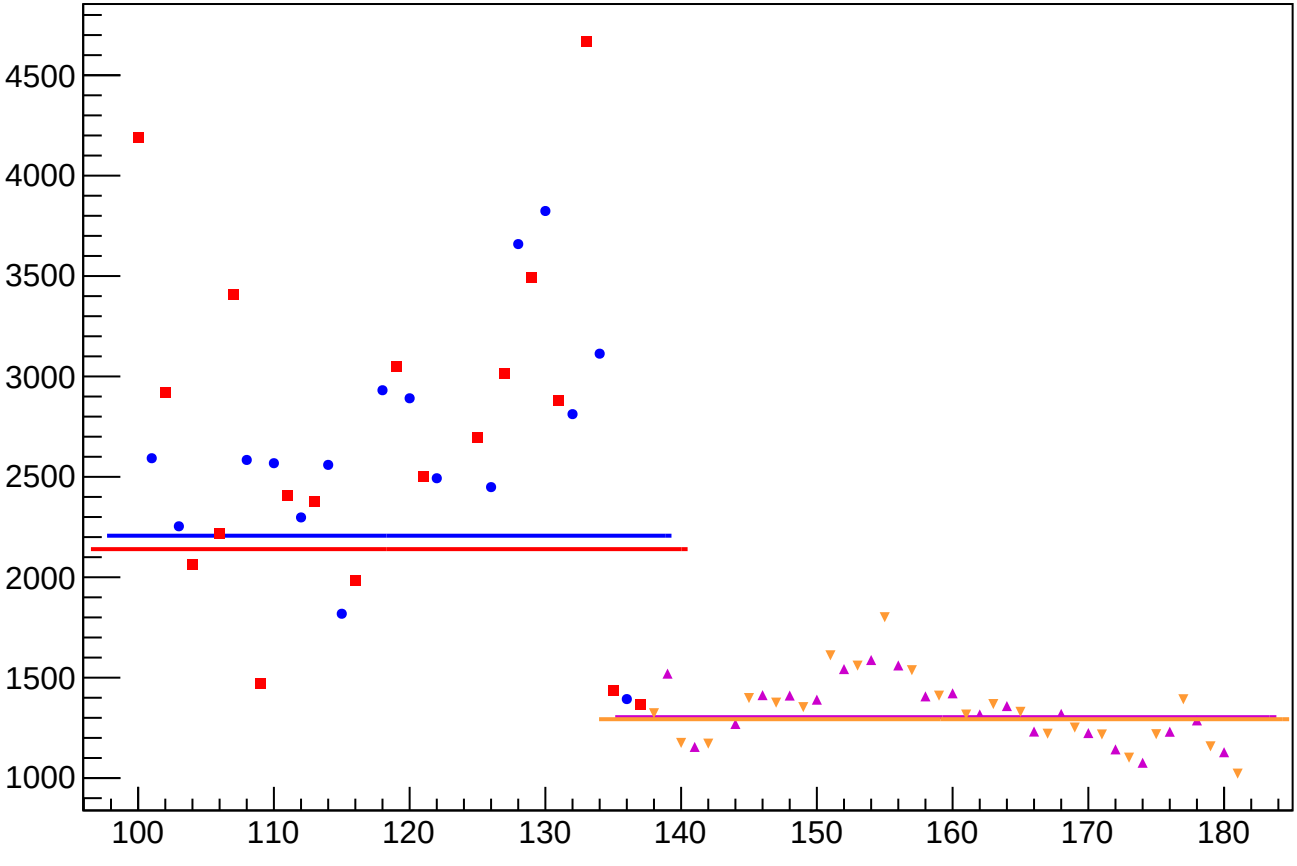
Right: -103.153+/-604.221 $\chi^2$/NDF: 42.0/33

In: 178.171+/-297.005 $\chi^2$/NDF:46.5/36

Out: -907.579+/-293.036 $\chi^2$/NDF:86.7/39

All: -372.006+/-208.597 $\chi^2$/NDF: 140.0/76

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 2206.918+/-0.610 $\chi^2$/NDF: 1249024.4/15

Left Out: 1293.151+/-0.221 $\chi^2$/NDF:564542.3/21

Right Out: 2140.060+/-0.599 $\chi^2$/NDF: 1448366.8/17

Left In: 1303.359+/-0.224 $\chi^2$/NDF:423726.8/20

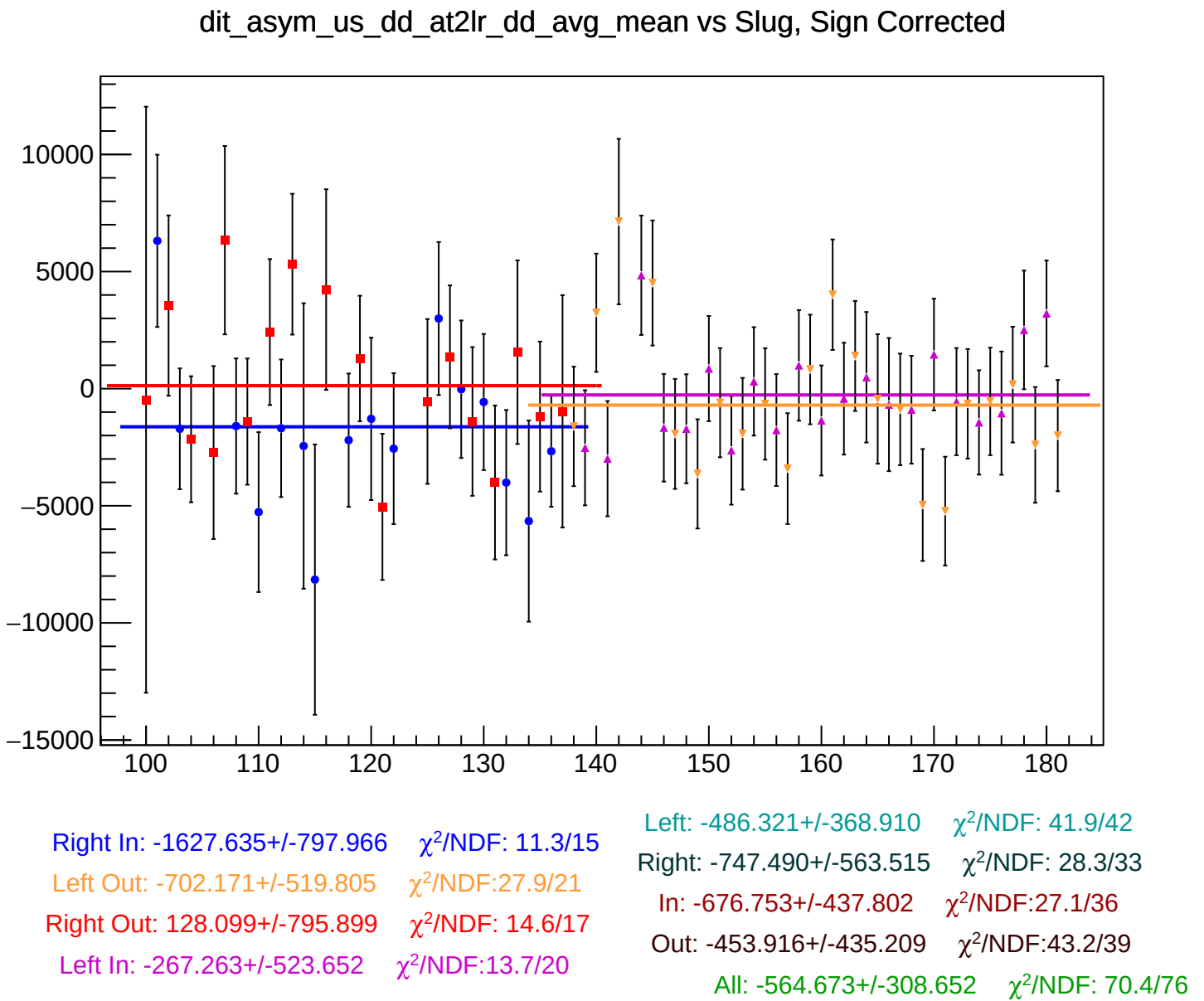
Left: 1298.189+/-0.157 $\chi^2$/NDF: 989323.7/42

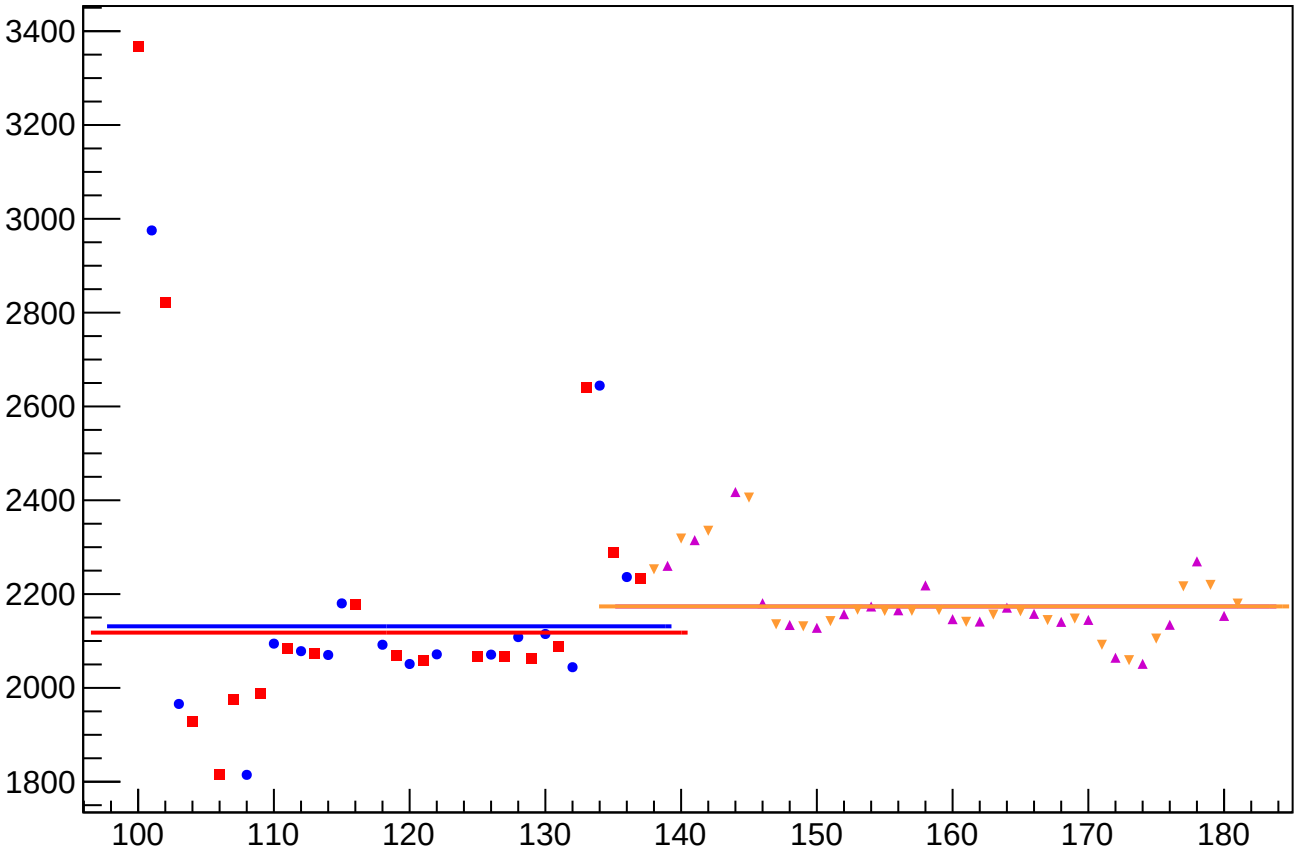
Right: 2172.900+/-0.427 $\chi^2$/NDF: 2703511.1/33

In: 1410.596+/-0.210 $\chi^2$/NDF:3608878.0/36

Out: 1394.505+/-0.207 $\chi^2$/NDF:3772895.3/39

All: 1402.442+/-0.148 $\chi^2$/NDF: 7384747.9/76


dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: -1627.635+/-797.966 χ²/NDF: 11.3/15
Left Out: -702.171+/-519.805 χ²/NDF:27.9/21
Right Out: 128.099+/-795.899 χ²/NDF: 14.6/17
Left In: -267.263+/-523.652 χ²/NDF:13.7/20
Left: -486.321+/-368.910 χ²/NDF: 41.9/42
Right: -747.490+/-563.515 χ²/NDF: 28.3/33
In: -676.753+/-437.802 χ²/NDF:27.1/36
Out: -453.916+/-435.209 χ²/NDF:43.2/39
All: -564.673+/-308.652 χ²/NDF: 70.4/76




Right In: 2131.298+/-0.564 $\chi^2$/NDF: 175943.3/15

Left Out: 2173.733+/-0.368 $\chi^2$/NDF:40846.2/21

Right Out: 2117.868+/-0.563 $\chi^2$/NDF: 163622.7/17

Left In: 2173.569+/-0.370 $\chi^2$/NDF:45129.4/20

Left: 2173.652+/-0.261 $\chi^2$/NDF: 85975.7/42

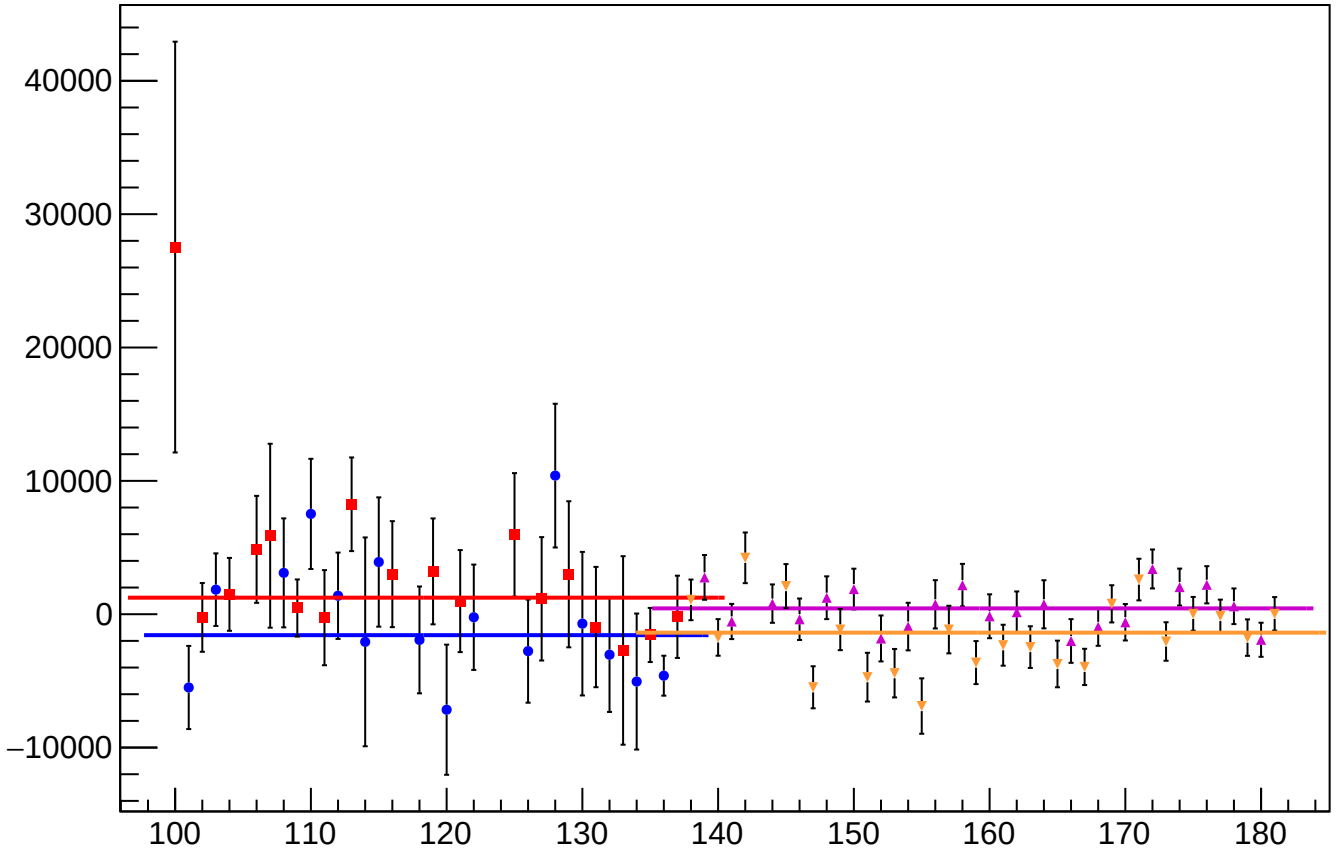
Right: 2124.565+/-0.398 $\chi^2$/NDF: 339850.1/33

In: 2160.845+/-0.310 $\chi^2$/NDF:224995.7/36

Out: 2157.029+/-0.308 $\chi^2$/NDF:211376.4/39

All: 2158.926+/-0.218 $\chi^2$/NDF: 436448.5/76

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -1571.073+/-859.754 $\chi^2$/NDF: 22.6/15

Left Out: -1383.087+/-324.067 $\chi^2$/NDF:56.7/21

Right Out: 1241.008+/-819.775 $\chi^2$/NDF: 13.1/17

Left In: 436.604+/-330.392 $\chi^2$/NDF:21.9/20

Left: -490.825+/-231.354 $\chi^2$/NDF: 94.0/42

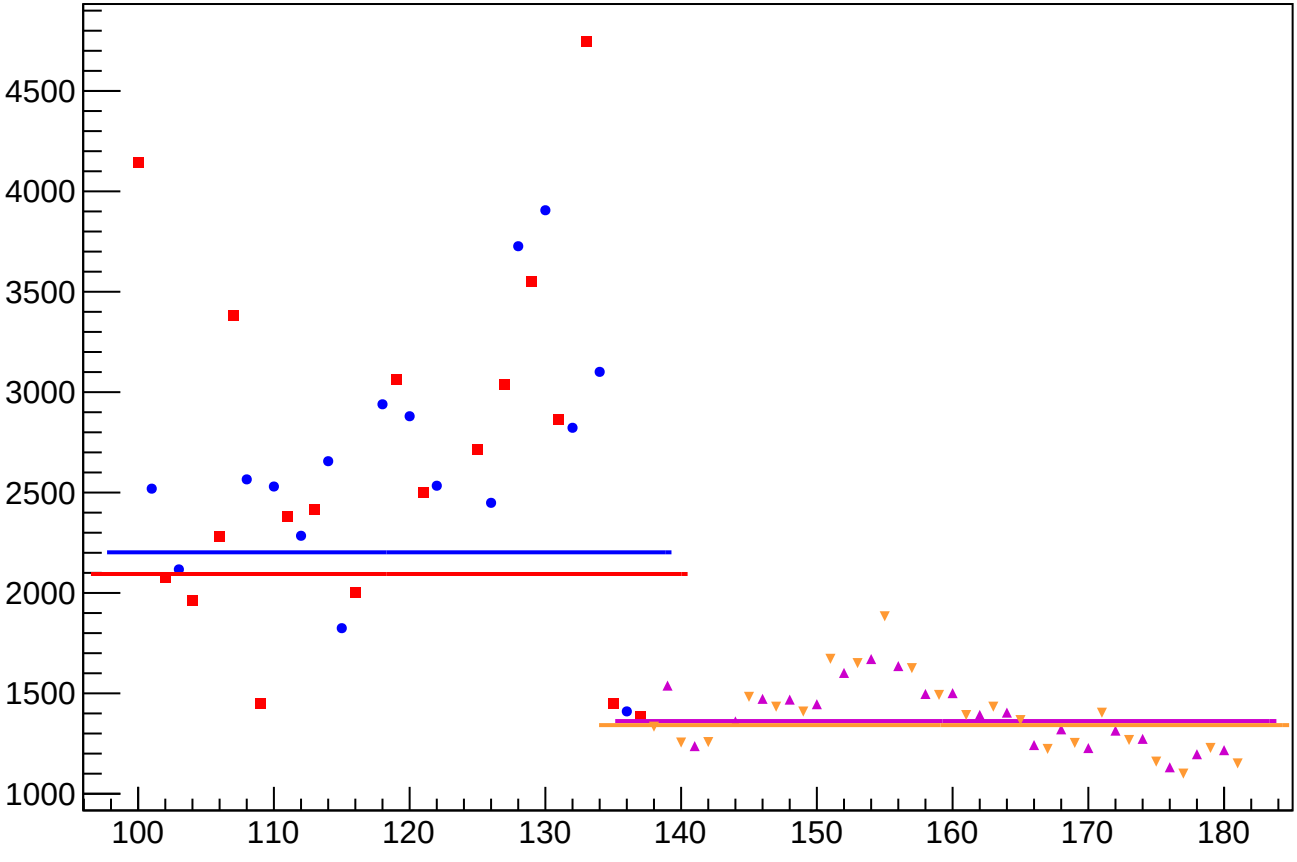
Right: -98.133+/-593.299 $\chi^2$/NDF: 41.3/33

In: 178.268+/-308.404 $\chi^2$/NDF:49.2/36

Out: -1028.437+/-301.373 $\chi^2$/NDF:78.6/39

All: -438.995+/-215.546 $\chi^2$/NDF: 135.7/76

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 2202.378+/-0.608 $\chi^2$/NDF: 1222965.0/15

Left Out: 1341.852+/-0.229 $\chi^2$/NDF:583864.6/21

Right Out: 2094.445+/-0.580 $\chi^2$/NDF: 1373676.8/17

Left In: 1362.123+/-0.234 $\chi^2$/NDF:392628.9/20

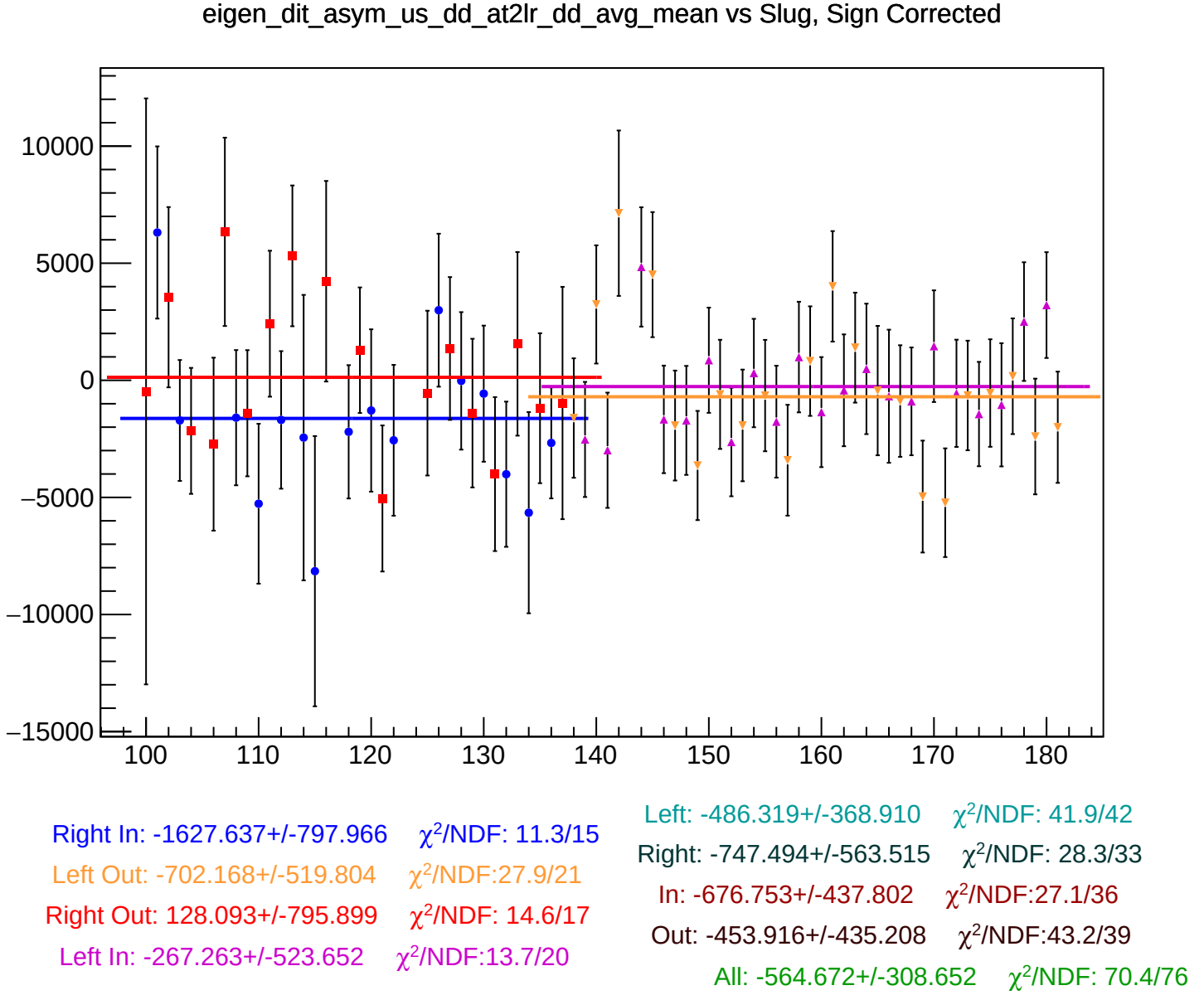
Left: 1351.792+/-0.164 $\chi^2$/NDF: 980330.5/42

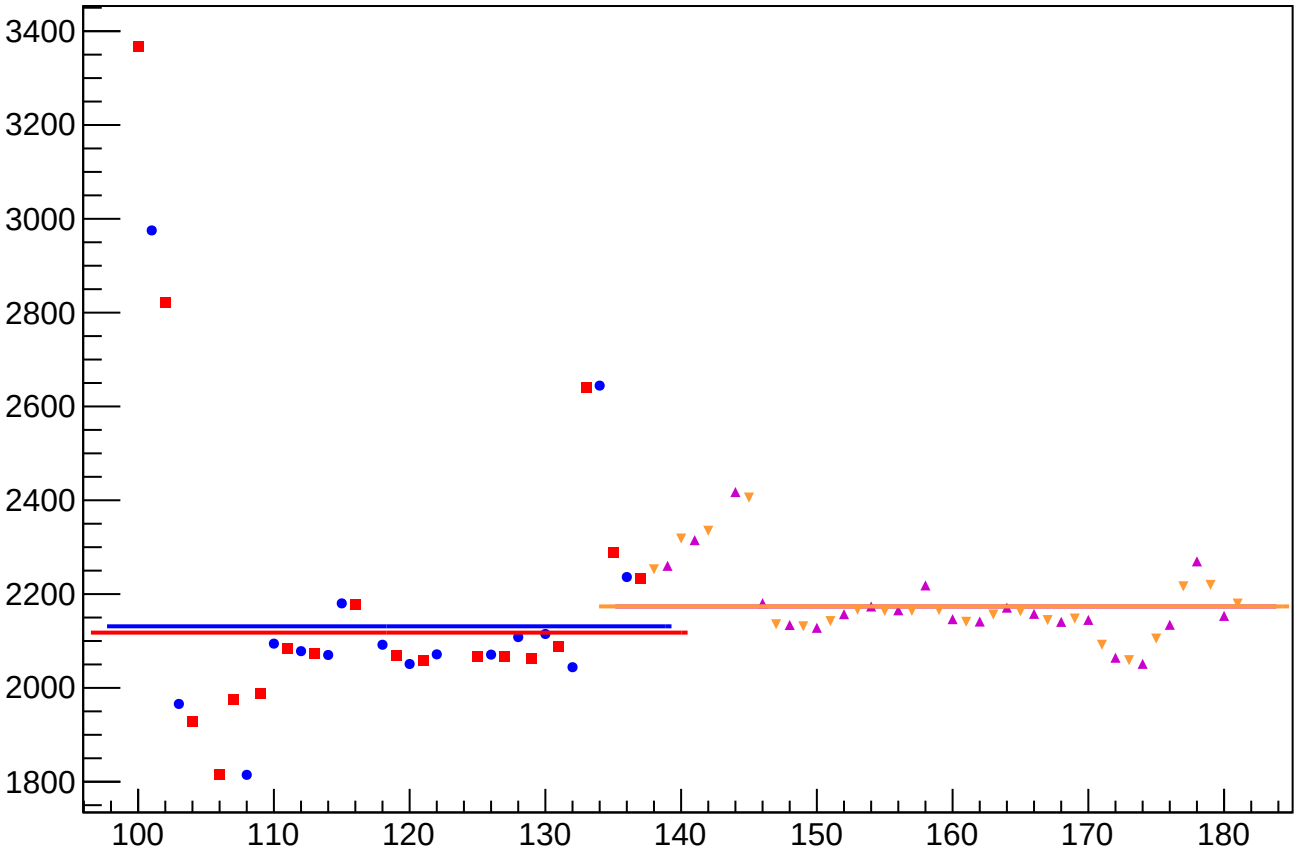
Right: 2145.844+/-0.420 $\chi^2$/NDF: 2613152.0/33

In: 1470.242+/-0.218 $\chi^2$/NDF:3280099.8/36

Out: 1443.566+/-0.213 $\chi^2$/NDF:3415350.2/39

All: 1456.597+/-0.152 $\chi^2$/NDF: 6703104.0/76


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: -1627.637+/-797.966 χ²/NDF: 11.3/15
Left Out: -702.168+/-519.804 χ²/NDF:27.9/21
Right Out: 128.093+/-795.899 χ²/NDF: 14.6/17
Left In: -267.263+/-523.652 χ²/NDF:13.7/20
Left: -486.319+/-368.910 χ²/NDF: 41.9/42
Right: -747.494+/-563.515 χ²/NDF: 28.3/33
In: -676.753+/-437.802 χ²/NDF:27.1/36
Out: -453.916+/-435.208 χ²/NDF:43.2/39
All: -564.672+/-308.652 χ²/NDF: 70.4/76




Right In: 2131.298+/-0.564 $\chi^2$/NDF: 175943.3/15

Left Out: 2173.733+/-0.368 $\chi^2$/NDF:40846.3/21

Right Out: 2117.868+/-0.563 $\chi^2$/NDF: 163622.6/17

Left In: 2173.569+/-0.370 $\chi^2$/NDF:45129.4/20

Left: 2173.651+/-0.261 $\chi^2$/NDF: 85975.8/42

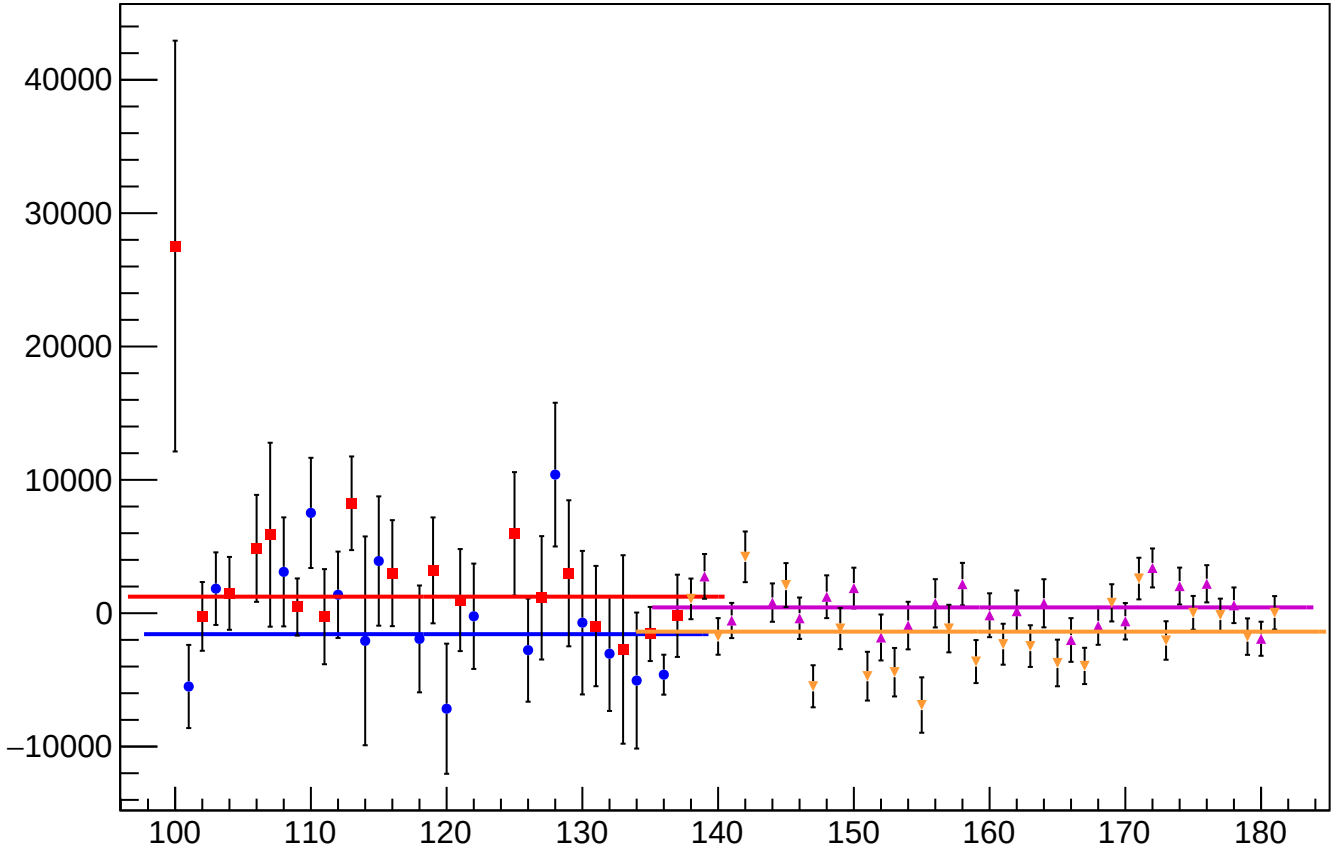
Right: 2124.565+/-0.398 $\chi^2$/NDF: 339849.9/33

In: 2160.845+/-0.310 $\chi^2$/NDF:224995.6/36

Out: 2157.029+/-0.308 $\chi^2$/NDF:211376.3/39

All: 2158.925+/-0.218 $\chi^2$/NDF: 436448.3/76

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1571.058+/-859.757 $\chi^2$/NDF: 22.6/15

Left Out: -1383.089+/-324.067 $\chi^2$/NDF:56.7/21

Right Out: 1241.023+/-819.778 $\chi^2$/NDF: 13.1/17

Left In: 436.600+/-330.391 $\chi^2$/NDF:21.9/20

Left: -490.827+/-231.354 $\chi^2$/NDF: 94.0/42

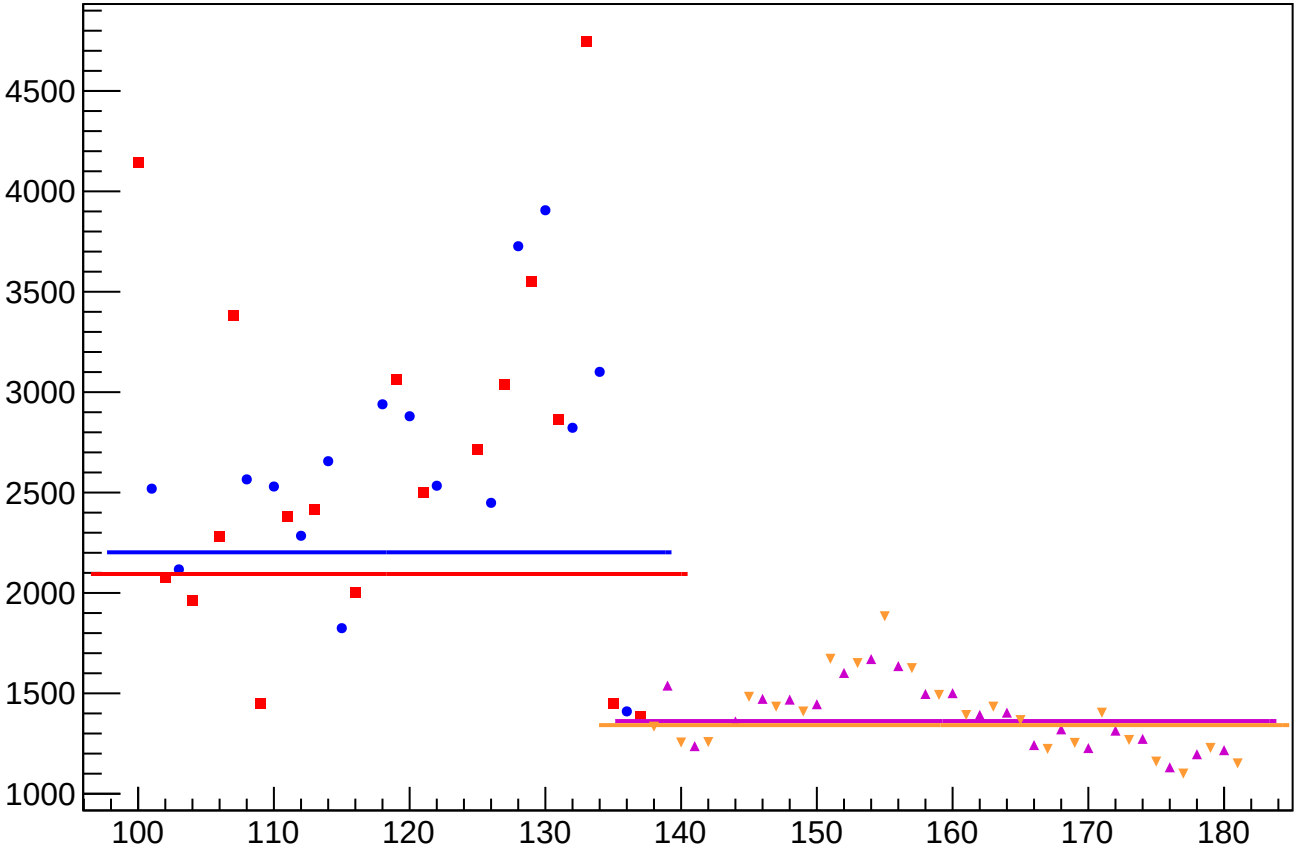
Right: -98.119+/-593.301 $\chi^2$/NDF: 41.3/33

In: 178.269+/-308.403 $\chi^2$/NDF:49.2/36

Out: -1028.439+/-301.374 $\chi^2$/NDF:78.6/39

All: -438.995+/-215.546 $\chi^2$/NDF: 135.7/76

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 2202.391+/-0.608 $\chi^2$/NDF: 1222905.3/15

Left Out: 1341.852+/-0.229 $\chi^2$/NDF:583863.0/21

Right Out: 2094.457+/-0.580 $\chi^2$/NDF: 1373629.6/17

Left In: 1362.121+/-0.234 $\chi^2$/NDF:392638.2/20

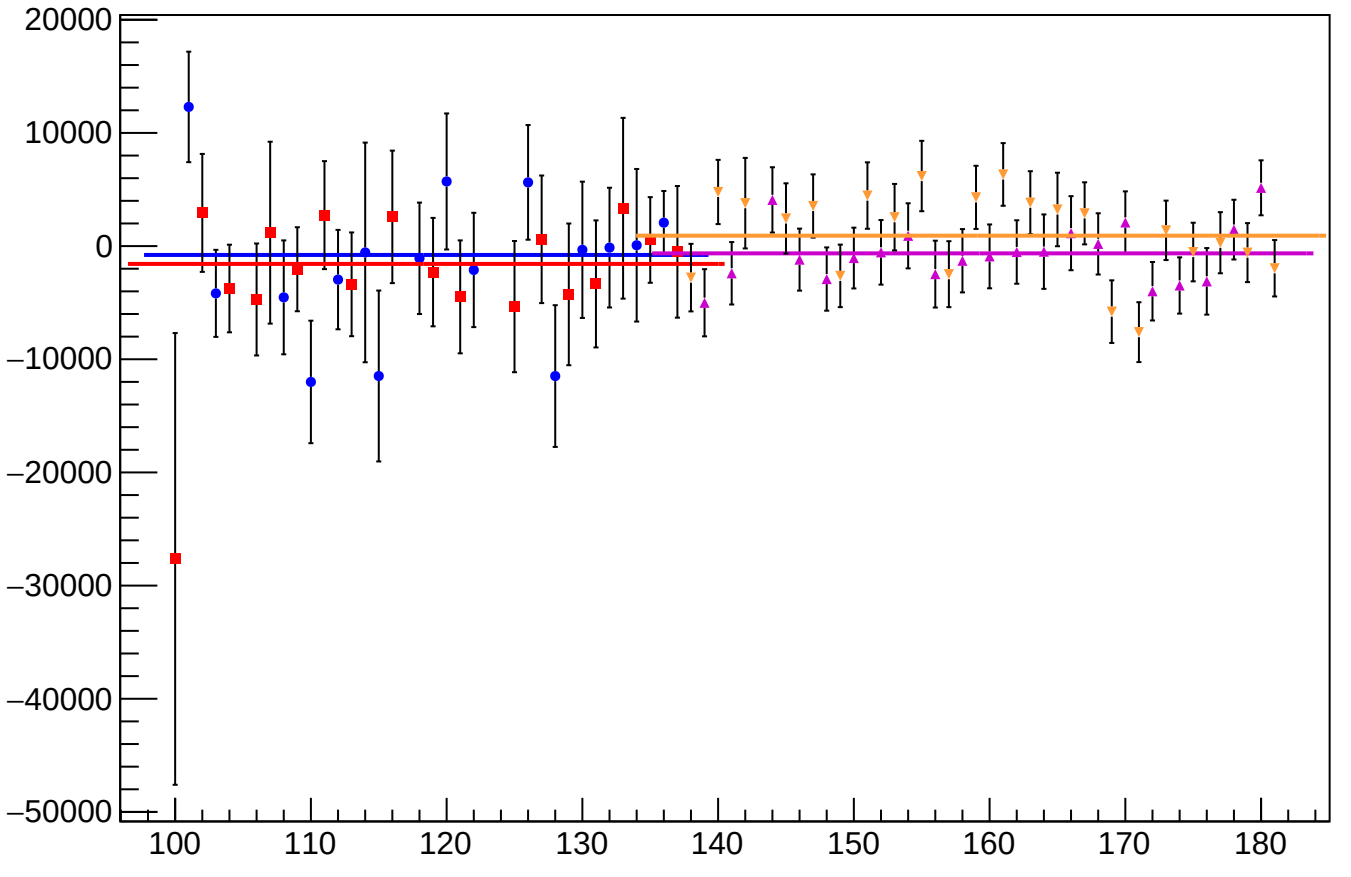
Left: 1351.791+/-0.164 $\chi^2$/NDF: 980337.6/42

Right: 2145.856+/-0.420 $\chi^2$/NDF: 2613045.0/33

In: 1470.241+/-0.218 $\chi^2$/NDF:3280095.1/36

Out: 1443.567+/-0.213 $\chi^2$/NDF:3415339.6/39

All: 1456.597+/-0.152 $\chi^2$/NDF: 6703087.9/76




Right In: -781.619+/-1241.711 $\chi^2$/NDF: 21.9/15

Left Out: 921.437+/-603.731 $\chi^2$/NDF:38.4/21

Right Out: -1574.673+/-1218.961 $\chi^2$/NDF: 6.7/17

Left In: -642.613+/-608.671 $\chi^2$/NDF:18.1/20

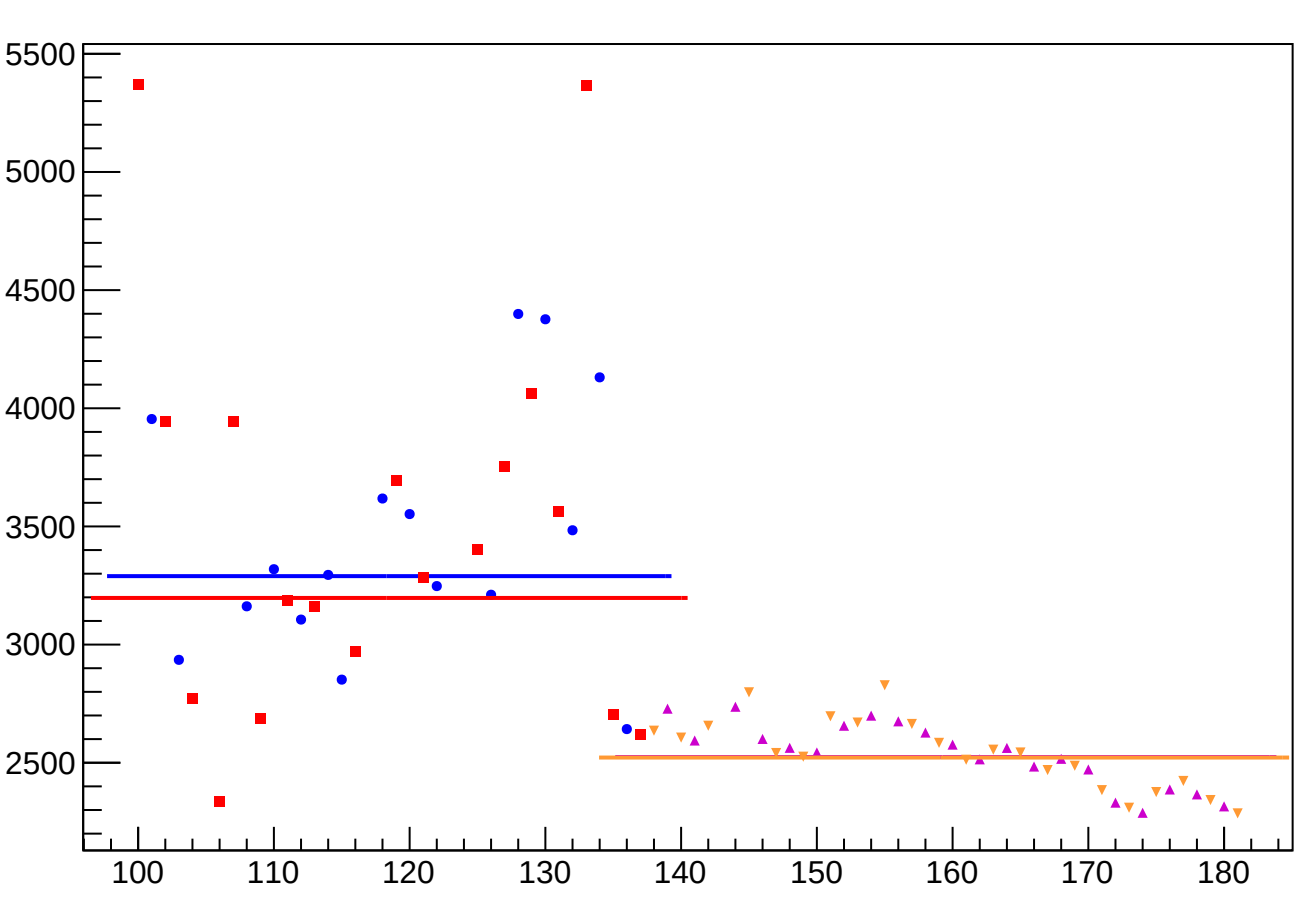
Left: 145.784+/-428.638 $\chi^2$/NDF: 59.9/42

Right: -1185.478+/-869.867 $\chi^2$/NDF: 28.8/33

In: -669.543+/-546.540 $\chi^2$/NDF:40.0/36

Out: 429.742+/-541.010 $\chi^2$/NDF:48.5/39

All: -114.311+/-384.492 $\chi^2$/NDF: 90.6/76




Right In: 3289.690+/-0.878 $\chi^2$/NDF: 347594.0/15

Left Out: 2522.001+/-0.427 $\chi^2$/NDF:116638.5/21

Right Out: 3197.375+/-0.862 $\chi^2$/NDF: 499934.1/17

Left In: 2524.217+/-0.430 $\chi^2$/NDF:100964.3/20

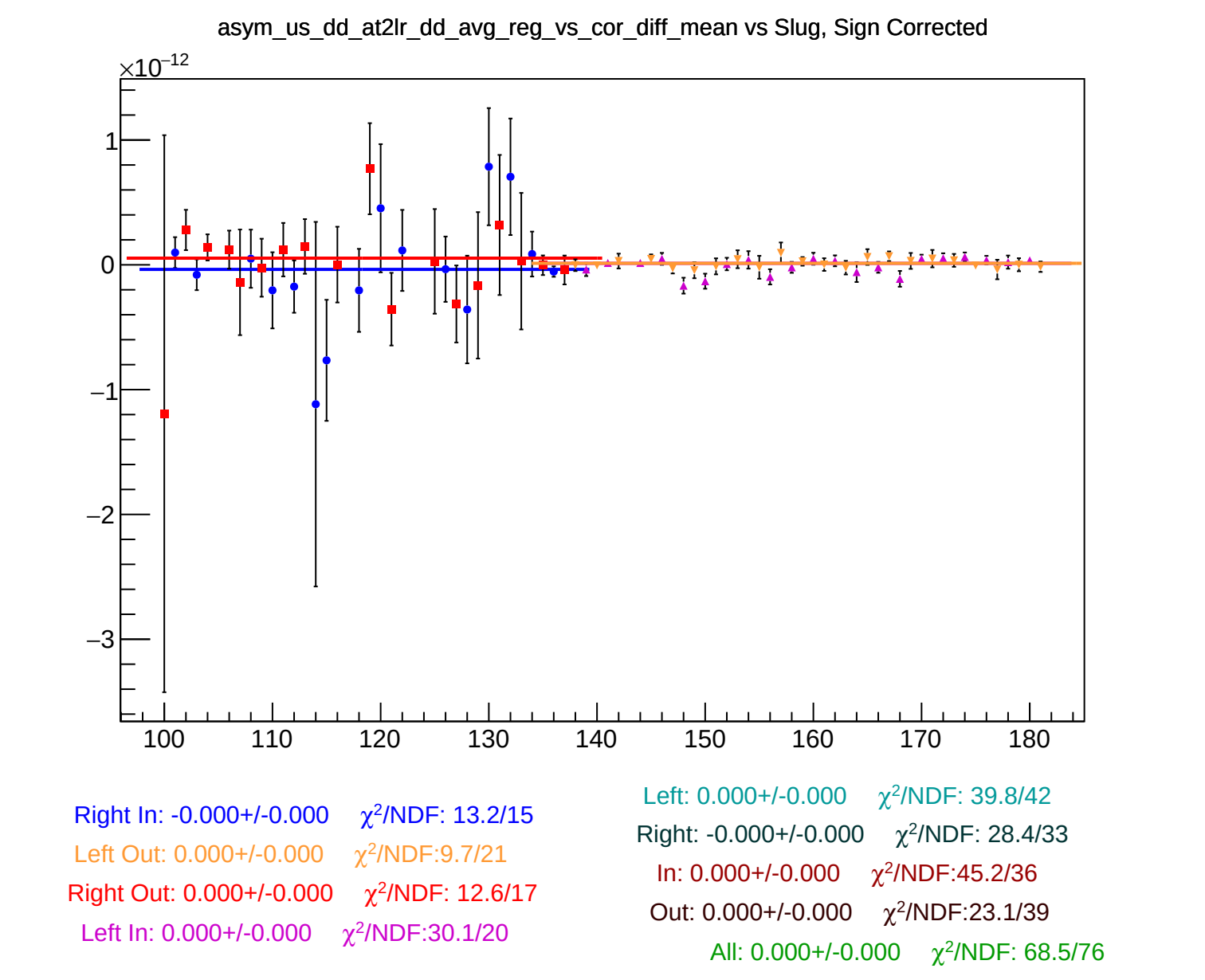
Left: 2523.100+/-0.303 $\chi^2$/NDF: 217616.2/42

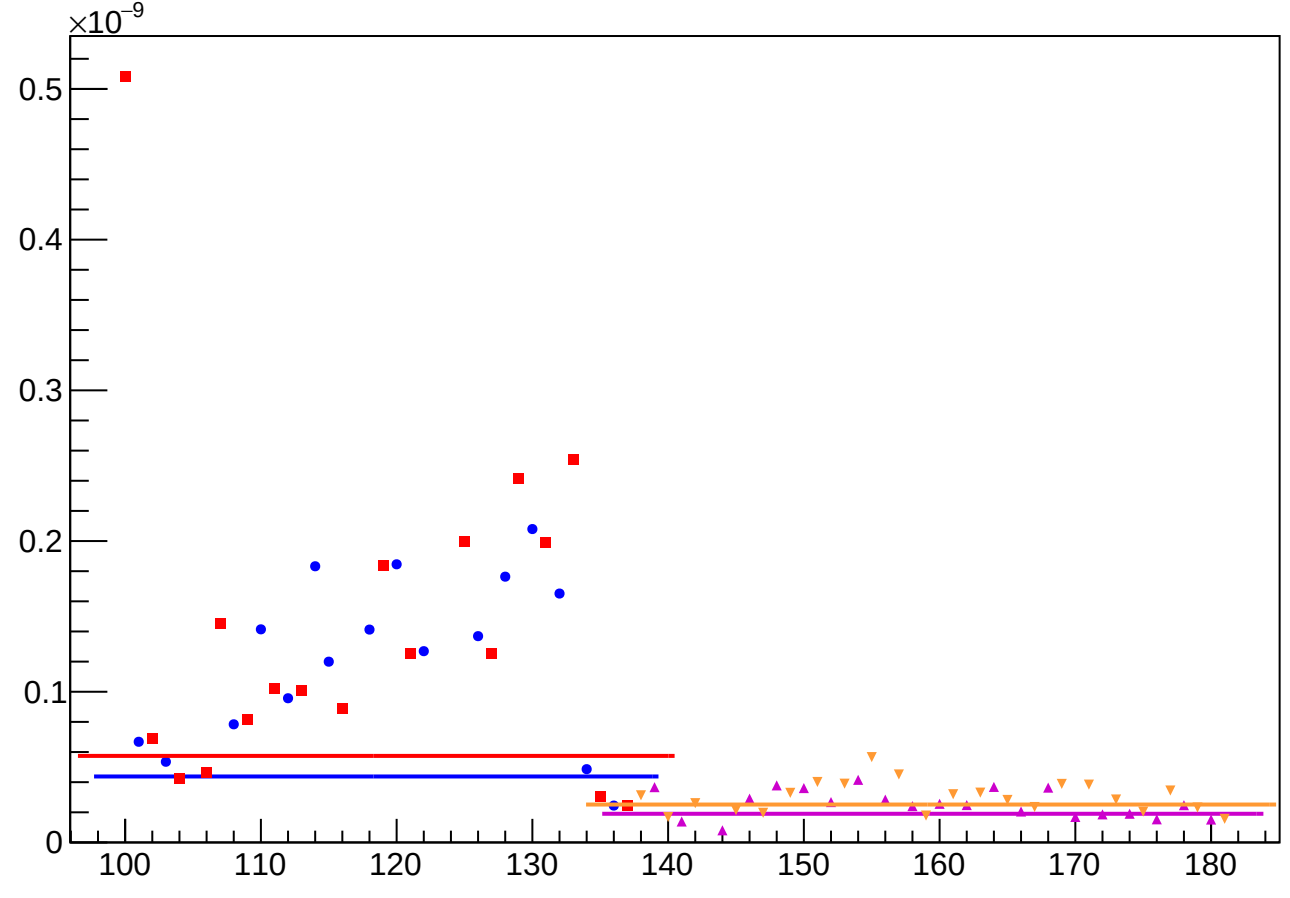
Right: 3242.678+/-0.615 $\chi^2$/NDF: 853157.4/33

In: 2672.514+/-0.386 $\chi^2$/NDF:1061372.0/36

Out: 2655.042+/-0.383 $\chi^2$/NDF:1109602.7/39

All: 2663.689+/-0.272 $\chi^2$/NDF: 2172007.0/76


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 13.2/15
Left Out: 0.000+/-0.000 χ²/NDF:9.7/21
Right Out: 0.000+/-0.000 χ²/NDF: 12.6/17
Left In: 0.000+/-0.000 χ²/NDF:30.1/20
Left: 0.000+/-0.000 χ²/NDF: 39.8/42
Right: -0.000+/-0.000 χ²/NDF: 28.4/33
In: 0.000+/-0.000 χ²/NDF:45.2/36
Out: 0.000+/-0.000 χ²/NDF:23.1/39
All: 0.000+/-0.000 χ²/NDF: 68.5/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2227887.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1322240.3/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2086696.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2187571.4/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3926885.9/42

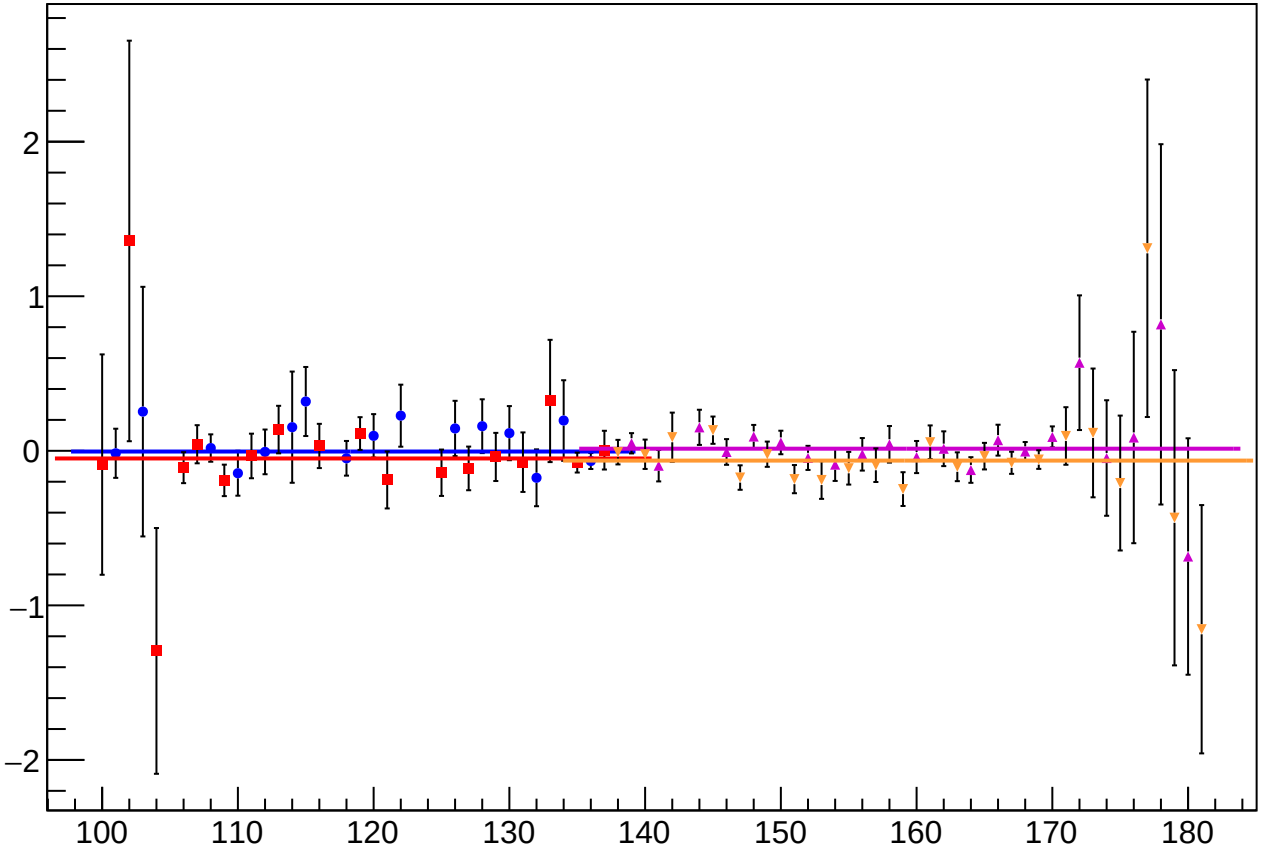
Right: 0.000+/-0.000 $\chi^2$/NDF: 4436407.3/33

In: 0.000+/-0.000 $\chi^2$/NDF:5391018.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4458673.3/39

All: 0.000+/-0.000 $\chi^2$/NDF: 10325323.5/76

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.032 $\chi^2$/NDF: 10.3/15

Left Out: -0.063+/-0.022 $\chi^2$/NDF:20.8/21

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.014+/-0.021 $\chi^2$/NDF:13.8/20

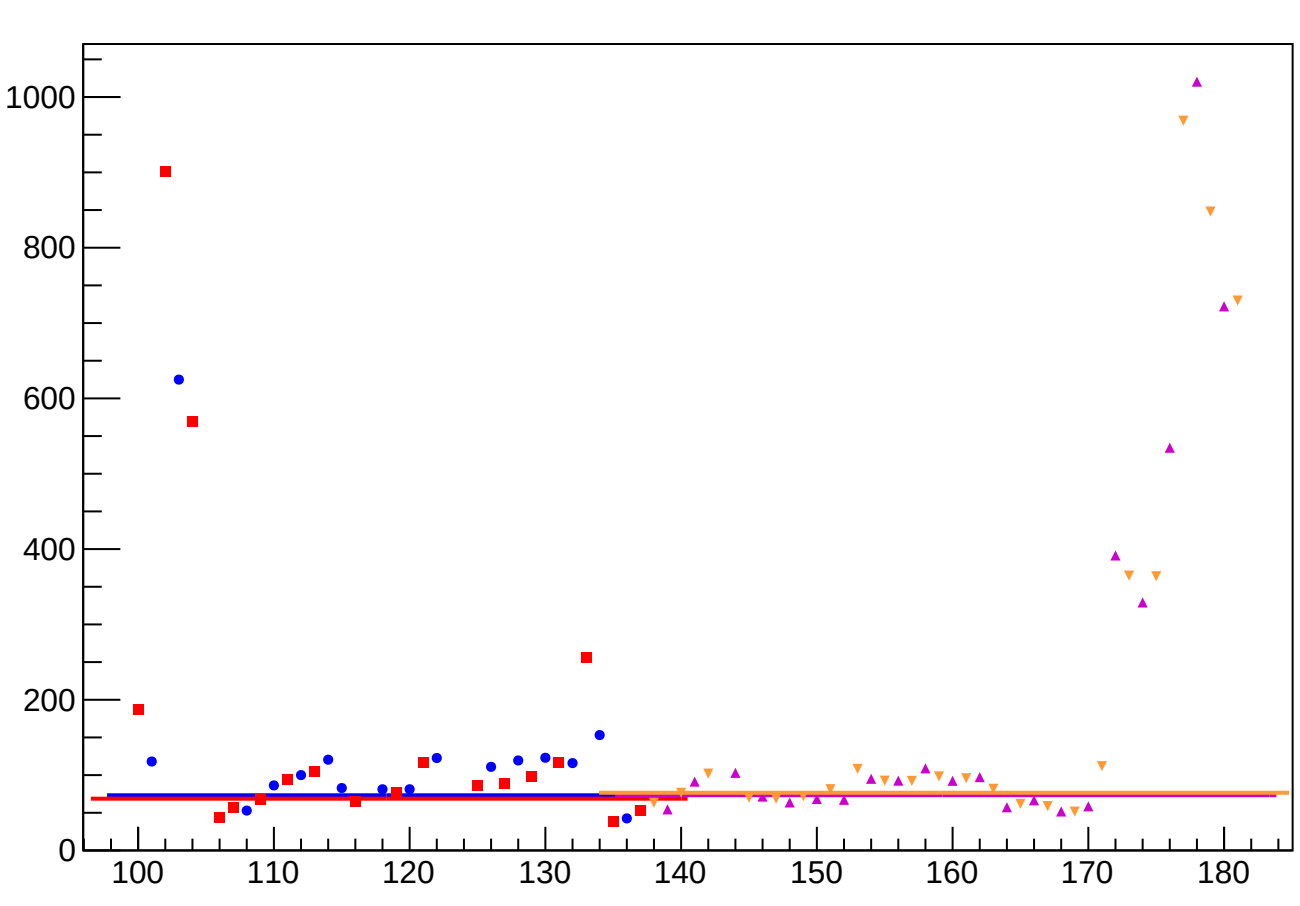
Left: -0.023+/-0.015 $\chi^2$/NDF: 40.9/42

Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.008+/-0.018 $\chi^2$/NDF:24.3/36

Out: -0.059+/-0.018 $\chi^2$/NDF:33.9/39

All: -0.024+/-0.013 $\chi^2$/NDF: 65.2/76




Right In: 73.234+/-0.023 $\chi^2$/NDF: 2854601.2/15

Left Out: 76.590+/-0.016 $\chi^2$/NDF:6907122.1/21

Right Out: 68.724+/-0.022 $\chi^2$/NDF: 3331744.2/17

Left In: 73.356+/-0.015 $\chi^2$/NDF:7011225.4/20

Left: 74.900+/-0.011 $\chi^2$/NDF: 13940667.2/42

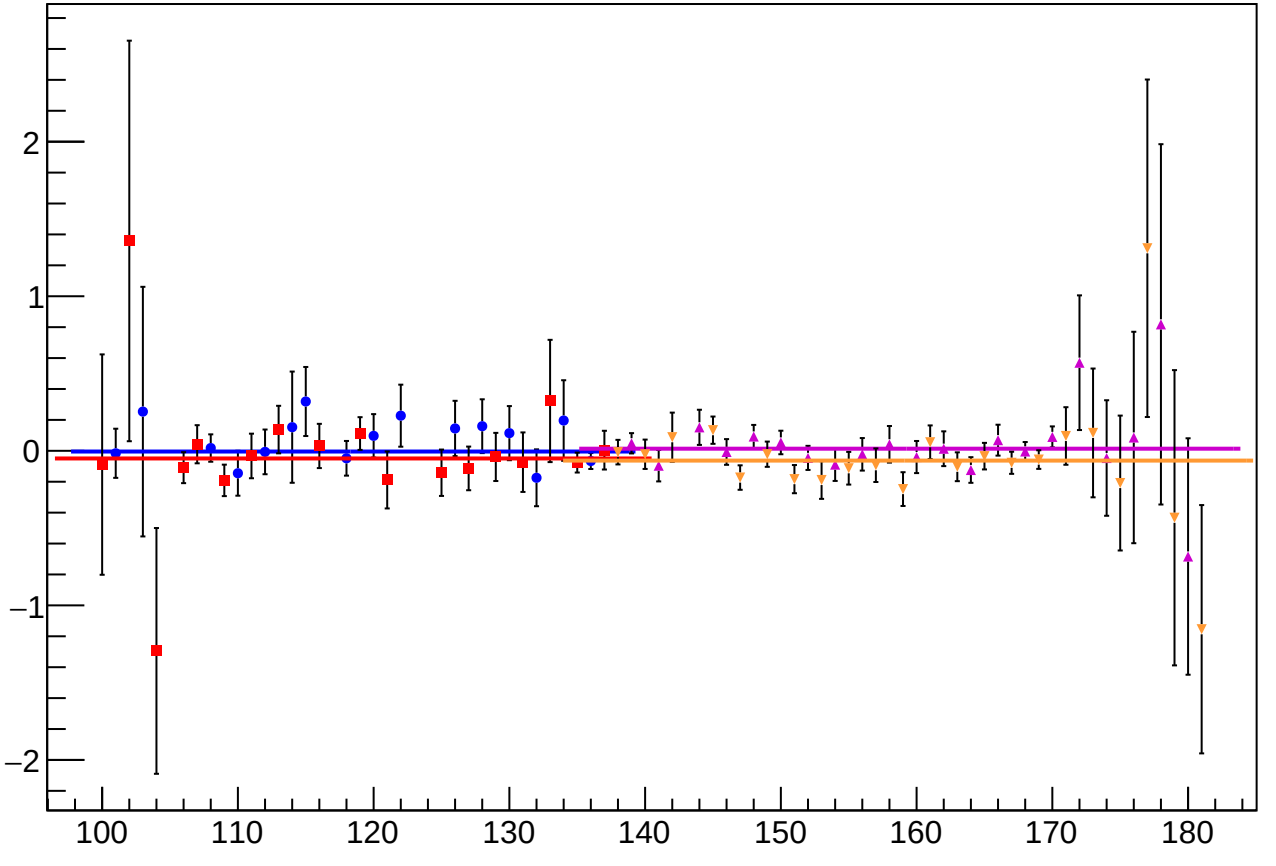
Right: 70.939+/-0.016 $\chi^2$/NDF: 6206281.8/33

In: 73.320+/-0.013 $\chi^2$/NDF:9865846.6/36

Out: 74.008+/-0.013 $\chi^2$/NDF:10321797.4/39

All: 73.655+/-0.009 $\chi^2$/NDF: 20189120.0/76

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.032 $\chi^2$/NDF: 10.3/15

Left Out: -0.063+/-0.022 $\chi^2$/NDF:20.8/21

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.014+/-0.021 $\chi^2$/NDF:13.8/20

Left: -0.023+/-0.015 $\chi^2$/NDF: 40.9/42

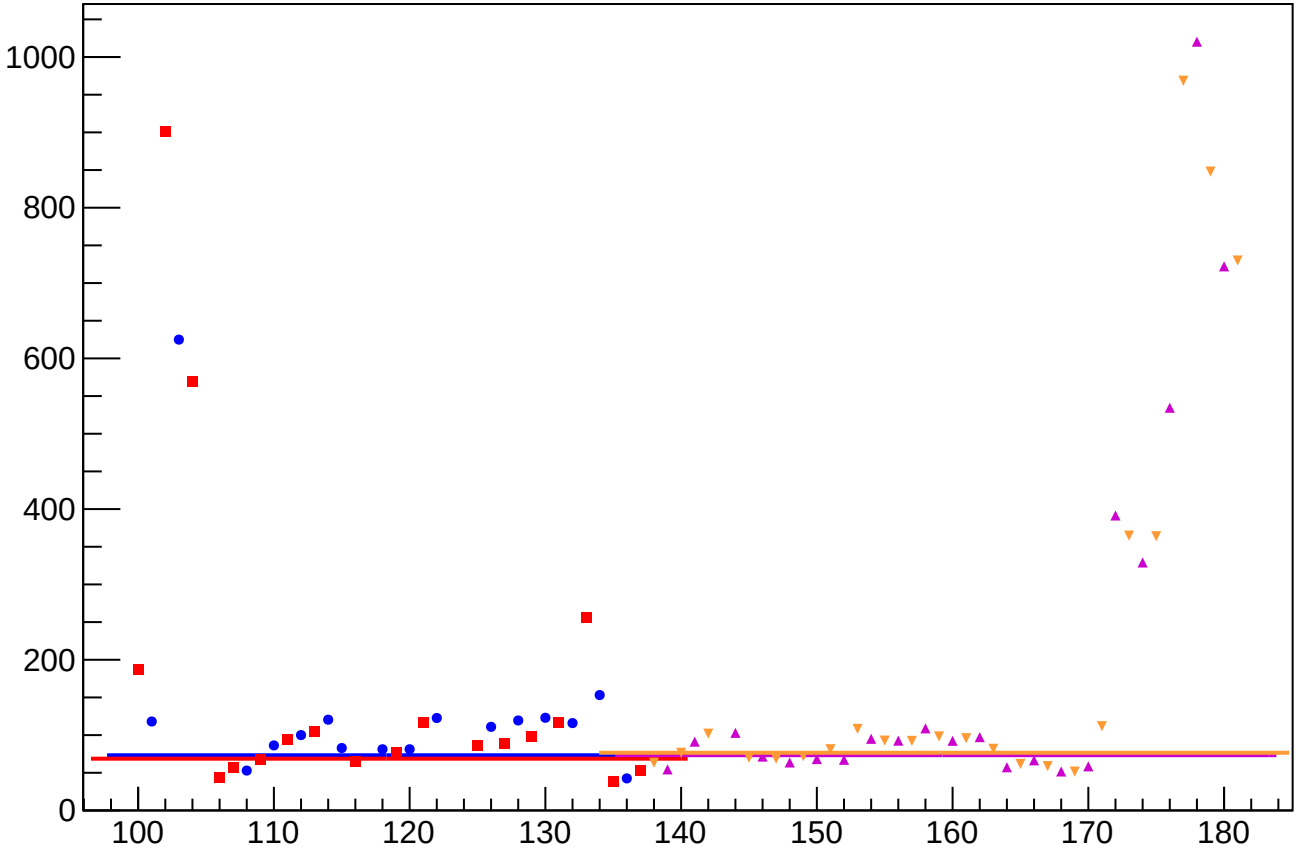
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.008+/-0.018 $\chi^2$/NDF:24.3/36

Out: -0.059+/-0.018 $\chi^2$/NDF:33.9/39

All: -0.024+/-0.013 $\chi^2$/NDF: 65.2/76

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 73.234+/-0.023 $\chi^2$/NDF: 2854601.2/15

Left Out: 76.590+/-0.016 $\chi^2$/NDF:6907122.1/21

Right Out: 68.724+/-0.022 $\chi^2$/NDF: 3331744.2/17

Left In: 73.356+/-0.015 $\chi^2$/NDF:7011225.4/20

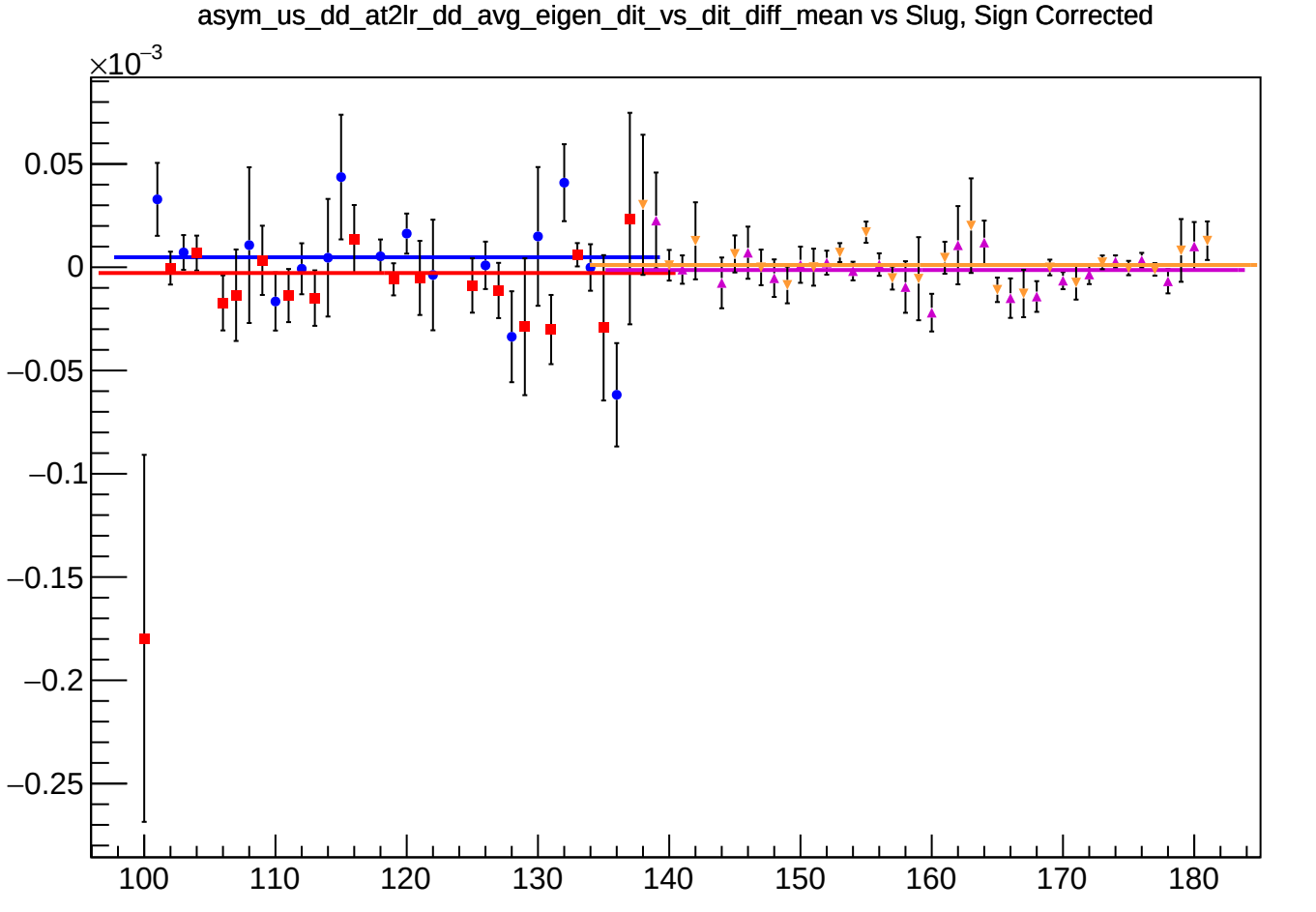
Left: 74.900+/-0.011 $\chi^2$/NDF: 13940667.2/42

Right: 70.939+/-0.016 $\chi^2$/NDF: 6206281.8/33

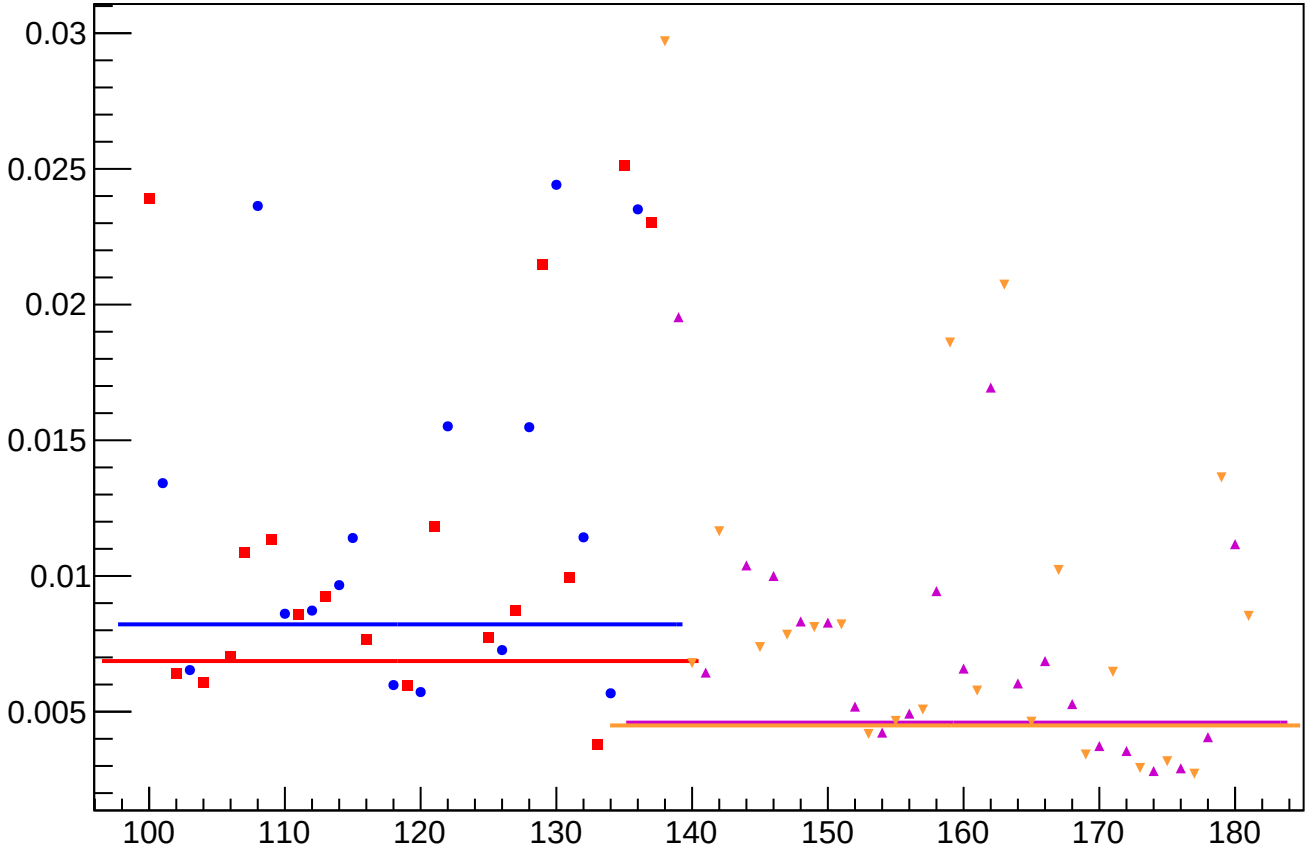
In: 73.320+/-0.013 $\chi^2$/NDF:9865846.6/36

Out: 74.008+/-0.013 $\chi^2$/NDF:10321797.4/39

All: 73.655+/-0.009 $\chi^2$/NDF: 20189120.0/76


asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 22.6/15
Left Out: 0.000+/-0.000 χ²/NDF:25.6/21
Right Out: -0.000+/-0.000 χ²/NDF: 16.8/17
Left In: -0.000+/-0.000 χ²/NDF:22.1/20
Left: -0.000+/-0.000 χ²/NDF: 49.5/42
Right: 0.000+/-0.000 χ²/NDF: 42.2/33
In: -0.000+/-0.000 χ²/NDF:47.4/36
Out: 0.000+/-0.000 χ²/NDF:44.0/39
All: -0.000+/-0.000 χ²/NDF: 91.8/76

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 2656170.2/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:8138098.3/21

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 2426444.0/17

Left In: 0.005+/-0.000 $\chi^2$/NDF:5856952.7/20

Left: 0.005+/-0.000 $\chi^2$/NDF: 14001332.5/42

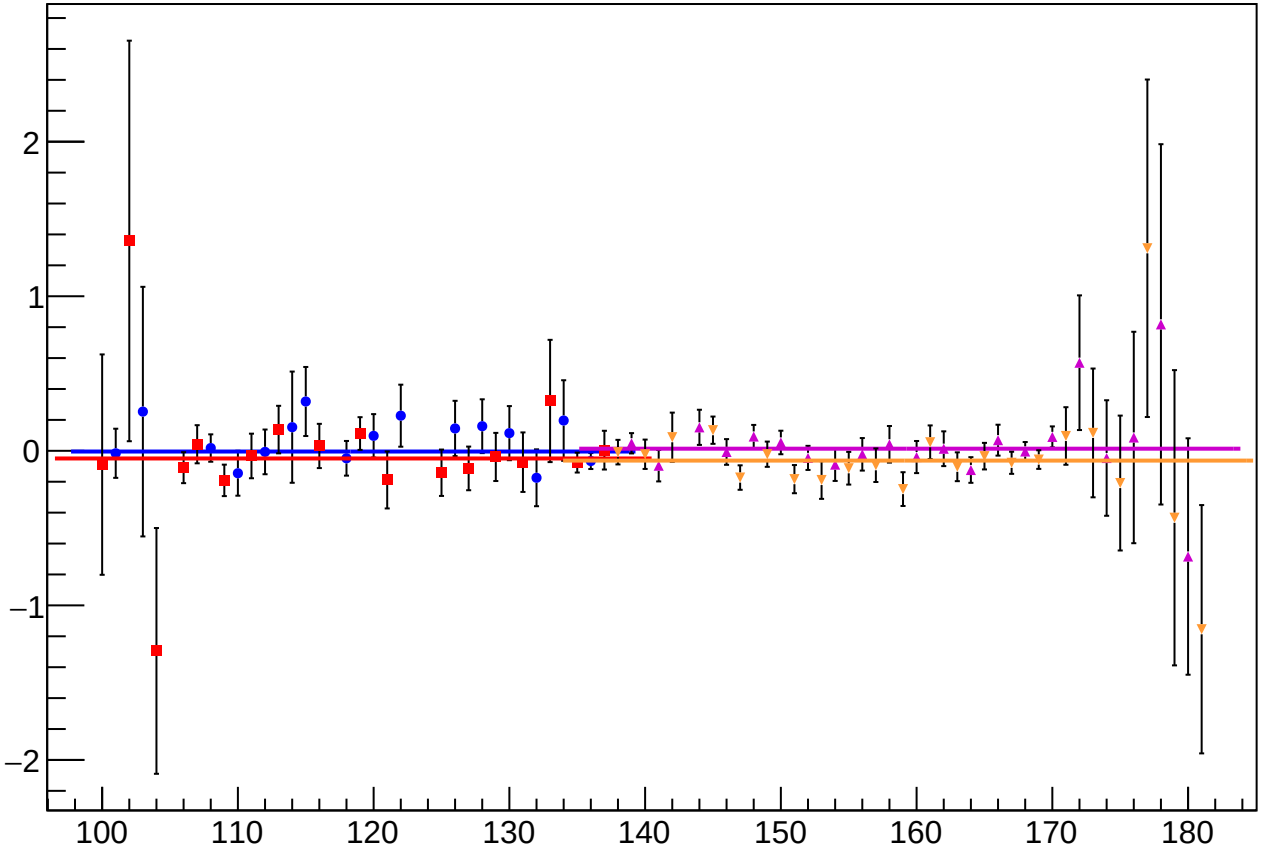
Right: 0.007+/-0.000 $\chi^2$/NDF: 5263403.5/33

In: 0.005+/-0.000 $\chi^2$/NDF:10386924.5/36

Out: 0.005+/-0.000 $\chi^2$/NDF:11733144.7/39

All: 0.005+/-0.000 $\chi^2$/NDF: 22141843.1/76

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.032 $\chi^2$/NDF: 10.3/15

Left Out: -0.063+/-0.022 $\chi^2$/NDF:20.8/21

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.014+/-0.021 $\chi^2$/NDF:13.8/20

Left: -0.023+/-0.015 $\chi^2$/NDF: 40.9/42

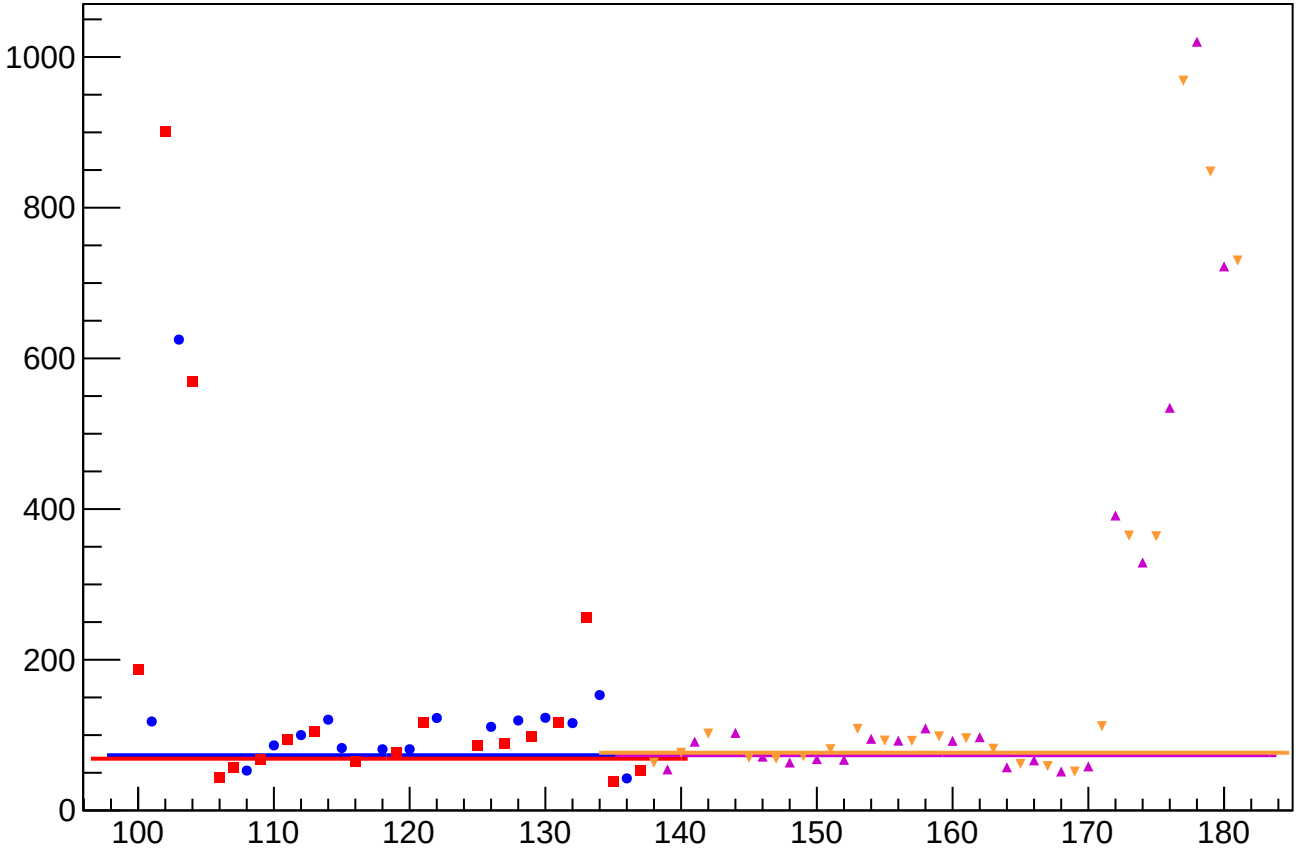
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.008+/-0.018 $\chi^2$/NDF:24.3/36

Out: -0.059+/-0.018 $\chi^2$/NDF:33.9/39

All: -0.024+/-0.013 $\chi^2$/NDF: 65.2/76

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 73.260+/-0.023 $\chi^2$/NDF: 2852306.8/15

Left Out: 76.590+/-0.016 $\chi^2$/NDF:6907034.8/21

Right Out: 68.713+/-0.022 $\chi^2$/NDF: 3332744.7/17

Left In: 73.357+/-0.015 $\chi^2$/NDF:7010946.6/20

Left: 74.900+/-0.011 $\chi^2$/NDF: 13940279.7/42

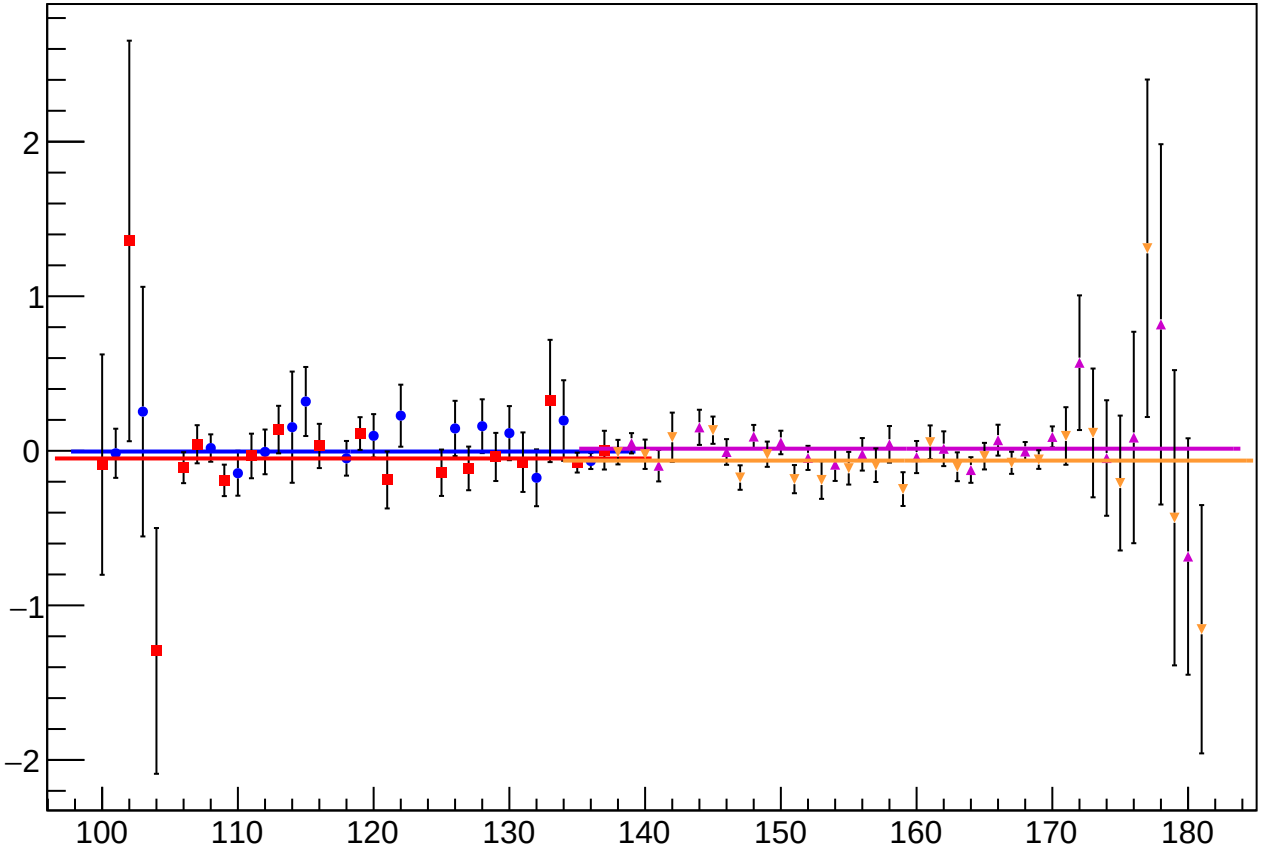
Right: 70.945+/-0.016 $\chi^2$/NDF: 6205307.5/33

In: 73.328+/-0.013 $\chi^2$/NDF:9863266.3/36

Out: 74.004+/-0.013 $\chi^2$/NDF:10322950.1/39

All: 73.657+/-0.009 $\chi^2$/NDF: 20187638.8/76

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.032 $\chi^2$/NDF: 10.3/15

Left Out: -0.063+/-0.022 $\chi^2$/NDF:20.8/21

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.014+/-0.021 $\chi^2$/NDF:13.8/20

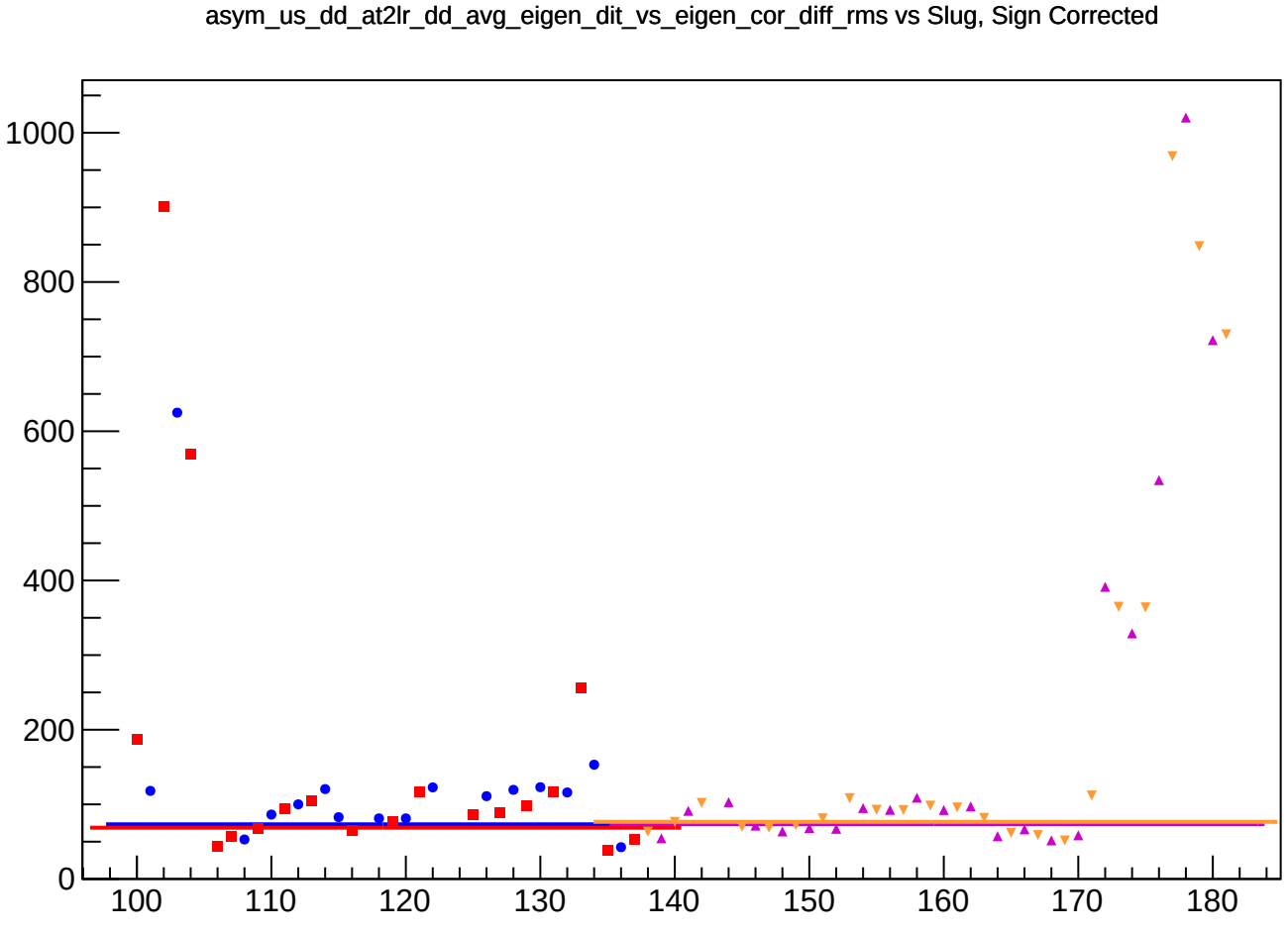
Left: -0.023+/-0.015 $\chi^2$/NDF: 40.9/42

Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.008+/-0.018 $\chi^2$/NDF:24.3/36

Out: -0.059+/-0.018 $\chi^2$/NDF:33.9/39

All: -0.024+/-0.013 $\chi^2$/NDF: 65.2/76




Right In: 73.260+/-0.023 $\chi^2$/NDF: 2852306.8/15

Left Out: 76.590+/-0.016 $\chi^2$/NDF:6907034.8/21

Right Out: 68.713+/-0.022 $\chi^2$/NDF: 3332744.7/17

Left In: 73.357+/-0.015 $\chi^2$/NDF:7010946.6/20

Left: 74.900+/-0.011 $\chi^2$/NDF: 13940279.7/42

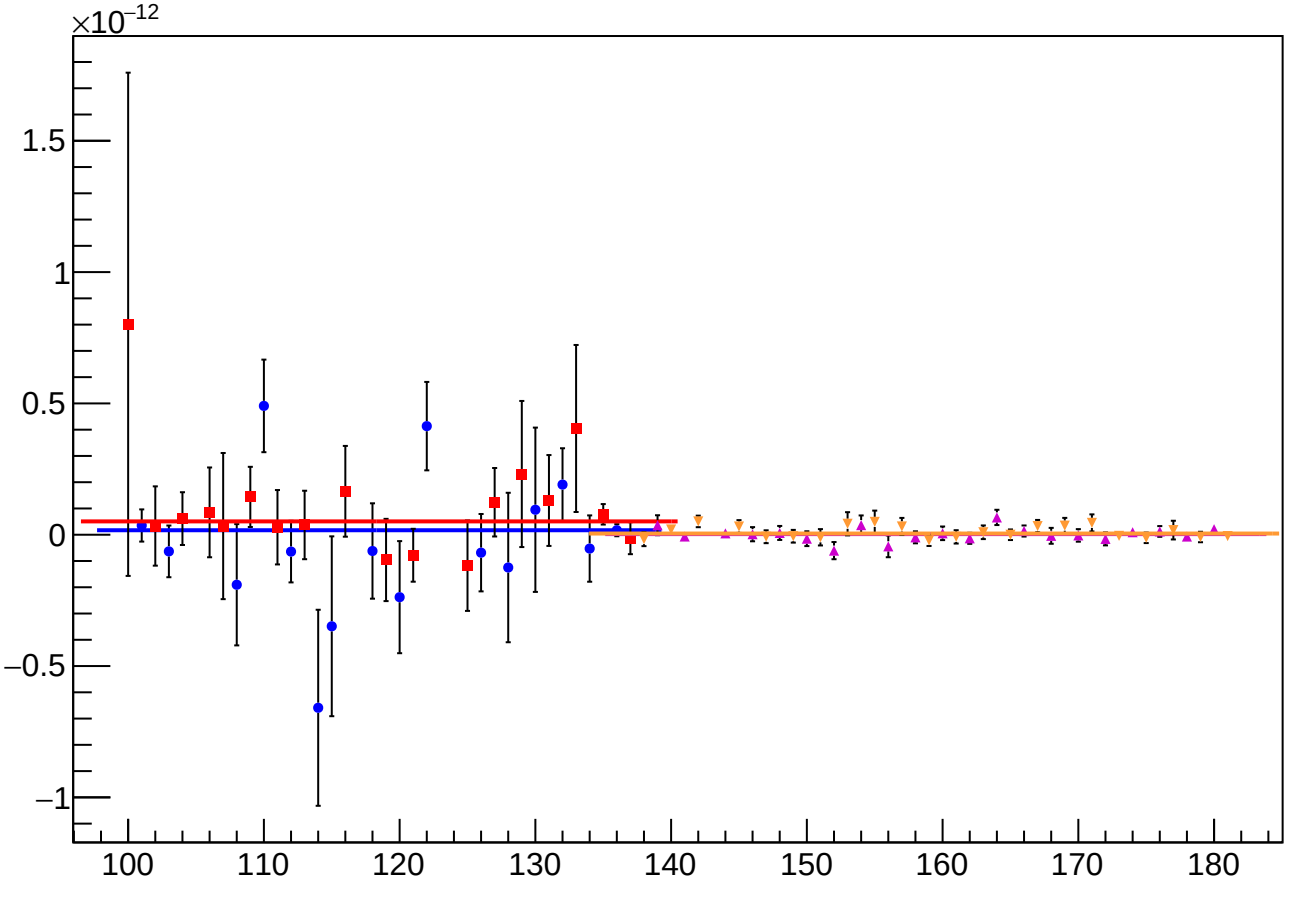
Right: 70.945+/-0.016 $\chi^2$/NDF: 6205307.5/33

In: 73.328+/-0.013 $\chi^2$/NDF:9863266.3/36

Out: 74.004+/-0.013 $\chi^2$/NDF:10322950.1/39

All: 73.657+/-0.009 $\chi^2$/NDF: 20187638.8/76

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.9/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.7/20

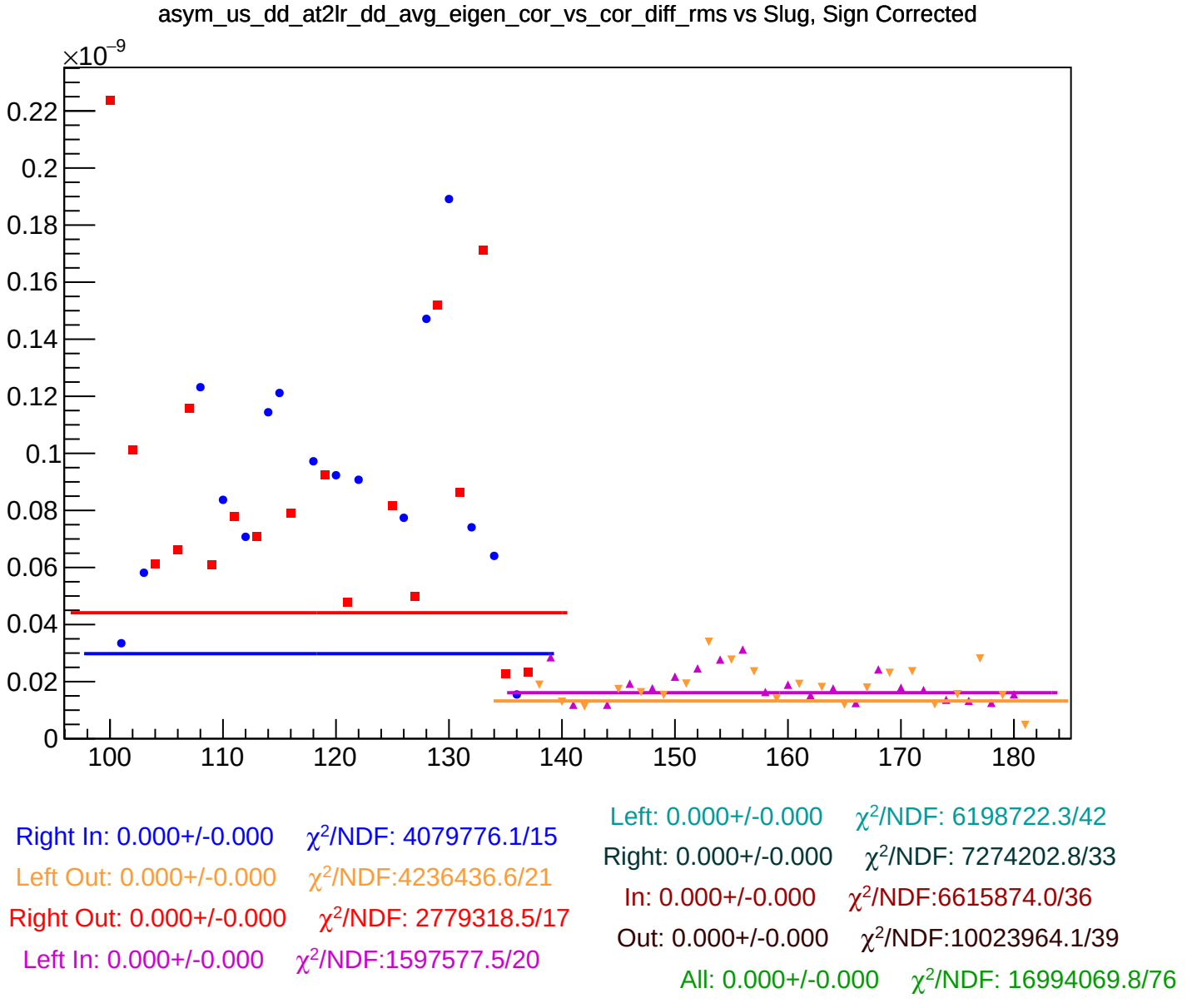
Left: 0.000+/-0.000 $\chi^2$/NDF: 34.6/42

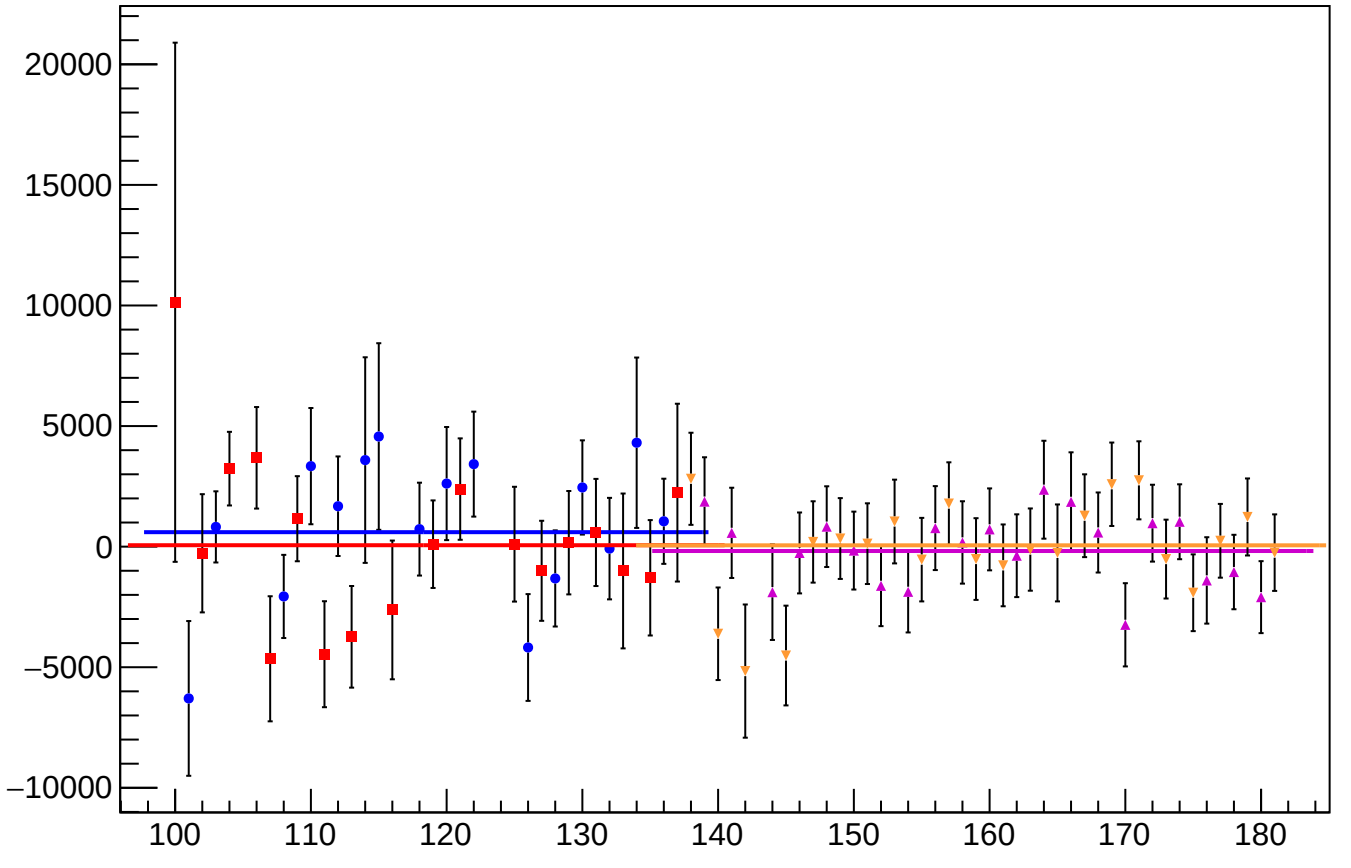
Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:39.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:31.3/39

All: 0.000+/-0.000 $\chi^2$/NDF: 71.0/76


asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 4079776.1/15
Left Out: 0.000+/-0.000 χ²/NDF:4236436.6/21
Right Out: 0.000+/-0.000 χ²/NDF: 2779318.5/17
Left In: 0.000+/-0.000 χ²/NDF:1597577.5/20
Left: 0.000+/-0.000 χ²/NDF: 6198722.3/42
Right: 0.000+/-0.000 χ²/NDF: 7274202.8/33
In: 0.000+/-0.000 χ²/NDF:6615874.0/36
Out: 0.000+/-0.000 χ²/NDF:10023964.1/39
All: 0.000+/-0.000 χ²/NDF: 16994069.8/76




Right In: 600.146+/-540.053 $\chi^2$/NDF: 20.3/15

Left Out: 54.925+/-369.864 $\chi^2$/NDF:23.7/21

Right Out: 59.091+/-530.206 $\chi^2$/NDF: 22.5/17

Left In: -181.091+/-373.511 $\chi^2$/NDF:14.4/20

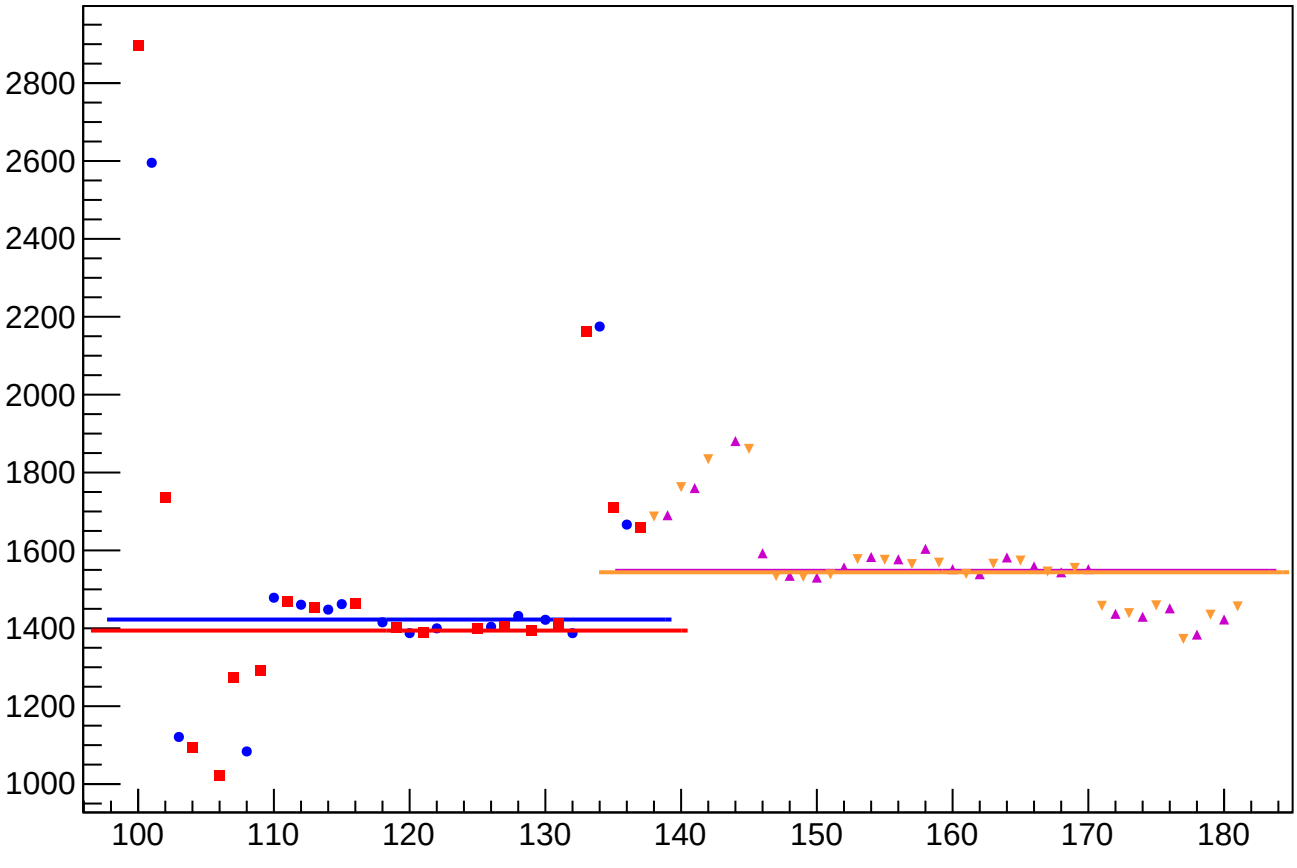
Left: -61.925+/-262.813 $\chi^2$/NDF: 38.3/42

Right: 324.641+/-378.346 $\chi^2$/NDF: 43.4/33

In: 71.690+/-307.197 $\chi^2$/NDF:36.1/36

Out: 56.289+/-303.348 $\chi^2$/NDF:46.3/39

All: 63.892+/-215.847 $\chi^2$/NDF: 82.4/76




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.3/15

Left Out: 1543.877+/-0.262 $\chi^2$/NDF:169528.1/21

Right Out: 1394.171+/-0.375 $\chi^2$/NDF: 393666.0/17

Left In: 1547.612+/-0.264 $\chi^2$/NDF:164040.5/20

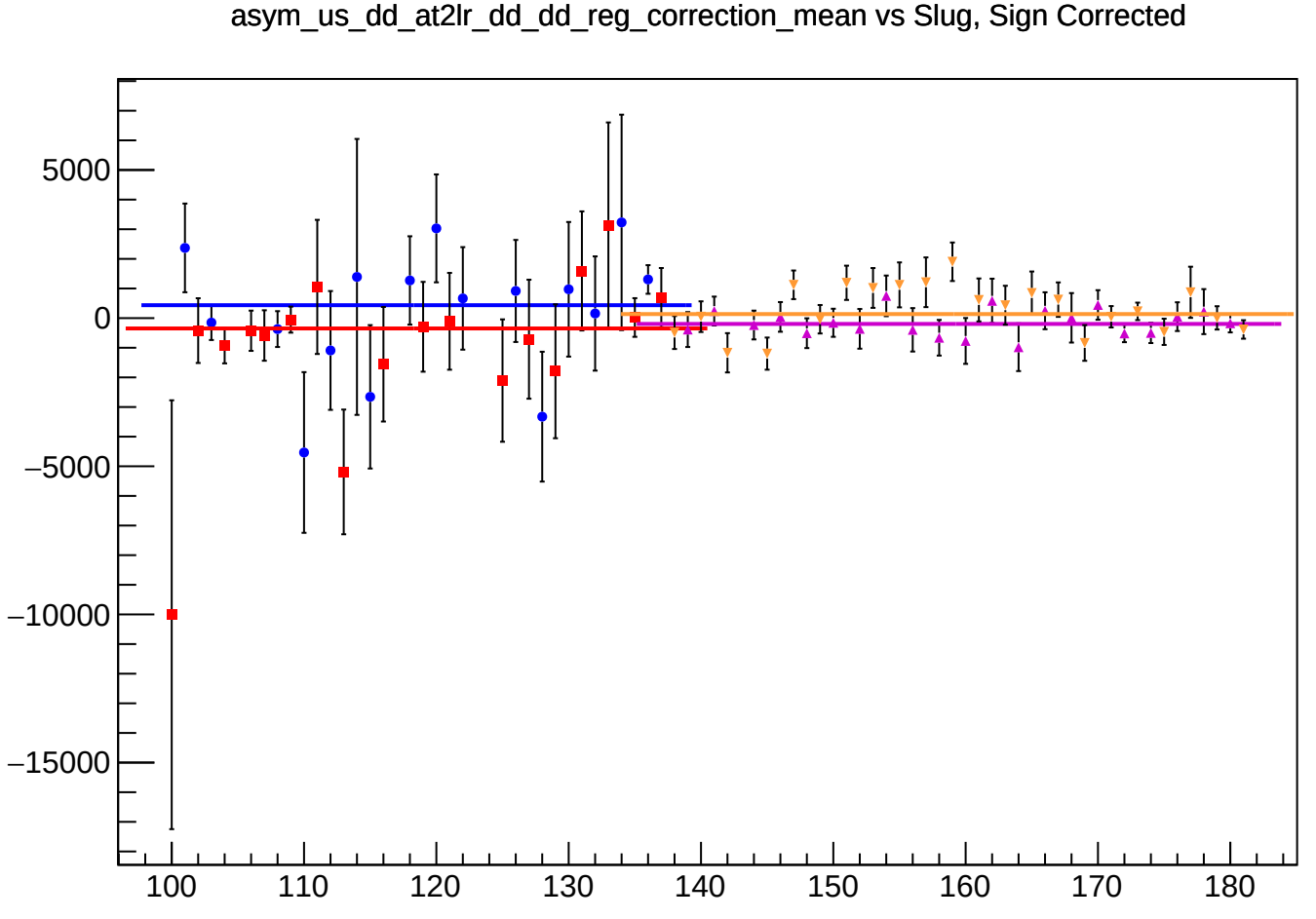
Left: 1545.726+/-0.186 $\chi^2$/NDF: 333669.7/42

Right: 1408.082+/-0.268 $\chi^2$/NDF: 956730.5/33

In: 1507.135+/-0.217 $\chi^2$/NDF:796890.8/36

Out: 1494.873+/-0.214 $\chi^2$/NDF:670450.2/39

All: 1500.927+/-0.153 $\chi^2$/NDF: 1468954.5/76




Right In: 436.509+/-275.917 $\chi^2$/NDF: 19.3/15

Left Out: 136.835+/-107.689 $\chi^2$/NDF:41.8/21

Right Out: -348.567+/-233.745 $\chi^2$/NDF: 13.9/17

Left In: -195.946+/-110.272 $\chi^2$/NDF:11.5/20

Left: -25.613+/-77.045 $\chi^2$/NDF: 57.9/42

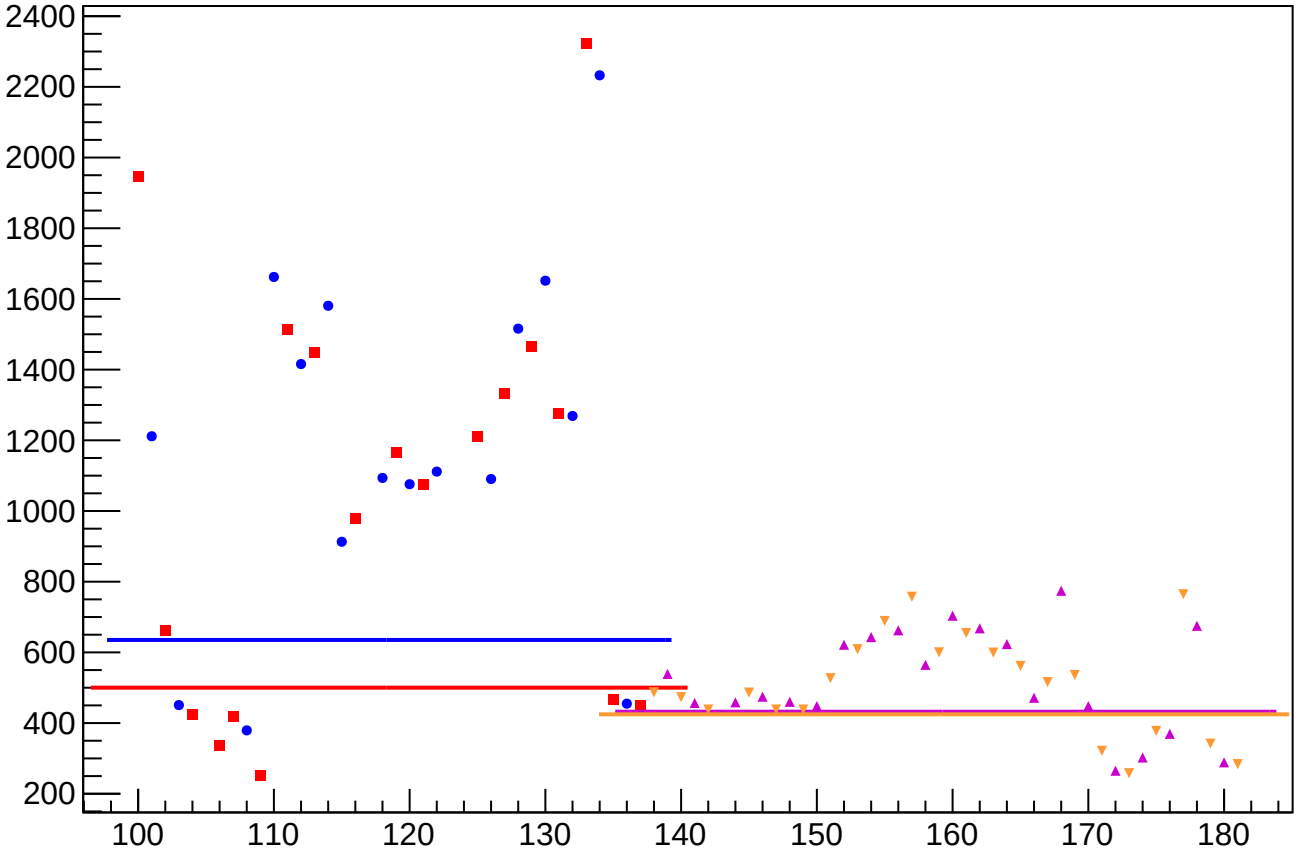
Right: -20.548+/-178.349 $\chi^2$/NDF: 38.0/33

In: -108.840+/-102.397 $\chi^2$/NDF:35.4/36

Out: 51.845+/-97.808 $\chi^2$/NDF:59.3/39

All: -24.816+/-70.728 $\chi^2$/NDF: 95.9/76

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 635.135+/-0.195 $\chi^2$/NDF: 3752583.4/15

Left Out: 424.763+/-0.076 $\chi^2$/NDF:3150973.9/21

Right Out: 500.231+/-0.165 $\chi^2$/NDF: 4309093.1/17

Left In: 432.136+/-0.078 $\chi^2$/NDF:3243527.6/20

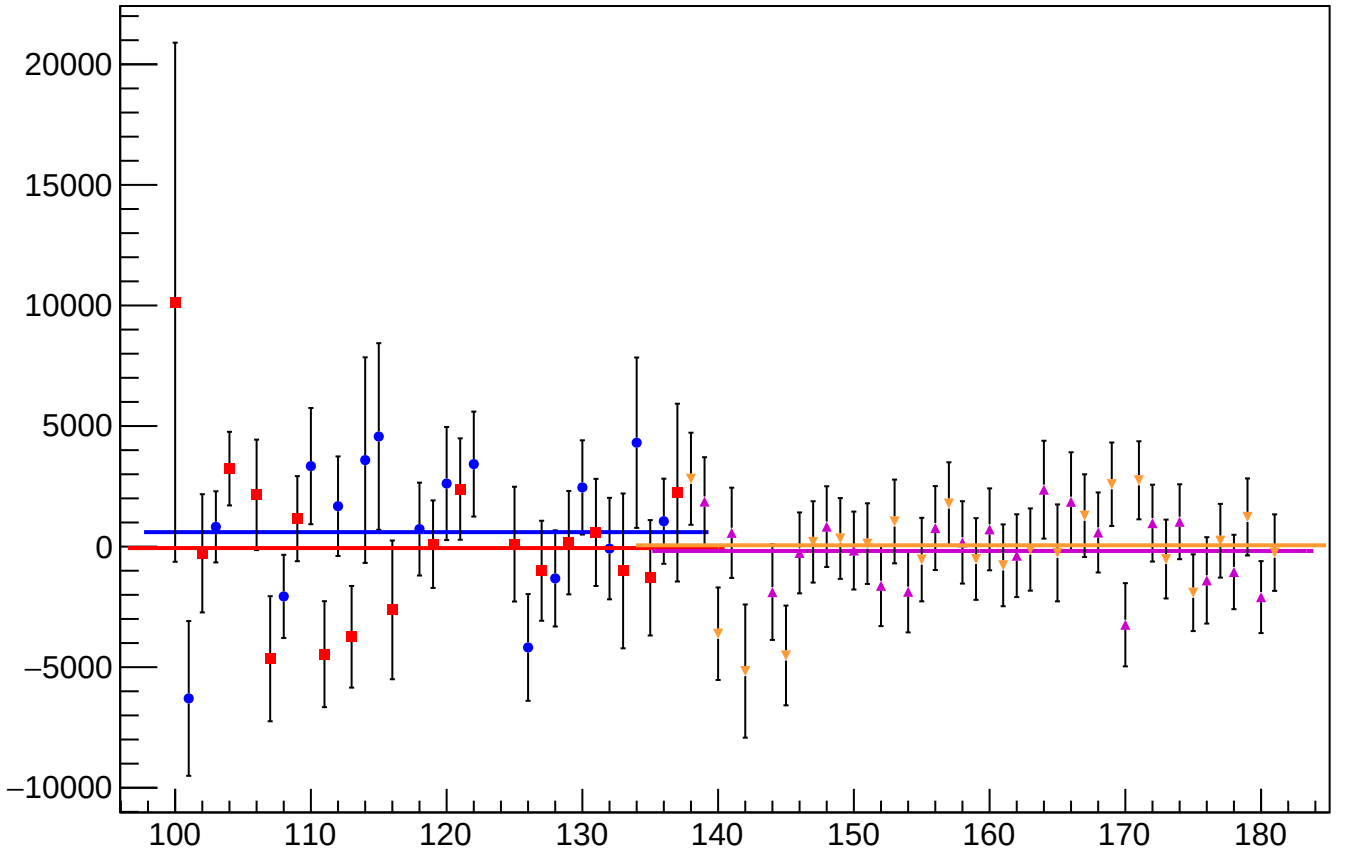
Left: 428.362+/-0.054 $\chi^2$/NDF: 6399078.0/42

Right: 556.596+/-0.126 $\chi^2$/NDF: 8340019.1/33

In: 460.094+/-0.072 $\chi^2$/NDF:7929595.2/36

Out: 437.977+/-0.069 $\chi^2$/NDF:7632049.9/39

All: 448.529+/-0.050 $\chi^2$/NDF: 15610438.1/76




Right In: 600.020+/-540.053 $\chi^2$/NDF: 20.3/15

Left Out: 54.877+/-369.864 $\chi^2$/NDF:23.7/21

Right Out: -60.361+/-532.826 $\chi^2$/NDF: 20.4/17

Left In: -181.142+/-373.511 $\chi^2$/NDF:14.4/20

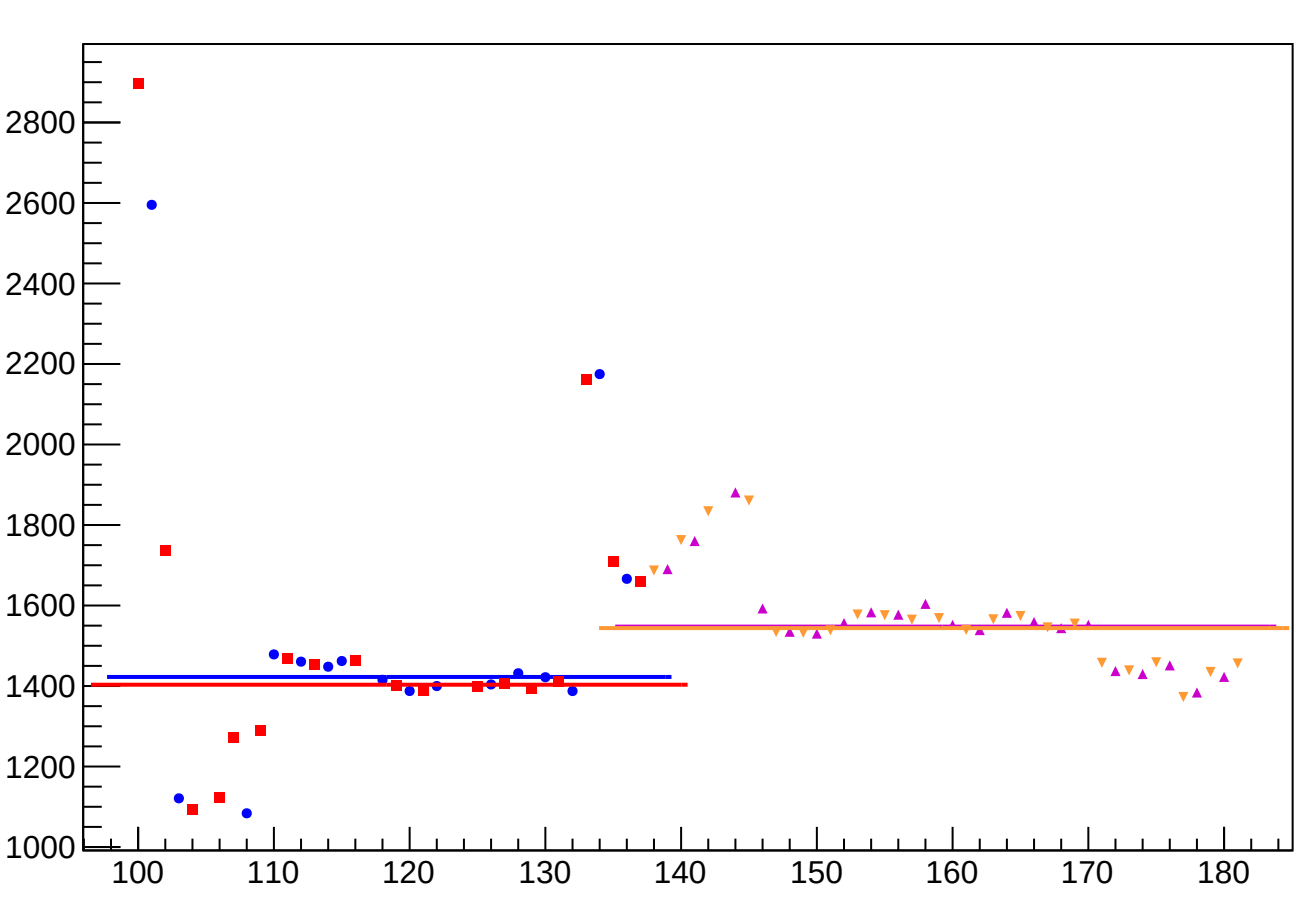
Left: -61.975+/-262.813 $\chi^2$/NDF: 38.3/42

Right: 265.381+/-379.294 $\chi^2$/NDF: 41.4/33

In: 71.614+/-307.197 $\chi^2$/NDF:36.1/36

Out: 17.405+/-303.836 $\chi^2$/NDF:44.1/39

All: 44.212+/-216.023 $\chi^2$/NDF: 80.3/76




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.5/15

Left Out: 1543.877+/-0.262 $\chi^2$/NDF:169528.1/21

Right Out: 1403.220+/-0.377 $\chi^2$/NDF: 359113.5/17

Left In: 1547.613+/-0.264 $\chi^2$/NDF:164040.5/20

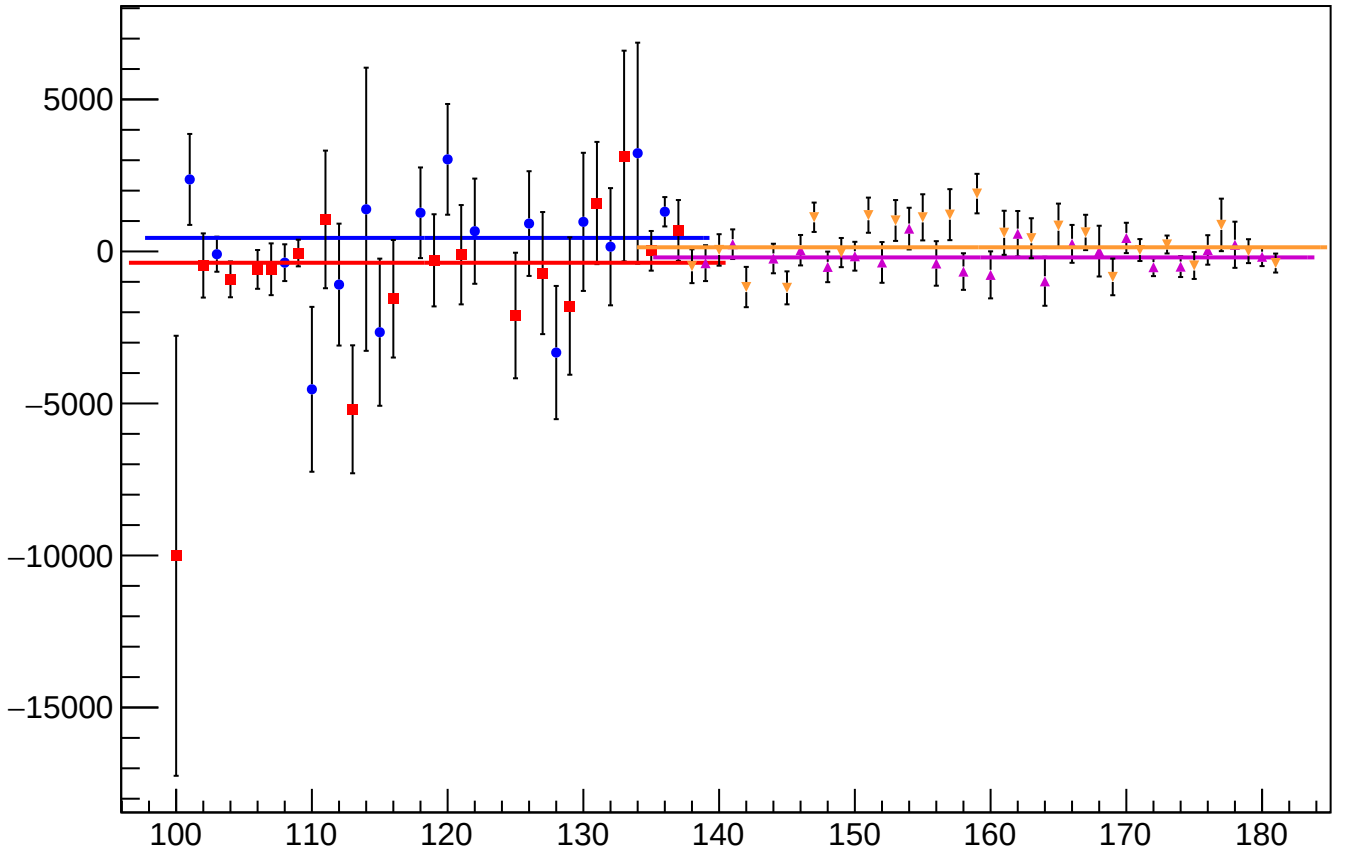
Left: 1545.726+/-0.186 $\chi^2$/NDF: 333669.6/42

Right: 1412.737+/-0.268 $\chi^2$/NDF: 920666.7/33

In: 1507.135+/-0.217 $\chi^2$/NDF:796891.2/36

Out: 1498.140+/-0.215 $\chi^2$/NDF:622696.5/39

All: 1502.588+/-0.153 $\chi^2$/NDF: 1420454.6/76




Right In: 445.121+/-274.737 $\chi^2$/NDF: 19.2/15

Left Out: 136.835+/-107.690 $\chi^2$/NDF:41.8/21

Right Out: -372.538+/-231.353 $\chi^2$/NDF: 14.0/17

Left In: -196.129+/-110.272 $\chi^2$/NDF:11.5/20

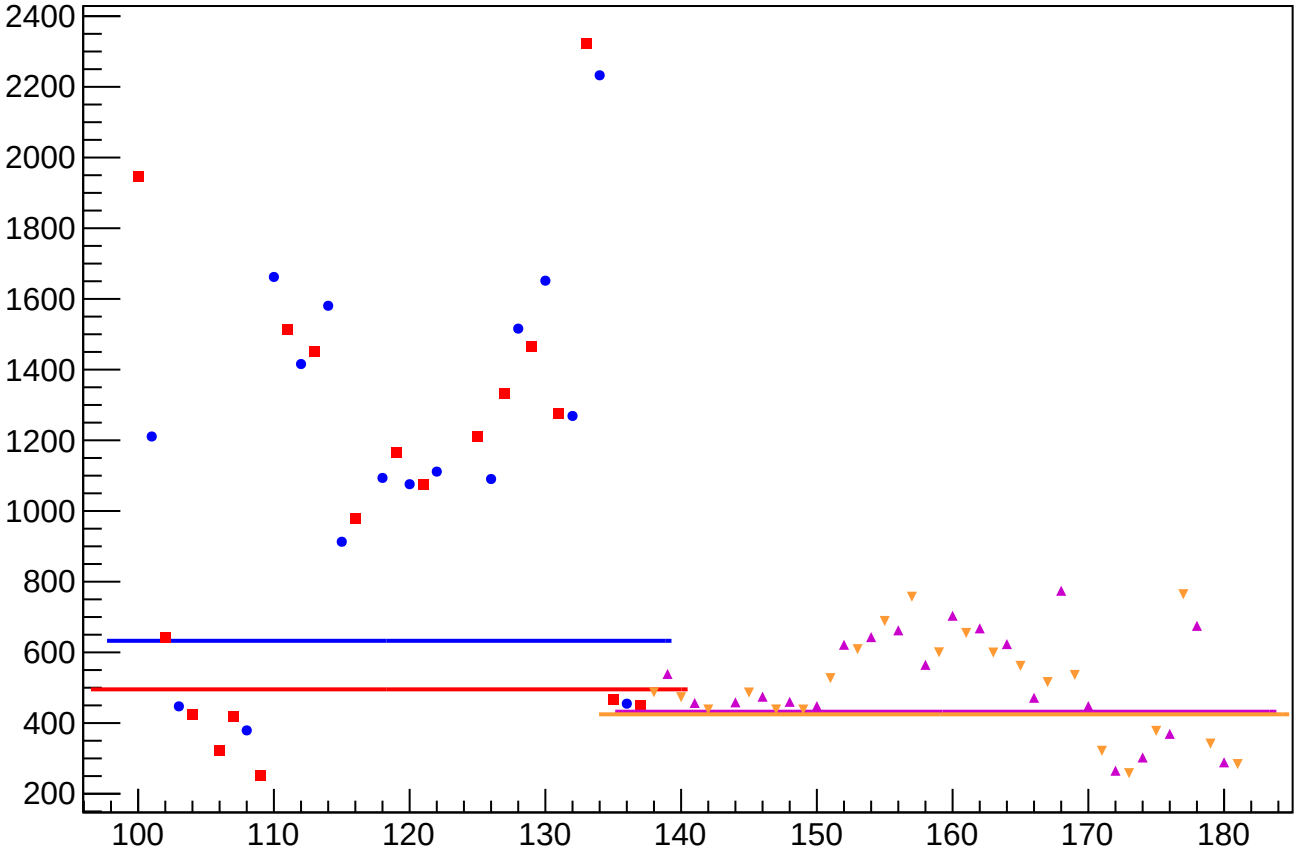
Left: -25.703+/-77.045 $\chi^2$/NDF: 58.0/42

Right: -33.290+/-176.966 $\chi^2$/NDF: 38.4/33

In: -107.157+/-102.337 $\chi^2$/NDF:35.4/36

Out: 46.124+/-97.631 $\chi^2$/NDF:59.8/39

All: -26.912+/-70.641 $\chi^2$/NDF: 96.3/76




Right In: 632.753+/-0.194 $\chi^2$/NDF: 3767731.7/15

Left Out: 424.762+/-0.076 $\chi^2$/NDF:3151201.1/21

Right Out: 495.380+/-0.164 $\chi^2$/NDF: 4337484.8/17

Left In: 432.136+/-0.078 $\chi^2$/NDF:3243401.2/20

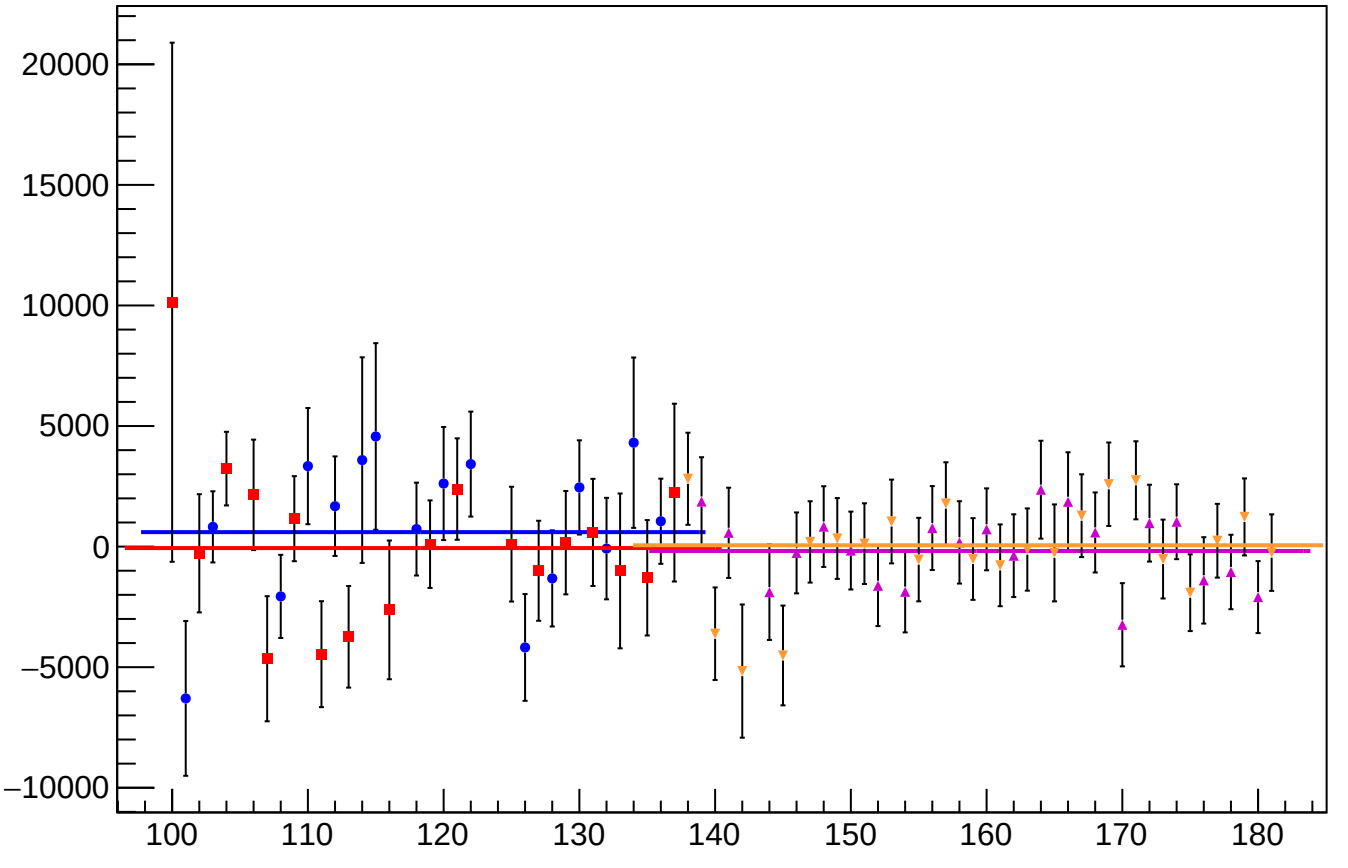
Left: 428.362+/-0.054 $\chi^2$/NDF: 6399180.5/42

Right: 552.376+/-0.125 $\chi^2$/NDF: 8397783.6/33

In: 459.972+/-0.072 $\chi^2$/NDF:7929588.2/36

Out: 437.338+/-0.069 $\chi^2$/NDF:7641843.1/39

All: 448.122+/-0.050 $\chi^2$/NDF: 15622647.6/76




Right In: 600.020+/-540.053 $\chi^2$/NDF: 20.3/15

Left Out: 54.877+/-369.864 $\chi^2$/NDF:23.7/21

Right Out: -60.361+/-532.826 $\chi^2$/NDF: 20.4/17

Left In: -181.142+/-373.511 $\chi^2$/NDF:14.4/20

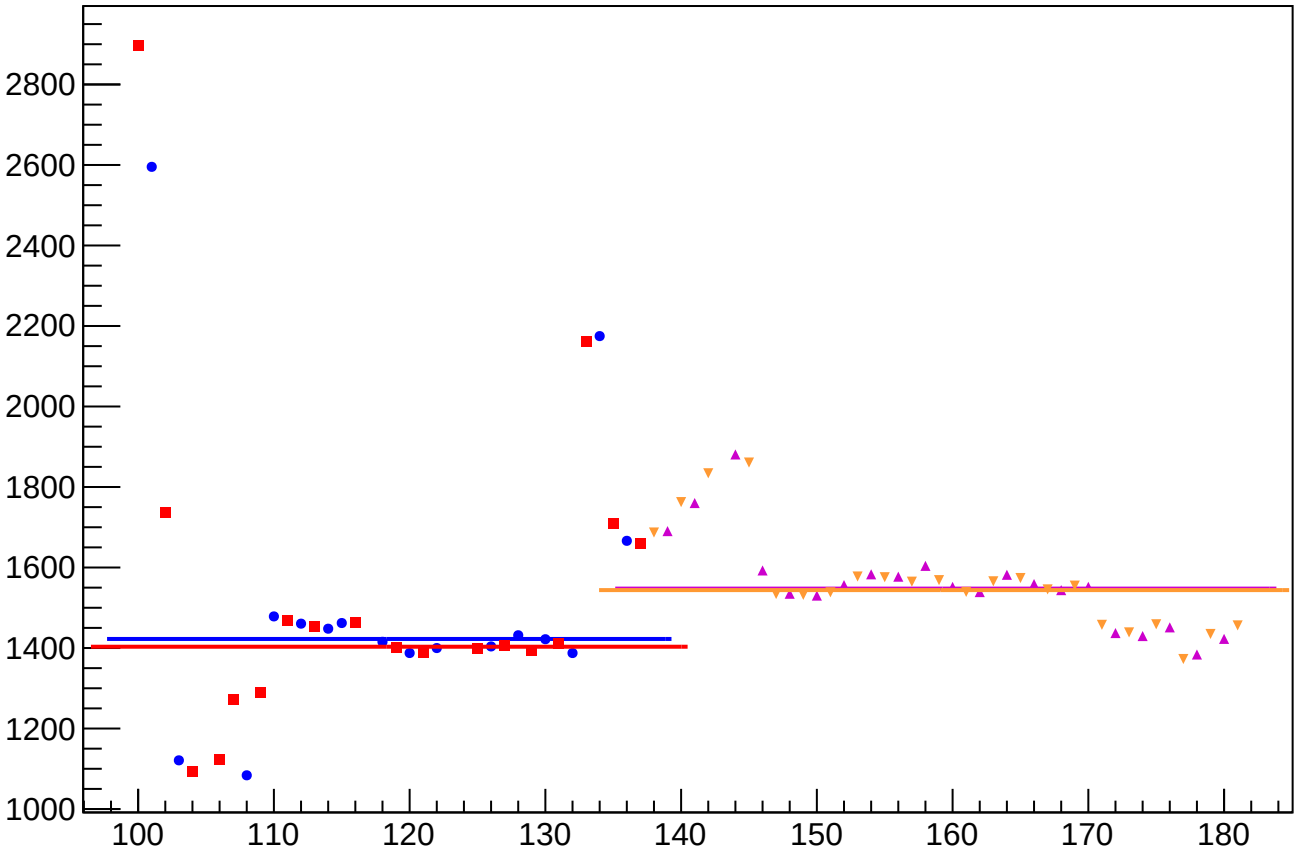
Left: -61.975+/-262.813 $\chi^2$/NDF: 38.3/42

Right: 265.381+/-379.294 $\chi^2$/NDF: 41.4/33

In: 71.614+/-307.197 $\chi^2$/NDF:36.1/36

Out: 17.405+/-303.836 $\chi^2$/NDF:44.1/39

All: 44.212+/-216.023 $\chi^2$/NDF: 80.3/76




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.5/15

Left Out: 1543.877+/-0.262 $\chi^2$/NDF:169528.1/21

Right Out: 1403.220+/-0.377 $\chi^2$/NDF: 359113.5/17

Left In: 1547.613+/-0.264 $\chi^2$/NDF:164040.5/20

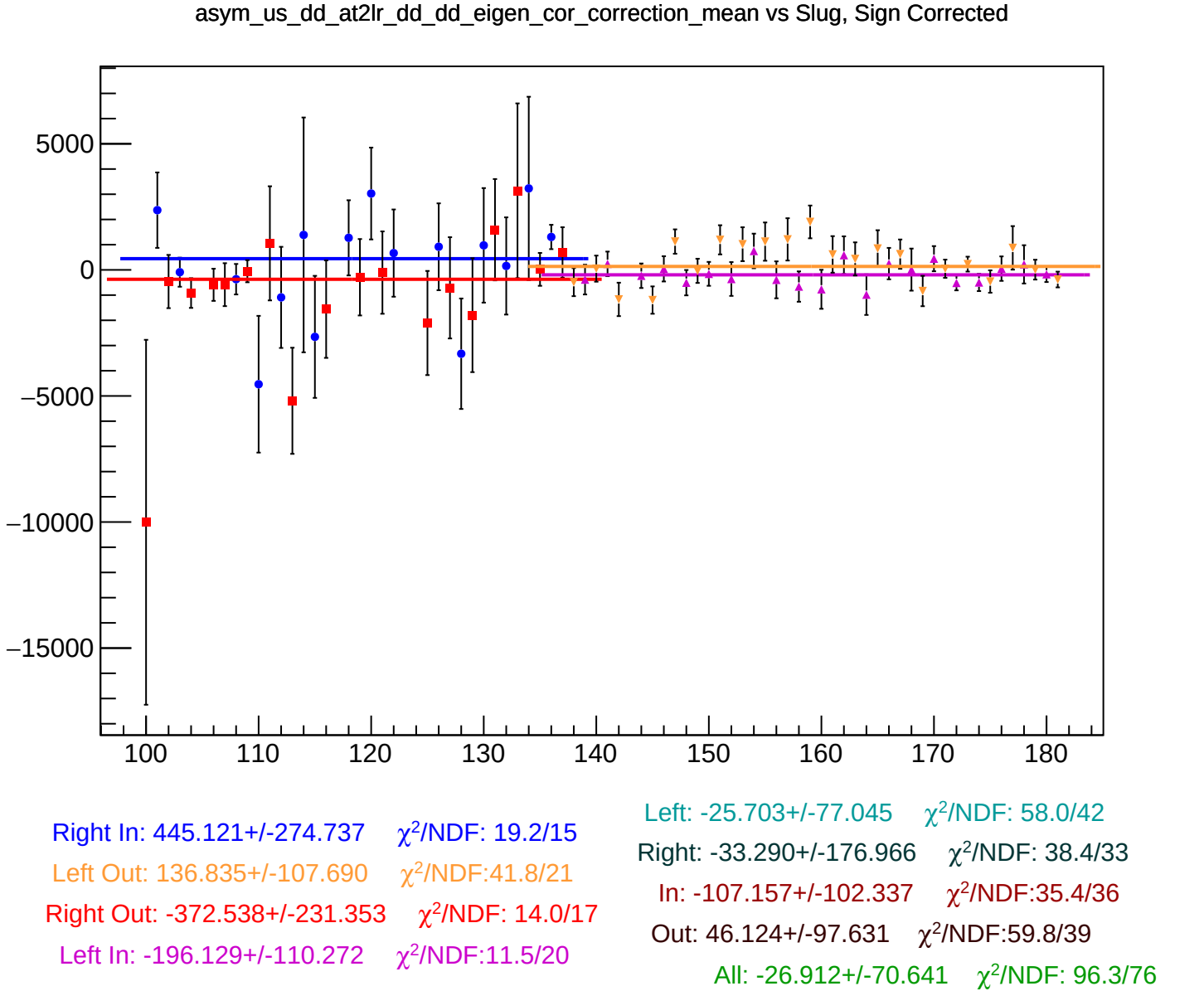
Left: 1545.726+/-0.186 $\chi^2$/NDF: 333669.6/42

Right: 1412.737+/-0.268 $\chi^2$/NDF: 920666.7/33

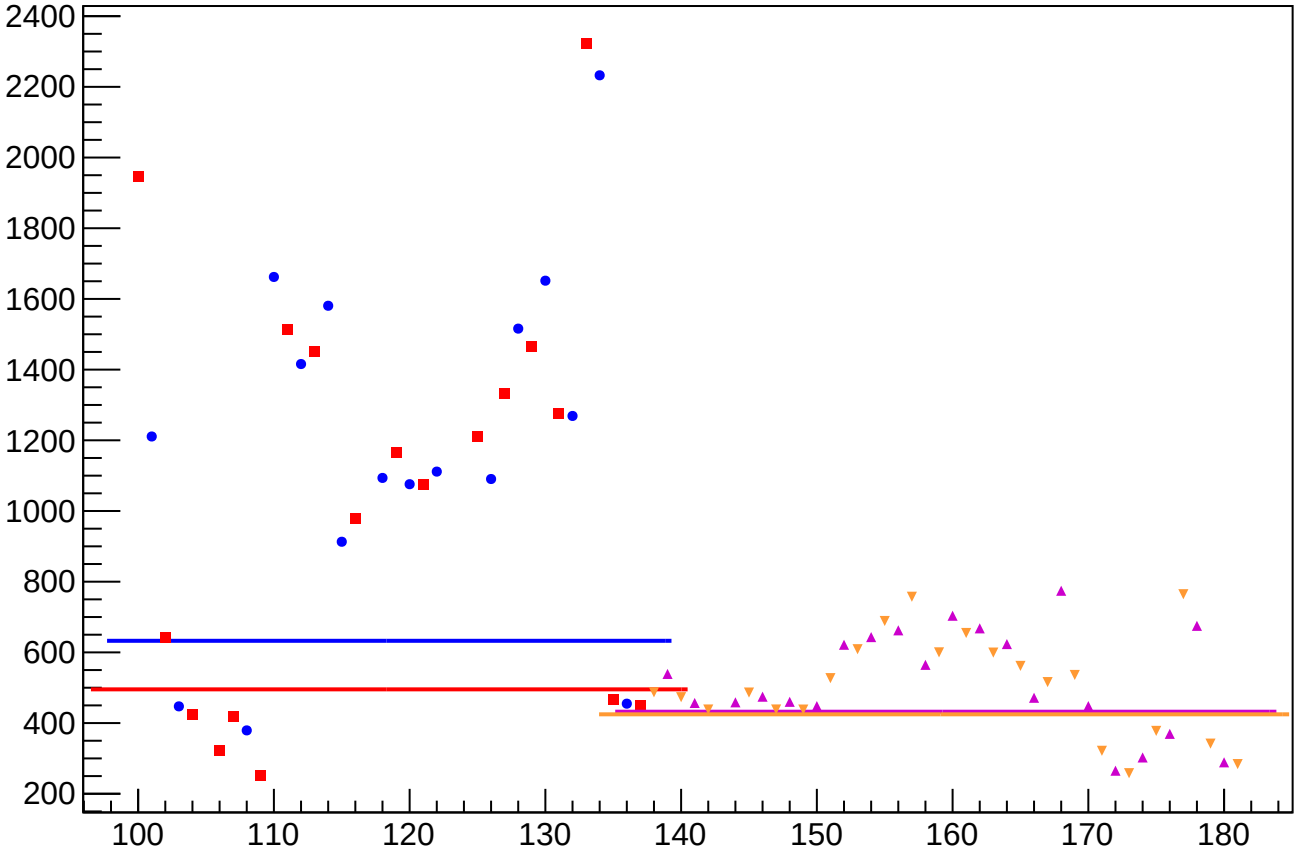
In: 1507.135+/-0.217 $\chi^2$/NDF:796891.2/36

Out: 1498.140+/-0.215 $\chi^2$/NDF:622696.5/39

All: 1502.588+/-0.153 $\chi^2$/NDF: 1420454.6/76


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 445.121+/-274.737 χ²/NDF: 19.2/15
Left Out: 136.835+/-107.690 χ²/NDF:41.8/21
Right Out: -372.538+/-231.353 χ²/NDF: 14.0/17
Left In: -196.129+/-110.272 χ²/NDF:11.5/20
Left: -25.703+/-77.045 χ²/NDF: 58.0/42
Right: -33.290+/-176.966 χ²/NDF: 38.4/33
In: -107.157+/-102.337 χ²/NDF:35.4/36
Out: 46.124+/-97.631 χ²/NDF:59.8/39
All: -26.912+/-70.641 χ²/NDF: 96.3/76

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 632.753+/-0.194 $\chi^2$/NDF: 3767731.7/15

Left Out: 424.762+/-0.076 $\chi^2$/NDF:3151201.1/21

Right Out: 495.380+/-0.164 $\chi^2$/NDF: 4337484.8/17

Left In: 432.136+/-0.078 $\chi^2$/NDF:3243401.2/20

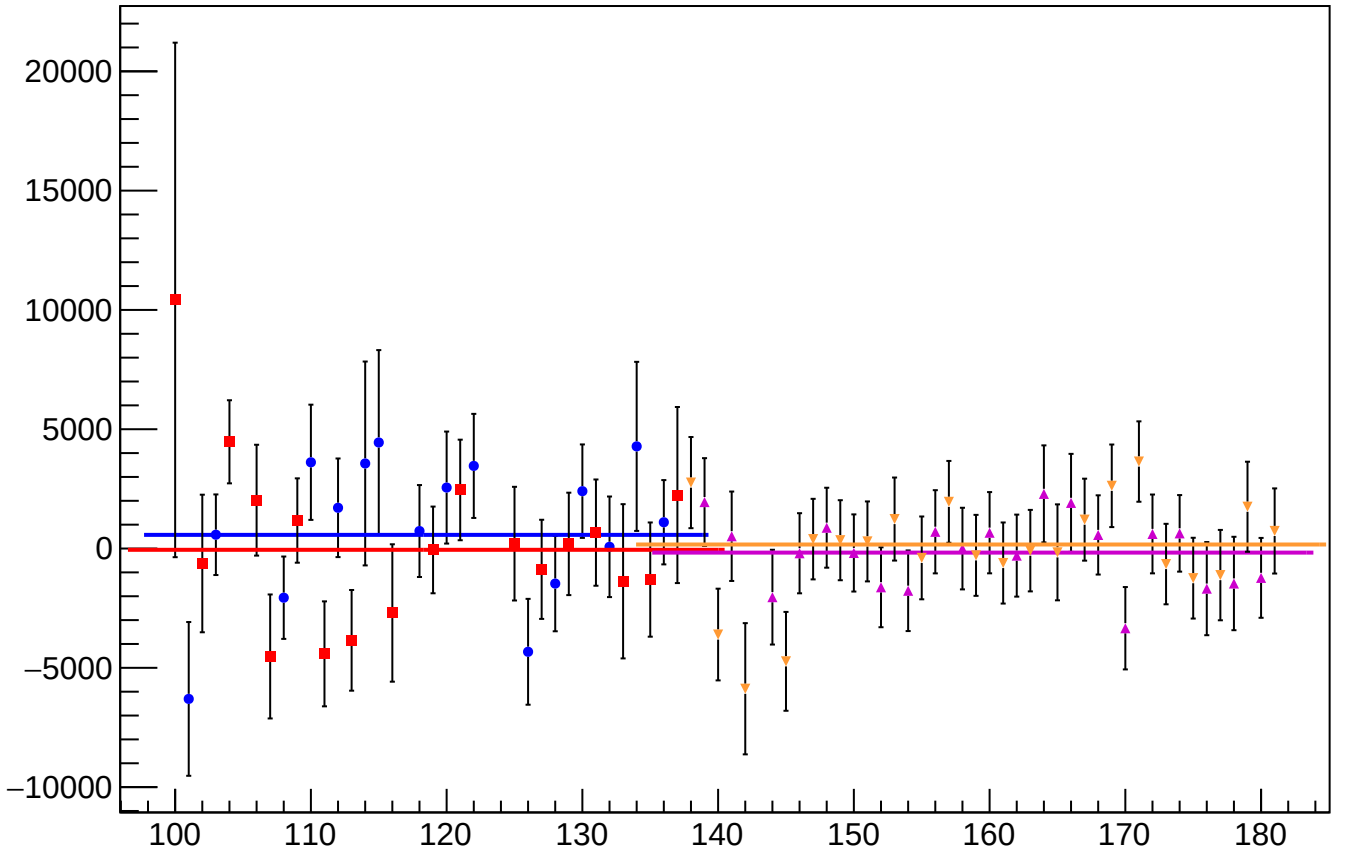
Left: 428.362+/-0.054 $\chi^2$/NDF: 6399180.5/42

Right: 552.376+/-0.125 $\chi^2$/NDF: 8397783.6/33

In: 459.972+/-0.072 $\chi^2$/NDF:7929588.2/36

Out: 437.338+/-0.069 $\chi^2$/NDF:7641843.1/39

All: 448.122+/-0.050 $\chi^2$/NDF: 15622647.6/76




Right In: 572.289+/-549.638 $\chi^2$/NDF: 20.8/15

Left Out: 168.680+/-381.840 $\chi^2$/NDF:26.9/21

Right Out: -53.754+/-545.353 $\chi^2$/NDF: 22.5/17

Left In: -171.138+/-383.457 $\chi^2$/NDF:12.9/20

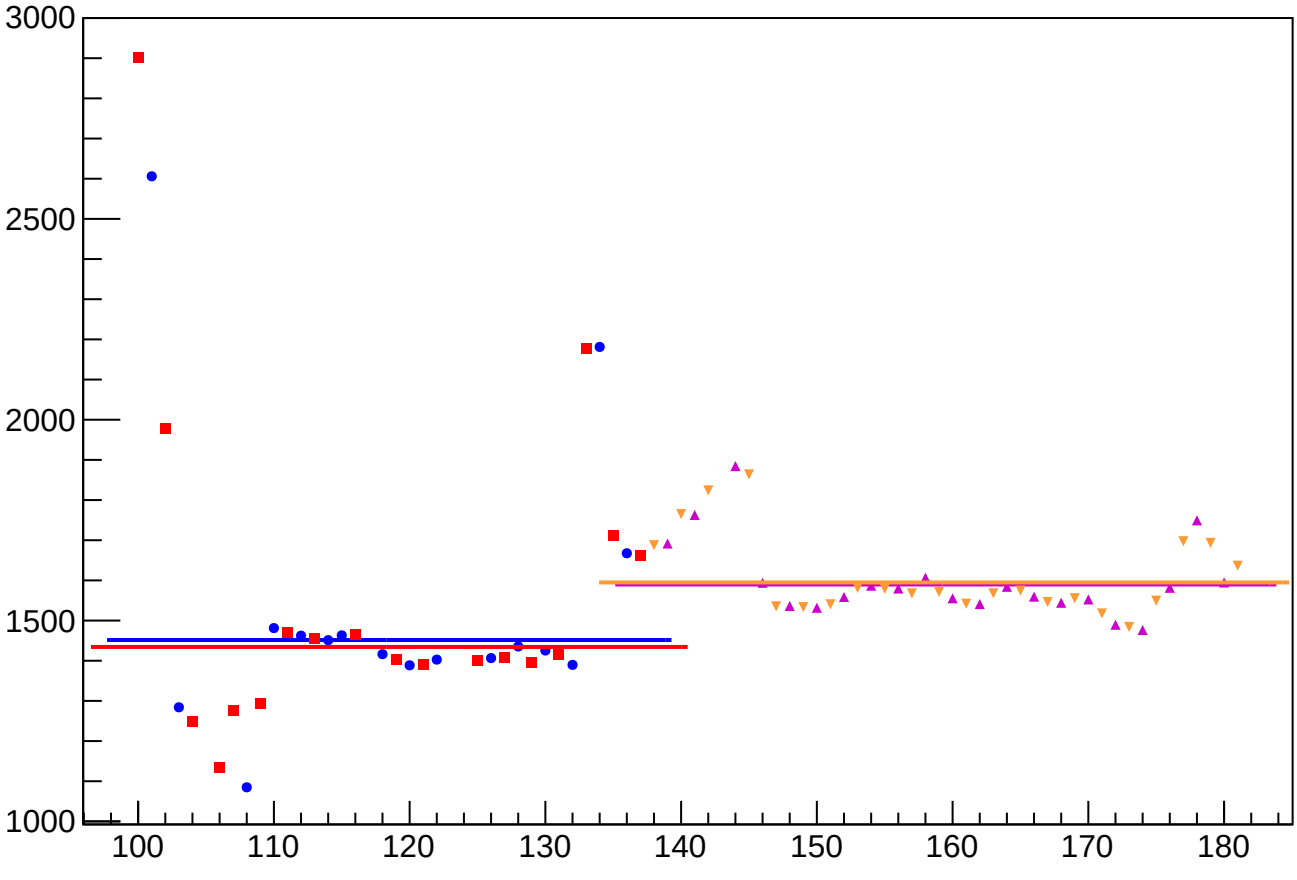
Left: -0.511+/-270.572 $\chi^2$/NDF: 40.2/42

Right: 256.817+/-387.129 $\chi^2$/NDF: 43.9/33

In: 72.245+/-314.487 $\chi^2$/NDF:34.9/36

Out: 95.507+/-312.790 $\chi^2$/NDF:49.5/39

All: 83.939+/-221.773 $\chi^2$/NDF: 84.4/76




Right In: 1451.579+/-0.389 $\chi^2$/NDF: 487836.7/15

Left Out: 1594.933+/-0.270 $\chi^2$/NDF:108365.7/21

Right Out: 1434.321+/-0.386 $\chi^2$/NDF: 328590.5/17

Left In: 1589.795+/-0.271 $\chi^2$/NDF:108782.7/20

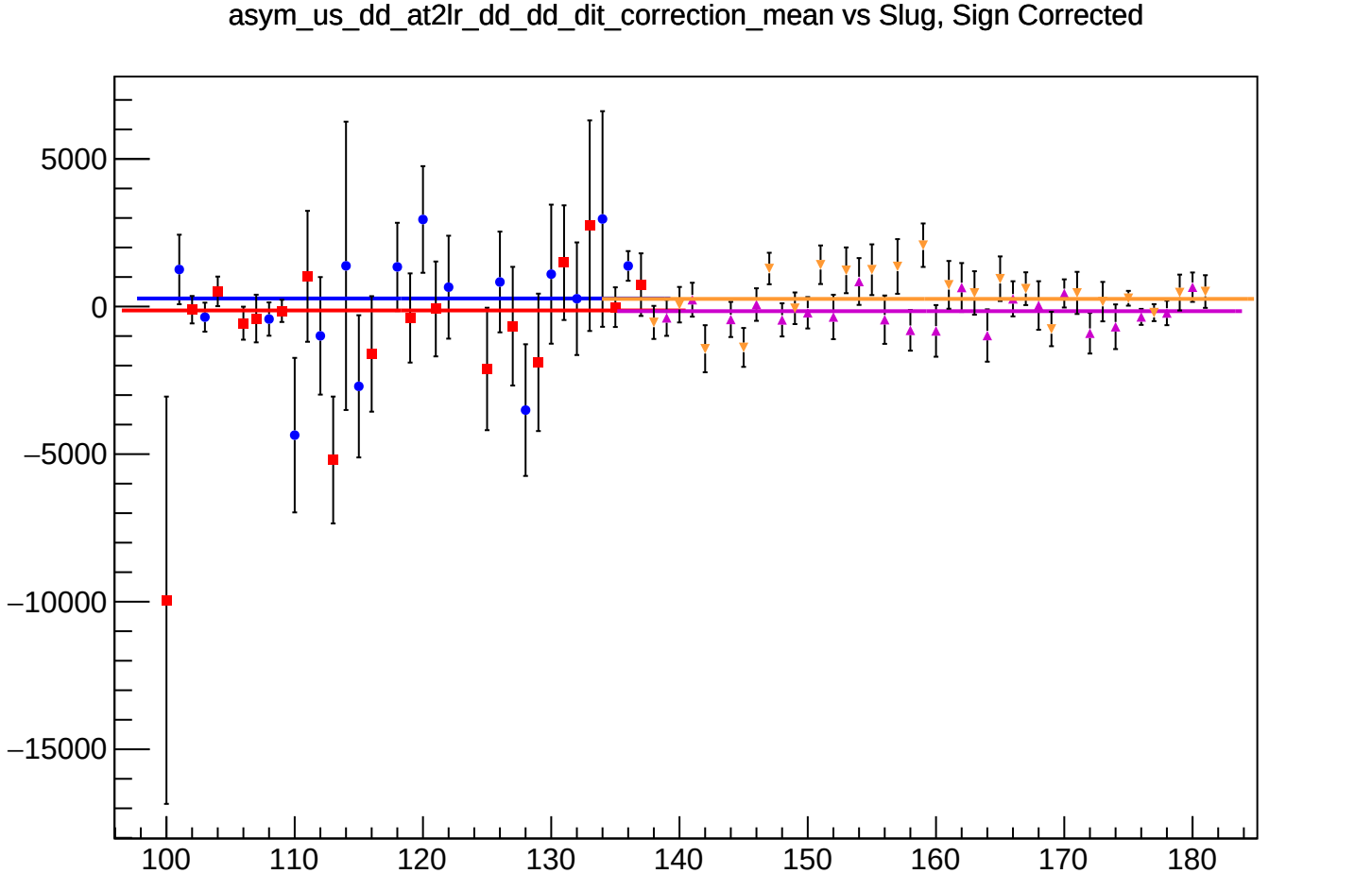
Left: 1592.375+/-0.191 $\chi^2$/NDF: 217328.7/42

Right: 1442.883+/-0.274 $\chi^2$/NDF: 817420.7/33

In: 1544.546+/-0.222 $\chi^2$/NDF:681686.8/36

Out: 1542.097+/-0.221 $\chi^2$/NDF:553362.7/39

All: 1543.315+/-0.157 $\chi^2$/NDF: 1235110.5/76




Right In: 273.439+/-260.537 $\chi^2$/NDF: 20.2/15

Left Out: 258.676+/-115.731 $\chi^2$/NDF:38.2/21

Right Out: -132.573+/-195.933 $\chi^2$/NDF: 14.4/17

Left In: -157.008+/-123.520 $\chi^2$/NDF:13.3/20

Left: 64.351+/-84.454 $\chi^2$/NDF: 57.6/42

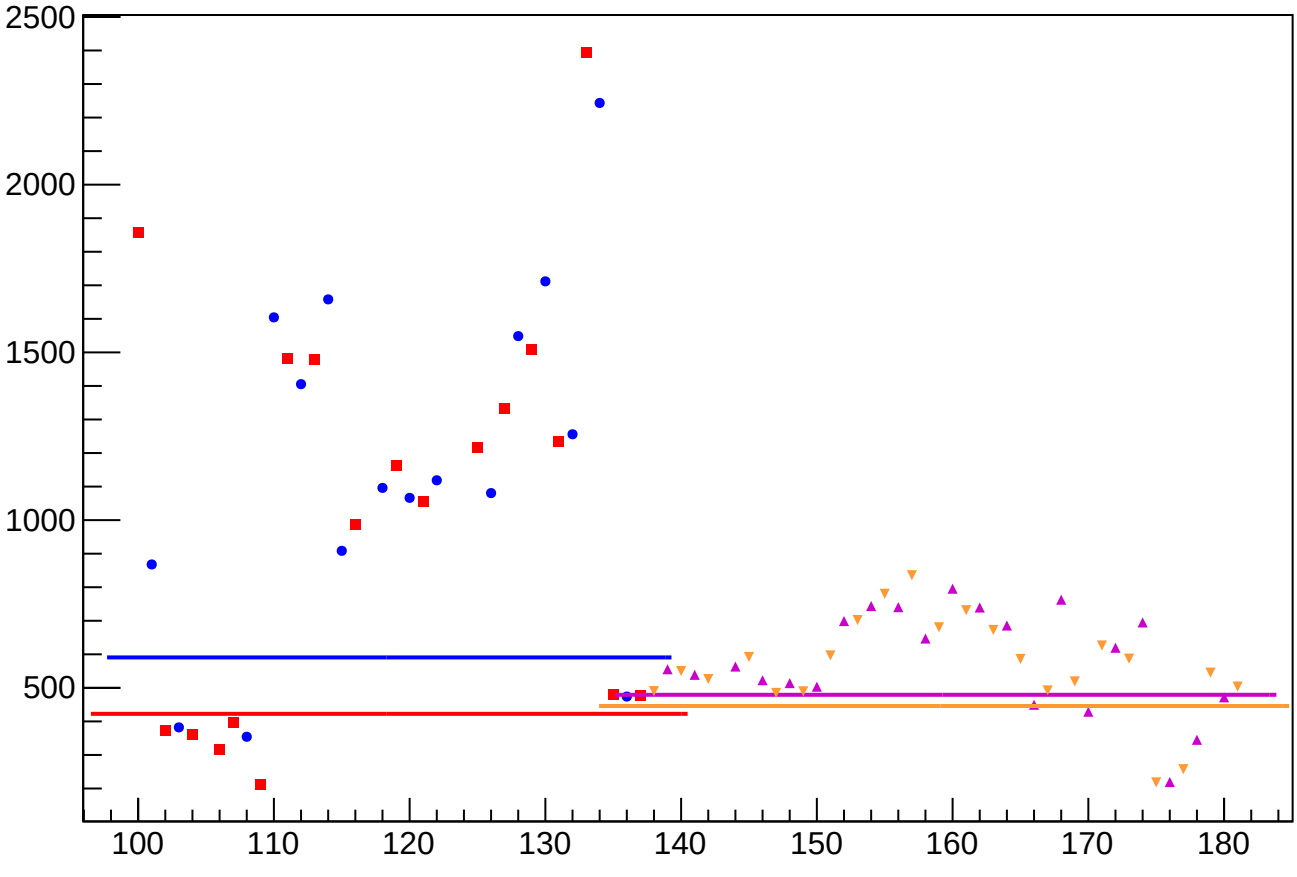
Right: 14.100+/-156.593 $\chi^2$/NDF: 36.2/33

In: -78.013+/-111.612 $\chi^2$/NDF:35.8/36

Out: 157.480+/-99.647 $\chi^2$/NDF:55.6/39

All: 53.028+/-74.332 $\chi^2$/NDF: 93.8/76

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 590.749+/-0.184 $\chi^2$/NDF: 3885502.1/15

Left Out: 445.960+/-0.082 $\chi^2$/NDF:4752441.6/21

Right Out: 422.629+/-0.139 $\chi^2$/NDF: 4858014.6/17

Left In: 479.353+/-0.087 $\chi^2$/NDF:3961155.5/20

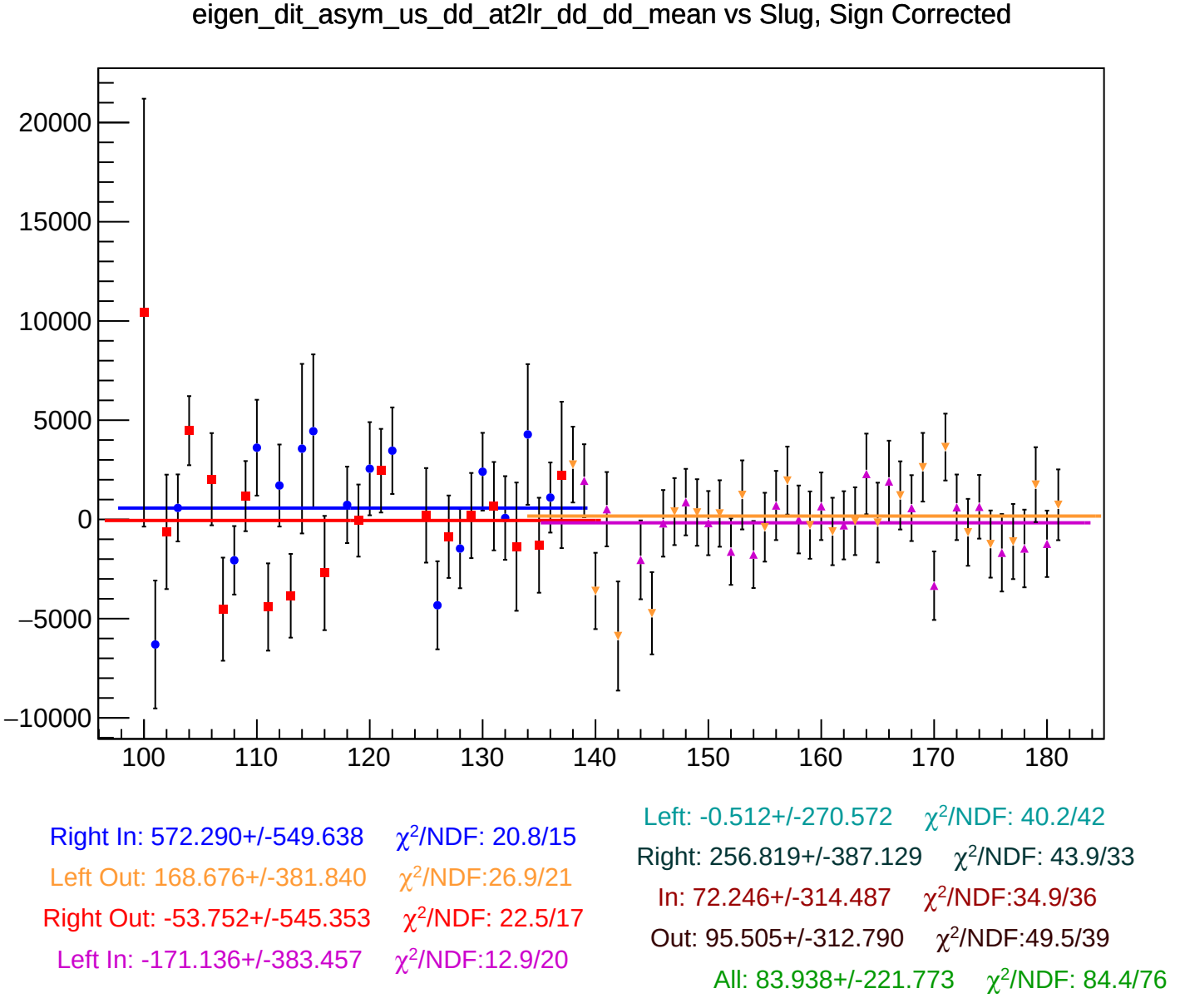
Left: 461.570+/-0.060 $\chi^2$/NDF: 8791438.6/42

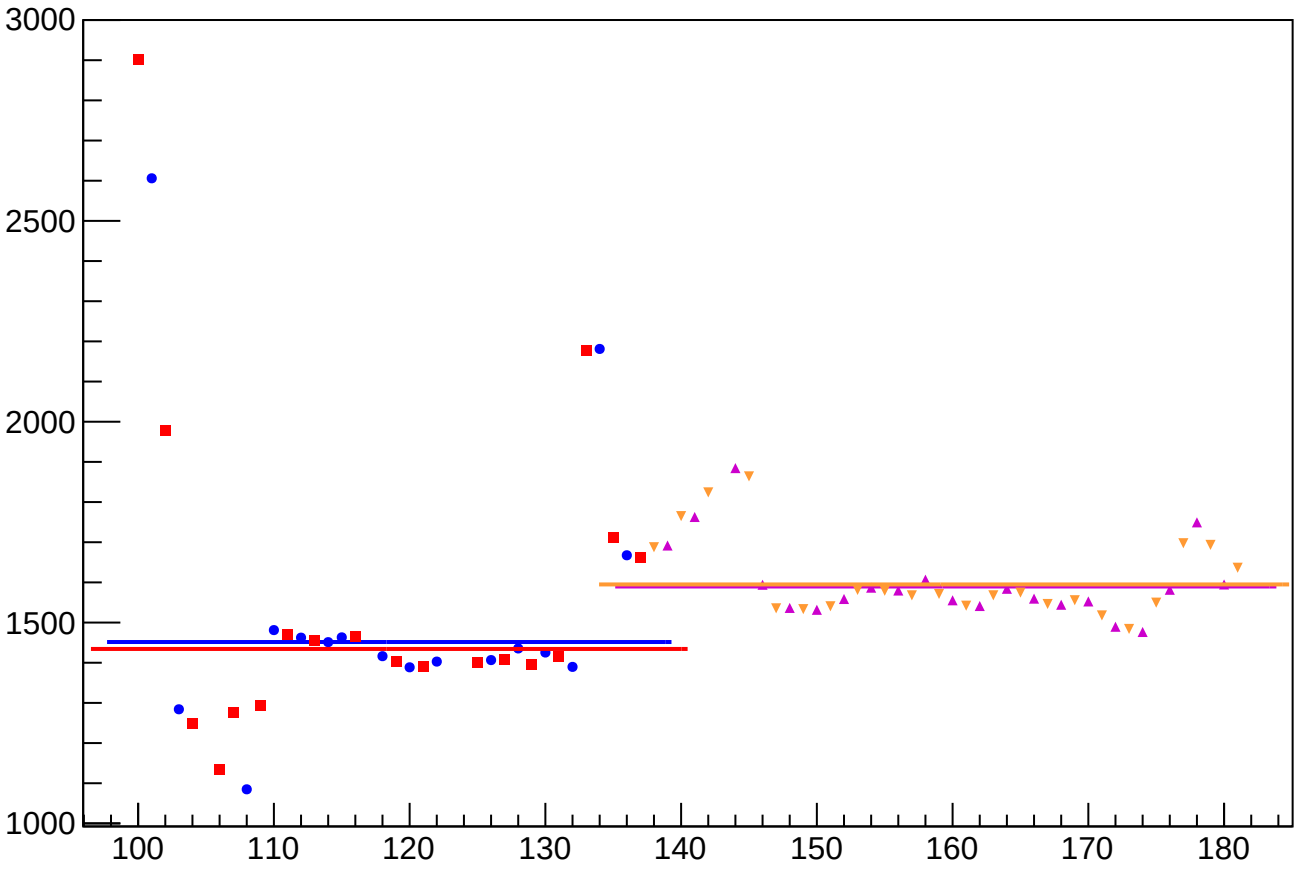
Right: 483.362+/-0.111 $\chi^2$/NDF: 9275456.5/33

In: 499.796+/-0.079 $\chi^2$/NDF:8145180.9/36

Out: 439.925+/-0.070 $\chi^2$/NDF:9631479.5/39

All: 466.481+/-0.053 $\chi^2$/NDF: 18096900.3/76


eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
100
110
120
130
140
150
160
170
180
Right In: 572.290+/-549.638 χ²/NDF: 20.8/15
Left Out: 168.676+/-381.840 χ²/NDF:26.9/21
Right Out: -53.752+/-545.353 χ²/NDF: 22.5/17
Left In: -171.136+/-383.457 χ²/NDF:12.9/20
Left: -0.512+/-270.572 χ²/NDF: 40.2/42
Right: 256.819+/-387.129 χ²/NDF: 43.9/33
In: 72.246+/-314.487 χ²/NDF:34.9/36
Out: 95.505+/-312.790 χ²/NDF:49.5/39
All: 83.938+/-221.773 χ²/NDF: 84.4/76




Right In: 1451.579+/-0.389 $\chi^2$/NDF: 487836.2/15

Left Out: 1594.933+/-0.270 $\chi^2$/NDF:108366.3/21

Right Out: 1434.321+/-0.386 $\chi^2$/NDF: 328590.5/17

Left In: 1589.795+/-0.271 $\chi^2$/NDF:108783.1/20

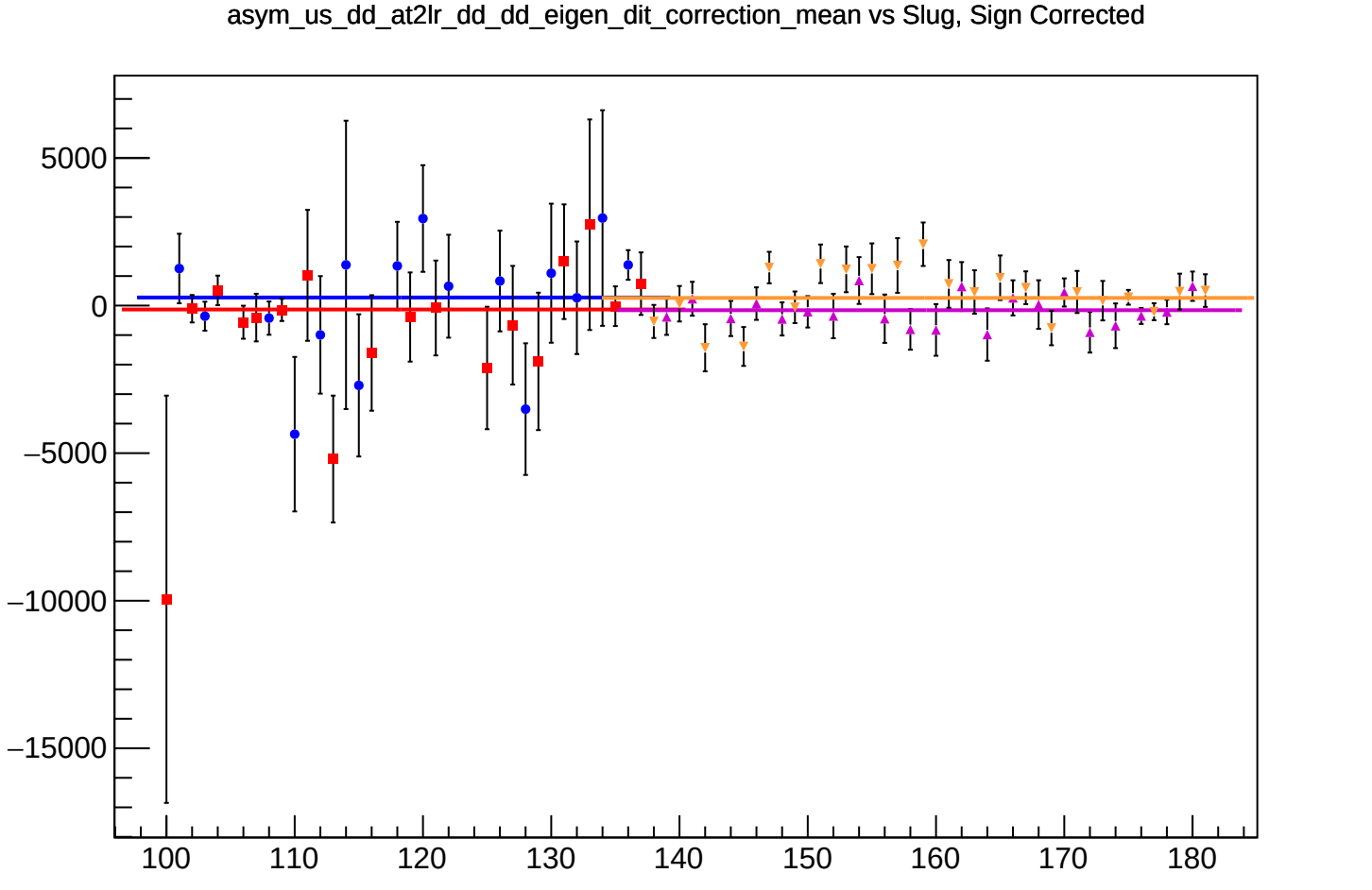
Left: 1592.375+/-0.191 $\chi^2$/NDF: 217329.7/42

Right: 1442.883+/-0.274 $\chi^2$/NDF: 817420.3/33

In: 1544.546+/-0.222 $\chi^2$/NDF:681686.2/36

Out: 1542.097+/-0.221 $\chi^2$/NDF:553363.1/39

All: 1543.315+/-0.157 $\chi^2$/NDF: 1235110.2/76




Right In: 273.429+/-260.536 $\chi^2$/NDF: 20.2/15

Left Out: 258.683+/-115.732 $\chi^2$/NDF:38.2/21

Right Out: -132.567+/-195.935 $\chi^2$/NDF: 14.4/17

Left In: -157.007+/-123.520 $\chi^2$/NDF:13.3/20

Left: 64.354+/-84.454 $\chi^2$/NDF: 57.6/42

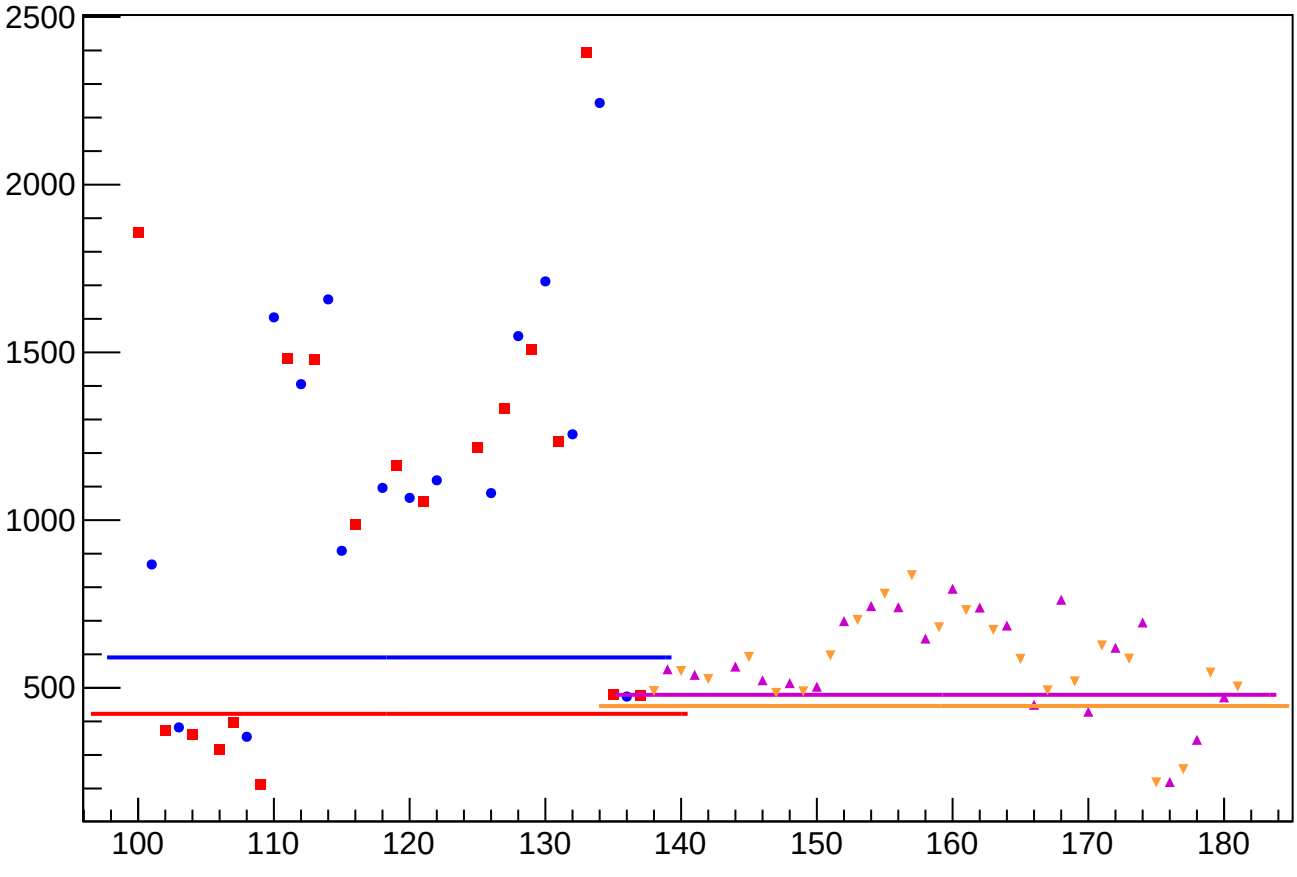
Right: 14.101+/-156.594 $\chi^2$/NDF: 36.2/33

In: -78.013+/-111.612 $\chi^2$/NDF:35.8/36

Out: 157.487+/-99.647 $\chi^2$/NDF:55.6/39

All: 53.031+/-74.333 $\chi^2$/NDF: 93.8/76

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 590.747+/-0.184 $\chi^2$/NDF: 3885530.6/15

Left Out: 445.963+/-0.082 $\chi^2$/NDF:4752294.1/21

Right Out: 422.634+/-0.139 $\chi^2$/NDF: 4857932.7/17

Left In: 479.355+/-0.087 $\chi^2$/NDF:3961068.3/20

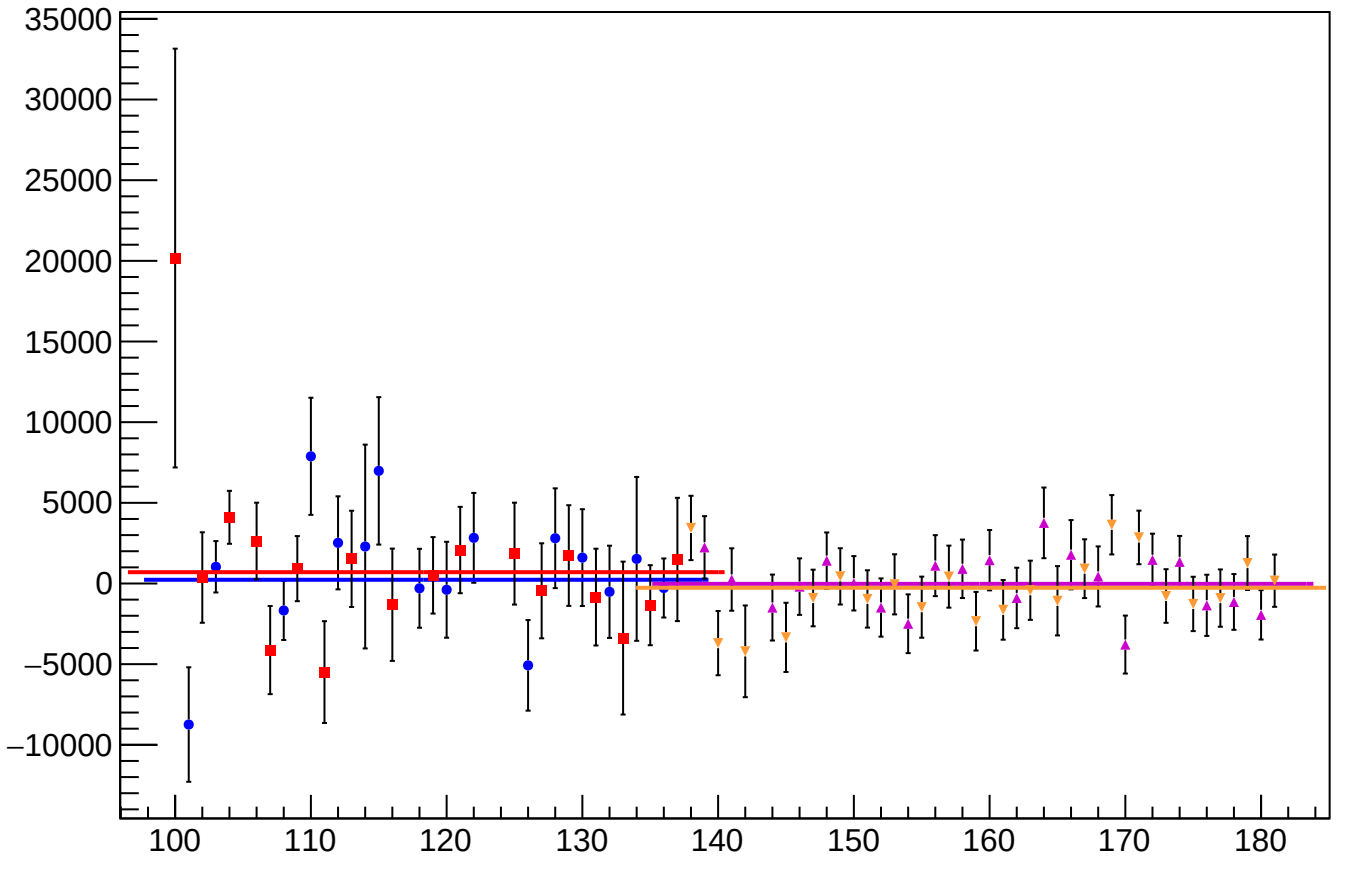
Left: 461.573+/-0.060 $\chi^2$/NDF: 8791194.4/42

Right: 483.366+/-0.111 $\chi^2$/NDF: 9275354.4/33

In: 499.797+/-0.079 $\chi^2$/NDF:8145103.4/36

Out: 439.929+/-0.070 $\chi^2$/NDF:9631246.5/39

All: 466.484+/-0.053 $\chi^2$/NDF: 18096555.9/76




Right In: 230.761+/-666.241 $\chi^2$/NDF: 20.7/15

Left Out: -265.239+/-392.459 $\chi^2$/NDF:23.4/21

Right Out: 702.268+/-648.319 $\chi^2$/NDF: 17.0/17

Left In: -22.465+/-396.121 $\chi^2$/NDF:18.7/20

Left: -144.979+/-278.796 $\chi^2$/NDF: 42.3/42

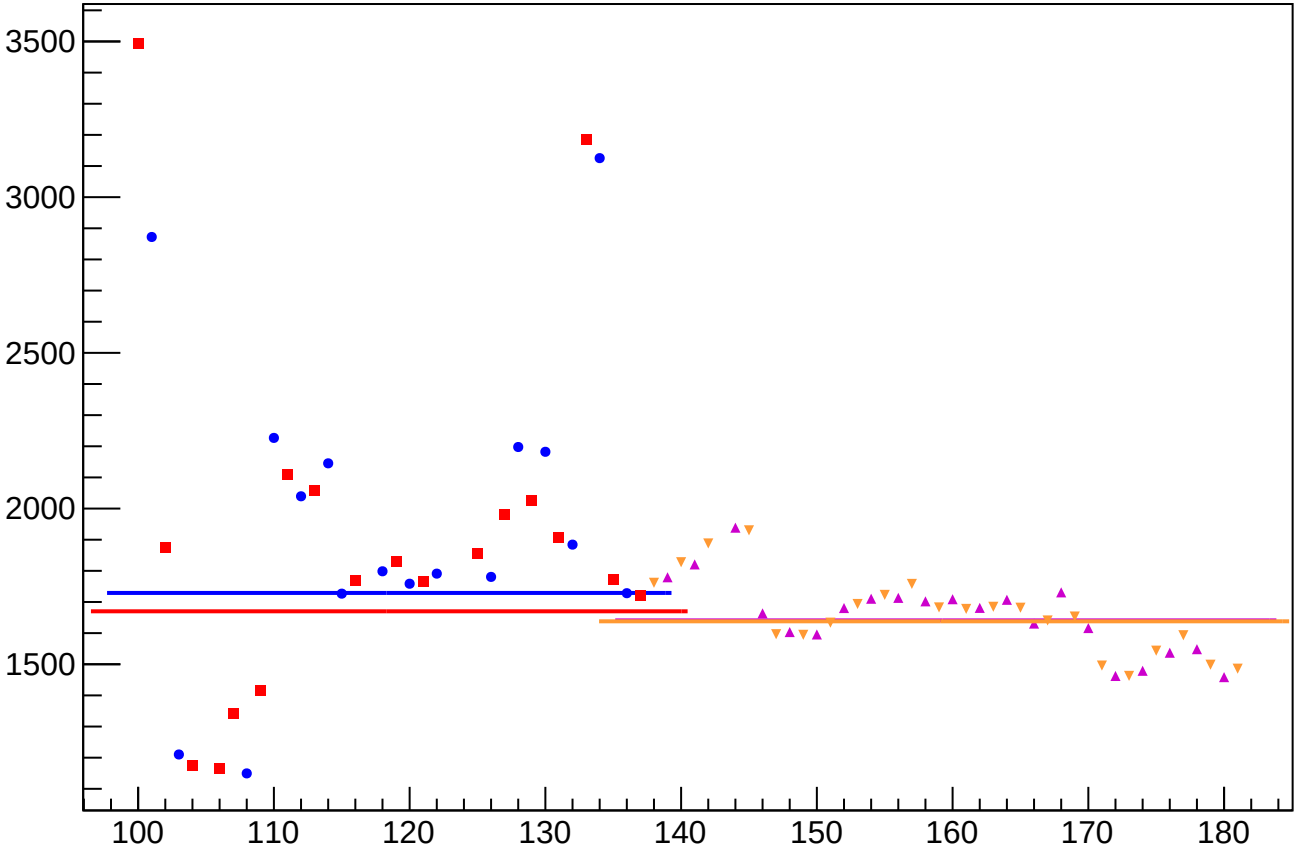
Right: 472.942+/-464.638 $\chi^2$/NDF: 38.0/33

In: 43.671+/-340.485 $\chi^2$/NDF:39.6/36

Out: -5.778+/-335.736 $\chi^2$/NDF:42.0/39

All: 18.600+/-239.063 $\chi^2$/NDF: 81.6/76

# asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected




Right In: 1729.050+/-0.471 $\chi^2$/NDF: 942079.1/15

Left Out: 1637.919+/-0.278 $\chi^2$/NDF:174849.3/21

Right Out: 1670.056+/-0.458 $\chi^2$/NDF: 744452.0/17

Left In: 1640.930+/-0.280 $\chi^2$/NDF:176815.2/20

Left: 1639.410+/-0.197 $\chi^2$/NDF: 351722.8/42

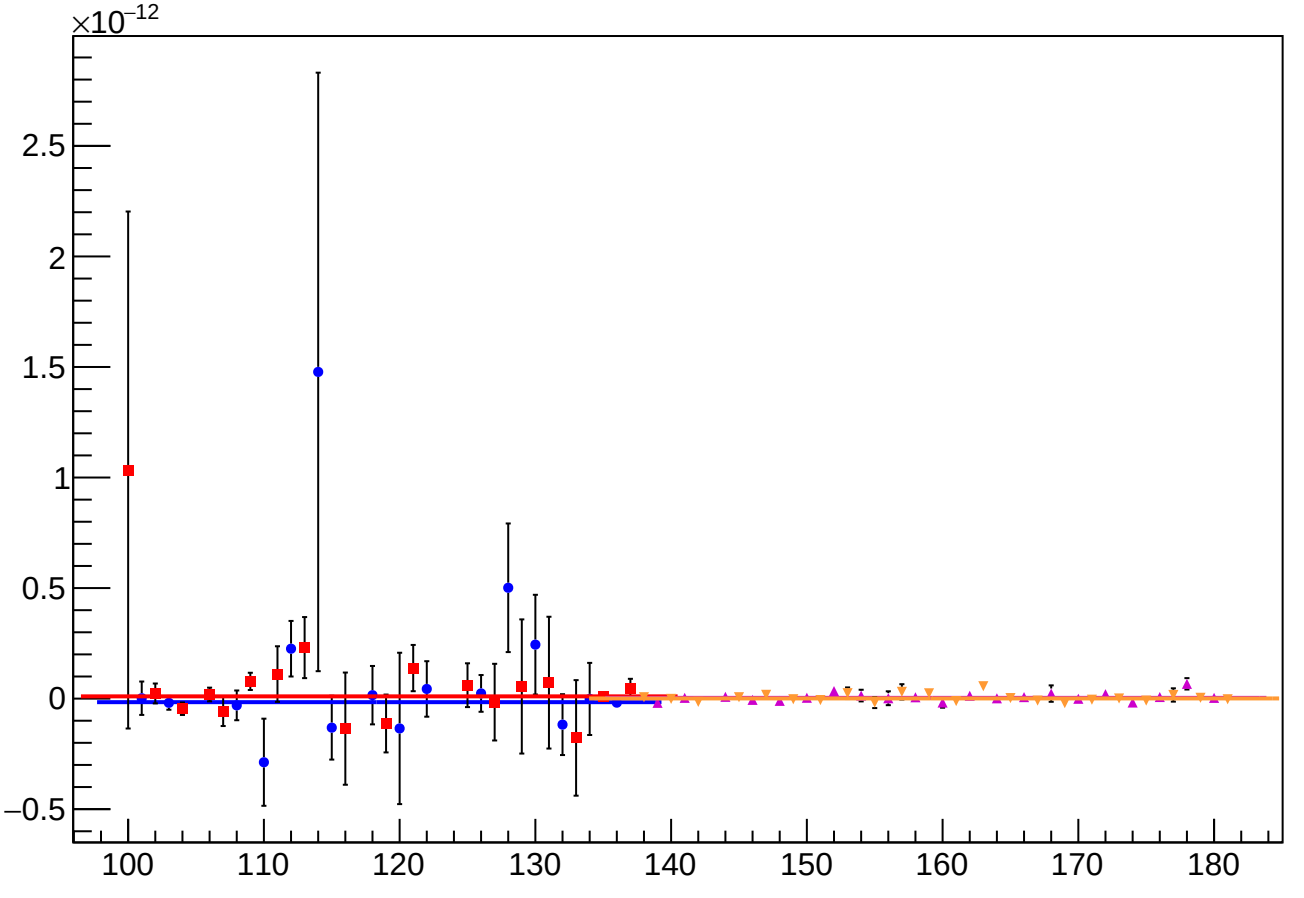
Right: 1698.749+/-0.329 $\chi^2$/NDF: 1694585.4/33

In: 1663.944+/-0.241 $\chi^2$/NDF:1144744.2/36

Out: 1646.537+/-0.237 $\chi^2$/NDF:922897.9/39

All: 1655.119+/-0.169 $\chi^2$/NDF: 2070292.5/76

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:16.8/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 35.3/42

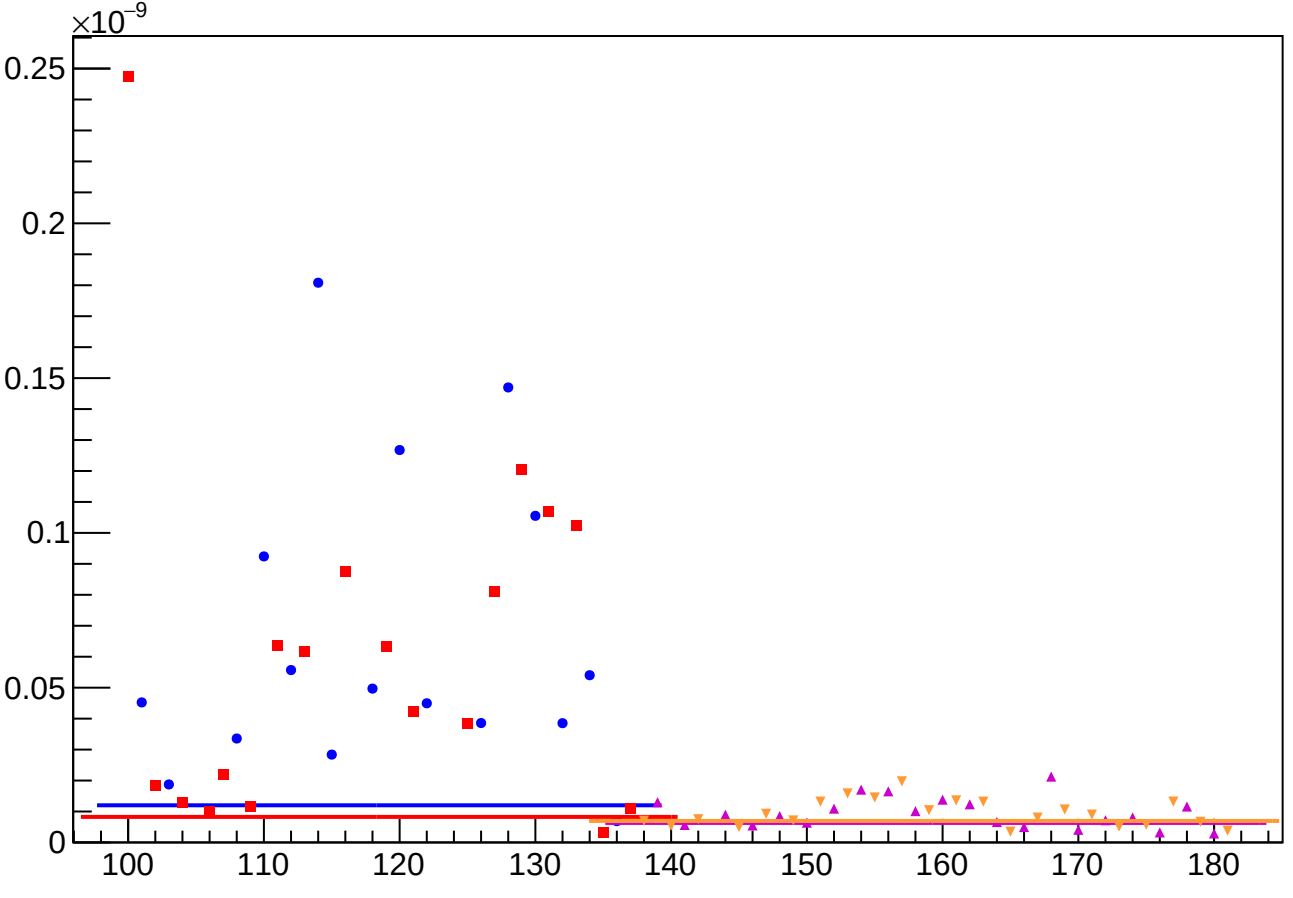
Right: -0.000+/-0.000 $\chi^2$/NDF: 33.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:34.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:34.3/39

All: 0.000+/-0.000 $\chi^2$/NDF: 69.1/76

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3425893.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2234282.2/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3510130.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2884777.6/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 5167680.0/42

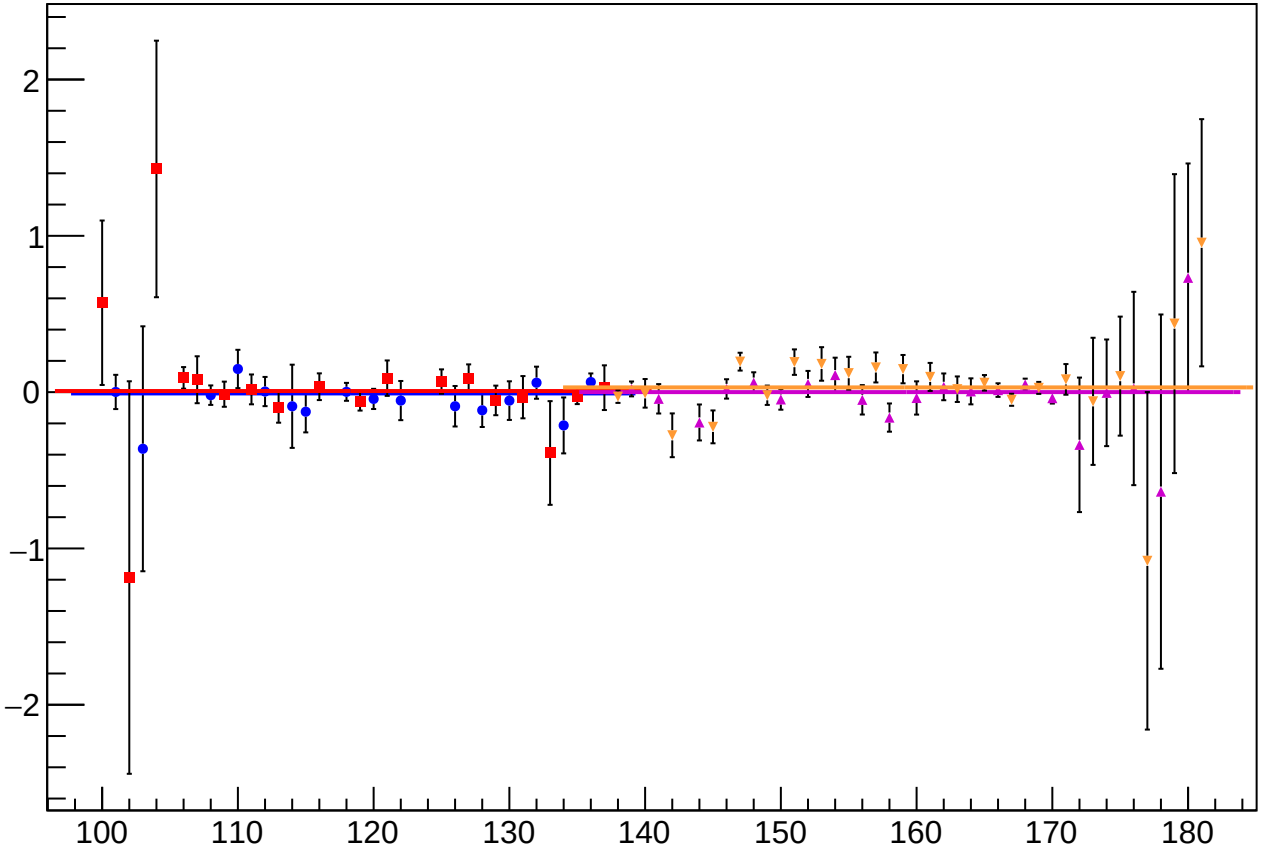
Right: 0.000+/-0.000 $\chi^2$/NDF: 7091803.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:6884899.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5784942.9/39

All: 0.000+/-0.000 $\chi^2$/NDF: 12688504.3/76

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.023 $\chi^2$/NDF: 8.3/15

Left Out: 0.030+/-0.015 $\chi^2$/NDF:40.1/21

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: 0.000+/-0.015 $\chi^2$/NDF:14.9/20

Left: 0.015+/-0.011 $\chi^2$/NDF: 56.9/42

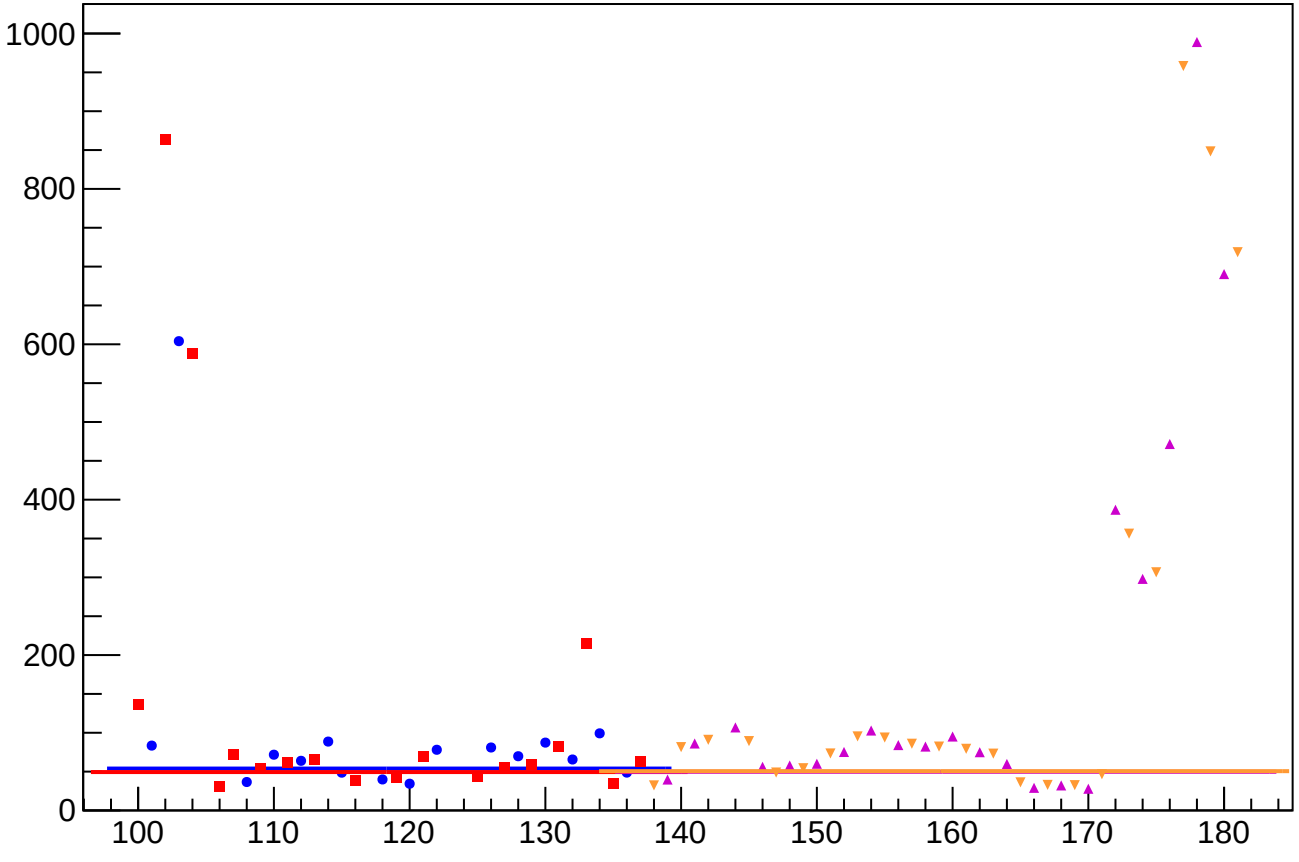
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.002+/-0.013 $\chi^2$/NDF:23.3/36

Out: 0.023+/-0.013 $\chi^2$/NDF:54.6/39

All: 0.010+/-0.009 $\chi^2$/NDF: 79.8/76

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 53.926+/-0.016 $\chi^2$/NDF: 2214348.1/15

Left Out: 50.570+/-0.011 $\chi^2$/NDF:10114767.5/21

Right Out: 49.420+/-0.016 $\chi^2$/NDF: 3017719.3/17

Left In: 49.740+/-0.011 $\chi^2$/NDF:10538067.5/20

Left: 50.149+/-0.008 $\chi^2$/NDF: 20655748.5/42

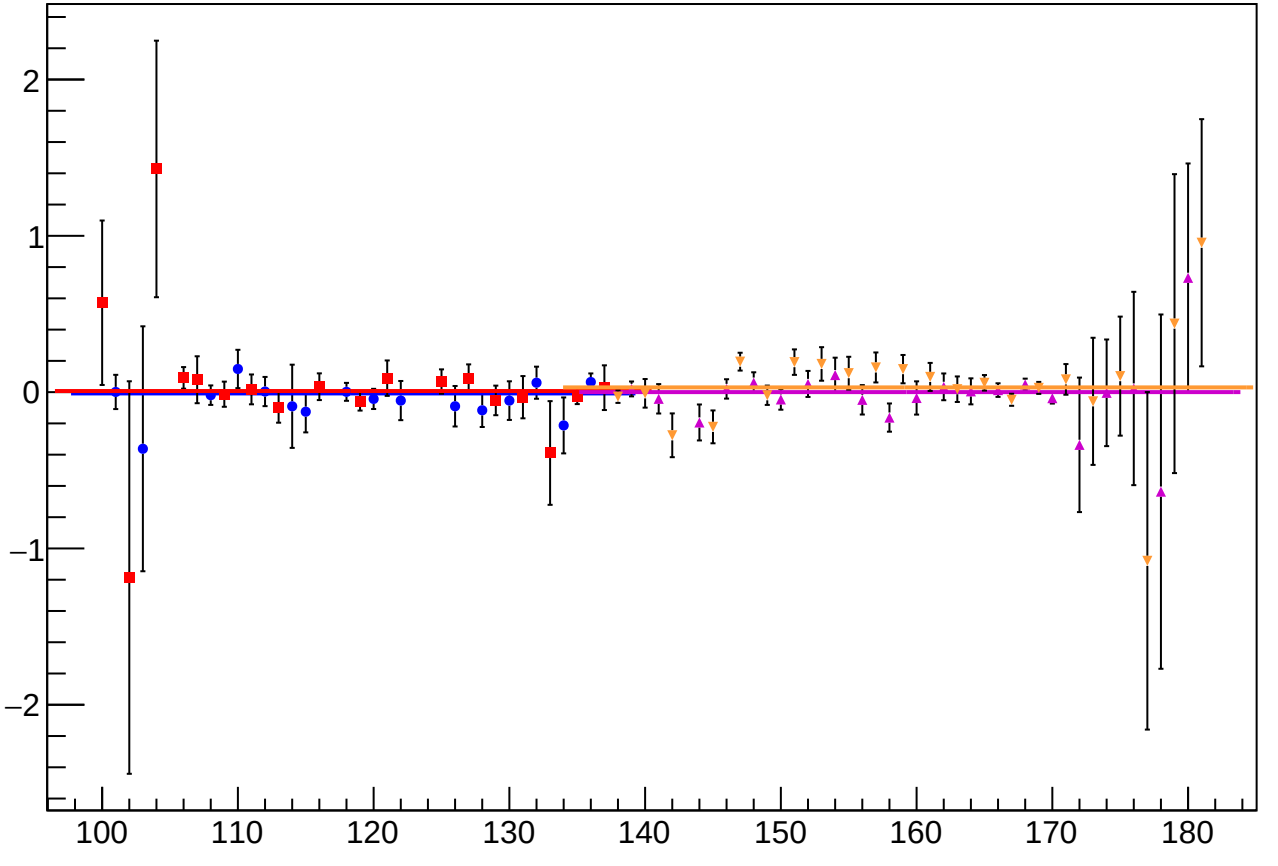
Right: 51.585+/-0.011 $\chi^2$/NDF: 5271581.7/33

In: 51.012+/-0.009 $\chi^2$/NDF:12798095.9/36

Out: 50.194+/-0.009 $\chi^2$/NDF:13136095.6/39

All: 50.602+/-0.006 $\chi^2$/NDF: 25938327.8/76

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.023 $\chi^2$/NDF: 8.3/15

Left Out: 0.030+/-0.015 $\chi^2$/NDF:40.1/21

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: 0.000+/-0.015 $\chi^2$/NDF:14.9/20

Left: 0.015+/-0.011 $\chi^2$/NDF: 56.9/42

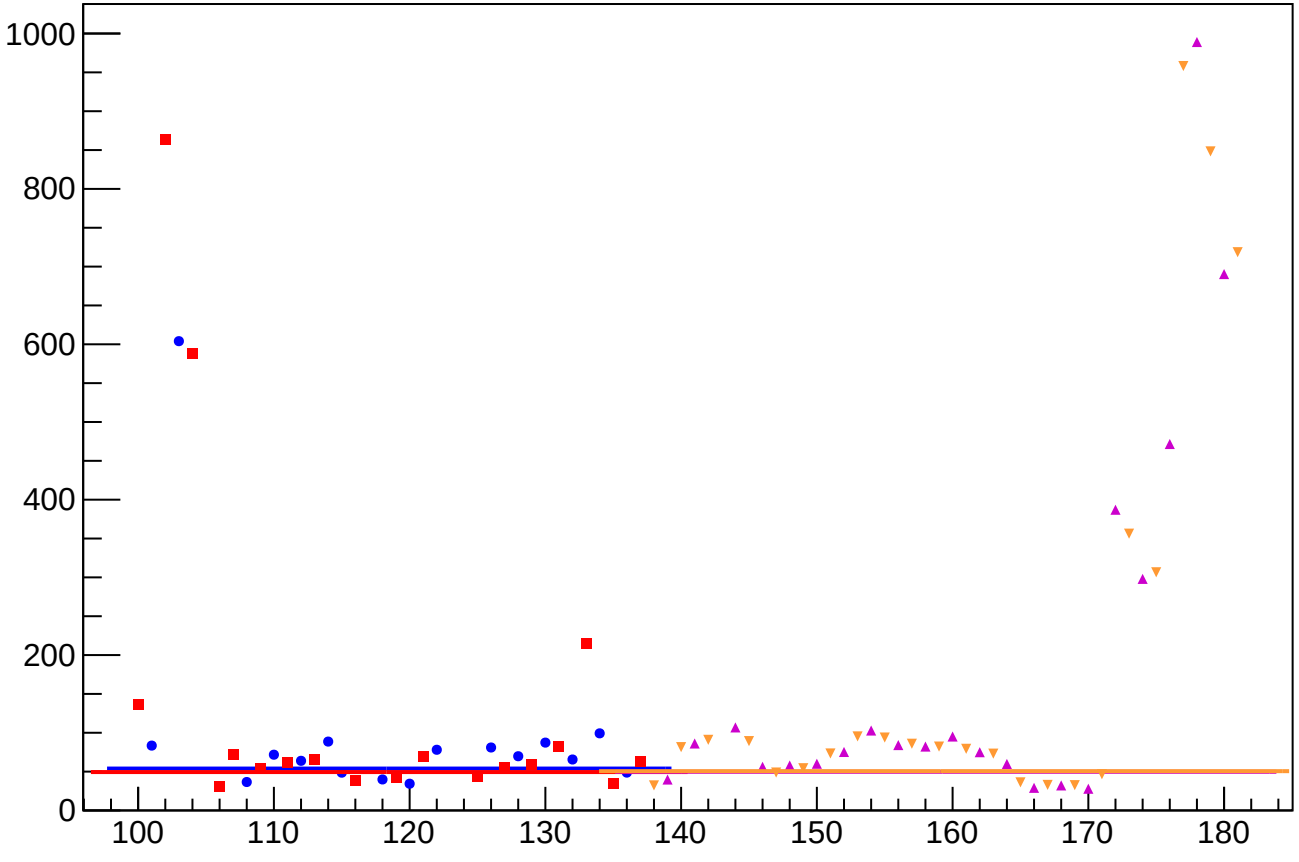
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.002+/-0.013 $\chi^2$/NDF:23.3/36

Out: 0.023+/-0.013 $\chi^2$/NDF:54.6/39

All: 0.010+/-0.009 $\chi^2$/NDF: 79.8/76

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 53.926+/-0.016 $\chi^2$/NDF: 2214348.1/15

Left Out: 50.570+/-0.011 $\chi^2$/NDF:10114767.5/21

Right Out: 49.420+/-0.016 $\chi^2$/NDF: 3017719.3/17

Left In: 49.740+/-0.011 $\chi^2$/NDF:10538067.5/20

Left: 50.149+/-0.008 $\chi^2$/NDF: 20655748.5/42

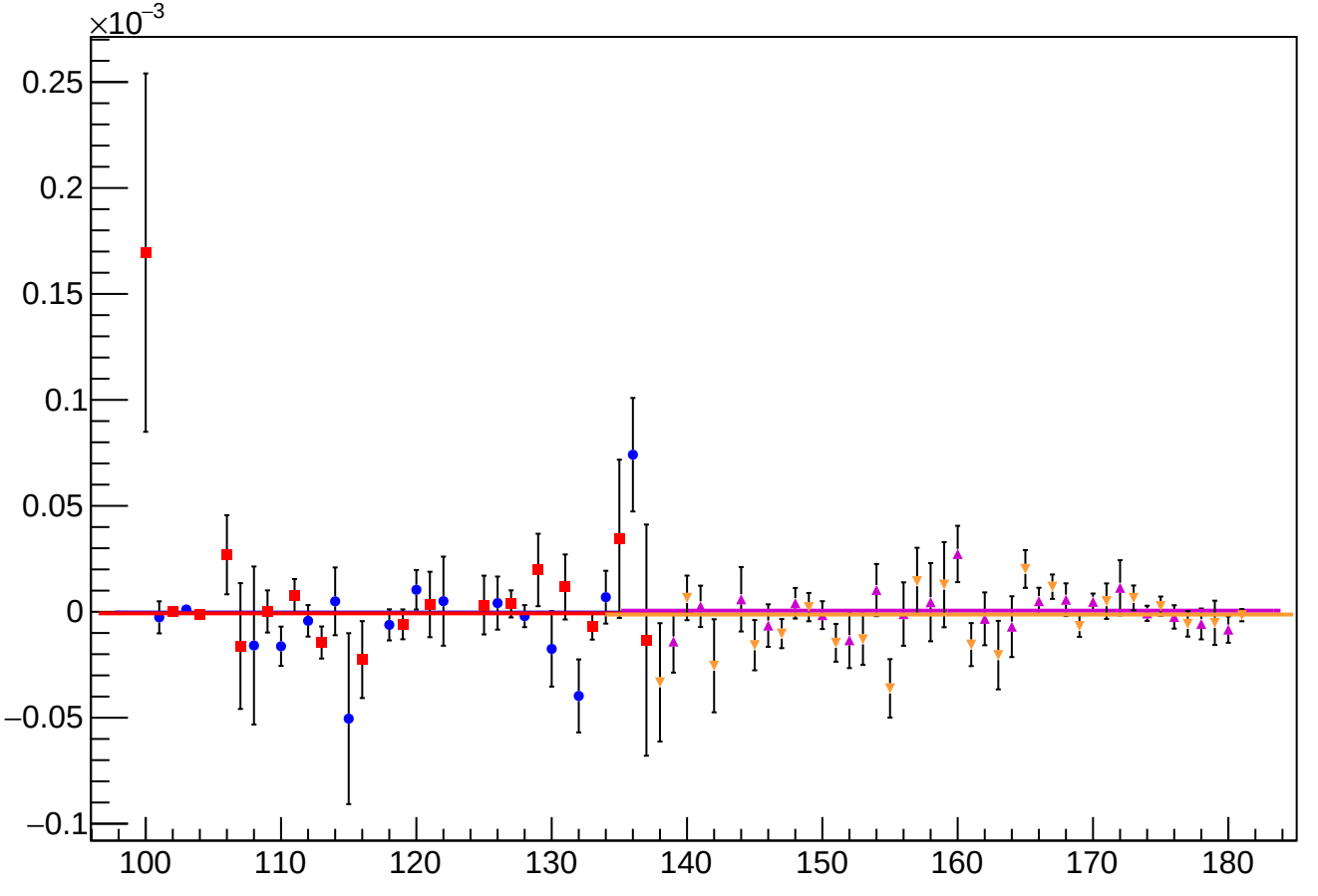
Right: 51.585+/-0.011 $\chi^2$/NDF: 5271581.7/33

In: 51.012+/-0.009 $\chi^2$/NDF:12798095.9/36

Out: 50.194+/-0.009 $\chi^2$/NDF:13136095.6/39

All: 50.602+/-0.006 $\chi^2$/NDF: 25938327.8/76

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:36.9/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.2/20

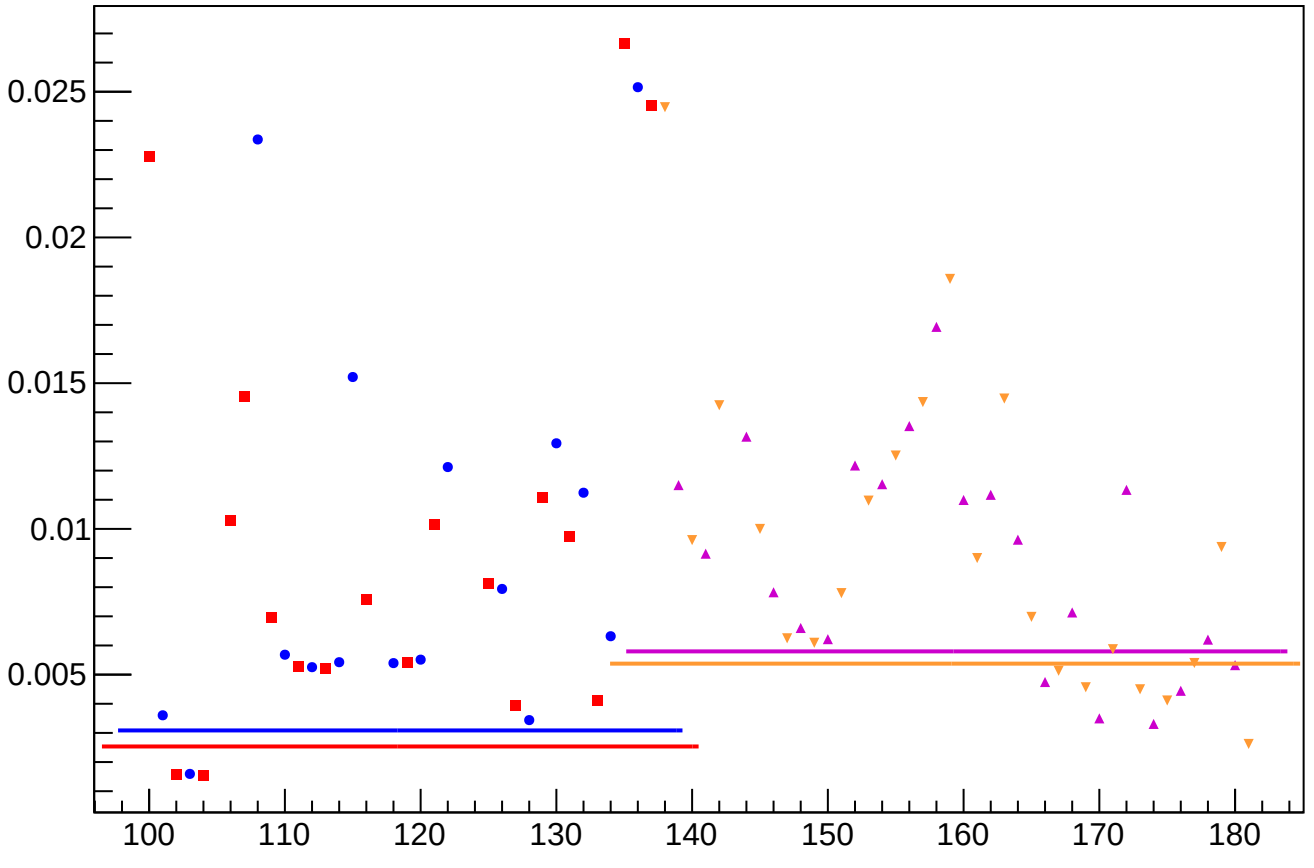
Left: -0.000+/-0.000 $\chi^2$/NDF: 51.8/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:36.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:54.8/39

All: -0.000+/-0.000 $\chi^2$/NDF: 91.8/76




Right In: 0.003+/-0.000 $\chi^2$/NDF: 5779108.6/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:7902003.2/21

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6237059.6/17

Left In: 0.006+/-0.000 $\chi^2$/NDF:6379271.9/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 14352916.3/42

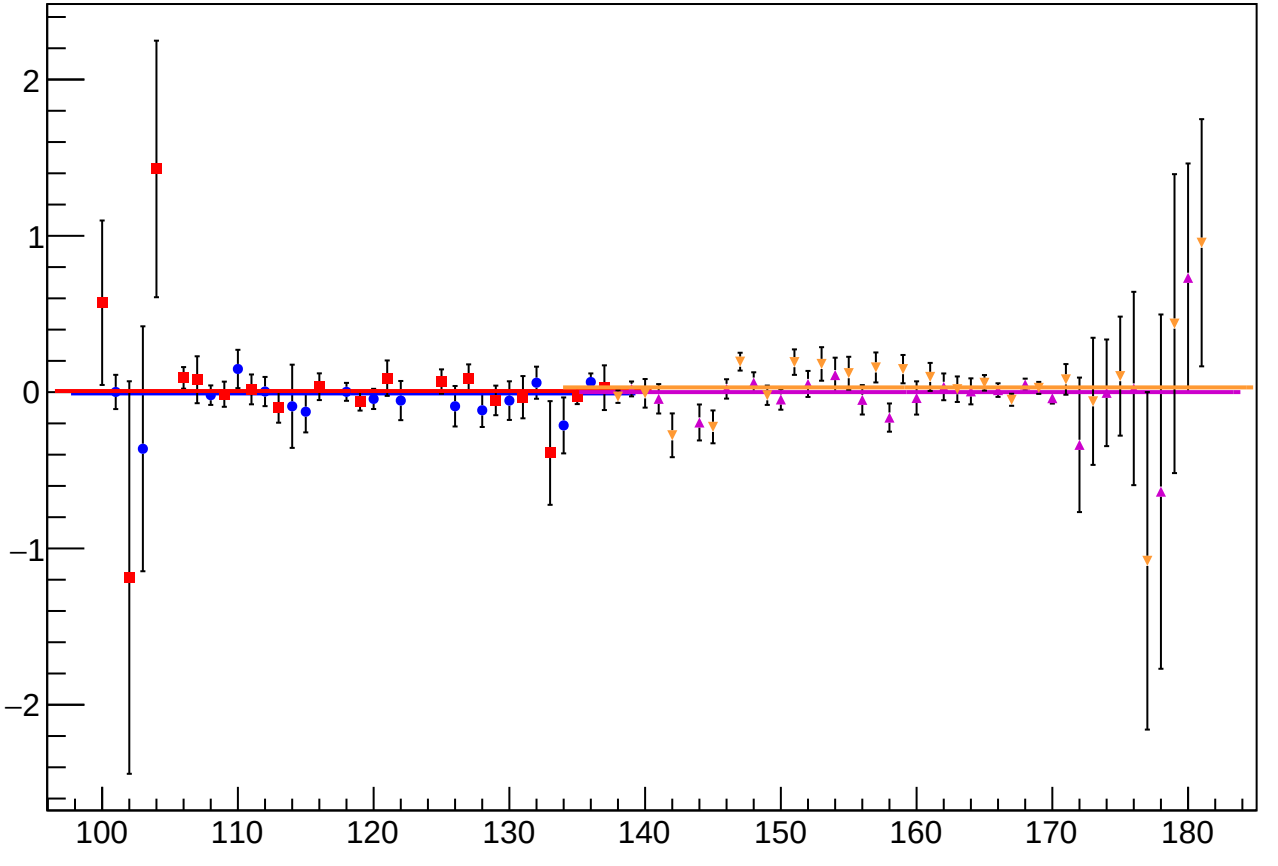
Right: 0.003+/-0.000 $\chi^2$/NDF: 12159145.0/33

In: 0.004+/-0.000 $\chi^2$/NDF:14944808.0/36

Out: 0.004+/-0.000 $\chi^2$/NDF:18288033.5/39

All: 0.004+/-0.000 $\chi^2$/NDF: 33695950.9/76

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.023 $\chi^2$/NDF: 8.3/15

Left Out: 0.030+/-0.015 $\chi^2$/NDF:40.1/21

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: 0.000+/-0.015 $\chi^2$/NDF:14.9/20

Left: 0.015+/-0.011 $\chi^2$/NDF: 56.9/42

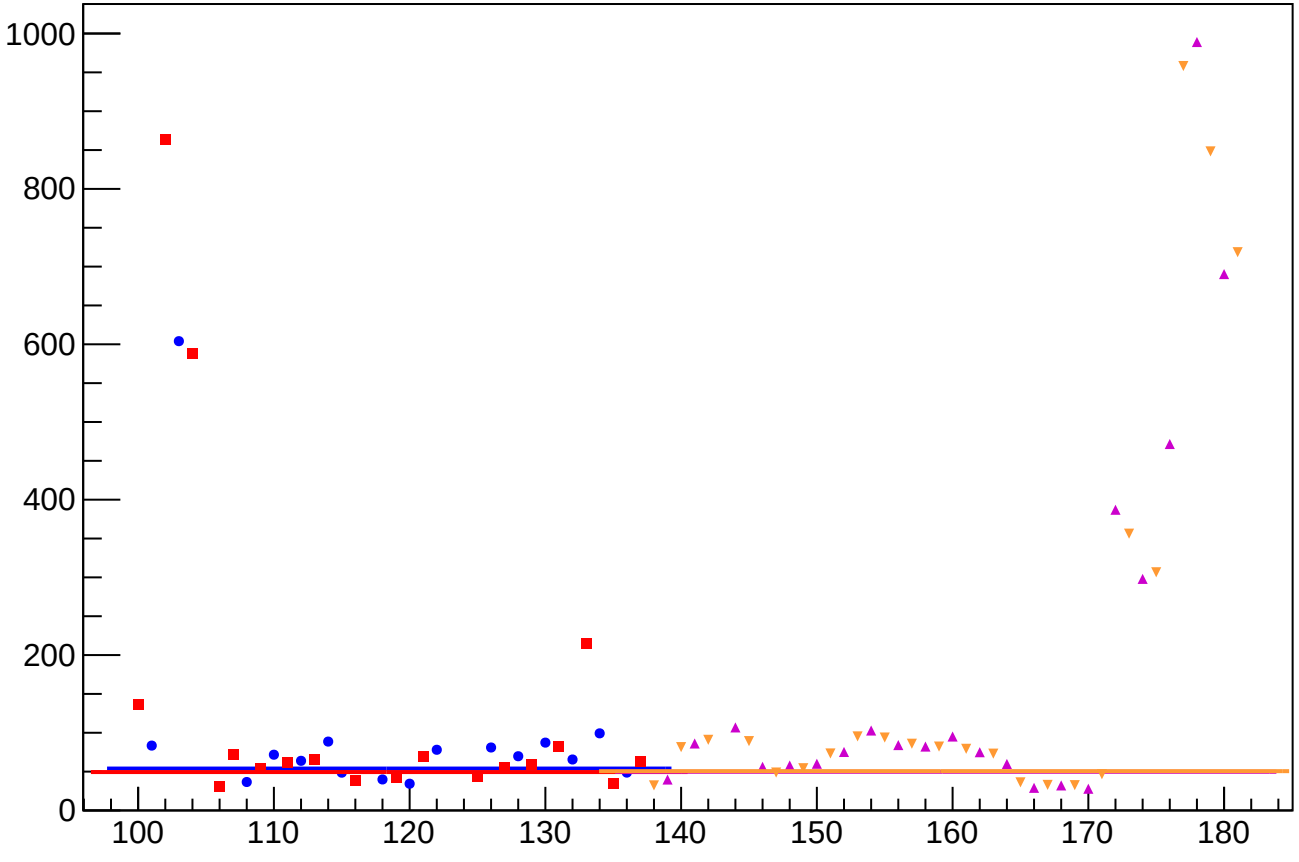
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.002+/-0.013 $\chi^2$/NDF:23.3/36

Out: 0.023+/-0.013 $\chi^2$/NDF:54.6/39

All: 0.010+/-0.009 $\chi^2$/NDF: 79.8/76

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 53.929+/-0.016 $\chi^2$/NDF: 2213950.2/15

Left Out: 50.573+/-0.011 $\chi^2$/NDF:10113953.6/21

Right Out: 49.422+/-0.016 $\chi^2$/NDF: 3017440.2/17

Left In: 49.740+/-0.011 $\chi^2$/NDF:10538005.1/20

Left: 50.151+/-0.008 $\chi^2$/NDF: 20654888.7/42

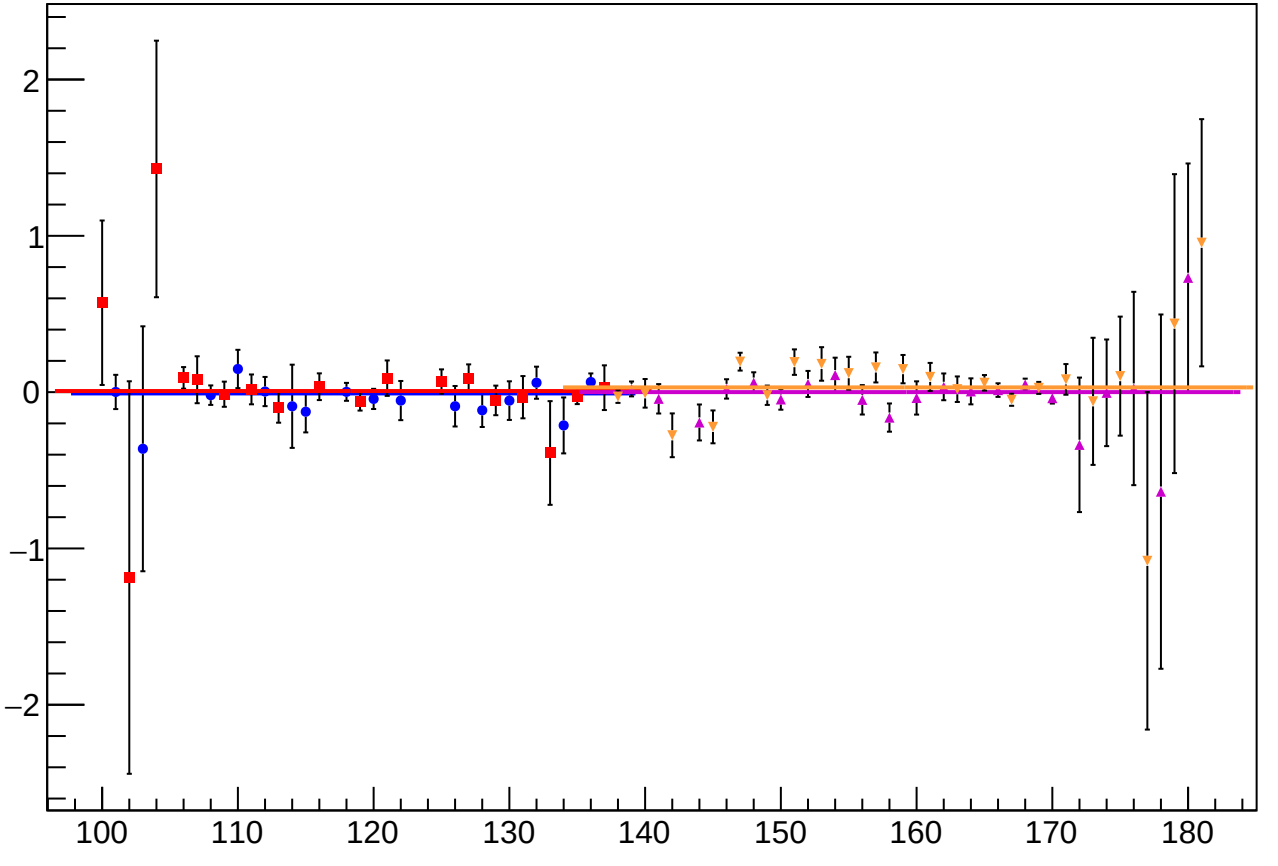
Right: 51.588+/-0.011 $\chi^2$/NDF: 5270924.4/33

In: 51.013+/-0.009 $\chi^2$/NDF:12797704.6/36

Out: 50.197+/-0.009 $\chi^2$/NDF:13135004.6/39

All: 50.604+/-0.006 $\chi^2$/NDF: 25936831.9/76

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.023 $\chi^2$/NDF: 8.3/15

Left Out: 0.030+/-0.015 $\chi^2$/NDF:40.1/21

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: 0.000+/-0.015 $\chi^2$/NDF:14.9/20

Left: 0.015+/-0.011 $\chi^2$/NDF: 56.9/42

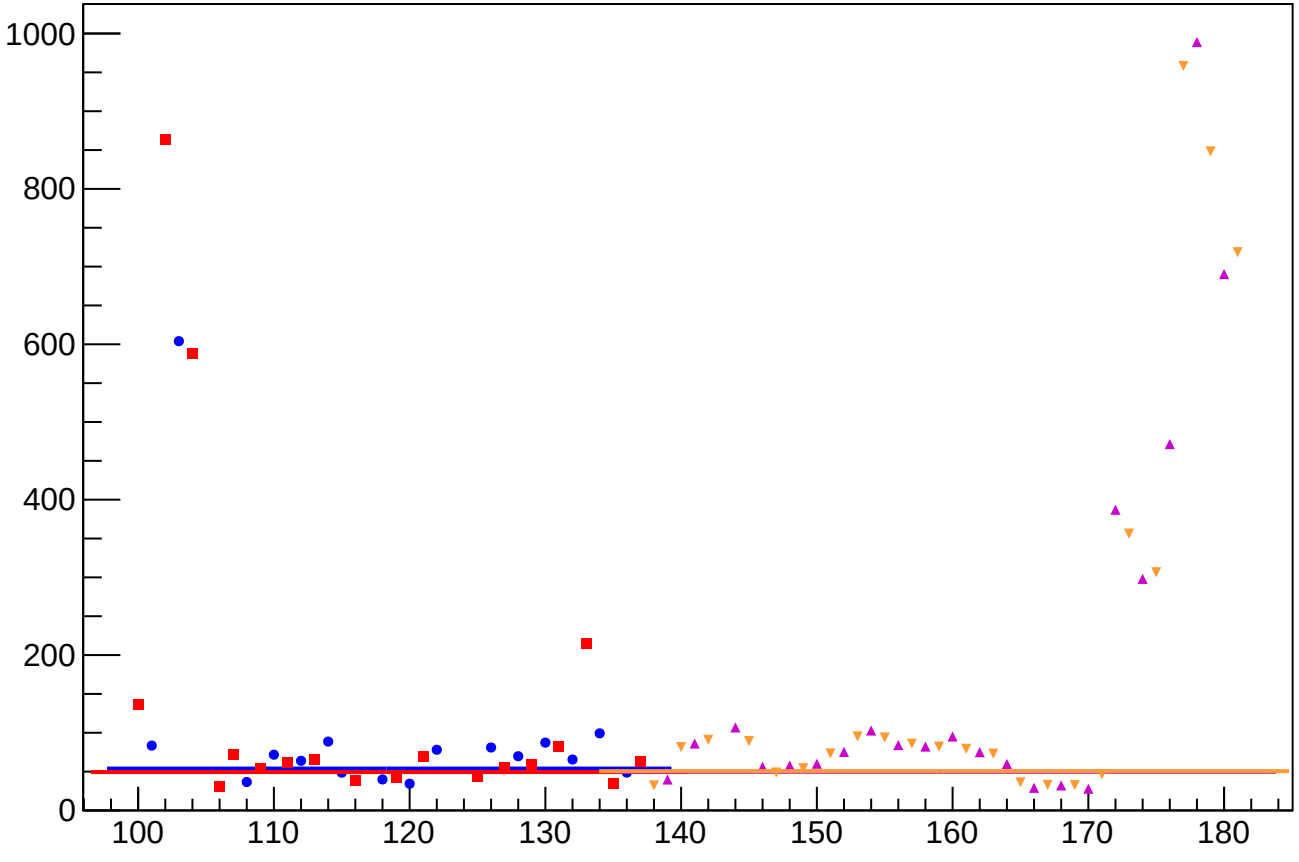
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.002+/-0.013 $\chi^2$/NDF:23.3/36

Out: 0.023+/-0.013 $\chi^2$/NDF:54.6/39

All: 0.010+/-0.009 $\chi^2$/NDF: 79.8/76

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 53.929+/-0.016 $\chi^2$/NDF: 2213950.2/15

Left Out: 50.573+/-0.011 $\chi^2$/NDF:10113953.6/21

Right Out: 49.422+/-0.016 $\chi^2$/NDF: 3017440.2/17

Left In: 49.740+/-0.011 $\chi^2$/NDF:10538005.1/20

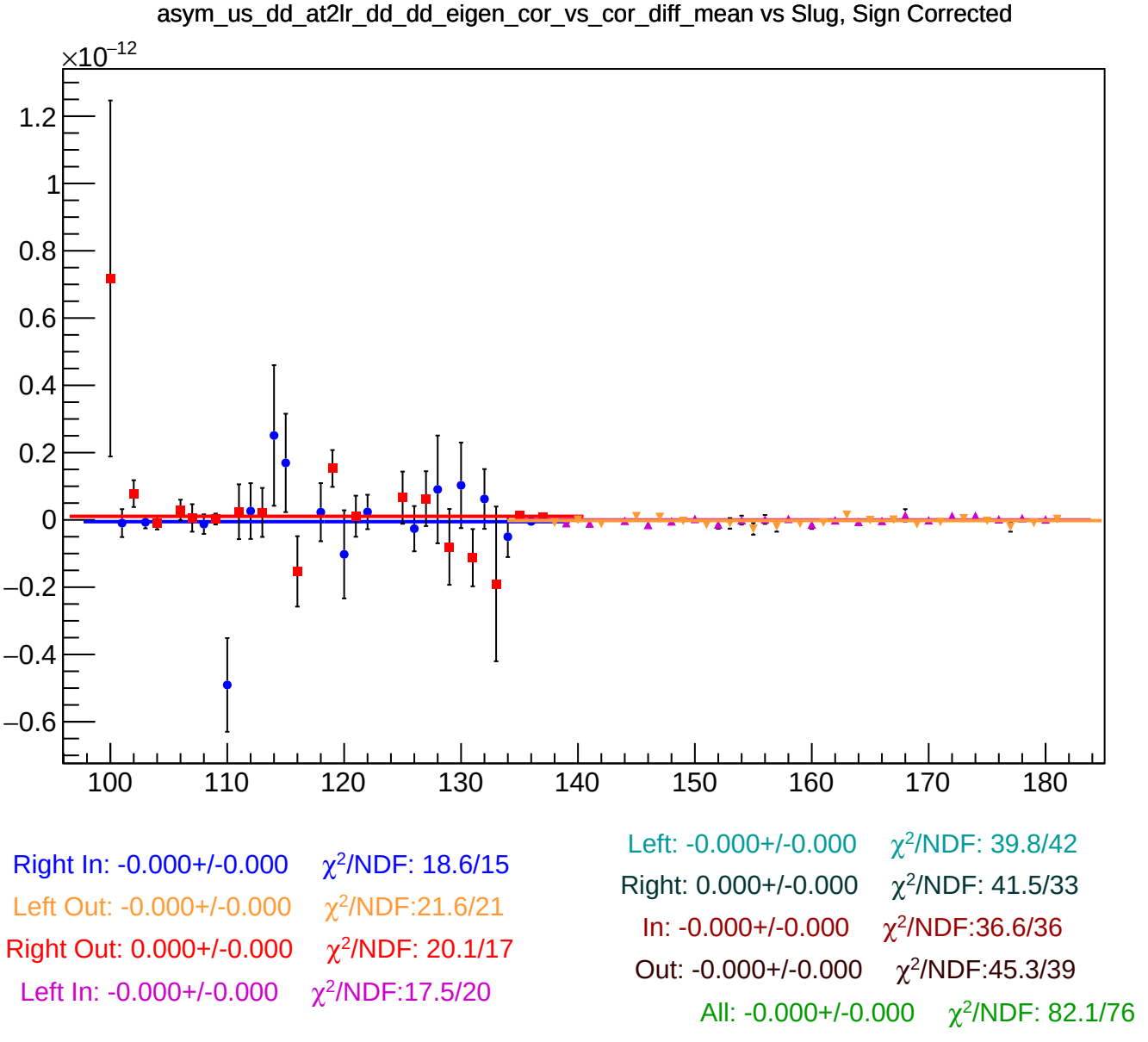
Left: 50.151+/-0.008 $\chi^2$/NDF: 20654888.7/42

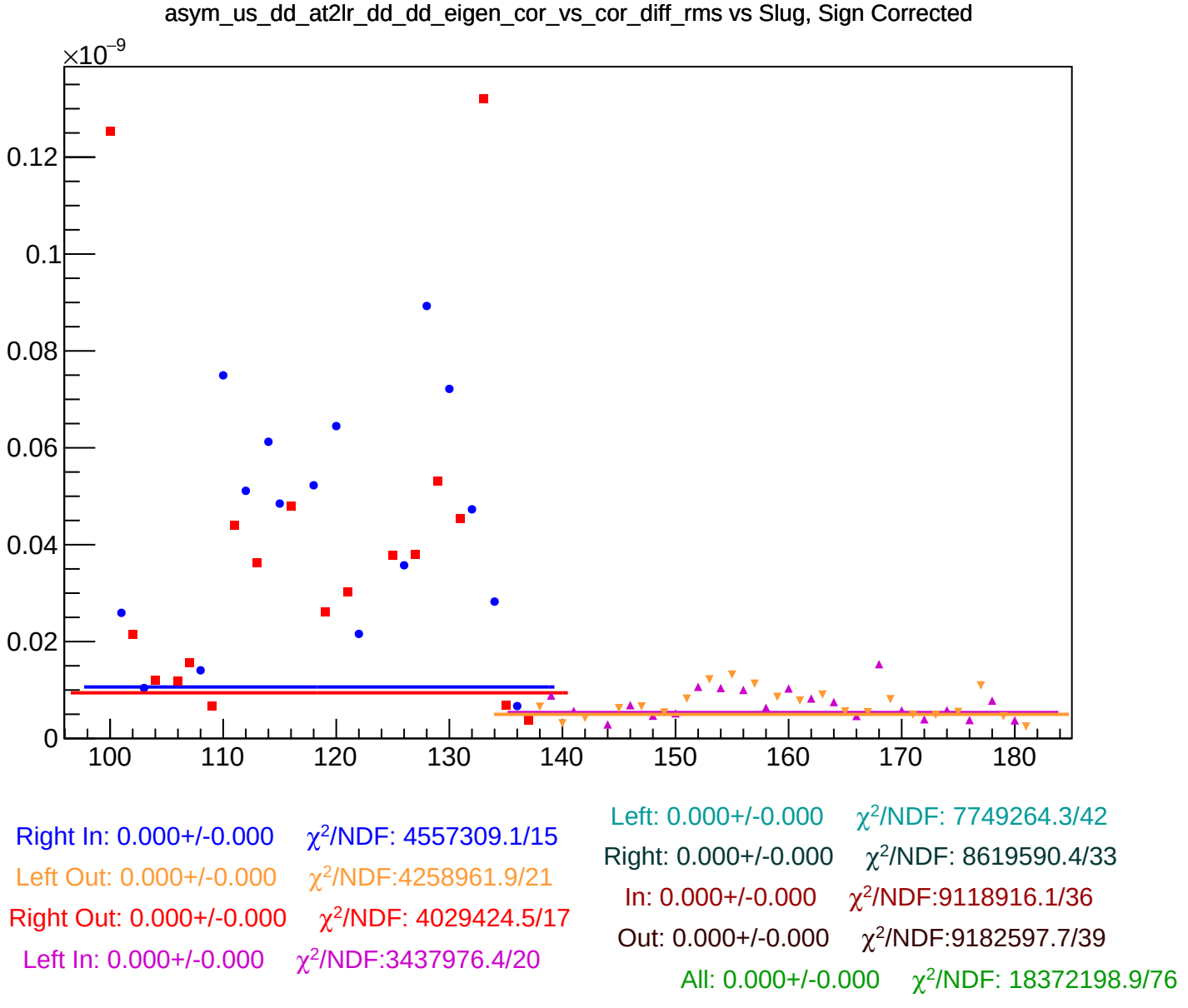
Right: 51.588+/-0.011 $\chi^2$/NDF: 5270924.4/33

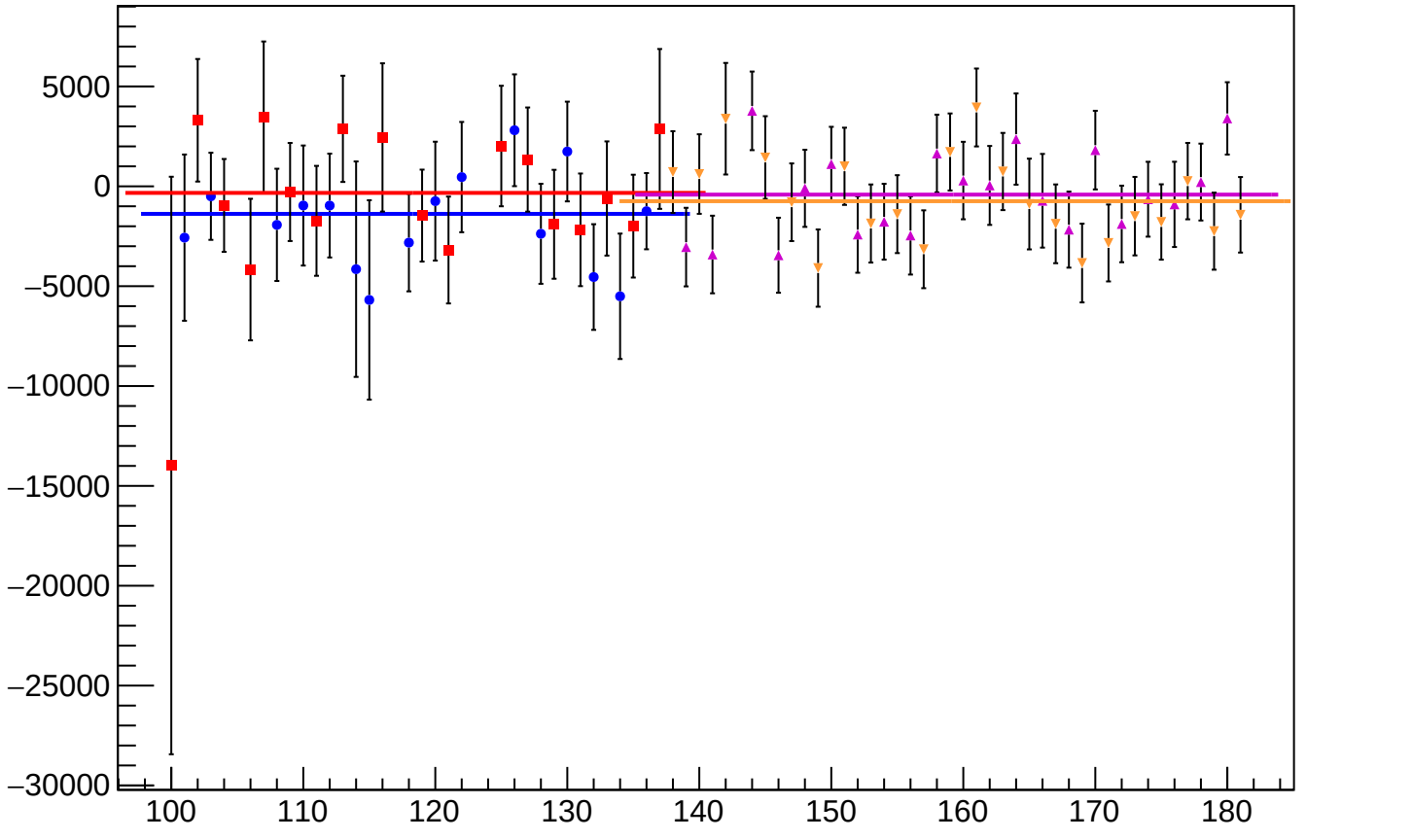
In: 51.013+/-0.009 $\chi^2$/NDF:12797704.6/36

Out: 50.197+/-0.009 $\chi^2$/NDF:13135004.6/39

All: 50.604+/-0.006 $\chi^2$/NDF: 25936831.9/76


asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 18.6/15
Left Out: -0.000+/-0.000 χ²/NDF:21.6/21
Right Out: 0.000+/-0.000 χ²/NDF: 20.1/17
Left In: -0.000+/-0.000 χ²/NDF:17.5/20
Left: -0.000+/-0.000 χ²/NDF: 39.8/42
Right: 0.000+/-0.000 χ²/NDF: 41.5/33
In: -0.000+/-0.000 χ²/NDF:36.6/36
Out: -0.000+/-0.000 χ²/NDF:45.3/39
All: -0.000+/-0.000 χ²/NDF: 82.1/76


asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 4557309.1/15
Left Out: 0.000+/-0.000 χ²/NDF:4258961.9/21
Right Out: 0.000+/-0.000 χ²/NDF: 4029424.5/17
Left In: 0.000+/-0.000 χ²/NDF:3437976.4/20
Left: 0.000+/-0.000 χ²/NDF: 7749264.3/42
Right: 0.000+/-0.000 χ²/NDF: 8619590.4/33
In: 0.000+/-0.000 χ²/NDF:9118916.1/36
Out: 0.000+/-0.000 χ²/NDF:9182597.7/39
All: 0.000+/-0.000 χ²/NDF: 18372198.9/76




Right In: -1378.758+/-689.030 $\chi^2$/NDF: 9.3/15

Left Out: -744.025+/-423.399 $\chi^2$/NDF:23.5/21

Right Out: -328.770+/-683.888 $\chi^2$/NDF: 11.0/17

Left In: -415.624+/-427.334 $\chi^2$/NDF:24.8/20

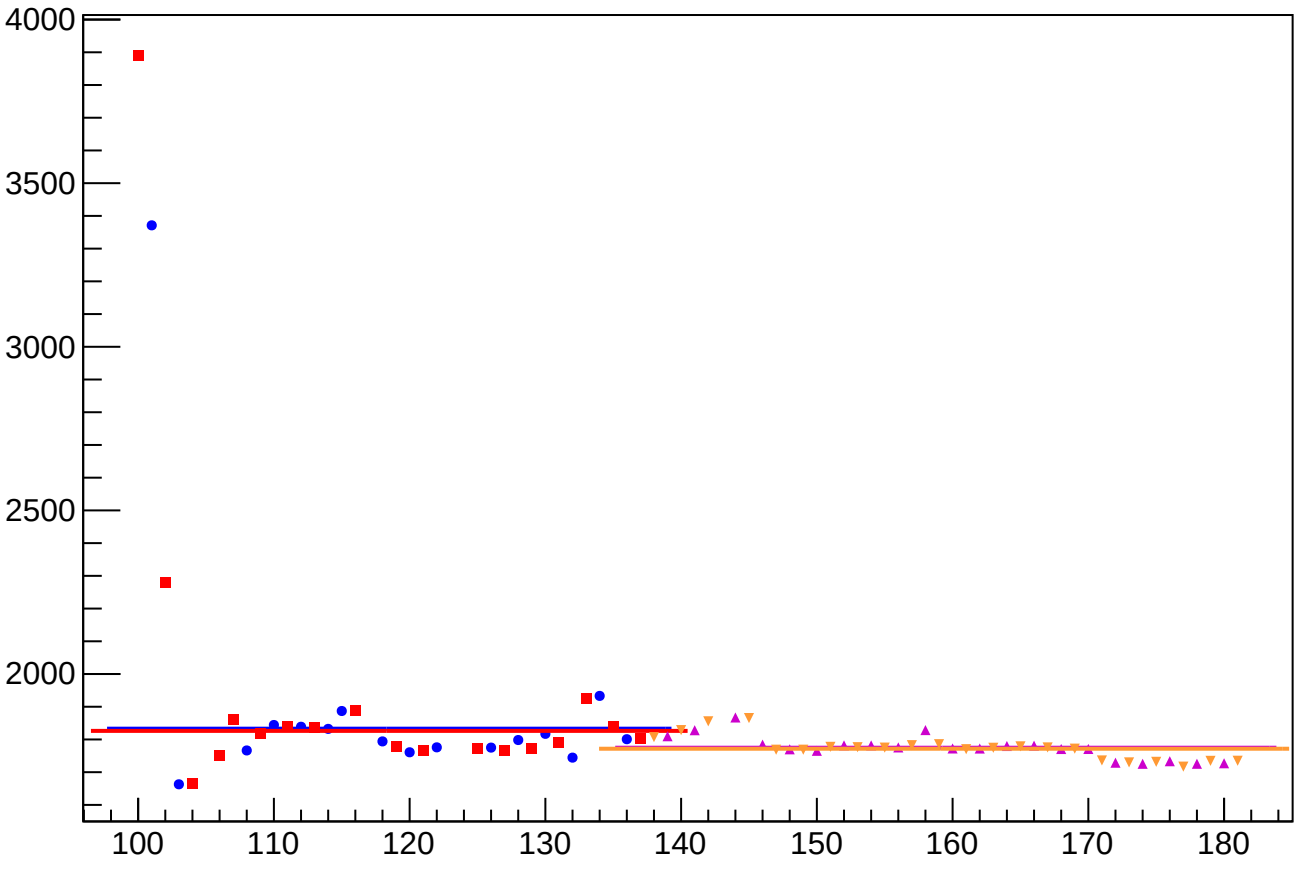
Left: -581.343+/-300.770 $\chi^2$/NDF: 48.7/42

Right: -849.832+/-485.390 $\chi^2$/NDF: 21.5/33

In: -683.176+/-363.160 $\chi^2$/NDF:35.6/36

Out: -628.963+/-359.992 $\chi^2$/NDF:34.8/39

All: -655.832+/-255.666 $\chi^2$/NDF: 70.4/76




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295439.4/15

Left Out: 1771.688+/-0.299 $\chi^2$/NDF:14006.2/21

Right Out: 1826.208+/-0.484 $\chi^2$/NDF: 103006.6/17

Left In: 1774.759+/-0.302 $\chi^2$/NDF:14248.2/20

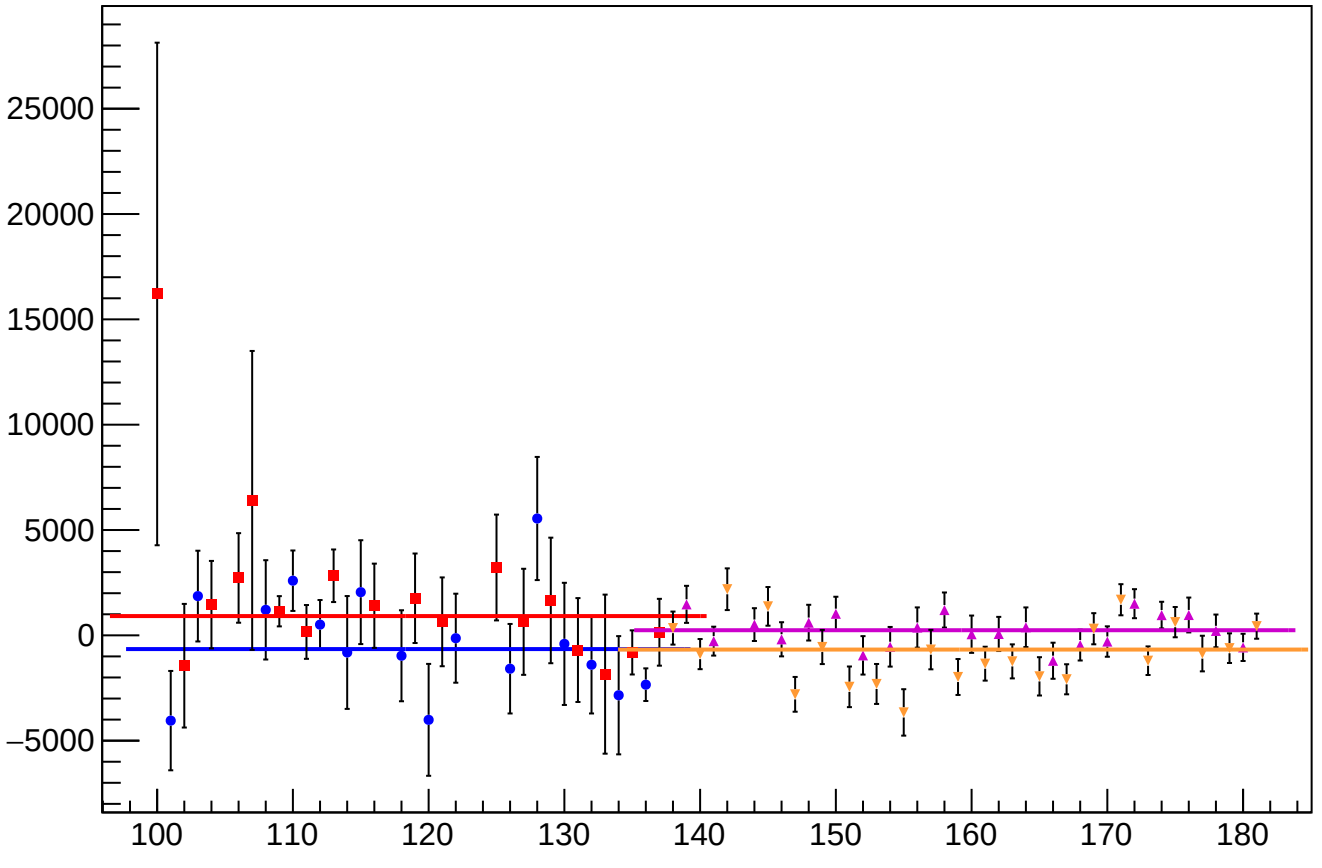
Left: 1773.209+/-0.213 $\chi^2$/NDF: 28306.4/42

Right: 1829.552+/-0.343 $\chi^2$/NDF: 398542.3/33

In: 1790.923+/-0.257 $\chi^2$/NDF:319988.7/36

Out: 1786.795+/-0.255 $\chi^2$/NDF:126201.5/39

All: 1788.841+/-0.181 $\chi^2$/NDF: 446320.5/76




Right In: -651.944+/-442.135 $\chi^2$/NDF: 23.2/15

Left Out: -674.938+/-170.127 $\chi^2$/NDF:64.3/21

Right Out: 914.717+/-393.421 $\chi^2$/NDF: 11.5/17

Left In: 243.288+/-172.576 $\chi^2$/NDF:19.2/20

Left: -222.387+/-121.155 $\chi^2$/NDF: 97.9/42

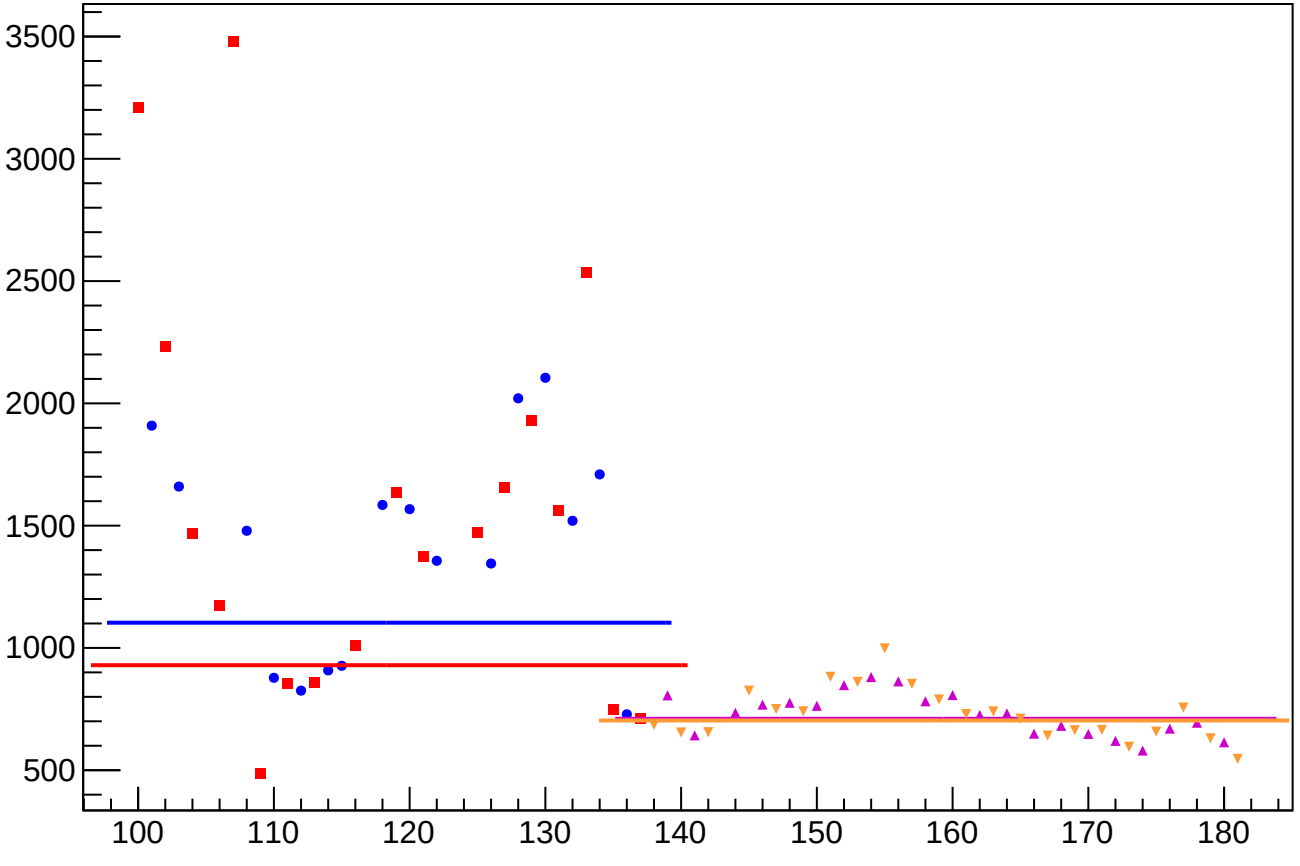
Right: 222.415+/-293.910 $\chi^2$/NDF: 41.8/33

In: 124.928+/-160.764 $\chi^2$/NDF:46.0/36

Out: -424.509+/-156.153 $\chi^2$/NDF:89.6/39

All: -157.783+/-112.011 $\chi^2$/NDF: 141.6/76

asym_us_dd_atlr_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1103.183+/-0.313 $\chi^2$/NDF: 1878176.1/15

Left Out: 703.389+/-0.120 $\chi^2$/NDF:658087.7/21

Right Out: 929.356+/-0.278 $\chi^2$/NDF: 3054092.4/17

Left In: 710.212+/-0.122 $\chi^2$/NDF:475734.4/20

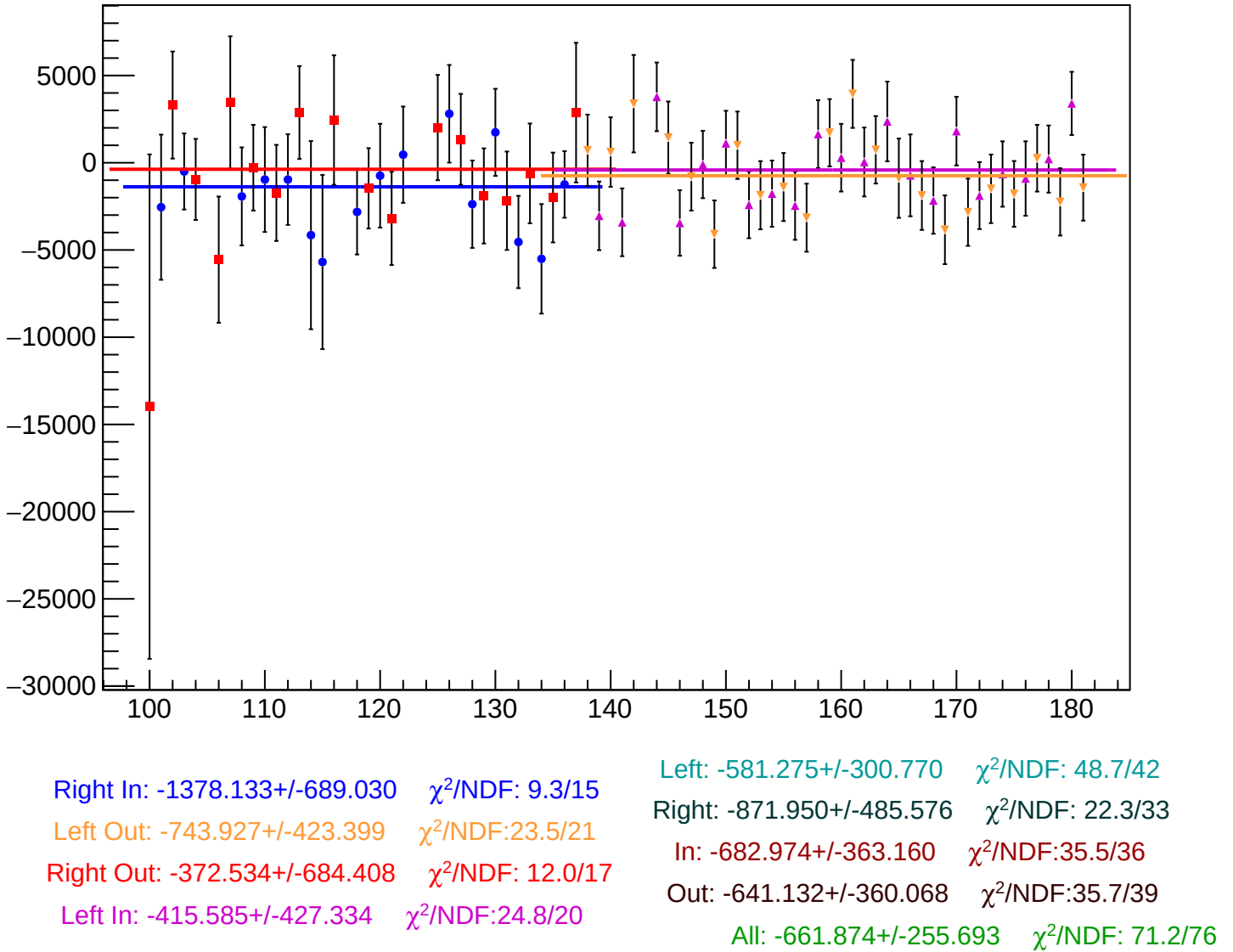
Left: 706.752+/-0.086 $\chi^2$/NDF: 1135407.9/42

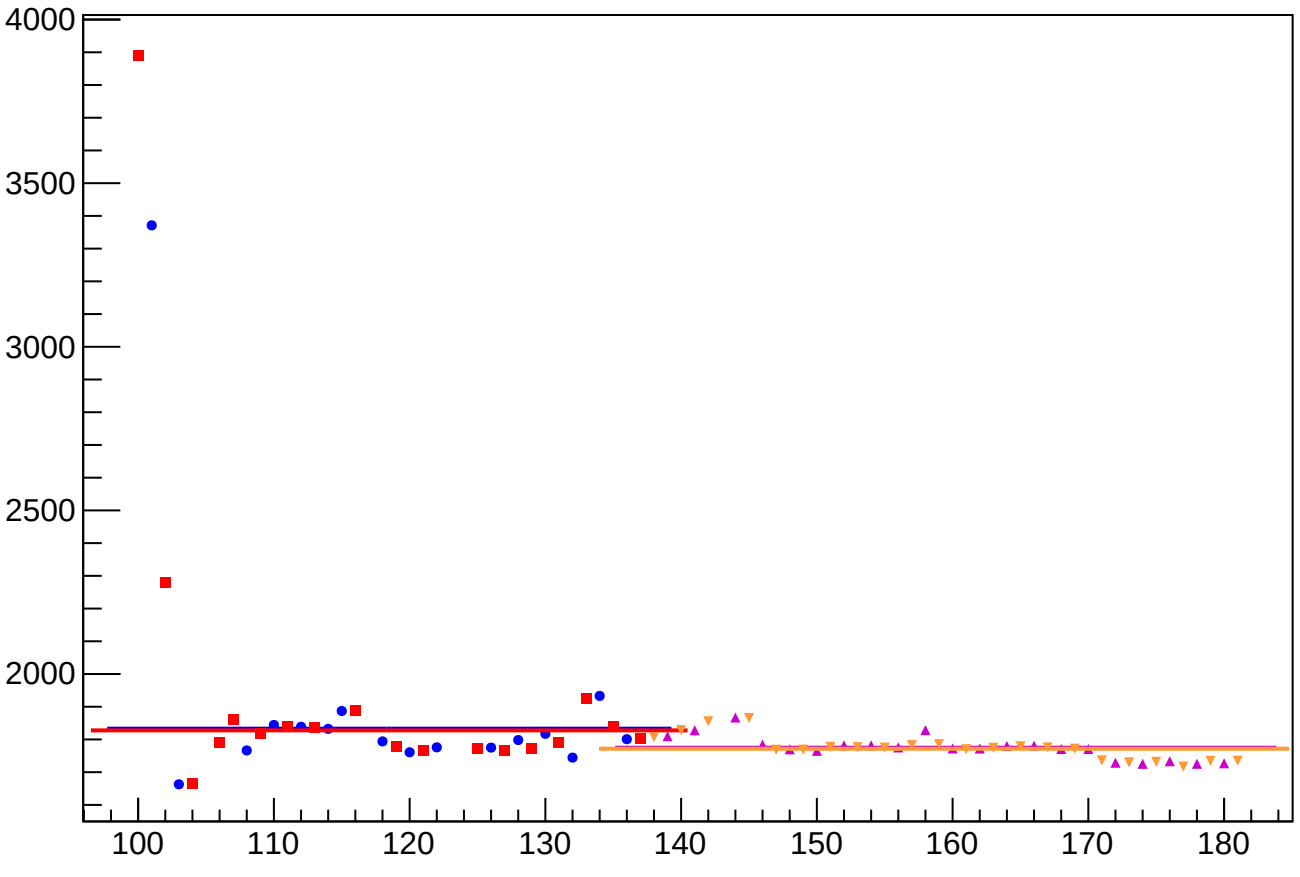
Right: 1006.170+/-0.208 $\chi^2$/NDF: 5104800.3/33

In: 762.167+/-0.114 $\chi^2$/NDF:3724967.7/36

Out: 738.987+/-0.110 $\chi^2$/NDF:4268030.9/39

All: 750.240+/-0.079 $\chi^2$/NDF: 8014394.2/76


cor_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
110
120
130
140
150
160
170
180
Right In: -1378.133+/-689.030 χ²/NDF: 9.3/15
Left Out: -743.927+/-423.399 χ²/NDF:23.5/21
Right Out: -372.534+/-684.408 χ²/NDF: 12.0/17
Left In: -415.585+/-427.334 χ²/NDF:24.8/20
Left: -581.275+/-300.770 χ²/NDF: 48.7/42
Right: -871.950+/-485.576 χ²/NDF: 22.3/33
In: -682.974+/-363.160 χ²/NDF:35.5/36
Out: -641.132+/-360.068 χ²/NDF:35.7/39
All: -661.874+/-255.693 χ²/NDF: 71.2/76




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295441.2/15

Left Out: 1771.688+/-0.299 $\chi^2$/NDF:14006.1/21

Right Out: 1827.785+/-0.484 $\chi^2$/NDF: 102270.3/17

Left In: 1774.759+/-0.302 $\chi^2$/NDF:14248.2/20

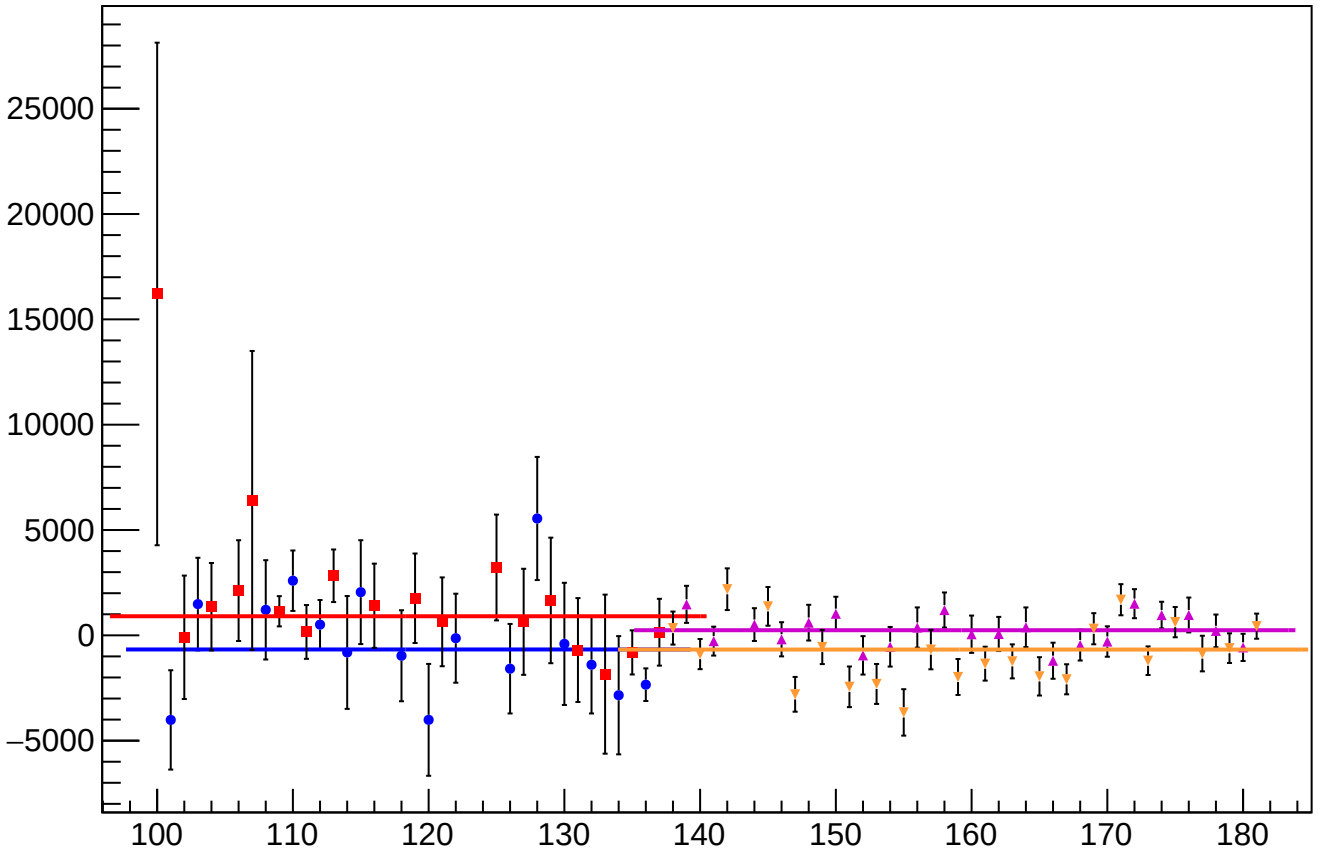
Left: 1773.209+/-0.213 $\chi^2$/NDF: 28306.4/42

Right: 1830.348+/-0.343 $\chi^2$/NDF: 397768.0/33

In: 1790.923+/-0.257 $\chi^2$/NDF:319990.5/36

Out: 1787.215+/-0.255 $\chi^2$/NDF:125993.8/39

All: 1789.053+/-0.181 $\chi^2$/NDF: 446089.4/76




Right In: -670.539+/-442.505 $\chi^2$/NDF: 22.8/15

Left Out: -674.936+/-170.128 $\chi^2$/NDF:64.3/21

Right Out: 905.874+/-394.814 $\chi^2$/NDF: 10.5/17

Left In: 243.215+/-172.578 $\chi^2$/NDF:19.2/20

Left: -222.422+/-121.156 $\chi^2$/NDF: 97.9/42

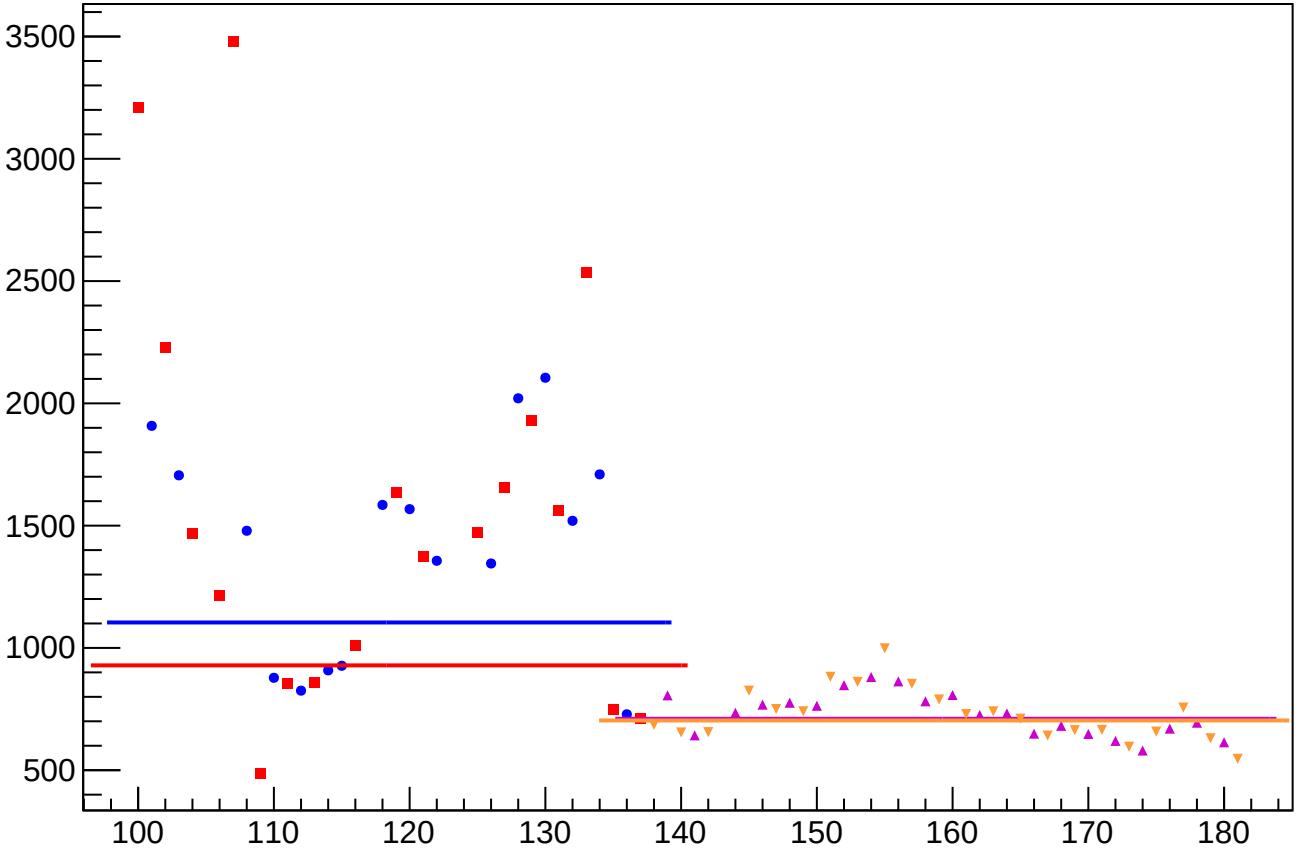
Right: 207.164+/-294.599 $\chi^2$/NDF: 40.3/33

In: 122.581+/-160.783 $\chi^2$/NDF:45.7/36

Out: -427.377+/-156.240 $\chi^2$/NDF:88.3/39

All: -160.277+/-112.050 $\chi^2$/NDF: 140.0/76

asym_us_dd_atlr_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1104.103+/-0.313 $\chi^2$/NDF: 1894482.2/15

Left Out: 703.393+/-0.120 $\chi^2$/NDF:658040.0/21

Right Out: 928.629+/-0.279 $\chi^2$/NDF: 3054381.5/17

Left In: 710.218+/-0.122 $\chi^2$/NDF:475741.7/20

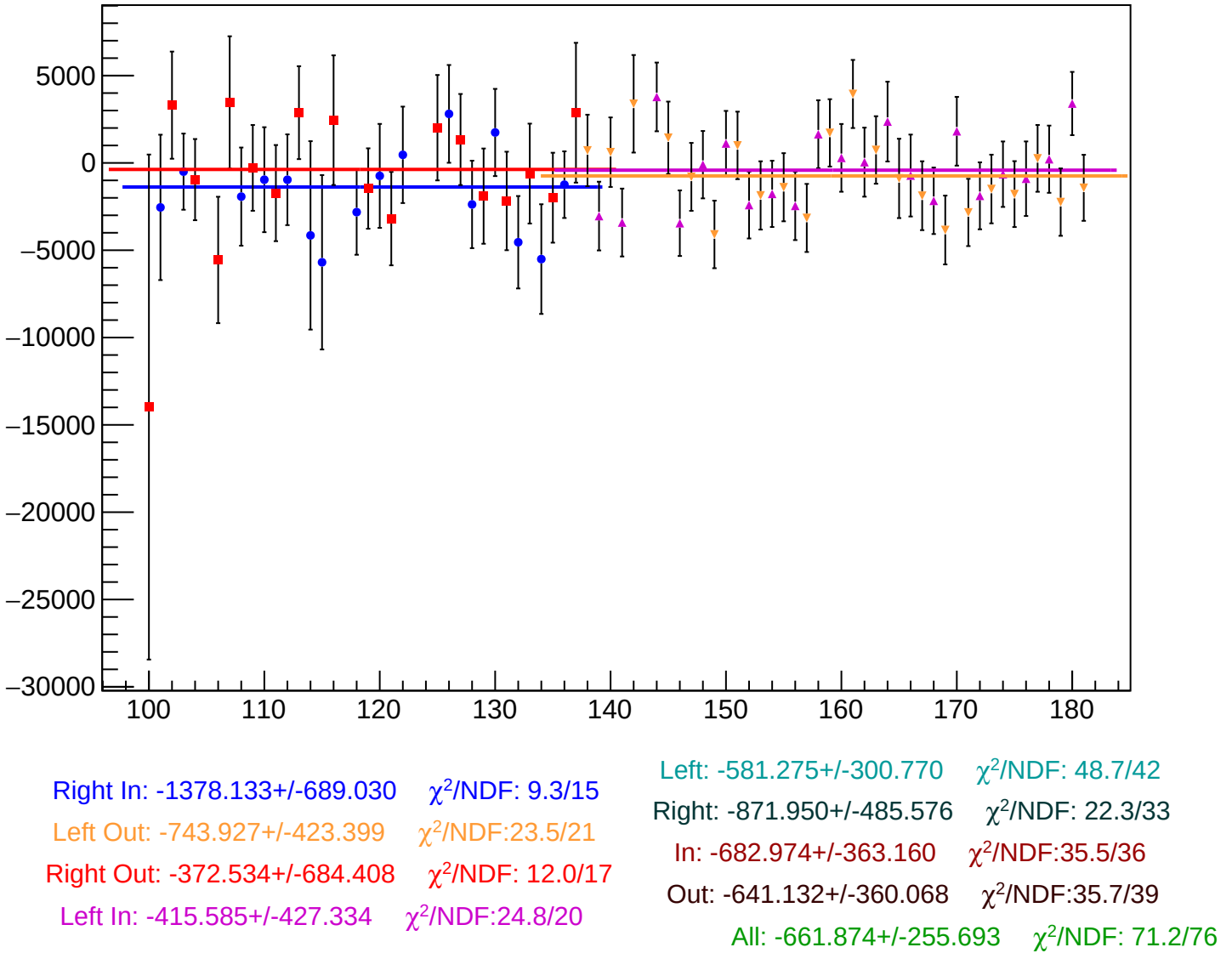
Left: 706.757+/-0.086 $\chi^2$/NDF: 1135368.2/42

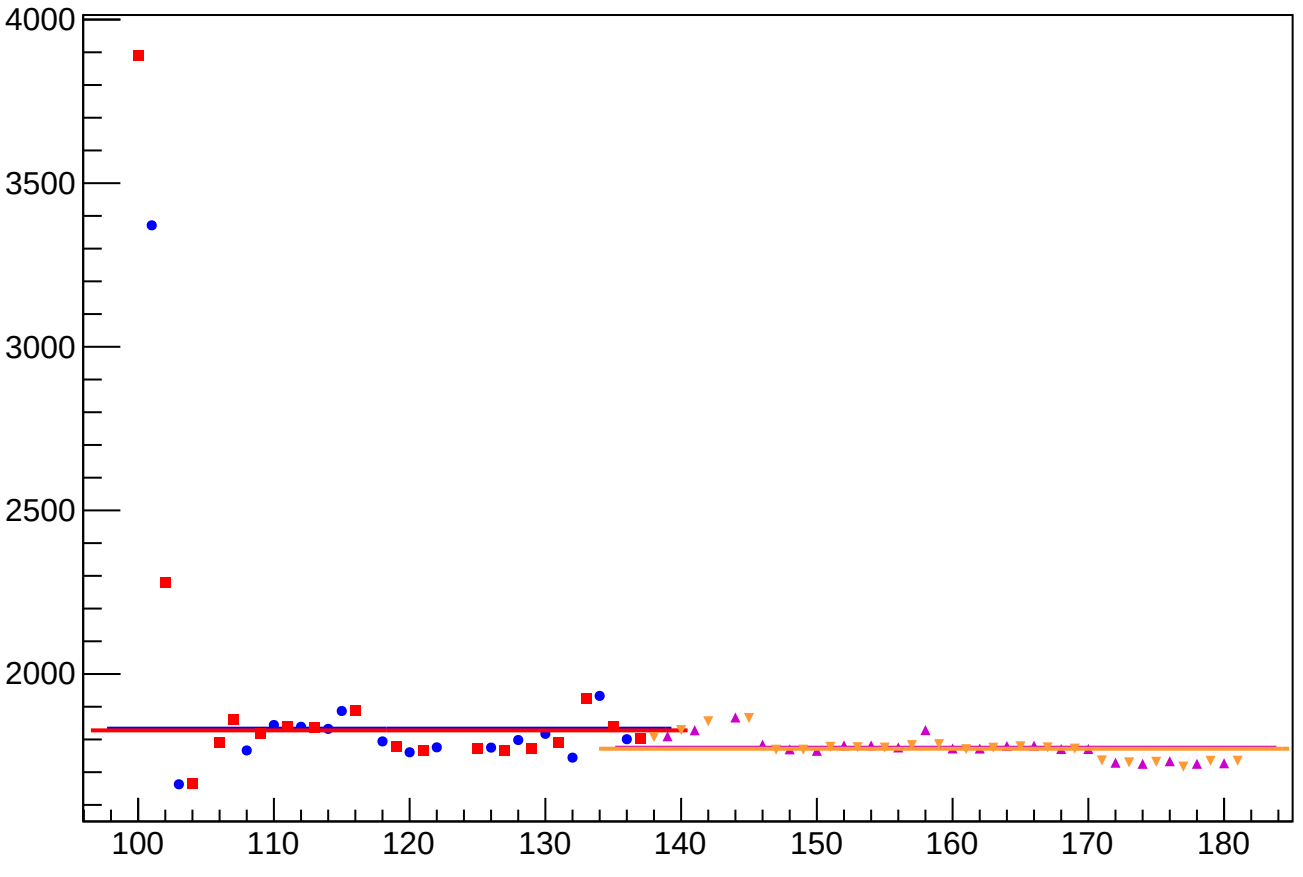
Right: 1006.404+/-0.208 $\chi^2$/NDF: 5123967.6/33

In: 762.219+/-0.114 $\chi^2$/NDF:3745657.4/36

Out: 738.666+/-0.110 $\chi^2$/NDF:4261394.2/39

All: 750.105+/-0.079 $\chi^2$/NDF: 8029126.8/76


eigen_cor_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
110
120
130
140
150
160
170
180
Right In: -1378.133+/-689.030 χ²/NDF: 9.3/15
Left Out: -743.927+/-423.399 χ²/NDF:23.5/21
Right Out: -372.534+/-684.408 χ²/NDF: 12.0/17
Left In: -415.585+/-427.334 χ²/NDF:24.8/20
Left: -581.275+/-300.770 χ²/NDF: 48.7/42
Right: -871.950+/-485.576 χ²/NDF: 22.3/33
In: -682.974+/-363.160 χ²/NDF:35.5/36
Out: -641.132+/-360.068 χ²/NDF:35.7/39
All: -661.874+/-255.693 χ²/NDF: 71.2/76




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295441.2/15

Left Out: 1771.688+/-0.299 $\chi^2$/NDF:14006.1/21

Right Out: 1827.785+/-0.484 $\chi^2$/NDF: 102270.3/17

Left In: 1774.759+/-0.302 $\chi^2$/NDF:14248.2/20

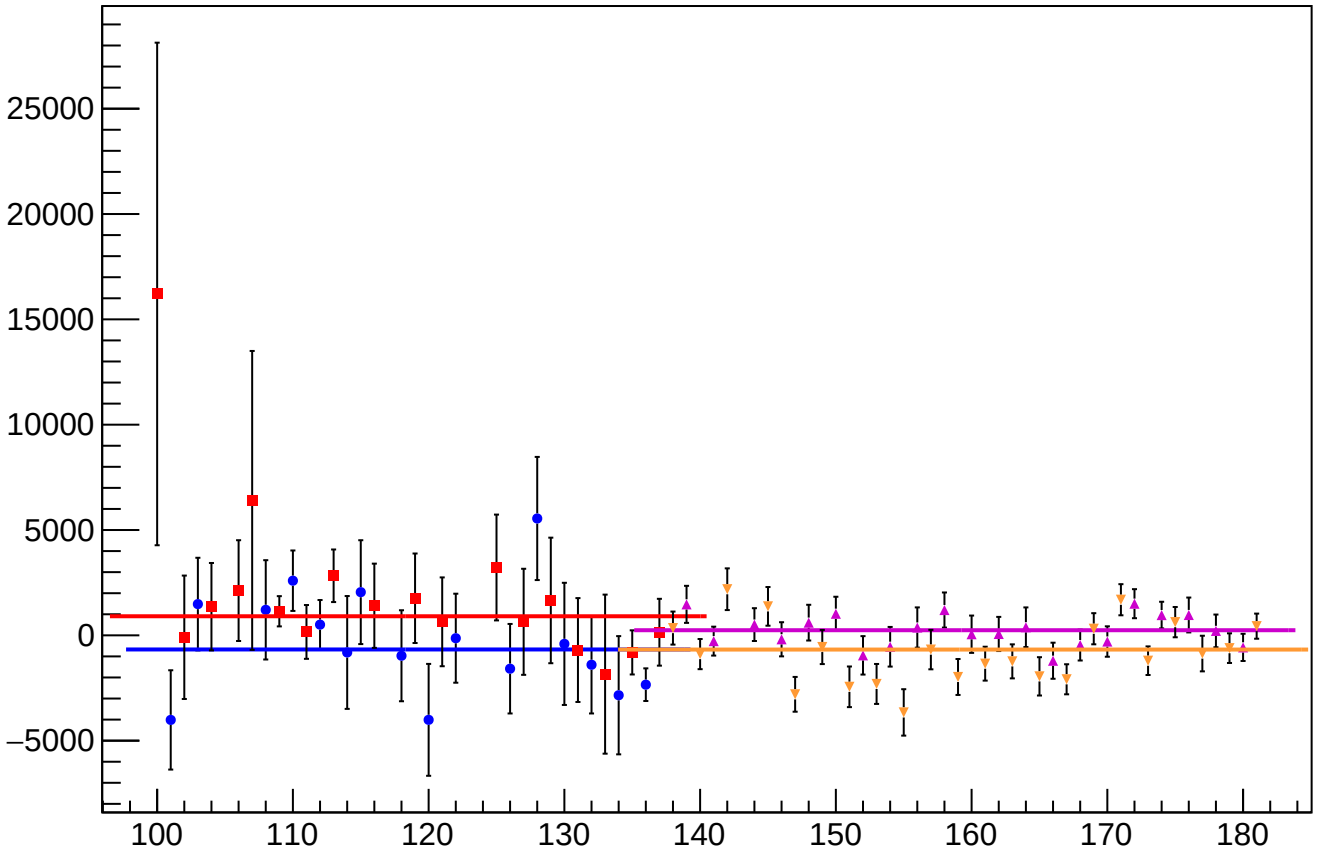
Left: 1773.209+/-0.213 $\chi^2$/NDF: 28306.4/42

Right: 1830.348+/-0.343 $\chi^2$/NDF: 397768.0/33

In: 1790.923+/-0.257 $\chi^2$/NDF:319990.5/36

Out: 1787.215+/-0.255 $\chi^2$/NDF:125993.8/39

All: 1789.053+/-0.181 $\chi^2$/NDF: 446089.4/76




Right In: -670.539+/-442.505 $\chi^2$/NDF: 22.8/15

Left Out: -674.936+/-170.128 $\chi^2$/NDF:64.3/21

Right Out: 905.874+/-394.814 $\chi^2$/NDF: 10.5/17

Left In: 243.215+/-172.578 $\chi^2$/NDF:19.2/20

Left: -222.422+/-121.156 $\chi^2$/NDF: 97.9/42

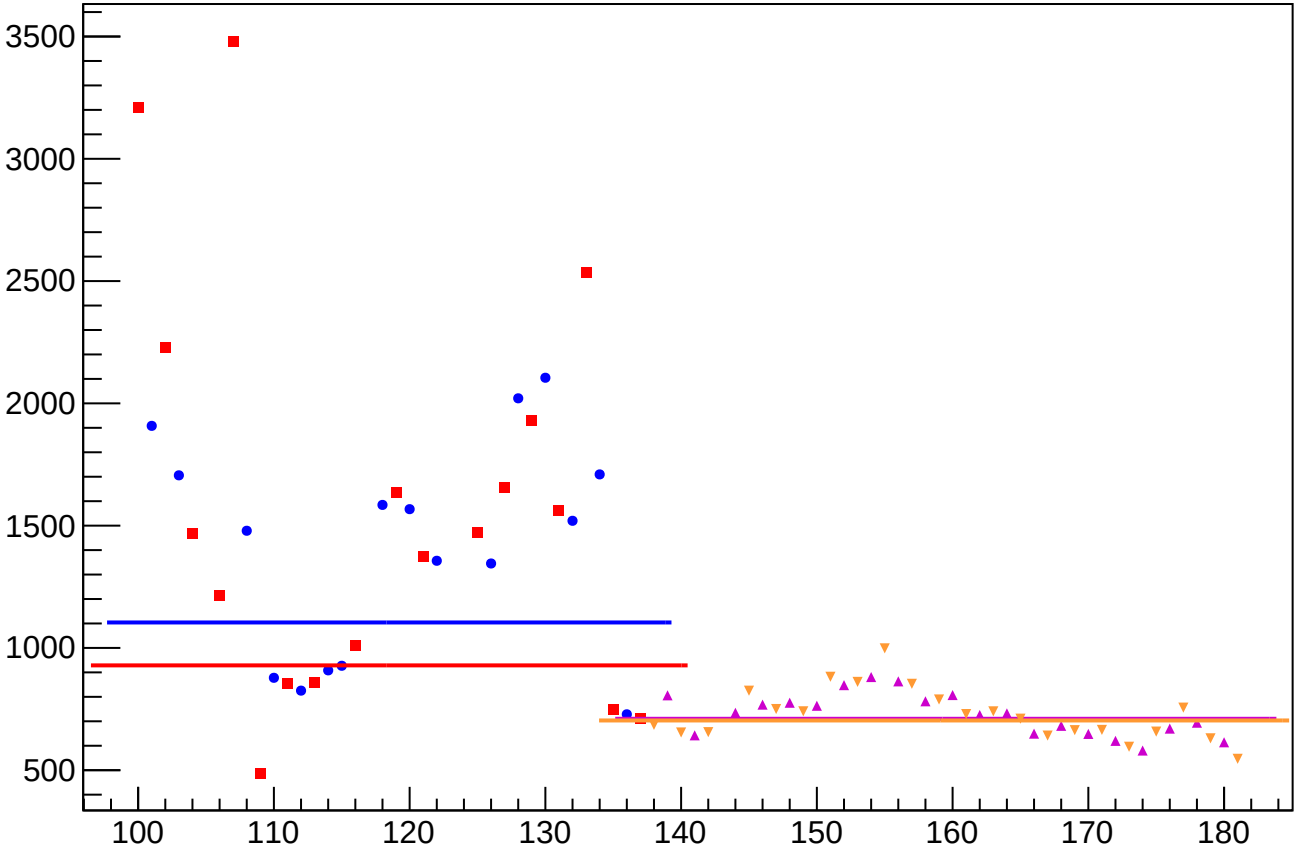
Right: 207.164+/-294.599 $\chi^2$/NDF: 40.3/33

In: 122.581+/-160.783 $\chi^2$/NDF:45.7/36

Out: -427.377+/-156.240 $\chi^2$/NDF:88.3/39

All: -160.277+/-112.050 $\chi^2$/NDF: 140.0/76

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1104.103+/-0.313 $\chi^2$/NDF: 1894482.2/15

Left Out: 703.393+/-0.120 $\chi^2$/NDF:658040.0/21

Right Out: 928.629+/-0.279 $\chi^2$/NDF: 3054381.5/17

Left In: 710.218+/-0.122 $\chi^2$/NDF:475741.7/20

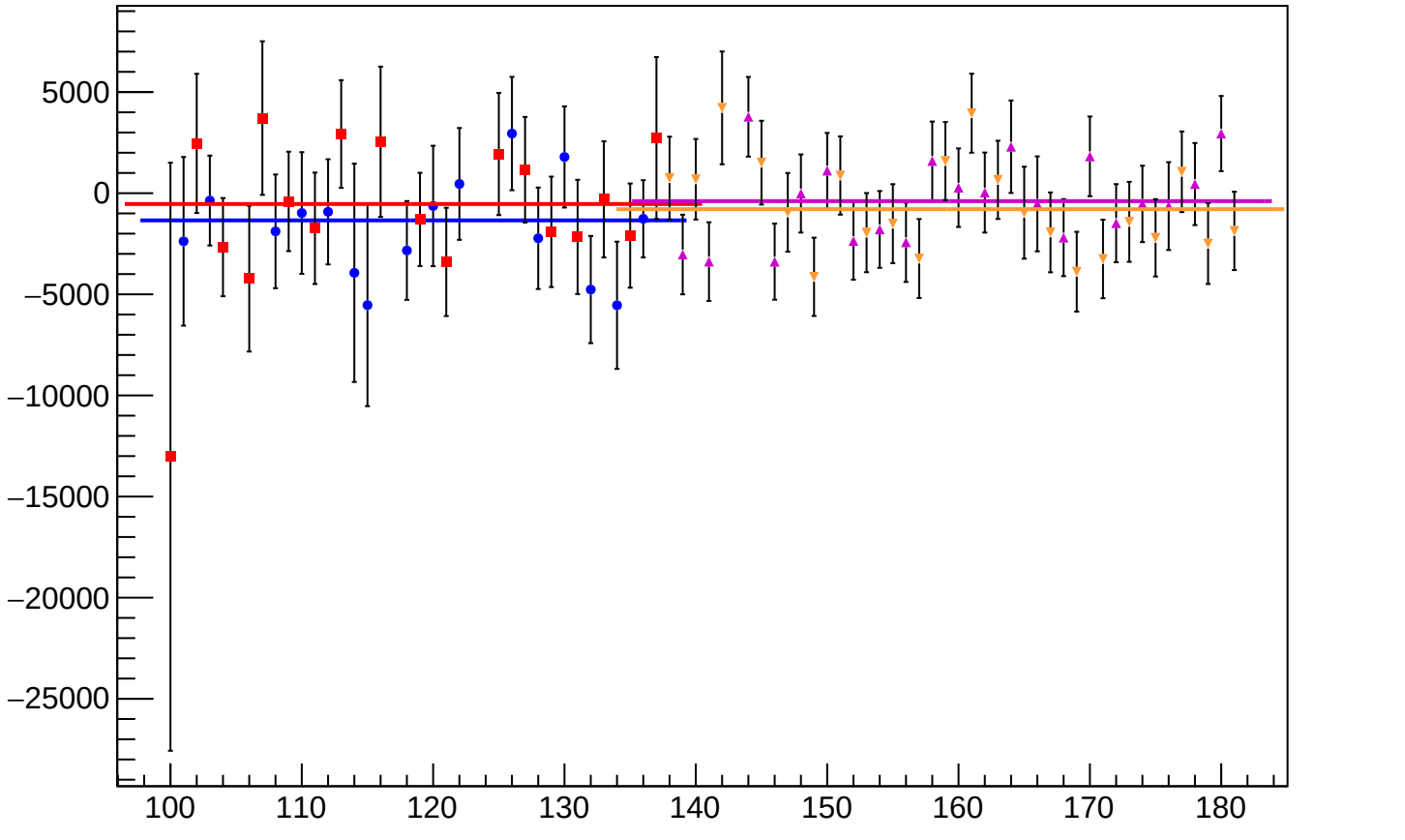
Left: 706.757+/-0.086 $\chi^2$/NDF: 1135368.2/42

Right: 1006.404+/-0.208 $\chi^2$/NDF: 5123967.6/33

In: 762.219+/-0.114 $\chi^2$/NDF:3745657.4/36

Out: 738.666+/-0.110 $\chi^2$/NDF:4261394.2/39

All: 750.105+/-0.079 $\chi^2$/NDF: 8029126.8/76




Right In: -1343.952+/-690.940 $\chi^2$/NDF: 9.6/15

Left Out: -790.577+/-426.180 $\chi^2$/NDF:26.3/21

Right Out: -534.194+/-690.970 $\chi^2$/NDF: 11.1/17

Left In: -392.186+/-429.796 $\chi^2$/NDF:23.0/20

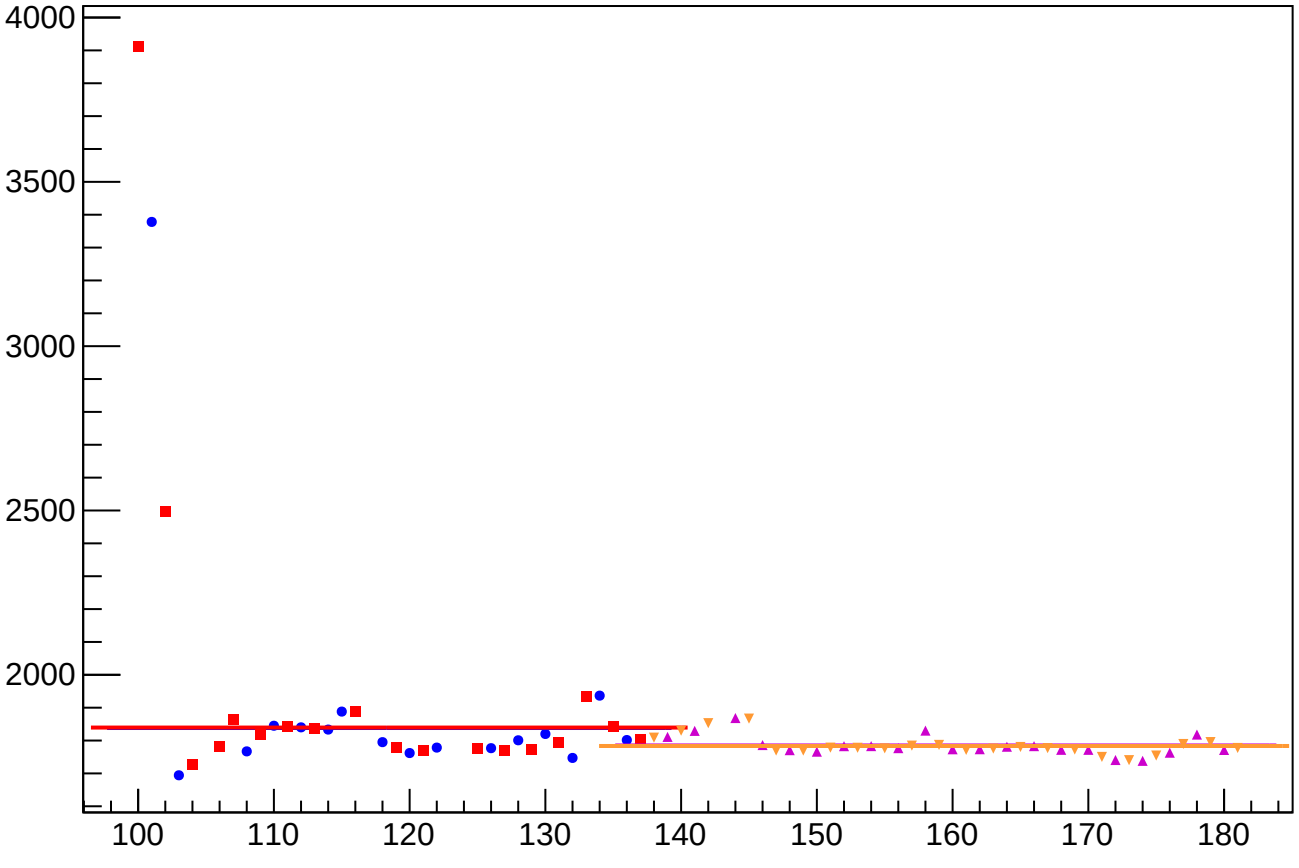
Left: -593.064+/-302.625 $\chi^2$/NDF: 49.8/42

Right: -939.091+/-488.579 $\chi^2$/NDF: 21.4/33

In: -657.717+/-364.950 $\chi^2$/NDF:34.0/36

Out: -719.922+/-362.733 $\chi^2$/NDF:37.5/39

All: -689.009+/-257.271 $\chi^2$/NDF: 71.5/76




Right In: 1838.159+/-0.489 $\chi^2$/NDF: 291984.0/15

Left Out: 1783.448+/-0.301 $\chi^2$/NDF:8440.3/21

Right Out: 1839.517+/-0.489 $\chi^2$/NDF: 128253.5/17

Left In: 1785.077+/-0.304 $\chi^2$/NDF:9873.4/20

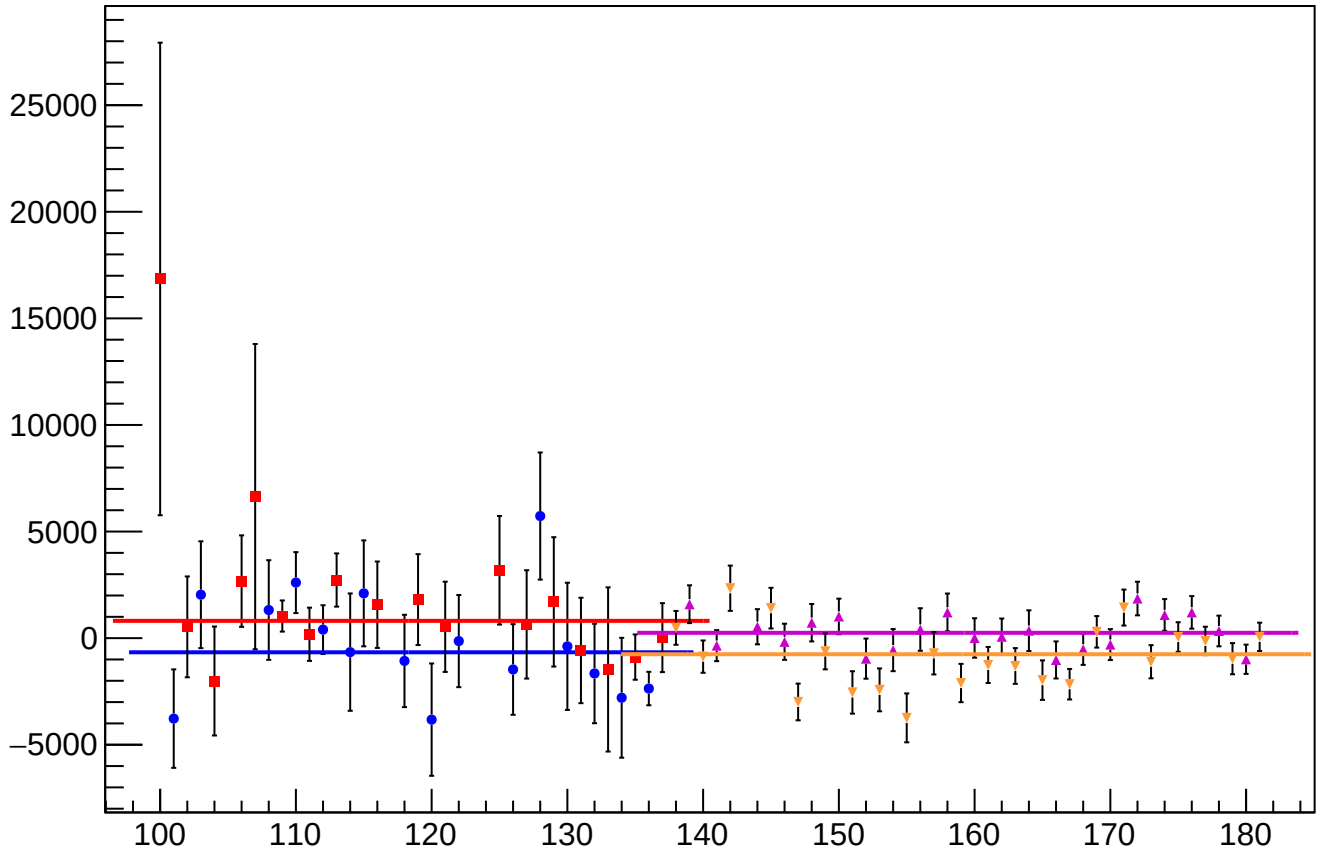
Left: 1784.255+/-0.214 $\chi^2$/NDF: 18328.2/42

Right: 1838.838+/-0.345 $\chi^2$/NDF: 420241.4/33

In: 1799.886+/-0.258 $\chi^2$/NDF:310368.8/36

Out: 1798.900+/-0.256 $\chi^2$/NDF:146234.0/39

All: 1799.390+/-0.182 $\chi^2$/NDF: 456610.1/76




Right In: -663.489+/-445.903 $\chi^2$/NDF: 22.8/15

Left Out: -754.182+/-175.732 $\chi^2$/NDF:57.1/21

Right Out: 812.187+/-397.187 $\chi^2$/NDF: 12.2/17

Left In: 249.739+/-179.326 $\chi^2$/NDF:22.2/20

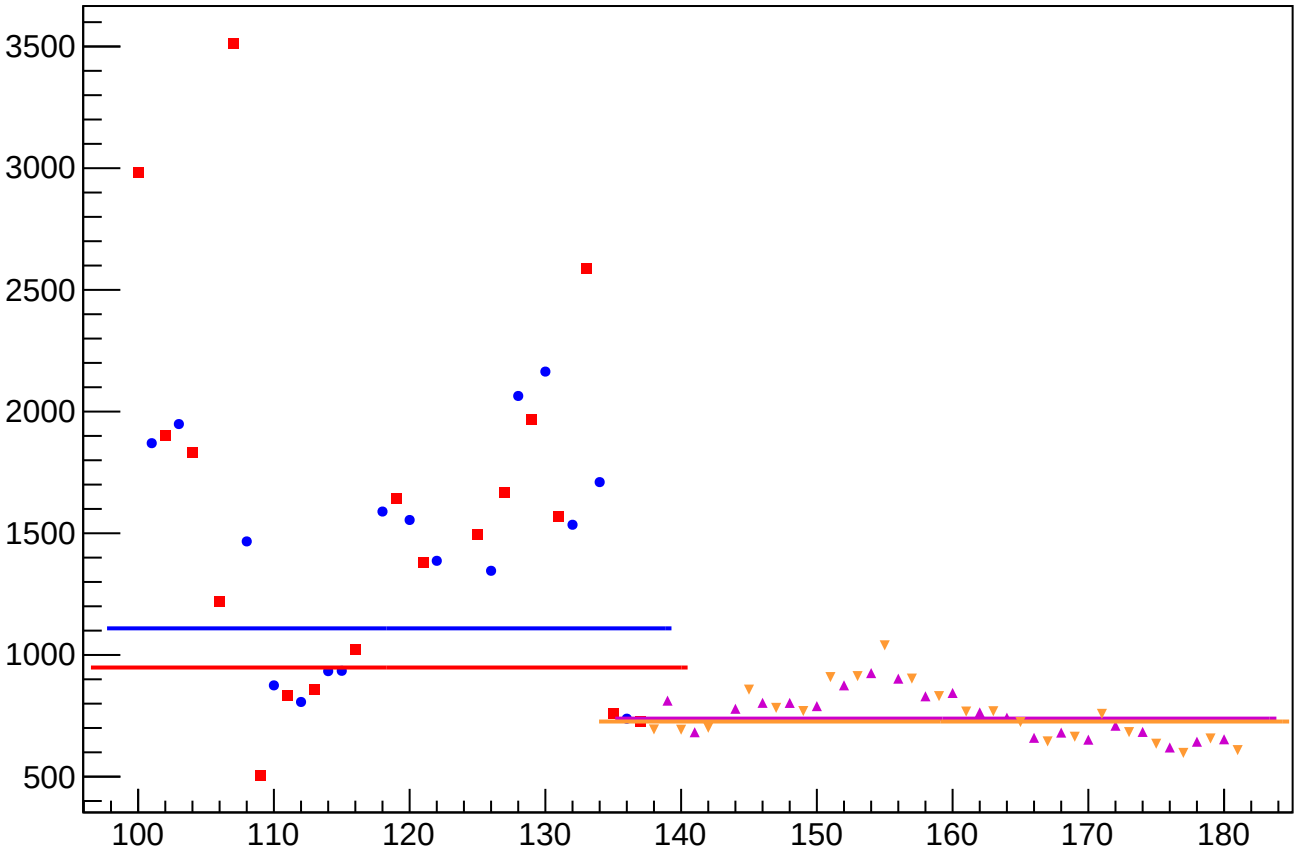
Left: -262.382+/-125.513 $\chi^2$/NDF: 95.3/42

Right: 159.335+/-296.587 $\chi^2$/NDF: 41.1/33

In: 122.601+/-166.375 $\chi^2$/NDF:48.6/36

Out: -497.754+/-160.705 $\chi^2$/NDF:82.3/39

All: -198.328+/-115.588 $\chi^2$/NDF: 138.1/76




Right In: 1109.362+/-0.315 $\chi^2$/NDF: 1973363.9/15

Left Out: 726.536+/-0.124 $\chi^2$/NDF:684731.4/21

Right Out: 948.438+/-0.281 $\chi^2$/NDF: 3053670.4/17

Left In: 738.491+/-0.127 $\chi^2$/NDF:461969.1/20

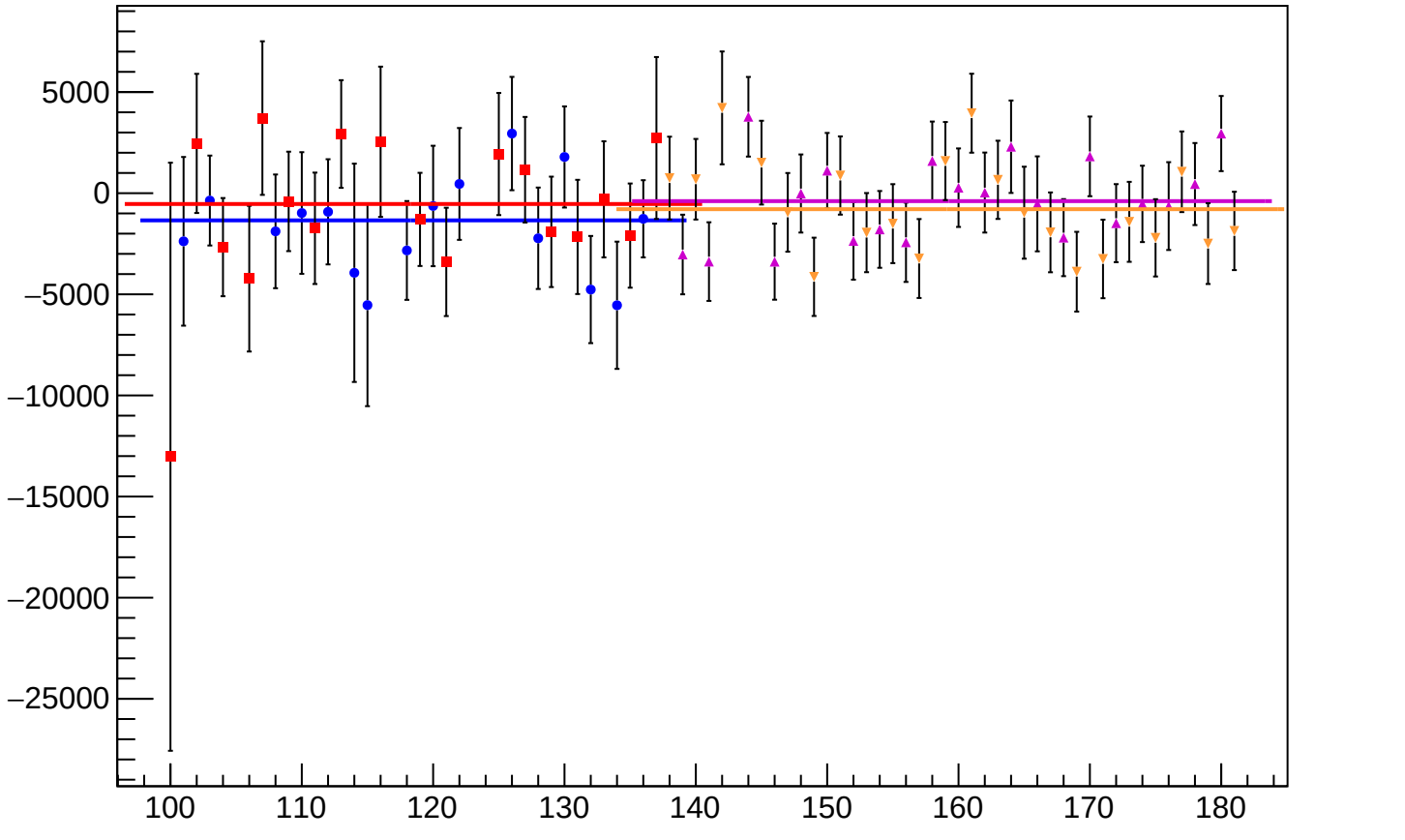
Left: 732.392+/-0.089 $\chi^2$/NDF: 1151235.0/42

Right: 1019.632+/-0.210 $\chi^2$/NDF: 5172280.0/33

In: 790.123+/-0.118 $\chi^2$/NDF:3626262.8/36

Out: 762.863+/-0.114 $\chi^2$/NDF:4260463.7/39

All: 776.021+/-0.082 $\chi^2$/NDF: 7914503.0/76




Right In: -1343.955+/-690.940 $\chi^2$/NDF: 9.6/15

Left Out: -790.576+/-426.180 $\chi^2$/NDF:26.3/21

Right Out: -534.199+/-690.970 $\chi^2$/NDF: 11.1/17

Left In: -392.185+/-429.796 $\chi^2$/NDF:23.0/20

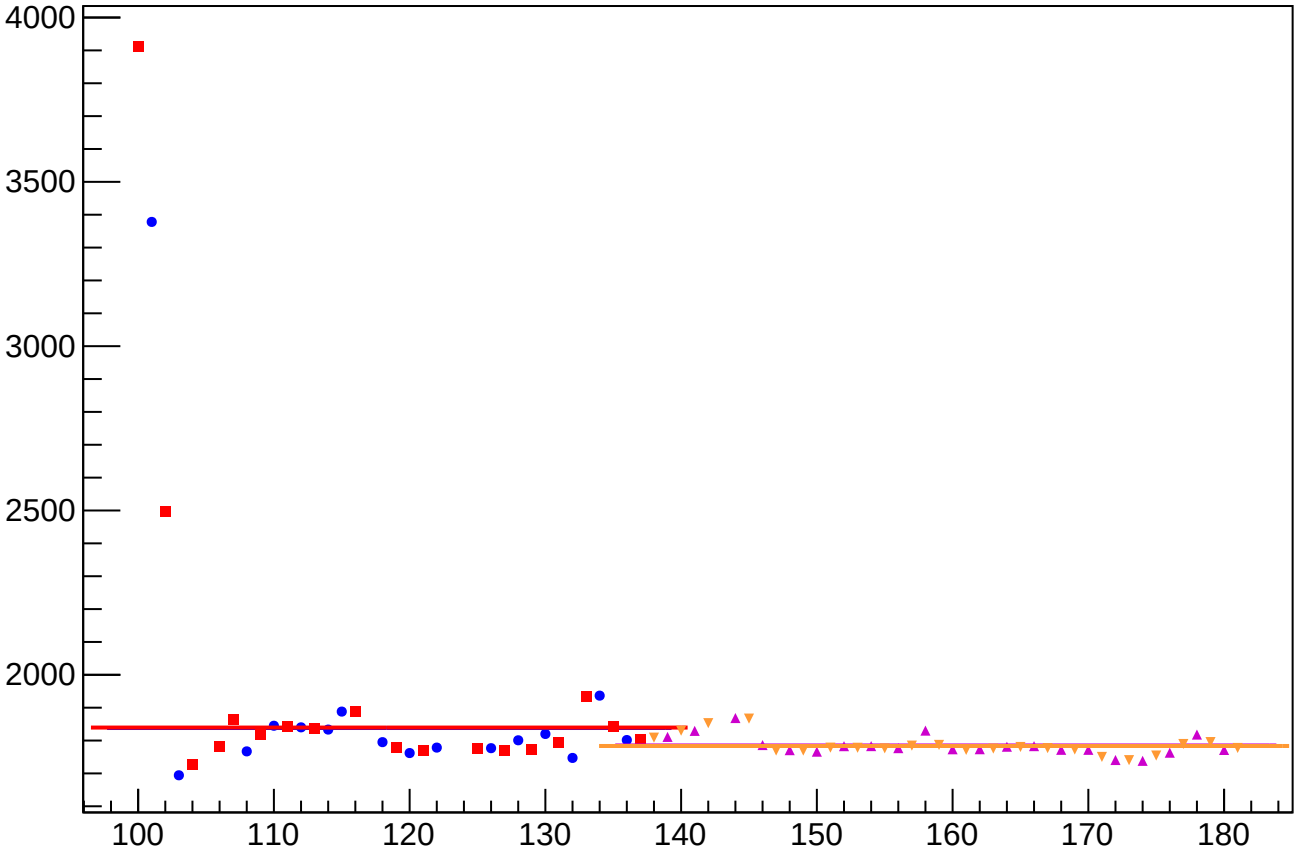
Left: -593.063+/-302.625 $\chi^2$/NDF: 49.8/42

Right: -939.094+/-488.579 $\chi^2$/NDF: 21.4/33

In: -657.718+/-364.950 $\chi^2$/NDF:34.0/36

Out: -719.922+/-362.733 $\chi^2$/NDF:37.5/39

All: -689.009+/-257.271 $\chi^2$/NDF: 71.5/76




Right In: 1838.159+/-0.489 $\chi^2$/NDF: 291984.0/15

Left Out: 1783.448+/-0.301 $\chi^2$/NDF:8440.4/21

Right Out: 1839.517+/-0.489 $\chi^2$/NDF: 128253.6/17

Left In: 1785.076+/-0.304 $\chi^2$/NDF:9873.4/20

Left: 1784.255+/-0.214 $\chi^2$/NDF: 18328.3/42

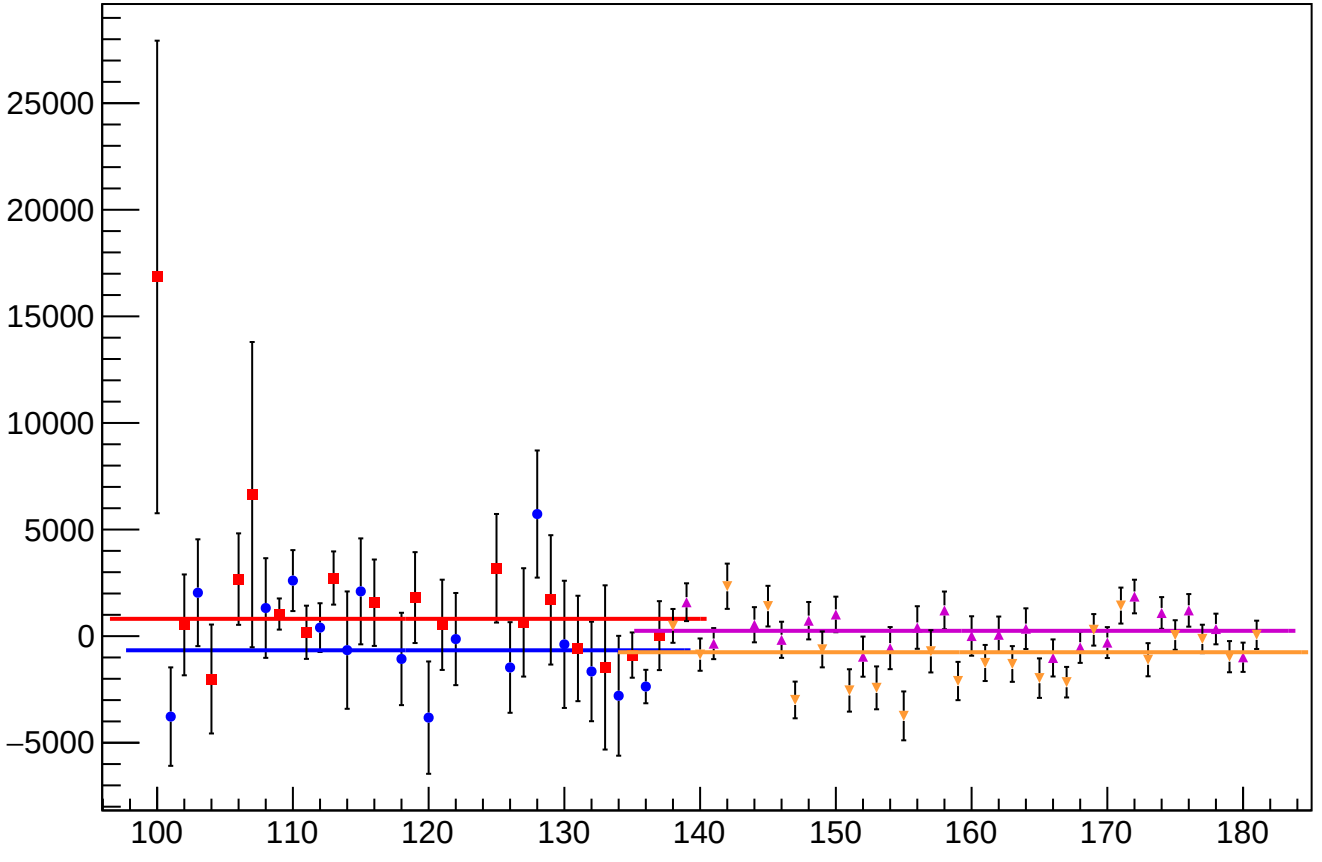
Right: 1838.838+/-0.345 $\chi^2$/NDF: 420241.4/33

In: 1799.886+/-0.258 $\chi^2$/NDF:310368.8/36

Out: 1798.900+/-0.256 $\chi^2$/NDF:146234.1/39

All: 1799.390+/-0.182 $\chi^2$/NDF: 456610.2/76

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -663.476+/-445.904 $\chi^2$/NDF: 22.8/15

Left Out: -754.183+/-175.732 $\chi^2$/NDF:57.1/21

Right Out: 812.194+/-397.187 $\chi^2$/NDF: 12.2/17

Left In: 249.737+/-179.326 $\chi^2$/NDF:22.2/20

Left: -262.383+/-125.513 $\chi^2$/NDF: 95.3/42

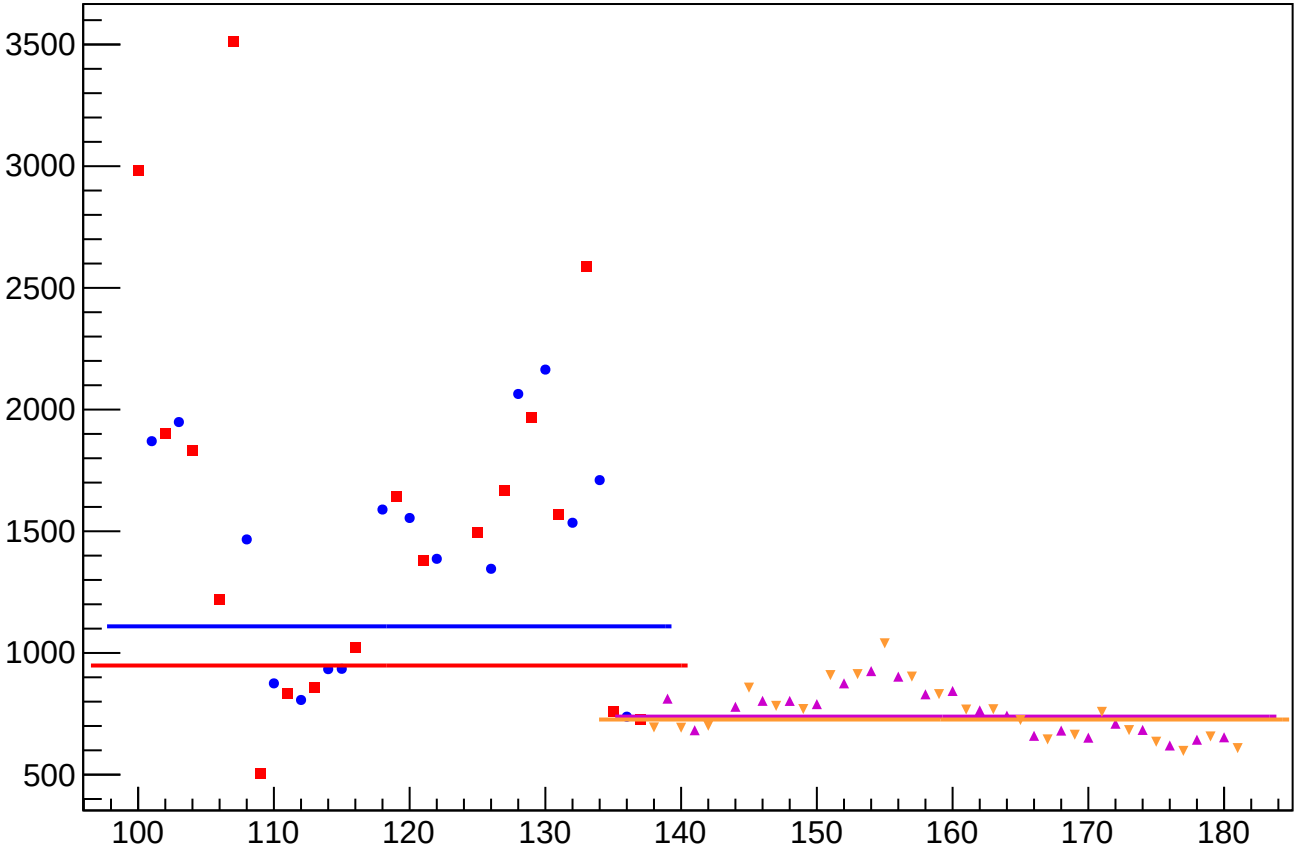
Right: 159.344+/-296.588 $\chi^2$/NDF: 41.1/33

In: 122.601+/-166.375 $\chi^2$/NDF:48.6/36

Out: -497.755+/-160.705 $\chi^2$/NDF:82.3/39

All: -198.328+/-115.588 $\chi^2$/NDF: 138.1/76

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1109.365+/-0.315 $\chi^2$/NDF: 1973324.5/15

Left Out: 726.536+/-0.124 $\chi^2$/NDF:684727.5/21

Right Out: 948.441+/-0.281 $\chi^2$/NDF: 3053644.5/17

Left In: 738.491+/-0.127 $\chi^2$/NDF:461981.0/20

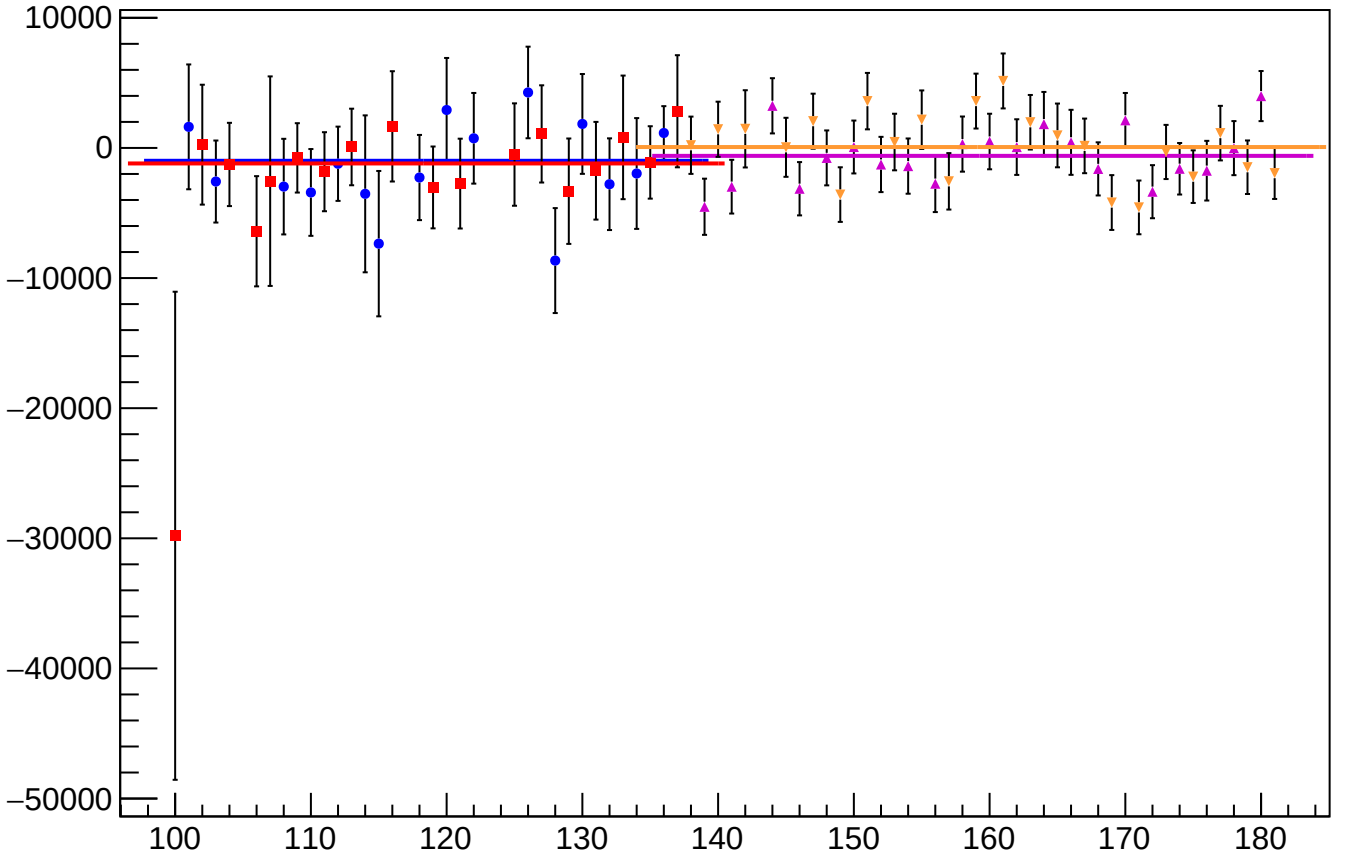
Left: 732.392+/-0.089 $\chi^2$/NDF: 1151242.4/42

Right: 1019.635+/-0.210 $\chi^2$/NDF: 5172215.4/33

In: 790.123+/-0.118 $\chi^2$/NDF:3626255.7/36

Out: 762.864+/-0.114 $\chi^2$/NDF:4260442.8/39

All: 776.021+/-0.082 $\chi^2$/NDF: 7914473.4/76




Right In: -987.532+/-873.840 $\chi^2$/NDF: 12.0/15

Left Out: 68.830+/-459.003 $\chi^2$/NDF:31.4/21

Right Out: -1192.173+/-870.432 $\chi^2$/NDF: 7.0/17

Left In: -608.475+/-462.804 $\chi^2$/NDF:22.5/20

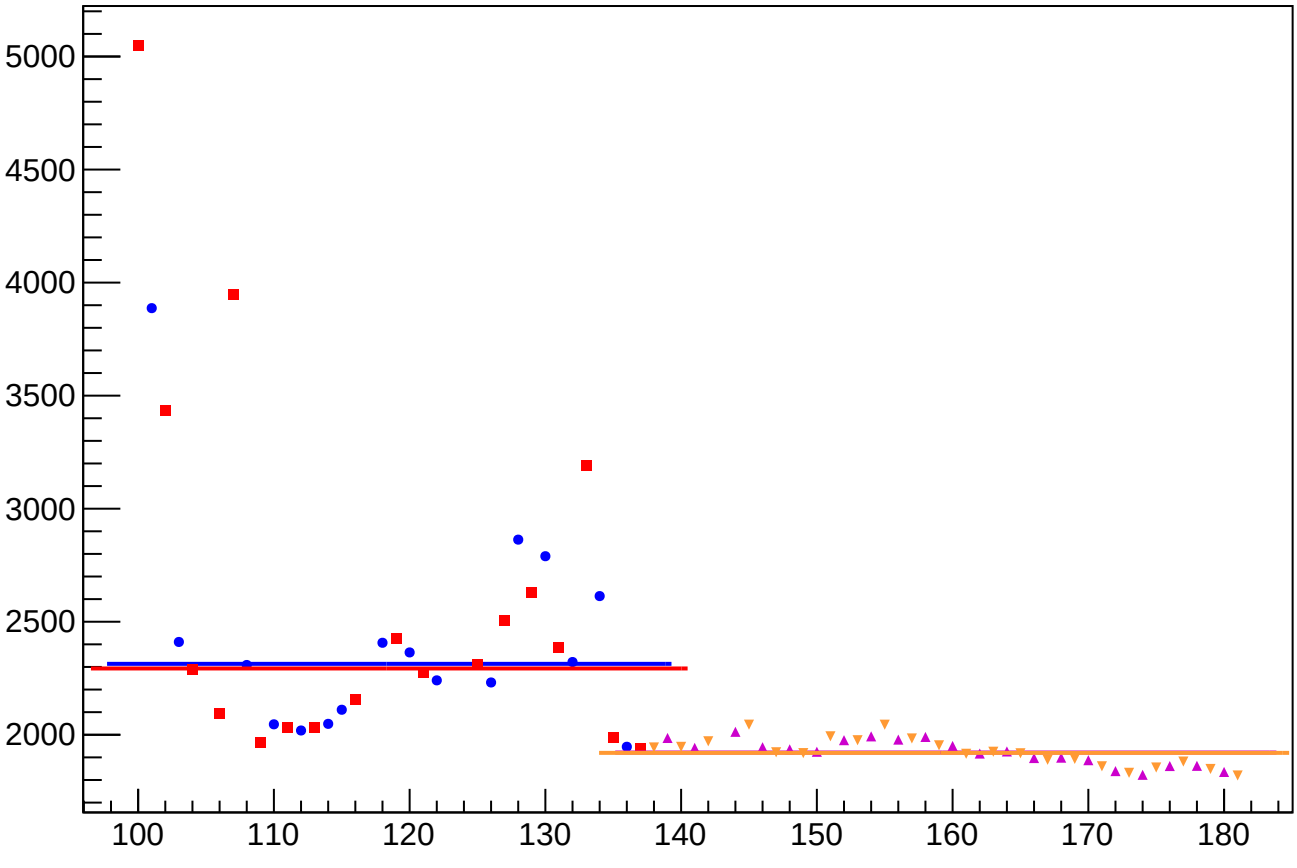
Left: -267.029+/-325.899 $\chi^2$/NDF: 55.0/42

Right: -1090.252+/-616.690 $\chi^2$/NDF: 19.0/33

In: -691.509+/-408.985 $\chi^2$/NDF:34.6/36

Out: -205.530+/-406.010 $\chi^2$/NDF:40.0/39

All: -446.745+/-288.139 $\chi^2$/NDF: 75.3/76




Right In: 2313.740+/-0.618 $\chi^2$/NDF: 402756.6/15

Left Out: 1919.998+/-0.325 $\chi^2$/NDF:35395.1/21

Right Out: 2293.273+/-0.615 $\chi^2$/NDF: 453202.3/17

Left In: 1921.545+/-0.327 $\chi^2$/NDF:29637.1/20

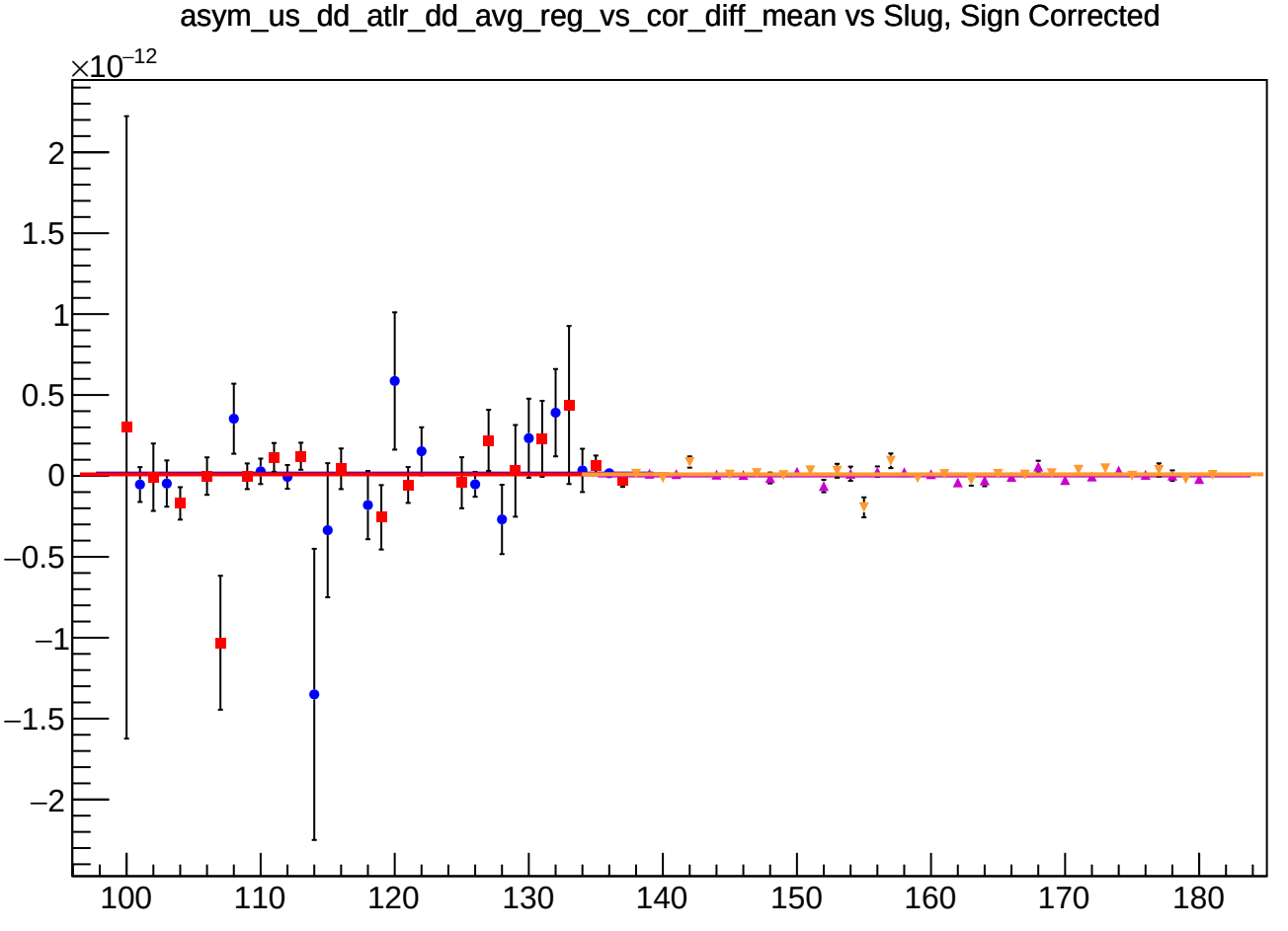
Left: 1920.765+/-0.230 $\chi^2$/NDF: 65043.5/42

Right: 2303.467+/-0.436 $\chi^2$/NDF: 856509.6/33

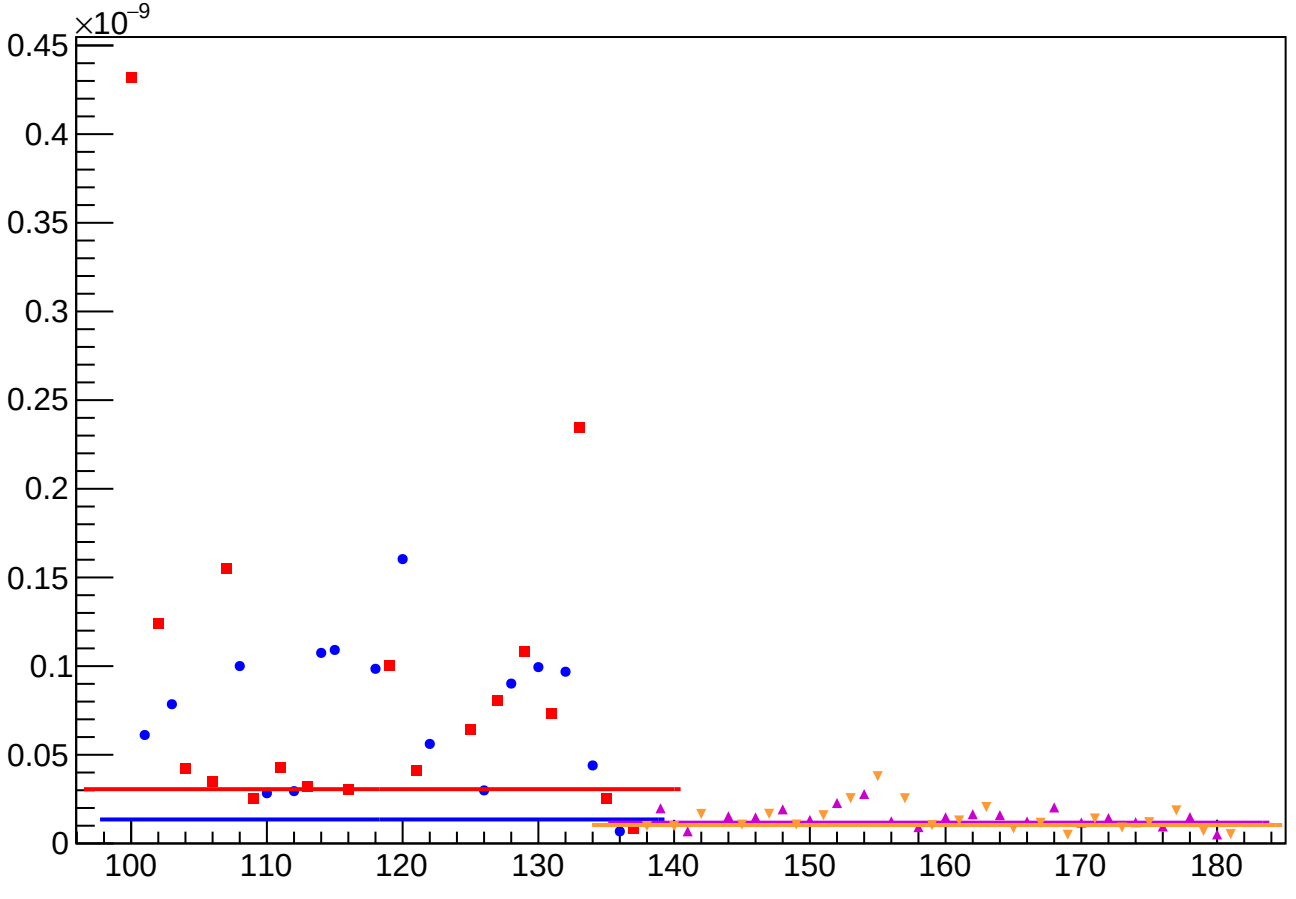
In: 2007.457+/-0.289 $\chi^2$/NDF:747019.7/36

Out: 2001.213+/-0.287 $\chi^2$/NDF:776383.1/39

All: 2004.313+/-0.204 $\chi^2$/NDF: 1523637.5/76


asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 15.0/15
Left Out: 0.000+/-0.000 χ²/NDF:32.0/21
Right Out: 0.000+/-0.000 χ²/NDF: 19.5/17
Left In: 0.000+/-0.000 χ²/NDF:17.9/20
Left: 0.000+/-0.000 χ²/NDF: 51.0/42
Right: 0.000+/-0.000 χ²/NDF: 34.5/33
In: 0.000+/-0.000 χ²/NDF:33.5/36
Out: 0.000+/-0.000 χ²/NDF:51.5/39
All: 0.000+/-0.000 χ²/NDF: 85.8/76

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3416094.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2072362.5/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2349183.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1805933.9/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3947718.3/42

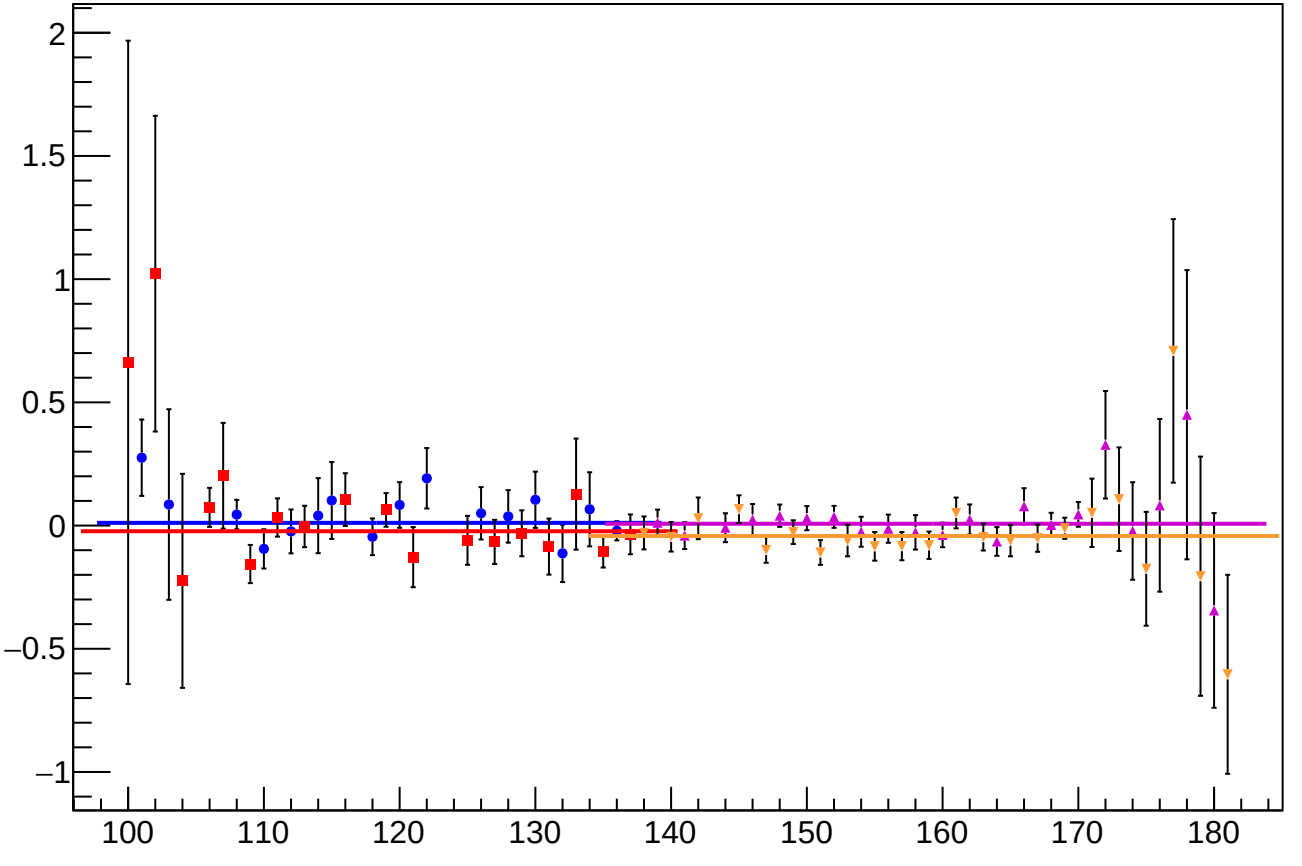
Right: 0.000+/-0.000 $\chi^2$/NDF: 6517274.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:5251139.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5775085.6/39

All: 0.000+/-0.000 $\chi^2$/NDF: 11052536.8/76

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.011+/-0.022 $\chi^2$/NDF: 11.7/15

Left Out: -0.042+/-0.014 $\chi^2$/NDF:17.4/21

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 16.0/17

Left In: 0.007+/-0.014 $\chi^2$/NDF:10.3/20

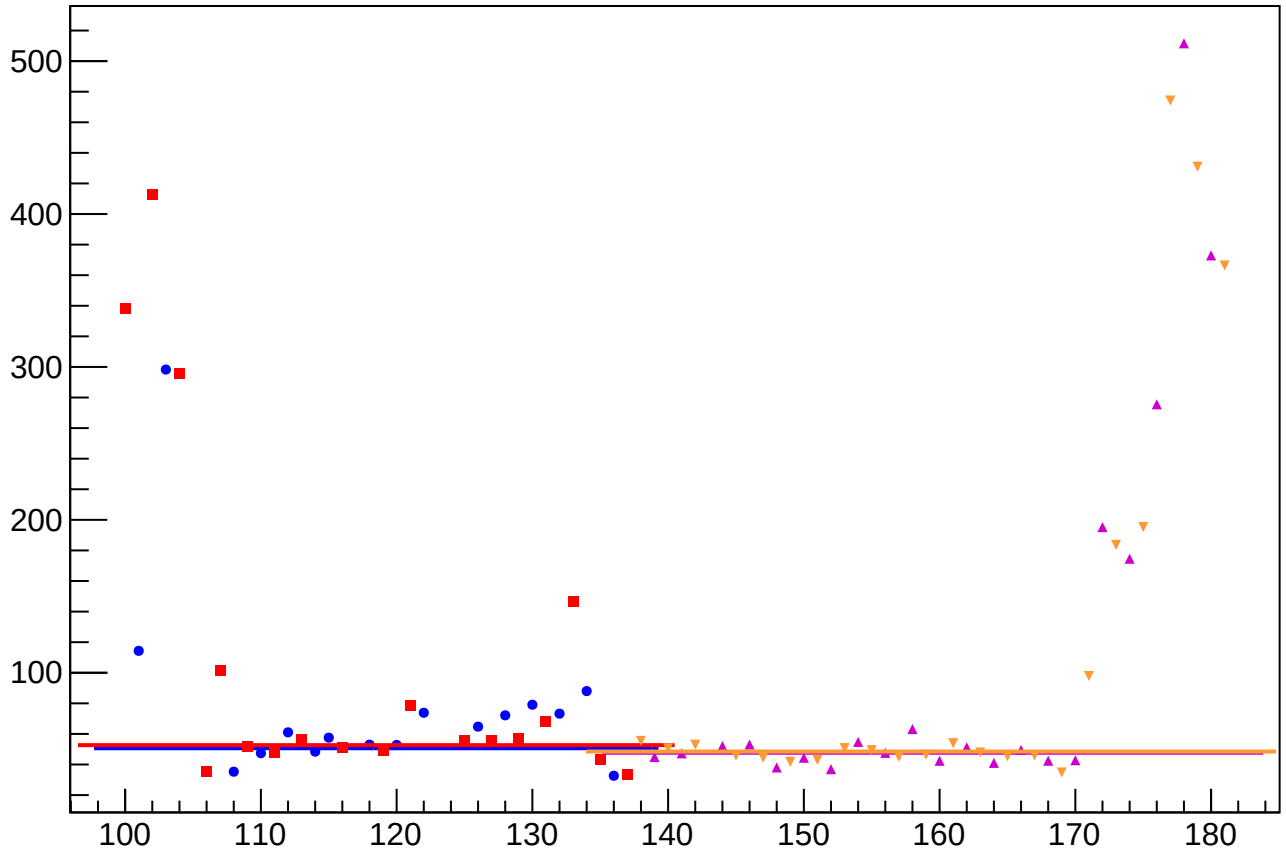
Left: -0.017+/-0.010 $\chi^2$/NDF: 34.2/42

Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.008+/-0.012 $\chi^2$/NDF:22.0/36

Out: -0.037+/-0.012 $\chi^2$/NDF:33.9/39

All: -0.014+/-0.008 $\chi^2$/NDF: 63.4/76




Right In: 50.645+/-0.015 $\chi^2$/NDF: 2266445.6/15

Left Out: 48.489+/-0.010 $\chi^2$/NDF:5986207.4/21

Right Out: 52.666+/-0.016 $\chi^2$/NDF: 2211938.1/17

Left In: 47.684+/-0.010 $\chi^2$/NDF:5658193.4/20

Left: 48.075+/-0.007 $\chi^2$/NDF: 11647832.5/42

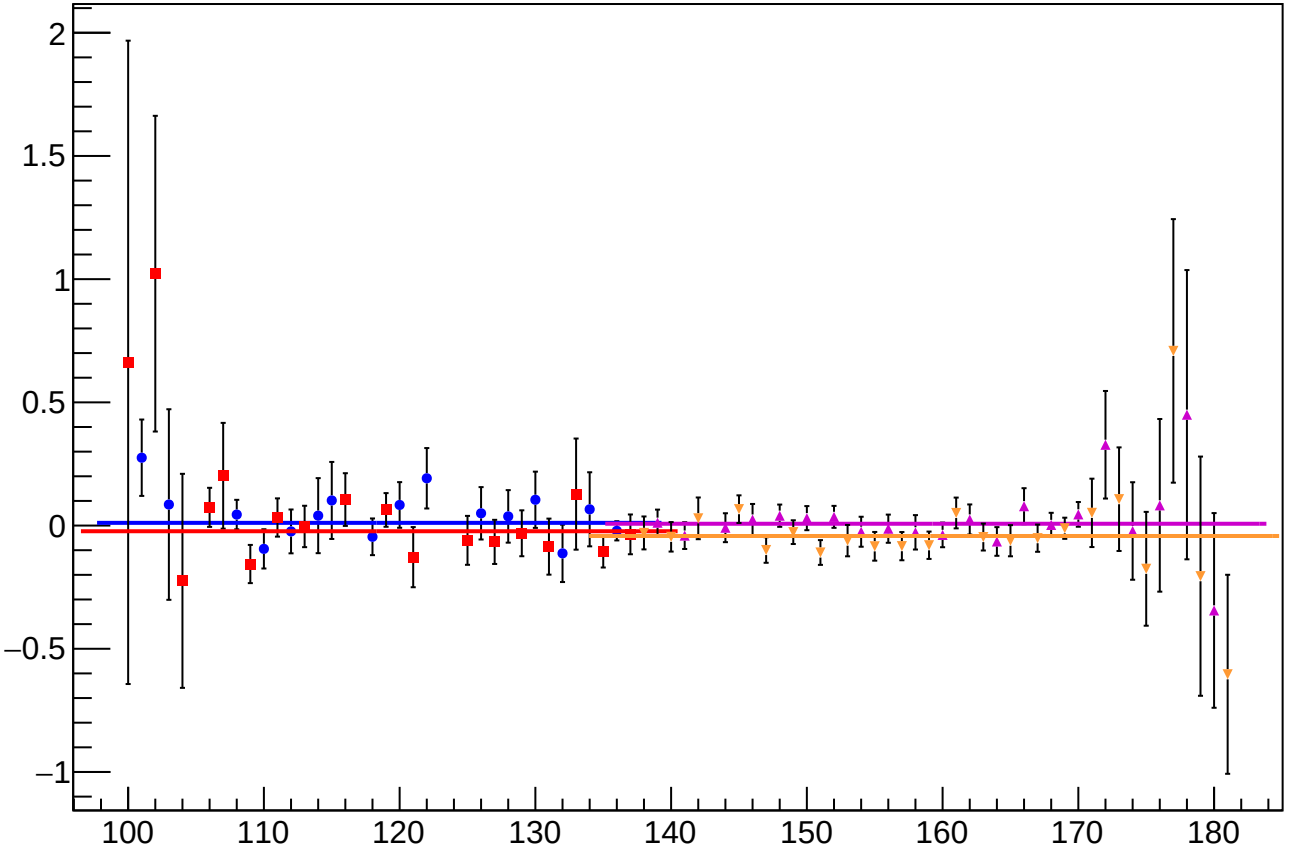
Right: 51.600+/-0.011 $\chi^2$/NDF: 4486449.2/33

In: 48.504+/-0.008 $\chi^2$/NDF:7951144.6/36

Out: 49.602+/-0.008 $\chi^2$/NDF:8246068.9/39

All: 49.034+/-0.006 $\chi^2$/NDF: 16205977.9/76

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.011+/-0.022 $\chi^2$/NDF: 11.7/15

Left Out: -0.042+/-0.014 $\chi^2$/NDF:17.4/21

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 16.0/17

Left In: 0.007+/-0.014 $\chi^2$/NDF:10.3/20

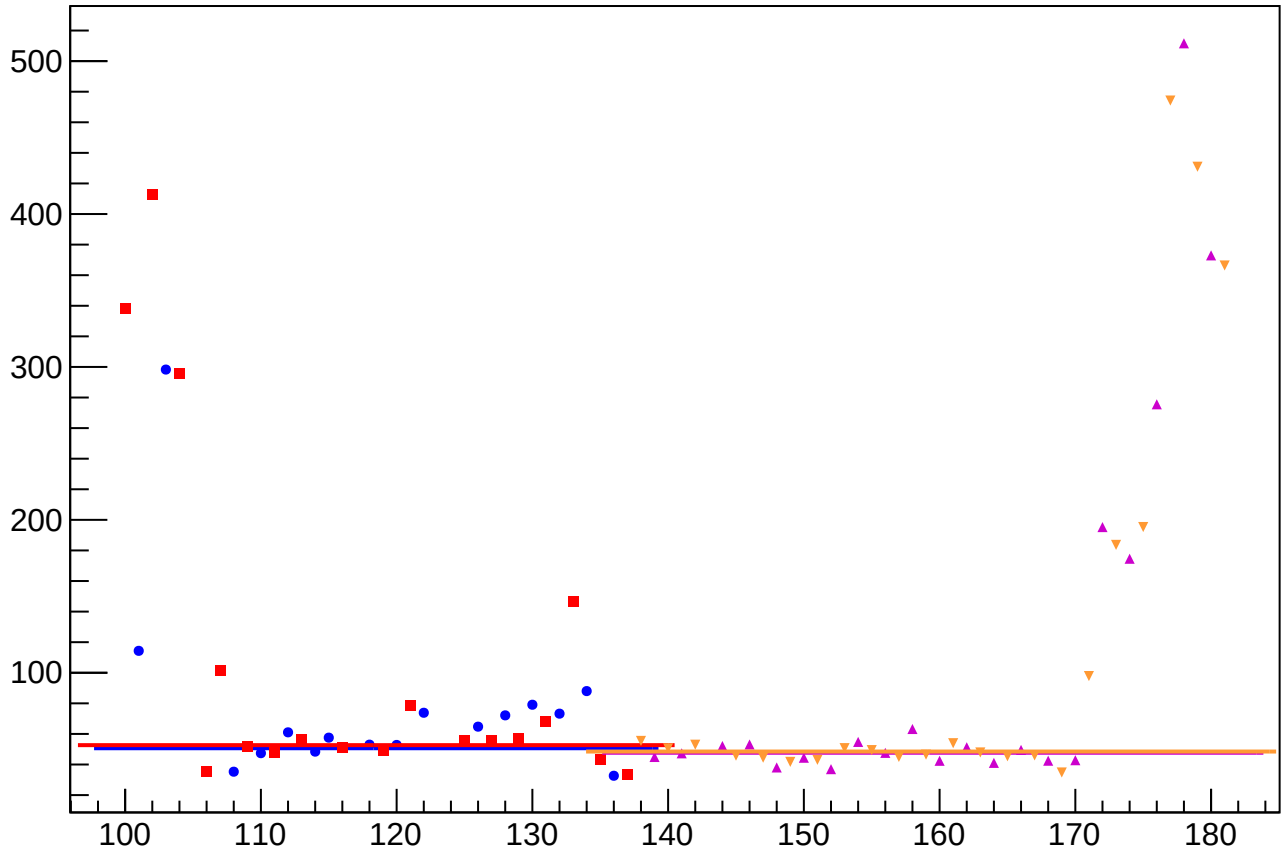
Left: -0.017+/-0.010 $\chi^2$/NDF: 34.2/42

Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.008+/-0.012 $\chi^2$/NDF:22.0/36

Out: -0.037+/-0.012 $\chi^2$/NDF:33.9/39

All: -0.014+/-0.008 $\chi^2$/NDF: 63.4/76




Right In: 50.645+/-0.015 $\chi^2$/NDF: 2266445.6/15

Left Out: 48.489+/-0.010 $\chi^2$/NDF:5986207.4/21

Right Out: 52.666+/-0.016 $\chi^2$/NDF: 2211938.1/17

Left In: 47.684+/-0.010 $\chi^2$/NDF:5658193.4/20

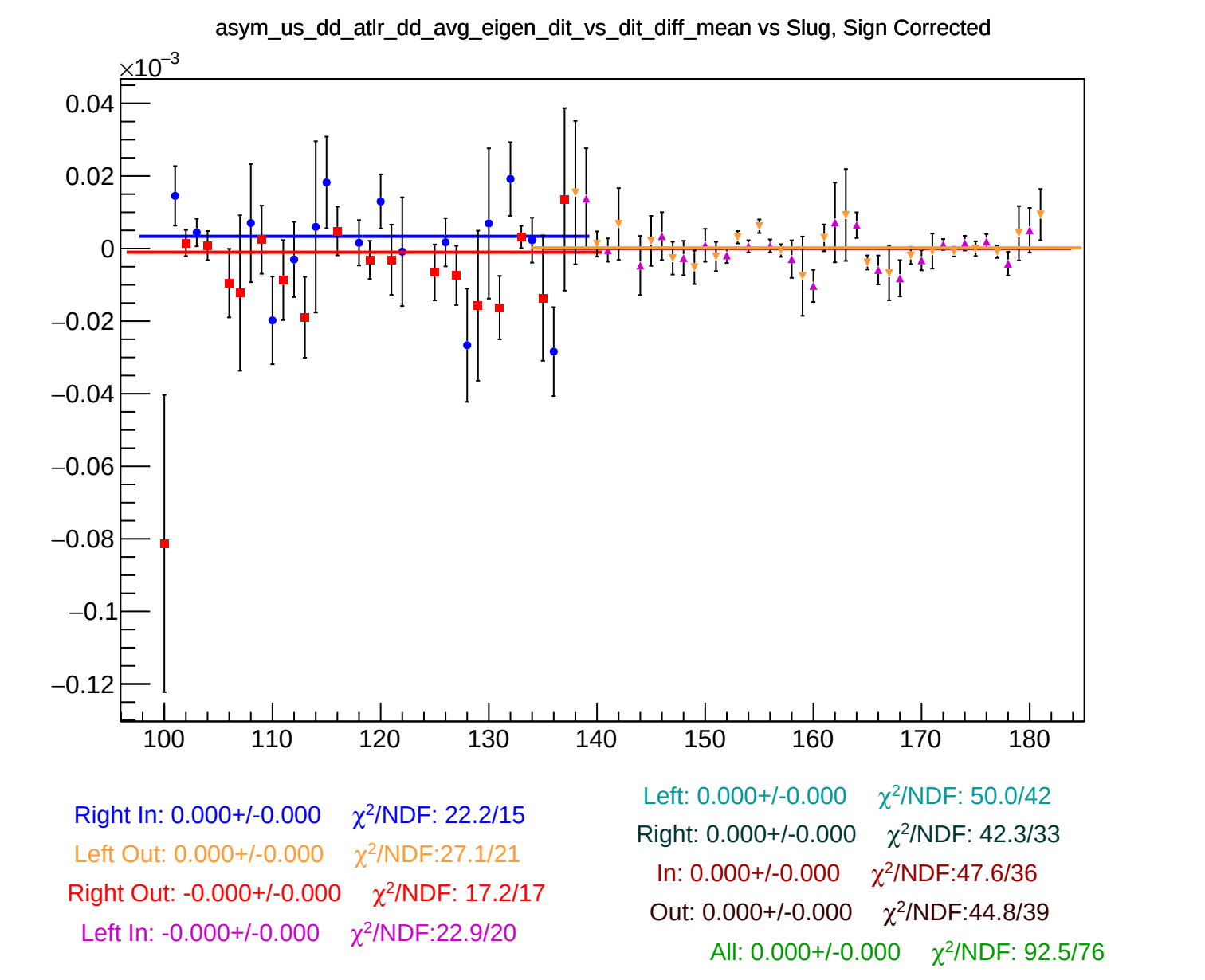
Left: 48.075+/-0.007 $\chi^2$/NDF: 11647832.5/42

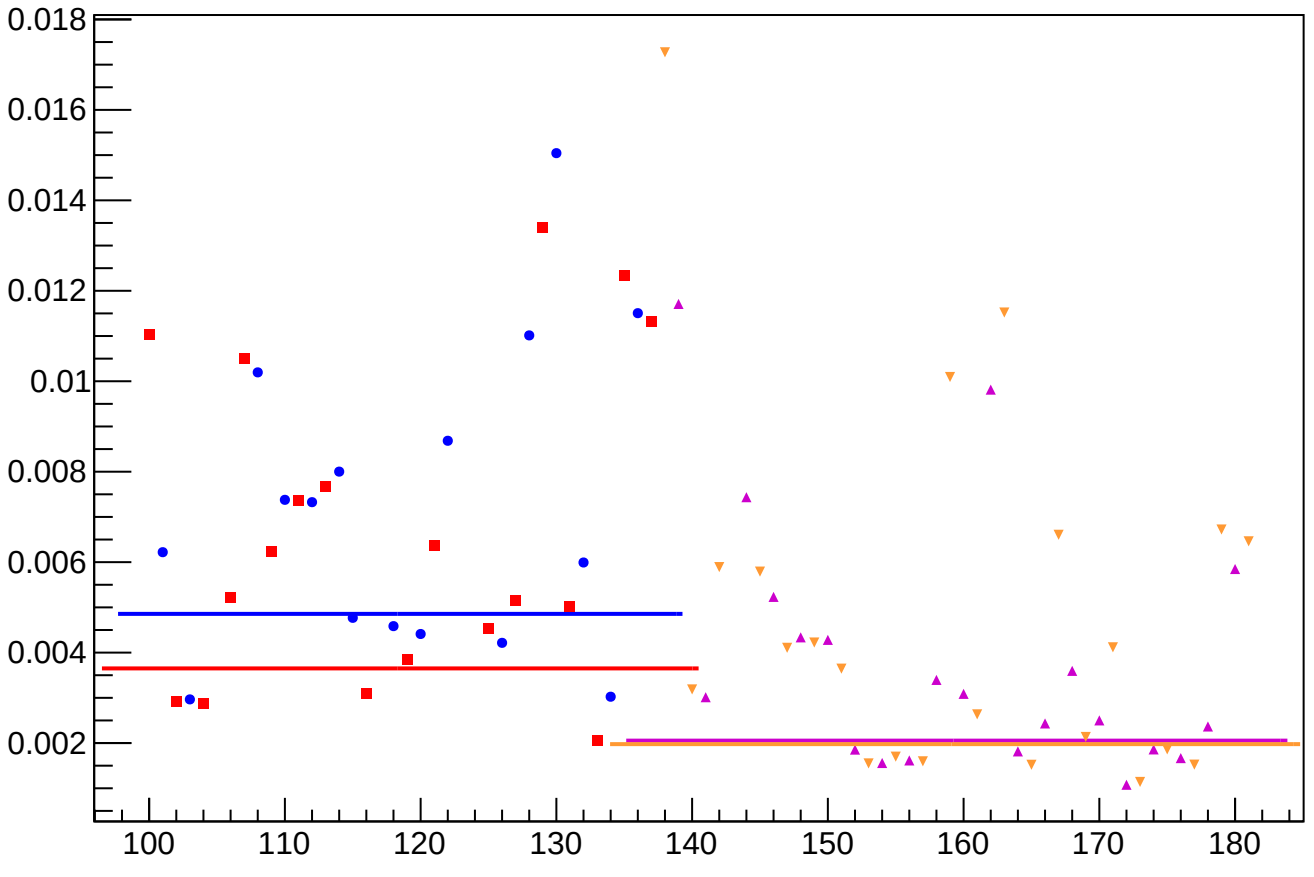
Right: 51.600+/-0.011 $\chi^2$/NDF: 4486449.2/33

In: 48.504+/-0.008 $\chi^2$/NDF:7951144.6/36

Out: 49.602+/-0.008 $\chi^2$/NDF:8246068.9/39

All: 49.034+/-0.006 $\chi^2$/NDF: 16205977.9/76


asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 22.2/15
Left Out: 0.000+/-0.000 χ²/NDF:27.1/21
Right Out: -0.000+/-0.000 χ²/NDF: 17.2/17
Left In: -0.000+/-0.000 χ²/NDF:22.9/20
Left: 0.000+/-0.000 χ²/NDF: 50.0/42
Right: 0.000+/-0.000 χ²/NDF: 42.3/33
In: 0.000+/-0.000 χ²/NDF:47.6/36
Out: 0.000+/-0.000 χ²/NDF:44.8/39
All: 0.000+/-0.000 χ²/NDF: 92.5/76




Right In: 0.005+/-0.000 $\chi^2$/NDF: 2745089.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:10030575.8/21

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 3108848.8/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:6967838.2/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 17015007.0/42

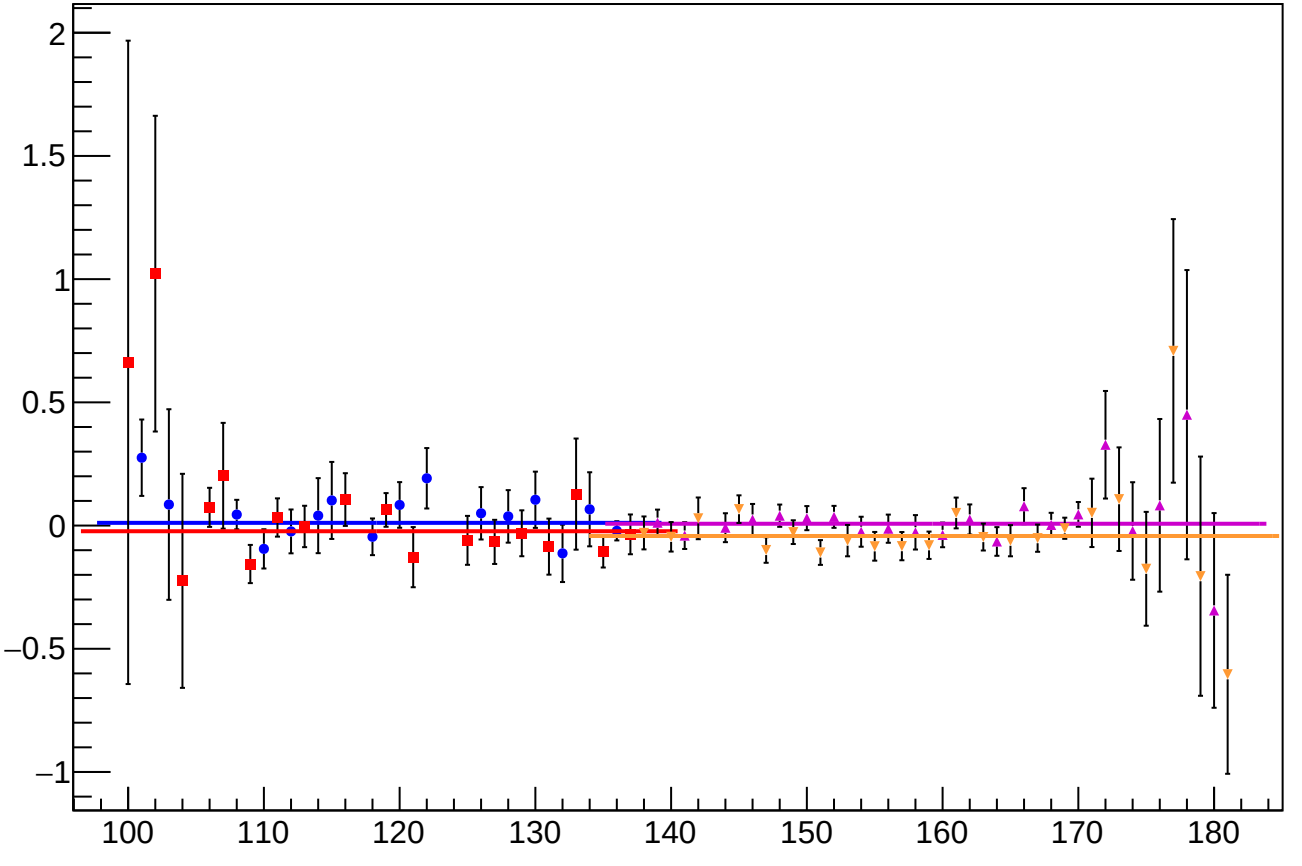
Right: 0.004+/-0.000 $\chi^2$/NDF: 6282872.0/33

In: 0.002+/-0.000 $\chi^2$/NDF:13046656.0/36

Out: 0.002+/-0.000 $\chi^2$/NDF:15150570.2/39

All: 0.002+/-0.000 $\chi^2$/NDF: 28233044.3/76

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.011+/-0.022 $\chi^2$/NDF: 11.7/15

Left Out: -0.042+/-0.014 $\chi^2$/NDF:17.4/21

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 15.9/17

Left In: 0.007+/-0.014 $\chi^2$/NDF:10.3/20

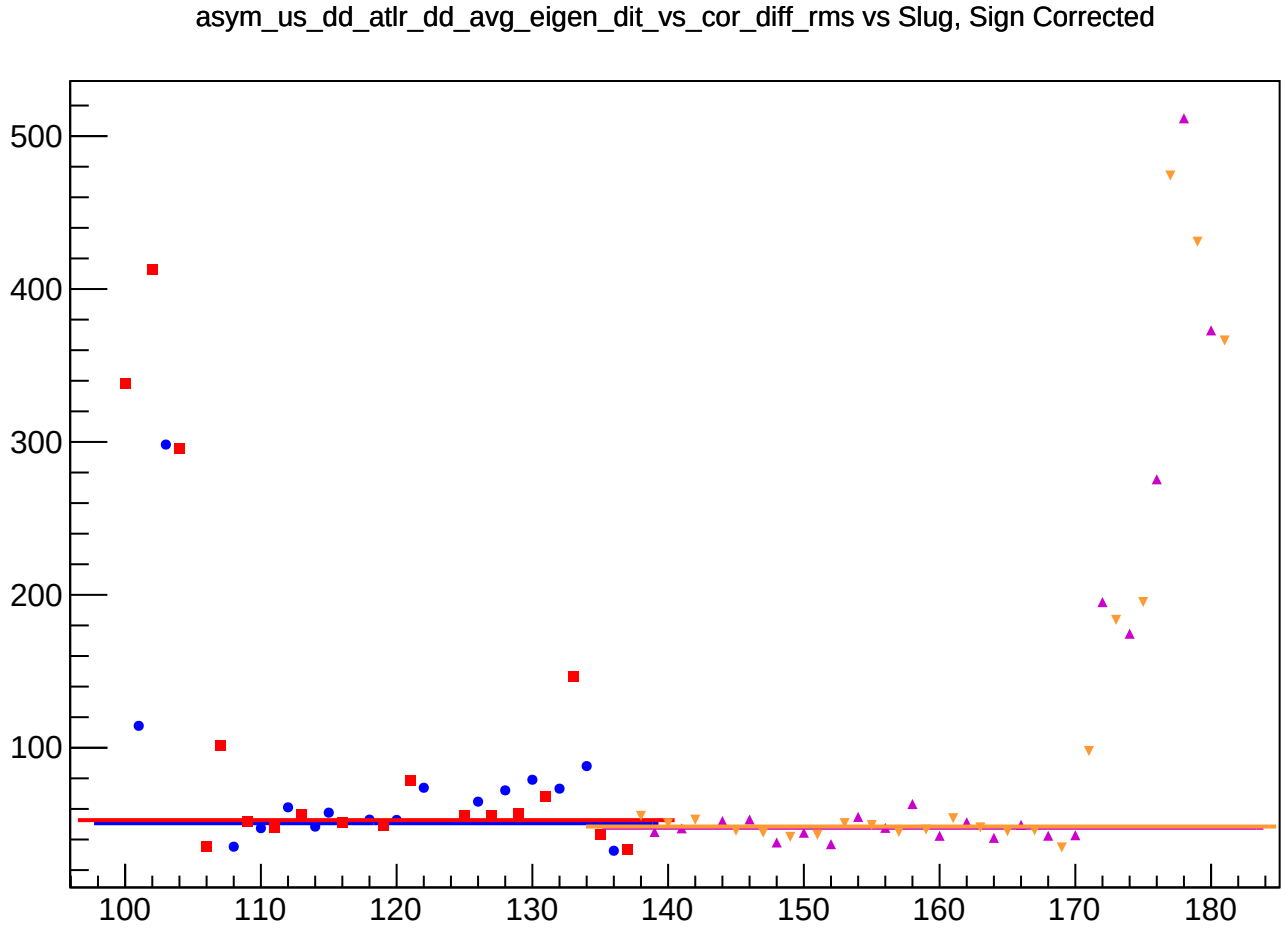
Left: -0.017+/-0.010 $\chi^2$/NDF: 34.2/42

Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.008+/-0.012 $\chi^2$/NDF:22.0/36

Out: -0.037+/-0.012 $\chi^2$/NDF:33.9/39

All: -0.014+/-0.008 $\chi^2$/NDF: 63.4/76




Right In: 50.646+/-0.015 $\chi^2$/NDF: 2266348.3/15

Left Out: 48.488+/-0.010 $\chi^2$/NDF:5986220.4/21

Right Out: 52.667+/-0.016 $\chi^2$/NDF: 2211822.2/17

Left In: 47.684+/-0.010 $\chi^2$/NDF:5658123.8/20

Left: 48.075+/-0.007 $\chi^2$/NDF: 11647770.7/42

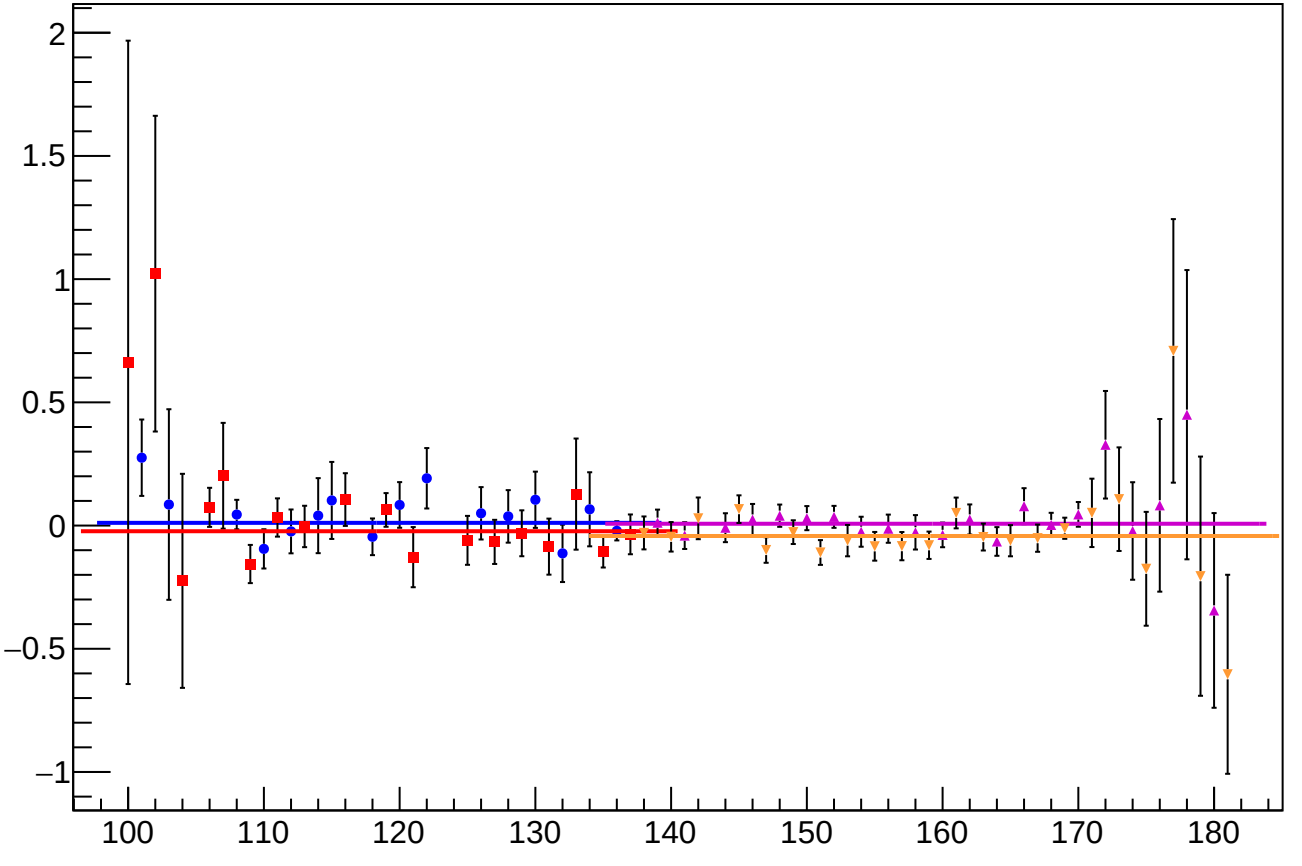
Right: 51.601+/-0.011 $\chi^2$/NDF: 4486238.7/33

In: 48.505+/-0.008 $\chi^2$/NDF:7950981.1/36

Out: 49.602+/-0.008 $\chi^2$/NDF:8245991.5/39

All: 49.034+/-0.006 $\chi^2$/NDF: 16205731.1/76

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.011+/-0.022 $\chi^2$/NDF: 11.7/15

Left Out: -0.042+/-0.014 $\chi^2$/NDF:17.4/21

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 15.9/17

Left In: 0.007+/-0.014 $\chi^2$/NDF:10.3/20

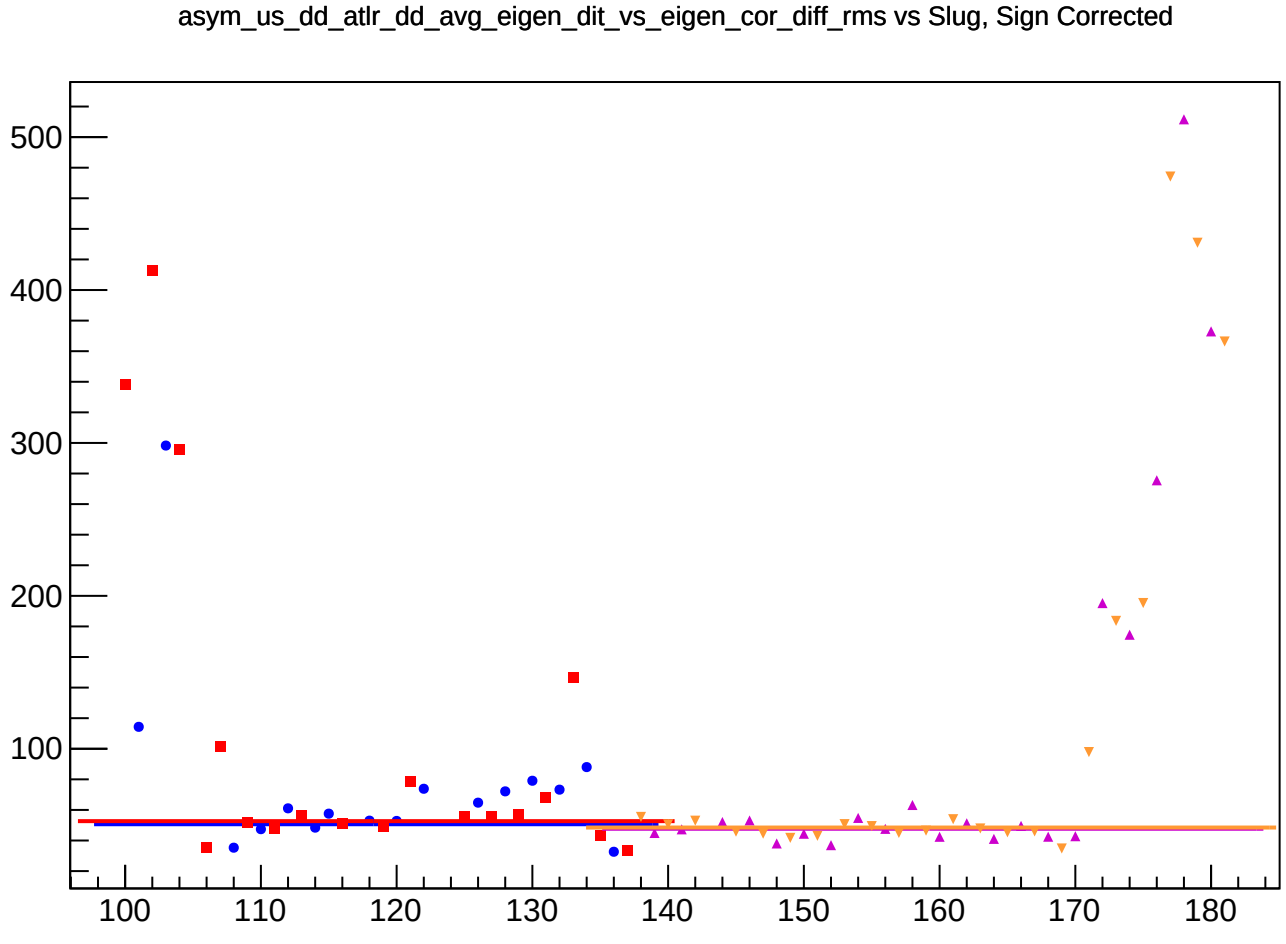
Left: -0.017+/-0.010 $\chi^2$/NDF: 34.2/42

Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.008+/-0.012 $\chi^2$/NDF:22.0/36

Out: -0.037+/-0.012 $\chi^2$/NDF:33.9/39

All: -0.014+/-0.008 $\chi^2$/NDF: 63.4/76




Right In: 50.646+/-0.015 $\chi^2$/NDF: 2266348.3/15

Left Out: 48.488+/-0.010 $\chi^2$/NDF:5986220.4/21

Right Out: 52.667+/-0.016 $\chi^2$/NDF: 2211822.2/17

Left In: 47.684+/-0.010 $\chi^2$/NDF:5658123.8/20

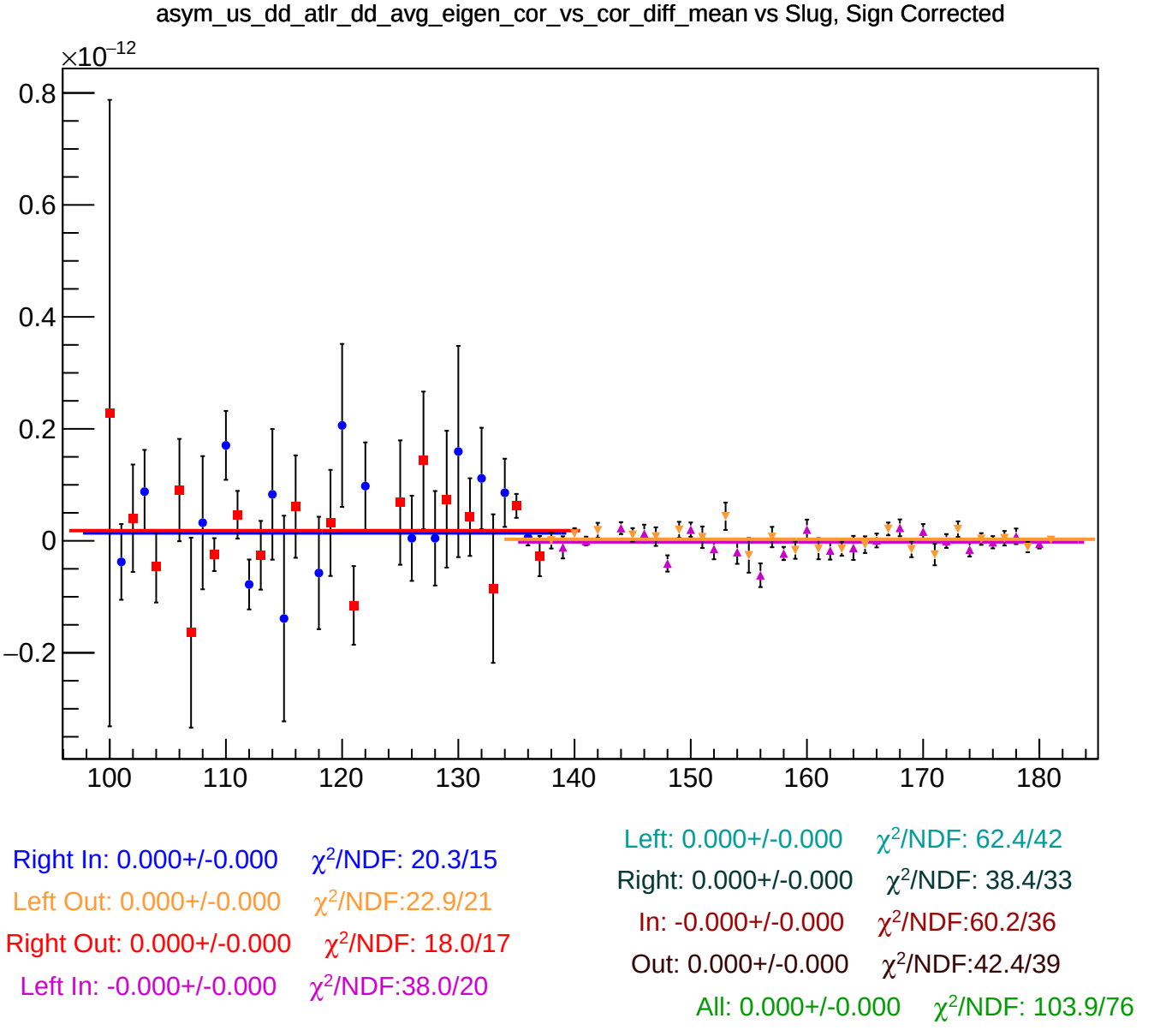
Left: 48.075+/-0.007 $\chi^2$/NDF: 11647770.7/42

Right: 51.601+/-0.011 $\chi^2$/NDF: 4486238.7/33

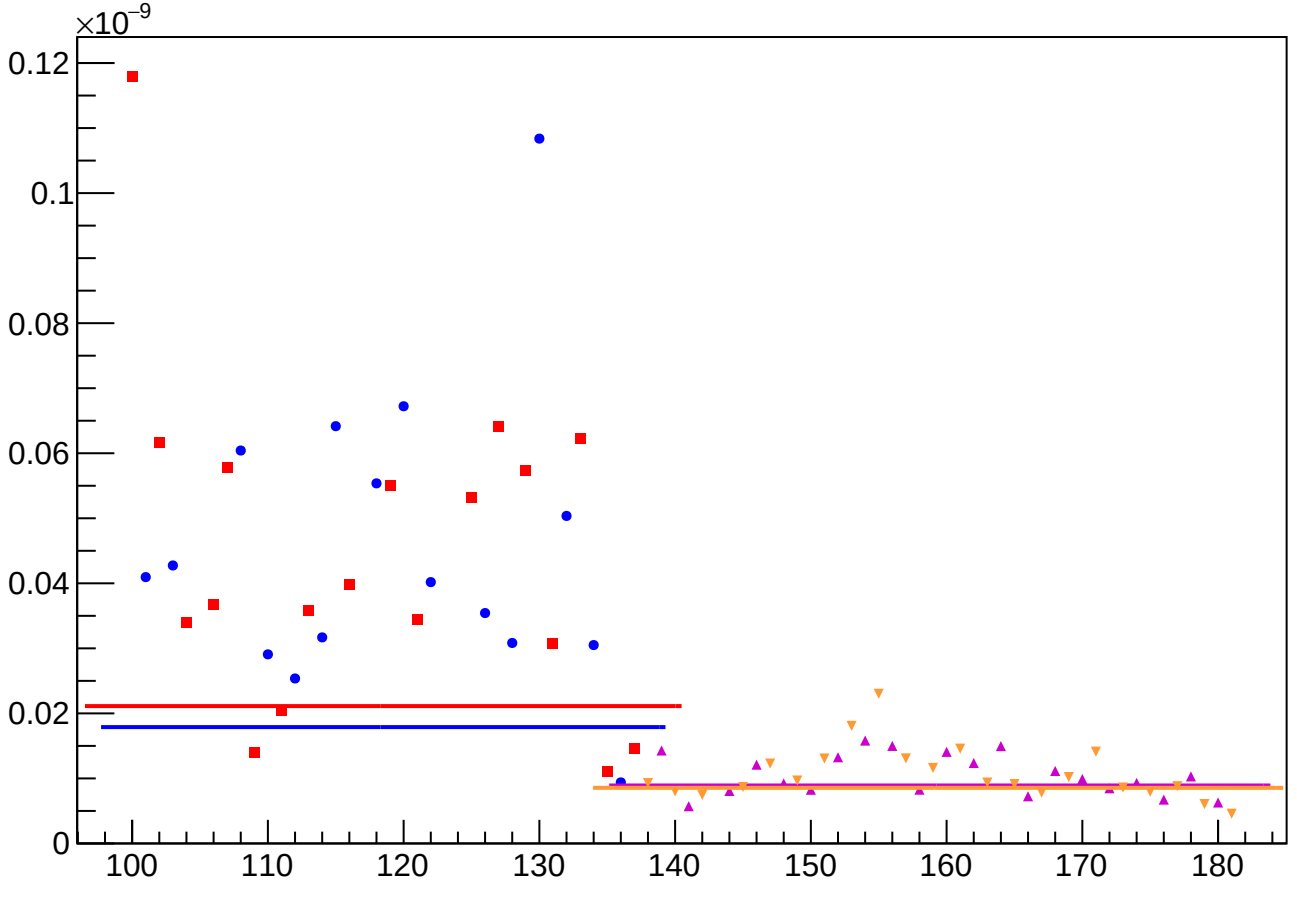
In: 48.505+/-0.008 $\chi^2$/NDF:7950981.1/36

Out: 49.602+/-0.008 $\chi^2$/NDF:8245991.5/39

All: 49.034+/-0.006 $\chi^2$/NDF: 16205731.1/76


asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.8
0.6
0.4
0.2
0
−0.2
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 20.3/15
Left Out: 0.000+/-0.000 χ²/NDF:22.9/21
Right Out: 0.000+/-0.000 χ²/NDF: 18.0/17
Left In: -0.000+/-0.000 χ²/NDF:38.0/20
Left: 0.000+/-0.000 χ²/NDF: 62.4/42
Right: 0.000+/-0.000 χ²/NDF: 38.4/33
In: -0.000+/-0.000 χ²/NDF:60.2/36
Out: 0.000+/-0.000 χ²/NDF:42.4/39
All: 0.000+/-0.000 χ²/NDF: 103.9/76

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3398524.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2488706.9/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2621588.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1885890.6/20

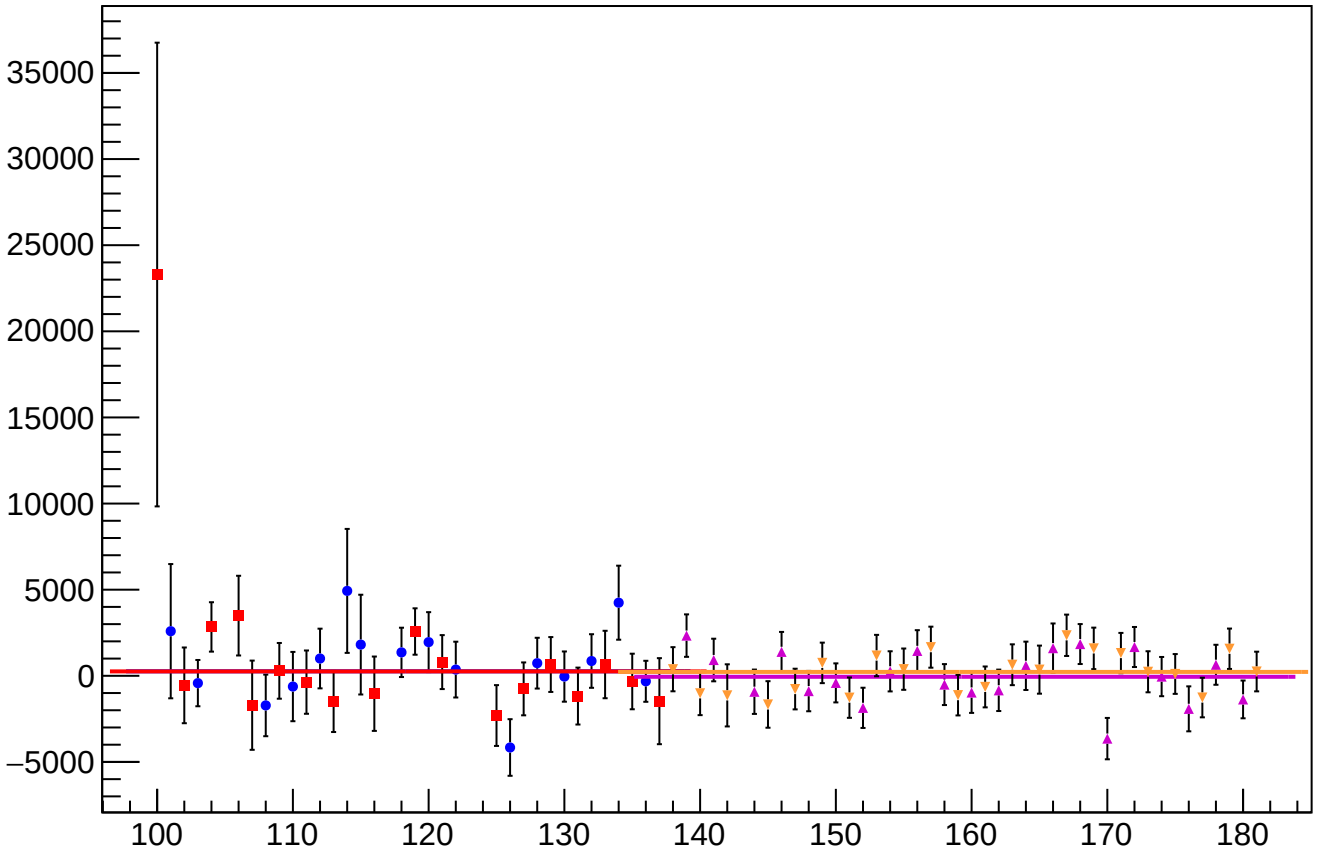
Left: 0.000+/-0.000 $\chi^2$/NDF: 4391295.2/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 6093228.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:6466934.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7028480.3/39

All: 0.000+/-0.000 $\chi^2$/NDF: 13508897.4/76




Right In: 260.797+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: 226.297+/-259.853 $\chi^2$/NDF:18.4/21

Right Out: 255.934+/-425.784 $\chi^2$/NDF: 17.4/17

Left In: -57.245+/-262.167 $\chi^2$/NDF:31.4/20

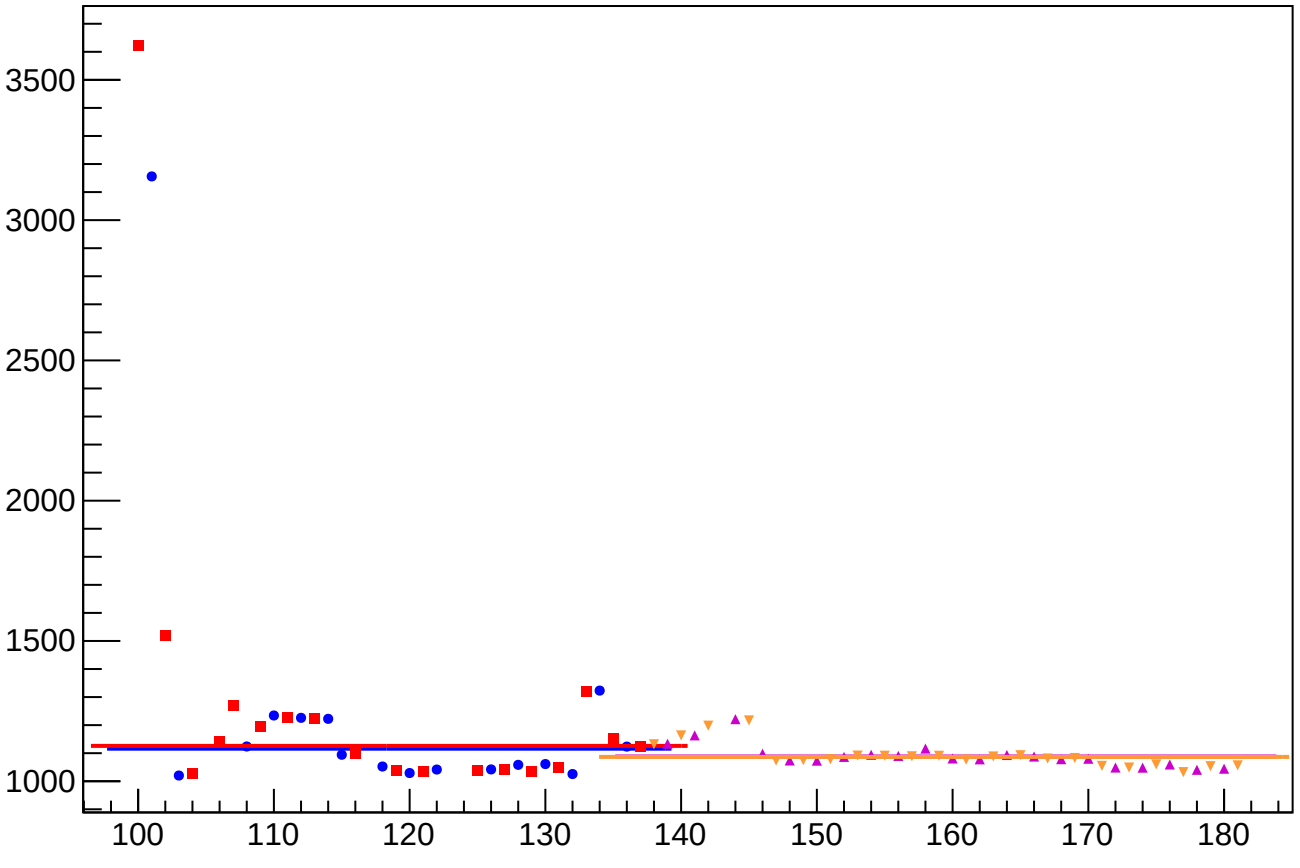
Left: 85.783+/-184.556 $\chi^2$/NDF: 50.4/42

Right: 258.372+/-300.676 $\chi^2$/NDF: 34.3/33

In: 30.521+/-223.080 $\chi^2$/NDF:48.8/36

Out: 234.340+/-221.808 $\chi^2$/NDF:35.8/39

All: 133.013+/-157.290 $\chi^2$/NDF: 85.0/76




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623390.9/15

Left Out: 1086.726+/-0.184 $\chi^2$/NDF:48828.2/21

Right Out: 1126.016+/-0.301 $\chi^2$/NDF: 222106.0/17

Left In: 1088.242+/-0.185 $\chi^2$/NDF:46136.6/20

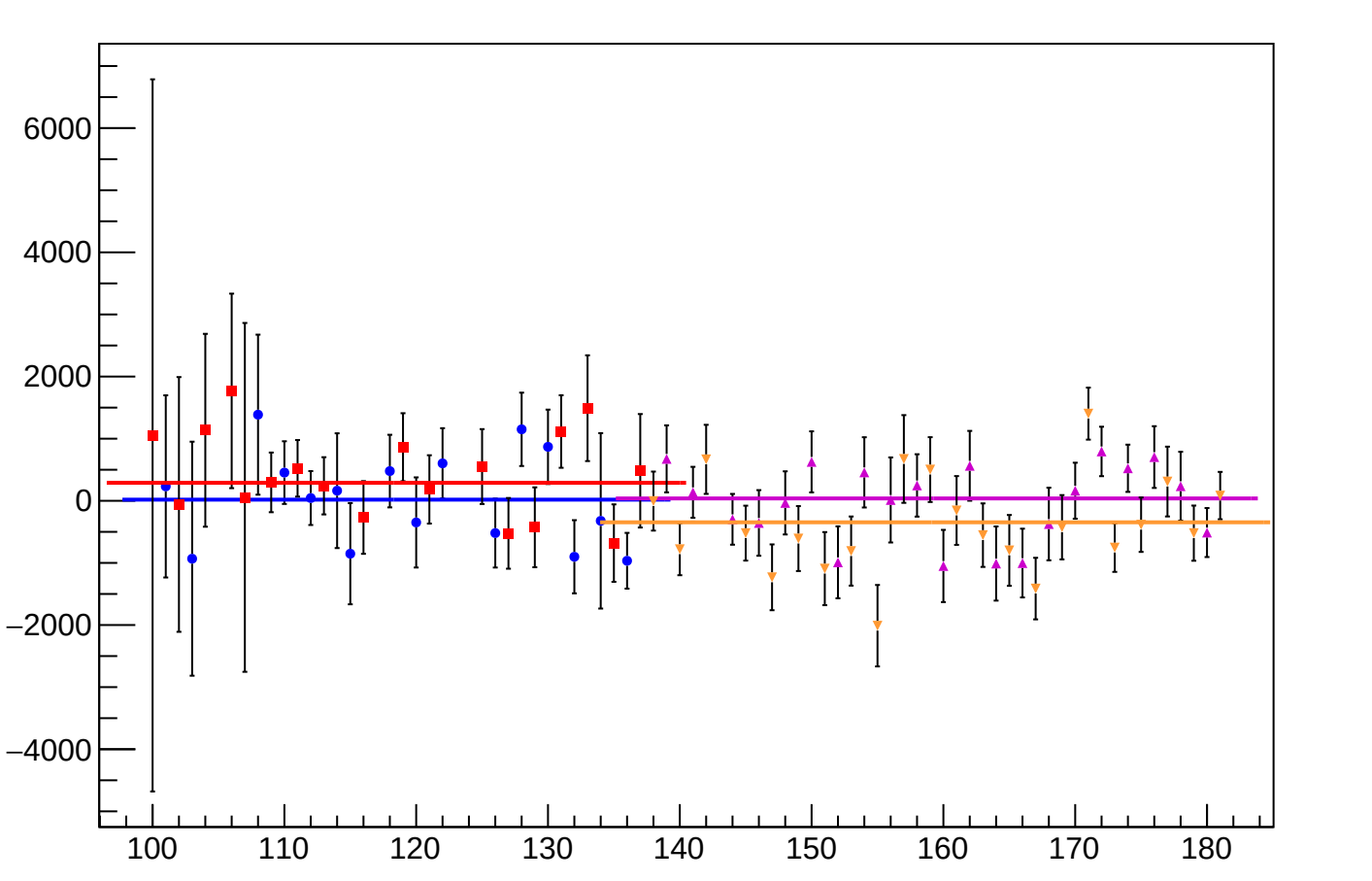
Left: 1087.477+/-0.131 $\chi^2$/NDF: 94998.6/42

Right: 1121.039+/-0.213 $\chi^2$/NDF: 846041.8/33

In: 1095.927+/-0.158 $\chi^2$/NDF:675754.3/36

Out: 1097.388+/-0.157 $\chi^2$/NDF:283342.5/39

All: 1096.662+/-0.111 $\chi^2$/NDF: 959140.0/76




Right In: 18.468+/-161.237 $\chi^2$/NDF: 19.2/15

Left Out: -346.281+/-105.187 $\chi^2$/NDF:48.5/21

Right Out: 289.946+/-156.189 $\chi^2$/NDF: 13.5/17

Left In: 37.848+/-107.727 $\chi^2$/NDF:28.7/20

Left: -158.798+/-75.260 $\chi^2$/NDF: 83.7/42

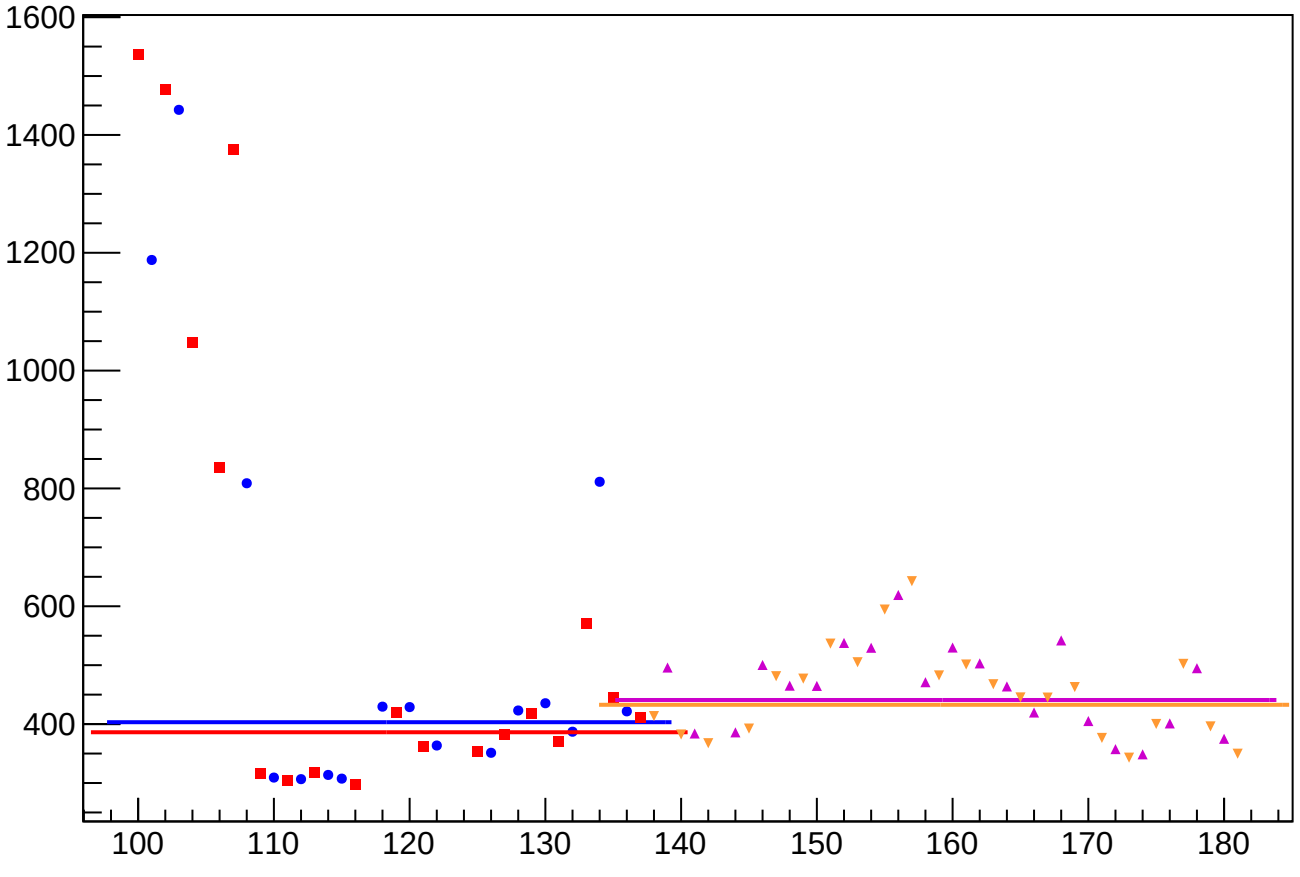
Right: 158.523+/-112.184 $\chi^2$/NDF: 34.1/33

In: 31.867+/-89.574 $\chi^2$/NDF:47.9/36

Out: -147.760+/-87.246 $\chi^2$/NDF:73.4/39

All: -60.311+/-62.499 $\chi^2$/NDF: 123.4/76

asym_us_dd_atlr_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 403.194+/-0.114 $\chi^2$/NDF: 1808432.3/15

Left Out: 432.760+/-0.074 $\chi^2$/NDF:860368.0/21

Right Out: 386.146+/-0.110 $\chi^2$/NDF: 1759113.8/17

Left In: 440.902+/-0.076 $\chi^2$/NDF:820600.5/20

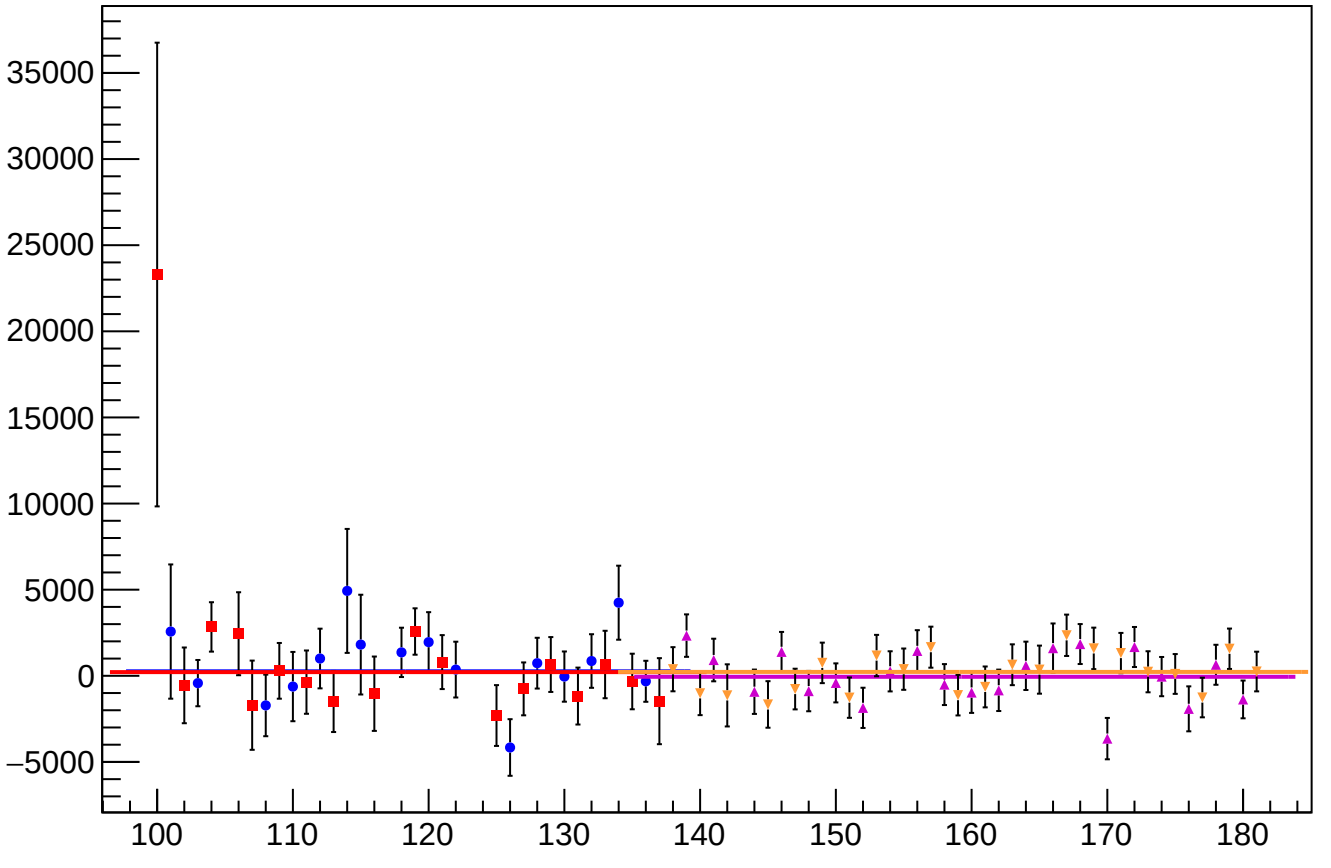
Left: 436.734+/-0.053 $\chi^2$/NDF: 1686818.0/42

Right: 394.399+/-0.079 $\chi^2$/NDF: 3579081.1/33

In: 429.265+/-0.063 $\chi^2$/NDF:2704661.5/36

Out: 418.215+/-0.062 $\chi^2$/NDF:2742035.9/39

All: 423.594+/-0.044 $\chi^2$/NDF: 5462315.1/76




Right In: 260.415+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: 226.291+/-259.853 $\chi^2$/NDF:18.4/21

Right Out: 214.501+/-426.342 $\chi^2$/NDF: 16.2/17

Left In: -57.266+/-262.167 $\chi^2$/NDF:31.4/20

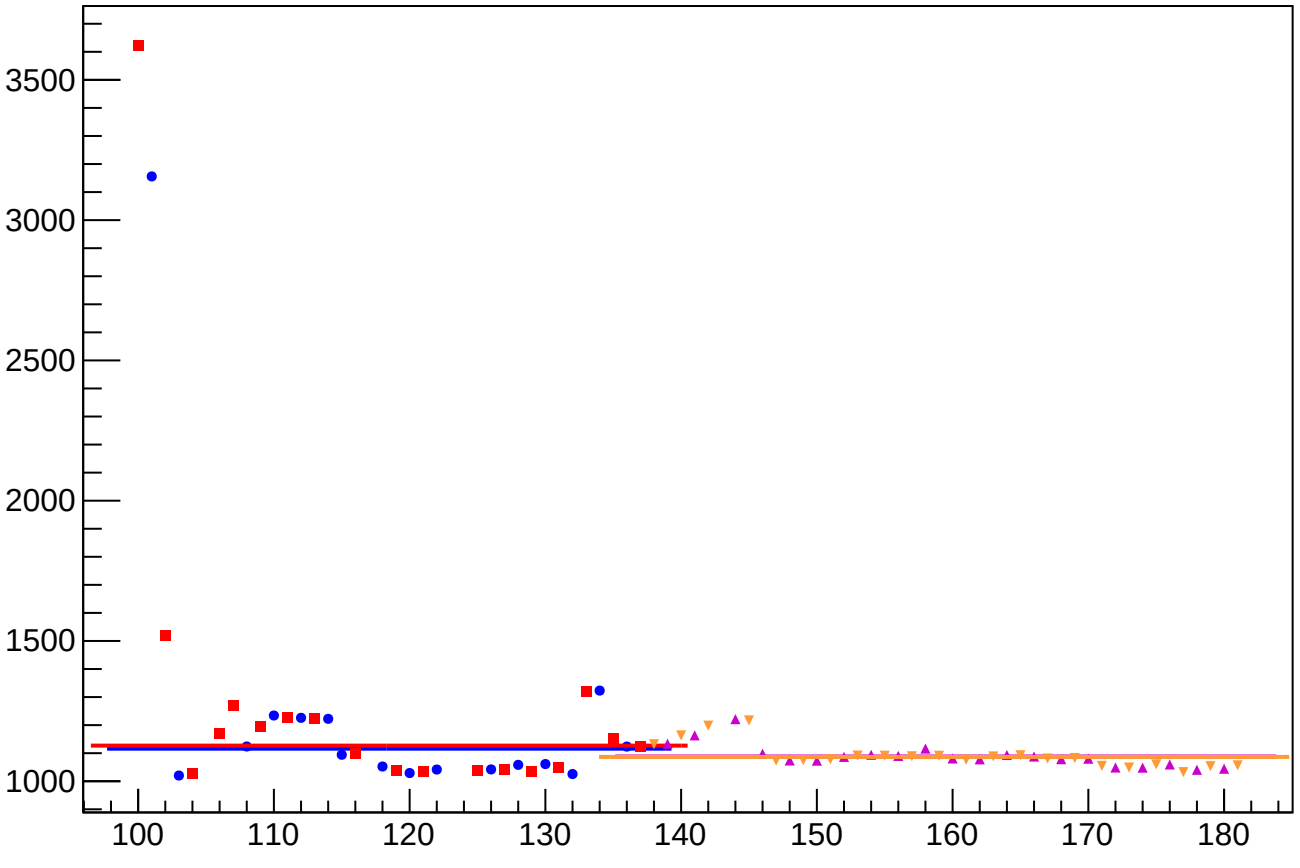
Left: 85.770+/-184.556 $\chi^2$/NDF: 50.4/42

Right: 237.549+/-300.872 $\chi^2$/NDF: 33.2/33

In: 30.401+/-223.080 $\chi^2$/NDF:48.7/36

Out: 223.097+/-221.887 $\chi^2$/NDF:34.6/39

All: 127.266+/-157.318 $\chi^2$/NDF: 83.8/76




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623391.9/15

Left Out: 1086.726+/-0.184 $\chi^2$/NDF:48828.2/21

Right Out: 1126.960+/-0.301 $\chi^2$/NDF: 222740.2/17

Left In: 1088.242+/-0.185 $\chi^2$/NDF:46136.6/20

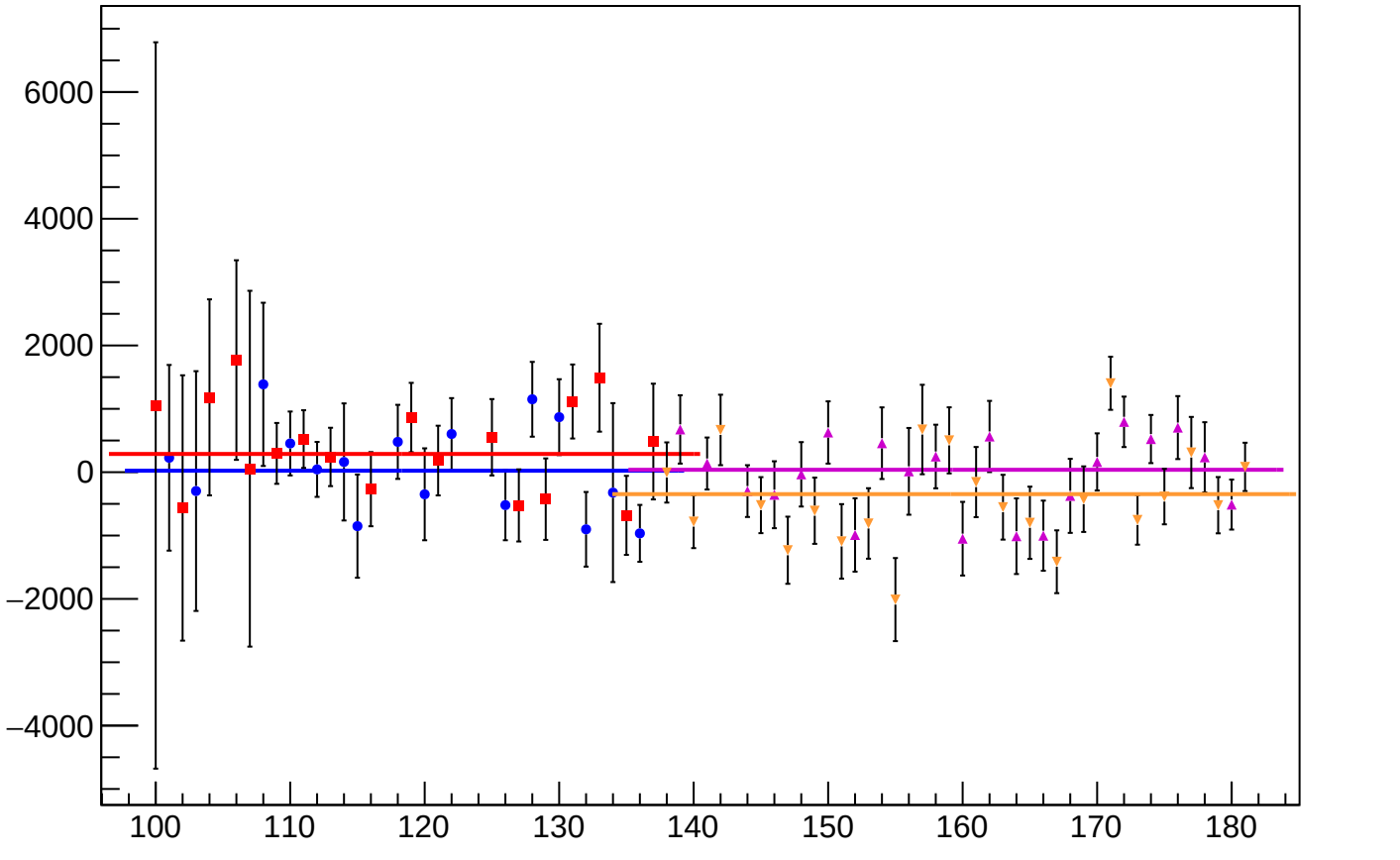
Left: 1087.477+/-0.131 $\chi^2$/NDF: 94998.6/42

Right: 1121.503+/-0.213 $\chi^2$/NDF: 846784.8/33

In: 1095.927+/-0.158 $\chi^2$/NDF:675755.2/36

Out: 1097.624+/-0.157 $\chi^2$/NDF:284555.8/39

All: 1096.780+/-0.111 $\chi^2$/NDF: 960369.2/76




Right In: 22.923+/-161.238 $\chi^2$/NDF: 19.0/15

Left Out: -346.355+/-105.186 $\chi^2$/NDF:48.5/21

Right Out: 287.614+/-156.212 $\chi^2$/NDF: 13.7/17

Left In: 37.812+/-107.727 $\chi^2$/NDF:28.7/20

Left: -158.855+/-75.260 $\chi^2$/NDF: 83.7/42

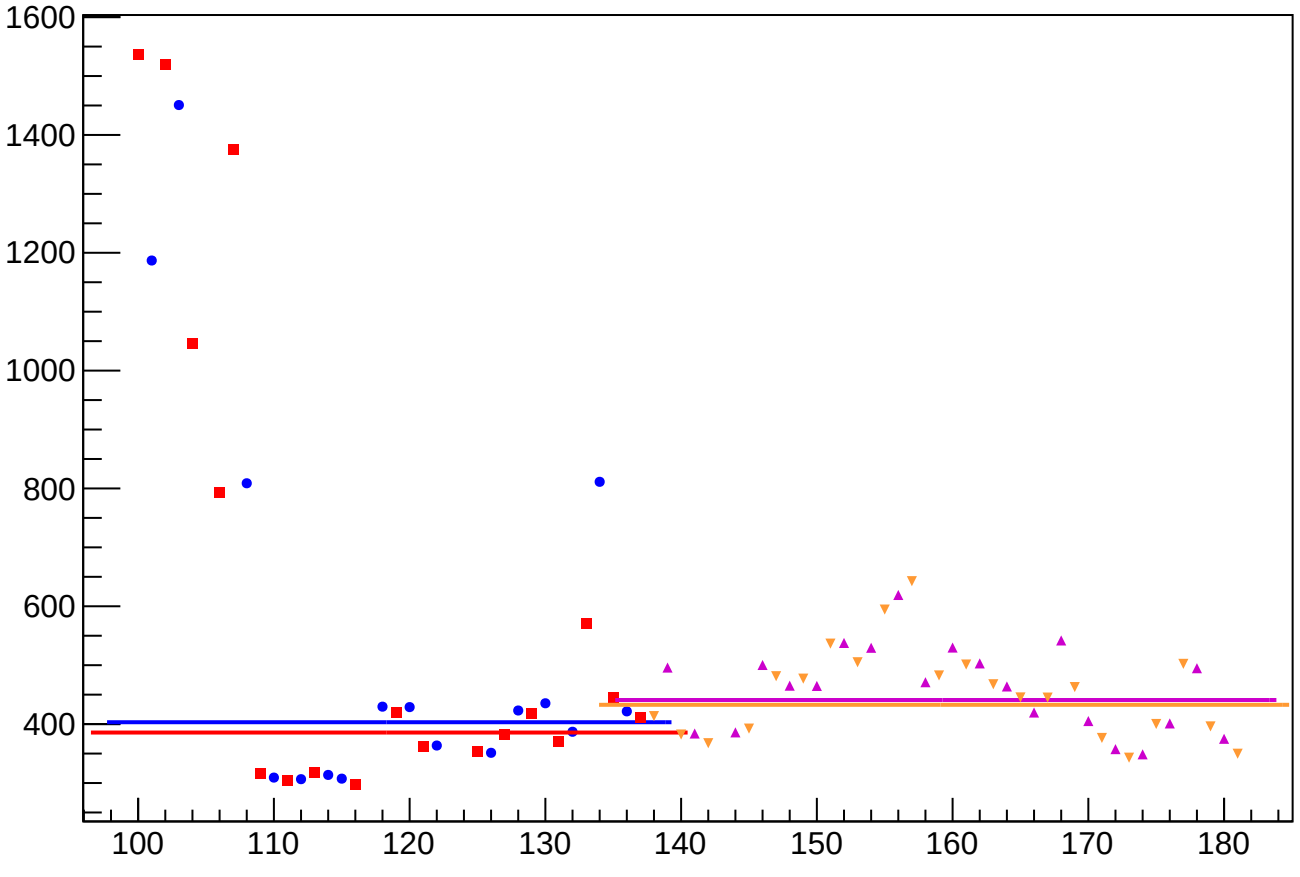
Right: 159.458+/-112.193 $\chi^2$/NDF: 34.0/33

In: 33.217+/-89.574 $\chi^2$/NDF:47.7/36

Out: -148.580+/-87.250 $\chi^2$/NDF:73.5/39

All: -60.071+/-62.501 $\chi^2$/NDF: 123.3/76

asym_us_dd_atlr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 403.182+/-0.114 $\chi^2$/NDF: 1812111.0/15

Left Out: 432.757+/-0.074 $\chi^2$/NDF:860453.7/21

Right Out: 385.682+/-0.110 $\chi^2$/NDF: 1747152.2/17

Left In: 440.904+/-0.076 $\chi^2$/NDF:820473.6/20

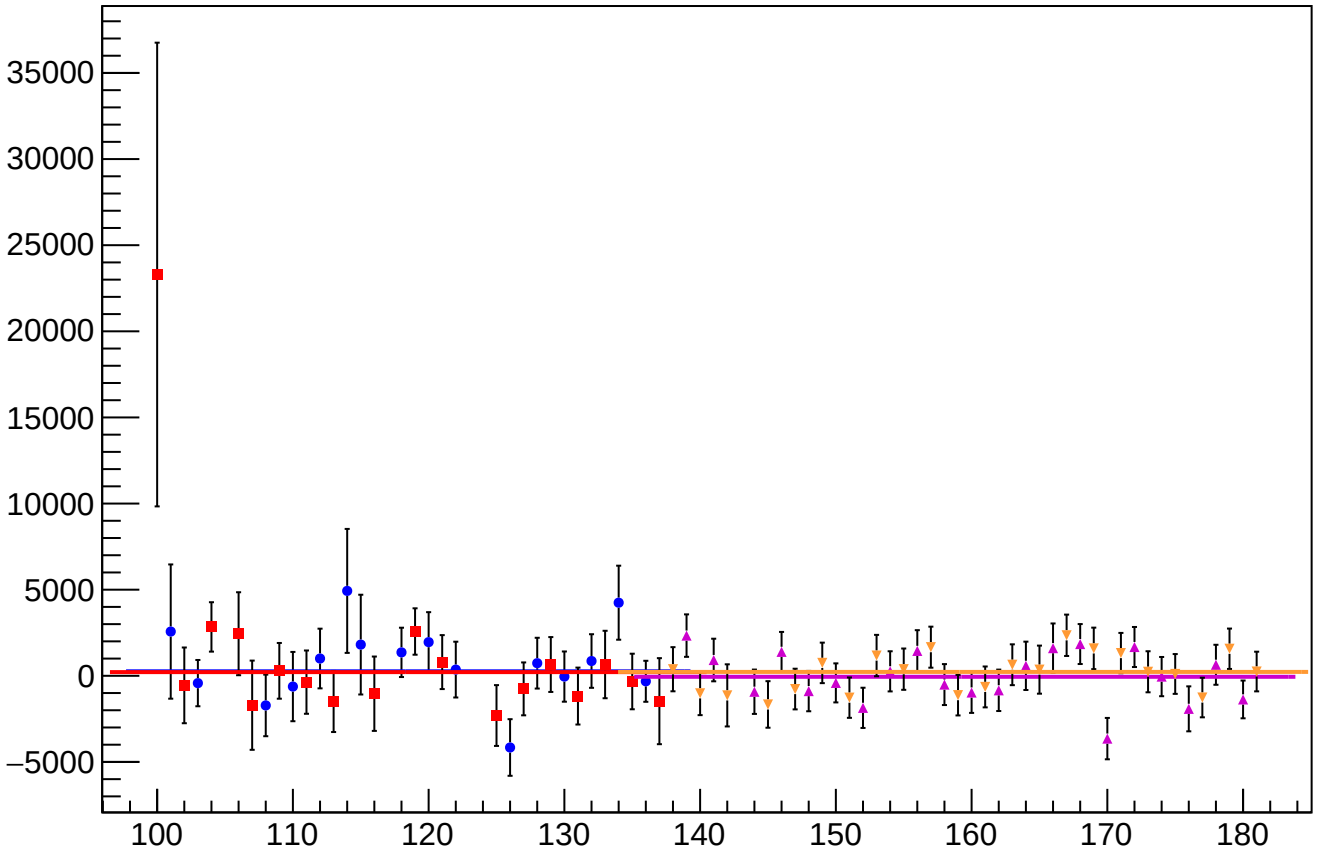
Left: 436.733+/-0.053 $\chi^2$/NDF: 1686782.7/42

Right: 394.155+/-0.079 $\chi^2$/NDF: 3571416.8/33

In: 429.262+/-0.063 $\chi^2$/NDF:2708265.1/36

Out: 418.071+/-0.062 $\chi^2$/NDF:2732574.2/39

All: 423.519+/-0.044 $\chi^2$/NDF: 5456857.7/76




Right In: 260.415+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: 226.291+/-259.853 $\chi^2$/NDF:18.4/21

Right Out: 214.501+/-426.342 $\chi^2$/NDF: 16.2/17

Left In: -57.266+/-262.167 $\chi^2$/NDF:31.4/20

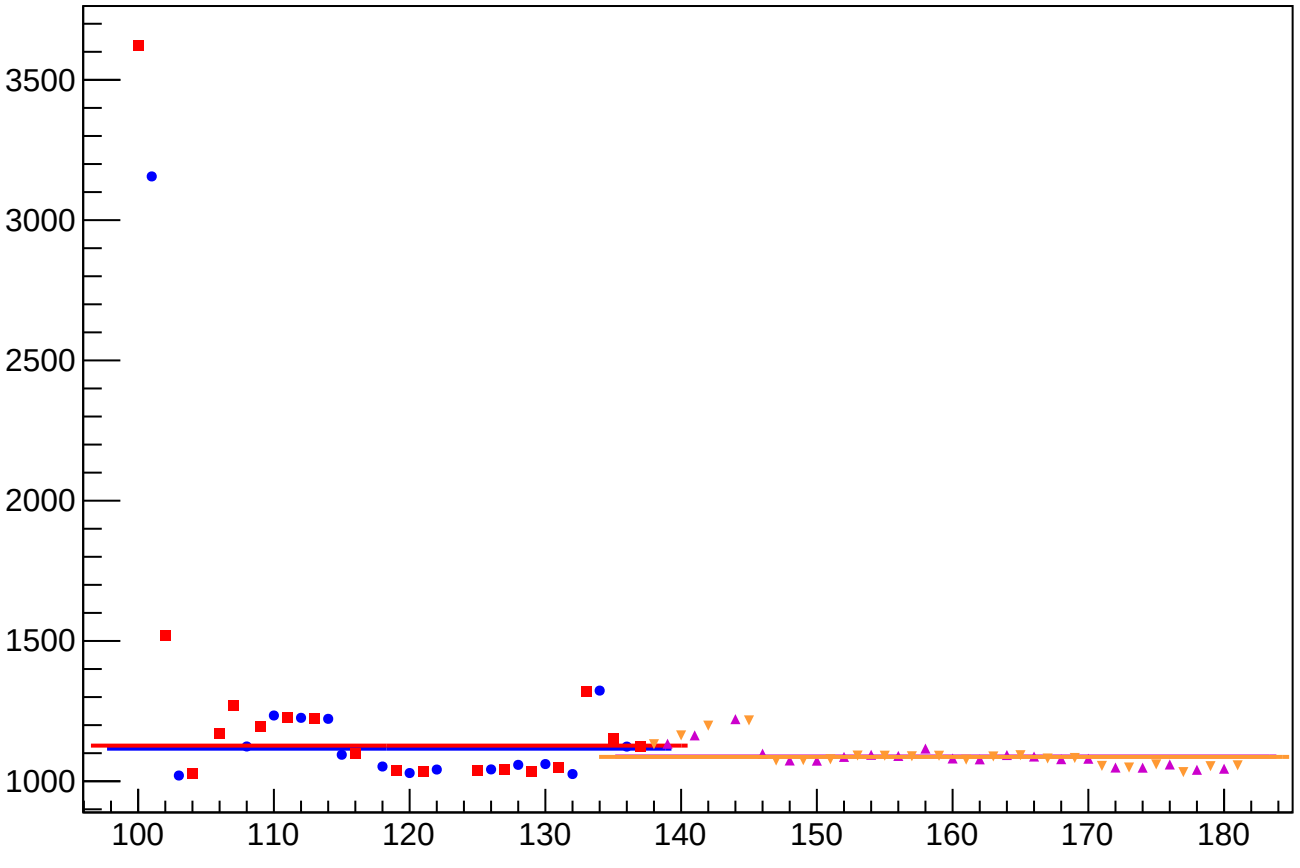
Left: 85.770+/-184.556 $\chi^2$/NDF: 50.4/42

Right: 237.549+/-300.872 $\chi^2$/NDF: 33.2/33

In: 30.401+/-223.080 $\chi^2$/NDF:48.7/36

Out: 223.097+/-221.887 $\chi^2$/NDF:34.6/39

All: 127.266+/-157.318 $\chi^2$/NDF: 83.8/76




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623391.9/15

Left Out: 1086.726+/-0.184 $\chi^2$/NDF:48828.2/21

Right Out: 1126.960+/-0.301 $\chi^2$/NDF: 222740.2/17

Left In: 1088.242+/-0.185 $\chi^2$/NDF:46136.6/20

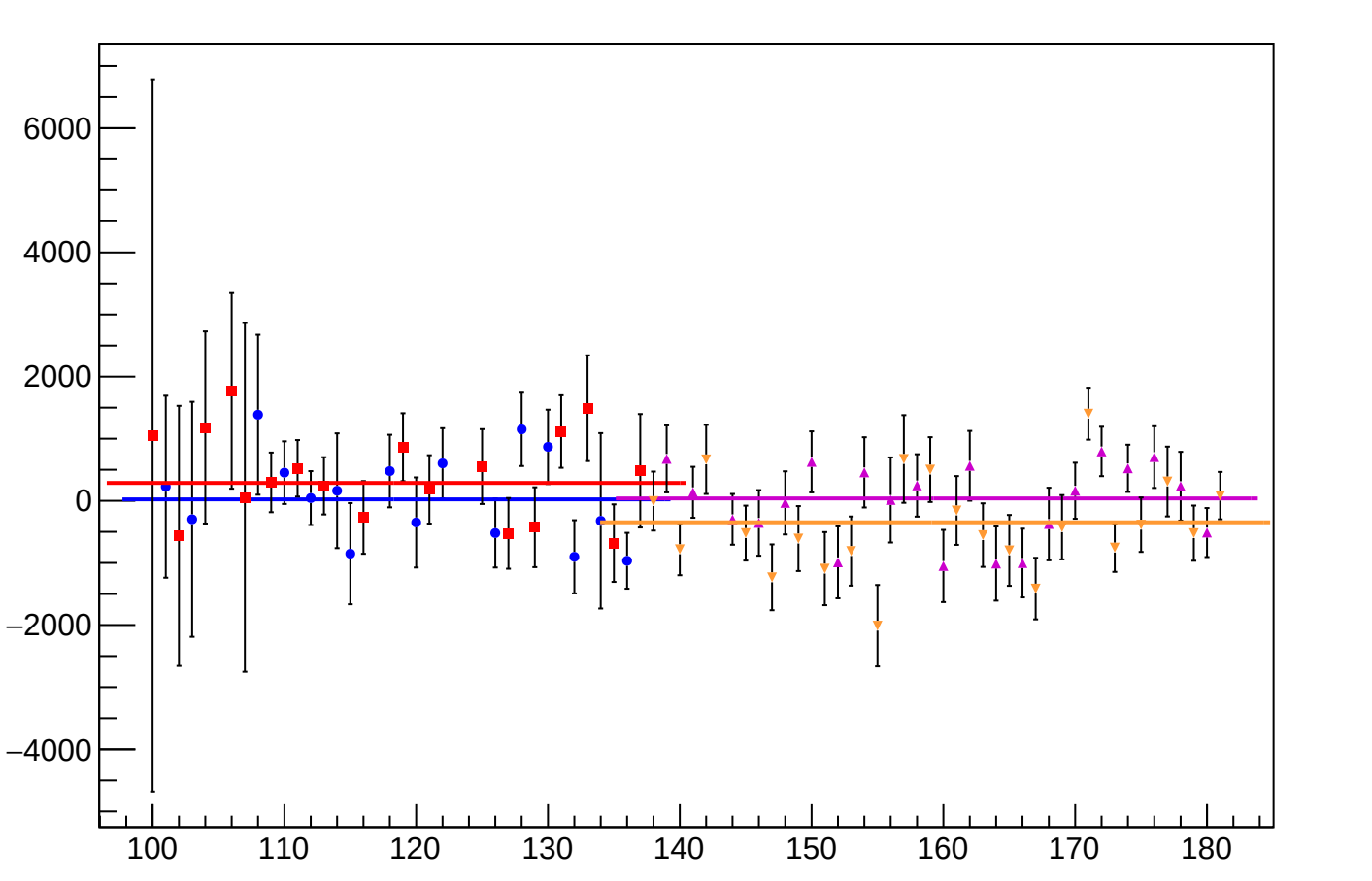
Left: 1087.477+/-0.131 $\chi^2$/NDF: 94998.6/42

Right: 1121.503+/-0.213 $\chi^2$/NDF: 846784.8/33

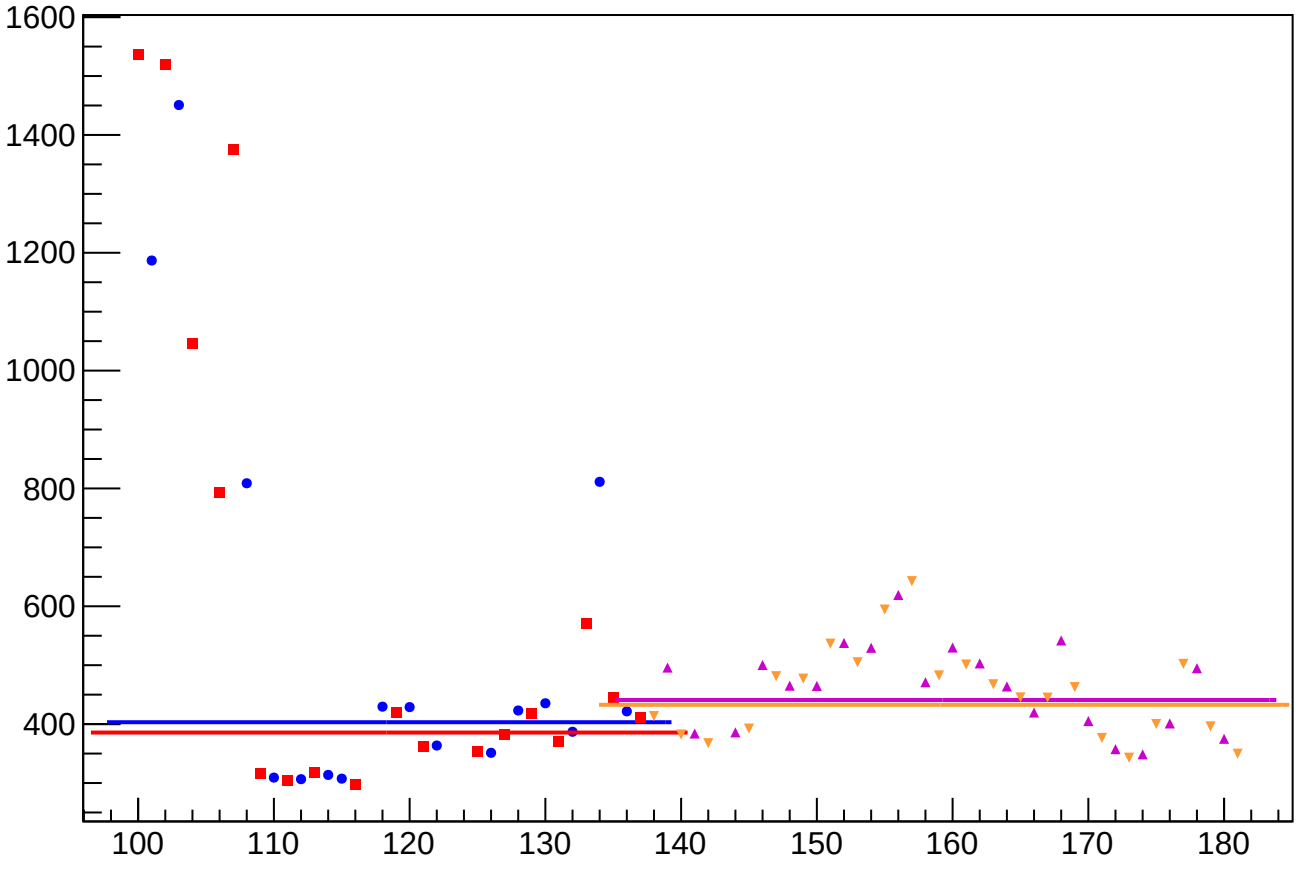
In: 1095.927+/-0.158 $\chi^2$/NDF:675755.2/36

Out: 1097.624+/-0.157 $\chi^2$/NDF:284555.8/39

All: 1096.780+/-0.111 $\chi^2$/NDF: 960369.2/76


asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
6000
4000
2000
0
−2000
−4000
100
110
120
130
140
150
160
170
180
Right In: 22.923+/-161.238 χ²/NDF: 19.0/15
Left Out: -346.355+/-105.186 χ²/NDF:48.5/21
Right Out: 287.614+/-156.212 χ²/NDF: 13.7/17
Left In: 37.812+/-107.727 χ²/NDF:28.7/20
Left: -158.855+/-75.260 χ²/NDF: 83.7/42
Right: 159.458+/-112.193 χ²/NDF: 34.0/33
In: 33.217+/-89.574 χ²/NDF:47.7/36
Out: -148.580+/-87.250 χ²/NDF:73.5/39
All: -60.071+/-62.501 χ²/NDF: 123.3/76

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 403.182+/-0.114 $\chi^2$/NDF: 1812111.0/15

Left Out: 432.757+/-0.074 $\chi^2$/NDF:860453.7/21

Right Out: 385.682+/-0.110 $\chi^2$/NDF: 1747152.2/17

Left In: 440.904+/-0.076 $\chi^2$/NDF:820473.6/20

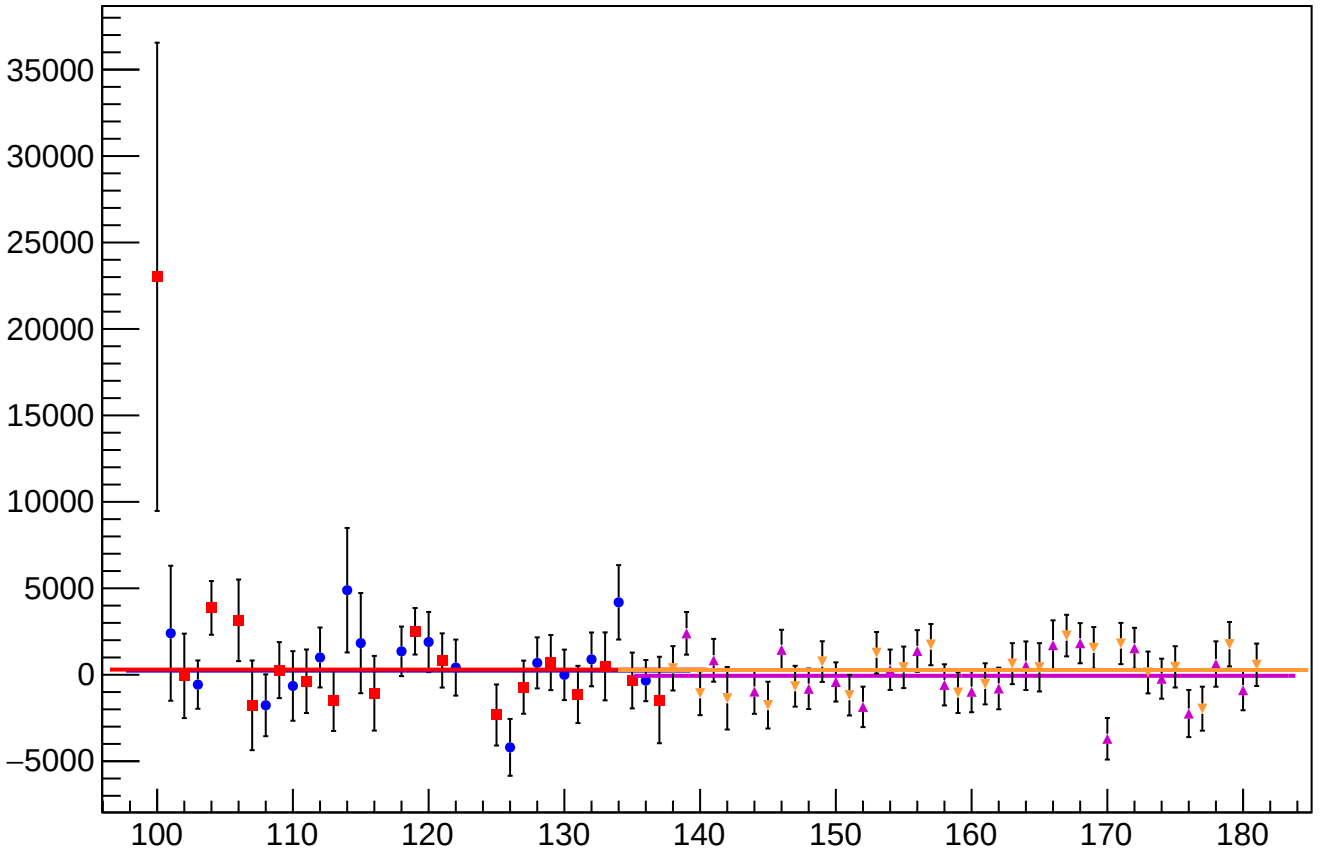
Left: 436.733+/-0.053 $\chi^2$/NDF: 1686782.7/42

Right: 394.155+/-0.079 $\chi^2$/NDF: 3571416.8/33

In: 429.262+/-0.063 $\chi^2$/NDF:2708265.1/36

Out: 418.071+/-0.062 $\chi^2$/NDF:2732574.2/39

All: 423.519+/-0.044 $\chi^2$/NDF: 5456857.7/76




Right In: 240.827+/-426.592 $\chi^2$/NDF: 17.0/15

Left Out: 275.297+/-264.046 $\chi^2$/NDF:20.6/21

Right Out: 298.921+/-430.767 $\chi^2$/NDF: 18.7/17

Left In: -59.567+/-265.610 $\chi^2$/NDF:30.9/20

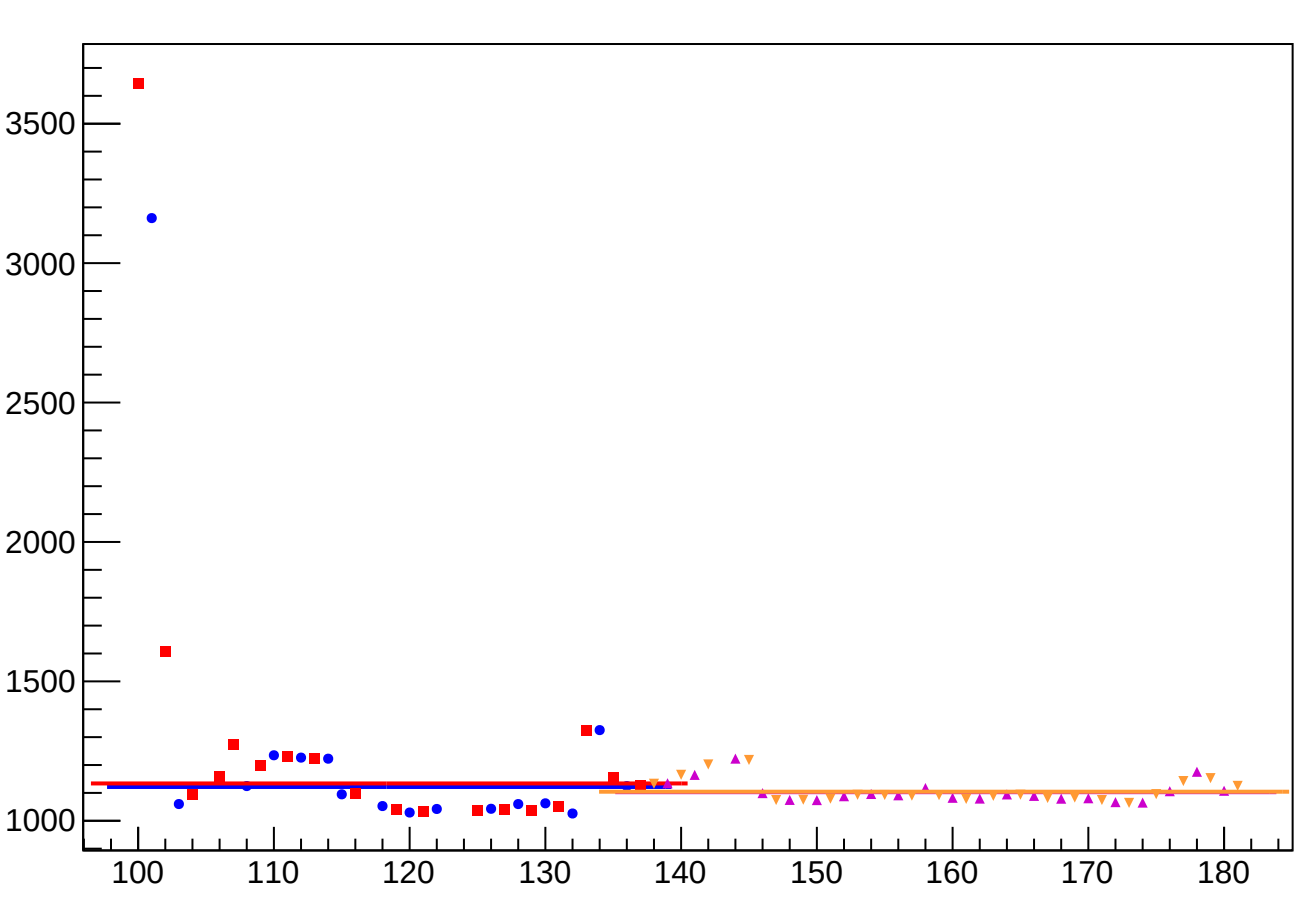
Left: 108.854+/-187.259 $\chi^2$/NDF: 52.3/42

Right: 269.591+/-303.111 $\chi^2$/NDF: 35.6/33

In: 24.354+/-225.477 $\chi^2$/NDF:48.2/36

Out: 281.749+/-225.119 $\chi^2$/NDF:39.3/39

All: 153.255+/-159.310 $\chi^2$/NDF: 88.2/76




Right In: 1121.294+/-0.302 $\chi^2$/NDF: 617028.4/15

Left Out: 1104.301+/-0.187 $\chi^2$/NDF:41308.1/21

Right Out: 1133.929+/-0.305 $\chi^2$/NDF: 227457.1/17

Left In: 1102.551+/-0.188 $\chi^2$/NDF:40237.8/20

Left: 1103.431+/-0.132 $\chi^2$/NDF: 81589.5/42

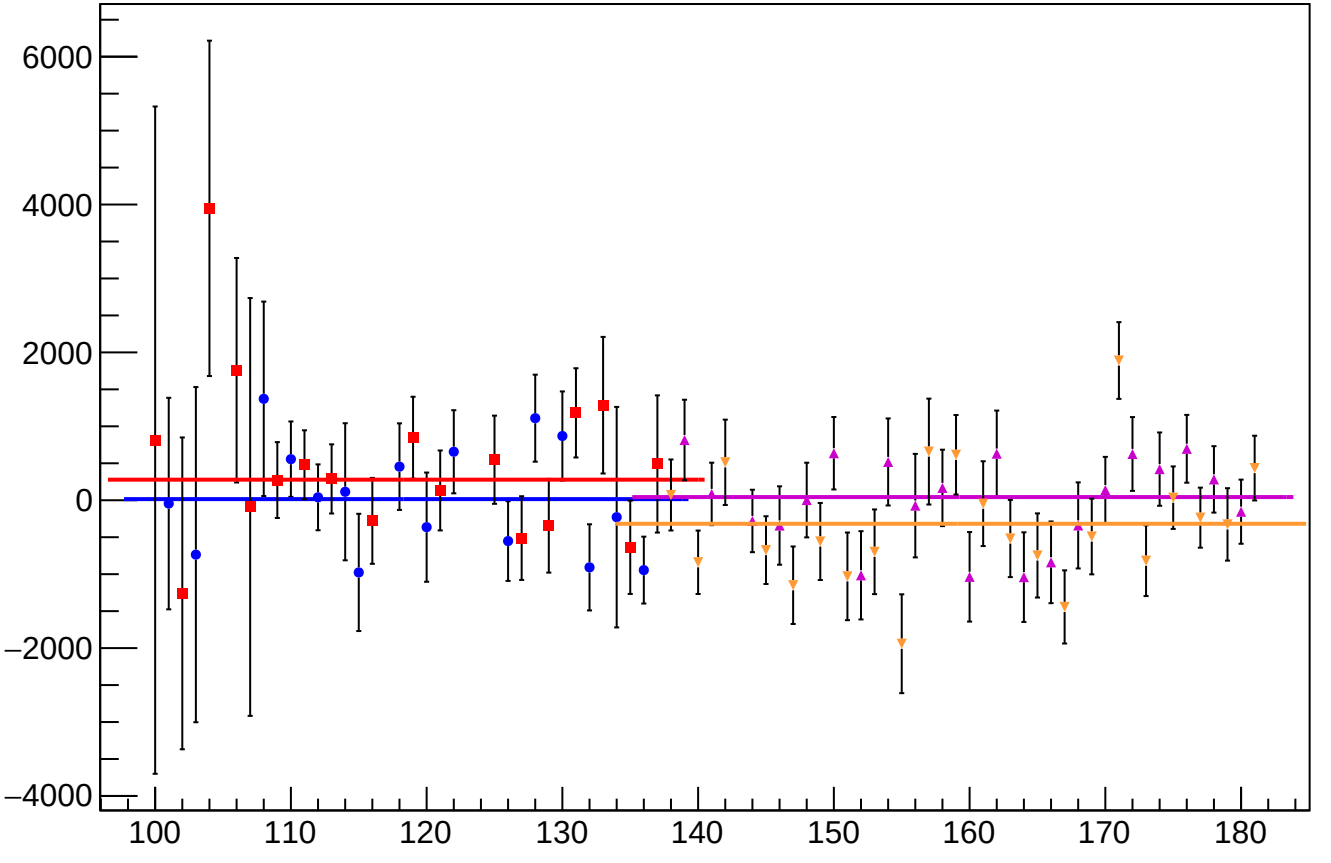
Right: 1127.550+/-0.214 $\chi^2$/NDF: 845354.2/33

In: 1107.787+/-0.159 $\chi^2$/NDF:660048.5/36

Out: 1112.393+/-0.159 $\chi^2$/NDF:275642.6/39

All: 1110.093+/-0.113 $\chi^2$/NDF: 936109.1/76

asym_us_dd_atlr_dd_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 15.291+/-161.845 $\chi^2$/NDF: 19.6/15

Left Out: -318.328+/-108.323 $\chi^2$/NDF:49.3/21

Right Out: 278.251+/-158.828 $\chi^2$/NDF: 15.1/17

Left In: 43.082+/-111.539 $\chi^2$/NDF:23.4/20

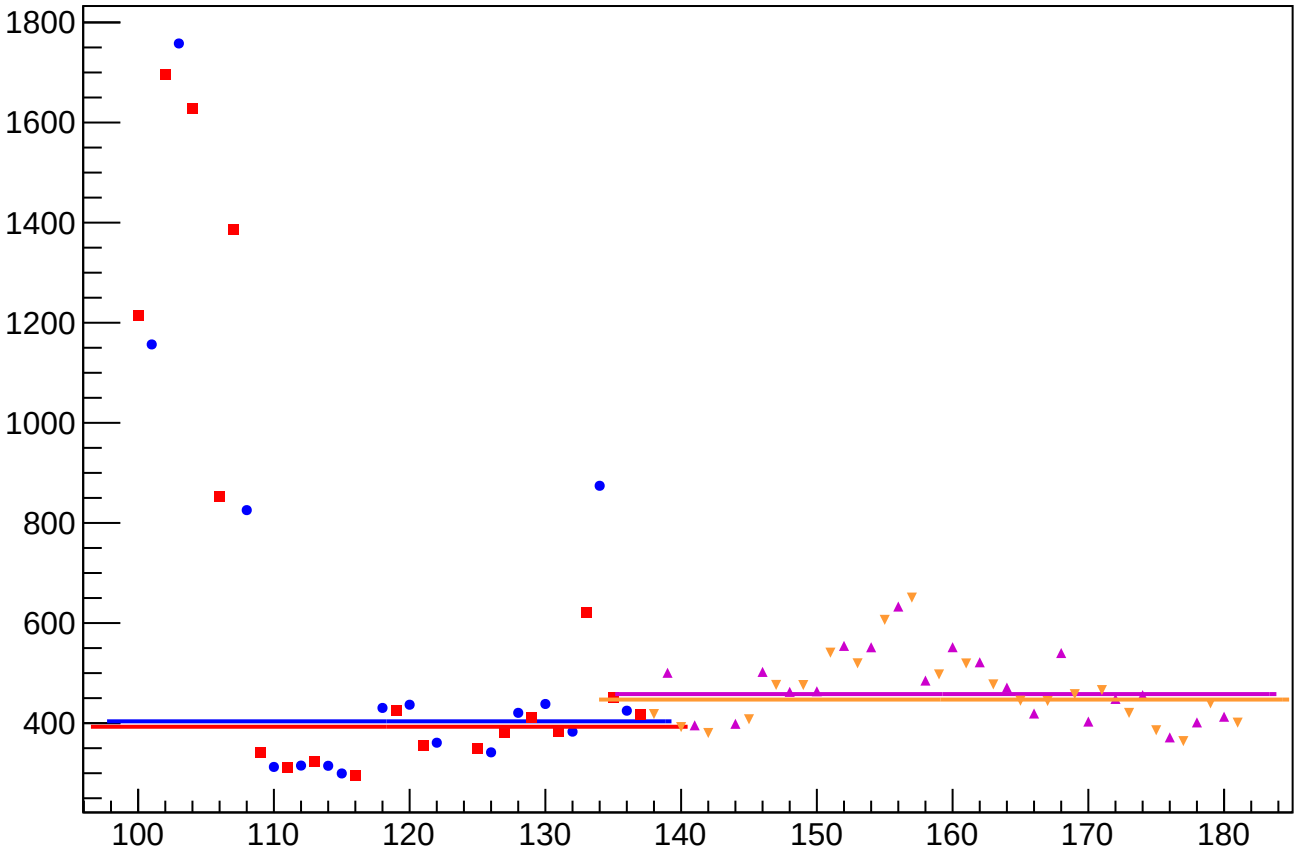
Left: -142.908+/-77.708 $\chi^2$/NDF: 78.1/42

Right: 149.246+/-113.360 $\chi^2$/NDF: 36.0/33

In: 34.133+/-91.841 $\chi^2$/NDF:43.0/36

Out: -128.929+/-89.491 $\chi^2$/NDF:74.0/39

All: -49.511+/-64.095 $\chi^2$/NDF: 118.6/76




Right In: 403.656+/-0.114 $\chi^2$/NDF: 1929597.5/15

Left Out: 447.137+/-0.077 $\chi^2$/NDF:665345.2/21

Right Out: 392.820+/-0.112 $\chi^2$/NDF: 2203456.1/17

Left In: 458.101+/-0.079 $\chi^2$/NDF:619982.3/20

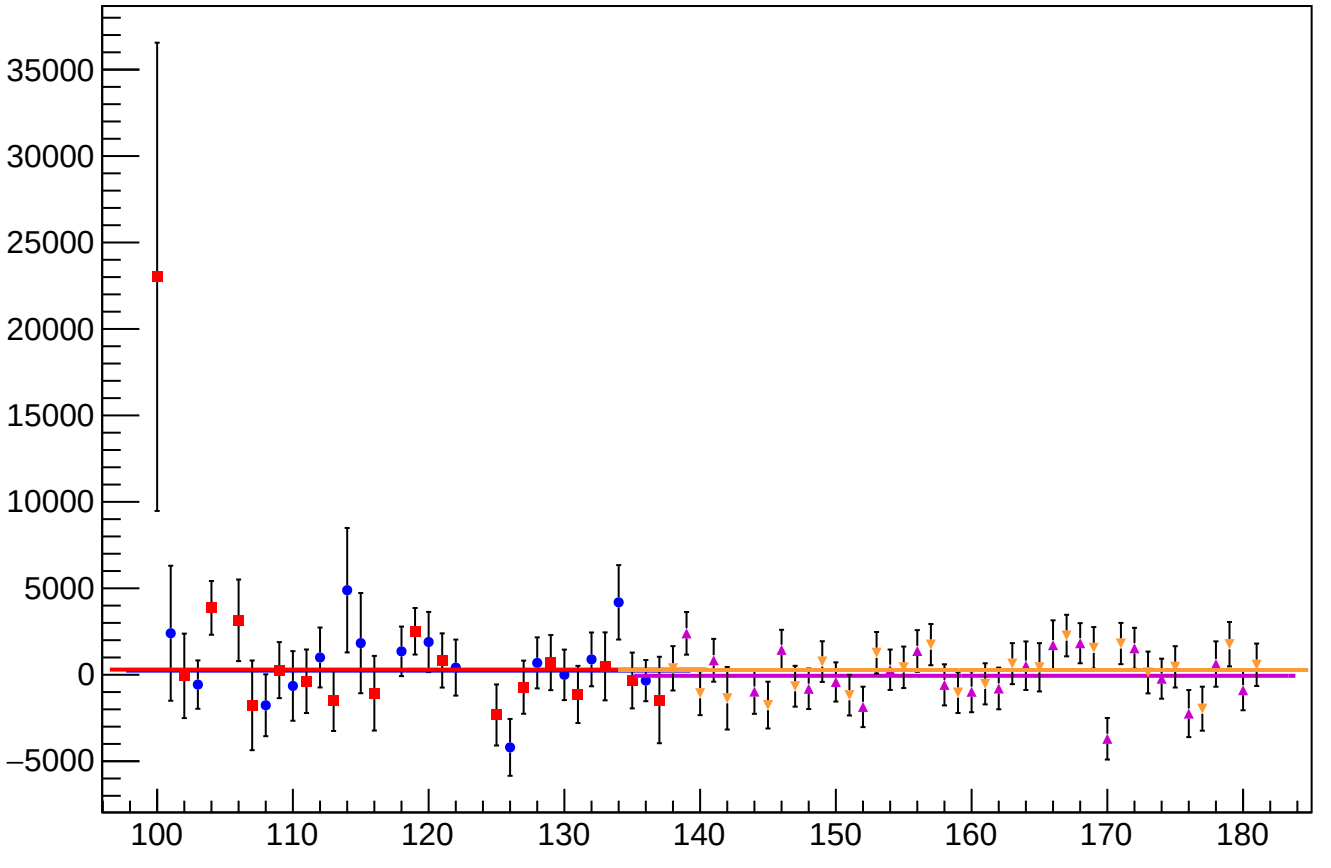
Left: 452.459+/-0.055 $\chi^2$/NDF: 1295273.9/42

Right: 398.136+/-0.080 $\chi^2$/NDF: 4137620.1/33

In: 440.569+/-0.065 $\chi^2$/NDF:2703033.1/36

Out: 429.893+/-0.063 $\chi^2$/NDF:3028446.1/39

All: 435.093+/-0.045 $\chi^2$/NDF: 5745343.4/76




Right In: 240.829+/-426.592 $\chi^2$/NDF: 17.0/15

Left Out: 275.295+/-264.046 $\chi^2$/NDF:20.6/21

Right Out: 298.922+/-430.767 $\chi^2$/NDF: 18.7/17

Left In: -59.566+/-265.610 $\chi^2$/NDF:30.9/20

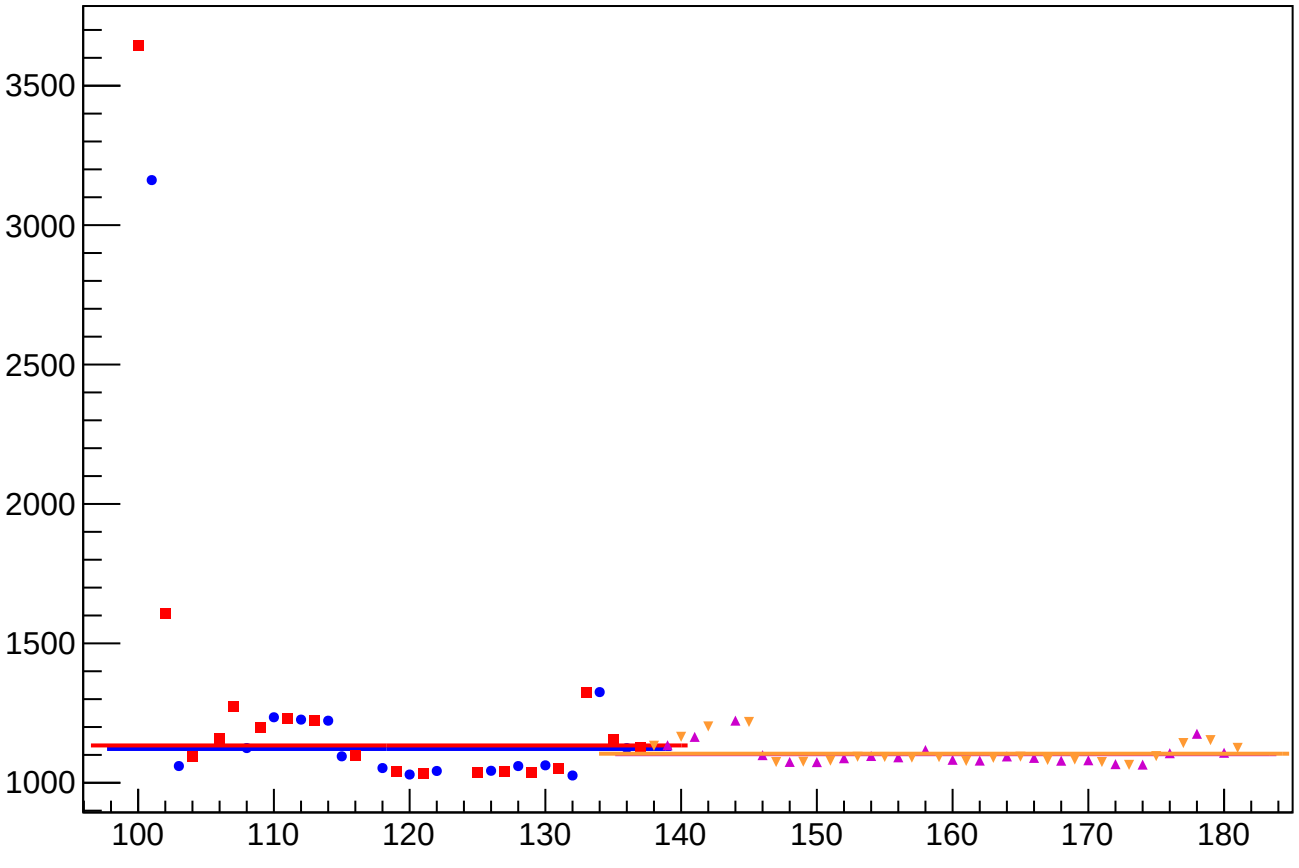
Left: 108.854+/-187.259 $\chi^2$/NDF: 52.3/42

Right: 269.593+/-303.111 $\chi^2$/NDF: 35.6/33

In: 24.355+/-225.477 $\chi^2$/NDF:48.2/36

Out: 281.747+/-225.119 $\chi^2$/NDF:39.3/39

All: 153.255+/-159.309 $\chi^2$/NDF: 88.2/76




Right In: 1121.294+/-0.302 $\chi^2$/NDF: 617028.4/15

Left Out: 1104.301+/-0.187 $\chi^2$/NDF:41308.4/21

Right Out: 1133.929+/-0.305 $\chi^2$/NDF: 227457.1/17

Left In: 1102.550+/-0.188 $\chi^2$/NDF:40238.0/20

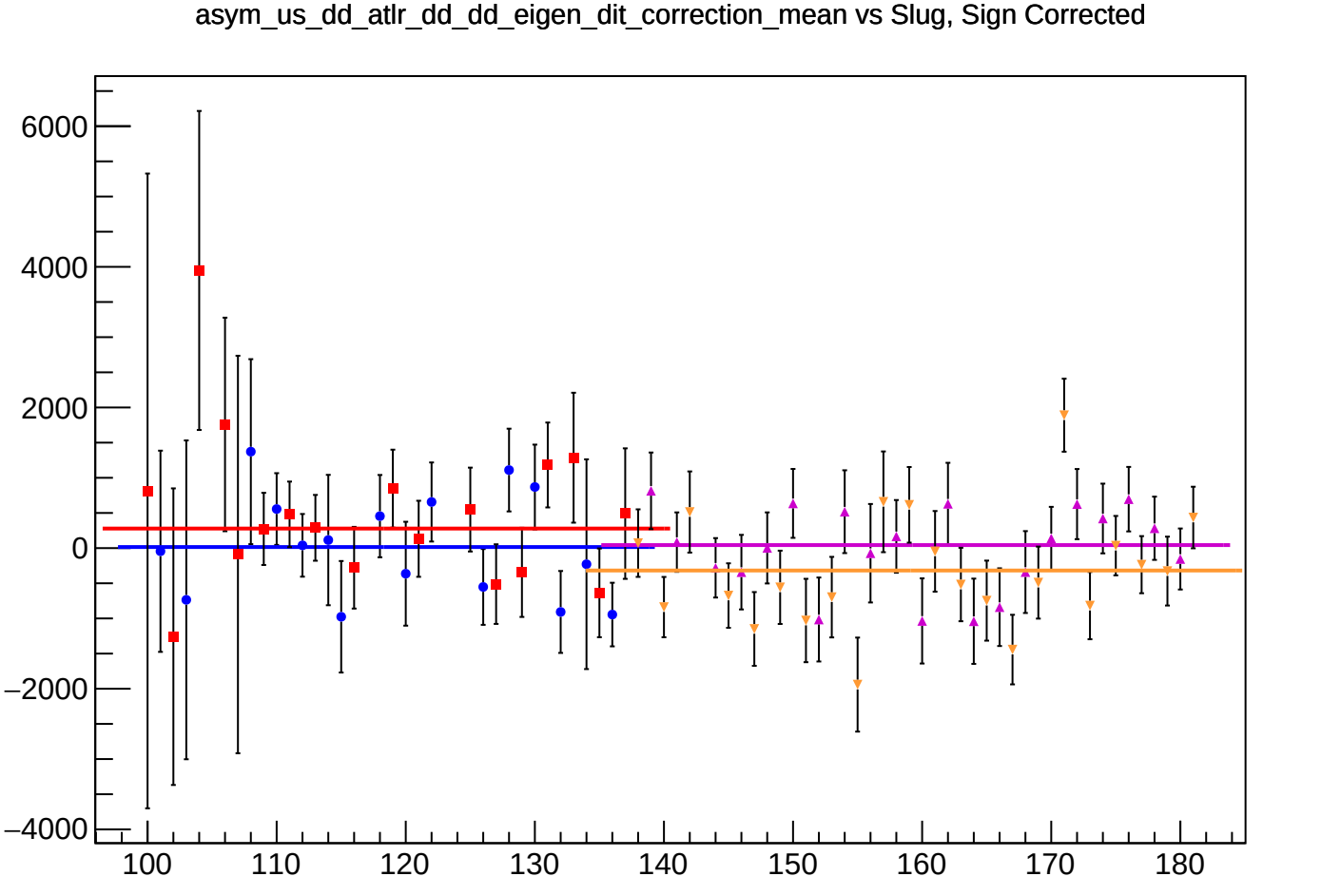
Left: 1103.431+/-0.132 $\chi^2$/NDF: 81590.1/42

Right: 1127.550+/-0.214 $\chi^2$/NDF: 845354.2/33

In: 1107.787+/-0.159 $\chi^2$/NDF:660048.8/36

Out: 1112.393+/-0.159 $\chi^2$/NDF:275643.1/39

All: 1110.093+/-0.113 $\chi^2$/NDF: 936109.8/76




Right In: 15.288+/-161.844 $\chi^2$/NDF: 19.6/15

Left Out: -318.330+/-108.323 $\chi^2$/NDF:49.3/21

Right Out: 278.249+/-158.826 $\chi^2$/NDF: 15.1/17

Left In: 43.083+/-111.539 $\chi^2$/NDF:23.4/20

Left: -142.909+/-77.708 $\chi^2$/NDF: 78.1/42

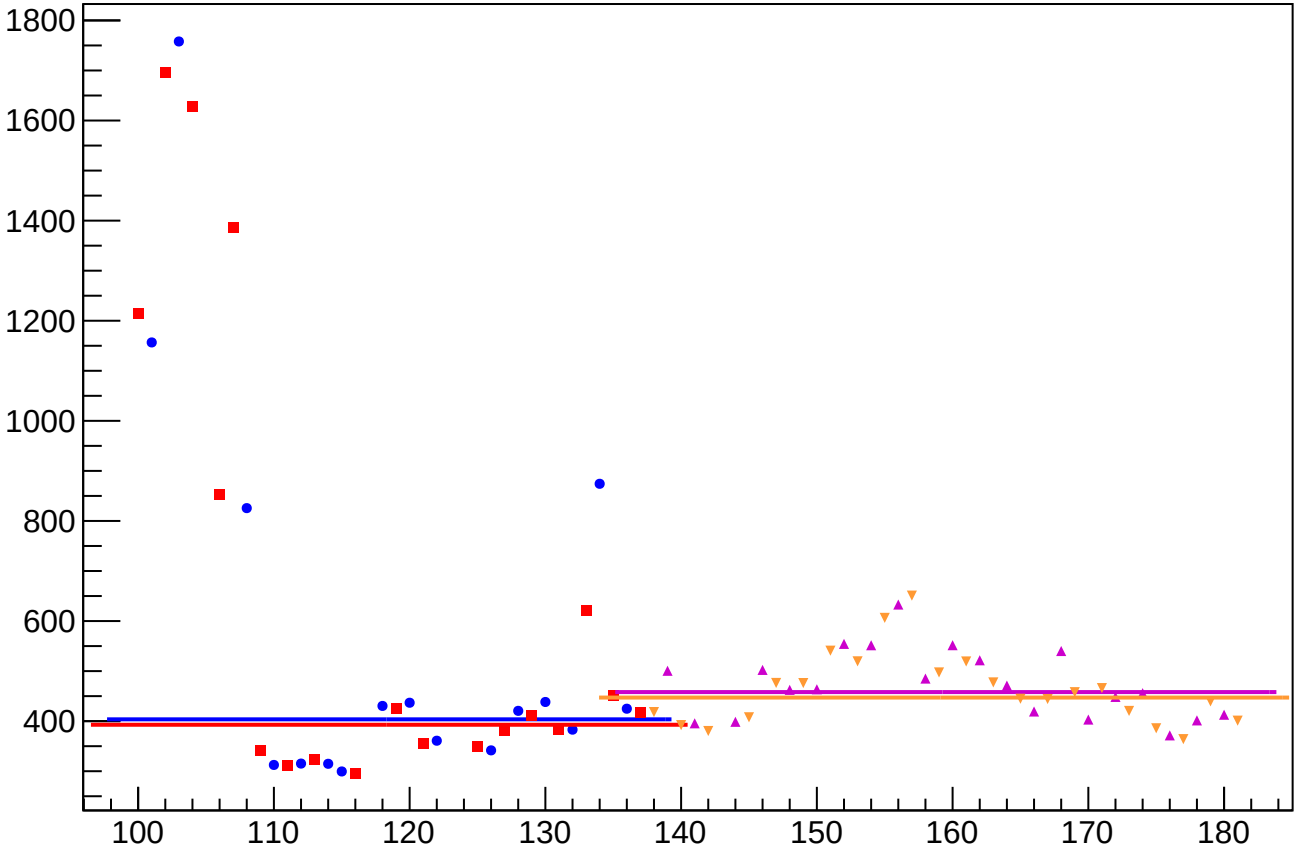
Right: 149.243+/-113.359 $\chi^2$/NDF: 36.0/33

In: 34.132+/-91.841 $\chi^2$/NDF:43.0/36

Out: -128.929+/-89.491 $\chi^2$/NDF:74.0/39

All: -49.511+/-64.094 $\chi^2$/NDF: 118.6/76

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 403.653+/-0.114 $\chi^2$/NDF: 1929594.3/15

Left Out: 447.137+/-0.077 $\chi^2$/NDF:665362.7/21

Right Out: 392.817+/-0.112 $\chi^2$/NDF: 2203462.7/17

Left In: 458.102+/-0.079 $\chi^2$/NDF:619994.2/20

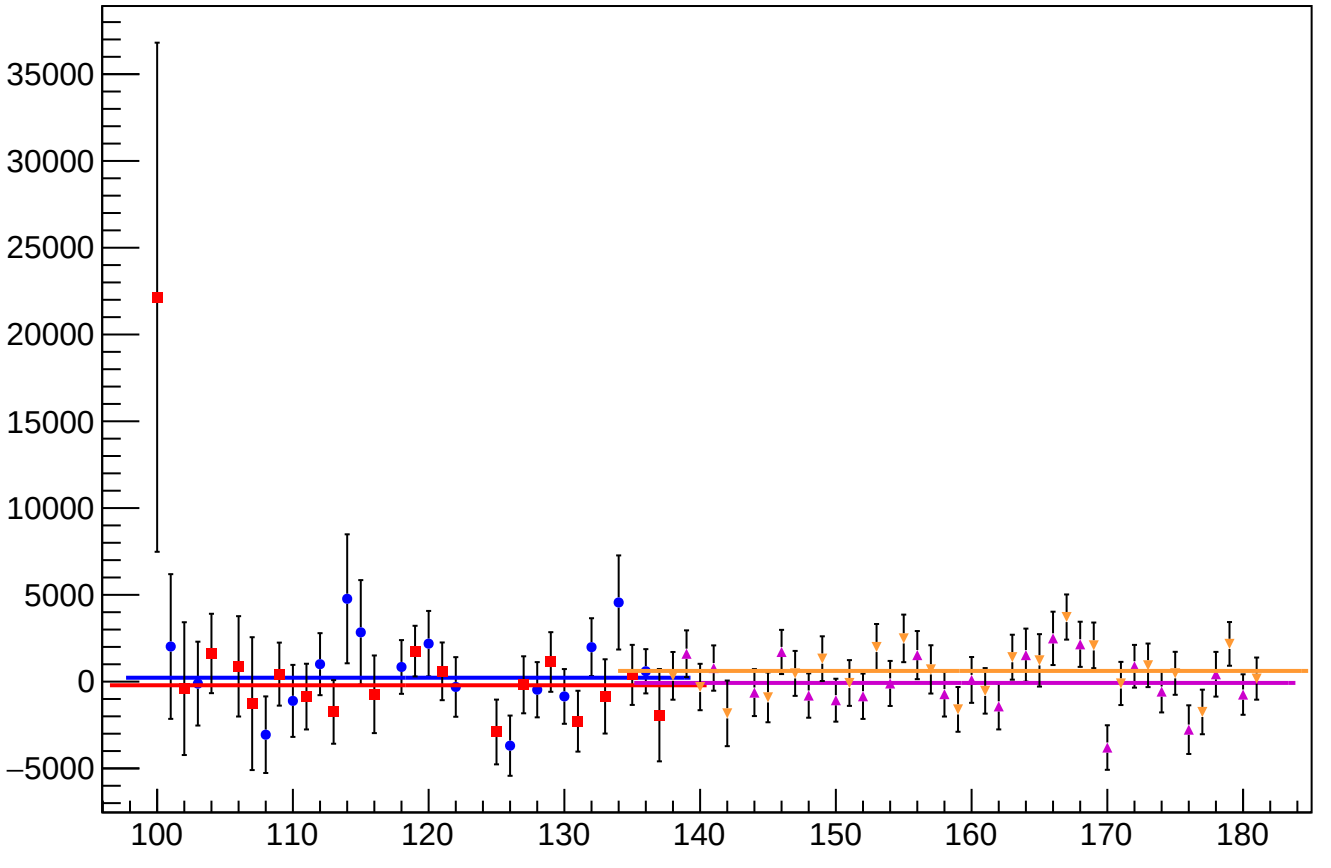
Left: 452.459+/-0.055 $\chi^2$/NDF: 1295303.7/42

Right: 398.133+/-0.080 $\chi^2$/NDF: 4137623.7/33

In: 440.568+/-0.065 $\chi^2$/NDF:2703061.9/36

Out: 429.891+/-0.063 $\chi^2$/NDF:3028491.1/39

All: 435.091+/-0.045 $\chi^2$/NDF: 5745417.8/76




Right In: 224.817+/-474.559 $\chi^2$/NDF: 16.1/15

Left Out: 616.645+/-283.009 $\chi^2$/NDF:23.6/21

Right Out: -209.751+/-477.820 $\chi^2$/NDF: 11.0/17

Left In: -74.702+/-285.642 $\chi^2$/NDF:28.3/20

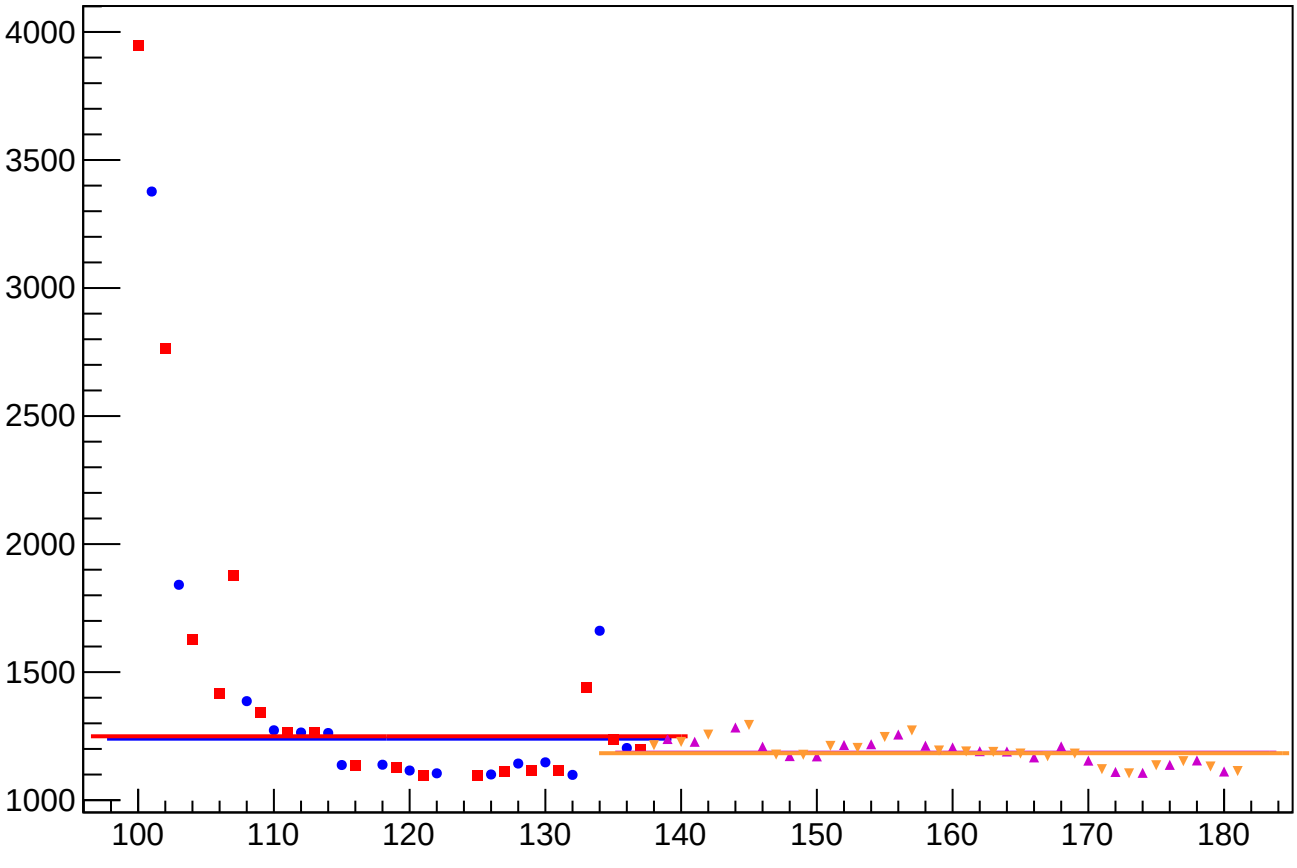
Left: 274.173+/-201.042 $\chi^2$/NDF: 54.8/42

Right: 9.021+/-336.711 $\chi^2$/NDF: 27.5/33

In: 4.954+/-244.730 $\chi^2$/NDF:44.7/36

Out: 402.027+/-243.502 $\chi^2$/NDF:36.7/39

All: 204.489+/-172.614 $\chi^2$/NDF: 82.7/76




Right In: 1240.140+/-0.336 $\chi^2$/NDF: 782679.7/15

Left Out: 1183.353+/-0.200 $\chi^2$/NDF:59263.2/21

Right Out: 1249.410+/-0.338 $\chi^2$/NDF: 606099.2/17

Left In: 1185.476+/-0.202 $\chi^2$/NDF:55585.4/20

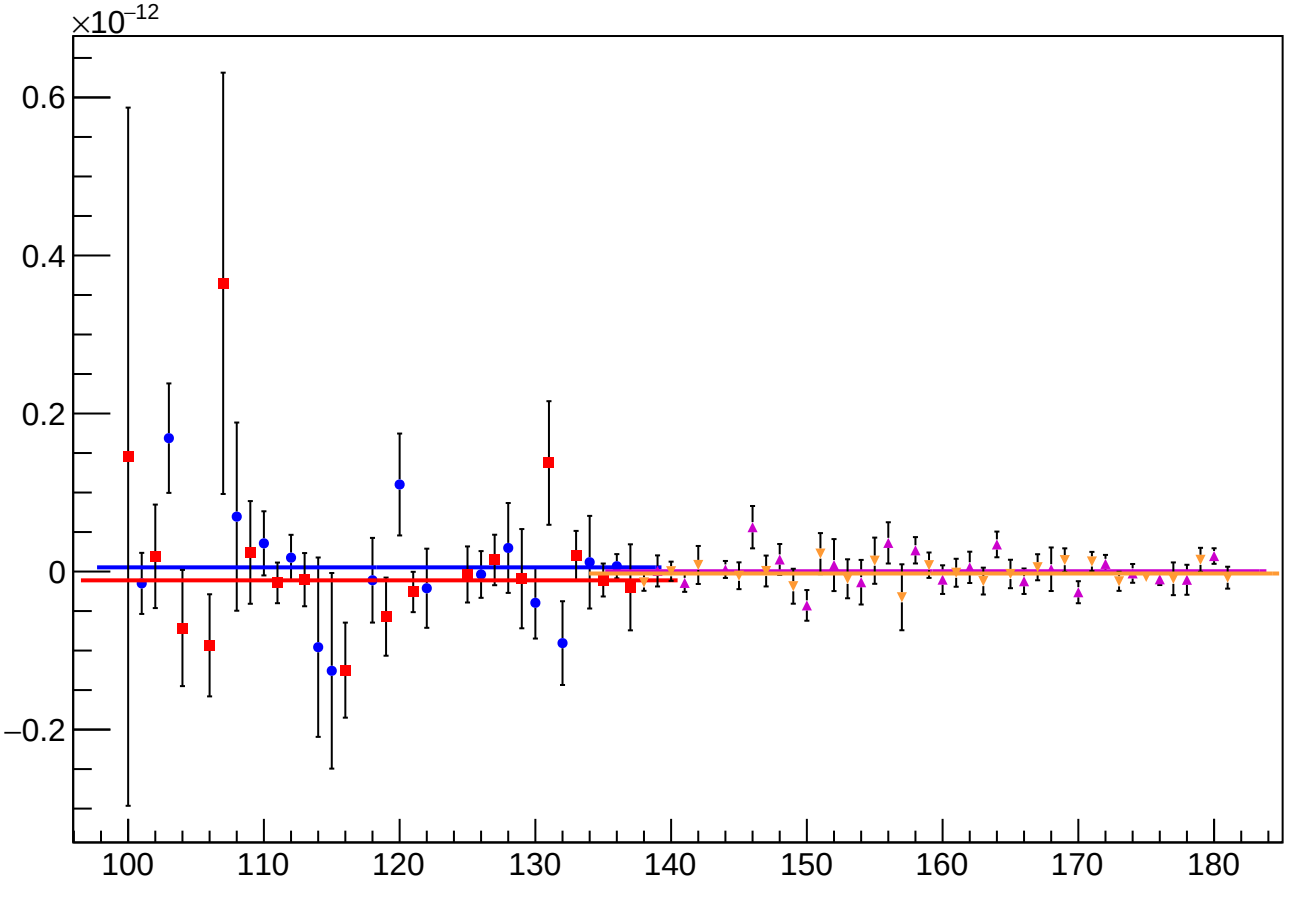
Left: 1184.404+/-0.142 $\chi^2$/NDF: 114904.3/42

Right: 1244.743+/-0.238 $\chi^2$/NDF: 1389157.9/33

In: 1200.013+/-0.173 $\chi^2$/NDF:857744.9/36

Out: 1200.508+/-0.172 $\chi^2$/NDF:693660.2/39

All: 1200.262+/-0.122 $\chi^2$/NDF: 1551409.2/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.3/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:32.2/20

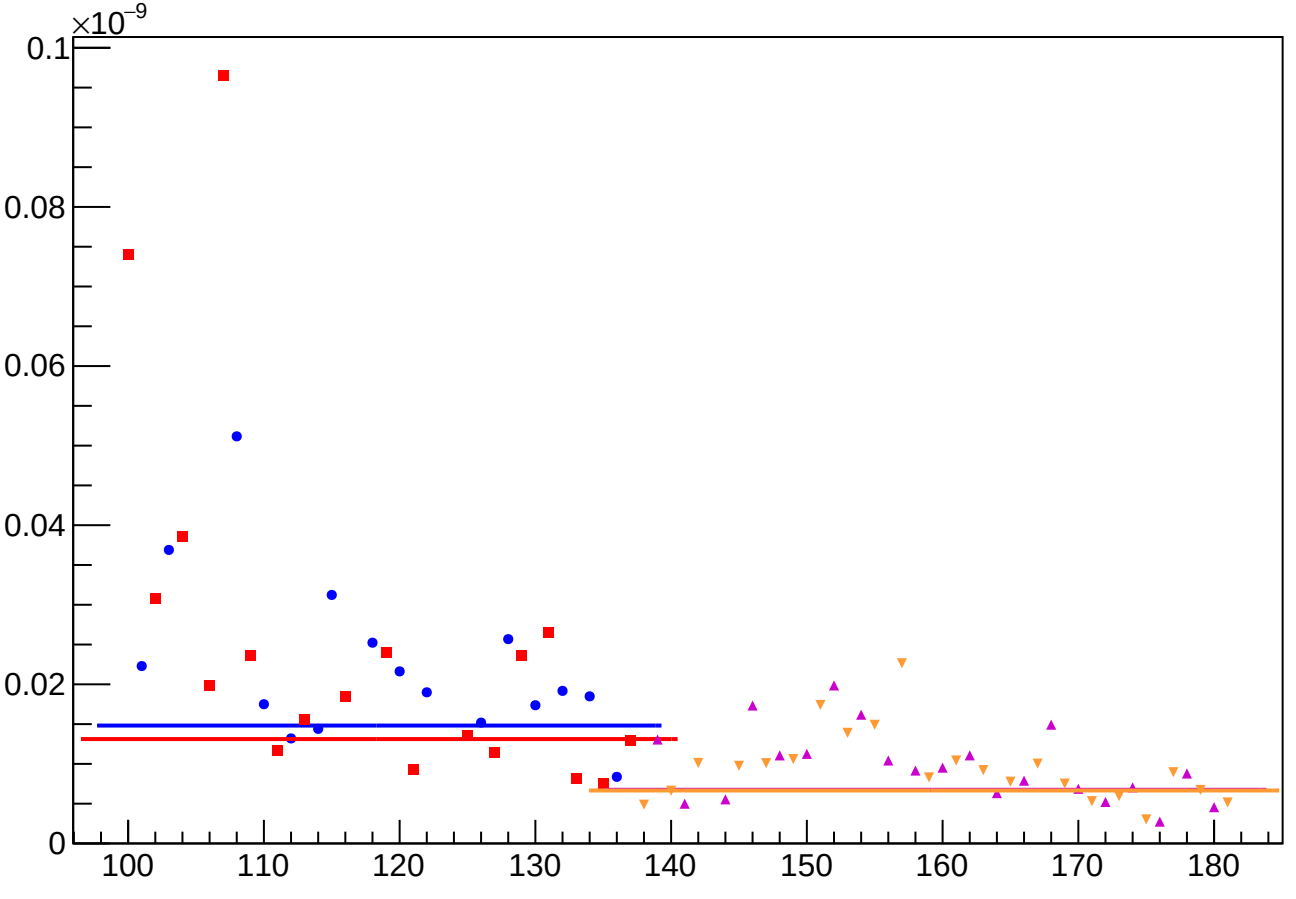
Left: -0.000+/-0.000 $\chi^2$/NDF: 42.9/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:48.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:26.2/39

All: -0.000+/-0.000 $\chi^2$/NDF: 75.9/76




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1081472.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2284331.7/21

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1181949.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2517280.0/20

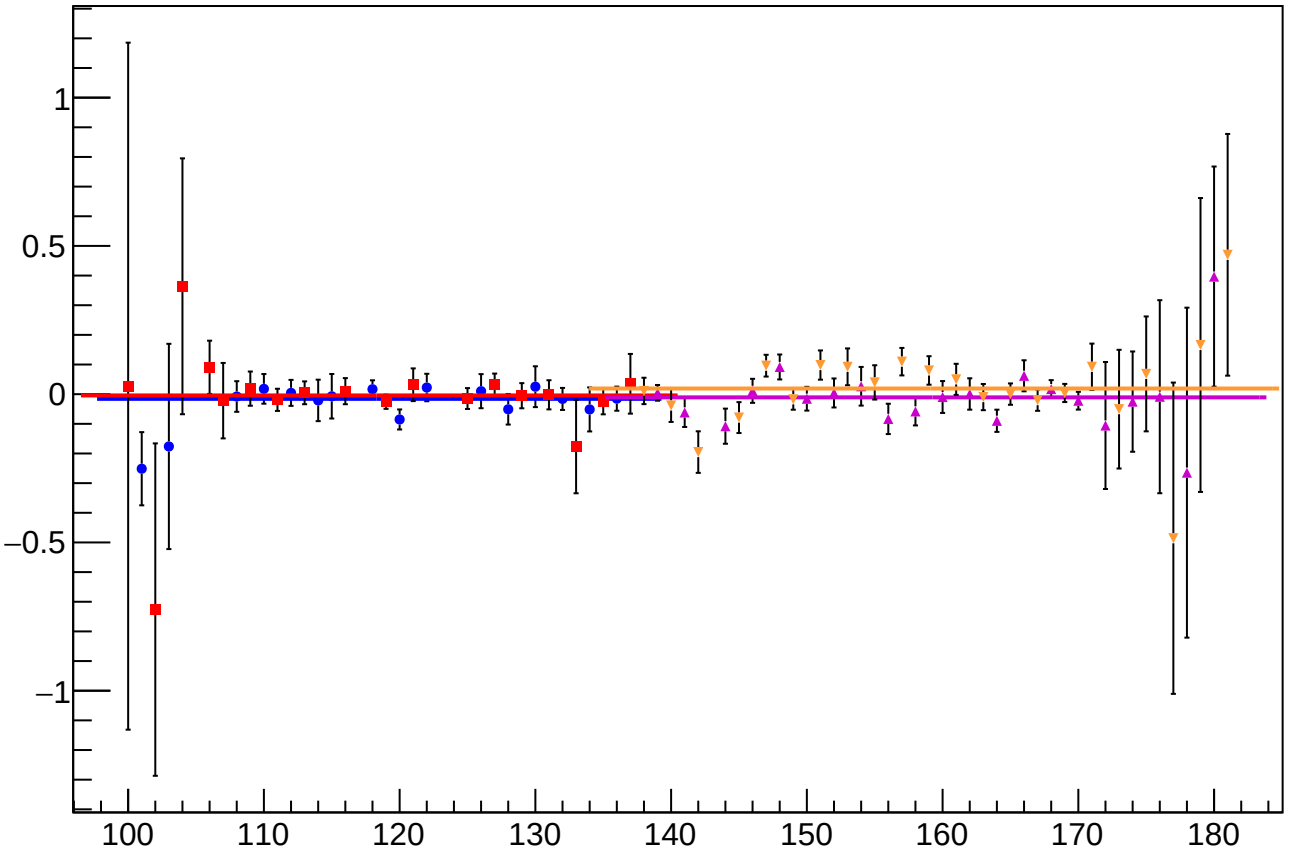
Left: 0.000+/-0.000 $\chi^2$/NDF: 4802334.6/42

Right: 0.000+/-0.000 $\chi^2$/NDF: 2295265.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:4862231.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4323039.7/39

All: 0.000+/-0.000 $\chi^2$/NDF: 9191351.5/76




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: 0.019+/-0.011 $\chi^2$/NDF:34.8/21

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.011+/-0.010 $\chi^2$/NDF:22.8/20

Left: 0.003+/-0.007 $\chi^2$/NDF: 61.6/42

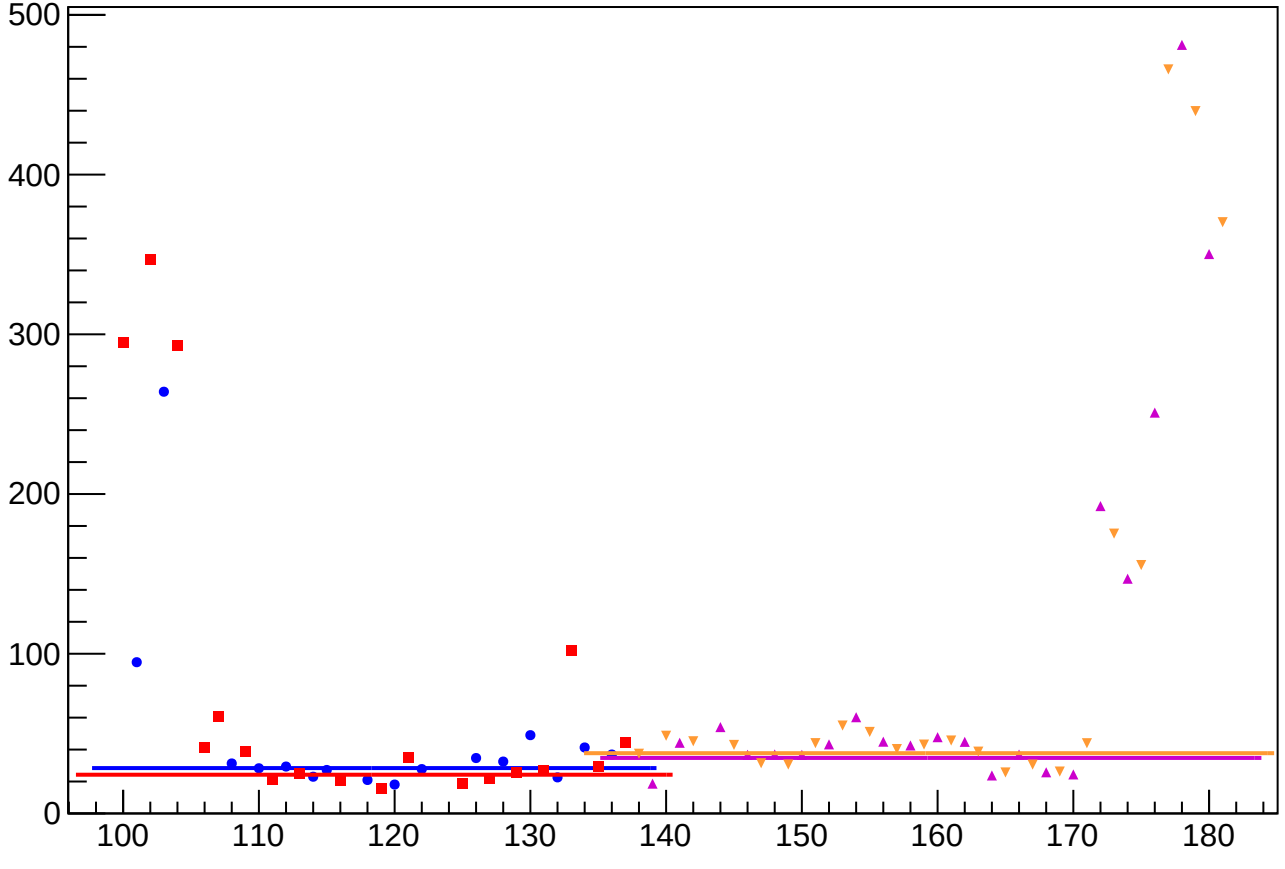
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.013+/-0.008 $\chi^2$/NDF:34.8/36

Out: 0.008+/-0.008 $\chi^2$/NDF:44.8/39

All: -0.002+/-0.006 $\chi^2$/NDF: 83.1/76

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245642.8/15

Left Out: 37.737+/-0.008 $\chi^2$/NDF:6891538.5/21

Right Out: 24.255+/-0.008 $\chi^2$/NDF: 2913469.3/17

Left In: 34.763+/-0.007 $\chi^2$/NDF:7901262.8/20

Left: 36.173+/-0.005 $\chi^2$/NDF: 14872237.0/42

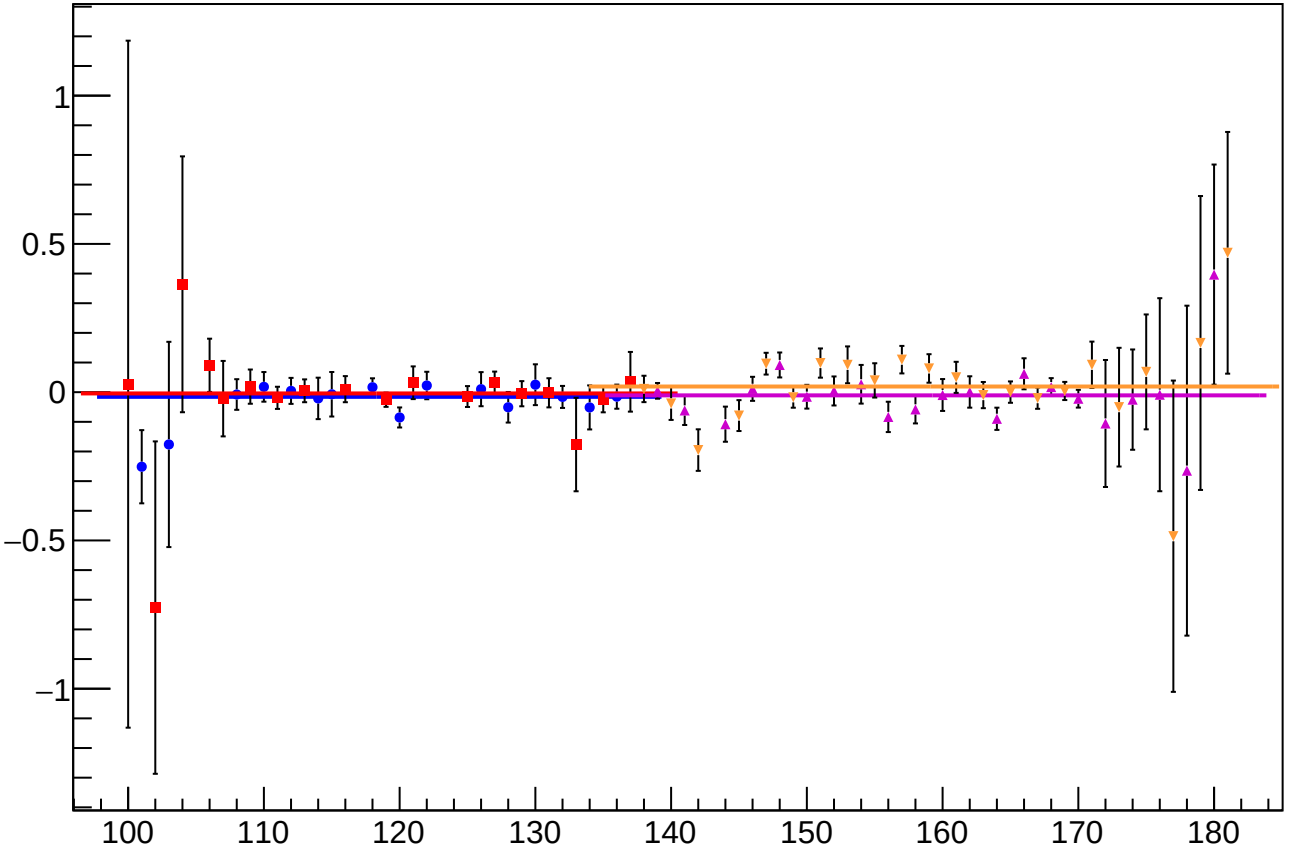
Right: 26.181+/-0.006 $\chi^2$/NDF: 5281459.7/33

In: 32.154+/-0.006 $\chi^2$/NDF:10460854.0/36

Out: 31.369+/-0.006 $\chi^2$/NDF:11271105.8/39

All: 31.760+/-0.004 $\chi^2$/NDF: 21741905.1/76

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: 0.019+/-0.011 $\chi^2$/NDF:34.8/21

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.011+/-0.010 $\chi^2$/NDF:22.8/20

Left: 0.003+/-0.007 $\chi^2$/NDF: 61.6/42

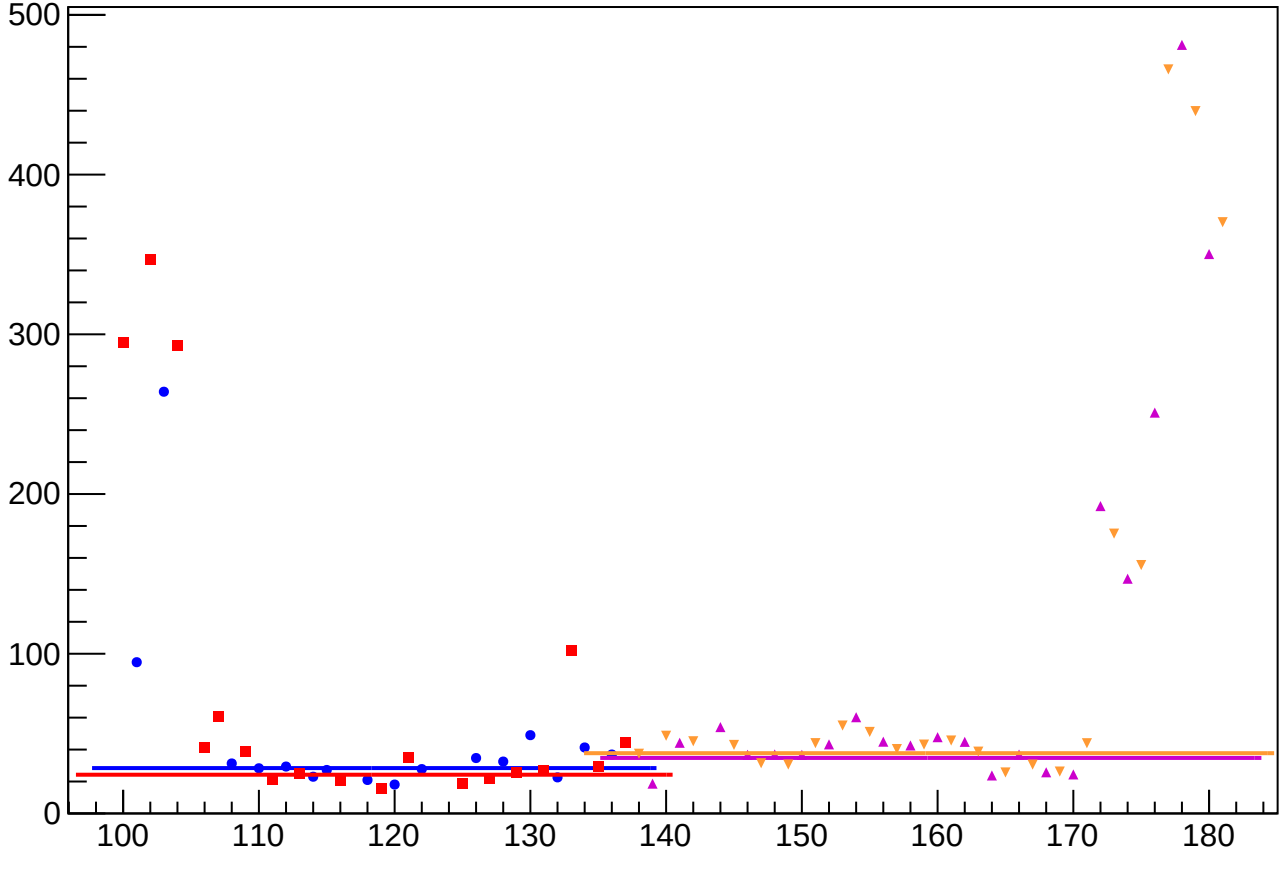
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.013+/-0.008 $\chi^2$/NDF:34.8/36

Out: 0.008+/-0.008 $\chi^2$/NDF:44.8/39

All: -0.002+/-0.006 $\chi^2$/NDF: 83.1/76

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245642.8/15

Left Out: 37.737+/-0.008 $\chi^2$/NDF:6891538.5/21

Right Out: 24.255+/-0.008 $\chi^2$/NDF: 2913469.3/17

Left In: 34.763+/-0.007 $\chi^2$/NDF:7901262.8/20

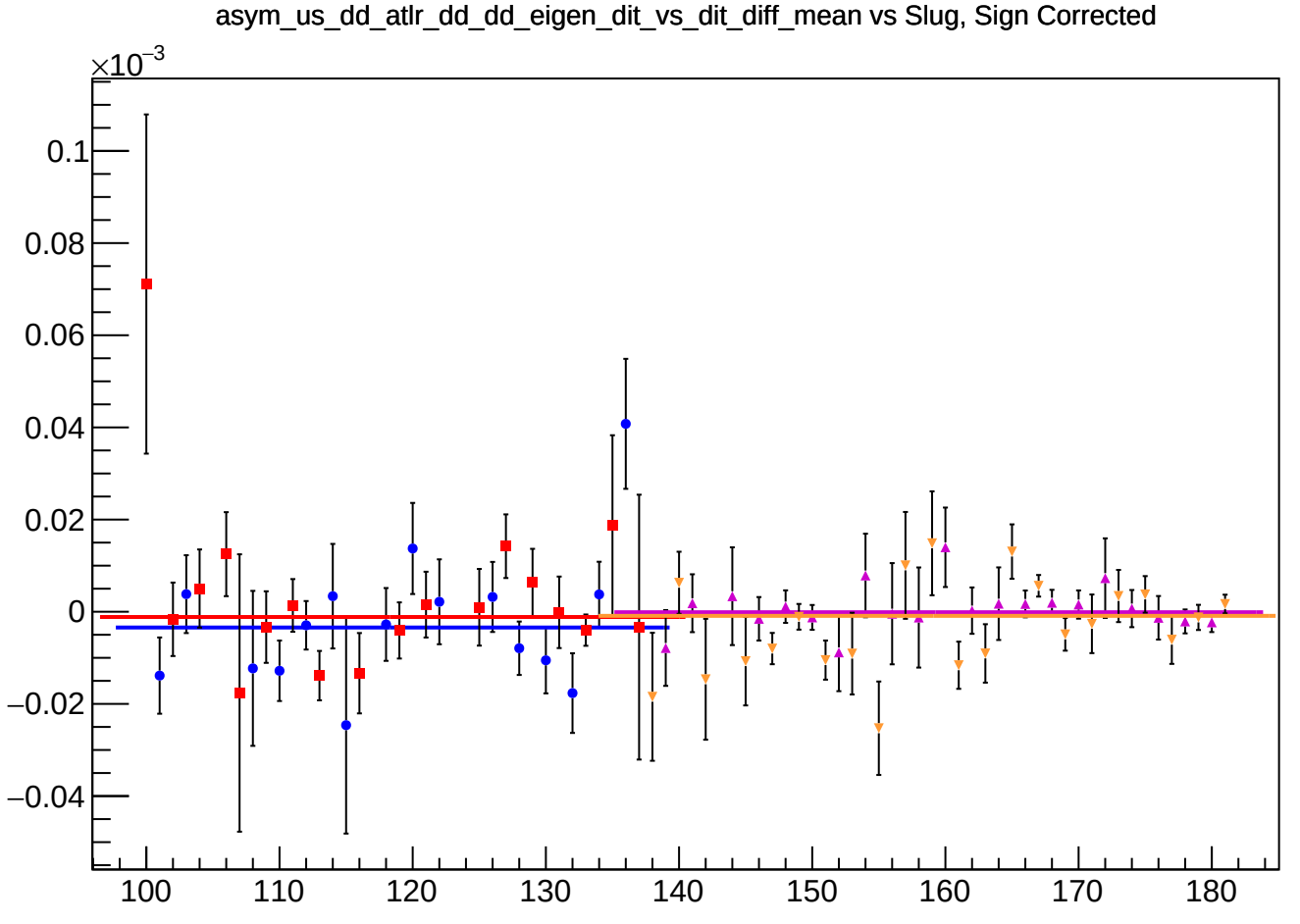
Left: 36.173+/-0.005 $\chi^2$/NDF: 14872237.0/42

Right: 26.181+/-0.006 $\chi^2$/NDF: 5281459.7/33

In: 32.154+/-0.006 $\chi^2$/NDF:10460854.0/36

Out: 31.369+/-0.006 $\chi^2$/NDF:11271105.8/39

All: 31.760+/-0.004 $\chi^2$/NDF: 21741905.1/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:49.1/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:9.8/20

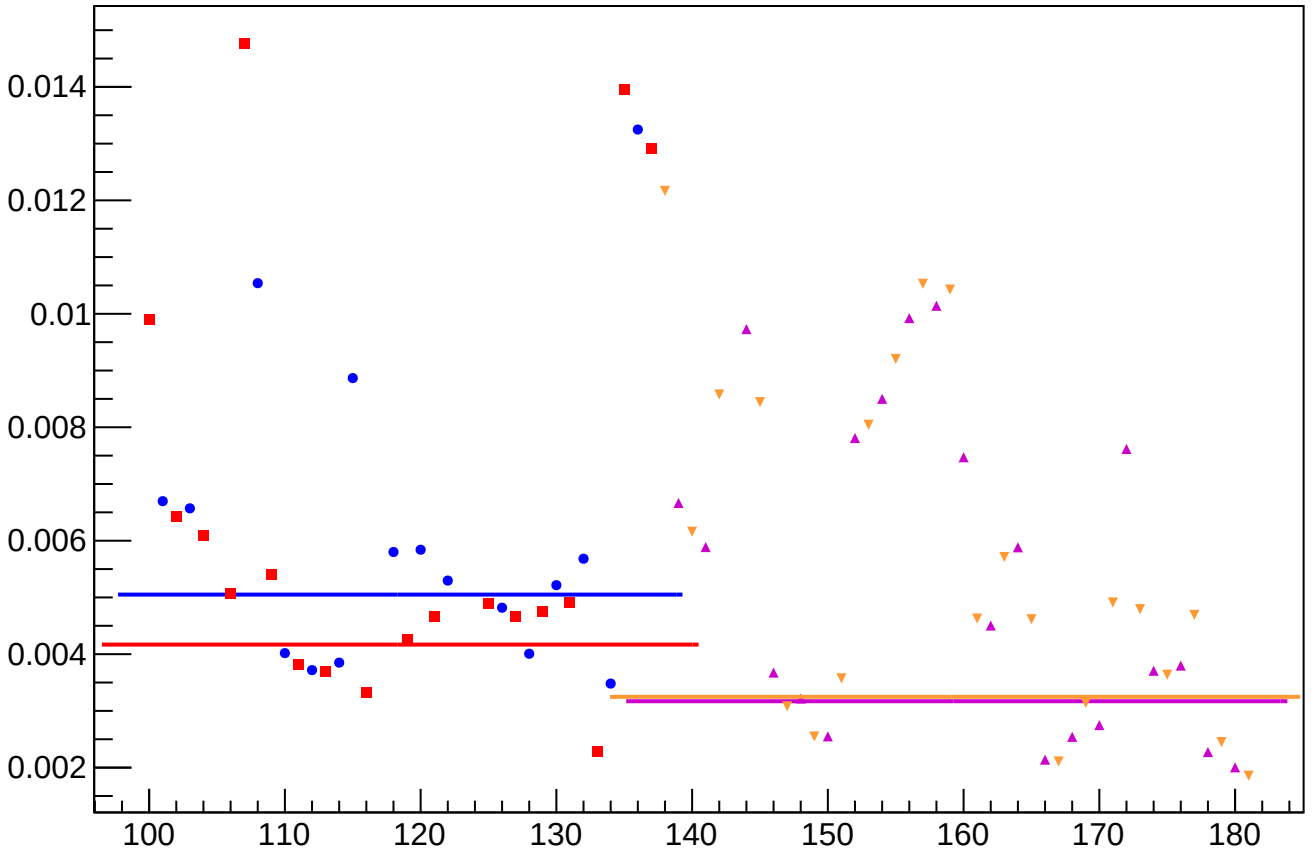
Left: -0.000+/-0.000 $\chi^2$/NDF: 59.3/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 48.9/33

In: -0.000+/-0.000 $\chi^2$/NDF:37.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:72.1/39

All: -0.000+/-0.000 $\chi^2$/NDF: 109.4/76




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1494215.1/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:7728143.3/21

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 2041975.6/17

Left In: 0.003+/-0.000 $\chi^2$/NDF:7222873.4/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 14958565.7/42

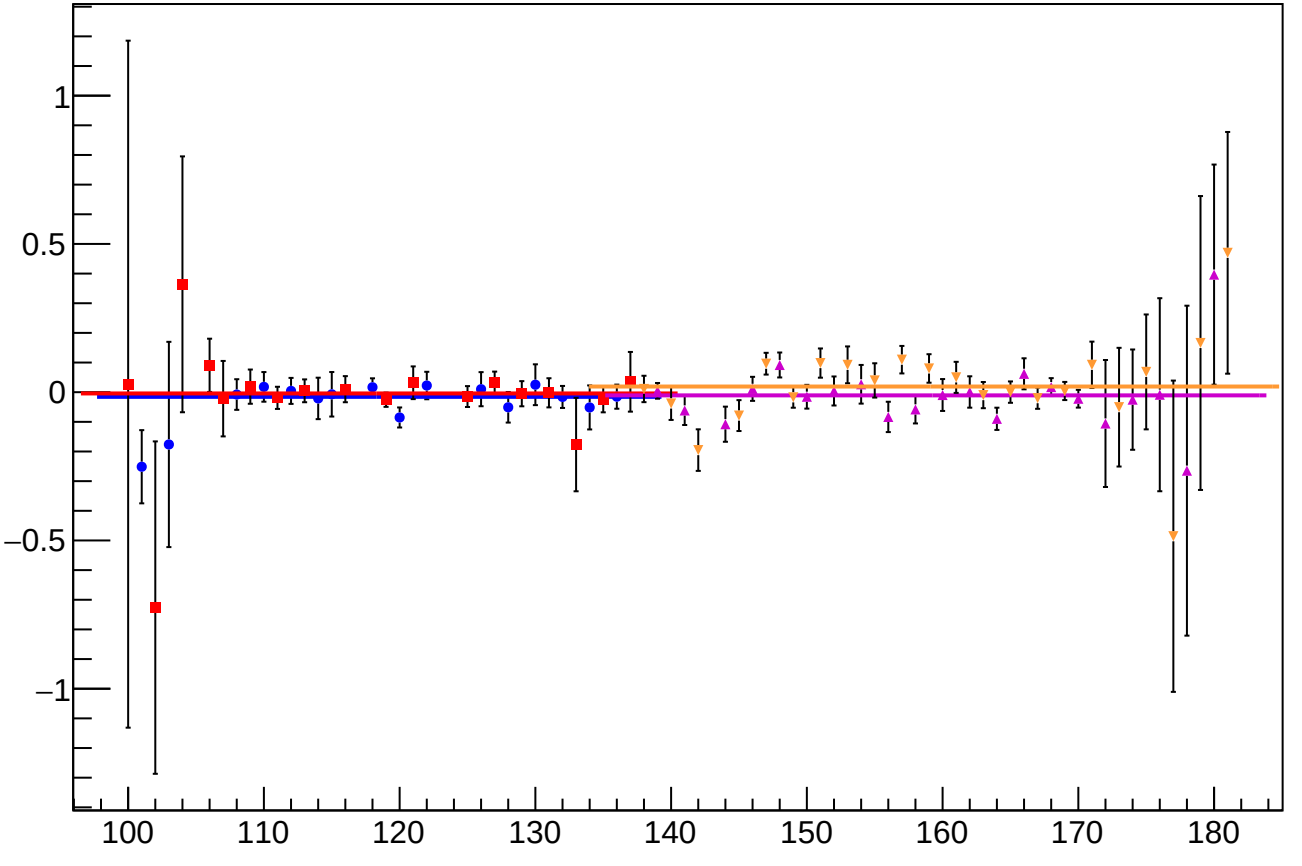
Right: 0.005+/-0.000 $\chi^2$/NDF: 3758667.6/33

In: 0.003+/-0.000 $\chi^2$/NDF:10163176.3/36

Out: 0.003+/-0.000 $\chi^2$/NDF:10229176.1/39

All: 0.003+/-0.000 $\chi^2$/NDF: 20393259.2/76

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: 0.019+/-0.011 $\chi^2$/NDF:34.8/21

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.011+/-0.010 $\chi^2$/NDF:22.8/20

Left: 0.003+/-0.007 $\chi^2$/NDF: 61.6/42

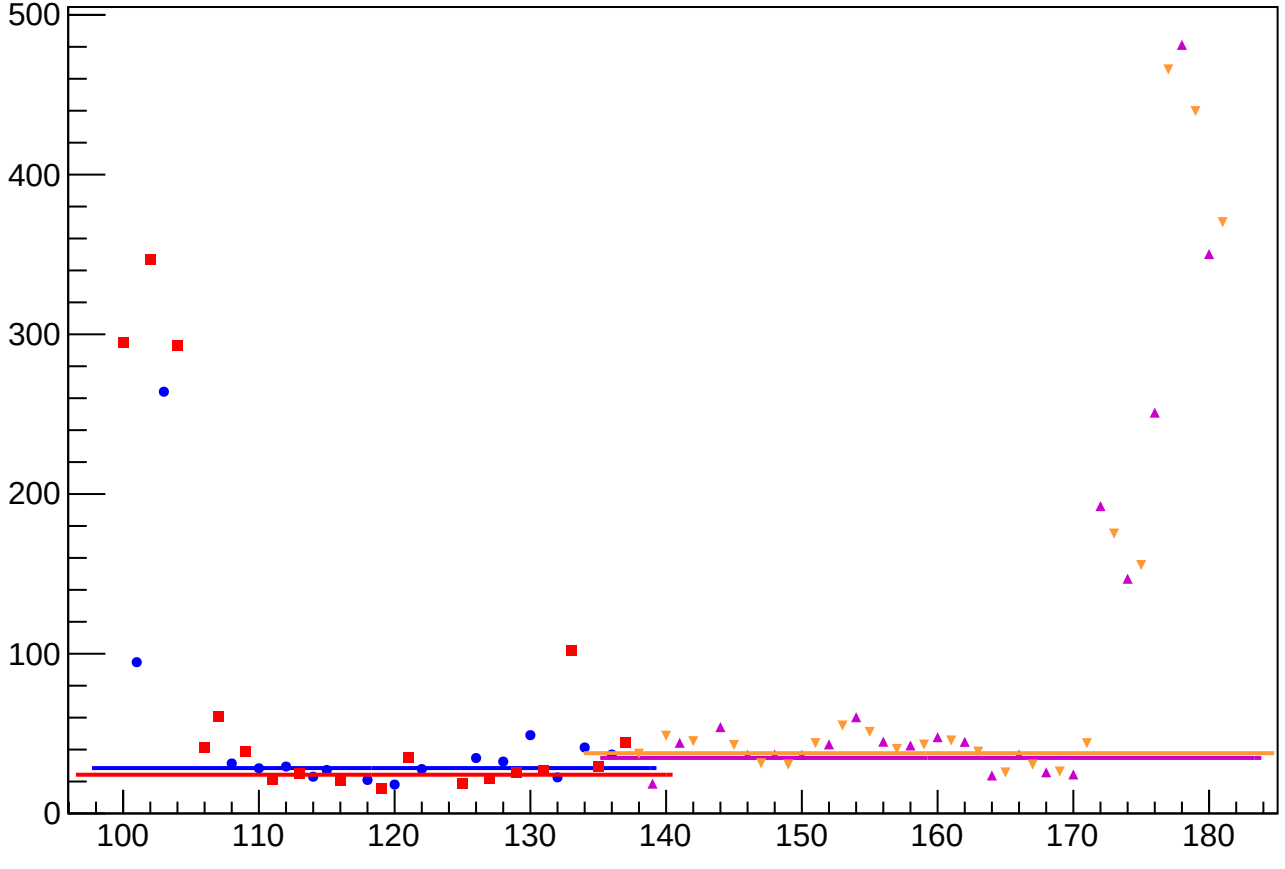
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.013+/-0.008 $\chi^2$/NDF:34.8/36

Out: 0.008+/-0.008 $\chi^2$/NDF:44.8/39

All: -0.002+/-0.006 $\chi^2$/NDF: 83.1/76

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245663.3/15

Left Out: 37.737+/-0.008 $\chi^2$/NDF:6891700.4/21

Right Out: 24.254+/-0.008 $\chi^2$/NDF: 2913710.0/17

Left In: 34.763+/-0.007 $\chi^2$/NDF:7901685.0/20

Left: 36.173+/-0.005 $\chi^2$/NDF: 14872819.9/42

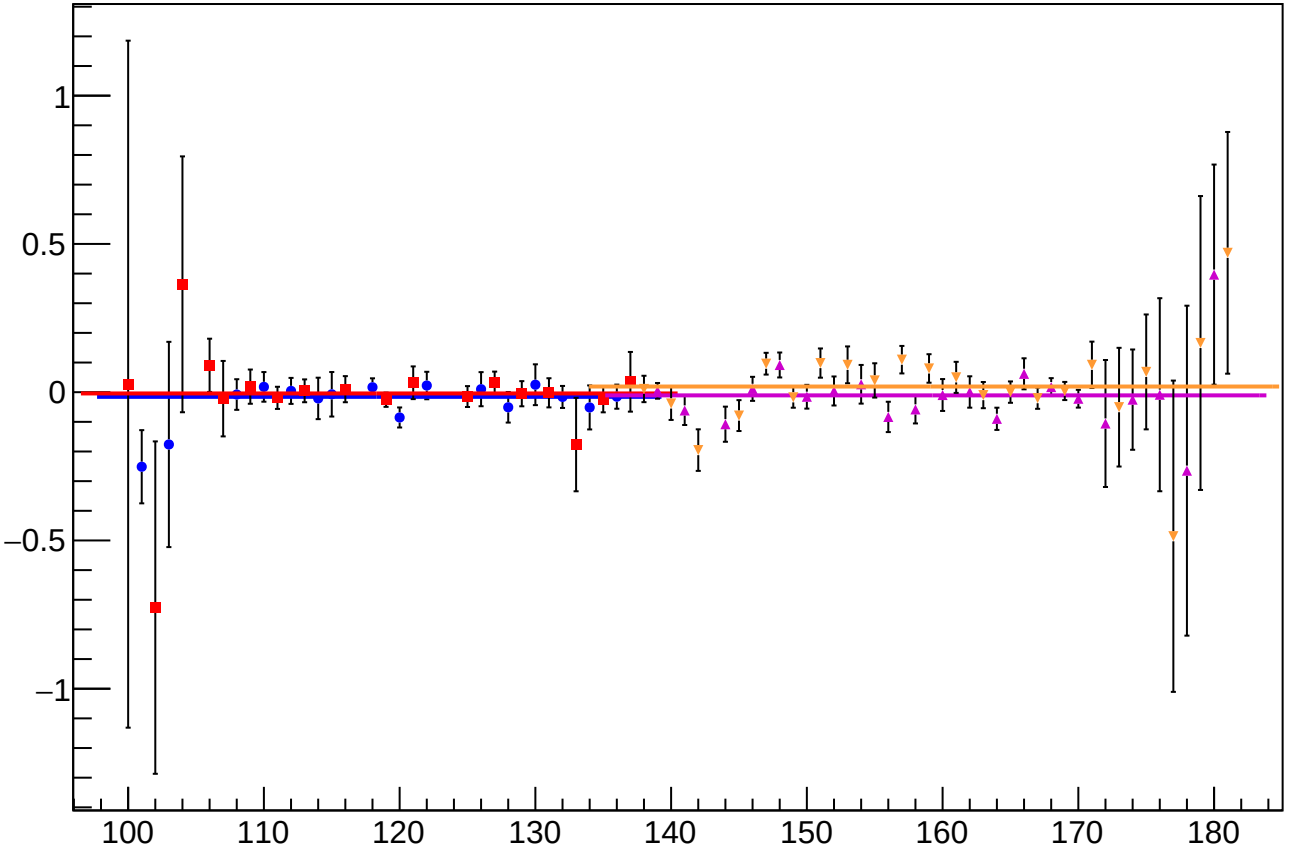
Right: 26.180+/-0.006 $\chi^2$/NDF: 5281817.4/33

In: 32.154+/-0.006 $\chi^2$/NDF:10461269.3/36

Out: 31.368+/-0.006 $\chi^2$/NDF:11271847.5/39

All: 31.759+/-0.004 $\chi^2$/NDF: 21743088.1/76

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: 0.019+/-0.011 $\chi^2$/NDF:34.8/21

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.011+/-0.010 $\chi^2$/NDF:22.8/20

Left: 0.003+/-0.007 $\chi^2$/NDF: 61.6/42

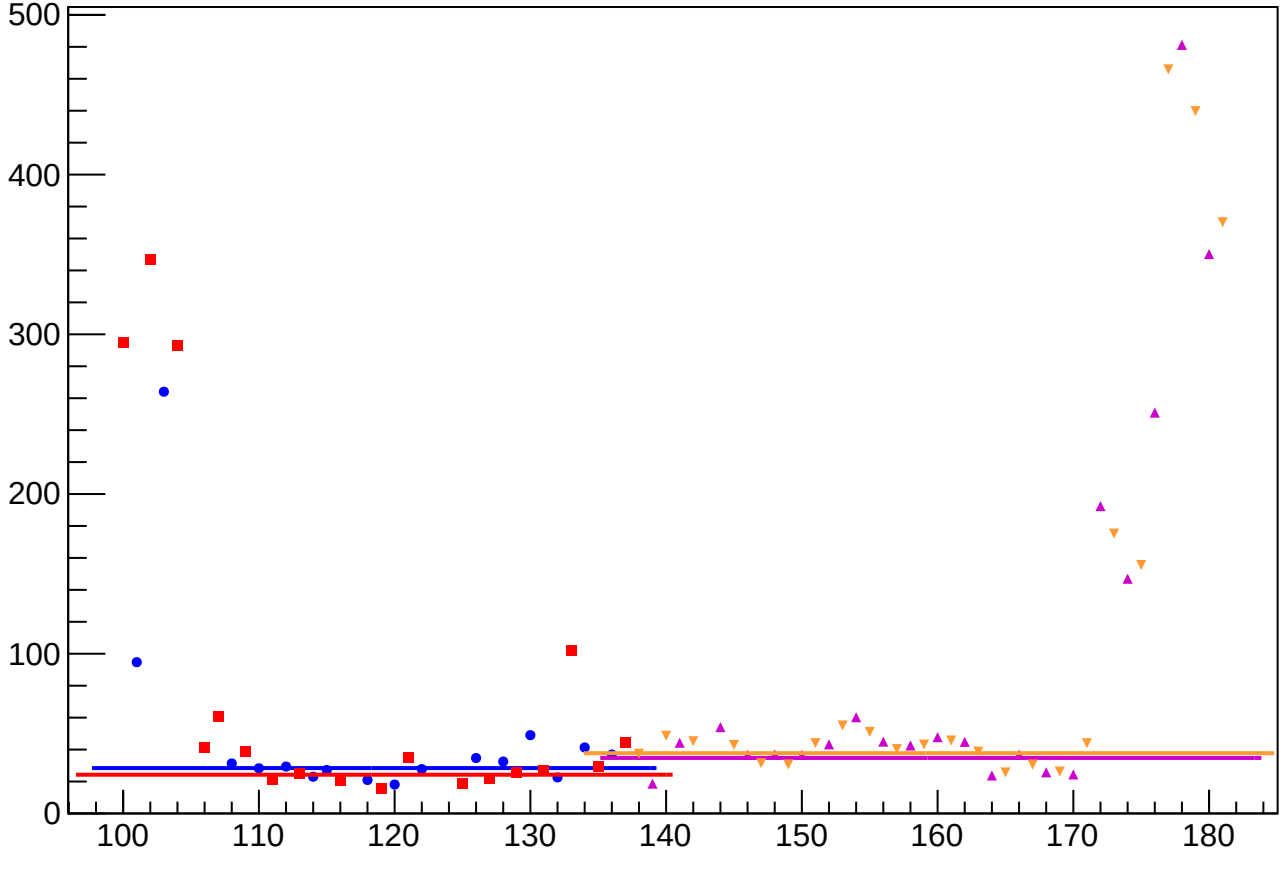
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.013+/-0.008 $\chi^2$/NDF:34.8/36

Out: 0.008+/-0.008 $\chi^2$/NDF:44.8/39

All: -0.002+/-0.006 $\chi^2$/NDF: 83.1/76

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245663.3/15

Left Out: 37.737+/-0.008 $\chi^2$/NDF:6891700.4/21

Right Out: 24.254+/-0.008 $\chi^2$/NDF: 2913710.0/17

Left In: 34.763+/-0.007 $\chi^2$/NDF:7901685.0/20

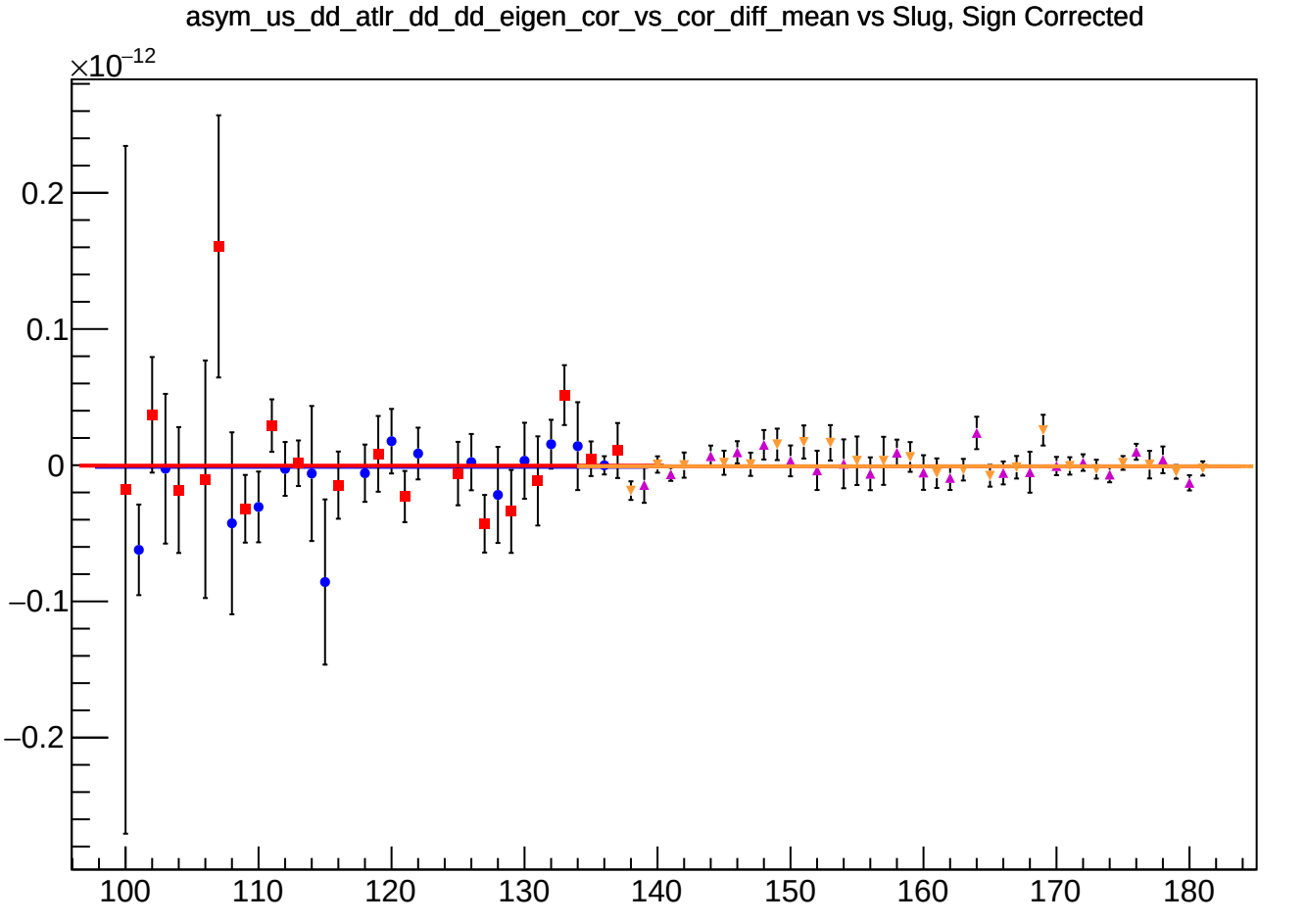
Left: 36.173+/-0.005 $\chi^2$/NDF: 14872819.9/42

Right: 26.180+/-0.006 $\chi^2$/NDF: 5281817.4/33

In: 32.154+/-0.006 $\chi^2$/NDF:10461269.3/36

Out: 31.368+/-0.006 $\chi^2$/NDF:11271847.5/39

All: 31.759+/-0.004 $\chi^2$/NDF: 21743088.1/76




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.0/21

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.1/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:24.0/20

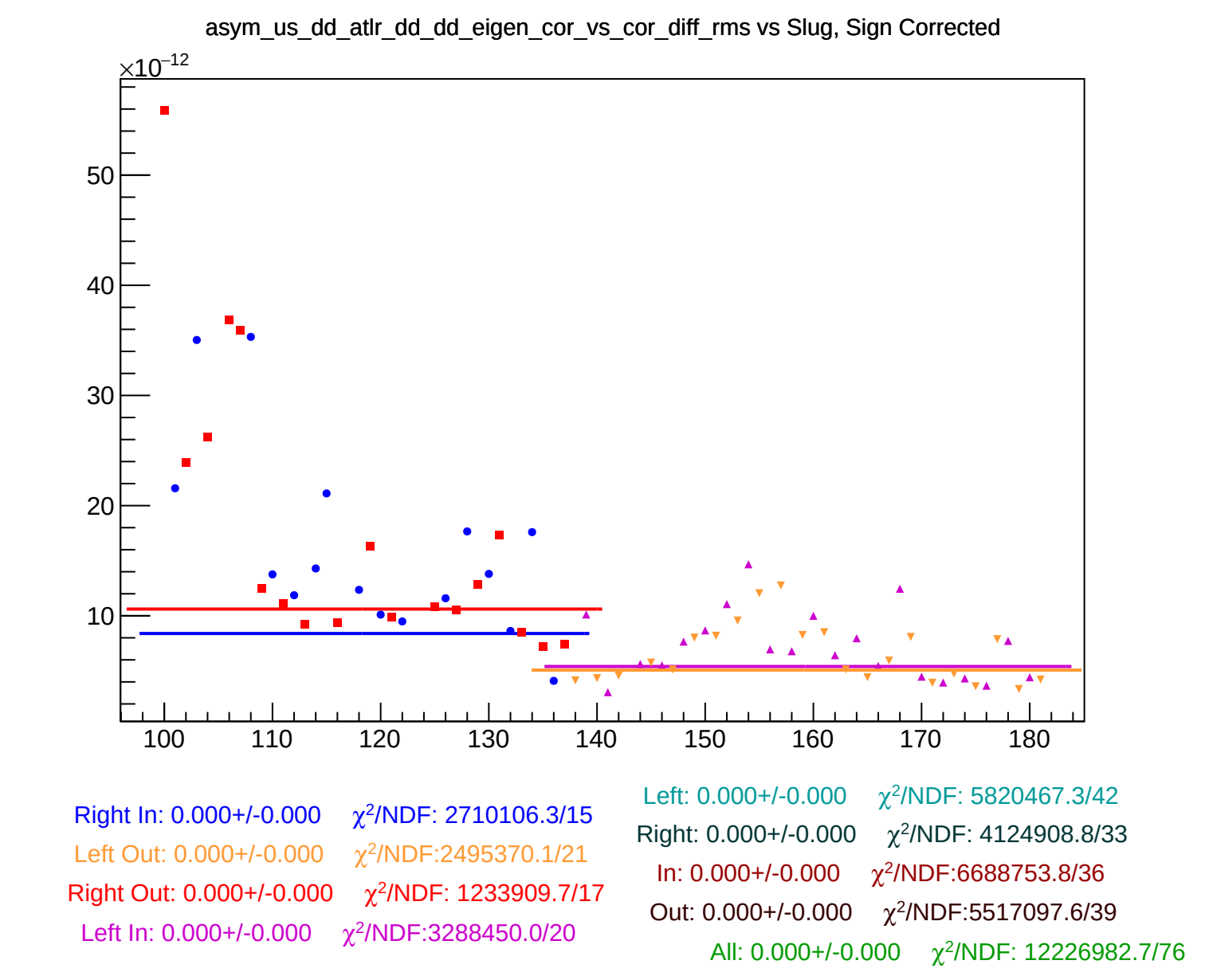
Left: -0.000+/-0.000 $\chi^2$/NDF: 45.0/42

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.5/33

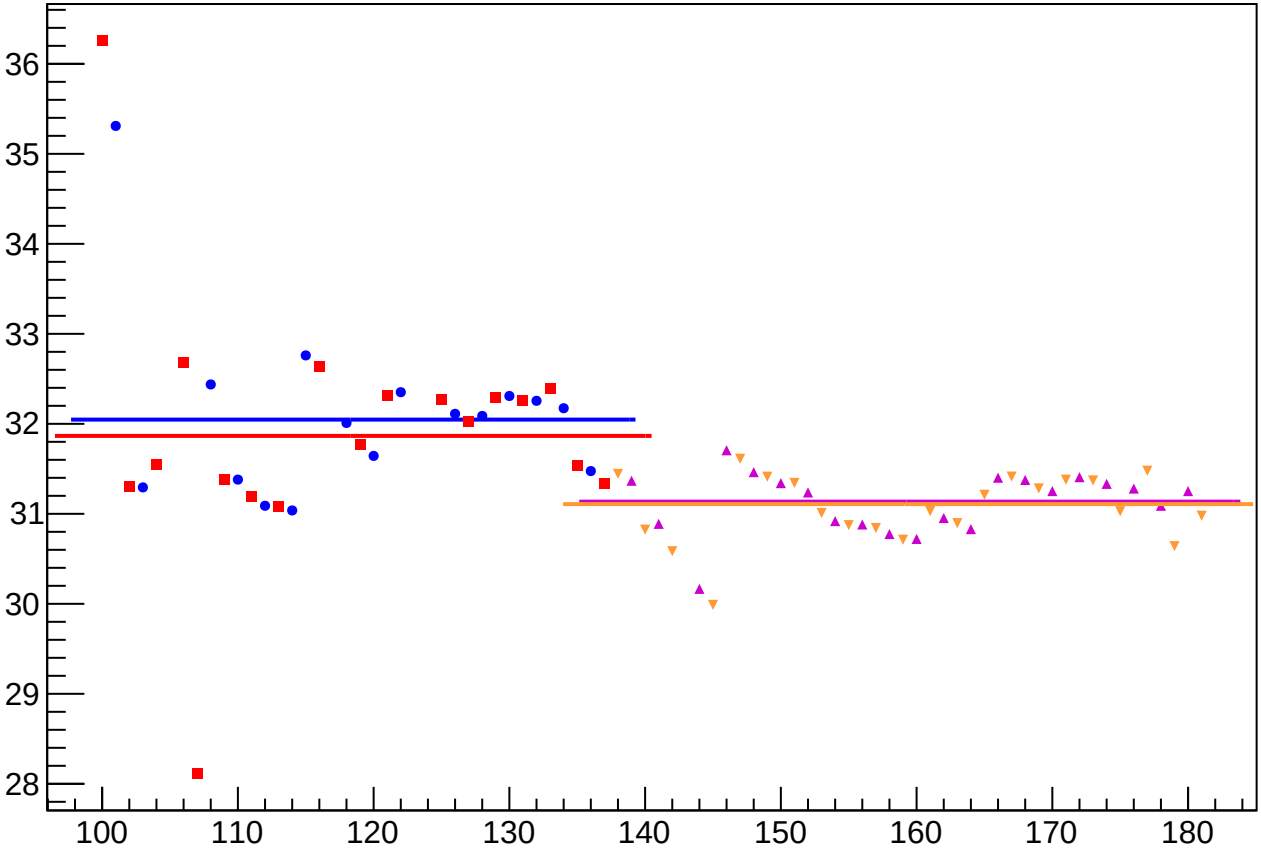
In: -0.000+/-0.000 $\chi^2$/NDF:33.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:42.1/39

All: -0.000+/-0.000 $\chi^2$/NDF: 75.5/76


asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2710106.3/15
Left Out: 0.000+/-0.000 χ²/NDF:2495370.1/21
Right Out: 0.000+/-0.000 χ²/NDF: 1233909.7/17
Left In: 0.000+/-0.000 χ²/NDF:3288450.0/20
Left: 0.000+/-0.000 χ²/NDF: 5820467.3/42
Right: 0.000+/-0.000 χ²/NDF: 4124908.8/33
In: 0.000+/-0.000 χ²/NDF:6688753.8/36
Out: 0.000+/-0.000 χ²/NDF:5517097.6/39
All: 0.000+/-0.000 χ²/NDF: 12226982.7/76

# yield_usl_mean vs Slug, Sign Corrected




Right In: 32.047+/-0.000 $\chi^2$/NDF: 898593424.6/15

Left Out: 31.108+/-0.000 $\chi^2$/NDF:316211124.5/21

Right Out: 31.866+/-0.000 $\chi^2$/NDF: 485941075.6/17

Left In: 31.136+/-0.000 $\chi^2$/NDF:278592664.1/20

Left: 31.121+/-0.000 $\chi^2$/NDF: 595813630.9/42

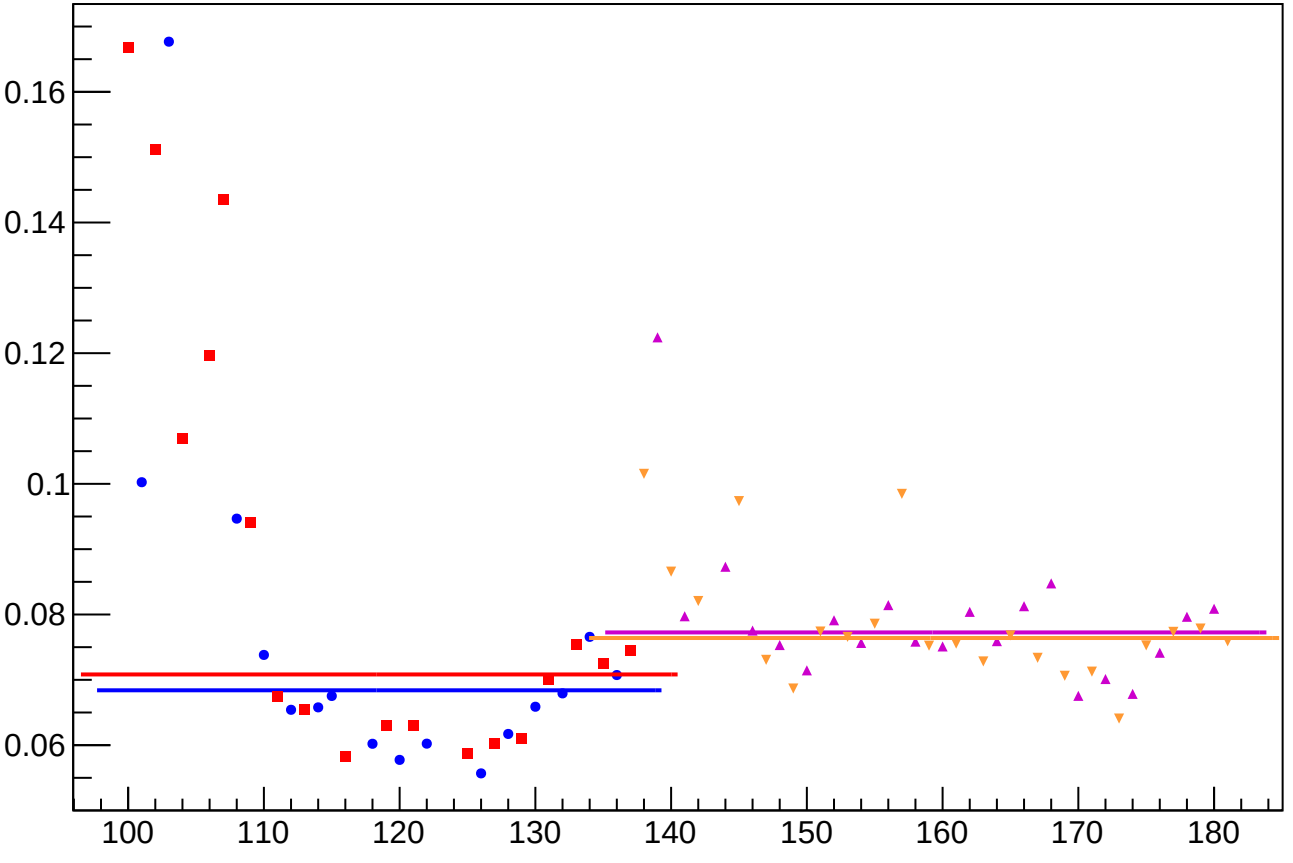
Right: 31.960+/-0.000 $\chi^2$/NDF: 1405663241.1/33

In: 31.445+/-0.000 $\chi^2$/NDF:1911538738.3/36

Out: 31.346+/-0.000 $\chi^2$/NDF:1290913310.6/39

All: 31.396+/-0.000 $\chi^2$/NDF: 3221515279.1/7

# yield_usl_rms vs Slug, Sign Corrected




Right In: 0.068+/-0.000 $\chi^2$/NDF: 703207.9/15

Left Out: 0.076+/-0.000 $\chi^2$/NDF:352477.2/21

Right Out: 0.071+/-0.000 $\chi^2$/NDF: 868237.4/17

Left In: 0.077+/-0.000 $\chi^2$/NDF:358416.9/20

Left: 0.077+/-0.000 $\chi^2$/NDF: 712835.4/42

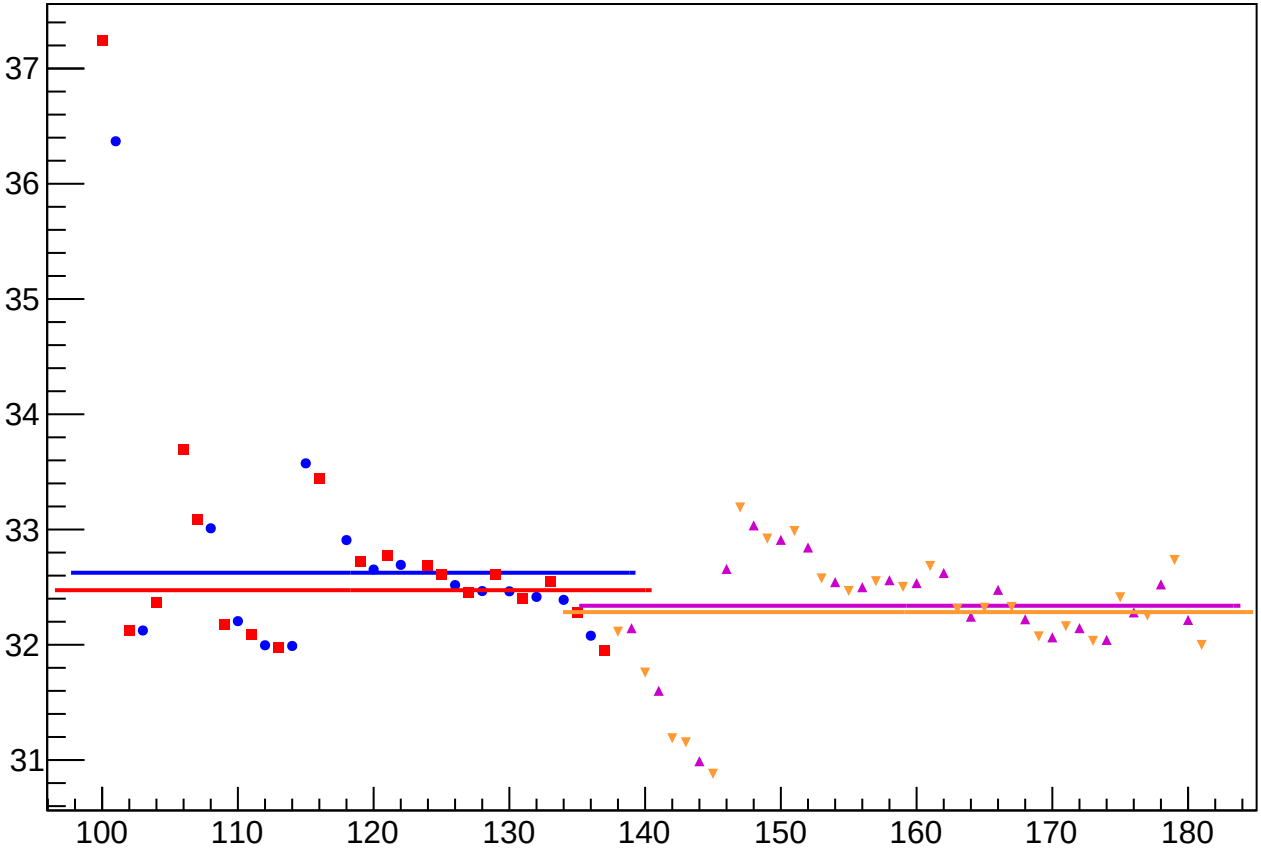
Right: 0.070+/-0.000 $\chi^2$/NDF: 1579028.4/33

In: 0.074+/-0.000 $\chi^2$/NDF:1200337.1/36

Out: 0.075+/-0.000 $\chi^2$/NDF:1273625.5/39

All: 0.074+/-0.000 $\chi^2$/NDF: 2474578.6/76

# yield_usr_mean vs Slug, Sign Corrected




Right In: 32.625+/-0.000 $\chi^2$/NDF: 739141163.5/15

Left Out: 32.283+/-0.000 $\chi^2$/NDF:833590859.9/22

Right Out: 32.474+/-0.000 $\chi^2$/NDF: 156801553.7/18

Left In: 32.339+/-0.000 $\chi^2$/NDF:582044134.2/20

Left: 32.310+/-0.000 $\chi^2$/NDF: 1419810012.4/43

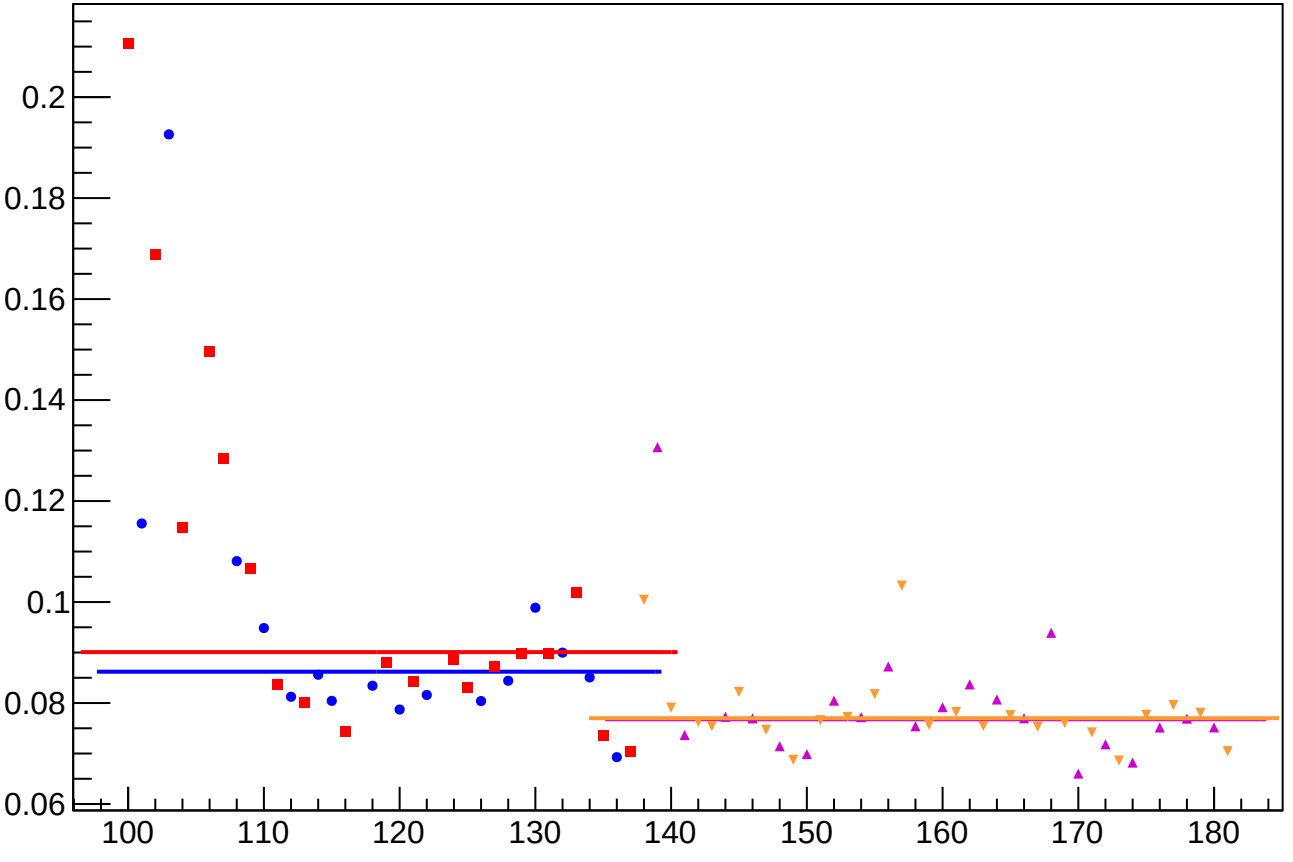
Right: 32.552+/-0.000 $\chi^2$/NDF: 905331922.0/34

In: 32.407+/-0.000 $\chi^2$/NDF:1373867628.2/36

Out: 32.325+/-0.000 $\chi^2$/NDF:1012759000.5/41

All: 32.366+/-0.000 $\chi^2$/NDF: 2398579666.4/7

# yield_usr_rms vs Slug, Sign Corrected




Right In: 0.086+/-0.000 $\chi^2$/NDF: 598718.4/15

Left Out: 0.077+/-0.000 $\chi^2$/NDF:245664.2/22

Right Out: 0.090+/-0.000 $\chi^2$/NDF: 621848.1/18

Left In: 0.077+/-0.000 $\chi^2$/NDF:473602.8/20

Left: 0.077+/-0.000 $\chi^2$/NDF: 719403.3/43

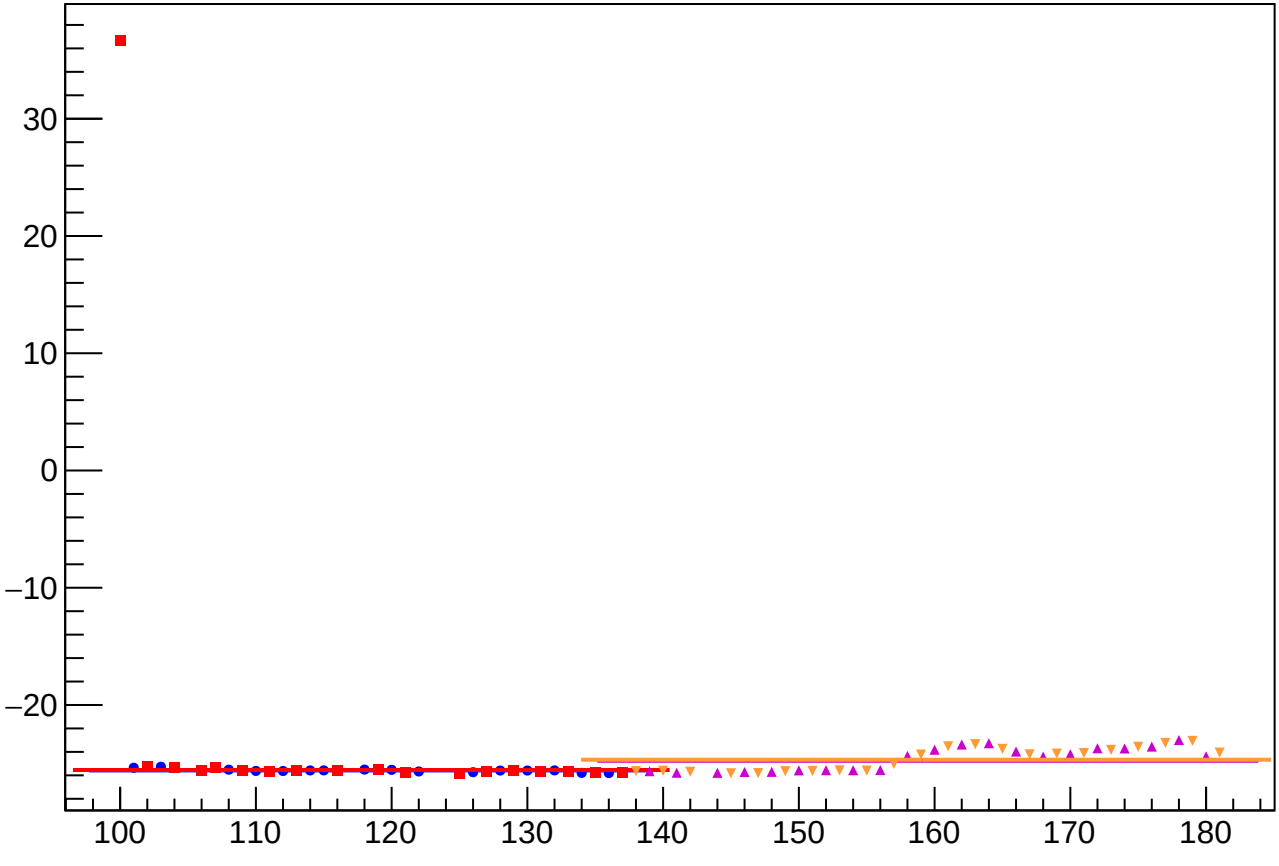
Right: 0.088+/-0.000 $\chi^2$/NDF: 1232875.9/34

In: 0.079+/-0.000 $\chi^2$/NDF:1186531.0/36

Out: 0.080+/-0.000 $\chi^2$/NDF:1079526.3/41

All: 0.079+/-0.000 $\chi^2$/NDF: 2268606.7/78

# yield_dsl_mean vs Slug, Sign Corrected




Right In: -25.579+/-0.000 $\chi^2$/NDF: 98389255.1/15

Left Out: -24.669+/-0.000 $\chi^2$/NDF:8231668770.7/21

Right Out: -25.544+/-0.000 $\chi^2$/NDF: 8907540506.8/17

Left In: -24.757+/-0.000 $\chi^2$/NDF:8064678005.3/20

Left: -24.713+/-0.000 $\chi^2$/NDF: 16328836097.6/42

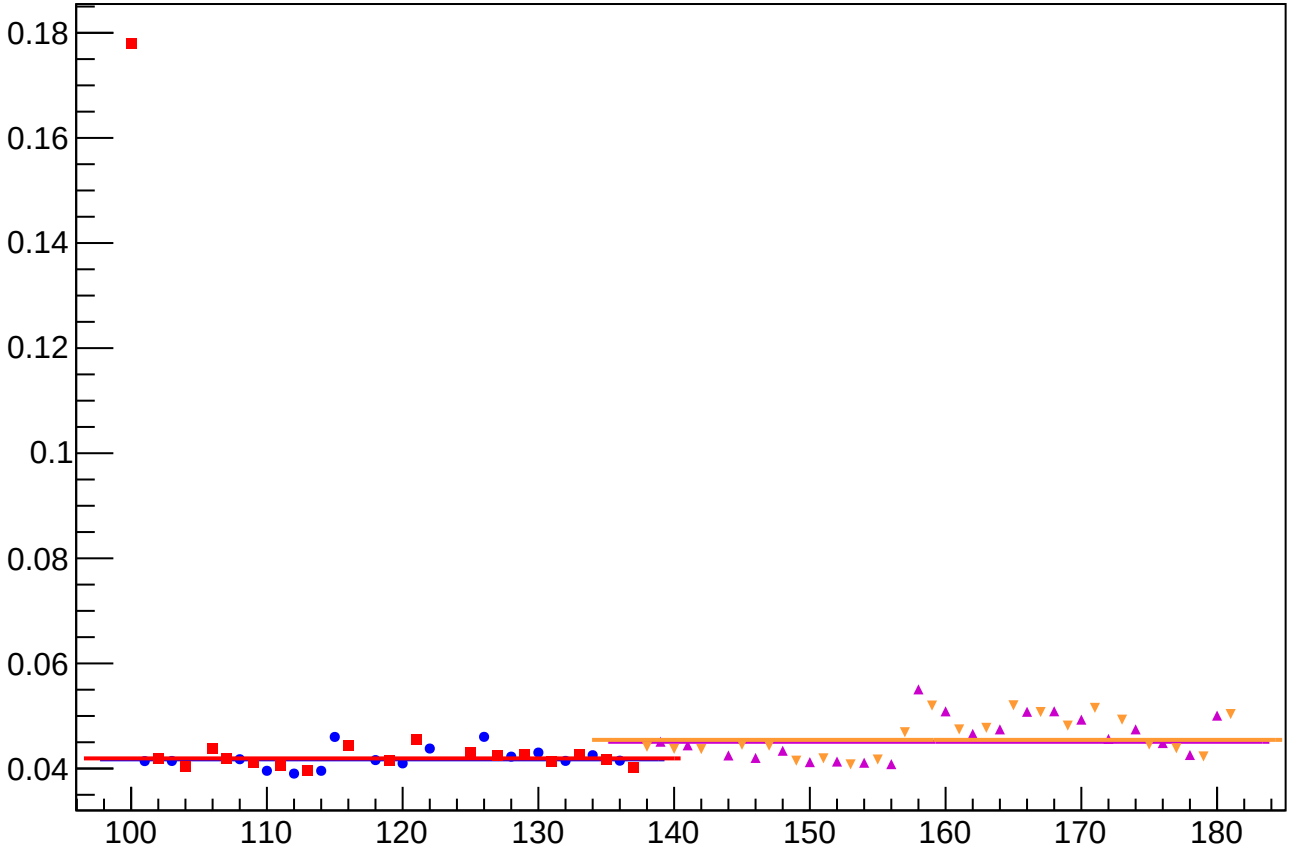
Right: -25.561+/-0.000 $\chi^2$/NDF: 9008481743.9/33

In: -25.031+/-0.000 $\chi^2$/NDF:10014090925.2/36

Out: -24.961+/-0.000 $\chi^2$/NDF:19240279354.9/39

All: -24.996+/-0.000 $\chi^2$/NDF: 29284719256.8

# yield_dsl_rms vs Slug, Sign Corrected




Right In: 0.042+/-0.000 $\chi^2$/NDF: 20733.3/15

Left Out: 0.045+/-0.000 $\chi^2$/NDF:201289.1/21

Right Out: 0.042+/-0.000 $\chi^2$/NDF: 100140.4/17

Left In: 0.045+/-0.000 $\chi^2$/NDF:238945.5/20

Left: 0.045+/-0.000 $\chi^2$/NDF: 441324.7/42

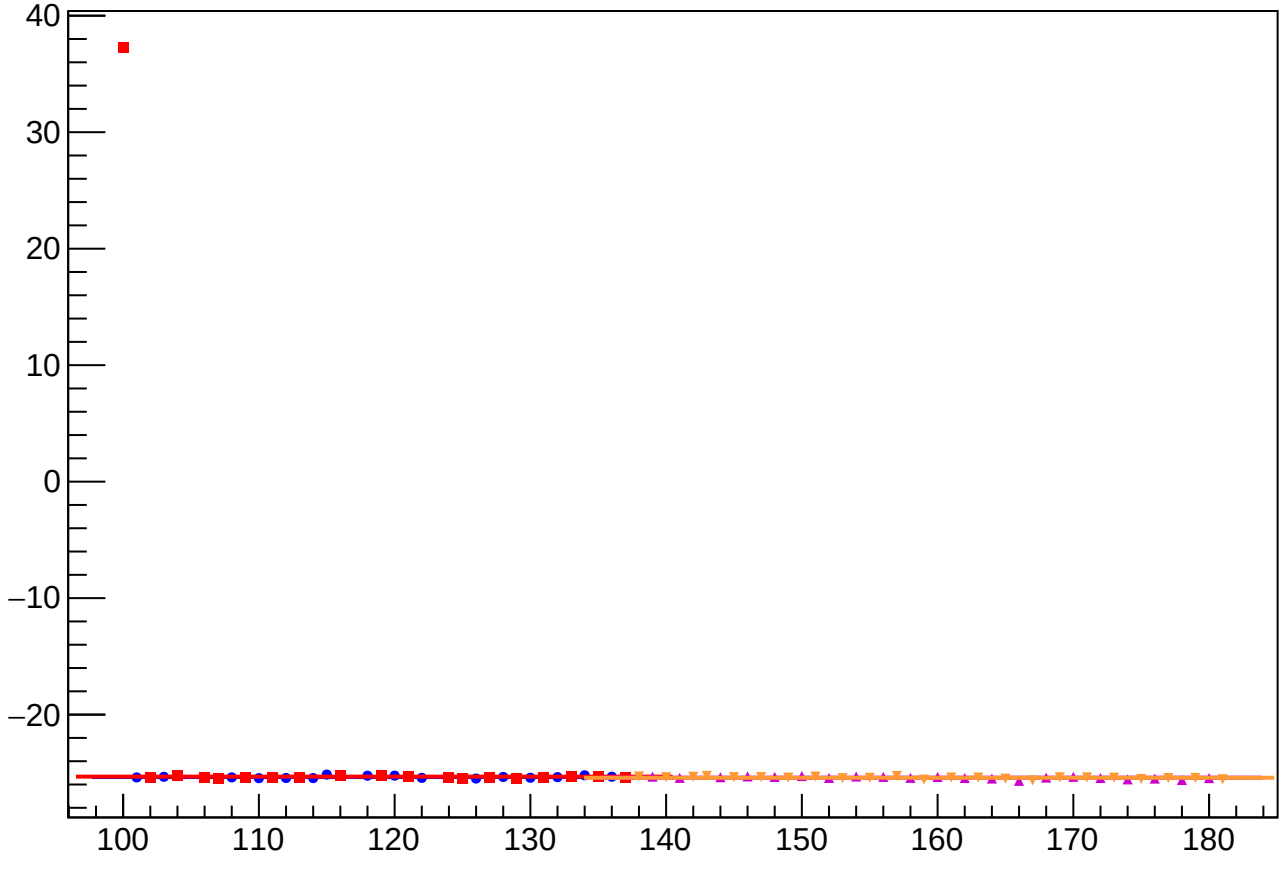
Right: 0.042+/-0.000 $\chi^2$/NDF: 121007.1/33

In: 0.044+/-0.000 $\chi^2$/NDF:320878.5/36

Out: 0.044+/-0.000 $\chi^2$/NDF:369568.9/39

All: 0.044+/-0.000 $\chi^2$/NDF: 691552.4/76

# yield_dsr_mean vs Slug, Sign Corrected




Right In: -25.360+/-0.000 $\chi^2$/NDF: 13284405.9/15

Left Out: -25.420+/-0.000 $\chi^2$/NDF:51200499.8/22

Right Out: -25.322+/-0.000 $\chi^2$/NDF: 6314907036.5/18

Left In: -25.415+/-0.000 $\chi^2$/NDF:54946791.1/20

Left: -25.417+/-0.000 $\chi^2$/NDF: 106216939.1/43

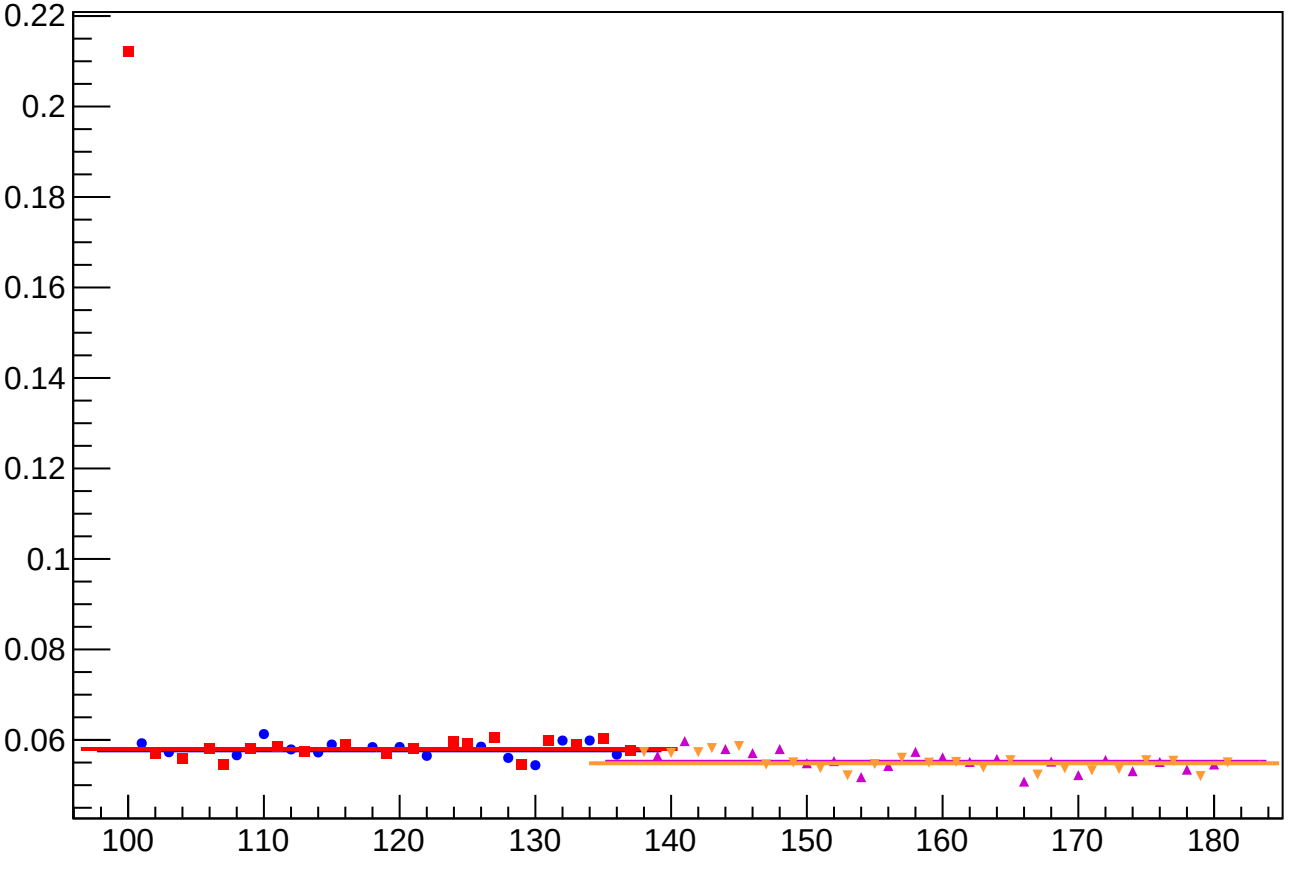
Right: -25.341+/-0.000 $\chi^2$/NDF: 6329738520.5/34

In: -25.400+/-0.000 $\chi^2$/NDF:72722512.6/36

Out: -25.393+/-0.000 $\chi^2$/NDF:6381074881.3/41

All: -25.396+/-0.000 $\chi^2$/NDF: 6453941814.8/

# yield_dsr_rms vs Slug, Sign Corrected




Right In: 0.058+/-0.000 $\chi^2$/NDF: 11763.6/15

Left Out: 0.055+/-0.000 $\chi^2$/NDF:36615.6/22

Right Out: 0.058+/-0.000 $\chi^2$/NDF: 88682.9/18

Left In: 0.055+/-0.000 $\chi^2$/NDF:49276.9/20

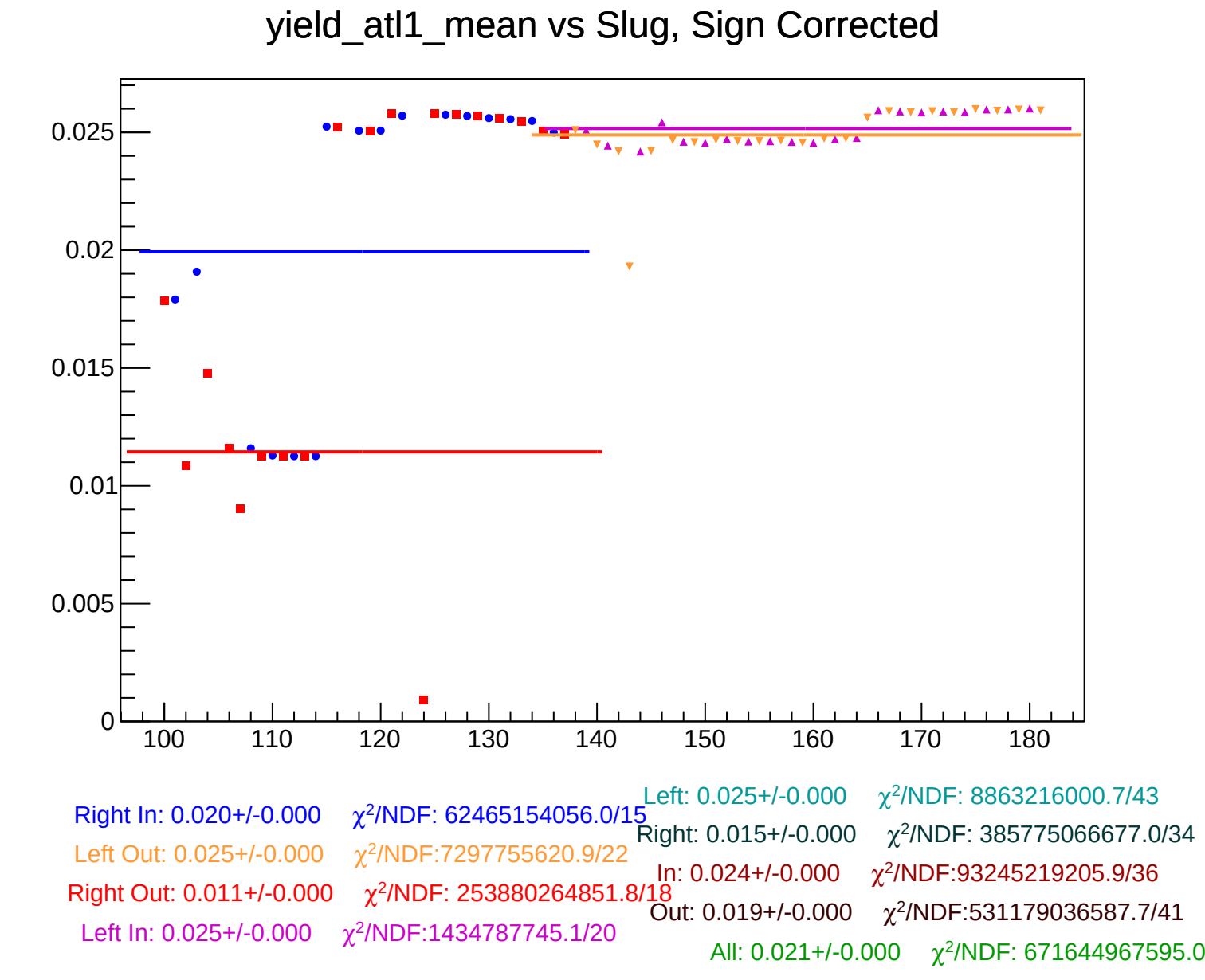
Left: 0.055+/-0.000 $\chi^2$/NDF: 86504.9/43

Right: 0.058+/-0.000 $\chi^2$/NDF: 100633.0/34

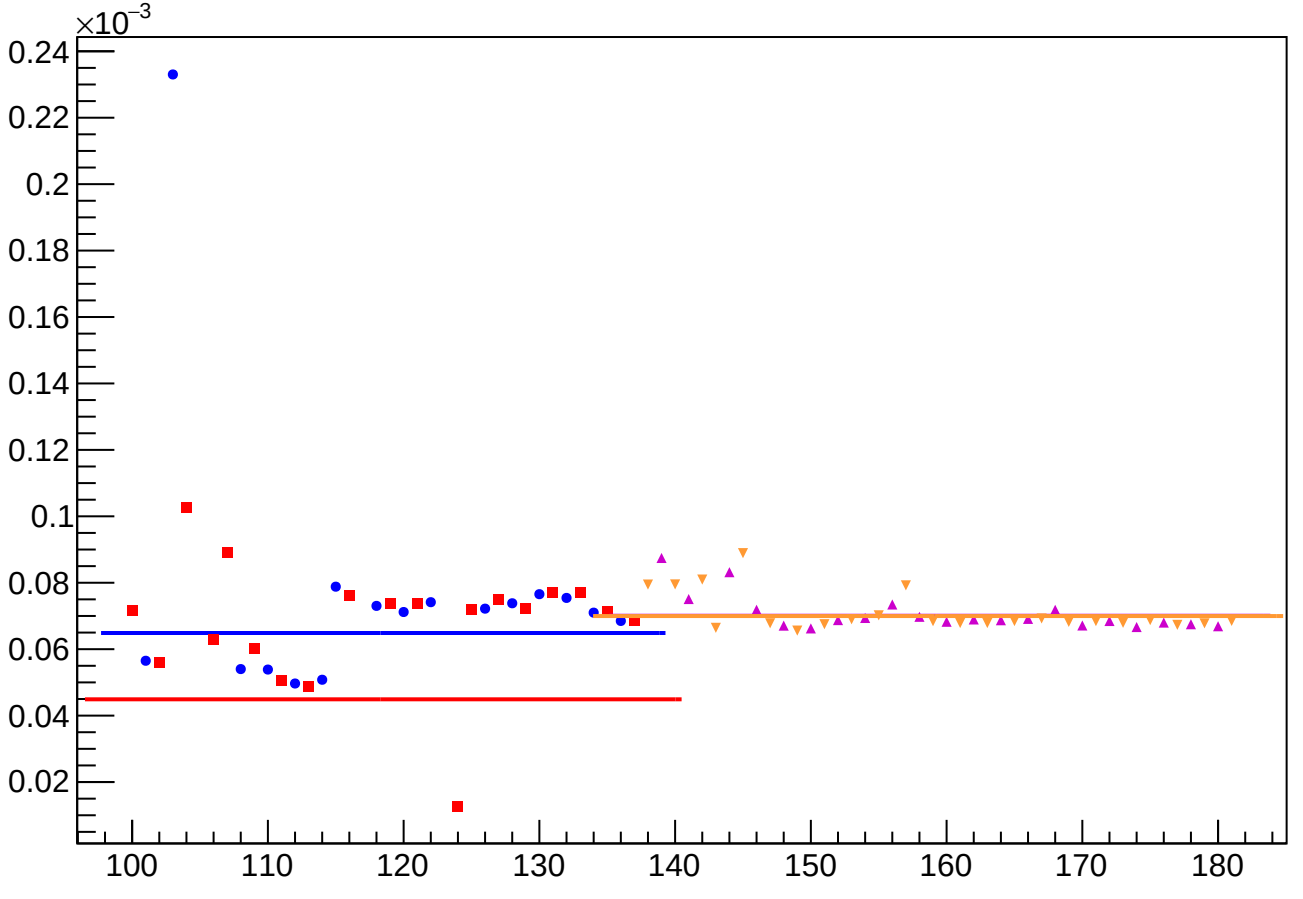
In: 0.056+/-0.000 $\chi^2$/NDF:80483.0/36

Out: 0.056+/-0.000 $\chi^2$/NDF:156653.6/41

All: 0.056+/-0.000 $\chi^2$/NDF: 237403.3/78


yield_atl1_mean vs Slug, Sign Corrected
0.025
0.02
0.015
0.01
0.005
0
100
110
120
130
140
150
160
170
180
Right In: 0.020+/-0.000 χ²/NDF: 62465154056.0/15
Left Out: 0.025+/-0.000 χ²/NDF:7297755620.9/22
Right Out: 0.011+/-0.000 χ²/NDF: 253880264851.8/18
Left In: 0.025+/-0.000 χ²/NDF:1434787745.1/20
Left: 0.025+/-0.000 χ²/NDF: 8863216000.7/43
Right: 0.015+/-0.000 χ²/NDF: 385775066677.0/34
In: 0.024+/-0.000 χ²/NDF:93245219205.9/36
Out: 0.019+/-0.000 χ²/NDF:531179036587.7/41
All: 0.021+/-0.000 χ²/NDF: 671644967595.0

# yield_atl1_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 816892.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:181071.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3770565.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:148179.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 329283.3/43

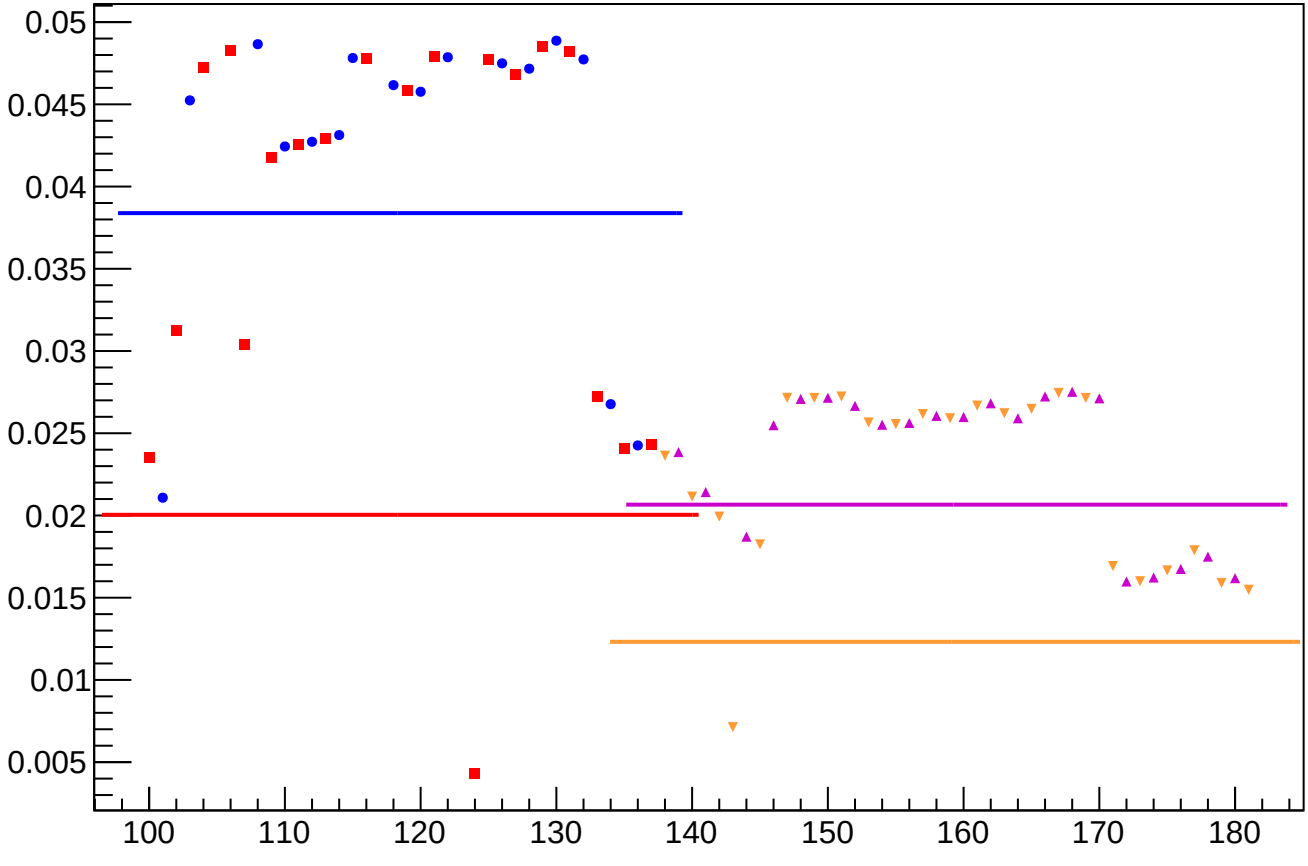
Right: 0.000+/-0.000 $\chi^2$/NDF: 5354969.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:1022936.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5826190.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 7268434.8/78

# yield_atl2_mean vs Slug, Sign Corrected




Right In: 0.038+/-0.000 $\chi^2$/NDF: 7078619233.3/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:35888016977.0/22

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 42185025429.6/18

Left In: 0.021+/-0.000 $\chi^2$/NDF:6021898668.7/20

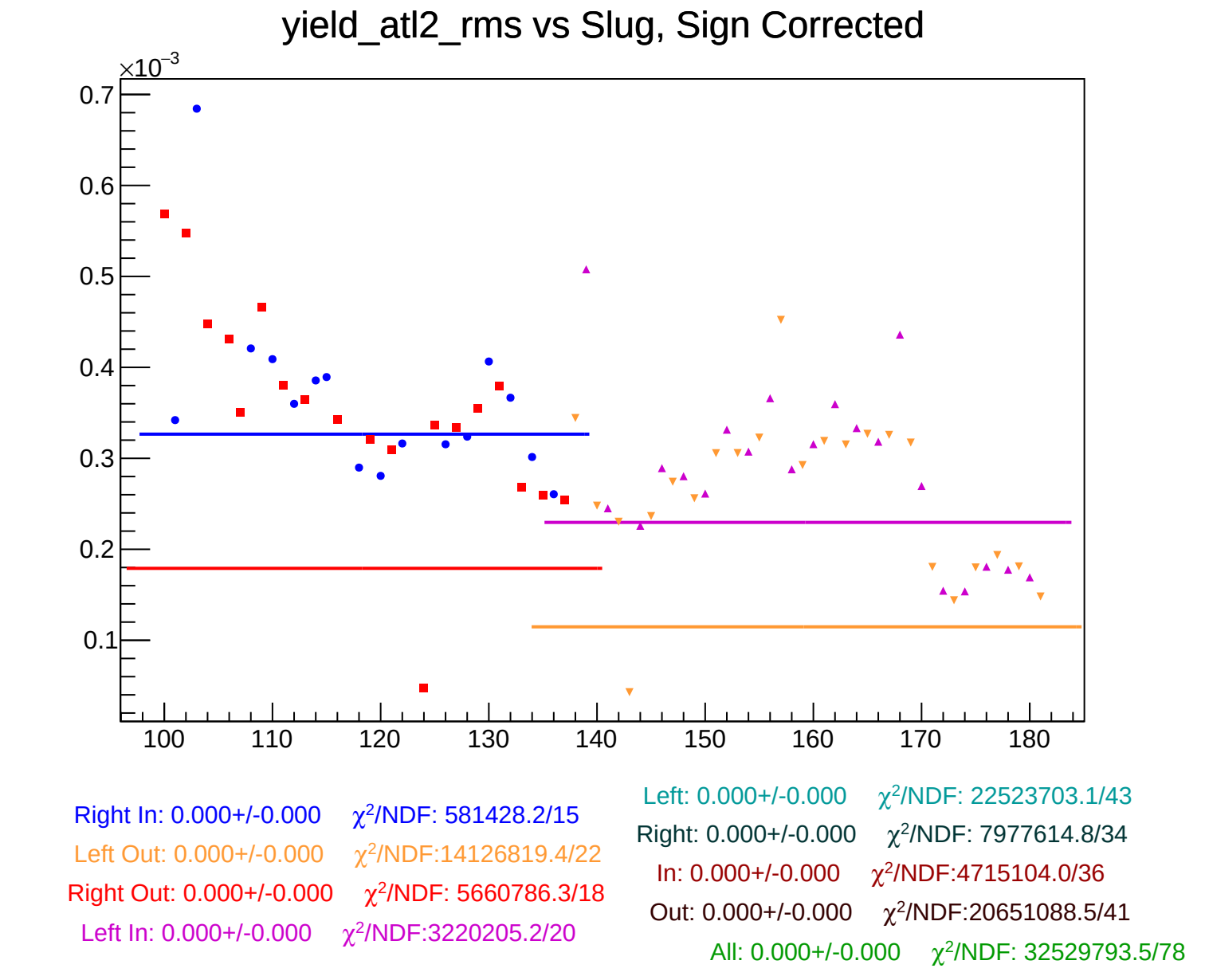
Left: 0.015+/-0.000 $\chi^2$/NDF: 55565136237.5/43

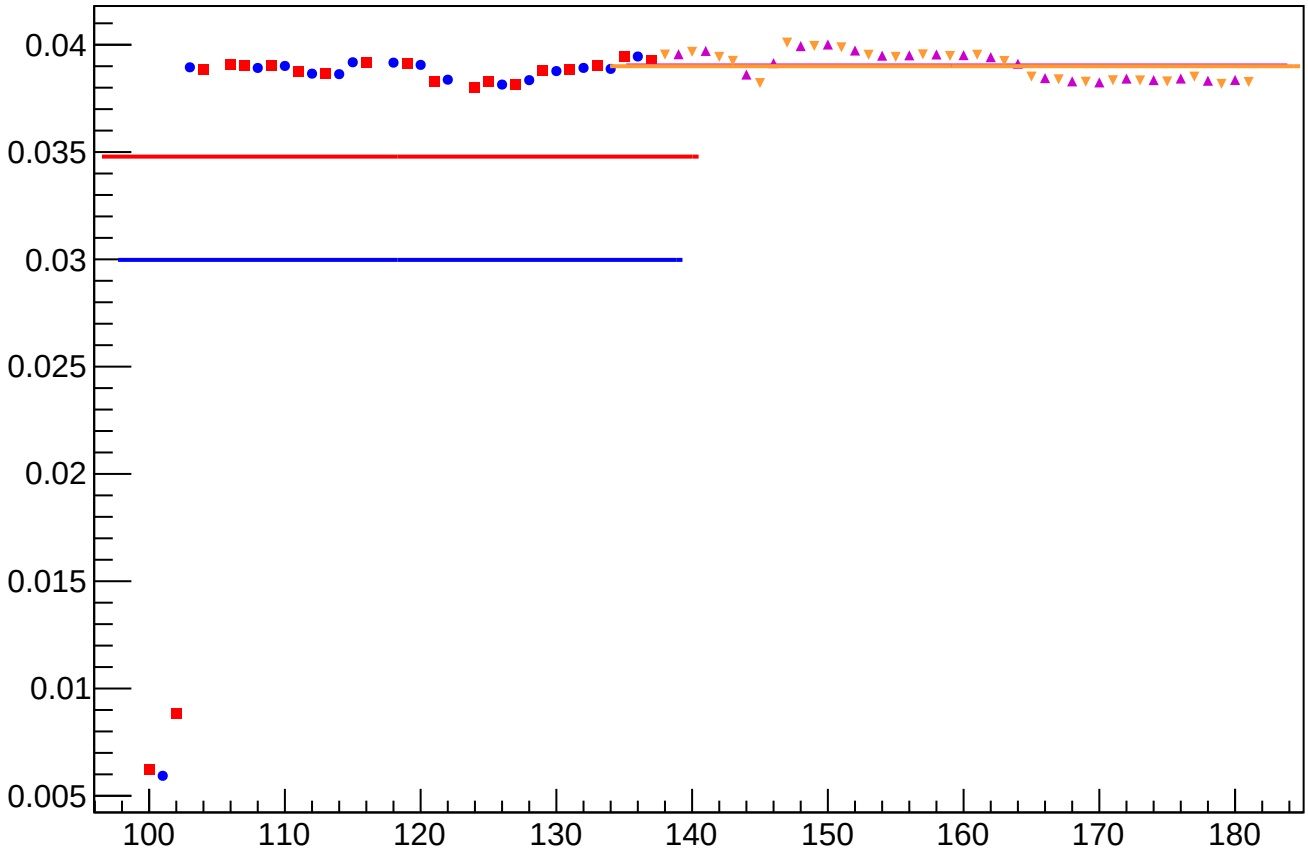
Right: 0.026+/-0.000 $\chi^2$/NDF: 62680347103.1/34

In: 0.024+/-0.000 $\chi^2$/NDF:28353979711.0/36

Out: 0.013+/-0.000 $\chi^2$/NDF:84301299796.9/41

All: 0.016+/-0.000 $\chi^2$/NDF: 138350363370.2


yield_atl2_rms vs Slug, Sign Corrected
×10⁻³
0.7
0.6
0.5
0.4
0.3
0.2
0.1
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 581428.2/15
Left Out: 0.000+/-0.000 χ²/NDF:14126819.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 5660786.3/18
Left In: 0.000+/-0.000 χ²/NDF:3220205.2/20
Left: 0.000+/-0.000 χ²/NDF: 22523703.1/43
Right: 0.000+/-0.000 χ²/NDF: 7977614.8/34
In: 0.000+/-0.000 χ²/NDF:4715104.0/36
Out: 0.000+/-0.000 χ²/NDF:20651088.5/41
All: 0.000+/-0.000 χ²/NDF: 32529793.5/78




Right In: 0.030+/-0.000 $\chi^2$/NDF: 108275706275.7/15

Left Out: 0.039+/-0.000 $\chi^2$/NDF:464903211.6/22

Right Out: 0.035+/-0.000 $\chi^2$/NDF: 47263545471.6/18

Left In: 0.039+/-0.000 $\chi^2$/NDF:386973160.4/20

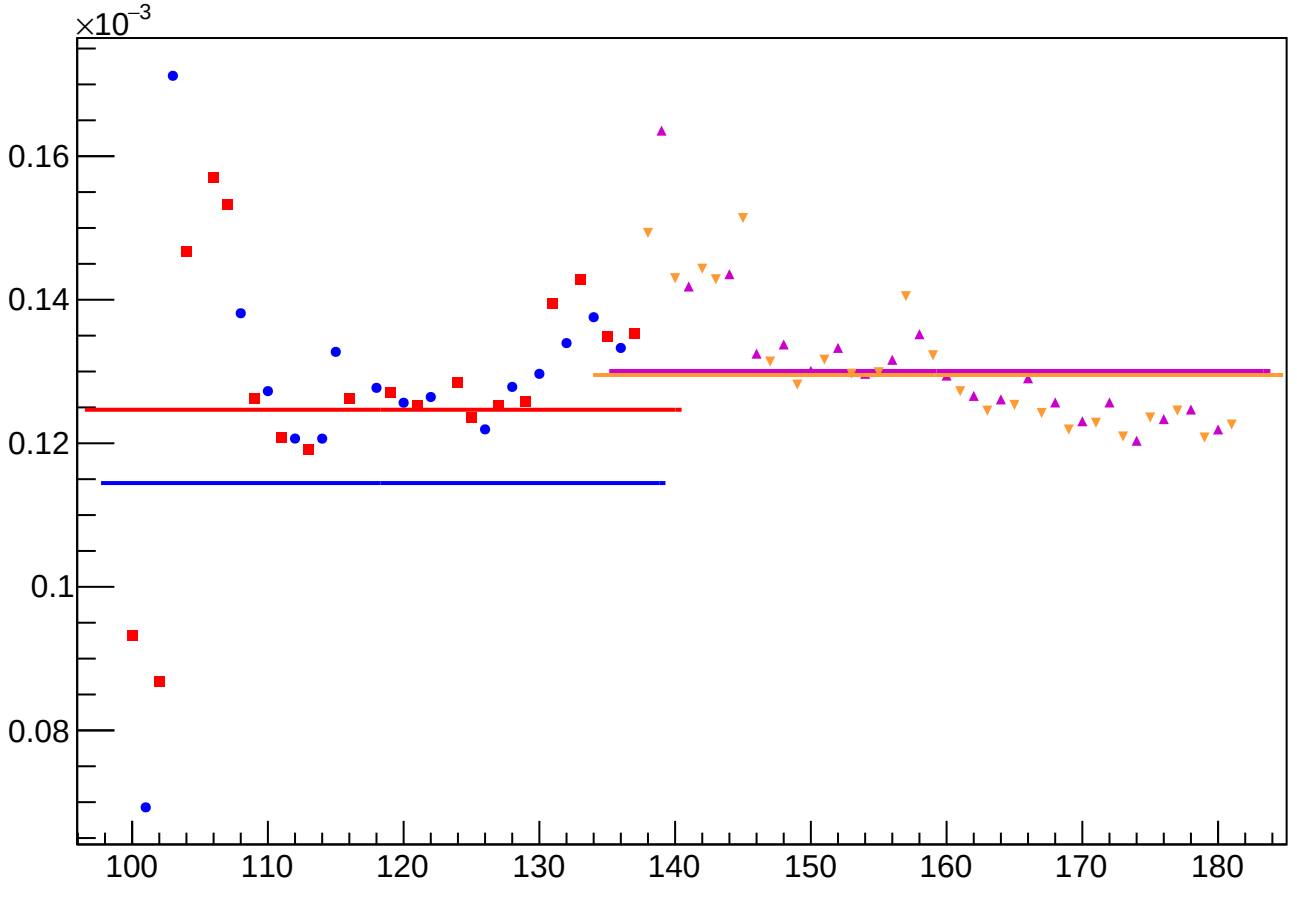
Left: 0.039+/-0.000 $\chi^2$/NDF: 852453861.3/43

Right: 0.032+/-0.000 $\chi^2$/NDF: 161037517780.6/34

In: 0.036+/-0.000 $\chi^2$/NDF:136218042106.9/36

Out: 0.038+/-0.000 $\chi^2$/NDF:53304645599.8/41

All: 0.037+/-0.000 $\chi^2$/NDF: 191918338467.5




Right In: 0.000+/-0.000 $\chi^2$/NDF: 853142.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:152659.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 260393.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:138957.0/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 291936.7/43

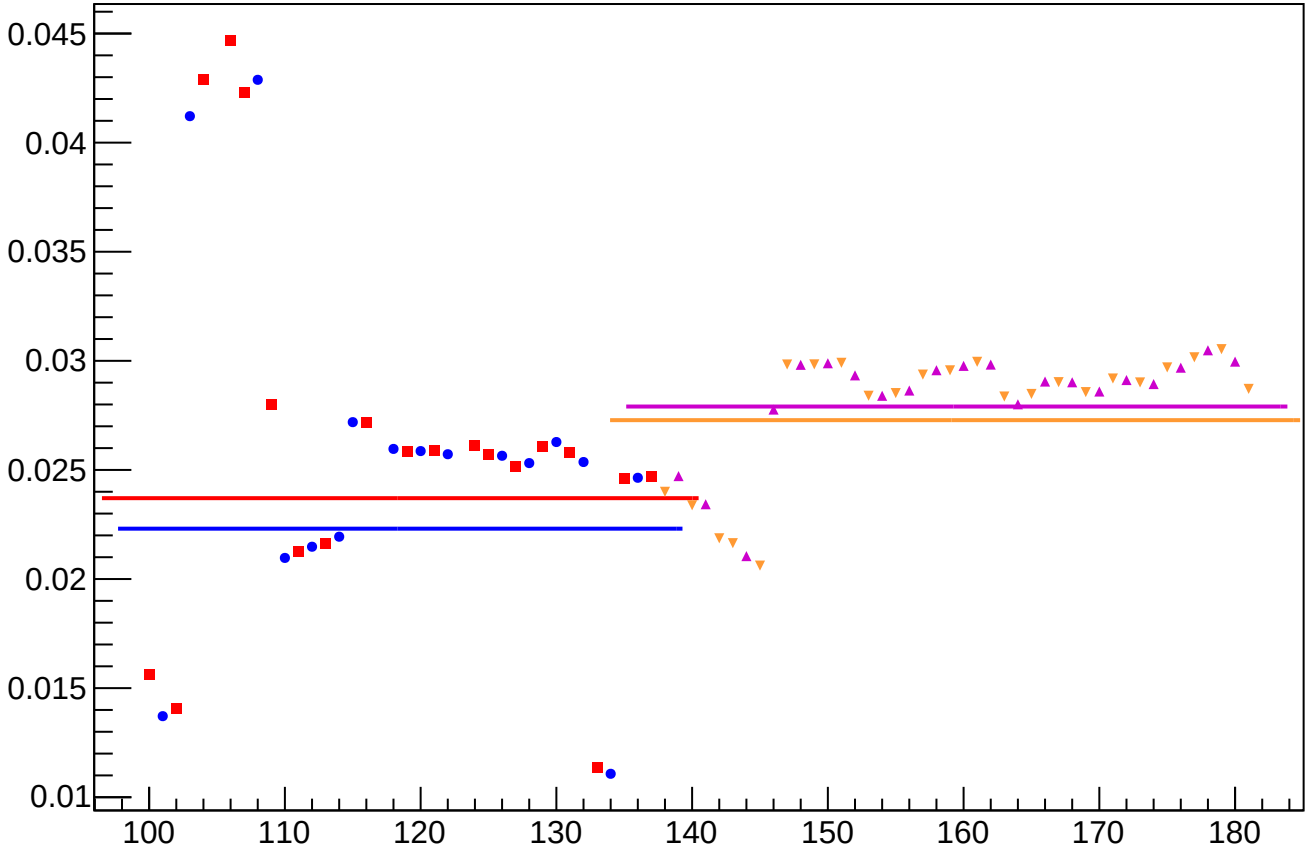
Right: 0.000+/-0.000 $\chi^2$/NDF: 1163063.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:1155856.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:427796.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 1599944.4/78

# yield_atr2_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.000 $\chi^2$/NDF: 5012486114.6/15

Left Out: 0.027+/-0.000 $\chi^2$/NDF:2172922626.2/22

Right Out: 0.024+/-0.000 $\chi^2$/NDF: 5581865088.7/18

Left In: 0.028+/-0.000 $\chi^2$/NDF:1445841728.2/20

Left: 0.028+/-0.000 $\chi^2$/NDF: 3655447906.0/43

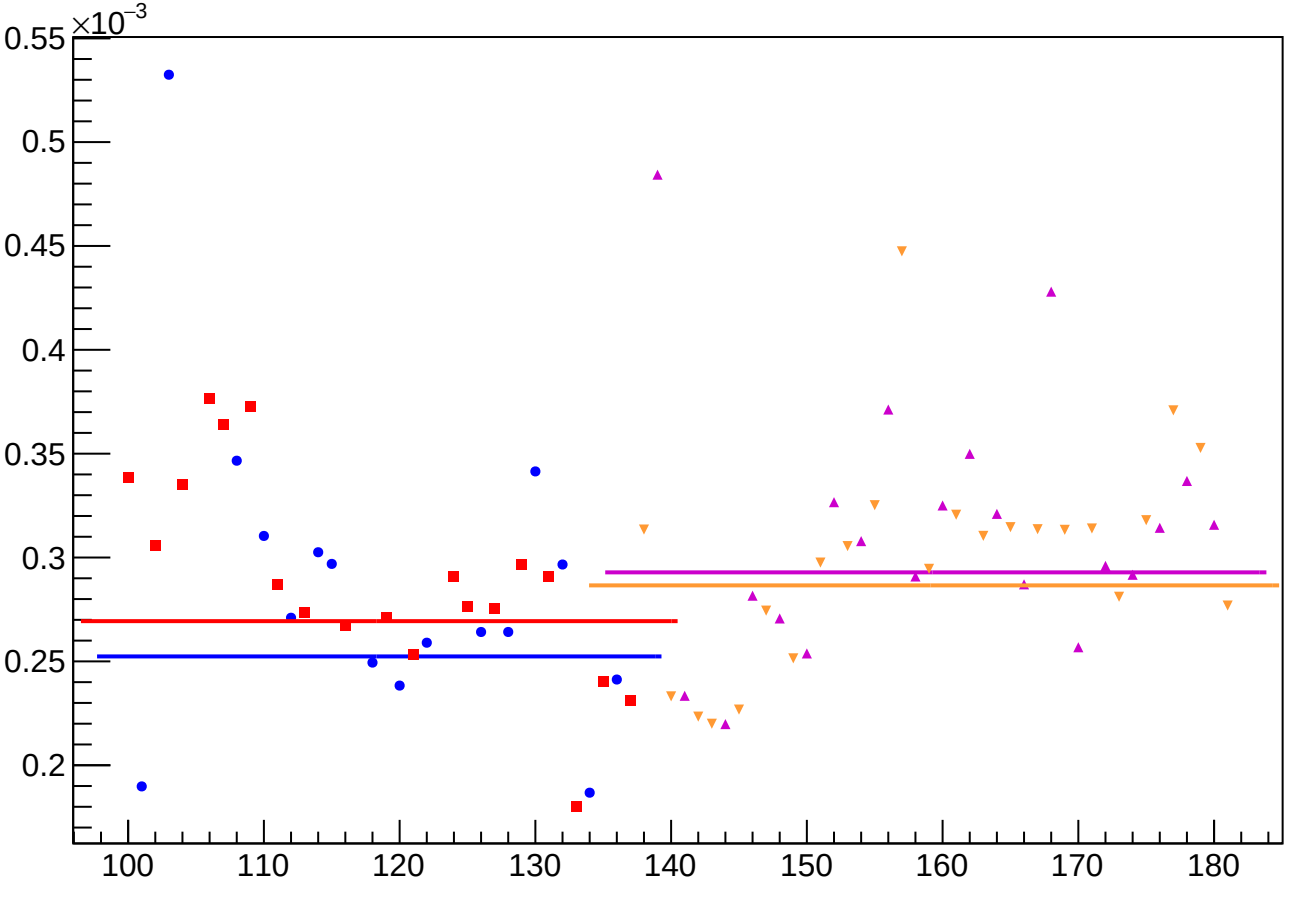
Right: 0.023+/-0.000 $\chi^2$/NDF: 10685664717.3/34

In: 0.026+/-0.000 $\chi^2$/NDF:8449815632.9/36

Out: 0.026+/-0.000 $\chi^2$/NDF:8539022432.8/41

All: 0.026+/-0.000 $\chi^2$/NDF: 16996478322.6/7

# yield_atr2_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 707863.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:814425.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 446359.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:967880.9/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 1789689.7/43

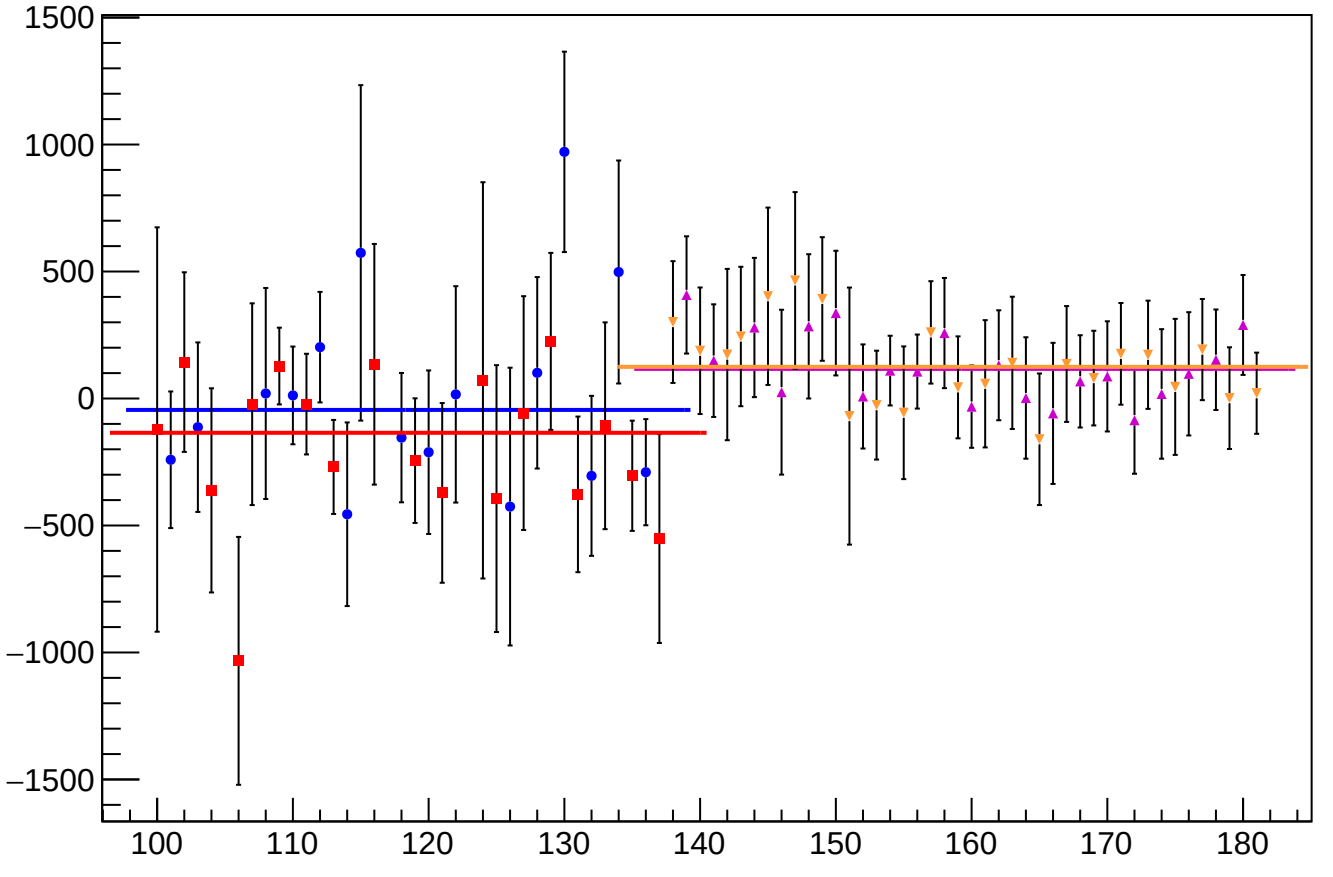
Right: 0.000+/-0.000 $\chi^2$/NDF: 1181187.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1883889.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:1297149.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 3182984.6/78

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -44.917+/-76.198 $\chi^2$/NDF: 15.5/15

Left Out: 124.678+/-48.651 $\chi^2$/NDF:7.8/22

Right Out: -134.996+/-68.062 $\chi^2$/NDF: 12.9/18

Left In: 116.522+/-45.467 $\chi^2$/NDF:7.4/20

Left: 120.325+/-33.219 $\chi^2$/NDF: 15.2/43

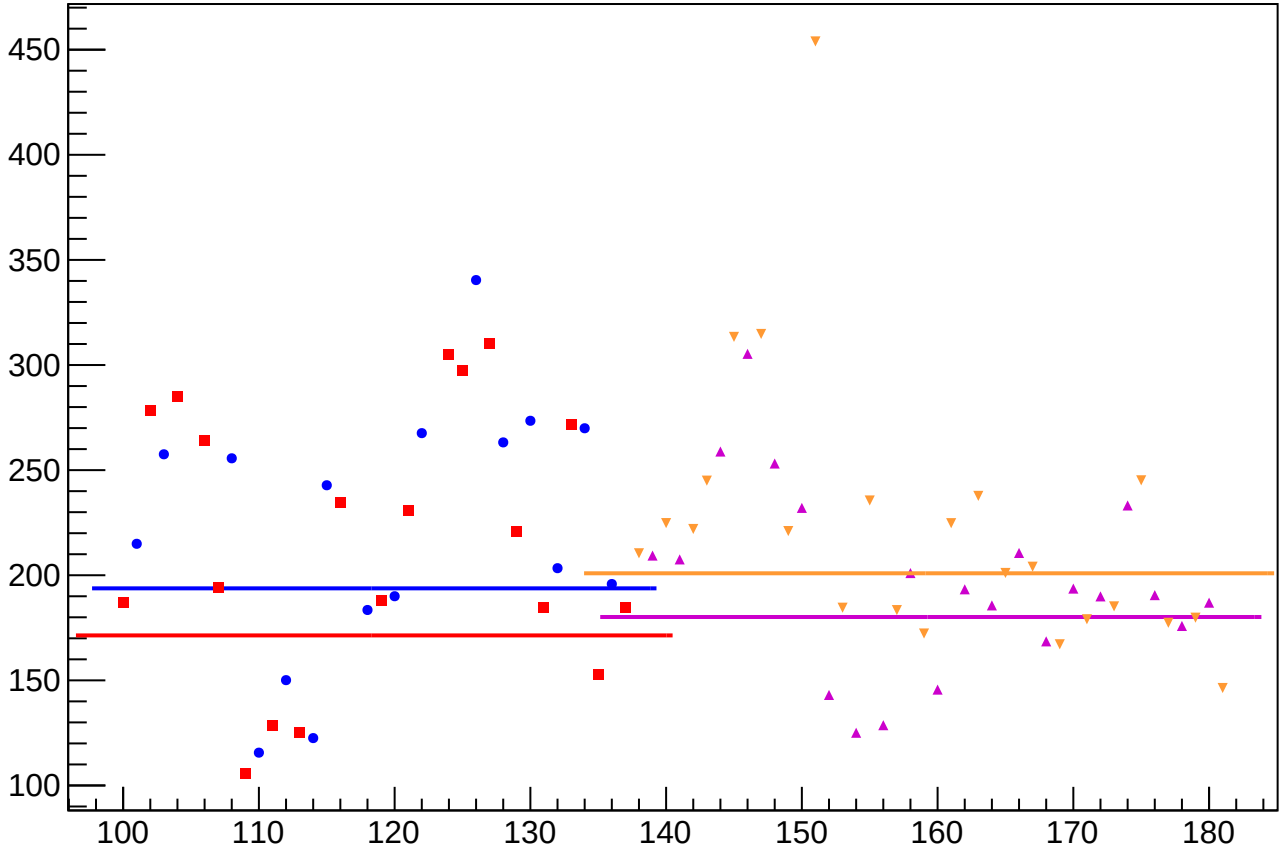
Right: -95.021+/-50.761 $\chi^2$/NDF: 29.2/34

In: 74.135+/-39.044 $\chi^2$/NDF:26.1/36

Out: 36.866+/-39.579 $\chi^2$/NDF:30.4/41

All: 55.754+/-27.796 $\chi^2$/NDF: 57.0/78

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 193.768+/-0.054 $\chi^2$/NDF: 1048095.1/15

Left Out: 200.929+/-0.034 $\chi^2$/NDF:1615143.5/22

Right Out: 171.382+/-0.048 $\chi^2$/NDF: 1658079.5/18

Left In: 180.140+/-0.032 $\chi^2$/NDF:1638846.4/20

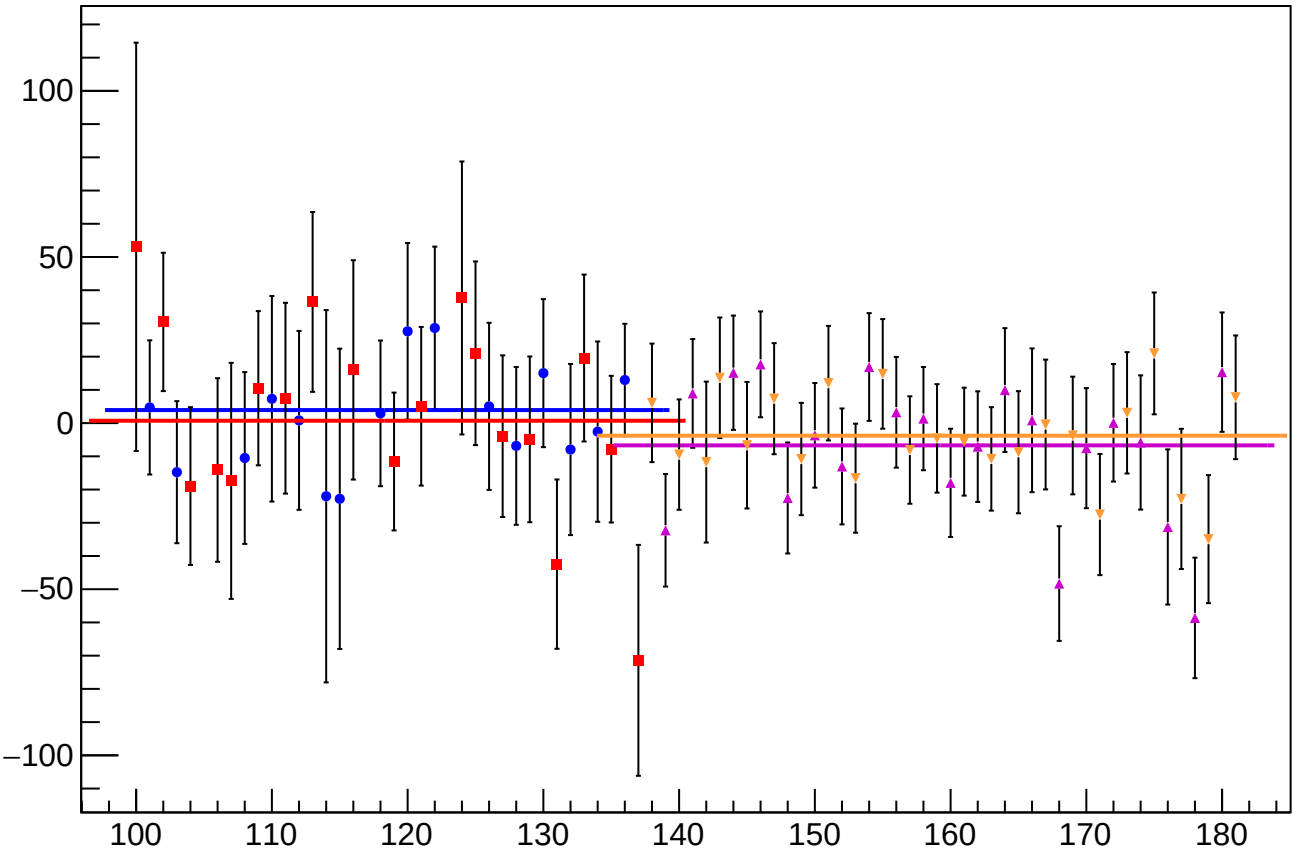
Left: 189.832+/-0.023 $\chi^2$/NDF: 3448925.7/43

Right: 181.316+/-0.036 $\chi^2$/NDF: 2802189.0/34

In: 183.718+/-0.028 $\chi^2$/NDF:2734114.8/36

Out: 190.937+/-0.028 $\chi^2$/NDF:3522691.1/41

All: 187.279+/-0.020 $\chi^2$/NDF: 6290528.0/78




Right In: 3.923+/-6.172 $\chi^2$/NDF: 4.5/15

Left Out: -3.786+/-3.697 $\chi^2$/NDF:12.7/22

Right Out: 0.714+/-6.077 $\chi^2$/NDF: 15.9/18

Left In: -6.702+/-3.796 $\chi^2$/NDF:29.1/20

Left: -5.206+/-2.649 $\chi^2$/NDF: 42.1/43

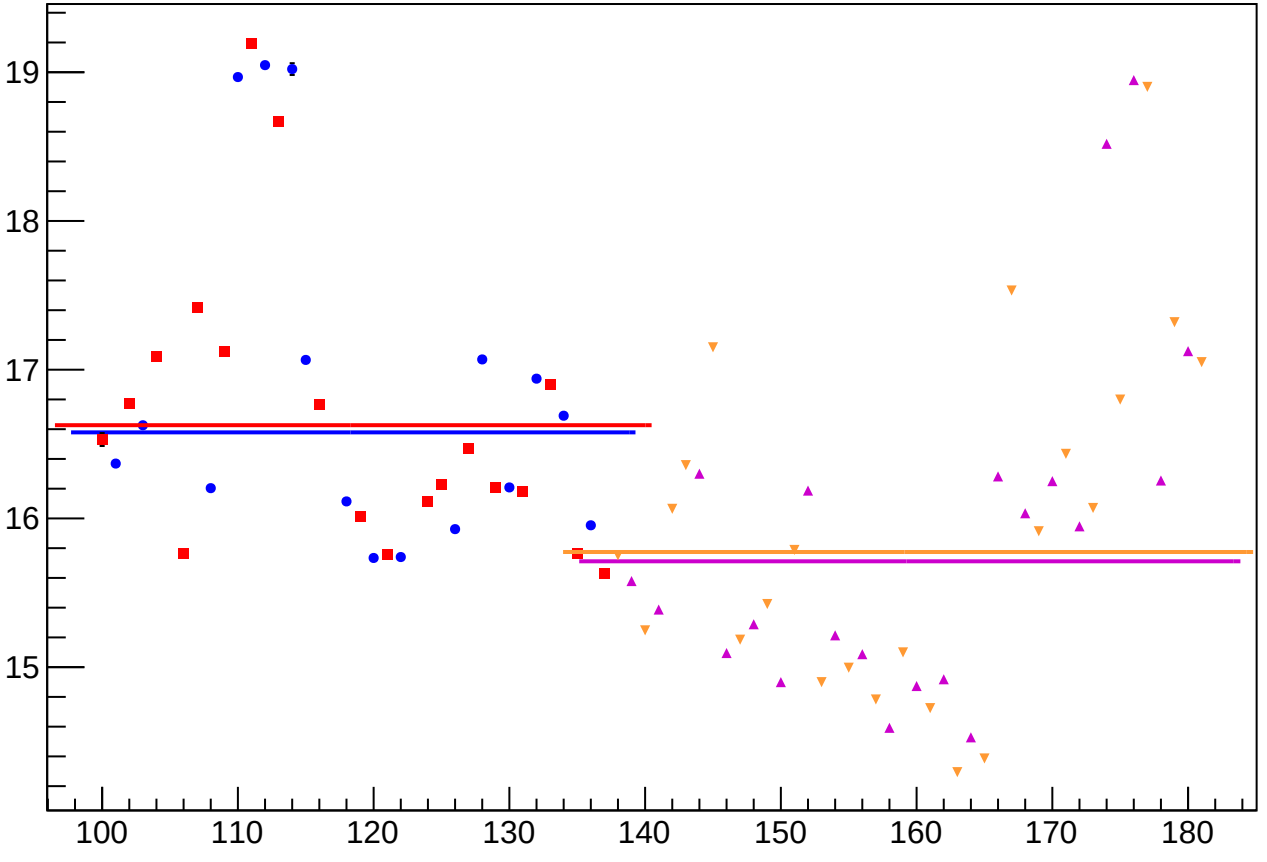
Right: 2.294+/-4.330 $\chi^2$/NDF: 20.5/34

In: -3.786+/-3.233 $\chi^2$/NDF:35.8/36

Out: -2.571+/-3.158 $\chi^2$/NDF:29.0/41

All: -3.164+/-2.259 $\chi^2$/NDF: 64.8/78

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 16.579+/-0.004 $\chi^2$/NDF: 44575.6/15

Left Out: 15.774+/-0.003 $\chi^2$/NDF:168982.7/22

Right Out: 16.627+/-0.004 $\chi^2$/NDF: 43461.8/18

Left In: 15.712+/-0.003 $\chi^2$/NDF:142651.9/20

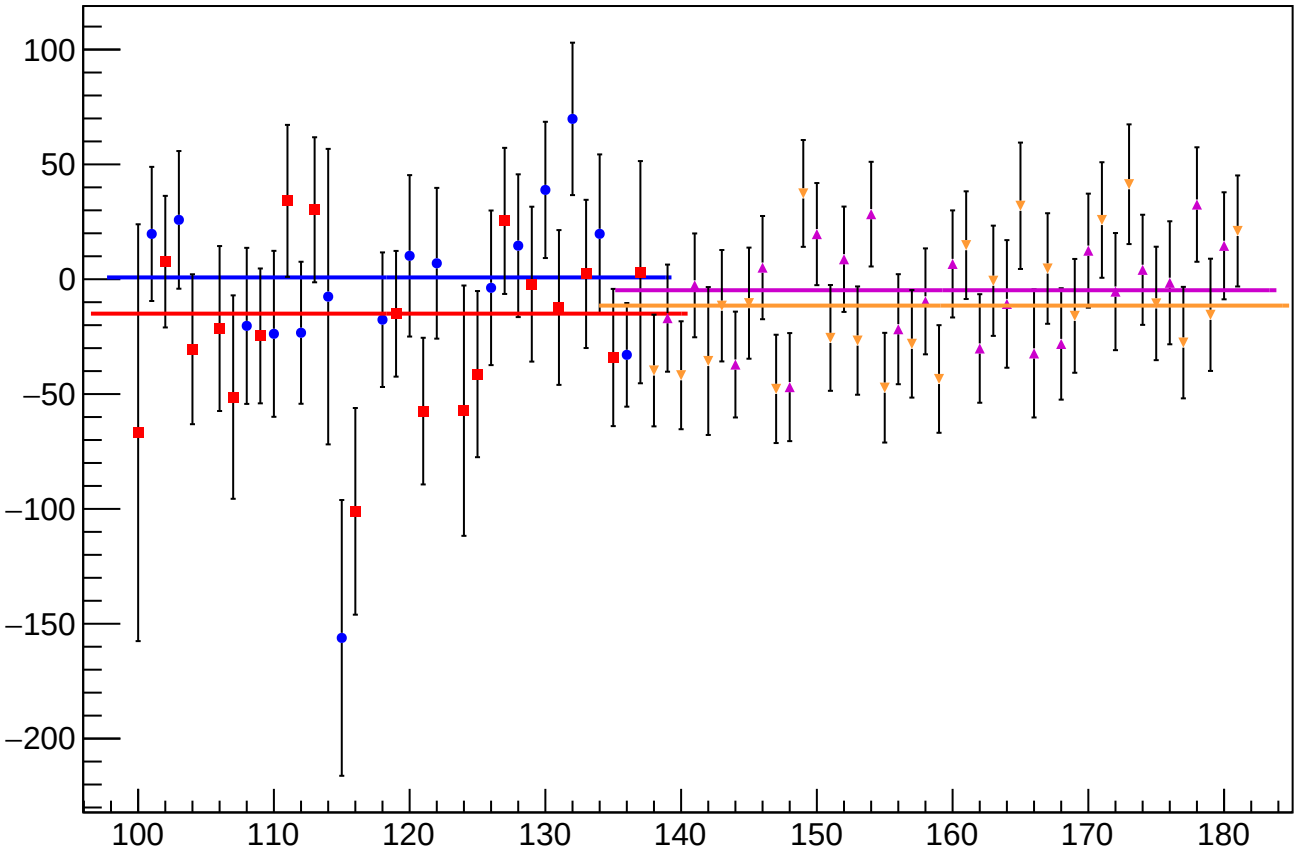
Left: 15.744+/-0.002 $\chi^2$/NDF: 311913.7/43

Right: 16.603+/-0.003 $\chi^2$/NDF: 88099.6/34

In: 15.950+/-0.002 $\chi^2$/NDF:215856.4/36

Out: 16.005+/-0.002 $\chi^2$/NDF:241177.3/41

All: 15.978+/-0.002 $\chi^2$/NDF: 457329.7/78




Right In: 0.790+/-8.125 $\chi^2$/NDF: 18.7/15

Left Out: -11.478+/-5.089 $\chi^2$/NDF:28.8/22

Right Out: -14.981+/-7.953 $\chi^2$/NDF: 15.4/18

Left In: -4.791+/-5.227 $\chi^2$/NDF:16.8/20

Left: -8.224+/-3.646 $\chi^2$/NDF: 46.4/43

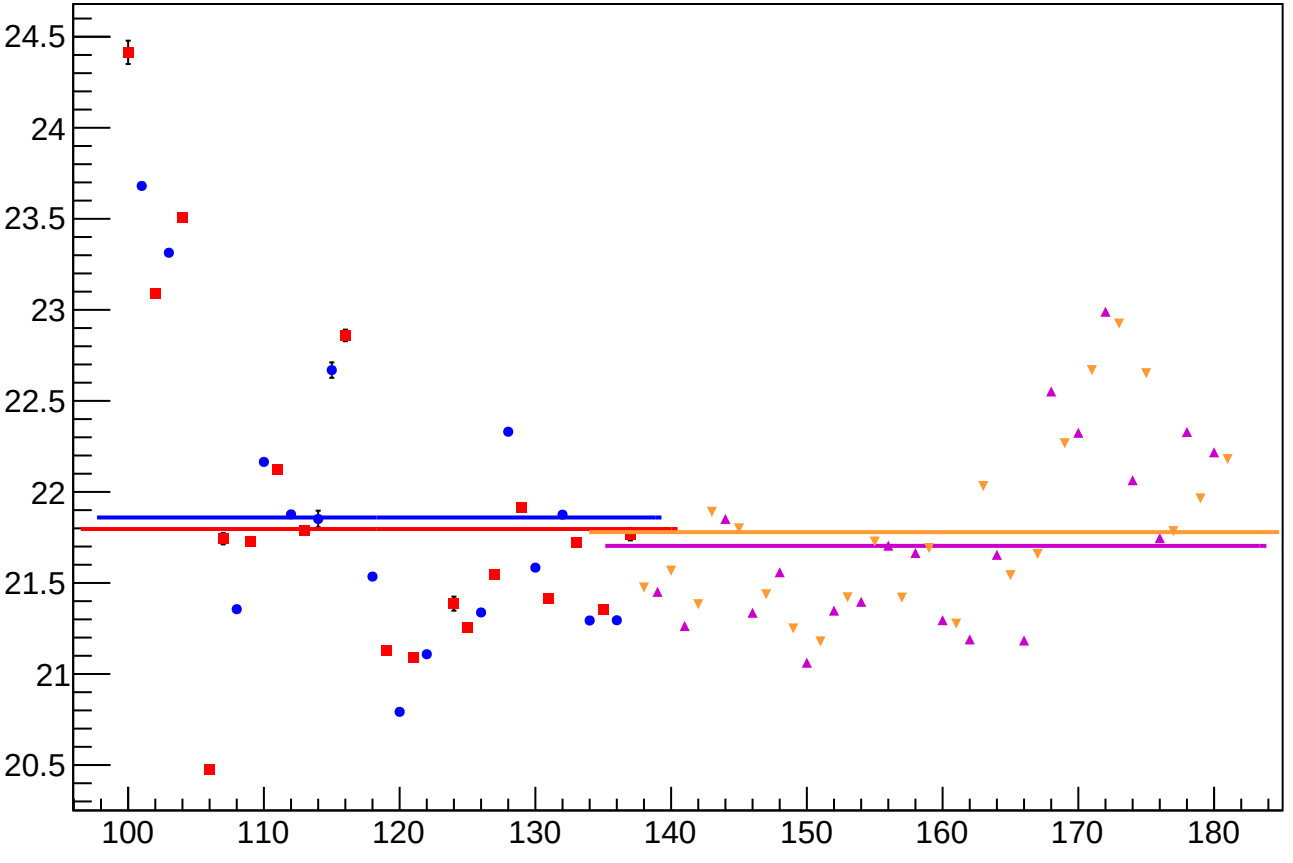
Right: -7.264+/-5.683 $\chi^2$/NDF: 36.0/34

In: -3.157+/-4.396 $\chi^2$/NDF:35.8/36

Out: -12.496+/-4.287 $\chi^2$/NDF:44.3/41

All: -7.944+/-3.069 $\chi^2$/NDF: 82.4/78

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 21.860+/-0.006 $\chi^2$/NDF: 19468.1/15

Left Out: 21.779+/-0.004 $\chi^2$/NDF:16247.5/22

Right Out: 21.796+/-0.006 $\chi^2$/NDF: 18861.3/18

Left In: 21.704+/-0.004 $\chi^2$/NDF:17934.7/20

Left: 21.742+/-0.003 $\chi^2$/NDF: 34396.8/43

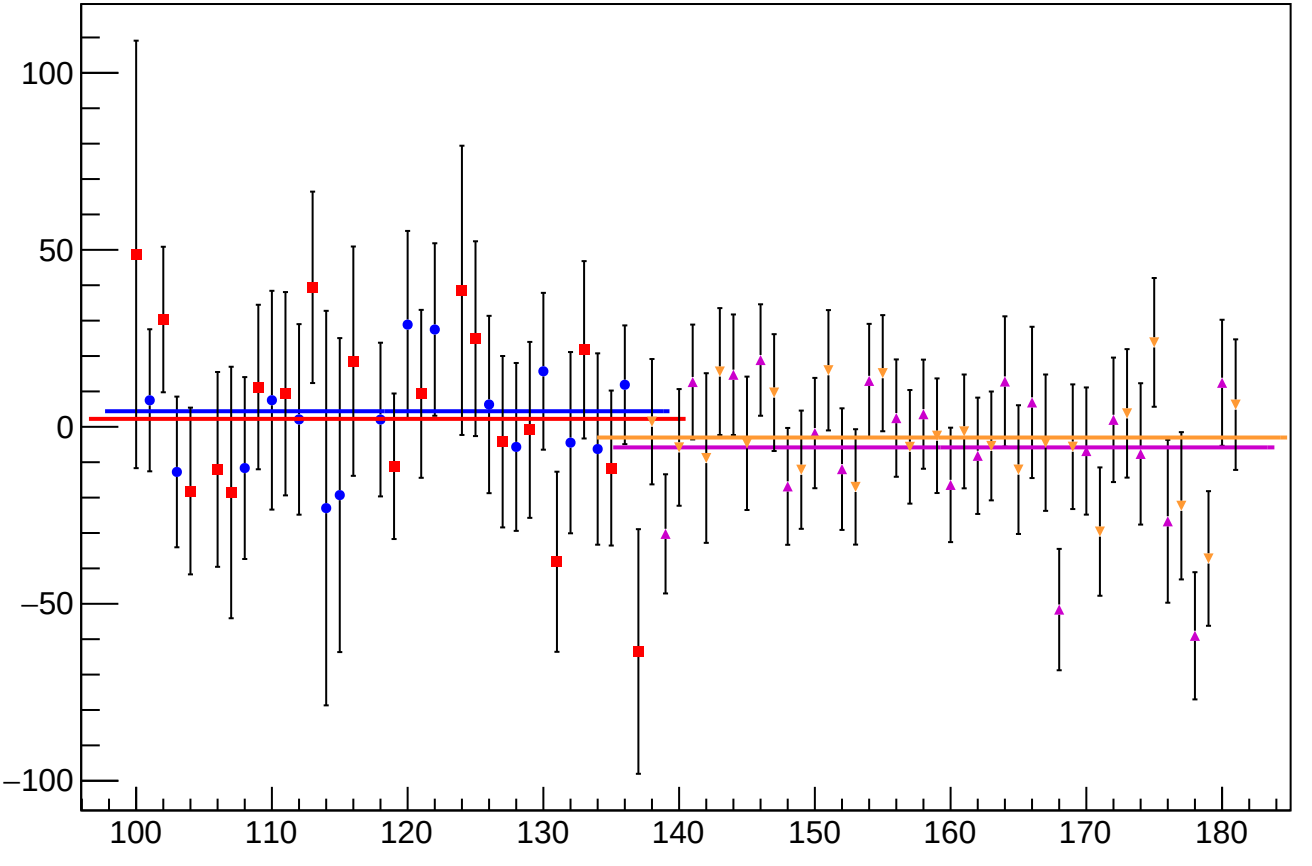
Right: 21.827+/-0.004 $\chi^2$/NDF: 38391.5/34

In: 21.749+/-0.003 $\chi^2$/NDF:37924.2/36

Out: 21.784+/-0.003 $\chi^2$/NDF:35115.4/41

All: 21.767+/-0.002 $\chi^2$/NDF: 73104.1/78

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: 4.404+/-6.137 $\chi^2$/NDF: 4.3/15

Left Out: -3.021+/-3.662 $\chi^2$/NDF:14.5/22

Right Out: 2.244+/-6.042 $\chi^2$/NDF: 15.4/18

Left In: -5.813+/-3.760 $\chi^2$/NDF:29.8/20

Left: -4.380+/-2.623 $\chi^2$/NDF: 44.5/43

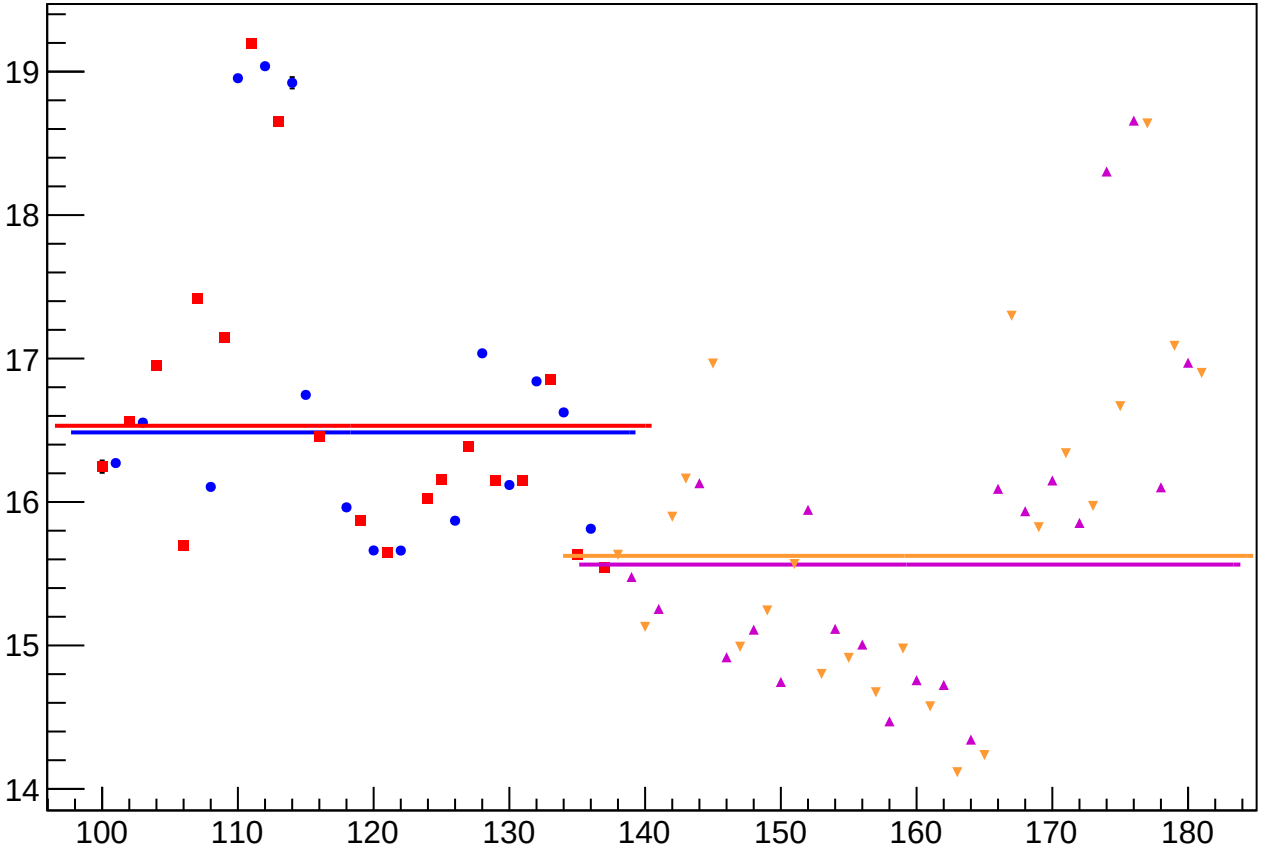
Right: 3.307+/-4.306 $\chi^2$/NDF: 19.7/34

In: -3.025+/-3.206 $\chi^2$/NDF:36.1/36

Out: -1.607+/-3.132 $\chi^2$/NDF:30.4/41

All: -2.299+/-2.240 $\chi^2$/NDF: 66.6/78

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 16.485+/-0.004 $\chi^2$/NDF: 47186.1/15

Left Out: 15.625+/-0.003 $\chi^2$/NDF:165647.6/22

Right Out: 16.531+/-0.004 $\chi^2$/NDF: 46474.0/18

Left In: 15.564+/-0.003 $\chi^2$/NDF:140193.8/20

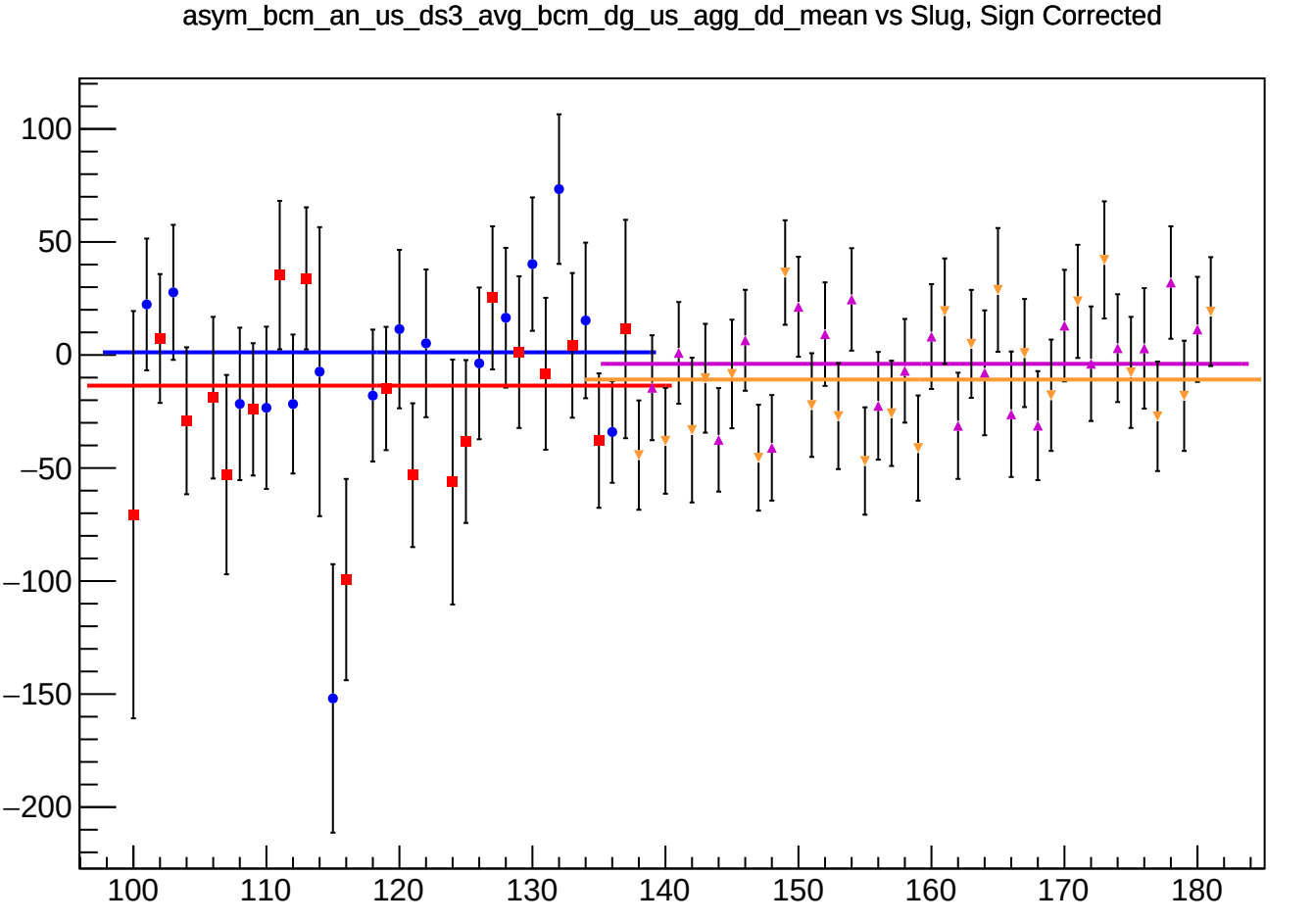
Left: 15.595+/-0.002 $\chi^2$/NDF: 306109.8/43

Right: 16.509+/-0.003 $\chi^2$/NDF: 93717.6/34

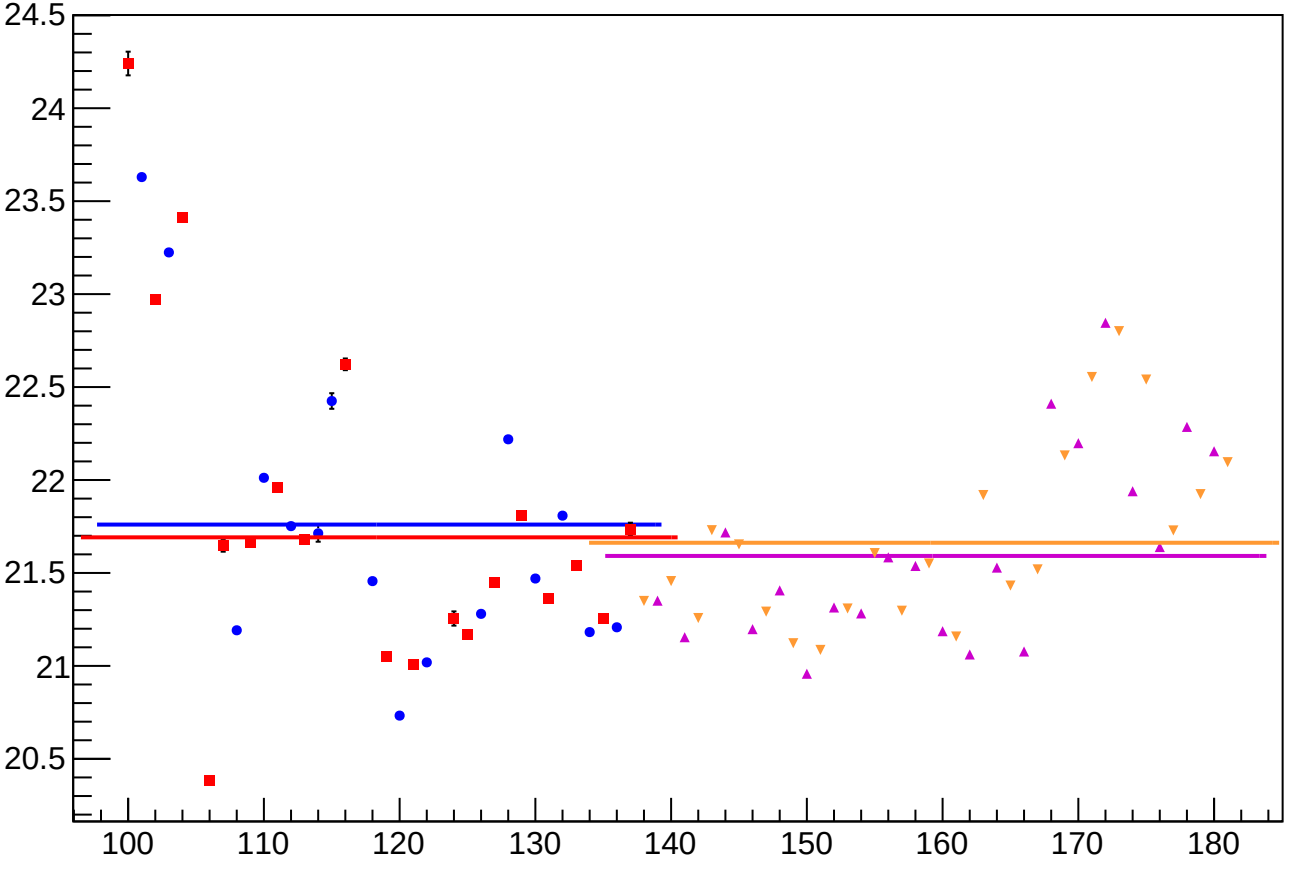
In: 15.815+/-0.002 $\chi^2$/NDF:220152.3/36

Out: 15.868+/-0.002 $\chi^2$/NDF:245060.4/41

All: 15.842+/-0.002 $\chi^2$/NDF: 465491.4/78


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected
100
50
0
−50
−100
−150
−200
100
110
120
130
140
150
160
170
180
Right In: 1.185+/-8.088 χ²/NDF: 19.4/15
Left Out: -10.851+/-5.062 χ²/NDF:28.0/22
Right Out: -13.549+/-7.915 χ²/NDF: 15.9/18
Left In: -3.918+/-5.200 χ²/NDF:15.7/20
Left: -7.478+/-3.627 χ²/NDF: 44.6/43
Right: -6.341+/-5.657 χ²/NDF: 37.0/34
In: -2.425+/-4.374 χ²/NDF:35.4/36
Out: -11.634+/-4.264 χ²/NDF:44.0/41
All: -7.147+/-3.053 χ²/NDF: 81.7/78

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 21.760+/-0.006 $\chi^2$/NDF: 19745.7/15

Left Out: 21.662+/-0.004 $\chi^2$/NDF:16639.2/22

Right Out: 21.692+/-0.006 $\chi^2$/NDF: 18330.7/18

Left In: 21.592+/-0.004 $\chi^2$/NDF:18003.3/20

Left: 21.628+/-0.003 $\chi^2$/NDF: 34833.3/43

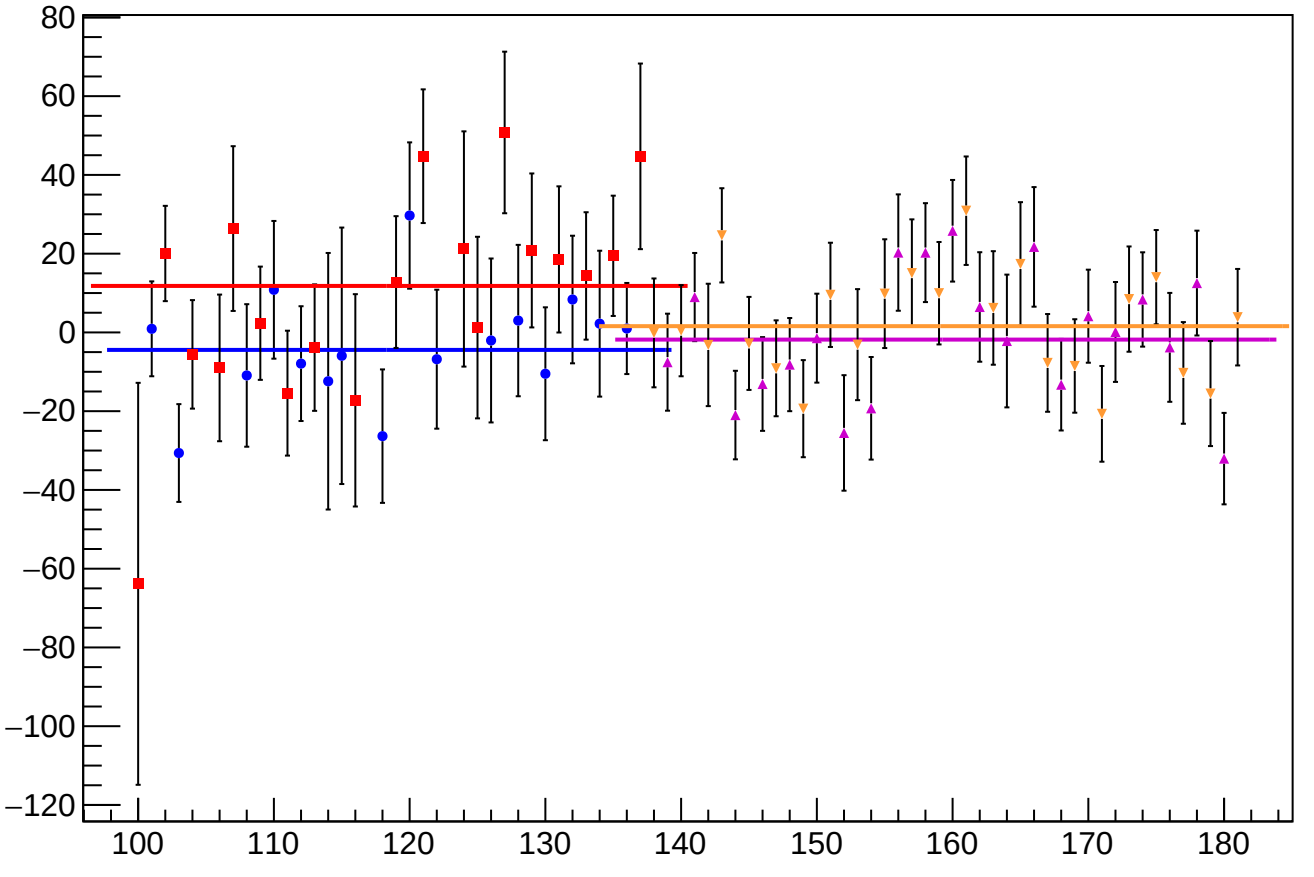
Right: 21.725+/-0.004 $\chi^2$/NDF: 38150.0/34

In: 21.641+/-0.003 $\chi^2$/NDF:38364.6/36

Out: 21.671+/-0.003 $\chi^2$/NDF:34989.1/41

All: 21.656+/-0.002 $\chi^2$/NDF: 73402.0/78

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: -4.440+/-4.131 $\chi^2$/NDF: 12.0/15

Left Out: 1.589+/-2.702 $\chi^2$/NDF:24.0/22

Right Out: 11.807+/-4.097 $\chi^2$/NDF: 21.7/18

Left In: -1.822+/-2.762 $\chi^2$/NDF:32.2/20

Left: -0.079+/-1.932 $\chi^2$/NDF: 57.0/43

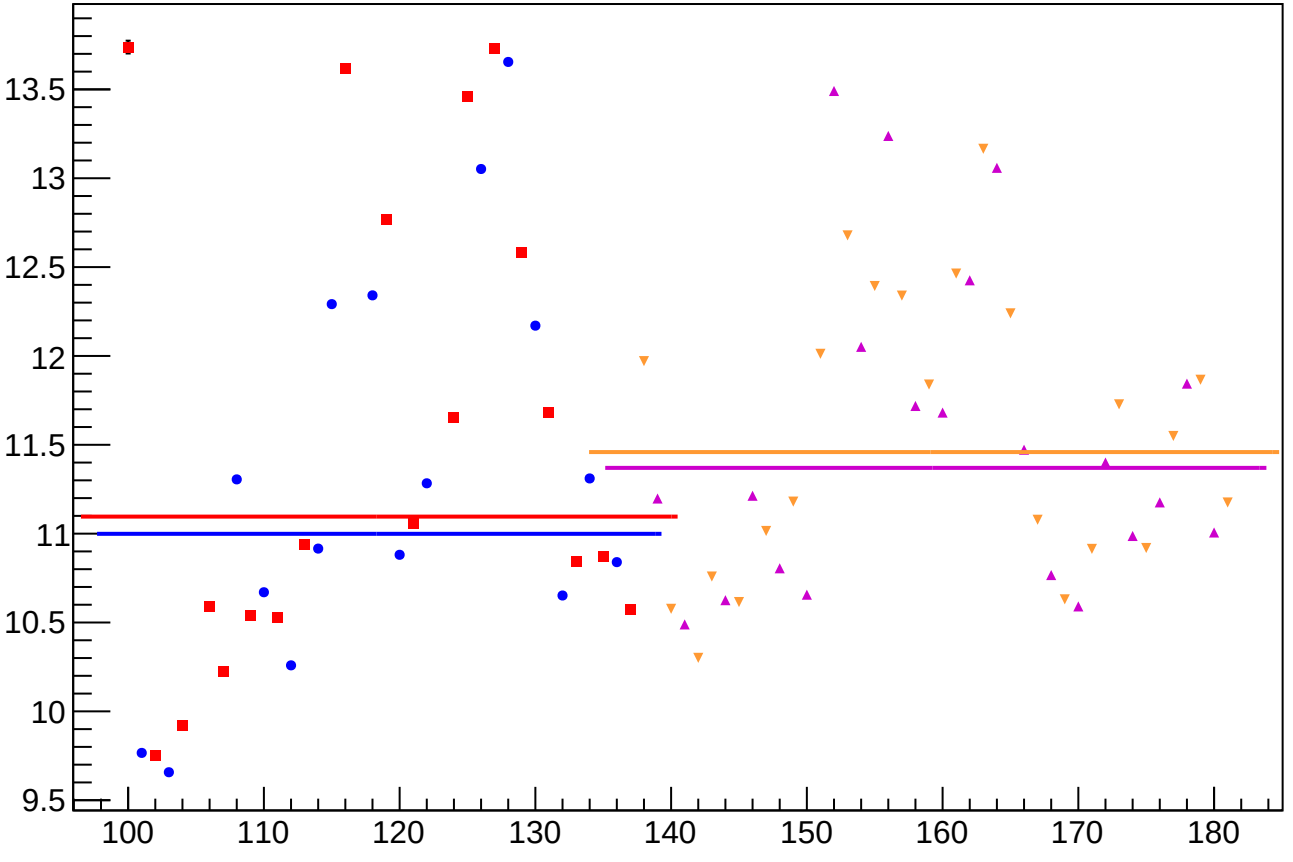
Right: 3.749+/-2.909 $\chi^2$/NDF: 41.5/34

In: -2.631+/-2.296 $\chi^2$/NDF:44.5/36

Out: 4.686+/-2.256 $\chi^2$/NDF:50.1/41

All: 1.092+/-1.609 $\chi^2$/NDF: 99.8/78

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 10.999+/-0.003 $\chi^2$/NDF: 136159.2/15

Left Out: 11.459+/-0.002 $\chi^2$/NDF:151011.9/22

Right Out: 11.096+/-0.003 $\chi^2$/NDF: 162908.7/18

Left In: 11.370+/-0.002 $\chi^2$/NDF:169112.6/20

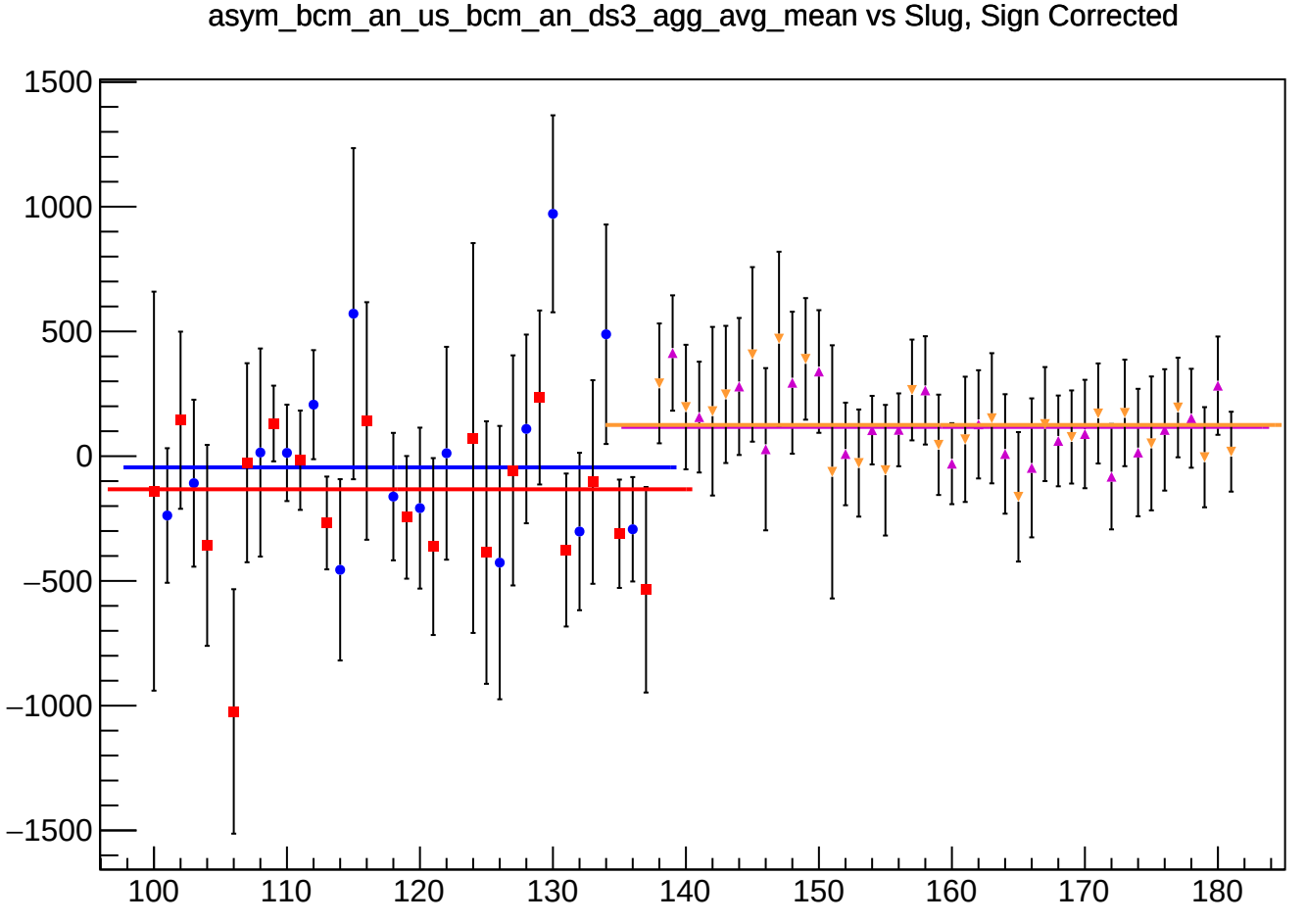
Left: 11.416+/-0.001 $\chi^2$/NDF: 321184.4/43

Right: 11.048+/-0.002 $\chi^2$/NDF: 299622.8/34

In: 11.255+/-0.002 $\chi^2$/NDF:316425.4/36

Out: 11.349+/-0.002 $\chi^2$/NDF:324868.8/41

All: 11.303+/-0.001 $\chi^2$/NDF: 642983.6/78




Right In: -44.797+/-76.424 $\chi^2$/NDF: 15.4/15

Left Out: 125.039+/-48.743 $\chi^2$/NDF:7.9/22

Right Out: -132.730+/-68.270 $\chi^2$/NDF: 12.9/18

Left In: 117.331+/-45.543 $\chi^2$/NDF:7.3/20

Left: 120.924+/-33.278 $\chi^2$/NDF: 15.2/43

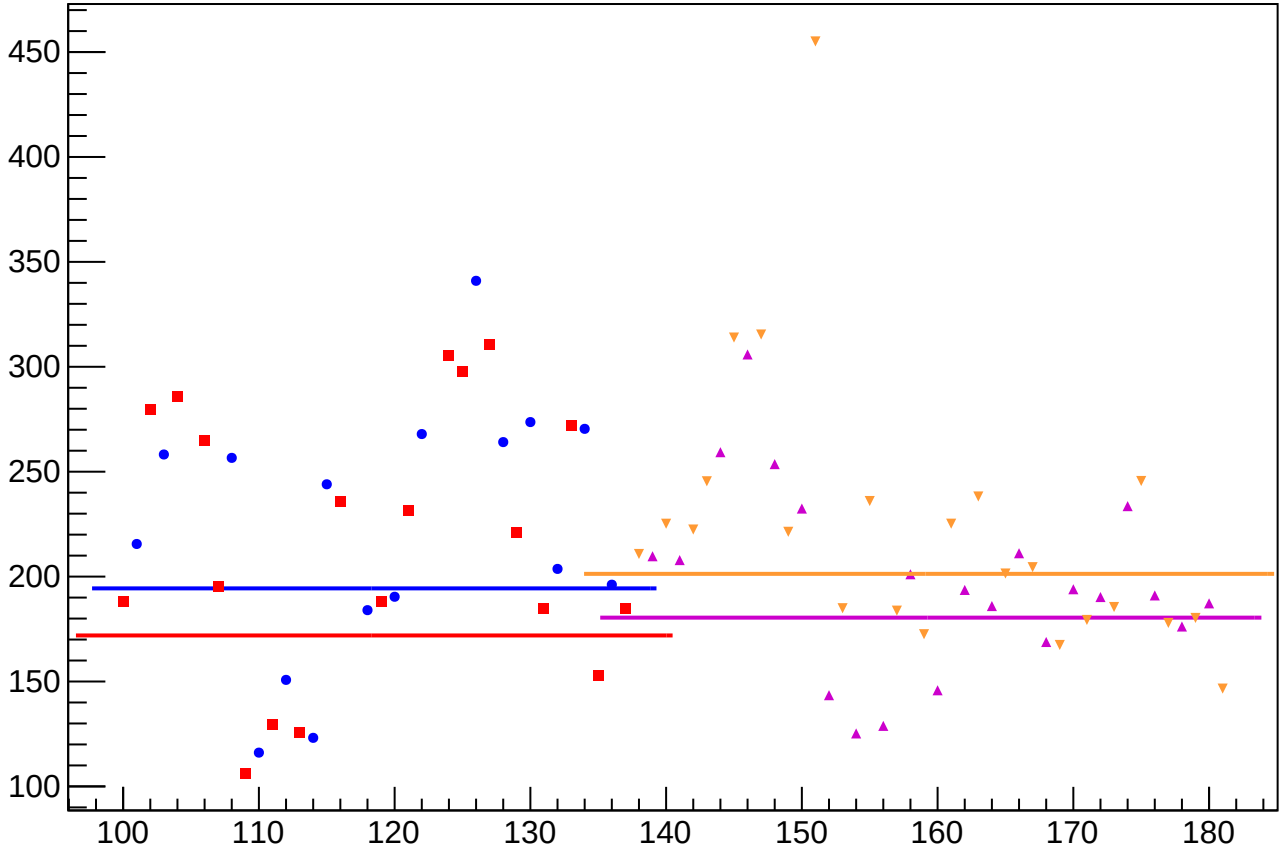
Right: -93.703+/-50.914 $\chi^2$/NDF: 29.0/34

In: 74.843+/-39.123 $\chi^2$/NDF:26.1/36

Out: 38.004+/-39.670 $\chi^2$/NDF:30.2/41

All: 56.679+/-27.855 $\chi^2$/NDF: 56.7/78

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected




Right In: 194.385+/-0.054 $\chi^2$/NDF: 1042024.1/15

Left Out: 201.308+/-0.034 $\chi^2$/NDF:1615284.1/22

Right Out: 171.949+/-0.048 $\chi^2$/NDF: 1651343.7/18

Left In: 180.440+/-0.032 $\chi^2$/NDF:1639362.3/20

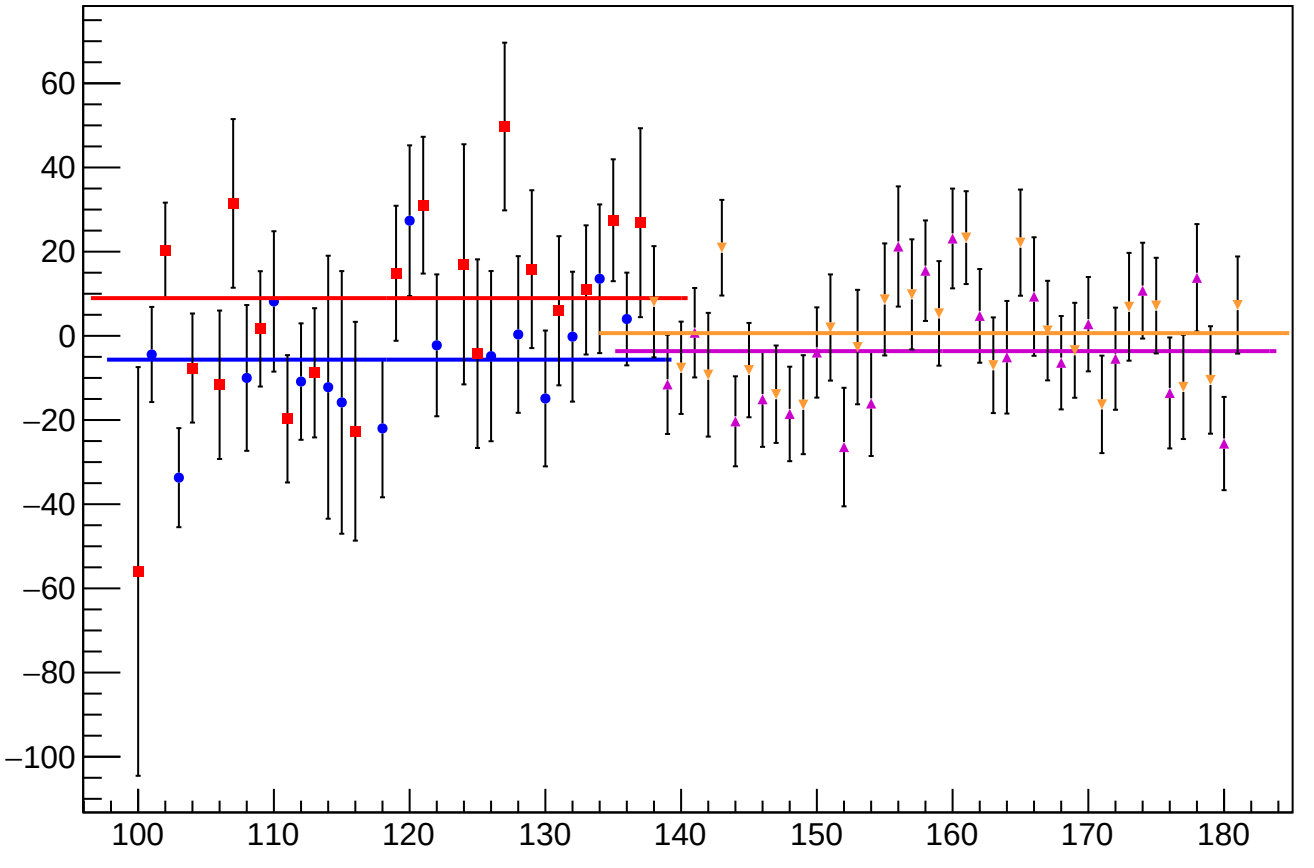
Left: 190.166+/-0.024 $\chi^2$/NDF: 3450367.7/43

Right: 181.907+/-0.036 $\chi^2$/NDF: 2789239.1/34

In: 184.094+/-0.028 $\chi^2$/NDF:2730529.4/36

Out: 191.395+/-0.028 $\chi^2$/NDF:3511618.4/41

All: 187.694+/-0.020 $\chi^2$/NDF: 6276487.5/78




Right In: -5.657+/-3.939 $\chi^2$/NDF: 13.7/15

Left Out: 0.645+/-2.520 $\chi^2$/NDF:22.5/22

Right Out: 8.960+/-3.901 $\chi^2$/NDF: 22.8/18

Left In: -3.632+/-2.590 $\chi^2$/NDF:29.9/20

Left: -1.435+/-1.806 $\chi^2$/NDF: 53.8/43

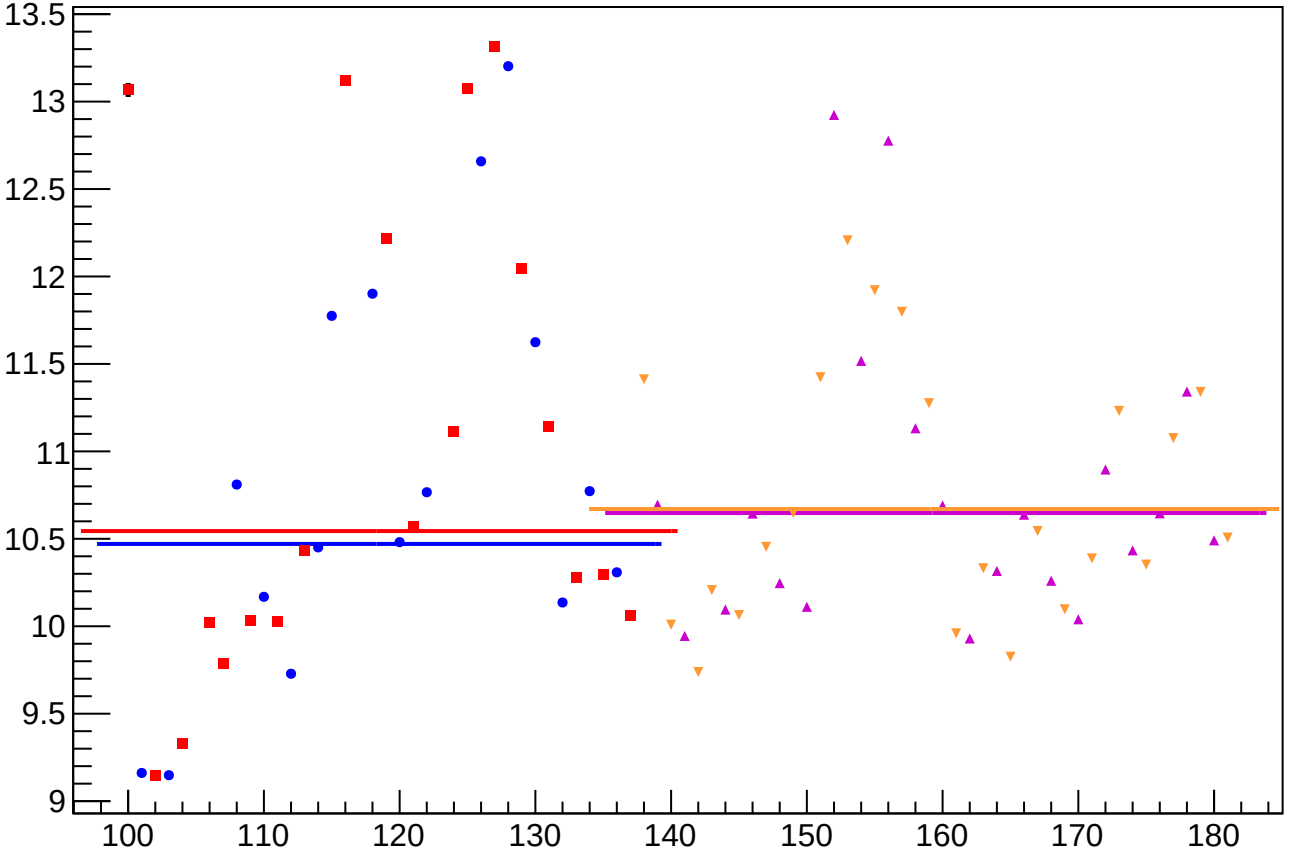
Right: 1.723+/-2.772 $\chi^2$/NDF: 43.4/34

In: -4.243+/-2.164 $\chi^2$/NDF:43.8/36

Out: 3.093+/-2.117 $\chi^2$/NDF:48.5/41

All: -0.494+/-1.513 $\chi^2$/NDF: 98.1/78

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected




Right In: 10.471+/-0.003 $\chi^2$/NDF: 157365.8/15

Left Out: 10.671+/-0.002 $\chi^2$/NDF:140550.1/22

Right Out: 10.544+/-0.003 $\chi^2$/NDF: 186780.3/18

Left In: 10.647+/-0.002 $\chi^2$/NDF:157126.8/20

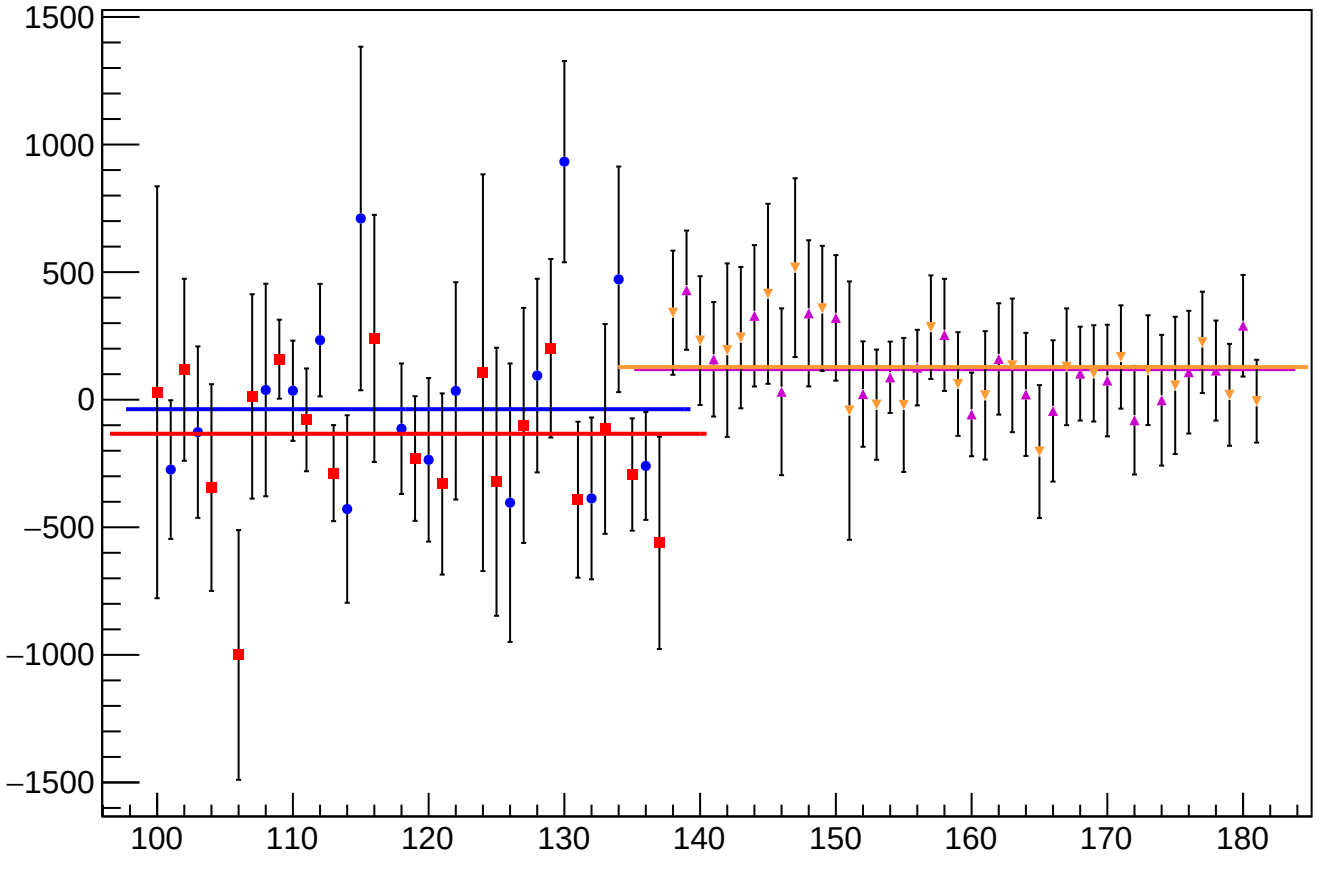
Left: 10.659+/-0.001 $\chi^2$/NDF: 297759.4/43

Right: 10.508+/-0.002 $\chi^2$/NDF: 344500.1/34

In: 10.594+/-0.002 $\chi^2$/NDF:317305.8/36

Out: 10.633+/-0.001 $\chi^2$/NDF:328808.7/41

All: 10.614+/-0.001 $\chi^2$/NDF: 646453.3/78




Right In: -37.241+/-76.915 $\chi^2$/NDF: 15.6/15

Left Out: 127.851+/-49.031 $\chi^2$/NDF:8.7/22

Right Out: -133.386+/-68.885 $\chi^2$/NDF: 12.9/18

Left In: 119.965+/-45.891 $\chi^2$/NDF:7.9/20

Left: 123.648+/-33.505 $\chi^2$/NDF: 16.6/43

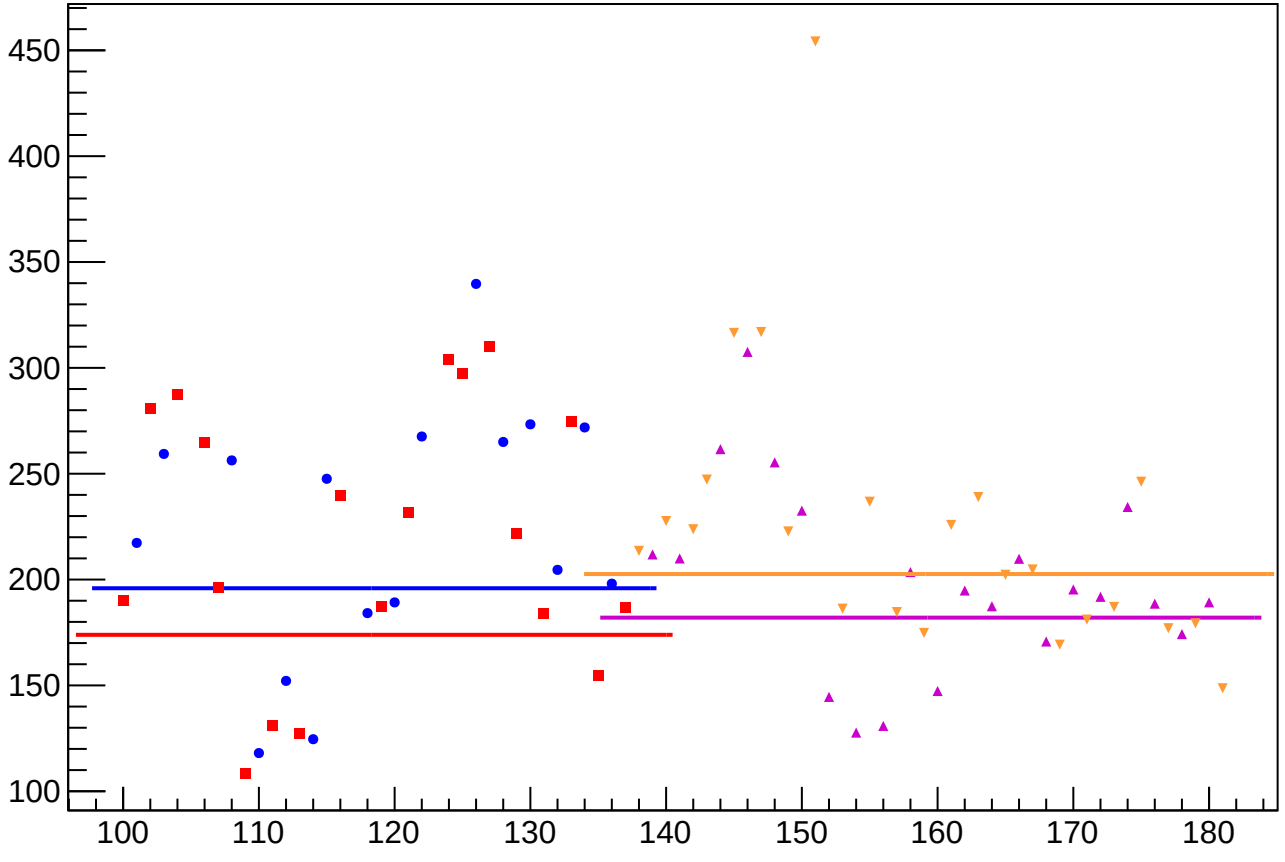
Right: -90.593+/-51.314 $\chi^2$/NDF: 29.4/34

In: 78.693+/-39.410 $\chi^2$/NDF:26.7/36

Out: 40.007+/-39.945 $\chi^2$/NDF:31.1/41

All: 59.611+/-28.054 $\chi^2$/NDF: 58.3/78

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 195.900+/-0.054 $\chi^2$/NDF: 1011012.3/15

Left Out: 202.608+/-0.035 $\chi^2$/NDF:1596286.9/22

Right Out: 173.901+/-0.049 $\chi^2$/NDF: 1599608.1/18

Left In: 182.012+/-0.032 $\chi^2$/NDF:1591040.5/20

Left: 191.630+/-0.024 $\chi^2$/NDF: 3375433.2/43

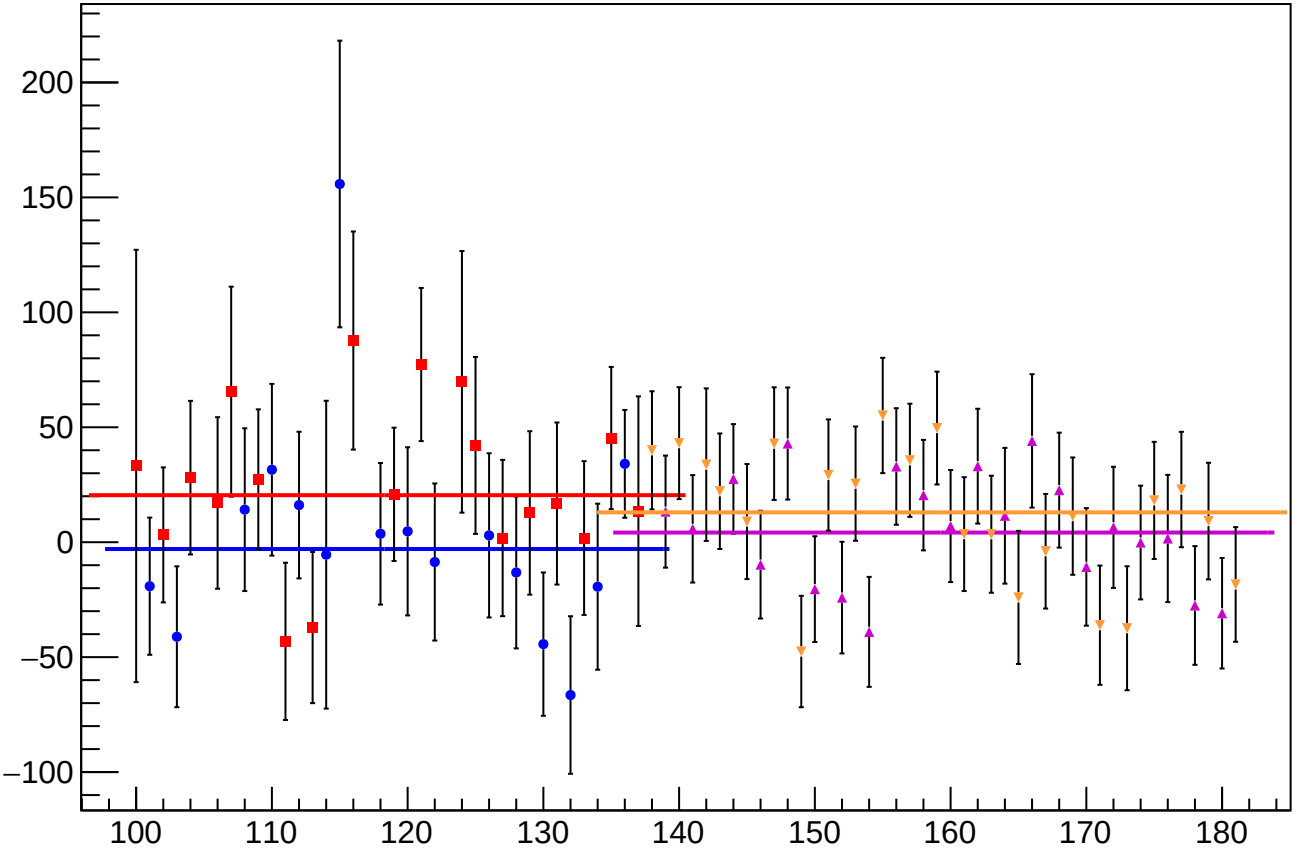
Right: 183.693+/-0.036 $\chi^2$/NDF: 2701402.5/34

In: 185.658+/-0.028 $\chi^2$/NDF:2650135.6/36

Out: 192.955+/-0.028 $\chi^2$/NDF:3426427.2/41

All: 189.257+/-0.020 $\chi^2$/NDF: 6110382.1/78

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: -2.967+/-8.454 $\chi^2$/NDF: 17.9/15

Left Out: 12.980+/-5.304 $\chi^2$/NDF:28.8/22

Right Out: 20.457+/-8.292 $\chi^2$/NDF: 15.3/18

Left In: 4.204+/-5.442 $\chi^2$/NDF:19.4/20

Left: 8.705+/-3.798 $\chi^2$/NDF: 49.5/43

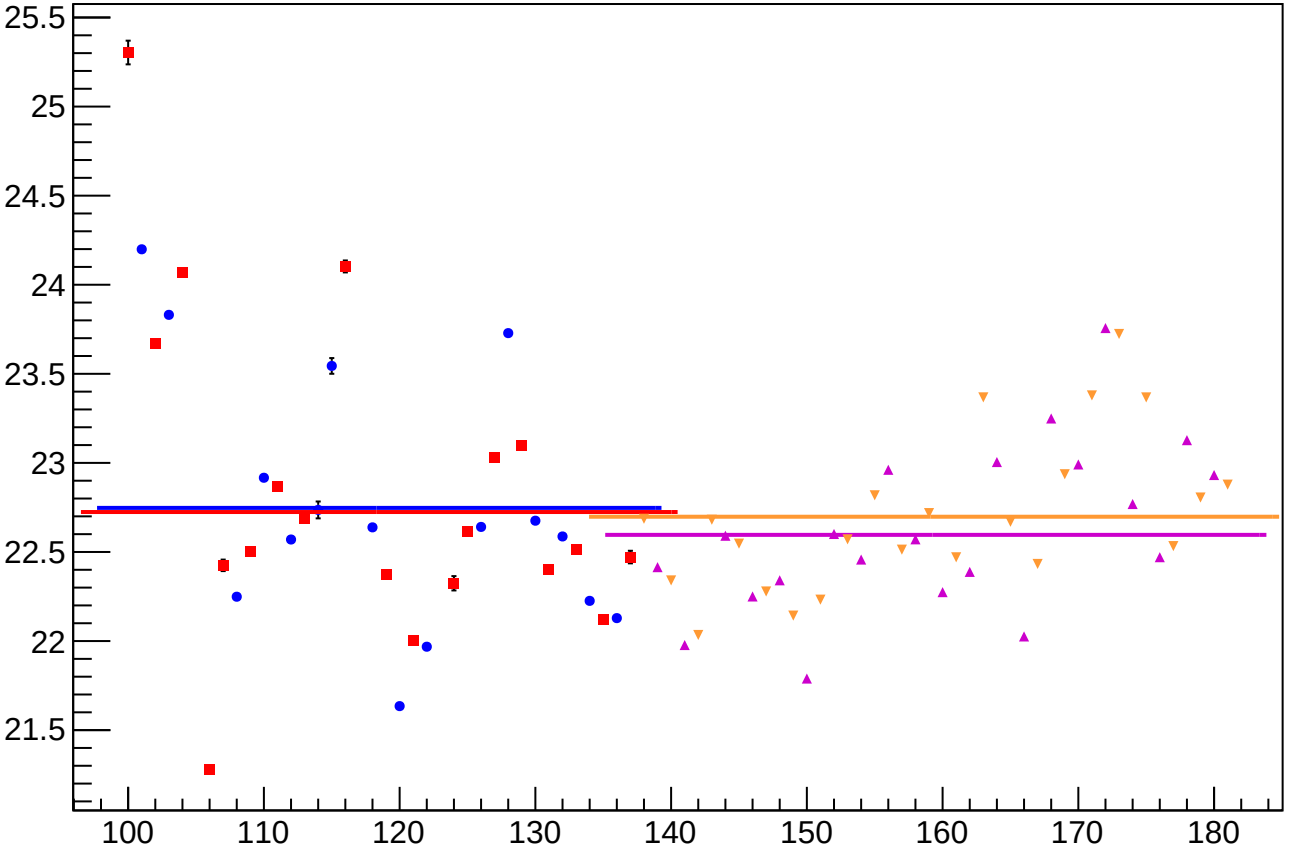
Right: 8.972+/-5.920 $\chi^2$/NDF: 37.1/34

In: 2.103+/-4.576 $\chi^2$/NDF:37.8/36

Out: 15.151+/-4.468 $\chi^2$/NDF:44.6/41

All: 8.783+/-3.197 $\chi^2$/NDF: 86.6/78

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 22.747+/-0.006 $\chi^2$/NDF: 14622.8/15

Left Out: 22.698+/-0.004 $\chi^2$/NDF:11731.0/22

Right Out: 22.724+/-0.006 $\chi^2$/NDF: 14490.6/18

Left In: 22.596+/-0.004 $\chi^2$/NDF:13851.7/20

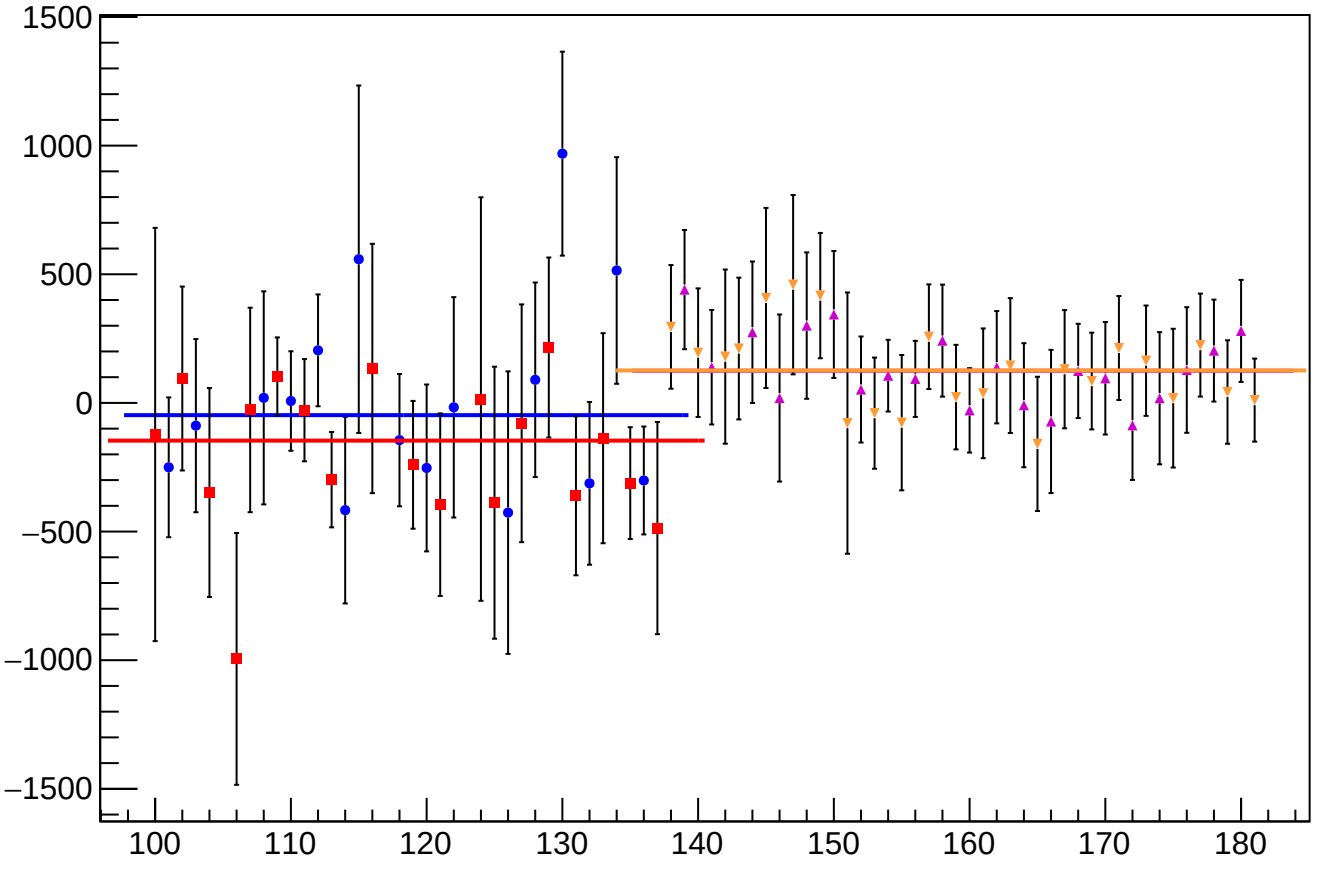
Left: 22.648+/-0.003 $\chi^2$/NDF: 25941.7/43

Right: 22.736+/-0.004 $\chi^2$/NDF: 29121.1/34

In: 22.640+/-0.003 $\chi^2$/NDF:28928.1/36

Out: 22.706+/-0.003 $\chi^2$/NDF:26236.0/41

All: 22.674+/-0.002 $\chi^2$/NDF: 55371.4/78




Right In: -47.523+/-76.571 $\chi^2$/NDF: 15.4/15

Left Out: 126.180+/-48.973 $\chi^2$/NDF:8.4/22

Right Out: -146.573+/-68.398 $\chi^2$/NDF: 11.6/18

Left In: 124.938+/-45.831 $\chi^2$/NDF:7.6/20

Left: 125.518+/-33.463 $\chi^2$/NDF: 15.9/43

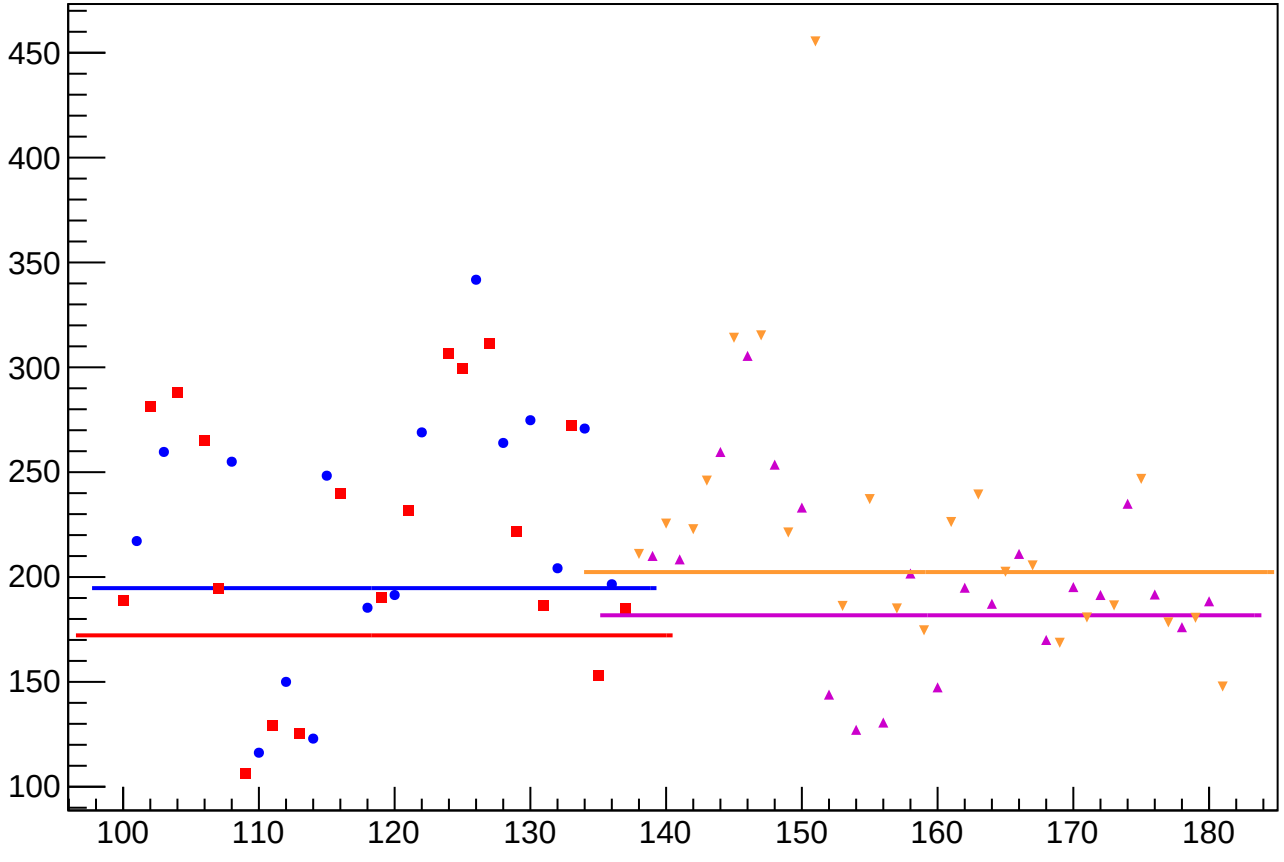
Right: -102.614+/-51.010 $\chi^2$/NDF: 27.9/34

In: 79.450+/-39.325 $\chi^2$/NDF:26.7/36

Out: 33.741+/-39.819 $\chi^2$/NDF:30.5/41

All: 56.881+/-27.980 $\chi^2$/NDF: 57.8/78

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 194.708+/-0.054 $\chi^2$/NDF: 1052288.9/15

Left Out: 202.367+/-0.035 $\chi^2$/NDF:1589220.5/22

Right Out: 172.186+/-0.048 $\chi^2$/NDF: 1671068.3/18

Left In: 181.759+/-0.032 $\chi^2$/NDF:1584647.7/20

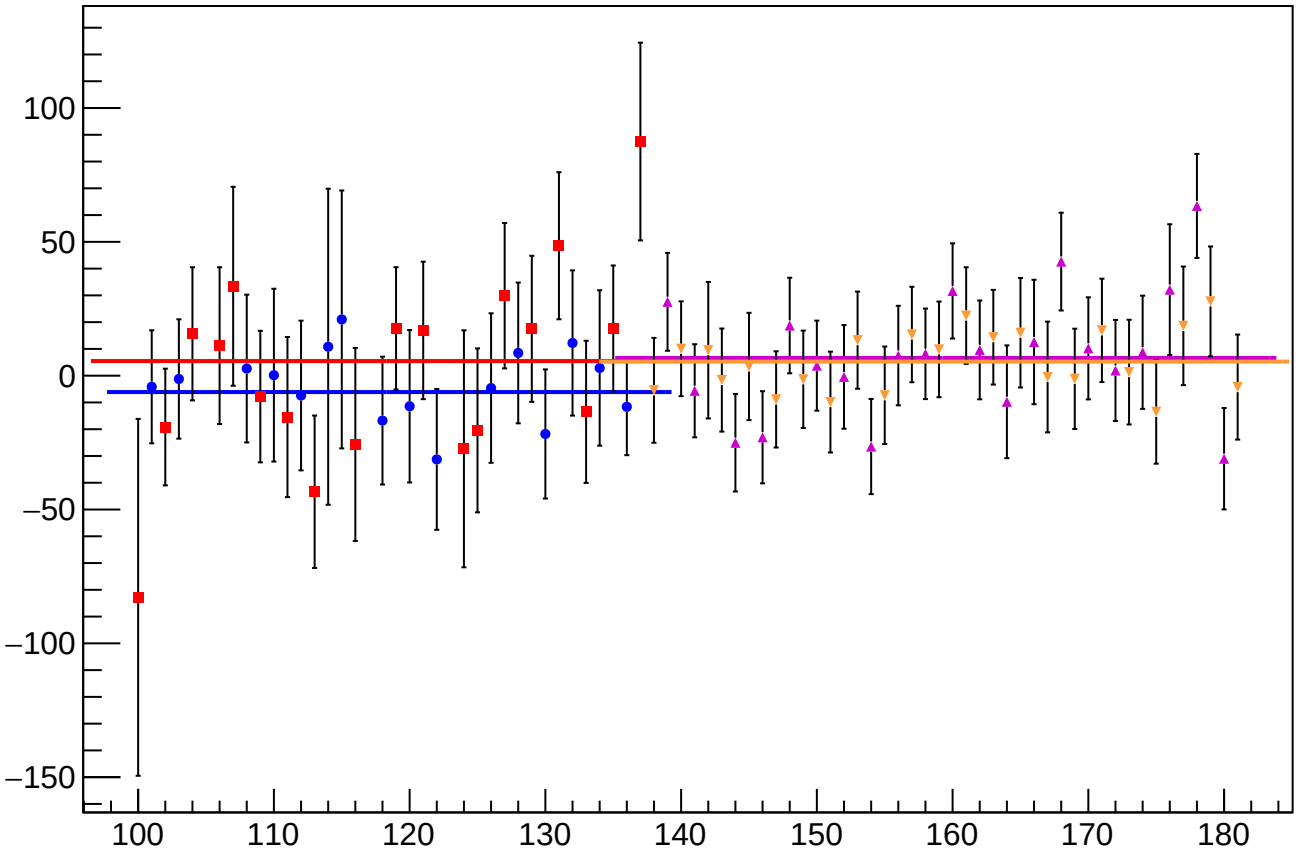
Left: 191.381+/-0.024 $\chi^2$/NDF: 3362674.3/43

Right: 182.181+/-0.036 $\chi^2$/NDF: 2819594.0/34

In: 185.174+/-0.028 $\chi^2$/NDF:2679048.0/36

Out: 192.138+/-0.028 $\chi^2$/NDF:3517726.8/41

All: 188.613+/-0.020 $\chi^2$/NDF: 6227745.2/78




Right In: -6.119+/-6.592 $\chi^2$/NDF: 3.1/15

Left Out: 5.257+/-3.997 $\chi^2$/NDF:7.8/22

Right Out: 5.470+/-6.509 $\chi^2$/NDF: 19.2/18

Left In: 6.604+/-4.093 $\chi^2$/NDF:32.2/20

Left: 5.914+/-2.860 $\chi^2$/NDF: 40.0/43

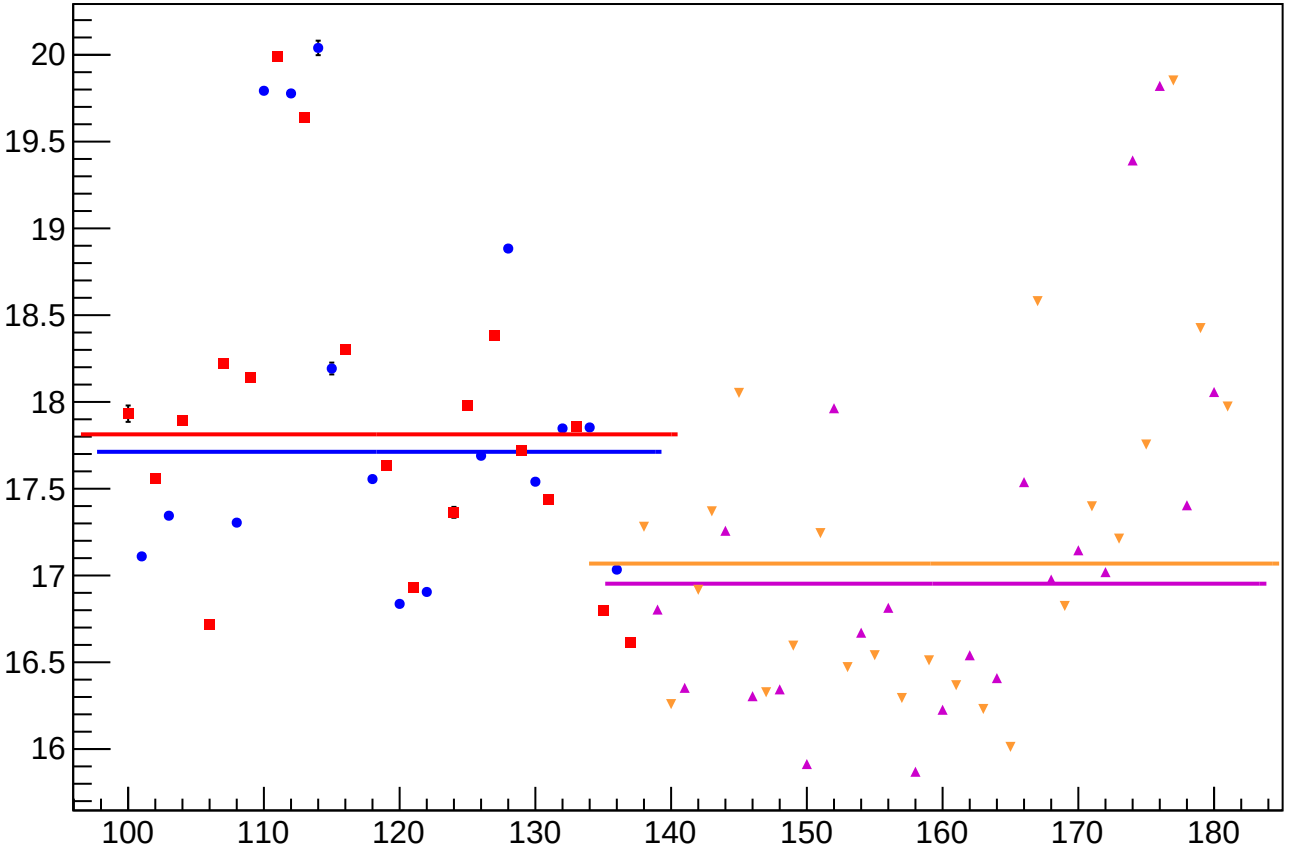
Right: -0.251+/-4.632 $\chi^2$/NDF: 23.9/34

In: 3.064+/-3.477 $\chi^2$/NDF:38.0/36

Out: 5.315+/-3.406 $\chi^2$/NDF:27.0/41

All: 4.213+/-2.433 $\chi^2$/NDF: 65.2/78

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 17.713+/-0.005 $\chi^2$/NDF: 35983.5/15

Left Out: 17.069+/-0.003 $\chi^2$/NDF:95921.1/22

Right Out: 17.813+/-0.005 $\chi^2$/NDF: 32713.6/18

Left In: 16.953+/-0.003 $\chi^2$/NDF:99353.8/20

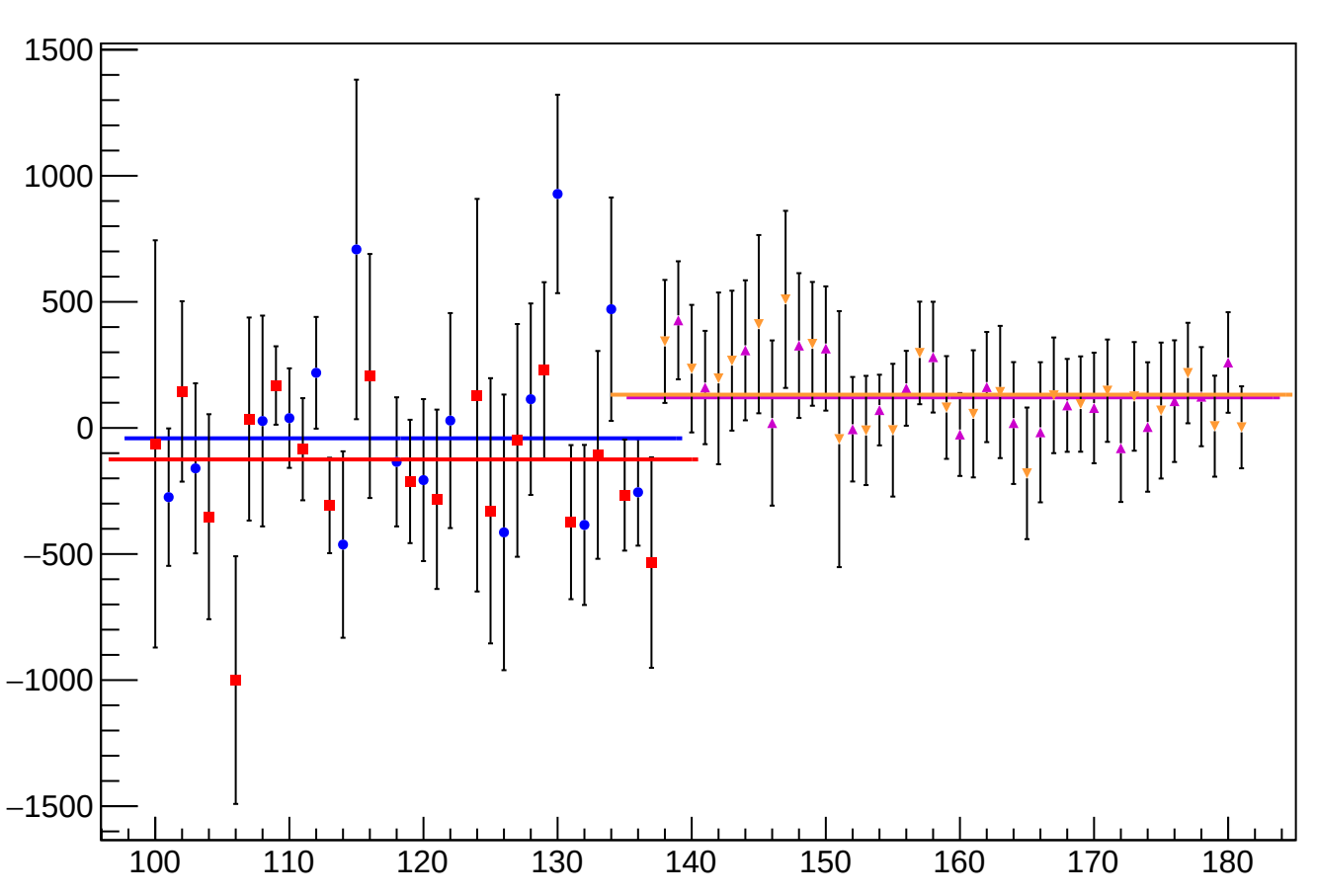
Left: 17.012+/-0.002 $\chi^2$/NDF: 196095.7/43

Right: 17.764+/-0.003 $\chi^2$/NDF: 68933.0/34

In: 17.164+/-0.002 $\chi^2$/NDF:154516.3/36

Out: 17.273+/-0.002 $\chi^2$/NDF:147641.0/41

All: 17.220+/-0.002 $\chi^2$/NDF: 303148.3/78




Right In: -41.114+/-77.139 $\chi^2$/NDF: 15.6/15

Left Out: 131.847+/-49.140 $\chi^2$/NDF:8.0/22

Right Out: -124.872+/-69.109 $\chi^2$/NDF: 12.9/18

Left In: 121.431+/-45.984 $\chi^2$/NDF:7.4/20

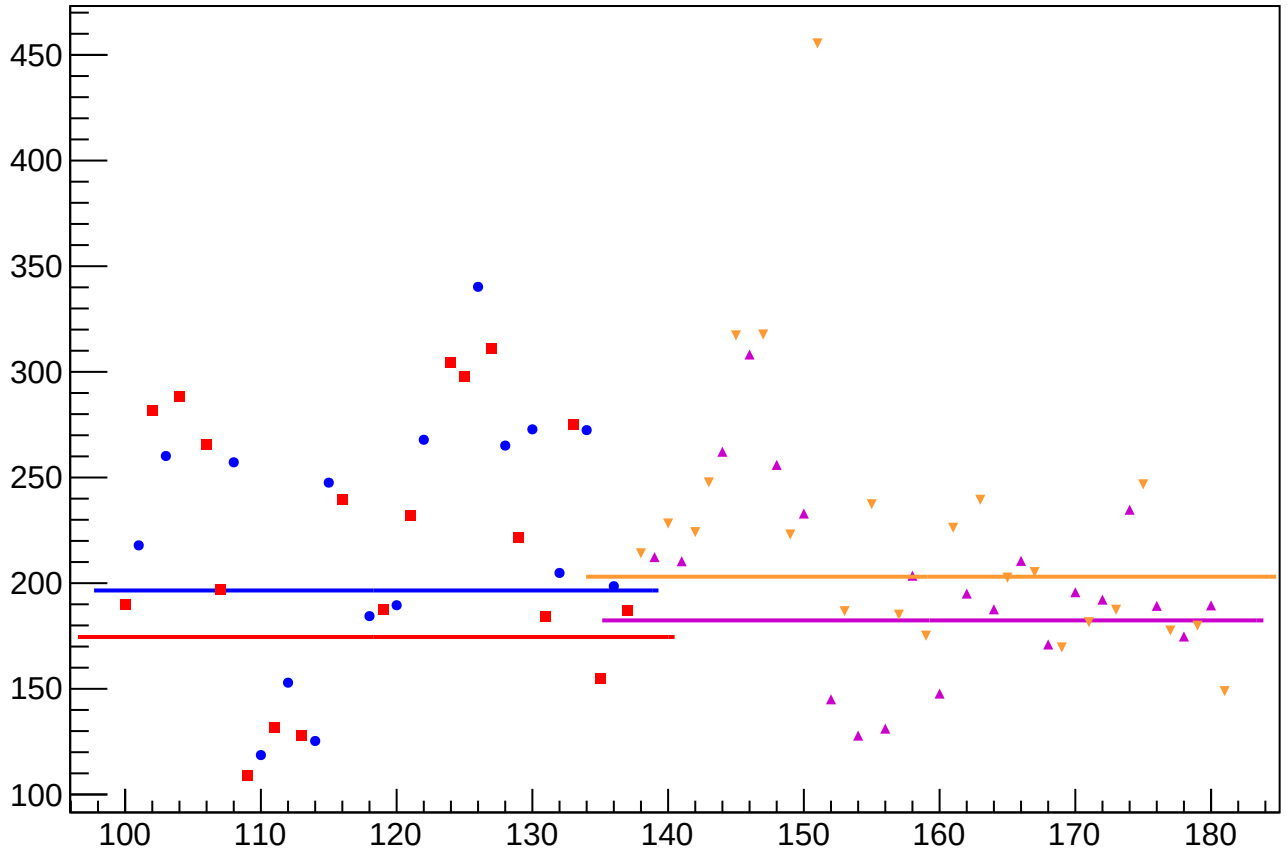
Left: 126.294+/-33.576 $\chi^2$/NDF: 15.5/43

Right: -87.579+/-51.473 $\chi^2$/NDF: 29.1/34

In: 78.813+/-39.498 $\chi^2$/NDF:26.3/36

Out: 45.637+/-40.048 $\chi^2$/NDF:30.1/41

All: 62.454+/-28.122 $\chi^2$/NDF: 56.7/78




Right In: 196.542+/-0.055 $\chi^2$/NDF: 1000770.4/15

Left Out: 203.059+/-0.035 $\chi^2$/NDF:1596554.8/22

Right Out: 174.540+/-0.049 $\chi^2$/NDF: 1588725.2/18

Left In: 182.380+/-0.033 $\chi^2$/NDF:1590948.1/20

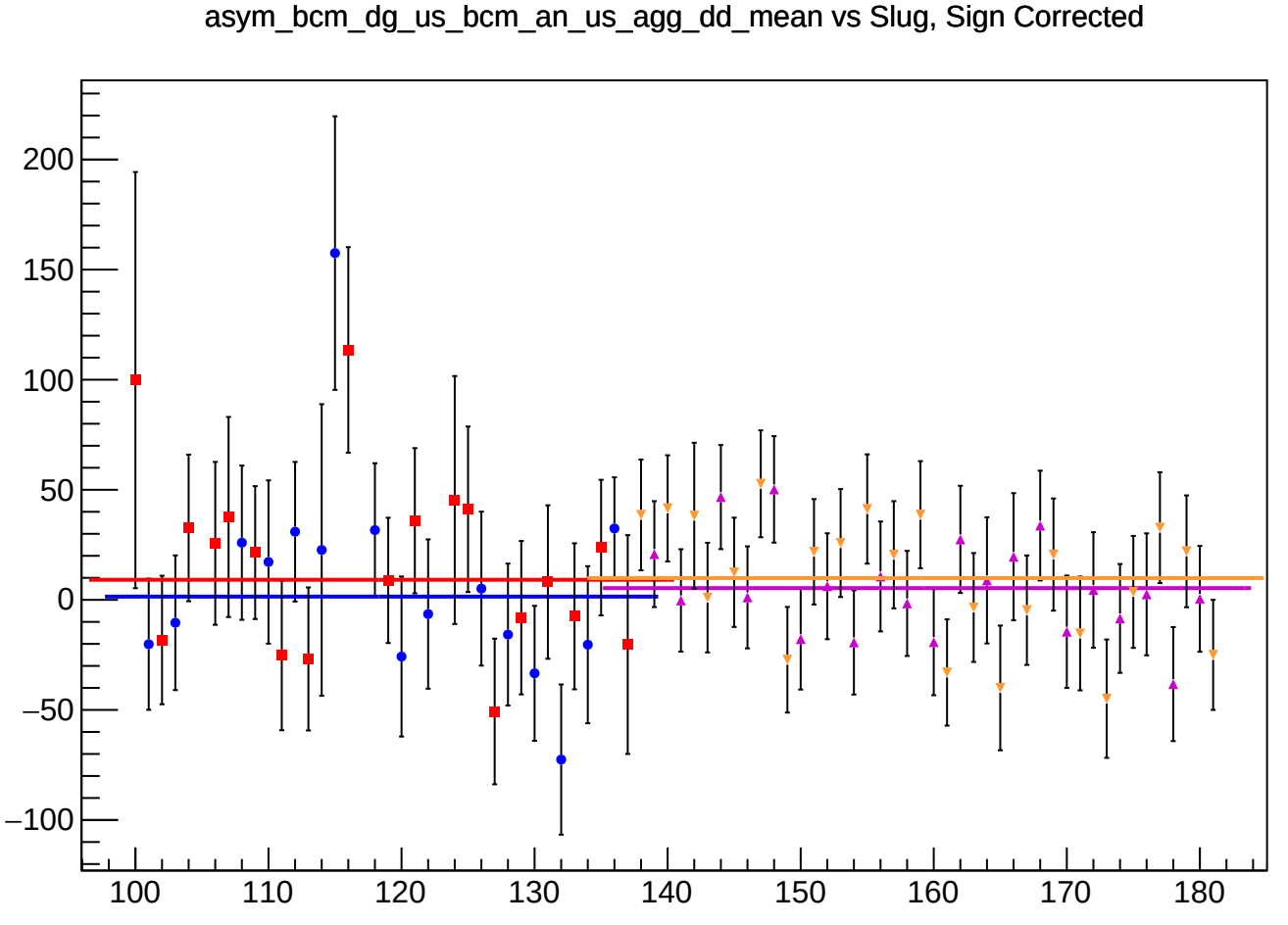
Left: 192.034+/-0.024 $\chi^2$/NDF: 3376330.0/43

Right: 184.337+/-0.036 $\chi^2$/NDF: 2679758.7/34

In: 186.093+/-0.028 $\chi^2$/NDF:2641457.4/36

Out: 193.482+/-0.028 $\chi^2$/NDF:3411498.0/41

All: 189.736+/-0.020 $\chi^2$/NDF: 6087465.4/78




Right In: 1.475+/-8.370 $\chi^2$/NDF: 18.7/15

Left Out: 9.892+/-5.256 $\chi^2$/NDF:28.5/22

Right Out: 9.113+/-8.198 $\chi^2$/NDF: 16.5/18

Left In: 5.326+/-5.399 $\chi^2$/NDF:16.5/20

Left: 7.671+/-3.766 $\chi^2$/NDF: 45.3/43

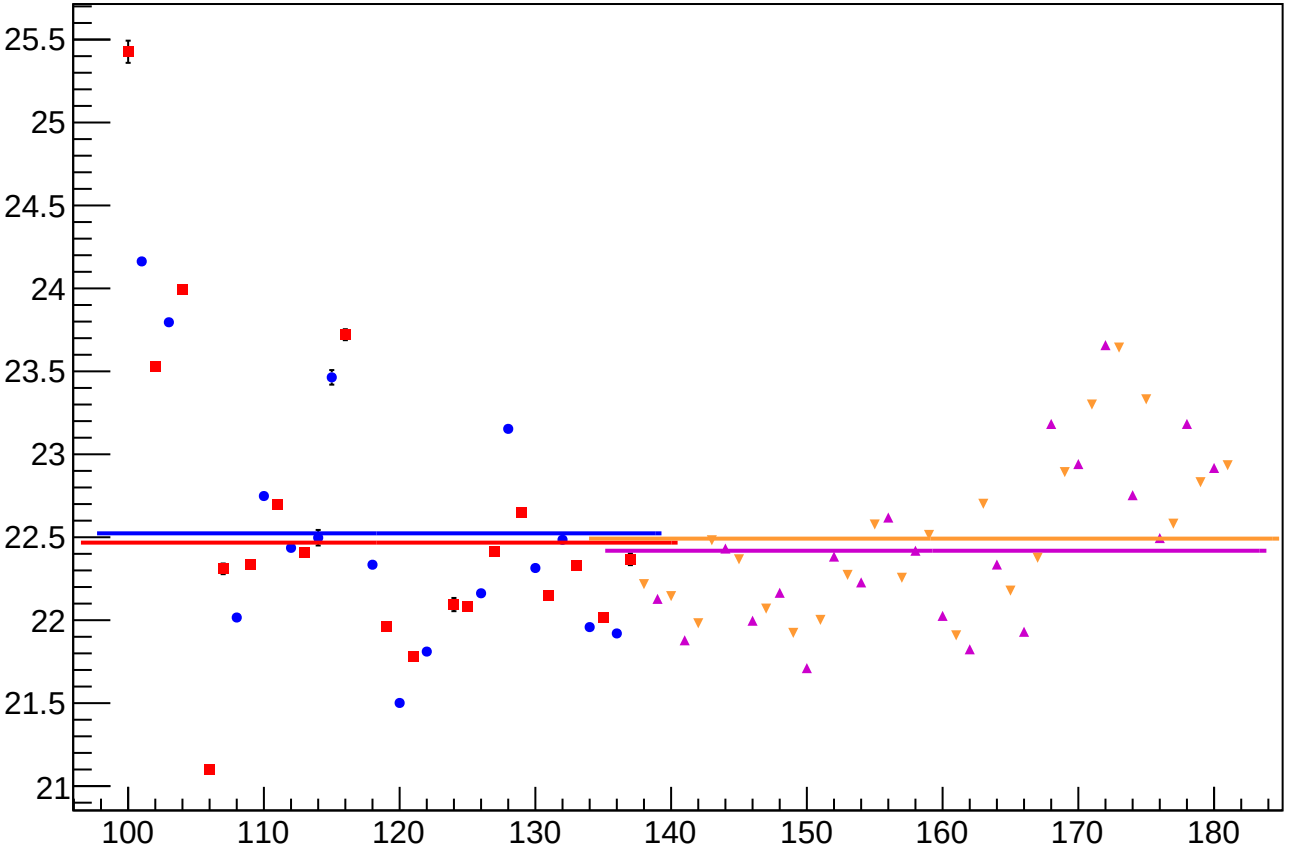
Right: 5.374+/-5.857 $\chi^2$/NDF: 35.6/34

In: 4.194+/-4.537 $\chi^2$/NDF:35.3/36

Out: 9.665+/-4.424 $\chi^2$/NDF:45.0/41

All: 6.999+/-3.168 $\chi^2$/NDF: 81.0/78

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 22.524+/-0.006 $\chi^2$/NDF: 15947.8/15

Left Out: 22.492+/-0.004 $\chi^2$/NDF:15024.5/22

Right Out: 22.468+/-0.006 $\chi^2$/NDF: 15626.5/18

Left In: 22.419+/-0.004 $\chi^2$/NDF:16899.6/20

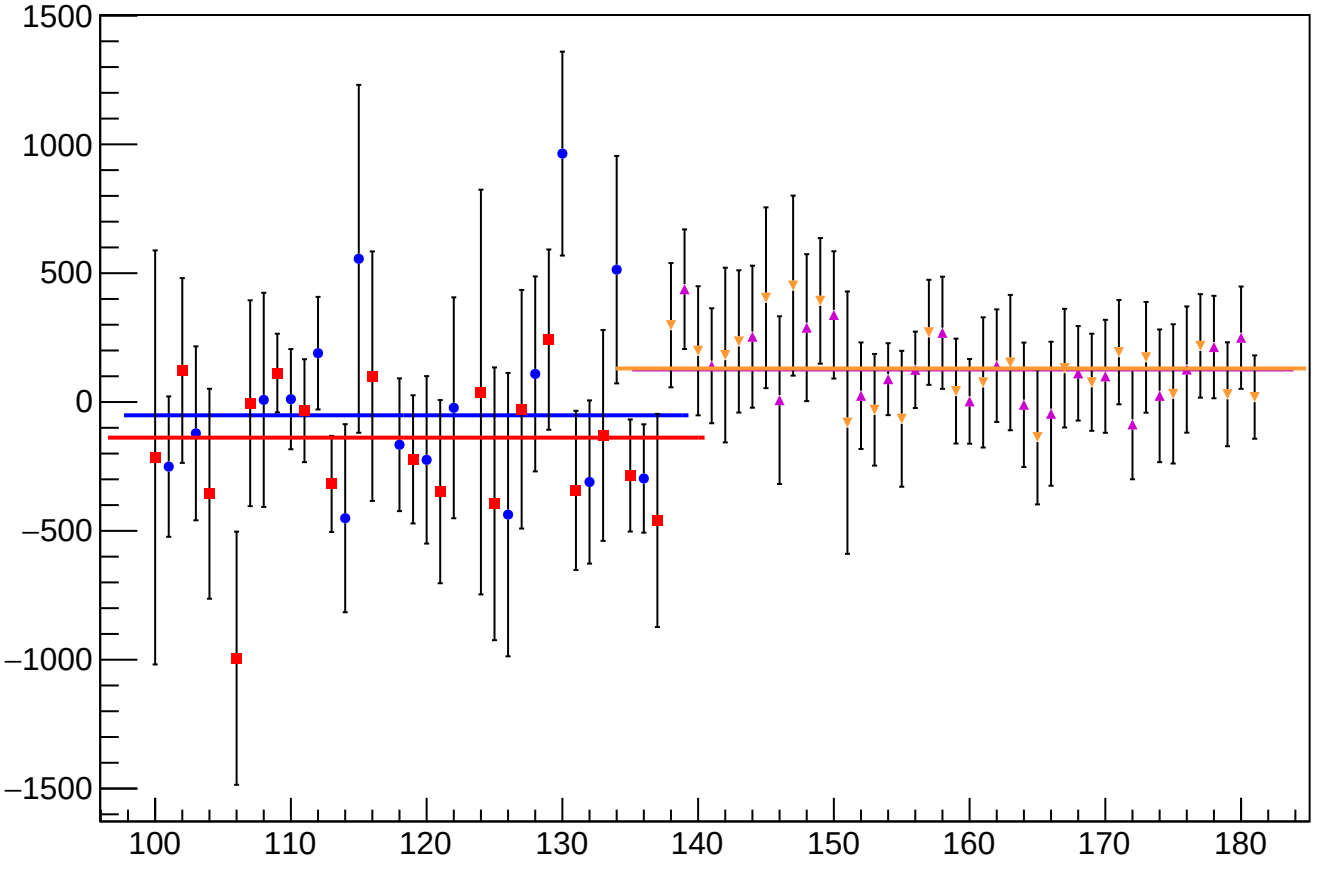
Left: 22.456+/-0.003 $\chi^2$/NDF: 32112.4/43

Right: 22.495+/-0.004 $\chi^2$/NDF: 31619.9/34

In: 22.449+/-0.003 $\chi^2$/NDF:33069.3/36

Out: 22.485+/-0.003 $\chi^2$/NDF:30663.3/41

All: 22.468+/-0.002 $\chi^2$/NDF: 63794.4/78




Right In: -51.492+/-76.798 $\chi^2$/NDF: 15.3/15

Left Out: 130.267+/-49.083 $\chi^2$/NDF:7.6/22

Right Out: -138.184+/-68.625 $\chi^2$/NDF: 11.6/18

Left In: 126.321+/-45.923 $\chi^2$/NDF:7.0/20

Left: 128.163+/-33.534 $\chi^2$/NDF: 14.6/43

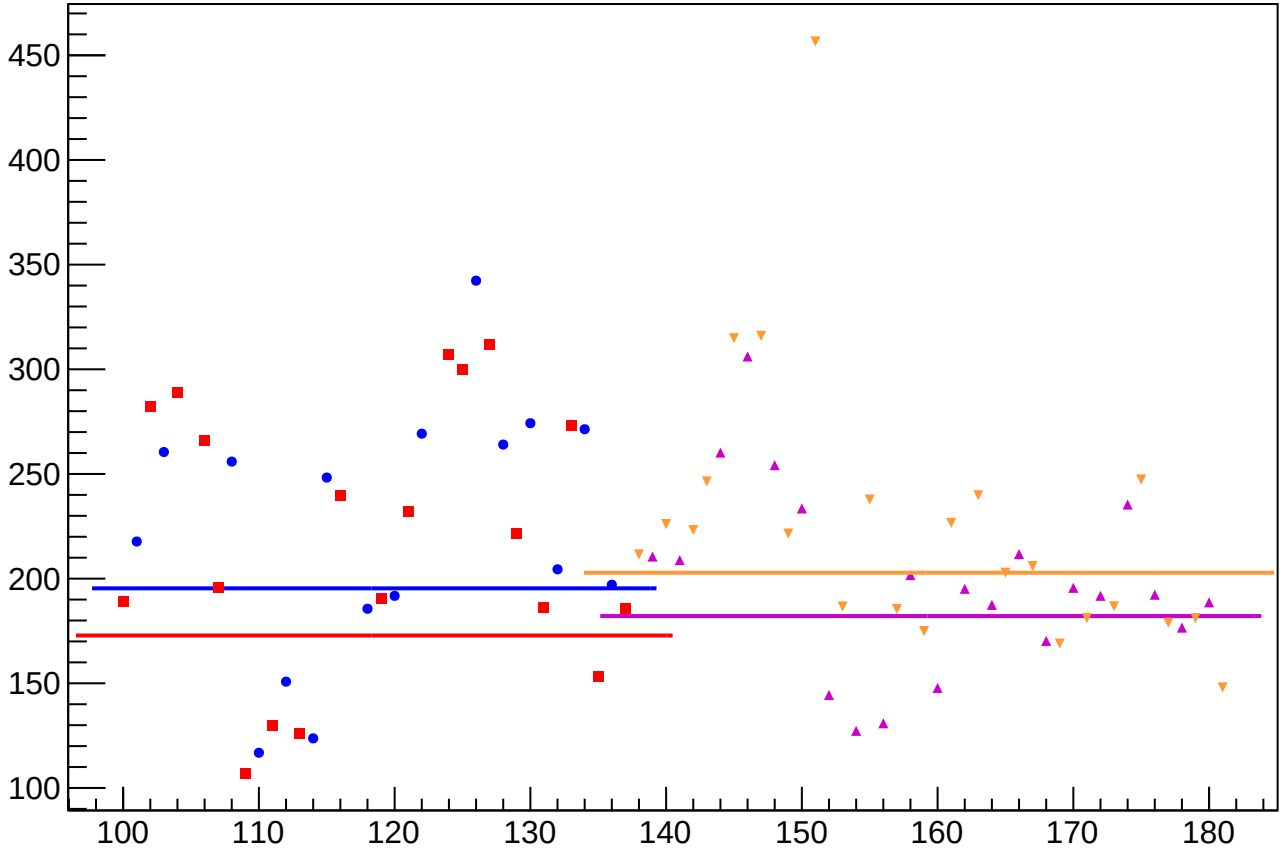
Right: -99.695+/-51.171 $\chi^2$/NDF: 27.7/34

In: 79.487+/-39.414 $\chi^2$/NDF:26.3/36

Out: 39.414+/-39.922 $\chi^2$/NDF:29.4/41

All: 59.707+/-28.048 $\chi^2$/NDF: 56.1/78

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 195.361+/-0.054 $\chi^2$/NDF: 1041432.1/15

Left Out: 202.819+/-0.035 $\chi^2$/NDF:1589492.2/22

Right Out: 172.837+/-0.049 $\chi^2$/NDF: 1659430.2/18

Left In: 182.124+/-0.032 $\chi^2$/NDF:1584794.7/20

Left: 191.784+/-0.024 $\chi^2$/NDF: 3363876.3/43

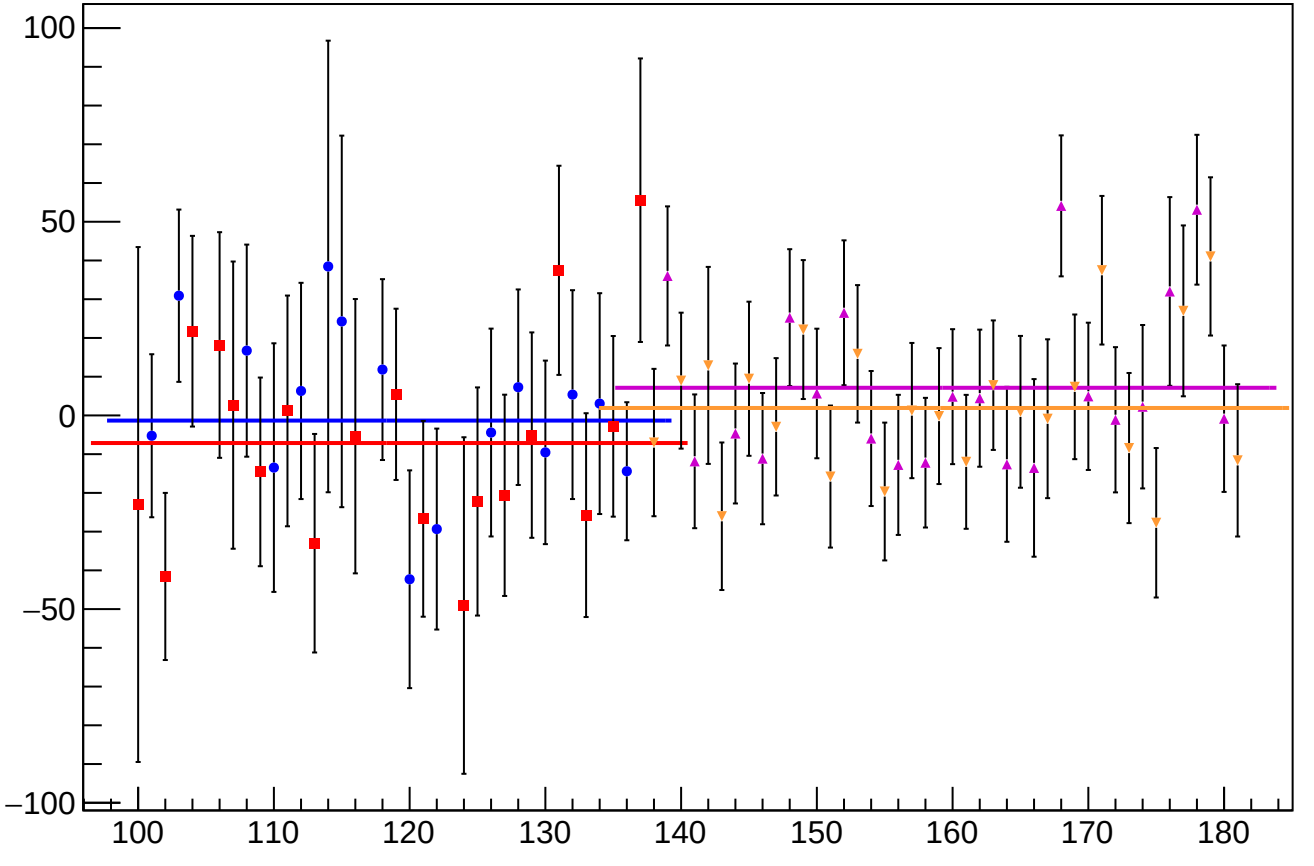
Right: 182.837+/-0.036 $\chi^2$/NDF: 2796519.3/34

In: 185.610+/-0.028 $\chi^2$/NDF:2669995.4/36

Out: 192.672+/-0.028 $\chi^2$/NDF:3501479.5/41

All: 189.096+/-0.020 $\chi^2$/NDF: 6203164.6/78

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected




Right In: -1.331+/-6.499 $\chi^2$/NDF: 8.0/15

Left Out: 1.924+/-3.927 $\chi^2$/NDF:19.6/22

Right Out: -7.126+/-6.402 $\chi^2$/NDF: 14.4/18

Left In: 7.135+/-4.033 $\chi^2$/NDF:26.2/20

Left: 4.460+/-2.813 $\chi^2$/NDF: 46.8/43

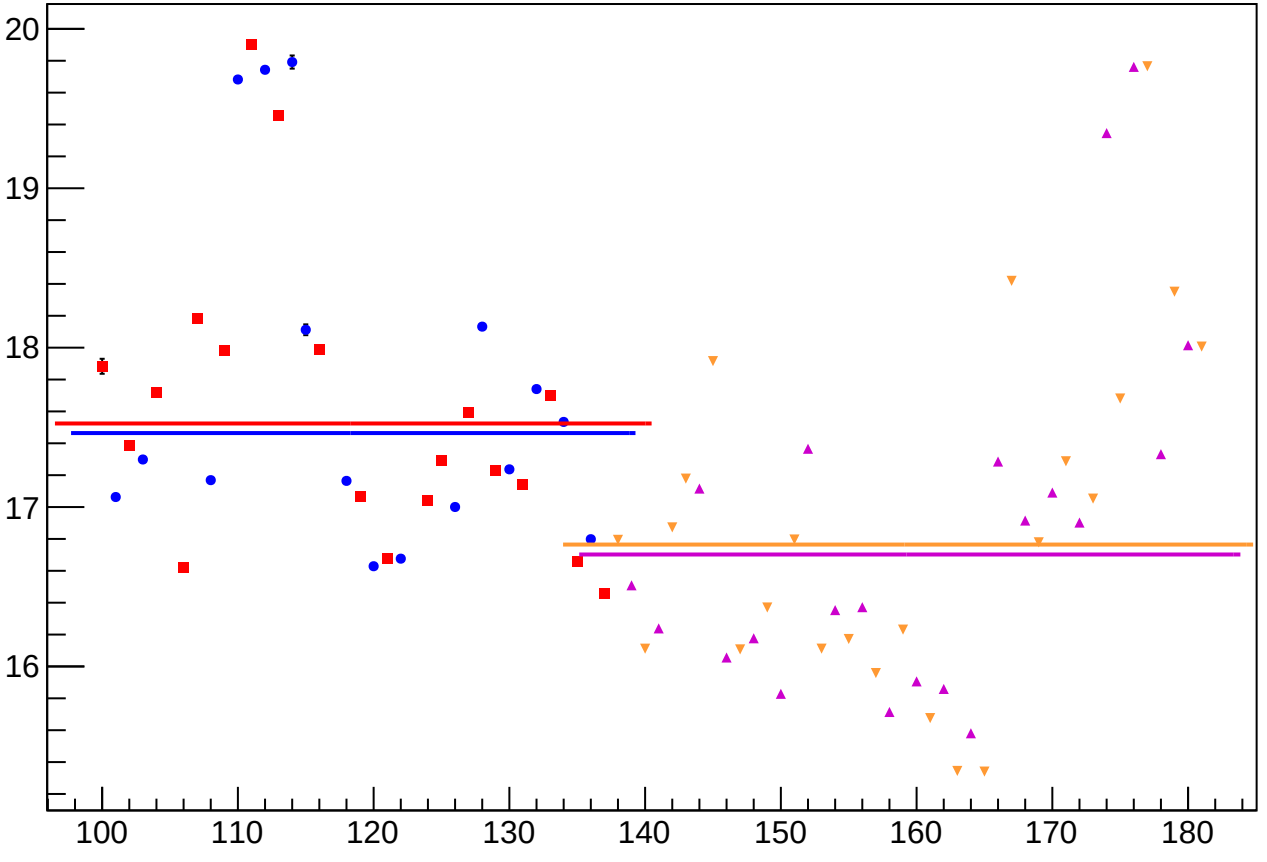
Right: -4.272+/-4.561 $\chi^2$/NDF: 22.8/34

In: 4.781+/-3.427 $\chi^2$/NDF:35.5/36

Out: -0.550+/-3.347 $\chi^2$/NDF:35.5/41

All: 2.053+/-2.395 $\chi^2$/NDF: 72.2/78

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 17.464+/-0.005 $\chi^2$/NDF: 36650.1/15

Left Out: 16.765+/-0.003 $\chi^2$/NDF:134662.2/22

Right Out: 17.524+/-0.005 $\chi^2$/NDF: 34726.0/18

Left In: 16.702+/-0.003 $\chi^2$/NDF:116179.5/20

Left: 16.734+/-0.002 $\chi^2$/NDF: 251087.0/43

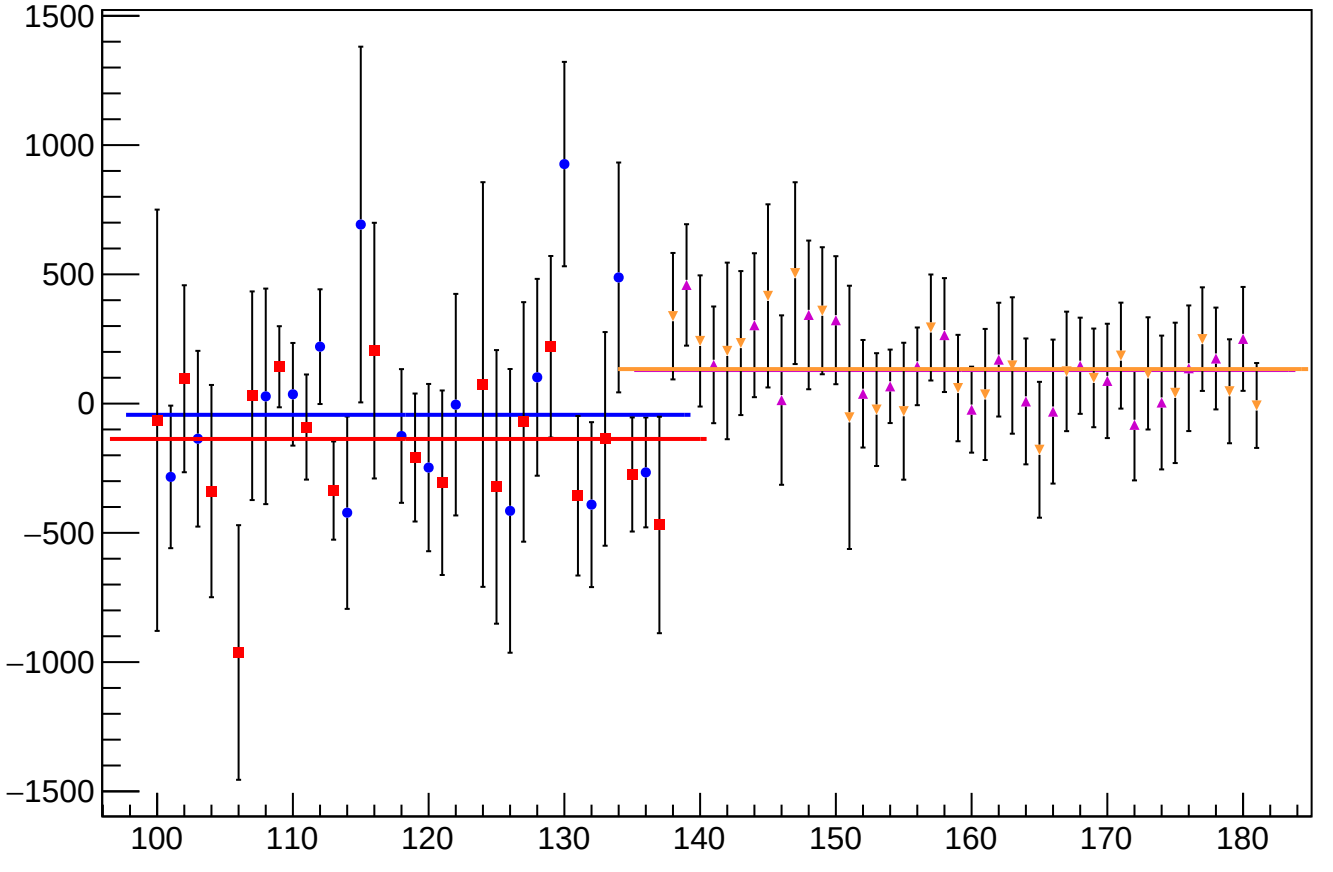
Right: 17.495+/-0.003 $\chi^2$/NDF: 71463.1/34

In: 16.914+/-0.002 $\chi^2$/NDF:172671.6/36

Out: 16.972+/-0.002 $\chi^2$/NDF:189847.4/41

All: 16.944+/-0.002 $\chi^2$/NDF: 362814.2/78

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -43.384+/-77.584 $\chi^2$/NDF: 15.5/15

Left Out: 133.515+/-49.465 $\chi^2$/NDF:8.5/22

Right Out: -136.778+/-69.557 $\chi^2$/NDF: 11.5/18

Left In: 129.840+/-46.336 $\chi^2$/NDF:7.5/20

Left: 131.558+/-33.817 $\chi^2$/NDF: 16.0/43

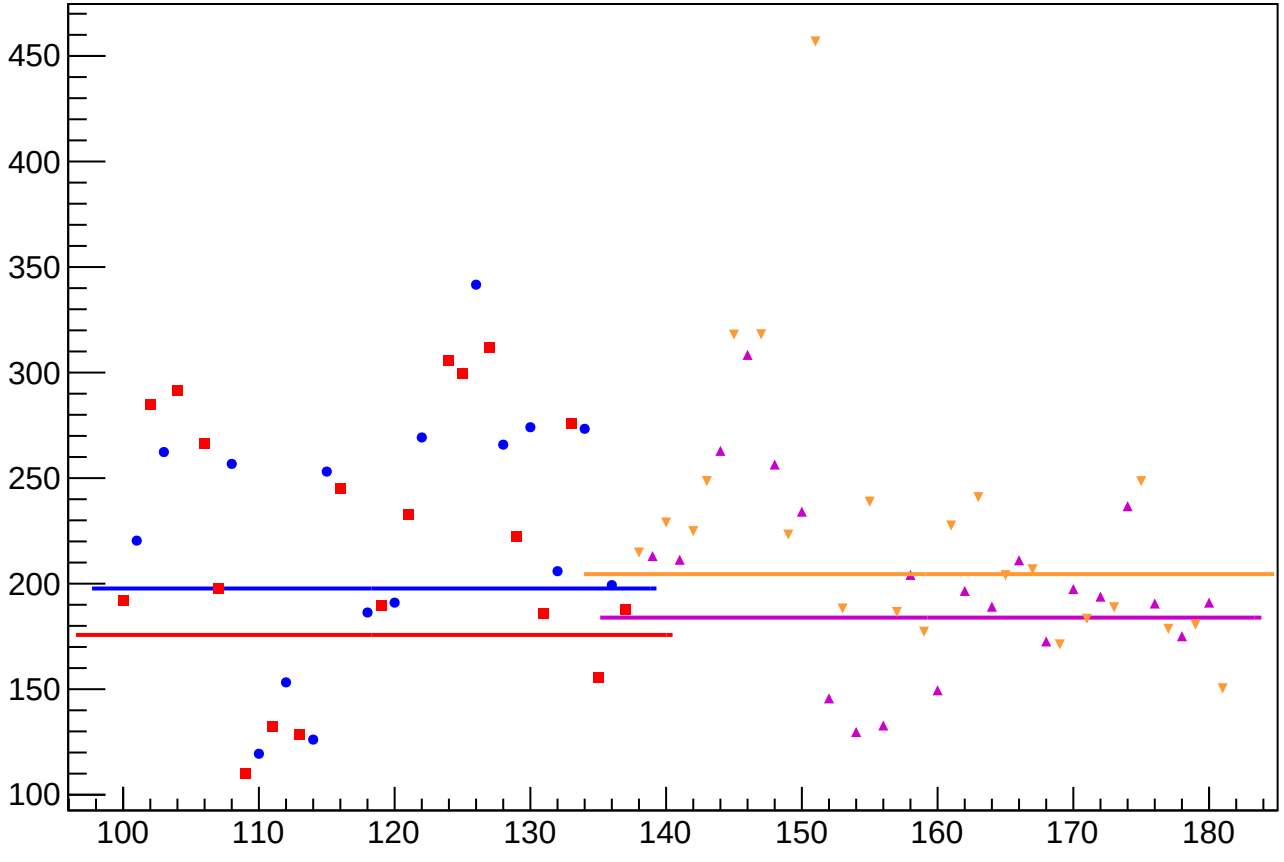
Right: -95.161+/-51.790 $\chi^2$/NDF: 27.8/34

In: 84.298+/-39.781 $\chi^2$/NDF:26.7/36

Out: 42.731+/-40.311 $\chi^2$/NDF:30.0/41

All: 63.790+/-28.315 $\chi^2$/NDF: 57.2/78

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 197.707+/-0.055 $\chi^2$/NDF: 1000324.6/15

Left Out: 204.509+/-0.035 $\chi^2$/NDF:1569986.6/22

Right Out: 175.716+/-0.049 $\chi^2$/NDF: 1590559.8/18

Left In: 183.915+/-0.033 $\chi^2$/NDF:1548168.2/20

Left: 193.540+/-0.024 $\chi^2$/NDF: 3302790.5/43

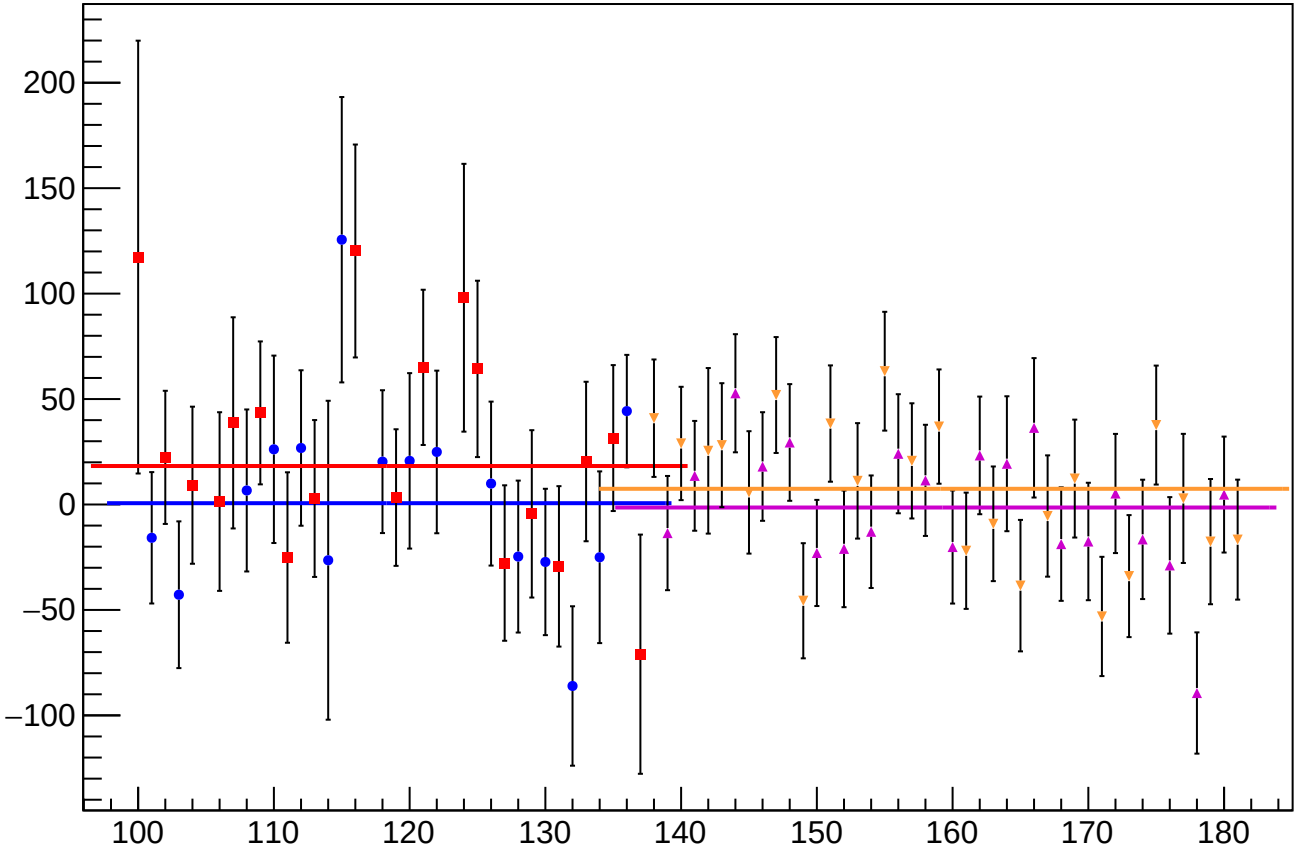
Right: 185.515+/-0.037 $\chi^2$/NDF: 2679972.8/34

In: 187.541+/-0.028 $\chi^2$/NDF:2595080.4/36

Out: 194.838+/-0.029 $\chi^2$/NDF:3388148.7/41

All: 191.141+/-0.020 $\chi^2$/NDF: 6016426.1/78

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: 0.619+/-9.421 $\chi^2$/NDF: 16.7/15

Left Out: 7.443+/-5.947 $\chi^2$/NDF:29.0/22

Right Out: 18.248+/-9.208 $\chi^2$/NDF: 18.0/18

Left In: -1.432+/-6.070 $\chi^2$/NDF:22.8/20

Left: 3.097+/-4.248 $\chi^2$/NDF: 52.8/43

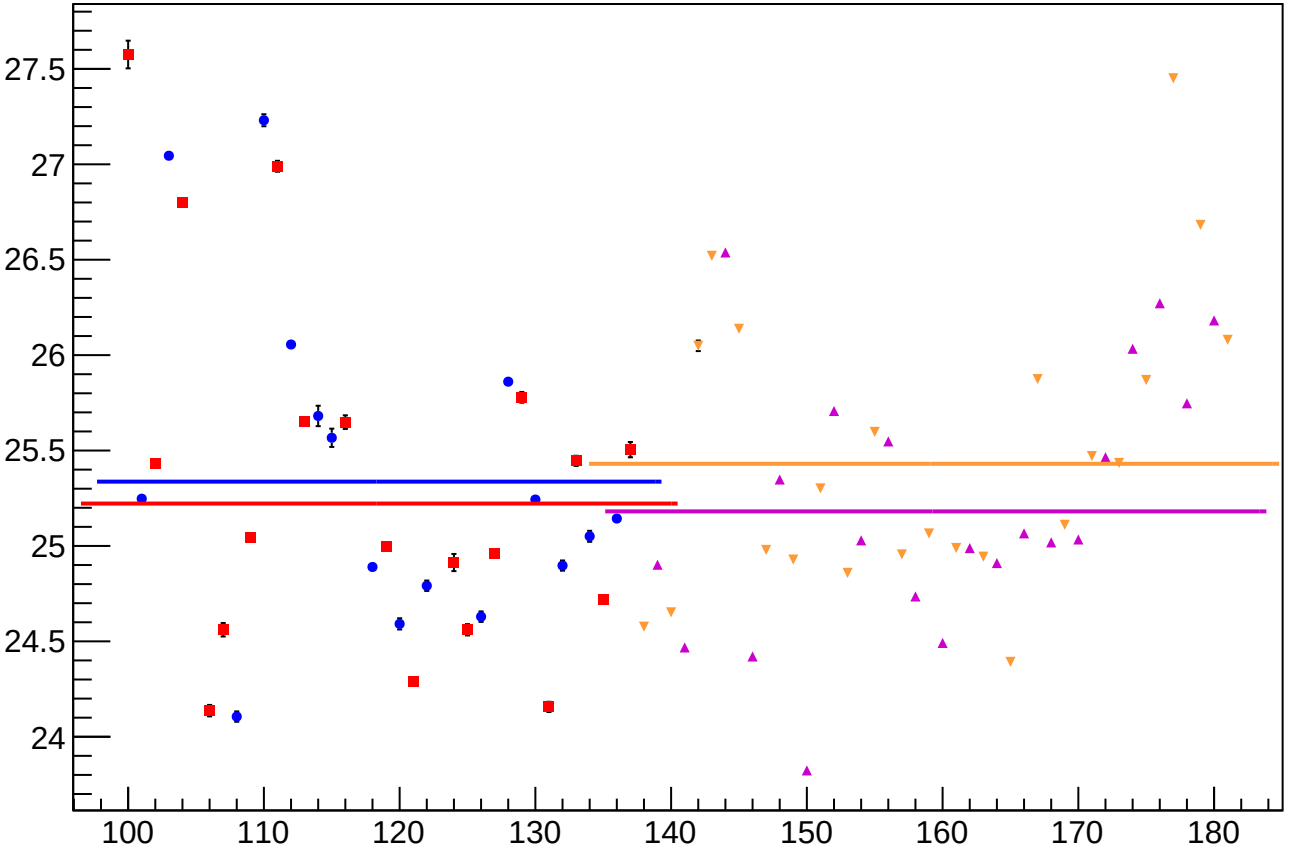
Right: 9.635+/-6.585 $\chi^2$/NDF: 36.5/34

In: -0.830+/-5.103 $\chi^2$/NDF:39.6/36

Out: 10.624+/-4.996 $\chi^2$/NDF:47.9/41

All: 5.018+/-3.570 $\chi^2$/NDF: 90.0/78

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 25.337+/-0.007 $\chi^2$/NDF: 14315.0/15

Left Out: 25.431+/-0.004 $\chi^2$/NDF:29071.2/22

Right Out: 25.222+/-0.007 $\chi^2$/NDF: 15224.4/18

Left In: 25.181+/-0.004 $\chi^2$/NDF:25167.7/20

Left: 25.308+/-0.003 $\chi^2$/NDF: 55963.2/43

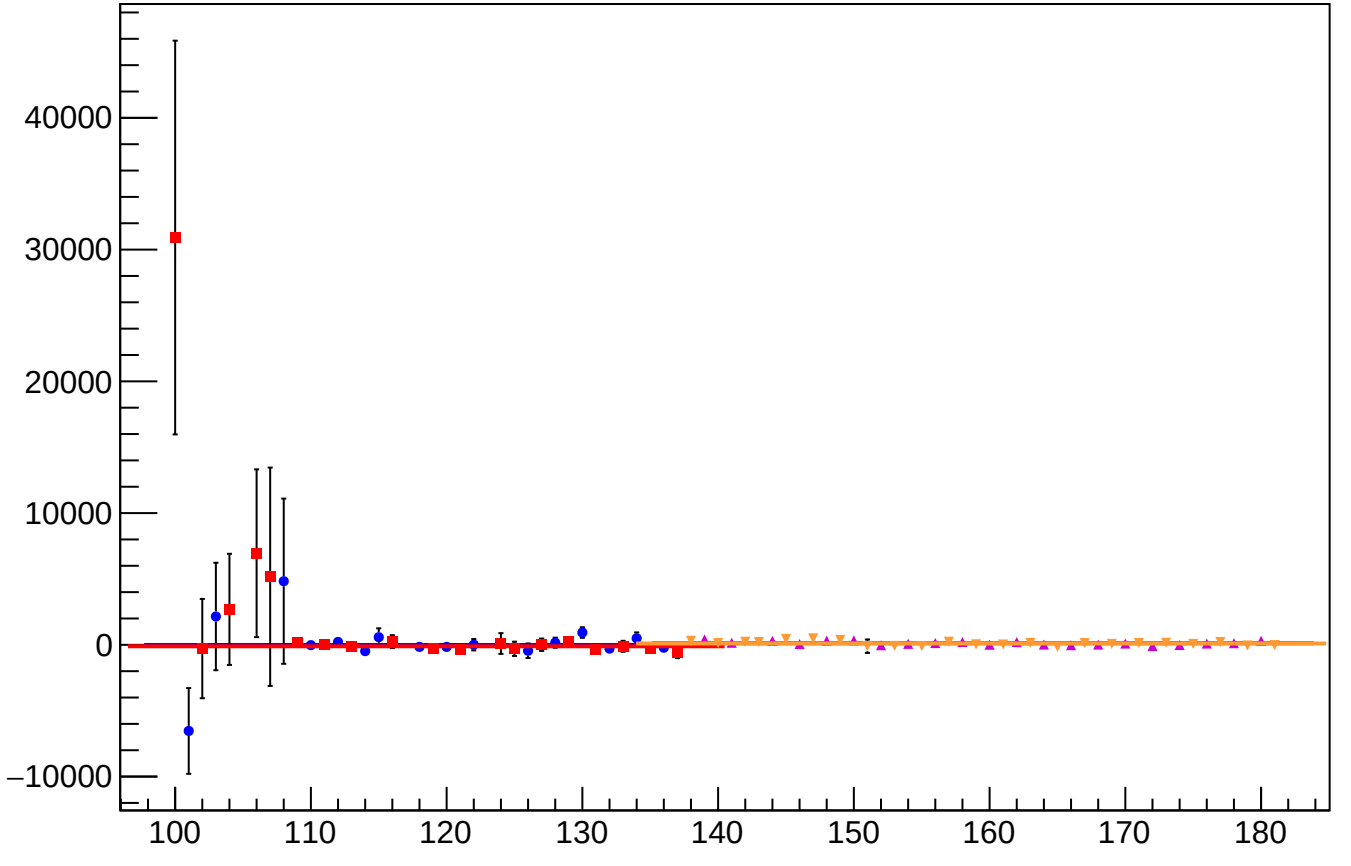
Right: 25.278+/-0.005 $\chi^2$/NDF: 29691.5/34

In: 25.227+/-0.004 $\chi^2$/NDF:39869.9/36

Out: 25.369+/-0.004 $\chi^2$/NDF:45018.8/41

All: 25.300+/-0.003 $\chi^2$/NDF: 85684.3/78

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -15.450+/-84.701 $\chi^2$/NDF: 18.3/15

Left Out: 103.737+/-49.337 $\chi^2$/NDF:8.9/22

Right Out: -108.825+/-78.099 $\chi^2$/NDF: 14.0/18

Left In: 122.837+/-46.806 $\chi^2$/NDF:7.5/20

Left: 113.789+/-33.957 $\chi^2$/NDF: 16.5/43

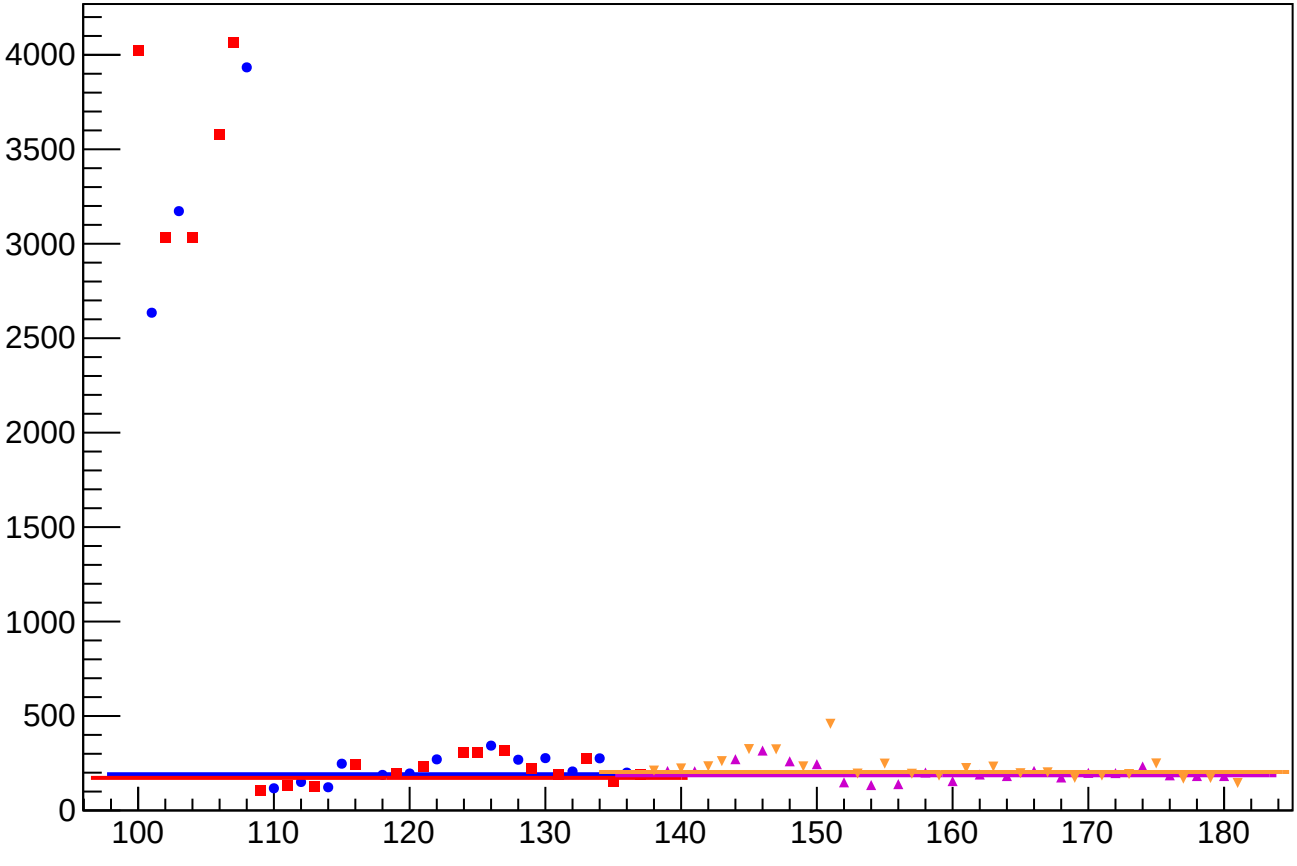
Right: -65.918+/-57.416 $\chi^2$/NDF: 33.0/34

In: 90.486+/-40.967 $\chi^2$/NDF:27.9/36

Out: 43.105+/-41.711 $\chi^2$/NDF:28.2/41

All: 67.222+/-29.228 $\chi^2$/NDF: 56.8/78

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 191.736+/-0.060 $\chi^2$/NDF: 3821804.2/15

Left Out: 203.608+/-0.035 $\chi^2$/NDF:1718706.6/22

Right Out: 172.462+/-0.055 $\chi^2$/NDF: 4303129.4/18

Left In: 186.249+/-0.033 $\chi^2$/NDF:1407108.3/20

Left: 194.472+/-0.024 $\chi^2$/NDF: 3256116.8/43

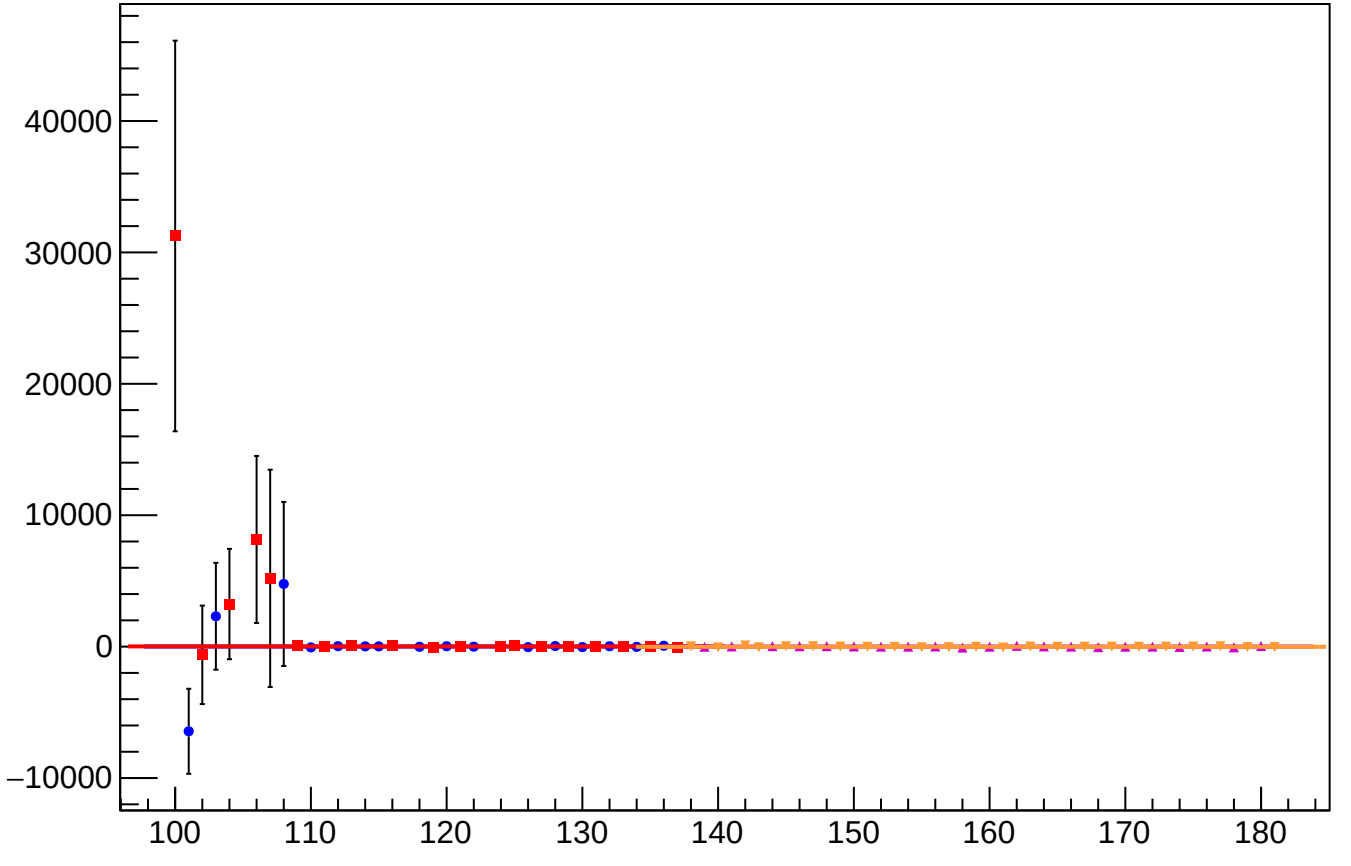
Right: 181.319+/-0.041 $\chi^2$/NDF: 8180903.6/34

In: 187.533+/-0.029 $\chi^2$/NDF:5235340.3/36

Out: 194.724+/-0.029 $\chi^2$/NDF:6249188.2/41

All: 191.064+/-0.021 $\chi^2$/NDF: 11514785.7/78

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected




Right In: 9.576+/-11.685 $\chi^2$/NDF: 16.0/15

Left Out: -13.638+/-6.696 $\chi^2$/NDF:21.3/22

Right Out: 18.105+/-11.805 $\chi^2$/NDF: 24.8/18

Left In: 5.478+/-6.908 $\chi^2$/NDF:22.8/20

Left: -4.378+/-4.808 $\chi^2$/NDF: 48.1/43

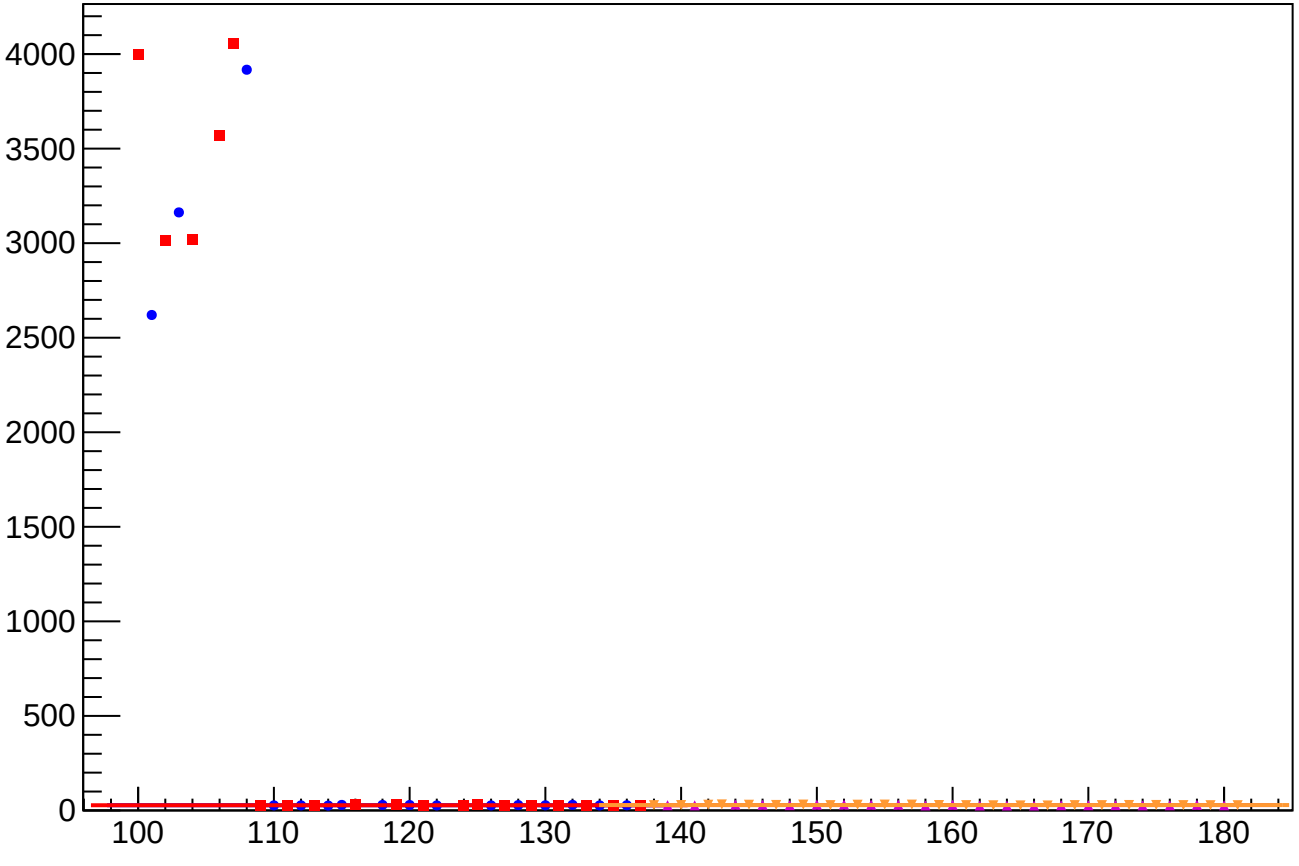
Right: 13.797+/-8.305 $\chi^2$/NDF: 41.0/34

In: 6.539+/-5.947 $\chi^2$/NDF:38.9/36

Out: -5.911+/-5.824 $\chi^2$/NDF:51.6/41

All: 0.185+/-4.161 $\chi^2$/NDF: 92.7/78

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 27.642+/-0.008 $\chi^2$/NDF: 3265498.5/15

Left Out: 28.586+/-0.005 $\chi^2$/NDF:88130.1/22

Right Out: 27.535+/-0.008 $\chi^2$/NDF: 3555229.4/18

Left In: 28.587+/-0.005 $\chi^2$/NDF:122610.3/20

Left: 28.587+/-0.003 $\chi^2$/NDF: 210740.5/43

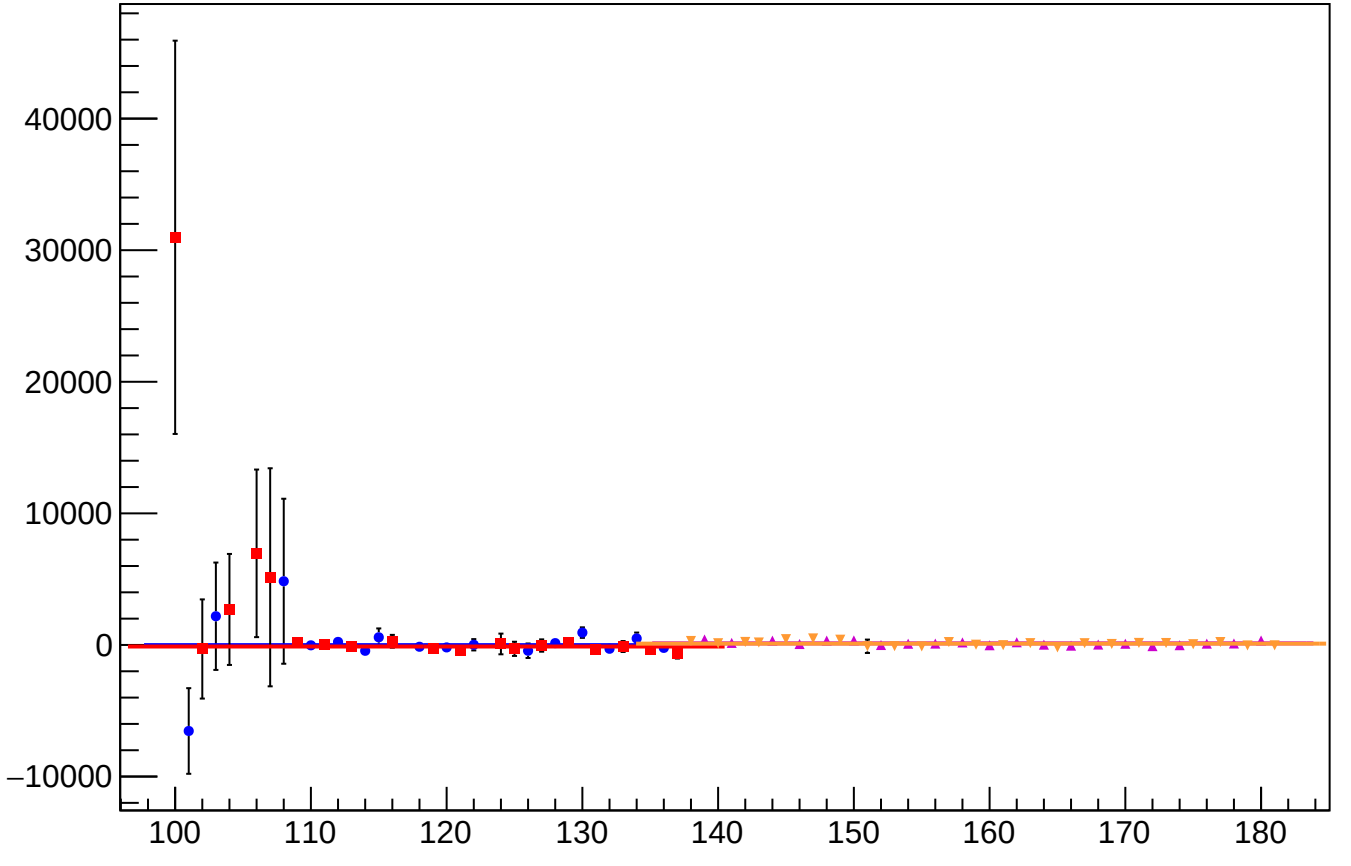
Right: 27.589+/-0.006 $\chi^2$/NDF: 6820810.9/34

In: 28.342+/-0.004 $\chi^2$/NDF:3397818.6/36

Out: 28.330+/-0.004 $\chi^2$/NDF:3655359.9/41

All: 28.336+/-0.003 $\chi^2$/NDF: 7053183.0/78

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -13.160+/-84.454 $\chi^2$/NDF: 18.3/15

Left Out: 99.697+/-49.227 $\chi^2$/NDF:9.6/22

Right Out: -118.063+/-77.862 $\chi^2$/NDF: 14.4/18

Left In: 121.757+/-46.715 $\chi^2$/NDF:8.1/20

Left: 111.304+/-33.886 $\chi^2$/NDF: 17.8/43

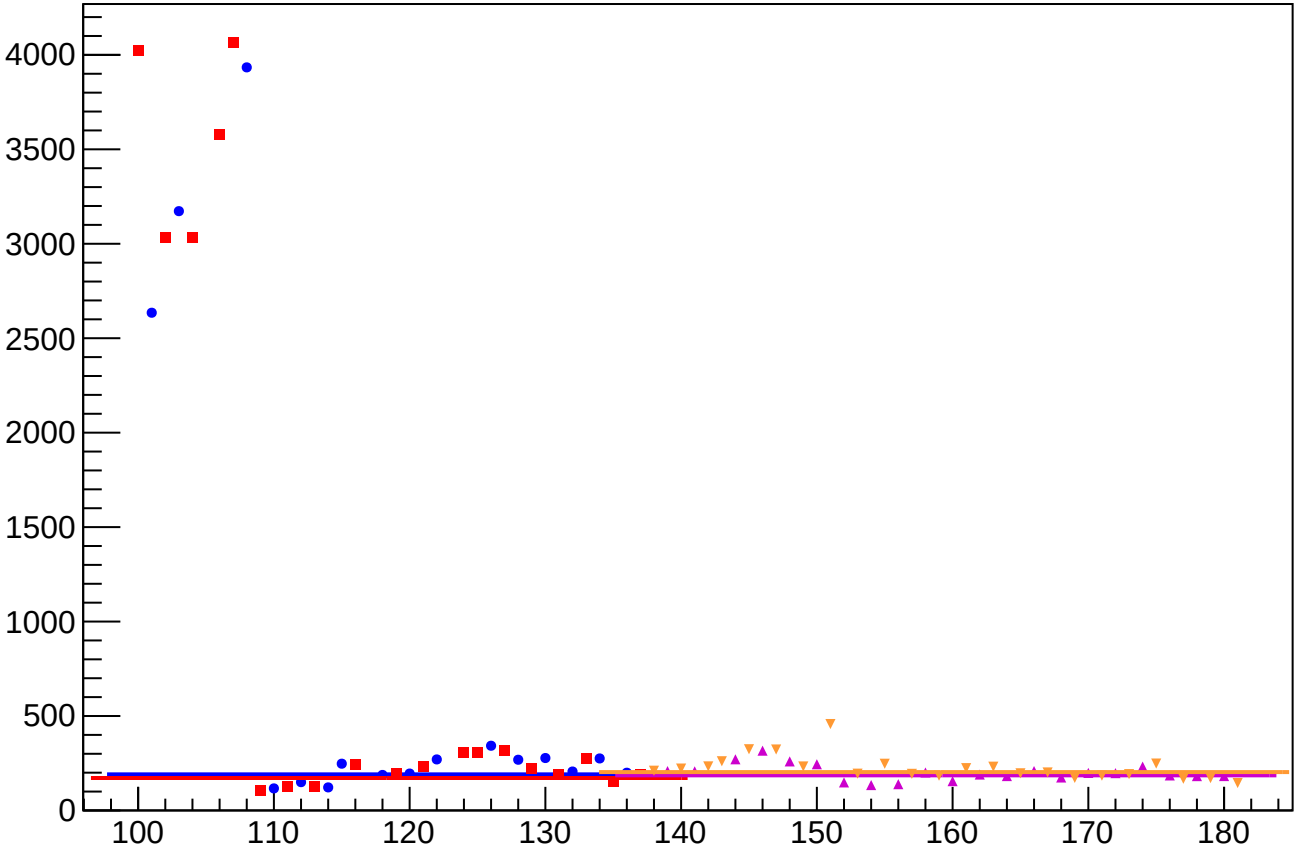
Right: -69.865+/-57.246 $\chi^2$/NDF: 33.6/34

In: 90.148+/-40.878 $\chi^2$/NDF:28.4/36

Out: 37.511+/-41.609 $\chi^2$/NDF:29.7/41

All: 64.296+/-29.160 $\chi^2$/NDF: 58.8/78

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 191.070+/-0.060 $\chi^2$/NDF: 3833952.4/15

Left Out: 203.155+/-0.035 $\chi^2$/NDF:1719329.2/22

Right Out: 171.835+/-0.055 $\chi^2$/NDF: 4314721.8/18

Left In: 185.888+/-0.033 $\chi^2$/NDF:1406613.2/20

Left: 194.069+/-0.024 $\chi^2$/NDF: 3255420.7/43

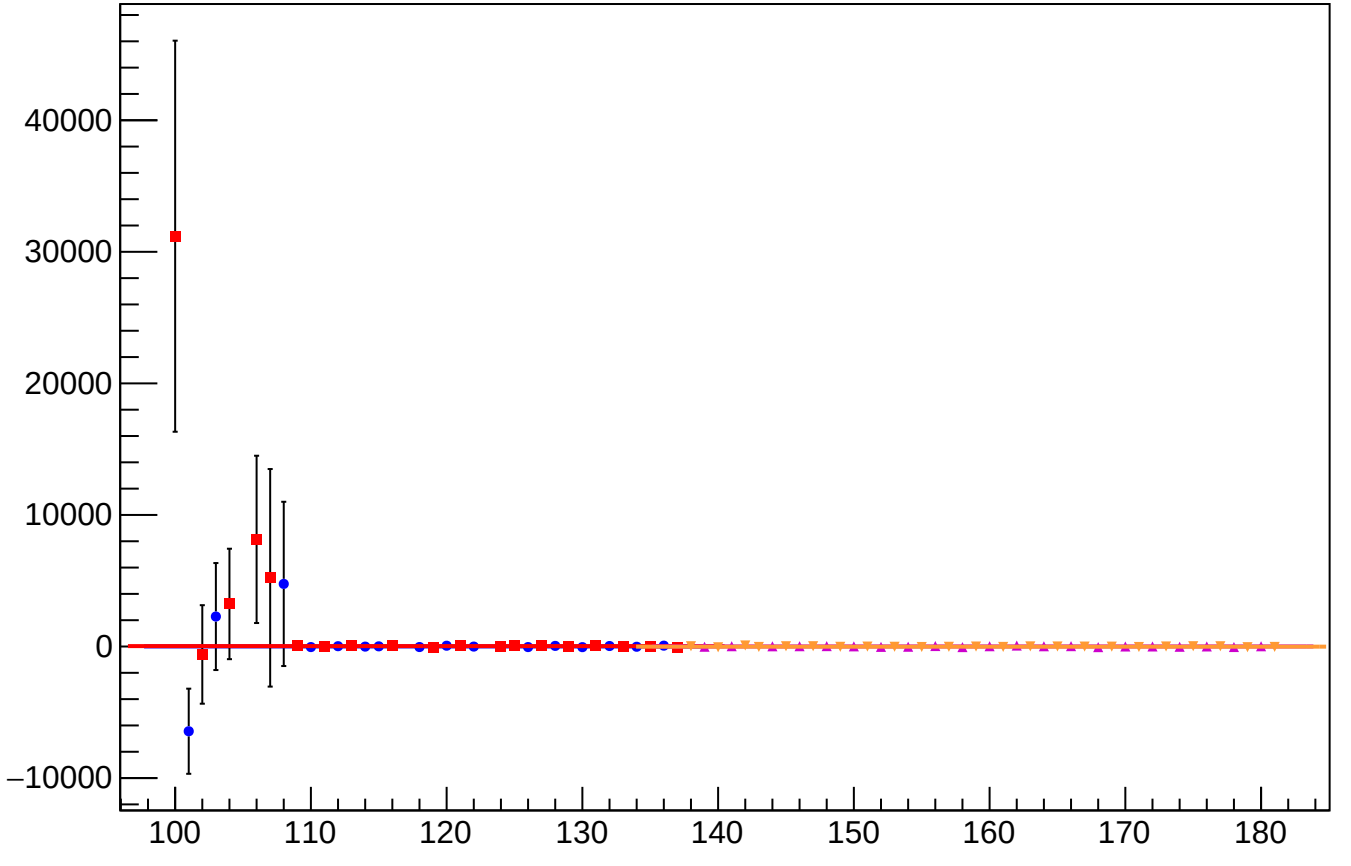
Right: 180.673+/-0.040 $\chi^2$/NDF: 8204752.1/34

In: 187.102+/-0.029 $\chi^2$/NDF:5246331.9/36

Out: 194.211+/-0.029 $\chi^2$/NDF:6265243.7/41

All: 190.593+/-0.021 $\chi^2$/NDF: 11541285.6/78

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: 6.490+/-11.764 $\chi^2$/NDF: 18.3/15

Left Out: -10.262+/-6.728 $\chi^2$/NDF:16.4/22

Right Out: 30.962+/-11.902 $\chi^2$/NDF: 19.9/18

Left In: 5.610+/-6.939 $\chi^2$/NDF:18.6/20

Left: -2.572+/-4.830 $\chi^2$/NDF: 37.7/43

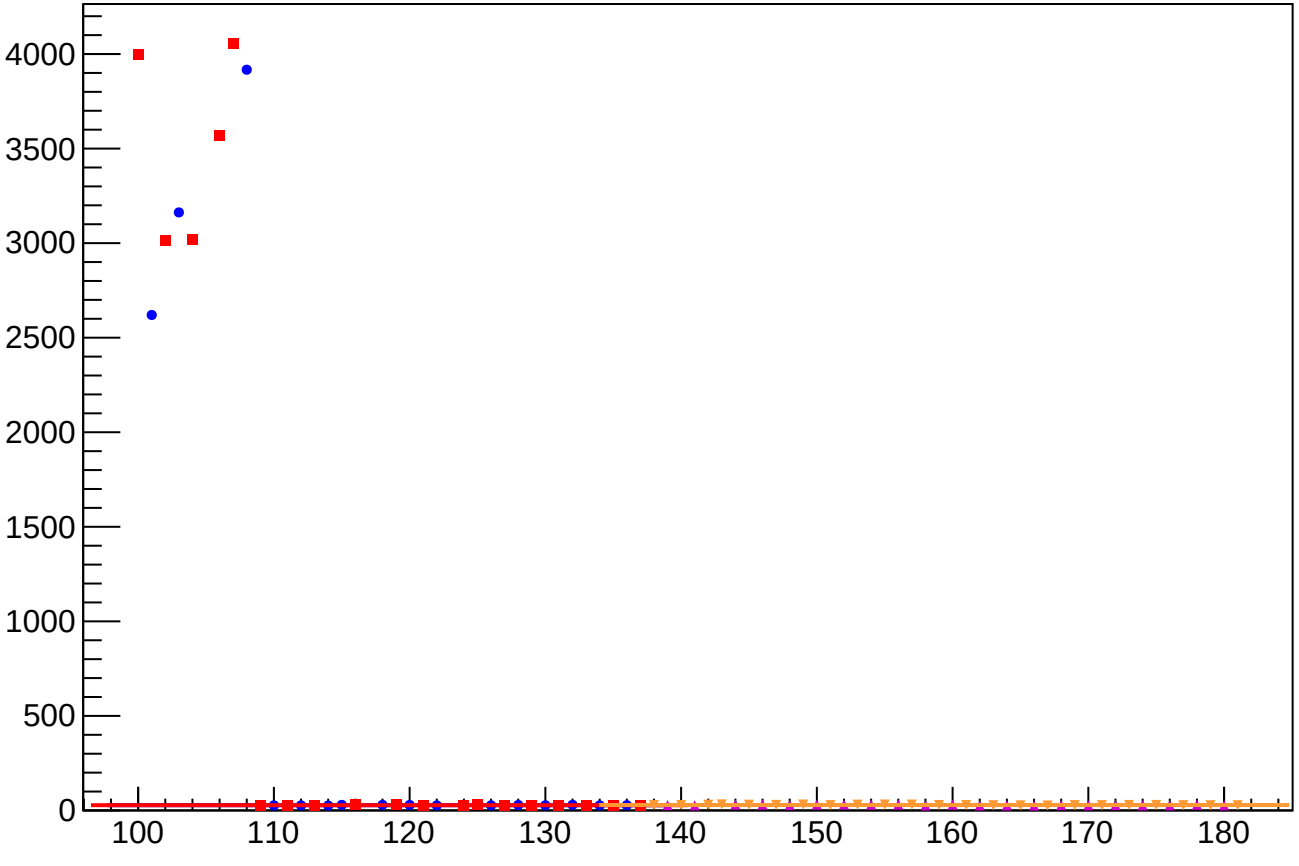
Right: 18.584+/-8.367 $\chi^2$/NDF: 40.3/34

In: 5.837+/-5.977 $\chi^2$/NDF:36.9/36

Out: -0.279+/-5.857 $\chi^2$/NDF:45.3/41

All: 2.717+/-4.183 $\chi^2$/NDF: 82.8/78

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 27.825+/-0.008 $\chi^2$/NDF: 3265895.3/15

Left Out: 28.715+/-0.005 $\chi^2$/NDF:98814.1/22

Right Out: 27.754+/-0.008 $\chi^2$/NDF: 3558676.9/18

Left In: 28.716+/-0.005 $\chi^2$/NDF:127183.7/20

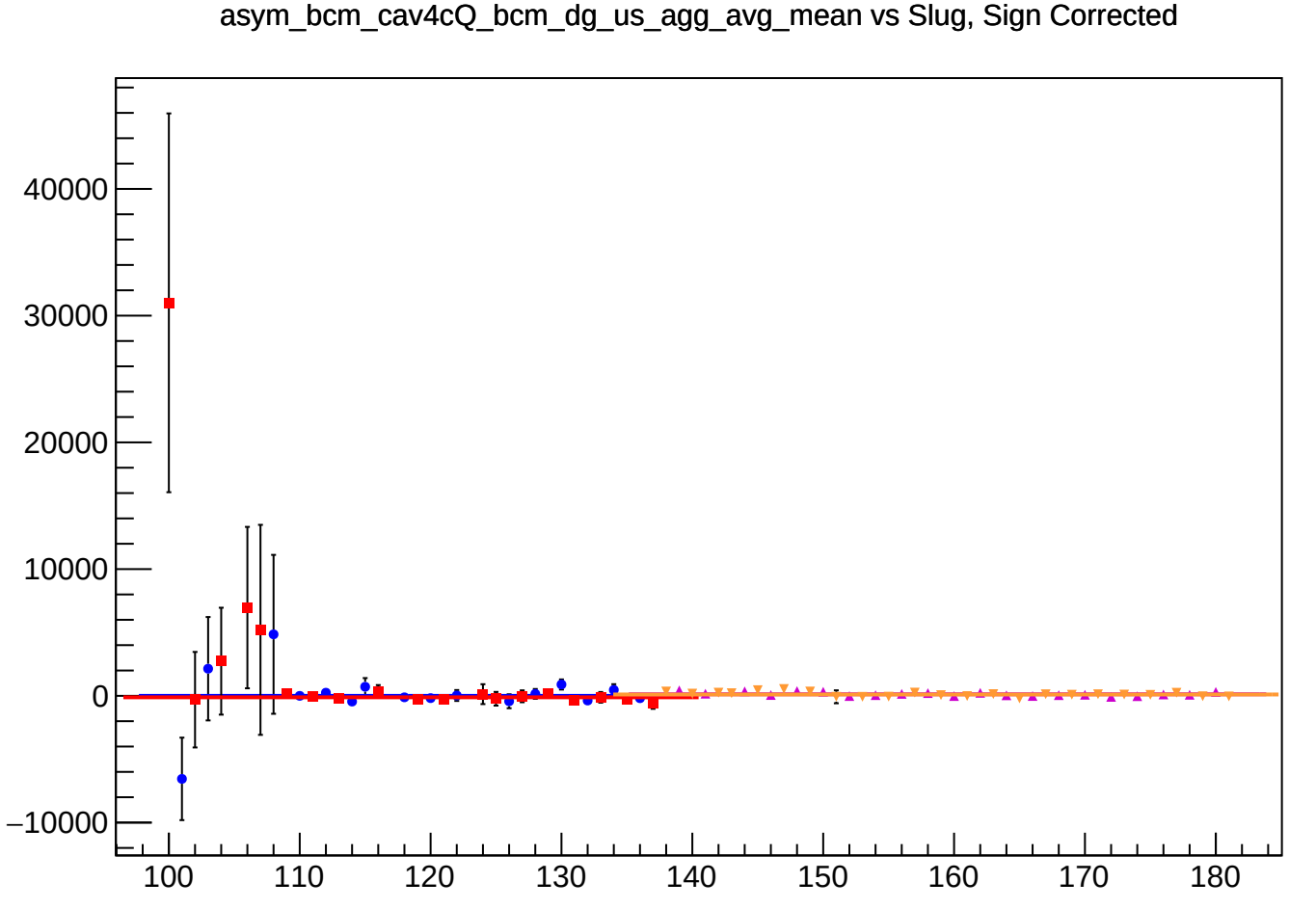
Left: 28.715+/-0.003 $\chi^2$/NDF: 225997.7/43

Right: 27.790+/-0.006 $\chi^2$/NDF: 6824608.5/34

In: 28.486+/-0.004 $\chi^2$/NDF:3401584.7/36

Out: 28.482+/-0.004 $\chi^2$/NDF:3667390.5/41

All: 28.484+/-0.003 $\chi^2$/NDF: 7068975.6/78




Right In: -2.795+/-85.508 $\chi^2$/NDF: 18.2/15

Left Out: 107.129+/-49.697 $\chi^2$/NDF:9.9/22

Right Out: -115.753+/-78.952 $\chi^2$/NDF: 13.8/18

Left In: 126.598+/-47.201 $\chi^2$/NDF:8.2/20

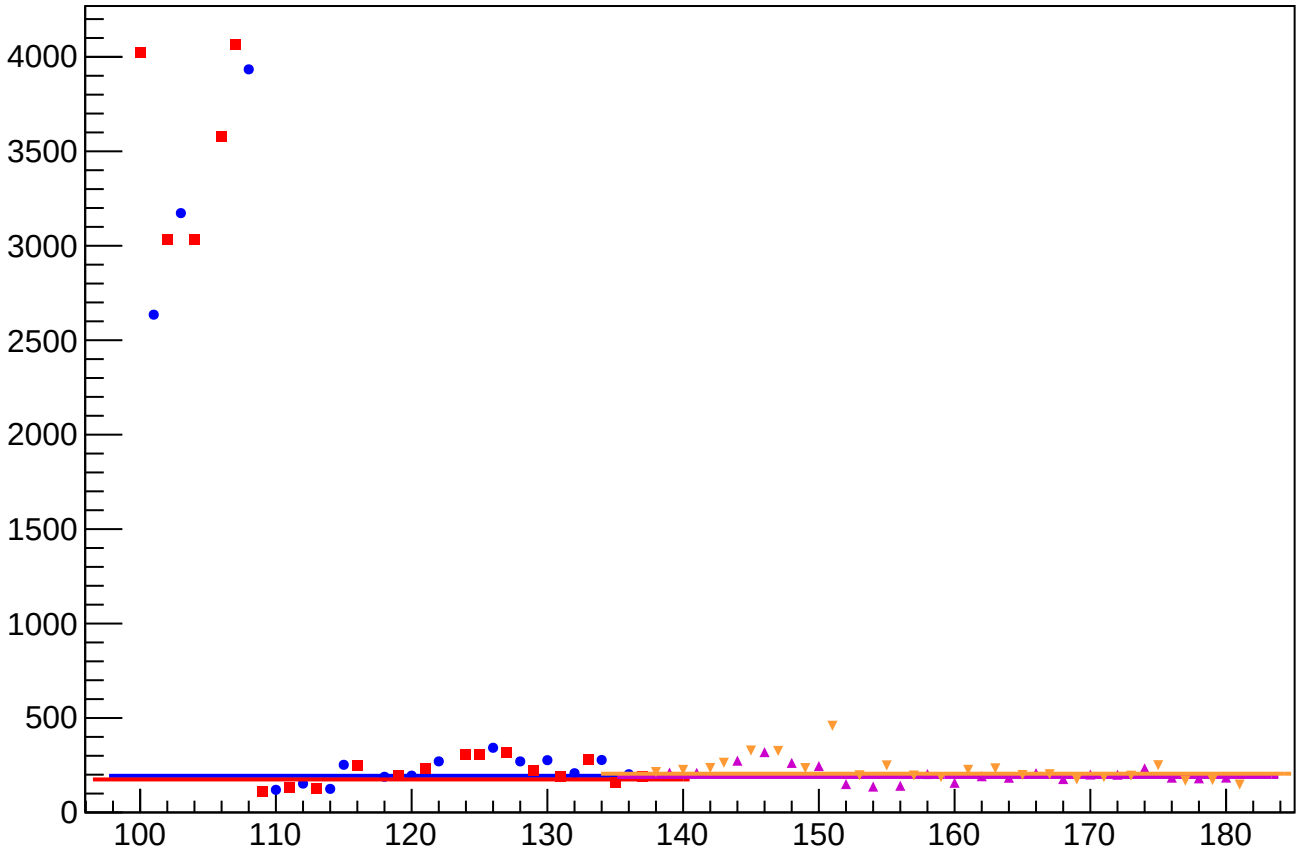
Left: 117.364+/-34.224 $\chi^2$/NDF: 18.2/43

Right: -63.770+/-58.007 $\chi^2$/NDF: 33.0/34

In: 96.379+/-41.323 $\chi^2$/NDF:28.2/36

Out: 43.880+/-42.058 $\chi^2$/NDF:29.4/41

All: 70.593+/-29.476 $\chi^2$/NDF: 58.4/78




Right In: 193.946+/-0.060 $\chi^2$/NDF: 3784467.5/15

Left Out: 205.176+/-0.035 $\chi^2$/NDF:1706606.4/22

Right Out: 174.779+/-0.056 $\chi^2$/NDF: 4259323.6/18

Left In: 187.955+/-0.033 $\chi^2$/NDF:1377042.0/20

Left: 196.123+/-0.024 $\chi^2$/NDF: 3209907.3/43

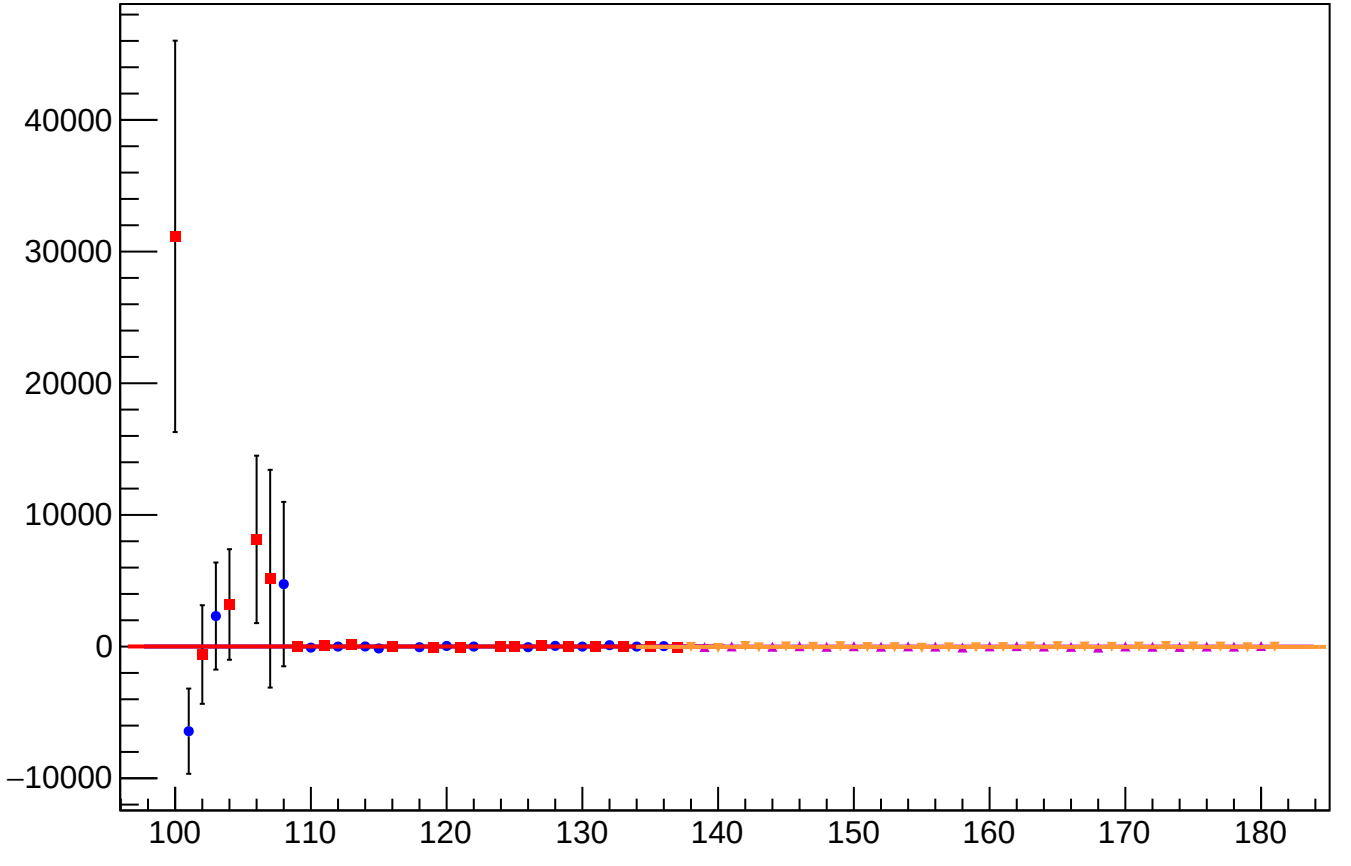
Right: 183.600+/-0.041 $\chi^2$/NDF: 8098034.9/34

In: 189.355+/-0.029 $\chi^2$/NDF:5169034.0/36

Out: 196.551+/-0.030 $\chi^2$/NDF:6178258.9/41

All: 192.889+/-0.021 $\chi^2$/NDF: 11377082.1/78

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected




Right In: 5.660+/-14.306 $\chi^2$/NDF: 17.5/15

Left Out: -23.345+/-8.049 $\chi^2$/NDF:21.6/22

Right Out: 10.003+/-14.433 $\chi^2$/NDF: 23.4/18

Left In: 0.103+/-8.324 $\chi^2$/NDF:14.1/20

Left: -12.014+/-5.786 $\chi^2$/NDF: 39.8/43

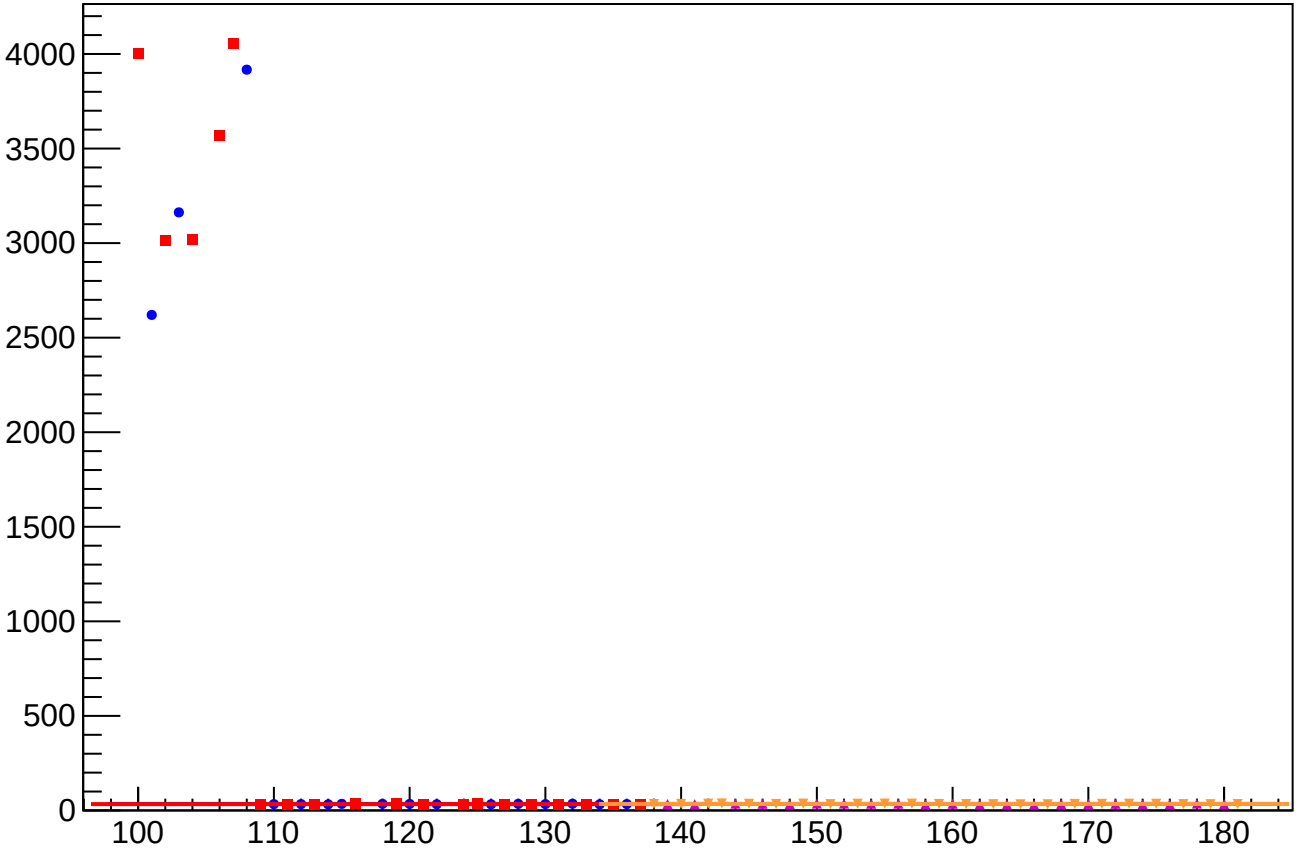
Right: 7.813+/-10.160 $\chi^2$/NDF: 40.9/34

In: 1.509+/-7.194 $\chi^2$/NDF:31.7/36

Out: -15.434+/-7.030 $\chi^2$/NDF:49.1/41

All: -7.159+/-5.028 $\chi^2$/NDF: 83.6/78

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 33.899+/-0.010 $\chi^2$/NDF: 3244382.4/15

Left Out: 34.406+/-0.006 $\chi^2$/NDF:44056.6/22

Right Out: 33.726+/-0.010 $\chi^2$/NDF: 3526463.8/18

Left In: 34.506+/-0.006 $\chi^2$/NDF:58118.3/20

Left: 34.454+/-0.004 $\chi^2$/NDF: 102322.0/43

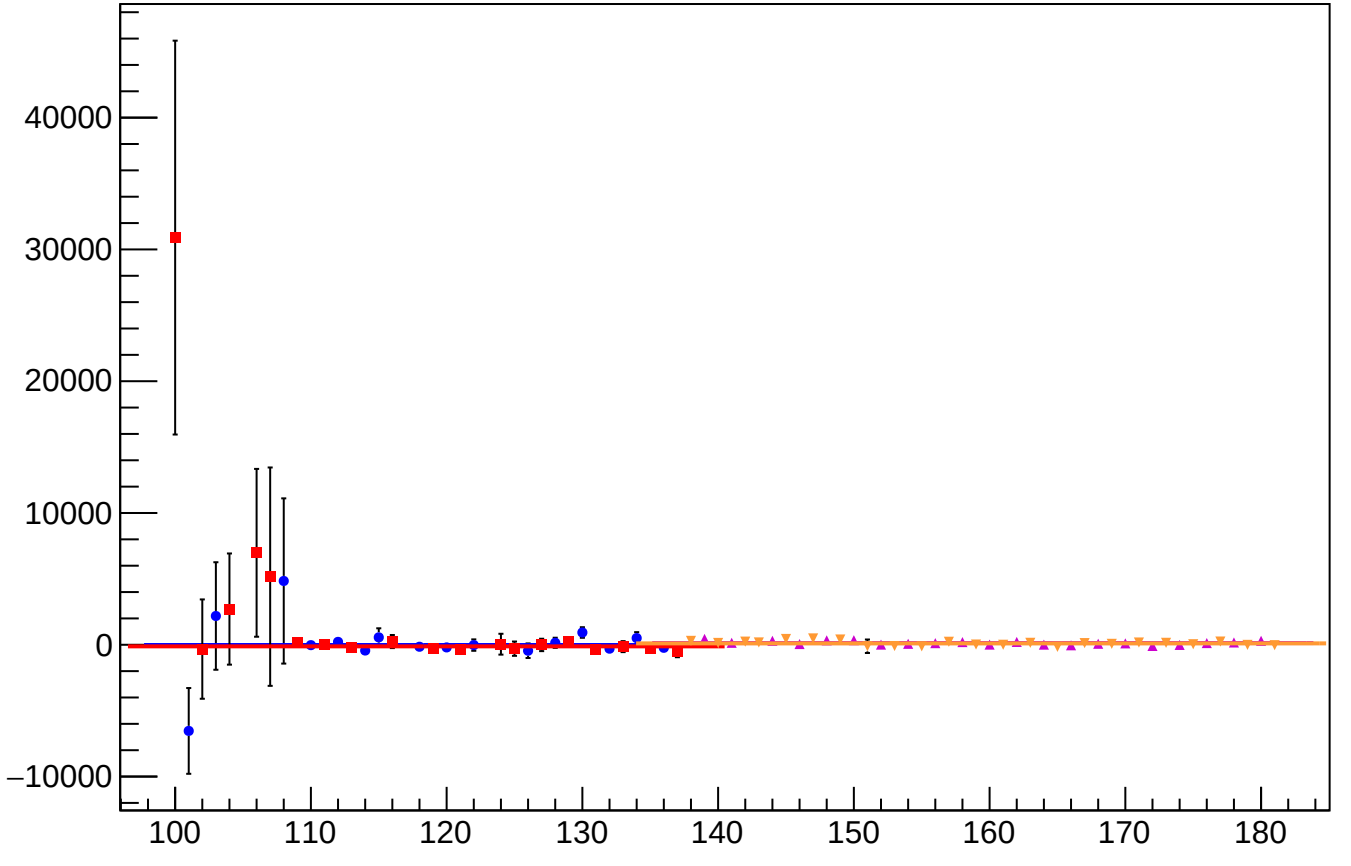
Right: 33.814+/-0.007 $\chi^2$/NDF: 6770991.8/34

In: 34.352+/-0.005 $\chi^2$/NDF:3305183.3/36

Out: 34.245+/-0.005 $\chi^2$/NDF:3573909.1/41

All: 34.297+/-0.004 $\chi^2$/NDF: 6879320.3/78

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -19.522+/-85.063 $\chi^2$/NDF: 18.2/15

Left Out: 105.808+/-49.645 $\chi^2$/NDF:9.4/22

Right Out: -119.922+/-78.455 $\chi^2$/NDF: 13.3/18

Left In: 131.380+/-47.144 $\chi^2$/NDF:7.4/20

Left: 119.254+/-34.186 $\chi^2$/NDF: 17.0/43

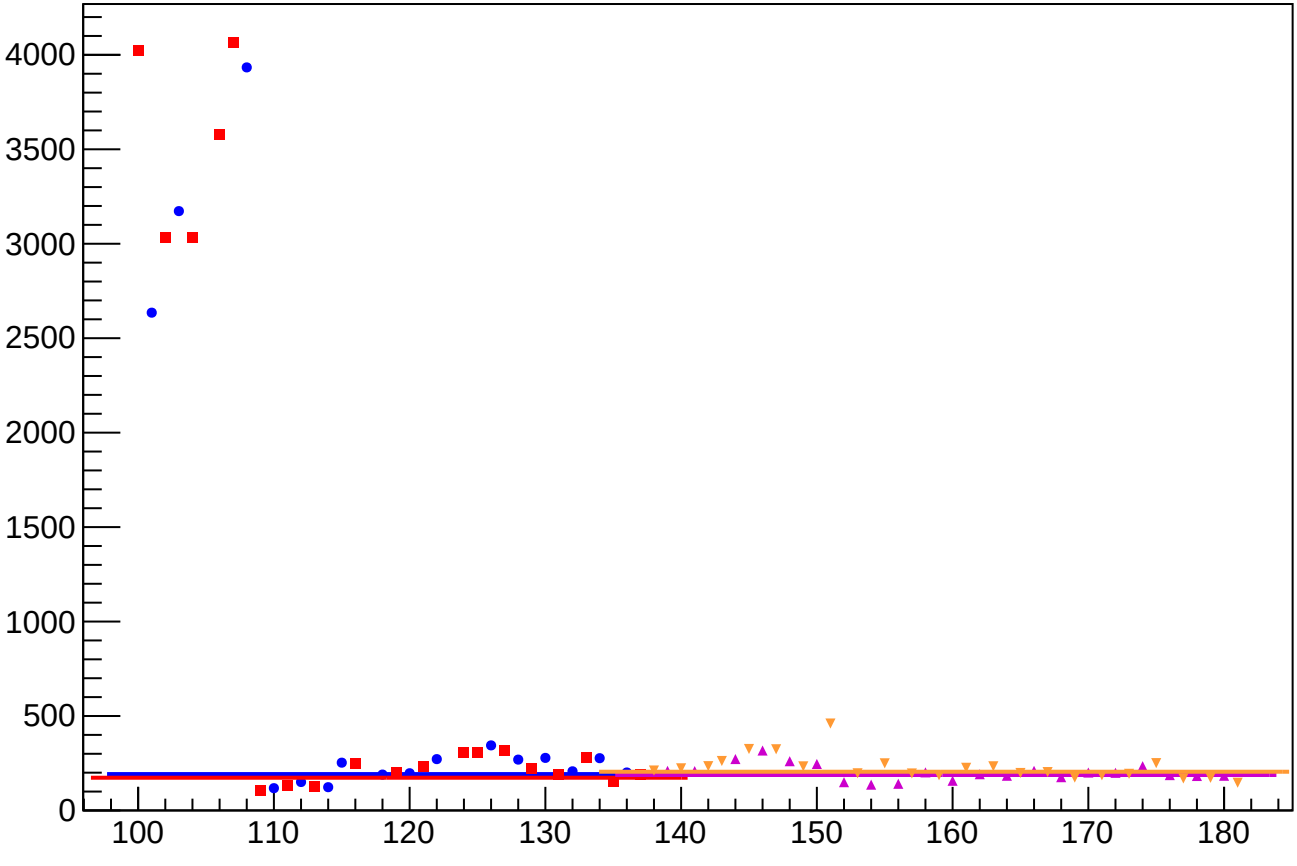
Right: -73.773+/-57.671 $\chi^2$/NDF: 32.2/34

In: 95.920+/-41.234 $\chi^2$/NDF:28.0/36

Out: 41.265+/-41.952 $\chi^2$/NDF:28.6/41

All: 69.064+/-29.407 $\chi^2$/NDF: 57.5/78

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 192.560+/-0.060 $\chi^2$/NDF: 3822789.1/15

Left Out: 204.977+/-0.035 $\chi^2$/NDF:1695409.7/22

Right Out: 173.249+/-0.055 $\chi^2$/NDF: 4307420.2/18

Left In: 187.728+/-0.033 $\chi^2$/NDF:1366568.3/20

Left: 195.907+/-0.024 $\chi^2$/NDF: 3188940.4/43

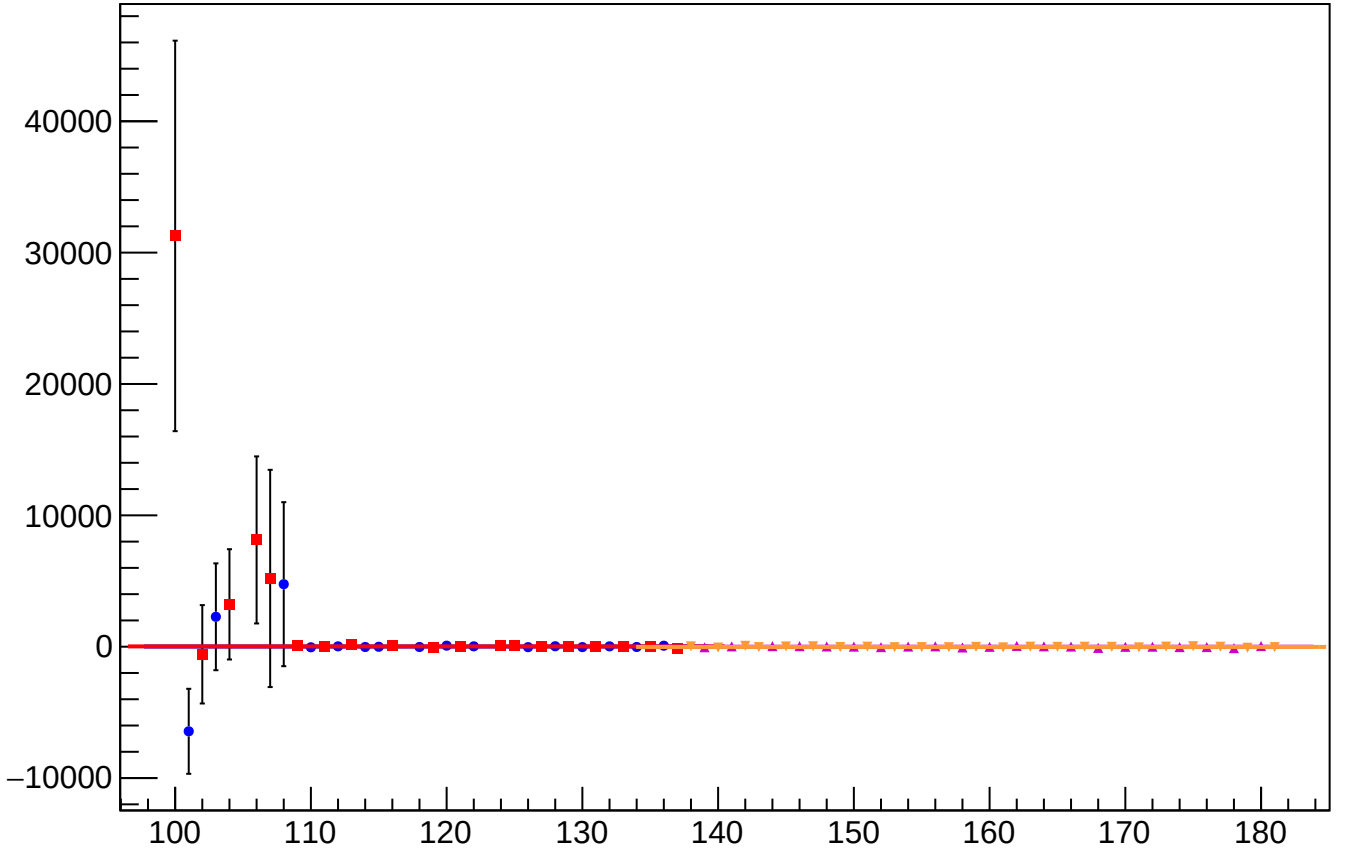
Right: 182.125+/-0.041 $\chi^2$/NDF: 8185907.1/34

In: 188.863+/-0.029 $\chi^2$/NDF:5194295.5/36

Out: 195.905+/-0.030 $\chi^2$/NDF:6236403.1/41

All: 192.323+/-0.021 $\chi^2$/NDF: 11459361.5/78

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: 13.713+/-13.062 $\chi^2$/NDF: 15.5/15

Left Out: -17.241+/-7.333 $\chi^2$/NDF:19.1/22

Right Out: 23.230+/-13.181 $\chi^2$/NDF: 28.7/18

Left In: -1.605+/-7.566 $\chi^2$/NDF:34.9/20

Left: -9.668+/-5.266 $\chi^2$/NDF: 56.2/43

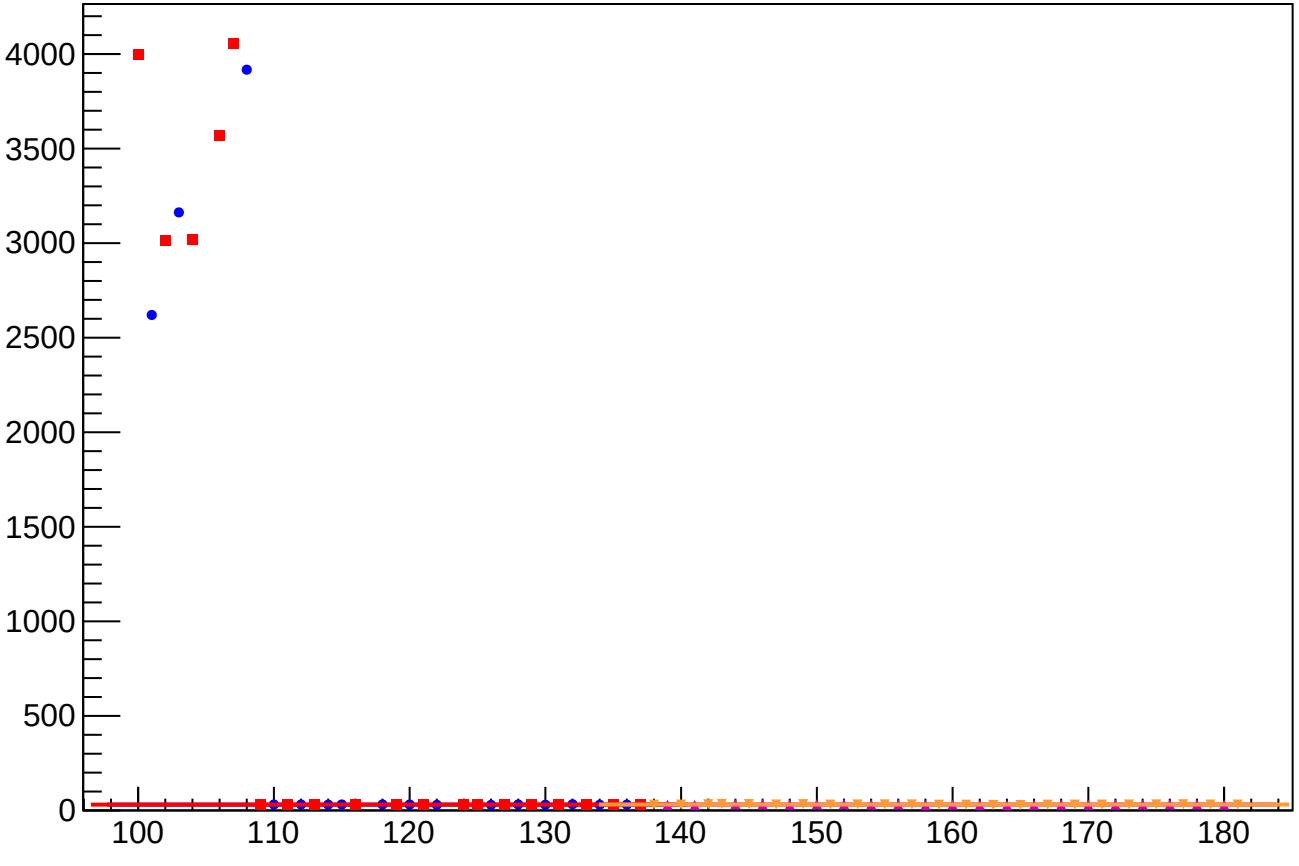
Right: 18.428+/-9.278 $\chi^2$/NDF: 44.4/34

In: 2.243+/-6.547 $\chi^2$/NDF:51.4/36

Out: -7.676+/-6.408 $\chi^2$/NDF:55.0/41

All: -2.823+/-4.580 $\chi^2$/NDF: 107.6/78

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 30.928+/-0.009 $\chi^2$/NDF: 3252607.8/15

Left Out: 31.324+/-0.005 $\chi^2$/NDF:62732.8/22

Right Out: 30.777+/-0.009 $\chi^2$/NDF: 3536234.6/18

Left In: 31.336+/-0.005 $\chi^2$/NDF:83979.6/20

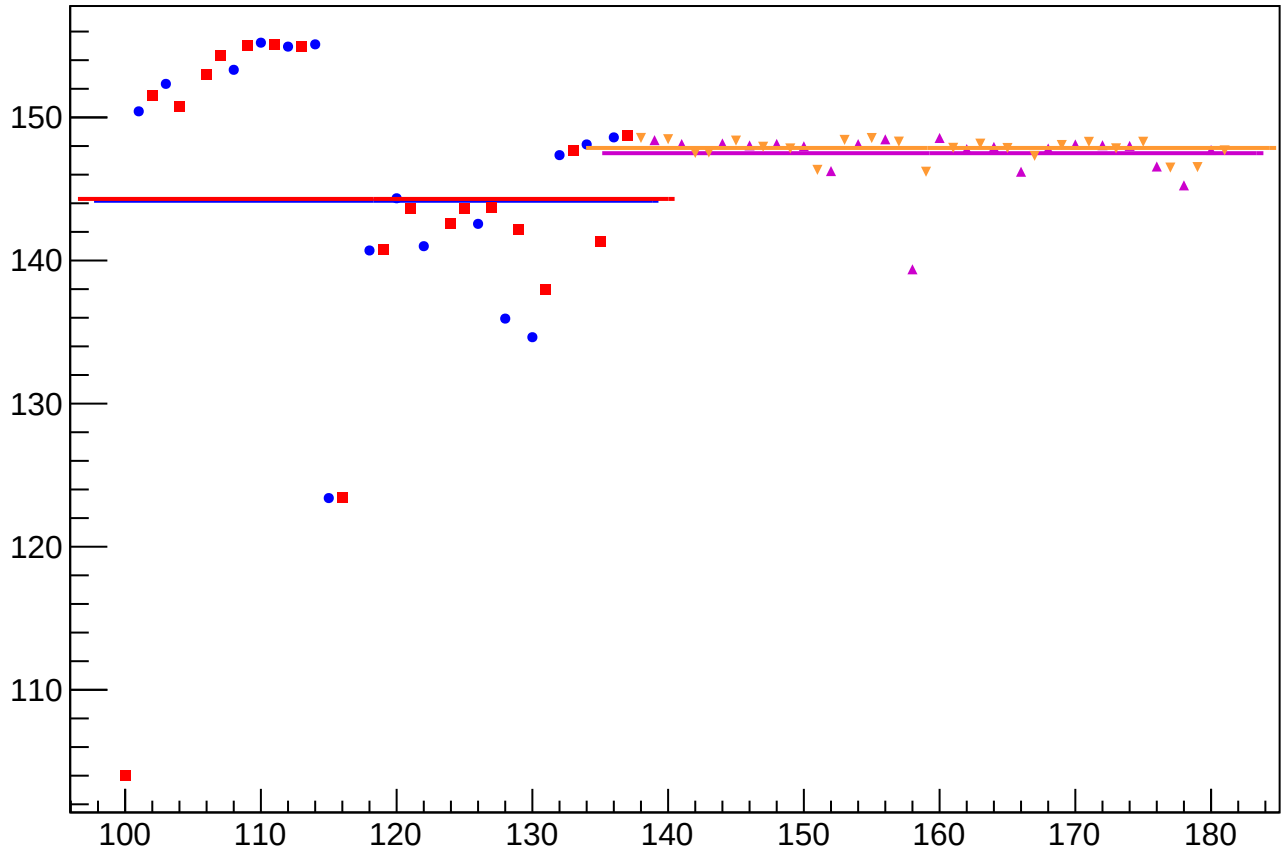
Left: 31.330+/-0.004 $\chi^2$/NDF: 146714.9/43

Right: 30.853+/-0.007 $\chi^2$/NDF: 6788975.5/34

In: 31.233+/-0.005 $\chi^2$/NDF:3338043.6/36

Out: 31.195+/-0.005 $\chi^2$/NDF:3601598.3/41

All: 31.214+/-0.003 $\chi^2$/NDF: 6939677.4/78


yield_bcm_target_mean vs Slug, Sign Corrected
150
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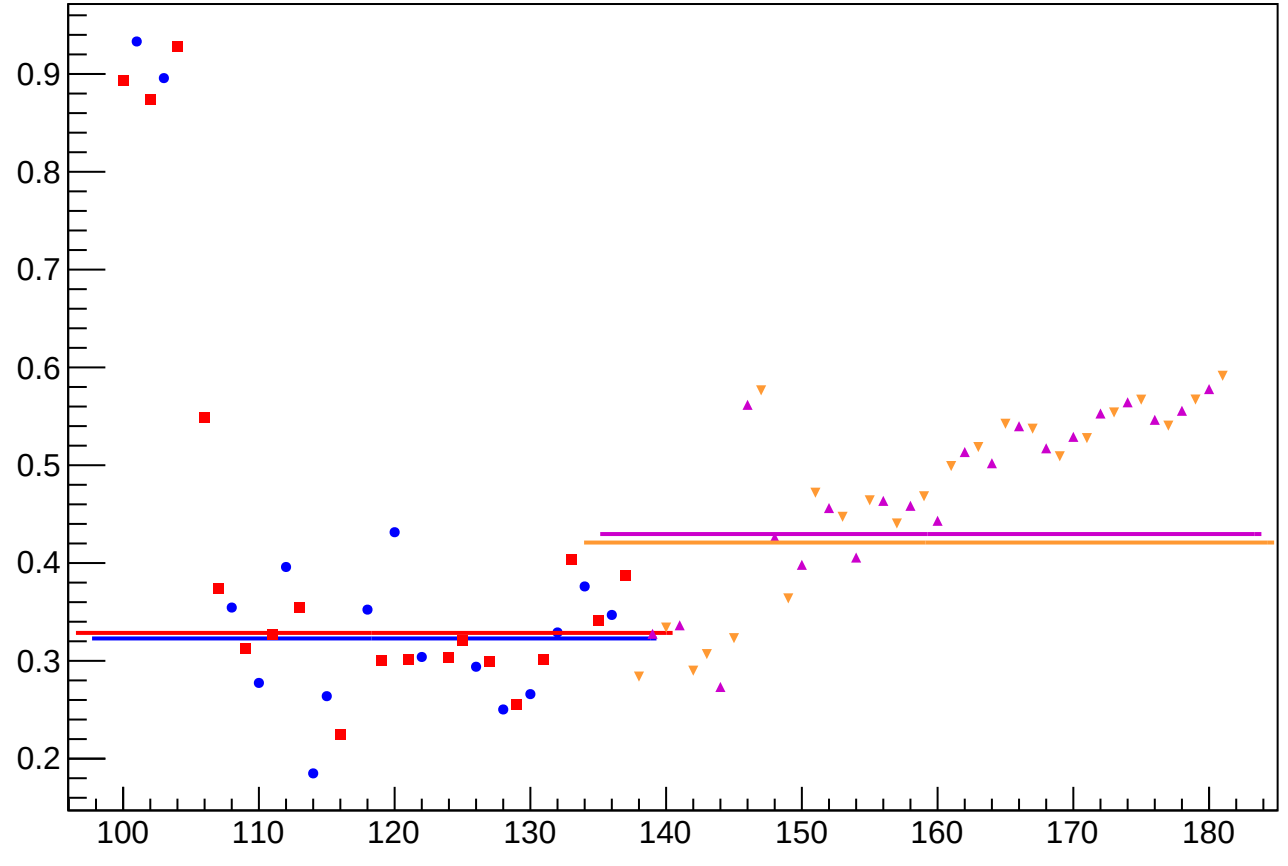
170
180
Right In: 144.176+/-0.000 χ²/NDF: 3724747268.7/15
Left Out: 147.867+/-0.000 χ²/NDF:44889484.4/22
Right Out: 144.304+/-0.000 χ²/NDF: 4264494940.7/18
Left In: 147.500+/-0.000 χ²/NDF:306158788.7/20
Left: 147.692+/-0.000 χ²/NDF: 357079714.0/43
Right: 144.240+/-0.000 χ²/NDF: 7989709366.0/34
In: 146.174+/-0.000 χ²/NDF:4409844168.2/36
Out: 146.532+/-0.000 χ²/NDF:4757444992.1/41
All: 146.357+/-0.000 χ²/NDF: 9176717290.3

# yield_bcm_target_rms vs Slug, Sign Corrected




Right In: 0.323+/-0.000 $\chi^2$/NDF: 1396024.1/15

Left Out: 0.421+/-0.000 $\chi^2$/NDF:2061120.5/22

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1304148.7/18

Left In: 0.430+/-0.000 $\chi^2$/NDF:1641692.8/20

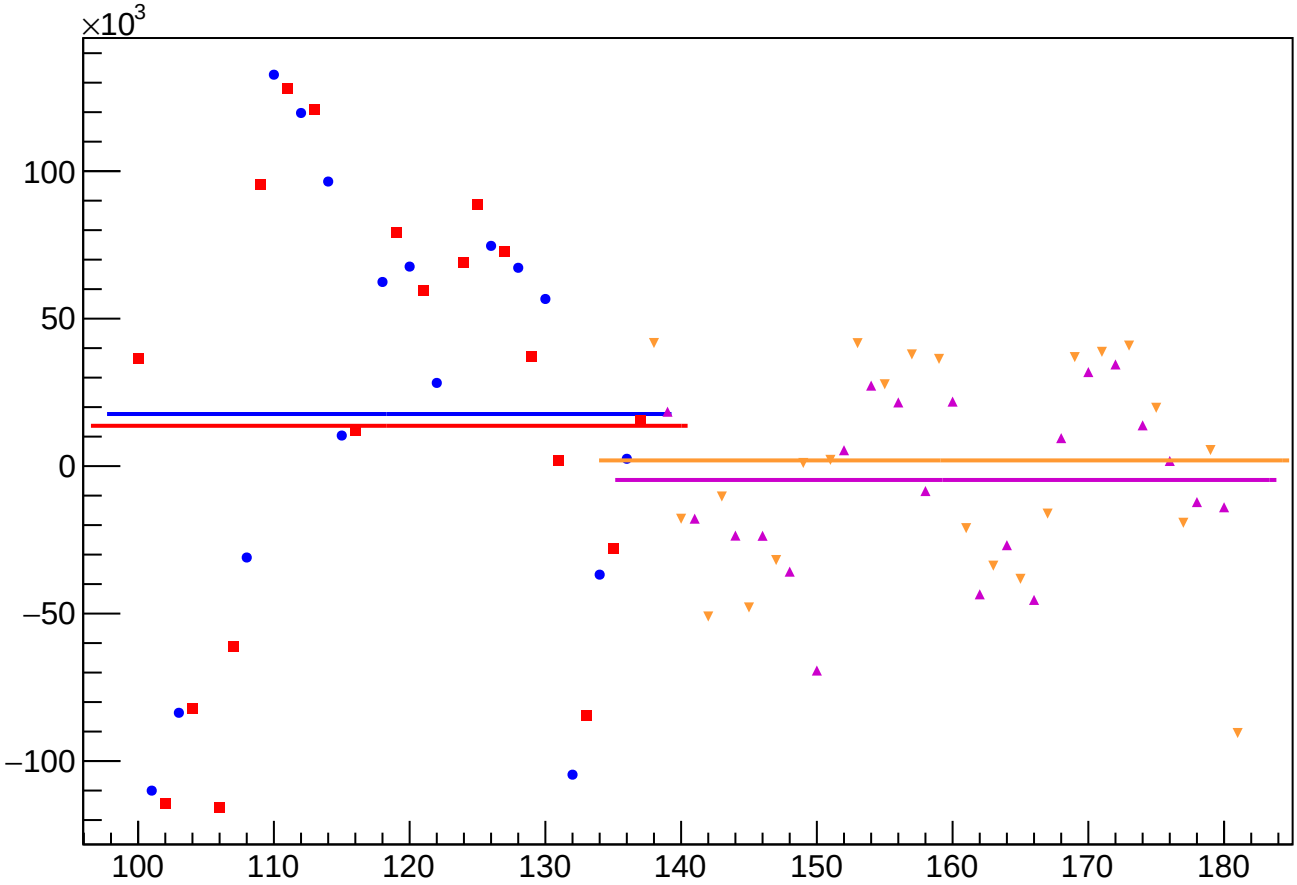
Left: 0.425+/-0.000 $\chi^2$/NDF: 3709602.5/43

Right: 0.326+/-0.000 $\chi^2$/NDF: 2702003.2/34

In: 0.387+/-0.000 $\chi^2$/NDF:3819348.4/36

Out: 0.386+/-0.000 $\chi^2$/NDF:3968008.0/41

All: 0.387+/-0.000 $\chi^2$/NDF: 7787427.4/78




Right In: 17663.790+/-2.006 $\chi^2$/NDF: 1398738701.8/15

Left Out: 1932.446+/-1.148 $\chi^2$/NDF:907770106.8/22

Right Out: 13666.312+/-1.925 $\chi^2$/NDF: 1856962869.6/18

Left In: -4696.678+/-1.169 $\chi^2$/NDF:587132078.3/20

Left: -1322.634+/-0.819 $\chi^2$/NDF: 1511268168.7/43

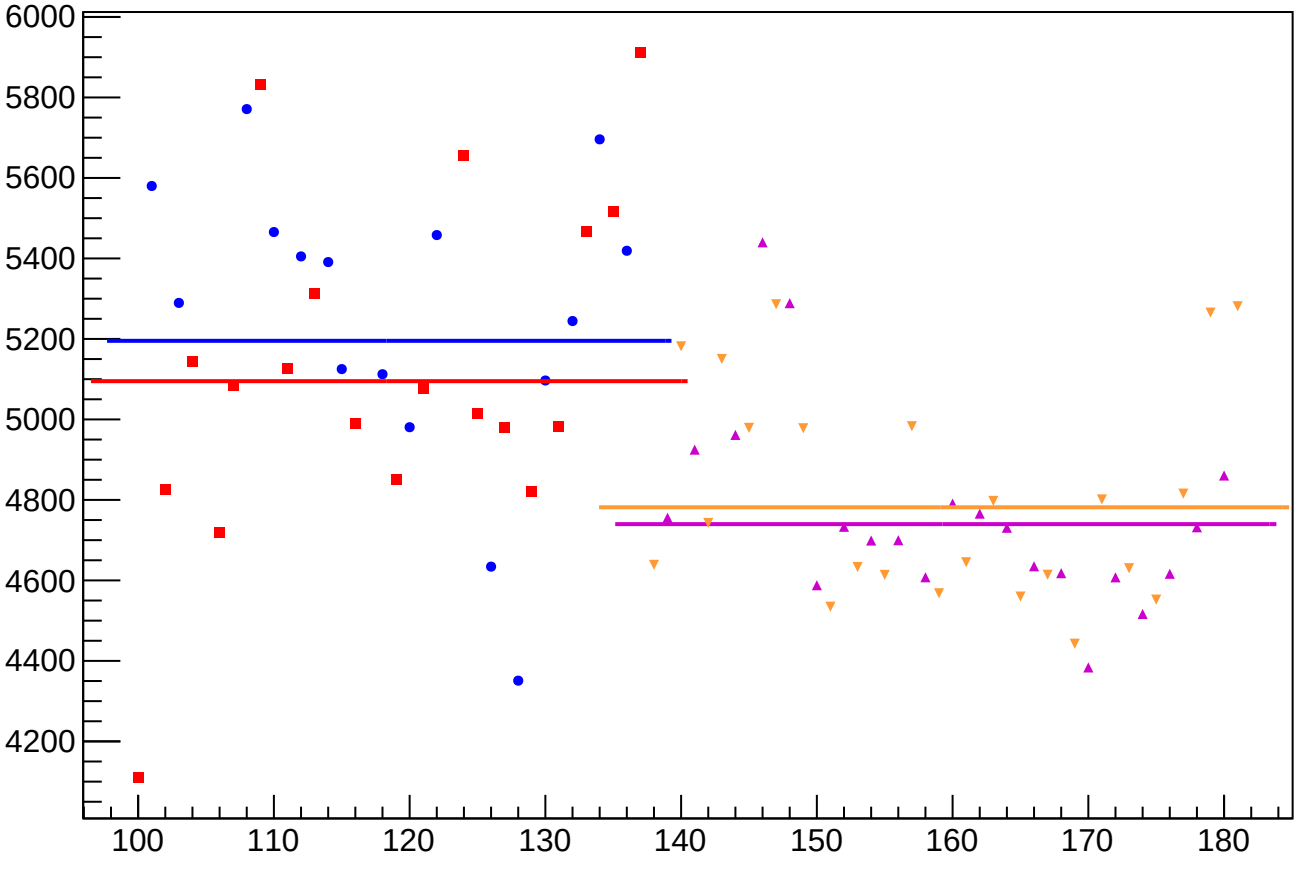
Right: 15583.102+/-1.389 $\chi^2$/NDF: 3257769505.5/3

In: 974.237+/-1.010 $\chi^2$/NDF:2078653966.6/36

Out: 5011.981+/-0.986 $\chi^2$/NDF:2792139300.2/41

All: 3041.354+/-0.706 $\chi^2$/NDF: 4878975563.

# yield_bcm_an_diff_rms vs Slug, Sign Corrected




Right In: 5195.298+/-1.418 $\chi^2$/NDF: 77166.0/15

Left Out: 4781.699+/-0.812 $\chi^2$/NDF:97618.5/22

Right Out: 5095.047+/-1.361 $\chi^2$/NDF: 59112.0/18

Left In: 4739.831+/-0.827 $\chi^2$/NDF:72167.7/20

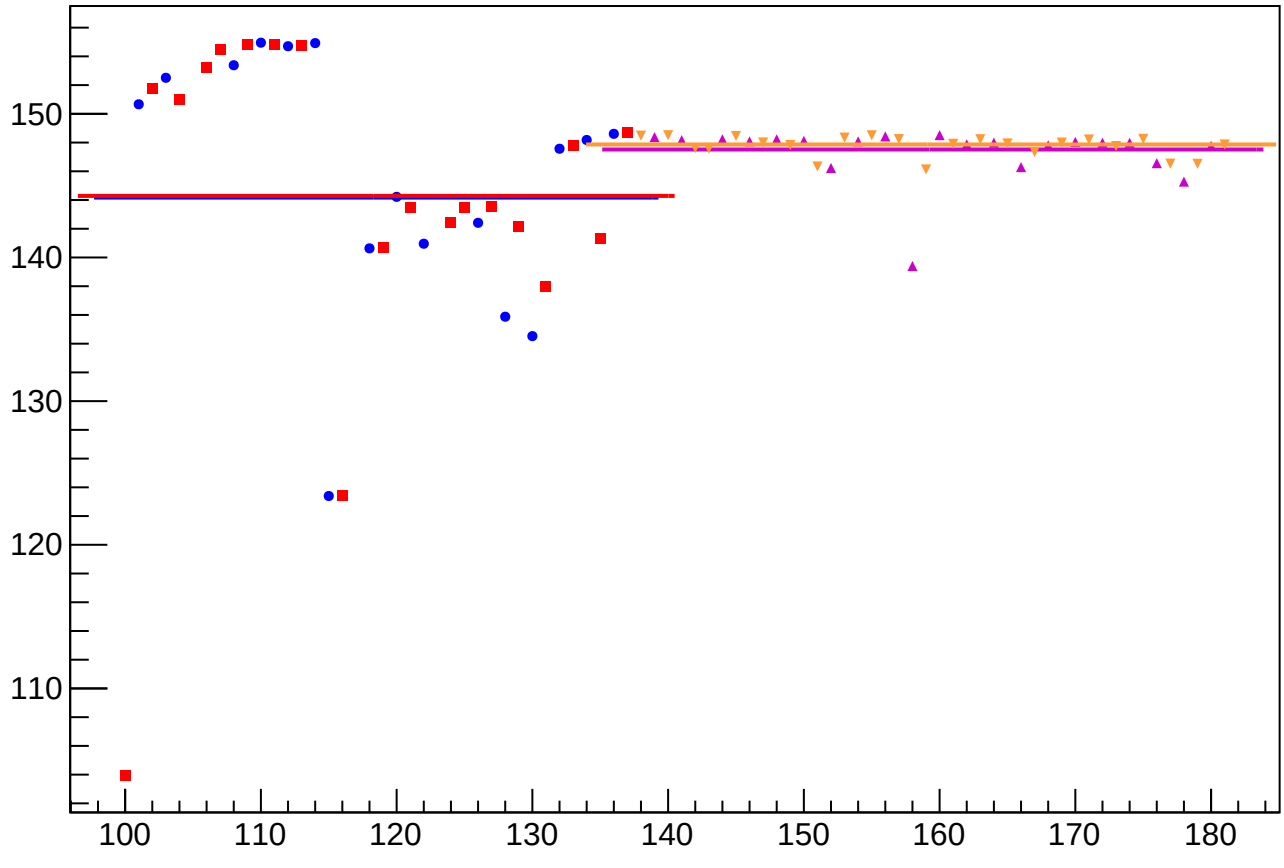
Left: 4761.141+/-0.579 $\chi^2$/NDF: 171091.8/43

Right: 5143.118+/-0.982 $\chi^2$/NDF: 138879.2/34

In: 4855.344+/-0.714 $\chi^2$/NDF:226326.7/36

Out: 4863.937+/-0.697 $\chi^2$/NDF:195819.5/41

All: 4859.743+/-0.499 $\chi^2$/NDF: 422220.4/78




Right In: 144.172+/-0.000 $\chi^2$/NDF: 3764836520.0/15

Left Out: 147.867+/-0.000 $\chi^2$/NDF:44452454.0/22

Right Out: 144.286+/-0.000 $\chi^2$/NDF: 4290223847.7/18

Left In: 147.517+/-0.000 $\chi^2$/NDF:306602131.0/20

Left: 147.700+/-0.000 $\chi^2$/NDF: 356627863.6/43

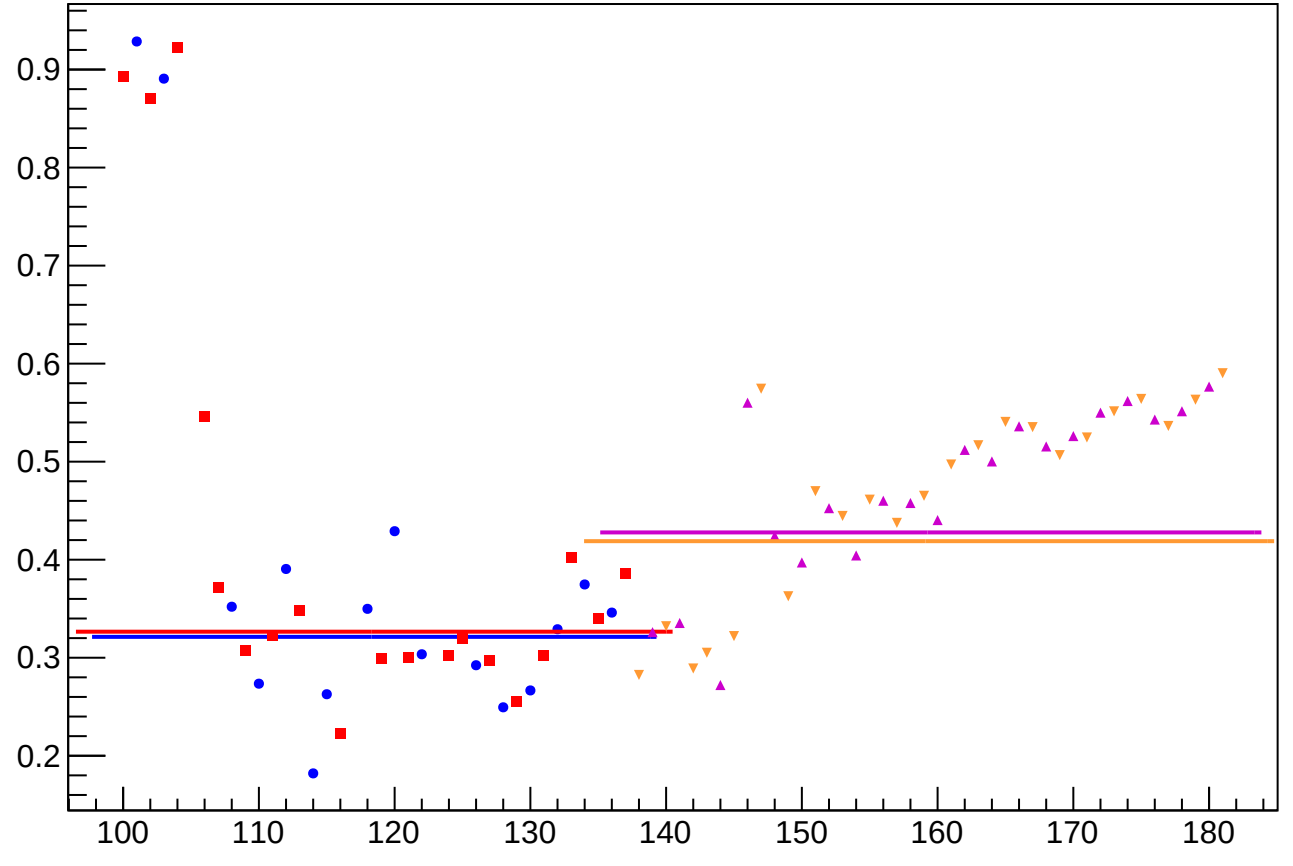
Right: 144.229+/-0.000 $\chi^2$/NDF: 8055437753.5/34

In: 146.180+/-0.000 $\chi^2$/NDF:4458726369.7/36

Out: 146.524+/-0.000 $\chi^2$/NDF:4792445424.6/41

All: 146.357+/-0.000 $\chi^2$/NDF: 9259909673.2

# yield_bcm_an_ds_rms vs Slug, Sign Corrected




Right In: 0.321+/-0.000 $\chi^2$/NDF: 1396250.7/15

Left Out: 0.419+/-0.000 $\chi^2$/NDF:2060178.4/22

Right Out: 0.327+/-0.000 $\chi^2$/NDF: 1302732.4/18

Left In: 0.428+/-0.000 $\chi^2$/NDF:1636481.5/20

Left: 0.423+/-0.000 $\chi^2$/NDF: 3703882.9/43

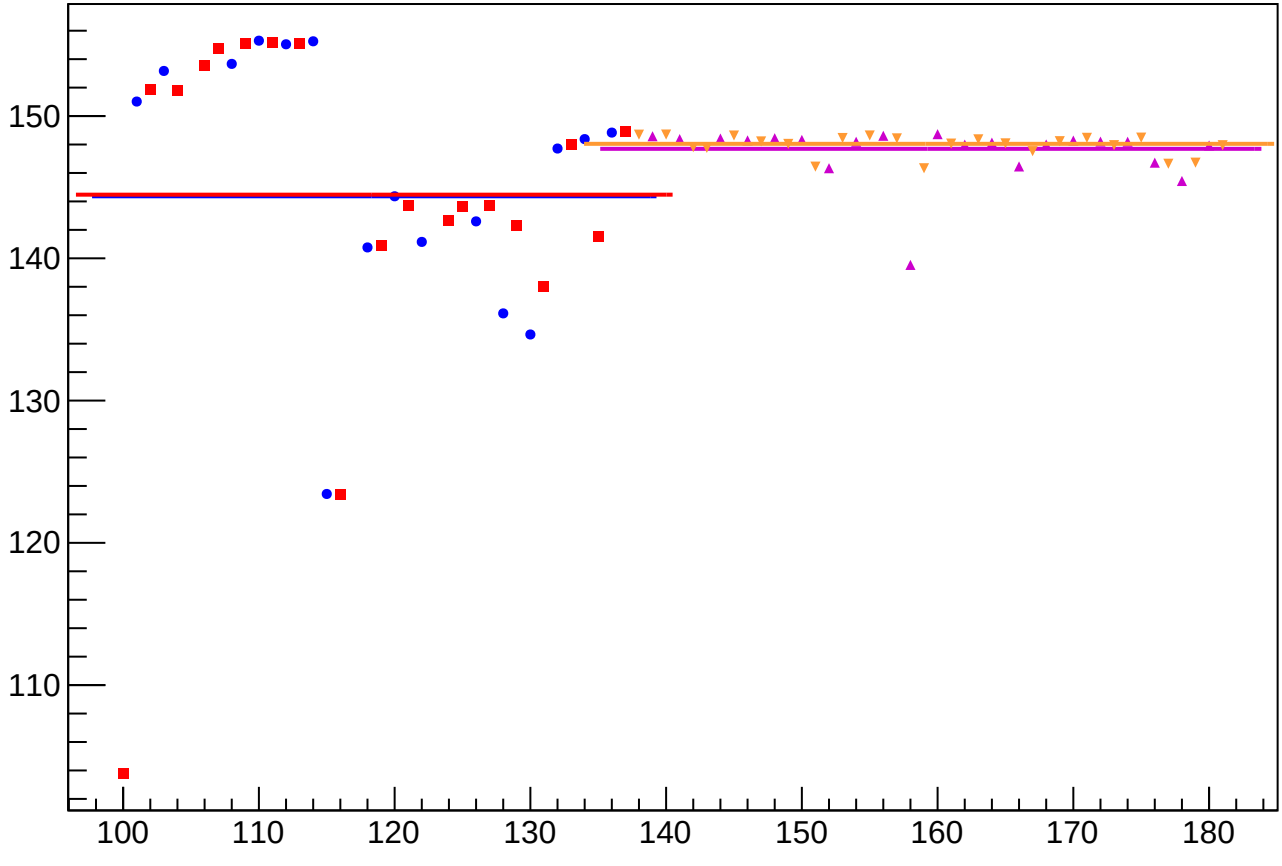
Right: 0.324+/-0.000 $\chi^2$/NDF: 2700575.6/34

In: 0.385+/-0.000 $\chi^2$/NDF:3818374.8/36

Out: 0.384+/-0.000 $\chi^2$/NDF:3971710.7/41

All: 0.385+/-0.000 $\chi^2$/NDF: 7790236.3/78

# yield_bcm_an_ds3_mean vs Slug, Sign Corrected




Right In: 144.361+/-0.000 $\chi^2$/NDF: 3758625293.6/15

Left Out: 148.048+/-0.000 $\chi^2$/NDF:44895834.2/22

Right Out: 144.475+/-0.000 $\chi^2$/NDF: 4281975463.8/18

Left In: 147.696+/-0.000 $\chi^2$/NDF:311360168.1/20

Left: 147.880+/-0.000 $\chi^2$/NDF: 361833133.7/43

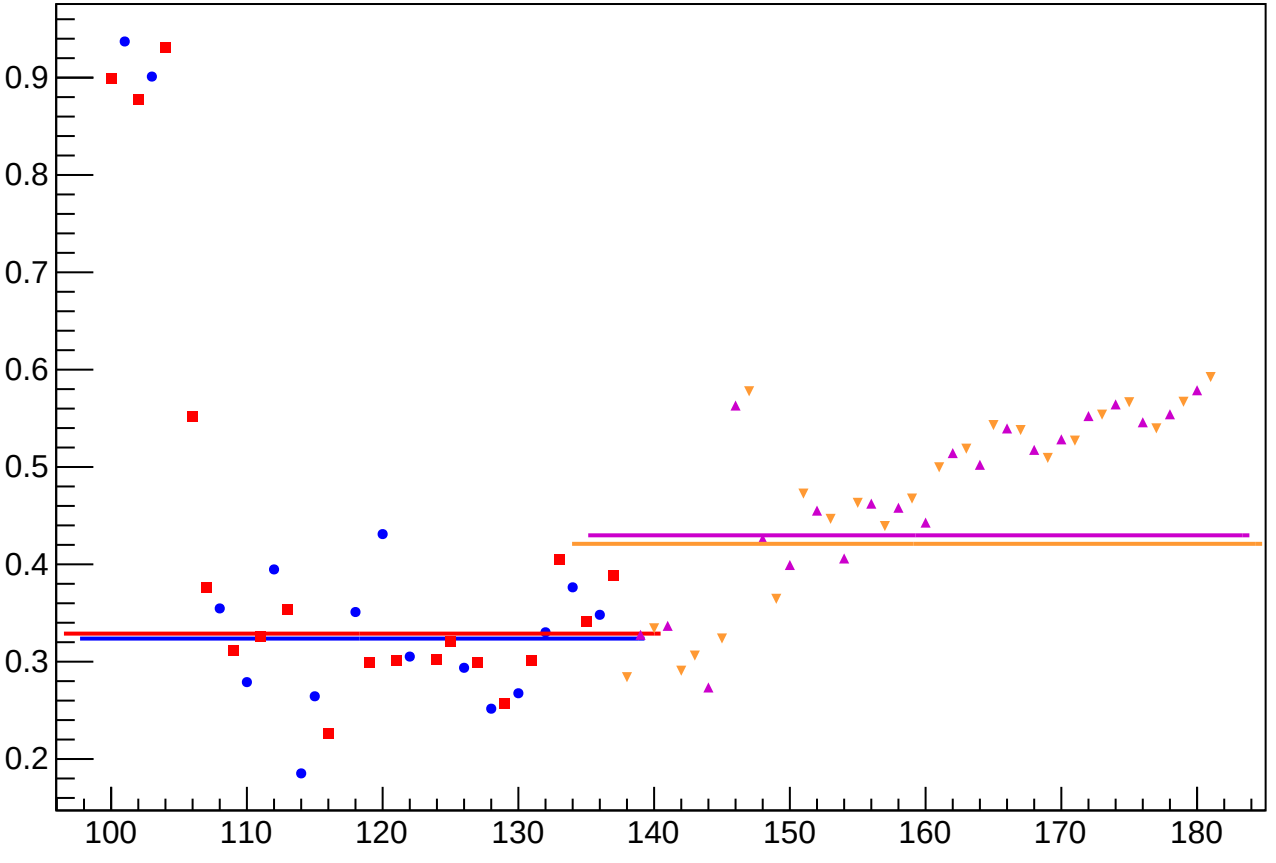
Right: 144.417+/-0.000 $\chi^2$/NDF: 8040967165.8/34

In: 146.368+/-0.000 $\chi^2$/NDF:4450318859.1/36

Out: 146.711+/-0.000 $\chi^2$/NDF:4777292425.6/41

All: 146.544+/-0.000 $\chi^2$/NDF: 9236210272.7

# yield_bcm_an_ds3_rms vs Slug, Sign Corrected




Right In: 0.324+/-0.000 $\chi^2$/NDF: 1392377.9/15

Left Out: 0.421+/-0.000 $\chi^2$/NDF:2057220.7/22

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1303222.2/18

Left In: 0.430+/-0.000 $\chi^2$/NDF:1635201.6/20

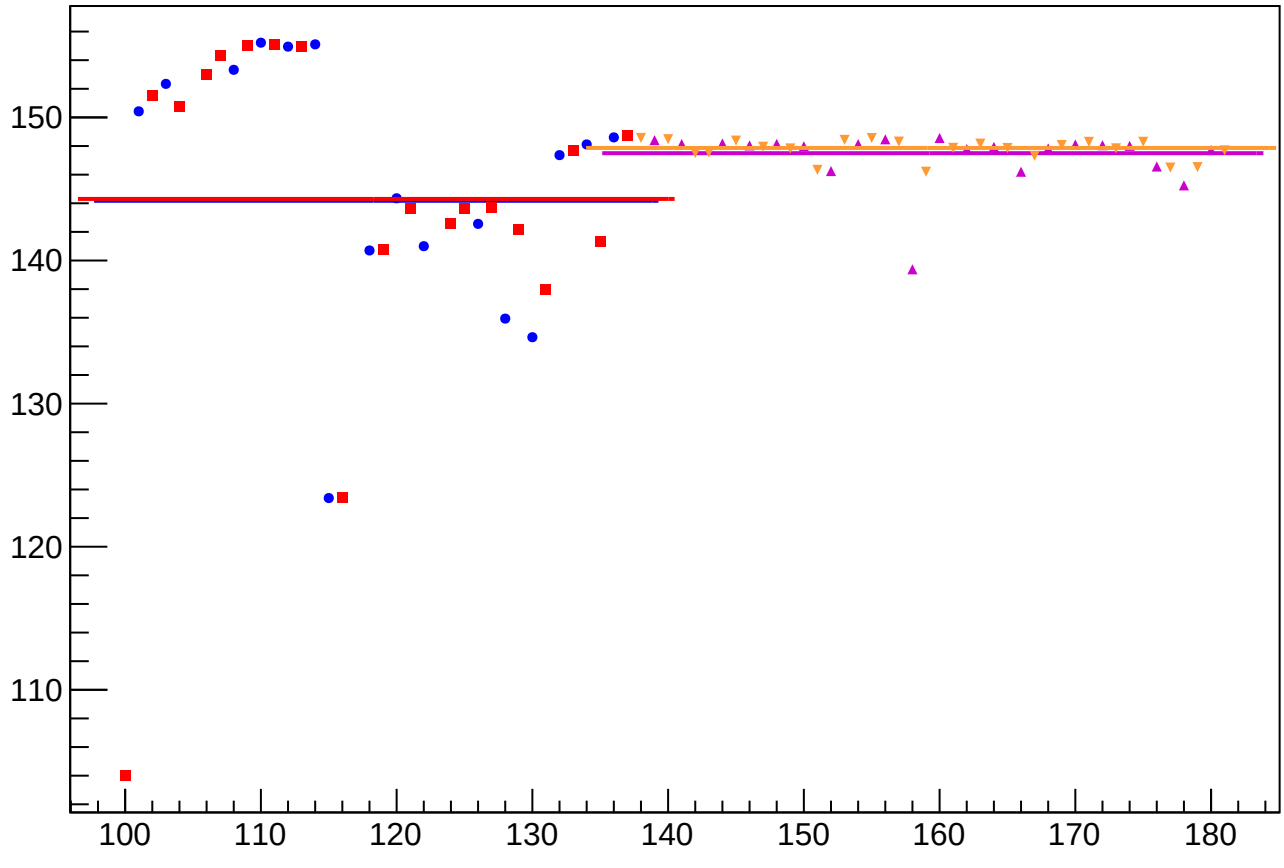
Left: 0.425+/-0.000 $\chi^2$/NDF: 3699279.1/43

Right: 0.326+/-0.000 $\chi^2$/NDF: 2697075.5/34

In: 0.388+/-0.000 $\chi^2$/NDF:3797121.8/36

Out: 0.387+/-0.000 $\chi^2$/NDF:3960558.5/41

All: 0.387+/-0.000 $\chi^2$/NDF: 7757833.9/78


yield_bcm_an_us_mean vs Slug, Sign Corrected
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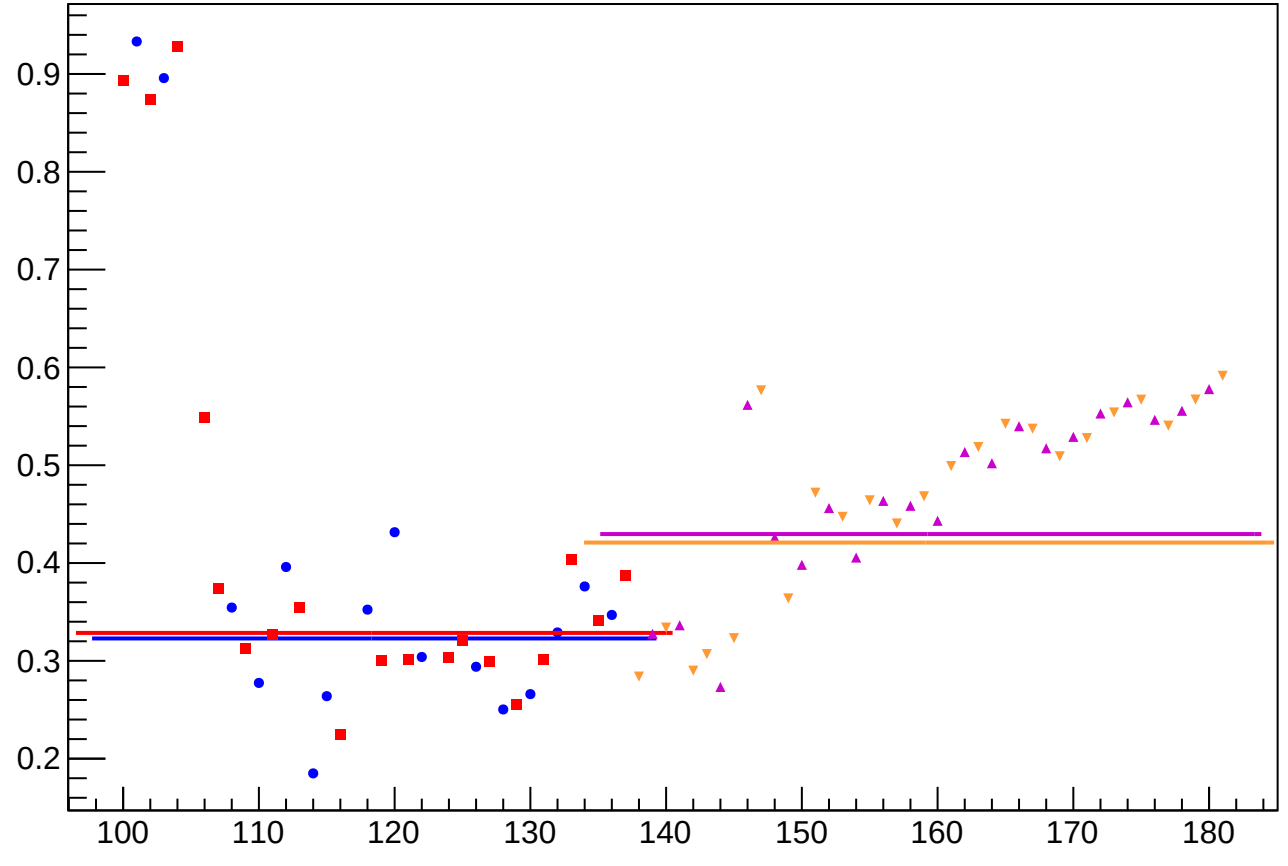
Right In: 144.176+/-0.000 χ²/NDF: 3724747268.7/15
Left Out: 147.867+/-0.000 χ²/NDF:44889484.4/22
Right Out: 144.304+/-0.000 χ²/NDF: 4264494940.7/18
Left In: 147.500+/-0.000 χ²/NDF:306158788.7/20
Left: 147.692+/-0.000 χ²/NDF: 357079714.0/43
Right: 144.240+/-0.000 χ²/NDF: 7989709366.0/34
In: 146.174+/-0.000 χ²/NDF:4409844168.2/36
Out: 146.532+/-0.000 χ²/NDF:4757444992.1/41
All: 146.357+/-0.000 χ²/NDF: 9176717290.3

# yield_bcm_an_us_rms vs Slug, Sign Corrected




Right In: 0.323+/-0.000 $\chi^2$/NDF: 1396024.1/15

Left Out: 0.421+/-0.000 $\chi^2$/NDF:2061120.5/22

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1304148.7/18

Left In: 0.430+/-0.000 $\chi^2$/NDF:1641692.8/20

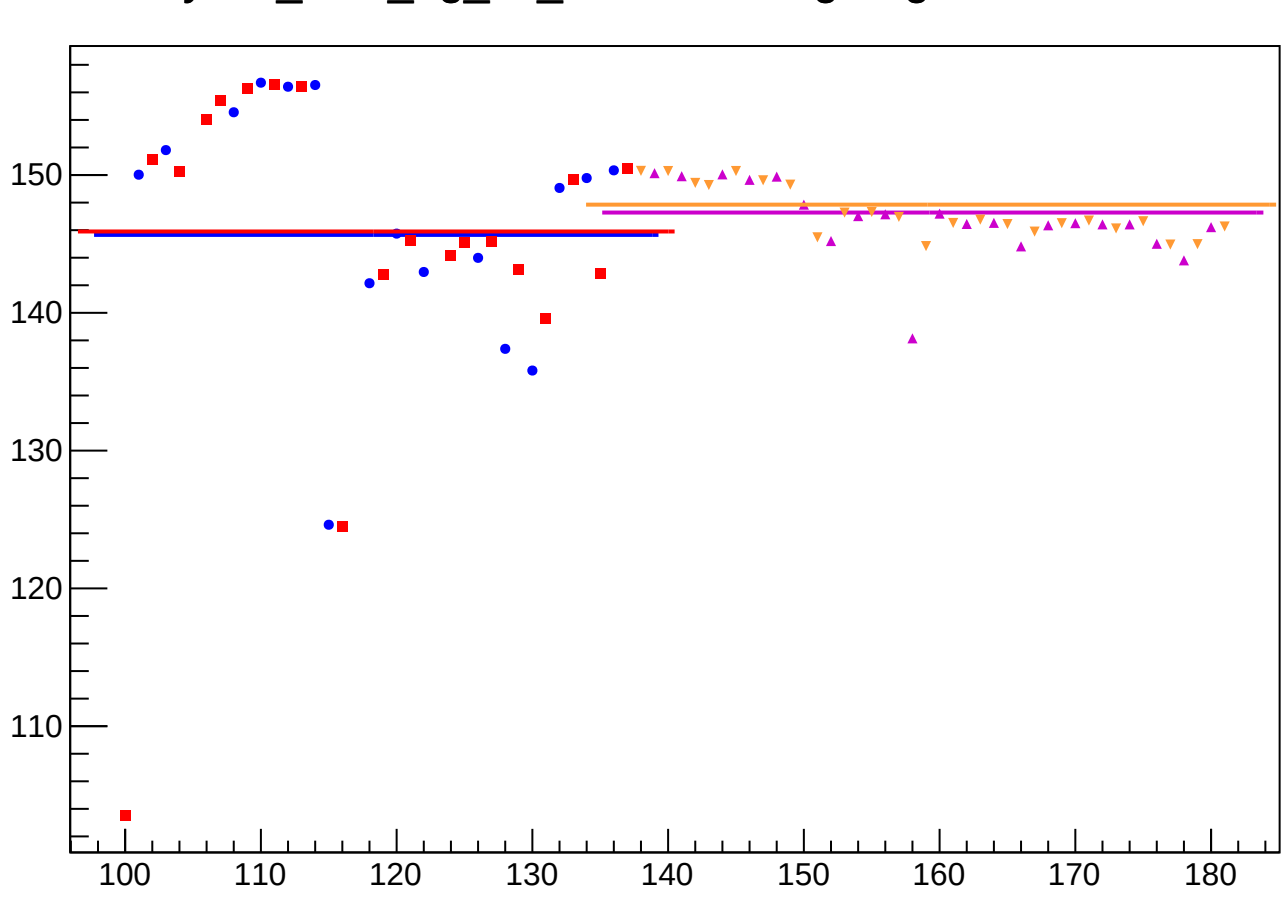
Left: 0.425+/-0.000 $\chi^2$/NDF: 3709602.5/43

Right: 0.326+/-0.000 $\chi^2$/NDF: 2702003.2/34

In: 0.387+/-0.000 $\chi^2$/NDF:3819348.4/36

Out: 0.386+/-0.000 $\chi^2$/NDF:3968008.0/41

All: 0.387+/-0.000 $\chi^2$/NDF: 7787427.4/78




Right In: 145.657+/-0.000 $\chi^2$/NDF: 3481495345.2/15

Left Out: 147.852+/-0.000 $\chi^2$/NDF:320405115.1/22

Right Out: 145.904+/-0.000 $\chi^2$/NDF: 3863011865.2/18

Left In: 147.278+/-0.000 $\chi^2$/NDF:615667595.1/20

Left: 147.577+/-0.000 $\chi^2$/NDF: 950075433.8/43

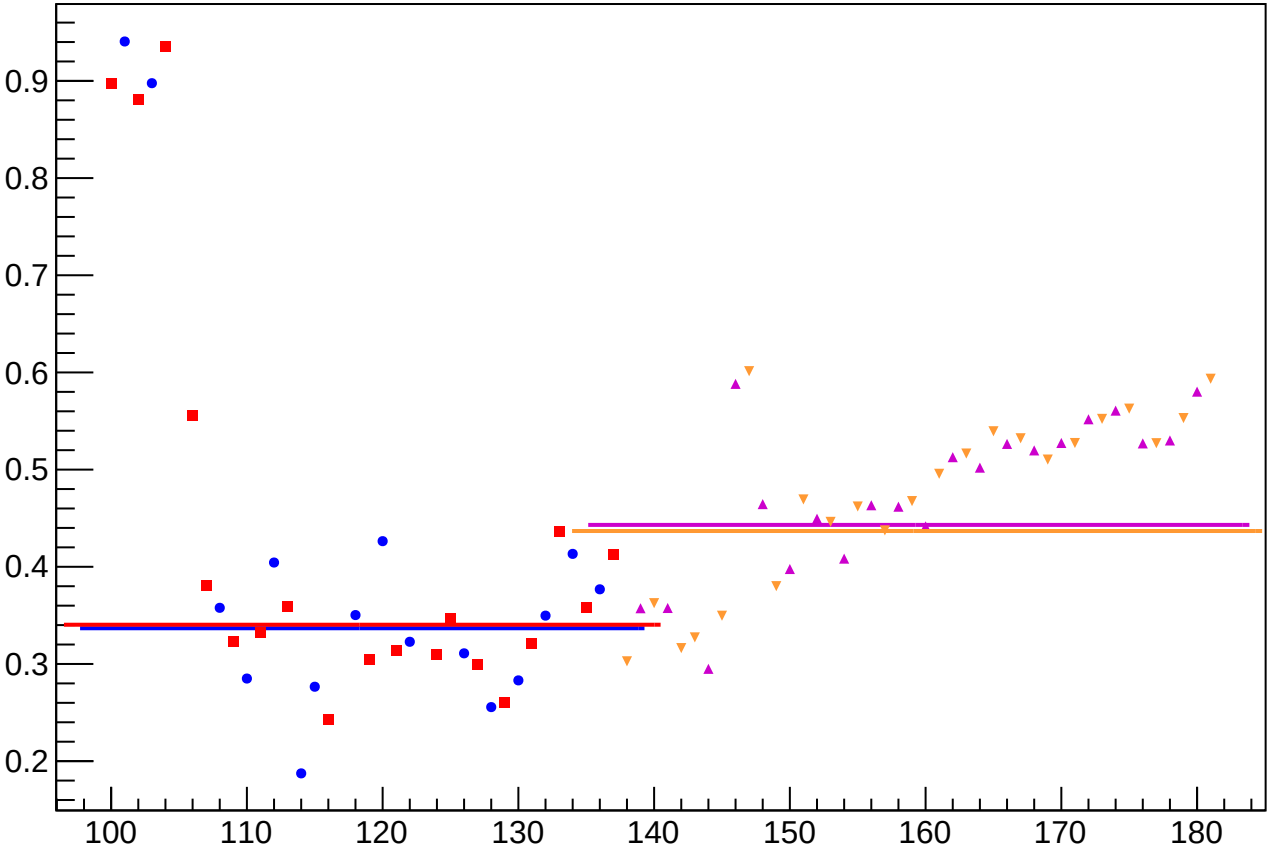
Right: 145.781+/-0.000 $\chi^2$/NDF: 7346117767.9/34

In: 146.645+/-0.000 $\chi^2$/NDF:4181174624.6/36

Out: 147.127+/-0.000 $\chi^2$/NDF:4308603961.2/41

All: 146.892+/-0.000 $\chi^2$/NDF: 8505786196.2

# yield_bcm_dg_us_rms vs Slug, Sign Corrected




Right In: 0.337+/-0.000 $\chi^2$/NDF: 1370512.1/15

Left Out: 0.437+/-0.000 $\chi^2$/NDF:1534515.1/22

Right Out: 0.340+/-0.000 $\chi^2$/NDF: 1274717.4/18

Left In: 0.443+/-0.000 $\chi^2$/NDF:1234368.3/20

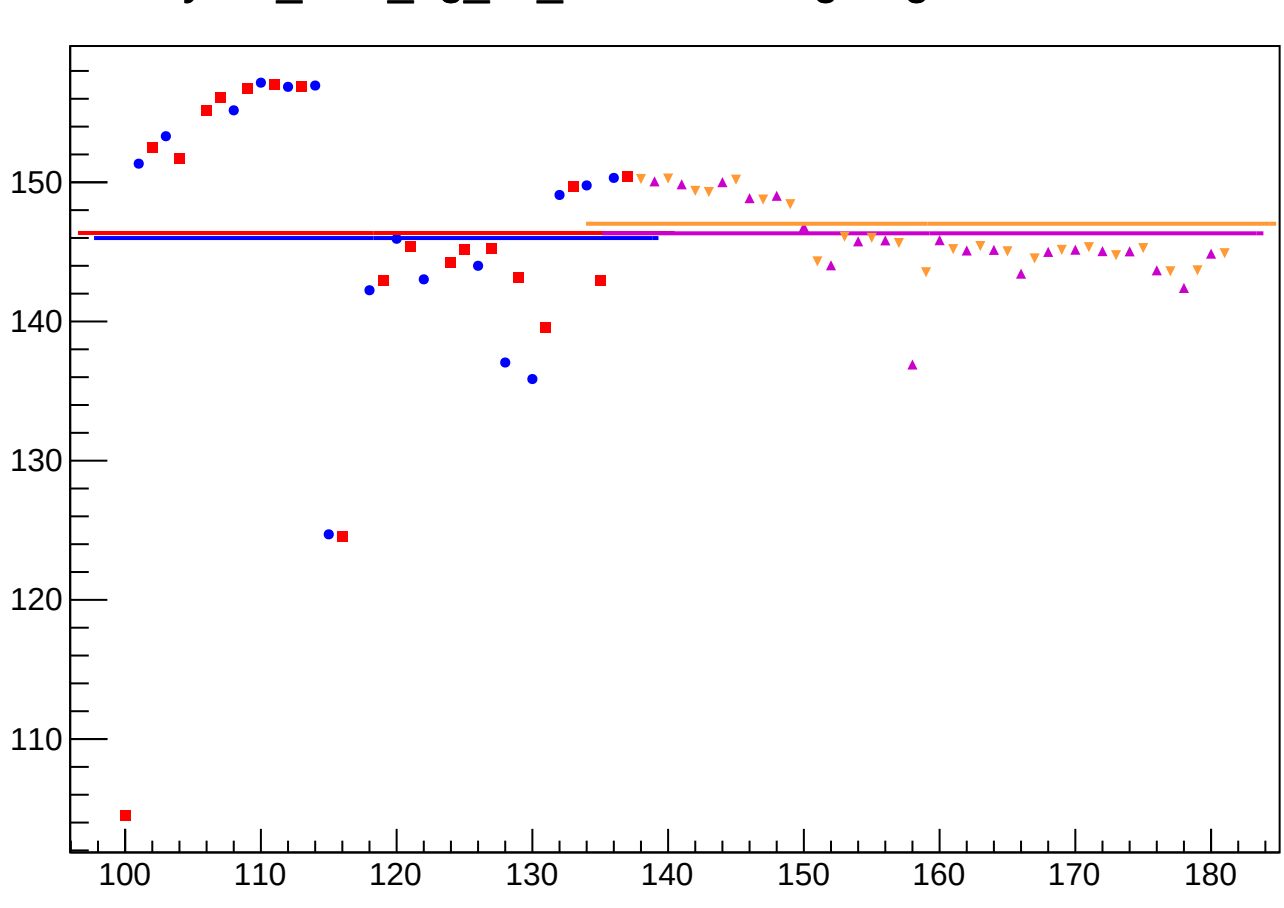
Left: 0.440+/-0.000 $\chi^2$/NDF: 2772247.3/43

Right: 0.339+/-0.000 $\chi^2$/NDF: 2645924.6/34

In: 0.402+/-0.000 $\chi^2$/NDF:3327881.2/36

Out: 0.401+/-0.000 $\chi^2$/NDF:3423175.2/41

All: 0.401+/-0.000 $\chi^2$/NDF: 6751110.9/78




Right In: 145.993+/-0.000 $\chi^2$/NDF: 3621634656.4/15

Left Out: 147.023+/-0.000 $\chi^2$/NDF:529996520.2/22

Right Out: 146.358+/-0.000 $\chi^2$/NDF: 3963122316.1/18

Left In: 146.334+/-0.000 $\chi^2$/NDF:818531892.1/20

Left: 146.693+/-0.000 $\chi^2$/NDF: 1368637625.6/43

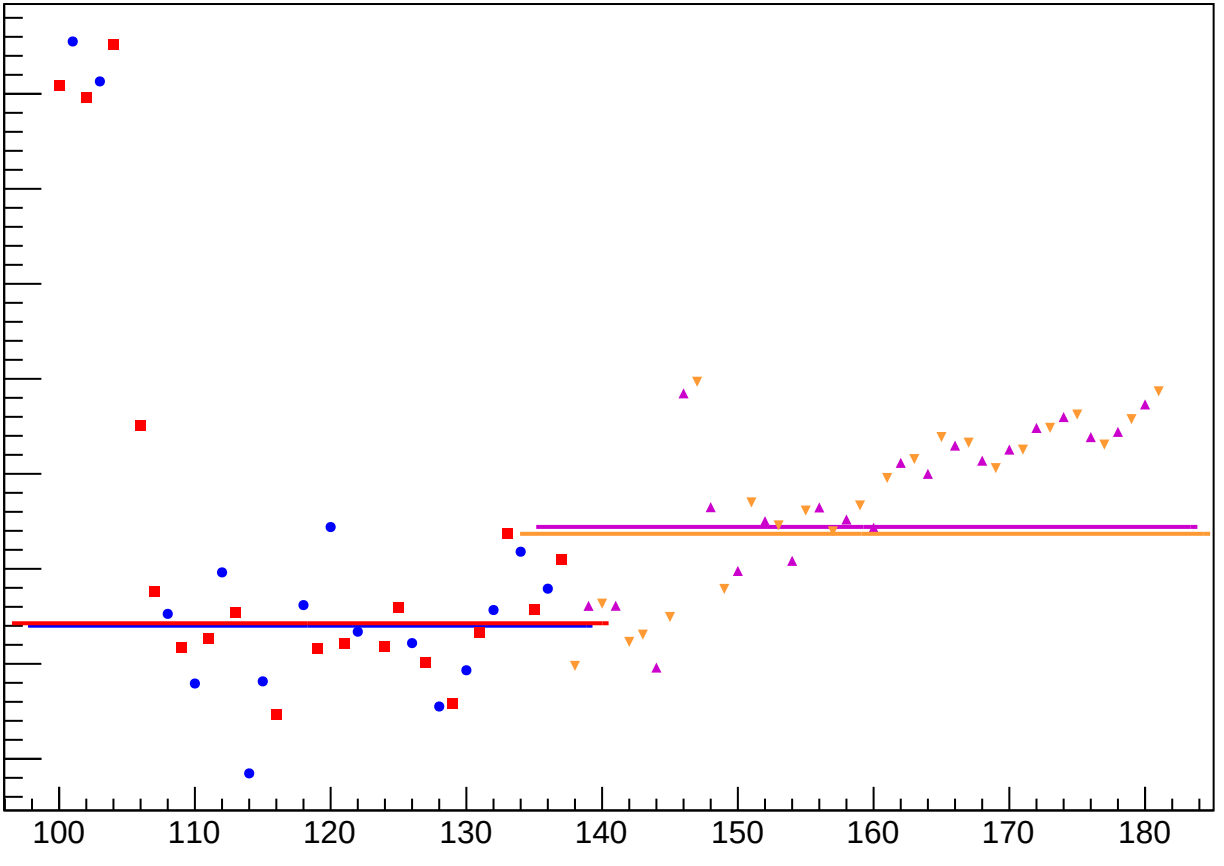
Right: 146.176+/-0.000 $\chi^2$/NDF: 7588198619.6/34

In: 146.202+/-0.000 $\chi^2$/NDF:4443838201.4/36

Out: 146.778+/-0.000 $\chi^2$/NDF:4507539716.3/41

All: 146.498+/-0.000 $\chi^2$/NDF: 8973957655.0

# yield_bcm_dg_ds_rms vs Slug, Sign Corrected




Right In: 0.340+/-0.000 $\chi^2$/NDF: 1393222.3/15

Left Out: 0.437+/-0.000 $\chi^2$/NDF:1517607.0/22

Right Out: 0.343+/-0.000 $\chi^2$/NDF: 1270731.2/18

Left In: 0.444+/-0.000 $\chi^2$/NDF:1198921.2/20

Left: 0.440+/-0.000 $\chi^2$/NDF: 2720990.5/43

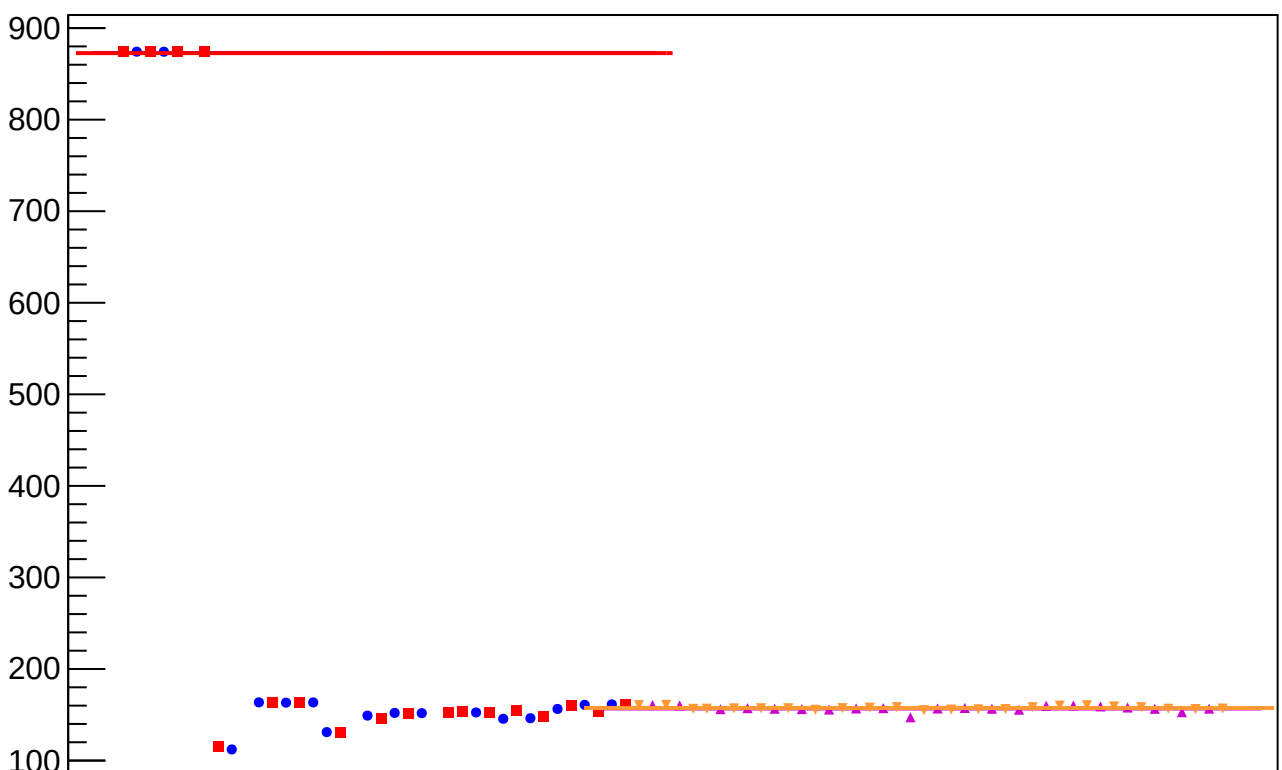
Right: 0.341+/-0.000 $\chi^2$/NDF: 2664290.2/34

In: 0.404+/-0.000 $\chi^2$/NDF:3272066.2/36

Out: 0.402+/-0.000 $\chi^2$/NDF:3367557.0/41

All: 0.403+/-0.000 $\chi^2$/NDF: 6640071.4/78

# yield_cav4bQ_mean vs Slug, Sign Corrected




Right In: 872.822+/-0.000 $\chi^2$/NDF: 7191496833472.3/15

Left Out: 157.457+/-0.000 $\chi^2$/NDF:96248961.8/22

Right Out: 872.676+/-0.000 $\chi^2$/NDF: 9167298490018.9/18

Left In: 156.873+/-0.000 $\chi^2$/NDF:227244360.7/20

Left: 157.172+/-0.000 $\chi^2$/NDF: 328876529.8/43

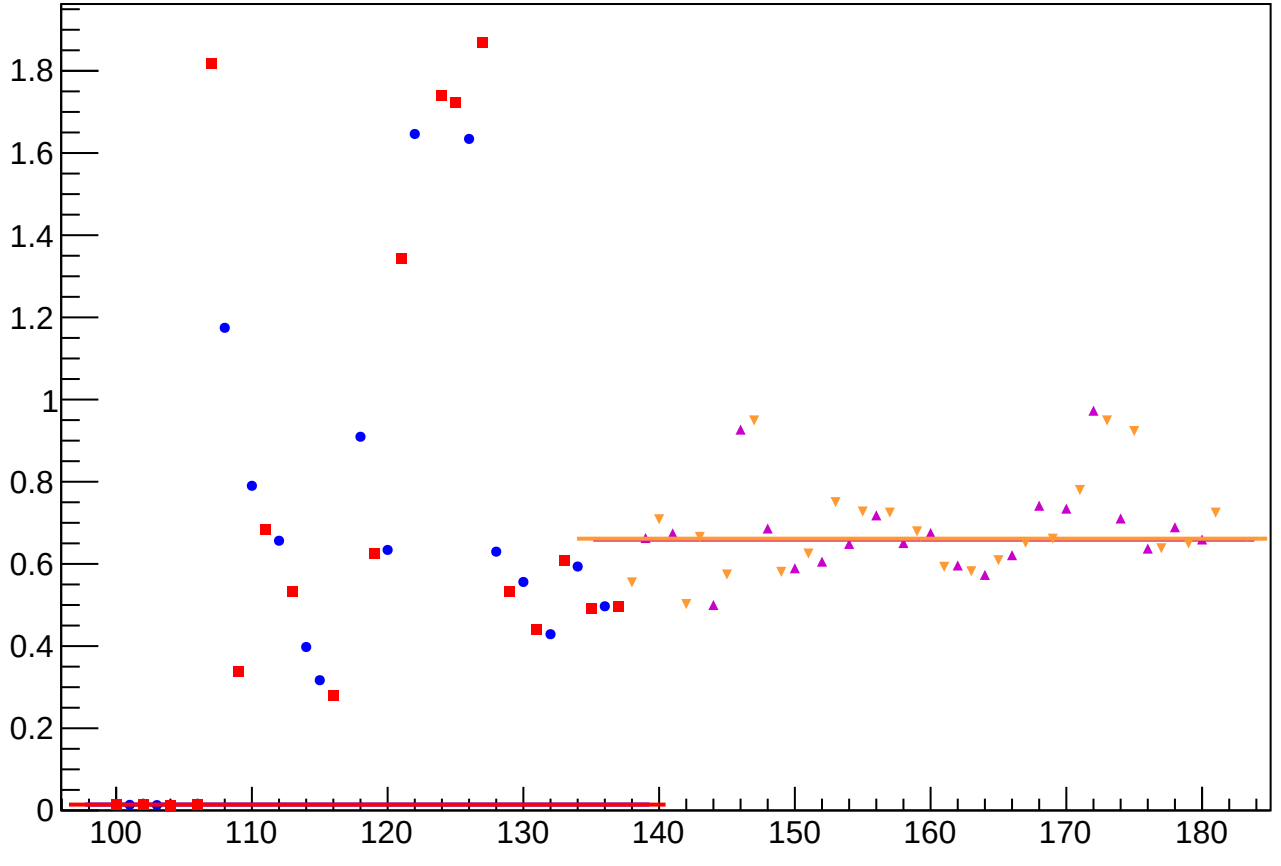
Right: 872.744+/-0.000 $\chi^2$/NDF: 16358876765227.4

In: 869.734+/-0.000 $\chi^2$/NDF:22942133709822.6/3

Out: 869.870+/-0.000 $\chi^2$/NDF:25642773805948.0

All: 869.807+/-0.000 $\chi^2$/NDF: 485849778309

# yield_cav4bQ_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 9622176.3/15

Left Out: 0.661+/-0.000 $\chi^2$/NDF:619338.3/22

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 9410025.7/18

Left In: 0.659+/-0.000 $\chi^2$/NDF:464584.3/20

Left: 0.660+/-0.000 $\chi^2$/NDF: 1084093.7/43

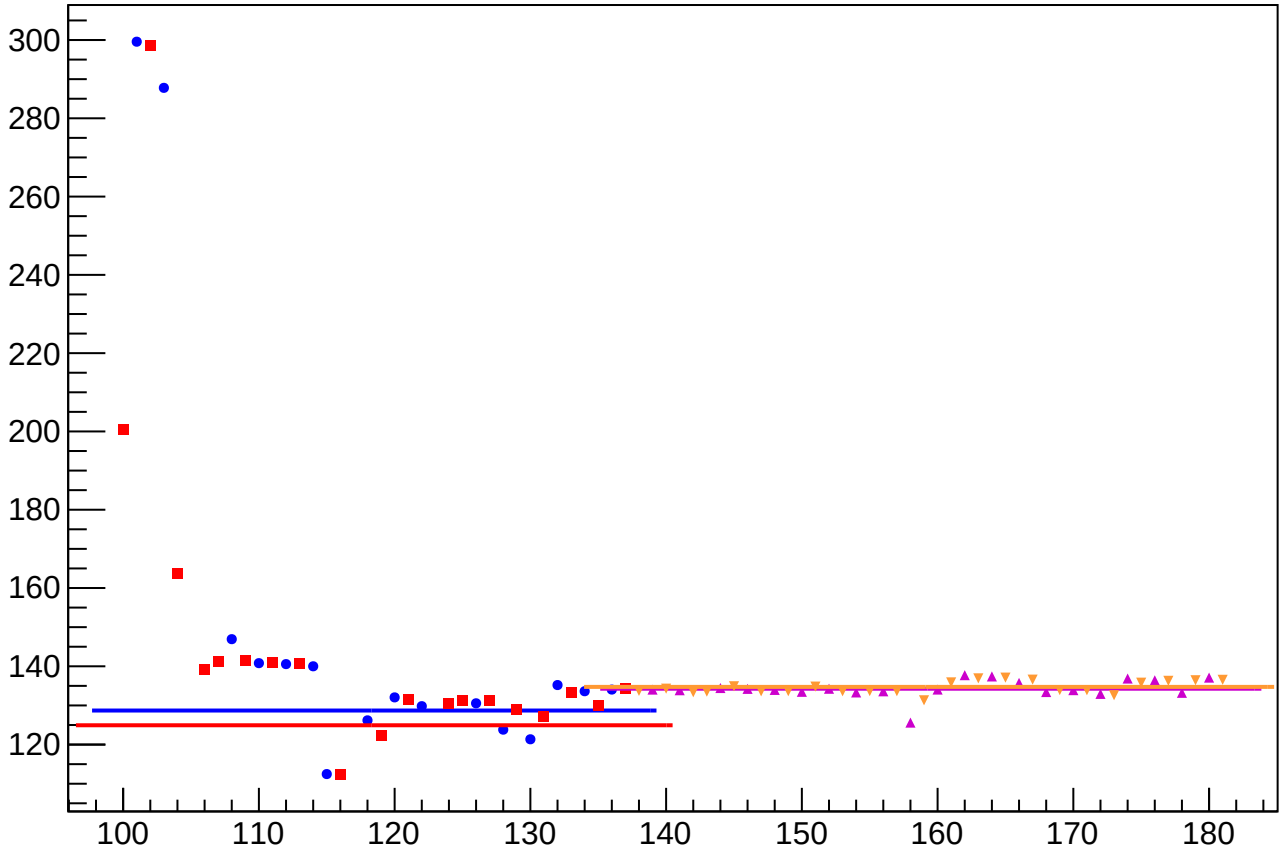
Right: 0.014+/-0.000 $\chi^2$/NDF: 19032353.5/34

In: 0.017+/-0.000 $\chi^2$/NDF:35632439.2/36

Out: 0.017+/-0.000 $\chi^2$/NDF:37010896.3/41

All: 0.017+/-0.000 $\chi^2$/NDF: 72644455.2/78

# yield_cav4cQ_mean vs Slug, Sign Corrected




Right In: 128.701+/-0.000 $\chi^2$/NDF: 1656162604.0/15

Left Out: 134.739+/-0.000 $\chi^2$/NDF:157156783.5/22

Right Out: 124.935+/-0.000 $\chi^2$/NDF: 1397923053.7/18

Left In: 134.270+/-0.000 $\chi^2$/NDF:440160493.0/20

Left: 134.517+/-0.000 $\chi^2$/NDF: 604166293.6/43

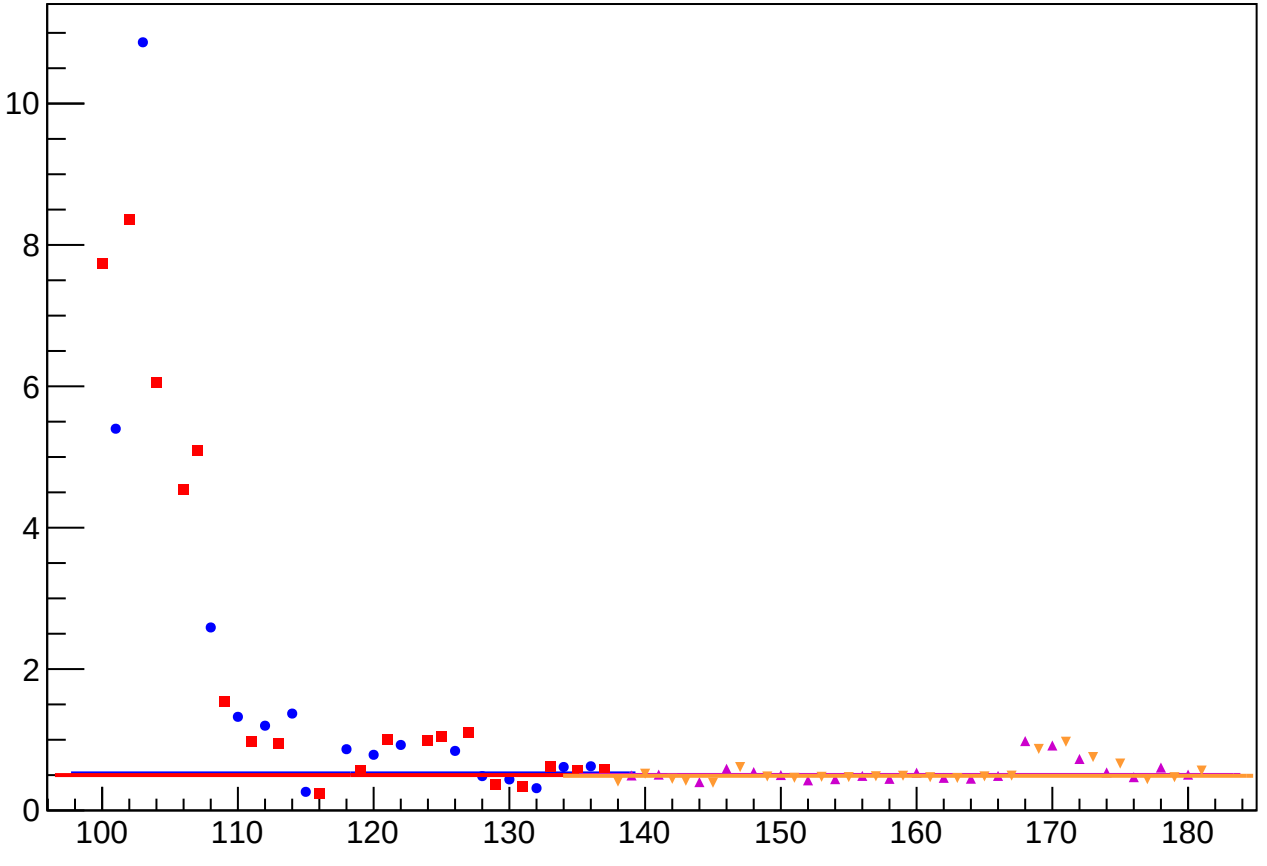
Right: 126.772+/-0.000 $\chi^2$/NDF: 3151132983.0/34

In: 133.246+/-0.000 $\chi^2$/NDF:2434726420.6/36

Out: 133.018+/-0.000 $\chi^2$/NDF:2666796910.5/41

All: 133.126+/-0.000 $\chi^2$/NDF: 5103508041.3

# yield_cav4cQ_rms vs Slug, Sign Corrected




Right In: 0.524+/-0.000 $\chi^2$/NDF: 4138409.3/15

Left Out: 0.490+/-0.000 $\chi^2$/NDF:1194428.7/22

Right Out: 0.501+/-0.000 $\chi^2$/NDF: 4884137.3/18

Left In: 0.502+/-0.000 $\chi^2$/NDF:1136035.0/20

Left: 0.496+/-0.000 $\chi^2$/NDF: 2339315.1/43

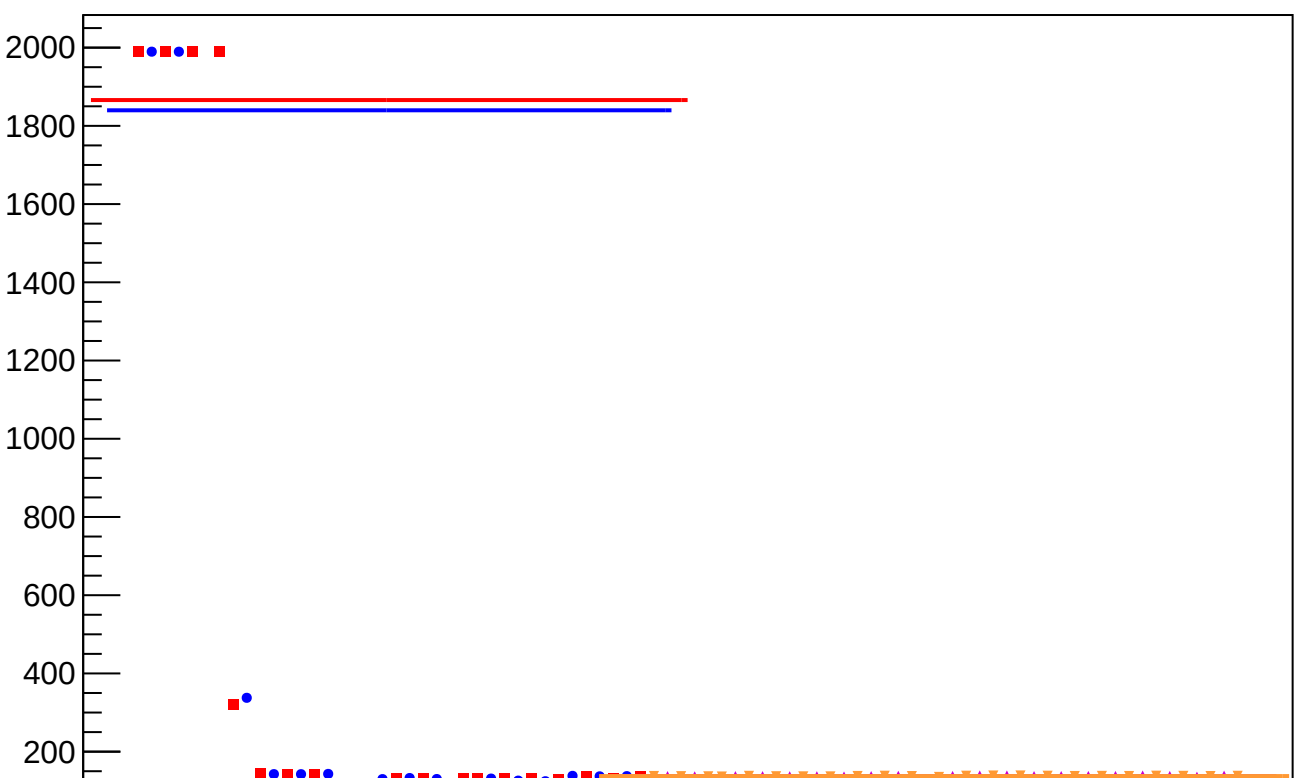
Right: 0.512+/-0.000 $\chi^2$/NDF: 9030118.3/34

In: 0.506+/-0.000 $\chi^2$/NDF:5284885.0/36

Out: 0.492+/-0.000 $\chi^2$/NDF:6081004.5/41

All: 0.499+/-0.000 $\chi^2$/NDF: 11381085.4/78

# yield_cav4dQ_mean vs Slug, Sign Corrected




Right In: 1839.782+/-0.000 $\chi^2$/NDF: 145916014549797.4/15

Left Out: 137.576+/-0.000 $\chi^2$/NDF:64069446.2/22

Right Out: 1865.968+/-0.000 $\chi^2$/NDF: 142769122276045.8/18

Left In: 137.342+/-0.000 $\chi^2$/NDF:248642275.8/20

Left: 137.465+/-0.000 $\chi^2$/NDF: 315060908.3/43

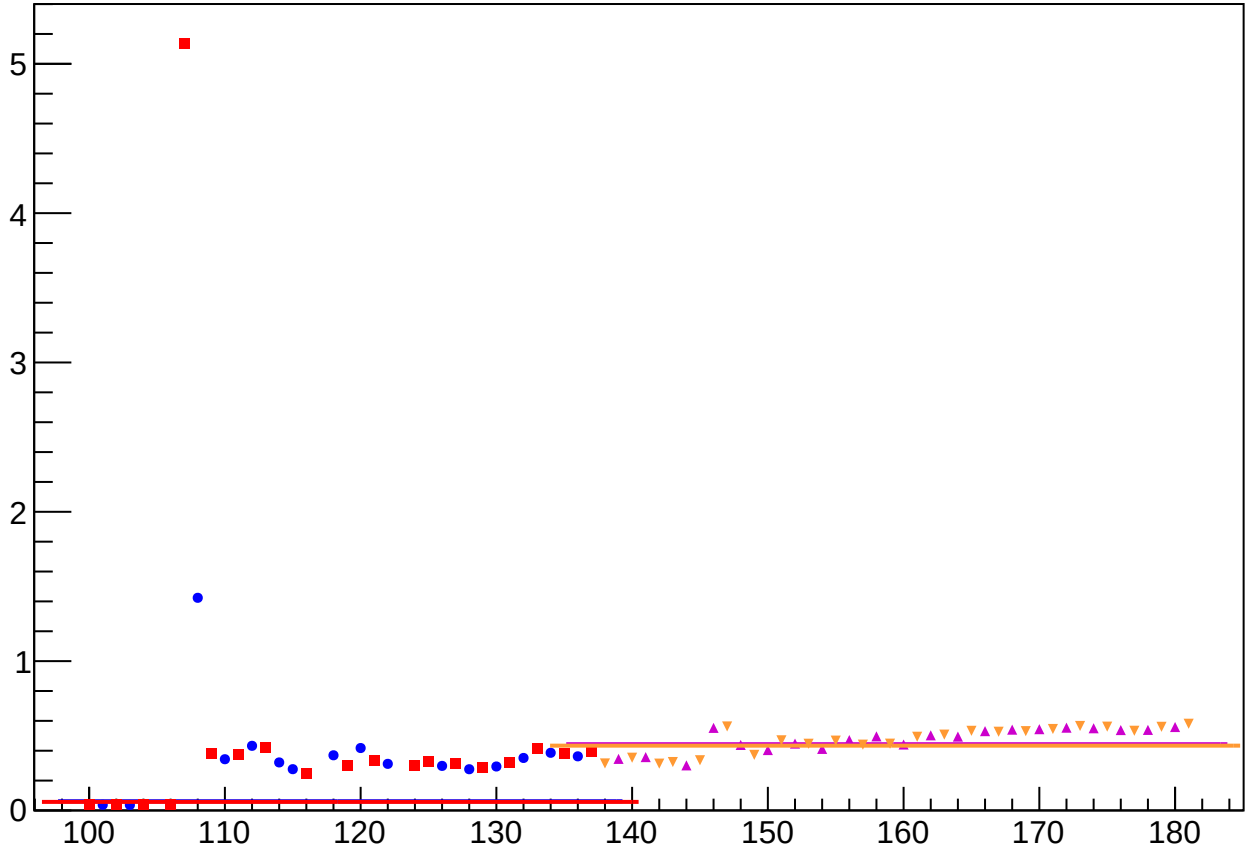
Right: 1853.888+/-0.000 $\chi^2$/NDF: 2888957986059

In: 1626.089+/-0.000 $\chi^2$/NDF:353400982702372.

Out: 1659.660+/-0.000 $\chi^2$/NDF:380226728782566

All: 1644.114+/-0.000 $\chi^2$/NDF: 7340223720

# yield_cav4dQ_rms vs Slug, Sign Corrected




Right In: 0.062+/-0.000 $\chi^2$/NDF: 8173578.9/15

Left Out: 0.434+/-0.000 $\chi^2$/NDF:1561775.4/22

Right Out: 0.057+/-0.000 $\chi^2$/NDF: 7741927.9/18

Left In: 0.444+/-0.000 $\chi^2$/NDF:1202240.7/20

Left: 0.439+/-0.000 $\chi^2$/NDF: 2772441.4/43

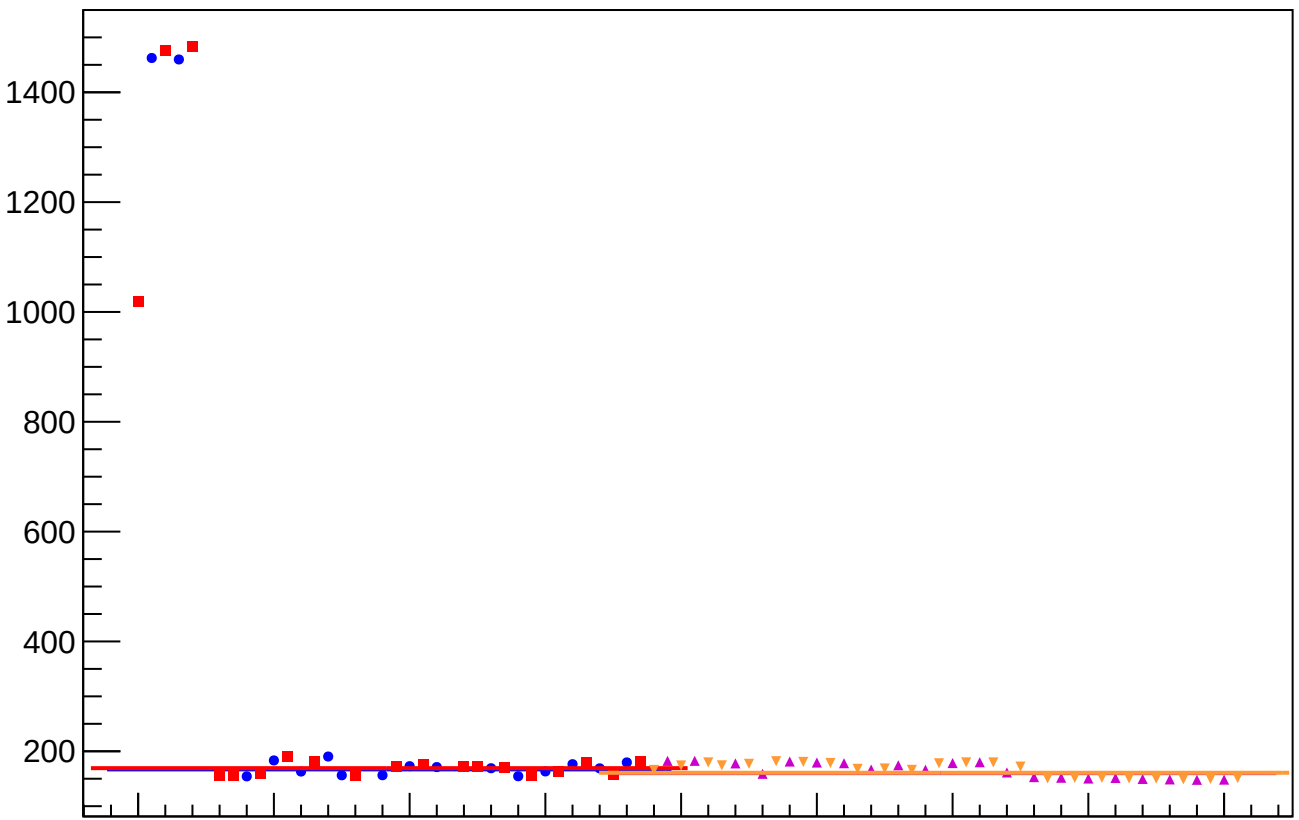
Right: 0.059+/-0.000 $\chi^2$/NDF: 15927866.9/34

In: 0.110+/-0.000 $\chi^2$/NDF:30280327.3/36

Out: 0.102+/-0.000 $\chi^2$/NDF:31861042.6/41

All: 0.106+/-0.000 $\chi^2$/NDF: 62180607.7/78

# yield_bcm0l02_mean vs Slug, Sign Corrected




Right In: 167.017+/-0.000 $\chi^2$/NDF: 14614977518.5/15

Left Out: 160.860+/-0.000 $\chi^2$/NDF:3627287442.5/22

Right Out: 169.257+/-0.000 $\chi^2$/NDF: 16317542946.8/18

Left In: 160.199+/-0.000 $\chi^2$/NDF:3711042195.0/20

Left: 160.541+/-0.000 $\chi^2$/NDF: 7343410313.2/43

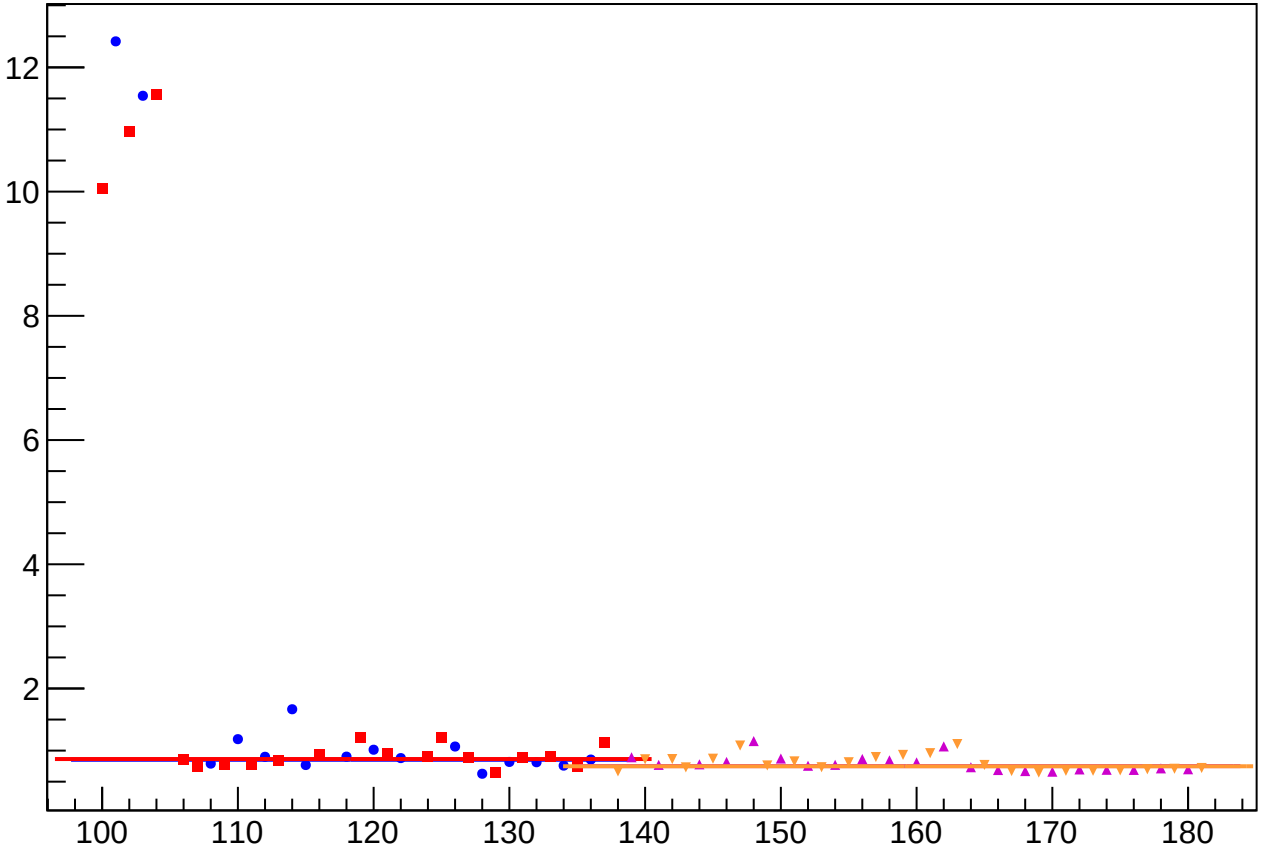
Right: 168.153+/-0.000 $\chi^2$/NDF: 30946000130.2/34

In: 161.497+/-0.000 $\chi^2$/NDF:18525299098.0/36

Out: 162.410+/-0.000 $\chi^2$/NDF:20258121793.5/41

All: 161.967+/-0.000 $\chi^2$/NDF: 38795354439.

# yield_bcm0l02_rms vs Slug, Sign Corrected




Right In: 0.853+/-0.000 $\chi^2$/NDF: 2302297.2/15

Left Out: 0.748+/-0.000 $\chi^2$/NDF:541747.7/22

Right Out: 0.864+/-0.000 $\chi^2$/NDF: 2209232.6/18

Left In: 0.751+/-0.000 $\chi^2$/NDF:436188.9/20

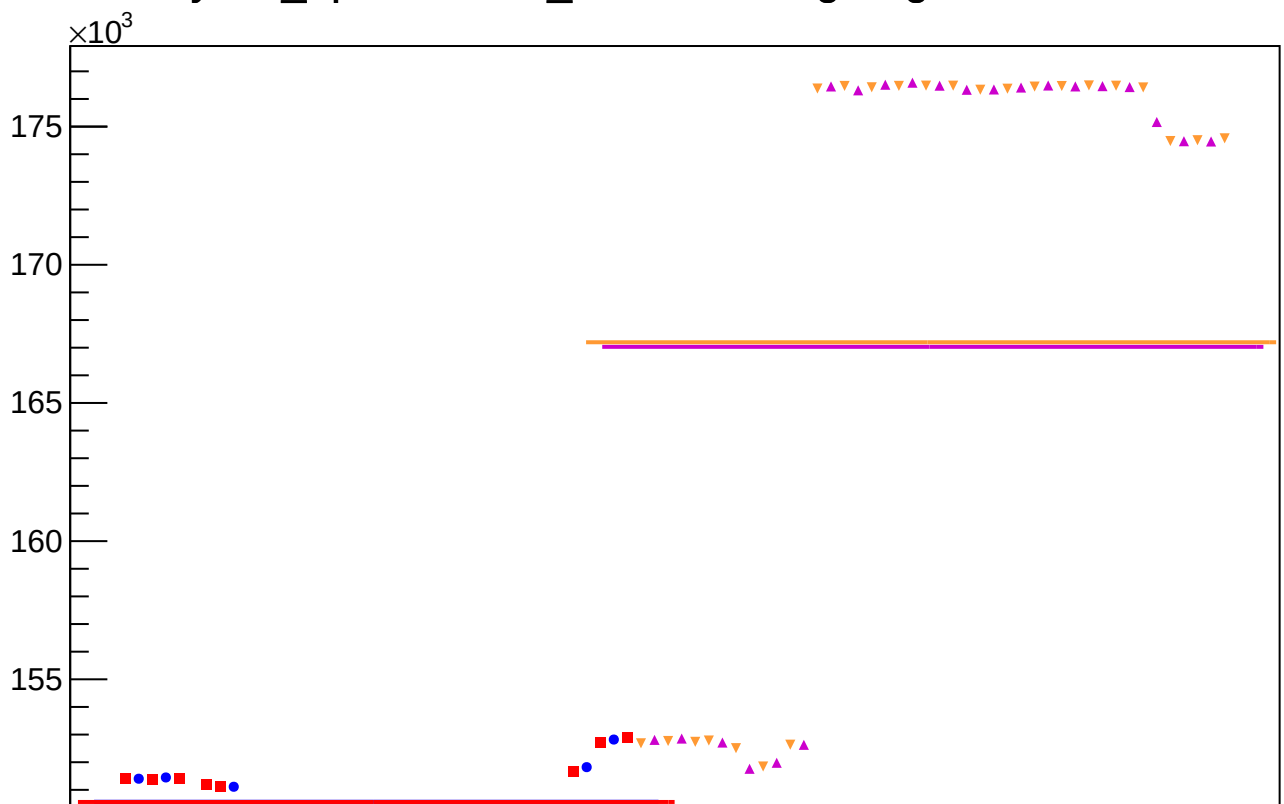
Left: 0.749+/-0.000 $\chi^2$/NDF: 978120.6/43

Right: 0.859+/-0.000 $\chi^2$/NDF: 4512219.1/34

In: 0.770+/-0.000 $\chi^2$/NDF:2828167.1/36

Out: 0.769+/-0.000 $\chi^2$/NDF:2871395.4/41

All: 0.770+/-0.000 $\chi^2$/NDF: 5699580.6/78




Right In: 150568.638+/-0.055 $\chi^2$/NDF: 237155171.8/15

Left Out: 167196.494+/-0.047 $\chi^2$/NDF:58983675928.2/22

Right Out: 150561.647+/-0.051 $\chi^2$/NDF: 197500782.5/18

Left In: 167031.182+/-0.050 $\chi^2$/NDF:54510583815.3/20

Left: 167117.649+/-0.034 $\chi^2$/NDF: 113500074296.

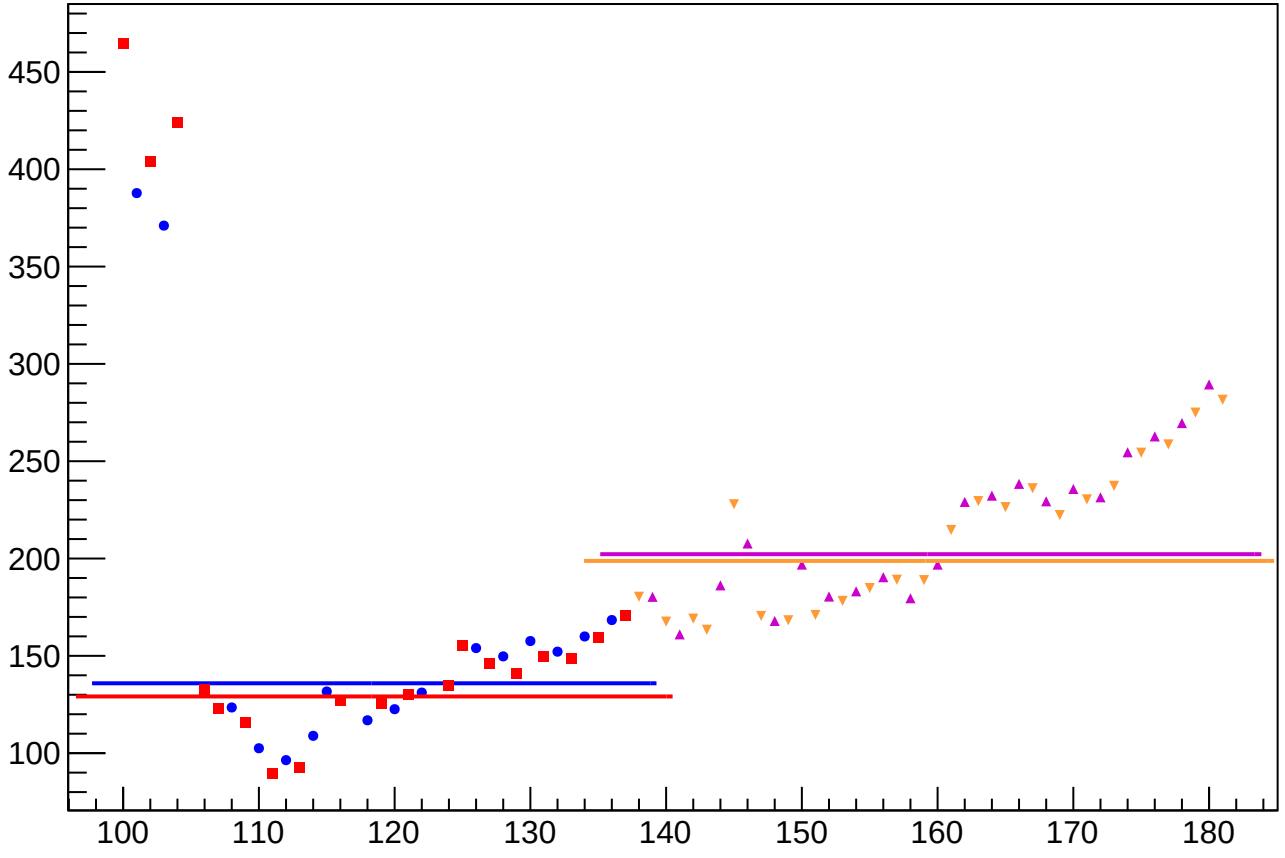
Right: 150564.903+/-0.037 $\chi^2$/NDF: 434664709.4/3

In: 159592.646+/-0.037 $\chi^2$/NDF:104560715415.9

Out: 159493.350+/-0.035 $\chi^2$/NDF:116345115769.

All: 159540.196+/-0.025 $\chi^2$/NDF: 22090969

# yield_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 135.896+/-0.039 $\chi^2$/NDF: 1416332.3/15

Left Out: 198.780+/-0.033 $\chi^2$/NDF:1005607.1/22

Right Out: 129.130+/-0.036 $\chi^2$/NDF: 1614311.0/18

Left In: 202.228+/-0.035 $\chi^2$/NDF:860171.7/20

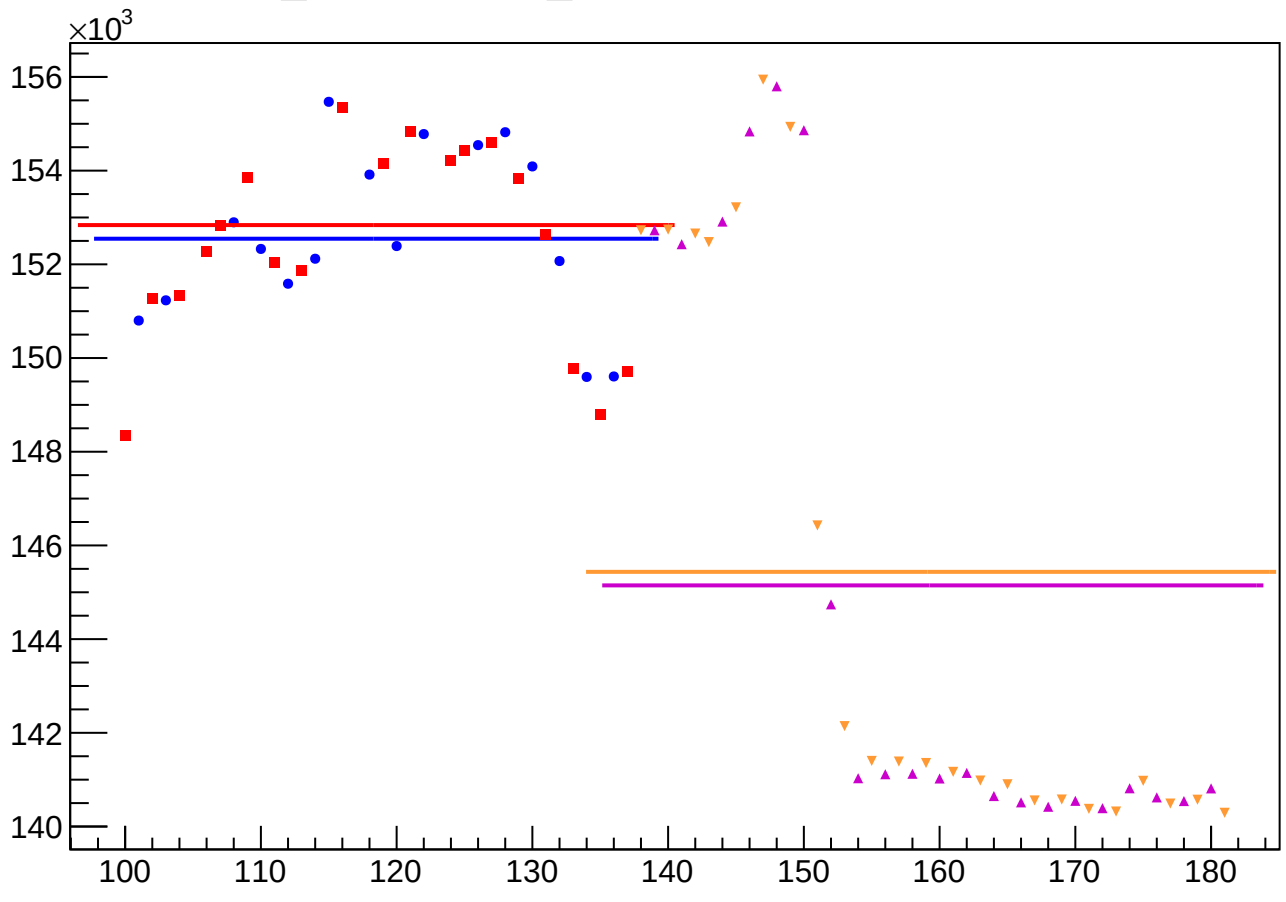
Left: 200.424+/-0.024 $\chi^2$/NDF: 1870835.8/43

Right: 132.281+/-0.026 $\chi^2$/NDF: 3047045.4/34

In: 172.256+/-0.026 $\chi^2$/NDF:3893904.3/36

Out: 166.527+/-0.025 $\chi^2$/NDF:4624178.5/41

All: 169.230+/-0.018 $\chi^2$/NDF: 8543810.0/78




Right In: 152546.899+/-0.073 $\chi^2$/NDF: 654540559.6/15

Left Out: 145436.167+/-0.050 $\chi^2$/NDF:13364156712.8/22

Right Out: 152837.888+/-0.067 $\chi^2$/NDF: 736907066.8/18

Left In: 145147.047+/-0.052 $\chi^2$/NDF:12818531448.7/20

Left: 145297.099+/-0.036 $\chi^2$/NDF: 26198643078.2

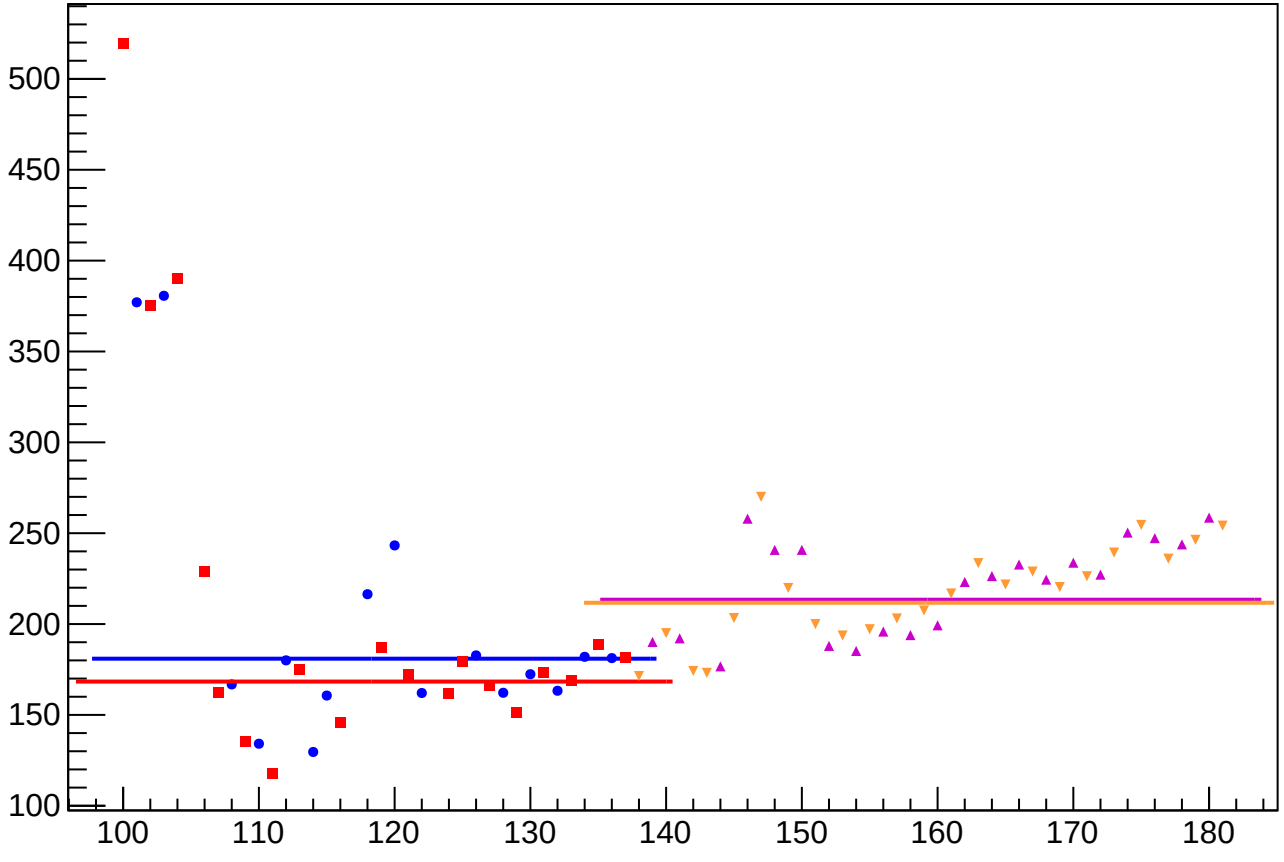
Right: 152704.814+/-0.049 $\chi^2$/NDF: 1400162101.0

In: 147664.645+/-0.042 $\chi^2$/NDF:20324598817.6/3

Out: 148114.771+/-0.040 $\chi^2$/NDF:21968457023.4

All: 147902.007+/-0.029 $\chi^2$/NDF: 42352611

# yield_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 180.938+/-0.051 $\chi^2$/NDF: 907758.2/15

Left Out: 211.714+/-0.035 $\chi^2$/NDF:526870.7/22

Right Out: 168.349+/-0.047 $\chi^2$/NDF: 1089090.2/18

Left In: 213.406+/-0.037 $\chi^2$/NDF:506868.1/20

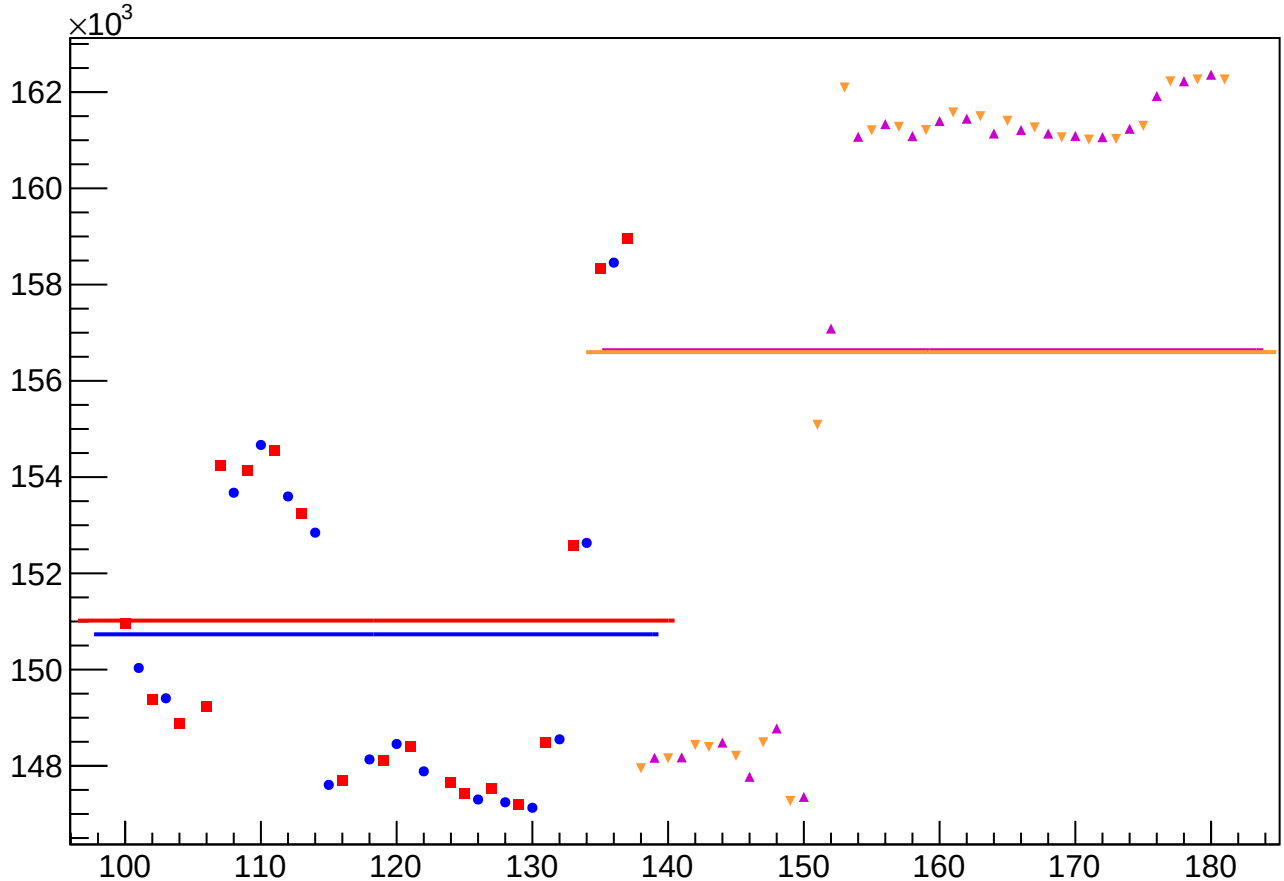
Left: 212.528+/-0.026 $\chi^2$/NDF: 1034832.7/43

Right: 174.106+/-0.035 $\chi^2$/NDF: 2029471.3/34

In: 202.360+/-0.030 $\chi^2$/NDF:1678430.6/36

Out: 196.021+/-0.028 $\chi^2$/NDF:2156049.5/41

All: 199.017+/-0.021 $\chi^2$/NDF: 3858107.0/78




Right In: 150733.301+/-0.063 $\chi^2$/NDF: 3283848751.0/15

Left Out: 156596.422+/-0.049 $\chi^2$/NDF:16001828400.9/22

Right Out: 151018.500+/-0.060 $\chi^2$/NDF: 3286131878.7/18

Left In: 156635.939+/-0.052 $\chi^2$/NDF:14018522644.9/20

Left: 156615.232+/-0.036 $\chi^2$/NDF: 30020656745.9

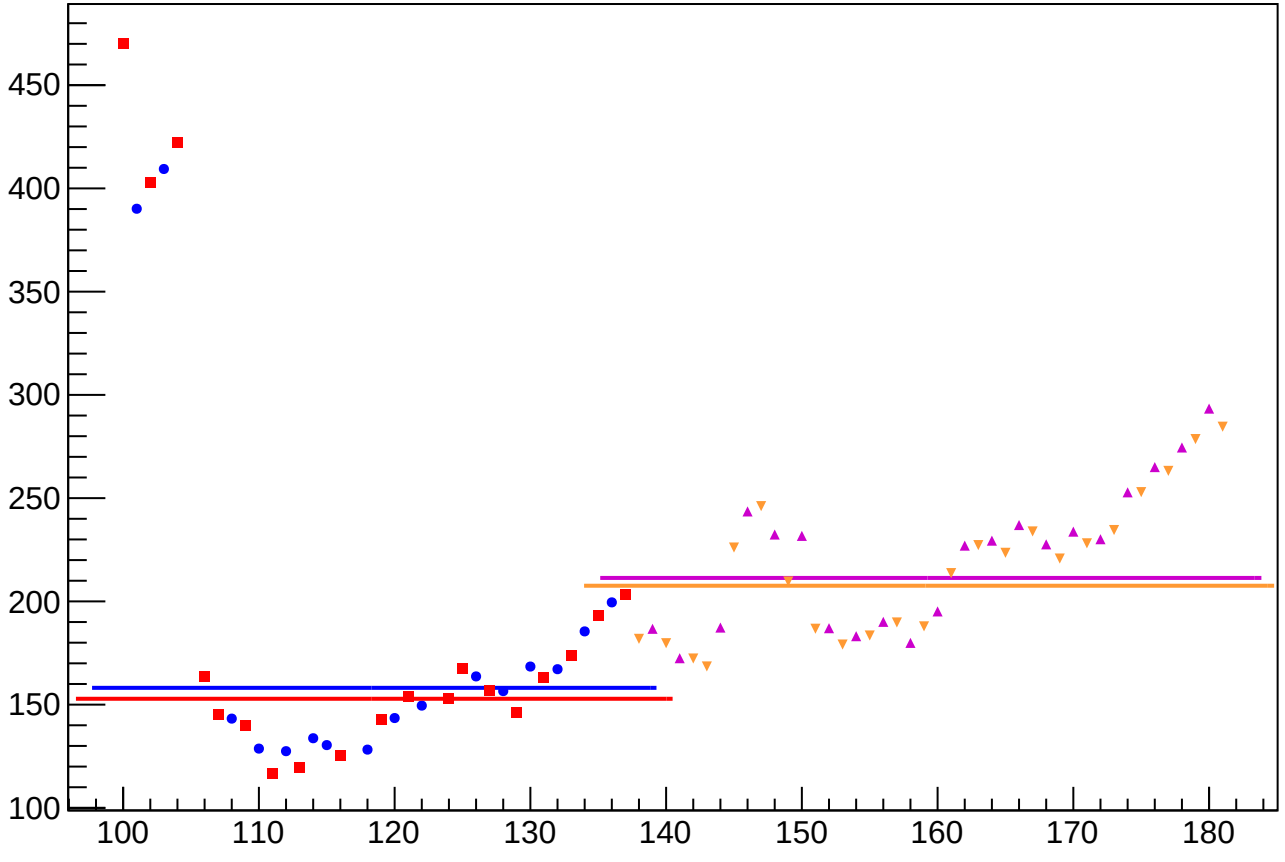
Right: 150882.491+/-0.043 $\chi^2$/NDF: 6580735457.3/

In: 154253.934+/-0.040 $\chi^2$/NDF:22555085342.2/3

Out: 154350.274+/-0.038 $\chi^2$/NDF:24440718065.1

All: 154304.382+/-0.028 $\chi^2$/NDF: 46998847

# yield_bpm0i01WS_rms vs Slug, Sign Corrected




Right In: 158.138+/-0.044 $\chi^2$/NDF: 1195699.5/15

Left Out: 207.581+/-0.035 $\chi^2$/NDF:798249.2/22

Right Out: 152.841+/-0.042 $\chi^2$/NDF: 1264236.1/18

Left In: 211.360+/-0.037 $\chi^2$/NDF:748771.3/20

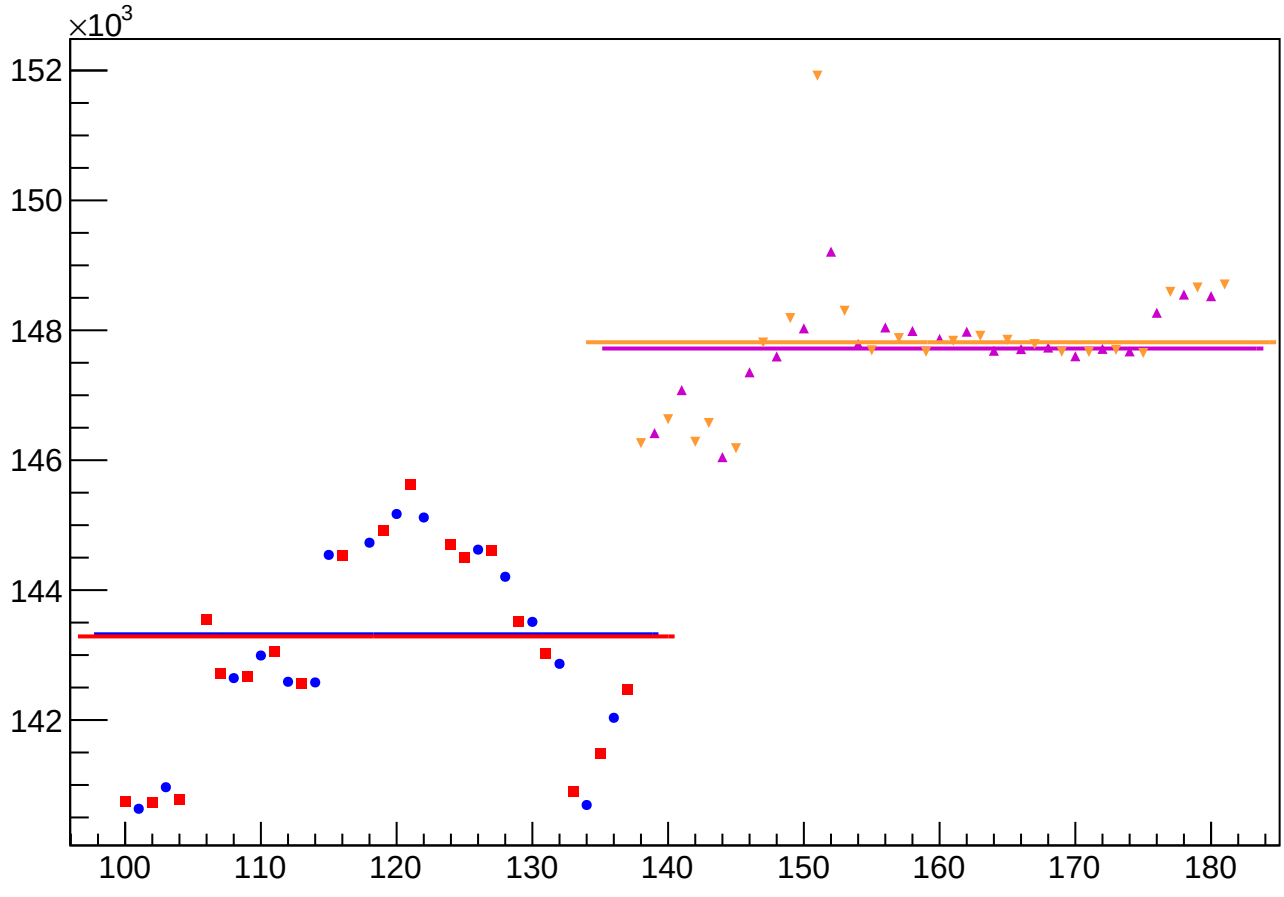
Left: 209.380+/-0.025 $\chi^2$/NDF: 1552612.0/43

Right: 155.367+/-0.031 $\chi^2$/NDF: 2467354.6/34

In: 189.883+/-0.028 $\chi^2$/NDF:2798584.8/36

Out: 185.538+/-0.027 $\chi^2$/NDF:3055008.4/41

All: 187.608+/-0.020 $\chi^2$/NDF: 5865972.8/78




Right In: 143319.651+/-0.053 $\chi^2$/NDF: 559301530.7/15

Left Out: 147815.950+/-0.046 $\chi^2$/NDF:701541273.8/22

Right Out: 143286.960+/-0.050 $\chi^2$/NDF: 620521577.8/18

Left In: 147719.465+/-0.048 $\chi^2$/NDF:222788386.3/20

Left: 147769.934+/-0.033 $\chi^2$/NDF: 926447396.3/43

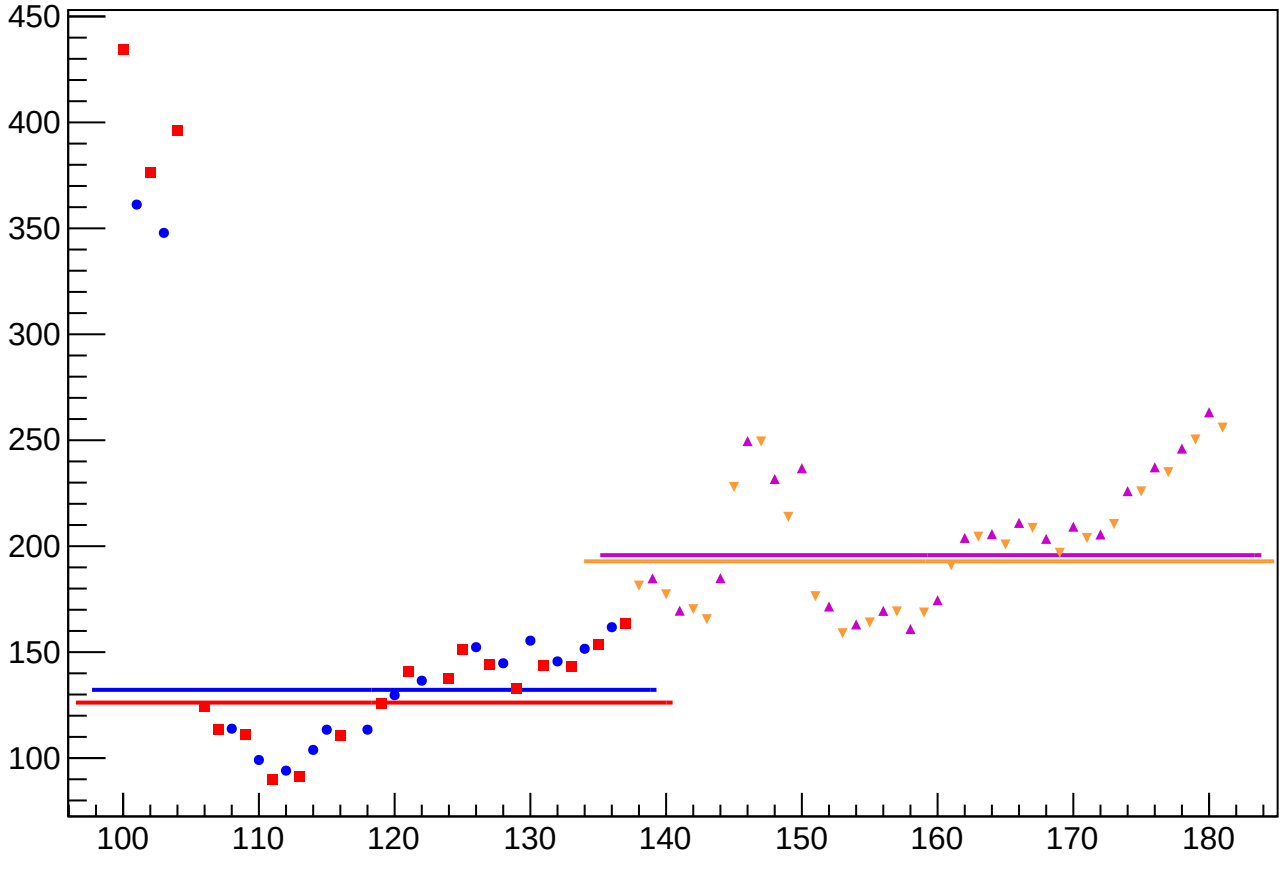
Right: 143302.220+/-0.036 $\chi^2$/NDF: 1180025024.1/

In: 145744.108+/-0.036 $\chi^2$/NDF:4561835167.0/36

Out: 145737.031+/-0.034 $\chi^2$/NDF:5813112545.8/4

All: 145740.374+/-0.024 $\chi^2$/NDF: 10374968

# yield_bpm0i01aWS_rms vs Slug, Sign Corrected




Right In: 132.204+/-0.038 $\chi^2$/NDF: 1379168.6/15

Left Out: 192.853+/-0.032 $\chi^2$/NDF:728006.9/22

Right Out: 126.191+/-0.035 $\chi^2$/NDF: 1545034.5/18

Left In: 195.763+/-0.034 $\chi^2$/NDF:756386.2/20

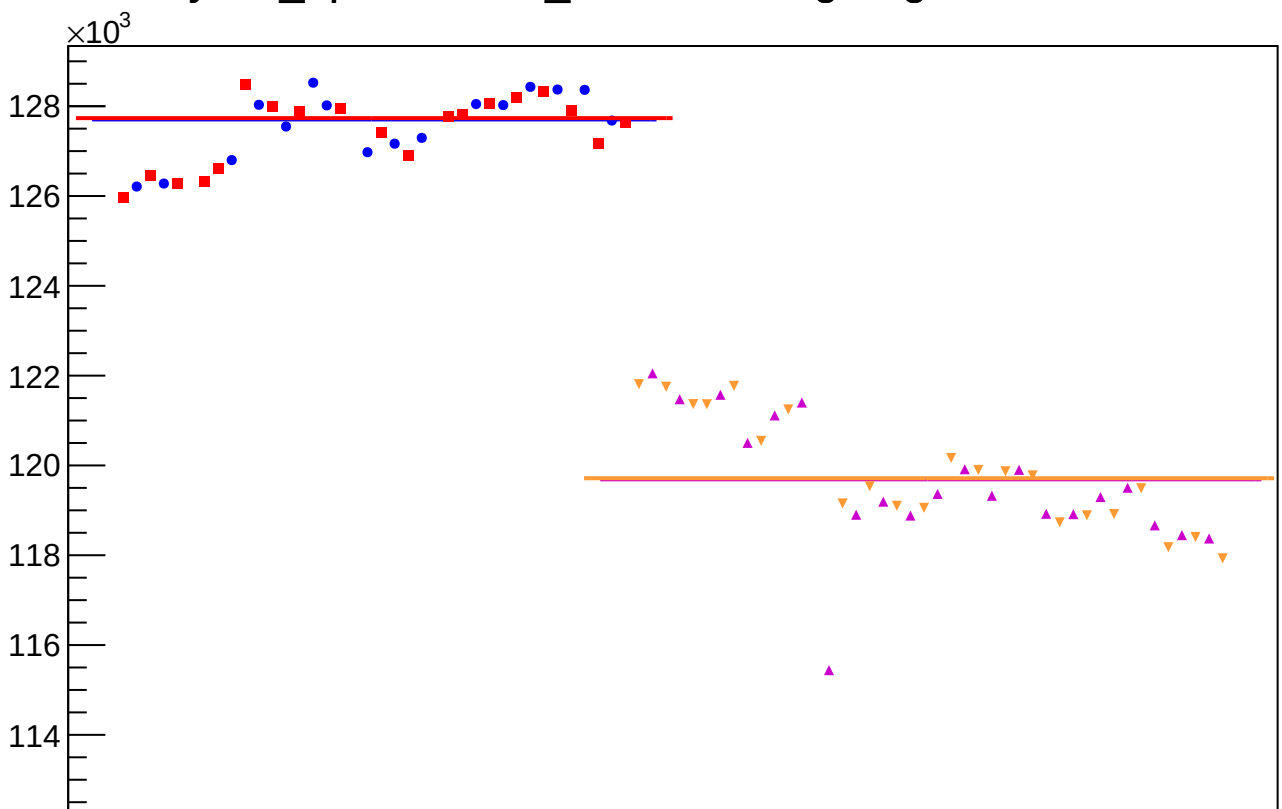
Left: 194.241+/-0.023 $\chi^2$/NDF: 1488245.9/43

Right: 128.998+/-0.026 $\chi^2$/NDF: 2937865.2/34

In: 167.228+/-0.025 $\chi^2$/NDF:3713098.6/36

Out: 162.254+/-0.024 $\chi^2$/NDF:4219007.5/41

All: 164.603+/-0.017 $\chi^2$/NDF: 7952711.8/78




Right In: 127705.222+/-0.058 $\chi^2$/NDF: 104467207.7/15

Left Out: 119714.404+/-0.045 $\chi^2$/NDF:1972616182.9/22

Right Out: 127734.542+/-0.055 $\chi^2$/NDF: 109469333.8/18

Left In: 119690.004+/-0.046 $\chi^2$/NDF:1268256221.9/20

Left: 119702.410+/-0.032 $\chi^2$/NDF: 3241016526.3/4

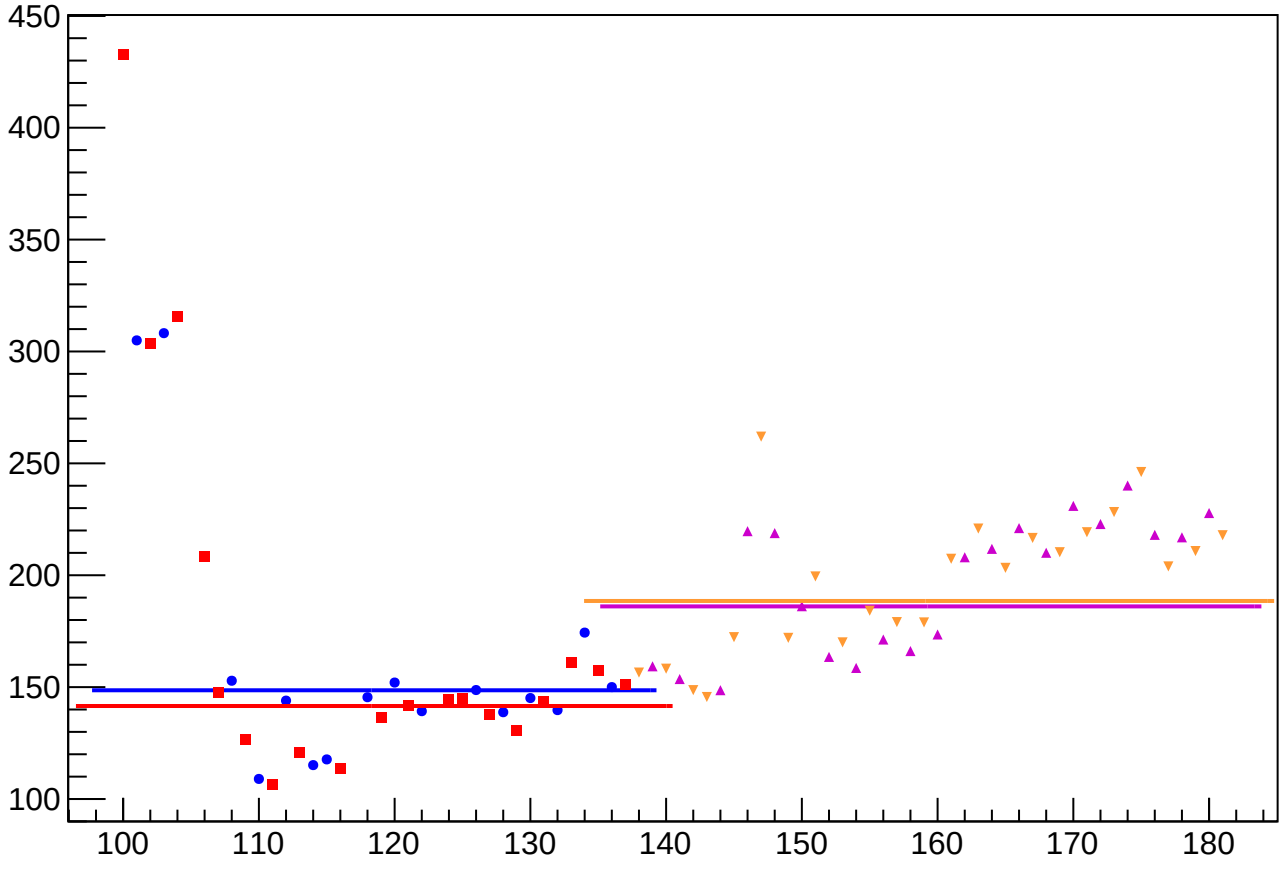
Right: 127720.787+/-0.040 $\chi^2$/NDF: 214070280.4/3

In: 122743.833+/-0.036 $\chi^2$/NDF:13026109553.2/3

Out: 122941.846+/-0.035 $\chi^2$/NDF:14829093135.5

All: 122846.254+/-0.025 $\chi^2$/NDF: 27870801

# yield_bpm0l01WS_rms vs Slug, Sign Corrected




Right In: 148.593+/-0.041 $\chi^2$/NDF: 827701.4/15

Left Out: 188.504+/-0.032 $\chi^2$/NDF:834224.8/22

Right Out: 141.563+/-0.039 $\chi^2$/NDF: 1001225.3/18

Left In: 186.075+/-0.032 $\chi^2$/NDF:837844.7/20

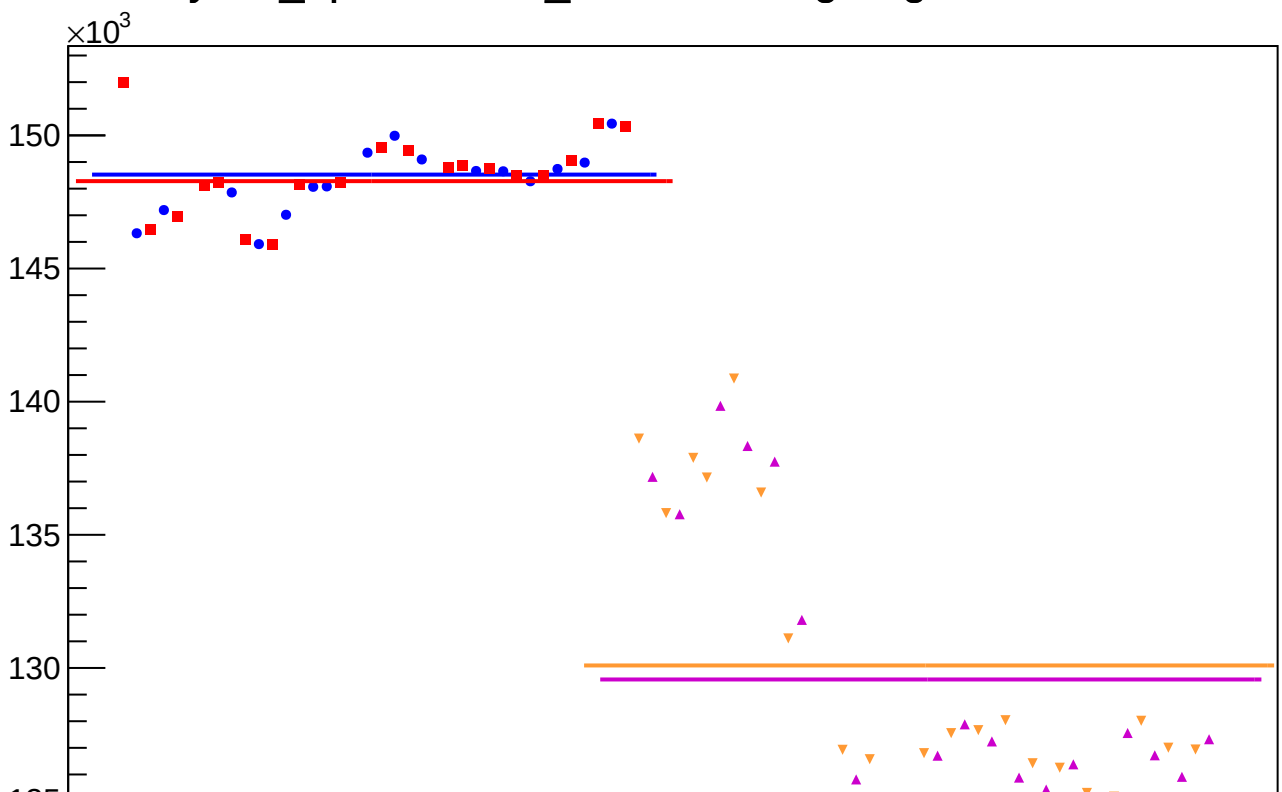
Left: 187.310+/-0.023 $\chi^2$/NDF: 1674926.8/43

Right: 144.861+/-0.028 $\chi^2$/NDF: 1844303.5/34

In: 171.794+/-0.025 $\chi^2$/NDF:2175224.1/36

Out: 169.614+/-0.025 $\chi^2$/NDF:2708793.2/41

All: 170.667+/-0.018 $\chi^2$/NDF: 4887798.0/78




Right In: 148527.678+/-0.082 $\chi^2$/NDF: 209208133.0/15

Left Out: 130093.963+/-0.066 $\chi^2$/NDF:6460016602.2/22

Right Out: 148282.003+/-0.077 $\chi^2$/NDF: 294673557.8/18

Left In: 129567.564+/-0.067 $\chi^2$/NDF:6402942880.8/20

Left: 129834.957+/-0.047 $\chi^2$/NDF: 12894483694.2

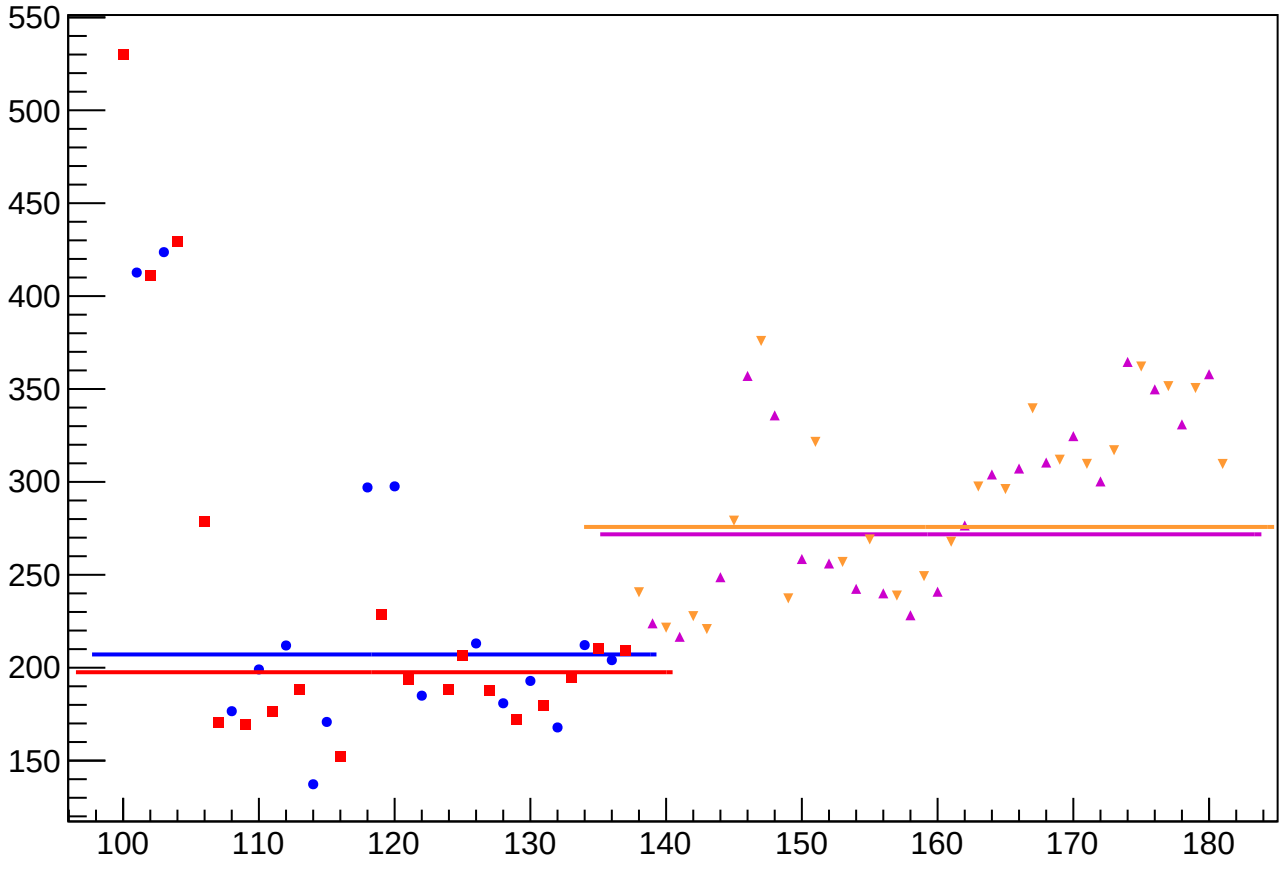
Right: 148396.583+/-0.056 $\chi^2$/NDF: 508678498.1/3

In: 137140.279+/-0.052 $\chi^2$/NDF:38768854231.4/3

Out: 137811.007+/-0.050 $\chi^2$/NDF:39207816940.3

All: 137488.078+/-0.036 $\chi^2$/NDF: 78063661

# yield_bpm0l02WS_rms vs Slug, Sign Corrected




Right In: 207.135+/-0.058 $\chi^2$/NDF: 972216.9/15

Left Out: 275.763+/-0.047 $\chi^2$/NDF:930708.0/22

Right Out: 197.571+/-0.054 $\chi^2$/NDF: 903999.3/18

Left In: 271.791+/-0.047 $\chi^2$/NDF:962408.5/20

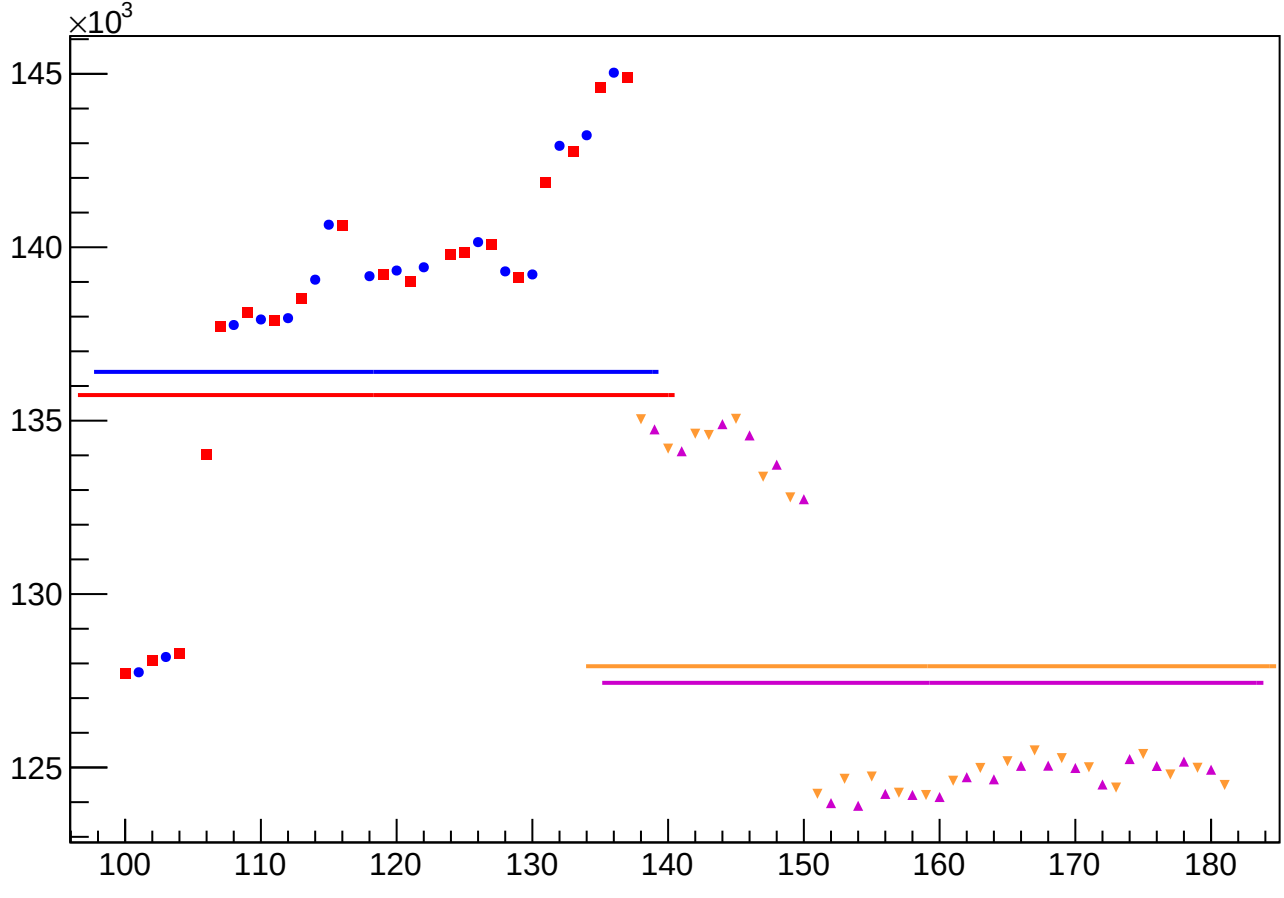
Left: 273.808+/-0.033 $\chi^2$/NDF: 1896705.8/43

Right: 202.032+/-0.040 $\chi^2$/NDF: 1890755.2/34

In: 245.967+/-0.037 $\chi^2$/NDF:2682512.7/36

Out: 242.587+/-0.035 $\chi^2$/NDF:3034303.2/41

All: 244.214+/-0.025 $\chi^2$/NDF: 5721235.7/78




Right In: 136406.923+/-0.169 $\chi^2$/NDF: 1577071044.7/15

Left Out: 127919.391+/-0.139 $\chi^2$/NDF:1058604346.5/22

Right Out: 135738.412+/-0.177 $\chi^2$/NDF: 1174123878.0/18

Left In: 127440.616+/-0.142 $\chi^2$/NDF:937716086.7/20

Left: 127684.790+/-0.099 $\chi^2$/NDF: 2002134645.2/4

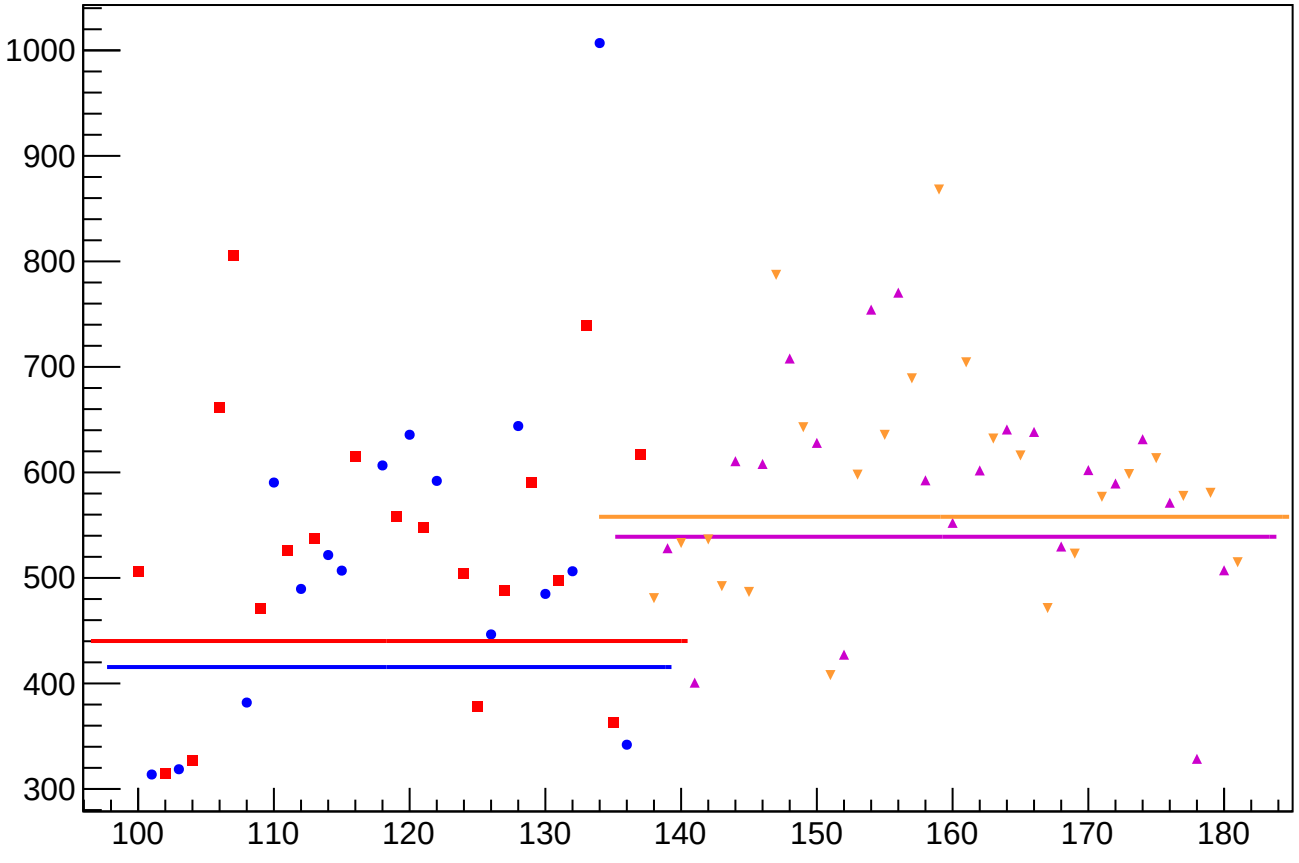
Right: 136088.335+/-0.122 $\chi^2$/NDF: 2758689484.9/

In: 131155.907+/-0.109 $\chi^2$/NDF:4171570771.7/36

Out: 130908.653+/-0.109 $\chi^2$/NDF:3442612525.6/4

All: 131033.102+/-0.077 $\chi^2$/NDF: 76167619

# yield_bpm0l03WS_rms vs Slug, Sign Corrected




Right In: 415.547+/-0.119 $\chi^2$/NDF: 1031600.7/15

Left Out: 557.952+/-0.098 $\chi^2$/NDF:892080.6/22

Right Out: 440.218+/-0.125 $\chi^2$/NDF: 910790.1/18

Left In: 539.029+/-0.100 $\chi^2$/NDF:1322043.6/20

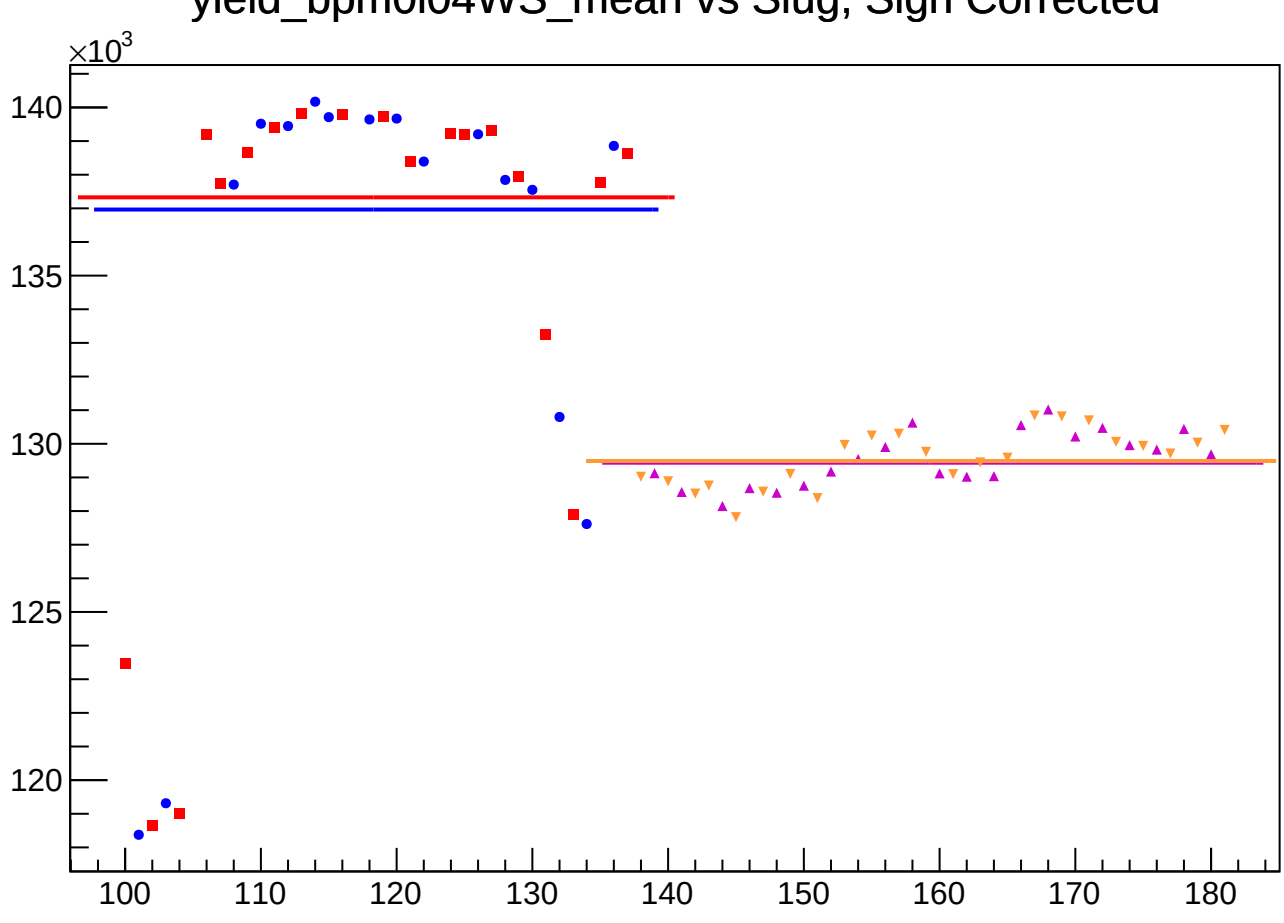
Left: 548.680+/-0.070 $\chi^2$/NDF: 2232289.6/43

Right: 427.304+/-0.086 $\chi^2$/NDF: 1962803.8/34

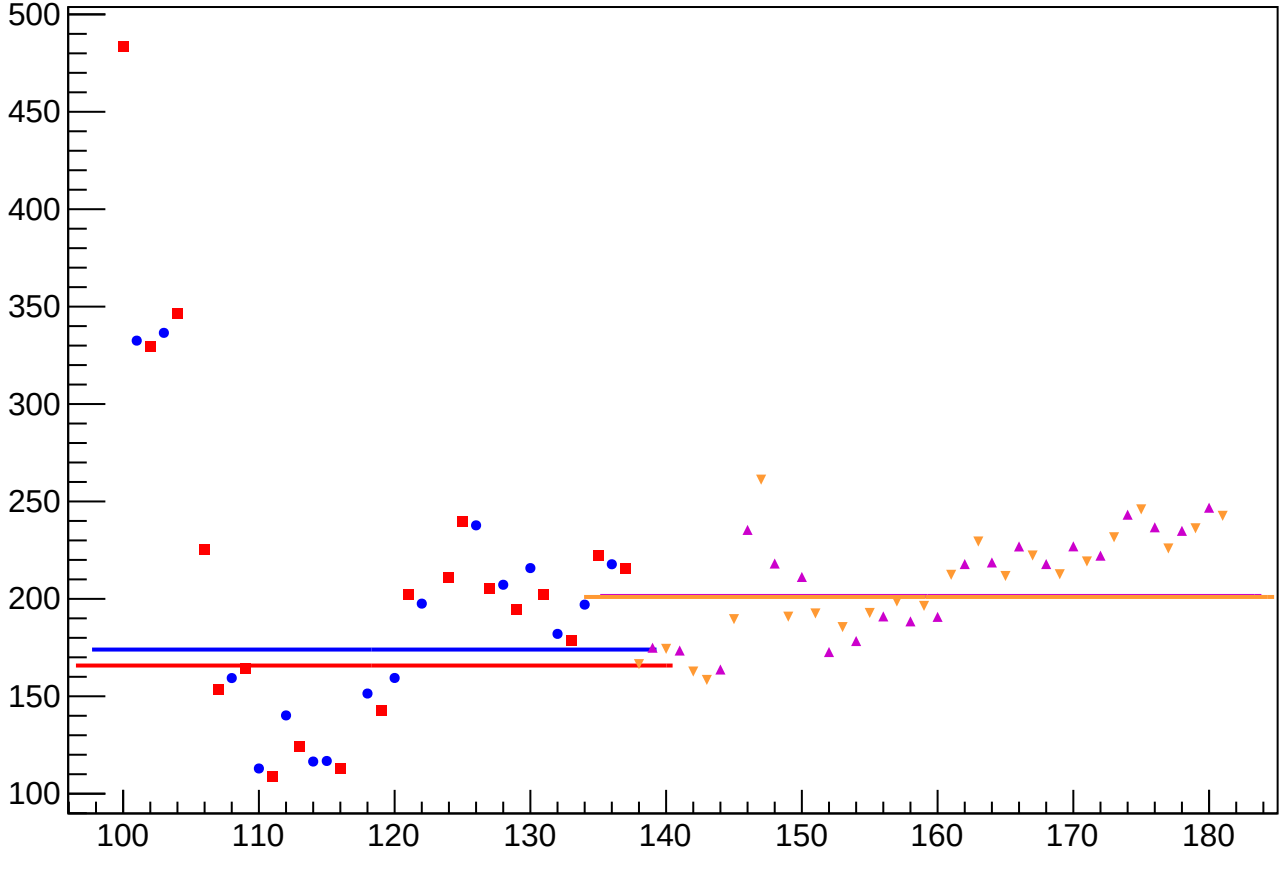
In: 487.863+/-0.077 $\chi^2$/NDF:2982098.9/36

Out: 512.942+/-0.077 $\chi^2$/NDF:2351498.9/41

All: 500.319+/-0.054 $\chi^2$/NDF: 5386654.2/78


yield_bpm0l04WS_mean vs Slug, Sign Corrected
×10^3
140
135
130
125
120
100
110
120
130
140
150
160
170
180
Right In: 136964.958+/-0.070 χ²/NDF: 5807770301.4/15
Left Out: 129489.328+/-0.048 χ²/NDF:295436398.5/22
Right Out: 137327.469+/-0.066 χ²/NDF: 5737745895.7/18
Left In: 129437.596+/-0.049 χ²/NDF:267722481.0/20
Left: 129464.285+/-0.034 χ²/NDF: 563726675.4/43
Right: 137157.181+/-0.048 χ²/NDF: 1559848727.
In: 131947.215+/-0.040 χ²/NDF:13844134995.7/3
Out: 132203.703+/-0.039 χ²/NDF:15357560534.4
All: 132080.791+/-0.028 χ²/NDF: 29222831

# yield_bpm0l04WS_rms vs Slug, Sign Corrected




Right In: 173.982+/-0.049 $\chi^2$/NDF: 1188493.1/15

Left Out: 200.979+/-0.034 $\chi^2$/NDF:631772.3/22

Right Out: 165.780+/-0.046 $\chi^2$/NDF: 1433162.4/18

Left In: 201.496+/-0.035 $\chi^2$/NDF:567983.9/20

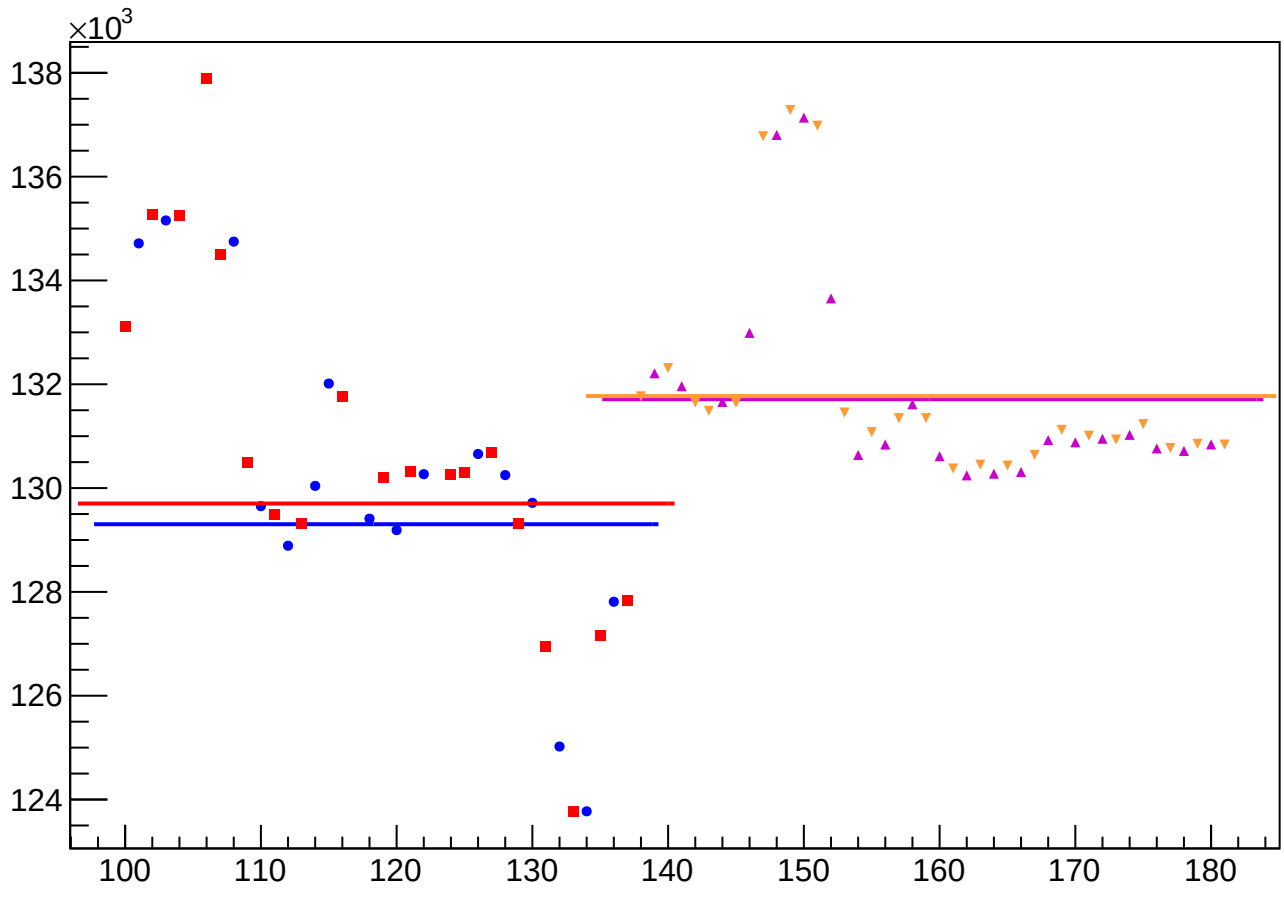
Left: 201.229+/-0.024 $\chi^2$/NDF: 1199869.3/43

Right: 169.633+/-0.034 $\chi^2$/NDF: 2636327.1/34

In: 192.323+/-0.028 $\chi^2$/NDF:1964061.1/36

Out: 188.790+/-0.027 $\chi^2$/NDF:2441017.5/41

All: 190.483+/-0.020 $\chi^2$/NDF: 4413097.6/78




Right In: 129303.894+/-0.066 $\chi^2$/NDF: 1650235360.7/15

Left Out: 131772.288+/-0.048 $\chi^2$/NDF:1397174867.8/22

Right Out: 129702.568+/-0.062 $\chi^2$/NDF: 1777723481.2/18

Left In: 131711.961+/-0.049 $\chi^2$/NDF:1133412144.6/20

Left: 131743.022+/-0.034 $\chi^2$/NDF: 2531365437.3/4

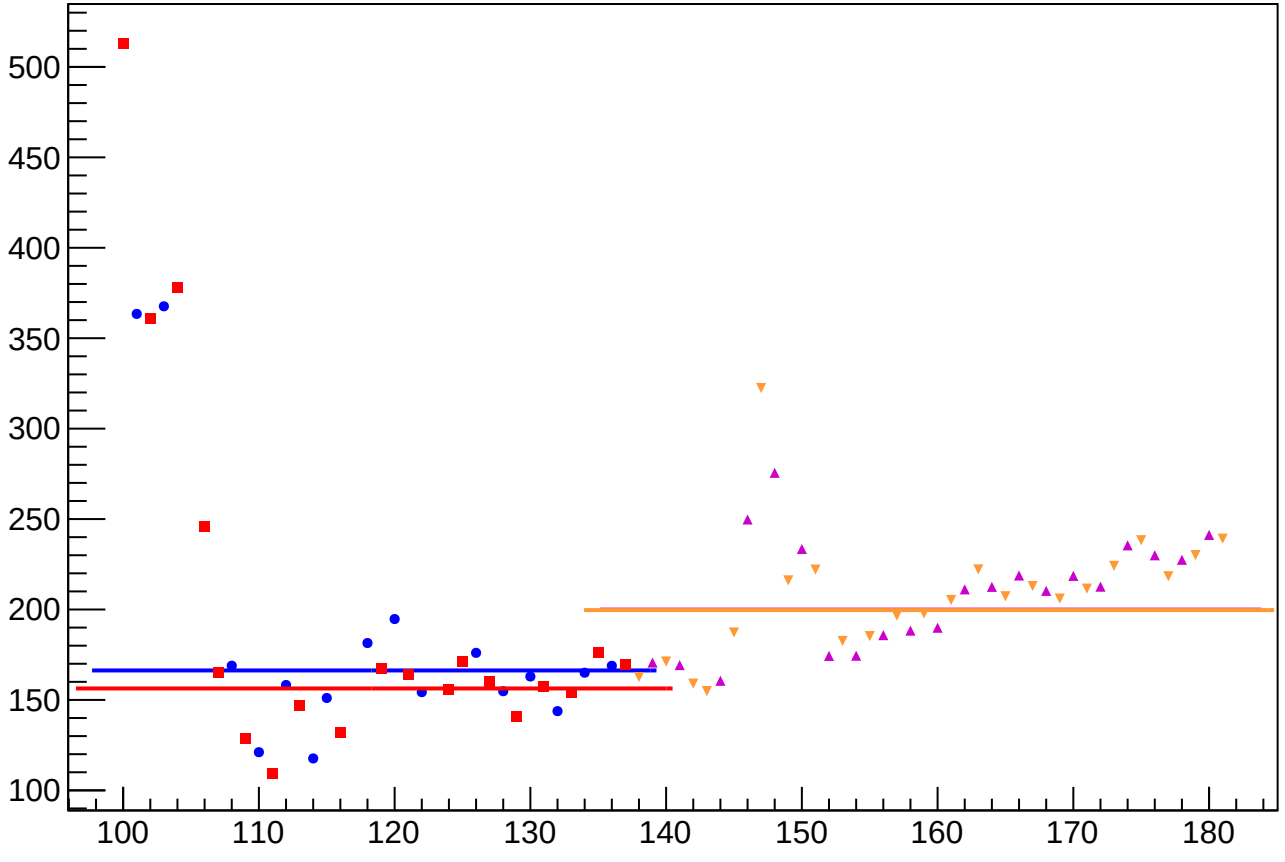
Right: 129517.750+/-0.045 $\chi^2$/NDF: 3447412906.7/

In: 130858.219+/-0.039 $\chi^2$/NDF:3637693509.8/36

Out: 130997.091+/-0.038 $\chi^2$/NDF:3882305902.3/4

All: 130930.813+/-0.027 $\chi^2$/NDF: 75264876

# yield_bpm0l05WS_rms vs Slug, Sign Corrected




Right In: 166.302+/-0.047 $\chi^2$/NDF: 937947.6/15

Left Out: 199.680+/-0.034 $\chi^2$/NDF:783338.9/22

Right Out: 156.334+/-0.044 $\chi^2$/NDF: 1172834.9/18

Left In: 199.936+/-0.035 $\chi^2$/NDF:708790.0/20

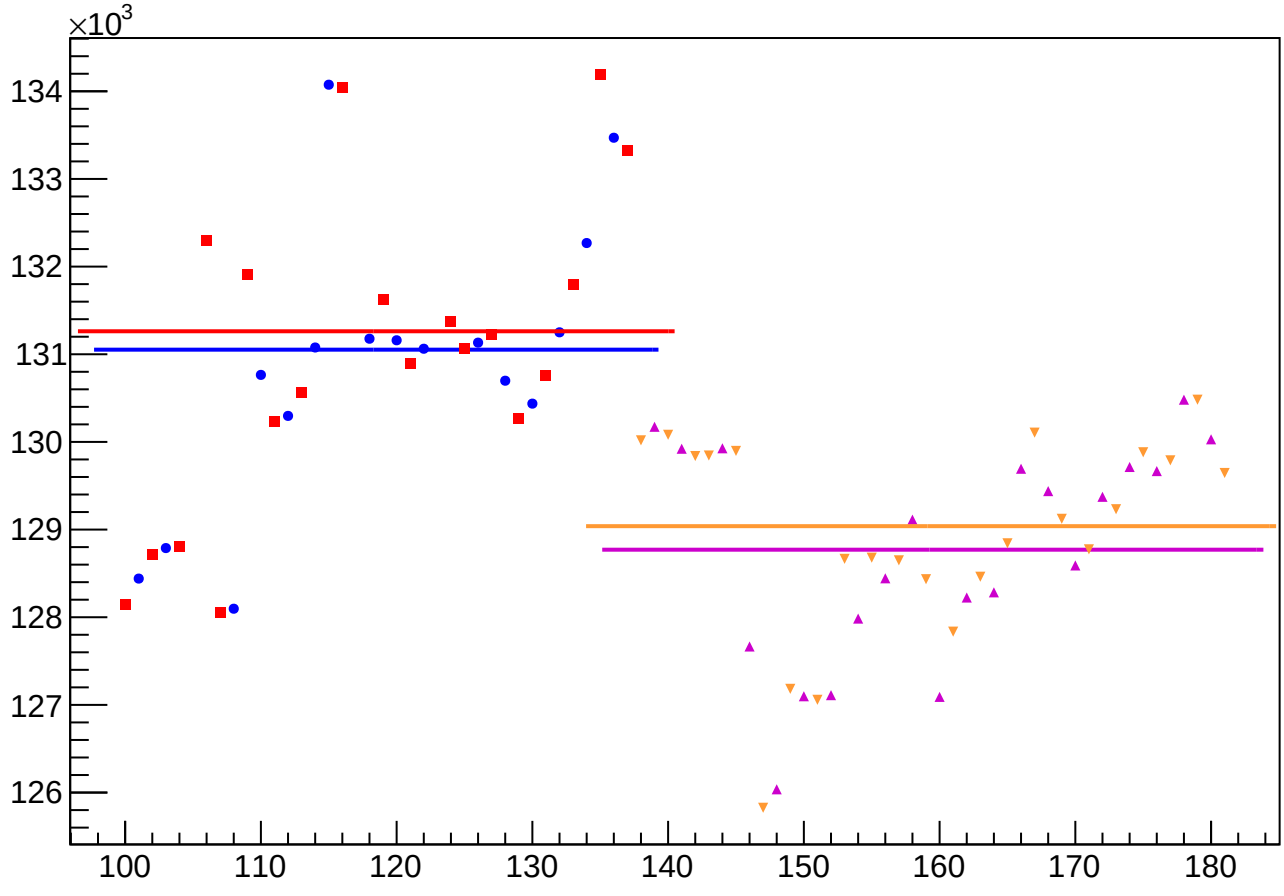
Left: 199.804+/-0.024 $\chi^2$/NDF: 1492157.0/43

Right: 160.955+/-0.032 $\chi^2$/NDF: 2135107.2/34

In: 188.012+/-0.028 $\chi^2$/NDF:1979944.3/36

Out: 183.445+/-0.027 $\chi^2$/NDF:2576708.5/41

All: 185.624+/-0.019 $\chi^2$/NDF: 4570684.8/78




Right In: 131052.422+/-0.061 $\chi^2$/NDF: 523713045.8/15

Left Out: 129038.891+/-0.046 $\chi^2$/NDF:528615519.9/22

Right Out: 131262.232+/-0.057 $\chi^2$/NDF: 604278186.1/18

Left In: 128770.498+/-0.048 $\chi^2$/NDF:653182154.7/20

Left: 128909.003+/-0.033 $\chi^2$/NDF: 1198119508.3/4

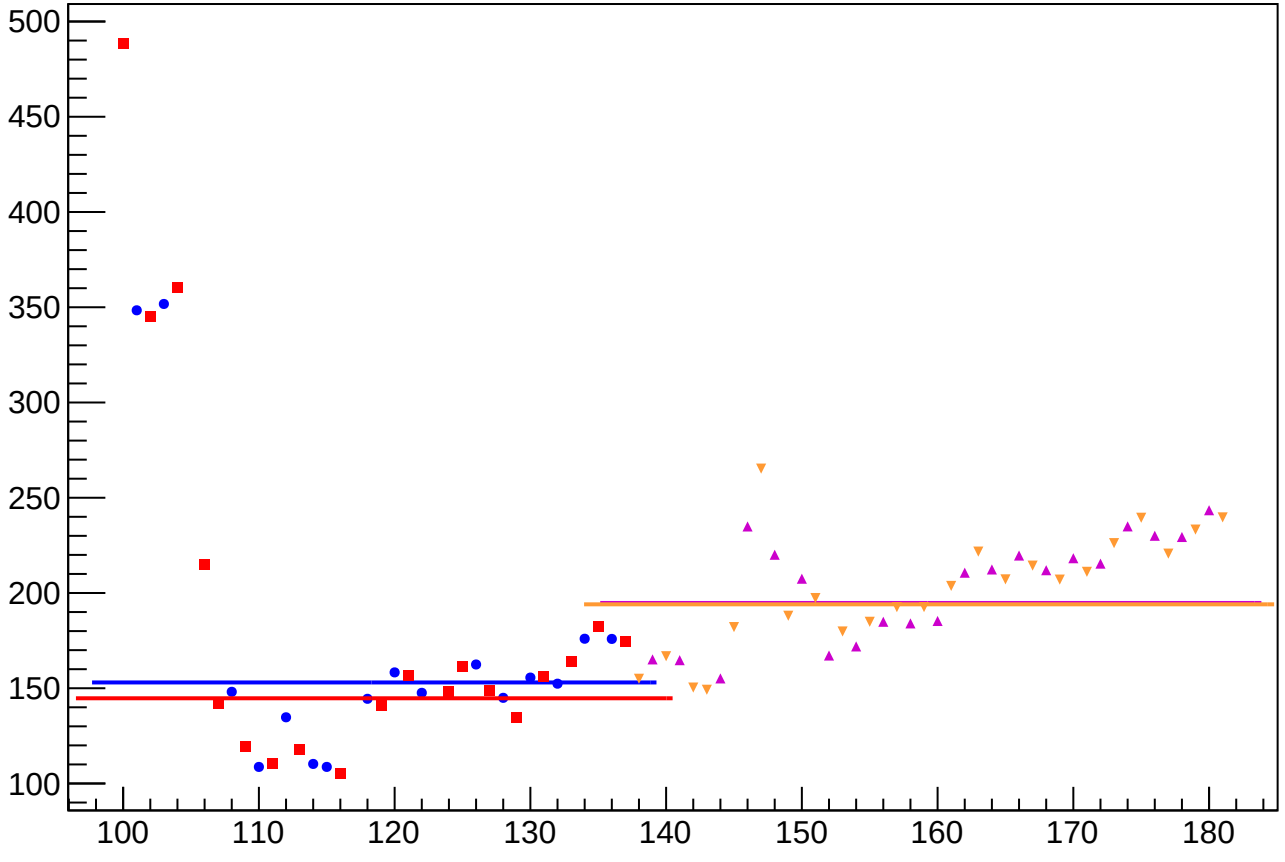
Right: 131164.431+/-0.041 $\chi^2$/NDF: 1134382049.3/

In: 129643.270+/-0.038 $\chi^2$/NDF:2051345613.3/36

Out: 129927.054+/-0.036 $\chi^2$/NDF:2057439886.8/4

All: 129791.695+/-0.026 $\chi^2$/NDF: 41387336

# yield_bpm0l06WS_rms vs Slug, Sign Corrected




Right In: 153.043+/-0.043 $\chi^2$/NDF: 1059470.3/15

Left Out: 194.050+/-0.033 $\chi^2$/NDF:783153.1/22

Right Out: 144.731+/-0.040 $\chi^2$/NDF: 1263423.6/18

Left In: 194.768+/-0.034 $\chi^2$/NDF:663080.7/20

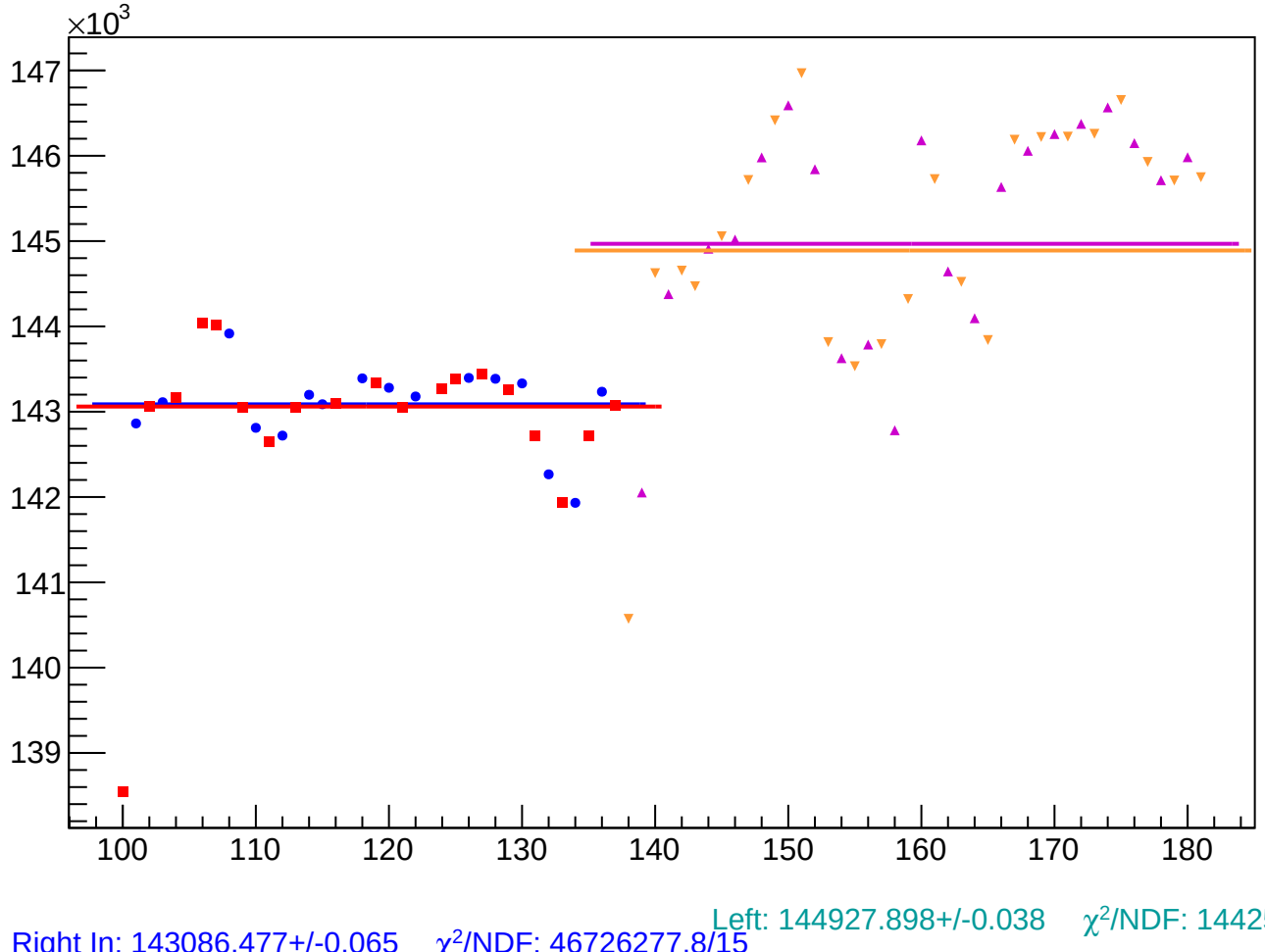
Left: 194.397+/-0.023 $\chi^2$/NDF: 1446467.4/43

Right: 148.605+/-0.029 $\chi^2$/NDF: 2342954.4/34

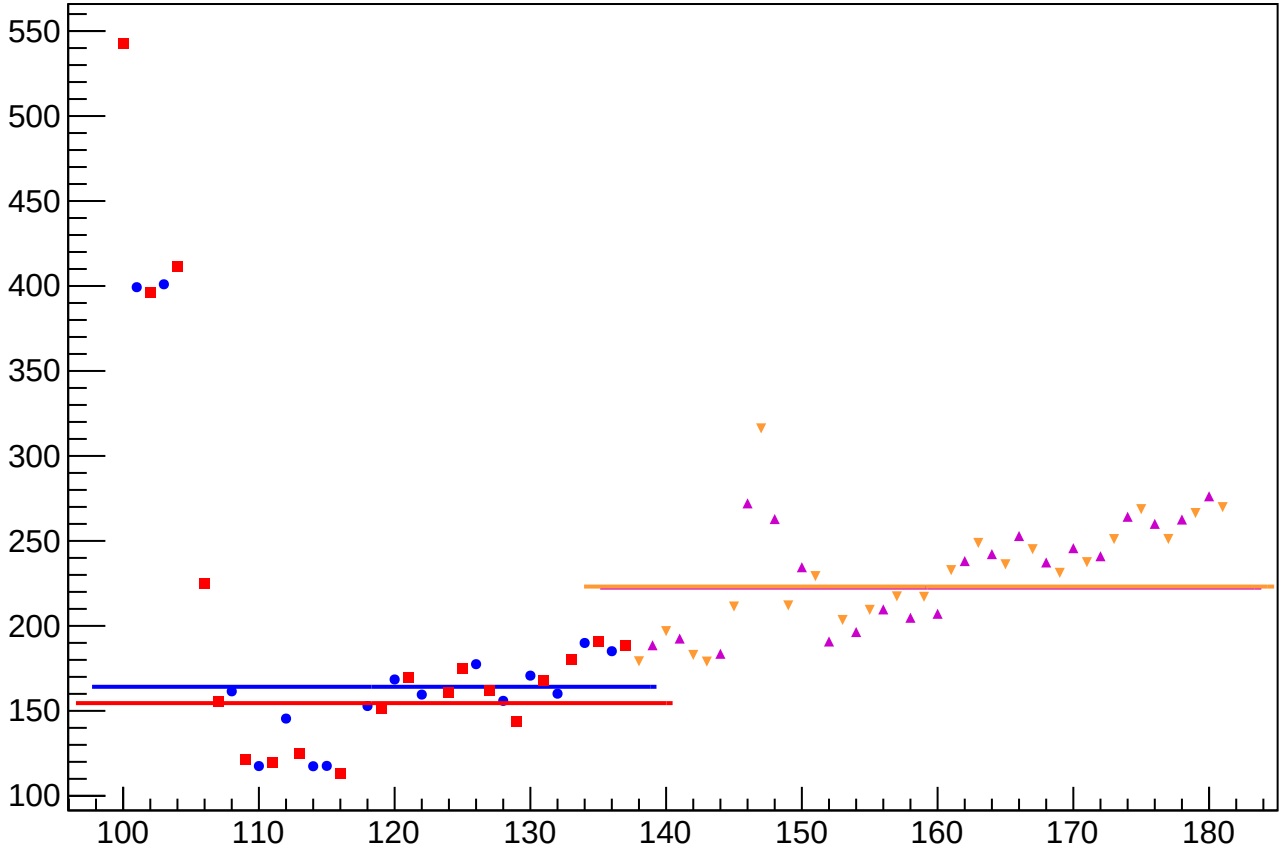
In: 178.809+/-0.027 $\chi^2$/NDF:2307287.1/36

Out: 174.348+/-0.025 $\chi^2$/NDF:2956444.9/41

All: 176.476+/-0.018 $\chi^2$/NDF: 5278532.2/78


yield_bpm0l07WS_mean vs Slug, Sign Corrected
×10^3
147
146
145
144
143
142
141
140
139
100
110
120
130
140
150
160
170
180
Right In: 143086.477+/-0.065 χ²/NDF: 46726277.8/15
Left Out: 144889.694+/-0.053 χ²/NDF:825732348.0/22
Right Out: 143060.268+/-0.061 χ²/NDF: 51715744.7/18
Left In: 144968.168+/-0.055 χ²/NDF:615789019.3/20
Left: 144927.898+/-0.038 χ²/NDF: 1442584408.8/4
Right: 143072.451+/-0.044 χ²/NDF: 98528807.3/34
In: 144192.186+/-0.042 χ²/NDF:1153705433.4/36
Out: 144095.858+/-0.040 χ²/NDF:1392396845.7/4
All: 144141.856+/-0.029 χ²/NDF: 25488777

# yield_bpm0l07WS_rms vs Slug, Sign Corrected




Right In: 164.167+/-0.046 $\chi^2$/NDF: 1129764.4/15

Left Out: 223.133+/-0.038 $\chi^2$/NDF:656009.0/22

Right Out: 154.558+/-0.043 $\chi^2$/NDF: 1366830.5/18

Left In: 222.535+/-0.039 $\chi^2$/NDF:616767.2/20

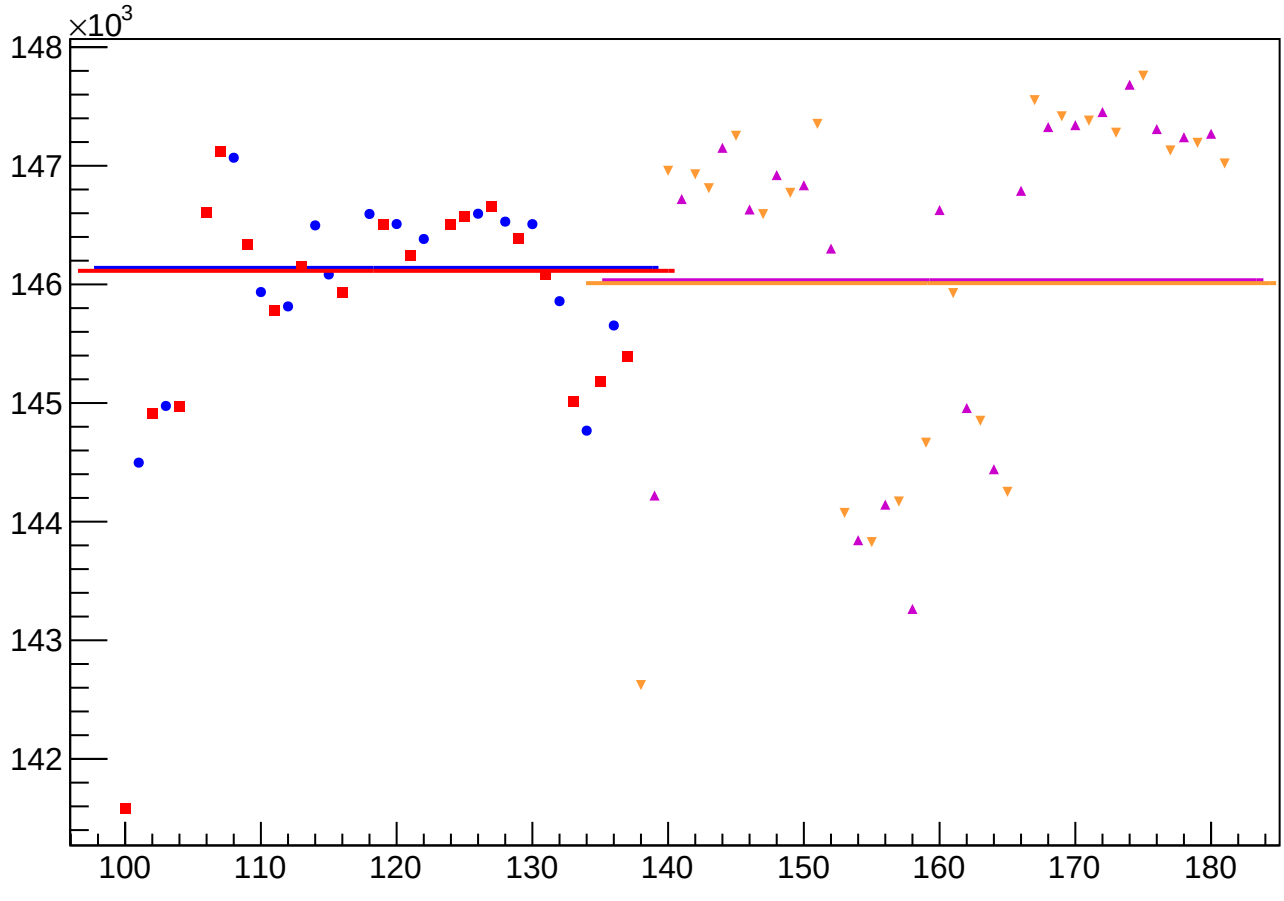
Left: 222.842+/-0.027 $\chi^2$/NDF: 1272899.7/43

Right: 159.024+/-0.031 $\chi^2$/NDF: 2519924.8/34

In: 198.465+/-0.030 $\chi^2$/NDF:2691764.7/36

Out: 193.376+/-0.028 $\chi^2$/NDF:3469938.0/41

All: 195.806+/-0.020 $\chi^2$/NDF: 6177190.7/78




Right In: 146139.237+/-0.067 $\chi^2$/NDF: 71721843.8/15

Left Out: 146010.626+/-0.053 $\chi^2$/NDF:871365198.6/22

Right Out: 146114.458+/-0.062 $\chi^2$/NDF: 73102068.4/18

Left In: 146034.894+/-0.055 $\chi^2$/NDF:694066720.6/20

Left: 146022.392+/-0.038 $\chi^2$/NDF: 1565534061.5/4

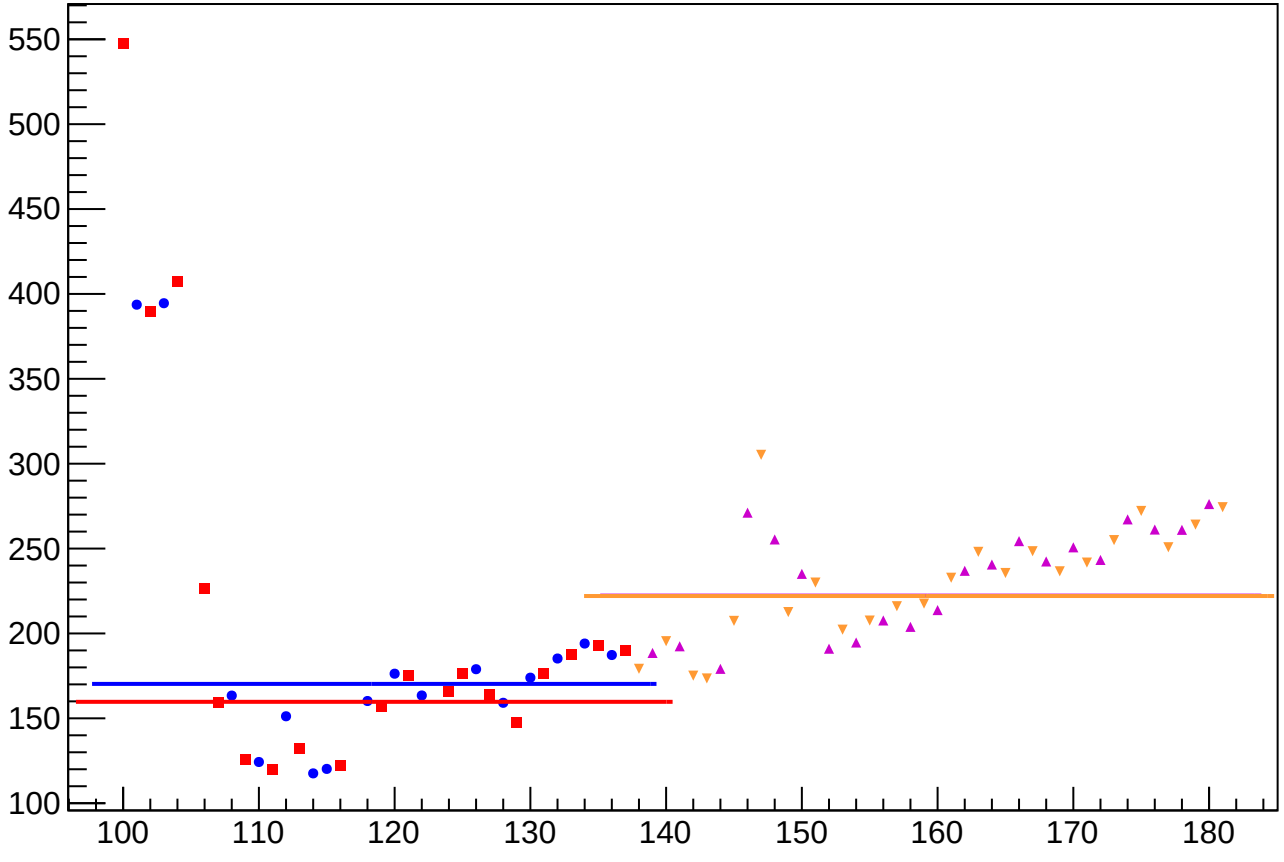
Right: 146125.912+/-0.046 $\chi^2$/NDF: 144896615.7/3

In: 146076.153+/-0.042 $\chi^2$/NDF:767237907.1/36

Out: 146053.954+/-0.040 $\chi^2$/NDF:946076571.4/41

All: 146064.513+/-0.029 $\chi^2$/NDF: 17134583

# yield_bpm0l08WS_rms vs Slug, Sign Corrected




Right In: 170.279+/-0.048 $\chi^2$/NDF: 1057631.0/15

Left Out: 222.047+/-0.037 $\chi^2$/NDF:725787.6/22

Right Out: 159.724+/-0.044 $\chi^2$/NDF: 1291290.8/18

Left In: 222.296+/-0.039 $\chi^2$/NDF:646970.8/20

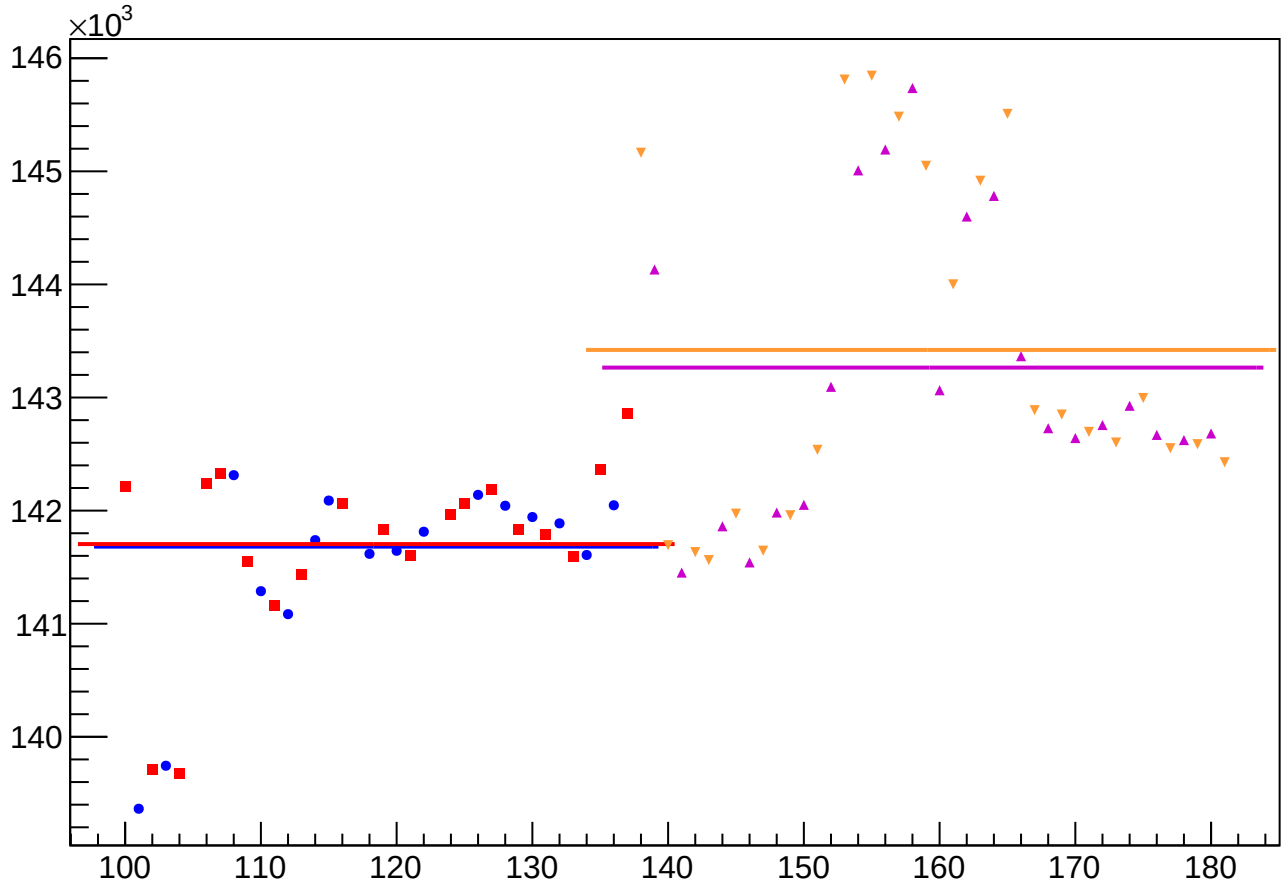
Left: 222.168+/-0.027 $\chi^2$/NDF: 1372780.0/43

Right: 164.603+/-0.032 $\chi^2$/NDF: 2375303.6/34

In: 201.727+/-0.030 $\chi^2$/NDF:2424991.8/36

Out: 196.040+/-0.029 $\chi^2$/NDF:3176640.7/41

All: 198.745+/-0.021 $\chi^2$/NDF: 5620522.9/78




Right In: 141681.846+/-0.068 $\chi^2$/NDF: 64292997.9/15

Left Out: 143420.937+/-0.055 $\chi^2$/NDF:772735441.1/22

Right Out: 141704.185+/-0.064 $\chi^2$/NDF: 65526811.0/18

Left In: 143264.613+/-0.056 $\chi^2$/NDF:524337192.1/20

Left: 143344.523+/-0.039 $\chi^2$/NDF: 1301074332.7/4

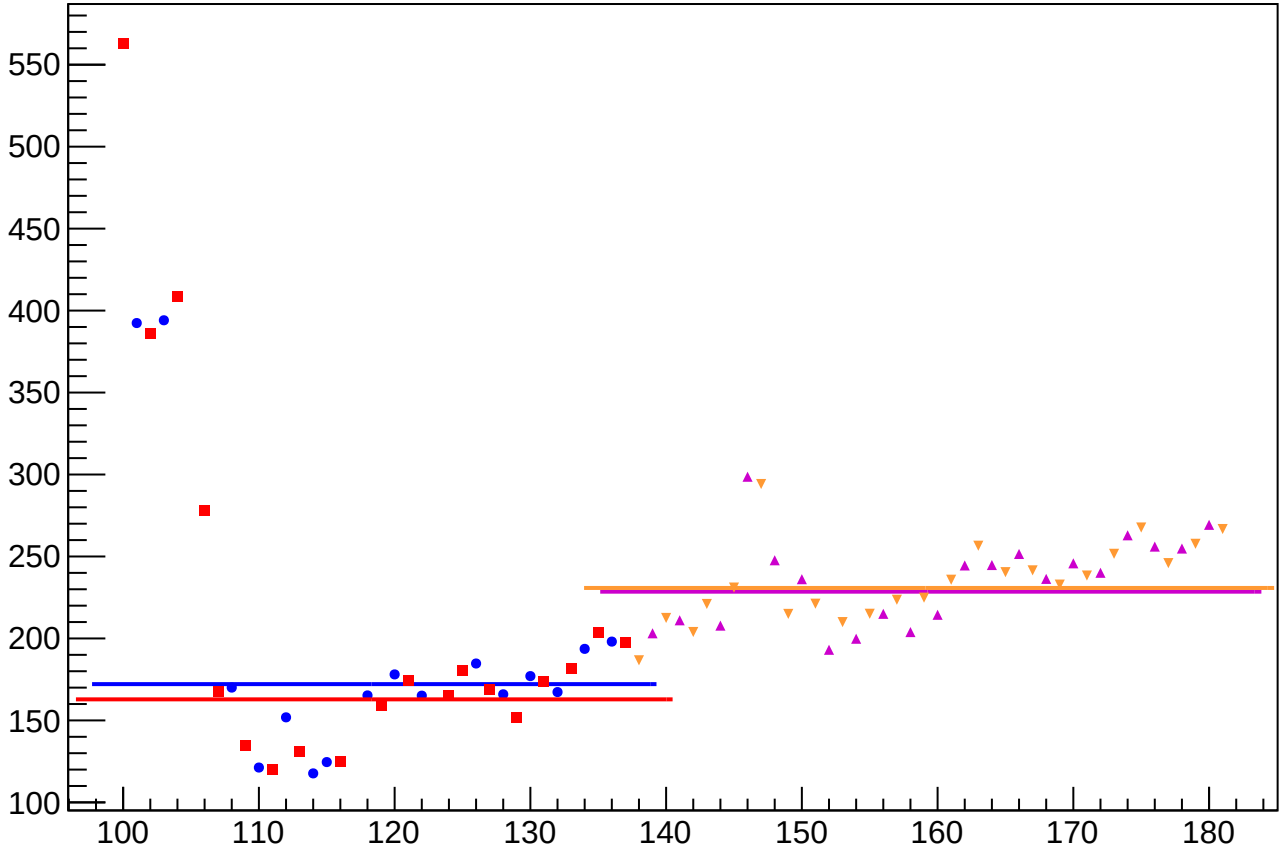
Right: 141693.772+/-0.047 $\chi^2$/NDF: 129876966.3/3

In: 142629.747+/-0.043 $\chi^2$/NDF:910531297.9/36

Out: 142694.524+/-0.041 $\chi^2$/NDF:1256032085.6/4

All: 142663.466+/-0.030 $\chi^2$/NDF: 216773169

# yield_bpm0l09WS_rms vs Slug, Sign Corrected




Right In: 172.139+/-0.048 $\chi^2$/NDF: 1068587.8/15

Left Out: 230.800+/-0.039 $\chi^2$/NDF:351641.3/22

Right Out: 162.845+/-0.045 $\chi^2$/NDF: 1305855.8/18

Left In: 228.537+/-0.040 $\chi^2$/NDF:430797.3/20

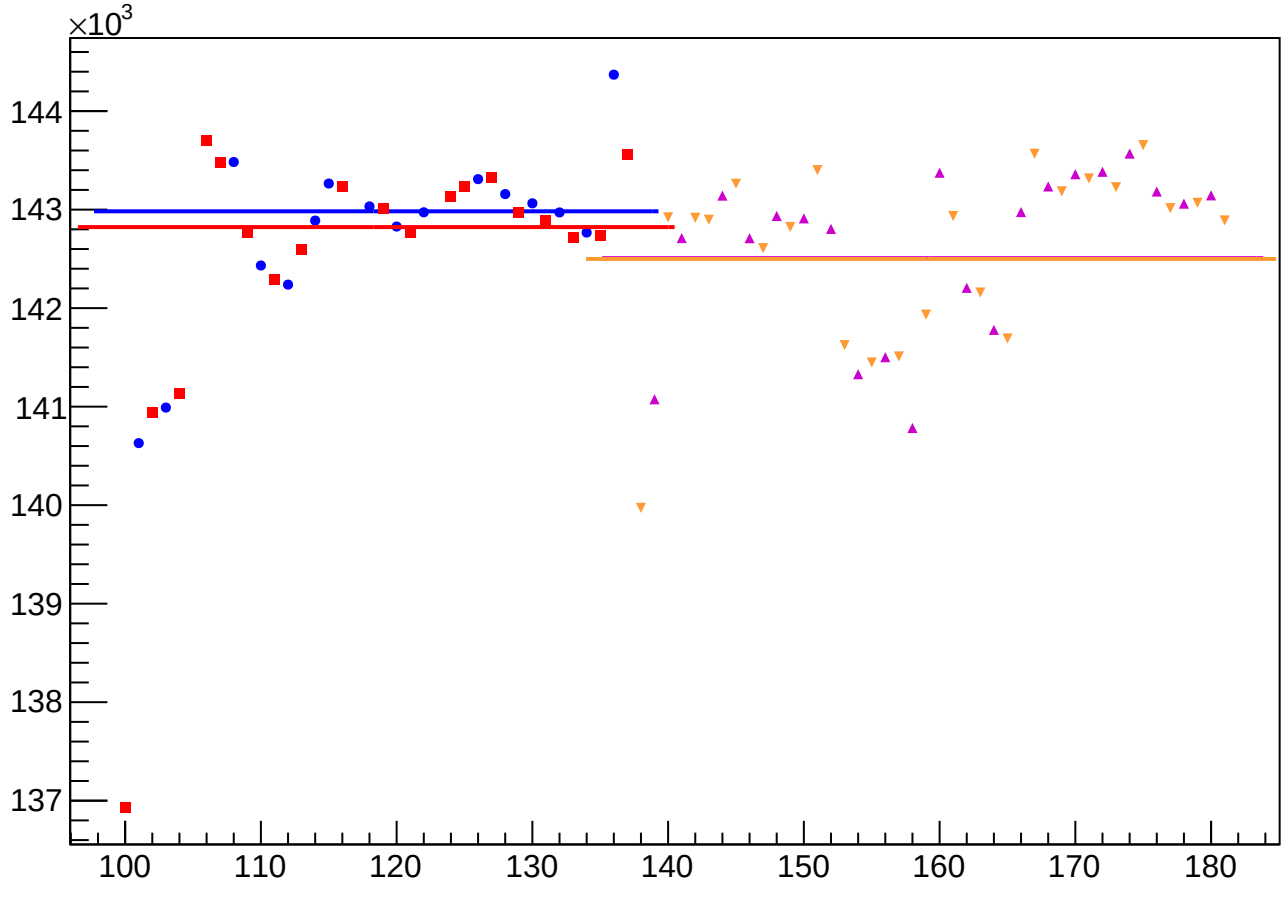
Left: 229.694+/-0.028 $\chi^2$/NDF: 784116.0/43

Right: 167.177+/-0.033 $\chi^2$/NDF: 2394232.5/34

In: 205.915+/-0.031 $\chi^2$/NDF:2316808.6/36

Out: 202.046+/-0.029 $\chi^2$/NDF:2966678.9/41

All: 203.901+/-0.021 $\chi^2$/NDF: 5291823.9/78




Right In: 142983.006+/-0.069 $\chi^2$/NDF: 107696217.2/15

Left Out: 142499.315+/-0.052 $\chi^2$/NDF:336352925.9/22

Right Out: 142822.727+/-0.064 $\chi^2$/NDF: 63581232.6/18

Left In: 142507.845+/-0.053 $\chi^2$/NDF:269271251.6/20

Left: 142503.450+/-0.037 $\chi^2$/NDF: 605637357.3/43

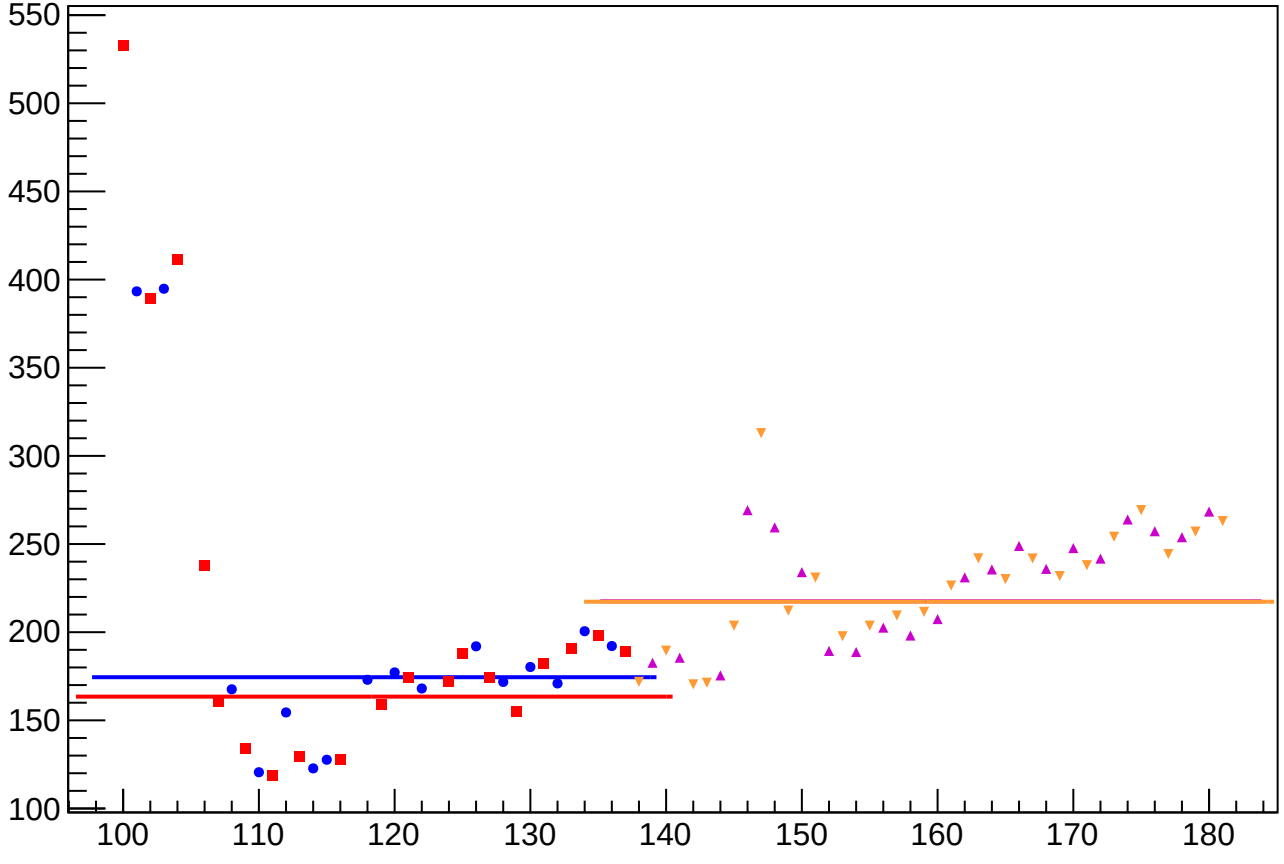
Right: 142896.762+/-0.047 $\chi^2$/NDF: 174171580.7/3

In: 142685.192+/-0.042 $\chi^2$/NDF:406595224.5/36

Out: 142627.049+/-0.040 $\chi^2$/NDF:415368973.3/41

All: 142654.725+/-0.029 $\chi^2$/NDF: 82295787

# yield_bpm0l10WS_rms vs Slug, Sign Corrected




Right In: 174.467+/-0.049 $\chi^2$/NDF: 1049126.7/15

Left Out: 217.275+/-0.037 $\chi^2$/NDF:773860.2/22

Right Out: 163.448+/-0.045 $\chi^2$/NDF: 1282494.1/18

Left In: 217.520+/-0.038 $\chi^2$/NDF:698091.1/20

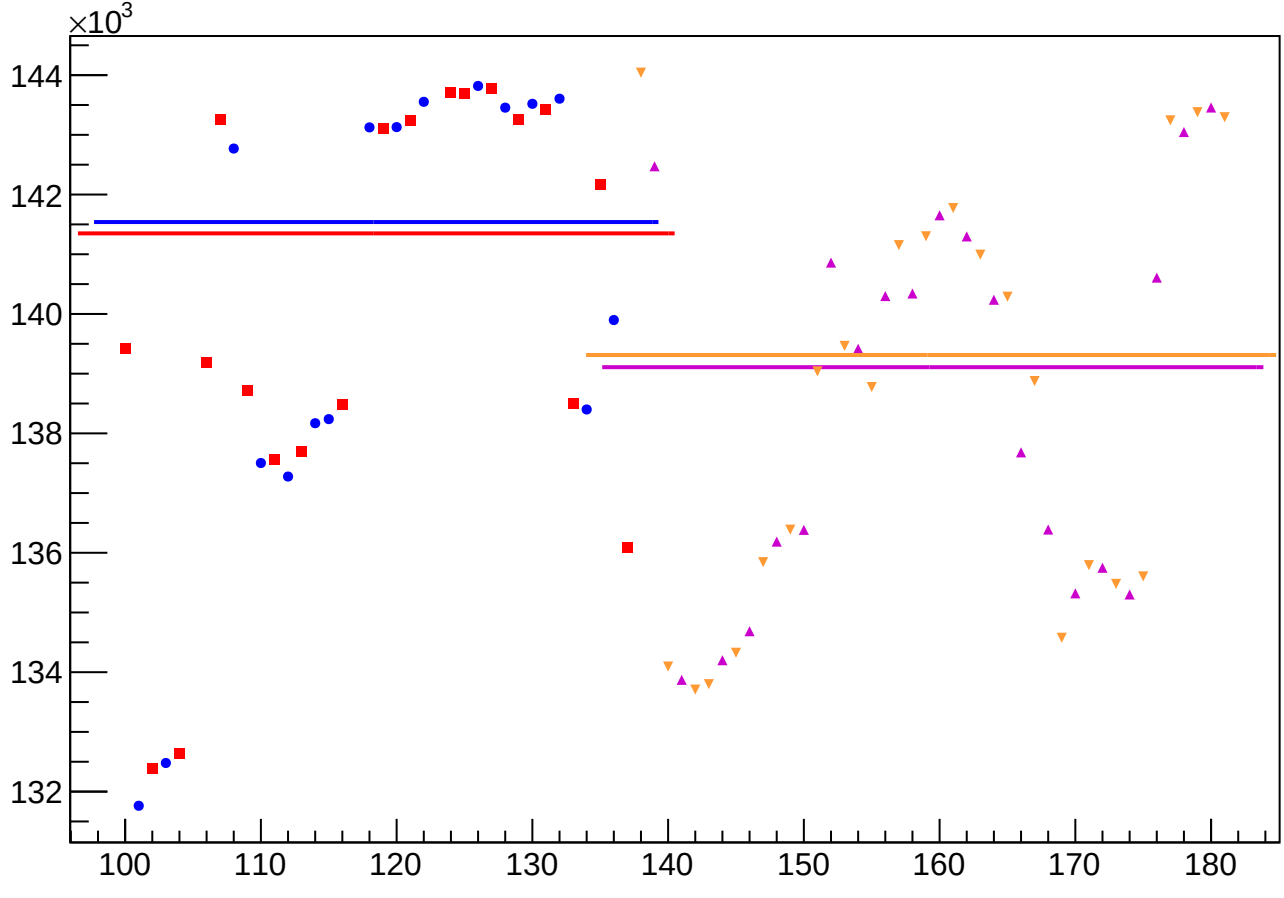
Left: 217.394+/-0.026 $\chi^2$/NDF: 1471973.2/43

Right: 168.538+/-0.033 $\chi^2$/NDF: 2358977.1/34

In: 201.451+/-0.030 $\chi^2$/NDF:2233692.7/36

Out: 196.016+/-0.028 $\chi^2$/NDF:2911449.1/41

All: 198.603+/-0.021 $\chi^2$/NDF: 5162511.7/78




Right In: 141539.467+/-0.101 $\chi^2$/NDF: 947743743.7/15

Left Out: 139312.760+/-0.072 $\chi^2$/NDF:2388762207.9/22

Right Out: 141349.499+/-0.101 $\chi^2$/NDF: 926661757.9/18

Left In: 139108.582+/-0.076 $\chi^2$/NDF:1736240545.5/20

Left: 139215.127+/-0.052 $\chi^2$/NDF: 4128810798.9/4

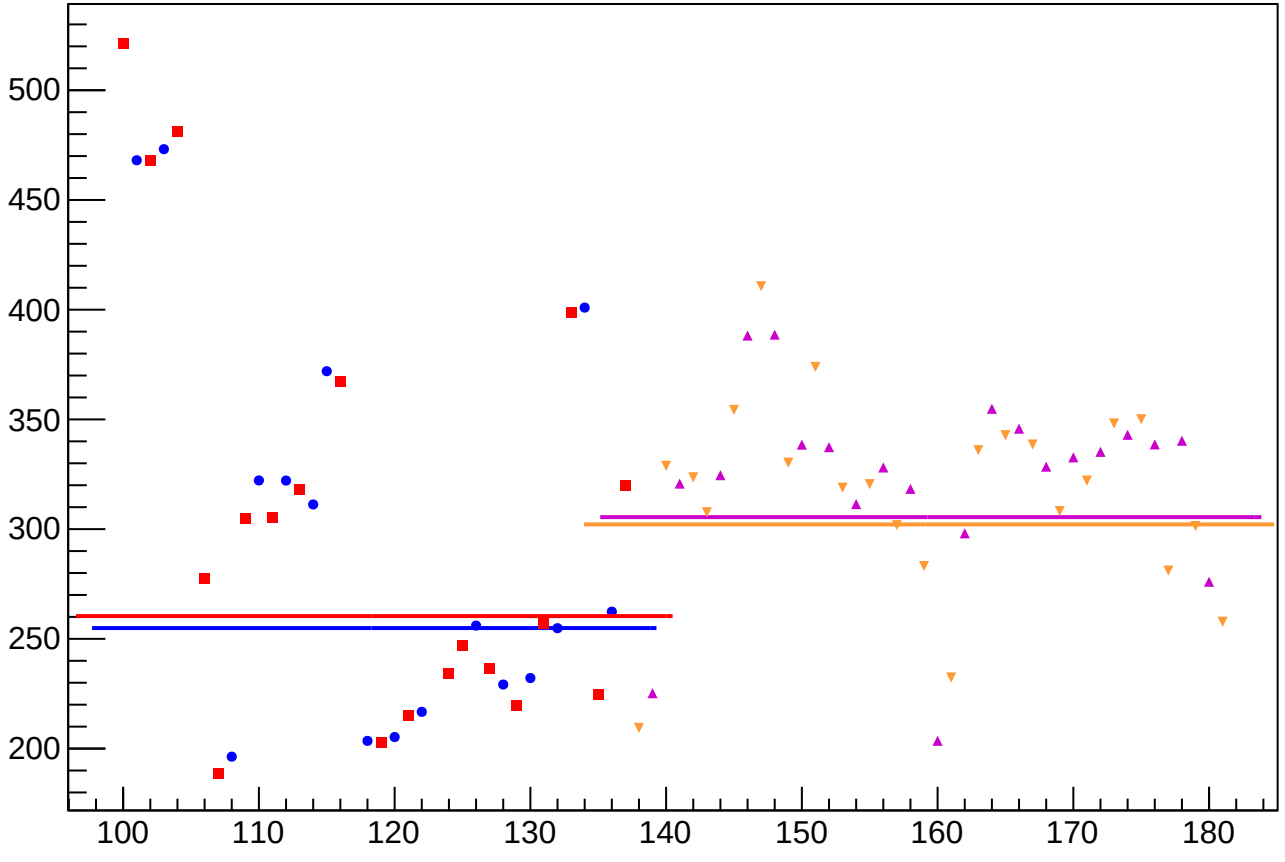
Right: 141444.713+/-0.071 $\chi^2$/NDF: 1876176691.0/

In: 139983.323+/-0.060 $\chi^2$/NDF:3056206086.2/36

Out: 140002.997+/-0.059 $\chi^2$/NDF:3583975926.8/4

All: 139993.431+/-0.042 $\chi^2$/NDF: 66402363

# yield_bpm0r03WS_rms vs Slug, Sign Corrected




Right In: 254.919+/-0.071 $\chi^2$/NDF: 949952.1/15

Left Out: 302.141+/-0.051 $\chi^2$/NDF:868526.1/22

Right Out: 260.369+/-0.071 $\chi^2$/NDF: 993300.6/18

Left In: 305.468+/-0.053 $\chi^2$/NDF:959431.9/20

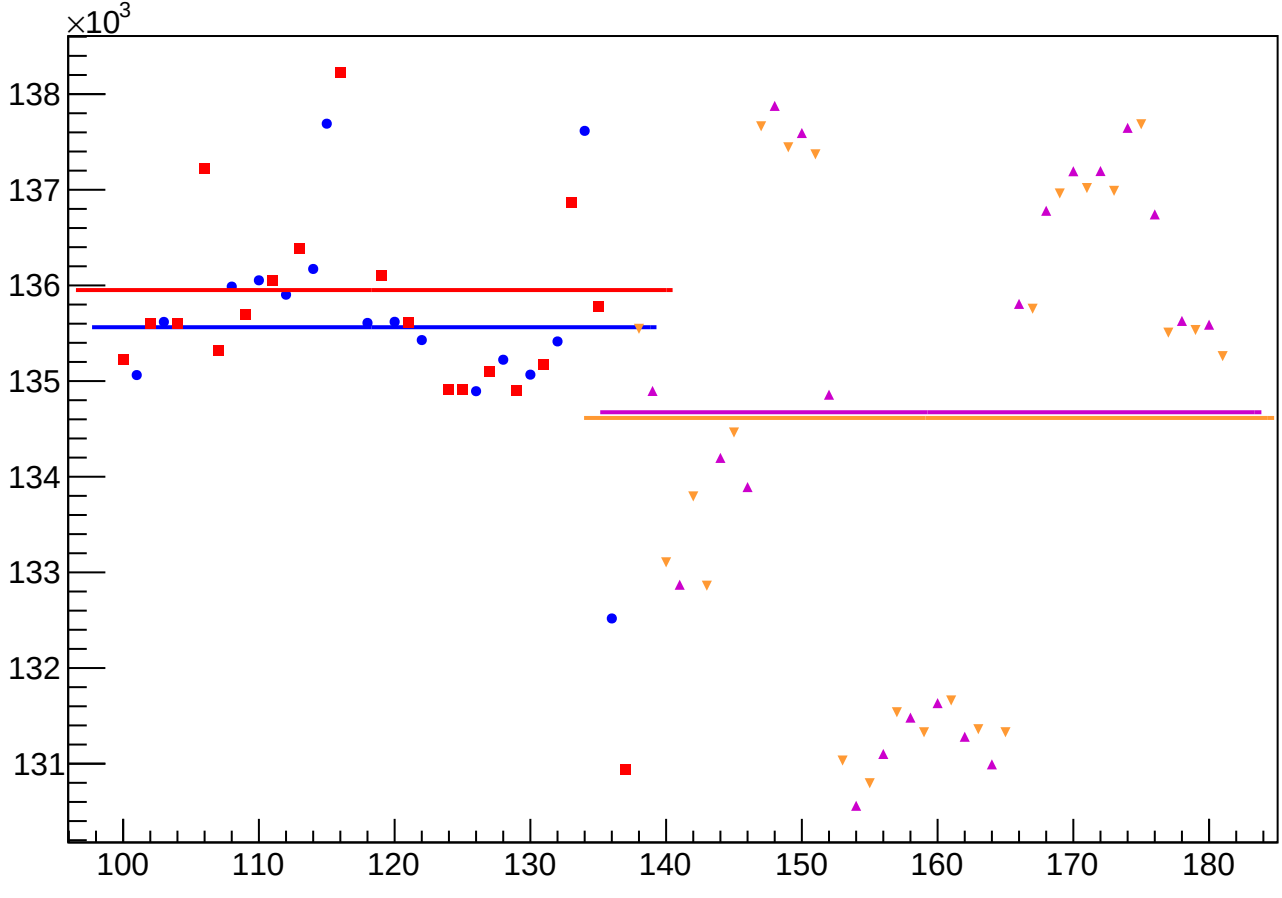
Left: 303.732+/-0.037 $\chi^2$/NDF: 1829980.4/43

Right: 257.637+/-0.050 $\chi^2$/NDF: 1946167.7/34

In: 287.278+/-0.043 $\chi^2$/NDF:2231290.1/36

Out: 287.985+/-0.042 $\chi^2$/NDF:2087753.9/41

All: 287.641+/-0.030 $\chi^2$/NDF: 4319184.1/78




Right In: 135563.062+/-0.118 $\chi^2$/NDF: 94169293.7/15

Left Out: 134614.488+/-0.065 $\chi^2$/NDF:1201082758.9/22

Right Out: 135951.486+/-0.106 $\chi^2$/NDF: 91577209.6/18

Left In: 134674.170+/-0.068 $\chi^2$/NDF:1096121418.1/20

Left: 134642.813+/-0.047 $\chi^2$/NDF: 2297609772.1/4

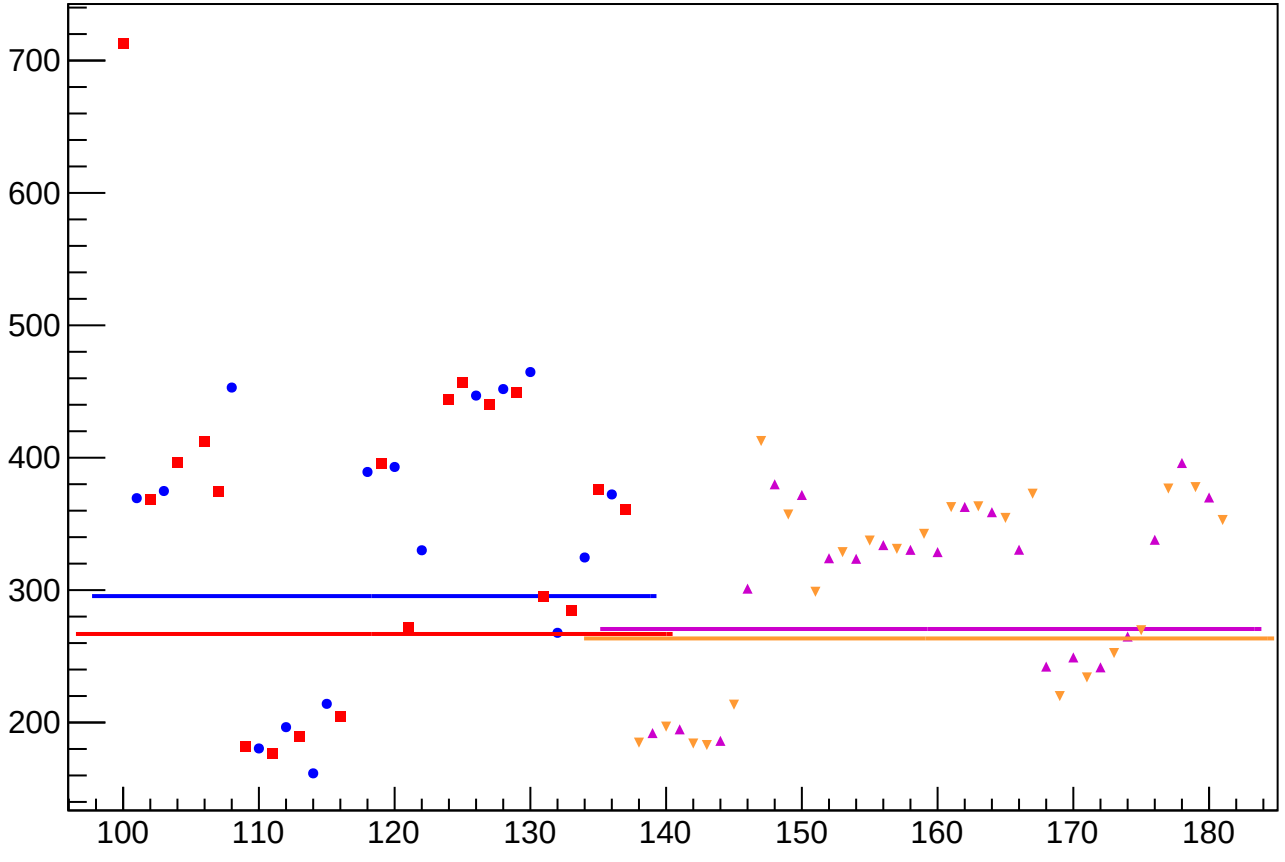
Right: 135777.958+/-0.079 $\chi^2$/NDF: 191705440.0/3

In: 134894.422+/-0.059 $\chi^2$/NDF:1232720987.7/36

Out: 134974.485+/-0.055 $\chi^2$/NDF:1408143300.1/4

All: 134937.066+/-0.040 $\chi^2$/NDF: 26418479

# yield_bpm0r05WS_rms vs Slug, Sign Corrected




Right In: 295.481+/-0.084 $\chi^2$/NDF: 1442531.9/15

Left Out: 263.487+/-0.046 $\chi^2$/NDF:2601832.3/22

Right Out: 266.864+/-0.075 $\chi^2$/NDF: 1678073.6/18

Left In: 270.626+/-0.048 $\chi^2$/NDF:2054933.9/20

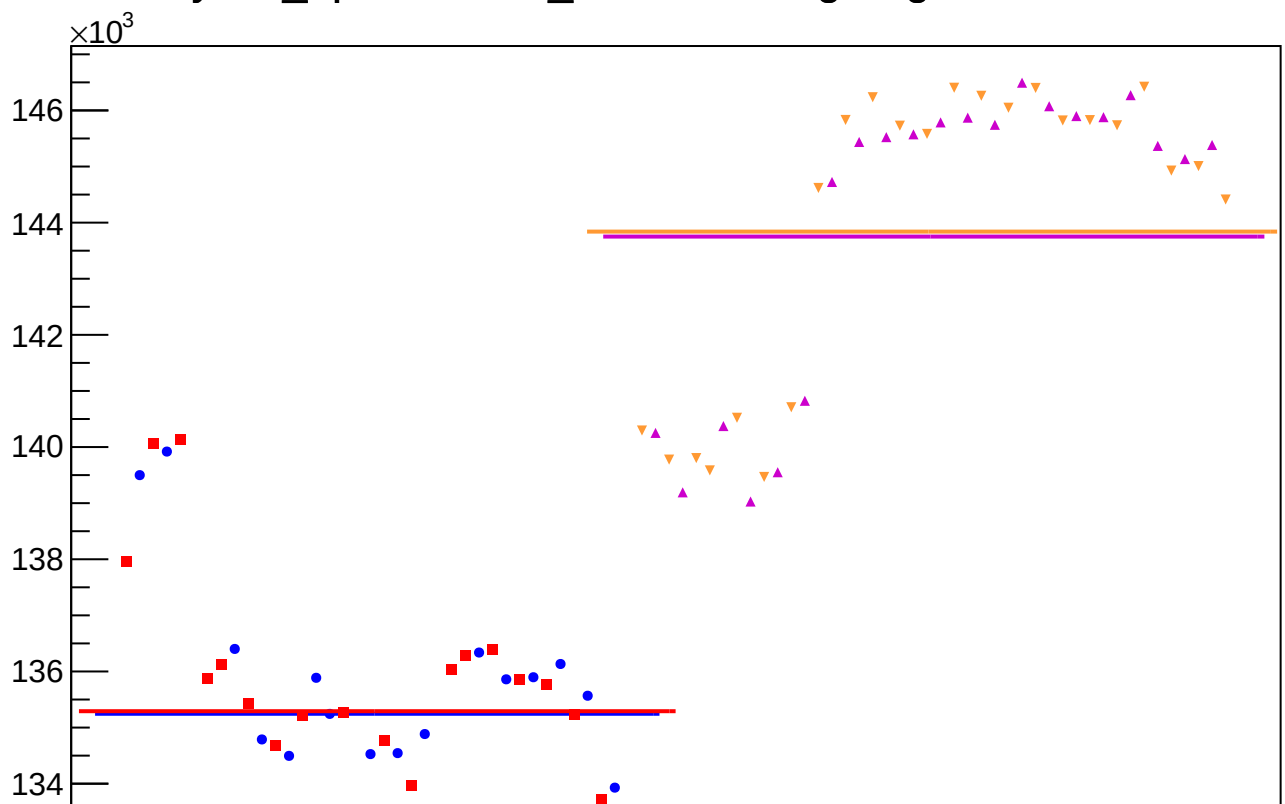
Left: 266.875+/-0.033 $\chi^2$/NDF: 4668373.7/43

Right: 279.649+/-0.056 $\chi^2$/NDF: 3185297.4/34

In: 276.785+/-0.042 $\chi^2$/NDF:3563814.4/36

Out: 264.396+/-0.039 $\chi^2$/NDF:4281379.1/41

All: 270.187+/-0.028 $\chi^2$/NDF: 7892298.6/78




Right In: 135246.269+/-0.055 $\chi^2$/NDF: 388384719.1/15

Left Out: 143840.330+/-0.049 $\chi^2$/NDF:3125897170.5/22

Right Out: 135291.851+/-0.052 $\chi^2$/NDF: 381790556.0/18

Left In: 143751.566+/-0.052 $\chi^2$/NDF:2797049131.3/20

Left: 143798.329+/-0.036 $\chi^2$/NDF: 5924497395.4/4

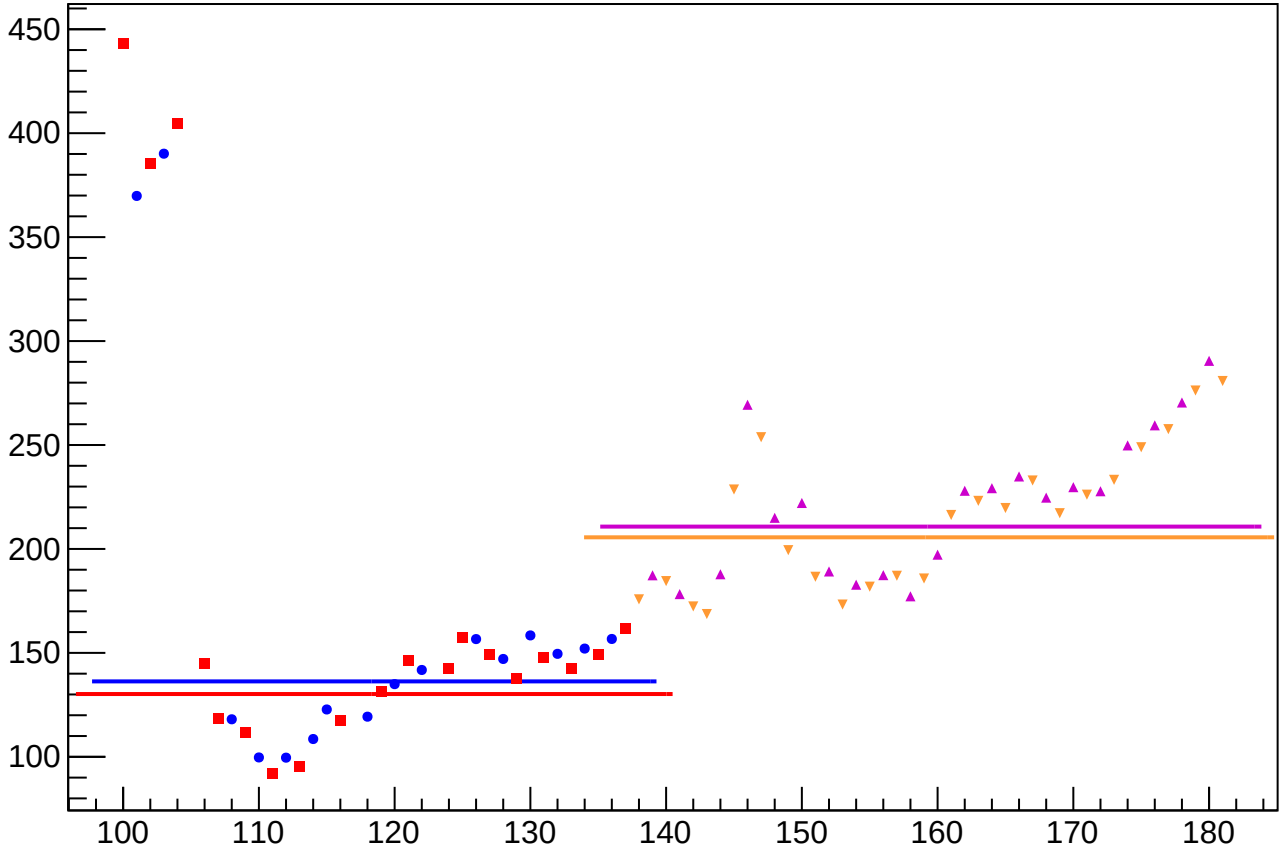
Right: 135270.332+/-0.038 $\chi^2$/NDF: 770541555.9/3

In: 139737.693+/-0.038 $\chi^2$/NDF:15942556798.5/3

Out: 139796.953+/-0.036 $\chi^2$/NDF:17888178311.1

All: 139768.942+/-0.026 $\chi^2$/NDF: 33832045

# yield_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 136.285+/-0.039 $\chi^2$/NDF: 1384057.4/15

Left Out: 205.593+/-0.035 $\chi^2$/NDF:806340.8/22

Right Out: 130.206+/-0.037 $\chi^2$/NDF: 1520840.8/18

Left In: 210.747+/-0.037 $\chi^2$/NDF:710272.1/20

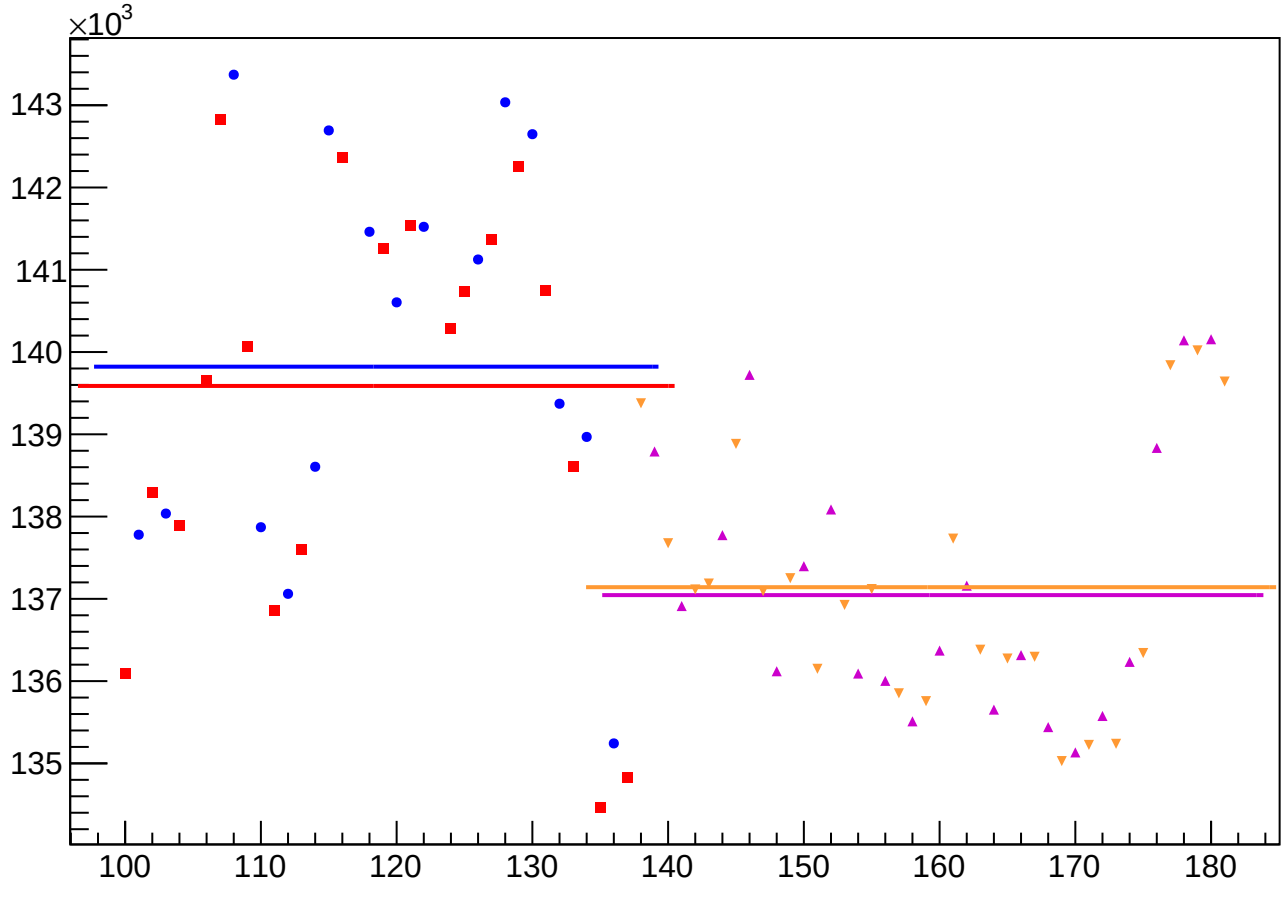
Left: 208.032+/-0.025 $\chi^2$/NDF: 1527072.5/43

Right: 133.076+/-0.027 $\chi^2$/NDF: 2917928.2/34

In: 175.606+/-0.027 $\chi^2$/NDF:4049893.2/36

Out: 169.935+/-0.025 $\chi^2$/NDF:4563933.1/41

All: 172.616+/-0.018 $\chi^2$/NDF: 8637829.2/78




Right In: 139822.122+/-0.063 $\chi^2$/NDF: 1663381581.4/15

Left Out: 137141.679+/-0.050 $\chi^2$/NDF:803301178.6/22

Right Out: 139587.876+/-0.060 $\chi^2$/NDF: 1482934186.2/18

Left In: 137045.400+/-0.052 $\chi^2$/NDF:792143227.0/20

Left: 137095.430+/-0.036 $\chi^2$/NDF: 1597240449.2/4

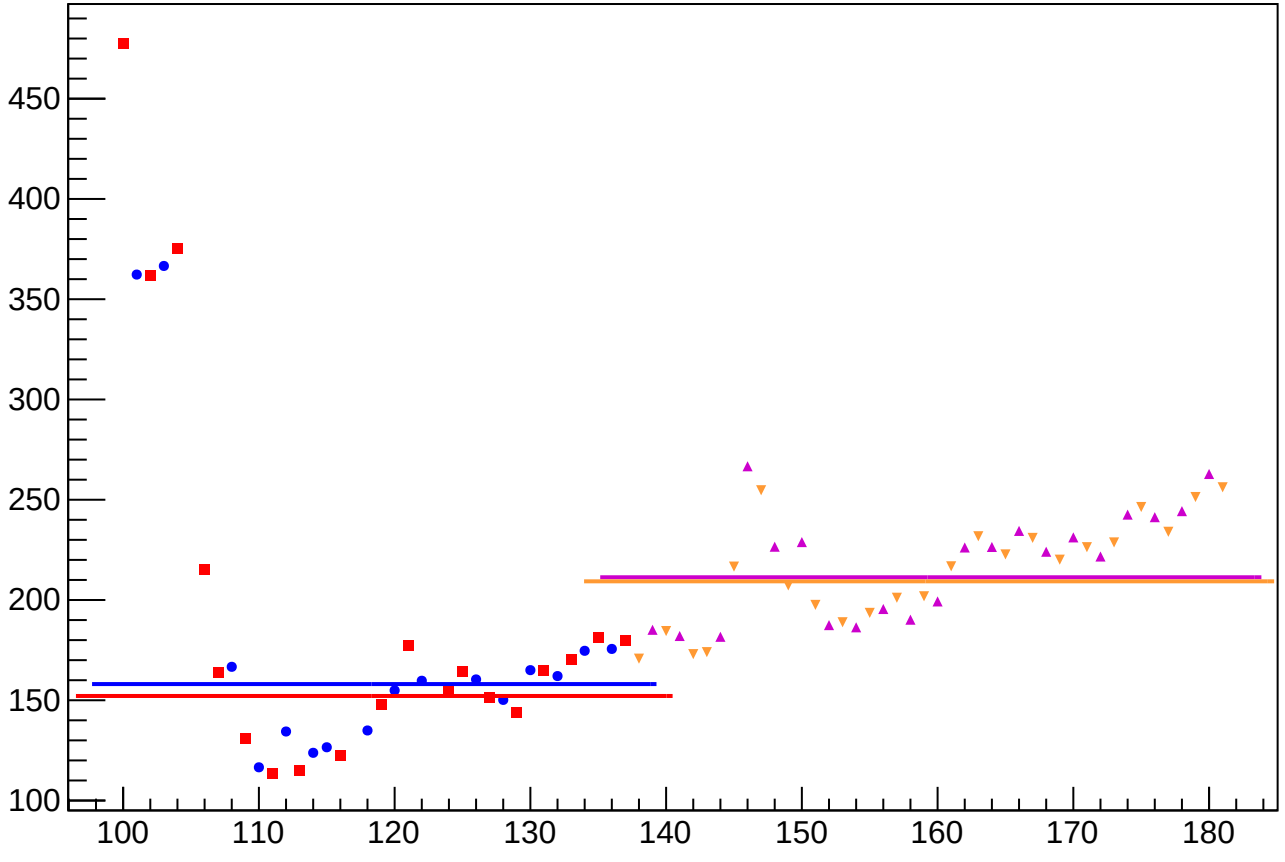
Right: 139699.515+/-0.043 $\chi^2$/NDF: 3153646641.6/

In: 138173.787+/-0.040 $\chi^2$/NDF:3623795956.4/36

Out: 138144.694+/-0.038 $\chi^2$/NDF:3275882792.0/4

All: 138158.625+/-0.028 $\chi^2$/NDF: 68999583

# yield_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 158.079+/-0.044 $\chi^2$/NDF: 1017928.9/15

Left Out: 209.311+/-0.035 $\chi^2$/NDF:518759.7/22

Right Out: 152.139+/-0.042 $\chi^2$/NDF: 1229053.9/18

Left In: 211.335+/-0.037 $\chi^2$/NDF:503564.6/20

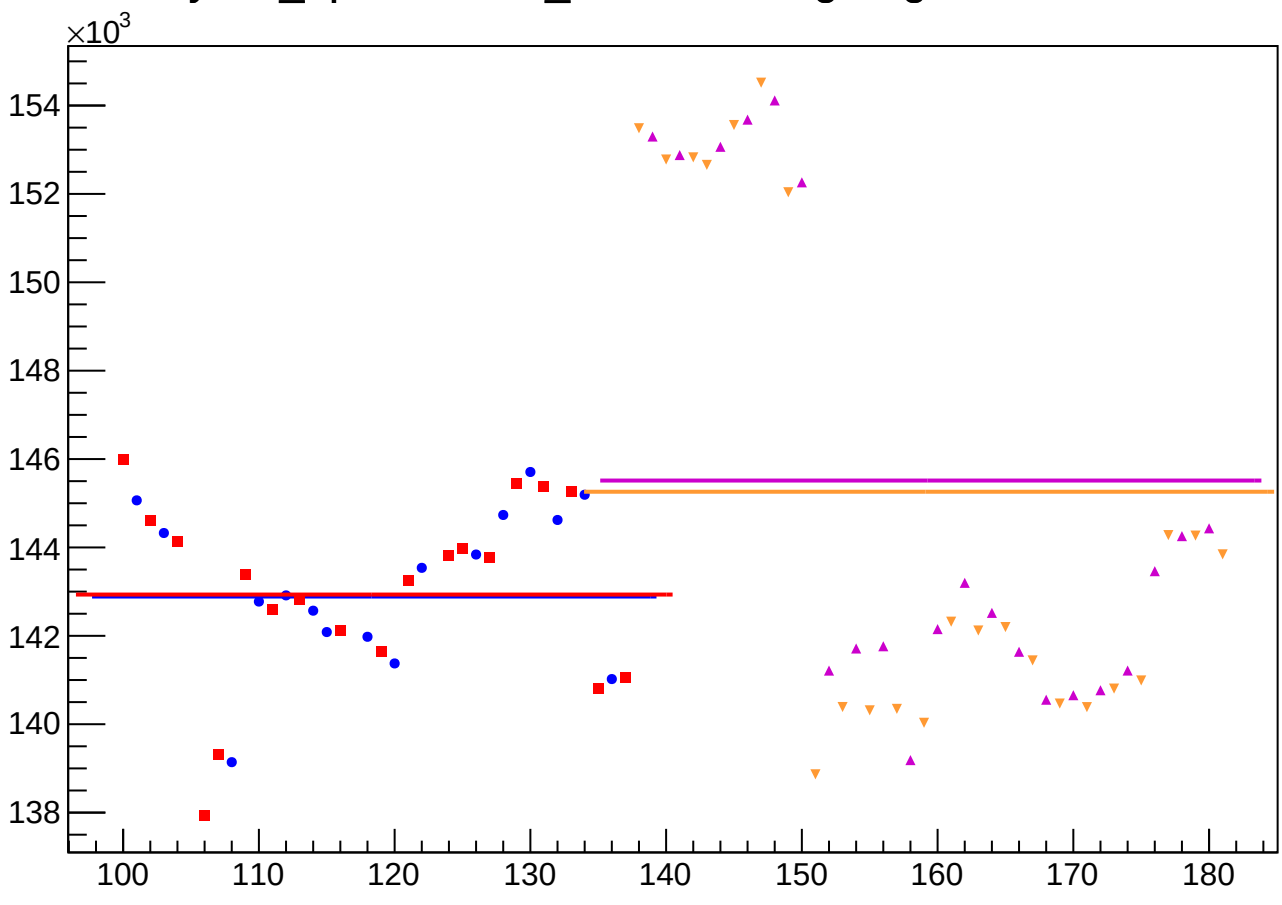
Left: 210.283+/-0.025 $\chi^2$/NDF: 1023911.1/43

Right: 154.970+/-0.031 $\chi^2$/NDF: 2256411.8/34

In: 189.693+/-0.028 $\chi^2$/NDF:2380983.3/36

Out: 185.869+/-0.027 $\chi^2$/NDF:2829002.6/41

All: 187.700+/-0.020 $\chi^2$/NDF: 5219561.3/78




Right In: 142889.386+/-0.066 $\chi^2$/NDF: 763303771.6/15

Left Out: 145260.594+/-0.050 $\chi^2$/NDF:13028642365.4/22

Right Out: 142933.890+/-0.062 $\chi^2$/NDF: 787386856.4/18

Left In: 145513.891+/-0.053 $\chi^2$/NDF:11038439033.0/20

Left: 145382.037+/-0.036 $\chi^2$/NDF: 24079197138.3

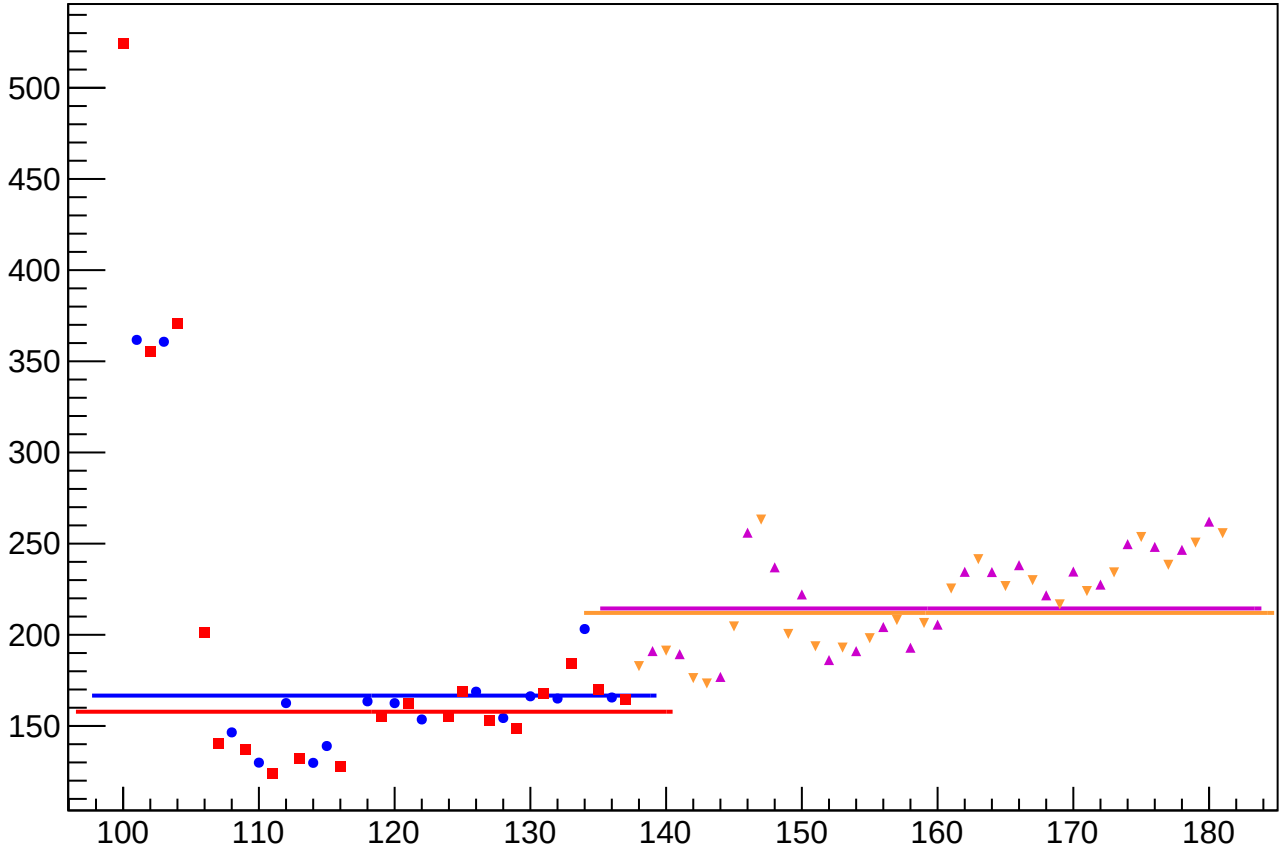
Right: 142913.088+/-0.045 $\chi^2$/NDF: 1550935114.7/

In: 144490.749+/-0.041 $\chi^2$/NDF:12775852909.4/3

Out: 144326.725+/-0.039 $\chi^2$/NDF:14671827510.5

All: 144404.586+/-0.028 $\chi^2$/NDF: 27456083

# yield_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 166.656+/-0.046 $\chi^2$/NDF: 863574.7/15

Left Out: 212.010+/-0.036 $\chi^2$/NDF:495461.0/22

Right Out: 157.809+/-0.044 $\chi^2$/NDF: 1022332.1/18

Left In: 214.446+/-0.037 $\chi^2$/NDF:485437.9/20

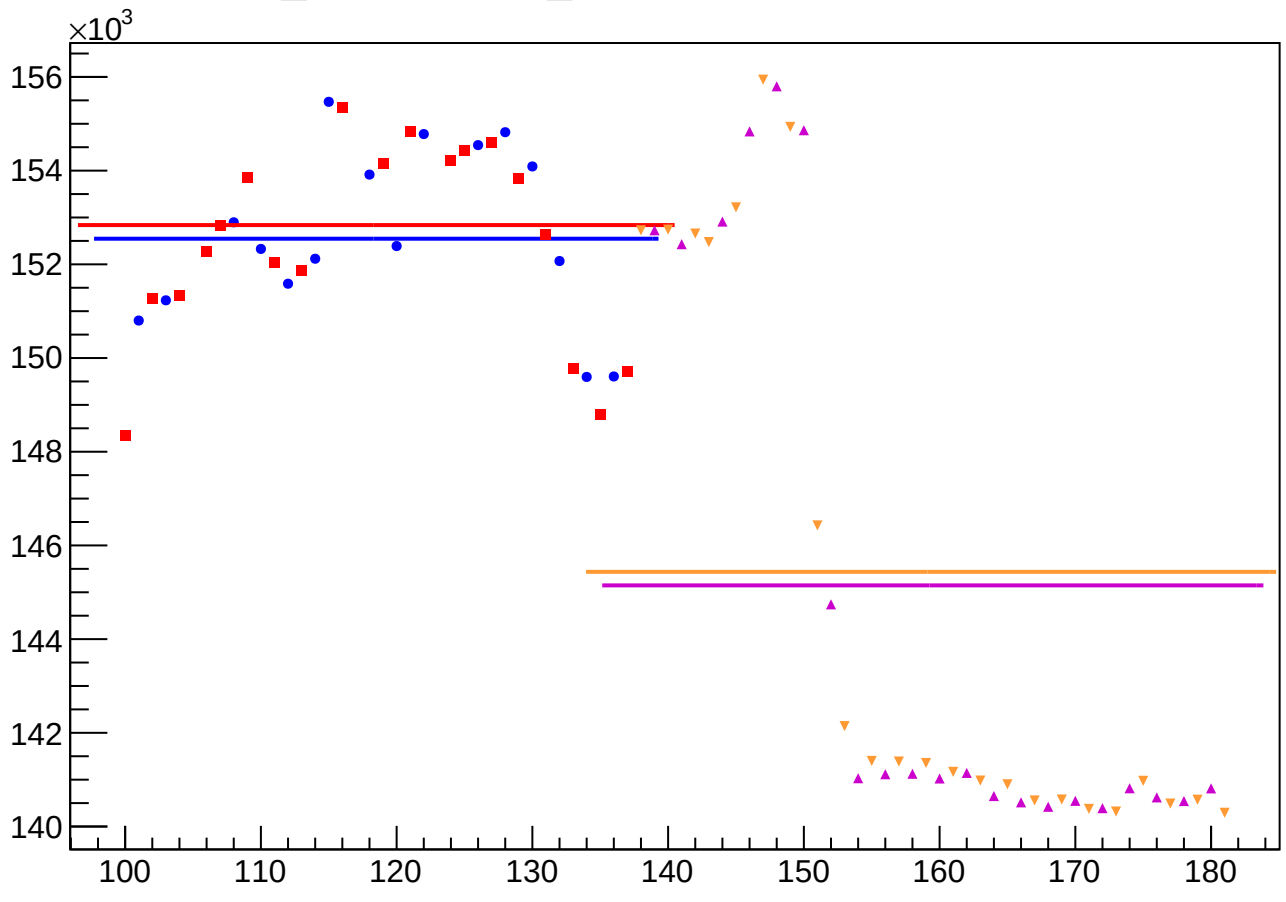
Left: 213.178+/-0.026 $\chi^2$/NDF: 983140.7/43

Right: 161.945+/-0.032 $\chi^2$/NDF: 1905231.4/34

In: 195.816+/-0.029 $\chi^2$/NDF:1994980.4/36

Out: 190.255+/-0.028 $\chi^2$/NDF:2446608.5/41

All: 192.895+/-0.020 $\chi^2$/NDF: 4460902.1/78




Right In: 152546.899+/-0.073 $\chi^2$/NDF: 654540559.6/15

Left Out: 145436.167+/-0.050 $\chi^2$/NDF:13364156712.8/22

Right Out: 152837.888+/-0.067 $\chi^2$/NDF: 736907066.8/18

Left In: 145147.047+/-0.052 $\chi^2$/NDF:12818531448.7/20

Left: 145297.099+/-0.036 $\chi^2$/NDF: 26198643078.2

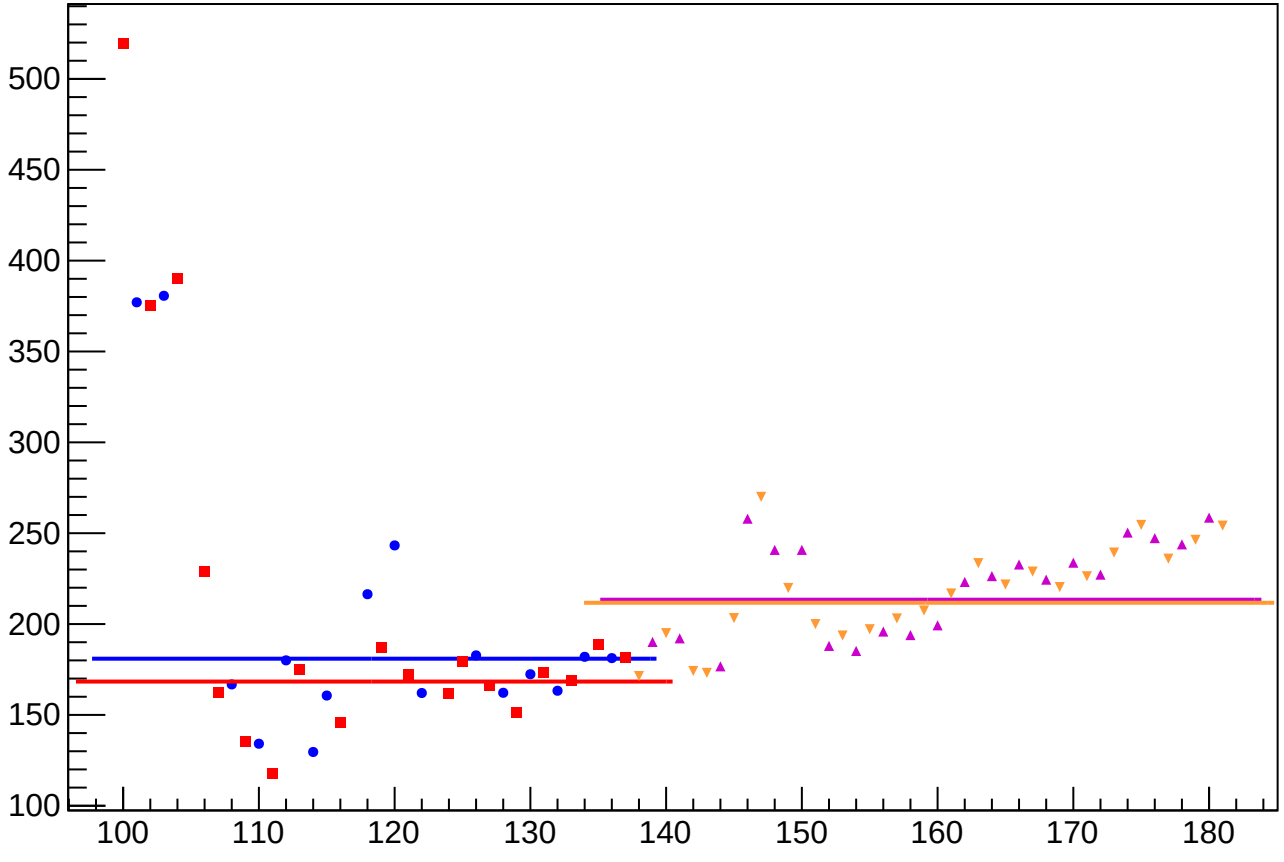
Right: 152704.814+/-0.049 $\chi^2$/NDF: 1400162101.0

In: 147664.645+/-0.042 $\chi^2$/NDF:20324598817.6/3

Out: 148114.771+/-0.040 $\chi^2$/NDF:21968457023.4

All: 147902.007+/-0.029 $\chi^2$/NDF: 42352611

# yield_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 180.938+/-0.051 $\chi^2$/NDF: 907758.2/15

Left Out: 211.714+/-0.035 $\chi^2$/NDF:526870.7/22

Right Out: 168.349+/-0.047 $\chi^2$/NDF: 1089090.2/18

Left In: 213.406+/-0.037 $\chi^2$/NDF:506868.1/20

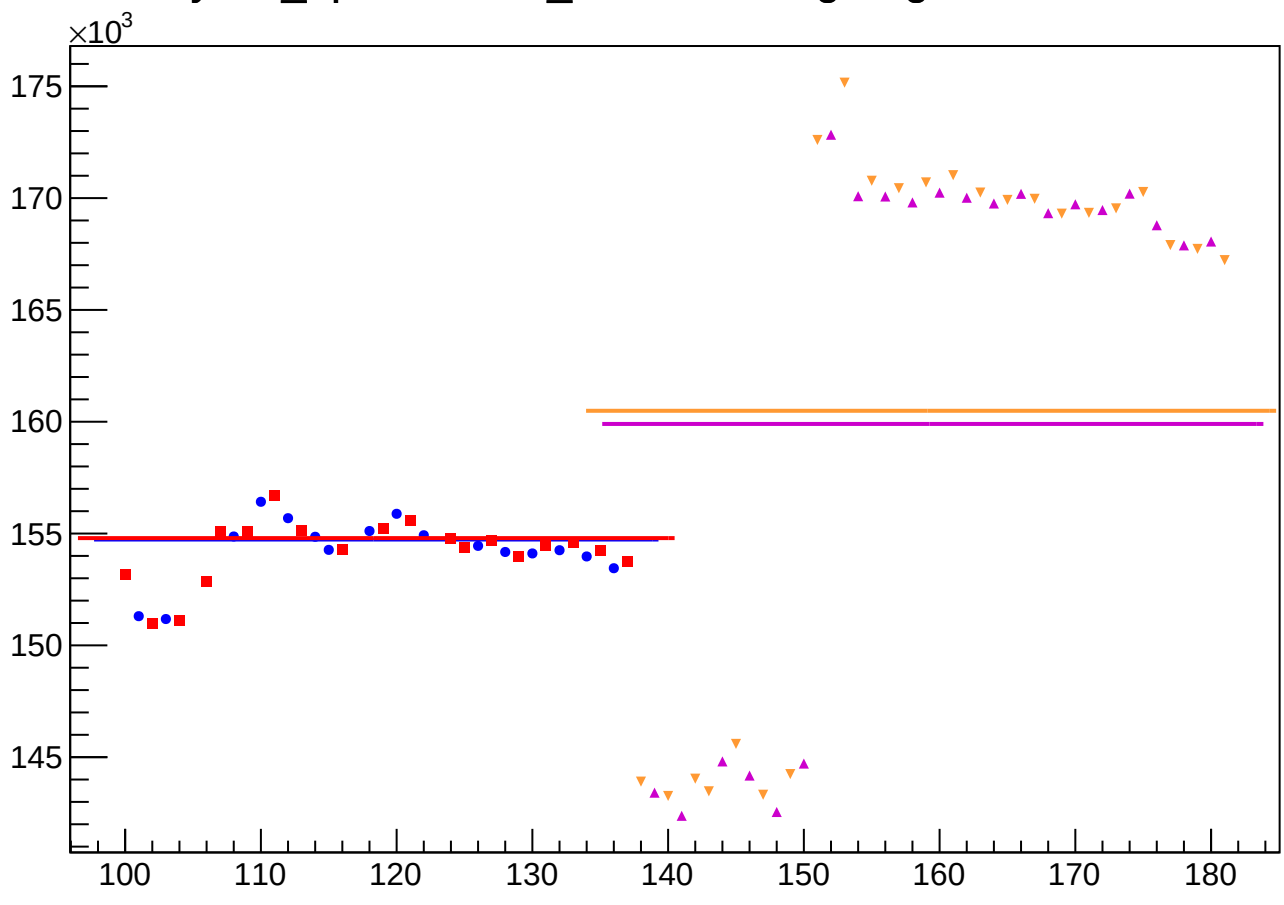
Left: 212.528+/-0.026 $\chi^2$/NDF: 1034832.7/43

Right: 174.106+/-0.035 $\chi^2$/NDF: 2029471.3/34

In: 202.360+/-0.030 $\chi^2$/NDF:1678430.6/36

Out: 196.021+/-0.028 $\chi^2$/NDF:2156049.5/41

All: 199.017+/-0.021 $\chi^2$/NDF: 3858107.0/78




Right In: 154733.155+/-0.065 $\chi^2$/NDF: 274462319.1/15

Left Out: 160489.853+/-0.048 $\chi^2$/NDF:73609659080.8/22

Right Out: 154795.893+/-0.061 $\chi^2$/NDF: 304125082.4/18

Left In: 159901.044+/-0.050 $\chi^2$/NDF:65920304712.1/20

Left: 160207.993+/-0.035 $\chi^2$/NDF: 139601848984.

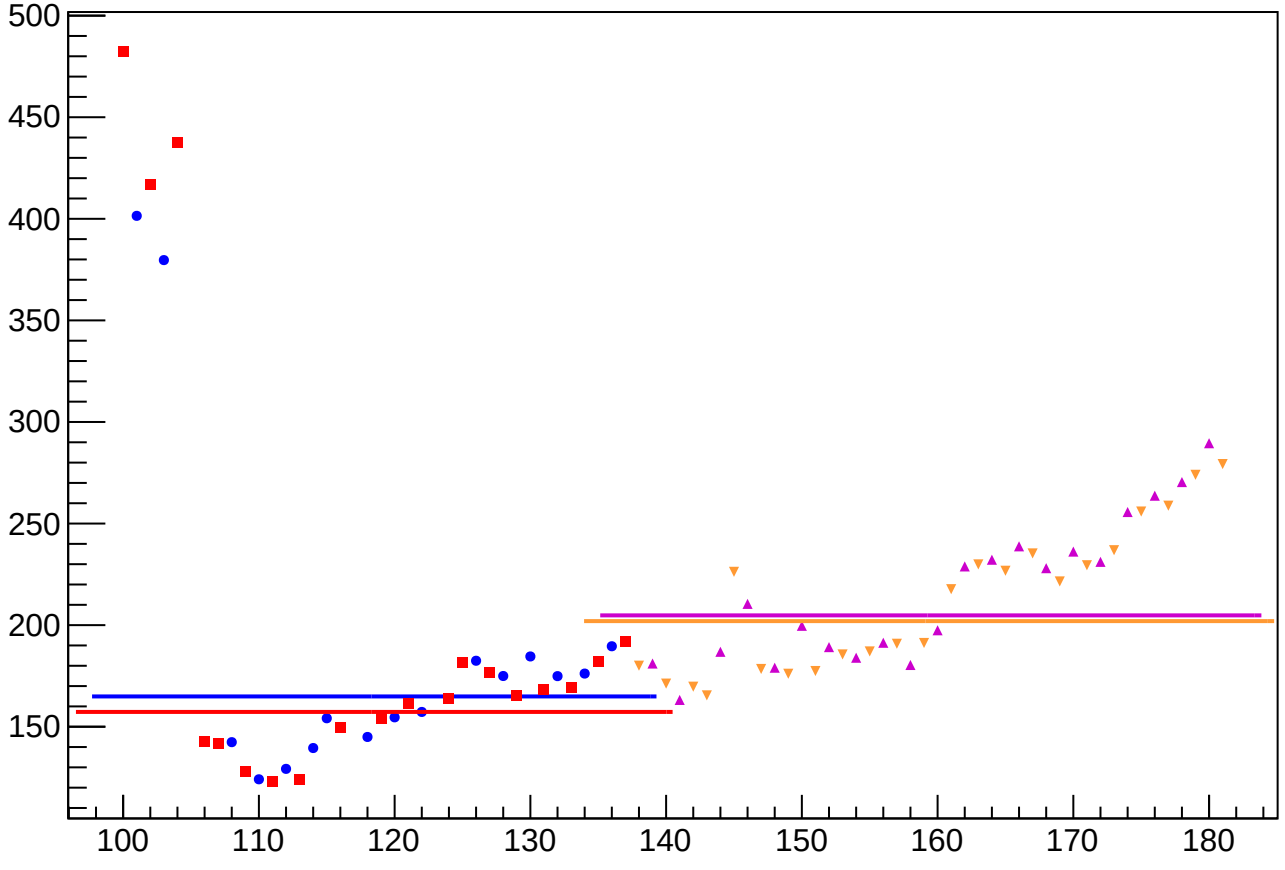
Right: 154766.574+/-0.045 $\chi^2$/NDF: 579080682.1/3

In: 157980.291+/-0.040 $\chi^2$/NDF:70142816309.5/3

Out: 158312.562+/-0.038 $\chi^2$/NDF:79283629418.7

All: 158154.931+/-0.027 $\chi^2$/NDF: 14946317

# yield_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 164.906+/-0.046 $\chi^2$/NDF: 1072730.7/15

Left Out: 201.979+/-0.034 $\chi^2$/NDF:874440.1/22

Right Out: 157.283+/-0.043 $\chi^2$/NDF: 1254831.2/18

Left In: 204.806+/-0.035 $\chi^2$/NDF:779305.9/20

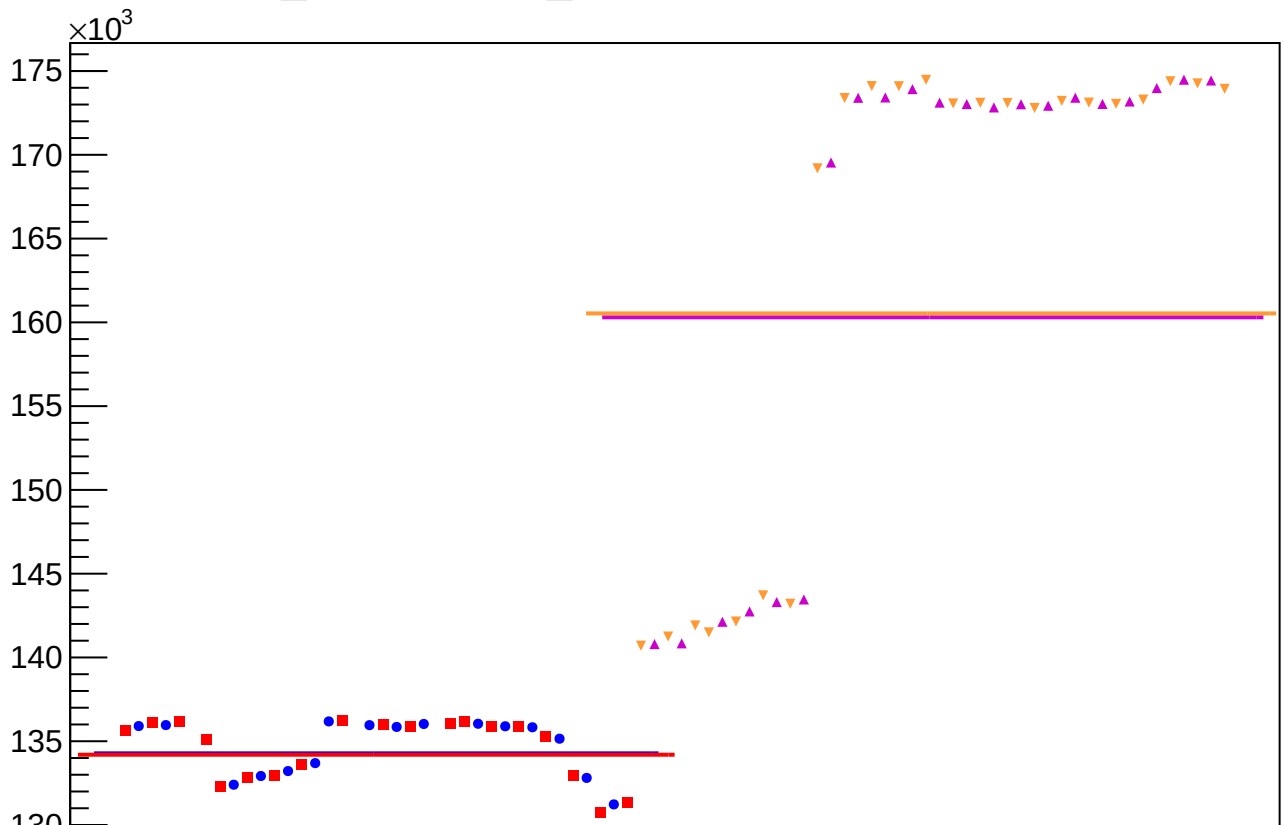
Left: 203.332+/-0.025 $\chi^2$/NDF: 1657061.0/43

Right: 160.846+/-0.032 $\chi^2$/NDF: 2342128.6/34

In: 189.977+/-0.028 $\chi^2$/NDF:2322715.2/36

Out: 184.888+/-0.027 $\chi^2$/NDF:2791021.1/41

All: 187.302+/-0.019 $\chi^2$/NDF: 5130968.2/78




Right In: 134276.096+/-0.051 $\chi^2$/NDF: 1142867100.2/15

Left Out: 160533.750+/-0.049 $\chi^2$/NDF:97432822038.7/22

Right Out: 134195.257+/-0.048 $\chi^2$/NDF: 1205537499.7/18

Left In: 160300.296+/-0.051 $\chi^2$/NDF:88331524992.5/20

Left: 160422.303+/-0.035 $\chi^2$/NDF: 185775177277.

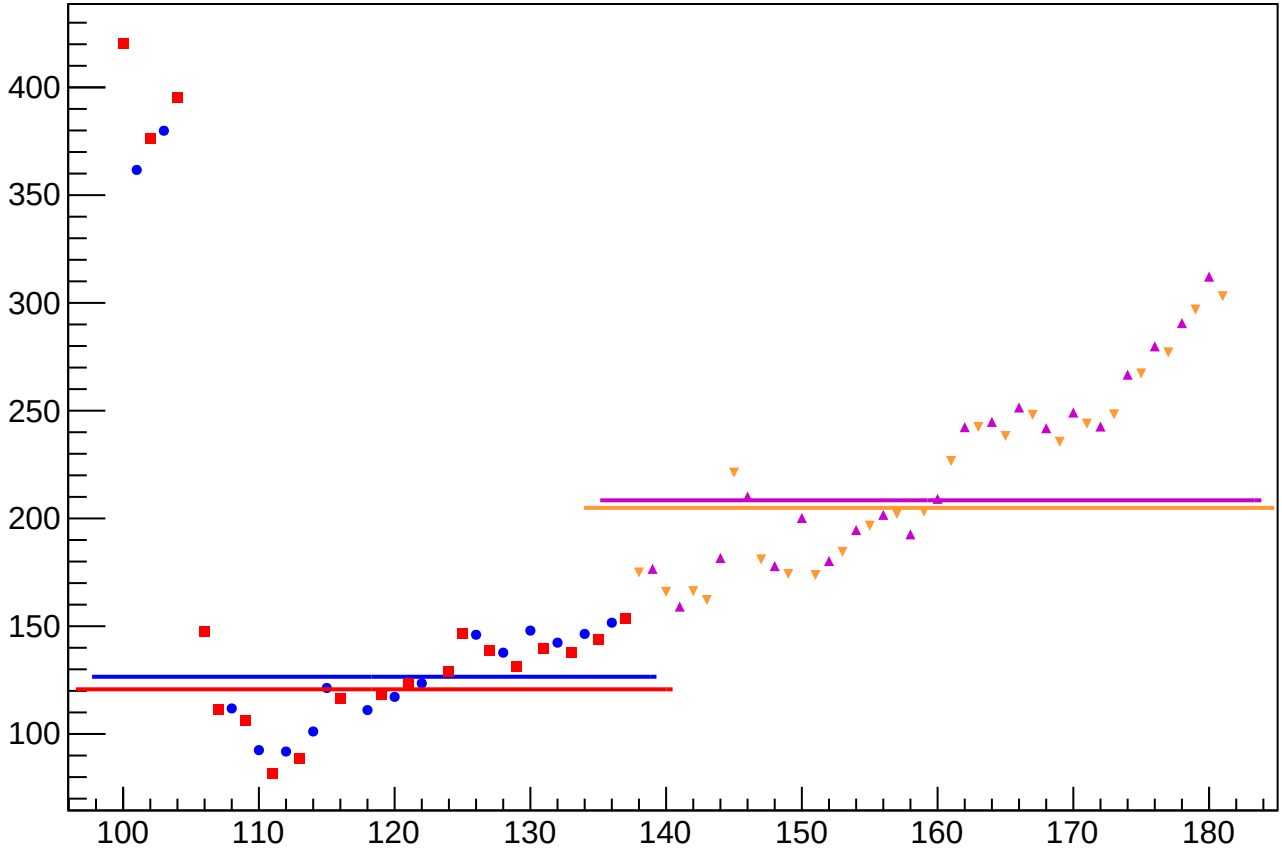
Right: 134233.345+/-0.035 $\chi^2$/NDF: 2349742421.8/

In: 147171.565+/-0.036 $\chi^2$/NDF:219387848420.6

Out: 147082.339+/-0.034 $\chi^2$/NDF:246117021645.

All: 147124.652+/-0.025 $\chi^2$/NDF: 46550808

# yield_bpm1i04WS_rms vs Slug, Sign Corrected




Right In: 126.551+/-0.036 $\chi^2$/NDF: 1477429.4/15

Left Out: 204.924+/-0.035 $\chi^2$/NDF:1231960.6/22

Right Out: 120.723+/-0.034 $\chi^2$/NDF: 1632726.2/18

Left In: 208.411+/-0.036 $\chi^2$/NDF:1070992.0/20

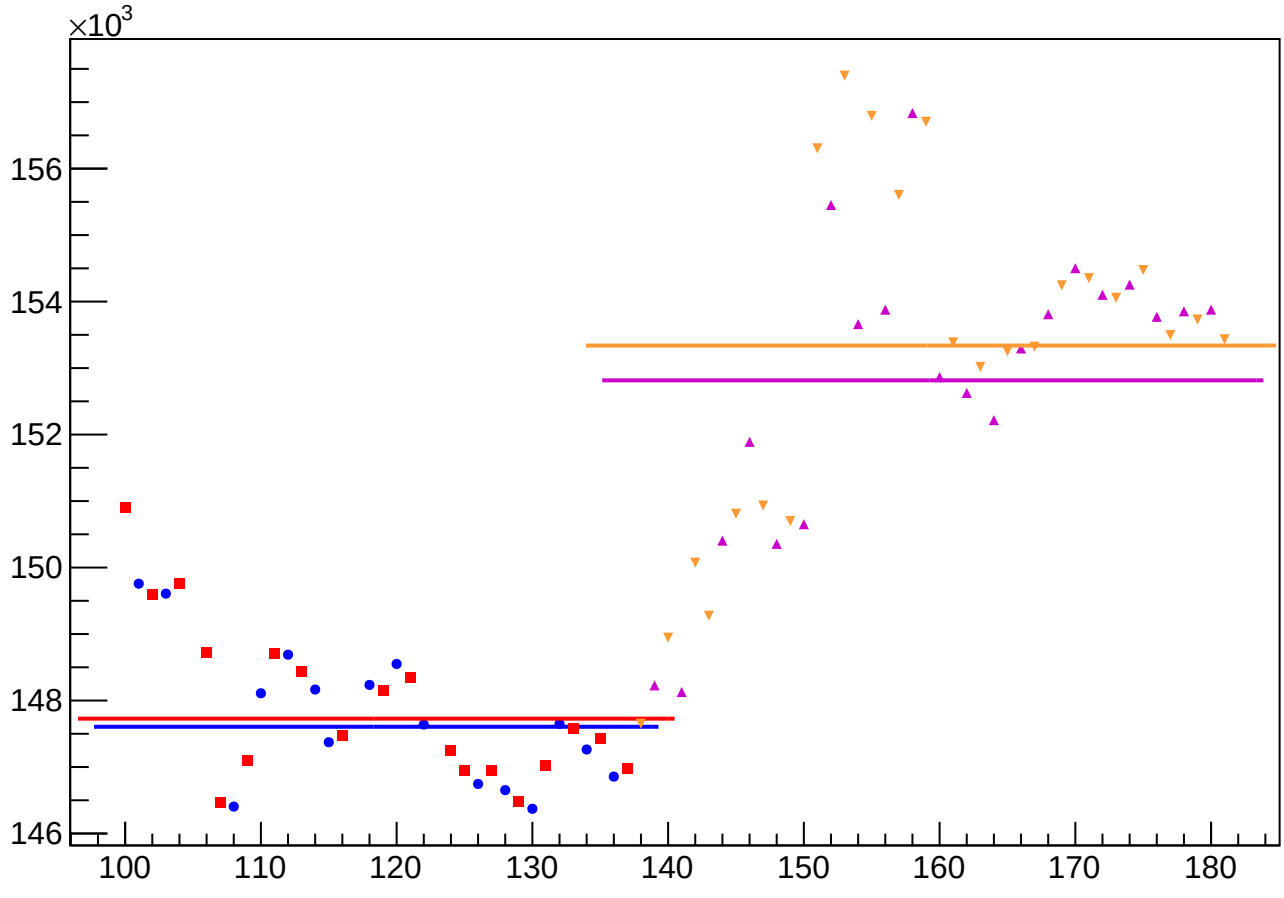
Left: 206.589+/-0.025 $\chi^2$/NDF: 2307785.6/43

Right: 123.469+/-0.025 $\chi^2$/NDF: 3124061.5/34

In: 167.114+/-0.026 $\chi^2$/NDF:5119261.1/36

Out: 161.921+/-0.024 $\chi^2$/NDF:5879149.8/41

All: 164.384+/-0.018 $\chi^2$/NDF: 11020168.2/78




Right In: 147605.604+/-0.062 $\chi^2$/NDF: 200513366.5/15

Left Out: 153338.983+/-0.052 $\chi^2$/NDF:2978185422.9/22

Right Out: 147727.598+/-0.059 $\chi^2$/NDF: 194800119.4/18

Left In: 152815.400+/-0.054 $\chi^2$/NDF:1911458258.2/20

Left: 153087.720+/-0.037 $\chi^2$/NDF: 4939125108.8/4

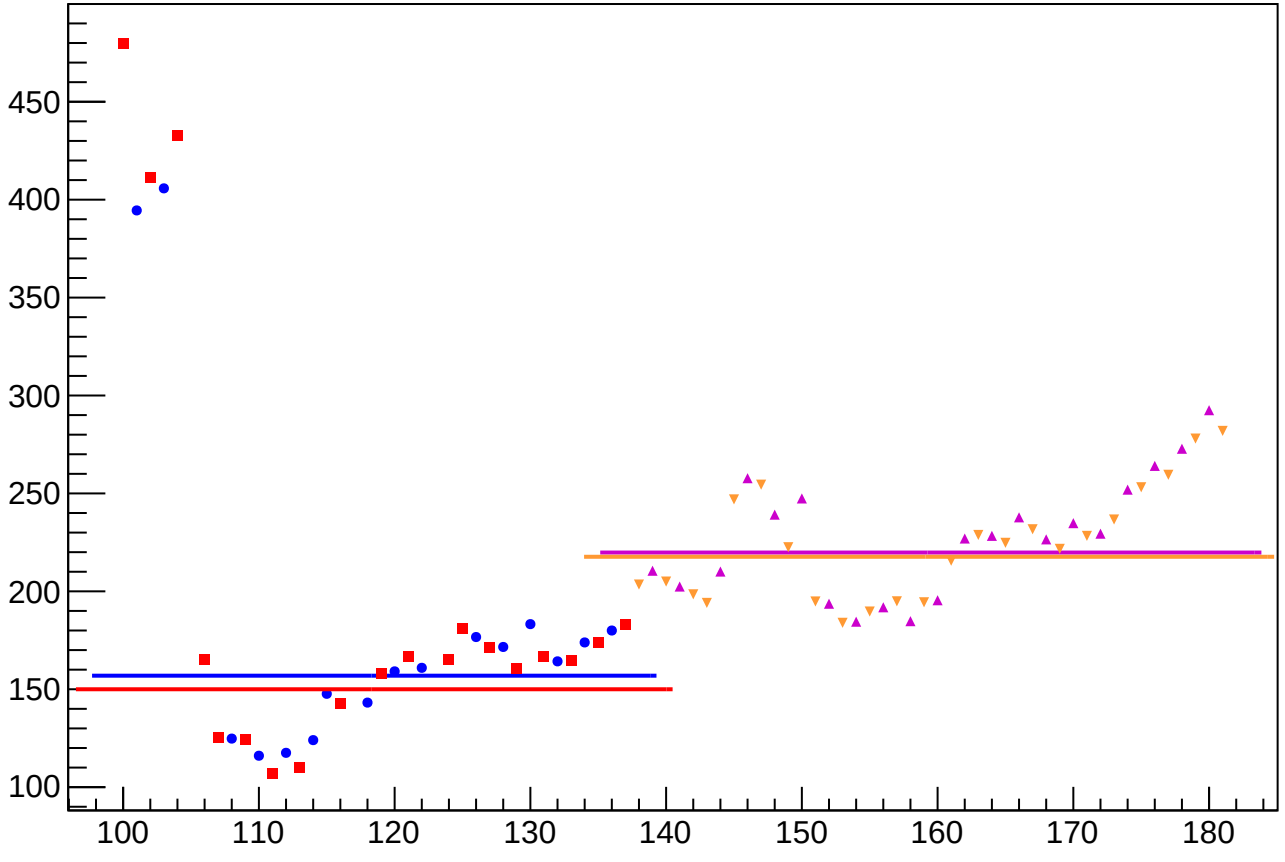
Right: 147670.157+/-0.043 $\chi^2$/NDF: 397331184.2/3

In: 150602.695+/-0.041 $\chi^2$/NDF:6112529291.2/36

Out: 150905.895+/-0.039 $\chi^2$/NDF:8308180079.3/4

All: 150761.568+/-0.028 $\chi^2$/NDF: 14449768

# yield_bpm1i06WS_rms vs Slug, Sign Corrected




Right In: 156.927+/-0.044 $\chi^2$/NDF: 1265768.6/15

Left Out: 217.651+/-0.036 $\chi^2$/NDF:524829.0/22

Right Out: 149.994+/-0.042 $\chi^2$/NDF: 1453928.8/18

Left In: 219.810+/-0.038 $\chi^2$/NDF:564715.4/20

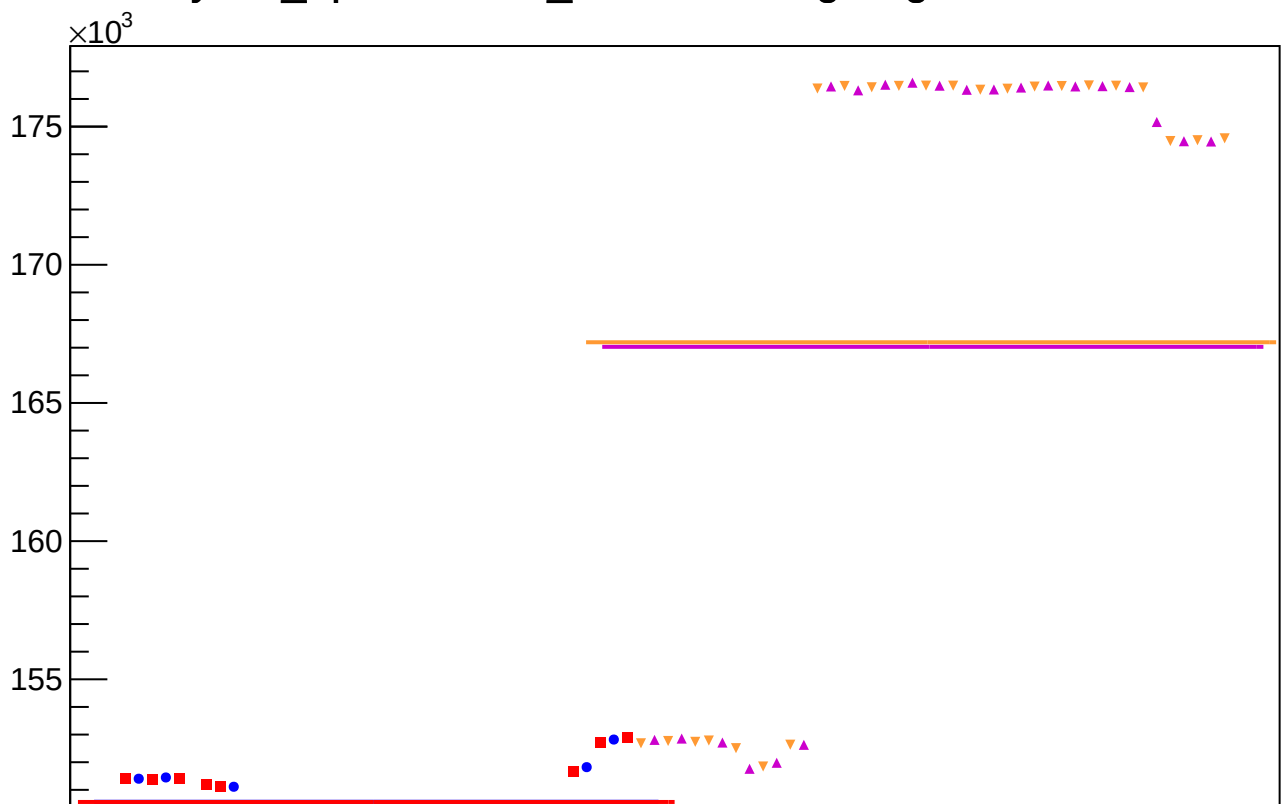
Left: 218.687+/-0.026 $\chi^2$/NDF: 1091227.6/43

Right: 153.258+/-0.030 $\chi^2$/NDF: 2732730.8/34

In: 193.102+/-0.029 $\chi^2$/NDF:2996158.3/36

Out: 188.315+/-0.027 $\chi^2$/NDF:3471794.8/41

All: 190.594+/-0.020 $\chi^2$/NDF: 6482443.2/78




Right In: 150568.638+/-0.055 $\chi^2$/NDF: 237155171.8/15

Left Out: 167196.494+/-0.047 $\chi^2$/NDF:58983675928.2/22

Right Out: 150561.647+/-0.051 $\chi^2$/NDF: 197500782.5/18

Left In: 167031.182+/-0.050 $\chi^2$/NDF:54510583815.3/20

Left: 167117.649+/-0.034 $\chi^2$/NDF: 113500074296.

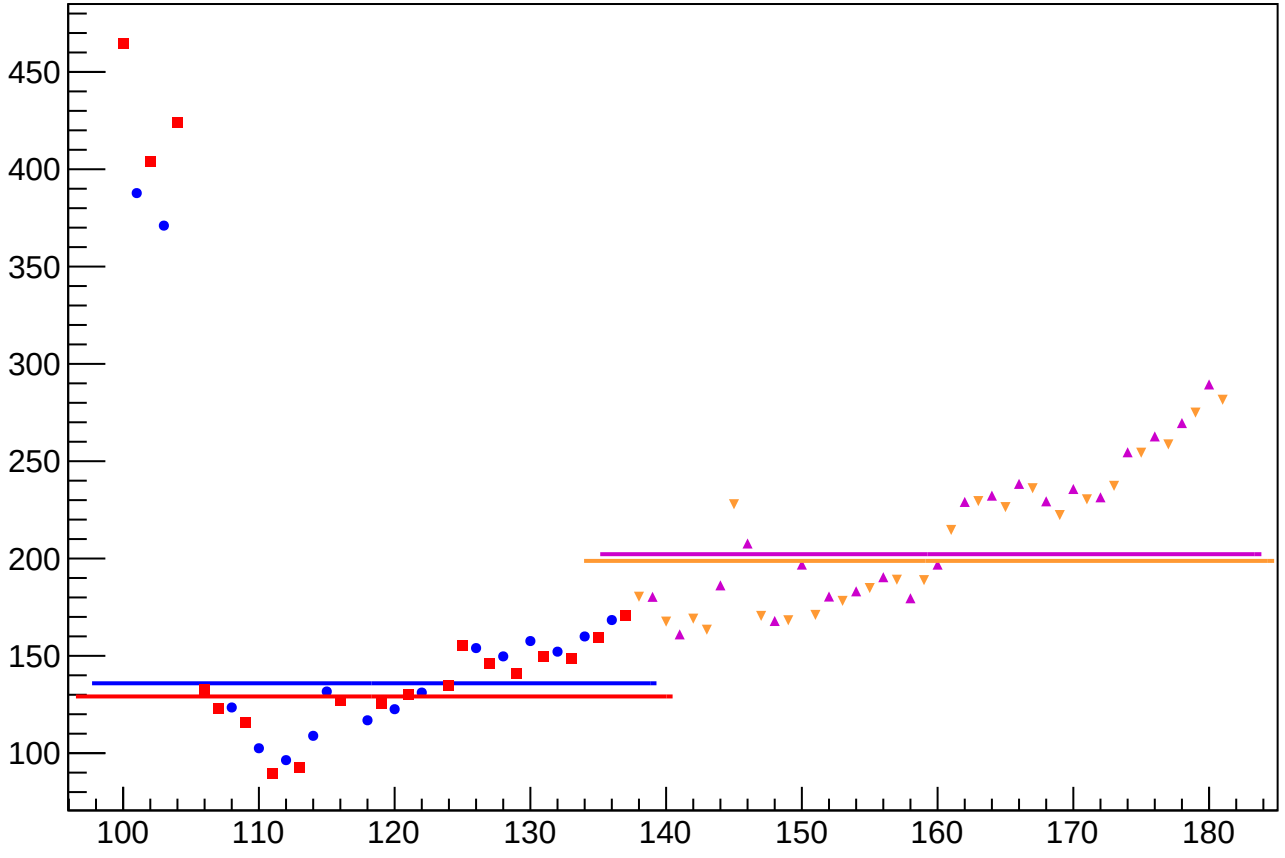
Right: 150564.903+/-0.037 $\chi^2$/NDF: 434664709.4/3

In: 159592.646+/-0.037 $\chi^2$/NDF:104560715415.9

Out: 159493.350+/-0.035 $\chi^2$/NDF:116345115769.

All: 159540.196+/-0.025 $\chi^2$/NDF: 22090969

# yield_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 135.896+/-0.039 $\chi^2$/NDF: 1416332.3/15

Left Out: 198.780+/-0.033 $\chi^2$/NDF:1005607.1/22

Right Out: 129.130+/-0.036 $\chi^2$/NDF: 1614311.0/18

Left In: 202.228+/-0.035 $\chi^2$/NDF:860171.7/20

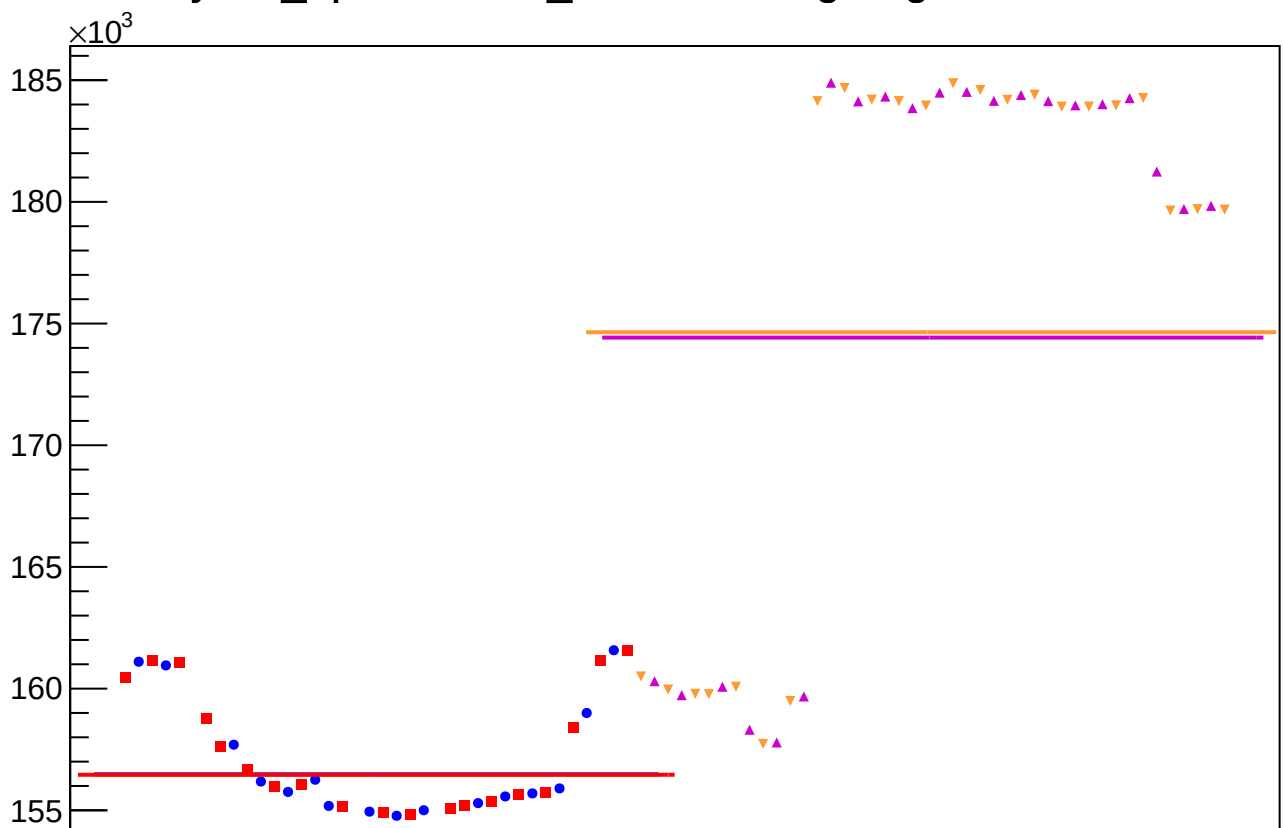
Left: 200.424+/-0.024 $\chi^2$/NDF: 1870835.8/43

Right: 132.281+/-0.026 $\chi^2$/NDF: 3047045.4/34

In: 172.256+/-0.026 $\chi^2$/NDF:3893904.3/36

Out: 166.527+/-0.025 $\chi^2$/NDF:4624178.5/41

All: 169.230+/-0.018 $\chi^2$/NDF: 8543810.0/78




Right In: 156478.318+/-0.057 $\chi^2$/NDF: 1289449253.3/15

Left Out: 174644.041+/-0.049 $\chi^2$/NDF:57843878933.3/22

Right Out: 156460.550+/-0.053 $\chi^2$/NDF: 1100531658.8/18

Left In: 174422.895+/-0.051 $\chi^2$/NDF:54479522538.9/20

Left: 174538.400+/-0.035 $\chi^2$/NDF: 112333182865.

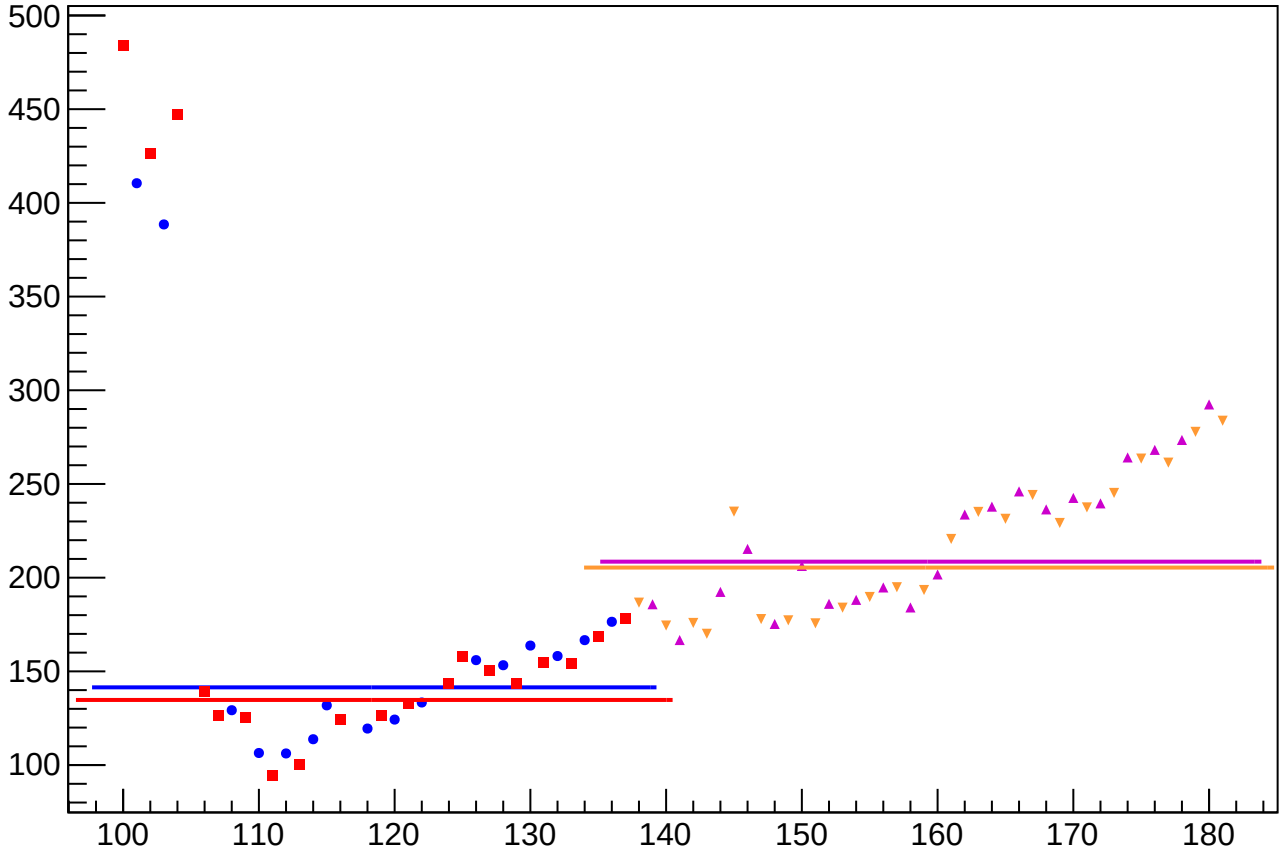
Right: 156468.838+/-0.039 $\chi^2$/NDF: 2390033091.6

In: 166397.718+/-0.038 $\chi^2$/NDF:110914103076.9

Out: 166309.532+/-0.036 $\chi^2$/NDF:122396965622.

All: 166351.210+/-0.026 $\chi^2$/NDF: 233313909

# yield_bpm2i02WS_rms vs Slug, Sign Corrected




Right In: 141.470+/-0.040 $\chi^2$/NDF: 1391933.2/15

Left Out: 205.391+/-0.035 $\chi^2$/NDF:930944.2/22

Right Out: 134.746+/-0.038 $\chi^2$/NDF: 1579031.5/18

Left In: 208.544+/-0.036 $\chi^2$/NDF:821209.5/20

Left: 206.897+/-0.025 $\chi^2$/NDF: 1756131.4/43

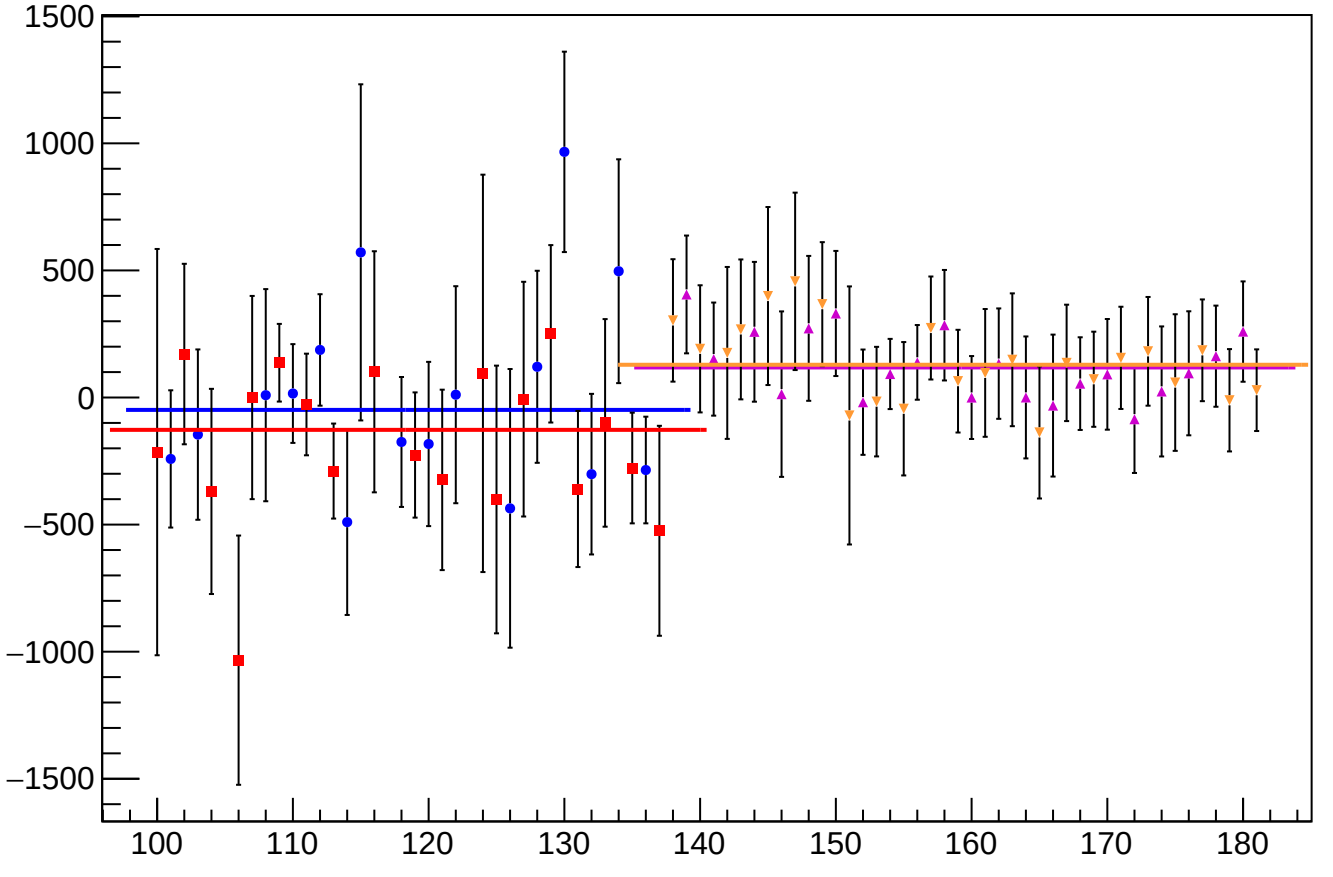
Right: 137.883+/-0.027 $\chi^2$/NDF: 2985912.1/34

In: 178.547+/-0.027 $\chi^2$/NDF:3754053.0/36

Out: 173.010+/-0.025 $\chi^2$/NDF:4425492.1/41

All: 175.627+/-0.018 $\chi^2$/NDF: 8201947.0/78

# asym_bcm_target_mean vs Slug, Sign Corrected




Right In: -48.749+/-76.592 $\chi^2$/NDF: 15.4/15

Left Out: 128.836+/-48.862 $\chi^2$/NDF:7.2/22

Right Out: -127.249+/-68.506 $\chi^2$/NDF: 12.9/18

Left In: 118.188+/-45.690 $\chi^2$/NDF:6.9/20

Left: 123.155+/-33.373 $\chi^2$/NDF: 14.1/43

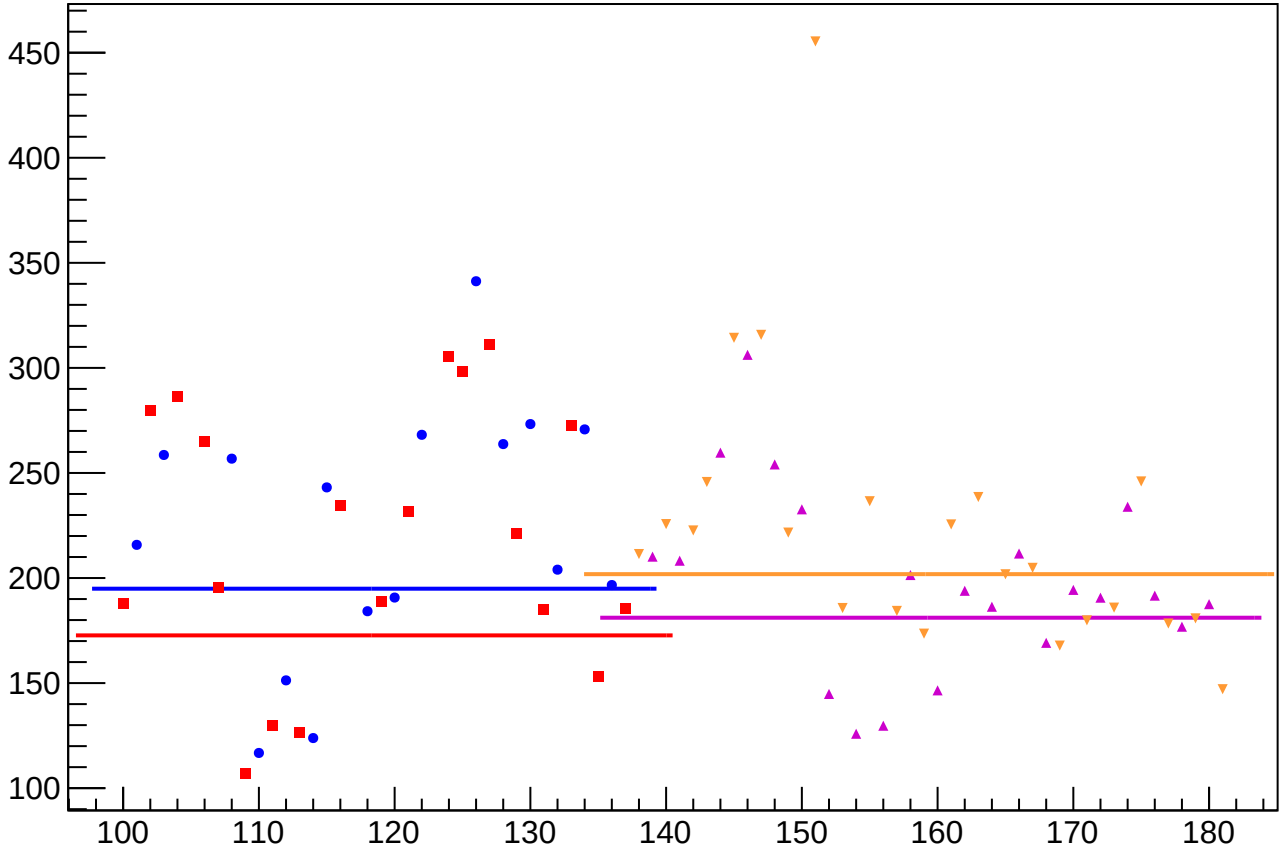
Right: -92.360+/-51.061 $\chi^2$/NDF: 28.9/34

In: 74.374+/-39.238 $\chi^2$/NDF:25.8/36

Out: 42.487+/-39.780 $\chi^2$/NDF:29.3/41

All: 58.649+/-27.935 $\chi^2$/NDF: 55.5/78

# asym_bcm_target_rms vs Slug, Sign Corrected




Right In: 194.923+/-0.054 $\chi^2$/NDF: 1028901.2/15

Left Out: 201.847+/-0.035 $\chi^2$/NDF:1605376.2/22

Right Out: 172.704+/-0.048 $\chi^2$/NDF: 1631350.4/18

Left In: 181.110+/-0.032 $\chi^2$/NDF:1615638.2/20

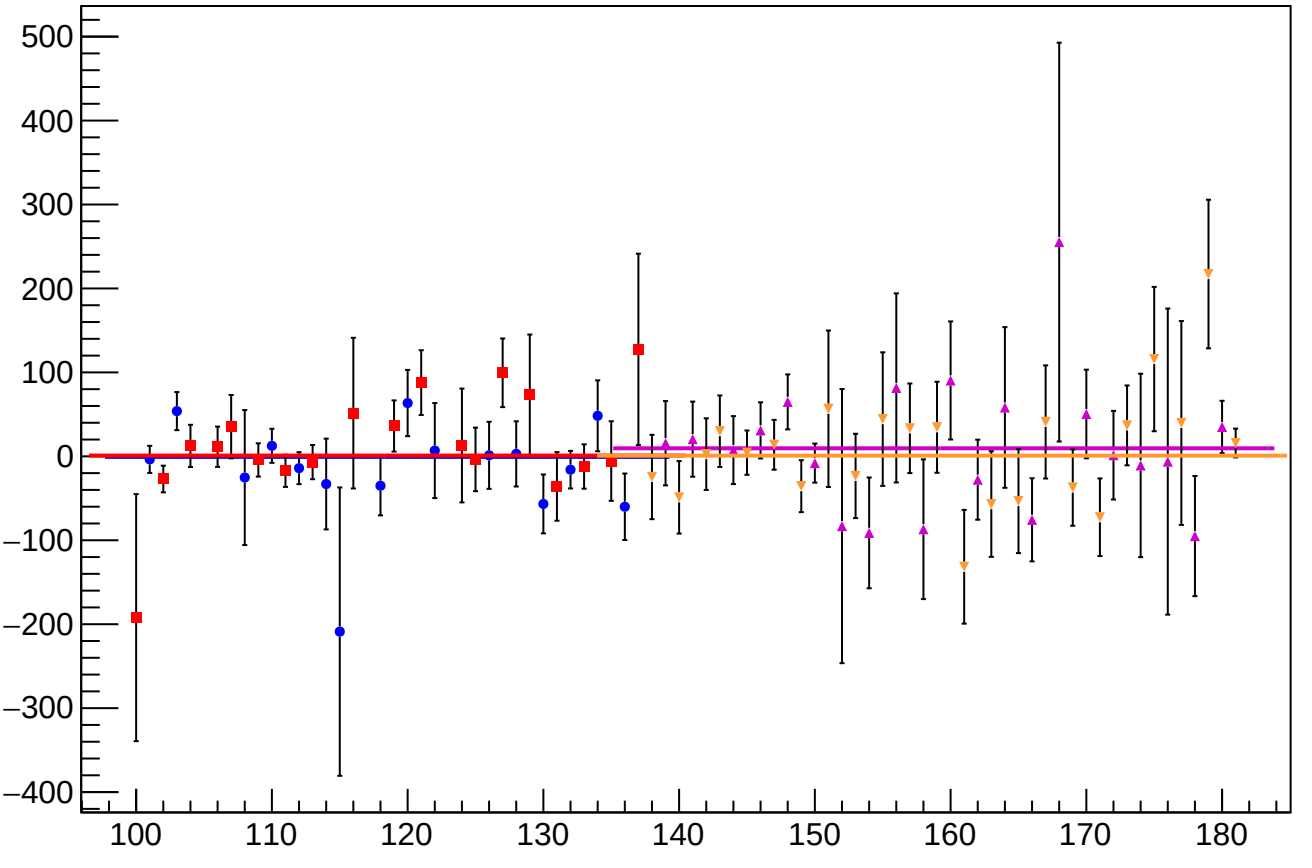
Left: 190.783+/-0.024 $\chi^2$/NDF: 3413200.0/43

Right: 182.579+/-0.036 $\chi^2$/NDF: 2753755.7/34

In: 184.735+/-0.028 $\chi^2$/NDF:2692515.2/36

Out: 192.020+/-0.028 $\chi^2$/NDF:3476622.0/41

All: 188.328+/-0.020 $\chi^2$/NDF: 6203134.2/78




Right In: -0.624+/-7.340 $\chi^2$/NDF: 18.9/15

Left Out: 0.833+/-8.748 $\chi^2$/NDF:23.5/22

Right Out: 0.938+/-6.767 $\chi^2$/NDF: 23.1/18

Left In: 9.562+/-10.594 $\chi^2$/NDF:18.0/20

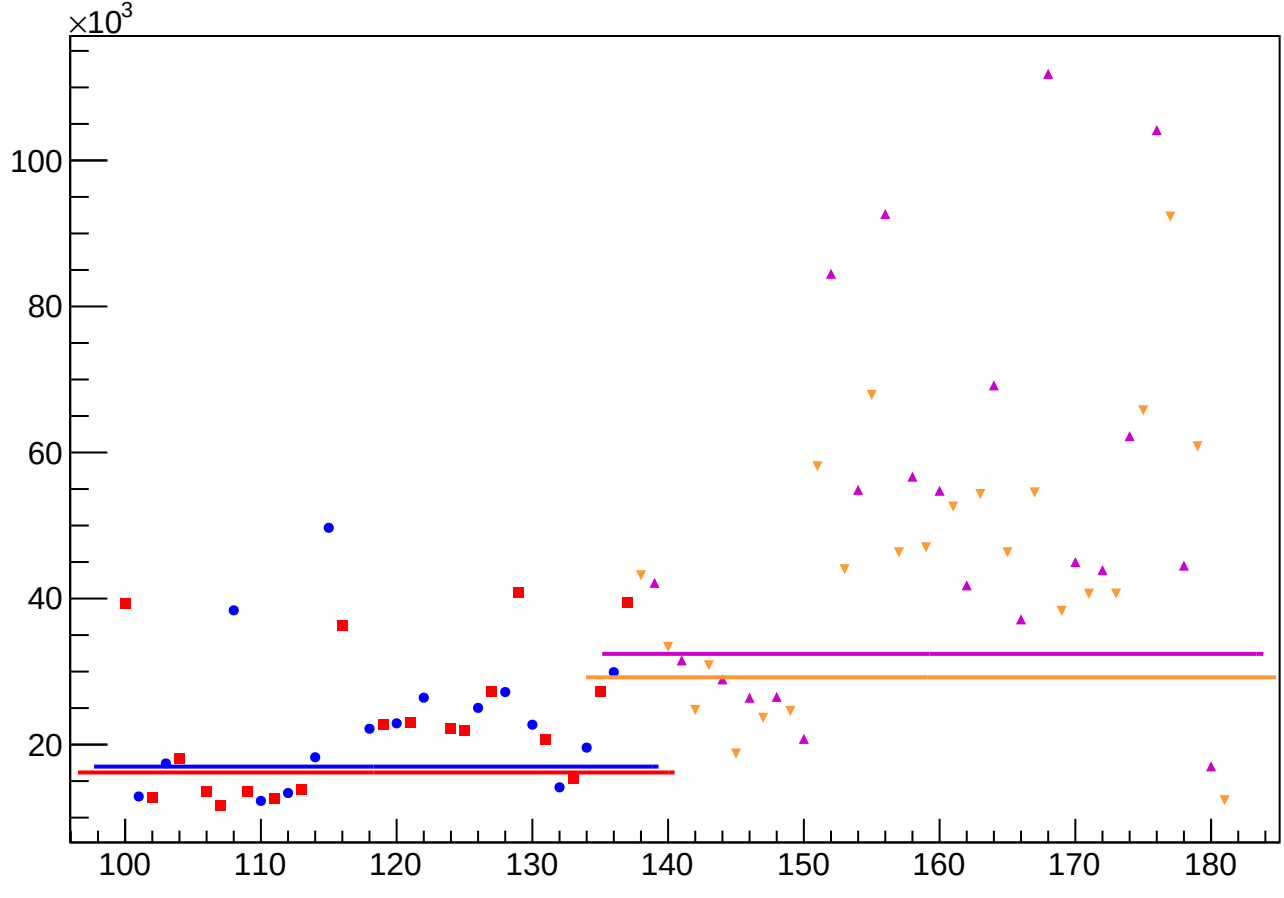
Left: 4.372+/-6.746 $\chi^2$/NDF: 41.9/43

Right: 0.220+/-4.975 $\chi^2$/NDF: 42.0/34

In: 2.680+/-6.034 $\chi^2$/NDF:37.5/36

Out: 0.899+/-5.353 $\chi^2$/NDF:46.5/41

All: 1.683+/-4.004 $\chi^2$/NDF: 84.1/78




Right In: 16986.402+/-5.190 $\chi^2$/NDF: 1194096.1/15

Left Out: 29215.486+/-6.186 $\chi^2$/NDF:6269750.1/22

Right Out: 16181.928+/-4.785 $\chi^2$/NDF: 1251495.8/18

Left In: 32426.270+/-7.492 $\chi^2$/NDF:3925934.9/20

Left: 30517.178+/-4.770 $\chi^2$/NDF: 10304903.6/43

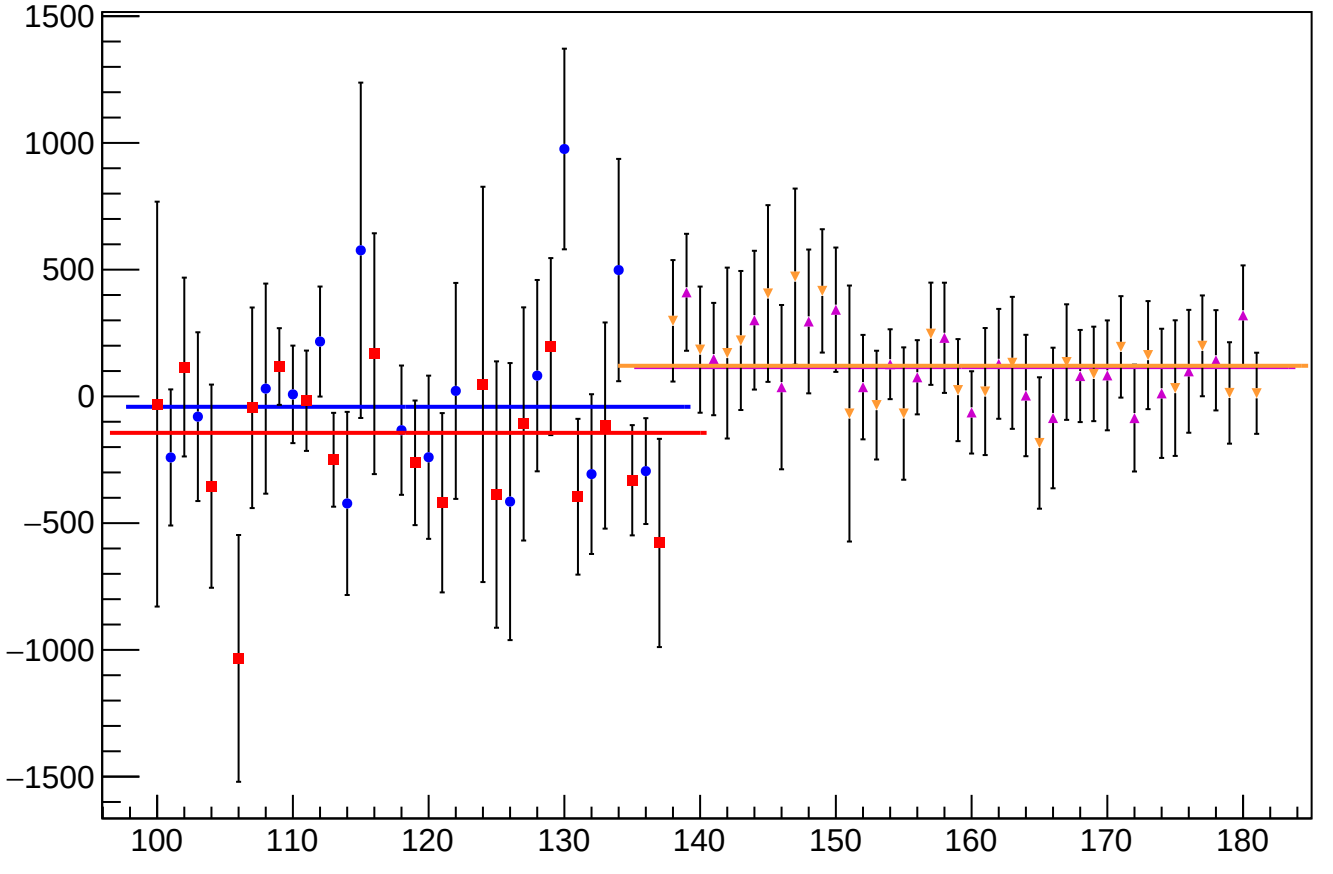
Right: 16551.529+/-3.518 $\chi^2$/NDF: 2458578.1/34

In: 21994.030+/-4.266 $\chi^2$/NDF:7990020.0/36

Out: 21061.014+/-3.785 $\chi^2$/NDF:10298631.1/41

All: 21471.914+/-2.831 $\chi^2$/NDF: 18315413.6/

# asym_bcm_an_ds_mean vs Slug, Sign Corrected




Right In: -41.048+/-76.156 $\chi^2$/NDF: 15.5/15

Left Out: 120.813+/-48.652 $\chi^2$/NDF:8.5/22

Right Out: -143.821+/-68.080 $\chi^2$/NDF: 13.0/18

Left In: 115.487+/-45.520 $\chi^2$/NDF:8.1/20

Left: 117.973+/-33.240 $\chi^2$/NDF: 16.7/43

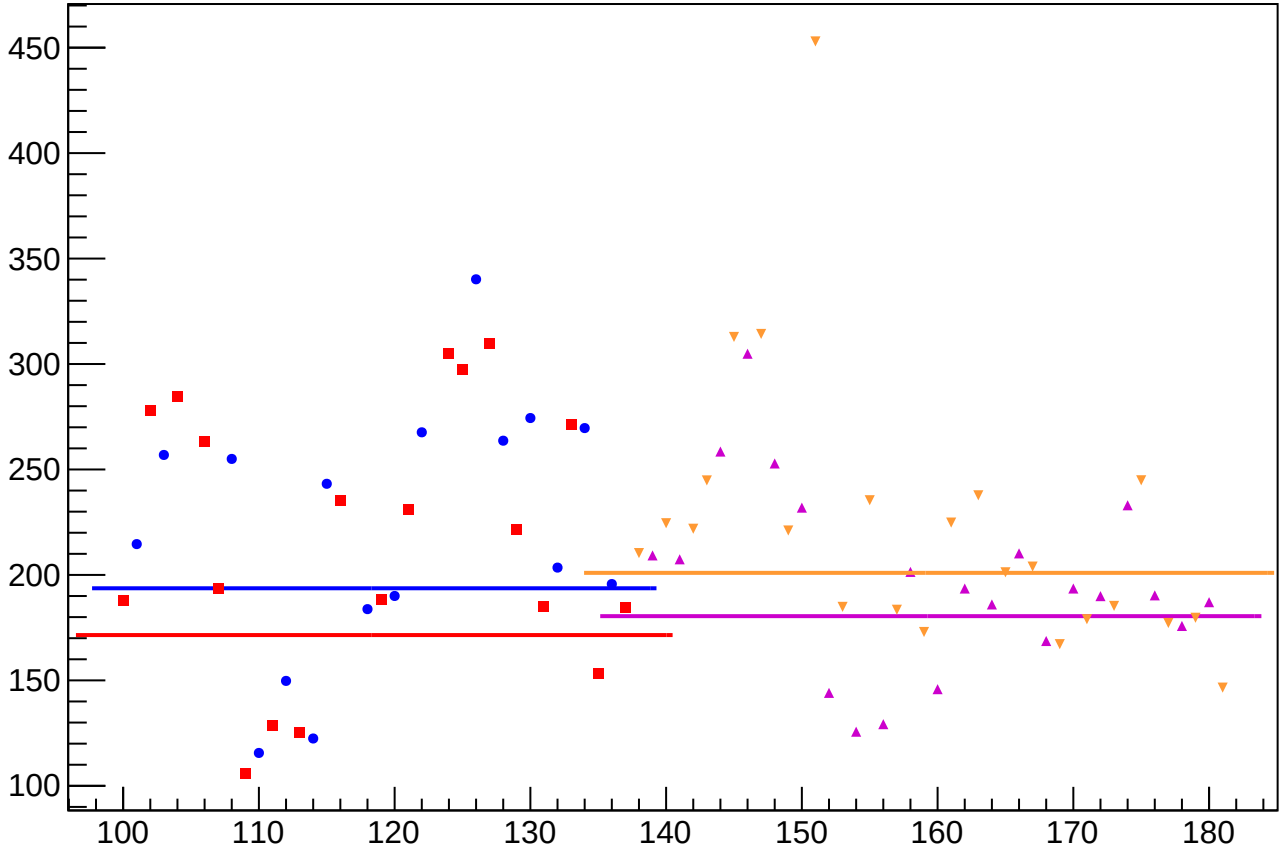
Right: -98.171+/-50.756 $\chi^2$/NDF: 29.5/34

In: 74.283+/-39.073 $\chi^2$/NDF:26.7/36

Out: 31.354+/-39.583 $\chi^2$/NDF:31.5/41

All: 53.097+/-27.807 $\chi^2$/NDF: 58.8/78

# asym_bcm_an_ds_rms vs Slug, Sign Corrected




Right In: 193.670+/-0.054 $\chi^2$/NDF: 1049772.0/15

Left Out: 200.984+/-0.034 $\chi^2$/NDF:1605104.9/22

Right Out: 171.484+/-0.048 $\chi^2$/NDF: 1652989.7/18

Left In: 180.453+/-0.032 $\chi^2$/NDF:1612049.6/20

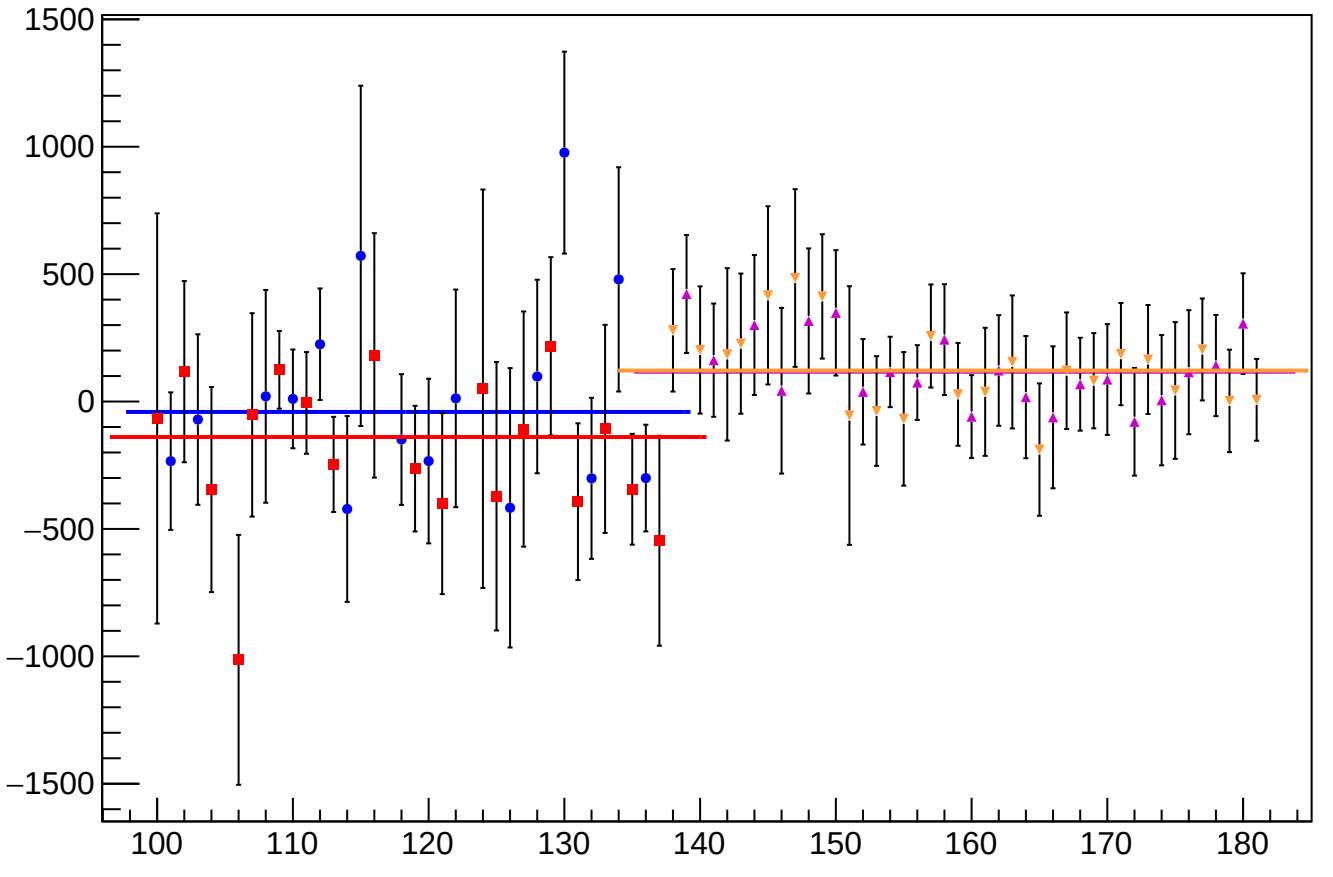
Left: 190.037+/-0.024 $\chi^2$/NDF: 3407067.9/43

Right: 181.339+/-0.036 $\chi^2$/NDF: 2797109.1/34

In: 183.932+/-0.028 $\chi^2$/NDF:2706206.6/36

Out: 191.011+/-0.028 $\chi^2$/NDF:3506674.4/41

All: 187.426+/-0.020 $\chi^2$/NDF: 6245282.0/78




Right In: -40.798+/-76.579 $\chi^2$/NDF: 15.4/15

Left Out: 121.501+/-48.815 $\chi^2$/NDF:8.7/22

Right Out: -139.292+/-68.459 $\chi^2$/NDF: 12.9/18

Left In: 117.063+/-45.647 $\chi^2$/NDF:8.1/20

Left: 119.133+/-33.341 $\chi^2$/NDF: 16.7/43

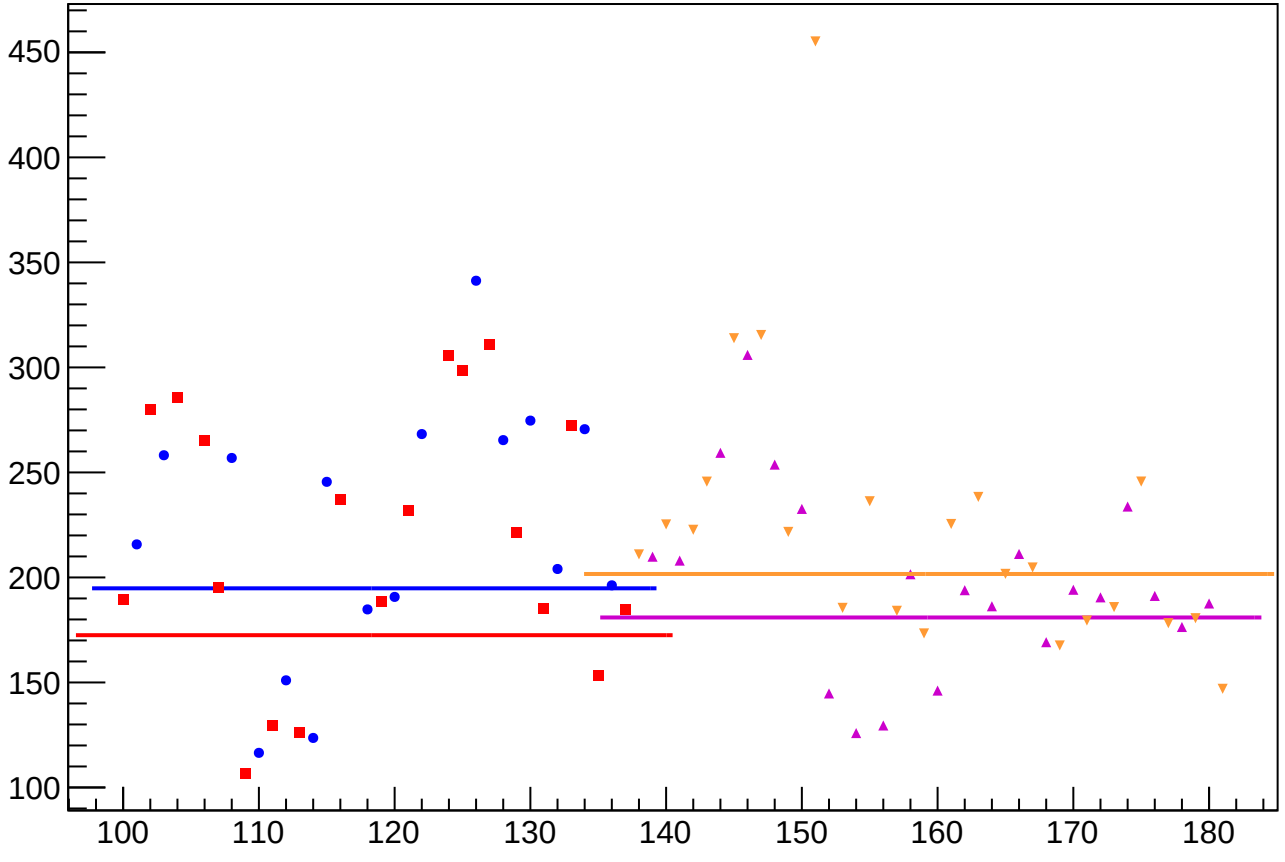
Right: -95.542+/-51.038 $\chi^2$/NDF: 29.2/34

In: 75.678+/-39.210 $\chi^2$/NDF:26.6/36

Out: 33.598+/-39.745 $\chi^2$/NDF:31.2/41

All: 54.923+/-27.913 $\chi^2$/NDF: 58.3/78

# asym_bcm_an_ds3_rms vs Slug, Sign Corrected




Right In: 194.819+/-0.054 $\chi^2$/NDF: 1039096.7/15

Left Out: 201.647+/-0.035 $\chi^2$/NDF:1606380.8/22

Right Out: 172.507+/-0.048 $\chi^2$/NDF: 1642059.1/18

Left In: 180.939+/-0.032 $\chi^2$/NDF:1616025.4/20

Left: 190.599+/-0.024 $\chi^2$/NDF: 3414420.5/43

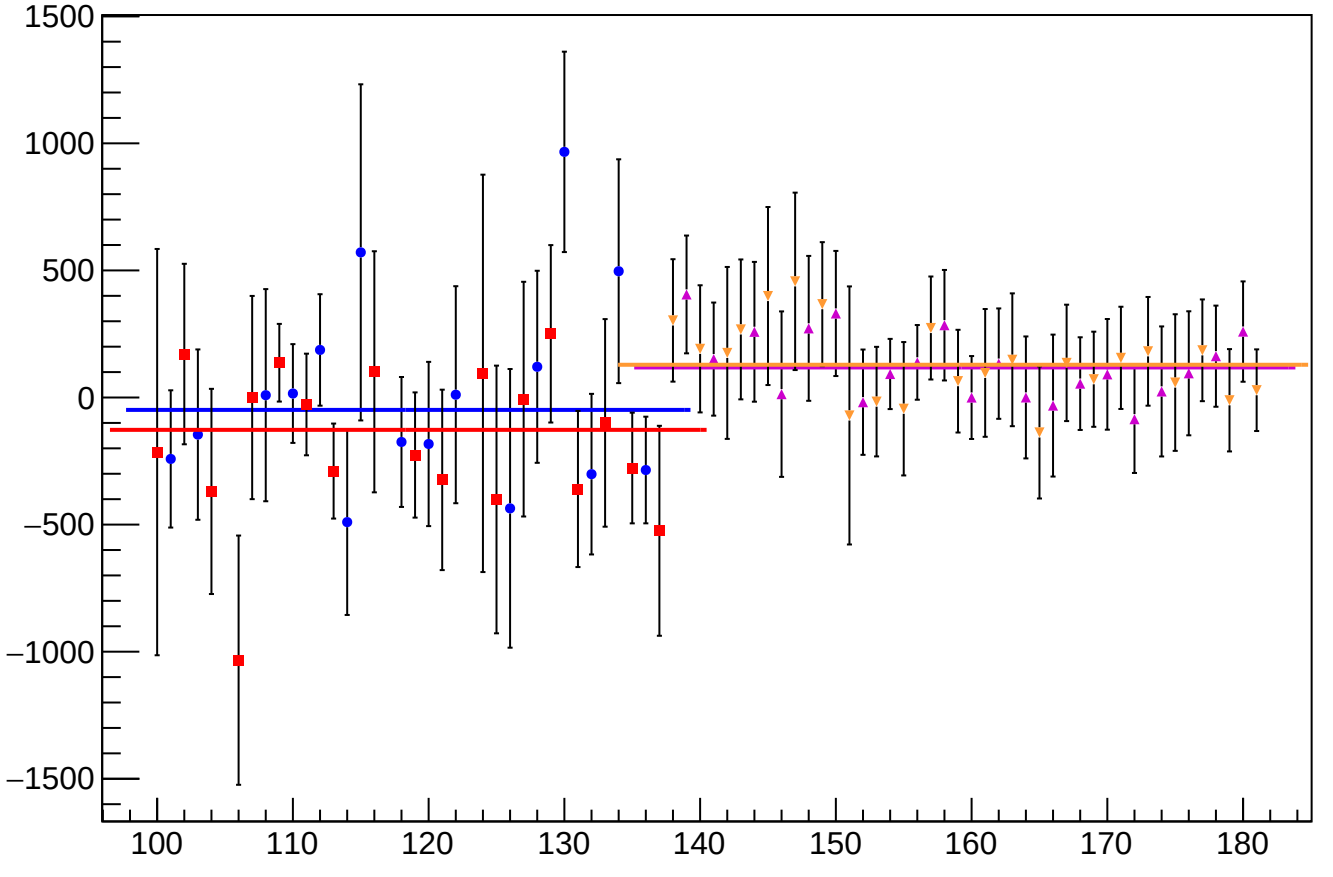
Right: 182.418+/-0.036 $\chi^2$/NDF: 2775527.6/34

In: 184.578+/-0.028 $\chi^2$/NDF:2703604.4/36

Out: 191.825+/-0.028 $\chi^2$/NDF:3488667.6/41

All: 188.152+/-0.020 $\chi^2$/NDF: 6225969.3/78

# asym_bcm_an_us_mean vs Slug, Sign Corrected




Right In: -48.749+/-76.592 $\chi^2$/NDF: 15.4/15

Left Out: 128.836+/-48.862 $\chi^2$/NDF:7.2/22

Right Out: -127.249+/-68.506 $\chi^2$/NDF: 12.9/18

Left In: 118.188+/-45.690 $\chi^2$/NDF:6.9/20

Left: 123.155+/-33.373 $\chi^2$/NDF: 14.1/43

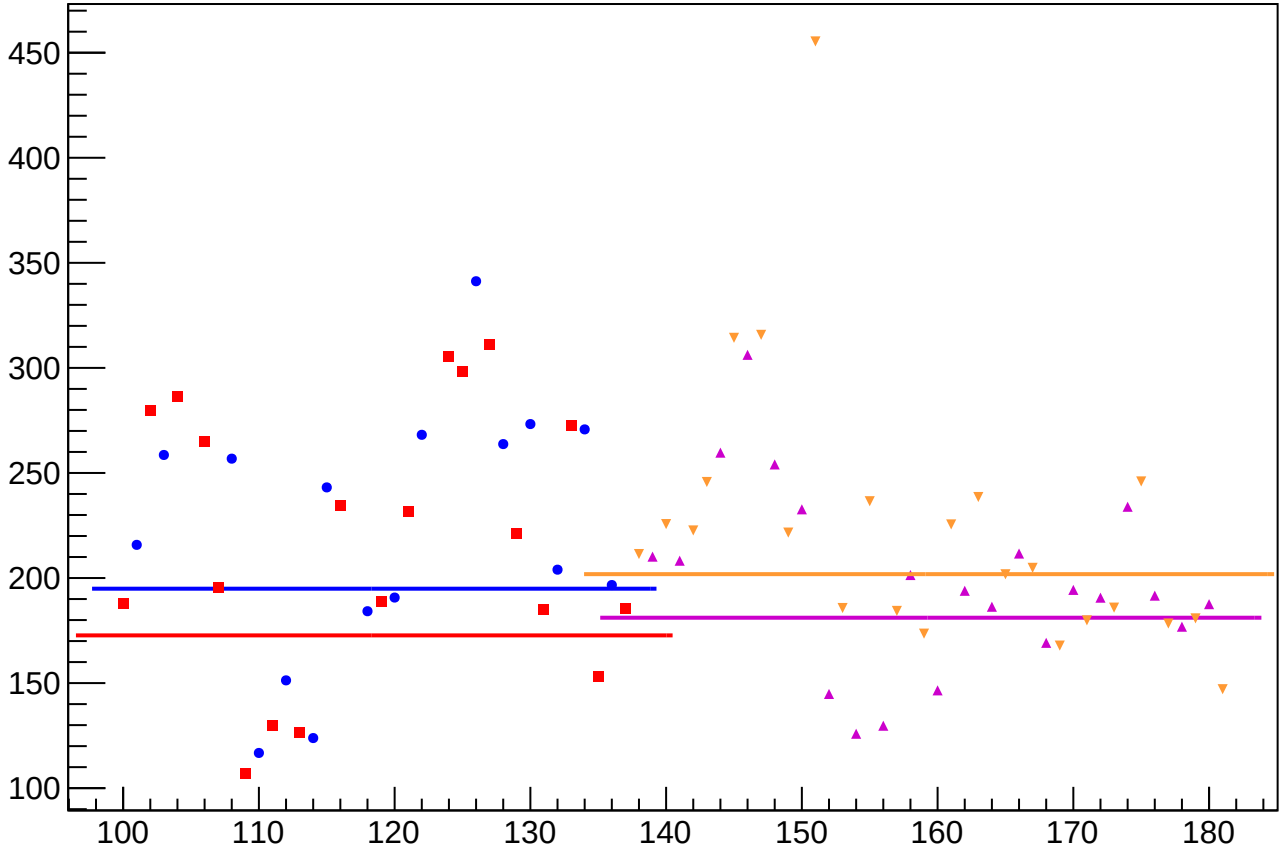
Right: -92.360+/-51.061 $\chi^2$/NDF: 28.9/34

In: 74.374+/-39.238 $\chi^2$/NDF:25.8/36

Out: 42.487+/-39.780 $\chi^2$/NDF:29.3/41

All: 58.649+/-27.935 $\chi^2$/NDF: 55.5/78

# asym_bcm_an_us_rms vs Slug, Sign Corrected




Right In: 194.923+/-0.054 $\chi^2$/NDF: 1028901.2/15

Left Out: 201.847+/-0.035 $\chi^2$/NDF:1605376.2/22

Right Out: 172.704+/-0.048 $\chi^2$/NDF: 1631350.4/18

Left In: 181.110+/-0.032 $\chi^2$/NDF:1615638.2/20

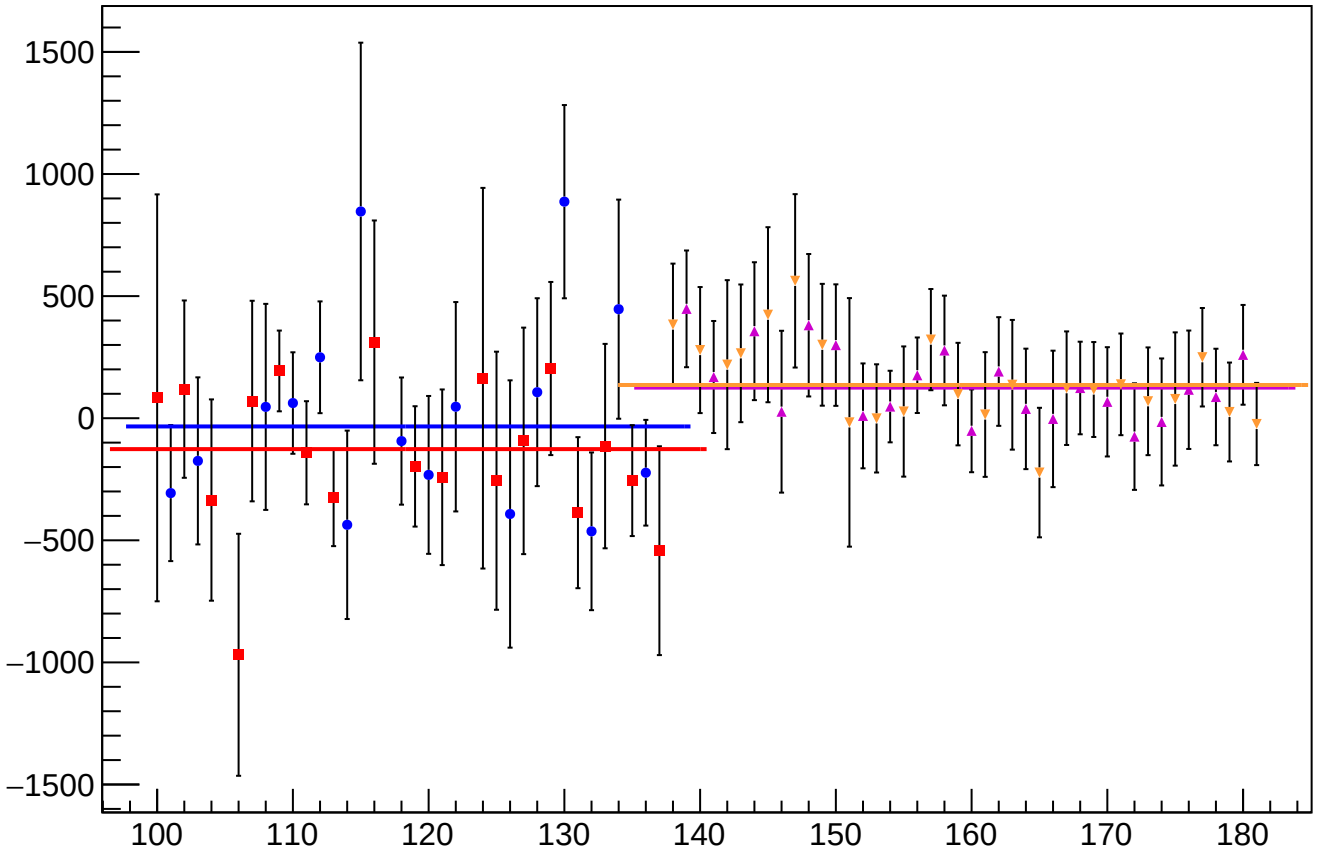
Left: 190.783+/-0.024 $\chi^2$/NDF: 3413200.0/43

Right: 182.579+/-0.036 $\chi^2$/NDF: 2753755.7/34

In: 184.735+/-0.028 $\chi^2$/NDF:2692515.2/36

Out: 192.020+/-0.028 $\chi^2$/NDF:3476622.0/41

All: 188.328+/-0.020 $\chi^2$/NDF: 6203134.2/78




Right In: -33.731+/-78.996 $\chi^2$/NDF: 15.7/15

Left Out: 136.034+/-50.120 $\chi^2$/NDF:9.3/22

Right Out: -126.563+/-71.309 $\chi^2$/NDF: 12.7/18

Left In: 125.288+/-47.122 $\chi^2$/NDF:8.2/20

Left: 130.330+/-34.331 $\chi^2$/NDF: 17.5/43

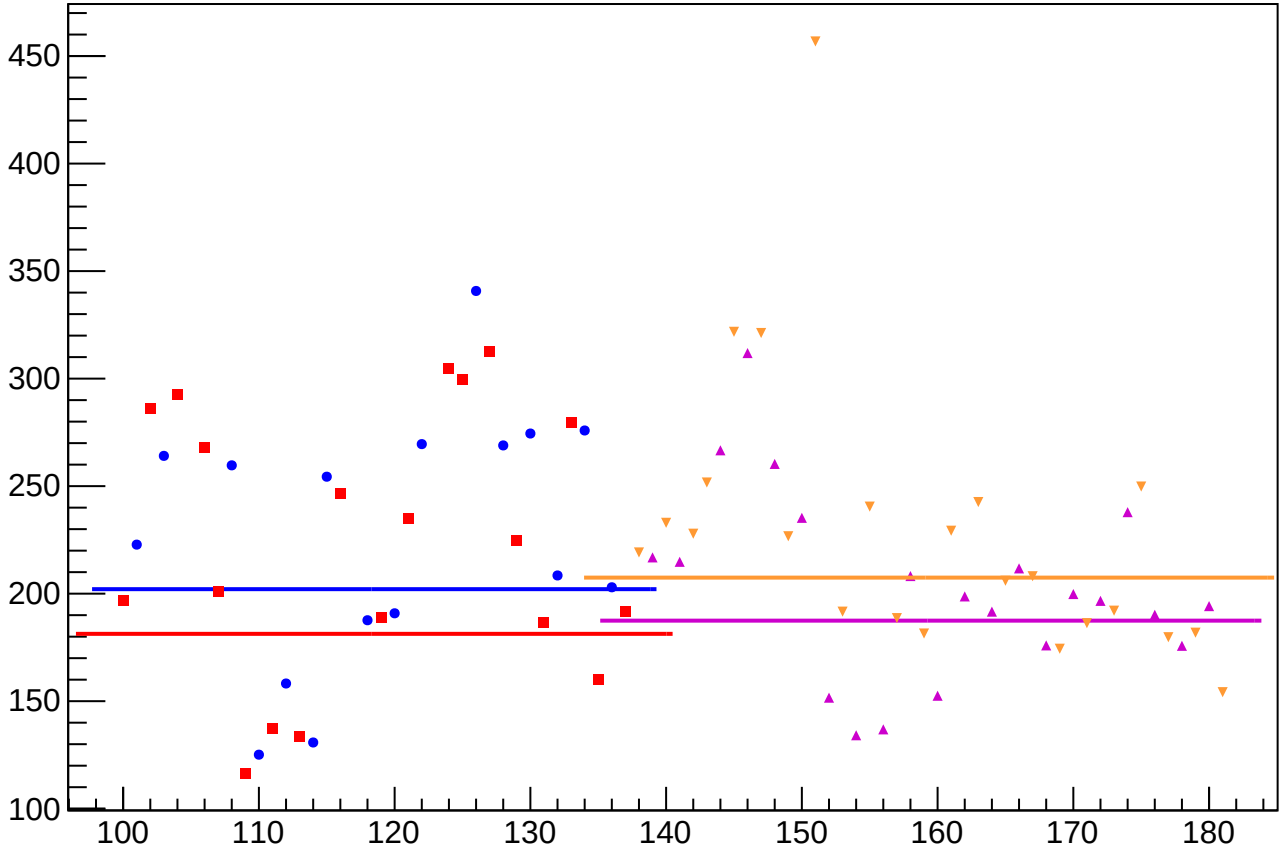
Right: -84.882+/-52.933 $\chi^2$/NDF: 29.2/34

In: 83.555+/-40.469 $\chi^2$/NDF:26.9/36

Out: 49.204+/-41.005 $\chi^2$/NDF:31.0/41

All: 66.605+/-28.803 $\chi^2$/NDF: 58.3/78

# asym_bcm_dg_us_rms vs Slug, Sign Corrected




Right In: 202.090+/-0.056 $\chi^2$/NDF: 910259.2/15

Left Out: 207.463+/-0.035 $\chi^2$/NDF:1525085.8/22

Right Out: 181.312+/-0.050 $\chi^2$/NDF: 1440989.4/18

Left In: 187.451+/-0.033 $\chi^2$/NDF:1455335.2/20

Left: 196.840+/-0.024 $\chi^2$/NDF: 3149677.3/43

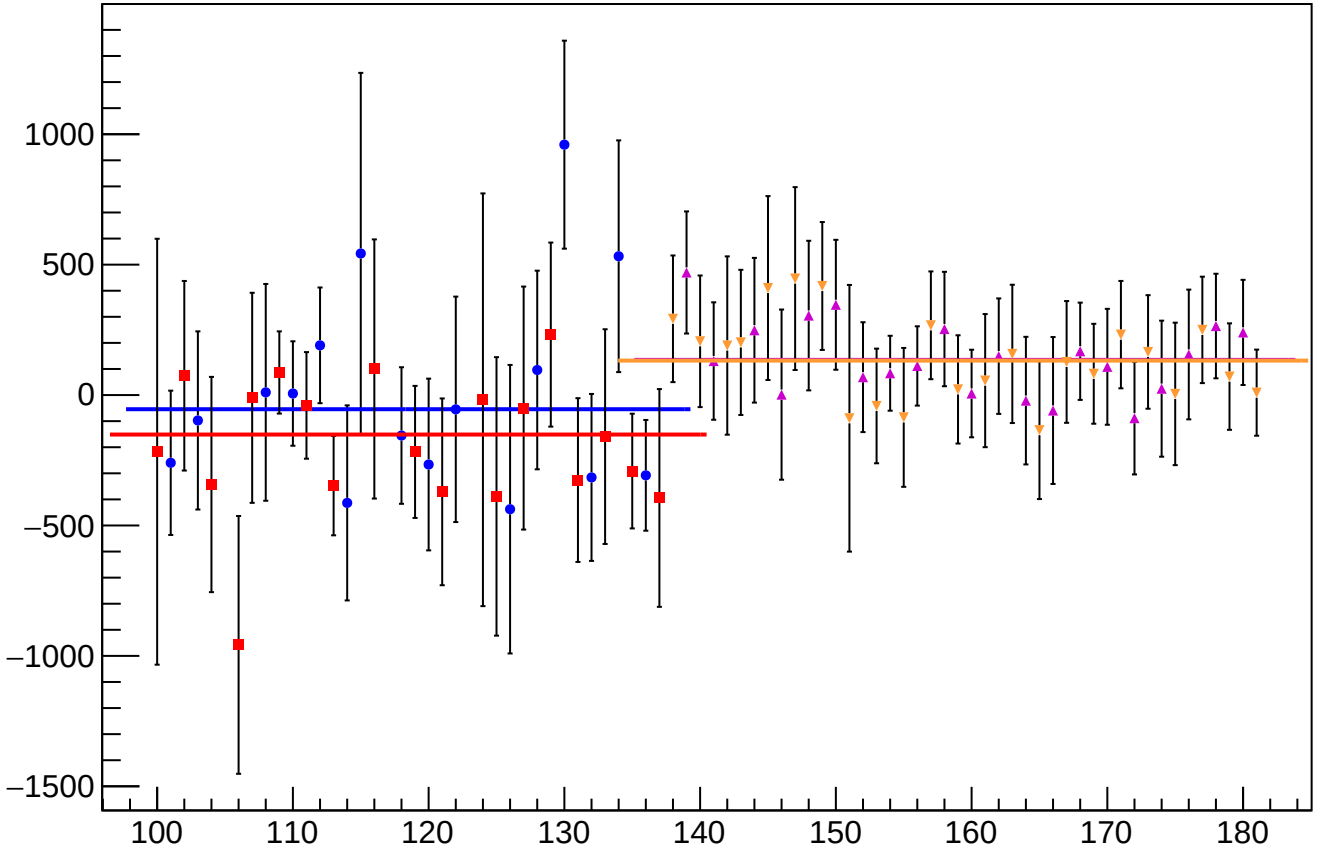
Right: 190.641+/-0.037 $\chi^2$/NDF: 2427488.6/34

In: 191.293+/-0.029 $\chi^2$/NDF:2416255.2/36

Out: 198.816+/-0.029 $\chi^2$/NDF:3146112.3/41

All: 195.005+/-0.020 $\chi^2$/NDF: 5596474.4/78

# asym_bcm_dg_ds_mean vs Slug, Sign Corrected




Right In: -54.254+/-77.946 $\chi^2$/NDF: 15.1/15

Left Out: 132.134+/-49.715 $\chi^2$/NDF:8.2/22

Right Out: -151.358+/-69.902 $\chi^2$/NDF: 10.2/18

Left In: 134.893+/-46.632 $\chi^2$/NDF:7.5/20

Left: 133.601+/-34.012 $\chi^2$/NDF: 15.7/43

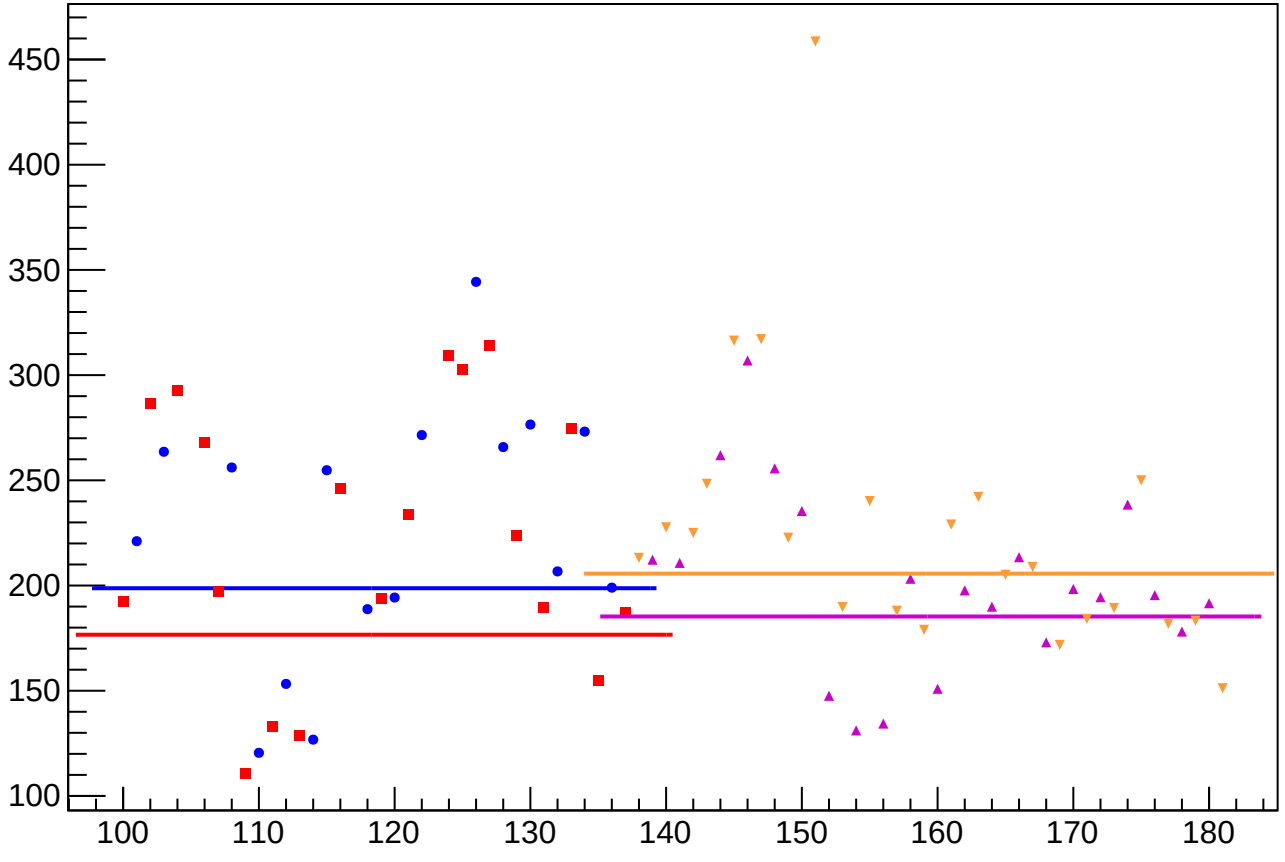
Right: -108.074+/-52.040 $\chi^2$/NDF: 26.2/34

In: 85.037+/-40.018 $\chi^2$/NDF:26.9/36

Out: 36.907+/-40.513 $\chi^2$/NDF:29.4/41

All: 61.268+/-28.470 $\chi^2$/NDF: 57.0/78

# asym_bcm_dg_ds_rms vs Slug, Sign Corrected




Right In: 198.718+/-0.055 $\chi^2$/NDF: 994068.9/15

Left Out: 205.670+/-0.035 $\chi^2$/NDF:1533086.4/22

Right Out: 176.621+/-0.049 $\chi^2$/NDF: 1595710.1/18

Left In: 185.283+/-0.033 $\chi^2$/NDF:1491744.3/20

Left: 194.825+/-0.024 $\chi^2$/NDF: 3203750.2/43

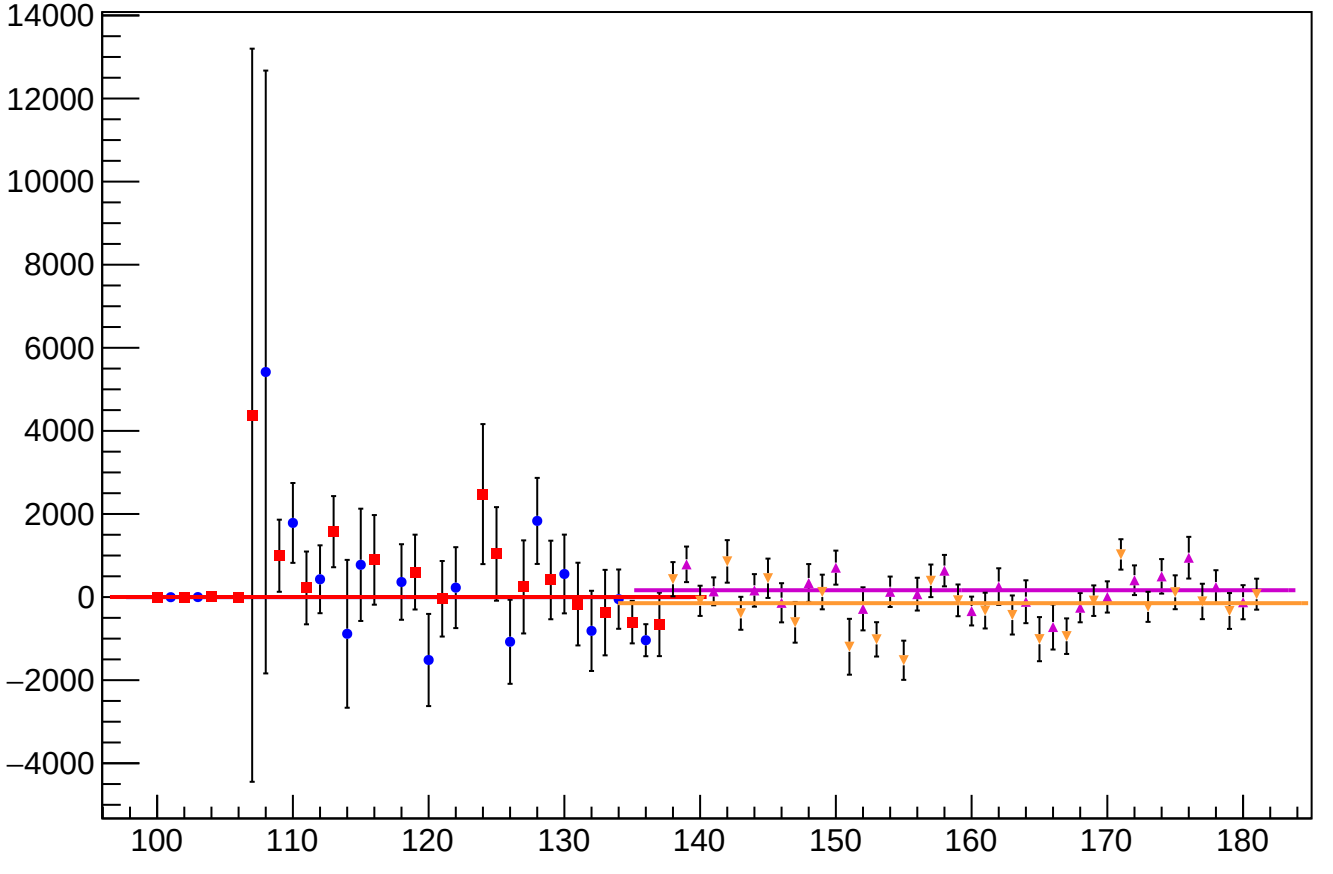
Right: 186.471+/-0.037 $\chi^2$/NDF: 2678866.0/34

In: 188.824+/-0.028 $\chi^2$/NDF:2529572.6/36

Out: 195.913+/-0.029 $\chi^2$/NDF:3358168.4/41

All: 192.325+/-0.020 $\chi^2$/NDF: 5918728.9/78

# asym_cav4bQ_mean vs Slug, Sign Corrected




Right In: -1.239+/-2.171 $\chi^2$/NDF: 19.9/15

Left Out: -146.735+/-87.890 $\chi^2$/NDF:44.4/22

Right Out: 1.377+/-2.022 $\chi^2$/NDF: 16.8/18

Left In: 164.748+/-89.071 $\chi^2$/NDF:17.6/20

Left: 6.926+/-62.561 $\chi^2$/NDF: 68.1/43

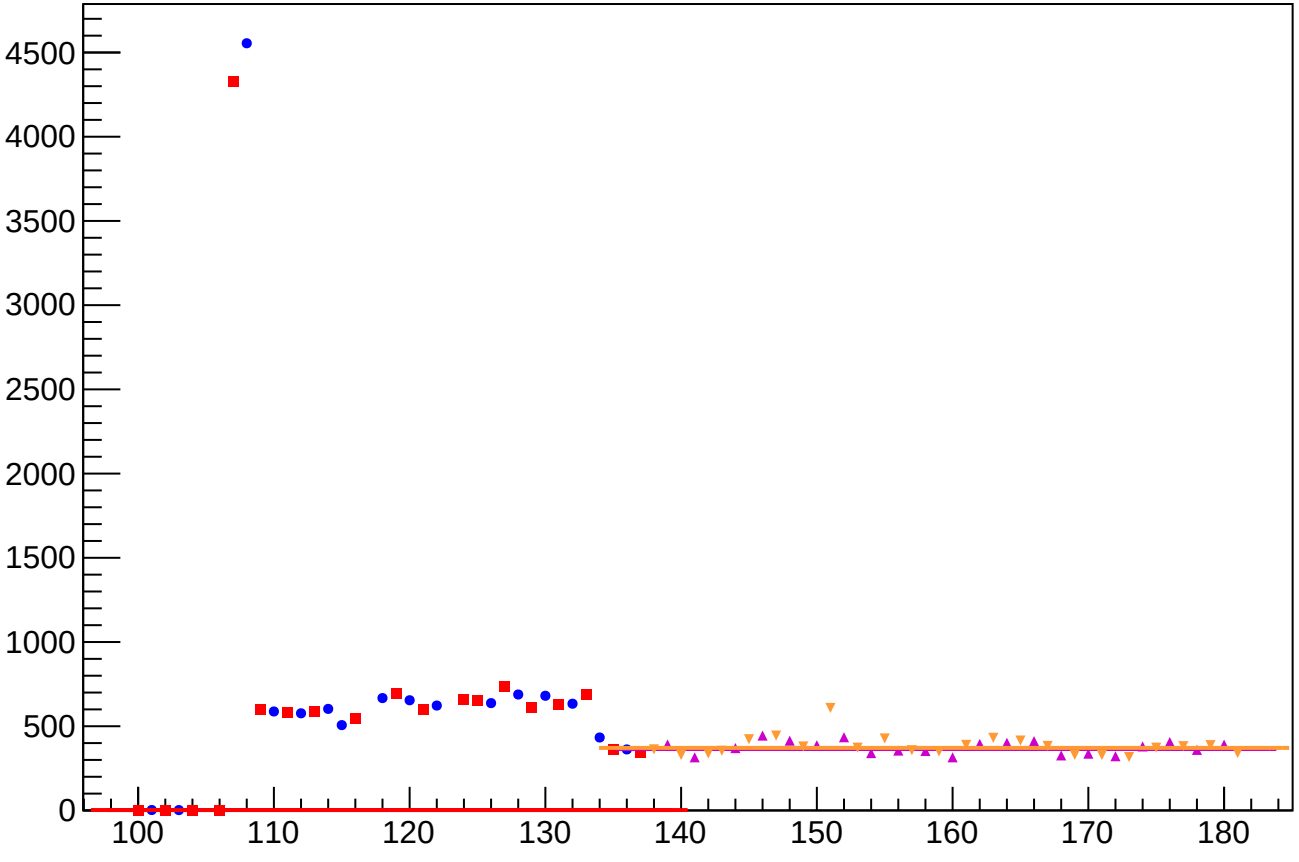
Right: 0.162+/-1.480 $\chi^2$/NDF: 37.5/34

In: -1.140+/-2.170 $\chi^2$/NDF:40.9/36

Out: 1.299+/-2.022 $\chi^2$/NDF:64.0/41

All: 0.166+/-1.479 $\chi^2$/NDF: 105.7/78

# asym_cav4bQ_rms vs Slug, Sign Corrected




Right In: 2.477+/-0.002 $\chi^2$/NDF: 11626192.3/15

Left Out: 371.445+/-0.062 $\chi^2$/NDF:560159.9/22

Right Out: 2.462+/-0.001 $\chi^2$/NDF: 11545445.6/18

Left In: 364.837+/-0.063 $\chi^2$/NDF:349028.2/20

Left: 368.185+/-0.044 $\chi^2$/NDF: 914765.7/43

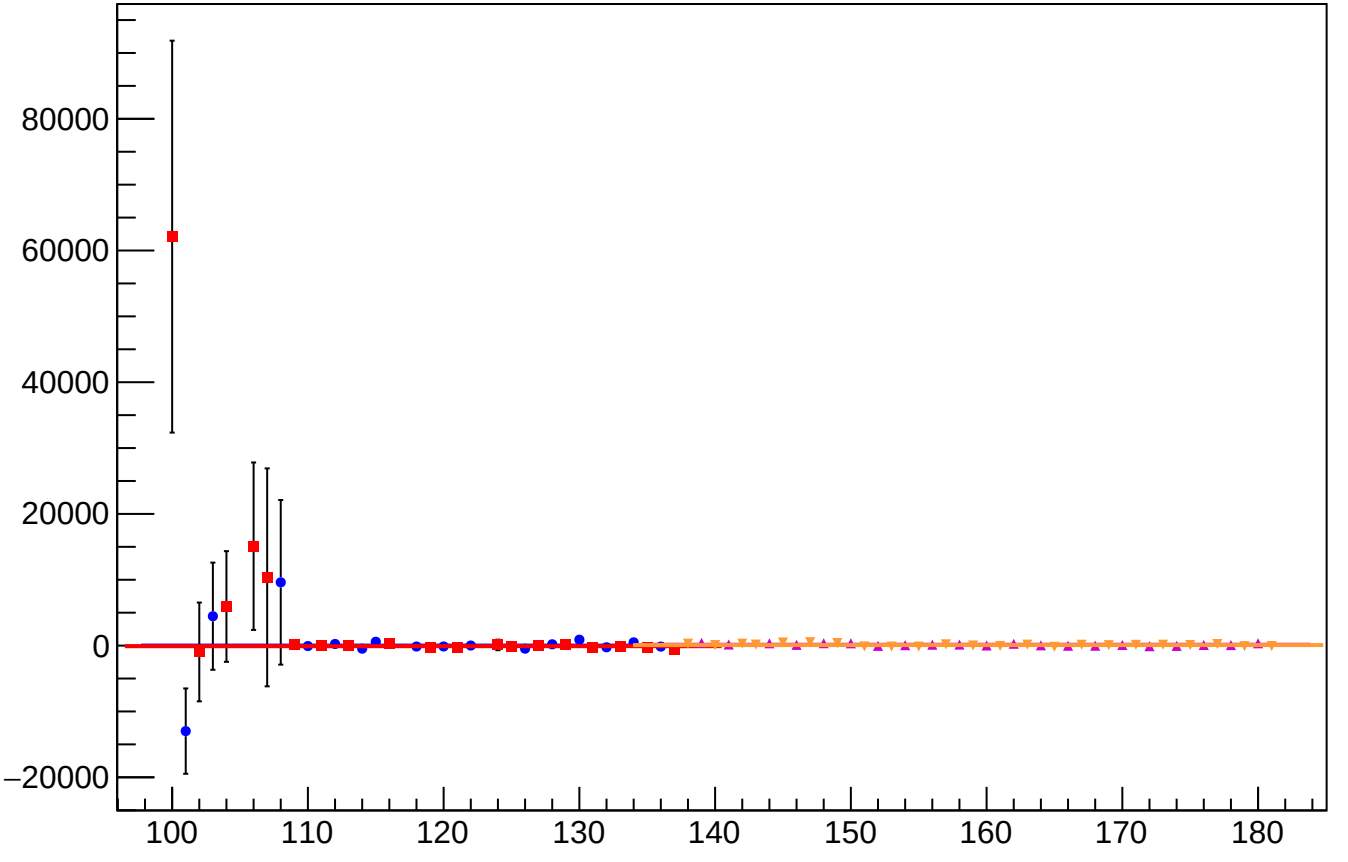
Right: 2.469+/-0.001 $\chi^2$/NDF: 23171686.0/34

In: 2.692+/-0.002 $\chi^2$/NDF:45056138.7/36

Out: 2.657+/-0.001 $\chi^2$/NDF:47337678.8/41

All: 2.673+/-0.001 $\chi^2$/NDF: 92394086.1/78

# asym_cav4cQ_mean vs Slug, Sign Corrected




Right In: 0.575+/-87.823 $\chi^2$/NDF: 16.8/15

Left Out: 80.312+/-50.603 $\chi^2$/NDF:10.8/22

Right Out: -88.089+/-81.605 $\chi^2$/NDF: 14.9/18

Left In: 129.268+/-48.932 $\chi^2$/NDF:8.7/20

Left: 105.612+/-35.176 $\chi^2$/NDF: 20.0/43

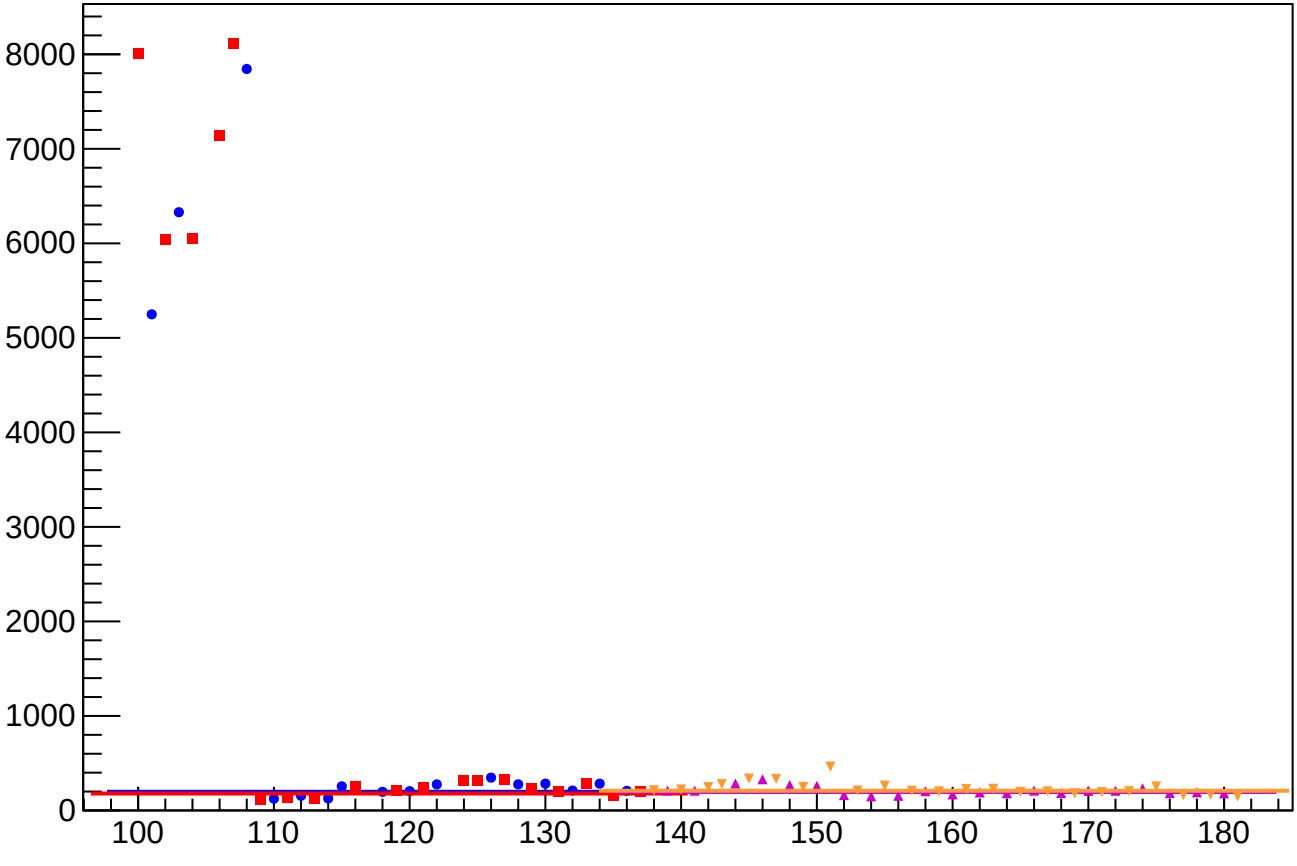
Right: -47.007+/-59.781 $\chi^2$/NDF: 32.3/34

In: 98.781+/-42.745 $\chi^2$/NDF:27.2/36

Out: 33.542+/-43.006 $\chi^2$/NDF:28.8/41

All: 66.360+/-30.317 $\chi^2$/NDF: 57.1/78

# asym_cav4cQ_rms vs Slug, Sign Corrected




Right In: 197.620+/-0.062 $\chi^2$/NDF: 3957192.6/15

Left Out: 208.685+/-0.036 $\chi^2$/NDF:1830337.9/22

Right Out: 179.250+/-0.058 $\chi^2$/NDF: 4418422.9/18

Left In: 195.688+/-0.035 $\chi^2$/NDF:1156593.4/20

Left: 201.968+/-0.025 $\chi^2$/NDF: 3055108.0/43

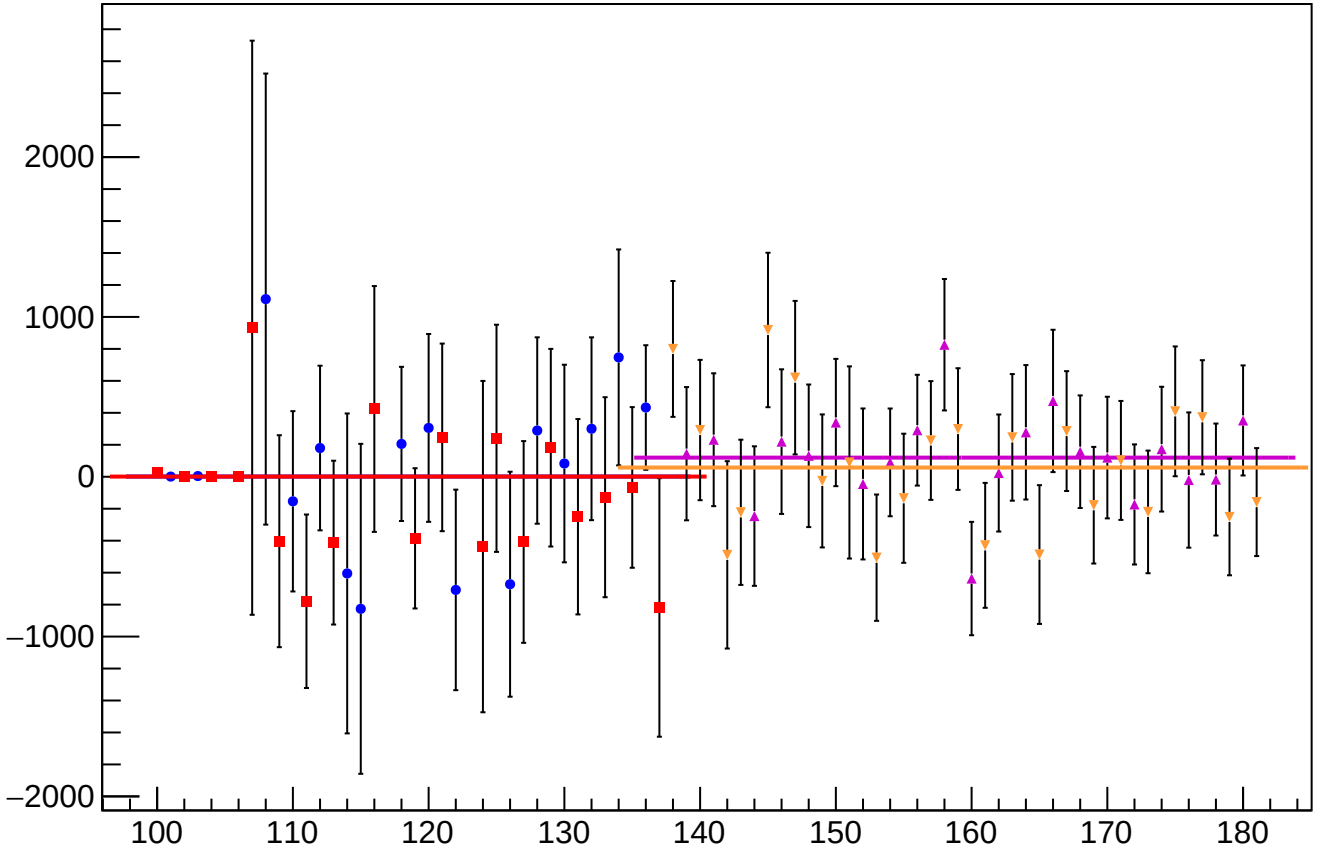
Right: 187.761+/-0.042 $\chi^2$/NDF: 8422574.8/34

In: 196.146+/-0.030 $\chi^2$/NDF:5114524.2/36

Out: 200.510+/-0.030 $\chi^2$/NDF:6436701.0/41

All: 198.314+/-0.021 $\chi^2$/NDF: 11561585.0/78

# asym_cav4dQ_mean vs Slug, Sign Corrected




Right In: 1.456+/-1.660 $\chi^2$/NDF: 7.9/15

Left Out: 57.671+/-84.705 $\chi^2$/NDF:19.4/22

Right Out: 1.094+/-1.528 $\chi^2$/NDF: 9.2/18

Left In: 119.666+/-85.308 $\chi^2$/NDF:11.2/20

Left: 88.449+/-60.108 $\chi^2$/NDF: 30.9/43

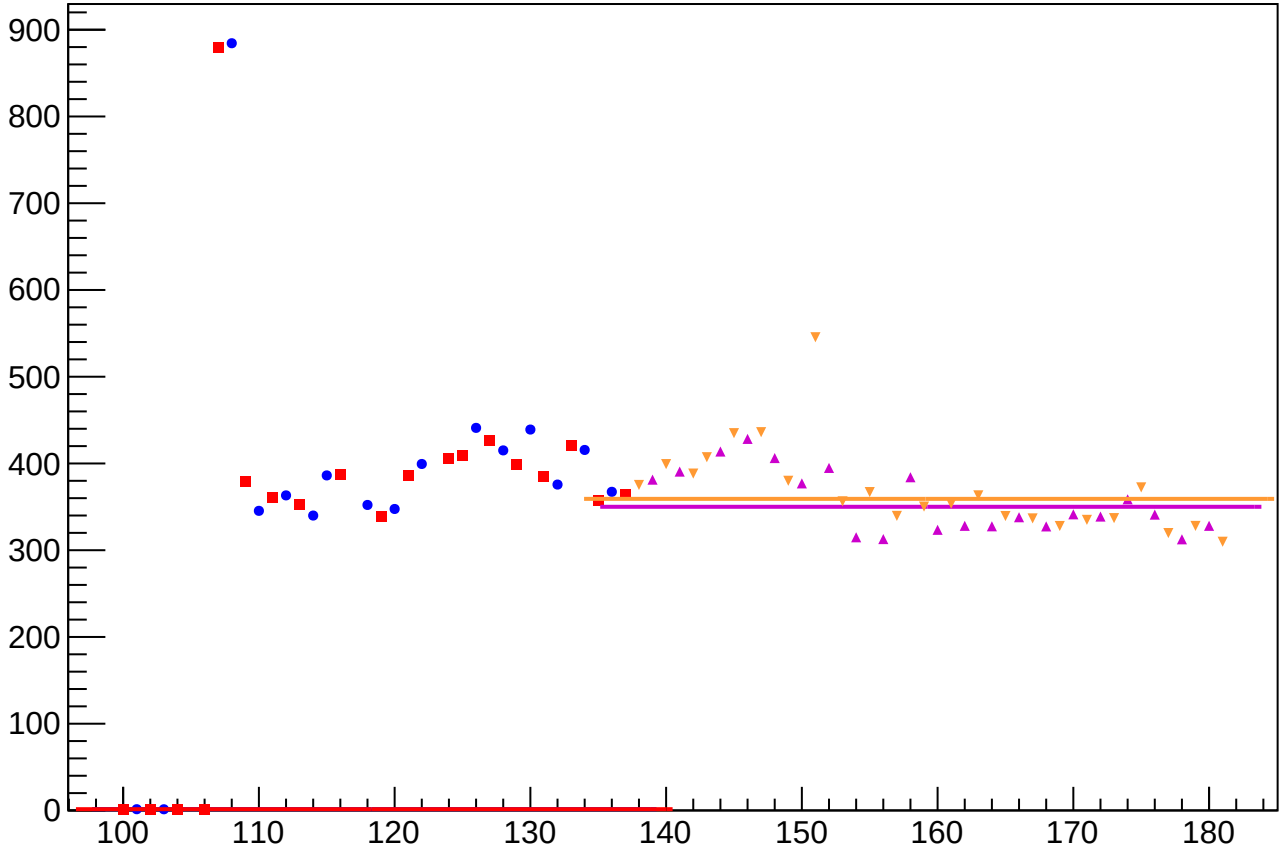
Right: 1.260+/-1.124 $\chi^2$/NDF: 17.1/34

In: 1.500+/-1.660 $\chi^2$/NDF:21.0/36

Out: 1.112+/-1.528 $\chi^2$/NDF:29.0/41

All: 1.290+/-1.124 $\chi^2$/NDF: 50.0/78

# asym_cav4dQ_rms vs Slug, Sign Corrected




Right In: 1.470+/-0.001 $\chi^2$/NDF: 11735334.0/15

Left Out: 359.200+/-0.060 $\chi^2$/NDF:477556.2/22

Right Out: 1.467+/-0.001 $\chi^2$/NDF: 11270430.6/18

Left In: 350.059+/-0.060 $\chi^2$/NDF:319758.3/20

Left: 354.662+/-0.043 $\chi^2$/NDF: 808877.2/43

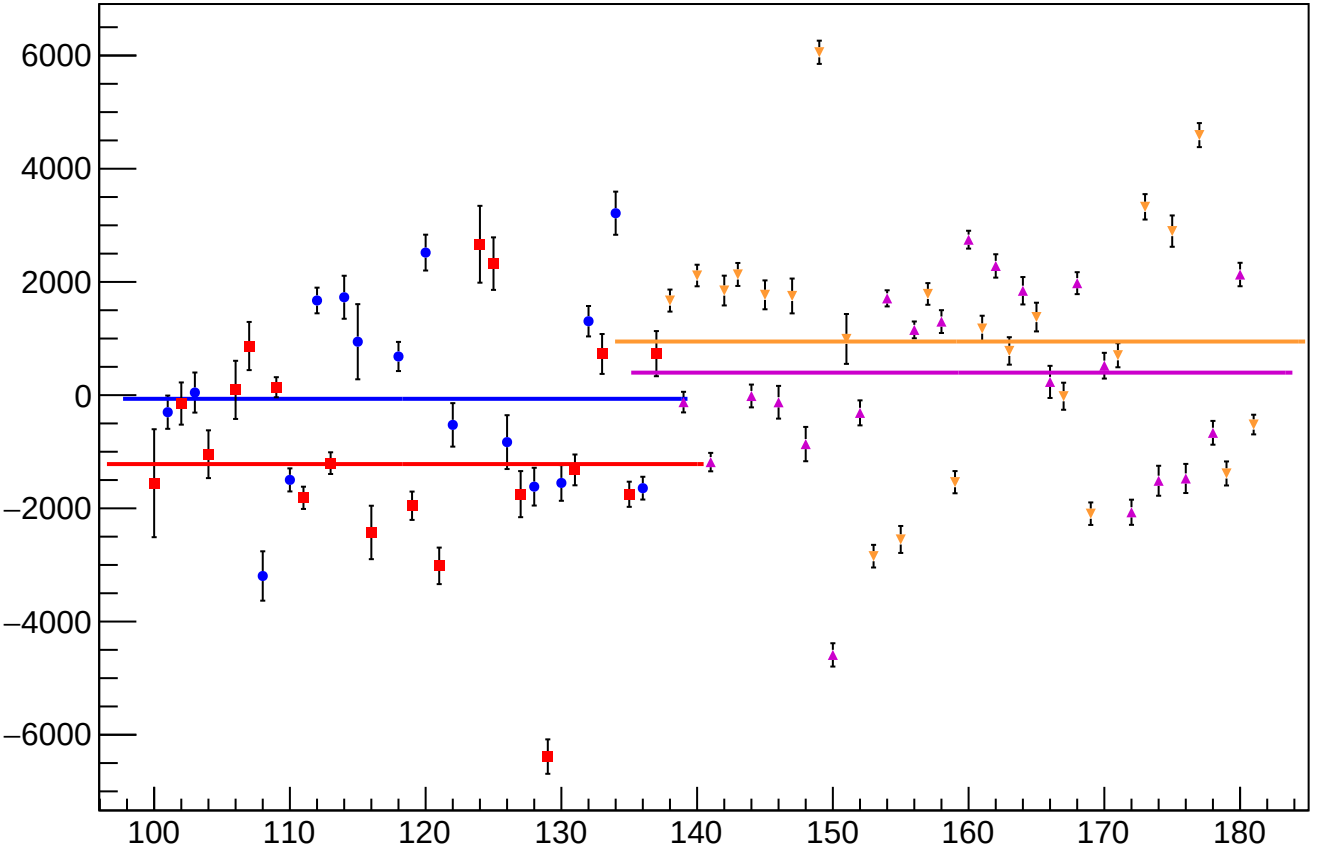
Right: 1.469+/-0.001 $\chi^2$/NDF: 23005768.2/34

In: 1.602+/-0.001 $\chi^2$/NDF:45436966.8/36

Out: 1.583+/-0.001 $\chi^2$/NDF:47408530.1/41

All: 1.592+/-0.001 $\chi^2$/NDF: 92845633.9/78

# asym_bcm0l02_mean vs Slug, Sign Corrected




Right In: -64.993+/-74.895 $\chi^2$/NDF: 469.5/15

Left Out: 947.223+/-46.097 $\chi^2$/NDF:2393.8/22

Right Out: -1217.846+/-69.022 $\chi^2$/NDF: 594.6/18

Left In: 397.524+/-44.142 $\chi^2$/NDF:1585.7/20

Left: 660.468+/-31.882 $\chi^2$/NDF: 4053.6/43

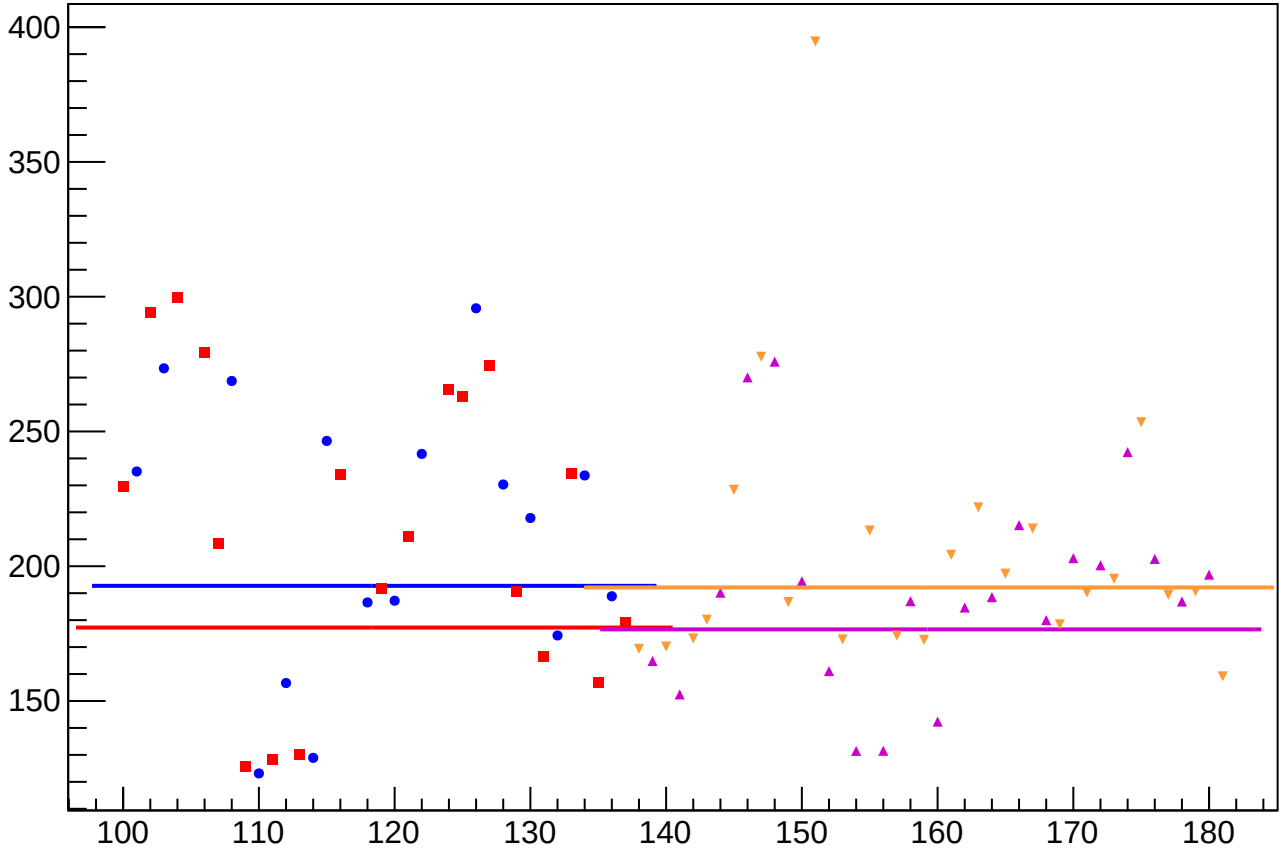
Right: -688.385+/-50.755 $\chi^2$/NDF: 1192.2/34

In: 278.280+/-38.028 $\chi^2$/NDF:2083.5/36

Out: 279.396+/-38.334 $\chi^2$/NDF:3668.8/41

All: 278.833+/-26.998 $\chi^2$/NDF: 5752.3/78

# asym_bcm0l02_rms vs Slug, Sign Corrected




Right In: 192.719+/-0.053 $\chi^2$/NDF: 759146.3/15

Left Out: 192.123+/-0.033 $\chi^2$/NDF:995694.6/22

Right Out: 177.251+/-0.049 $\chi^2$/NDF: 1226180.2/18

Left In: 176.568+/-0.031 $\chi^2$/NDF:1257335.3/20

Left: 184.008+/-0.023 $\chi^2$/NDF: 2371826.3/43

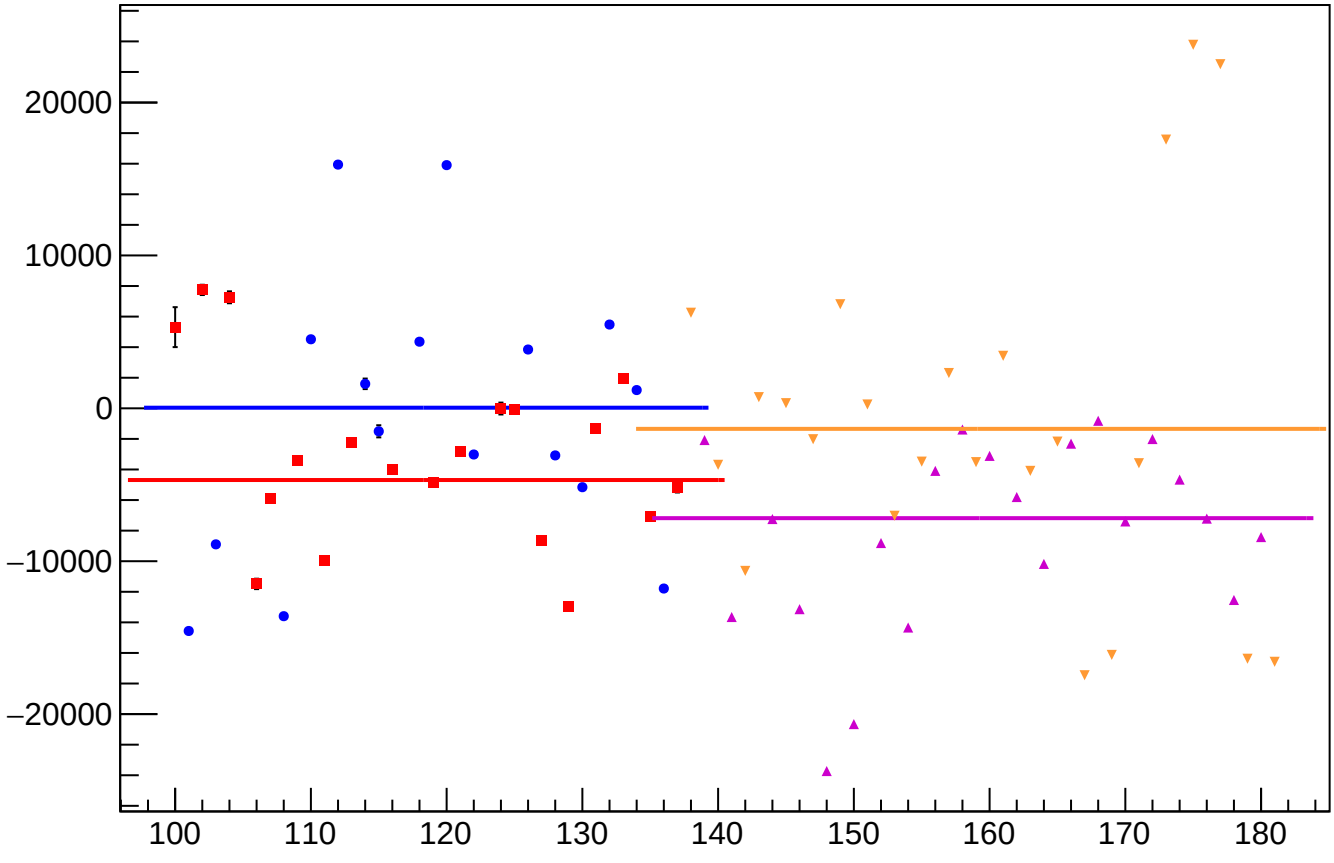
Right: 184.355+/-0.036 $\chi^2$/NDF: 2031455.3/34

In: 180.732+/-0.027 $\chi^2$/NDF:2085513.0/36

Out: 187.536+/-0.027 $\chi^2$/NDF:2286082.5/41

All: 184.107+/-0.019 $\chi^2$/NDF: 4403348.4/78

# asym_bpm0i02WS_mean vs Slug, Sign Corrected




Right In: 40.915+/-54.199 $\chi^2$/NDF: 30786.3/15

Left Out: -1342.963+/-41.556 $\chi^2$/NDF:61953.5/22

Right Out: -4689.710+/-52.095 $\chi^2$/NDF: 7795.7/18

Left In: -7184.077+/-43.337 $\chi^2$/NDF:18197.5/20

Left: -4141.050+/-29.994 $\chi^2$/NDF: 89615.4/43

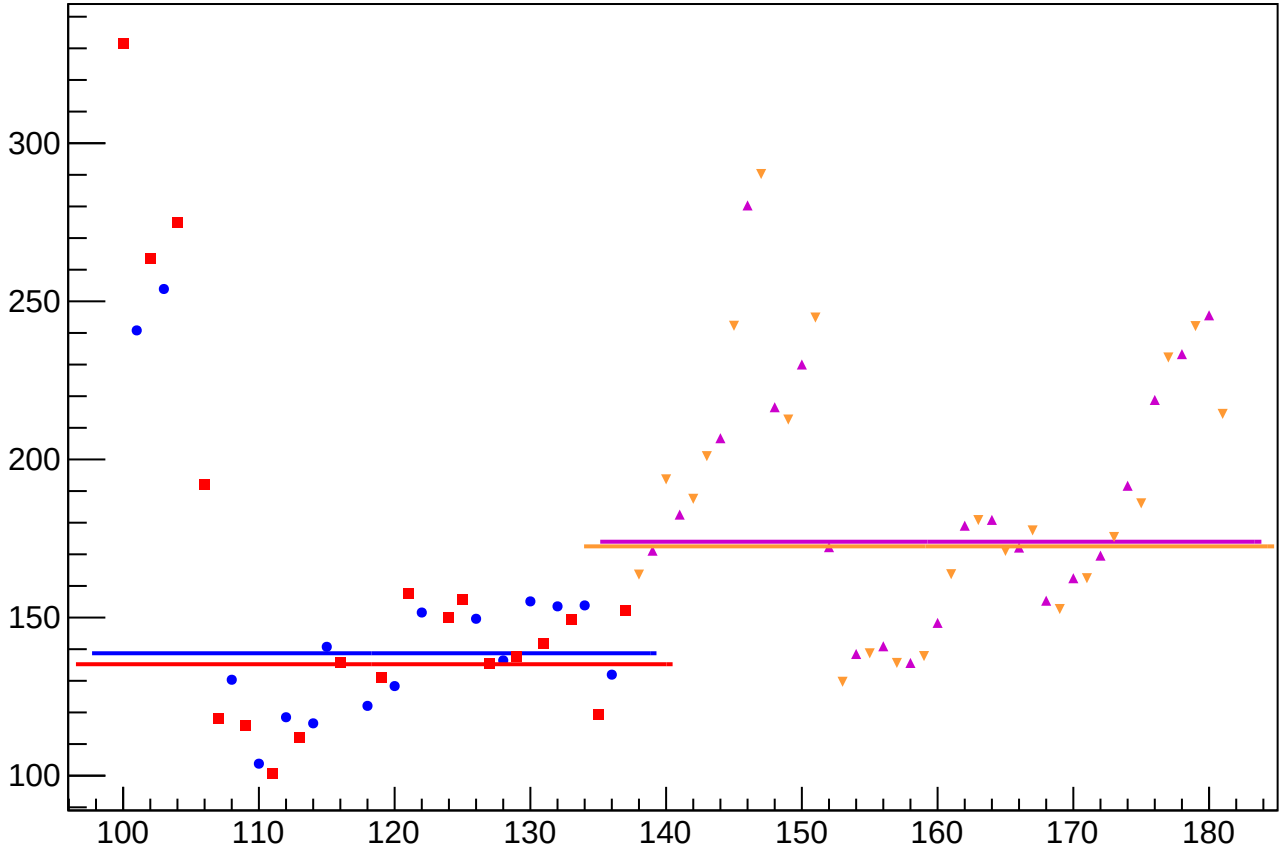
Right: -2417.983+/-37.558 $\chi^2$/NDF: 42541.9/34

In: -4366.331+/-33.847 $\chi^2$/NDF:59823.8/36

Out: -2644.419+/-32.486 $\chi^2$/NDF:72271.5/41

All: -3470.066+/-23.438 $\chi^2$/NDF: 133442.3/7

# asym_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 138.712+/-0.038 $\chi^2$/NDF: 657791.3/15

Left Out: 172.515+/-0.029 $\chi^2$/NDF:1508361.9/22

Right Out: 135.245+/-0.037 $\chi^2$/NDF: 890024.8/18

Left In: 173.984+/-0.031 $\chi^2$/NDF:1223691.1/20

Left: 173.218+/-0.021 $\chi^2$/NDF: 2733250.5/43

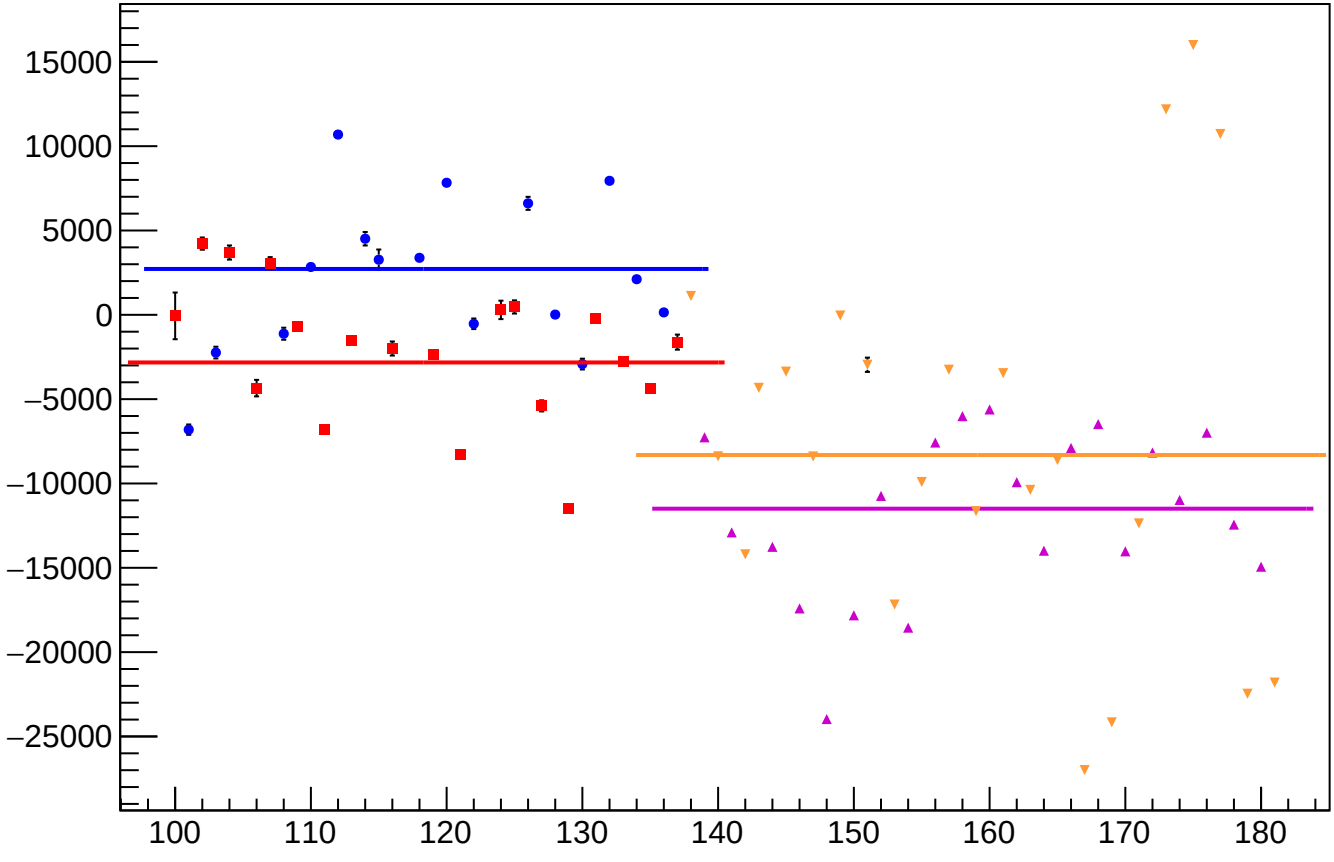
Right: 136.910+/-0.027 $\chi^2$/NDF: 1552069.4/34

In: 160.228+/-0.024 $\chi^2$/NDF:2398183.2/36

Out: 158.022+/-0.023 $\chi^2$/NDF:3023958.2/41

All: 159.079+/-0.017 $\chi^2$/NDF: 5426564.3/78

# asym_bpm0i02aWS_mean vs Slug, Sign Corrected




Right In: 2719.896+/-69.247 $\chi^2$/NDF: 4129.3/15

Left Out: -8312.319+/-47.083 $\chi^2$/NDF:55165.6/22

Right Out: -2823.679+/-64.850 $\chi^2$/NDF: 3062.8/18

Left In: -11494.868+/-45.463 $\chi^2$/NDF:11122.7/20

Left: -9959.282+/-32.705 $\chi^2$/NDF: 68652.8/43

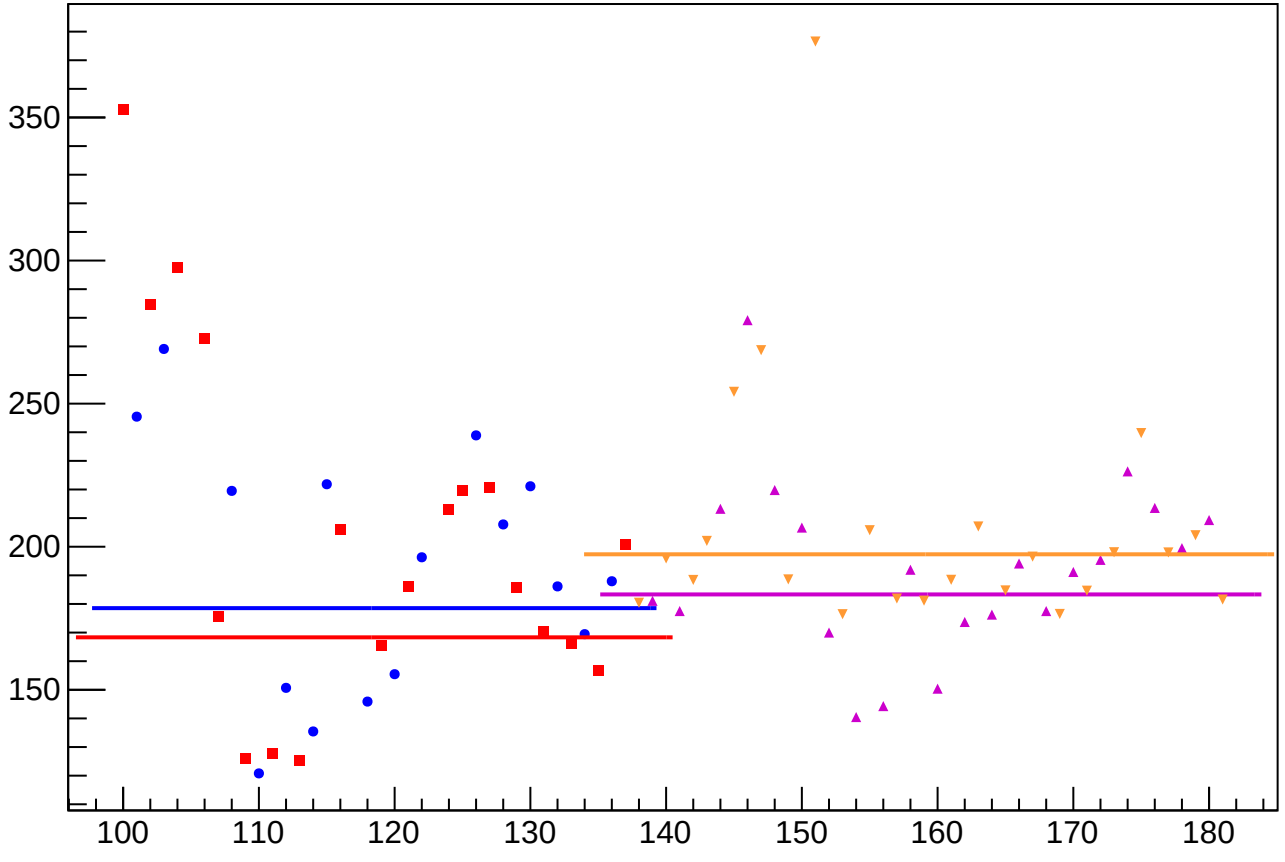
Right: -233.460+/-47.334 $\chi^2$/NDF: 10606.3/34

In: -7213.322+/-38.004 $\chi^2$/NDF:44698.2/36

Out: -6417.818+/-38.100 $\chi^2$/NDF:62919.1/41

All: -6816.573+/-26.907 $\chi^2$/NDF: 107835.8/7

# asym_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 178.541+/-0.049 $\chi^2$/NDF: 674566.0/15

Left Out: 197.355+/-0.033 $\chi^2$/NDF:731687.2/22

Right Out: 168.335+/-0.046 $\chi^2$/NDF: 979485.9/18

Left In: 183.332+/-0.032 $\chi^2$/NDF:822256.1/20

Left: 190.098+/-0.023 $\chi^2$/NDF: 1645755.8/43

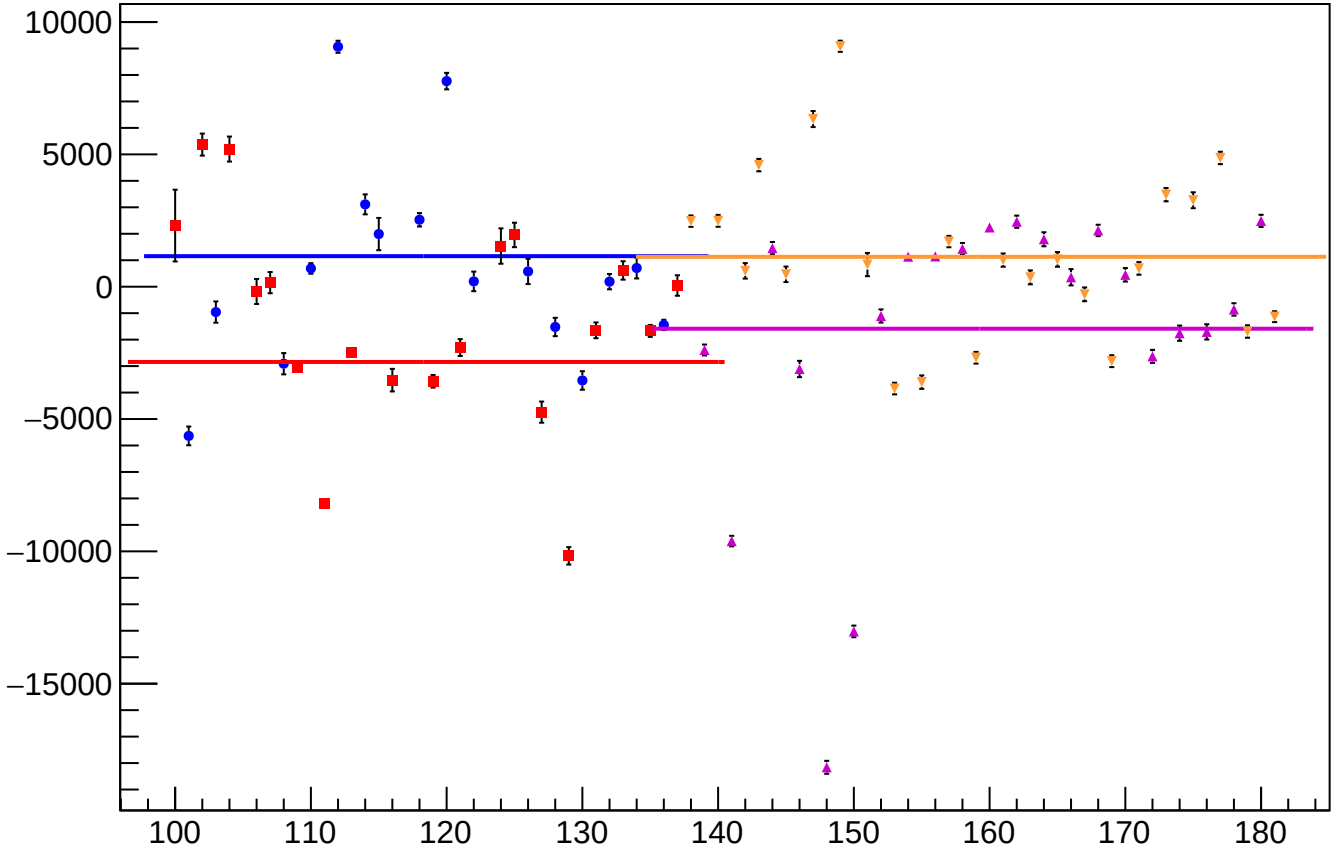
Right: 173.104+/-0.033 $\chi^2$/NDF: 1677198.9/34

In: 181.889+/-0.027 $\chi^2$/NDF:1503511.4/36

Out: 187.338+/-0.027 $\chi^2$/NDF:1973435.4/41

All: 184.606+/-0.019 $\chi^2$/NDF: 3497454.2/78

# asym_bpm0i05WS_mean vs Slug, Sign Corrected




Right In: 1153.823+/-75.957 $\chi^2$/NDF: 2655.3/15

Left Out: 1129.734+/-51.231 $\chi^2$/NDF:4182.1/22

Right Out: -2843.895+/-69.139 $\chi^2$/NDF: 2453.1/18

Left In: -1587.403+/-49.552 $\chi^2$/NDF:11432.6/20

Left: -274.095+/-35.617 $\chi^2$/NDF: 17068.0/43

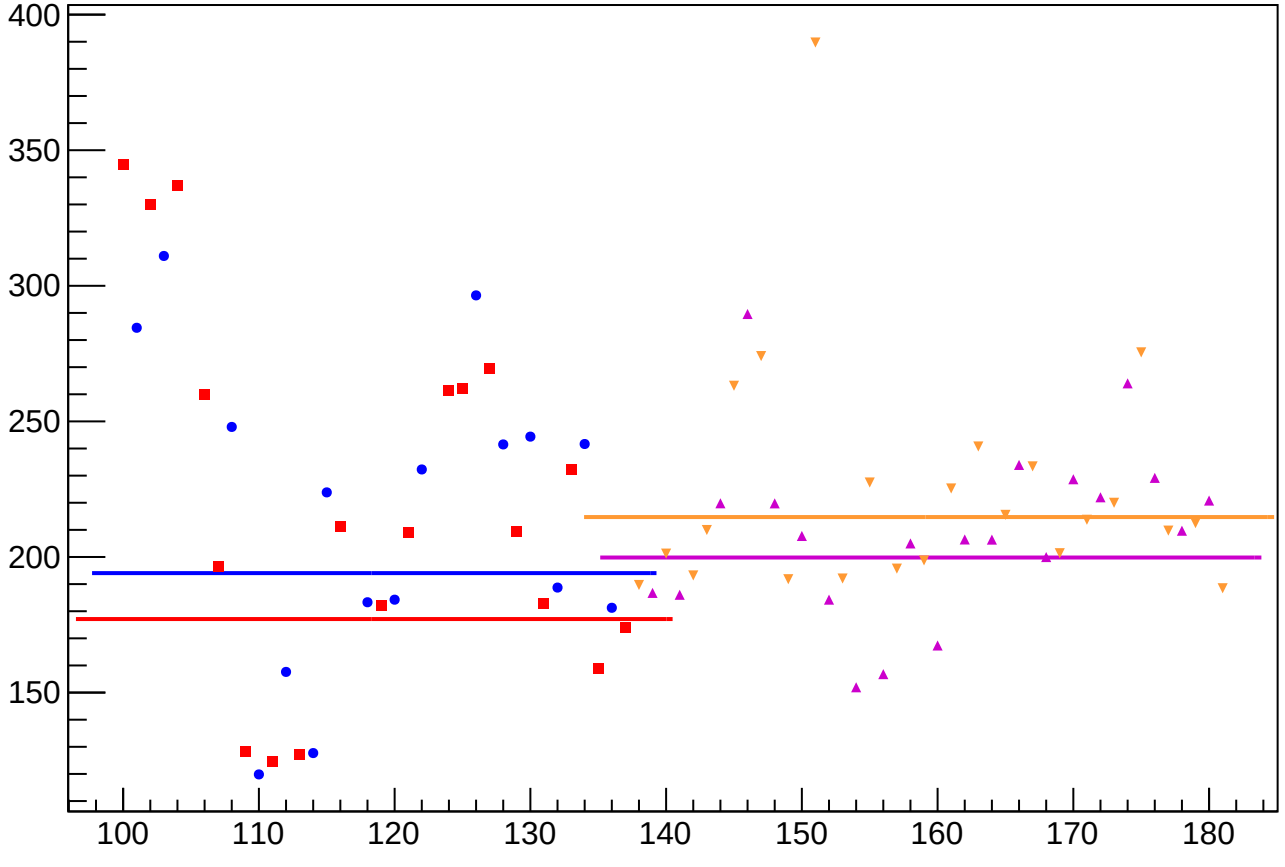
Right: -1032.468+/-51.129 $\chi^2$/NDF: 6623.4/34

In: -769.057+/-41.501 $\chi^2$/NDF:15001.6/36

Out: -278.707+/-41.162 $\chi^2$/NDF:8767.6/41

All: -521.870+/-29.225 $\chi^2$/NDF: 23839.6/78

# asym_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 194.053+/-0.054 $\chi^2$/NDF: 965786.1/15

Left Out: 214.723+/-0.036 $\chi^2$/NDF:725984.1/22

Right Out: 177.115+/-0.049 $\chi^2$/NDF: 1359345.8/18

Left In: 199.804+/-0.035 $\chi^2$/NDF:784823.8/20

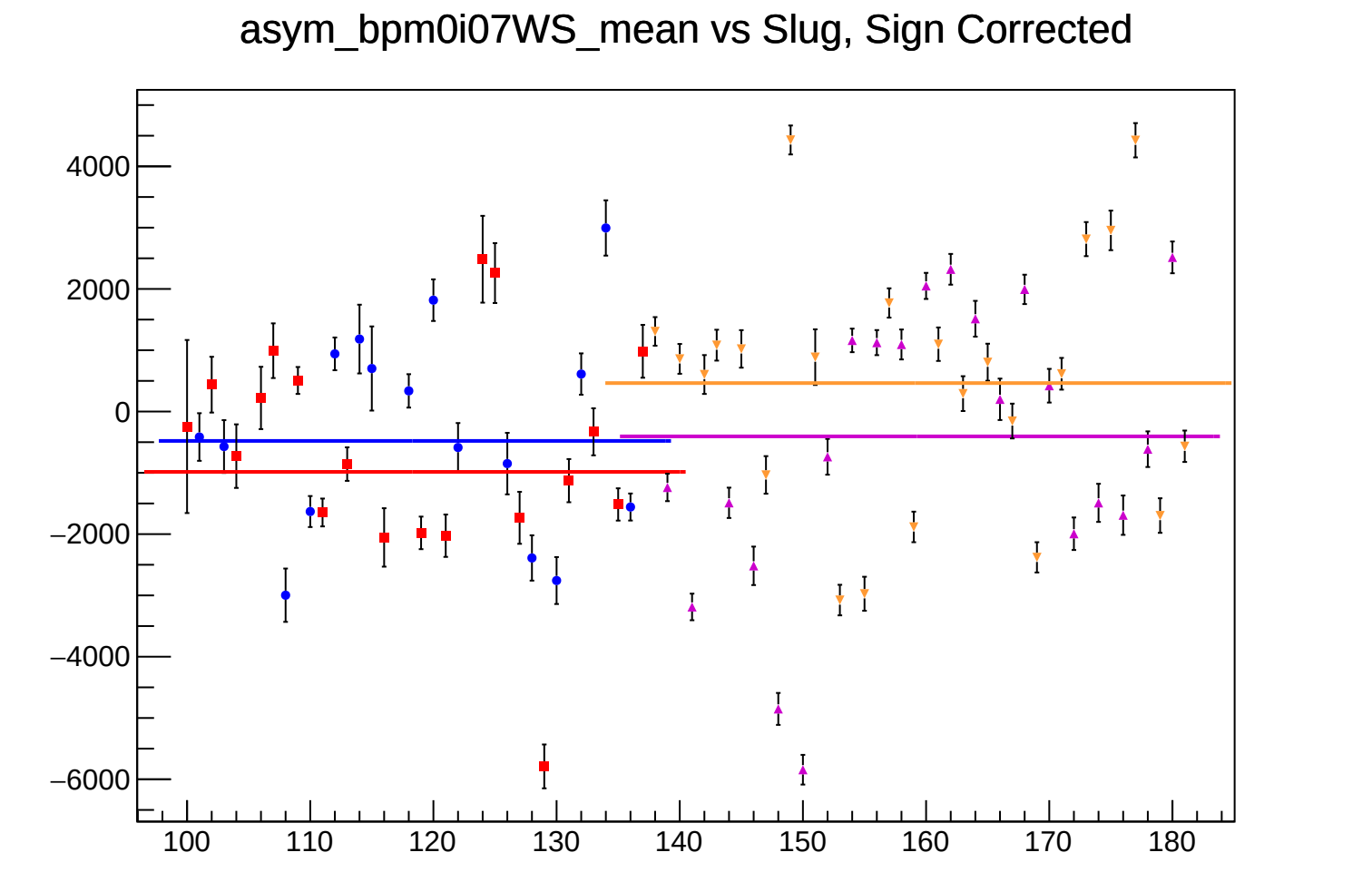
Left: 207.015+/-0.025 $\chi^2$/NDF: 1598434.4/43

Right: 184.790+/-0.036 $\chi^2$/NDF: 2379520.9/34

In: 198.087+/-0.029 $\chi^2$/NDF:1758652.8/36

Out: 201.393+/-0.029 $\chi^2$/NDF:2467337.4/41

All: 199.754+/-0.021 $\chi^2$/NDF: 4232386.9/78




Right In: -479.302+/-86.685 $\chi^2$/NDF: 305.4/15

Left Out: 464.310+/-56.662 $\chi^2$/NDF:1357.0/22

Right Out: -984.498+/-80.945 $\chi^2$/NDF: 398.1/18

Left In: -405.305+/-55.120 $\chi^2$/NDF:1798.1/20

Left: 17.504+/-39.510 $\chi^2$/NDF: 3276.1/43

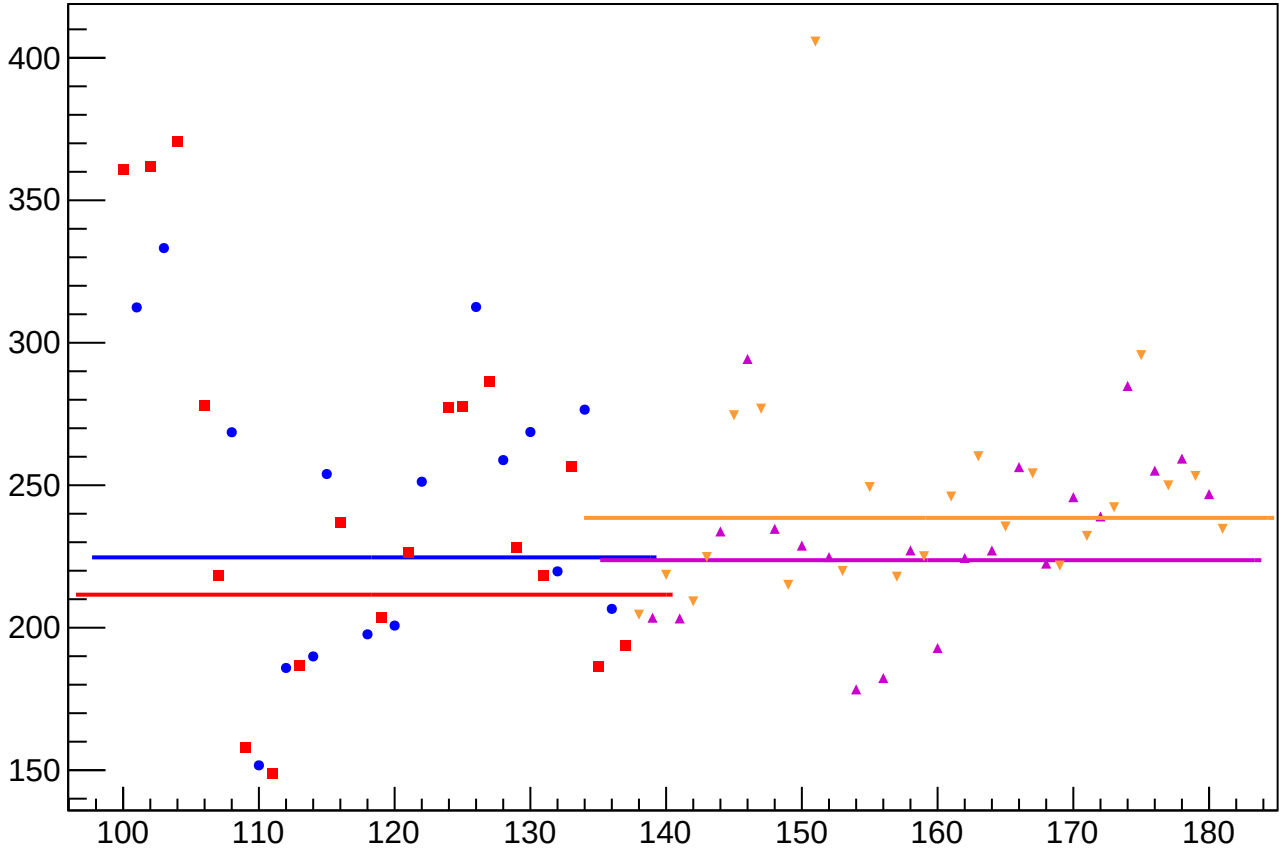
Right: -749.177+/-59.162 $\chi^2$/NDF: 721.7/34

In: -426.610+/-46.513 $\chi^2$/NDF:2104.1/36

Out: -12.150+/-46.419 $\chi^2$/NDF:1970.1/41

All: -218.963+/-32.857 $\chi^2$/NDF: 4114.0/78

# asym_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 224.683+/-0.061 $\chi^2$/NDF: 653193.4/15

Left Out: 238.543+/-0.040 $\chi^2$/NDF:566103.6/22

Right Out: 211.595+/-0.057 $\chi^2$/NDF: 932902.5/18

Left In: 223.694+/-0.039 $\chi^2$/NDF:560061.0/20

Left: 230.914+/-0.028 $\chi^2$/NDF: 1196740.2/43

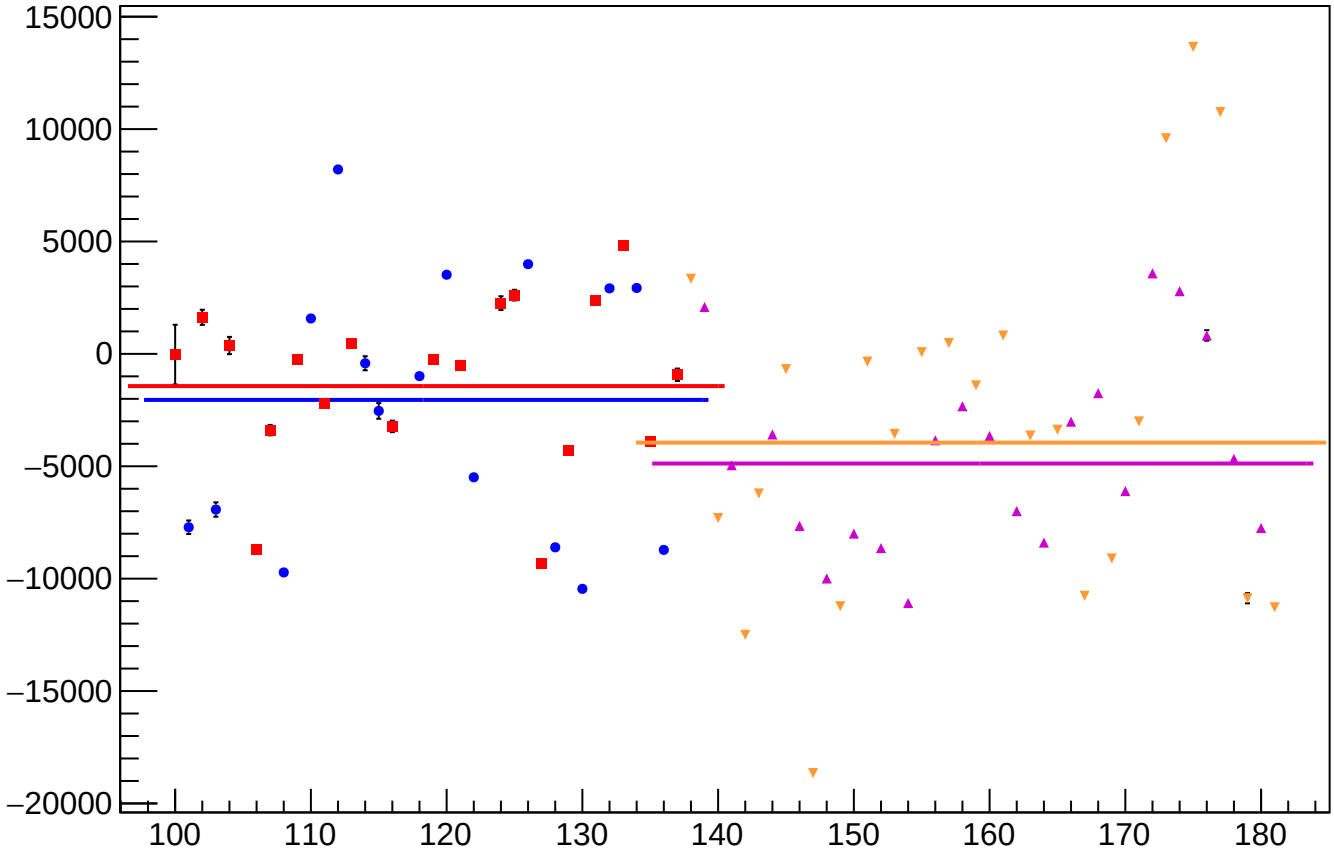
Right: 217.691+/-0.042 $\chi^2$/NDF: 1610450.2/34

In: 223.979+/-0.033 $\chi^2$/NDF:1213439.7/36

Out: 229.681+/-0.033 $\chi^2$/NDF:1647779.5/41

All: 226.836+/-0.023 $\chi^2$/NDF: 2876279.9/78

# asym_bpm1i02WS_mean vs Slug, Sign Corrected




Right In: -2047.267+/-46.722 $\chi^2$/NDF: 16709.1/15

Left Out: -3947.133+/-31.216 $\chi^2$/NDF:53912.1/22

Right Out: -1432.909+/-44.729 $\chi^2$/NDF: 6387.8/18

Left In: -4877.883+/-32.422 $\chi^2$/NDF:15405.5/20

Left: -4394.874+/-22.487 $\chi^2$/NDF: 69745.3/43

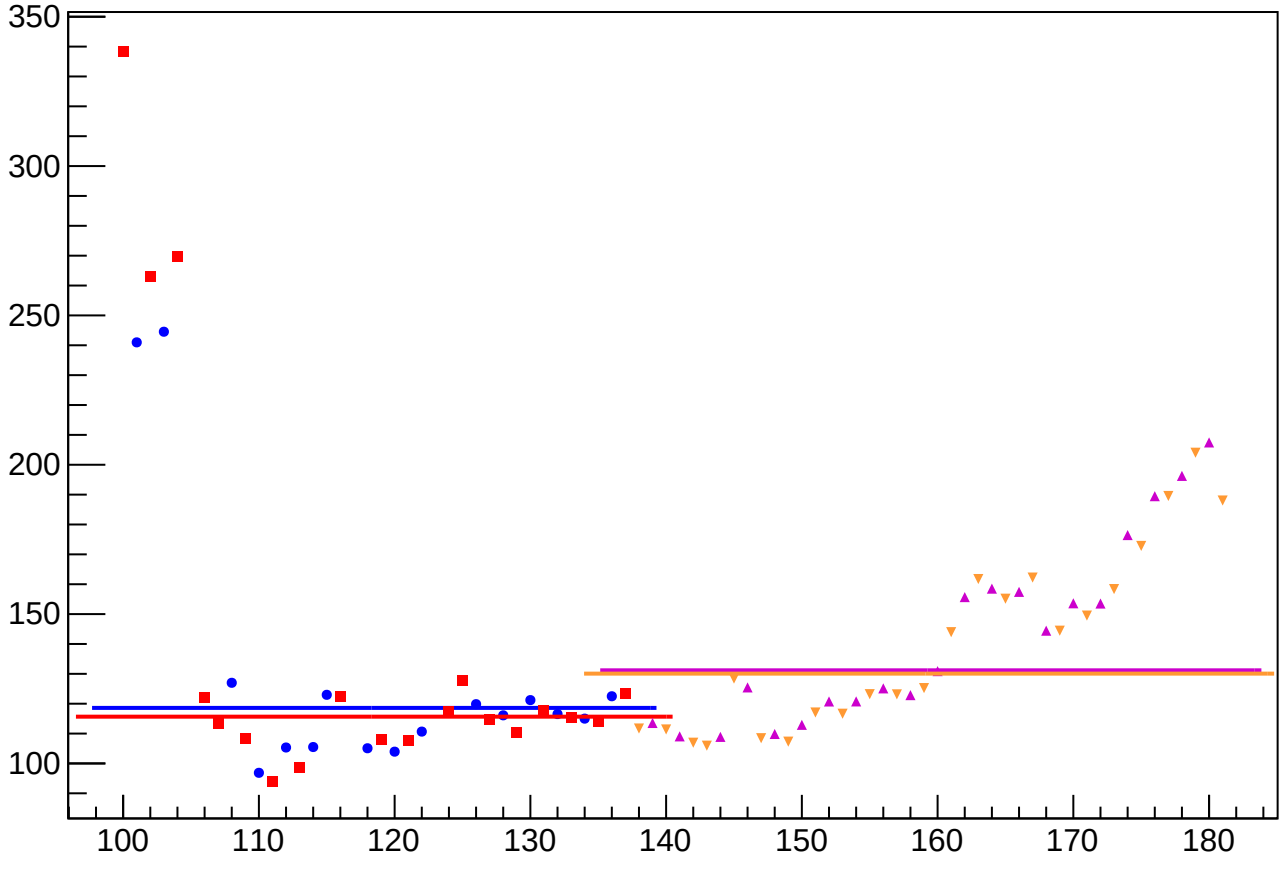
Right: -1726.707+/-32.310 $\chi^2$/NDF: 23187.1/34

In: -3957.845+/-26.637 $\chi^2$/NDF:34592.1/36

Out: -3123.655+/-25.598 $\chi^2$/NDF:62424.6/41

All: -3524.174+/-18.457 $\chi^2$/NDF: 97526.6/78

# asym_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 118.596+/-0.033 $\chi^2$/NDF: 734158.7/15

Left Out: 130.070+/-0.022 $\chi^2$/NDF:1296025.1/22

Right Out: 115.660+/-0.032 $\chi^2$/NDF: 864206.3/18

Left In: 131.177+/-0.023 $\chi^2$/NDF:1174576.7/20

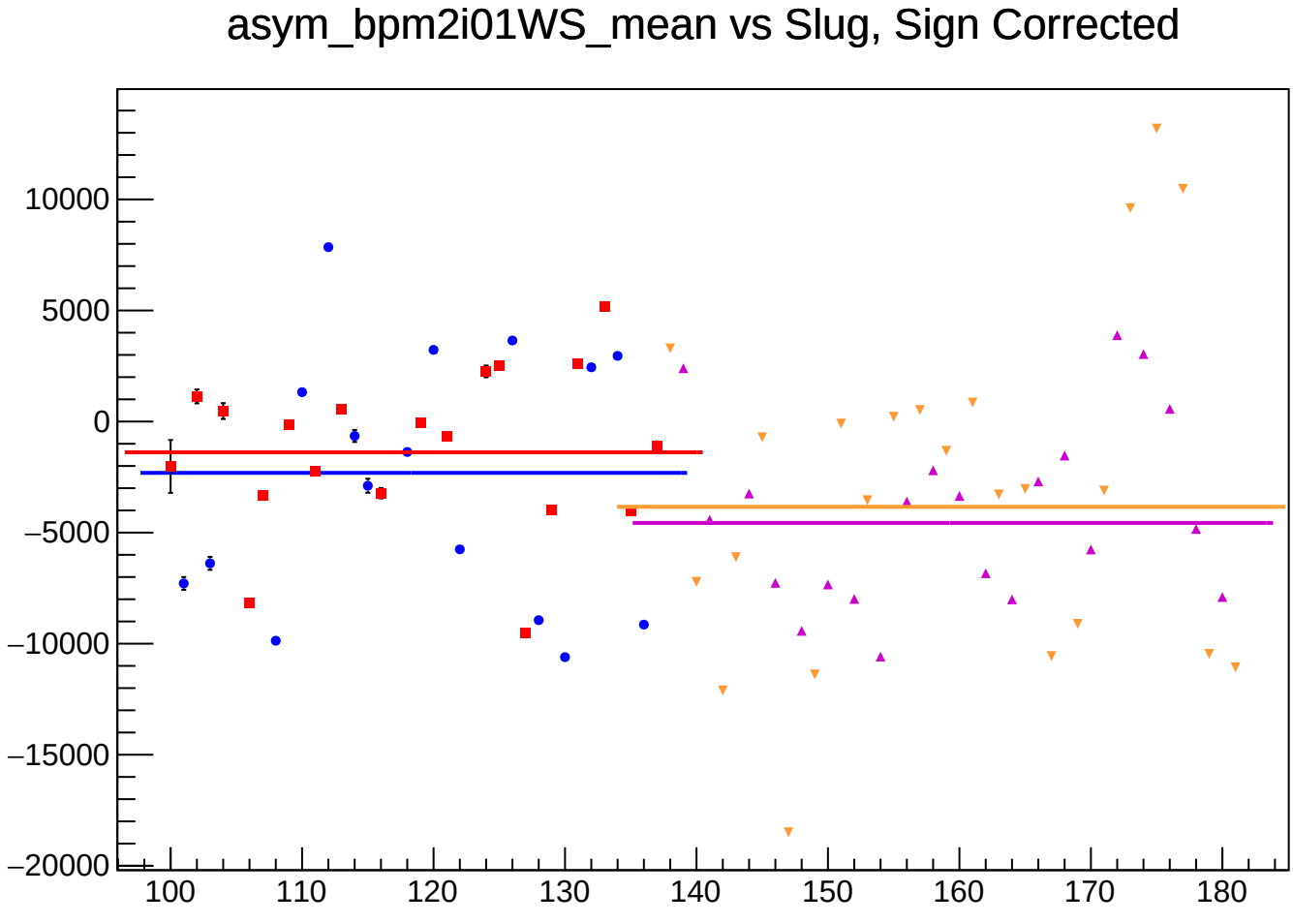
Left: 130.602+/-0.016 $\chi^2$/NDF: 2471812.5/43

Right: 117.064+/-0.023 $\chi^2$/NDF: 1602486.6/34

In: 127.088+/-0.019 $\chi^2$/NDF:2006618.9/36

Out: 125.350+/-0.018 $\chi^2$/NDF:2299821.2/41

All: 126.184+/-0.013 $\chi^2$/NDF: 4310865.4/78




Right In: -2310.581+/-40.734 $\chi^2$/NDF: 21679.5/15

Left Out: -3837.158+/-28.123 $\chi^2$/NDF:62781.8/22

Right Out: -1382.178+/-39.342 $\chi^2$/NDF: 8578.9/18

Left In: -4563.674+/-29.217 $\chi^2$/NDF:17912.8/20

Left: -4186.563+/-20.262 $\chi^2$/NDF: 81015.5/43

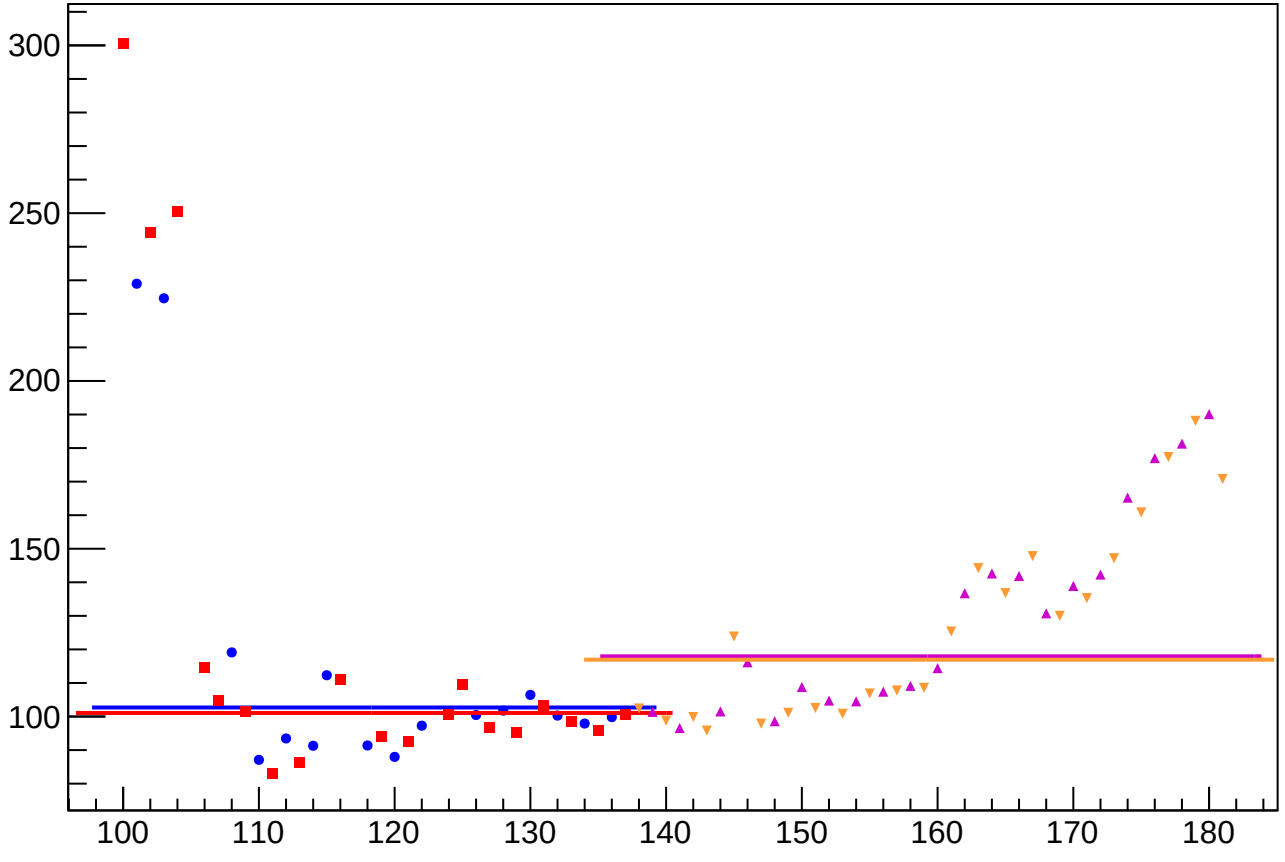
Right: -1830.238+/-28.298 $\chi^2$/NDF: 30527.1/34

In: -3798.295+/-23.742 $\chi^2$/NDF:41612.3/36

Out: -3006.905+/-22.879 $\chi^2$/NDF:73937.7/41

All: -3387.960+/-16.474 $\chi^2$/NDF: 116126.1/7

# asym_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 102.694+/-0.029 $\chi^2$/NDF: 825801.5/15

Left Out: 116.943+/-0.020 $\chi^2$/NDF:1380061.6/22

Right Out: 101.063+/-0.028 $\chi^2$/NDF: 930458.1/18

Left In: 117.942+/-0.021 $\chi^2$/NDF:1267576.4/20

Left: 117.423+/-0.014 $\chi^2$/NDF: 2648852.3/43

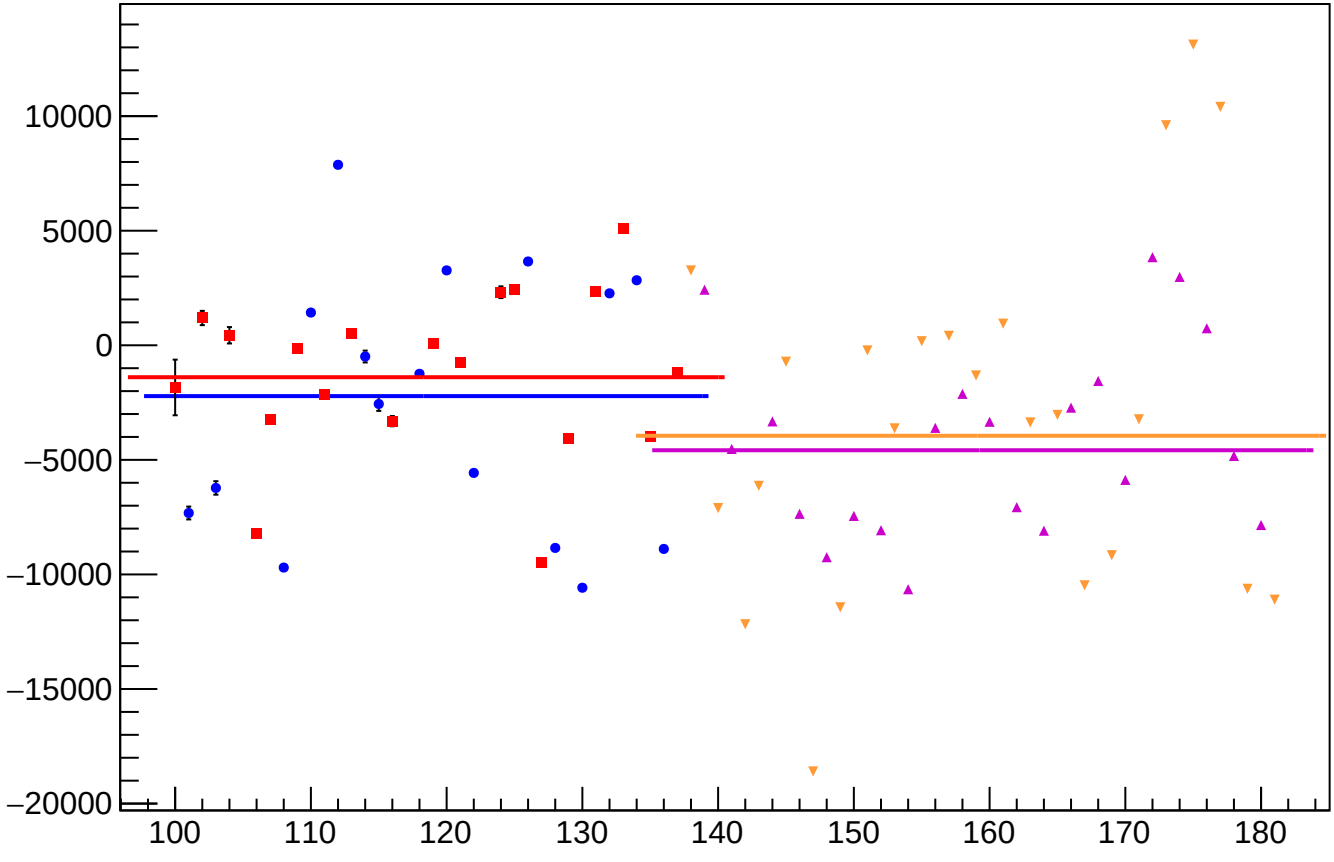
Right: 101.850+/-0.020 $\chi^2$/NDF: 1757917.4/34

In: 112.762+/-0.017 $\chi^2$/NDF:2278423.9/36

Out: 111.572+/-0.016 $\chi^2$/NDF:2526153.6/41

All: 112.145+/-0.012 $\chi^2$/NDF: 4807181.3/78

# asym_bpm2i02WS_mean vs Slug, Sign Corrected




Right In: -2218.049+/-39.039 $\chi^2$/NDF: 23040.7/15

Left Out: -3948.738+/-27.539 $\chi^2$/NDF:66966.7/22

Right Out: -1393.557+/-37.580 $\chi^2$/NDF: 9152.1/18

Left In: -4580.618+/-28.582 $\chi^2$/NDF:18929.4/20

Left: -4252.945+/-19.831 $\chi^2$/NDF: 86149.6/43

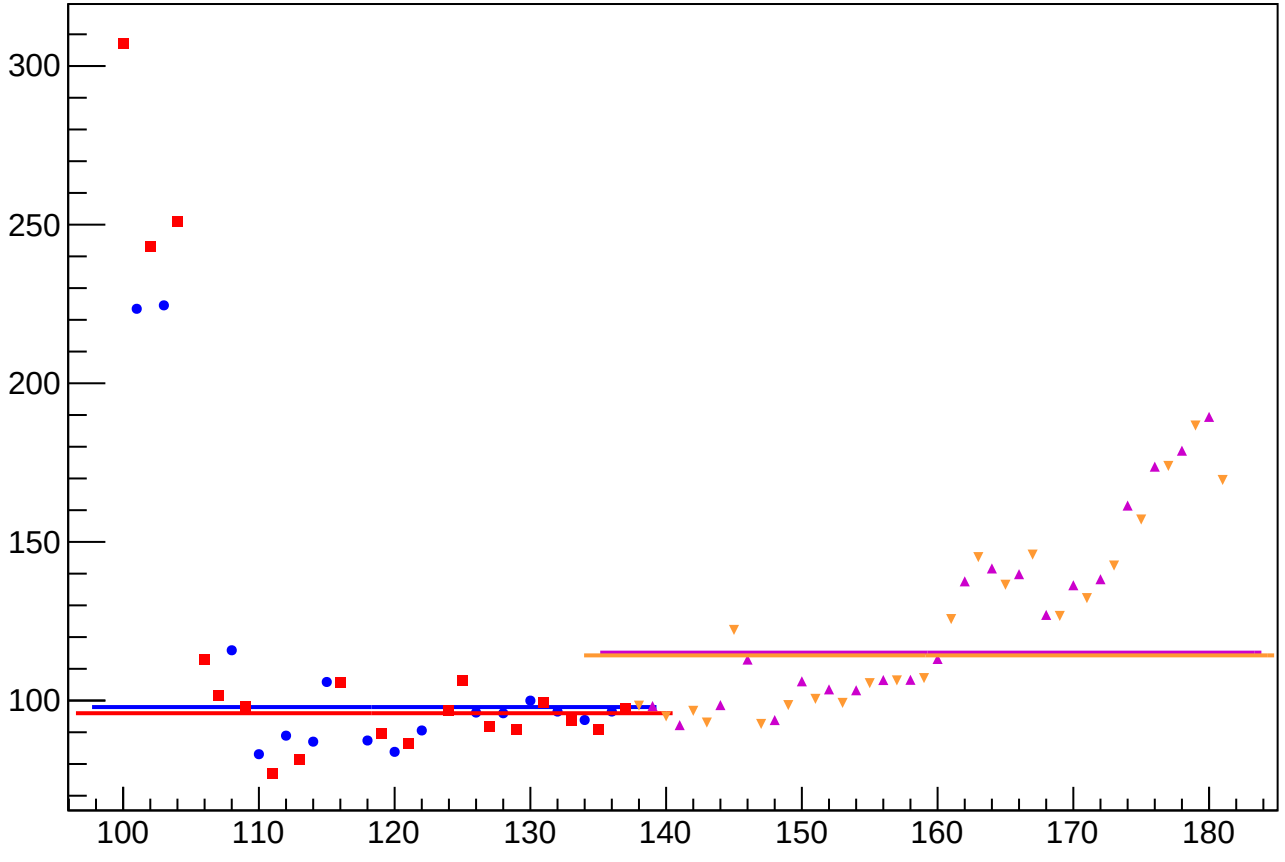
Right: -1790.108+/-27.074 $\chi^2$/NDF: 32424.3/34

In: -3756.162+/-23.061 $\chi^2$/NDF:44354.6/36

Out: -3055.978+/-22.213 $\chi^2$/NDF:79126.6/41

All: -3392.955+/-15.999 $\chi^2$/NDF: 123959.4/7

# asym_bpm2i02WS_rms vs Slug, Sign Corrected




Right In: 97.944+/-0.028 $\chi^2$/NDF: 868148.4/15

Left Out: 114.234+/-0.019 $\chi^2$/NDF:1477088.0/22

Right Out: 96.005+/-0.027 $\chi^2$/NDF: 1012287.0/18

Left In: 115.101+/-0.020 $\chi^2$/NDF:1348037.8/20

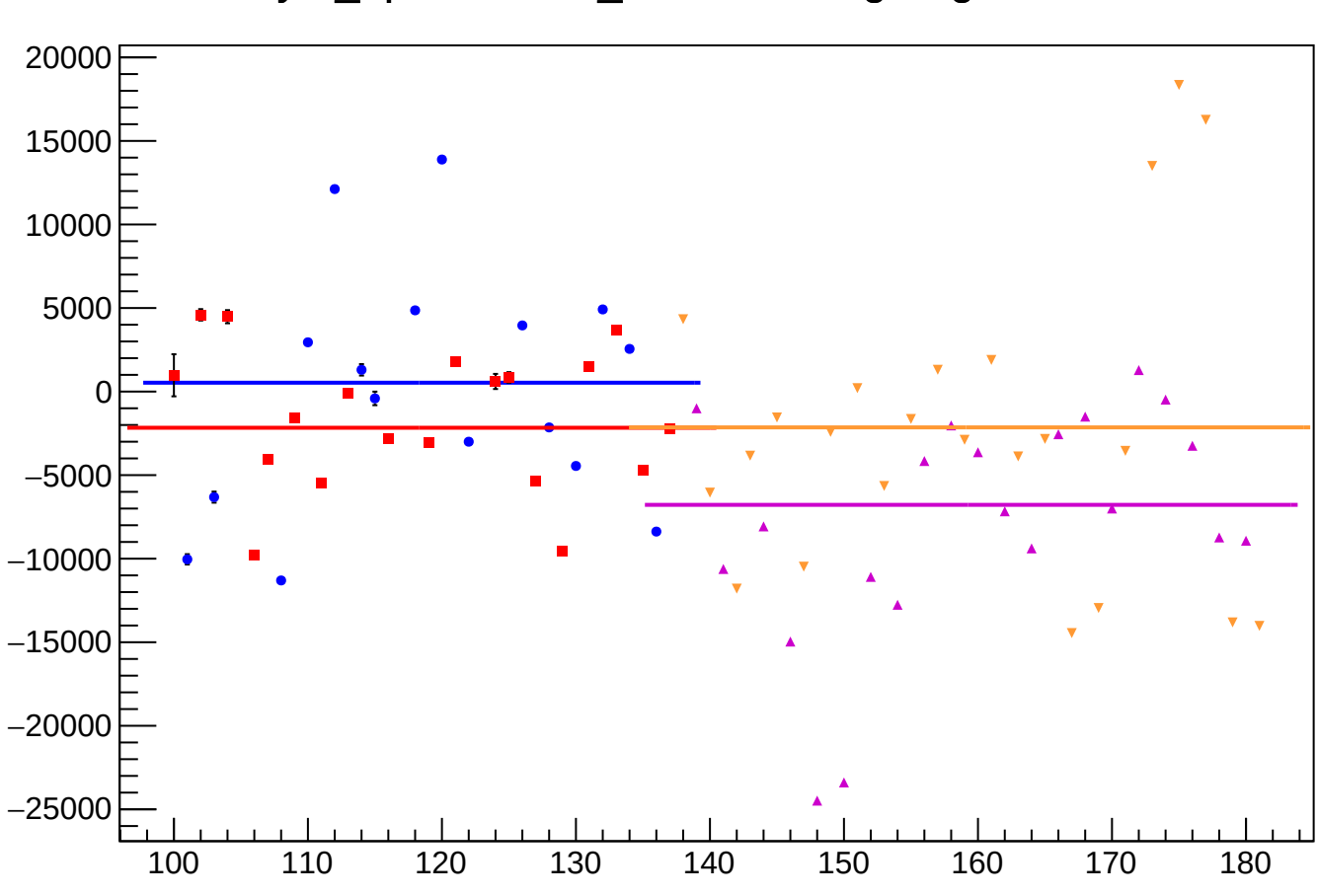
Left: 114.651+/-0.014 $\chi^2$/NDF: 2826078.3/43

Right: 96.937+/-0.019 $\chi^2$/NDF: 1882996.0/34

In: 109.113+/-0.016 $\chi^2$/NDF:2467676.0/36

Out: 107.865+/-0.016 $\chi^2$/NDF:2795570.4/41

All: 108.466+/-0.011 $\chi^2$/NDF: 5266286.0/78




Right In: 530.568+/-54.855 $\chi^2$/NDF: 18587.6/15

Left Out: -2143.335+/-38.280 $\chi^2$/NDF:43819.2/22

Right Out: -2164.994+/-53.458 $\chi^2$/NDF: 4967.1/18

Left In: -6778.869+/-40.354 $\chi^2$/NDF:20342.4/20

Left: -4338.978+/-27.772 $\chi^2$/NDF: 71107.2/43

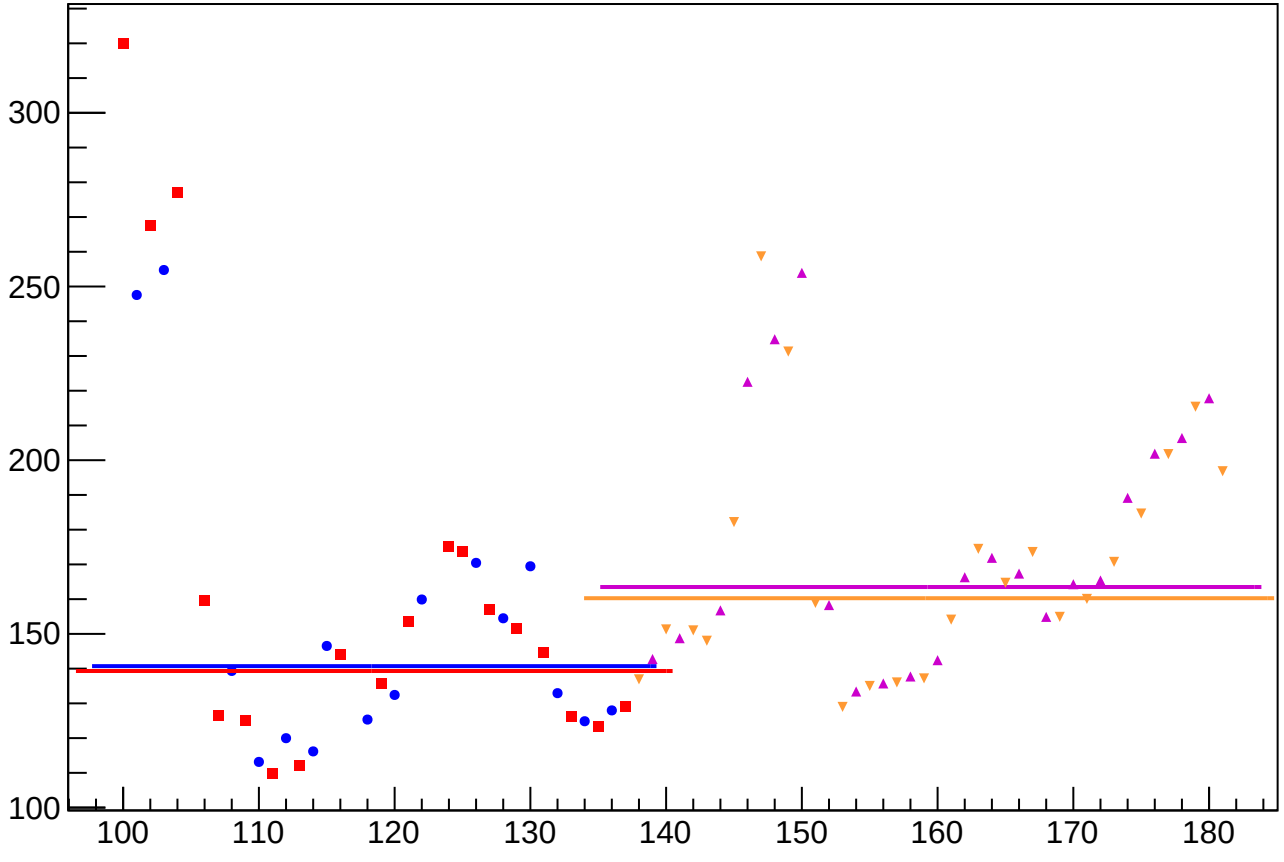
Right: -851.965+/-38.285 $\chi^2$/NDF: 24793.2/34

In: -4212.210+/-32.505 $\chi^2$/NDF:50451.0/36

Out: -2150.677+/-31.124 $\chi^2$/NDF:48786.5/41

All: -3136.695+/-22.480 $\chi^2$/NDF: 101335.9/7

# asym_bpm0i01WS_rms vs Slug, Sign Corrected




Right In: 140.715+/-0.039 $\chi^2$/NDF: 675618.7/15

Left Out: 160.272+/-0.027 $\chi^2$/NDF:1027383.1/22

Right Out: 139.317+/-0.038 $\chi^2$/NDF: 802317.0/18

Left In: 163.497+/-0.029 $\chi^2$/NDF:1077609.3/20

Left: 161.799+/-0.020 $\chi^2$/NDF: 2111717.3/43

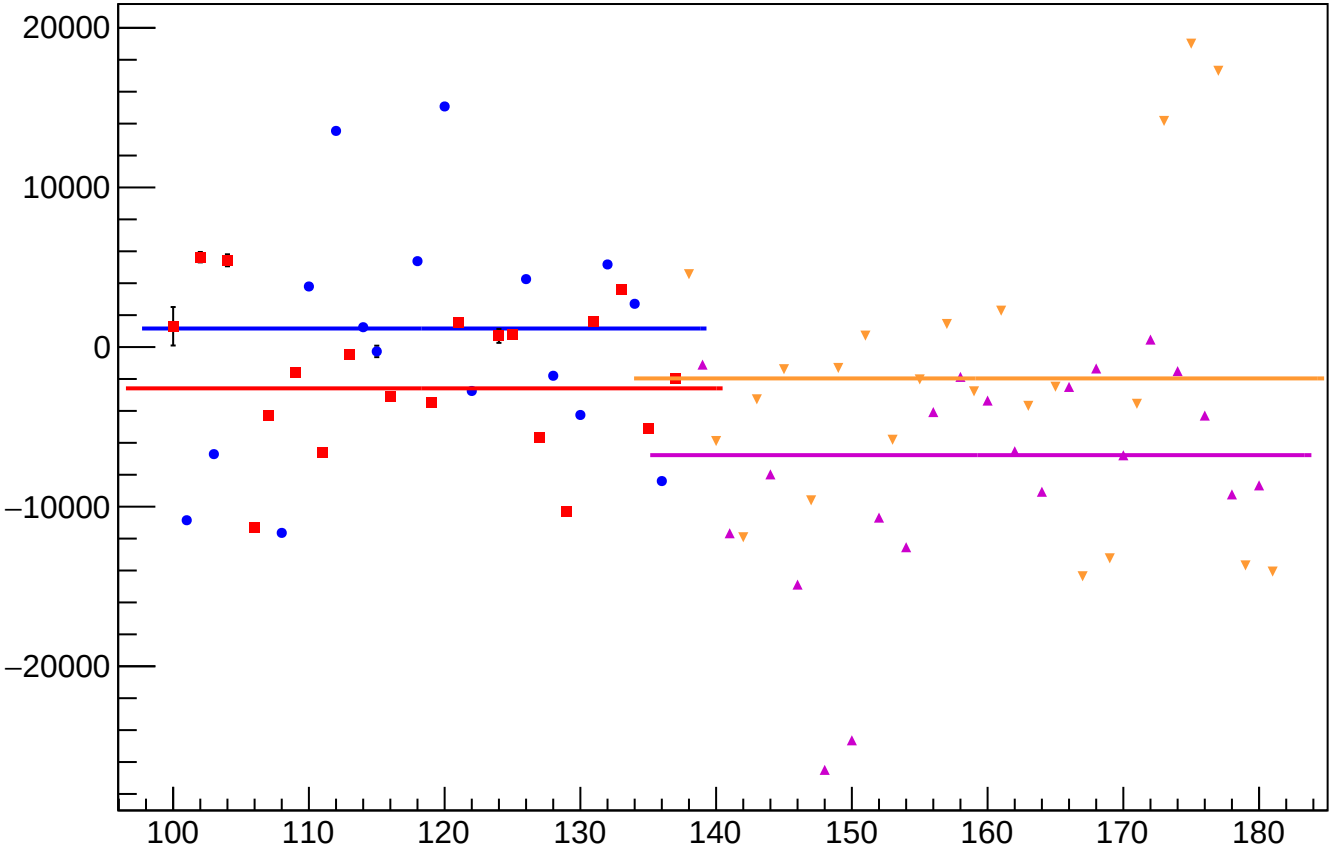
Right: 139.998+/-0.027 $\chi^2$/NDF: 1478602.2/34

In: 155.497+/-0.023 $\chi^2$/NDF:1977062.2/36

Out: 153.169+/-0.022 $\chi^2$/NDF:2032837.5/41

All: 154.283+/-0.016 $\chi^2$/NDF: 4015254.1/78

# asym_bpm0i01aWS_mean vs Slug, Sign Corrected




Right In: 1162.980+/-45.930 $\chi^2$/NDF: 30754.3/15

Left Out: -1964.724+/-34.200 $\chi^2$/NDF:54092.3/22

Right Out: -2586.755+/-44.256 $\chi^2$/NDF: 8099.7/18

Left In: -6771.674+/-36.140 $\chi^2$/NDF:25404.7/20

Left: -4235.769+/-24.841 $\chi^2$/NDF: 88830.3/43

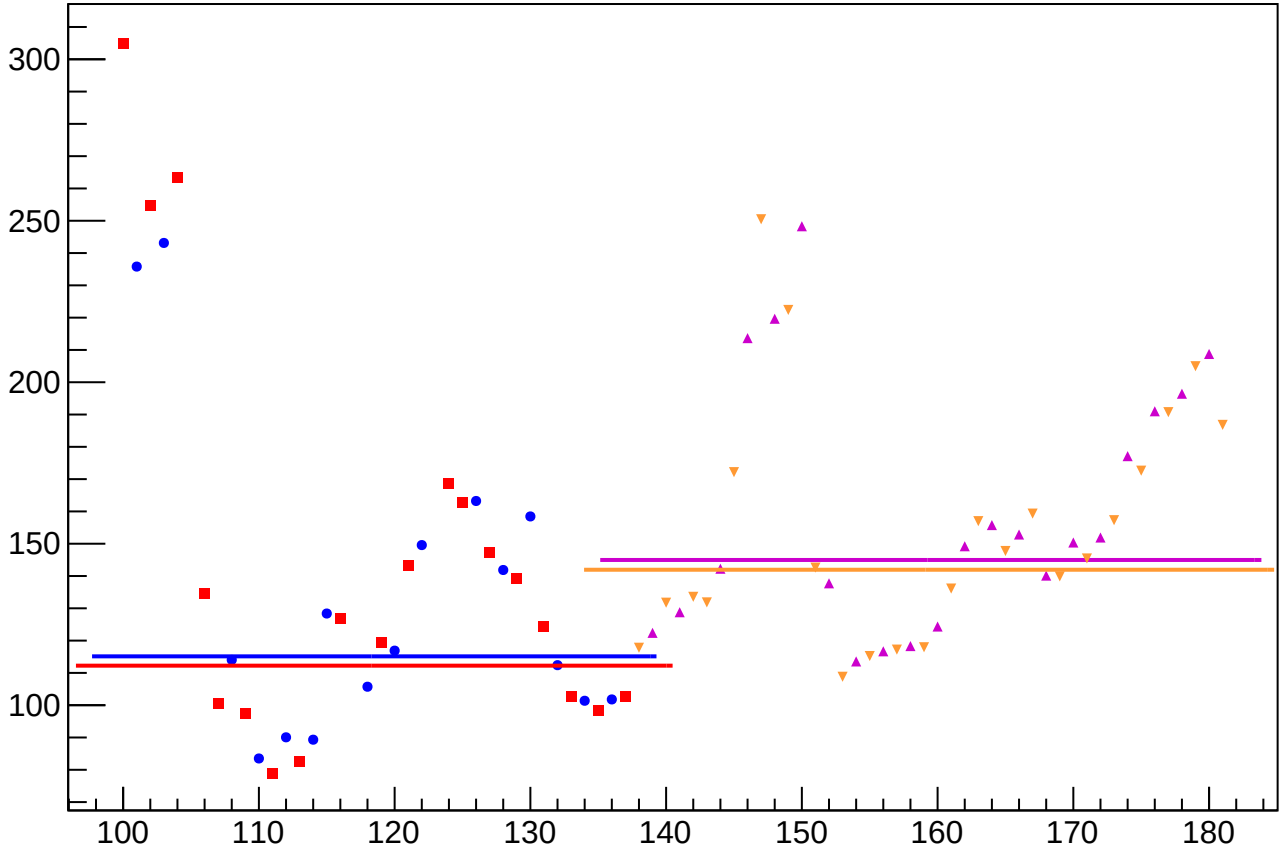
Right: -781.454+/-31.869 $\chi^2$/NDF: 42310.2/34

In: -3737.628+/-28.402 $\chi^2$/NDF:74591.5/36

Out: -2197.300+/-27.062 $\chi^2$/NDF:62315.7/41

All: -2930.266+/-19.592 $\chi^2$/NDF: 138448.9/7

# asym_bpm0i01aWS_rms vs Slug, Sign Corrected




Right In: 115.125+/-0.032 $\chi^2$/NDF: 1112987.2/15

Left Out: 141.942+/-0.024 $\chi^2$/NDF:1502957.8/22

Right Out: 112.241+/-0.031 $\chi^2$/NDF: 1328156.6/18

Left In: 144.969+/-0.026 $\chi^2$/NDF:1547551.6/20

Left: 143.372+/-0.018 $\chi^2$/NDF: 3057907.5/43

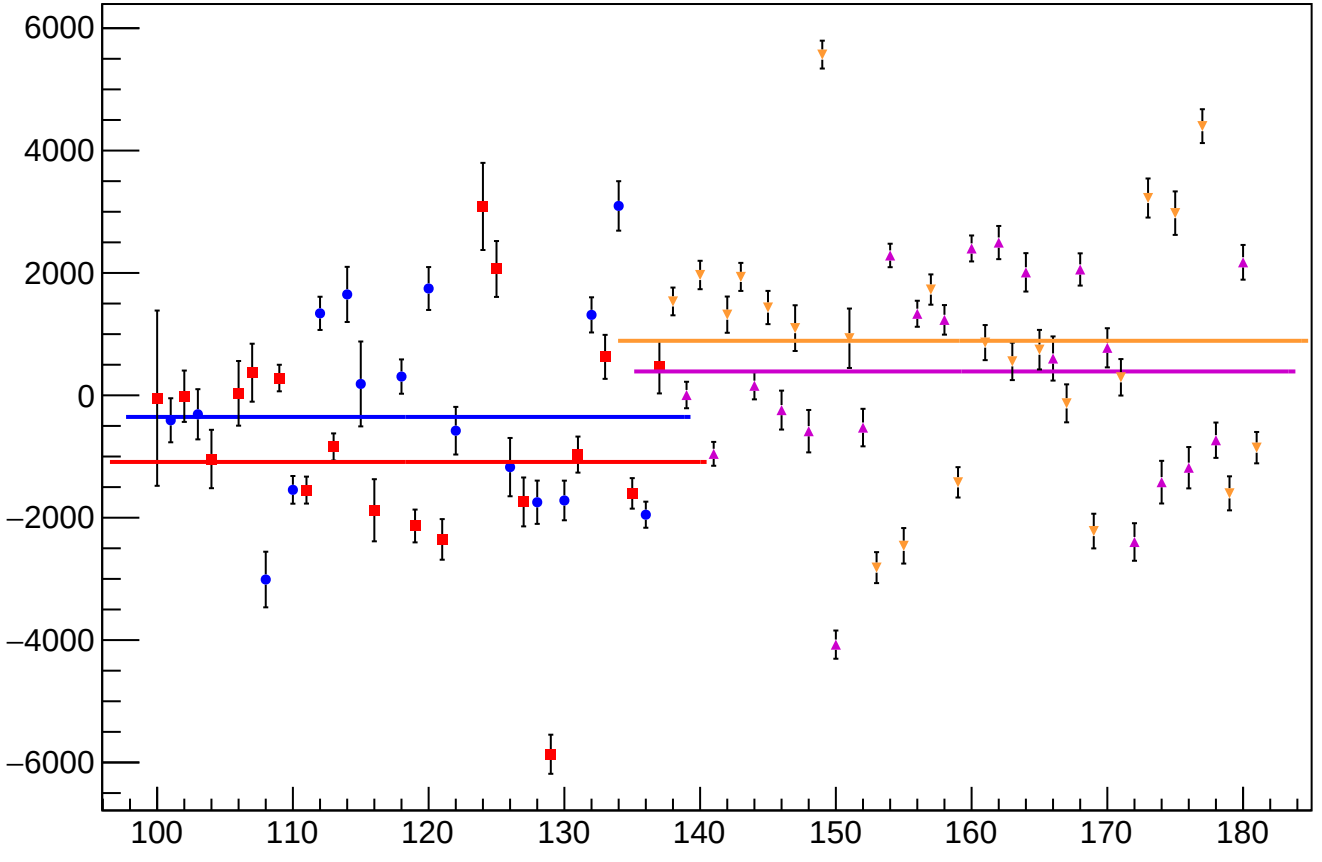
Right: 113.630+/-0.023 $\chi^2$/NDF: 2445233.6/34

In: 133.557+/-0.020 $\chi^2$/NDF:3182031.2/36

Out: 130.837+/-0.019 $\chi^2$/NDF:3395106.8/41

All: 132.132+/-0.014 $\chi^2$/NDF: 6586752.9/78

# asym_bpm0l01WS_mean vs Slug, Sign Corrected




Right In: -353.129+/-82.136 $\chi^2$/NDF: 361.8/15

Left Out: 891.141+/-57.915 $\chi^2$/NDF:1436.6/22

Right Out: -1088.752+/-76.444 $\chi^2$/NDF: 447.2/18

Left In: 390.184+/-56.641 $\chi^2$/NDF:981.4/20

Left: 635.091+/-40.494 $\chi^2$/NDF: 2456.3/43

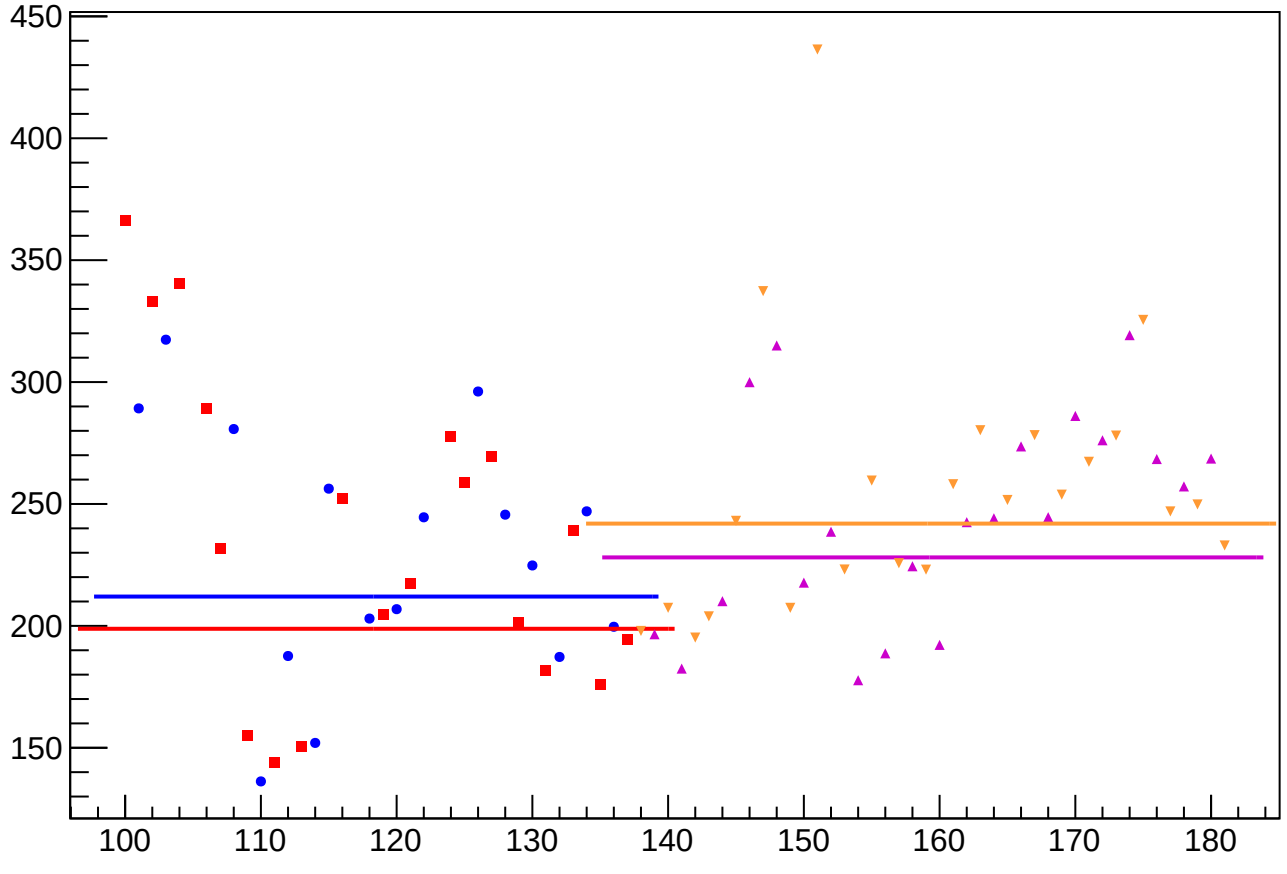
Right: -747.310+/-55.958 $\chi^2$/NDF: 852.0/34

In: 150.625+/-46.629 $\chi^2$/NDF:1398.8/36

Out: 169.138+/-46.163 $\chi^2$/NDF:2309.9/41

All: 159.975+/-32.805 $\chi^2$/NDF: 3708.8/78

# asym_bpm0l01WS_rms vs Slug, Sign Corrected




Right In: 212.027+/-0.058 $\chi^2$/NDF: 690358.0/15

Left Out: 241.951+/-0.041 $\chi^2$/NDF:985947.0/22

Right Out: 198.809+/-0.054 $\chi^2$/NDF: 974928.4/18

Left In: 228.085+/-0.040 $\chi^2$/NDF:1054981.9/20

Left: 234.864+/-0.029 $\chi^2$/NDF: 2099526.9/43

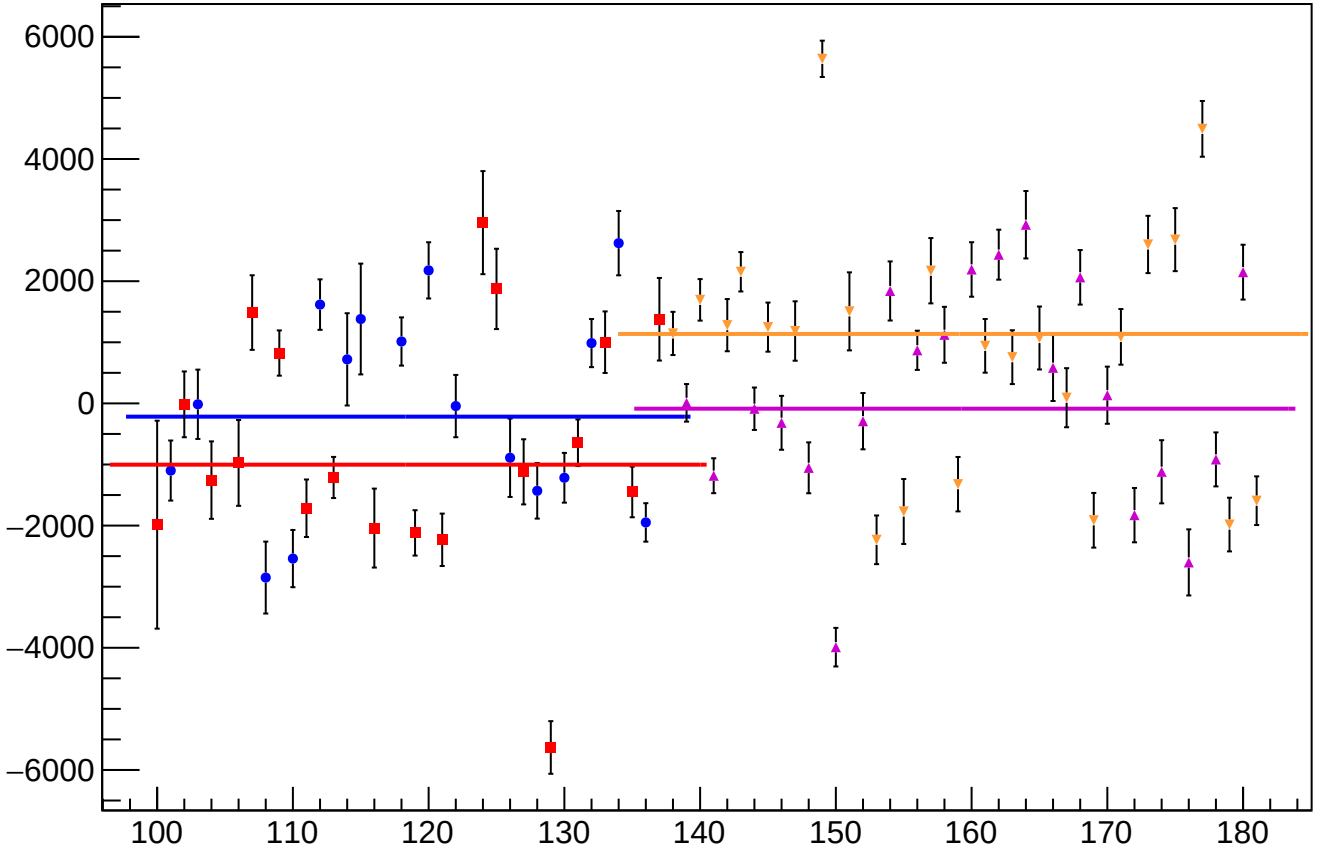
Right: 204.945+/-0.040 $\chi^2$/NDF: 1693041.6/34

In: 222.910+/-0.033 $\chi^2$/NDF:1797145.8/36

Out: 226.219+/-0.033 $\chi^2$/NDF:2365586.3/41

All: 224.581+/-0.023 $\chi^2$/NDF: 4167818.2/78

# asym_bpm0l02WS_mean vs Slug, Sign Corrected




Right In: -216.948+/-117.887 $\chi^2$/NDF: 192.2/15

Left Out: 1136.759+/-88.699 $\chi^2$/NDF:600.4/22

Right Out: -1003.049+/-113.111 $\chi^2$/NDF: 254.3/18

Left In: -86.371+/-89.417 $\chi^2$/NDF:393.3/20

Left: 530.125+/-62.972 $\chi^2$/NDF: 1088.0/43

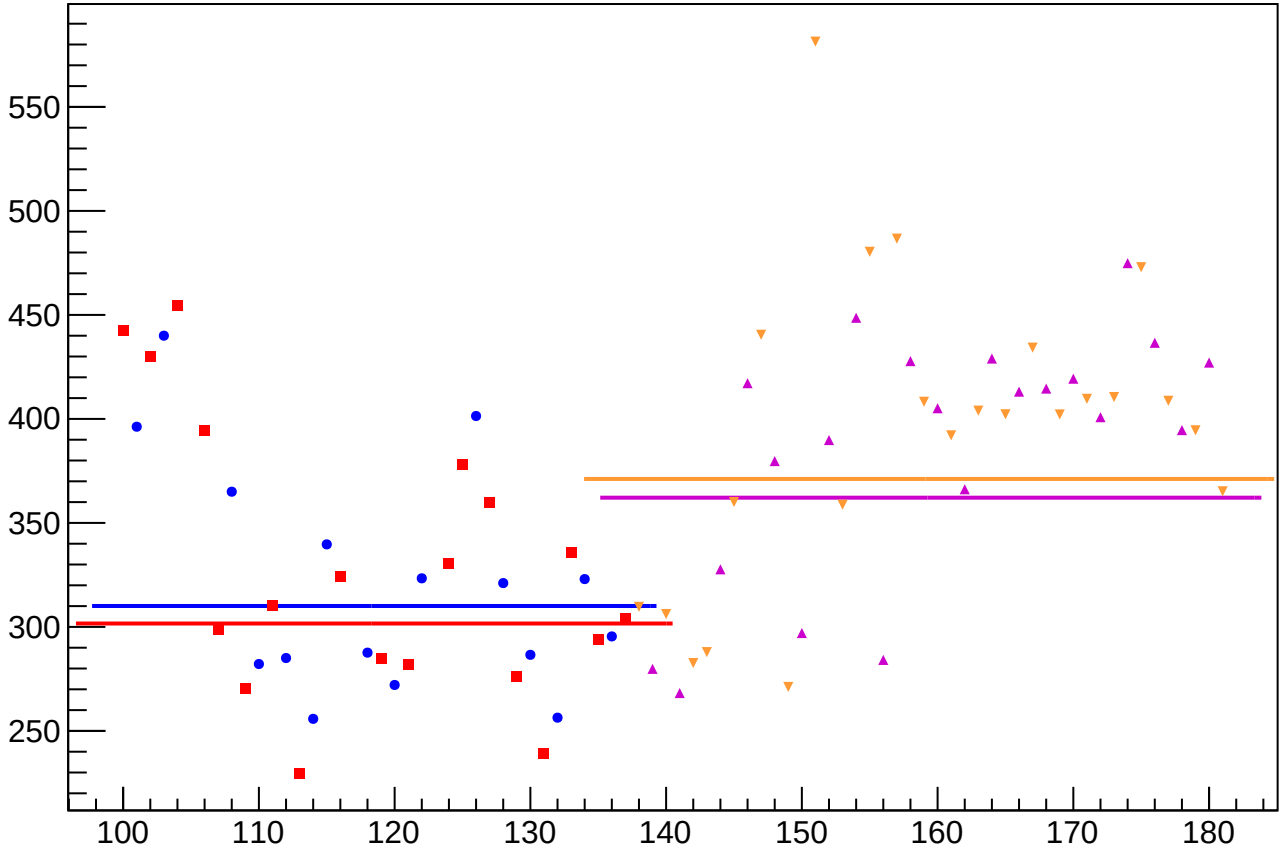
Right: -626.246+/-81.618 $\chi^2$/NDF: 469.7/34

In: -134.059+/-71.242 $\chi^2$/NDF:586.2/36

Out: 321.957+/-69.798 $\chi^2$/NDF:1076.3/41

All: 98.618+/-49.857 $\chi^2$/NDF: 1683.5/78

# asym_bpm0l02WS_rms vs Slug, Sign Corrected




Right In: 310.062+/-0.083 $\chi^2$/NDF: 323283.5/15

Left Out: 371.133+/-0.063 $\chi^2$/NDF:1224220.3/22

Right Out: 301.637+/-0.080 $\chi^2$/NDF: 519888.9/18

Left In: 362.130+/-0.063 $\chi^2$/NDF:1053196.6/20

Left: 366.668+/-0.045 $\chi^2$/NDF: 2287636.0/43

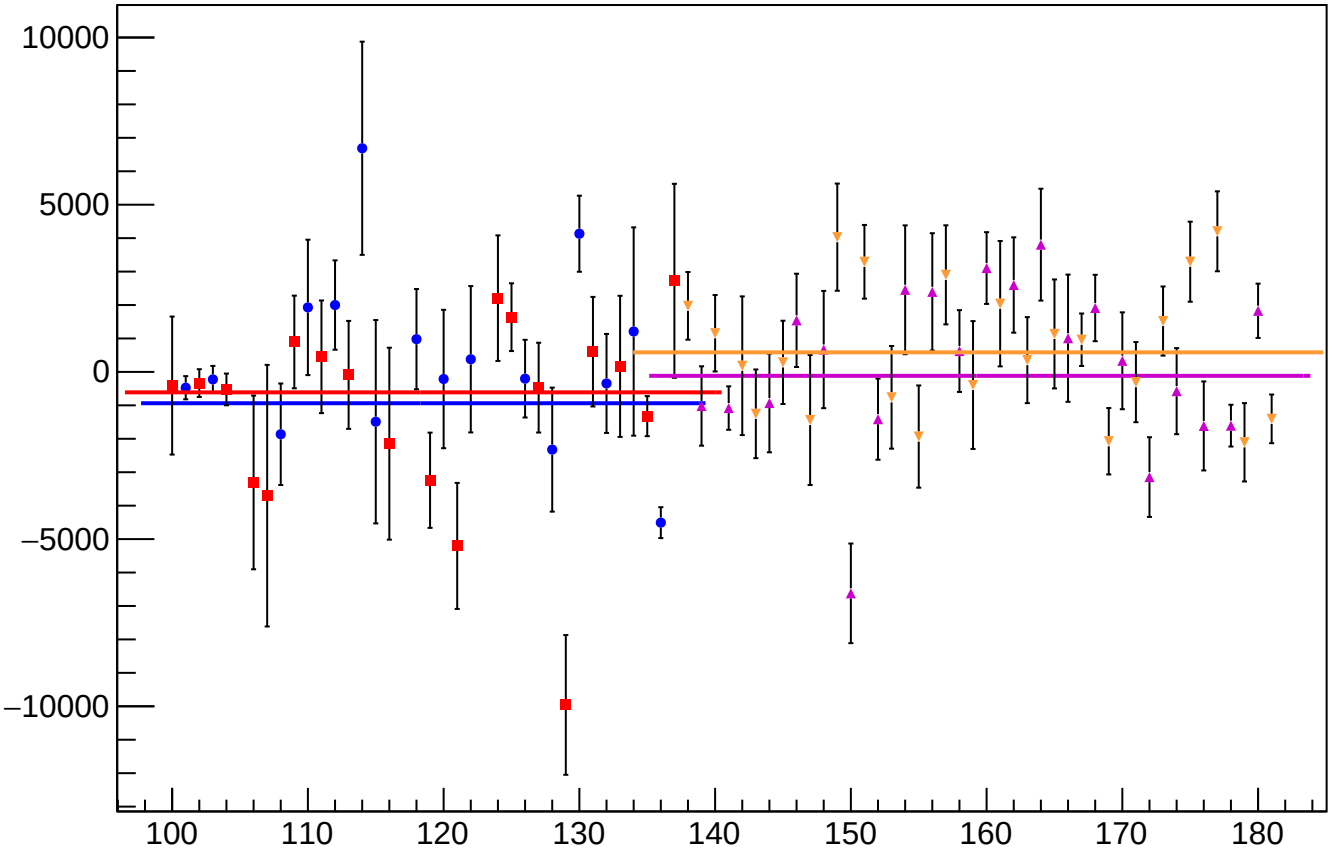
Right: 305.675+/-0.058 $\chi^2$/NDF: 848490.9/34

In: 343.114+/-0.050 $\chi^2$/NDF:1624149.3/36

Out: 344.670+/-0.049 $\chi^2$/NDF:2211613.5/41

All: 343.908+/-0.035 $\chi^2$/NDF: 3836249.5/78

# asym_bpm0l03WS_mean vs Slug, Sign Corrected




Right In: -936.949+/-204.717 $\chi^2$/NDF: 101.2/15

Left Out: 584.940+/-251.566 $\chi^2$/NDF:58.7/22

Right Out: -611.668+/-233.144 $\chi^2$/NDF: 44.1/18

Left In: -117.116+/-248.406 $\chi^2$/NDF:71.2/20

Left: 229.475+/-176.756 $\chi^2$/NDF: 133.8/43

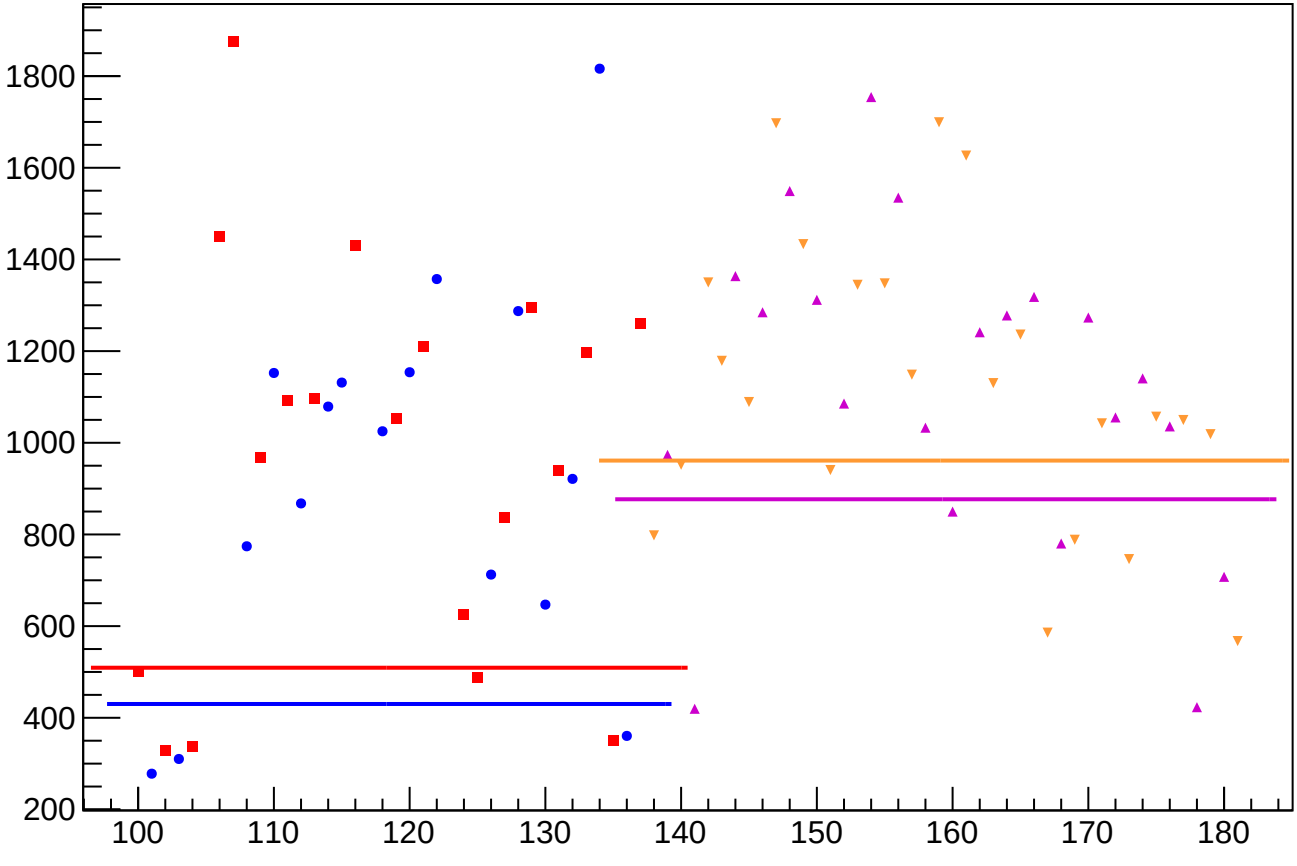
Right: -795.339+/-153.831 $\chi^2$/NDF: 146.4/34

In: -605.351+/-157.981 $\chi^2$/NDF:178.8/36

Out: -58.776+/-171.000 $\chi^2$/NDF:115.0/41

All: -353.659+/-116.039 $\chi^2$/NDF: 299.3/78

# asym_bpm0l03WS_rms vs Slug, Sign Corrected




Right In: 430.110+/-0.145 $\chi^2$/NDF: 3521861.8/15

Left Out: 961.186+/-0.178 $\chi^2$/NDF:2813569.1/22

Right Out: 509.236+/-0.165 $\chi^2$/NDF: 3673425.8/18

Left In: 876.763+/-0.176 $\chi^2$/NDF:4467036.1/20

Left: 918.441+/-0.125 $\chi^2$/NDF: 7394651.3/43

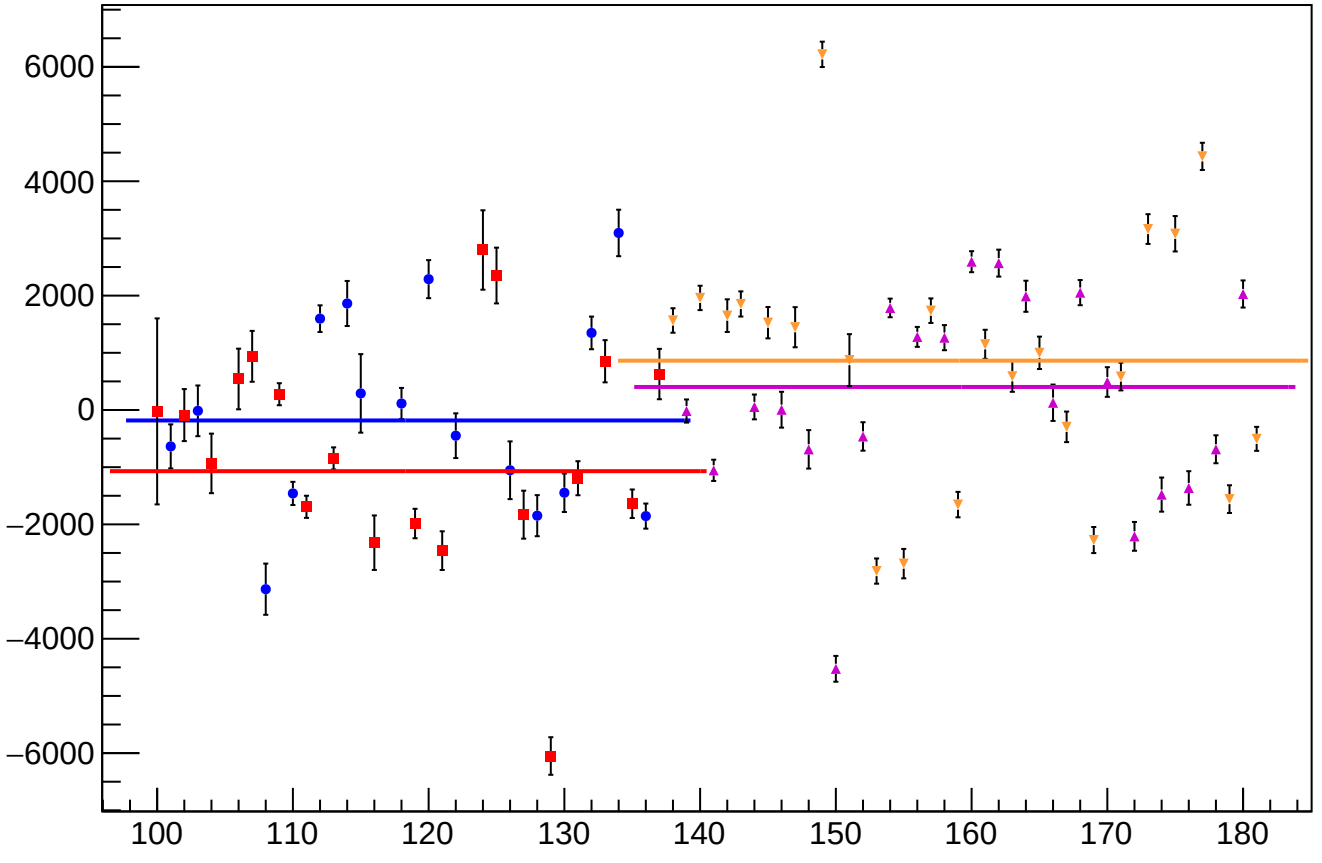
Right: 464.557+/-0.109 $\chi^2$/NDF: 7325362.7/34

In: 610.768+/-0.112 $\chi^2$/NDF:11839682.9/36

Out: 718.060+/-0.121 $\chi^2$/NDF:9959561.5/41

All: 660.174+/-0.082 $\chi^2$/NDF: 22224030.2/78

# asym_bpm0l04WS_mean vs Slug, Sign Corrected




Right In: -183.020+/-79.863 $\chi^2$/NDF: 417.7/15

Left Out: 862.596+/-51.618 $\chi^2$/NDF:1979.6/22

Right Out: -1069.729+/-73.060 $\chi^2$/NDF: 492.3/18

Left In: 402.695+/-49.979 $\chi^2$/NDF:1250.0/20

Left: 625.227+/-35.906 $\chi^2$/NDF: 3270.6/43

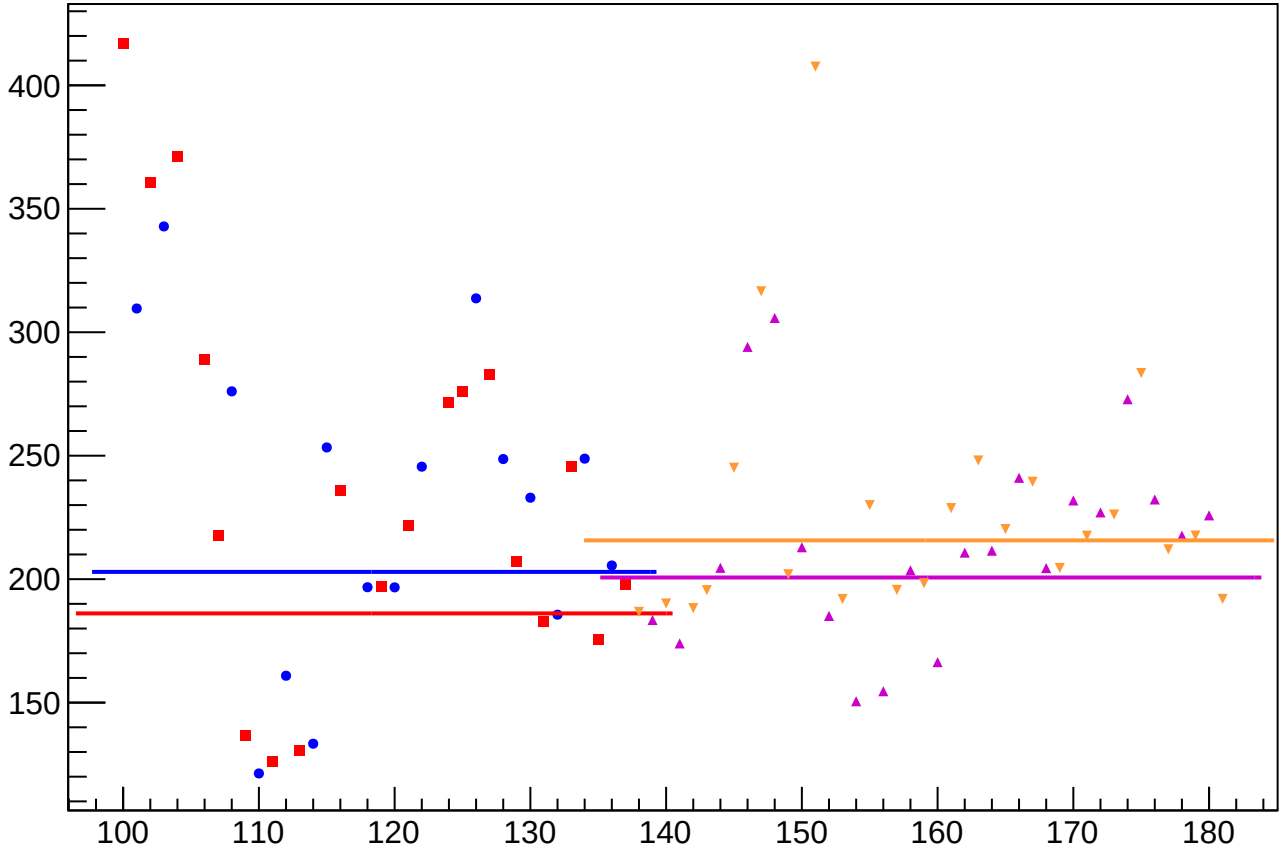
Right: -665.741+/-53.906 $\chi^2$/NDF: 977.1/34

In: 237.862+/-42.367 $\chi^2$/NDF:1706.4/36

Out: 219.209+/-42.158 $\chi^2$/NDF:2938.5/41

All: 228.490+/-29.884 $\chi^2$/NDF: 4645.0/78

# asym_bpm0l04WS_rms vs Slug, Sign Corrected




Right In: 202.941+/-0.056 $\chi^2$/NDF: 1071859.2/15

Left Out: 215.703+/-0.036 $\chi^2$/NDF:892232.4/22

Right Out: 186.129+/-0.052 $\chi^2$/NDF: 1481664.4/18

Left In: 200.670+/-0.035 $\chi^2$/NDF:1104973.8/20

Left: 207.944+/-0.025 $\chi^2$/NDF: 2084768.1/43

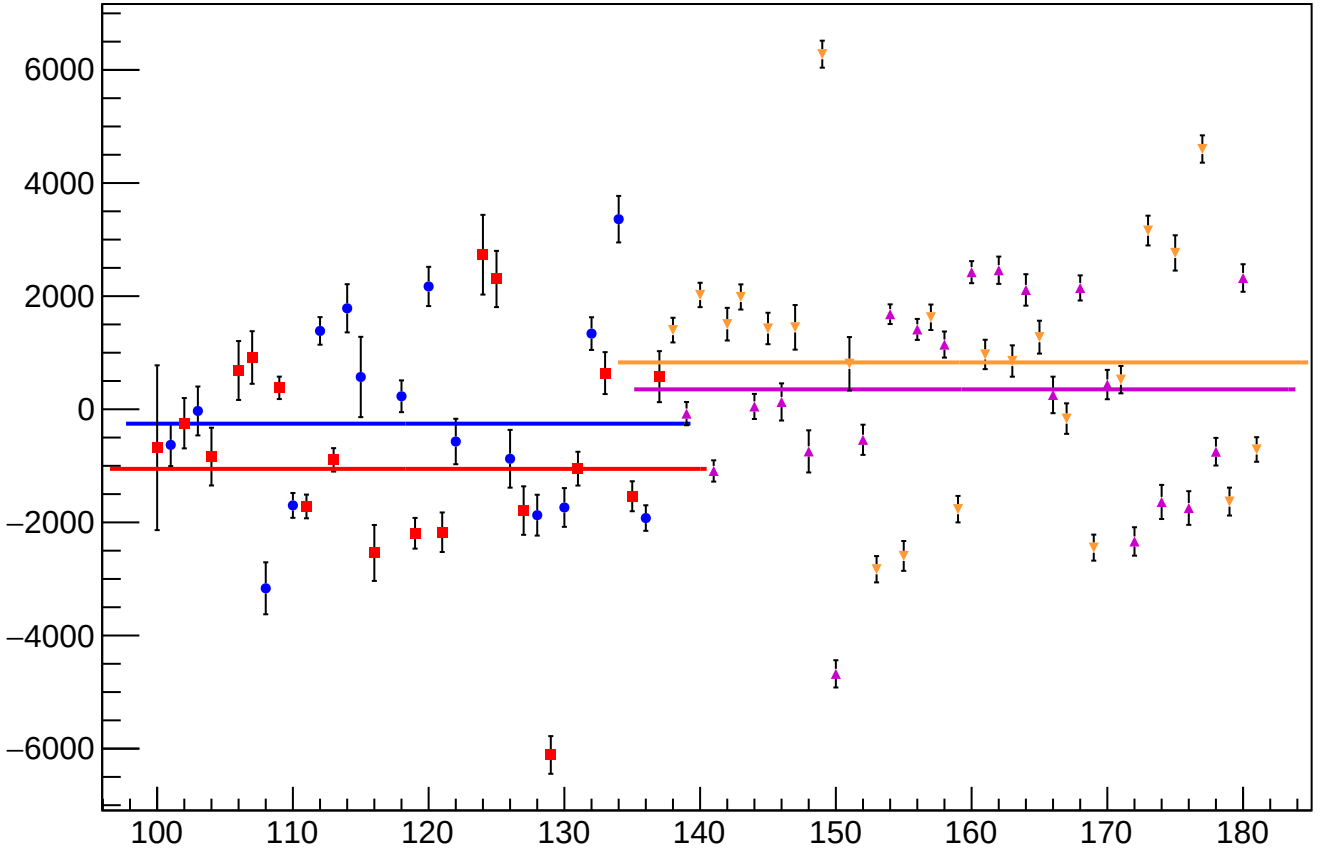
Right: 193.789+/-0.038 $\chi^2$/NDF: 2601774.8/34

In: 201.309+/-0.030 $\chi^2$/NDF:2177995.6/36

Out: 205.856+/-0.030 $\chi^2$/NDF:2592497.5/41

All: 203.594+/-0.021 $\chi^2$/NDF: 4782070.3/78

# asym_bpm0l05WS_mean vs Slug, Sign Corrected




Right In: -254.470+/-82.490 $\chi^2$/NDF: 409.3/15

Left Out: 828.392+/-53.022 $\chi^2$/NDF:1879.4/22

Right Out: -1053.731+/-75.969 $\chi^2$/NDF: 477.7/18

Left In: 352.256+/-51.739 $\chi^2$/NDF:1211.7/20

Left: 584.495+/-37.031 $\chi^2$/NDF: 3132.4/43

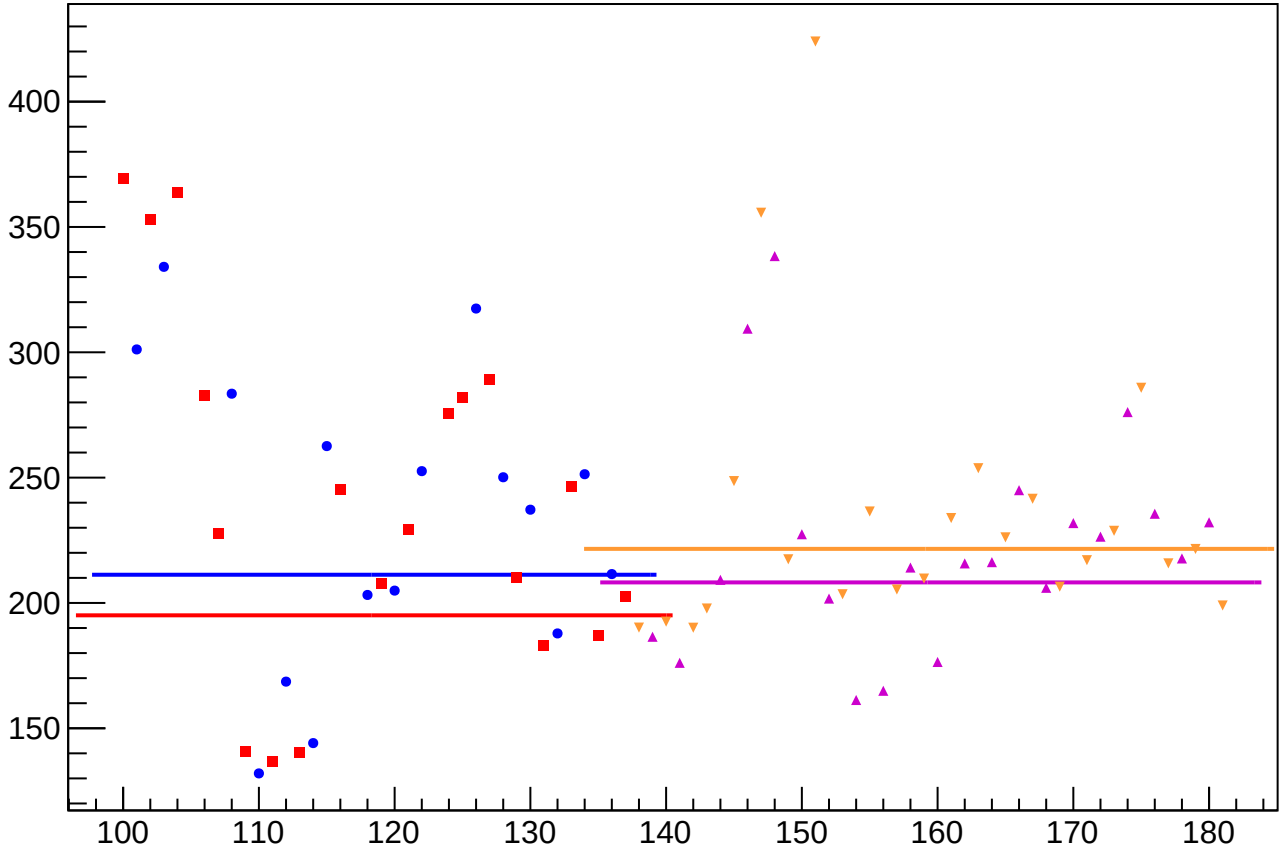
Right: -686.933+/-55.882 $\chi^2$/NDF: 937.7/34

In: 180.955+/-43.831 $\chi^2$/NDF:1659.8/36

Out: 211.882+/-43.479 $\chi^2$/NDF:2769.8/41

All: 196.543+/-30.868 $\chi^2$/NDF: 4429.9/78

# asym_bpm0l05WS_rms vs Slug, Sign Corrected




Right In: 211.254+/-0.058 $\chi^2$/NDF: 884363.6/15

Left Out: 221.576+/-0.037 $\chi^2$/NDF:937678.9/22

Right Out: 195.061+/-0.054 $\chi^2$/NDF: 1284879.9/18

Left In: 208.194+/-0.037 $\chi^2$/NDF:1033963.0/20

Left: 214.721+/-0.026 $\chi^2$/NDF: 2036907.5/43

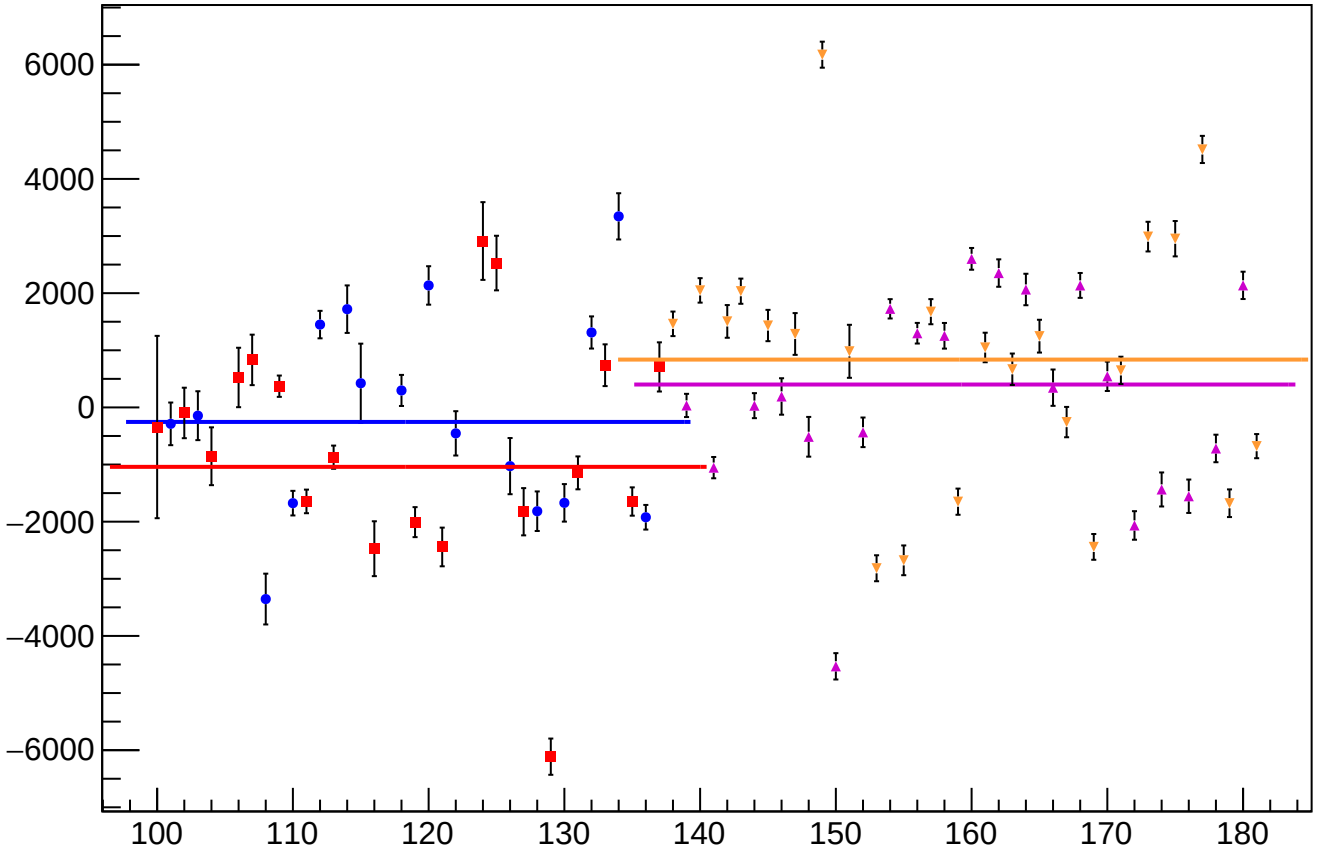
Right: 202.492+/-0.040 $\chi^2$/NDF: 2210941.3/34

In: 209.058+/-0.031 $\chi^2$/NDF:1920301.7/36

Out: 212.891+/-0.031 $\chi^2$/NDF:2386390.5/41

All: 210.990+/-0.022 $\chi^2$/NDF: 4314403.2/78

# asym_bpm0l06WS_mean vs Slug, Sign Corrected




Right In: -254.044+/-80.222 $\chi^2$/NDF: 432.1/15

Left Out: 837.276+/-52.075 $\chi^2$/NDF:1948.9/22

Right Out: -1040.361+/-73.363 $\chi^2$/NDF: 533.4/18

Left In: 400.761+/-50.709 $\chi^2$/NDF:1197.0/20

Left: 613.218+/-36.330 $\chi^2$/NDF: 3182.0/43

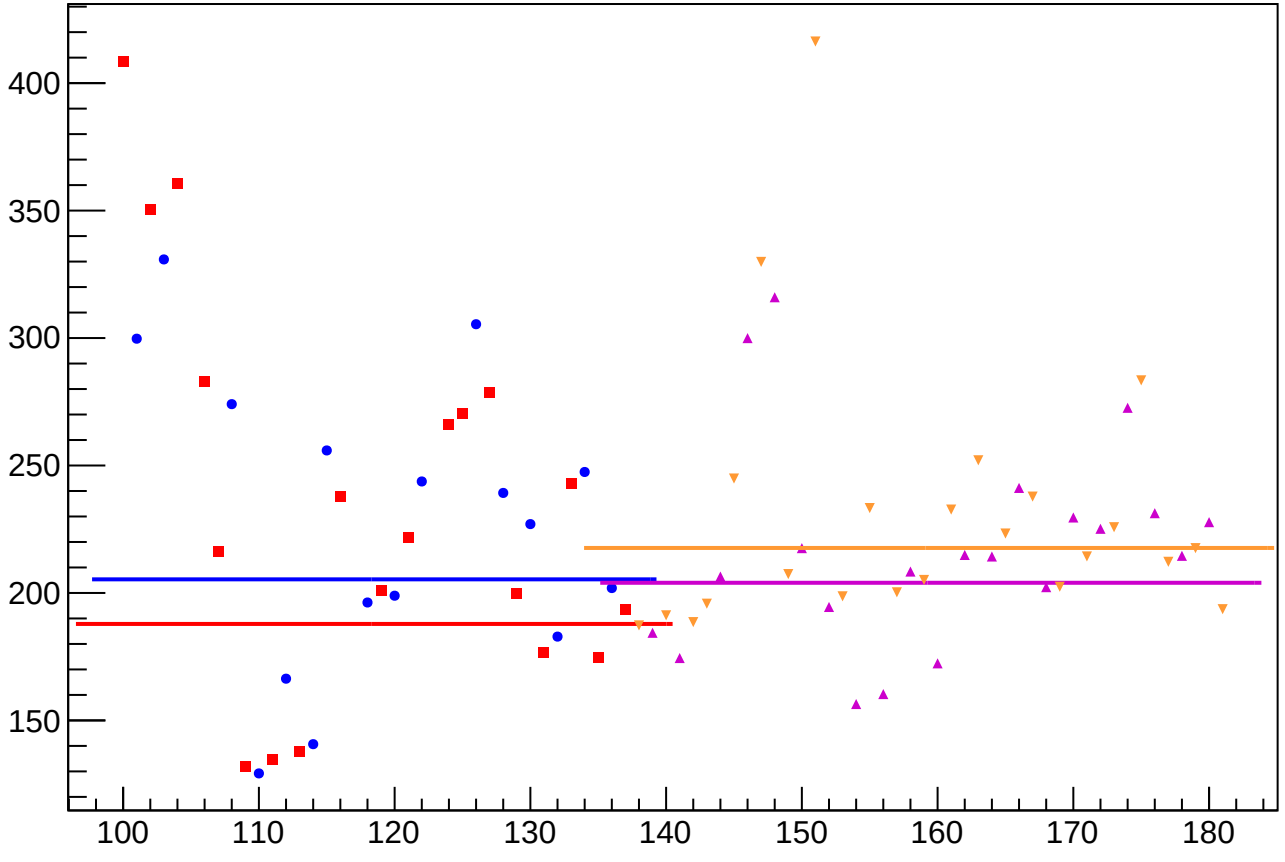
Right: -682.251+/-54.138 $\chi^2$/NDF: 1017.8/34

In: 213.824+/-42.863 $\chi^2$/NDF:1676.7/36

Out: 208.196+/-42.464 $\chi^2$/NDF:2917.9/41

All: 210.984+/-30.167 $\chi^2$/NDF: 4594.6/78

# asym_bpm0l06WS_rms vs Slug, Sign Corrected




Right In: 205.341+/-0.057 $\chi^2$/NDF: 877398.6/15

Left Out: 217.656+/-0.037 $\chi^2$/NDF:908139.5/22

Right Out: 187.848+/-0.052 $\chi^2$/NDF: 1337049.4/18

Left In: 203.995+/-0.036 $\chi^2$/NDF:1013753.4/20

Left: 210.644+/-0.026 $\chi^2$/NDF: 1992540.8/43

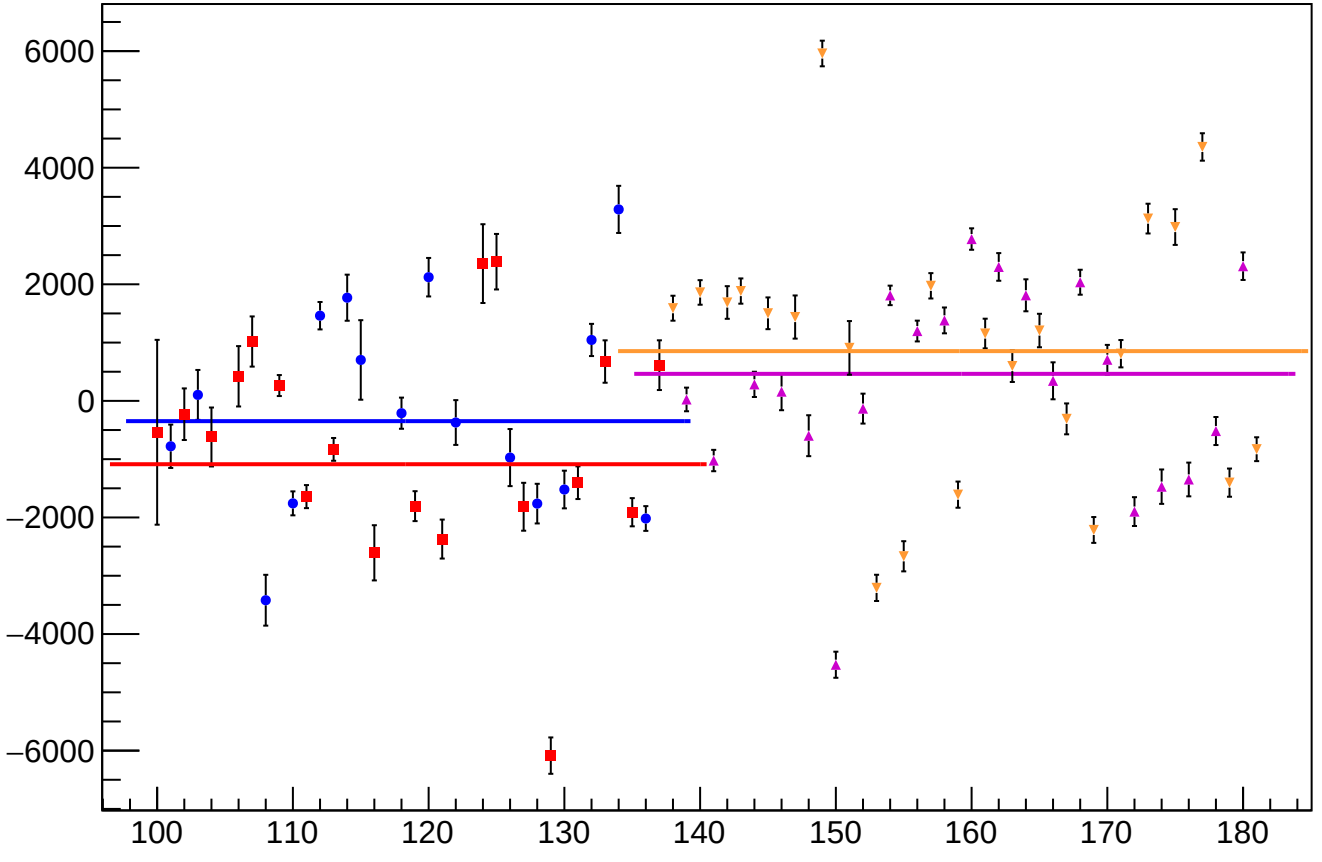
Right: 195.815+/-0.038 $\chi^2$/NDF: 2266235.0/34

In: 204.380+/-0.030 $\chi^2$/NDF:1891554.2/36

Out: 207.670+/-0.030 $\chi^2$/NDF:2464742.2/41

All: 206.040+/-0.021 $\chi^2$/NDF: 4362242.3/78

# asym_bpm0l07WS_mean vs Slug, Sign Corrected




Right In: -347.666+/-78.567 $\chi^2$/NDF: 445.8/15

Left Out: 853.548+/-51.369 $\chi^2$/NDF:1989.2/22

Right Out: -1086.638+/-71.539 $\chi^2$/NDF: 527.2/18

Left In: 463.627+/-50.074 $\chi^2$/NDF:1230.7/20

Left: 653.610+/-35.857 $\chi^2$/NDF: 3249.5/43

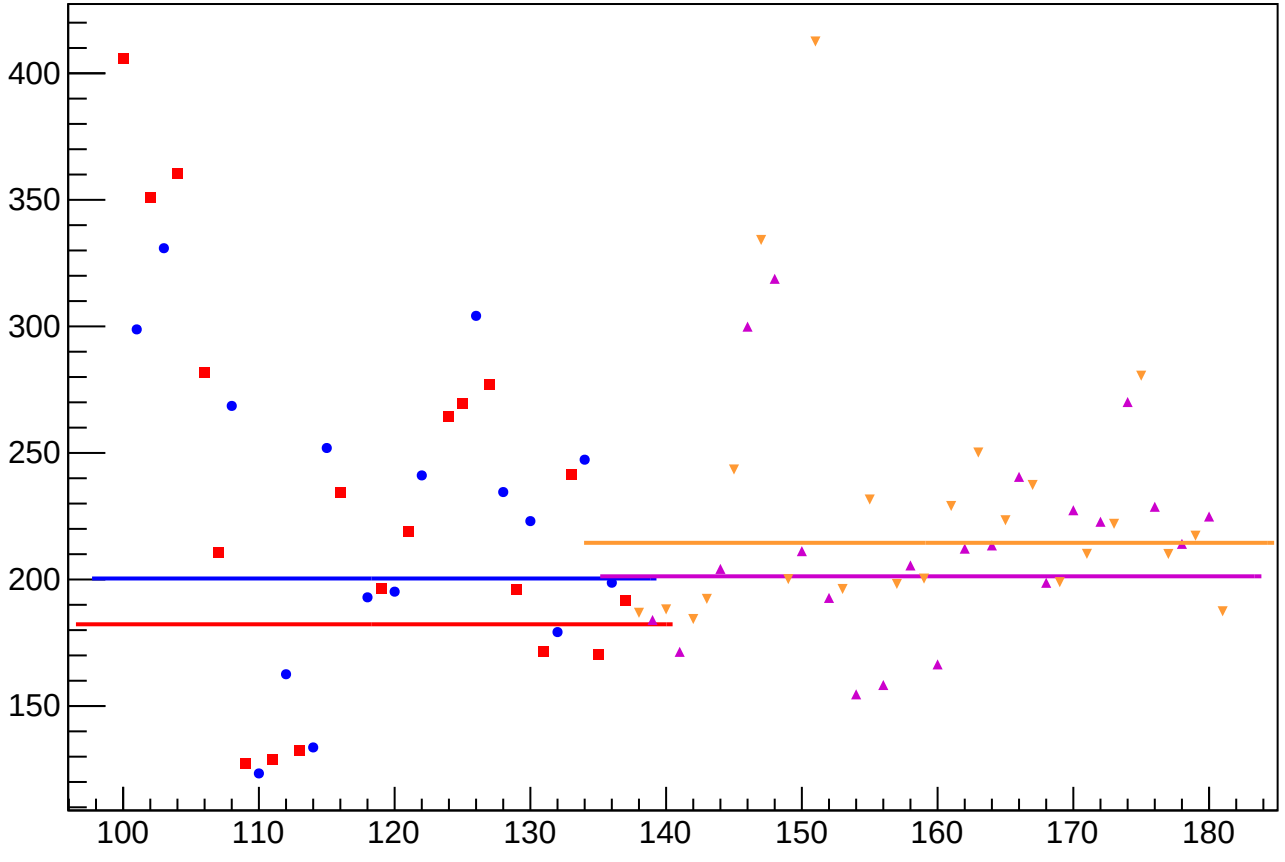
Right: -751.676+/-52.896 $\chi^2$/NDF: 1021.4/34

In: 229.271+/-42.227 $\chi^2$/NDF:1752.3/36

Out: 193.498+/-41.726 $\chi^2$/NDF:3001.7/41

All: 211.171+/-29.680 $\chi^2$/NDF: 4754.4/78

# asym_bpm0l07WS_rms vs Slug, Sign Corrected




Right In: 200.399+/-0.056 $\chi^2$/NDF: 959000.8/15

Left Out: 214.493+/-0.036 $\chi^2$/NDF:958464.9/22

Right Out: 182.302+/-0.051 $\chi^2$/NDF: 1447197.0/18

Left In: 201.260+/-0.035 $\chi^2$/NDF:1061500.4/20

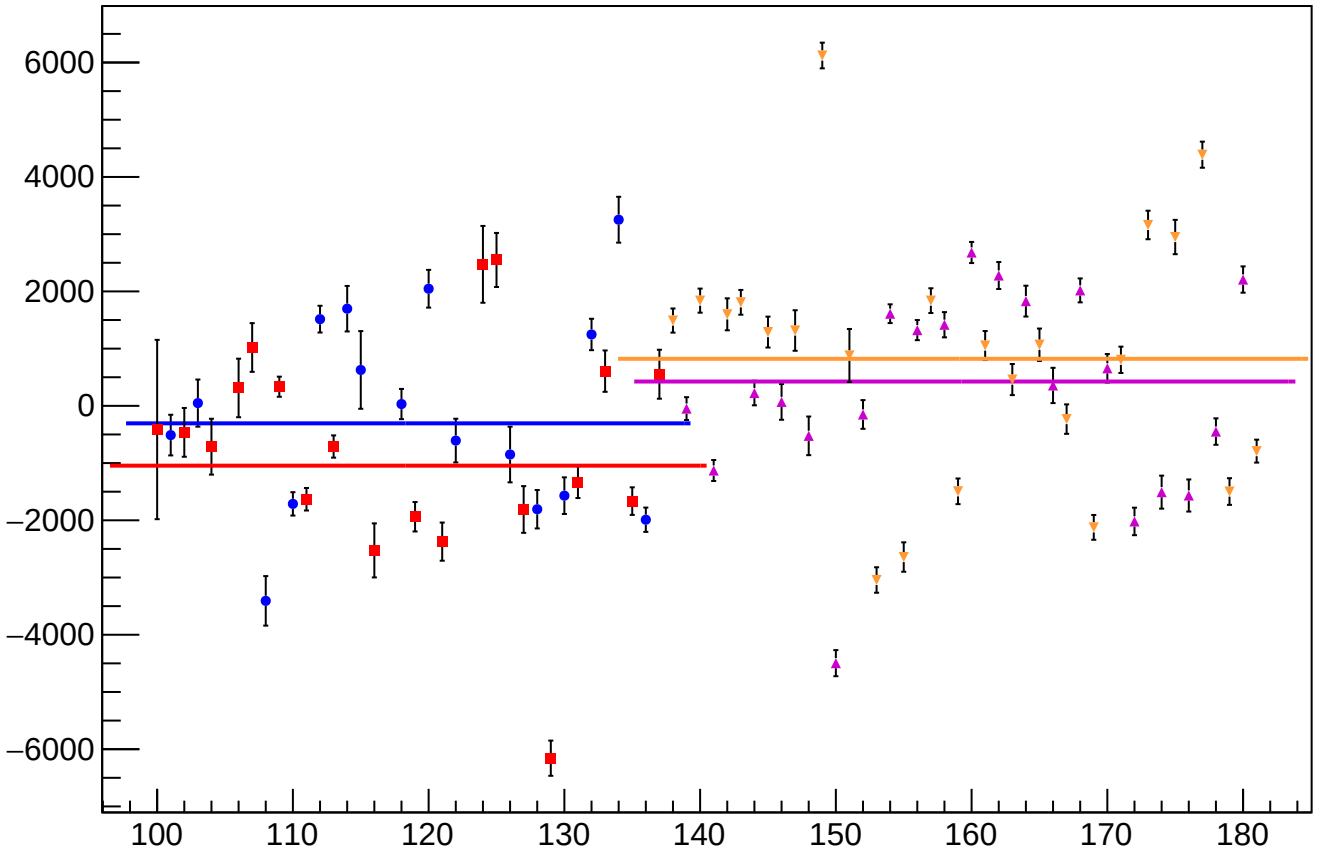
Left: 207.708+/-0.025 $\chi^2$/NDF: 2088024.1/43

Right: 190.505+/-0.037 $\chi^2$/NDF: 2464212.0/34

In: 201.011+/-0.030 $\chi^2$/NDF:2020672.0/36

Out: 203.542+/-0.030 $\chi^2$/NDF:2672868.5/41

All: 202.292+/-0.021 $\chi^2$/NDF: 4697174.6/78




Right In: -305.649+/-77.868 $\chi^2$/NDF: 451.8/15

Left Out: 822.243+/-50.716 $\chi^2$/NDF:1989.0/22

Right Out: -1045.144+/-70.824 $\chi^2$/NDF: 552.2/18

Left In: 425.149+/-49.315 $\chi^2$/NDF:1227.1/20

Left: 618.134+/-35.356 $\chi^2$/NDF: 3247.6/43

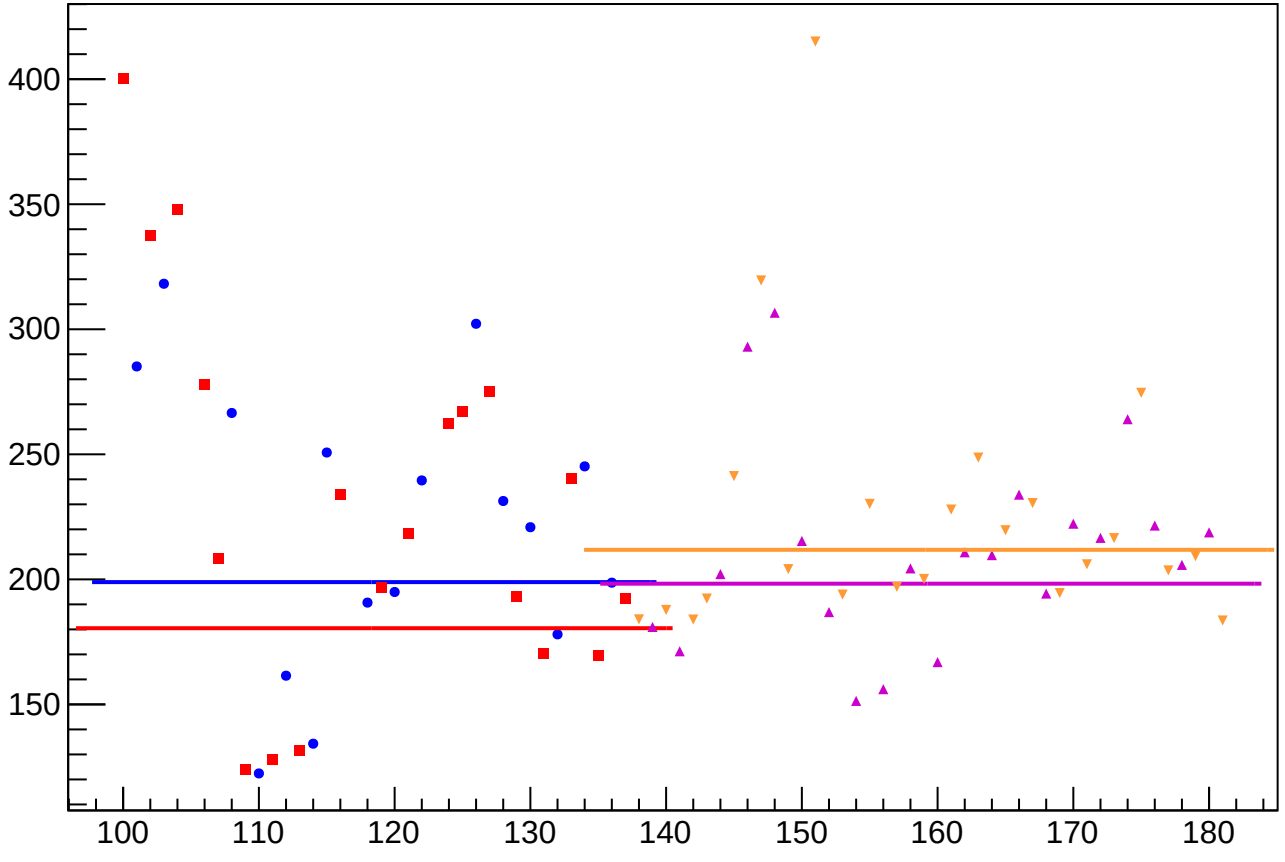
Right: -710.354+/-52.394 $\chi^2$/NDF: 1053.3/34

In: 215.948+/-41.662 $\chi^2$/NDF:1741.8/36

Out: 189.260+/-41.234 $\chi^2$/NDF:3000.7/41

All: 202.466+/-29.307 $\chi^2$/NDF: 4742.7/78

# asym_bpm0l08WS_rms vs Slug, Sign Corrected




Right In: 198.903+/-0.055 $\chi^2$/NDF: 912765.0/15

Left Out: 211.819+/-0.036 $\chi^2$/NDF:933585.2/22

Right Out: 180.473+/-0.050 $\chi^2$/NDF: 1434435.8/18

Left In: 198.274+/-0.035 $\chi^2$/NDF:1005348.9/20

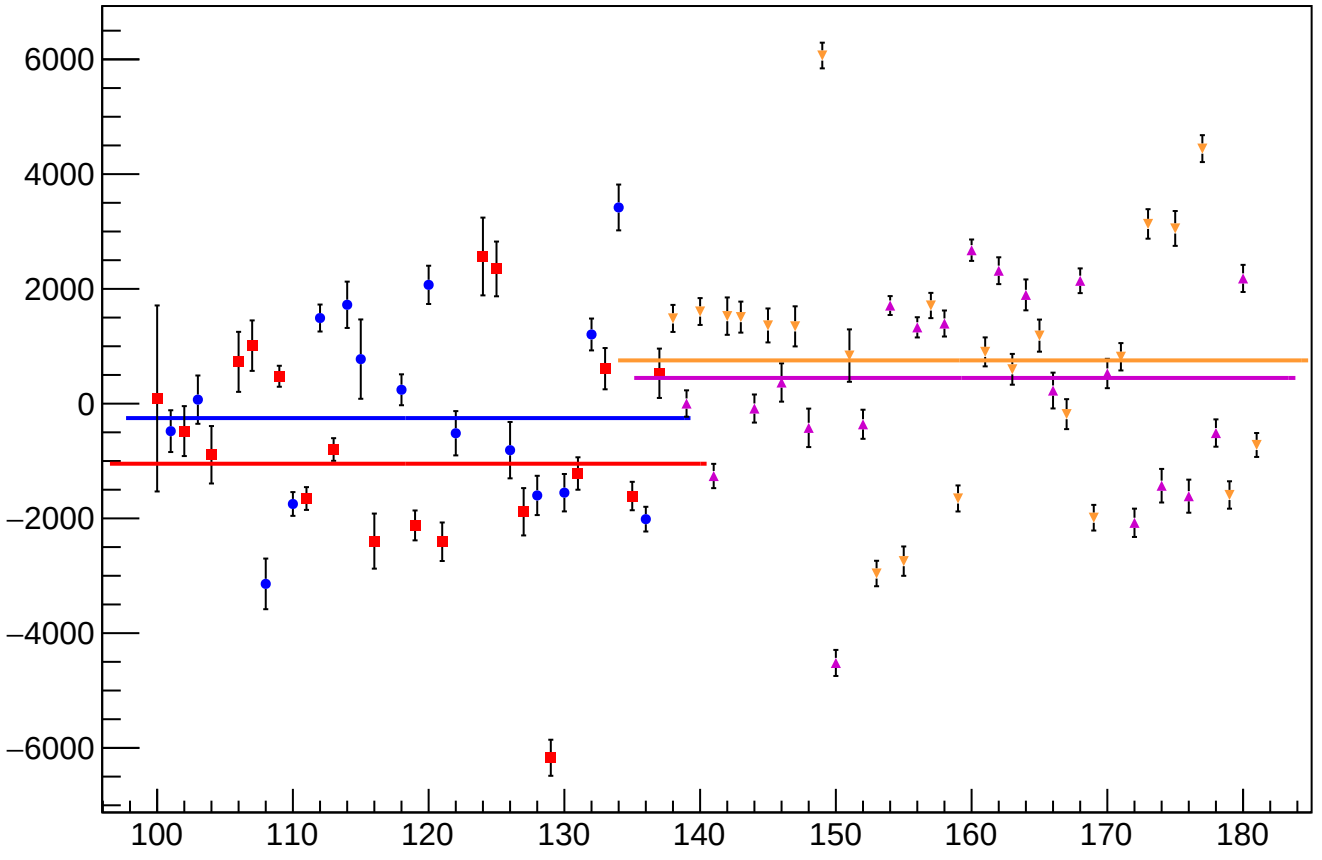
Left: 204.857+/-0.025 $\chi^2$/NDF: 2012253.0/43

Right: 188.816+/-0.037 $\chi^2$/NDF: 2408514.3/34

In: 198.454+/-0.029 $\chi^2$/NDF:1918206.8/36

Out: 201.193+/-0.029 $\chi^2$/NDF:2626996.1/41

All: 199.838+/-0.021 $\chi^2$/NDF: 4549570.1/78




Right In: -251.795+/-78.974 $\chi^2$/NDF: 441.2/15

Left Out: 753.665+/-52.802 $\chi^2$/NDF:1908.1/22

Right Out: -1047.132+/-72.190 $\chi^2$/NDF: 546.7/18

Left In: 447.808+/-51.113 $\chi^2$/NDF:1235.1/20

Left: 595.766+/-36.725 $\chi^2$/NDF: 3160.5/43

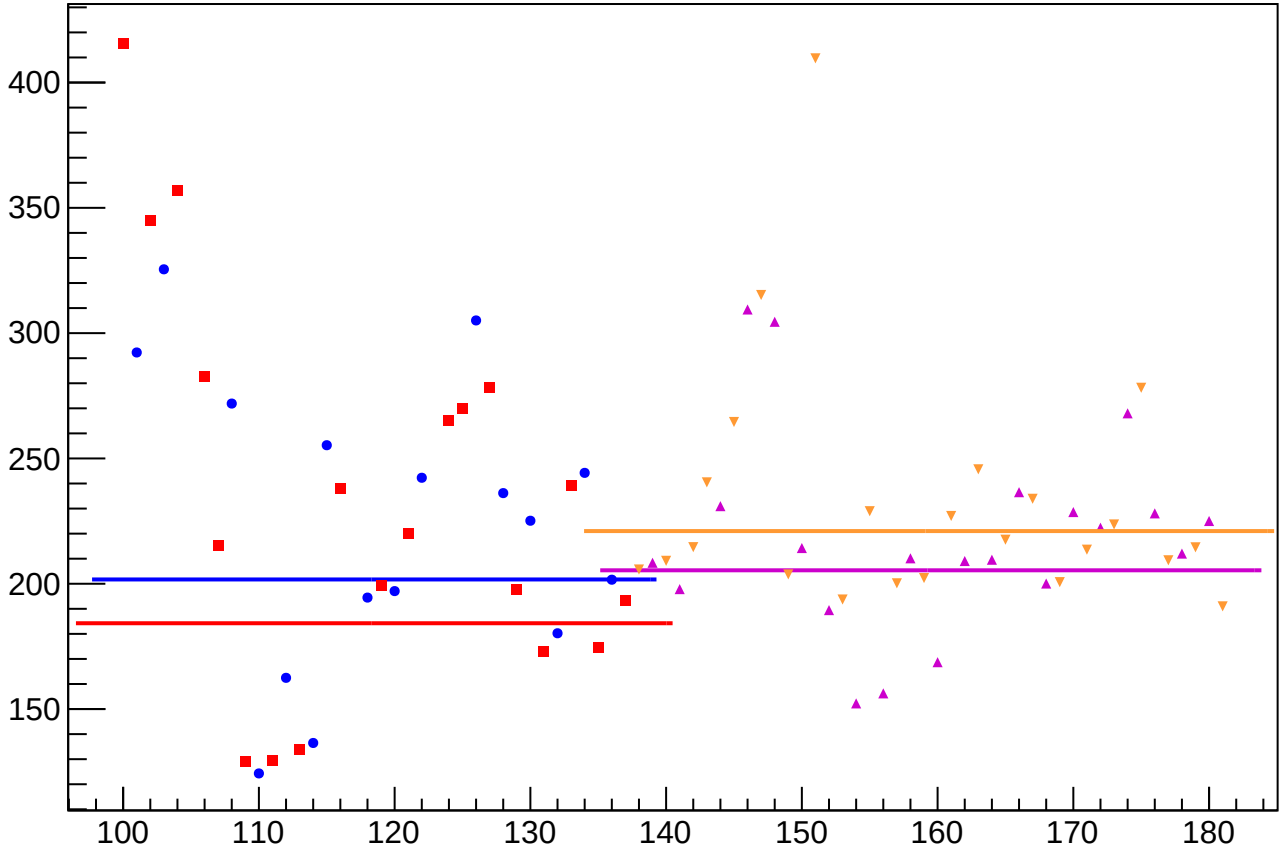
Right: -685.086+/-53.283 $\chi^2$/NDF: 1043.2/34

In: 241.272+/-42.910 $\chi^2$/NDF:1731.6/36

Out: 126.029+/-42.619 $\chi^2$/NDF:2860.2/41

All: 183.258+/-30.238 $\chi^2$/NDF: 4595.5/78

# asym_bpm0l09WS_rms vs Slug, Sign Corrected




Right In: 201.714+/-0.056 $\chi^2$/NDF: 924210.1/15

Left Out: 221.019+/-0.037 $\chi^2$/NDF:791004.5/22

Right Out: 184.244+/-0.051 $\chi^2$/NDF: 1403761.8/18

Left In: 205.369+/-0.036 $\chi^2$/NDF:1013799.6/20

Left: 212.940+/-0.026 $\chi^2$/NDF: 1895512.0/43

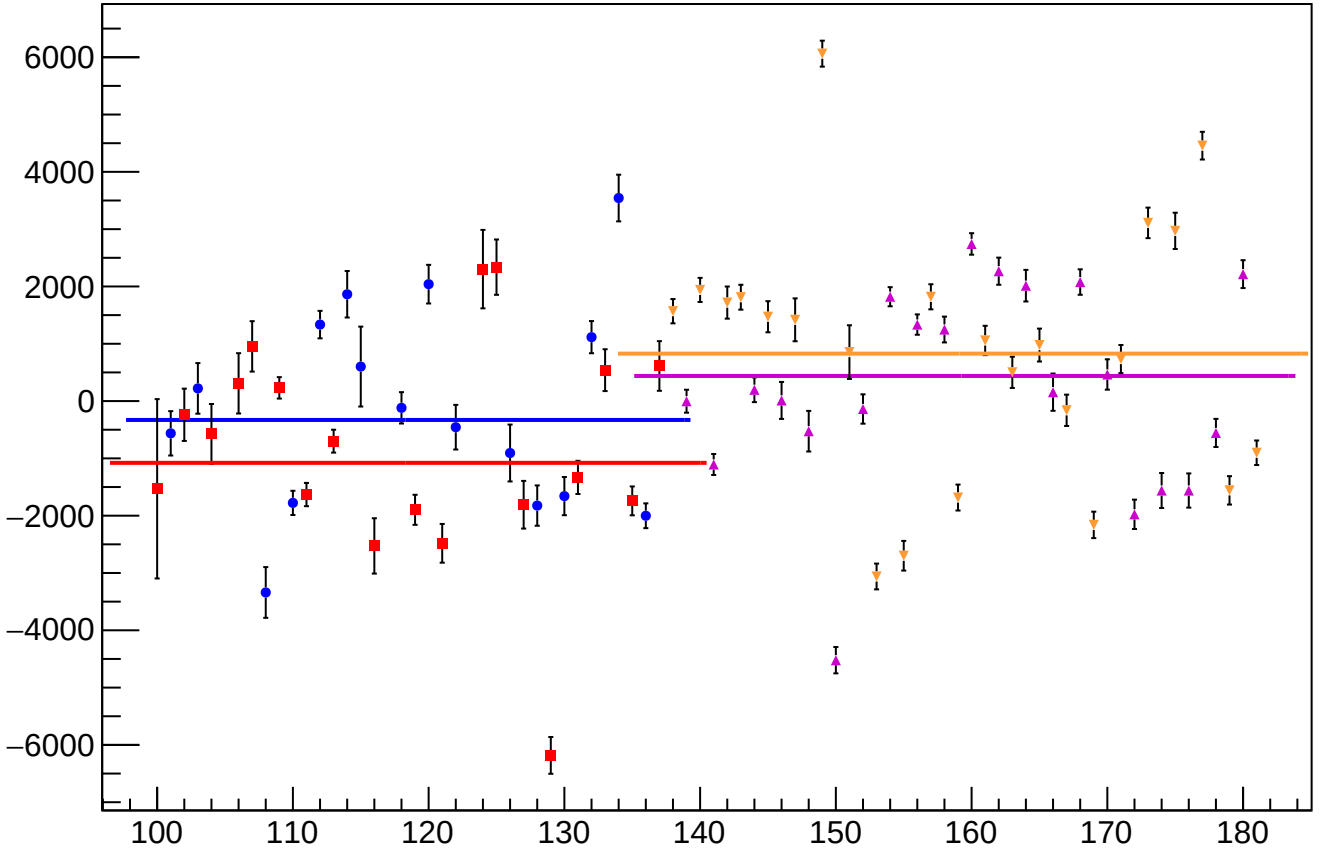
Right: 192.196+/-0.038 $\chi^2$/NDF: 2381288.1/34

In: 204.290+/-0.030 $\chi^2$/NDF:1941029.3/36

Out: 208.202+/-0.030 $\chi^2$/NDF:2532897.2/41

All: 206.259+/-0.021 $\chi^2$/NDF: 4482295.5/78

# asym_bpm0l10WS_mean vs Slug, Sign Corrected




Right In: -329.377+/-80.367 $\chi^2$/NDF: 436.4/15

Left Out: 828.079+/-52.158 $\chi^2$/NDF:1926.2/22

Right Out: -1077.876+/-73.404 $\chi^2$/NDF: 502.0/18

Left In: 438.186+/-50.674 $\chi^2$/NDF:1208.3/20

Left: 627.505+/-36.345 $\chi^2$/NDF: 3163.2/43

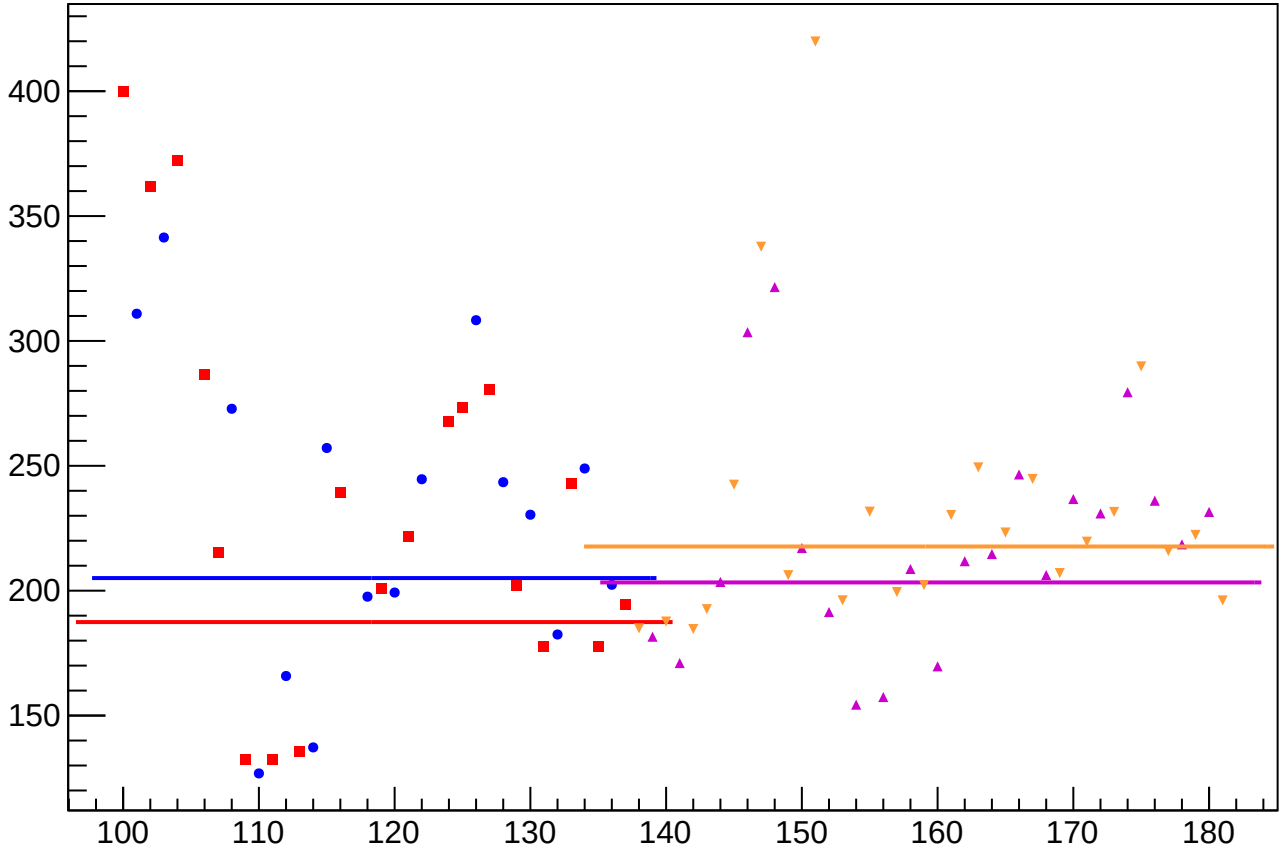
Right: -737.449+/-54.199 $\chi^2$/NDF: 985.7/34

In: 219.836+/-42.865 $\chi^2$/NDF:1709.9/36

Out: 188.625+/-42.518 $\chi^2$/NDF:2876.2/41

All: 204.104+/-30.186 $\chi^2$/NDF: 4586.4/78

# asym_bpm0l10WS_rms vs Slug, Sign Corrected




Right In: 205.053+/-0.057 $\chi^2$/NDF: 963052.0/15

Left Out: 217.693+/-0.037 $\chi^2$/NDF:978078.8/22

Right Out: 187.431+/-0.052 $\chi^2$/NDF: 1410802.2/18

Left In: 203.306+/-0.036 $\chi^2$/NDF:1163681.7/20

Left: 210.292+/-0.026 $\chi^2$/NDF: 2220032.7/43

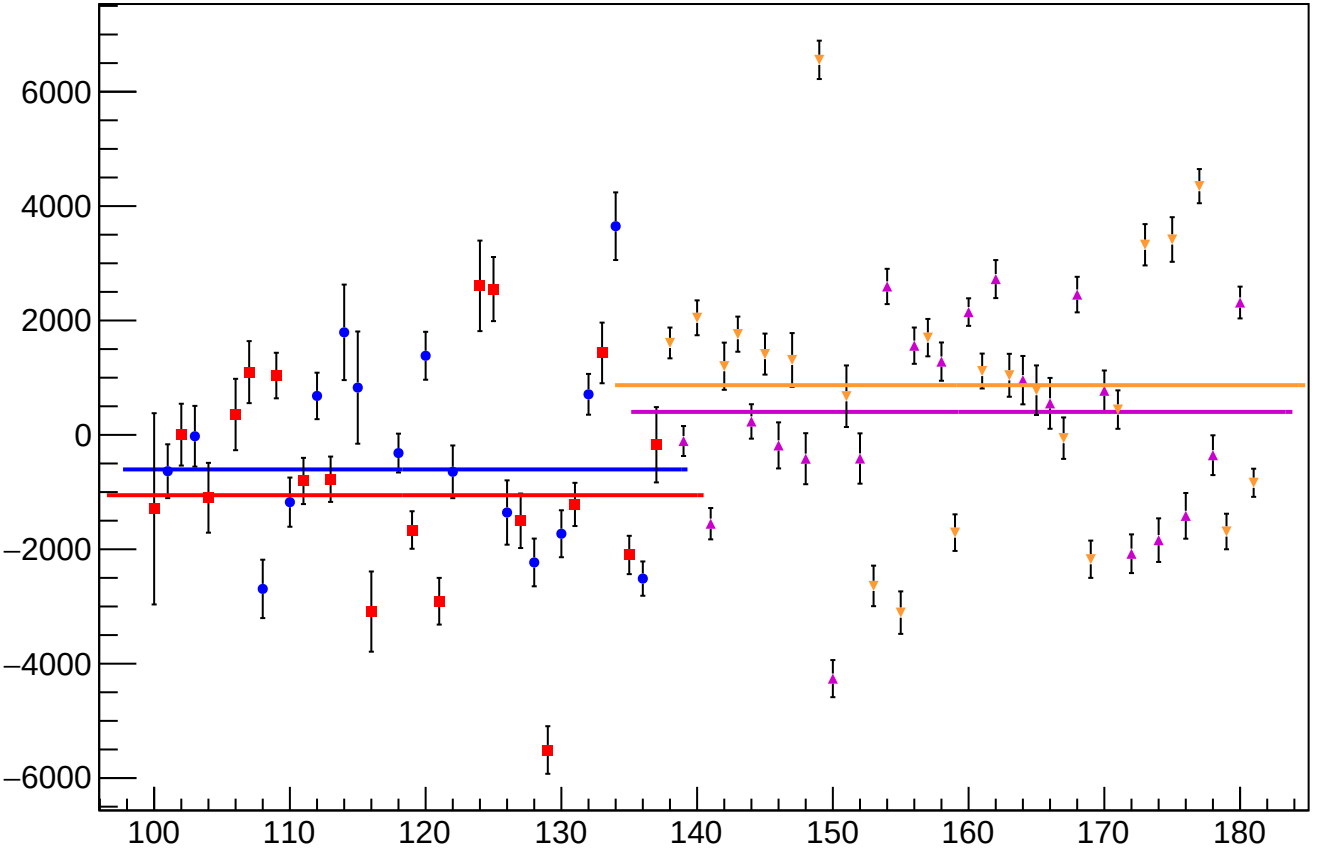
Right: 195.446+/-0.038 $\chi^2$/NDF: 2426275.9/34

In: 203.803+/-0.030 $\chi^2$/NDF:2127409.5/36

Out: 207.540+/-0.030 $\chi^2$/NDF:2614751.5/41

All: 205.687+/-0.021 $\chi^2$/NDF: 4749821.9/78

# asym_bpm0r03WS_mean vs Slug, Sign Corrected




Right In: -603.855+/-110.693 $\chi^2$/NDF: 193.5/15

Left Out: 869.098+/-70.462 $\chi^2$/NDF:1043.1/22

Right Out: -1054.556+/-108.264 $\chi^2$/NDF: 297.7/18

Left In: 401.963+/-72.079 $\chi^2$/NDF:649.9/20

Left: 640.830+/-50.386 $\chi^2$/NDF: 1714.5/43

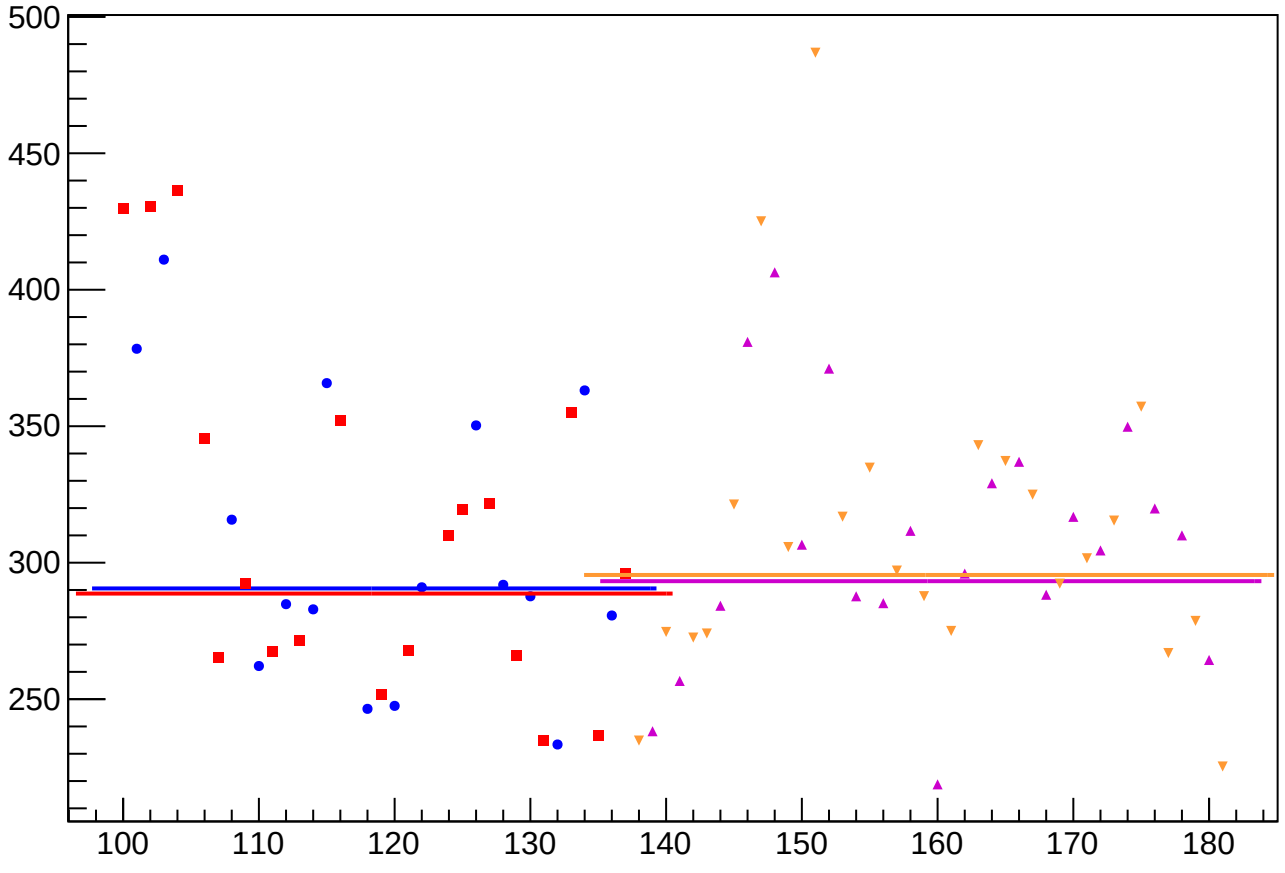
Right: -834.205+/-77.398 $\chi^2$/NDF: 499.7/34

In: 102.472+/-60.402 $\chi^2$/NDF:901.5/36

Out: 296.719+/-59.056 $\chi^2$/NDF:1562.6/41

All: 201.785+/-42.227 $\chi^2$/NDF: 2469.3/78

# asym_bpm0r03WS_rms vs Slug, Sign Corrected




Right In: 290.566+/-0.078 $\chi^2$/NDF: 359807.1/15

Left Out: 295.503+/-0.050 $\chi^2$/NDF:891380.9/22

Right Out: 288.686+/-0.077 $\chi^2$/NDF: 489094.8/18

Left In: 293.229+/-0.051 $\chi^2$/NDF:738621.3/20

Left: 294.391+/-0.036 $\chi^2$/NDF: 1631020.4/43

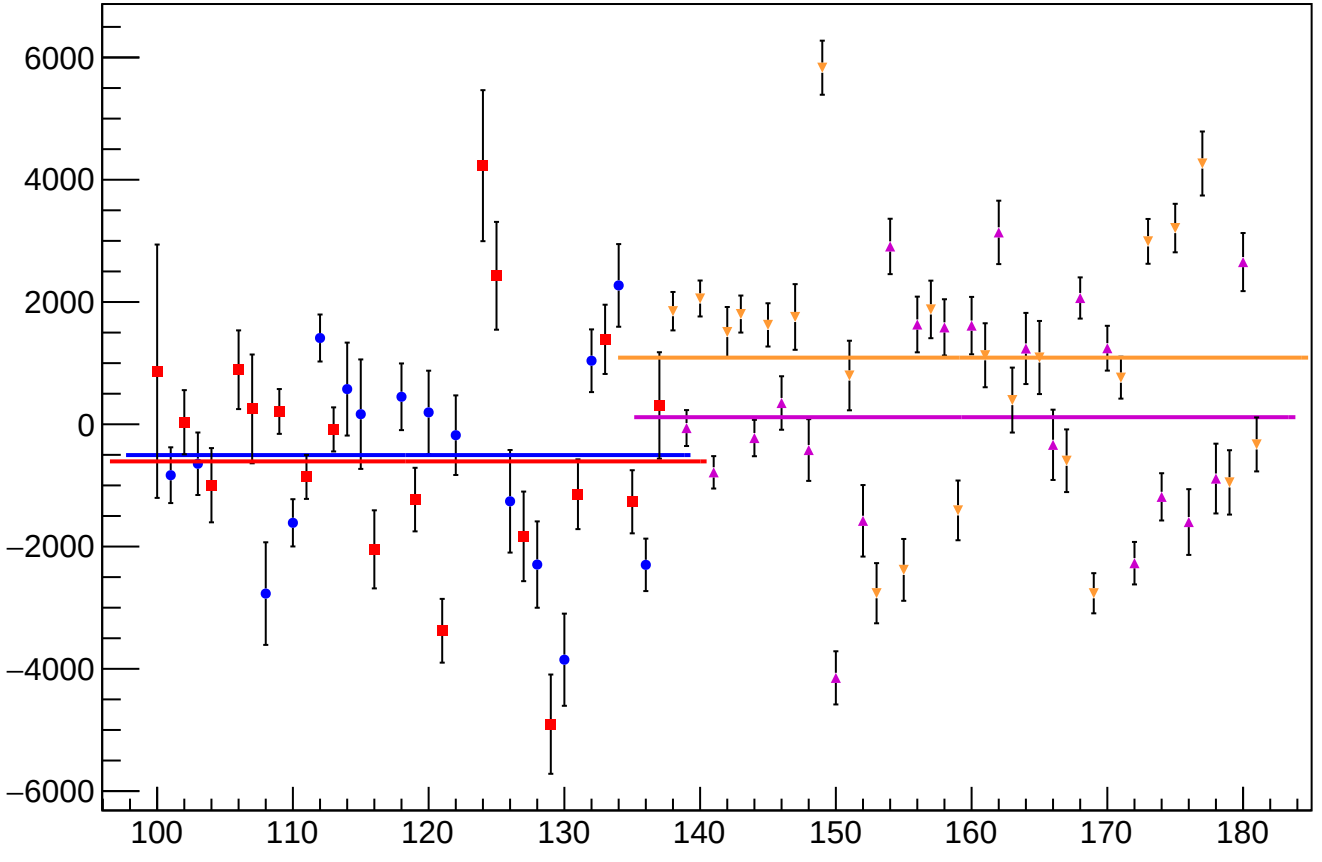
Right: 289.605+/-0.055 $\chi^2$/NDF: 849196.8/34

In: 292.436+/-0.043 $\chi^2$/NDF:1099240.8/36

Out: 293.474+/-0.042 $\chi^2$/NDF:1386045.7/41

All: 292.967+/-0.030 $\chi^2$/NDF: 2485588.9/78

# asym_bpm0r05WS_mean vs Slug, Sign Corrected




Right In: -503.675+/-140.058 $\chi^2$/NDF: 118.2/15

Left Out: 1090.203+/-86.809 $\chi^2$/NDF:548.4/22

Right Out: -606.880+/-129.609 $\chi^2$/NDF: 125.1/18

Left In: 116.033+/-89.347 $\chi^2$/NDF:370.2/20

Left: 617.153+/-62.261 $\chi^2$/NDF: 979.8/43

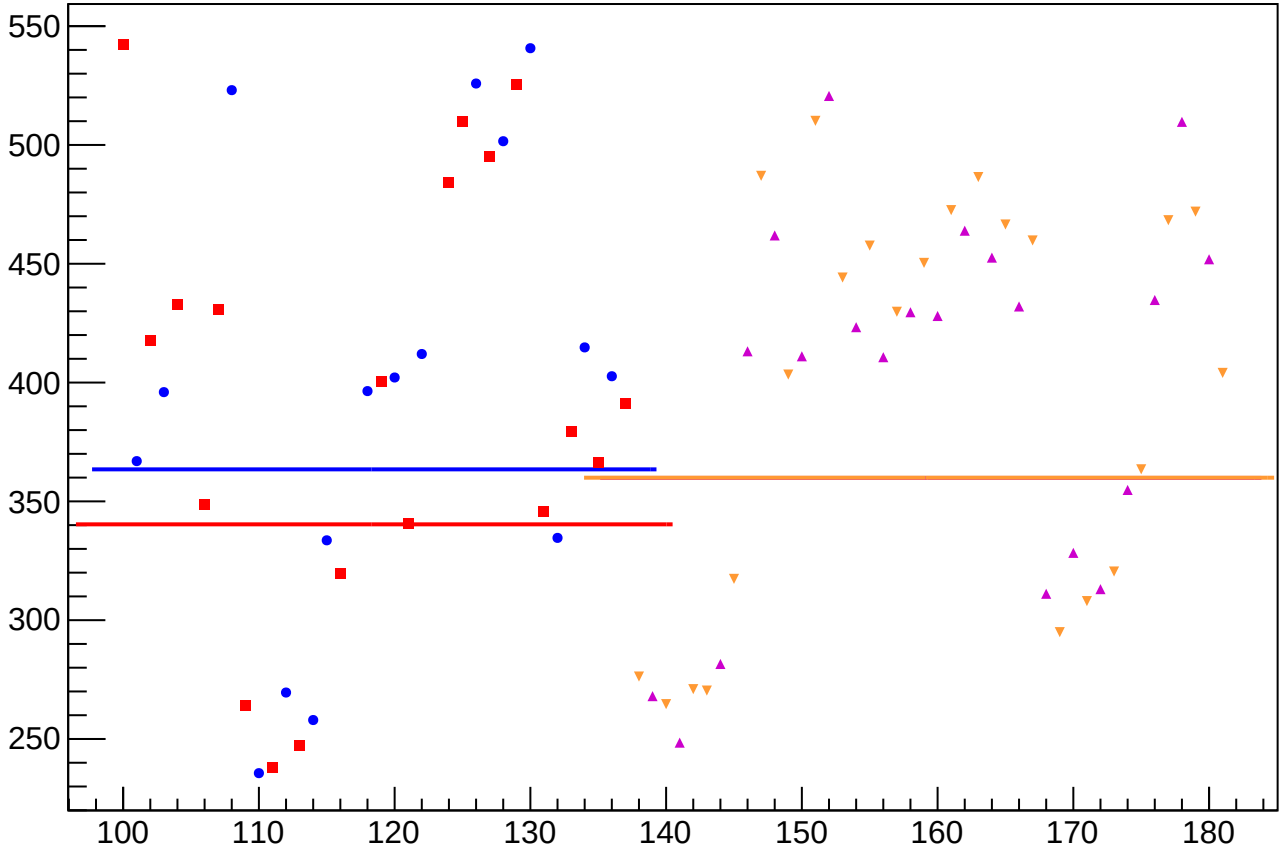
Right: -559.271+/-95.127 $\chi^2$/NDF: 243.7/34

In: -63.215+/-75.325 $\chi^2$/NDF:502.3/36

Out: 564.651+/-72.126 $\chi^2$/NDF:791.9/41

All: 264.336+/-52.095 $\chi^2$/NDF: 1330.5/78

# asym_bpm0r05WS_rms vs Slug, Sign Corrected




Right In: 363.471+/-0.099 $\chi^2$/NDF: 780893.2/15

Left Out: 359.961+/-0.061 $\chi^2$/NDF:1855613.4/22

Right Out: 340.332+/-0.092 $\chi^2$/NDF: 856230.3/18

Left In: 359.861+/-0.063 $\chi^2$/NDF:1636990.4/20

Left: 359.912+/-0.044 $\chi^2$/NDF: 3492605.0/43

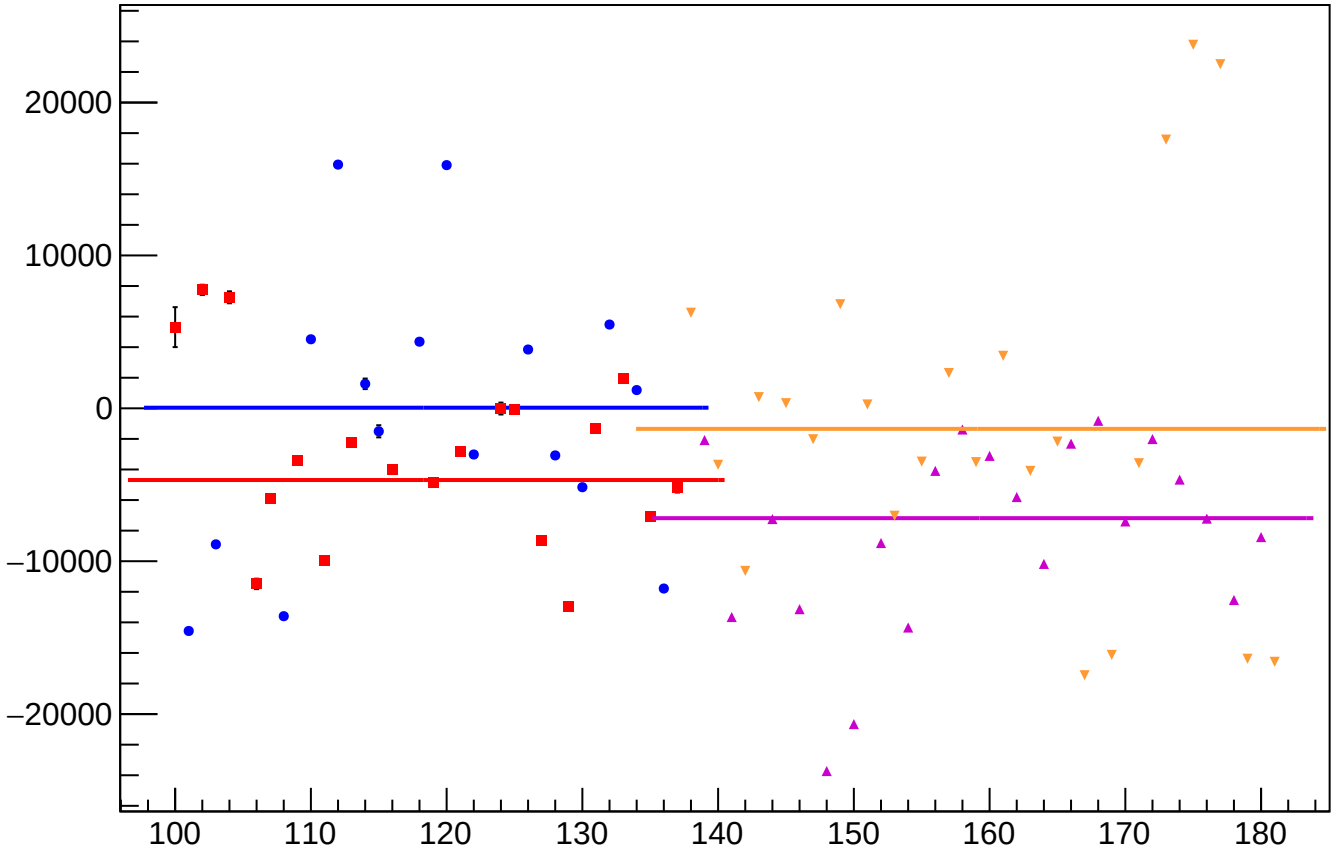
Right: 351.006+/-0.067 $\chi^2$/NDF: 1666529.8/34

In: 360.905+/-0.053 $\chi^2$/NDF:2418828.1/36

Out: 353.882+/-0.051 $\chi^2$/NDF:2743509.6/41

All: 357.241+/-0.037 $\chi^2$/NDF: 5171407.1/78

# asym_bpm0i02WS_mean vs Slug, Sign Corrected




Right In: 40.915+/-54.199 $\chi^2$/NDF: 30786.3/15

Left Out: -1342.963+/-41.556 $\chi^2$/NDF:61953.5/22

Right Out: -4689.710+/-52.095 $\chi^2$/NDF: 7795.7/18

Left In: -7184.077+/-43.337 $\chi^2$/NDF:18197.5/20

Left: -4141.050+/-29.994 $\chi^2$/NDF: 89615.4/43

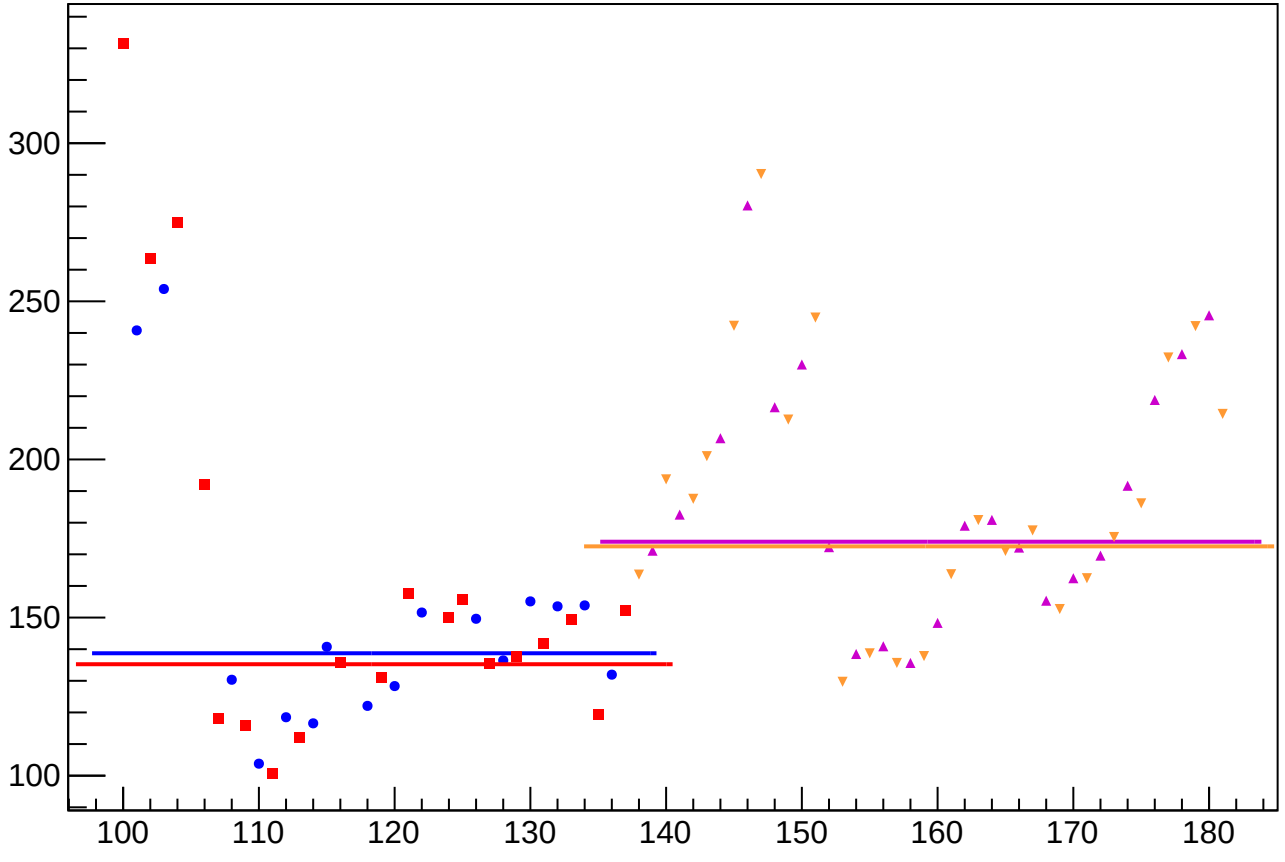
Right: -2417.983+/-37.558 $\chi^2$/NDF: 42541.9/34

In: -4366.331+/-33.847 $\chi^2$/NDF:59823.8/36

Out: -2644.419+/-32.486 $\chi^2$/NDF:72271.5/41

All: -3470.066+/-23.438 $\chi^2$/NDF: 133442.3/7

# asym_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 138.712+/-0.038 $\chi^2$/NDF: 657791.3/15

Left Out: 172.515+/-0.029 $\chi^2$/NDF:1508361.9/22

Right Out: 135.245+/-0.037 $\chi^2$/NDF: 890024.8/18

Left In: 173.984+/-0.031 $\chi^2$/NDF:1223691.1/20

Left: 173.218+/-0.021 $\chi^2$/NDF: 2733250.5/43

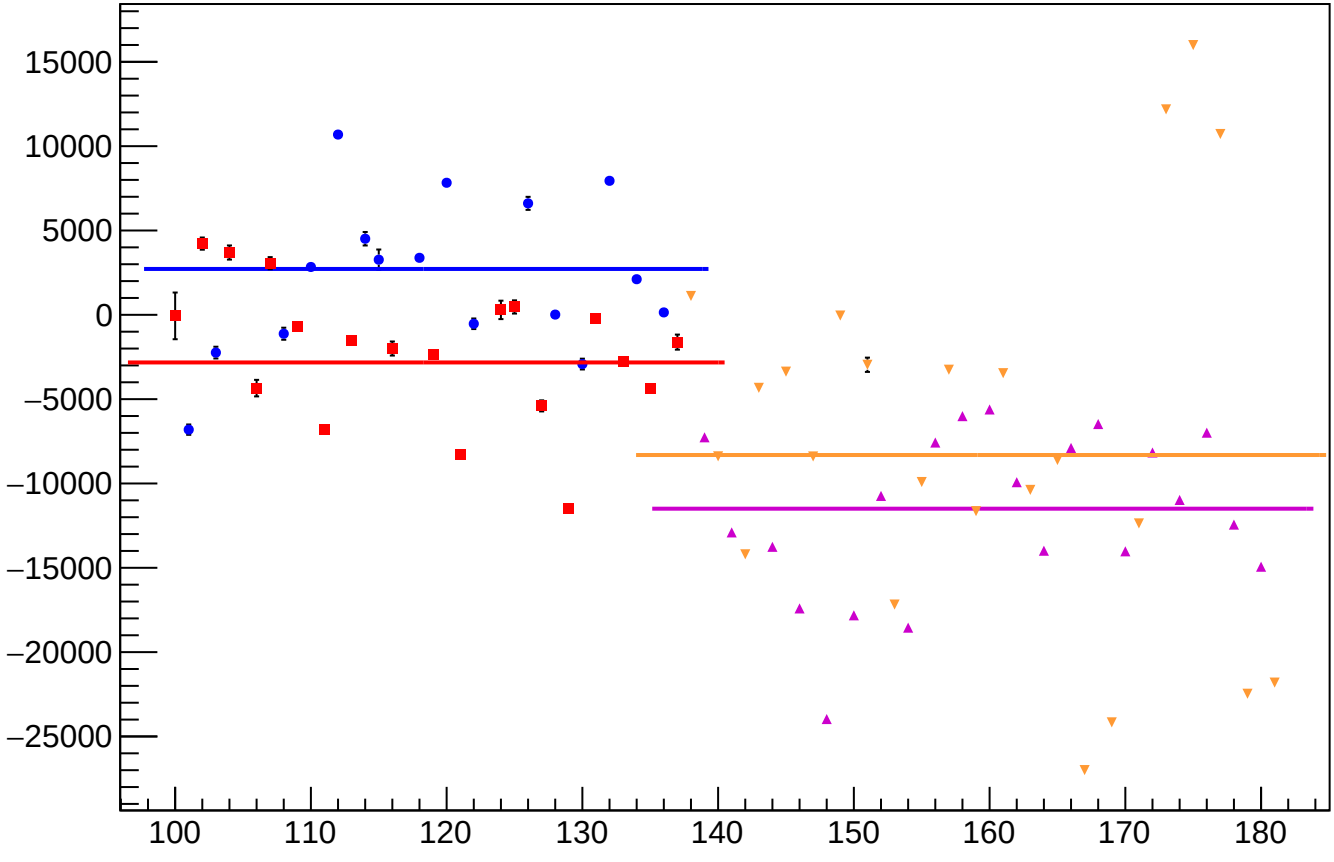
Right: 136.910+/-0.027 $\chi^2$/NDF: 1552069.4/34

In: 160.228+/-0.024 $\chi^2$/NDF:2398183.2/36

Out: 158.022+/-0.023 $\chi^2$/NDF:3023958.2/41

All: 159.079+/-0.017 $\chi^2$/NDF: 5426564.3/78

# asym_bpm0i02aWS_mean vs Slug, Sign Corrected




Right In: 2719.896+/-69.247 $\chi^2$/NDF: 4129.3/15

Left Out: -8312.319+/-47.083 $\chi^2$/NDF:55165.6/22

Right Out: -2823.679+/-64.850 $\chi^2$/NDF: 3062.8/18

Left In: -11494.868+/-45.463 $\chi^2$/NDF:11122.7/20

Left: -9959.282+/-32.705 $\chi^2$/NDF: 68652.8/43

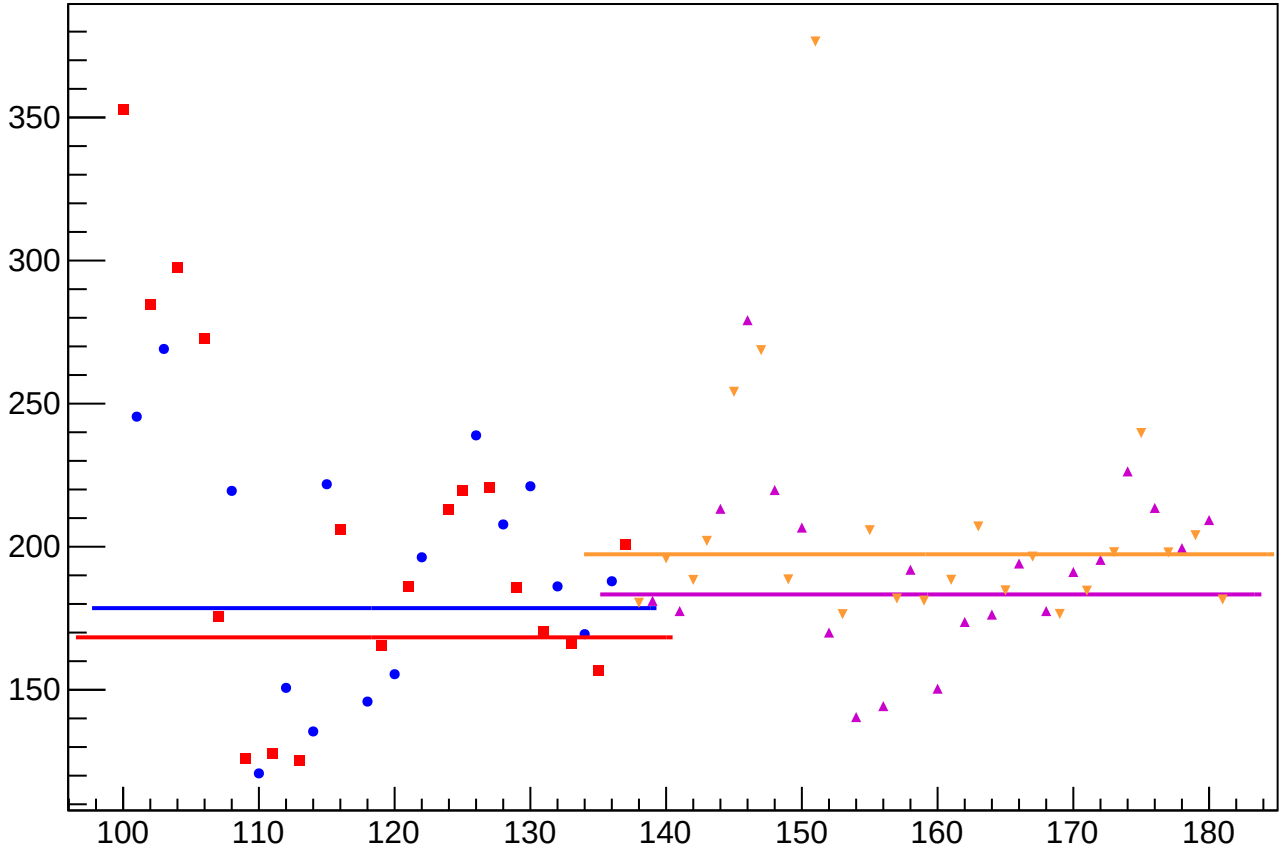
Right: -233.460+/-47.334 $\chi^2$/NDF: 10606.3/34

In: -7213.322+/-38.004 $\chi^2$/NDF:44698.2/36

Out: -6417.818+/-38.100 $\chi^2$/NDF:62919.1/41

All: -6816.573+/-26.907 $\chi^2$/NDF: 107835.8/7

# asym_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 178.541+/-0.049 $\chi^2$/NDF: 674566.0/15

Left Out: 197.355+/-0.033 $\chi^2$/NDF:731687.2/22

Right Out: 168.335+/-0.046 $\chi^2$/NDF: 979485.9/18

Left In: 183.332+/-0.032 $\chi^2$/NDF:822256.1/20

Left: 190.098+/-0.023 $\chi^2$/NDF: 1645755.8/43

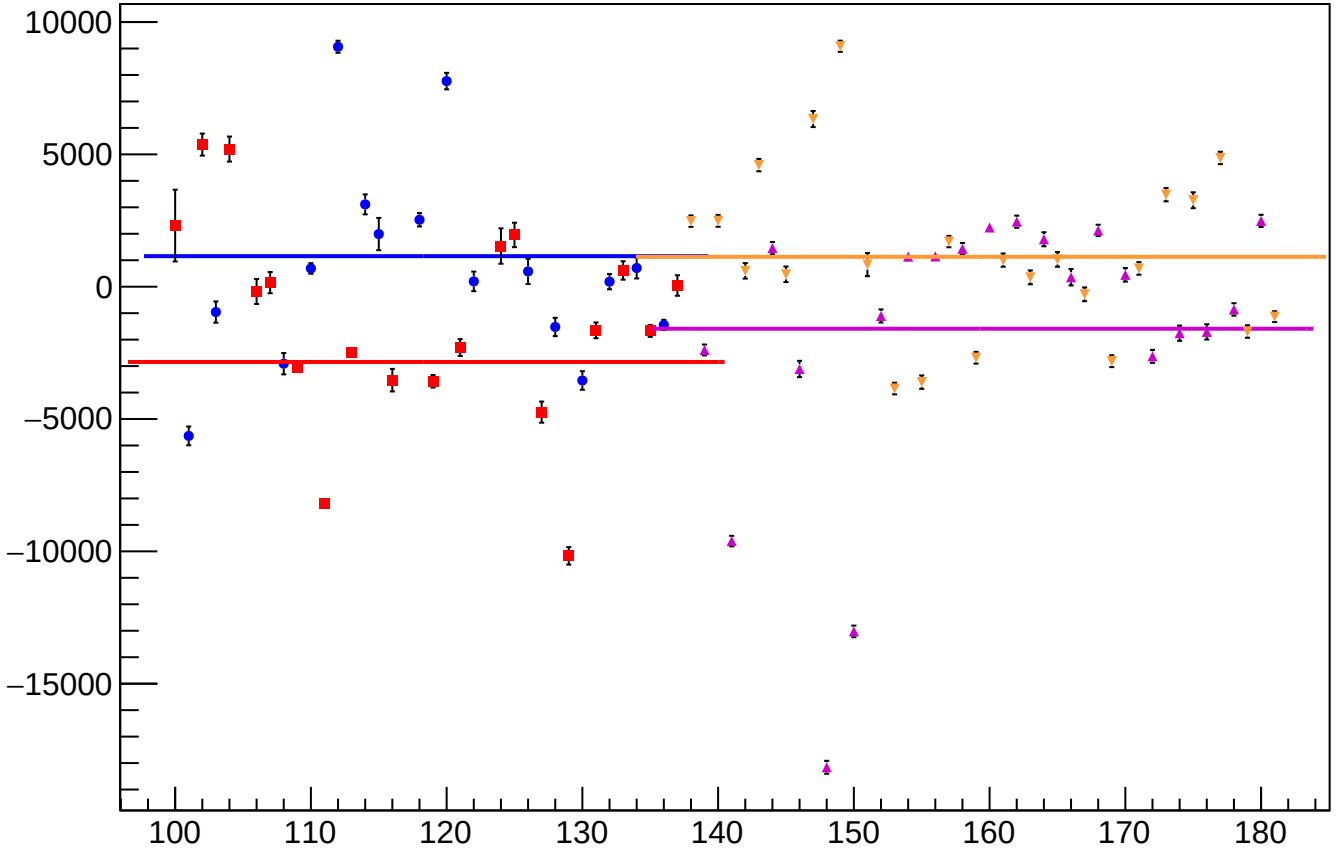
Right: 173.104+/-0.033 $\chi^2$/NDF: 1677198.9/34

In: 181.889+/-0.027 $\chi^2$/NDF:1503511.4/36

Out: 187.338+/-0.027 $\chi^2$/NDF:1973435.4/41

All: 184.606+/-0.019 $\chi^2$/NDF: 3497454.2/78

# asym_bpm0i05WS_mean vs Slug, Sign Corrected




Right In: 1153.823+/-75.957 $\chi^2$/NDF: 2655.3/15

Left Out: 1129.734+/-51.231 $\chi^2$/NDF:4182.1/22

Right Out: -2843.895+/-69.139 $\chi^2$/NDF: 2453.1/18

Left In: -1587.403+/-49.552 $\chi^2$/NDF:11432.6/20

Left: -274.095+/-35.617 $\chi^2$/NDF: 17068.0/43

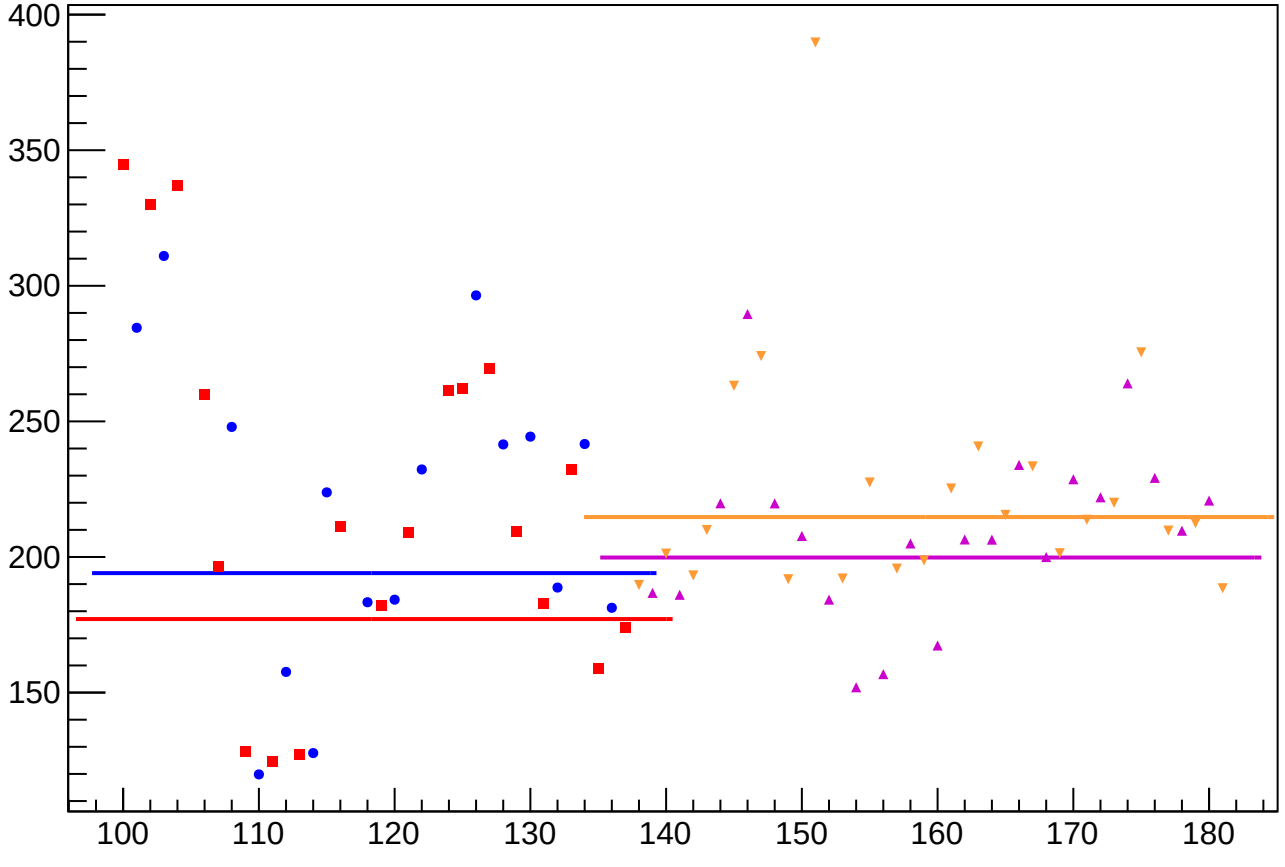
Right: -1032.468+/-51.129 $\chi^2$/NDF: 6623.4/34

In: -769.057+/-41.501 $\chi^2$/NDF:15001.6/36

Out: -278.707+/-41.162 $\chi^2$/NDF:8767.6/41

All: -521.870+/-29.225 $\chi^2$/NDF: 23839.6/78

# asym_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 194.053+/-0.054 $\chi^2$/NDF: 965786.1/15

Left Out: 214.723+/-0.036 $\chi^2$/NDF:725984.1/22

Right Out: 177.115+/-0.049 $\chi^2$/NDF: 1359345.8/18

Left In: 199.804+/-0.035 $\chi^2$/NDF:784823.8/20

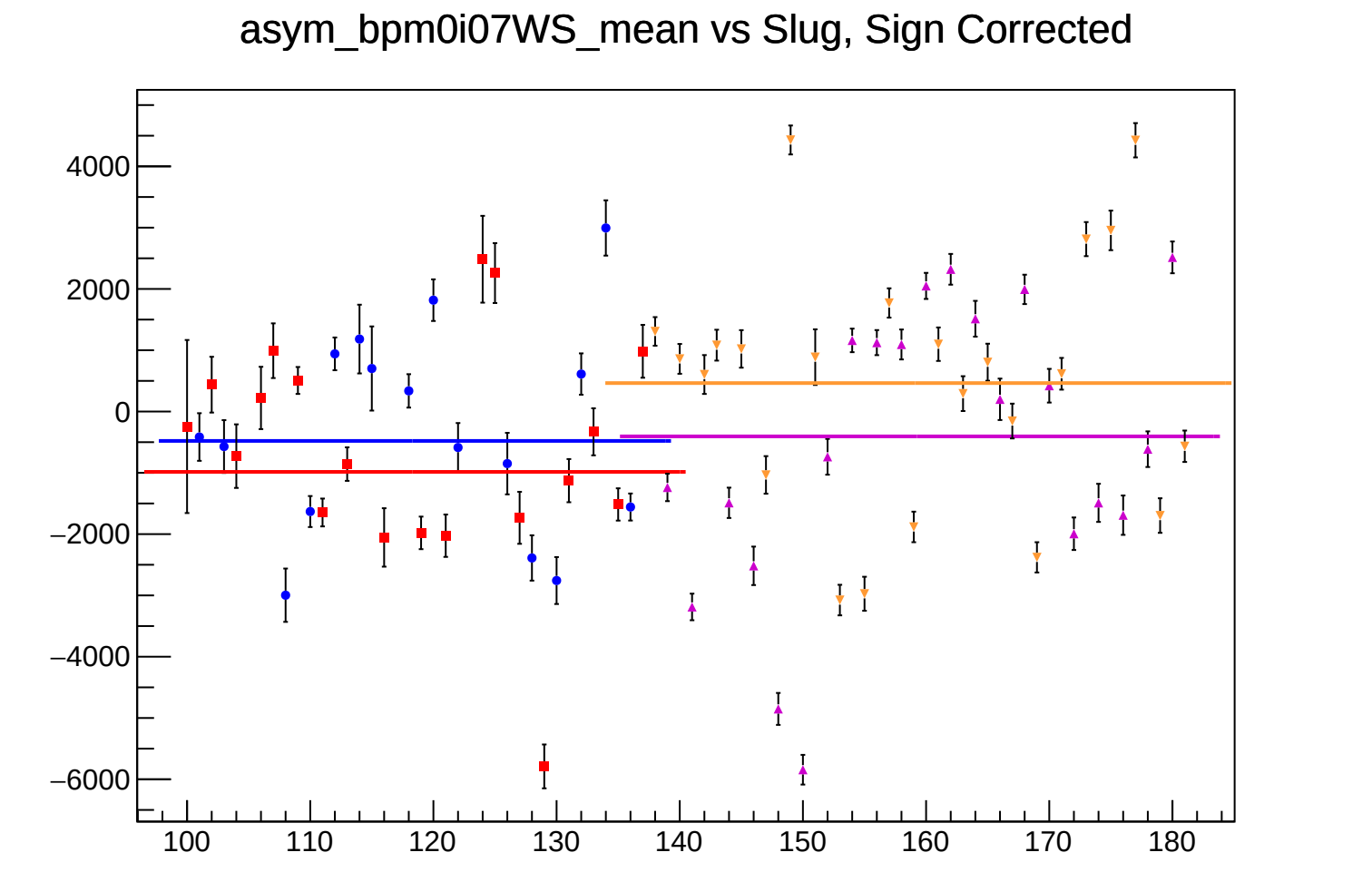
Left: 207.015+/-0.025 $\chi^2$/NDF: 1598434.4/43

Right: 184.790+/-0.036 $\chi^2$/NDF: 2379520.9/34

In: 198.087+/-0.029 $\chi^2$/NDF:1758652.8/36

Out: 201.393+/-0.029 $\chi^2$/NDF:2467337.4/41

All: 199.754+/-0.021 $\chi^2$/NDF: 4232386.9/78




Right In: -479.302+/-86.685 $\chi^2$/NDF: 305.4/15

Left Out: 464.310+/-56.662 $\chi^2$/NDF:1357.0/22

Right Out: -984.498+/-80.945 $\chi^2$/NDF: 398.1/18

Left In: -405.305+/-55.120 $\chi^2$/NDF:1798.1/20

Left: 17.504+/-39.510 $\chi^2$/NDF: 3276.1/43

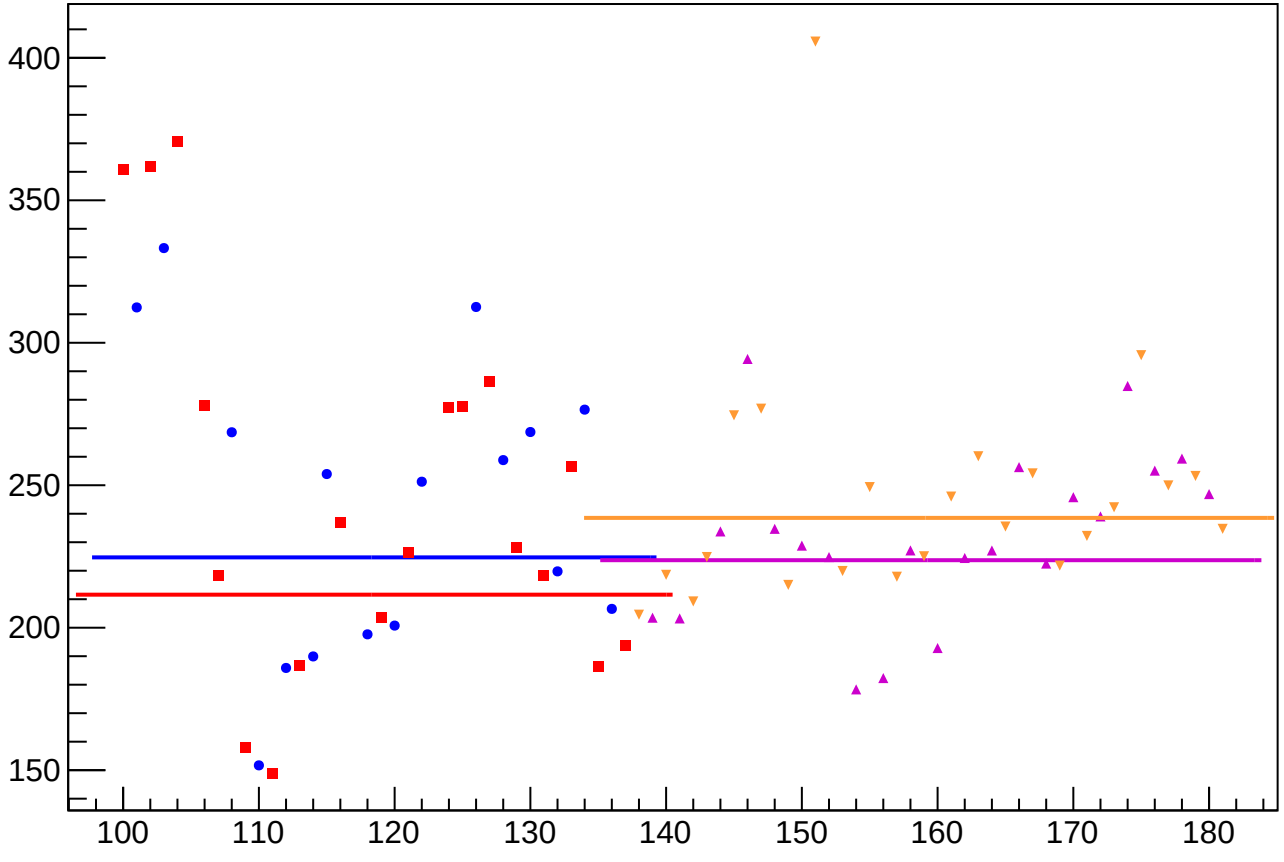
Right: -749.177+/-59.162 $\chi^2$/NDF: 721.7/34

In: -426.610+/-46.513 $\chi^2$/NDF:2104.1/36

Out: -12.150+/-46.419 $\chi^2$/NDF:1970.1/41

All: -218.963+/-32.857 $\chi^2$/NDF: 4114.0/78

# asym_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 224.683+/-0.061 $\chi^2$/NDF: 653193.4/15

Left Out: 238.543+/-0.040 $\chi^2$/NDF:566103.6/22

Right Out: 211.595+/-0.057 $\chi^2$/NDF: 932902.5/18

Left In: 223.694+/-0.039 $\chi^2$/NDF:560061.0/20

Left: 230.914+/-0.028 $\chi^2$/NDF: 1196740.2/43

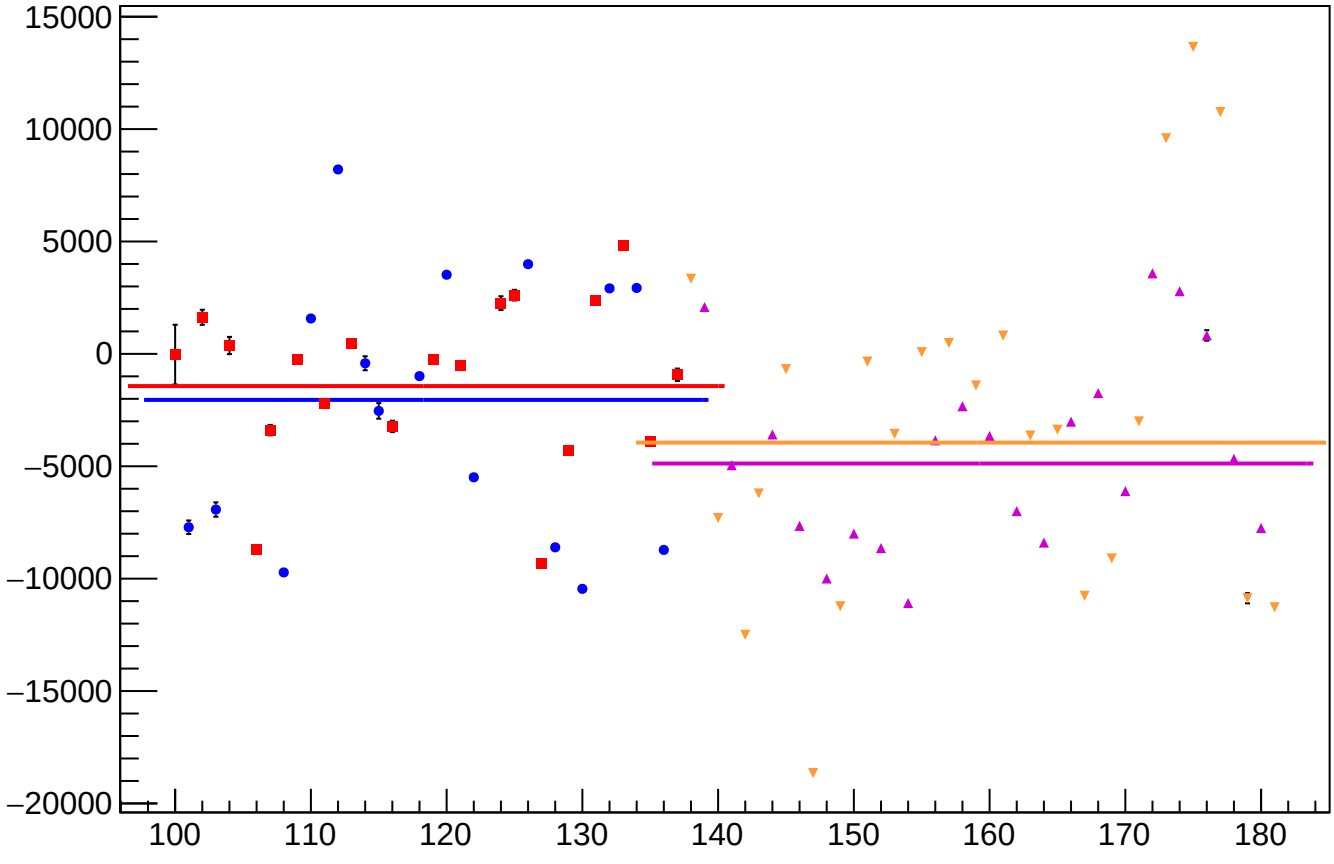
Right: 217.691+/-0.042 $\chi^2$/NDF: 1610450.2/34

In: 223.979+/-0.033 $\chi^2$/NDF:1213439.7/36

Out: 229.681+/-0.033 $\chi^2$/NDF:1647779.5/41

All: 226.836+/-0.023 $\chi^2$/NDF: 2876279.9/78

# asym_bpm1i02WS_mean vs Slug, Sign Corrected




Right In: -2047.267+/-46.722 $\chi^2$/NDF: 16709.1/15

Left Out: -3947.133+/-31.216 $\chi^2$/NDF:53912.1/22

Right Out: -1432.909+/-44.729 $\chi^2$/NDF: 6387.8/18

Left In: -4877.883+/-32.422 $\chi^2$/NDF:15405.5/20

Left: -4394.874+/-22.487 $\chi^2$/NDF: 69745.3/43

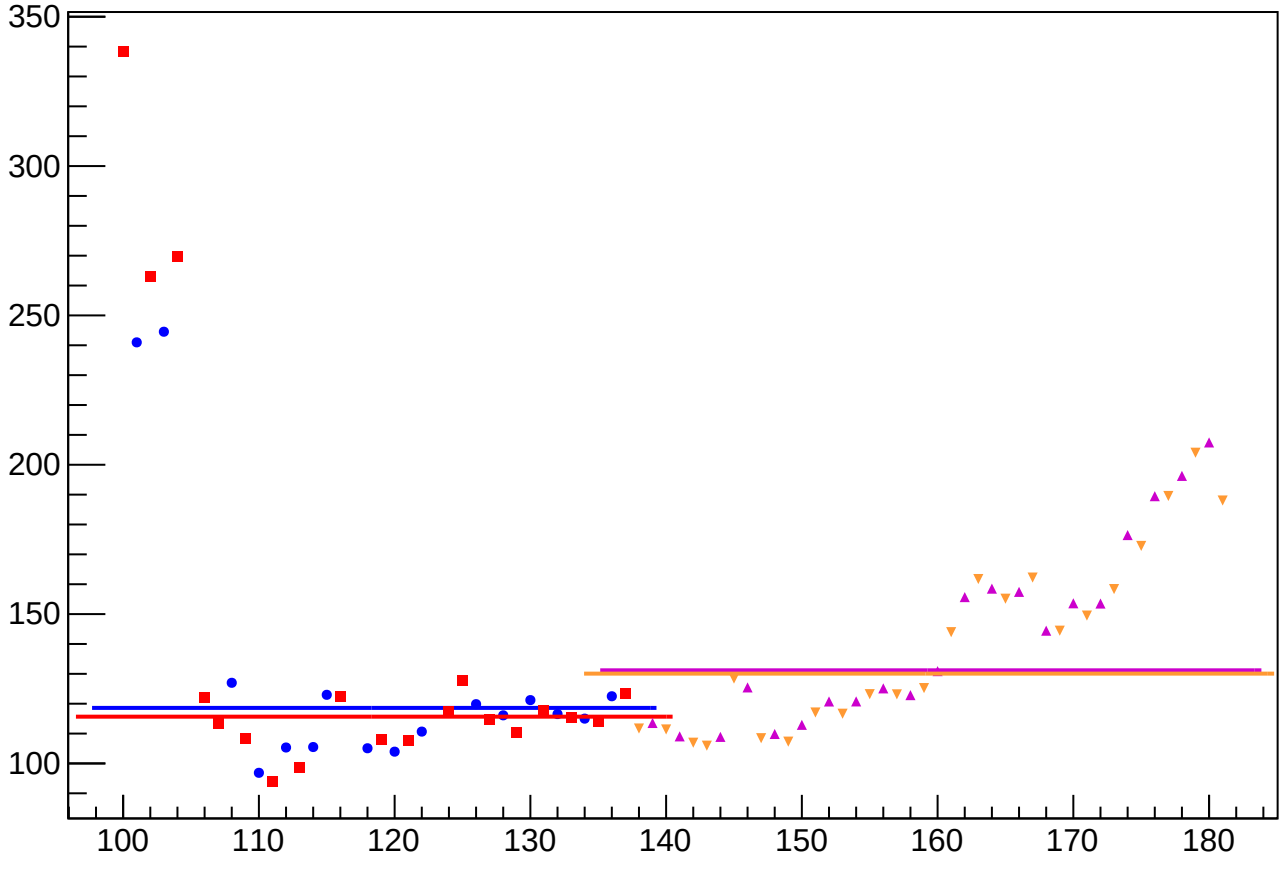
Right: -1726.707+/-32.310 $\chi^2$/NDF: 23187.1/34

In: -3957.845+/-26.637 $\chi^2$/NDF:34592.1/36

Out: -3123.655+/-25.598 $\chi^2$/NDF:62424.6/41

All: -3524.174+/-18.457 $\chi^2$/NDF: 97526.6/78

# asym_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 118.596+/-0.033 $\chi^2$/NDF: 734158.7/15

Left Out: 130.070+/-0.022 $\chi^2$/NDF:1296025.1/22

Right Out: 115.660+/-0.032 $\chi^2$/NDF: 864206.3/18

Left In: 131.177+/-0.023 $\chi^2$/NDF:1174576.7/20

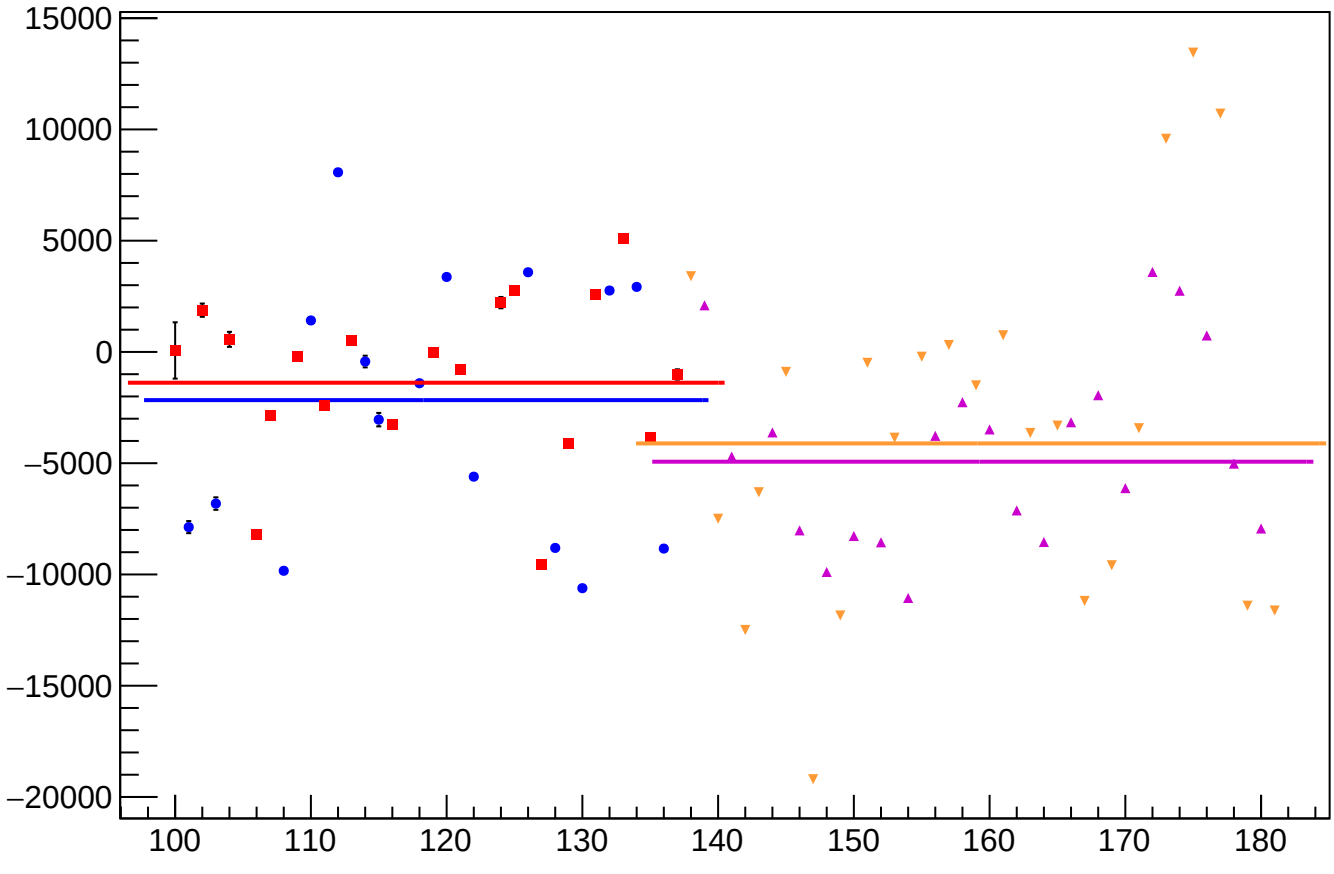
Left: 130.602+/-0.016 $\chi^2$/NDF: 2471812.5/43

Right: 117.064+/-0.023 $\chi^2$/NDF: 1602486.6/34

In: 127.088+/-0.019 $\chi^2$/NDF:2006618.9/36

Out: 125.350+/-0.018 $\chi^2$/NDF:2299821.2/41

All: 126.184+/-0.013 $\chi^2$/NDF: 4310865.4/78




Right In: -2165.877+/-39.632 $\chi^2$/NDF: 22874.8/15

Left Out: -4111.085+/-28.299 $\chi^2$/NDF:63671.5/22

Right Out: -1383.103+/-37.976 $\chi^2$/NDF: 9148.6/18

Left In: -4932.652+/-29.665 $\chi^2$/NDF:18344.8/20

Left: -4502.523+/-20.476 $\chi^2$/NDF: 82417.9/43

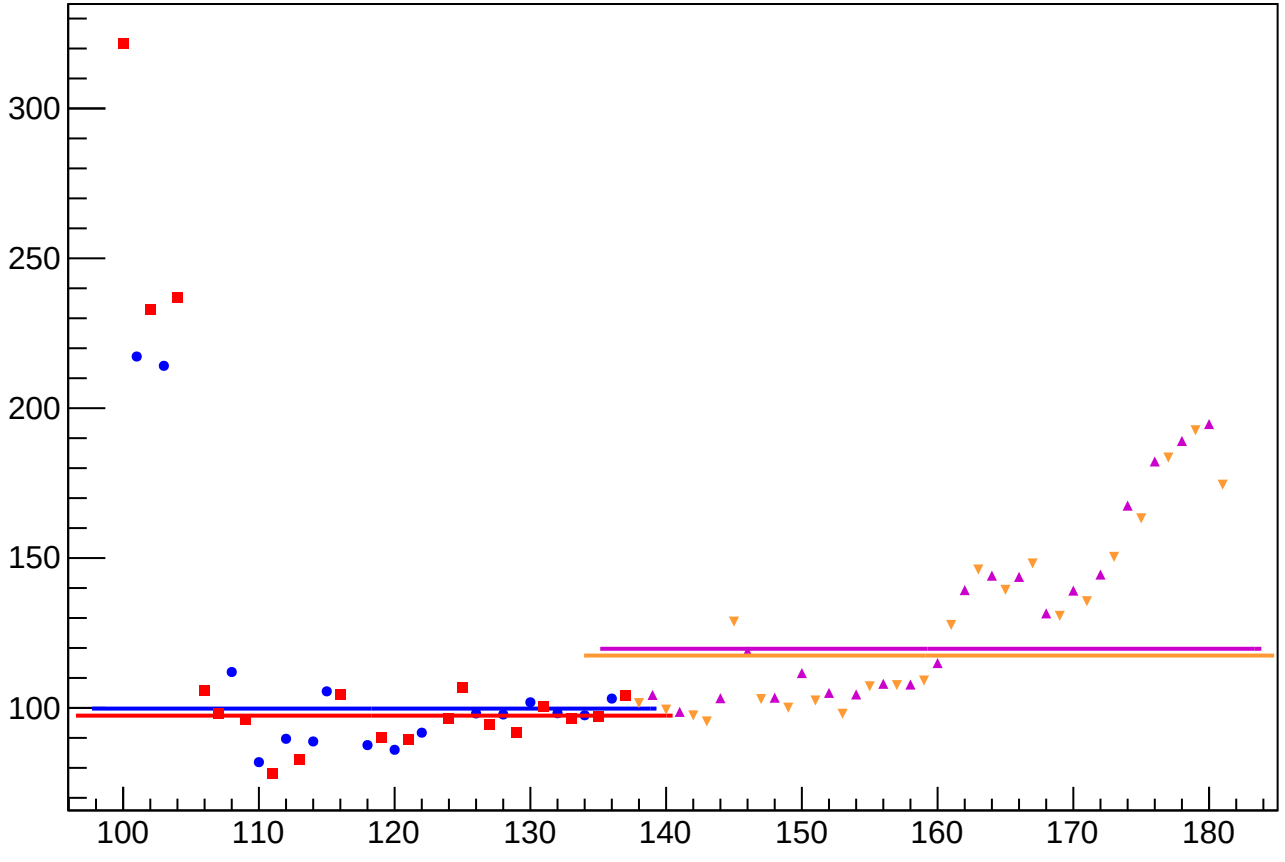
Right: -1757.793+/-27.420 $\chi^2$/NDF: 32226.8/34

In: -3939.162+/-23.749 $\chi^2$/NDF:44343.3/36

Out: -3137.093+/-22.691 $\chi^2$/NDF:76137.9/41

All: -3519.878+/-16.406 $\chi^2$/NDF: 121077.5/7

# asym_bpm1i04WS_rms vs Slug, Sign Corrected




Right In: 99.775+/-0.028 $\chi^2$/NDF: 809152.9/15

Left Out: 117.470+/-0.020 $\chi^2$/NDF:1492574.4/22

Right Out: 97.428+/-0.027 $\chi^2$/NDF: 926047.7/18

Left In: 119.733+/-0.021 $\chi^2$/NDF:1281794.0/20

Left: 118.548+/-0.014 $\chi^2$/NDF: 2780461.6/43

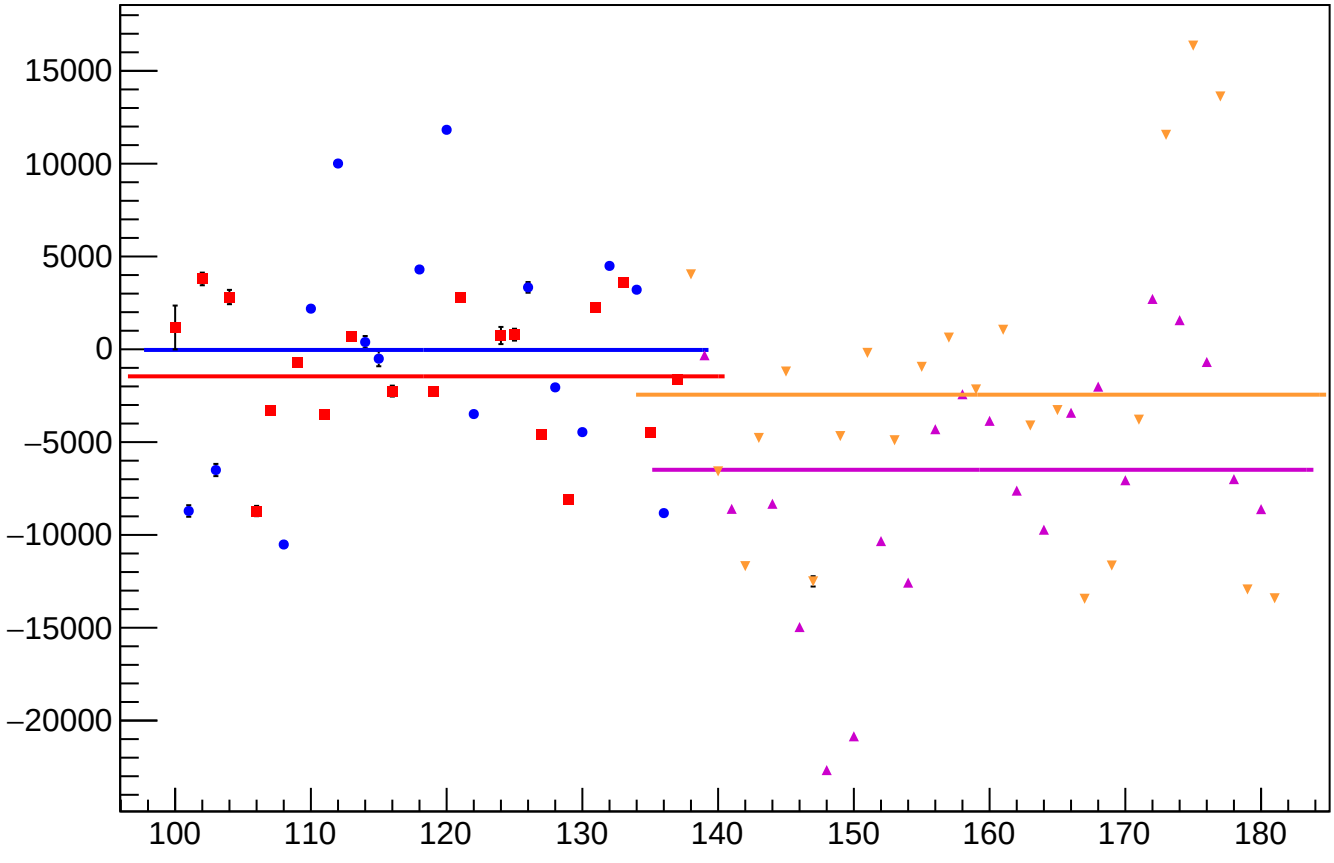
Right: 98.551+/-0.019 $\chi^2$/NDF: 1738857.3/34

In: 112.566+/-0.017 $\chi^2$/NDF:2416036.4/36

Out: 110.314+/-0.016 $\chi^2$/NDF:2776813.6/41

All: 111.389+/-0.012 $\chi^2$/NDF: 5202252.9/78

# asym_bpm1i06WS_mean vs Slug, Sign Corrected




Right In: -34.667+/-53.465 $\chi^2$/NDF: 16802.8/15

Left Out: -2444.846+/-38.860 $\chi^2$/NDF:33647.4/22

Right Out: -1456.665+/-51.946 $\chi^2$/NDF: 4117.0/18

Left In: -6491.027+/-41.047 $\chi^2$/NDF:18944.3/20

Left: -4357.267+/-28.220 $\chi^2$/NDF: 57715.8/43

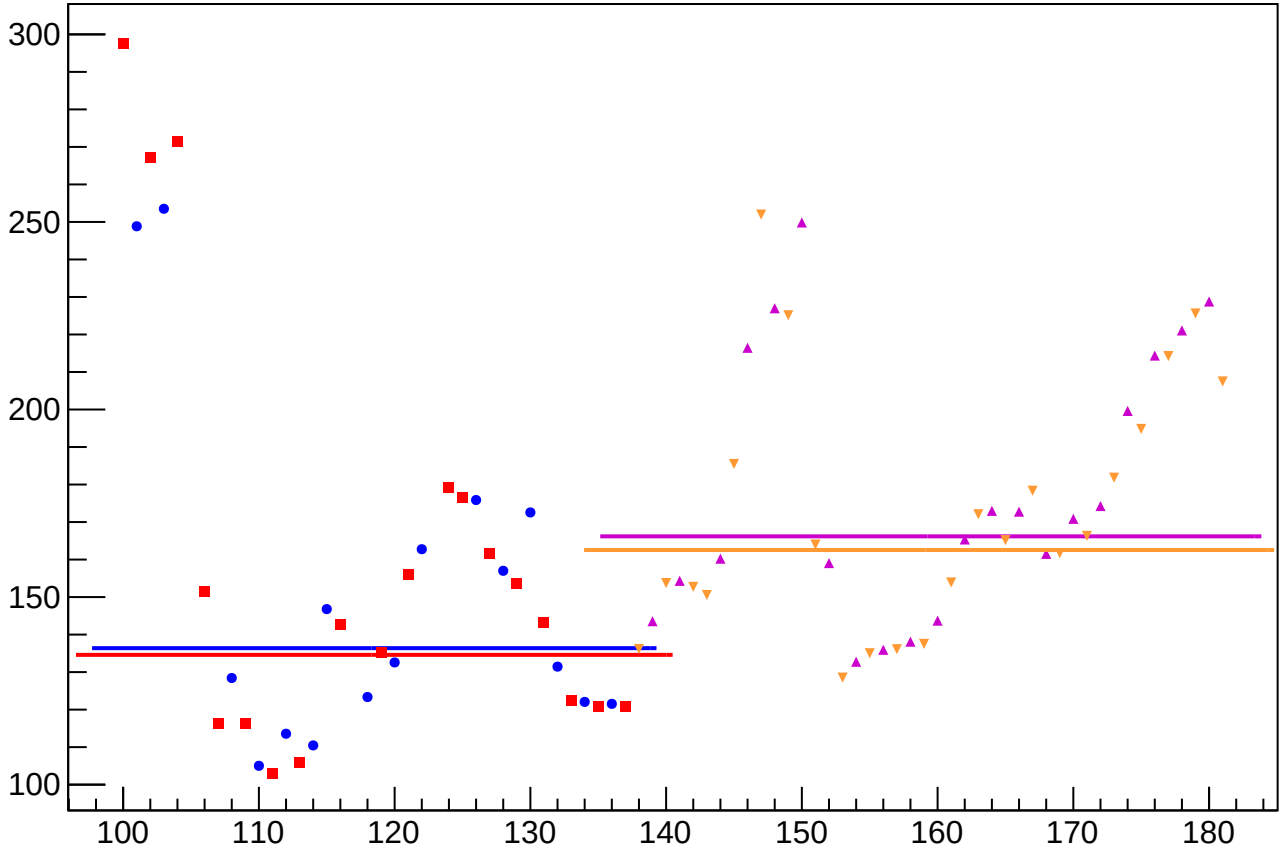
Right: -766.160+/-37.257 $\chi^2$/NDF: 21283.7/34

In: -4096.738+/-32.559 $\chi^2$/NDF:44921.8/36

Out: -2090.260+/-31.117 $\chi^2$/NDF:37996.4/41

All: -3048.084+/-22.495 $\chi^2$/NDF: 84903.1/78

# asym_bpm1i06WS_rms vs Slug, Sign Corrected




Right In: 136.383+/-0.038 $\chi^2$/NDF: 796855.7/15

Left Out: 162.542+/-0.027 $\chi^2$/NDF:1122274.2/22

Right Out: 134.598+/-0.037 $\chi^2$/NDF: 919605.2/18

Left In: 166.192+/-0.029 $\chi^2$/NDF:1125250.1/20

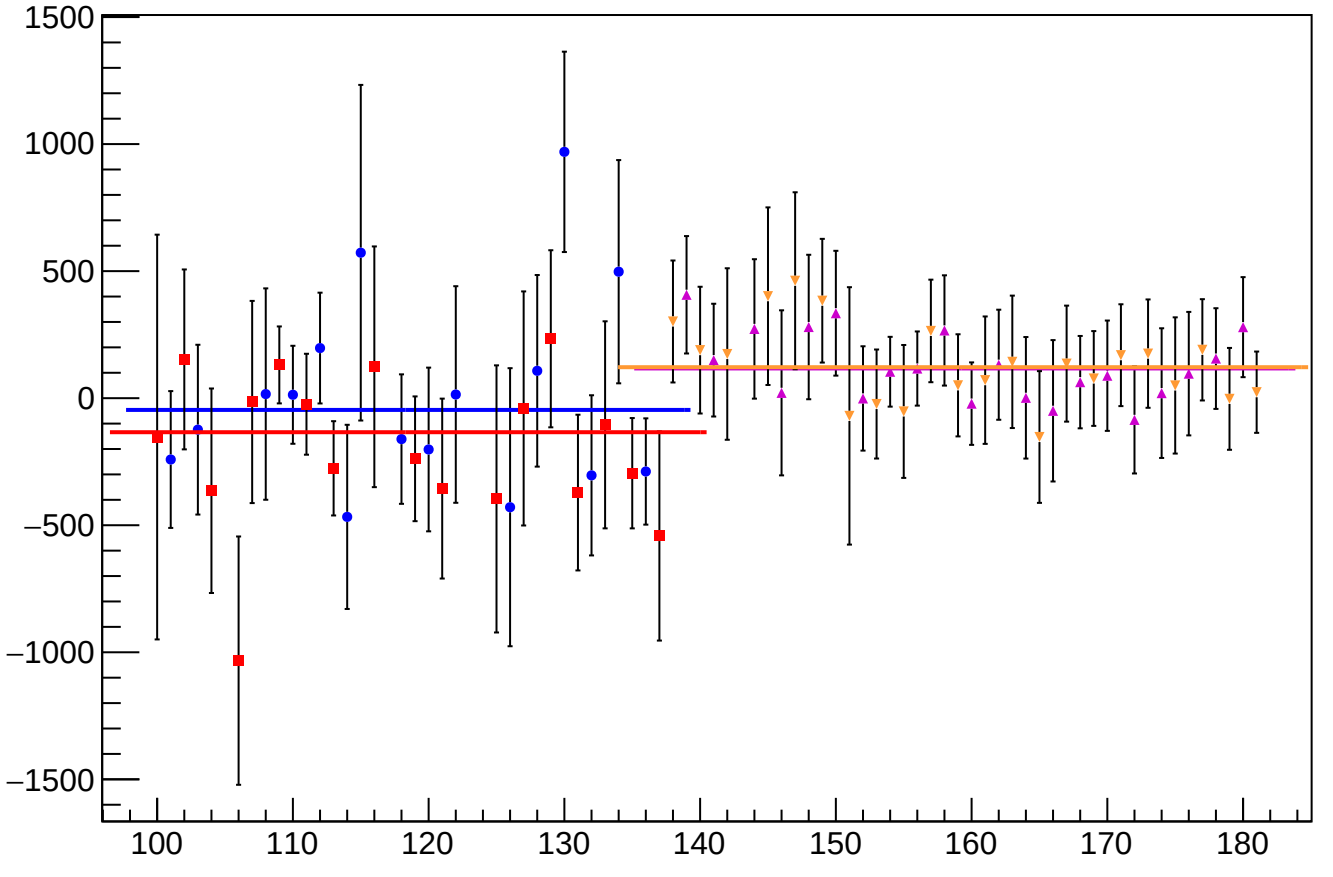
Left: 164.267+/-0.020 $\chi^2$/NDF: 2255860.9/43

Right: 135.465+/-0.026 $\chi^2$/NDF: 1717607.6/34

In: 155.138+/-0.023 $\chi^2$/NDF:2313239.2/36

Out: 152.515+/-0.022 $\chi^2$/NDF:2412973.0/41

All: 153.767+/-0.016 $\chi^2$/NDF: 4732992.3/78




Right In: -46.199+/-76.283 $\chi^2$/NDF: 15.5/15

Left Out: 121.939+/-49.477 $\chi^2$/NDF:7.4/21

Right Out: -133.913+/-68.414 $\chi^2$/NDF: 12.8/17

Left In: 117.002+/-45.506 $\chi^2$/NDF:7.2/20

Left: 119.264+/-33.493 $\chi^2$/NDF: 14.5/42

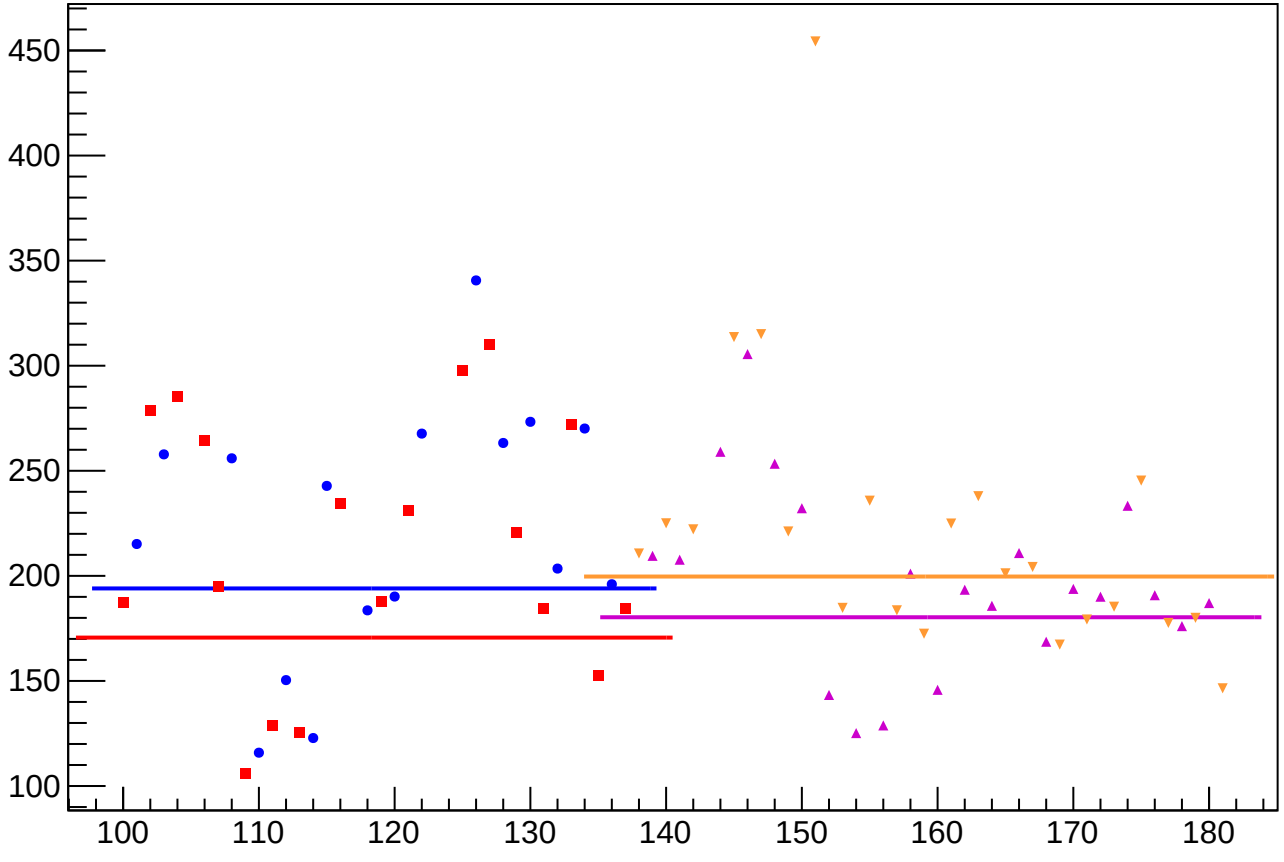
Right: -94.812+/-50.931 $\chi^2$/NDF: 29.0/33

In: 74.168+/-39.080 $\chi^2$/NDF:26.0/36

Out: 34.076+/-40.091 $\chi^2$/NDF:29.4/39

All: 54.634+/-27.985 $\chi^2$/NDF: 55.9/76

asym_bcm_2an_us_an_ds_avg_rms vs Slug, Sign Corrected




Right In: 194.017+/-0.054 $\chi^2$/NDF: 1043588.7/15

Left Out: 199.678+/-0.035 $\chi^2$/NDF:1560956.6/21

Right Out: 170.624+/-0.048 $\chi^2$/NDF: 1593735.4/17

Left In: 180.304+/-0.032 $\chi^2$/NDF:1636613.8/20

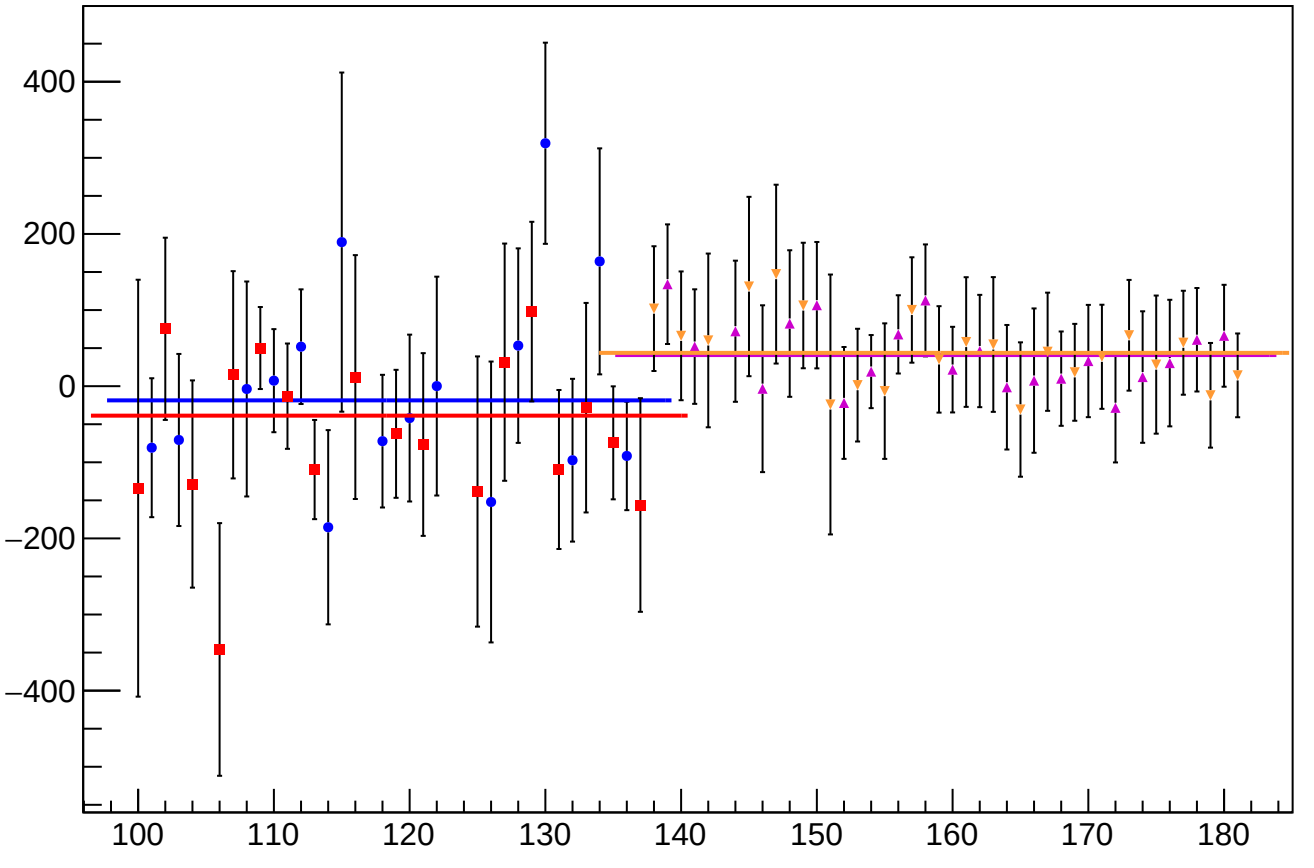
Left: 189.182+/-0.024 $\chi^2$/NDF: 3363709.0/42

Right: 181.052+/-0.036 $\chi^2$/NDF: 2741566.5/33

In: 183.903+/-0.028 $\chi^2$/NDF:2727873.0/36

Out: 189.700+/-0.028 $\chi^2$/NDF:3391535.4/39

All: 186.728+/-0.020 $\chi^2$/NDF: 6140854.6/76




Right In: -18.645+/-26.122 $\chi^2$/NDF: 15.2/15

Left Out: 43.772+/-16.903 $\chi^2$/NDF:6.0/21

Right Out: -38.716+/-23.652 $\chi^2$/NDF: 12.6/17

Left In: 40.891+/-15.637 $\chi^2$/NDF:6.7/20

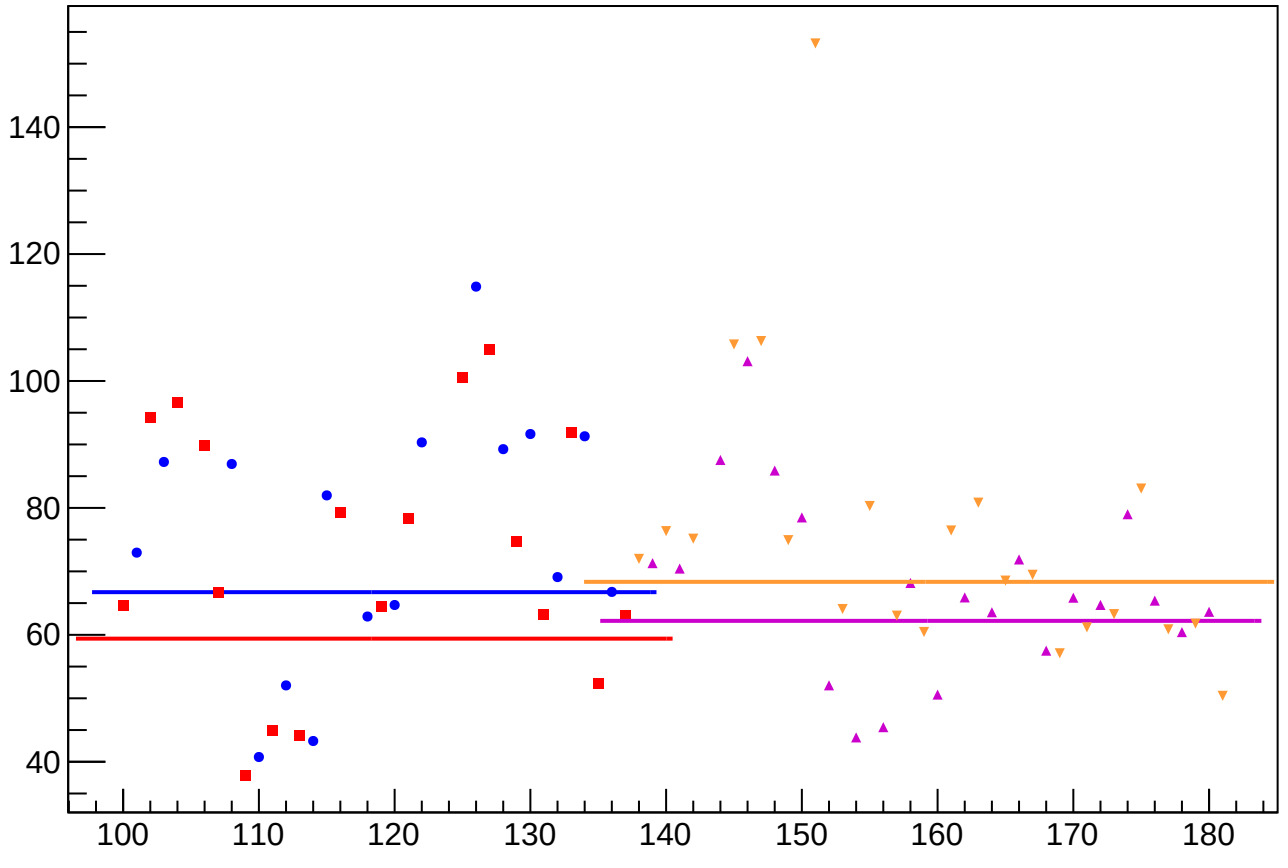
Left: 42.219+/-11.478 $\chi^2$/NDF: 12.8/42

Right: -29.674+/-17.533 $\chi^2$/NDF: 28.2/33

In: 25.186+/-13.417 $\chi^2$/NDF:25.8/36

Out: 15.885+/-13.752 $\chi^2$/NDF:26.7/39

All: 20.650+/-9.603 $\chi^2$/NDF: 52.7/76




Right In: 66.724+/-0.018 $\chi^2$/NDF: 947040.2/15

Left Out: 68.350+/-0.012 $\chi^2$/NDF:1486102.5/21

Right Out: 59.400+/-0.017 $\chi^2$/NDF: 1445371.1/17

Left In: 62.203+/-0.011 $\chi^2$/NDF:1444665.5/20

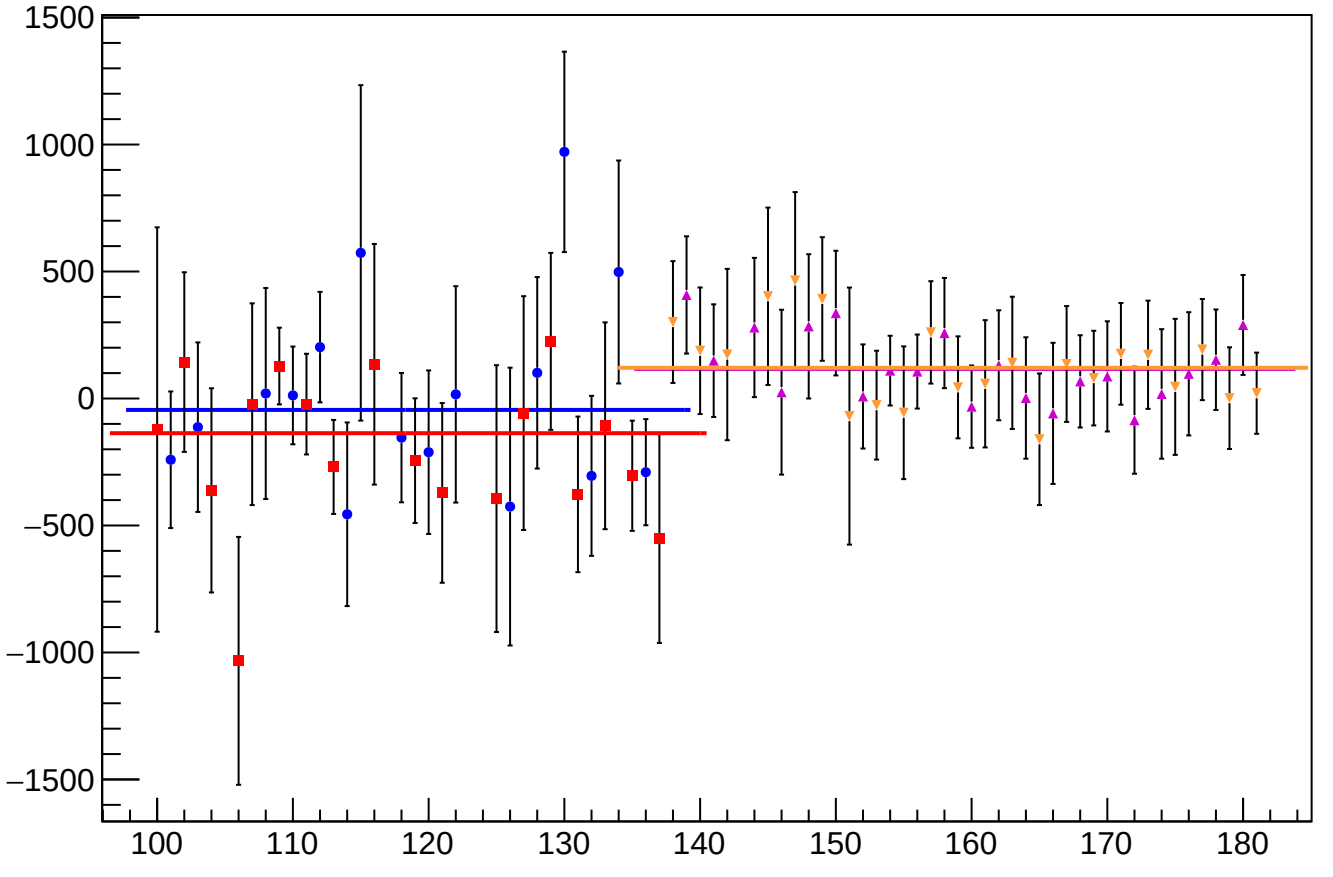
Left: 65.037+/-0.008 $\chi^2$/NDF: 3073319.3/42

Right: 62.700+/-0.012 $\chi^2$/NDF: 2478799.5/33

In: 63.395+/-0.009 $\chi^2$/NDF:2435823.2/36

Out: 65.324+/-0.010 $\chi^2$/NDF:3121019.1/39

All: 64.336+/-0.007 $\chi^2$/NDF: 5577005.7/76




Right In: -44.917+/-76.198 $\chi^2$/NDF: 15.5/15

Left Out: 120.803+/-49.434 $\chi^2$/NDF:7.6/21

Right Out: -136.579+/-68.322 $\chi^2$/NDF: 12.9/17

Left In: 116.522+/-45.467 $\chi^2$/NDF:7.4/20

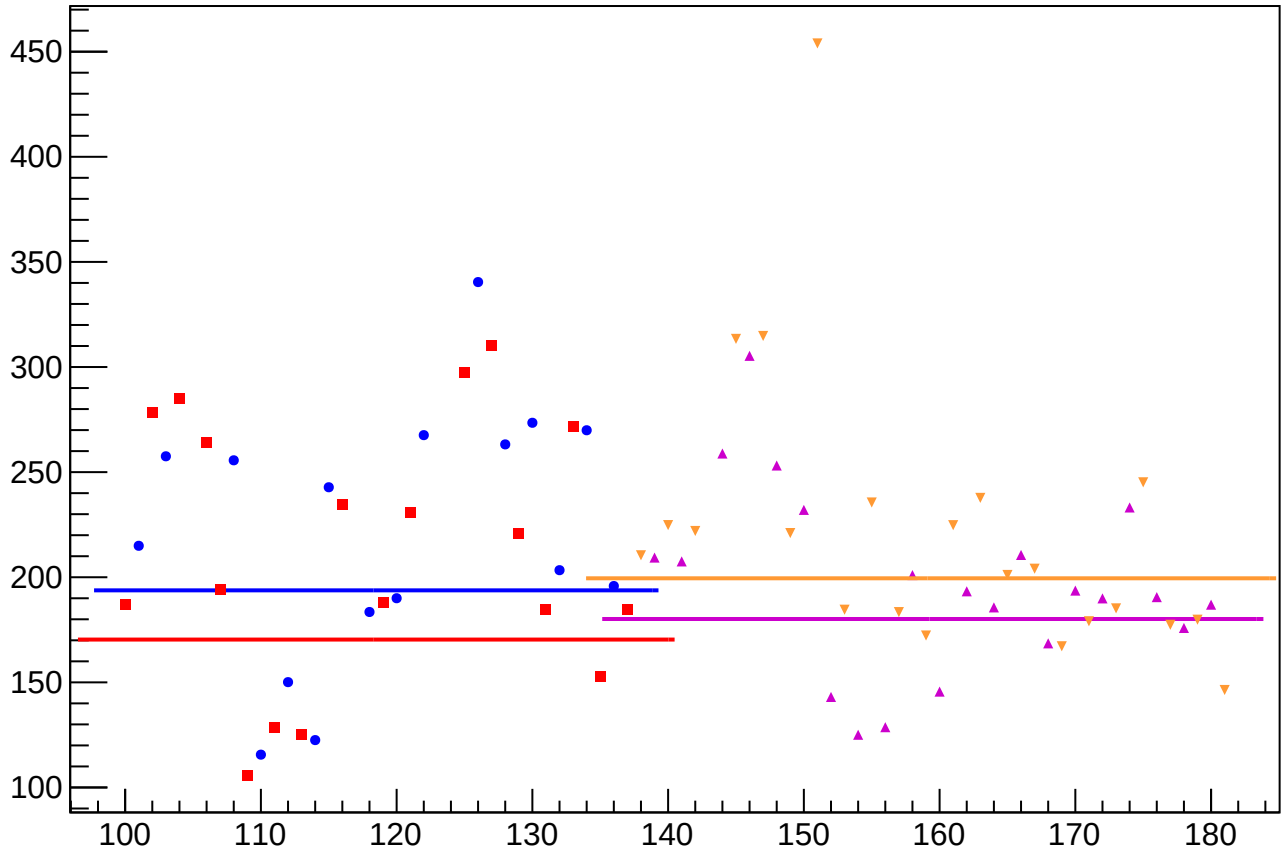
Left: 118.484+/-33.465 $\chi^2$/NDF: 15.0/42

Right: -95.728+/-50.868 $\chi^2$/NDF: 29.1/33

In: 74.135+/-39.044 $\chi^2$/NDF:26.1/36

Out: 32.361+/-40.050 $\chi^2$/NDF:29.8/39

All: 53.779+/-27.957 $\chi^2$/NDF: 56.5/76




Right In: 193.768+/-0.054 $\chi^2$/NDF: 1048095.1/15

Left Out: 199.500+/-0.035 $\chi^2$/NDF:1561906.5/21

Right Out: 170.358+/-0.048 $\chi^2$/NDF: 1599025.1/17

Left In: 180.140+/-0.032 $\chi^2$/NDF:1638846.4/20

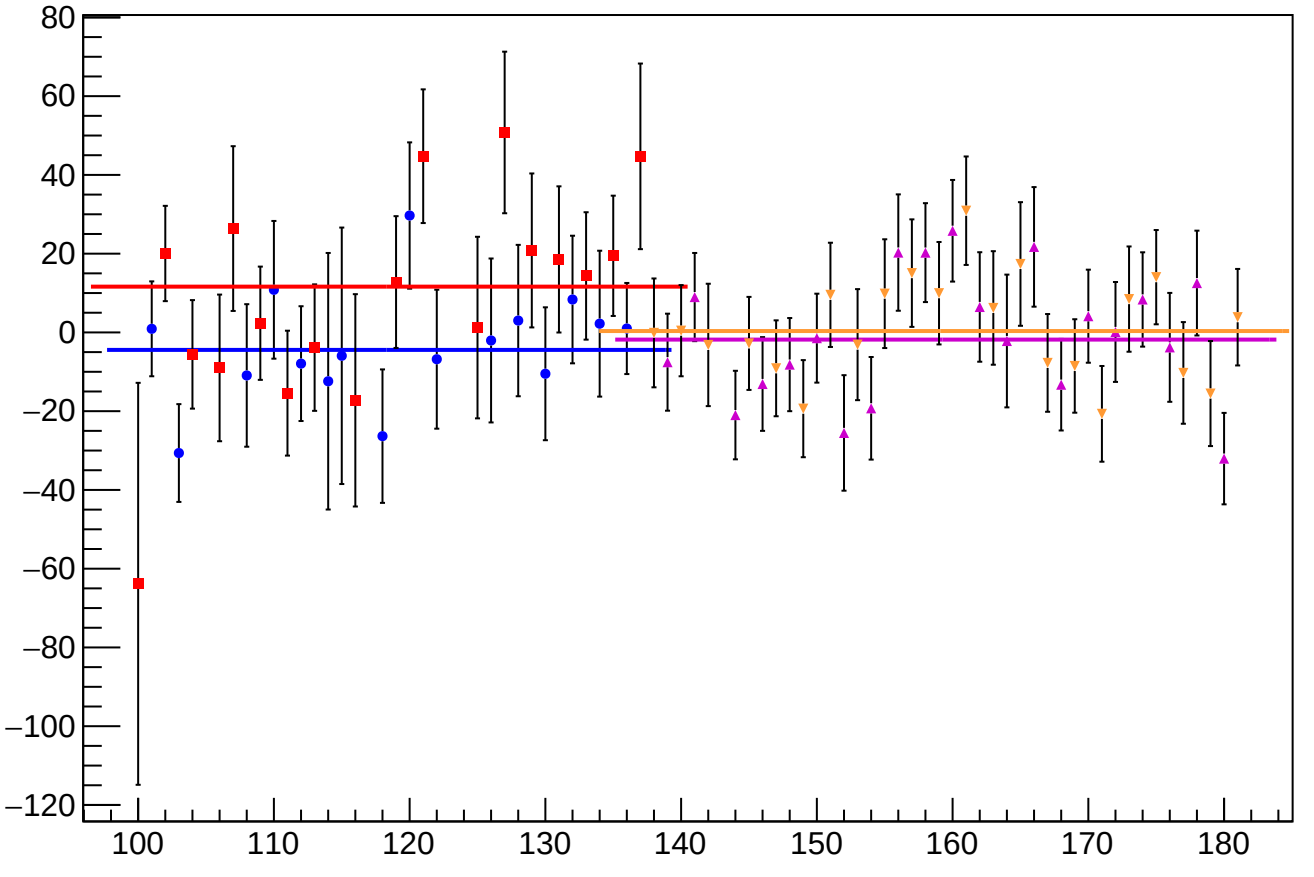
Left: 189.012+/-0.024 $\chi^2$/NDF: 3366923.0/42

Right: 180.791+/-0.036 $\chi^2$/NDF: 2751765.9/33

In: 183.718+/-0.028 $\chi^2$/NDF:2734114.8/36

Out: 189.486+/-0.028 $\chi^2$/NDF:3399770.1/39

All: 186.529+/-0.020 $\chi^2$/NDF: 6155151.7/76




Right In: -4.440+/-4.131 $\chi^2$/NDF: 12.0/15

Left Out: 0.349+/-2.774 $\chi^2$/NDF:20.1/21

Right Out: 11.627+/-4.137 $\chi^2$/NDF: 21.6/17

Left In: -1.822+/-2.762 $\chi^2$/NDF:32.2/20

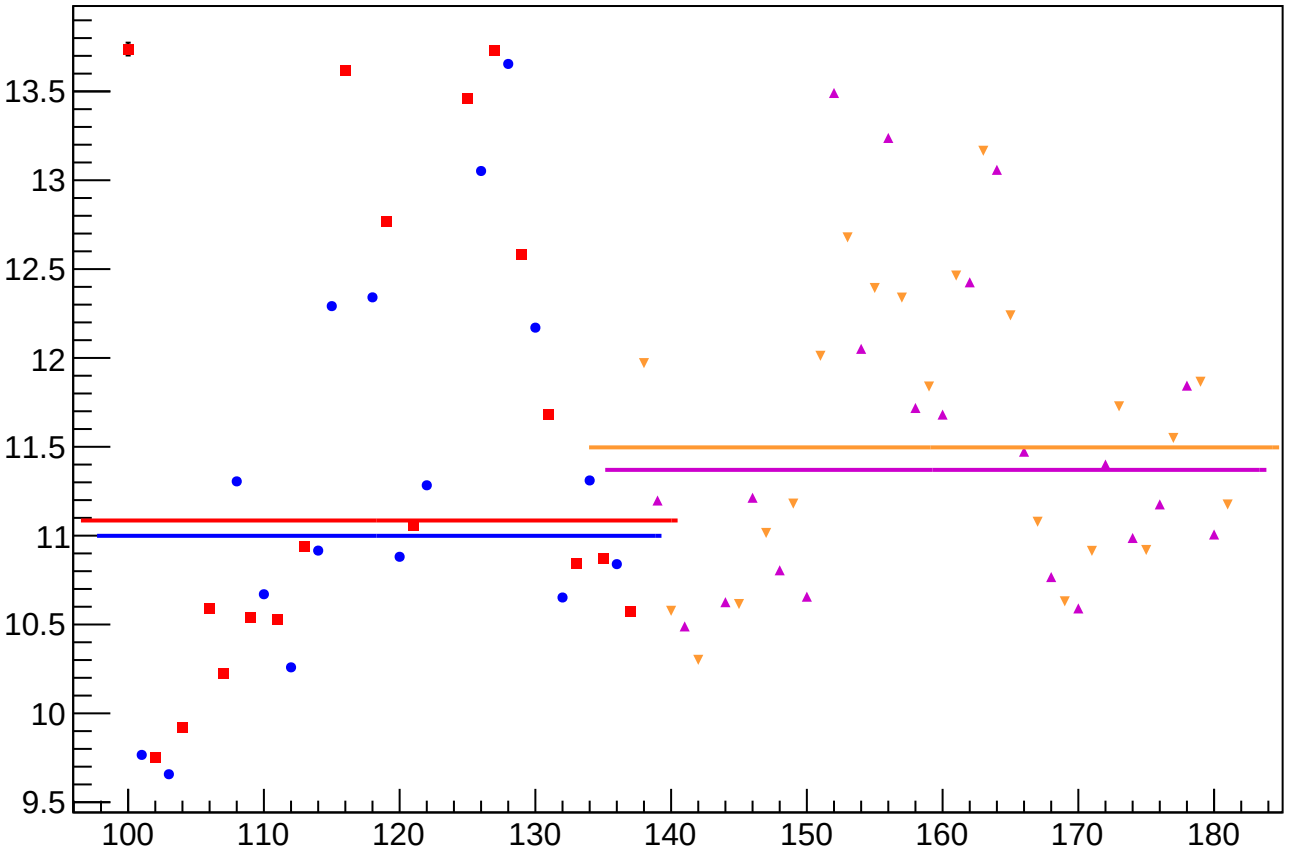
Left: -0.741+/-1.957 $\chi^2$/NDF: 52.7/42

Right: 3.582+/-2.923 $\chi^2$/NDF: 41.2/33

In: -2.631+/-2.296 $\chi^2$/NDF:44.5/36

Out: 3.848+/-2.304 $\chi^2$/NDF:46.9/39

All: 0.597+/-1.626 $\chi^2$/NDF: 95.3/76




Right In: 10.999+/-0.003 $\chi^2$/NDF: 136159.2/15

Left Out: 11.497+/-0.002 $\chi^2$/NDF:143790.4/21

Right Out: 11.085+/-0.003 $\chi^2$/NDF: 162204.2/17

Left In: 11.370+/-0.002 $\chi^2$/NDF:169112.6/20

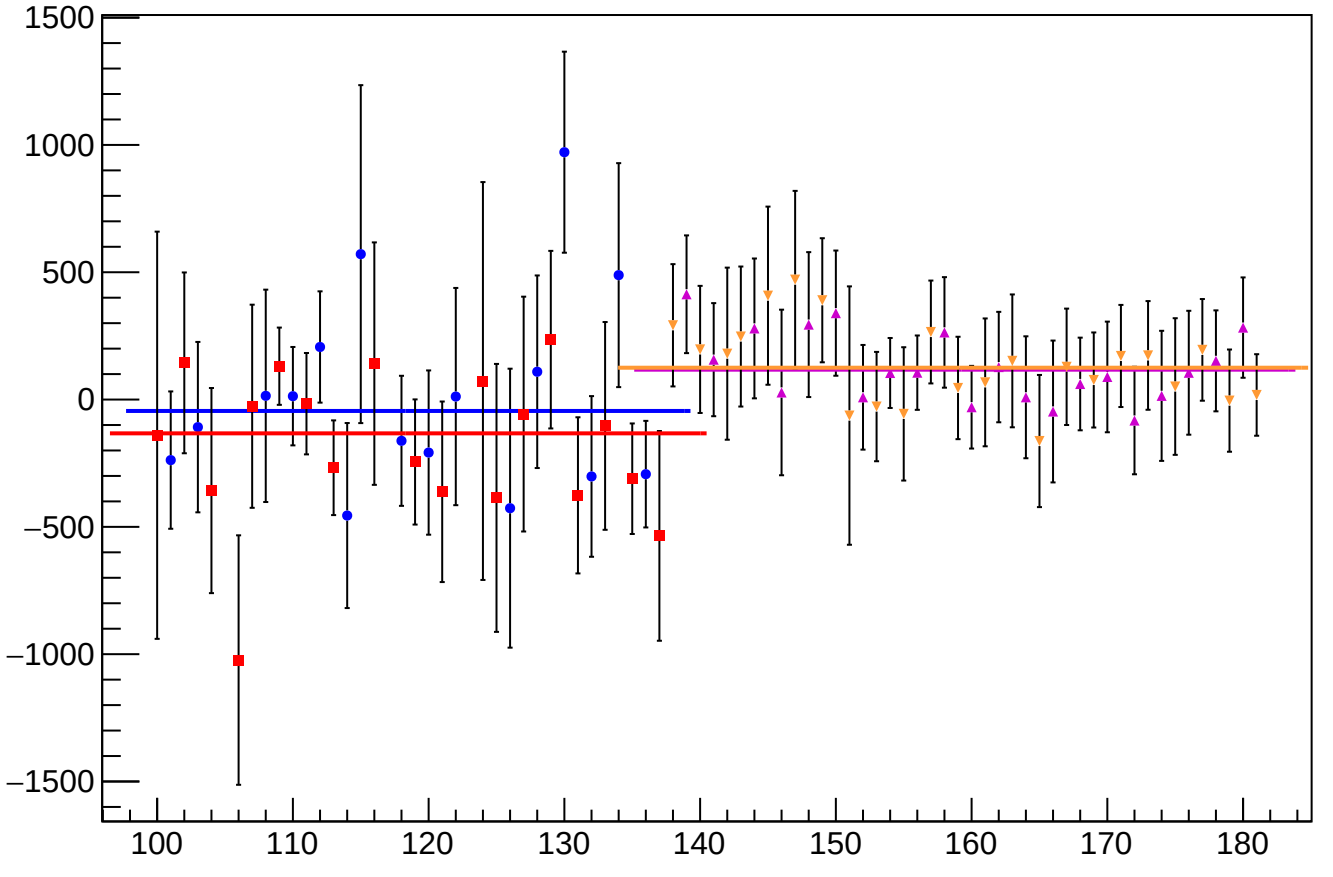
Left: 11.433+/-0.001 $\chi^2$/NDF: 314994.9/42

Right: 11.042+/-0.002 $\chi^2$/NDF: 298798.9/33

In: 11.255+/-0.002 $\chi^2$/NDF:316425.4/36

Out: 11.369+/-0.002 $\chi^2$/NDF:319643.7/39

All: 11.312+/-0.001 $\chi^2$/NDF: 638510.4/76




Right In: -44.797+/-76.424 $\chi^2$/NDF: 15.4/15

Left Out: 125.039+/-48.743 $\chi^2$/NDF:7.9/22

Right Out: -132.730+/-68.270 $\chi^2$/NDF: 12.9/18

Left In: 117.331+/-45.543 $\chi^2$/NDF:7.3/20

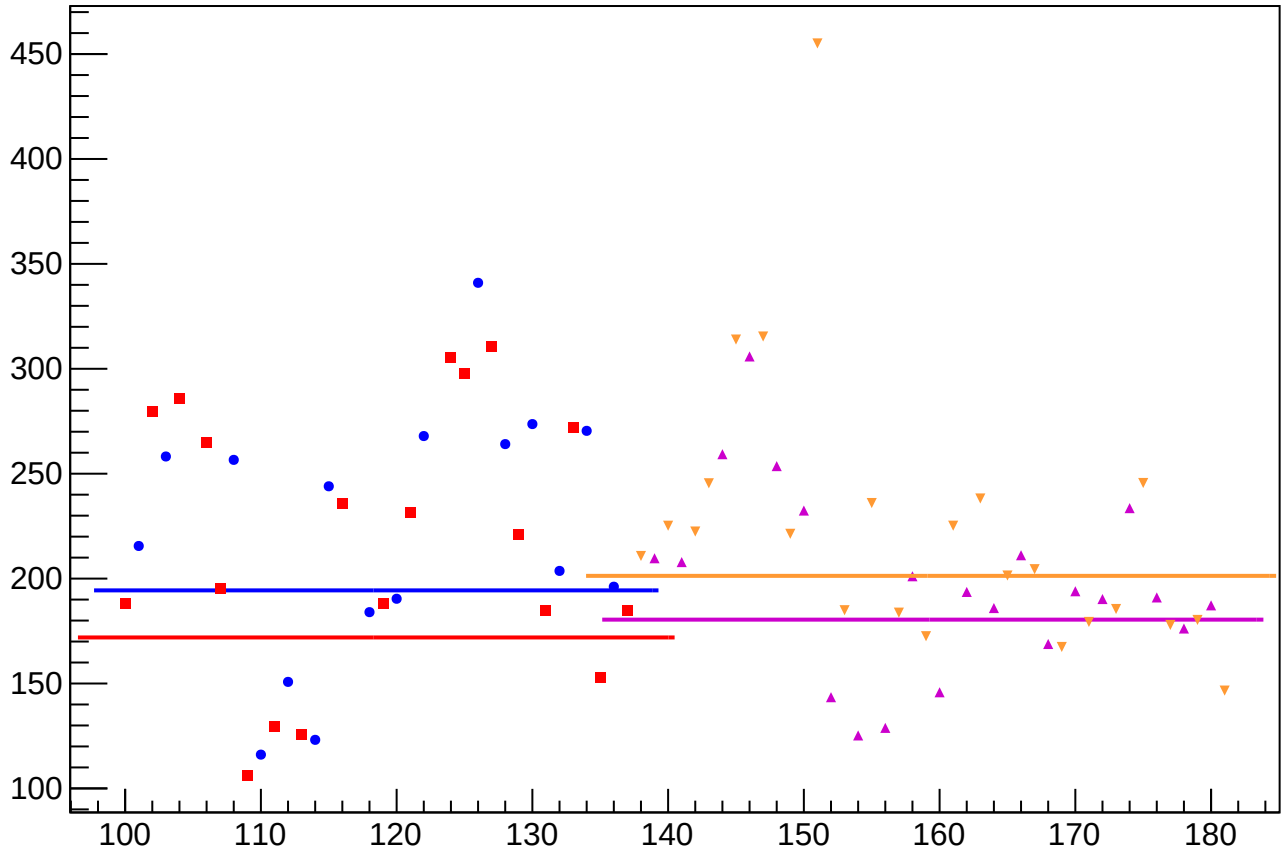
Left: 120.924+/-33.278 $\chi^2$/NDF: 15.2/43

Right: -93.703+/-50.914 $\chi^2$/NDF: 29.0/34

In: 74.843+/-39.123 $\chi^2$/NDF:26.1/36

Out: 38.004+/-39.670 $\chi^2$/NDF:30.2/41

All: 56.679+/-27.855 $\chi^2$/NDF: 56.7/78




Right In: 194.385+/-0.054 $\chi^2$/NDF: 1042024.1/15

Left Out: 201.308+/-0.034 $\chi^2$/NDF:1615284.1/22

Right Out: 171.949+/-0.048 $\chi^2$/NDF: 1651343.7/18

Left In: 180.440+/-0.032 $\chi^2$/NDF:1639362.3/20

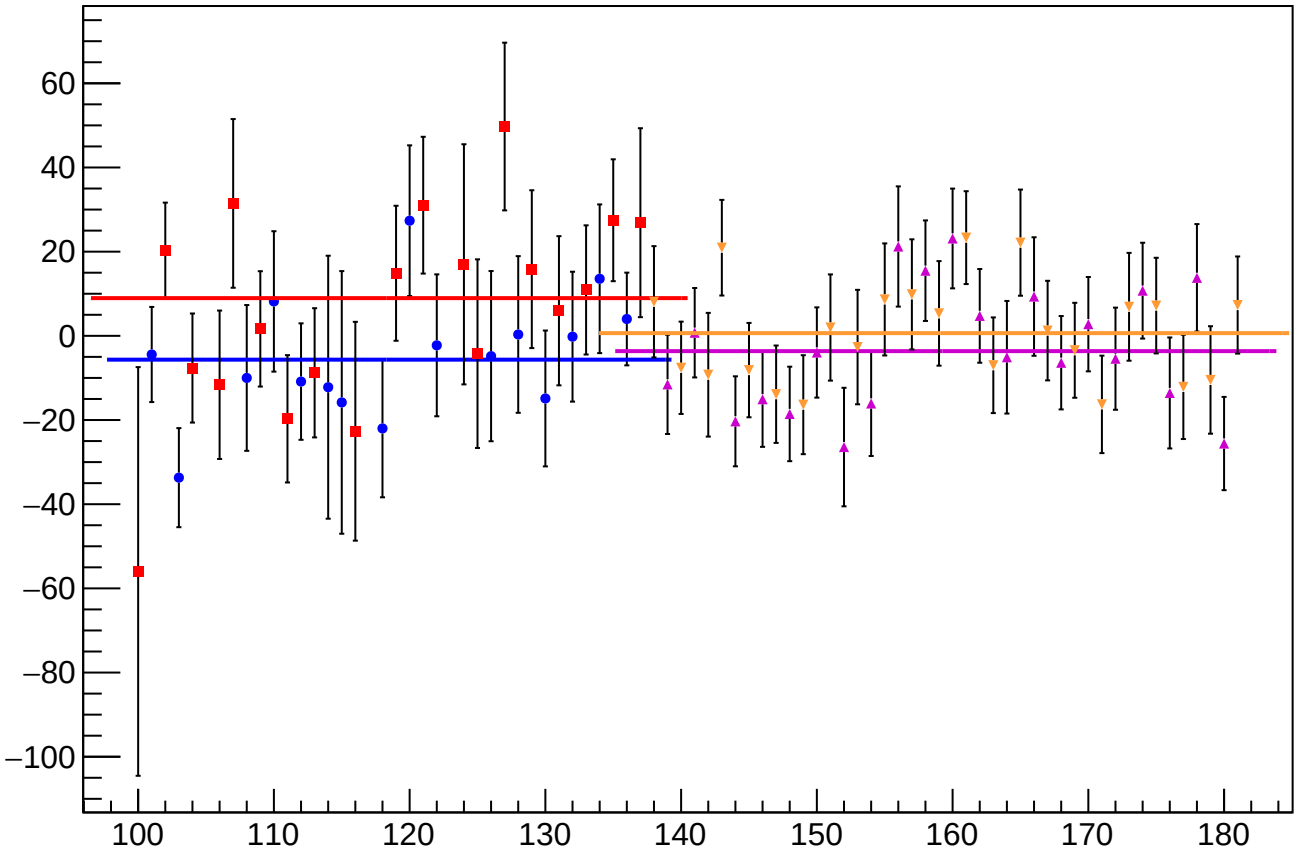
Left: 190.166+/-0.024 $\chi^2$/NDF: 3450367.7/43

Right: 181.907+/-0.036 $\chi^2$/NDF: 2789239.1/34

In: 184.094+/-0.028 $\chi^2$/NDF:2730529.4/36

Out: 191.395+/-0.028 $\chi^2$/NDF:3511618.4/41

All: 187.694+/-0.020 $\chi^2$/NDF: 6276487.5/78




Right In: -5.657+/-3.939 $\chi^2$/NDF: 13.7/15

Left Out: 0.645+/-2.520 $\chi^2$/NDF:22.5/22

Right Out: 8.960+/-3.901 $\chi^2$/NDF: 22.8/18

Left In: -3.632+/-2.590 $\chi^2$/NDF:29.9/20

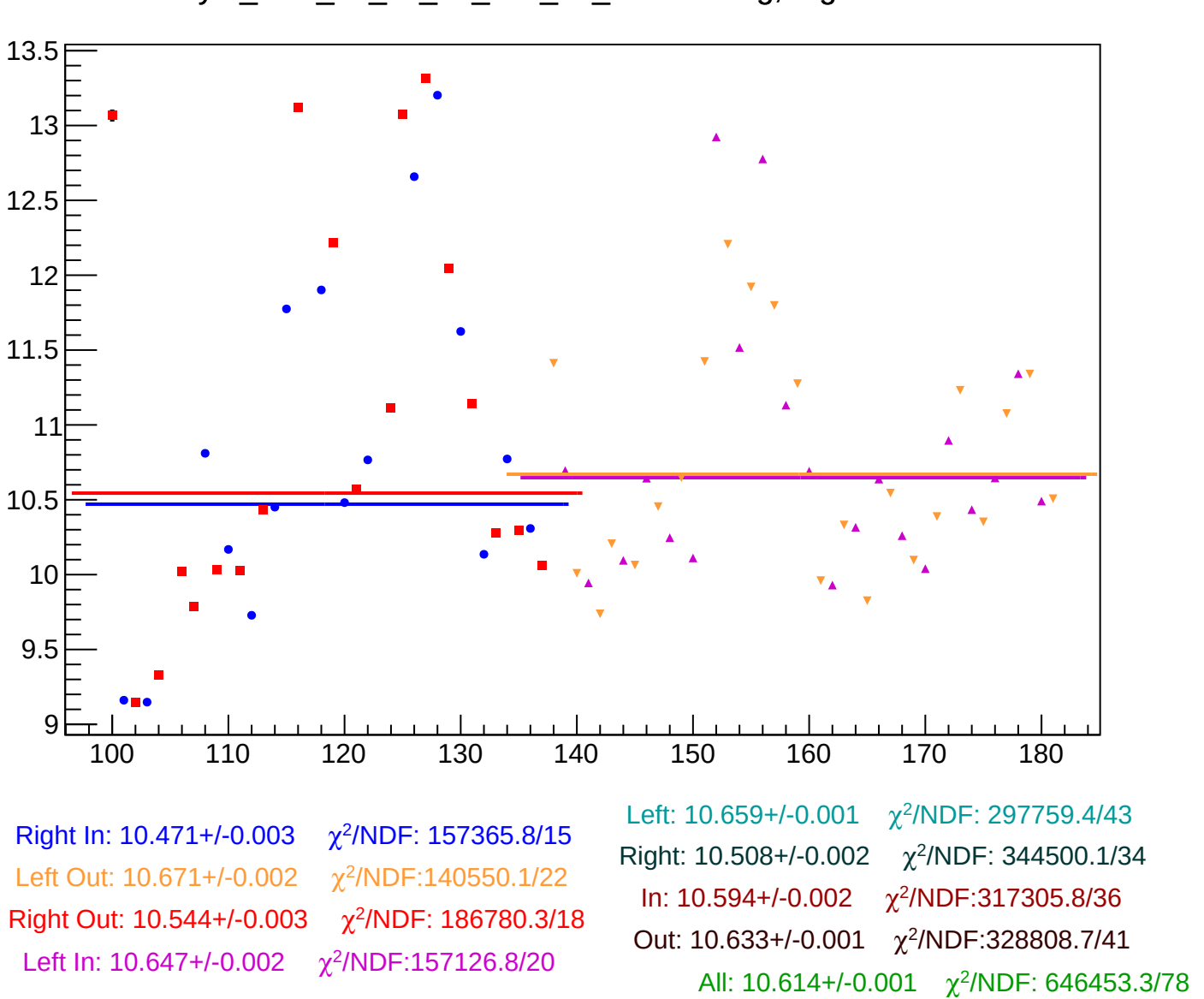
Left: -1.435+/-1.806 $\chi^2$/NDF: 53.8/43

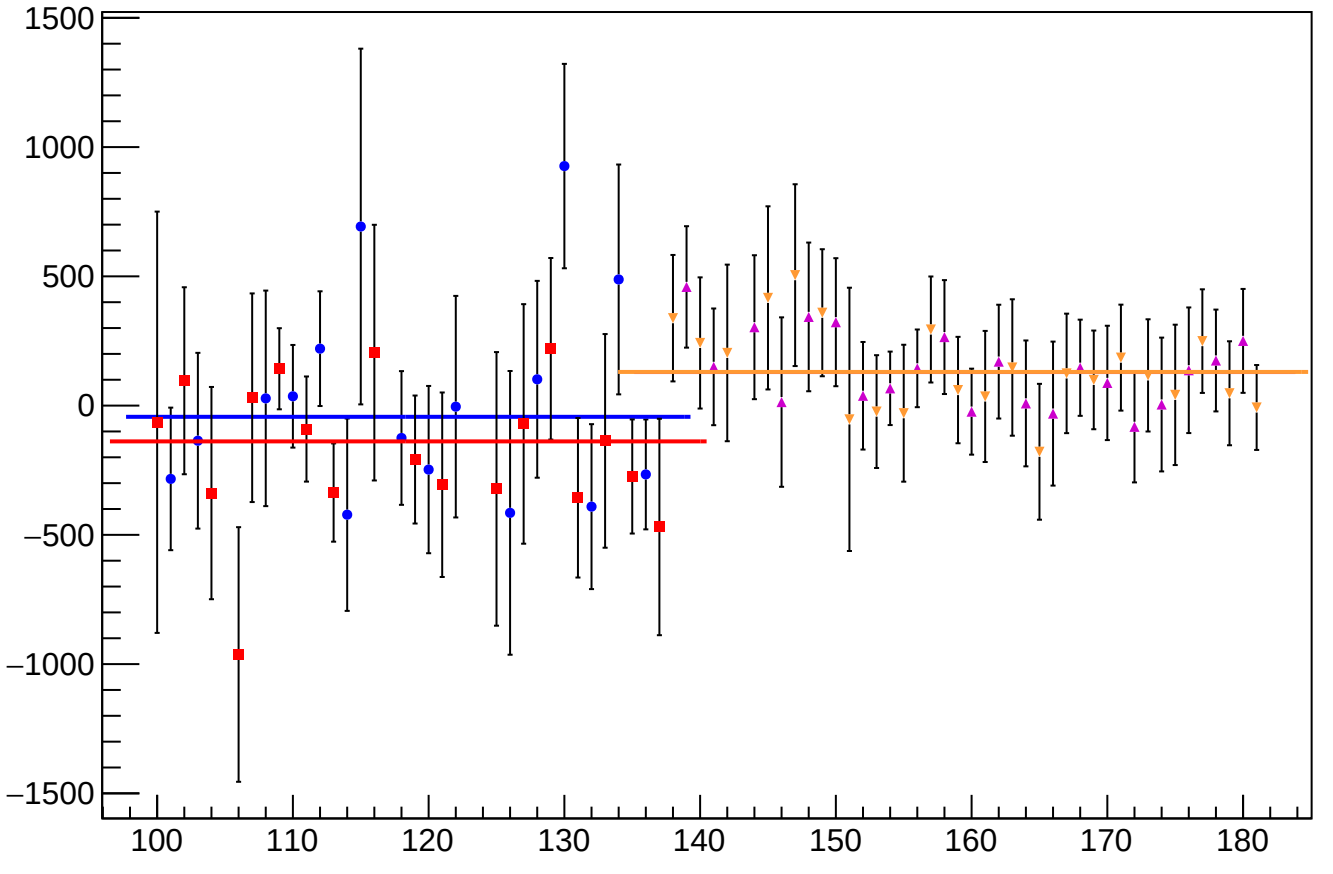
Right: 1.723+/-2.772 $\chi^2$/NDF: 43.4/34

In: -4.243+/-2.164 $\chi^2$/NDF:43.8/36

Out: 3.093+/-2.117 $\chi^2$/NDF:48.5/41

All: -0.494+/-1.513 $\chi^2$/NDF: 98.1/78


asym_bcm_an_us_an_ds3_dd_rms vs Slug, Sign Corrected
13.5
13
12.5
12
11.5
11
10.5
10
9.5
9
100
110
120
130
140
150
160
170
180
Right In: 10.471+/-0.003 χ2/NDF: 157365.8/15
Left Out: 10.671+/-0.002 χ2/NDF:140550.1/22
Right Out: 10.544+/-0.003 χ2/NDF: 186780.3/18
Left In: 10.647+/-0.002 χ2/NDF:157126.8/20
Left: 10.659+/-0.001 χ2/NDF: 297759.4/43
Right: 10.508+/-0.002 χ2/NDF: 344500.1/34
In: 10.594+/-0.002 χ2/NDF:317305.8/36
Out: 10.633+/-0.001 χ2/NDF:328808.7/41
All: 10.614+/-0.001 χ2/NDF: 646453.3/78




Right In: -43.384+/-77.584 $\chi^2$/NDF: 15.5/15

Left Out: 130.238+/-50.265 $\chi^2$/NDF:8.3/21

Right Out: -138.455+/-69.833 $\chi^2$/NDF: 11.5/17

Left In: 129.840+/-46.336 $\chi^2$/NDF:7.5/20

Left: 130.023+/-34.069 $\chi^2$/NDF: 15.9/42

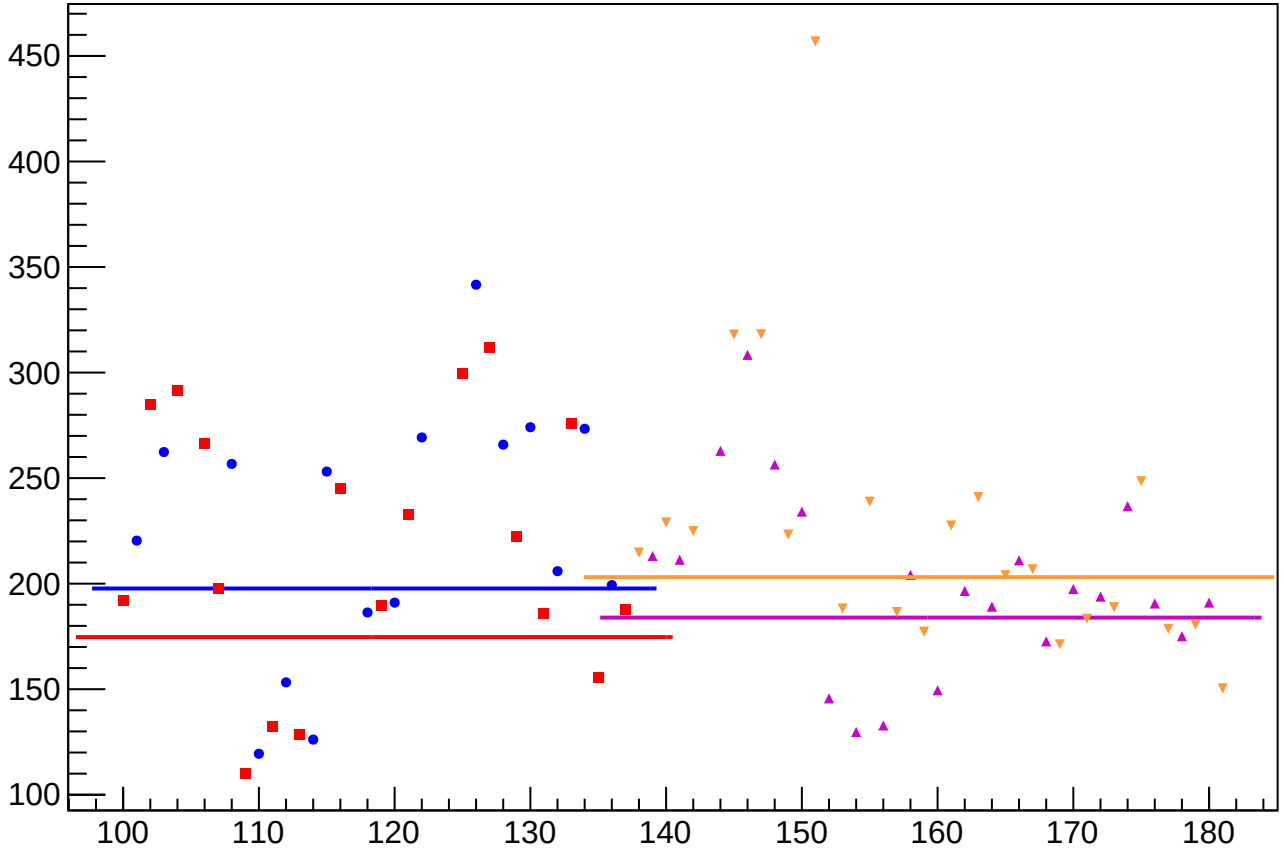
Right: -95.904+/-51.904 $\chi^2$/NDF: 27.7/33

In: 84.298+/-39.781 $\chi^2$/NDF:26.7/36

Out: 38.540+/-40.796 $\chi^2$/NDF:29.5/39

All: 61.995+/-28.481 $\chi^2$/NDF: 56.9/76

# asym_bcm_dg_us_dg_ds_avg_rms vs Slug, Sign Corrected




Right In: 197.707+/-0.055 $\chi^2$/NDF: 1000324.6/15

Left Out: 203.072+/-0.036 $\chi^2$/NDF:1518208.2/21

Right Out: 174.679+/-0.049 $\chi^2$/NDF: 1534751.1/17

Left In: 183.915+/-0.033 $\chi^2$/NDF:1548168.2/20

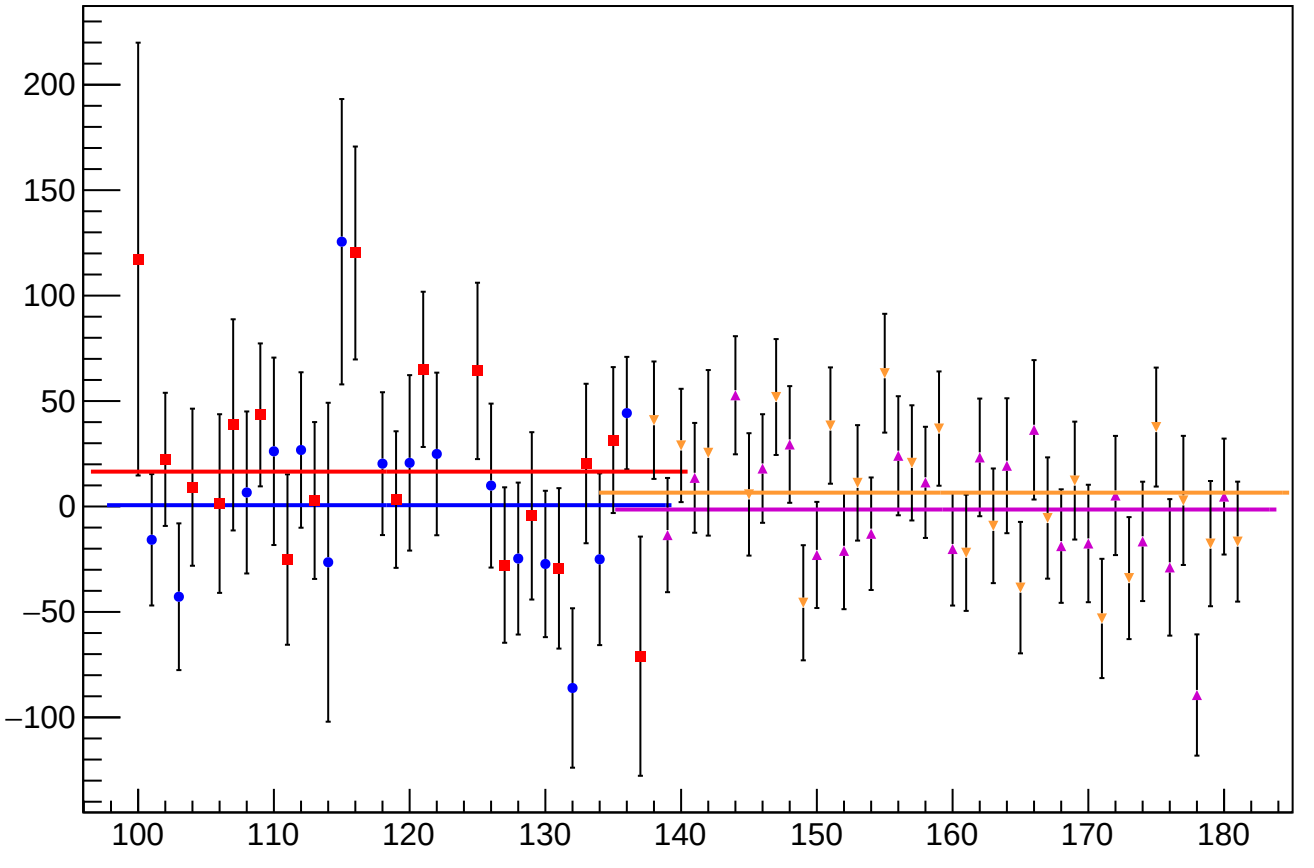
Left: 192.716+/-0.024 $\chi^2$/NDF: 3223427.8/42

Right: 184.986+/-0.037 $\chi^2$/NDF: 2632415.9/33

In: 187.541+/-0.028 $\chi^2$/NDF:2595080.4/36

Out: 193.382+/-0.029 $\chi^2$/NDF:3270750.8/39

All: 190.388+/-0.020 $\chi^2$/NDF: 5886847.1/76




Right In: 0.619+/-9.421 $\chi^2$/NDF: 16.7/15

Left Out: 6.561+/-6.073 $\chi^2$/NDF:28.4/21

Right Out: 16.534+/-9.307 $\chi^2$/NDF: 16.4/17

Left In: -1.432+/-6.070 $\chi^2$/NDF:22.8/20

Left: 2.563+/-4.293 $\chi^2$/NDF: 52.1/42

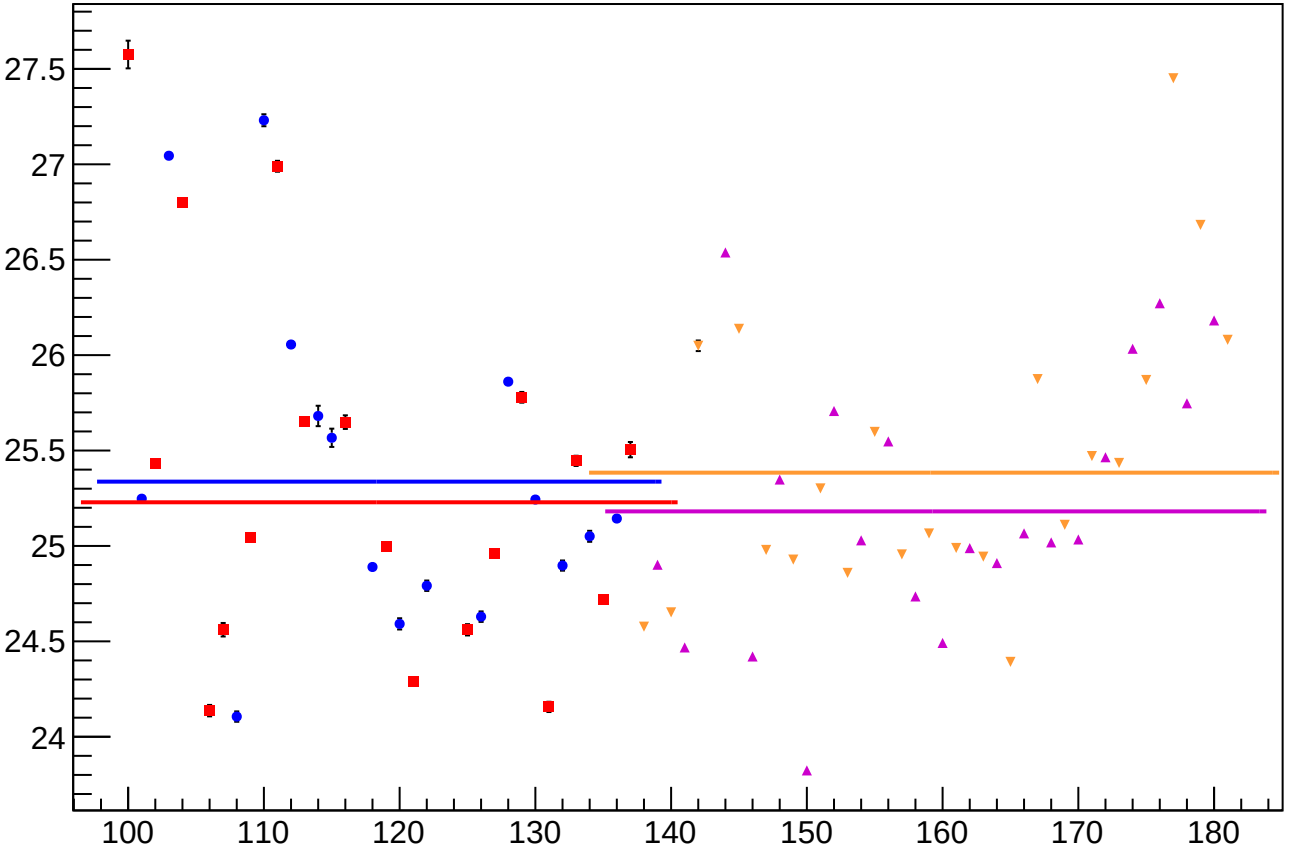
Right: 8.674+/-6.621 $\chi^2$/NDF: 34.6/33

In: -0.830+/-5.103 $\chi^2$/NDF:39.6/36

Out: 9.539+/-5.086 $\chi^2$/NDF:45.6/39

All: 4.372+/-3.602 $\chi^2$/NDF: 87.2/76

# asym_bcm_dg_us_dg_ds_dd_rms vs Slug, Sign Corrected




Right In: 25.337+/-0.007 $\chi^2$/NDF: 14315.0/15

Left Out: 25.384+/-0.004 $\chi^2$/NDF:26205.6/21

Right Out: 25.229+/-0.007 $\chi^2$/NDF: 15176.1/17

Left In: 25.181+/-0.004 $\chi^2$/NDF:25167.7/20

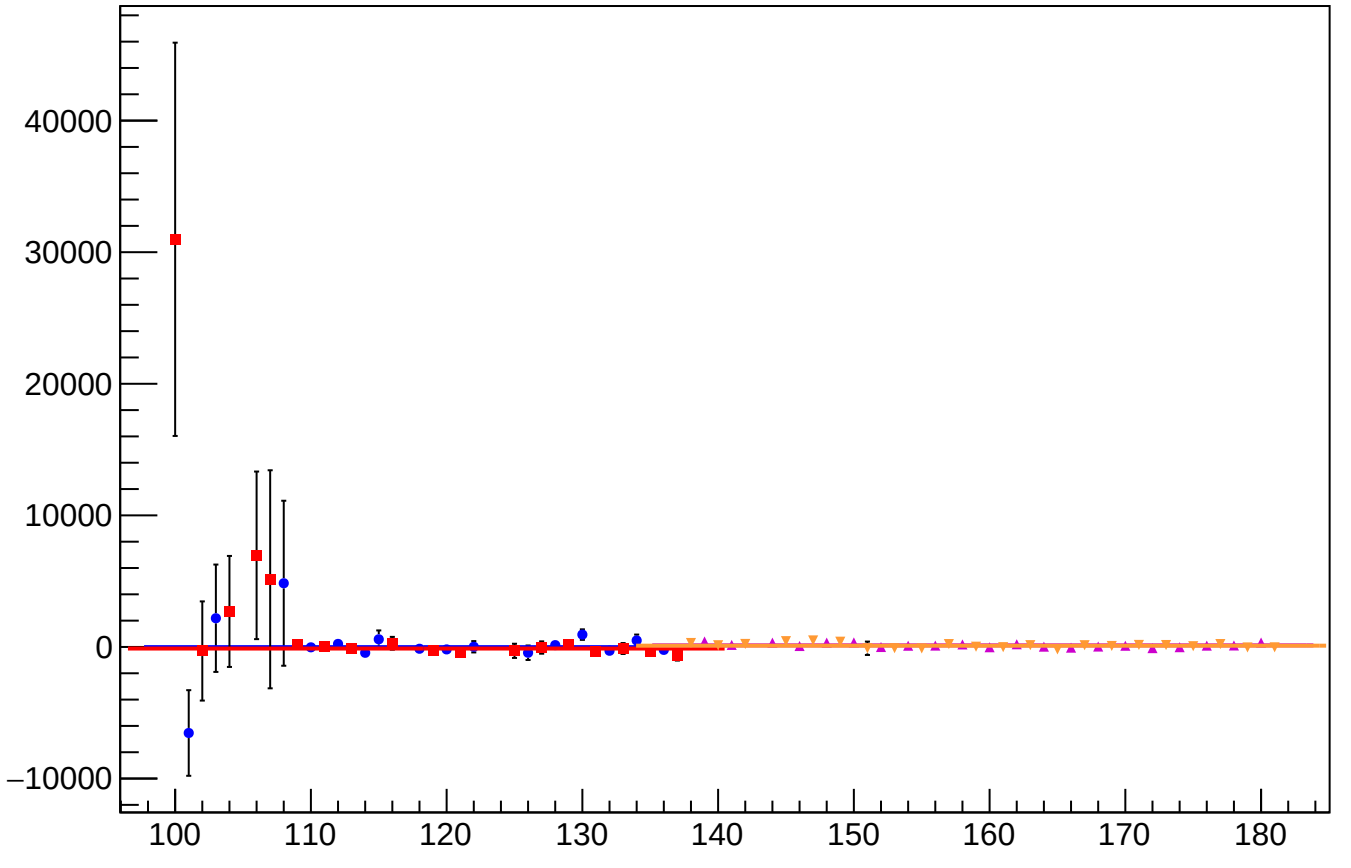
Left: 25.283+/-0.003 $\chi^2$/NDF: 52491.4/42

Right: 25.282+/-0.005 $\chi^2$/NDF: 29624.6/33

In: 25.227+/-0.004 $\chi^2$/NDF:39869.9/36

Out: 25.338+/-0.004 $\chi^2$/NDF:41772.2/39

All: 25.282+/-0.003 $\chi^2$/NDF: 82116.0/76




Right In: -13.160+/-84.454 $\chi^2$/NDF: 18.3/15

Left Out: 97.168+/-49.944 $\chi^2$/NDF:9.5/21

Right Out: -119.984+/-78.247 $\chi^2$/NDF: 14.4/17

Left In: 121.757+/-46.715 $\chi^2$/NDF:8.1/20

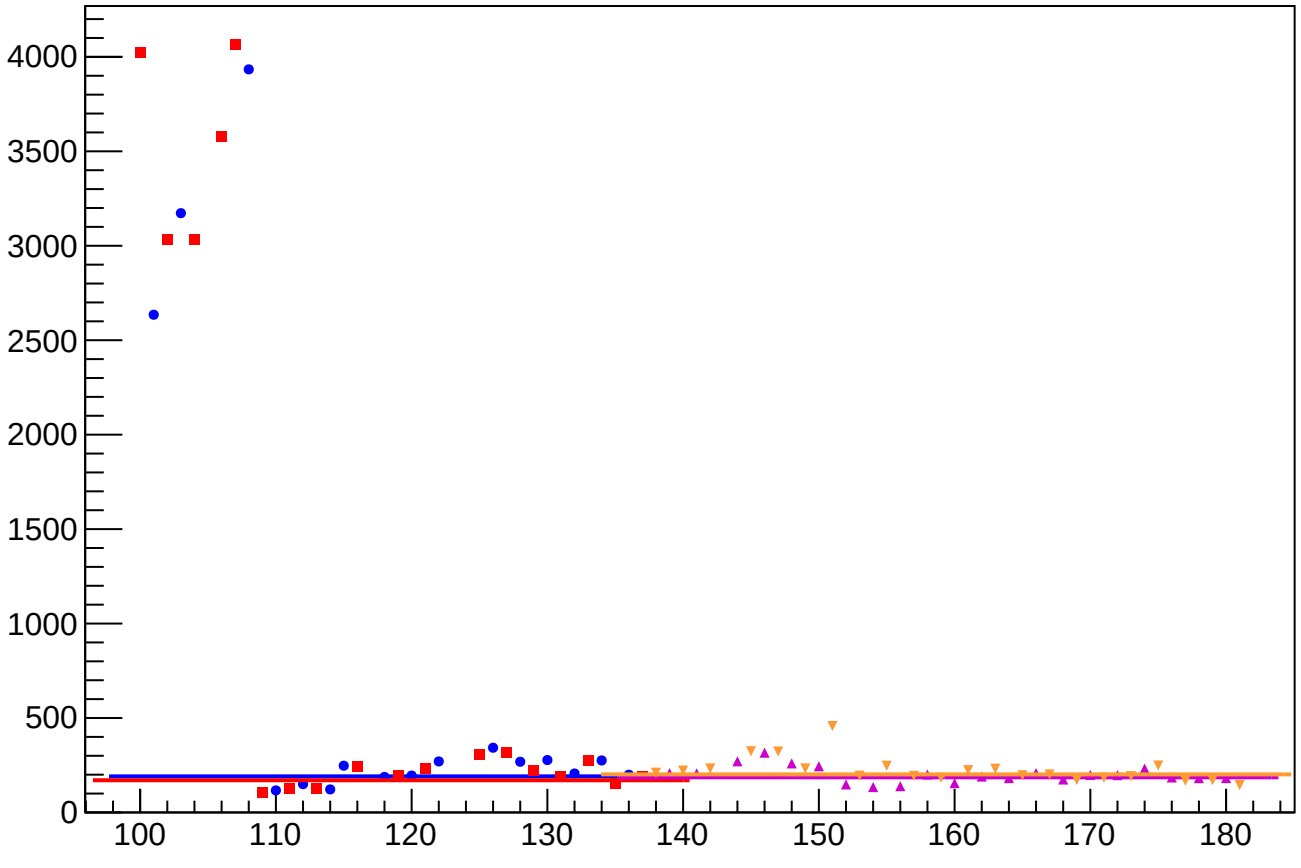
Left: 110.282+/-34.117 $\chi^2$/NDF: 17.8/42

Right: -70.641+/-57.398 $\chi^2$/NDF: 33.6/33

In: 90.148+/-40.878 $\chi^2$/NDF:28.4/36

Out: 34.309+/-42.099 $\chi^2$/NDF:29.4/39

All: 63.050+/-29.327 $\chi^2$/NDF: 58.7/76




Right In: 191.070+/-0.060 $\chi^2$/NDF: 3833952.4/15

Left Out: 201.477+/-0.035 $\chi^2$/NDF:1640041.7/21

Right Out: 170.494+/-0.055 $\chi^2$/NDF: 4254820.8/17

Left In: 185.888+/-0.033 $\chi^2$/NDF:1406613.2/20

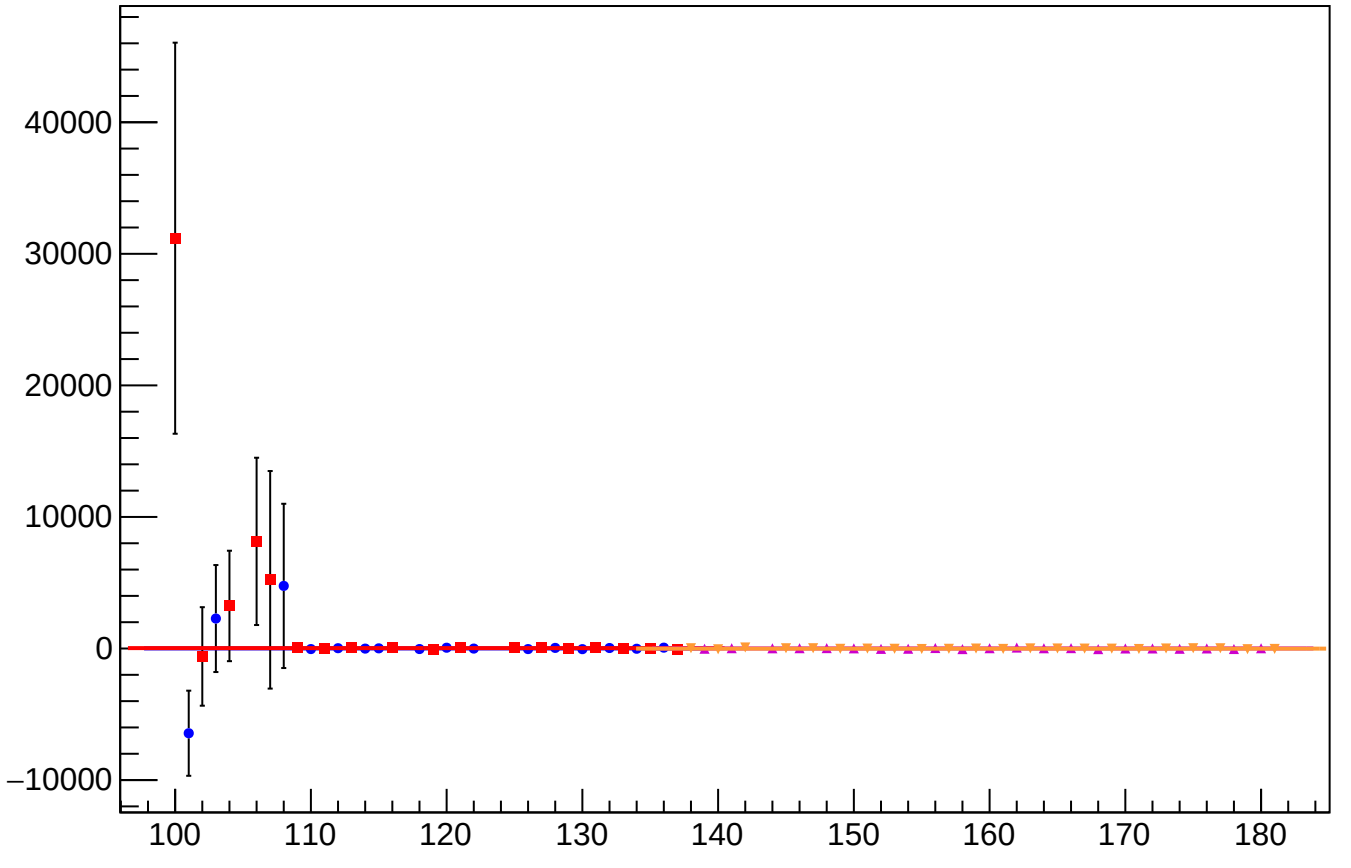
Left: 193.162+/-0.024 $\chi^2$/NDF: 3150585.6/42

Right: 179.998+/-0.041 $\chi^2$/NDF: 8152654.9/33

In: 187.102+/-0.029 $\chi^2$/NDF:5246331.9/36

Out: 192.508+/-0.030 $\chi^2$/NDF:6117667.9/39

All: 189.725+/-0.021 $\chi^2$/NDF: 11380977.1/76




Right In: 6.490+/-11.764 $\chi^2$/NDF: 18.3/15

Left Out: -9.407+/-6.850 $\chi^2$/NDF:15.9/21

Right Out: 30.740+/-12.084 $\chi^2$/NDF: 19.9/17

Left In: 5.610+/-6.939 $\chi^2$/NDF:18.6/20

Left: -1.995+/-4.875 $\chi^2$/NDF: 36.9/42

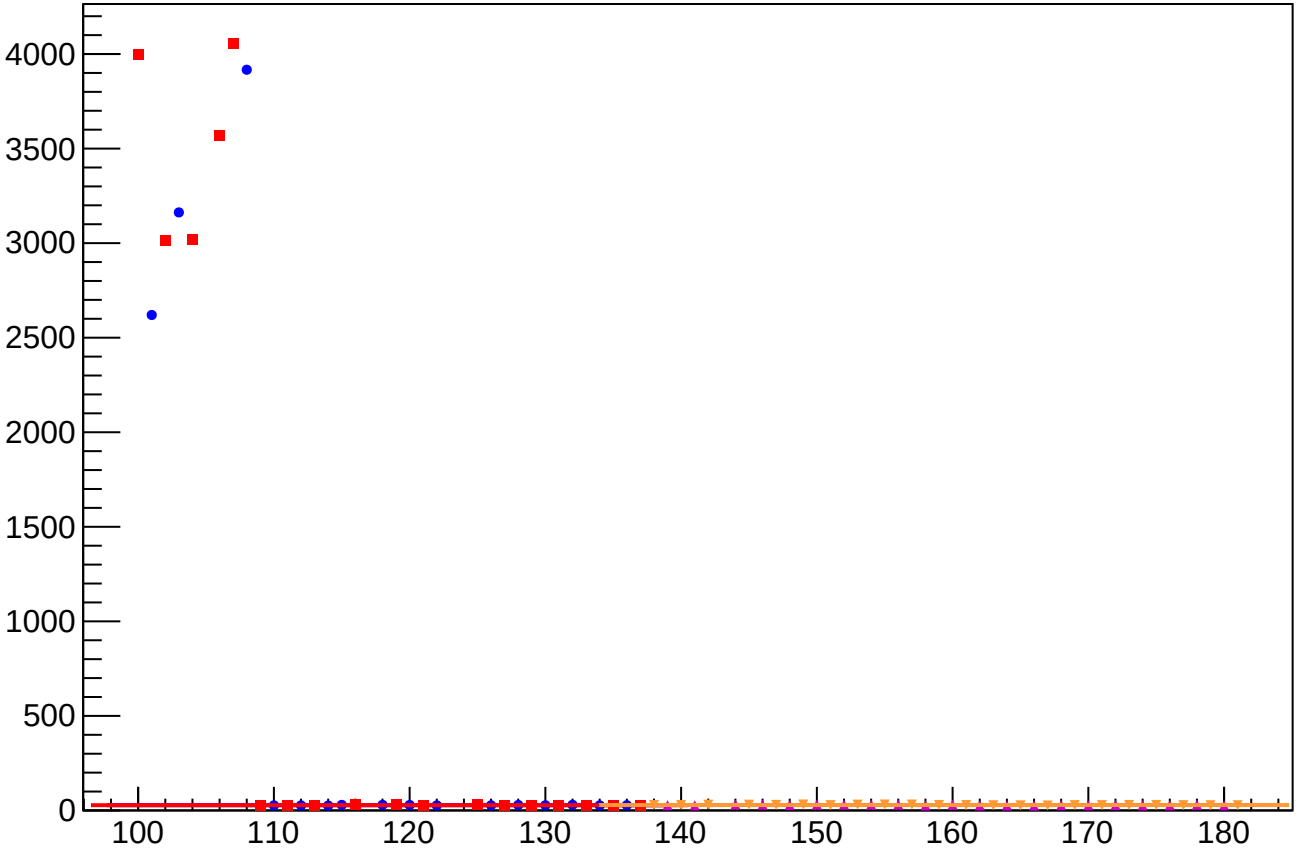
Right: 18.290+/-8.429 $\chi^2$/NDF: 40.2/33

In: 5.837+/-5.977 $\chi^2$/NDF:36.9/36

Out: 0.357+/-5.959 $\chi^2$/NDF:44.1/39

All: 3.089+/-4.220 $\chi^2$/NDF: 81.5/76

asym_bcm_cav4cQ_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 27.825+/-0.008 $\chi^2$/NDF: 3265895.3/15

Left Out: 28.594+/-0.005 $\chi^2$/NDF:80995.9/21

Right Out: 27.778+/-0.009 $\chi^2$/NDF: 3558398.6/17

Left In: 28.716+/-0.005 $\chi^2$/NDF:127183.7/20

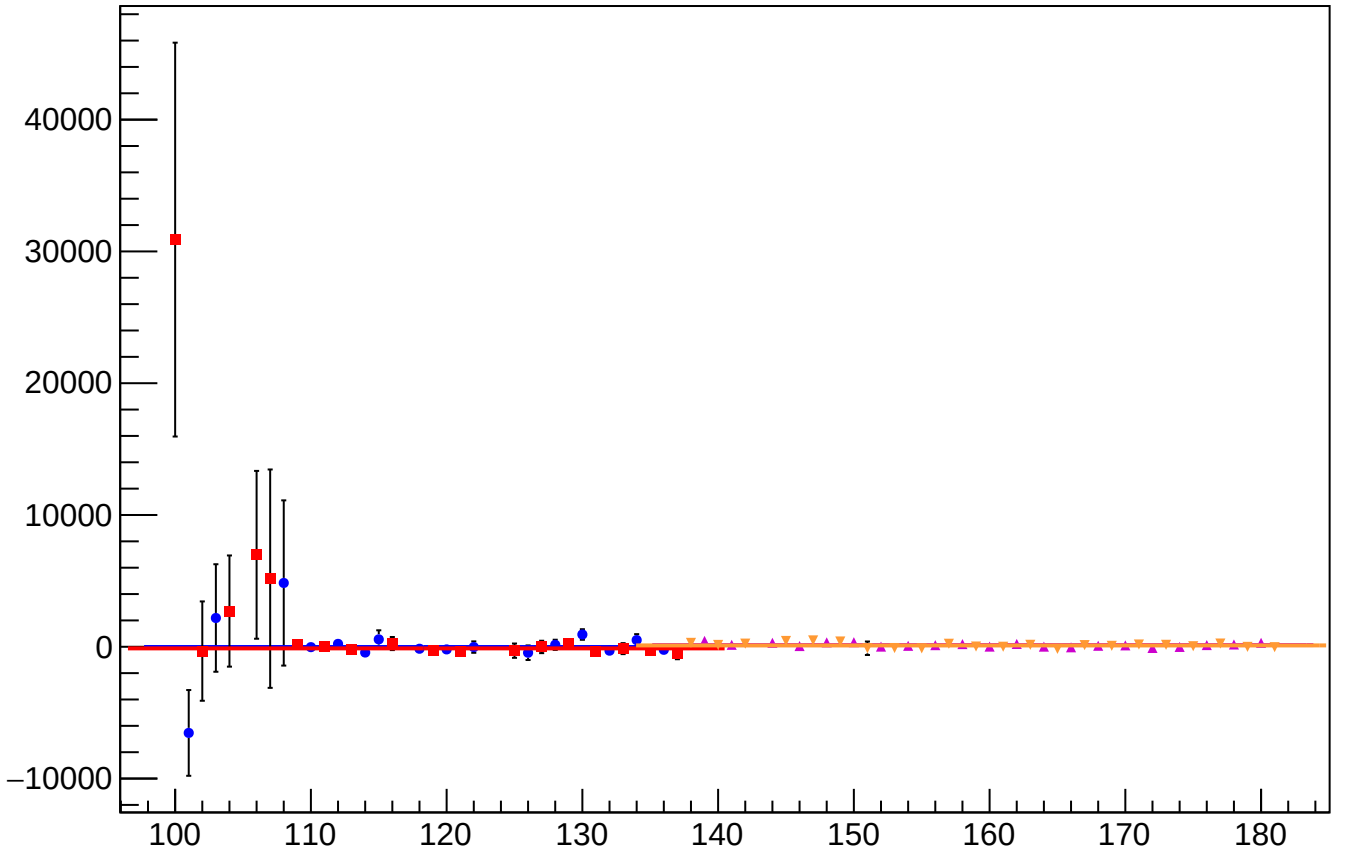
Left: 28.654+/-0.003 $\chi^2$/NDF: 208492.2/42

Right: 27.802+/-0.006 $\chi^2$/NDF: 6824309.2/33

In: 28.486+/-0.004 $\chi^2$/NDF:3401584.7/36

Out: 28.395+/-0.004 $\chi^2$/NDF:3646286.7/39

All: 28.440+/-0.003 $\chi^2$/NDF: 7048100.5/76




Right In: -19.522+/-85.063 $\chi^2$/NDF: 18.2/15

Left Out: 103.705+/-50.372 $\chi^2$/NDF:9.3/21

Right Out: -121.544+/-78.844 $\chi^2$/NDF: 13.2/17

Left In: 131.380+/-47.144 $\chi^2$/NDF:7.4/20

Left: 118.458+/-34.420 $\chi^2$/NDF: 16.9/42

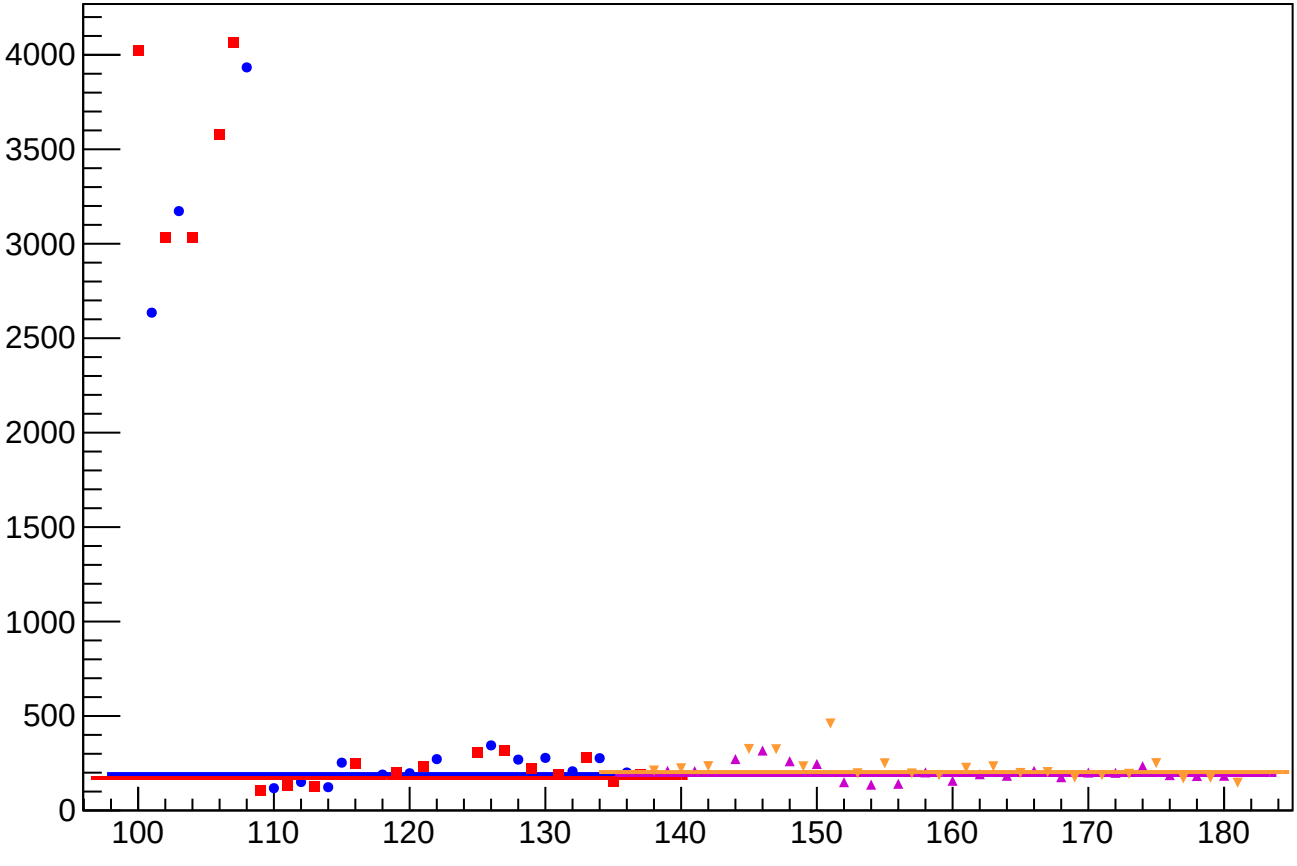
Right: -74.398+/-57.825 $\chi^2$/NDF: 32.2/33

In: 95.920+/-41.234 $\chi^2$/NDF:28.0/36

Out: 38.414+/-42.449 $\chi^2$/NDF:28.4/39

All: 68.001+/-29.577 $\chi^2$/NDF: 57.3/76

asym_bcm_cav4cQ_dg_ds_avg_rms vs Slug, Sign Corrected




Right In: 192.560+/-0.060 $\chi^2$/NDF: 3822789.1/15

Left Out: 203.300+/-0.036 $\chi^2$/NDF:1618070.4/21

Right Out: 171.899+/-0.056 $\chi^2$/NDF: 4247800.5/17

Left In: 187.728+/-0.033 $\chi^2$/NDF:1366568.3/20

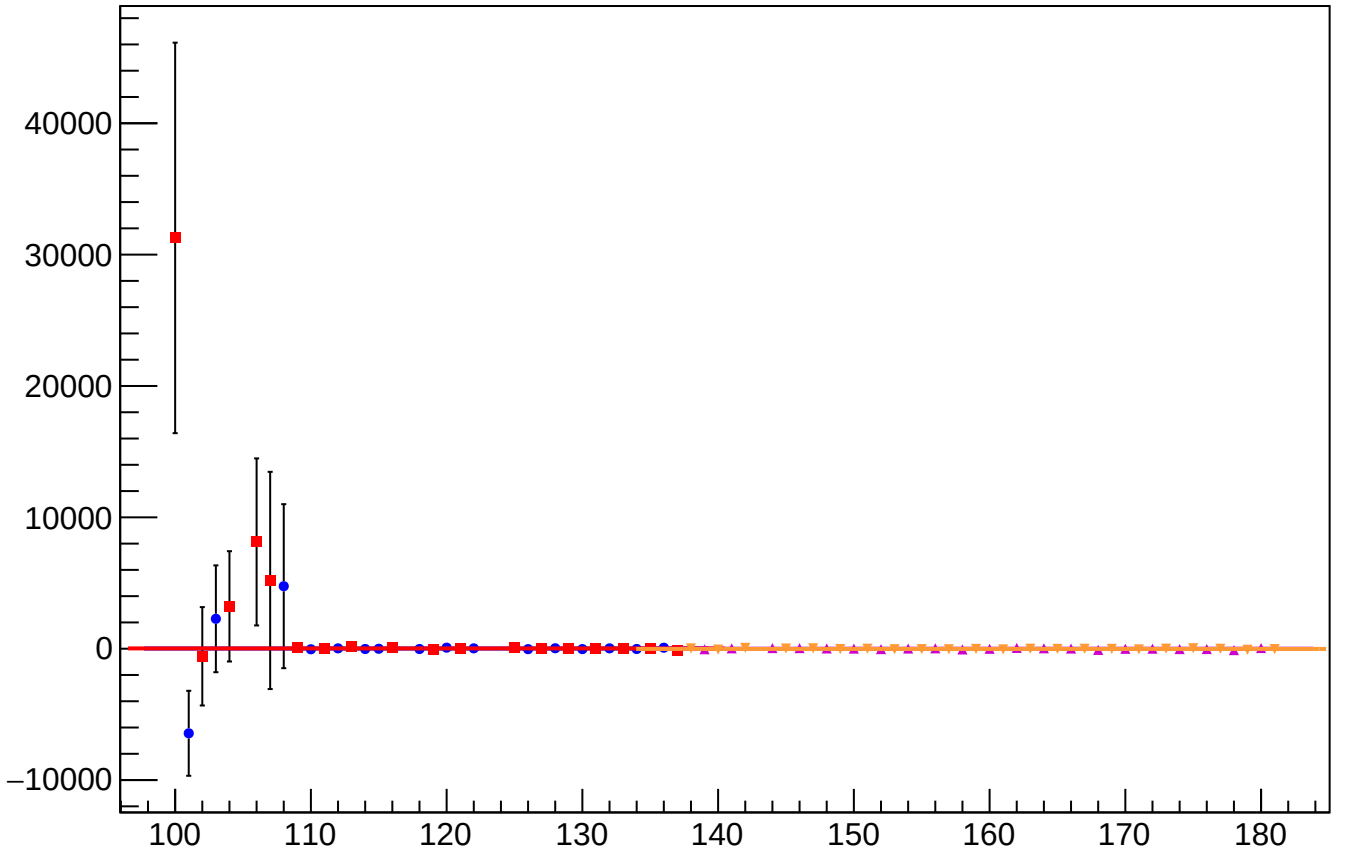
Left: 194.999+/-0.024 $\chi^2$/NDF: 3086536.0/42

Right: 181.447+/-0.041 $\chi^2$/NDF: 8134058.4/33

In: 188.863+/-0.029 $\chi^2$/NDF:5194295.5/36

Out: 194.198+/-0.030 $\chi^2$/NDF:6091160.9/39

All: 191.453+/-0.021 $\chi^2$/NDF: 11301710.7/76




Right In: 13.713+/-13.062 $\chi^2$/NDF: 15.5/15

Left Out: -16.775+/-7.469 $\chi^2$/NDF:19.0/21

Right Out: 21.906+/-13.382 $\chi^2$/NDF: 28.4/17

Left In: -1.605+/-7.566 $\chi^2$/NDF:34.9/20

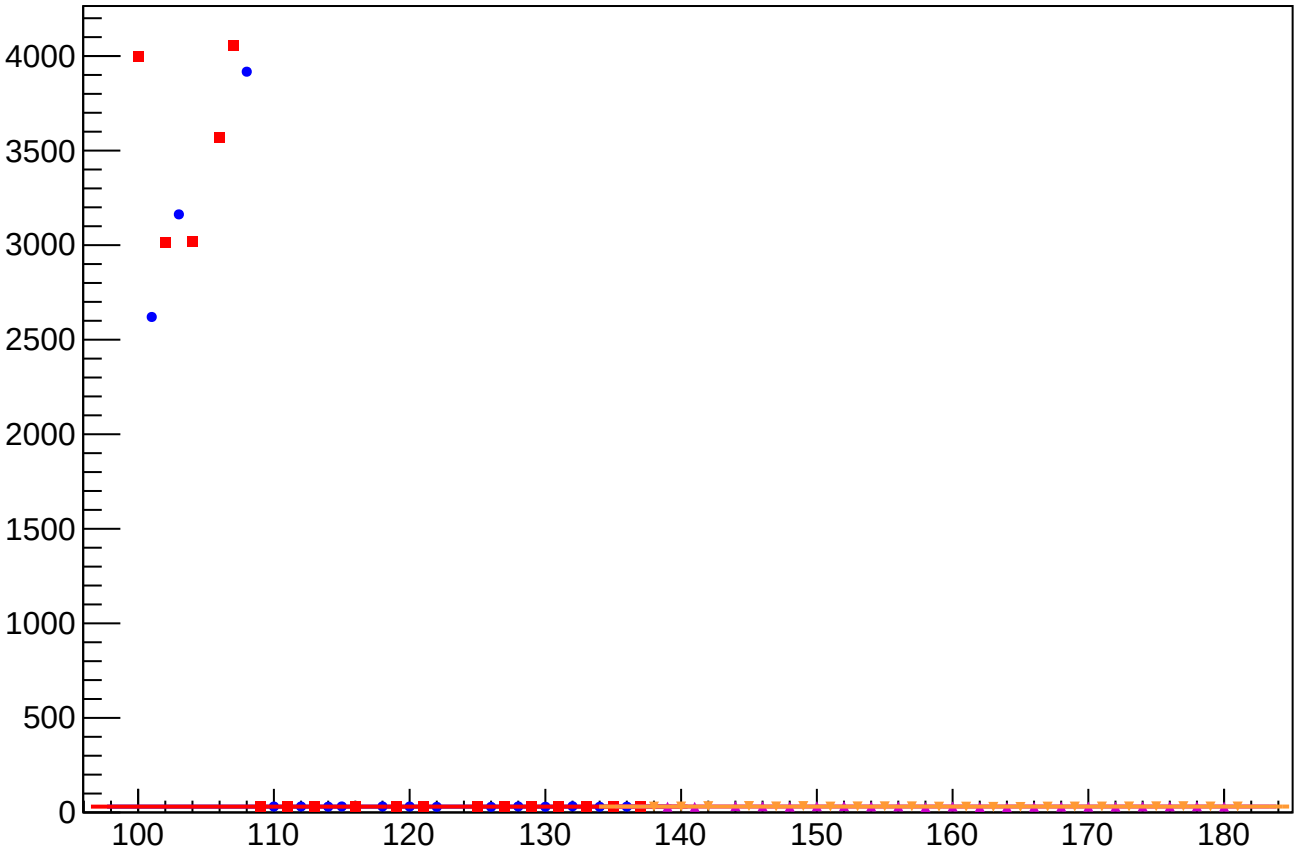
Left: -9.289+/-5.315 $\chi^2$/NDF: 55.9/42

Right: 17.710+/-9.347 $\chi^2$/NDF: 44.0/33

In: 2.243+/-6.547 $\chi^2$/NDF:51.4/36

Out: -7.588+/-6.522 $\chi^2$/NDF:53.8/39

All: -2.692+/-4.621 $\chi^2$/NDF: 106.3/76




Right In: 30.928+/-0.009 $\chi^2$/NDF: 3252607.8/15

Left Out: 31.198+/-0.005 $\chi^2$/NDF:46959.1/21

Right Out: 30.804+/-0.009 $\chi^2$/NDF: 3535959.8/17

Left In: 31.336+/-0.005 $\chi^2$/NDF:83979.6/20

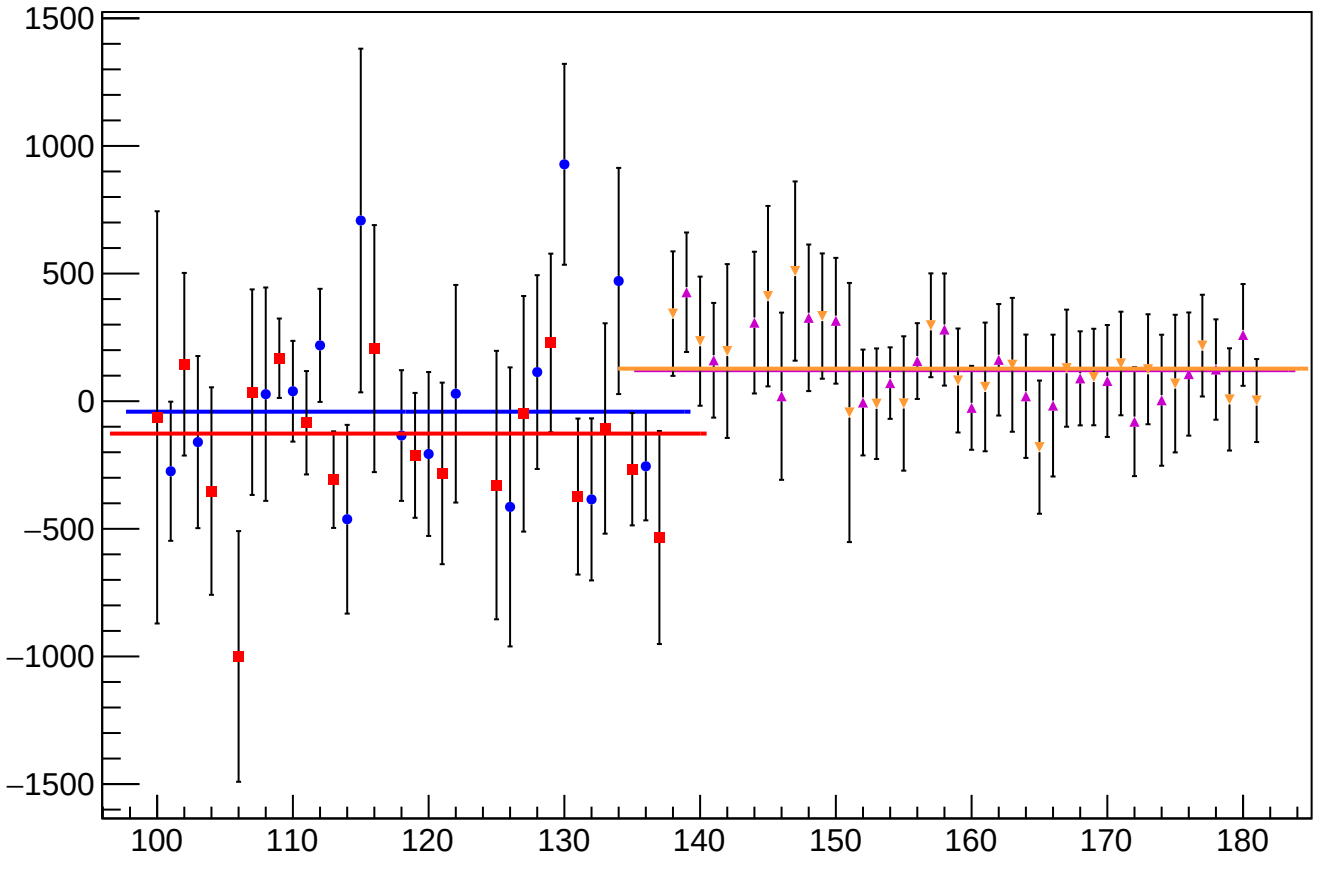
Left: 31.266+/-0.004 $\chi^2$/NDF: 131273.4/42

Right: 30.868+/-0.007 $\chi^2$/NDF: 6788655.9/33

In: 31.233+/-0.005 $\chi^2$/NDF:3338043.6/36

Out: 31.105+/-0.005 $\chi^2$/NDF:3584241.2/39

All: 31.169+/-0.003 $\chi^2$/NDF: 6922673.3/76




Right In: -41.114+/-77.139 $\chi^2$/NDF: 15.6/15

Left Out: 127.477+/-49.930 $\chi^2$/NDF:7.8/21

Right Out: -126.896+/-69.382 $\chi^2$/NDF: 12.8/17

Left In: 121.431+/-45.984 $\chi^2$/NDF:7.4/20

Left: 124.205+/-33.825 $\chi^2$/NDF: 15.2/42

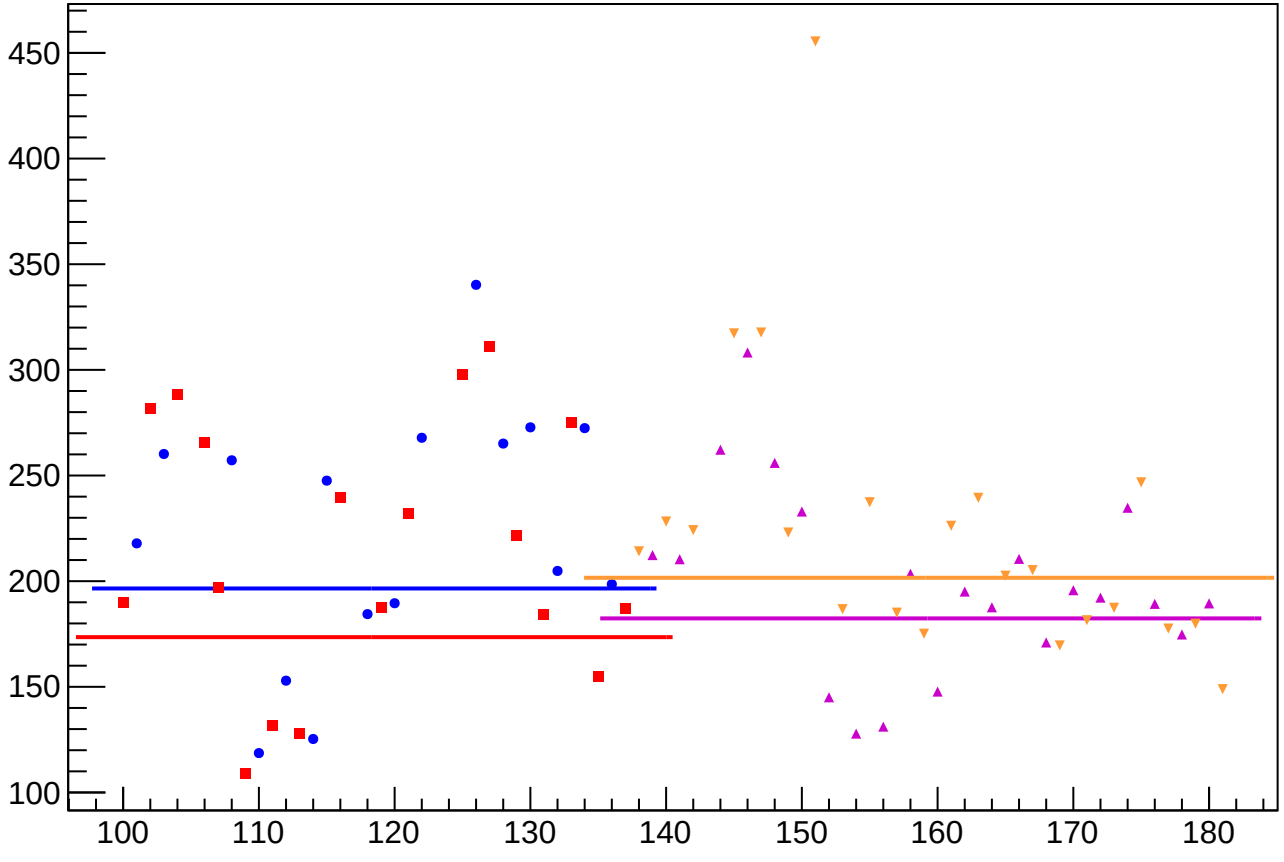
Right: -88.533+/-51.586 $\chi^2$/NDF: 29.1/33

In: 78.813+/-39.498 $\chi^2$/NDF:26.3/36

Out: 40.690+/-40.527 $\chi^2$/NDF:29.4/39

All: 60.241+/-28.286 $\chi^2$/NDF: 56.2/76

# asym_bcm_dg_us_an_us_avg_rms vs Slug, Sign Corrected




Right In: 196.542+/-0.055 $\chi^2$/NDF: 1000770.4/15

Left Out: 201.614+/-0.035 $\chi^2$/NDF:1543143.1/21

Right Out: 173.509+/-0.049 $\chi^2$/NDF: 1532720.5/17

Left In: 182.380+/-0.033 $\chi^2$/NDF:1590948.1/20

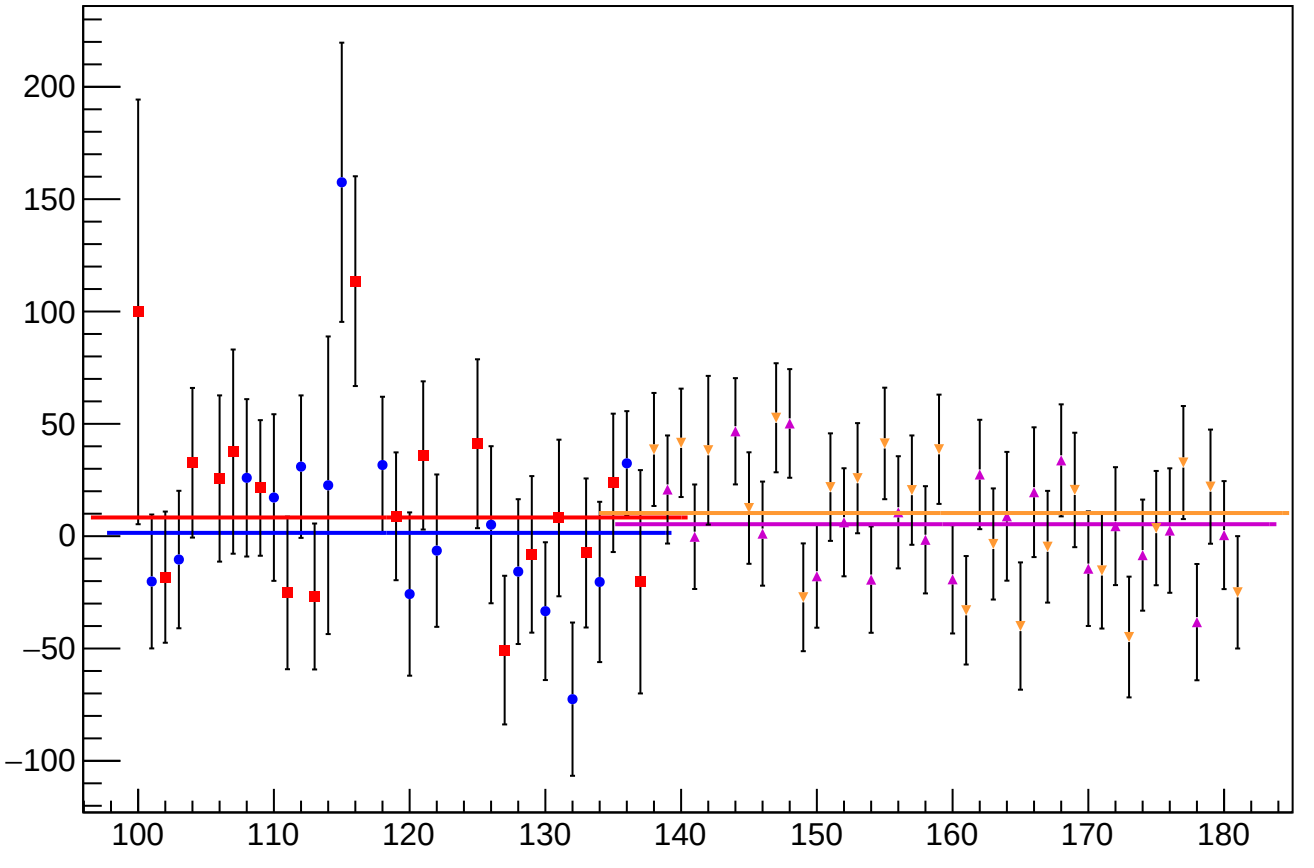
Left: 191.207+/-0.024 $\chi^2$/NDF: 3294677.6/42

Right: 183.810+/-0.036 $\chi^2$/NDF: 2632060.1/33

In: 186.093+/-0.028 $\chi^2$/NDF:2641457.4/36

Out: 192.025+/-0.029 $\chi^2$/NDF:3292064.1/39

All: 188.983+/-0.020 $\chi^2$/NDF: 5955497.9/76




Right In: 1.475+/-8.370 $\chi^2$/NDF: 18.7/15

Left Out: 10.306+/-5.377 $\chi^2$/NDF:28.4/21

Right Out: 8.329+/-8.286 $\chi^2$/NDF: 16.0/17

Left In: 5.326+/-5.399 $\chi^2$/NDF:16.5/20

Left: 7.826+/-3.810 $\chi^2$/NDF: 45.2/42

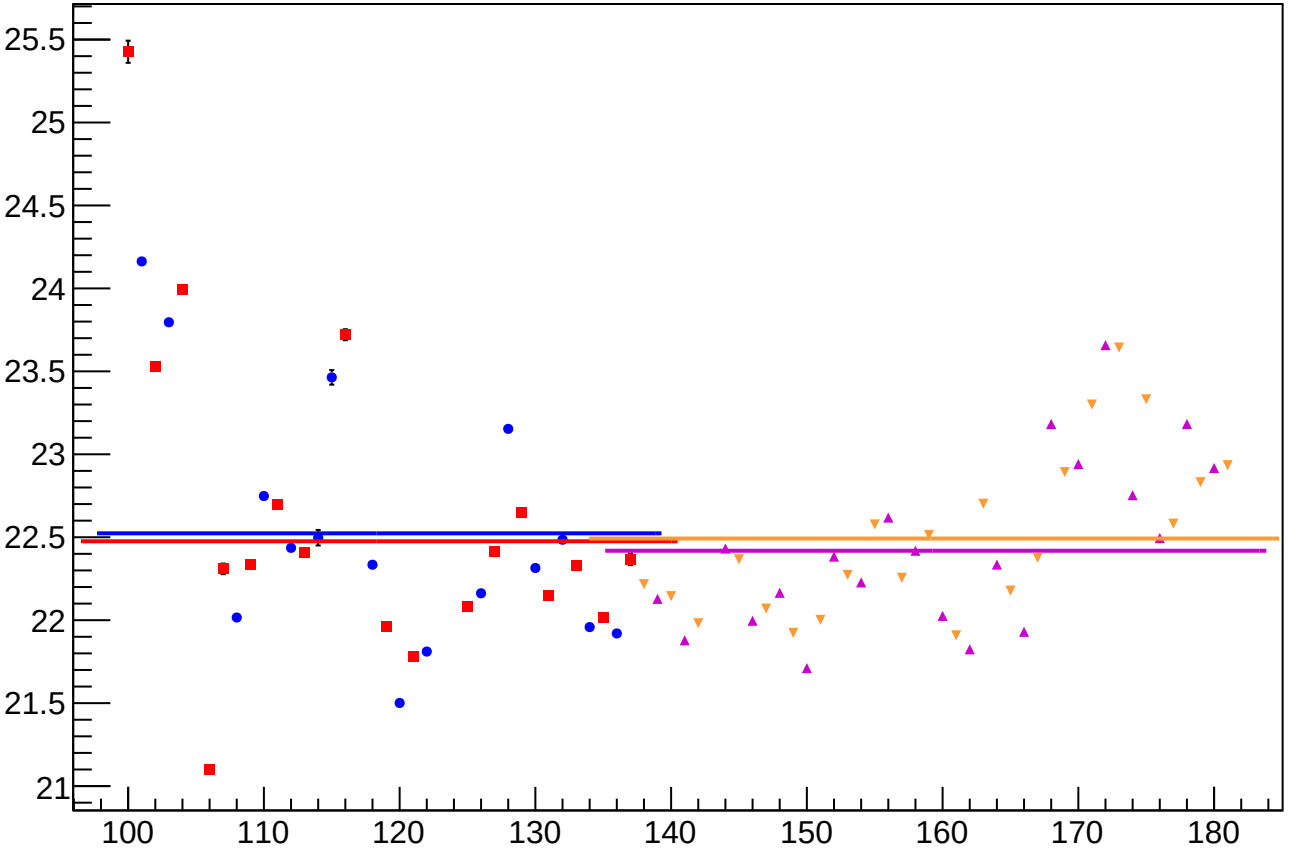
Right: 4.937+/-5.889 $\chi^2$/NDF: 35.0/33

In: 4.194+/-4.537 $\chi^2$/NDF:35.3/36

Out: 9.720+/-4.510 $\chi^2$/NDF:44.4/39

All: 6.974+/-3.199 $\chi^2$/NDF: 80.5/76

# asym_bcm_dg_us_an_us_dd_rms vs Slug, Sign Corrected




Right In: 22.524+/-0.006 $\chi^2$/NDF: 15947.8/15

Left Out: 22.492+/-0.004 $\chi^2$/NDF:15024.2/21

Right Out: 22.476+/-0.006 $\chi^2$/NDF: 15536.6/17

Left In: 22.419+/-0.004 $\chi^2$/NDF:16899.6/20

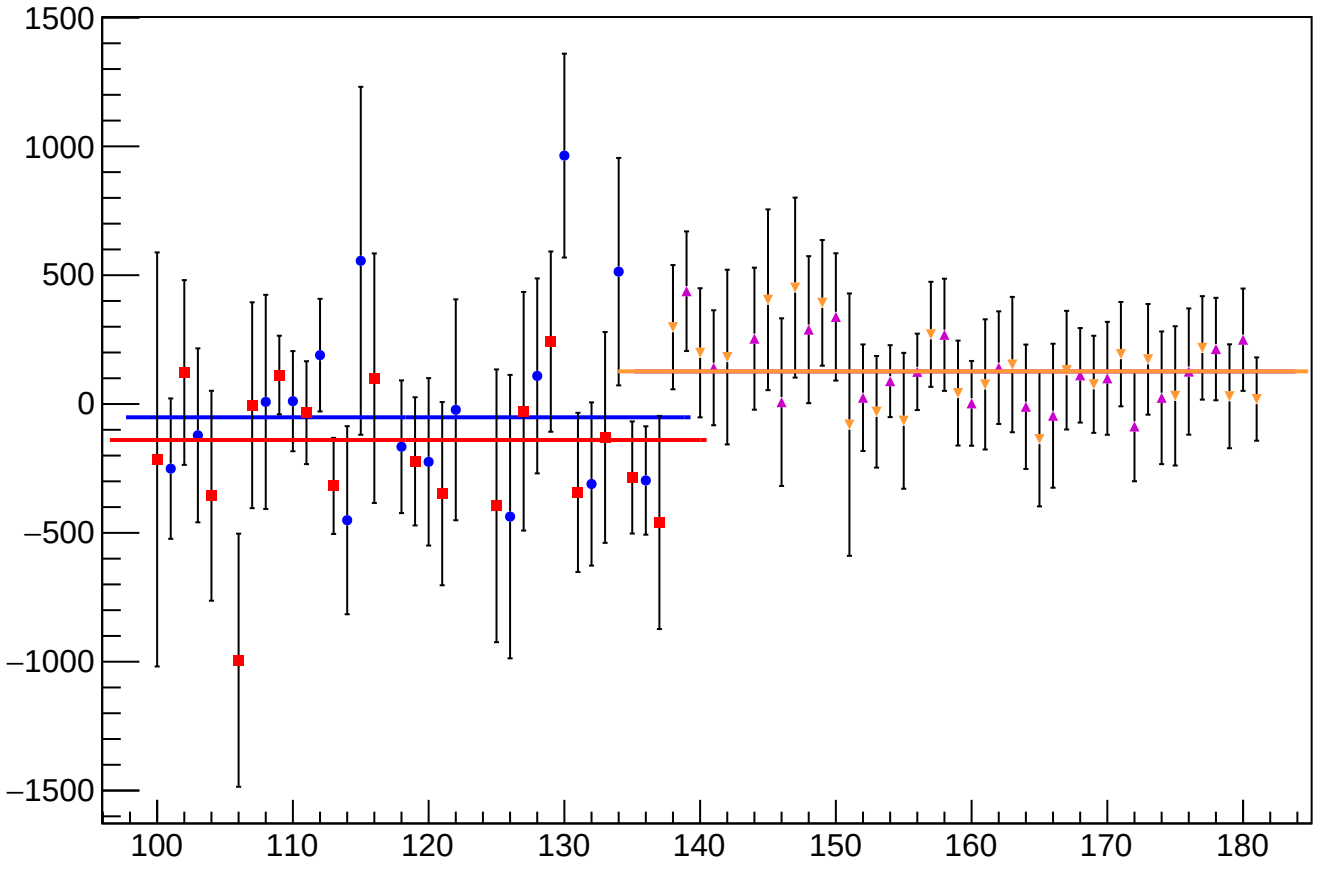
Left: 22.456+/-0.003 $\chi^2$/NDF: 32110.2/42

Right: 22.499+/-0.004 $\chi^2$/NDF: 31517.5/33

In: 22.449+/-0.003 $\chi^2$/NDF:33069.3/36

Out: 22.487+/-0.003 $\chi^2$/NDF:30566.4/39

All: 22.469+/-0.002 $\chi^2$/NDF: 63705.6/76




Right In: -51.492+/-76.798 $\chi^2$/NDF: 15.3/15

Left Out: 126.842+/-49.877 $\chi^2$/NDF:7.5/21

Right Out: -139.546+/-68.888 $\chi^2$/NDF: 11.6/17

Left In: 126.321+/-45.923 $\chi^2$/NDF:7.0/20

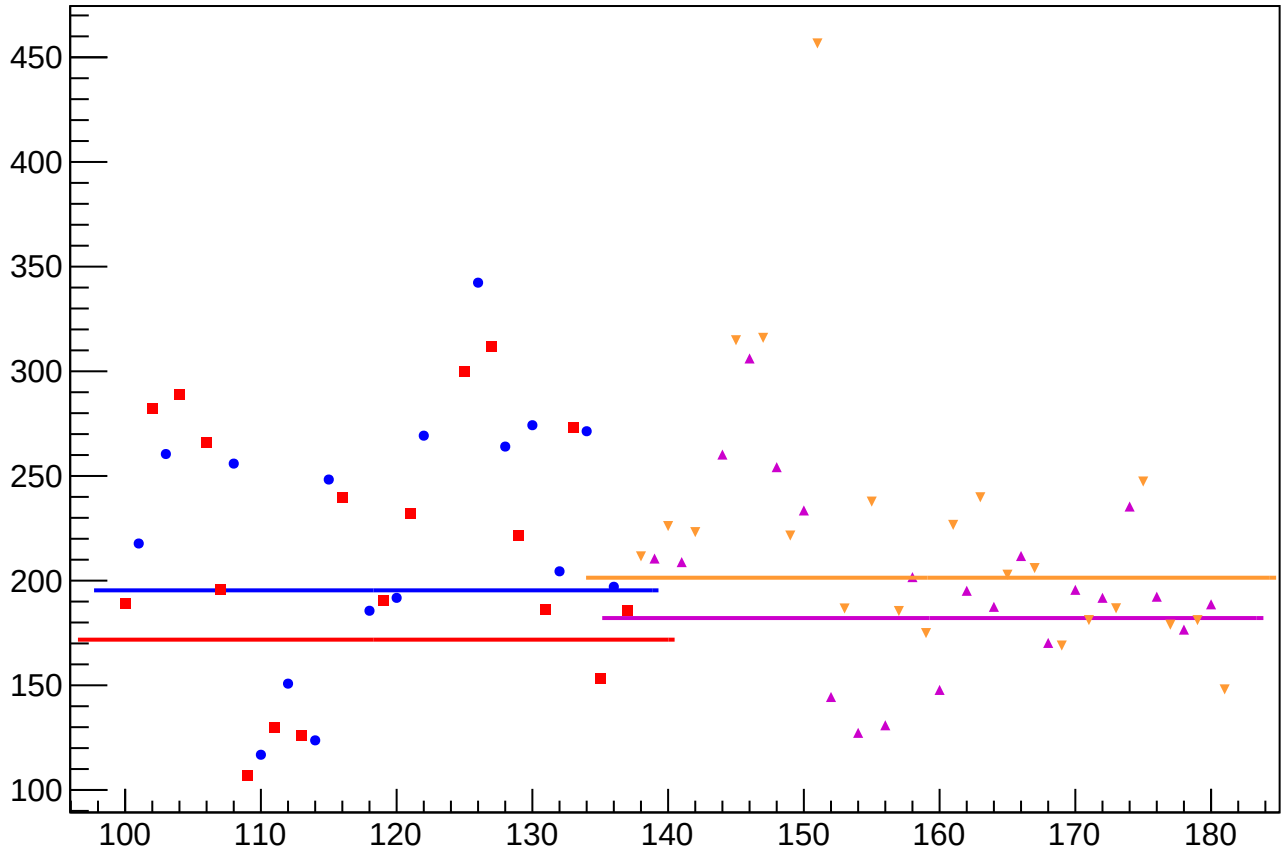
Left: 126.560+/-33.784 $\chi^2$/NDF: 14.5/42

Right: -100.285+/-51.280 $\chi^2$/NDF: 27.6/33

In: 79.487+/-39.414 $\chi^2$/NDF:26.3/36

Out: 35.224+/-40.400 $\chi^2$/NDF:28.8/39

All: 57.902+/-28.212 $\chi^2$/NDF: 55.7/76




Right In: 195.361+/-0.054 $\chi^2$/NDF: 1041432.1/15

Left Out: 201.395+/-0.035 $\chi^2$/NDF:1537955.6/21

Right Out: 171.805+/-0.049 $\chi^2$/NDF: 1600663.6/17

Left In: 182.124+/-0.032 $\chi^2$/NDF:1584794.7/20

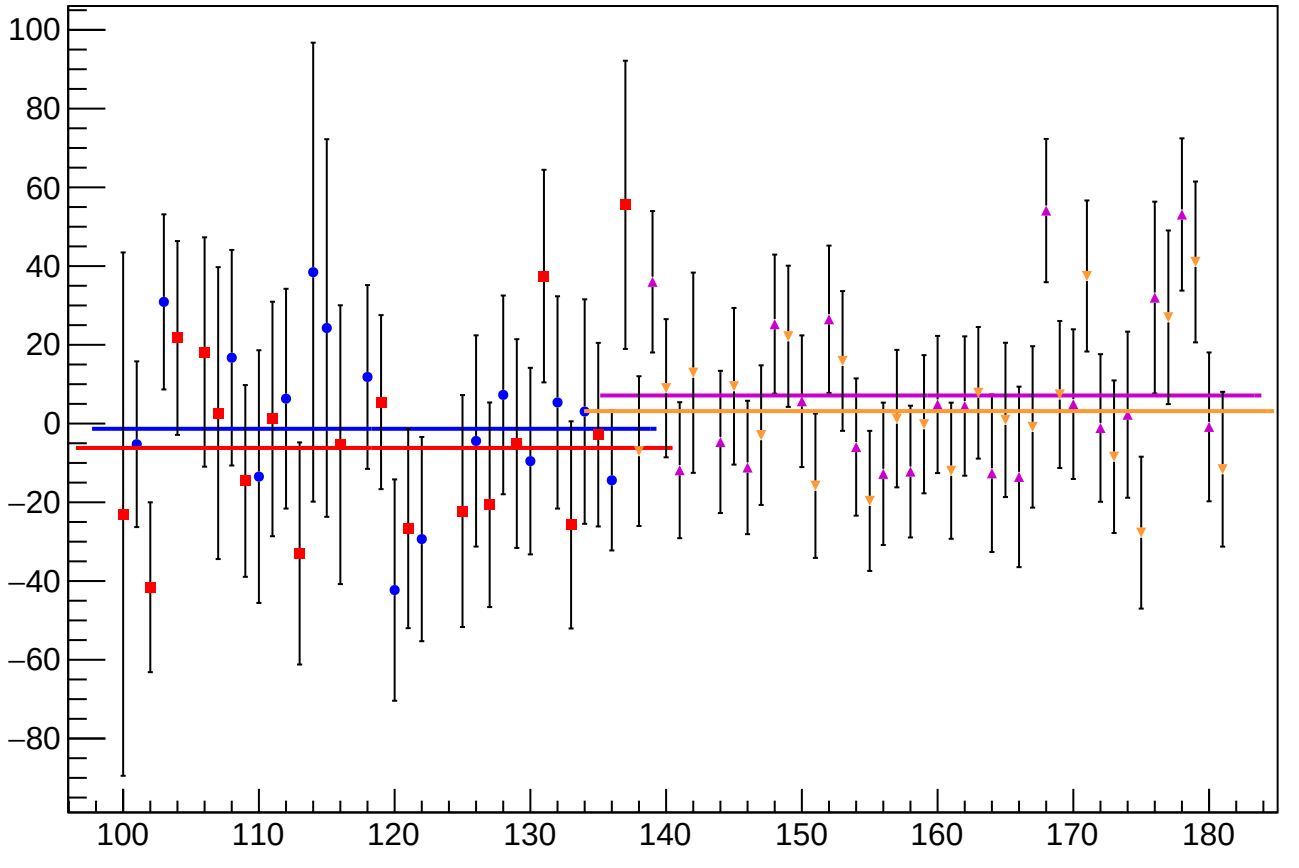
Left: 190.965+/-0.024 $\chi^2$/NDF: 3284342.6/42

Right: 182.308+/-0.036 $\chi^2$/NDF: 2746362.8/33

In: 185.610+/-0.028 $\chi^2$/NDF:2669995.4/36

Out: 191.218+/-0.029 $\chi^2$/NDF:3380716.5/39

All: 188.345+/-0.020 $\chi^2$/NDF: 6070457.3/76




Right In: -1.331+/-6.499 $\chi^2$/NDF: 8.0/15

Left Out: 3.165+/-4.013 $\chi^2$/NDF:17.4/21

Right Out: -6.195+/-6.473 $\chi^2$/NDF: 13.5/17

Left In: 7.135+/-4.033 $\chi^2$/NDF:26.2/20

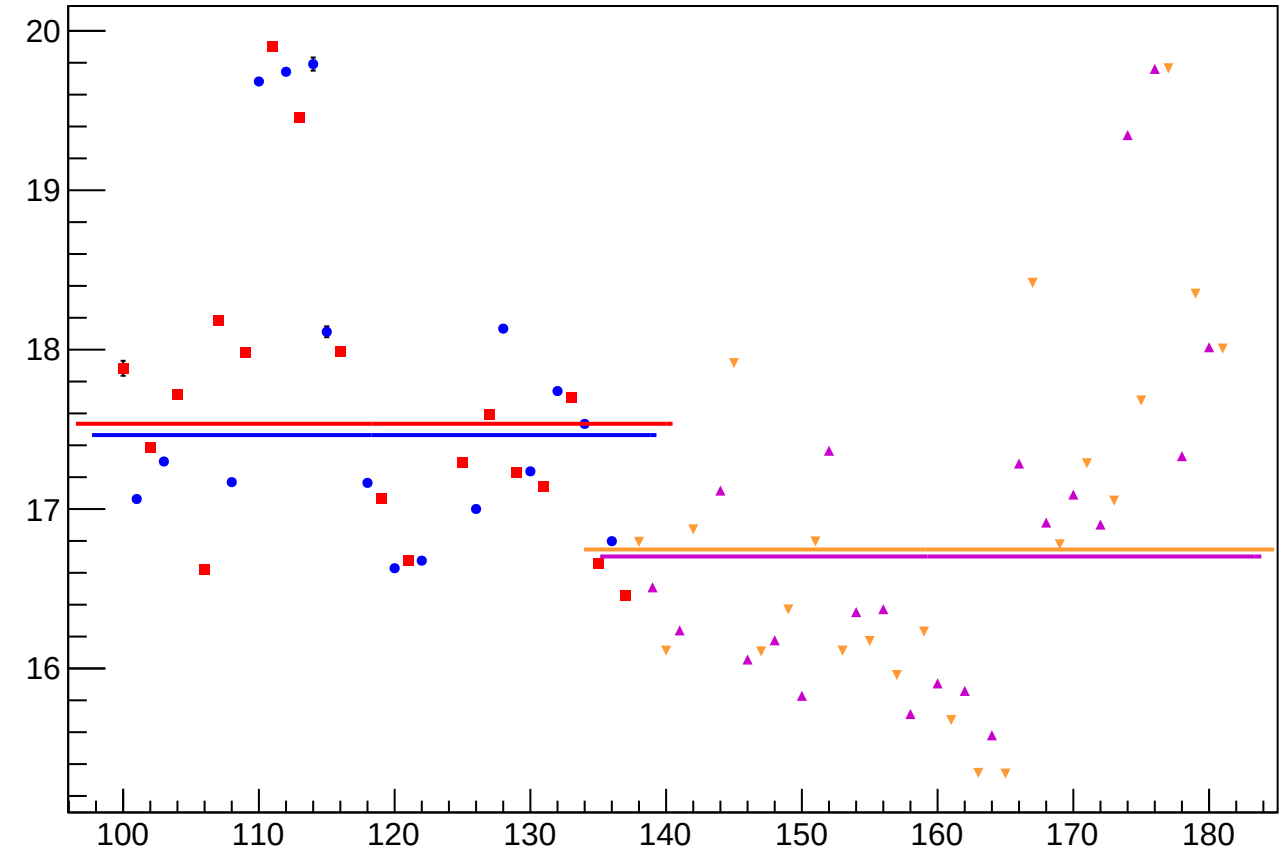
Left: 5.140+/-2.845 $\chi^2$/NDF: 44.1/42

Right: -3.773+/-4.586 $\chi^2$/NDF: 21.8/33

In: 4.781+/-3.427 $\chi^2$/NDF:35.5/36

Out: 0.566+/-3.411 $\chi^2$/NDF:32.4/39

All: 2.664+/-2.417 $\chi^2$/NDF: 68.6/76




Right In: 17.464+/-0.005 $\chi^2$/NDF: 36650.1/15

Left Out: 16.746+/-0.003 $\chi^2$/NDF:133676.7/21

Right Out: 17.535+/-0.005 $\chi^2$/NDF: 34475.1/17

Left In: 16.702+/-0.003 $\chi^2$/NDF:116179.5/20

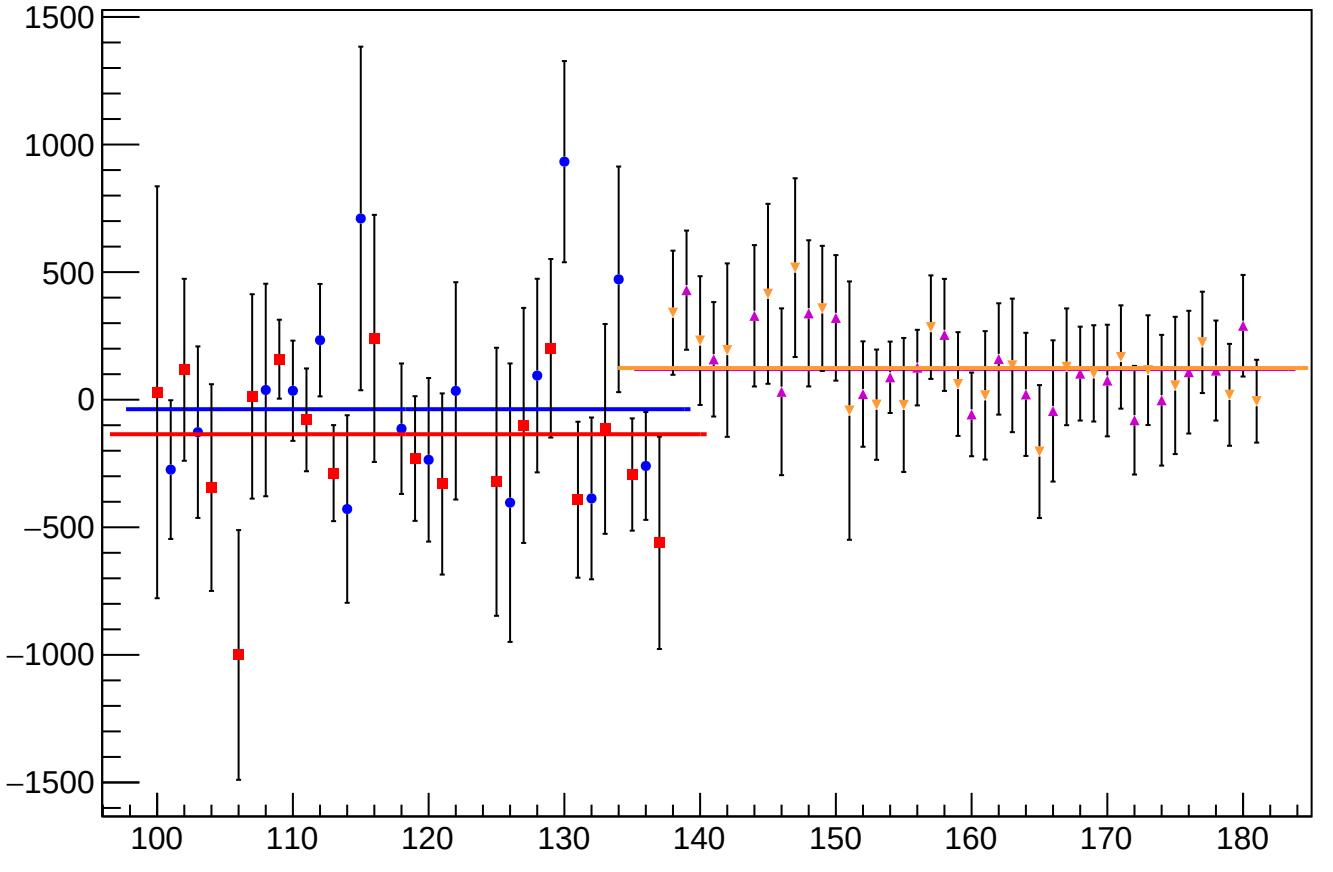
Left: 16.724+/-0.002 $\chi^2$/NDF: 249975.6/42

Right: 17.500+/-0.003 $\chi^2$/NDF: 71244.5/33

In: 16.914+/-0.002 $\chi^2$/NDF:172671.6/36

Out: 16.965+/-0.002 $\chi^2$/NDF:189599.6/39

All: 16.940+/-0.002 $\chi^2$/NDF: 362495.1/76




Right In: -37.241+/-76.915 $\chi^2$/NDF: 15.6/15

Left Out: 124.118+/-49.818 $\chi^2$/NDF:8.5/21

Right Out: -135.279+/-69.157 $\chi^2$/NDF: 12.8/17

Left In: 119.965+/-45.891 $\chi^2$/NDF:7.9/20

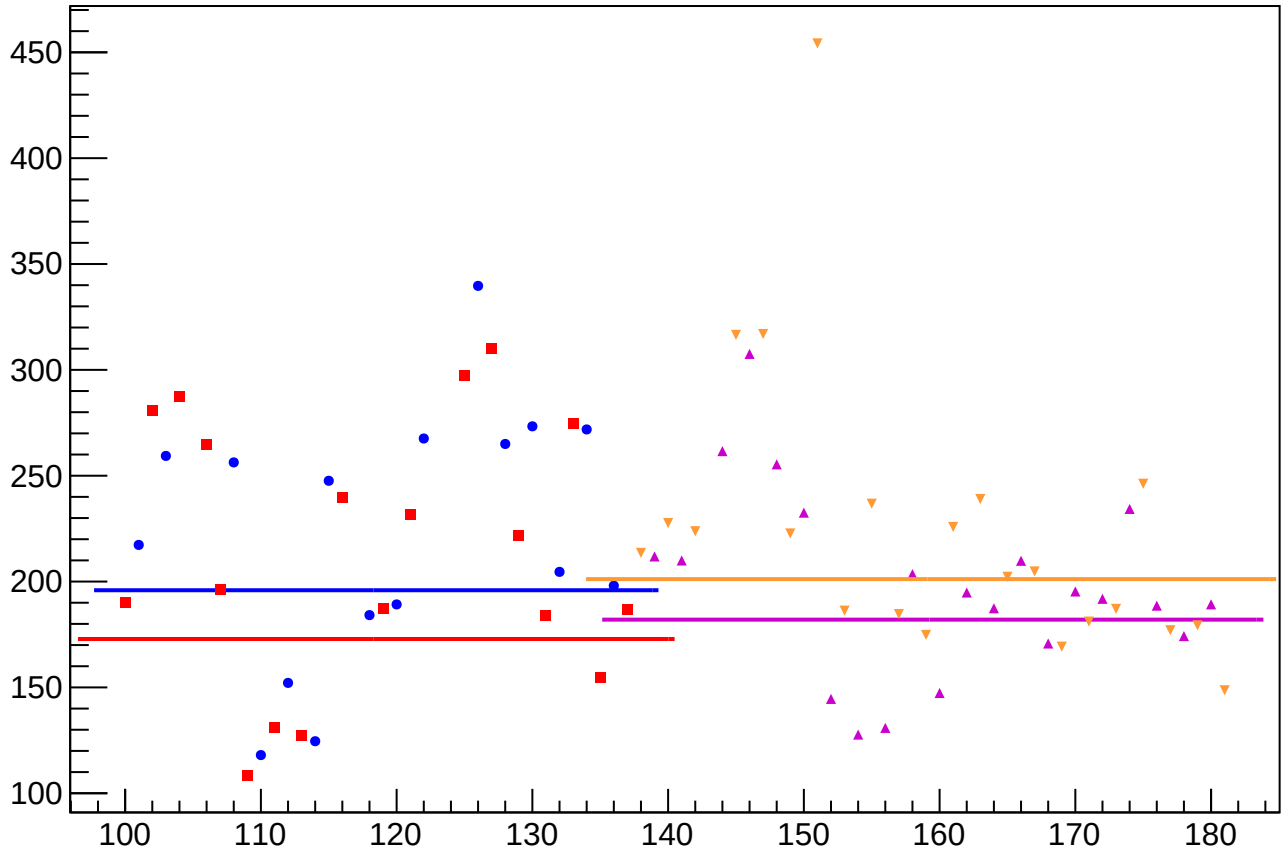
Left: 121.871+/-33.753 $\chi^2$/NDF: 16.5/42

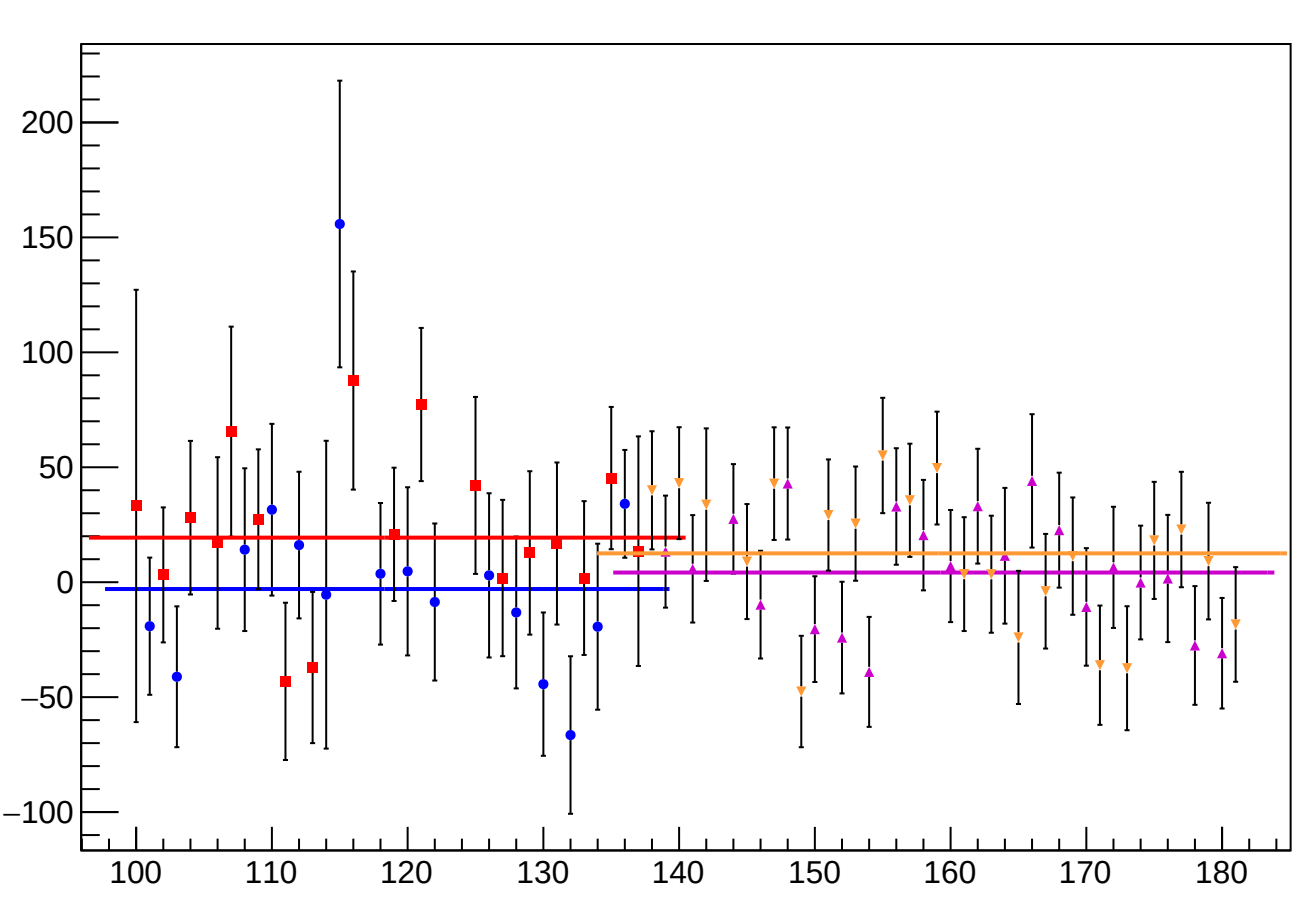
Right: -91.452+/-51.426 $\chi^2$/NDF: 29.3/33

In: 78.693+/-39.410 $\chi^2$/NDF:26.7/36

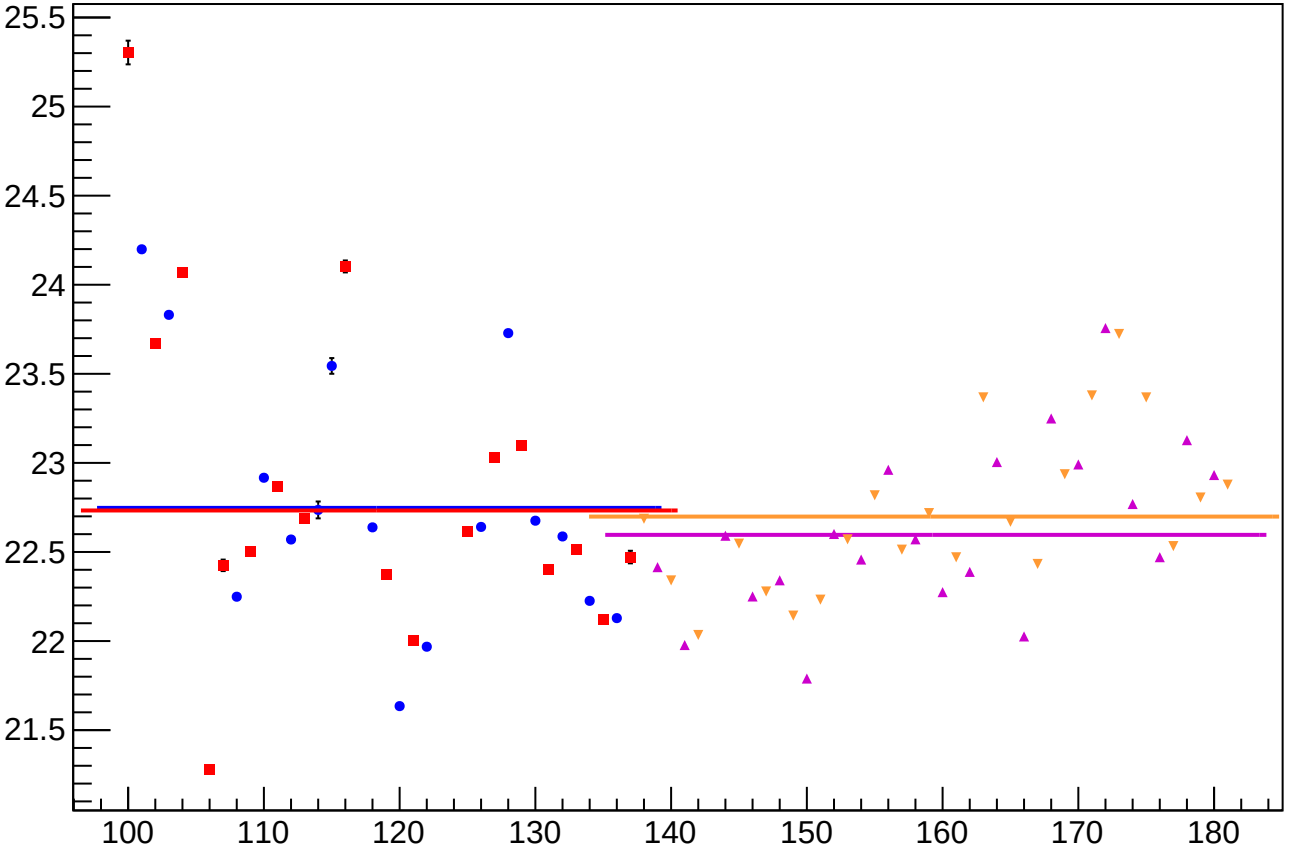
Out: 35.500+/-40.422 $\chi^2$/NDF:30.6/39

All: 57.644+/-28.218 $\chi^2$/NDF: 57.8/76


asym_bcm_dg_us_an_ds_avg_rms vs Slug, Sign Corrected
450
400
350
300
250
200
150
100
100
110
120
130
140
150
160
170
180
Right In: 195.900+/-0.054 χ²/NDF: 1011012.3/15
Left Out: 201.164+/-0.035 χ²/NDF:1542695.1/21
Right Out: 172.873+/-0.049 χ²/NDF: 1543258.3/17
Left In: 182.012+/-0.032 χ²/NDF:1591040.5/20
Left: 190.804+/-0.024 χ²/NDF: 3293636.6/42
Right: 183.167+/-0.036 χ²/NDF: 2653391.3/33
In: 185.658+/-0.028 χ²/NDF:2650135.6/36
Out: 191.499+/-0.029 χ²/NDF:3306311.2/39
All: 188.505+/-0.020 χ²/NDF: 5977855.9/76


asym_bcm_dg_us_an_ds_dd_mean vs Slug, Sign Corrected
200
150
100
50
0
−50
−100
100
110
120
130
140
150
160
170
180
Right In: -2.967+/-8.454 χ²/NDF: 17.9/15
Left Out: 12.551+/-5.426 χ²/NDF:28.6/21
Right Out: 19.387+/-8.381 χ²/NDF: 14.5/17
Left In: 4.204+/-5.442 χ²/NDF:19.4/20
Left: 8.390+/-3.843 χ²/NDF: 49.2/42
Right: 8.306+/-5.952 χ²/NDF: 36.0/33
In: 2.103+/-4.576 χ²/NDF:37.8/36
Out: 14.570+/-4.555 χ²/NDF:43.6/39
All: 8.365+/-3.228 χ²/NDF: 85.2/76

# asym_bcm_dg_us_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 22.747+/-0.006 $\chi^2$/NDF: 14622.8/15

Left Out: 22.699+/-0.004 $\chi^2$/NDF:11730.1/21

Right Out: 22.733+/-0.006 $\chi^2$/NDF: 14389.6/17

Left In: 22.596+/-0.004 $\chi^2$/NDF:13851.7/20

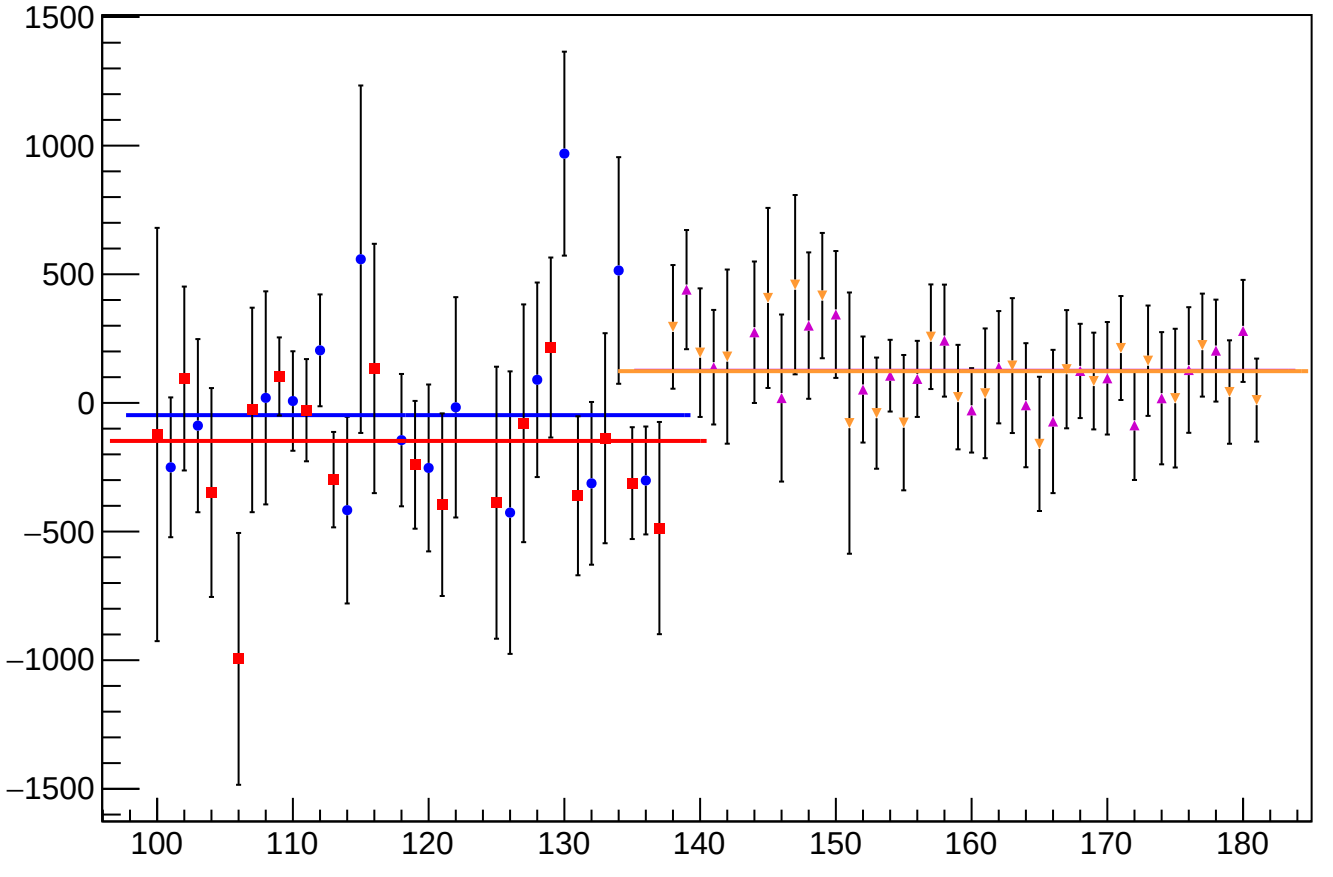
Left: 22.647+/-0.003 $\chi^2$/NDF: 25938.3/42

Right: 22.740+/-0.004 $\chi^2$/NDF: 29015.4/33

In: 22.640+/-0.003 $\chi^2$/NDF:28928.1/36

Out: 22.709+/-0.003 $\chi^2$/NDF:26143.3/39

All: 22.675+/-0.002 $\chi^2$/NDF: 55295.6/76




Right In: -47.523+/-76.571 $\chi^2$/NDF: 15.4/15

Left Out: 123.403+/-49.765 $\chi^2$/NDF:8.3/21

Right Out: -147.812+/-68.660 $\chi^2$/NDF: 11.5/17

Left In: 124.938+/-45.831 $\chi^2$/NDF:7.6/20

Left: 124.233+/-33.712 $\chi^2$/NDF: 15.8/42

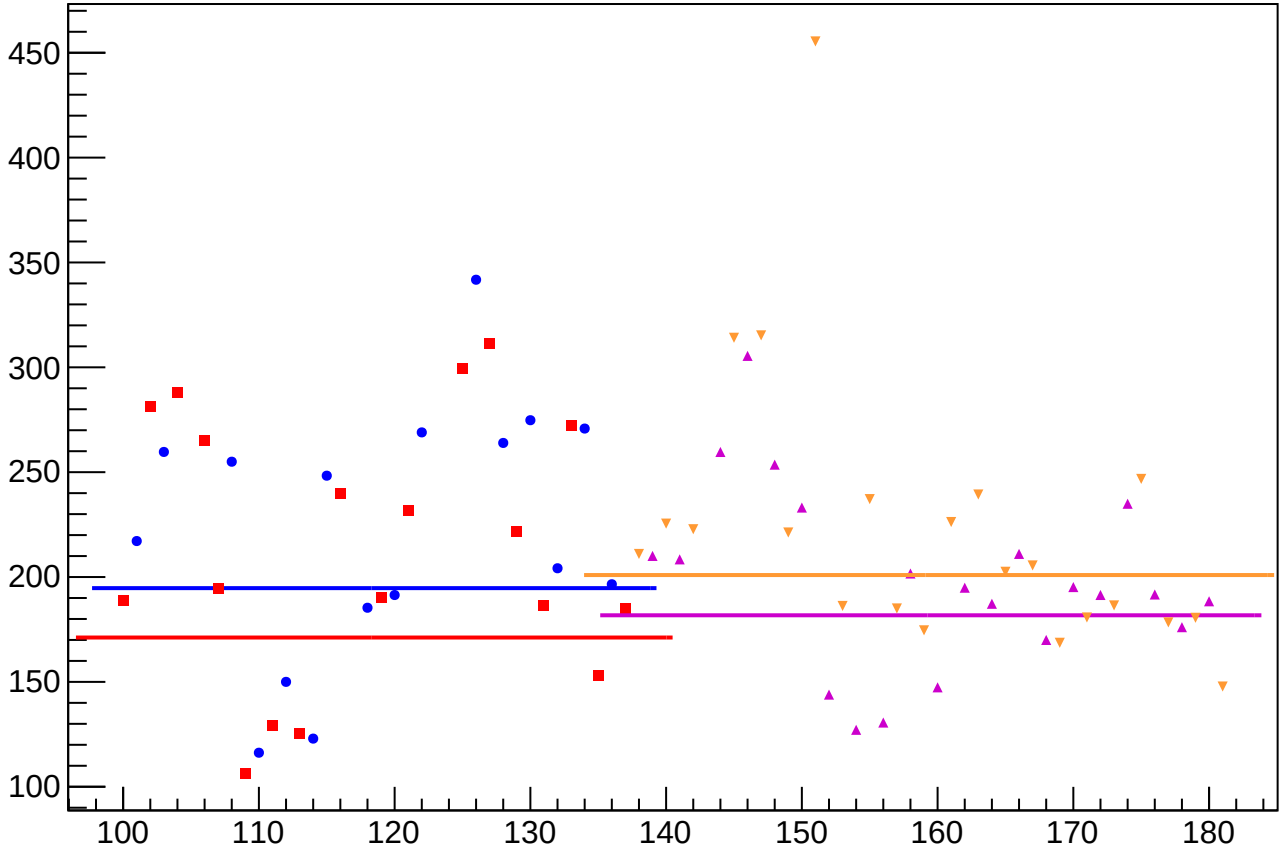
Right: -103.114+/-51.119 $\chi^2$/NDF: 27.9/33

In: 79.450+/-39.325 $\chi^2$/NDF:26.7/36

Out: 29.993+/-40.294 $\chi^2$/NDF:30.0/39

All: 55.324+/-28.143 $\chi^2$/NDF: 57.5/76

# asym_bcm_dg_ds_an_ds_avg_rms vs Slug, Sign Corrected




Right In: 194.708+/-0.054 $\chi^2$/NDF: 1052288.9/15

Left Out: 200.945+/-0.035 $\chi^2$/NDF:1537511.6/21

Right Out: 171.156+/-0.049 $\chi^2$/NDF: 1611935.6/17

Left In: 181.759+/-0.032 $\chi^2$/NDF:1584647.7/20

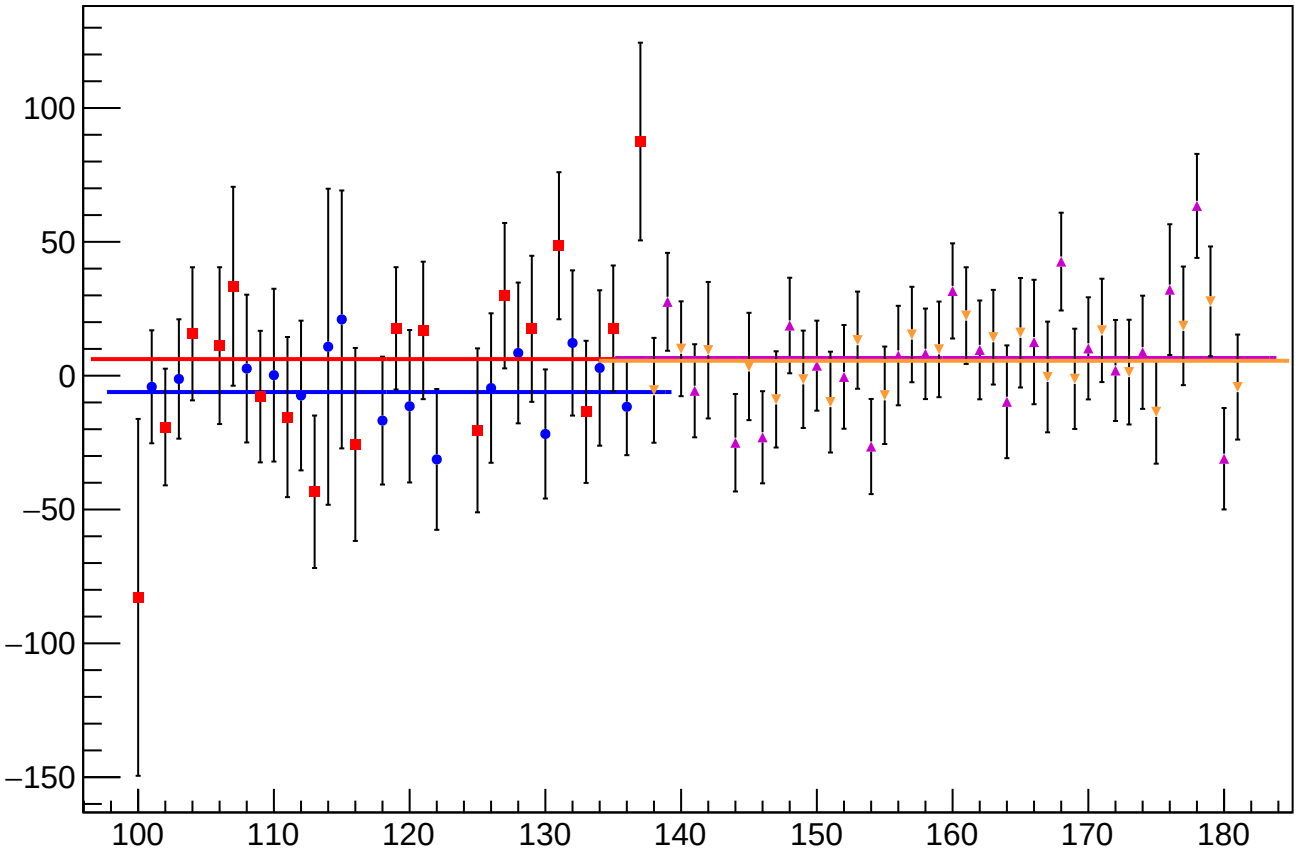
Left: 190.564+/-0.024 $\chi^2$/NDF: 3283009.5/42

Right: 181.653+/-0.036 $\chi^2$/NDF: 2769105.7/33

In: 185.174+/-0.028 $\chi^2$/NDF:2679048.0/36

Out: 190.685+/-0.028 $\chi^2$/NDF:3396255.4/39

All: 187.863+/-0.020 $\chi^2$/NDF: 6094465.5/76




Right In: -6.119+/-6.592 $\chi^2$/NDF: 3.1/15

Left Out: 5.567+/-4.086 $\chi^2$/NDF:7.6/21

Right Out: 6.195+/-6.580 $\chi^2$/NDF: 18.6/17

Left In: 6.604+/-4.093 $\chi^2$/NDF:32.2/20

Left: 6.085+/-2.892 $\chi^2$/NDF: 39.8/42

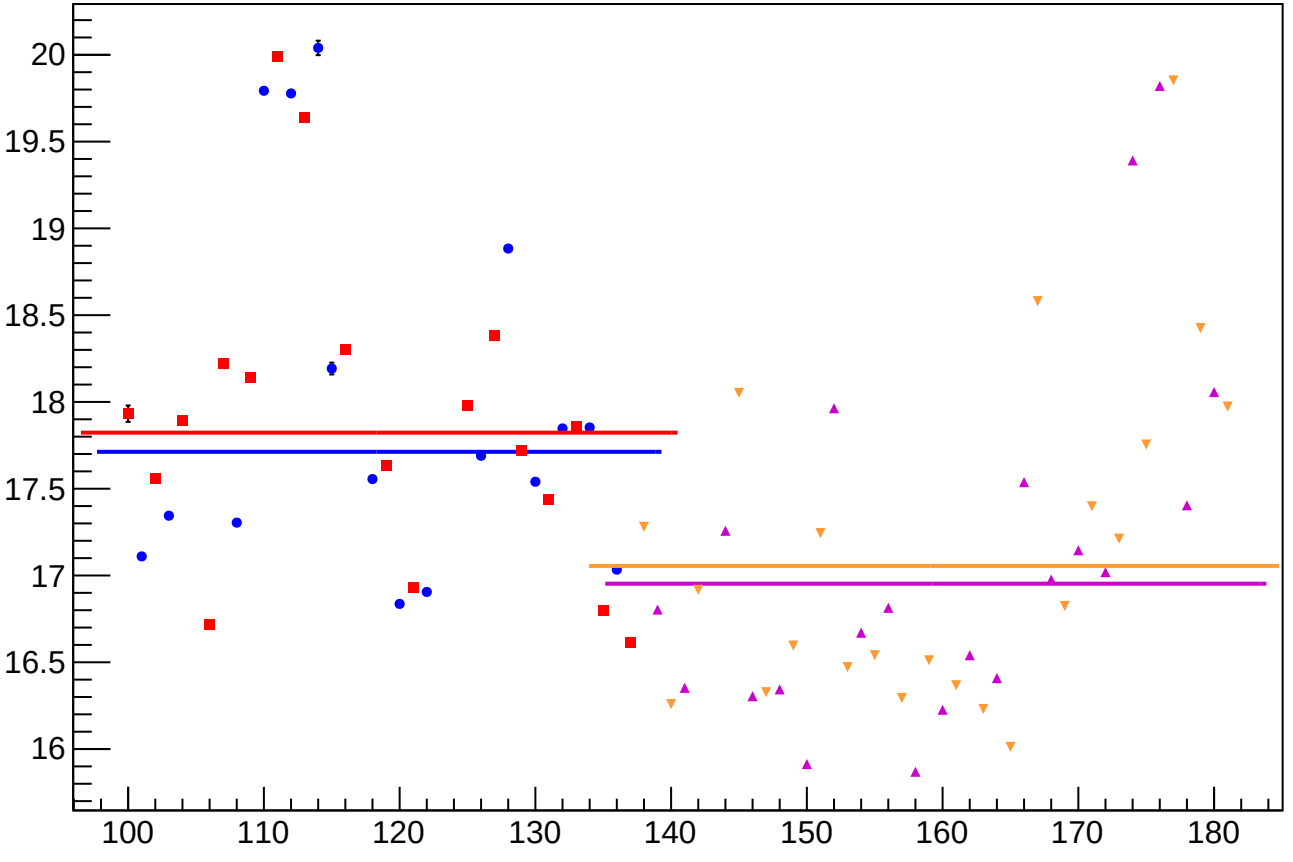
Right: 0.049+/-4.657 $\chi^2$/NDF: 23.5/33

In: 3.064+/-3.477 $\chi^2$/NDF:38.0/36

Out: 5.742+/-3.471 $\chi^2$/NDF:26.3/39

All: 4.405+/-2.457 $\chi^2$/NDF: 64.6/76

# asym_bcm_dg_ds_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 17.713+/-0.005 $\chi^2$/NDF: 35983.5/15

Left Out: 17.055+/-0.003 $\chi^2$/NDF:95410.6/21

Right Out: 17.823+/-0.005 $\chi^2$/NDF: 32502.9/17

Left In: 16.953+/-0.003 $\chi^2$/NDF:99353.8/20

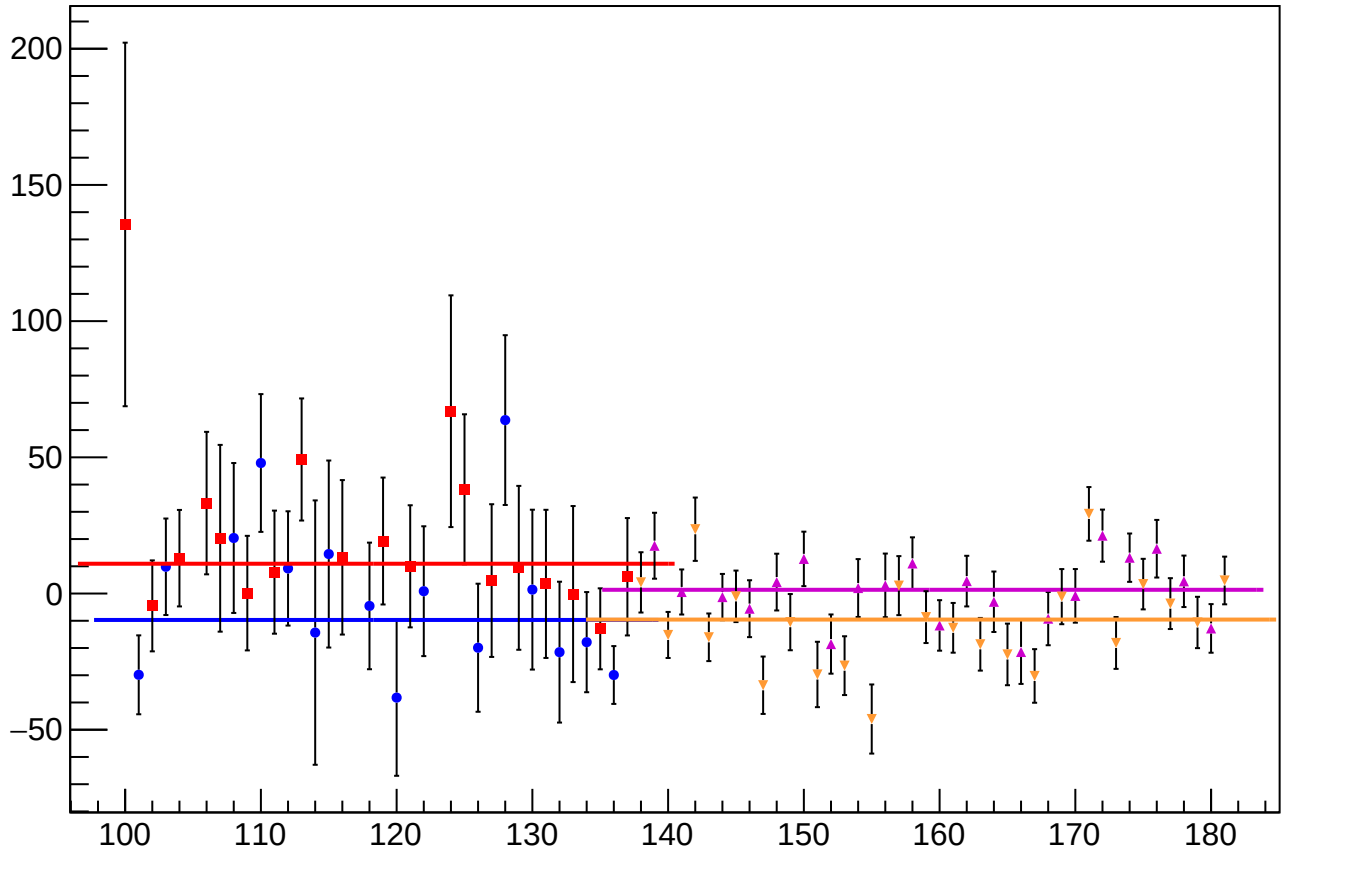
Left: 17.004+/-0.002 $\chi^2$/NDF: 195390.7/42

Right: 17.768+/-0.003 $\chi^2$/NDF: 68768.1/33

In: 17.164+/-0.002 $\chi^2$/NDF:154516.3/36

Out: 17.269+/-0.002 $\chi^2$/NDF:147579.3/39

All: 17.217+/-0.002 $\chi^2$/NDF: 303002.7/76




Right In: -9.702+/-5.231 $\chi^2$/NDF: 22.0/15

Left Out: -9.559+/-2.072 $\chi^2$/NDF:60.4/22

Right Out: 10.938+/-5.436 $\chi^2$/NDF: 14.1/18

Left In: 1.371+/-2.157 $\chi^2$/NDF:26.1/20

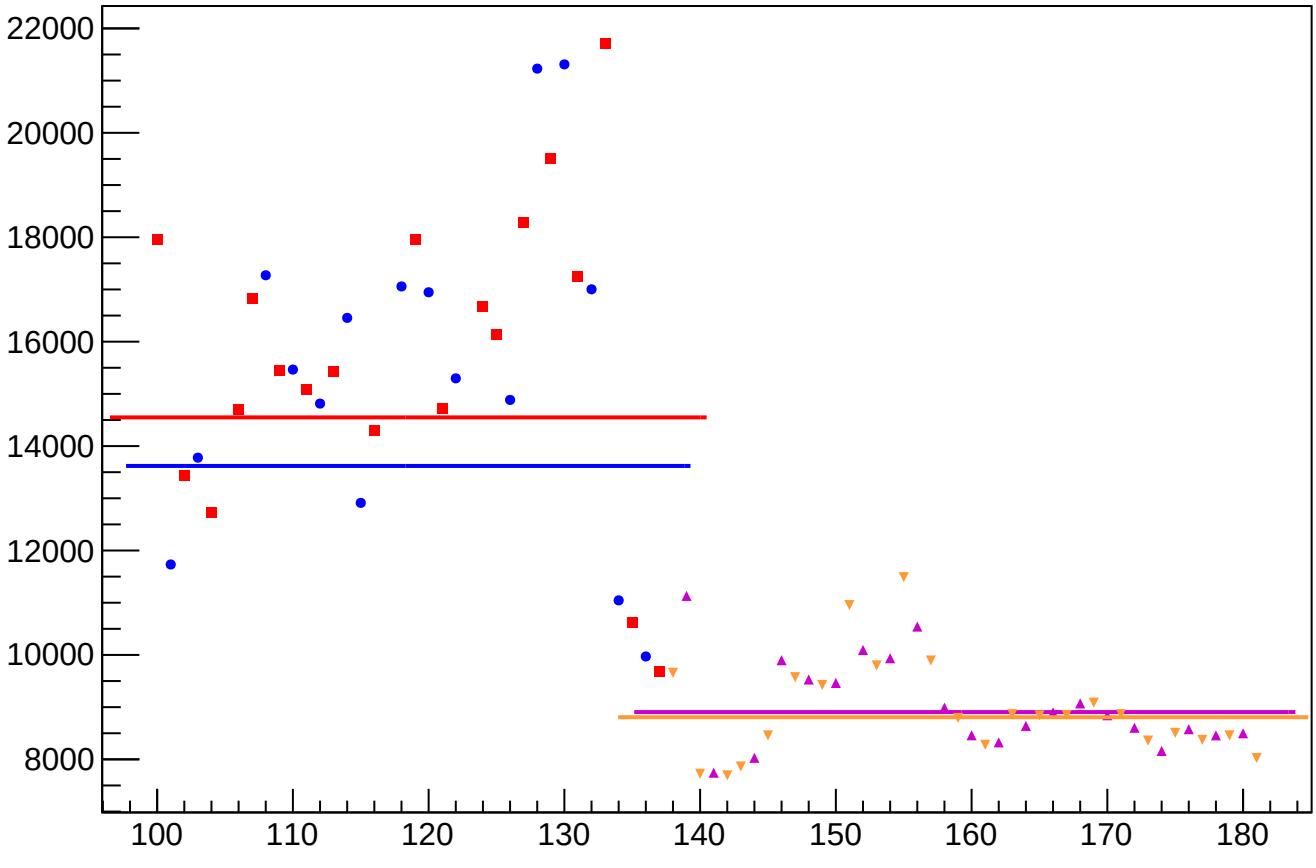
Left: -4.313+/-1.494 $\chi^2$/NDF: 99.9/43

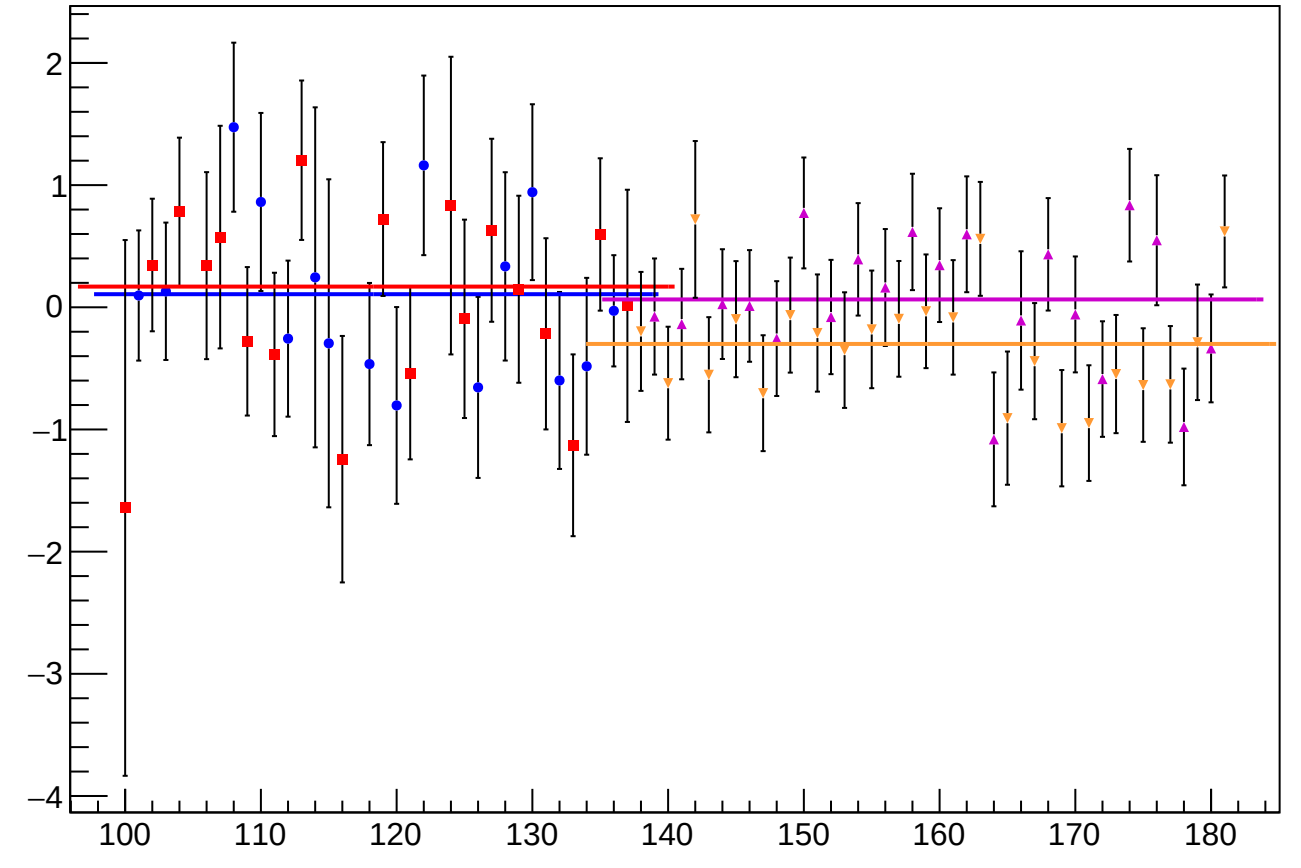
Right: 0.222+/-3.769 $\chi^2$/NDF: 43.6/34

In: -0.238+/-1.994 $\chi^2$/NDF:51.9/36

Out: -6.959+/-1.936 $\chi^2$/NDF:86.9/41

All: -3.697+/-1.389 $\chi^2$/NDF: 144.7/78


diff_bpm_4aX_4acX_avg_rms vs Slug, Sign Corrected
22000
20000
18000
16000
14000
12000
10000
8000
100
110
120
130
140
150
160
170
180
Right In: 13619.845+/-3.699 χ²/NDF: 746985.9/15
Left Out: 8807.071+/-1.465 χ²/NDF:335061.1/22
Right Out: 14549.658+/-3.844 χ²/NDF: 555902.2/18
Left In: 8905.472+/-1.525 χ²/NDF:282904.7/20
Left: 8854.302+/-1.057 χ²/NDF: 620130.7/43
Right: 14066.907+/-2.665 χ²/NDF: 1333265.9/34
In: 9590.388+/-1.410 χ²/NDF:2418132.5/36
Out: 9535.568+/-1.369 χ²/NDF:2839638.4/41
All: 9562.172+/-0.982 χ²/NDF: 5258549.0/78




Right In: 0.107+/-0.172 $\chi^2$/NDF: 13.7/15

Left Out: -0.300+/-0.100 $\chi^2$/NDF:19.3/22

Right Out: 0.169+/-0.169 $\chi^2$/NDF: 14.1/18

Left In: 0.064+/-0.103 $\chi^2$/NDF:23.1/20

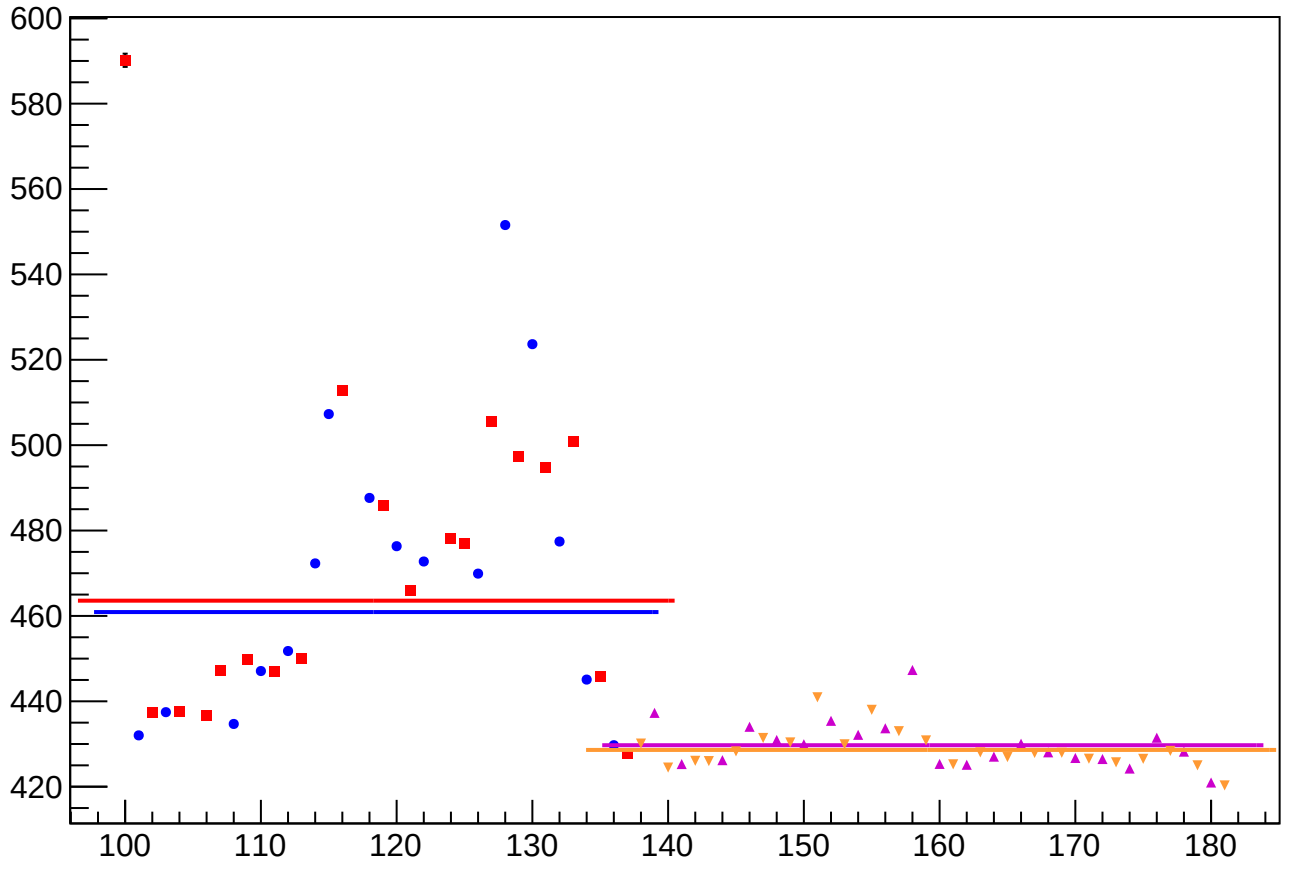
Left: -0.124+/-0.072 $\chi^2$/NDF: 48.9/43

Right: 0.139+/-0.121 $\chi^2$/NDF: 27.8/34

In: 0.076+/-0.089 $\chi^2$/NDF:36.8/36

Out: -0.179+/-0.086 $\chi^2$/NDF:39.1/41

All: -0.055+/-0.062 $\chi^2$/NDF: 80.2/78




Right In: 460.906+/-0.121 $\chi^2$/NDF: 74930.1/15

Left Out: 428.611+/-0.071 $\chi^2$/NDF:3746.0/22

Right Out: 463.573+/-0.120 $\chi^2$/NDF: 52175.6/18

Left In: 429.715+/-0.073 $\chi^2$/NDF:5960.9/20

Left: 429.145+/-0.051 $\chi^2$/NDF: 9824.7/43

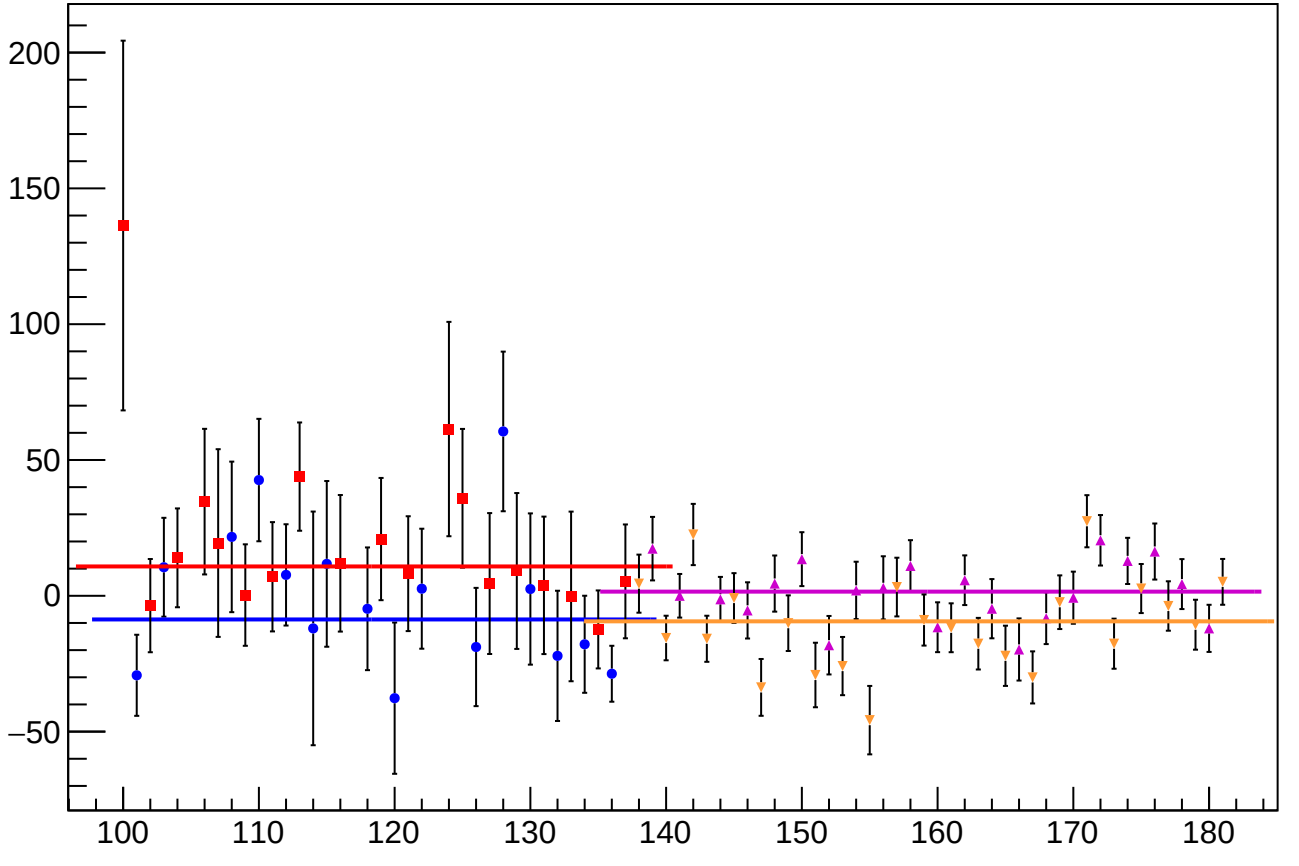
Right: 462.257+/-0.085 $\chi^2$/NDF: 127350.1/34

In: 438.023+/-0.063 $\chi^2$/NDF:129307.2/36

Out: 437.658+/-0.061 $\chi^2$/NDF:119043.0/41

All: 437.836+/-0.044 $\chi^2$/NDF: 248367.7/78

# diff_bpm_4aX_4eX_avg_mean vs Slug, Sign Corrected




Right In: -8.707+/-5.036 $\chi^2$/NDF: 22.3/15

Left Out: -9.402+/-2.027 $\chi^2$/NDF:60.0/22

Right Out: 10.807+/-5.192 $\chi^2$/NDF: 13.9/18

Left In: 1.534+/-2.112 $\chi^2$/NDF:26.0/20

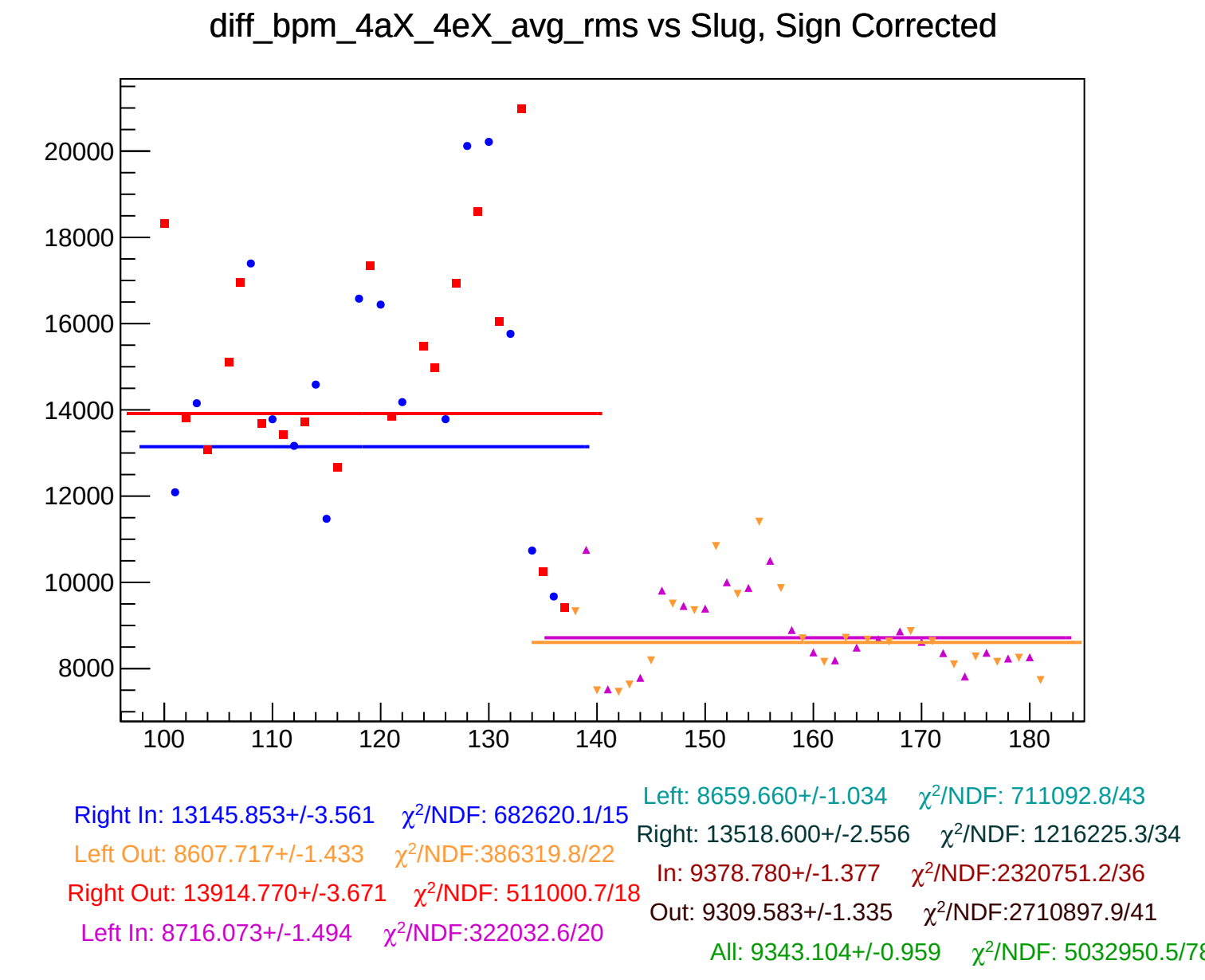
Left: -4.159+/-1.462 $\chi^2$/NDF: 99.9/43

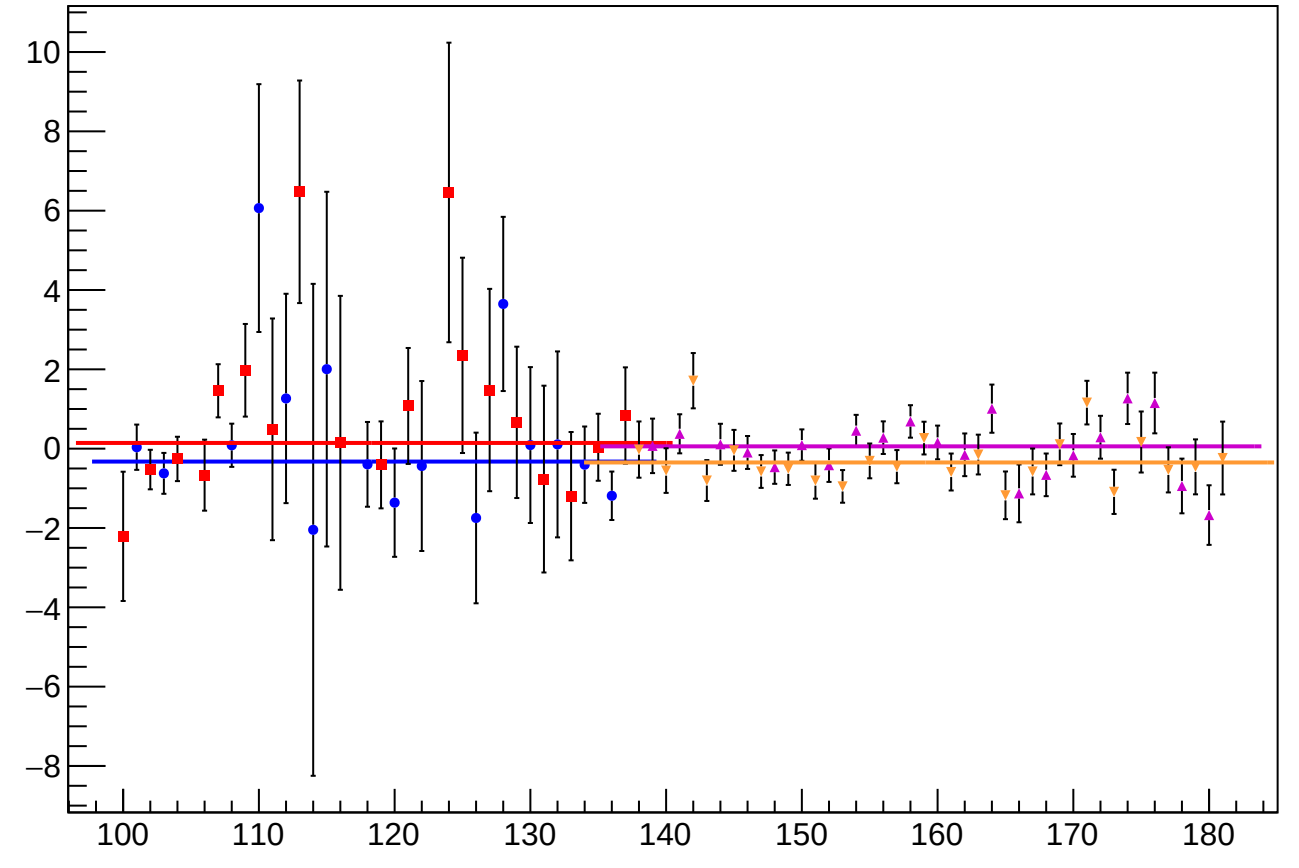
Right: 0.753+/-3.615 $\chi^2$/NDF: 43.4/34

In: 0.002+/-1.948 $\chi^2$/NDF:51.7/36

Out: -6.729+/-1.888 $\chi^2$/NDF:87.0/41

All: -3.468+/-1.356 $\chi^2$/NDF: 144.9/78


diff_bpm_4aX_4eX_avg_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
100
110
120
130
140
150
160
170
180
Right In: 13145.853+/-3.561 χ²/NDF: 682620.1/15
Left Out: 8607.717+/-1.433 χ²/NDF:386319.8/22
Right Out: 13914.770+/-3.671 χ²/NDF: 511000.7/18
Left In: 8716.073+/-1.494 χ²/NDF:322032.6/20
Left: 8659.660+/-1.034 χ²/NDF: 711092.8/43
Right: 13518.600+/-2.556 χ²/NDF: 1216225.3/34
In: 9378.780+/-1.377 χ²/NDF:2320751.2/36
Out: 9309.583+/-1.335 χ²/NDF:2710897.9/41
All: 9343.104+/-0.959 χ²/NDF: 5032950.5/78




Right In: -0.326+/-0.244 $\chi^2$/NDF: 12.6/15

Left Out: -0.348+/-0.107 $\chi^2$/NDF:29.2/22

Right Out: 0.144+/-0.244 $\chi^2$/NDF: 22.5/18

Left In: 0.058+/-0.109 $\chi^2$/NDF:27.4/20

Left: -0.149+/-0.077 $\chi^2$/NDF: 63.7/43

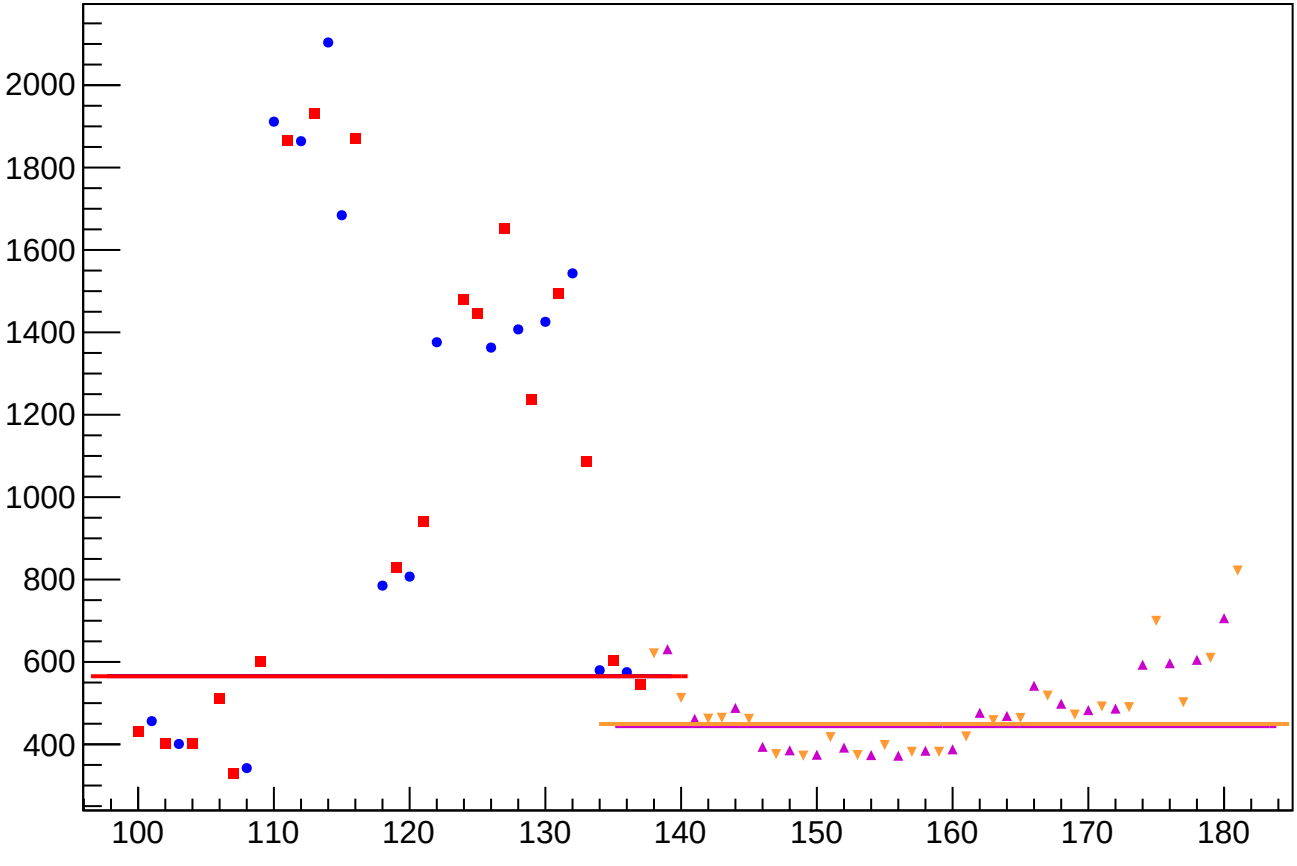
Right: -0.091+/-0.173 $\chi^2$/NDF: 36.9/34

In: -0.006+/-0.100 $\chi^2$/NDF:42.0/36

Out: -0.268+/-0.098 $\chi^2$/NDF:55.1/41

All: -0.139+/-0.070 $\chi^2$/NDF: 100.6/78

# diff_bpm_4aX_4eX_dd_rms vs Slug, Sign Corrected




Right In: 565.531+/-0.173 $\chi^2$/NDF: 3450533.8/15

Left Out: 449.290+/-0.076 $\chi^2$/NDF:1220212.2/22

Right Out: 565.223+/-0.173 $\chi^2$/NDF: 3571620.7/18

Left In: 444.147+/-0.077 $\chi^2$/NDF:1154077.2/20

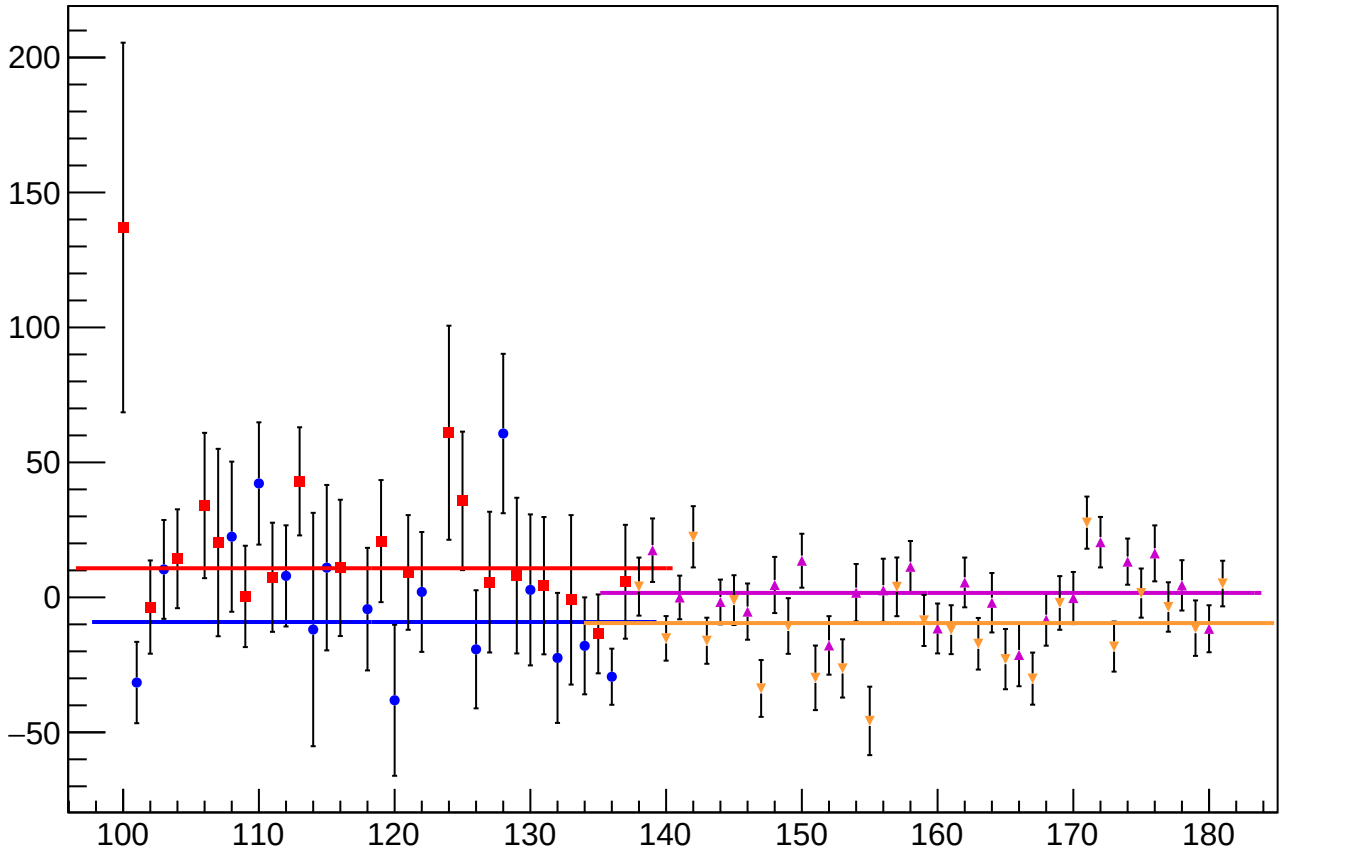
Left: 446.766+/-0.054 $\chi^2$/NDF: 2376539.0/43

Right: 565.377+/-0.122 $\chi^2$/NDF: 7022156.1/34

In: 464.459+/-0.071 $\chi^2$/NDF:5016322.7/36

Out: 468.067+/-0.070 $\chi^2$/NDF:5169071.8/41

All: 466.291+/-0.050 $\chi^2$/NDF: 10186719.8/78




Right In: -9.130+/-5.069 $\chi^2$/NDF: 22.7/15

Left Out: -9.526+/-2.049 $\chi^2$/NDF:59.7/22

Right Out: 10.788+/-5.227 $\chi^2$/NDF: 13.7/18

Left In: 1.648+/-2.127 $\chi^2$/NDF:25.9/20

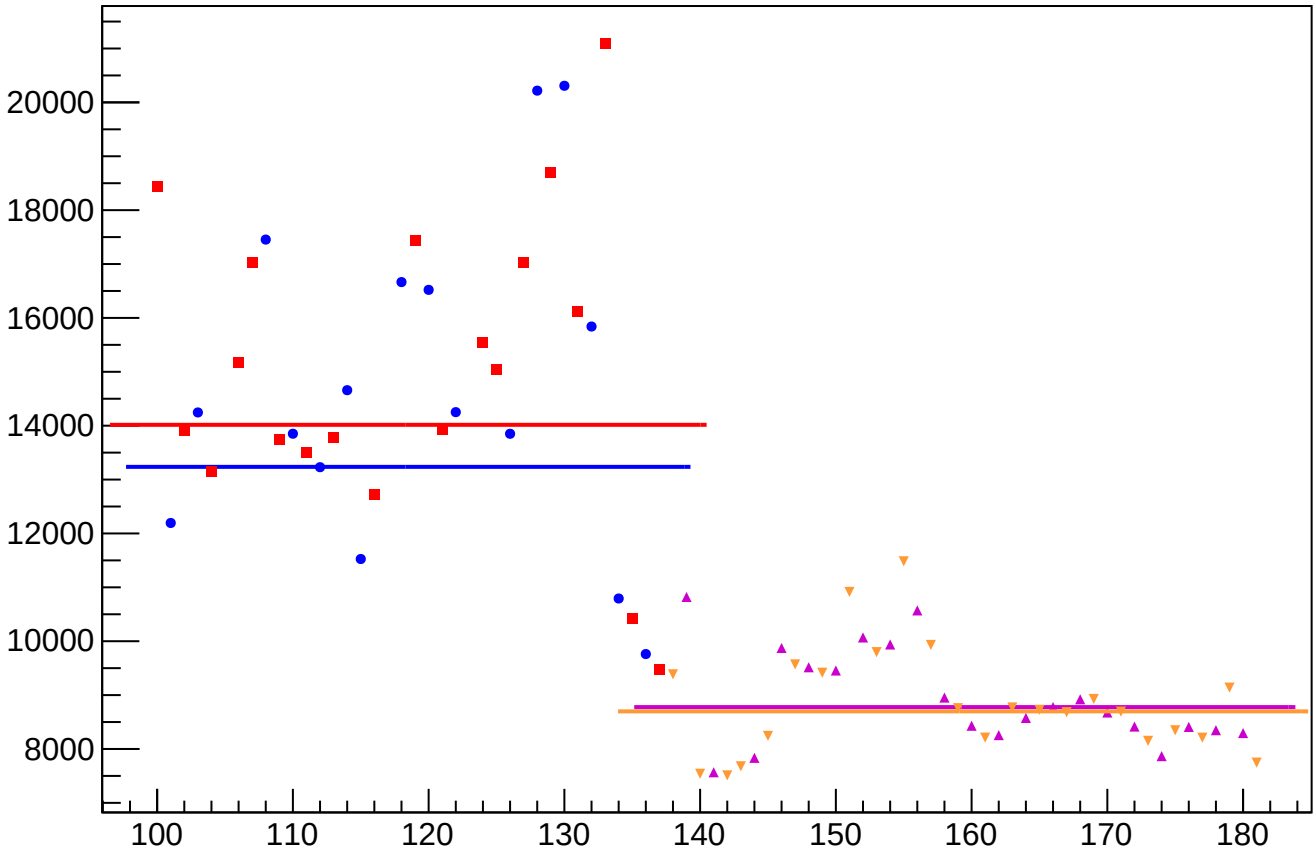
Left: -4.148+/-1.476 $\chi^2$/NDF: 99.8/43

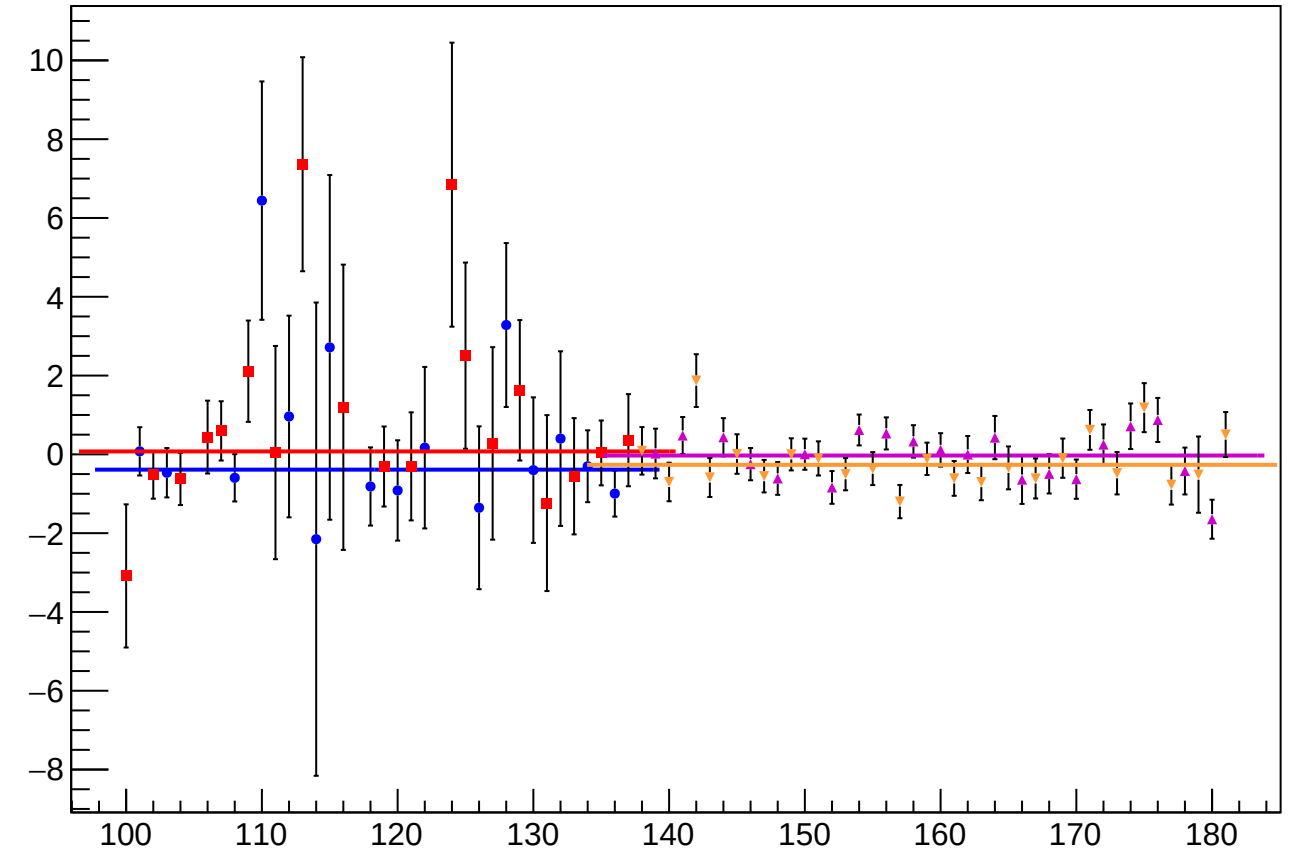
Right: 0.523+/-3.639 $\chi^2$/NDF: 43.9/34

In: 0.035+/-1.961 $\chi^2$/NDF:52.5/36

Out: -6.820+/-1.908 $\chi^2$/NDF:86.4/41

All: -3.488+/-1.368 $\chi^2$/NDF: 145.2/78


diff_bpm_4aX_4ecX_avg_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
100
110
120
130
140
150
160
170
180
Right In: 13235.828+/-3.585 χ²/NDF: 673887.0/15
Left Out: 8698.010+/-1.449 χ²/NDF:389548.8/22
Right Out: 14016.035+/-3.696 χ²/NDF: 498592.9/18
Left In: 8777.547+/-1.504 χ²/NDF:321528.2/20
Left: 8736.291+/-1.043 χ²/NDF: 712527.4/43
Right: 13613.950+/-2.573 χ²/NDF: 1195440.4/34
In: 9445.007+/-1.387 χ²/NDF:2310768.5/36
Out: 9406.235+/-1.349 χ²/NDF:2682412.6/41
All: 9425.082+/-0.967 χ²/NDF: 4993582.7/78




Right In: -0.388+/-0.256 $\chi^2$/NDF: 11.7/15

Left Out: -0.266+/-0.102 $\chi^2$/NDF:32.2/22

Right Out: 0.075+/-0.265 $\chi^2$/NDF: 21.7/18

Left In: -0.029+/-0.103 $\chi^2$/NDF:33.3/20

Left: -0.149+/-0.072 $\chi^2$/NDF: 68.2/43

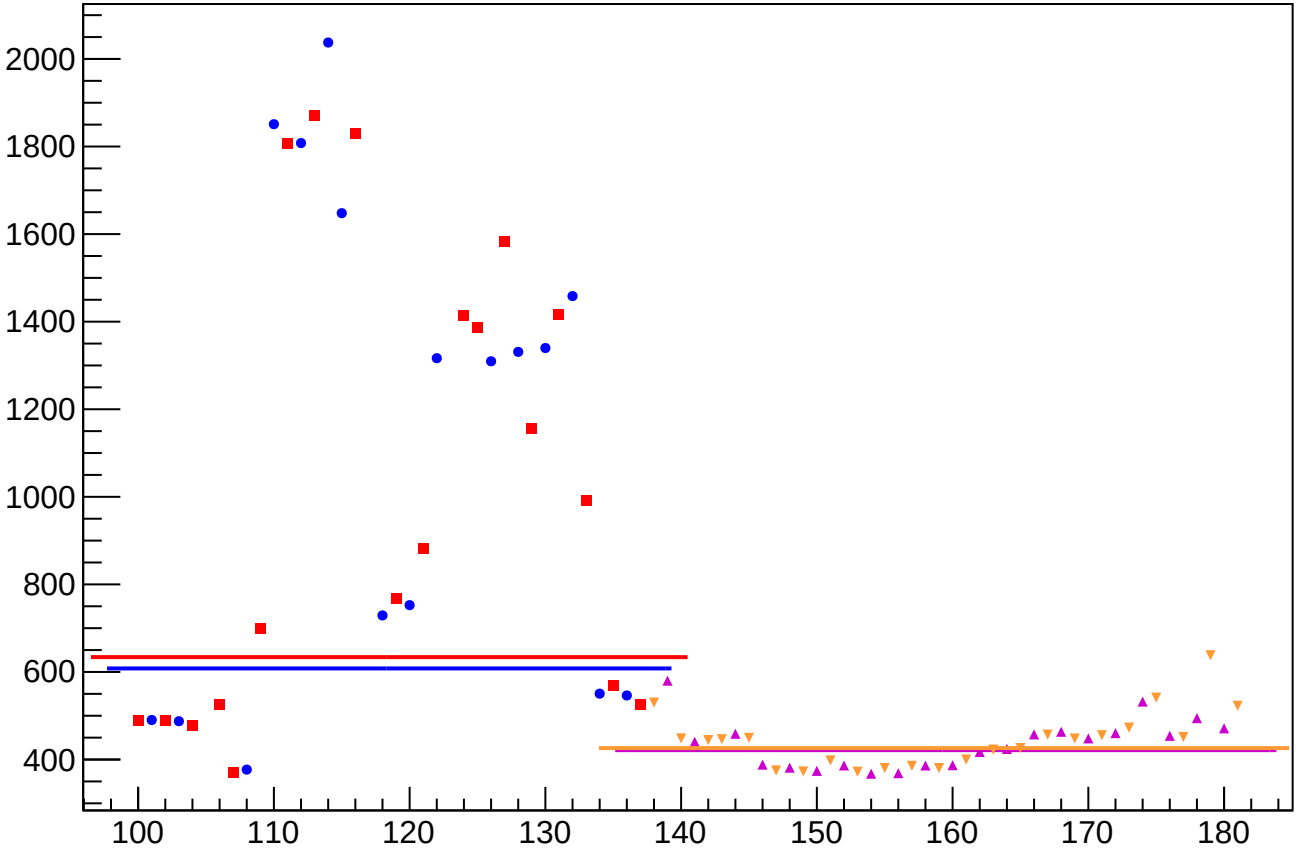
Right: -0.164+/-0.184 $\chi^2$/NDF: 34.9/34

In: -0.079+/-0.095 $\chi^2$/NDF:46.6/36

Out: -0.222+/-0.095 $\chi^2$/NDF:55.3/41

All: -0.151+/-0.067 $\chi^2$/NDF: 103.1/78

# diff_bpm_4aX_4ecX_dd_rms vs Slug, Sign Corrected




Right In: 608.063+/-0.181 $\chi^2$/NDF: 2852722.1/15

Left Out: 426.114+/-0.072 $\chi^2$/NDF:514844.0/22

Right Out: 633.883+/-0.187 $\chi^2$/NDF: 2788449.1/18

Left In: 421.492+/-0.073 $\chi^2$/NDF:484310.8/20

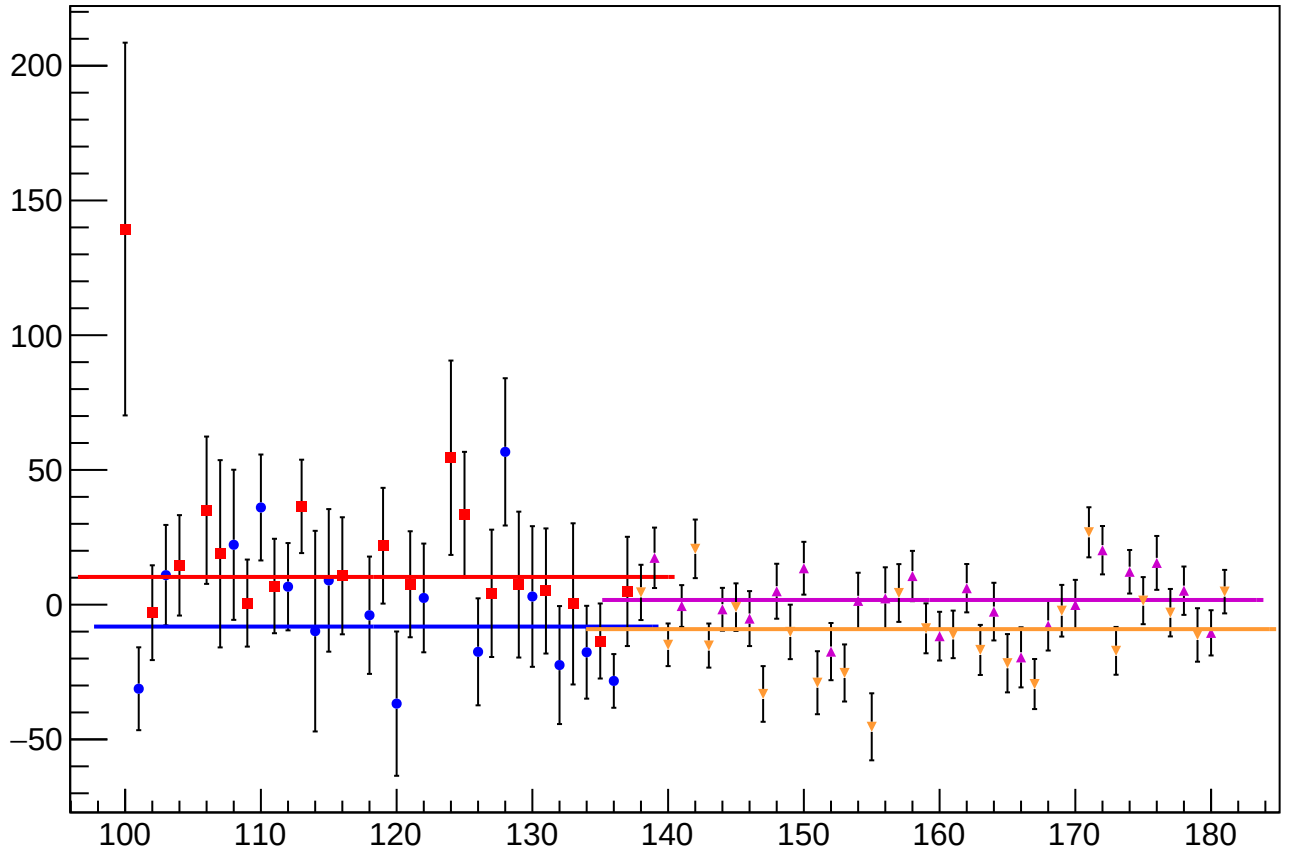
Left: 423.828+/-0.051 $\chi^2$/NDF: 1001200.0/43

Right: 620.535+/-0.130 $\chi^2$/NDF: 5651022.3/34

In: 447.429+/-0.067 $\chi^2$/NDF:4253767.0/36

Out: 452.843+/-0.067 $\chi^2$/NDF:4378439.0/41

All: 450.149+/-0.048 $\chi^2$/NDF: 8635446.3/78




Right In: -8.132+/-4.779 $\chi^2$/NDF: 23.1/15

Left Out: -9.078+/-1.980 $\chi^2$/NDF:60.1/22

Right Out: 10.288+/-4.873 $\chi^2$/NDF: 13.7/18

Left In: 1.741+/-2.058 $\chi^2$/NDF:25.8/20

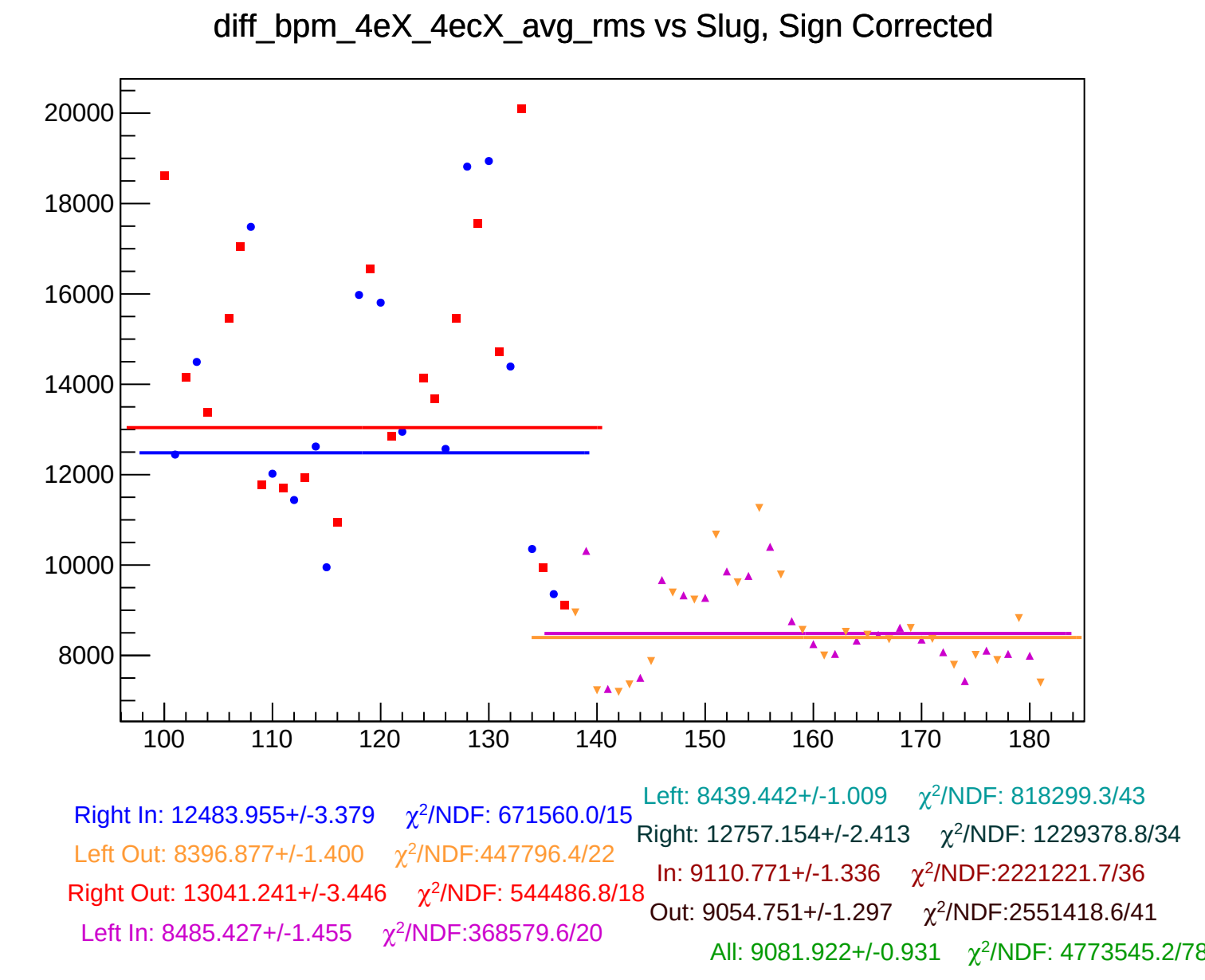
Left: -3.878+/-1.427 $\chi^2$/NDF: 100.3/43

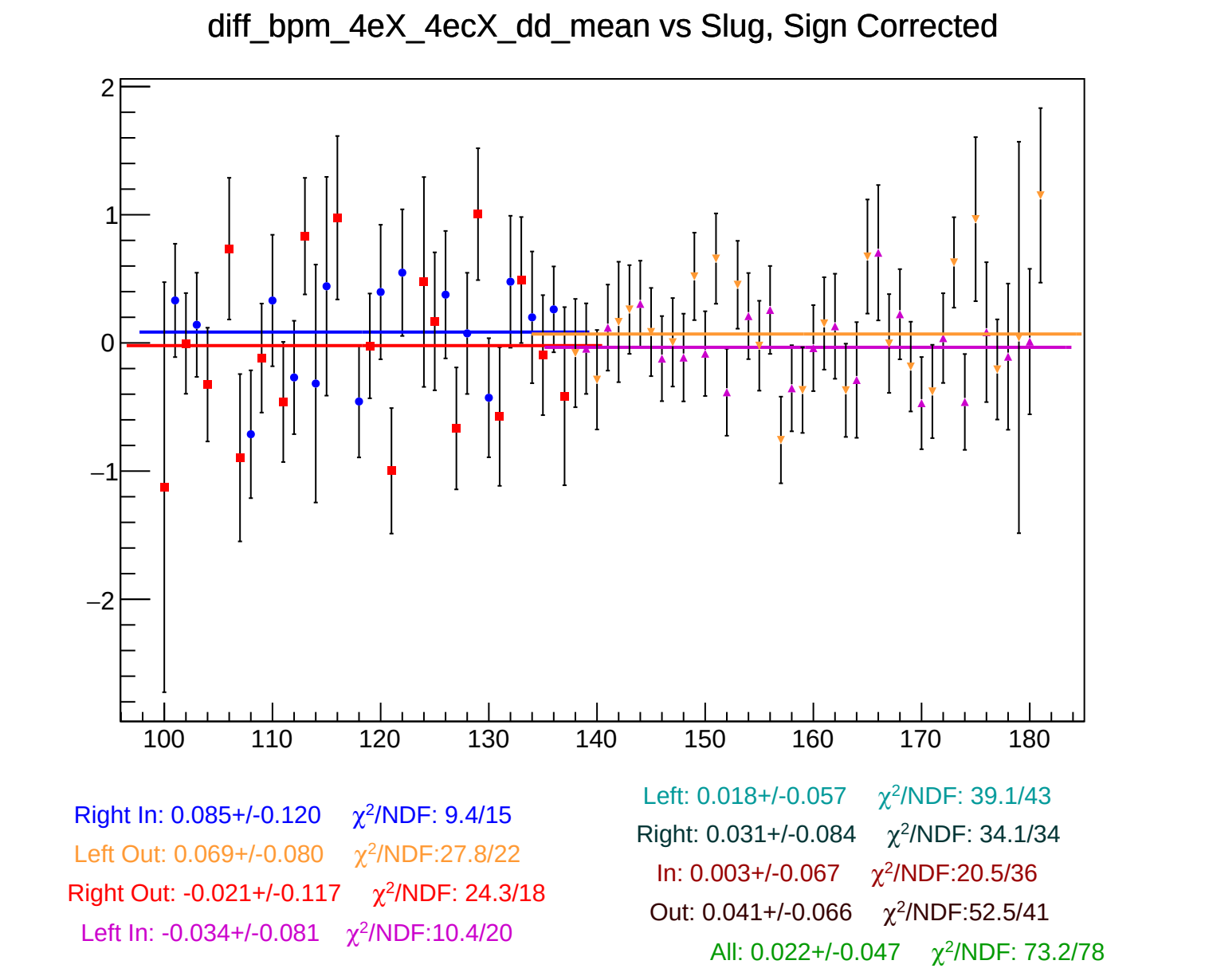
Right: 0.898+/-3.412 $\chi^2$/NDF: 44.1/34

In: 0.197+/-1.890 $\chi^2$/NDF:52.5/36

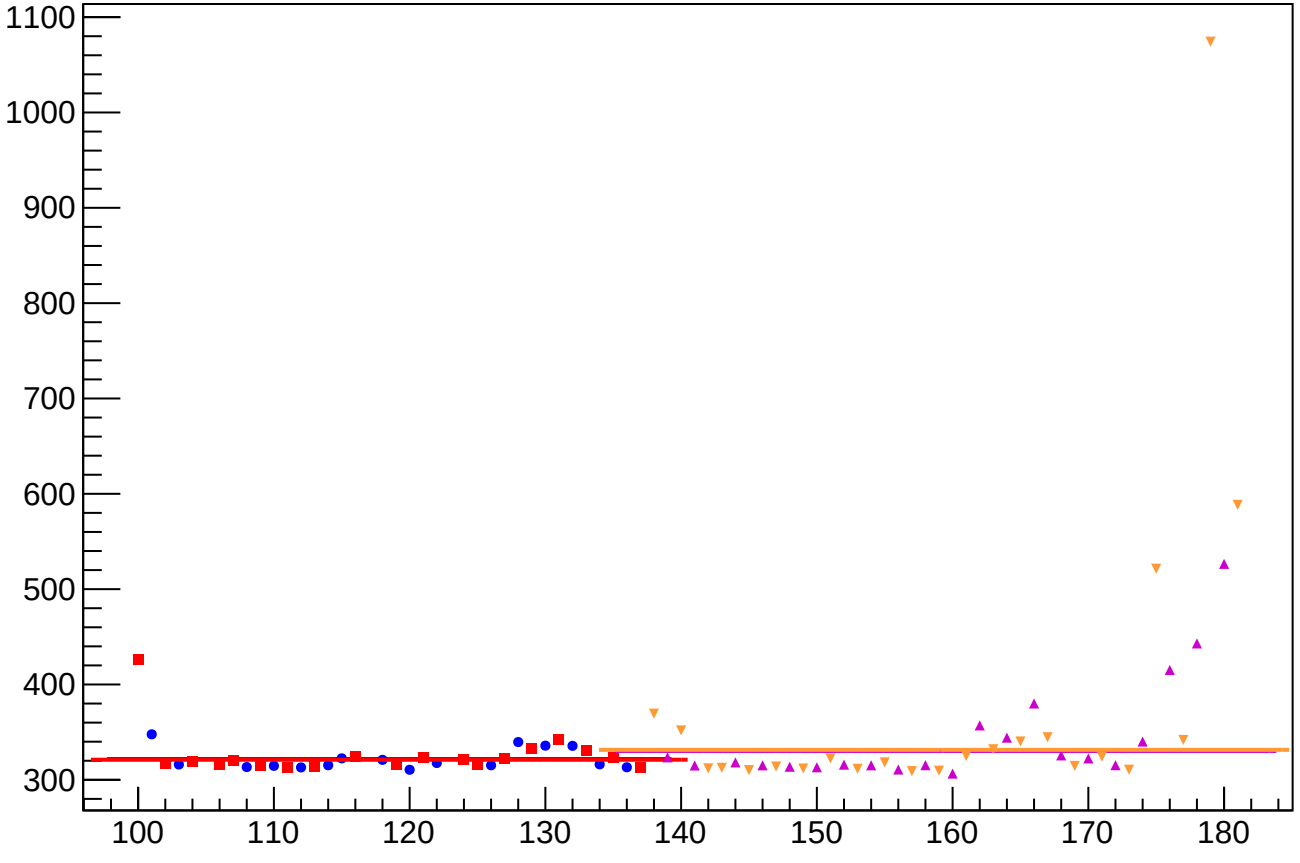
Out: -6.335+/-1.834 $\chi^2$/NDF:87.4/41

All: -3.167+/-1.316 $\chi^2$/NDF: 146.0/78


diff_bpm_4eX_4ecX_avg_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
100
110
120
130
140
150
160
170
180
Right In: 12483.955+/-3.379 χ²/NDF: 671560.0/15
Left Out: 8396.877+/-1.400 χ²/NDF:447796.4/22
Right Out: 13041.241+/-3.446 χ²/NDF: 544486.8/18
Left In: 8485.427+/-1.455 χ²/NDF:368579.6/20
Left: 8439.442+/-1.009 χ²/NDF: 818299.3/43
Right: 12757.154+/-2.413 χ²/NDF: 1229378.8/34
In: 9110.771+/-1.336 χ²/NDF:2221221.7/36
Out: 9054.751+/-1.297 χ²/NDF:2551418.6/41
All: 9081.922+/-0.931 χ²/NDF: 4773545.2/78


diff_bpm_4eX_4ecX_dd_mean vs Slug, Sign Corrected
2
1
0
−1
−2
100
110
120
130
140
150
160
170
180
Right In: 0.085+/-0.120 χ²/NDF: 9.4/15
Left Out: 0.069+/-0.080 χ²/NDF:27.8/22
Right Out: -0.021+/-0.117 χ²/NDF: 24.3/18
Left In: -0.034+/-0.081 χ²/NDF:10.4/20
Left: 0.018+/-0.057 χ²/NDF: 39.1/43
Right: 0.031+/-0.084 χ²/NDF: 34.1/34
In: 0.003+/-0.067 χ²/NDF:20.5/36
Out: 0.041+/-0.066 χ²/NDF:52.5/41
All: 0.022+/-0.047 χ²/NDF: 73.2/78

# diff_bpm_4eX_4ecX_dd_rms vs Slug, Sign Corrected




Right In: 321.727+/-0.085 $\chi^2$/NDF: 18214.6/15

Left Out: 331.449+/-0.057 $\chi^2$/NDF:1030380.1/22

Right Out: 321.093+/-0.083 $\chi^2$/NDF: 16579.3/18

Left In: 330.302+/-0.057 $\chi^2$/NDF:449962.7/20

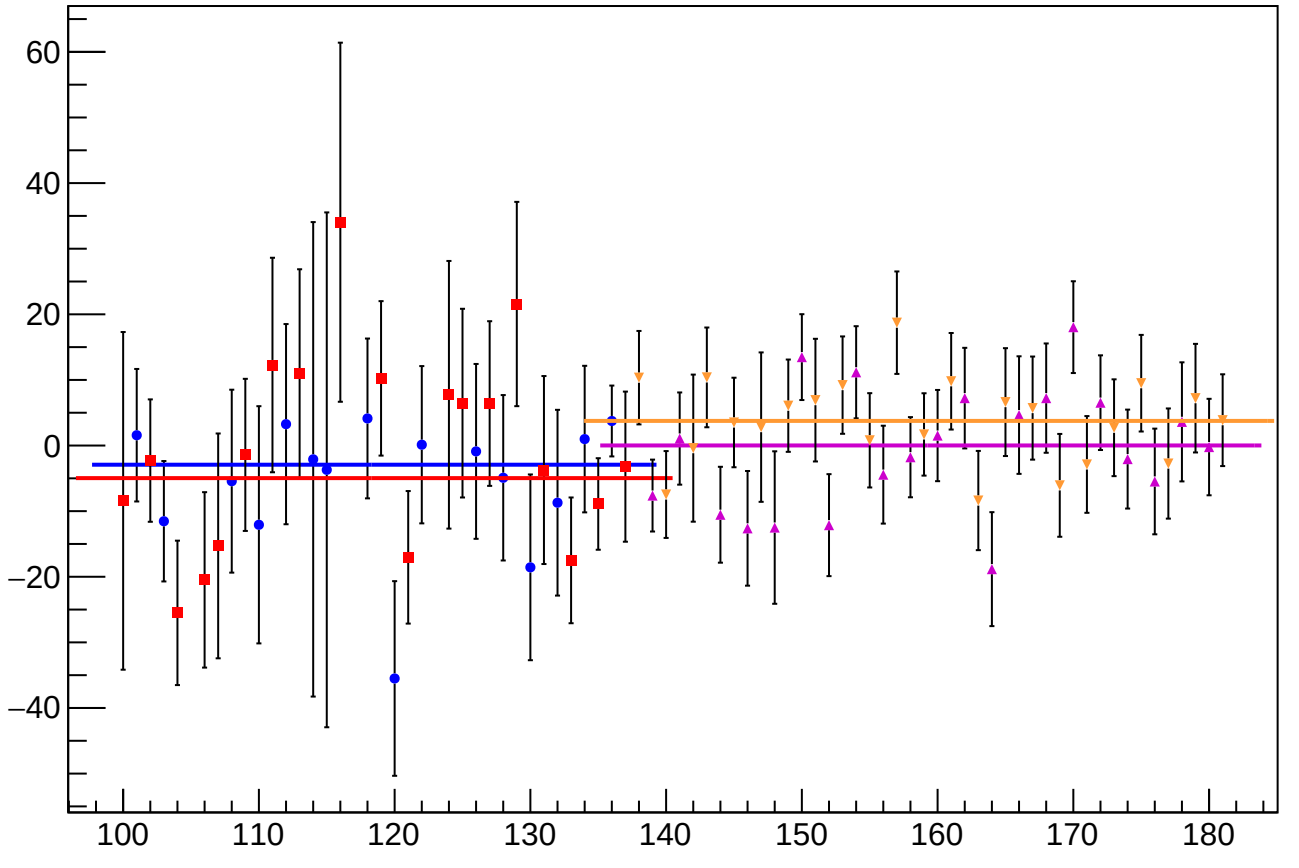
Left: 330.883+/-0.040 $\chi^2$/NDF: 1480544.6/43

Right: 321.403+/-0.059 $\chi^2$/NDF: 34822.5/34

In: 327.610+/-0.048 $\chi^2$/NDF:475165.4/36

Out: 328.155+/-0.047 $\chi^2$/NDF:1057555.4/41

All: 327.887+/-0.033 $\chi^2$/NDF: 1532787.2/78




Right In: -2.922+/-2.910 $\chi^2$/NDF: 9.8/15

Left Out: 3.755+/-1.590 $\chi^2$/NDF:16.6/22

Right Out: -4.965+/-2.824 $\chi^2$/NDF: 19.4/18

Left In: 0.013+/-1.625 $\chi^2$/NDF:31.8/20

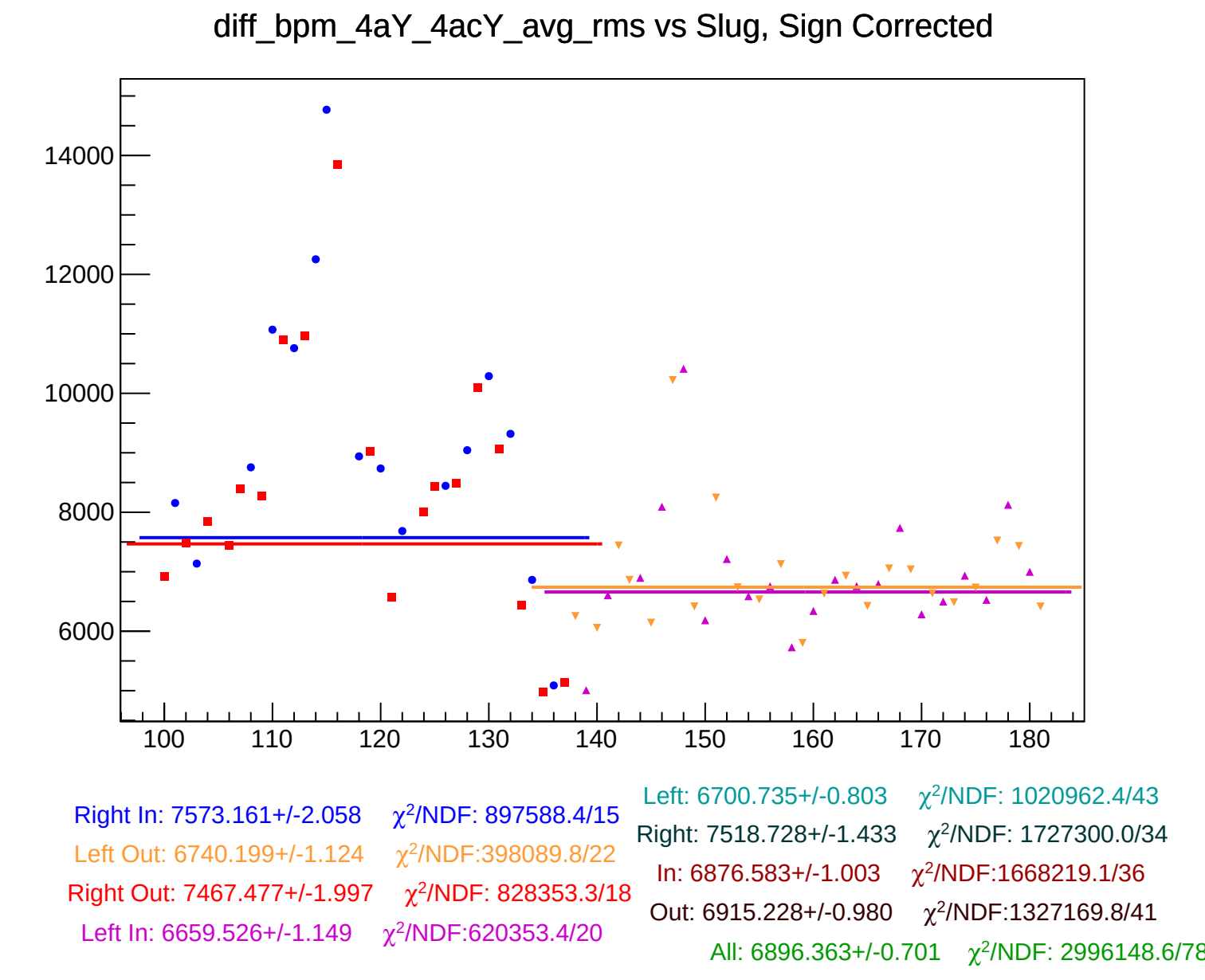
Left: 1.924+/-1.136 $\chi^2$/NDF: 51.0/43

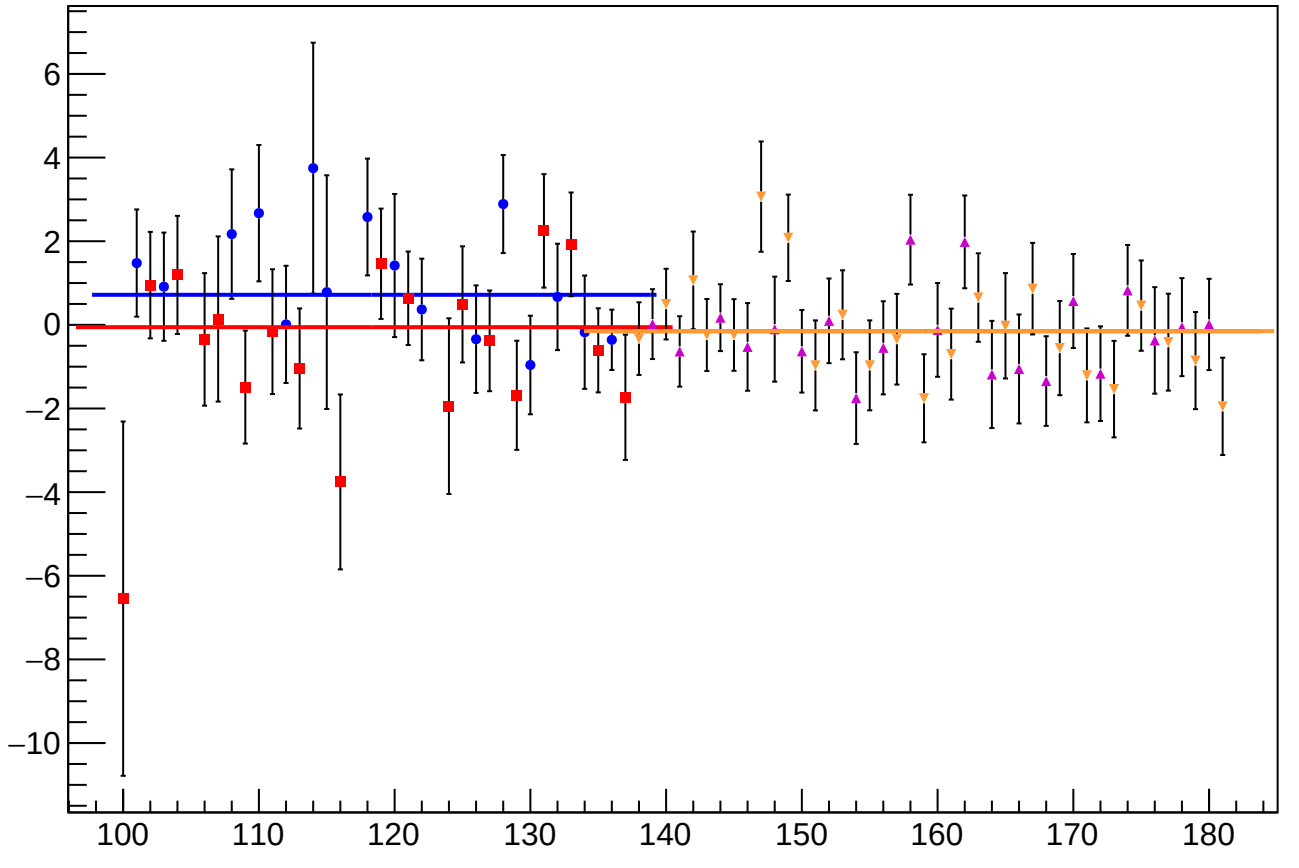
Right: -3.974+/-2.027 $\chi^2$/NDF: 29.5/34

In: -0.684+/-1.419 $\chi^2$/NDF:42.4/36

Out: 1.656+/-1.385 $\chi^2$/NDF:43.2/41

All: 0.514+/-0.991 $\chi^2$/NDF: 87.0/78


diff_bpm_4aY_4acY_avg_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
110
120
130
140
150
160
170
180
Right In: 7573.161+/-2.058 χ²/NDF: 897588.4/15
Left Out: 6740.199+/-1.124 χ²/NDF:398089.8/22
Right Out: 7467.477+/-1.997 χ²/NDF: 828353.3/18
Left In: 6659.526+/-1.149 χ²/NDF:620353.4/20
Left: 6700.735+/-0.803 χ²/NDF: 1020962.4/43
Right: 7518.728+/-1.433 χ²/NDF: 1727300.0/34
In: 6876.583+/-1.003 χ²/NDF:1668219.1/36
Out: 6915.228+/-0.980 χ²/NDF:1327169.8/41
All: 6896.363+/-0.701 χ²/NDF: 2996148.6/78




Right In: 0.719+/-0.326 $\chi^2$/NDF: 14.8/15

Left Out: -0.149+/-0.220 $\chi^2$/NDF:23.3/22

Right Out: -0.056+/-0.323 $\chi^2$/NDF: 19.8/18

Left In: -0.152+/-0.231 $\chi^2$/NDF:15.5/20

Left: -0.151+/-0.159 $\chi^2$/NDF: 38.8/43

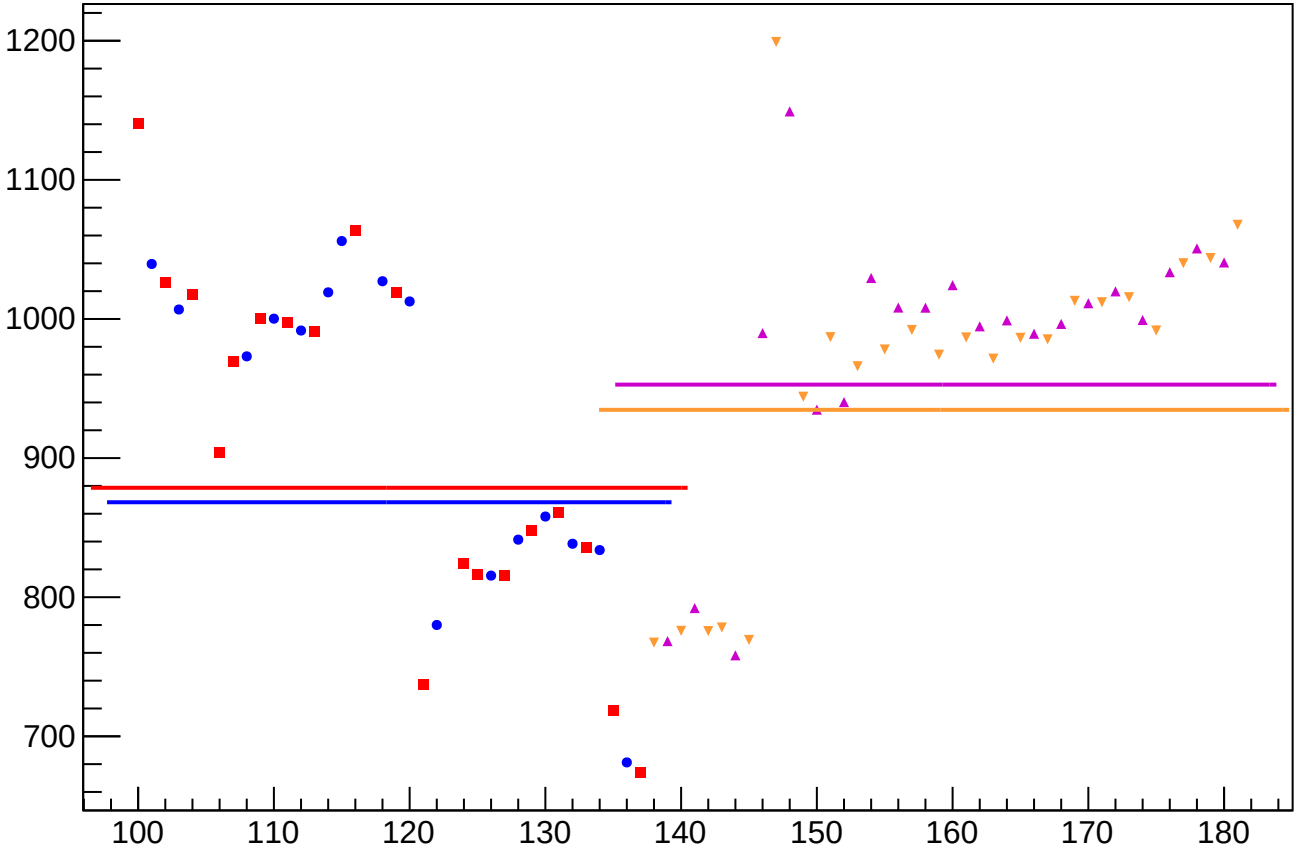
Right: 0.329+/-0.230 $\chi^2$/NDF: 37.4/34

In: 0.139+/-0.188 $\chi^2$/NDF:35.1/36

Out: -0.119+/-0.182 $\chi^2$/NDF:43.2/41

All: 0.005+/-0.131 $\chi^2$/NDF: 79.2/78

# diff_bpm_4aY_4acY_dd_rms vs Slug, Sign Corrected




Right In: 868.253+/-0.230 $\chi^2$/NDF: 302409.6/15

Left Out: 934.694+/-0.156 $\chi^2$/NDF:530994.3/22

Right Out: 878.658+/-0.229 $\chi^2$/NDF: 272530.7/18

Left In: 952.820+/-0.163 $\chi^2$/NDF:430851.9/20

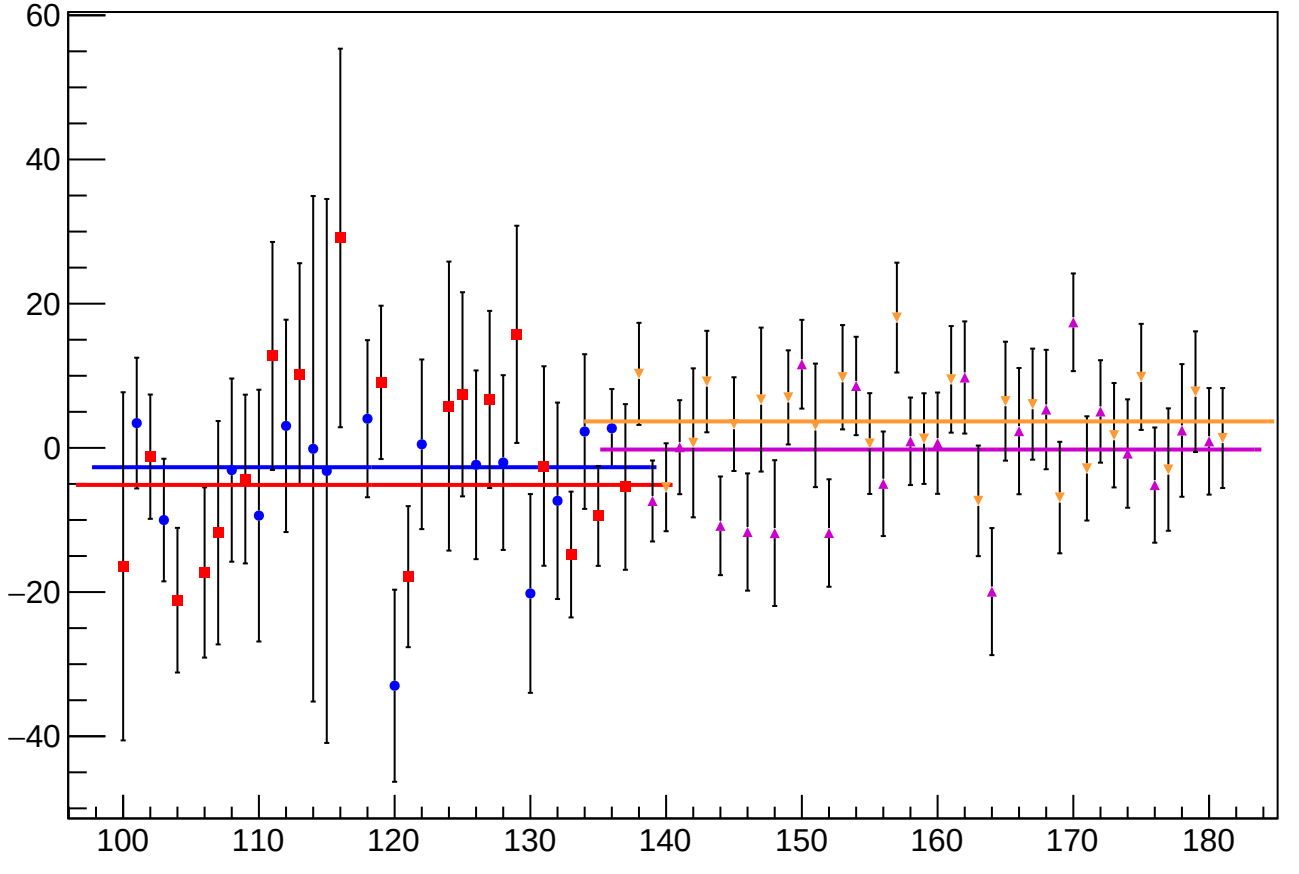
Left: 943.316+/-0.113 $\chi^2$/NDF: 968304.7/43

Right: 873.496+/-0.162 $\chi^2$/NDF: 575967.6/34

In: 924.549+/-0.133 $\chi^2$/NDF:822898.1/36

Out: 916.965+/-0.129 $\chi^2$/NDF:844583.3/41

All: 920.623+/-0.093 $\chi^2$/NDF: 1669158.8/78




Right In: -2.683+/-2.788 $\chi^2$/NDF: 10.1/15

Left Out: 3.669+/-1.546 $\chi^2$/NDF:16.1/22

Right Out: -5.136+/-2.692 $\chi^2$/NDF: 17.3/18

Left In: -0.230+/-1.589 $\chi^2$/NDF:30.6/20

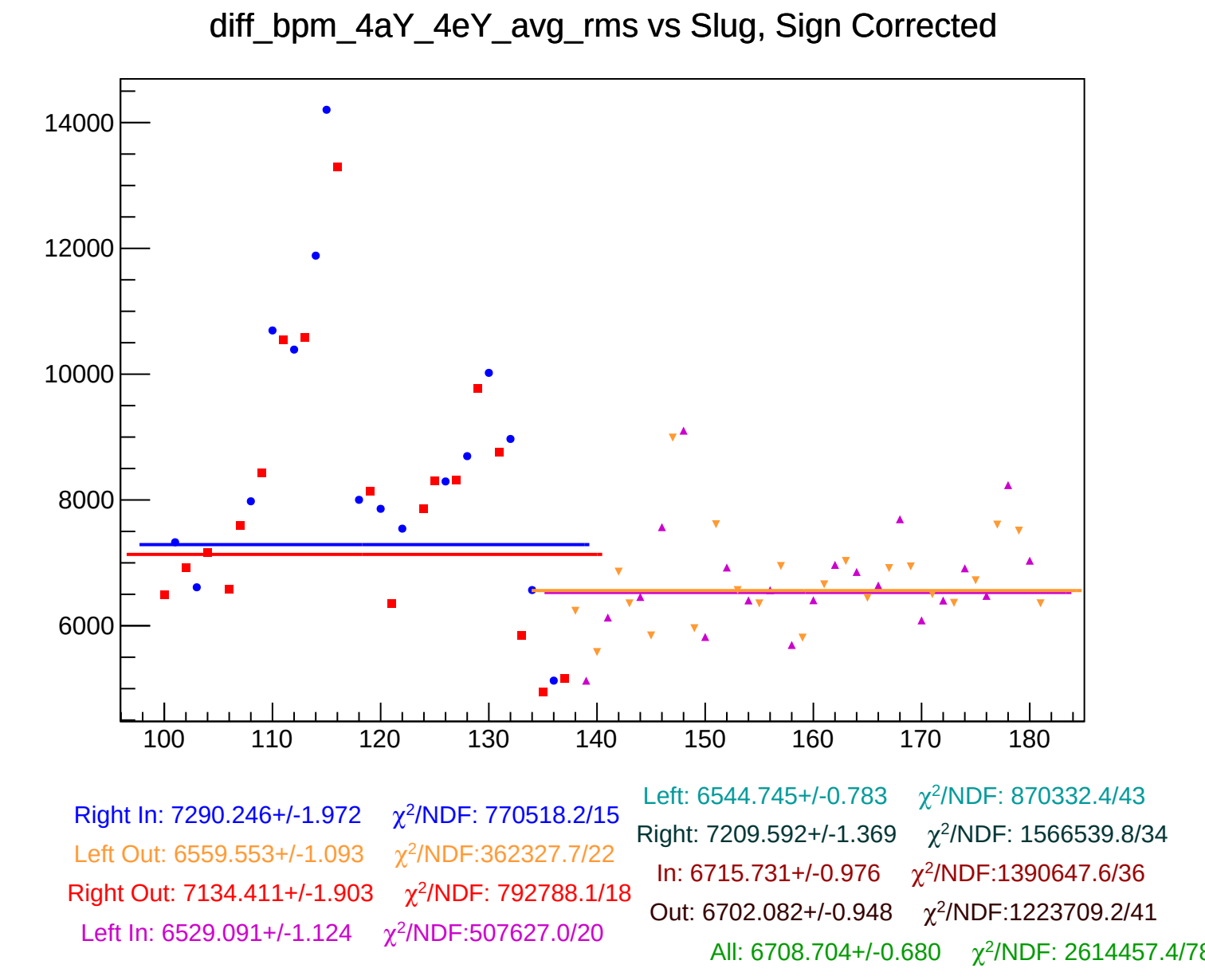
Left: 1.774+/-1.108 $\chi^2$/NDF: 49.8/43

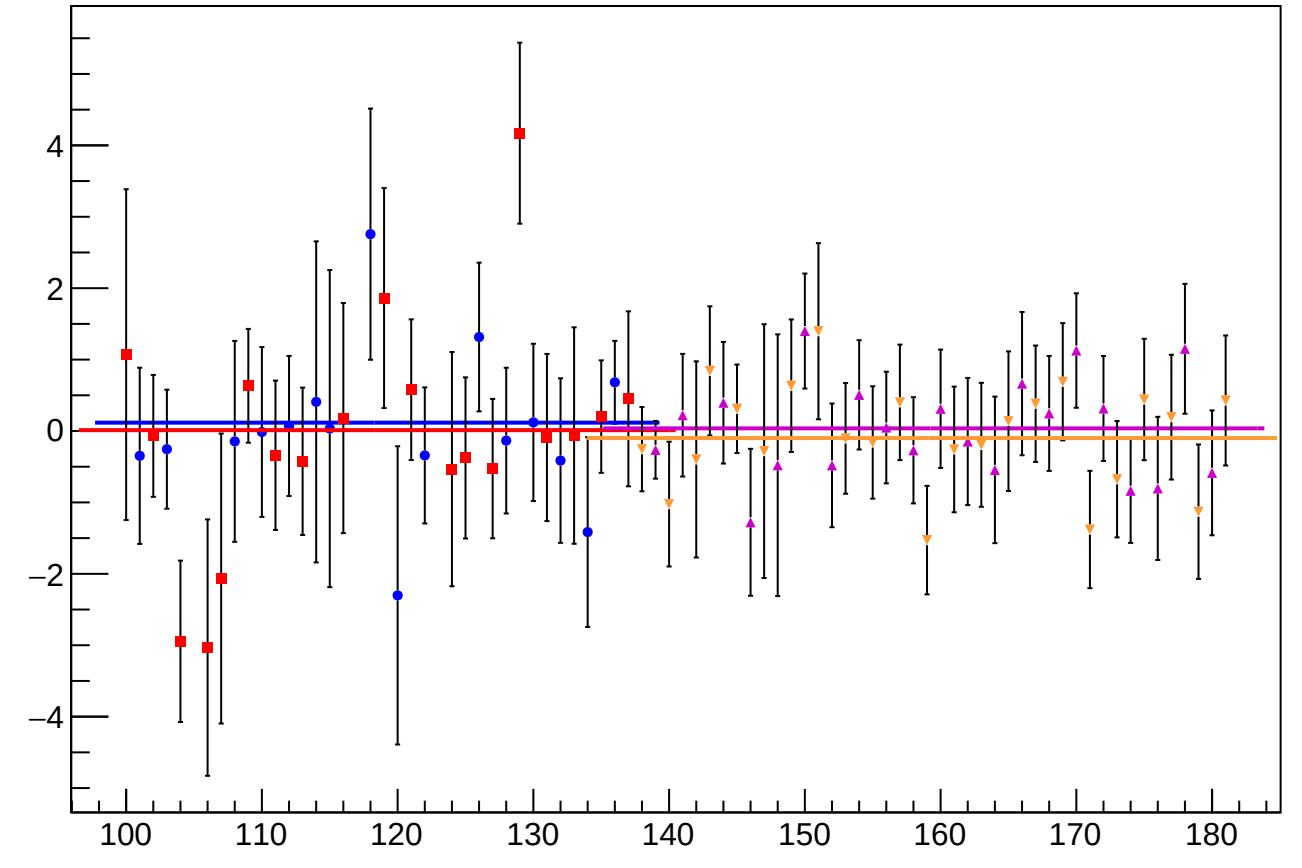
Right: -3.953+/-1.937 $\chi^2$/NDF: 27.7/34

In: -0.831+/-1.381 $\chi^2$/NDF:41.2/36

Out: 1.486+/-1.340 $\chi^2$/NDF:41.4/41

All: 0.362+/-0.962 $\chi^2$/NDF: 84.1/78


diff_bpm_4aY_4eY_avg_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
110
120
130
140
150
160
170
180
Right In: 7290.246+/-1.972 χ²/NDF: 770518.2/15
Left Out: 6559.553+/-1.093 χ²/NDF:362327.7/22
Right Out: 7134.411+/-1.903 χ²/NDF: 792788.1/18
Left In: 6529.091+/-1.124 χ²/NDF:507627.0/20
Left: 6544.745+/-0.783 χ²/NDF: 870332.4/43
Right: 7209.592+/-1.369 χ²/NDF: 1566539.8/34
In: 6715.731+/-0.976 χ²/NDF:1390647.6/36
Out: 6702.082+/-0.948 χ²/NDF:1223709.2/41
All: 6708.704+/-0.680 χ²/NDF: 2614457.4/78




Right In: 0.117+/-0.273 $\chi^2$/NDF: 8.1/15

Left Out: -0.099+/-0.177 $\chi^2$/NDF:15.1/22

Right Out: 0.012+/-0.263 $\chi^2$/NDF: 25.2/18

Left In: 0.037+/-0.174 $\chi^2$/NDF:13.3/20

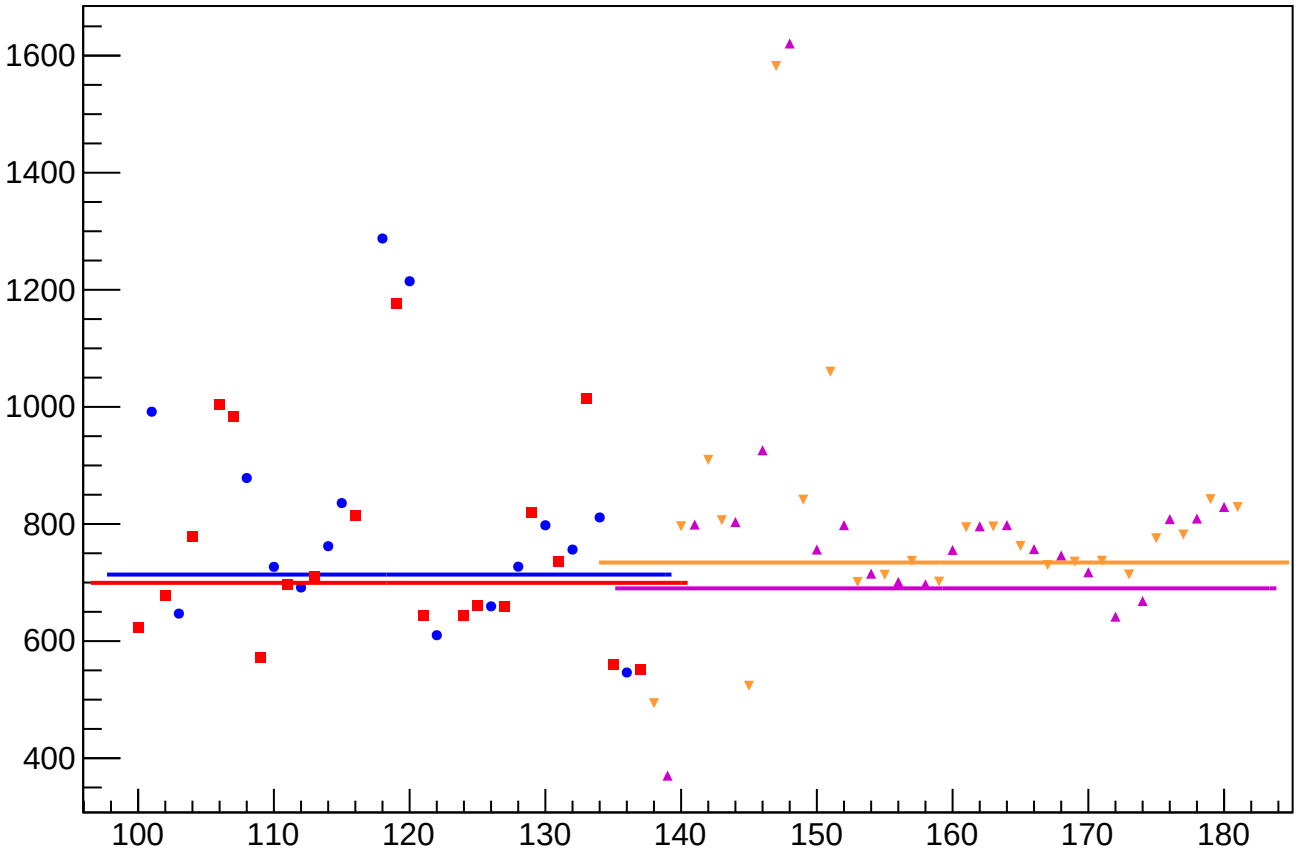
Left: -0.029+/-0.124 $\chi^2$/NDF: 28.8/43

Right: 0.063+/-0.190 $\chi^2$/NDF: 33.4/34

In: 0.060+/-0.147 $\chi^2$/NDF:21.5/36

Out: -0.064+/-0.147 $\chi^2$/NDF:40.4/41

All: -0.002+/-0.104 $\chi^2$/NDF: 62.3/78




Right In: 713.627+/-0.193 $\chi^2$/NDF: 699303.9/15

Left Out: 734.254+/-0.125 $\chi^2$/NDF:1330860.9/22

Right Out: 699.502+/-0.186 $\chi^2$/NDF: 575759.9/18

Left In: 690.071+/-0.123 $\chi^2$/NDF:2201946.3/20

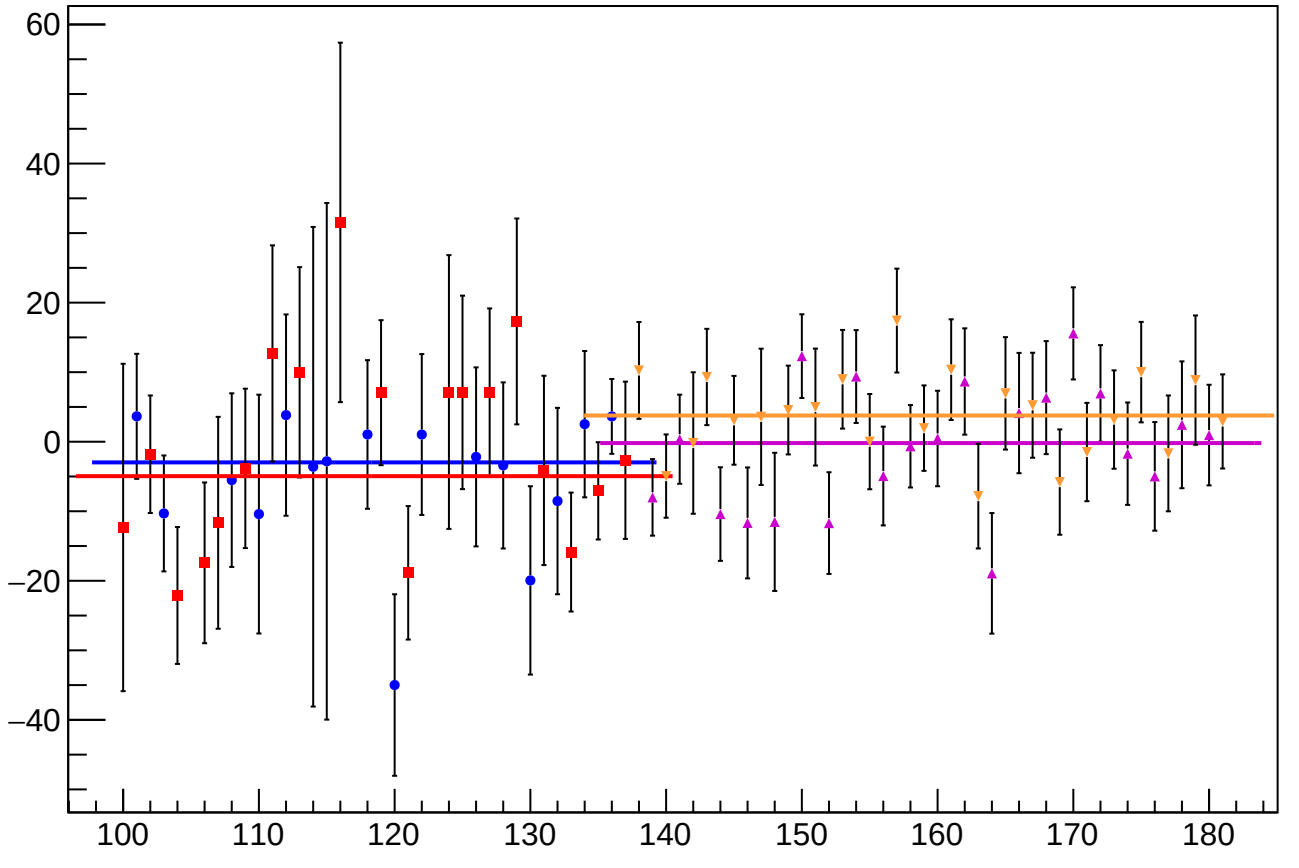
Left: 711.735+/-0.088 $\chi^2$/NDF: 3596281.9/43

Right: 706.303+/-0.134 $\chi^2$/NDF: 1277836.8/34

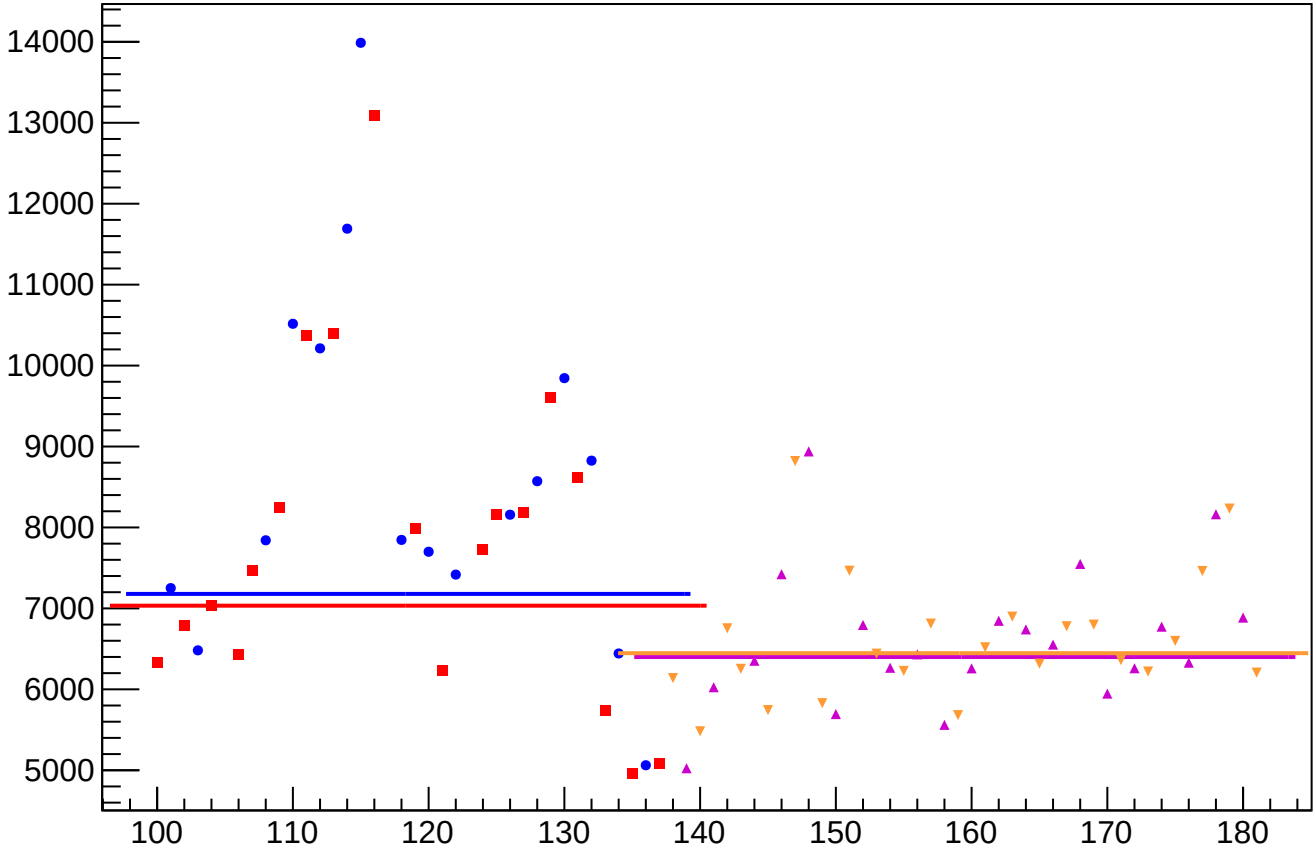
In: 696.851+/-0.104 $\chi^2$/NDF:2911842.2/36

Out: 723.427+/-0.104 $\chi^2$/NDF:1930624.2/41

All: 710.107+/-0.073 $\chi^2$/NDF: 4875269.2/78


diff_bpm_4aY_4ecY_avg_mean vs Slug, Sign Corrected
60
40
20
0
−20
−40
100
110
120
130
140
150
160
170
180
Right In: -2.974+/-2.746 χ²/NDF: 11.6/15
Left Out: 3.767+/-1.521 χ²/NDF:15.1/22
Right Out: -4.955+/-2.653 χ²/NDF: 18.5/18
Left In: -0.196+/-1.558 χ²/NDF:31.2/20
Left: 1.833+/-1.088 χ²/NDF: 49.6/43
Right: -3.999+/-1.908 χ²/NDF: 30.3/34
In: -0.873+/-1.355 χ²/NDF:43.5/36
Out: 1.609+/-1.320 χ²/NDF:41.7/41
All: 0.401+/-0.945 χ²/NDF: 87.0/78

# diff_bpm_4aY_4ecY_avg_rms vs Slug, Sign Corrected




Right In: 7178.925+/-1.942 $\chi^2$/NDF: 761936.2/15

Left Out: 6446.659+/-1.076 $\chi^2$/NDF:412265.1/22

Right Out: 7033.538+/-1.876 $\chi^2$/NDF: 766389.2/18

Left In: 6399.131+/-1.102 $\chi^2$/NDF:520168.2/20

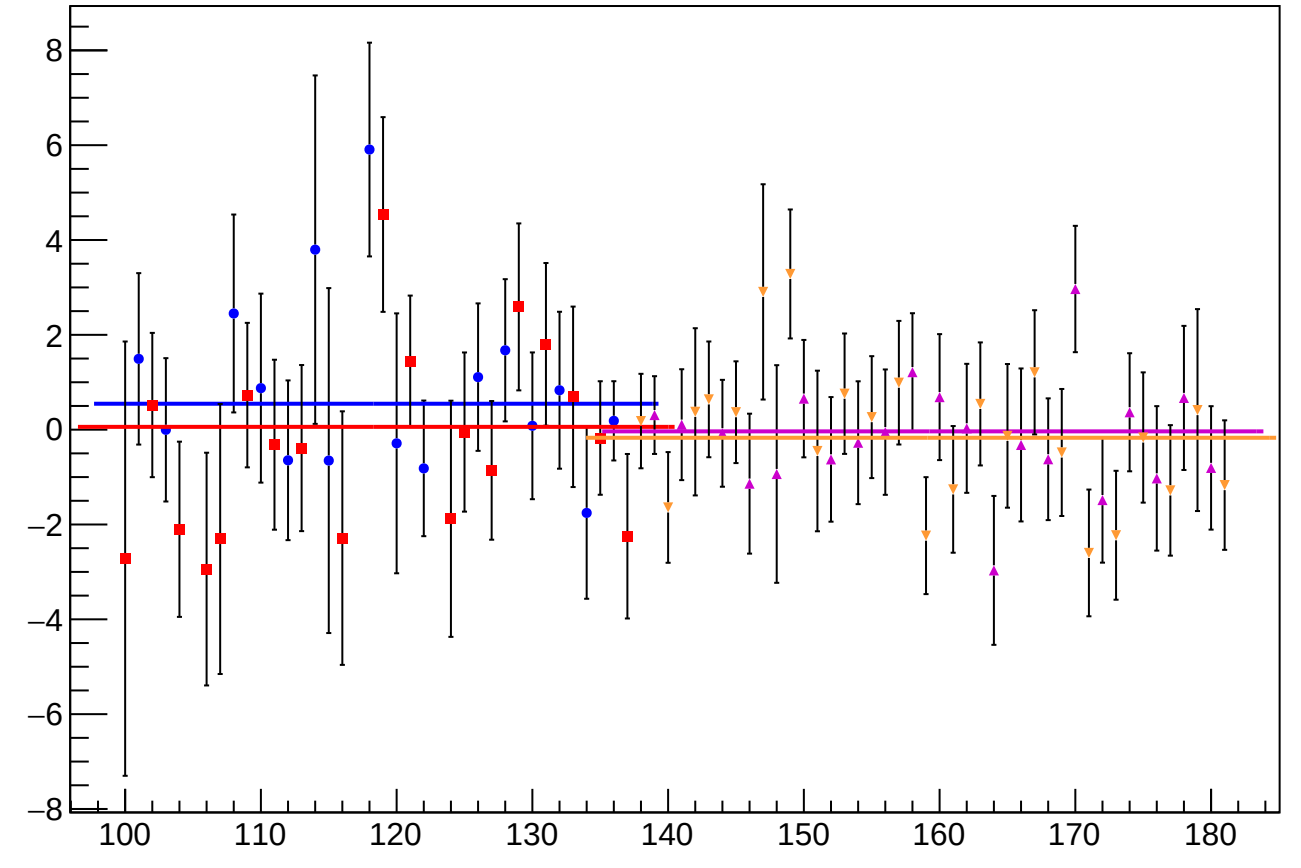
Left: 6423.465+/-0.770 $\chi^2$/NDF: 933386.1/43

Right: 7103.732+/-1.349 $\chi^2$/NDF: 1531224.9/34

In: 6589.046+/-0.958 $\chi^2$/NDF:1404103.5/36

Out: 6591.851+/-0.933 $\chi^2$/NDF:1252301.2/41

All: 6590.486+/-0.669 $\chi^2$/NDF: 2656409.1/78




Right In: 0.547+/-0.411 $\chi^2$/NDF: 11.9/15

Left Out: -0.171+/-0.279 $\chi^2$/NDF:24.0/22

Right Out: 0.059+/-0.409 $\chi^2$/NDF: 16.9/18

Left In: -0.036+/-0.284 $\chi^2$/NDF:13.9/20

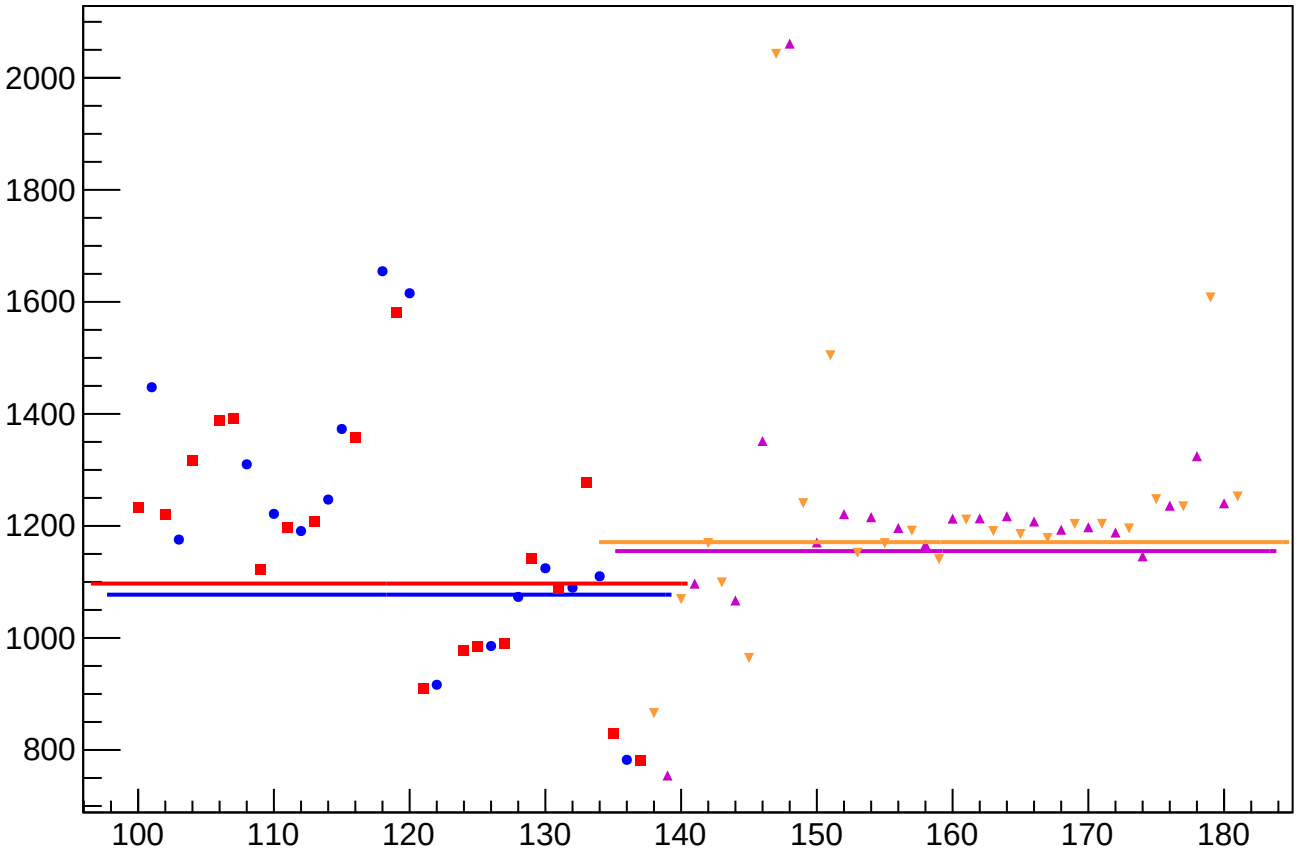
Left: -0.104+/-0.199 $\chi^2$/NDF: 38.0/43

Right: 0.302+/-0.290 $\chi^2$/NDF: 29.5/34

In: 0.152+/-0.233 $\chi^2$/NDF:27.2/36

Out: -0.098+/-0.231 $\chi^2$/NDF:41.1/41

All: 0.026+/-0.164 $\chi^2$/NDF: 68.9/78




Right In: 1077.306+/-0.291 $\chi^2$/NDF: 646521.7/15

Left Out: 1171.066+/-0.198 $\chi^2$/NDF:771366.9/22

Right Out: 1097.108+/-0.289 $\chi^2$/NDF: 484370.7/18

Left In: 1155.056+/-0.200 $\chi^2$/NDF:910771.6/20

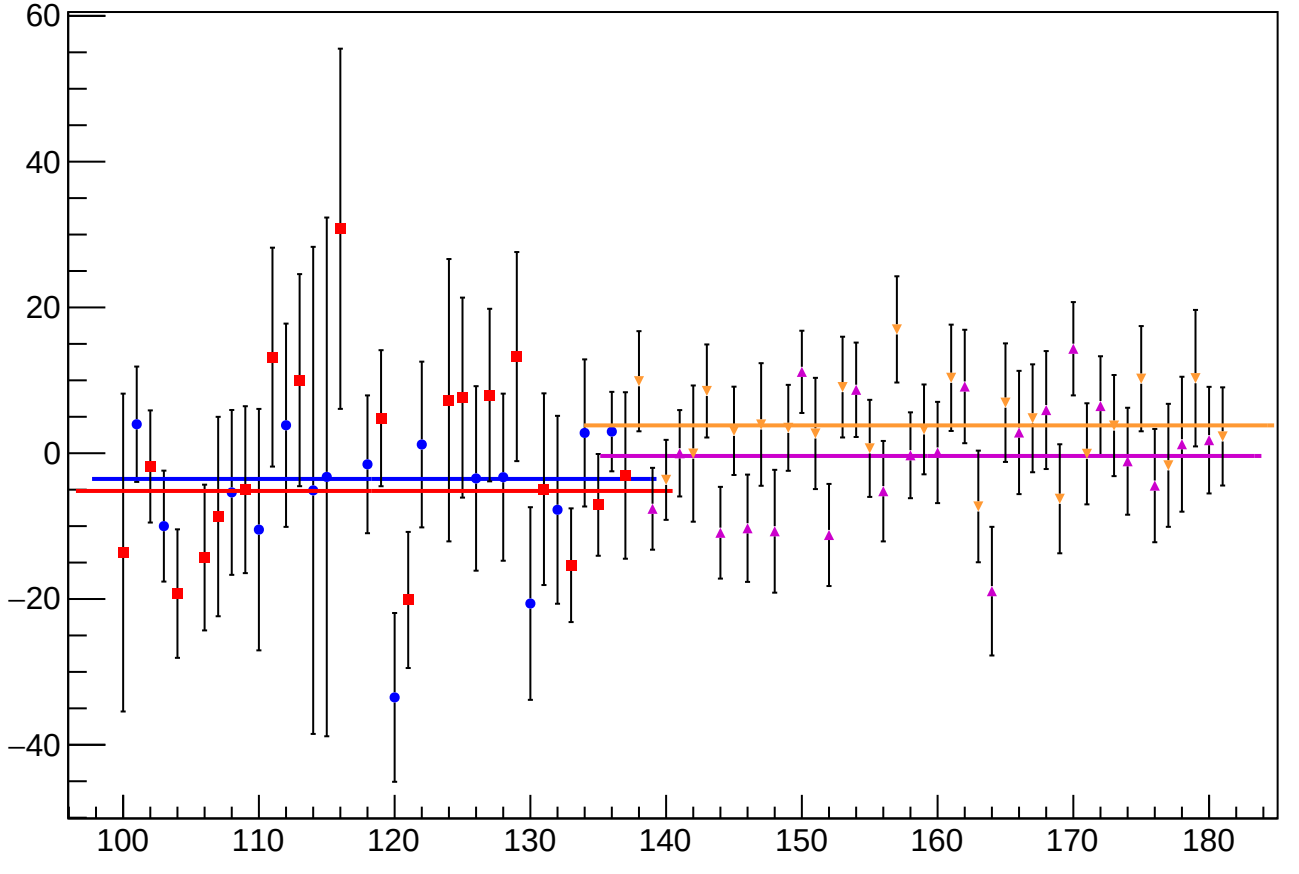
Left: 1163.176+/-0.141 $\chi^2$/NDF: 1685372.9/43

Right: 1087.256+/-0.205 $\chi^2$/NDF: 1133226.7/34

In: 1129.978+/-0.165 $\chi^2$/NDF:1605810.5/36

Out: 1147.513+/-0.163 $\chi^2$/NDF:1300341.3/41

All: 1138.845+/-0.116 $\chi^2$/NDF: 2911862.3/78




Right In: -3.527+/-2.608 $\chi^2$/NDF: 12.6/15

Left Out: 3.819+/-1.472 $\chi^2$/NDF:14.4/22

Right Out: -5.176+/-2.508 $\chi^2$/NDF: 18.2/18

Left In: -0.375+/-1.518 $\chi^2$/NDF:30.2/20

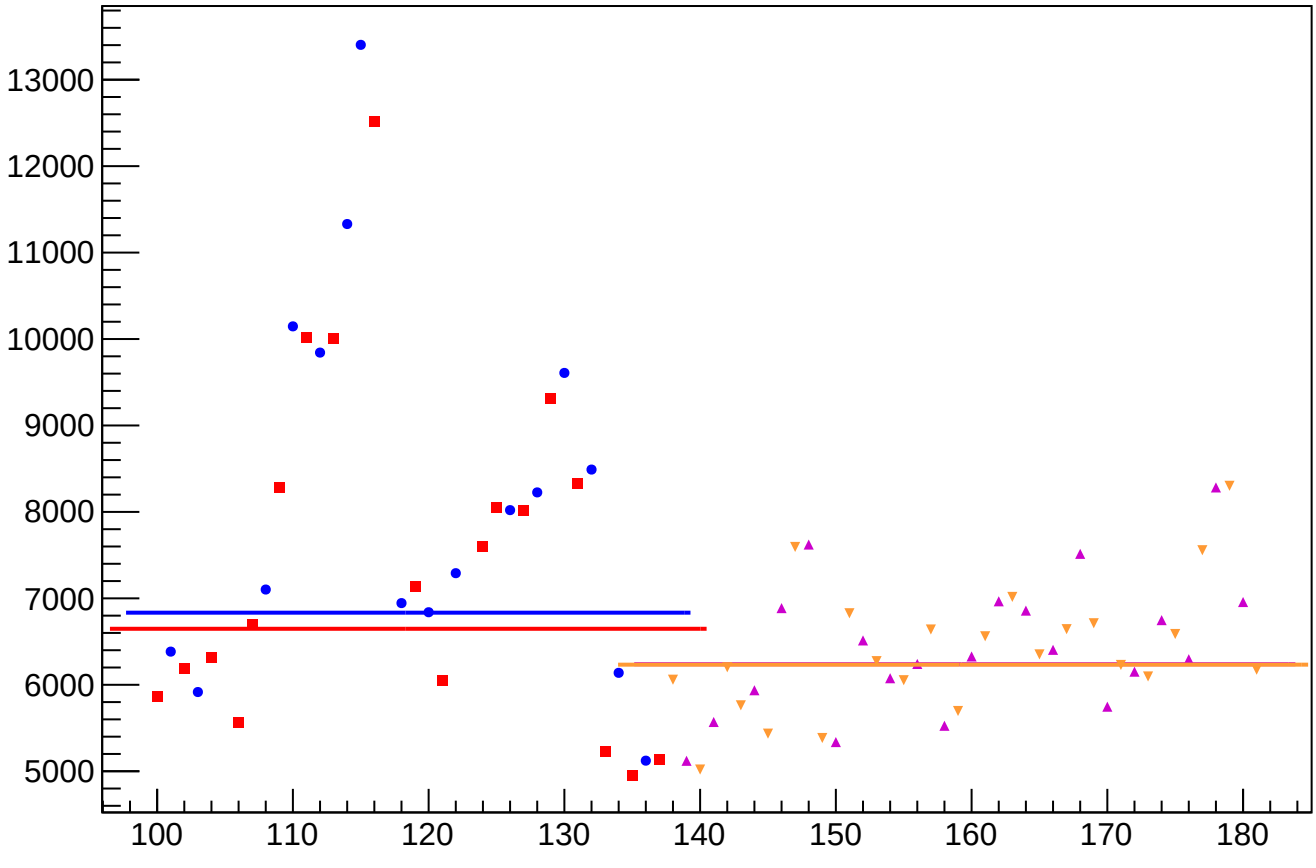
Left: 1.786+/-1.056 $\chi^2$/NDF: 48.5/43

Right: -4.384+/-1.808 $\chi^2$/NDF: 31.0/34

In: -1.172+/-1.312 $\chi^2$/NDF:43.9/36

Out: 1.515+/-1.269 $\chi^2$/NDF:42.2/41

All: 0.216+/-0.912 $\chi^2$/NDF: 88.2/78




Right In: 6834.346+/-1.844 $\chi^2$/NDF: 692722.6/15

Left Out: 6232.928+/-1.041 $\chi^2$/NDF:465989.8/22

Right Out: 6647.996+/-1.773 $\chi^2$/NDF: 785102.6/18

Left In: 6238.149+/-1.073 $\chi^2$/NDF:480490.7/20

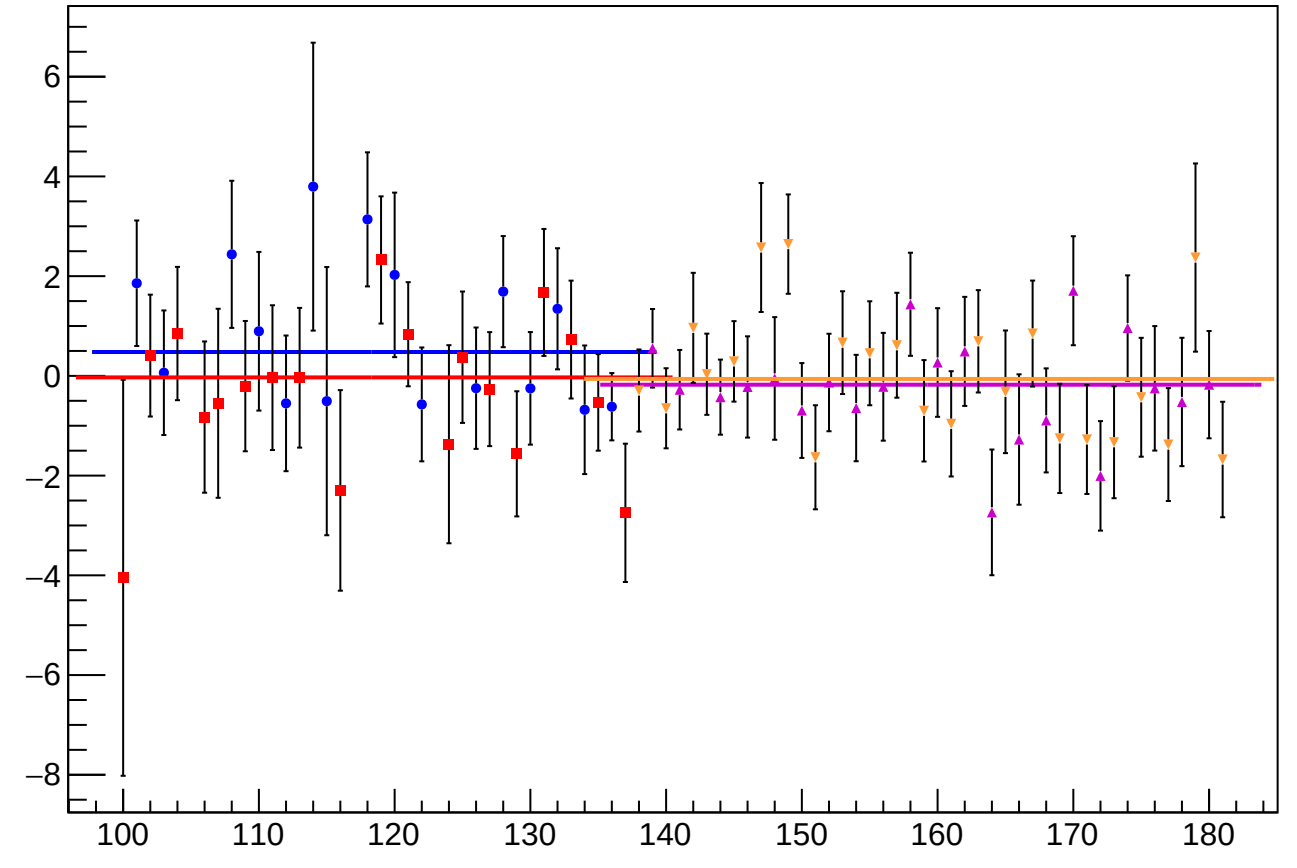
Left: 6235.458+/-0.747 $\chi^2$/NDF: 946492.8/43

Right: 6737.523+/-1.278 $\chi^2$/NDF: 1483130.1/34

In: 6388.936+/-0.927 $\chi^2$/NDF:1251288.6/36

Out: 6339.236+/-0.897 $\chi^2$/NDF:1291842.8/41

All: 6363.269+/-0.645 $\chi^2$/NDF: 2544614.4/78




Right In: 0.479+/-0.311 $\chi^2$/NDF: 16.7/15

Left Out: -0.061+/-0.216 $\chi^2$/NDF:27.8/22

Right Out: -0.030+/-0.309 $\chi^2$/NDF: 15.7/18

Left In: -0.177+/-0.224 $\chi^2$/NDF:16.7/20

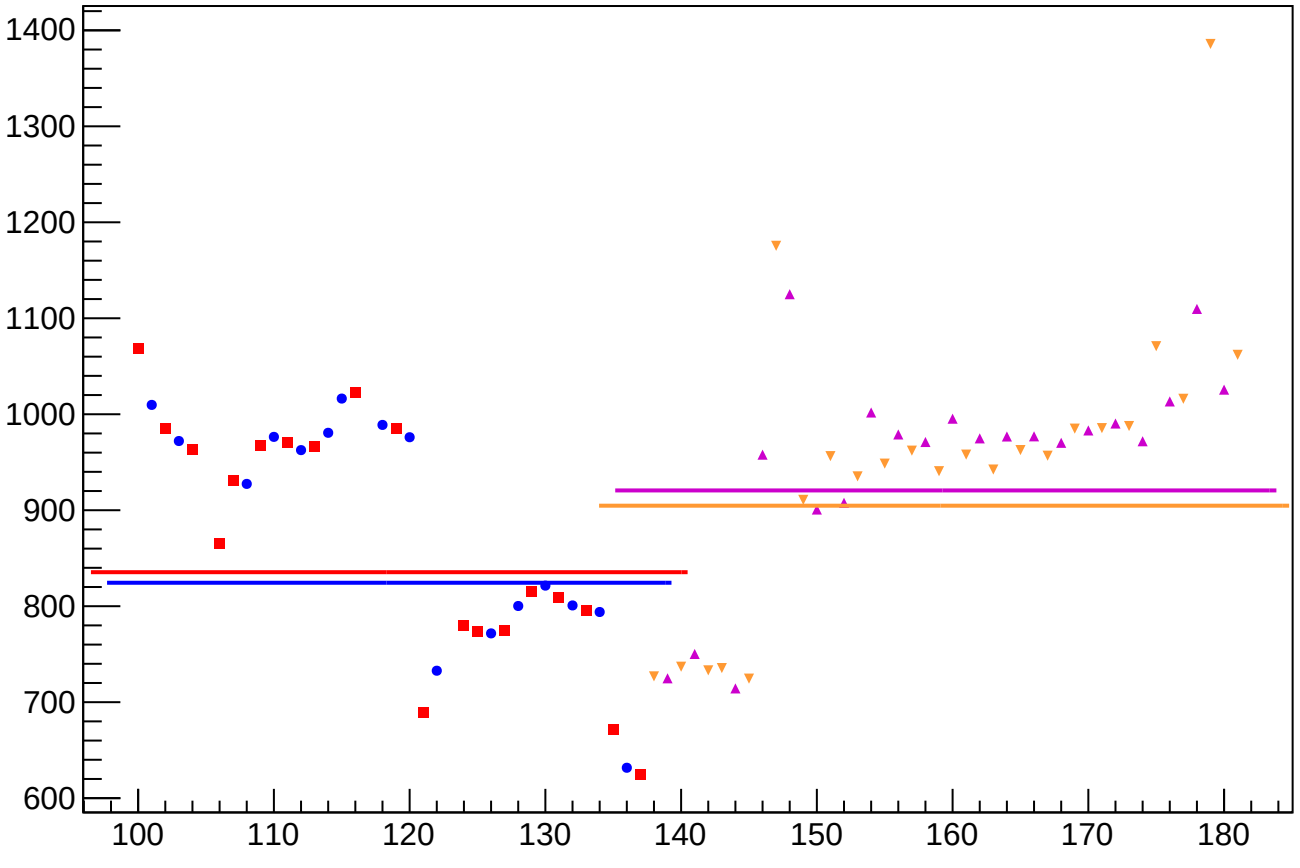
Left: -0.117+/-0.155 $\chi^2$/NDF: 44.7/43

Right: 0.222+/-0.219 $\chi^2$/NDF: 33.8/34

In: 0.048+/-0.182 $\chi^2$/NDF:36.4/36

Out: -0.051+/-0.177 $\chi^2$/NDF:43.5/41

All: -0.003+/-0.127 $\chi^2$/NDF: 80.1/78




Right In: 824.431+/-0.220 $\chi^2$/NDF: 365461.7/15

Left Out: 904.726+/-0.152 $\chi^2$/NDF:796209.9/22

Right Out: 835.437+/-0.218 $\chi^2$/NDF: 319302.1/18

Left In: 920.626+/-0.159 $\chi^2$/NDF:565416.8/20

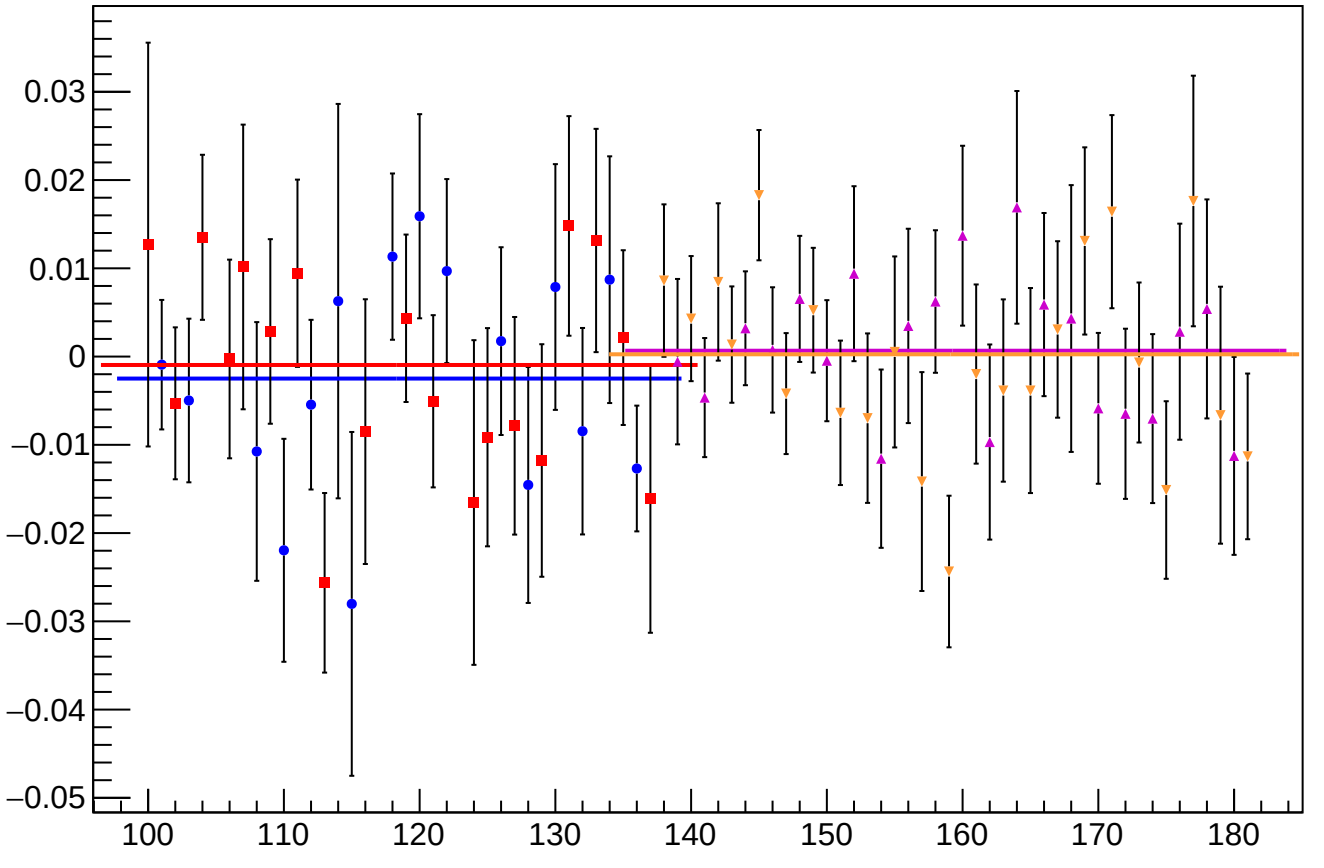
Left: 912.363+/-0.110 $\chi^2$/NDF: 1366852.4/43

Right: 829.974+/-0.155 $\chi^2$/NDF: 686027.0/34

In: 887.692+/-0.129 $\chi^2$/NDF:1056880.1/36

Out: 881.995+/-0.125 $\chi^2$/NDF:1183285.4/41

All: 884.762+/-0.090 $\chi^2$/NDF: 2241174.9/78




Right In: -0.002+/-0.003 $\chi^2$/NDF: 15.3/15

Left Out: 0.000+/-0.002 $\chi^2$/NDF:29.5/22

Right Out: -0.001+/-0.003 $\chi^2$/NDF: 17.3/18

Left In: 0.001+/-0.002 $\chi^2$/NDF:11.7/20

Left: 0.000+/-0.001 $\chi^2$/NDF: 41.2/43

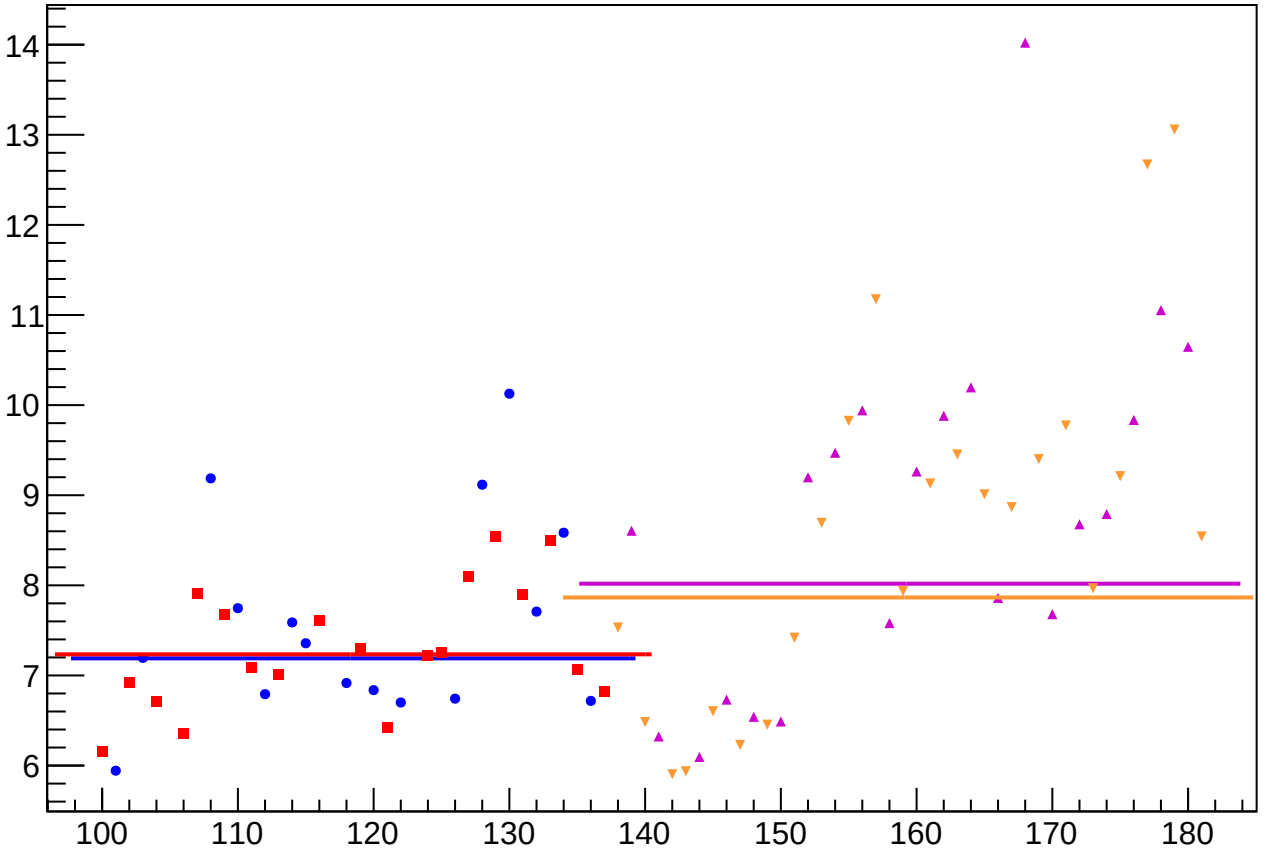
Right: -0.002+/-0.002 $\chi^2$/NDF: 32.8/34

In: -0.000+/-0.002 $\chi^2$/NDF:27.9/36

Out: -0.000+/-0.002 $\chi^2$/NDF:46.9/41

All: -0.000+/-0.001 $\chi^2$/NDF: 74.8/78

# diff_dispE_bpm12X_rms vs Slug, Sign Corrected




Right In: 7.190+/-0.002 $\chi^2$/NDF: 277639.9/15

Left Out: 7.866+/-0.001 $\chi^2$/NDF:1579097.2/22

Right Out: 7.234+/-0.002 $\chi^2$/NDF: 106266.0/18

Left In: 8.018+/-0.001 $\chi^2$/NDF:1455709.8/20

Left: 7.938+/-0.001 $\chi^2$/NDF: 3041034.7/43

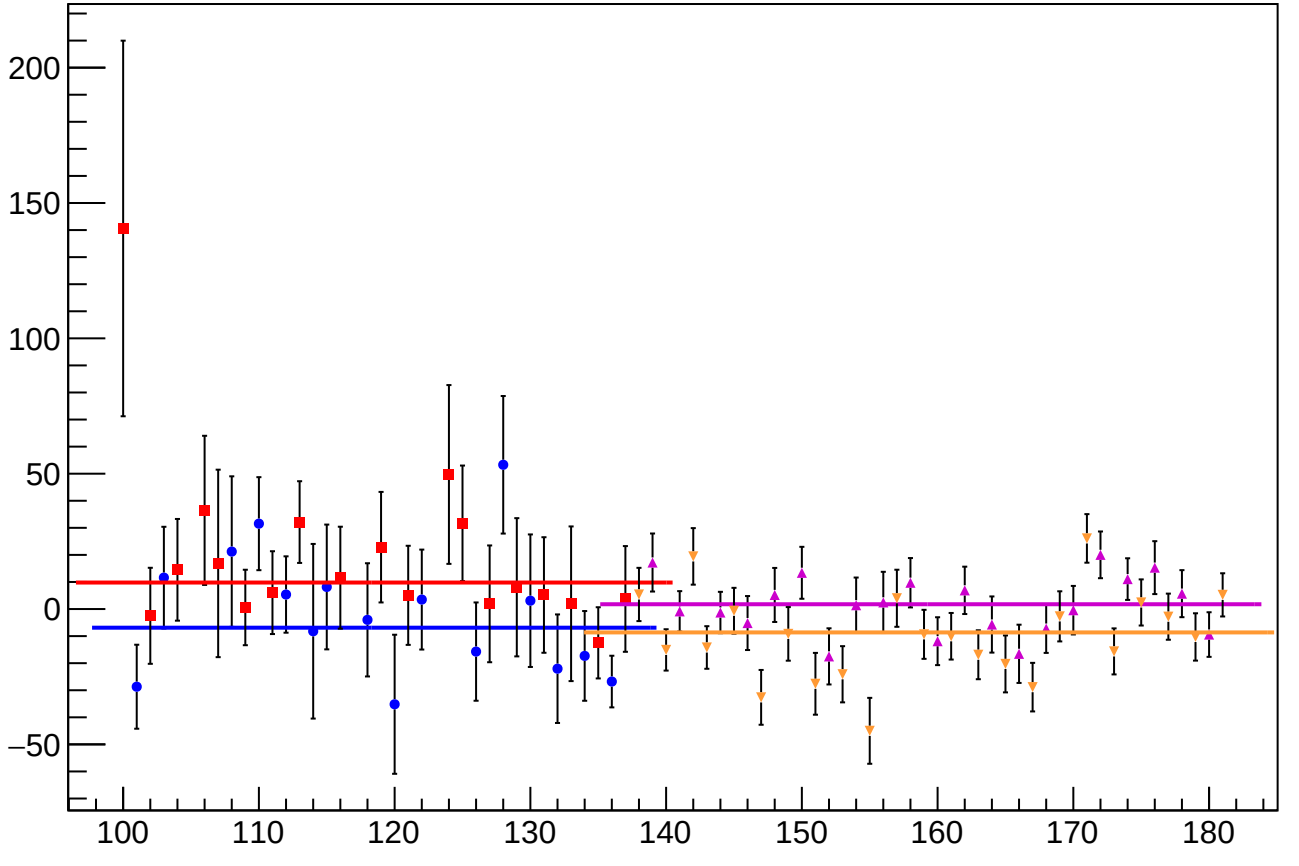
Right: 7.213+/-0.001 $\chi^2$/NDF: 384182.4/34

In: 7.730+/-0.001 $\chi^2$/NDF:1855319.9/36

Out: 7.654+/-0.001 $\chi^2$/NDF:1760202.9/41

All: 7.690+/-0.001 $\chi^2$/NDF: 3617890.1/78

# diff_targ_positionX_mean vs Slug, Sign Corrected




Right In: -6.891+/-4.488 $\chi^2$/NDF: 23.0/15

Left Out: -8.637+/-1.914 $\chi^2$/NDF:60.8/22

Right Out: 9.790+/-4.517 $\chi^2$/NDF: 14.0/18

Left In: 1.772+/-1.996 $\chi^2$/NDF:25.7/20

Left: -3.653+/-1.382 $\chi^2$/NDF: 100.7/43

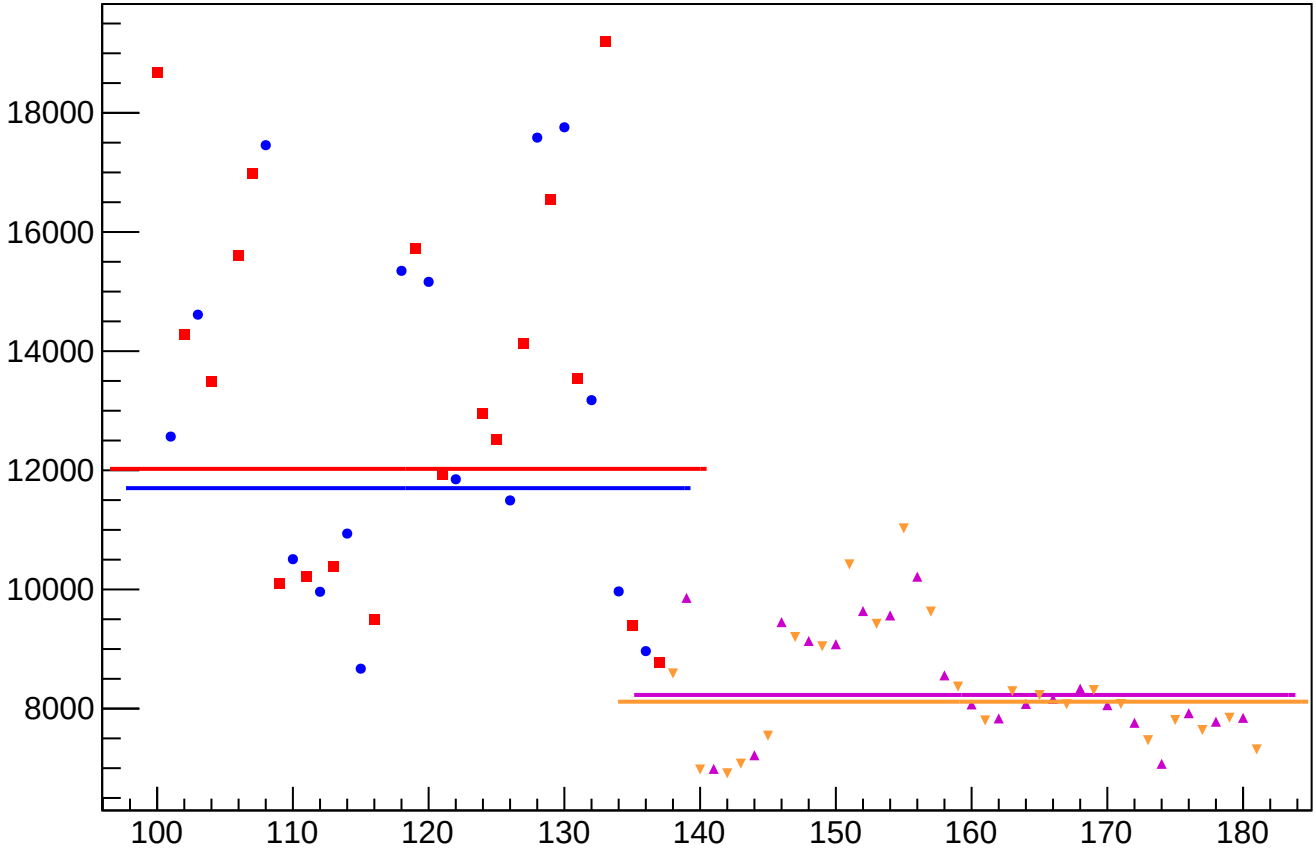
Right: 1.396+/-3.184 $\chi^2$/NDF: 43.9/34

In: 0.341+/-1.824 $\chi^2$/NDF:51.9/36

Out: -5.833+/-1.762 $\chi^2$/NDF:88.9/41

All: -2.853+/-1.267 $\chi^2$/NDF: 146.7/78

# diff_targ_positionX_rms vs Slug, Sign Corrected




Right In: 11700.622+/-3.174 $\chi^2$/NDF: 740185.3/15

Left Out: 8116.152+/-1.353 $\chi^2$/NDF:477534.7/22

Right Out: 12024.262+/-3.194 $\chi^2$/NDF: 684788.9/18

Left In: 8229.225+/-1.412 $\chi^2$/NDF:403030.5/20

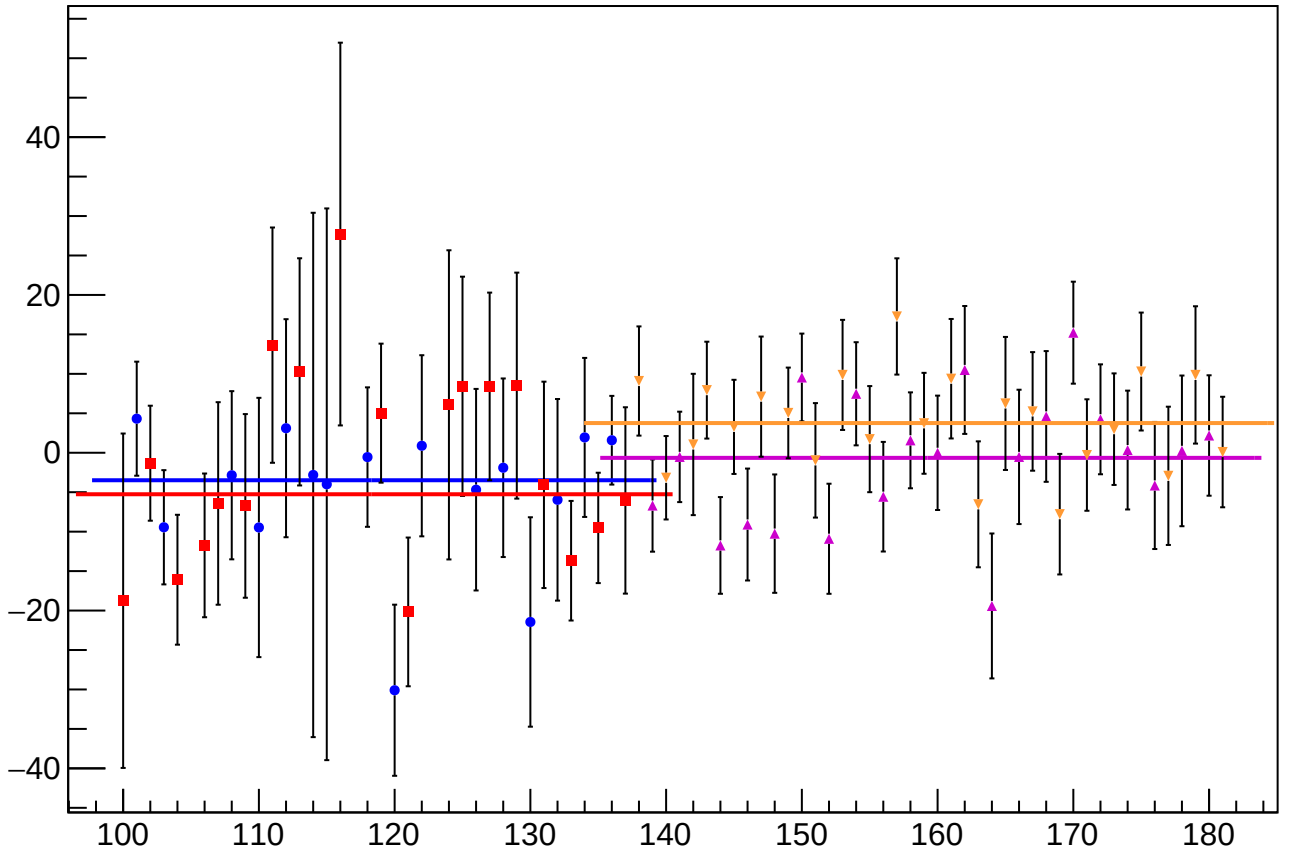
Left: 8170.293+/-0.977 $\chi^2$/NDF: 883908.7/43

Right: 11861.399+/-2.251 $\chi^2$/NDF: 1430140.0/34

In: 8802.632+/-1.290 $\chi^2$/NDF:2141970.8/36

Out: 8710.753+/-1.246 $\chi^2$/NDF:2431479.8/41

All: 8755.101+/-0.896 $\chi^2$/NDF: 4576075.4/78




Right In: -3.485+/-2.550 $\chi^2$/NDF: 11.5/15

Left Out: 3.763+/-1.470 $\chi^2$/NDF:14.8/22

Right Out: -5.259+/-2.446 $\chi^2$/NDF: 16.6/18

Left In: -0.648+/-1.528 $\chi^2$/NDF:28.5/20

Left: 1.642+/-1.060 $\chi^2$/NDF: 47.6/43

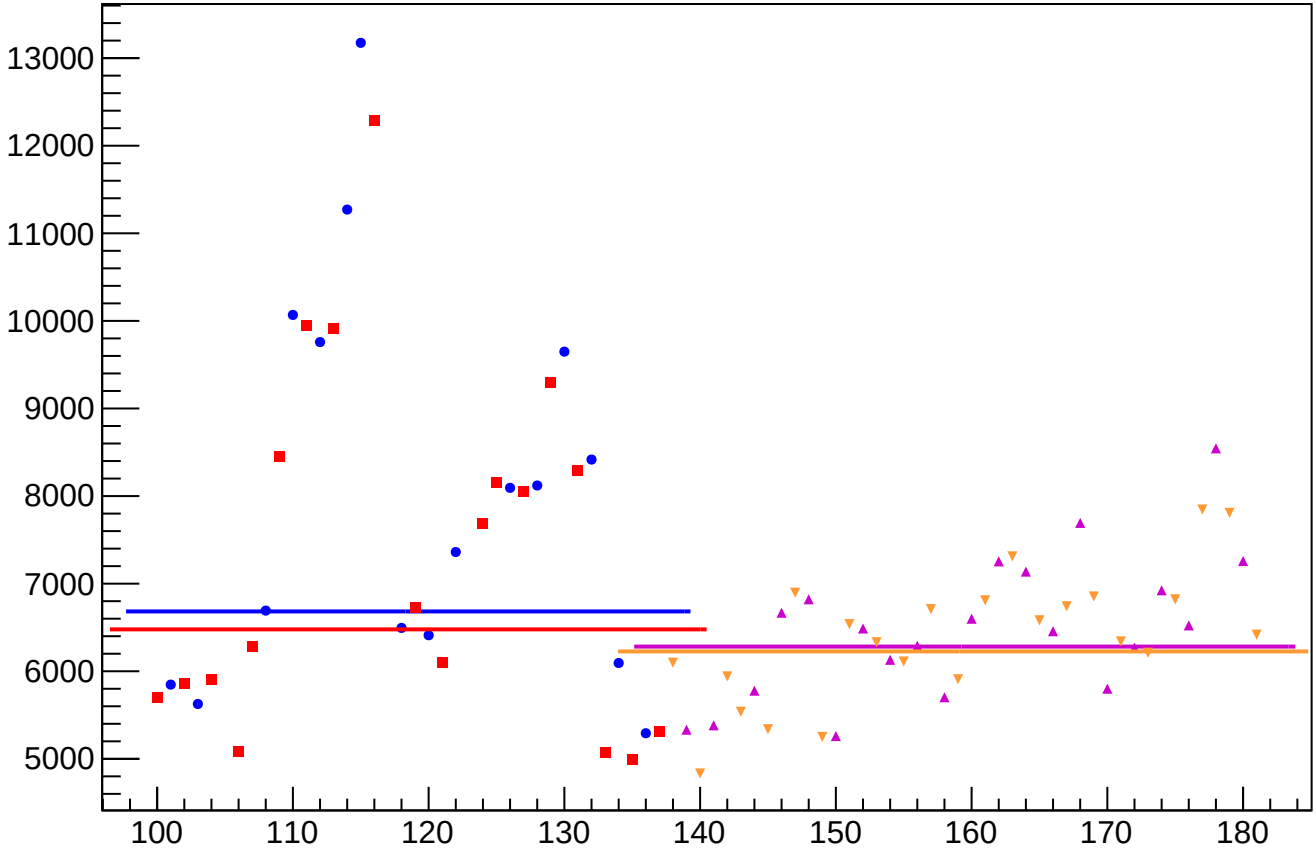
Right: -4.409+/-1.765 $\chi^2$/NDF: 28.3/34

In: -1.397+/-1.311 $\chi^2$/NDF:40.9/36

Out: 1.369+/-1.260 $\chi^2$/NDF:41.4/41

All: 0.040+/-0.908 $\chi^2$/NDF: 84.6/78

# diff_targ_positionY_rms vs Slug, Sign Corrected




Right In: 6682.988+/-1.803 $\chi^2$/NDF: 692200.2/15

Left Out: 6226.231+/-1.040 $\chi^2$/NDF:527210.5/22

Right Out: 6478.126+/-1.730 $\chi^2$/NDF: 839226.8/18

Left In: 6281.530+/-1.080 $\chi^2$/NDF:501708.2/20

Left: 6252.820+/-0.749 $\chi^2$/NDF: 1030278.7/43

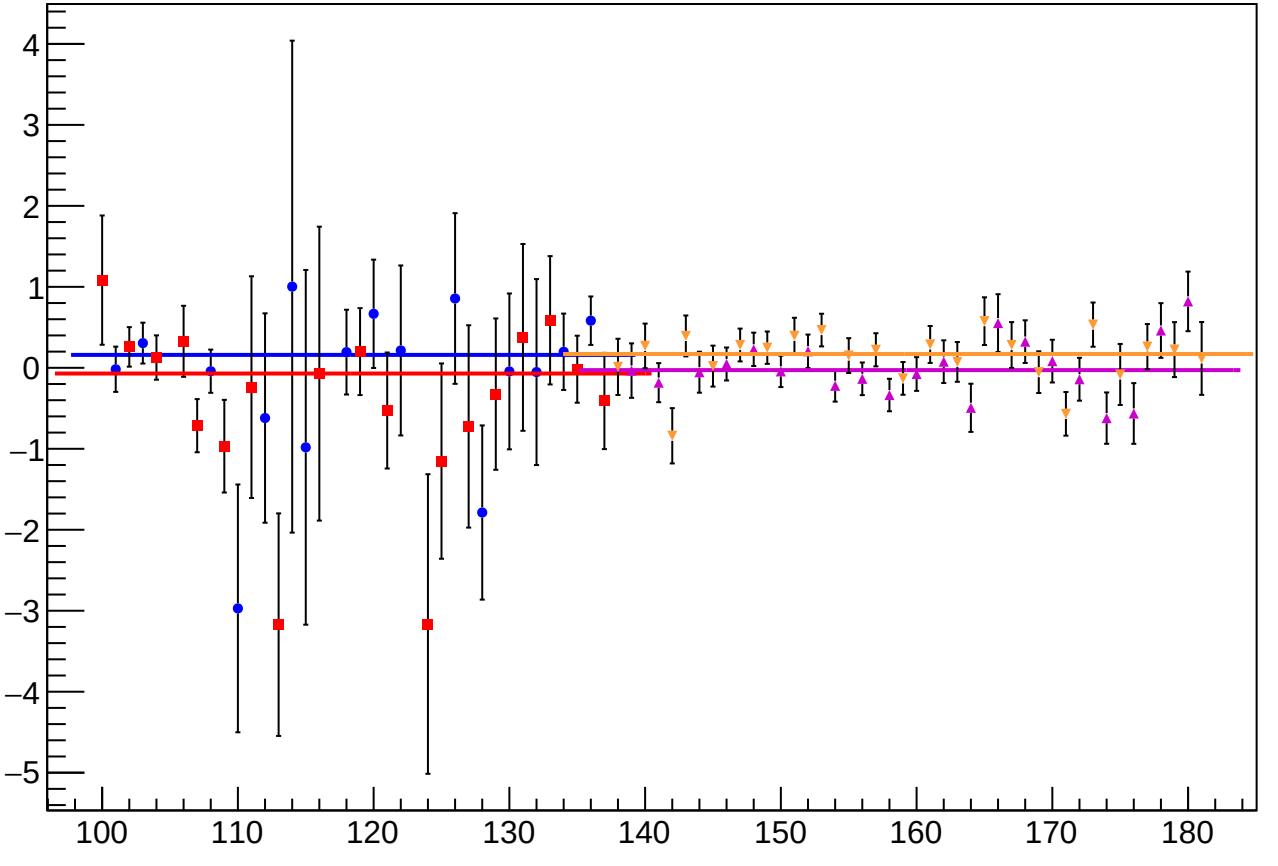
Right: 6576.323+/-1.248 $\chi^2$/NDF: 1538150.0/34

In: 6387.614+/-0.927 $\chi^2$/NDF:1230391.1/36

Out: 6293.087+/-0.891 $\chi^2$/NDF:1382014.3/41

All: 6338.501+/-0.642 $\chi^2$/NDF: 2617810.7/78

# diff_targ_thetaX_mean vs Slug, Sign Corrected




Right In: 0.160+/-0.120 $\chi^2$/NDF: 12.6/15

Left Out: 0.171+/-0.053 $\chi^2$/NDF:29.2/22

Right Out: -0.070+/-0.120 $\chi^2$/NDF: 22.5/18

Left In: -0.028+/-0.054 $\chi^2$/NDF:27.4/20

Left: 0.073+/-0.038 $\chi^2$/NDF: 63.7/43

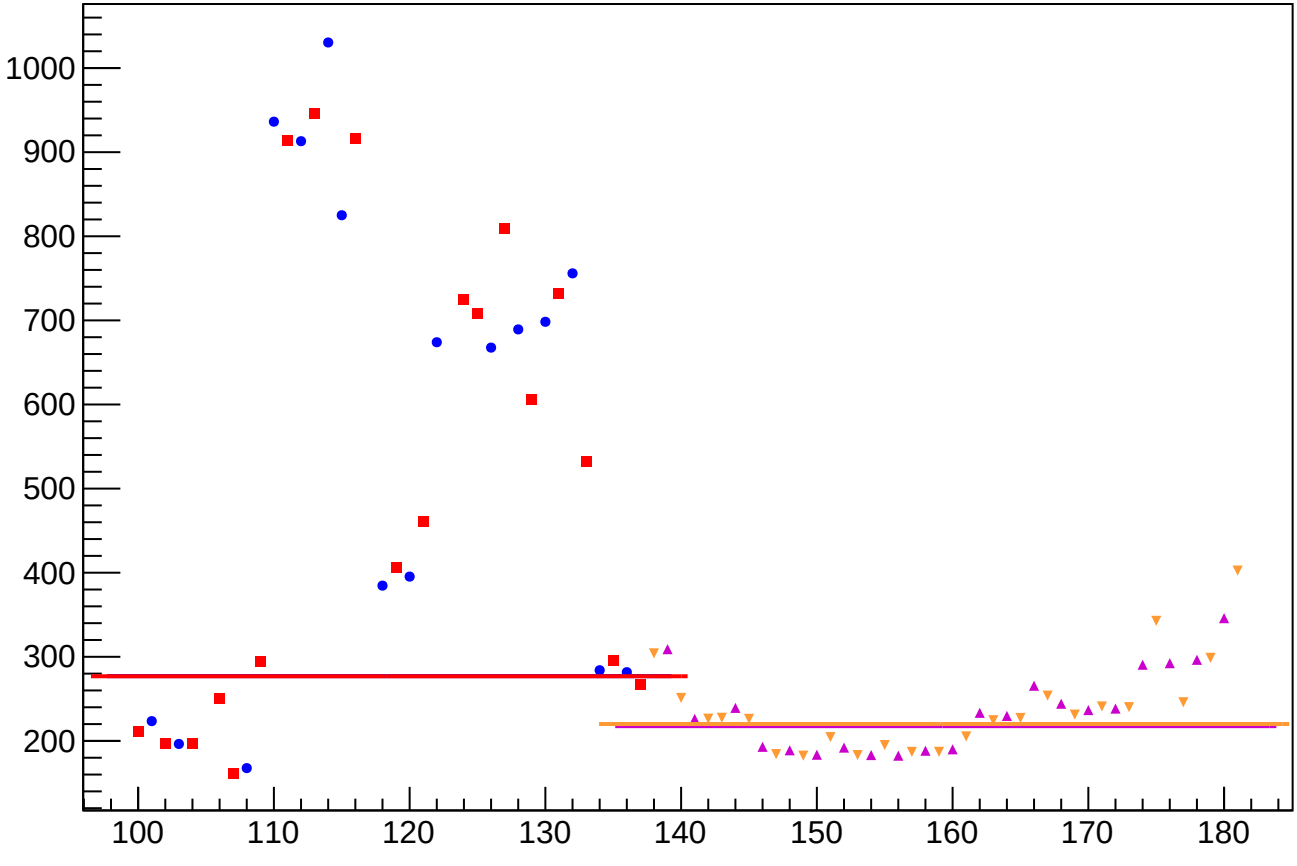
Right: 0.045+/-0.085 $\chi^2$/NDF: 36.9/34

In: 0.003+/-0.049 $\chi^2$/NDF:42.0/36

Out: 0.132+/-0.048 $\chi^2$/NDF:55.1/41

All: 0.068+/-0.034 $\chi^2$/NDF: 100.6/78

# diff_targ_thetaX_rms vs Slug, Sign Corrected




Right In: 277.017+/-0.085 $\chi^2$/NDF: 3450533.8/15

Left Out: 220.078+/-0.037 $\chi^2$/NDF:1220212.2/22

Right Out: 276.866+/-0.085 $\chi^2$/NDF: 3571620.7/18

Left In: 217.559+/-0.038 $\chi^2$/NDF:1154077.2/20

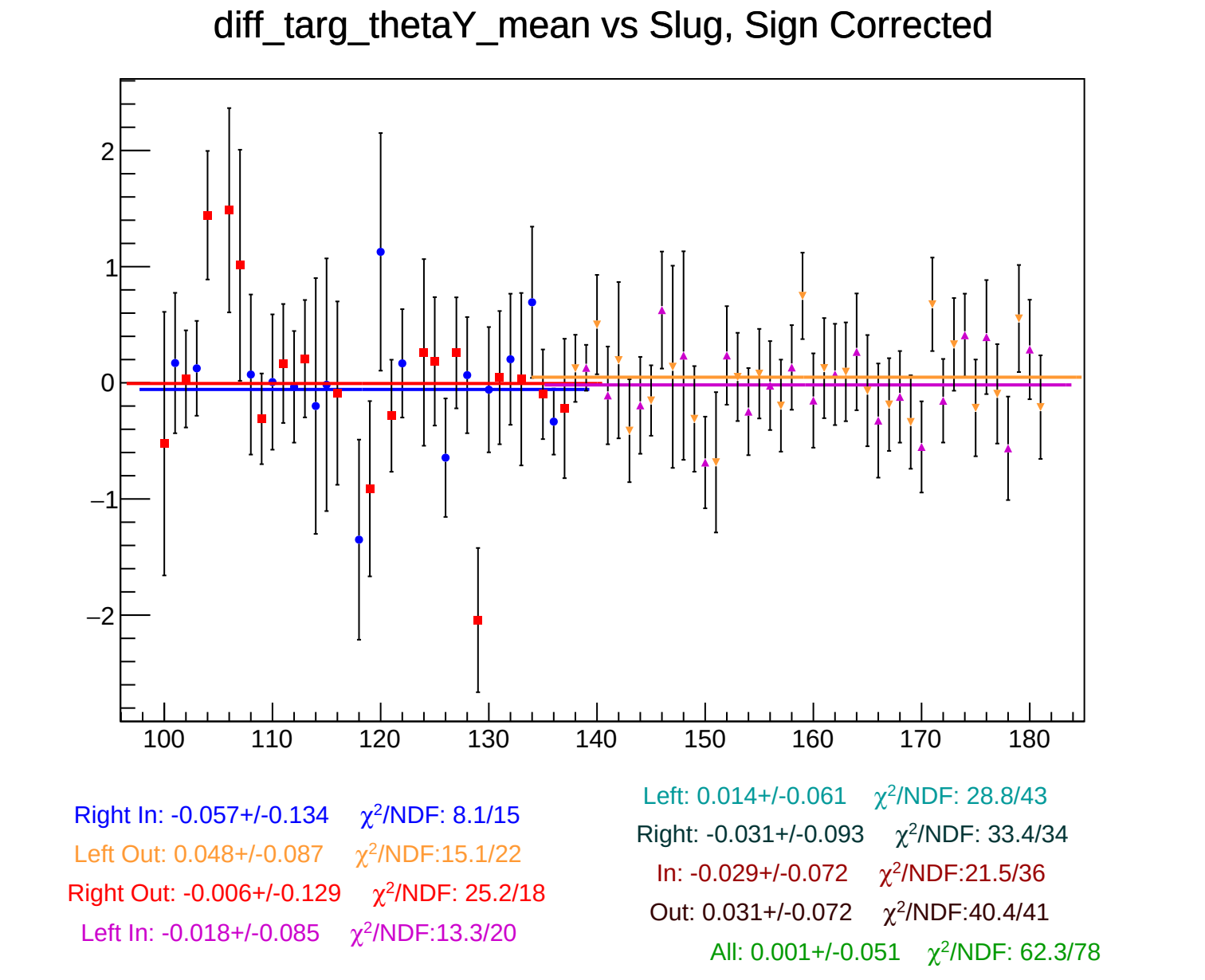
Left: 218.842+/-0.027 $\chi^2$/NDF: 2376539.0/43

Right: 276.942+/-0.060 $\chi^2$/NDF: 7022156.1/34

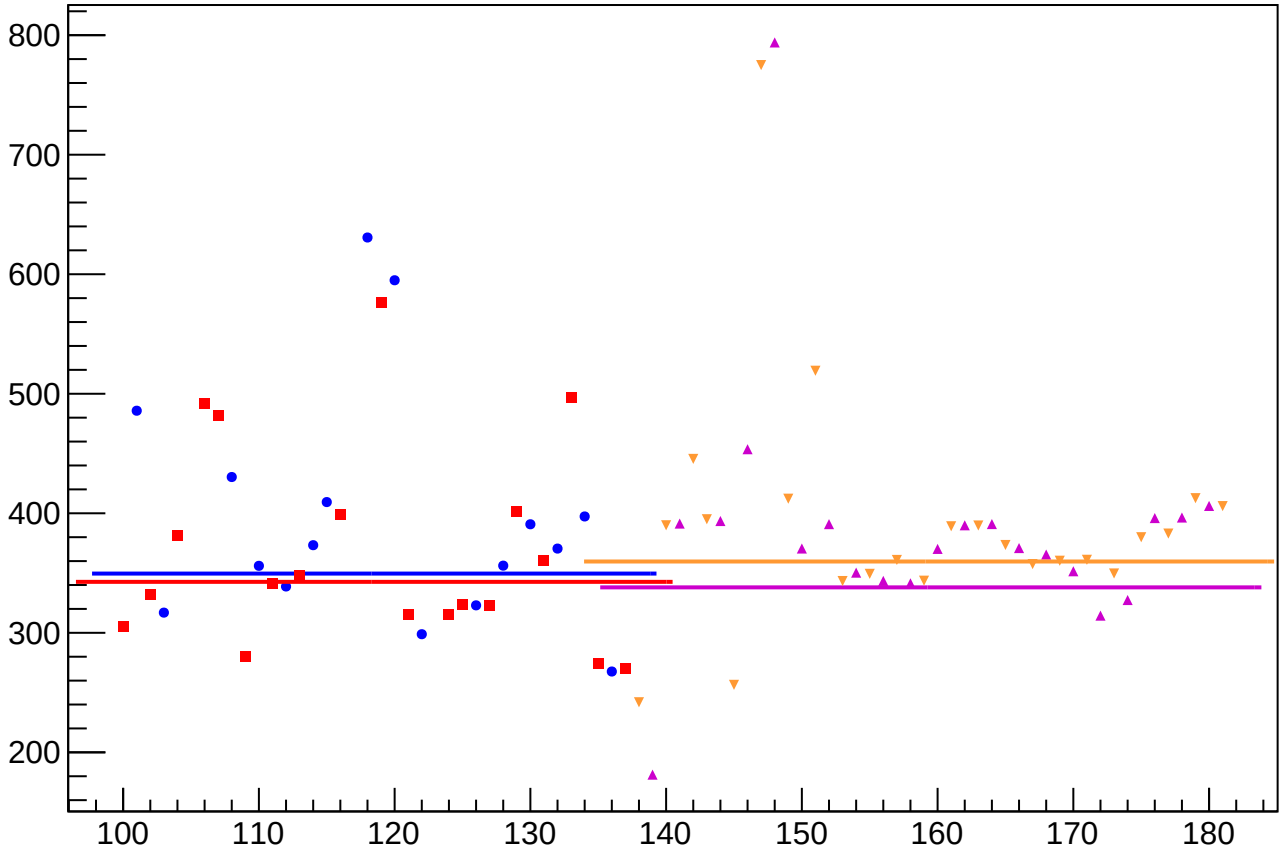
In: 227.509+/-0.035 $\chi^2$/NDF:5016322.7/36

Out: 229.276+/-0.034 $\chi^2$/NDF:5169071.8/41

All: 228.406+/-0.024 $\chi^2$/NDF: 10186719.8/78


diff_targ_thetaY_mean vs Slug, Sign Corrected
2
1
0
−1
−2
100
110
120
130
140
150
160
170
180
Right In: -0.057+/-0.134 χ²/NDF: 8.1/15
Left Out: 0.048+/-0.087 χ²/NDF:15.1/22
Right Out: -0.006+/-0.129 χ²/NDF: 25.2/18
Left In: -0.018+/-0.085 χ²/NDF:13.3/20
Left: 0.014+/-0.061 χ²/NDF: 28.8/43
Right: -0.031+/-0.093 χ²/NDF: 33.4/34
In: -0.029+/-0.072 χ²/NDF:21.5/36
Out: 0.031+/-0.072 χ²/NDF:40.4/41
All: 0.001+/-0.051 χ²/NDF: 62.3/78

# diff_targ_thetaY_rms vs Slug, Sign Corrected




Right In: 349.560+/-0.095 $\chi^2$/NDF: 699303.9/15

Left Out: 359.664+/-0.061 $\chi^2$/NDF:1330860.9/22

Right Out: 342.641+/-0.091 $\chi^2$/NDF: 575759.9/18

Left In: 338.022+/-0.060 $\chi^2$/NDF:2201946.3/20

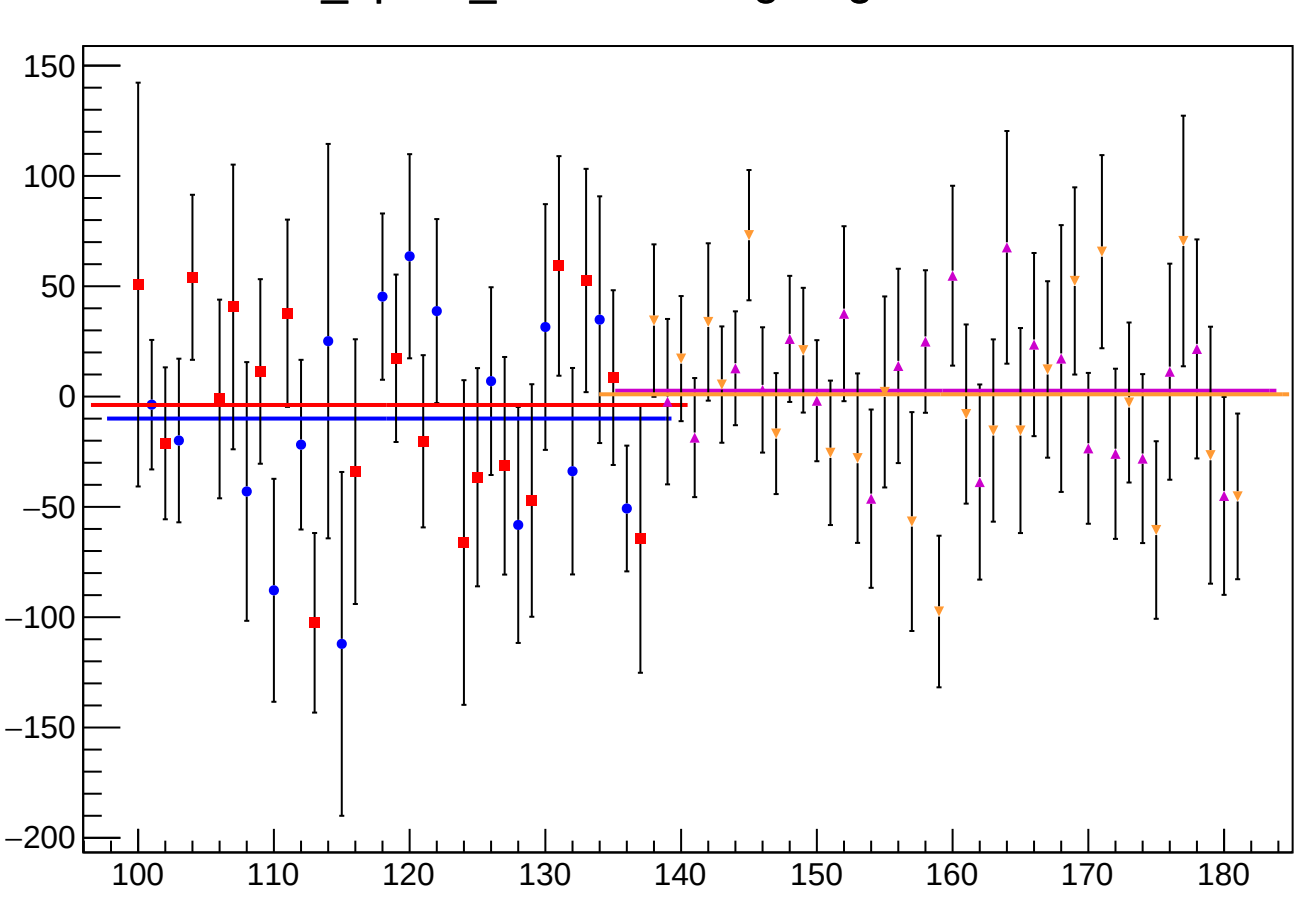
Left: 348.633+/-0.043 $\chi^2$/NDF: 3596281.9/43

Right: 345.972+/-0.066 $\chi^2$/NDF: 1277836.8/34

In: 341.343+/-0.051 $\chi^2$/NDF:2911842.2/36

Out: 354.361+/-0.051 $\chi^2$/NDF:1930624.2/41

All: 347.836+/-0.036 $\chi^2$/NDF: 4875269.2/78




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 1.032+/-7.563 $\chi^2$/NDF:29.5/22

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: 2.647+/-7.916 $\chi^2$/NDF:11.7/20

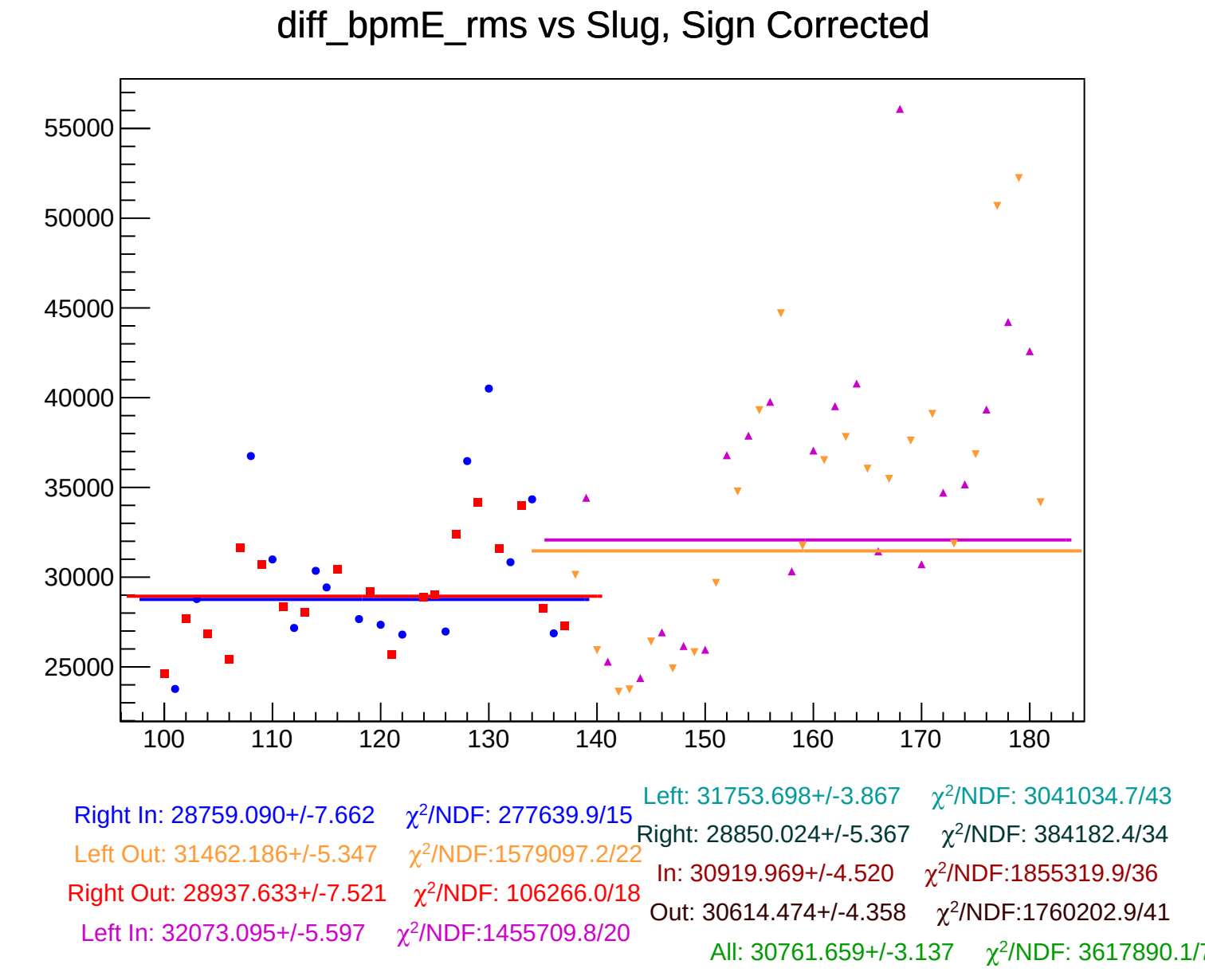
Left: 1.803+/-5.468 $\chi^2$/NDF: 41.2/43

Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

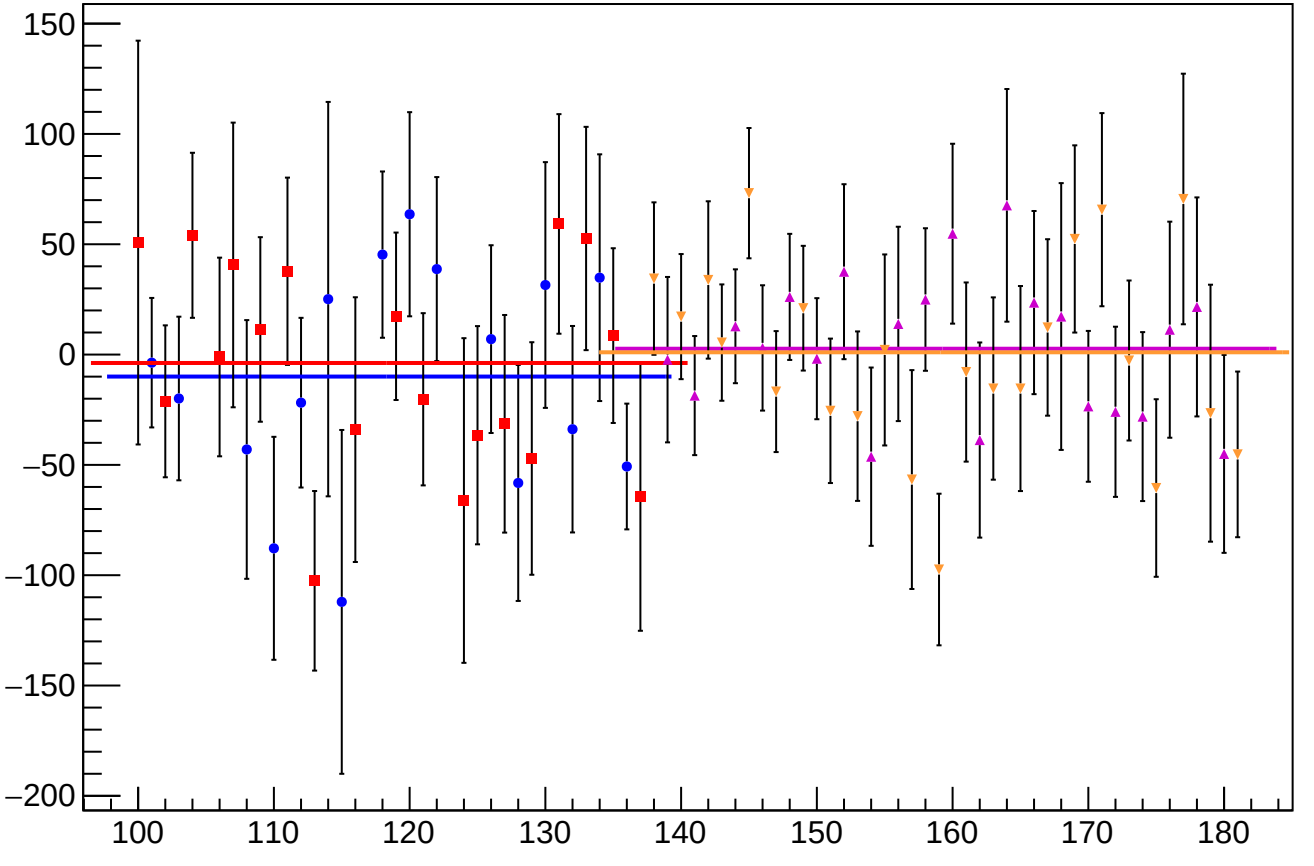
In: -1.743+/-6.392 $\chi^2$/NDF:27.9/36

Out: -0.595+/-6.163 $\chi^2$/NDF:46.9/41

All: -1.148+/-4.437 $\chi^2$/NDF: 74.8/78


diff_bpmE_rms vs Slug, Sign Corrected
55000
50000
45000
40000
35000
30000
25000
100
110
120
130
140
150
160
170
180
Right In: 28759.090+/-7.662 χ²/NDF: 277639.9/15
Left Out: 31462.186+/-5.347 χ²/NDF:1579097.2/22
Right Out: 28937.633+/-7.521 χ²/NDF: 106266.0/18
Left In: 32073.095+/-5.597 χ²/NDF:1455709.8/20
Left: 31753.698+/-3.867 χ²/NDF: 3041034.7/43
Right: 28850.024+/-5.367 χ²/NDF: 384182.4/34
In: 30919.969+/-4.520 χ²/NDF:1855319.9/36
Out: 30614.474+/-4.358 χ²/NDF:1760202.9/41
All: 30761.659+/-3.137 χ²/NDF: 3617890.1/7

# diff_bpmEX_mean vs Slug, Sign Corrected




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 1.032+/-7.563 $\chi^2$/NDF:29.5/22

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: 2.647+/-7.916 $\chi^2$/NDF:11.7/20

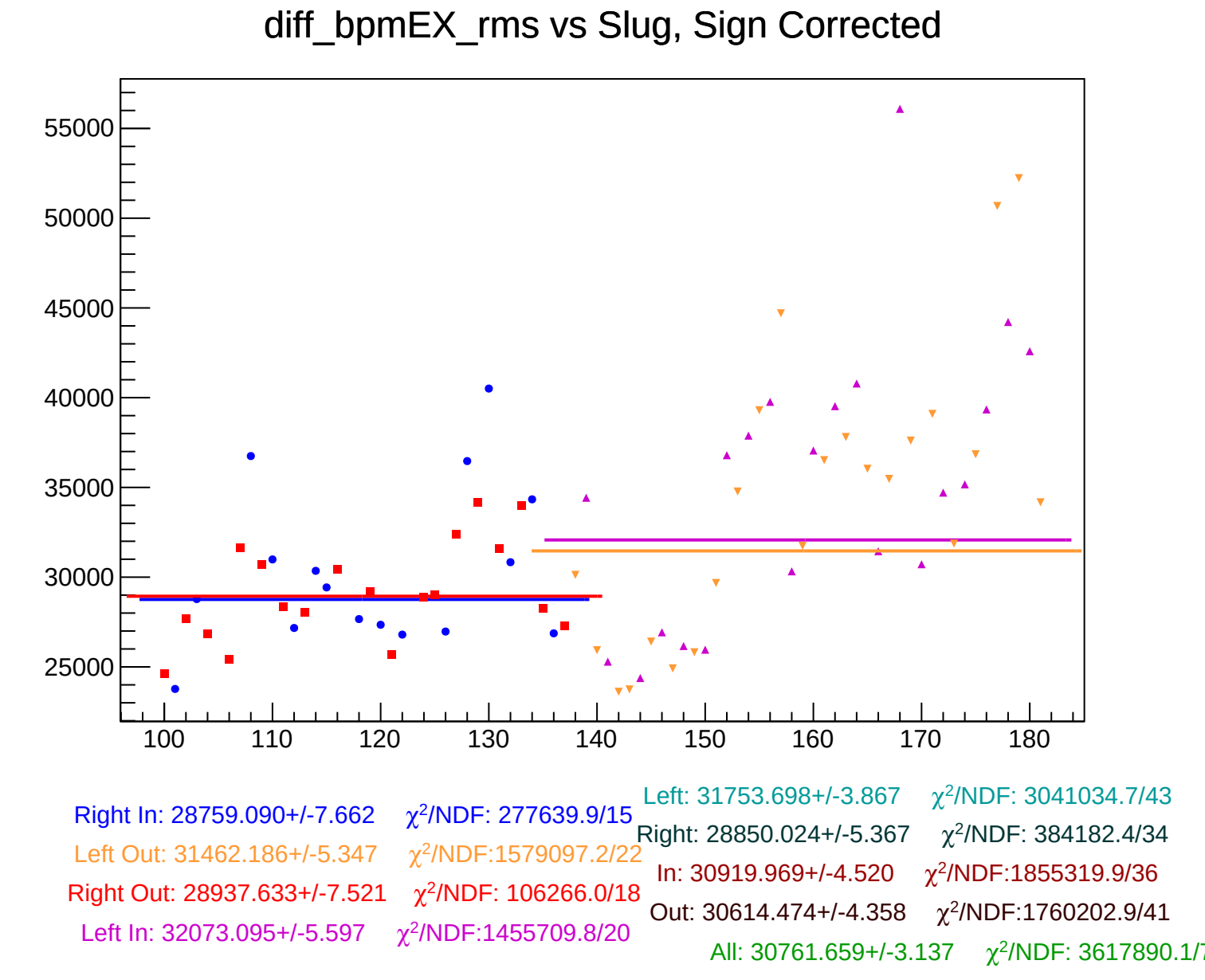
Left: 1.803+/-5.468 $\chi^2$/NDF: 41.2/43

Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

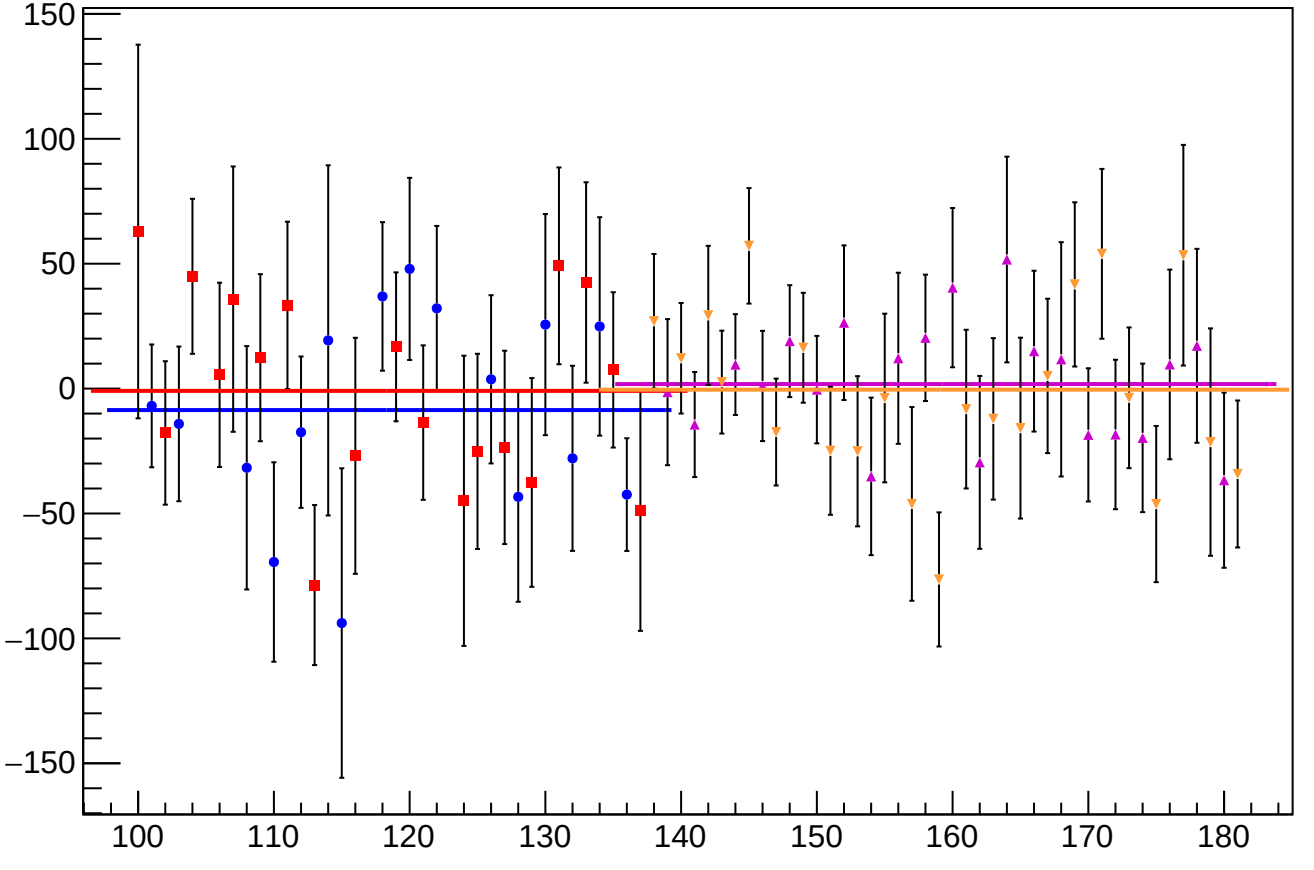
In: -1.743+/-6.392 $\chi^2$/NDF:27.9/36

Out: -0.595+/-6.163 $\chi^2$/NDF:46.9/41

All: -1.148+/-4.437 $\chi^2$/NDF: 74.8/78


diff_bpmEX_rms vs Slug, Sign Corrected
55000
50000
45000
40000
35000
30000
25000
100
110
120
130
140
150
160
170
180
Right In: 28759.090+/-7.662 χ²/NDF: 277639.9/15
Left Out: 31462.186+/-5.347 χ²/NDF:1579097.2/22
Right Out: 28937.633+/-7.521 χ²/NDF: 106266.0/18
Left In: 32073.095+/-5.597 χ²/NDF:1455709.8/20
Left: 31753.698+/-3.867 χ²/NDF: 3041034.7/43
Right: 28850.024+/-5.367 χ²/NDF: 384182.4/34
In: 30919.969+/-4.520 χ²/NDF:1855319.9/36
Out: 30614.474+/-4.358 χ²/NDF:1760202.9/41
All: 30761.659+/-3.137 χ²/NDF: 3617890.1/7

# diff_bpmE_11X12X_mean vs Slug, Sign Corrected




Right In: -8.599+/-8.678 $\chi^2$/NDF: 15.5/15

Left Out: -0.441+/-5.900 $\chi^2$/NDF:30.7/22

Right Out: -0.904+/-8.506 $\chi^2$/NDF: 17.6/18

Left In: 1.812+/-6.177 $\chi^2$/NDF:10.9/20

Left: 0.634+/-4.266 $\chi^2$/NDF: 41.7/43

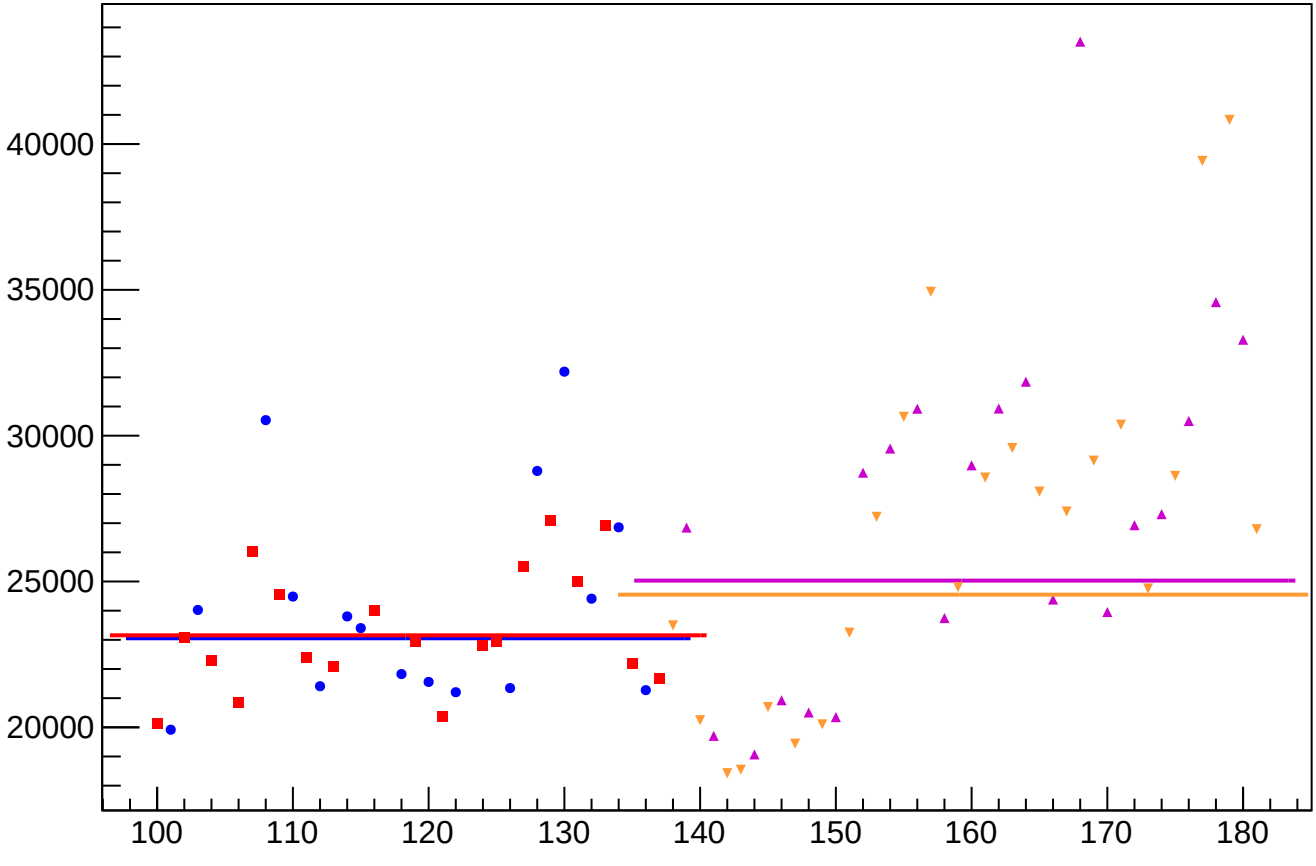
Right: -4.674+/-6.075 $\chi^2$/NDF: 33.5/34

In: -1.688+/-5.032 $\chi^2$/NDF:27.4/36

Out: -0.591+/-4.848 $\chi^2$/NDF:48.3/41

All: -1.119+/-3.491 $\chi^2$/NDF: 75.7/78

# diff_bpmE_11X12X_rms vs Slug, Sign Corrected




Right In: 23053.910+/-6.137 $\chi^2$/NDF: 261444.9/15

Left Out: 24548.985+/-4.172 $\chi^2$/NDF:1569351.0/22

Right Out: 23155.251+/-6.015 $\chi^2$/NDF: 93894.1/18

Left In: 25030.770+/-4.368 $\chi^2$/NDF:1441531.5/20

Left: 24778.829+/-3.017 $\chi^2$/NDF: 3017245.7/43

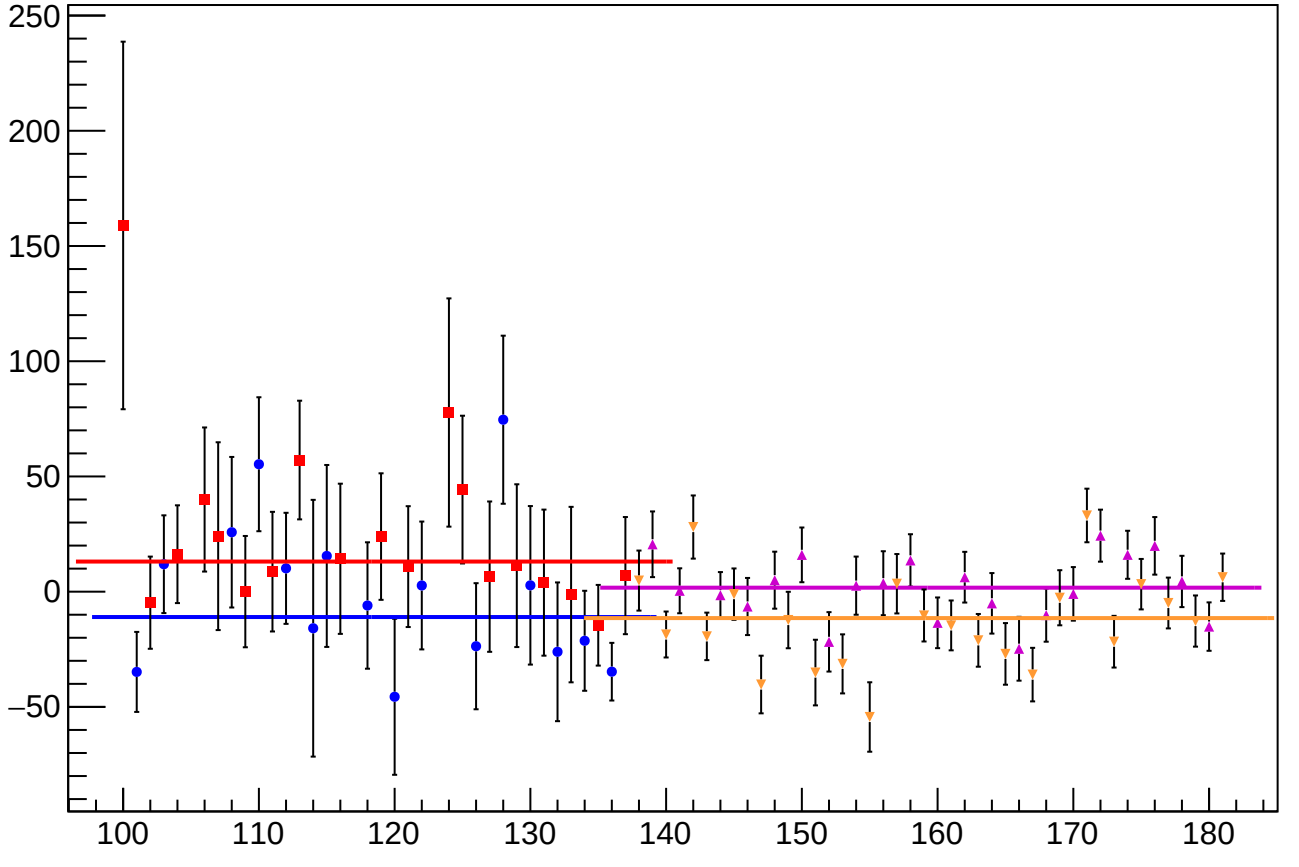
Right: 23105.598+/-4.295 $\chi^2$/NDF: 355478.0/34

In: 24366.091+/-3.558 $\chi^2$/NDF:1771860.2/36

Out: 24096.290+/-3.428 $\chi^2$/NDF:1699501.2/41

All: 24226.152+/-2.469 $\chi^2$/NDF: 3474343.3/7

# diff_bpm4aesumX_mean vs Slug, Sign Corrected




Right In: -11.002+/-6.155 $\chi^2$/NDF: 22.0/15

Left Out: -11.461+/-2.449 $\chi^2$/NDF:59.6/22

Right Out: 13.071+/-6.382 $\chi^2$/NDF: 13.9/18

Left In: 1.733+/-2.550 $\chi^2$/NDF:26.0/20

Left: -5.131+/-1.766 $\chi^2$/NDF: 99.5/43

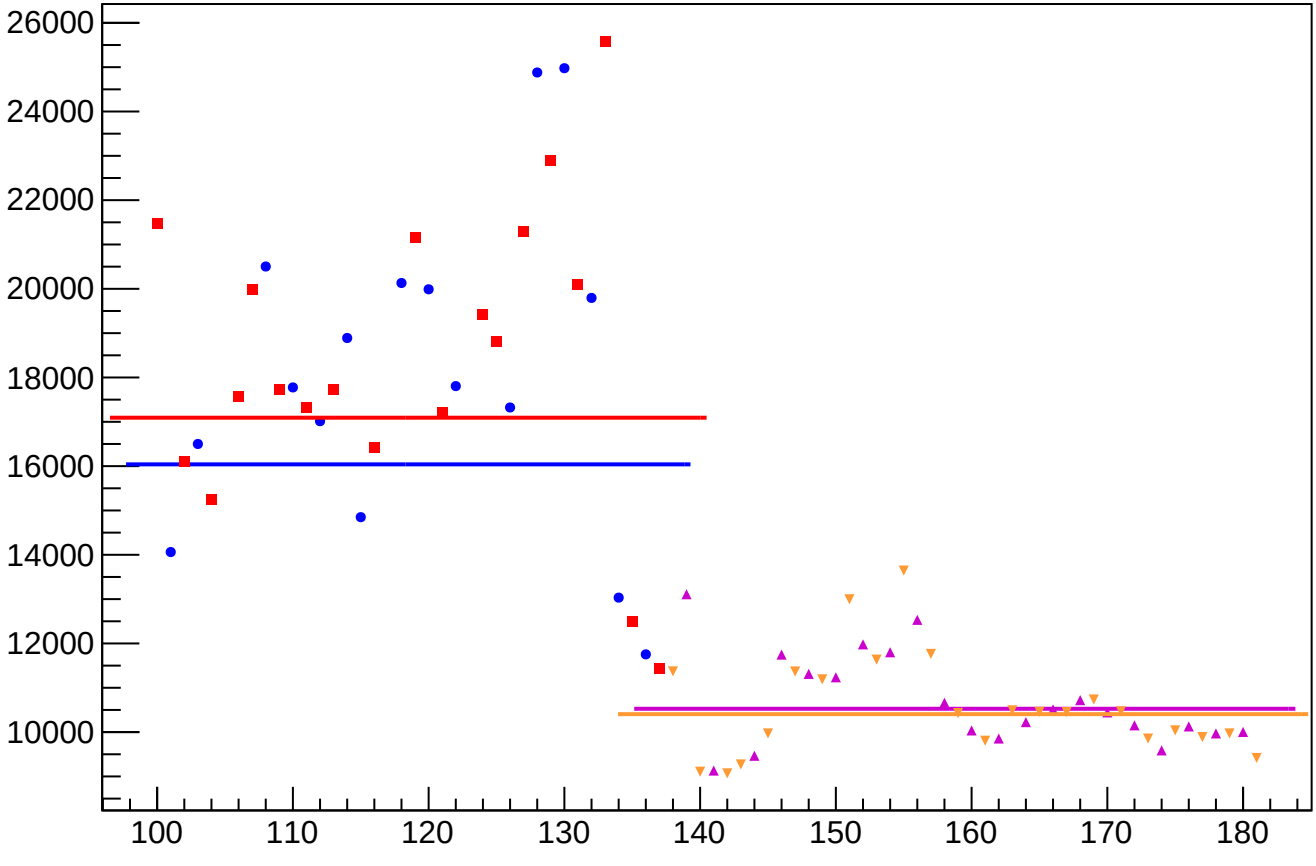
Right: 0.599+/-4.430 $\chi^2$/NDF: 43.3/34

In: -0.132+/-2.356 $\chi^2$/NDF:51.7/36

Out: -8.313+/-2.286 $\chi^2$/NDF:86.3/41

All: -4.345+/-1.641 $\chi^2$/NDF: 144.2/78

# diff_bpm4aesumX_rms vs Slug, Sign Corrected




Right In: 16040.060+/-4.352 $\chi^2$/NDF: 722678.9/15

Left Out: 10404.997+/-1.731 $\chi^2$/NDF:351517.8/22

Right Out: 17092.658+/-4.513 $\chi^2$/NDF: 535464.0/18

Left In: 10526.454+/-1.803 $\chi^2$/NDF:295044.8/20

Left: 10463.268+/-1.249 $\chi^2$/NDF: 648923.3/43

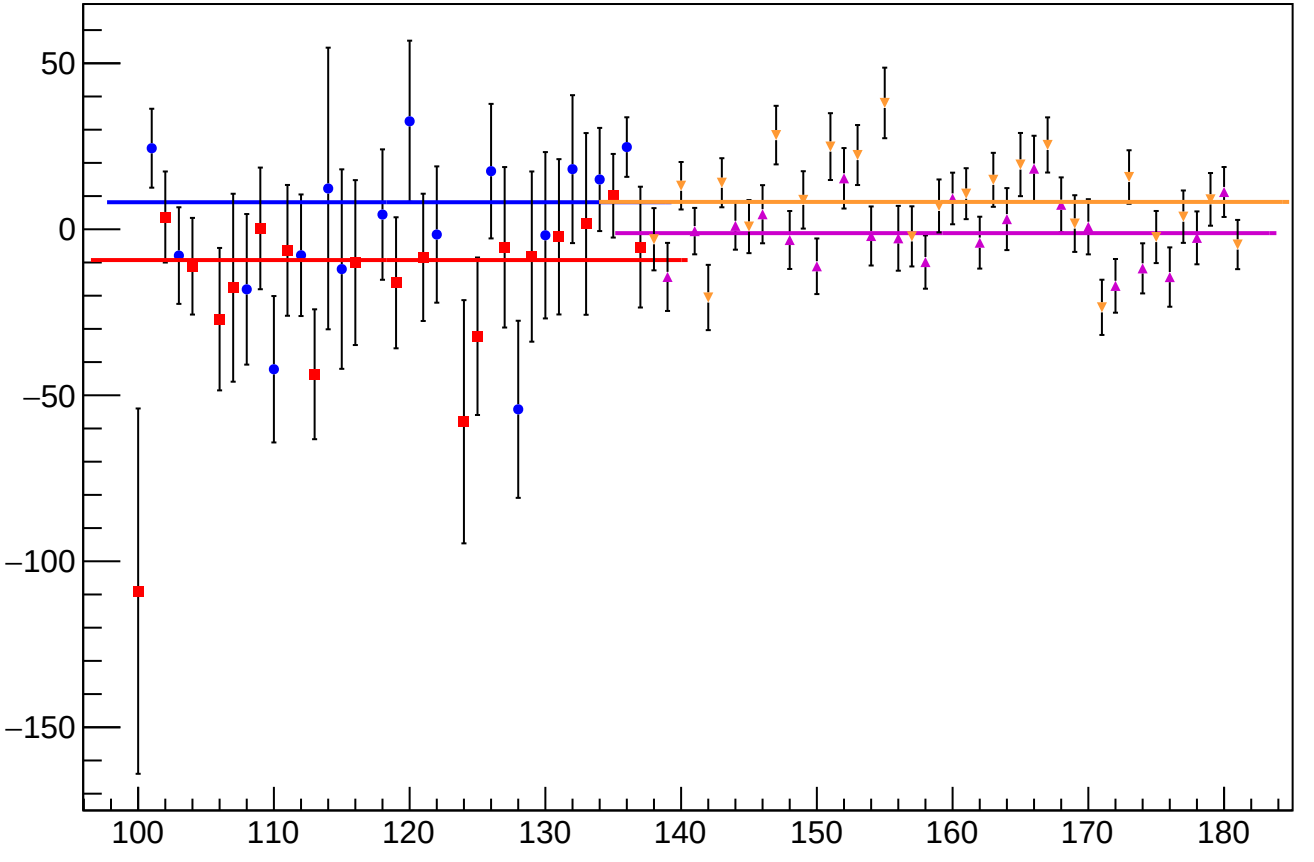
Right: 16547.306+/-3.133 $\chi^2$/NDF: 1286331.2/34

In: 11334.125+/-1.666 $\chi^2$/NDF:2387559.7/36

Out: 11263.204+/-1.617 $\chi^2$/NDF:2801378.2/41

All: 11297.602+/-1.160 $\chi^2$/NDF: 5189871.4/7

# diff_bpm4aediffX_mean vs Slug, Sign Corrected




Right In: 8.150+/-4.423 $\chi^2$/NDF: 21.8/15

Left Out: 8.244+/-1.746 $\chi^2$/NDF:59.2/22

Right Out: -9.270+/-4.607 $\chi^2$/NDF: 13.9/18

Left In: -1.160+/-1.817 $\chi^2$/NDF:26.0/20

Left: 3.728+/-1.259 $\chi^2$/NDF: 99.1/43

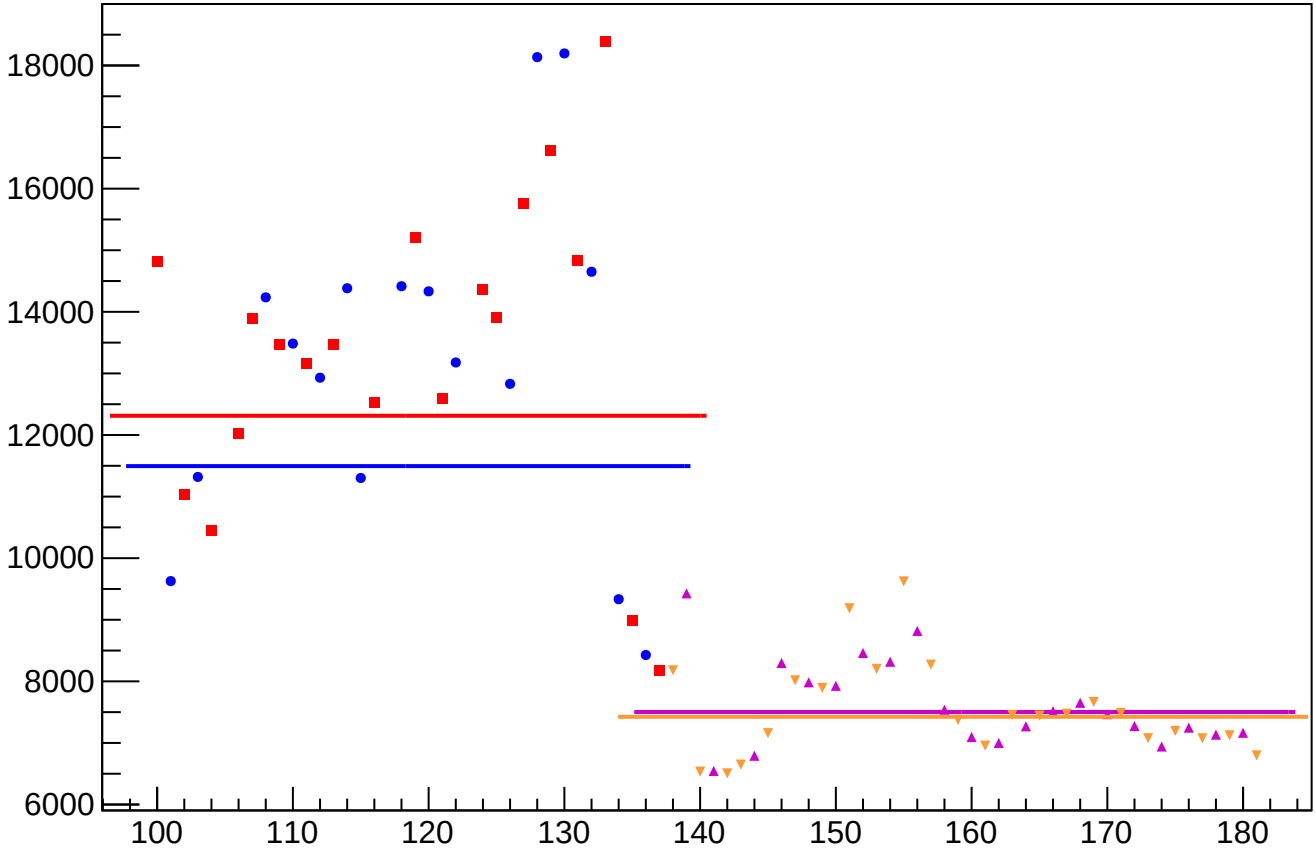
Right: -0.204+/-3.191 $\chi^2$/NDF: 43.1/34

In: 0.184+/-1.680 $\chi^2$/NDF:51.6/36

Out: 6.044+/-1.633 $\chi^2$/NDF:85.7/41

All: 3.198+/-1.171 $\chi^2$/NDF: 143.5/78

# diff_bpm4aediffX_rms vs Slug, Sign Corrected




Right In: 11494.969+/-3.127 $\chi^2$/NDF: 789990.1/15

Left Out: 7424.206+/-1.235 $\chi^2$/NDF:315774.1/22

Right Out: 12312.550+/-3.258 $\chi^2$/NDF: 598755.3/18

Left In: 7502.357+/-1.285 $\chi^2$/NDF:269026.2/20

Left: 7461.738+/-0.890 $\chi^2$/NDF: 586724.0/43

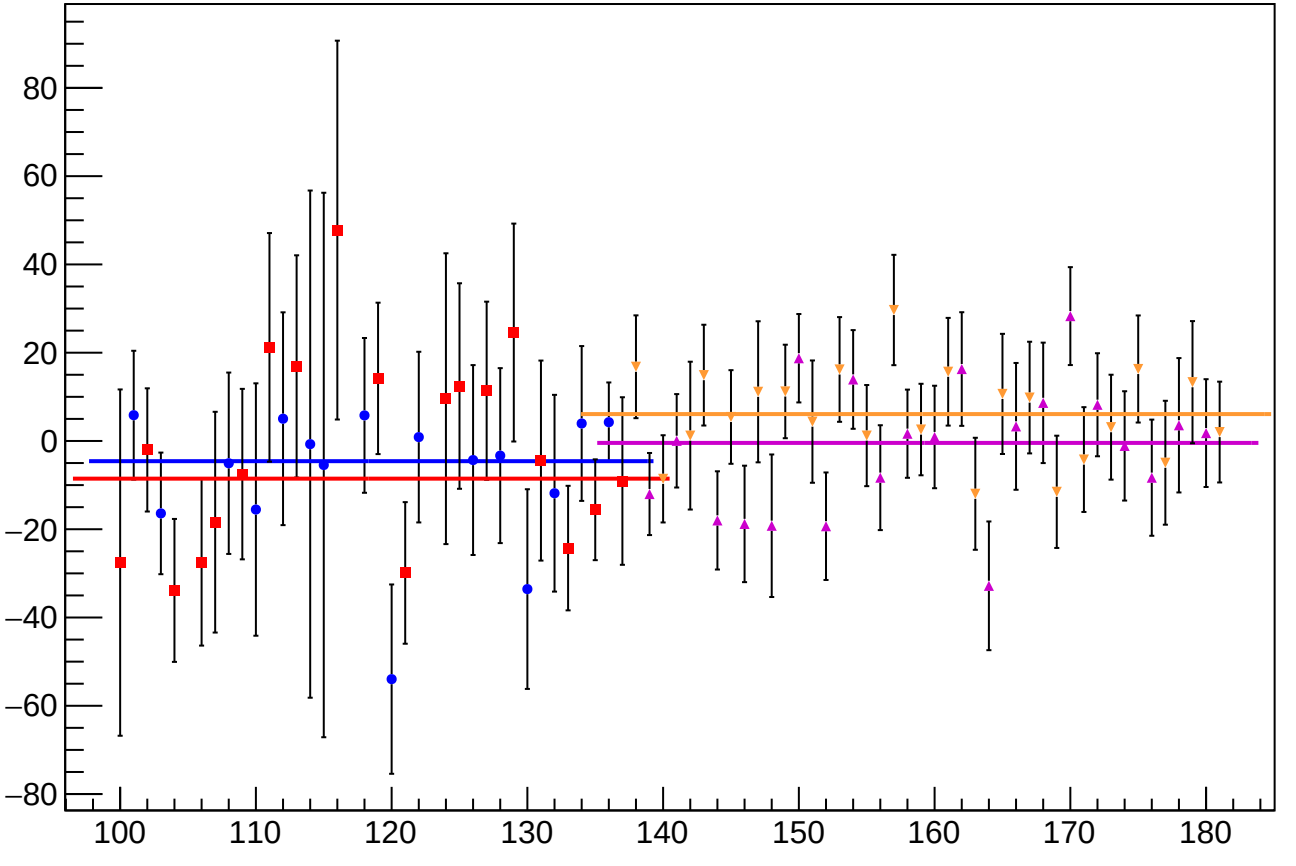
Right: 11887.075+/-2.256 $\chi^2$/NDF: 1421522.1/34

In: 8078.709+/-1.188 $\chi^2$/NDF:2453578.0/36

Out: 8038.265+/-1.155 $\chi^2$/NDF:2883250.7/41

All: 8057.907+/-0.828 $\chi^2$/NDF: 5337424.5/78

# diff_bpm4aesumY_mean vs Slug, Sign Corrected




Right In: -4.578+/-4.554 $\chi^2$/NDF: 10.2/15

Left Out: 6.092+/-2.533 $\chi^2$/NDF:16.0/22

Right Out: -8.537+/-4.392 $\chi^2$/NDF: 17.2/18

Left In: -0.439+/-2.607 $\chi^2$/NDF:30.4/20

Left: 2.921+/-1.817 $\chi^2$/NDF: 49.6/43

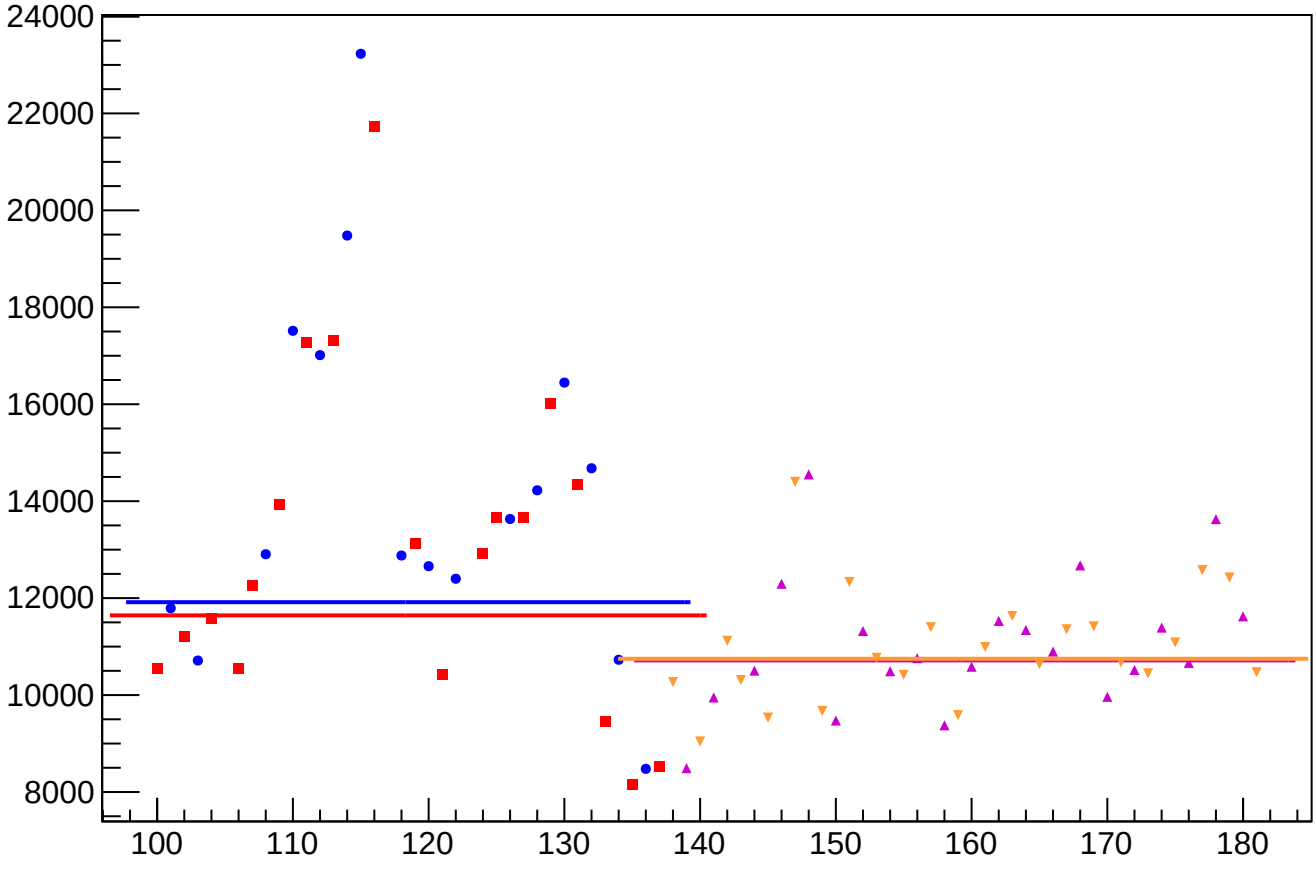
Right: -6.629+/-3.161 $\chi^2$/NDF: 27.8/34

In: -1.461+/-2.263 $\chi^2$/NDF:41.3/36

Out: 2.441+/-2.194 $\chi^2$/NDF:41.5/41

All: 0.550+/-1.575 $\chi^2$/NDF: 84.3/78

# diff_bpm4aesumY_rms vs Slug, Sign Corrected




Right In: 11916.355+/-3.220 $\chi^2$/NDF: 749775.2/15

Left Out: 10748.913+/-1.791 $\chi^2$/NDF:364680.1/22

Right Out: 11643.622+/-3.106 $\chi^2$/NDF: 790359.6/18

Left In: 10715.295+/-1.844 $\chi^2$/NDF:493086.4/20

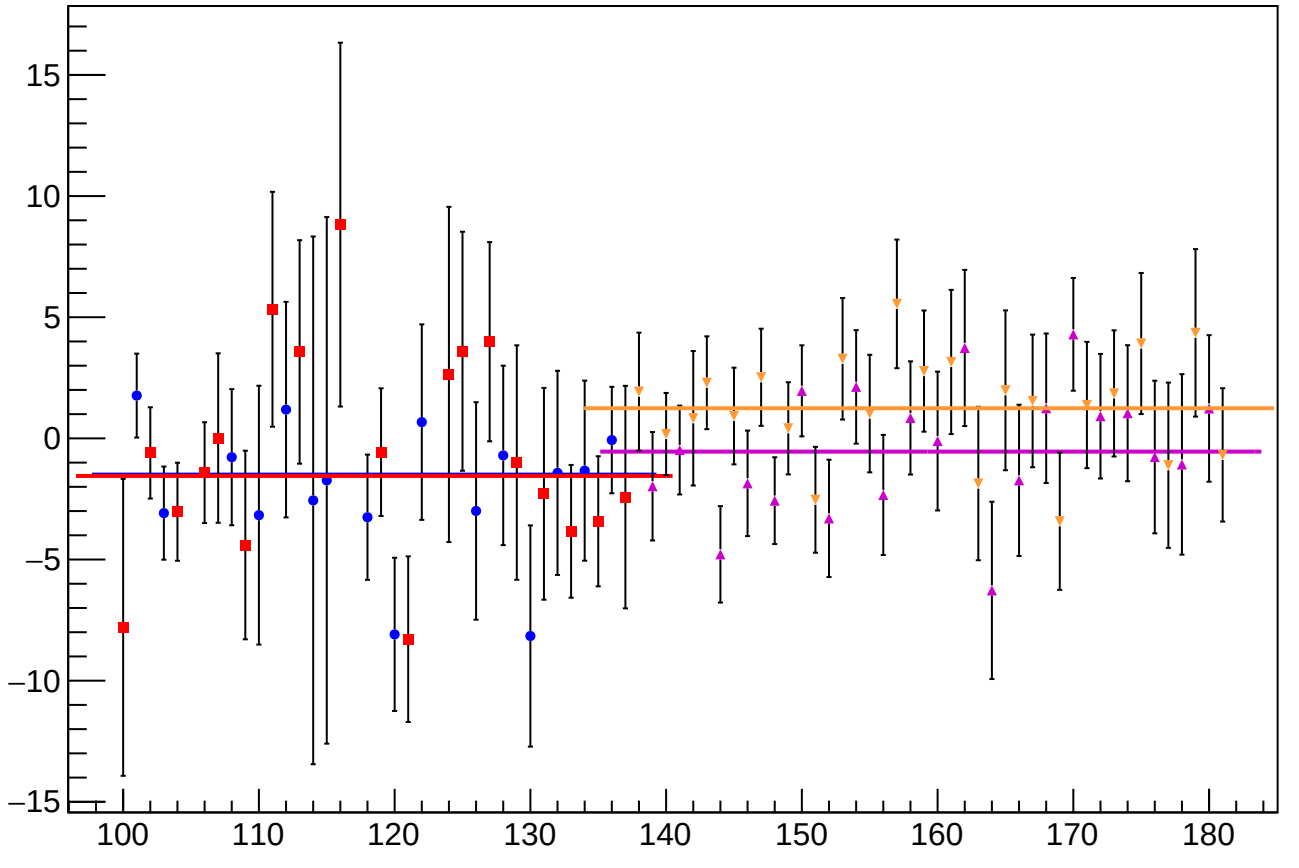
Left: 10732.592+/-1.285 $\chi^2$/NDF: 857937.6/43

Right: 11775.058+/-2.235 $\chi^2$/NDF: 1543851.0/34

In: 11011.798+/-1.600 $\chi^2$/NDF:1347631.0/36

Out: 10972.172+/-1.551 $\chi^2$/NDF:1217319.0/41

All: 10991.375+/-1.114 $\chi^2$/NDF: 2565266.2/7




Right In: -1.496+/-0.778 $\chi^2$/NDF: 12.6/15

Left Out: 1.244+/-0.512 $\chi^2$/NDF:14.9/22

Right Out: -1.551+/-0.745 $\chi^2$/NDF: 16.3/18

Left In: -0.546+/-0.534 $\chi^2$/NDF:21.9/20

Left: 0.387+/-0.370 $\chi^2$/NDF: 42.7/43

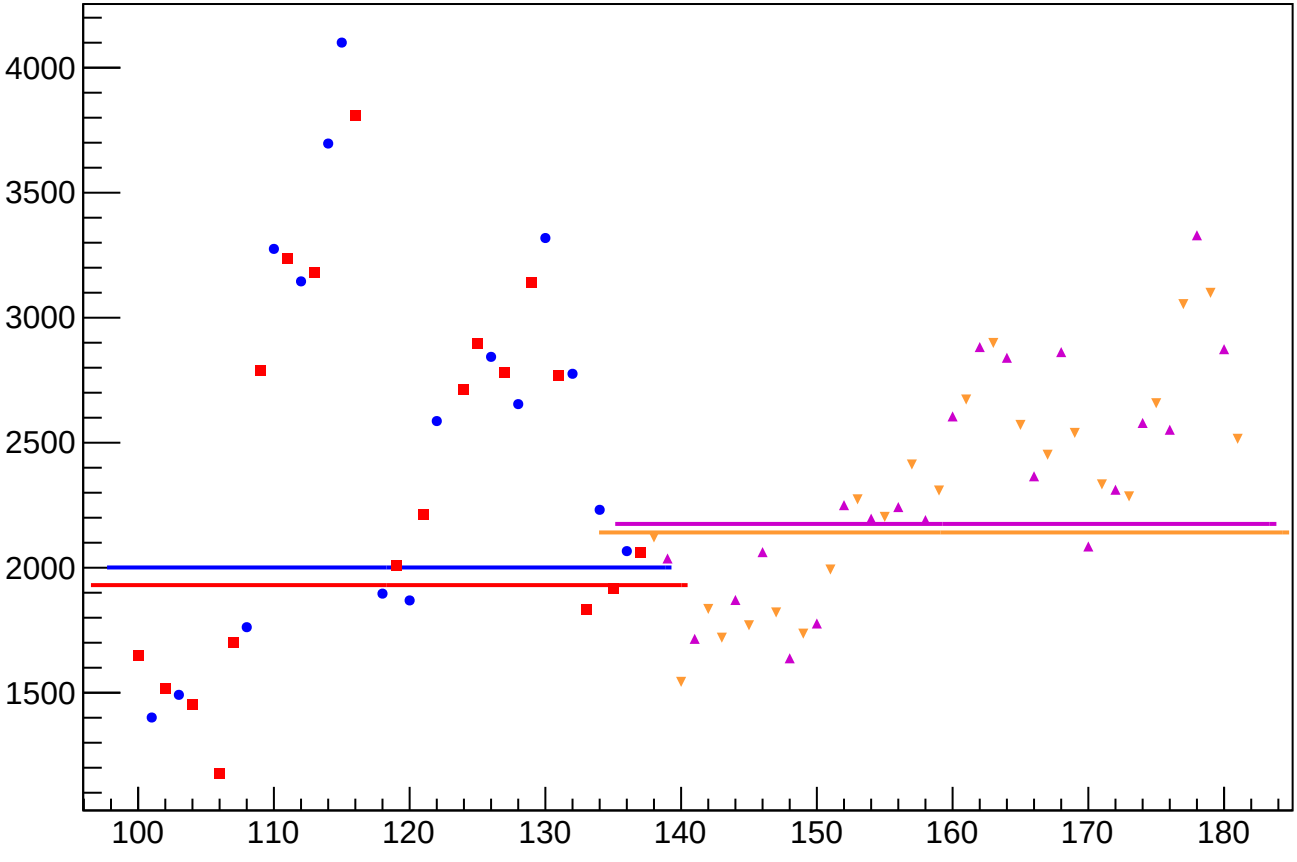
Right: -1.525+/-0.538 $\chi^2$/NDF: 28.9/34

In: -0.851+/-0.441 $\chi^2$/NDF:35.5/36

Out: 0.346+/-0.422 $\chi^2$/NDF:40.8/41

All: -0.226+/-0.305 $\chi^2$/NDF: 80.1/78

# diff_bpm4aediffY_rms vs Slug, Sign Corrected




Right In: 2001.000+/-0.550 $\chi^2$/NDF: 1189784.2/15

Left Out: 2141.084+/-0.362 $\chi^2$/NDF:1318369.4/22

Right Out: 1930.434+/-0.526 $\chi^2$/NDF: 1403552.6/18

Left In: 2175.195+/-0.378 $\chi^2$/NDF:1150944.6/20

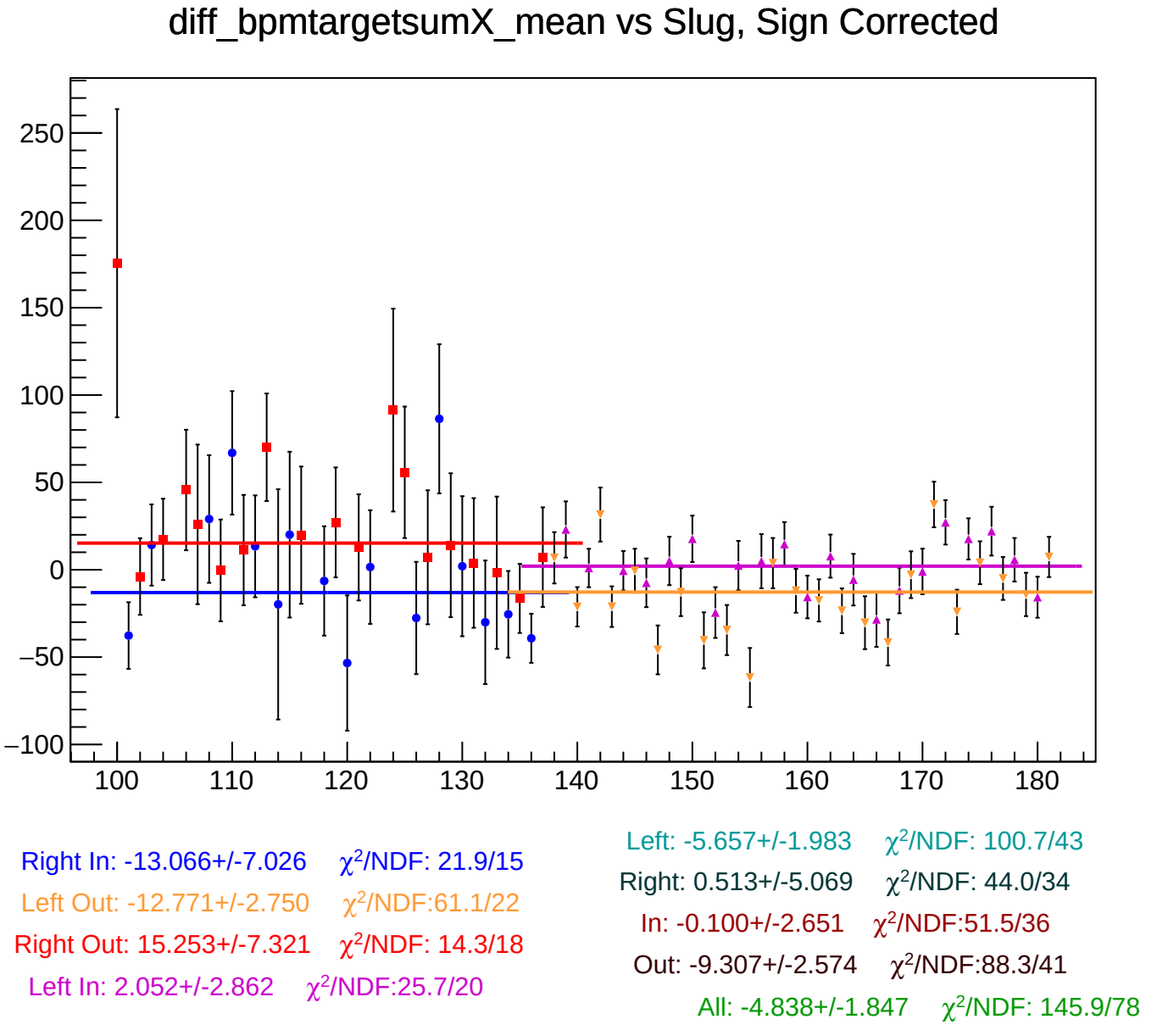
Left: 2157.410+/-0.261 $\chi^2$/NDF: 2473561.2/43

Right: 1964.155+/-0.380 $\chi^2$/NDF: 2601922.6/34

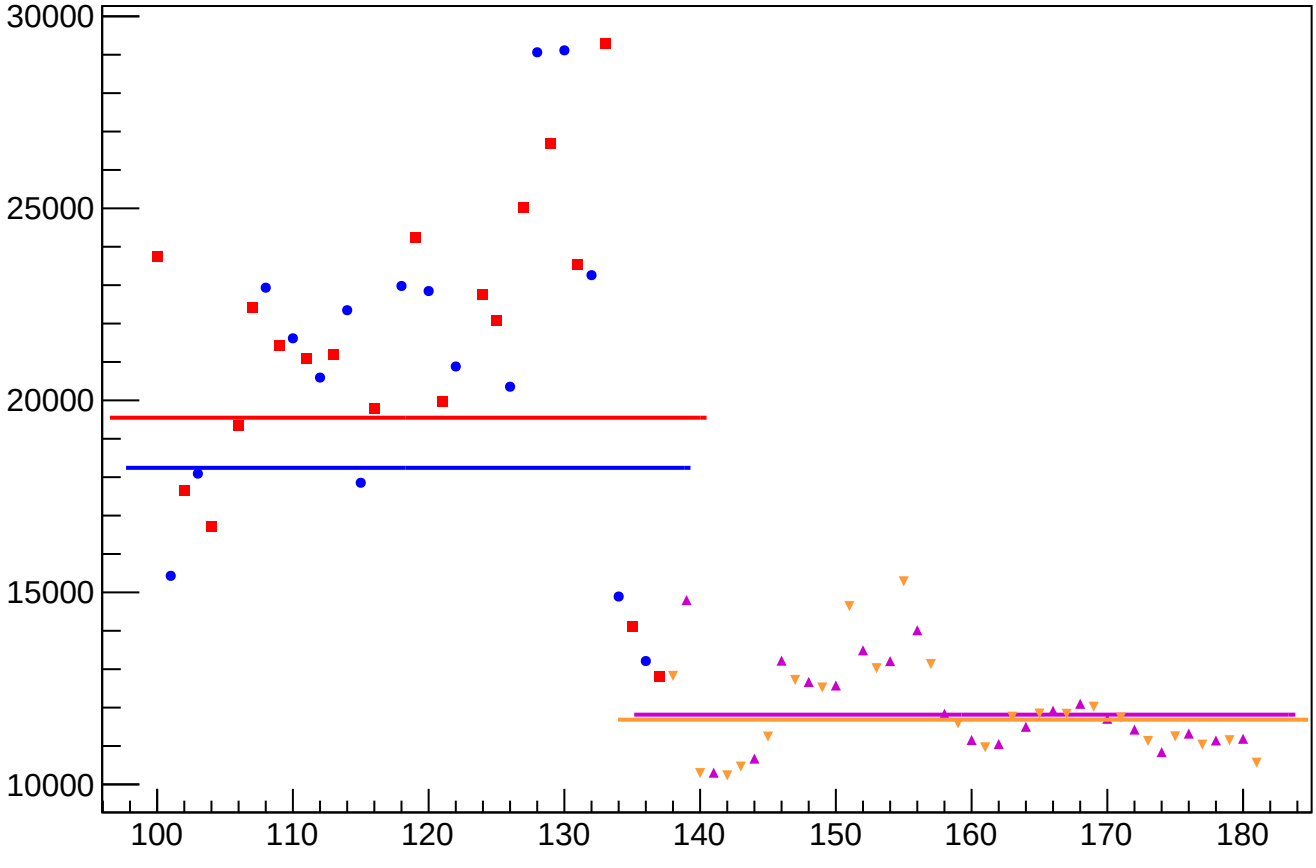
In: 2119.365+/-0.312 $\chi^2$/NDF:2408813.9/36

Out: 2073.434+/-0.298 $\chi^2$/NDF:2830607.7/41

All: 2095.406+/-0.215 $\chi^2$/NDF: 5250759.5/78


diff_bpmtargetsumX_mean vs Slug, Sign Corrected
250
200
150
100
50
0
−50
−100
100
110
120
130
140
150
160
170
180
Right In: -13.066+/-7.026 χ²/NDF: 21.9/15
Left Out: -12.771+/-2.750 χ²/NDF:61.1/22
Right Out: 15.253+/-7.321 χ²/NDF: 14.3/18
Left In: 2.052+/-2.862 χ²/NDF:25.7/20
Left: -5.657+/-1.983 χ²/NDF: 100.7/43
Right: 0.513+/-5.069 χ²/NDF: 44.0/34
In: -0.100+/-2.651 χ²/NDF:51.5/36
Out: -9.307+/-2.574 χ²/NDF:88.3/41
All: -4.838+/-1.847 χ²/NDF: 145.9/78

# diff_bpmtargetsumX_rms vs Slug, Sign Corrected




Right In: 18243.342+/-4.968 $\chi^2$/NDF: 819828.6/15

Left Out: 11685.268+/-1.944 $\chi^2$/NDF:343301.6/22

Right Out: 19548.426+/-5.176 $\chi^2$/NDF: 621716.4/18

Left In: 11816.351+/-2.024 $\chi^2$/NDF:292824.2/20

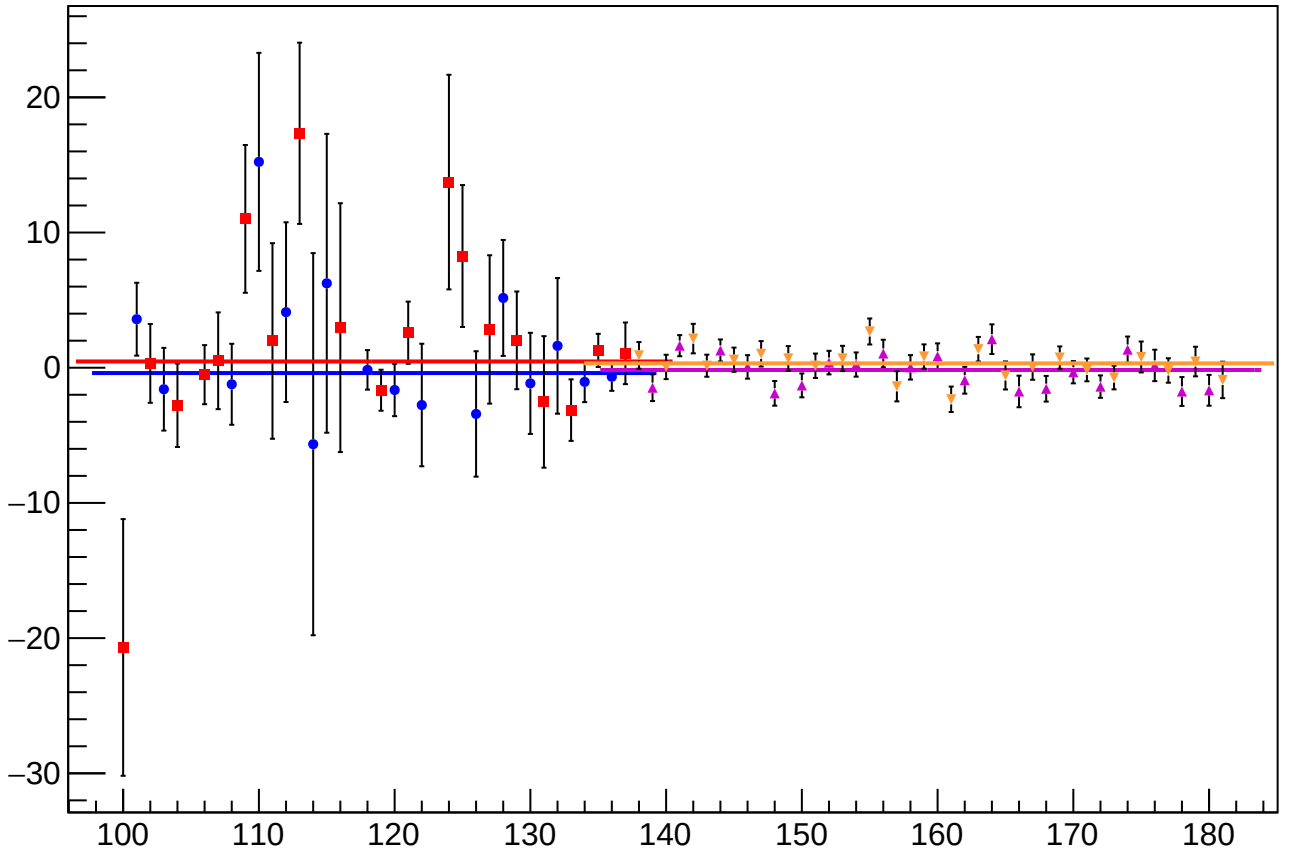
Left: 11748.179+/-1.402 $\chi^2$/NDF: 638307.3/43

Right: 18869.124+/-3.585 $\chi^2$/NDF: 1474629.7/34

In: 12731.066+/-1.874 $\chi^2$/NDF:2547828.0/36

Out: 12657.394+/-1.820 $\chi^2$/NDF:2987146.6/41

All: 12693.149+/-1.306 $\chi^2$/NDF: 5535769.7/7




Right In: -0.394+/-0.600 $\chi^2$/NDF: 10.4/15

Left Out: 0.324+/-0.197 $\chi^2$/NDF:26.5/22

Right Out: 0.464+/-0.634 $\chi^2$/NDF: 28.0/18

Left In: -0.167+/-0.204 $\chi^2$/NDF:36.3/20

Left: 0.087+/-0.142 $\chi^2$/NDF: 65.8/43

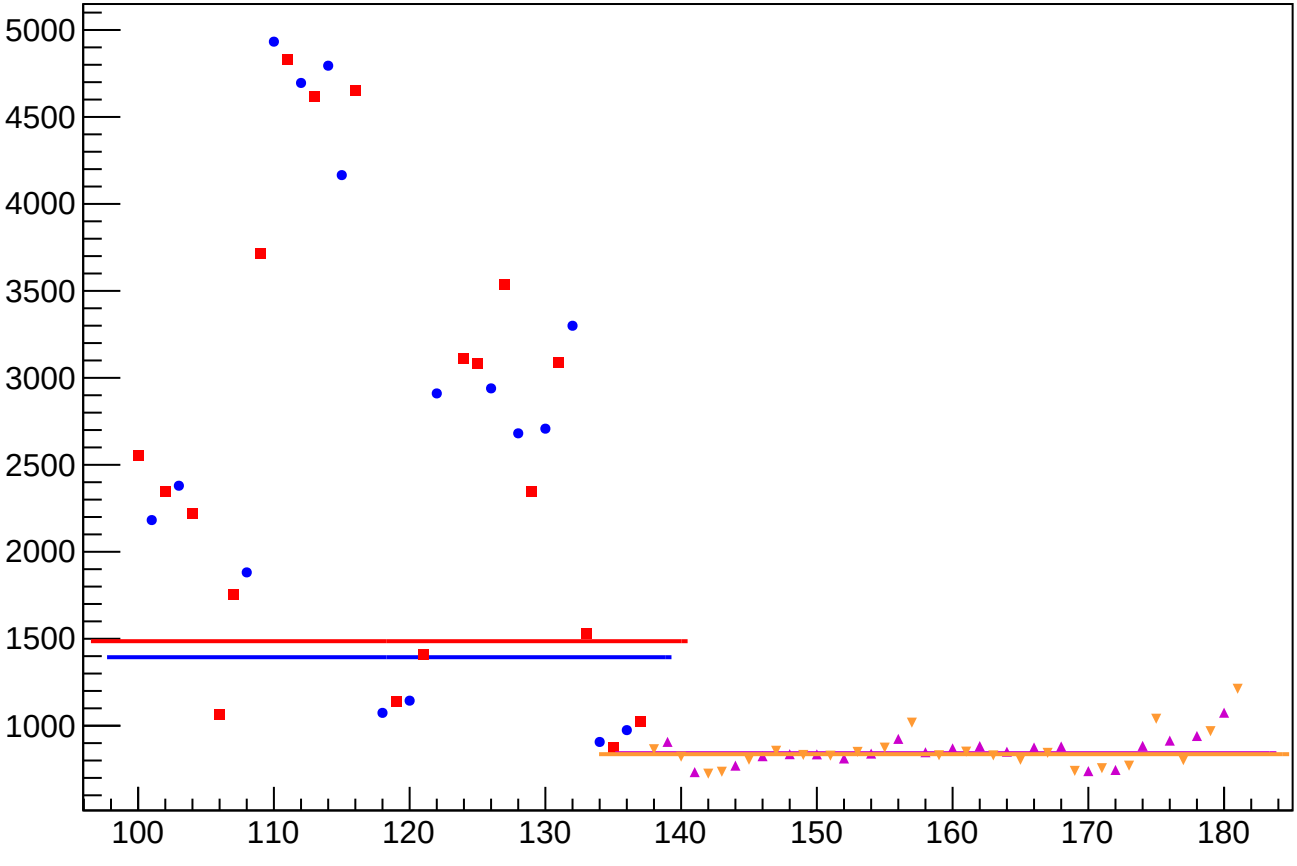
Right: 0.011+/-0.436 $\chi^2$/NDF: 39.4/34

In: -0.190+/-0.194 $\chi^2$/NDF:46.9/36

Out: 0.336+/-0.189 $\chi^2$/NDF:54.6/41

All: 0.080+/-0.135 $\chi^2$/NDF: 105.3/78

# diff_bpmtargetdiffX_rms vs Slug, Sign Corrected




Right In: 1393.912+/-0.424 $\chi^2$/NDF: 3381007.0/15

Left Out: 836.415+/-0.140 $\chi^2$/NDF:424381.4/22

Right Out: 1486.000+/-0.448 $\chi^2$/NDF: 3398817.4/18

Left In: 842.303+/-0.145 $\chi^2$/NDF:260125.9/20

Left: 839.256+/-0.100 $\chi^2$/NDF: 685365.5/43

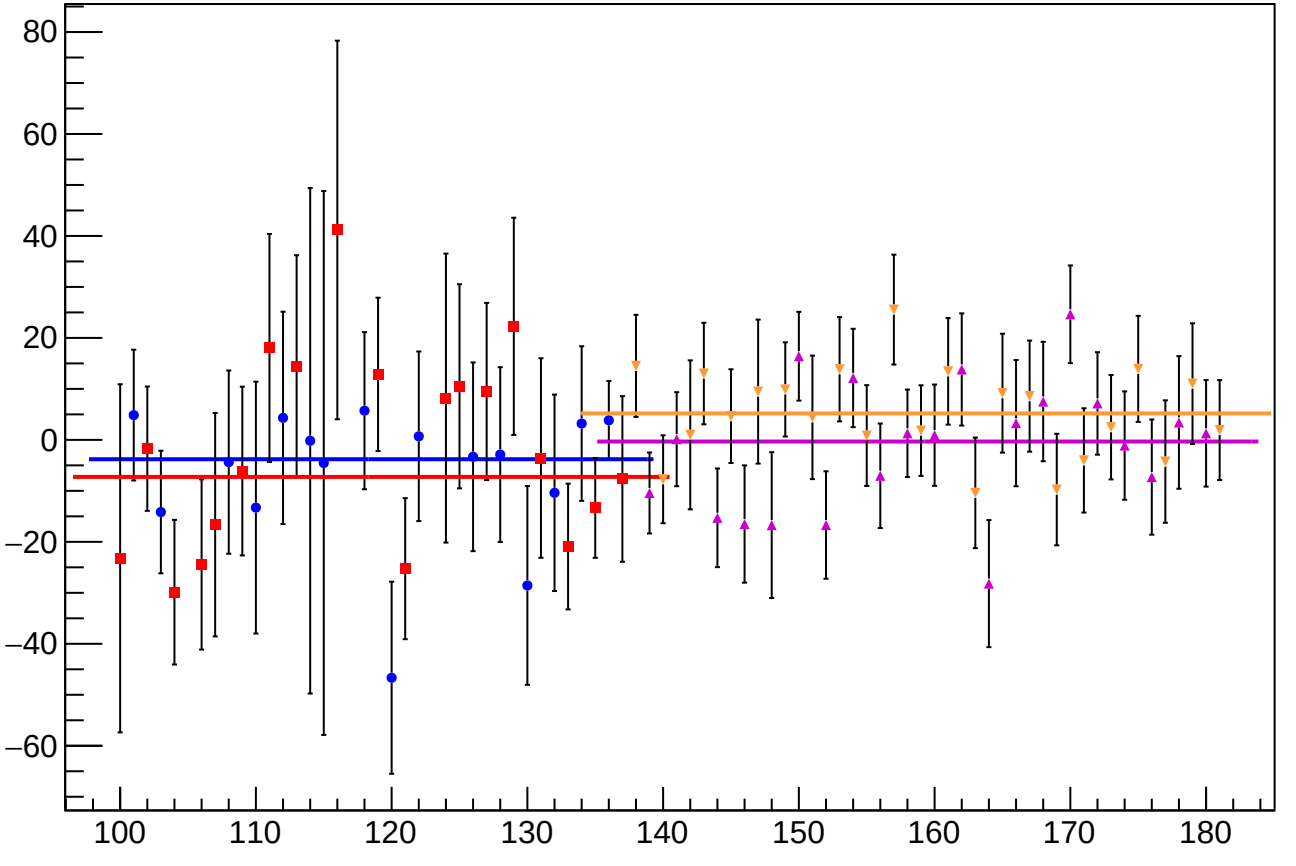
Right: 1437.438+/-0.308 $\chi^2$/NDF: 6802082.3/34

In: 899.686+/-0.137 $\chi^2$/NDF:5155013.1/36

Out: 893.859+/-0.133 $\chi^2$/NDF:5737641.5/41

All: 896.696+/-0.095 $\chi^2$/NDF: 10893584.9/78

# diff_bpmtargetsumY_mean vs Slug, Sign Corrected




Right In: -3.795+/-3.943 $\chi^2$/NDF: 10.1/15

Left Out: 5.189+/-2.186 $\chi^2$/NDF:16.1/22

Right Out: -7.264+/-3.807 $\chi^2$/NDF: 17.3/18

Left In: -0.325+/-2.247 $\chi^2$/NDF:30.6/20

Left: 2.509+/-1.567 $\chi^2$/NDF: 49.8/43

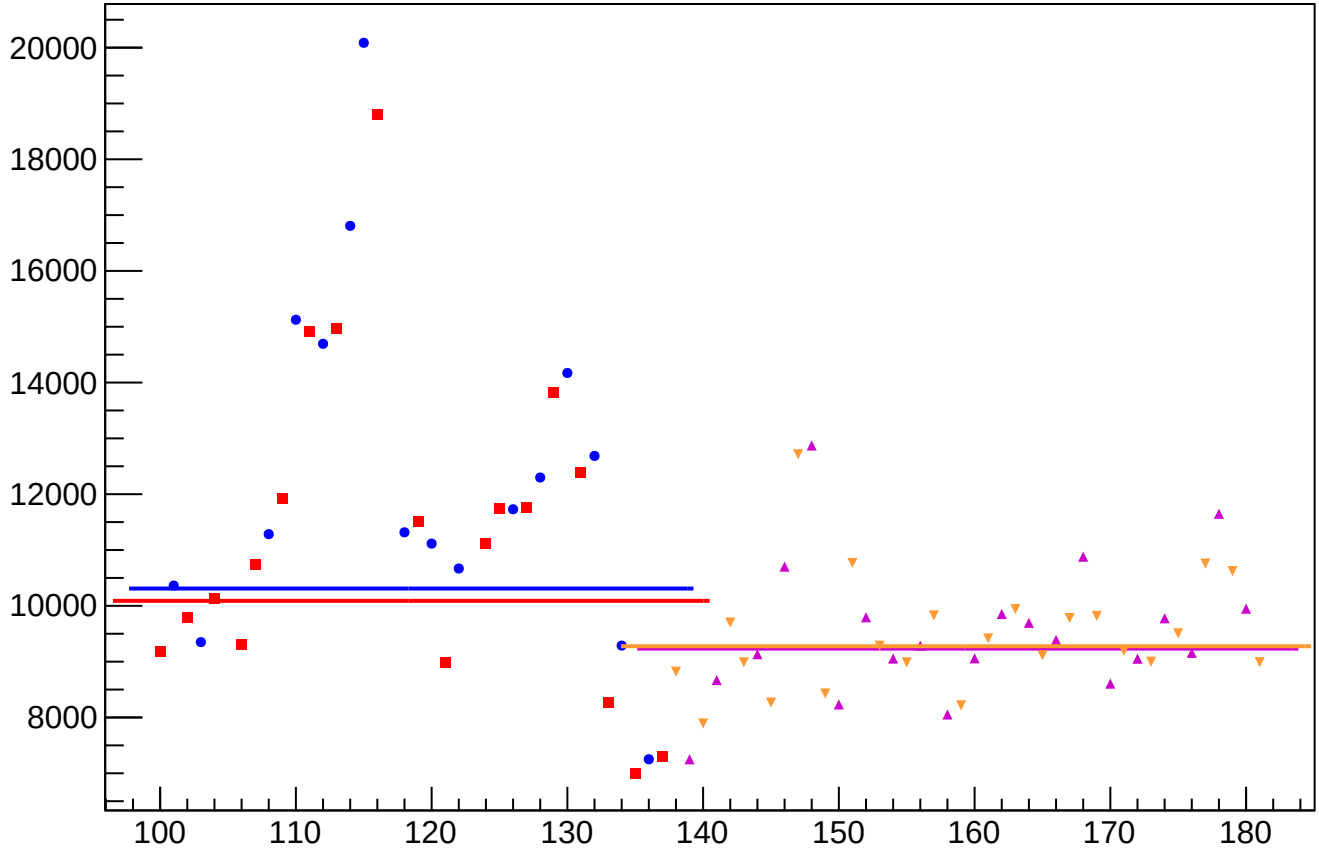
Right: -5.590+/-2.739 $\chi^2$/NDF: 27.7/34

In: -1.176+/-1.953 $\chi^2$/NDF:41.2/36

Out: 2.101+/-1.896 $\chi^2$/NDF:41.4/41

All: 0.511+/-1.360 $\chi^2$/NDF: 84.1/78

# diff_bpmtargetsumY_rms vs Slug, Sign Corrected




Right In: 10309.969+/-2.788 $\chi^2$/NDF: 770518.2/15

Left Out: 9276.611+/-1.546 $\chi^2$/NDF:362327.7/22

Right Out: 10089.584+/-2.692 $\chi^2$/NDF: 792788.1/18

Left In: 9233.532+/-1.589 $\chi^2$/NDF:507627.0/20

Left: 9255.670+/-1.108 $\chi^2$/NDF: 870332.4/43

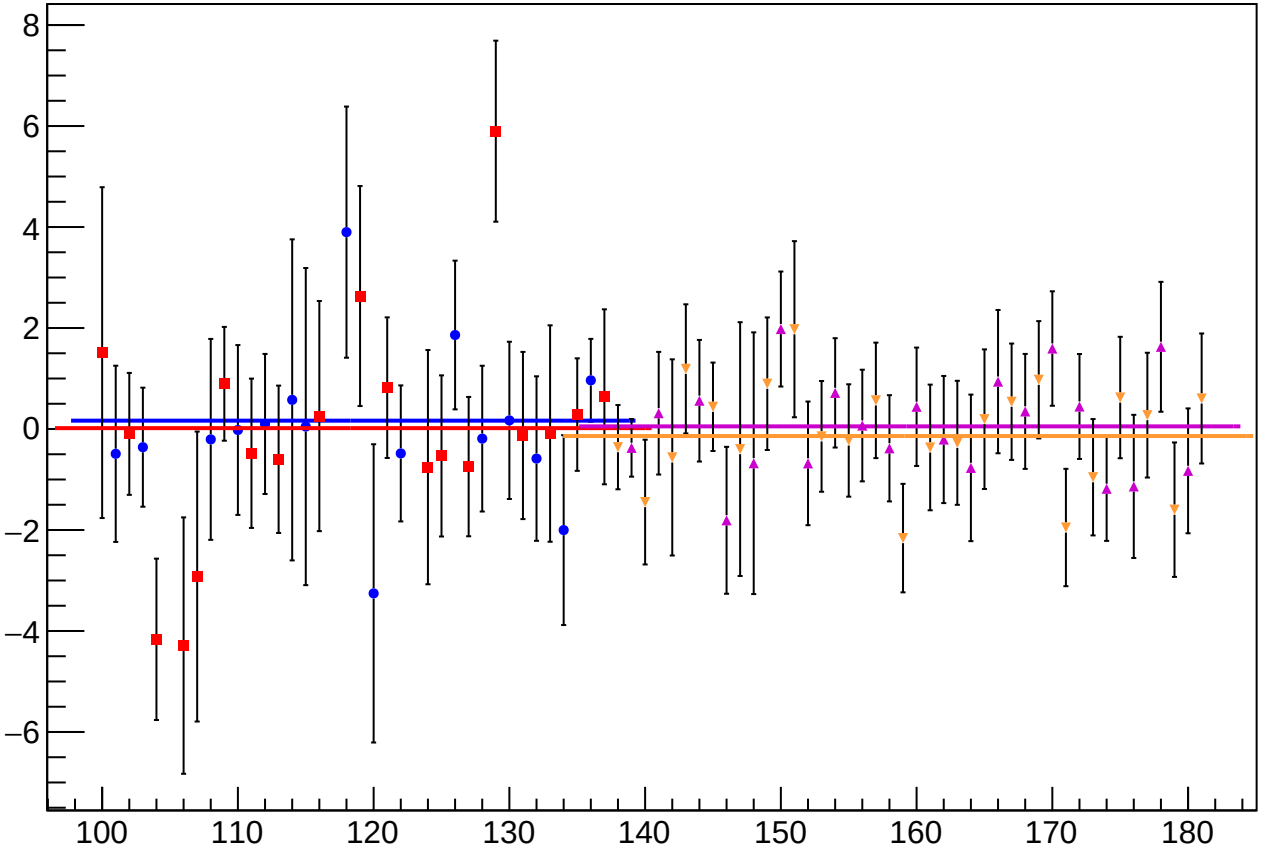
Right: 10195.906+/-1.937 $\chi^2$/NDF: 1566539.8/34

In: 9497.481+/-1.381 $\chi^2$/NDF:1390647.6/36

Out: 9478.178+/-1.340 $\chi^2$/NDF:1223709.2/41

All: 9487.544+/-0.962 $\chi^2$/NDF: 2614457.4/78

# diff_bpmtargetdiffY_mean vs Slug, Sign Corrected




Right In: 0.165+/-0.386 $\chi^2$/NDF: 8.1/15

Left Out: -0.139+/-0.250 $\chi^2$/NDF:15.1/22

Right Out: 0.017+/-0.372 $\chi^2$/NDF: 25.2/18

Left In: 0.052+/-0.246 $\chi^2$/NDF:13.3/20

Left: -0.042+/-0.175 $\chi^2$/NDF: 28.8/43

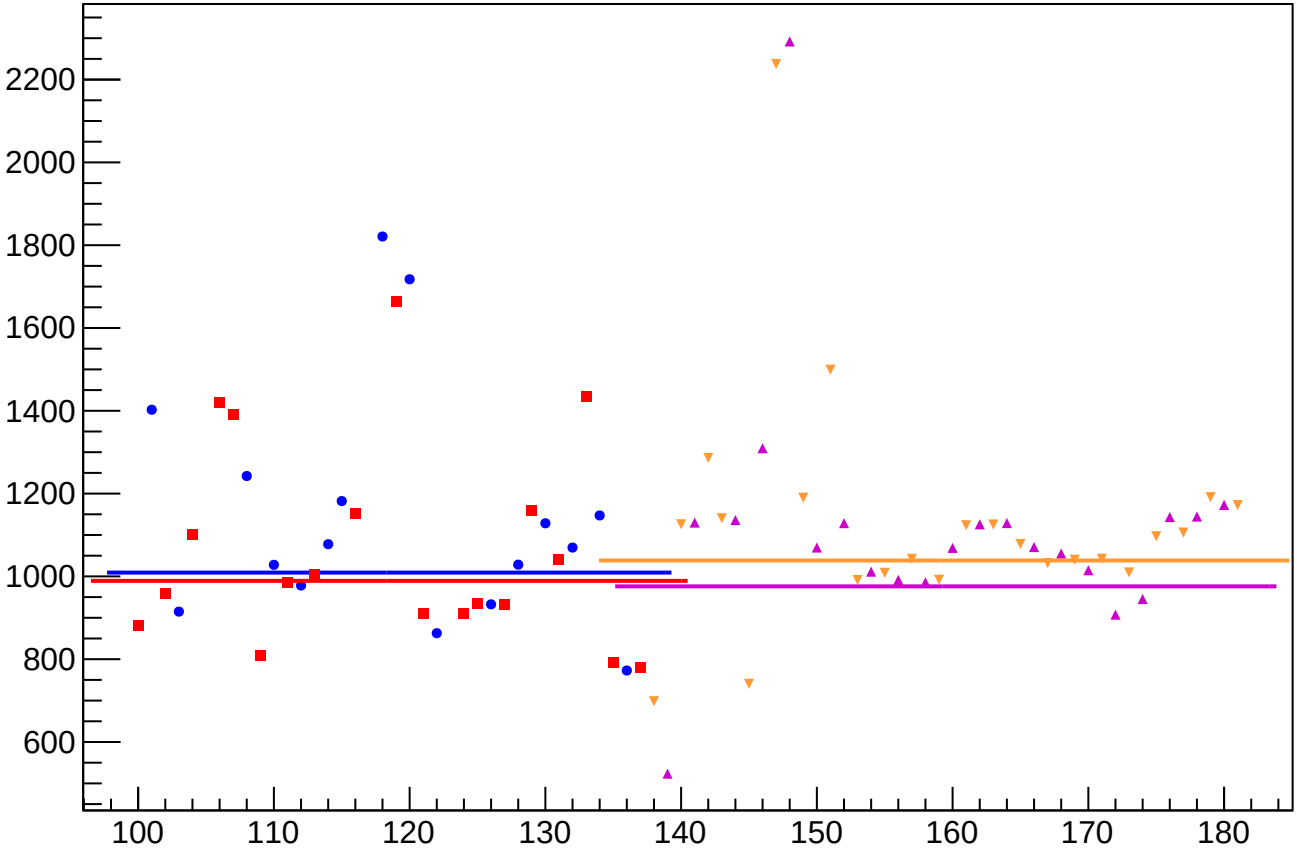
Right: 0.089+/-0.268 $\chi^2$/NDF: 33.4/34

In: 0.085+/-0.207 $\chi^2$/NDF:21.5/36

Out: -0.091+/-0.208 $\chi^2$/NDF:40.4/41

All: -0.003+/-0.147 $\chi^2$/NDF: 62.3/78

# diff_bpmtargetdiffY_rms vs Slug, Sign Corrected




Right In: 1009.222+/-0.273 $\chi^2$/NDF: 699303.9/15

Left Out: 1038.393+/-0.177 $\chi^2$/NDF:1330860.9/22

Right Out: 989.246+/-0.263 $\chi^2$/NDF: 575759.9/18

Left In: 975.908+/-0.174 $\chi^2$/NDF:2201946.3/20

Left: 1006.545+/-0.124 $\chi^2$/NDF: 3596281.9/43

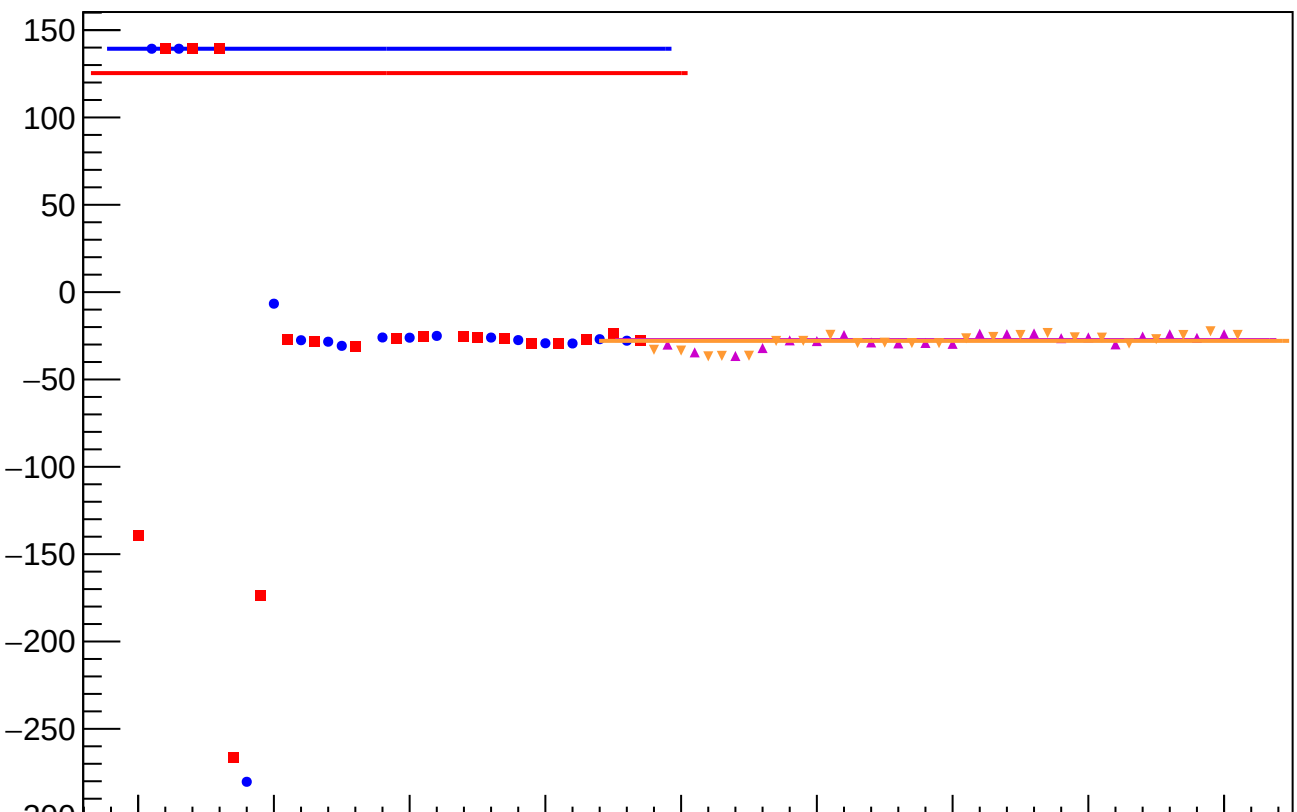
Right: 998.863+/-0.190 $\chi^2$/NDF: 1277836.8/34

In: 985.497+/-0.147 $\chi^2$/NDF:2911842.2/36

Out: 1023.081+/-0.147 $\chi^2$/NDF:1930624.2/41

All: 1004.243+/-0.104 $\chi^2$/NDF: 4875269.2/78

# yield_cav4bX_mean vs Slug, Sign Corrected




Right In: 139.337+/-0.000 $\chi^2$/NDF: 47088045550.1/15

Left Out: -27.893+/-0.000 $\chi^2$/NDF:181250820.0/22

Right Out: 125.392+/-0.000 $\chi^2$/NDF: 774173119844052.5/18

Left In: -27.456+/-0.000 $\chi^2$/NDF:122985328.5/20

Left: -27.683+/-0.000 $\chi^2$/NDF: 305109257.6/43

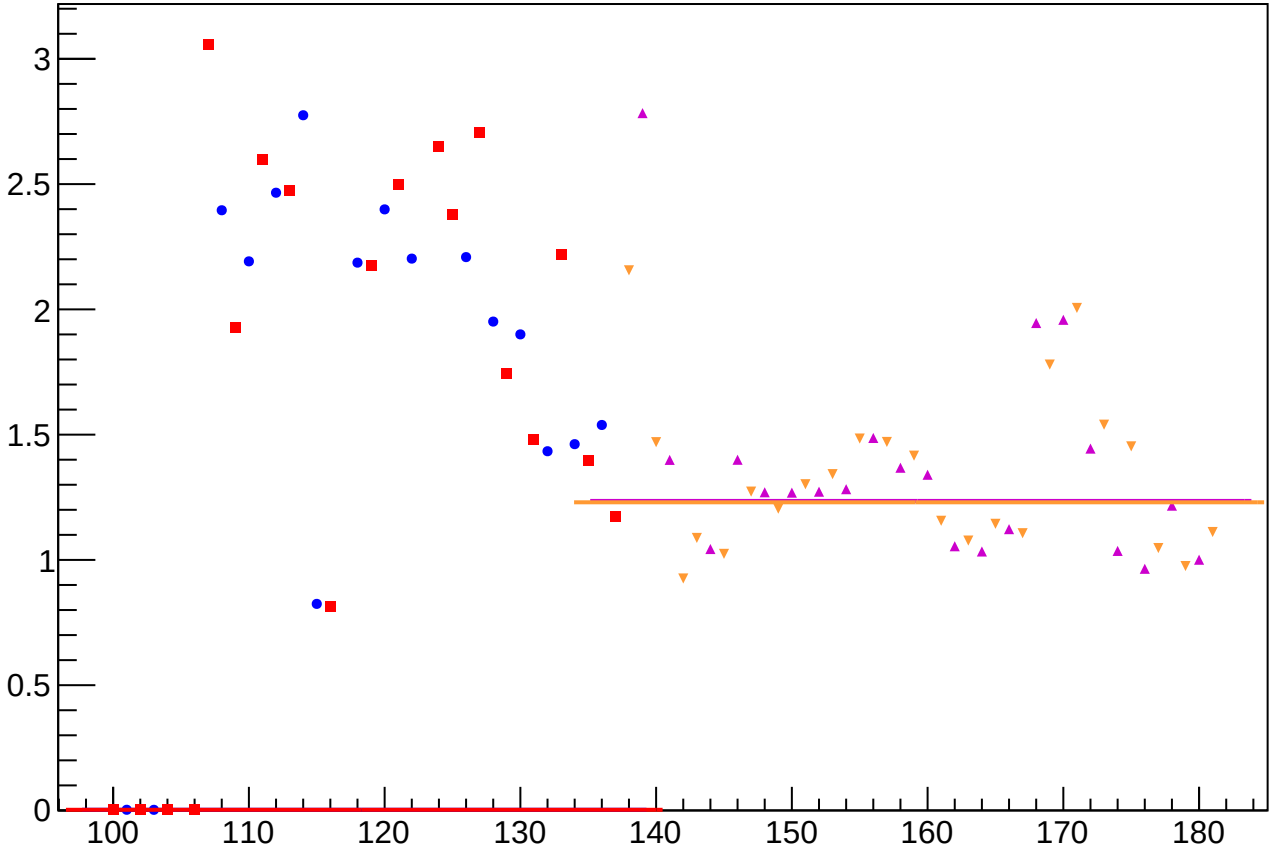
Right: 131.818+/-0.000 $\chi^2$/NDF: 793004999492497

In: 139.329+/-0.000 $\chi^2$/NDF:292298562162.6/36

Out: 125.385+/-0.000 $\chi^2$/NDF:774396001396061.

All: 131.811+/-0.000 $\chi^2$/NDF: 793470558572

# yield_cav4bX_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 9565657.6/15

Left Out: 1.230+/-0.000 $\chi^2$/NDF:1143029.2/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 9733783.1/18

Left In: 1.235+/-0.000 $\chi^2$/NDF:1363006.3/20

Left: 1.233+/-0.000 $\chi^2$/NDF: 2506309.3/43

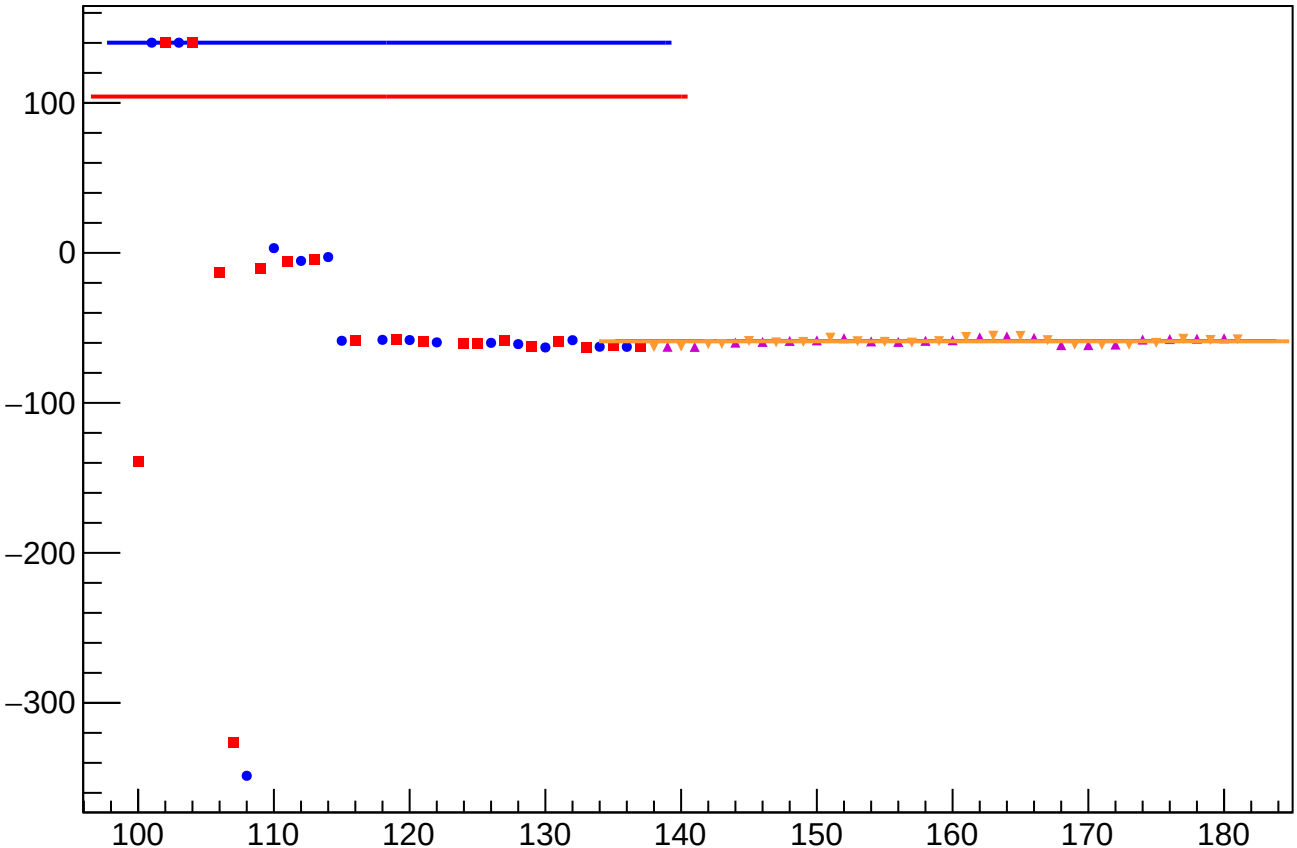
Right: 0.003+/-0.000 $\chi^2$/NDF: 19299624.2/34

In: 0.003+/-0.000 $\chi^2$/NDF:37705690.9/36

Out: 0.003+/-0.000 $\chi^2$/NDF:39431140.2/41

All: 0.003+/-0.000 $\chi^2$/NDF: 77137080.7/78

# yield_cav4bY_mean vs Slug, Sign Corrected




Right In: 140.143+/-0.000 $\chi^2$/NDF: 187461723281.9/15

Left Out: -58.944+/-0.000 $\chi^2$/NDF:164132496.1/22

Right Out: 104.224+/-0.000 $\chi^2$/NDF: 1257401882577977.0/18

Left In: -58.769+/-0.000 $\chi^2$/NDF:150508882.9/20

Left: -58.859+/-0.000 $\chi^2$/NDF: 315110038.0/43

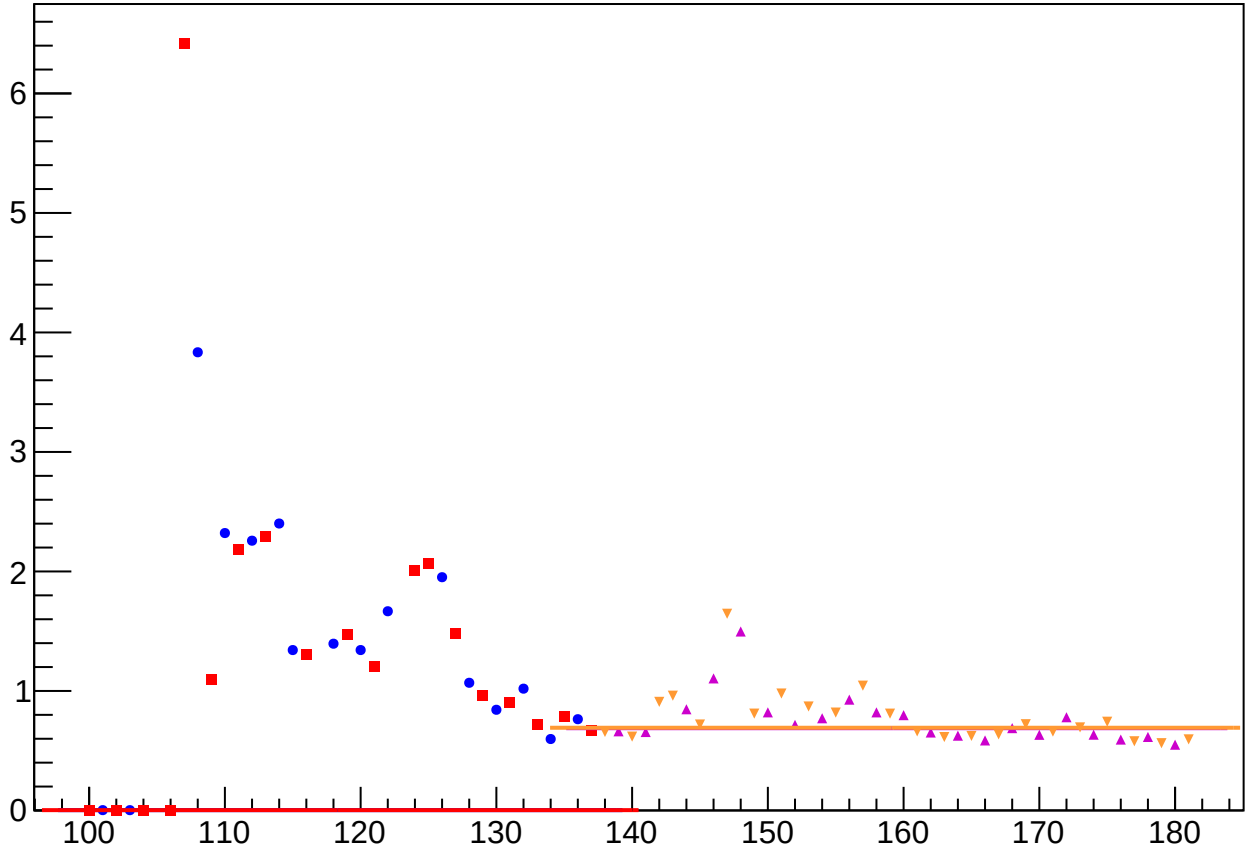
Right: 120.832+/-0.000 $\chi^2$/NDF: 138089570604348

In: 140.110+/-0.000 $\chi^2$/NDF:1375509241565.4/36

Out: 104.199+/-0.000 $\chi^2$/NDF:1258241405033873

All: 120.803+/-0.000 $\chi^2$/NDF: 13828833688

# yield_cav4bY_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 10578723.1/15

Left Out: 0.692+/-0.000 $\chi^2$/NDF:1269891.5/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 10266772.6/18

Left In: 0.688+/-0.000 $\chi^2$/NDF:1085969.5/20

Left: 0.690+/-0.000 $\chi^2$/NDF: 2356282.7/43

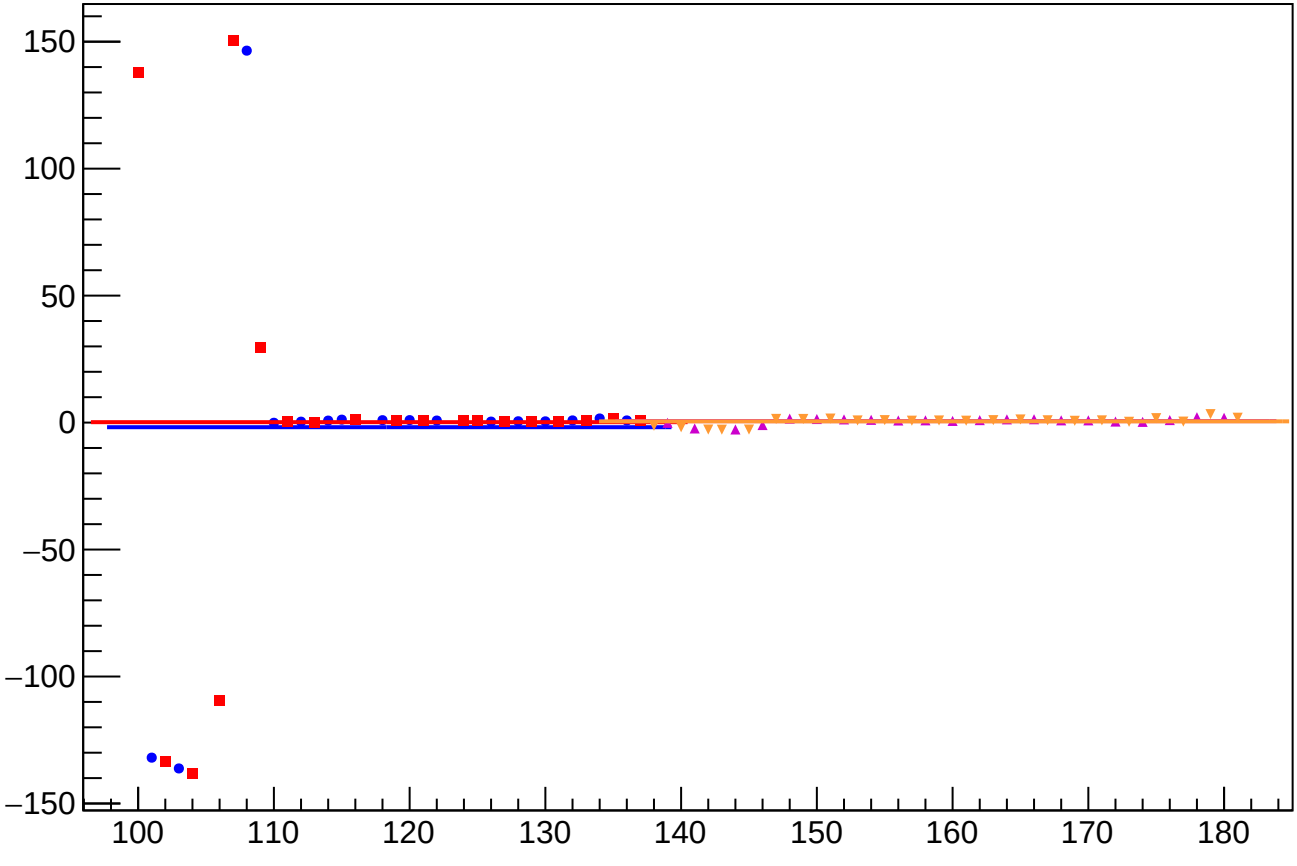
Right: 0.003+/-0.000 $\chi^2$/NDF: 20845702.5/34

In: 0.003+/-0.000 $\chi^2$/NDF:39894342.4/36

Out: 0.003+/-0.000 $\chi^2$/NDF:41503992.5/41

All: 0.003+/-0.000 $\chi^2$/NDF: 81398697.4/78

# yield_cav4cX_mean vs Slug, Sign Corrected




Right In: -1.818+/-0.000 $\chi^2$/NDF: 9887177310.2/15

Left Out: 0.488+/-0.000 $\chi^2$/NDF:145034654.3/22

Right Out: 0.165+/-0.000 $\chi^2$/NDF: 3611245020.0/18

Left In: 0.583+/-0.000 $\chi^2$/NDF:86291642.9/20

Left: 0.533+/-0.000 $\chi^2$/NDF: 231572370.2/43

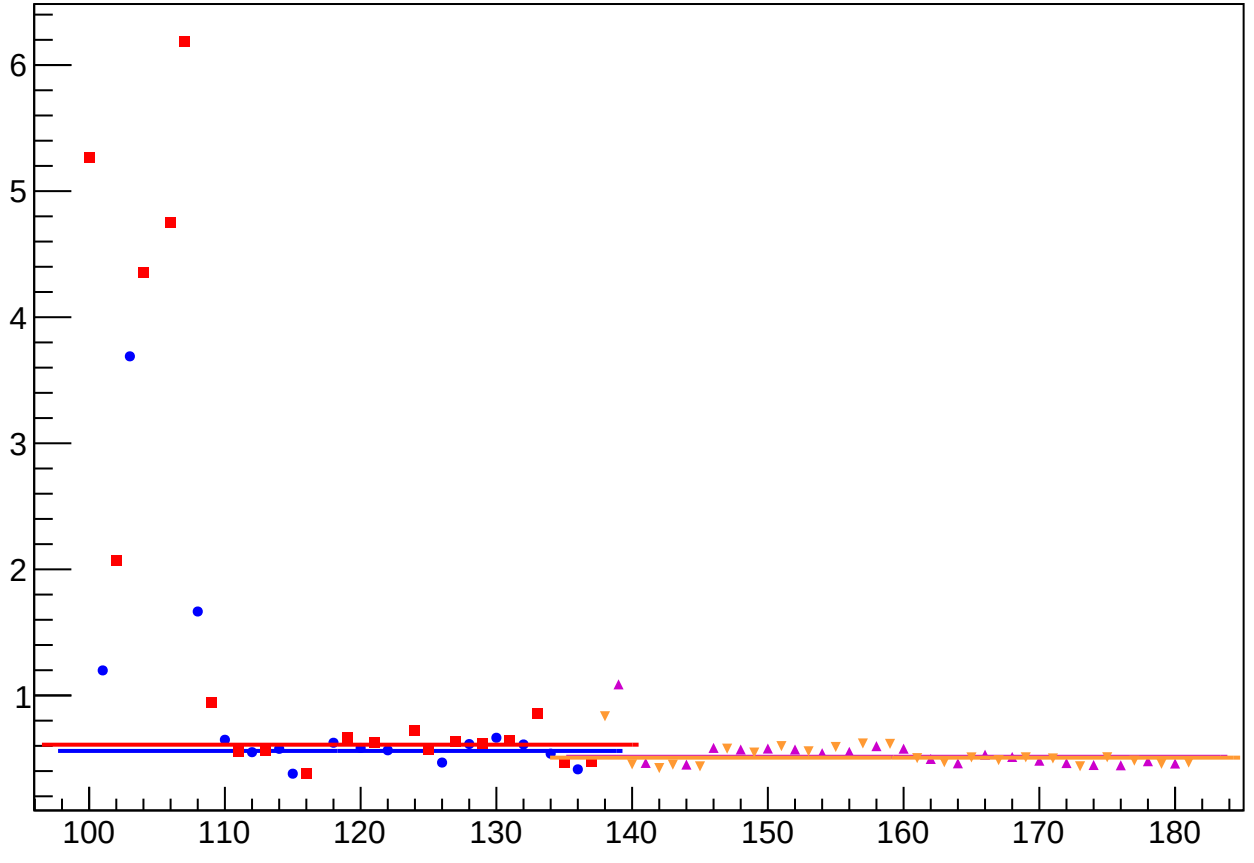
Right: -0.919+/-0.000 $\chi^2$/NDF: 13527173630.8/34

In: 0.018+/-0.000 $\chi^2$/NDF:10044558923.0/36

Out: 0.427+/-0.000 $\chi^2$/NDF:3757414079.6/41

All: 0.226+/-0.000 $\chi^2$/NDF: 13807796585.1/7

# yield_cav4cX_rms vs Slug, Sign Corrected




Right In: 0.560+/-0.000 $\chi^2$/NDF: 1598439.5/15

Left Out: 0.507+/-0.000 $\chi^2$/NDF:553969.9/22

Right Out: 0.609+/-0.000 $\chi^2$/NDF: 2476010.3/18

Left In: 0.513+/-0.000 $\chi^2$/NDF:750588.9/20

Left: 0.510+/-0.000 $\chi^2$/NDF: 1307111.0/43

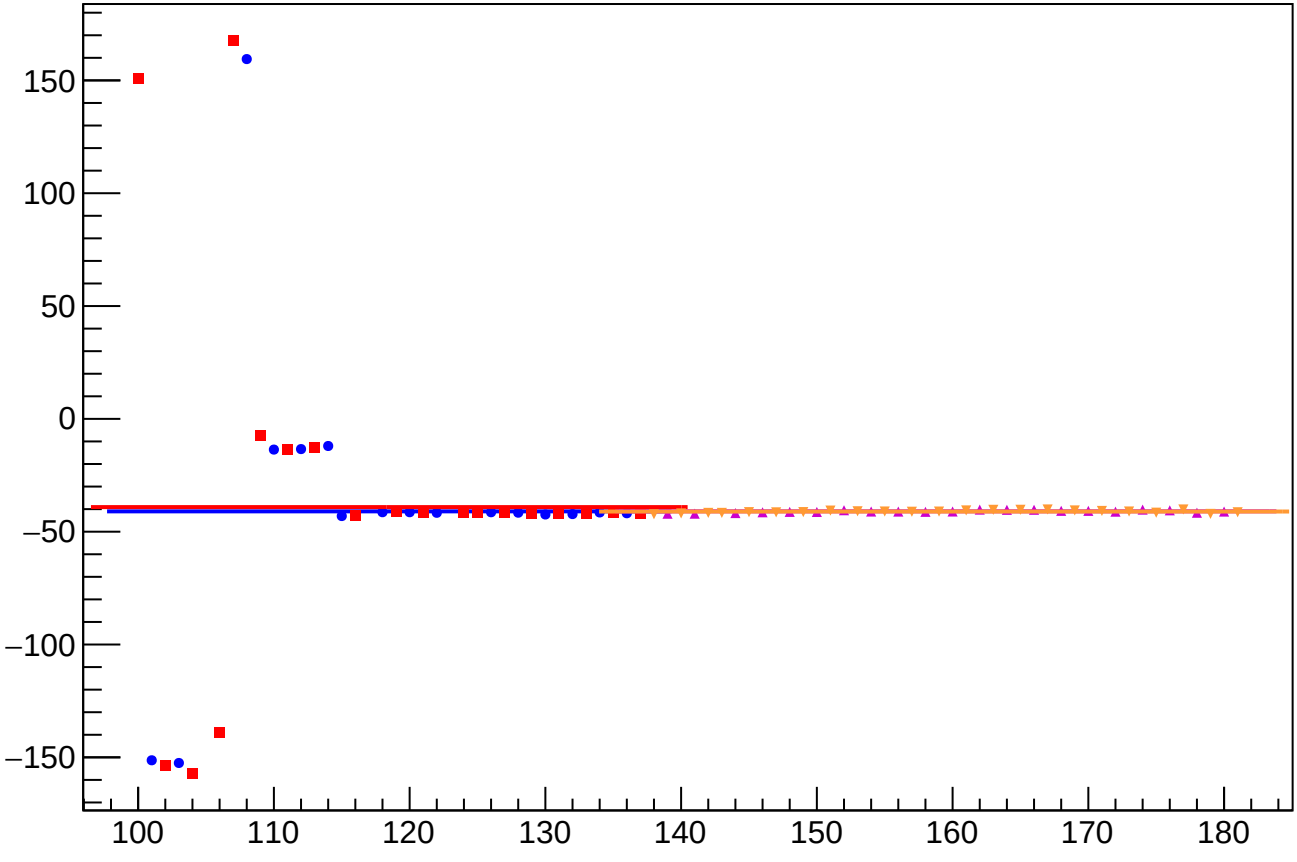
Right: 0.582+/-0.000 $\chi^2$/NDF: 4110324.4/34

In: 0.524+/-0.000 $\chi^2$/NDF:2402141.3/36

Out: 0.526+/-0.000 $\chi^2$/NDF:3259116.0/41

All: 0.525+/-0.000 $\chi^2$/NDF: 5661455.3/78

# yield_cav4cY_mean vs Slug, Sign Corrected




Right In: -40.987+/-0.000 $\chi^2$/NDF: 3449622021.8/15

Left Out: -41.062+/-0.000 $\chi^2$/NDF:54975244.3/22

Right Out: -39.101+/-0.000 $\chi^2$/NDF: 2480133442.0/18

Left In: -40.973+/-0.000 $\chi^2$/NDF:37389704.0/20

Left: -41.020+/-0.000 $\chi^2$/NDF: 92939658.7/43

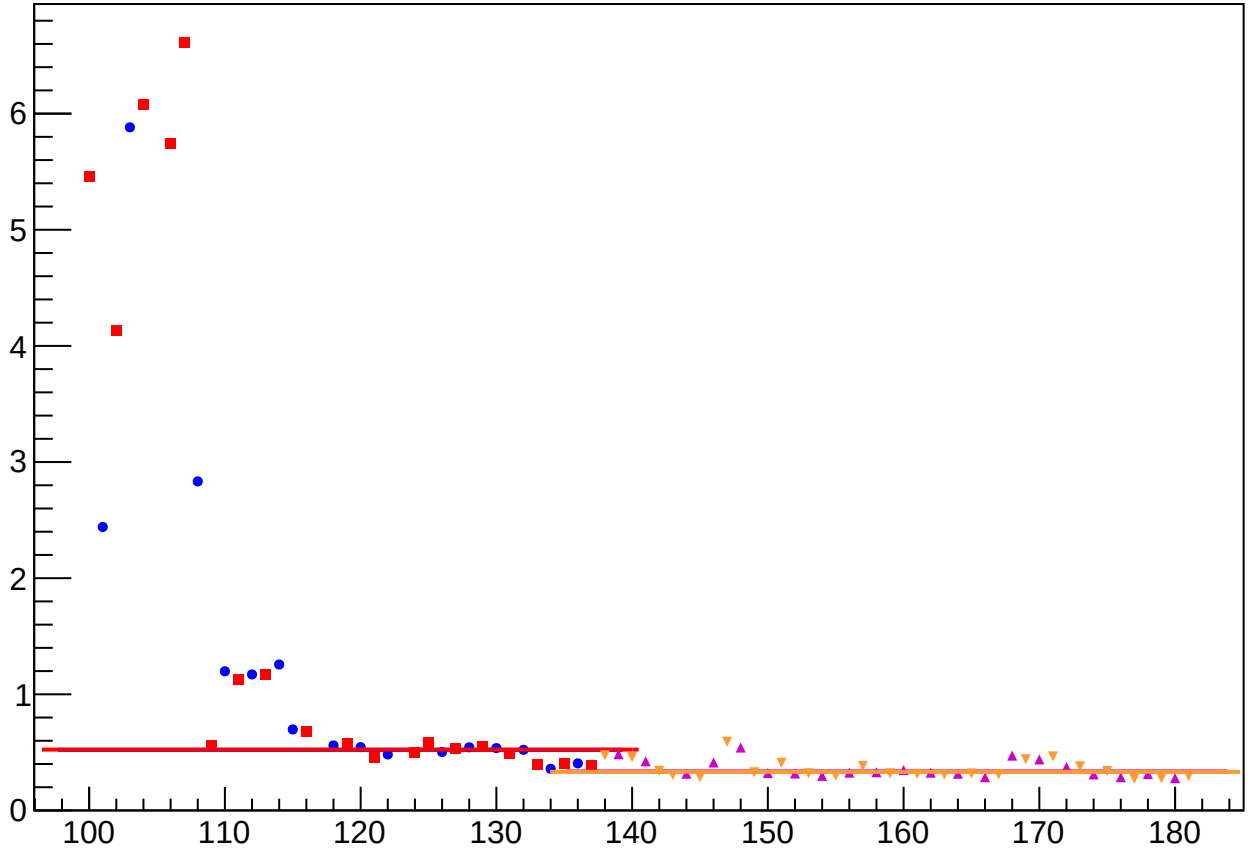
Right: -40.058+/-0.000 $\chi^2$/NDF: 5962079351.2/34

In: -40.975+/-0.000 $\chi^2$/NDF:3487014731.7/36

Out: -40.856+/-0.000 $\chi^2$/NDF:2596742649.5/41

All: -40.913+/-0.000 $\chi^2$/NDF: 6084916487.6/

# yield_cav4cY_rms vs Slug, Sign Corrected




Right In: 0.522+/-0.000 $\chi^2$/NDF: 2949327.6/15

Left Out: 0.332+/-0.000 $\chi^2$/NDF:1125856.4/22

Right Out: 0.524+/-0.000 $\chi^2$/NDF: 3264460.0/18

Left In: 0.336+/-0.000 $\chi^2$/NDF:940869.8/20

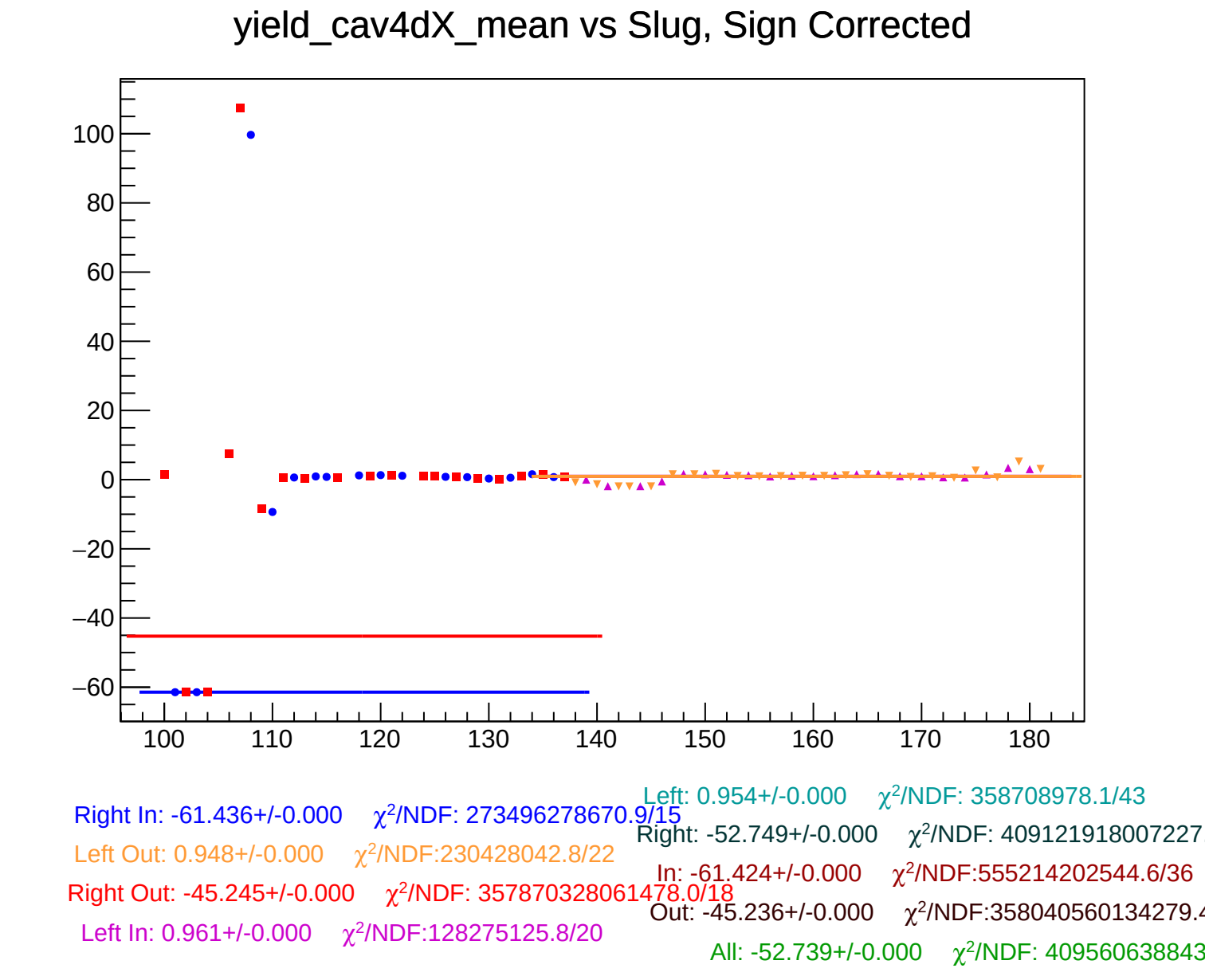
Left: 0.334+/-0.000 $\chi^2$/NDF: 2069199.0/43

Right: 0.523+/-0.000 $\chi^2$/NDF: 6213857.4/34

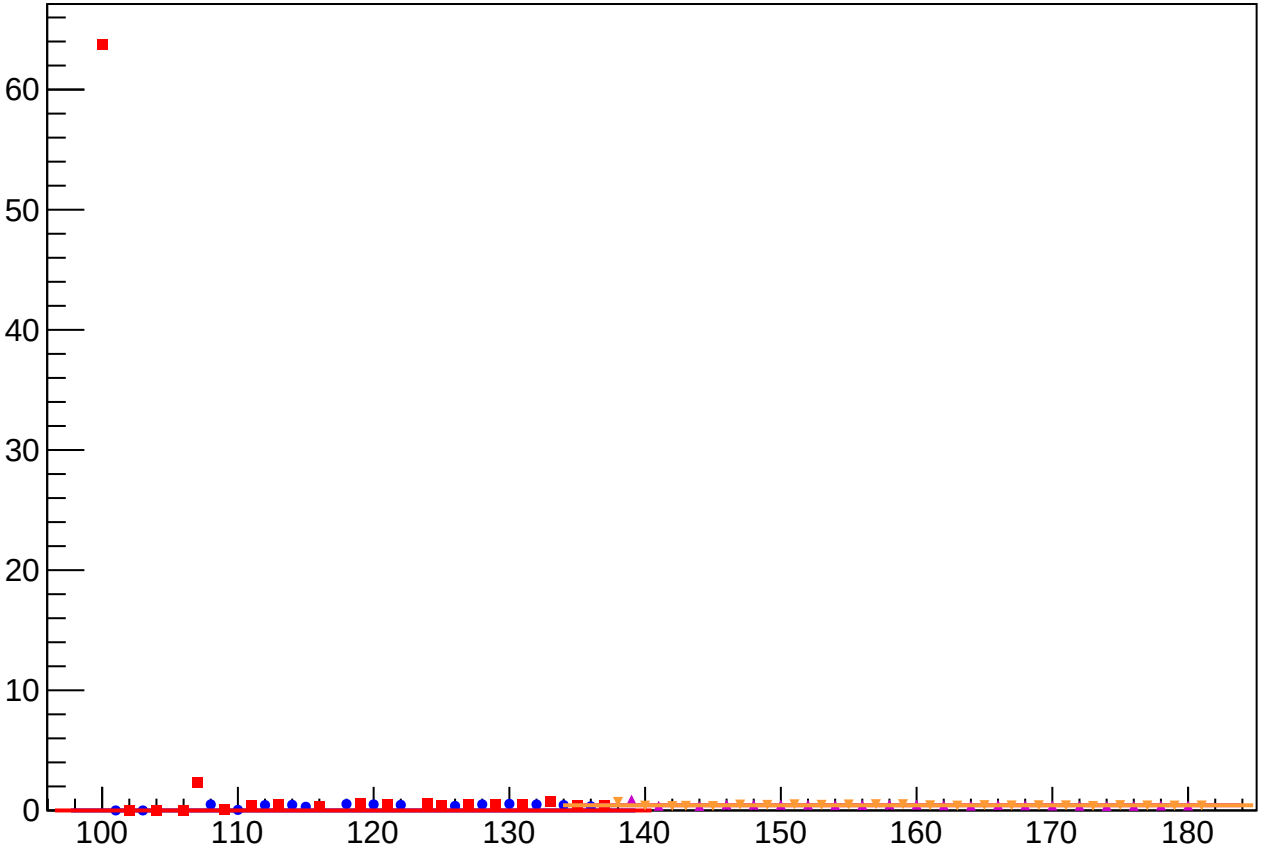
In: 0.358+/-0.000 $\chi^2$/NDF:5013893.9/36

Out: 0.352+/-0.000 $\chi^2$/NDF:5568003.9/41

All: 0.355+/-0.000 $\chi^2$/NDF: 10586997.6/78


yield_cav4dX_mean vs Slug, Sign Corrected
100
80
60
40
20
0
−20
−40
−60
100
110
120
130
140
150
160
170
180
Right In: -61.436+/-0.000 χ²/NDF: 273496278670.9/15
Left Out: 0.948+/-0.000 χ²/NDF:230428042.8/22
Right Out: -45.245+/-0.000 χ²/NDF: 357870328061478.0/18
Left In: 0.961+/-0.000 χ²/NDF:128275125.8/20
Left: 0.954+/-0.000 χ²/NDF: 358708978.1/43
Right: -52.749+/-0.000 χ²/NDF: 409121918007227
In: -61.424+/-0.000 χ²/NDF:555214202544.6/36
Out: -45.236+/-0.000 χ²/NDF:358040560134279.4
All: -52.739+/-0.000 χ²/NDF: 409560638843

# yield_cav4dX_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 9156181.6/15

Left Out: 0.431+/-0.000 $\chi^2$/NDF:524708.5/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 9345109.5/18

Left In: 0.439+/-0.000 $\chi^2$/NDF:694038.4/20

Left: 0.435+/-0.000 $\chi^2$/NDF: 1223047.5/43

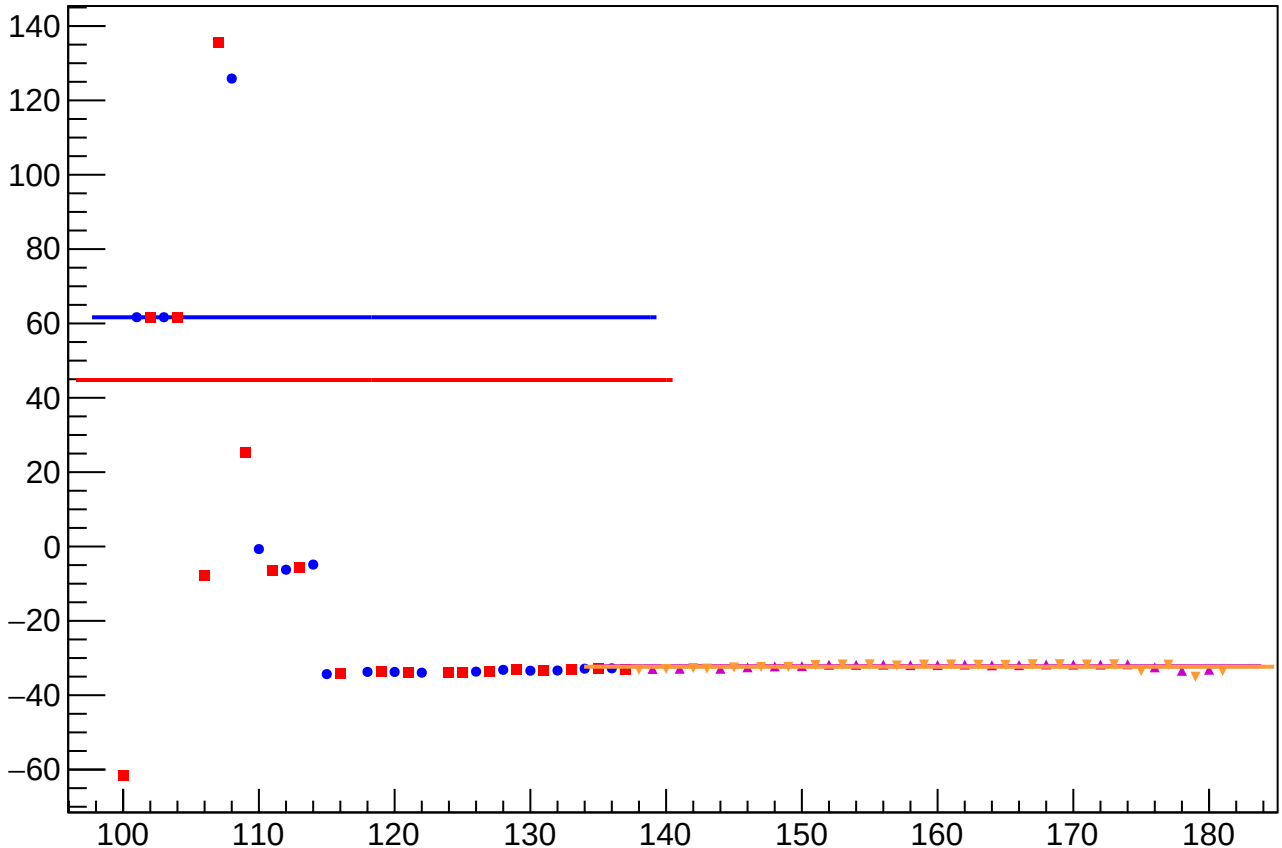
Right: 0.001+/-0.000 $\chi^2$/NDF: 18501293.3/34

In: 0.002+/-0.000 $\chi^2$/NDF:37483038.8/36

Out: 0.002+/-0.000 $\chi^2$/NDF:39268899.3/41

All: 0.002+/-0.000 $\chi^2$/NDF: 76751963.3/78

# yield_cav4dY_mean vs Slug, Sign Corrected




Right In: 61.662+/-0.000 $\chi^2$/NDF: 369463062074.0/15

Left Out: -32.336+/-0.000 $\chi^2$/NDF:155864901.0/22

Right Out: 44.786+/-0.000 $\chi^2$/NDF: 3660947782299 51.8/18

Left In: -32.196+/-0.000 $\chi^2$/NDF:58004783.6/20

Left: -32.269+/-0.000 $\chi^2$/NDF: 215860922.7/43

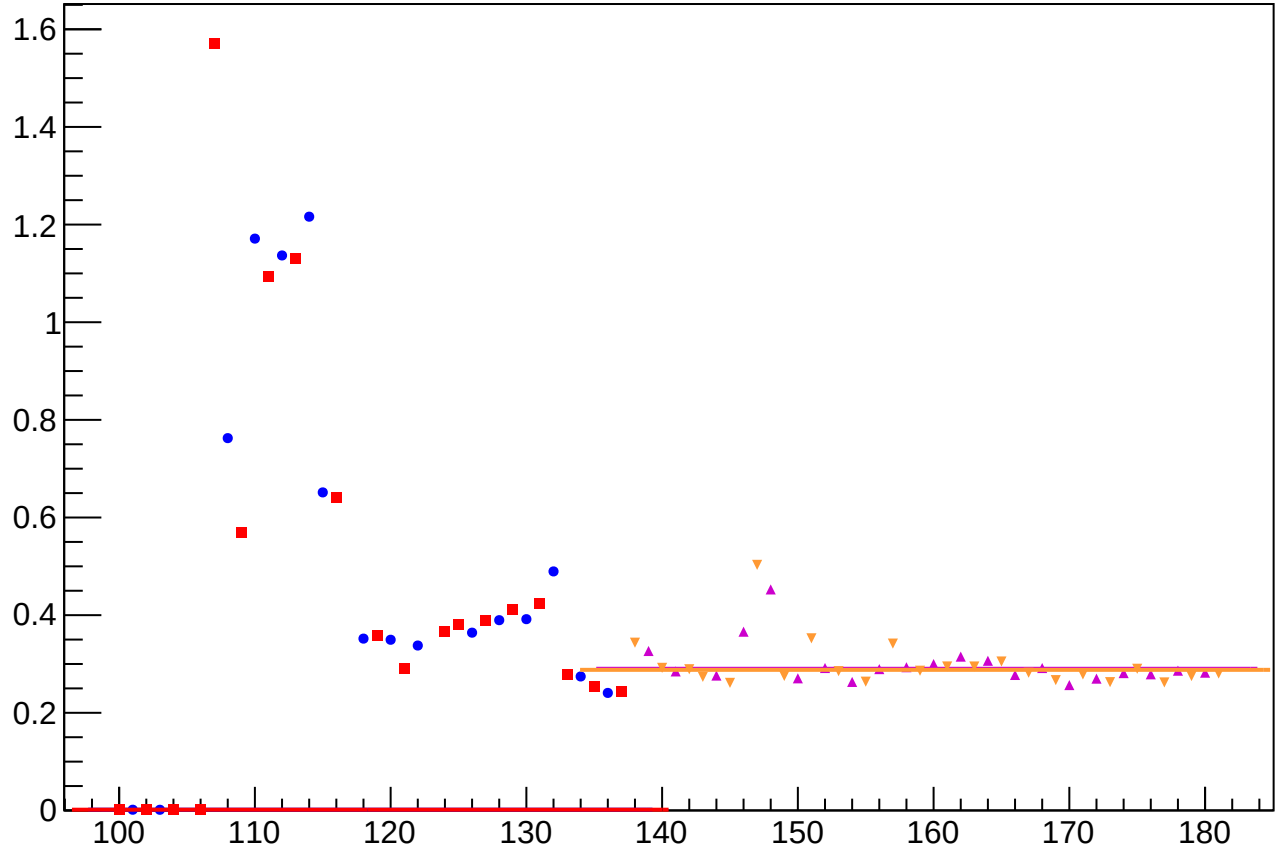
Right: 52.689+/-0.000 $\chi^2$/NDF: 417568081486015.

In: 61.608+/-0.000 $\chi^2$/NDF:2087358171165.9/36

Out: 44.743+/-0.000 $\chi^2$/NDF:367343369183775.5

All: 52.641+/-0.000 $\chi^2$/NDF: 420490773732

# yield_cav4dY_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 11024564.1/15

Left Out: 0.288+/-0.000 $\chi^2$/NDF:511888.5/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 10559220.1/18

Left In: 0.290+/-0.000 $\chi^2$/NDF:385417.3/20

Left: 0.289+/-0.000 $\chi^2$/NDF: 898259.8/43

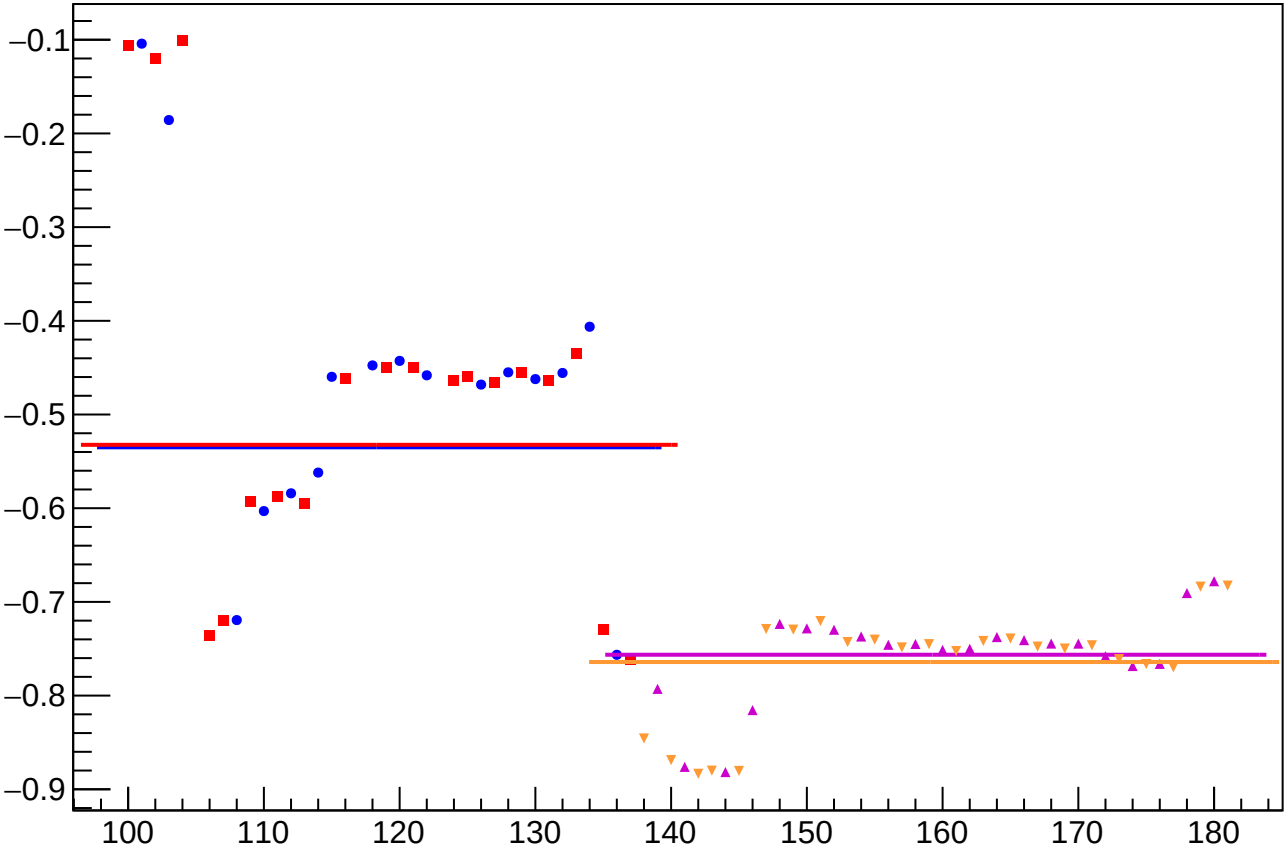
Right: 0.002+/-0.000 $\chi^2$/NDF: 21583912.3/34

In: 0.002+/-0.000 $\chi^2$/NDF:43905357.3/36

Out: 0.002+/-0.000 $\chi^2$/NDF:45519994.4/41

All: 0.002+/-0.000 $\chi^2$/NDF: 89425380.9/78

# yield_bpm4aX_mean vs Slug, Sign Corrected




Right In: -0.535+/-0.000 $\chi^2$/NDF: 300846309.5/15

Left Out: -0.764+/-0.000 $\chi^2$/NDF:149668377.0/22

Right Out: -0.532+/-0.000 $\chi^2$/NDF: 214124648.5/18

Left In: -0.756+/-0.000 $\chi^2$/NDF:109015757.7/20

Left: -0.760+/-0.000 $\chi^2$/NDF: 259928432.1/43

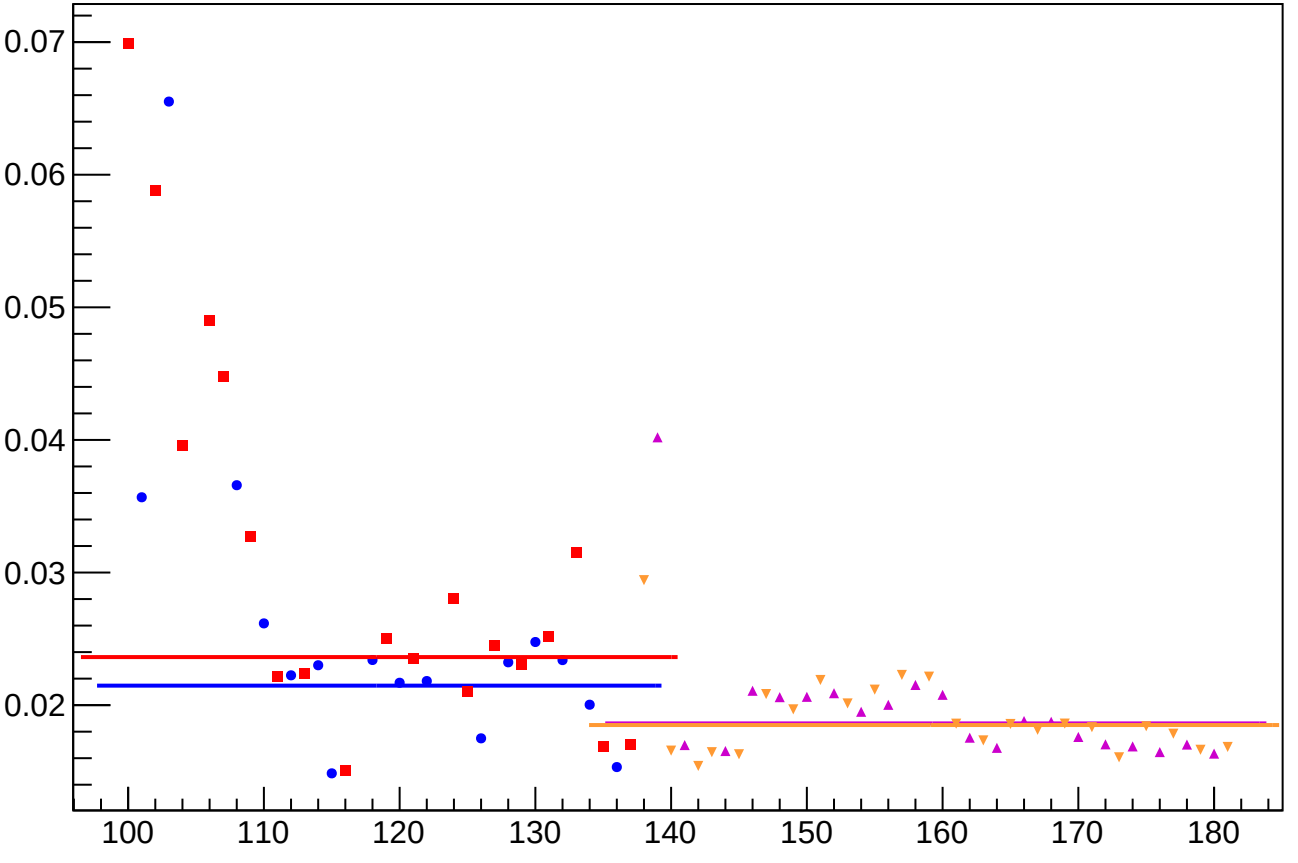
Right: -0.534+/-0.000 $\chi^2$/NDF: 515008587.7/34

In: -0.706+/-0.000 $\chi^2$/NDF:850702783.4/36

Out: -0.720+/-0.000 $\chi^2$/NDF:799610209.1/41

All: -0.713+/-0.000 $\chi^2$/NDF: 1655572777.0/7

# yield_bpm4aX_rms vs Slug, Sign Corrected




Right In: 0.021+/-0.000 $\chi^2$/NDF: 1153987.6/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:491186.3/22

Right Out: 0.024+/-0.000 $\chi^2$/NDF: 1277268.6/18

Left In: 0.019+/-0.000 $\chi^2$/NDF:738099.9/20

Left: 0.019+/-0.000 $\chi^2$/NDF: 1229921.9/43

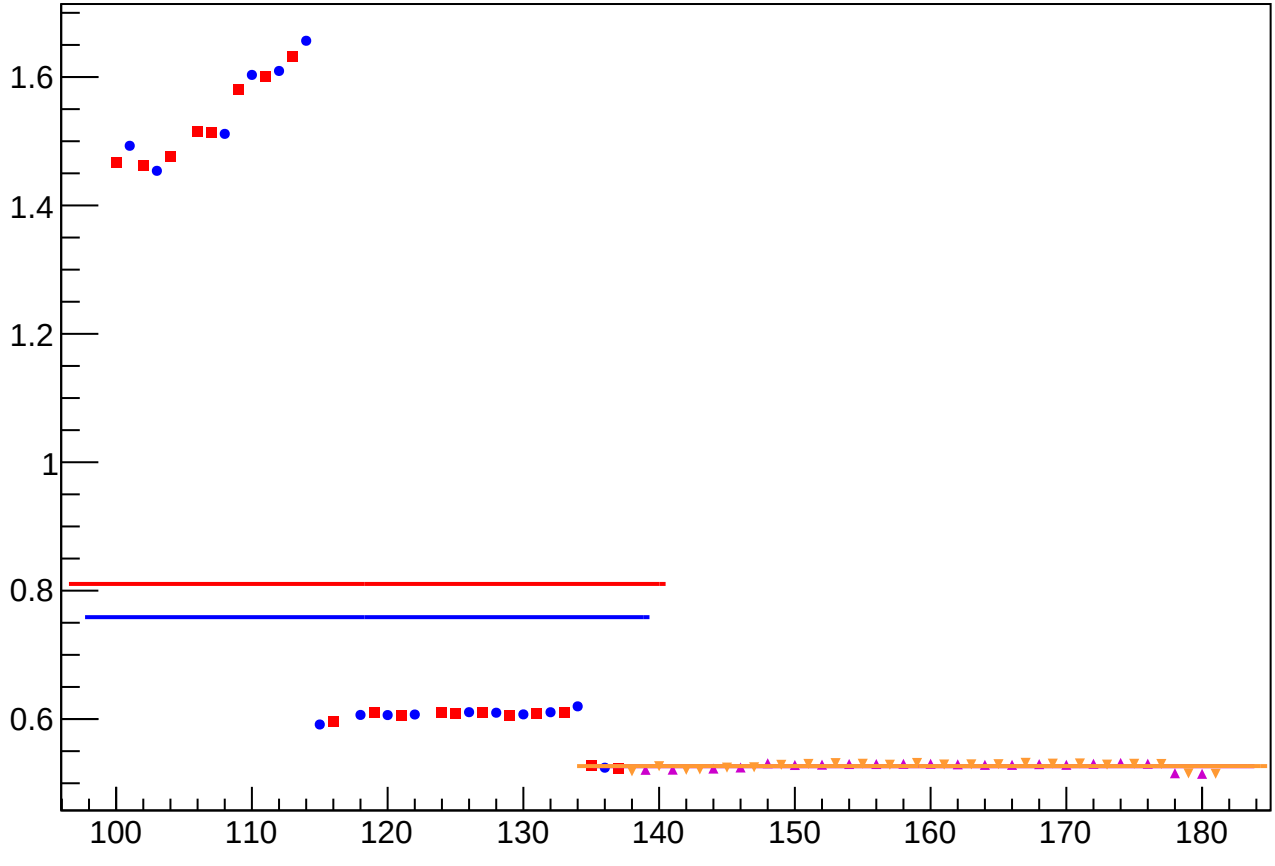
Right: 0.022+/-0.000 $\chi^2$/NDF: 2481109.4/34

In: 0.019+/-0.000 $\chi^2$/NDF:2037901.5/36

Out: 0.019+/-0.000 $\chi^2$/NDF:2194486.9/41

All: 0.019+/-0.000 $\chi^2$/NDF: 4234418.8/78

# yield_bpm4aY_mean vs Slug, Sign Corrected




Right In: 0.759+/-0.000 $\chi^2$/NDF: 4304169889.2/15

Left Out: 0.527+/-0.000 $\chi^2$/NDF:3648438.3/22

Right Out: 0.810+/-0.000 $\chi^2$/NDF: 4769381416.8/18

Left In: 0.526+/-0.000 $\chi^2$/NDF:3278633.3/20

Left: 0.527+/-0.000 $\chi^2$/NDF: 6930816.2/43

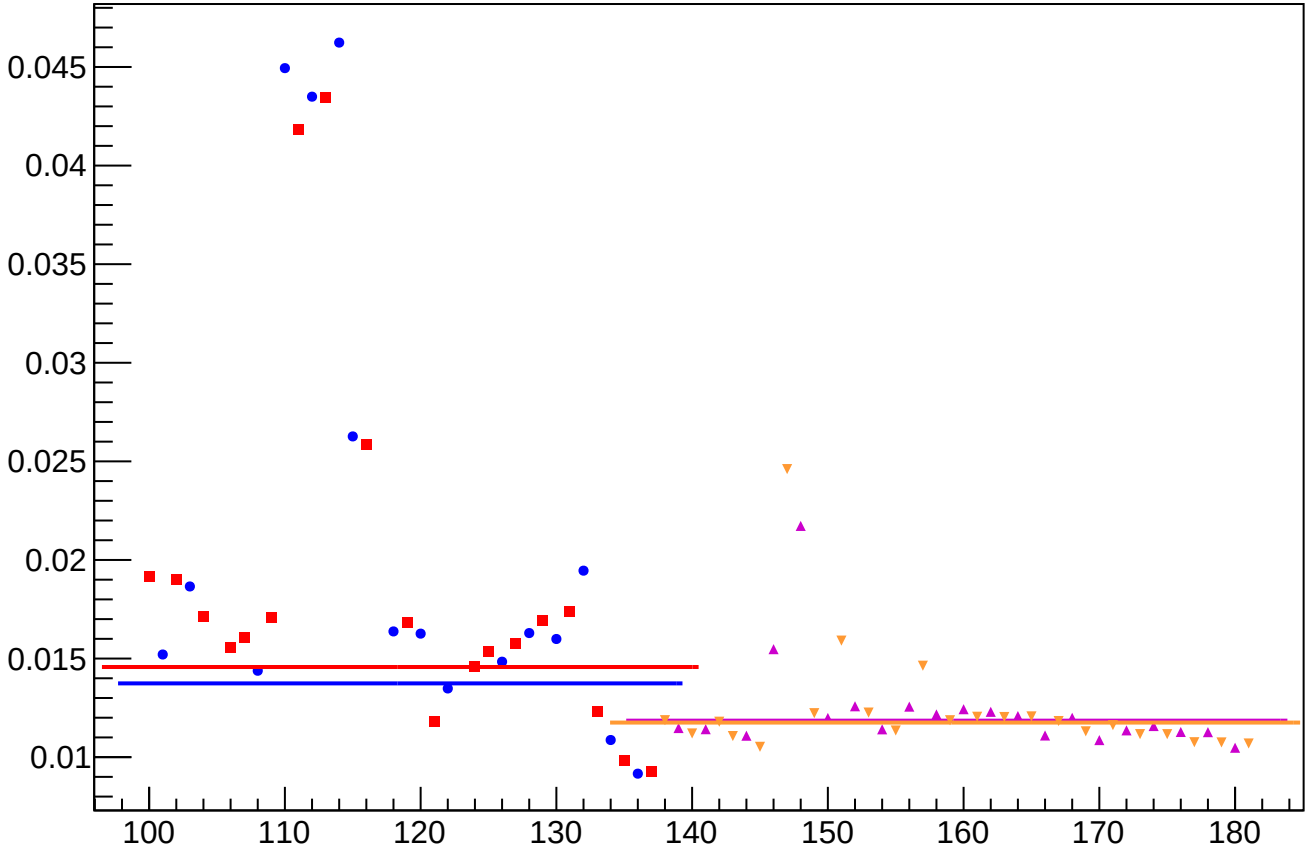
Right: 0.784+/-0.000 $\chi^2$/NDF: 9114268233.2/34

In: 0.576+/-0.000 $\chi^2$/NDF:5648084396.1/36

Out: 0.580+/-0.000 $\chi^2$/NDF:6692576035.1/41

All: 0.578+/-0.000 $\chi^2$/NDF: 12342244369.2/7

# yield_bpm4aY_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1649769.2/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:697663.6/22

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 1455054.4/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:507256.9/20

Left: 0.012+/-0.000 $\chi^2$/NDF: 1206062.4/43

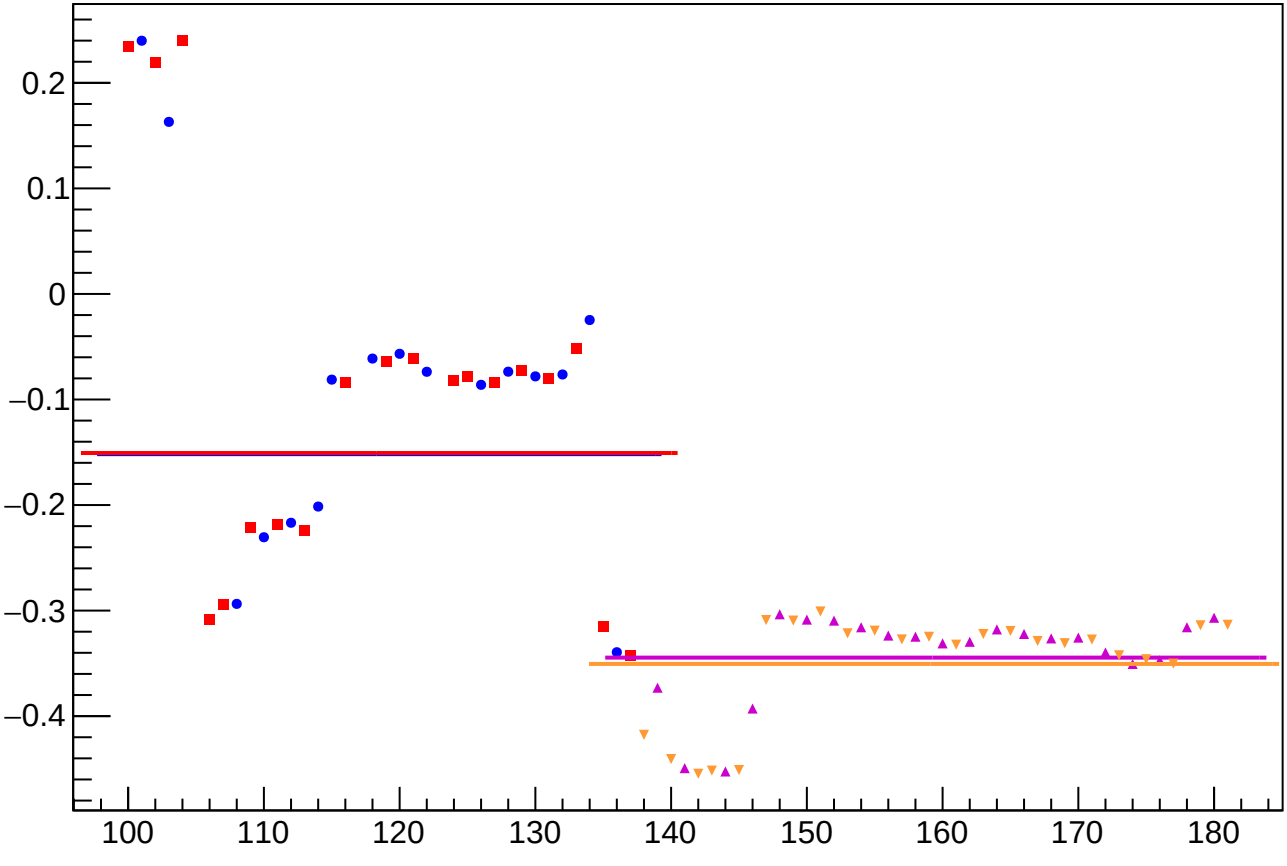
Right: 0.014+/-0.000 $\chi^2$/NDF: 3125814.5/34

In: 0.012+/-0.000 $\chi^2$/NDF:2334651.3/36

Out: 0.012+/-0.000 $\chi^2$/NDF:2531354.8/41

All: 0.012+/-0.000 $\chi^2$/NDF: 4866182.6/78

# yield_bpm4eX_mean vs Slug, Sign Corrected




Right In: -0.152+/-0.000 $\chi^2$/NDF: 276791709.3/15

Left Out: -0.351+/-0.000 $\chi^2$/NDF:113410330.0/22

Right Out: -0.151+/-0.000 $\chi^2$/NDF: 199410234.4/18

Left In: -0.345+/-0.000 $\chi^2$/NDF:82549424.3/20

Left: -0.348+/-0.000 $\chi^2$/NDF: 196716805.0/43

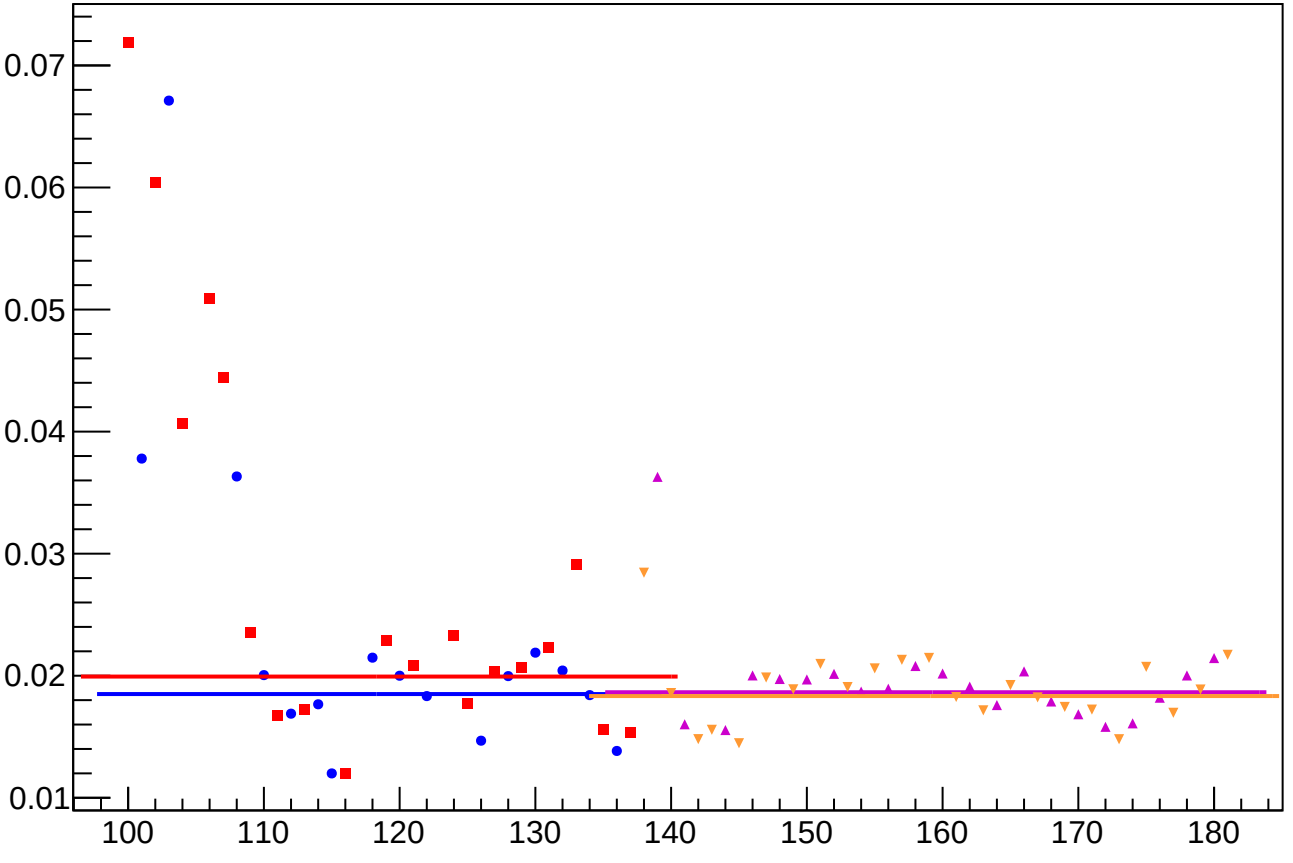
Right: -0.151+/-0.000 $\chi^2$/NDF: 476210345.8/34

In: -0.291+/-0.000 $\chi^2$/NDF:774039765.7/36

Out: -0.303+/-0.000 $\chi^2$/NDF:731287659.7/41

All: -0.298+/-0.000 $\chi^2$/NDF: 1509480393.4/7

# yield_bpm4eX_rms vs Slug, Sign Corrected




Right In: 0.018+/-0.000 $\chi^2$/NDF: 1372359.1/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:586381.1/22

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 1547561.3/18

Left In: 0.019+/-0.000 $\chi^2$/NDF:673003.4/20

Left: 0.018+/-0.000 $\chi^2$/NDF: 1263539.6/43

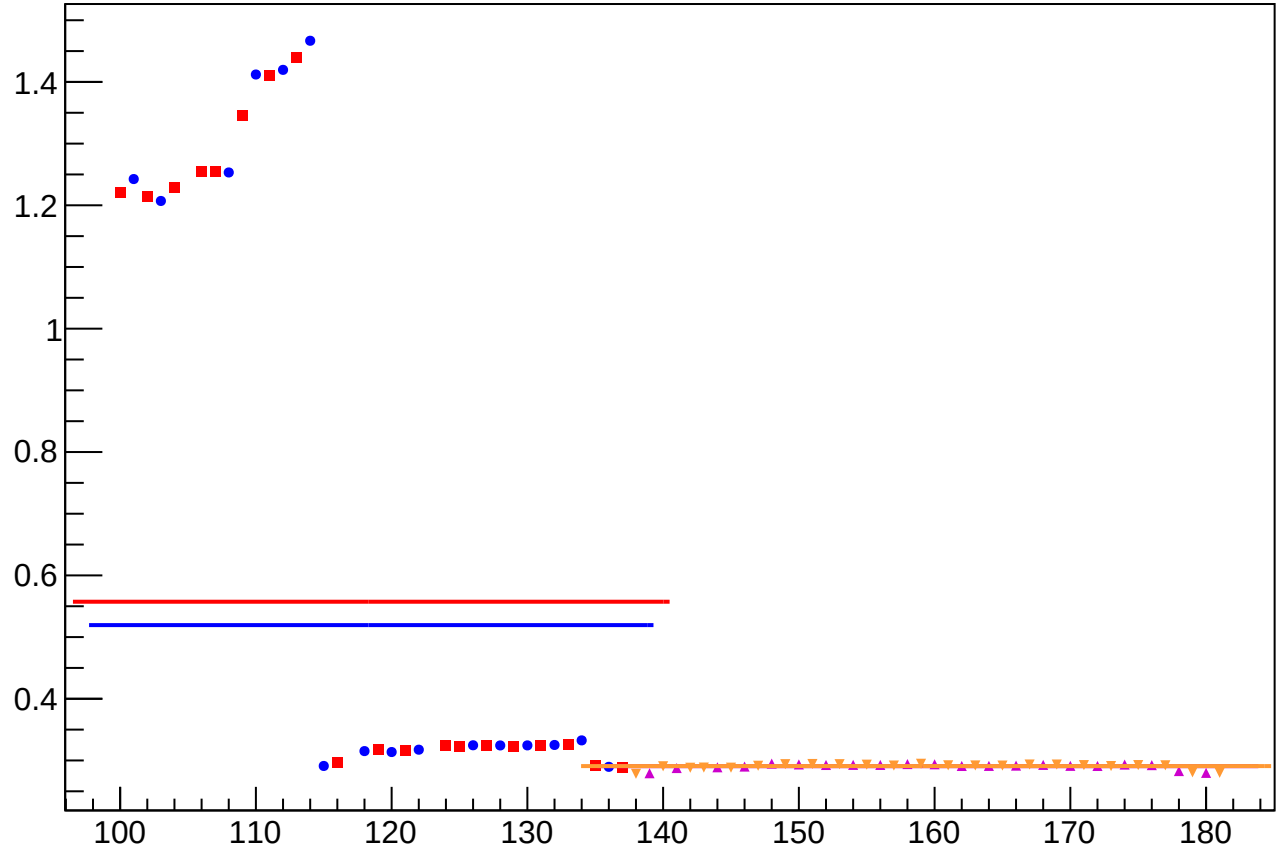
Right: 0.019+/-0.000 $\chi^2$/NDF: 2949710.8/34

In: 0.019+/-0.000 $\chi^2$/NDF:2045857.2/36

Out: 0.019+/-0.000 $\chi^2$/NDF:2187406.4/41

All: 0.019+/-0.000 $\chi^2$/NDF: 4233882.3/78

# yield_bpm4eY_mean vs Slug, Sign Corrected




Right In: 0.519+/-0.000 $\chi^2$/NDF: 6319132275.3/15

Left Out: 0.291+/-0.000 $\chi^2$/NDF:2428203.4/22

Right Out: 0.557+/-0.000 $\chi^2$/NDF: 6746144835.5/18

Left In: 0.291+/-0.000 $\chi^2$/NDF:2256045.7/20

Left: 0.291+/-0.000 $\chi^2$/NDF: 4685918.2/43

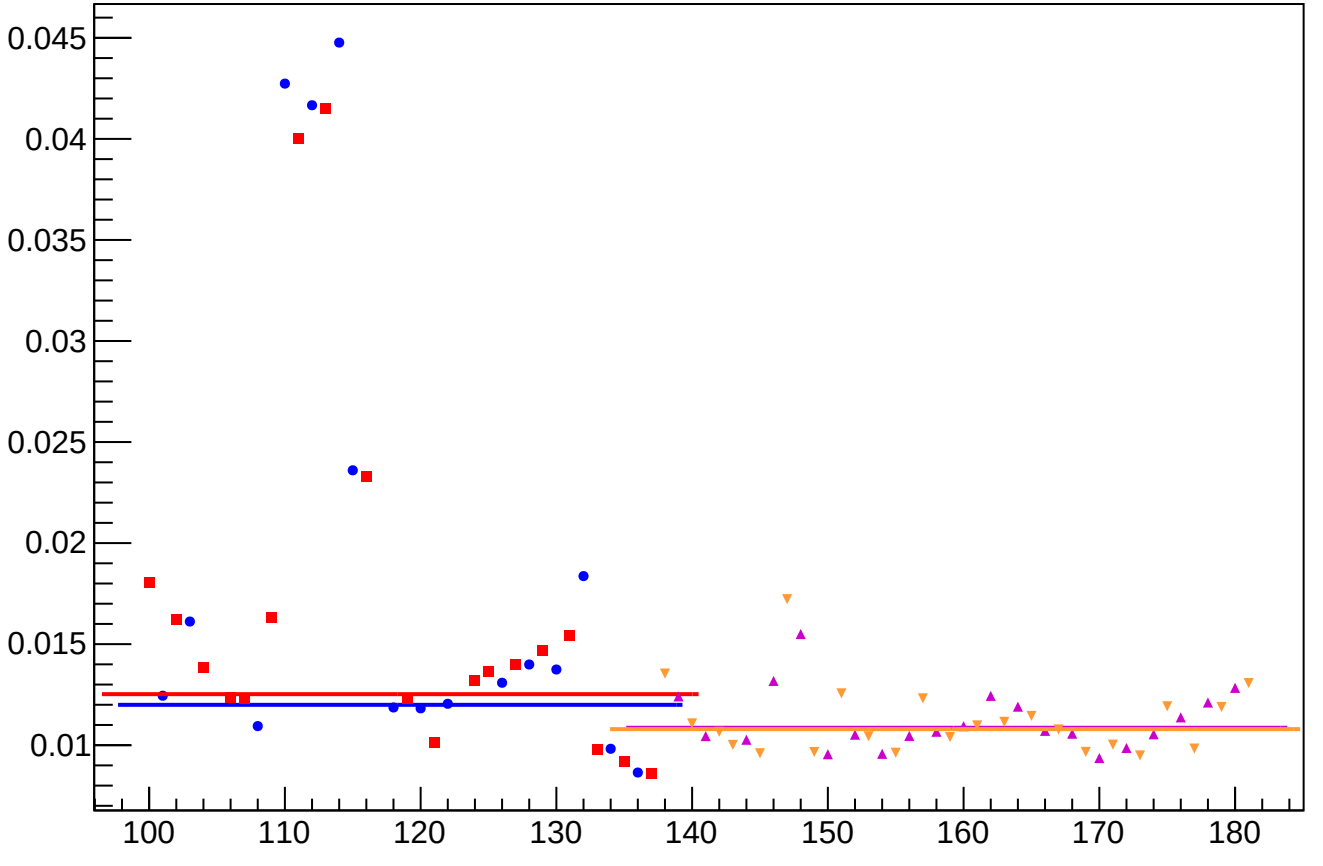
Right: 0.538+/-0.000 $\chi^2$/NDF: 13094140546.7/34

In: 0.343+/-0.000 $\chi^2$/NDF:7989738413.5/36

Out: 0.346+/-0.000 $\chi^2$/NDF:8944770729.8/41

All: 0.345+/-0.000 $\chi^2$/NDF: 16935274156.8/7

# yield_bpm4eY_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1491608.2/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:581989.4/22

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 1434210.5/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:451251.7/20

Left: 0.011+/-0.000 $\chi^2$/NDF: 1033898.5/43

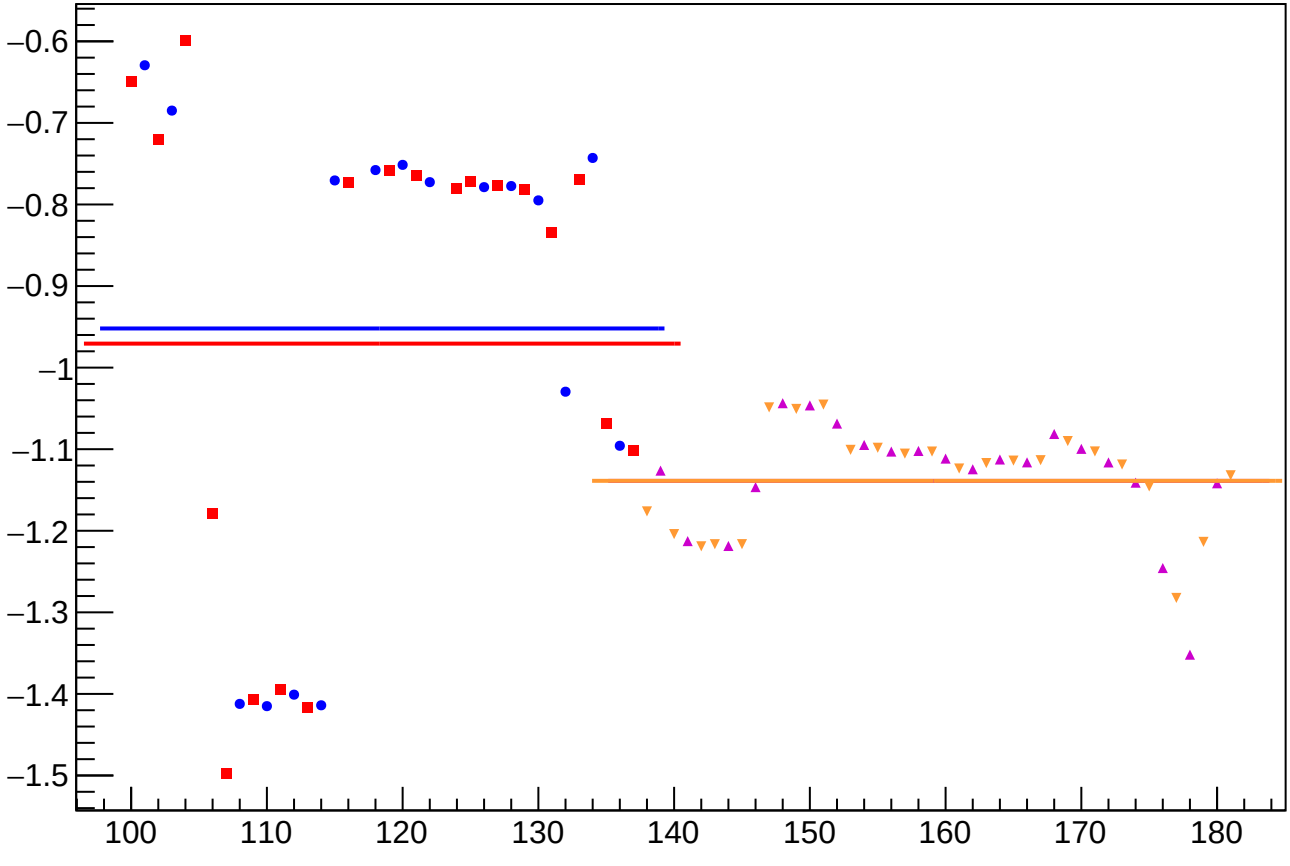
Right: 0.012+/-0.000 $\chi^2$/NDF: 2937026.7/34

In: 0.011+/-0.000 $\chi^2$/NDF:2025035.7/36

Out: 0.011+/-0.000 $\chi^2$/NDF:2201511.8/41

All: 0.011+/-0.000 $\chi^2$/NDF: 4226720.9/78

# yield_bpm4acX_mean vs Slug, Sign Corrected




Right In: -0.952+/-0.000 $\chi^2$/NDF: 699468857.6/15

Left Out: -1.139+/-0.000 $\chi^2$/NDF:167326025.3/22

Right Out: -0.971+/-0.000 $\chi^2$/NDF: 714505458.0/18

Left In: -1.139+/-0.000 $\chi^2$/NDF:220502673.9/20

Left: -1.139+/-0.000 $\chi^2$/NDF: 387828972.6/43

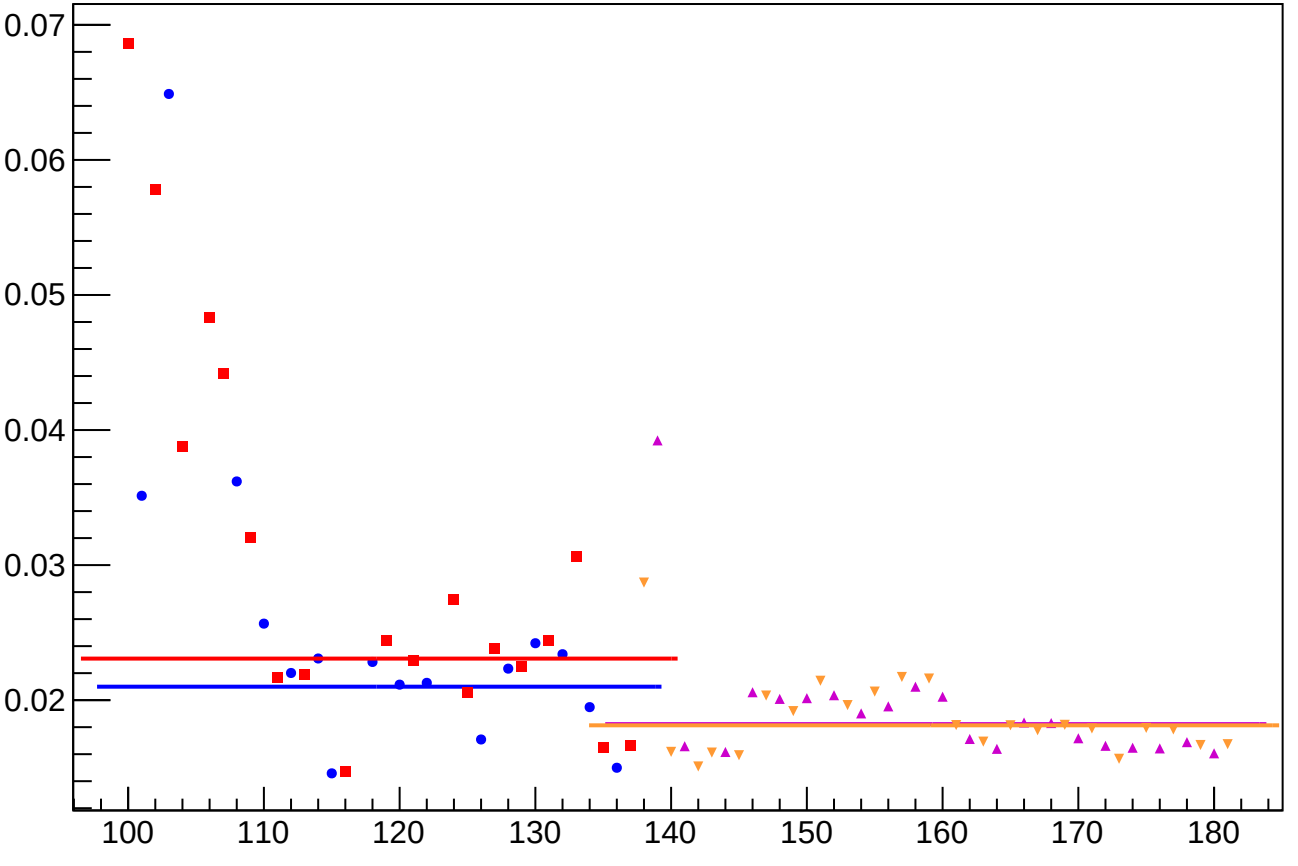
Right: -0.961+/-0.000 $\chi^2$/NDF: 1415910427.1/34

In: -1.097+/-0.000 $\chi^2$/NDF:1247972929.6/36

Out: -1.107+/-0.000 $\chi^2$/NDF:1121253498.9/41

All: -1.102+/-0.000 $\chi^2$/NDF: 2372155814.2/7

# yield_bpm4acX_rms vs Slug, Sign Corrected




Right In: 0.021+/-0.000 $\chi^2$/NDF: 1166992.9/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:473410.4/22

Right Out: 0.023+/-0.000 $\chi^2$/NDF: 1281311.4/18

Left In: 0.018+/-0.000 $\chi^2$/NDF:723056.9/20

Left: 0.018+/-0.000 $\chi^2$/NDF: 1196815.7/43

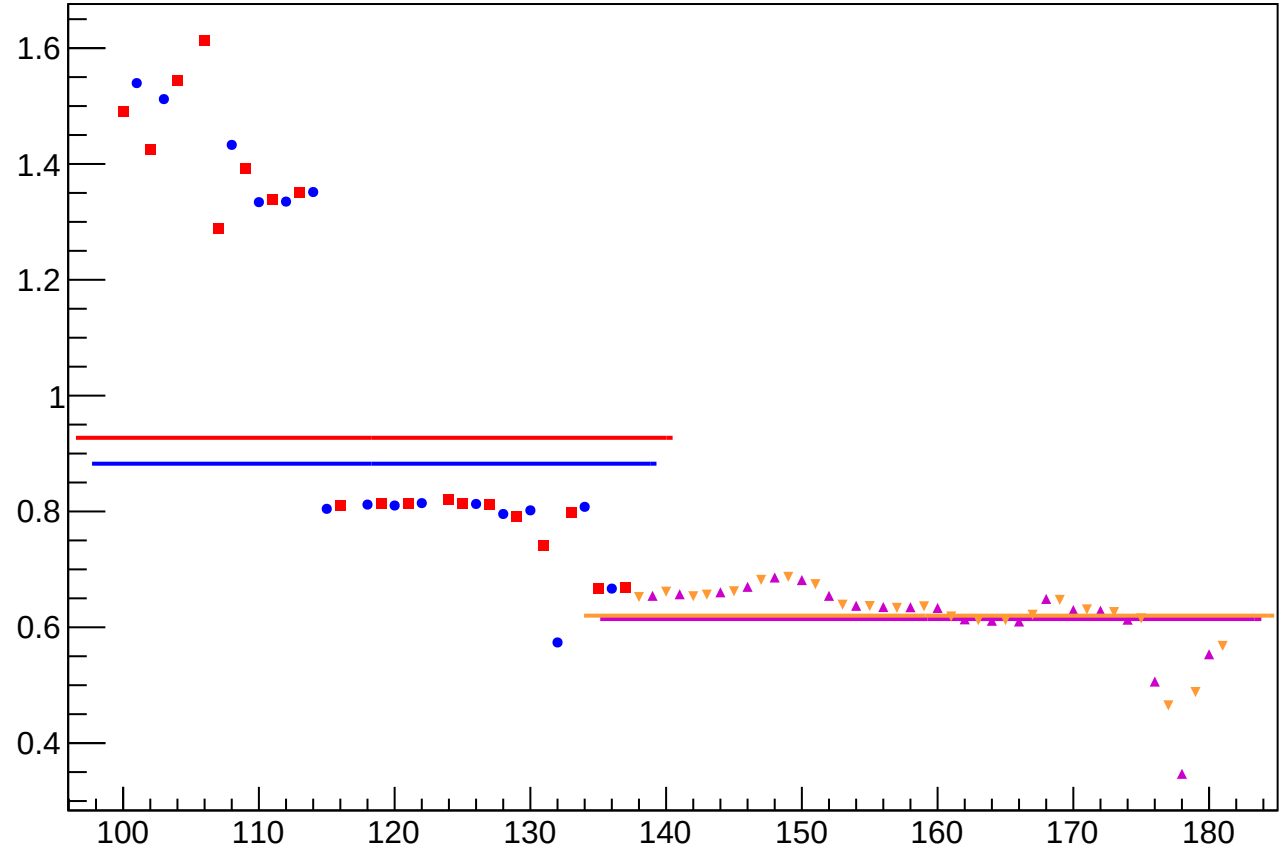
Right: 0.022+/-0.000 $\chi^2$/NDF: 2496865.9/34

In: 0.019+/-0.000 $\chi^2$/NDF:2034234.1/36

Out: 0.019+/-0.000 $\chi^2$/NDF:2167895.5/41

All: 0.019+/-0.000 $\chi^2$/NDF: 4204697.3/78

# yield_bpm4acY_mean vs Slug, Sign Corrected




Right In: 0.882+/-0.000 $\chi^2$/NDF: 2784156746.4/15

Left Out: 0.620+/-0.000 $\chi^2$/NDF:372530855.2/22

Right Out: 0.927+/-0.000 $\chi^2$/NDF: 2762998321.3/18

Left In: 0.614+/-0.000 $\chi^2$/NDF:627343456.7/20

Left: 0.617+/-0.000 $\chi^2$/NDF: 1001960966.6/43

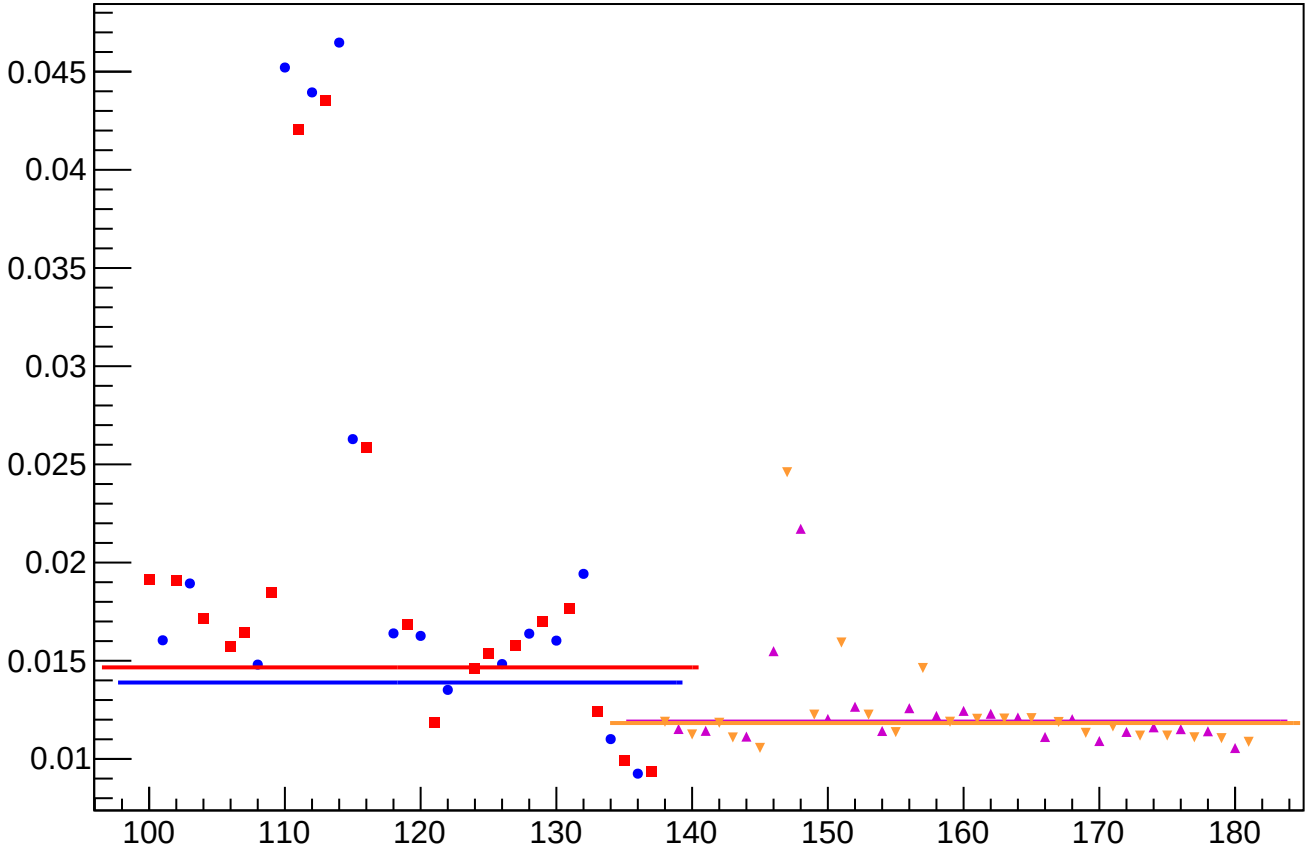
Right: 0.904+/-0.000 $\chi^2$/NDF: 5576917007.9/34

In: 0.670+/-0.000 $\chi^2$/NDF:5159860559.0/36

Out: 0.678+/-0.000 $\chi^2$/NDF:5345652461.2/41

All: 0.674+/-0.000 $\chi^2$/NDF: 10509815805.0/7

# yield_bpm4acY_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1646691.8/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:671193.3/22

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 1467025.6/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:497136.8/20

Left: 0.012+/-0.000 $\chi^2$/NDF: 1169006.3/43

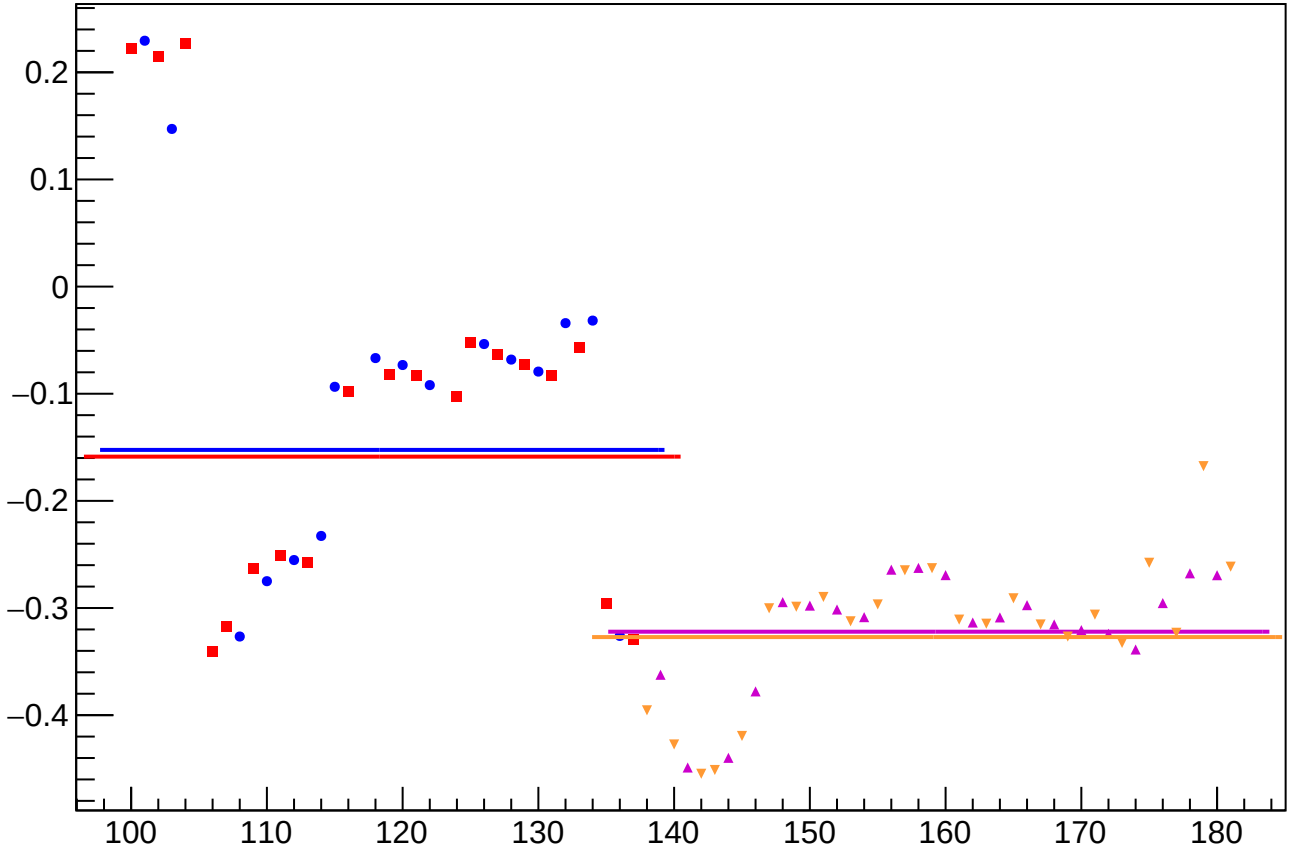
Right: 0.014+/-0.000 $\chi^2$/NDF: 3131409.7/34

In: 0.012+/-0.000 $\chi^2$/NDF:2335978.6/36

Out: 0.012+/-0.000 $\chi^2$/NDF:2514825.6/41

All: 0.012+/-0.000 $\chi^2$/NDF: 4851074.0/78

# yield_bpm4ecX_mean vs Slug, Sign Corrected




Right In: -0.152+/-0.000 $\chi^2$/NDF: 274261842.6/15

Left Out: -0.327+/-0.000 $\chi^2$/NDF:164089735.9/22

Right Out: -0.159+/-0.000 $\chi^2$/NDF: 195614120.0/18

Left In: -0.322+/-0.000 $\chi^2$/NDF:118661322.7/20

Left: -0.325+/-0.000 $\chi^2$/NDF: 283282429.9/43

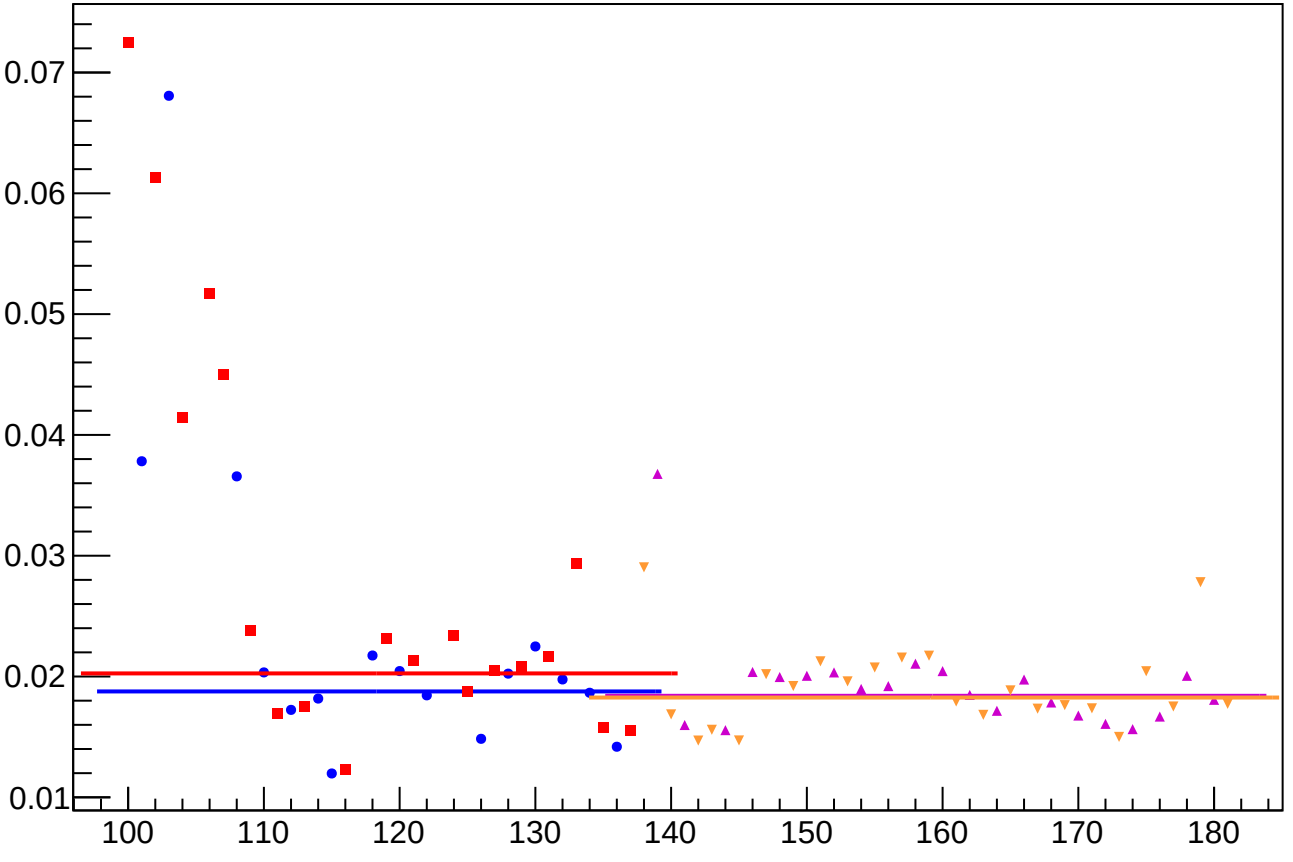
Right: -0.155+/-0.000 $\chi^2$/NDF: 470153865.7/34

In: -0.277+/-0.000 $\chi^2$/NDF:708952058.6/36

Out: -0.288+/-0.000 $\chi^2$/NDF:648176964.7/41

All: -0.282+/-0.000 $\chi^2$/NDF: 1360657065.9/7

# yield_bpm4ecX_rms vs Slug, Sign Corrected




Right In: 0.019+/-0.000 $\chi^2$/NDF: 1349412.3/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:684236.3/22

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 1529624.9/18

Left In: 0.018+/-0.000 $\chi^2$/NDF:693534.3/20

Left: 0.018+/-0.000 $\chi^2$/NDF: 1378635.0/43

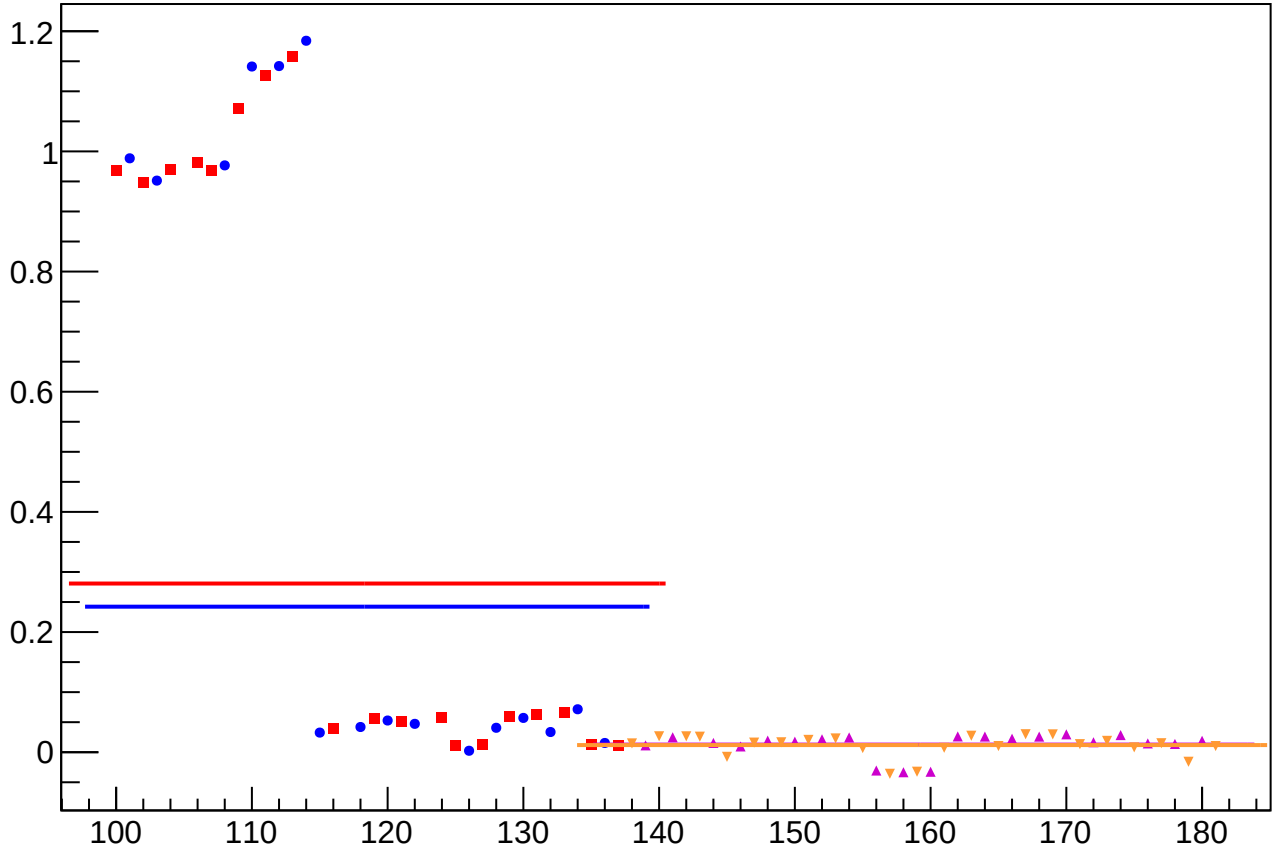
Right: 0.019+/-0.000 $\chi^2$/NDF: 2910384.5/34

In: 0.019+/-0.000 $\chi^2$/NDF:2045820.8/36

Out: 0.019+/-0.000 $\chi^2$/NDF:2294988.4/41

All: 0.019+/-0.000 $\chi^2$/NDF: 4343691.9/78

# yield_bpm4ecY_mean vs Slug, Sign Corrected




Right In: 0.242+/-0.000 $\chi^2$/NDF: 6507444426.7/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:46339868.2/22

Right Out: 0.281+/-0.000 $\chi^2$/NDF: 6757631639.3/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:57906225.2/20

Left: 0.012+/-0.000 $\chi^2$/NDF: 104295185.3/43

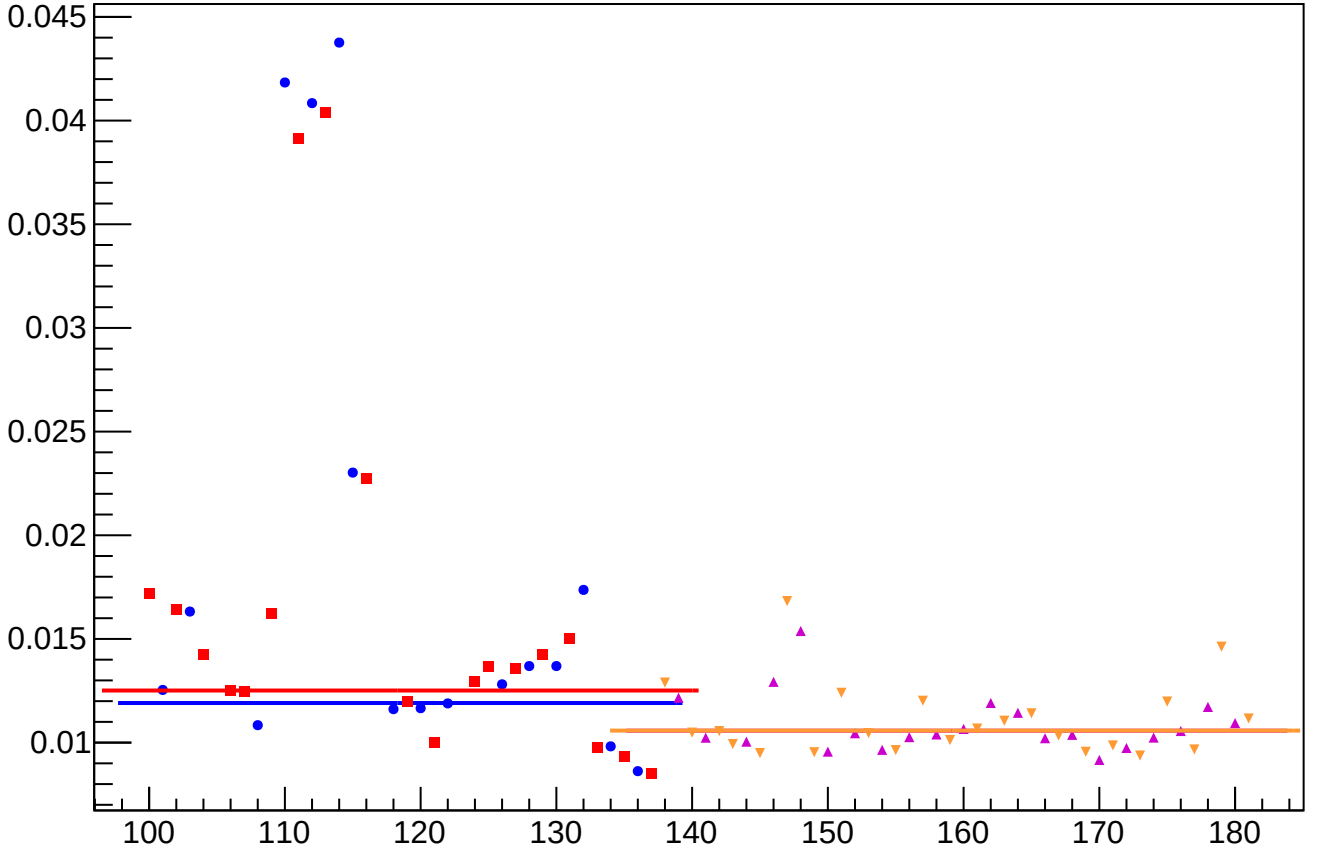
Right: 0.261+/-0.000 $\chi^2$/NDF: 13295182324.5/34

In: 0.064+/-0.000 $\chi^2$/NDF:8286430284.9/36

Out: 0.067+/-0.000 $\chi^2$/NDF:9054043290.9/41

All: 0.066+/-0.000 $\chi^2$/NDF: 17341307240.3/7

# yield_bpm4ecY_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1459428.8/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:555802.5/22

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 1392455.1/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:376593.7/20

Left: 0.011+/-0.000 $\chi^2$/NDF: 932400.2/43

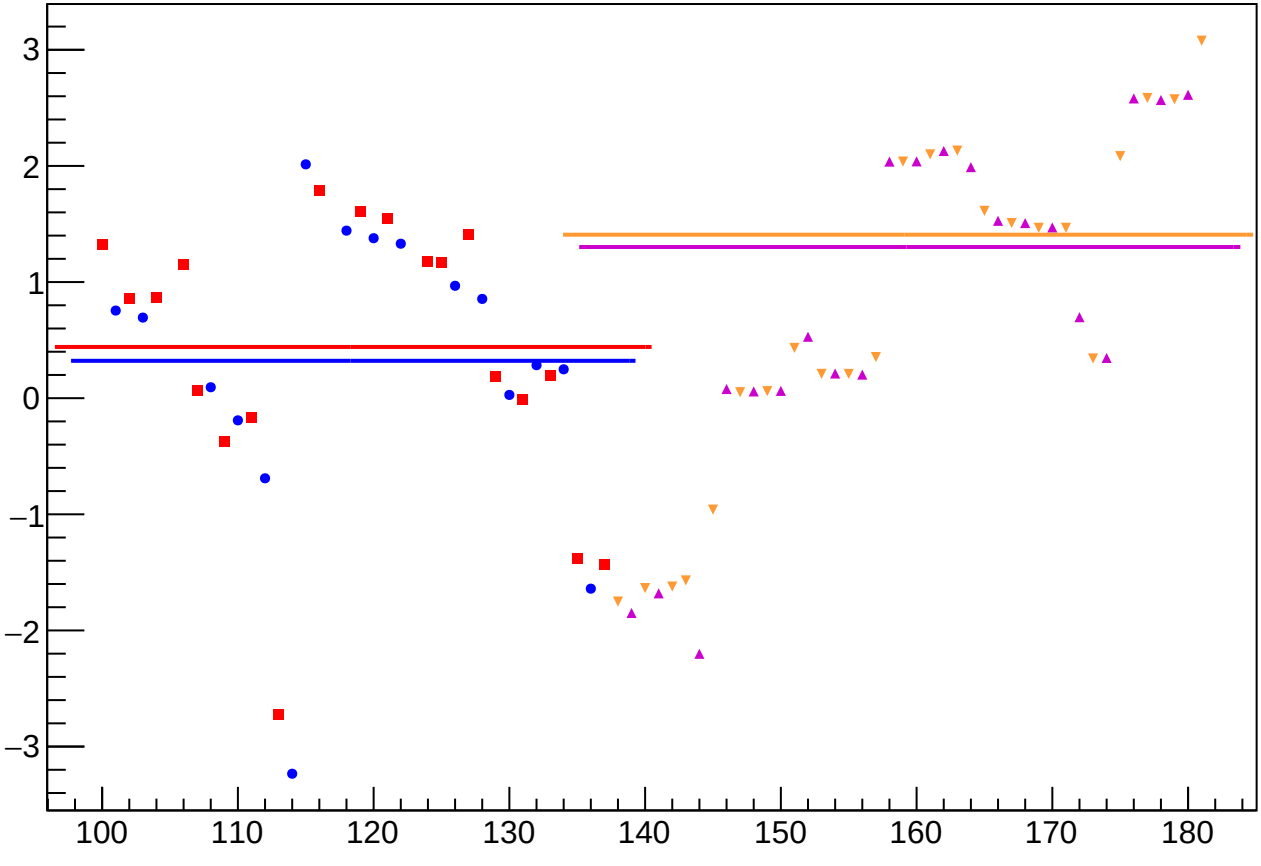
Right: 0.012+/-0.000 $\chi^2$/NDF: 2866610.3/34

In: 0.011+/-0.000 $\chi^2$/NDF:1952649.9/36

Out: 0.011+/-0.000 $\chi^2$/NDF:2180922.4/41

All: 0.011+/-0.000 $\chi^2$/NDF: 4135574.7/78

# yield_bpm1X_mean vs Slug, Sign Corrected




Right In: 0.322+/-0.000 $\chi^2$/NDF: 1664983742.5/15

Left Out: 1.408+/-0.000 $\chi^2$/NDF:58161494742.5/22

Right Out: 0.441+/-0.000 $\chi^2$/NDF: 1796703168.4/18

Left In: 1.302+/-0.000 $\chi^2$/NDF:55786044795.1/20

Left: 1.354+/-0.000 $\chi^2$/NDF: 114268530476.2/43

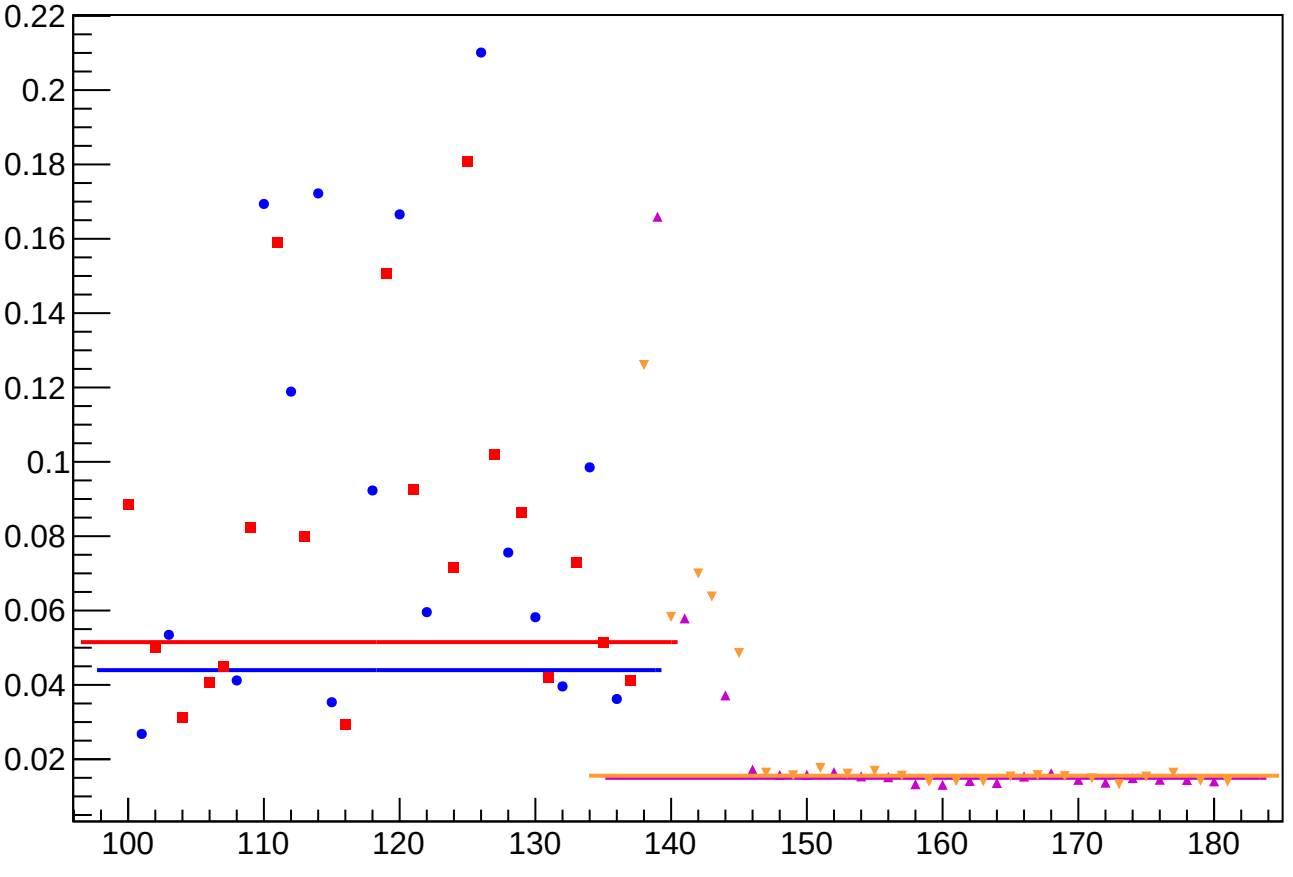
Right: 0.376+/-0.000 $\chi^2$/NDF: 3474475474.1/34

In: 1.269+/-0.000 $\chi^2$/NDF:59293376805.4/36

Out: 1.380+/-0.000 $\chi^2$/NDF:61452925827.0/41

All: 1.324+/-0.000 $\chi^2$/NDF: 121110848765.7

# yield_bpm1X_rms vs Slug, Sign Corrected




Right In: 0.044+/-0.000 $\chi^2$/NDF: 2787474.8/15

Left Out: 0.016+/-0.000 $\chi^2$/NDF:2982678.2/22

Right Out: 0.052+/-0.000 $\chi^2$/NDF: 2367478.8/18

Left In: 0.015+/-0.000 $\chi^2$/NDF:2181918.9/20

Left: 0.015+/-0.000 $\chi^2$/NDF: 5183112.3/43

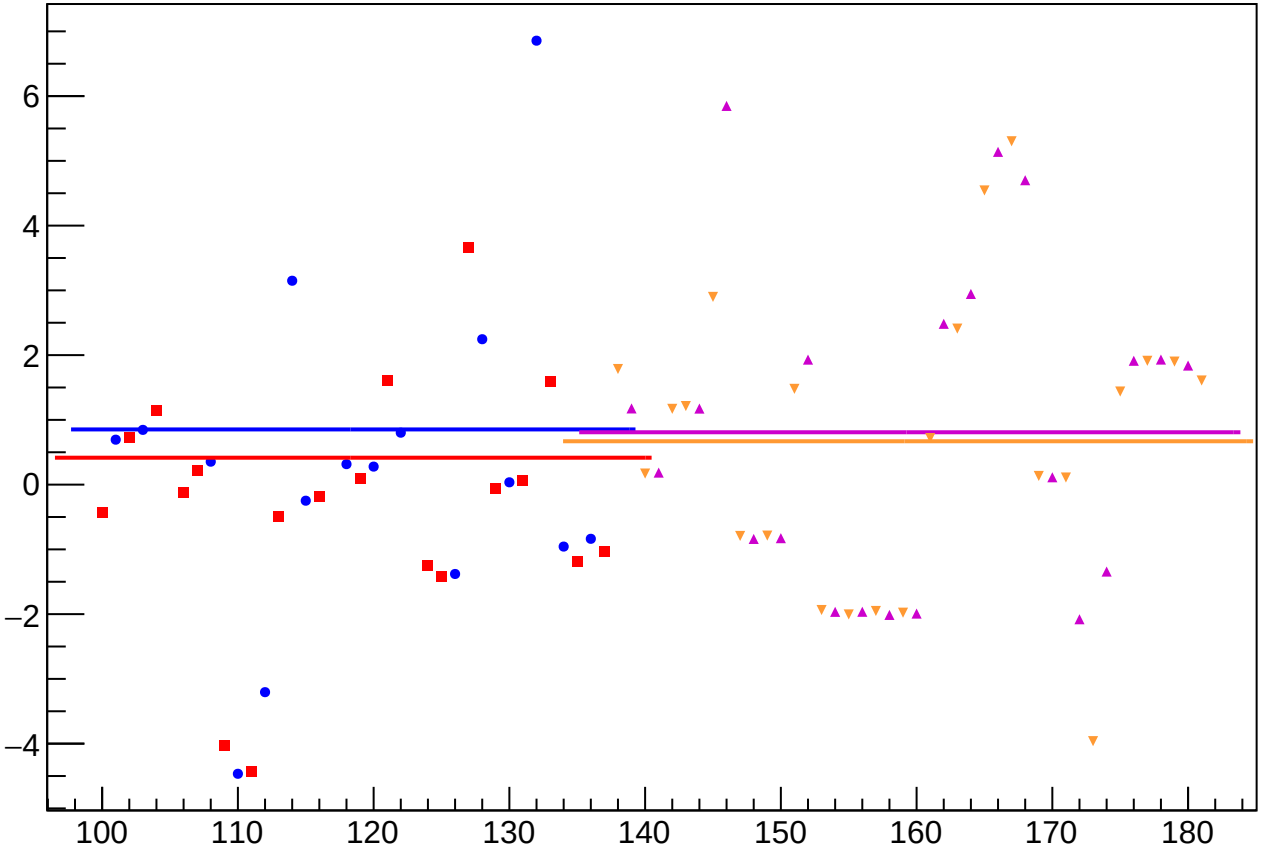
Right: 0.047+/-0.000 $\chi^2$/NDF: 5257025.7/34

In: 0.016+/-0.000 $\chi^2$/NDF:8190374.2/36

Out: 0.017+/-0.000 $\chi^2$/NDF:9480672.3/41

All: 0.016+/-0.000 $\chi^2$/NDF: 17693938.8/78

# yield_bpm1Y_mean vs Slug, Sign Corrected




Right In: 0.852+/-0.000 $\chi^2$/NDF: 11576037687.7/15

Left Out: 0.670+/-0.000 $\chi^2$/NDF:530126115301.9/22

Right Out: 0.416+/-0.000 $\chi^2$/NDF: 5121892038.7/18

Left In: 0.809+/-0.000 $\chi^2$/NDF:615352075890.6/20

Left: 0.739+/-0.000 $\chi^2$/NDF: 1146366213089.6/43

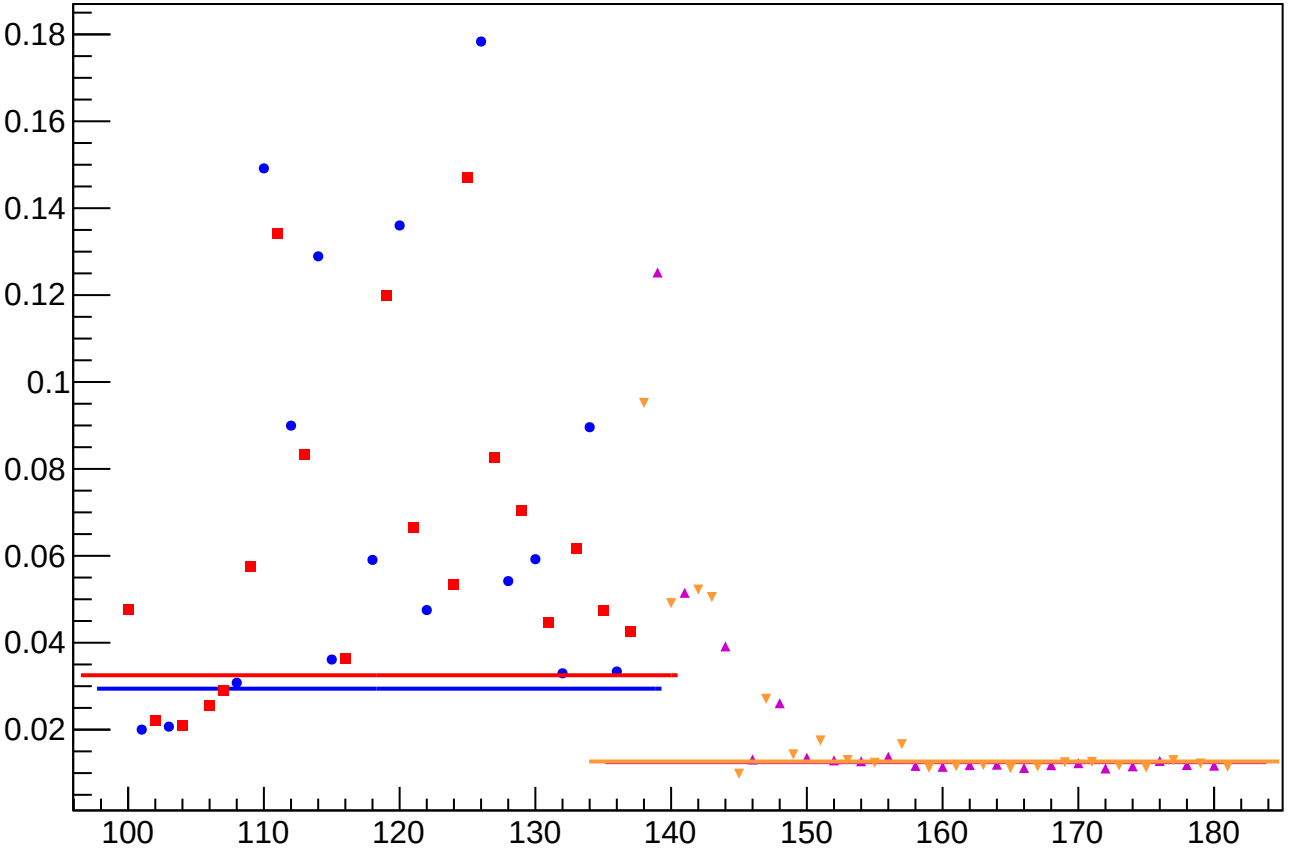
Right: 0.644+/-0.000 $\chi^2$/NDF: 17086077865.4/34

In: 0.811+/-0.000 $\chi^2$/NDF:626935895136.6/36

Out: 0.659+/-0.000 $\chi^2$/NDF:535489128244.2/41

All: 0.735+/-0.000 $\chi^2$/NDF: 1163523073501.

# yield_bpm1Y_rms vs Slug, Sign Corrected




Right In: 0.029+/-0.000 $\chi^2$/NDF: 3192424.8/15

Left Out: 0.013+/-0.000 $\chi^2$/NDF:3185865.1/22

Right Out: 0.033+/-0.000 $\chi^2$/NDF: 3315430.7/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:2748867.6/20

Left: 0.013+/-0.000 $\chi^2$/NDF: 5936857.0/43

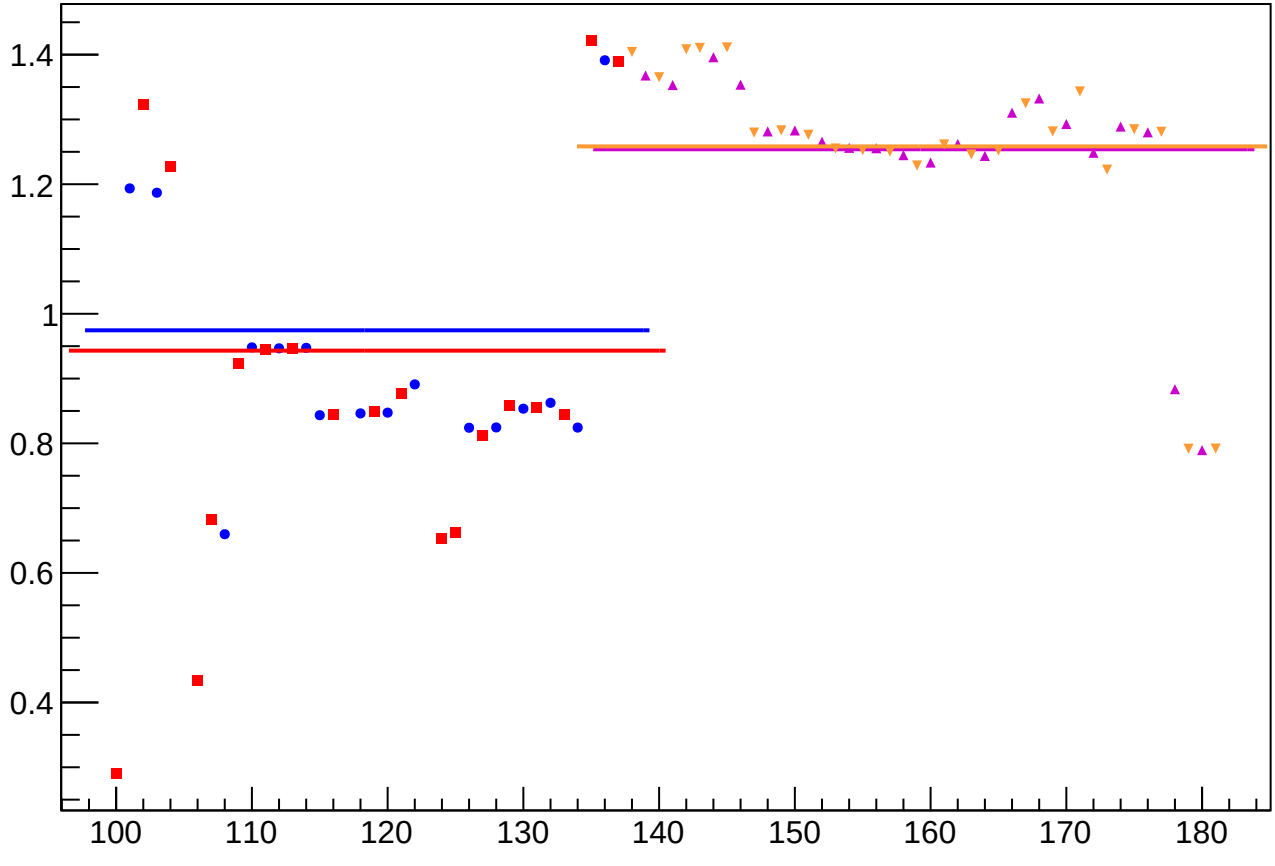
Right: 0.031+/-0.000 $\chi^2$/NDF: 6546669.2/34

In: 0.013+/-0.000 $\chi^2$/NDF:8269726.0/36

Out: 0.013+/-0.000 $\chi^2$/NDF:9451039.5/41

All: 0.013+/-0.000 $\chi^2$/NDF: 17724794.9/78

# yield_bpm11X_mean vs Slug, Sign Corrected




Right In: 0.974+/-0.000 $\chi^2$/NDF: 1458735246.5/15

Left Out: 1.258+/-0.000 $\chi^2$/NDF:2047705628.4/22

Right Out: 0.943+/-0.000 $\chi^2$/NDF: 1670579900.3/18

Left In: 1.254+/-0.000 $\chi^2$/NDF:1568467431.5/20

Left: 1.256+/-0.000 $\chi^2$/NDF: 3616980002.7/43

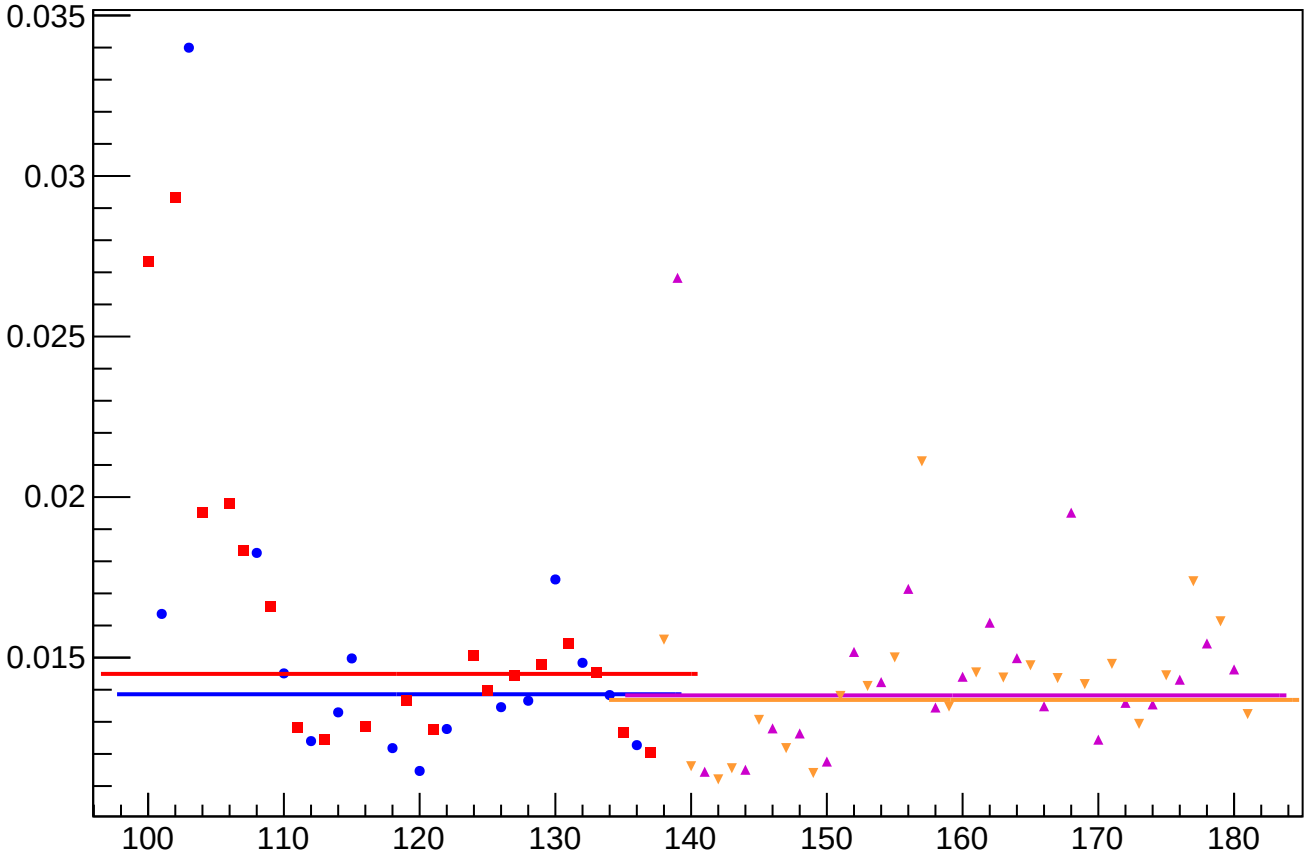
Right: 0.959+/-0.000 $\chi^2$/NDF: 3144762694.7/34

In: 1.173+/-0.000 $\chi^2$/NDF:4825101154.8/36

Out: 1.175+/-0.000 $\chi^2$/NDF:5953064559.1/41

All: 1.174+/-0.000 $\chi^2$/NDF: 10778416612.2/7

# yield_bpm11X_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 599979.5/15

Left Out: 0.014+/-0.000 $\chi^2$/NDF:541749.9/22

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 544337.7/18

Left In: 0.014+/-0.000 $\chi^2$/NDF:867831.1/20

Left: 0.014+/-0.000 $\chi^2$/NDF: 1411221.5/43

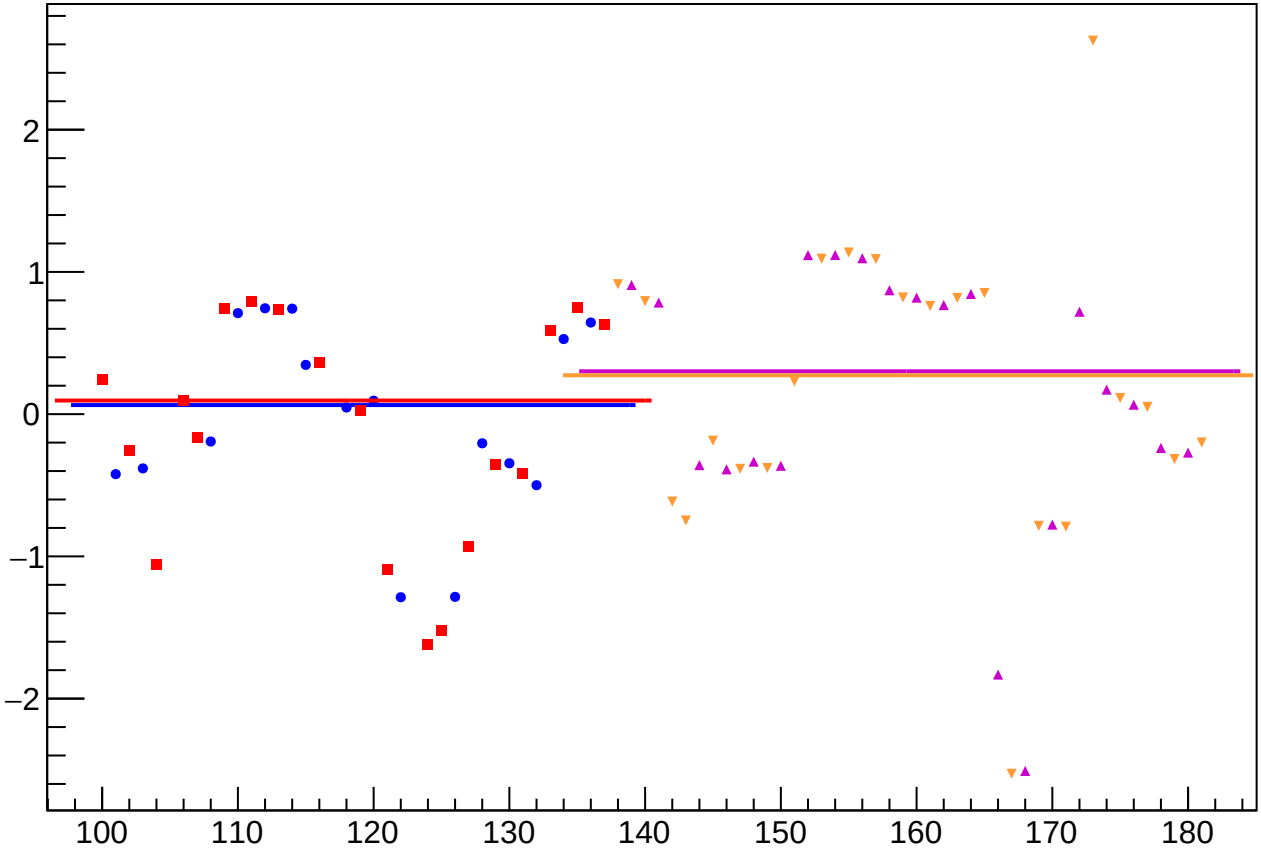
Right: 0.014+/-0.000 $\chi^2$/NDF: 1156942.1/34

In: 0.014+/-0.000 $\chi^2$/NDF:1467867.6/36

Out: 0.014+/-0.000 $\chi^2$/NDF:1115604.3/41

All: 0.014+/-0.000 $\chi^2$/NDF: 2583912.0/78

# yield_bpm11Y_mean vs Slug, Sign Corrected




Right In: 0.064+/-0.000 $\chi^2$/NDF: 11035911379.4/15

Left Out: 0.273+/-0.000 $\chi^2$/NDF:103521184643.5/22

Right Out: 0.096+/-0.000 $\chi^2$/NDF: 17784850774.3/18

Left In: 0.301+/-0.000 $\chi^2$/NDF:88520145099.3/20

Left: 0.287+/-0.000 $\chi^2$/NDF: 192085016189.3/43

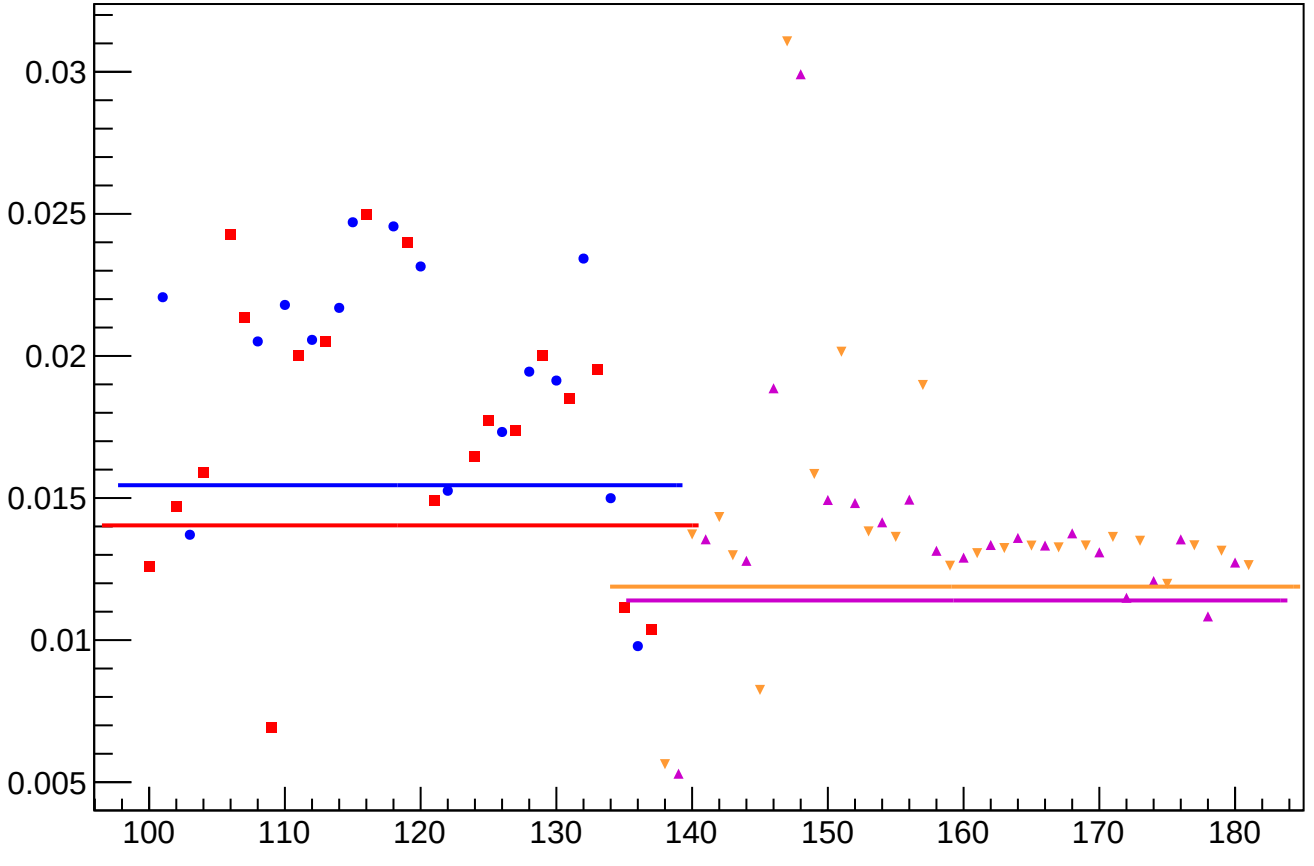
Right: 0.081+/-0.000 $\chi^2$/NDF: 28834701842.2/34

In: 0.258+/-0.000 $\chi^2$/NDF:100714422751.6/36

Out: 0.236+/-0.000 $\chi^2$/NDF:122048630724.4/41

All: 0.247+/-0.000 $\chi^2$/NDF: 222795909560.9

# yield_bpm11Y_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 1293711.1/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:3244788.6/22

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 1686554.4/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:3633412.1/20

Left: 0.012+/-0.000 $\chi^2$/NDF: 6904736.7/43

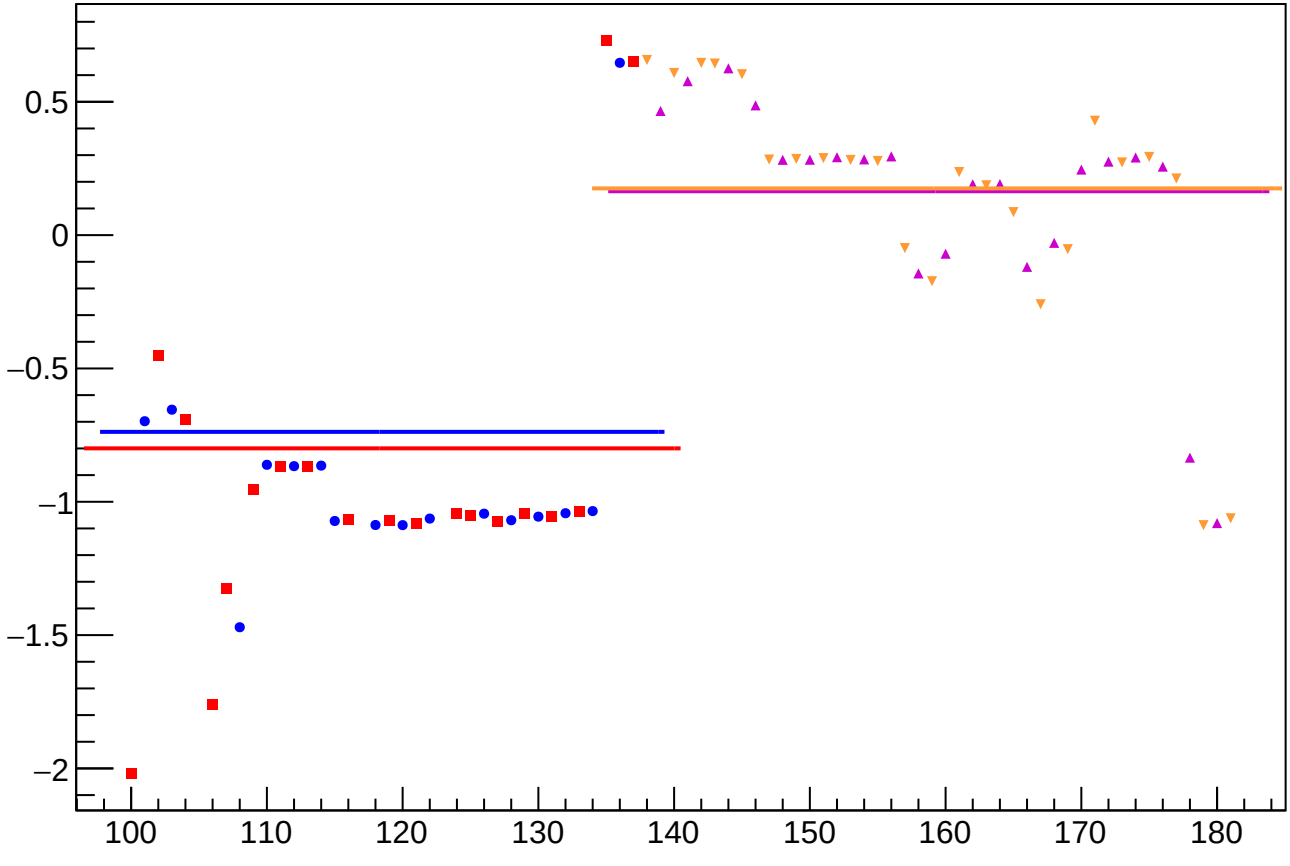
Right: 0.015+/-0.000 $\chi^2$/NDF: 3034802.2/34

In: 0.012+/-0.000 $\chi^2$/NDF:5602973.1/36

Out: 0.012+/-0.000 $\chi^2$/NDF:5150202.5/41

All: 0.012+/-0.000 $\chi^2$/NDF: 10758526.1/78

# yield_bpm12X_mean vs Slug, Sign Corrected




Right In: -0.738+/-0.000 $\chi^2$/NDF: 2072845802.4/15

Left Out: 0.175+/-0.000 $\chi^2$/NDF:2642367133.7/22

Right Out: -0.800+/-0.000 $\chi^2$/NDF: 1883862445.0/18

Left In: 0.165+/-0.000 $\chi^2$/NDF:2025584928.2/20

Left: 0.170+/-0.000 $\chi^2$/NDF: 4668637967.6/43

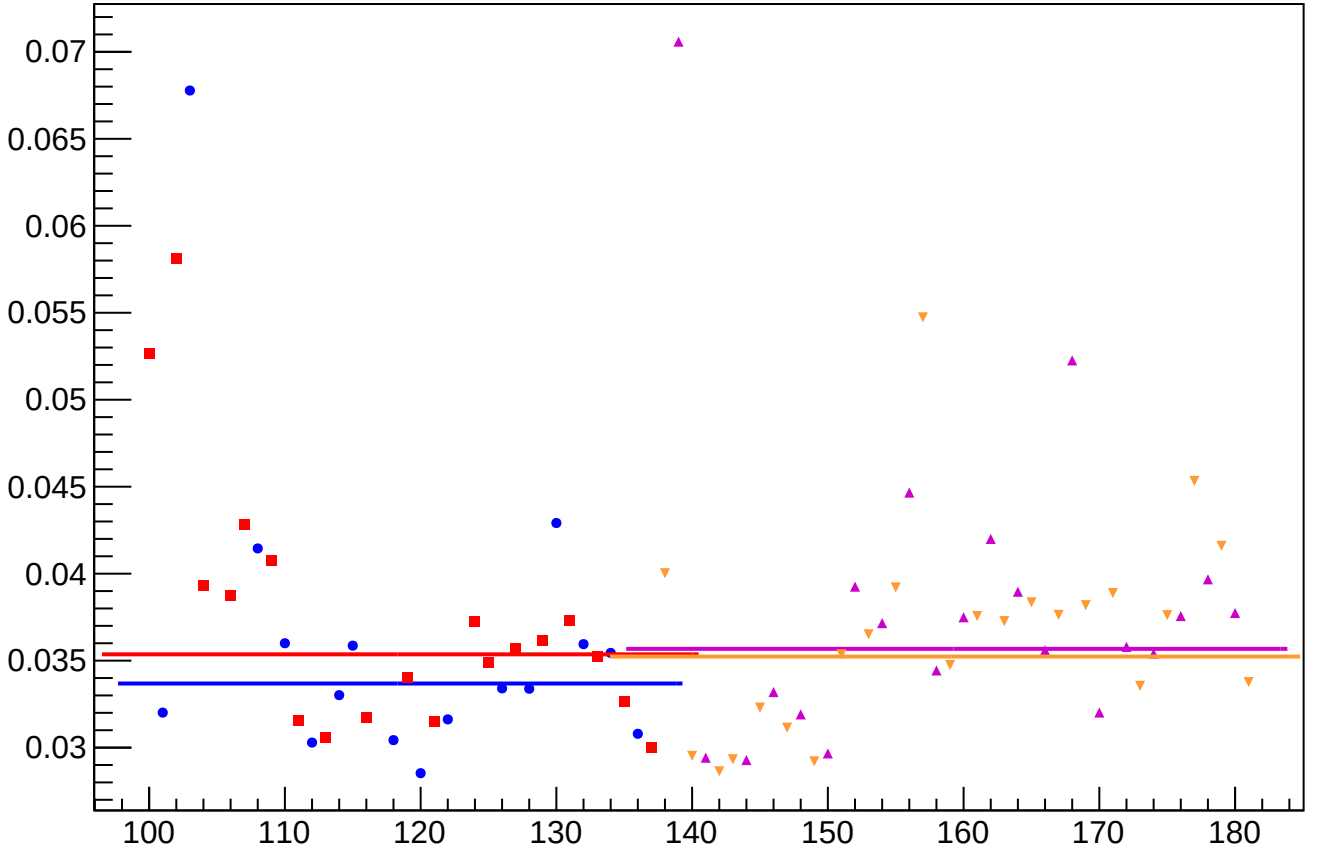
Right: -0.768+/-0.000 $\chi^2$/NDF: 3966960462.4/34

In: -0.123+/-0.000 $\chi^2$/NDF:7178586730.6/36

Out: -0.106+/-0.000 $\chi^2$/NDF:8023547868.6/41

All: -0.115+/-0.000 $\chi^2$/NDF: 15204797811.4/

# yield_bpm12X_rms vs Slug, Sign Corrected




Right In: 0.034+/-0.000 $\chi^2$/NDF: 420227.2/15

Left Out: 0.035+/-0.000 $\chi^2$/NDF:606278.3/22

Right Out: 0.035+/-0.000 $\chi^2$/NDF: 296353.9/18

Left In: 0.036+/-0.000 $\chi^2$/NDF:955103.5/20

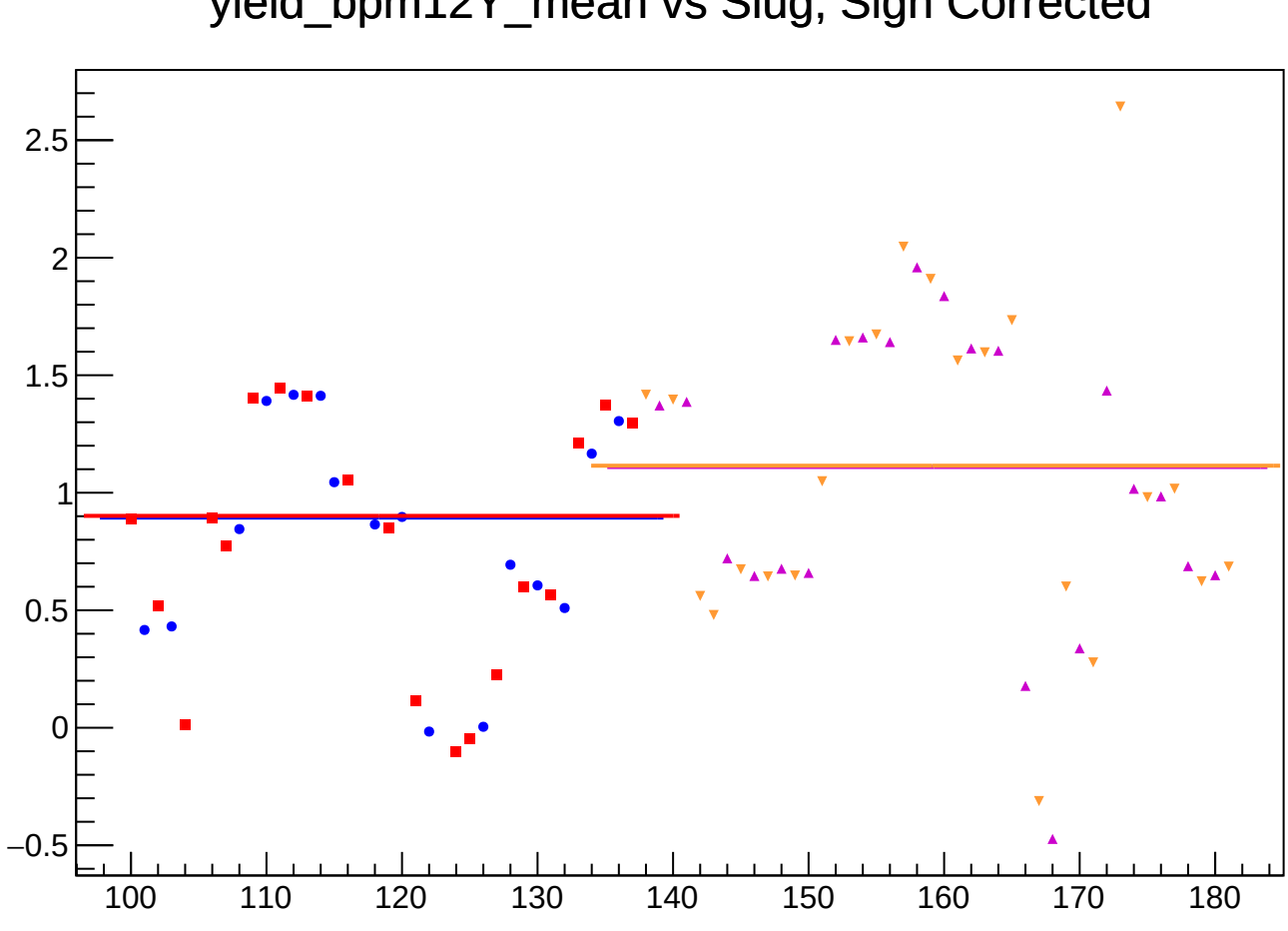
Left: 0.035+/-0.000 $\chi^2$/NDF: 1563798.8/43

Right: 0.034+/-0.000 $\chi^2$/NDF: 731644.4/34

In: 0.035+/-0.000 $\chi^2$/NDF:1405382.9/36

Out: 0.035+/-0.000 $\chi^2$/NDF:902751.4/41

All: 0.035+/-0.000 $\chi^2$/NDF: 2309062.7/78




Right In: 0.894+/-0.000 $\chi^2$/NDF: 12749707787.6/15

Left Out: 1.115+/-0.000 $\chi^2$/NDF:91199979017.8/22

Right Out: 0.902+/-0.000 $\chi^2$/NDF: 17893051843.7/18

Left In: 1.109+/-0.000 $\chi^2$/NDF:71281564505.8/20

Left: 1.112+/-0.000 $\chi^2$/NDF: 162484716988.2/43

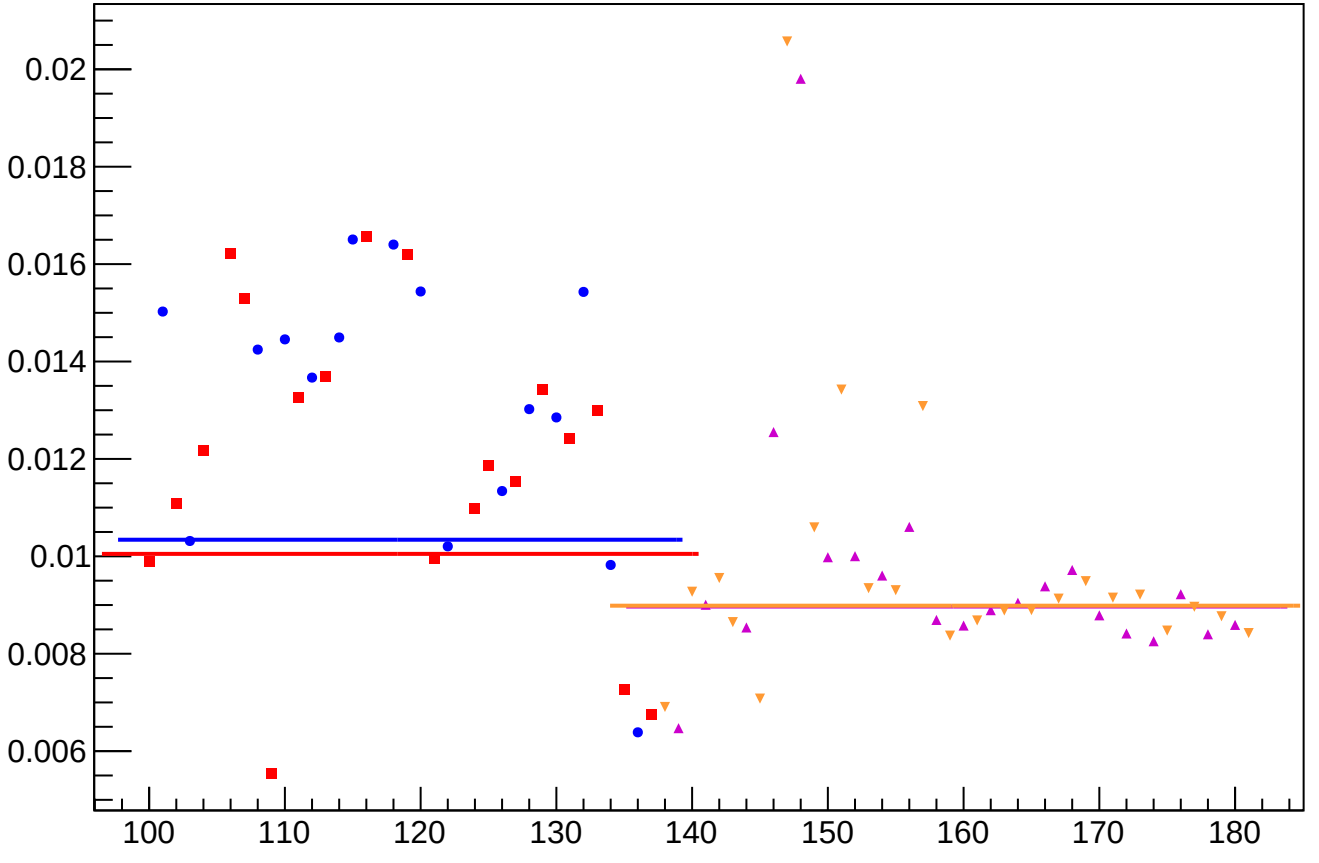
Right: 0.898+/-0.000 $\chi^2$/NDF: 30644277544.6/34

In: 1.062+/-0.000 $\chi^2$/NDF:86044208679.0/36

Out: 1.068+/-0.000 $\chi^2$/NDF:111228597408.2/41

All: 1.065+/-0.000 $\chi^2$/NDF: 197276731052.7

# yield_bpm12Y_rms vs Slug, Sign Corrected




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1350446.6/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:1144831.8/22

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 1336866.7/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:964138.0/20

Left: 0.009+/-0.000 $\chi^2$/NDF: 2109034.9/43

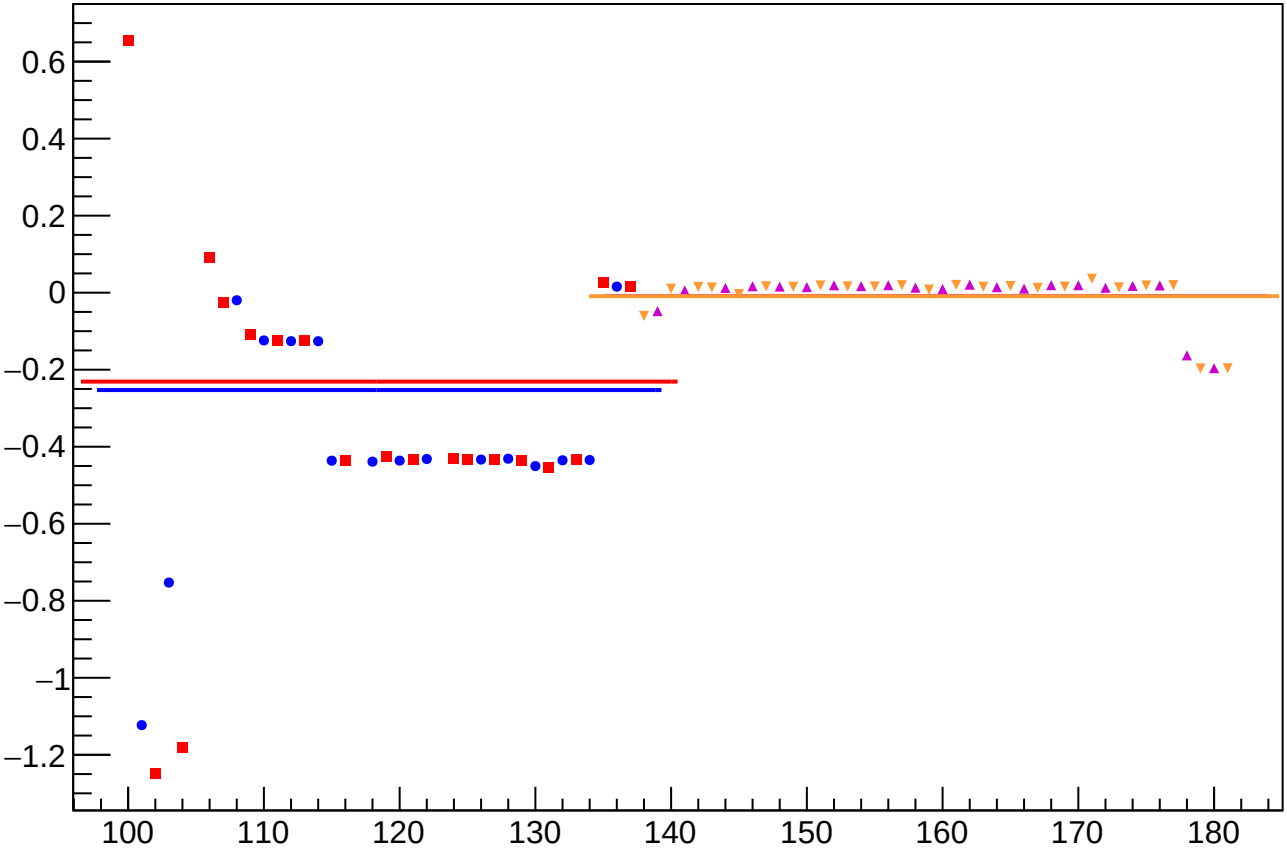
Right: 0.010+/-0.000 $\chi^2$/NDF: 2692207.1/34

In: 0.009+/-0.000 $\chi^2$/NDF:2478430.7/36

Out: 0.009+/-0.000 $\chi^2$/NDF:2587790.2/41

All: 0.009+/-0.000 $\chi^2$/NDF: 5066816.5/78

# yield_bpm16X_mean vs Slug, Sign Corrected




Right In: -0.253+/-0.000 $\chi^2$/NDF: 2025242410.1/15

Left Out: -0.009+/-0.000 $\chi^2$/NDF:745580254.7/22

Right Out: -0.231+/-0.000 $\chi^2$/NDF: 1808702536.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:641445529.7/20

Left: -0.009+/-0.000 $\chi^2$/NDF: 1387064250.3/43

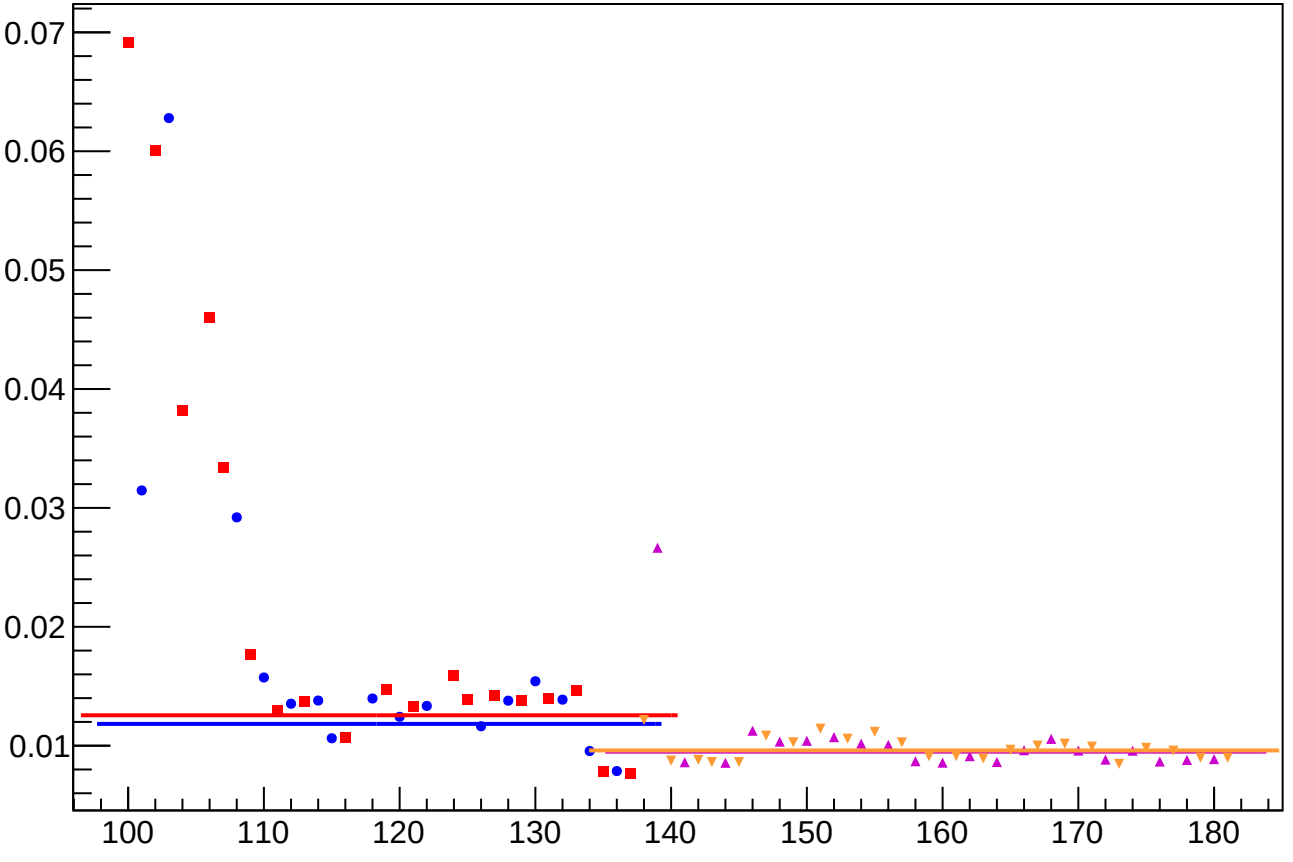
Right: -0.243+/-0.000 $\chi^2$/NDF: 3842049612.8/34

In: -0.053+/-0.000 $\chi^2$/NDF:4399505957.2/36

Out: -0.044+/-0.000 $\chi^2$/NDF:3866840941.3/41

All: -0.049+/-0.000 $\chi^2$/NDF: 8273921173.9/7

# yield_bpm16X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1942550.6/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:269830.3/22

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 2217419.3/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:900431.9/20

Left: 0.010+/-0.000 $\chi^2$/NDF: 1171968.7/43

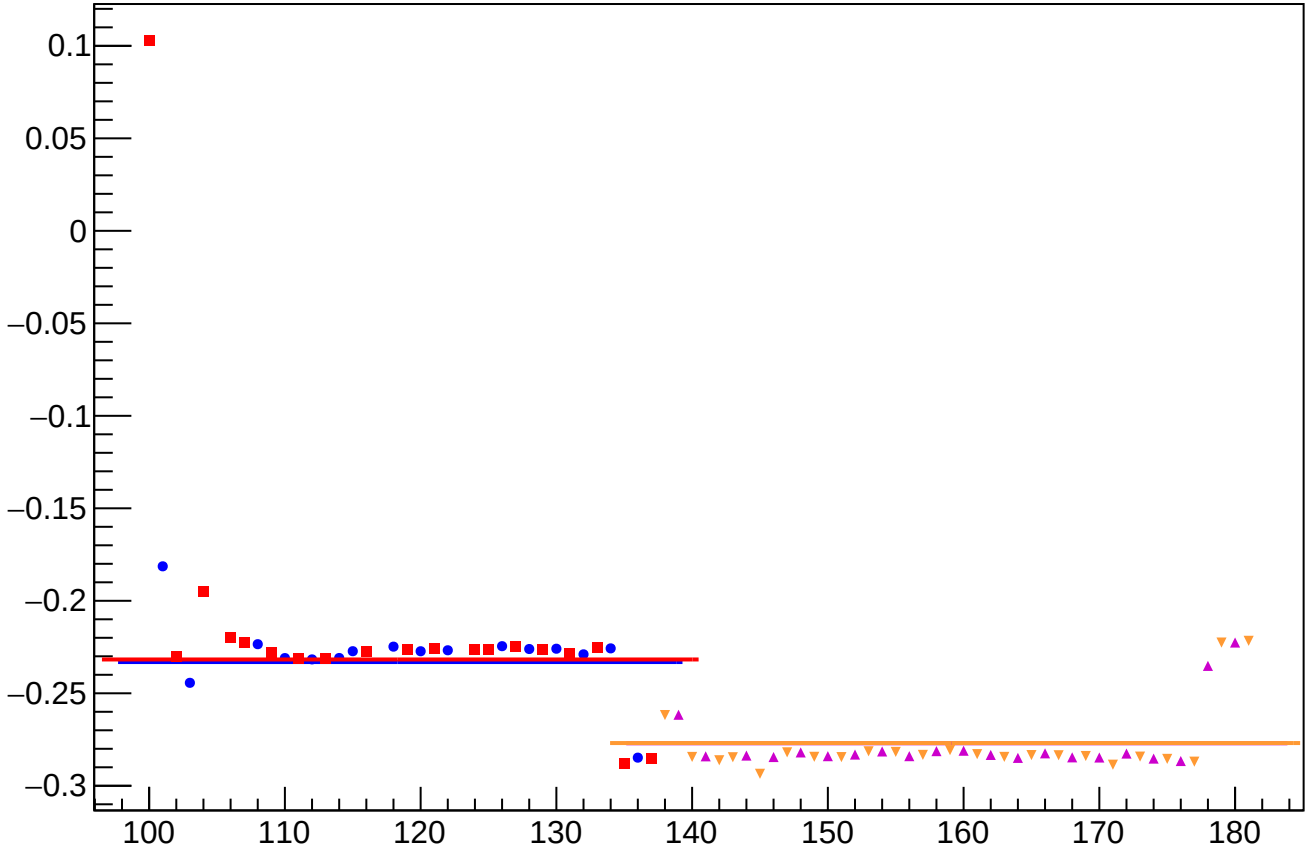
Right: 0.012+/-0.000 $\chi^2$/NDF: 4177625.3/34

In: 0.010+/-0.000 $\chi^2$/NDF:3159283.4/36

Out: 0.010+/-0.000 $\chi^2$/NDF:2954512.9/41

All: 0.010+/-0.000 $\chi^2$/NDF: 6117967.7/78

# yield_bpm16Y_mean vs Slug, Sign Corrected




Right In: -0.233+/-0.000 $\chi^2$/NDF: 199059878.3/15

Left Out: -0.277+/-0.000 $\chi^2$/NDF:279740537.9/22

Right Out: -0.232+/-0.000 $\chi^2$/NDF: 287244778.7/18

Left In: -0.277+/-0.000 $\chi^2$/NDF:190010075.4/20

Left: -0.277+/-0.000 $\chi^2$/NDF: 469755403.1/43

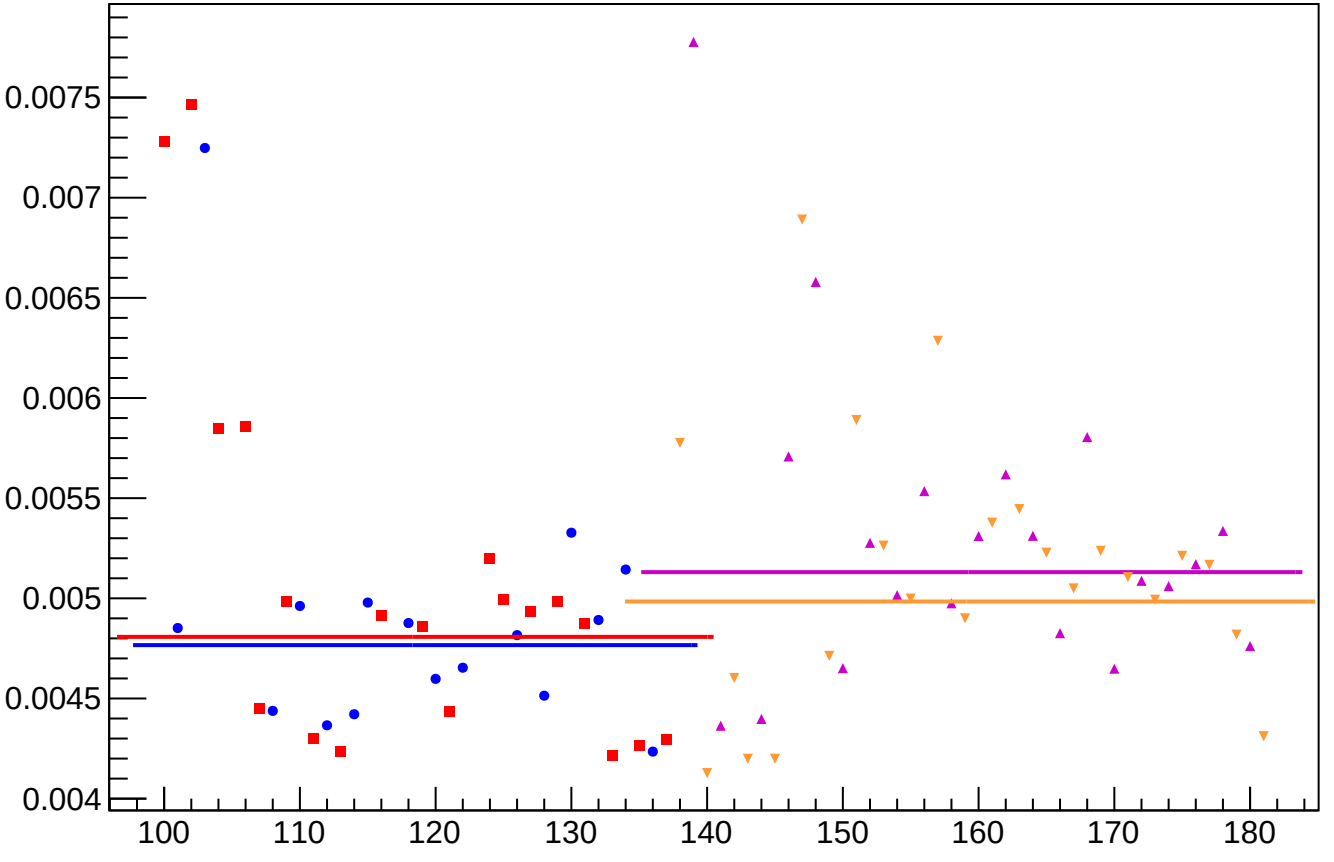
Right: -0.232+/-0.000 $\chi^2$/NDF: 486580881.0/34

In: -0.263+/-0.000 $\chi^2$/NDF:762902507.3/36

Out: -0.263+/-0.000 $\chi^2$/NDF:983518661.2/41

All: -0.263+/-0.000 $\chi^2$/NDF: 1746479505.5/7

# yield_bpm16Y_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 191759.7/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:504740.5/22

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 293738.0/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:477074.1/20

Left: 0.005+/-0.000 $\chi^2$/NDF: 995775.9/43

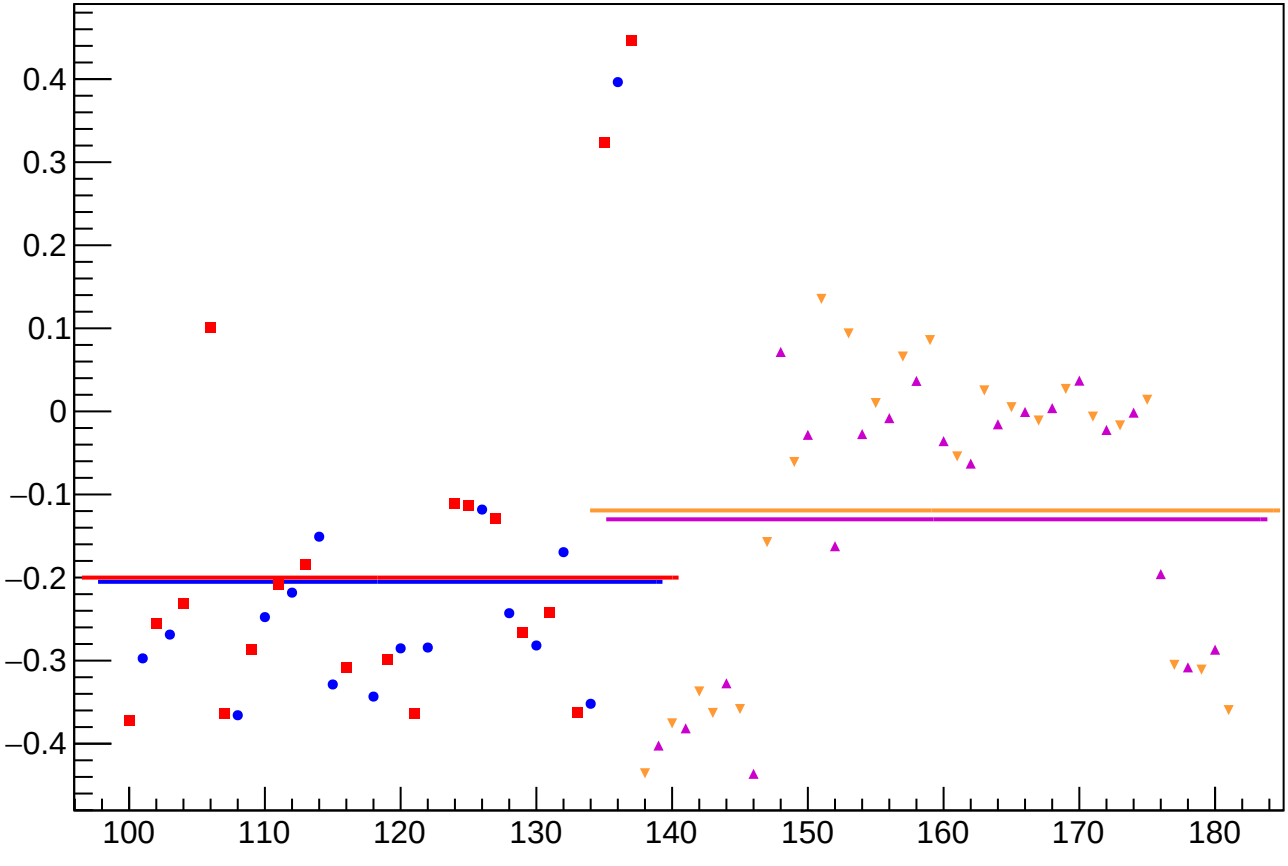
Right: 0.005+/-0.000 $\chi^2$/NDF: 485985.9/34

In: 0.005+/-0.000 $\chi^2$/NDF:720327.7/36

Out: 0.005+/-0.000 $\chi^2$/NDF:811186.9/41

All: 0.005+/-0.000 $\chi^2$/NDF: 1538101.9/78

# yield_bpm0i02X_mean vs Slug, Sign Corrected




Right In: -0.205+/-0.000 $\chi^2$/NDF: 6189271855.3/15

Left Out: -0.119+/-0.000 $\chi^2$/NDF:19939038478.8/22

Right Out: -0.200+/-0.000 $\chi^2$/NDF: 5249978819.5/18

Left In: -0.130+/-0.000 $\chi^2$/NDF:14054521466.2/20

Left: -0.124+/-0.000 $\chi^2$/NDF: 34024973149.9/43

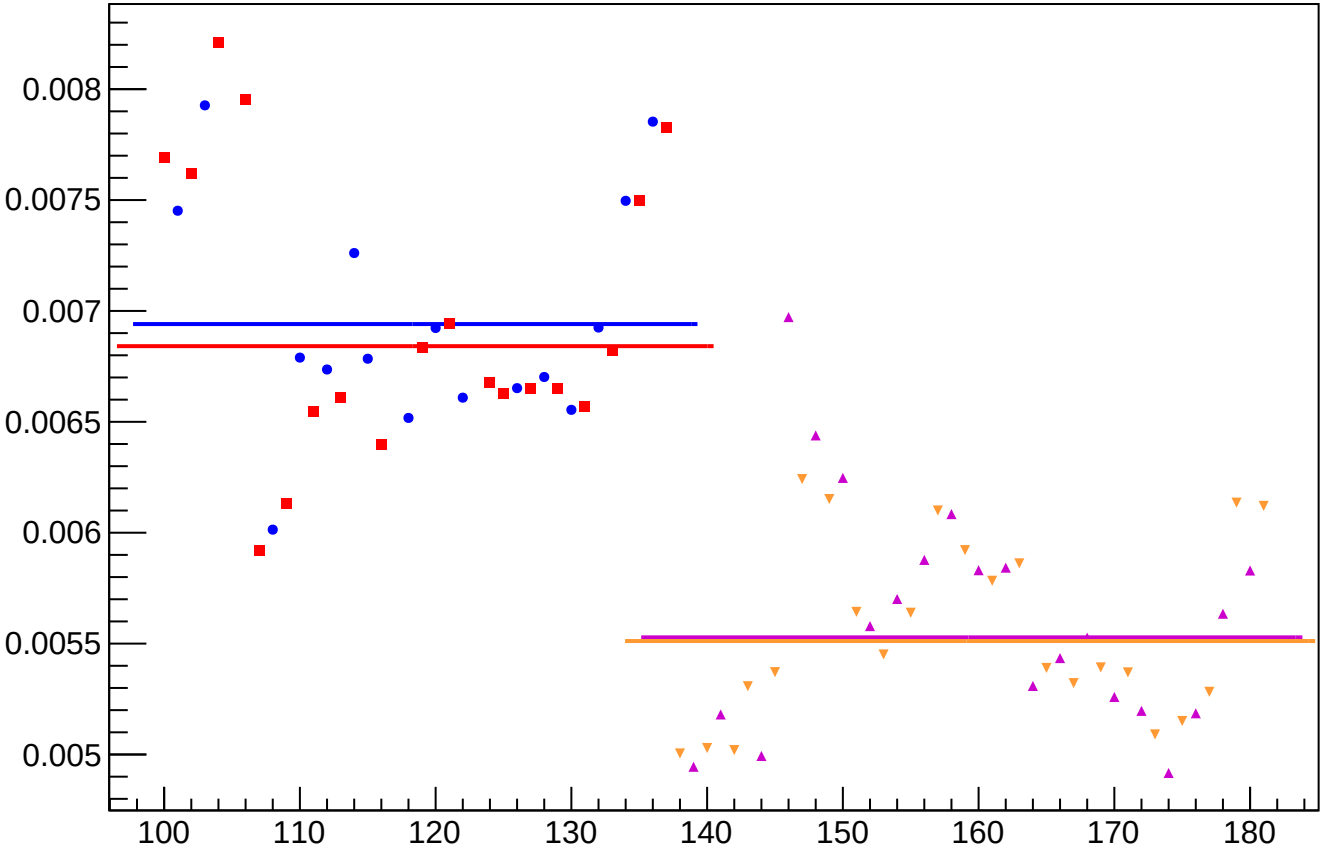
Right: -0.203+/-0.000 $\chi^2$/NDF: 11441176033.3/34

In: -0.146+/-0.000 $\chi^2$/NDF:20891772712.6/36

Out: -0.136+/-0.000 $\chi^2$/NDF:25982240708.5/41

All: -0.141+/-0.000 $\chi^2$/NDF: 46907169266.1/

# yield_bpm0i02X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 85159.0/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:169511.8/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 99819.4/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:241036.1/20

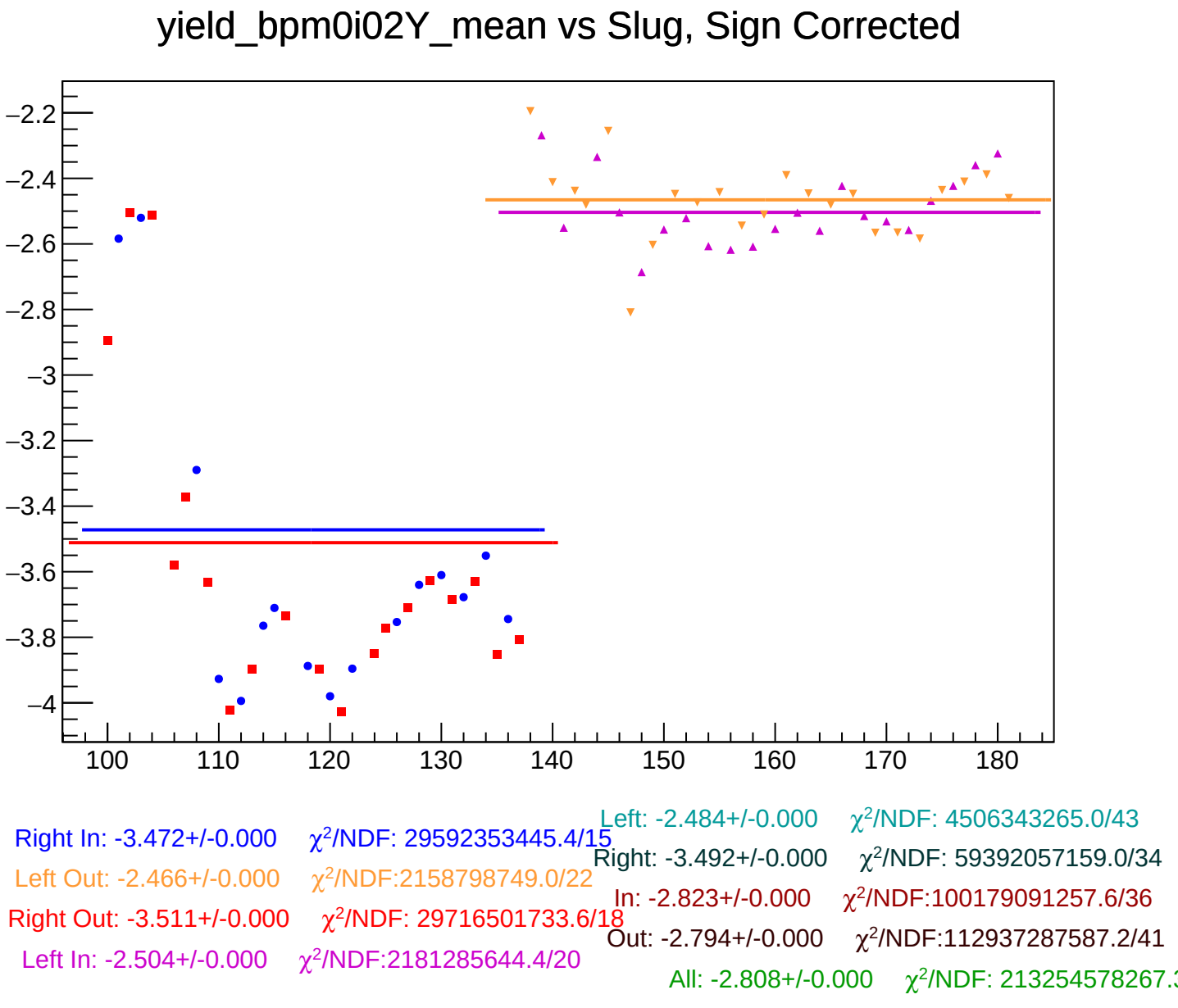
Left: 0.006+/-0.000 $\chi^2$/NDF: 410698.9/43

Right: 0.007+/-0.000 $\chi^2$/NDF: 186467.2/34

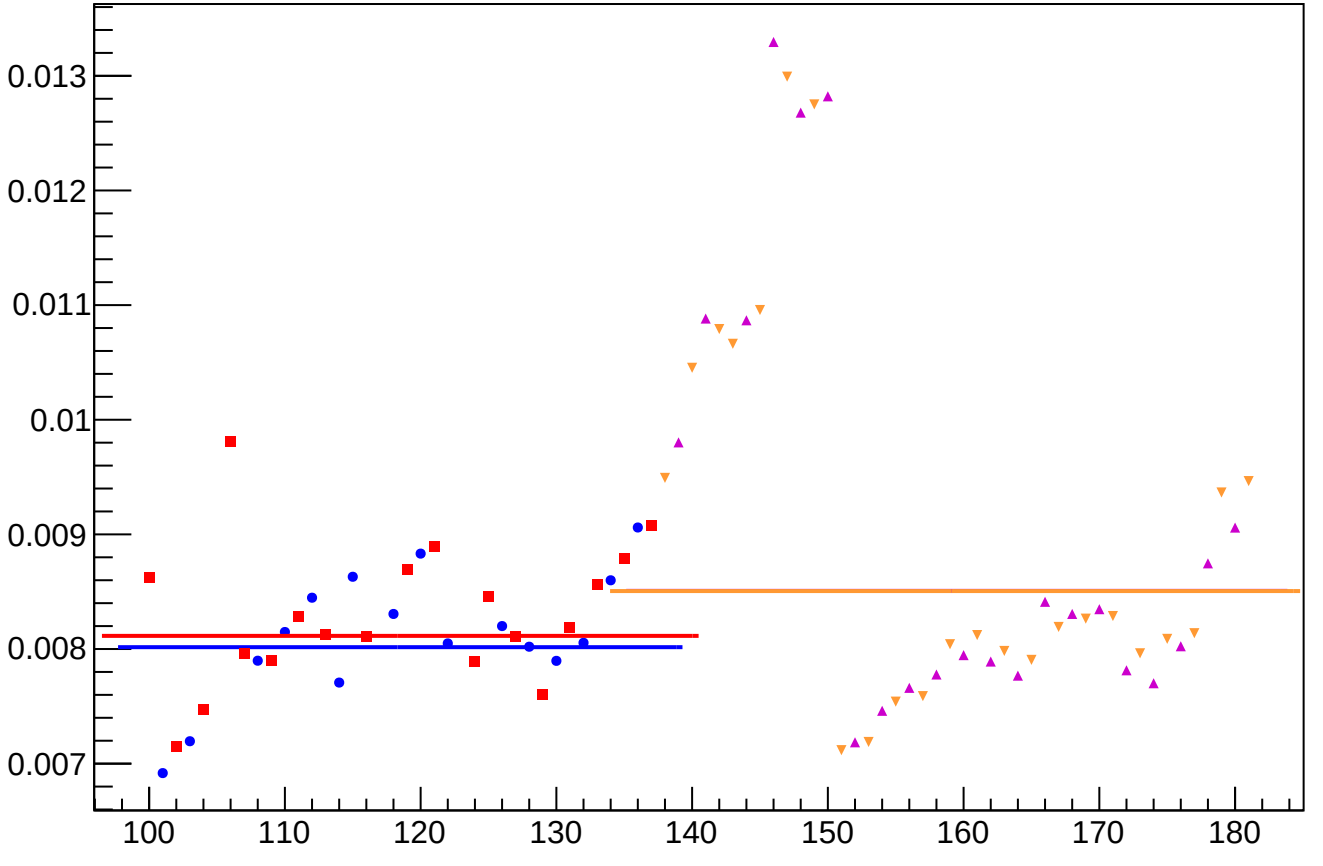
In: 0.006+/-0.000 $\chi^2$/NDF:783297.0/36

Out: 0.006+/-0.000 $\chi^2$/NDF:698518.3/41

All: 0.006+/-0.000 $\chi^2$/NDF: 1482865.5/78


yield_bpm0i02Y_mean vs Slug, Sign Corrected
−2.2
−2.4
−2.6
−2.8
−3
−3.2
−3.4
−3.6
−3.8
−4
100
110
120
130
140
150
160
170
180
Right In: -3.472+/-0.000 χ²/NDF: 29592353445.4/15
Left Out: -2.466+/-0.000 χ²/NDF:2158798749.0/22
Right Out: -3.511+/-0.000 χ²/NDF: 29716501733.6/18
Left In: -2.504+/-0.000 χ²/NDF:2181285644.4/20
Left: -2.484+/-0.000 χ²/NDF: 4506343265.0/43
Right: -3.492+/-0.000 χ²/NDF: 59392057159.0/34
In: -2.823+/-0.000 χ²/NDF:100179091257.6/36
Out: -2.794+/-0.000 χ²/NDF:112937287587.2/41
All: -2.808+/-0.000 χ²/NDF: 213254578267.3

# yield_bpm0i02Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 86232.2/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:794266.8/22

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 71067.5/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:897143.0/20

Left: 0.009+/-0.000 $\chi^2$/NDF: 1691410.5/43

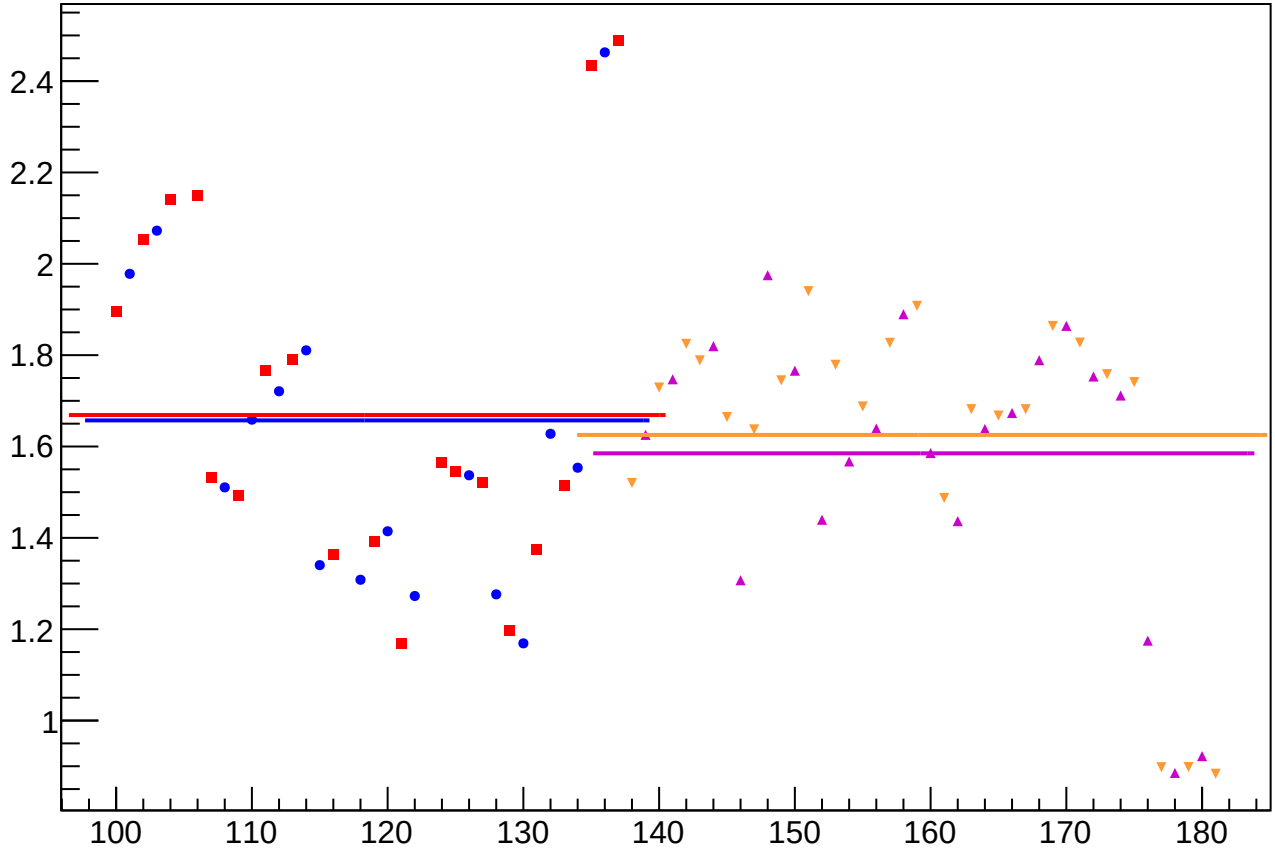
Right: 0.008+/-0.000 $\chi^2$/NDF: 158353.0/34

In: 0.008+/-0.000 $\chi^2$/NDF:1018567.2/36

Out: 0.008+/-0.000 $\chi^2$/NDF:887978.5/41

All: 0.008+/-0.000 $\chi^2$/NDF: 1907013.1/78

# yield_bpm0i02aX_mean vs Slug, Sign Corrected




Right In: 1.657+/-0.000 $\chi^2$/NDF: 6666154117.3/15

Left Out: 1.625+/-0.000 $\chi^2$/NDF:13360446048.0/22

Right Out: 1.669+/-0.000 $\chi^2$/NDF: 6357589265.5/18

Left In: 1.585+/-0.000 $\chi^2$/NDF:11171627412.0/20

Left: 1.606+/-0.000 $\chi^2$/NDF: 24641621547.7/43

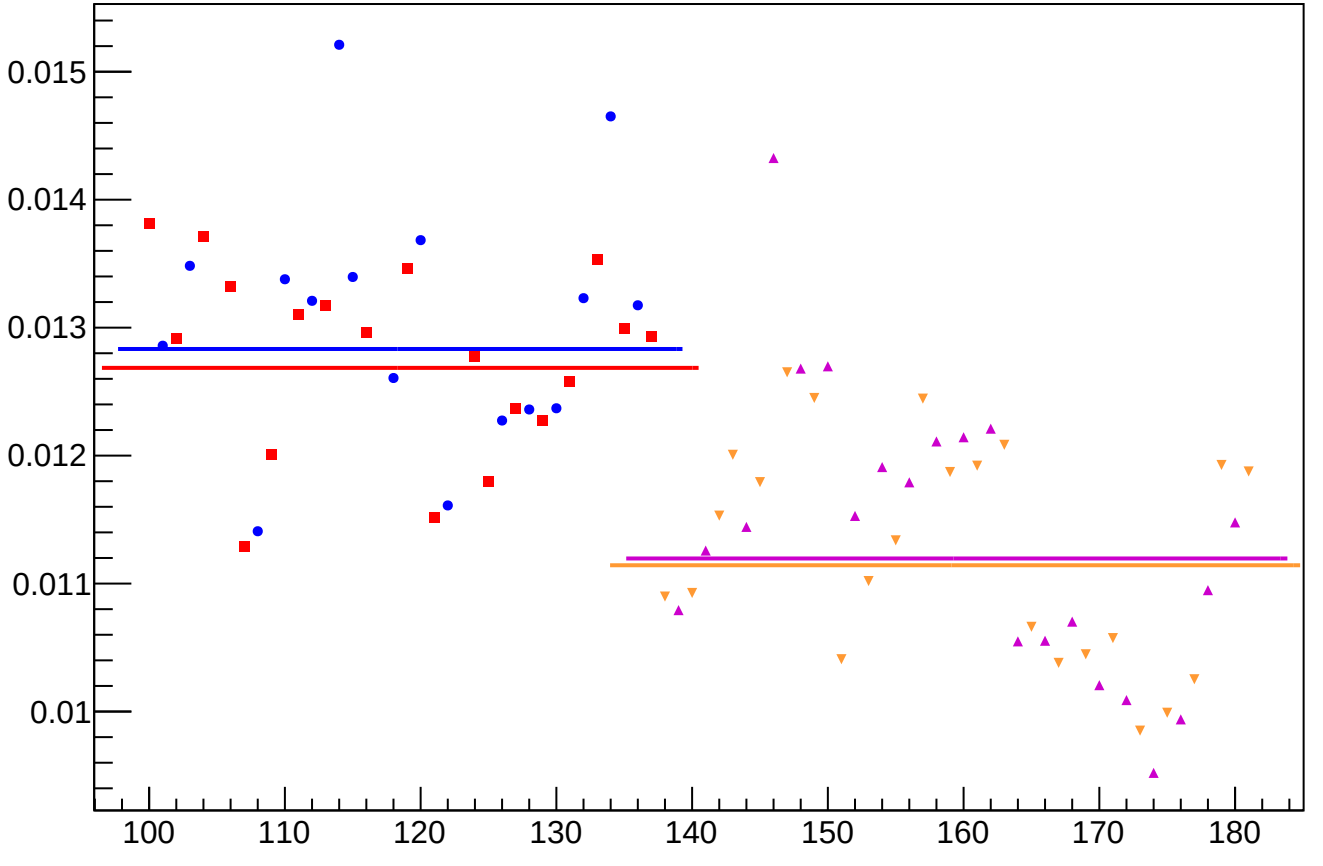
Right: 1.663+/-0.000 $\chi^2$/NDF: 13026763419.8/34

In: 1.603+/-0.000 $\chi^2$/NDF:18004658608.5/36

Out: 1.636+/-0.000 $\chi^2$/NDF:19782673490.9/41

All: 1.620+/-0.000 $\chi^2$/NDF: 37884695656.8/7

# yield_bpm0i02aX_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 52516.5/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:197839.5/22

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 43279.9/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:284256.1/20

Left: 0.011+/-0.000 $\chi^2$/NDF: 482474.3/43

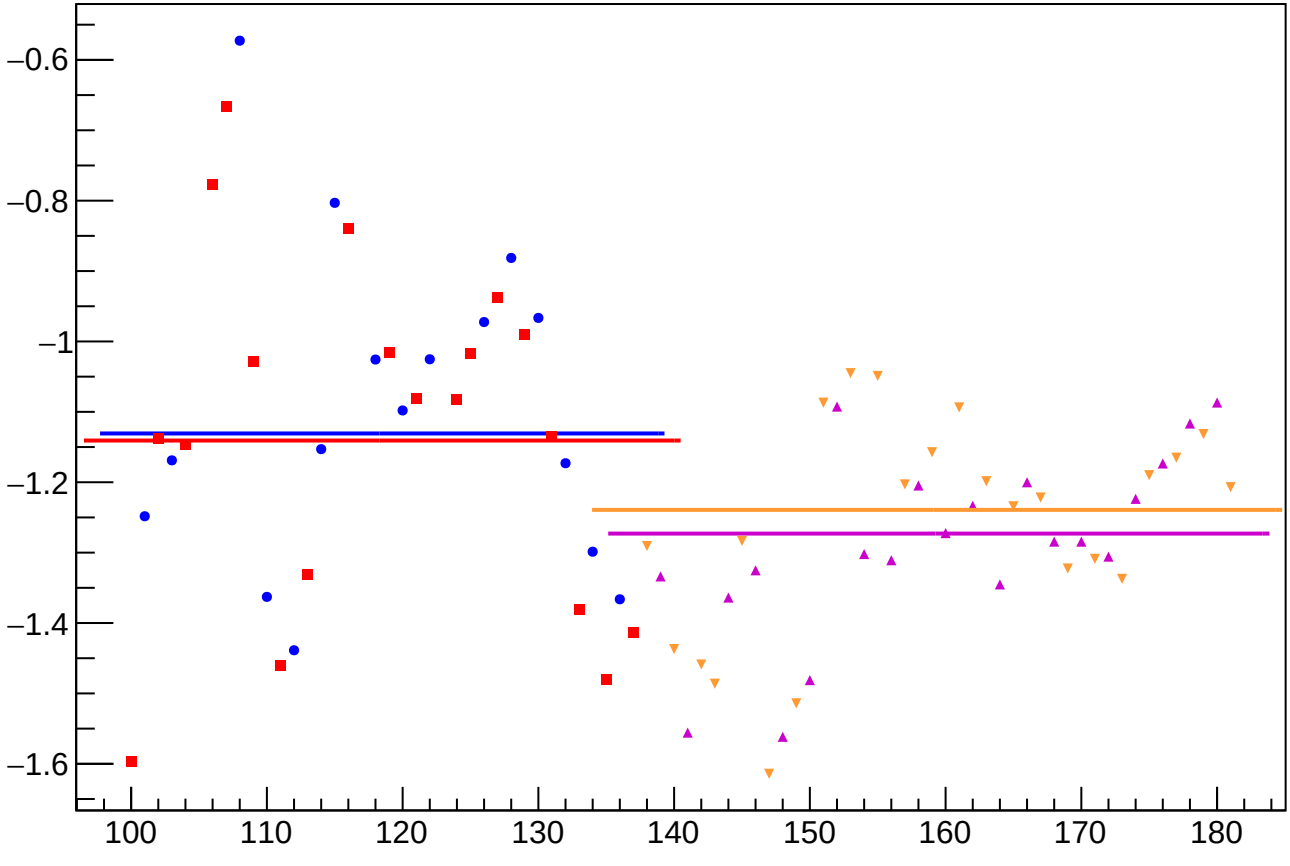
Right: 0.013+/-0.000 $\chi^2$/NDF: 96748.3/34

In: 0.012+/-0.000 $\chi^2$/NDF:508800.4/36

Out: 0.012+/-0.000 $\chi^2$/NDF:402900.9/41

All: 0.012+/-0.000 $\chi^2$/NDF: 912975.8/78

# yield_bpm0i02aY_mean vs Slug, Sign Corrected




Right In: -1.131+/-0.000 $\chi^2$/NDF: 3790121991.7/15

Left Out: -1.239+/-0.000 $\chi^2$/NDF:4928175402.4/22

Right Out: -1.141+/-0.000 $\chi^2$/NDF: 3544012262.4/18

Left In: -1.273+/-0.000 $\chi^2$/NDF:3495916003.7/20

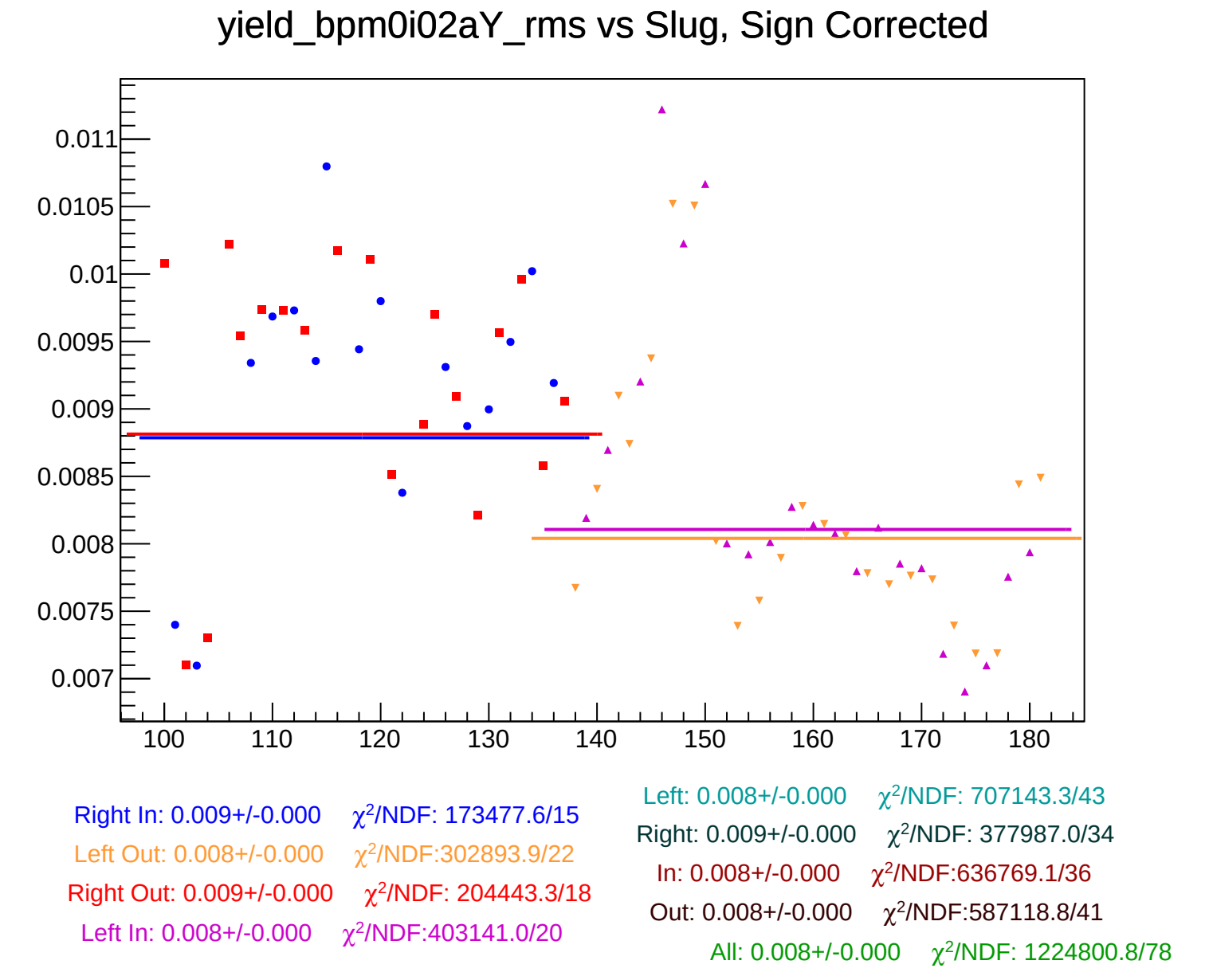
Left: -1.255+/-0.000 $\chi^2$/NDF: 8567930576.3/43

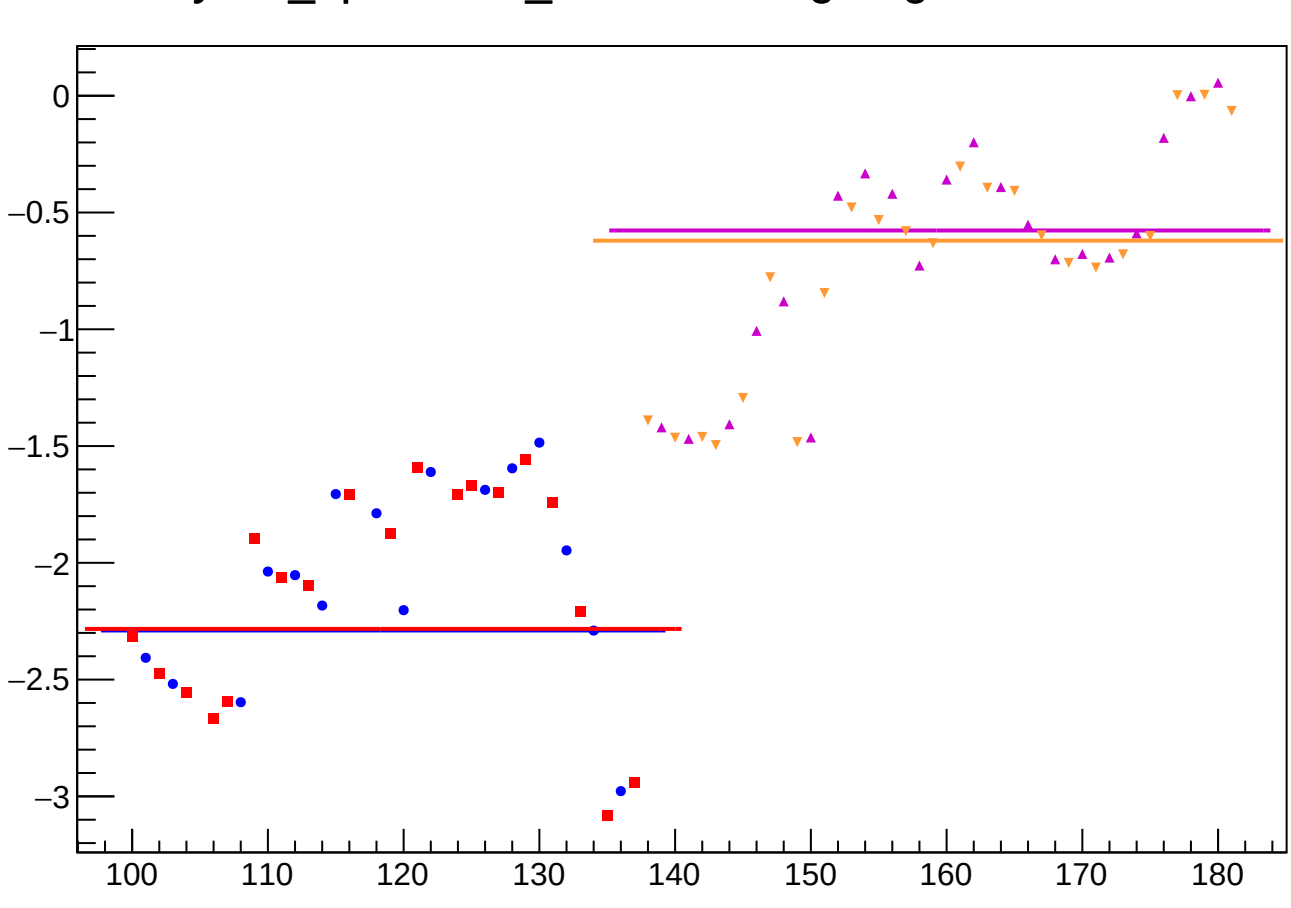
Right: -1.136+/-0.000 $\chi^2$/NDF: 7338628665.5/34

In: -1.235+/-0.000 $\chi^2$/NDF:8602401825.1/36

Out: -1.214+/-0.000 $\chi^2$/NDF:9119759188.0/41

All: -1.224+/-0.000 $\chi^2$/NDF: 17795672519.7/


yield_bpm0i02aY_rms vs Slug, Sign Corrected
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
100
110
120
130
140
150
160
170
180
Right In: 0.009+/-0.000 χ²/NDF: 173477.6/15
Left Out: 0.008+/-0.000 χ²/NDF:302893.9/22
Right Out: 0.009+/-0.000 χ²/NDF: 204443.3/18
Left In: 0.008+/-0.000 χ²/NDF:403141.0/20
Left: 0.008+/-0.000 χ²/NDF: 707143.3/43
Right: 0.009+/-0.000 χ²/NDF: 377987.0/34
In: 0.008+/-0.000 χ²/NDF:636769.1/36
Out: 0.008+/-0.000 χ²/NDF:587118.8/41
All: 0.008+/-0.000 χ²/NDF: 1224800.8/78




Right In: -2.290+/-0.000 $\chi^2$/NDF: 15222817978.4/15

Left Out: -0.621+/-0.000 $\chi^2$/NDF:65367697134.9/22

Right Out: -2.283+/-0.000 $\chi^2$/NDF: 17032219519.1/18

Left In: -0.577+/-0.000 $\chi^2$/NDF:61511033986.3/20

Left: -0.599+/-0.000 $\chi^2$/NDF: 127216361910.7/43

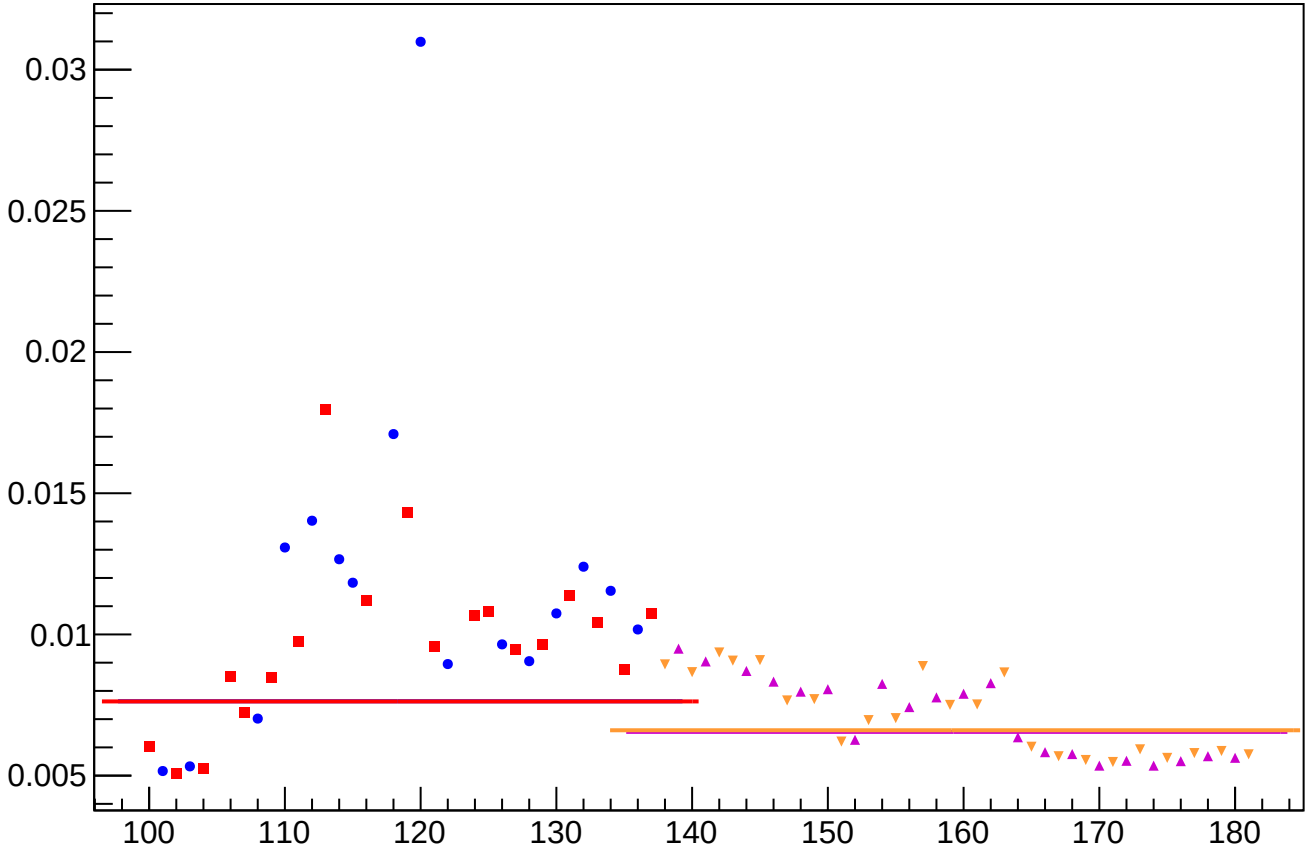
Right: -2.286+/-0.000 $\chi^2$/NDF: 32257076383.6/34

In: -0.921+/-0.000 $\chi^2$/NDF:281243083378.2/36

Out: -0.966+/-0.000 $\chi^2$/NDF:290953337045.6/41

All: -0.944+/-0.000 $\chi^2$/NDF: 572647464304.0

# yield_bpm0i05X_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1710797.2/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1058327.2/22

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 1317740.1/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:1145271.2/20

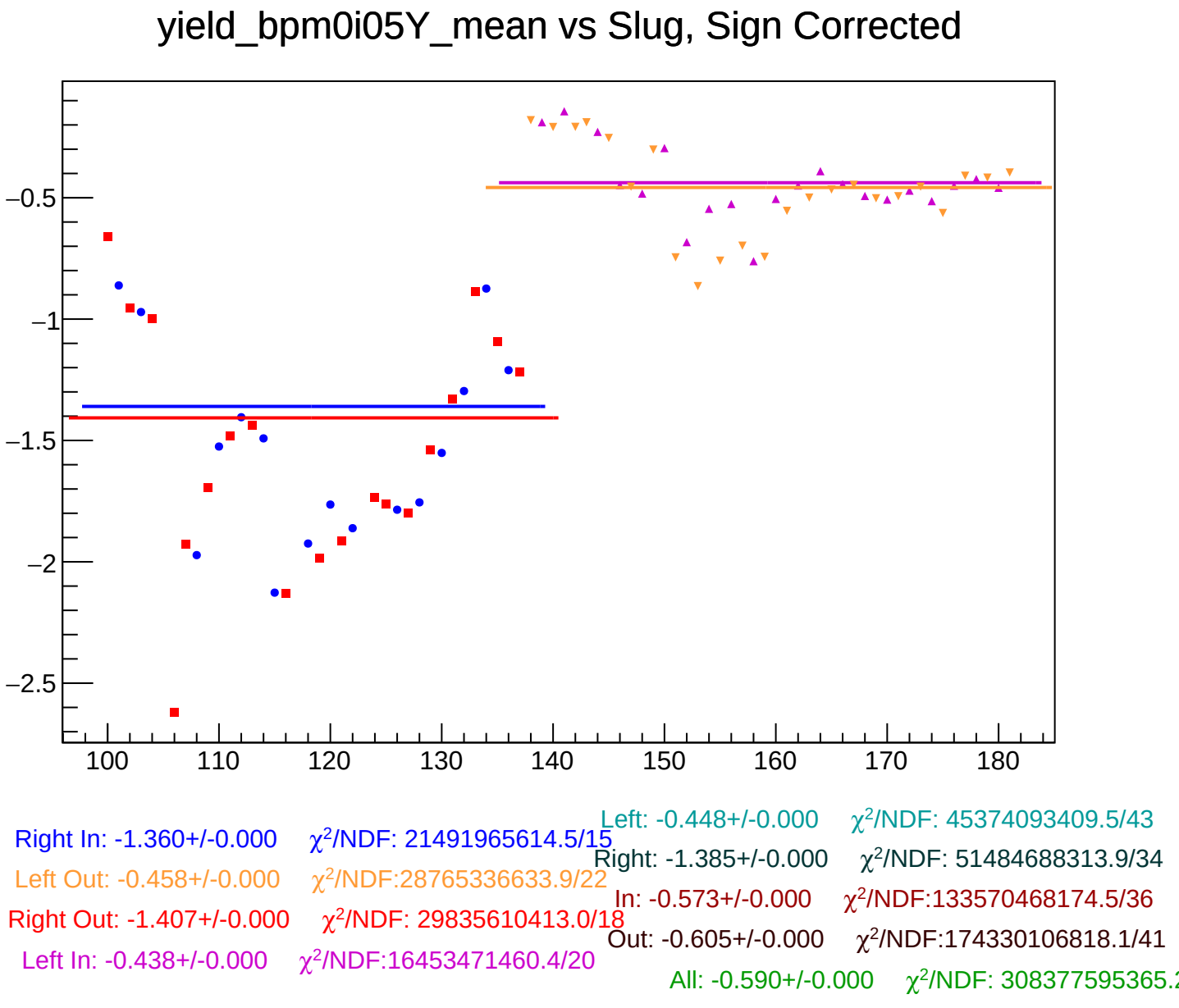
Left: 0.007+/-0.000 $\chi^2$/NDF: 2204745.0/43

Right: 0.008+/-0.000 $\chi^2$/NDF: 3028539.8/34

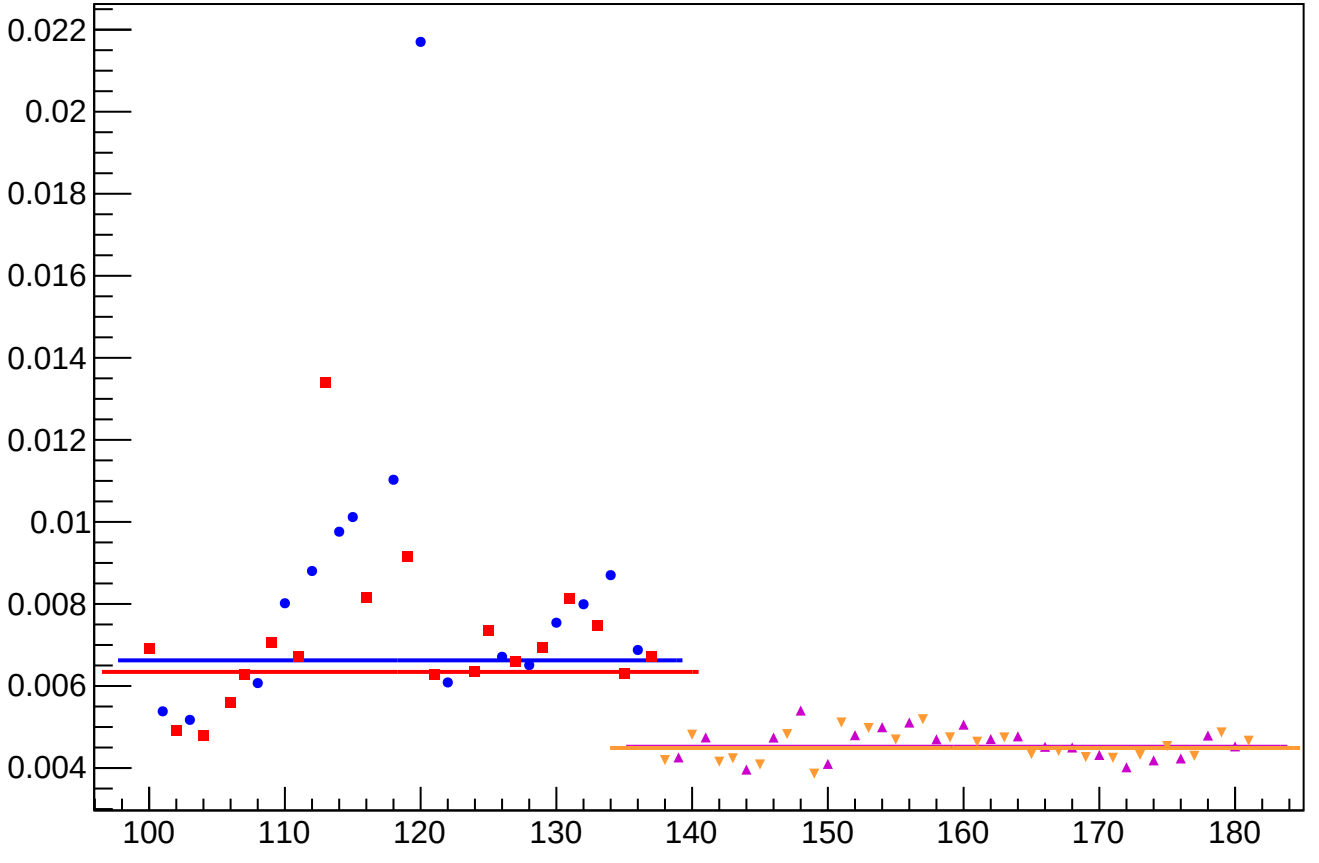
In: 0.007+/-0.000 $\chi^2$/NDF:3019694.5/36

Out: 0.007+/-0.000 $\chi^2$/NDF:2533452.7/41

All: 0.007+/-0.000 $\chi^2$/NDF: 5554325.6/78


yield_bpm0i05Y_mean vs Slug, Sign Corrected
−0.5
−1
−1.5
−2
−2.5
100
110
120
130
140
150
160
170
180
Right In: -1.360+/-0.000 χ²/NDF: 21491965614.5/15
Left Out: -0.458+/-0.000 χ²/NDF:28765336633.9/22
Right Out: -1.407+/-0.000 χ²/NDF: 29835610413.0/18
Left In: -0.438+/-0.000 χ²/NDF:16453471460.4/20
Left: -0.448+/-0.000 χ²/NDF: 45374093409.5/43
Right: -1.385+/-0.000 χ²/NDF: 51484688313.9/34
In: -0.573+/-0.000 χ²/NDF:133570468174.5/36
Out: -0.605+/-0.000 χ²/NDF:174330106818.1/41
All: -0.590+/-0.000 χ²/NDF: 308377595365.2

# yield_bpm0i05Y_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 693783.1/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:184911.6/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 529170.9/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:208505.9/20

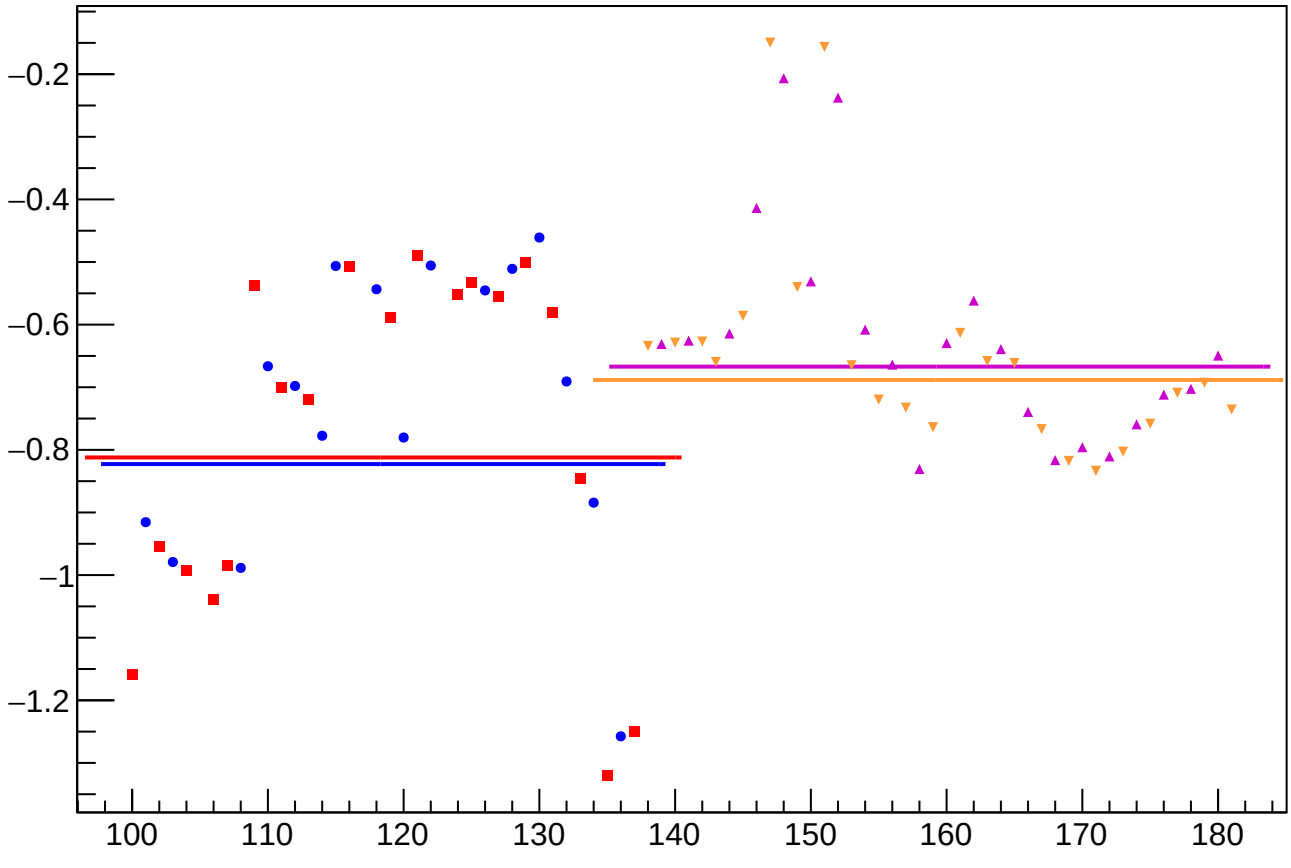
Left: 0.005+/-0.000 $\chi^2$/NDF: 394103.7/43

Right: 0.006+/-0.000 $\chi^2$/NDF: 1234142.9/34

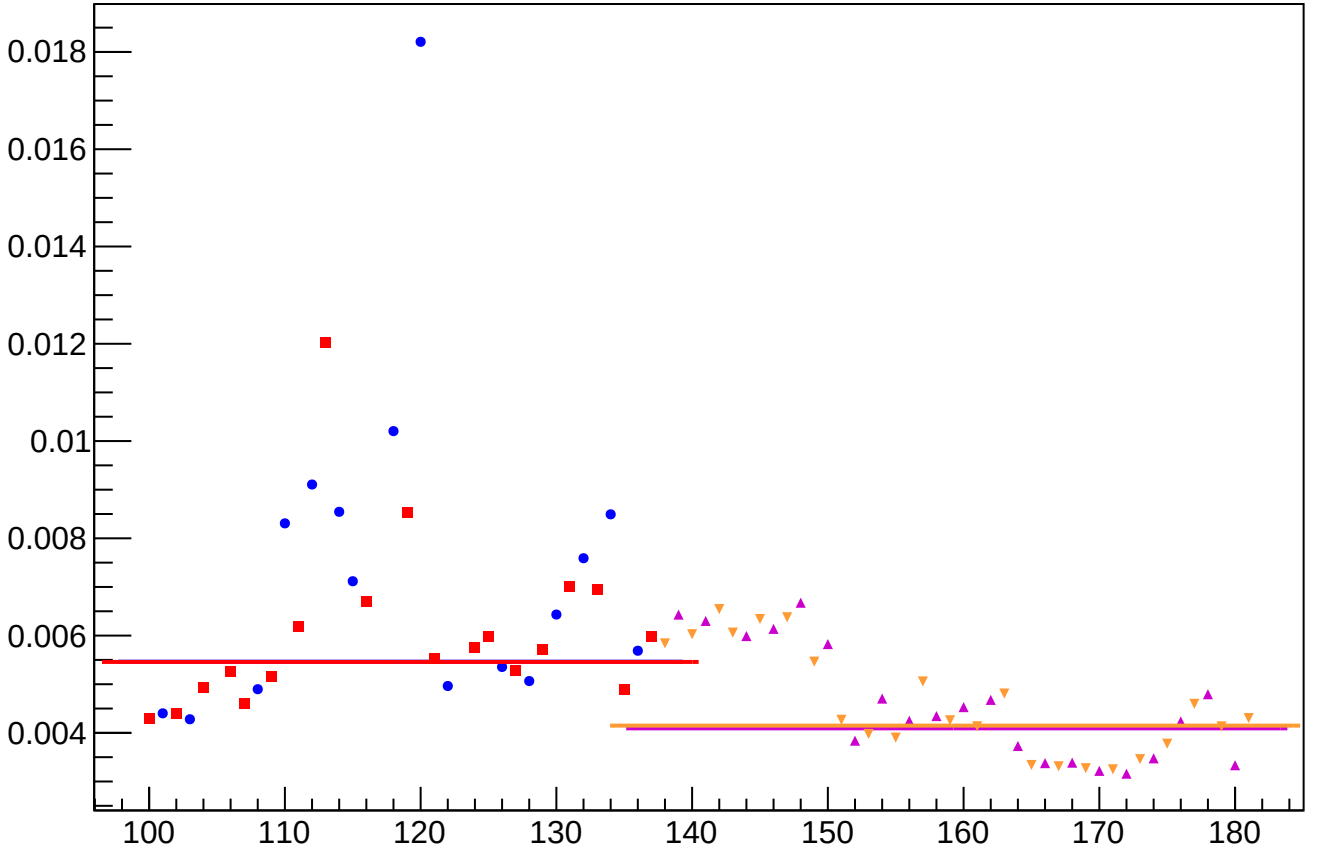
In: 0.005+/-0.000 $\chi^2$/NDF:1900526.9/36

Out: 0.005+/-0.000 $\chi^2$/NDF:1596999.4/41

All: 0.005+/-0.000 $\chi^2$/NDF: 3499914.5/78


yield_bpm0i07X_mean vs Slug, Sign Corrected
−0.2
−0.4
−0.6
−0.8
−1
−1.2
100
110
120
130
140
150
160
170
180
Right In: -0.823+/-0.000 χ²/NDF: 12226599844.5/15
Left Out: -0.688+/-0.000 χ²/NDF:22432349024.5/22
Right Out: -0.812+/-0.000 χ²/NDF: 14825441332.4/18
Left In: -0.667+/-0.000 χ²/NDF:22520575744.4/20
Left: -0.678+/-0.000 χ²/NDF: 45156422987.1/43
Right: -0.817+/-0.000 χ²/NDF: 27062819602.4/34
In: -0.694+/-0.000 χ²/NDF:38447029737.3/36
Out: -0.711+/-0.000 χ²/NDF:39790258625.8/41
All: -0.703+/-0.000 χ²/NDF: 78389888710.5/

# yield_bpm0i07X_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 961483.6/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1504992.0/22

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 507792.7/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:1731804.5/20

Left: 0.004+/-0.000 $\chi^2$/NDF: 3239625.4/43

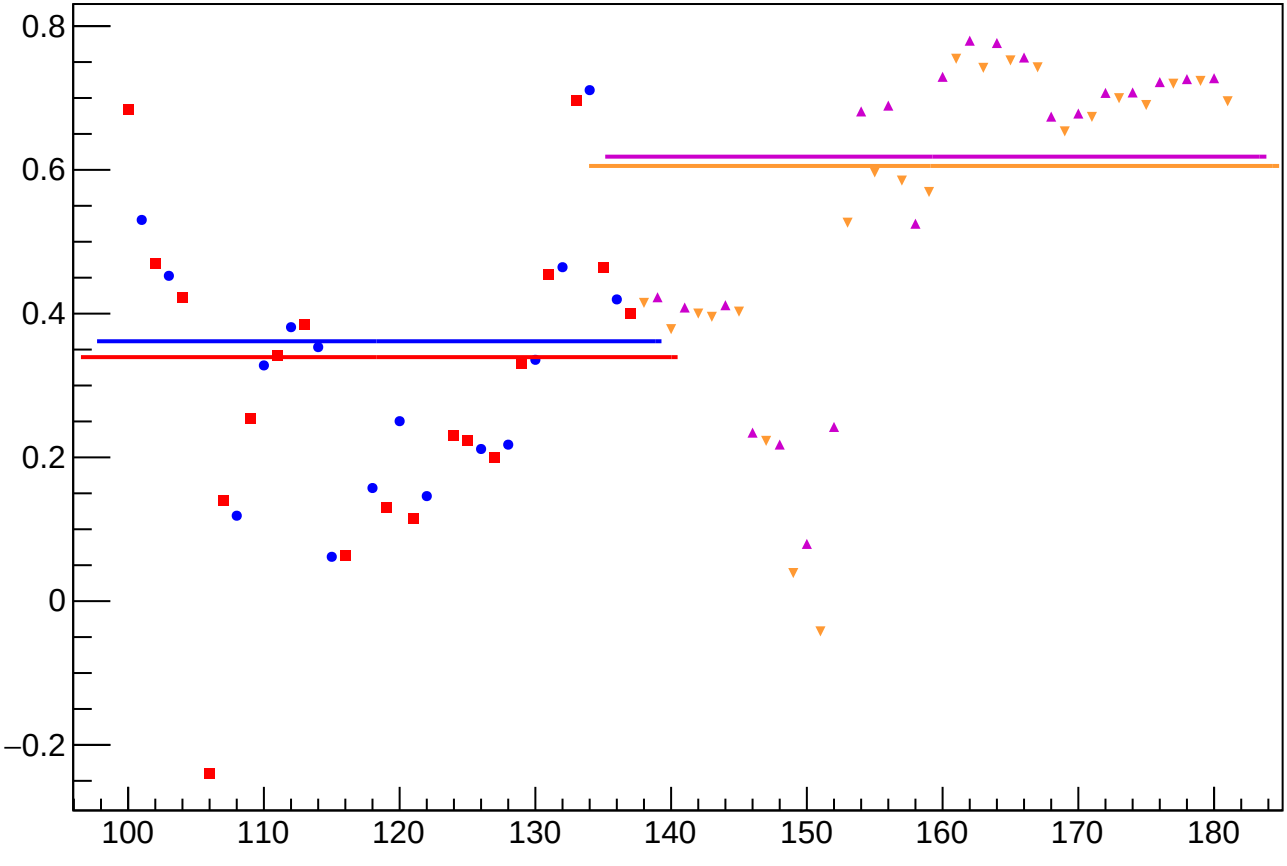
Right: 0.005+/-0.000 $\chi^2$/NDF: 1469281.0/34

In: 0.004+/-0.000 $\chi^2$/NDF:3266844.2/36

Out: 0.004+/-0.000 $\chi^2$/NDF:2579349.2/41

All: 0.004+/-0.000 $\chi^2$/NDF: 5849566.6/78

# yield_bpm0i07Y_mean vs Slug, Sign Corrected




Right In: 0.362+/-0.000 $\chi^2$/NDF: 8775952187.9/15

Left Out: 0.605+/-0.000 $\chi^2$/NDF:44379852114.7/22

Right Out: 0.339+/-0.000 $\chi^2$/NDF: 12071802789.9/18

Left In: 0.618+/-0.000 $\chi^2$/NDF:39470674949.3/20

Left: 0.612+/-0.000 $\chi^2$/NDF: 83954038046.2/43

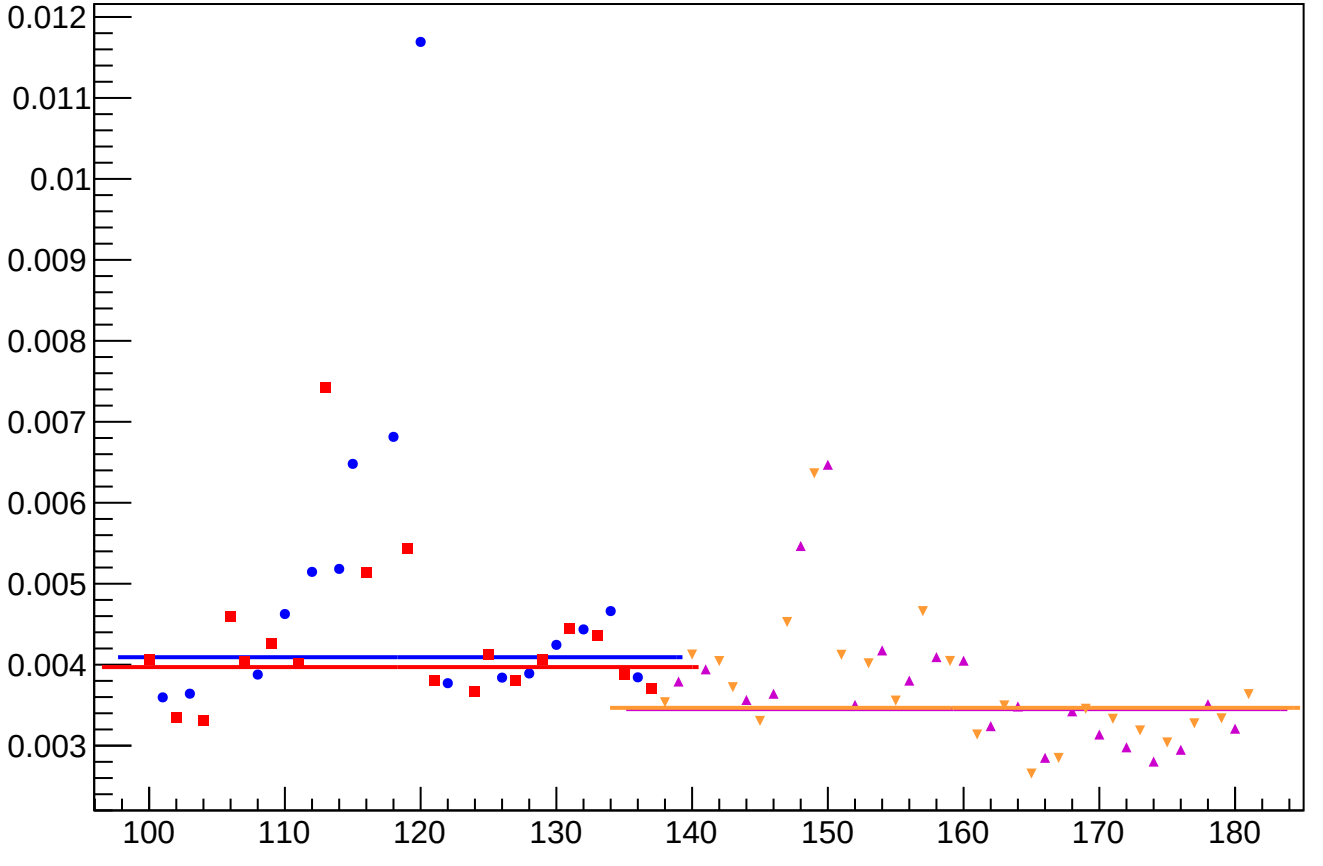
Right: 0.350+/-0.000 $\chi^2$/NDF: 20941665635.5/34

In: 0.558+/-0.000 $\chi^2$/NDF:66748526050.9/36

Out: 0.541+/-0.000 $\chi^2$/NDF:78239457111.2/41

All: 0.549+/-0.000 $\chi^2$/NDF: 145238511320.2

# yield_bpm0i07Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 491748.3/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:812995.8/22

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 313701.1/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:873646.9/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 1686962.4/43

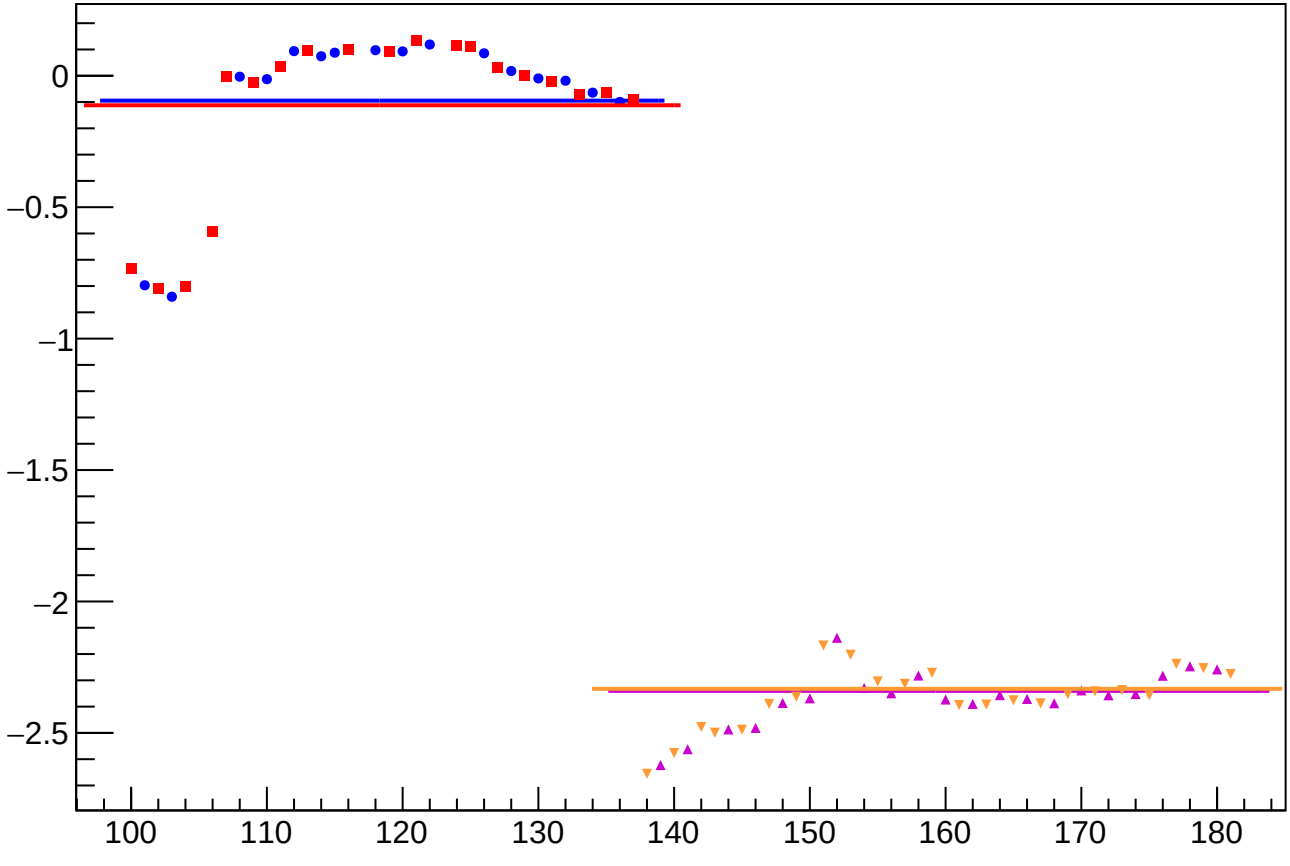
Right: 0.004+/-0.000 $\chi^2$/NDF: 811192.6/34

In: 0.004+/-0.000 $\chi^2$/NDF:1596251.8/36

Out: 0.004+/-0.000 $\chi^2$/NDF:1282737.2/41

All: 0.004+/-0.000 $\chi^2$/NDF: 2879199.5/78

# yield_bpm1i02X_mean vs Slug, Sign Corrected




Right In: -0.095+/-0.000 $\chi^2$/NDF: 5489721985.1/15

Left Out: -2.332+/-0.000 $\chi^2$/NDF:1951974528.2/22

Right Out: -0.112+/-0.000 $\chi^2$/NDF: 6190163375.6/18

Left In: -2.340+/-0.000 $\chi^2$/NDF:1592335074.5/20

Left: -2.336+/-0.000 $\chi^2$/NDF: 3550462064.9/43

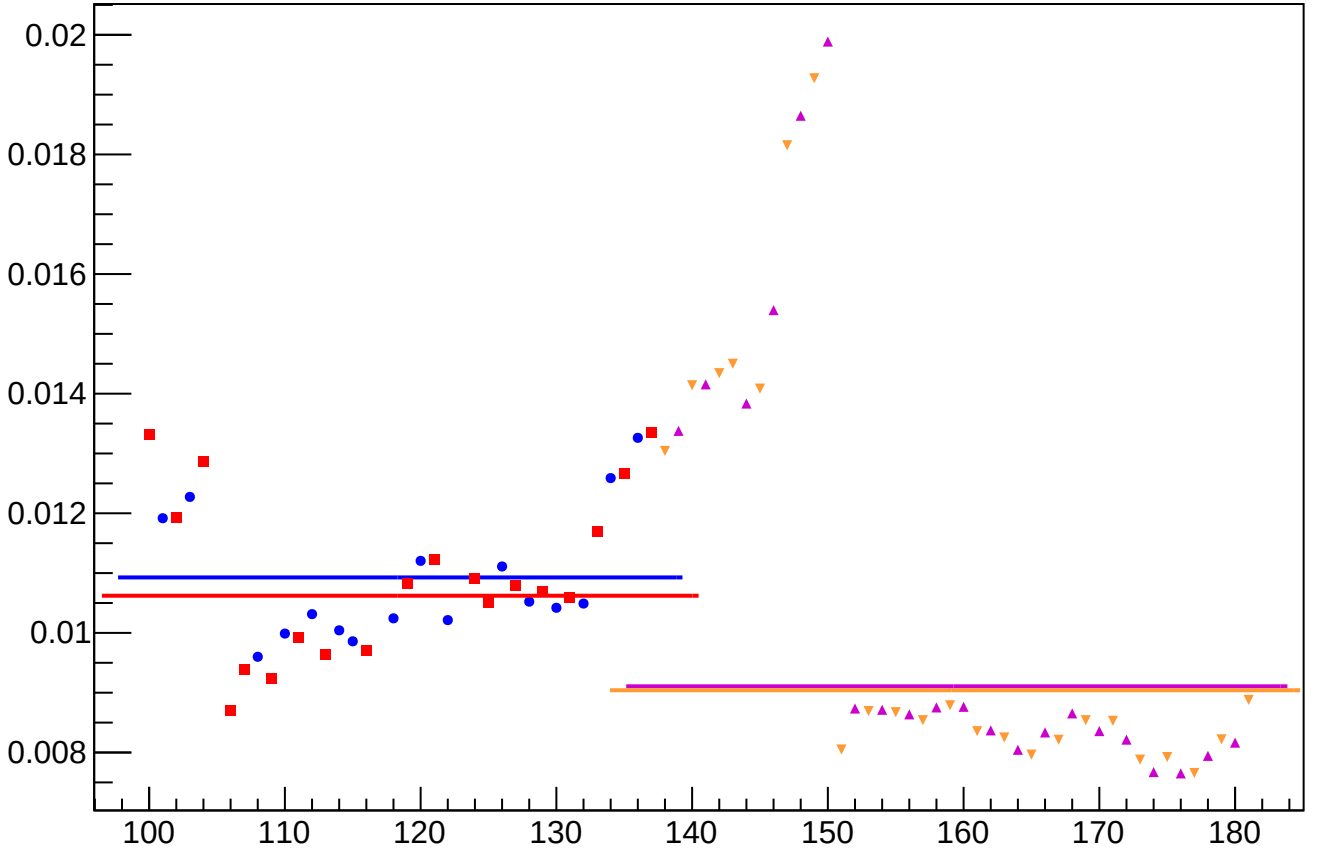
Right: -0.104+/-0.000 $\chi^2$/NDF: 11689577002.2/34

In: -1.812+/-0.000 $\chi^2$/NDF:237066876288.7/36

Out: -1.805+/-0.000 $\chi^2$/NDF:253702735701.2/41

All: -1.808+/-0.000 $\chi^2$/NDF: 490775562684.3

# yield_bpm1i02X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 136478.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:2048443.9/22

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 190526.1/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:2125761.7/20

Left: 0.009+/-0.000 $\chi^2$/NDF: 4175087.5/43

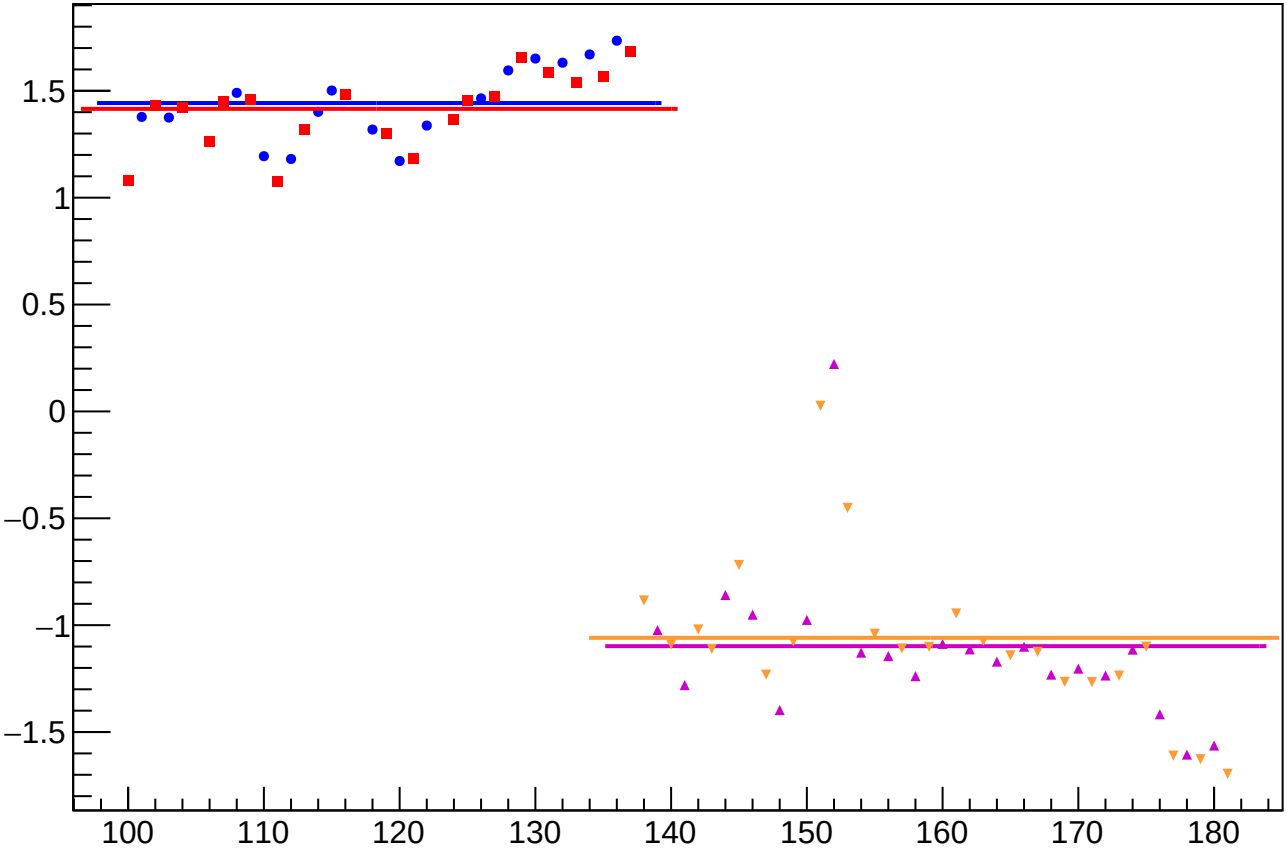
Right: 0.011+/-0.000 $\chi^2$/NDF: 332847.6/34

In: 0.010+/-0.000 $\chi^2$/NDF:2564622.2/36

Out: 0.009+/-0.000 $\chi^2$/NDF:2487942.6/41

All: 0.009+/-0.000 $\chi^2$/NDF: 5056309.5/78

# yield_bpm1i02Y_mean vs Slug, Sign Corrected




Right In: 1.443+/-0.000 $\chi^2$/NDF: 3739724691.1/15

Left Out: -1.059+/-0.000 $\chi^2$/NDF:55190899413.2/22

Right Out: 1.415+/-0.000 $\chi^2$/NDF: 2803466123.0/18

Left In: -1.098+/-0.000 $\chi^2$/NDF:53656525026.2/20

Left: -1.078+/-0.000 $\chi^2$/NDF: 109089543778.0/43

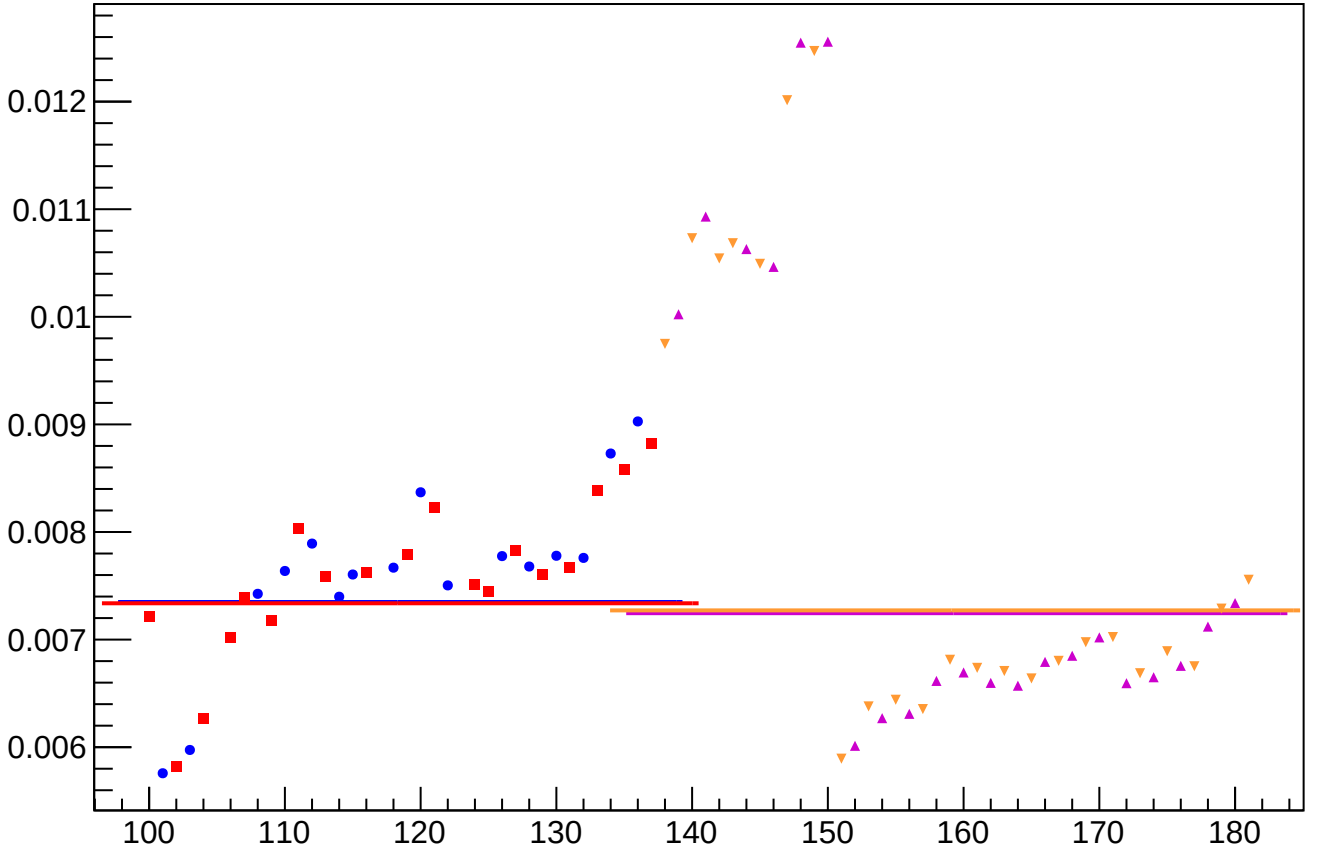
Right: 1.429+/-0.000 $\chi^2$/NDF: 6593016759.0/34

In: -0.348+/-0.000 $\chi^2$/NDF:652564551973.9/36

Out: -0.333+/-0.000 $\chi^2$/NDF:650625652702.6/41

All: -0.340+/-0.000 $\chi^2$/NDF: 1303236769258

# yield_bpm1i02Y_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 270864.2/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1489630.6/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 195372.6/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:1554104.3/20

Left: 0.007+/-0.000 $\chi^2$/NDF: 3043949.7/43

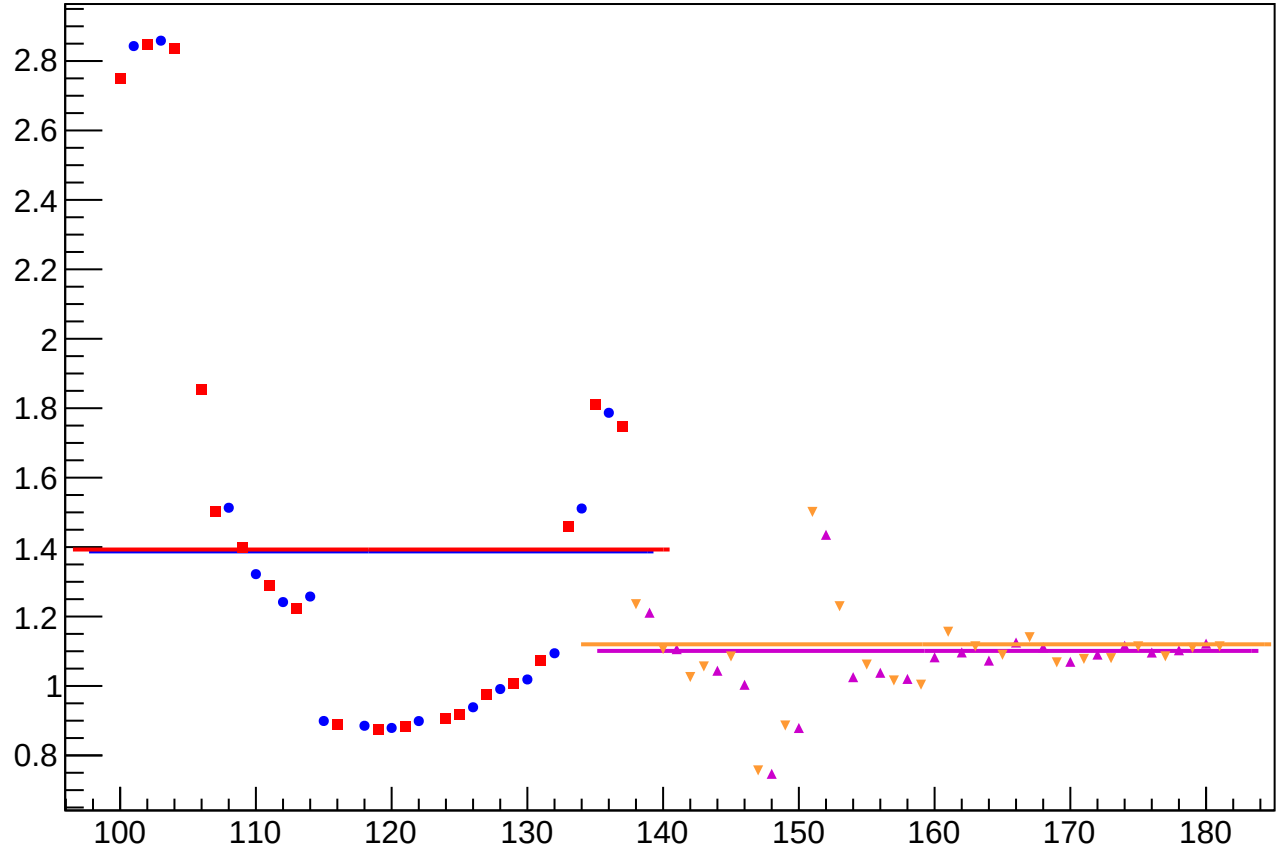
Right: 0.007+/-0.000 $\chi^2$/NDF: 466255.6/34

In: 0.007+/-0.000 $\chi^2$/NDF:1826953.7/36

Out: 0.007+/-0.000 $\chi^2$/NDF:1685847.1/41

All: 0.007+/-0.000 $\chi^2$/NDF: 3512897.8/78

# yield_bpm1i04X_mean vs Slug, Sign Corrected




Right In: 1.388+/-0.000 $\chi^2$/NDF: 58612635453.0/15

Left Out: 1.120+/-0.000 $\chi^2$/NDF:5512321538.5/22

Right Out: 1.393+/-0.000 $\chi^2$/NDF: 55365724659.7/18

Left In: 1.101+/-0.000 $\chi^2$/NDF:4193835936.2/20

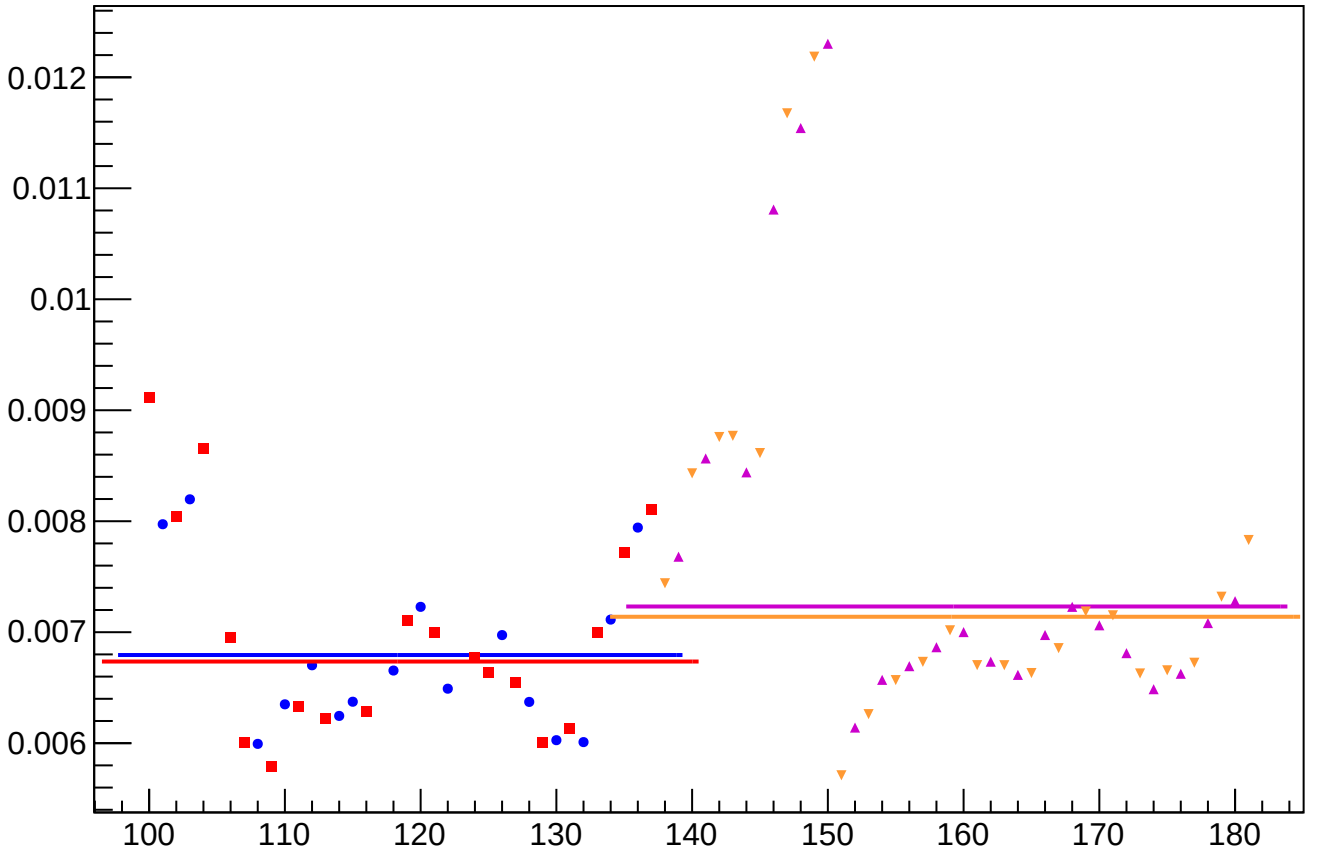
Left: 1.111+/-0.000 $\chi^2$/NDF: 9765300538.8/43

Right: 1.390+/-0.000 $\chi^2$/NDF: 113980694957.7/34

In: 1.195+/-0.000 $\chi^2$/NDF:71290712160.0/36

Out: 1.208+/-0.000 $\chi^2$/NDF:69077143980.7/41

All: 1.202+/-0.000 $\chi^2$/NDF: 140406649350.6




Right In: 0.007+/-0.000 $\chi^2$/NDF: 164456.7/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:864479.7/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 198492.7/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:909485.9/20

Left: 0.007+/-0.000 $\chi^2$/NDF: 1776770.0/43

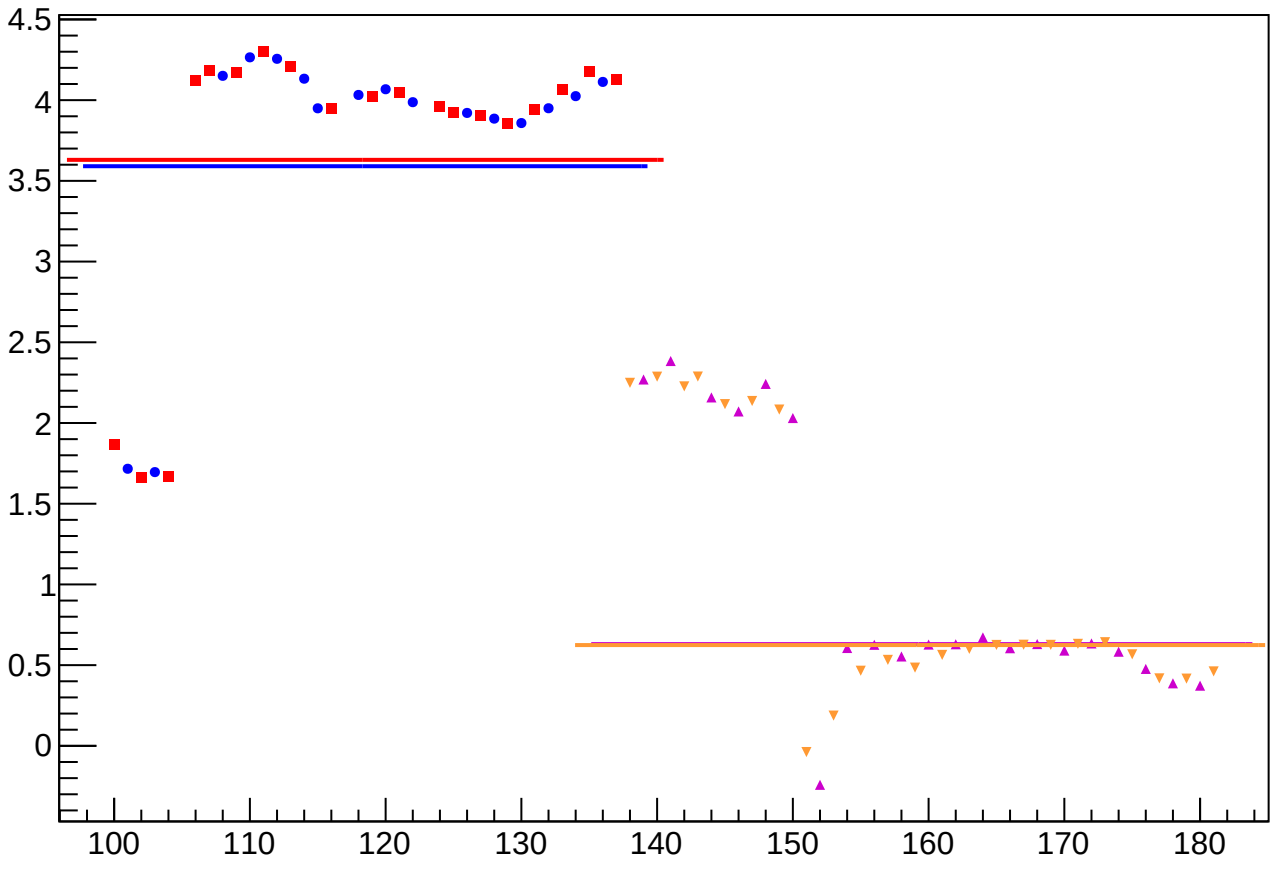
Right: 0.007+/-0.000 $\chi^2$/NDF: 363493.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:1113435.5/36

Out: 0.007+/-0.000 $\chi^2$/NDF:1098771.1/41

All: 0.007+/-0.000 $\chi^2$/NDF: 2215206.3/78

# yield_bpm1i04Y_mean vs Slug, Sign Corrected




Right In: 3.591+/-0.000 $\chi^2$/NDF: 202184644473.7/15

Left Out: 0.624+/-0.000 $\chi^2$/NDF:250610731812.6/22

Right Out: 3.630+/-0.000 $\chi^2$/NDF: 212588390342.3/18

Left In: 0.630+/-0.000 $\chi^2$/NDF:251889151874.3/20

Left: 0.627+/-0.000 $\chi^2$/NDF: 502517714742.3/43

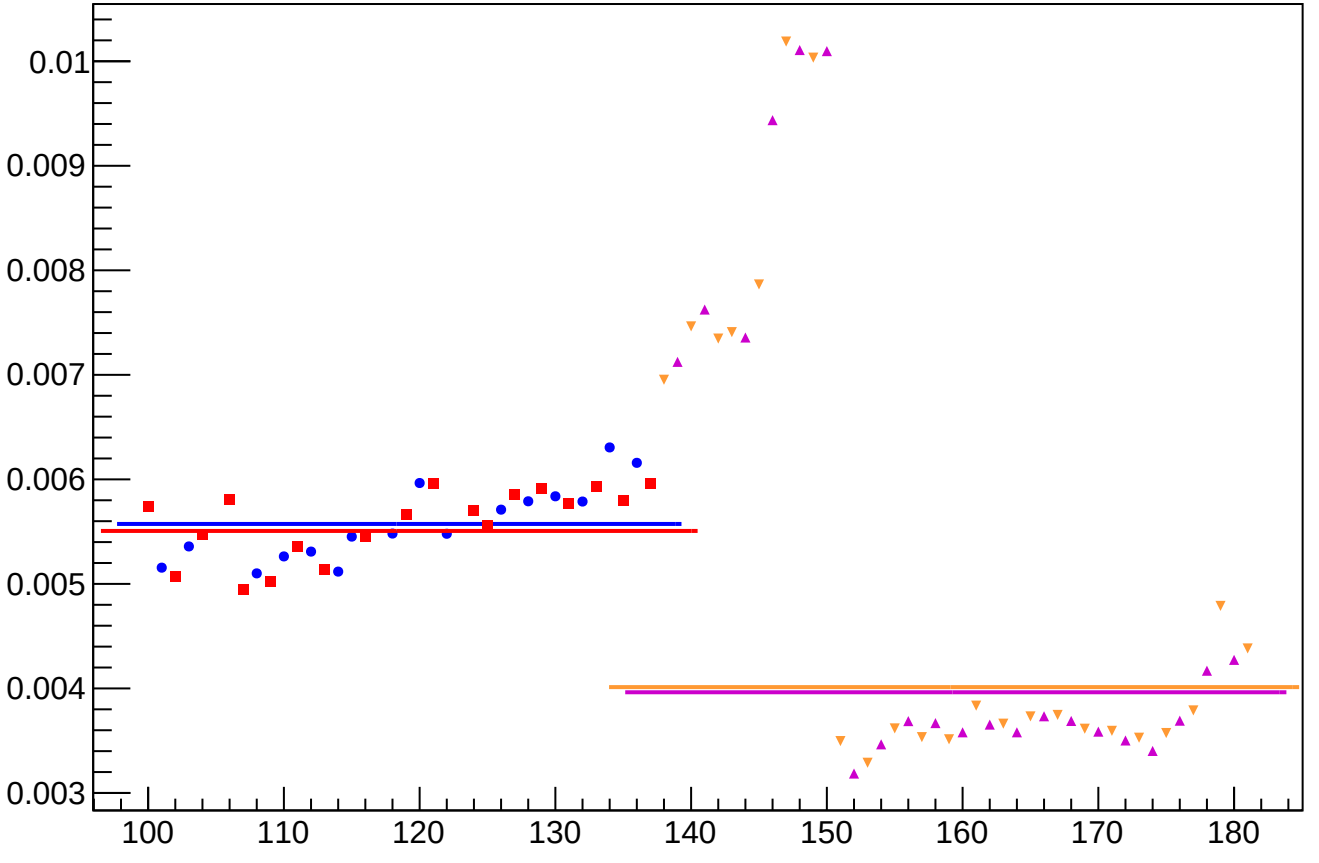
Right: 3.611+/-0.000 $\chi^2$/NDF: 414956393826.7/34

In: 1.202+/-0.000 $\chi^2$/NDF:2085838206947.9/36

Out: 1.207+/-0.000 $\chi^2$/NDF:2217122385915.4/41

All: 1.204+/-0.000 $\chi^2$/NDF: 4302978050066.

# yield_bpm1i04Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 59130.1/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2954397.8/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 57427.9/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:3118139.1/20

Left: 0.004+/-0.000 $\chi^2$/NDF: 6074928.3/43

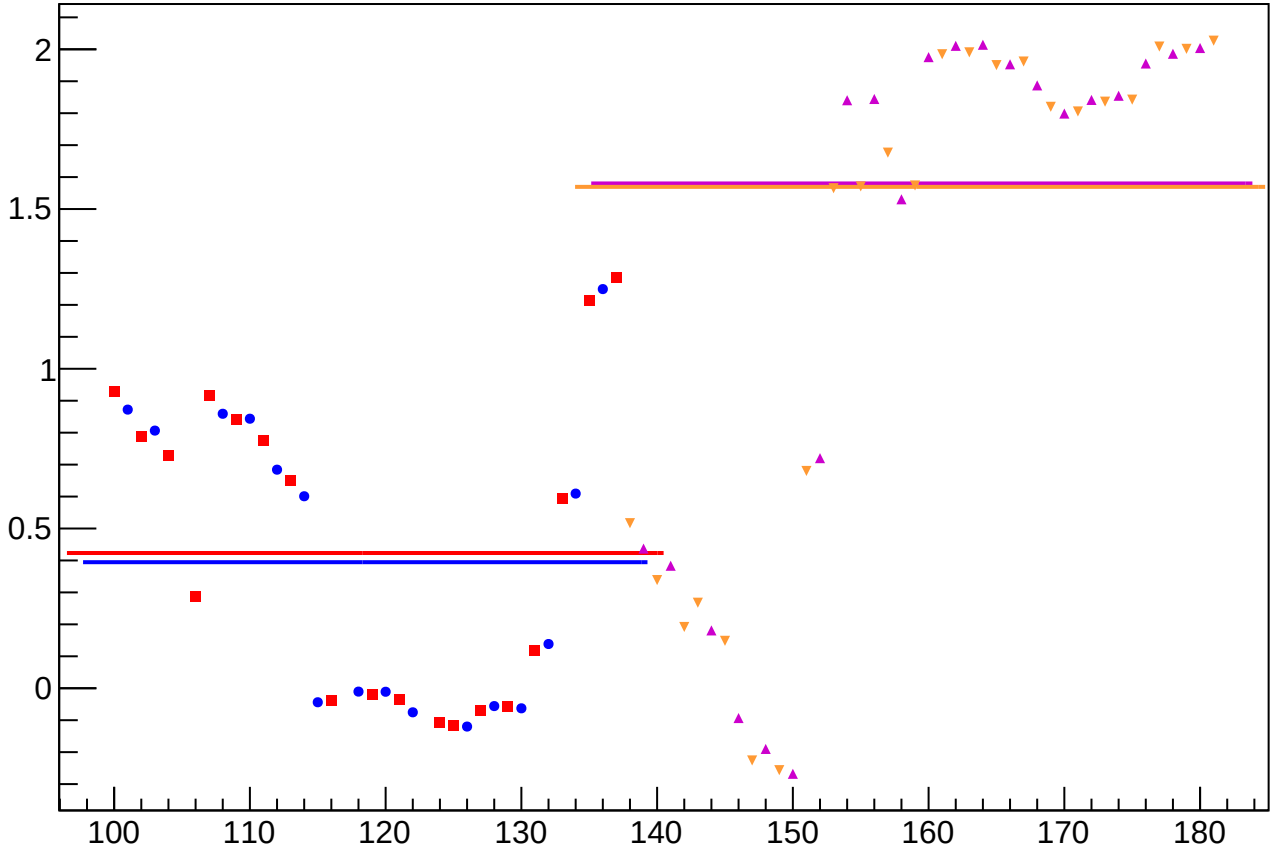
Right: 0.006+/-0.000 $\chi^2$/NDF: 117612.2/34

In: 0.004+/-0.000 $\chi^2$/NDF:4142912.8/36

Out: 0.004+/-0.000 $\chi^2$/NDF:3878522.5/41

All: 0.004+/-0.000 $\chi^2$/NDF: 8022403.9/78

# yield_bpm1i06X_mean vs Slug, Sign Corrected




Right In: 0.395+/-0.000 $\chi^2$/NDF: 7412548044.8/15

Left Out: 1.569+/-0.000 $\chi^2$/NDF:60792762965.6/22

Right Out: 0.423+/-0.000 $\chi^2$/NDF: 6904060515.1/18

Left In: 1.580+/-0.000 $\chi^2$/NDF:64567344836.6/20

Left: 1.575+/-0.000 $\chi^2$/NDF: 125368889911.3/43

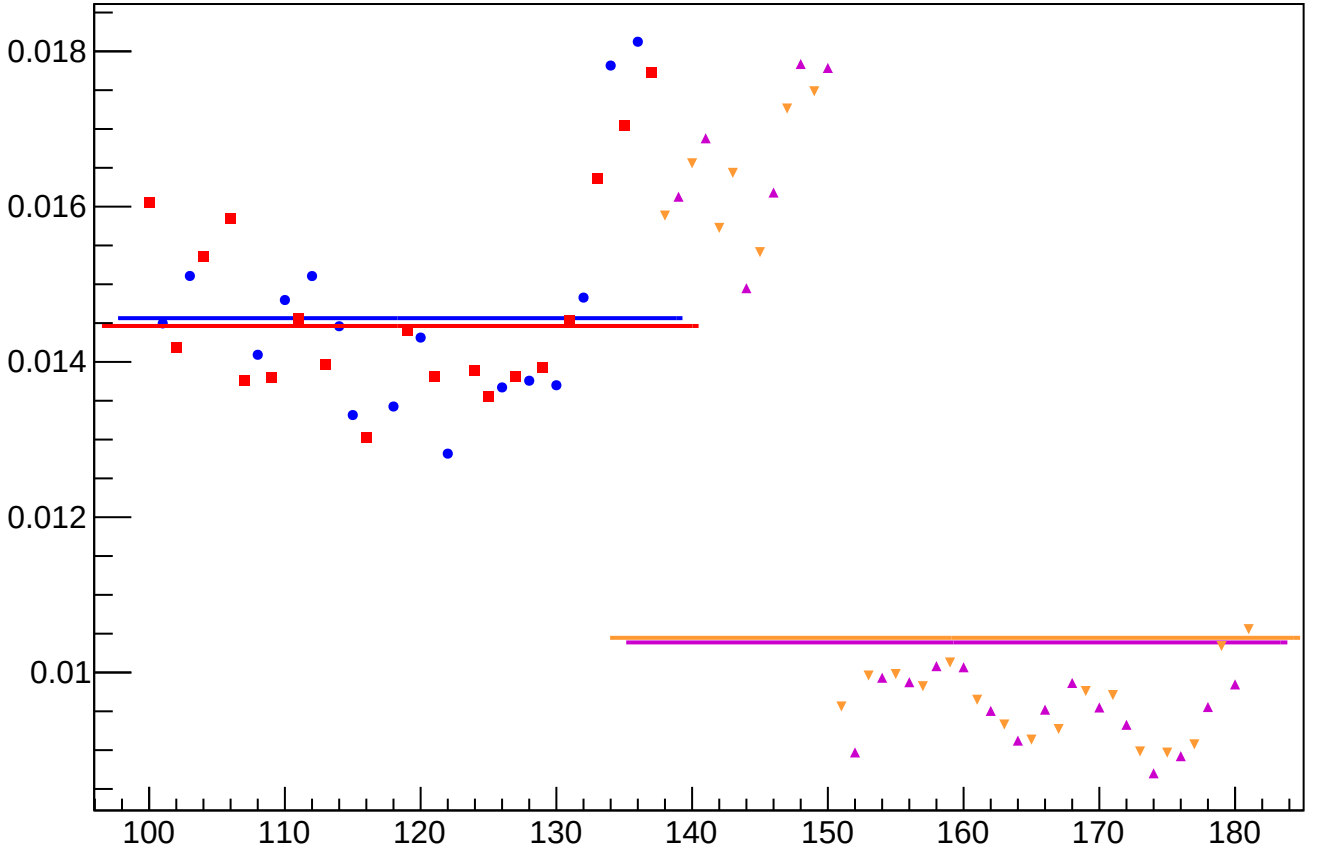
Right: 0.409+/-0.000 $\chi^2$/NDF: 14330729641.2/34

In: 1.364+/-0.000 $\chi^2$/NDF:110441688679.2/36

Out: 1.362+/-0.000 $\chi^2$/NDF:105179001743.6/41

All: 1.363+/-0.000 $\chi^2$/NDF: 215621009448.2

# yield_bpm1i06X_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 133134.7/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:1658605.5/22

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 77396.3/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:1709984.4/20

Left: 0.010+/-0.000 $\chi^2$/NDF: 3369134.2/43

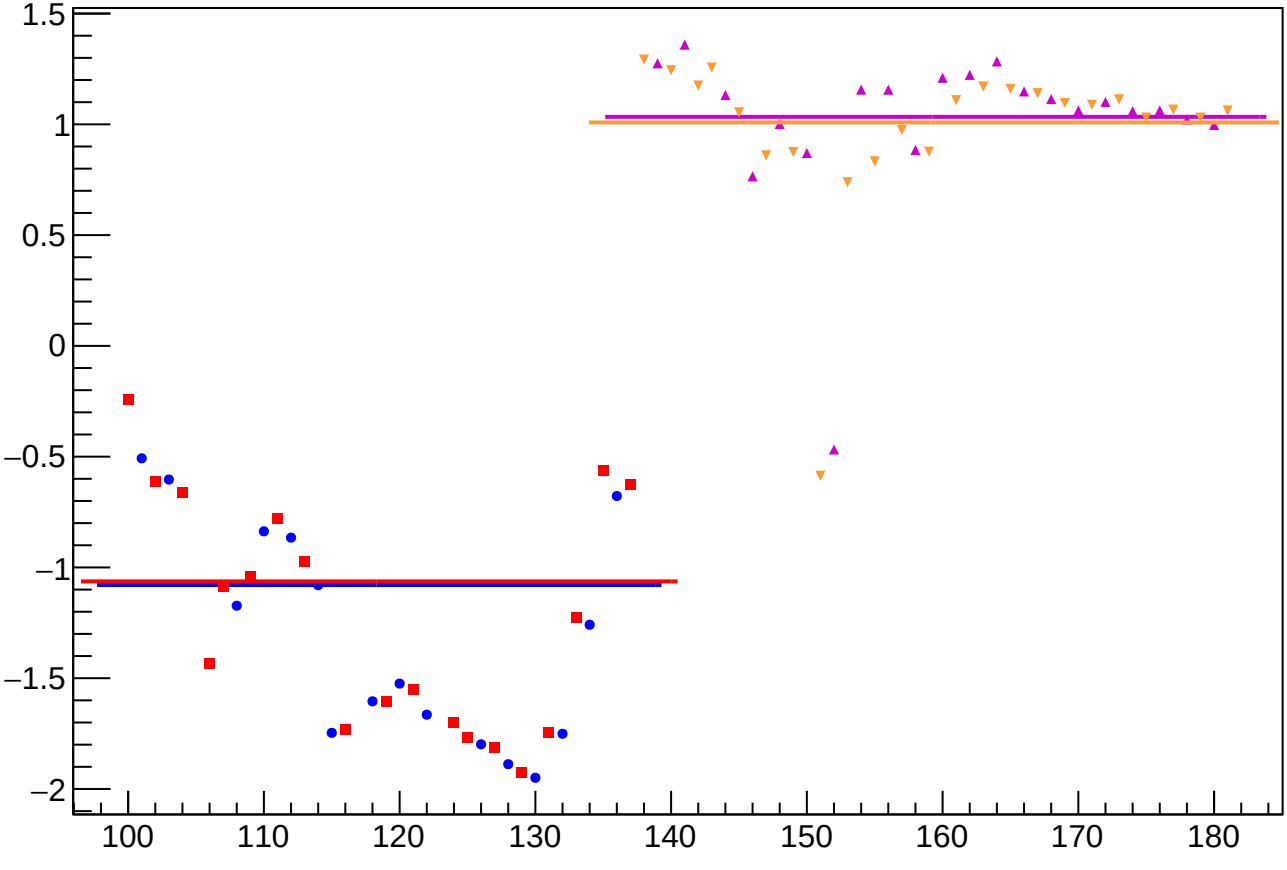
Right: 0.015+/-0.000 $\chi^2$/NDF: 210877.4/34

In: 0.011+/-0.000 $\chi^2$/NDF:2797715.5/36

Out: 0.011+/-0.000 $\chi^2$/NDF:2656529.9/41

All: 0.011+/-0.000 $\chi^2$/NDF: 5454358.2/78

# yield_bpm1i06Y_mean vs Slug, Sign Corrected




Right In: -1.079+/-0.000 $\chi^2$/NDF: 59756571764.5/15

Left Out: 1.009+/-0.000 $\chi^2$/NDF:111038912542.3/22

Right Out: -1.063+/-0.000 $\chi^2$/NDF: 49910403943.5/18

Left In: 1.034+/-0.000 $\chi^2$/NDF:125375035320.7/20

Left: 1.021+/-0.000 $\chi^2$/NDF: 236826061166.0/43

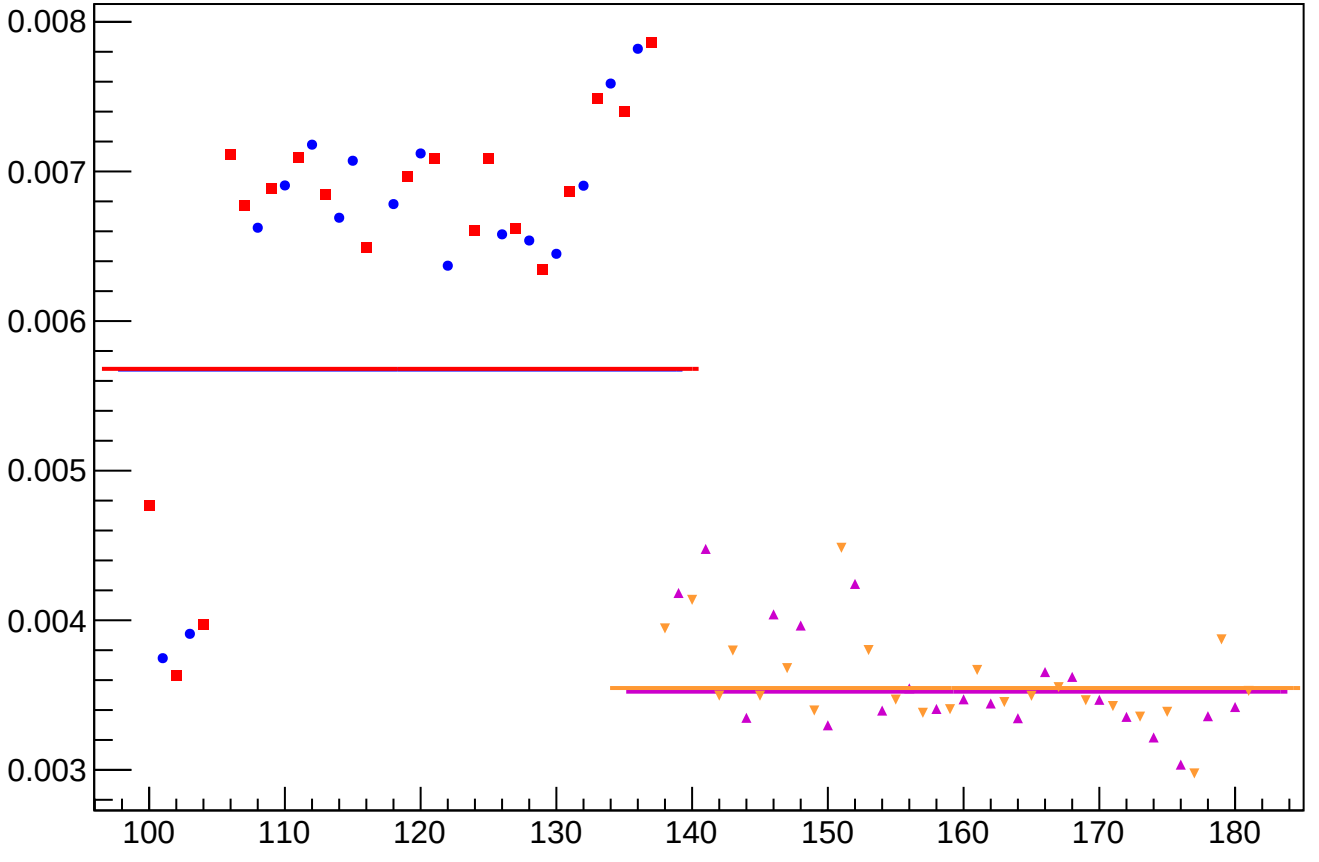
Right: -1.071+/-0.000 $\chi^2$/NDF: 109693375141.4/34

In: 0.746+/-0.000 $\chi^2$/NDF:947549268218.9/36

Out: 0.736+/-0.000 $\chi^2$/NDF:905855094526.7/41

All: 0.741+/-0.000 $\chi^2$/NDF: 1853475951316.

# yield_bpm1i06Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 944822.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:211936.5/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 980583.9/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:277763.7/20

Left: 0.004+/-0.000 $\chi^2$/NDF: 490467.4/43

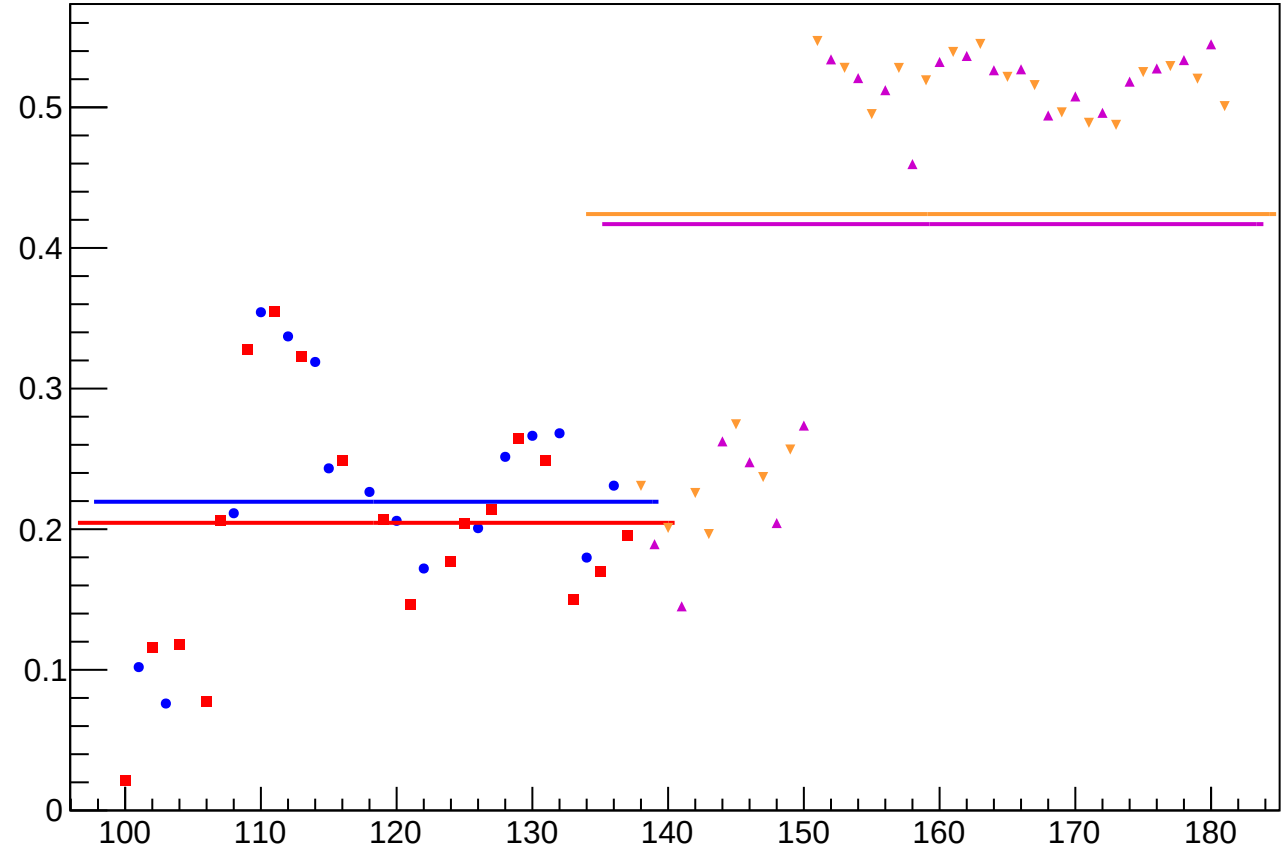
Right: 0.006+/-0.000 $\chi^2$/NDF: 1925411.0/34

In: 0.004+/-0.000 $\chi^2$/NDF:2805840.6/36

Out: 0.004+/-0.000 $\chi^2$/NDF:2772633.4/41

All: 0.004+/-0.000 $\chi^2$/NDF: 5578673.7/78

# yield_bpm2i01X_mean vs Slug, Sign Corrected




Right In: 0.220+/-0.000 $\chi^2$/NDF: 16729743257.8/15

Left Out: 0.424+/-0.000 $\chi^2$/NDF:150846301069.0/22

Right Out: 0.205+/-0.000 $\chi^2$/NDF: 22312377506.1/18

Left In: 0.417+/-0.000 $\chi^2$/NDF:153115851744.3/20

Left: 0.421+/-0.000 $\chi^2$/NDF: 304158716835.0/43

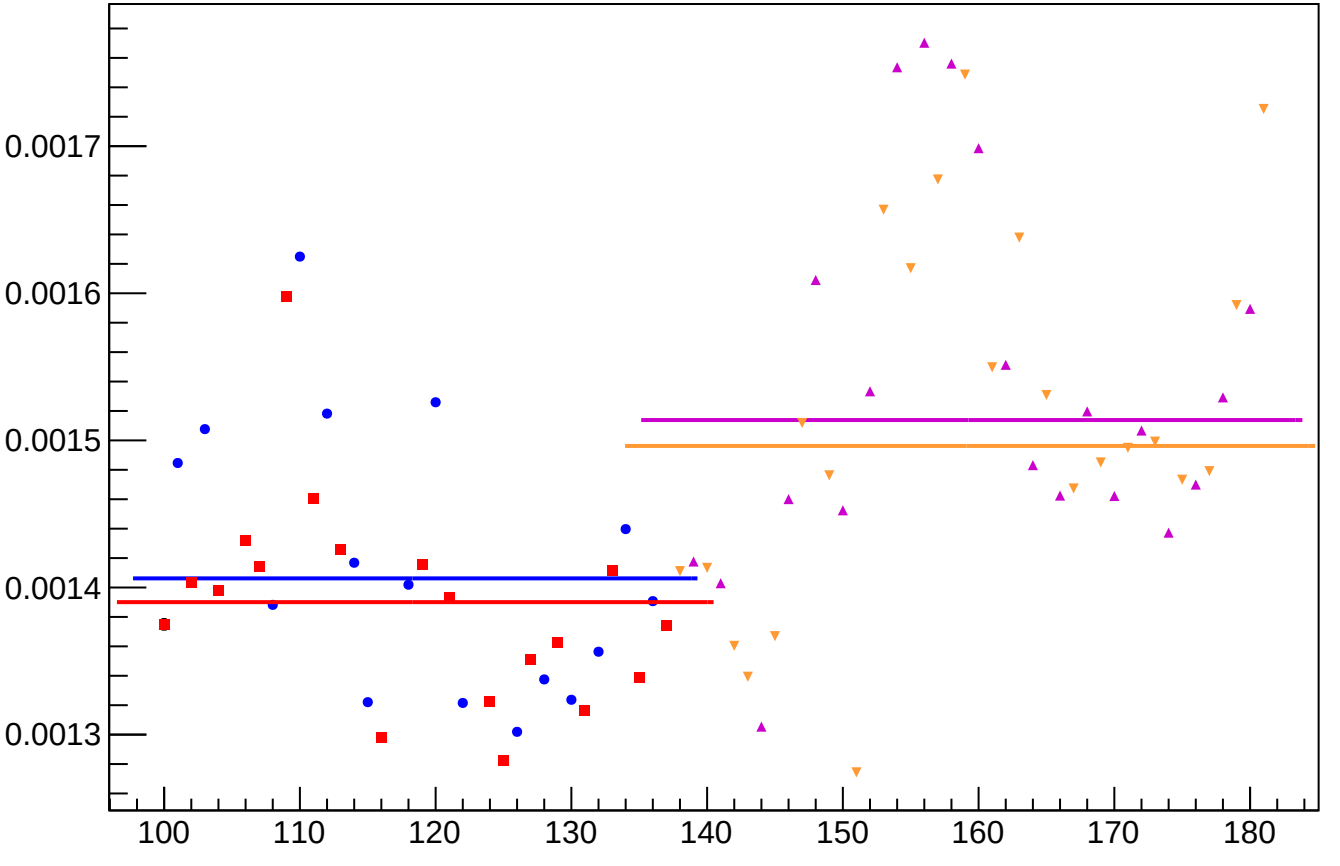
Right: 0.212+/-0.000 $\chi^2$/NDF: 39451425816.8/34

In: 0.353+/-0.000 $\chi^2$/NDF:262510315374.7/36

Out: 0.354+/-0.000 $\chi^2$/NDF:297479070991.3/41

All: 0.354+/-0.000 $\chi^2$/NDF: 559990706343.1

# yield_bpm2i01X_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 48200.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:238873.9/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 34786.9/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:209096.7/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 450354.0/43

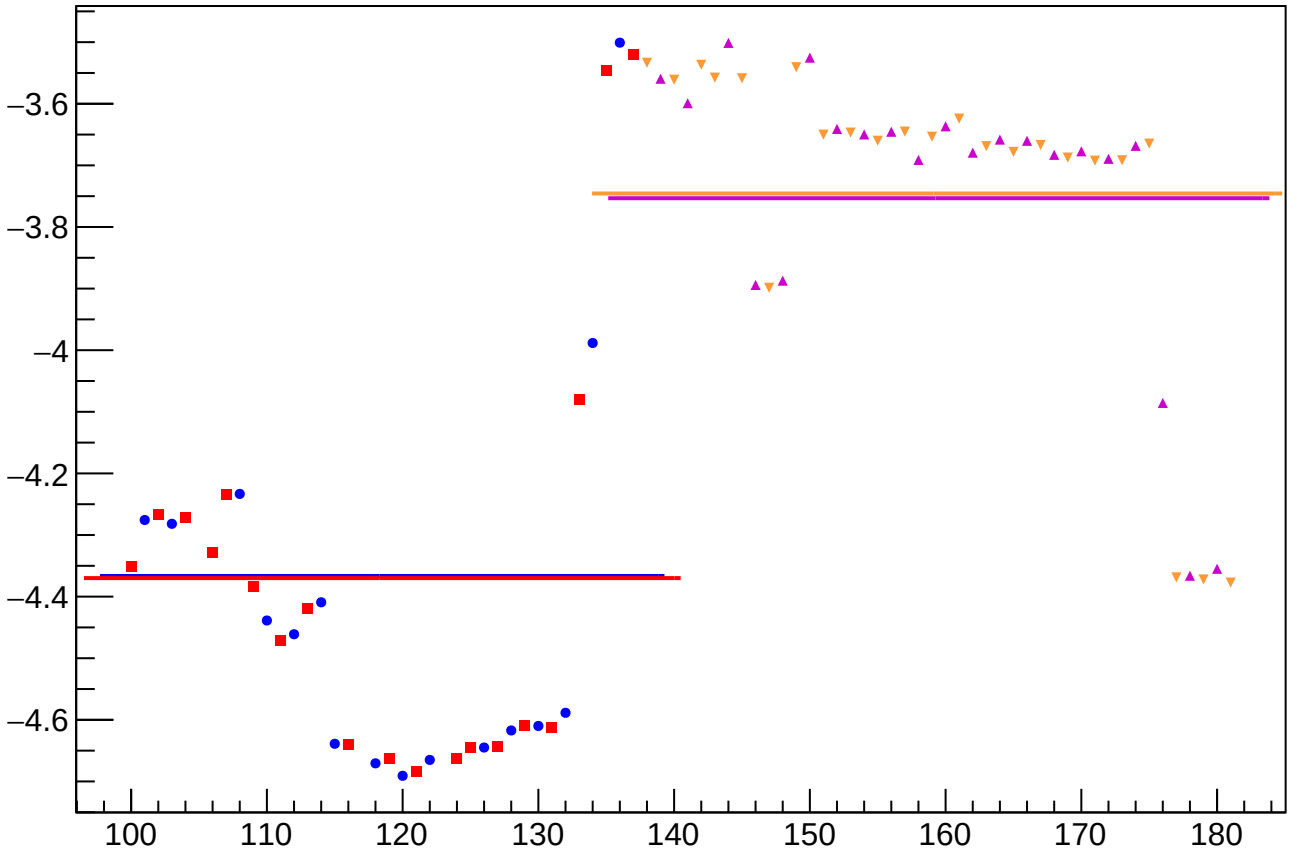
Right: 0.001+/-0.000 $\chi^2$/NDF: 83938.6/34

In: 0.001+/-0.000 $\chi^2$/NDF:312380.1/36

Out: 0.001+/-0.000 $\chi^2$/NDF:331813.8/41

All: 0.001+/-0.000 $\chi^2$/NDF: 647434.1/78

# yield_bpm2i01Y_mean vs Slug, Sign Corrected




Right In: -4.367+/-0.000 $\chi^2$/NDF: 353013303743.6/15

Left Out: -3.746+/-0.000 $\chi^2$/NDF:413473757367.1/22

Right Out: -4.370+/-0.000 $\chi^2$/NDF: 296136368274.3/18

Left In: -3.753+/-0.000 $\chi^2$/NDF:324437609056.6/20

Left: -3.749+/-0.000 $\chi^2$/NDF: 738086811786.9/43

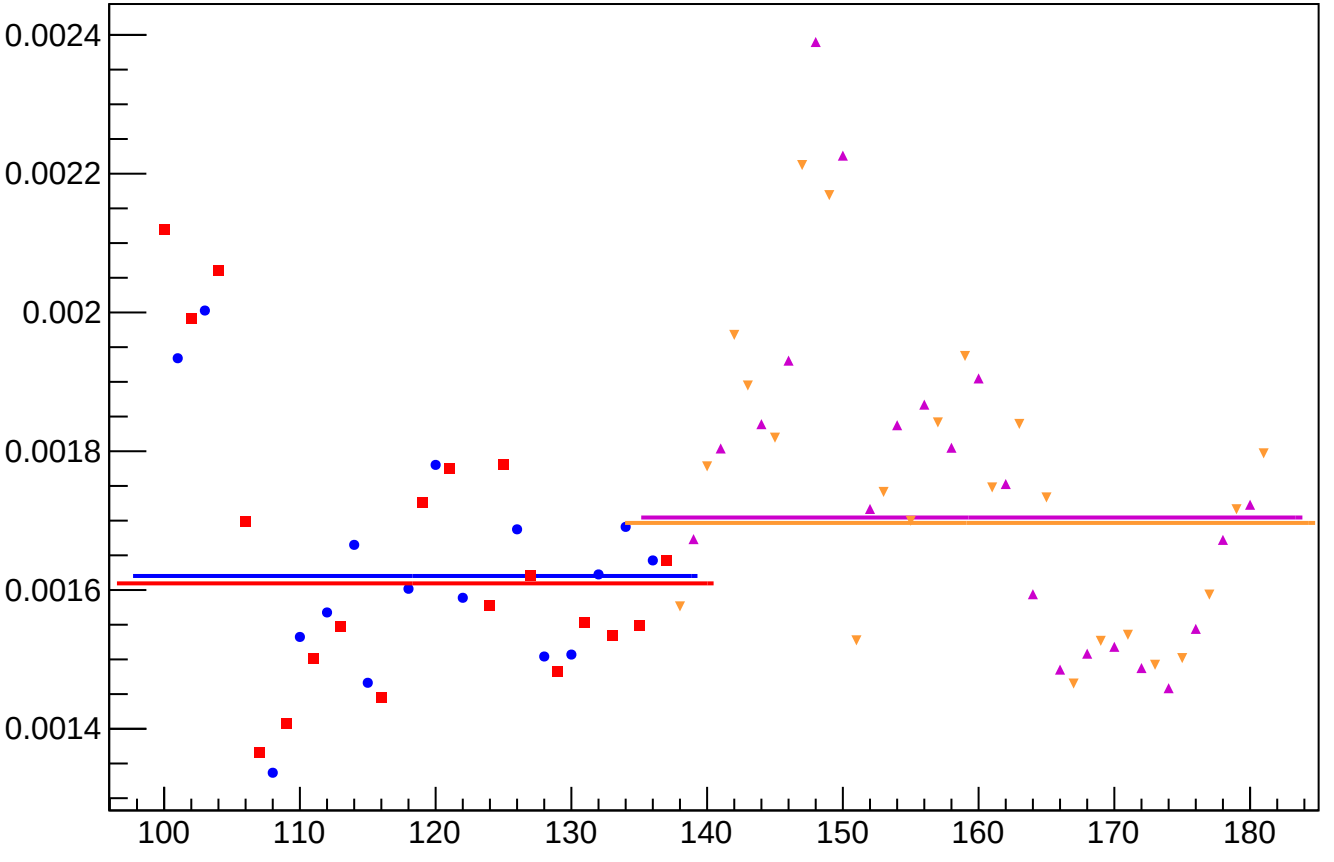
Right: -4.368+/-0.000 $\chi^2$/NDF: 649165512283.3/34

In: -3.946+/-0.000 $\chi^2$/NDF:1352288398896.2/36

Out: -3.939+/-0.000 $\chi^2$/NDF:1448772342635.0/41

All: -3.942+/-0.000 $\chi^2$/NDF: 2801280703574

# yield_bpm2i01Y_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 140216.3/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:429966.1/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 184968.0/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:492236.7/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 922562.2/43

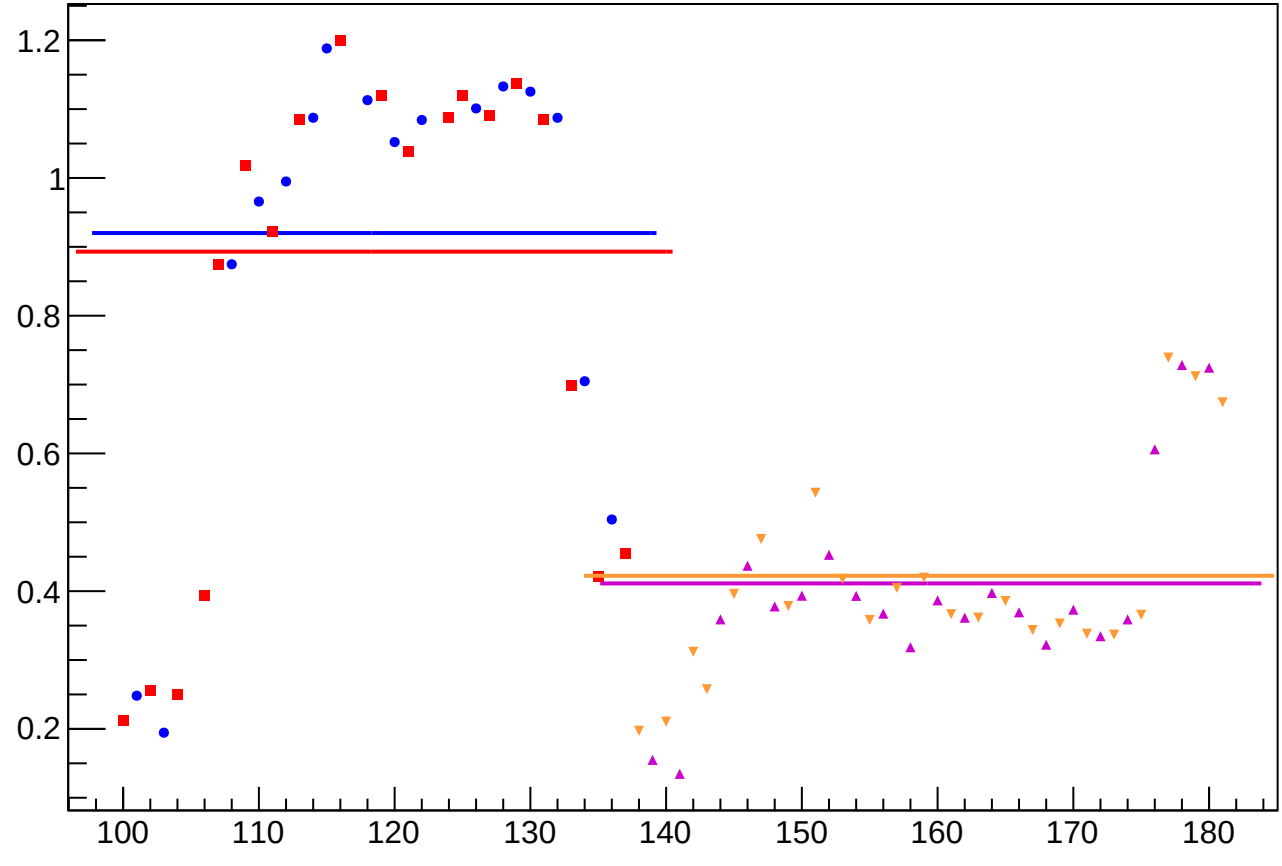
Right: 0.002+/-0.000 $\chi^2$/NDF: 325489.2/34

In: 0.002+/-0.000 $\chi^2$/NDF:657939.5/36

Out: 0.002+/-0.000 $\chi^2$/NDF:643724.0/41

All: 0.002+/-0.000 $\chi^2$/NDF: 1302253.5/78

# yield_bpm2i02X_mean vs Slug, Sign Corrected




Right In: 0.920+/-0.000 $\chi^2$/NDF: 14566431727.4/15

Left Out: 0.422+/-0.000 $\chi^2$/NDF:7342388865.8/22

Right Out: 0.893+/-0.000 $\chi^2$/NDF: 17642154019.1/18

Left In: 0.411+/-0.000 $\chi^2$/NDF:7126671050.8/20

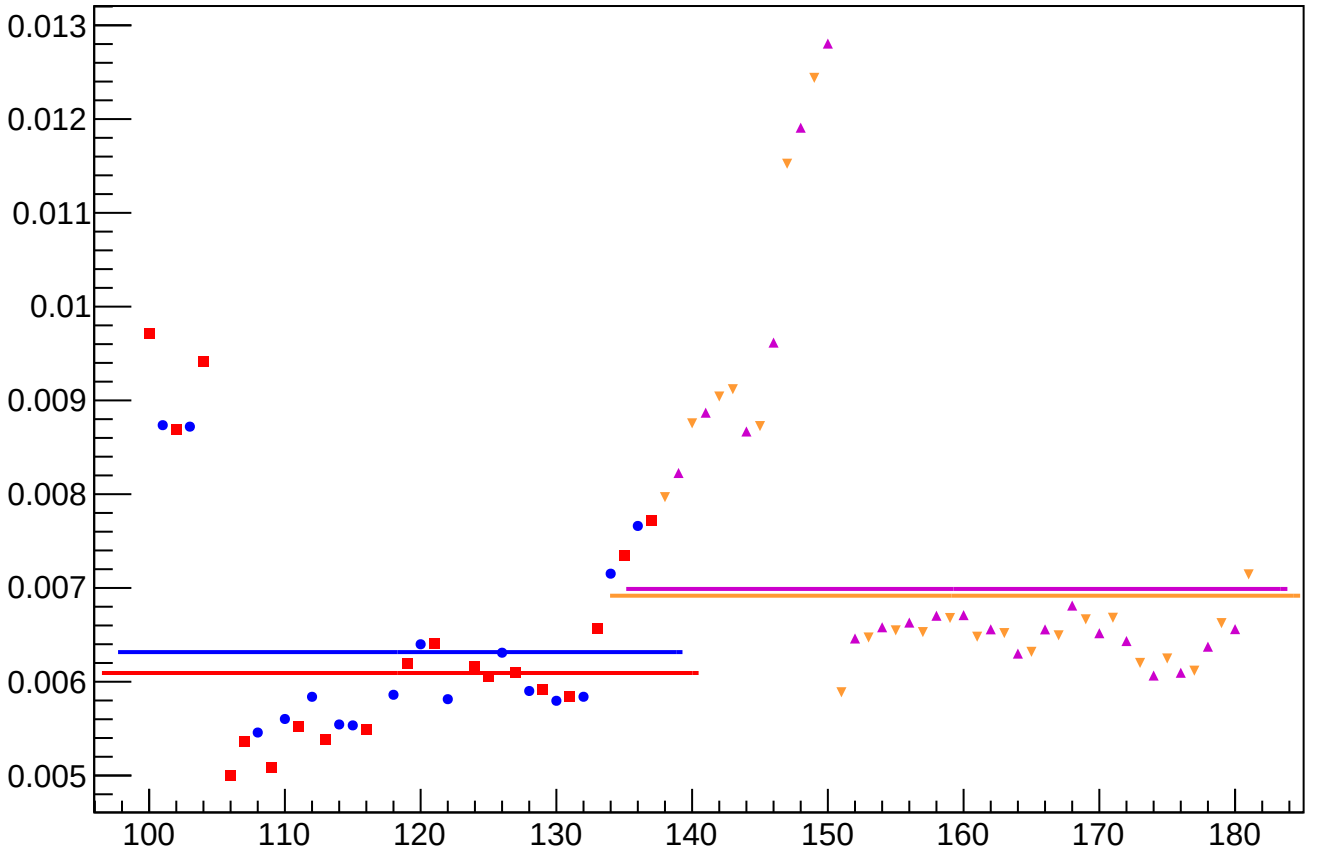
Left: 0.417+/-0.000 $\chi^2$/NDF: 14490875399.3/43

Right: 0.906+/-0.000 $\chi^2$/NDF: 32276058175.7/34

In: 0.585+/-0.000 $\chi^2$/NDF:51672280737.0/36

Out: 0.585+/-0.000 $\chi^2$/NDF:53283391175.2/41

All: 0.585+/-0.000 $\chi^2$/NDF: 104955742571.1




Right In: 0.006+/-0.000 $\chi^2$/NDF: 335709.2/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1081819.4/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 435933.6/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:1135760.8/20

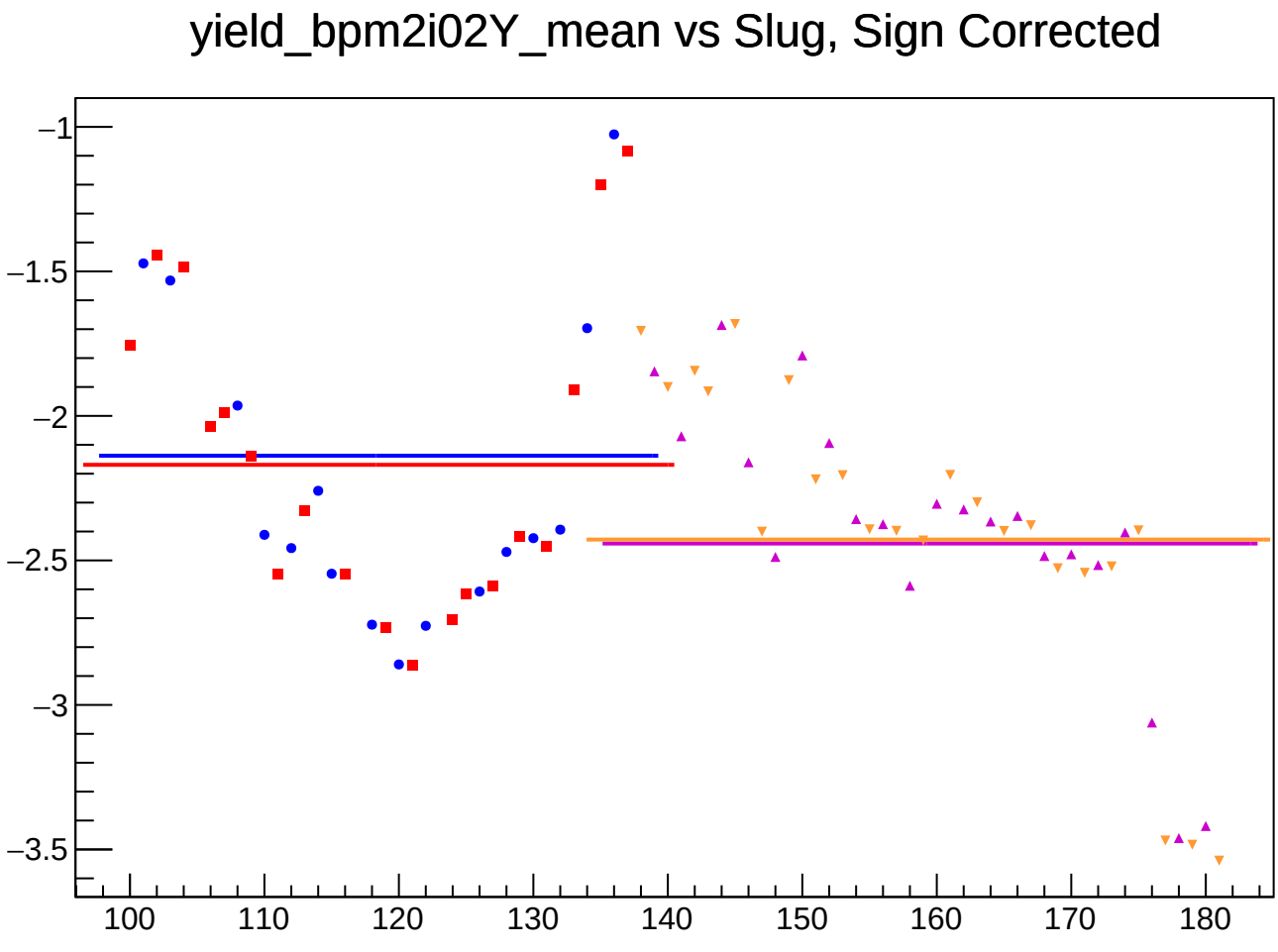
Left: 0.007+/-0.000 $\chi^2$/NDF: 2219421.5/43

Right: 0.006+/-0.000 $\chi^2$/NDF: 780835.2/34

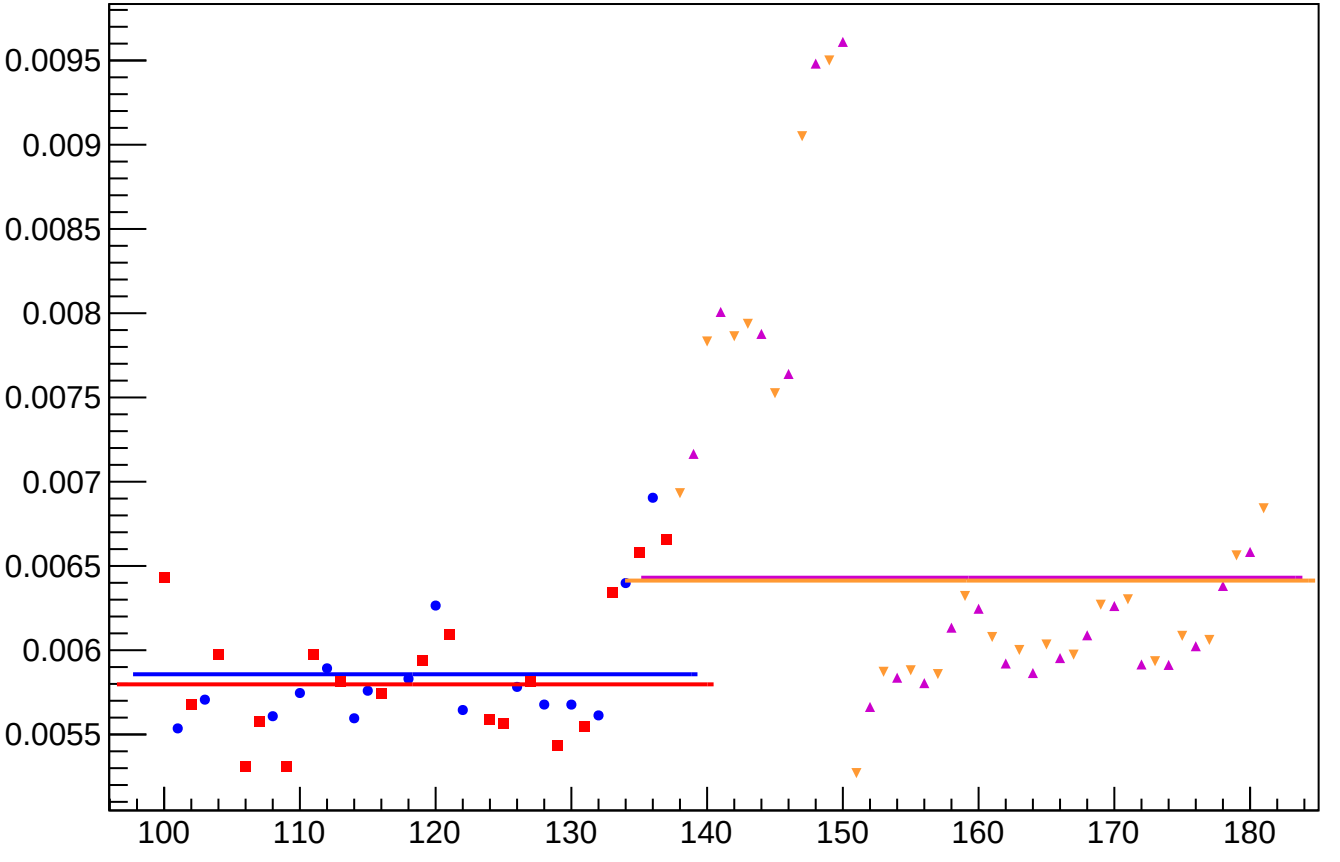
In: 0.007+/-0.000 $\chi^2$/NDF:1576524.2/36

Out: 0.007+/-0.000 $\chi^2$/NDF:1691295.3/41

All: 0.007+/-0.000 $\chi^2$/NDF: 3276615.1/78


yield_bpm2i02Y_mean vs Slug, Sign Corrected
−1
−1.5
−2
−2.5
−3
−3.5
100
110
120
130
140
150
160
170
180
Right In: -2.138+/-0.000 χ²/NDF: 65666622158.4/15
Left Out: -2.428+/-0.000 χ²/NDF:100376270616.4/22
Right Out: -2.169+/-0.000 χ²/NDF: 57409196879.6/18
Left In: -2.442+/-0.000 χ²/NDF:74023721311.6/20
Left: -2.434+/-0.000 χ²/NDF: 174439253421.0/43
Right: -2.154+/-0.000 χ²/NDF: 123181980201.2/34
In: -2.338+/-0.000 χ²/NDF:152452821439.9/36
Out: -2.341+/-0.000 χ²/NDF:167613693059.3/41
All: -2.340+/-0.000 χ²/NDF: 320068027499.8

# yield_bpm2i02Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 61946.9/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:681844.8/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 56374.2/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:703741.7/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 1385707.9/43

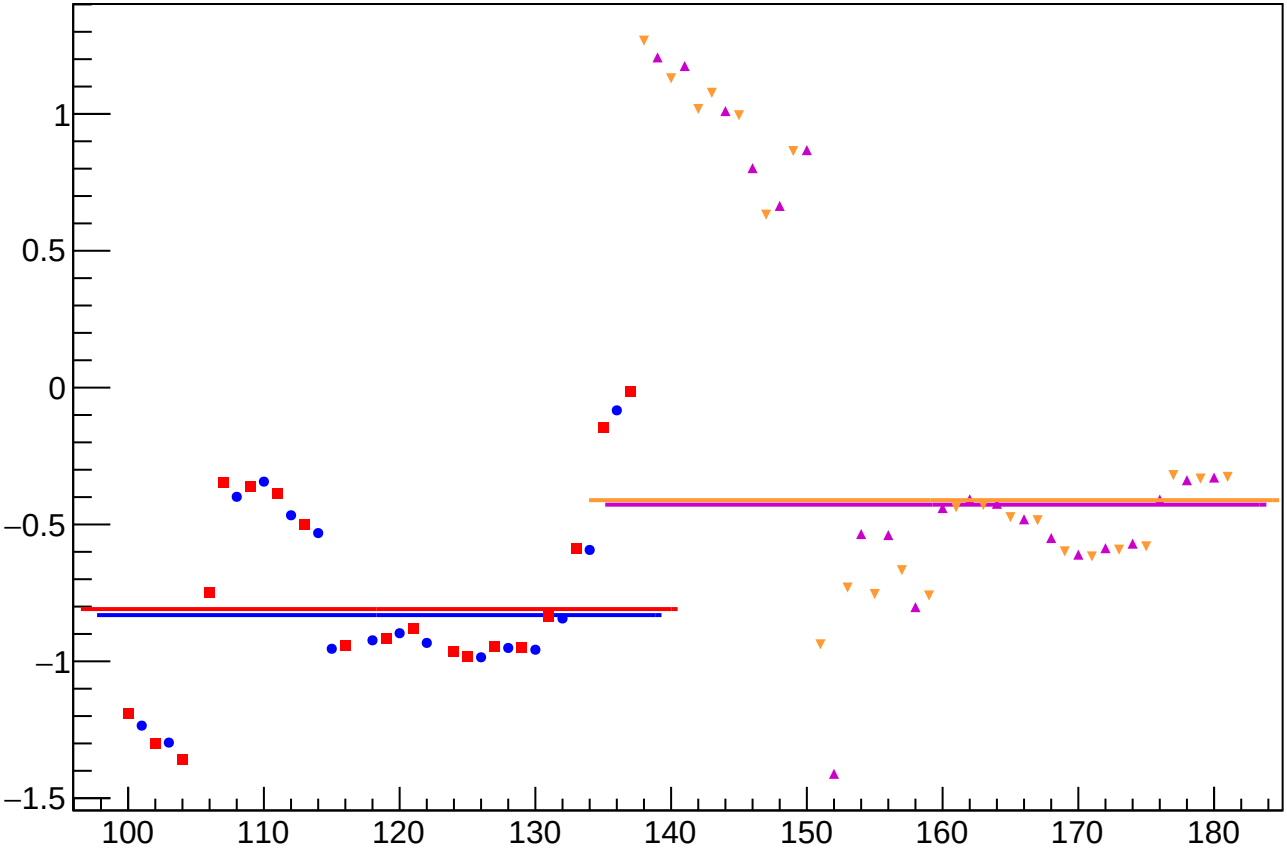
Right: 0.006+/-0.000 $\chi^2$/NDF: 119093.4/34

In: 0.006+/-0.000 $\chi^2$/NDF:856567.8/36

Out: 0.006+/-0.000 $\chi^2$/NDF:849687.1/41

All: 0.006+/-0.000 $\chi^2$/NDF: 1706837.7/78

# yield_bpm0i01X_mean vs Slug, Sign Corrected




Right In: -0.831+/-0.000 $\chi^2$/NDF: 7112259663.3/15

Left Out: -0.411+/-0.000 $\chi^2$/NDF:81465173812.3/22

Right Out: -0.809+/-0.000 $\chi^2$/NDF: 8146337898.7/18

Left In: -0.428+/-0.000 $\chi^2$/NDF:90032191506.0/20

Left: -0.419+/-0.000 $\chi^2$/NDF: 171541474253.3/43

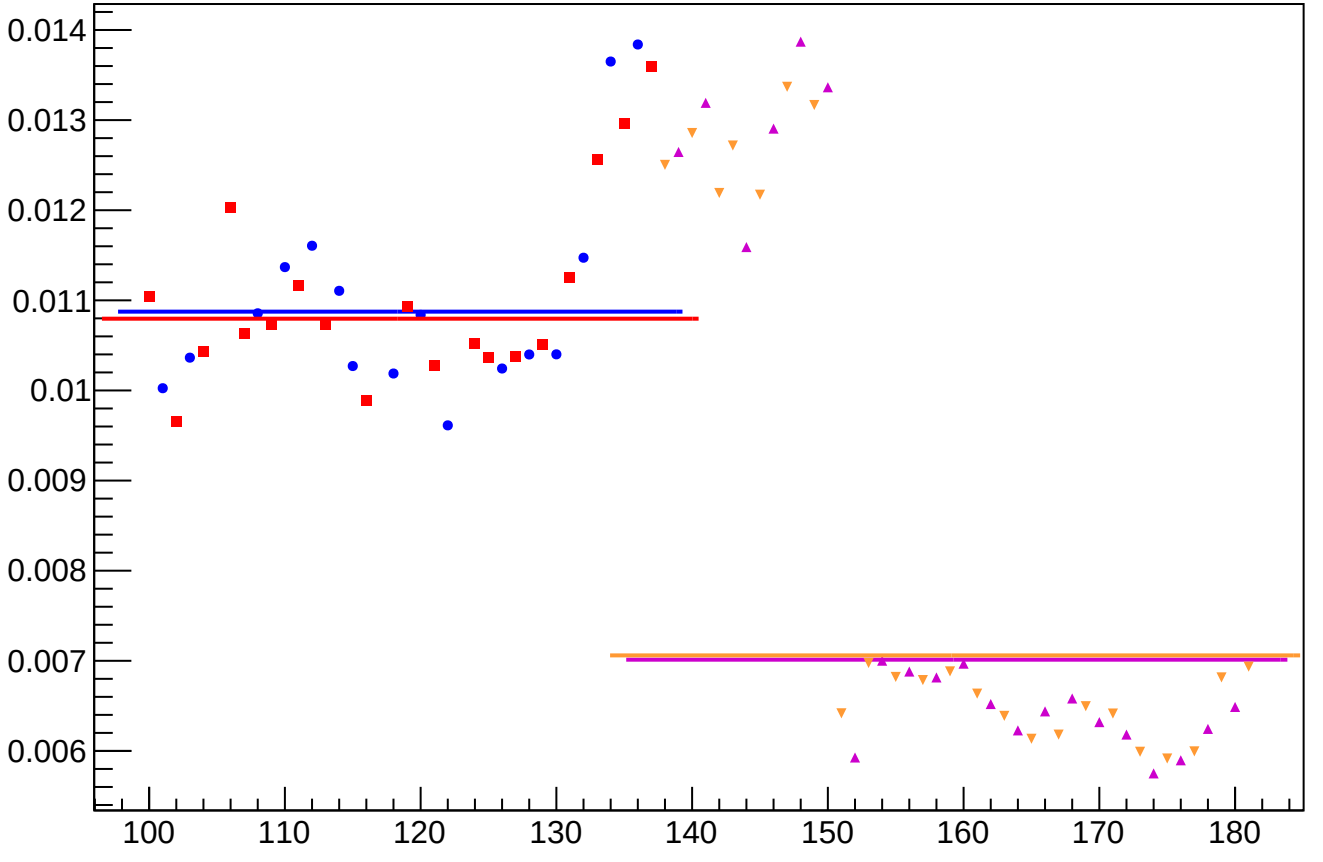
Right: -0.820+/-0.000 $\chi^2$/NDF: 15273298764.6/34

In: -0.491+/-0.000 $\chi^2$/NDF:105309741749.7/36

Out: -0.473+/-0.000 $\chi^2$/NDF:97899024895.5/41

All: -0.482+/-0.000 $\chi^2$/NDF: 203270056579.3

# yield_bpm0i01X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 157612.7/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:2382362.8/22

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 99122.1/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:2456236.1/20

Left: 0.007+/-0.000 $\chi^2$/NDF: 4839343.1/43

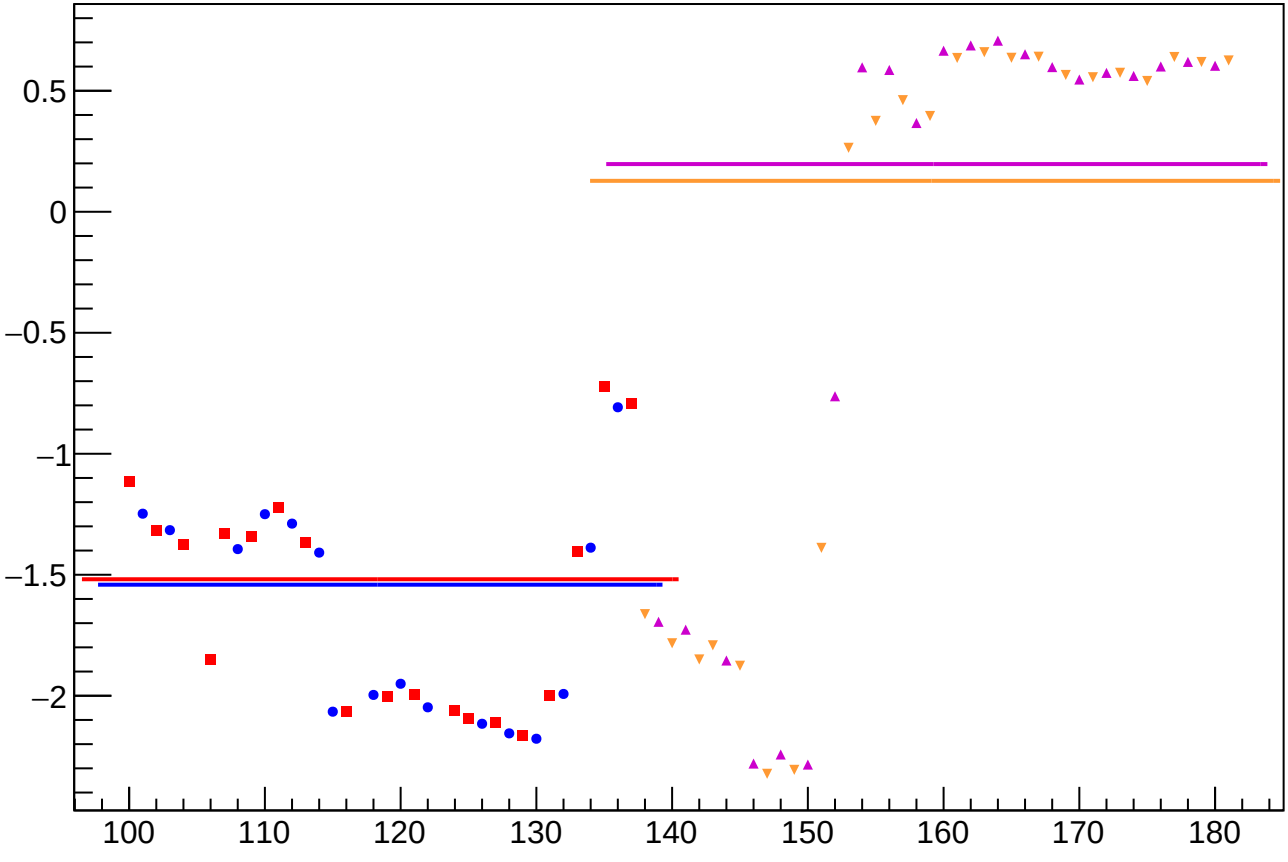
Right: 0.011+/-0.000 $\chi^2$/NDF: 257107.2/34

In: 0.008+/-0.000 $\chi^2$/NDF:4110121.4/36

Out: 0.008+/-0.000 $\chi^2$/NDF:3942905.7/41

All: 0.008+/-0.000 $\chi^2$/NDF: 8053239.6/78

# yield_bpm0i01Y_mean vs Slug, Sign Corrected




Right In: -1.541+/-0.000 $\chi^2$/NDF: 162409397922.2/15

Left Out: 0.128+/-0.000 $\chi^2$/NDF:2366419442367.1/22

Right Out: -1.519+/-0.000 $\chi^2$/NDF: 145077318641.2/18

Left In: 0.197+/-0.000 $\chi^2$/NDF:2097394673294.0/20

Left: 0.162+/-0.000 $\chi^2$/NDF: 4470292092388.1/43

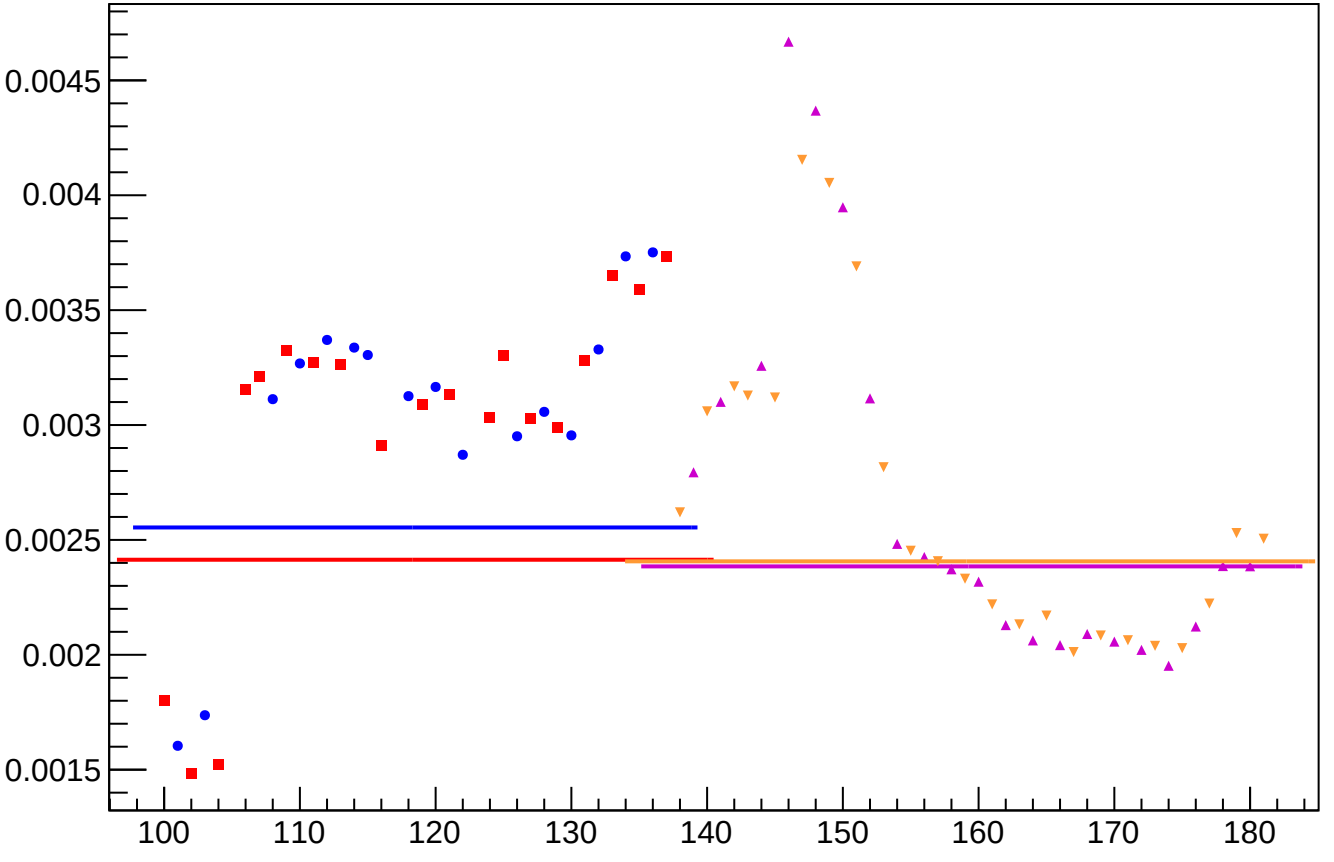
Right: -1.529+/-0.000 $\chi^2$/NDF: 307732116783.0/34

In: -0.257+/-0.000 $\chi^2$/NDF:4333106681976.7/36

Out: -0.313+/-0.000 $\chi^2$/NDF:4529474343267.6/41

All: -0.286+/-0.000 $\chi^2$/NDF: 8868527392615

# yield_bpm0i01Y_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 1172434.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1212396.6/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 1546830.8/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1399533.2/20

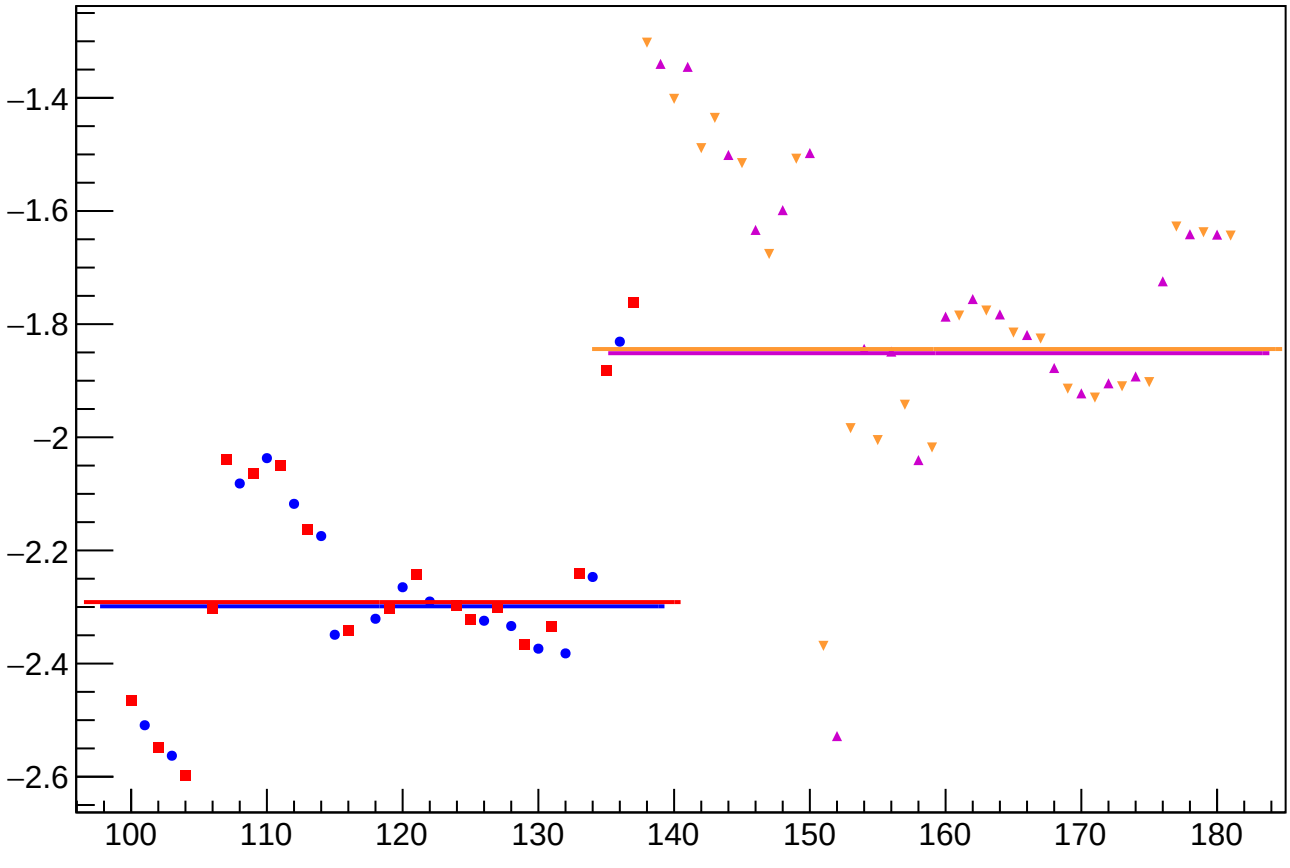
Left: 0.002+/-0.000 $\chi^2$/NDF: 2613235.9/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 2738423.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:2611366.0/36

Out: 0.002+/-0.000 $\chi^2$/NDF:2759299.6/41

All: 0.002+/-0.000 $\chi^2$/NDF: 5372189.0/78




Right In: -2.299+/-0.000 $\chi^2$/NDF: 6129071089.8/15

Left Out: -1.844+/-0.000 $\chi^2$/NDF:36103086339.0/22

Right Out: -2.291+/-0.000 $\chi^2$/NDF: 6831007568.9/18

Left In: -1.851+/-0.000 $\chi^2$/NDF:50987368853.5/20

Left: -1.848+/-0.000 $\chi^2$/NDF: 87114749374.5/43

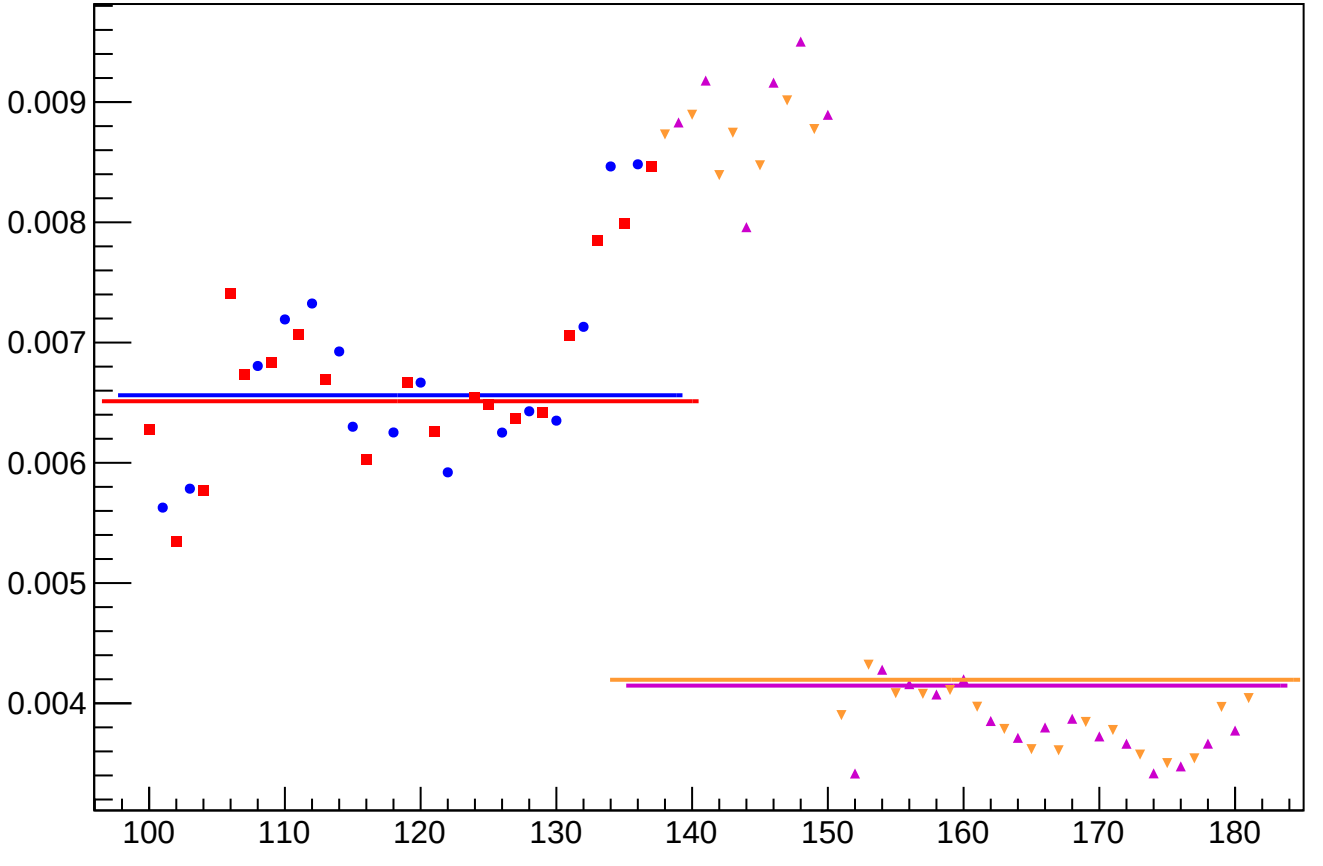
Right: -2.295+/-0.000 $\chi^2$/NDF: 12964639512.9/34

In: -1.921+/-0.000 $\chi^2$/NDF:84308096853.3/36

Out: -1.913+/-0.000 $\chi^2$/NDF:71264317220.0/41

All: -1.917+/-0.000 $\chi^2$/NDF: 155603419670.5

# yield_bpm0i01aX_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 221890.3/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:3091416.6/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 184961.7/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:3193107.2/20

Left: 0.004+/-0.000 $\chi^2$/NDF: 6286640.4/43

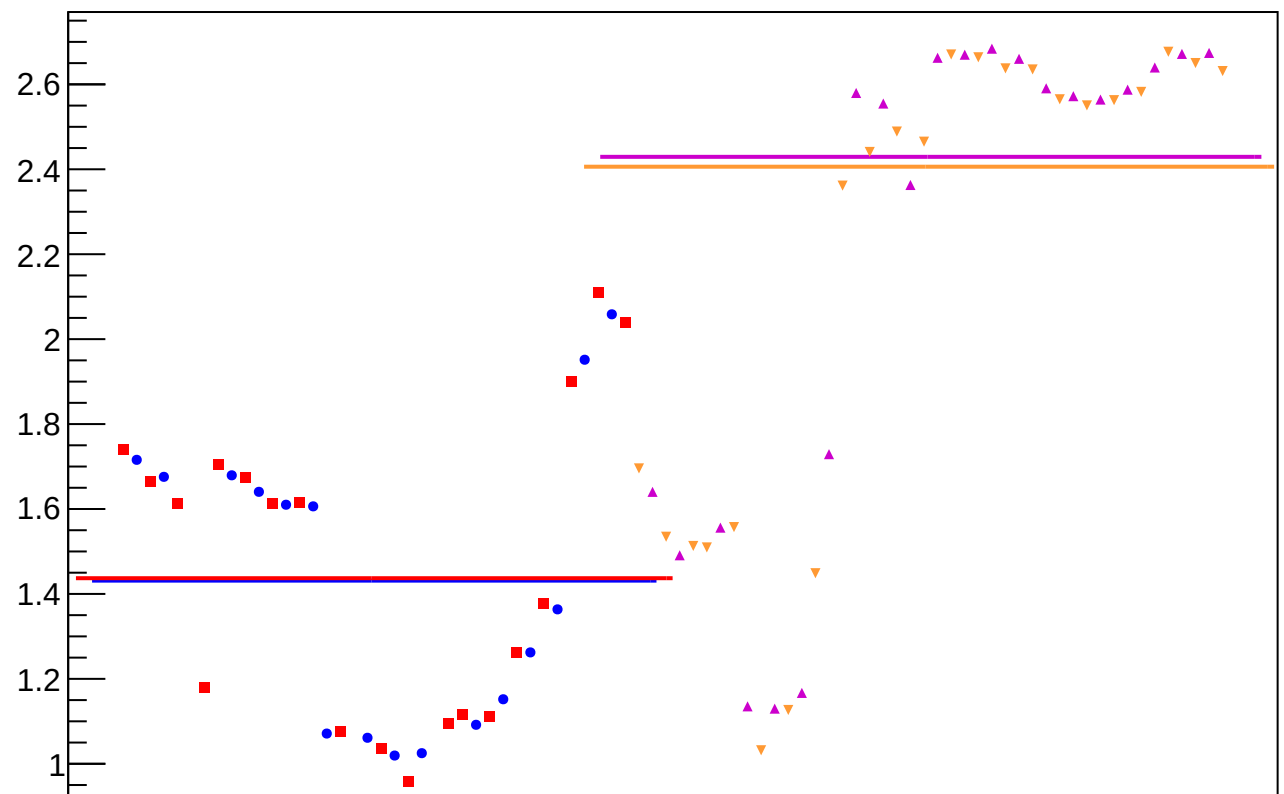
Right: 0.007+/-0.000 $\chi^2$/NDF: 407258.0/34

In: 0.005+/-0.000 $\chi^2$/NDF:4999002.1/36

Out: 0.005+/-0.000 $\chi^2$/NDF:4795668.6/41

All: 0.005+/-0.000 $\chi^2$/NDF: 9795753.5/78

# yield_bpm0i01aY_mean vs Slug, Sign Corrected




Right In: 1.431+/-0.000 $\chi^2$/NDF: 189180734956.1/15

Left Out: 2.406+/-0.000 $\chi^2$/NDF:239696909206.6/22

Right Out: 1.437+/-0.000 $\chi^2$/NDF: 182019221175.5/18

Left In: 2.429+/-0.000 $\chi^2$/NDF:228243905245.6/20

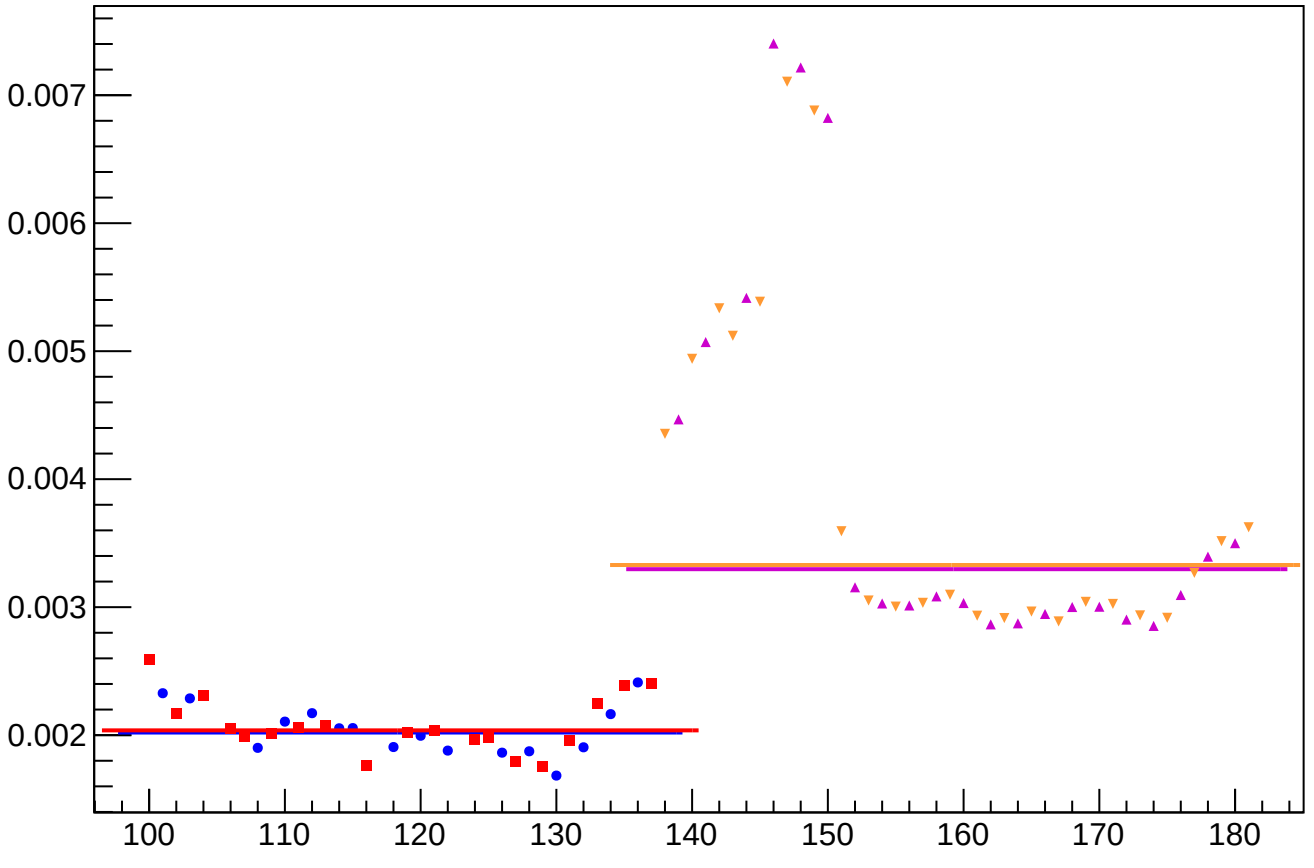
Left: 2.417+/-0.000 $\chi^2$/NDF: 468330522377.6/43

Right: 1.434+/-0.000 $\chi^2$/NDF: 371226177704.8/34

In: 1.894+/-0.000 $\chi^2$/NDF:1168133840496.3/36

Out: 1.898+/-0.000 $\chi^2$/NDF:1151173020368.1/41

All: 1.896+/-0.000 $\chi^2$/NDF: 2319336721315.




Right In: 0.002+/-0.000 $\chi^2$/NDF: 154923.3/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:1784625.1/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 113640.4/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:2025766.0/20

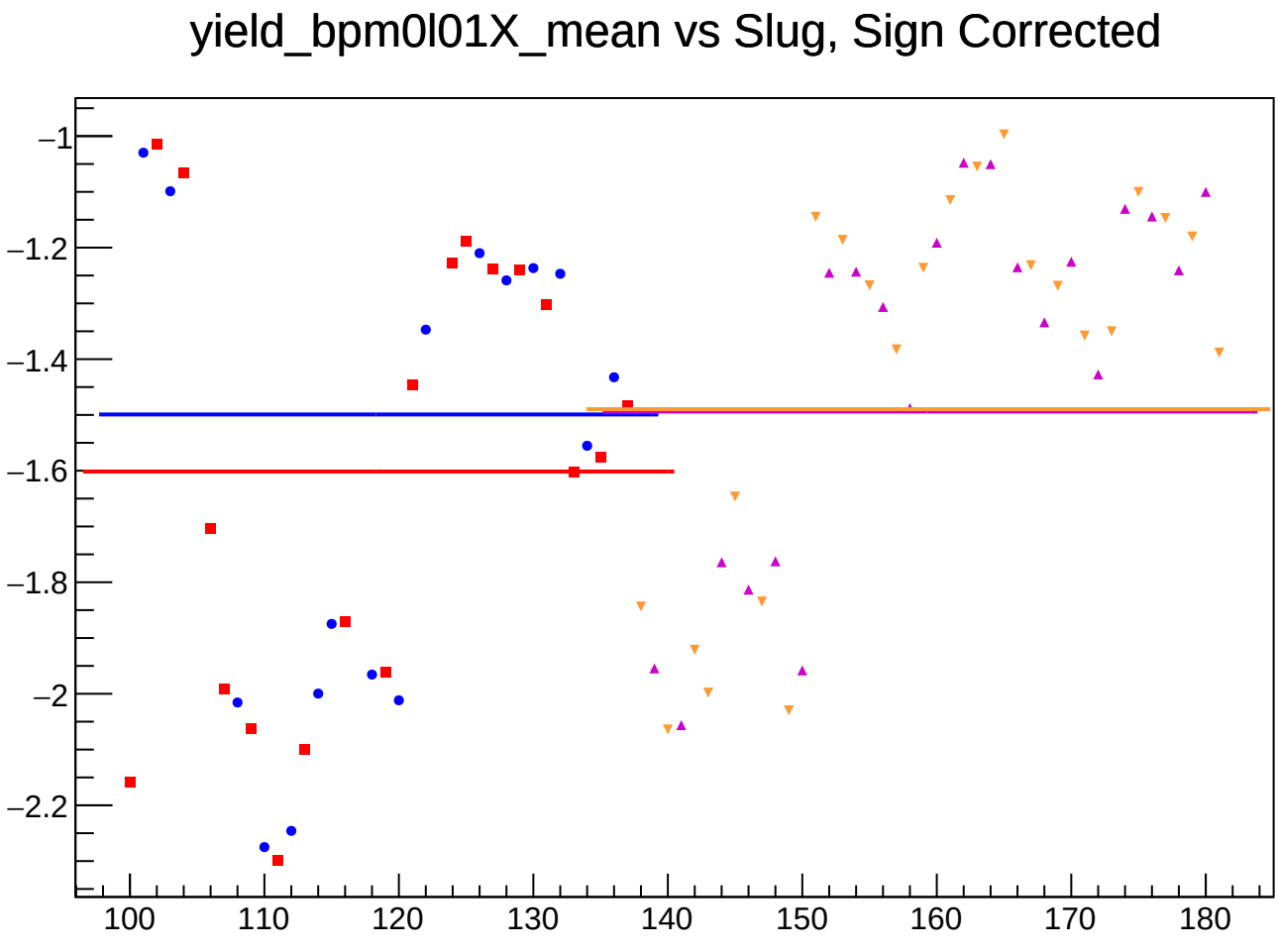
Left: 0.003+/-0.000 $\chi^2$/NDF: 3811919.4/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 269026.9/34

In: 0.003+/-0.000 $\chi^2$/NDF:4635969.8/36

Out: 0.003+/-0.000 $\chi^2$/NDF:4491097.9/41

All: 0.003+/-0.000 $\chi^2$/NDF: 9132061.4/78




Right In: -1.499+/-0.000 $\chi^2$/NDF: 22930357522.2/15

Left Out: -1.490+/-0.000 $\chi^2$/NDF:48097894483.5/22

Right Out: -1.601+/-0.000 $\chi^2$/NDF: 28324914147.6/18

Left In: -1.494+/-0.000 $\chi^2$/NDF:39484204312.8/20

Left: -1.492+/-0.000 $\chi^2$/NDF: 87585349983.0/43

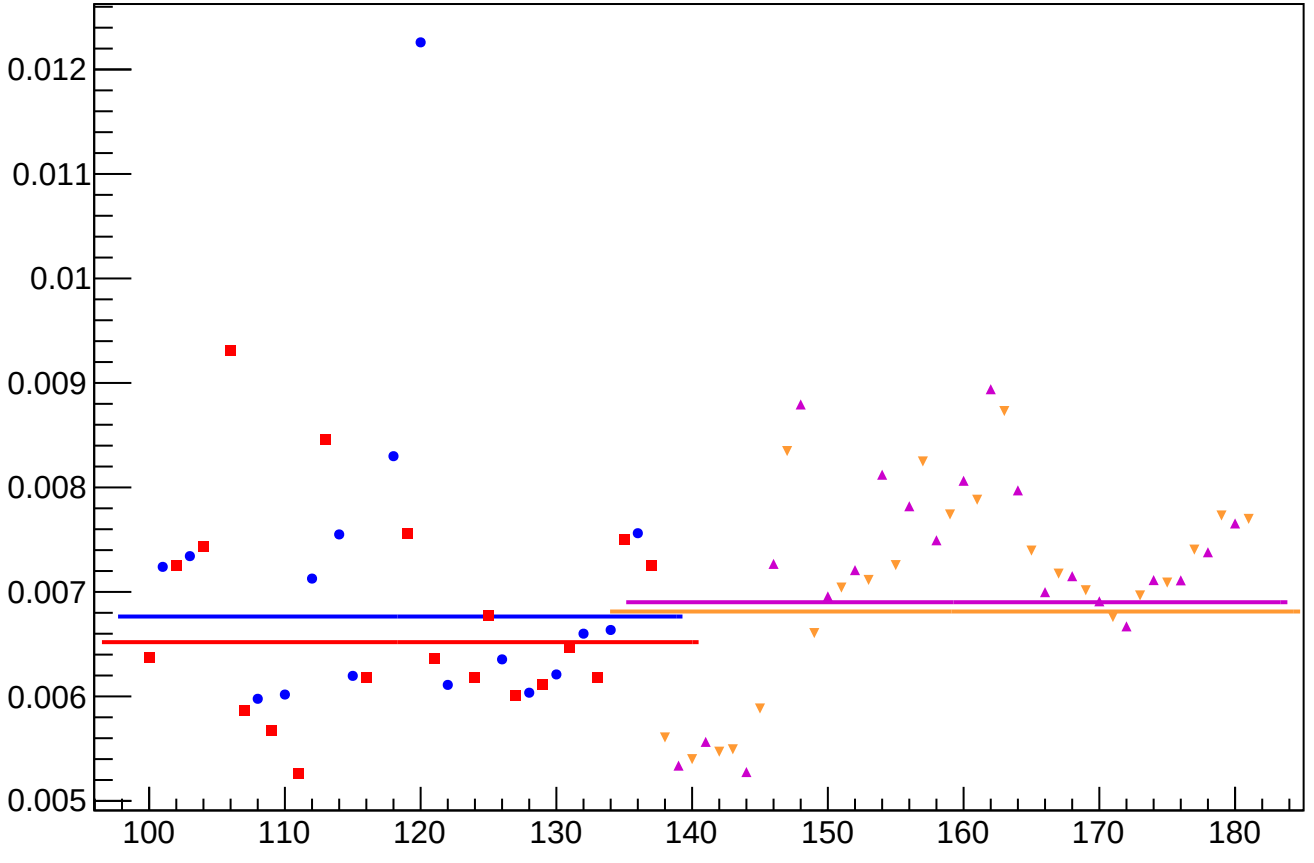
Right: -1.554+/-0.000 $\chi^2$/NDF: 52047267484.5/34

In: -1.496+/-0.000 $\chi^2$/NDF:62417226623.6/36

Out: -1.524+/-0.000 $\chi^2$/NDF:77831220233.7/41

All: -1.510+/-0.000 $\chi^2$/NDF: 140449939745.4

# yield_bpm0l01X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 238566.1/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:667331.1/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 245428.1/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:710341.0/20

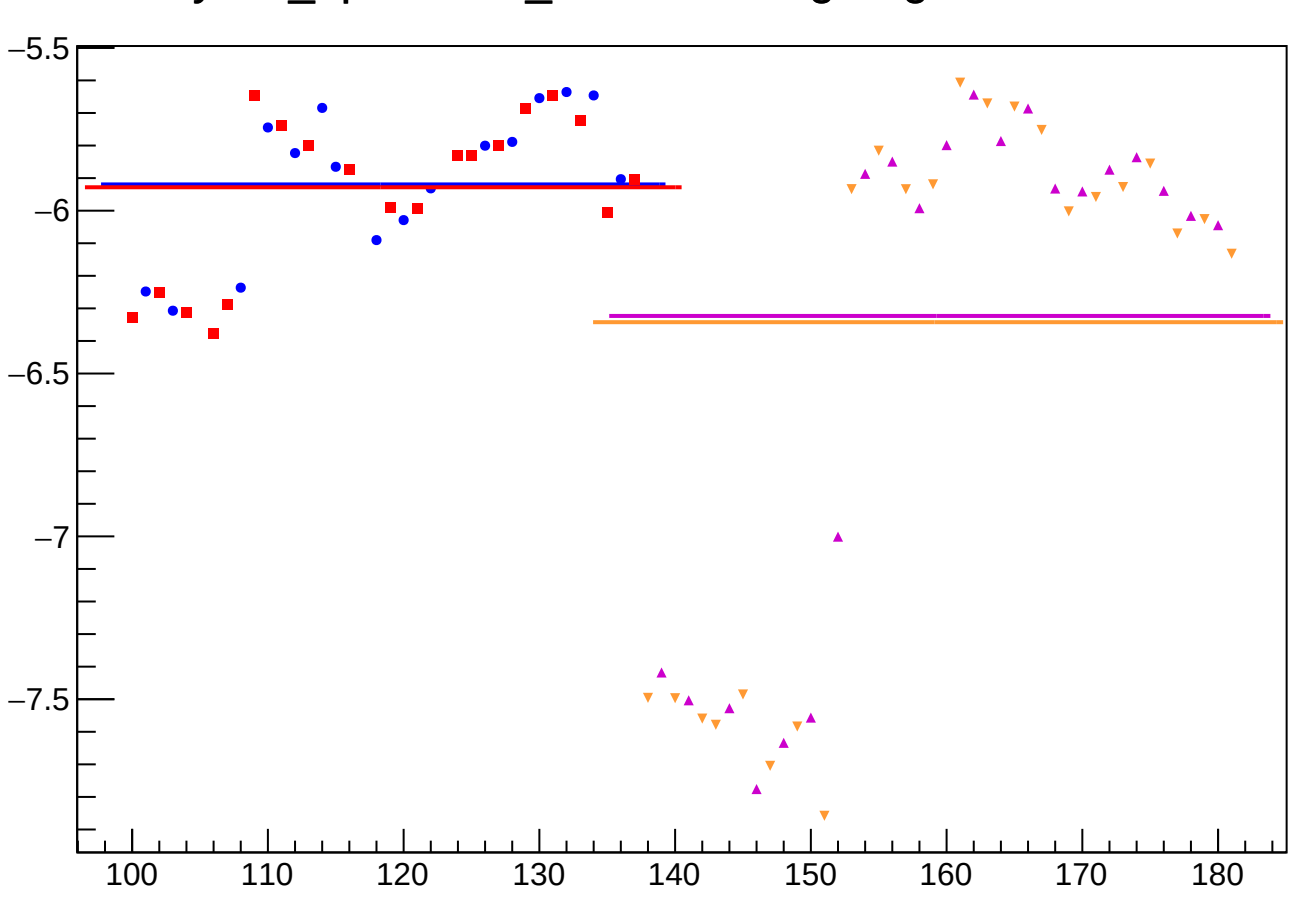
Left: 0.007+/-0.000 $\chi^2$/NDF: 1380451.2/43

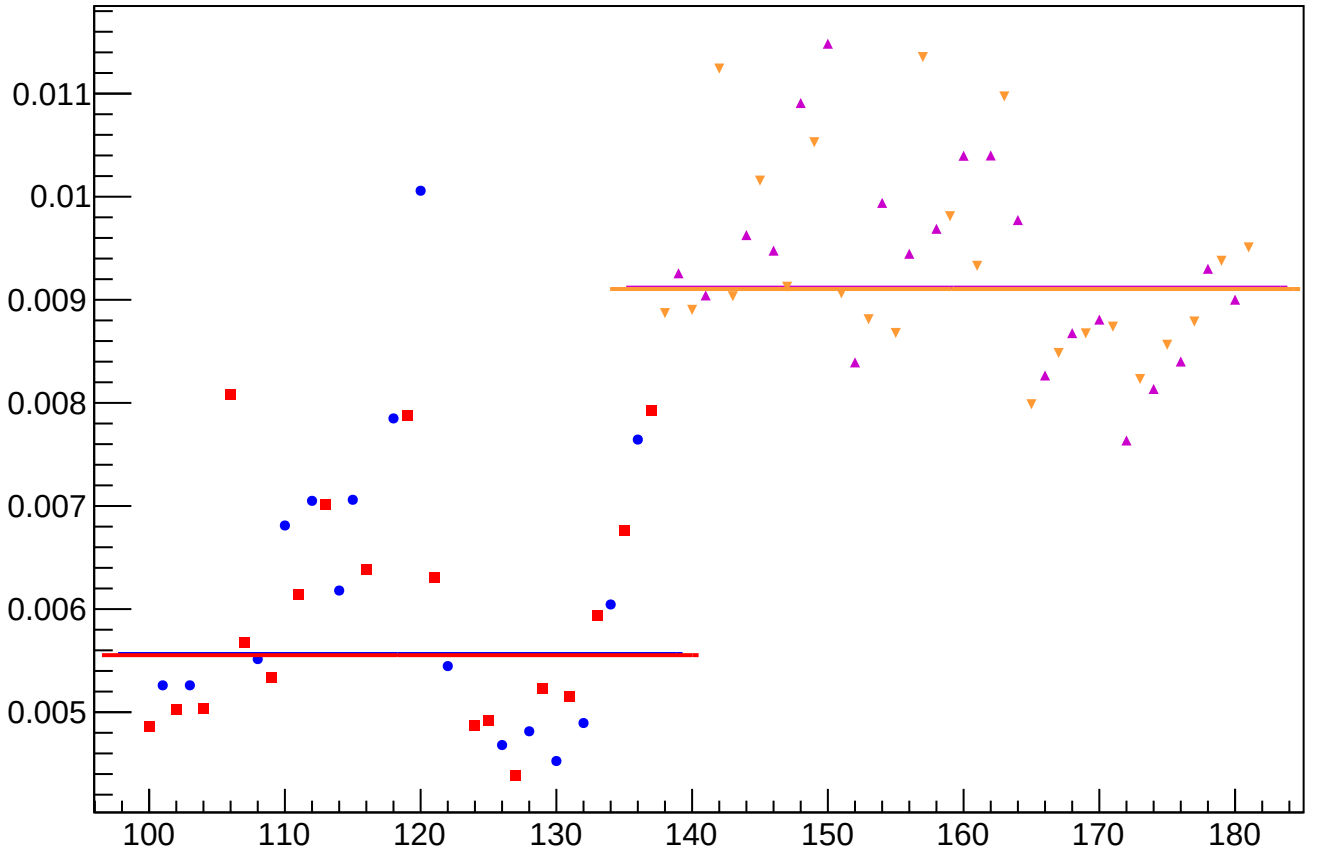
Right: 0.007+/-0.000 $\chi^2$/NDF: 493094.9/34

In: 0.007+/-0.000 $\chi^2$/NDF:952642.4/36

Out: 0.007+/-0.000 $\chi^2$/NDF:932141.9/41

All: 0.007+/-0.000 $\chi^2$/NDF: 1894339.3/78


yield_bpm0l01Y_mean vs Slug, Sign Corrected
−5.5
−6
−6.5
−7
−7.5
100
110
120
130
140
150
160
170
180
Right In: -5.919+/-0.000 χ²/NDF: 11742457053.3/15
Left Out: -6.342+/-0.000 χ²/NDF:109300172723.9/22
Right Out: -5.928+/-0.000 χ²/NDF: 12641528579.2/18
Left In: -6.323+/-0.000 χ²/NDF:91010361643.8/20
Left: -6.333+/-0.000 χ²/NDF: 200343658133.4/43
Right: -5.924+/-0.000 χ²/NDF: 24391751979.3/34
In: -6.109+/-0.000 χ²/NDF:117883340716.3/36
Out: -6.122+/-0.000 χ²/NDF:138876776492.2/41
All: -6.116+/-0.000 χ²/NDF: 256796032743.1




Right In: 0.006+/-0.000 $\chi^2$/NDF: 495546.3/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:232775.6/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 364541.1/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:284581.0/20

Left: 0.009+/-0.000 $\chi^2$/NDF: 517389.1/43

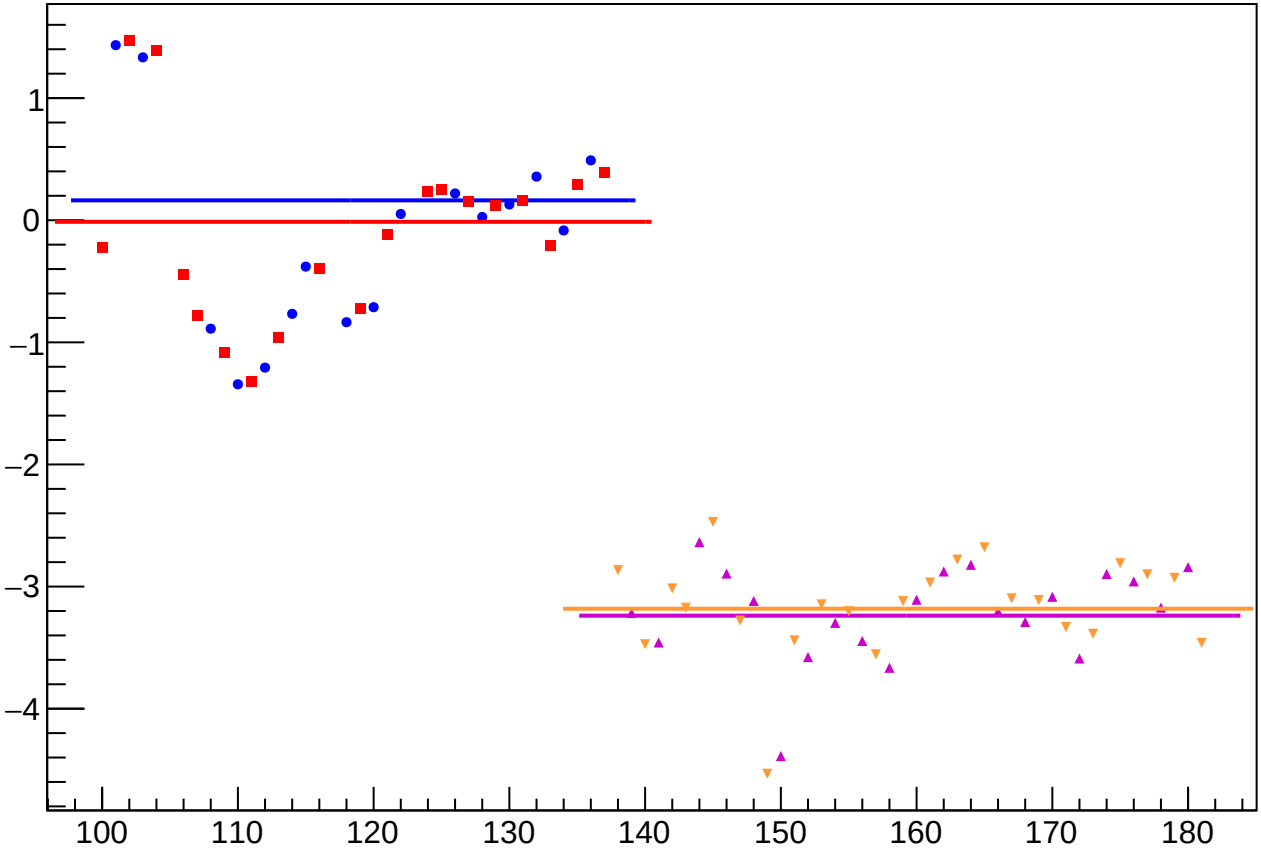
Right: 0.006+/-0.000 $\chi^2$/NDF: 860112.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:3124268.8/36

Out: 0.007+/-0.000 $\chi^2$/NDF:3086916.2/41

All: 0.007+/-0.000 $\chi^2$/NDF: 6211238.2/78

# yield_bpm0l02X_mean vs Slug, Sign Corrected




Right In: 0.163+/-0.000 $\chi^2$/NDF: 17940034444.3/15

Left Out: -3.181+/-0.000 $\chi^2$/NDF:9286470051.5/22

Right Out: -0.013+/-0.000 $\chi^2$/NDF: 22484002798.8/18

Left In: -3.238+/-0.000 $\chi^2$/NDF:7899717022.7/20

Left: -3.209+/-0.000 $\chi^2$/NDF: 17277890198.6/43

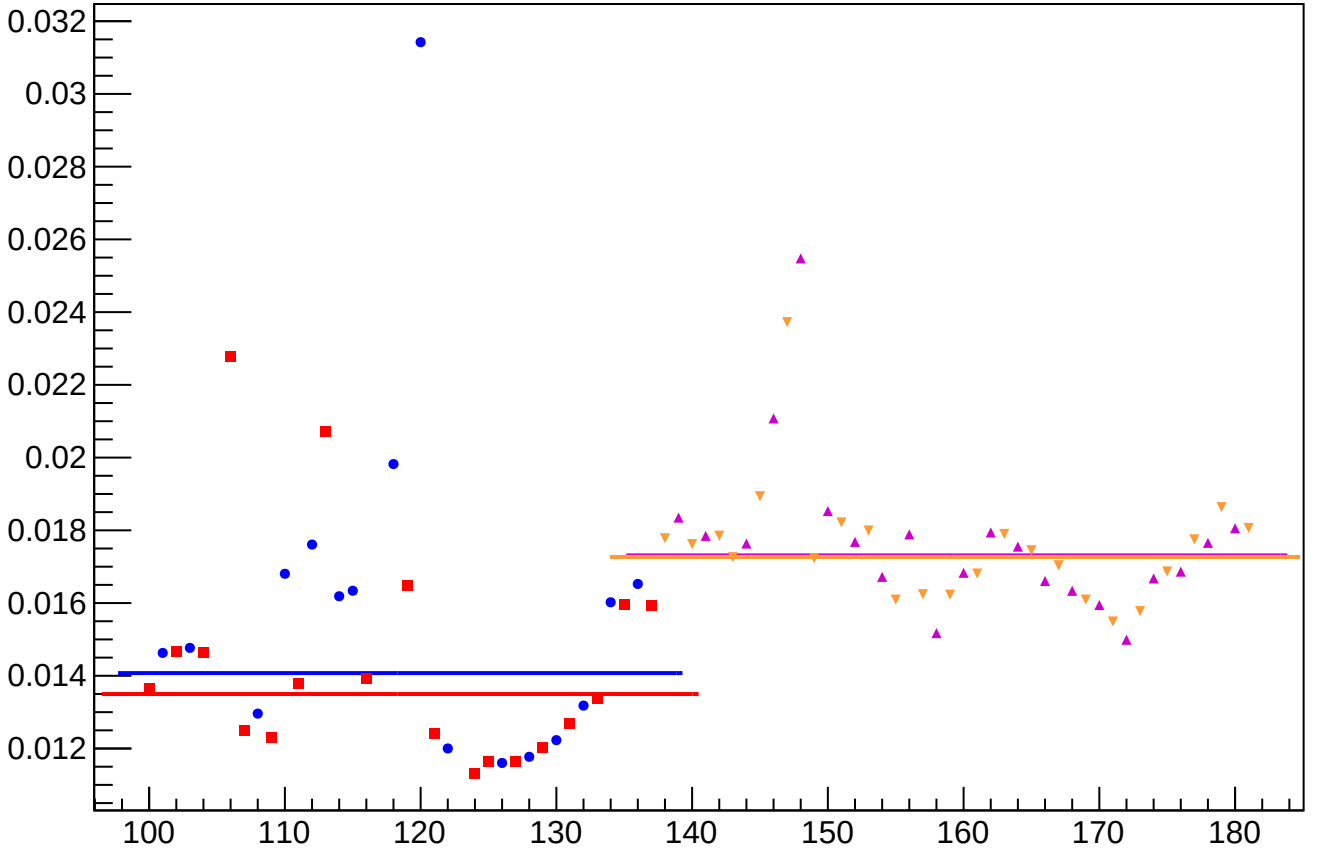
Right: 0.068+/-0.000 $\chi^2$/NDF: 40953433371.5/34

In: -1.990+/-0.000 $\chi^2$/NDF:258929359604.8/36

Out: -1.954+/-0.000 $\chi^2$/NDF:260493471029.4/41

All: -1.971+/-0.000 $\chi^2$/NDF: 519481147929.

# yield_bpm0l02X_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 465421.6/15

Left Out: 0.017+/-0.000 $\chi^2$/NDF:214708.2/22

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 314810.3/18

Left In: 0.017+/-0.000 $\chi^2$/NDF:326956.5/20

Left: 0.017+/-0.000 $\chi^2$/NDF: 541772.3/43

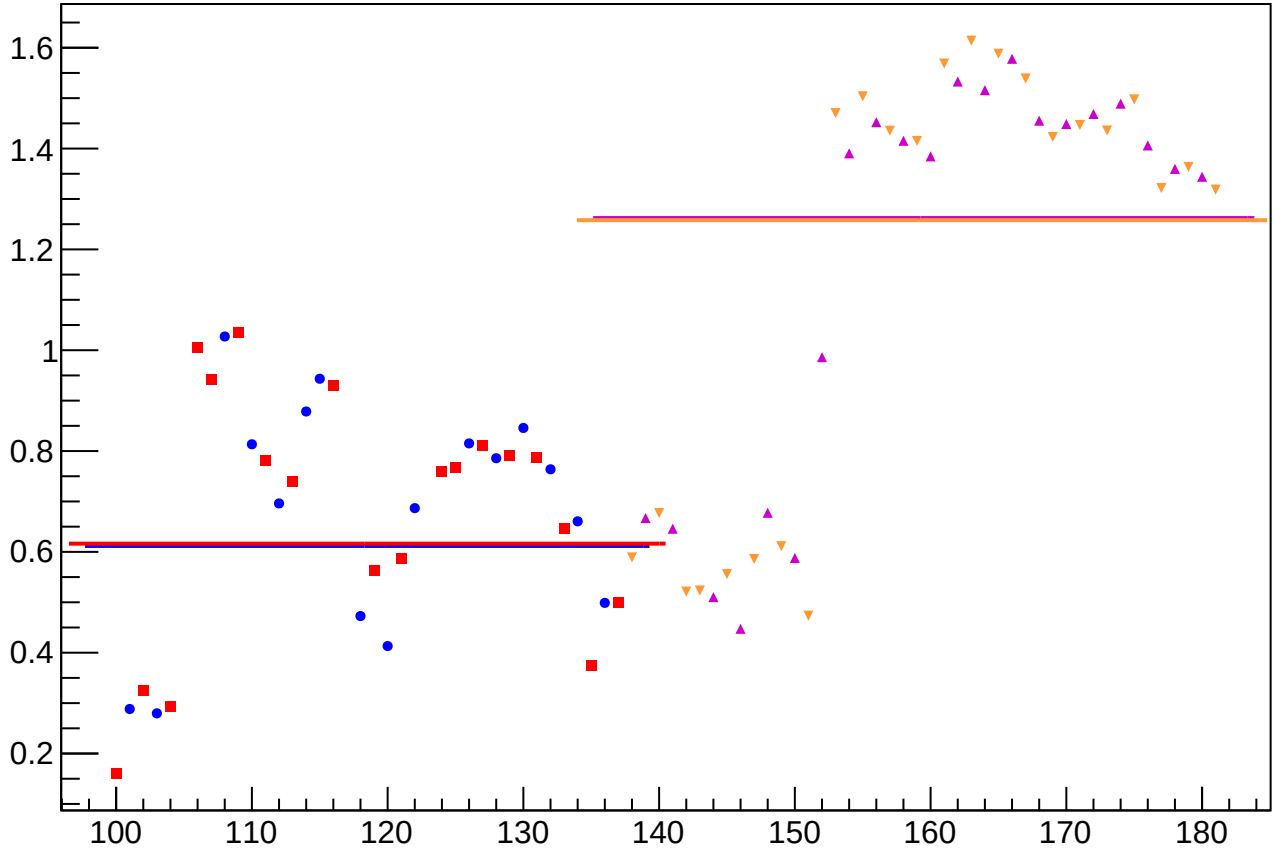
Right: 0.014+/-0.000 $\chi^2$/NDF: 791602.0/34

In: 0.016+/-0.000 $\chi^2$/NDF:1214514.8/36

Out: 0.016+/-0.000 $\chi^2$/NDF:1176663.7/41

All: 0.016+/-0.000 $\chi^2$/NDF: 2400237.4/78

# yield_bpm0l02Y_mean vs Slug, Sign Corrected




Right In: 0.612+/-0.000 $\chi^2$/NDF: 5639014502.0/15

Left Out: 1.258+/-0.000 $\chi^2$/NDF:45291185760.1/22

Right Out: 0.616+/-0.000 $\chi^2$/NDF: 6419512040.7/18

Left In: 1.262+/-0.000 $\chi^2$/NDF:37456482378.3/20

Left: 1.260+/-0.000 $\chi^2$/NDF: 82750577416.1/43

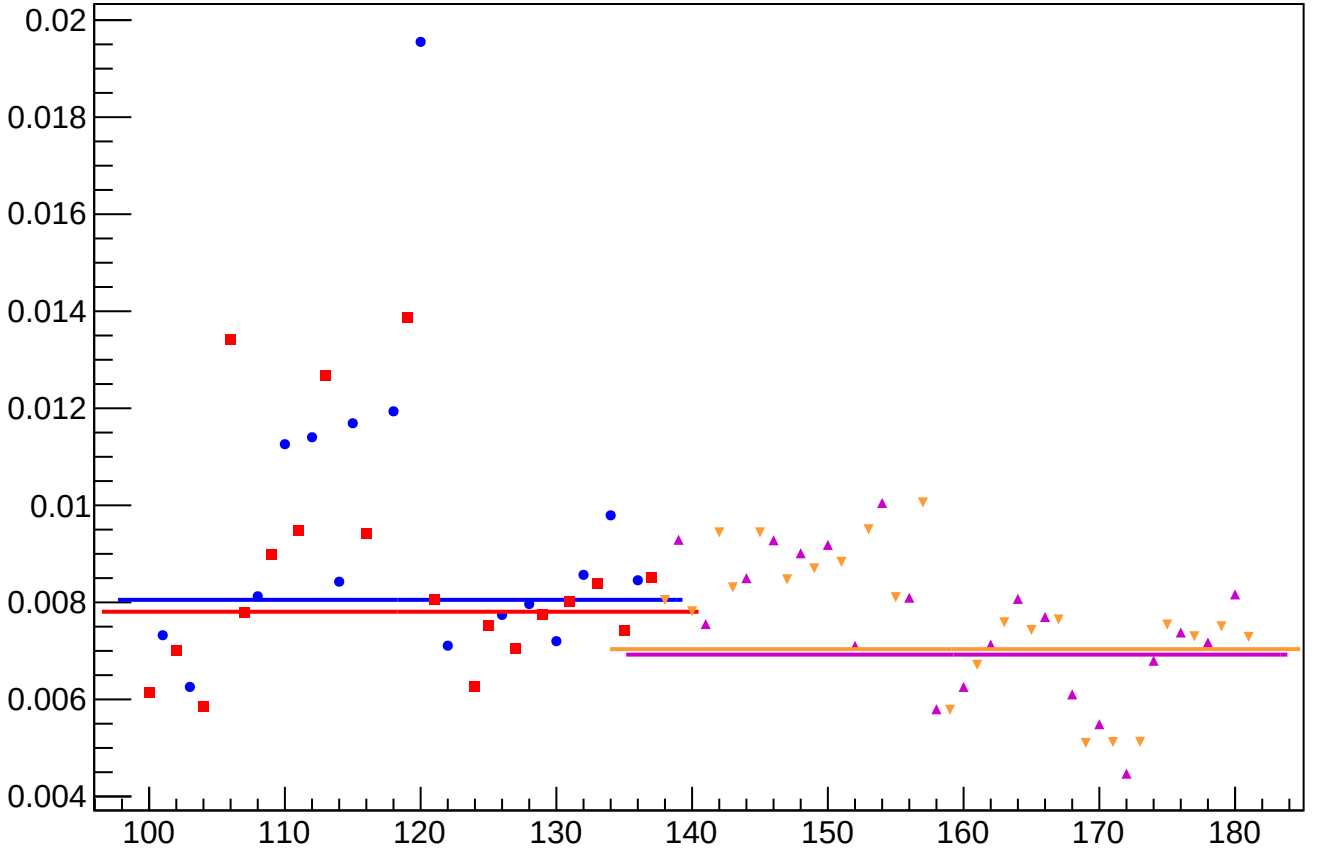
Right: 0.614+/-0.000 $\chi^2$/NDF: 12059563453.6/34

In: 1.113+/-0.000 $\chi^2$/NDF:73917057787.5/36

Out: 1.101+/-0.000 $\chi^2$/NDF:84440817077.8/41

All: 1.107+/-0.000 $\chi^2$/NDF: 158388919621.2

# yield_bpm0l02Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 598309.5/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1409551.8/22

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 587157.2/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:1416581.2/20

Left: 0.007+/-0.000 $\chi^2$/NDF: 2830253.6/43

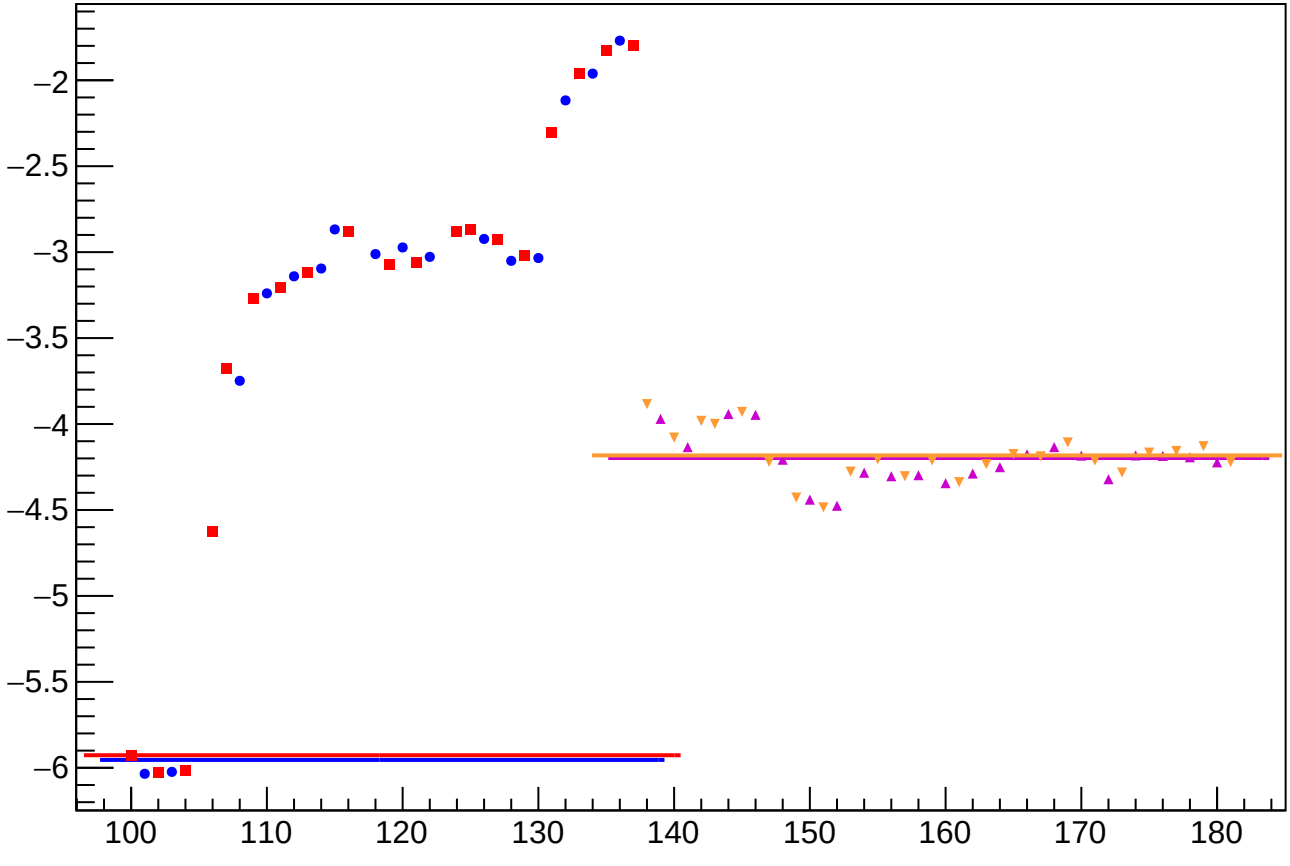
Right: 0.008+/-0.000 $\chi^2$/NDF: 1191469.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:2200624.7/36

Out: 0.007+/-0.000 $\chi^2$/NDF:2091064.4/41

All: 0.007+/-0.000 $\chi^2$/NDF: 4292466.6/78

# yield_bpm0l03X_mean vs Slug, Sign Corrected




Right In: -5.954+/-0.000 $\chi^2$/NDF: 13099475661.5/15

Left Out: -4.183+/-0.000 $\chi^2$/NDF:54323421.9/22

Right Out: -5.927+/-0.000 $\chi^2$/NDF: 13922819741.5/18

Left In: -4.198+/-0.000 $\chi^2$/NDF:41735825.8/20

Left: -4.192+/-0.000 $\chi^2$/NDF: 96383007.6/43

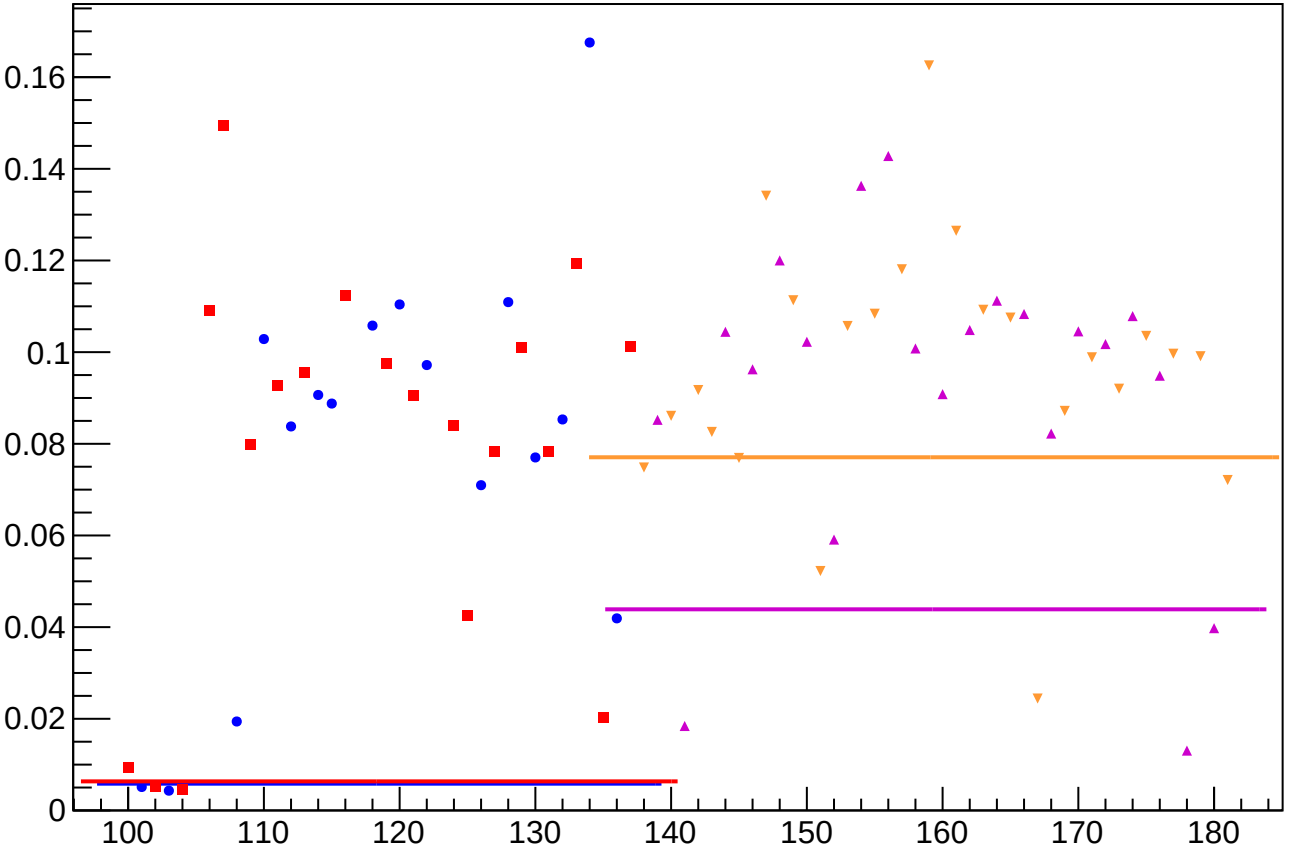
Right: -5.942+/-0.000 $\chi^2$/NDF: 27039435928.9/34

In: -5.832+/-0.000 $\chi^2$/NDF:24183569934.1/36

Out: -5.841+/-0.000 $\chi^2$/NDF:20348776832.3/41

All: -5.836+/-0.000 $\chi^2$/NDF: 44534094313.2/

# yield_bpm0l03X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 8700553.3/15

Left Out: 0.077+/-0.000 $\chi^2$/NDF:4679502.6/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 8751831.3/18

Left In: 0.044+/-0.000 $\chi^2$/NDF:11939130.5/20

Left: 0.056+/-0.000 $\chi^2$/NDF: 19701926.0/43

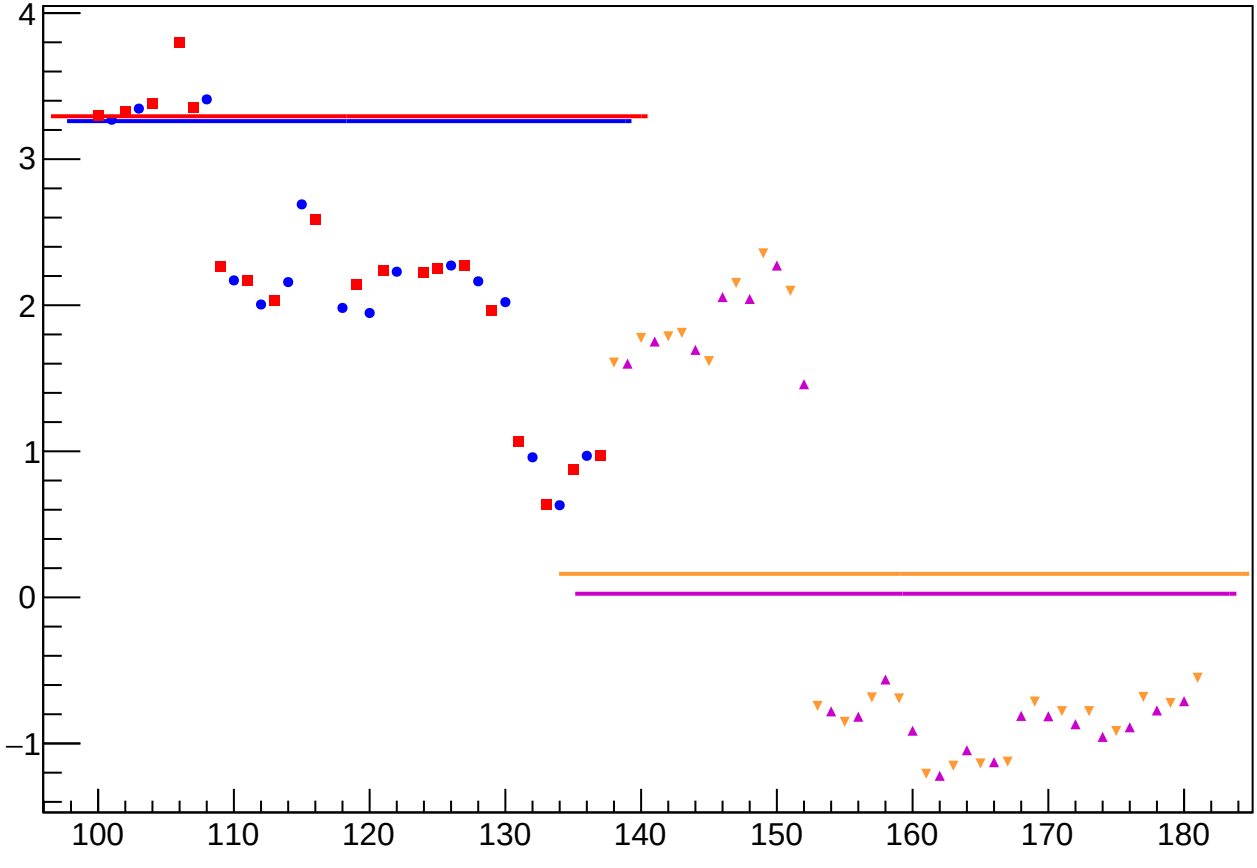
Right: 0.006+/-0.000 $\chi^2$/NDF: 17464019.8/34

In: 0.008+/-0.000 $\chi^2$/NDF:31000292.9/36

Out: 0.010+/-0.000 $\chi^2$/NDF:34374175.8/41

All: 0.009+/-0.000 $\chi^2$/NDF: 65465690.4/78

# yield_bpm0l03Y_mean vs Slug, Sign Corrected




Right In: 3.260+/-0.000 $\chi^2$/NDF: 3009624113.9/15

Left Out: 0.161+/-0.000 $\chi^2$/NDF:3452490085.0/22

Right Out: 3.294+/-0.000 $\chi^2$/NDF: 3243748149.8/18

Left In: 0.025+/-0.000 $\chi^2$/NDF:3382980599.4/20

Left: 0.087+/-0.000 $\chi^2$/NDF: 6854466787.3/43

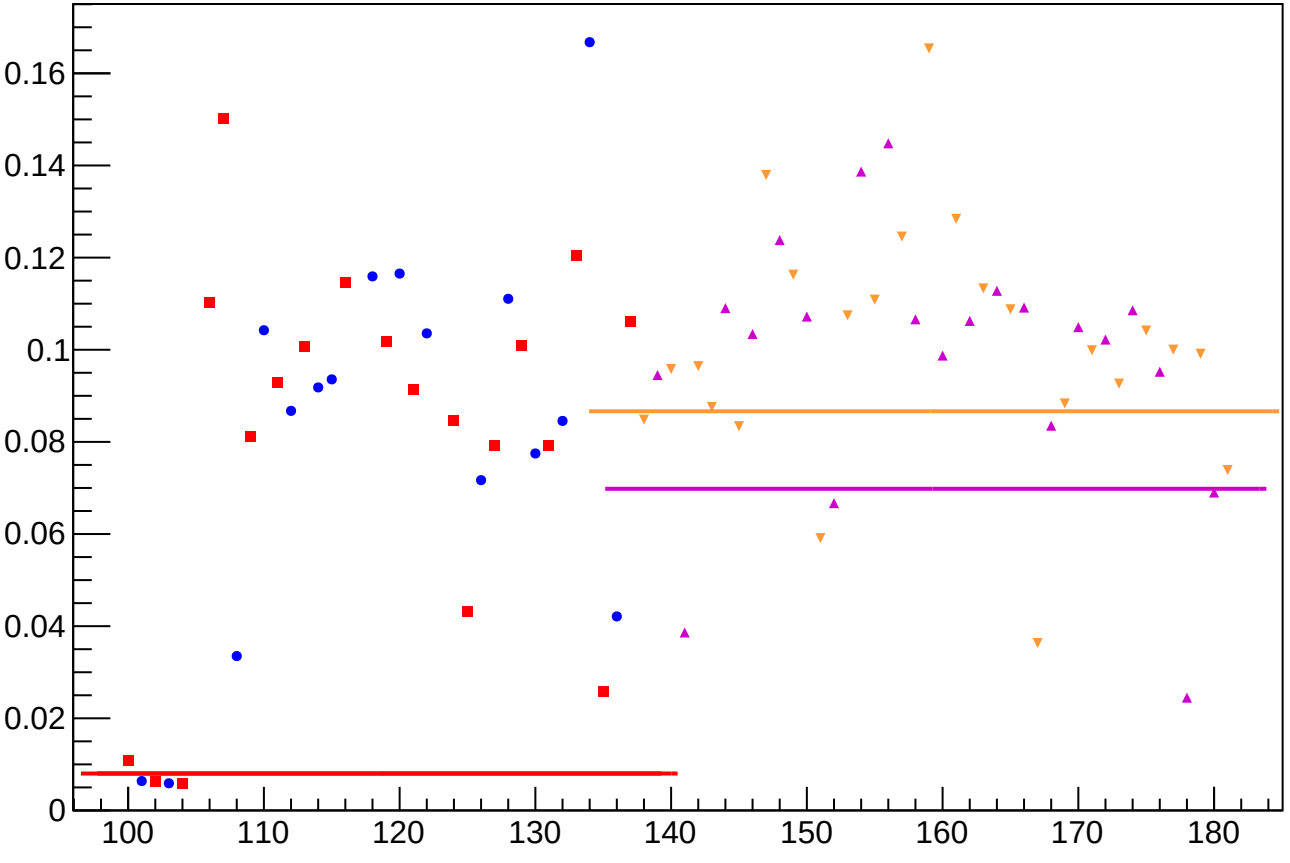
Right: 3.277+/-0.000 $\chi^2$/NDF: 6269939296.1/34

In: 3.042+/-0.000 $\chi^2$/NDF:28290620428.9/36

Out: 3.104+/-0.000 $\chi^2$/NDF:24088001623.0/41

All: 3.072+/-0.000 $\chi^2$/NDF: 52439509756.4/7

# yield_bpm0l03Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 8415681.1/15

Left Out: 0.087+/-0.000 $\chi^2$/NDF:2929885.4/22

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 8542249.7/18

Left In: 0.070+/-0.000 $\chi^2$/NDF:6191159.2/20

Left: 0.078+/-0.000 $\chi^2$/NDF: 9700805.3/43

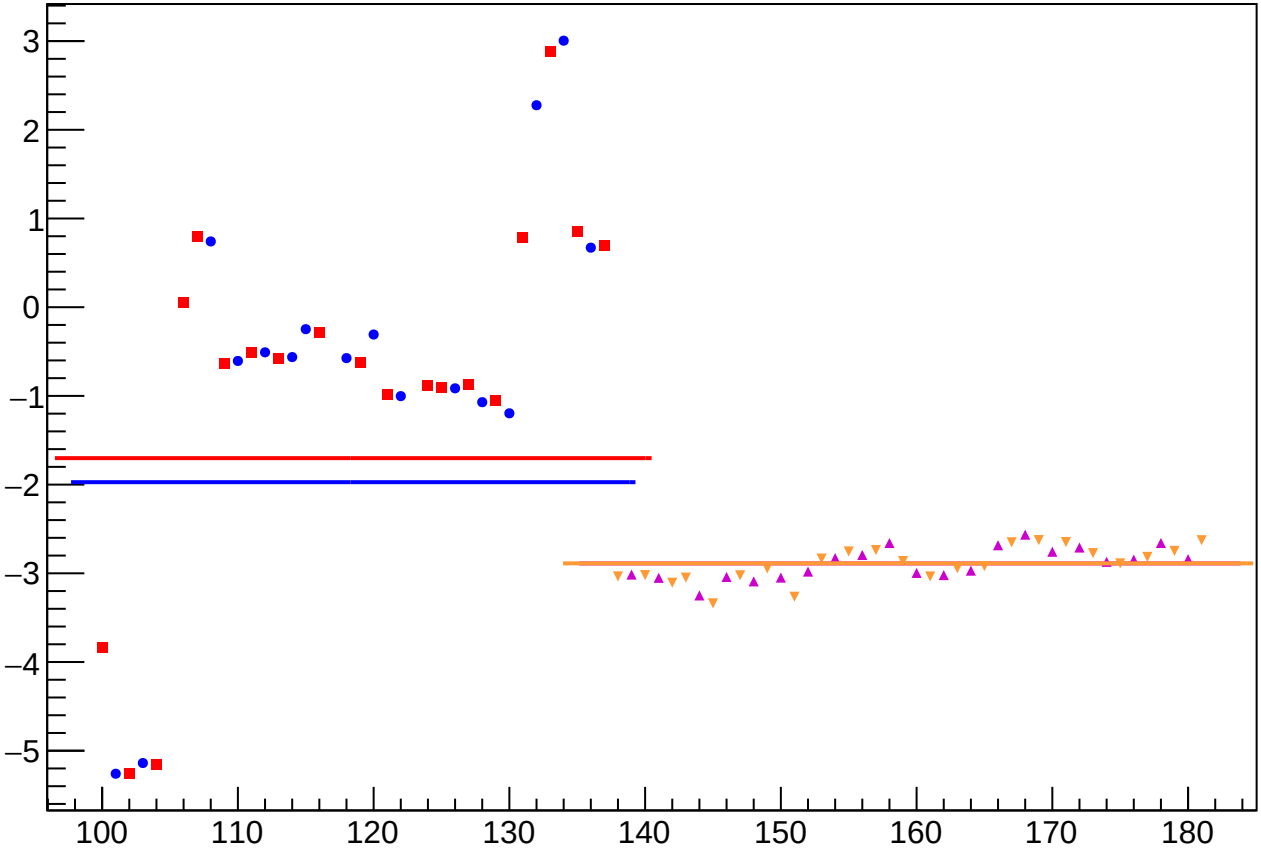
Right: 0.008+/-0.000 $\chi^2$/NDF: 16957931.3/34

In: 0.012+/-0.000 $\chi^2$/NDF:30585377.9/36

Out: 0.013+/-0.000 $\chi^2$/NDF:33384307.4/41

All: 0.012+/-0.000 $\chi^2$/NDF: 63981007.7/78

# yield_bpm0l04X_mean vs Slug, Sign Corrected




Right In: -1.973+/-0.000 $\chi^2$/NDF: 161975701237.3/15

Left Out: -2.888+/-0.000 $\chi^2$/NDF:10228593231.6/22

Right Out: -1.702+/-0.000 $\chi^2$/NDF: 168156981746.0/18

Left In: -2.889+/-0.000 $\chi^2$/NDF:8054328269.4/20

Left: -2.888+/-0.000 $\chi^2$/NDF: 18283071488.9/43

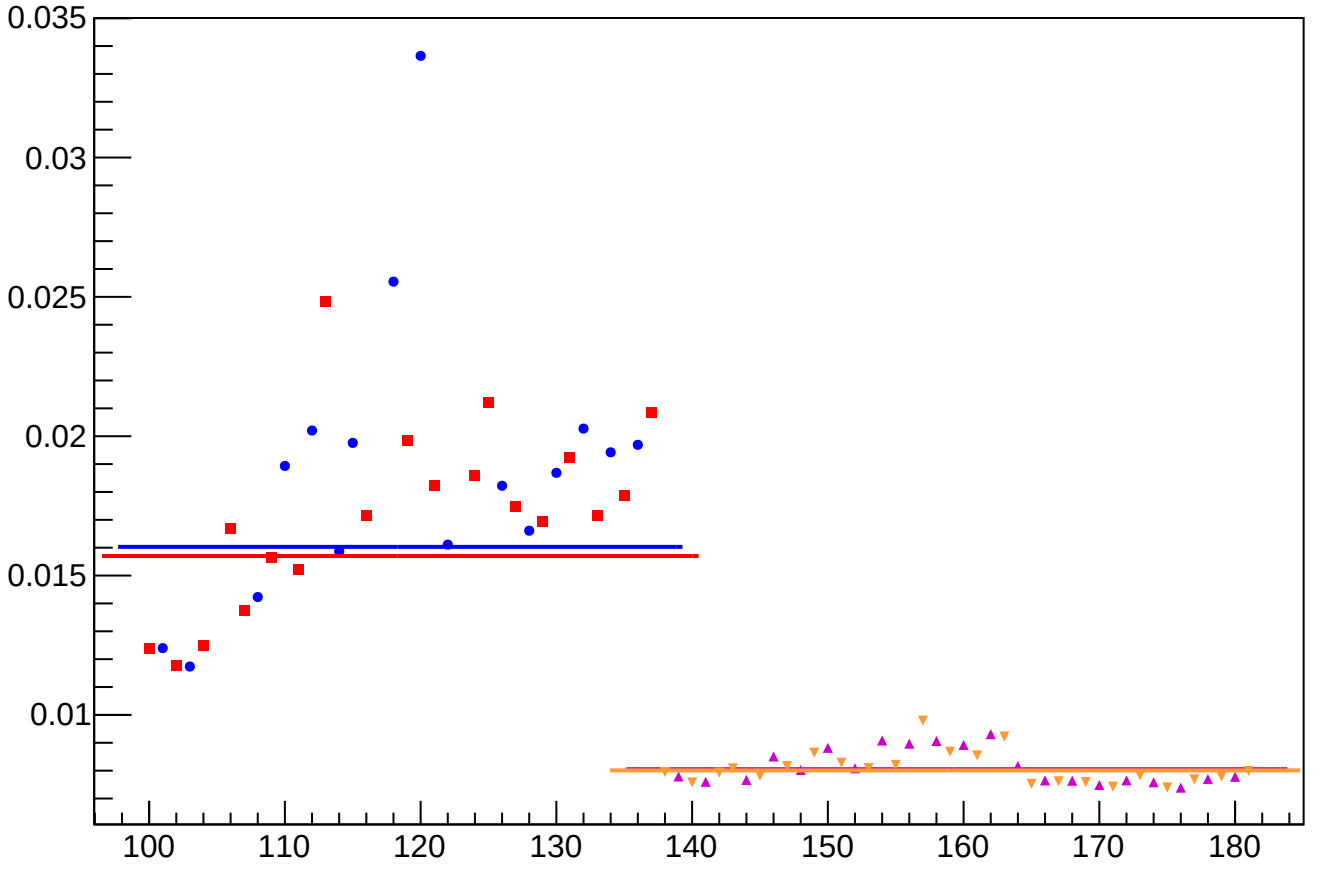
Right: -1.828+/-0.000 $\chi^2$/NDF: 331019535290.3/34

In: -2.814+/-0.000 $\chi^2$/NDF:187482765520.2/36

Out: -2.785+/-0.000 $\chi^2$/NDF:211580464229.0/41

All: -2.799+/-0.000 $\chi^2$/NDF: 399180975398.8

# yield_bpm0l04X_rms vs Slug, Sign Corrected




Right In: 0.016+/-0.000 $\chi^2$/NDF: 735736.8/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:151193.3/22

Right Out: 0.016+/-0.000 $\chi^2$/NDF: 504766.0/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:173592.3/20

Left: 0.008+/-0.000 $\chi^2$/NDF: 325304.1/43

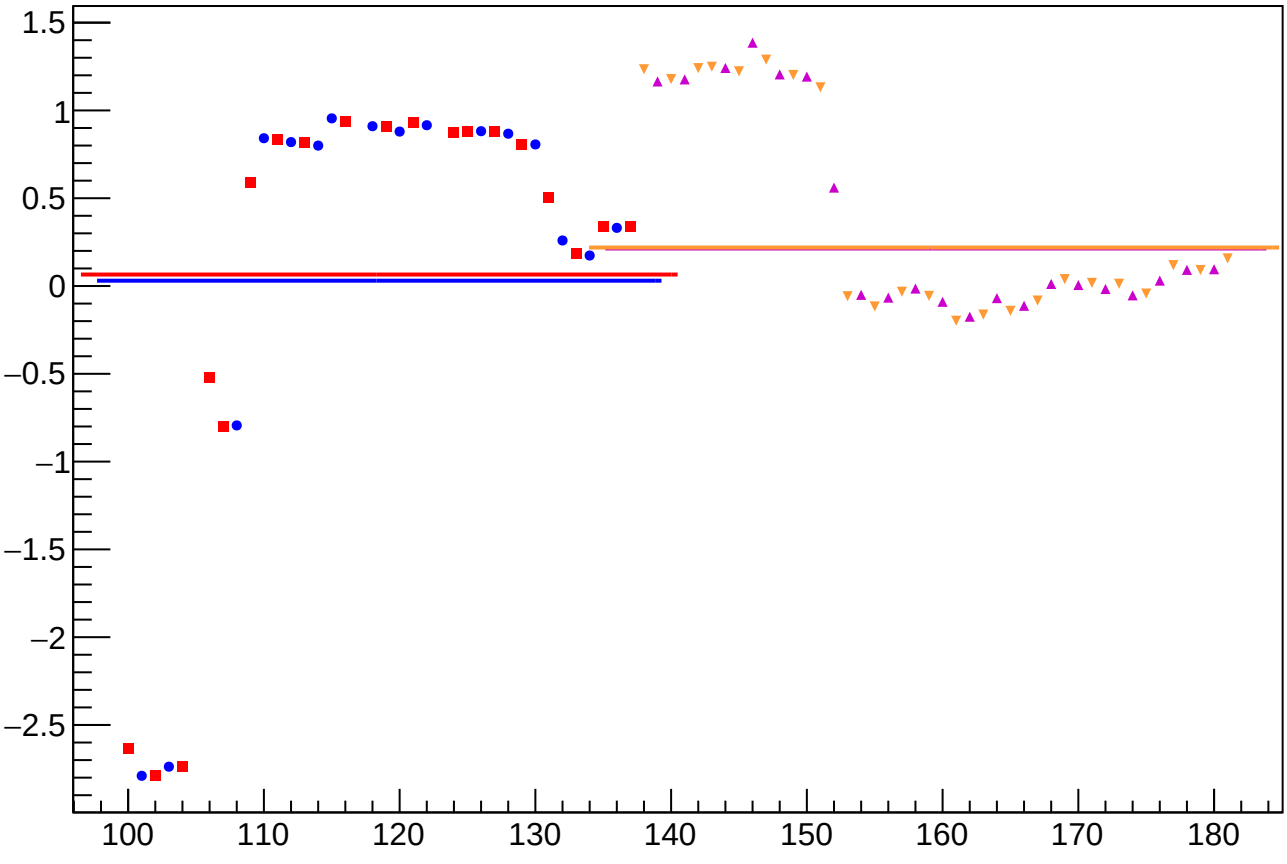
Right: 0.016+/-0.000 $\chi^2$/NDF: 1243118.0/34

In: 0.009+/-0.000 $\chi^2$/NDF:3555524.6/36

Out: 0.009+/-0.000 $\chi^2$/NDF:3447840.3/41

All: 0.009+/-0.000 $\chi^2$/NDF: 7003667.4/78

# yield_bpm0l04Y_mean vs Slug, Sign Corrected




Right In: 0.030+/-0.000 $\chi^2$/NDF: 851677270962.0/15

Left Out: 0.219+/-0.000 $\chi^2$/NDF:102277020553.5/22

Right Out: 0.065+/-0.000 $\chi^2$/NDF: 935478930138.7/18

Left In: 0.214+/-0.000 $\chi^2$/NDF:86796364207.4/20

Left: 0.217+/-0.000 $\chi^2$/NDF: 189079694162.9/43

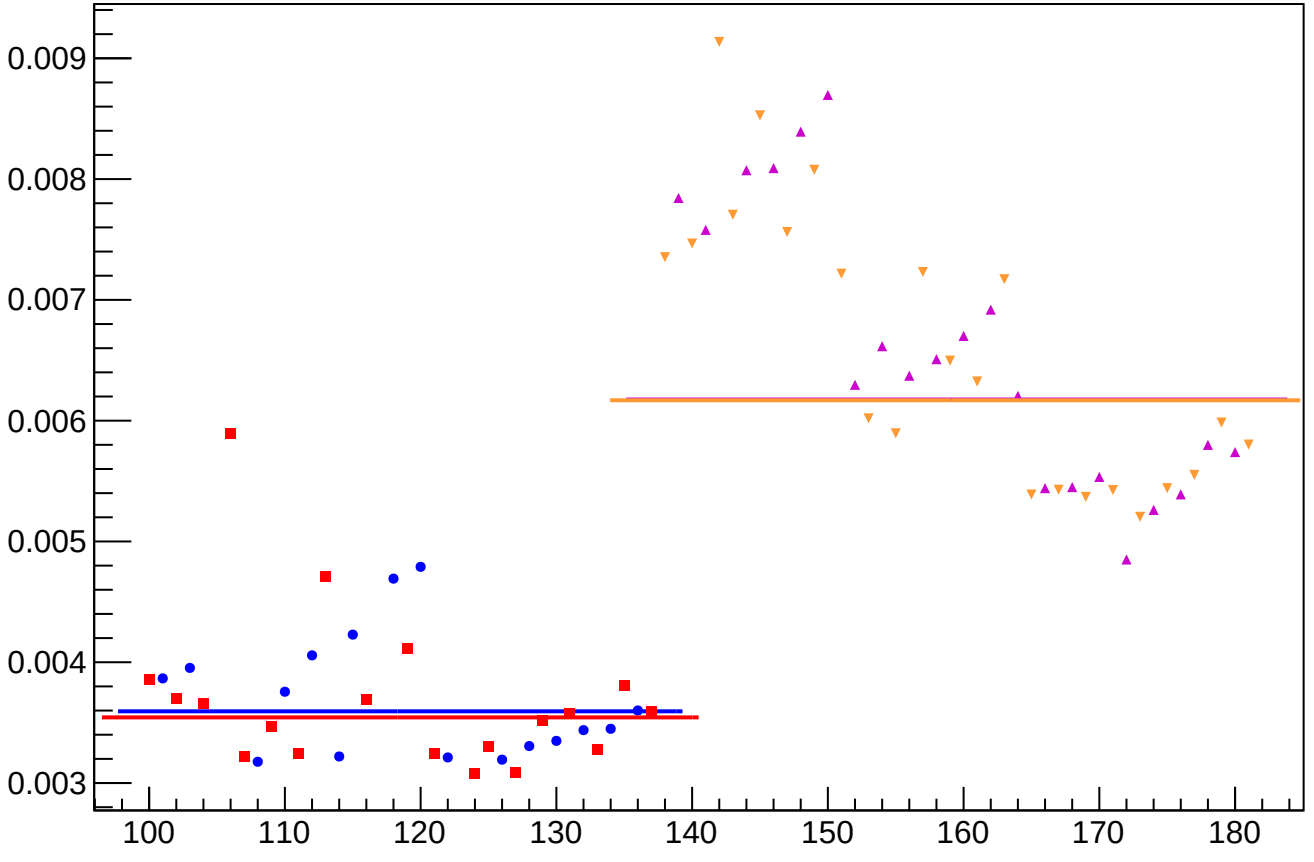
Right: 0.048+/-0.000 $\chi^2$/NDF: 1787488269945.7/34

In: 0.109+/-0.000 $\chi^2$/NDF:945986739474.3/36

Out: 0.131+/-0.000 $\chi^2$/NDF:1043409601497.9/41

All: 0.120+/-0.000 $\chi^2$/NDF: 1989626534718.

# yield_bpm0l04Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 180415.0/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:736166.9/22

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 224729.1/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:811362.6/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 1547545.0/43

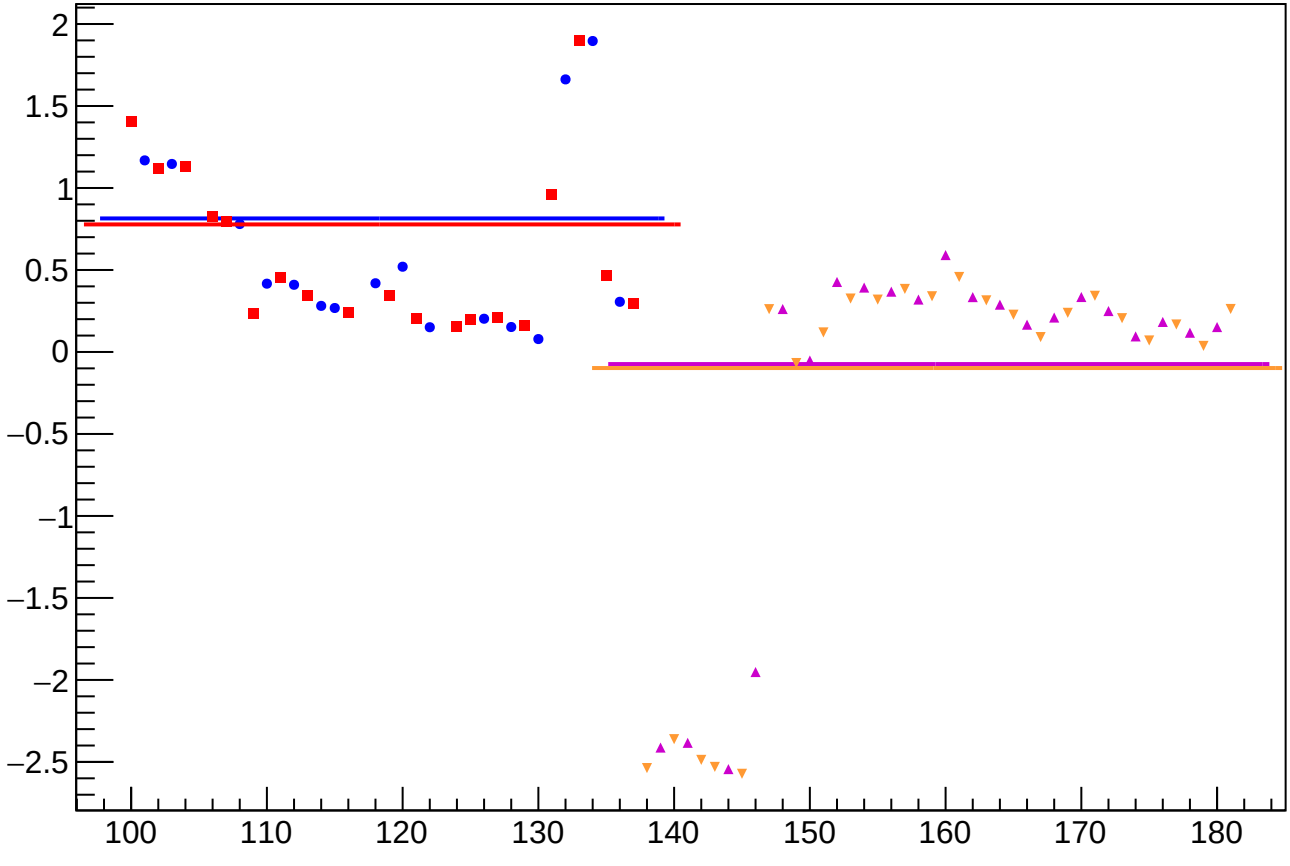
Right: 0.004+/-0.000 $\chi^2$/NDF: 406509.3/34

In: 0.005+/-0.000 $\chi^2$/NDF:3968793.0/36

Out: 0.005+/-0.000 $\chi^2$/NDF:4251888.4/41

All: 0.005+/-0.000 $\chi^2$/NDF: 8221983.5/78

# yield_bpm0l05X_mean vs Slug, Sign Corrected




Right In: 0.814+/-0.000 $\chi^2$/NDF: 35412149008.2/15

Left Out: -0.098+/-0.000 $\chi^2$/NDF:385199697725.5/22

Right Out: 0.778+/-0.000 $\chi^2$/NDF: 34603328062.2/18

Left In: -0.074+/-0.000 $\chi^2$/NDF:344242528005.8/20

Left: -0.086+/-0.000 $\chi^2$/NDF: 729580229628.1/43

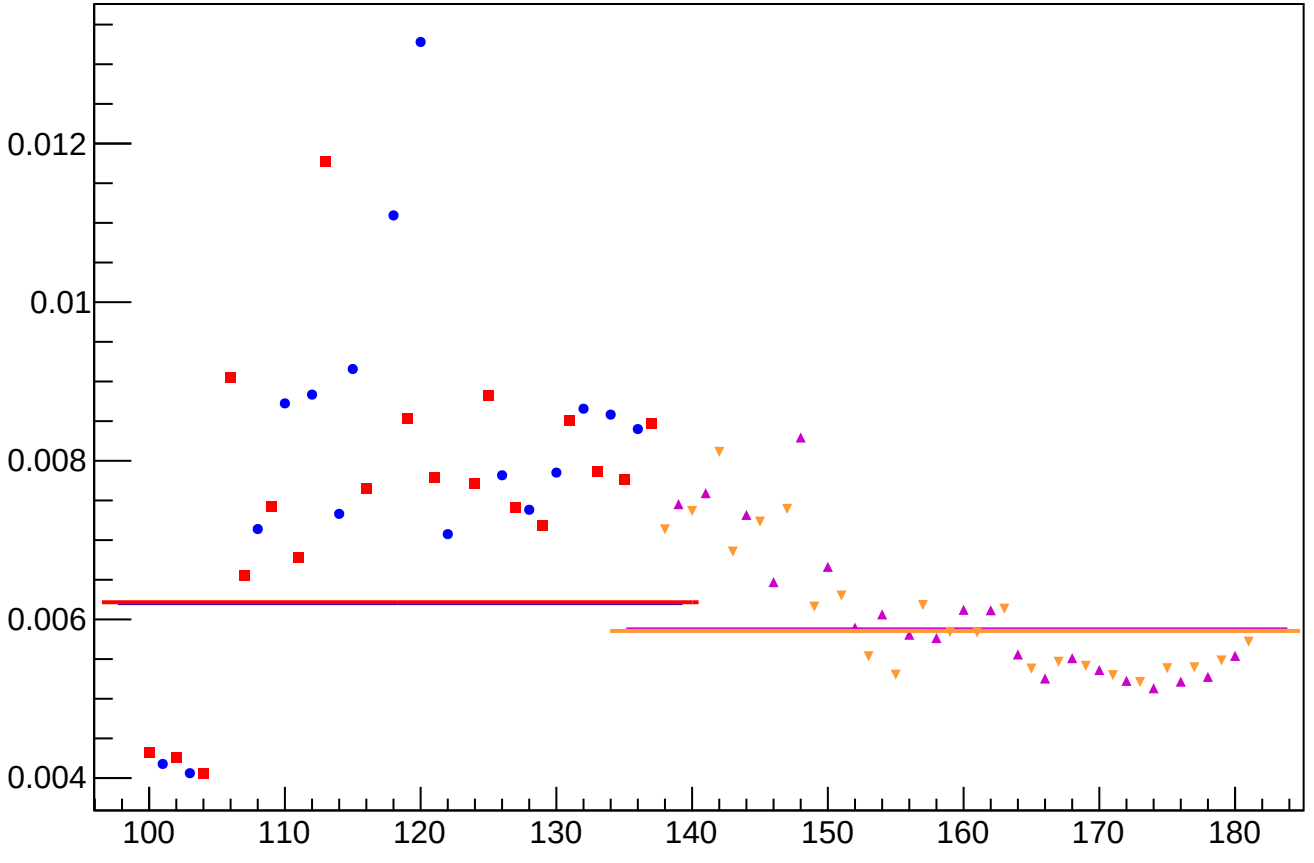
Right: 0.795+/-0.000 $\chi^2$/NDF: 70115223181.3/34

In: 0.140+/-0.000 $\chi^2$/NDF:466103754342.3/36

Out: 0.115+/-0.000 $\chi^2$/NDF:510074267616.1/41

All: 0.127+/-0.000 $\chi^2$/NDF: 976371007568.7

# yield_bpm0l05X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 1423886.1/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:438620.7/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 1161117.9/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:519997.3/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 958798.0/43

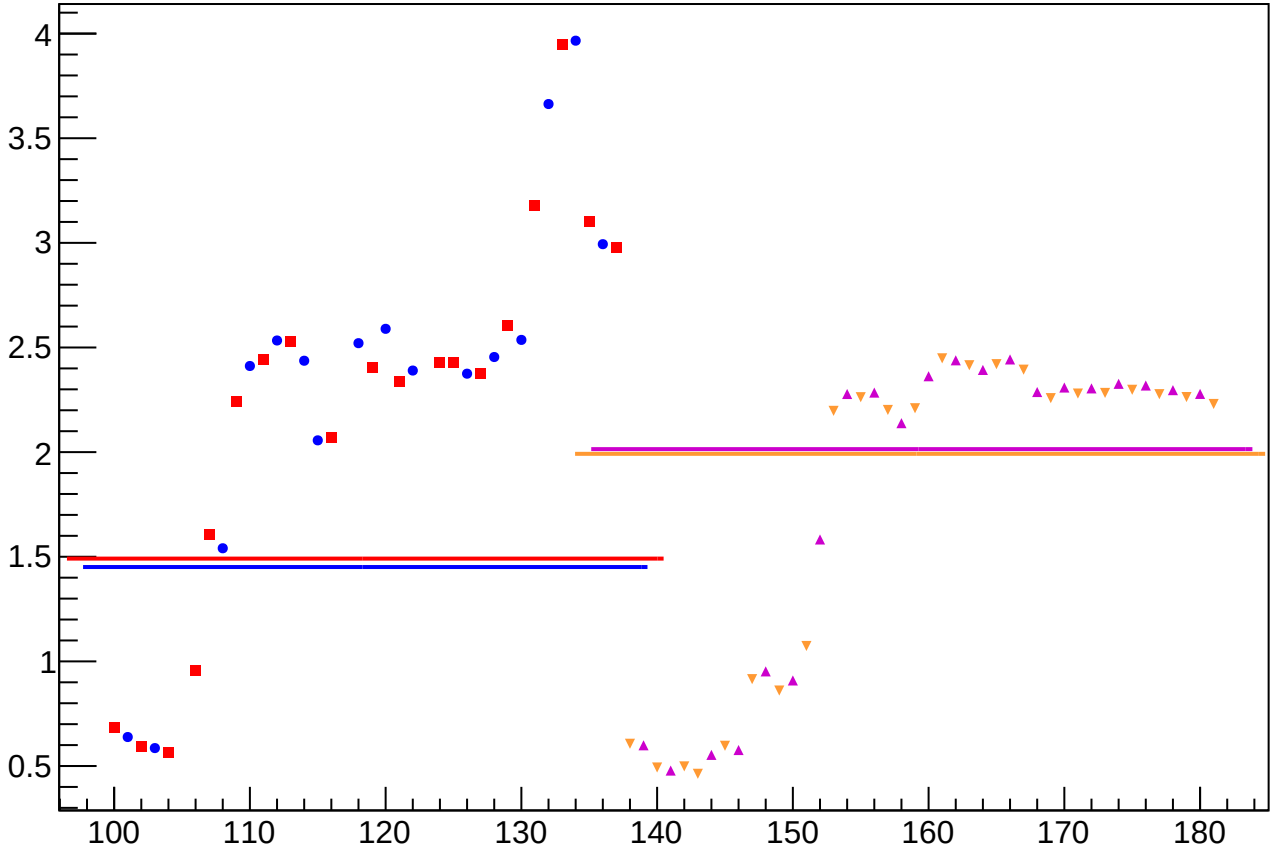
Right: 0.006+/-0.000 $\chi^2$/NDF: 2585020.0/34

In: 0.006+/-0.000 $\chi^2$/NDF:1967955.5/36

Out: 0.006+/-0.000 $\chi^2$/NDF:1630460.9/41

All: 0.006+/-0.000 $\chi^2$/NDF: 3598497.8/78

# yield_bpm0l05Y_mean vs Slug, Sign Corrected




Right In: 1.451+/-0.000 $\chi^2$/NDF: 169635774704.4/15

Left Out: 1.992+/-0.000 $\chi^2$/NDF:217068991060.3/22

Right Out: 1.491+/-0.000 $\chi^2$/NDF: 186952709821.0/18

Left In: 2.014+/-0.000 $\chi^2$/NDF:192800367073.9/20

Left: 2.003+/-0.000 $\chi^2$/NDF: 410000394557.9/43

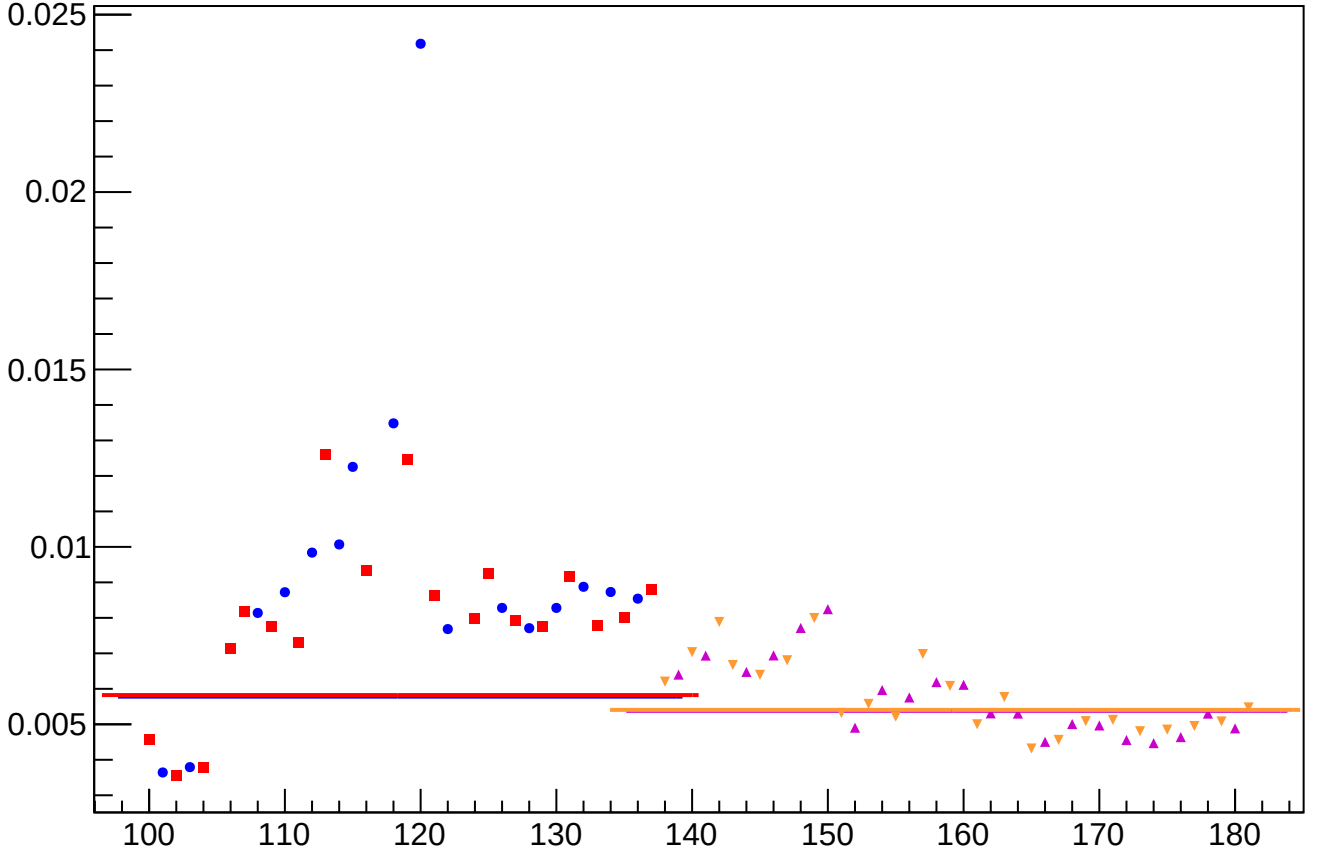
Right: 1.472+/-0.000 $\chi^2$/NDF: 356714546192.4/34

In: 1.885+/-0.000 $\chi^2$/NDF:399107610492.6/36

Out: 1.875+/-0.000 $\chi^2$/NDF:435062545018.1/41

All: 1.880+/-0.000 $\chi^2$/NDF: 834203322807.3

# yield_bpm0l05Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 2213885.3/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:709721.0/22

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 1955751.4/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:801765.5/20

Left: 0.005+/-0.000 $\chi^2$/NDF: 1511858.8/43

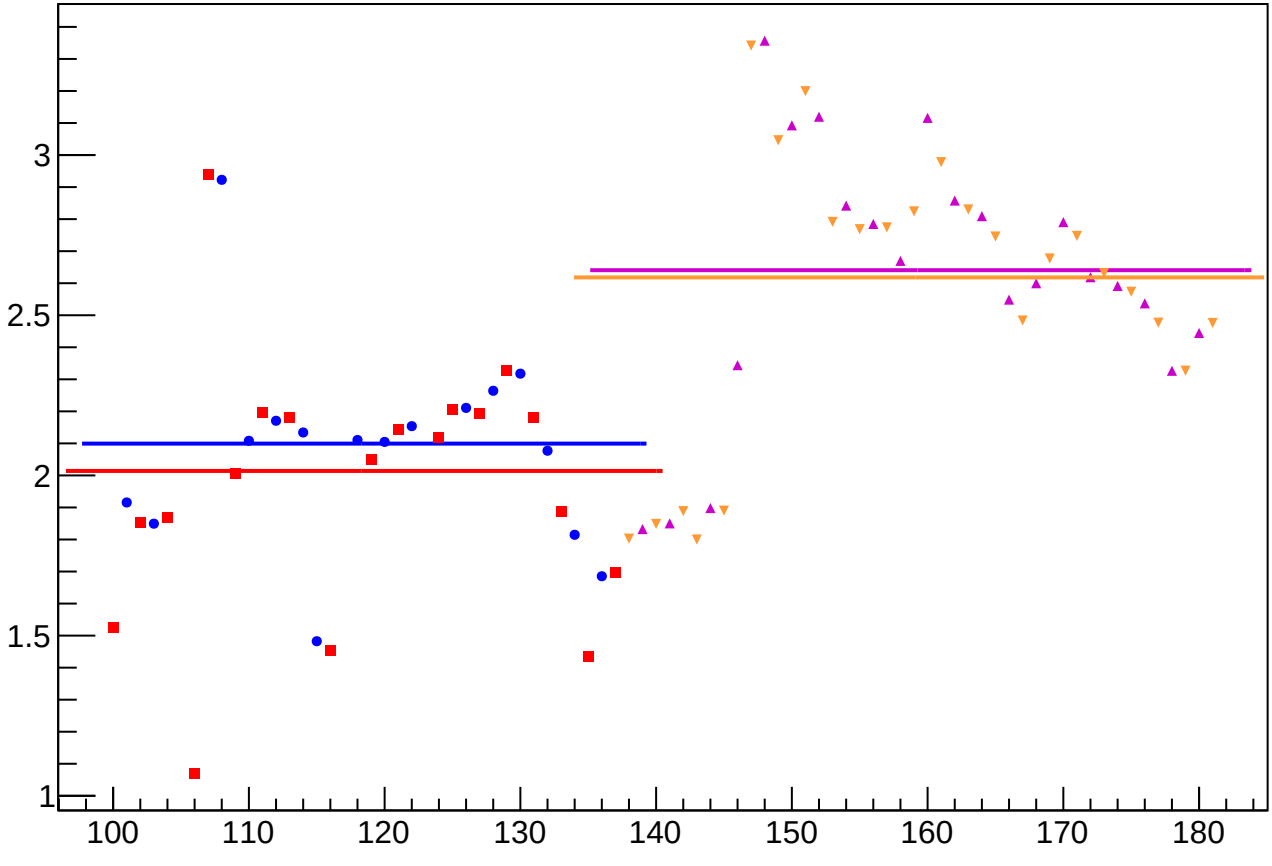
Right: 0.006+/-0.000 $\chi^2$/NDF: 4169928.0/34

In: 0.005+/-0.000 $\chi^2$/NDF:3052675.2/36

Out: 0.006+/-0.000 $\chi^2$/NDF:2708501.8/41

All: 0.005+/-0.000 $\chi^2$/NDF: 5761870.6/78

# yield_bpm0l06X_mean vs Slug, Sign Corrected




Right In: 2.099+/-0.000 $\chi^2$/NDF: 13928556396.8/15

Left Out: 2.618+/-0.000 $\chi^2$/NDF:46247882963.0/22

Right Out: 2.014+/-0.000 $\chi^2$/NDF: 19615856596.5/18

Left In: 2.641+/-0.000 $\chi^2$/NDF:40201519884.5/20

Left: 2.629+/-0.000 $\chi^2$/NDF: 86525157966.8/43

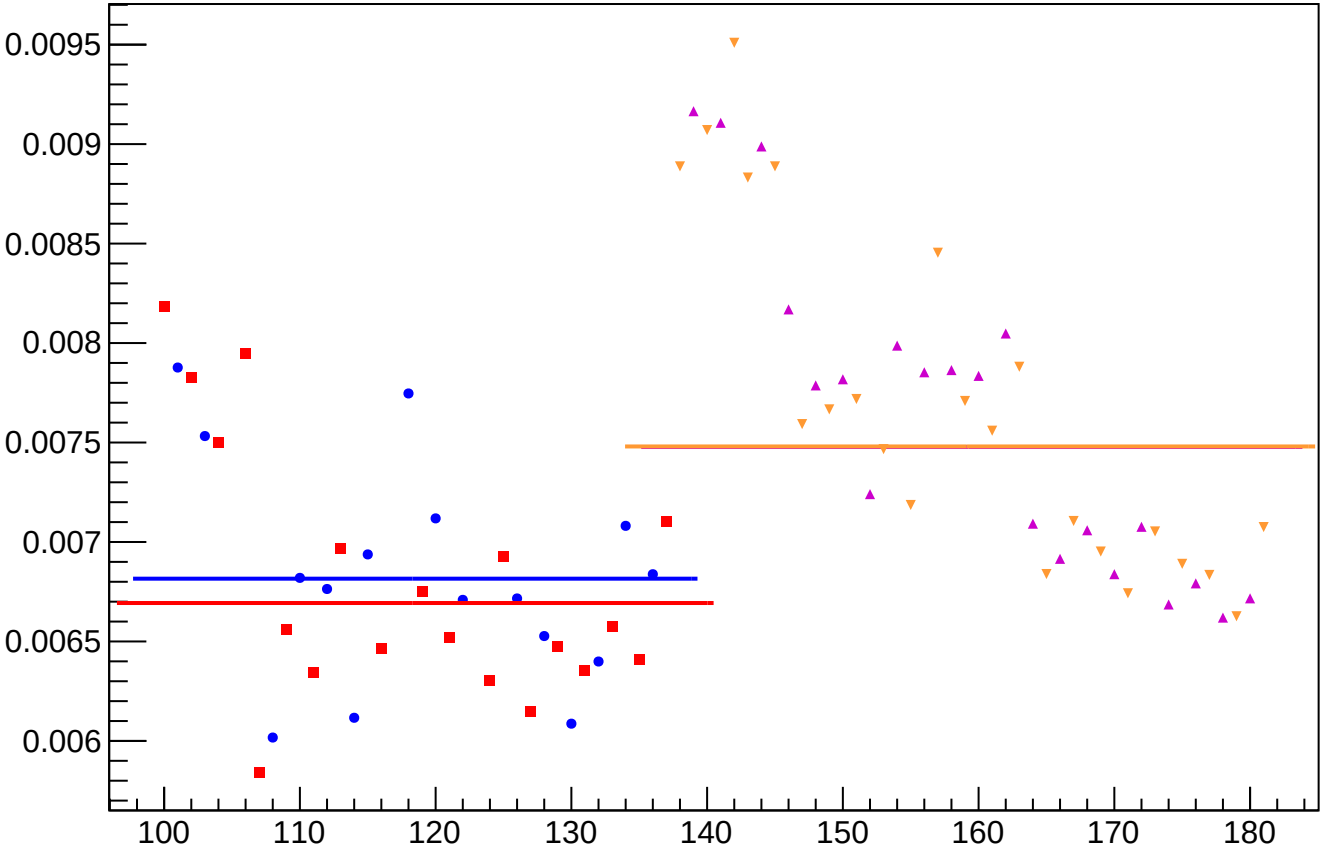
Right: 2.055+/-0.000 $\chi^2$/NDF: 34101176841.4/34

In: 2.459+/-0.000 $\chi^2$/NDF:82756192693.0/36

Out: 2.412+/-0.000 $\chi^2$/NDF:104162383389.5/41

All: 2.435+/-0.000 $\chi^2$/NDF: 187427423246.3

# yield_bpm0l06X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 86781.0/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:328828.8/22

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 87876.9/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:320930.9/20

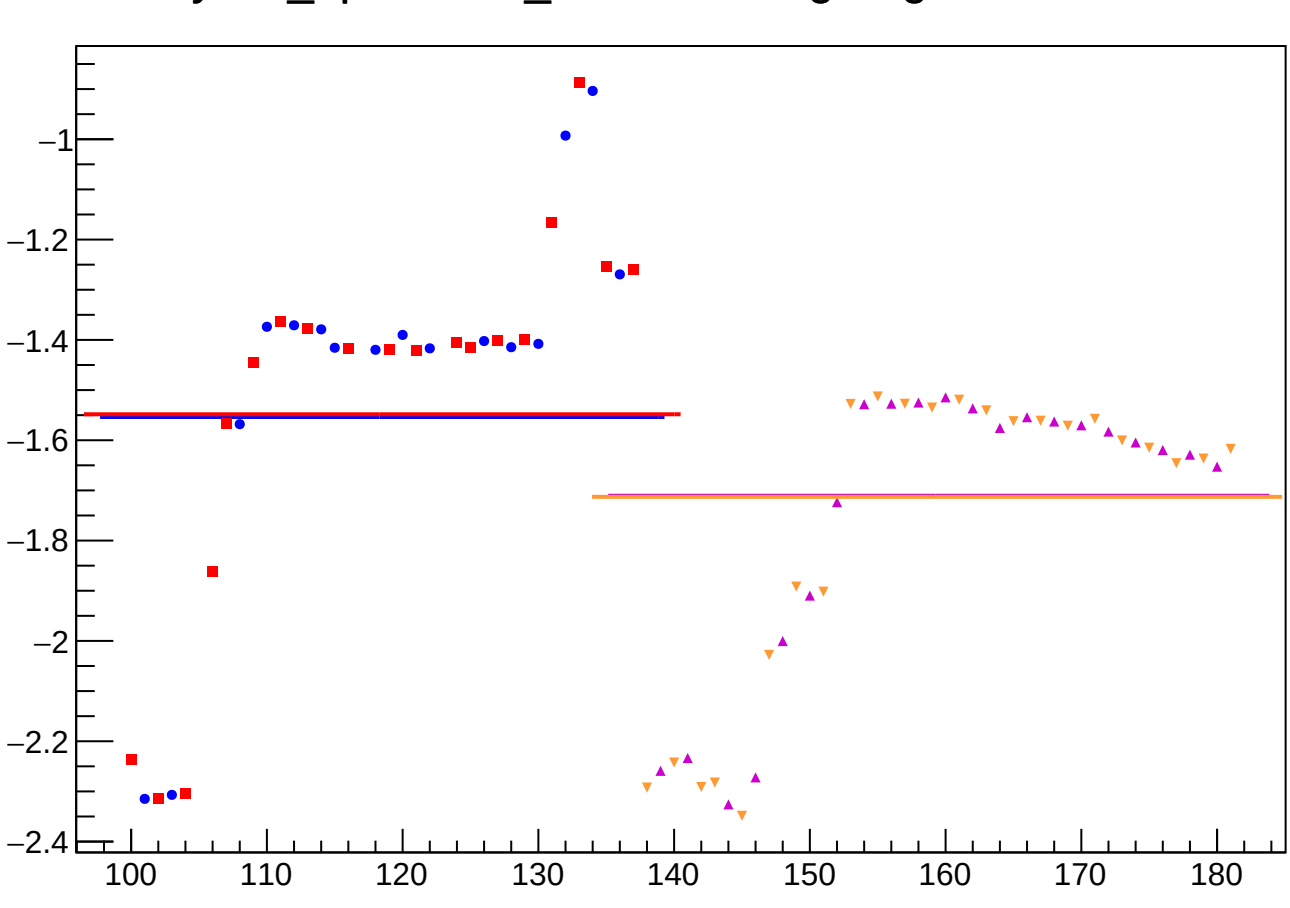
Left: 0.007+/-0.000 $\chi^2$/NDF: 649762.1/43

Right: 0.007+/-0.000 $\chi^2$/NDF: 176946.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:493294.7/36

Out: 0.007+/-0.000 $\chi^2$/NDF:546677.9/41

All: 0.007+/-0.000 $\chi^2$/NDF: 1040856.5/78




Right In: -1.554+/-0.000 $\chi^2$/NDF: 175176621986.0/15

Left Out: -1.713+/-0.000 $\chi^2$/NDF:150496378341.9/22

Right Out: -1.548+/-0.000 $\chi^2$/NDF: 174743666302.8/18

Left In: -1.711+/-0.000 $\chi^2$/NDF:135548887936.1/20

Left: -1.712+/-0.000 $\chi^2$/NDF: 286049975888.7/43

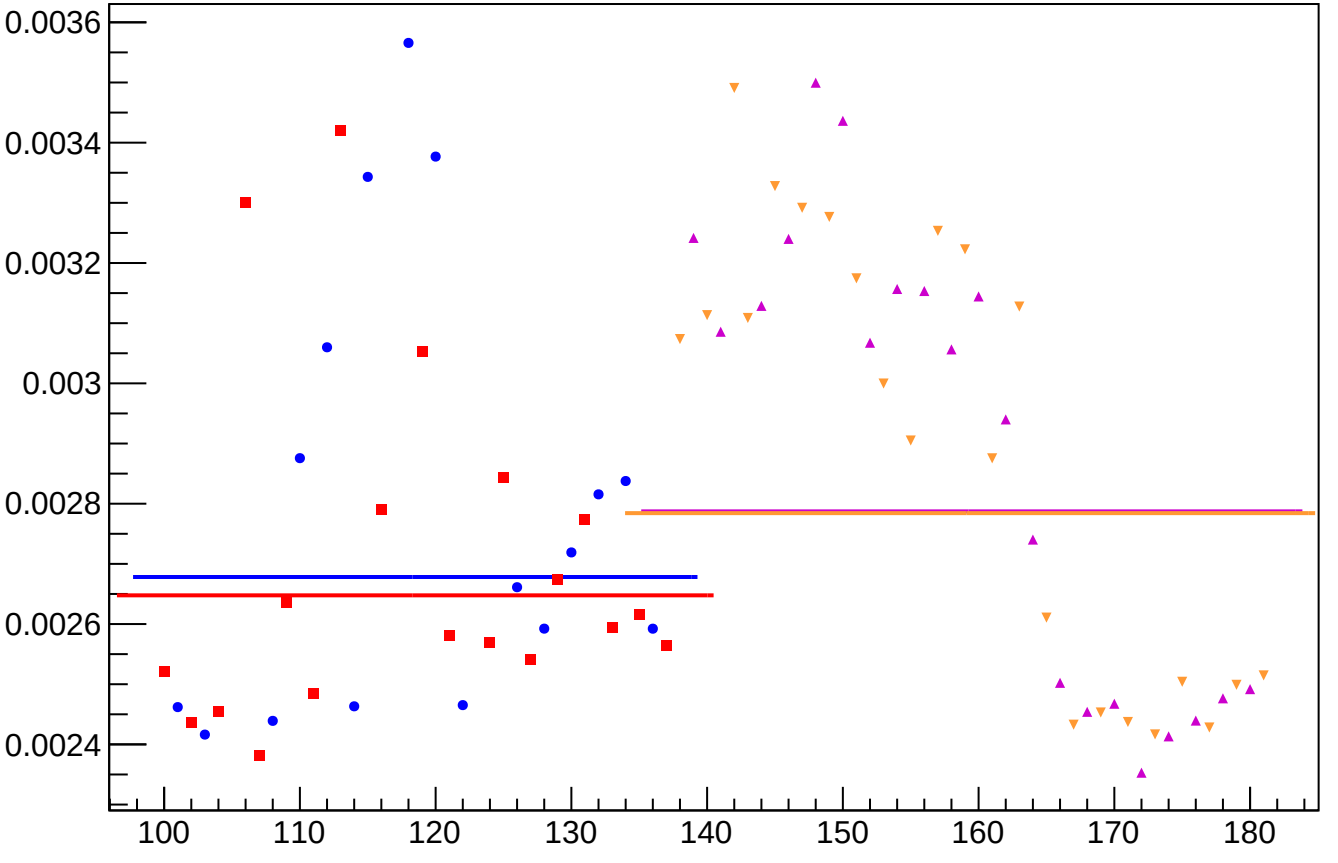
Right: -1.551+/-0.000 $\chi^2$/NDF: 349934542439.1/34

In: -1.662+/-0.000 $\chi^2$/NDF:326610139973.2/36

Out: -1.661+/-0.000 $\chi^2$/NDF:343837838860.7/41

All: -1.661+/-0.000 $\chi^2$/NDF: 670448498288.8

# yield_bpm0l06Y_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 157881.5/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:529858.6/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 116150.5/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:555816.9/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 1085693.8/43

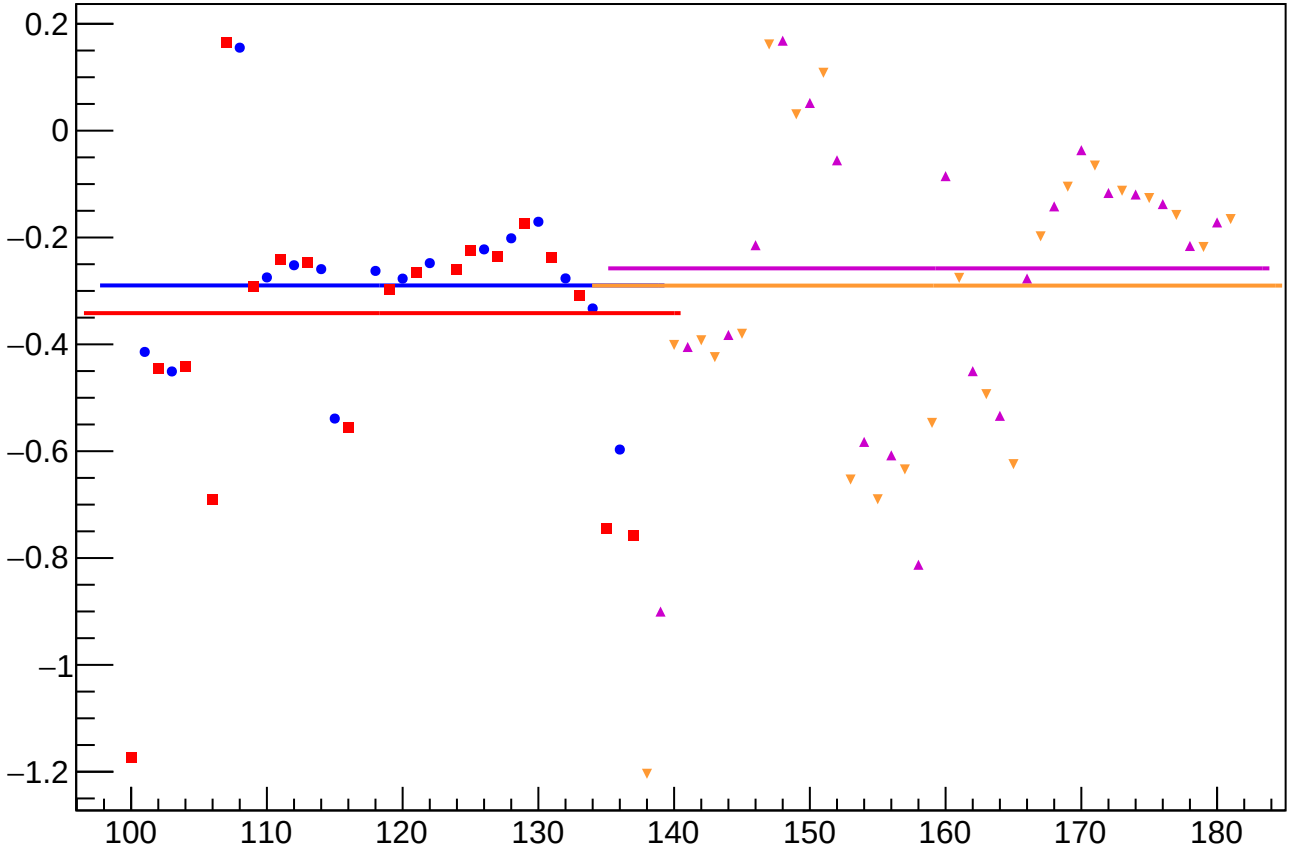
Right: 0.003+/-0.000 $\chi^2$/NDF: 274930.8/34

In: 0.003+/-0.000 $\chi^2$/NDF:729025.8/36

Out: 0.003+/-0.000 $\chi^2$/NDF:671645.1/41

All: 0.003+/-0.000 $\chi^2$/NDF: 1401101.7/78

# yield_bpm0l07X_mean vs Slug, Sign Corrected




Right In: -0.290+/-0.000 $\chi^2$/NDF: 1645174238.4/15

Left Out: -0.290+/-0.000 $\chi^2$/NDF:9224931677.0/22

Right Out: -0.342+/-0.000 $\chi^2$/NDF: 2609243421.7/18

Left In: -0.258+/-0.000 $\chi^2$/NDF:7099282916.9/20

Left: -0.274+/-0.000 $\chi^2$/NDF: 16380805611.4/43

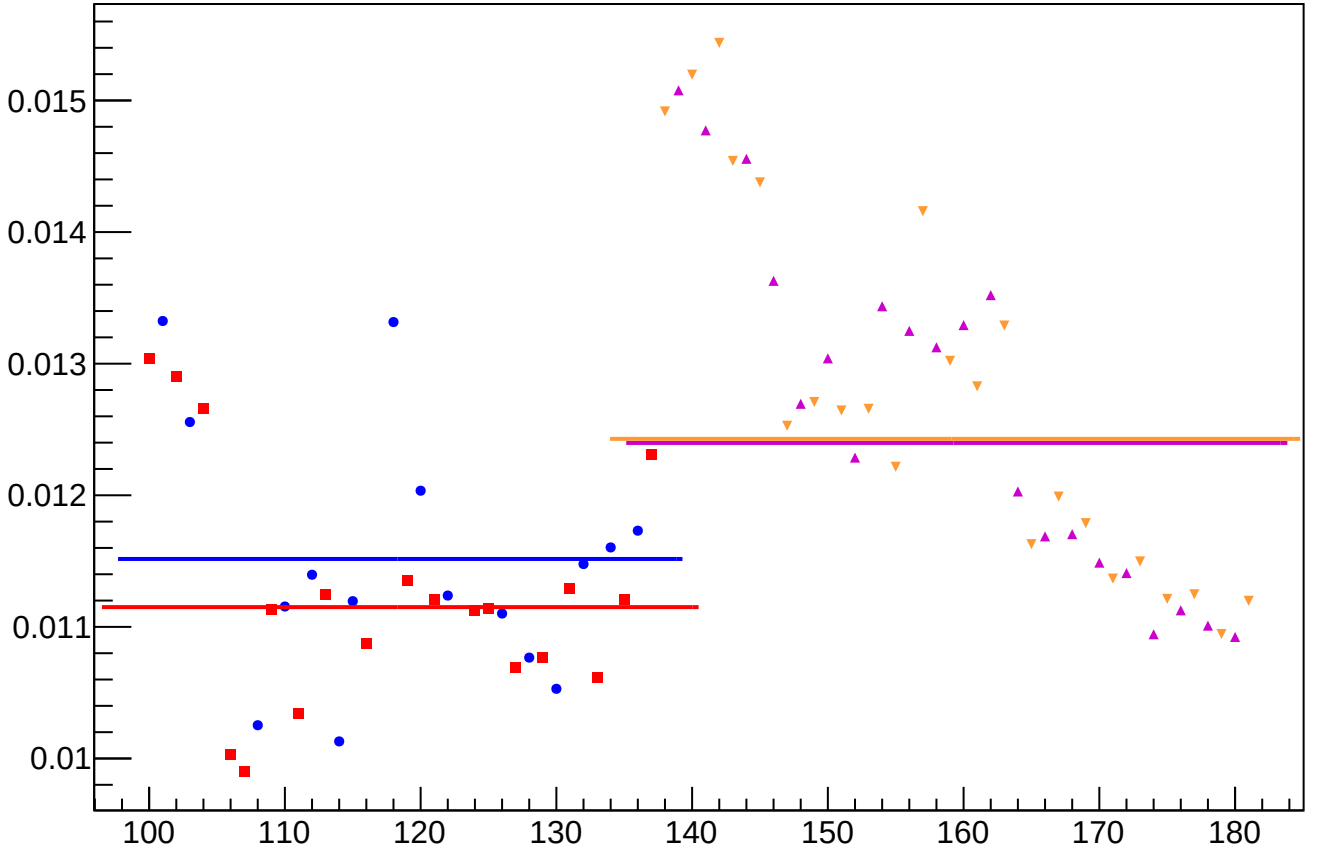
Right: -0.317+/-0.000 $\chi^2$/NDF: 4328413510.6/34

In: -0.268+/-0.000 $\chi^2$/NDF:8780143648.4/36

Out: -0.308+/-0.000 $\chi^2$/NDF:11936103469.7/41

All: -0.289+/-0.000 $\chi^2$/NDF: 20843452021.5/

# yield_bpm0l07X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 84278.9/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:337942.3/22

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 70560.1/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:324999.9/20

Left: 0.012+/-0.000 $\chi^2$/NDF: 663047.3/43

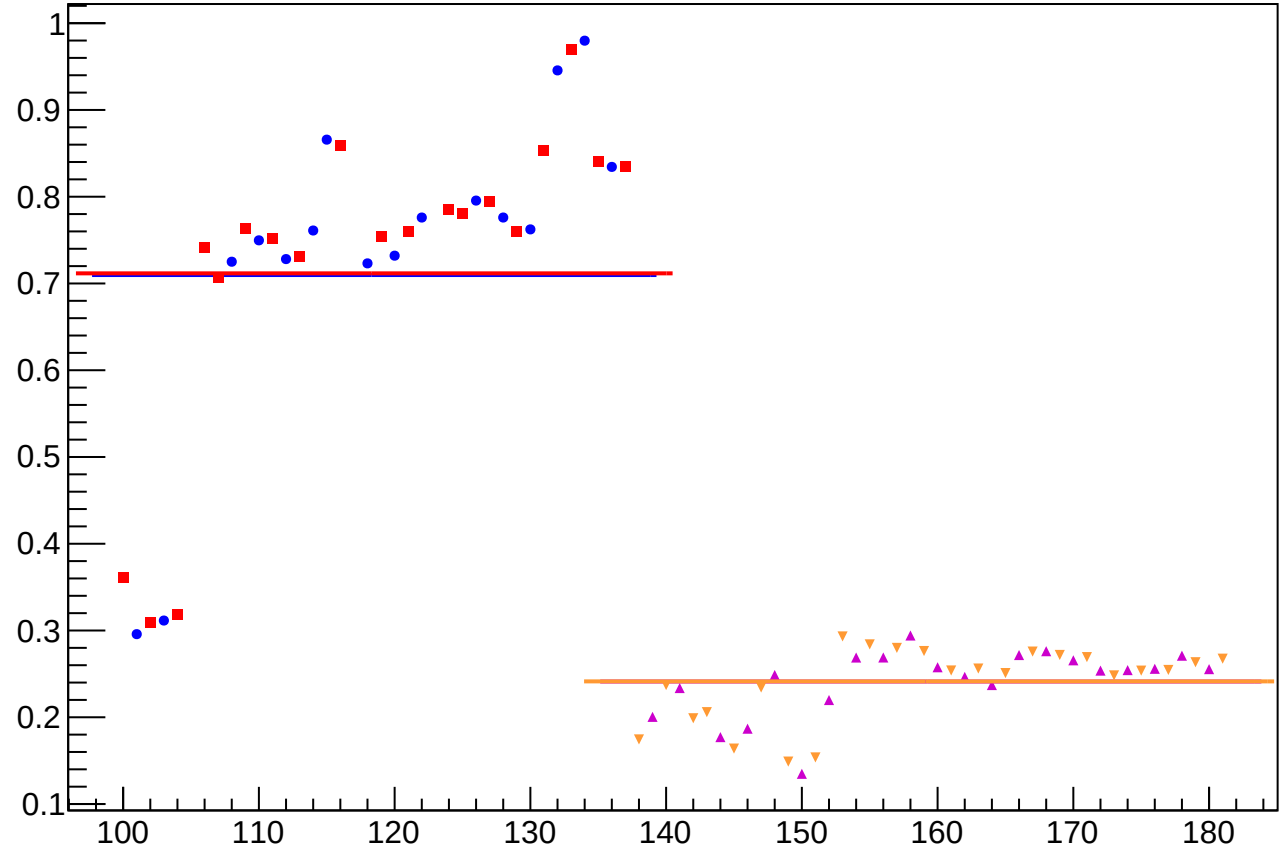
Right: 0.011+/-0.000 $\chi^2$/NDF: 162212.6/34

In: 0.012+/-0.000 $\chi^2$/NDF:463612.9/36

Out: 0.012+/-0.000 $\chi^2$/NDF:533883.1/41

All: 0.012+/-0.000 $\chi^2$/NDF: 999734.8/78

# yield_bpm0l07Y_mean vs Slug, Sign Corrected




Right In: 0.710+/-0.000 $\chi^2$/NDF: 48924347494.6/15

Left Out: 0.241+/-0.000 $\chi^2$/NDF:7153023110.6/22

Right Out: 0.712+/-0.000 $\chi^2$/NDF: 44174681920.8/18

Left In: 0.241+/-0.000 $\chi^2$/NDF:5668698278.3/20

Left: 0.241+/-0.000 $\chi^2$/NDF: 12821776779.8/43

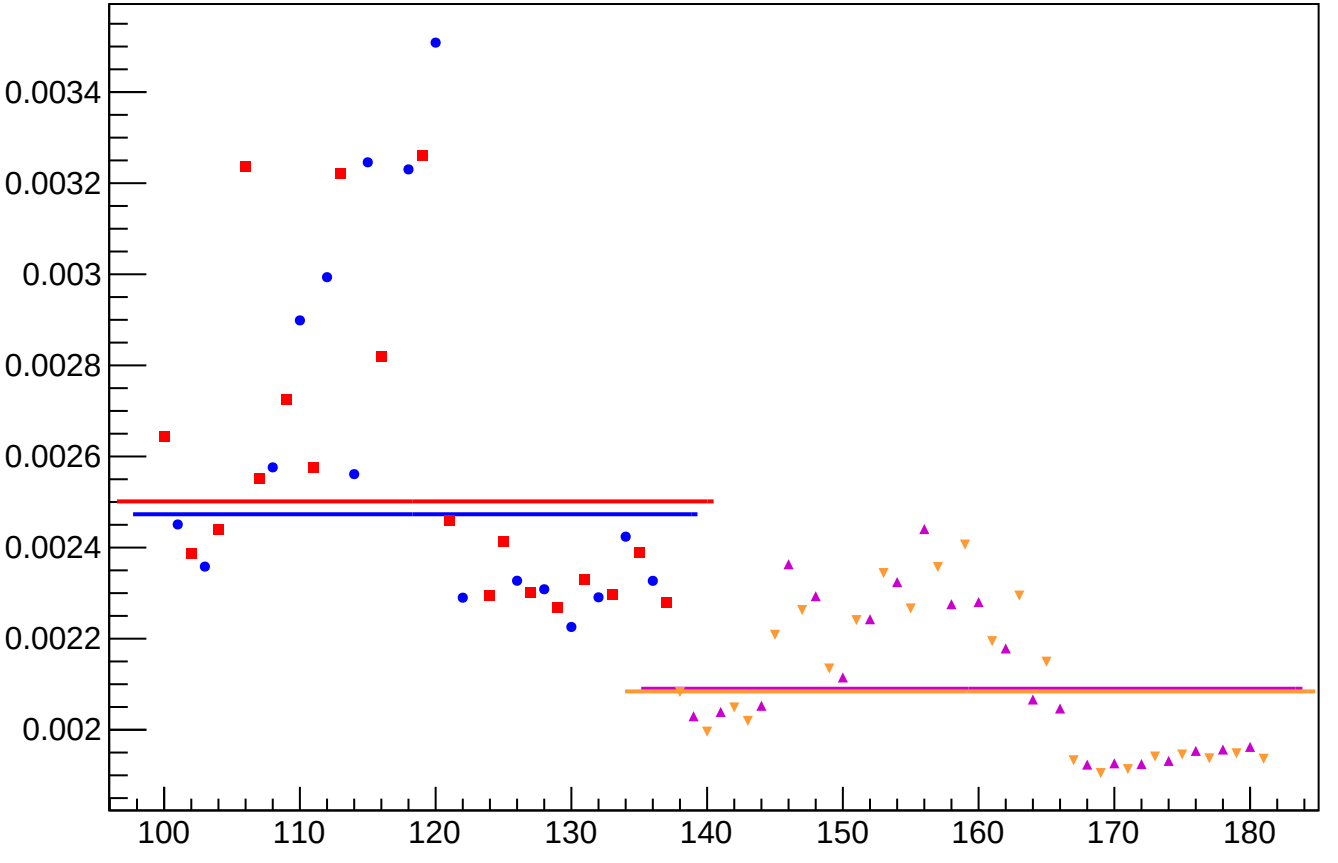
Right: 0.711+/-0.000 $\chi^2$/NDF: 93101138571.1/34

In: 0.345+/-0.000 $\chi^2$/NDF:244844739239.3/36

Out: 0.342+/-0.000 $\chi^2$/NDF:247058691248.0/41

All: 0.343+/-0.000 $\chi^2$/NDF: 491944087928.9

# yield_bpm0l07Y_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 208046.5/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:212492.7/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 177427.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:195050.4/20

Left: 0.002+/-0.000 $\chi^2$/NDF: 407682.3/43

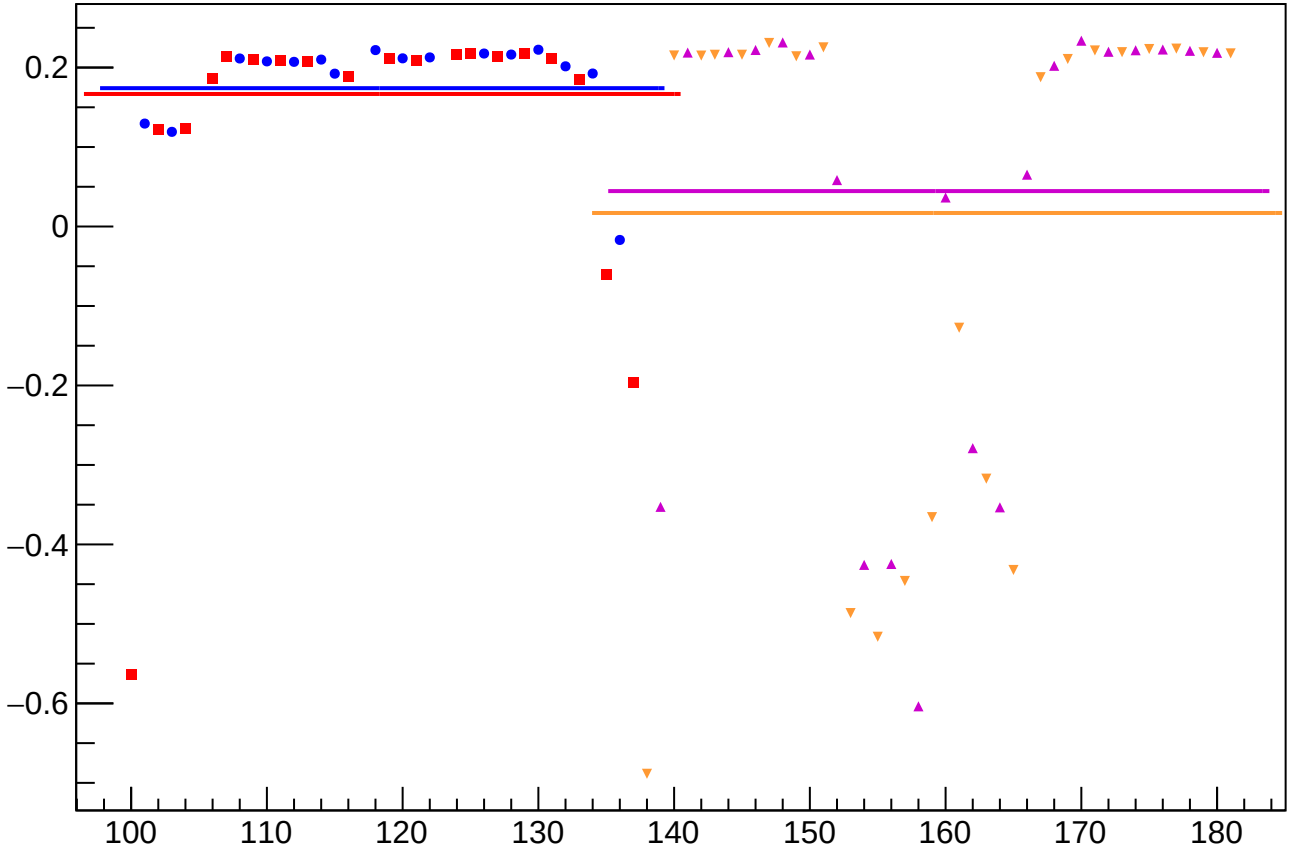
Right: 0.002+/-0.000 $\chi^2$/NDF: 386364.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:657437.4/36

Out: 0.002+/-0.000 $\chi^2$/NDF:697899.4/41

All: 0.002+/-0.000 $\chi^2$/NDF: 1355364.4/78

# yield_bpm0l08X_mean vs Slug, Sign Corrected




Right In: 0.174+/-0.000 $\chi^2$/NDF: 401946344.0/15

Left Out: 0.017+/-0.000 $\chi^2$/NDF:12697847367.7/22

Right Out: 0.167+/-0.000 $\chi^2$/NDF: 894131198.6/18

Left In: 0.045+/-0.000 $\chi^2$/NDF:9475682941.3/20

Left: 0.030+/-0.000 $\chi^2$/NDF: 22223906456.1/43

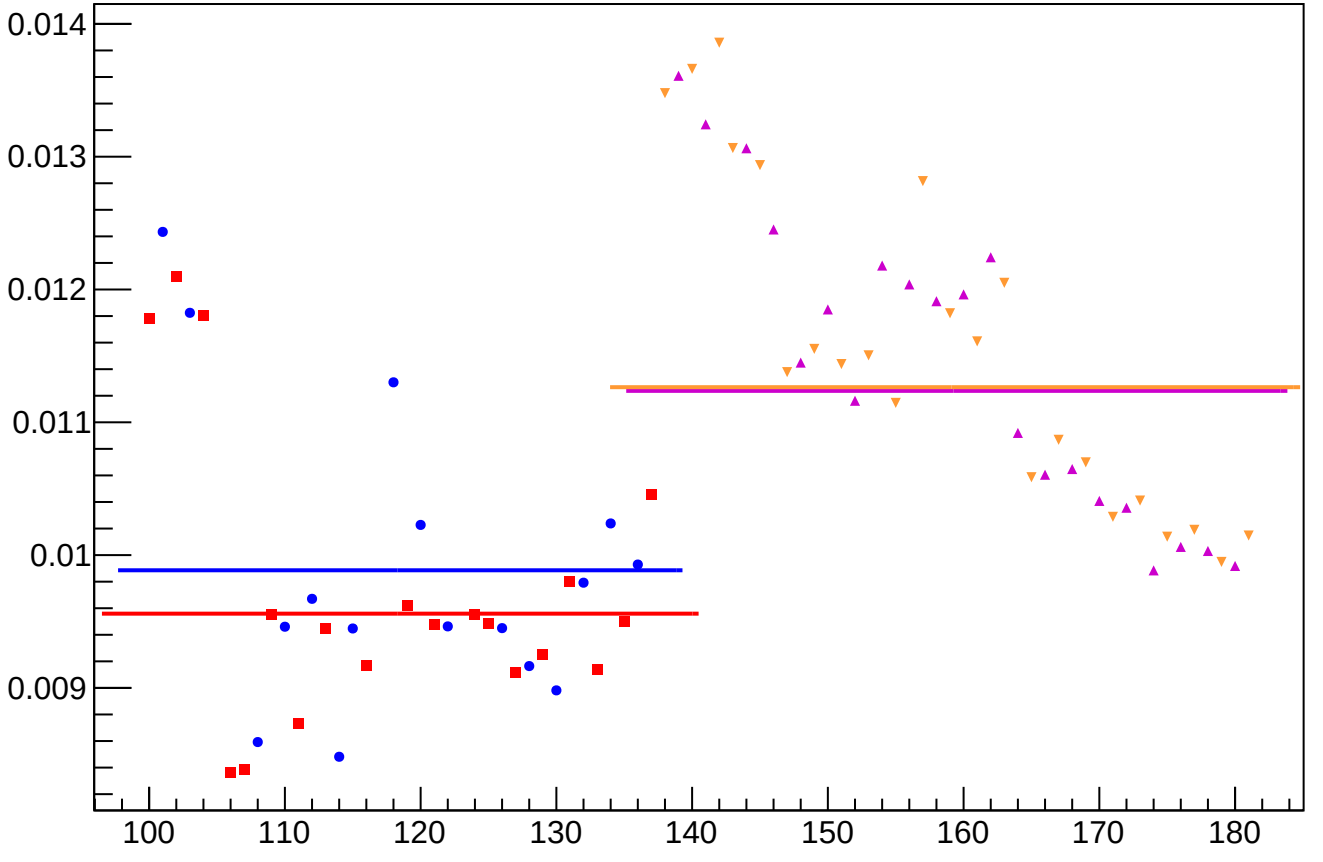
Right: 0.170+/-0.000 $\chi^2$/NDF: 1298066263.7/34

In: 0.090+/-0.000 $\chi^2$/NDF:10640650885.1/36

Out: 0.072+/-0.000 $\chi^2$/NDF:14711873248.4/41

All: 0.081+/-0.000 $\chi^2$/NDF: 25387156098.7/7

# yield_bpm0l08X_rms vs Slug, Sign Corrected




Right In: 0.010+/-0.000 $\chi^2$/NDF: 148562.0/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:325033.8/22

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 136197.0/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:314186.5/20

Left: 0.011+/-0.000 $\chi^2$/NDF: 639321.5/43

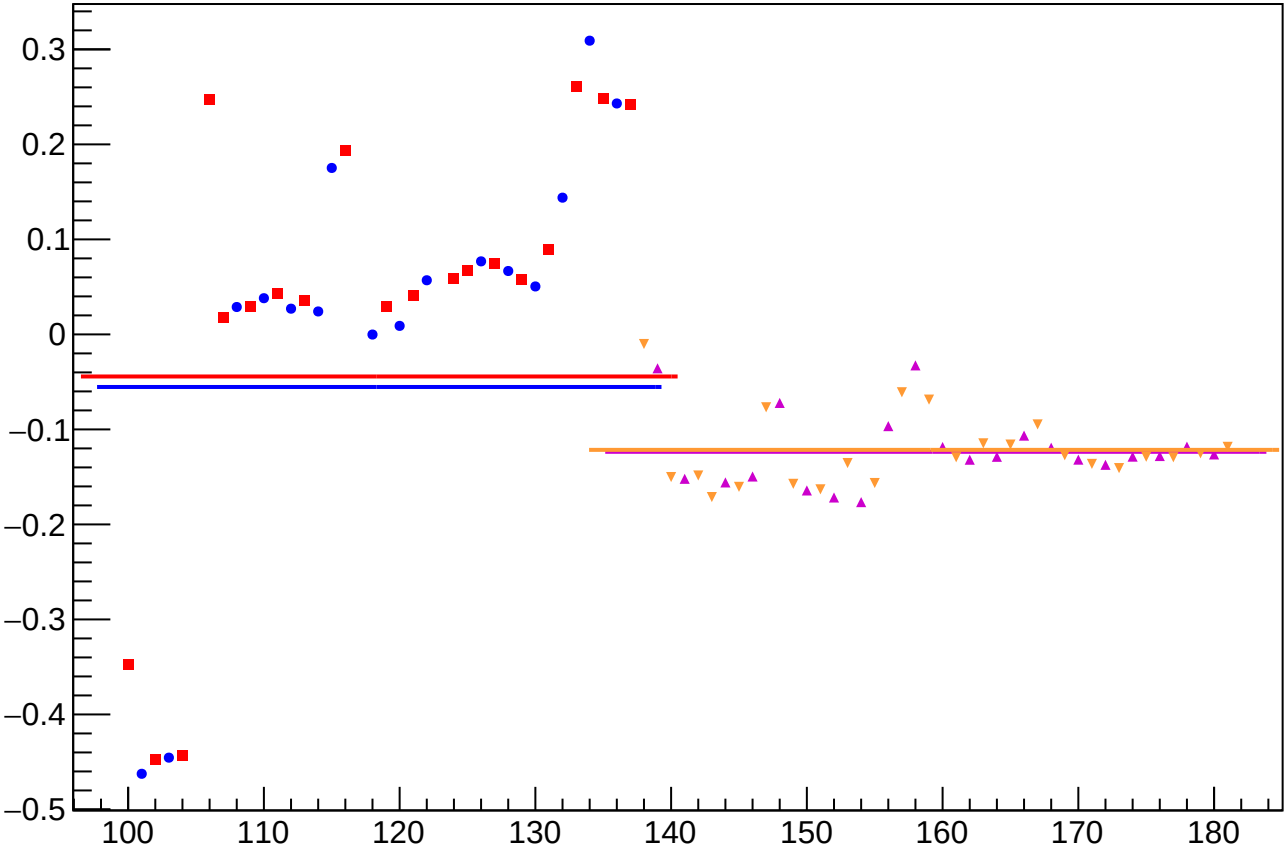
Right: 0.010+/-0.000 $\chi^2$/NDF: 292678.0/34

In: 0.011+/-0.000 $\chi^2$/NDF:628858.9/36

Out: 0.011+/-0.000 $\chi^2$/NDF:751794.6/41

All: 0.011+/-0.000 $\chi^2$/NDF: 1383704.2/78

# yield_bpm0l08Y_mean vs Slug, Sign Corrected




Right In: -0.055+/-0.000 $\chi^2$/NDF: 24081939190.6/15

Left Out: -0.122+/-0.000 $\chi^2$/NDF:2919422107.2/22

Right Out: -0.044+/-0.000 $\chi^2$/NDF: 22136167141.7/18

Left In: -0.124+/-0.000 $\chi^2$/NDF:2808425655.9/20

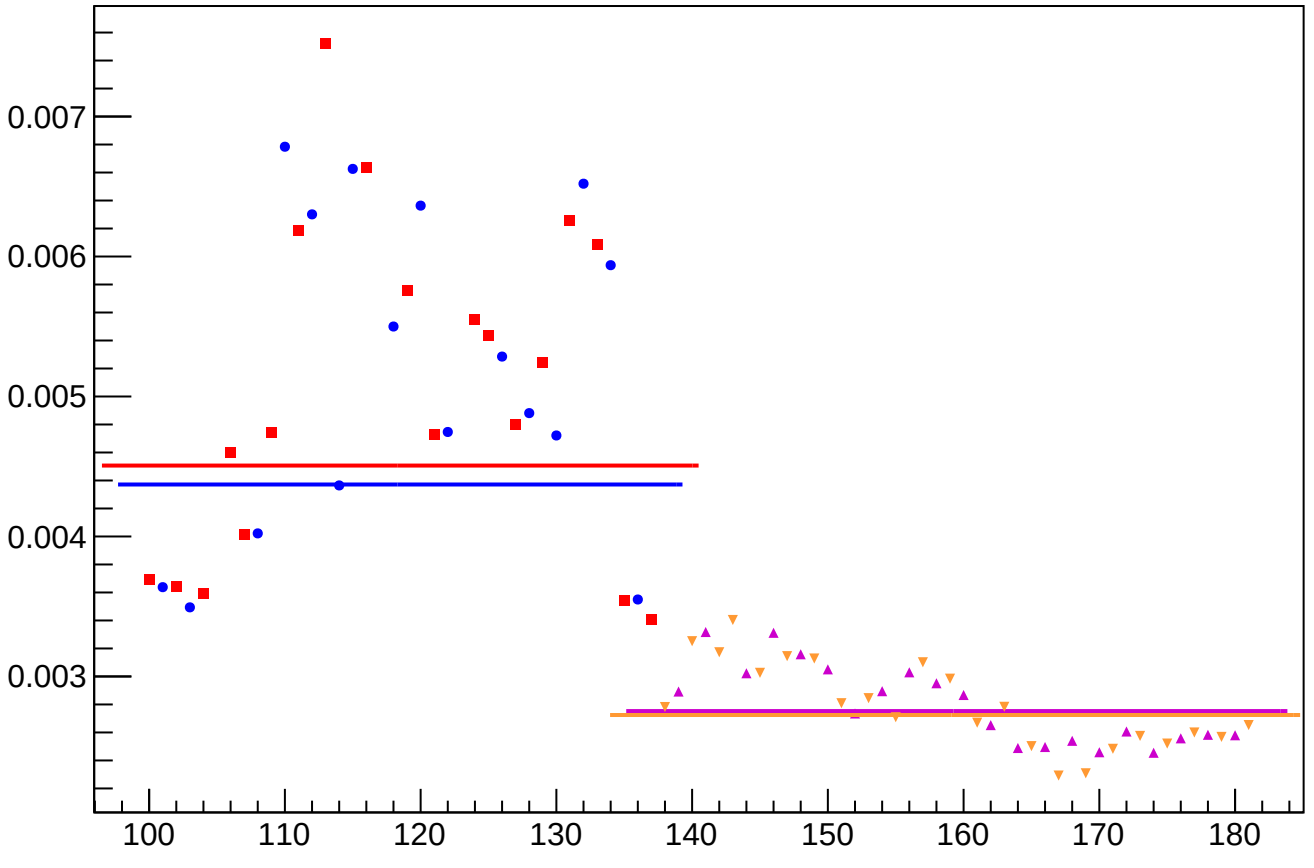
Left: -0.123+/-0.000 $\chi^2$/NDF: 5732537306.9/43

Right: -0.050+/-0.000 $\chi^2$/NDF: 46237436160.9/34

In: -0.115+/-0.000 $\chi^2$/NDF:28185573476.9/36

Out: -0.112+/-0.000 $\chi^2$/NDF:26710605032.0/41

All: -0.114+/-0.000 $\chi^2$/NDF: 54903565320.2/




Right In: 0.004+/-0.000 $\chi^2$/NDF: 660432.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:384884.6/22

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 704549.6/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:292045.8/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 678707.9/43

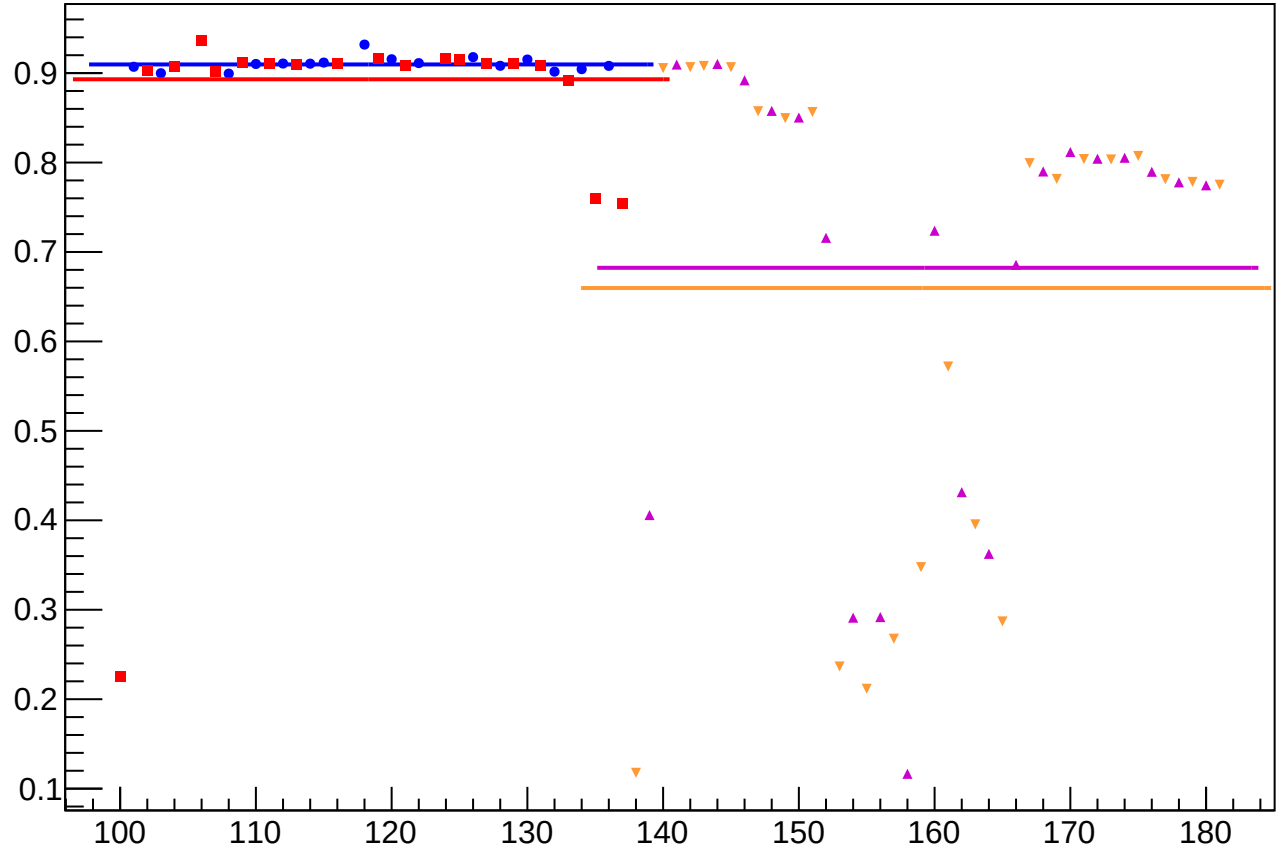
Right: 0.004+/-0.000 $\chi^2$/NDF: 1370782.0/34

In: 0.003+/-0.000 $\chi^2$/NDF:2409970.4/36

Out: 0.003+/-0.000 $\chi^2$/NDF:2851181.3/41

All: 0.003+/-0.000 $\chi^2$/NDF: 5262830.4/78

# yield_bpm0l09X_mean vs Slug, Sign Corrected




Right In: 0.910+/-0.000 $\chi^2$/NDF: 3133349.6/15

Left Out: 0.660+/-0.000 $\chi^2$/NDF:9117677630.9/22

Right Out: 0.893+/-0.000 $\chi^2$/NDF: 327979021.4/18

Left In: 0.682+/-0.000 $\chi^2$/NDF:6933103022.5/20

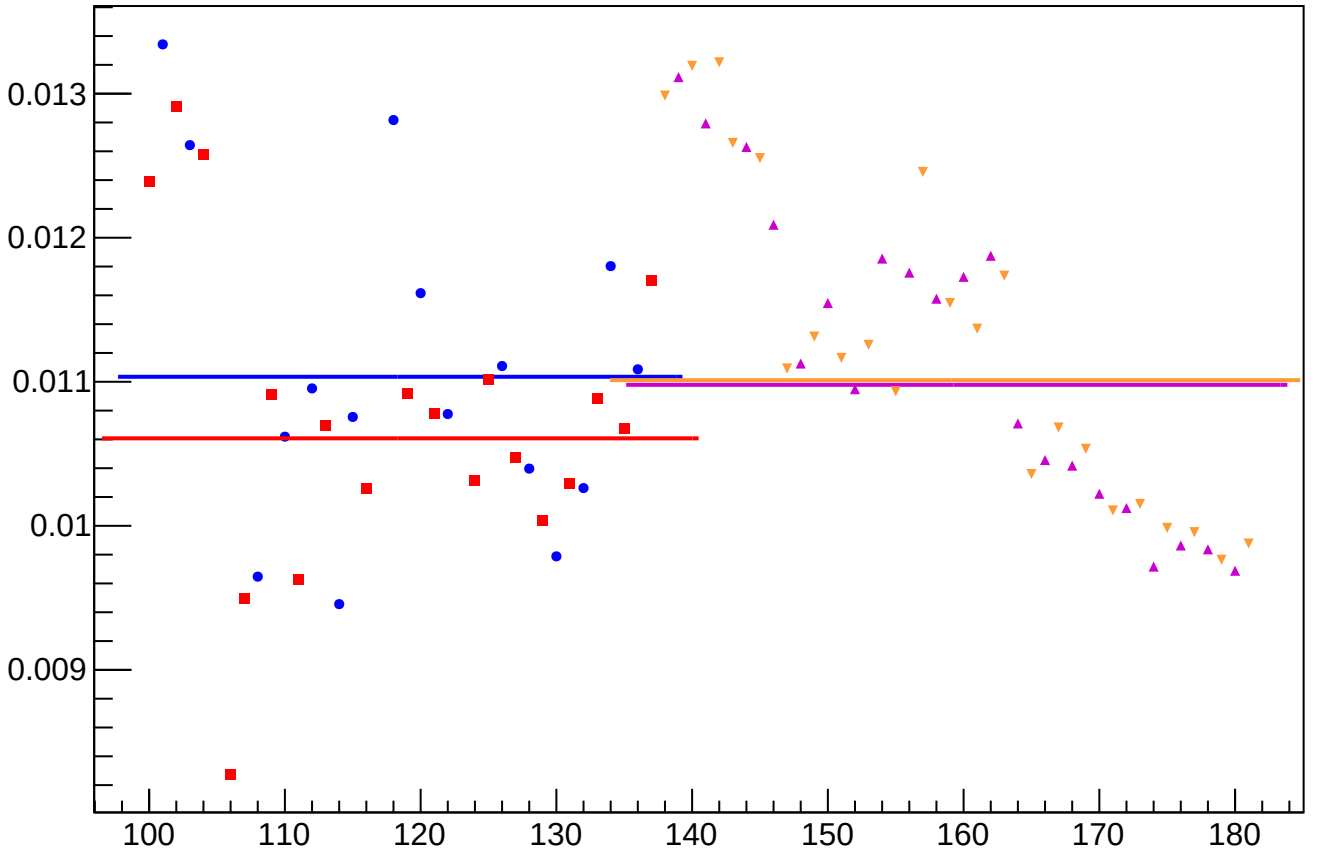
Left: 0.671+/-0.000 $\chi^2$/NDF: 16086544421.5/43

Right: 0.901+/-0.000 $\chi^2$/NDF: 339373965.5/34

In: 0.749+/-0.000 $\chi^2$/NDF:8998781405.1/36

Out: 0.732+/-0.000 $\chi^2$/NDF:11858293496.5/41

All: 0.740+/-0.000 $\chi^2$/NDF: 20886643262.1/7




Right In: 0.011+/-0.000 $\chi^2$/NDF: 130353.1/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:297136.1/22

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 143947.4/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:286613.3/20

Left: 0.011+/-0.000 $\chi^2$/NDF: 583896.1/43

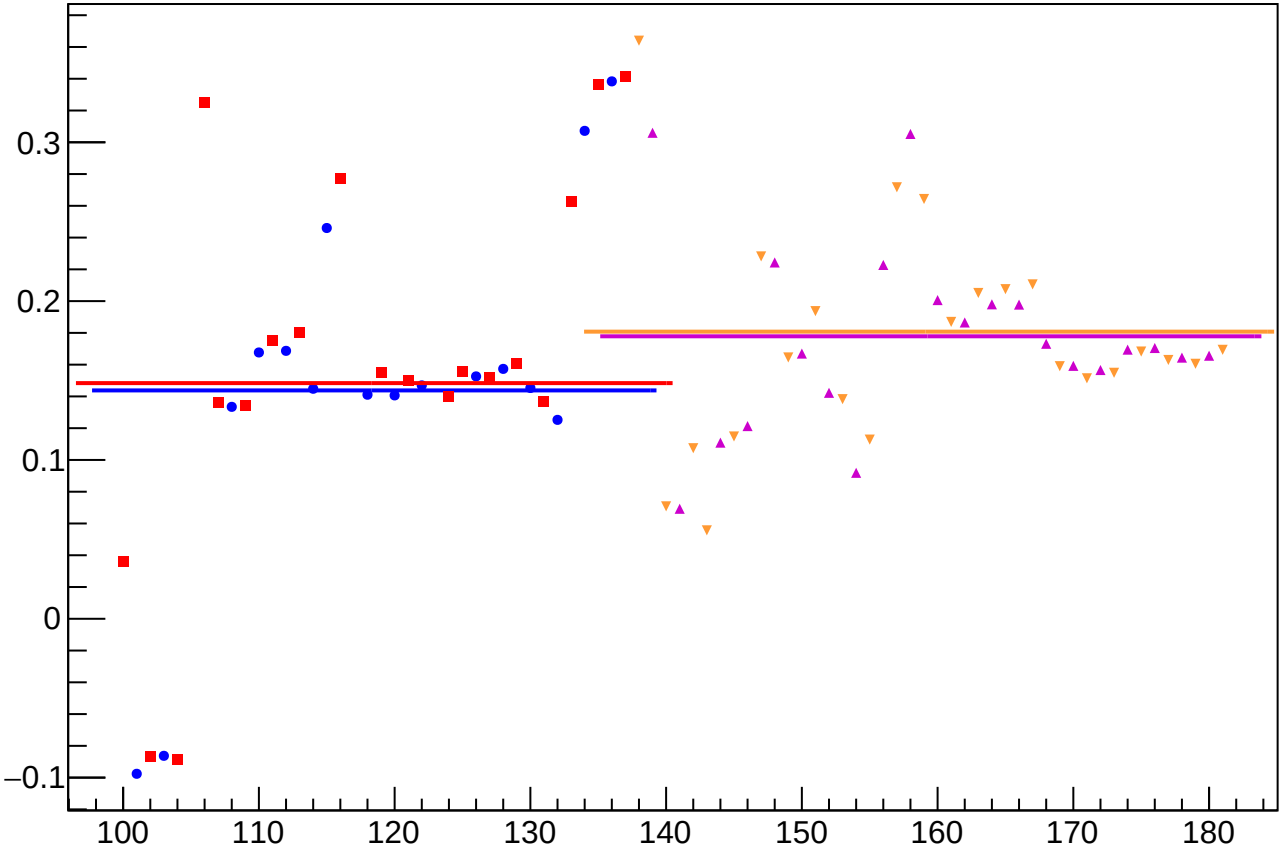
Right: 0.011+/-0.000 $\chi^2$/NDF: 285253.7/34

In: 0.011+/-0.000 $\chi^2$/NDF:417214.6/36

Out: 0.011+/-0.000 $\chi^2$/NDF:455541.5/41

All: 0.011+/-0.000 $\chi^2$/NDF: 875107.8/78

# yield_bpm0l09Y_mean vs Slug, Sign Corrected




Right In: 0.144+/-0.000 $\chi^2$/NDF: 7867304536.4/15

Left Out: 0.181+/-0.000 $\chi^2$/NDF:6426272109.0/22

Right Out: 0.148+/-0.000 $\chi^2$/NDF: 7128567107.5/18

Left In: 0.178+/-0.000 $\chi^2$/NDF:4606904262.9/20

Left: 0.179+/-0.000 $\chi^2$/NDF: 11040843356.3/43

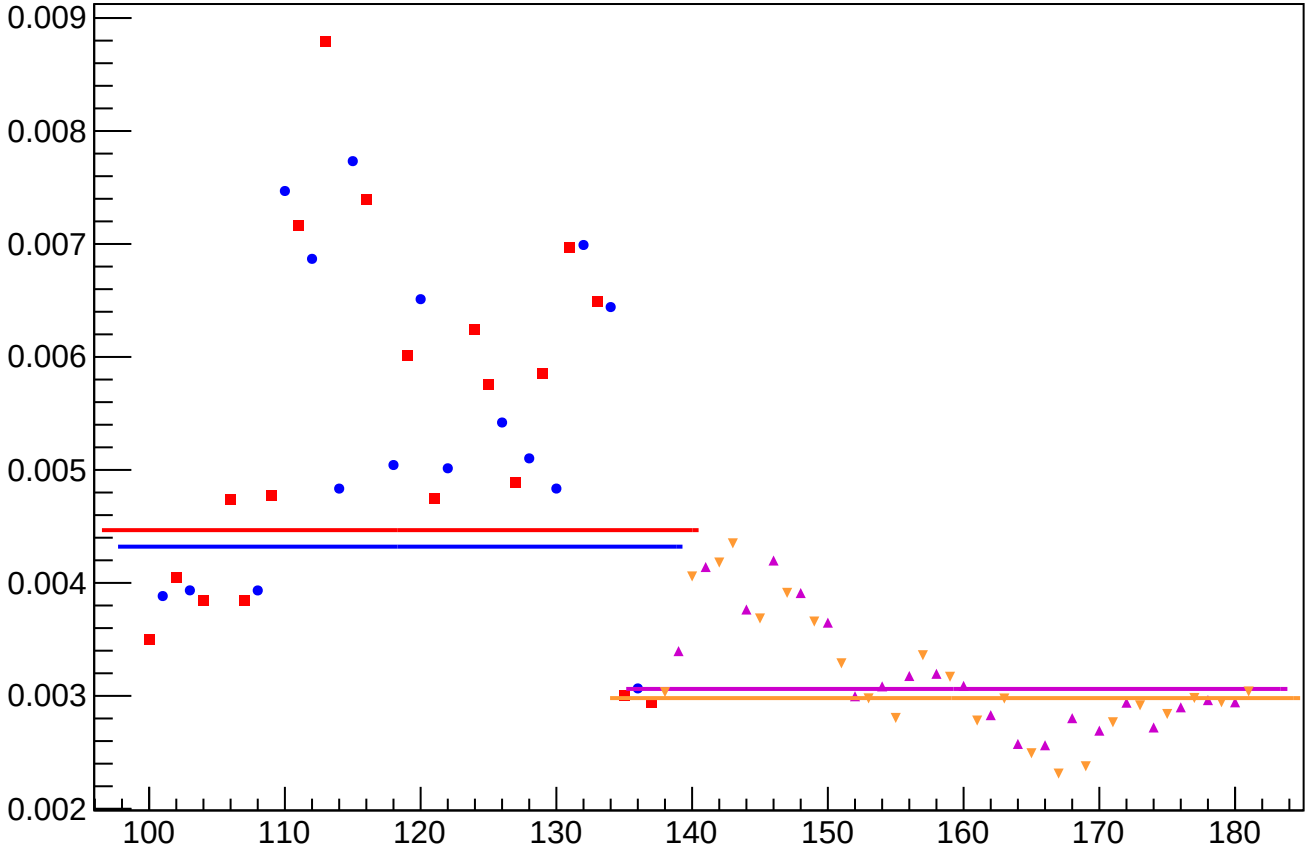
Right: 0.146+/-0.000 $\chi^2$/NDF: 14999065697.1/34

In: 0.173+/-0.000 $\chi^2$/NDF:12775432153.7/36

Out: 0.176+/-0.000 $\chi^2$/NDF:13824660983.7/41

All: 0.175+/-0.000 $\chi^2$/NDF: 26614861106.4/7

# yield_bpm0l09Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 878343.4/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:844657.8/22

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 1085759.3/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:578465.5/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 1434868.4/43

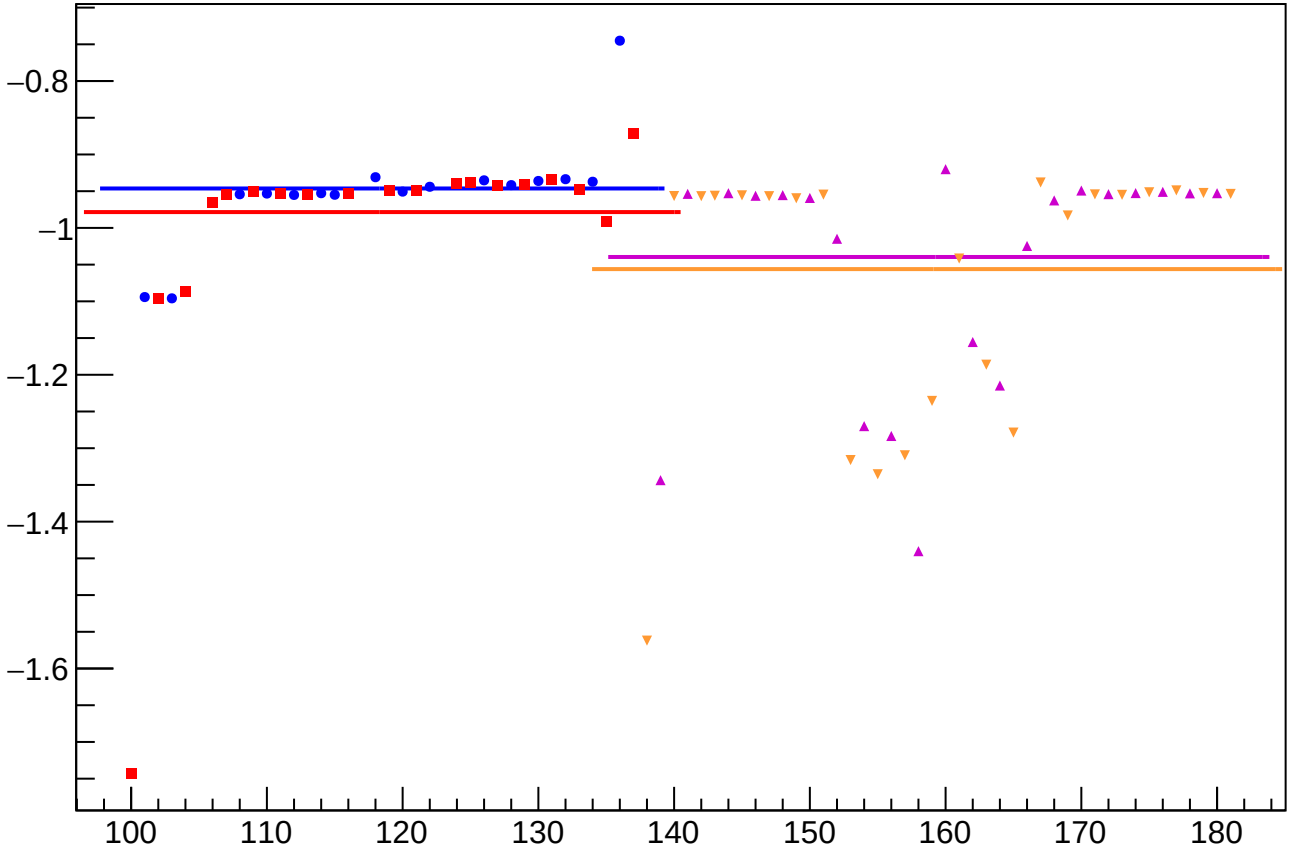
Right: 0.004+/-0.000 $\chi^2$/NDF: 1970552.0/34

In: 0.003+/-0.000 $\chi^2$/NDF:2280004.1/36

Out: 0.003+/-0.000 $\chi^2$/NDF:3066399.4/41

All: 0.003+/-0.000 $\chi^2$/NDF: 5357380.5/78

# yield_bpm0l10X_mean vs Slug, Sign Corrected




Right In: -0.946+/-0.000 $\chi^2$/NDF: 404509465.5/15

Left Out: -1.056+/-0.000 $\chi^2$/NDF:4984168902.0/22

Right Out: -0.978+/-0.000 $\chi^2$/NDF: 461081476.3/18

Left In: -1.040+/-0.000 $\chi^2$/NDF:3852796416.9/20

Left: -1.048+/-0.000 $\chi^2$/NDF: 8861094609.2/43

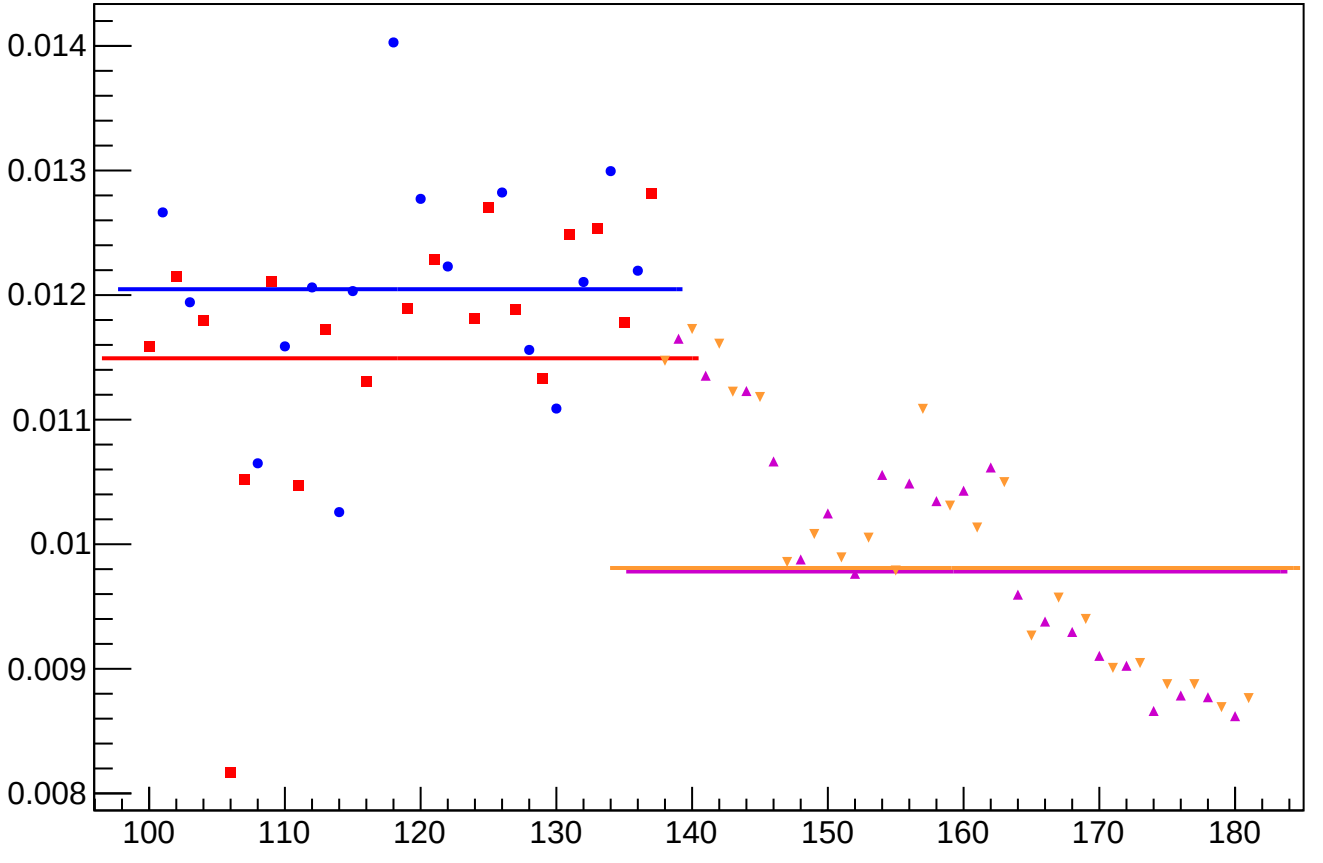
Right: -0.963+/-0.000 $\chi^2$/NDF: 891693396.9/34

In: -1.020+/-0.000 $\chi^2$/NDF:4580615824.4/36

Out: -1.038+/-0.000 $\chi^2$/NDF:5697068612.5/41

All: -1.029+/-0.000 $\chi^2$/NDF: 10317718676.3/

# yield_bpm0l10X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 62476.3/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:292153.6/22

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 151309.4/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:280787.9/20

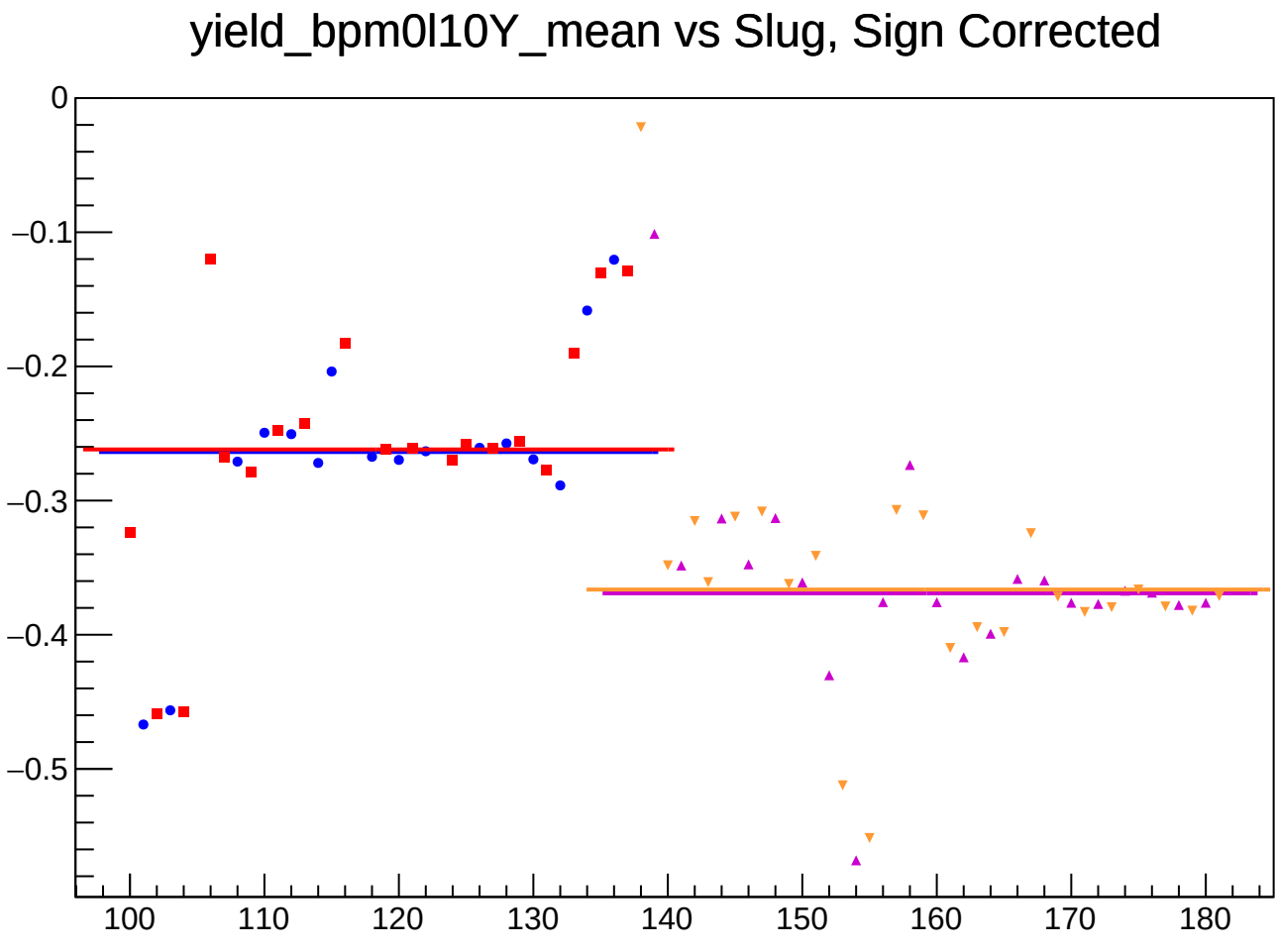
Left: 0.010+/-0.000 $\chi^2$/NDF: 573083.0/43

Right: 0.012+/-0.000 $\chi^2$/NDF: 229327.8/34

In: 0.010+/-0.000 $\chi^2$/NDF:724860.2/36

Out: 0.010+/-0.000 $\chi^2$/NDF:680156.6/41

All: 0.010+/-0.000 $\chi^2$/NDF: 1406226.0/78




Right In: -0.264+/-0.000 $\chi^2$/NDF: 6106171444.3/15

Left Out: -0.366+/-0.000 $\chi^2$/NDF:11939571061.6/22

Right Out: -0.262+/-0.000 $\chi^2$/NDF: 5250043427.3/18

Left In: -0.369+/-0.000 $\chi^2$/NDF:7580064339.7/20

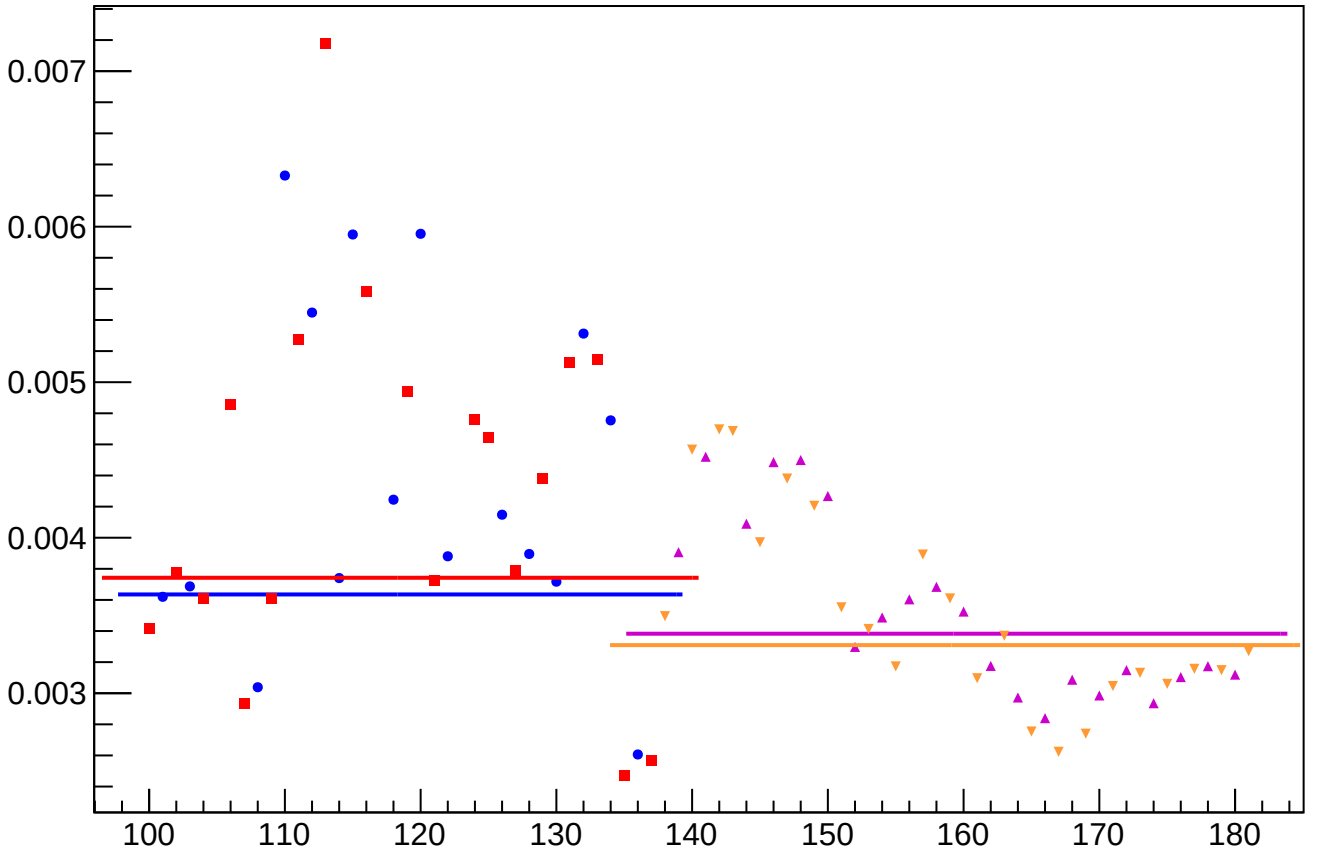
Left: -0.368+/-0.000 $\chi^2$/NDF: 19525229159.8/43

Right: -0.263+/-0.000 $\chi^2$/NDF: 11357011784.3/34

In: -0.344+/-0.000 $\chi^2$/NDF:17355922010.9/36

Out: -0.343+/-0.000 $\chi^2$/NDF:20844720746.1/41

All: -0.343+/-0.000 $\chi^2$/NDF: 38200740251.2/




Right In: 0.004+/-0.000 $\chi^2$/NDF: 728598.9/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:812429.2/22

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 894189.4/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:626582.1/20

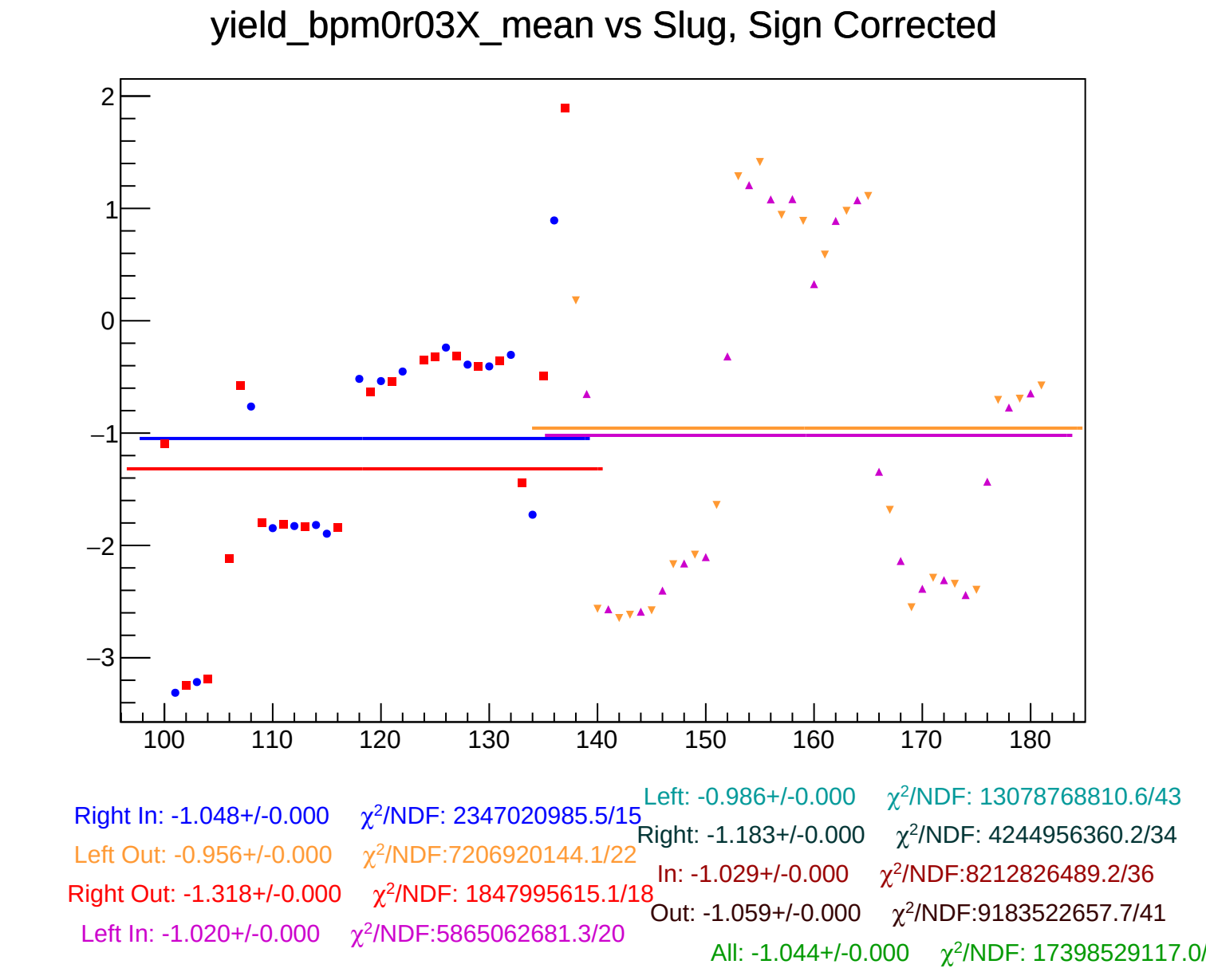
Left: 0.003+/-0.000 $\chi^2$/NDF: 1446759.2/43

Right: 0.004+/-0.000 $\chi^2$/NDF: 1627770.5/34

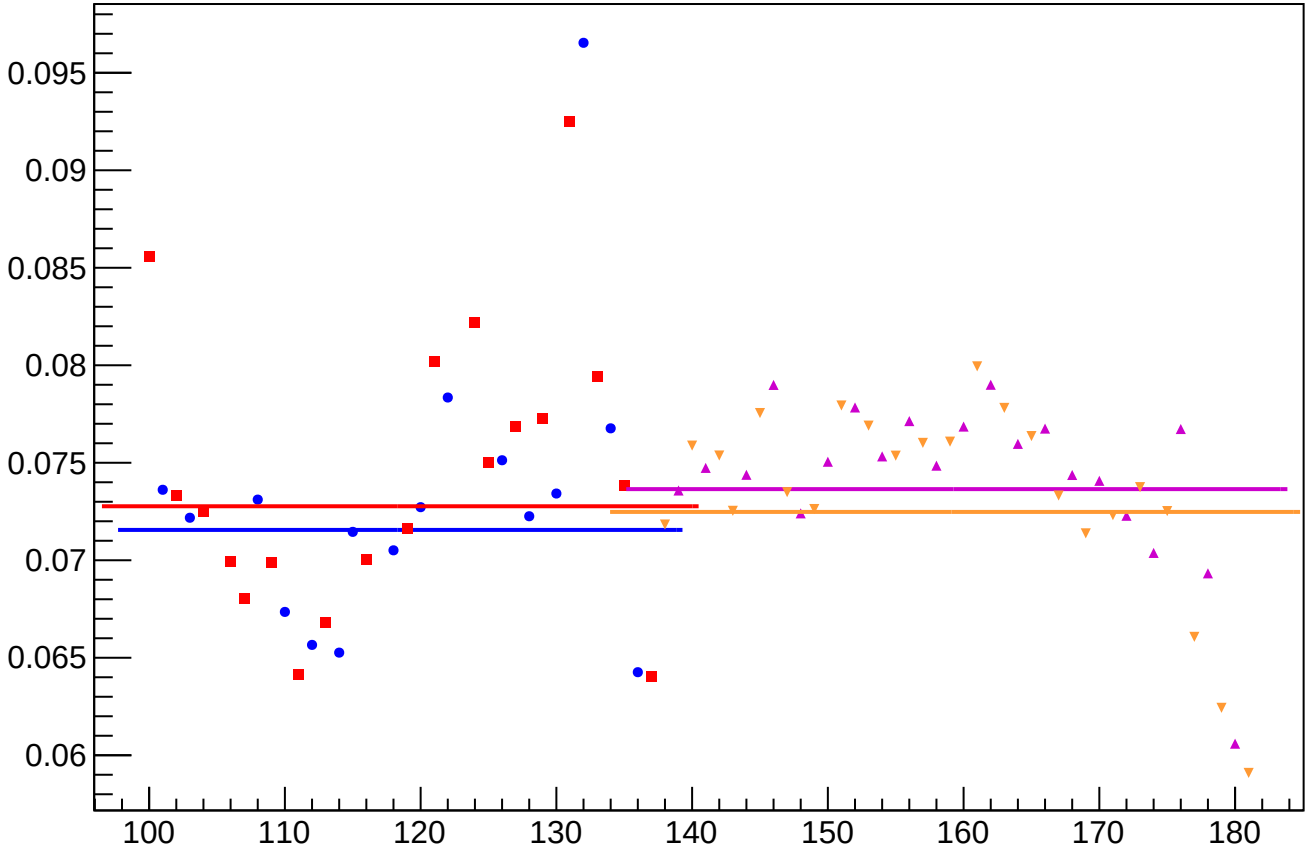
In: 0.003+/-0.000 $\chi^2$/NDF:1397374.1/36

Out: 0.003+/-0.000 $\chi^2$/NDF:1832323.1/41

All: 0.003+/-0.000 $\chi^2$/NDF: 3232549.5/78


yield_bpm0r03X_mean vs Slug, Sign Corrected
2
1
0
−1
−2
−3
100
110
120
130
140
150
160
170
180
Right In: -1.048+/-0.000 χ²/NDF: 2347020985.5/15
Left Out: -0.956+/-0.000 χ²/NDF:7206920144.1/22
Right Out: -1.318+/-0.000 χ²/NDF: 1847995615.1/18
Left In: -1.020+/-0.000 χ²/NDF:5865062681.3/20
Left: -0.986+/-0.000 χ²/NDF: 13078768810.6/43
Right: -1.183+/-0.000 χ²/NDF: 4244956360.2/34
In: -1.029+/-0.000 χ²/NDF:8212826489.2/36
Out: -1.059+/-0.000 χ²/NDF:9183522657.7/41
All: -1.044+/-0.000 χ²/NDF: 17398529117.0/

# yield_bpm0r03X_rms vs Slug, Sign Corrected




Right In: 0.072+/-0.000 $\chi^2$/NDF: 101238.7/15

Left Out: 0.072+/-0.000 $\chi^2$/NDF:204039.3/22

Right Out: 0.073+/-0.000 $\chi^2$/NDF: 96874.2/18

Left In: 0.074+/-0.000 $\chi^2$/NDF:128860.8/20

Left: 0.073+/-0.000 $\chi^2$/NDF: 337356.2/43

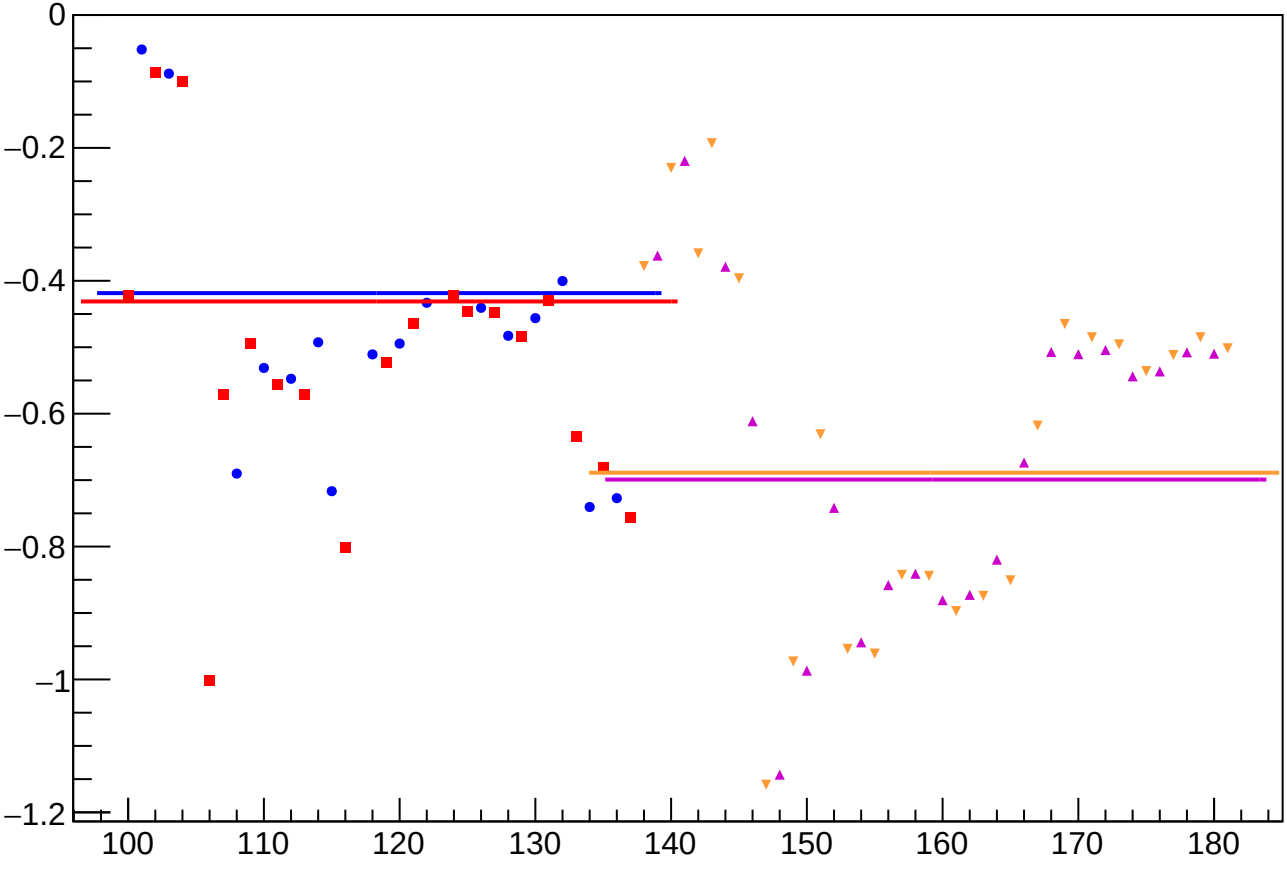
Right: 0.072+/-0.000 $\chi^2$/NDF: 200129.9/34

In: 0.073+/-0.000 $\chi^2$/NDF:238425.7/36

Out: 0.073+/-0.000 $\chi^2$/NDF:301078.2/41

All: 0.073+/-0.000 $\chi^2$/NDF: 540430.2/78

# yield_bpm0r03Y_mean vs Slug, Sign Corrected




Right In: -0.419+/-0.000 $\chi^2$/NDF: 3072147227.9/15

Left Out: -0.689+/-0.000 $\chi^2$/NDF:21295510611.5/22

Right Out: -0.431+/-0.000 $\chi^2$/NDF: 3196655095.4/18

Left In: -0.699+/-0.000 $\chi^2$/NDF:16236447435.0/20

Left: -0.694+/-0.000 $\chi^2$/NDF: 37551847099.2/43

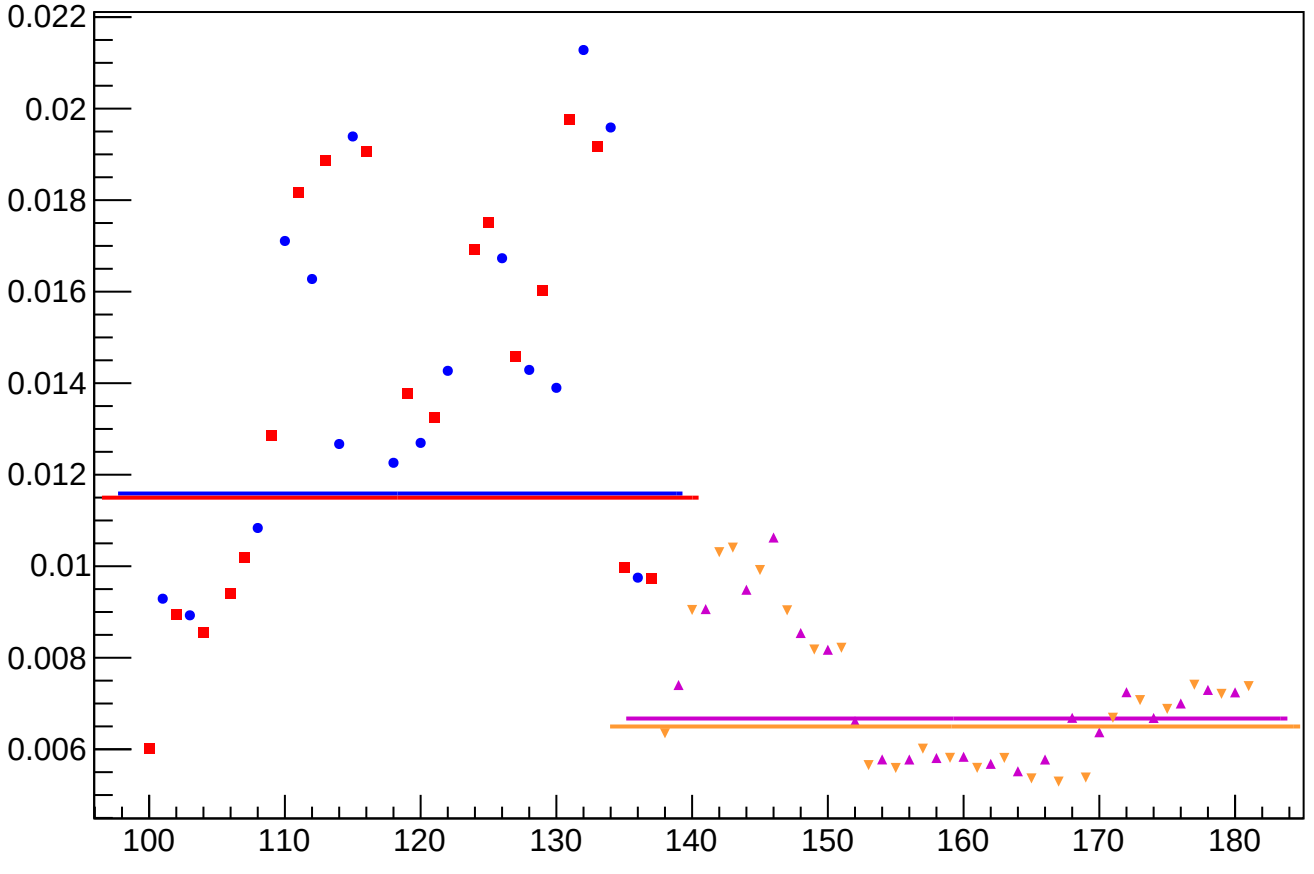
Right: -0.425+/-0.000 $\chi^2$/NDF: 6272338159.2/34

In: -0.668+/-0.000 $\chi^2$/NDF:22414545388.0/36

Out: -0.662+/-0.000 $\chi^2$/NDF:27198947025.6/41

All: -0.665+/-0.000 $\chi^2$/NDF: 49620222919.4/

# yield_bpm0r03Y_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 786260.7/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:1309288.2/22

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 1164657.0/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:917964.5/20

Left: 0.007+/-0.000 $\chi^2$/NDF: 2238592.2/43

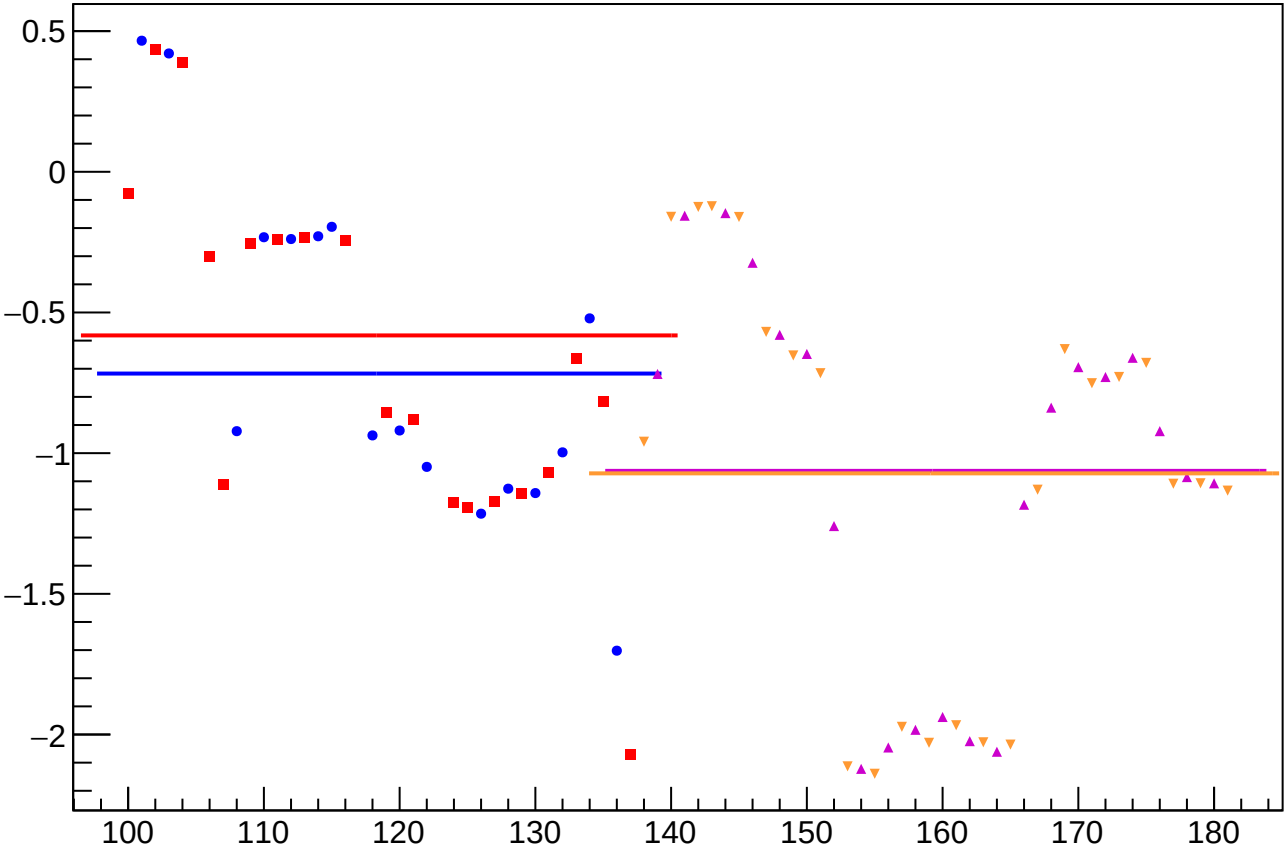
Right: 0.012+/-0.000 $\chi^2$/NDF: 1951282.6/34

In: 0.007+/-0.000 $\chi^2$/NDF:3611078.0/36

Out: 0.007+/-0.000 $\chi^2$/NDF:4511811.0/41

All: 0.007+/-0.000 $\chi^2$/NDF: 8140585.5/78

# yield_bpm0r05X_mean vs Slug, Sign Corrected




Right In: -0.717+/-0.000 $\chi^2$/NDF: 437423792.4/15

Left Out: -1.072+/-0.000 $\chi^2$/NDF:1149056628.3/22

Right Out: -0.582+/-0.000 $\chi^2$/NDF: 342062039.8/18

Left In: -1.063+/-0.000 $\chi^2$/NDF:973415846.0/20

Left: -1.068+/-0.000 $\chi^2$/NDF: 2122569977.4/43

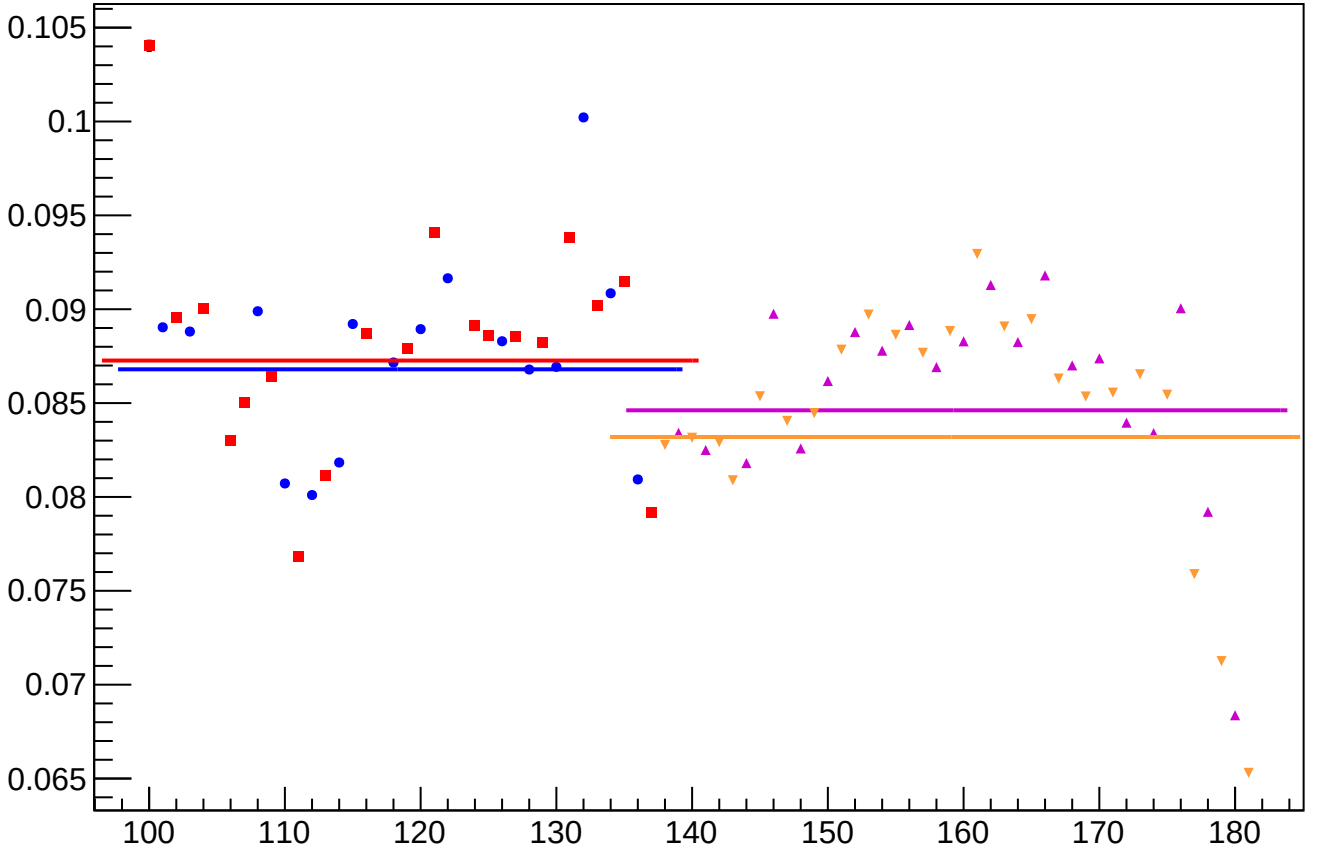
Right: -0.648+/-0.000 $\chi^2$/NDF: 788347373.4/34

In: -0.964+/-0.000 $\chi^2$/NDF:1492205369.8/36

Out: -0.938+/-0.000 $\chi^2$/NDF:1662157078.9/41

All: -0.951+/-0.000 $\chi^2$/NDF: 3155507371.0/7

# yield_bpm0r05X_rms vs Slug, Sign Corrected




Right In: 0.087+/-0.000 $\chi^2$/NDF: 43575.8/15

Left Out: 0.083+/-0.000 $\chi^2$/NDF:259590.0/22

Right Out: 0.087+/-0.000 $\chi^2$/NDF: 46163.9/18

Left In: 0.085+/-0.000 $\chi^2$/NDF:161091.8/20

Left: 0.084+/-0.000 $\chi^2$/NDF: 425720.7/43

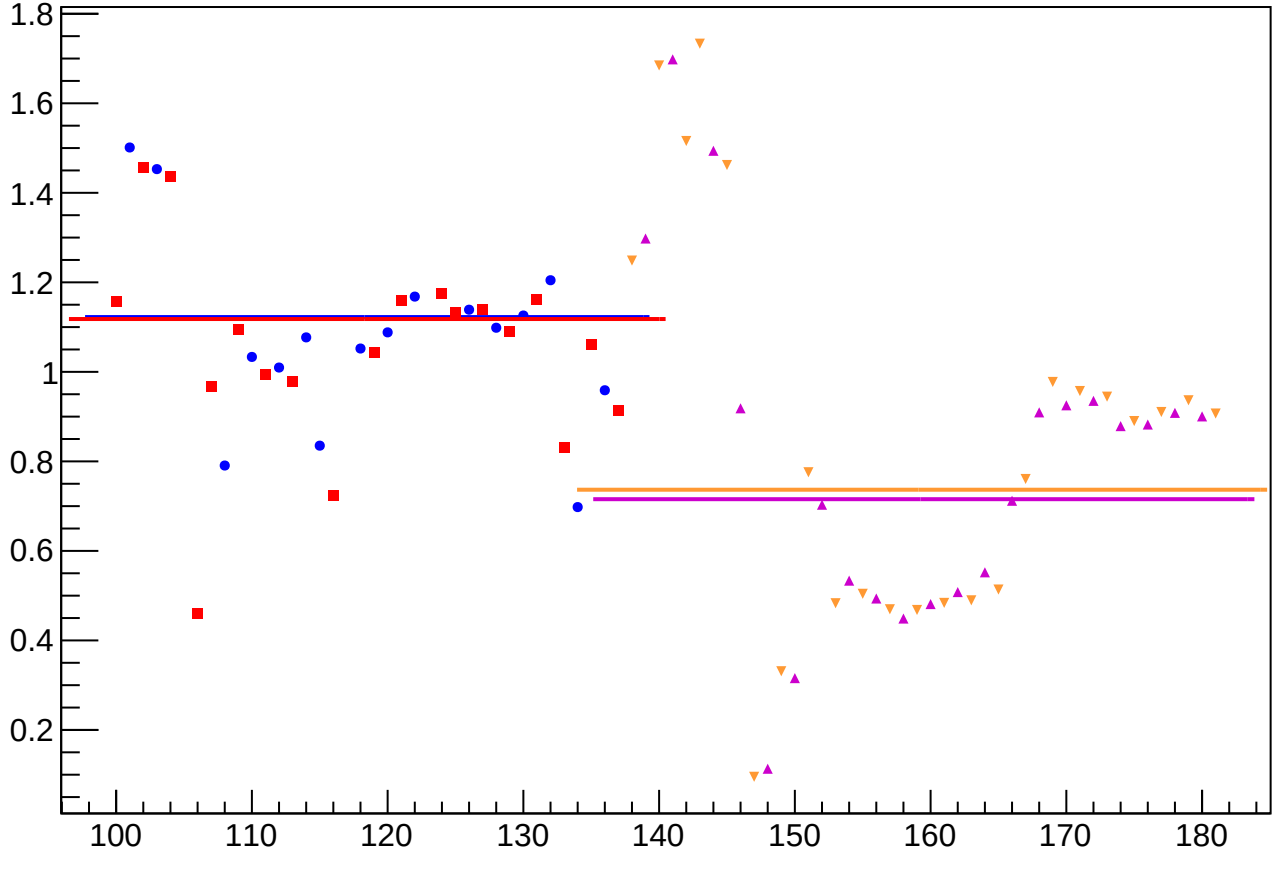
Right: 0.087+/-0.000 $\chi^2$/NDF: 89950.5/34

In: 0.085+/-0.000 $\chi^2$/NDF:211152.2/36

Out: 0.084+/-0.000 $\chi^2$/NDF:329357.2/41

All: 0.085+/-0.000 $\chi^2$/NDF: 543548.7/78

# yield_bpm0r05Y_mean vs Slug, Sign Corrected




Right In: 1.122+/-0.000 $\chi^2$/NDF: 1454303379.1/15

Left Out: 0.737+/-0.000 $\chi^2$/NDF:32256091852.2/22

Right Out: 1.118+/-0.000 $\chi^2$/NDF: 1570269350.9/18

Left In: 0.716+/-0.000 $\chi^2$/NDF:25229631903.5/20

Left: 0.727+/-0.000 $\chi^2$/NDF: 57541533944.0/43

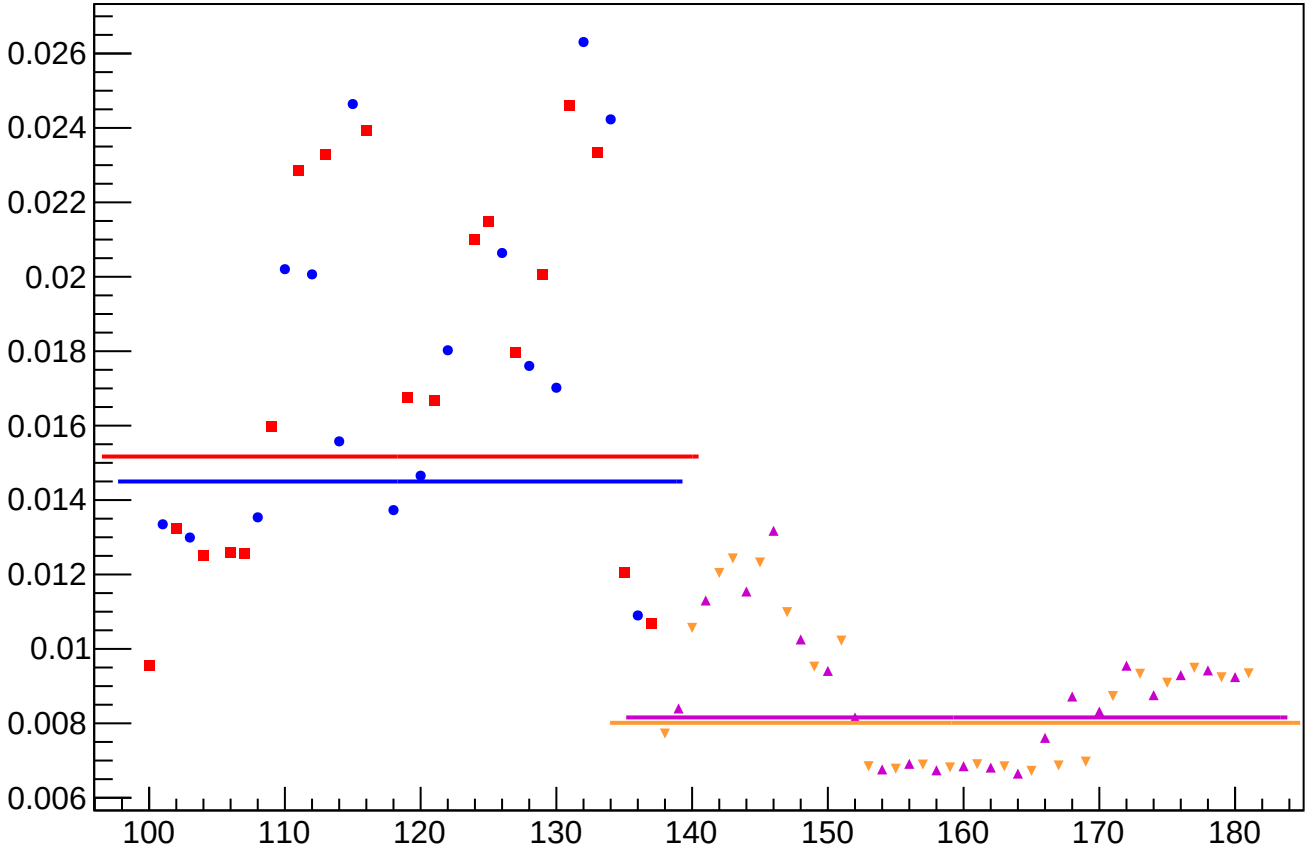
Right: 1.120+/-0.000 $\chi^2$/NDF: 3024831149.0/34

In: 0.759+/-0.000 $\chi^2$/NDF:30882758034.2/36

Out: 0.772+/-0.000 $\chi^2$/NDF:37344727397.3/41

All: 0.766+/-0.000 $\chi^2$/NDF: 68250532050.9/7

# yield_bpm0r05Y_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 710345.3/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:1330511.3/22

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 864637.6/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:1086449.9/20

Left: 0.008+/-0.000 $\chi^2$/NDF: 2422203.6/43

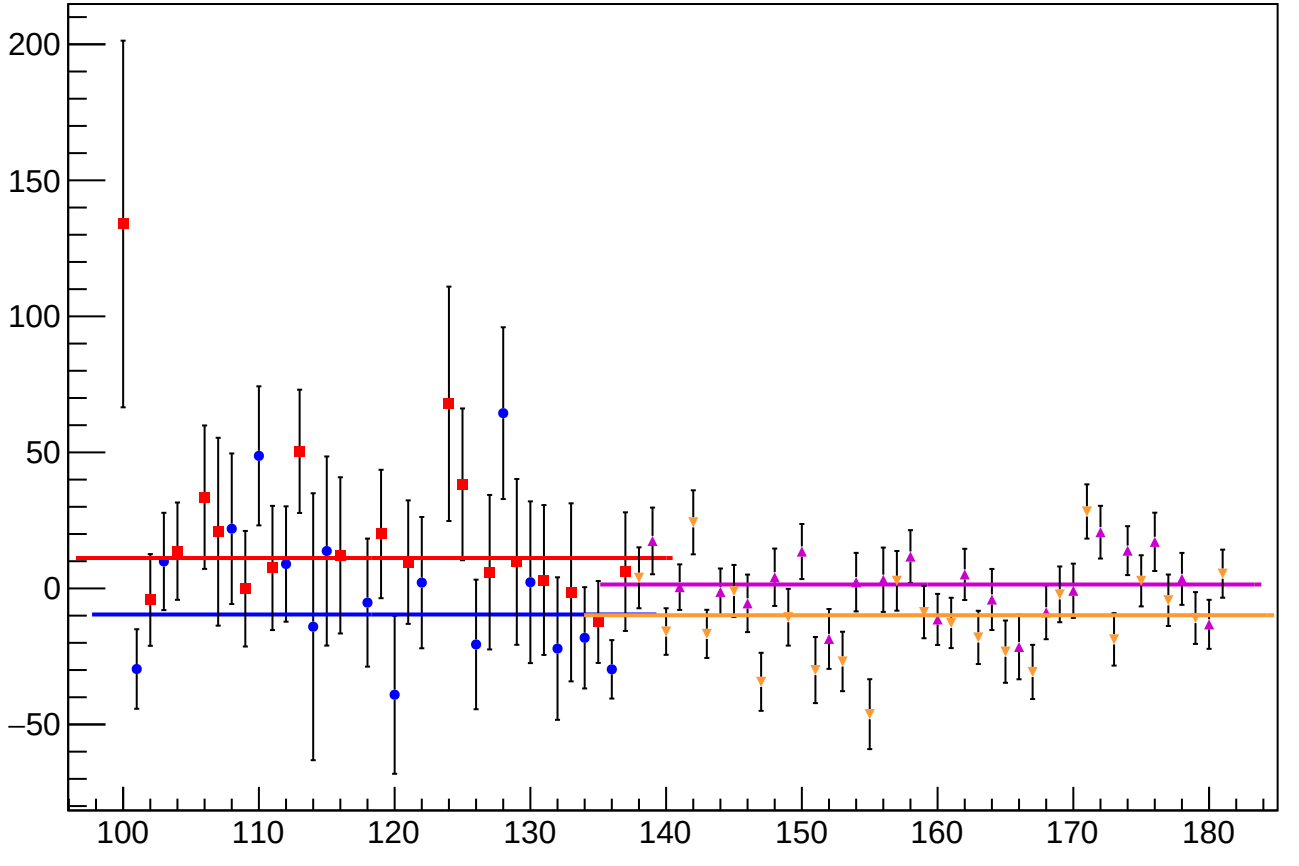
Right: 0.015+/-0.000 $\chi^2$/NDF: 1587355.3/34

In: 0.009+/-0.000 $\chi^2$/NDF:3836322.6/36

Out: 0.009+/-0.000 $\chi^2$/NDF:4673243.7/41

All: 0.009+/-0.000 $\chi^2$/NDF: 8516810.7/78

# diff_bpm4aX_mean vs Slug, Sign Corrected




Right In: -9.581+/-5.291 $\chi^2$/NDF: 21.9/15

Left Out: -9.851+/-2.097 $\chi^2$/NDF:59.4/22

Right Out: 11.177+/-5.497 $\chi^2$/NDF: 13.9/18

Left In: 1.445+/-2.183 $\chi^2$/NDF:26.0/20

Left: -4.430+/-1.512 $\chi^2$/NDF: 99.4/43

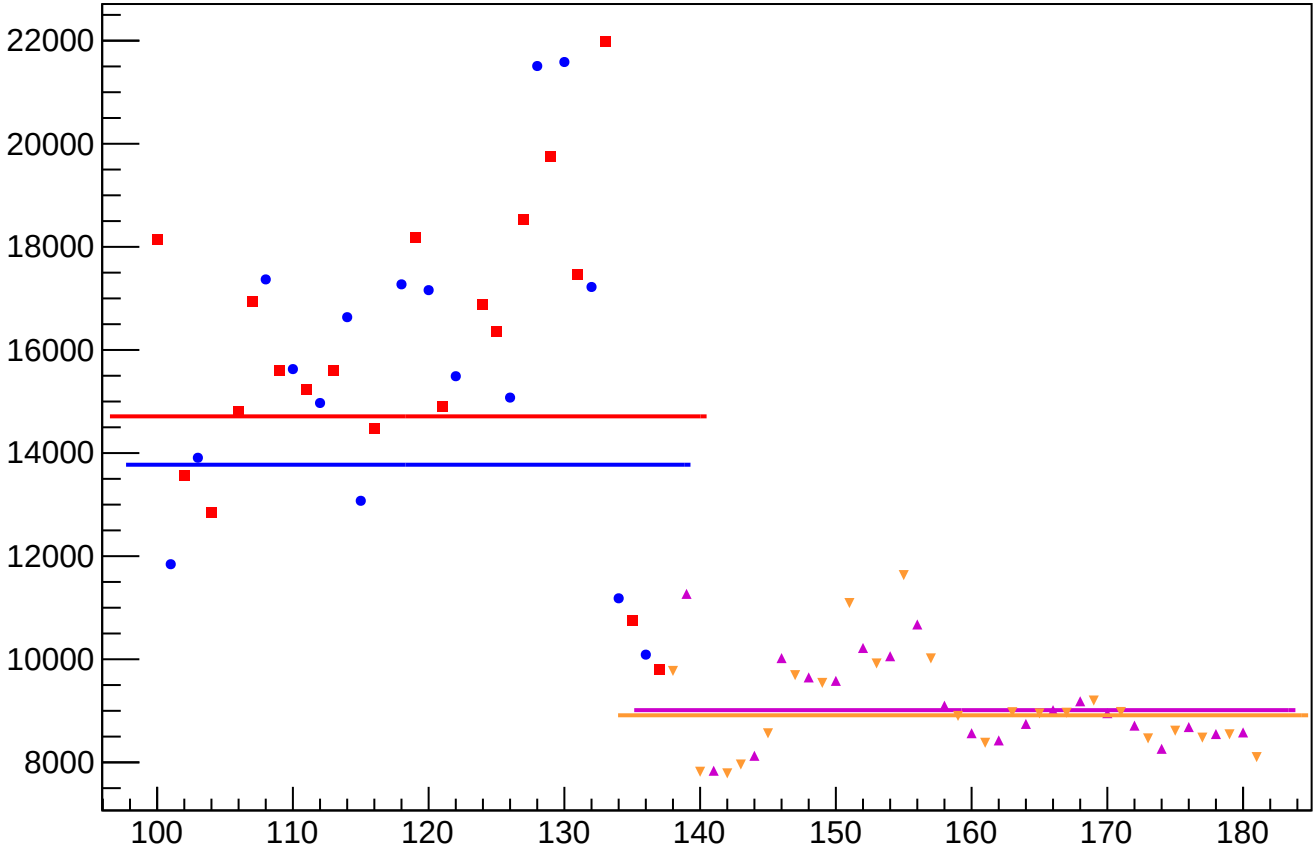
Right: 0.401+/-3.812 $\chi^2$/NDF: 43.2/34

In: -0.159+/-2.018 $\chi^2$/NDF:51.7/36

Out: -7.180+/-1.959 $\chi^2$/NDF:86.0/41

All: -3.773+/-1.406 $\chi^2$/NDF: 143.9/78

# diff_bpm4aX_rms vs Slug, Sign Corrected




Right In: 13773.886+/-3.741 $\chi^2$/NDF: 747586.2/15

Left Out: 8913.285+/-1.483 $\chi^2$/NDF:336605.6/22

Right Out: 14712.201+/-3.887 $\chi^2$/NDF: 557305.5/18

Left In: 9013.290+/-1.544 $\chi^2$/NDF:284001.0/20

Left: 8961.283+/-1.069 $\chi^2$/NDF: 622789.4/43

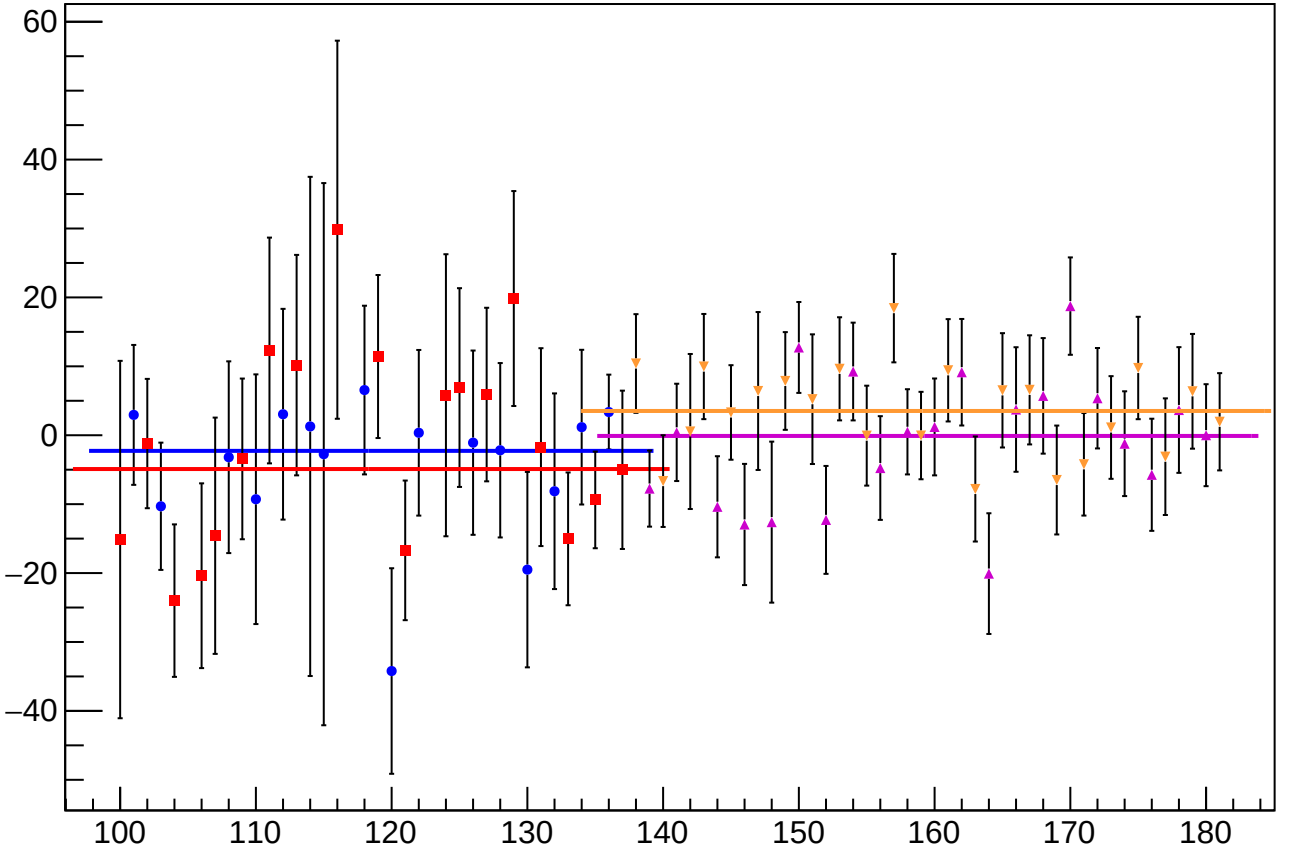
Right: 14225.090+/-2.695 $\chi^2$/NDF: 1335141.9/34

In: 9705.849+/-1.427 $\chi^2$/NDF:2415320.2/36

Out: 9650.038+/-1.386 $\chi^2$/NDF:2836742.9/41

All: 9677.123+/-0.994 $\chi^2$/NDF: 5252850.6/78

# diff_bpm4aY_mean vs Slug, Sign Corrected




Right In: -2.267+/-2.922 $\chi^2$/NDF: 9.3/15

Left Out: 3.522+/-1.602 $\chi^2$/NDF:16.7/22

Right Out: -4.904+/-2.836 $\chi^2$/NDF: 17.6/18

Left In: -0.101+/-1.638 $\chi^2$/NDF:31.2/20

Left: 1.750+/-1.145 $\chi^2$/NDF: 50.4/43

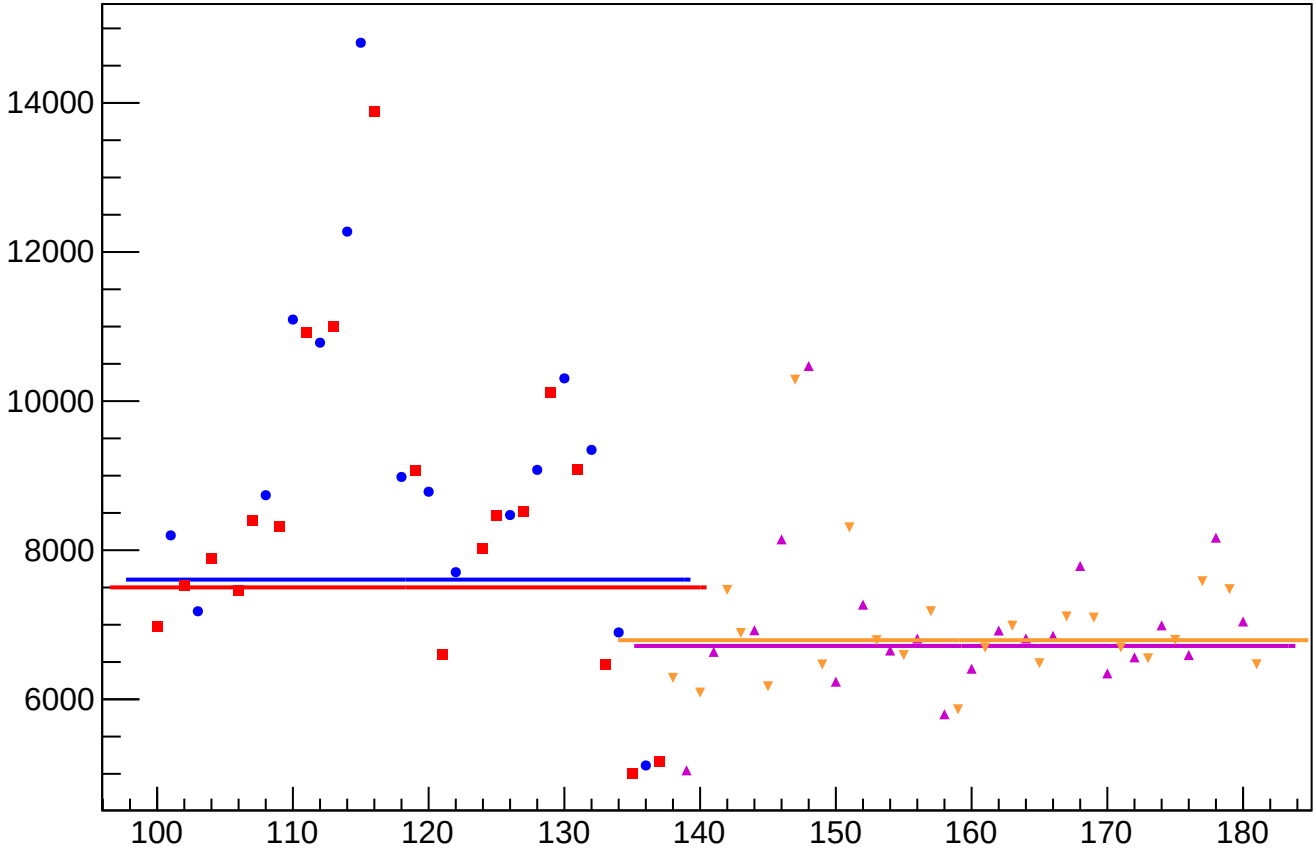
Right: -3.625+/-2.035 $\chi^2$/NDF: 27.3/34

In: -0.619+/-1.429 $\chi^2$/NDF:40.9/36

Out: 1.483+/-1.395 $\chi^2$/NDF:41.0/41

All: 0.457+/-0.998 $\chi^2$/NDF: 83.0/78

# diff_bpm4aY_rms vs Slug, Sign Corrected




Right In: 7605.700+/-2.066 $\chi^2$/NDF: 891494.3/15

Left Out: 6792.819+/-1.133 $\chi^2$/NDF:395552.8/22

Right Out: 7501.522+/-2.005 $\chi^2$/NDF: 823557.5/18

Left In: 6715.563+/-1.158 $\chi^2$/NDF:611870.8/20

Left: 6755.046+/-0.810 $\chi^2$/NDF: 1009697.6/43

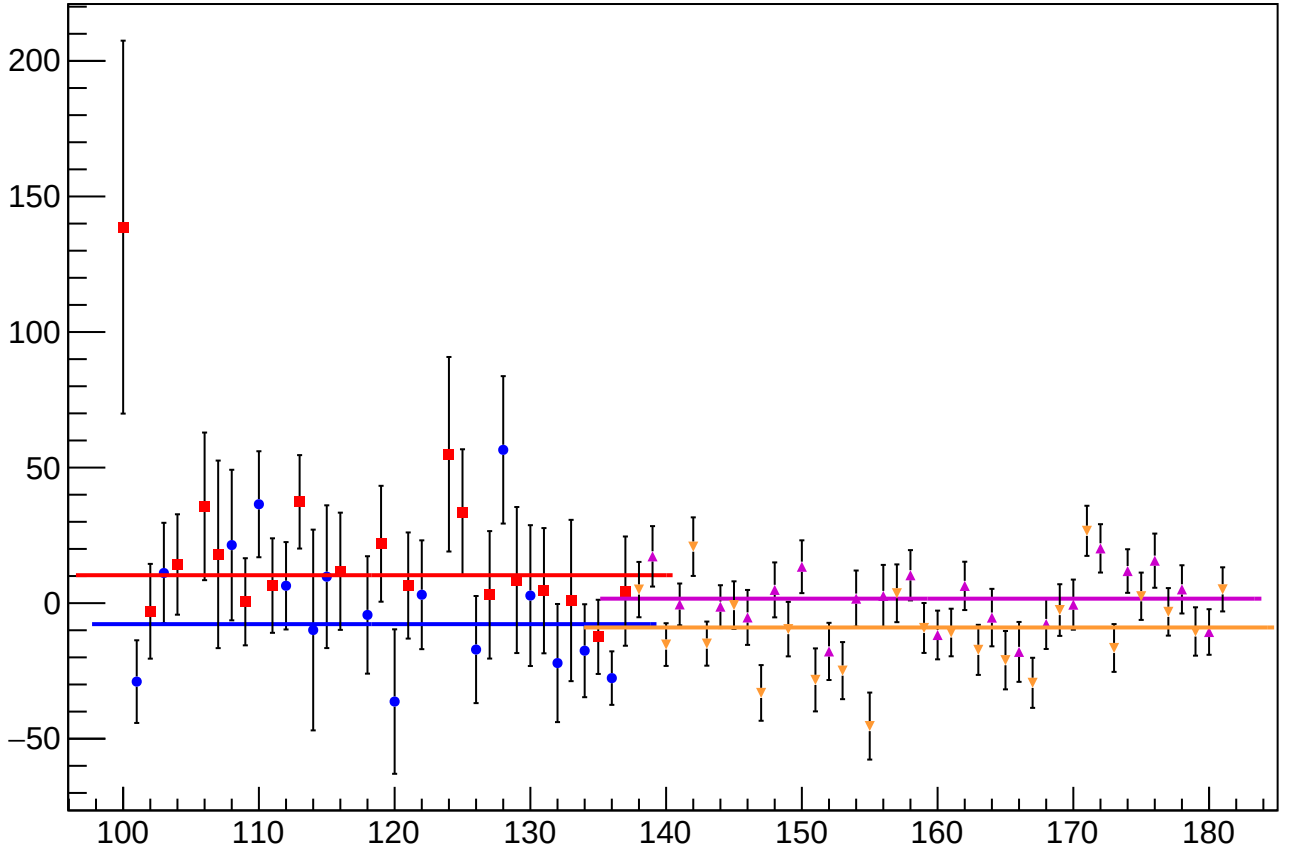
Right: 7552.053+/-1.439 $\chi^2$/NDF: 1716360.9/34

In: 6928.379+/-1.010 $\chi^2$/NDF:1644589.3/36

Out: 6964.265+/-0.986 $\chi^2$/NDF:1313796.0/41

All: 6946.753+/-0.706 $\chi^2$/NDF: 2959031.4/78

# diff_bpm4eX_mean vs Slug, Sign Corrected




Right In: -7.741+/-4.748 $\chi^2$/NDF: 22.7/15

Left Out: -8.969+/-1.962 $\chi^2$/NDF:60.4/22

Right Out: 10.307+/-4.840 $\chi^2$/NDF: 13.9/18

Left In: 1.654+/-2.046 $\chi^2$/NDF:25.8/20

Left: -3.881+/-1.416 $\chi^2$/NDF: 100.3/43

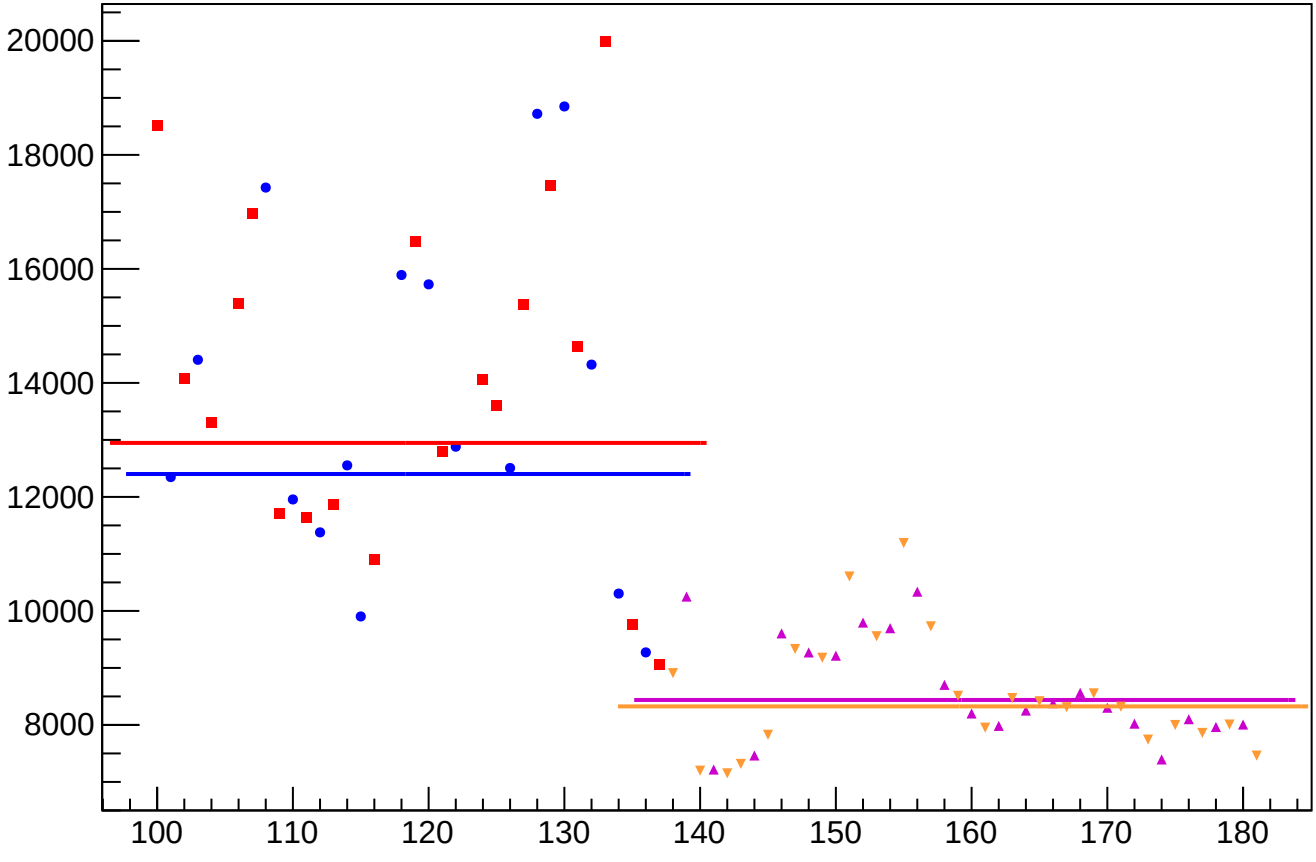
Right: 1.111+/-3.389 $\chi^2$/NDF: 43.7/34

In: 0.183+/-1.879 $\chi^2$/NDF:51.8/36

Out: -6.249+/-1.818 $\chi^2$/NDF:88.0/41

All: -3.139+/-1.307 $\chi^2$/NDF: 145.9/78

# diff_bpm4eX_rms vs Slug, Sign Corrected




Right In: 12401.769+/-3.357 $\chi^2$/NDF: 678310.8/15

Left Out: 8325.216+/-1.387 $\chi^2$/NDF:437016.6/22

Right Out: 12947.255+/-3.422 $\chi^2$/NDF: 555198.3/18

Left In: 8437.913+/-1.447 $\chi^2$/NDF:365026.8/20

Left: 8379.195+/-1.001 $\chi^2$/NDF: 805205.1/43

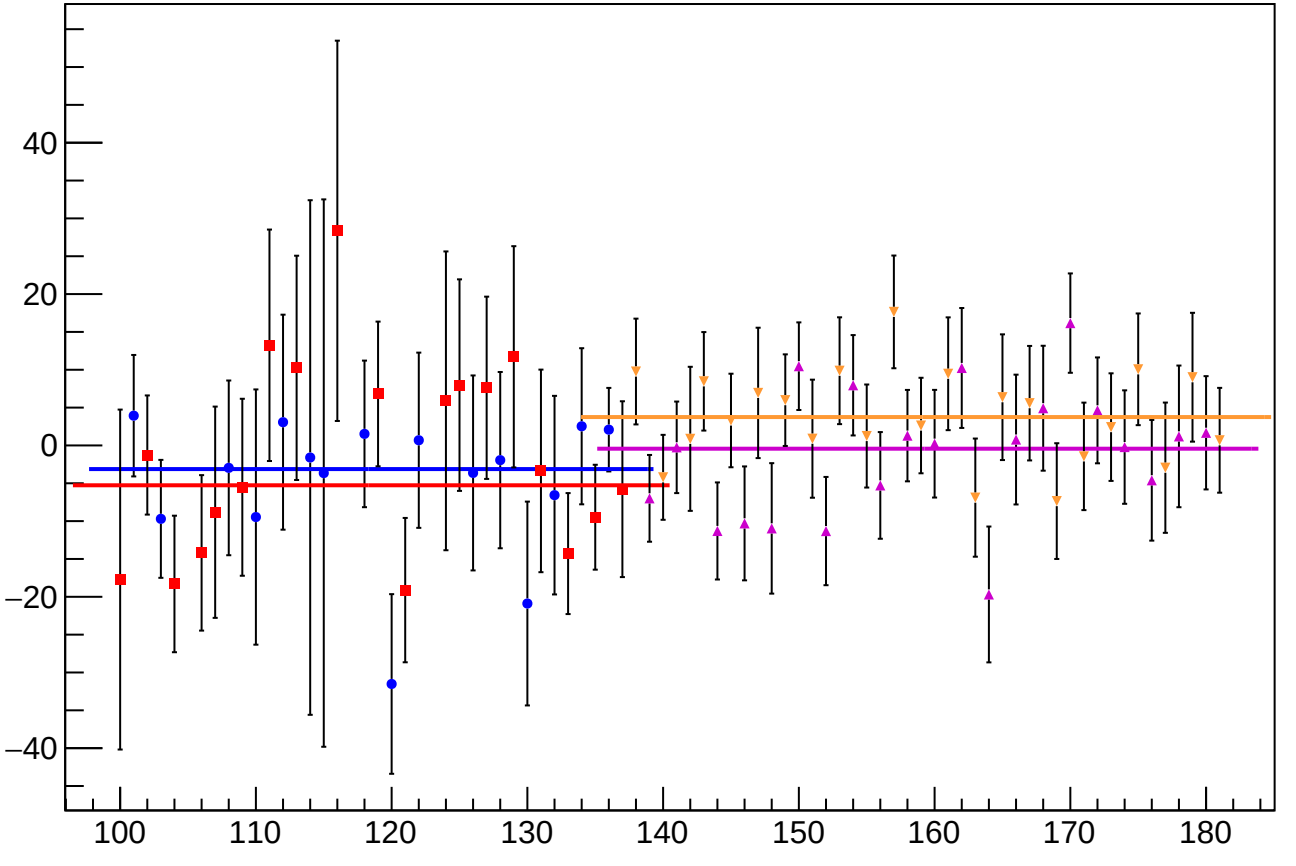
Right: 12669.304+/-2.397 $\chi^2$/NDF: 1246455.4/34

In: 9058.653+/-1.329 $\chi^2$/NDF:2218906.7/36

Out: 8977.441+/-1.286 $\chi^2$/NDF:2558946.3/41

All: 9016.709+/-0.924 $\chi^2$/NDF: 4779782.8/78

# diff_bpm4eY_mean vs Slug, Sign Corrected




Right In: -3.123+/-2.656 $\chi^2$/NDF: 10.9/15

Left Out: 3.750+/-1.500 $\chi^2$/NDF:15.4/22

Right Out: -5.265+/-2.553 $\chi^2$/NDF: 16.9/18

Left In: -0.431+/-1.551 $\chi^2$/NDF:29.6/20

Left: 1.730+/-1.078 $\chi^2$/NDF: 48.7/43

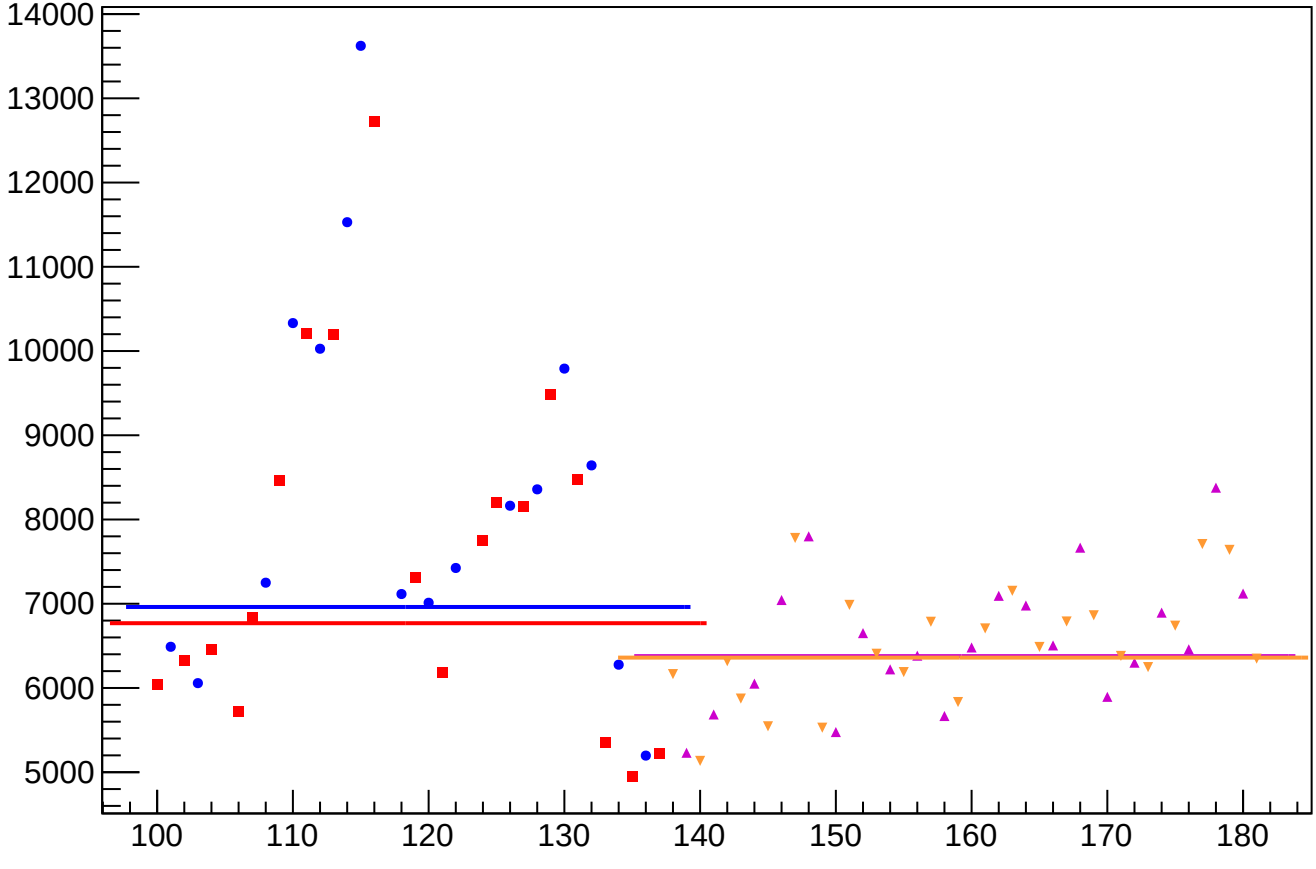
Right: -4.236+/-1.840 $\chi^2$/NDF: 28.1/34

In: -1.116+/-1.339 $\chi^2$/NDF:41.2/36

Out: 1.437+/-1.293 $\chi^2$/NDF:41.6/41

All: 0.206+/-0.930 $\chi^2$/NDF: 84.7/78

# diff_bpm4eY_rms vs Slug, Sign Corrected




Right In: 6961.606+/-1.878 $\chi^2$/NDF: 696410.4/15

Left Out: 6360.518+/-1.060 $\chi^2$/NDF:410505.3/22

Right Out: 6768.993+/-1.805 $\chi^2$/NDF: 798105.0/18

Left In: 6378.059+/-1.097 $\chi^2$/NDF:468445.0/20

Left: 6368.993+/-0.762 $\chi^2$/NDF: 879082.5/43

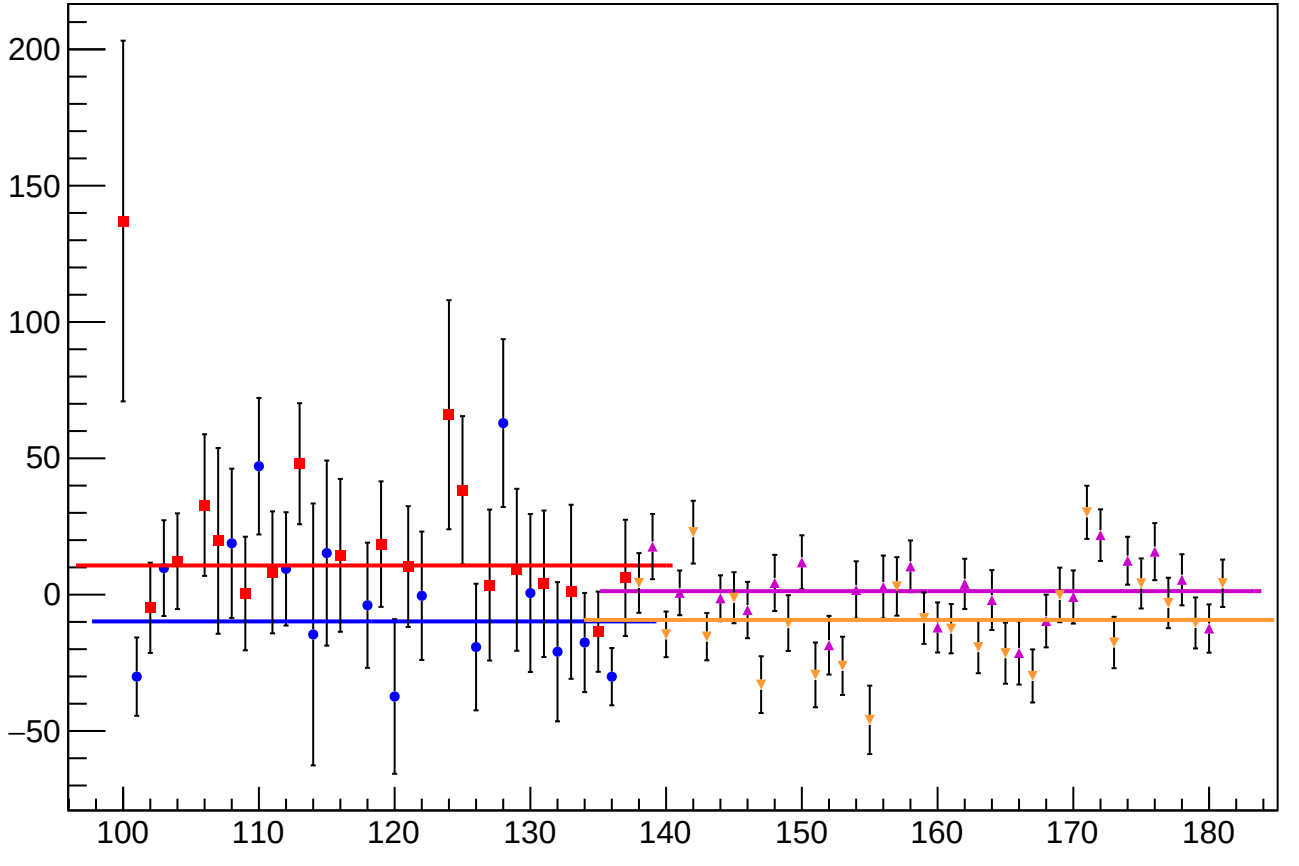
Right: 6861.506+/-1.301 $\chi^2$/NDF: 1499983.0/34

In: 6526.476+/-0.947 $\chi^2$/NDF:1236862.9/36

Out: 6465.292+/-0.914 $\chi^2$/NDF:1246675.0/41

All: 6494.808+/-0.658 $\chi^2$/NDF: 2485698.2/78

# diff_bpm4acX_mean vs Slug, Sign Corrected




Right In: -9.810+/-5.178 $\chi^2$/NDF: 22.0/15

Left Out: -9.270+/-2.052 $\chi^2$/NDF:61.3/22

Right Out: 10.703+/-5.381 $\chi^2$/NDF: 14.3/18

Left In: 1.295+/-2.136 $\chi^2$/NDF:26.2/20

Left: -4.198+/-1.480 $\chi^2$/NDF: 100.2/43

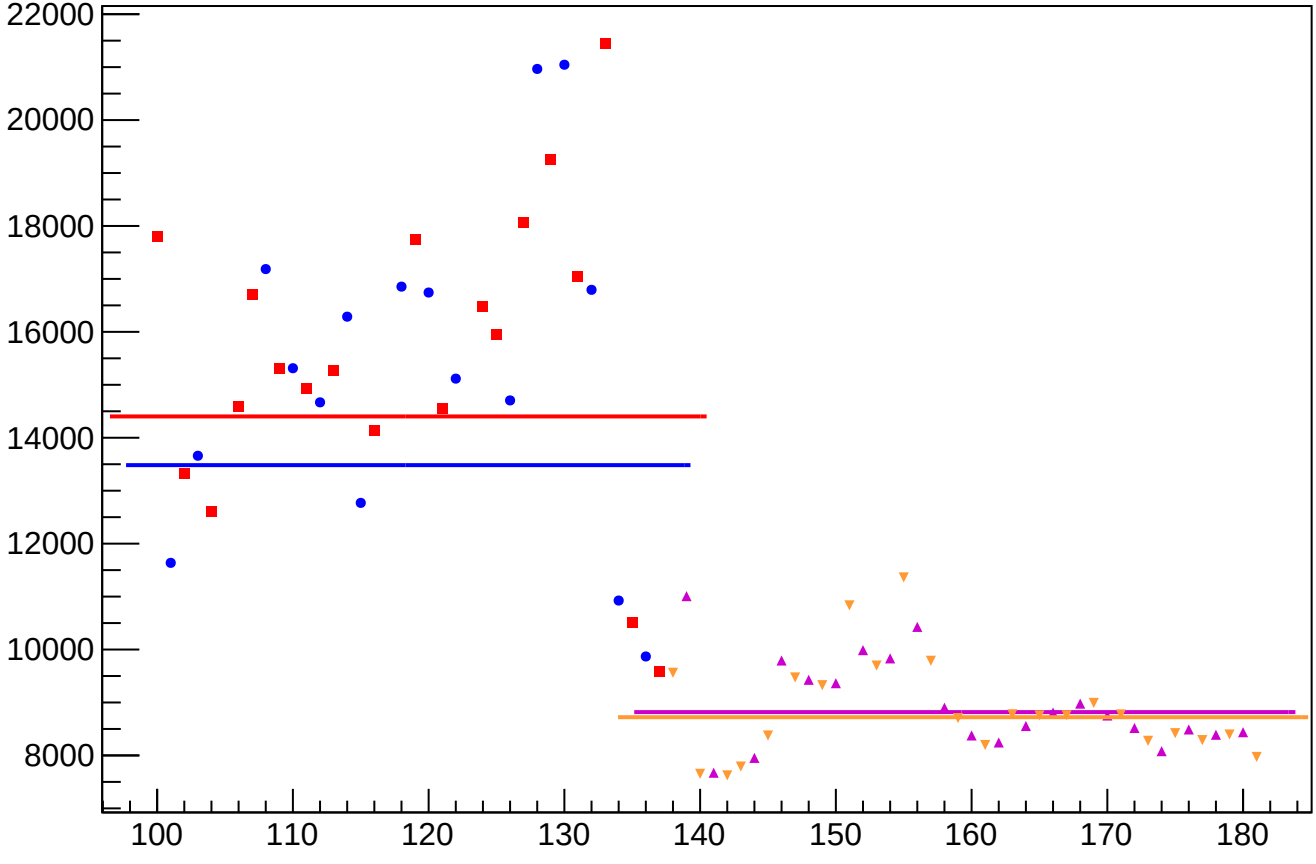
Right: 0.053+/-3.731 $\chi^2$/NDF: 43.9/34

In: -0.319+/-1.974 $\chi^2$/NDF:52.2/36

Out: -6.734+/-1.917 $\chi^2$/NDF:87.6/41

All: -3.621+/-1.375 $\chi^2$/NDF: 145.2/78

# diff_bpm4acX_rms vs Slug, Sign Corrected




Right In: 13482.879+/-3.661 $\chi^2$/NDF: 743704.4/15

Left Out: 8721.839+/-1.451 $\chi^2$/NDF:330836.9/22

Right Out: 14402.670+/-3.805 $\chi^2$/NDF: 552430.0/18

Left In: 8818.318+/-1.510 $\chi^2$/NDF:279467.4/20

Left: 8768.151+/-1.046 $\chi^2$/NDF: 612426.8/43

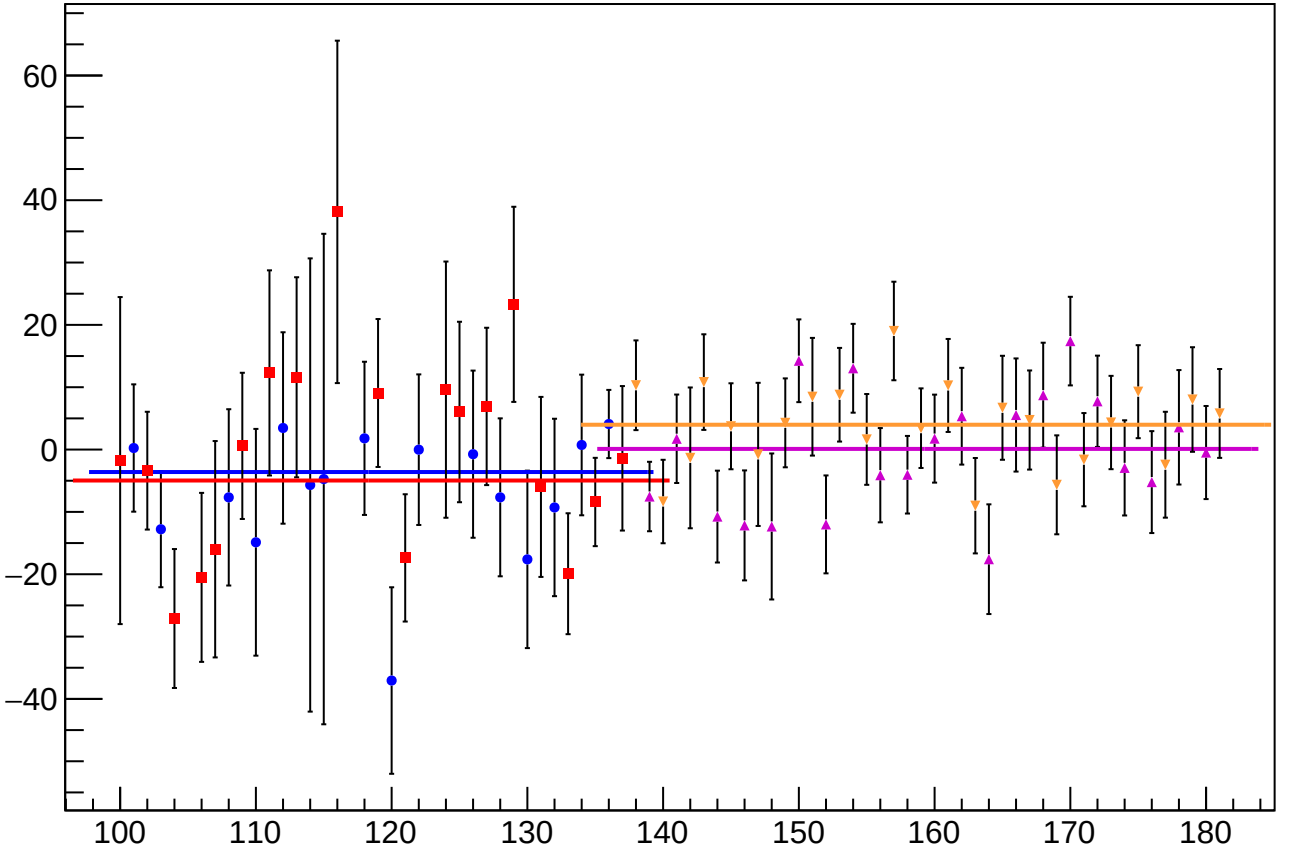
Right: 13925.139+/-2.638 $\chi^2$/NDF: 1326477.7/34

In: 9496.393+/-1.396 $\chi^2$/NDF:2410237.0/36

Out: 9443.090+/-1.356 $\chi^2$/NDF:2829648.0/41

All: 9468.960+/-0.973 $\chi^2$/NDF: 5240635.4/78

# diff_bpm4acY_mean vs Slug, Sign Corrected




Right In: -3.605+/-2.940 $\chi^2$/NDF: 10.5/15

Left Out: 3.982+/-1.610 $\chi^2$/NDF:16.8/22

Right Out: -4.965+/-2.855 $\chi^2$/NDF: 21.4/18

Left In: 0.104+/-1.647 $\chi^2$/NDF:31.8/20

Left: 2.086+/-1.151 $\chi^2$/NDF: 51.5/43

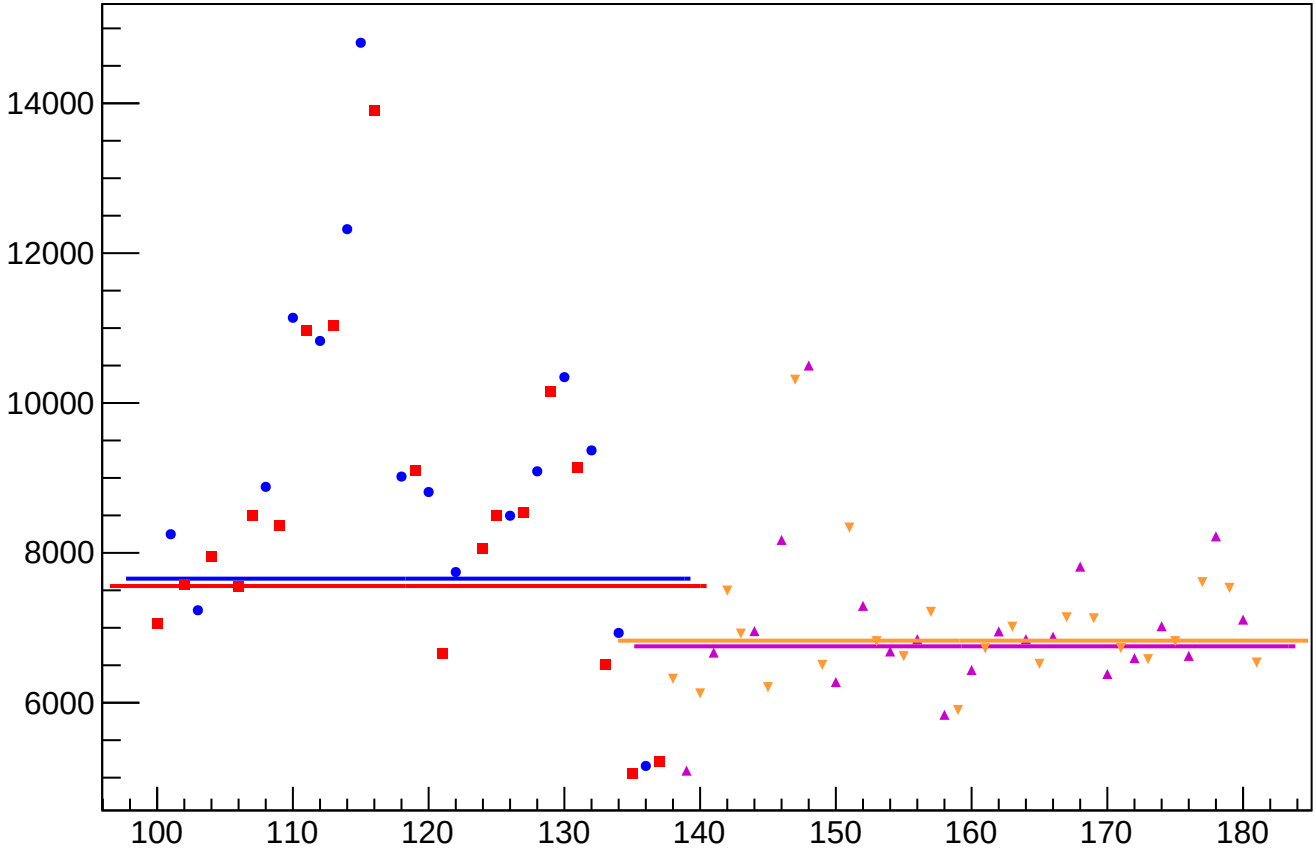
Right: -4.305+/-2.048 $\chi^2$/NDF: 32.0/34

In: -0.782+/-1.437 $\chi^2$/NDF:43.5/36

Out: 1.823+/-1.403 $\chi^2$/NDF:45.7/41

All: 0.552+/-1.004 $\chi^2$/NDF: 90.9/78

# diff_bpm4acY_rms vs Slug, Sign Corrected




Right In: 7655.851+/-2.079 $\chi^2$/NDF: 879769.7/15

Left Out: 6828.563+/-1.139 $\chi^2$/NDF:390254.7/22

Right Out: 7557.497+/-2.019 $\chi^2$/NDF: 809860.3/18

Left In: 6752.694+/-1.164 $\chi^2$/NDF:602150.9/20

Left: 6791.477+/-0.814 $\chi^2$/NDF: 994576.0/43

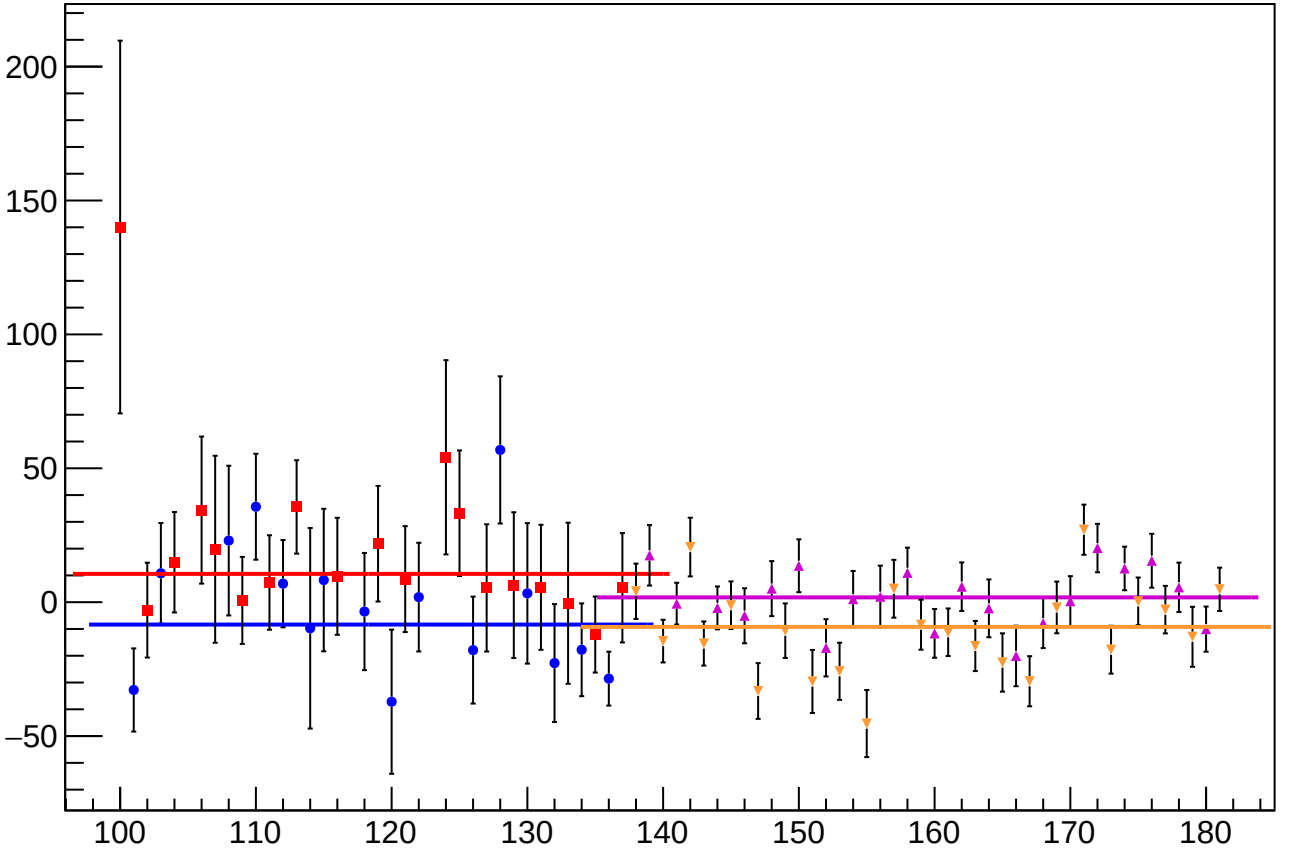
Right: 7605.240+/-1.448 $\chi^2$/NDF: 1690781.9/34

In: 6968.361+/-1.016 $\chi^2$/NDF:1625595.6/36

Out: 7004.436+/-0.992 $\chi^2$/NDF:1299004.3/41

All: 6986.831+/-0.710 $\chi^2$/NDF: 2925245.5/78

# diff_bpm4ecX_mean vs Slug, Sign Corrected




Right In: -8.352+/-4.814 $\chi^2$/NDF: 23.2/15

Left Out: -9.232+/-2.003 $\chi^2$/NDF:59.8/22

Right Out: 10.573+/-4.911 $\chi^2$/NDF: 12.9/18

Left In: 1.799+/-2.075 $\chi^2$/NDF:25.5/20

Left: -3.913+/-1.441 $\chi^2$/NDF: 100.0/43

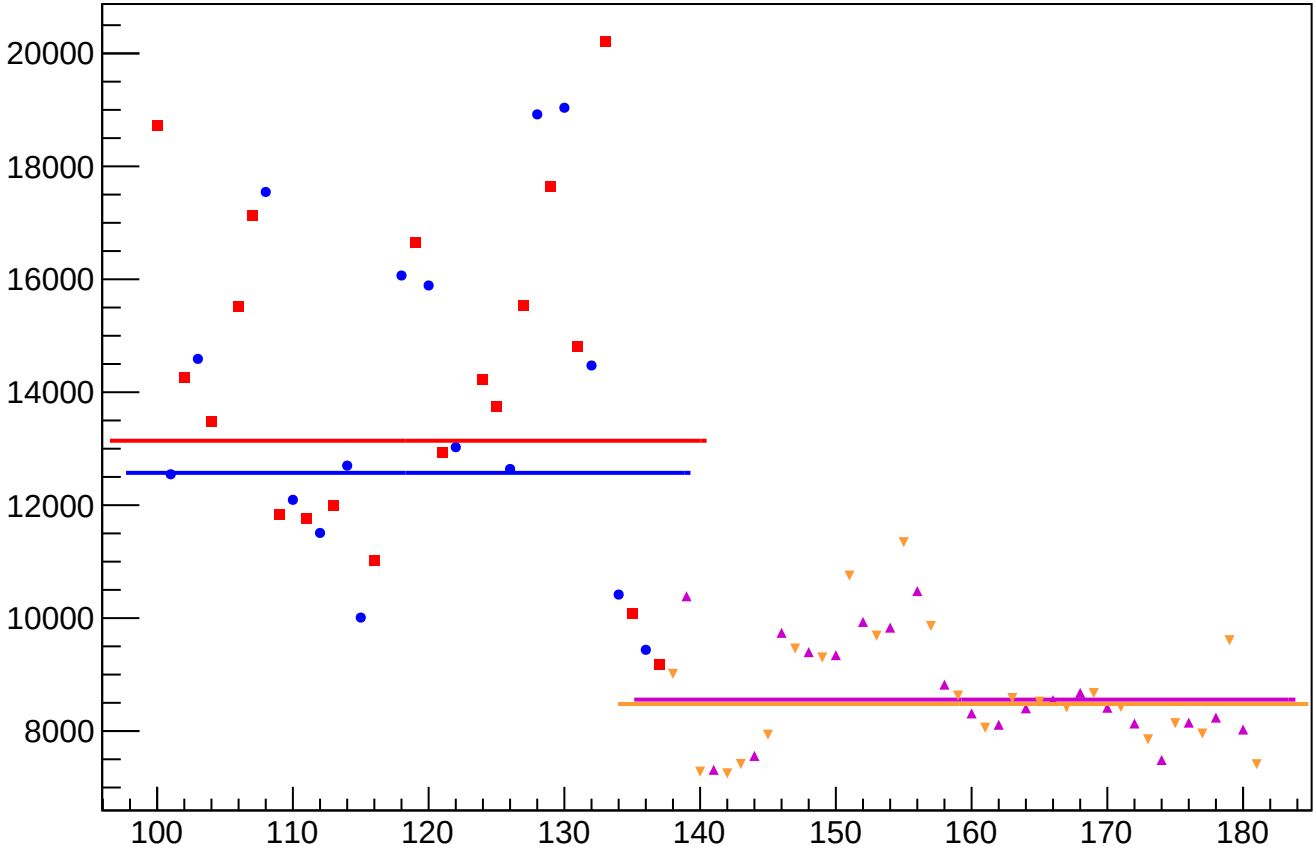
Right: 0.922+/-3.438 $\chi^2$/NDF: 43.7/34

In: 0.208+/-1.906 $\chi^2$/NDF:52.5/36

Out: -6.407+/-1.854 $\chi^2$/NDF:86.7/41

All: -3.190+/-1.329 $\chi^2$/NDF: 145.4/78

# diff_bpm4ecX_rms vs Slug, Sign Corrected




Right In: 12572.586+/-3.404 $\chi^2$/NDF: 665026.8/15

Left Out: 8479.341+/-1.416 $\chi^2$/NDF:465944.5/22

Right Out: 13141.218+/-3.473 $\chi^2$/NDF: 534726.5/18

Left In: 8556.910+/-1.468 $\chi^2$/NDF:365854.7/20

Left: 8516.743+/-1.019 $\chi^2$/NDF: 833245.9/43

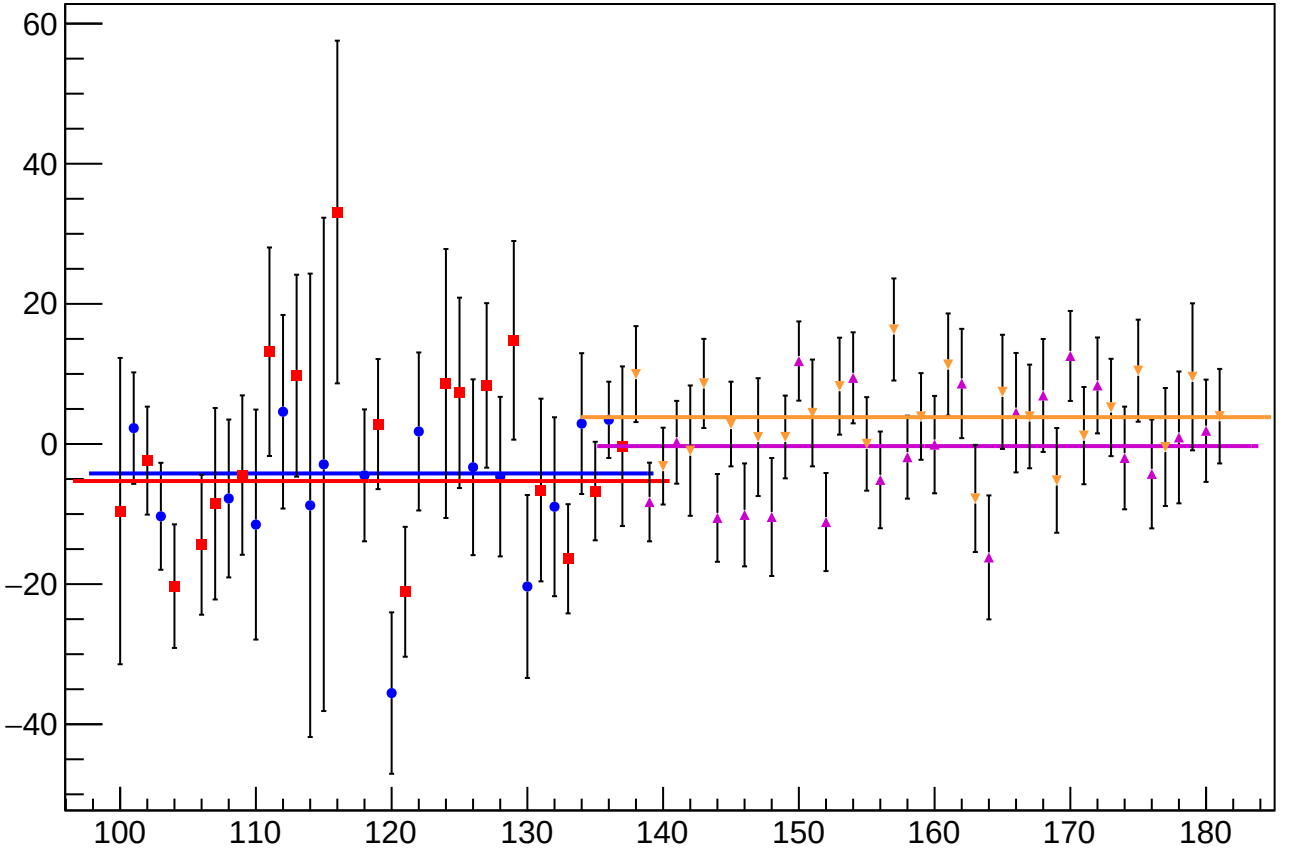
Right: 12851.222+/-2.431 $\chi^2$/NDF: 1213428.5/34

In: 9186.386+/-1.348 $\chi^2$/NDF:2204521.8/36

Out: 9144.142+/-1.311 $\chi^2$/NDF:2545972.7/41

All: 9164.687+/-0.940 $\chi^2$/NDF: 4750999.2/78

# diff_bpm4ecY_mean vs Slug, Sign Corrected




Right In: -4.204+/-2.600 $\chi^2$/NDF: 13.9/15

Left Out: 3.833+/-1.476 $\chi^2$/NDF:13.9/22

Right Out: -5.288+/-2.502 $\chi^2$/NDF: 19.7/18

Left In: -0.301+/-1.519 $\chi^2$/NDF:29.4/20

Left: 1.826+/-1.058 $\chi^2$/NDF: 47.2/43

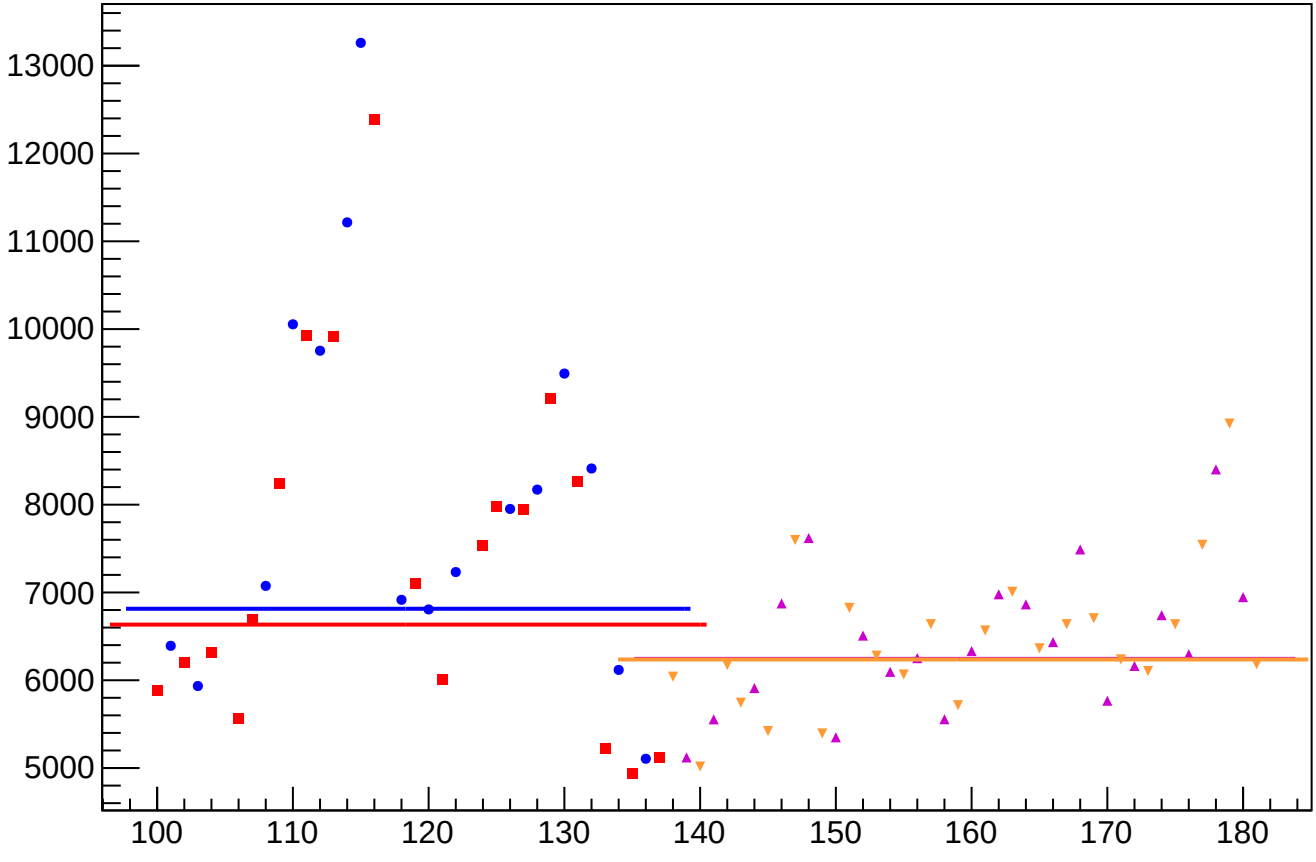
Right: -4.767+/-1.803 $\chi^2$/NDF: 33.7/34

In: -1.294+/-1.312 $\chi^2$/NDF:45.0/36

Out: 1.479+/-1.271 $\chi^2$/NDF:43.5/41

All: 0.136+/-0.913 $\chi^2$/NDF: 90.8/78

# diff_bpm4ecY_rms vs Slug, Sign Corrected




Right In: 6814.282+/-1.839 $\chi^2$/NDF: 674093.4/15

Left Out: 6236.284+/-1.043 $\chi^2$/NDF:500696.8/22

Right Out: 6633.695+/-1.769 $\chi^2$/NDF: 763347.6/18

Left In: 6243.450+/-1.074 $\chi^2$/NDF:483050.7/20

Left: 6239.763+/-0.748 $\chi^2$/NDF: 983770.4/43

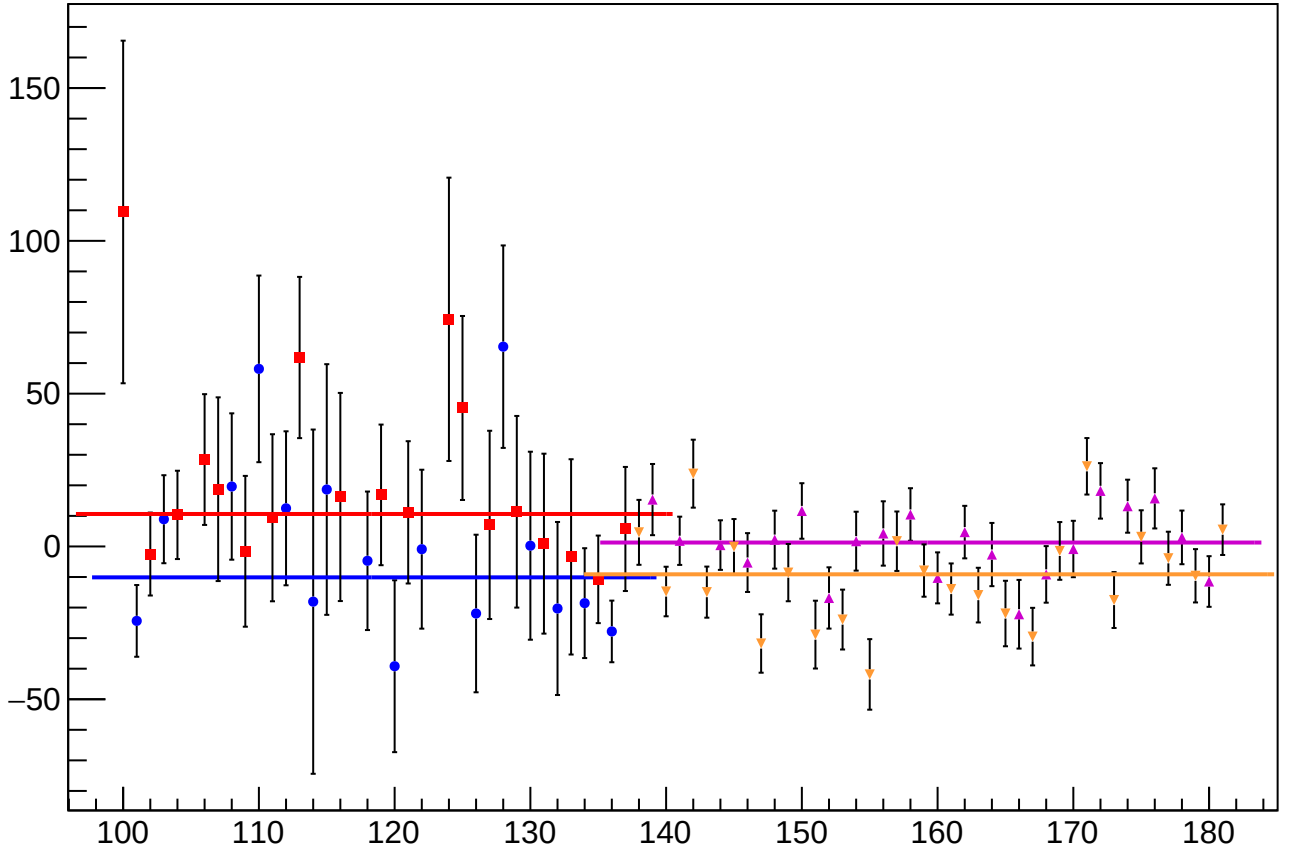
Right: 6720.509+/-1.275 $\chi^2$/NDF: 1442449.8/34

In: 6388.704+/-0.928 $\chi^2$/NDF:1228998.5/36

Out: 6338.840+/-0.899 $\chi^2$/NDF:1301481.4/41

All: 6362.986+/-0.645 $\chi^2$/NDF: 2531970.6/78

# diff_bpm1X_mean vs Slug, Sign Corrected




Right In: -10.113+/-5.017 $\chi^2$/NDF: 21.3/15

Left Out: -9.114+/-1.935 $\chi^2$/NDF:61.4/22

Right Out: 10.624+/-5.277 $\chi^2$/NDF: 14.7/18

Left In: 1.280+/-2.009 $\chi^2$/NDF:25.5/20

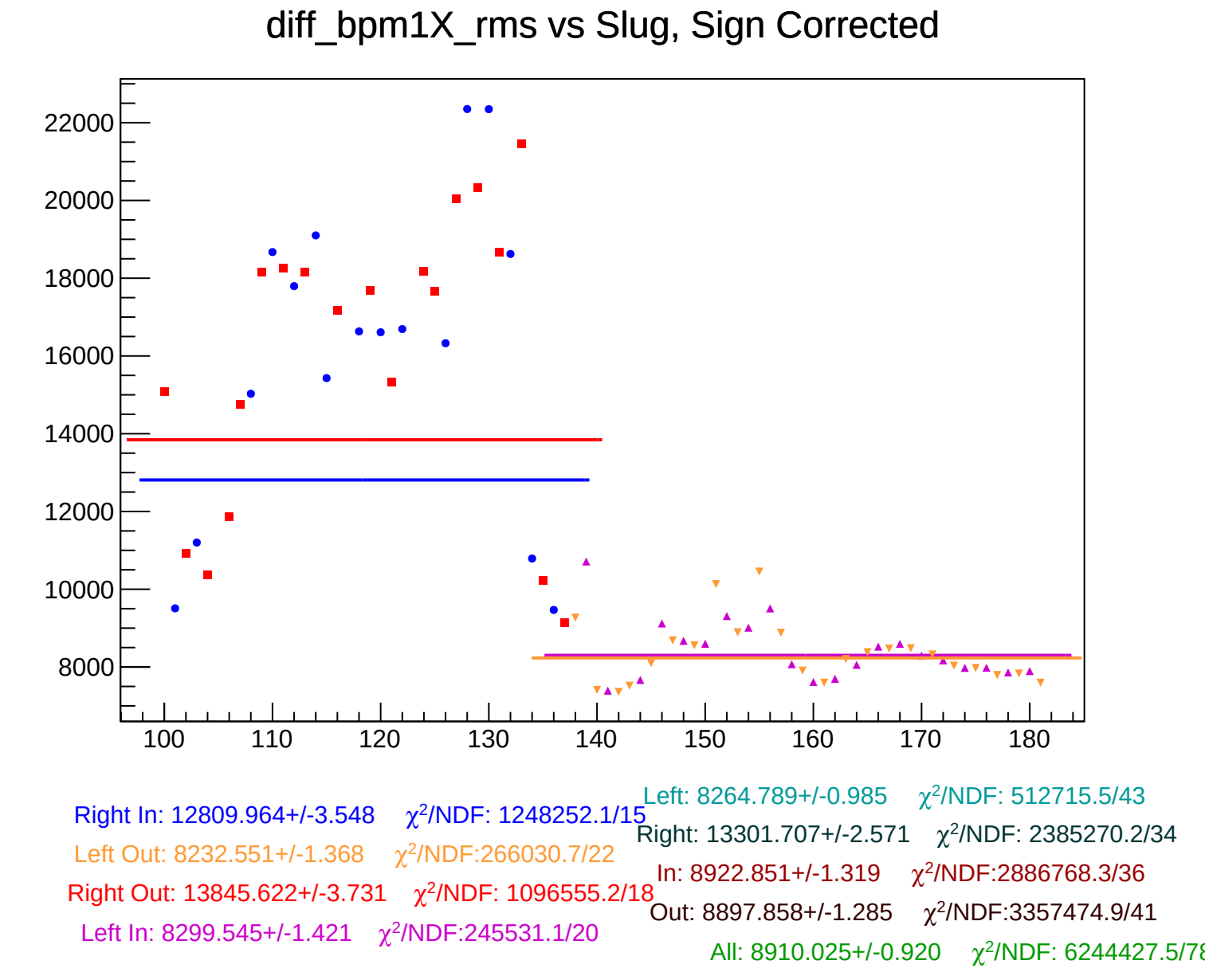
Left: -4.112+/-1.394 $\chi^2$/NDF: 100.8/43

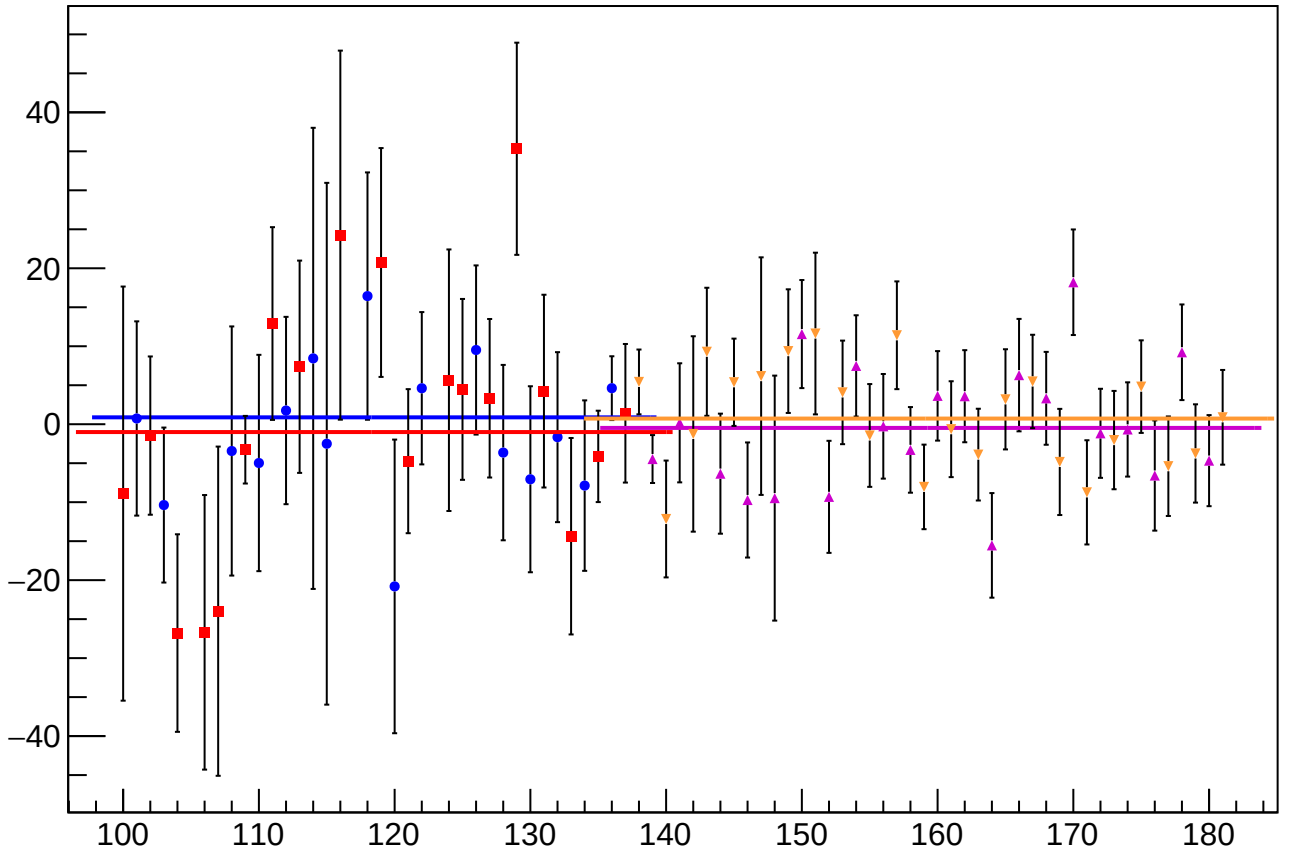
Right: -0.267+/-3.636 $\chi^2$/NDF: 44.1/34

In: -0.294+/-1.865 $\chi^2$/NDF:51.2/36

Out: -6.775+/-1.817 $\chi^2$/NDF:88.5/41

All: -3.620+/-1.301 $\chi^2$/NDF: 145.9/78


diff_bpm1X_rms vs Slug, Sign Corrected
22000
20000
18000
16000
14000
12000
10000
8000
100
110
120
130
140
150
160
170
180
Right In: 12809.964+/-3.548 χ²/NDF: 1248252.1/15
Left Out: 8232.551+/-1.368 χ²/NDF:266030.7/22
Right Out: 13845.622+/-3.731 χ²/NDF: 1096555.2/18
Left In: 8299.545+/-1.421 χ²/NDF:245531.1/20
Left: 8264.789+/-0.985 χ²/NDF: 512715.5/43
Right: 13301.707+/-2.571 χ²/NDF: 2385270.2/34
In: 8922.851+/-1.319 χ²/NDF:2886768.3/36
Out: 8897.858+/-1.285 χ²/NDF:3357474.9/41
All: 8910.025+/-0.920 χ²/NDF: 6244427.5/78




Right In: 0.882+/-2.566 $\chi^2$/NDF: 6.8/15

Left Out: 0.725+/-1.360 $\chi^2$/NDF:20.0/22

Right Out: -1.006+/-2.314 $\chi^2$/NDF: 22.3/18

Left In: -0.475+/-1.329 $\chi^2$/NDF:29.2/20

Left: 0.111+/-0.951 $\chi^2$/NDF: 49.6/43

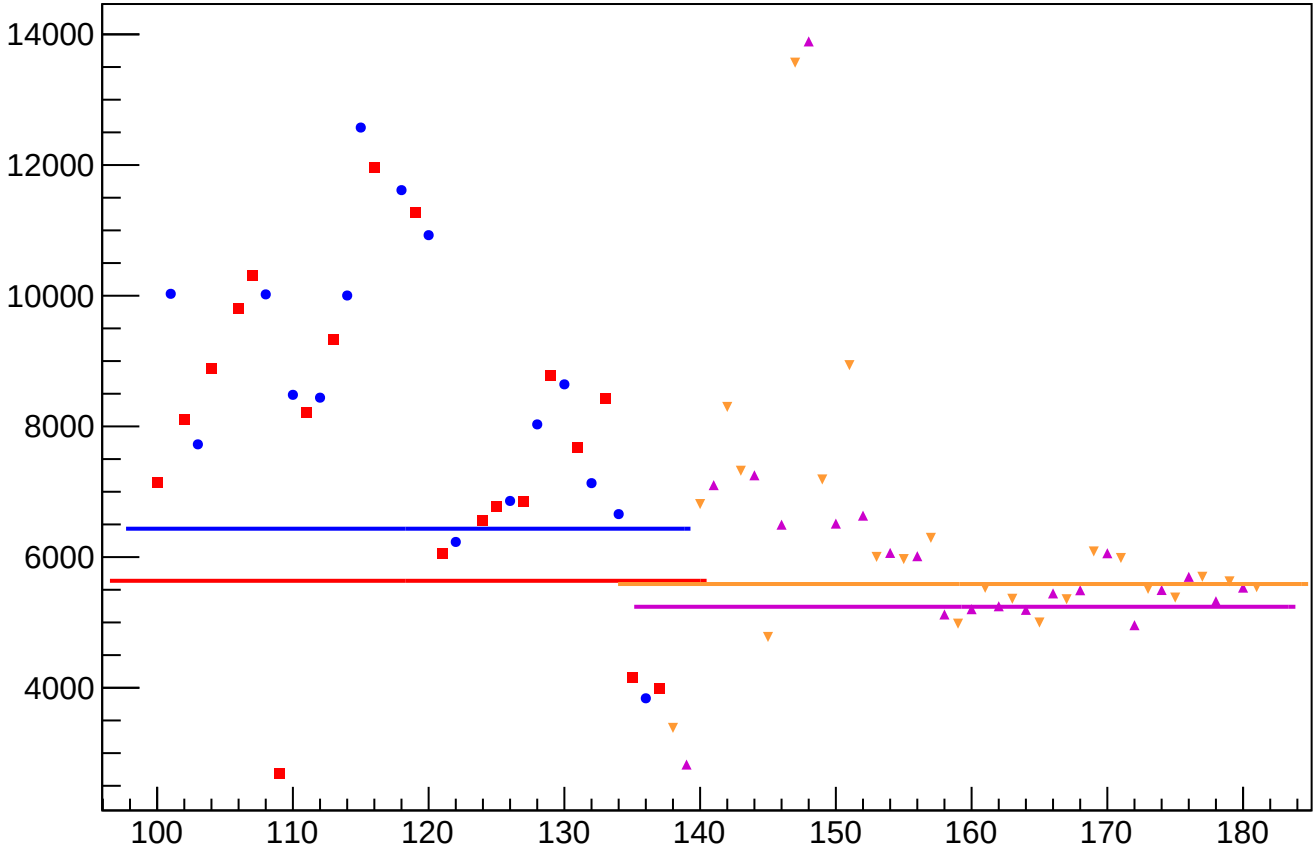
Right: -0.159+/-1.718 $\chi^2$/NDF: 29.4/34

In: -0.188+/-1.180 $\chi^2$/NDF:36.2/36

Out: 0.280+/-1.172 $\chi^2$/NDF:42.8/41

All: 0.048+/-0.832 $\chi^2$/NDF: 79.1/78

# diff_bpm1Y_rms vs Slug, Sign Corrected




Right In: 6434.559+/-1.814 $\chi^2$/NDF: 1750609.4/15

Left Out: 5588.139+/-0.962 $\chi^2$/NDF:1782944.6/22

Right Out: 5637.344+/-1.636 $\chi^2$/NDF: 2580013.6/18

Left In: 5239.924+/-0.940 $\chi^2$/NDF:2414743.3/20

Left: 5410.051+/-0.672 $\chi^2$/NDF: 4264755.9/43

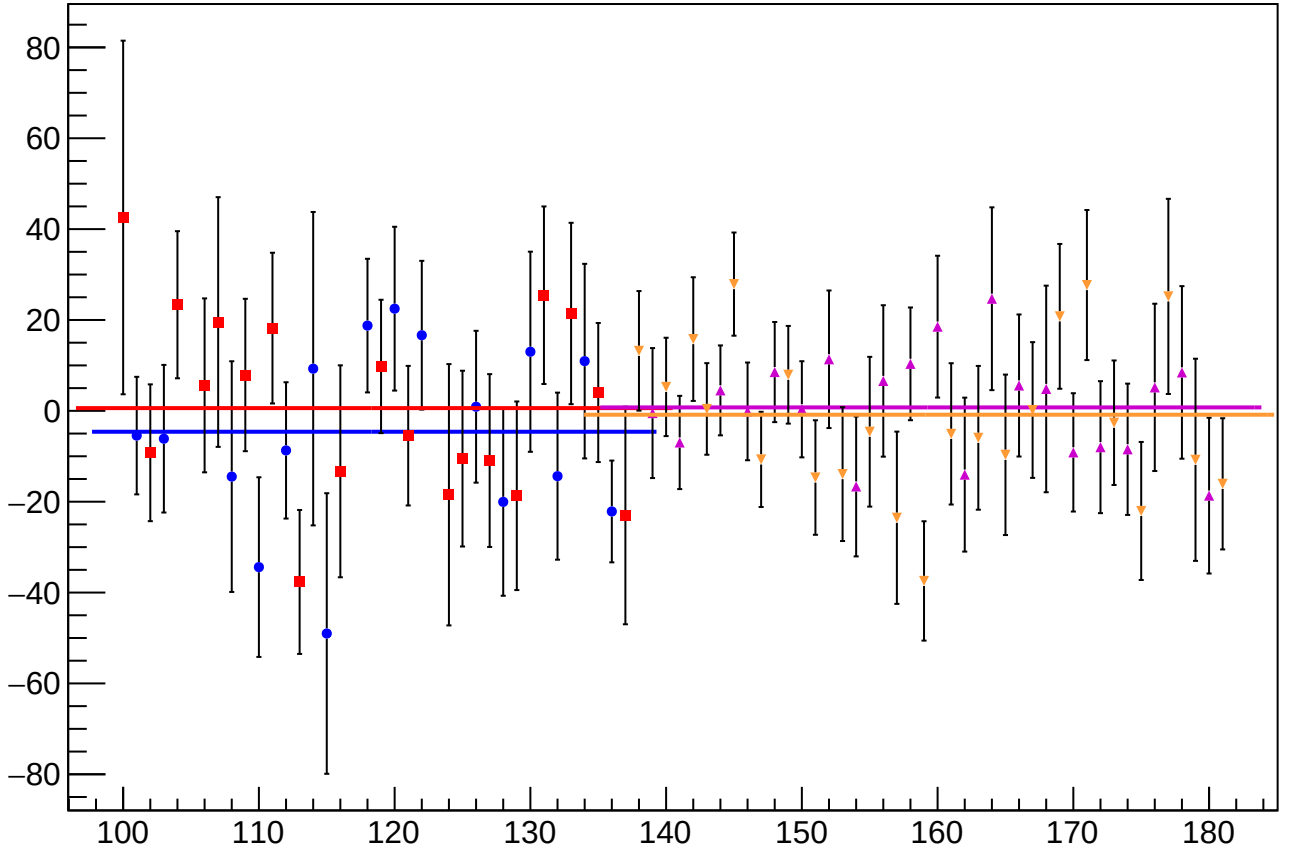
Right: 5994.862+/-1.215 $\chi^2$/NDF: 4437091.5/34

In: 5492.630+/-0.835 $\chi^2$/NDF:4507131.7/36

Out: 5600.771+/-0.829 $\chi^2$/NDF:4363630.4/41

All: 5547.060+/-0.588 $\chi^2$/NDF: 8879213.7/78

# diff_bpm11X_mean vs Slug, Sign Corrected




Right In: -4.602+/-4.355 $\chi^2$/NDF: 15.8/15

Left Out: -0.855+/-2.883 $\chi^2$/NDF:32.2/22

Right Out: 0.600+/-4.266 $\chi^2$/NDF: 17.9/18

Left In: 0.757+/-3.019 $\chi^2$/NDF:10.2/20

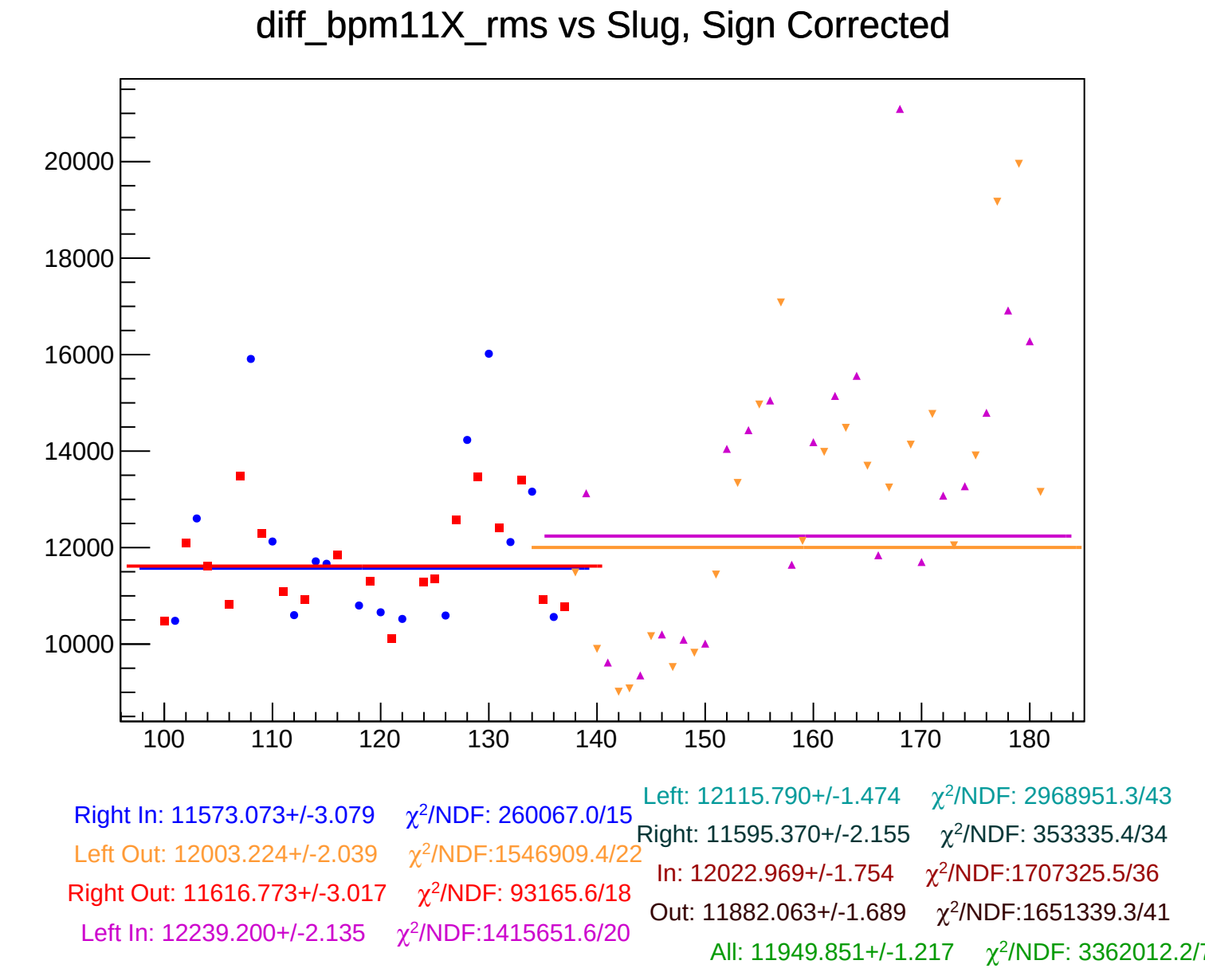
Left: -0.086+/-2.085 $\chi^2$/NDF: 42.5/43

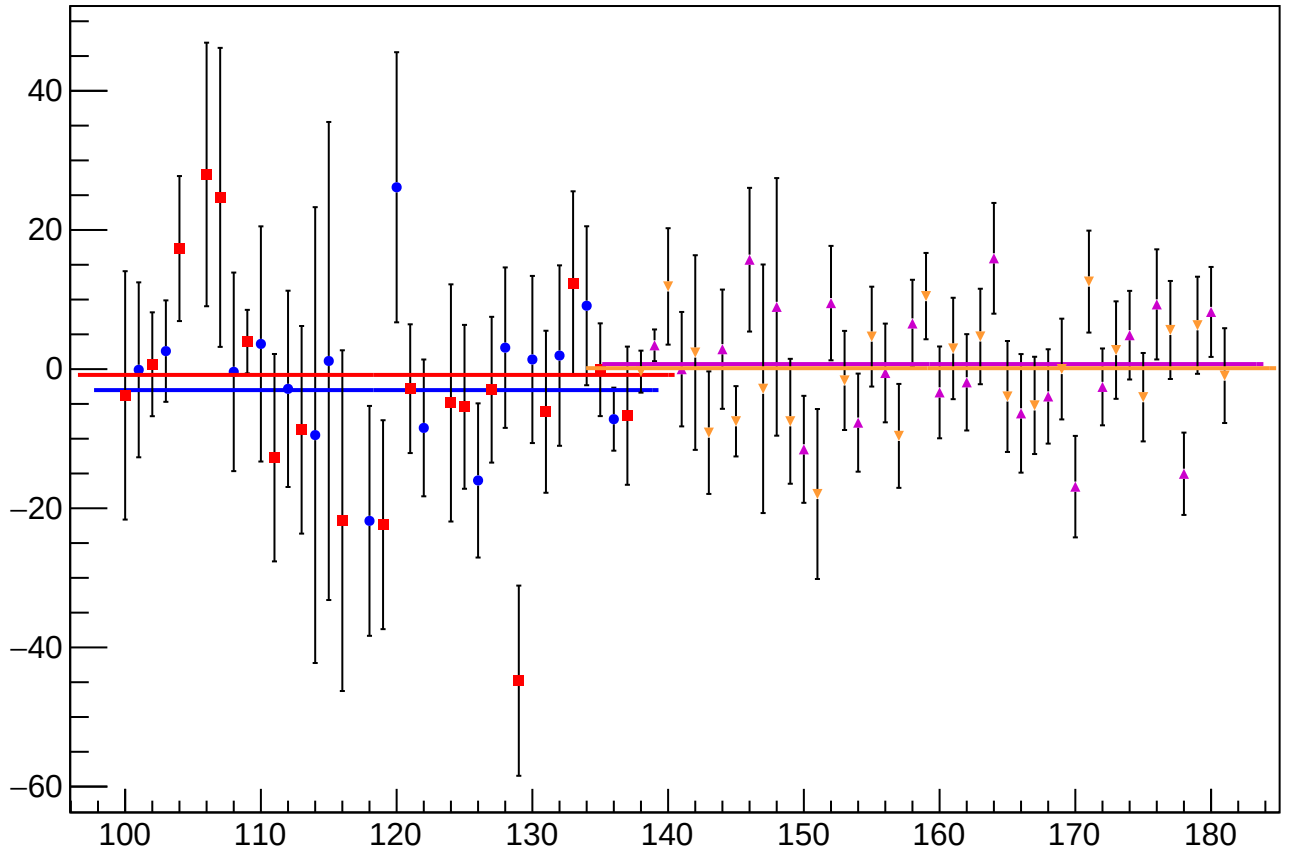
Right: -1.948+/-3.048 $\chi^2$/NDF: 34.4/34

In: -0.982+/-2.481 $\chi^2$/NDF:27.0/36

Out: -0.399+/-2.389 $\chi^2$/NDF:50.1/41

All: -0.680+/-1.721 $\chi^2$/NDF: 77.1/78


diff_bpm11X_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
100
110
120
130
140
150
160
170
180
Right In: 11573.073+/-3.079 χ²/NDF: 260067.0/15
Left Out: 12003.224+/-2.039 χ²/NDF:1546909.4/22
Right Out: 11616.773+/-3.017 χ²/NDF: 93165.6/18
Left In: 12239.200+/-2.135 χ²/NDF:1415651.6/20
Left: 12115.790+/-1.474 χ²/NDF: 2968951.3/43
Right: 11595.370+/-2.155 χ²/NDF: 353335.4/34
In: 12022.969+/-1.754 χ²/NDF:1707325.5/36
Out: 11882.063+/-1.689 χ²/NDF:1651339.3/41
All: 11949.851+/-1.217 χ²/NDF: 3362012.2/7




Right In: -3.014+/-2.654 $\chi^2$/NDF: 8.7/15

Left Out: 0.135+/-1.403 $\chi^2$/NDF:19.6/22

Right Out: -0.831+/-2.352 $\chi^2$/NDF: 23.8/18

Left In: 0.726+/-1.325 $\chi^2$/NDF:31.3/20

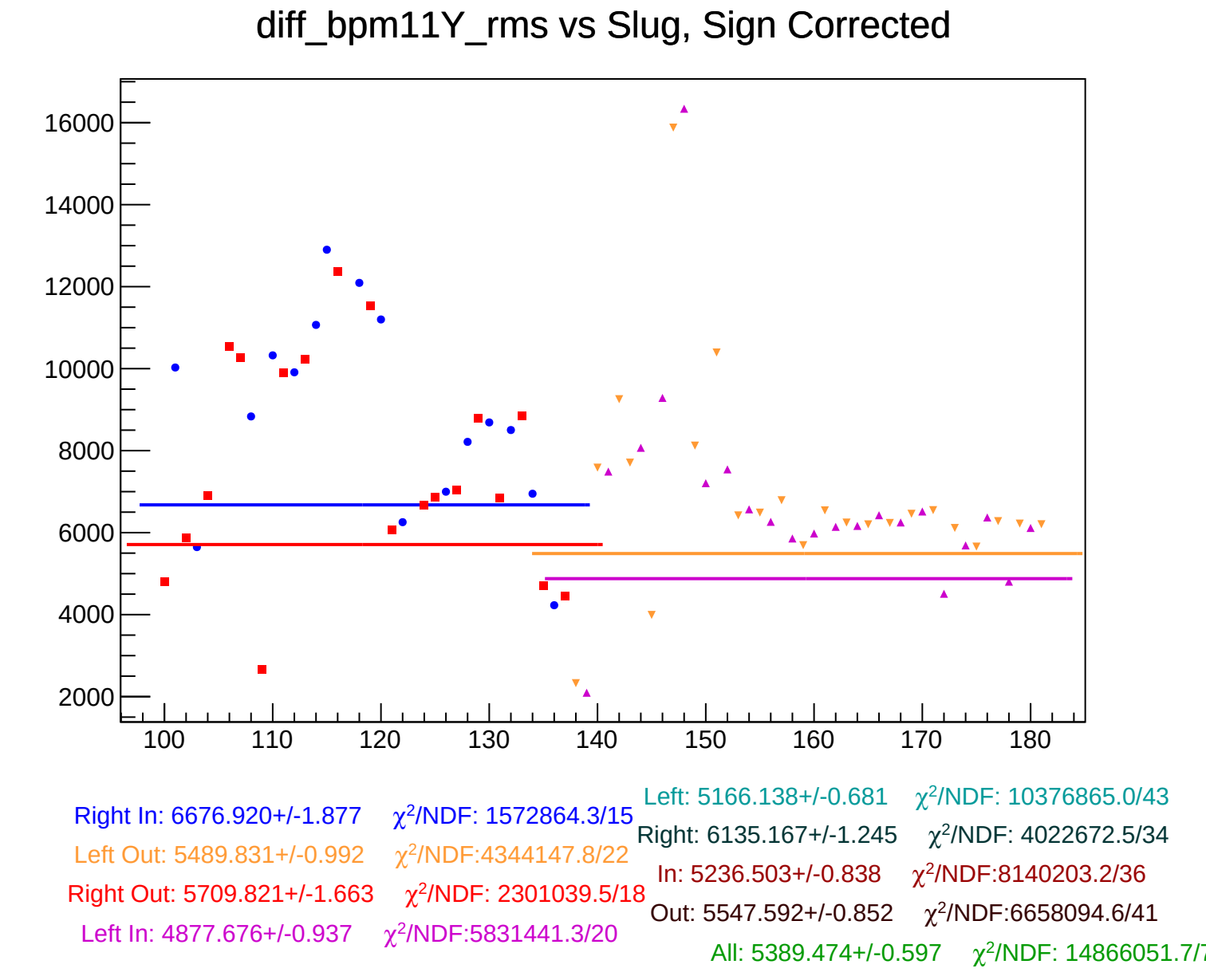
Left: 0.448+/-0.963 $\chi^2$/NDF: 51.0/43

Right: -1.791+/-1.760 $\chi^2$/NDF: 32.9/34

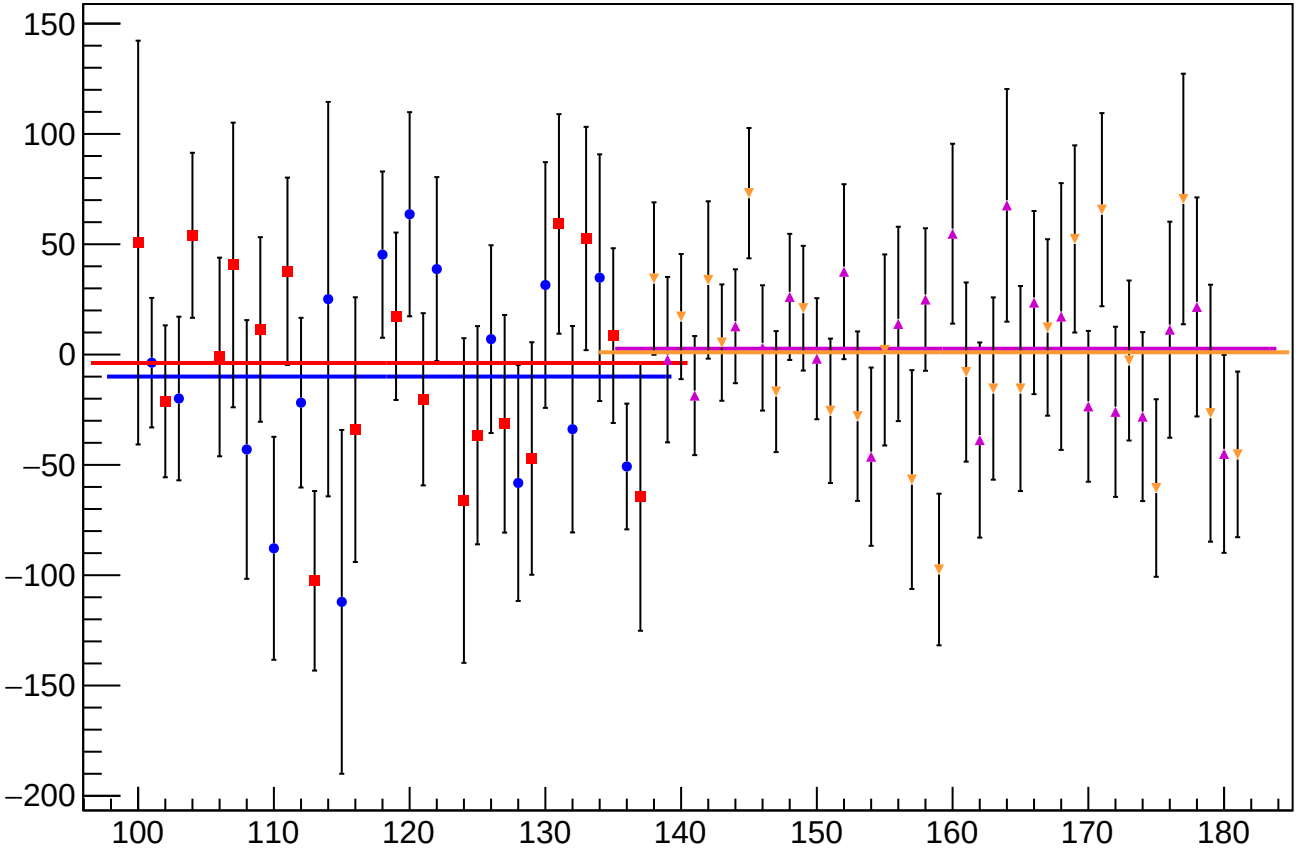
In: -0.020+/-1.185 $\chi^2$/NDF:41.6/36

Out: -0.119+/-1.205 $\chi^2$/NDF:43.6/41

All: -0.069+/-0.845 $\chi^2$/NDF: 85.1/78


diff_bpm11Y_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
2000
100
110
120
130
140
150
160
170
180
Right In: 6676.920+/-1.877 χ²/NDF: 1572864.3/15
Left Out: 5489.831+/-0.992 χ²/NDF:4344147.8/22
Right Out: 5709.821+/-1.663 χ²/NDF: 2301039.5/18
Left In: 4877.676+/-0.937 χ²/NDF:5831441.3/20
Left: 5166.138+/-0.681 χ²/NDF: 10376865.0/43
Right: 6135.167+/-1.245 χ²/NDF: 4022672.5/34
In: 5236.503+/-0.838 χ²/NDF:8140203.2/36
Out: 5547.592+/-0.852 χ²/NDF:6658094.6/41
All: 5389.474+/-0.597 χ²/NDF: 14866051.7/7

# diff_bpm12X_mean vs Slug, Sign Corrected




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 1.032+/-7.563 $\chi^2$/NDF:29.5/22

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: 2.647+/-7.916 $\chi^2$/NDF:11.7/20

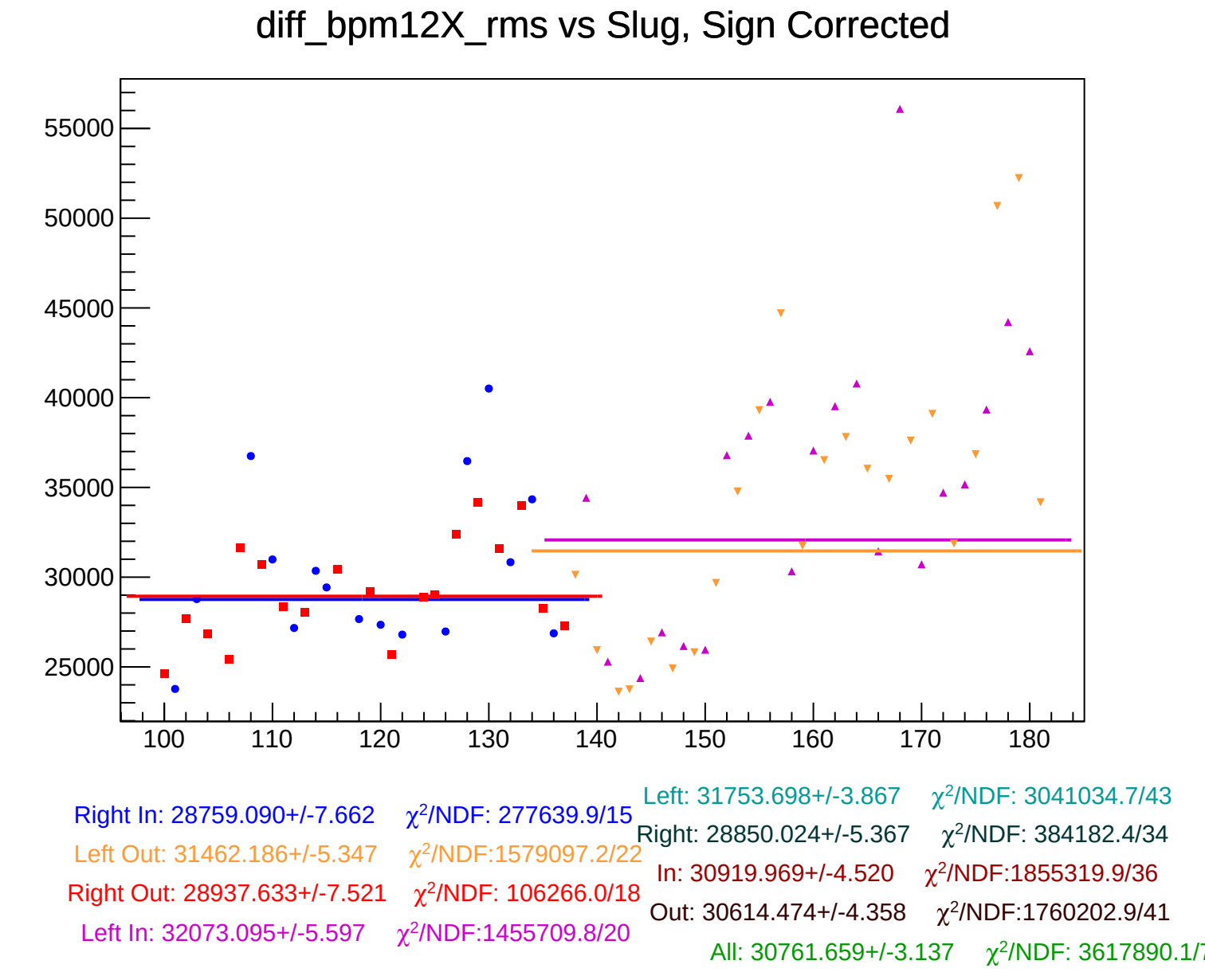
Left: 1.803+/-5.468 $\chi^2$/NDF: 41.2/43

Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

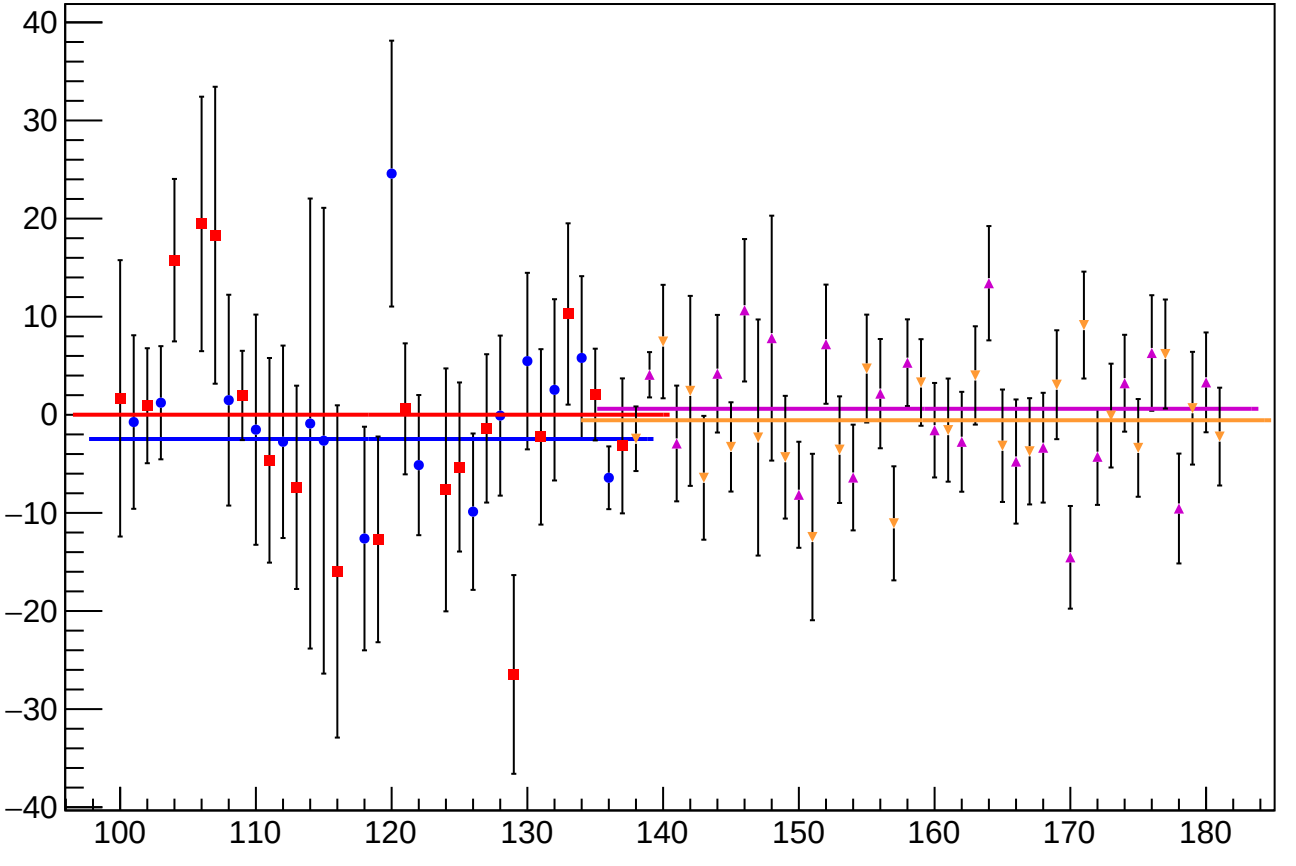
In: -1.743+/-6.392 $\chi^2$/NDF:27.9/36

Out: -0.595+/-6.163 $\chi^2$/NDF:46.9/41

All: -1.148+/-4.437 $\chi^2$/NDF: 74.8/78


diff_bpm12X_rms vs Slug, Sign Corrected
55000
50000
45000
40000
35000
30000
25000
100
110
120
130
140
150
160
170
180
Right In: 28759.090+/-7.662 χ²/NDF: 277639.9/15
Left Out: 31462.186+/-5.347 χ²/NDF:1579097.2/22
Right Out: 28937.633+/-7.521 χ²/NDF: 106266.0/18
Left In: 32073.095+/-5.597 χ²/NDF:1455709.8/20
Left: 31753.698+/-3.867 χ²/NDF: 3041034.7/43
Right: 28850.024+/-5.367 χ²/NDF: 384182.4/34
In: 30919.969+/-4.520 χ²/NDF:1855319.9/36
Out: 30614.474+/-4.358 χ²/NDF:1760202.9/41
All: 30761.659+/-3.137 χ²/NDF: 3617890.1/7

# diff_bpm12Y_mean vs Slug, Sign Corrected




Right In: -2.467+/-1.916 $\chi^2$/NDF: 10.0/15

Left Out: -0.556+/-1.128 $\chi^2$/NDF:18.1/22

Right Out: 0.009+/-1.828 $\chi^2$/NDF: 20.0/18

Left In: 0.612+/-1.094 $\chi^2$/NDF:32.8/20

Left: 0.046+/-0.785 $\chi^2$/NDF: 51.5/43

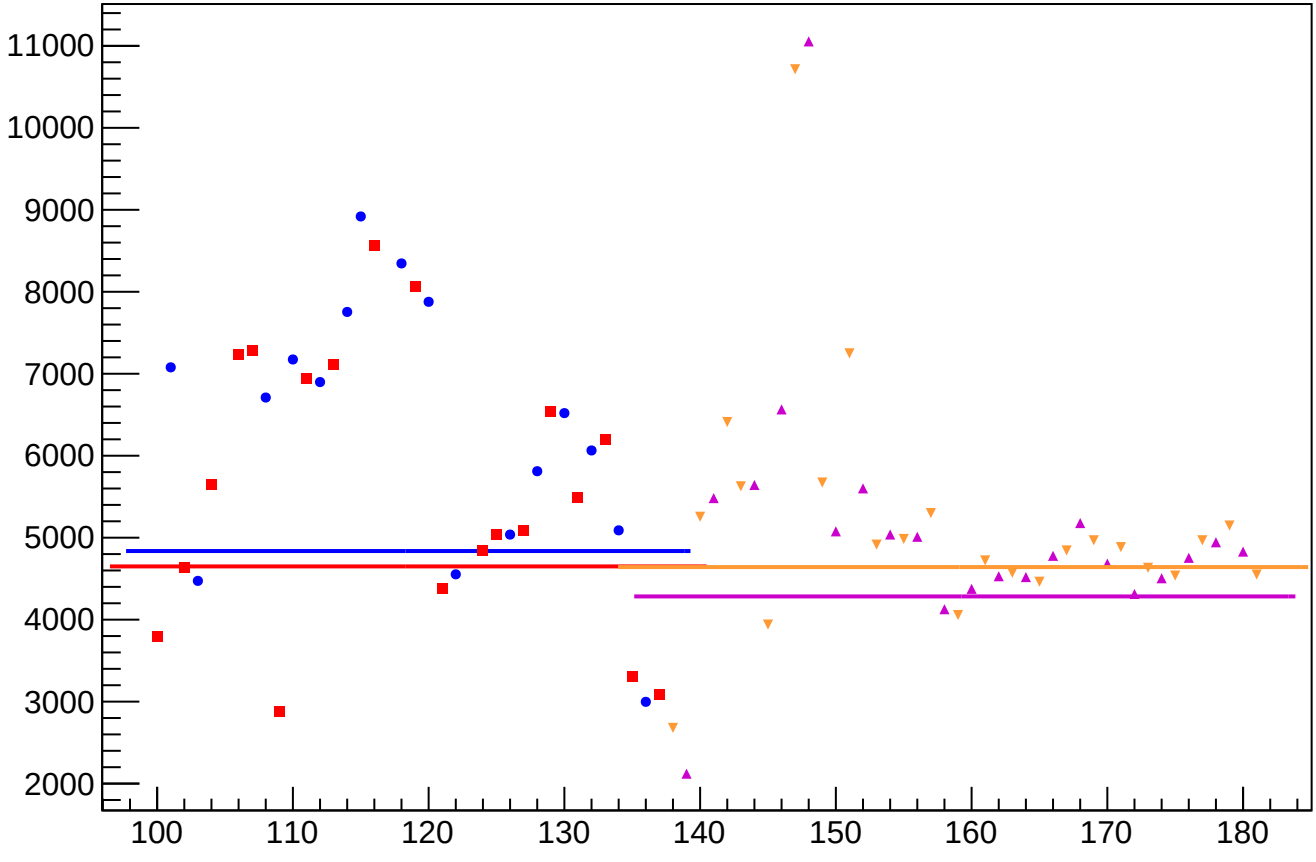
Right: -1.171+/-1.323 $\chi^2$/NDF: 30.9/34

In: -0.146+/-0.950 $\chi^2$/NDF:44.8/36

Out: -0.400+/-0.960 $\chi^2$/NDF:38.2/41

All: -0.272+/-0.675 $\chi^2$/NDF: 83.0/78

# diff_bpm12Y_rms vs Slug, Sign Corrected




Right In: 4837.176+/-1.355 $\chi^2$/NDF: 1547766.9/15

Left Out: 4641.510+/-0.798 $\chi^2$/NDF:1762606.6/22

Right Out: 4649.613+/-1.293 $\chi^2$/NDF: 1434548.7/18

Left In: 4283.452+/-0.774 $\chi^2$/NDF:3091019.7/20

Left: 4457.057+/-0.555 $\chi^2$/NDF: 4957460.5/43

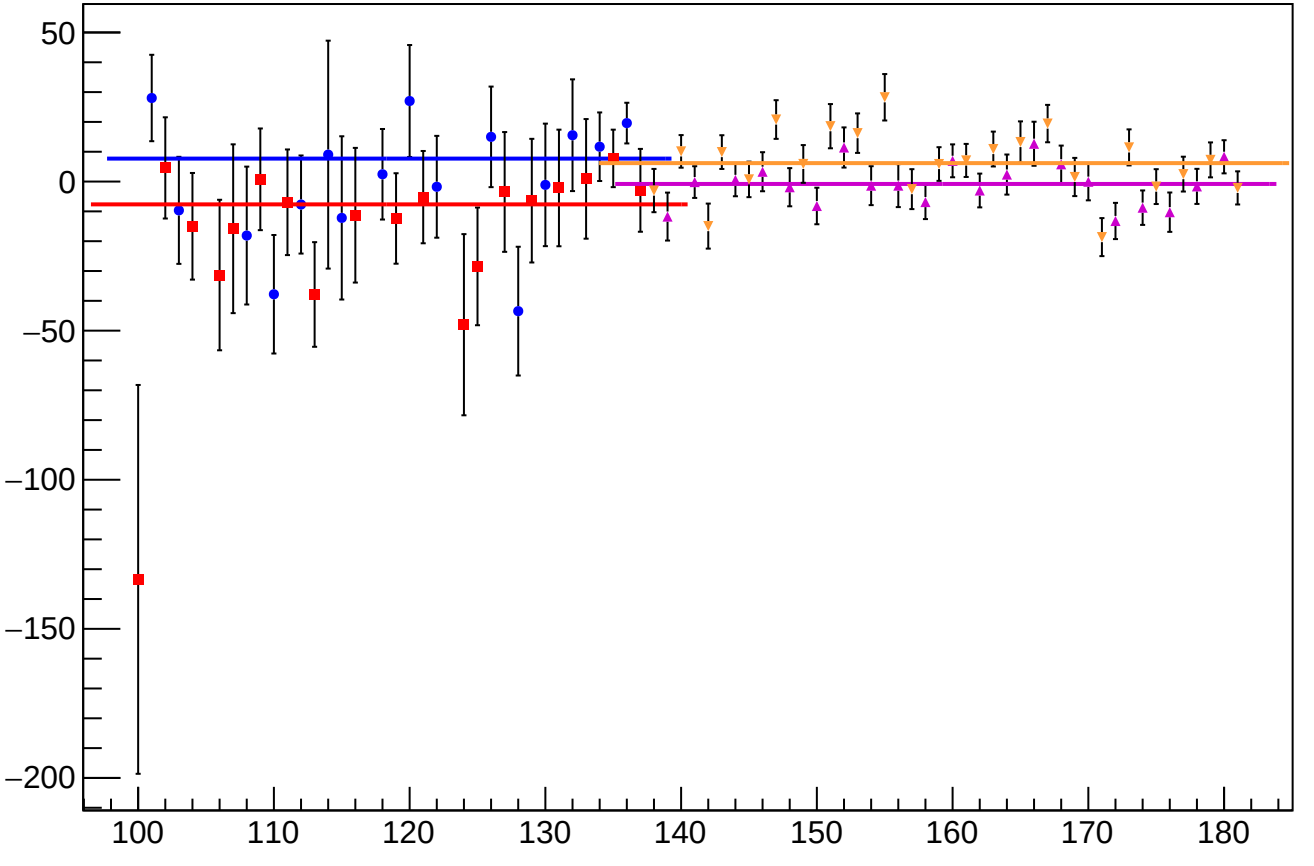
Right: 4739.013+/-0.935 $\chi^2$/NDF: 2992350.1/34

In: 4419.672+/-0.672 $\chi^2$/NDF:4764782.8/36

Out: 4643.744+/-0.679 $\chi^2$/NDF:3197183.7/41

All: 4530.563+/-0.477 $\chi^2$/NDF: 8017014.8/78

# diff_bpm16X_mean vs Slug, Sign Corrected




Right In: 7.699+/-3.820 $\chi^2$/NDF: 21.6/15

Left Out: 6.184+/-1.298 $\chi^2$/NDF:58.3/22

Right Out: -7.650+/-4.099 $\chi^2$/NDF: 14.6/18

Left In: -0.804+/-1.348 $\chi^2$/NDF:25.9/20

Left: 2.822+/-0.935 $\chi^2$/NDF: 98.1/43

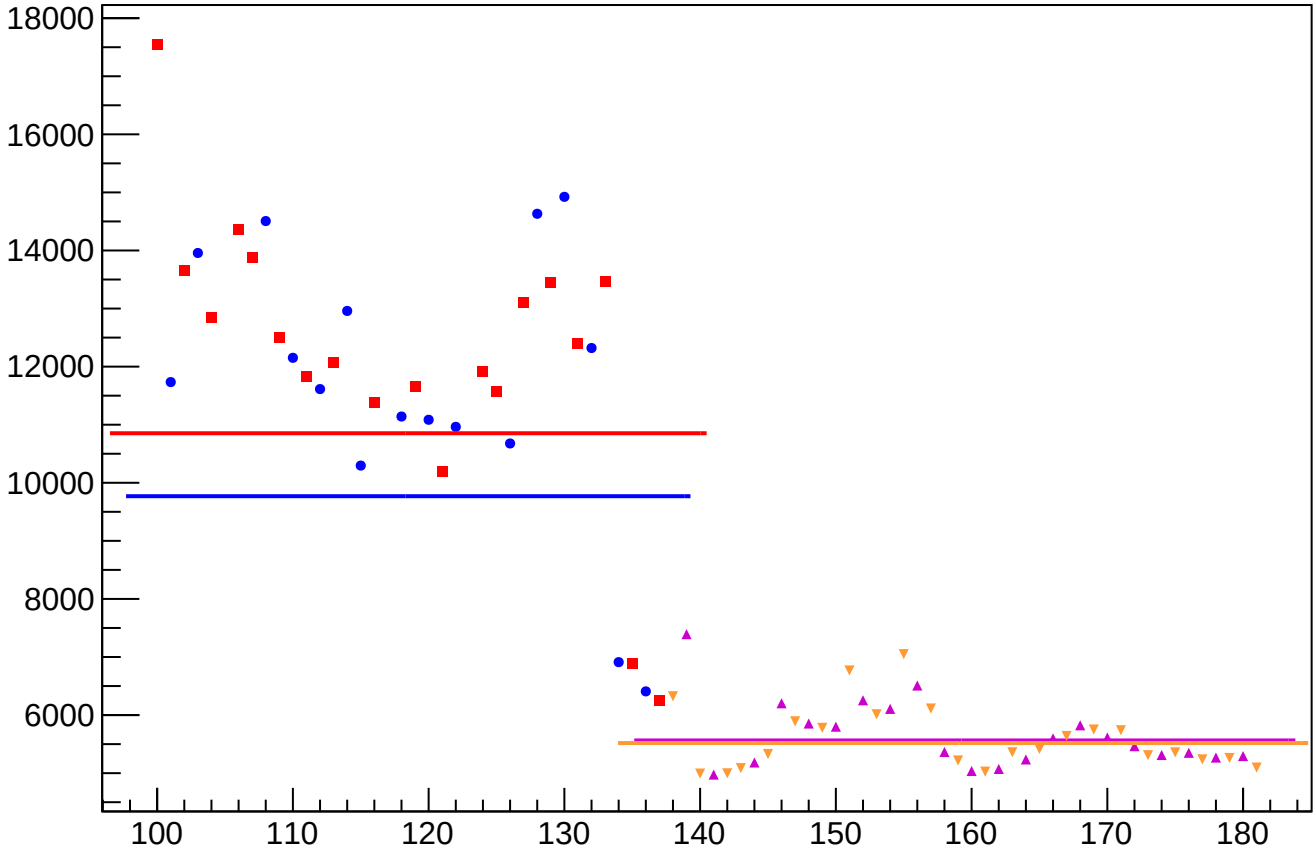
Right: 0.565+/-2.795 $\chi^2$/NDF: 43.7/34

In: 0.137+/-1.271 $\chi^2$/NDF:51.9/36

Out: 4.924+/-1.237 $\chi^2$/NDF:83.2/41

All: 2.595+/-0.886 $\chi^2$/NDF: 142.4/78

# diff_bpm16X_rms vs Slug, Sign Corrected




Right In: 9768.772+/-2.701 $\chi^2$/NDF: 1213694.6/15

Left Out: 5518.266+/-0.918 $\chi^2$/NDF:290618.4/22

Right Out: 10852.989+/-2.899 $\chi^2$/NDF: 874500.2/18

Left In: 5563.233+/-0.953 $\chi^2$/NDF:293417.2/20

Left: 5539.900+/-0.661 $\chi^2$/NDF: 585191.2/43

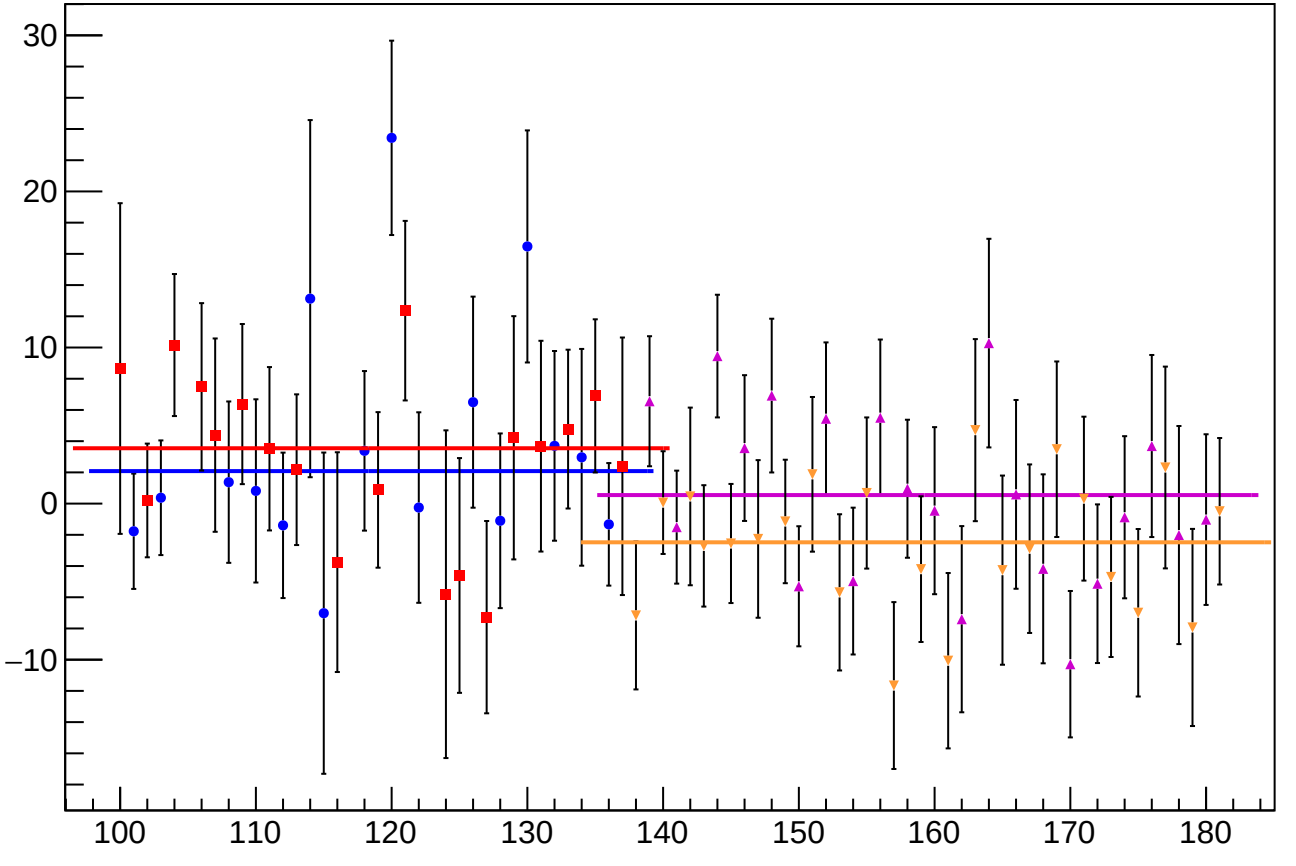
Right: 10272.667+/-1.976 $\chi^2$/NDF: 2163082.8/34

In: 6028.747+/-0.899 $\chi^2$/NDF:3663126.2/36

Out: 6004.156+/-0.875 $\chi^2$/NDF:4243881.8/41

All: 6016.121+/-0.627 $\chi^2$/NDF: 7907392.5/78

# diff_bpm16Y_mean vs Slug, Sign Corrected




Right In: 2.082+/-1.345 $\chi^2$/NDF: 21.0/15

Left Out: -2.480+/-1.017 $\chi^2$/NDF:13.9/22

Right Out: 3.546+/-1.304 $\chi^2$/NDF: 13.4/18

Left In: 0.547+/-1.068 $\chi^2$/NDF:27.0/20

Left: -1.042+/-0.736 $\chi^2$/NDF: 45.1/43

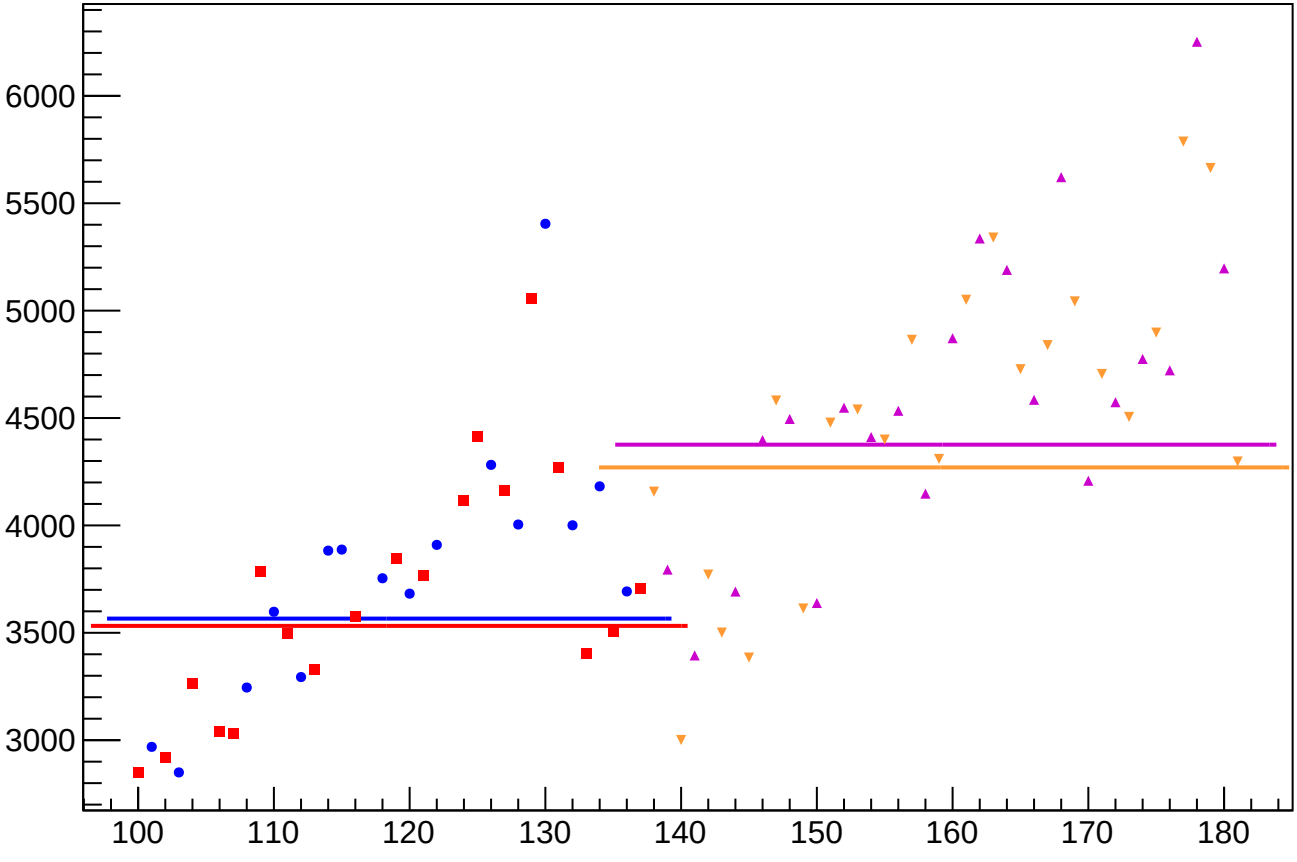
Right: 2.837+/-0.936 $\chi^2$/NDF: 35.0/34

In: 1.140+/-0.837 $\chi^2$/NDF:48.8/36

Out: -0.202+/-0.802 $\chi^2$/NDF:40.6/41

All: 0.441+/-0.579 $\chi^2$/NDF: 90.7/78

# diff_bpm16Y_rms vs Slug, Sign Corrected




Right In: 3566.150+/-0.951 $\chi^2$/NDF: 341105.5/15

Left Out: 4270.058+/-0.719 $\chi^2$/NDF:1028656.8/22

Right Out: 3532.189+/-0.922 $\chi^2$/NDF: 278693.0/18

Left In: 4375.941+/-0.755 $\chi^2$/NDF:730506.8/20

Left: 4320.369+/-0.521 $\chi^2$/NDF: 1769472.8/43

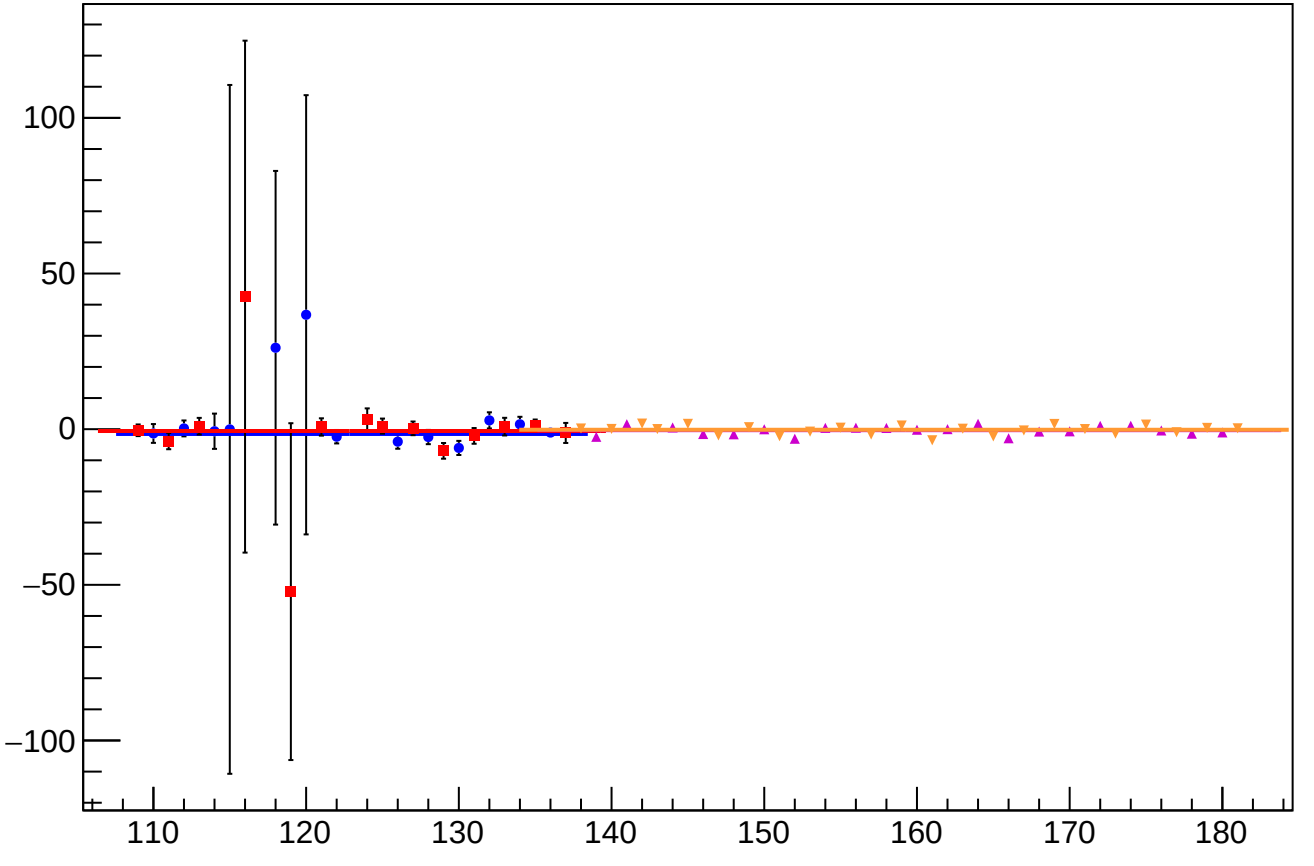
Right: 3548.642+/-0.662 $\chi^2$/NDF: 620455.5/34

In: 4062.732+/-0.592 $\chi^2$/NDF:1515985.6/36

Out: 3991.173+/-0.567 $\chi^2$/NDF:1705578.3/41

All: 4025.430+/-0.409 $\chi^2$/NDF: 3229190.4/78

# diff_bpm1p02bX_mean vs Slug, Sign Corrected




Right In: -1.536+/-0.733 $\chi^2$/NDF: 11.1/12

Left Out: -0.190+/-0.240 $\chi^2$/NDF:33.6/22

Right Out: -0.588+/-0.717 $\chi^2$/NDF: 12.7/13

Left In: -0.320+/-0.248 $\chi^2$/NDF:28.6/20

Left: -0.254+/-0.172 $\chi^2$/NDF: 62.4/43

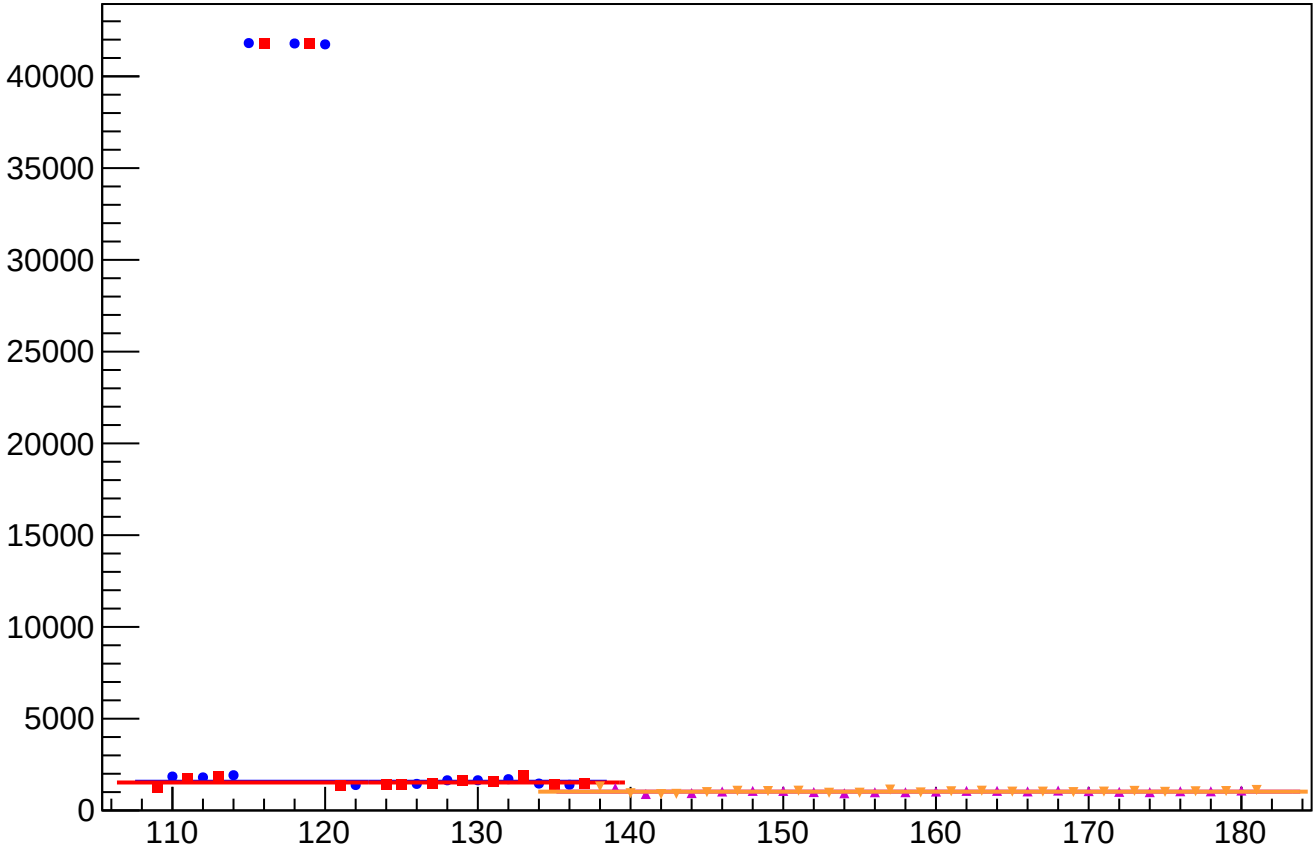
Right: -1.051+/-0.512 $\chi^2$/NDF: 24.6/26

In: -0.445+/-0.234 $\chi^2$/NDF:42.2/33

Out: -0.231+/-0.228 $\chi^2$/NDF:46.6/36

All: -0.335+/-0.163 $\chi^2$/NDF: 89.2/70

# diff_bpm1p02bX_rms vs Slug, Sign Corrected




Right In: 1564.307+/-0.518 $\chi^2$/NDF: 2016990.6/12

Left Out: 1024.377+/-0.170 $\chi^2$/NDF:195970.8/22

Right Out: 1523.678+/-0.507 $\chi^2$/NDF: 1739658.0/13

Left In: 1024.298+/-0.175 $\chi^2$/NDF:132584.5/20

Left: 1024.339+/-0.122 $\chi^2$/NDF: 328555.4/43

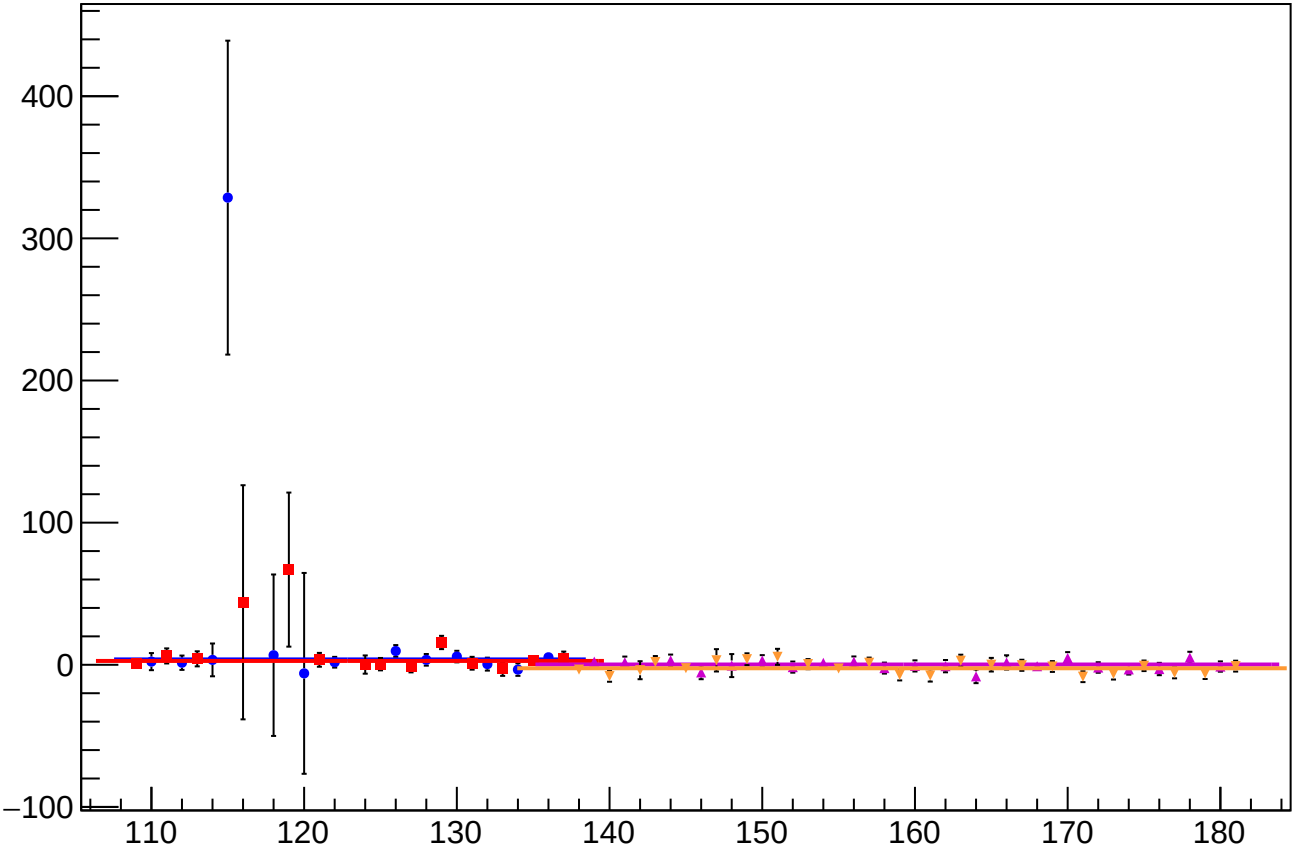
Right: 1543.555+/-0.362 $\chi^2$/NDF: 3759789.5/26

In: 1079.604+/-0.166 $\chi^2$/NDF:3124648.7/33

Out: 1074.813+/-0.161 $\chi^2$/NDF:2807300.6/36

All: 1077.140+/-0.116 $\chi^2$/NDF: 5932378.8/70

# diff_bpm1p02bY_mean vs Slug, Sign Corrected




Right In: 3.777+/-1.248 $\chi^2$/NDF: 15.2/12

Left Out: -2.447+/-0.801 $\chi^2$/NDF:20.4/22

Right Out: 2.709+/-1.211 $\chi^2$/NDF: 13.6/13

Left In: 0.197+/-0.831 $\chi^2$/NDF:12.6/20

Left: -1.174+/-0.577 $\chi^2$/NDF: 38.2/43

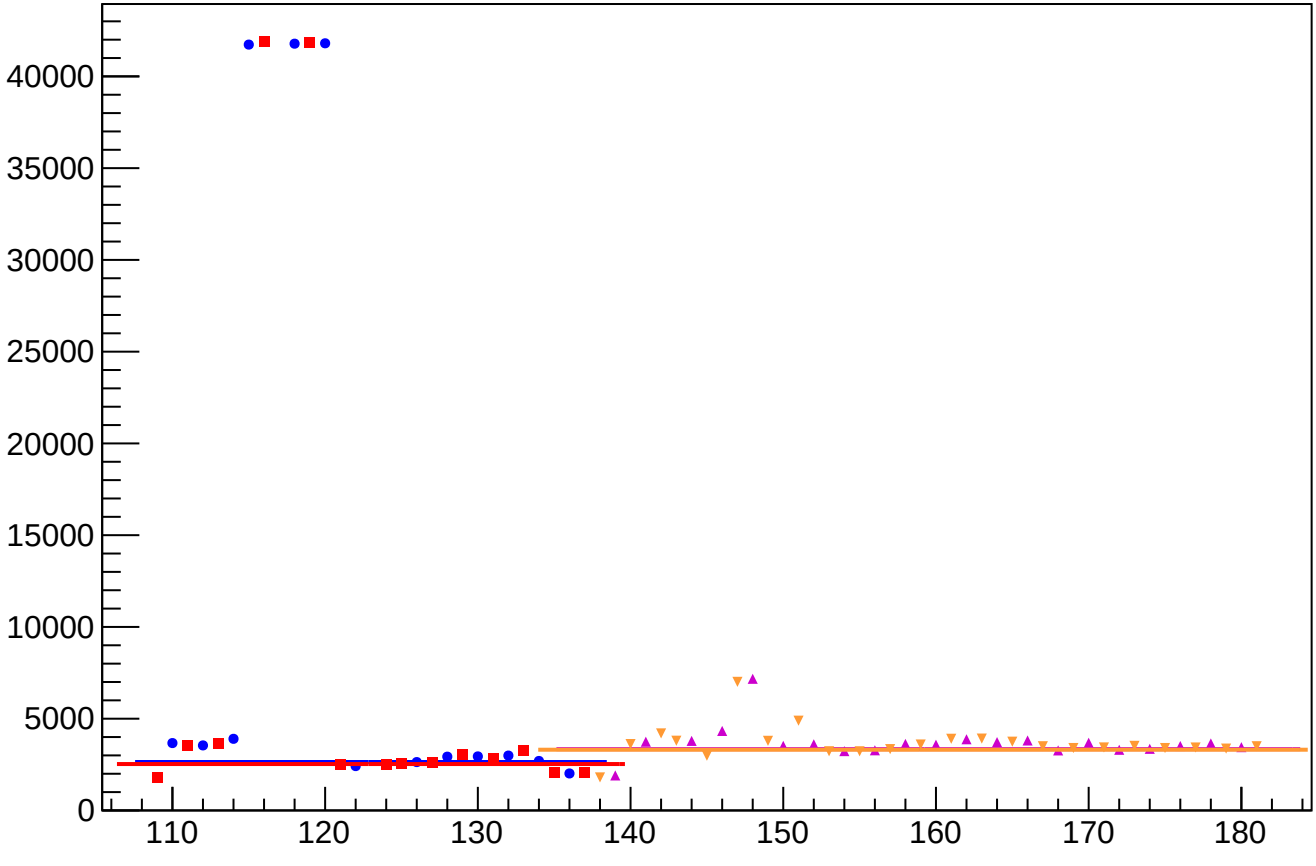
Right: 3.227+/-0.869 $\chi^2$/NDF: 29.2/26

In: 1.297+/-0.692 $\chi^2$/NDF:33.4/33

Out: -0.878+/-0.668 $\chi^2$/NDF:46.6/36

All: 0.171+/-0.481 $\chi^2$/NDF: 85.1/70

# diff_bpm1p02bY_rms vs Slug, Sign Corrected




Right In: 2639.943+/-0.883 $\chi^2$/NDF: 2173395.1/12

Left Out: 3309.553+/-0.566 $\chi^2$/NDF:1890954.1/22

Right Out: 2529.018+/-0.856 $\chi^2$/NDF: 1949928.1/13

Left In: 3341.007+/-0.588 $\chi^2$/NDF:1627196.1/20

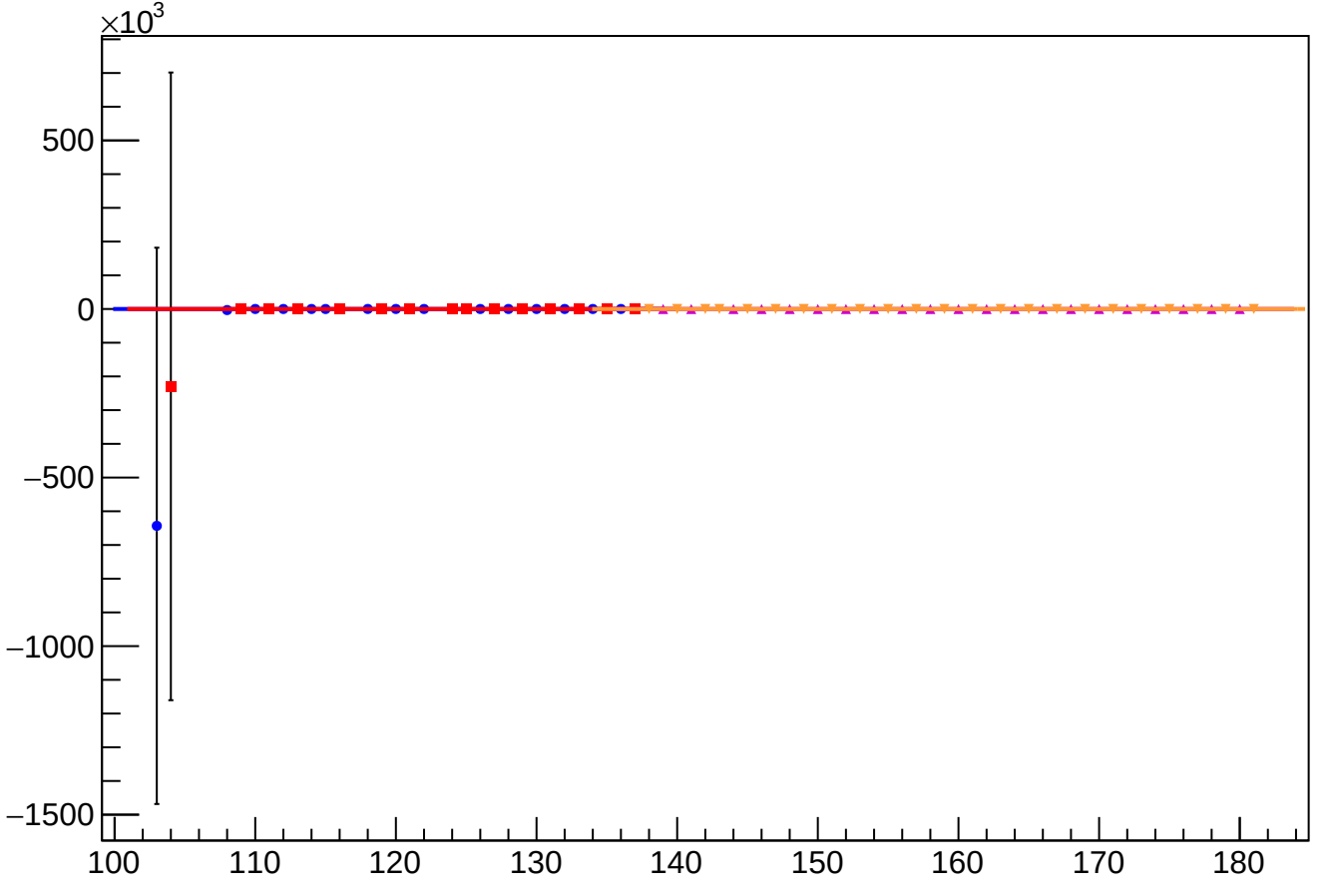
Left: 3324.696+/-0.408 $\chi^2$/NDF: 3519635.3/43

Right: 2582.794+/-0.615 $\chi^2$/NDF: 4131459.2/26

In: 3125.660+/-0.489 $\chi^2$/NDF:4237621.7/33

Out: 3072.017+/-0.472 $\chi^2$/NDF:4418960.6/36

All: 3097.898+/-0.340 $\chi^2$/NDF: 8662804.6/70




Right In: -1.215+/-1.125 $\chi^2$/NDF: 18.8/14

Left Out: -1.577+/-0.373 $\chi^2$/NDF:49.5/22

Right Out: 2.670+/-1.211 $\chi^2$/NDF: 14.4/14

Left In: 0.077+/-0.386 $\chi^2$/NDF:26.0/20

Left: -0.779+/-0.268 $\chi^2$/NDF: 85.0/43

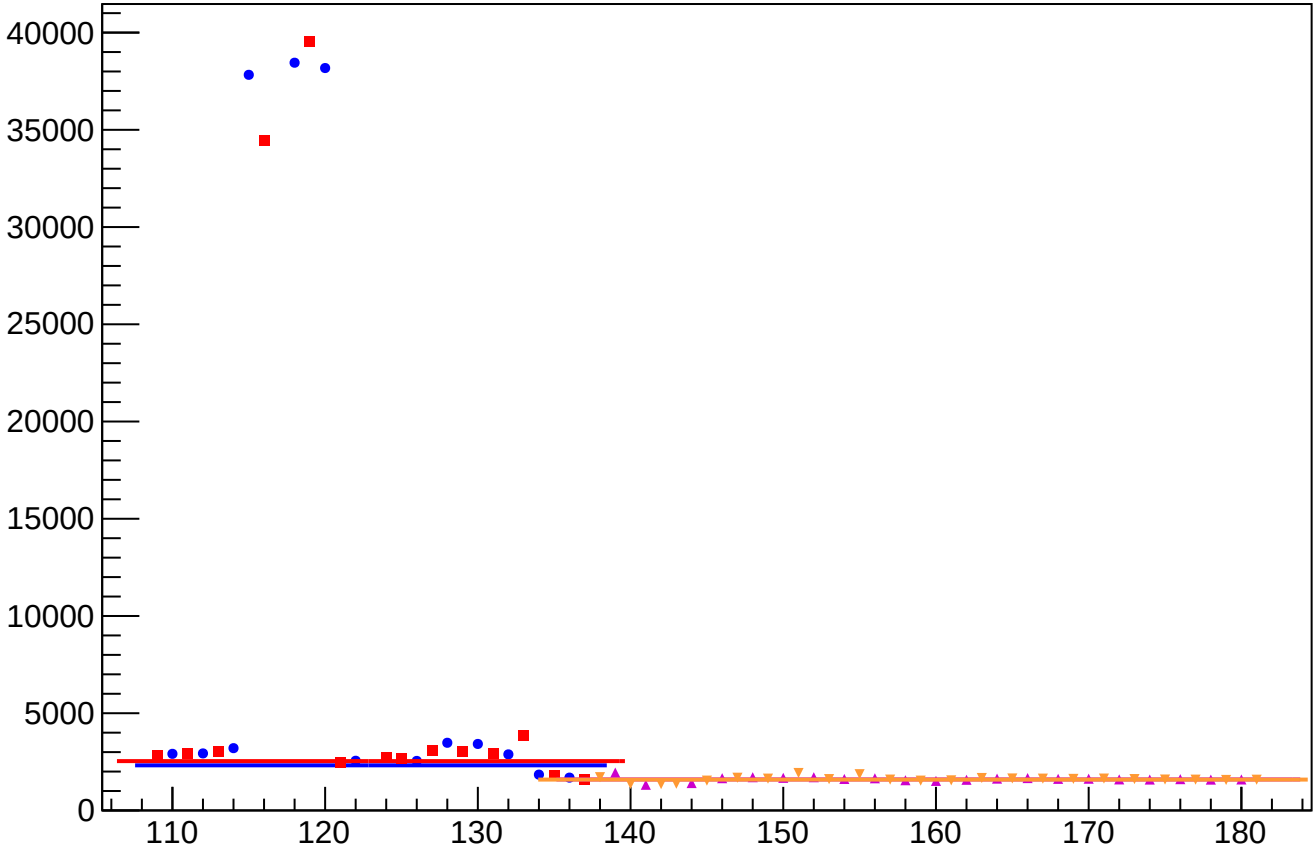
Right: 0.585+/-0.824 $\chi^2$/NDF: 38.7/29

In: -0.059+/-0.365 $\chi^2$/NDF:45.9/35

Out: -1.210+/-0.356 $\chi^2$/NDF:75.2/37

All: -0.648+/-0.255 $\chi^2$/NDF: 126.2/73

# diff_bpm1p03aX_rms vs Slug, Sign Corrected




Right In: 2320.446+/-0.796 $\chi^2$/NDF: 2461445.1/12

Left Out: 1587.163+/-0.264 $\chi^2$/NDF:230715.8/22

Right Out: 2537.615+/-0.856 $\chi^2$/NDF: 2038153.2/13

Left In: 1594.777+/-0.273 $\chi^2$/NDF:196226.1/20

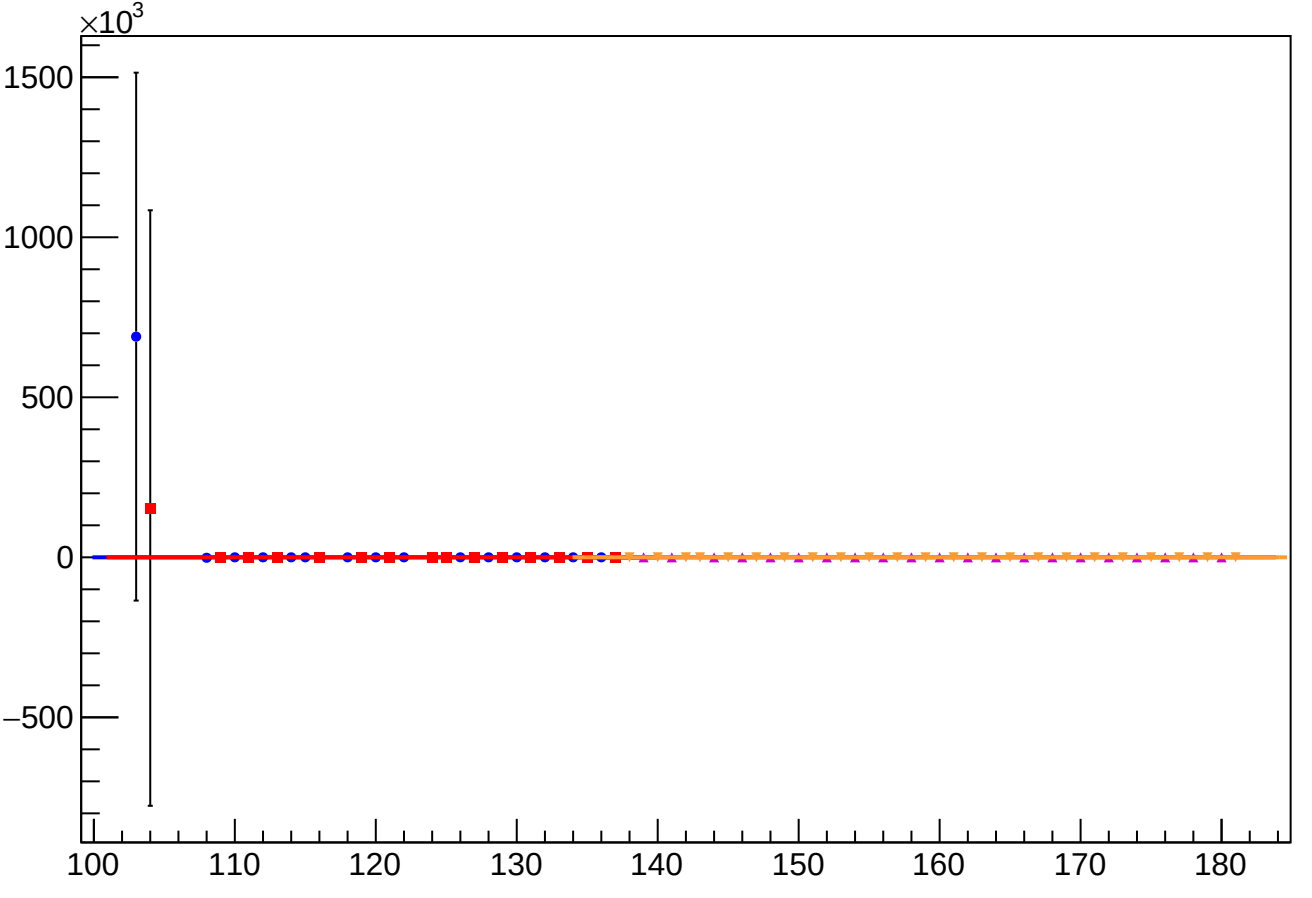
Left: 1590.838+/-0.190 $\chi^2$/NDF: 427344.8/43

Right: 2421.061+/-0.583 $\chi^2$/NDF: 4534110.8/26

In: 1671.118+/-0.258 $\chi^2$/NDF:3401917.9/33

Out: 1669.373+/-0.252 $\chi^2$/NDF:3394040.9/36

All: 1670.224+/-0.180 $\chi^2$/NDF: 6795982.2/70




Right In: 1.708+/-1.076 $\chi^2$/NDF: 5.0/14

Left Out: -1.209+/-0.516 $\chi^2$/NDF:22.0/22

Right Out: 1.893+/-1.052 $\chi^2$/NDF: 15.3/14

Left In: -0.108+/-0.515 $\chi^2$/NDF:16.4/20

Left: -0.658+/-0.365 $\chi^2$/NDF: 40.7/43

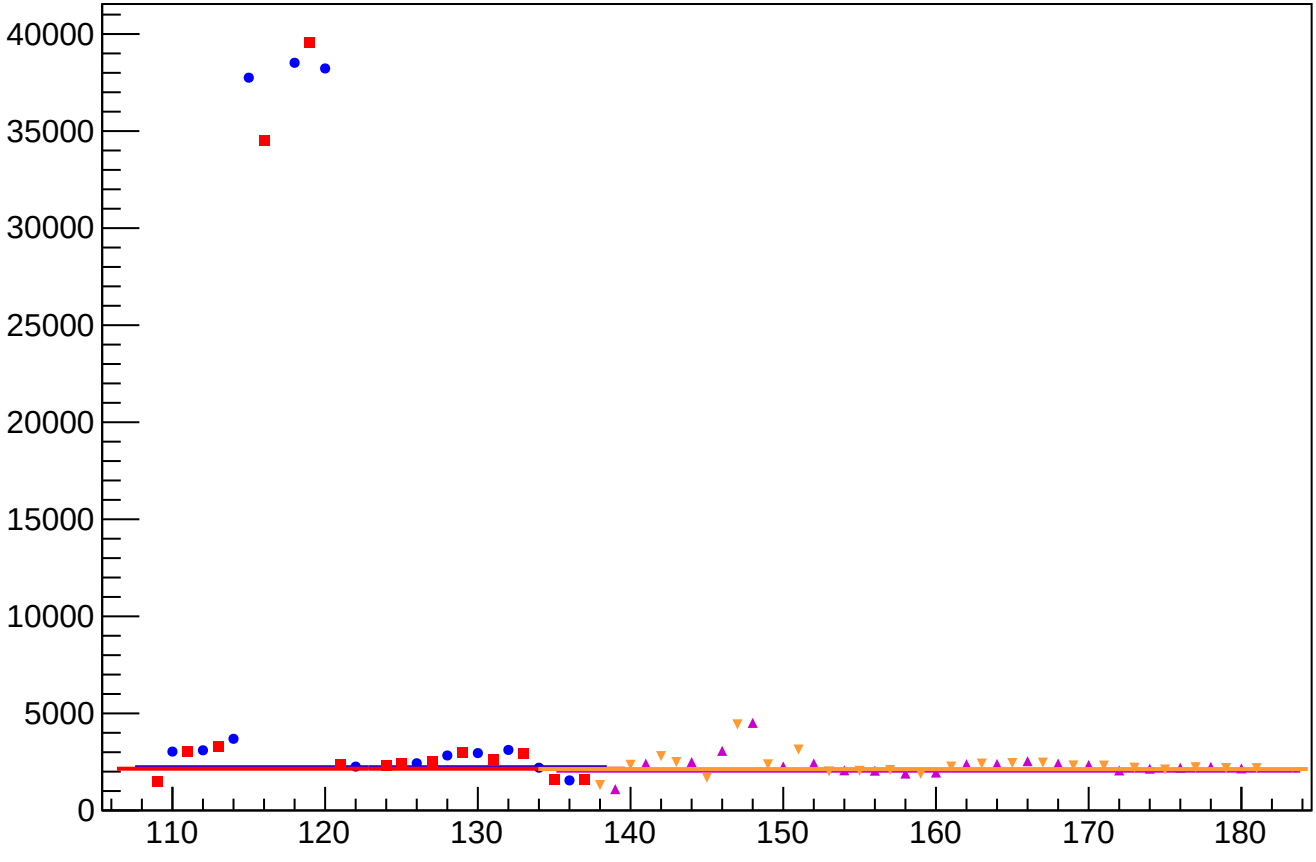
Right: 1.803+/-0.752 $\chi^2$/NDF: 20.3/29

In: 0.231+/-0.465 $\chi^2$/NDF:23.7/35

Out: -0.608+/-0.463 $\chi^2$/NDF:44.4/37

All: -0.190+/-0.328 $\chi^2$/NDF: 69.7/73

# diff_bpm1p03aY_rms vs Slug, Sign Corrected




Right In: 2226.944+/-0.761 $\chi^2$/NDF: 2522286.5/12

Left Out: 2132.453+/-0.365 $\chi^2$/NDF:1472966.5/22

Right Out: 2150.841+/-0.744 $\chi^2$/NDF: 2231322.0/13

Left In: 2047.770+/-0.364 $\chi^2$/NDF:2278397.1/20

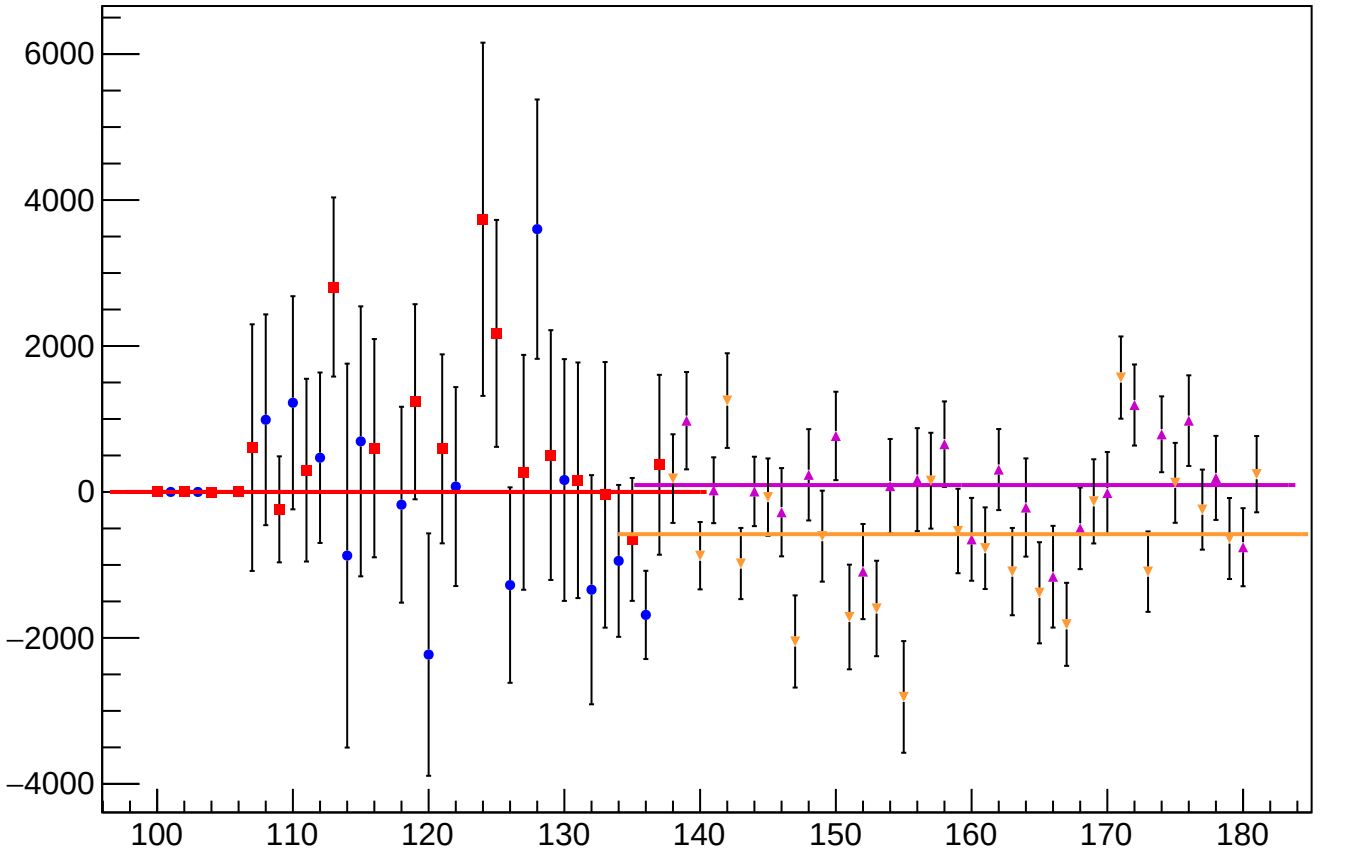
Left: 2090.073+/-0.258 $\chi^2$/NDF: 3778334.0/43

Right: 2188.011+/-0.532 $\chi^2$/NDF: 4758723.2/26

In: 2081.189+/-0.329 $\chi^2$/NDF:4845764.7/33

Out: 2136.019+/-0.328 $\chi^2$/NDF:3704781.3/36

All: 2108.705+/-0.232 $\chi^2$/NDF: 8564508.7/7




Right In: 0.255+/-0.356 $\chi^2$/NDF: 17.7/15

Left Out: -578.716+/-121.182 $\chi^2$/NDF:59.1/22

Right Out: -0.096+/-0.328 $\chi^2$/NDF: 15.4/18

Left In: 94.512+/-126.697 $\chi^2$/NDF:24.5/20

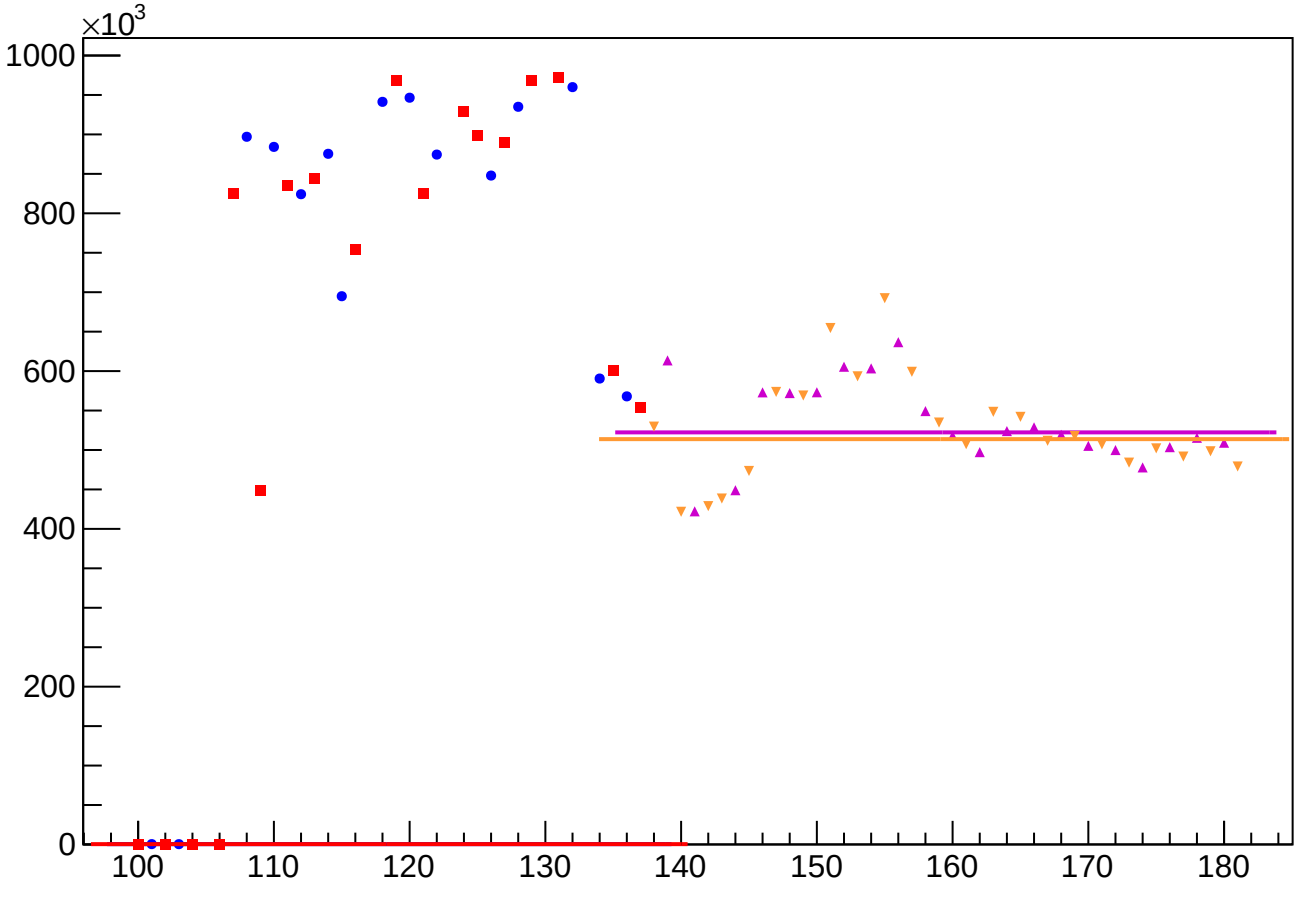
Left: -257.071+/-87.573 $\chi^2$/NDF: 98.3/43

Right: 0.065+/-0.241 $\chi^2$/NDF: 33.7/34

In: 0.256+/-0.356 $\chi^2$/NDF:42.8/36

Out: -0.100+/-0.328 $\chi^2$/NDF:97.3/41

All: 0.063+/-0.241 $\chi^2$/NDF: 140.6/78




Right In: 398.881+/-0.251 $\chi^2$/NDF: 8491830.9/14

Left Out: 513754.996+/-85.689 $\chi^2$/NDF:491508.3/22

Right Out: 393.240+/-0.232 $\chi^2$/NDF: 7648578.2/17

Left In: 522319.571+/-89.588 $\chi^2$/NDF:372590.3/20

Left: 517846.854+/-61.924 $\chi^2$/NDF: 868871.4/43

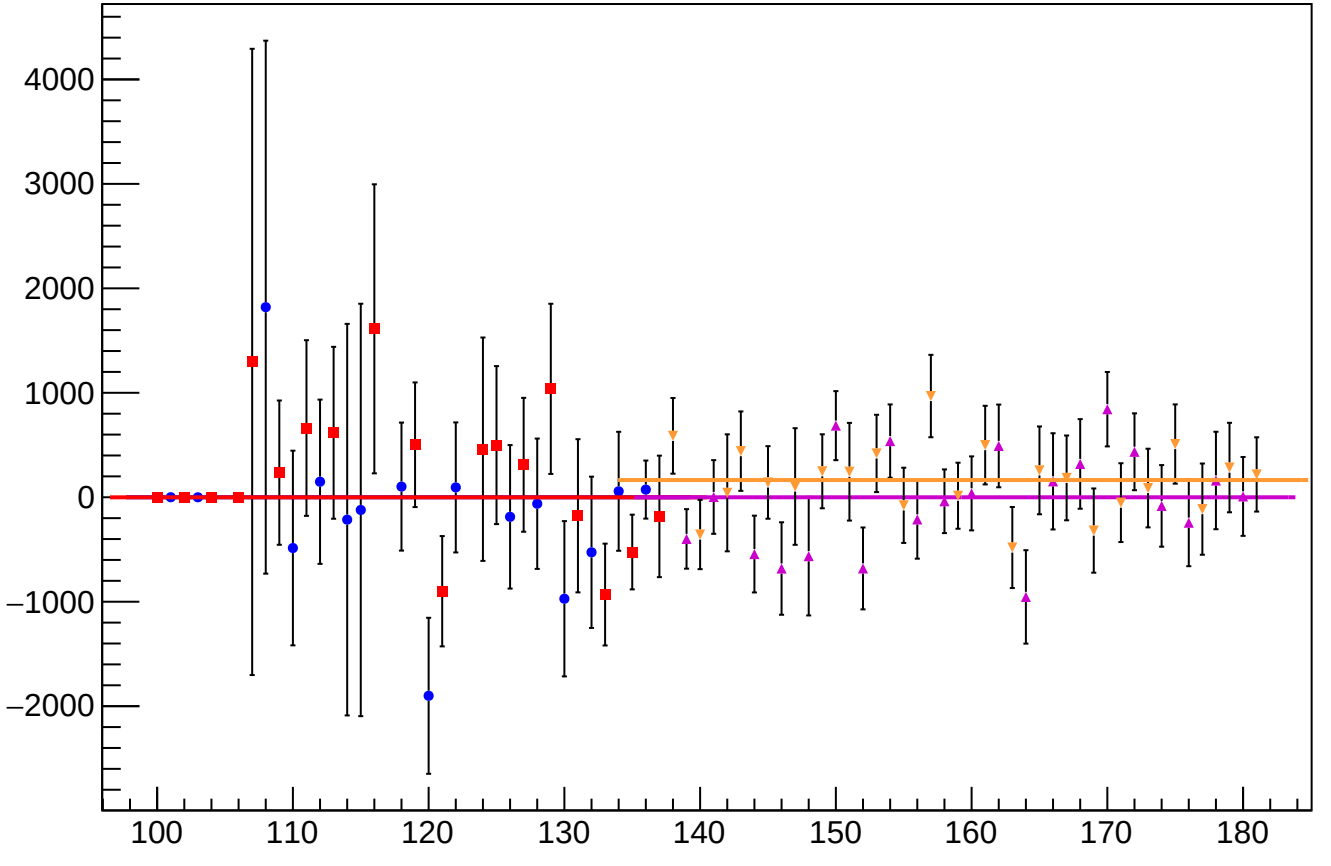
Right: 395.831+/-0.170 $\chi^2$/NDF: 16140681.1/32

In: 402.994+/-0.251 $\chi^2$/NDF:42803886.6/35

Out: 396.996+/-0.232 $\chi^2$/NDF:44031789.2/40

All: 399.750+/-0.170 $\chi^2$/NDF: 86835983.4/76

# diff_cav4bY_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.347 $\chi^2$/NDF: 10.5/15

Left Out: 164.845+/-80.708 $\chi^2$/NDF:16.6/22

Right Out: -0.599+/-0.324 $\chi^2$/NDF: 15.0/18

Left In: -0.150+/-82.683 $\chi^2$/NDF:31.8/20

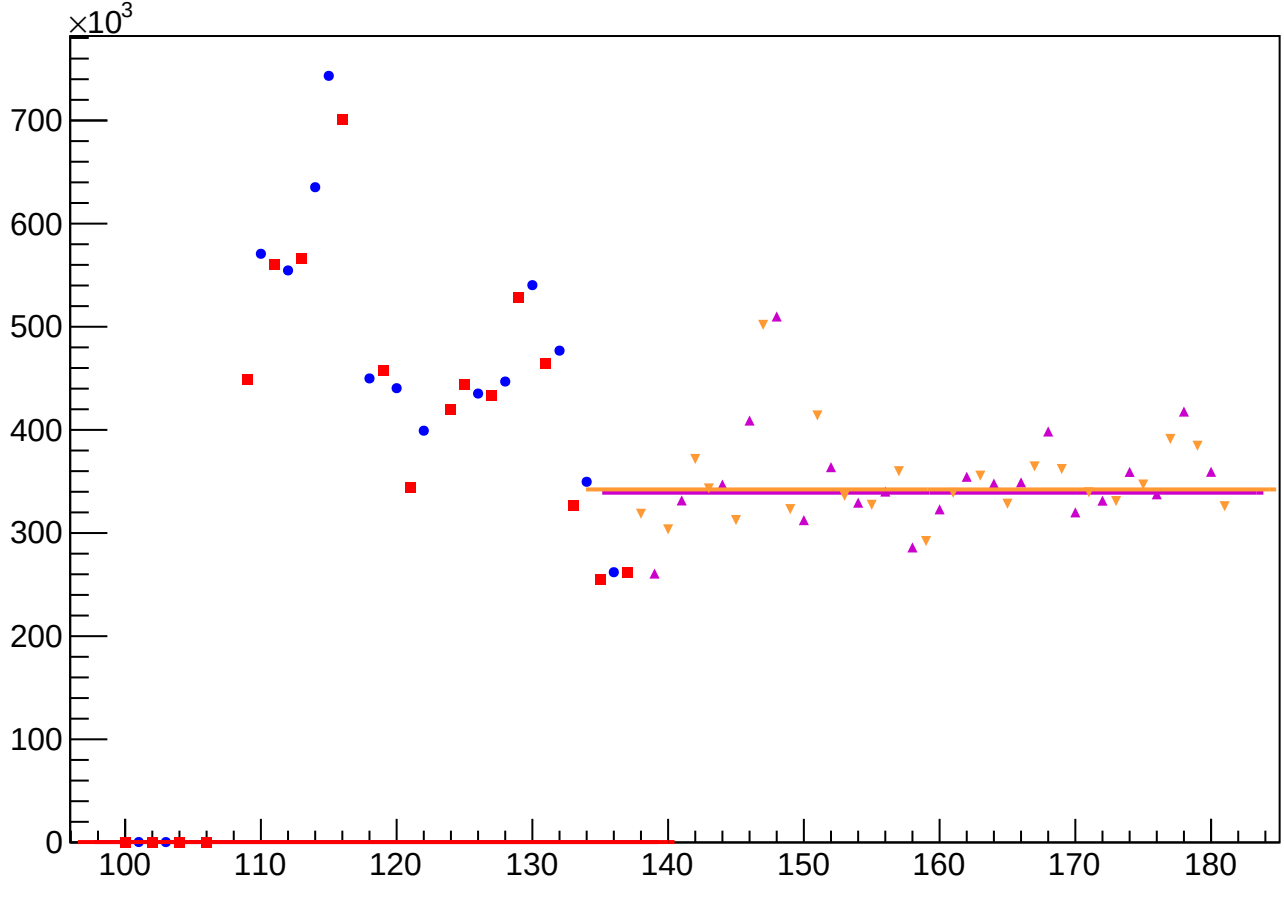
Left: 84.342+/-57.755 $\chi^2$/NDF: 50.4/43

Right: -0.330+/-0.237 $\chi^2$/NDF: 27.0/34

In: -0.020+/-0.347 $\chi^2$/NDF:42.3/36

Out: -0.596+/-0.324 $\chi^2$/NDF:35.8/41

All: -0.328+/-0.237 $\chi^2$/NDF: 79.5/78




Right In: 390.276+/-0.245 $\chi^2$/NDF: 11132240.7/14

Left Out: 342266.367+/-57.069 $\chi^2$/NDF:396966.5/22

Right Out: 387.984+/-0.229 $\chi^2$/NDF: 11074302.3/17

Left In: 339116.131+/-58.469 $\chi^2$/NDF:588844.4/20

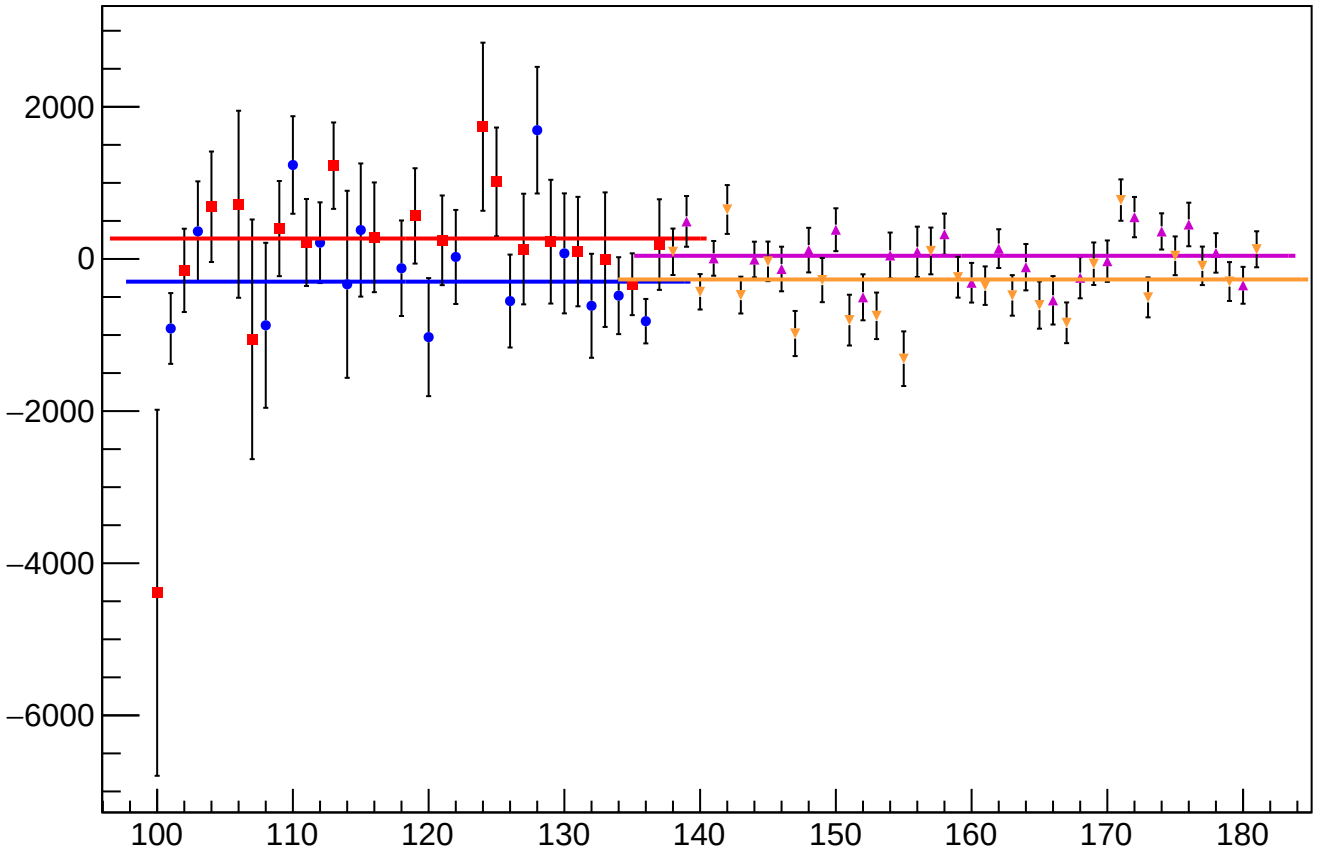
Left: 340729.406+/-40.840 $\chi^2$/NDF: 987297.5/43

Right: 389.050+/-0.167 $\chi^2$/NDF: 22206589.6/32

In: 396.245+/-0.245 $\chi^2$/NDF:45282607.1/35

Out: 393.487+/-0.229 $\chi^2$/NDF:47358050.4/40

All: 394.770+/-0.167 $\chi^2$/NDF: 92640725.0/76




Right In: -298.263+/-147.367 $\chi^2$/NDF: 21.2/15

Left Out: -269.500+/-57.271 $\chi^2$/NDF:59.6/22

Right Out: 268.892+/-156.582 $\chi^2$/NDF: 13.9/18

Left In: 41.689+/-59.667 $\chi^2$/NDF:25.1/20

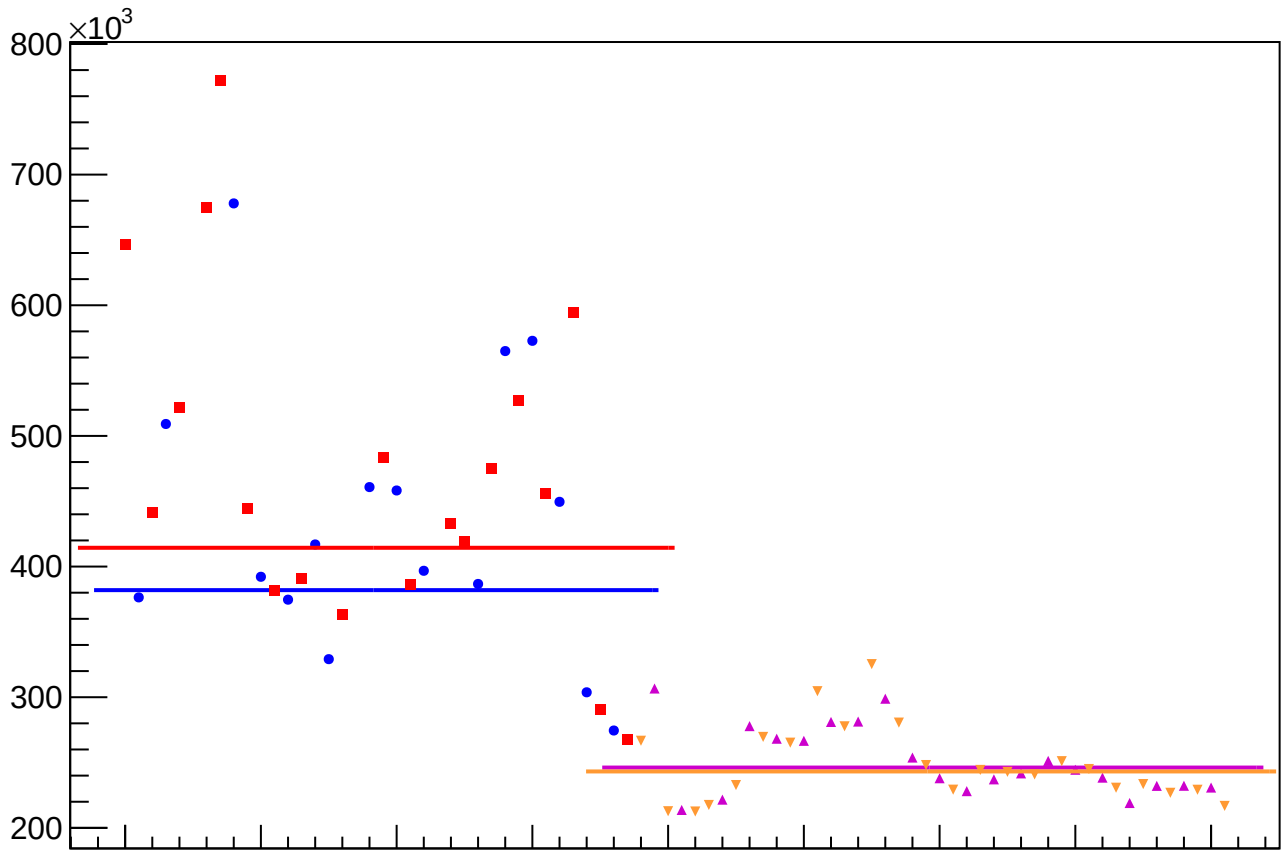
Left: -120.280+/-41.318 $\chi^2$/NDF: 98.9/43

Right: -31.865+/-107.314 $\chi^2$/NDF: 42.0/34

In: -6.191+/-55.306 $\chi^2$/NDF:50.9/36

Out: -205.974+/-53.786 $\chi^2$/NDF:83.9/41

All: -108.865+/-38.558 $\chi^2$/NDF: 141.5/78




Right In: 381960.471+/-104.223 $\chi^2$/NDF: 836441.6/15

Left Out: 243187.202+/-40.496 $\chi^2$/NDF:399906.5/22

Right Out: 414378.043+/-110.748 $\chi^2$/NDF: 760082.5/18

Left In: 246159.032+/-42.191 $\chi^2$/NDF:340949.8/20

Left: 244612.242+/-29.216 $\chi^2$/NDF: 743438.6/43

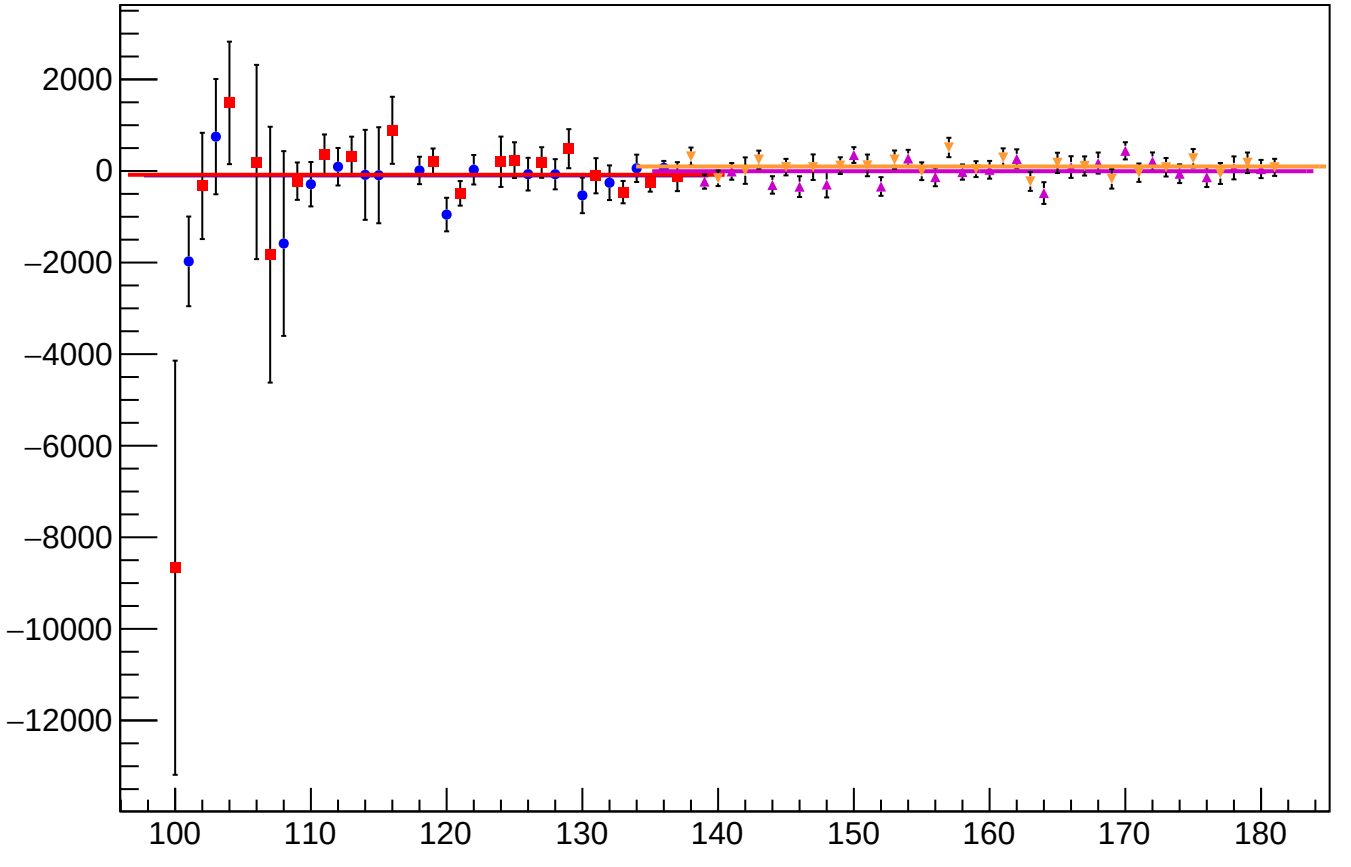
Right: 397186.164+/-75.899 $\chi^2$/NDF: 1641963.2/34

In: 265279.874+/-39.108 $\chi^2$/NDF:2636121.3/36

Out: 263377.240+/-38.033 $\chi^2$/NDF:3267575.4/41

All: 264302.059+/-27.266 $\chi^2$/NDF: 5904913.

# diff_cav4cY_mean vs Slug, Sign Corrected




Right In: -95.850+/-88.267 $\chi^2$/NDF: 13.7/15

Left Out: 98.521+/-42.567 $\chi^2$/NDF:16.0/22

Right Out: -82.750+/-87.316 $\chi^2$/NDF: 19.1/18

Left In: -5.150+/-43.739 $\chi^2$/NDF:31.2/20

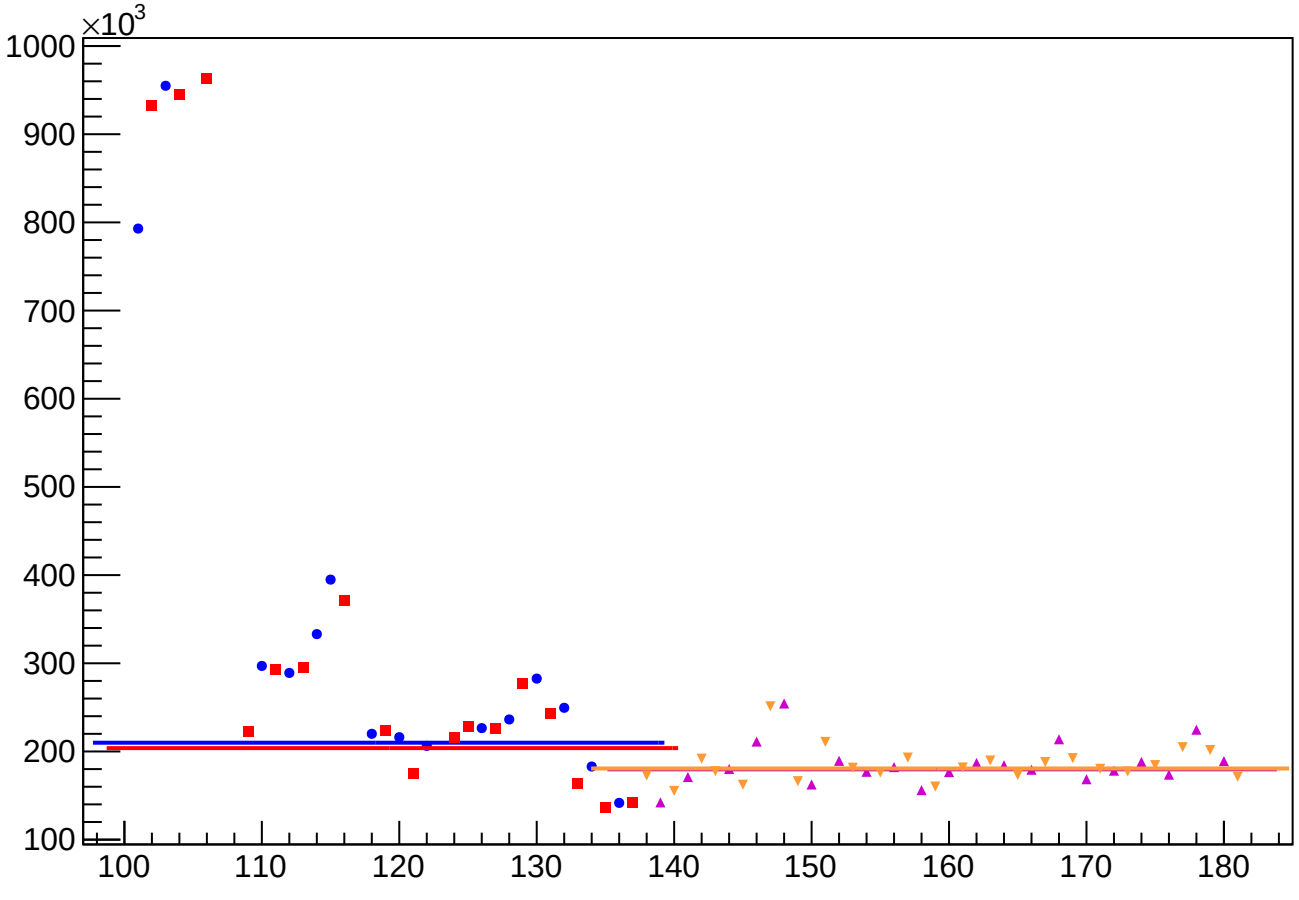
Left: 48.094+/-30.505 $\chi^2$/NDF: 50.1/43

Right: -89.229+/-62.075 $\chi^2$/NDF: 32.8/34

In: -23.031+/-39.191 $\chi^2$/NDF:45.7/36

Out: 63.713+/-38.262 $\chi^2$/NDF:38.6/41

All: 21.381+/-27.378 $\chi^2$/NDF: 86.8/78




Right In: 209929.195+/-62.523 $\chi^2$/NDF: 1959897.2/14

Left Out: 180709.990+/-30.099 $\chi^2$/NDF:341982.5/22

Right Out: 203793.382+/-61.895 $\chi^2$/NDF: 2070478.1/16

Left In: 179737.047+/-30.928 $\chi^2$/NDF:492068.7/20

Left: 180236.735+/-21.570 $\chi^2$/NDF: 834559.5/43

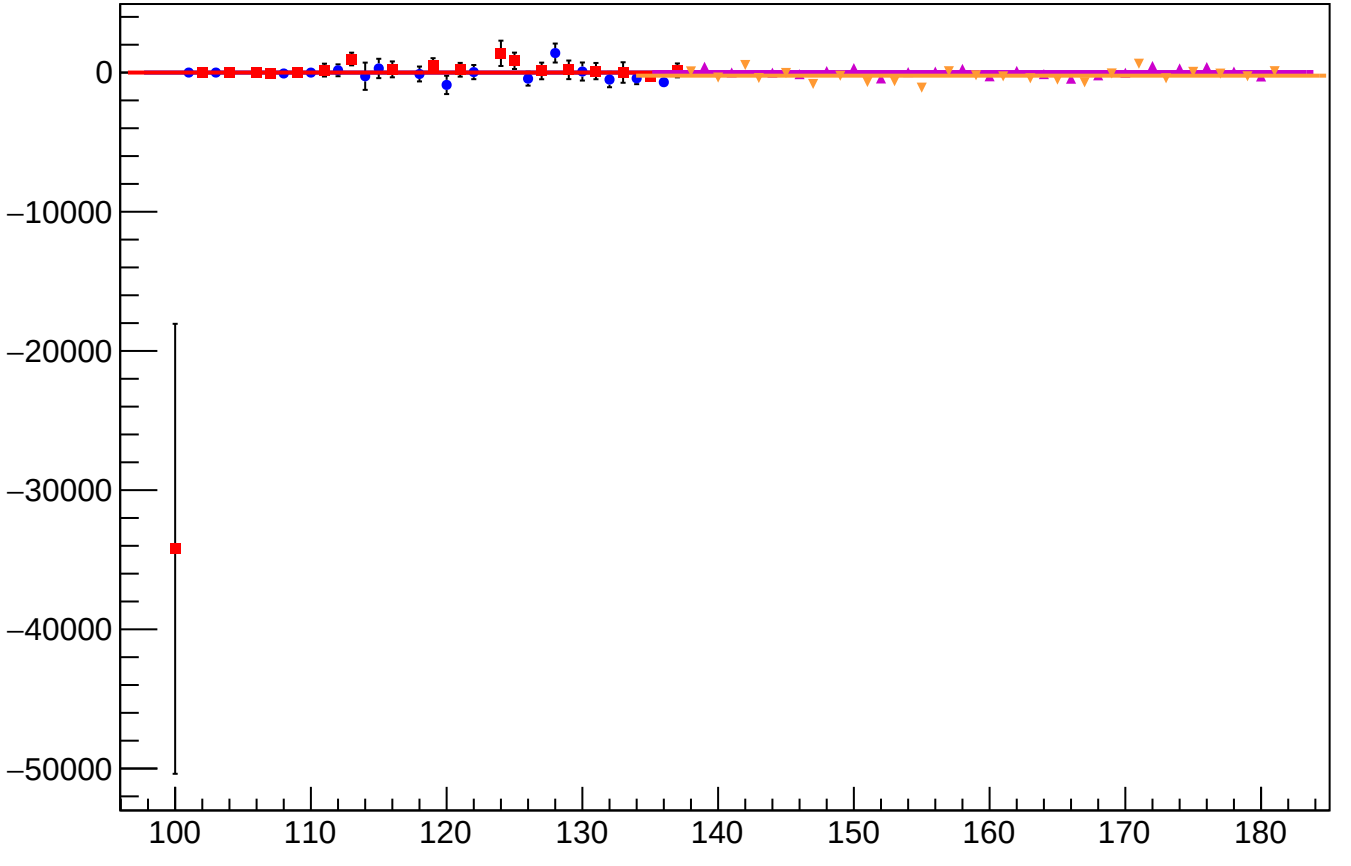
Right: 206830.314+/-43.987 $\chi^2$/NDF: 4035239.4/31

In: 185672.653+/-27.722 $\chi^2$/NDF:2639313.0/35

Out: 185124.818+/-27.068 $\chi^2$/NDF:2524948.1/39

All: 185392.201+/-19.367 $\chi^2$/NDF: 5164461.

# diff_cav4dX_mean vs Slug, Sign Corrected




Right In: -0.035+/-0.172 $\chi^2$/NDF: 18.1/15

Left Out: -223.491+/-47.892 $\chi^2$/NDF:59.3/22

Right Out: 0.355+/-0.160 $\chi^2$/NDF: 16.5/18

Left In: 38.830+/-49.931 $\chi^2$/NDF:25.2/20

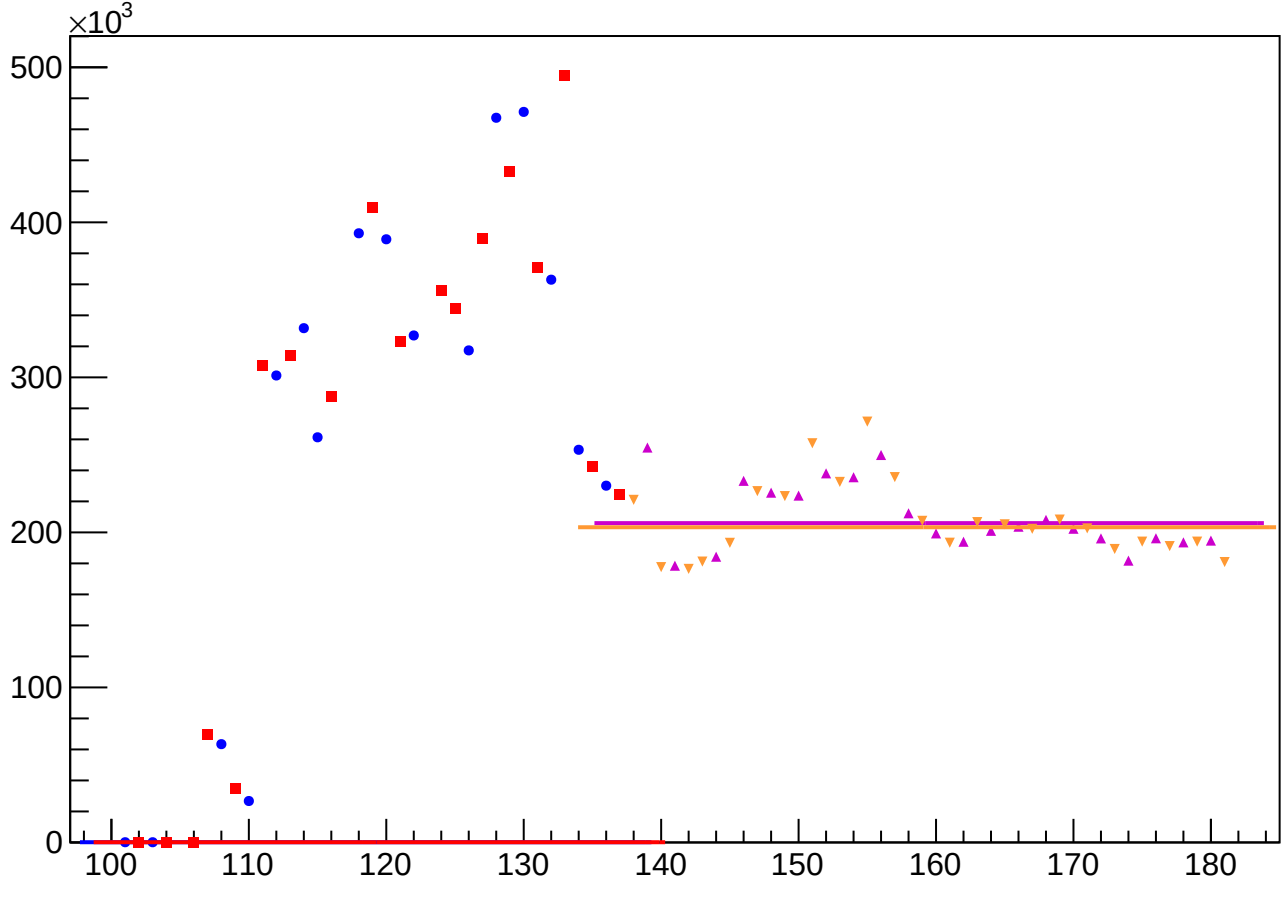
Left: -97.797+/-34.563 $\chi^2$/NDF: 98.9/43

Right: 0.174+/-0.117 $\chi^2$/NDF: 37.4/34

In: -0.035+/-0.172 $\chi^2$/NDF:43.9/36

Out: 0.353+/-0.160 $\chi^2$/NDF:97.7/41

All: 0.173+/-0.117 $\chi^2$/NDF: 144.3/78




Right In: 149.092+/-0.122 $\chi^2$/NDF: 11301940.9/15

Left Out: 203317.471+/-33.865 $\chi^2$/NDF:413939.6/22

Right Out: 149.379+/-0.113 $\chi^2$/NDF: 11288711.4/17

Left In: 205974.505+/-35.307 $\chi^2$/NDF:347328.9/20

Left: 204590.617+/-24.440 $\chi^2$/NDF: 764218.2/43

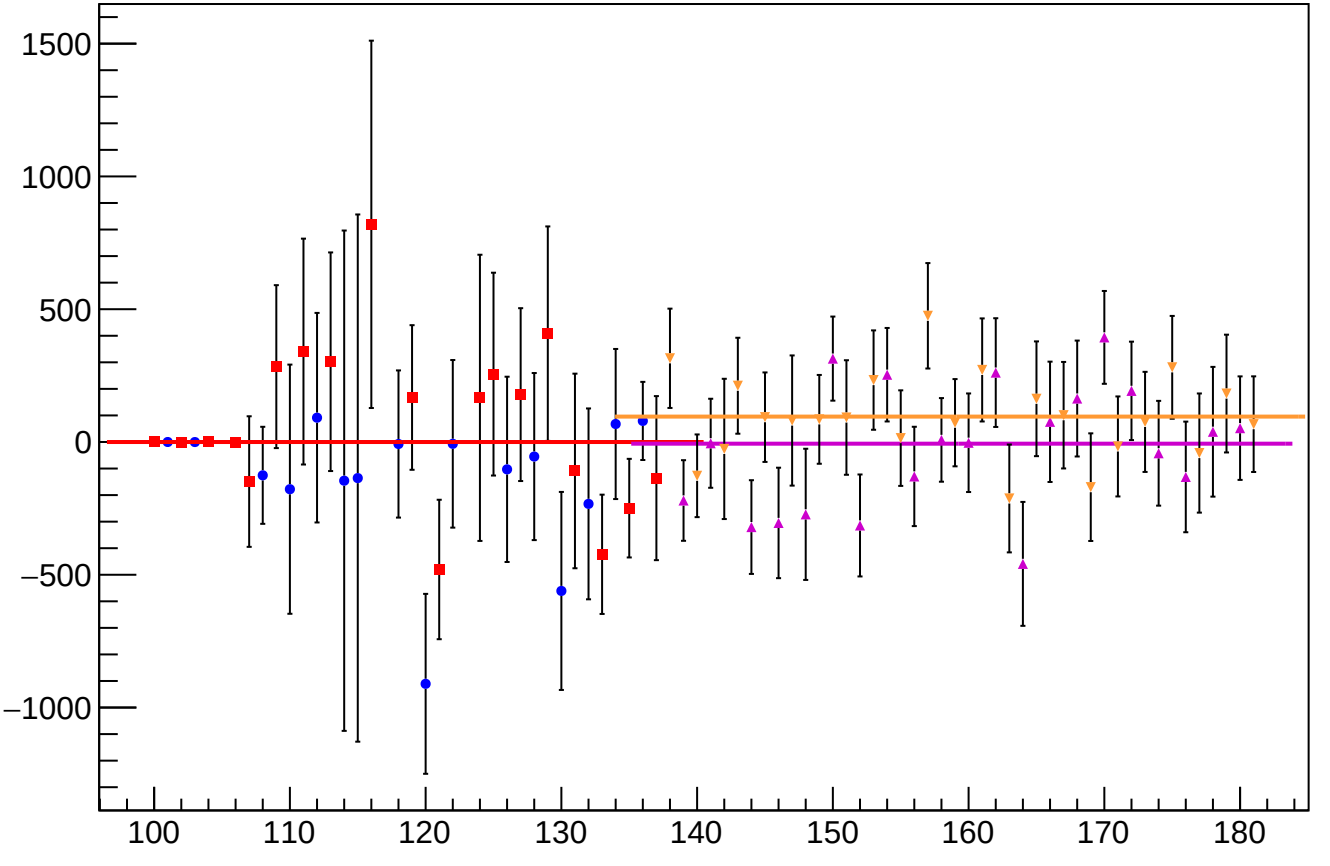
Right: 149.246+/-0.083 $\chi^2$/NDF: 22590655.3/33

In: 151.542+/-0.122 $\chi^2$/NDF:45633253.6/36

Out: 151.650+/-0.113 $\chi^2$/NDF:47695014.3/40

All: 151.600+/-0.083 $\chi^2$/NDF: 93328268.4/77

# diff_cav4dY_mean vs Slug, Sign Corrected




Right In: -0.068+/-0.177 $\chi^2$/NDF: 11.2/15

Left Out: 95.607+/-40.117 $\chi^2$/NDF:15.3/22

Right Out: -0.126+/-0.166 $\chi^2$/NDF: 15.2/18

Left In: -6.401+/-41.372 $\chi^2$/NDF:30.8/20

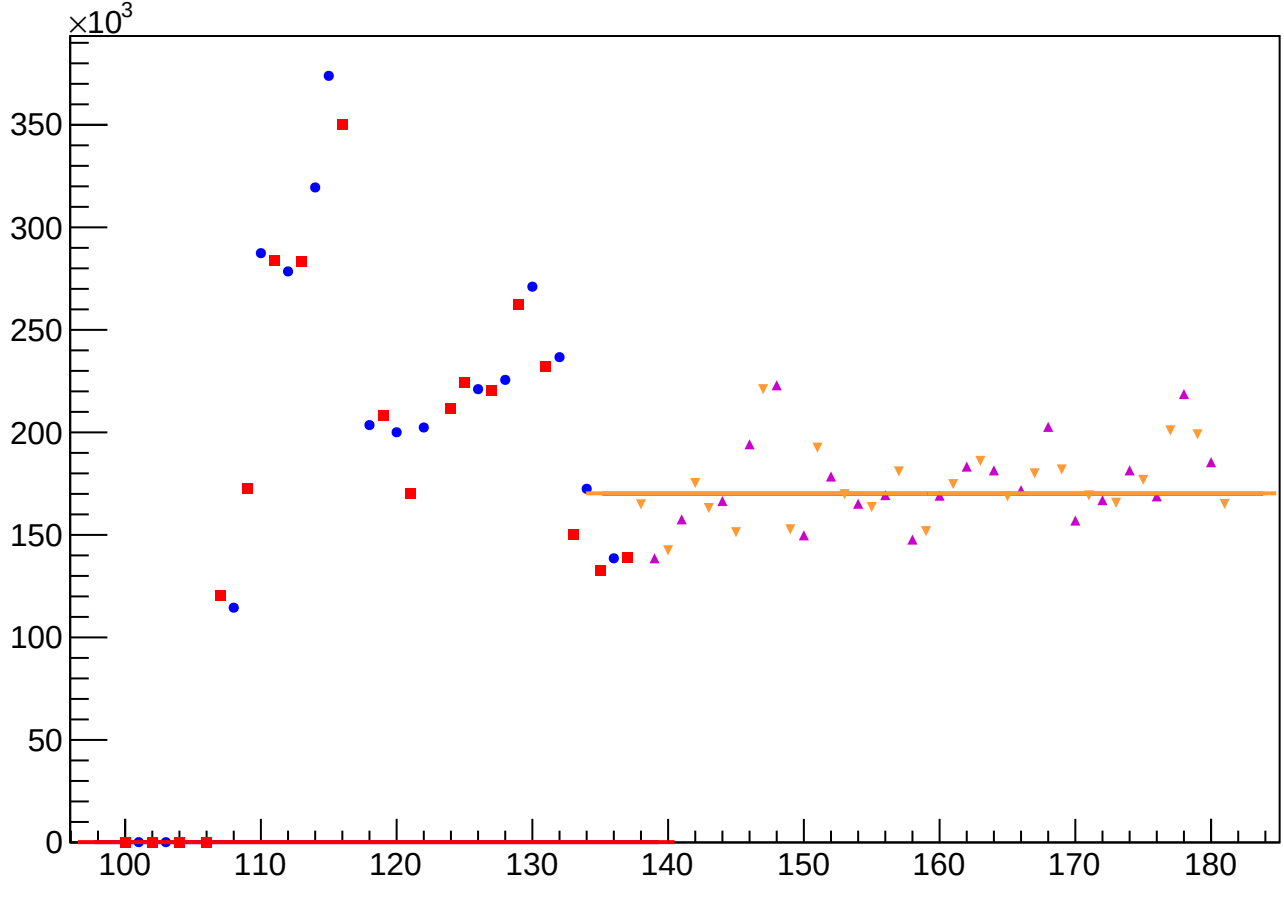
Left: 46.174+/-28.800 $\chi^2$/NDF: 49.2/43

Right: -0.099+/-0.121 $\chi^2$/NDF: 26.5/34

In: -0.068+/-0.177 $\chi^2$/NDF:42.0/36

Out: -0.124+/-0.166 $\chi^2$/NDF:36.2/41

All: -0.098+/-0.121 $\chi^2$/NDF: 78.3/78




Right In: 153.460+/-0.125 $\chi^2$/NDF: 11904914.7/15

Left Out: 170272.265+/-28.367 $\chi^2$/NDF:358522.1/22

Right Out: 156.158+/-0.118 $\chi^2$/NDF: 11330885.6/18

Left In: 170116.268+/-29.255 $\chi^2$/NDF:463374.5/20

Left: 170196.670+/-20.365 $\chi^2$/NDF: 821911.3/43

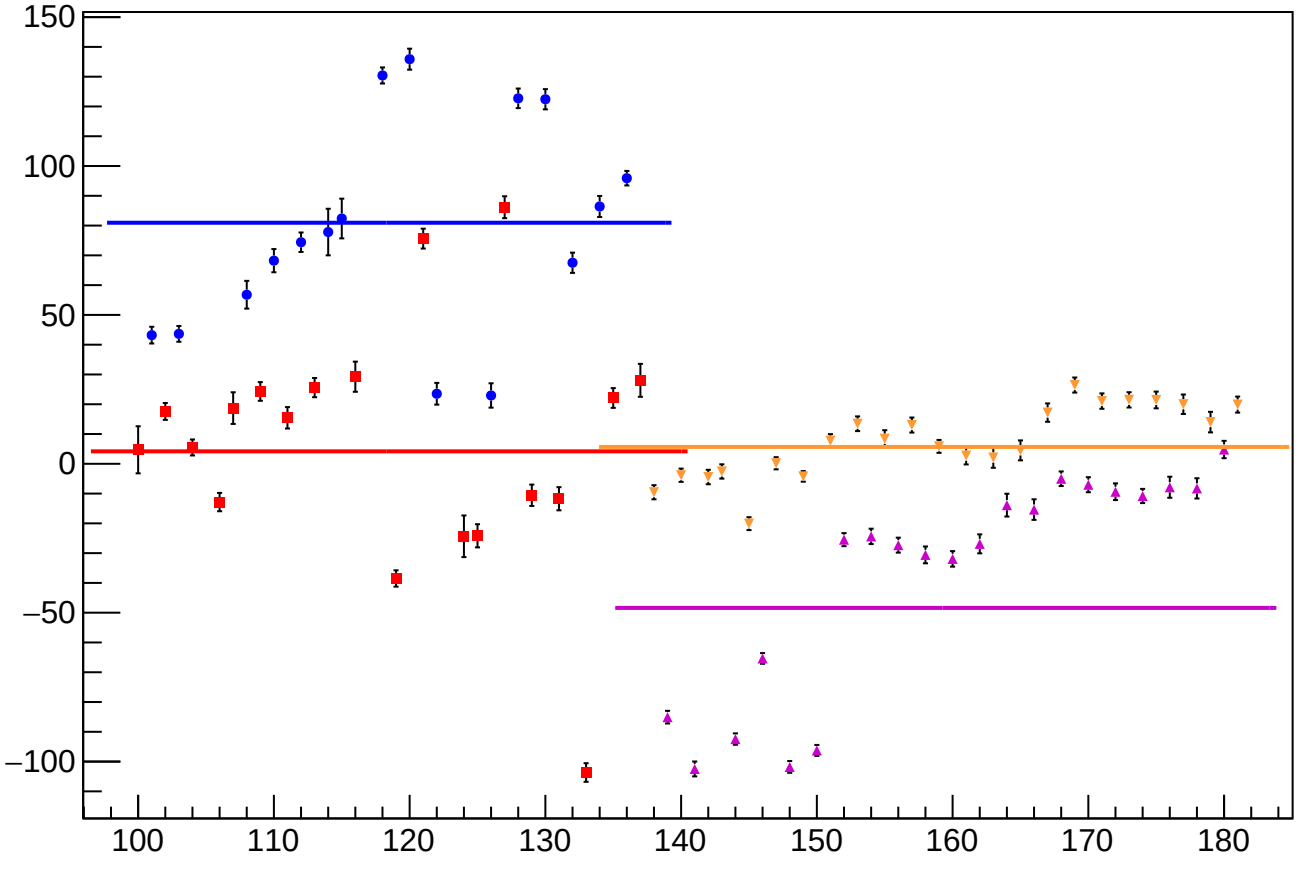
Right: 154.893+/-0.086 $\chi^2$/NDF: 23236046.4/34

In: 156.579+/-0.125 $\chi^2$/NDF:46121048.3/36

Out: 159.087+/-0.118 $\chi^2$/NDF:47653071.9/41

All: 157.912+/-0.086 $\chi^2$/NDF: 93774333.0/78

# diff_bpm0i01X_mean vs Slug, Sign Corrected




Right In: 80.955+/-0.851 $\chi^2$/NDF: 1813.9/15

Left Out: 5.664+/-0.524 $\chi^2$/NDF:529.1/22

Right Out: 4.183+/-0.820 $\chi^2$/NDF: 2719.7/18

Left In: -48.395+/-0.537 $\chi^2$/NDF:4976.0/20

Left: -20.682+/-0.375 $\chi^2$/NDF: 10694.1/43

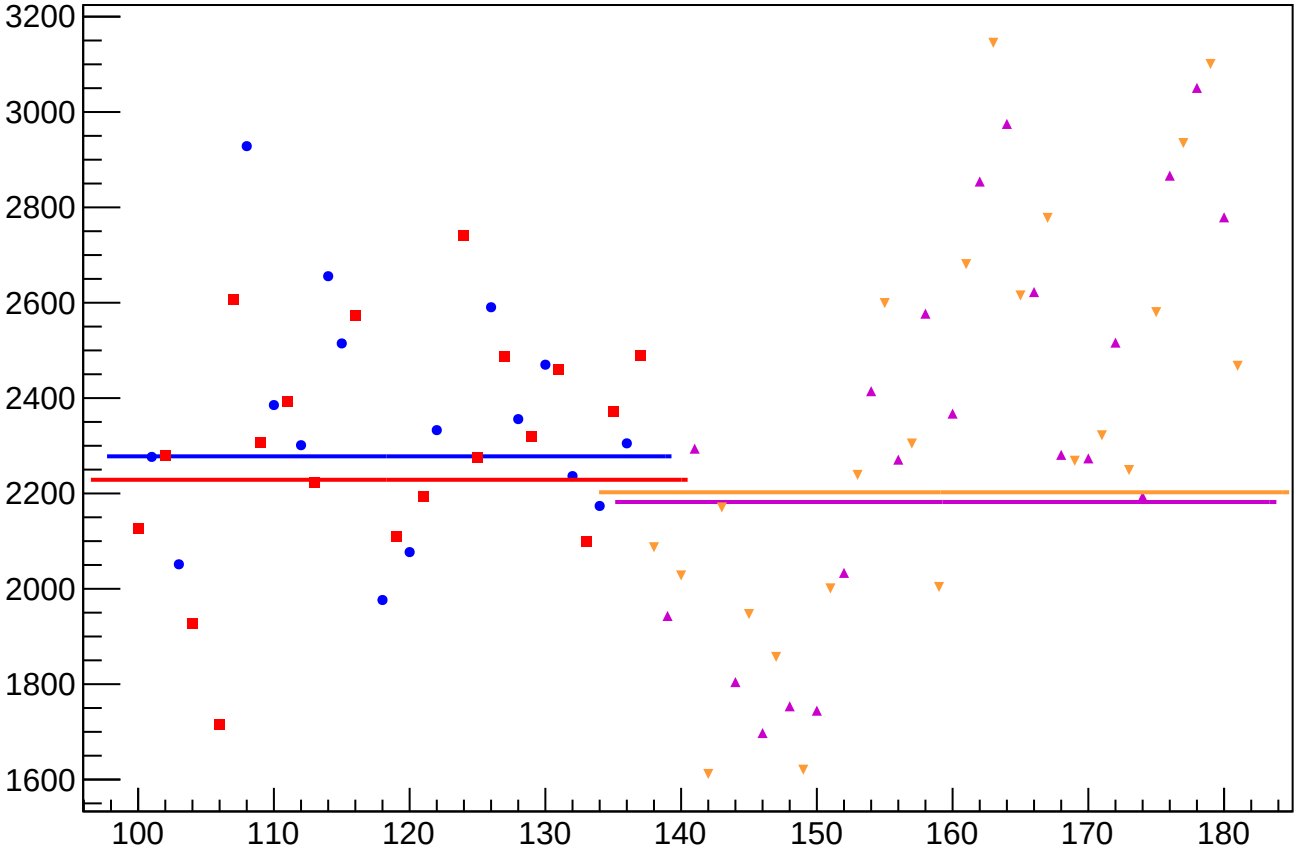
Right: 41.130+/-0.591 $\chi^2$/NDF: 8751.0/34

In: -11.554+/-0.454 $\chi^2$/NDF:23295.5/36

Out: 5.235+/-0.442 $\chi^2$/NDF:3251.1/41

All: -2.918+/-0.317 $\chi^2$/NDF: 27248.8/78

# diff_bpm0i01X_rms vs Slug, Sign Corrected




Right In: 2277.867+/-0.602 $\chi^2$/NDF: 115771.4/15

Left Out: 2202.481+/-0.370 $\chi^2$/NDF:1110302.0/22

Right Out: 2228.689+/-0.580 $\chi^2$/NDF: 151135.6/18

Left In: 2182.076+/-0.380 $\chi^2$/NDF:1067833.5/20

Left: 2192.536+/-0.265 $\chi^2$/NDF: 2179614.2/43

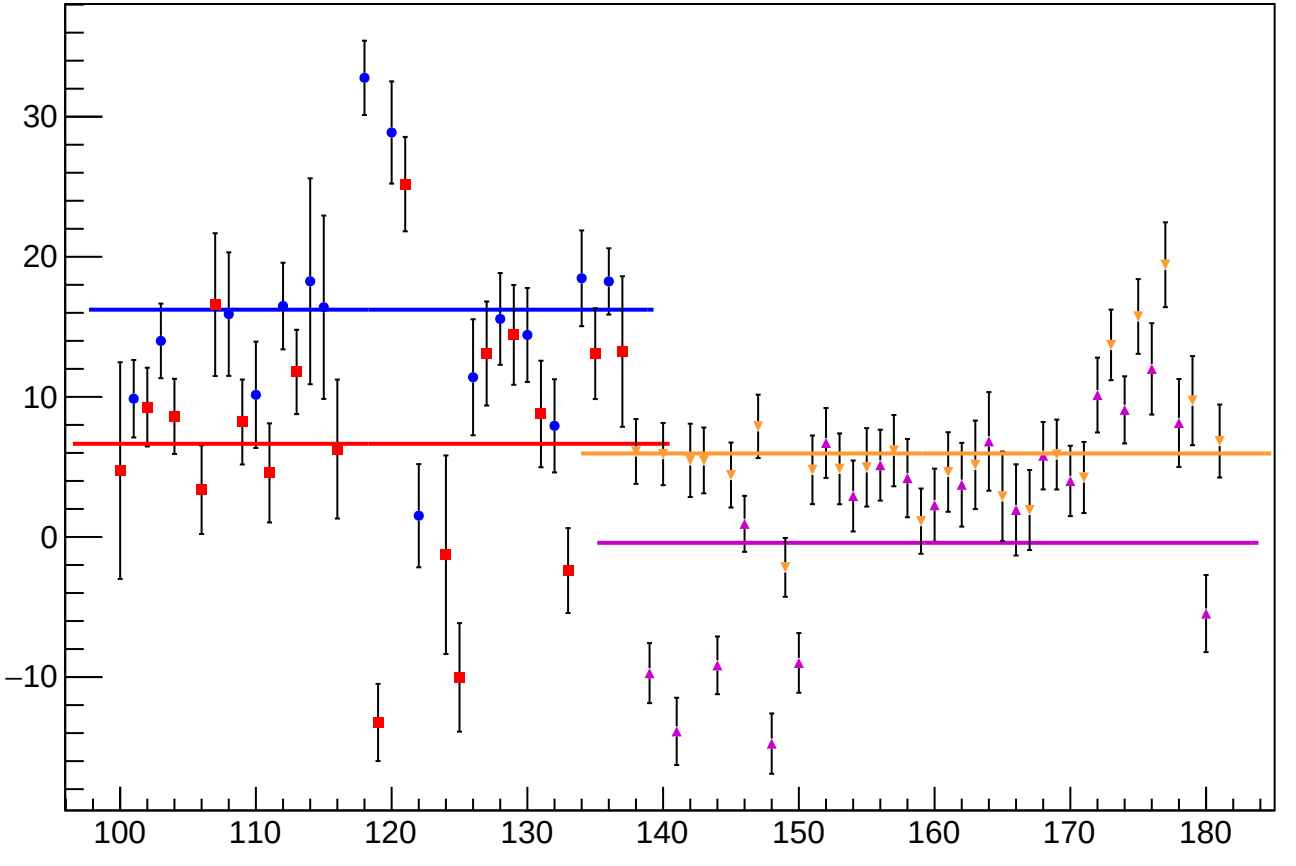
Right: 2252.356+/-0.418 $\chi^2$/NDF: 270367.9/34

In: 2209.358+/-0.321 $\chi^2$/NDF:1201709.0/36

Out: 2210.077+/-0.312 $\chi^2$/NDF:1262888.2/41

All: 2209.728+/-0.224 $\chi^2$/NDF: 2464599.7/78

# diff_bpm0i01Y_mean vs Slug, Sign Corrected




Right In: 16.226+/-0.838 $\chi^2$/NDF: 84.5/15

Left Out: 5.962+/-0.532 $\chi^2$/NDF:69.0/22

Right Out: 6.652+/-0.809 $\chi^2$/NDF: 134.6/18

Left In: -0.417+/-0.549 $\chi^2$/NDF:220.7/20

Left: 2.869+/-0.382 $\chi^2$/NDF: 359.3/43

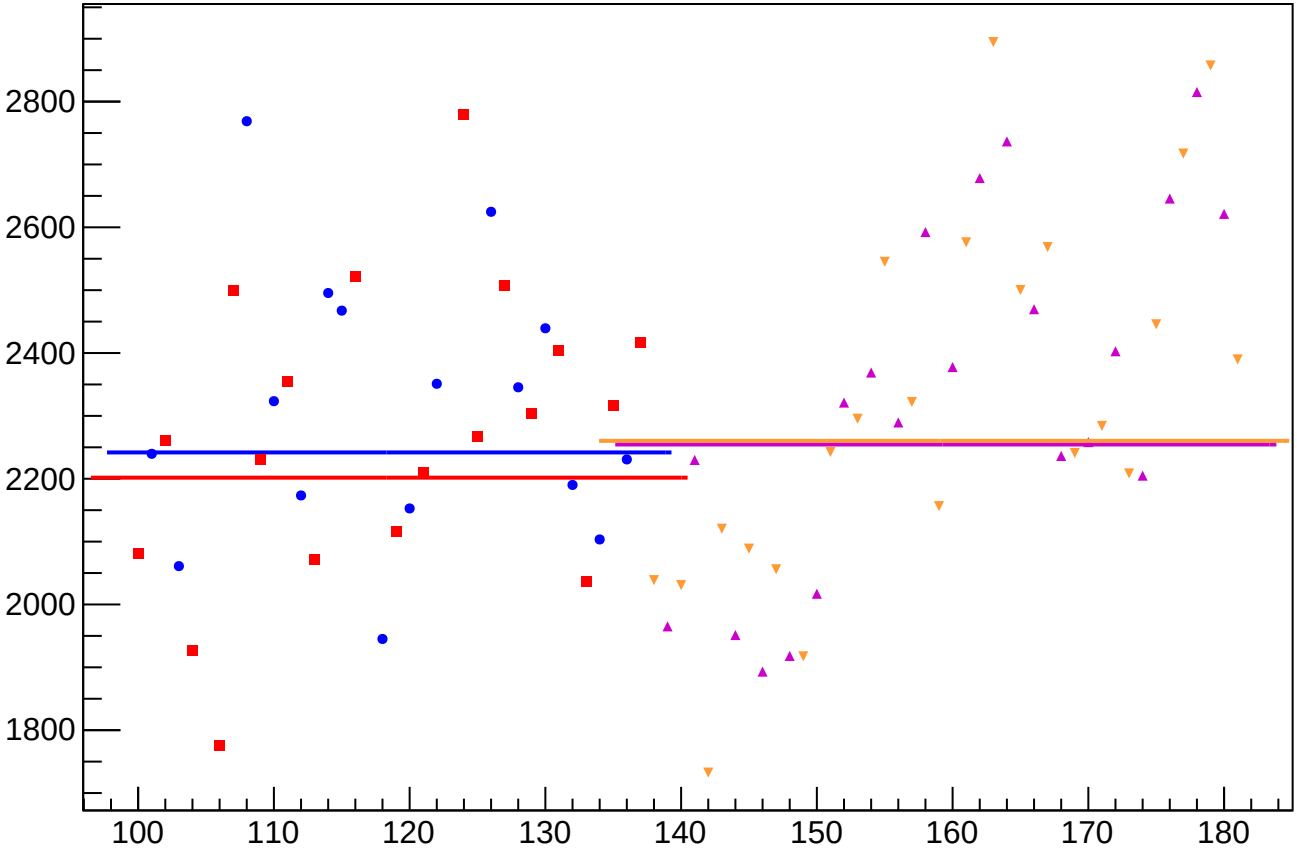
Right: 11.274+/-0.582 $\chi^2$/NDF: 286.7/34

In: 4.581+/-0.459 $\chi^2$/NDF:581.5/36

Out: 6.170+/-0.445 $\chi^2$/NDF:204.1/41

All: 5.401+/-0.319 $\chi^2$/NDF: 791.7/78

# diff_bpm0i01Y_rms vs Slug, Sign Corrected




Right In: 2241.853+/-0.592 $\chi^2$/NDF: 102260.7/15

Left Out: 2260.280+/-0.376 $\chi^2$/NDF:506934.8/22

Right Out: 2201.739+/-0.572 $\chi^2$/NDF: 129882.5/18

Left In: 2254.488+/-0.388 $\chi^2$/NDF:480259.5/20

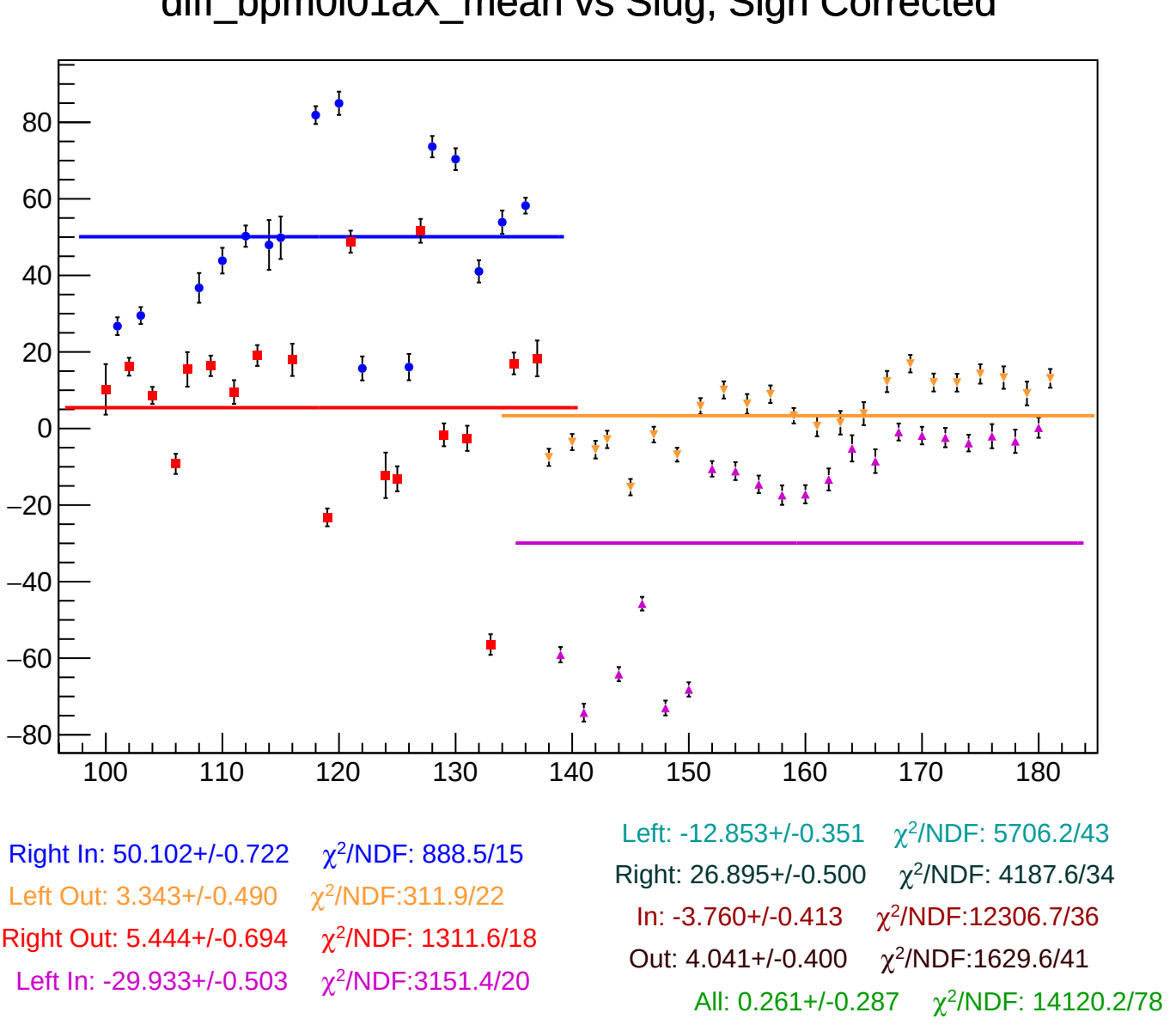
Left: 2257.472+/-0.270 $\chi^2$/NDF: 987309.0/43

Right: 2221.106+/-0.412 $\chi^2$/NDF: 234515.6/34

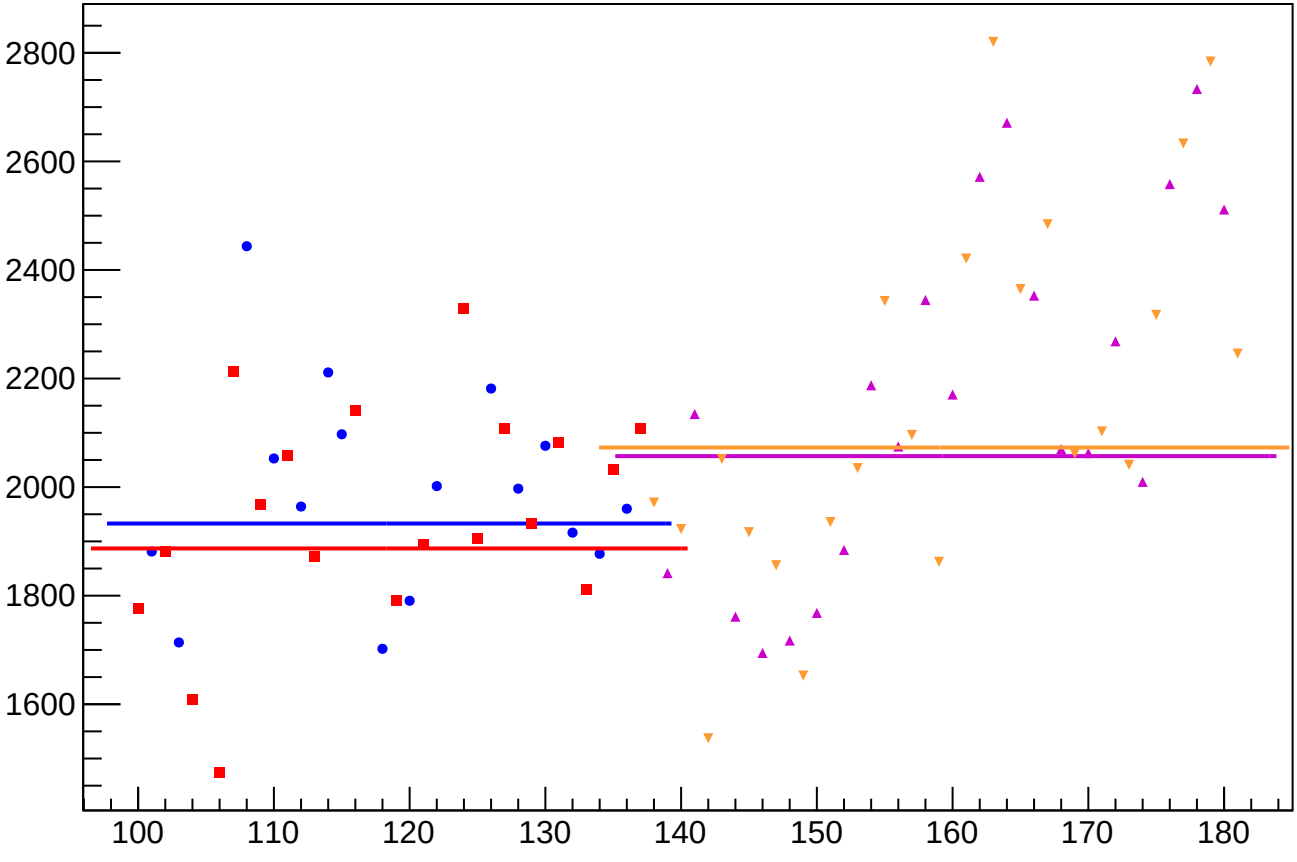
In: 2250.694+/-0.325 $\chi^2$/NDF:582838.6/36

Out: 2242.598+/-0.315 $\chi^2$/NDF:644121.4/41

All: 2246.518+/-0.226 $\chi^2$/NDF: 1227280.9/78


diff_bpm0i01aX_mean vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
100
110
120
130
140
150
160
170
180
Right In: 50.102+/-0.722 χ²/NDF: 888.5/15
Left Out: 3.343+/-0.490 χ²/NDF:311.9/22
Right Out: 5.444+/-0.694 χ²/NDF: 1311.6/18
Left In: -29.933+/-0.503 χ²/NDF:3151.4/20
Left: -12.853+/-0.351 χ²/NDF: 5706.2/43
Right: 26.895+/-0.500 χ²/NDF: 4187.6/34
In: -3.760+/-0.413 χ²/NDF:12306.7/36
Out: 4.041+/-0.400 χ²/NDF:1629.6/41
All: 0.261+/-0.287 χ²/NDF: 14120.2/78

# diff_bpm0i01aX_rms vs Slug, Sign Corrected




Right In: 1932.904+/-0.511 $\chi^2$/NDF: 105967.6/15

Left Out: 2072.975+/-0.347 $\chi^2$/NDF:736924.3/22

Right Out: 1887.006+/-0.491 $\chi^2$/NDF: 149746.6/18

Left In: 2057.047+/-0.356 $\chi^2$/NDF:686860.0/20

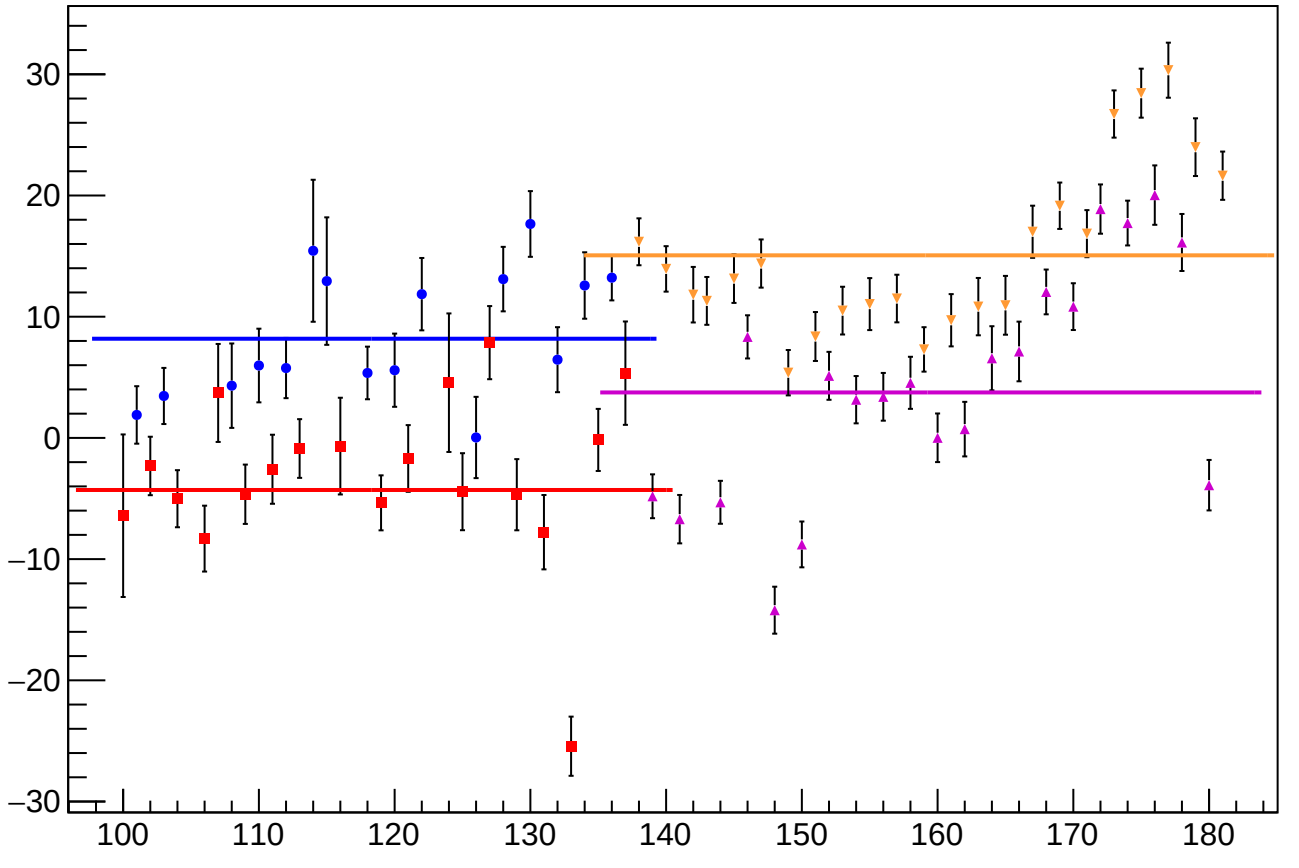
Left: 2065.223+/-0.248 $\chi^2$/NDF: 1424812.1/43

Right: 1909.052+/-0.354 $\chi^2$/NDF: 259912.9/34

In: 2016.450+/-0.292 $\chi^2$/NDF:832606.0/36

Out: 2011.109+/-0.283 $\chi^2$/NDF:982434.8/41

All: 2013.697+/-0.203 $\chi^2$/NDF: 1815213.2/78




Right In: 8.183+/-0.684 $\chi^2$/NDF: 52.0/15

Left Out: 15.064+/-0.426 $\chi^2$/NDF:243.5/22

Right Out: -4.297+/-0.665 $\chi^2$/NDF: 114.0/18

Left In: 3.751+/-0.440 $\chi^2$/NDF:453.2/20

Left: 9.595+/-0.306 $\chi^2$/NDF: 1037.7/43

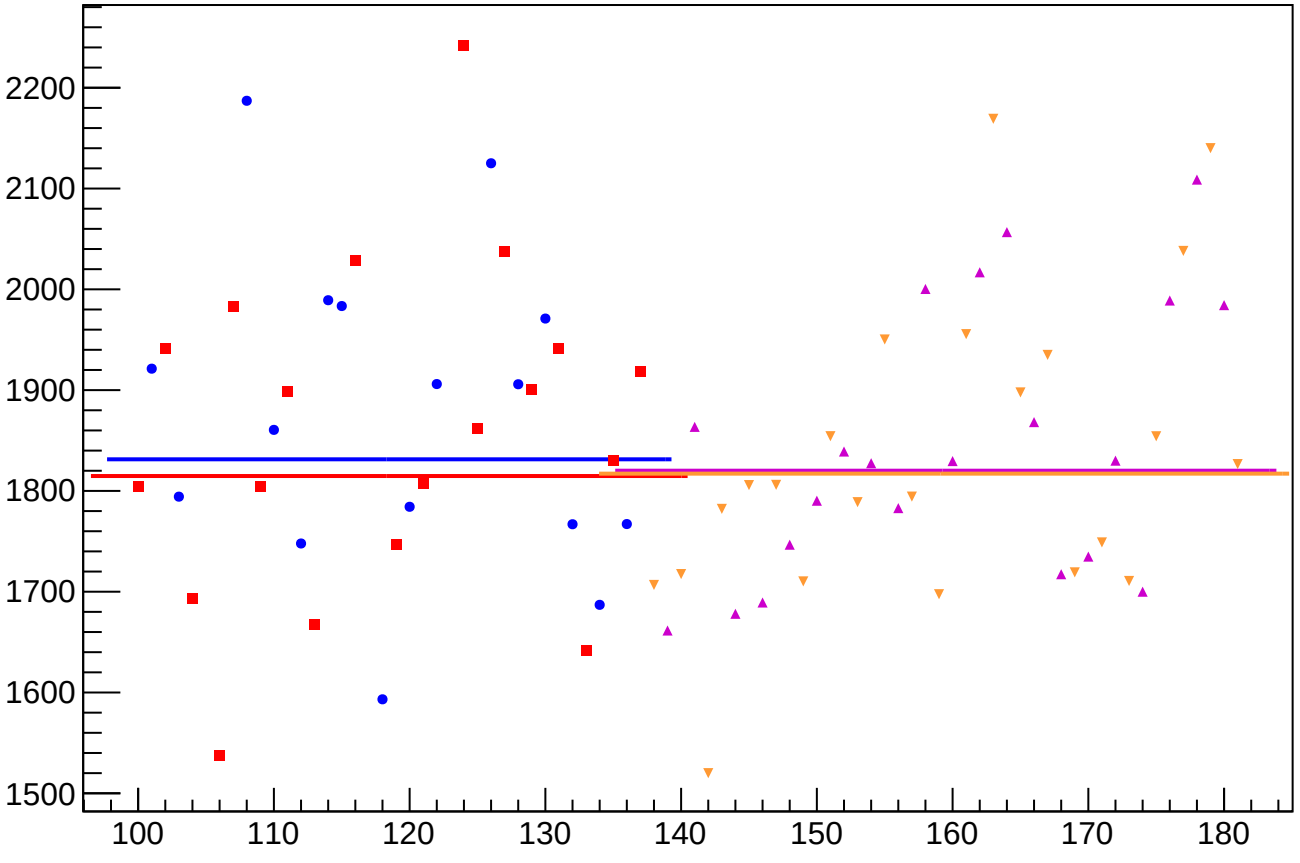
Right: 1.776+/-0.477 $\chi^2$/NDF: 337.0/34

In: 5.051+/-0.370 $\chi^2$/NDF:534.9/36

Out: 9.437+/-0.359 $\chi^2$/NDF:957.9/41

All: 7.313+/-0.258 $\chi^2$/NDF: 1565.2/78

# diff_bpm0i01aY_rms vs Slug, Sign Corrected




Right In: 1831.359+/-0.483 $\chi^2$/NDF: 86919.2/15

Left Out: 1817.133+/-0.301 $\chi^2$/NDF:201486.3/22

Right Out: 1814.774+/-0.471 $\chi^2$/NDF: 90738.7/18

Left In: 1820.058+/-0.311 $\chi^2$/NDF:161101.8/20

Left: 1818.547+/-0.216 $\chi^2$/NDF: 362633.6/43

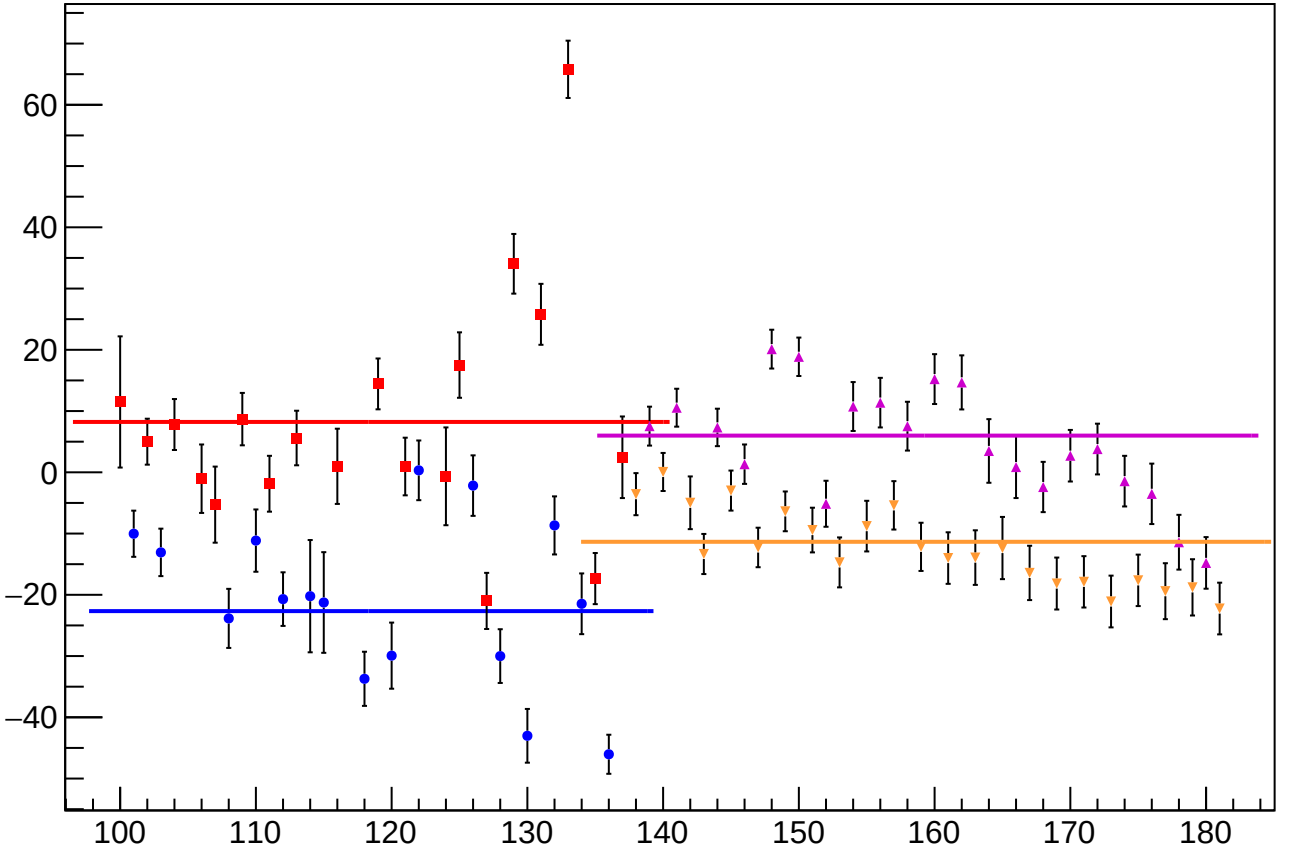
Right: 1822.844+/-0.337 $\chi^2$/NDF: 178262.4/34

In: 1823.373+/-0.262 $\chi^2$/NDF:248407.3/36

Out: 1816.447+/-0.254 $\chi^2$/NDF:292242.8/41

All: 1819.801+/-0.182 $\chi^2$/NDF: 541011.0/78

# diff_bpm0l01X_mean vs Slug, Sign Corrected




Right In: -22.663+/-1.152 $\chi^2$/NDF: 157.2/15

Left Out: -11.345+/-0.812 $\chi^2$/NDF:60.8/22

Right Out: 8.224+/-1.129 $\chi^2$/NDF: 294.8/18

Left In: 5.992+/-0.835 $\chi^2$/NDF:115.3/20

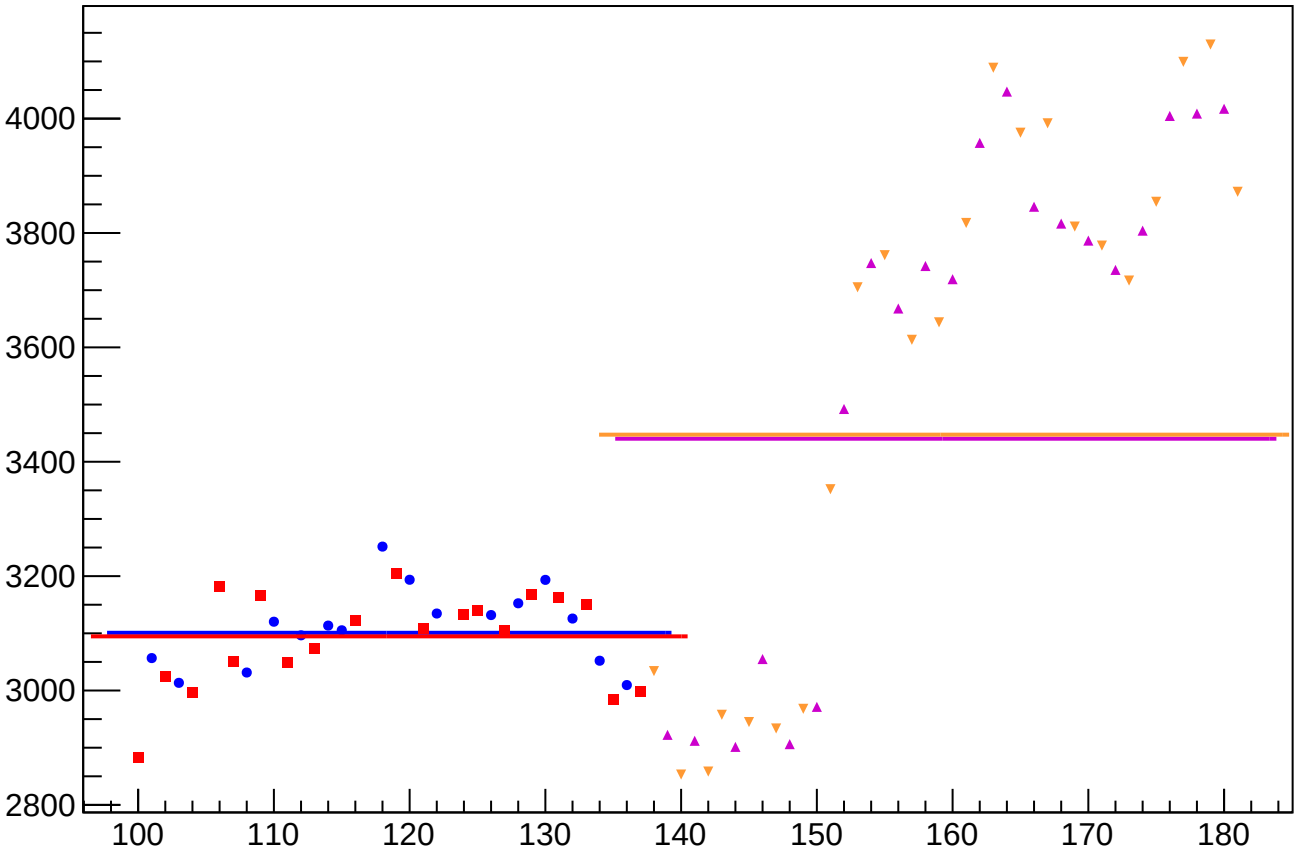
Left: -2.918+/-0.582 $\chi^2$/NDF: 397.5/43

Right: -6.906+/-0.806 $\chi^2$/NDF: 818.8/34

In: -3.882+/-0.676 $\chi^2$/NDF:678.0/36

Out: -4.669+/-0.659 $\chi^2$/NDF:553.7/41

All: -4.285+/-0.472 $\chi^2$/NDF: 1232.4/78




Right In: 3100.940+/-0.815 $\chi^2$/NDF: 7893.7/15

Left Out: 3447.374+/-0.574 $\chi^2$/NDF:623231.0/22

Right Out: 3094.688+/-0.798 $\chi^2$/NDF: 8584.4/18

Left In: 3440.293+/-0.591 $\chi^2$/NDF:562602.9/20

Left: 3443.932+/-0.412 $\chi^2$/NDF: 1185907.8/43

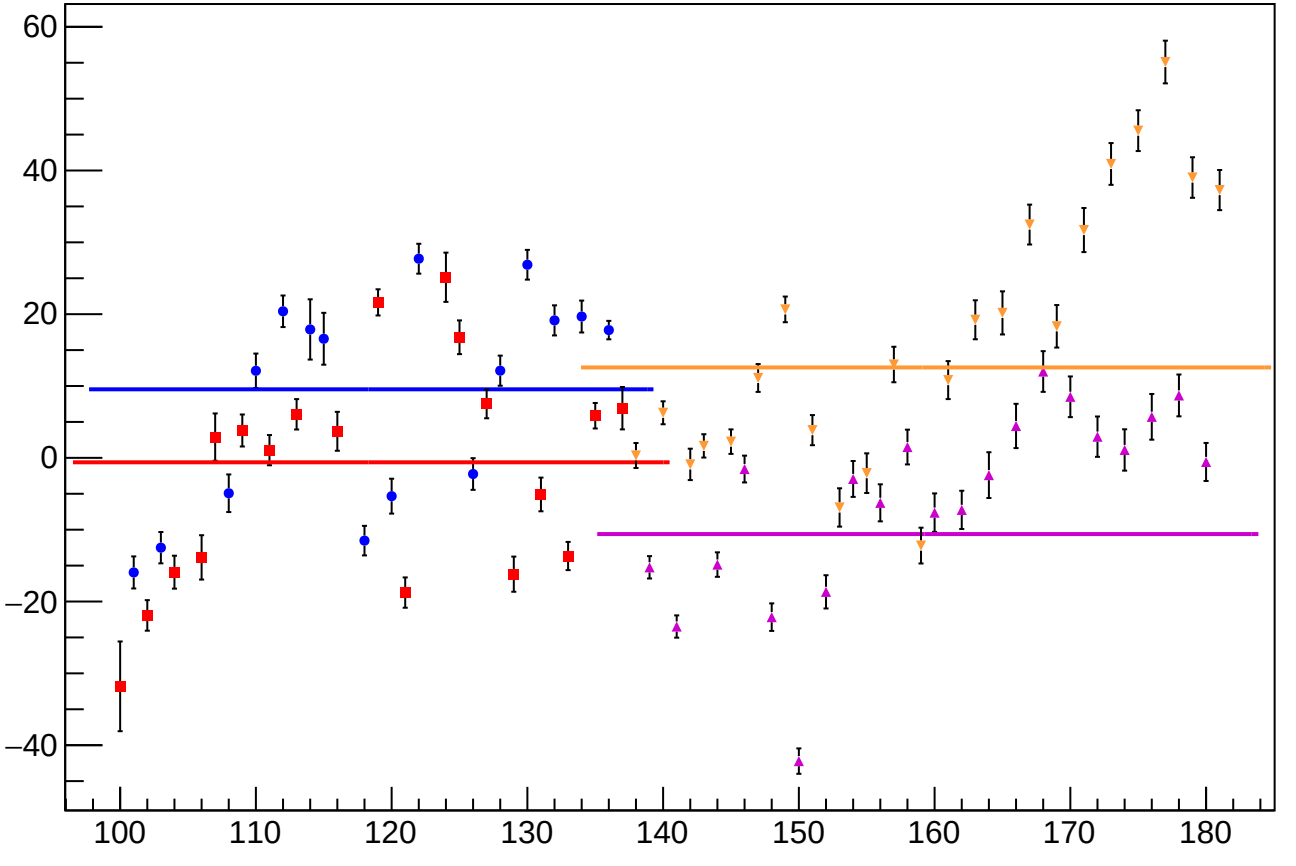
Right: 3097.751+/-0.570 $\chi^2$/NDF: 16508.2/34

In: 3323.362+/-0.478 $\chi^2$/NDF:684260.4/36

Out: 3327.062+/-0.466 $\chi^2$/NDF:760453.5/41

All: 3325.259+/-0.334 $\chi^2$/NDF: 1444744.5/78

# diff_bpm0l01Y_mean vs Slug, Sign Corrected




Right In: 9.540+/-0.541 $\chi^2$/NDF: 698.7/15

Left Out: 12.586+/-0.476 $\chi^2$/NDF:1111.5/22

Right Out: -0.620+/-0.534 $\chi^2$/NDF: 665.8/18

Left In: -10.609+/-0.496 $\chi^2$/NDF:780.2/20

Left: 1.464+/-0.344 $\chi^2$/NDF: 3028.9/43

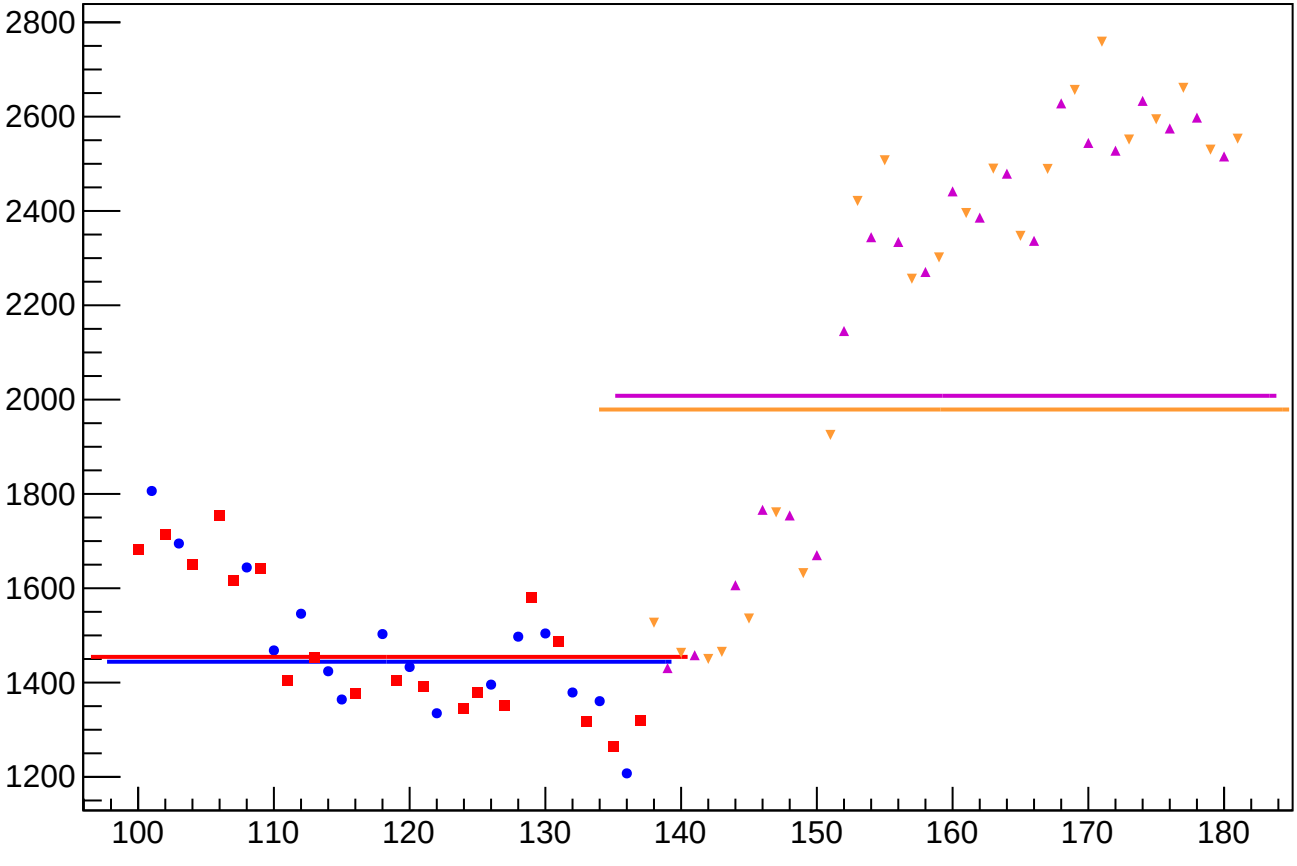
Right: 4.392+/-0.380 $\chi^2$/NDF: 1543.1/34

In: -1.408+/-0.366 $\chi^2$/NDF:2231.8/36

Out: 6.736+/-0.355 $\chi^2$/NDF:2117.9/41

All: 2.780+/-0.255 $\chi^2$/NDF: 4604.7/78

# diff_bpm0l01Y_rms vs Slug, Sign Corrected




Right In: 1444.188+/-0.383 $\chi^2$/NDF: 180147.9/15

Left Out: 1979.002+/-0.337 $\chi^2$/NDF:1975146.6/22

Right Out: 1454.470+/-0.378 $\chi^2$/NDF: 142772.9/18

Left In: 2008.095+/-0.351 $\chi^2$/NDF:1586970.8/20

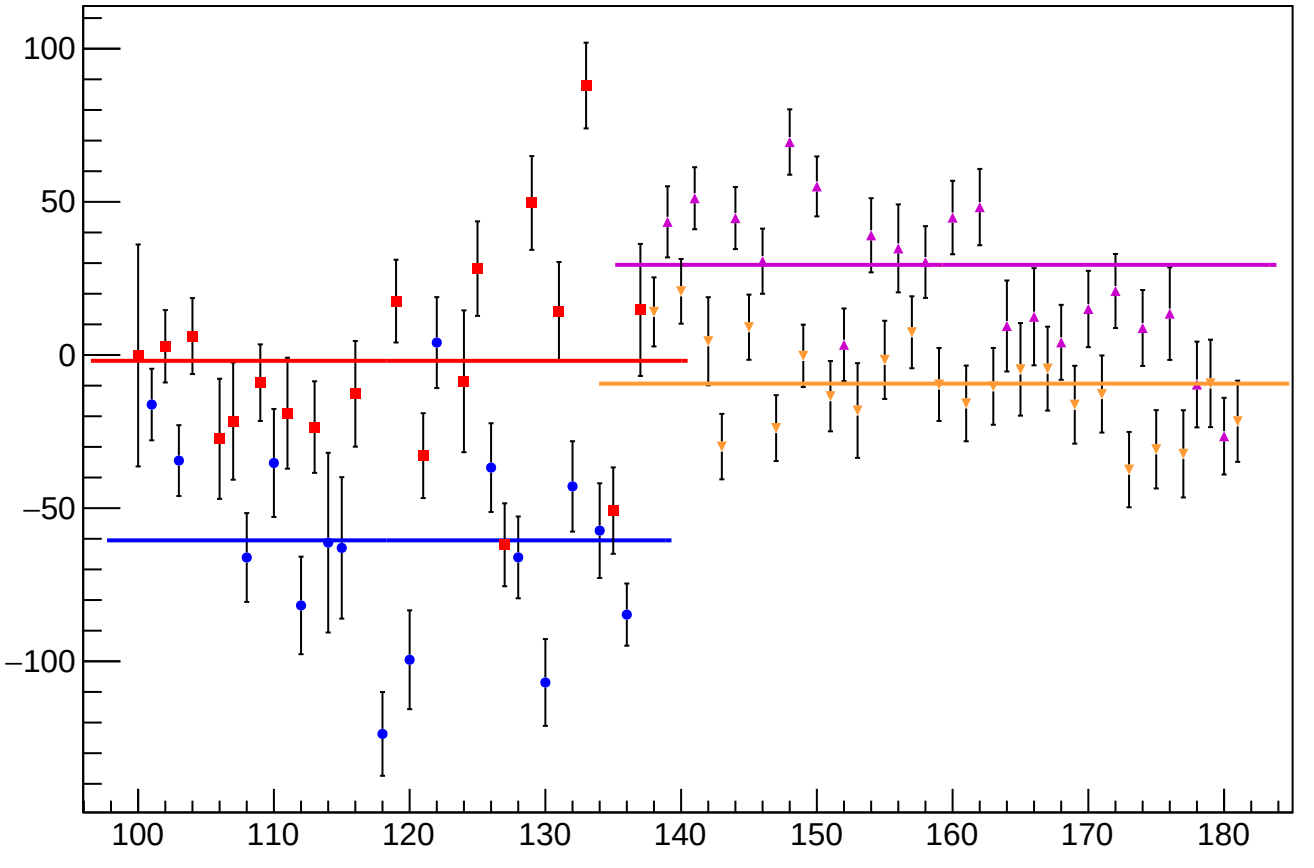
Left: 1992.952+/-0.243 $\chi^2$/NDF: 3565695.4/43

Right: 1449.398+/-0.269 $\chi^2$/NDF: 323286.5/34

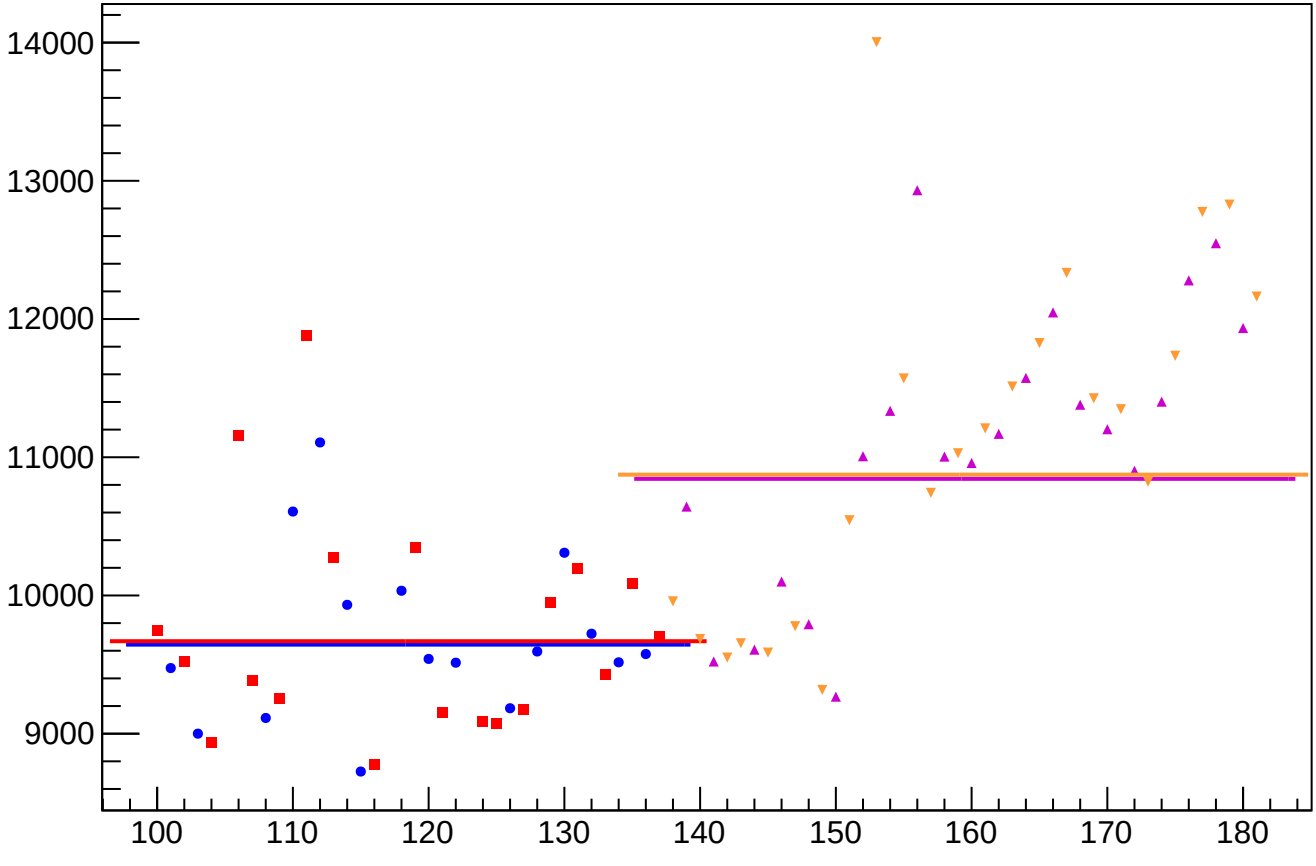
In: 1750.594+/-0.259 $\chi^2$/NDF:2946507.6/36

Out: 1746.652+/-0.251 $\chi^2$/NDF:3192395.7/41

All: 1748.567+/-0.180 $\chi^2$/NDF: 6139022.8/78


diff_bpm0l02X_mean vs Slug, Sign Corrected
100
50
0
−50
−100
100
110
120
130
140
150
160
170
180
Right In: -60.516+/-3.596 χ²/NDF: 90.3/15
Left Out: -9.346+/-2.556 χ²/NDF:37.9/22
Right Out: -1.894+/-3.543 χ²/NDF: 103.8/18
Left In: 29.426+/-2.623 χ²/NDF:79.6/20
Left: 9.532+/-1.831 χ²/NDF: 229.5/43
Right: -30.766+/-2.524 χ²/NDF: 329.0/34
In: -1.813+/-2.119 χ²/NDF:578.2/36
Out: -6.795+/-2.073 χ²/NDF:144.6/41
All: -4.360+/-1.482 χ²/NDF: 725.6/78

# diff_bpm0l02X_rms vs Slug, Sign Corrected




Right In: 9644.396+/-2.543 $\chi^2$/NDF: 44101.6/15

Left Out: 10874.150+/-1.807 $\chi^2$/NDF:413411.4/22

Right Out: 9669.136+/-2.505 $\chi^2$/NDF: 79878.1/18

Left In: 10843.708+/-1.855 $\chi^2$/NDF:282295.4/20

Left: 10859.327+/-1.294 $\chi^2$/NDF: 695845.0/43

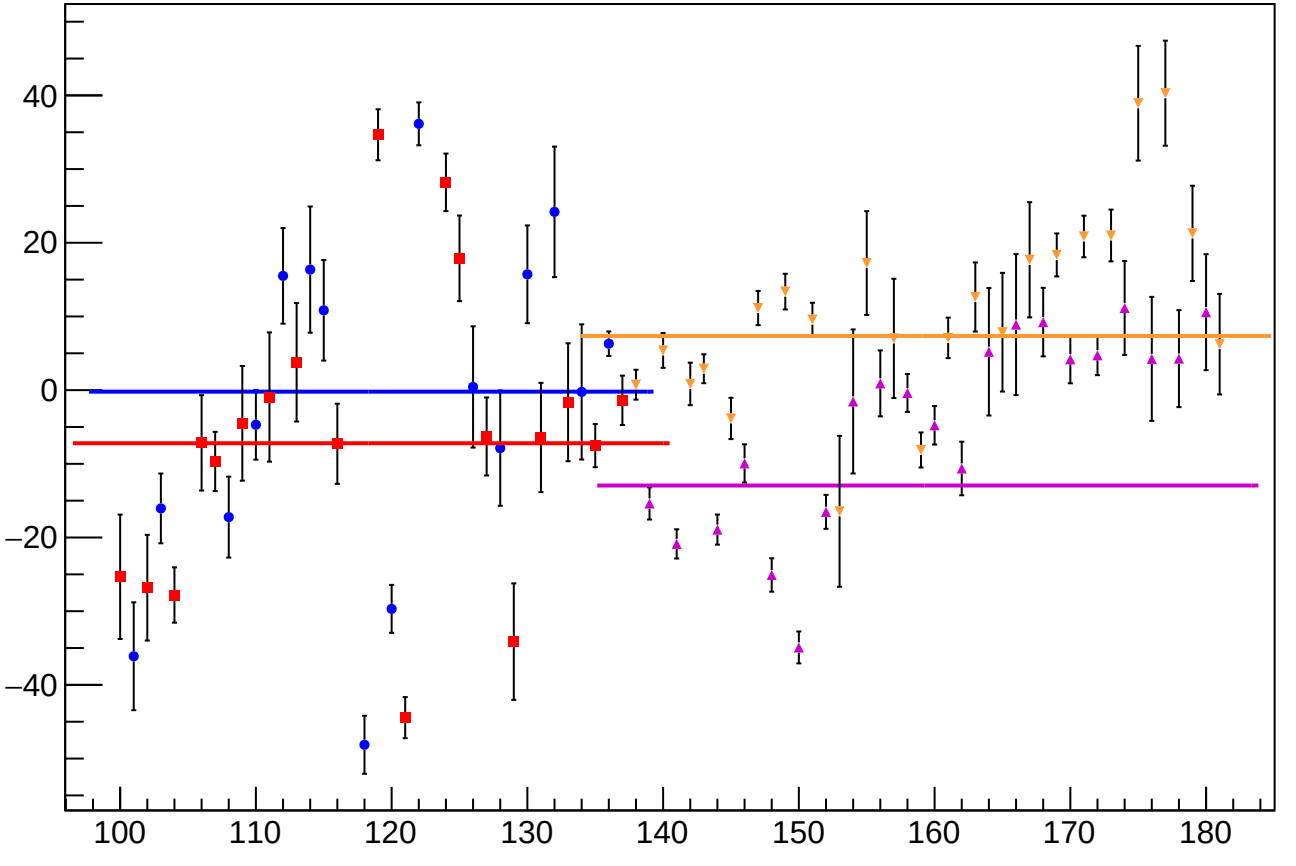
Right: 9656.951+/-1.785 $\chi^2$/NDF: 124027.7/34

In: 10427.157+/-1.499 $\chi^2$/NDF:471571.7/36

Out: 10461.735+/-1.466 $\chi^2$/NDF:645475.4/41

All: 10444.832+/-1.048 $\chi^2$/NDF: 1117319.2/7

# diff_bpm0l02Y_mean vs Slug, Sign Corrected




Right In: -0.206+/-1.045 $\chi^2$/NDF: 473.7/15

Left Out: 7.354+/-0.657 $\chi^2$/NDF:194.8/22

Right Out: -7.206+/-1.074 $\chi^2$/NDF: 485.6/18

Left In: -12.945+/-0.665 $\chi^2$/NDF:343.5/20

Left: -2.682+/-0.467 $\chi^2$/NDF: 1009.7/43

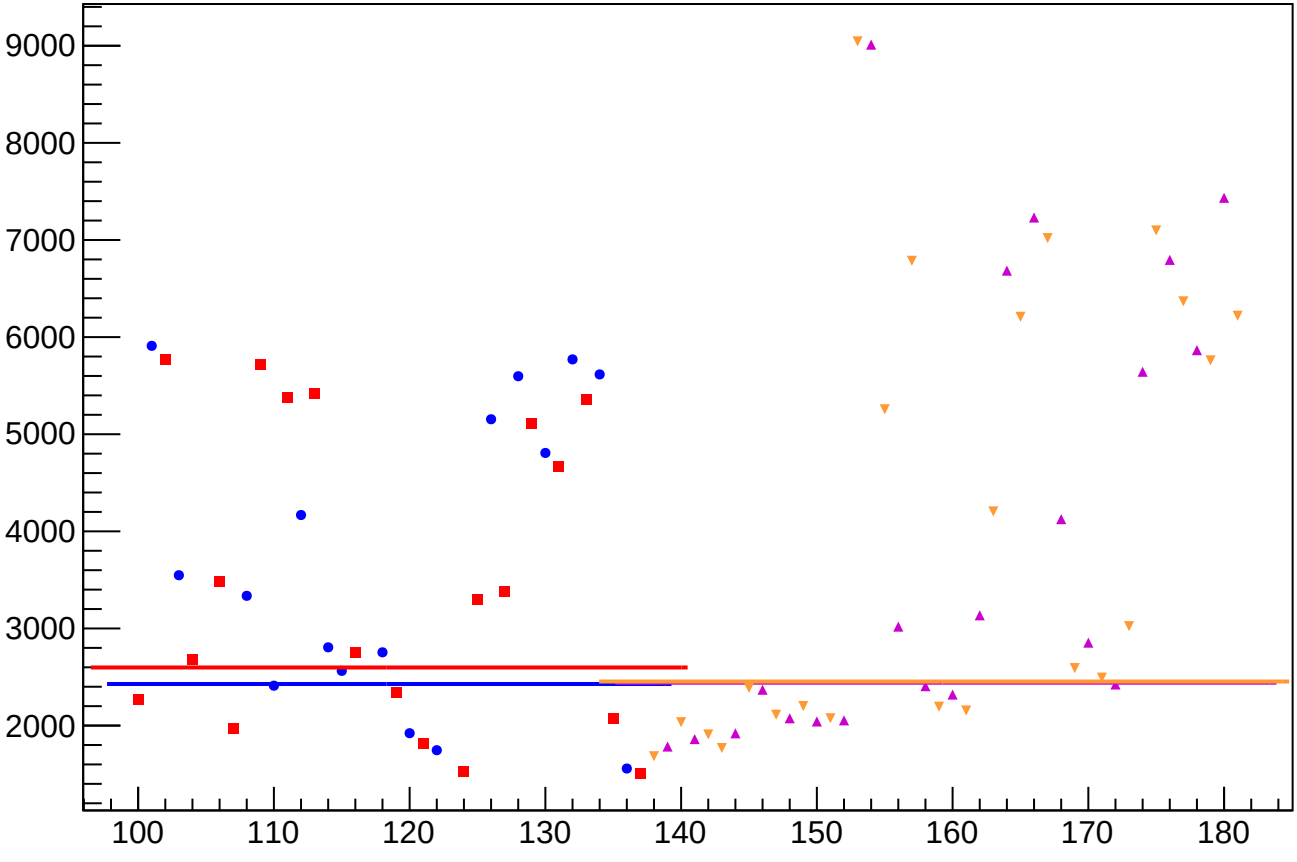
Right: -3.613+/-0.749 $\chi^2$/NDF: 981.2/34

In: -9.276+/-0.561 $\chi^2$/NDF:922.9/36

Out: 3.384+/-0.561 $\chi^2$/NDF:814.2/41

All: -2.943+/-0.397 $\chi^2$/NDF: 1991.9/78

# diff_bpm0l02Y_rms vs Slug, Sign Corrected




Right In: 2428.080+/-0.739 $\chi^2$/NDF: 2815335.2/15

Left Out: 2453.813+/-0.465 $\chi^2$/NDF:6455228.0/22

Right Out: 2598.321+/-0.759 $\chi^2$/NDF: 2514932.7/18

Left In: 2441.394+/-0.470 $\chi^2$/NDF:5343400.9/20

Left: 2447.673+/-0.331 $\chi^2$/NDF: 11798981.7/43

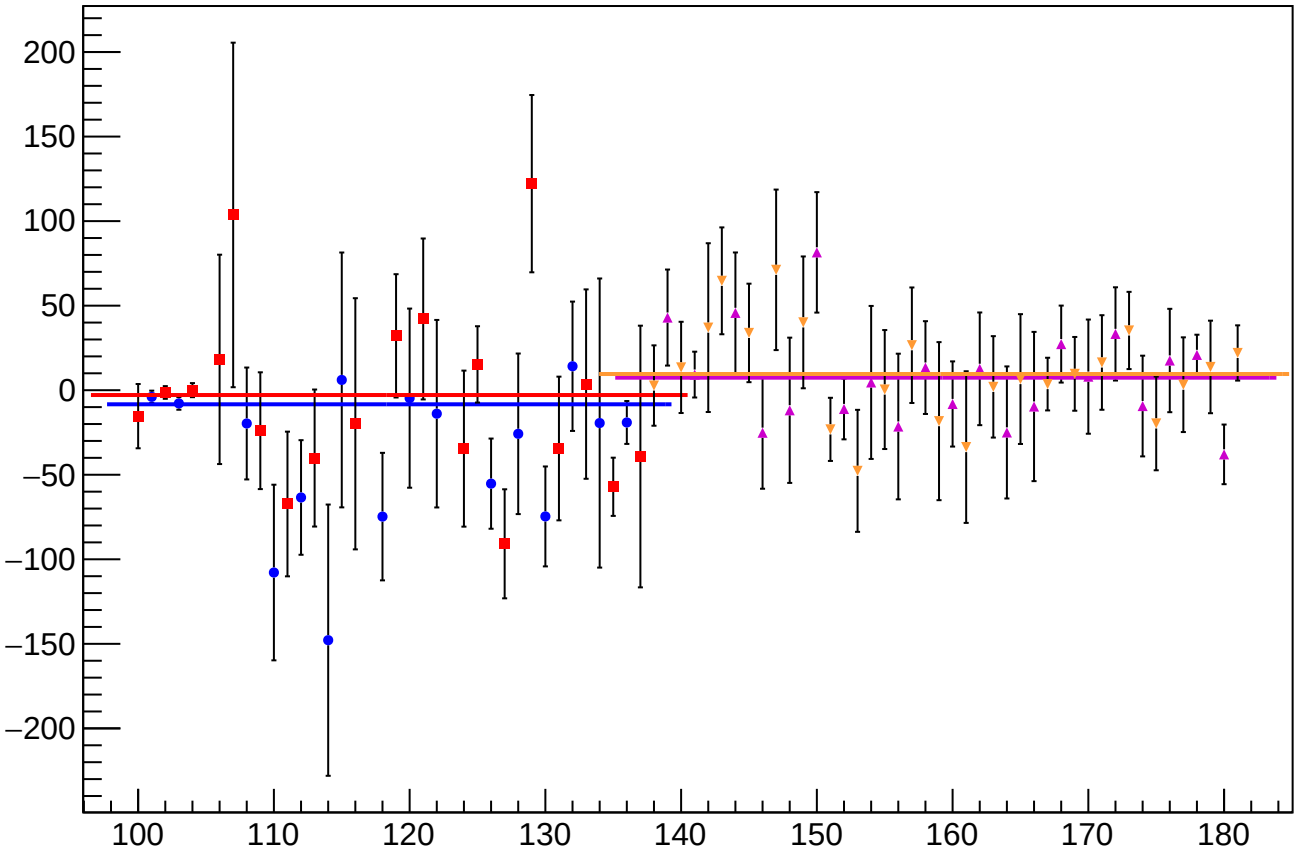
Right: 2510.930+/-0.530 $\chi^2$/NDF: 5356082.2/34

In: 2437.560+/-0.397 $\chi^2$/NDF:8158967.1/36

Out: 2493.219+/-0.396 $\chi^2$/NDF:8996513.7/41

All: 2465.405+/-0.280 $\chi^2$/NDF: 17165331.0/7

# diff_bpm0l03X_mean vs Slug, Sign Corrected




Right In: -8.332+/-2.499 $\chi^2$/NDF: 23.4/15

Left Out: 9.576+/-5.594 $\chi^2$/NDF:17.0/22

Right Out: -2.848+/-2.640 $\chi^2$/NDF: 32.6/18

Left In: 7.407+/-5.318 $\chi^2$/NDF:21.0/20

Left: 8.436+/-3.854 $\chi^2$/NDF: 38.0/43

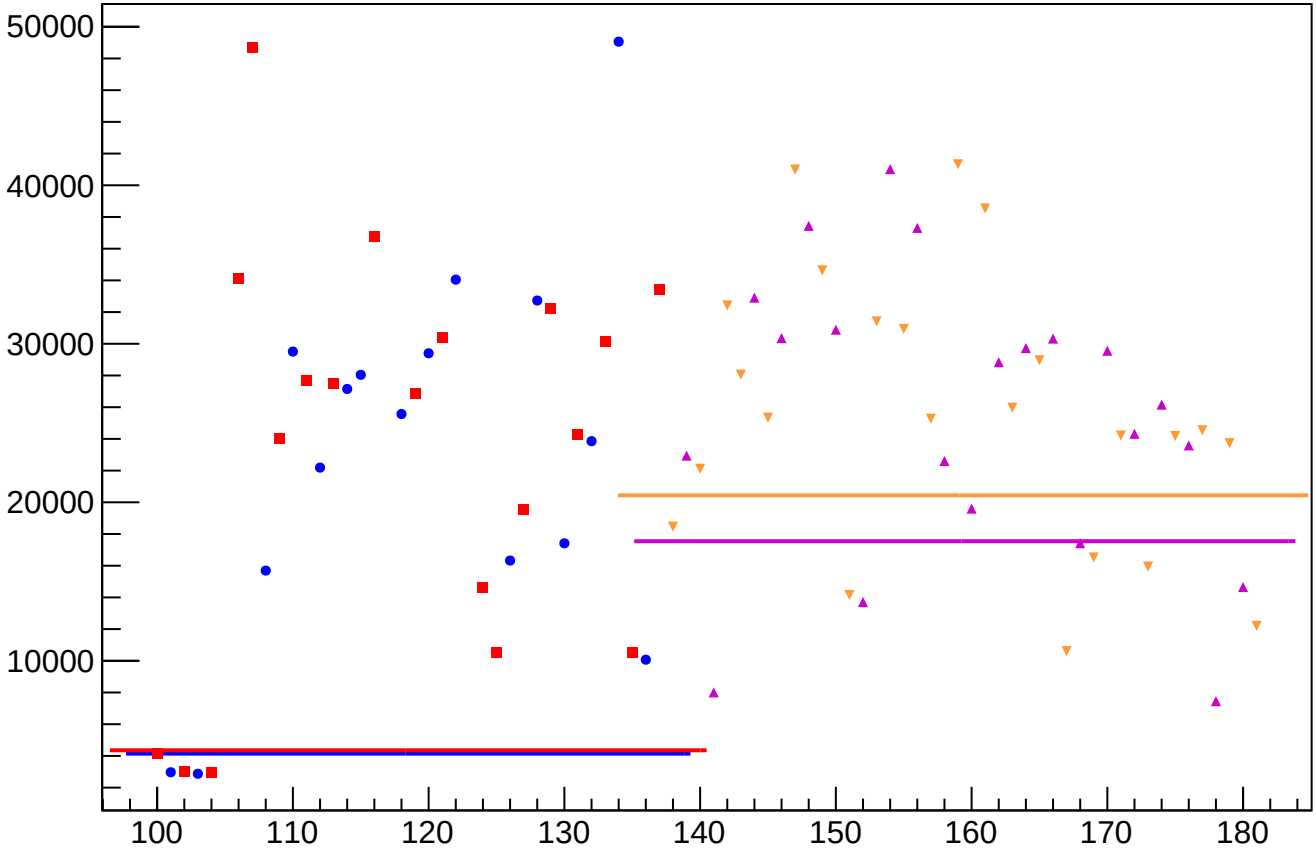
Right: -5.740+/-1.815 $\chi^2$/NDF: 58.3/34

In: -5.485+/-2.262 $\chi^2$/NDF:51.6/36

Out: -0.586+/-2.387 $\chi^2$/NDF:53.6/41

All: -3.167+/-1.642 $\chi^2$/NDF: 107.4/78

# diff_bpm0l03X_rms vs Slug, Sign Corrected




Right In: 4145.795+/-1.767 $\chi^2$/NDF: 6836950.5/15

Left Out: 20440.443+/-3.956 $\chi^2$/NDF:4063310.7/22

Right Out: 4354.437+/-1.866 $\chi^2$/NDF: 7624762.5/18

Left In: 17545.151+/-3.760 $\chi^2$/NDF:6269459.4/20

Left: 18919.447+/-2.725 $\chi^2$/NDF: 10614193.0/43

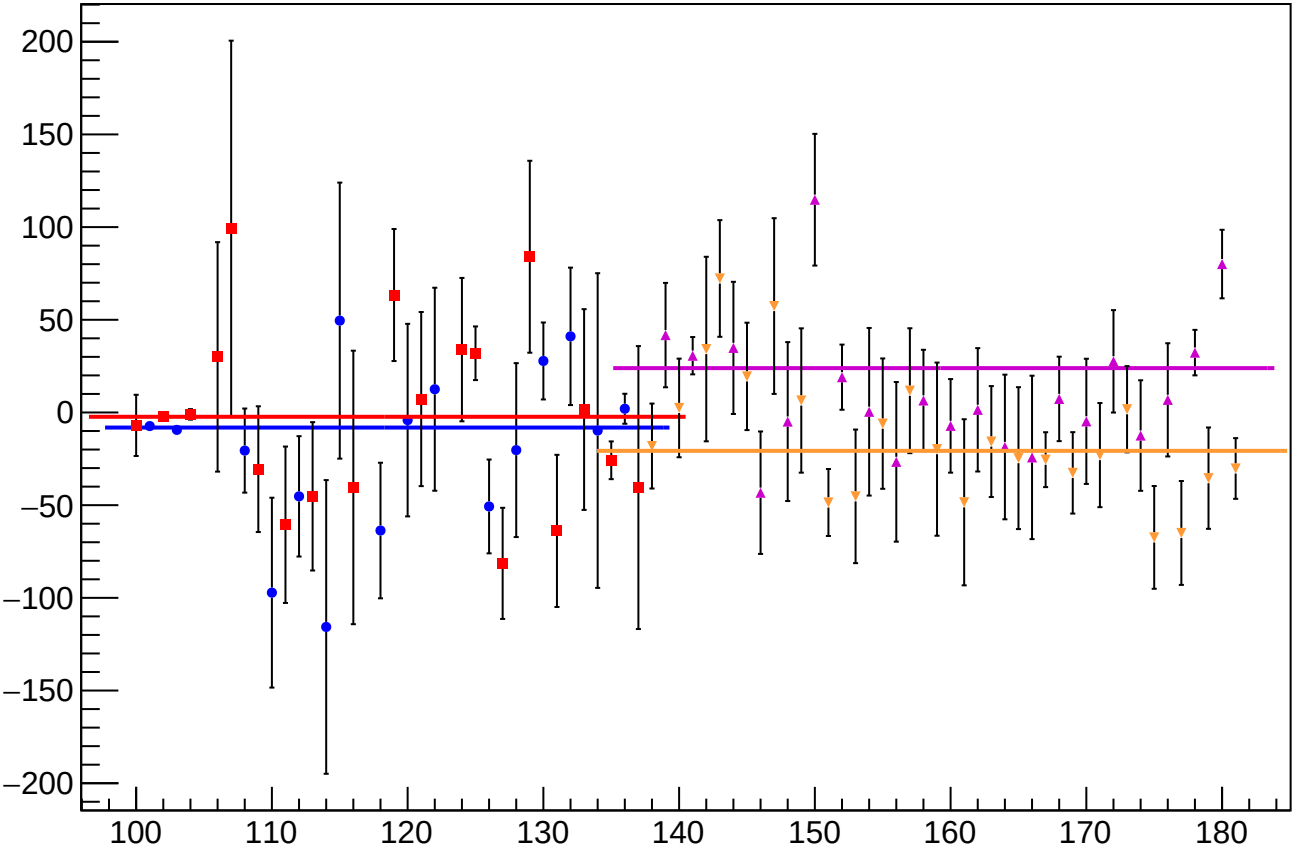
Right: 4244.429+/-1.283 $\chi^2$/NDF: 14468301.6/34

In: 6570.275+/-1.599 $\chi^2$/NDF:23507302.0/36

Out: 7283.498+/-1.688 $\chi^2$/NDF:25213229.0/41

All: 6907.693+/-1.161 $\chi^2$/NDF: 48814599.9/7

# diff_bpm0l03Y_mean vs Slug, Sign Corrected




Right In: -8.132+/-1.720 $\chi^2$/NDF: 19.1/15

Left Out: -20.702+/-5.530 $\chi^2$/NDF:27.5/22

Right Out: -2.325+/-1.822 $\chi^2$/NDF: 33.1/18

Left In: 23.931+/-5.044 $\chi^2$/NDF:31.3/20

Left: 3.662+/-3.727 $\chi^2$/NDF: 94.4/43

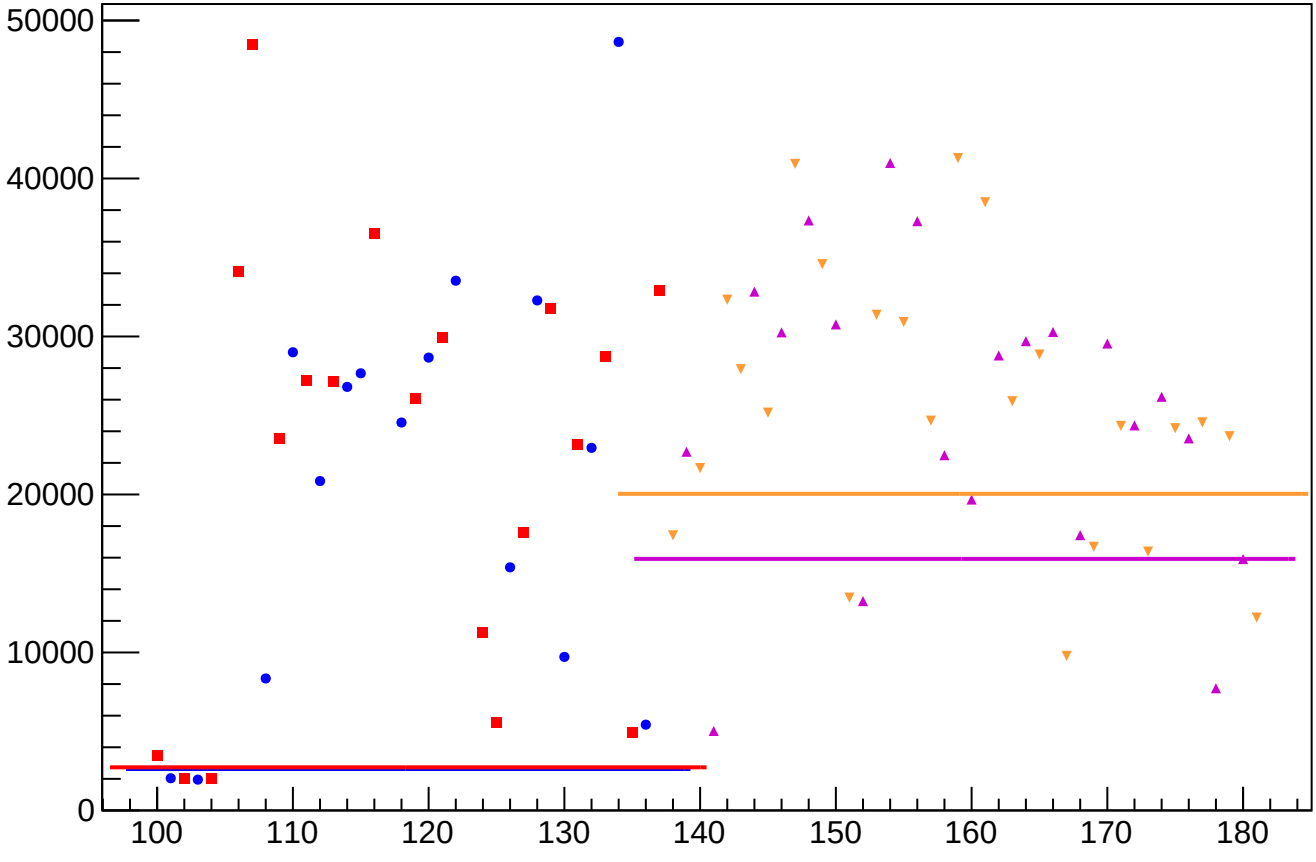
Right: -5.394+/-1.251 $\chi^2$/NDF: 57.5/34

In: -4.791+/-1.628 $\chi^2$/NDF:86.6/36

Out: -4.124+/-1.730 $\chi^2$/NDF:70.5/41

All: -4.478+/-1.186 $\chi^2$/NDF: 157.2/78

# diff_bpm0l03Y_rms vs Slug, Sign Corrected




Right In: 2626.430+/-1.216 $\chi^2$/NDF: 6780884.6/15

Left Out: 20041.180+/-3.910 $\chi^2$/NDF:4332074.2/22

Right Out: 2730.235+/-1.288 $\chi^2$/NDF: 7985984.4/18

Left In: 15923.574+/-3.567 $\chi^2$/NDF:7983424.1/20

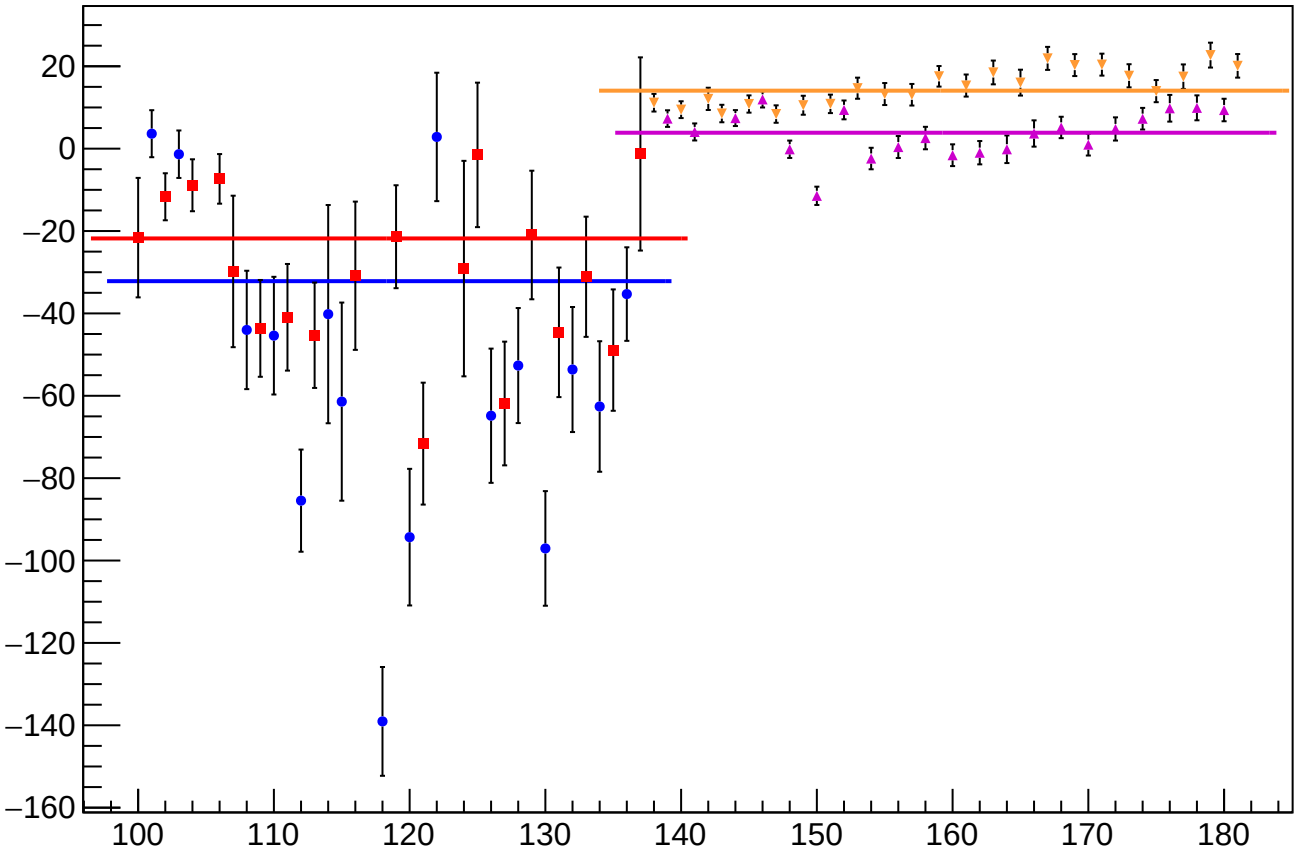
Left: 17793.472+/-2.635 $\chi^2$/NDF: 12920797.5/43

Right: 2675.367+/-0.884 $\chi^2$/NDF: 14770301.6/34

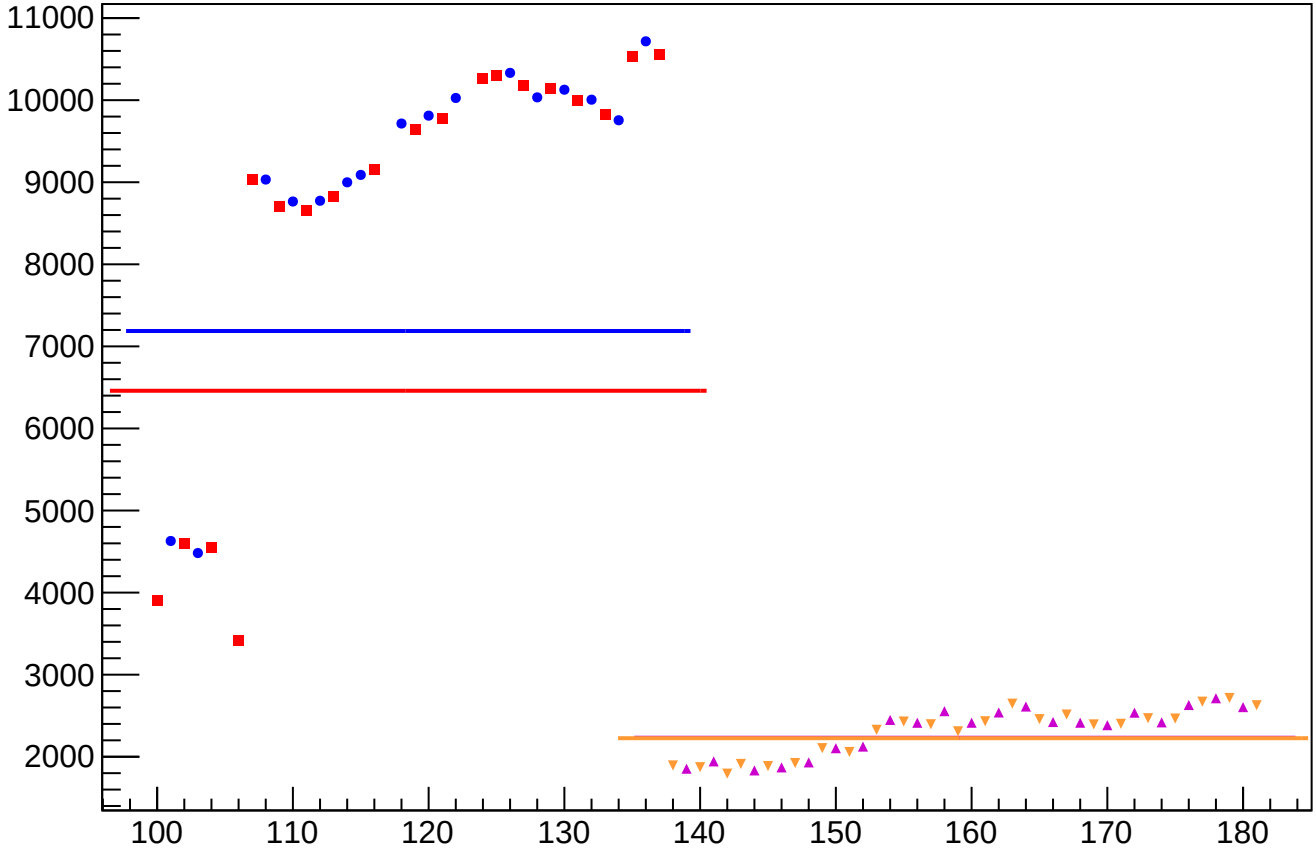
In: 4012.207+/-1.151 $\chi^2$/NDF:27215979.7/36

Out: 4424.842+/-1.223 $\chi^2$/NDF:29998182.9/41

All: 4206.013+/-0.838 $\chi^2$/NDF: 57274489.1/7


diff_bpm0l04X_mean vs Slug, Sign Corrected
20
0
−20
−40
−60
−80
−100
−120
−140
−160
100
110
120
130
140
150
160
170
180
Right In: -32.171+/-2.842 χ²/NDF: 207.8/15
Left Out: 14.078+/-0.525 χ²/NDF:68.0/22
Right Out: -21.801+/-2.557 χ²/NDF: 49.1/18
Left In: 3.863+/-0.542 χ²/NDF:111.2/20
Left: 9.141+/-0.377 χ²/NDF: 362.5/43
Right: -26.441+/-1.901 χ²/NDF: 264.2/34
In: 2.597+/-0.533 χ²/NDF:474.1/36
Out: 12.630+/-0.514 χ²/NDF:306.0/41
All: 7.794+/-0.370 χ²/NDF: 963.8/78

# diff_bpm0l04X_rms vs Slug, Sign Corrected




Right In: 7187.494+/-2.009 $\chi^2$/NDF: 1705887.0/15

Left Out: 2225.985+/-0.371 $\chi^2$/NDF:609083.9/22

Right Out: 6459.323+/-1.808 $\chi^2$/NDF: 2276337.9/18

Left In: 2231.620+/-0.384 $\chi^2$/NDF:598383.3/20

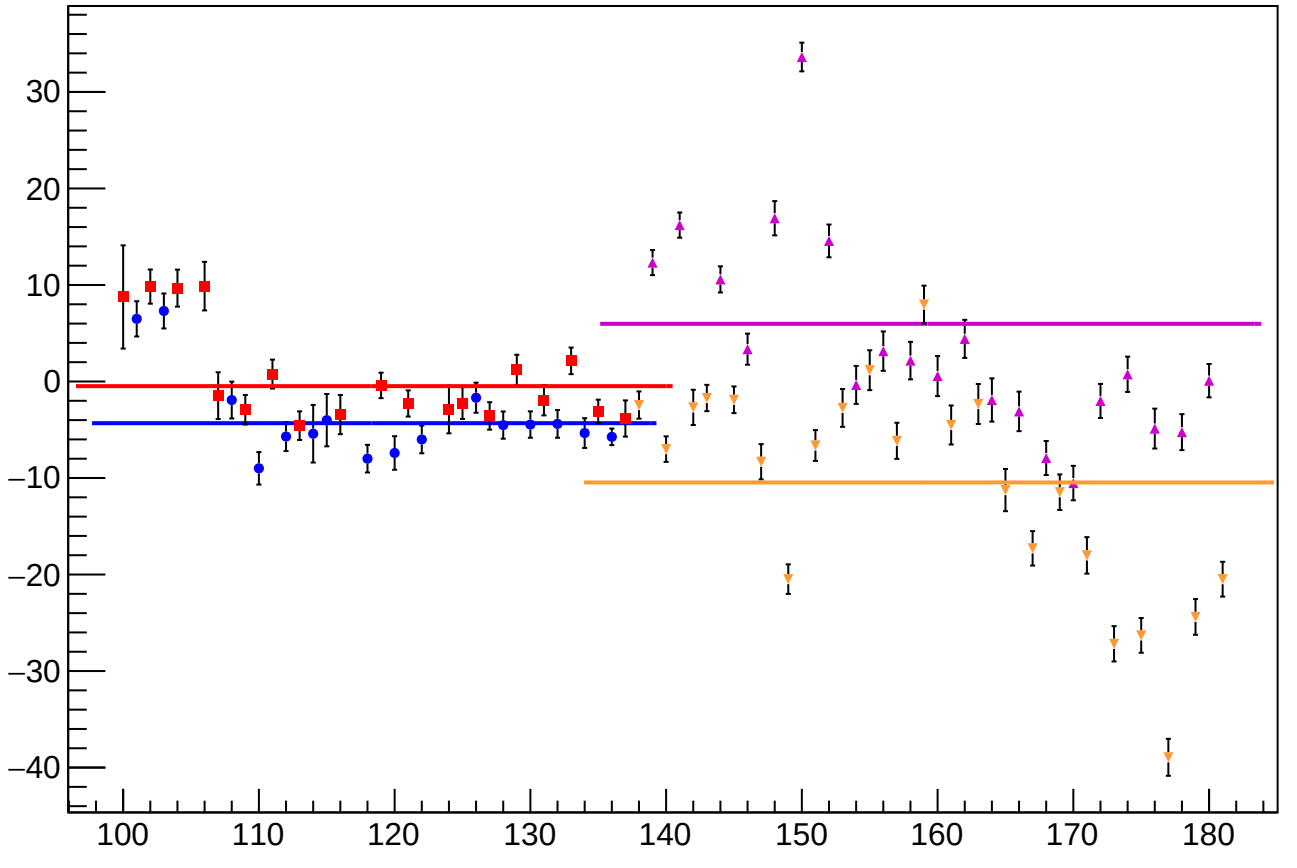
Left: 2228.708+/-0.267 $\chi^2$/NDF: 1207578.7/43

Right: 6785.150+/-1.344 $\chi^2$/NDF: 4054781.5/34

In: 2405.796+/-0.377 $\chi^2$/NDF:8173052.0/36

Out: 2396.907+/-0.363 $\chi^2$/NDF:8144682.3/41

All: 2401.191+/-0.262 $\chi^2$/NDF: 16318022.7/7




Right In: -4.319+/-0.380 $\chi^2$/NDF: 103.7/15

Left Out: -10.459+/-0.362 $\chi^2$/NDF:852.4/22

Right Out: -0.481+/-0.379 $\chi^2$/NDF: 117.2/18

Left In: 5.978+/-0.377 $\chi^2$/NDF:817.0/20

Left: -2.586+/-0.261 $\chi^2$/NDF: 2659.4/43

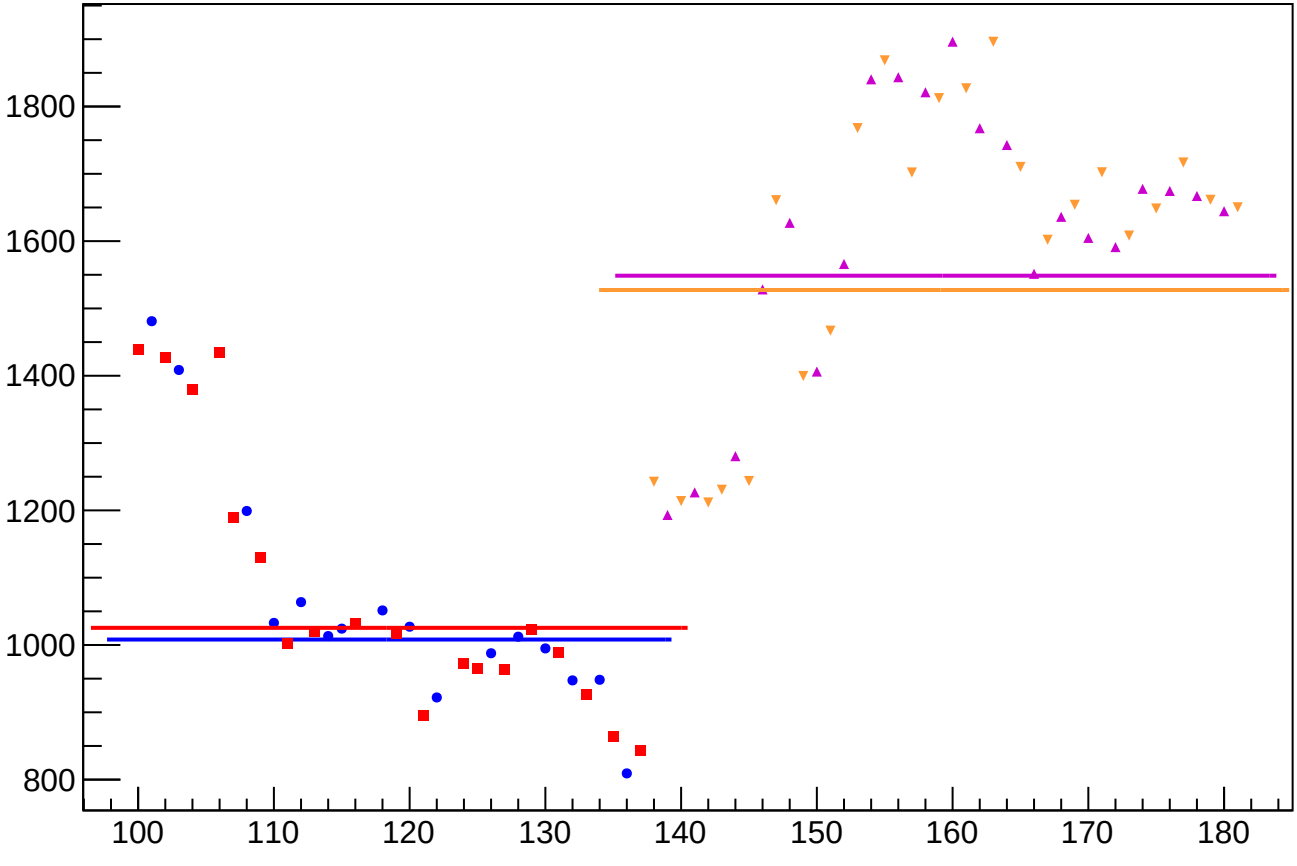
Right: -2.394+/-0.268 $\chi^2$/NDF: 272.1/34

In: 0.866+/-0.268 $\chi^2$/NDF:1290.9/36

Out: -5.701+/-0.261 $\chi^2$/NDF:1332.9/41

All: -2.493+/-0.187 $\chi^2$/NDF: 2931.8/78

# diff_bpm0l04Y_rms vs Slug, Sign Corrected




Right In: 1008.116+/-0.269 $\chi^2$/NDF: 378836.2/15

Left Out: 1527.410+/-0.256 $\chi^2$/NDF:808472.0/22

Right Out: 1025.486+/-0.268 $\chi^2$/NDF: 345991.2/18

Left In: 1548.652+/-0.267 $\chi^2$/NDF:633583.3/20

Left: 1537.584+/-0.185 $\chi^2$/NDF: 1445362.0/43

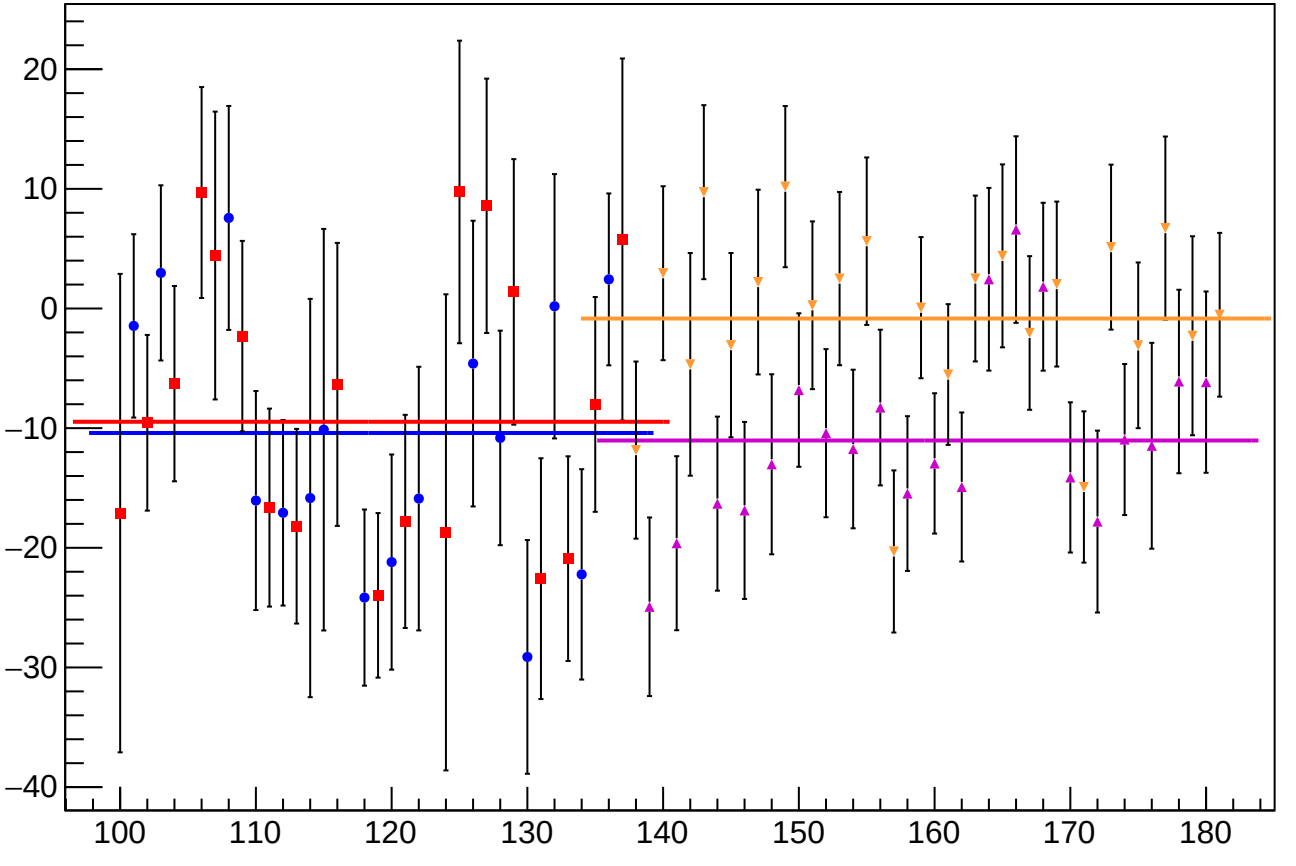
Right: 1016.826+/-0.190 $\chi^2$/NDF: 726925.8/34

In: 1280.287+/-0.189 $\chi^2$/NDF:3052829.6/36

Out: 1288.049+/-0.185 $\chi^2$/NDF:2992742.7/41

All: 1284.257+/-0.132 $\chi^2$/NDF: 6046433.2/78

# diff_bpm0l05X_mean vs Slug, Sign Corrected




Right In: -10.404+/-2.280 $\chi^2$/NDF: 24.6/15

Left Out: -0.838+/-1.465 $\chi^2$/NDF:25.4/22

Right Out: -9.467+/-2.191 $\chi^2$/NDF: 25.4/18

Left In: -11.032+/-1.523 $\chi^2$/NDF:21.1/20

Left: -5.739+/-1.056 $\chi^2$/NDF: 69.8/43

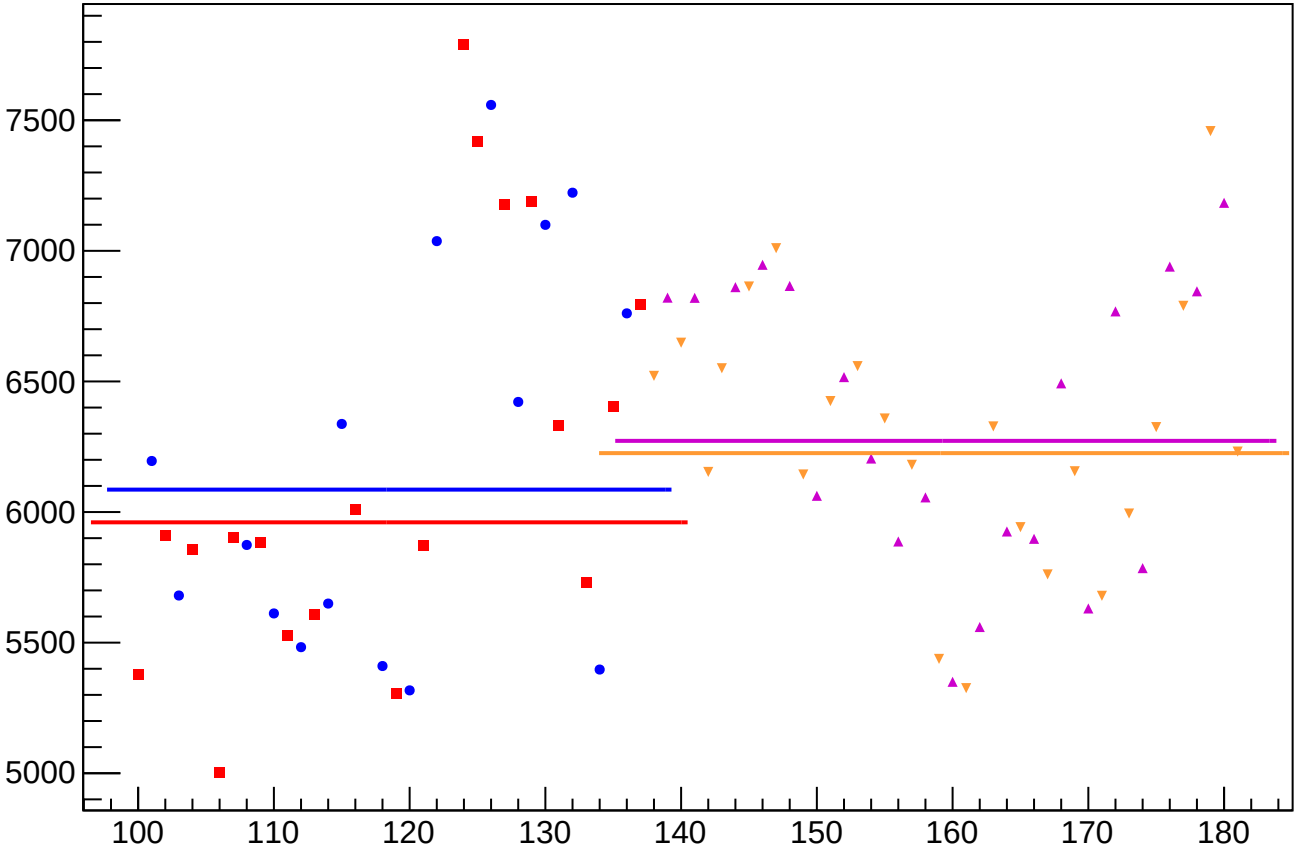
Right: -9.917+/-1.580 $\chi^2$/NDF: 50.1/34

In: -10.838+/-1.266 $\chi^2$/NDF:45.8/36

Out: -3.505+/-1.218 $\chi^2$/NDF:61.5/41

All: -7.029+/-0.878 $\chi^2$/NDF: 124.7/78

# diff_bpm0l05X_rms vs Slug, Sign Corrected




Right In: 6085.873+/-1.612 $\chi^2$/NDF: 179118.8/15

Left Out: 6225.573+/-1.036 $\chi^2$/NDF:224150.0/22

Right Out: 5960.613+/-1.549 $\chi^2$/NDF: 162772.6/18

Left In: 6272.521+/-1.077 $\chi^2$/NDF:258175.8/20

Left: 6248.144+/-0.747 $\chi^2$/NDF: 483312.6/43

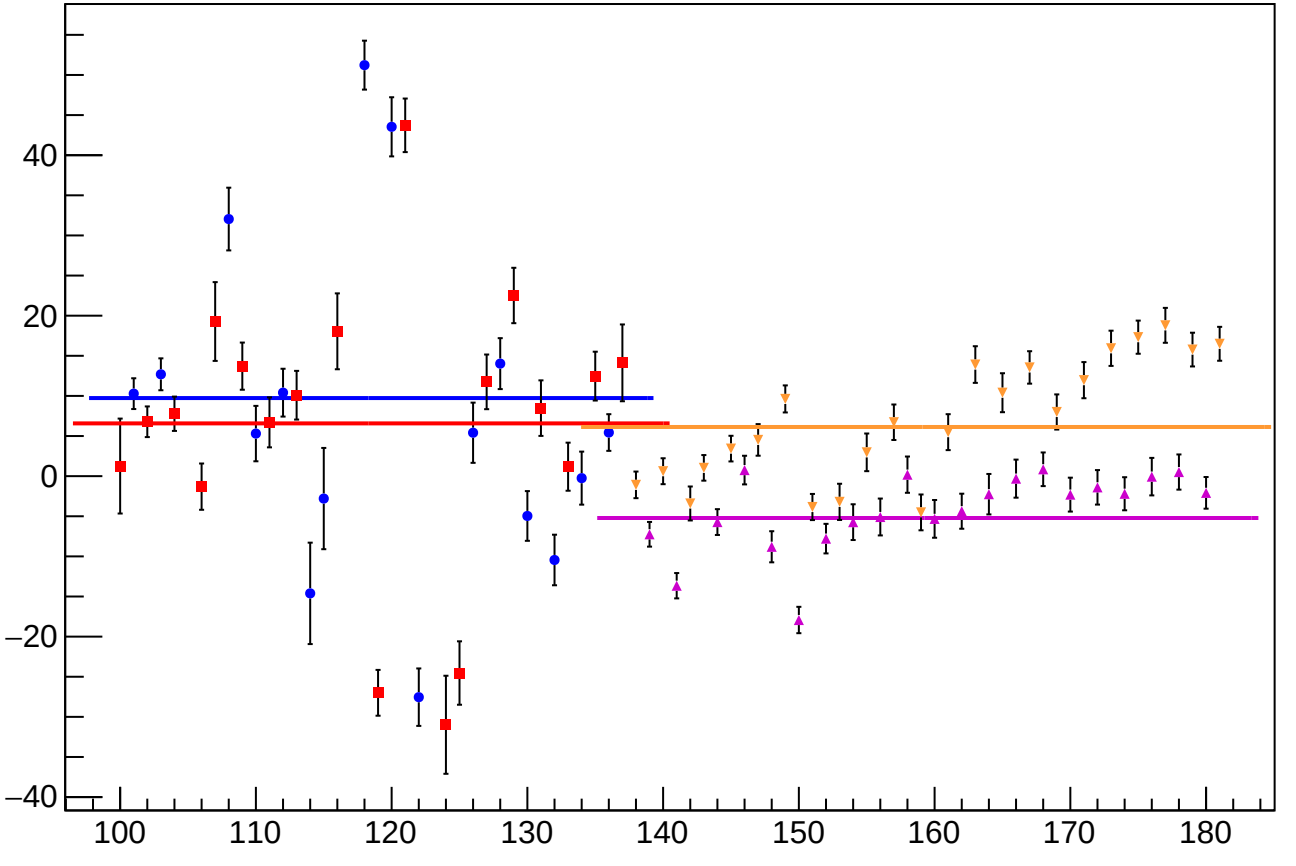
Right: 6020.747+/-1.117 $\chi^2$/NDF: 345029.9/34

In: 6214.934+/-0.896 $\chi^2$/NDF:446562.3/36

Out: 6143.670+/-0.861 $\chi^2$/NDF:407131.9/41

All: 6177.916+/-0.621 $\chi^2$/NDF: 856983.9/78

# diff_bpm0l05Y_mean vs Slug, Sign Corrected




Right In: 9.733+/-0.755 $\chi^2$/NDF: 512.4/15

Left Out: 6.128+/-0.414 $\chi^2$/NDF:312.1/22

Right Out: 6.576+/-0.730 $\chi^2$/NDF: 423.8/18

Left In: -5.215+/-0.434 $\chi^2$/NDF:148.2/20

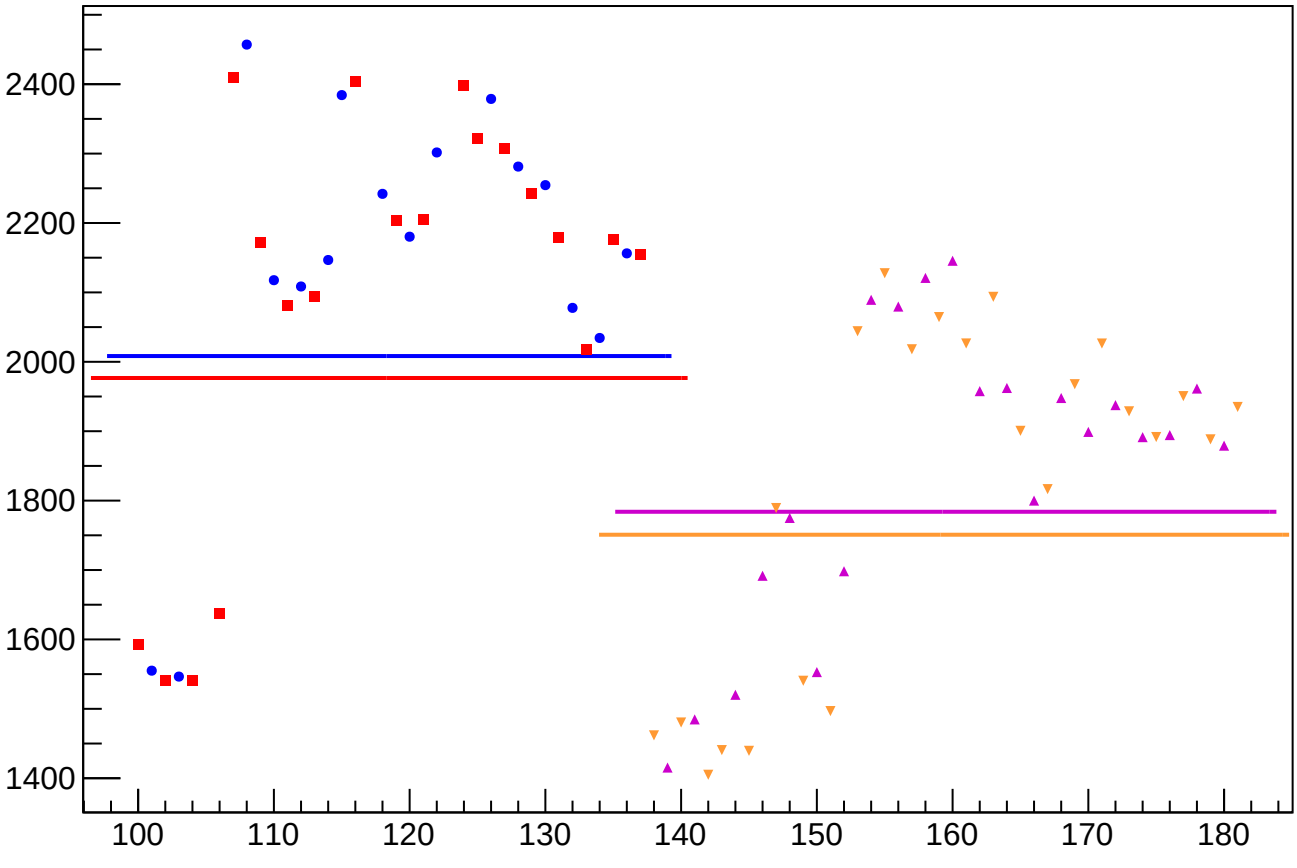
Left: 0.721+/-0.299 $\chi^2$/NDF: 818.5/43

Right: 8.102+/-0.525 $\chi^2$/NDF: 945.2/34

In: -1.507+/-0.376 $\chi^2$/NDF:955.4/36

Out: 6.237+/-0.360 $\chi^2$/NDF:736.2/41

All: 2.533+/-0.260 $\chi^2$/NDF: 1912.8/78




Right In: 2008.296+/-0.534 $\chi^2$/NDF: 344387.2/15

Left Out: 1750.844+/-0.293 $\chi^2$/NDF:753979.9/22

Right Out: 1976.677+/-0.516 $\chi^2$/NDF: 365375.1/18

Left In: 1783.925+/-0.307 $\chi^2$/NDF:530667.5/20

Left: 1766.613+/-0.212 $\chi^2$/NDF: 1290738.8/43

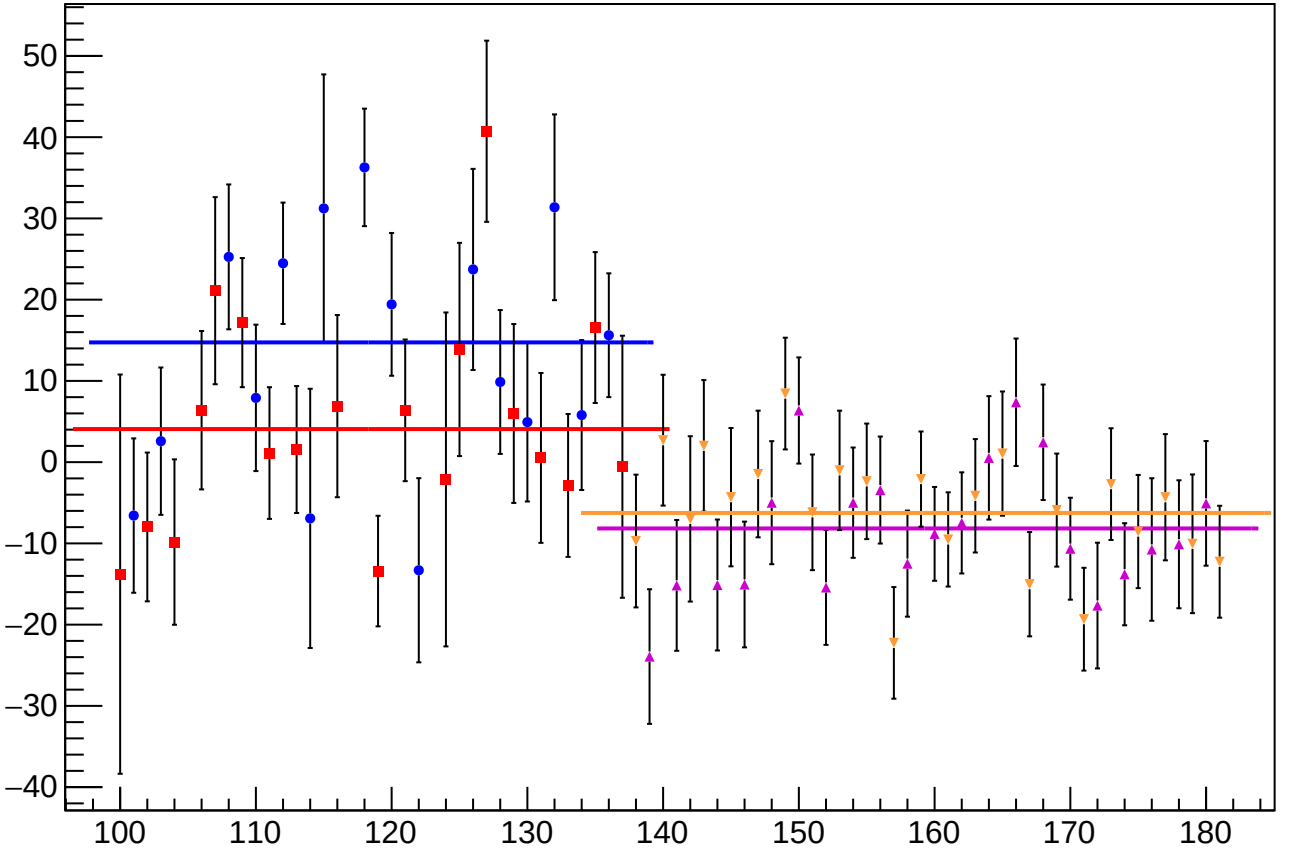
Right: 1991.963+/-0.371 $\chi^2$/NDF: 711574.8/34

In: 1839.589+/-0.266 $\chi^2$/NDF:1007892.7/36

Out: 1805.736+/-0.255 $\chi^2$/NDF:1264106.7/41

All: 1821.929+/-0.184 $\chi^2$/NDF: 2280455.9/78

# diff_bpm0l06X_mean vs Slug, Sign Corrected




Right In: 14.739+/-2.358 $\chi^2$/NDF: 33.5/15

Left Out: -6.251+/-1.498 $\chi^2$/NDF:23.0/22

Right Out: 4.072+/-2.274 $\chi^2$/NDF: 30.2/18

Left In: -8.161+/-1.554 $\chi^2$/NDF:23.5/20

Left: -7.171+/-1.079 $\chi^2$/NDF: 47.3/43

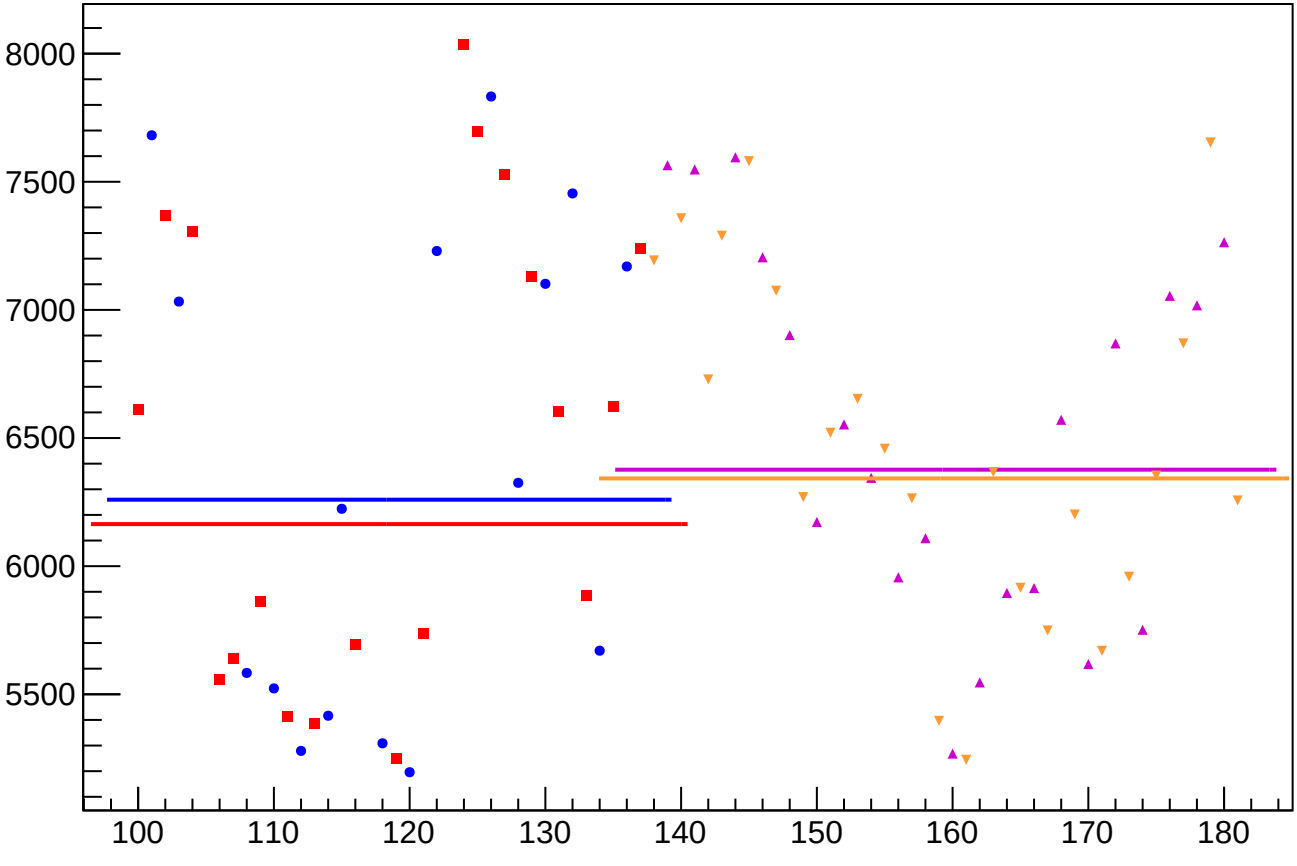
Right: 9.212+/-1.637 $\chi^2$/NDF: 74.3/34

In: -1.223+/-1.298 $\chi^2$/NDF:122.8/36

Out: -3.126+/-1.251 $\chi^2$/NDF:67.6/41

All: -2.209+/-0.901 $\chi^2$/NDF: 191.5/78

# diff_bpm0l06X_rms vs Slug, Sign Corrected




Right In: 6259.416+/-1.667 $\chi^2$/NDF: 308606.8/15

Left Out: 6342.430+/-1.059 $\chi^2$/NDF:382951.2/22

Right Out: 6164.140+/-1.608 $\chi^2$/NDF: 265058.6/18

Left In: 6376.495+/-1.099 $\chi^2$/NDF:411294.8/20

Left: 6358.838+/-0.763 $\chi^2$/NDF: 794743.9/43

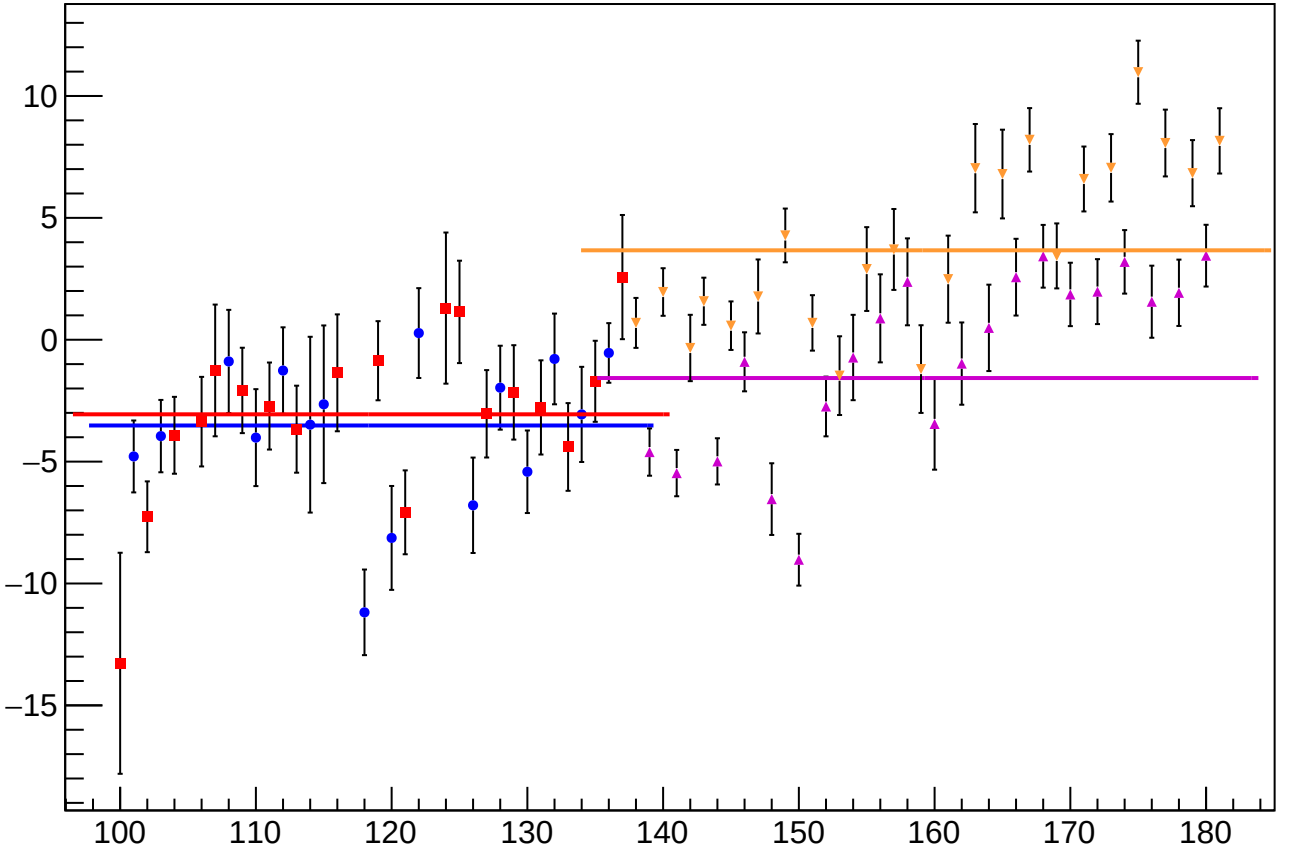
Right: 6210.053+/-1.157 $\chi^2$/NDF: 575357.6/34

In: 6341.024+/-0.918 $\chi^2$/NDF:723339.5/36

Out: 6288.451+/-0.885 $\chi^2$/NDF:656583.7/41

All: 6313.777+/-0.637 $\chi^2$/NDF: 1381624.5/78

# diff_bpm0l06Y_mean vs Slug, Sign Corrected




Right In: -3.518+/-0.452 $\chi^2$/NDF: 45.1/15

Left Out: 3.669+/-0.273 $\chi^2$/NDF:149.6/22

Right Out: -3.059+/-0.438 $\chi^2$/NDF: 34.8/18

Left In: -1.571+/-0.286 $\chi^2$/NDF:187.0/20

Left: 1.169+/-0.197 $\chi^2$/NDF: 512.5/43

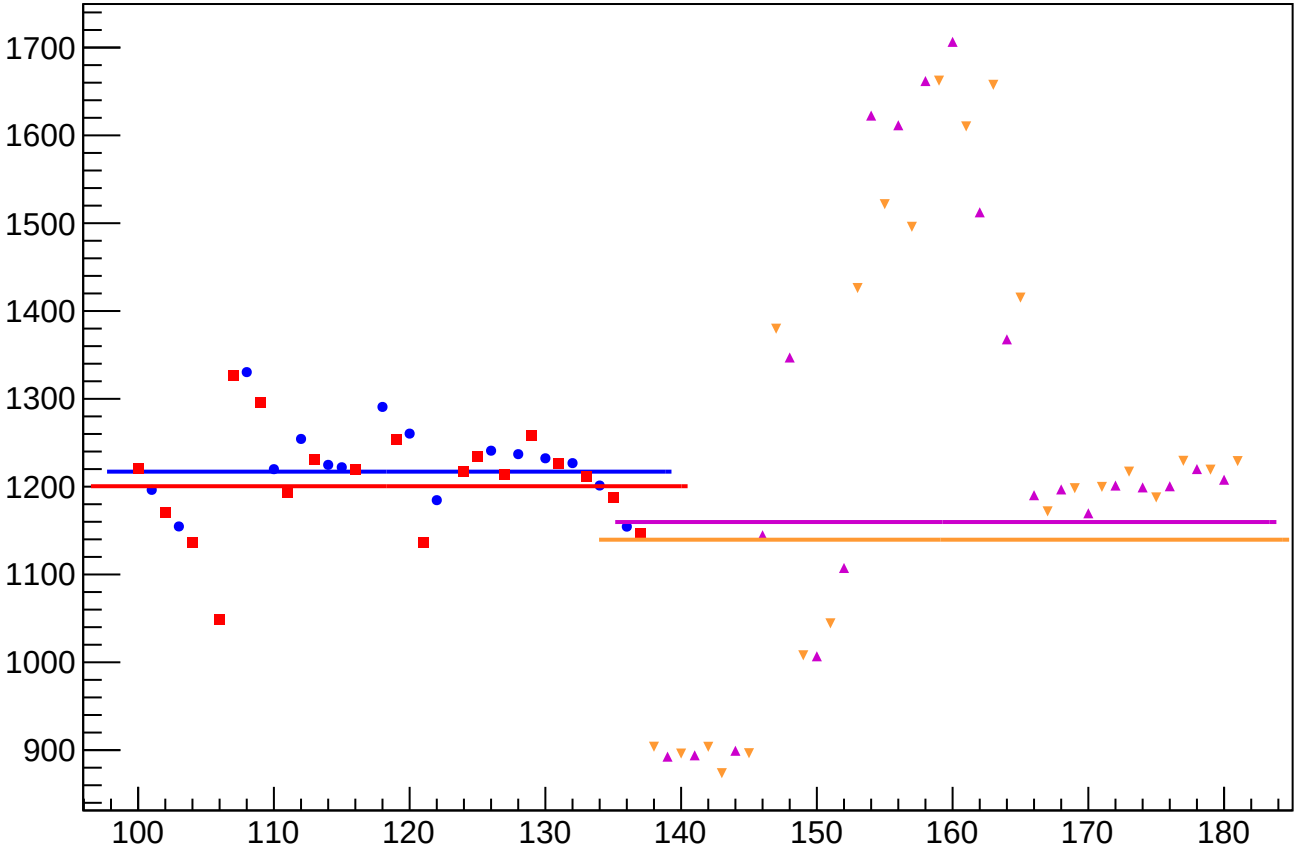
Right: -3.281+/-0.315 $\chi^2$/NDF: 80.4/34

In: -2.126+/-0.242 $\chi^2$/NDF:245.4/36

Out: 1.790+/-0.232 $\chi^2$/NDF:354.2/41

All: -0.086+/-0.167 $\chi^2$/NDF: 736.4/78

# diff_bpm0l06Y_rms vs Slug, Sign Corrected




Right In: 1217.094+/-0.320 $\chi^2$/NDF: 21686.7/15

Left Out: 1139.603+/-0.193 $\chi^2$/NDF:1467017.6/22

Right Out: 1200.497+/-0.310 $\chi^2$/NDF: 37654.3/18

Left In: 1159.722+/-0.202 $\chi^2$/NDF:1259501.7/20

Left: 1149.199+/-0.140 $\chi^2$/NDF: 2731706.2/43

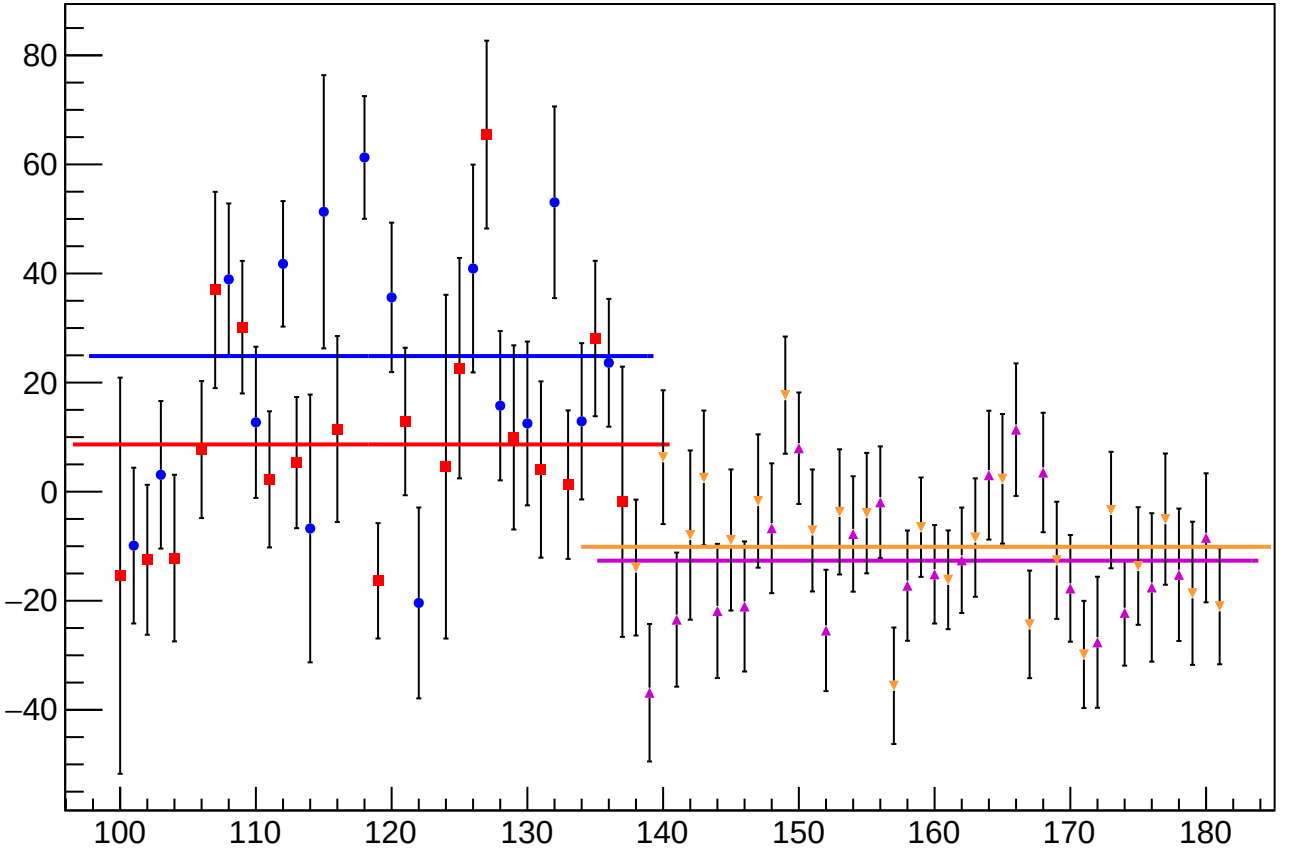
Right: 1208.533+/-0.223 $\chi^2$/NDF: 60729.4/34

In: 1176.080+/-0.171 $\chi^2$/NDF:1304181.5/36

Out: 1156.607+/-0.164 $\chi^2$/NDF:1532490.4/41

All: 1165.935+/-0.118 $\chi^2$/NDF: 2843442.3/78

# diff_bpm0l07X_mean vs Slug, Sign Corrected




Right In: 24.860+/-3.628 $\chi^2$/NDF: 38.1/15

Left Out: -10.113+/-2.320 $\chi^2$/NDF:26.6/22

Right Out: 8.658+/-3.454 $\chi^2$/NDF: 30.1/18

Left In: -12.648+/-2.410 $\chi^2$/NDF:23.7/20

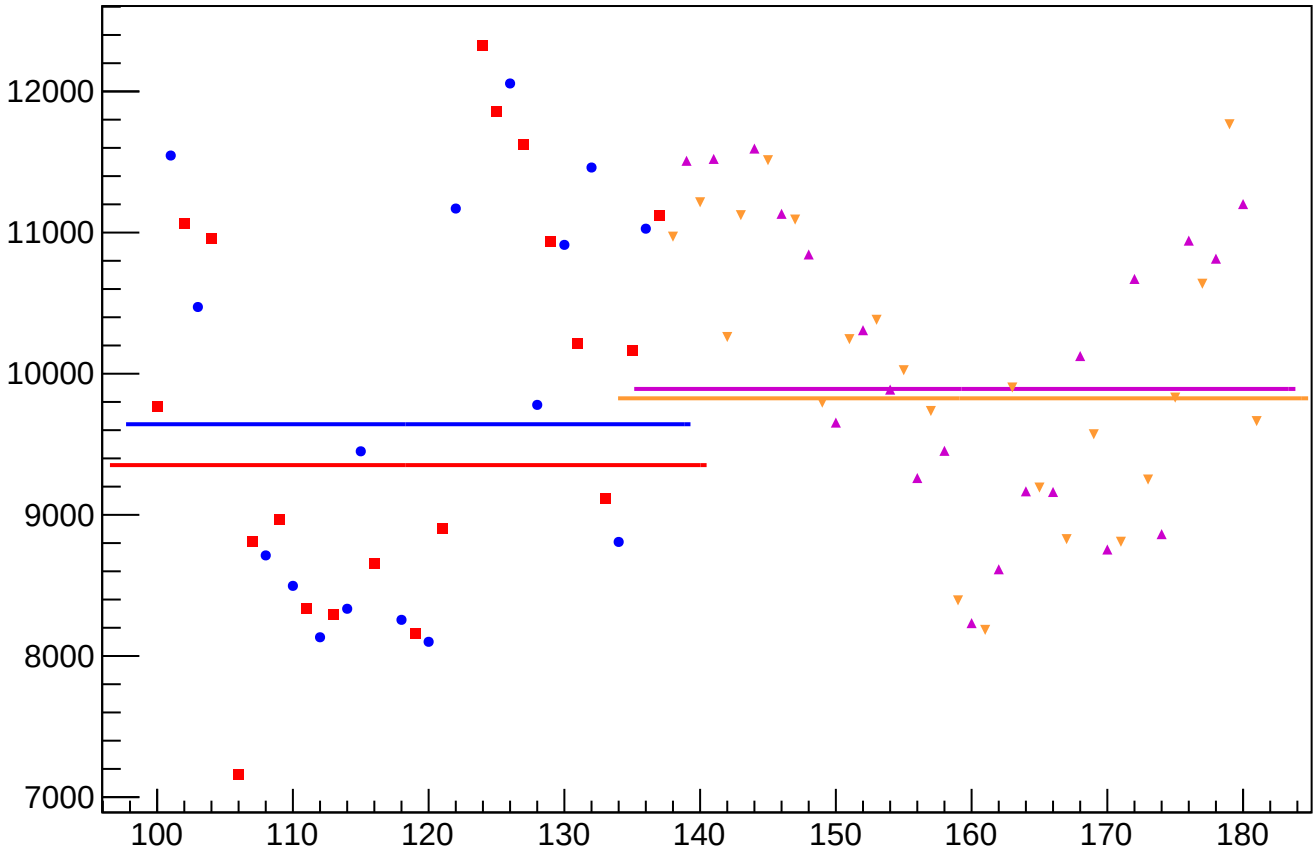
Left: -11.333+/-1.672 $\chi^2$/NDF: 50.8/43

Right: 16.361+/-2.501 $\chi^2$/NDF: 78.7/34

In: -1.164+/-2.007 $\chi^2$/NDF:136.0/36

Out: -4.275+/-1.926 $\chi^2$/NDF:77.1/41

All: -2.784+/-1.390 $\chi^2$/NDF: 214.3/78




Right In: 9642.075+/-2.565 $\chi^2$/NDF: 279657.4/15

Left Out: 9825.673+/-1.641 $\chi^2$/NDF:352834.2/22

Right Out: 9352.503+/-2.442 $\chi^2$/NDF: 301779.3/18

Left In: 9892.183+/-1.704 $\chi^2$/NDF:380375.2/20

Left: 9857.668+/-1.182 $\chi^2$/NDF: 733999.9/43

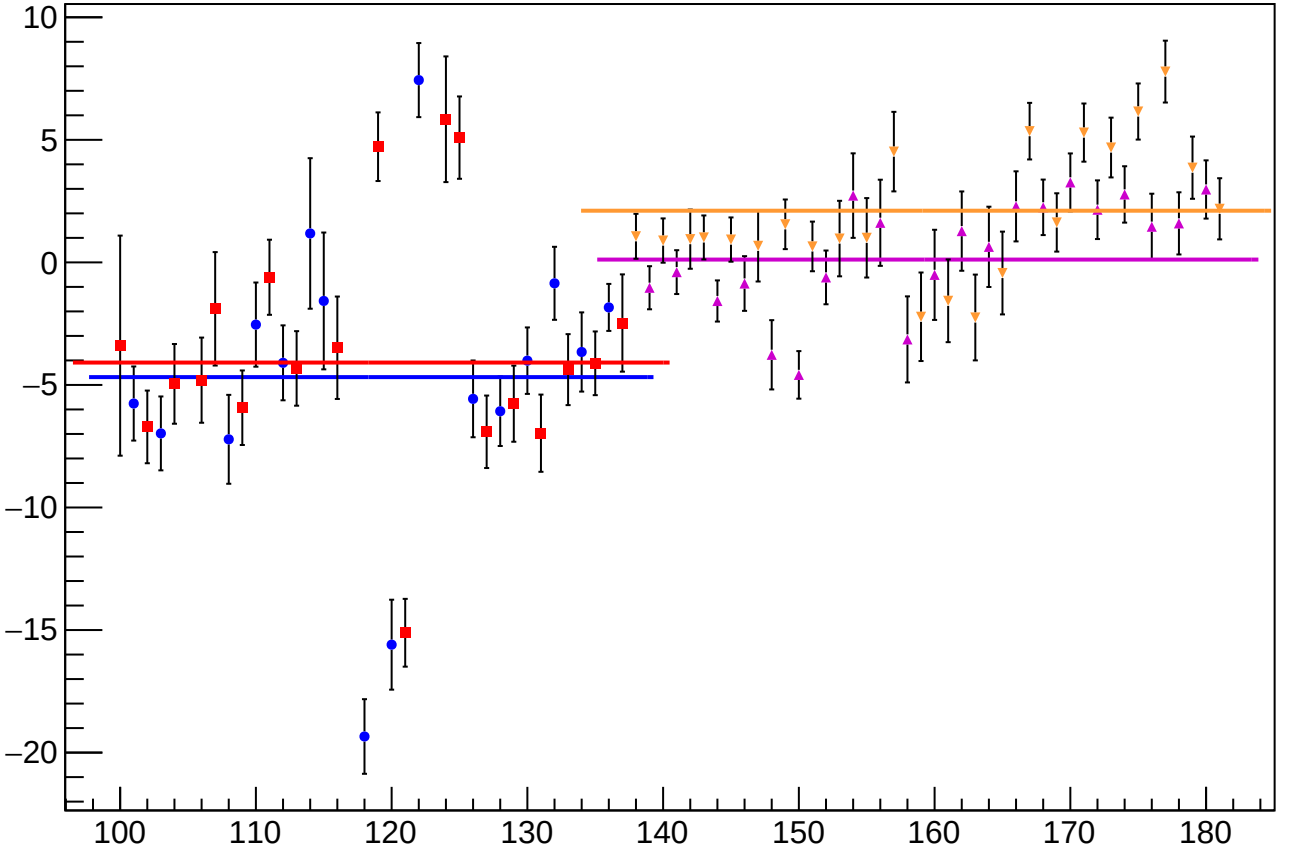
Right: 9490.167+/-1.769 $\chi^2$/NDF: 588120.8/34

In: 9815.606+/-1.419 $\chi^2$/NDF:666627.6/36

Out: 9678.512+/-1.362 $\chi^2$/NDF:680478.2/41

All: 9744.224+/-0.983 $\chi^2$/NDF: 1351962.6/78

# diff_bpm0l07Y_mean vs Slug, Sign Corrected




Right In: -4.681+/-0.386 $\chi^2$/NDF: 221.2/15

Left Out: 2.109+/-0.250 $\chi^2$/NDF:87.1/22

Right Out: -4.087+/-0.376 $\chi^2$/NDF: 168.1/18

Left In: 0.115+/-0.262 $\chi^2$/NDF:74.9/20

Left: 1.160+/-0.181 $\chi^2$/NDF: 192.2/43

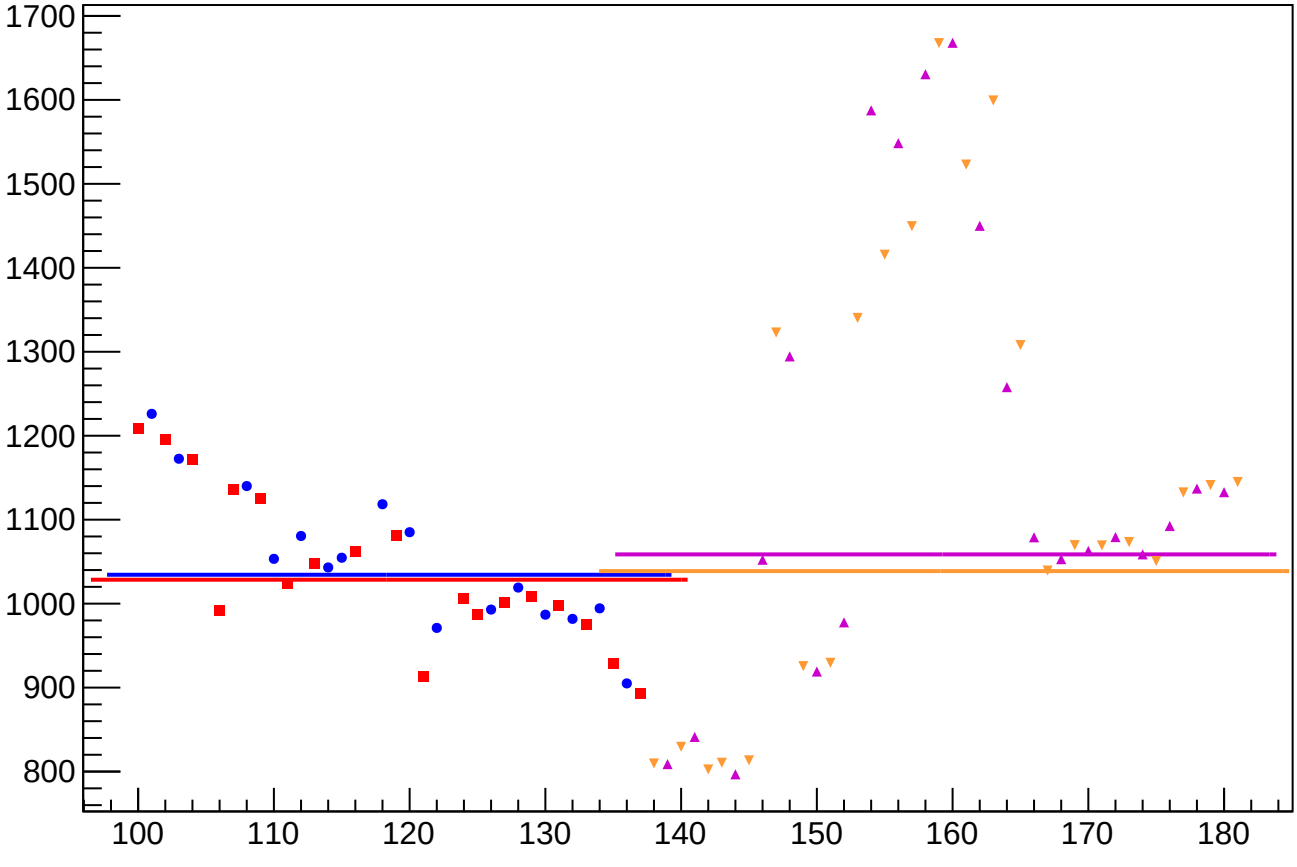
Right: -4.376+/-0.269 $\chi^2$/NDF: 390.5/34

In: -1.402+/-0.217 $\chi^2$/NDF:401.7/36

Out: 0.212+/-0.208 $\chi^2$/NDF:443.2/41

All: -0.562+/-0.150 $\chi^2$/NDF: 873.7/78

# diff_bpm0l07Y_rms vs Slug, Sign Corrected




Right In: 1034.402+/-0.273 $\chi^2$/NDF: 113278.6/15

Left Out: 1038.758+/-0.177 $\chi^2$/NDF:1706572.9/22

Right Out: 1028.501+/-0.266 $\chi^2$/NDF: 101624.8/18

Left In: 1058.657+/-0.186 $\chi^2$/NDF:1521849.0/20

Left: 1048.223+/-0.128 $\chi^2$/NDF: 3234450.0/43

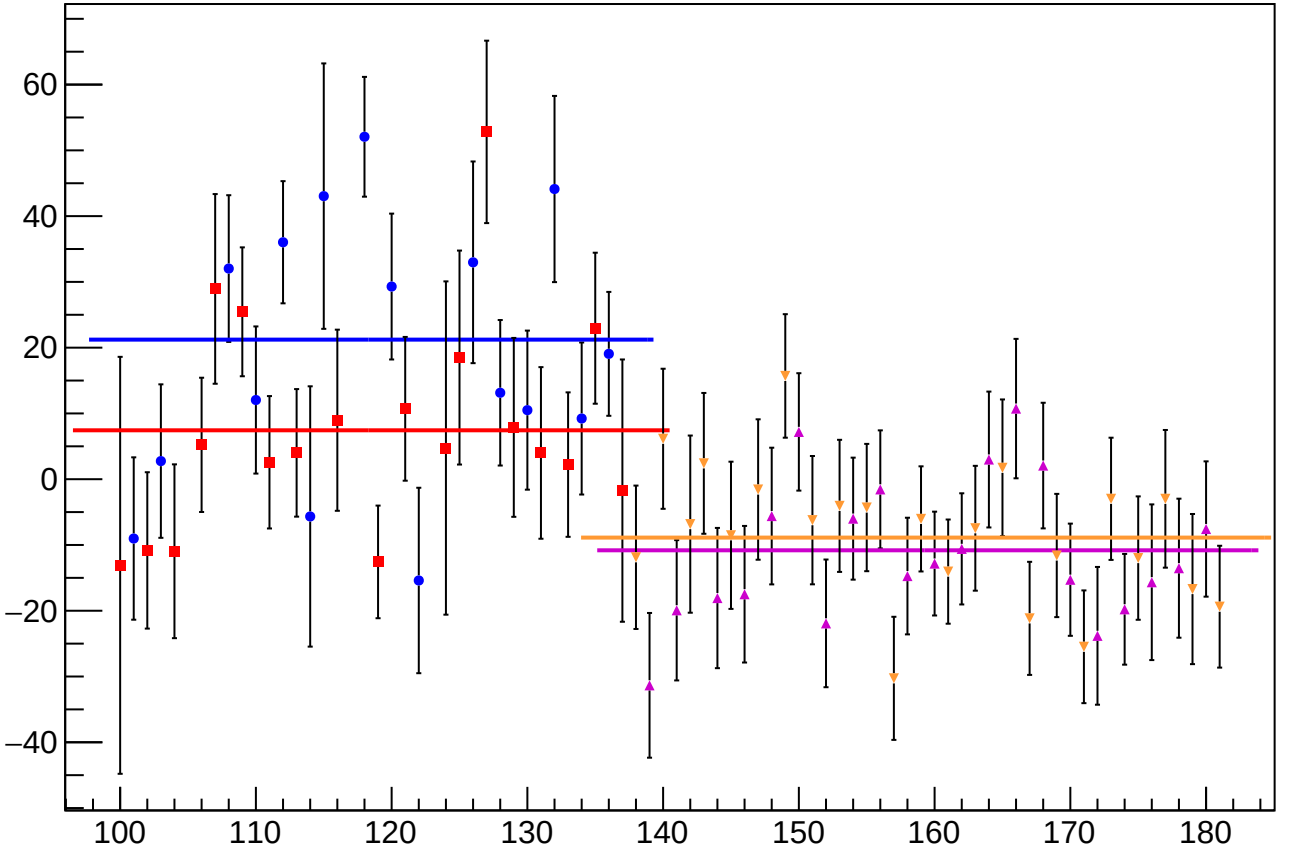
Right: 1031.379+/-0.190 $\chi^2$/NDF: 215143.2/34

In: 1050.983+/-0.153 $\chi^2$/NDF:1640532.0/36

Out: 1035.618+/-0.147 $\chi^2$/NDF:1809228.2/41

All: 1042.984+/-0.106 $\chi^2$/NDF: 3454979.9/78

# diff_bpm0l08X_mean vs Slug, Sign Corrected




Right In: 21.222+/-2.952 $\chi^2$/NDF: 40.1/15

Left Out: -8.878+/-2.025 $\chi^2$/NDF:26.4/22

Right Out: 7.435+/-2.810 $\chi^2$/NDF: 29.8/18

Left In: -10.811+/-2.103 $\chi^2$/NDF:23.3/20

Left: -9.808+/-1.459 $\chi^2$/NDF: 50.1/43

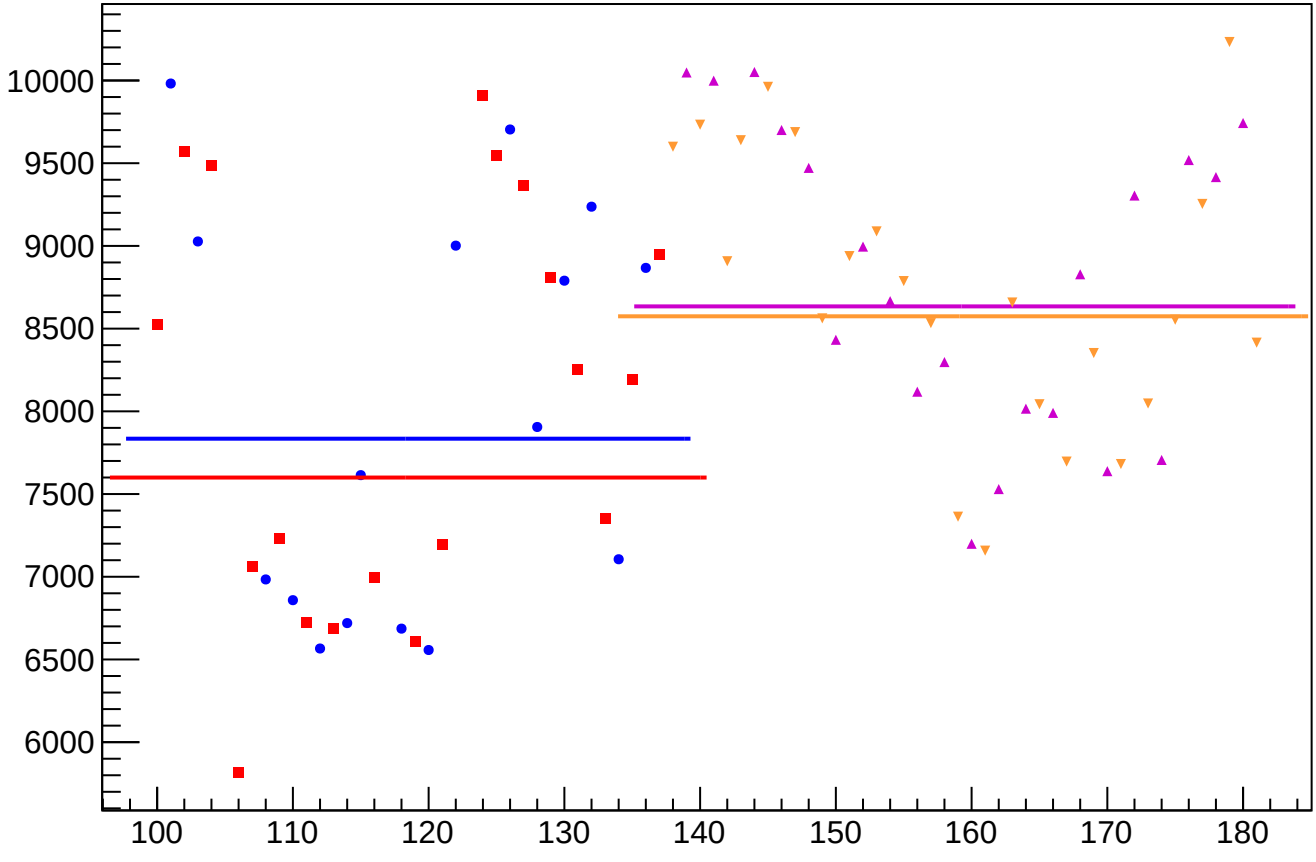
Right: 13.990+/-2.035 $\chi^2$/NDF: 81.3/34

In: -0.025+/-1.713 $\chi^2$/NDF:141.5/36

Out: -3.305+/-1.643 $\chi^2$/NDF:78.3/41

All: -1.733+/-1.186 $\chi^2$/NDF: 221.8/78

# diff_bpm0l08X_rms vs Slug, Sign Corrected




Right In: 7834.618+/-2.087 $\chi^2$/NDF: 318089.6/15

Left Out: 8574.498+/-1.432 $\chi^2$/NDF:340548.3/22

Right Out: 7599.749+/-1.987 $\chi^2$/NDF: 344296.8/18

Left In: 8634.448+/-1.487 $\chi^2$/NDF:369214.3/20

Left: 8603.332+/-1.031 $\chi^2$/NDF: 710606.1/43

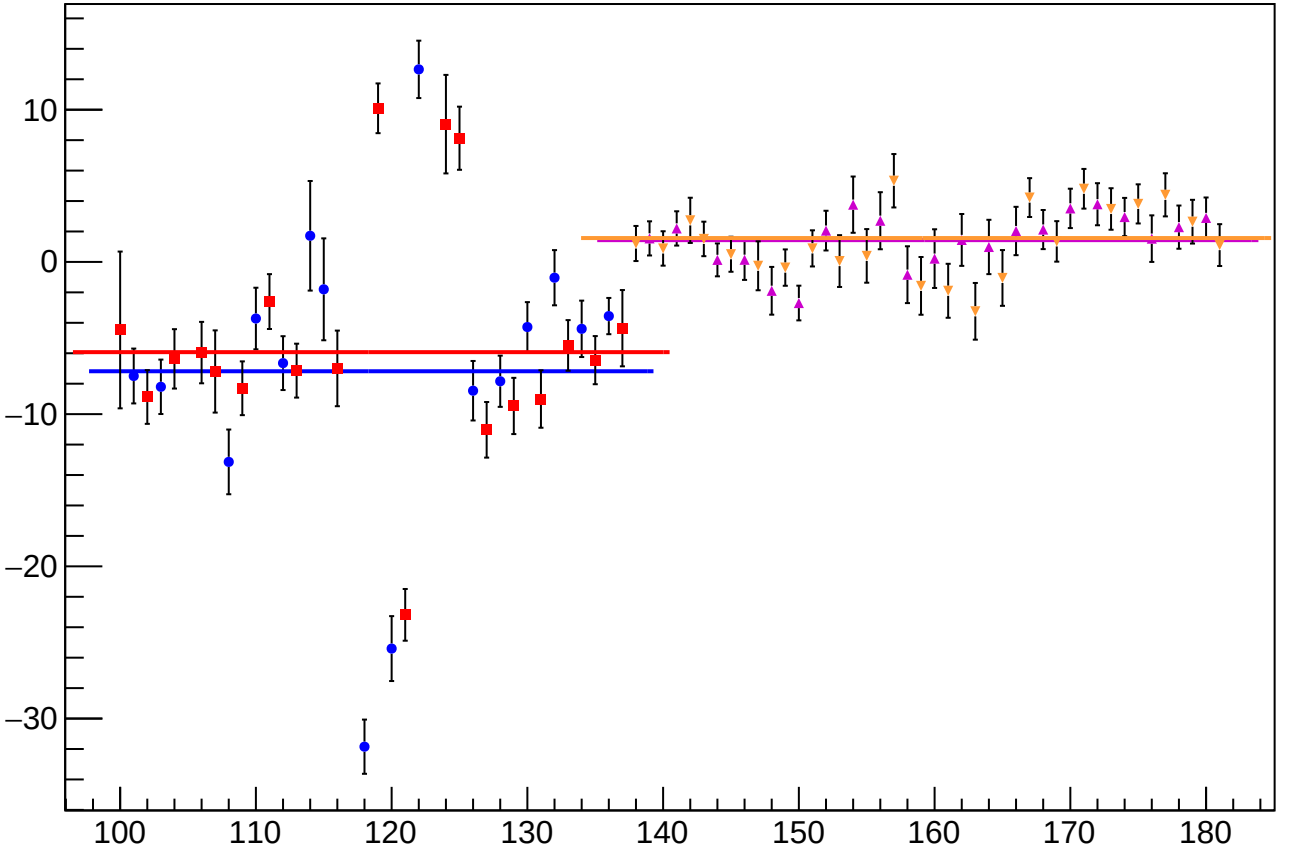
Right: 7711.419+/-1.439 $\chi^2$/NDF: 669028.2/34

In: 8365.145+/-1.211 $\chi^2$/NDF:784704.5/36

Out: 8241.467+/-1.162 $\chi^2$/NDF:843247.2/41

All: 8300.722+/-0.838 $\chi^2$/NDF: 1633383.6/78

# diff_bpm0l08Y_mean vs Slug, Sign Corrected




Right In: -7.183+/-0.462 $\chi^2$/NDF: 422.2/15

Left Out: 1.568+/-0.290 $\chi^2$/NDF:47.5/22

Right Out: -5.927+/-0.449 $\chi^2$/NDF: 290.4/18

Left In: 1.432+/-0.304 $\chi^2$/NDF:33.7/20

Left: 1.503+/-0.210 $\chi^2$/NDF: 81.3/43

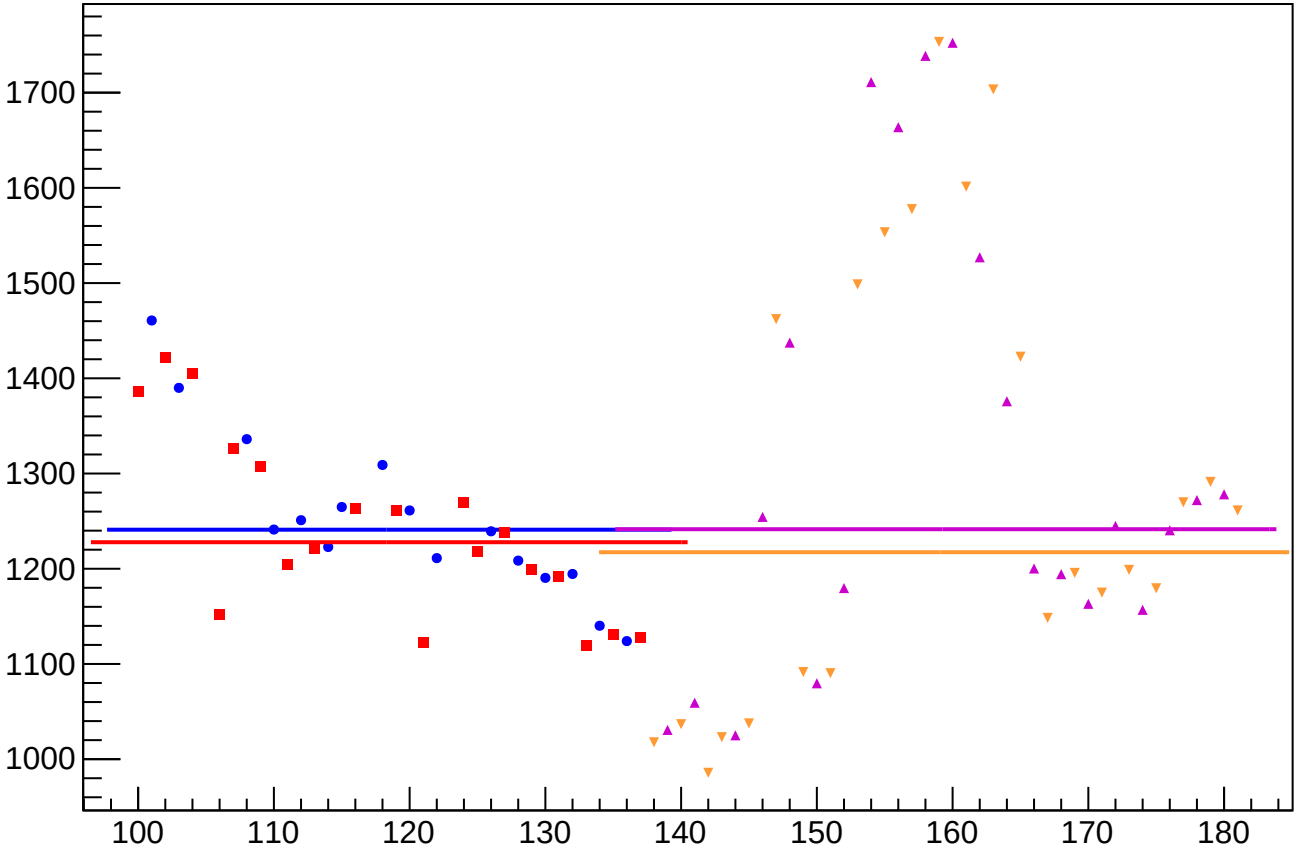
Right: -6.537+/-0.322 $\chi^2$/NDF: 716.4/34

In: -1.172+/-0.254 $\chi^2$/NDF:698.2/36

Out: -0.634+/-0.243 $\chi^2$/NDF:534.6/41

All: -0.891+/-0.176 $\chi^2$/NDF: 1235.1/78

# diff_bpm0l08Y_rms vs Slug, Sign Corrected




Right In: 1241.007+/-0.327 $\chi^2$/NDF: 80653.5/15

Left Out: 1217.364+/-0.205 $\chi^2$/NDF:1005898.9/22

Right Out: 1227.864+/-0.318 $\chi^2$/NDF: 82339.2/18

Left In: 1241.508+/-0.215 $\chi^2$/NDF:882505.5/20

Left: 1228.842+/-0.148 $\chi^2$/NDF: 1895009.9/43

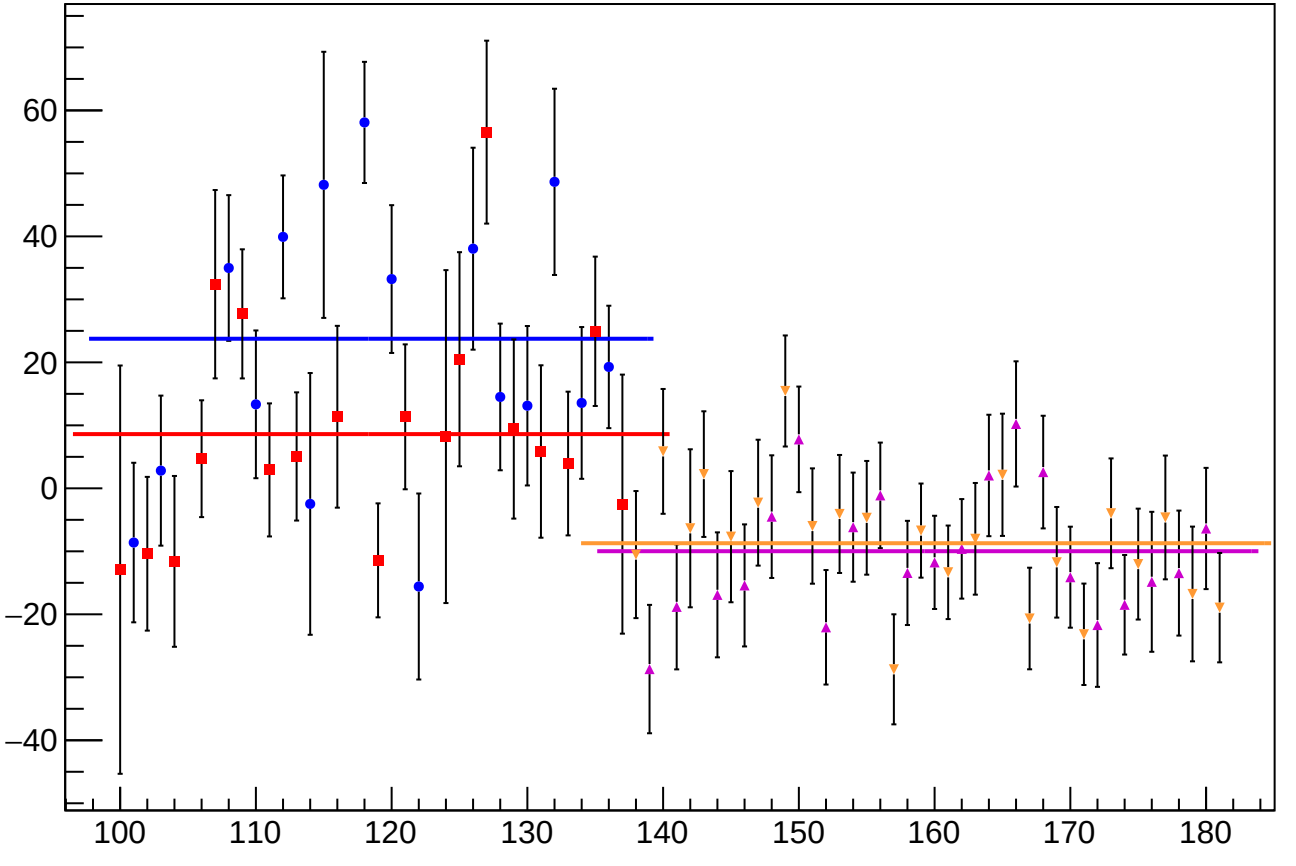
Right: 1234.245+/-0.228 $\chi^2$/NDF: 163824.2/34

In: 1241.356+/-0.180 $\chi^2$/NDF:963160.6/36

Out: 1220.448+/-0.172 $\chi^2$/NDF:1089010.0/41

All: 1230.452+/-0.124 $\chi^2$/NDF: 2059229.0/78

# diff_bpm0l09X_mean vs Slug, Sign Corrected




Right In: 23.750+/-3.081 $\chi^2$/NDF: 43.4/15

Left Out: -8.713+/-1.894 $\chi^2$/NDF:27.0/22

Right Out: 8.609+/-2.899 $\chi^2$/NDF: 30.5/18

Left In: -9.982+/-1.968 $\chi^2$/NDF:24.0/20

Left: -9.323+/-1.364 $\chi^2$/NDF: 51.3/43

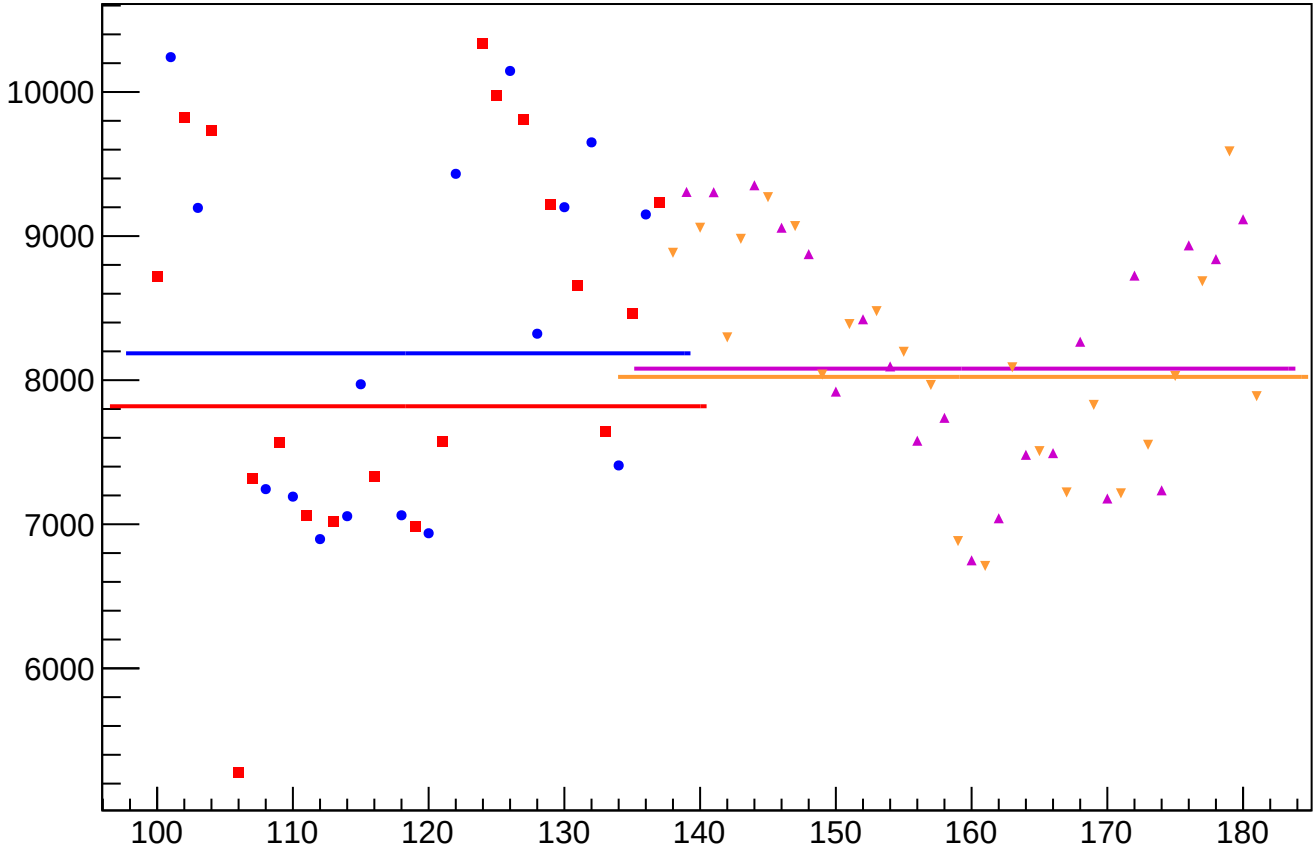
Right: 15.718+/-2.111 $\chi^2$/NDF: 86.7/34

In: -0.212+/-1.658 $\chi^2$/NDF:152.6/36

Out: -3.532+/-1.585 $\chi^2$/NDF:82.5/41

All: -1.947+/-1.146 $\chi^2$/NDF: 237.2/78

# diff_bpm0l09X_rms vs Slug, Sign Corrected




Right In: 8186.361+/-2.179 $\chi^2$/NDF: 290628.8/15

Left Out: 8022.826+/-1.339 $\chi^2$/NDF:329149.0/22

Right Out: 7818.965+/-2.050 $\chi^2$/NDF: 422998.1/18

Left In: 8080.119+/-1.391 $\chi^2$/NDF:358404.4/20

Left: 8050.379+/-0.965 $\chi^2$/NDF: 688433.6/43

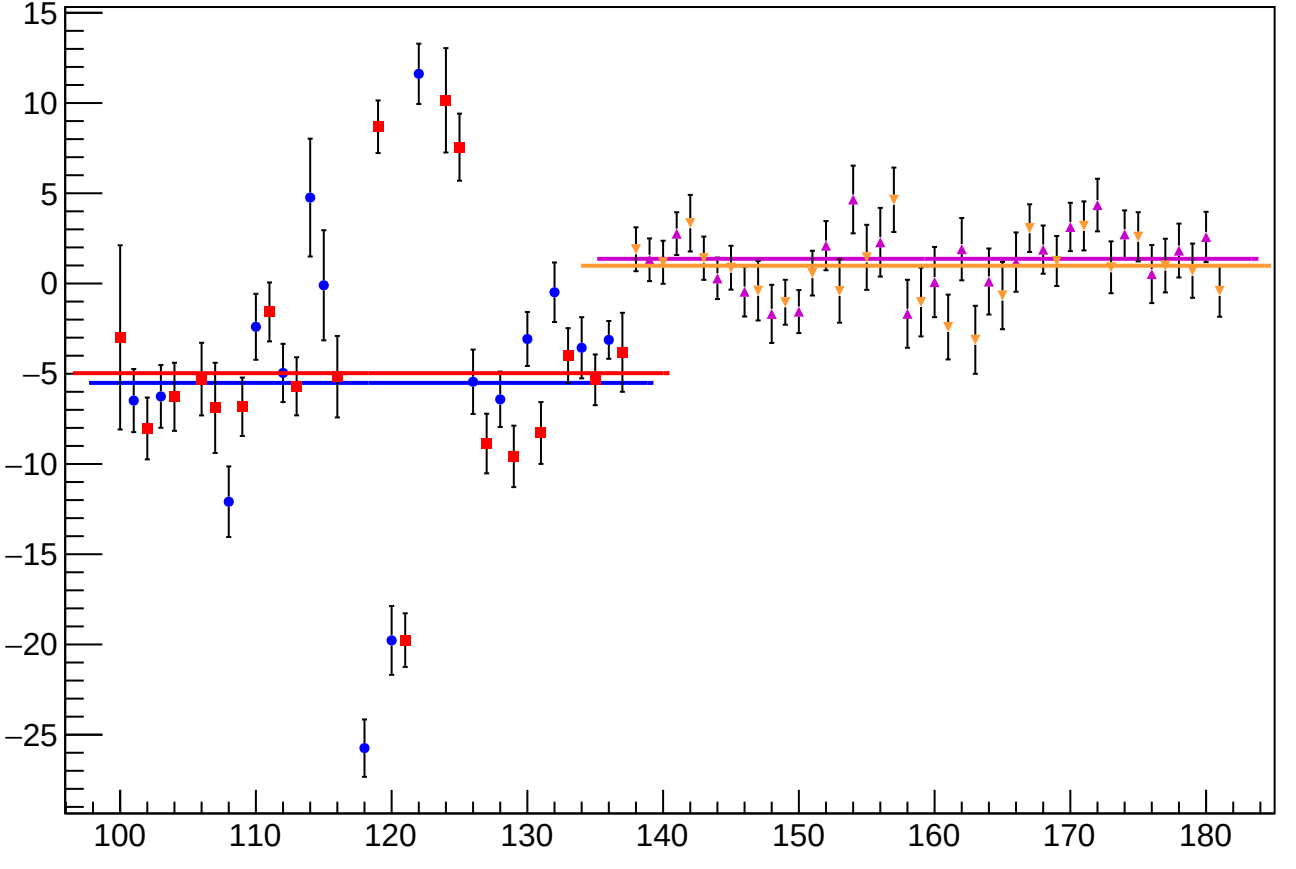
Right: 7991.468+/-1.493 $\chi^2$/NDF: 728709.0/34

In: 8110.890+/-1.173 $\chi^2$/NDF:650722.1/36

Out: 7961.849+/-1.121 $\chi^2$/NDF:759078.9/41

All: 8033.025+/-0.810 $\chi^2$/NDF: 1418240.9/78

# diff_bpm0l09Y_mean vs Slug, Sign Corrected




Right In: -5.506+/-0.421 $\chi^2$/NDF: 369.8/15

Left Out: 0.985+/-0.302 $\chi^2$/NDF:29.1/22

Right Out: -4.967+/-0.410 $\chi^2$/NDF: 287.3/18

Left In: 1.368+/-0.317 $\chi^2$/NDF:29.1/20

Left: 1.167+/-0.219 $\chi^2$/NDF: 58.9/43

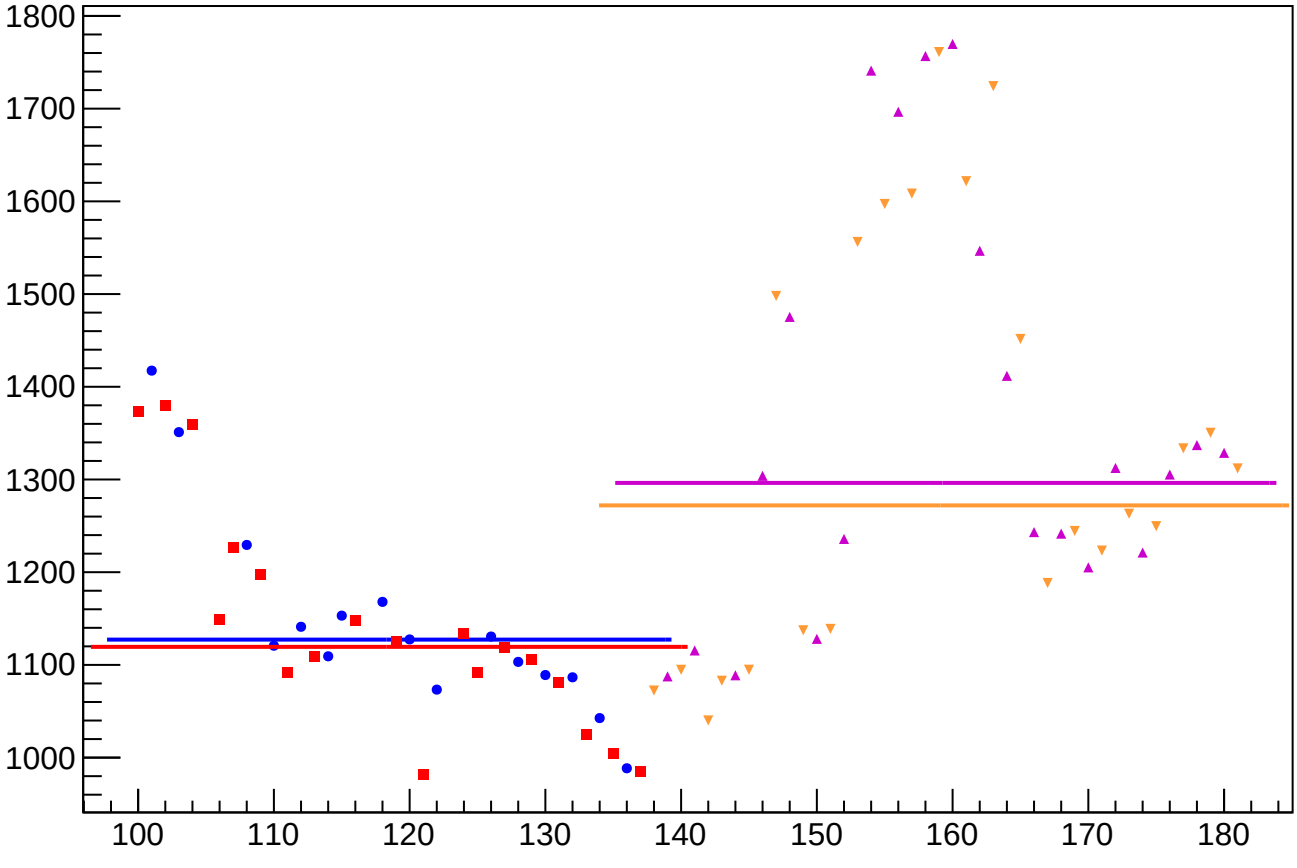
Right: -5.230+/-0.294 $\chi^2$/NDF: 657.9/34

In: -1.119+/-0.253 $\chi^2$/NDF:569.1/36

Out: -1.106+/-0.243 $\chi^2$/NDF:452.9/41

All: -1.112+/-0.175 $\chi^2$/NDF: 1022.1/78

# diff_bpm0l09Y_rms vs Slug, Sign Corrected




Right In: 1127.290+/-0.298 $\chi^2$/NDF: 140615.8/15

Left Out: 1272.052+/-0.214 $\chi^2$/NDF:870534.4/22

Right Out: 1119.473+/-0.290 $\chi^2$/NDF: 140736.0/18

Left In: 1296.305+/-0.224 $\chi^2$/NDF:755173.4/20

Left: 1283.593+/-0.155 $\chi^2$/NDF: 1631847.8/43

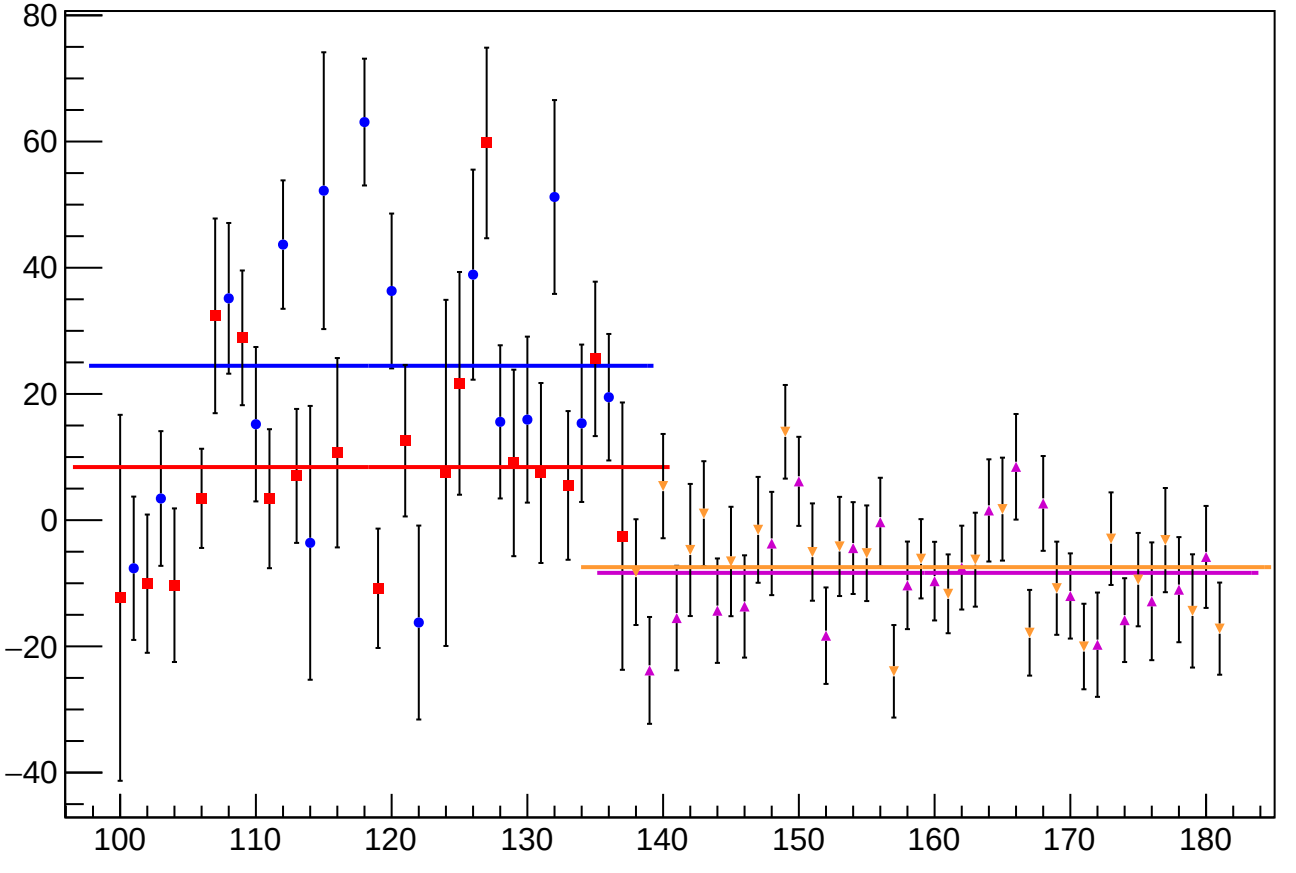
Right: 1123.282+/-0.208 $\chi^2$/NDF: 281705.5/34

In: 1235.153+/-0.179 $\chi^2$/NDF:1101626.1/36

Out: 1218.459+/-0.172 $\chi^2$/NDF:1190666.4/41

All: 1226.471+/-0.124 $\chi^2$/NDF: 2296815.3/78

# diff_bpm0l10X_mean vs Slug, Sign Corrected




Right In: 24.463+/-3.136 $\chi^2$/NDF: 48.3/15

Left Out: -7.446+/-1.590 $\chi^2$/NDF:28.7/22

Right Out: 8.413+/-2.891 $\chi^2$/NDF: 31.1/18

Left In: -8.352+/-1.652 $\chi^2$/NDF:24.6/20

Left: -7.882+/-1.145 $\chi^2$/NDF: 53.4/43

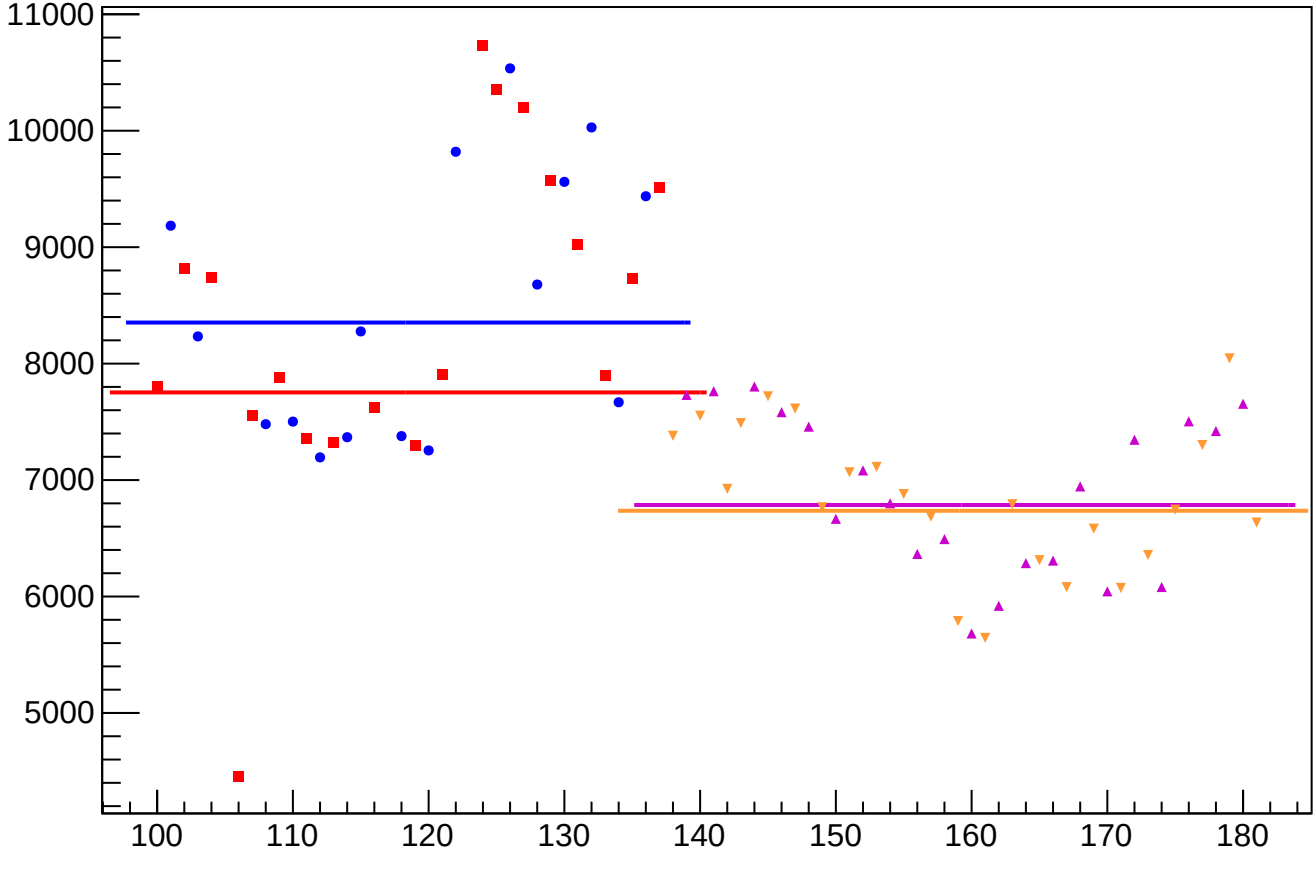
Right: 15.786+/-2.126 $\chi^2$/NDF: 93.6/34

In: -1.225+/-1.462 $\chi^2$/NDF:158.6/36

Out: -3.764+/-1.393 $\chi^2$/NDF:82.9/41

All: -2.556+/-1.008 $\chi^2$/NDF: 243.1/78

# diff_bpm0l10X_rms vs Slug, Sign Corrected




Right In: 8352.758+/-2.218 $\chi^2$/NDF: 220412.5/15

Left Out: 6736.463+/-1.124 $\chi^2$/NDF:313448.5/22

Right Out: 7752.674+/-2.044 $\chi^2$/NDF: 588072.1/18

Left In: 6785.839+/-1.168 $\chi^2$/NDF:344291.4/20

Left: 6760.204+/-0.810 $\chi^2$/NDF: 658667.6/43

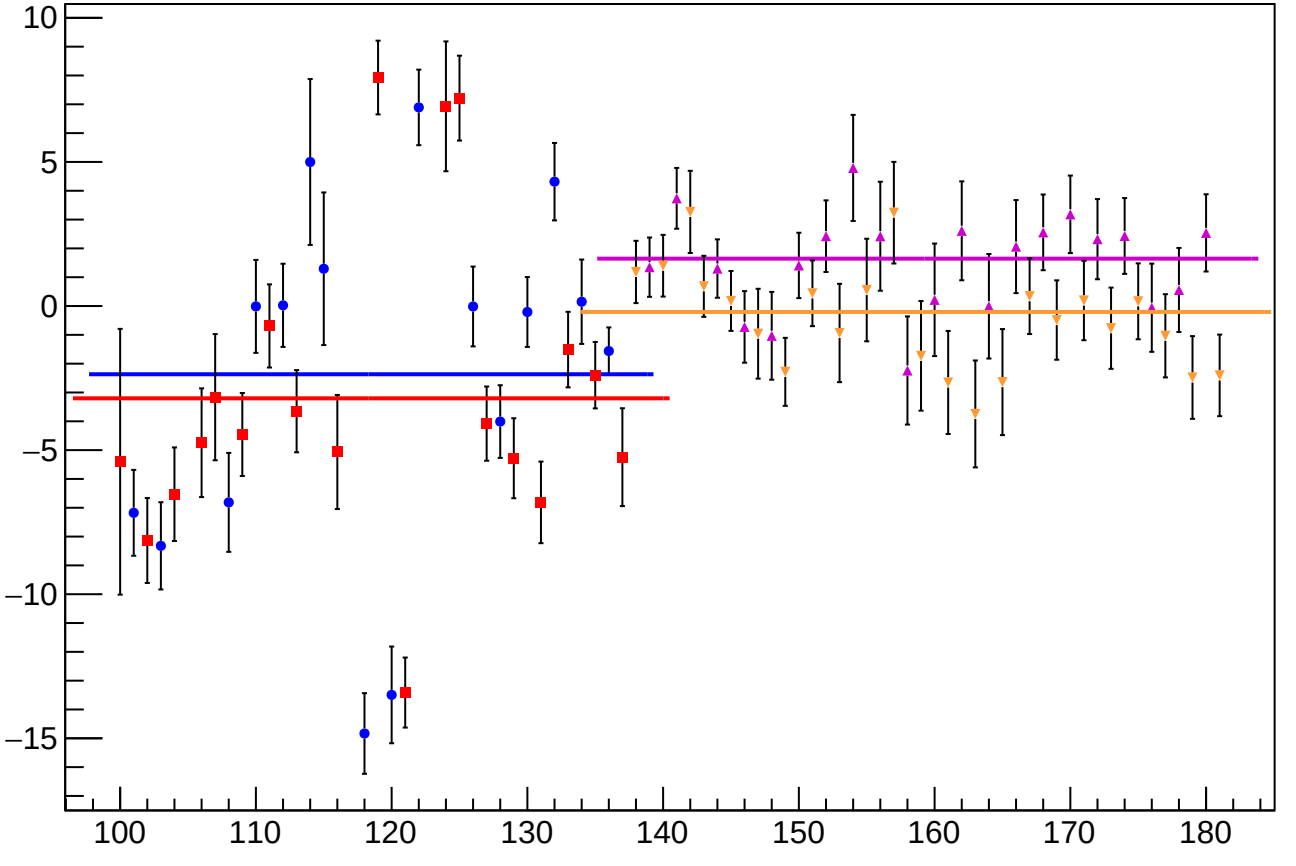
Right: 8028.343+/-1.503 $\chi^2$/NDF: 848071.5/34

In: 7126.157+/-1.033 $\chi^2$/NDF:955533.5/36

Out: 6972.403+/-0.985 $\chi^2$/NDF:1091269.3/41

All: 7045.589+/-0.713 $\chi^2$/NDF: 2058401.0/78

# diff_bpm0l10Y_mean vs Slug, Sign Corrected




Right In: -2.368+/-0.350 $\chi^2$/NDF: 255.6/15

Left Out: -0.205+/-0.285 $\chi^2$/NDF:32.2/22

Right Out: -3.203+/-0.346 $\chi^2$/NDF: 250.5/18

Left In: 1.644+/-0.299 $\chi^2$/NDF:25.0/20

Left: 0.675+/-0.207 $\chi^2$/NDF: 77.2/43

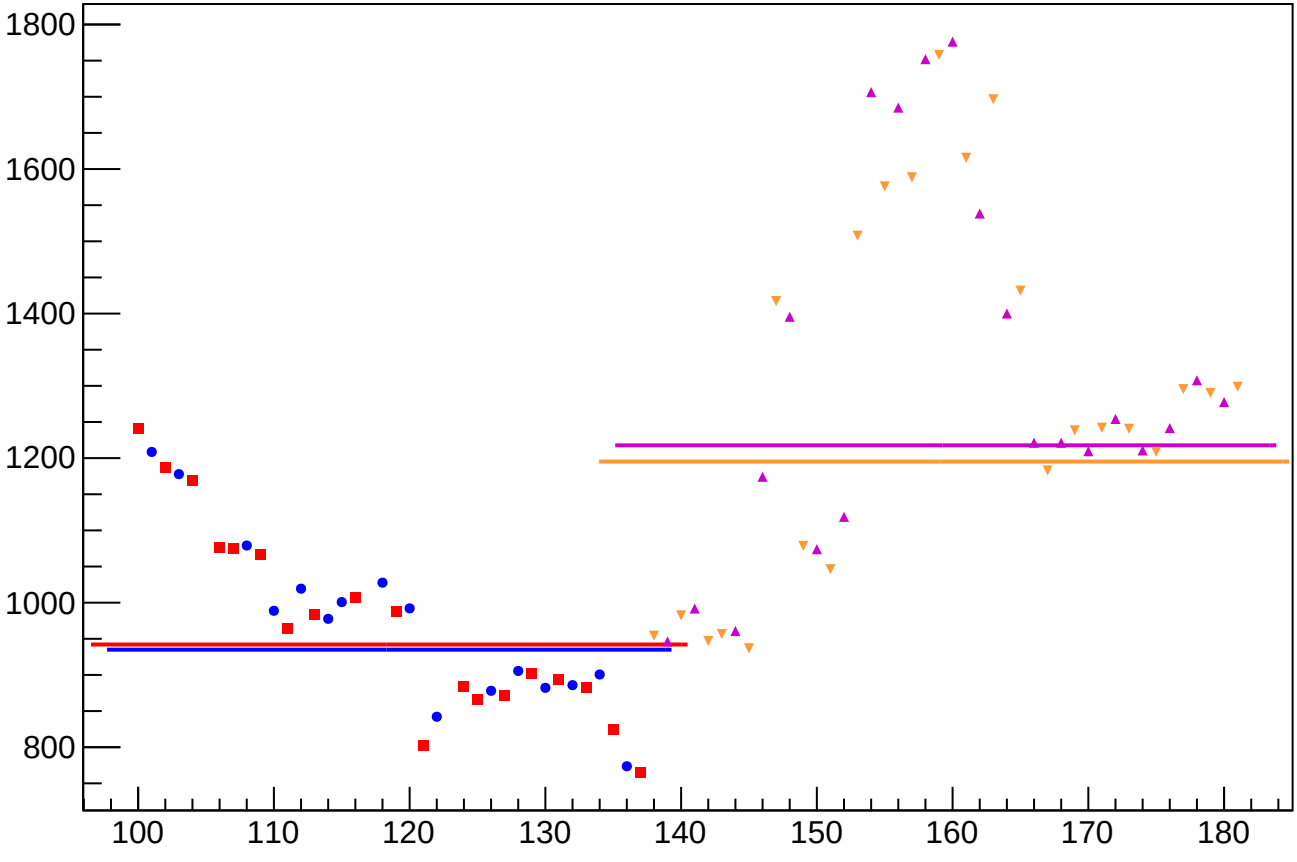
Right: -2.790+/-0.246 $\chi^2$/NDF: 509.0/34

In: -0.049+/-0.228 $\chi^2$/NDF:356.4/36

Out: -1.417+/-0.220 $\chi^2$/NDF:327.3/41

All: -0.756+/-0.158 $\chi^2$/NDF: 702.4/78

# diff_bpm0l10Y_rms vs Slug, Sign Corrected




Right In: 934.975+/-0.248 $\chi^2$/NDF: 254363.7/15

Left Out: 1195.223+/-0.202 $\chi^2$/NDF:1317252.8/22

Right Out: 942.096+/-0.245 $\chi^2$/NDF: 232453.5/18

Left In: 1217.707+/-0.212 $\chi^2$/NDF:1126699.8/20

Left: 1205.929+/-0.146 $\chi^2$/NDF: 2449859.6/43

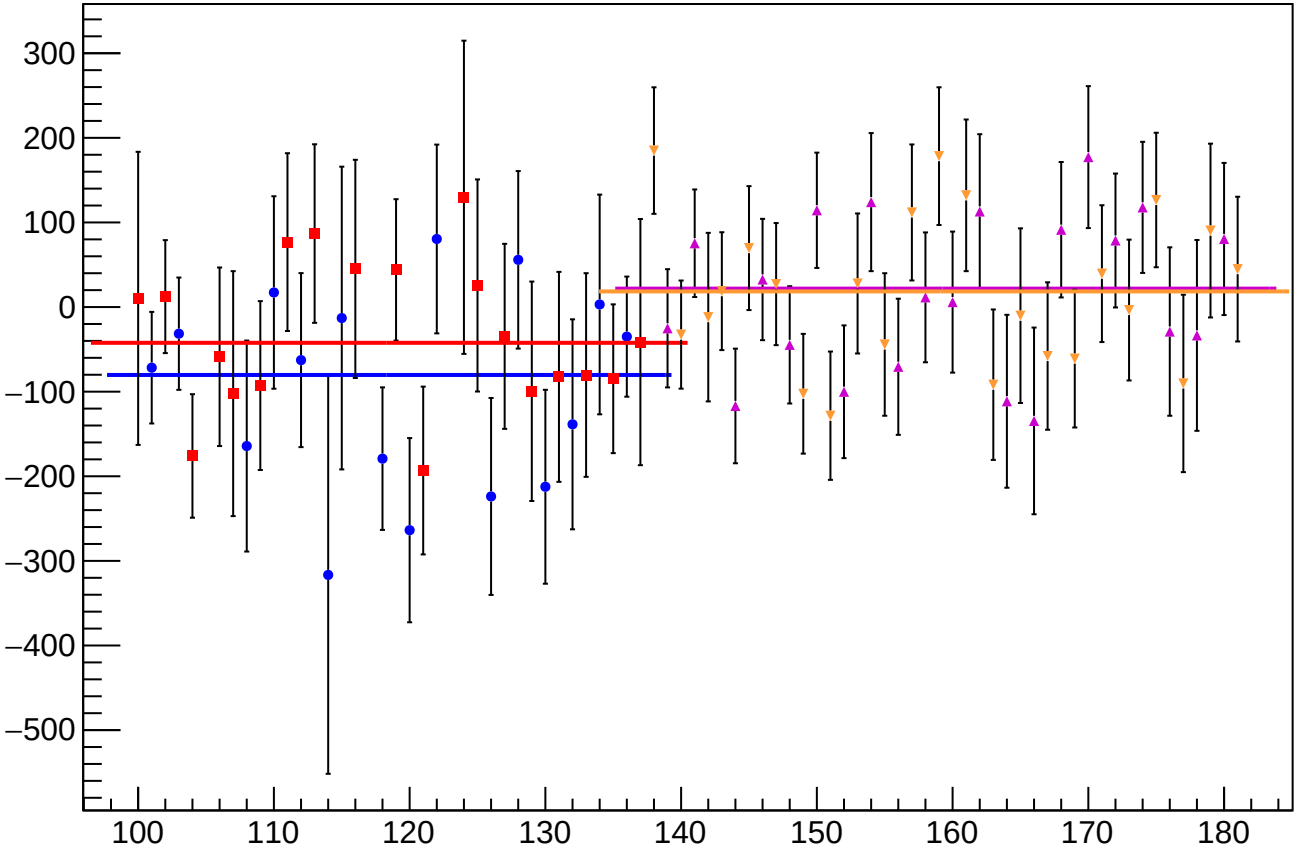
Right: 938.577+/-0.174 $\chi^2$/NDF: 487235.0/34

In: 1098.398+/-0.161 $\chi^2$/NDF:2133489.0/36

Out: 1092.829+/-0.156 $\chi^2$/NDF:2185775.4/41

All: 1095.522+/-0.112 $\chi^2$/NDF: 4319882.3/78

# diff_bpm0r03X_mean vs Slug, Sign Corrected




Right In: -80.250+/-24.909 $\chi^2$/NDF: 14.8/15

Left Out: 18.492+/-16.949 $\chi^2$/NDF:27.2/22

Right Out: -42.263+/-24.144 $\chi^2$/NDF: 13.0/18

Left In: 21.794+/-17.421 $\chi^2$/NDF:25.4/20

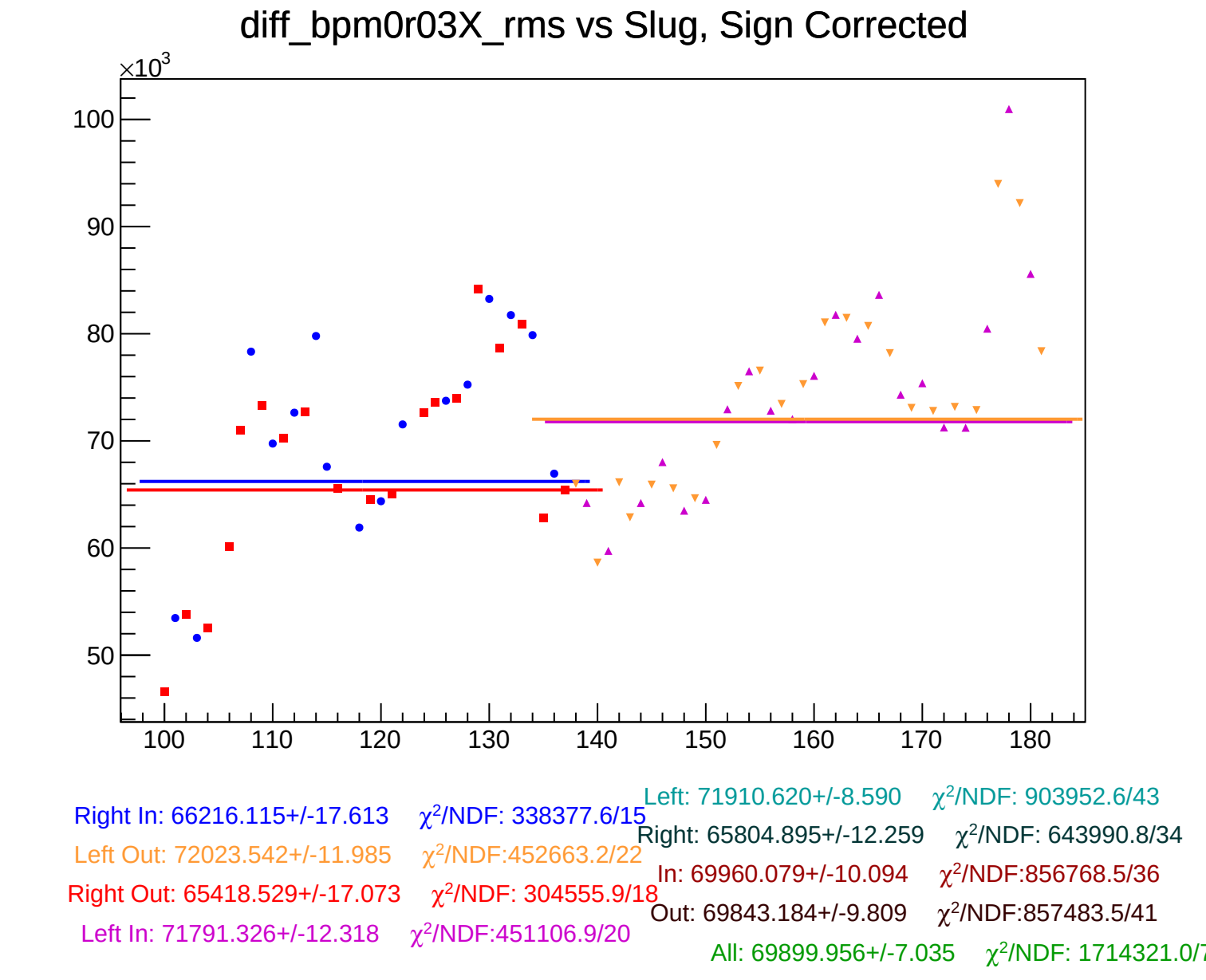
Left: 20.098+/-12.148 $\chi^2$/NDF: 52.6/43

Right: -60.665+/-17.337 $\chi^2$/NDF: 29.0/34

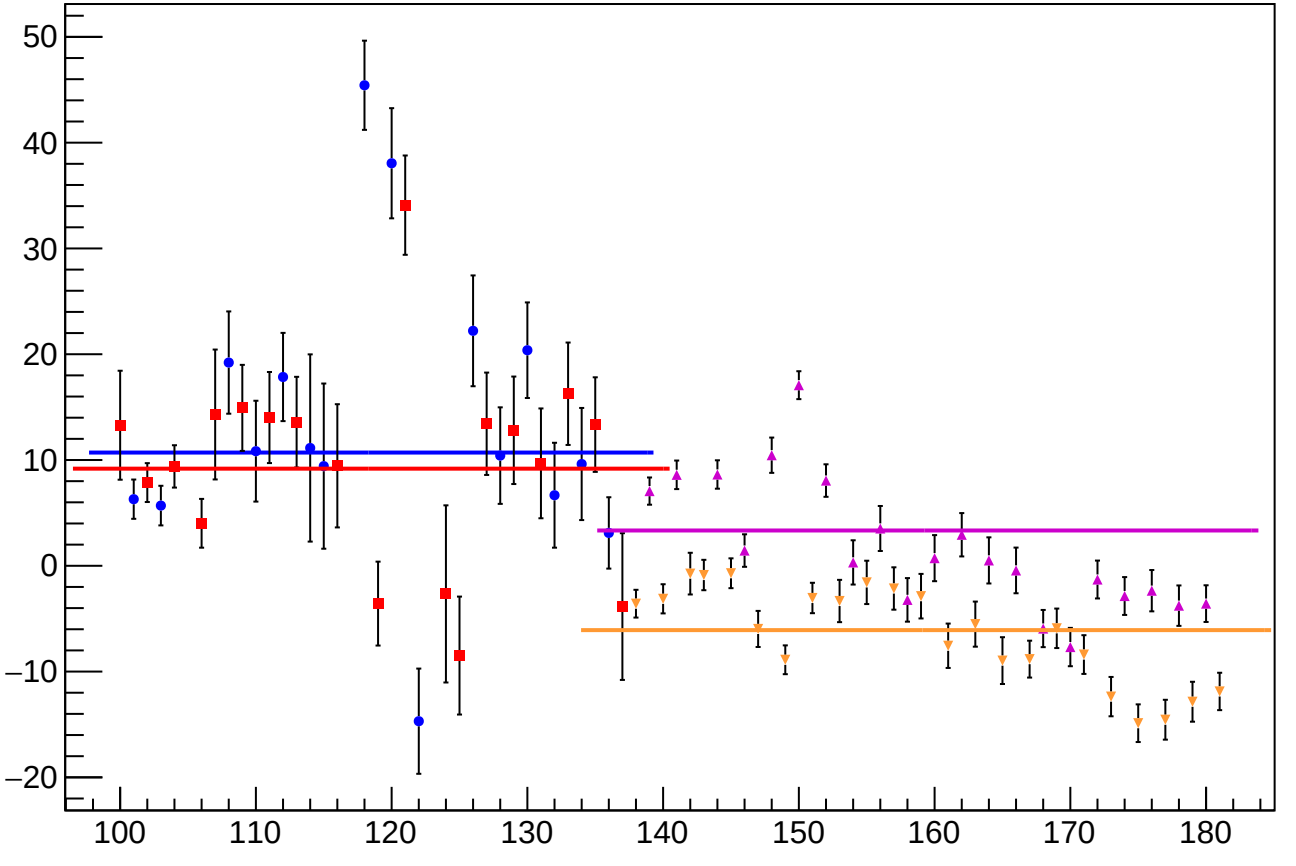
In: -11.723+/-14.276 $\chi^2$/NDF:51.4/36

Out: -1.564+/-13.872 $\chi^2$/NDF:44.5/41

All: -6.498+/-9.949 $\chi^2$/NDF: 96.2/78


diff_bpm0r03X_rms vs Slug, Sign Corrected
×10^3
100
90
80
70
60
50
100
110
120
130
140
150
160
170
180
Right In: 66216.115+/-17.613 χ²/NDF: 338377.6/15
Left Out: 72023.542+/-11.985 χ²/NDF:452663.2/22
Right Out: 65418.529+/-17.073 χ²/NDF: 304555.9/18
Left In: 71791.326+/-12.318 χ²/NDF:451106.9/20
Left: 71910.620+/-8.590 χ²/NDF: 903952.6/43
Right: 65804.895+/-12.259 χ²/NDF: 643990.8/34
In: 69960.079+/-10.094 χ²/NDF:856768.5/36
Out: 69843.184+/-9.809 χ²/NDF:857483.5/41
All: 69899.956+/-7.035 χ²/NDF: 1714321.0/7

# diff_bpm0r03Y_mean vs Slug, Sign Corrected




Right In: 10.705+/-0.921 $\chi^2$/NDF: 155.6/15

Left Out: -6.082+/-0.360 $\chi^2$/NDF:151.0/22

Right Out: 9.182+/-0.850 $\chi^2$/NDF: 69.6/18

Left In: 3.338+/-0.373 $\chi^2$/NDF:316.9/20

Left: -1.551+/-0.259 $\chi^2$/NDF: 797.9/43

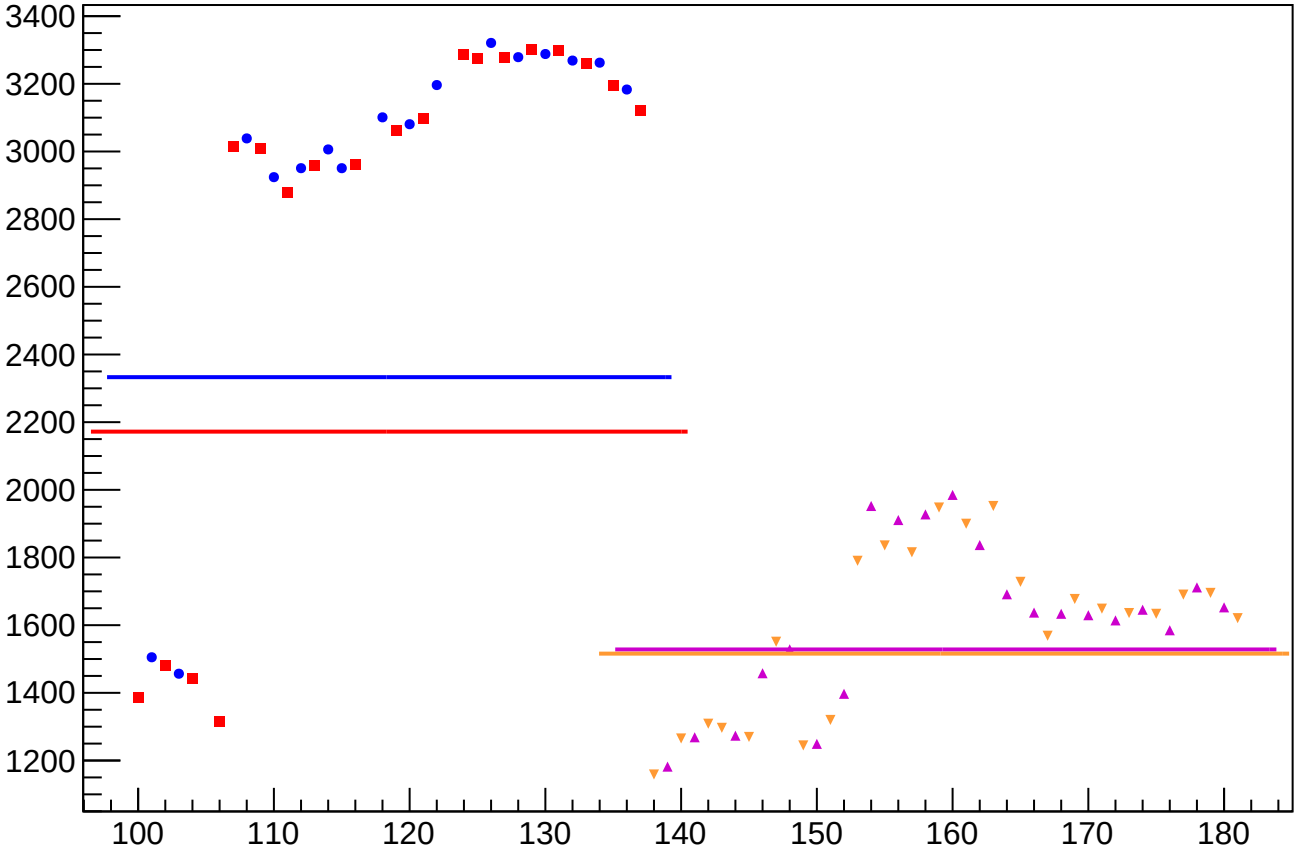
Right: 9.883+/-0.625 $\chi^2$/NDF: 226.6/34

In: 4.379+/-0.346 $\chi^2$/NDF:527.4/36

Out: -3.766+/-0.331 $\chi^2$/NDF:494.0/41

All: 0.127+/-0.239 $\chi^2$/NDF: 1310.5/78

# diff_bpm0r03Y_rms vs Slug, Sign Corrected




Right In: 2333.021+/-0.651 $\chi^2$/NDF: 1651407.8/15

Left Out: 1515.895+/-0.254 $\chi^2$/NDF:932623.5/22

Right Out: 2172.041+/-0.601 $\chi^2$/NDF: 1984197.6/18

Left In: 1528.195+/-0.264 $\chi^2$/NDF:827666.9/20

Left: 1521.811+/-0.183 $\chi^2$/NDF: 1761416.1/43

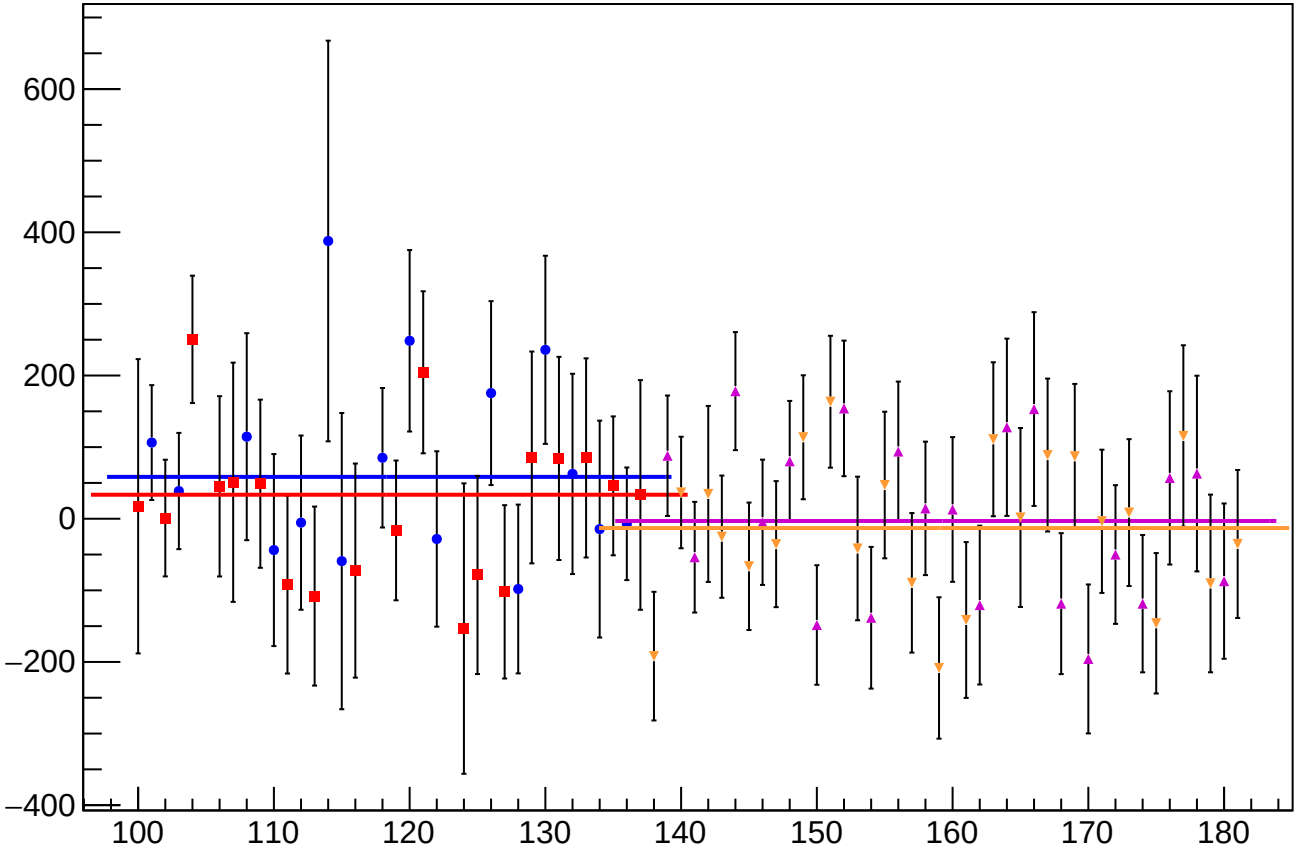
Right: 2246.139+/-0.442 $\chi^2$/NDF: 3668614.7/34

In: 1641.955+/-0.245 $\chi^2$/NDF:3791748.0/36

Out: 1615.447+/-0.234 $\chi^2$/NDF:3927455.6/41

All: 1628.116+/-0.169 $\chi^2$/NDF: 7725329.2/78

# diff_bpm0r05X_mean vs Slug, Sign Corrected




Right In: 58.446+/-28.918 $\chi^2$/NDF: 11.3/15

Left Out: -12.997+/-20.661 $\chi^2$/NDF:23.7/22

Right Out: 33.520+/-28.106 $\chi^2$/NDF: 14.7/18

Left In: -3.128+/-21.217 $\chi^2$/NDF:27.3/20

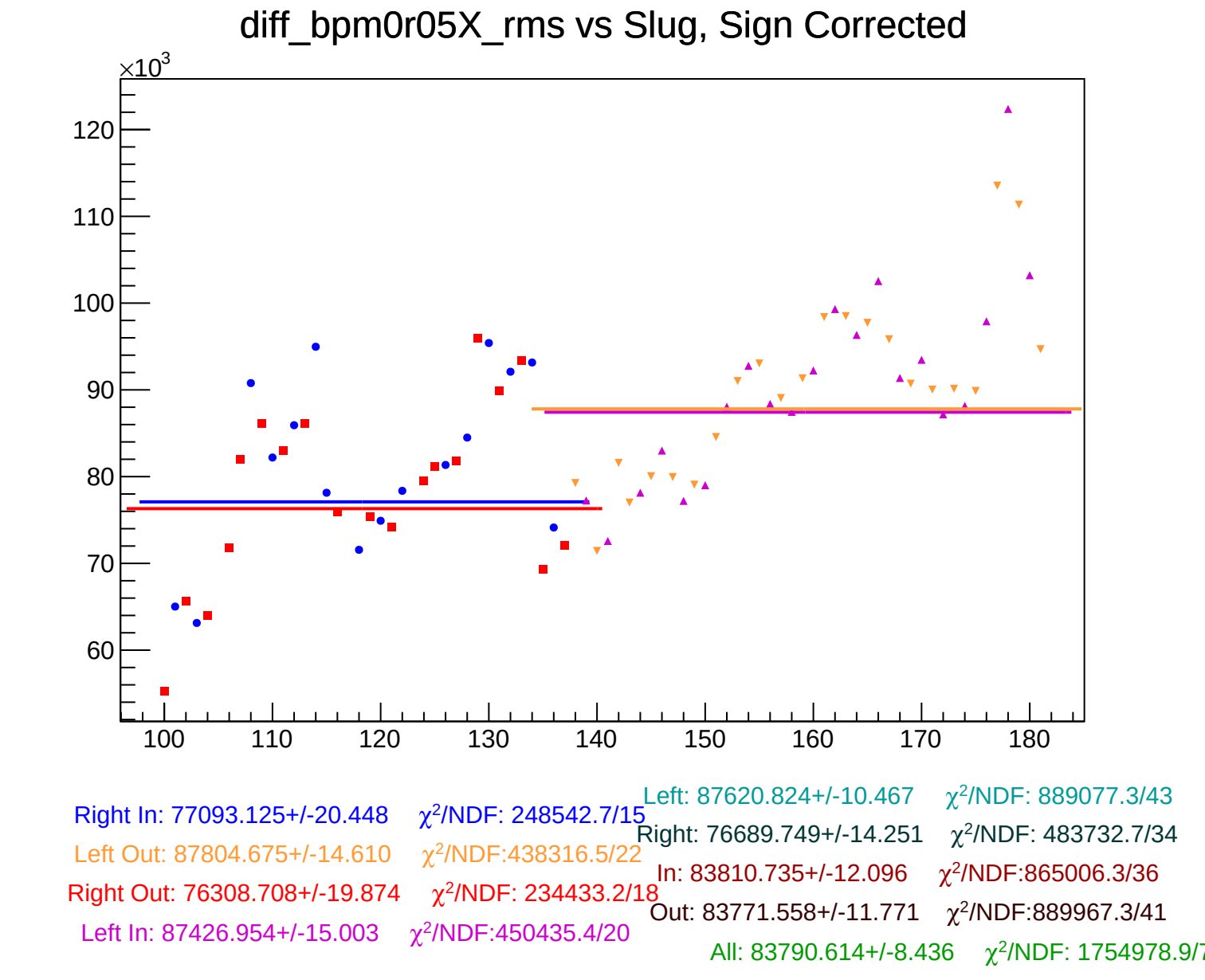
Left: -8.193+/-14.802 $\chi^2$/NDF: 51.1/43

Right: 45.628+/-20.155 $\chi^2$/NDF: 26.4/34

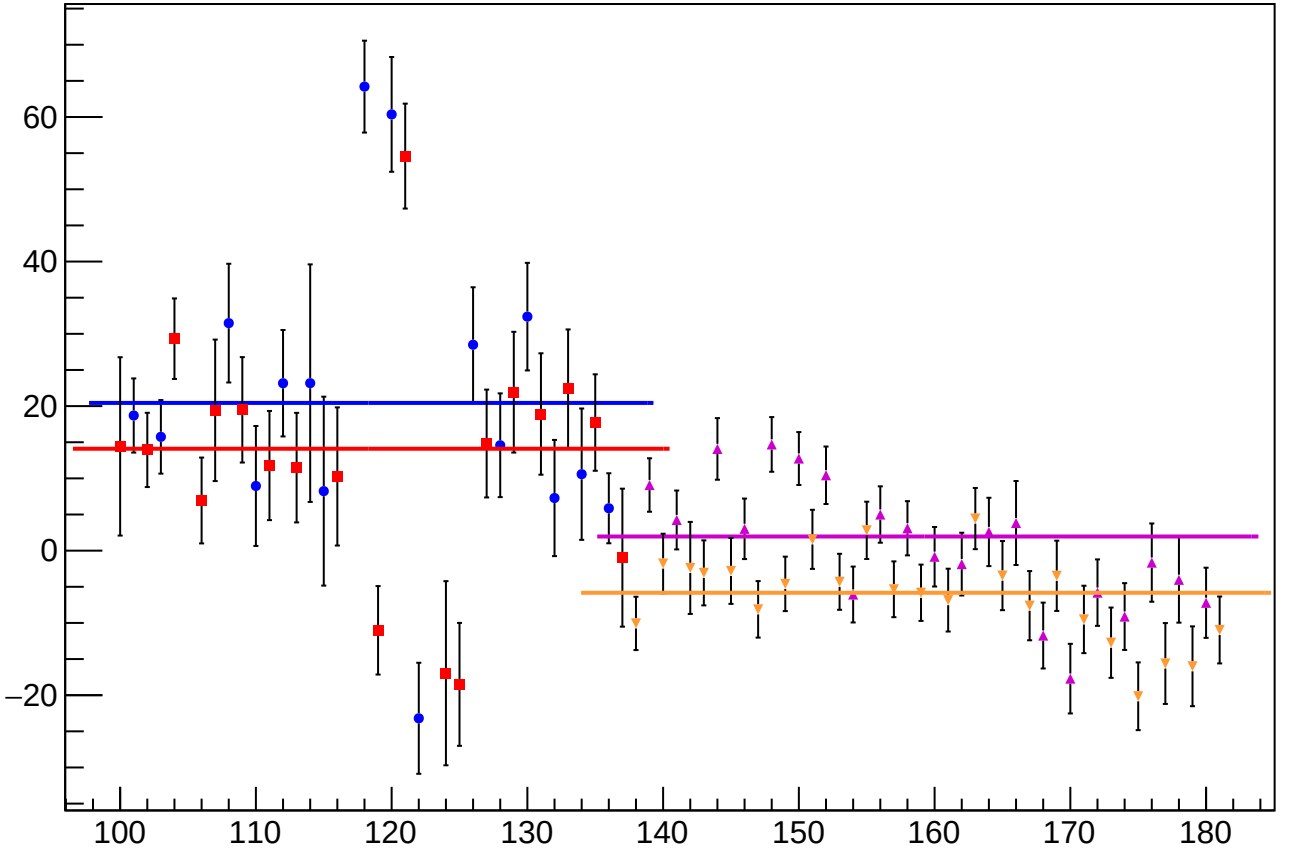
In: 18.419+/-17.106 $\chi^2$/NDF:41.5/36

Out: 3.322+/-16.647 $\chi^2$/NDF:40.2/41

All: 10.666+/-11.930 $\chi^2$/NDF: 82.1/78


diff_bpm0r05X_rms vs Slug, Sign Corrected
×10^3
120
110
100
90
80
70
60
100
110
120
130
140
150
160
170
180
Right In: 77093.125+/-20.448 χ²/NDF: 248542.7/15
Left Out: 87804.675+/-14.610 χ²/NDF:438316.5/22
Right Out: 76308.708+/-19.874 χ²/NDF: 234433.2/18
Left In: 87426.954+/-15.003 χ²/NDF:450435.4/20
Left: 87620.824+/-10.467 χ²/NDF: 889077.3/43
Right: 76689.749+/-14.251 χ²/NDF: 483732.7/34
In: 83810.735+/-12.096 χ²/NDF:865006.3/36
Out: 83771.558+/-11.771 χ²/NDF:889967.3/41
All: 83790.614+/-8.436 χ²/NDF: 1754978.9/7

# diff_bpm0r05Y_mean vs Slug, Sign Corrected




Right In: 20.441+/-1.782 $\chi^2$/NDF: 127.8/15

Left Out: -5.829+/-0.914 $\chi^2$/NDF:38.2/22

Right Out: 14.102+/-1.714 $\chi^2$/NDF: 83.8/18

Left In: 1.959+/-0.939 $\chi^2$/NDF:82.5/20

Left: -2.041+/-0.655 $\chi^2$/NDF: 156.0/43

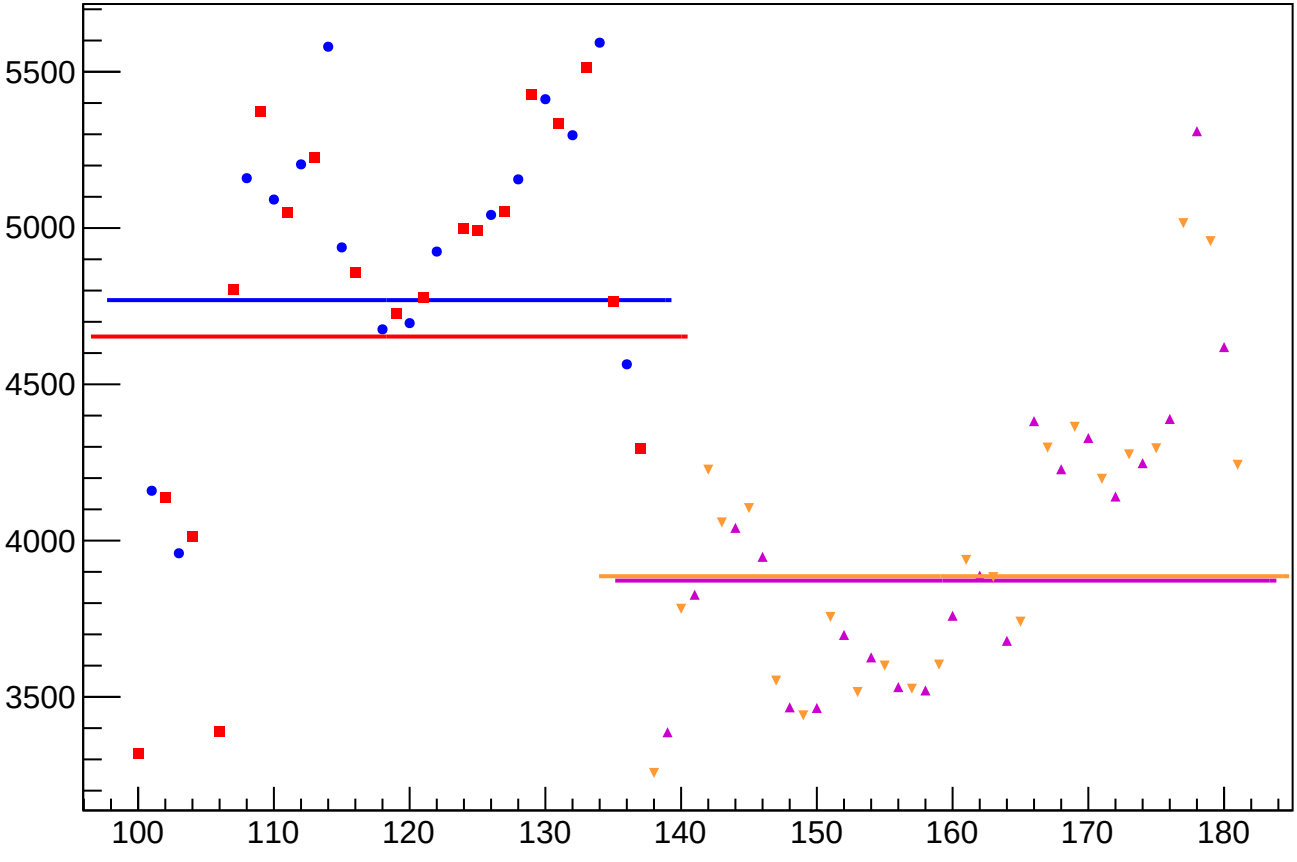
Right: 17.148+/-1.235 $\chi^2$/NDF: 218.2/34

In: 5.977+/-0.831 $\chi^2$/NDF:294.5/36

Out: -1.414+/-0.806 $\chi^2$/NDF:227.3/41

All: 2.171+/-0.579 $\chi^2$/NDF: 562.6/78

# diff_bpm0r05Y_rms vs Slug, Sign Corrected




Right In: 4769.375+/-1.260 $\chi^2$/NDF: 151678.3/15

Left Out: 3886.036+/-0.646 $\chi^2$/NDF:415908.3/22

Right Out: 4652.924+/-1.212 $\chi^2$/NDF: 265116.1/18

Left In: 3872.089+/-0.664 $\chi^2$/NDF:384687.5/20

Left: 3879.252+/-0.463 $\chi^2$/NDF: 800822.4/43

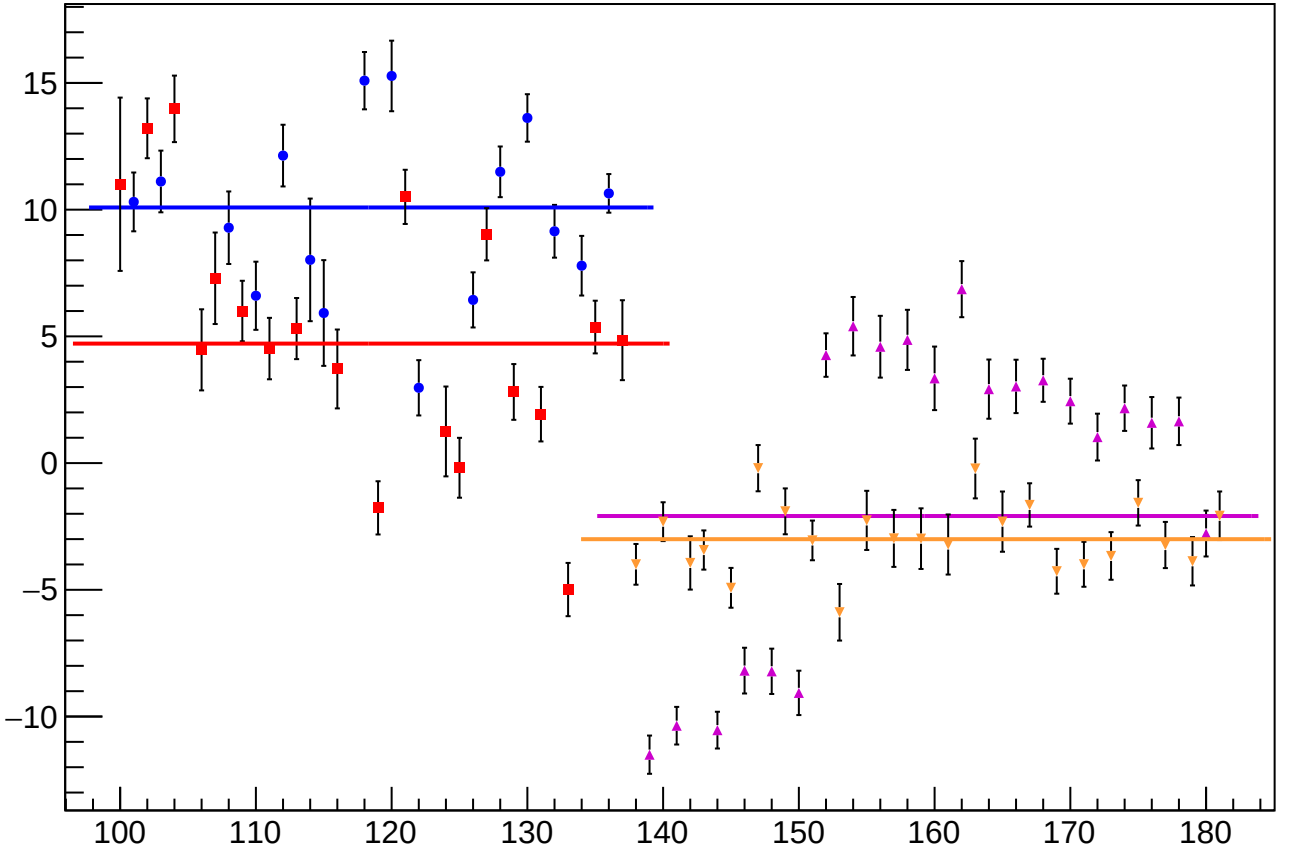
Right: 4708.872+/-0.873 $\chi^2$/NDF: 421232.0/34

In: 4067.152+/-0.587 $\chi^2$/NDF:933227.5/36

Out: 4055.888+/-0.570 $\chi^2$/NDF:992881.1/41

All: 4061.352+/-0.409 $\chi^2$/NDF: 1926297.9/78

# diff_bpm2i01X_mean vs Slug, Sign Corrected




Right In: 10.086+/-0.288 $\chi^2$/NDF: 123.9/15

Left Out: -3.002+/-0.195 $\chi^2$/NDF:44.0/22

Right Out: 4.715+/-0.286 $\chi^2$/NDF: 310.2/18

Left In: -2.088+/-0.203 $\chi^2$/NDF:988.8/20

Left: -2.564+/-0.141 $\chi^2$/NDF: 1043.4/43

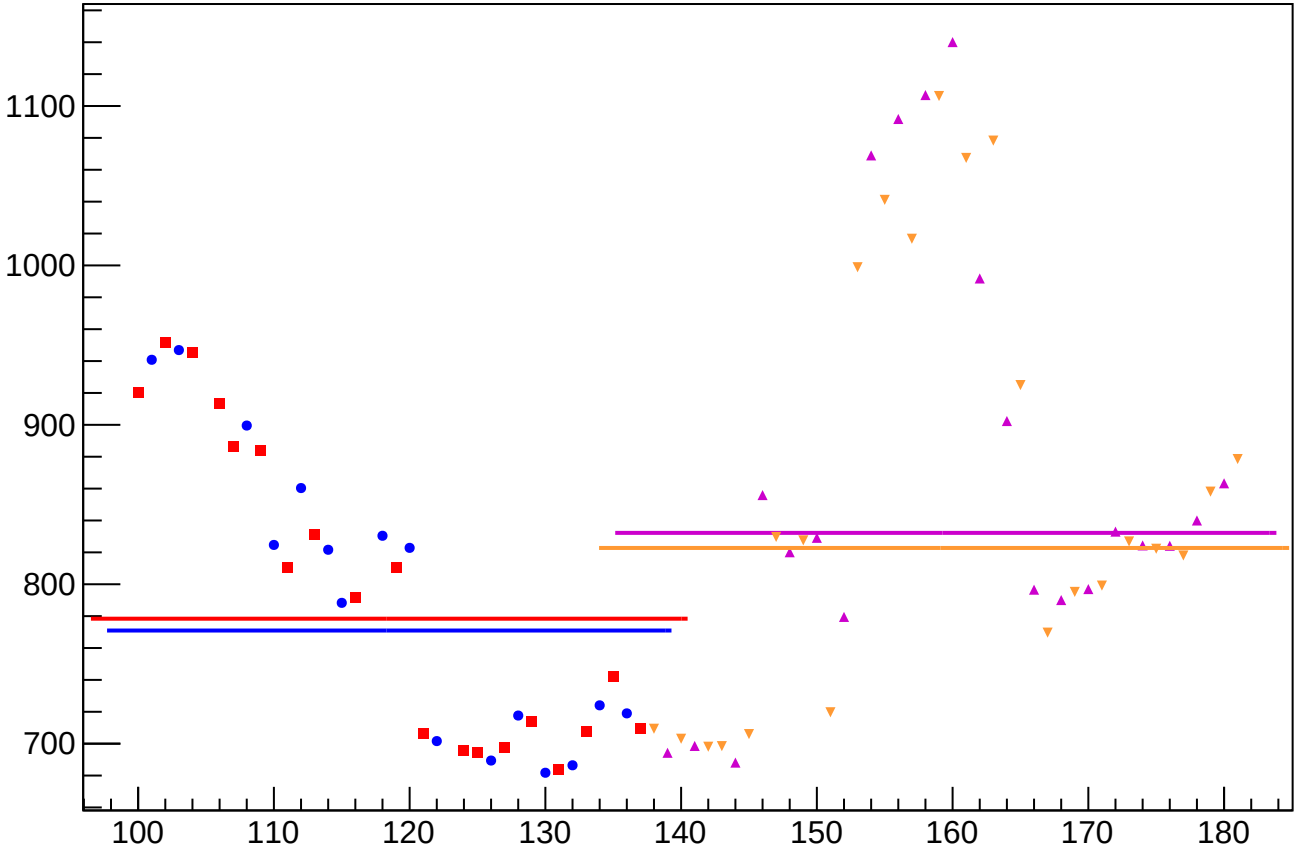
Right: 7.376+/-0.203 $\chi^2$/NDF: 609.2/34

In: 1.948+/-0.166 $\chi^2$/NDF:2304.2/36

Out: -0.554+/-0.161 $\chi^2$/NDF:852.3/41

All: 0.658+/-0.116 $\chi^2$/NDF: 3273.5/78

# diff_bpm2i01X_rms vs Slug, Sign Corrected




Right In: 770.973+/-0.204 $\chi^2$/NDF: 192911.9/15

Left Out: 822.767+/-0.138 $\chi^2$/NDF:753733.5/22

Right Out: 778.394+/-0.202 $\chi^2$/NDF: 196544.2/18

Left In: 832.226+/-0.144 $\chi^2$/NDF:684780.2/20

Left: 827.299+/-0.099 $\chi^2$/NDF: 1440773.2/43

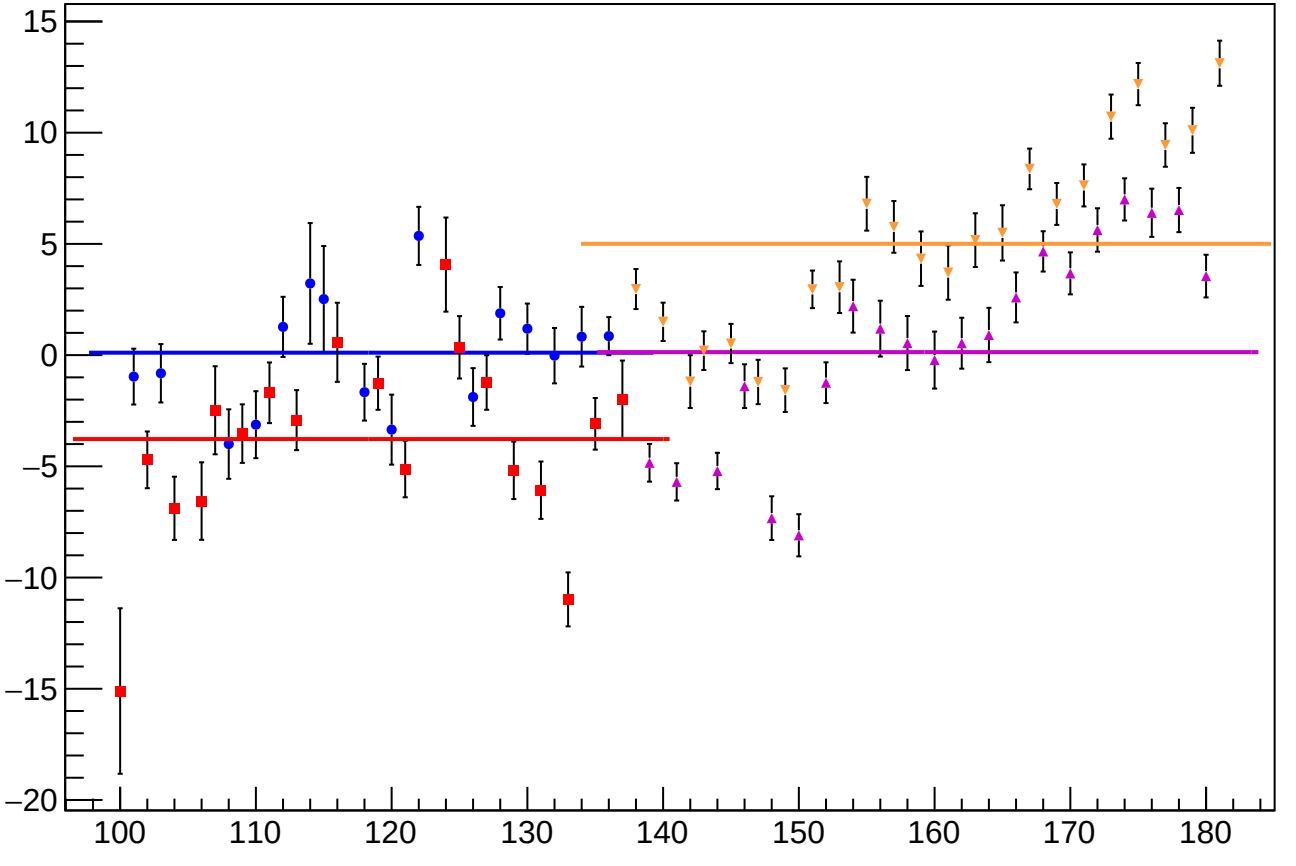
Right: 774.717+/-0.144 $\chi^2$/NDF: 390124.3/34

In: 811.918+/-0.117 $\chi^2$/NDF:938008.6/36

Out: 808.691+/-0.114 $\chi^2$/NDF:983204.1/41

All: 810.254+/-0.082 $\chi^2$/NDF: 1921602.1/78

# diff_bpm2i01Y_mean vs Slug, Sign Corrected




Right In: 0.109+/-0.330 $\chi^2$/NDF: 45.4/15

Left Out: 5.004+/-0.210 $\chi^2$/NDF:427.5/22

Right Out: -3.774+/-0.326 $\chi^2$/NDF: 99.6/18

Left In: 0.135+/-0.218 $\chi^2$/NDF:483.3/20

Left: 2.667+/-0.151 $\chi^2$/NDF: 1169.6/43

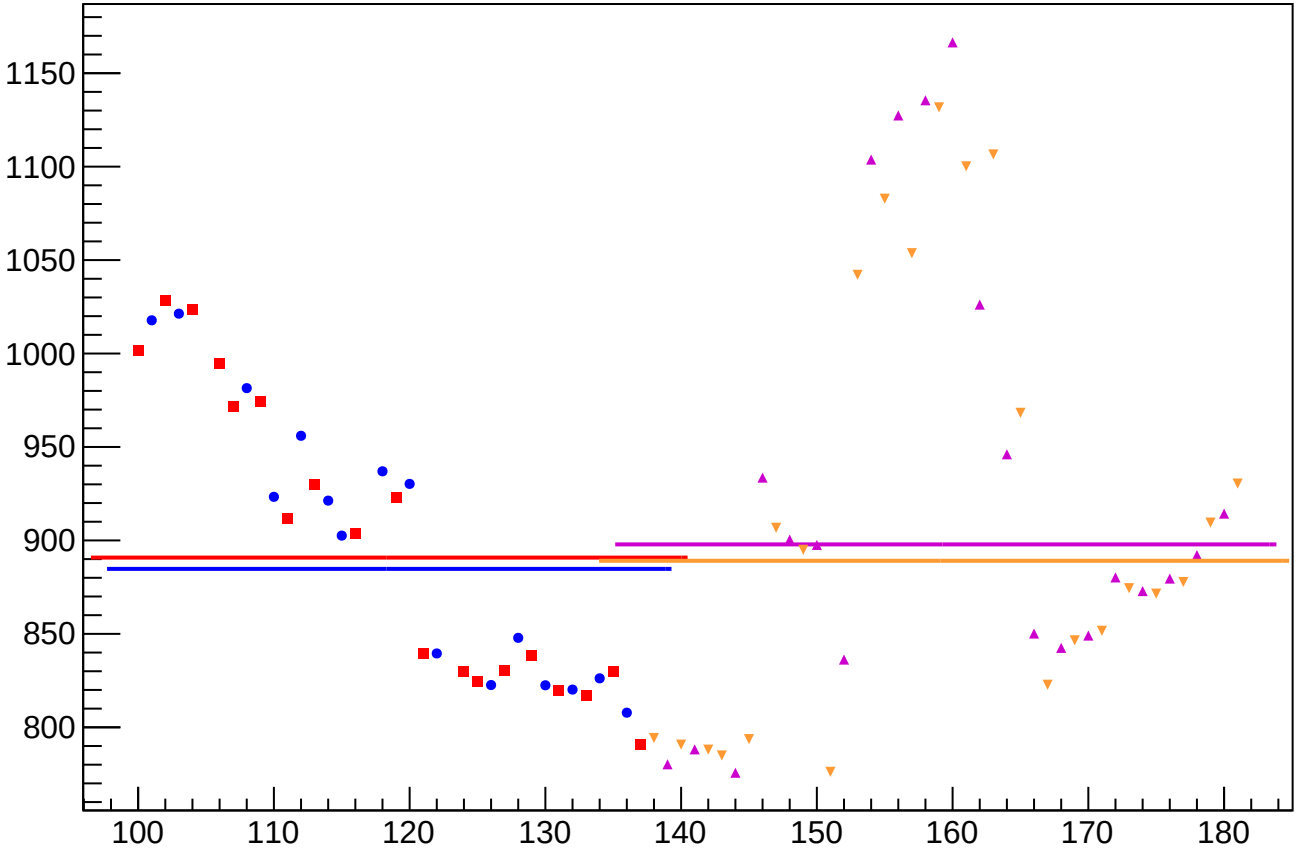
Right: -1.855+/-0.232 $\chi^2$/NDF: 215.0/34

In: 0.127+/-0.182 $\chi^2$/NDF:528.6/36

Out: 2.436+/-0.176 $\chi^2$/NDF:1039.8/41

All: 1.318+/-0.127 $\chi^2$/NDF: 1651.5/78

# diff_bpm2i01Y_rms vs Slug, Sign Corrected




Right In: 884.773+/-0.233 $\chi^2$/NDF: 104494.1/15

Left Out: 889.110+/-0.148 $\chi^2$/NDF:512180.6/22

Right Out: 890.815+/-0.231 $\chi^2$/NDF: 107763.6/18

Left In: 897.874+/-0.154 $\chi^2$/NDF:468433.8/20

Left: 893.316+/-0.107 $\chi^2$/NDF: 982291.6/43

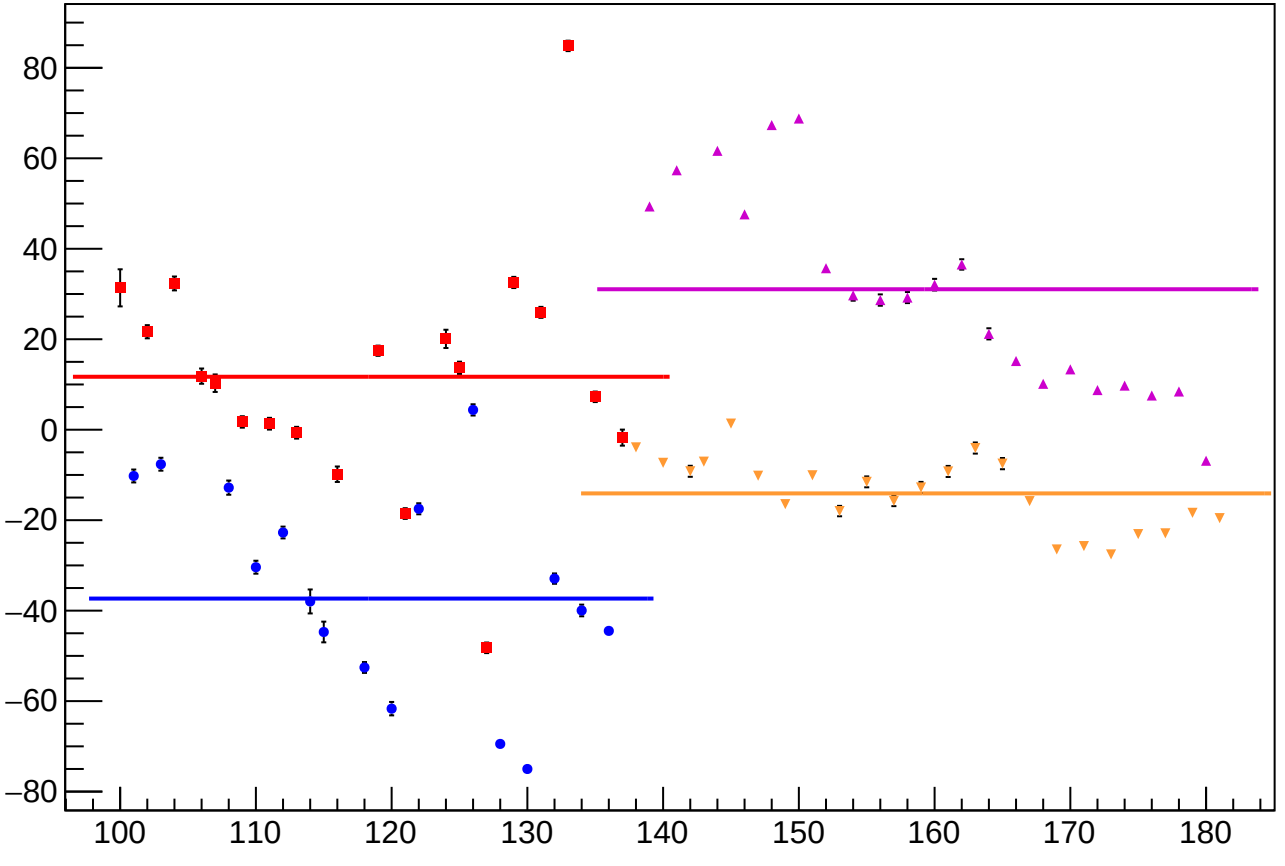
Right: 887.830+/-0.164 $\chi^2$/NDF: 212597.1/34

In: 893.886+/-0.129 $\chi^2$/NDF:575121.7/36

Out: 889.609+/-0.125 $\chi^2$/NDF:619983.0/41

All: 891.679+/-0.090 $\chi^2$/NDF: 1195674.2/78

# diff_bpm2i02X_mean vs Slug, Sign Corrected




Right In: -37.330+/-0.322 $\chi^2$/NDF: 5184.7/15

Left Out: -14.081+/-0.211 $\chi^2$/NDF:1466.2/22

Right Out: 11.706+/-0.318 $\chi^2$/NDF: 8463.6/18

Left In: 31.052+/-0.221 $\chi^2$/NDF:10278.3/20

Left: 7.487+/-0.153 $\chi^2$/NDF: 33541.3/43

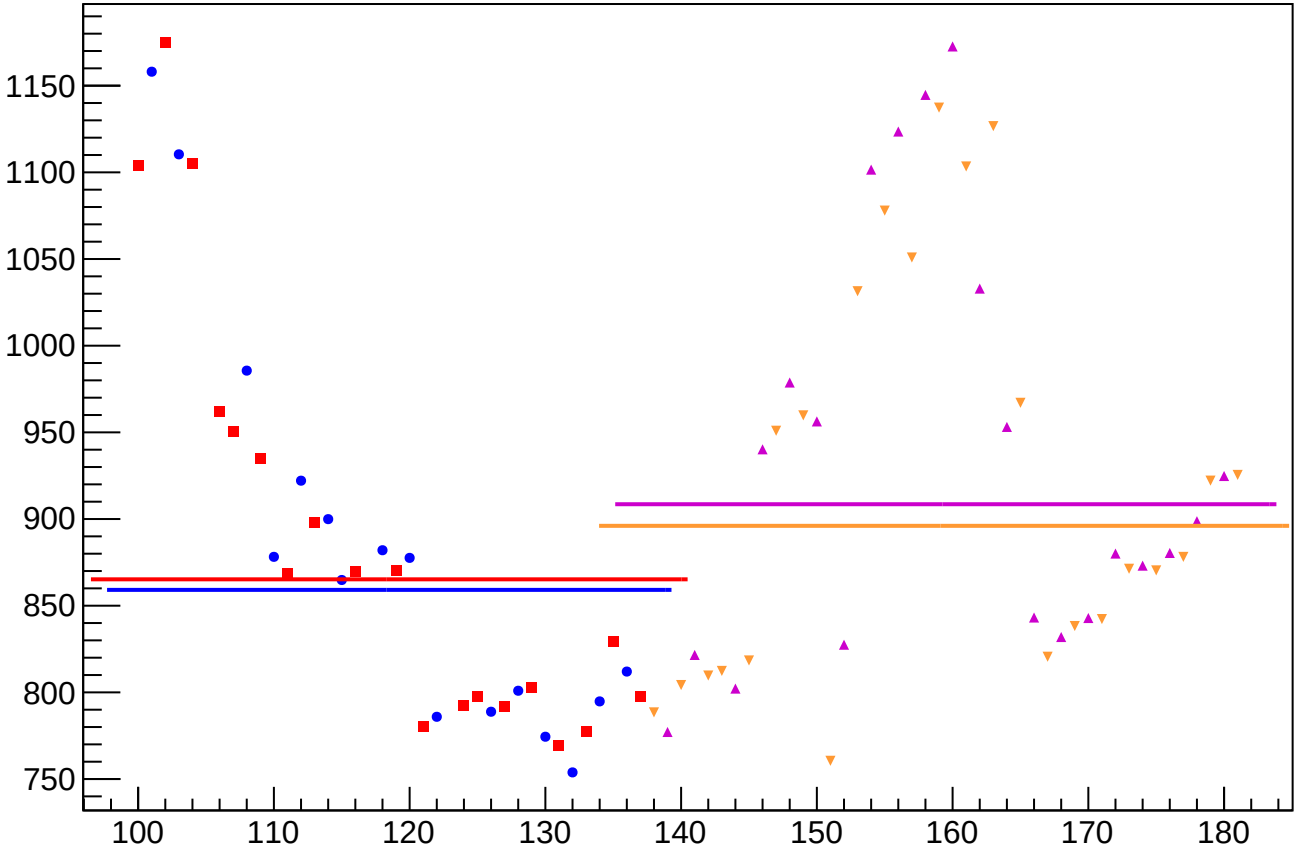
Right: -12.519+/-0.226 $\chi^2$/NDF: 25401.8/34

In: 9.145+/-0.182 $\chi^2$/NDF:46164.9/36

Out: -6.178+/-0.176 $\chi^2$/NDF:14493.0/41

All: 1.222+/-0.127 $\chi^2$/NDF: 64318.8/78

# diff_bpm2i02X_rms vs Slug, Sign Corrected




Right In: 859.126+/-0.228 $\chi^2$/NDF: 228710.0/15

Left Out: 896.076+/-0.149 $\chi^2$/NDF:513757.9/22

Right Out: 865.213+/-0.225 $\chi^2$/NDF: 223669.1/18

Left In: 908.538+/-0.156 $\chi^2$/NDF:464949.4/20

Left: 902.031+/-0.108 $\chi^2$/NDF: 982031.2/43

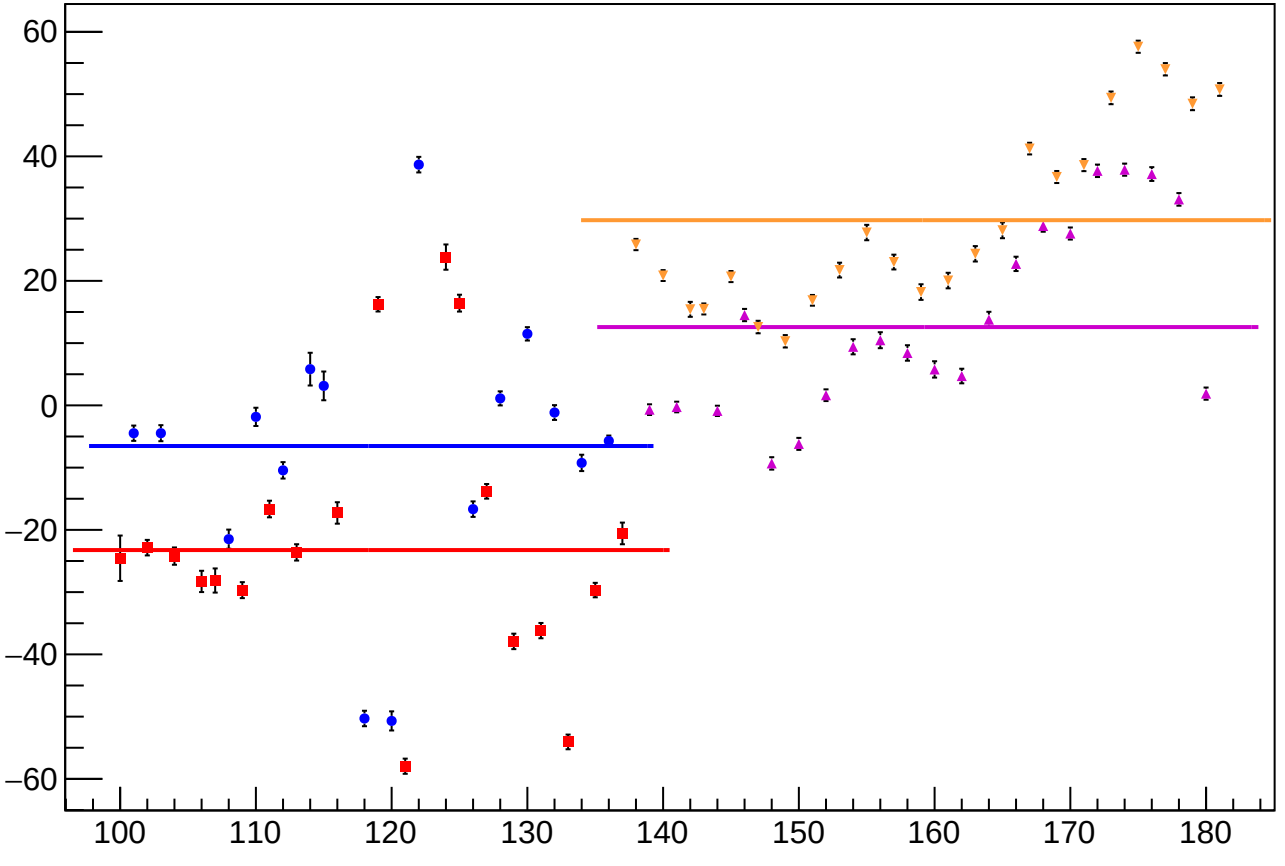
Right: 862.206+/-0.160 $\chi^2$/NDF: 452741.3/34

In: 892.708+/-0.129 $\chi^2$/NDF:725720.6/36

Out: 886.617+/-0.124 $\chi^2$/NDF:750499.2/41

All: 889.559+/-0.089 $\chi^2$/NDF: 1477376.6/78

# diff_bpm2i02Y_mean vs Slug, Sign Corrected




Right In: -6.529+/-0.321 $\chi^2$/NDF: 3946.1/15

Left Out: 29.747+/-0.214 $\chi^2$/NDF:4566.9/22

Right Out: -23.244+/-0.317 $\chi^2$/NDF: 4470.0/18

Left In: 12.578+/-0.223 $\chi^2$/NDF:4764.1/20

Left: 21.513+/-0.154 $\chi^2$/NDF: 12420.2/43

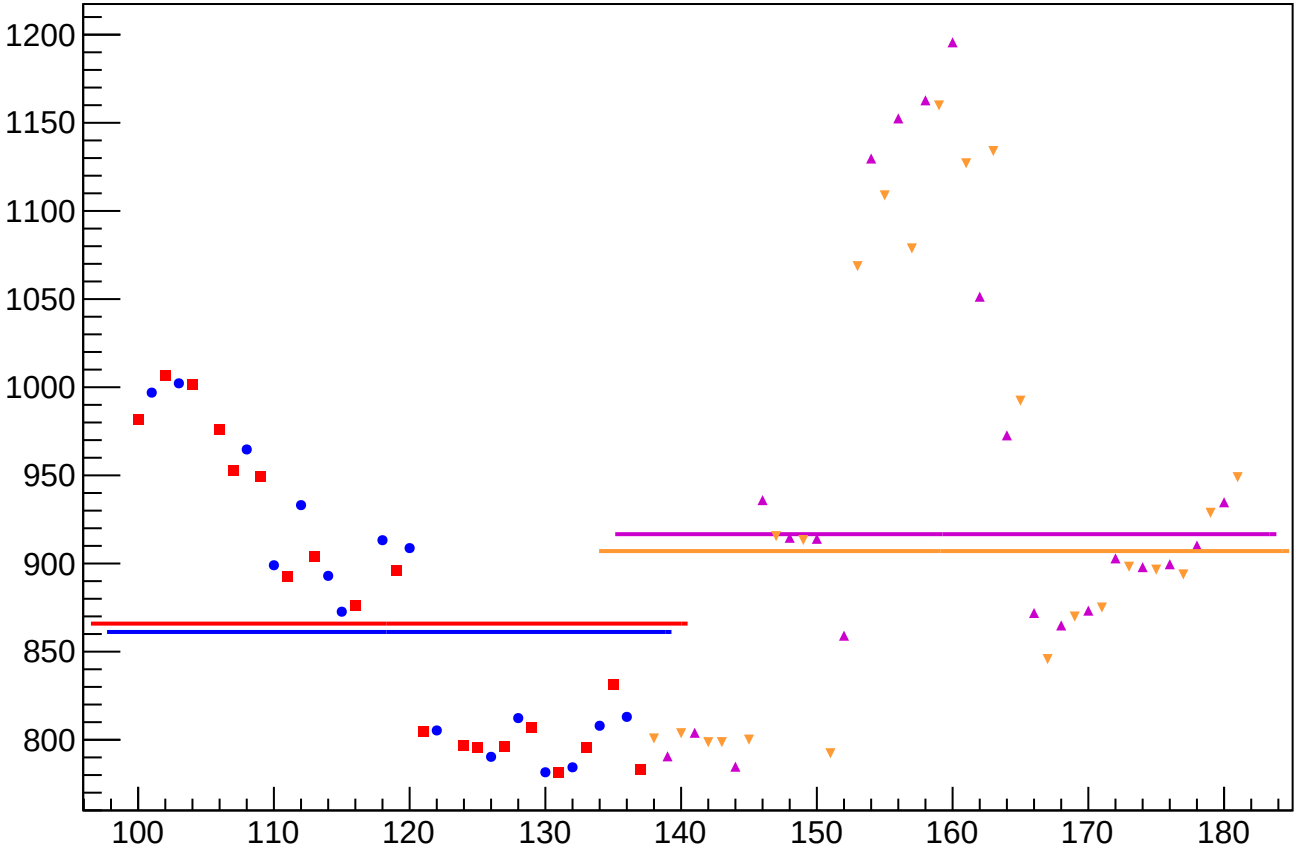
Right: -14.995+/-0.226 $\chi^2$/NDF: 9787.9/34

In: 6.370+/-0.183 $\chi^2$/NDF:11099.1/36

Out: 13.167+/-0.177 $\chi^2$/NDF:28234.8/41

All: 9.877+/-0.127 $\chi^2$/NDF: 40045.0/78

# diff_bpm2i02Y_rms vs Slug, Sign Corrected




Right In: 861.169+/-0.227 $\chi^2$/NDF: 113529.7/15

Left Out: 907.059+/-0.151 $\chi^2$/NDF:535786.1/22

Right Out: 865.907+/-0.224 $\chi^2$/NDF: 118418.0/18

Left In: 916.646+/-0.158 $\chi^2$/NDF:480551.7/20

Left: 911.657+/-0.109 $\chi^2$/NDF: 1018264.1/43

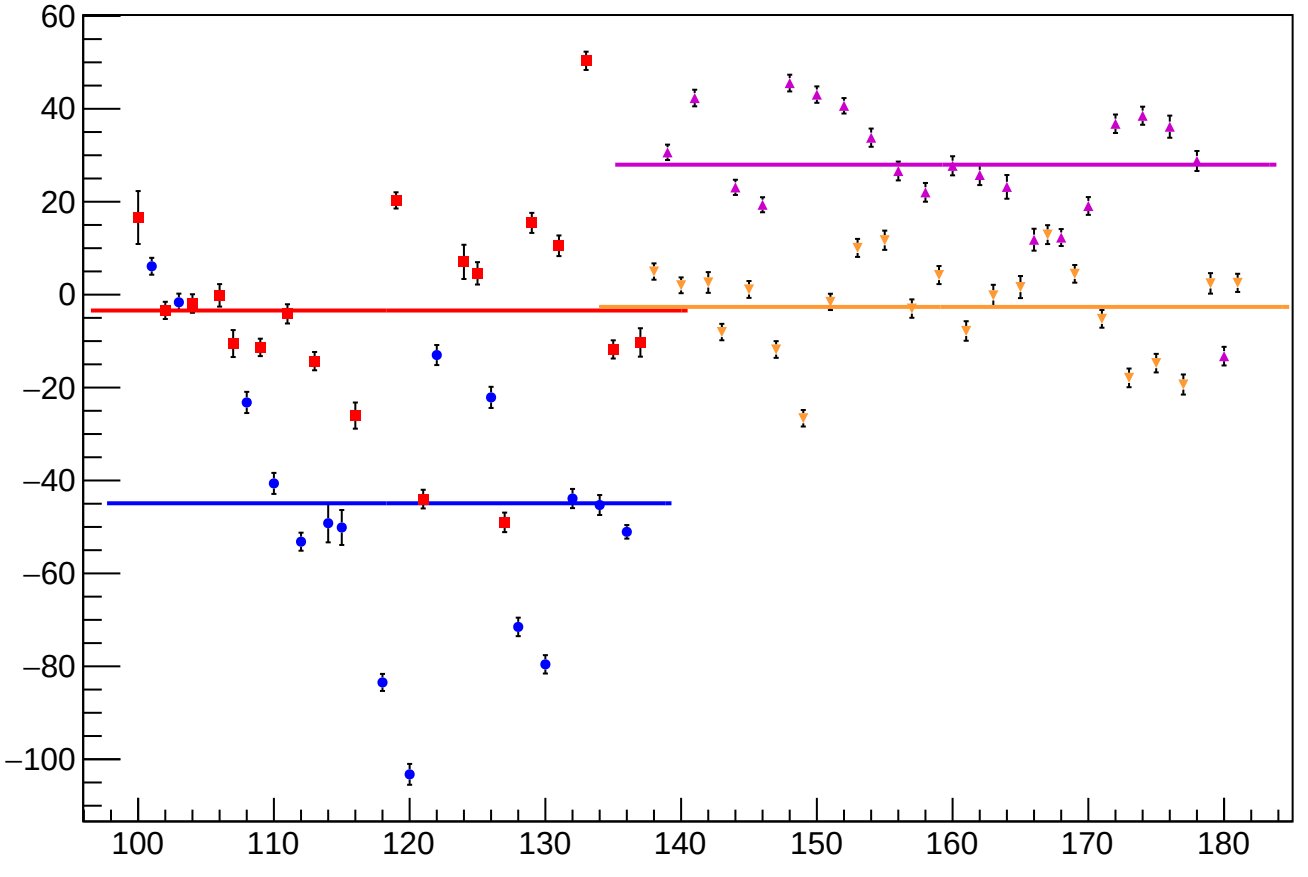
Right: 863.569+/-0.160 $\chi^2$/NDF: 232168.2/34

In: 898.620+/-0.129 $\chi^2$/NDF:634359.1/36

Out: 894.183+/-0.125 $\chi^2$/NDF:677359.6/41

All: 896.330+/-0.090 $\chi^2$/NDF: 1312324.7/78

# diff_bpm0i02X_mean vs Slug, Sign Corrected




Right In: -44.905+/-0.520 $\chi^2$/NDF: 3377.6/15

Left Out: -2.639+/-0.407 $\chi^2$/NDF:608.3/22

Right Out: -3.416+/-0.509 $\chi^2$/NDF: 2102.1/18

Left In: 27.974+/-0.420 $\chi^2$/NDF:978.1/20

Left: 12.205+/-0.292 $\chi^2$/NDF: 4328.7/43

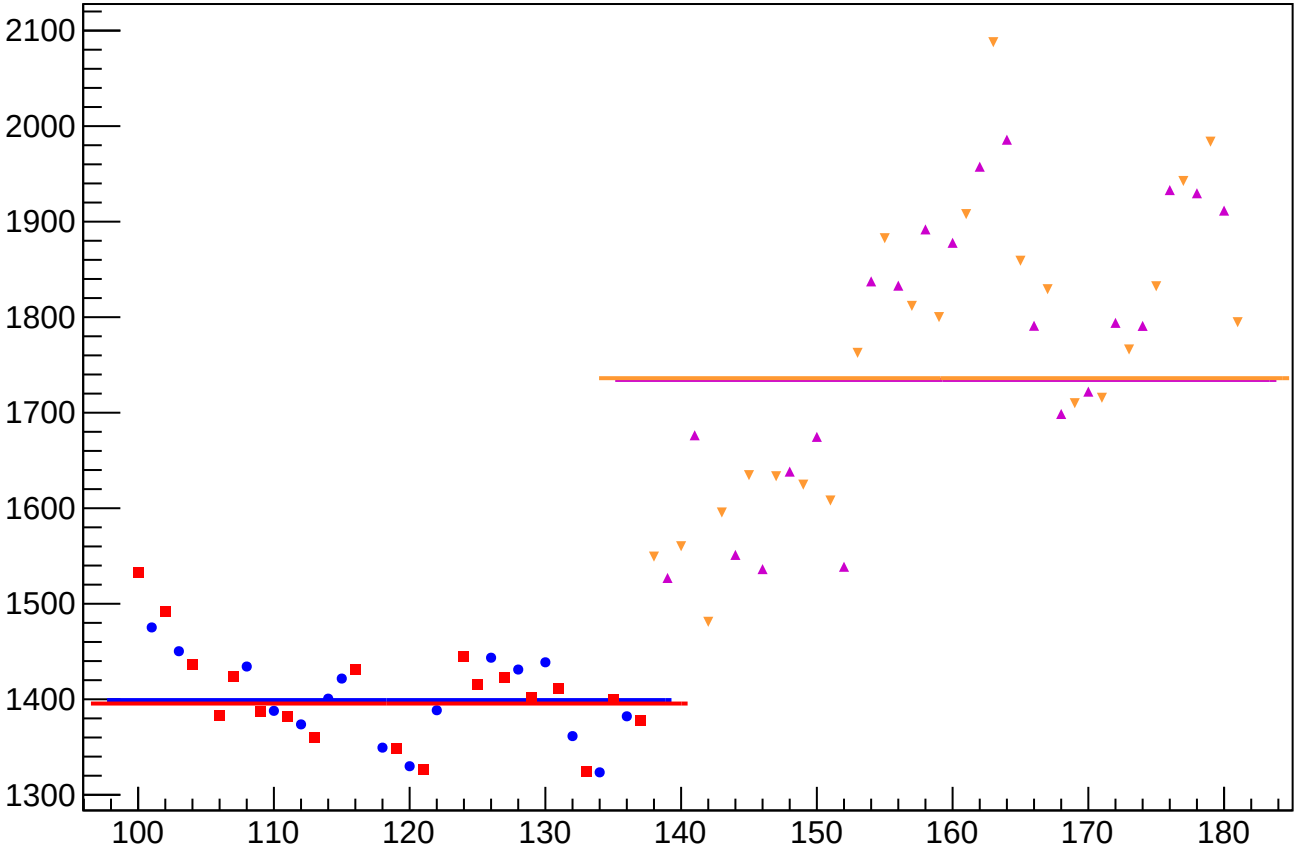
Right: -23.727+/-0.364 $\chi^2$/NDF: 8730.3/34

In: -0.770+/-0.327 $\chi^2$/NDF:16255.6/36

Out: -2.942+/-0.318 $\chi^2$/NDF:2711.9/41

All: -1.885+/-0.228 $\chi^2$/NDF: 18990.2/78

# diff_bpm0i02X_rms vs Slug, Sign Corrected




Right In: 1399.172+/-0.368 $\chi^2$/NDF: 14844.1/15

Left Out: 1736.141+/-0.288 $\chi^2$/NDF:251209.3/22

Right Out: 1395.546+/-0.360 $\chi^2$/NDF: 16240.9/18

Left In: 1734.327+/-0.297 $\chi^2$/NDF:247951.9/20

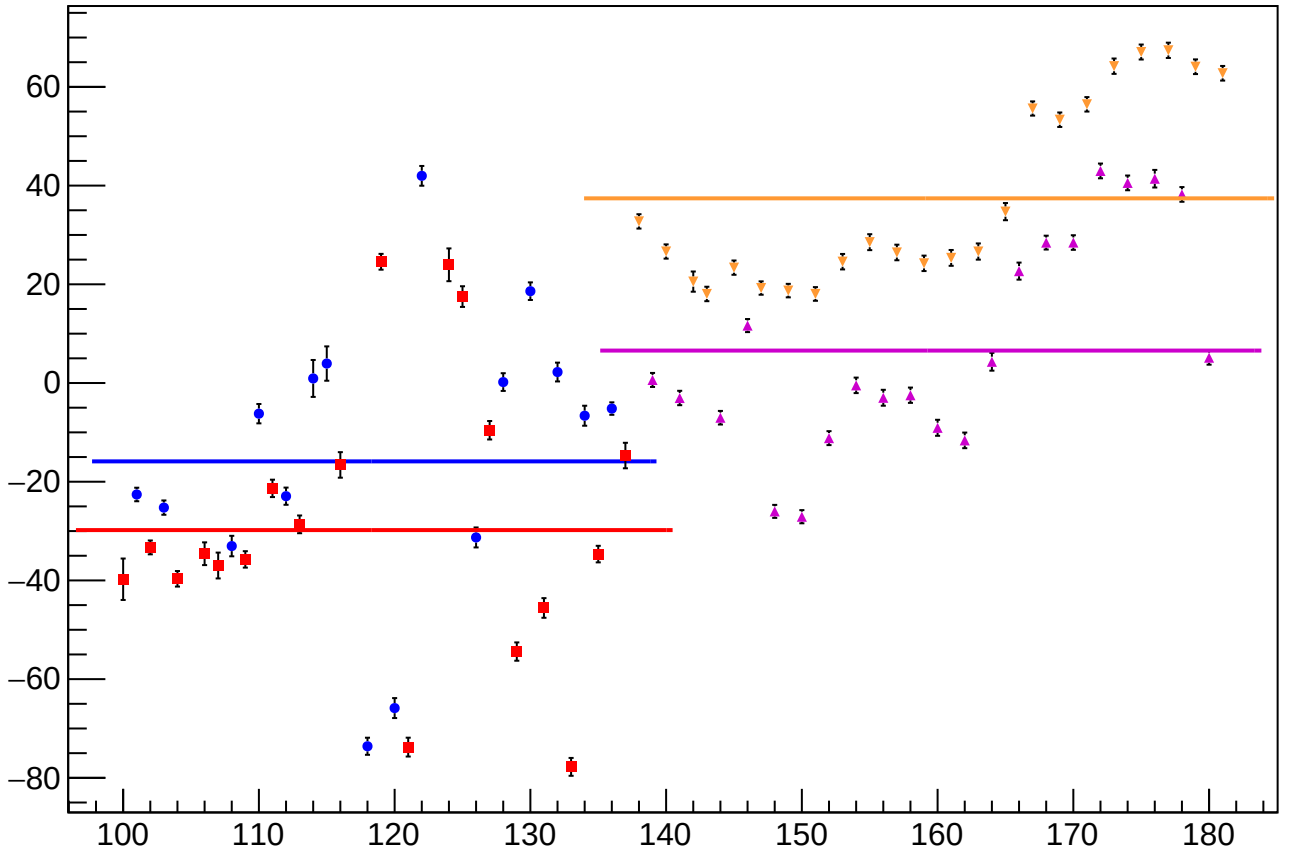
Left: 1735.261+/-0.207 $\chi^2$/NDF: 499180.5/43

Right: 1397.321+/-0.257 $\chi^2$/NDF: 31134.7/34

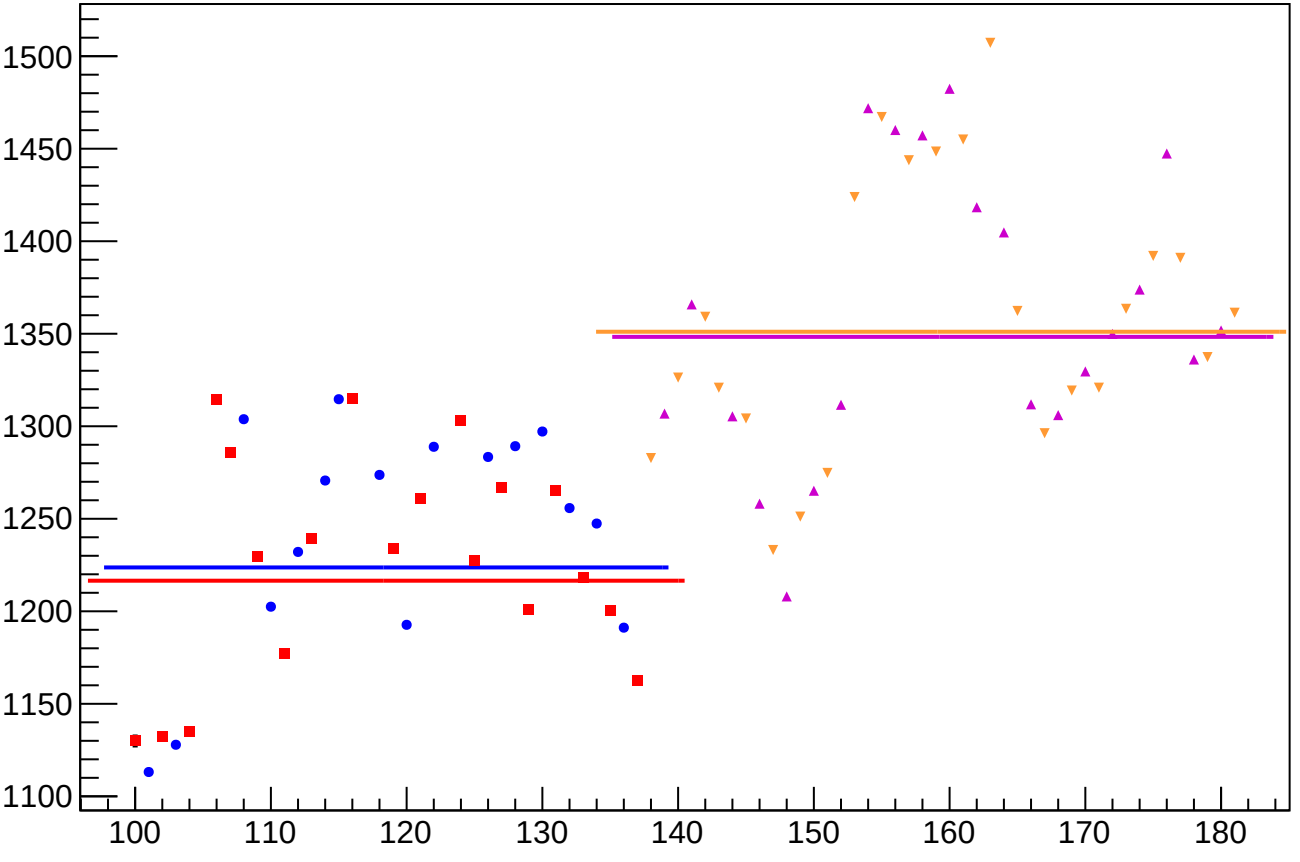
In: 1602.138+/-0.231 $\chi^2$/NDF:766137.9/36

Out: 1603.327+/-0.225 $\chi^2$/NDF:813426.0/41

All: 1602.748+/-0.161 $\chi^2$/NDF: 1579577.5/78


diff_bpm0i02Y_mean vs Slug, Sign Corrected
60
40
20
0
−20
−40
−60
−80
100
110
120
130
140
150
160
170
180
Right In: -15.878+/-0.455 χ²/NDF: 3477.8/15
Left Out: 37.416+/-0.316 χ²/NDF:3395.0/22
Right Out: -29.801+/-0.444 χ²/NDF: 3681.2/18
Left In: 6.573+/-0.325 χ²/NDF:4385.1/20
Left: 22.434+/-0.227 χ²/NDF: 12402.5/43
Right: -23.008+/-0.318 χ²/NDF: 7638.0/34
In: -1.016+/-0.265 χ²/NDF:9472.9/36
Out: 14.824+/-0.258 χ²/NDF:22267.1/41
All: 7.118+/-0.185 χ²/NDF: 33579.3/78

# diff_bpm0i02Y_rms vs Slug, Sign Corrected




Right In: 1223.702+/-0.322 $\chi^2$/NDF: 40883.8/15

Left Out: 1351.084+/-0.224 $\chi^2$/NDF:103541.2/22

Right Out: 1216.533+/-0.314 $\chi^2$/NDF: 29381.0/18

Left In: 1348.312+/-0.230 $\chi^2$/NDF:106305.2/20

Left: 1349.738+/-0.160 $\chi^2$/NDF: 209921.0/43

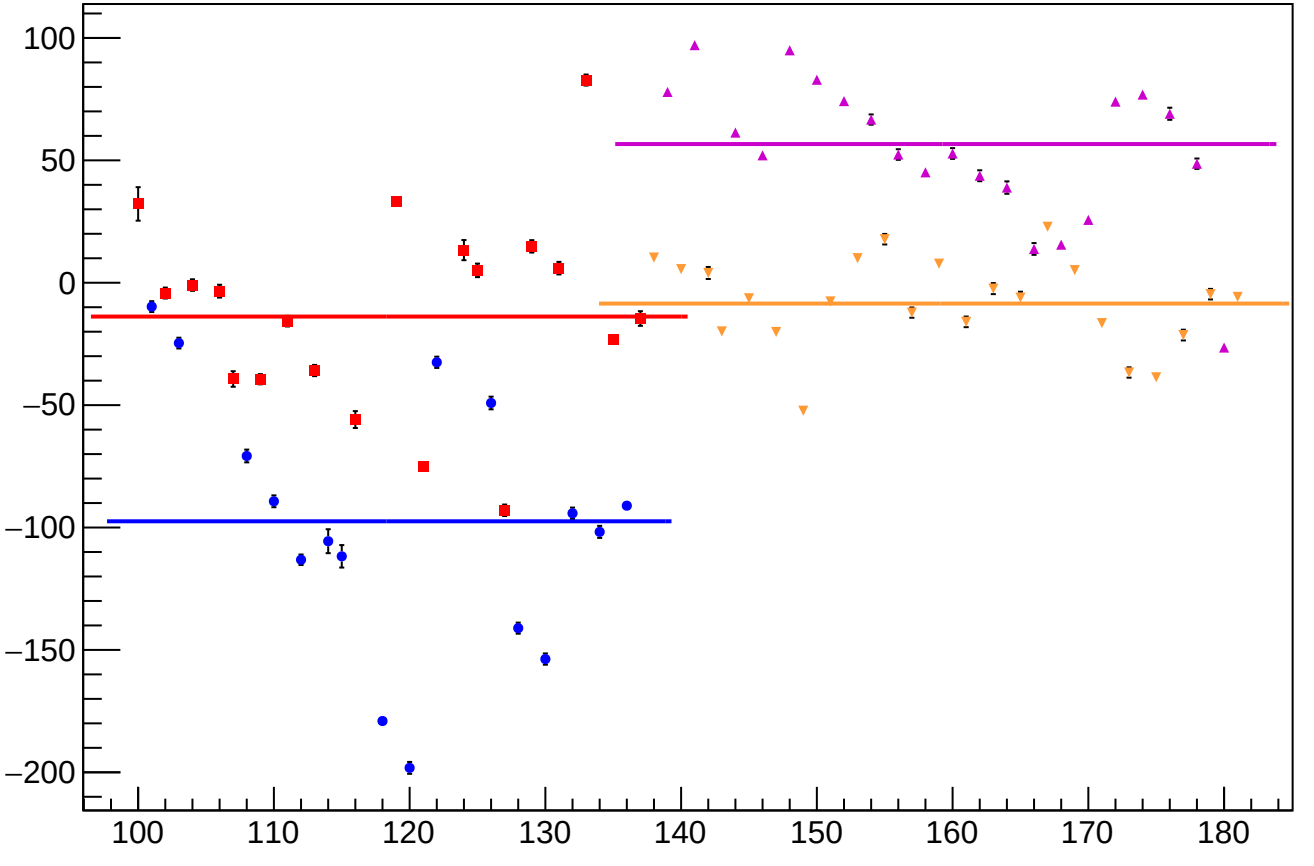
Right: 1220.031+/-0.225 $\chi^2$/NDF: 70518.8/34

In: 1306.189+/-0.187 $\chi^2$/NDF:246383.0/36

Out: 1305.861+/-0.182 $\chi^2$/NDF:254663.1/41

All: 1306.020+/-0.131 $\chi^2$/NDF: 501047.7/78

# diff_bpm0i02aX_mean vs Slug, Sign Corrected




Right In: -97.455+/-0.579 $\chi^2$/NDF: 8300.2/15

Left Out: -8.508+/-0.417 $\chi^2$/NDF:1936.4/22

Right Out: -13.816+/-0.566 $\chi^2$/NDF: 5352.2/18

Left In: 56.656+/-0.432 $\chi^2$/NDF:4522.2/20

Left: 22.965+/-0.300 $\chi^2$/NDF: 18235.3/43

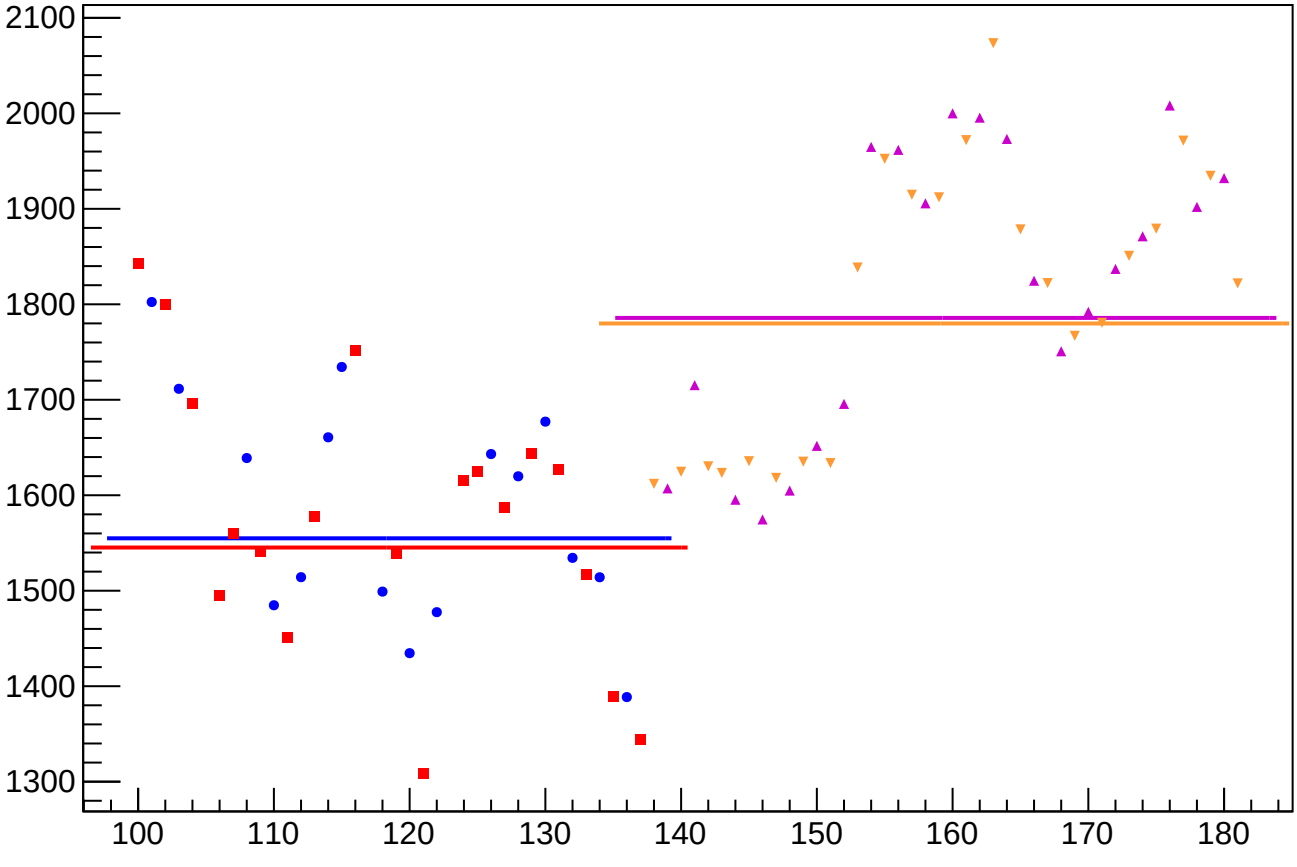
Right: -54.632+/-0.405 $\chi^2$/NDF: 24320.8/34

In: 1.634+/-0.346 $\chi^2$/NDF:58307.7/36

Out: -10.379+/-0.336 $\chi^2$/NDF:7345.6/41

All: -4.556+/-0.241 $\chi^2$/NDF: 66273.7/78

# diff_bpm0i02aX_rms vs Slug, Sign Corrected




Right In: 1554.908+/-0.410 $\chi^2$/NDF: 87920.1/15

Left Out: 1779.918+/-0.295 $\chi^2$/NDF:228691.1/22

Right Out: 1545.239+/-0.400 $\chi^2$/NDF: 108789.4/18

Left In: 1785.744+/-0.305 $\chi^2$/NDF:241034.2/20

Left: 1782.732+/-0.212 $\chi^2$/NDF: 469913.6/43

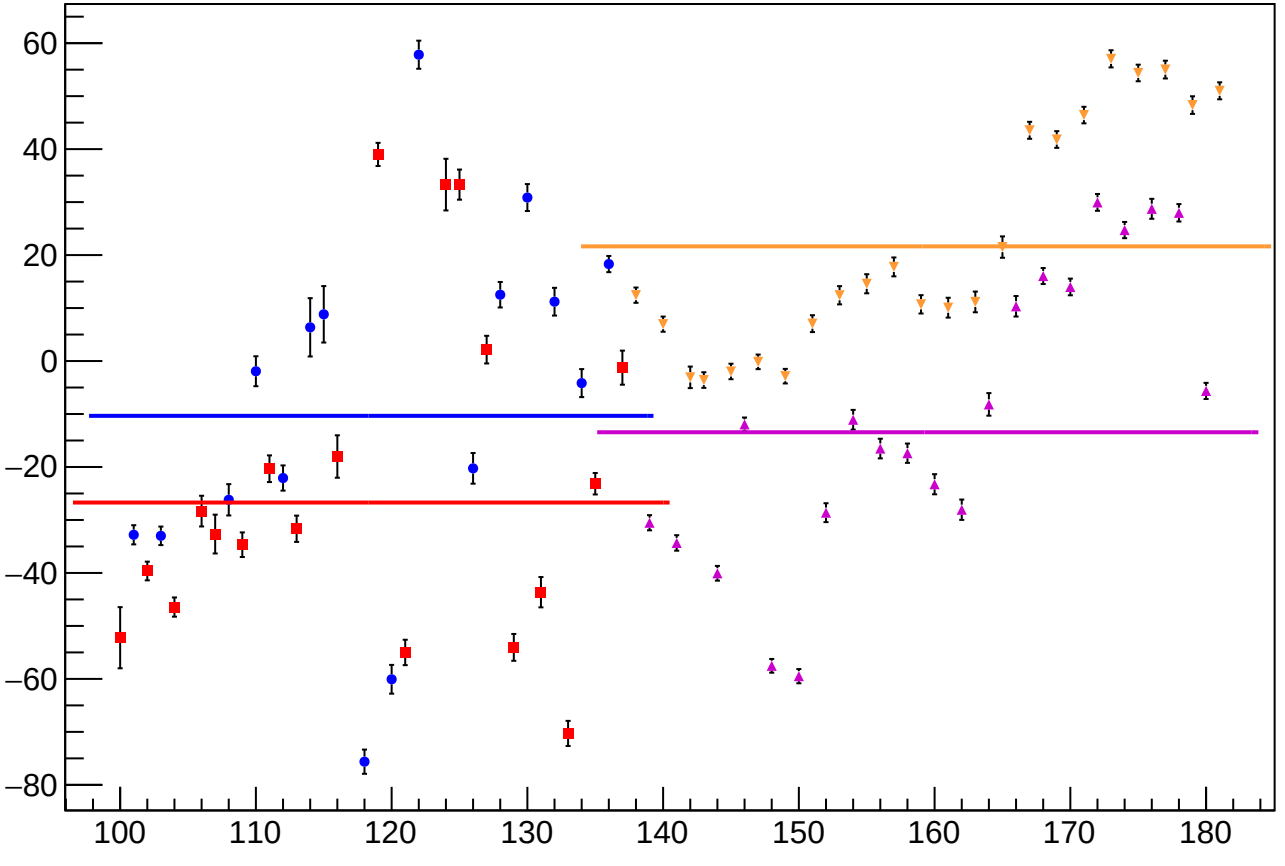
Right: 1549.957+/-0.286 $\chi^2$/NDF: 196994.7/34

In: 1703.329+/-0.245 $\chi^2$/NDF:533050.8/36

Out: 1697.208+/-0.237 $\chi^2$/NDF:560393.0/41

All: 1700.175+/-0.170 $\chi^2$/NDF: 1093765.9/78

# diff_bpm0i02aY_mean vs Slug, Sign Corrected




Right In: -10.345+/-0.603 $\chi^2$/NDF: 3007.0/15

Left Out: 21.642+/-0.338 $\chi^2$/NDF:4159.4/22

Right Out: -26.709+/-0.586 $\chi^2$/NDF: 2540.7/18

Left In: -13.442+/-0.349 $\chi^2$/NDF:6583.5/20

Left: 4.690+/-0.243 $\chi^2$/NDF: 15957.4/43

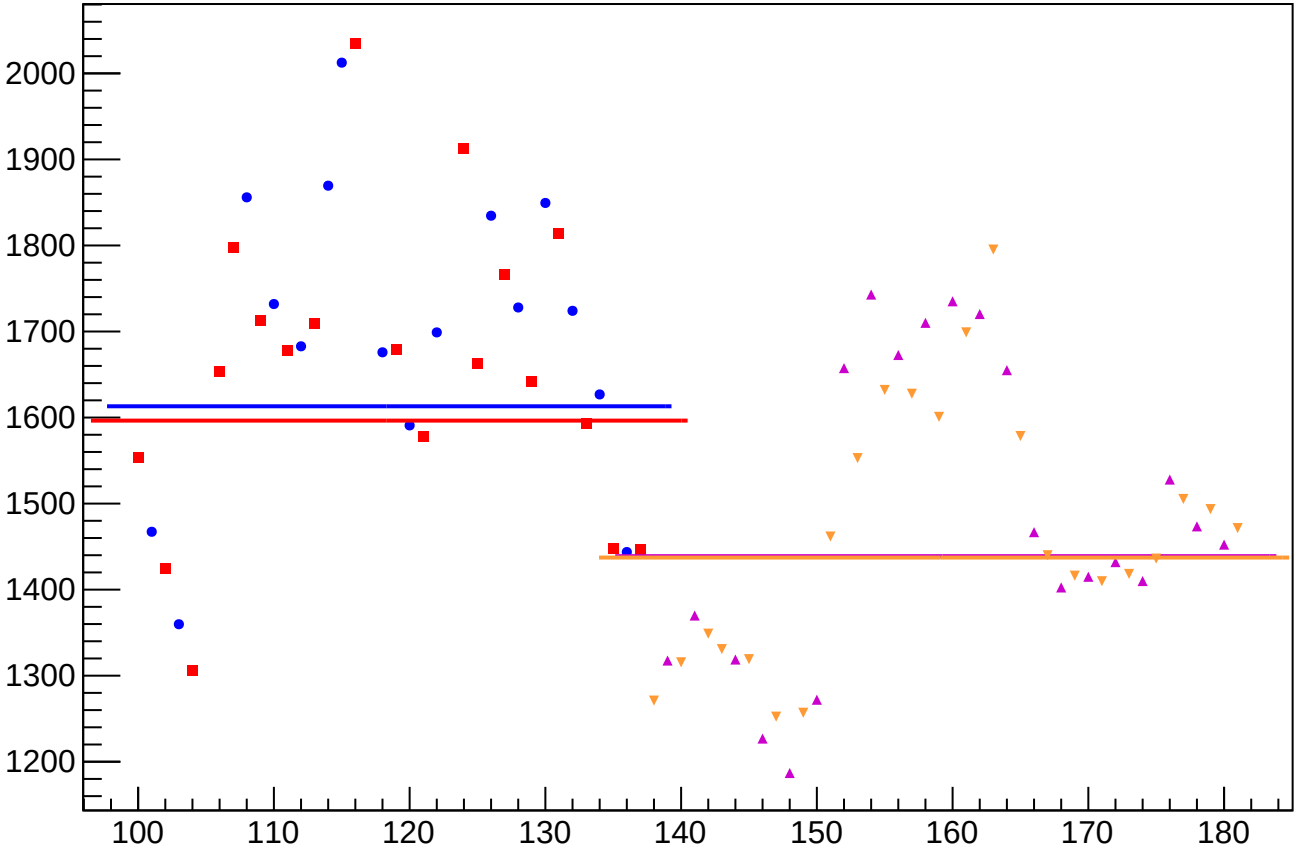
Right: -18.758+/-0.420 $\chi^2$/NDF: 5926.2/34

In: -12.664+/-0.302 $\chi^2$/NDF:9610.2/36

Out: 9.598+/-0.293 $\chi^2$/NDF:11806.1/41

All: -1.174+/-0.210 $\chi^2$/NDF: 24216.3/78

# diff_bpm0i02aY_rms vs Slug, Sign Corrected




Right In: 1613.094+/-0.426 $\chi^2$/NDF: 154710.6/15

Left Out: 1437.277+/-0.239 $\chi^2$/NDF:335766.4/22

Right Out: 1596.442+/-0.415 $\chi^2$/NDF: 160714.8/18

Left In: 1438.943+/-0.247 $\chi^2$/NDF:473762.3/20

Left: 1438.082+/-0.172 $\chi^2$/NDF: 809552.2/43

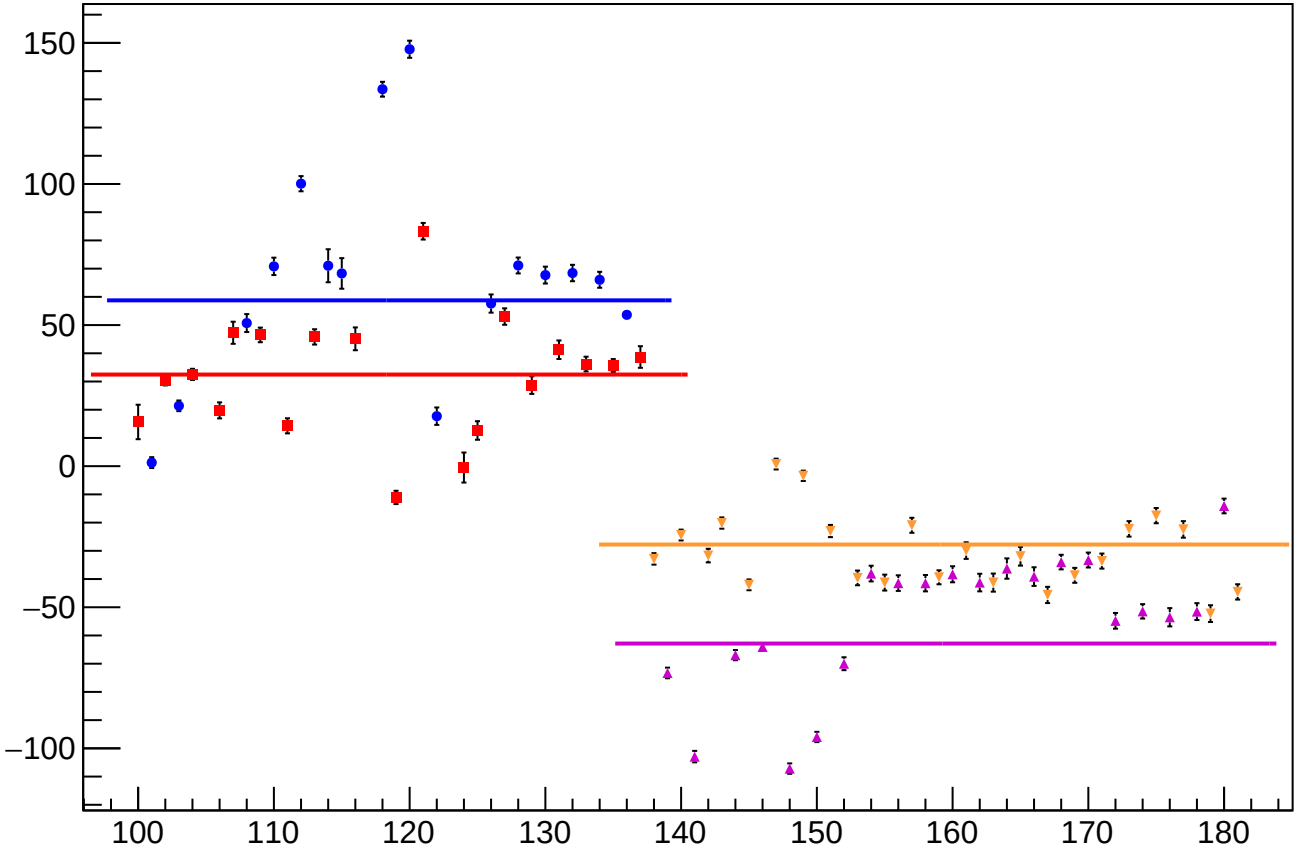
Right: 1604.533+/-0.297 $\chi^2$/NDF: 316209.2/34

In: 1482.680+/-0.214 $\chi^2$/NDF:753341.2/36

Out: 1476.925+/-0.207 $\chi^2$/NDF:607138.9/41

All: 1479.709+/-0.149 $\chi^2$/NDF: 1360854.4/78

# diff_bpm0i05X_mean vs Slug, Sign Corrected




Right In: 58.761+/-0.672 $\chi^2$/NDF: 3443.3/15

Left Out: -27.766+/-0.506 $\chi^2$/NDF:765.4/22

Right Out: 32.467+/-0.648 $\chi^2$/NDF: 930.8/18

Left In: -62.860+/-0.524 $\chi^2$/NDF:2417.3/20

Left: -44.695+/-0.364 $\chi^2$/NDF: 5503.7/43

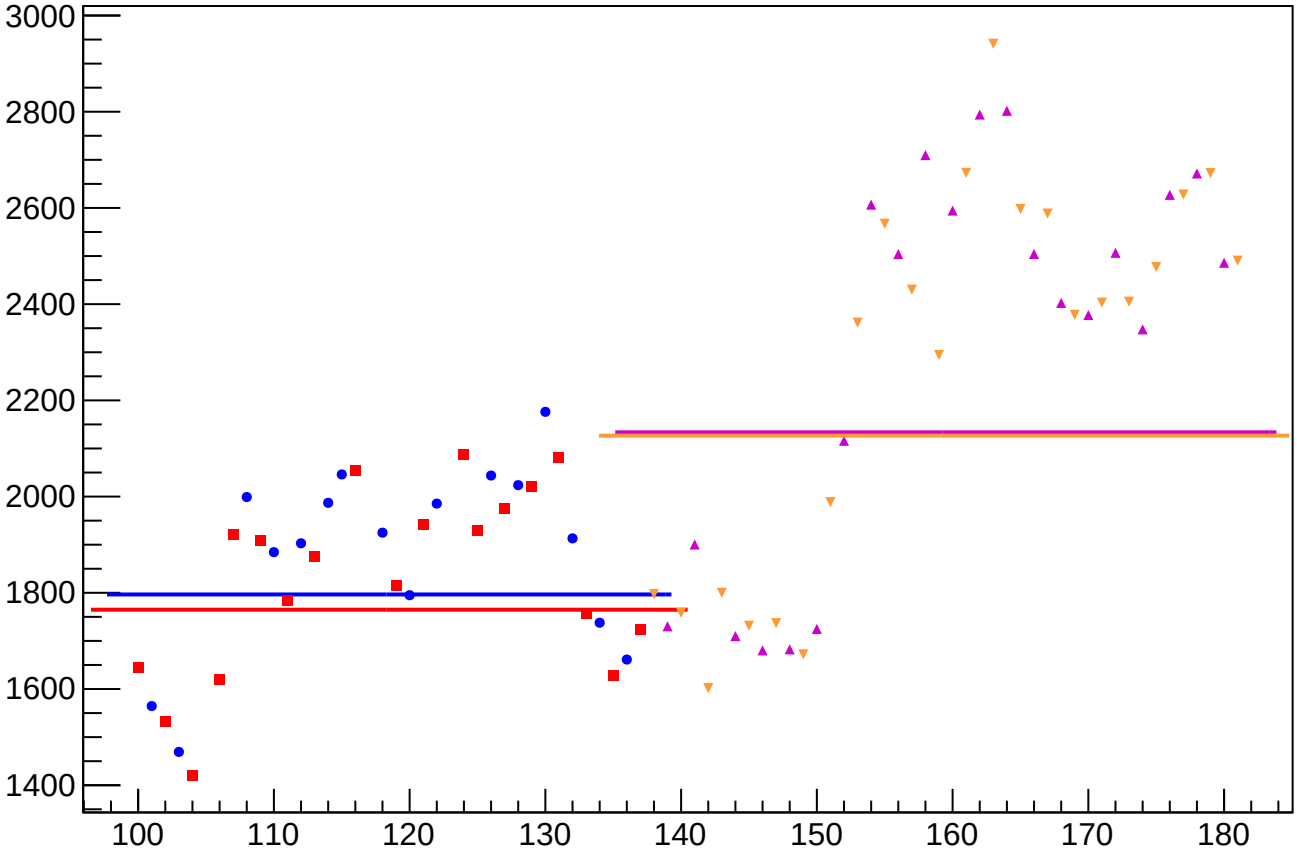
Right: 45.136+/-0.467 $\chi^2$/NDF: 5166.5/34

In: -16.904+/-0.413 $\chi^2$/NDF:26211.6/36

Out: -4.975+/-0.399 $\chi^2$/NDF:7059.6/41

All: -10.727+/-0.287 $\chi^2$/NDF: 33702.5/78

# diff_bpm0i05X_rms vs Slug, Sign Corrected




Right In: 1796.555+/-0.475 $\chi^2$/NDF: 193171.9/15

Left Out: 2126.668+/-0.358 $\chi^2$/NDF:1217523.9/22

Right Out: 1764.860+/-0.459 $\chi^2$/NDF: 189987.9/18

Left In: 2133.602+/-0.371 $\chi^2$/NDF:1225588.6/20

Left: 2130.013+/-0.257 $\chi^2$/NDF: 2443293.8/43

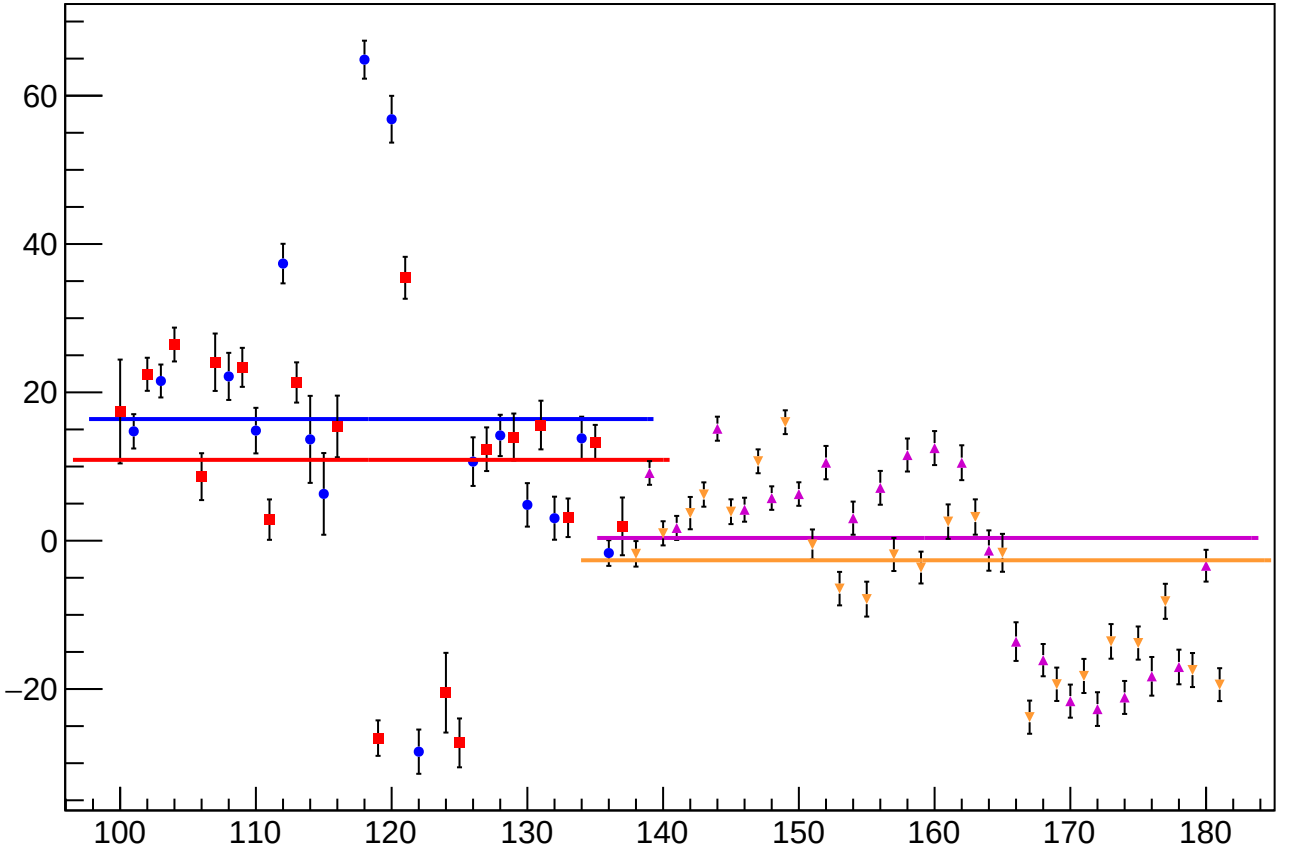
Right: 1780.131+/-0.330 $\chi^2$/NDF: 385462.0/34

In: 2006.245+/-0.292 $\chi^2$/NDF:1731352.1/36

Out: 1989.763+/-0.282 $\chi^2$/NDF:1794560.1/41

All: 1997.710+/-0.203 $\chi^2$/NDF: 3527558.8/78

# diff_bpm0i05Y_mean vs Slug, Sign Corrected




Right In: 16.400+/-0.695 $\chi^2$/NDF: 973.0/15

Left Out: -2.641+/-0.425 $\chi^2$/NDF:623.9/22

Right Out: 10.899+/-0.676 $\chi^2$/NDF: 641.7/18

Left In: 0.368+/-0.441 $\chi^2$/NDF:736.7/20

Left: -1.192+/-0.306 $\chi^2$/NDF: 1384.7/43

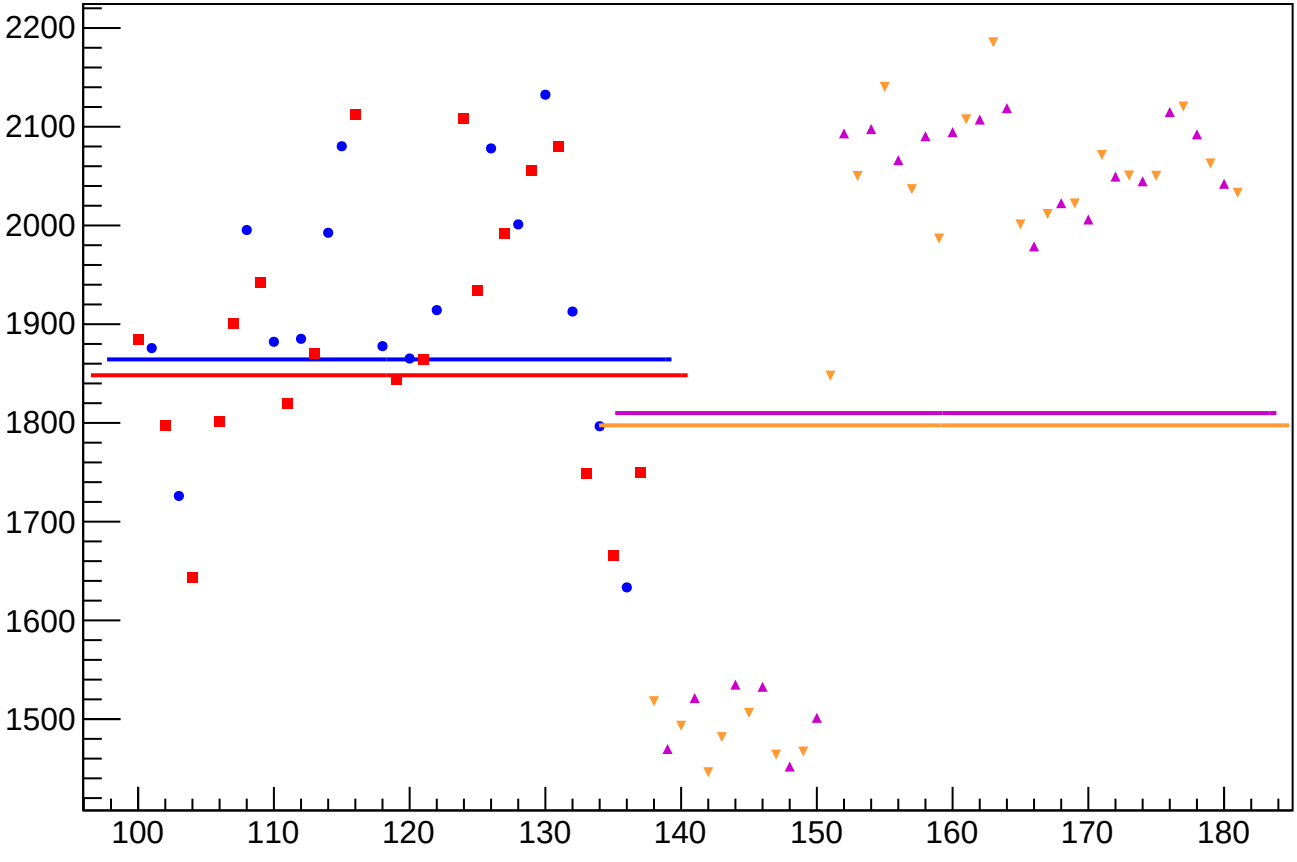
Right: 13.575+/-0.485 $\chi^2$/NDF: 1646.8/34

In: 4.976+/-0.373 $\chi^2$/NDF:2088.9/36

Out: 1.198+/-0.360 $\chi^2$/NDF:1552.8/41

All: 3.022+/-0.259 $\chi^2$/NDF: 3694.9/78

# diff_bpm0i05Y_rms vs Slug, Sign Corrected




Right In: 1864.335+/-0.491 $\chi^2$/NDF: 83311.5/15

Left Out: 1797.571+/-0.301 $\chi^2$/NDF:891223.0/22

Right Out: 1848.284+/-0.478 $\chi^2$/NDF: 74956.9/18

Left In: 1809.988+/-0.312 $\chi^2$/NDF:826439.2/20

Left: 1803.551+/-0.217 $\chi^2$/NDF: 1718482.8/43

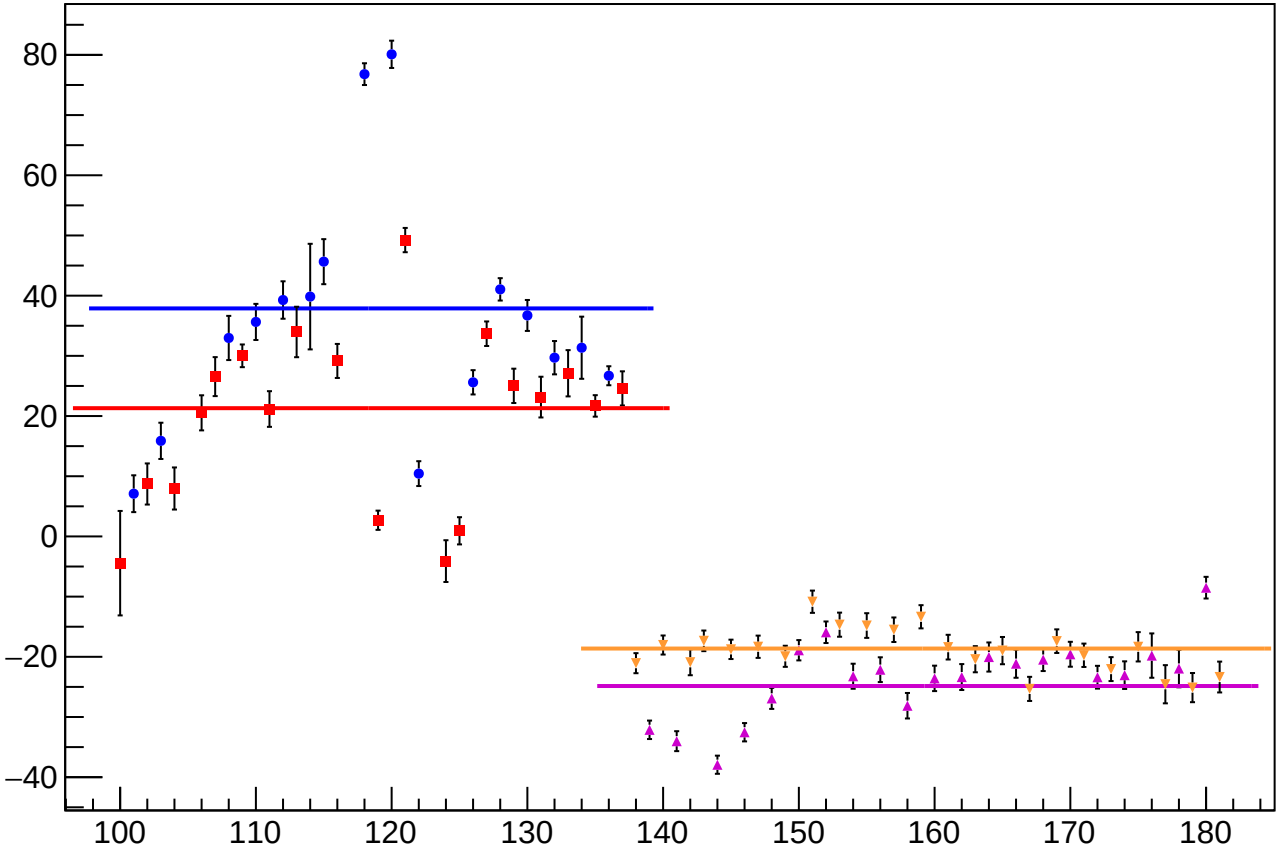
Right: 1856.091+/-0.343 $\chi^2$/NDF: 158816.4/34

In: 1825.608+/-0.263 $\chi^2$/NDF:918466.1/36

Out: 1811.948+/-0.255 $\chi^2$/NDF:974238.7/41

All: 1818.545+/-0.183 $\chi^2$/NDF: 1894094.9/78

# diff_bpm0i07X_mean vs Slug, Sign Corrected




Right In: 37.880+/-0.622 $\chi^2$/NDF: 1249.8/15

Left Out: -18.627+/-0.413 $\chi^2$/NDF:69.1/22

Right Out: 21.306+/-0.593 $\chi^2$/NDF: 582.6/18

Left In: -24.852+/-0.423 $\chi^2$/NDF:302.7/20

Left: -21.666+/-0.295 $\chi^2$/NDF: 482.8/43

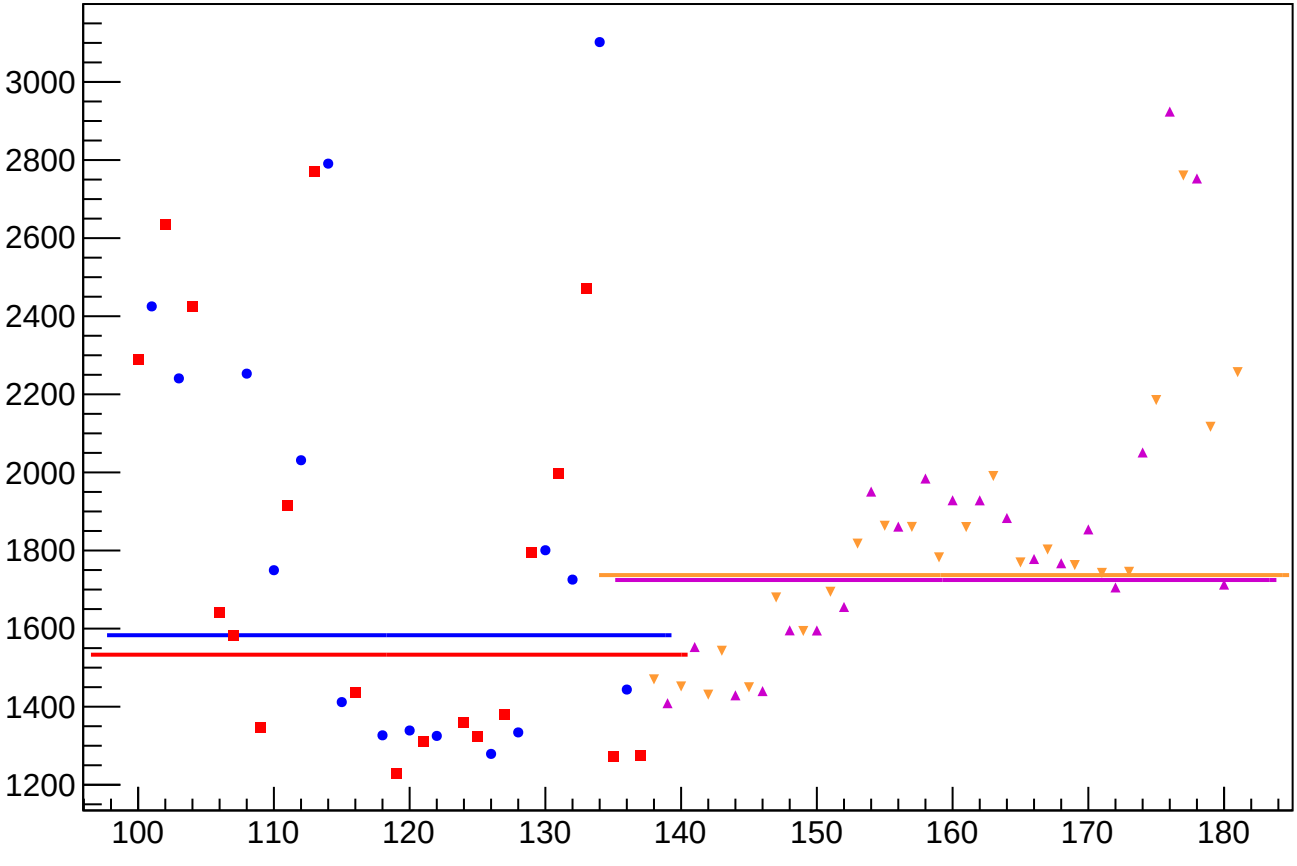
Right: 29.192+/-0.429 $\chi^2$/NDF: 2204.2/34

In: -5.053+/-0.350 $\chi^2$/NDF:8505.9/36

Out: -5.595+/-0.339 $\chi^2$/NDF:3707.2/41

All: -5.332+/-0.243 $\chi^2$/NDF: 12214.4/78

# diff_bpm0i07X_rms vs Slug, Sign Corrected




Right In: 1583.050+/-0.440 $\chi^2$/NDF: 787672.4/15

Left Out: 1737.053+/-0.292 $\chi^2$/NDF:726244.5/22

Right Out: 1533.190+/-0.419 $\chi^2$/NDF: 950777.4/18

Left In: 1724.418+/-0.299 $\chi^2$/NDF:865961.5/20

Left: 1730.885+/-0.209 $\chi^2$/NDF: 1593121.0/43

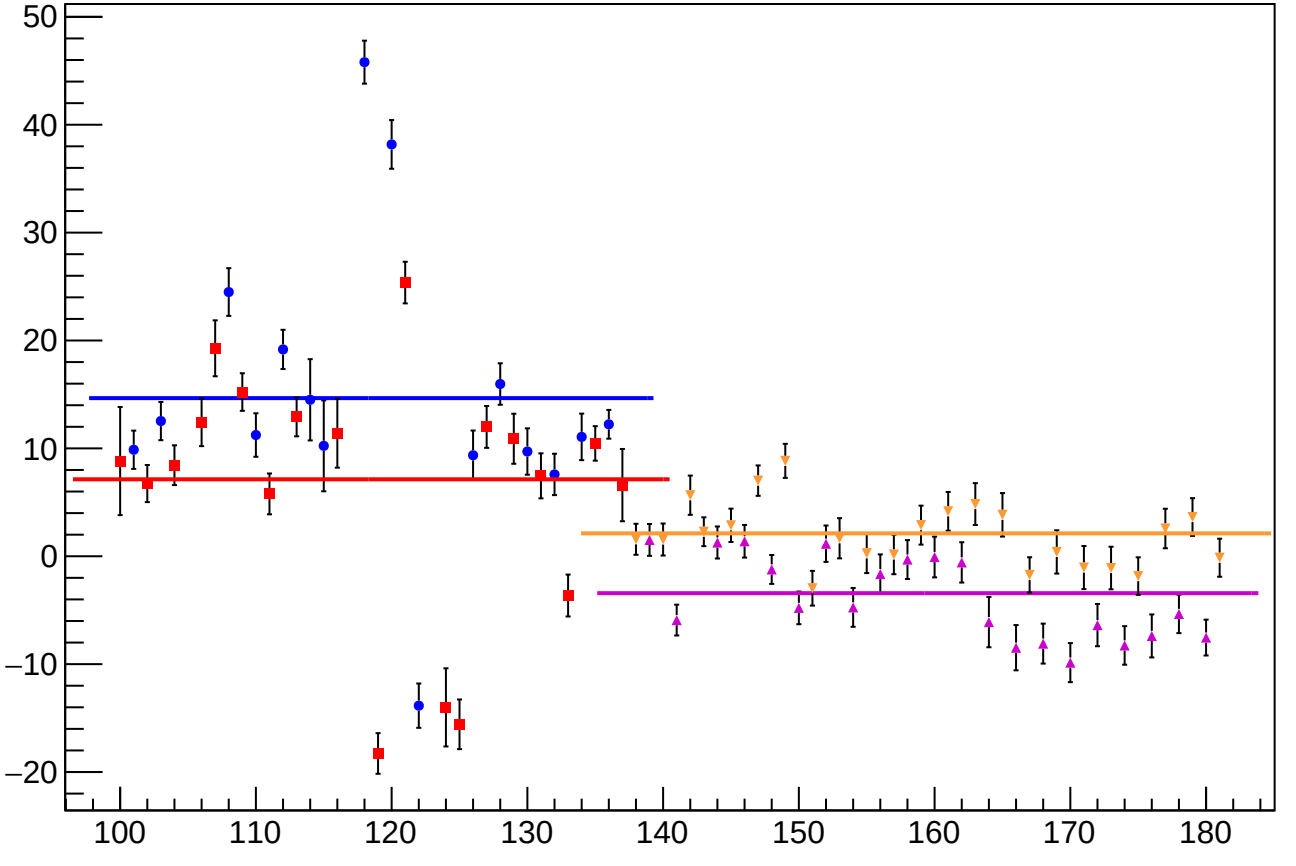
Right: 1556.913+/-0.304 $\chi^2$/NDF: 1745178.6/34

In: 1679.801+/-0.247 $\chi^2$/NDF:1724257.3/36

Out: 1670.519+/-0.240 $\chi^2$/NDF:1836286.2/41

All: 1675.013+/-0.172 $\chi^2$/NDF: 3561270.6/78

# diff_bpm0i07Y_mean vs Slug, Sign Corrected




Right In: 14.658+/-0.504 $\chi^2$/NDF: 614.8/15

Left Out: 2.123+/-0.355 $\chi^2$/NDF:69.9/22

Right Out: 7.135+/-0.483 $\chi^2$/NDF: 509.4/18

Left In: -3.421+/-0.373 $\chi^2$/NDF:102.2/20

Left: -0.511+/-0.257 $\chi^2$/NDF: 288.0/43

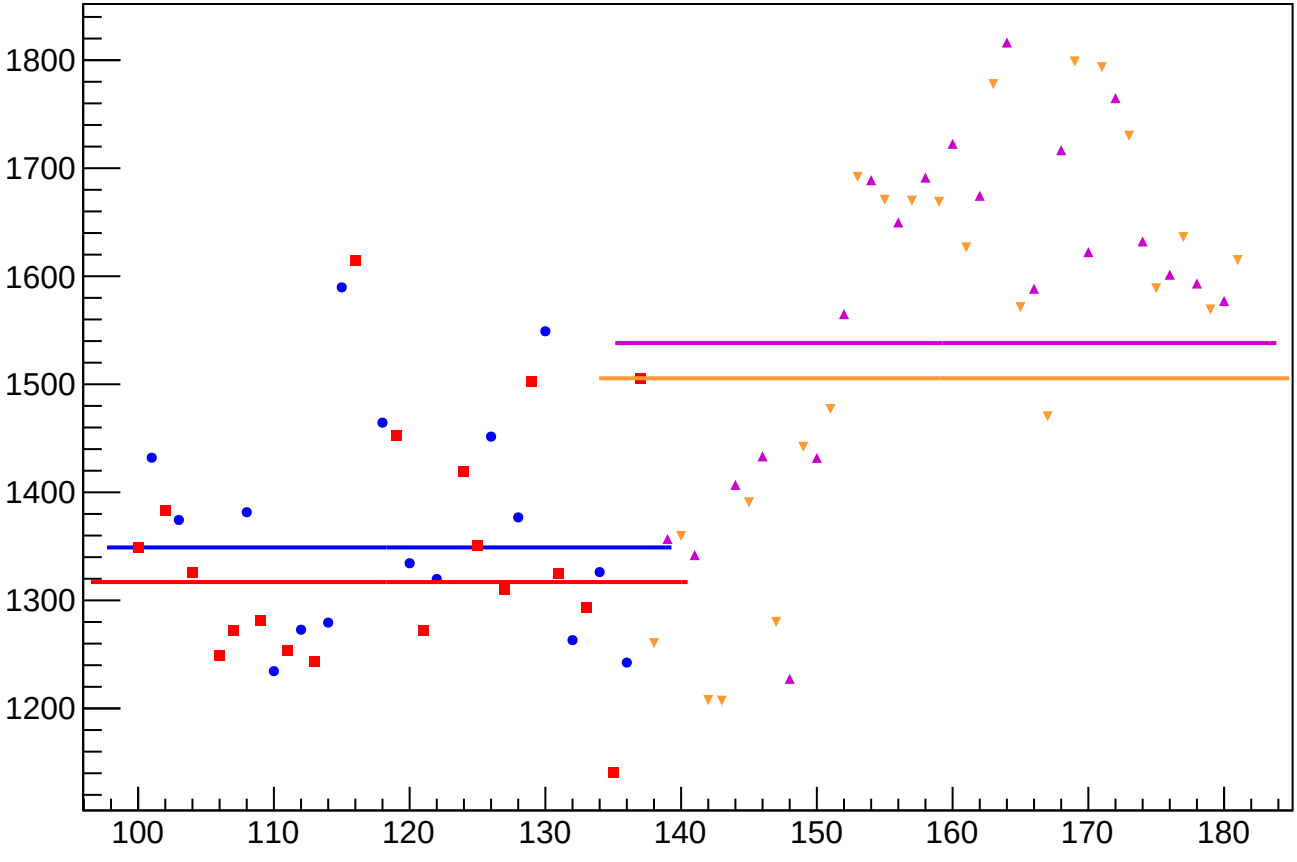
Right: 10.734+/-0.349 $\chi^2$/NDF: 1240.2/34

In: 2.974+/-0.300 $\chi^2$/NDF:1546.9/36

Out: 3.881+/-0.286 $\chi^2$/NDF:649.2/41

All: 3.449+/-0.207 $\chi^2$/NDF: 2200.9/78

# diff_bpm0i07Y_rms vs Slug, Sign Corrected




Right In: 1349.000+/-0.357 $\chi^2$/NDF: 68383.7/15

Left Out: 1505.580+/-0.251 $\chi^2$/NDF:552255.7/22

Right Out: 1316.961+/-0.342 $\chi^2$/NDF: 86873.7/18

Left In: 1538.171+/-0.264 $\chi^2$/NDF:366559.5/20

Left: 1521.065+/-0.182 $\chi^2$/NDF: 926818.9/43

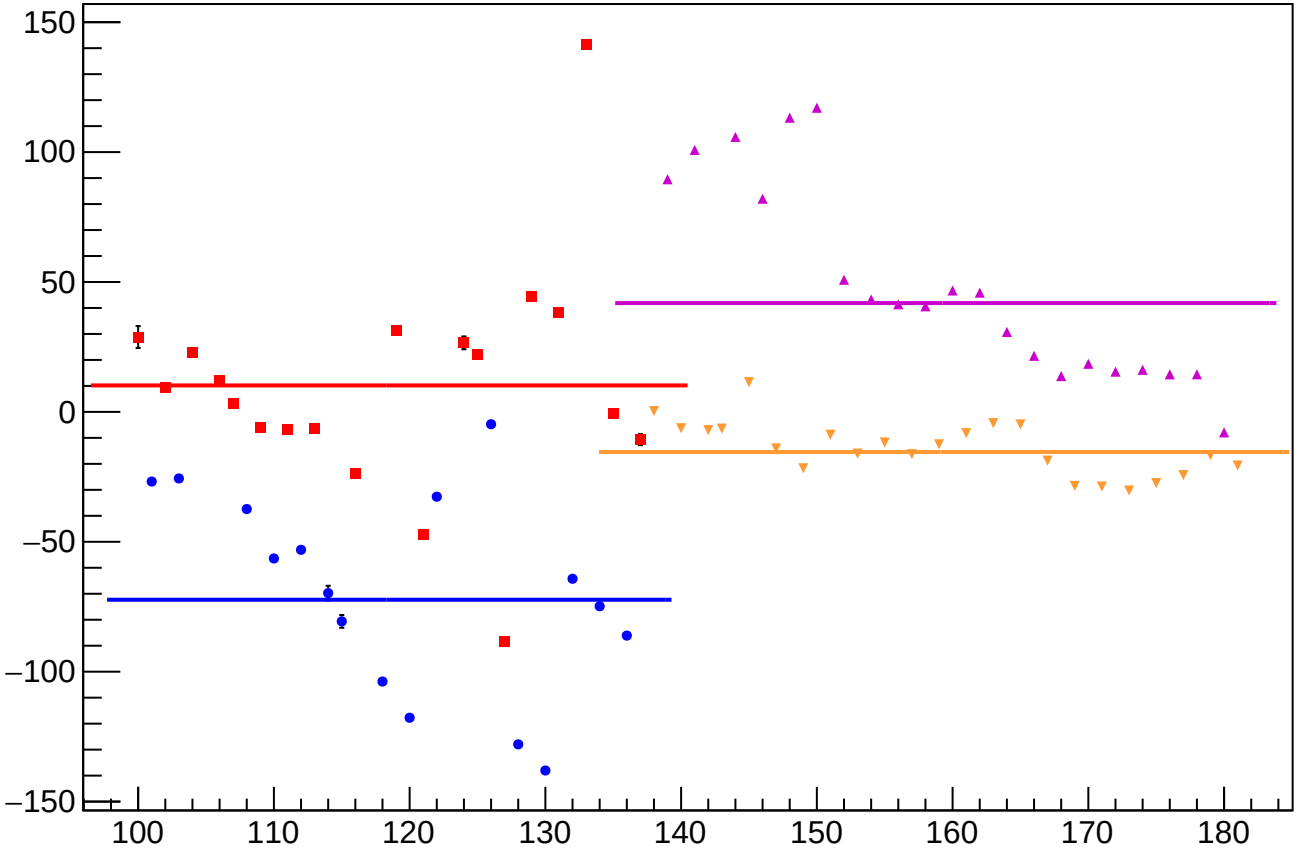
Right: 1332.289+/-0.247 $\chi^2$/NDF: 159464.7/34

In: 1471.256+/-0.212 $\chi^2$/NDF:616678.7/36

Out: 1439.427+/-0.202 $\chi^2$/NDF:837017.1/41

All: 1454.587+/-0.146 $\chi^2$/NDF: 1465482.0/78

# diff_bpm1i02X_mean vs Slug, Sign Corrected




Right In: -72.304+/-0.349 $\chi^2$/NDF: 12153.8/15

Left Out: -15.441+/-0.189 $\chi^2$/NDF:2826.8/22

Right Out: 10.188+/-0.345 $\chi^2$/NDF: 19045.9/18

Left In: 41.882+/-0.196 $\chi^2$/NDF:30750.6/20

Left: 12.108+/-0.136 $\chi^2$/NDF: 77926.1/43

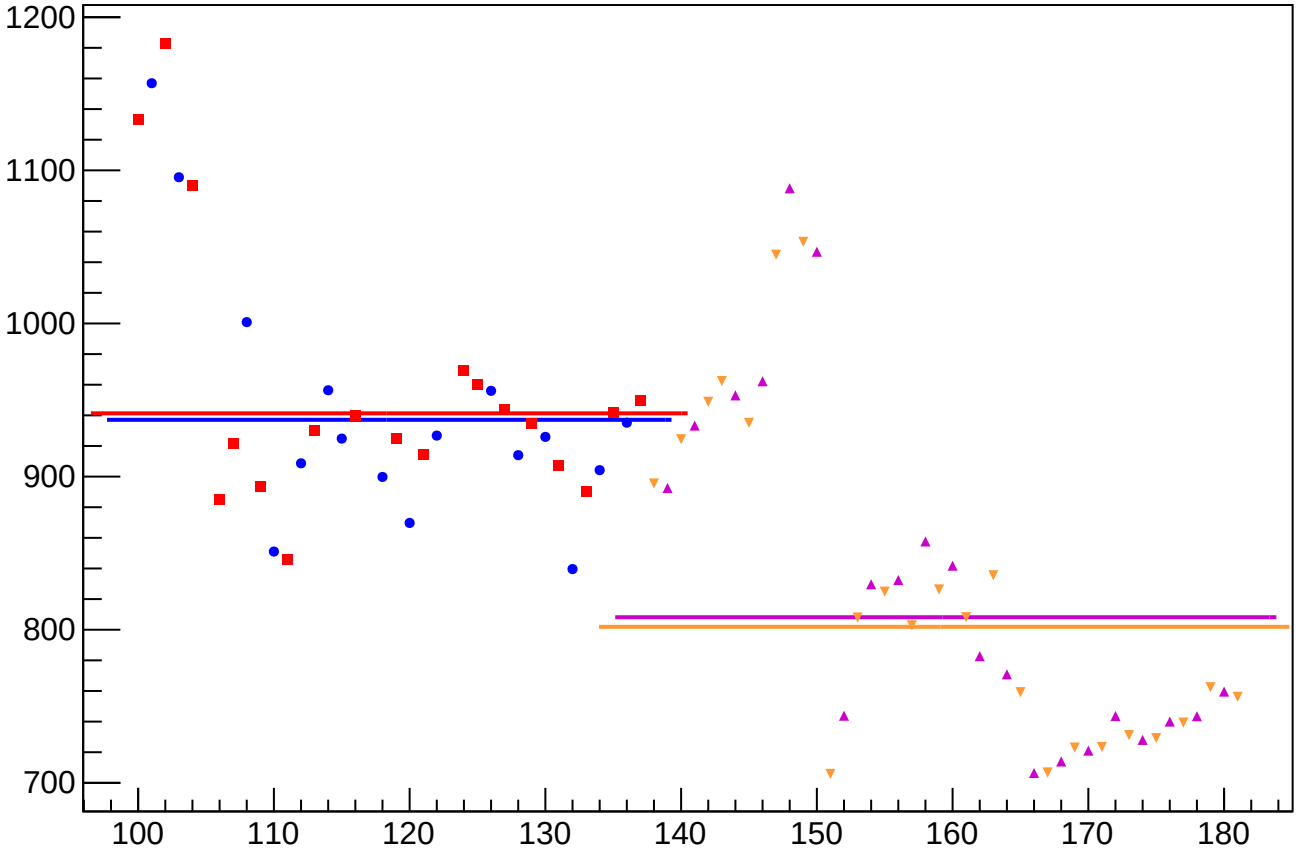
Right: -30.473+/-0.245 $\chi^2$/NDF: 59456.9/34

In: 14.520+/-0.171 $\chi^2$/NDF:124088.5/36

Out: -9.527+/-0.166 $\chi^2$/NDF:26129.3/41

All: 2.100+/-0.119 $\chi^2$/NDF: 160424.8/78

# diff_bpm1i02X_rms vs Slug, Sign Corrected




Right In: 937.097+/-0.247 $\chi^2$/NDF: 104660.4/15

Left Out: 801.897+/-0.133 $\chi^2$/NDF:492525.4/22

Right Out: 941.323+/-0.244 $\chi^2$/NDF: 101031.2/18

Left In: 808.156+/-0.139 $\chi^2$/NDF:508871.4/20

Left: 804.905+/-0.096 $\chi^2$/NDF: 1002454.3/43

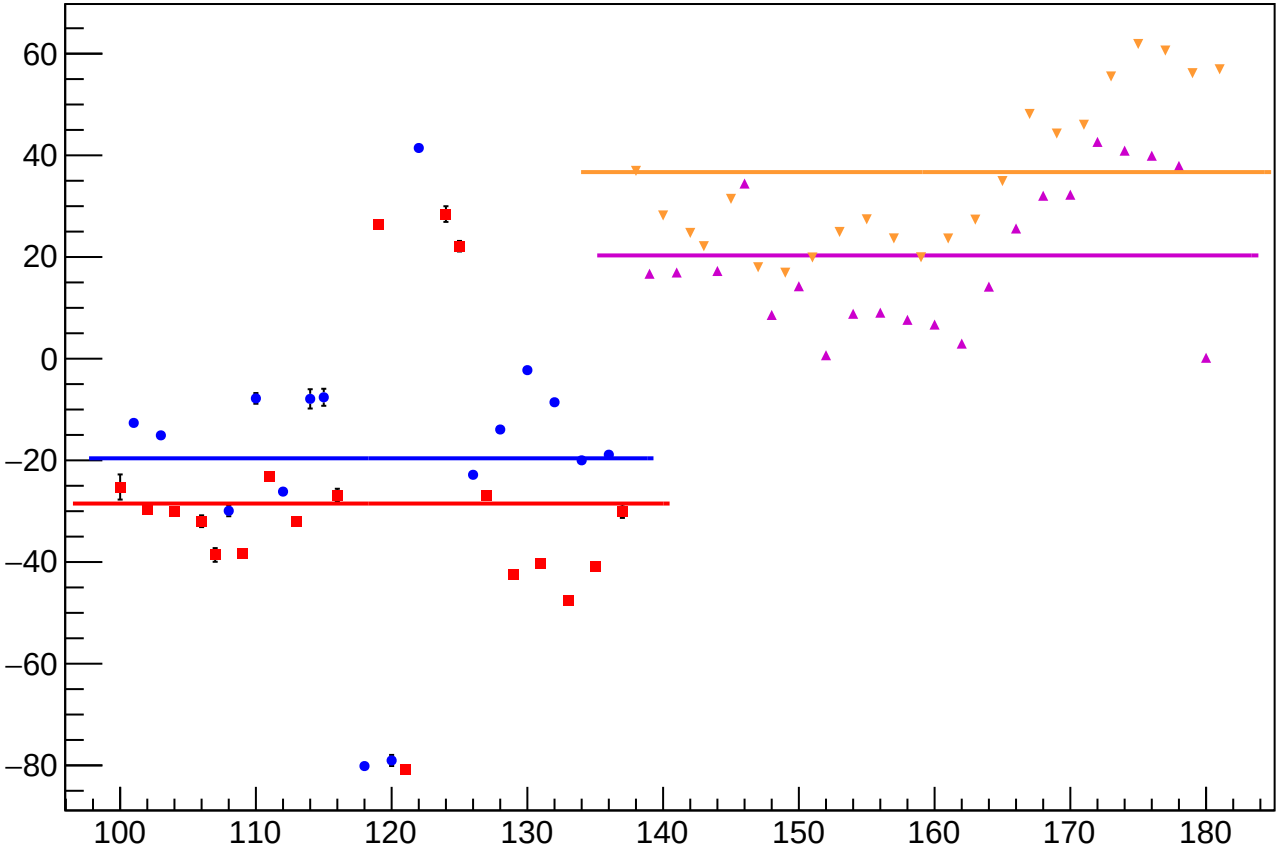
Right: 939.240+/-0.173 $\chi^2$/NDF: 205839.9/34

In: 839.053+/-0.121 $\chi^2$/NDF:820574.5/36

Out: 834.069+/-0.117 $\chi^2$/NDF:845506.7/41

All: 836.479+/-0.084 $\chi^2$/NDF: 1666958.2/78

# diff_bpm1i02Y_mean vs Slug, Sign Corrected




Right In: -19.597+/-0.234 $\chi^2$/NDF: 13170.1/15

Left Out: 36.706+/-0.150 $\chi^2$/NDF:10231.1/22

Right Out: -28.496+/-0.230 $\chi^2$/NDF: 12971.2/18

Left In: 20.313+/-0.156 $\chi^2$/NDF:8410.2/20

Left: 28.844+/-0.108 $\chi^2$/NDF: 24399.4/43

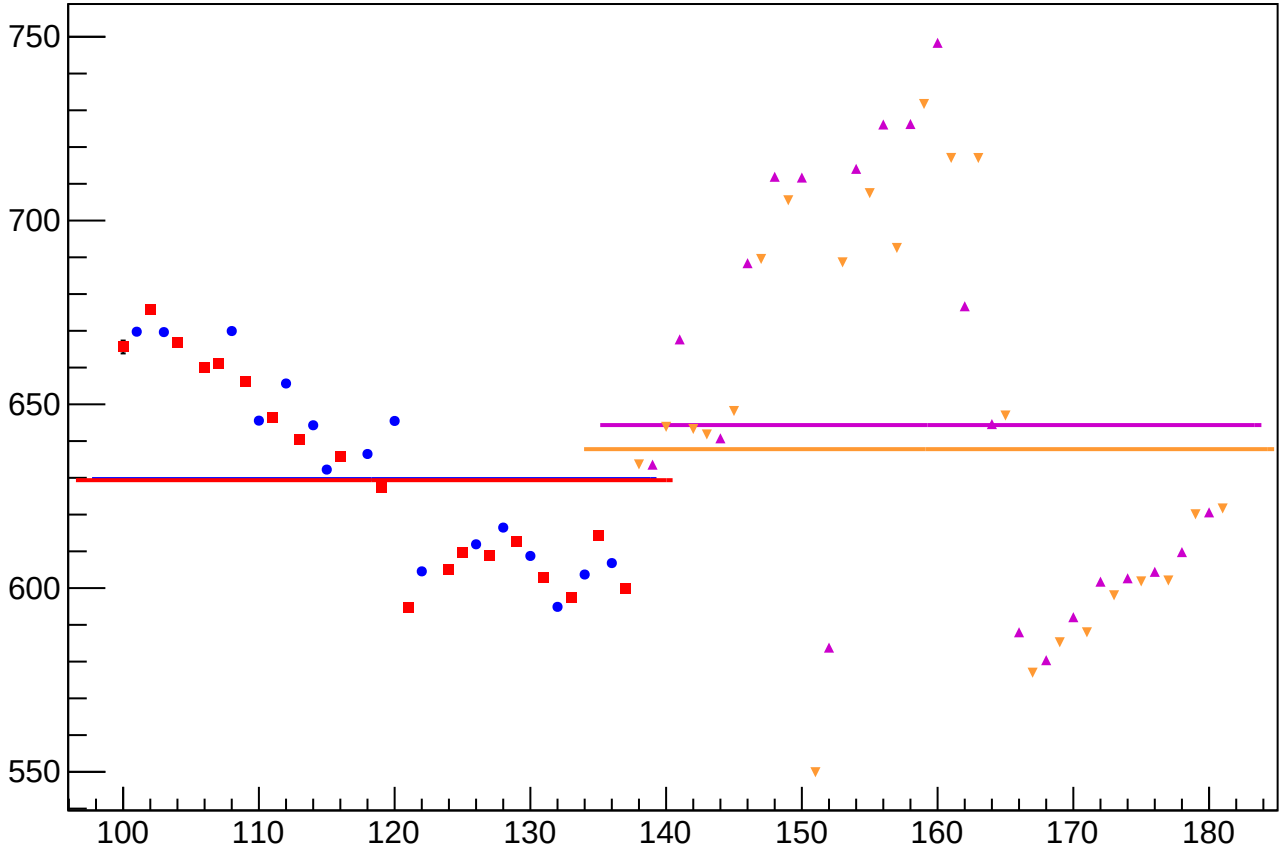
Right: -24.130+/-0.164 $\chi^2$/NDF: 26877.8/34

In: 8.053+/-0.130 $\chi^2$/NDF:41723.8/36

Out: 17.281+/-0.125 $\chi^2$/NDF:79784.7/41

All: 12.825+/-0.090 $\chi^2$/NDF: 124125.2/78

# diff_bpm1i02Y_rms vs Slug, Sign Corrected




Right In: 629.660+/-0.166 $\chi^2$/NDF: 25315.5/15

Left Out: 637.805+/-0.106 $\chi^2$/NDF:236396.6/22

Right Out: 629.361+/-0.162 $\chi^2$/NDF: 26791.2/18

Left In: 644.354+/-0.110 $\chi^2$/NDF:229079.7/20

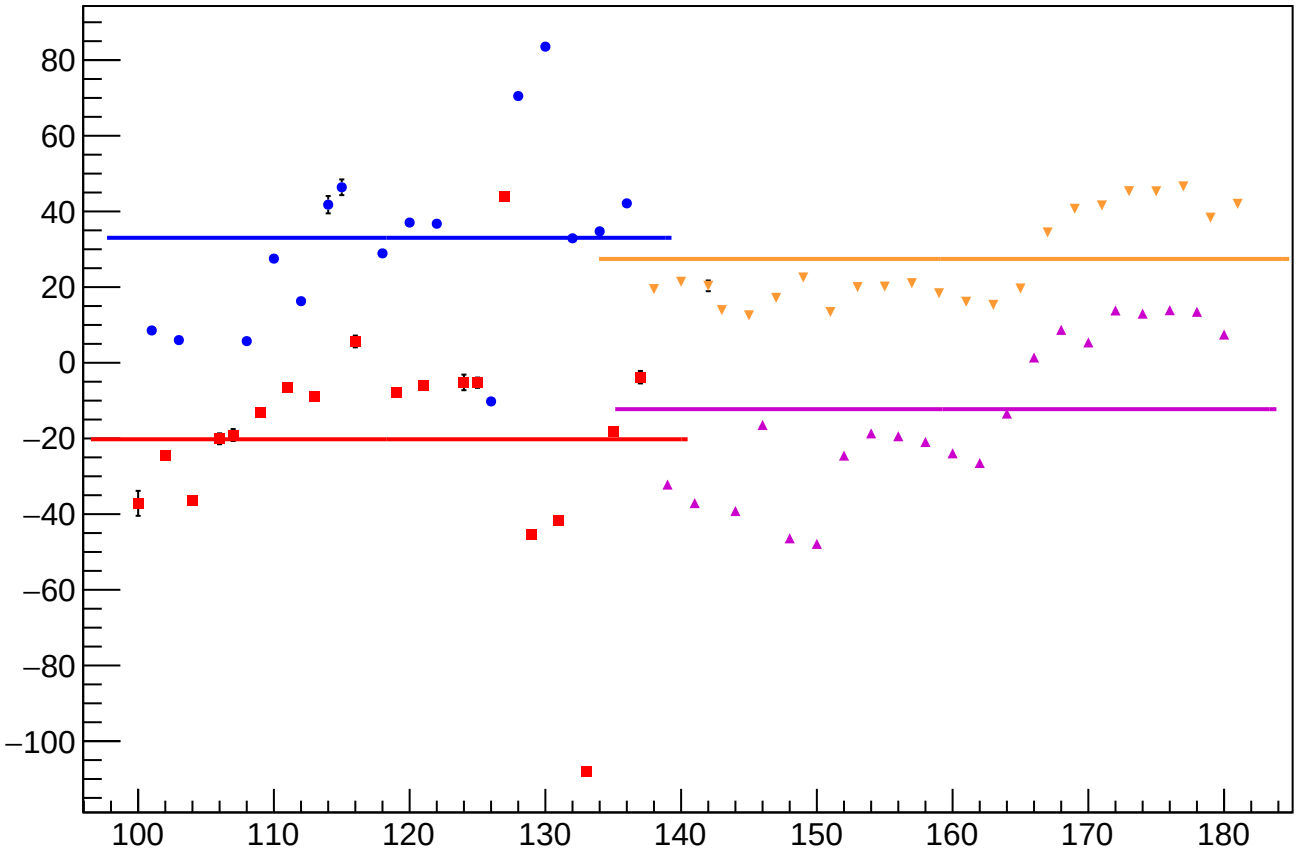
Left: 640.946+/-0.076 $\chi^2$/NDF: 467314.6/43

Right: 629.508+/-0.116 $\chi^2$/NDF: 52108.4/34

In: 639.841+/-0.092 $\chi^2$/NDF:259856.8/36

Out: 635.289+/-0.089 $\chi^2$/NDF:265085.5/41

All: 637.487+/-0.064 $\chi^2$/NDF: 526215.5/78




Right In: 33.033+/-0.289 $\chi^2$/NDF: 6700.1/15

Left Out: 27.453+/-0.213 $\chi^2$/NDF:3260.0/22

Right Out: -20.215+/-0.286 $\chi^2$/NDF: 11869.7/18

Left In: -12.257+/-0.221 $\chi^2$/NDF:8501.2/20

Left: 8.298+/-0.153 $\chi^2$/NDF: 28531.2/43

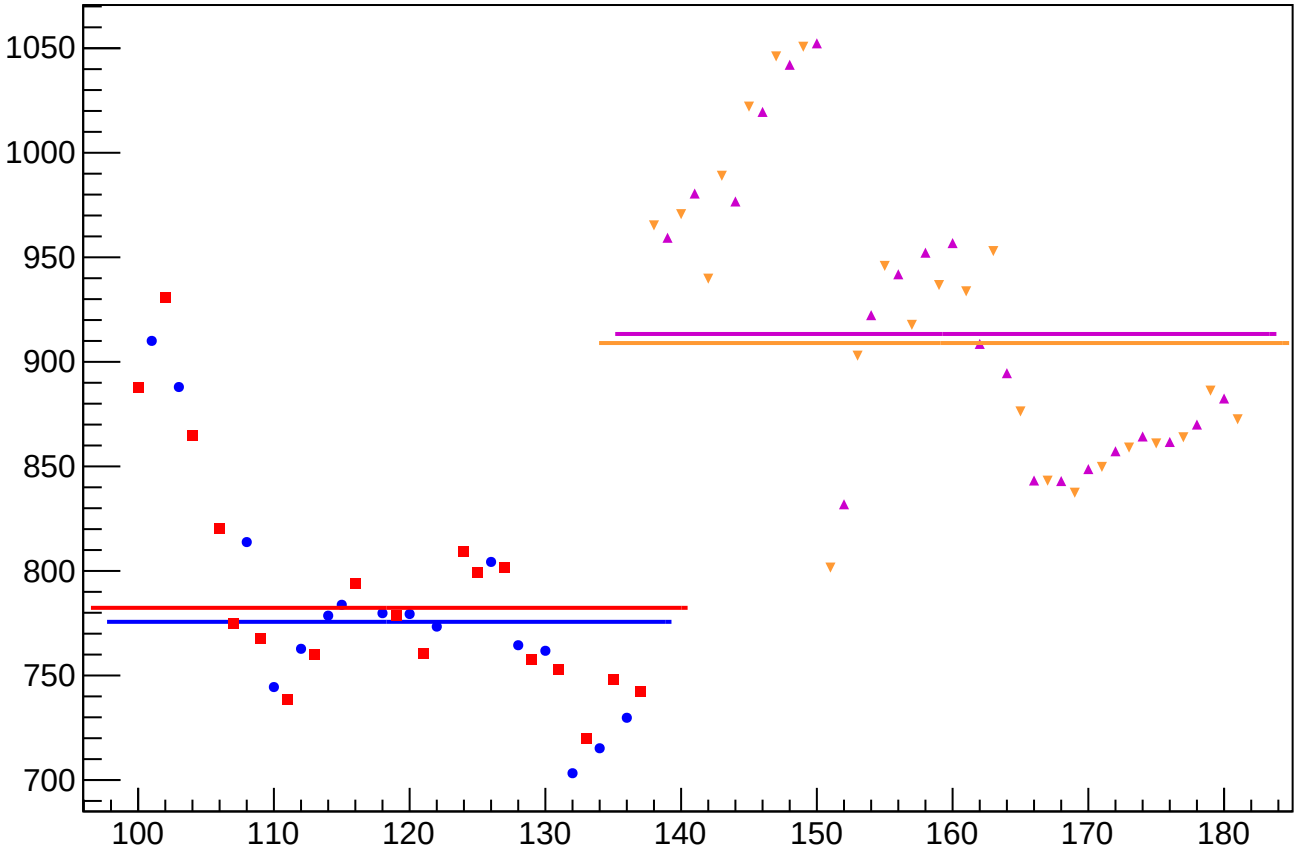
Right: 6.136+/-0.203 $\chi^2$/NDF: 35729.1/34

In: 4.425+/-0.175 $\chi^2$/NDF:30724.3/36

Out: 10.446+/-0.171 $\chi^2$/NDF:33003.2/41

All: 7.514+/-0.122 $\chi^2$/NDF: 64332.4/78

# diff_bpm1i04X_rms vs Slug, Sign Corrected




Right In: 775.664+/-0.204 $\chi^2$/NDF: 74660.0/15

Left Out: 909.003+/-0.151 $\chi^2$/NDF:191811.7/22

Right Out: 782.358+/-0.202 $\chi^2$/NDF: 64566.3/18

Left In: 913.338+/-0.156 $\chi^2$/NDF:173999.9/20

Left: 911.094+/-0.108 $\chi^2$/NDF: 366211.2/43

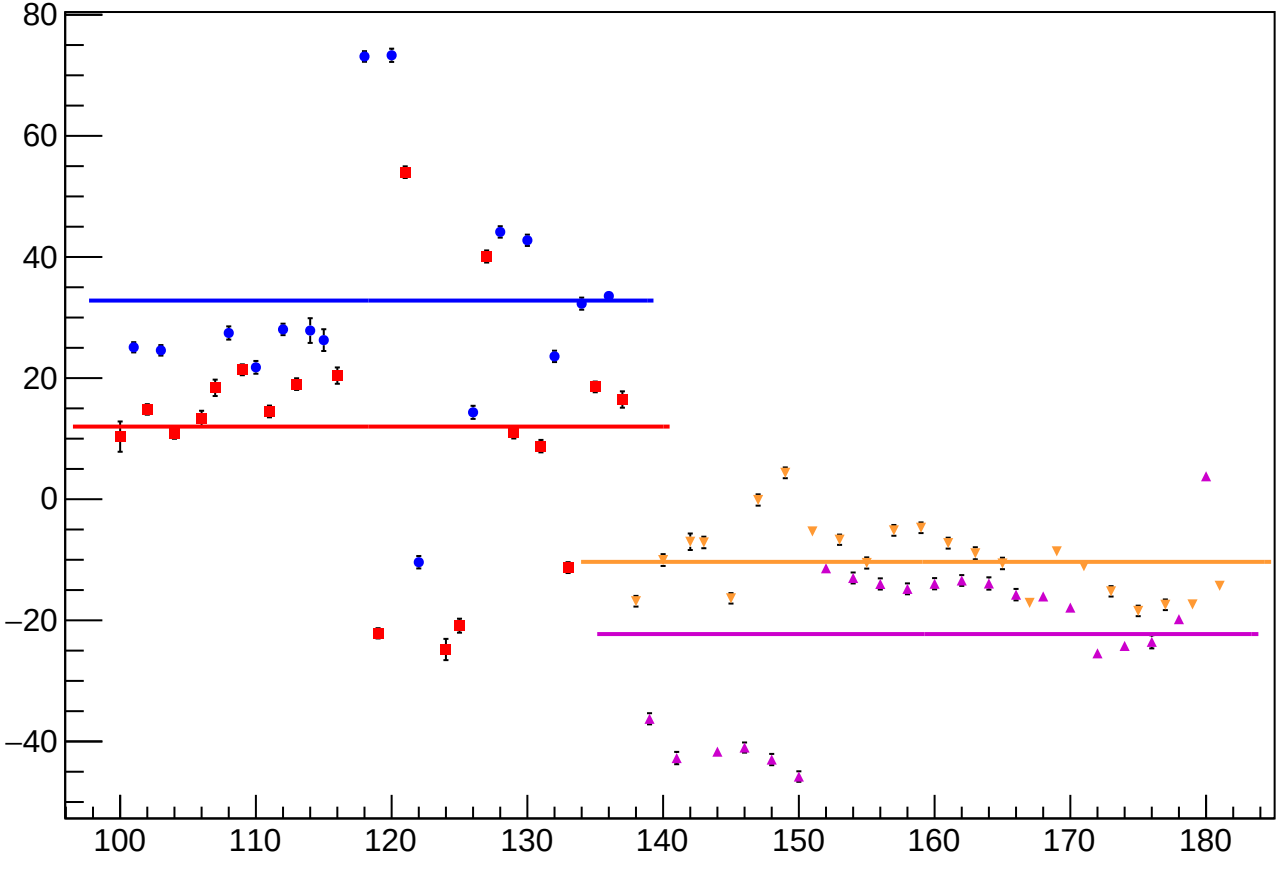
Right: 779.045+/-0.144 $\chi^2$/NDF: 139768.7/34

In: 862.628+/-0.124 $\chi^2$/NDF:535542.9/36

Out: 863.817+/-0.121 $\chi^2$/NDF:508699.5/41

All: 863.238+/-0.087 $\chi^2$/NDF: 1044289.6/78

# diff_bpm1i04Y_mean vs Slug, Sign Corrected




Right In: 32.804+/-0.244 $\chi^2$/NDF: 6259.3/15

Left Out: -10.344+/-0.181 $\chi^2$/NDF:1039.5/22

Right Out: 11.994+/-0.241 $\chi^2$/NDF: 6559.7/18

Left In: -22.267+/-0.188 $\chi^2$/NDF:5062.5/20

Left: -16.087+/-0.131 $\chi^2$/NDF: 8182.0/43

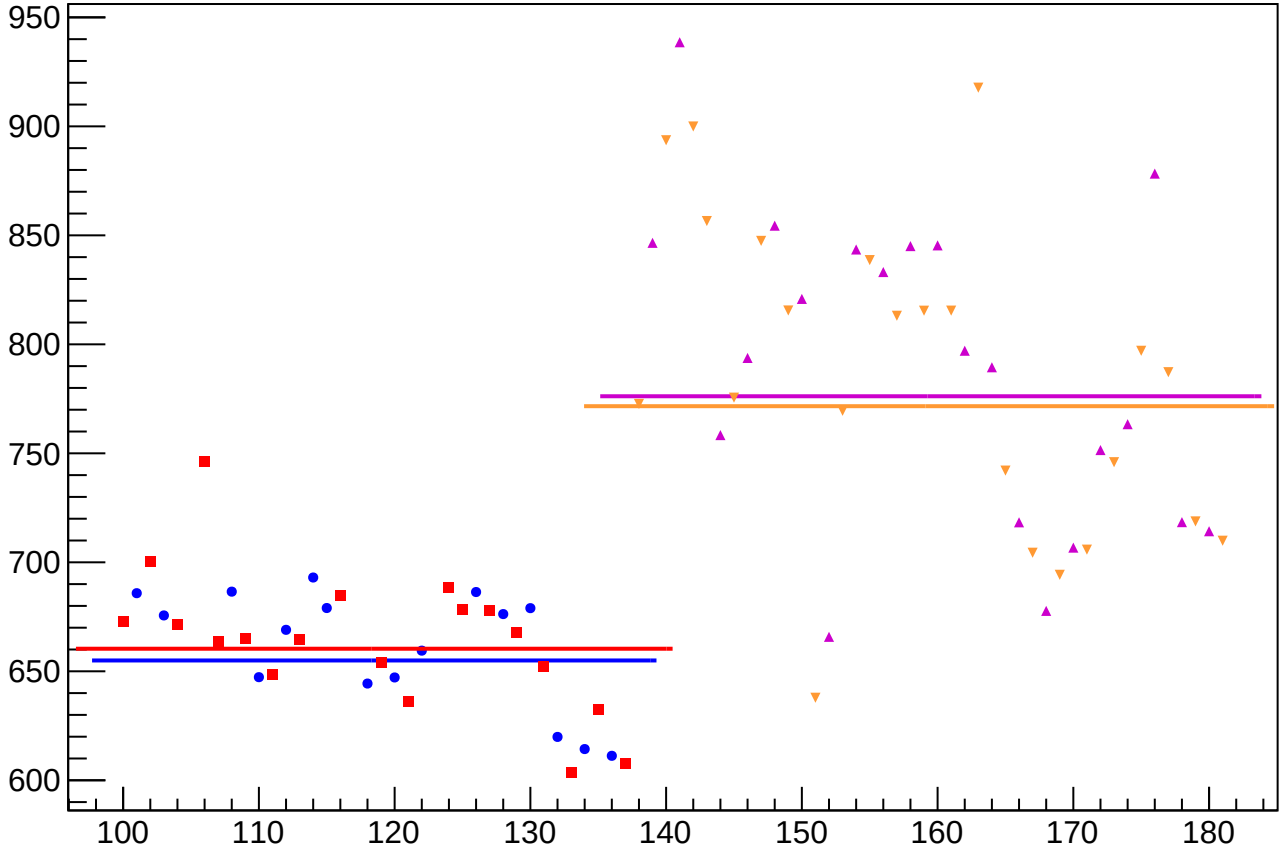
Right: 22.296+/-0.171 $\chi^2$/NDF: 16506.5/34

In: -1.672+/-0.149 $\chi^2$/NDF:43337.6/36

Out: -2.269+/-0.145 $\chi^2$/NDF:13078.8/41

All: -1.978+/-0.104 $\chi^2$/NDF: 56424.6/78

# diff_bpm1i04Y_rms vs Slug, Sign Corrected




Right In: 654.970+/-0.172 $\chi^2$/NDF: 26744.4/15

Left Out: 771.620+/-0.128 $\chi^2$/NDF:300893.1/22

Right Out: 660.355+/-0.171 $\chi^2$/NDF: 30417.5/18

Left In: 776.180+/-0.133 $\chi^2$/NDF:277171.8/20

Left: 773.816+/-0.092 $\chi^2$/NDF: 578673.3/43

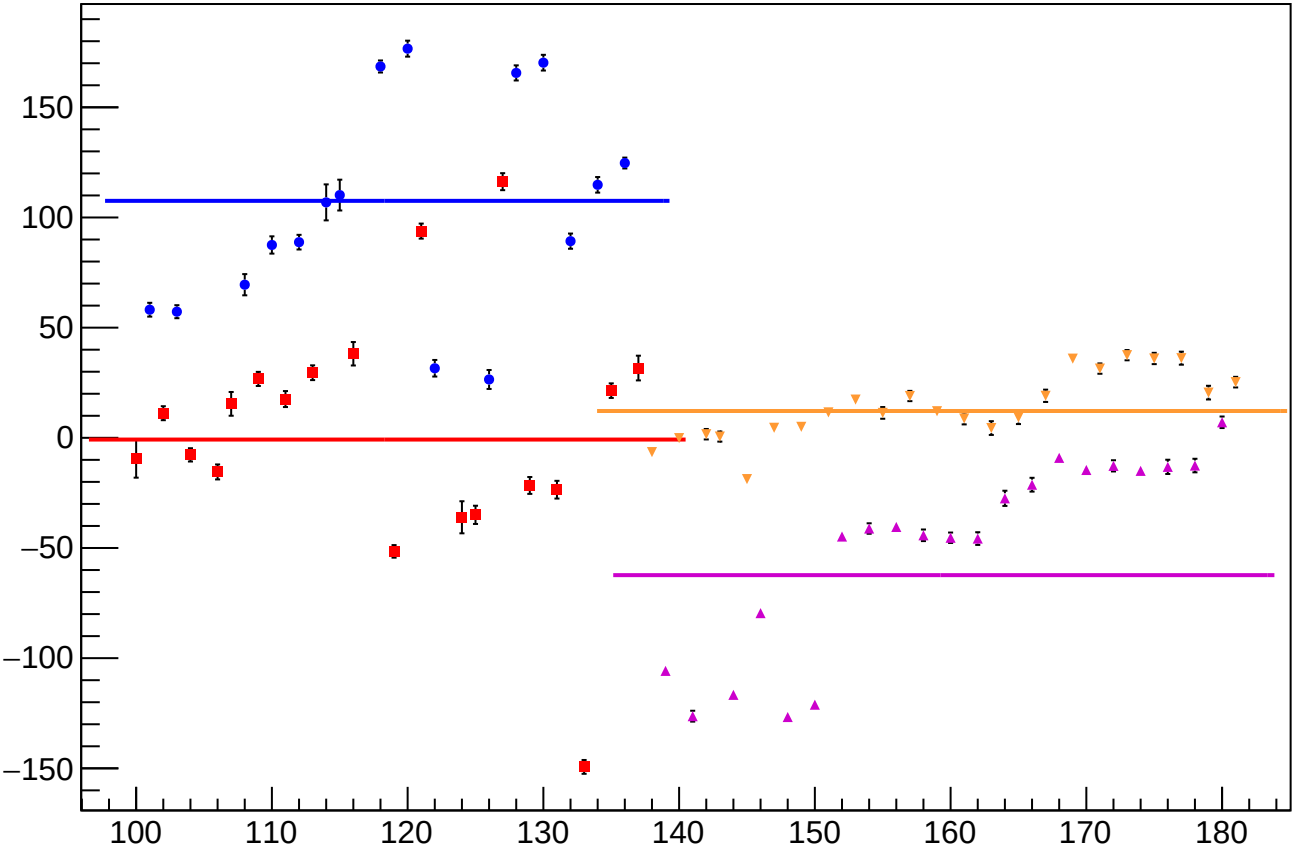
Right: 657.689+/-0.121 $\chi^2$/NDF: 57655.9/34

In: 730.850+/-0.105 $\chi^2$/NDF:614109.6/36

Out: 731.397+/-0.103 $\chi^2$/NDF:603218.4/41

All: 731.131+/-0.073 $\chi^2$/NDF: 1217341.9/78

# diff_bpm1i06X_mean vs Slug, Sign Corrected




Right In: 107.548+/-0.885 $\chi^2$/NDF: 2955.8/15

Left Out: 12.176+/-0.481 $\chi^2$/NDF:941.4/22

Right Out: -0.788+/-0.861 $\chi^2$/NDF: 4763.9/18

Left In: -62.323+/-0.494 $\chi^2$/NDF:8372.6/20

Left: -24.112+/-0.344 $\chi^2$/NDF: 20998.4/43

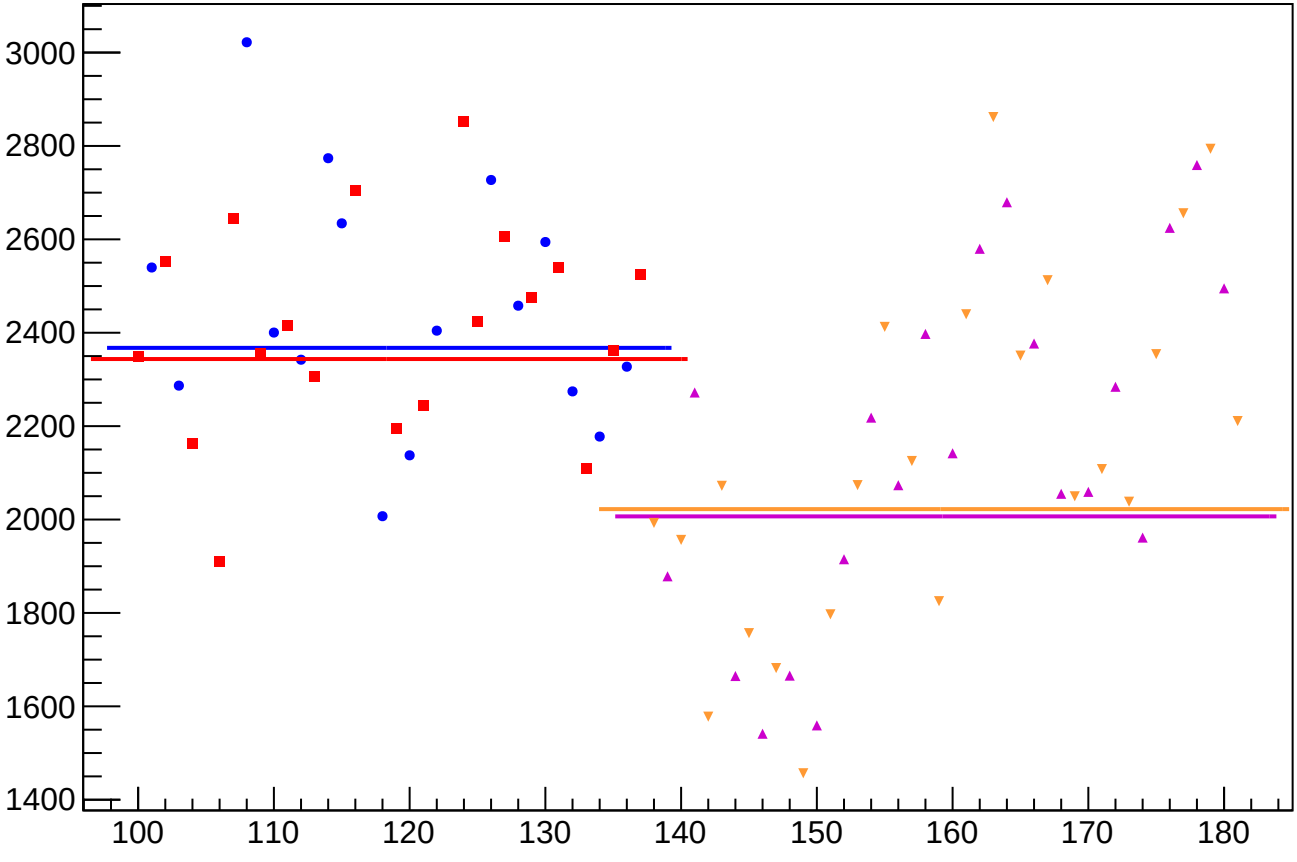
Right: 51.859+/-0.617 $\chi^2$/NDF: 15416.7/34

In: -22.043+/-0.431 $\chi^2$/NDF:39413.5/36

Out: 9.091+/-0.420 $\chi^2$/NDF:5878.2/41

All: -6.065+/-0.301 $\chi^2$/NDF: 47968.1/78

# diff_bpm1i06X_rms vs Slug, Sign Corrected




Right In: 2367.633+/-0.626 $\chi^2$/NDF: 126764.1/15

Left Out: 2022.314+/-0.340 $\chi^2$/NDF:1062044.9/22

Right Out: 2343.704+/-0.609 $\chi^2$/NDF: 112274.4/18

Left In: 2006.745+/-0.349 $\chi^2$/NDF:1028358.3/20

Left: 2014.730+/-0.244 $\chi^2$/NDF: 2091423.7/43

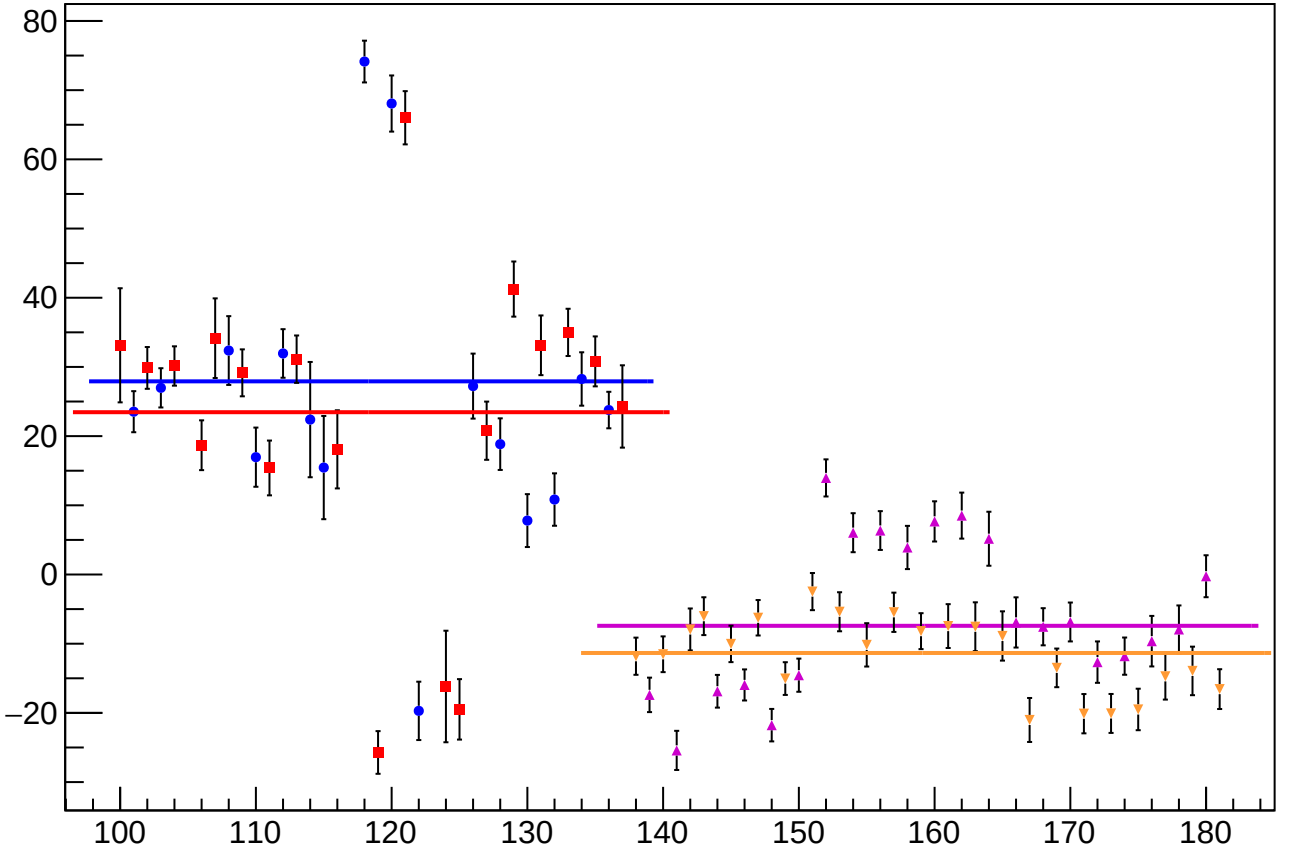
Right: 2355.333+/-0.436 $\chi^2$/NDF: 239789.5/34

In: 2092.321+/-0.305 $\chi^2$/NDF:1408641.2/36

Out: 2098.786+/-0.297 $\chi^2$/NDF:1386770.2/41

All: 2095.639+/-0.213 $\chi^2$/NDF: 2795642.2/78

# diff_bpm1i06Y_mean vs Slug, Sign Corrected




Right In: 27.916+/-0.937 $\chi^2$/NDF: 530.7/15

Left Out: -11.340+/-0.599 $\chi^2$/NDF:77.5/22

Right Out: 23.457+/-0.903 $\chi^2$/NDF: 567.9/18

Left In: -7.414+/-0.615 $\chi^2$/NDF:329.0/20

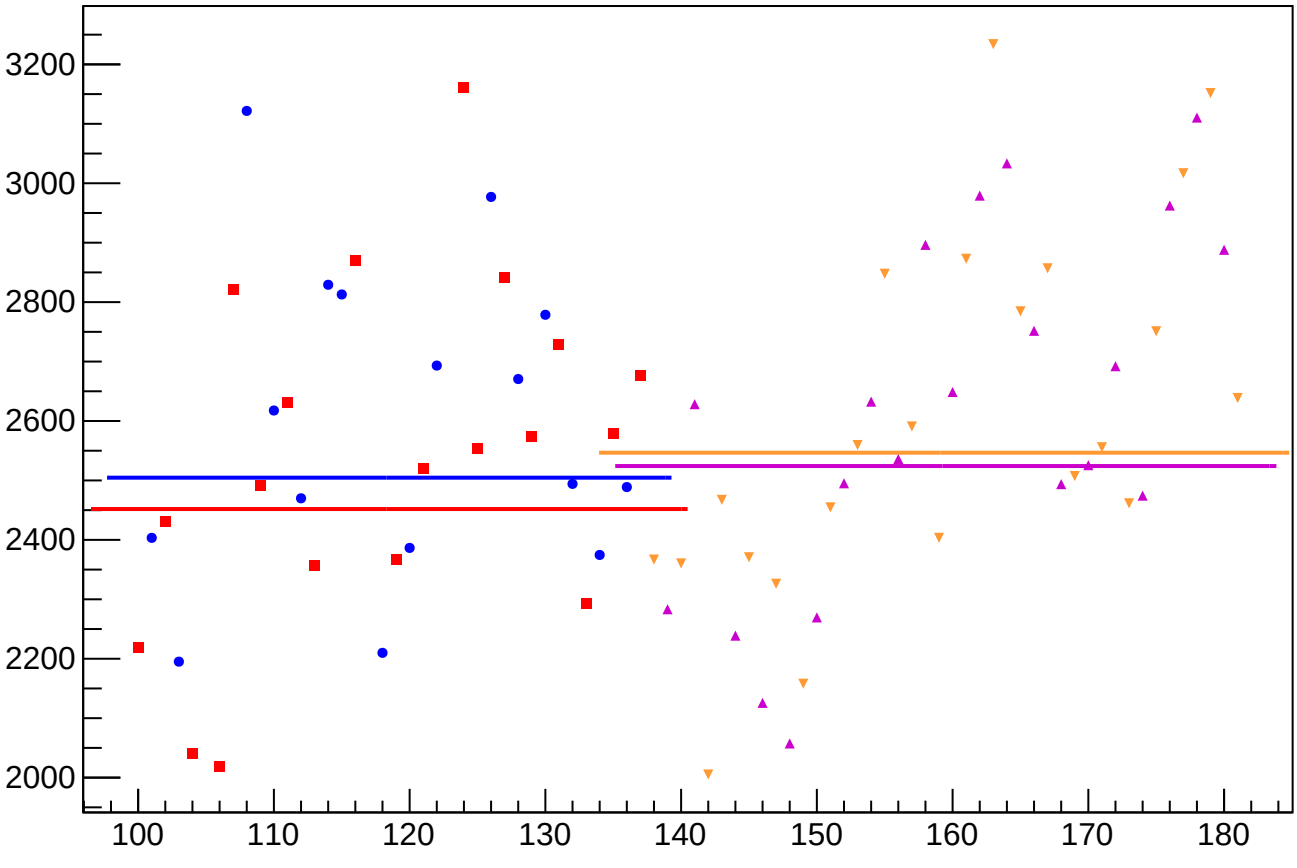
Left: -9.427+/-0.429 $\chi^2$/NDF: 427.4/43

Right: 25.604+/-0.650 $\chi^2$/NDF: 1110.3/34

In: 3.221+/-0.514 $\chi^2$/NDF:1854.0/36

Out: -0.692+/-0.499 $\chi^2$/NDF:1676.8/41

All: 1.208+/-0.358 $\chi^2$/NDF: 3560.6/78




Right In: 2504.654+/-0.662 $\chi^2$/NDF: 126599.1/15

Left Out: 2546.666+/-0.424 $\chi^2$/NDF:427423.2/22

Right Out: 2451.880+/-0.638 $\chi^2$/NDF: 153237.1/18

Left In: 2524.208+/-0.435 $\chi^2$/NDF:451832.4/20

Left: 2535.721+/-0.303 $\chi^2$/NDF: 880623.9/43

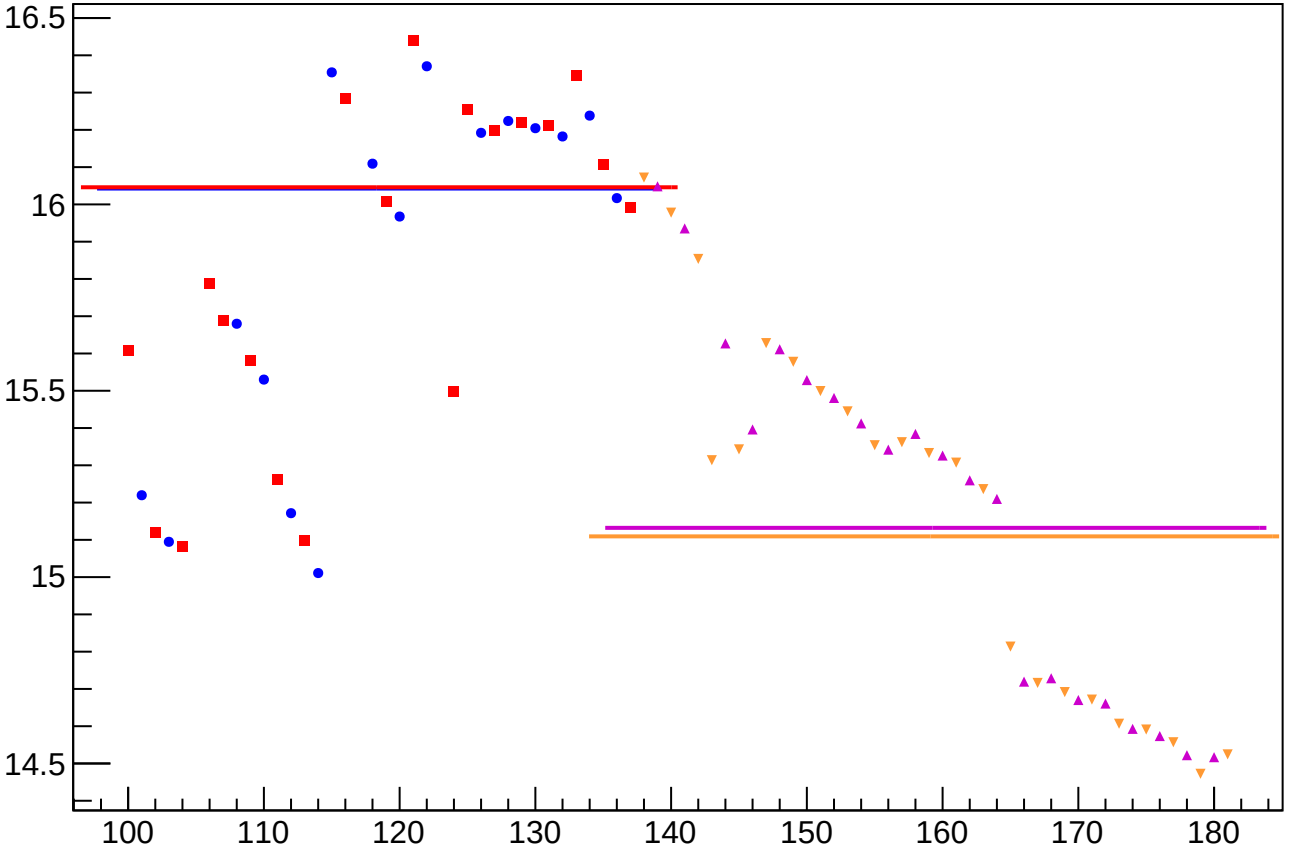
Right: 2477.287+/-0.460 $\chi^2$/NDF: 283127.8/34

In: 2518.322+/-0.363 $\chi^2$/NDF:579040.6/36

Out: 2517.661+/-0.353 $\chi^2$/NDF:595966.5/41

All: 2517.982+/-0.253 $\chi^2$/NDF: 1175008.8/78

# yield_sam1_mean vs Slug, Sign Corrected




Right In: 16.043+/-0.000 $\chi^2$/NDF: 2840540588.4/15

Left Out: 15.109+/-0.000 $\chi^2$/NDF:39799046147.8/22

Right Out: 16.046+/-0.000 $\chi^2$/NDF: 3552158387.5/18

Left In: 15.132+/-0.000 $\chi^2$/NDF:35271625970.3/20

Left: 15.120+/-0.000 $\chi^2$/NDF: 75110982673.1/43

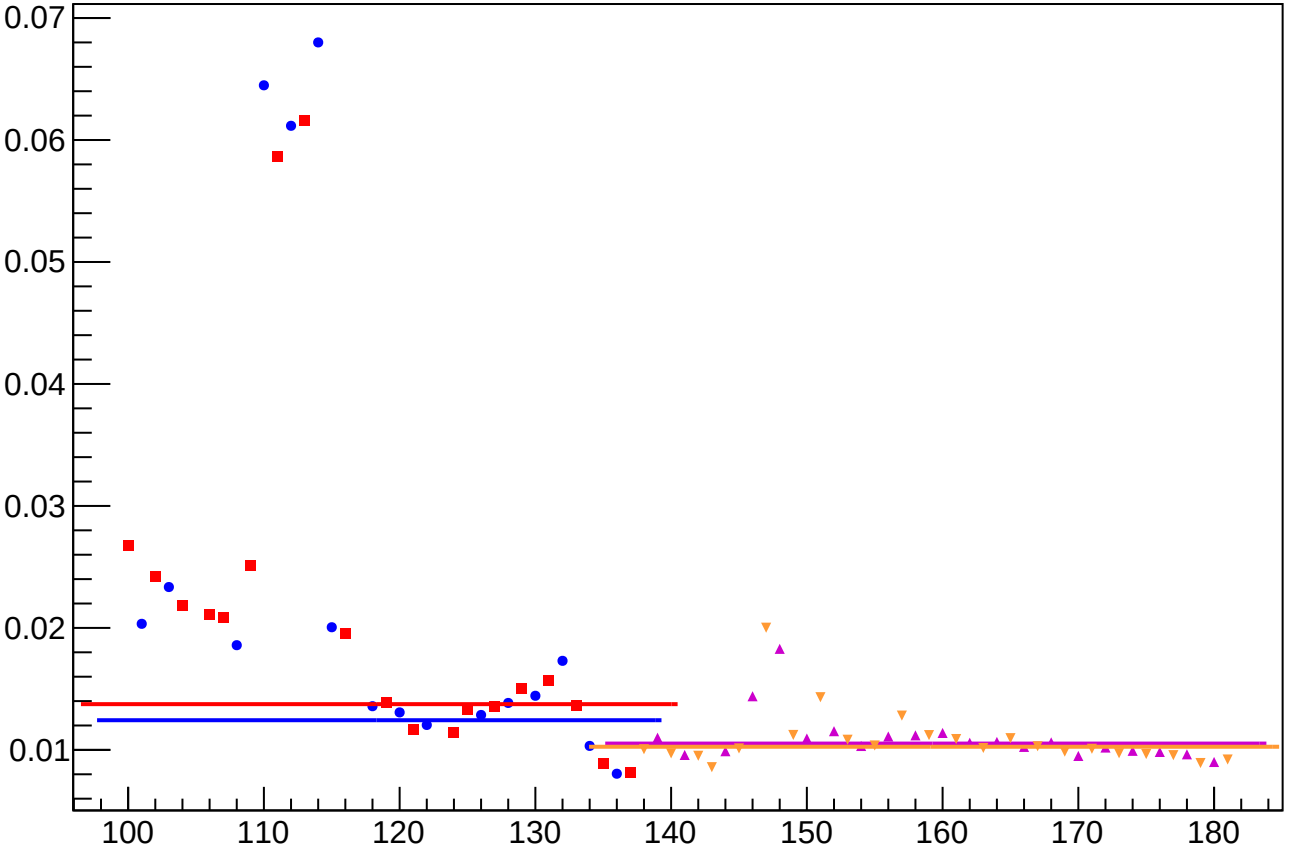
Right: 16.044+/-0.000 $\chi^2$/NDF: 6392885915.7/34

In: 15.311+/-0.000 $\chi^2$/NDF:61843498385.0/36

Out: 15.255+/-0.000 $\chi^2$/NDF:65630302066.4/41

All: 15.282+/-0.000 $\chi^2$/NDF: 127759807648.

# yield_sam1_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2316842.7/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:751826.6/22

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 2230614.9/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:558224.6/20

Left: 0.010+/-0.000 $\chi^2$/NDF: 1320475.5/43

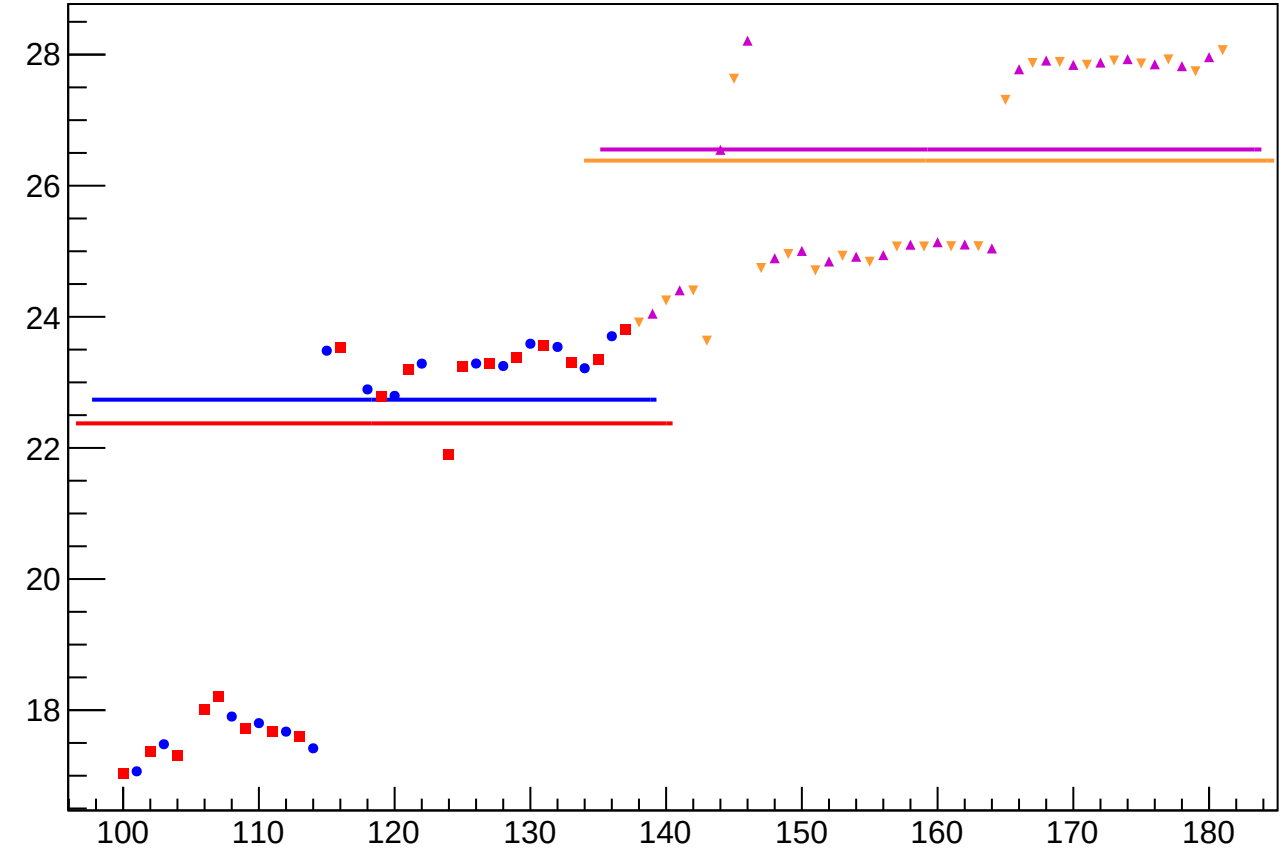
Right: 0.013+/-0.000 $\chi^2$/NDF: 4604105.9/34

In: 0.011+/-0.000 $\chi^2$/NDF:3085001.6/36

Out: 0.011+/-0.000 $\chi^2$/NDF:3602009.6/41

All: 0.011+/-0.000 $\chi^2$/NDF: 6688556.8/78

# yield_sam2_mean vs Slug, Sign Corrected




Right In: 22.736+/-0.000 $\chi^2$/NDF: 1220713728.0/15

Left Out: 26.383+/-0.000 $\chi^2$/NDF:3642424877.2/22

Right Out: 22.375+/-0.000 $\chi^2$/NDF: 1215661430.7/18

Left In: 26.553+/-0.000 $\chi^2$/NDF:2696569204.2/20

Left: 26.464+/-0.000 $\chi^2$/NDF: 6357881010.2/43

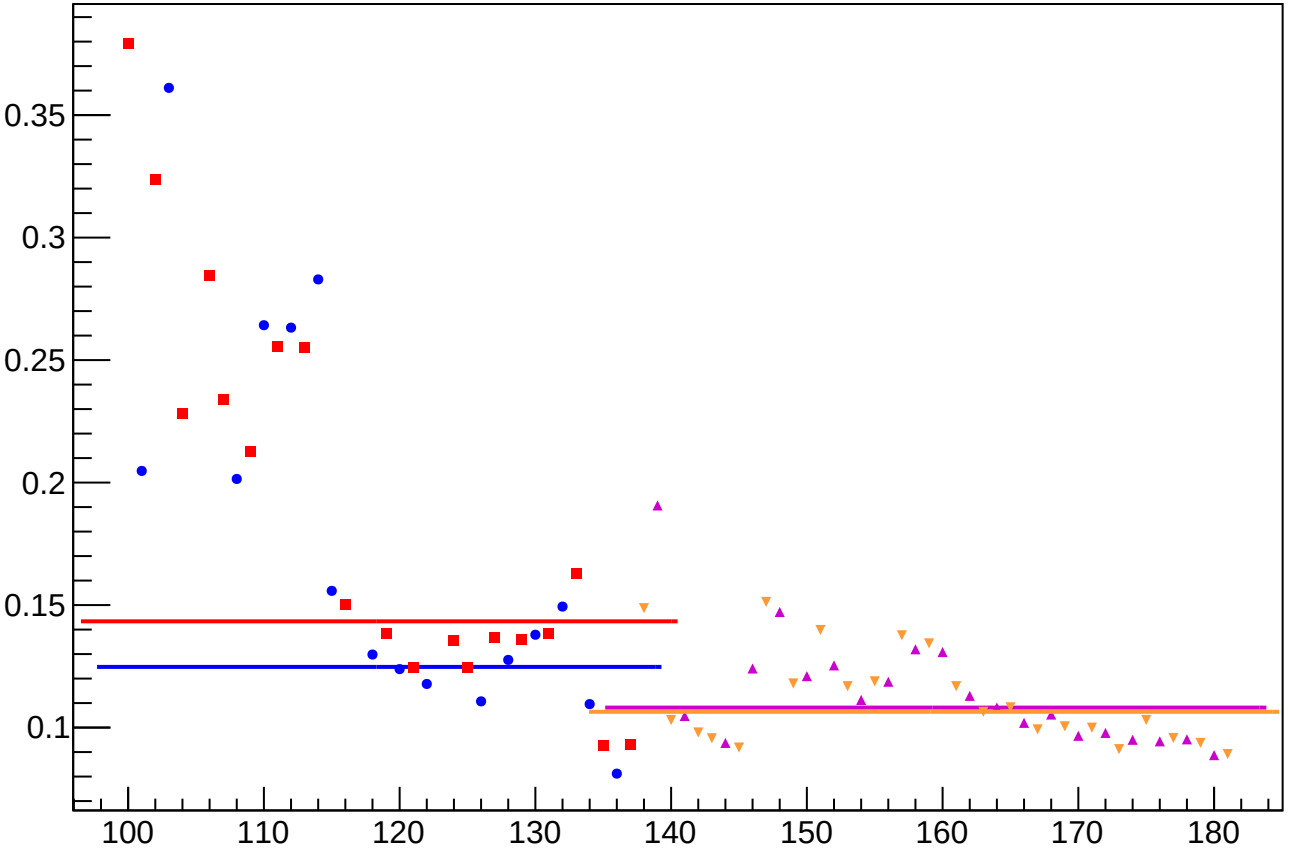
Right: 22.574+/-0.000 $\chi^2$/NDF: 2456494994.8/34

In: 25.734+/-0.000 $\chi^2$/NDF:7847773189.3/36

Out: 25.709+/-0.000 $\chi^2$/NDF:8594323235.0/41

All: 25.721+/-0.000 $\chi^2$/NDF: 16442585855.9

# yield_sam2_rms vs Slug, Sign Corrected




Right In: 0.125+/-0.000 $\chi^2$/NDF: 1749818.7/15

Left Out: 0.106+/-0.000 $\chi^2$/NDF:738308.3/22

Right Out: 0.143+/-0.000 $\chi^2$/NDF: 1570103.9/18

Left In: 0.108+/-0.000 $\chi^2$/NDF:833393.8/20

Left: 0.107+/-0.000 $\chi^2$/NDF: 1575579.1/43

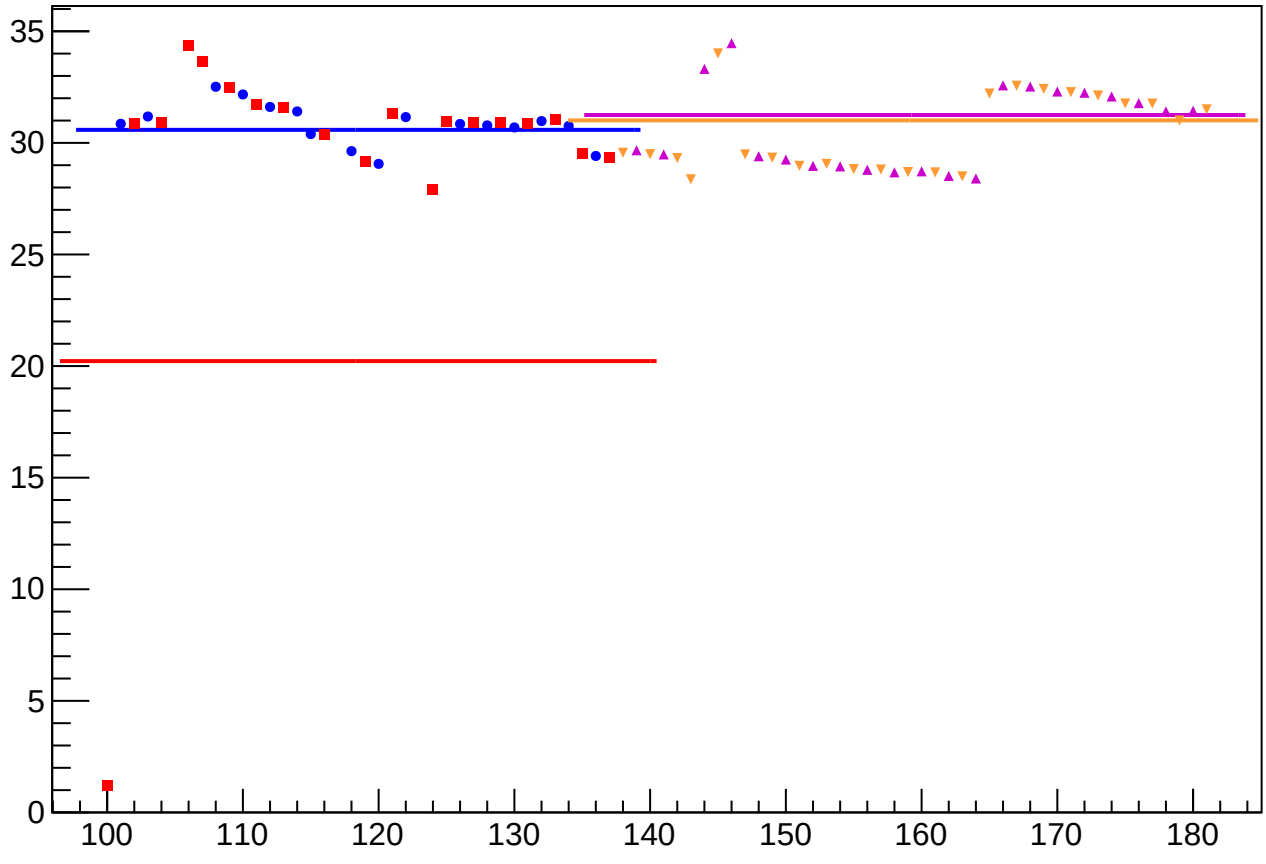
Right: 0.133+/-0.000 $\chi^2$/NDF: 3426627.7/34

In: 0.112+/-0.000 $\chi^2$/NDF:2732155.6/36

Out: 0.113+/-0.000 $\chi^2$/NDF:2942786.1/41

All: 0.112+/-0.000 $\chi^2$/NDF: 5676354.7/78

# yield_sam3_mean vs Slug, Sign Corrected




Right In: 30.585+/-0.000 $\chi^2$/NDF: 652266844.4/15

Left Out: 31.008+/-0.000 $\chi^2$/NDF:11845724016.4/22

Right Out: 20.224+/-0.000 $\chi^2$/NDF: 221262816636.2/18

Left In: 31.249+/-0.000 $\chi^2$/NDF:12572487942.1/20

Left: 31.127+/-0.000 $\chi^2$/NDF: 24533159924.7/43

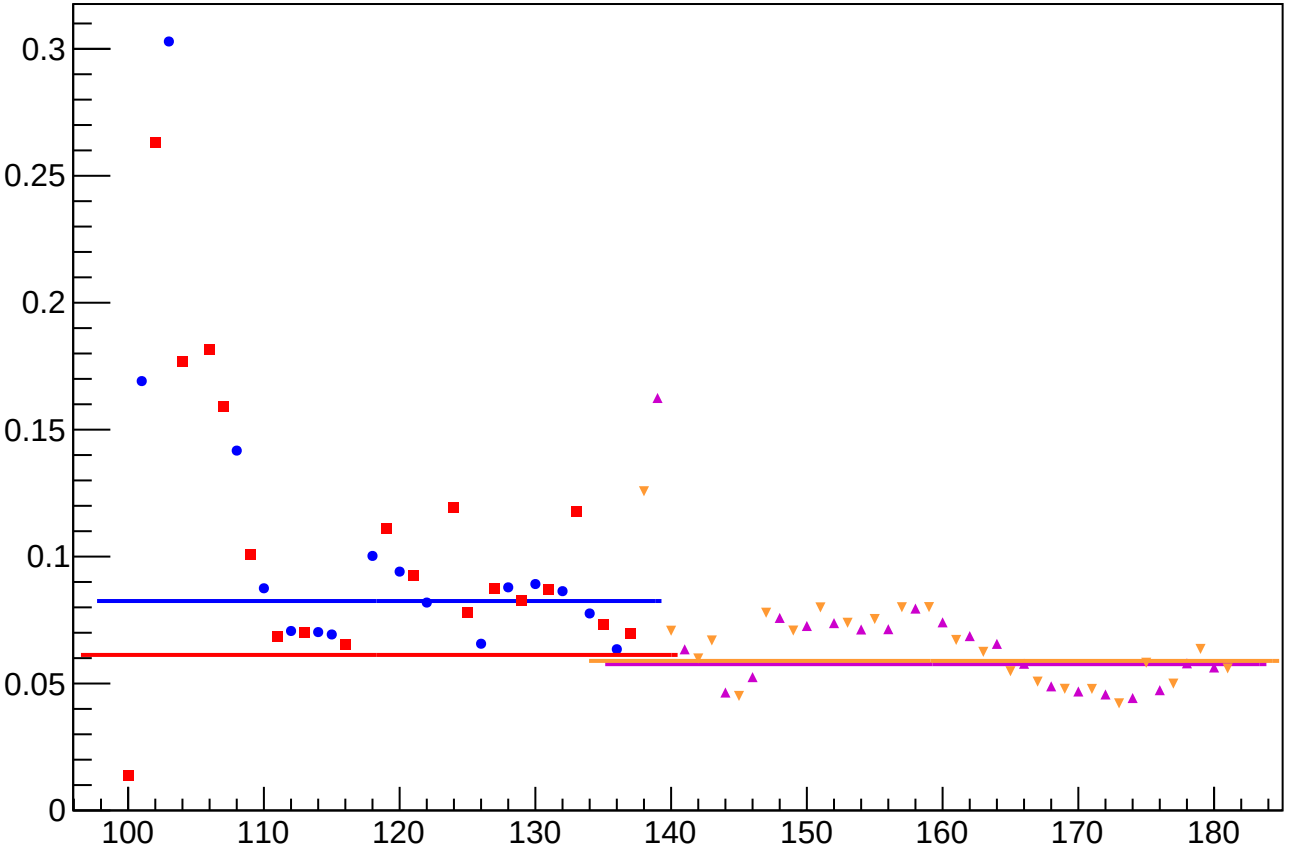
Right: 24.530+/-0.000 $\chi^2$/NDF: 270460315915.7/34

In: 31.139+/-0.000 $\chi^2$/NDF:13509706844.1/36

Out: 28.714+/-0.000 $\chi^2$/NDF:332730898217.1/41

All: 29.873+/-0.000 $\chi^2$/NDF: 360622206176.

# yield_sam3_rms vs Slug, Sign Corrected




Right In: 0.082+/-0.000 $\chi^2$/NDF: 1261492.7/15

Left Out: 0.059+/-0.000 $\chi^2$/NDF:1507918.8/22

Right Out: 0.061+/-0.000 $\chi^2$/NDF: 4014305.3/18

Left In: 0.058+/-0.000 $\chi^2$/NDF:1695934.7/20

Left: 0.058+/-0.000 $\chi^2$/NDF: 3210386.5/43

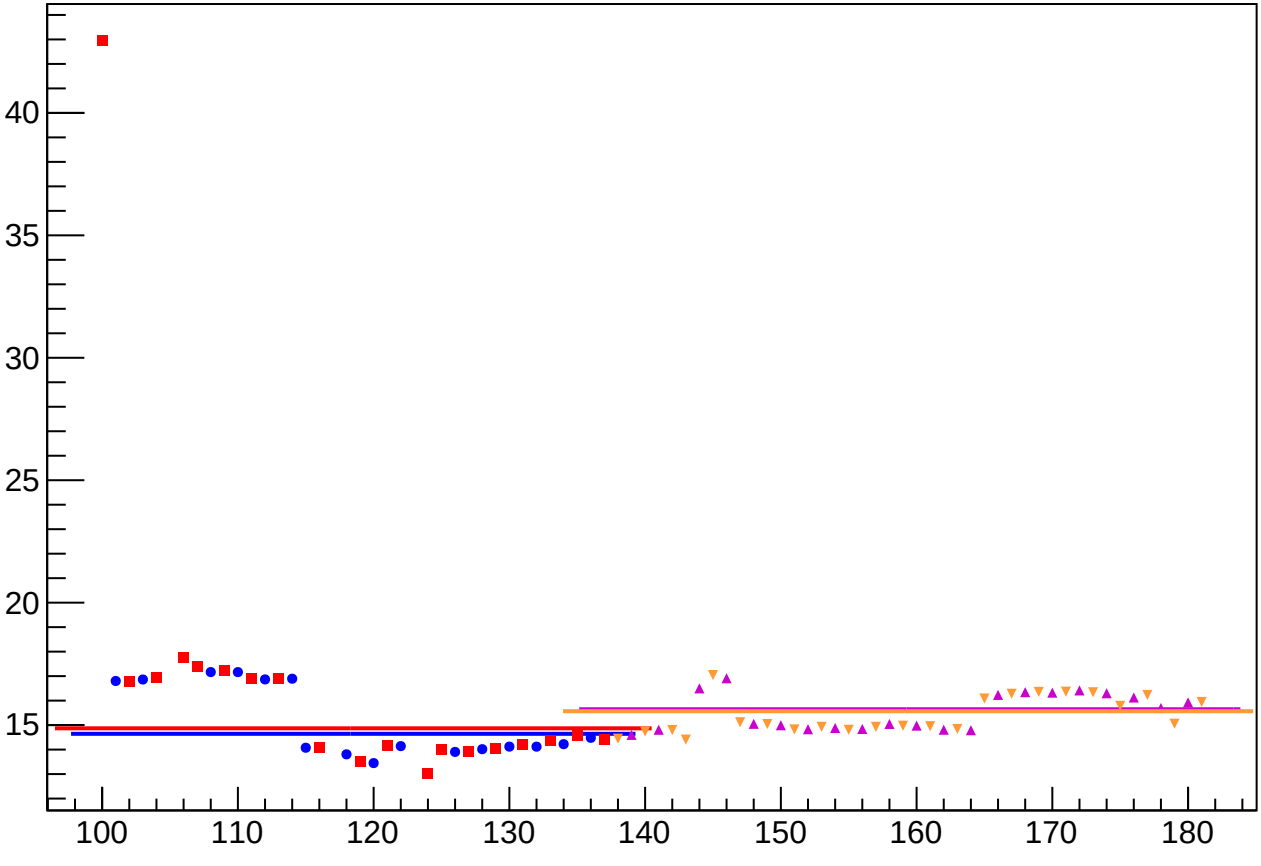
Right: 0.070+/-0.000 $\chi^2$/NDF: 5683622.8/34

In: 0.062+/-0.000 $\chi^2$/NDF:3756703.8/36

Out: 0.059+/-0.000 $\chi^2$/NDF:5531717.6/41

All: 0.061+/-0.000 $\chi^2$/NDF: 9314845.3/78

# yield_sam4_mean vs Slug, Sign Corrected




Right In: 14.644+/-0.000 $\chi^2$/NDF: 1193913109.5/15

Left Out: 15.567+/-0.000 $\chi^2$/NDF:2198787215.8/22

Right Out: 14.868+/-0.000 $\chi^2$/NDF: 1730040006.8/18

Left In: 15.647+/-0.000 $\chi^2$/NDF:1842819889.4/20

Left: 15.606+/-0.000 $\chi^2$/NDF: 4053028061.2/43

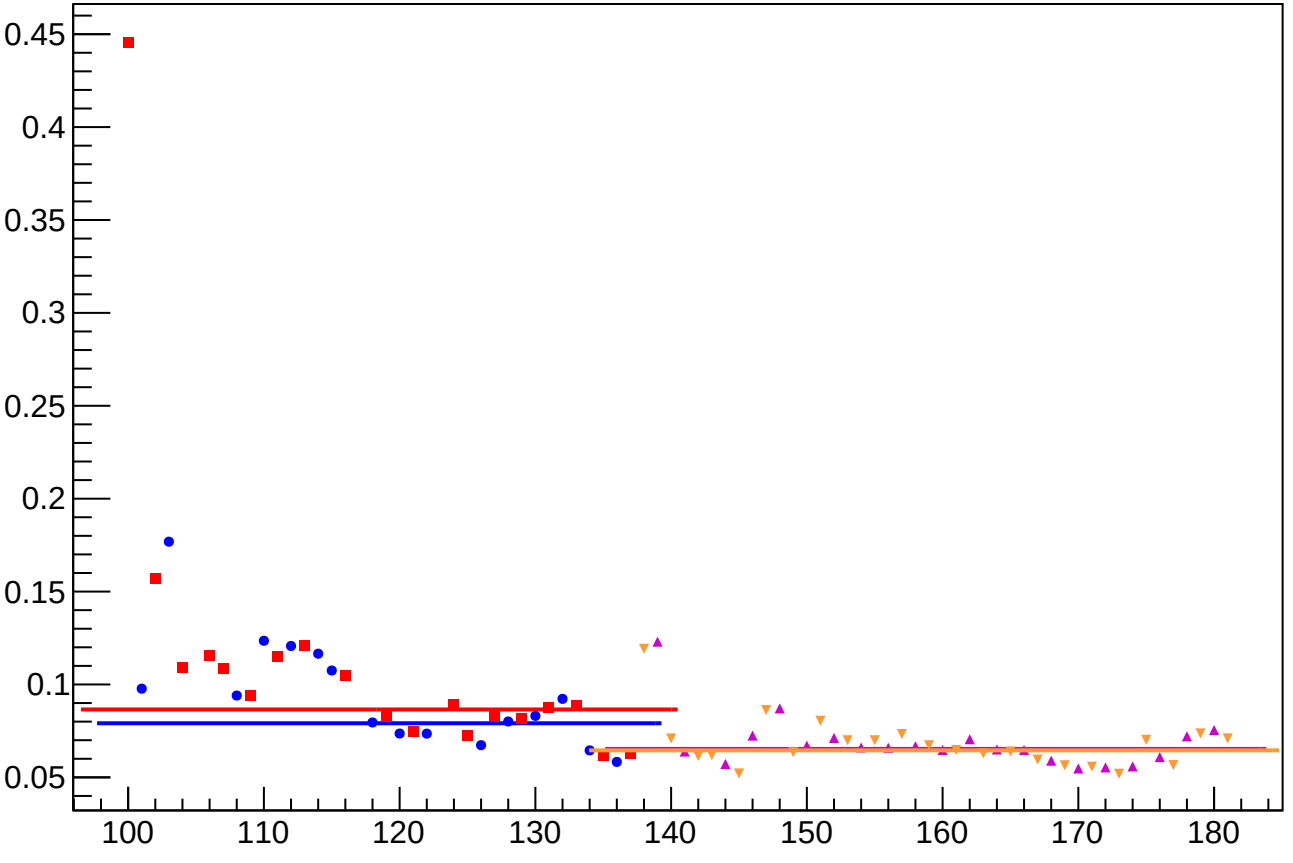
Right: 14.749+/-0.000 $\chi^2$/NDF: 2945878863.1/34

In: 15.432+/-0.000 $\chi^2$/NDF:3777964161.8/36

Out: 15.441+/-0.000 $\chi^2$/NDF:4257284120.7/41

All: 15.436+/-0.000 $\chi^2$/NDF: 8035426296.5/7

# yield_sam4_rms vs Slug, Sign Corrected




Right In: 0.079+/-0.000 $\chi^2$/NDF: 918198.7/15

Left Out: 0.065+/-0.000 $\chi^2$/NDF:807841.5/22

Right Out: 0.087+/-0.000 $\chi^2$/NDF: 793345.8/18

Left In: 0.065+/-0.000 $\chi^2$/NDF:725790.0/20

Left: 0.065+/-0.000 $\chi^2$/NDF: 1535671.6/43

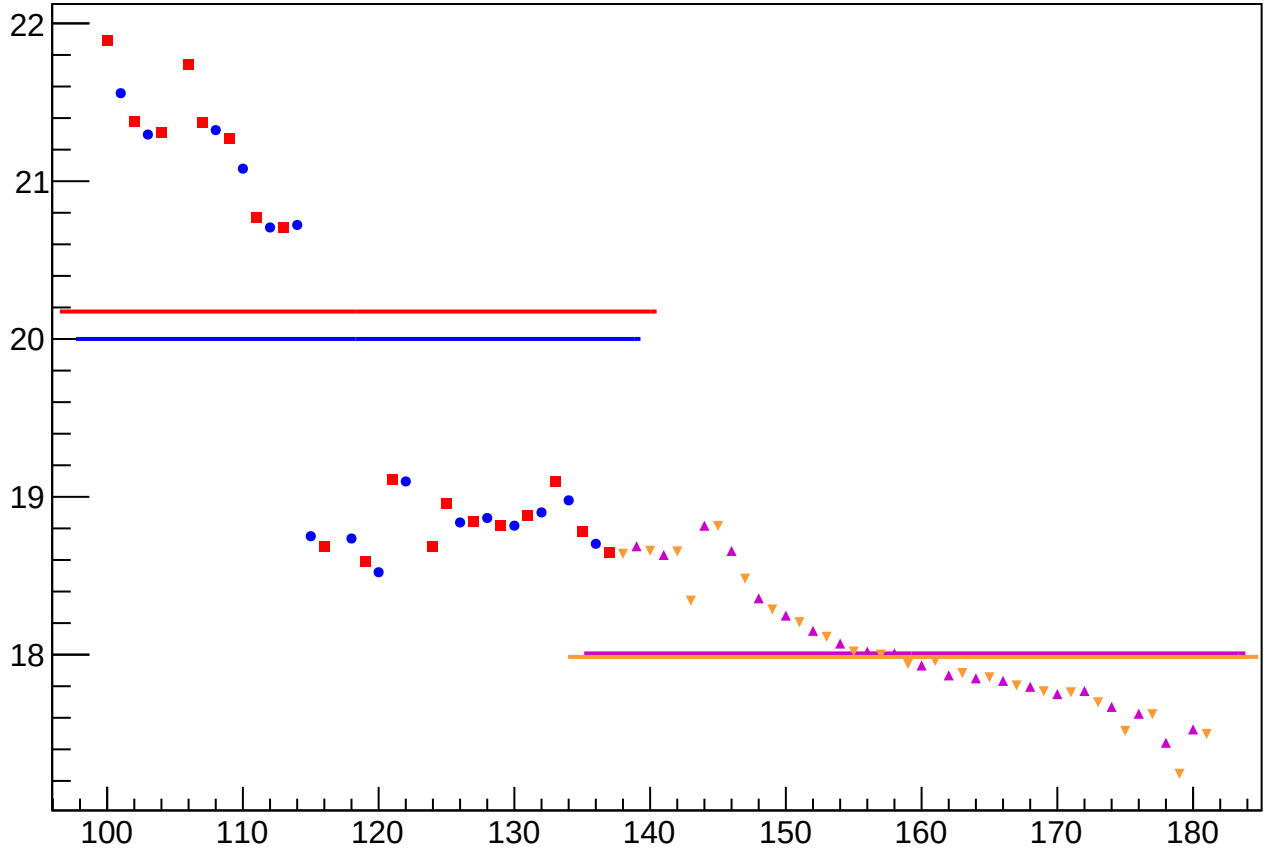
Right: 0.083+/-0.000 $\chi^2$/NDF: 1759748.9/34

In: 0.068+/-0.000 $\chi^2$/NDF:1925282.1/36

Out: 0.069+/-0.000 $\chi^2$/NDF:2251207.6/41

All: 0.068+/-0.000 $\chi^2$/NDF: 4176780.4/78

# yield_sam5_mean vs Slug, Sign Corrected




Right In: 20.001+/-0.000 $\chi^2$/NDF: 10878846617.7/15

Left Out: 17.986+/-0.000 $\chi^2$/NDF:2850403422.8/22

Right Out: 20.174+/-0.000 $\chi^2$/NDF: 10426322430.8/18

Left In: 18.008+/-0.000 $\chi^2$/NDF:2452286861.2/20

Left: 17.996+/-0.000 $\chi^2$/NDF: 5307034755.4/43

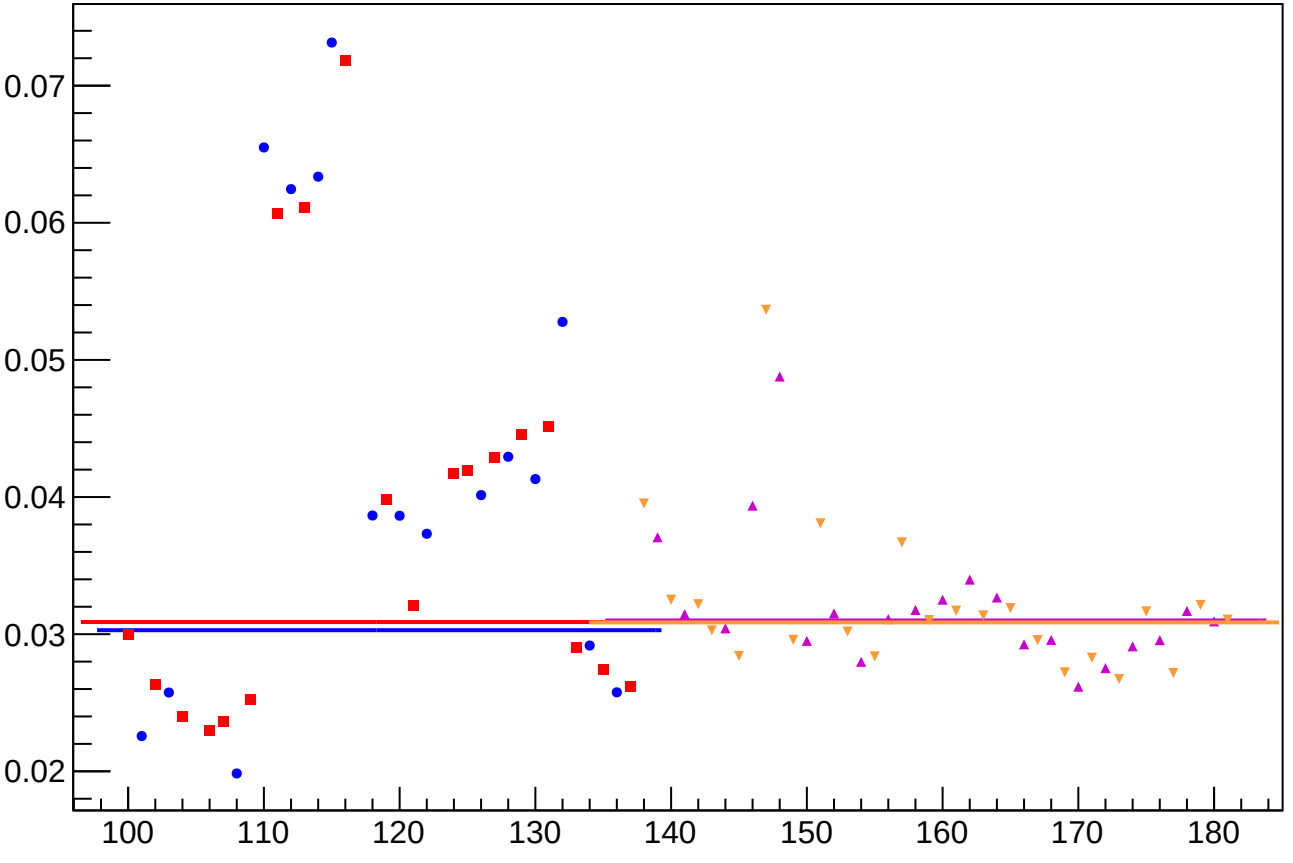
Right: 20.087+/-0.000 $\chi^2$/NDF: 21403297693.7/34

In: 18.559+/-0.000 $\chi^2$/NDF:31992144614.8/36

Out: 18.563+/-0.000 $\chi^2$/NDF:36258880721.5/41

All: 18.561+/-0.000 $\chi^2$/NDF: 68251202141.0

# yield_sam5_rms vs Slug, Sign Corrected




Right In: 0.030+/-0.000 $\chi^2$/NDF: 1447374.9/15

Left Out: 0.031+/-0.000 $\chi^2$/NDF:605483.8/22

Right Out: 0.031+/-0.000 $\chi^2$/NDF: 1204729.6/18

Left In: 0.031+/-0.000 $\chi^2$/NDF:470001.9/20

Left: 0.031+/-0.000 $\chi^2$/NDF: 1075827.9/43

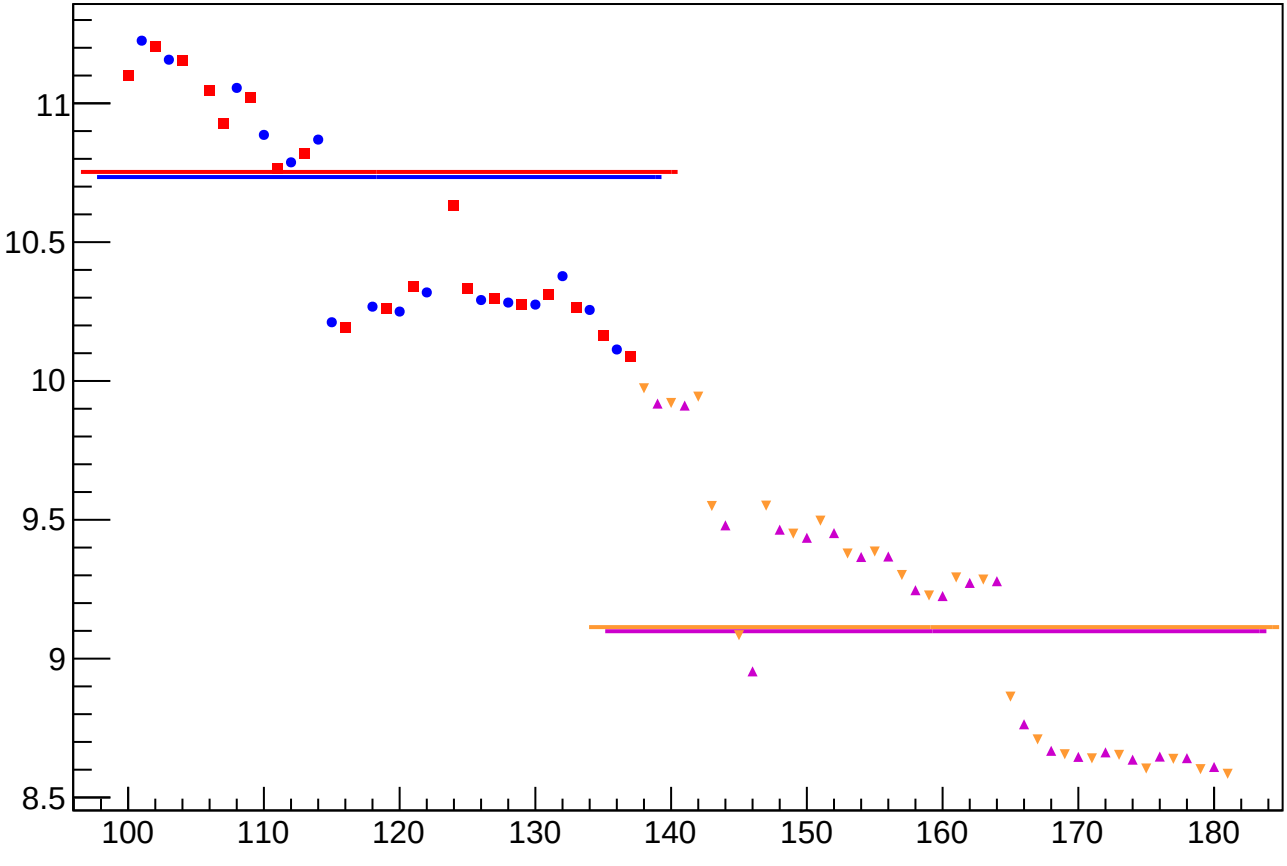
Right: 0.031+/-0.000 $\chi^2$/NDF: 2654419.8/34

In: 0.031+/-0.000 $\chi^2$/NDF:1922106.9/36

Out: 0.031+/-0.000 $\chi^2$/NDF:1810220.2/41

All: 0.031+/-0.000 $\chi^2$/NDF: 3732425.0/78

# yield_sam6_mean vs Slug, Sign Corrected




Right In: 10.734+/-0.000 $\chi^2$/NDF: 5879444478.4/15

Left Out: 9.114+/-0.000 $\chi^2$/NDF:9593570878.7/22

Right Out: 10.753+/-0.000 $\chi^2$/NDF: 4344265704.2/18

Left In: 9.099+/-0.000 $\chi^2$/NDF:7417342882.8/20

Left: 9.107+/-0.000 $\chi^2$/NDF: 17015733238.5/43

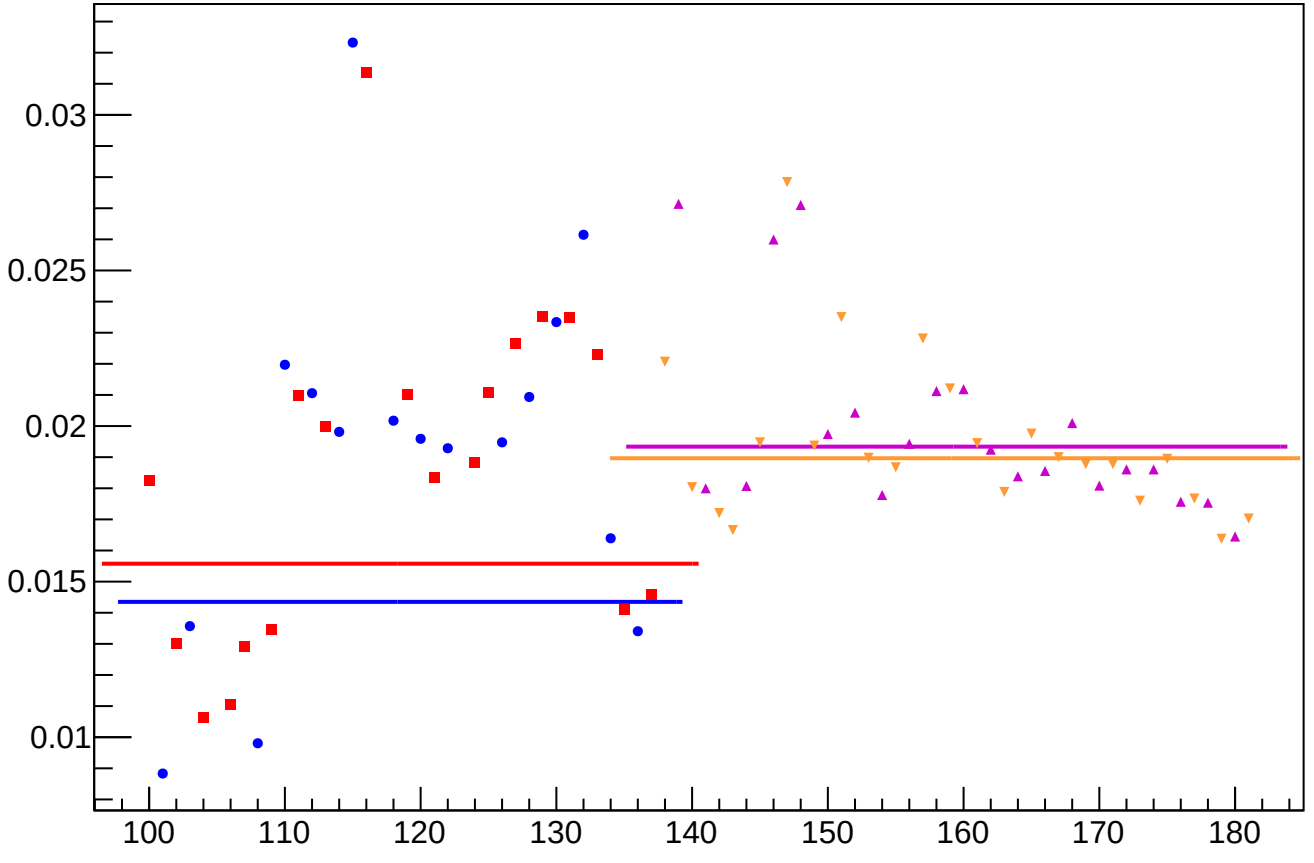
Right: 10.743+/-0.000 $\chi^2$/NDF: 10228218714.9/34

In: 9.751+/-0.000 $\chi^2$/NDF:57712141231.0/36

Out: 9.697+/-0.000 $\chi^2$/NDF:58109480619.8/41

All: 9.723+/-0.000 $\chi^2$/NDF: 115926541059.7

# yield_sam6_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1481790.8/15

Left Out: 0.019+/-0.000 $\chi^2$/NDF:433542.5/22

Right Out: 0.016+/-0.000 $\chi^2$/NDF: 1071979.1/18

Left In: 0.019+/-0.000 $\chi^2$/NDF:527437.2/20

Left: 0.019+/-0.000 $\chi^2$/NDF: 967058.2/43

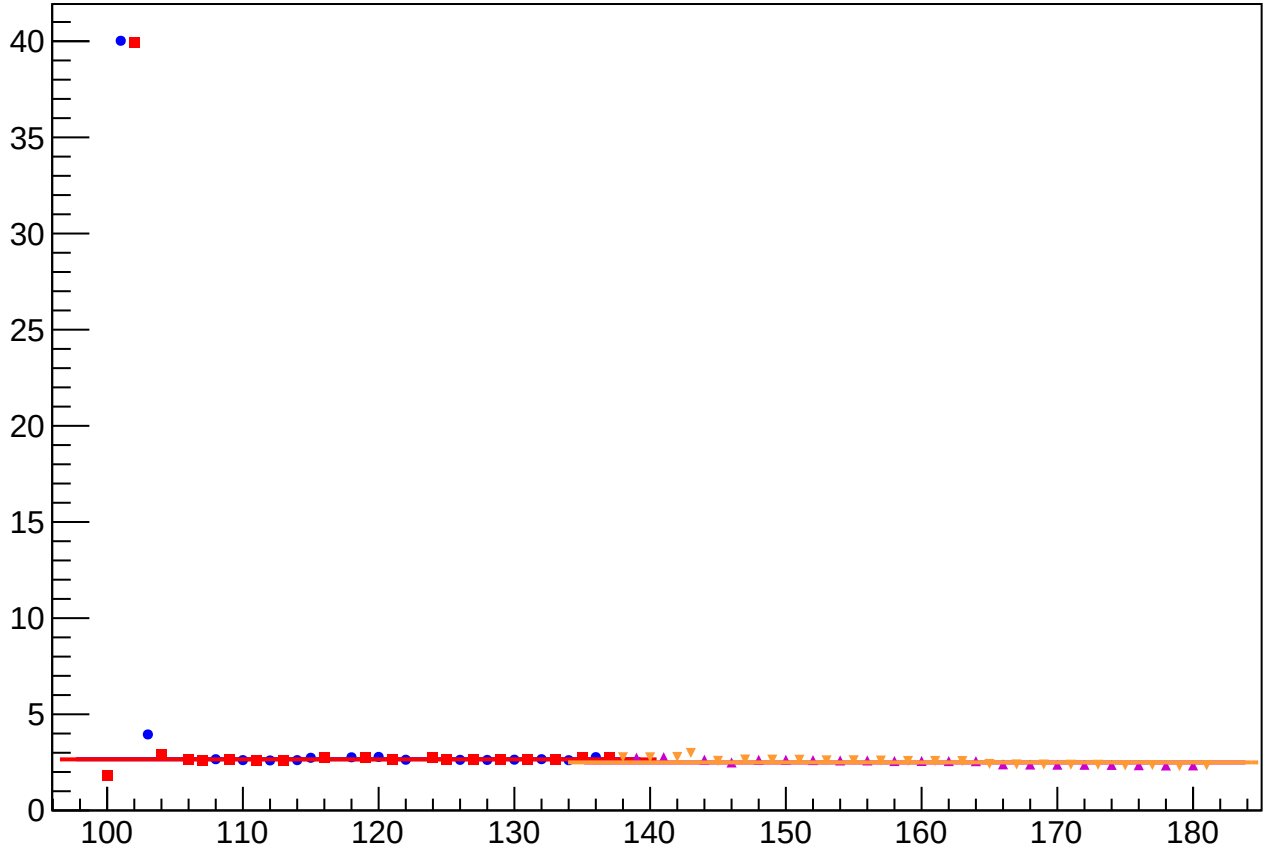
Right: 0.015+/-0.000 $\chi^2$/NDF: 2593711.2/34

In: 0.017+/-0.000 $\chi^2$/NDF:2835529.4/36

Out: 0.018+/-0.000 $\chi^2$/NDF:1883088.5/41

All: 0.018+/-0.000 $\chi^2$/NDF: 4730576.9/78

# yield_sam7_mean vs Slug, Sign Corrected




Right In: 2.664+/-0.000 $\chi^2$/NDF: 67839888284.3/15

Left Out: 2.499+/-0.000 $\chi^2$/NDF:88458220479.9/22

Right Out: 2.656+/-0.000 $\chi^2$/NDF: 65056887880.1/18

Left In: 2.496+/-0.000 $\chi^2$/NDF:57282662944.1/20

Left: 2.498+/-0.000 $\chi^2$/NDF: 145760570323.3/43

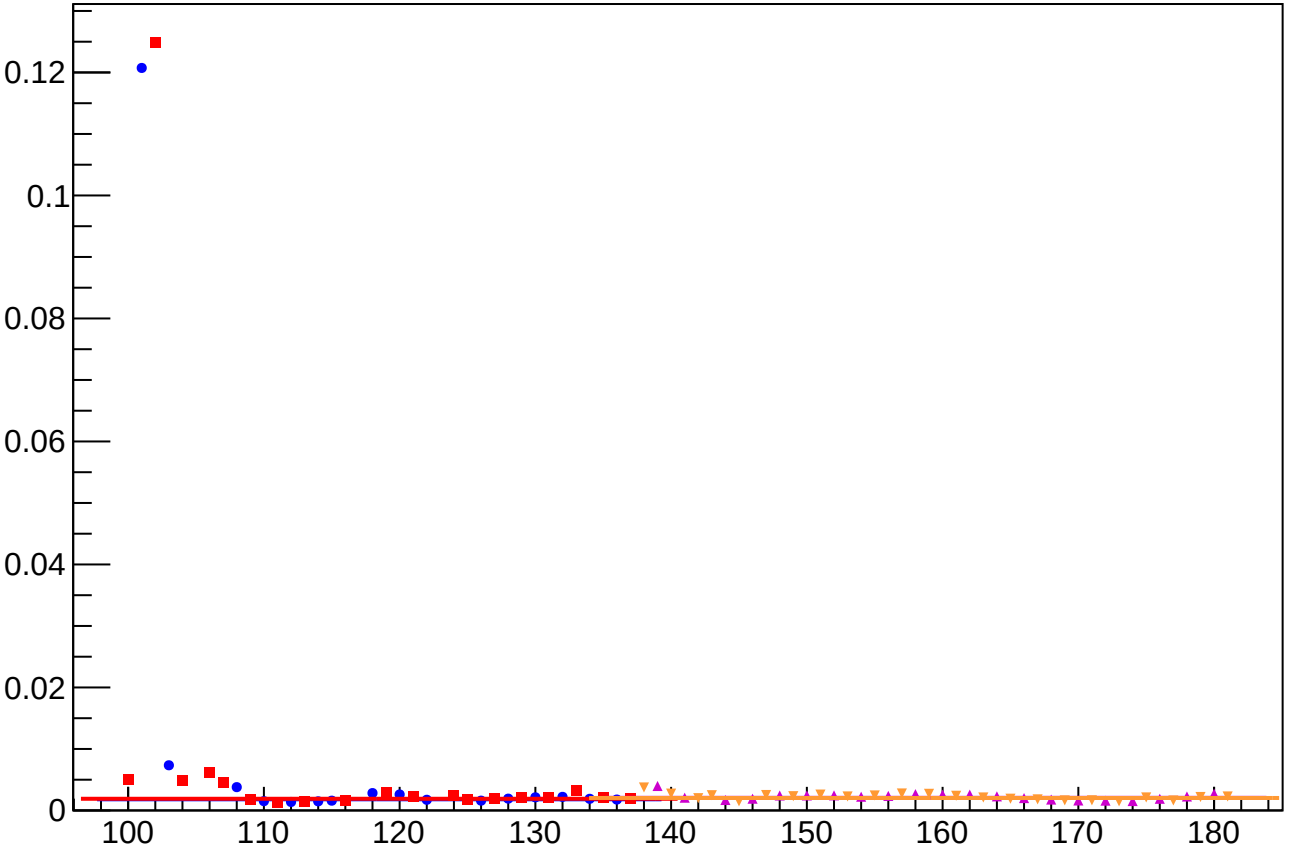
Right: 2.660+/-0.000 $\chi^2$/NDF: 132934575870.3/34

In: 2.547+/-0.000 $\chi^2$/NDF:153375113374.4/36

Out: 2.544+/-0.000 $\chi^2$/NDF:178380681656.3/41

All: 2.545+/-0.000 $\chi^2$/NDF: 331784363374.3

# yield_sam7_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1822680.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1479953.2/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2525514.7/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1331154.6/20

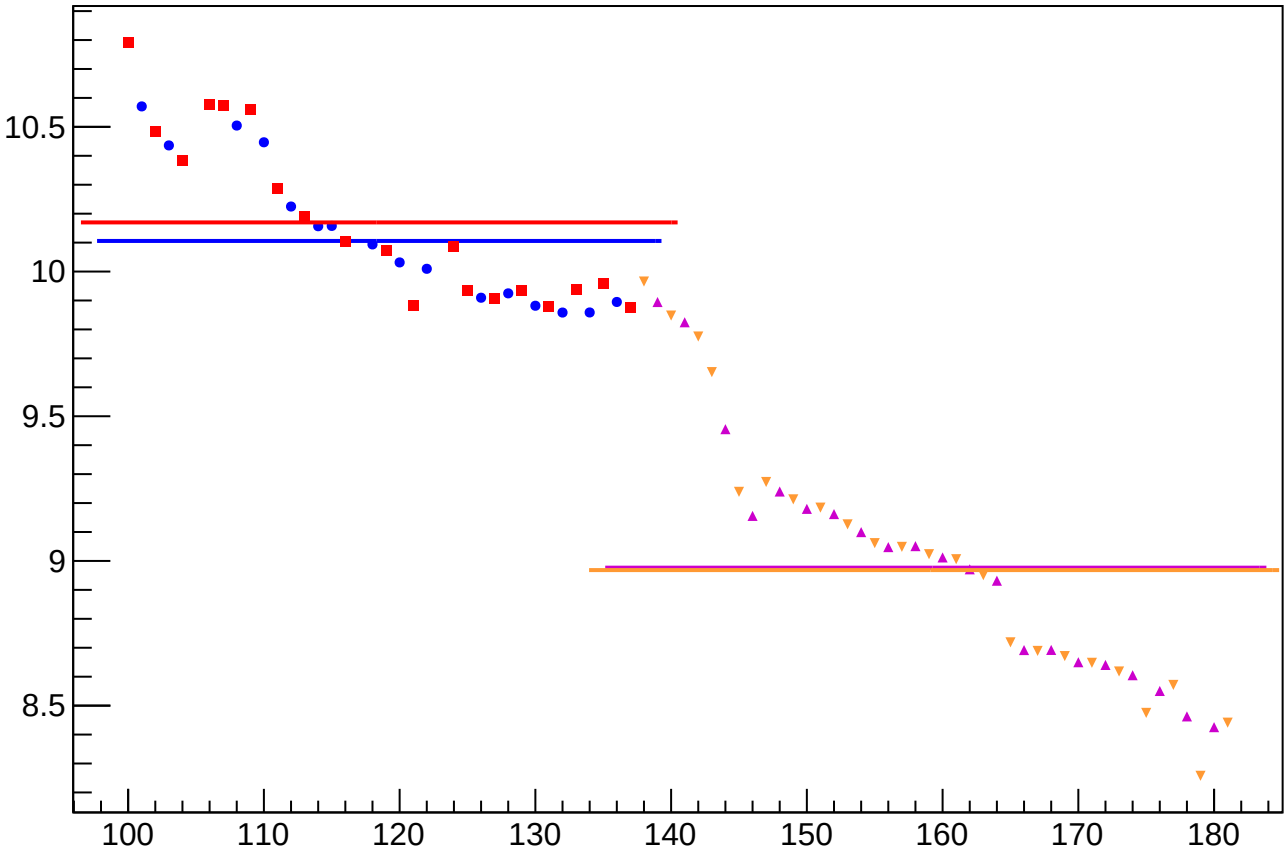
Left: 0.002+/-0.000 $\chi^2$/NDF: 2812913.4/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 4358433.6/34

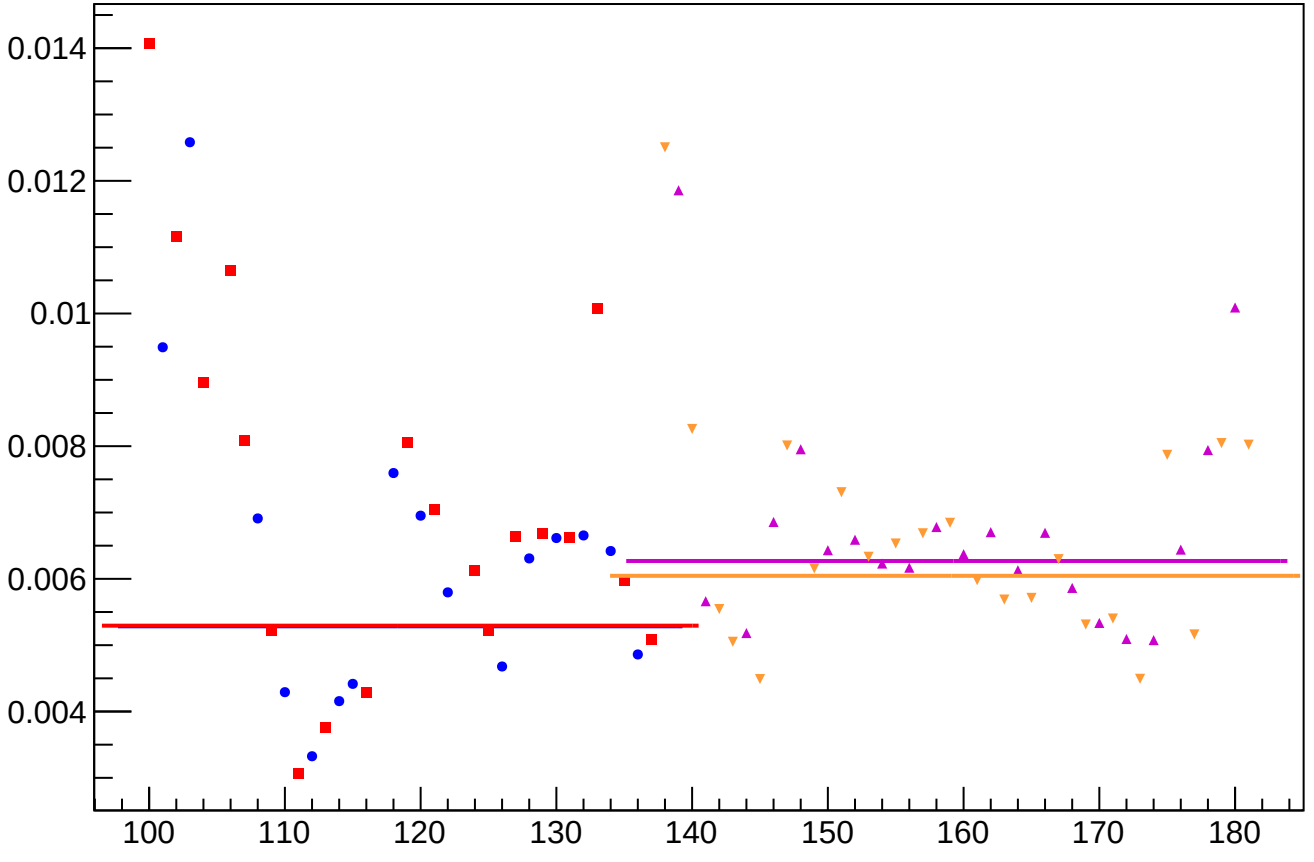
In: 0.002+/-0.000 $\chi^2$/NDF:3266677.1/36

Out: 0.002+/-0.000 $\chi^2$/NDF:4039170.9/41

All: 0.002+/-0.000 $\chi^2$/NDF: 7306646.9/78


yield_sam8_mean vs Slug, Sign Corrected
10.5
10
9.5
9
8.5
100
110
120
130
140
150
160
170
180
Right In: 10.106+/-0.000 χ²/NDF: 9126550621.3/15
Left Out: 8.968+/-0.000 χ²/NDF:60940773277.7/22
Right Out: 10.170+/-0.000 χ²/NDF: 9135610954.1/18
Left In: 8.977+/-0.000 χ²/NDF:46749621065.8/20
Left: 8.972+/-0.000 χ²/NDF: 107703386546.9/43
Right: 10.138+/-0.000 χ²/NDF: 18662438112.6/34
In: 9.379+/-0.000 χ²/NDF:214701098810.6/36
Out: 9.367+/-0.000 χ²/NDF:259923692196.0/41
All: 9.373+/-0.000 χ²/NDF: 474661440692.6

# yield_sam8_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1274133.0/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:1317782.4/22

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 1792250.8/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:1007128.5/20

Left: 0.006+/-0.000 $\chi^2$/NDF: 2343480.6/43

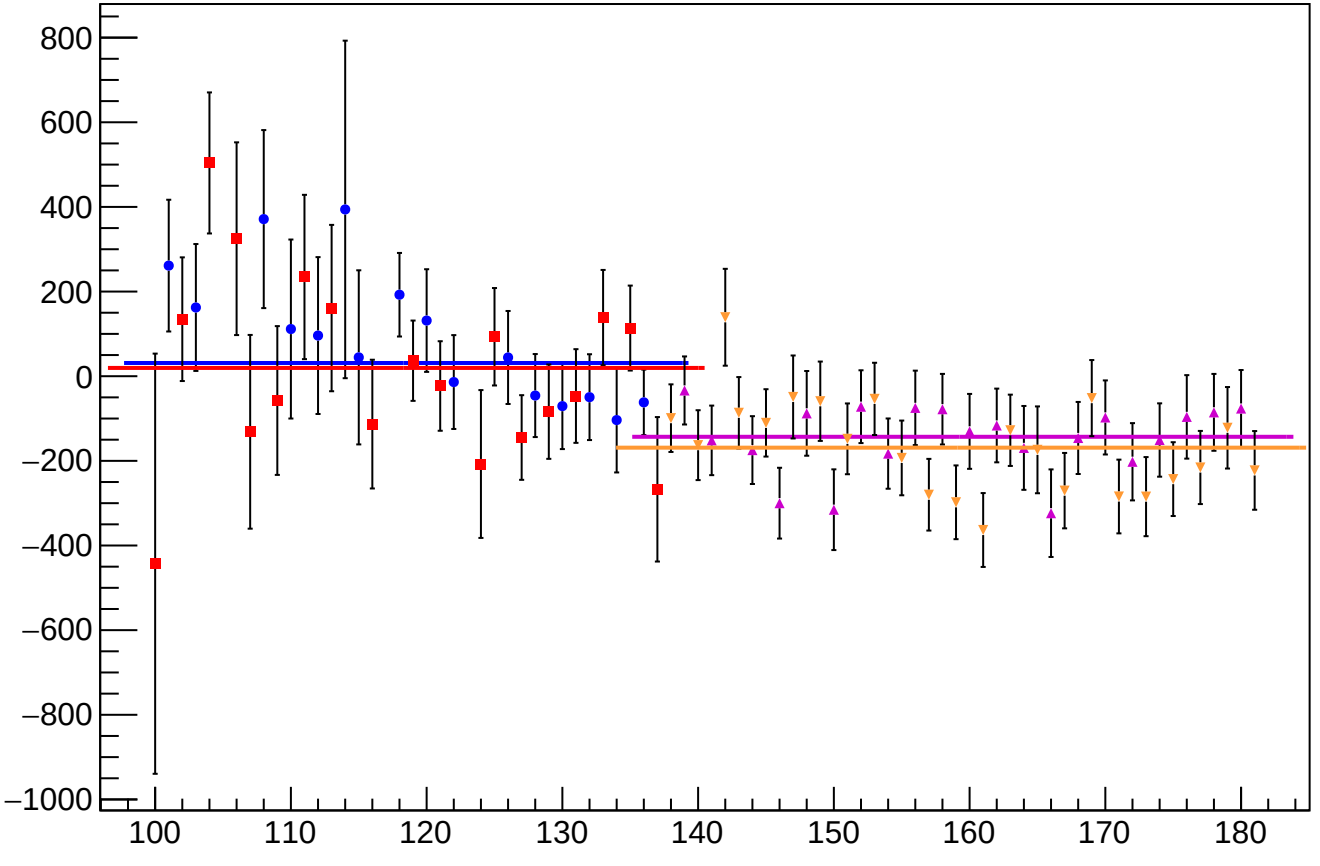
Right: 0.005+/-0.000 $\chi^2$/NDF: 3066401.4/34

In: 0.006+/-0.000 $\chi^2$/NDF:2522920.9/36

Out: 0.006+/-0.000 $\chi^2$/NDF:3258694.8/41

All: 0.006+/-0.000 $\chi^2$/NDF: 5790138.5/78

# reg_asym_sam1_mean vs Slug, Sign Corrected




Right In: 31.249+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -168.818+/-18.481 $\chi^2$/NDF:31.3/22

Right Out: 19.573+/-31.059 $\chi^2$/NDF: 25.9/18

Left In: -143.134+/-19.295 $\chi^2$/NDF:16.3/20

Left: -156.530+/-13.347 $\chi^2$/NDF: 48.6/43

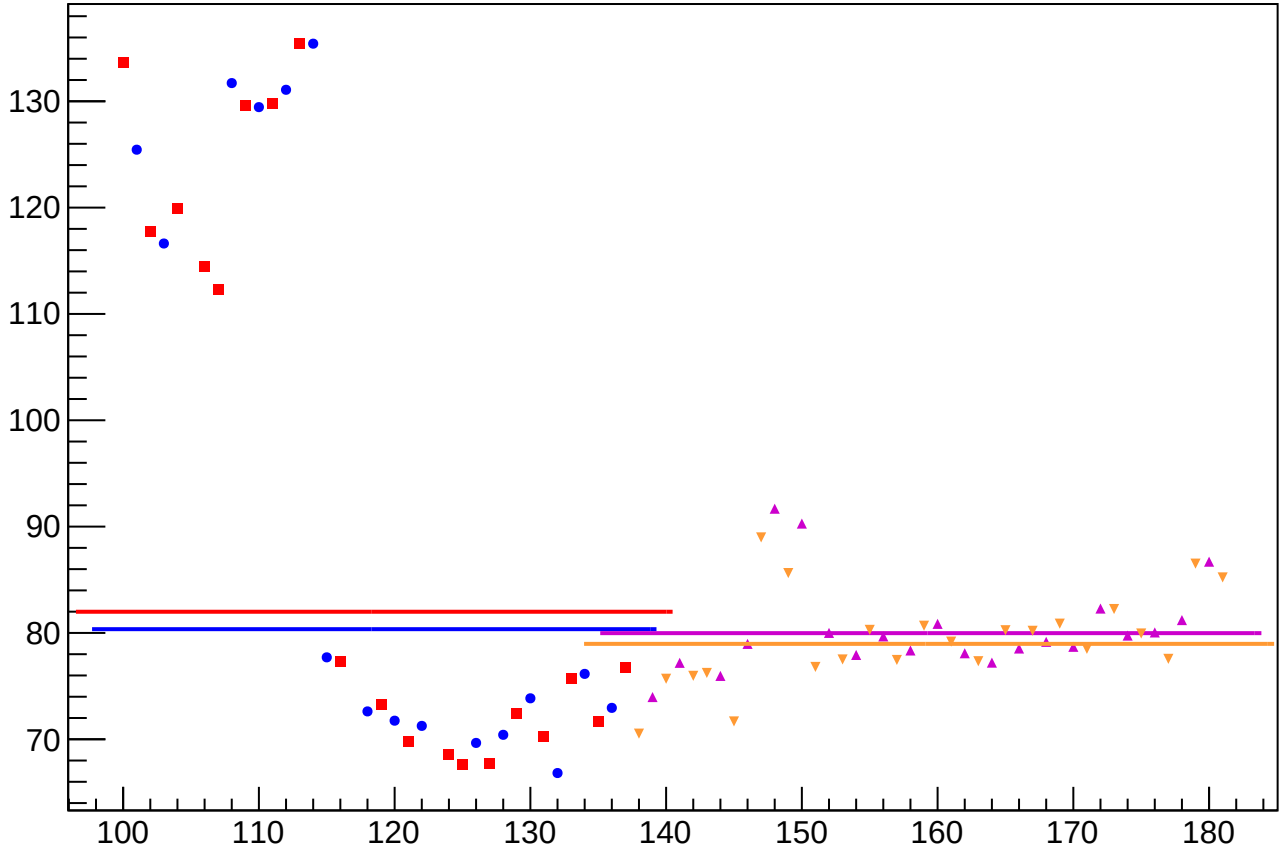
Right: 25.463+/-21.865 $\chi^2$/NDF: 41.1/34

In: -93.954+/-16.349 $\chi^2$/NDF:54.4/36

Out: -119.556+/-15.882 $\chi^2$/NDF:84.4/41

All: -107.126+/-11.392 $\chi^2$/NDF: 140.1/78

# reg_asym_sam1_rms vs Slug, Sign Corrected




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.5/15

Left Out: 78.972+/-0.013 $\chi^2$/NDF:107498.6/22

Right Out: 81.993+/-0.022 $\chi^2$/NDF: 932337.7/18

Left In: 79.980+/-0.014 $\chi^2$/NDF:87800.8/20

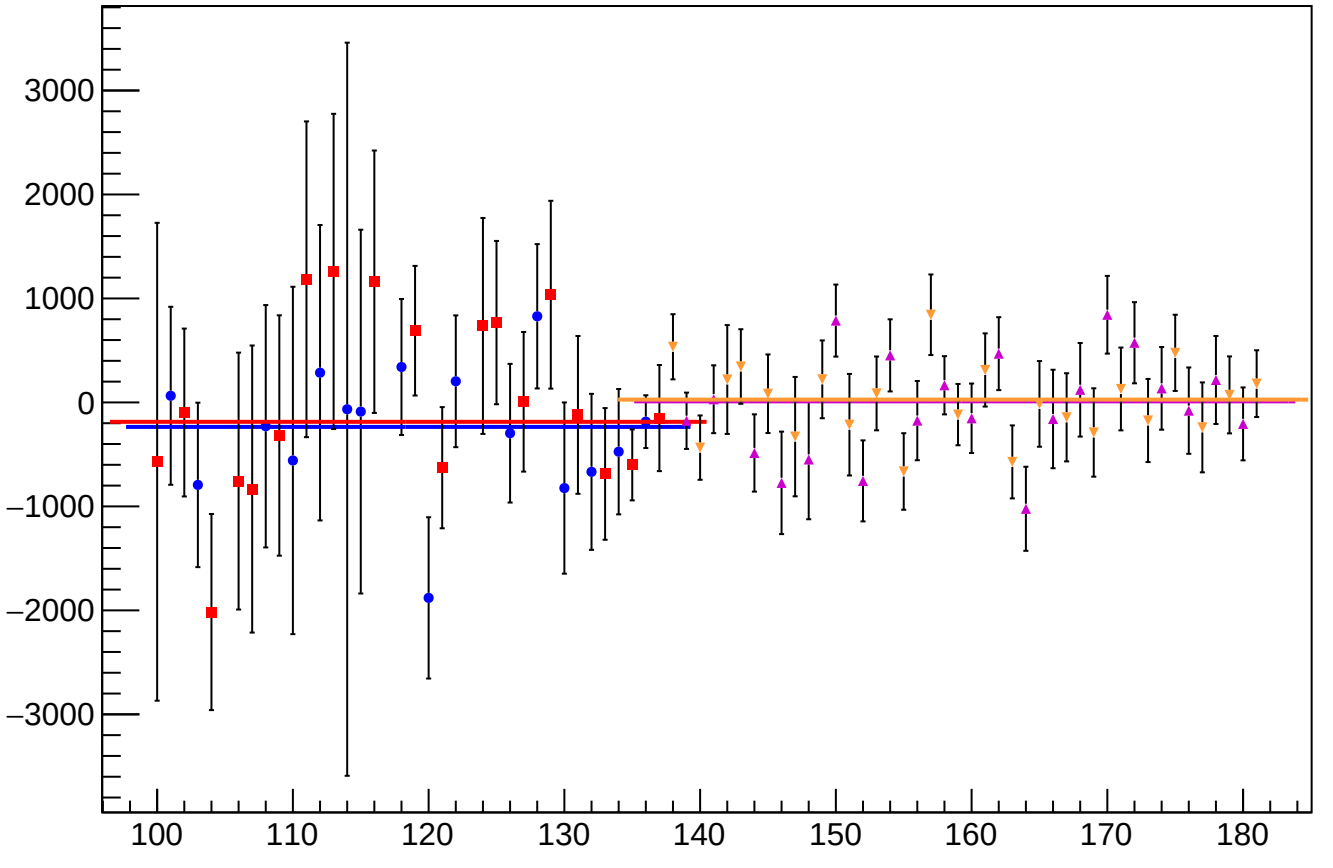
Left: 79.455+/-0.009 $\chi^2$/NDF: 198145.1/43

Right: 81.166+/-0.015 $\chi^2$/NDF: 1775186.5/34

In: 80.086+/-0.012 $\chi^2$/NDF:928052.0/36

Out: 79.762+/-0.011 $\chi^2$/NDF:1053806.8/41

All: 79.919+/-0.008 $\chi^2$/NDF: 1982261.4/78




Right In: -235.521+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 27.077+/-78.461 $\chi^2$/NDF:21.7/22

Right Out: -186.618+/-170.394 $\chi^2$/NDF: 16.0/18

Left In: 10.276+/-80.990 $\chi^2$/NDF:33.3/20

Left: 18.943+/-56.353 $\chi^2$/NDF: 55.0/43

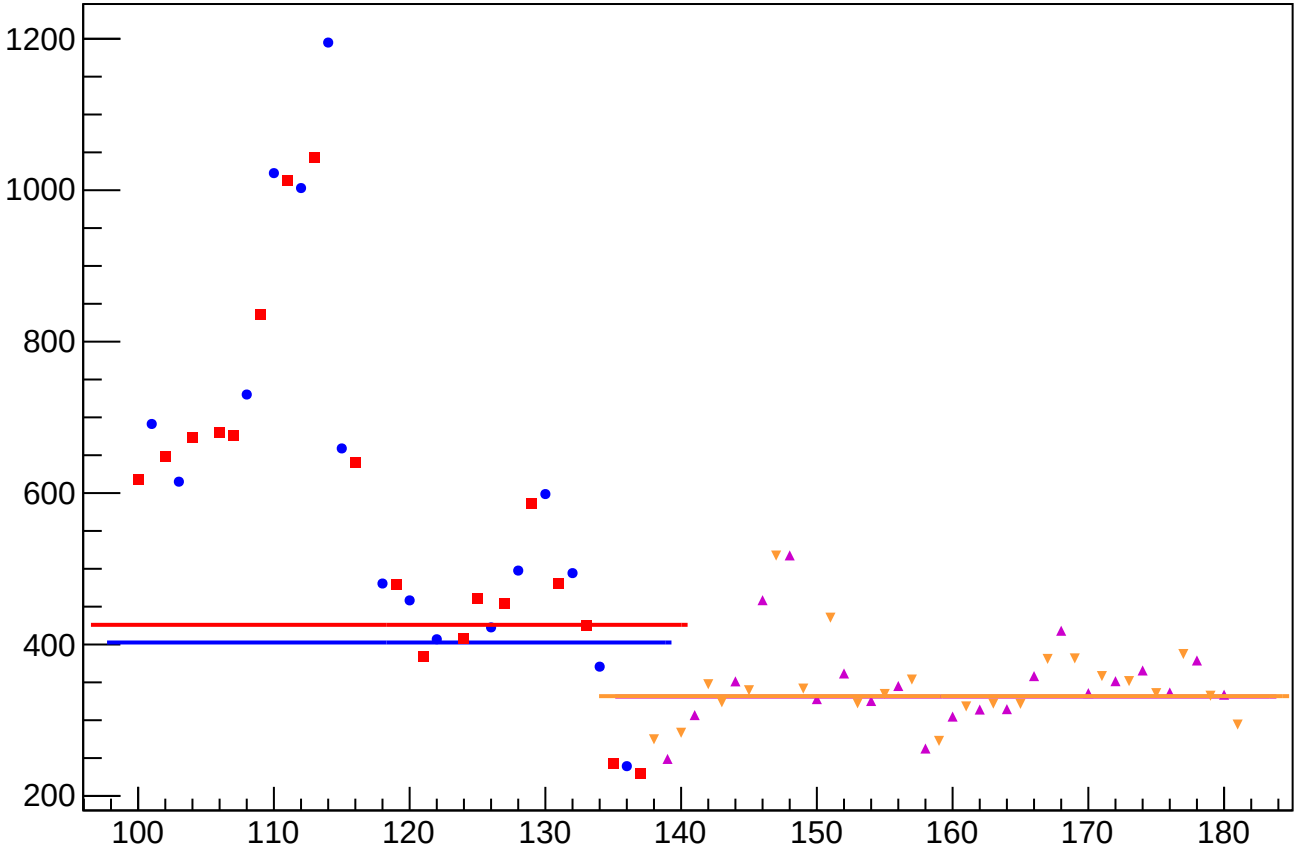
Right: -212.039+/-118.073 $\chi^2$/NDF: 25.9/34

In: -38.027+/-72.597 $\chi^2$/NDF:45.0/36

Out: -10.307+/-71.268 $\chi^2$/NDF:38.9/41

All: -23.911+/-50.858 $\chi^2$/NDF: 84.0/78

# asym_sam1_reg_correction_rms vs Slug, Sign Corrected




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360092.2/15

Left Out: 331.795+/-0.055 $\chi^2$/NDF:642476.8/22

Right Out: 425.980+/-0.120 $\chi^2$/NDF: 2368792.4/18

Left In: 331.256+/-0.057 $\chi^2$/NDF:830057.9/20

Left: 331.534+/-0.040 $\chi^2$/NDF: 1472580.4/43

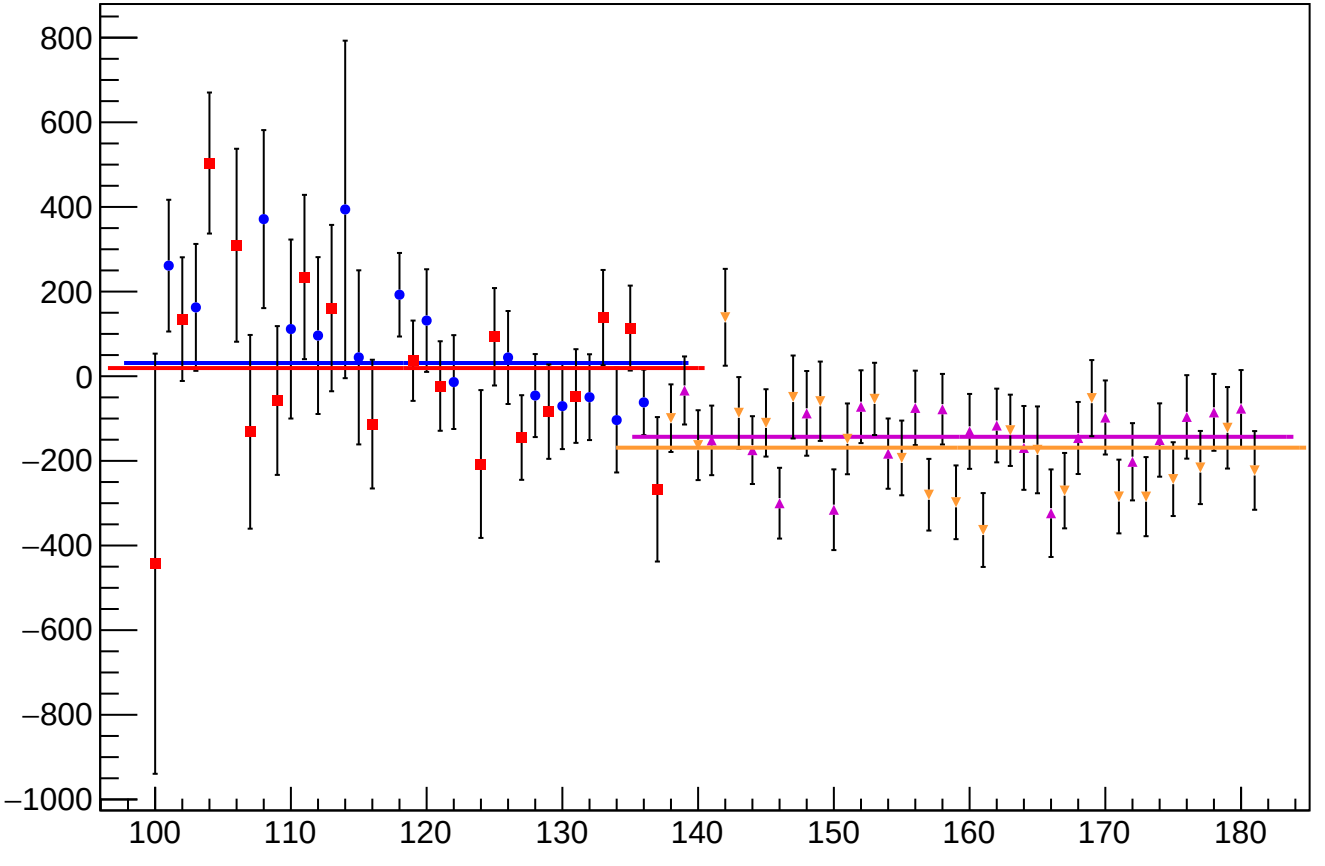
Right: 413.856+/-0.083 $\chi^2$/NDF: 4748361.6/34

In: 345.288+/-0.051 $\chi^2$/NDF:3495629.3/36

Out: 348.272+/-0.050 $\chi^2$/NDF:3515428.4/41

All: 346.807+/-0.036 $\chi^2$/NDF: 7012778.4/78

# cor_asym_sam1_mean vs Slug, Sign Corrected




Right In: 31.260+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -168.818+/-18.481 $\chi^2$/NDF:31.3/22

Right Out: 19.282+/-31.060 $\chi^2$/NDF: 25.7/18

Left In: -143.139+/-19.295 $\chi^2$/NDF:16.3/20

Left: -156.532+/-13.347 $\chi^2$/NDF: 48.6/43

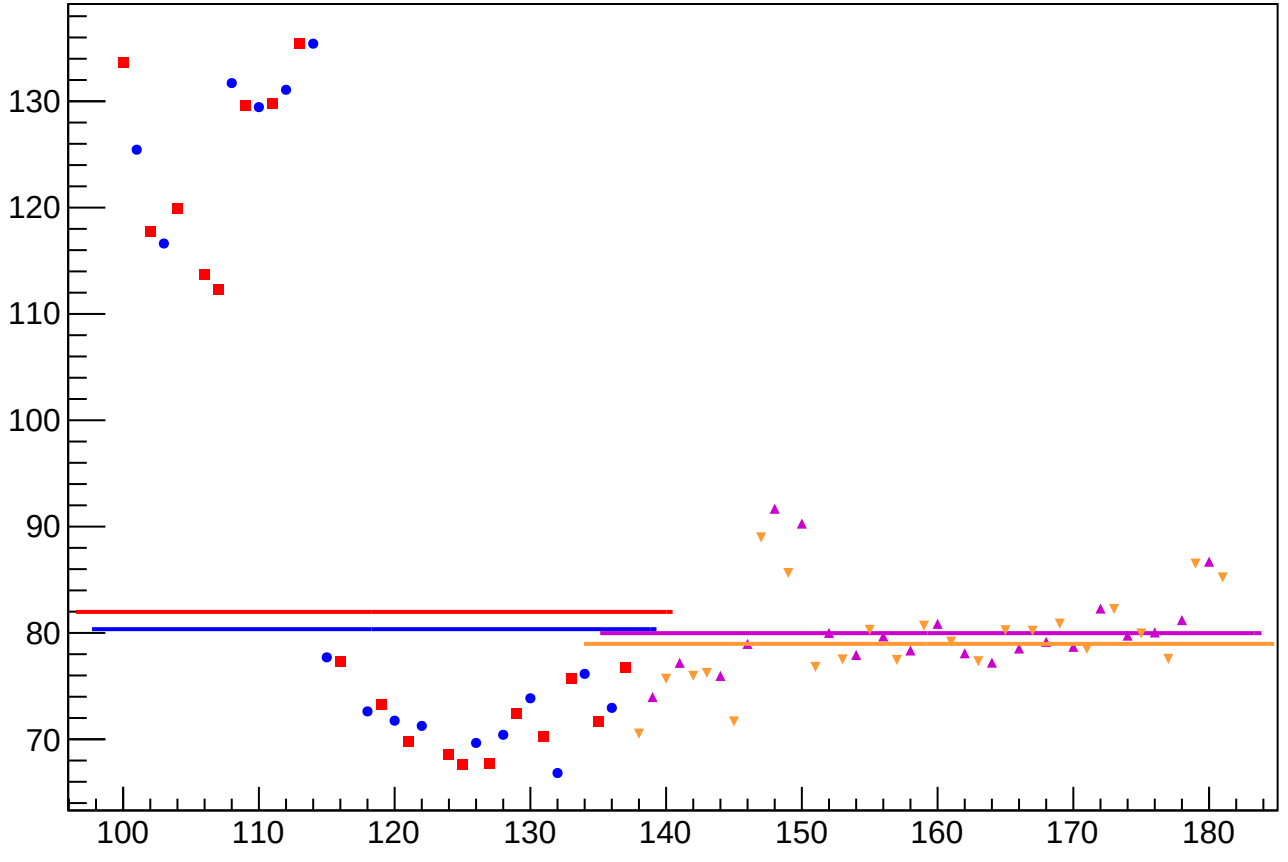
Right: 25.324+/-21.865 $\chi^2$/NDF: 40.9/34

In: -93.954+/-16.349 $\chi^2$/NDF:54.5/36

Out: -119.635+/-15.882 $\chi^2$/NDF:84.1/41

All: -107.167+/-11.392 $\chi^2$/NDF: 139.9/78

# cor_asym_sam1_rms vs Slug, Sign Corrected




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.7/15

Left Out: 78.972+/-0.013 $\chi^2$/NDF:107498.6/22

Right Out: 81.978+/-0.022 $\chi^2$/NDF: 930466.5/18

Left In: 79.980+/-0.014 $\chi^2$/NDF:87800.8/20

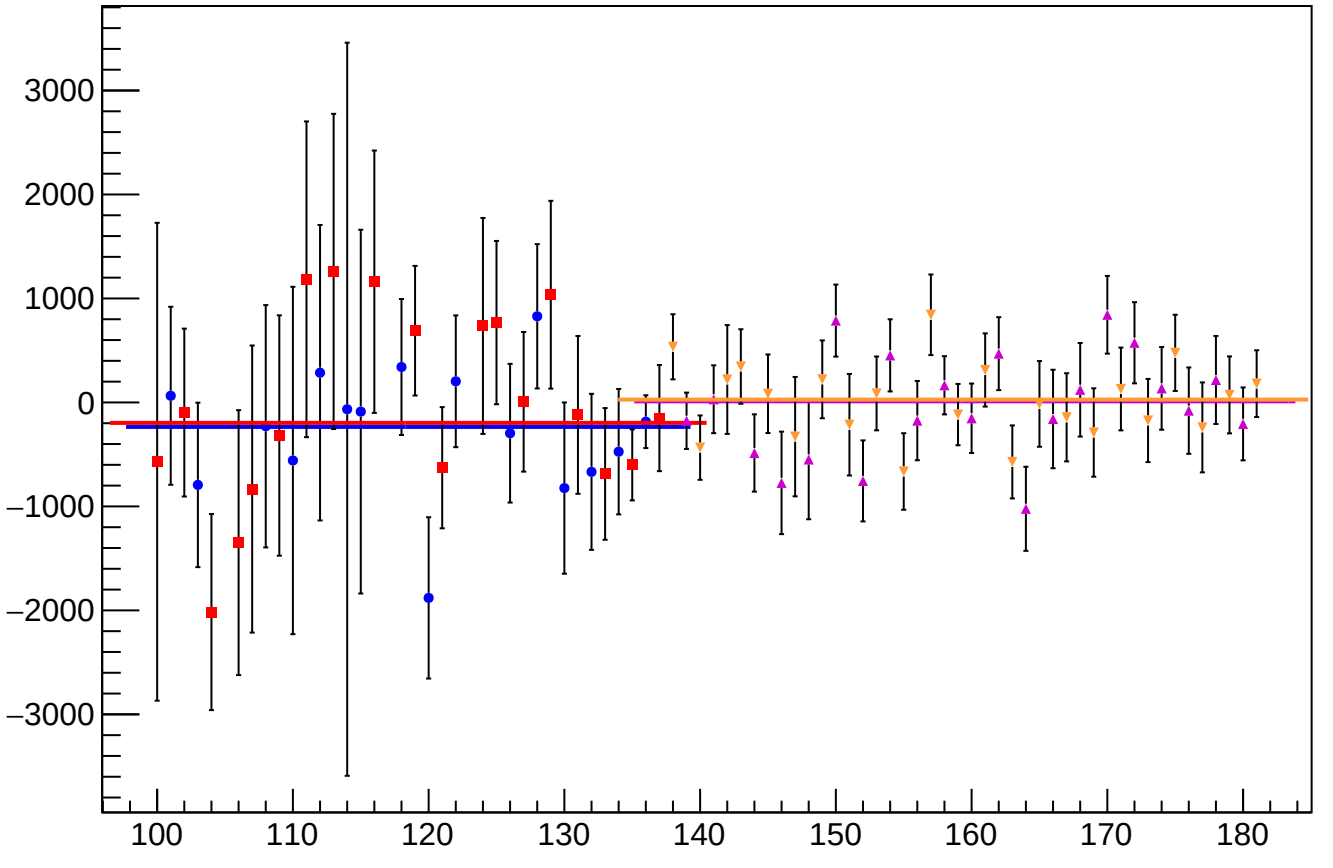
Left: 79.455+/-0.009 $\chi^2$/NDF: 198145.2/43

Right: 81.159+/-0.015 $\chi^2$/NDF: 1773264.0/34

In: 80.086+/-0.012 $\chi^2$/NDF:928052.2/36

Out: 79.758+/-0.011 $\chi^2$/NDF:1051796.2/41

All: 79.917+/-0.008 $\chi^2$/NDF: 1980261.0/78




Right In: -235.519+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 27.075+/-78.461 $\chi^2$/NDF:21.7/22

Right Out: -196.579+/-170.492 $\chi^2$/NDF: 16.6/18

Left In: 10.271+/-80.990 $\chi^2$/NDF:33.3/20

Left: 18.939+/-56.353 $\chi^2$/NDF: 55.0/43

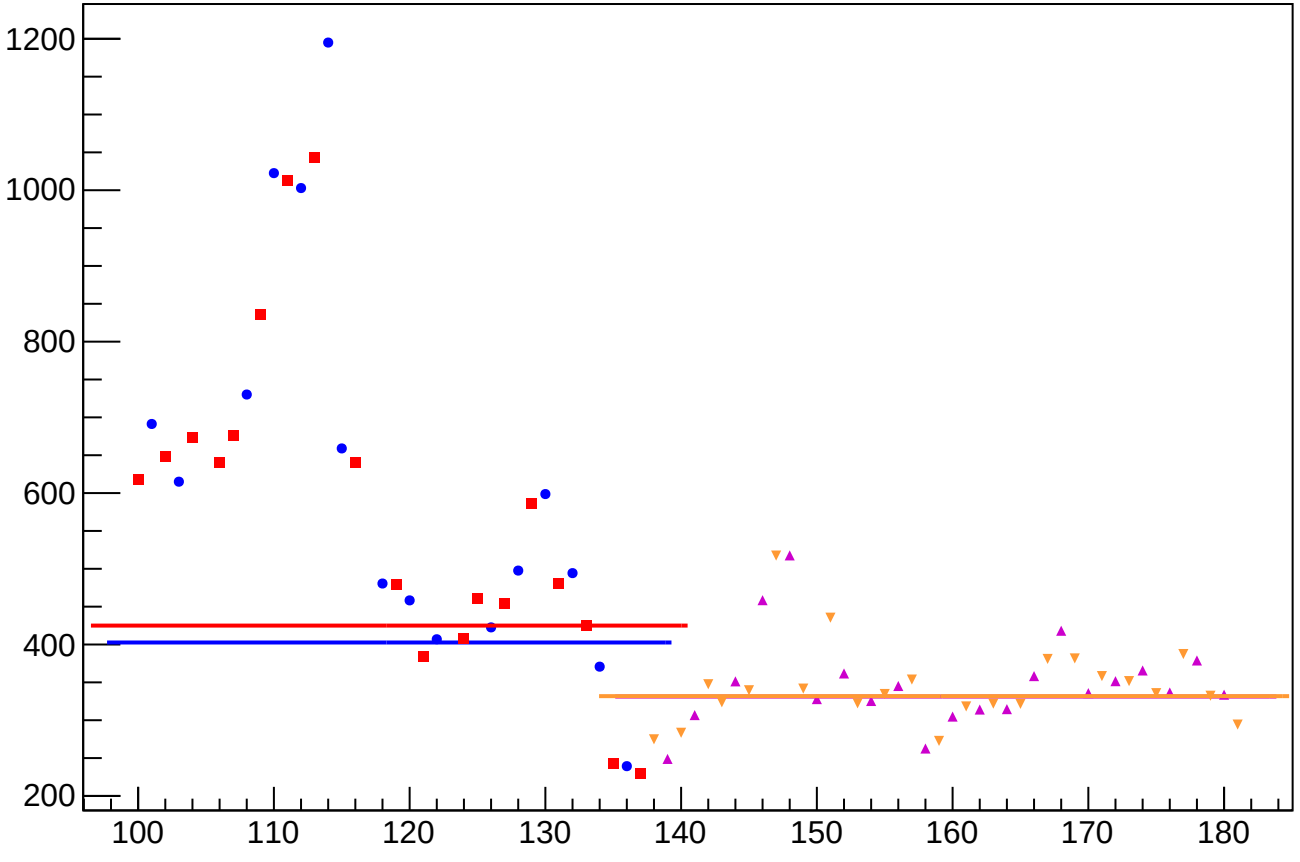
Right: -216.832+/-118.106 $\chi^2$/NDF: 26.5/34

In: -38.030+/-72.597 $\chi^2$/NDF:45.0/36

Out: -12.013+/-71.276 $\chi^2$/NDF:39.7/41

All: -24.783+/-50.860 $\chi^2$/NDF: 84.8/78

# asym_sam1_cor_correction_rms vs Slug, Sign Corrected




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360087.3/15

Left Out: 331.795+/-0.055 $\chi^2$/NDF:642485.1/22

Right Out: 424.988+/-0.121 $\chi^2$/NDF: 2341027.2/18

Left In: 331.256+/-0.057 $\chi^2$/NDF:830058.3/20

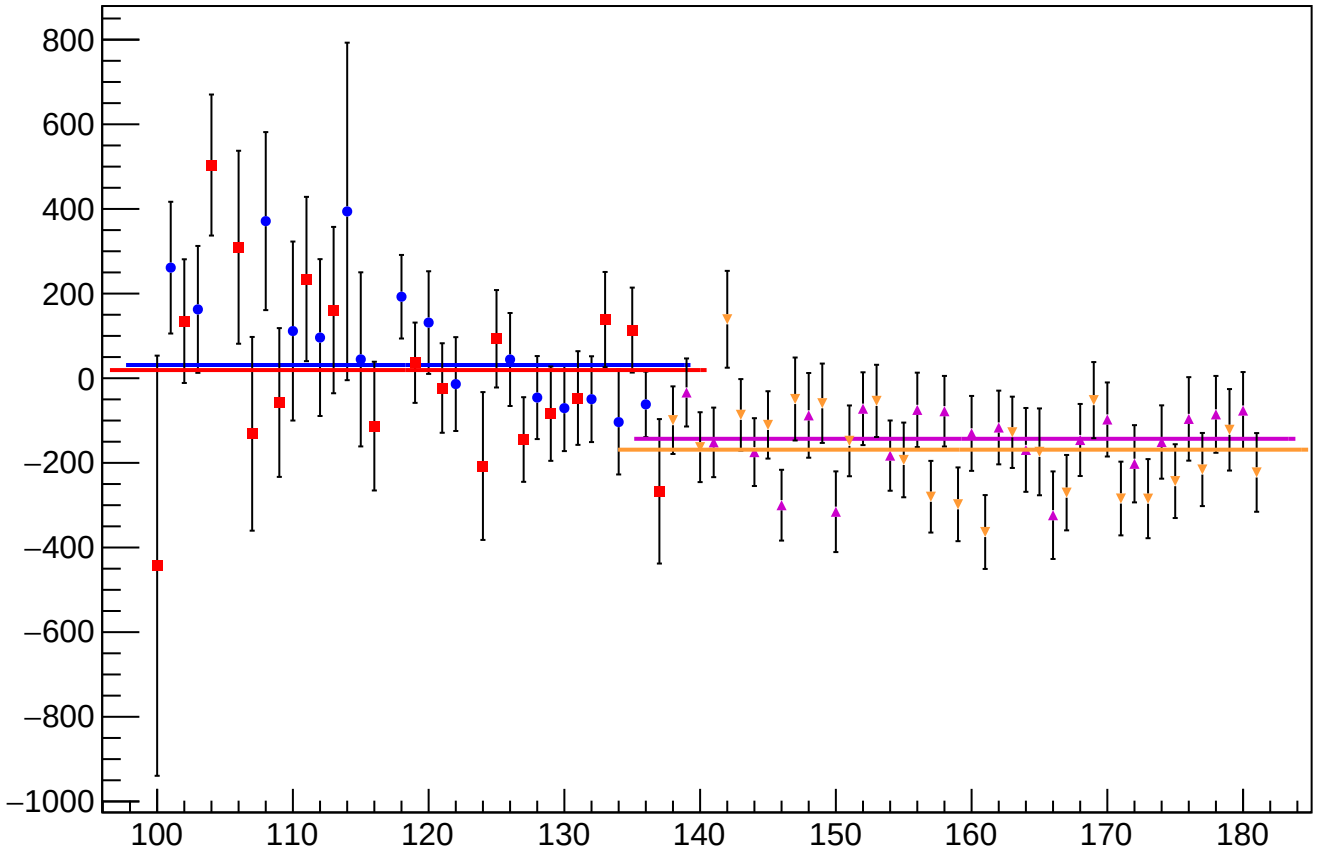
Left: 331.534+/-0.040 $\chi^2$/NDF: 1472589.0/43

Right: 413.374+/-0.084 $\chi^2$/NDF: 4718958.6/34

In: 345.288+/-0.051 $\chi^2$/NDF:3495626.4/36

Out: 348.083+/-0.050 $\chi^2$/NDF:3476640.5/41

All: 346.711+/-0.036 $\chi^2$/NDF: 6973776.3/78




Right In: 31.260+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -168.818+/-18.481 $\chi^2$/NDF:31.3/22

Right Out: 19.282+/-31.060 $\chi^2$/NDF: 25.7/18

Left In: -143.139+/-19.295 $\chi^2$/NDF:16.3/20

Left: -156.532+/-13.347 $\chi^2$/NDF: 48.6/43

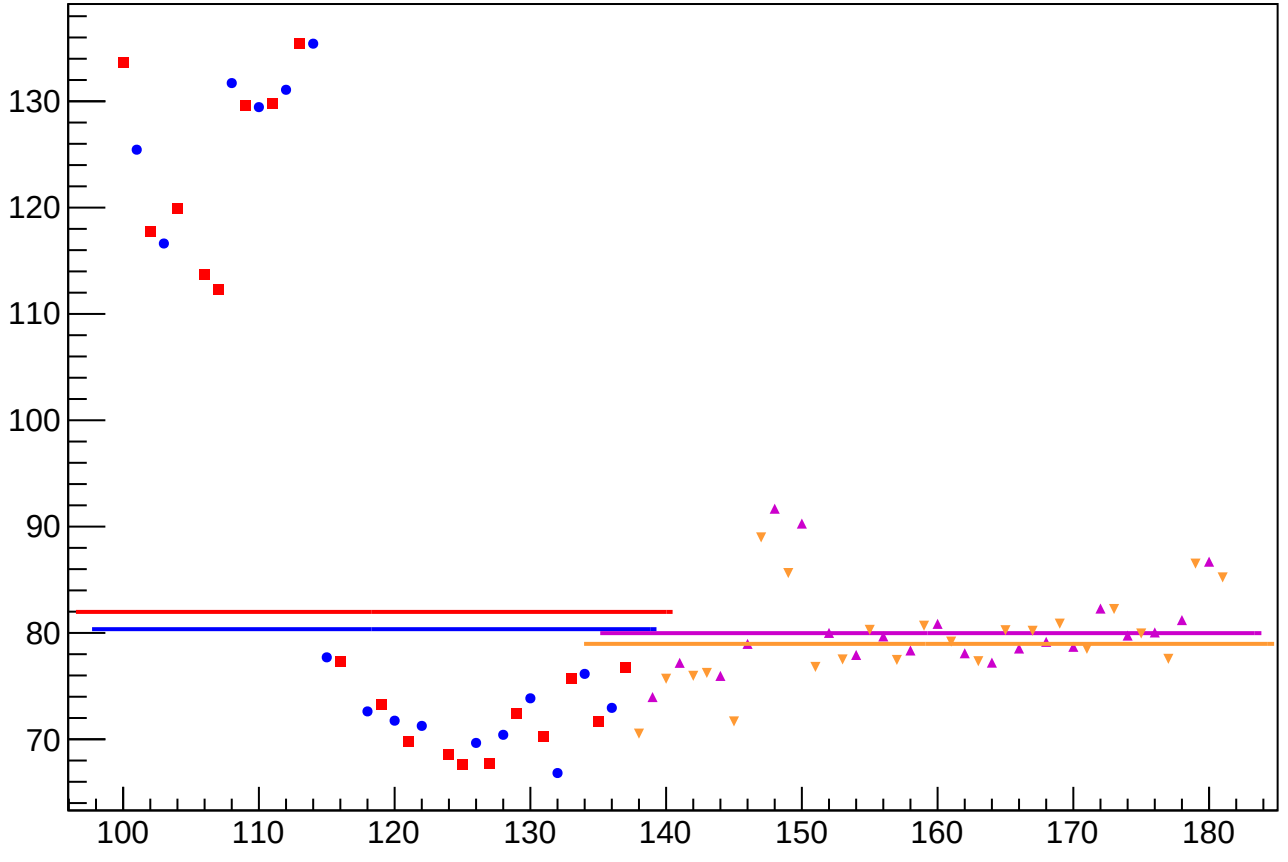
Right: 25.324+/-21.865 $\chi^2$/NDF: 40.9/34

In: -93.954+/-16.349 $\chi^2$/NDF:54.5/36

Out: -119.635+/-15.882 $\chi^2$/NDF:84.1/41

All: -107.167+/-11.392 $\chi^2$/NDF: 139.9/78

# eigen_cor_asym_sam1_rms vs Slug, Sign Corrected




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.7/15

Left Out: 78.972+/-0.013 $\chi^2$/NDF:107498.6/22

Right Out: 81.978+/-0.022 $\chi^2$/NDF: 930466.5/18

Left In: 79.980+/-0.014 $\chi^2$/NDF:87800.8/20

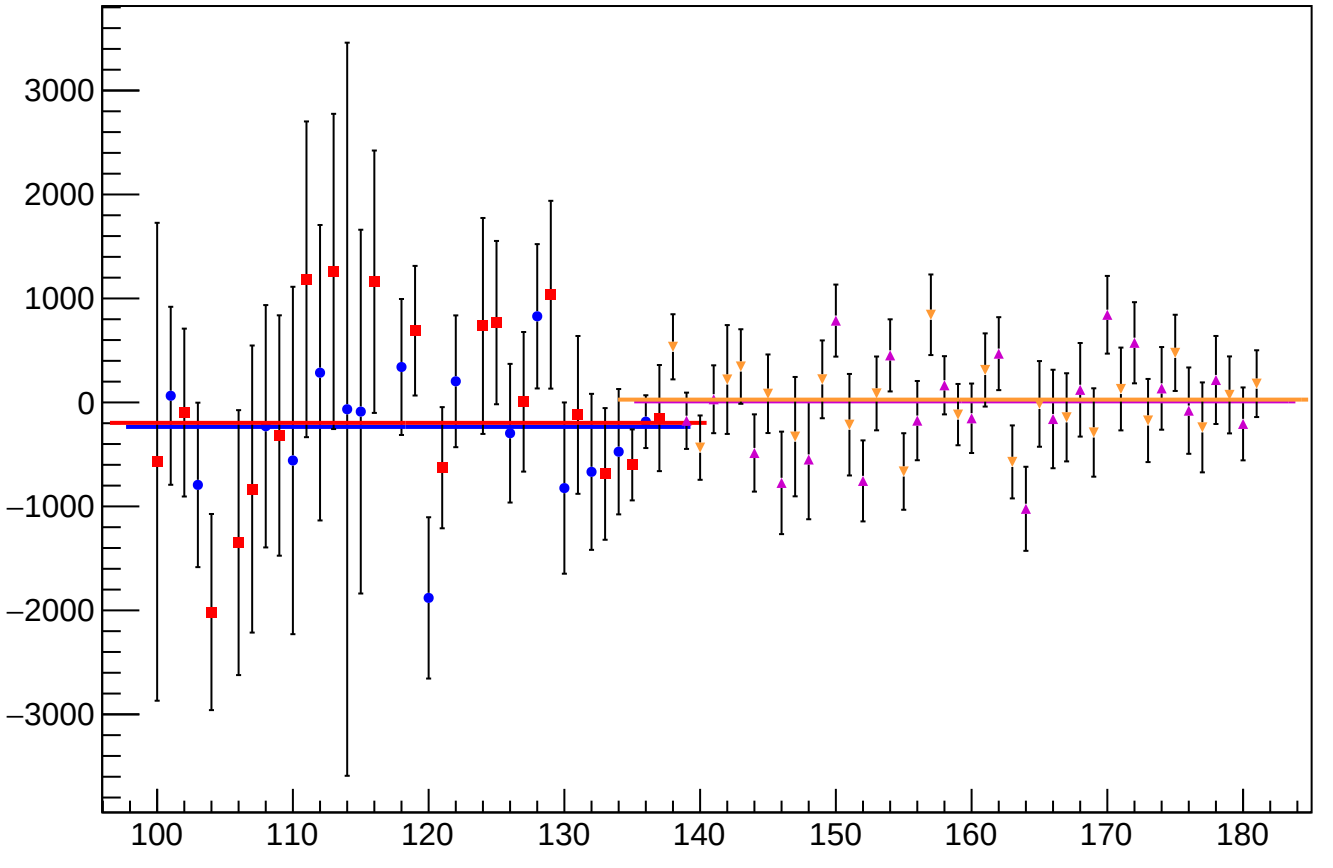
Left: 79.455+/-0.009 $\chi^2$/NDF: 198145.2/43

Right: 81.159+/-0.015 $\chi^2$/NDF: 1773264.0/34

In: 80.086+/-0.012 $\chi^2$/NDF:928052.2/36

Out: 79.758+/-0.011 $\chi^2$/NDF:1051796.2/41

All: 79.917+/-0.008 $\chi^2$/NDF: 1980261.0/78




Right In: -235.519+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 27.075+/-78.461 $\chi^2$/NDF:21.7/22

Right Out: -196.579+/-170.492 $\chi^2$/NDF: 16.6/18

Left In: 10.271+/-80.990 $\chi^2$/NDF:33.3/20

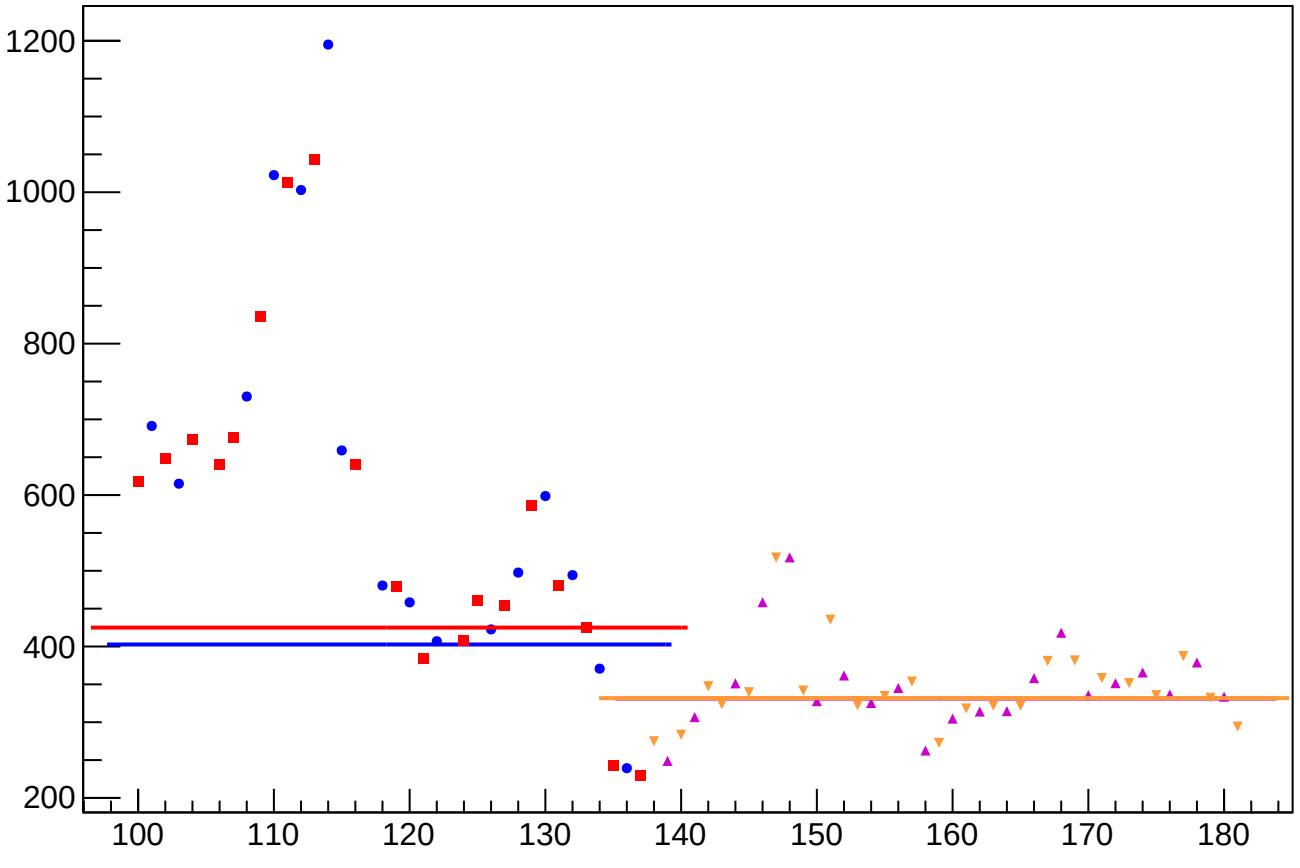
Left: 18.939+/-56.353 $\chi^2$/NDF: 55.0/43

Right: -216.832+/-118.106 $\chi^2$/NDF: 26.5/34

In: -38.030+/-72.597 $\chi^2$/NDF:45.0/36

Out: -12.013+/-71.276 $\chi^2$/NDF:39.7/41

All: -24.783+/-50.860 $\chi^2$/NDF: 84.8/78




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360087.3/15

Left Out: 331.795+/-0.055 $\chi^2$/NDF:642485.1/22

Right Out: 424.988+/-0.121 $\chi^2$/NDF: 2341027.2/18

Left In: 331.256+/-0.057 $\chi^2$/NDF:830058.3/20

Left: 331.534+/-0.040 $\chi^2$/NDF: 1472589.0/43

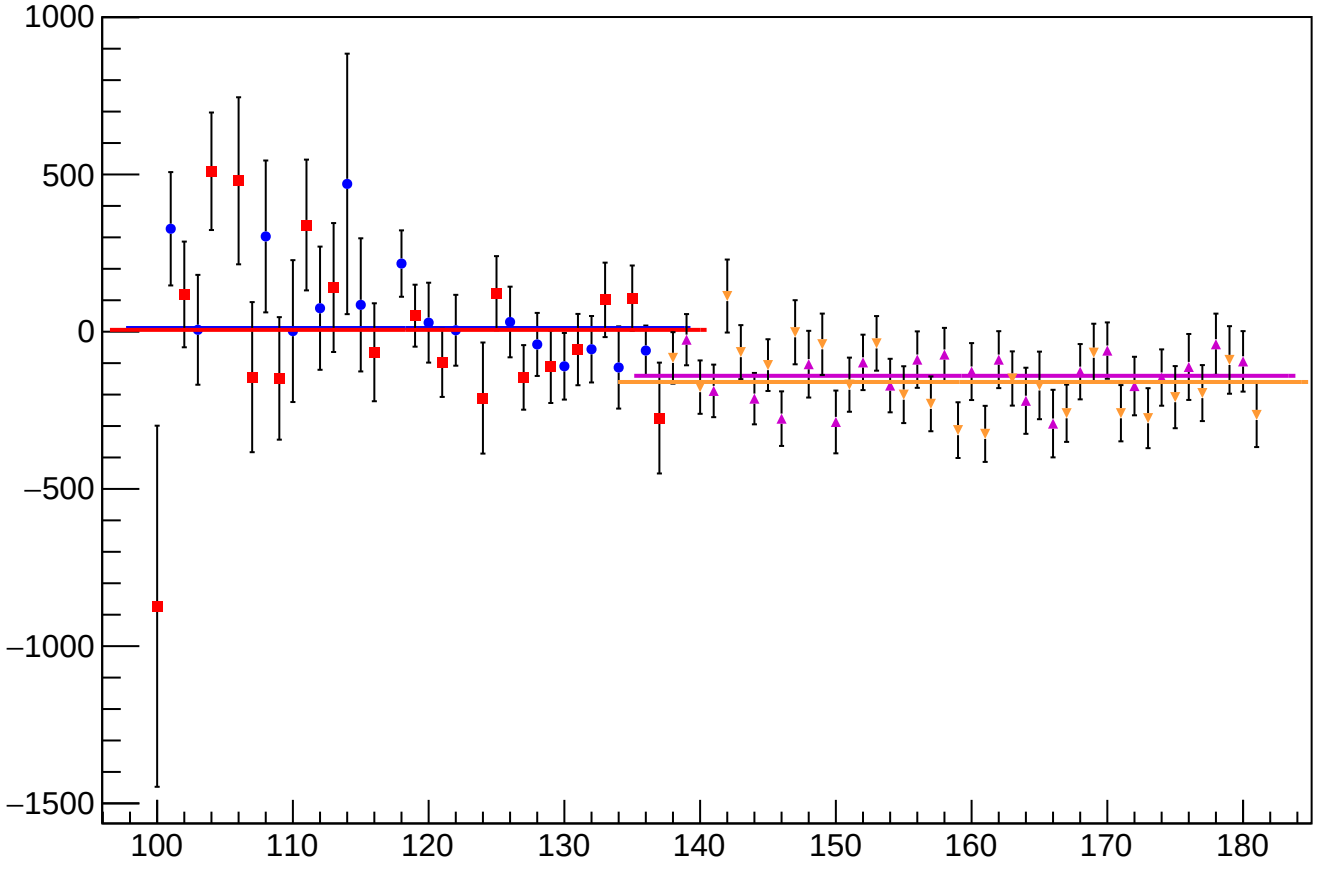
Right: 413.374+/-0.084 $\chi^2$/NDF: 4718958.6/34

In: 345.288+/-0.051 $\chi^2$/NDF:3495626.4/36

Out: 348.083+/-0.050 $\chi^2$/NDF:3476640.5/41

All: 346.711+/-0.036 $\chi^2$/NDF: 6973776.3/78

# dit_asym_sam1_mean vs Slug, Sign Corrected




Right In: 11.651+/-32.297 $\chi^2$/NDF: 13.5/15

Left Out: -159.943+/-19.151 $\chi^2$/NDF:28.1/22

Right Out: 5.817+/-32.444 $\chi^2$/NDF: 28.8/18

Left In: -140.281+/-19.939 $\chi^2$/NDF:14.4/20

Left: -150.509+/-13.812 $\chi^2$/NDF: 43.0/43

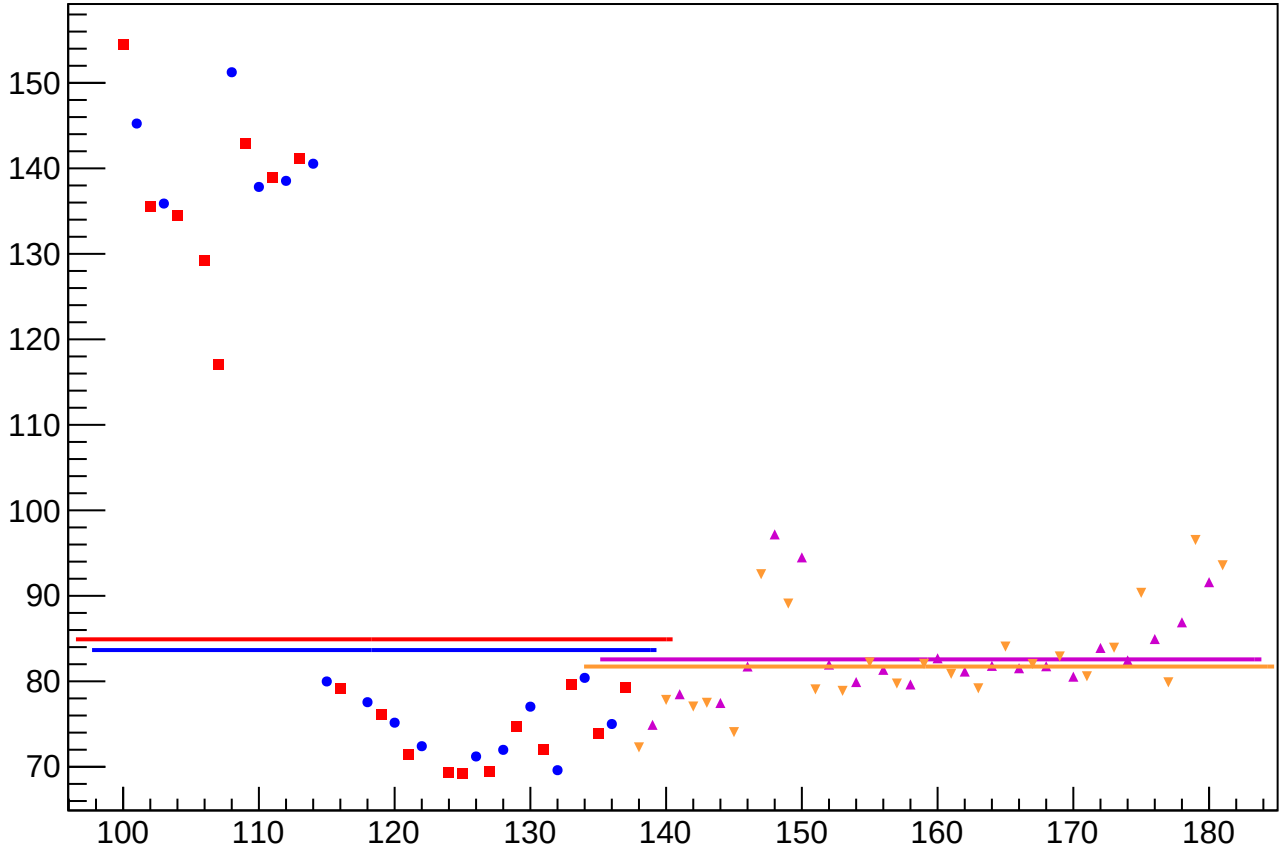
Right: 8.747+/-22.889 $\chi^2$/NDF: 42.3/34

In: -98.354+/-16.966 $\chi^2$/NDF:44.0/36

Out: -117.112+/-16.492 $\chi^2$/NDF:76.2/41

All: -107.999+/-11.826 $\chi^2$/NDF: 120.8/78

# dit_asym_sam1_rms vs Slug, Sign Corrected




Right In: 83.657+/-0.023 $\chi^2$/NDF: 1034794.6/15

Left Out: 81.728+/-0.014 $\chi^2$/NDF:181054.9/22

Right Out: 84.913+/-0.023 $\chi^2$/NDF: 1121669.5/18

Left In: 82.567+/-0.014 $\chi^2$/NDF:126760.5/20

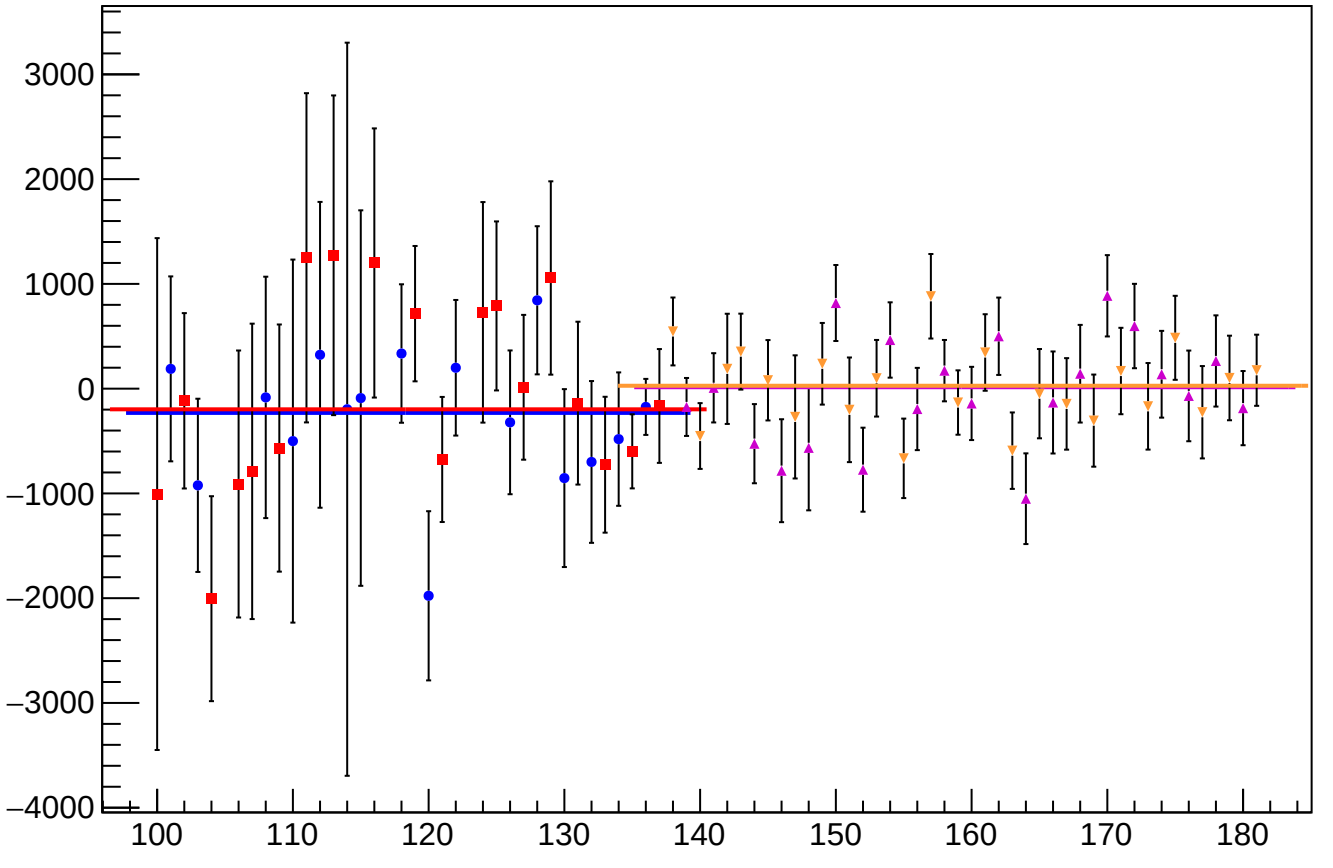
Left: 82.131+/-0.010 $\chi^2$/NDF: 309656.3/43

Right: 84.282+/-0.016 $\chi^2$/NDF: 2157969.4/34

In: 82.868+/-0.012 $\chi^2$/NDF:1163204.1/36

Out: 82.551+/-0.012 $\chi^2$/NDF:1317014.8/41

All: 82.705+/-0.008 $\chi^2$/NDF: 2480577.1/78




Right In: -231.407+/-170.133 $\chi^2$/NDF: 10.4/15

Left Out: 27.728+/-81.330 $\chi^2$/NDF:21.3/22

Right Out: -197.206+/-176.091 $\chi^2$/NDF: 15.9/18

Left In: 13.605+/-83.690 $\chi^2$/NDF:33.1/20

Left: 20.869+/-58.325 $\chi^2$/NDF: 54.4/43

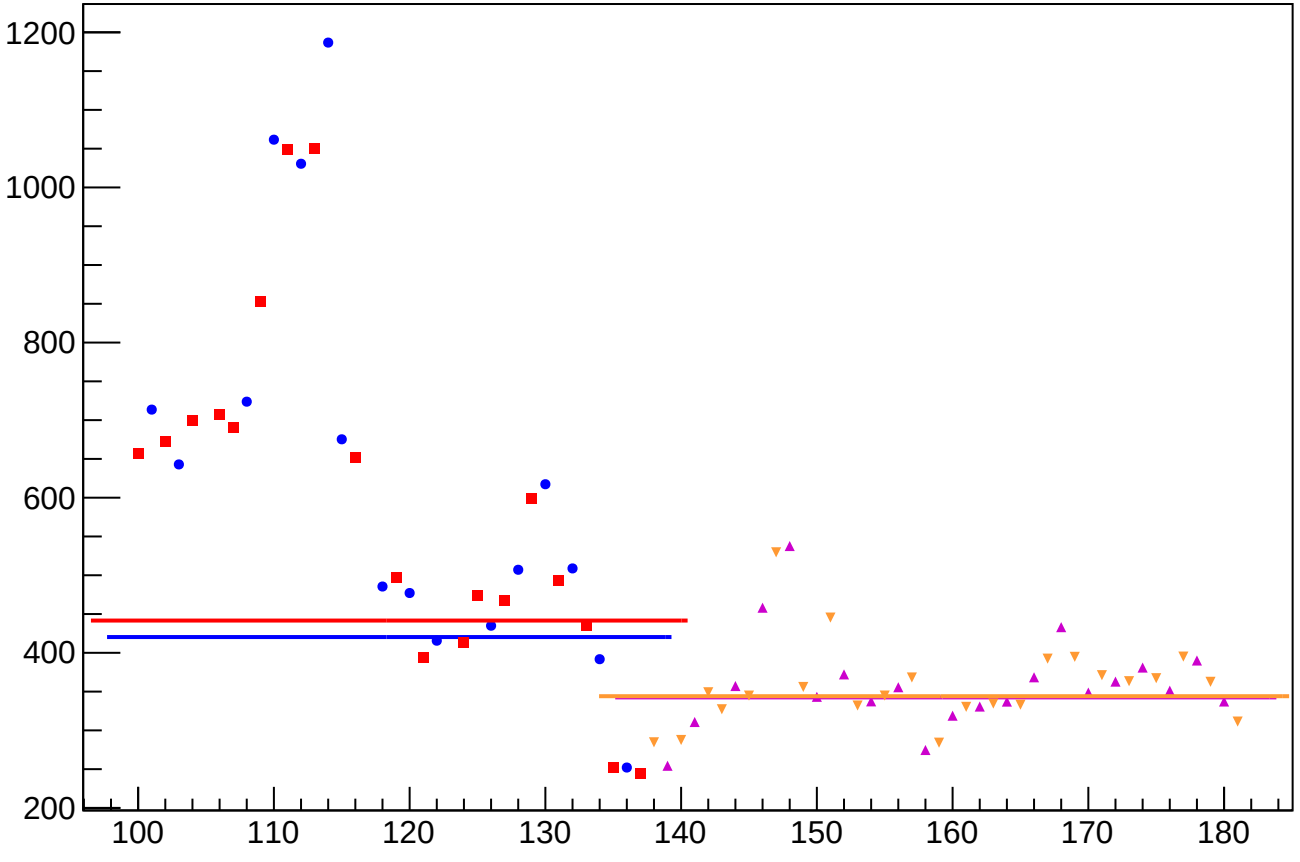
Right: -214.895+/-122.354 $\chi^2$/NDF: 26.3/34

In: -34.131+/-75.096 $\chi^2$/NDF:45.1/36

Out: -11.818+/-73.835 $\chi^2$/NDF:38.5/41

All: -22.785+/-52.649 $\chi^2$/NDF: 83.7/78

# asym_sam1_dit_correction_rms vs Slug, Sign Corrected




Right In: 420.329+/-0.120 $\chi^2$/NDF: 2254610.0/15

Left Out: 344.059+/-0.058 $\chi^2$/NDF:631420.3/22

Right Out: 441.598+/-0.125 $\chi^2$/NDF: 2307588.5/18

Left In: 342.517+/-0.059 $\chi^2$/NDF:810625.5/20

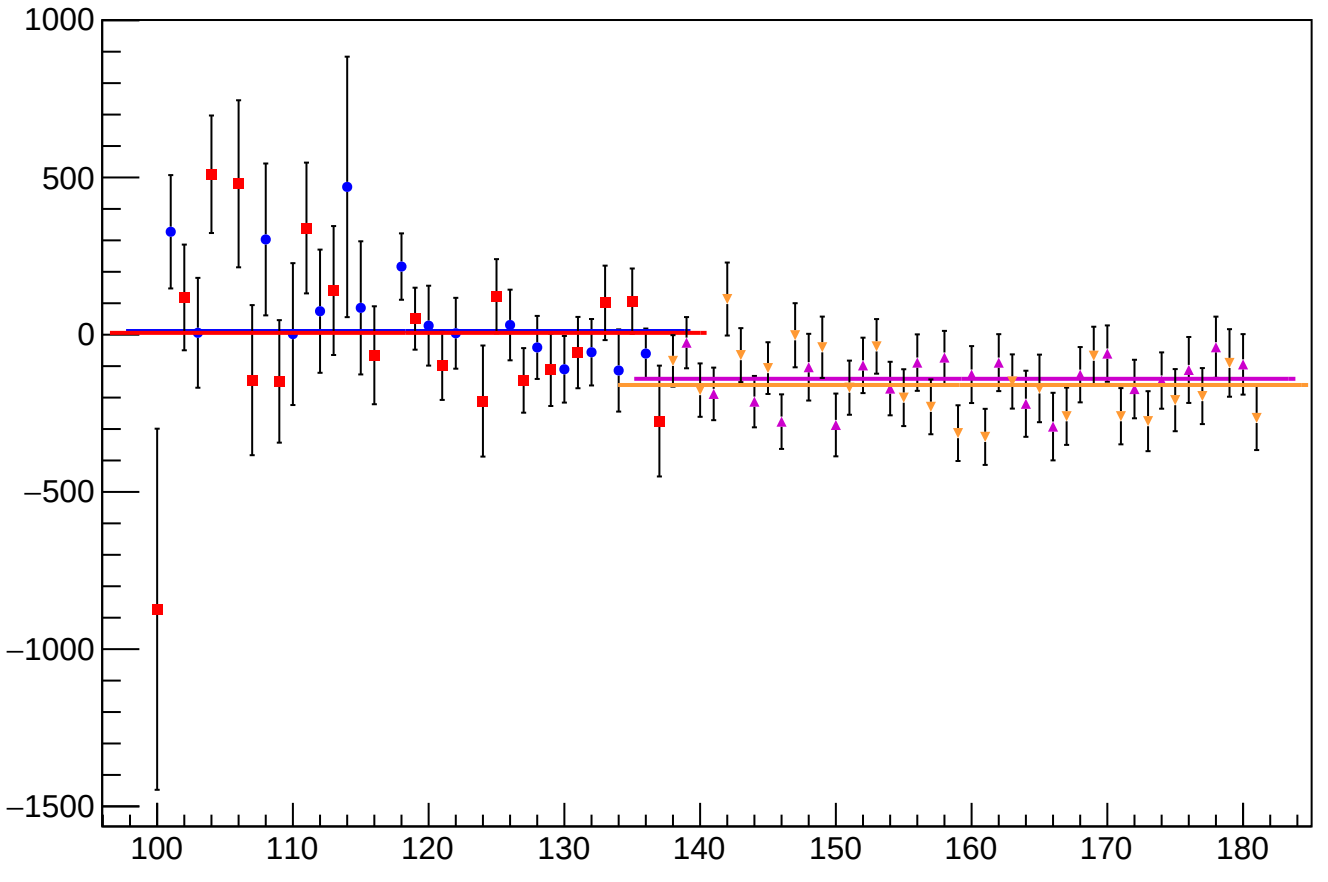
Left: 343.310+/-0.041 $\chi^2$/NDF: 1442395.0/43

Right: 430.598+/-0.087 $\chi^2$/NDF: 4577288.4/34

In: 357.677+/-0.053 $\chi^2$/NDF:3402090.1/36

Out: 361.207+/-0.052 $\chi^2$/NDF:3444762.2/41

All: 359.472+/-0.037 $\chi^2$/NDF: 6849099.5/78




Right In: 11.652+/-32.297 $\chi^2$/NDF: 13.5/15

Left Out: -159.943+/-19.151 $\chi^2$/NDF:28.1/22

Right Out: 5.816+/-32.444 $\chi^2$/NDF: 28.8/18

Left In: -140.282+/-19.939 $\chi^2$/NDF:14.4/20

Left: -150.509+/-13.812 $\chi^2$/NDF: 43.0/43

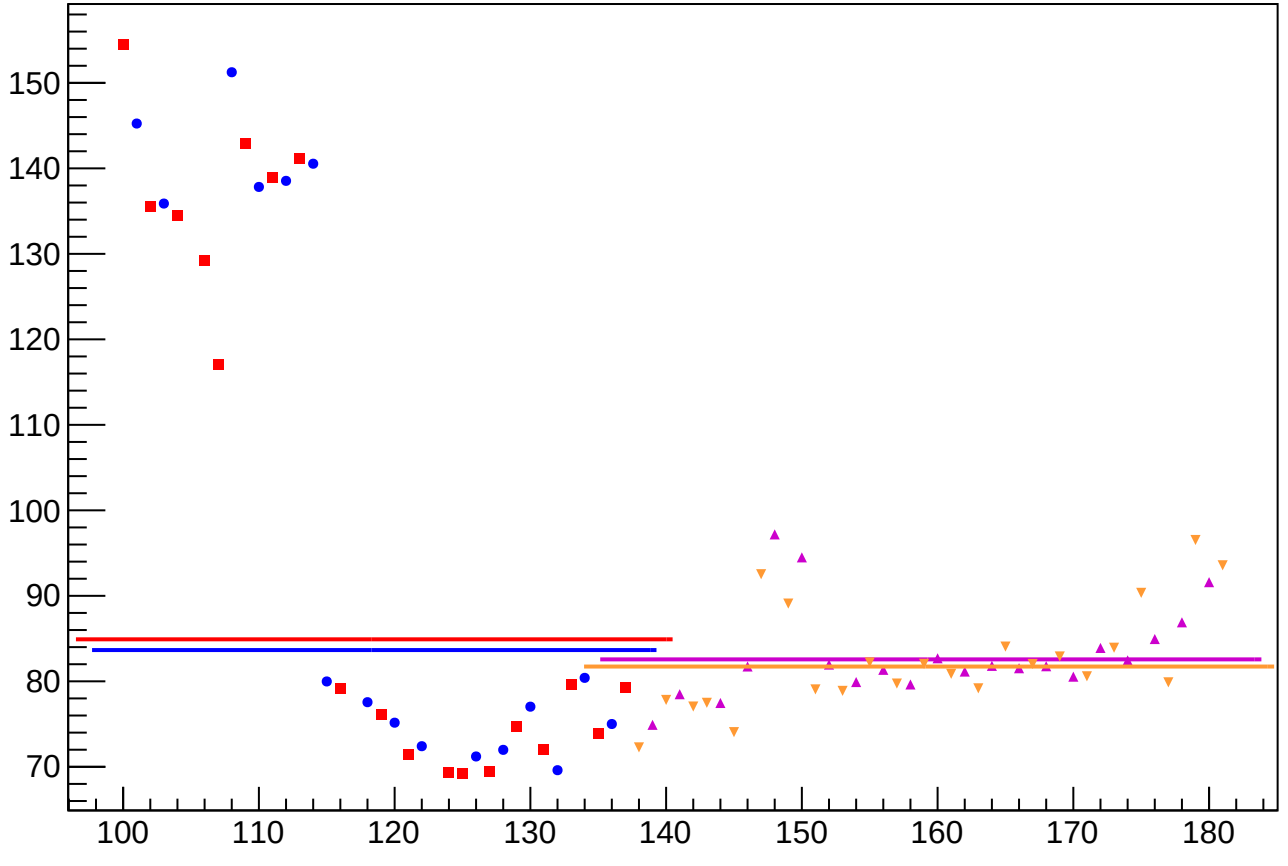
Right: 8.747+/-22.889 $\chi^2$/NDF: 42.3/34

In: -98.354+/-16.966 $\chi^2$/NDF:44.0/36

Out: -117.112+/-16.492 $\chi^2$/NDF:76.2/41

All: -107.999+/-11.826 $\chi^2$/NDF: 120.8/78

# eigen_dit_asym_sam1_rms vs Slug, Sign Corrected




Right In: 83.657+/-0.023 $\chi^2$/NDF: 1034794.1/15

Left Out: 81.728+/-0.014 $\chi^2$/NDF:181055.0/22

Right Out: 84.913+/-0.023 $\chi^2$/NDF: 1121668.5/18

Left In: 82.567+/-0.014 $\chi^2$/NDF:126759.0/20

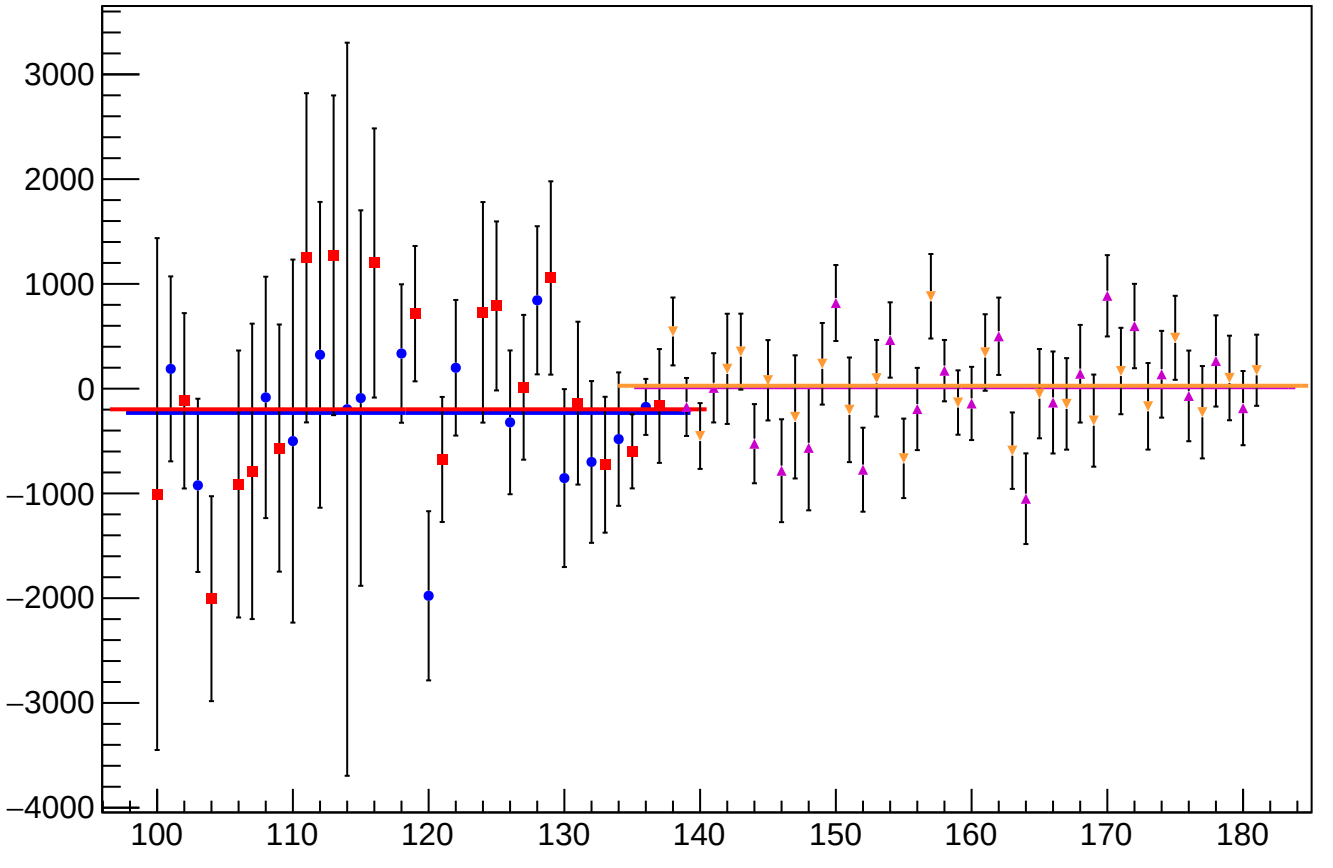
Left: 82.131+/-0.010 $\chi^2$/NDF: 309654.9/43

Right: 84.282+/-0.016 $\chi^2$/NDF: 2157967.8/34

In: 82.868+/-0.012 $\chi^2$/NDF:1163202.0/36

Out: 82.551+/-0.012 $\chi^2$/NDF:1317013.4/41

All: 82.705+/-0.008 $\chi^2$/NDF: 2480573.6/78




Right In: -231.405+/-170.132 $\chi^2$/NDF: 10.4/15

Left Out: 27.729+/-81.330 $\chi^2$/NDF:21.3/22

Right Out: -197.207+/-176.091 $\chi^2$/NDF: 15.9/18

Left In: 13.605+/-83.690 $\chi^2$/NDF:33.1/20

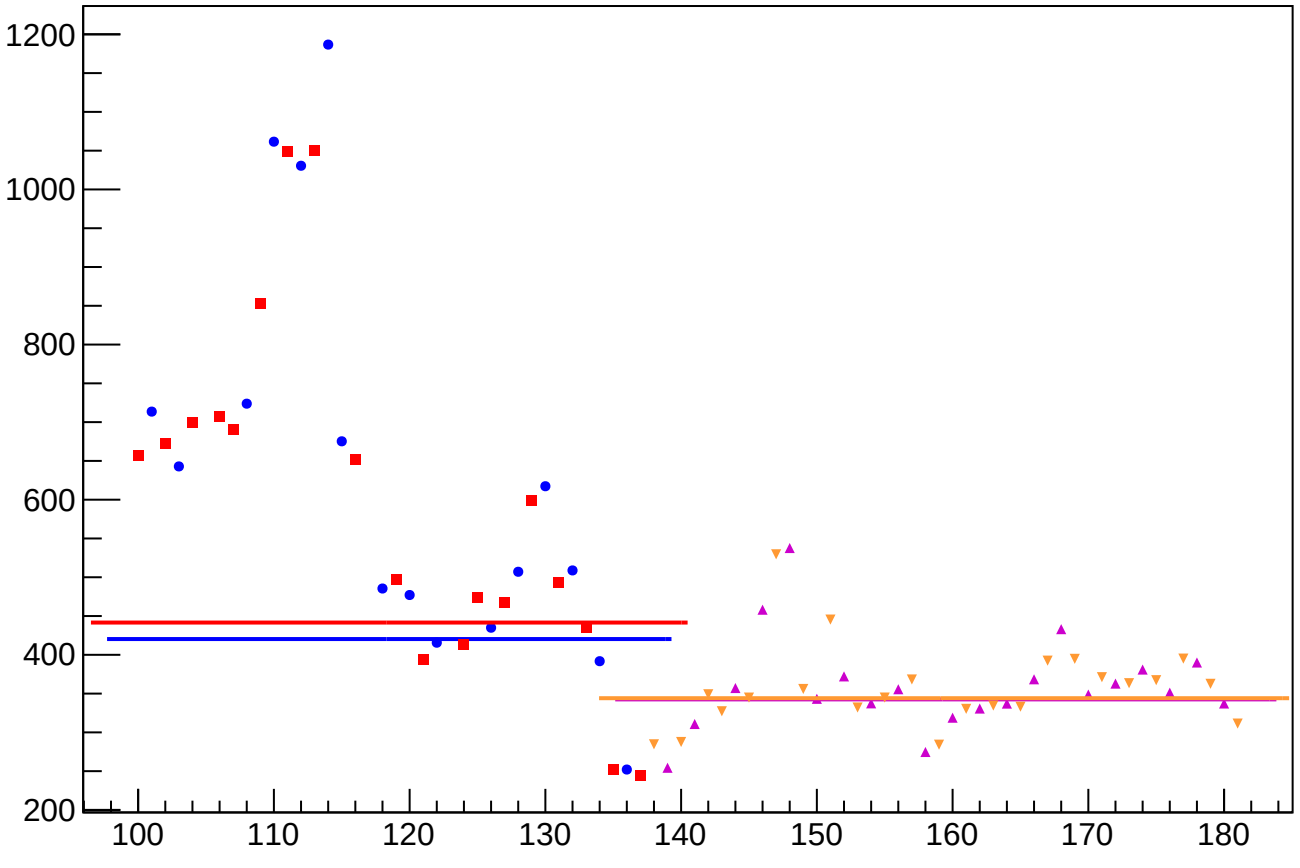
Left: 20.869+/-58.325 $\chi^2$/NDF: 54.4/43

Right: -214.894+/-122.354 $\chi^2$/NDF: 26.3/34

In: -34.131+/-75.096 $\chi^2$/NDF:45.1/36

Out: -11.818+/-73.835 $\chi^2$/NDF:38.5/41

All: -22.785+/-52.649 $\chi^2$/NDF: 83.7/78




Right In: 420.329+/-0.120 $\chi^2$/NDF: 2254614.9/15

Left Out: 344.058+/-0.058 $\chi^2$/NDF:631422.1/22

Right Out: 441.597+/-0.125 $\chi^2$/NDF: 2307595.1/18

Left In: 342.516+/-0.059 $\chi^2$/NDF:810628.4/20

Left: 343.309+/-0.041 $\chi^2$/NDF: 1442399.6/43

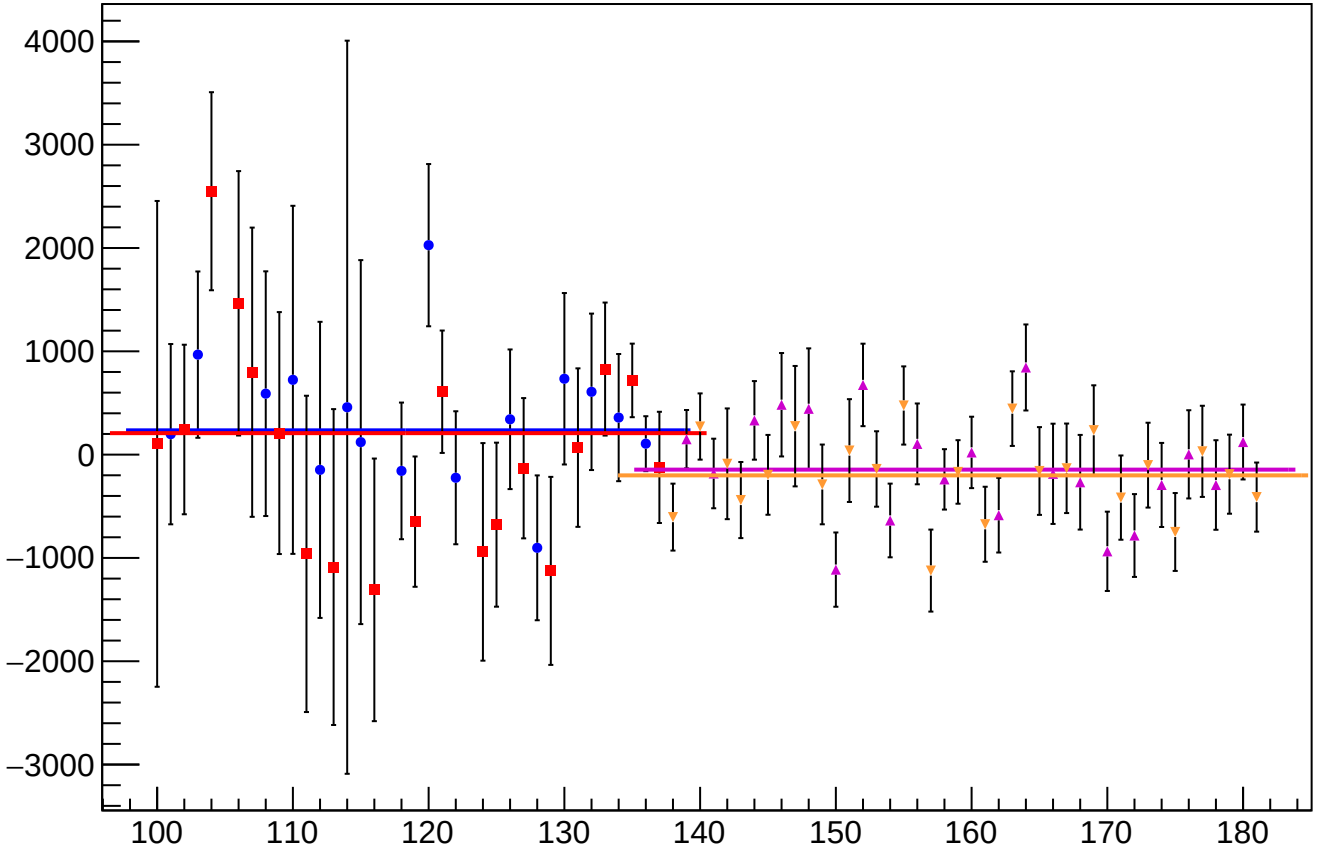
Right: 430.597+/-0.087 $\chi^2$/NDF: 4577299.7/34

In: 357.677+/-0.053 $\chi^2$/NDF:3402093.7/36

Out: 361.207+/-0.052 $\chi^2$/NDF:3444764.1/41

All: 359.472+/-0.037 $\chi^2$/NDF: 6849105.1/78

# asym_sam1_mean vs Slug, Sign Corrected




Right In: 235.054+/-168.199 $\chi^2$/NDF: 10.7/15

Left Out: -200.840+/-80.791 $\chi^2$/NDF:22.8/22

Right Out: 207.936+/-174.716 $\chi^2$/NDF: 20.4/18

Left In: -145.256+/-83.463 $\chi^2$/NDF:34.3/20

Left: -173.952+/-58.050 $\chi^2$/NDF: 57.3/43

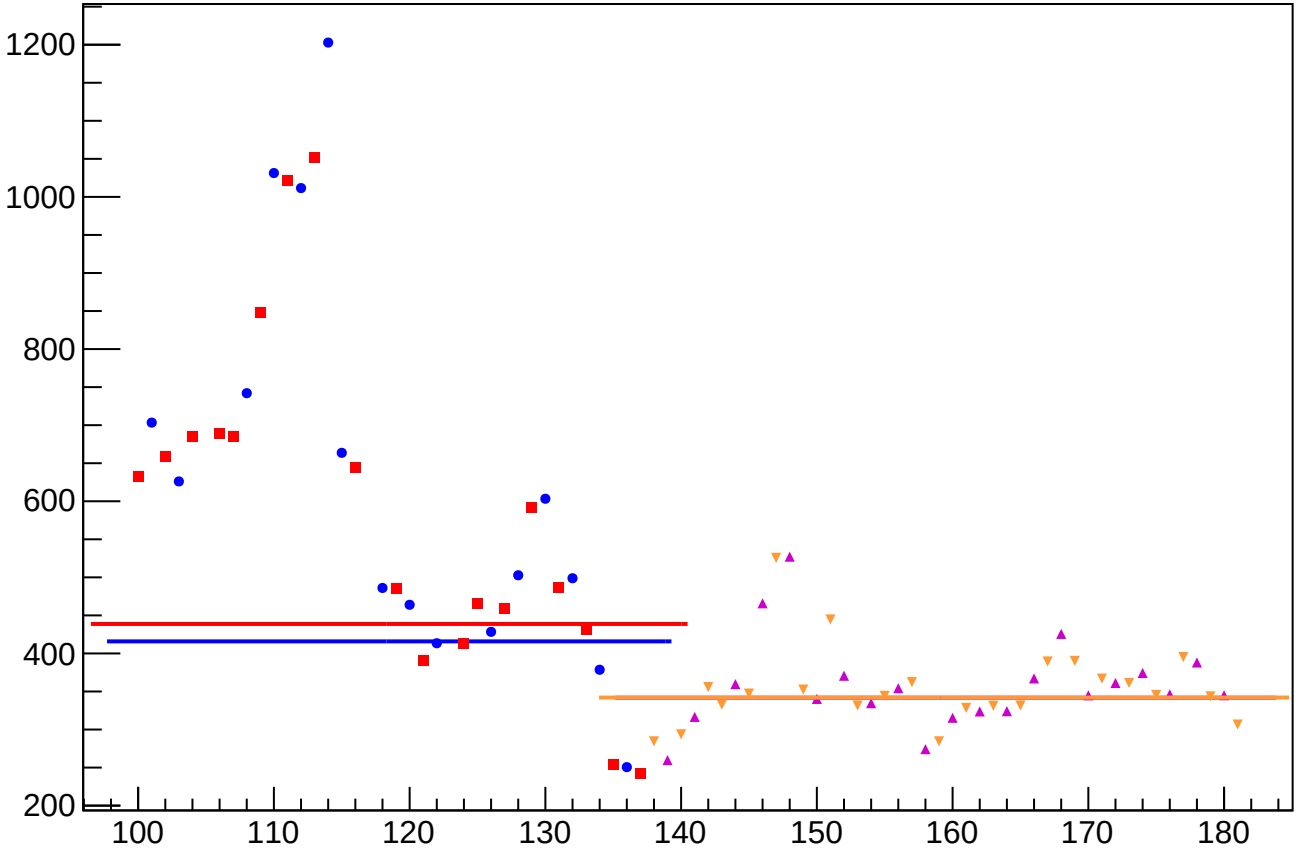
Right: 222.010+/-121.173 $\chi^2$/NDF: 31.1/34

In: -70.114+/-74.765 $\chi^2$/NDF:49.1/36

Out: -128.830+/-73.331 $\chi^2$/NDF:47.7/41

All: -100.040+/-52.352 $\chi^2$/NDF: 97.1/78

# asym_sam1_rms vs Slug, Sign Corrected




Right In: 415.840+/-0.119 $\chi^2$/NDF: 2223949.6/15

Left Out: 341.996+/-0.057 $\chi^2$/NDF:591603.3/22

Right Out: 438.773+/-0.124 $\chi^2$/NDF: 2234776.6/18

Left In: 341.796+/-0.059 $\chi^2$/NDF:761782.1/20

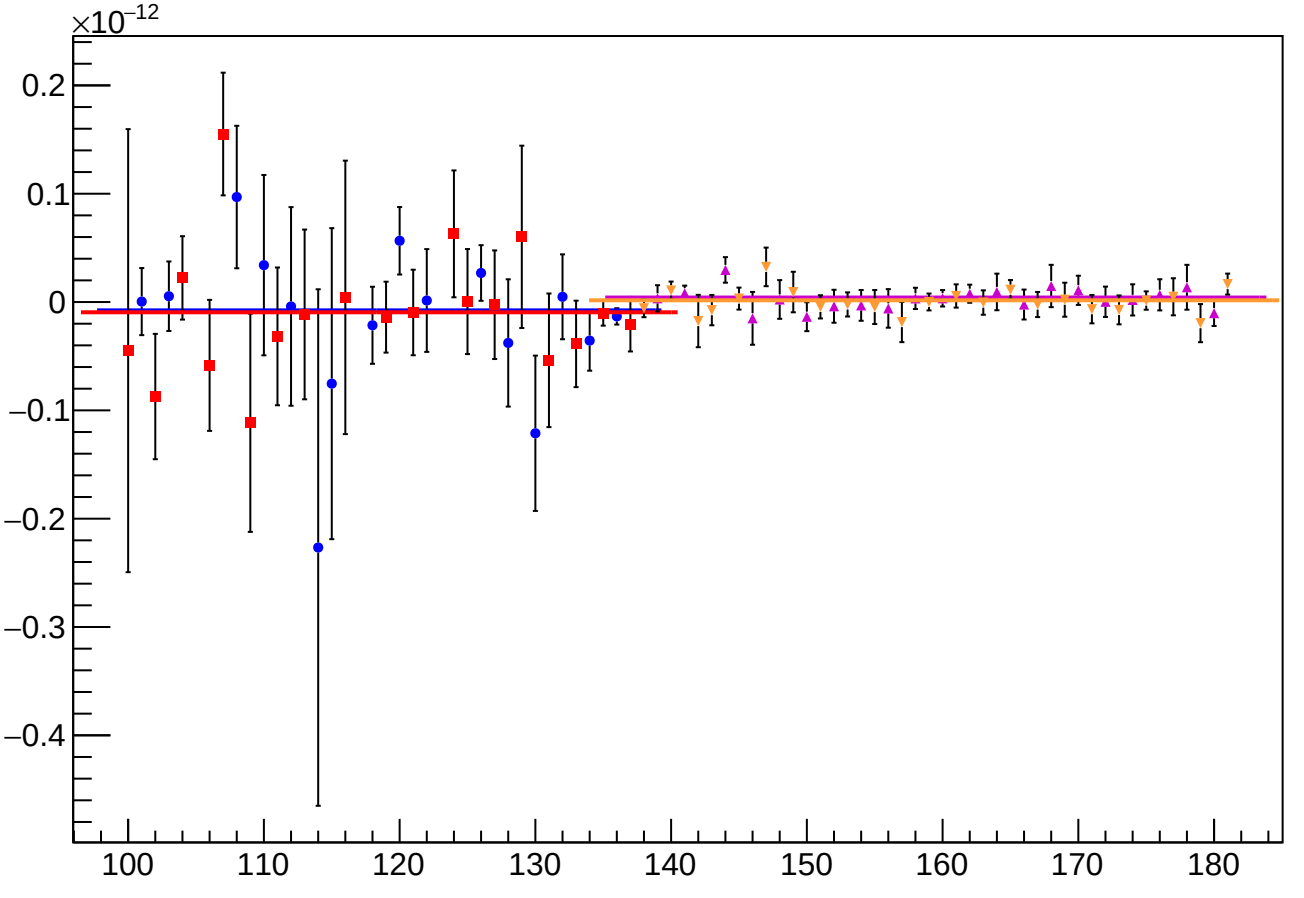
Left: 341.899+/-0.041 $\chi^2$/NDF: 1353391.4/43

Right: 426.871+/-0.086 $\chi^2$/NDF: 4476610.3/34

In: 356.425+/-0.053 $\chi^2$/NDF:3296734.7/36

Out: 359.044+/-0.052 $\chi^2$/NDF:3331914.3/41

All: 357.760+/-0.037 $\chi^2$/NDF: 6629900.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:11.1/20

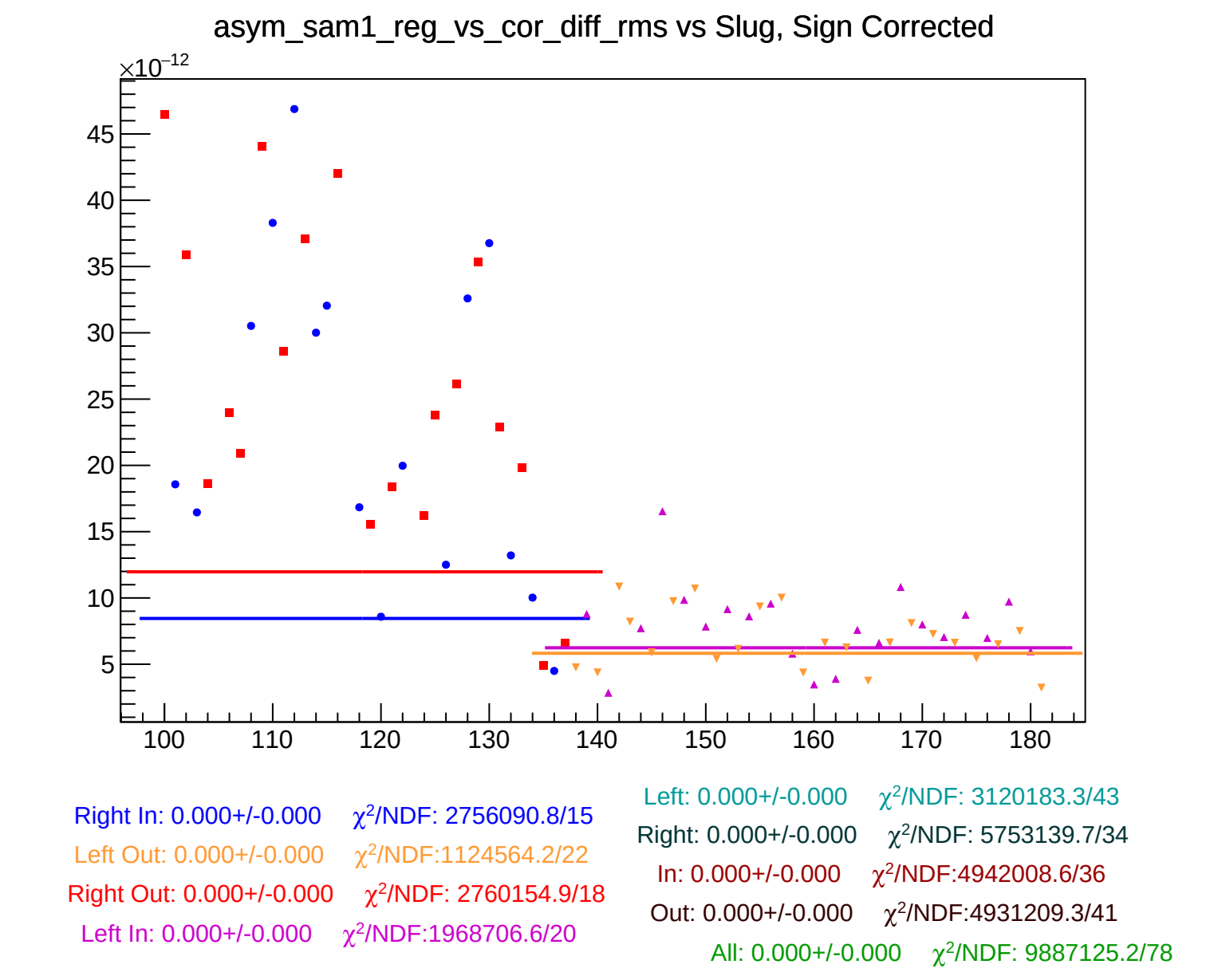
Left: 0.000+/-0.000 $\chi^2$/NDF: 25.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:29.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:32.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 61.4/78


asym_sam1_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
45
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15
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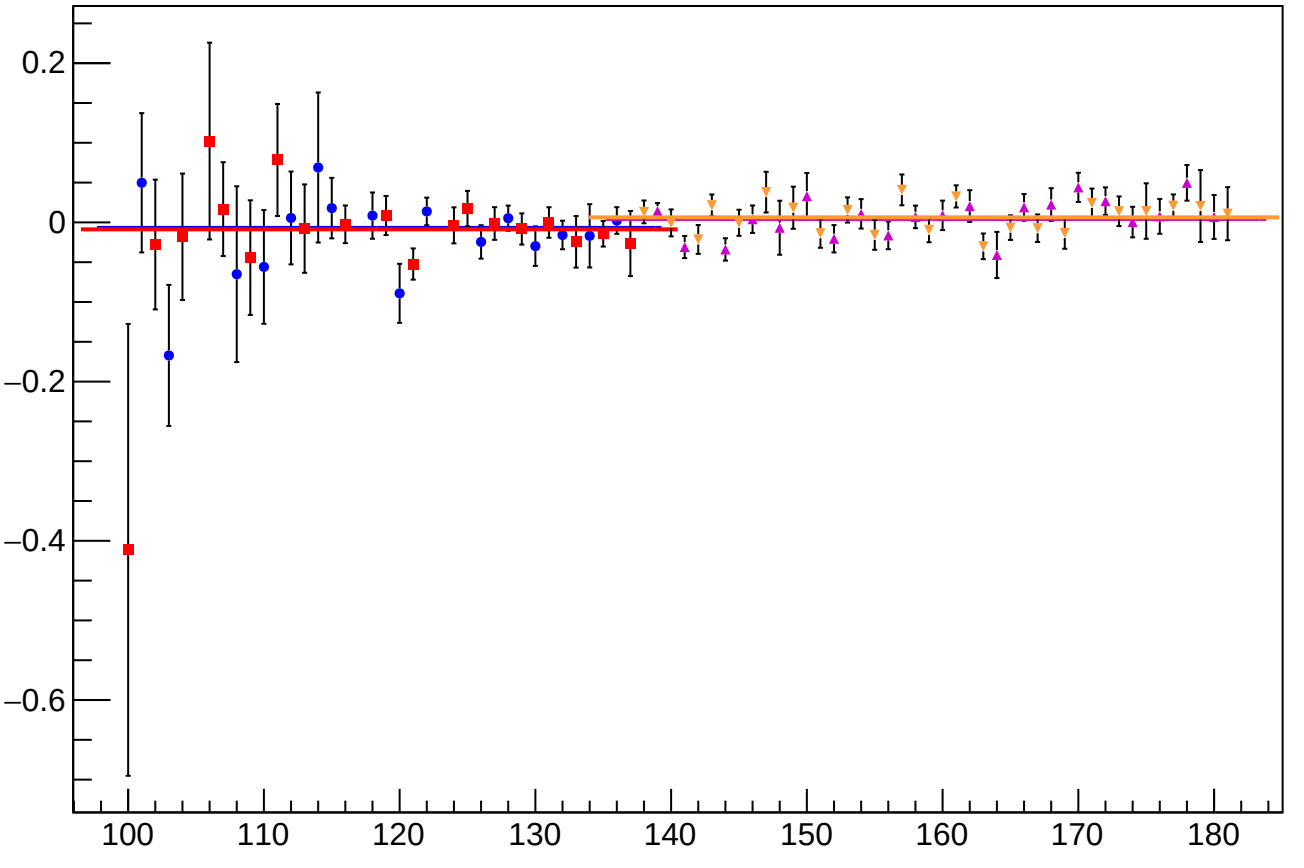
5
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2756090.8/15
Left Out: 0.000+/-0.000 χ²/NDF:1124564.2/22
Right Out: 0.000+/-0.000 χ²/NDF: 2760154.9/18
Left In: 0.000+/-0.000 χ²/NDF:1968706.6/20
Left: 0.000+/-0.000 χ²/NDF: 3120183.3/43
Right: 0.000+/-0.000 χ²/NDF: 5753139.7/34
In: 0.000+/-0.000 χ²/NDF:4942008.6/36
Out: 0.000+/-0.000 χ²/NDF:4931209.3/41
All: 0.000+/-0.000 χ²/NDF: 9887125.2/78




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.006+/-0.004 $\chi^2$/NDF:26.4/22

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: 0.004+/-0.004 $\chi^2$/NDF:34.8/20

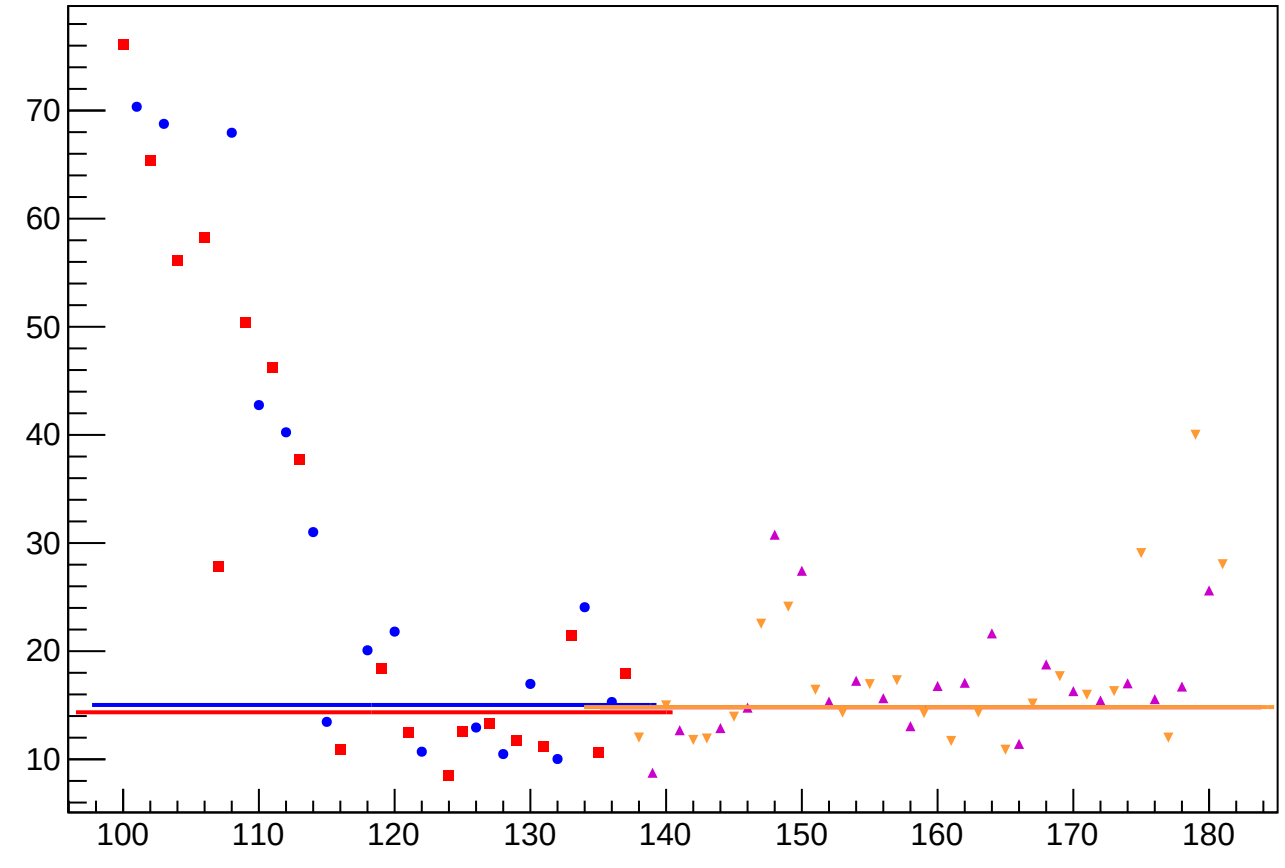
Left: 0.005+/-0.003 $\chi^2$/NDF: 61.3/43

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: 0.002+/-0.003 $\chi^2$/NDF:51.9/36

Out: 0.003+/-0.003 $\chi^2$/NDF:43.2/41

All: 0.002+/-0.002 $\chi^2$/NDF: 95.1/78




Right In: 15.026+/-0.005 $\chi^2$/NDF: 3438260.9/15

Left Out: 14.830+/-0.003 $\chi^2$/NDF:2380766.0/22

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629014.9/18

Left In: 14.811+/-0.003 $\chi^2$/NDF:2384266.0/20

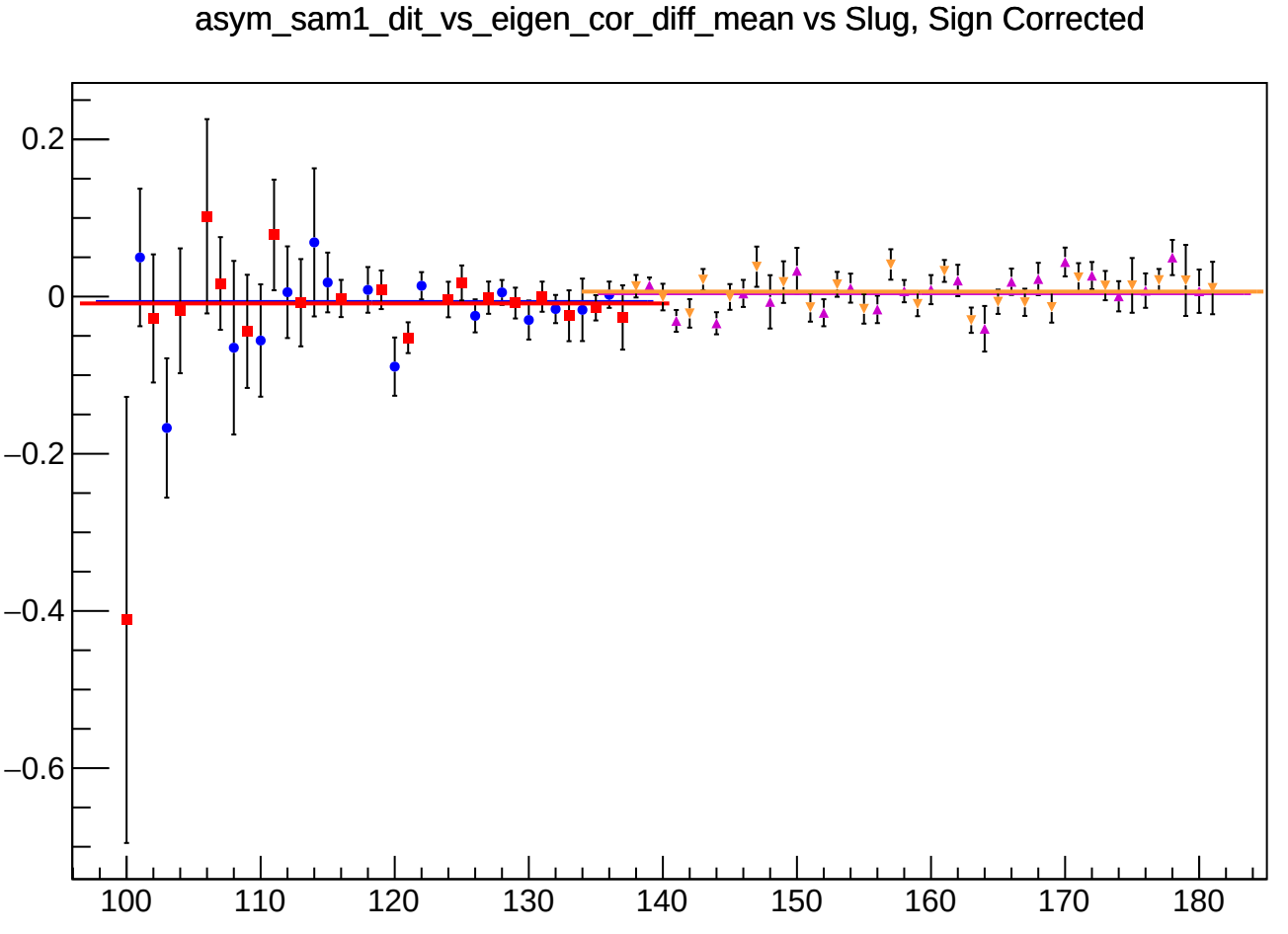
Left: 14.821+/-0.002 $\chi^2$/NDF: 4765056.2/43

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077933.0/34

In: 14.864+/-0.002 $\chi^2$/NDF:5824052.9/36

Out: 14.708+/-0.002 $\chi^2$/NDF:6018277.7/41

All: 14.783+/-0.002 $\chi^2$/NDF: 11844600.5/78




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.006+/-0.004 $\chi^2$/NDF:26.4/22

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: 0.004+/-0.004 $\chi^2$/NDF:34.8/20

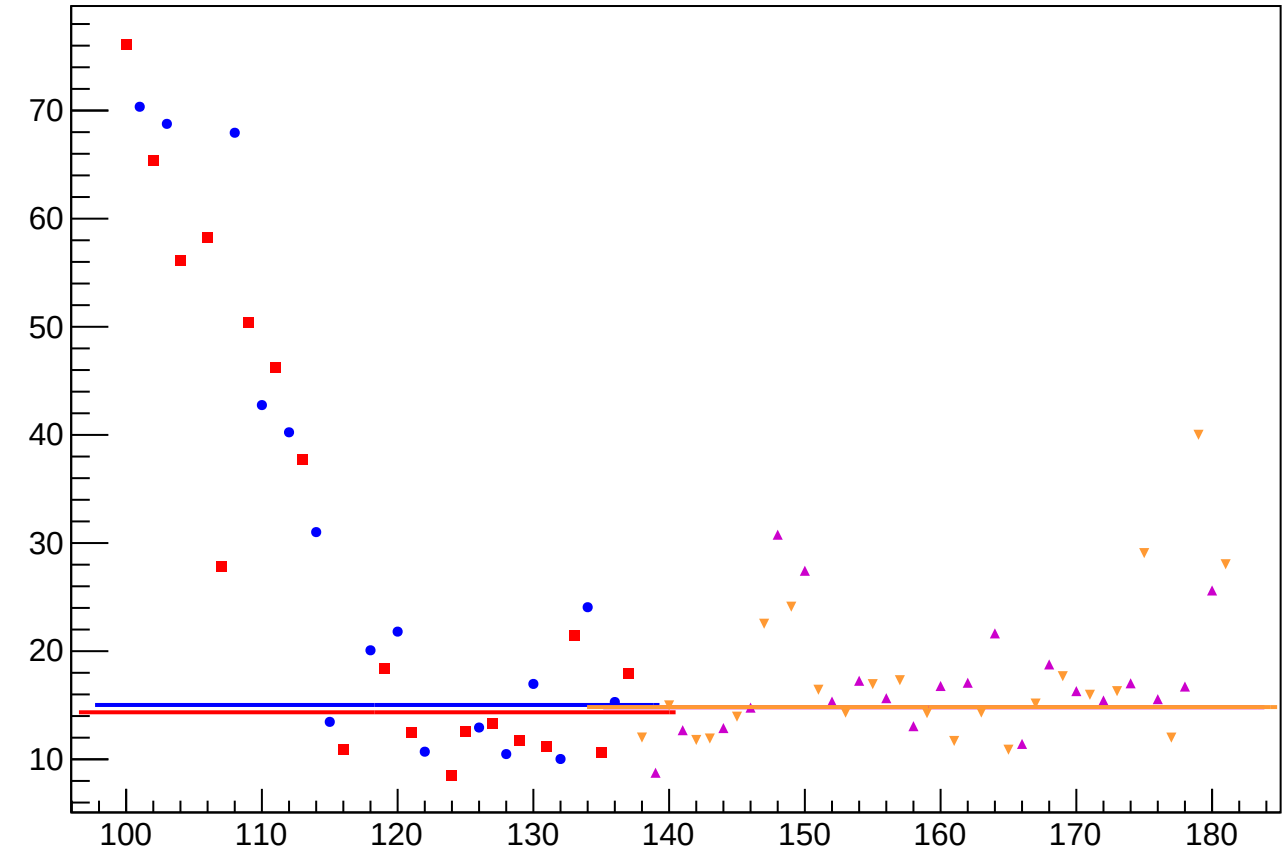
Left: 0.005+/-0.003 $\chi^2$/NDF: 61.3/43

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: 0.002+/-0.003 $\chi^2$/NDF:51.9/36

Out: 0.003+/-0.003 $\chi^2$/NDF:43.2/41

All: 0.002+/-0.002 $\chi^2$/NDF: 95.1/78




Right In: 15.026+/-0.005 $\chi^2$/NDF: 3438260.9/15

Left Out: 14.830+/-0.003 $\chi^2$/NDF:2380766.0/22

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629014.9/18

Left In: 14.811+/-0.003 $\chi^2$/NDF:2384266.0/20

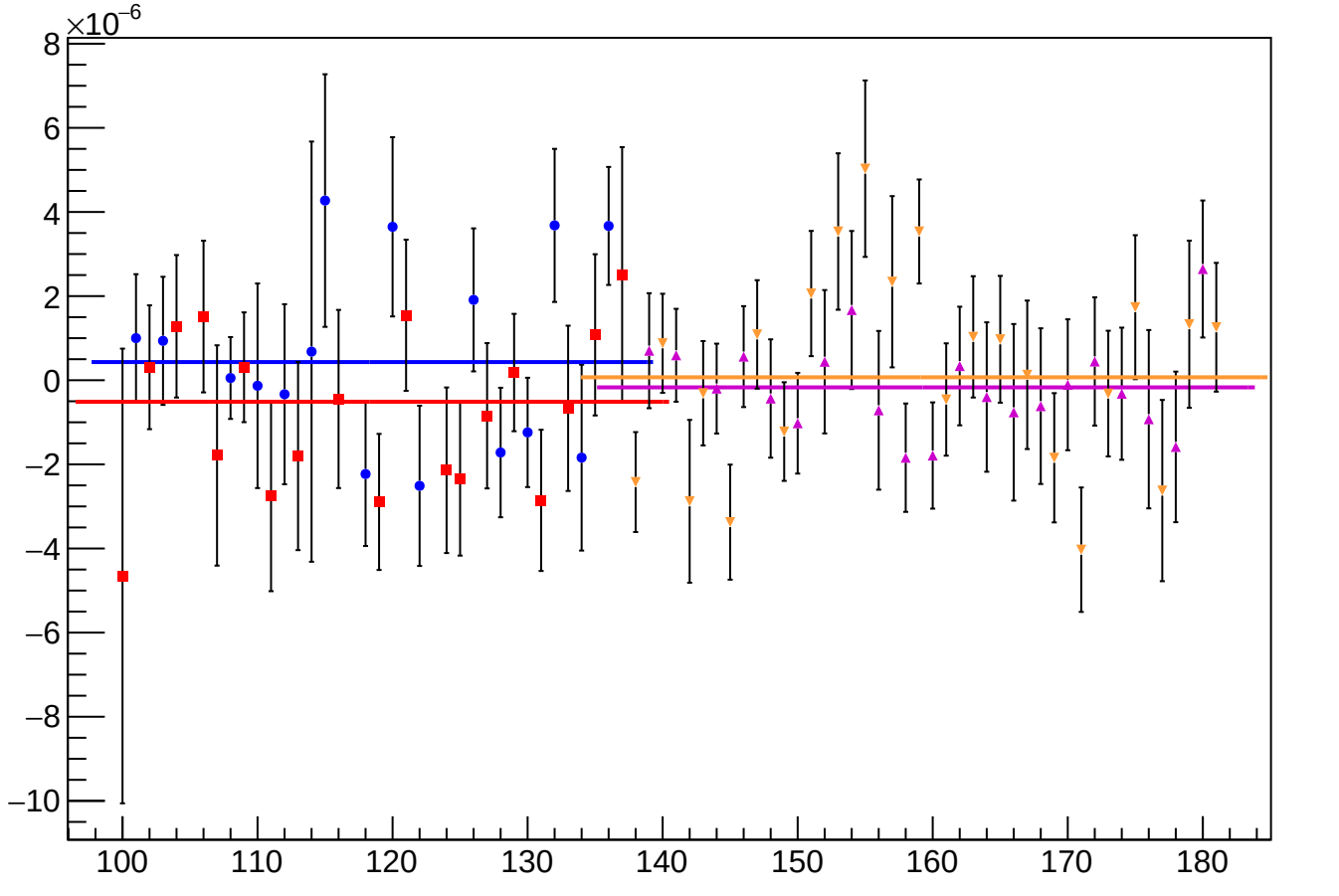
Left: 14.821+/-0.002 $\chi^2$/NDF: 4765056.2/43

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077933.0/34

In: 14.864+/-0.002 $\chi^2$/NDF:5824052.9/36

Out: 14.708+/-0.002 $\chi^2$/NDF:6018277.7/41

All: 14.783+/-0.002 $\chi^2$/NDF: 11844600.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:49.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:10.5/20

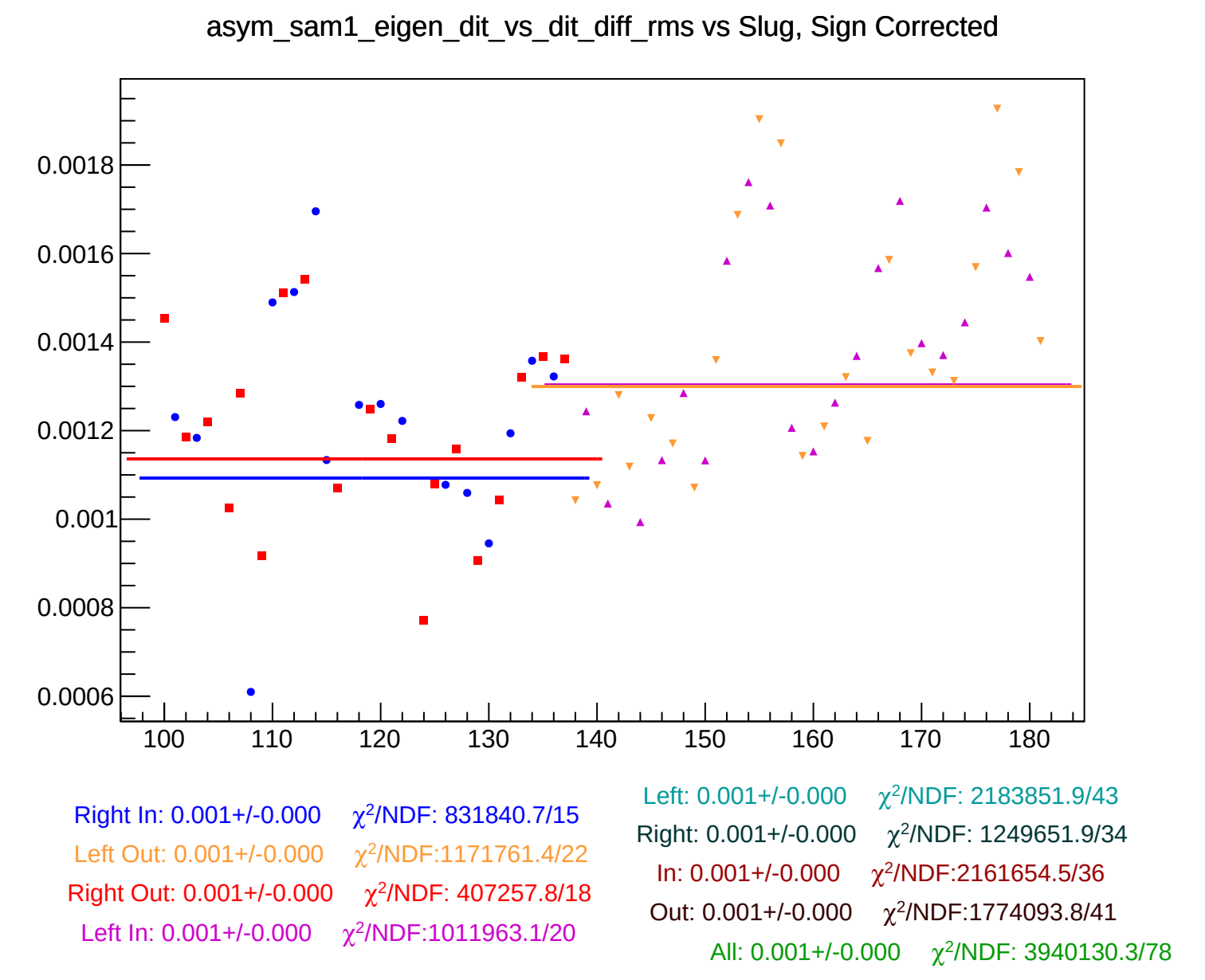
Left: -0.000+/-0.000 $\chi^2$/NDF: 60.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.0/34

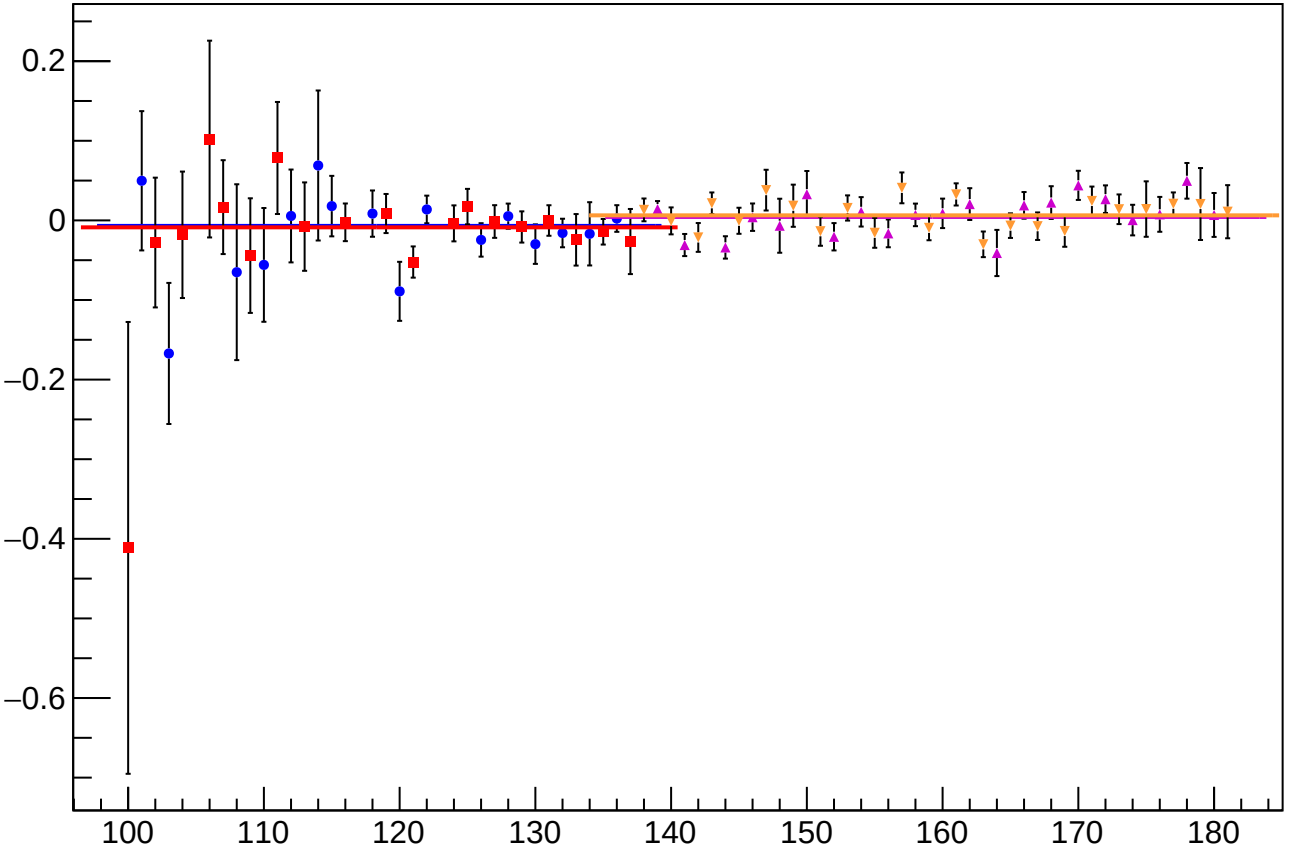
In: 0.000+/-0.000 $\chi^2$/NDF:35.0/36

Out: -0.000+/-0.000 $\chi^2$/NDF:64.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 100.0/78


asym_sam1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
100
110
120
130
140
150
160
170
180
Right In: 0.001+/-0.000 χ²/NDF: 831840.7/15
Left Out: 0.001+/-0.000 χ²/NDF:1171761.4/22
Right Out: 0.001+/-0.000 χ²/NDF: 407257.8/18
Left In: 0.001+/-0.000 χ²/NDF:1011963.1/20
Left: 0.001+/-0.000 χ²/NDF: 2183851.9/43
Right: 0.001+/-0.000 χ²/NDF: 1249651.9/34
In: 0.001+/-0.000 χ²/NDF:2161654.5/36
Out: 0.001+/-0.000 χ²/NDF:1774093.8/41
All: 0.001+/-0.000 χ²/NDF: 3940130.3/78

asym_sam1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.006+/-0.004 $\chi^2$/NDF:26.4/22

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: 0.004+/-0.004 $\chi^2$/NDF:34.8/20

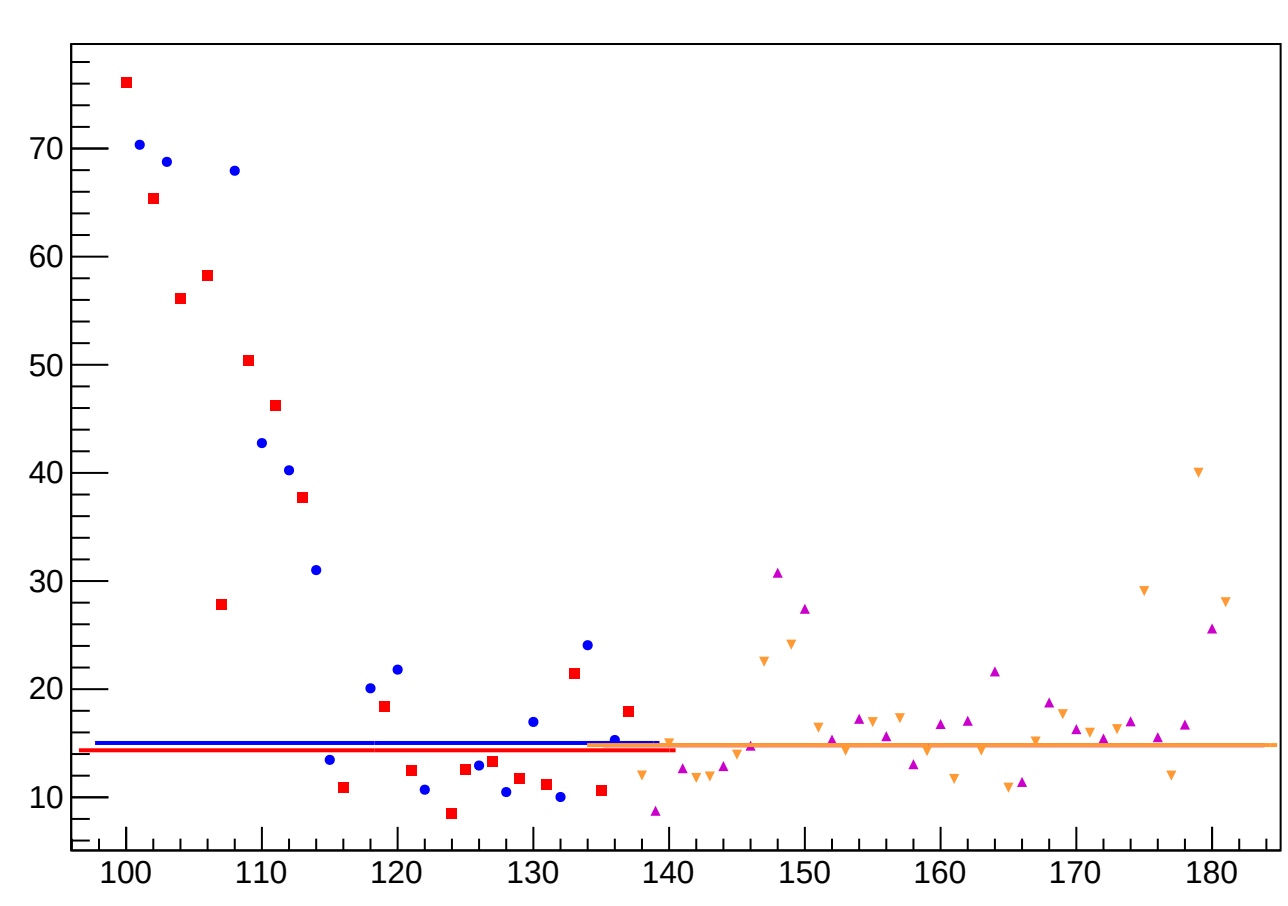
Left: 0.005+/-0.003 $\chi^2$/NDF: 61.3/43

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: 0.002+/-0.003 $\chi^2$/NDF:51.9/36

Out: 0.003+/-0.003 $\chi^2$/NDF:43.2/41

All: 0.002+/-0.002 $\chi^2$/NDF: 95.1/78




Right In: 15.025+/-0.005 $\chi^2$/NDF: 3438279.3/15

Left Out: 14.830+/-0.003 $\chi^2$/NDF:2380958.5/22

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629004.9/18

Left In: 14.811+/-0.003 $\chi^2$/NDF:2384292.4/20

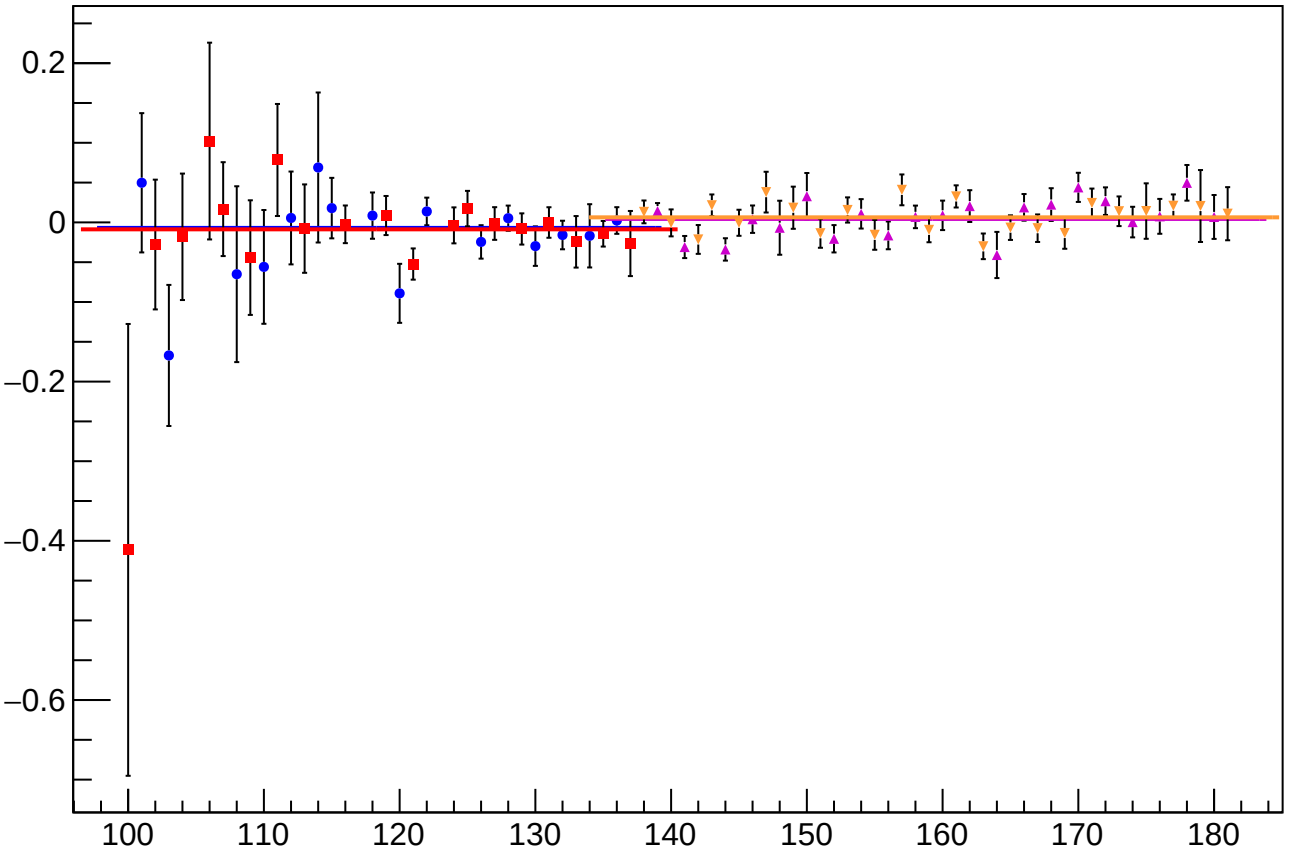
Left: 14.821+/-0.002 $\chi^2$/NDF: 4765275.1/43

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077938.8/34

In: 14.864+/-0.002 $\chi^2$/NDF:5824097.6/36

Out: 14.708+/-0.002 $\chi^2$/NDF:6018455.4/41

All: 14.783+/-0.002 $\chi^2$/NDF: 11844823.6/78




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.006+/-0.004 $\chi^2$/NDF:26.4/22

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: 0.004+/-0.004 $\chi^2$/NDF:34.8/20

Left: 0.005+/-0.003 $\chi^2$/NDF: 61.3/43

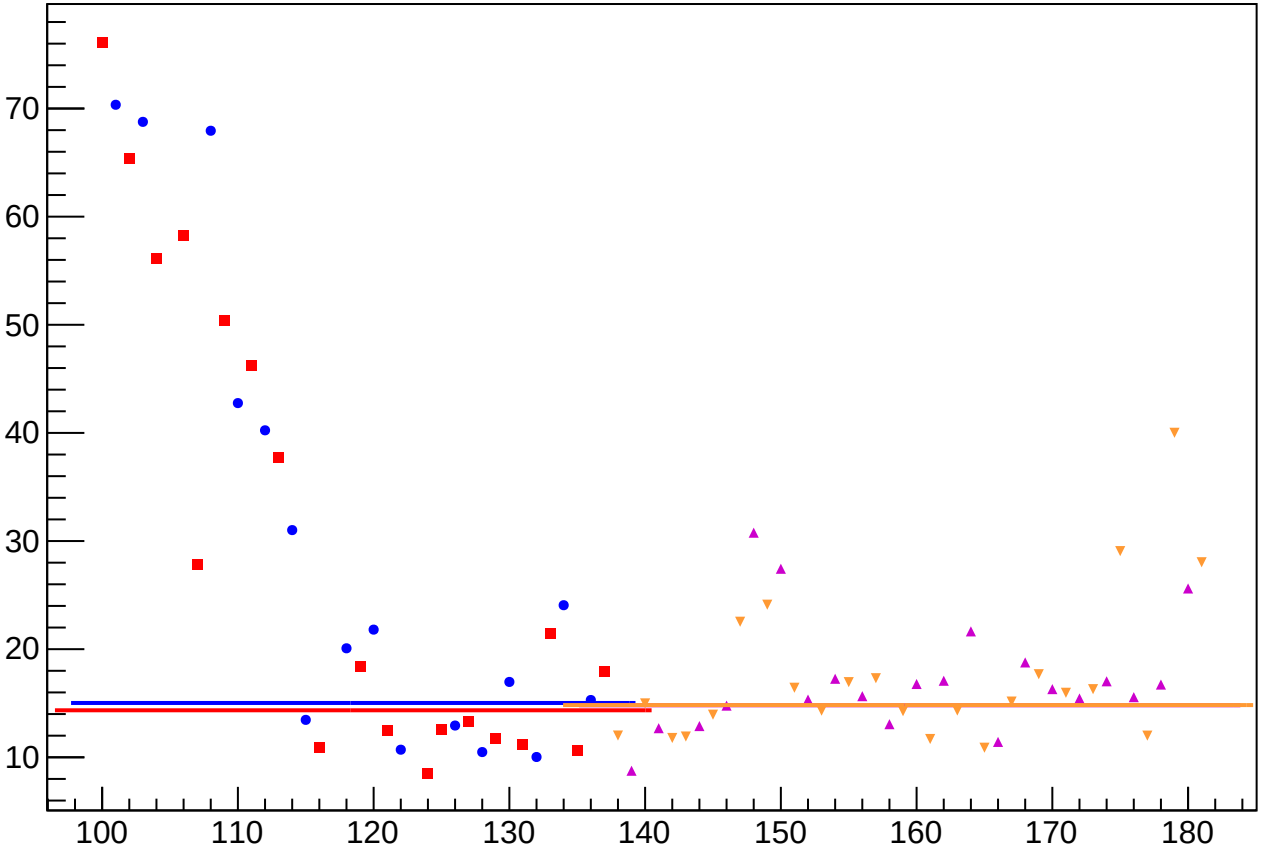
Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: 0.002+/-0.003 $\chi^2$/NDF:51.9/36

Out: 0.003+/-0.003 $\chi^2$/NDF:43.2/41

All: 0.002+/-0.002 $\chi^2$/NDF: 95.1/78

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 15.025+/-0.005 $\chi^2$/NDF: 3438279.3/15

Left Out: 14.830+/-0.003 $\chi^2$/NDF:2380958.5/22

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629004.9/18

Left In: 14.811+/-0.003 $\chi^2$/NDF:2384292.4/20

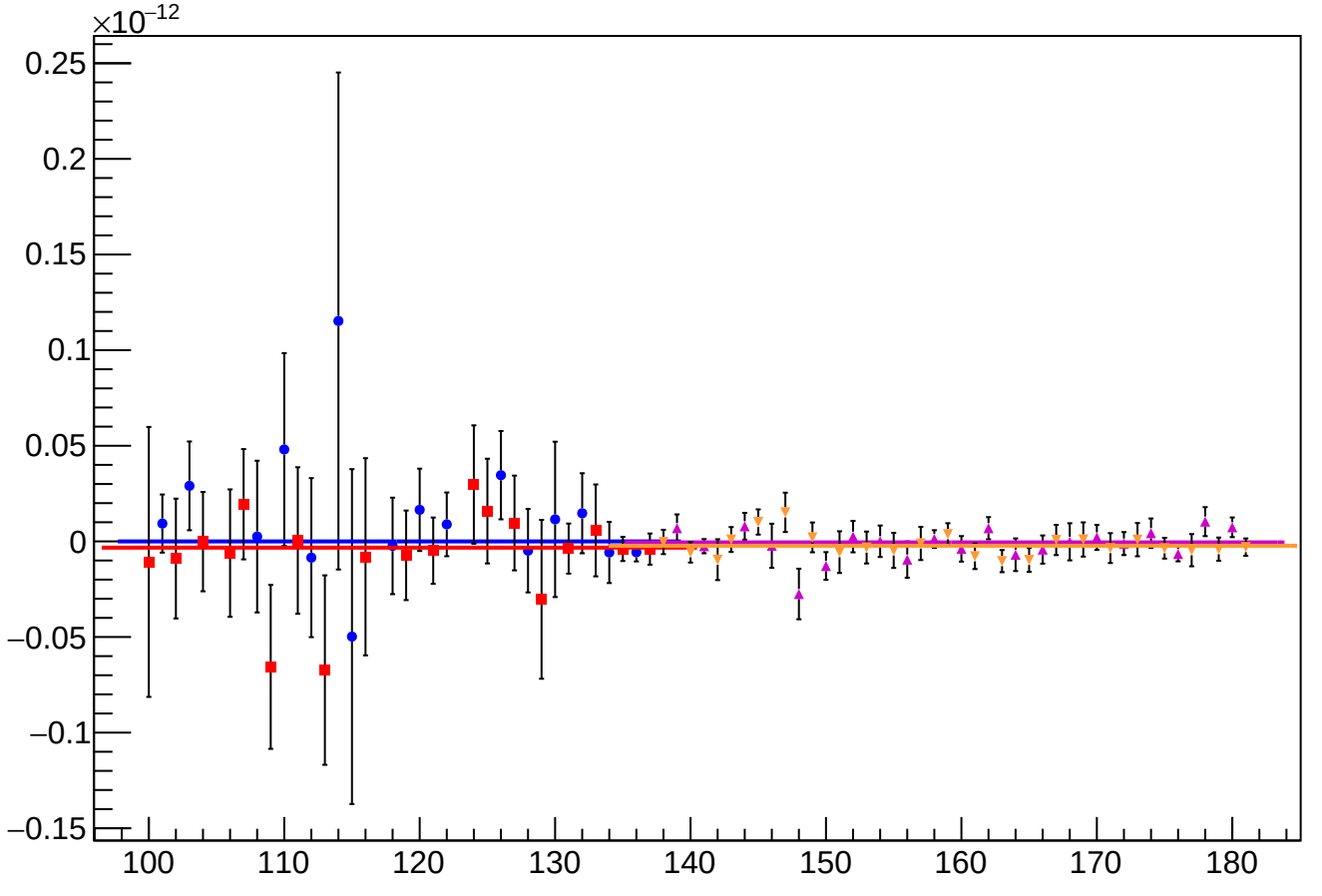
Left: 14.821+/-0.002 $\chi^2$/NDF: 4765275.1/43

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077938.8/34

In: 14.864+/-0.002 $\chi^2$/NDF:5824097.6/36

Out: 14.708+/-0.002 $\chi^2$/NDF:6018455.4/41

All: 14.783+/-0.002 $\chi^2$/NDF: 11844823.6/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 7.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:21.3/20

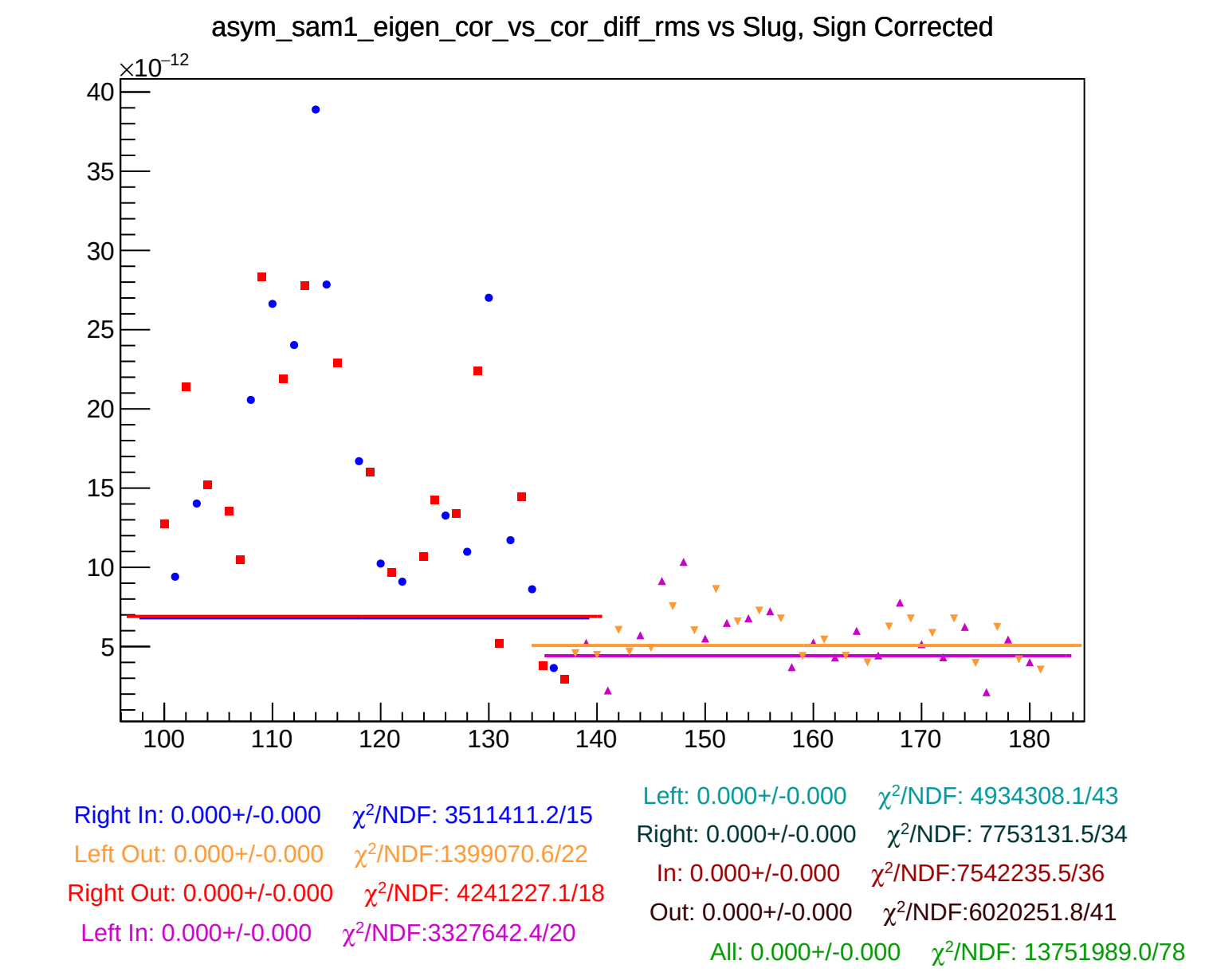
Left: -0.000+/-0.000 $\chi^2$/NDF: 36.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 16.7/34

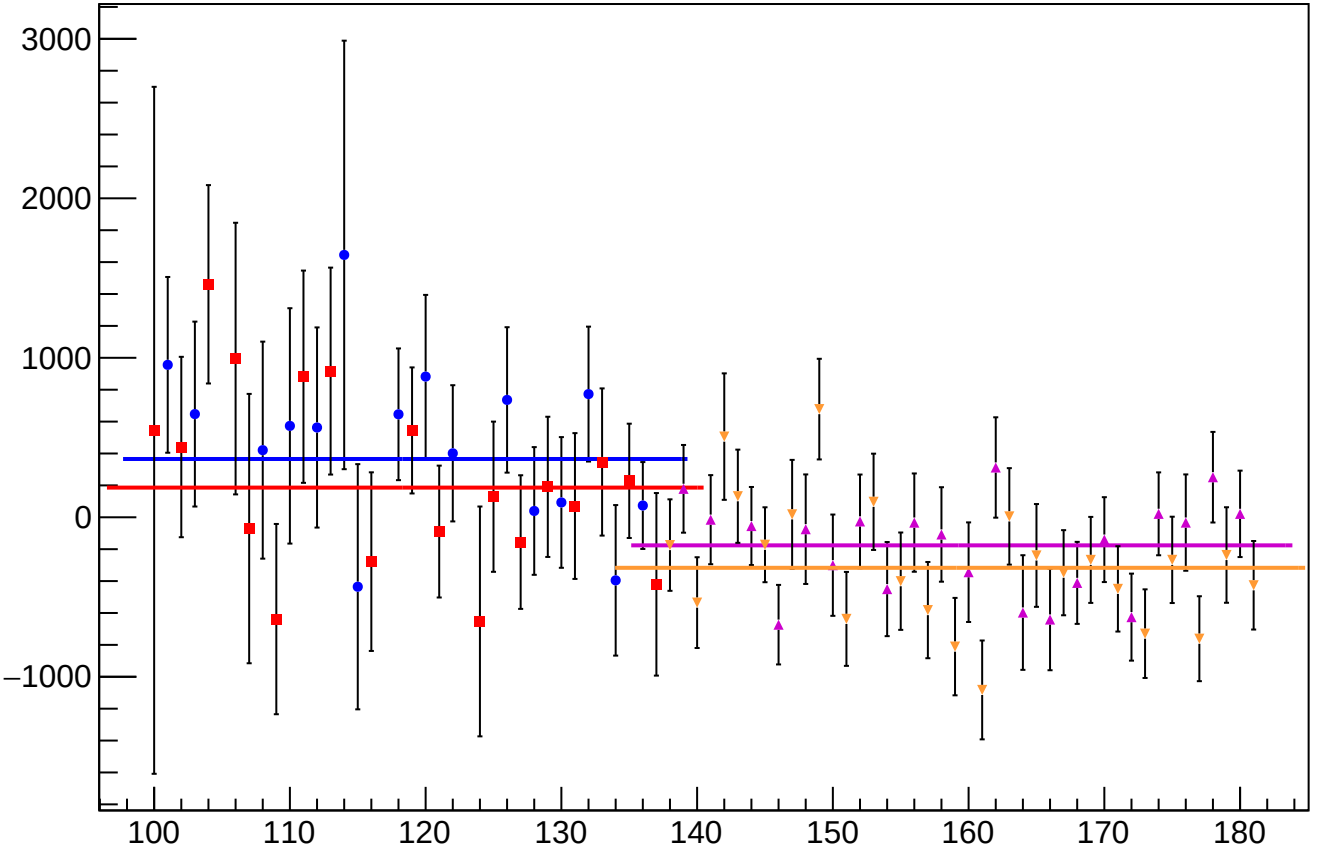
In: -0.000+/-0.000 $\chi^2$/NDF:30.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:21.0/41

All: -0.000+/-0.000 $\chi^2$/NDF: 52.6/78


asym_sam1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
40
35
30
25
20
15
10
5
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 3511411.2/15
Left Out: 0.000+/-0.000 χ²/NDF:1399070.6/22
Right Out: 0.000+/-0.000 χ²/NDF: 4241227.1/18
Left In: 0.000+/-0.000 χ²/NDF:3327642.4/20
Left: 0.000+/-0.000 χ²/NDF: 4934308.1/43
Right: 0.000+/-0.000 χ²/NDF: 7753131.5/34
In: 0.000+/-0.000 χ²/NDF:7542235.5/36
Out: 0.000+/-0.000 χ²/NDF:6020251.8/41
All: 0.000+/-0.000 χ²/NDF: 13751989.0/78

# reg_asym_sam2_mean vs Slug, Sign Corrected




Right In: 365.540+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -316.795+/-60.653 $\chi^2$/NDF:38.2/22

Right Out: 186.141+/-120.188 $\chi^2$/NDF: 15.0/18

Left In: -175.977+/-62.666 $\chi^2$/NDF:21.2/20

Left: -248.684+/-43.582 $\chi^2$/NDF: 62.0/43

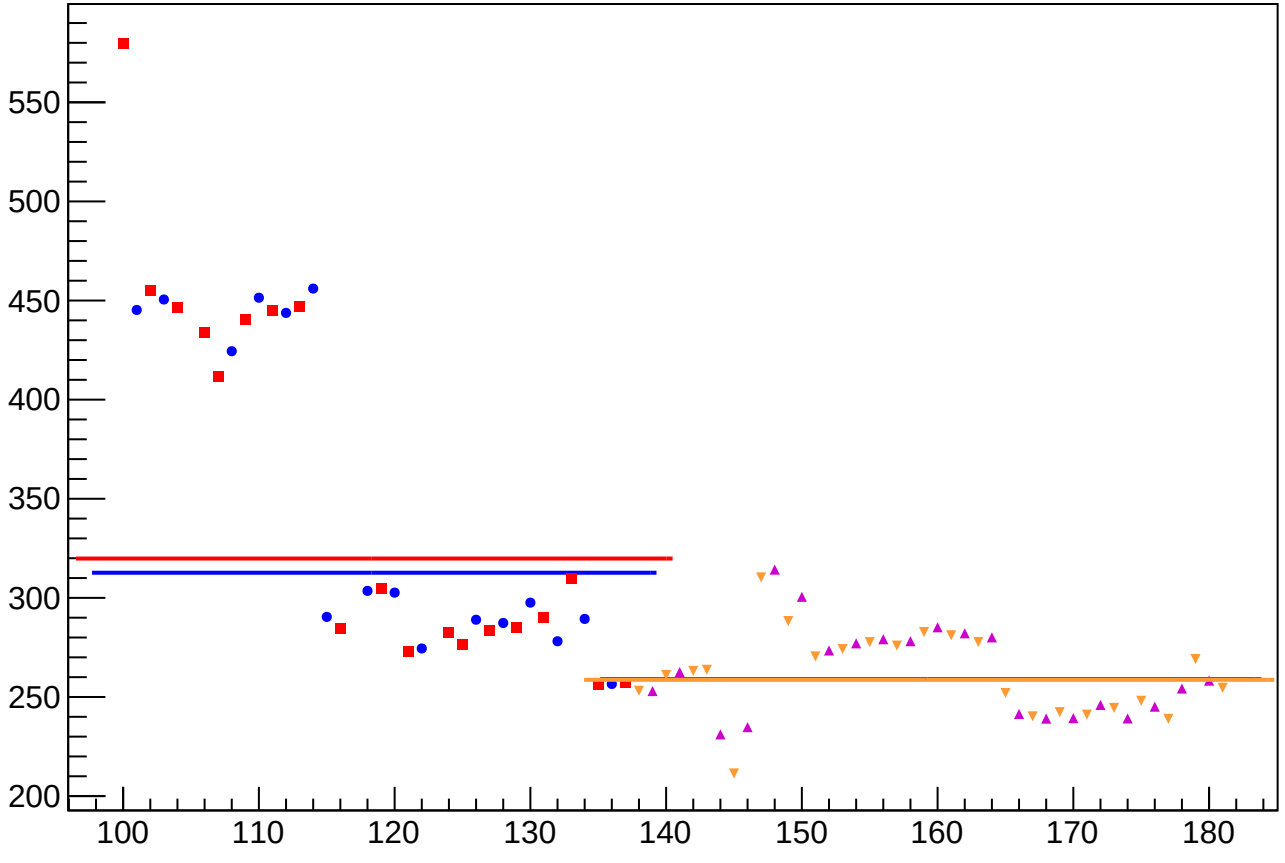
Right: 276.827+/-84.517 $\chi^2$/NDF: 27.6/34

In: -58.214+/-55.435 $\chi^2$/NDF:49.0/36

Out: -214.709+/-54.149 $\chi^2$/NDF:67.1/41

All: -138.298+/-38.736 $\chi^2$/NDF: 120.2/78

# reg_asym_sam2_rms vs Slug, Sign Corrected




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602207.7/15

Left Out: 258.662+/-0.043 $\chi^2$/NDF:248095.9/22

Right Out: 319.841+/-0.085 $\chi^2$/NDF: 697878.1/18

Left In: 259.083+/-0.044 $\chi^2$/NDF:243050.2/20

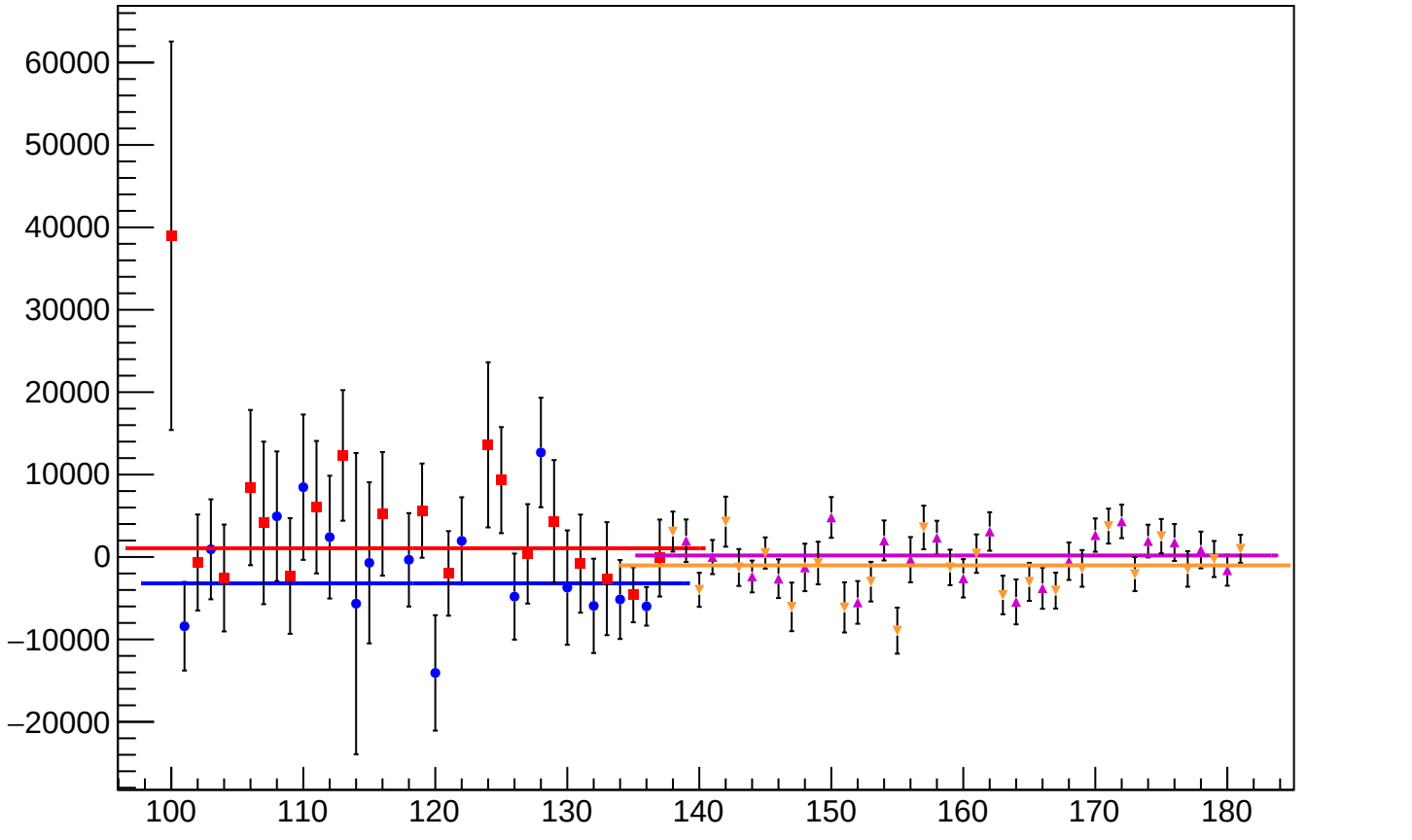
Left: 258.866+/-0.031 $\chi^2$/NDF: 491192.7/43

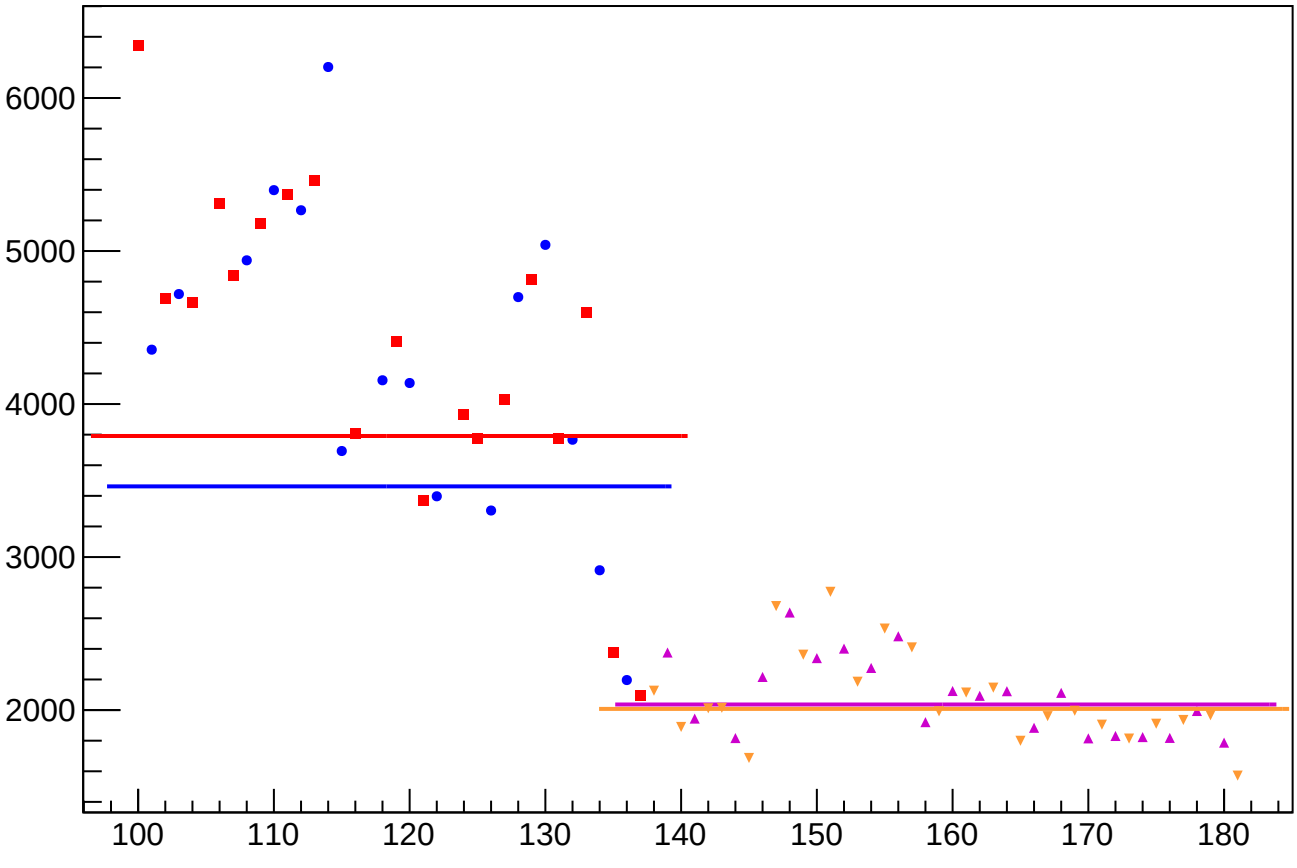
Right: 316.222+/-0.060 $\chi^2$/NDF: 1303671.7/34

In: 270.740+/-0.039 $\chi^2$/NDF:1163446.4/36

Out: 271.080+/-0.038 $\chi^2$/NDF:1358995.7/41

All: 270.914+/-0.027 $\chi^2$/NDF: 2522480.7/78


asym_sam2_reg_correction_mean vs Slug, Sign Corrected
60000
50000
40000
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -3198.742+/-1353.814 χ²/NDF: 16.1/15
Left Out: -1018.278+/-474.579 χ²/NDF:41.3/22
Right Out: 1065.939+/-1443.326 χ²/NDF: 14.4/18
Left In: 184.457+/-494.693 χ²/NDF:31.7/20
Left: -441.858+/-342.468 χ²/NDF: 76.1/43
Right: -1202.738+/-987.420 χ²/NDF: 35.1/34
In: -214.063+/-464.644 χ²/NDF:53.3/36
Out: -814.927+/-450.833 χ²/NDF:57.6/41
All: -523.558+/-323.560 χ²/NDF: 111.8/78




Right In: 3461.927+/-0.957 $\chi^2$/NDF: 1309580.1/15

Left Out: 2007.704+/-0.336 $\chi^2$/NDF:652048.9/22

Right Out: 3791.207+/-1.021 $\chi^2$/NDF: 1155755.9/18

Left In: 2036.498+/-0.350 $\chi^2$/NDF:449537.8/20

Left: 2021.504+/-0.242 $\chi^2$/NDF: 1105115.3/43

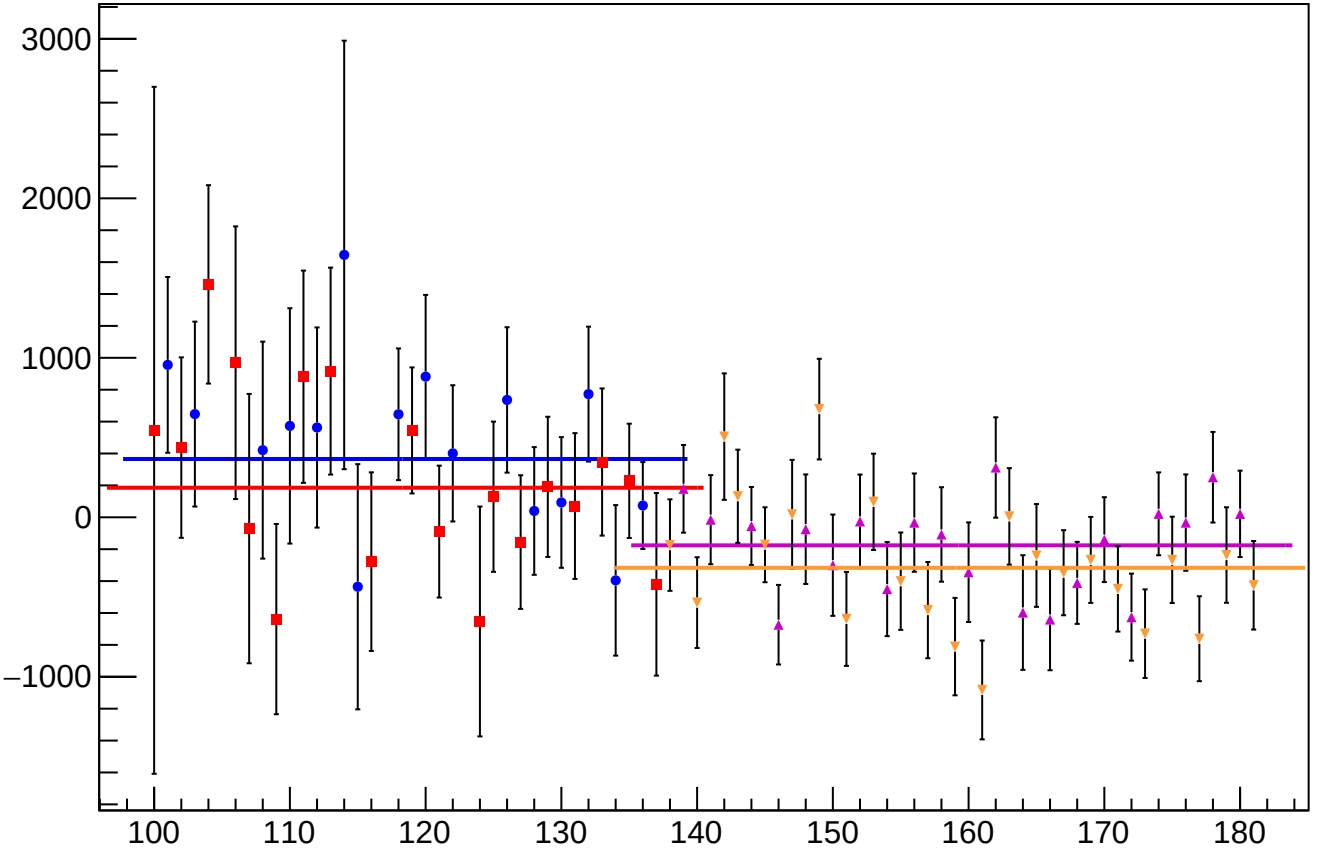
Right: 3616.041+/-0.698 $\chi^2$/NDF: 2520711.5/34

In: 2204.405+/-0.329 $\chi^2$/NDF:3715139.5/36

Out: 2181.715+/-0.319 $\chi^2$/NDF:4563708.0/41

All: 2192.718+/-0.229 $\chi^2$/NDF: 8281304.1/78

# cor_asym_sam2_mean vs Slug, Sign Corrected




Right In: 365.523+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -316.797+/-60.653 $\chi^2$/NDF:38.2/22

Right Out: 185.331+/-120.199 $\chi^2$/NDF: 14.9/18

Left In: -175.986+/-62.666 $\chi^2$/NDF:21.2/20

Left: -248.689+/-43.582 $\chi^2$/NDF: 62.0/43

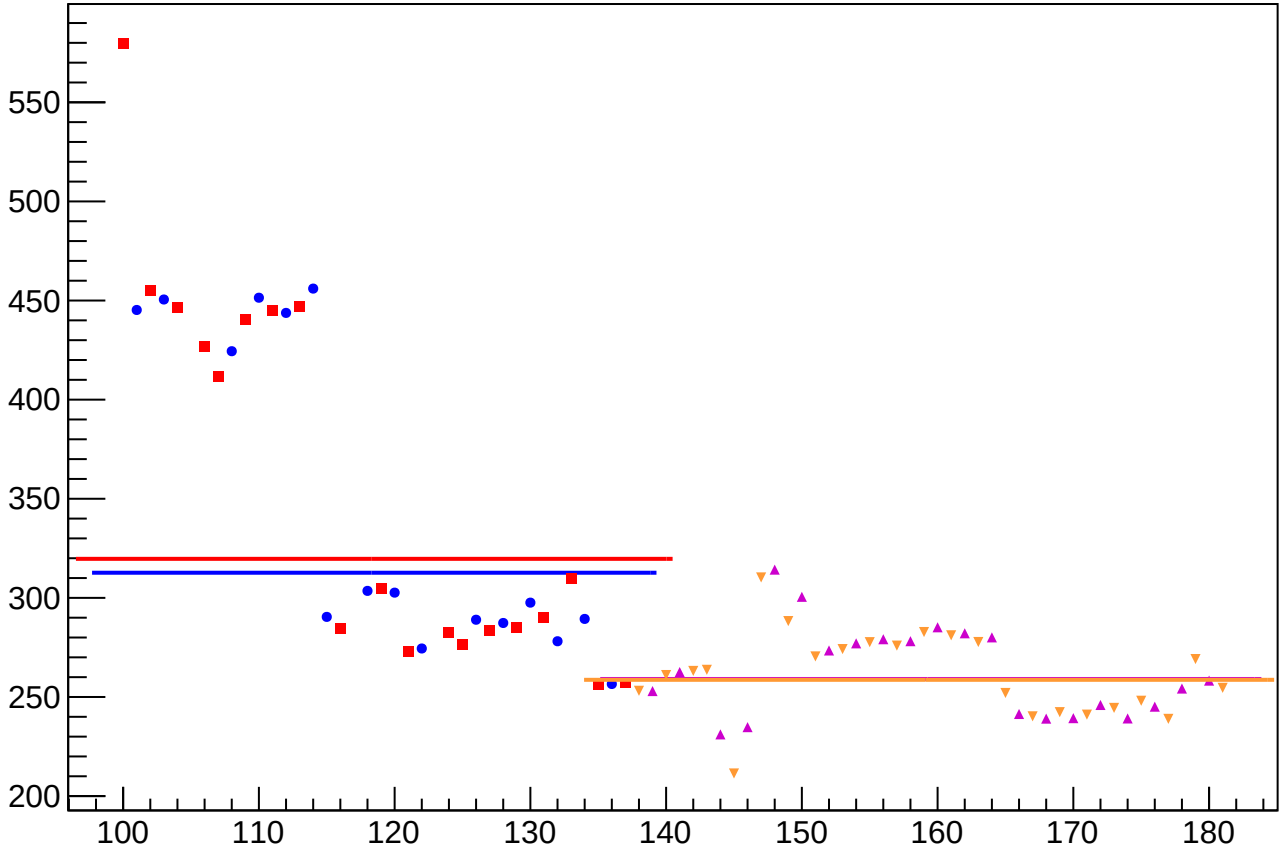
Right: 276.426+/-84.521 $\chi^2$/NDF: 27.6/34

In: -58.225+/-55.435 $\chi^2$/NDF:49.0/36

Out: -214.890+/-54.150 $\chi^2$/NDF:67.0/41

All: -138.394+/-38.736 $\chi^2$/NDF: 120.0/78

# cor_asym_sam2_rms vs Slug, Sign Corrected




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602209.1/15

Left Out: 258.662+/-0.043 $\chi^2$/NDF:248095.9/22

Right Out: 319.693+/-0.085 $\chi^2$/NDF: 693714.1/18

Left In: 259.083+/-0.044 $\chi^2$/NDF:243050.2/20

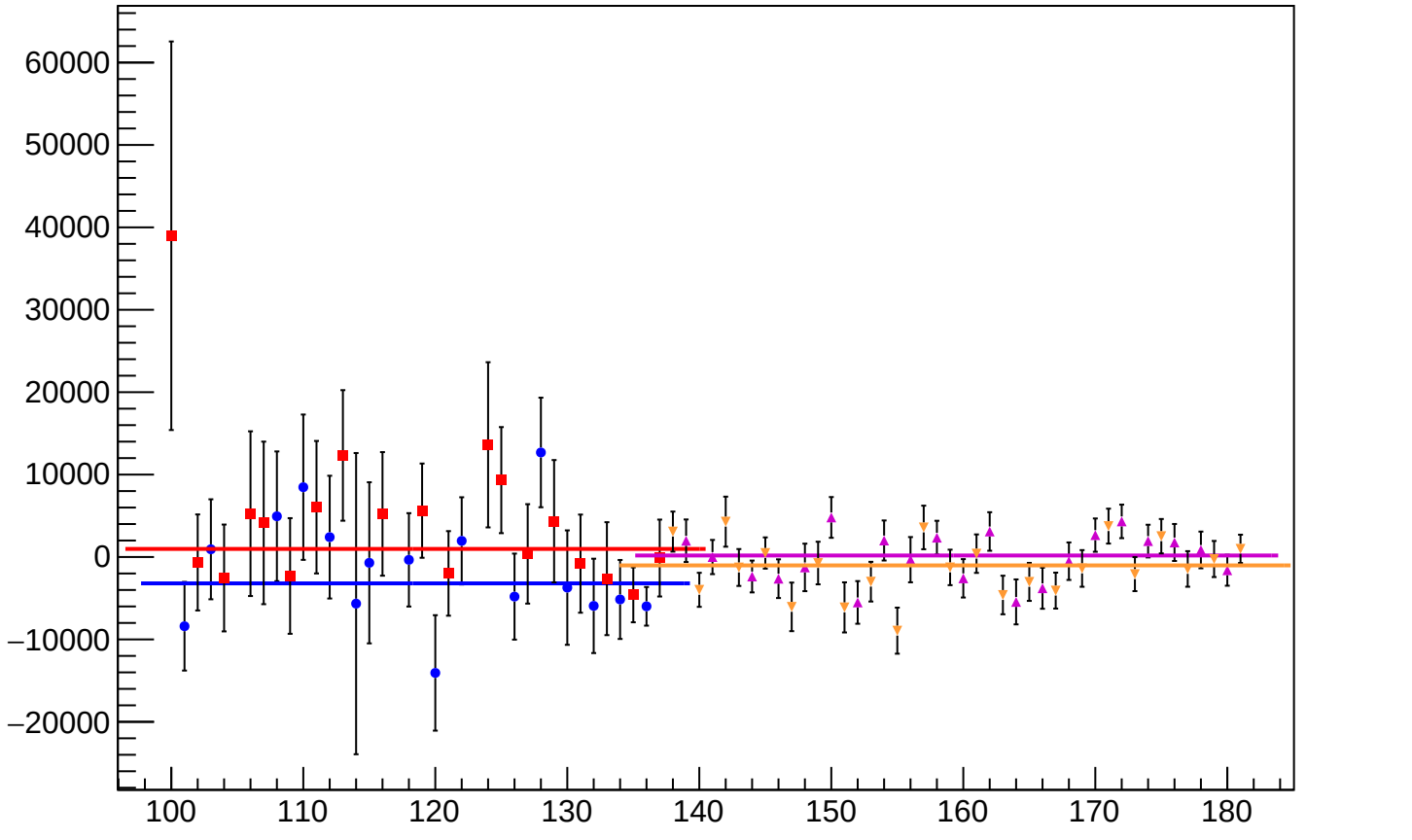
Left: 258.866+/-0.031 $\chi^2$/NDF: 491192.7/43

Right: 316.149+/-0.060 $\chi^2$/NDF: 1299362.0/34

In: 270.740+/-0.039 $\chi^2$/NDF:1163447.9/36

Out: 271.048+/-0.038 $\chi^2$/NDF:1352773.2/41

All: 270.898+/-0.027 $\chi^2$/NDF: 2516252.9/78




Right In: -3198.673+/-1353.816 $\chi^2$/NDF: 16.1/15

Left Out: -1018.275+/-474.579 $\chi^2$/NDF:41.3/22

Right Out: 980.937+/-1445.265 $\chi^2$/NDF: 14.0/18

Left In: 184.457+/-494.693 $\chi^2$/NDF:31.7/20

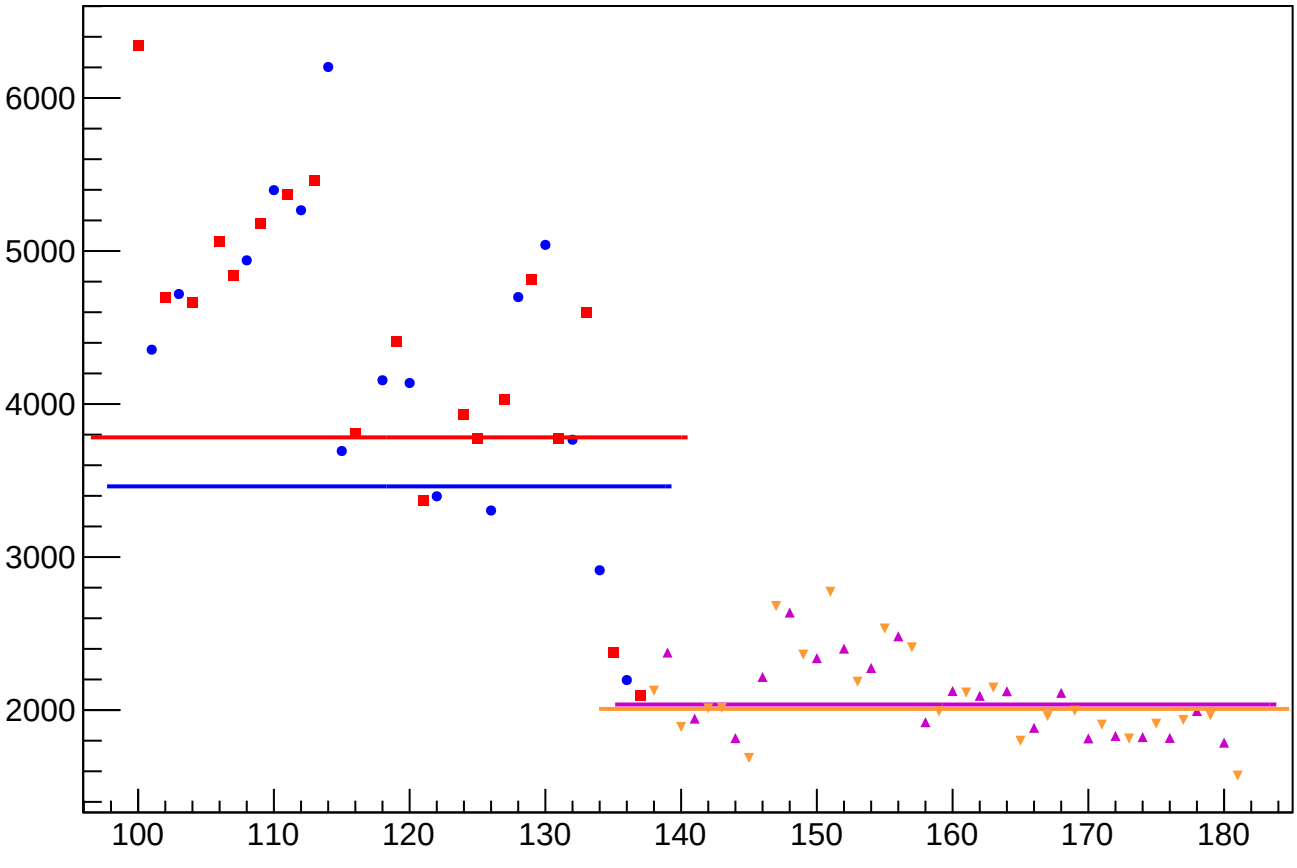
Left: -441.856+/-342.468 $\chi^2$/NDF: 76.1/43

Right: -1245.274+/-988.041 $\chi^2$/NDF: 34.5/34

In: -214.054+/-464.644 $\chi^2$/NDF:53.3/36

Out: -823.690+/-450.892 $\chi^2$/NDF:57.0/41

All: -528.027+/-323.582 $\chi^2$/NDF: 111.2/78




Right In: 3461.932+/-0.957 $\chi^2$/NDF: 1309596.2/15

Left Out: 2007.704+/-0.336 $\chi^2$/NDF:652050.7/22

Right Out: 3782.176+/-1.022 $\chi^2$/NDF: 1136342.8/18

Left In: 2036.498+/-0.350 $\chi^2$/NDF:449541.2/20

Left: 2021.504+/-0.242 $\chi^2$/NDF: 1105120.4/43

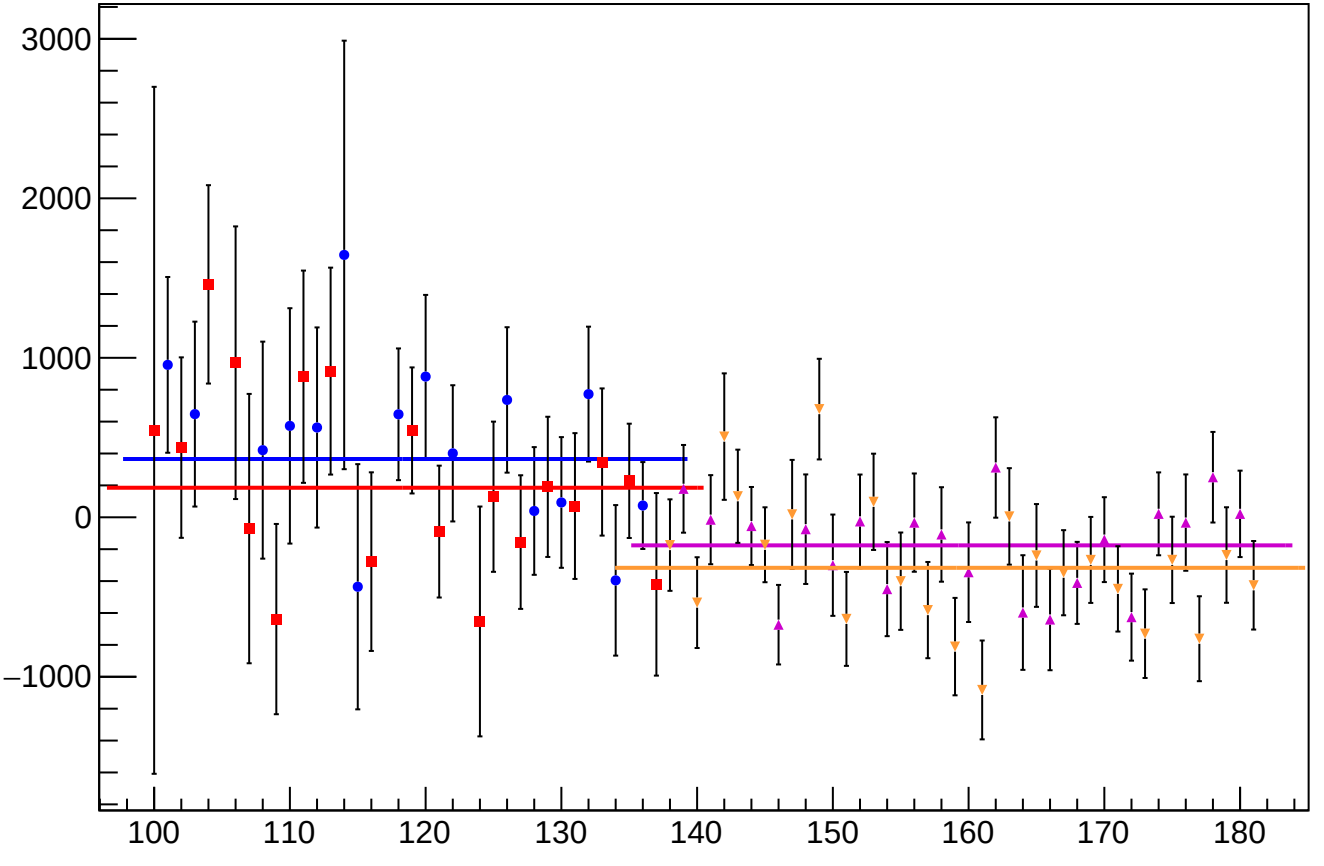
Right: 3611.602+/-0.699 $\chi^2$/NDF: 2498242.4/34

In: 2204.405+/-0.329 $\chi^2$/NDF:3715163.5/36

Out: 2180.415+/-0.319 $\chi^2$/NDF:4509855.6/41

All: 2192.050+/-0.229 $\chi^2$/NDF: 8227765.0/78

# eigen_cor_asym_sam2_mean vs Slug, Sign Corrected




Right In: 365.523+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -316.797+/-60.653 $\chi^2$/NDF:38.2/22

Right Out: 185.331+/-120.199 $\chi^2$/NDF: 14.9/18

Left In: -175.986+/-62.666 $\chi^2$/NDF:21.2/20

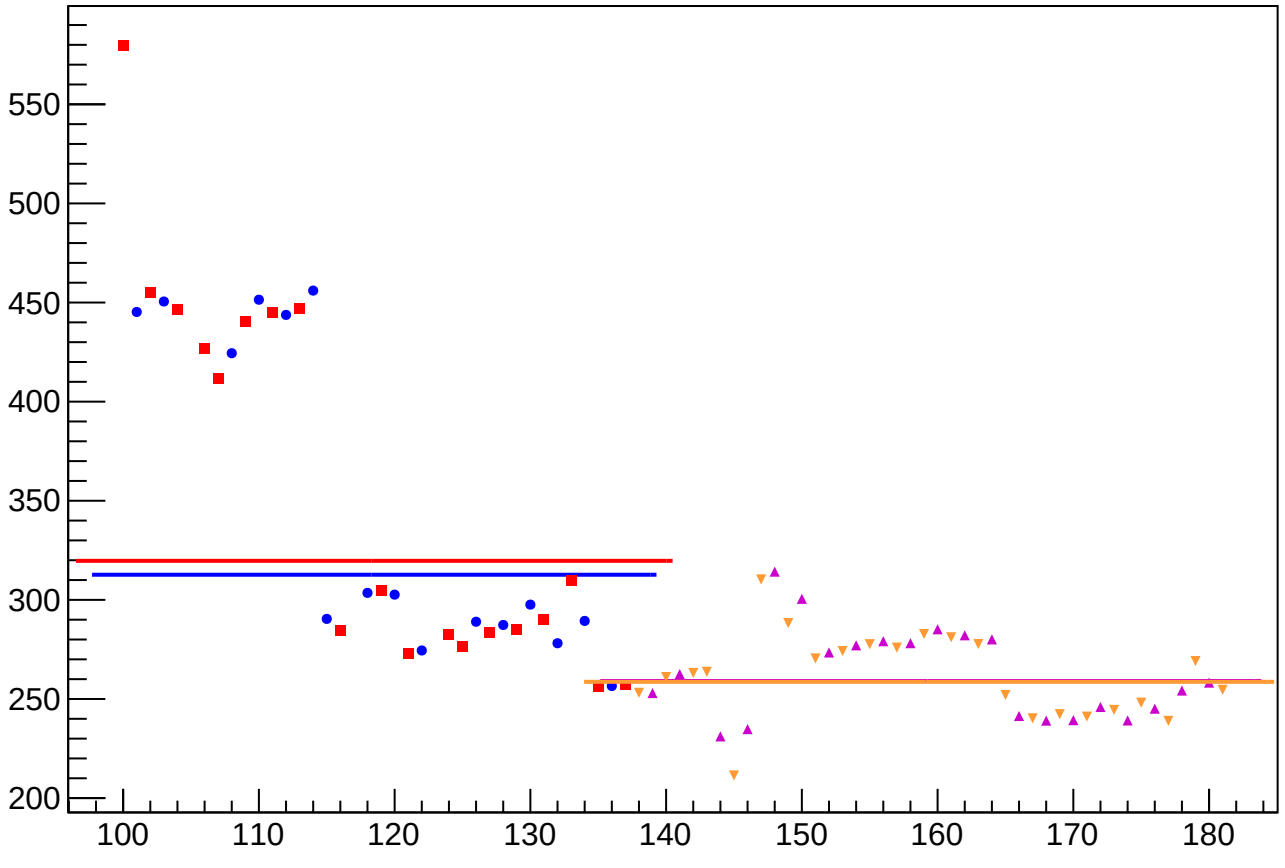
Left: -248.689+/-43.582 $\chi^2$/NDF: 62.0/43

Right: 276.426+/-84.521 $\chi^2$/NDF: 27.6/34

In: -58.225+/-55.435 $\chi^2$/NDF:49.0/36

Out: -214.890+/-54.150 $\chi^2$/NDF:67.0/41

All: -138.394+/-38.736 $\chi^2$/NDF: 120.0/78




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602209.1/15

Left Out: 258.662+/-0.043 $\chi^2$/NDF:248095.9/22

Right Out: 319.693+/-0.085 $\chi^2$/NDF: 693714.1/18

Left In: 259.083+/-0.044 $\chi^2$/NDF:243050.2/20

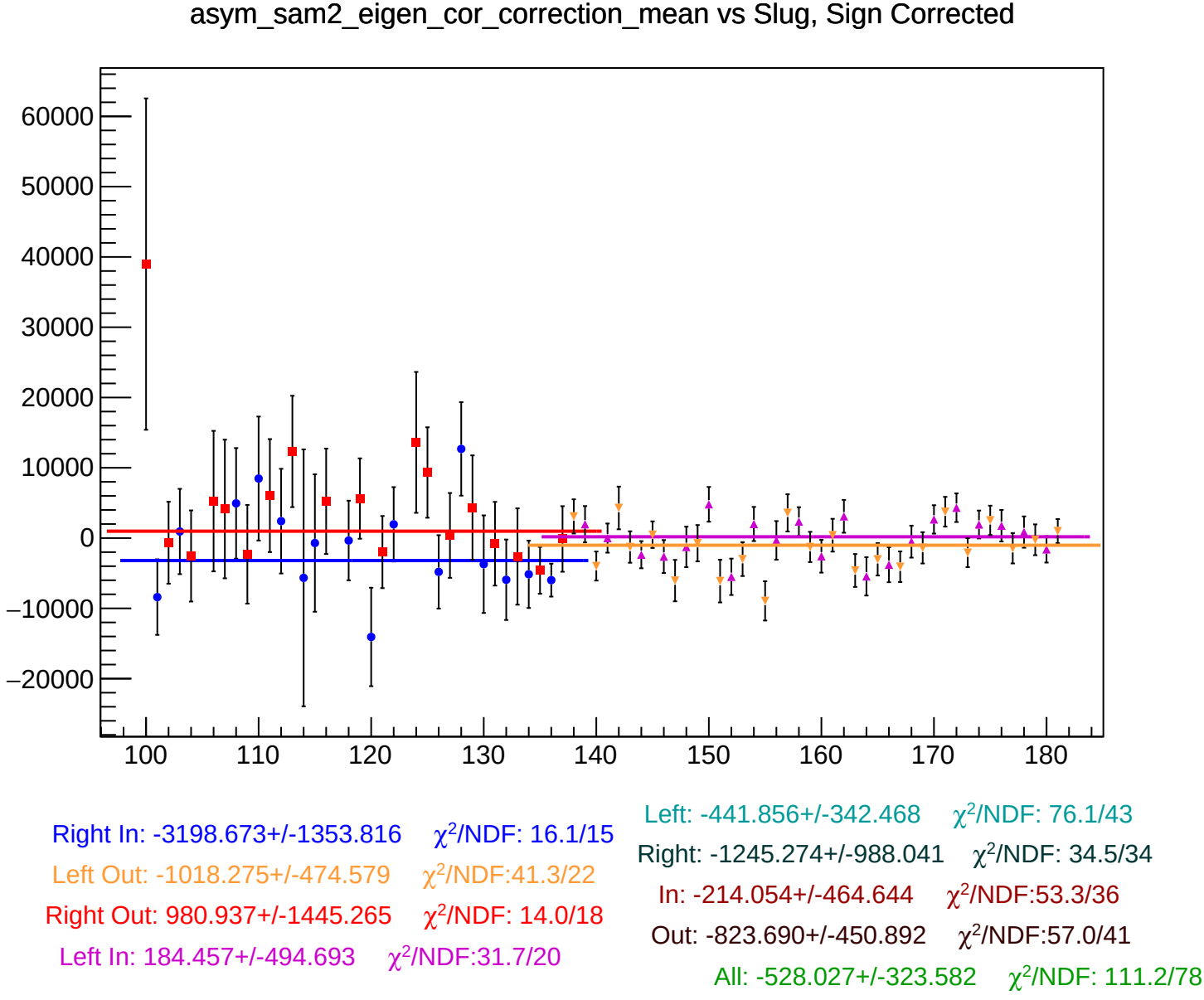
Left: 258.866+/-0.031 $\chi^2$/NDF: 491192.7/43

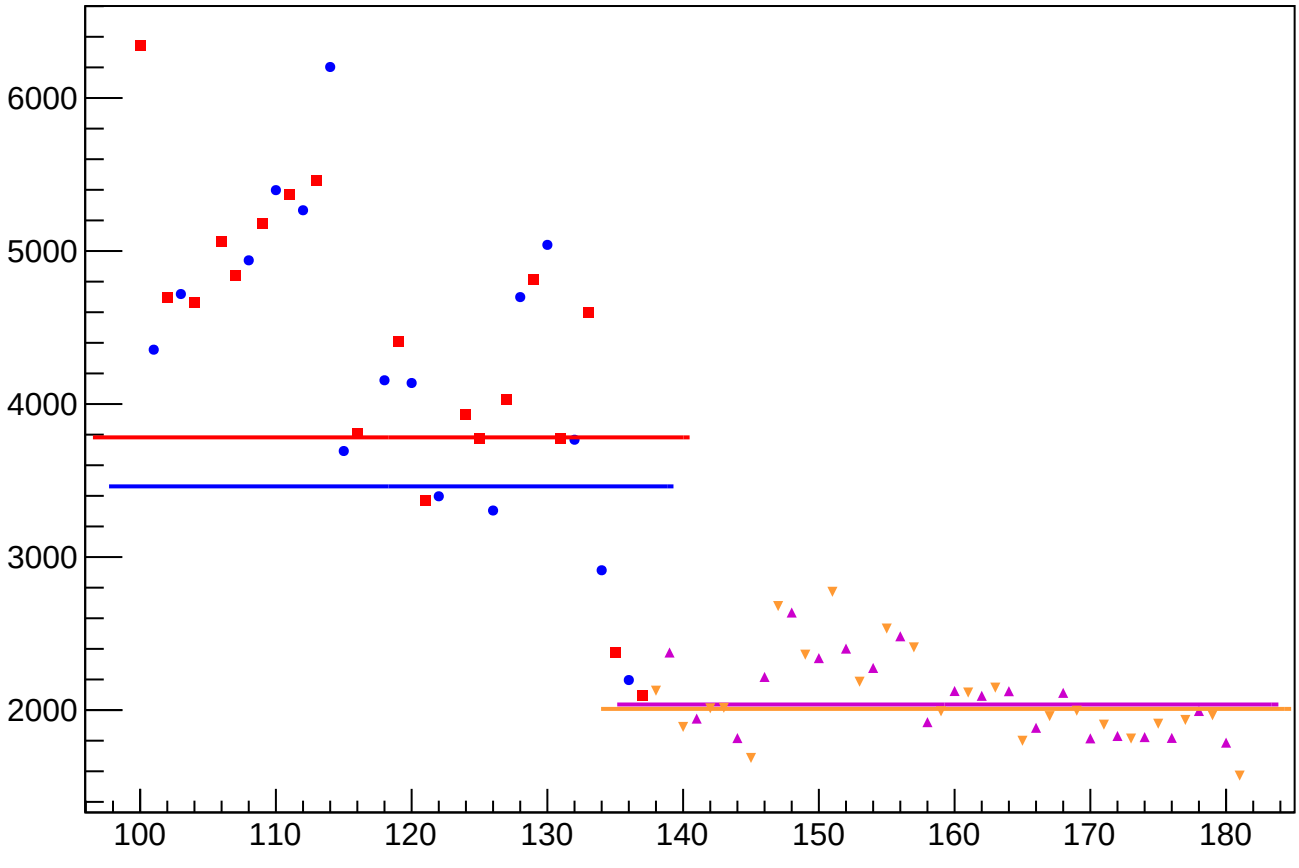
Right: 316.149+/-0.060 $\chi^2$/NDF: 1299362.0/34

In: 270.740+/-0.039 $\chi^2$/NDF:1163447.9/36

Out: 271.048+/-0.038 $\chi^2$/NDF:1352773.2/41

All: 270.898+/-0.027 $\chi^2$/NDF: 2516252.9/78


asym_sam2_eigen_cor_correction_mean vs Slug, Sign Corrected
60000
50000
40000
30000
20000
10000
0
−10000
−20000
100
110
120
130
140
150
160
170
180
Right In: -3198.673+/-1353.816 χ²/NDF: 16.1/15
Left Out: -1018.275+/-474.579 χ²/NDF:41.3/22
Right Out: 980.937+/-1445.265 χ²/NDF: 14.0/18
Left In: 184.457+/-494.693 χ²/NDF:31.7/20
Left: -441.856+/-342.468 χ²/NDF: 76.1/43
Right: -1245.274+/-988.041 χ²/NDF: 34.5/34
In: -214.054+/-464.644 χ²/NDF:53.3/36
Out: -823.690+/-450.892 χ²/NDF:57.0/41
All: -528.027+/-323.582 χ²/NDF: 111.2/78




Right In: 3461.932+/-0.957 $\chi^2$/NDF: 1309596.2/15

Left Out: 2007.704+/-0.336 $\chi^2$/NDF:652050.7/22

Right Out: 3782.176+/-1.022 $\chi^2$/NDF: 1136342.8/18

Left In: 2036.498+/-0.350 $\chi^2$/NDF:449541.2/20

Left: 2021.504+/-0.242 $\chi^2$/NDF: 1105120.4/43

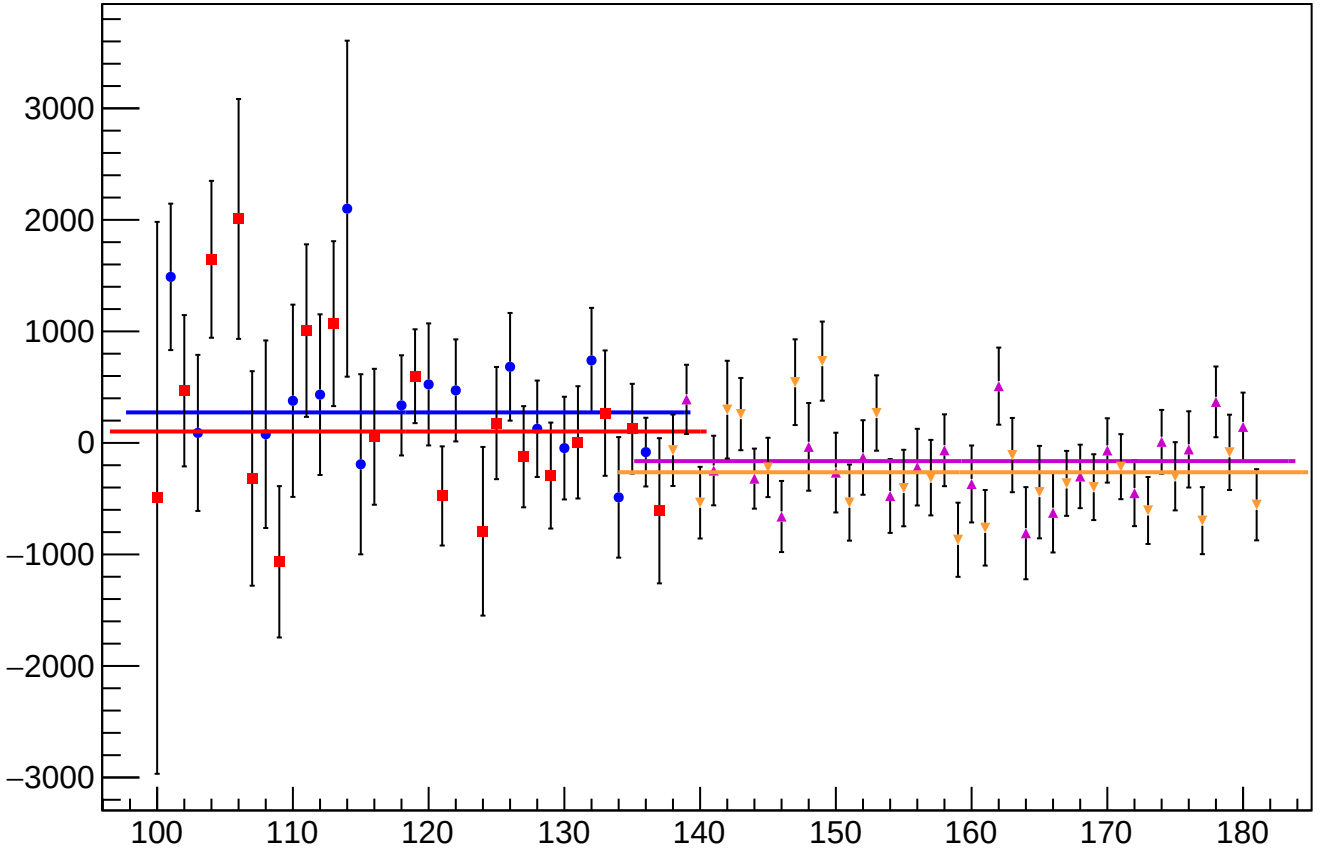
Right: 3611.602+/-0.699 $\chi^2$/NDF: 2498242.4/34

In: 2204.405+/-0.329 $\chi^2$/NDF:3715163.5/36

Out: 2180.415+/-0.319 $\chi^2$/NDF:4509855.6/41

All: 2192.050+/-0.229 $\chi^2$/NDF: 8227765.0/78

# dit_asym_sam2_mean vs Slug, Sign Corrected




Right In: 273.578+/-132.537 $\chi^2$/NDF: 11.4/15

Left Out: -263.137+/-67.944 $\chi^2$/NDF:31.7/22

Right Out: 102.369+/-133.606 $\chi^2$/NDF: 21.3/18

Left In: -163.340+/-70.293 $\chi^2$/NDF:21.1/20

Left: -214.934+/-48.853 $\chi^2$/NDF: 53.8/43

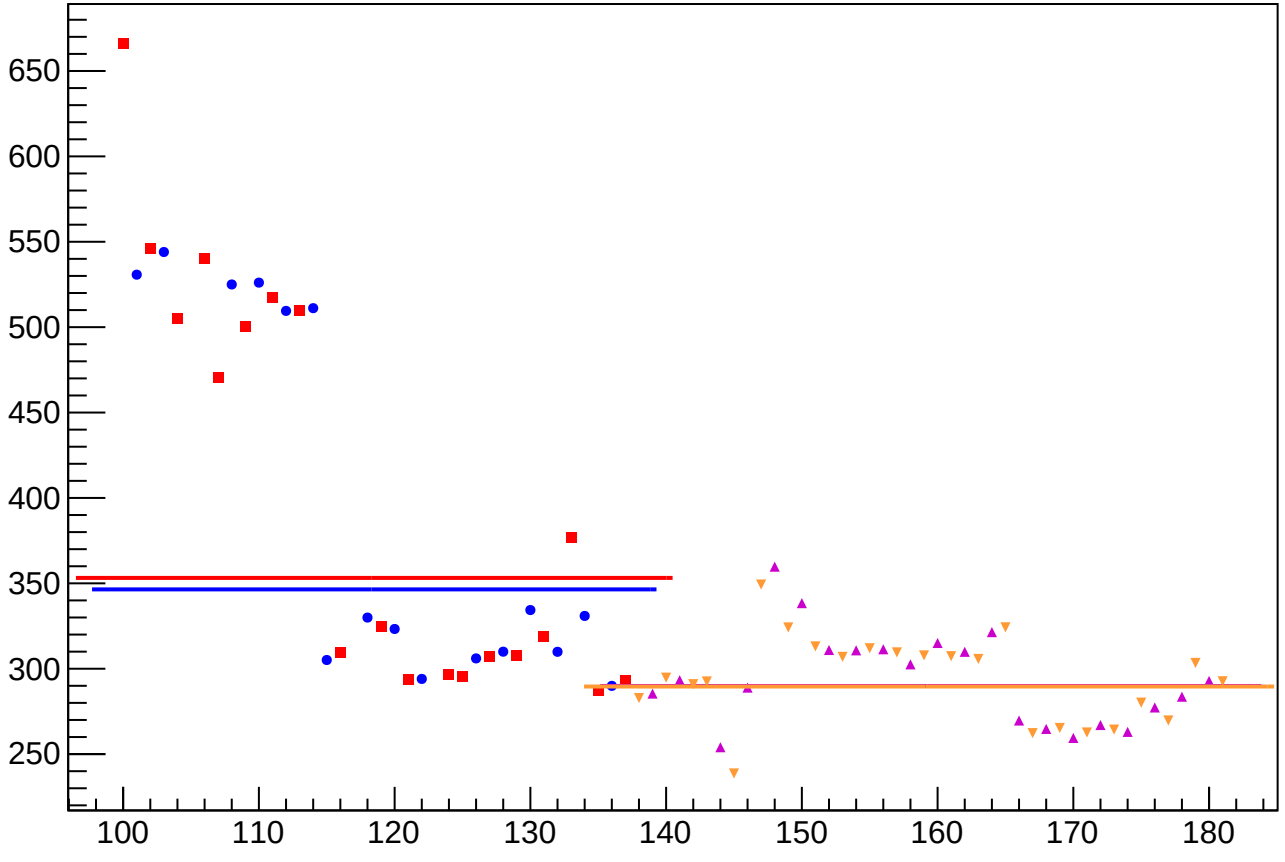
Right: 188.661+/-94.094 $\chi^2$/NDF: 33.6/34

In: -67.421+/-62.100 $\chi^2$/NDF:41.0/36

Out: -188.035+/-60.562 $\chi^2$/NDF:58.9/41

All: -129.240+/-43.357 $\chi^2$/NDF: 101.9/78

# dit_asym_sam2_rms vs Slug, Sign Corrected




Right In: 346.455+/-0.094 $\chi^2$/NDF: 768763.1/15

Left Out: 289.578+/-0.048 $\chi^2$/NDF:278931.2/22

Right Out: 353.178+/-0.094 $\chi^2$/NDF: 866364.3/18

Left In: 289.899+/-0.050 $\chi^2$/NDF:269525.8/20

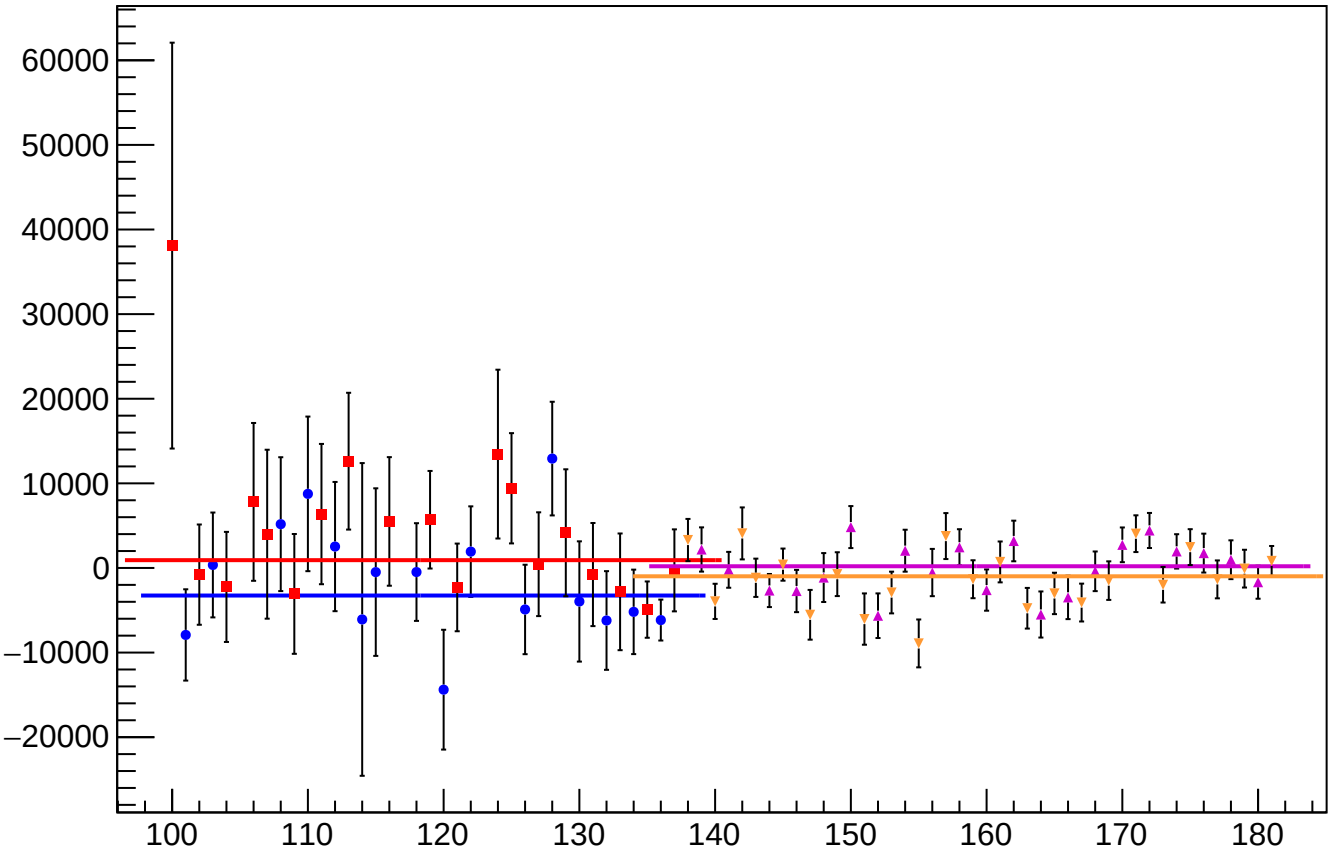
Left: 289.733+/-0.035 $\chi^2$/NDF: 548478.6/43

Right: 349.789+/-0.067 $\chi^2$/NDF: 1637679.7/34

In: 302.315+/-0.044 $\chi^2$/NDF:1322516.0/36

Out: 302.646+/-0.043 $\chi^2$/NDF:1505374.9/41

All: 302.485+/-0.031 $\chi^2$/NDF: 2827920.0/78




Right In: -3258.837+/-1384.139 $\chi^2$/NDF: 16.0/15

Left Out: -985.007+/-484.858 $\chi^2$/NDF:40.1/22

Right Out: 921.196+/-1460.727 $\chi^2$/NDF: 14.6/18

Left In: 201.032+/-506.998 $\chi^2$/NDF:31.8/20

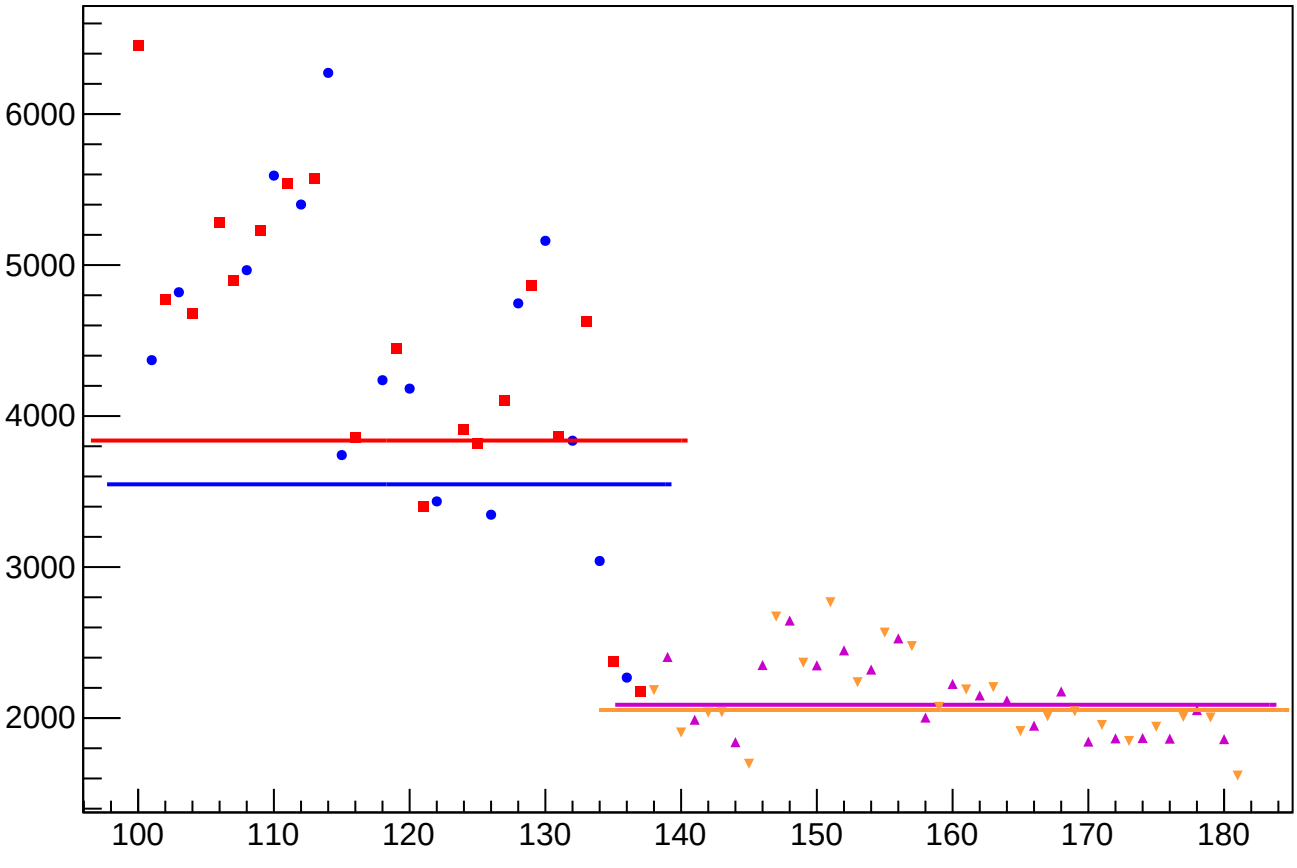
Left: -418.449+/-350.412 $\chi^2$/NDF: 74.7/43

Right: -1281.271+/-1004.719 $\chi^2$/NDF: 35.0/34

In: -208.261+/-476.066 $\chi^2$/NDF:53.3/36

Out: -795.830+/-460.170 $\chi^2$/NDF:56.3/41

All: -512.019+/-330.867 $\chi^2$/NDF: 110.4/78




Right In: 3547.969+/-0.979 $\chi^2$/NDF: 1258486.8/15

Left Out: 2053.432+/-0.343 $\chi^2$/NDF:613293.3/22

Right Out: 3837.970+/-1.033 $\chi^2$/NDF: 1155831.8/18

Left In: 2088.014+/-0.359 $\chi^2$/NDF:430209.6/20

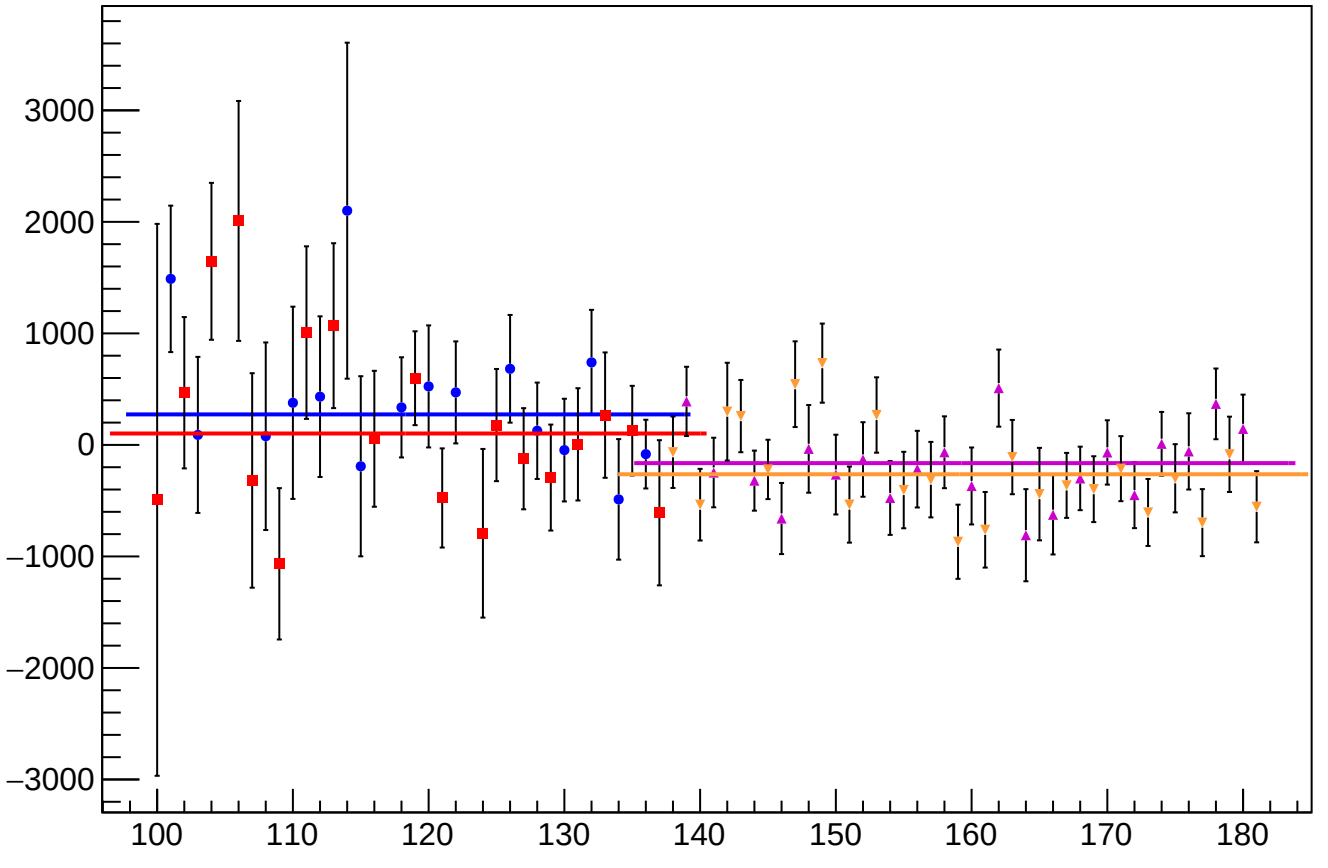
Left: 2069.952+/-0.248 $\chi^2$/NDF: 1048362.9/43

Right: 3685.168+/-0.710 $\chi^2$/NDF: 2455854.0/34

In: 2260.723+/-0.337 $\chi^2$/NDF:3650571.9/36

Out: 2230.535+/-0.325 $\chi^2$/NDF:4457877.0/41

All: 2245.117+/-0.234 $\chi^2$/NDF: 8112606.5/78




Right In: 273.582+/-132.536 $\chi^2$/NDF: 11.4/15

Left Out: -263.140+/-67.944 $\chi^2$/NDF:31.7/22

Right Out: 102.368+/-133.606 $\chi^2$/NDF: 21.3/18

Left In: -163.342+/-70.293 $\chi^2$/NDF:21.1/20

Left: -214.937+/-48.853 $\chi^2$/NDF: 53.8/43

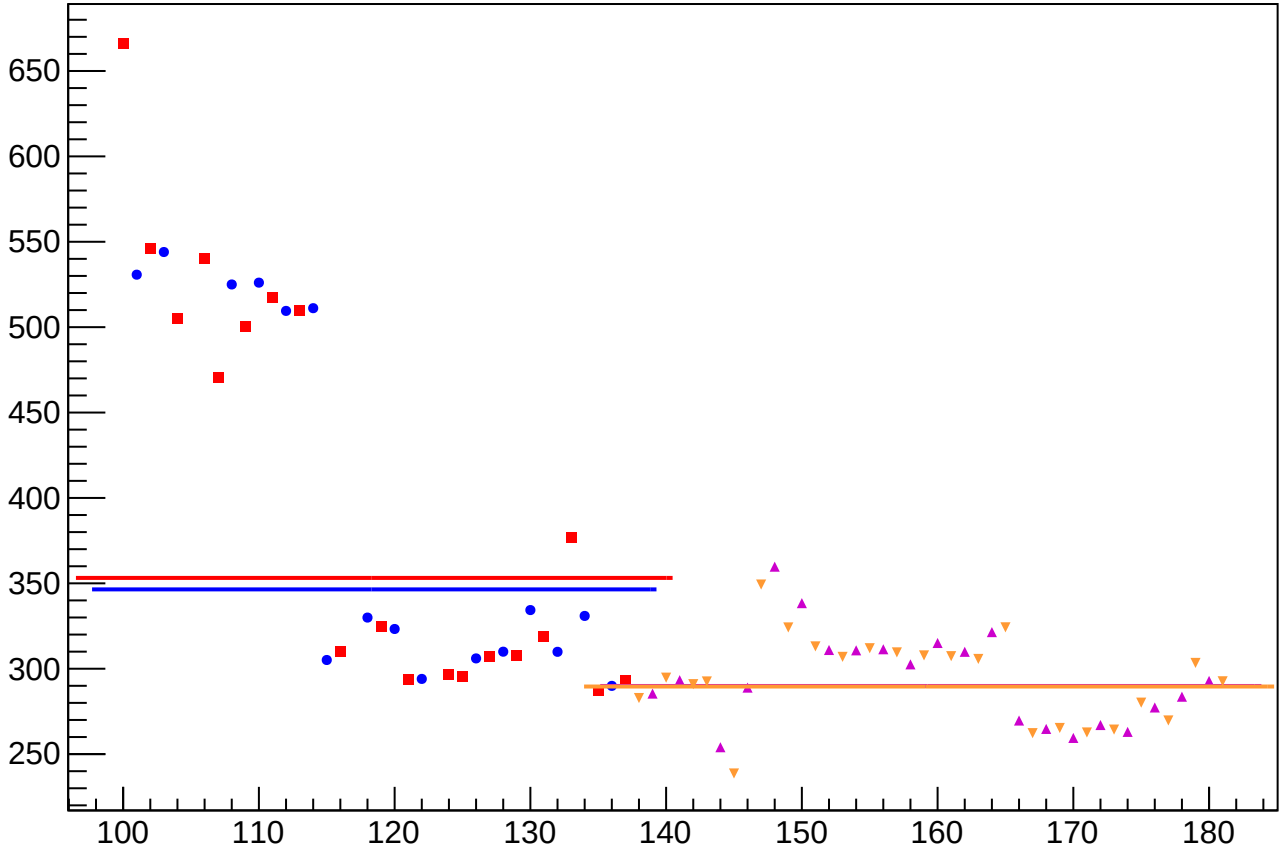
Right: 188.663+/-94.093 $\chi^2$/NDF: 33.6/34

In: -67.421+/-62.100 $\chi^2$/NDF:41.0/36

Out: -188.038+/-60.562 $\chi^2$/NDF:58.9/41

All: -129.241+/-43.357 $\chi^2$/NDF: 101.9/78

# eigen_dit_asym_sam2_rms vs Slug, Sign Corrected




Right In: 346.453+/-0.094 $\chi^2$/NDF: 768754.7/15

Left Out: 289.578+/-0.048 $\chi^2$/NDF:278937.0/22

Right Out: 353.176+/-0.094 $\chi^2$/NDF: 866353.6/18

Left In: 289.899+/-0.050 $\chi^2$/NDF:269528.2/20

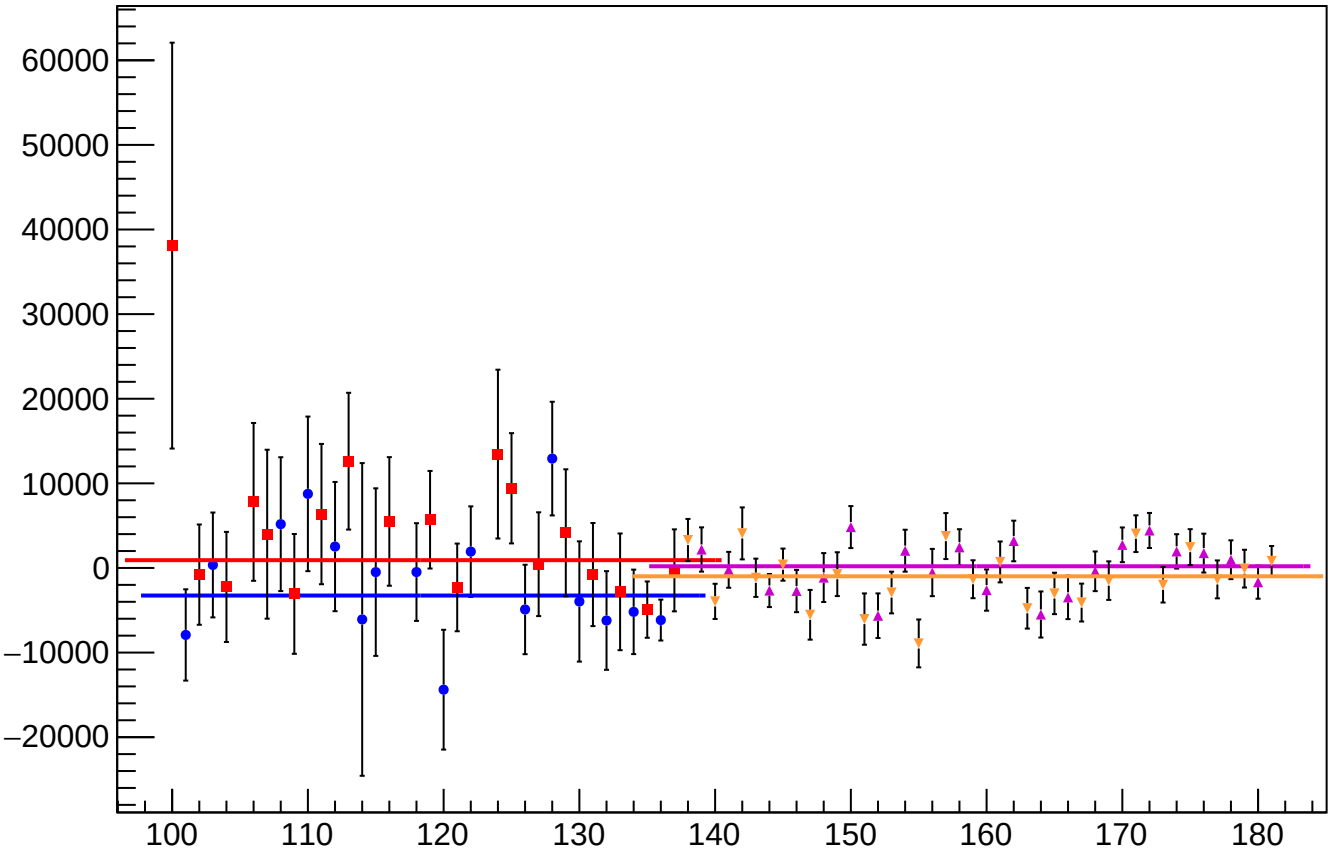
Left: 289.733+/-0.035 $\chi^2$/NDF: 548486.7/43

Right: 349.788+/-0.067 $\chi^2$/NDF: 1637661.2/34

In: 302.315+/-0.044 $\chi^2$/NDF:1322491.6/36

Out: 302.646+/-0.043 $\chi^2$/NDF:1505357.1/41

All: 302.484+/-0.031 $\chi^2$/NDF: 2827877.8/78




Right In: -3258.828+/-1384.137 $\chi^2$/NDF: 16.0/15

Left Out: -985.007+/-484.858 $\chi^2$/NDF:40.1/22

Right Out: 921.200+/-1460.725 $\chi^2$/NDF: 14.6/18

Left In: 201.033+/-506.998 $\chi^2$/NDF:31.8/20

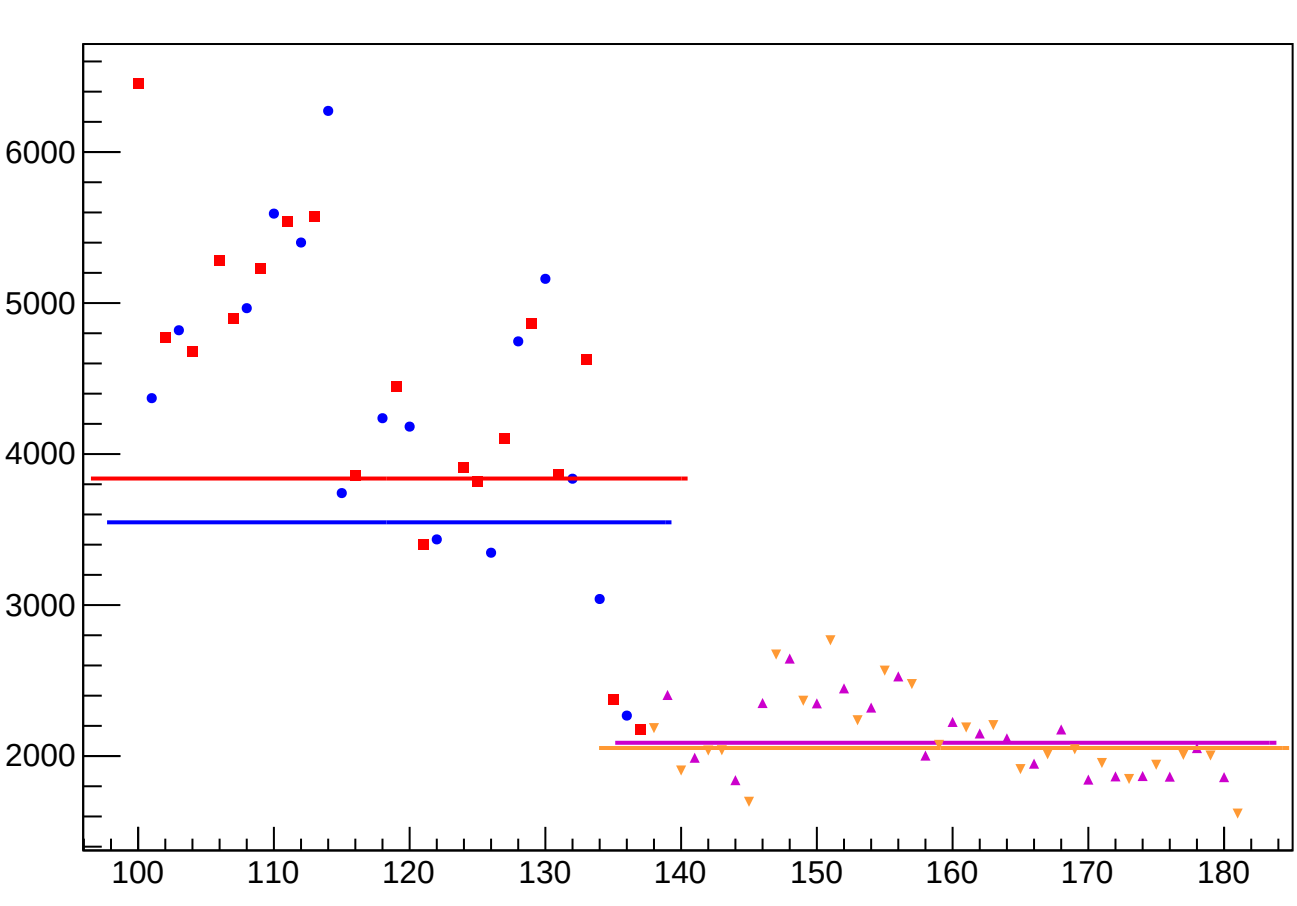
Left: -418.448+/-350.412 $\chi^2$/NDF: 74.7/43

Right: -1281.264+/-1004.718 $\chi^2$/NDF: 35.0/34

In: -208.261+/-476.066 $\chi^2$/NDF:53.3/36

Out: -795.829+/-460.170 $\chi^2$/NDF:56.3/41

All: -512.018+/-330.867 $\chi^2$/NDF: 110.4/78




Right In: 3547.966+/-0.979 $\chi^2$/NDF: 1258472.8/15

Left Out: 2053.433+/-0.343 $\chi^2$/NDF:613298.0/22

Right Out: 3837.965+/-1.033 $\chi^2$/NDF: 1155821.5/18

Left In: 2088.015+/-0.359 $\chi^2$/NDF:430209.3/20

Left: 2069.952+/-0.248 $\chi^2$/NDF: 1048367.5/43

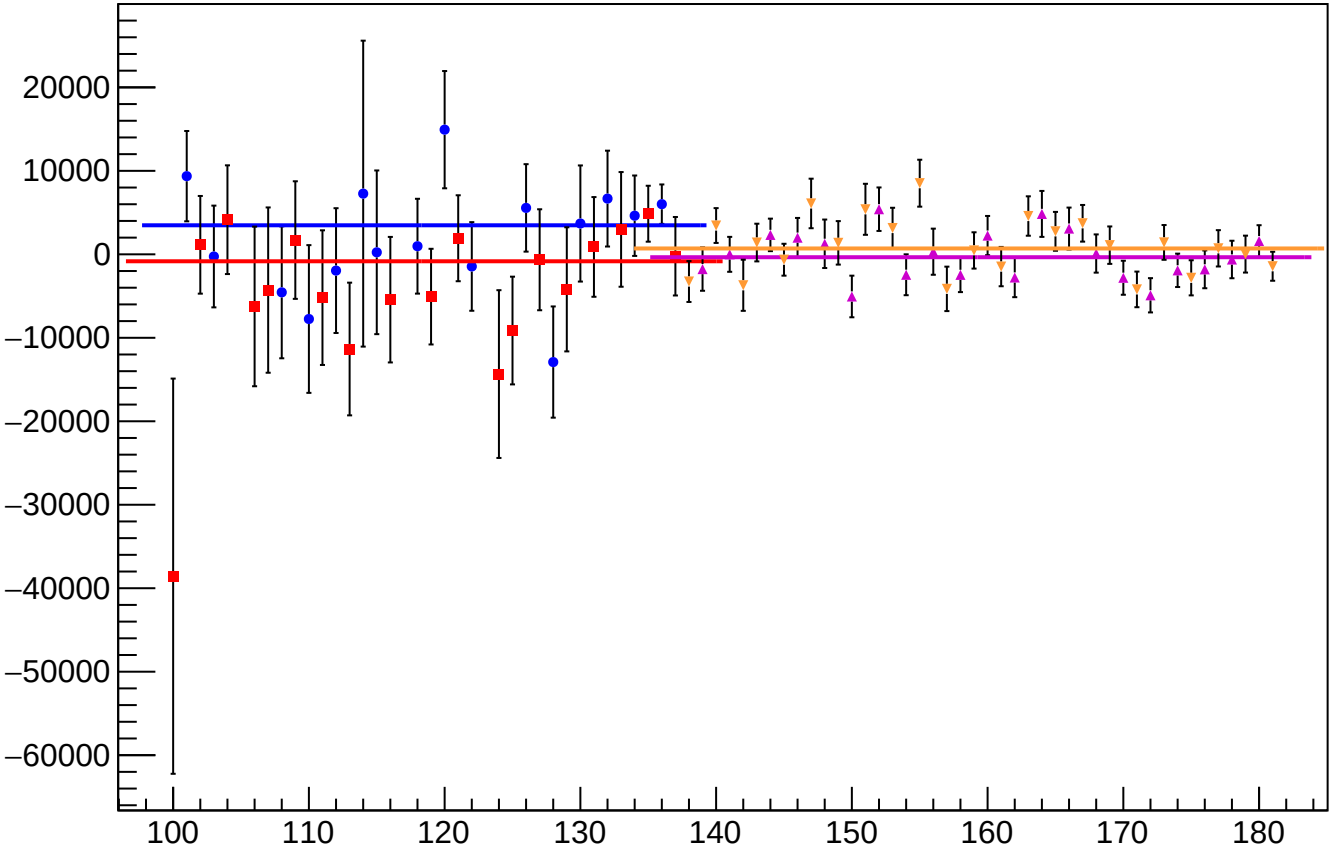
Right: 3685.164+/-0.710 $\chi^2$/NDF: 2455829.5/34

In: 2260.724+/-0.337 $\chi^2$/NDF:3650552.1/36

Out: 2230.535+/-0.325 $\chi^2$/NDF:4457864.8/41

All: 2245.117+/-0.234 $\chi^2$/NDF: 8112574.6/78

# asym_sam2_mean vs Slug, Sign Corrected




Right In: 3478.372+/-1360.356 $\chi^2$/NDF: 16.3/15

Left Out: 701.559+/-478.650 $\chi^2$/NDF:40.9/22

Right Out: -832.583+/-1449.649 $\chi^2$/NDF: 14.0/18

Left In: -347.073+/-498.820 $\chi^2$/NDF:30.0/20

Left: 198.872+/-345.367 $\chi^2$/NDF: 73.2/43

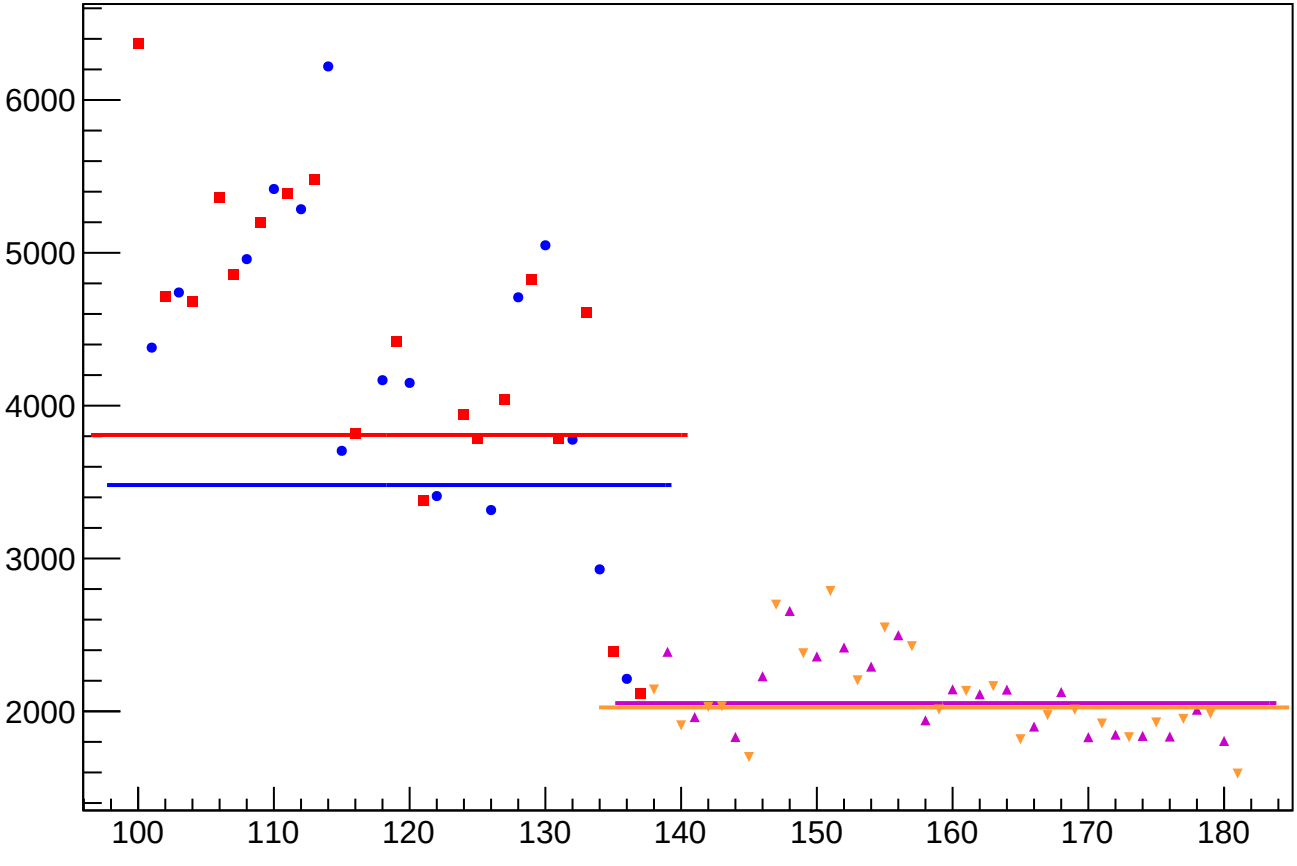
Right: 1459.744+/-991.983 $\chi^2$/NDF: 35.1/34

In: 106.322+/-468.328 $\chi^2$/NDF:53.3/36

Out: 550.747+/-454.515 $\chi^2$/NDF:55.9/41

All: 335.185+/-326.165 $\chi^2$/NDF: 109.6/78

# asym_sam2_rms vs Slug, Sign Corrected




Right In: 3480.559+/-0.962 $\chi^2$/NDF: 1296641.6/15

Left Out: 2025.399+/-0.338 $\chi^2$/NDF:640212.0/22

Right Out: 3808.151+/-1.025 $\chi^2$/NDF: 1147564.2/18

Left In: 2053.801+/-0.353 $\chi^2$/NDF:442541.9/20

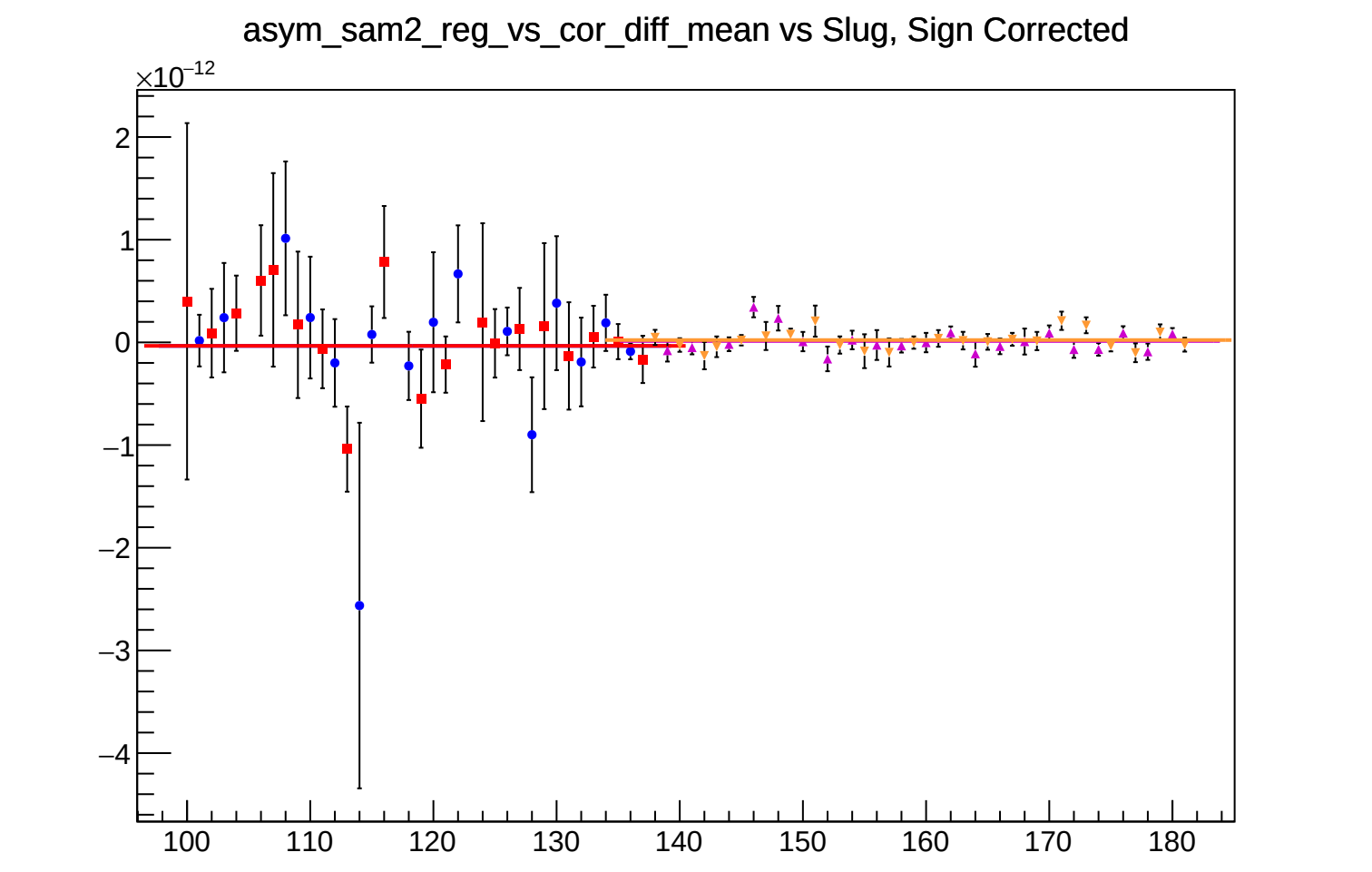
Left: 2039.015+/-0.244 $\chi^2$/NDF: 1086129.7/43

Right: 3633.956+/-0.701 $\chi^2$/NDF: 2498515.1/34

In: 2222.902+/-0.331 $\chi^2$/NDF:3678450.1/36

Out: 2200.651+/-0.321 $\chi^2$/NDF:4515160.8/41

All: 2211.444+/-0.231 $\chi^2$/NDF: 8195935.8/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:30.6/20

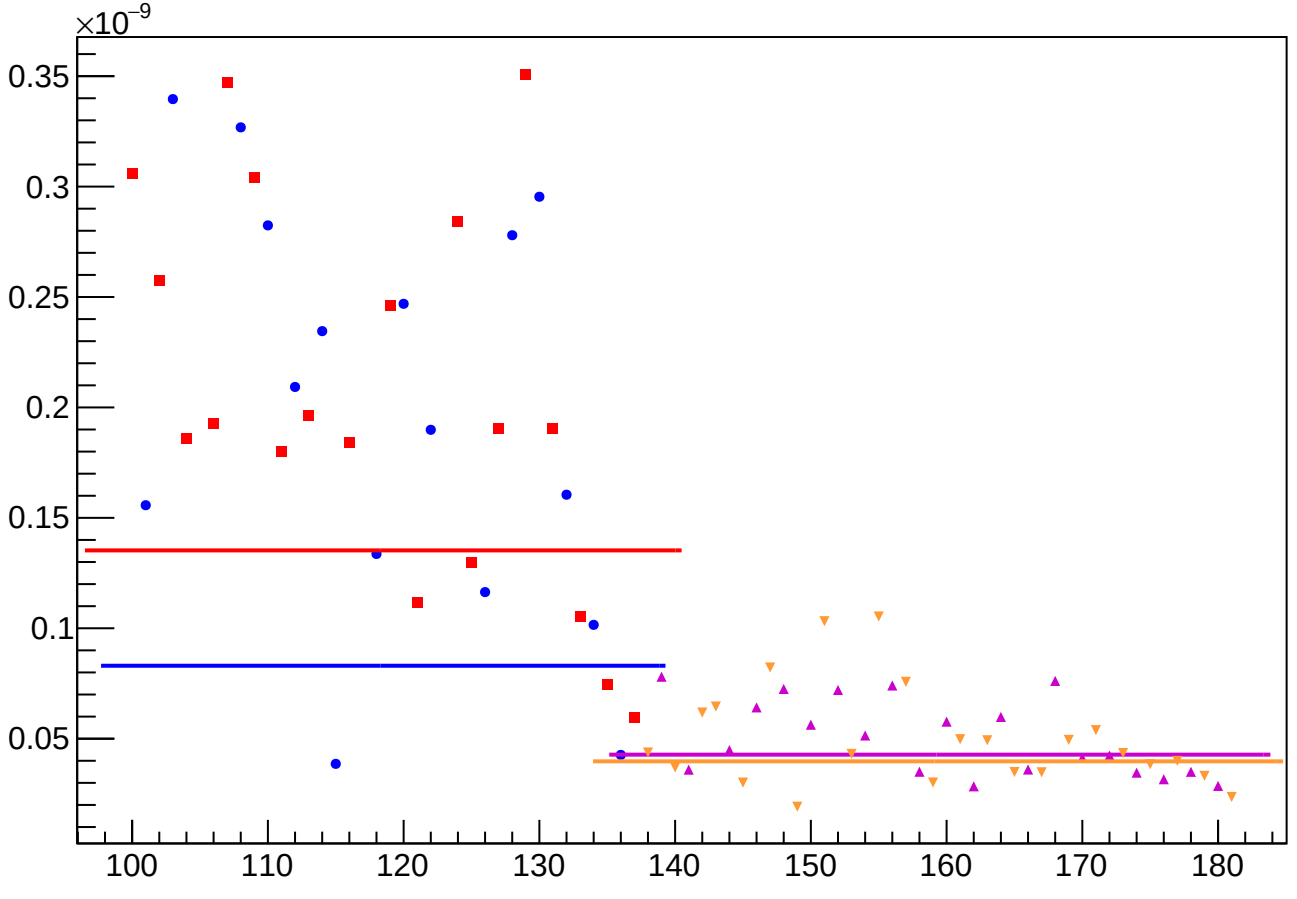
Left: 0.000+/-0.000 $\chi^2$/NDF: 49.7/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 25.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:43.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:32.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 76.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2702339.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1866626.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1401659.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1336522.7/20

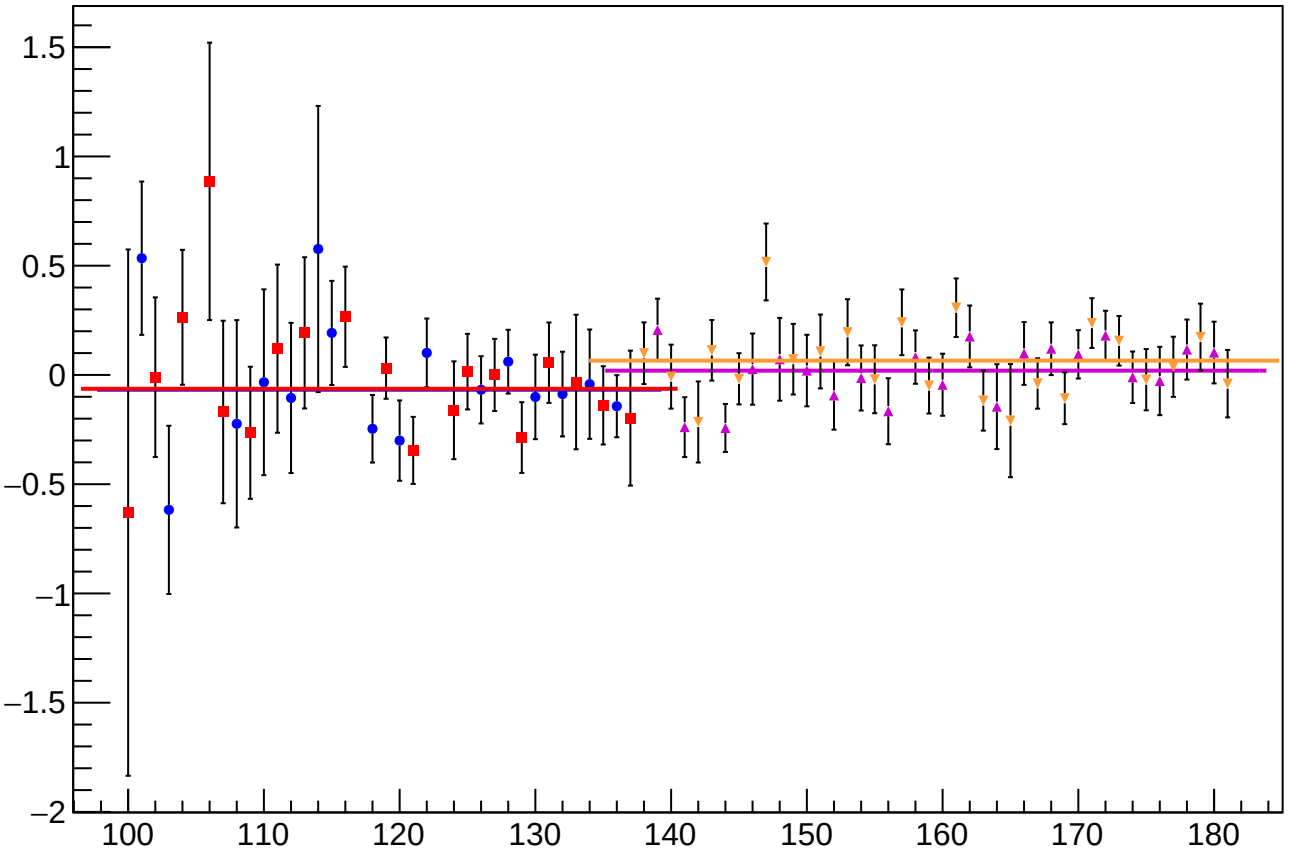
Left: 0.000+/-0.000 $\chi^2$/NDF: 3235391.8/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 4605860.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4852920.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5714612.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10597218.2/78




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.065+/-0.029 $\chi^2$/NDF:26.5/22

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: 0.020+/-0.030 $\chi^2$/NDF:20.0/20

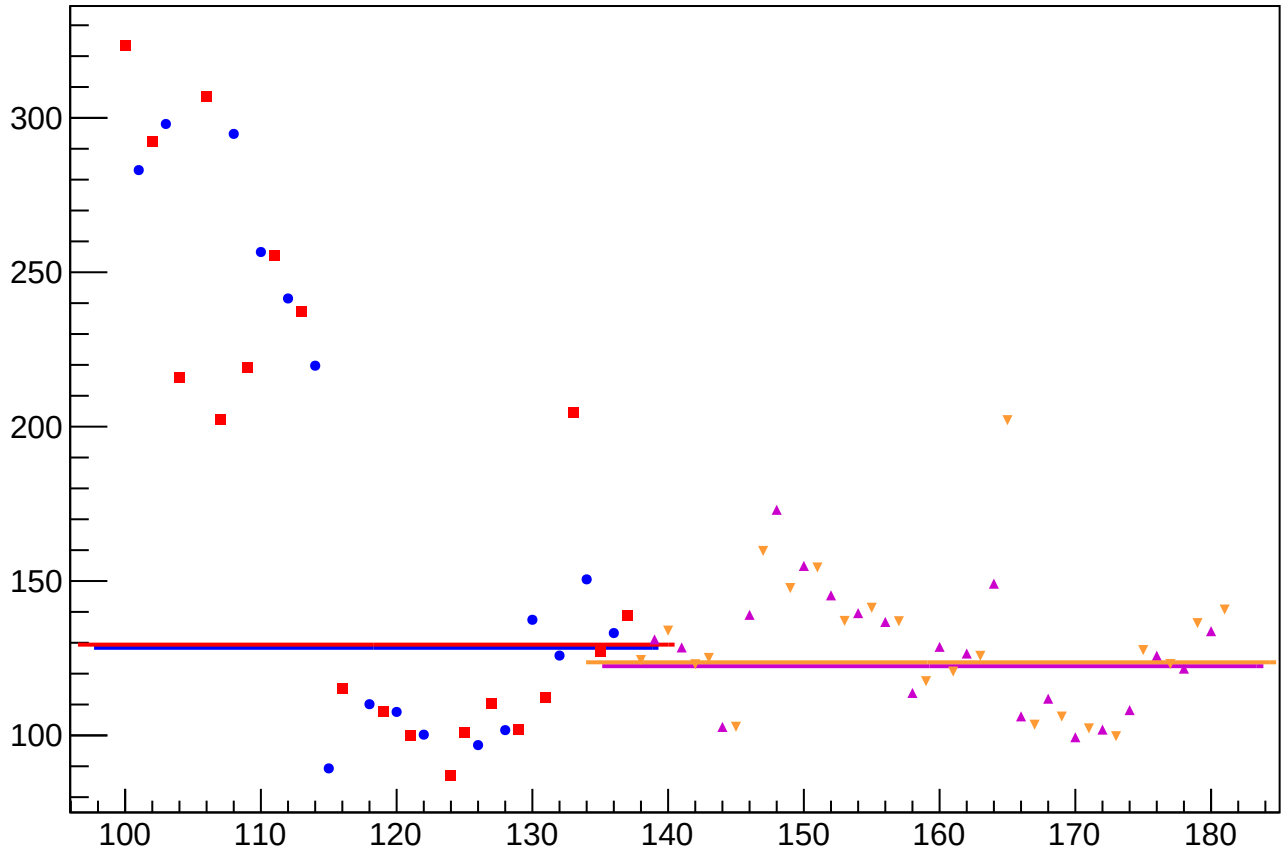
Left: 0.043+/-0.021 $\chi^2$/NDF: 47.7/43

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.002+/-0.026 $\chi^2$/NDF:34.6/36

Out: 0.034+/-0.026 $\chi^2$/NDF:45.2/41

All: 0.016+/-0.018 $\chi^2$/NDF: 80.8/78




Right In: 128.380+/-0.037 $\chi^2$/NDF: 1805078.6/15

Left Out: 123.676+/-0.021 $\chi^2$/NDF:819700.3/22

Right Out: 129.399+/-0.037 $\chi^2$/NDF: 1888271.6/18

Left In: 122.423+/-0.021 $\chi^2$/NDF:694722.1/20

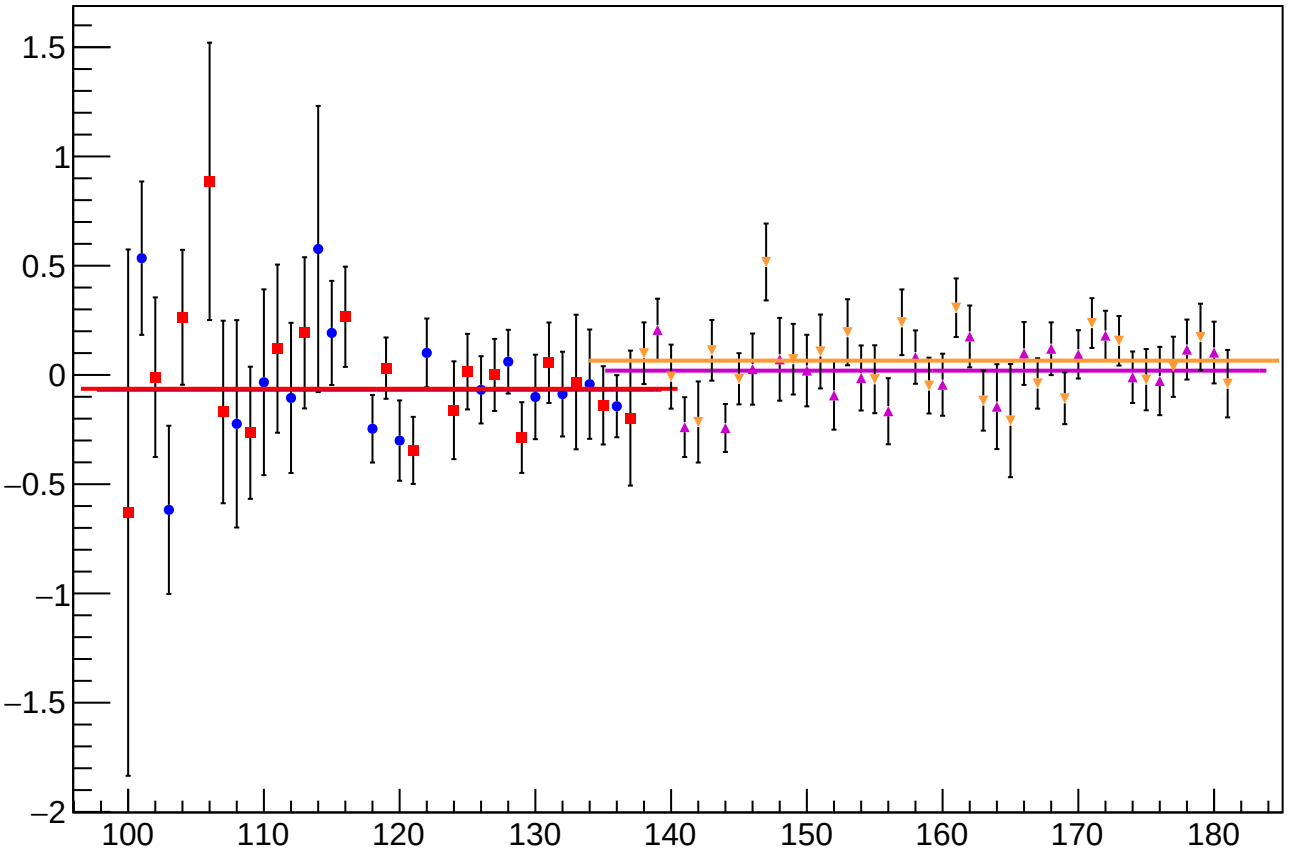
Left: 123.065+/-0.015 $\chi^2$/NDF: 1516197.8/43

Right: 128.891+/-0.026 $\chi^2$/NDF: 3693738.9/34

In: 123.928+/-0.018 $\chi^2$/NDF:2519589.0/36

Out: 125.074+/-0.018 $\chi^2$/NDF:2726548.3/41

All: 124.513+/-0.013 $\chi^2$/NDF: 5248115.6/78




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.065+/-0.029 $\chi^2$/NDF:26.5/22

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: 0.020+/-0.030 $\chi^2$/NDF:20.0/20

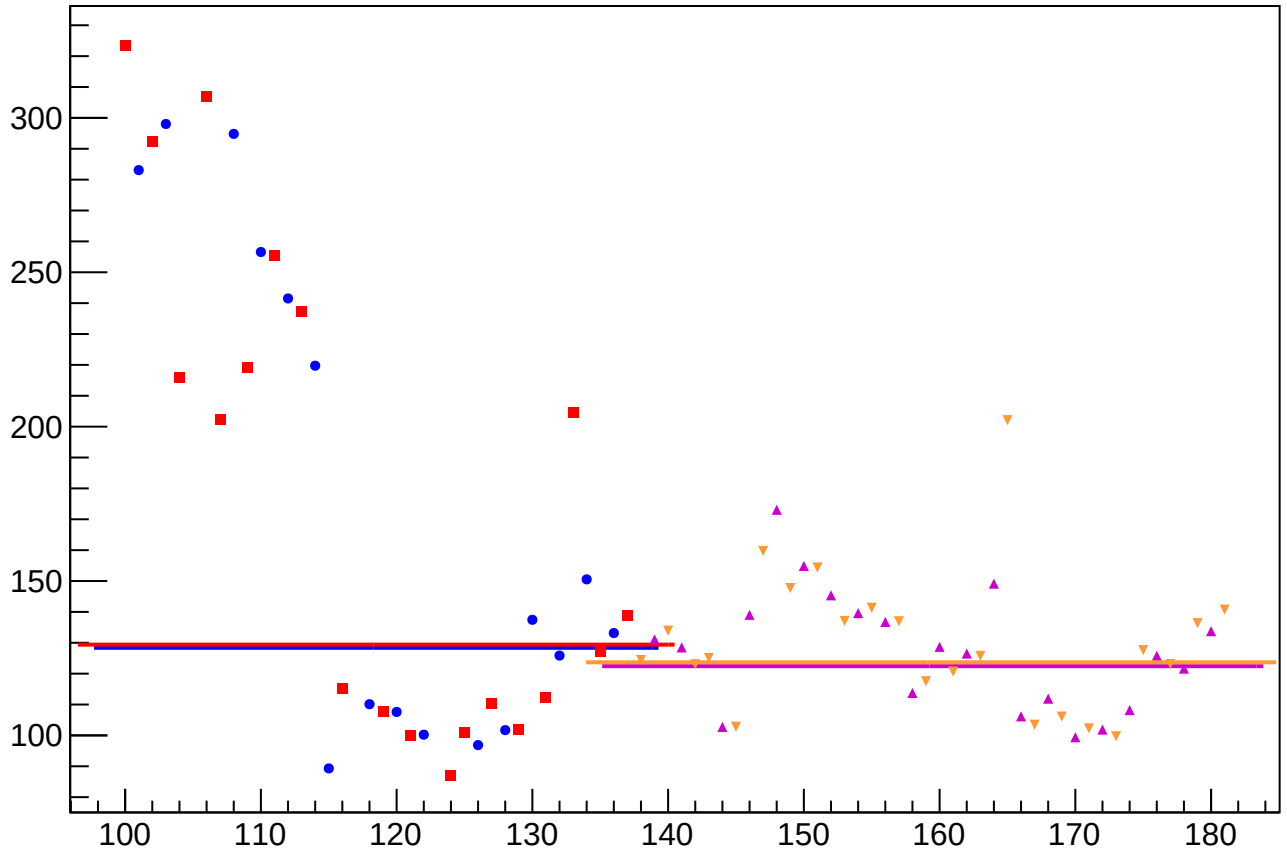
Left: 0.043+/-0.021 $\chi^2$/NDF: 47.7/43

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.002+/-0.026 $\chi^2$/NDF:34.6/36

Out: 0.034+/-0.026 $\chi^2$/NDF:45.2/41

All: 0.016+/-0.018 $\chi^2$/NDF: 80.8/78




Right In: 128.380+/-0.037 $\chi^2$/NDF: 1805078.6/15

Left Out: 123.676+/-0.021 $\chi^2$/NDF:819700.3/22

Right Out: 129.399+/-0.037 $\chi^2$/NDF: 1888271.6/18

Left In: 122.423+/-0.021 $\chi^2$/NDF:694722.1/20

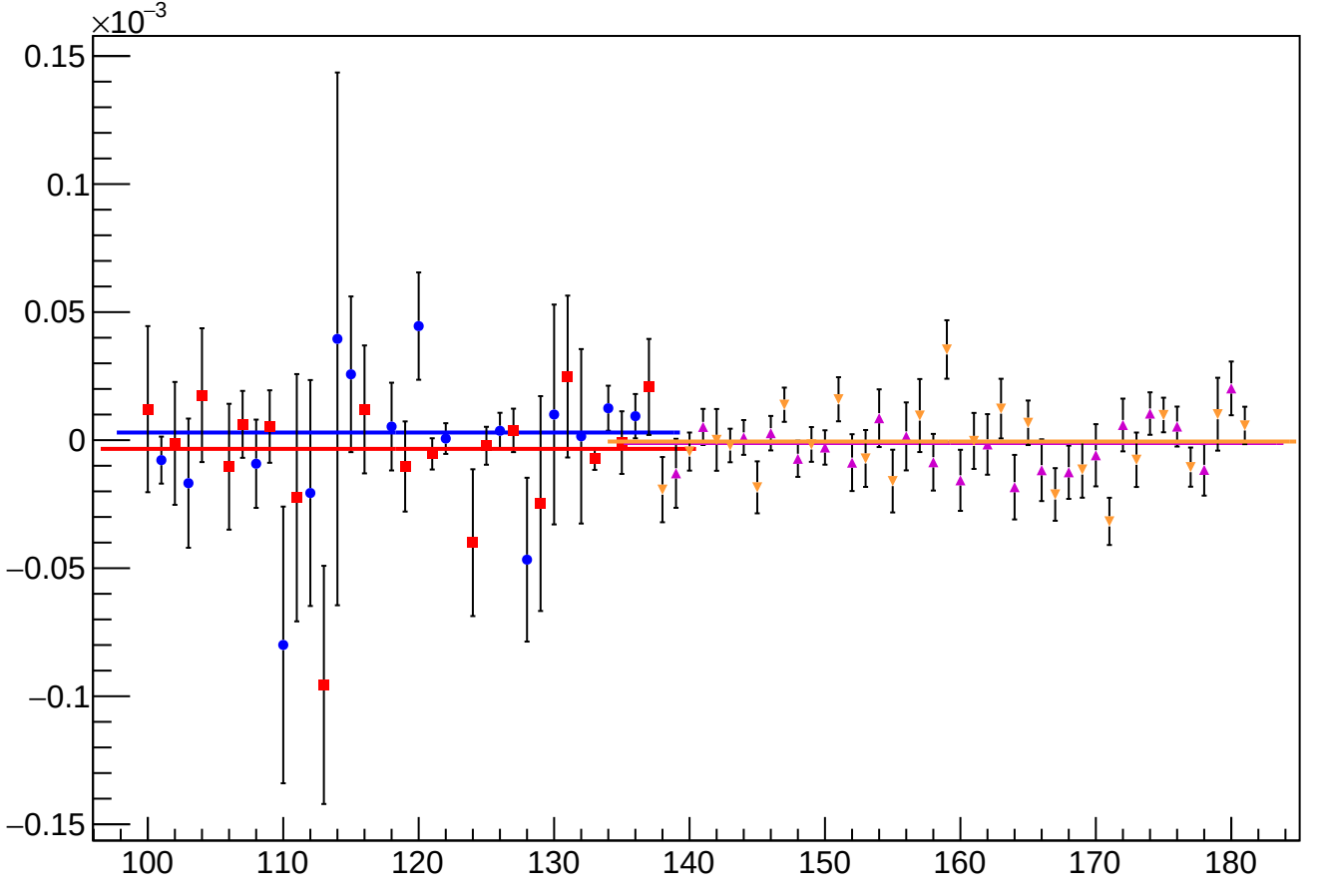
Left: 123.065+/-0.015 $\chi^2$/NDF: 1516197.8/43

Right: 128.891+/-0.026 $\chi^2$/NDF: 3693738.9/34

In: 123.928+/-0.018 $\chi^2$/NDF:2519589.0/36

Out: 125.074+/-0.018 $\chi^2$/NDF:2726548.3/41

All: 124.513+/-0.013 $\chi^2$/NDF: 5248115.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:50.5/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.3/20

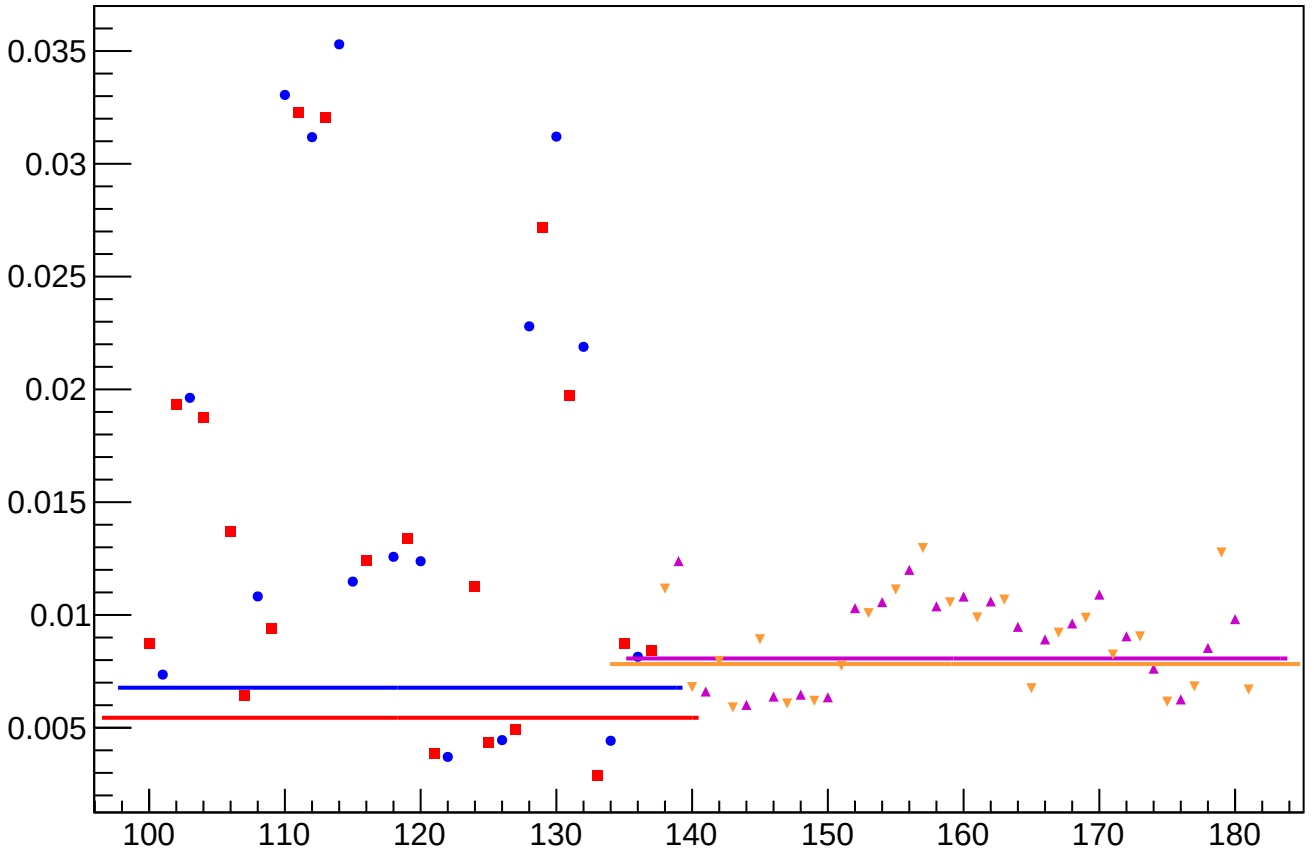
Left: -0.000+/-0.000 $\chi^2$/NDF: 68.9/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 29.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:33.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:63.9/41

All: -0.000+/-0.000 $\chi^2$/NDF: 98.0/78




Right In: 0.007+/-0.000 $\chi^2$/NDF: 4772275.3/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:2031058.8/22

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 5572364.1/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:1855053.8/20

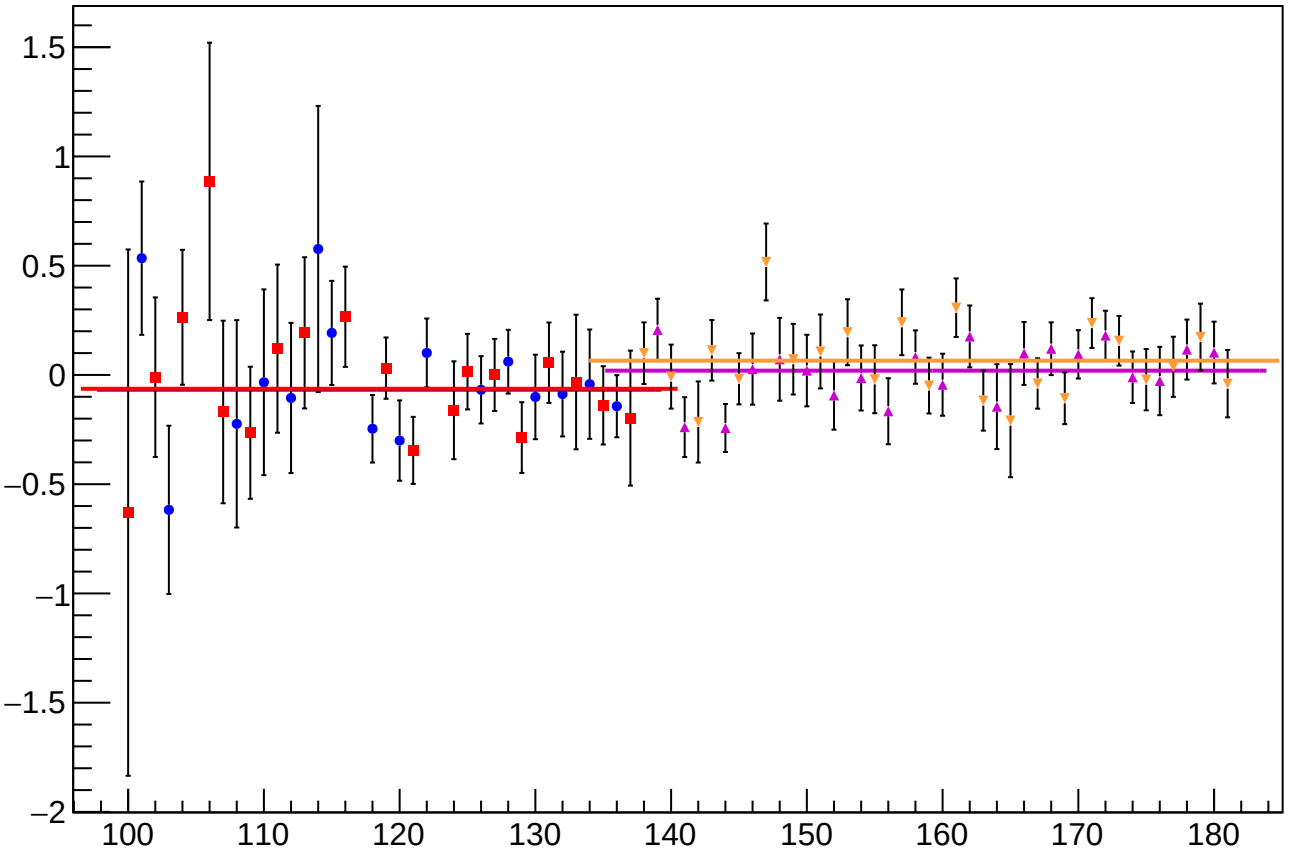
Left: 0.008+/-0.000 $\chi^2$/NDF: 3902077.1/43

Right: 0.006+/-0.000 $\chi^2$/NDF: 10558524.8/34

In: 0.008+/-0.000 $\chi^2$/NDF:6868067.7/36

Out: 0.007+/-0.000 $\chi^2$/NDF:8702981.6/41

All: 0.007+/-0.000 $\chi^2$/NDF: 15755441.6/78




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.065+/-0.029 $\chi^2$/NDF:26.5/22

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: 0.020+/-0.030 $\chi^2$/NDF:20.0/20

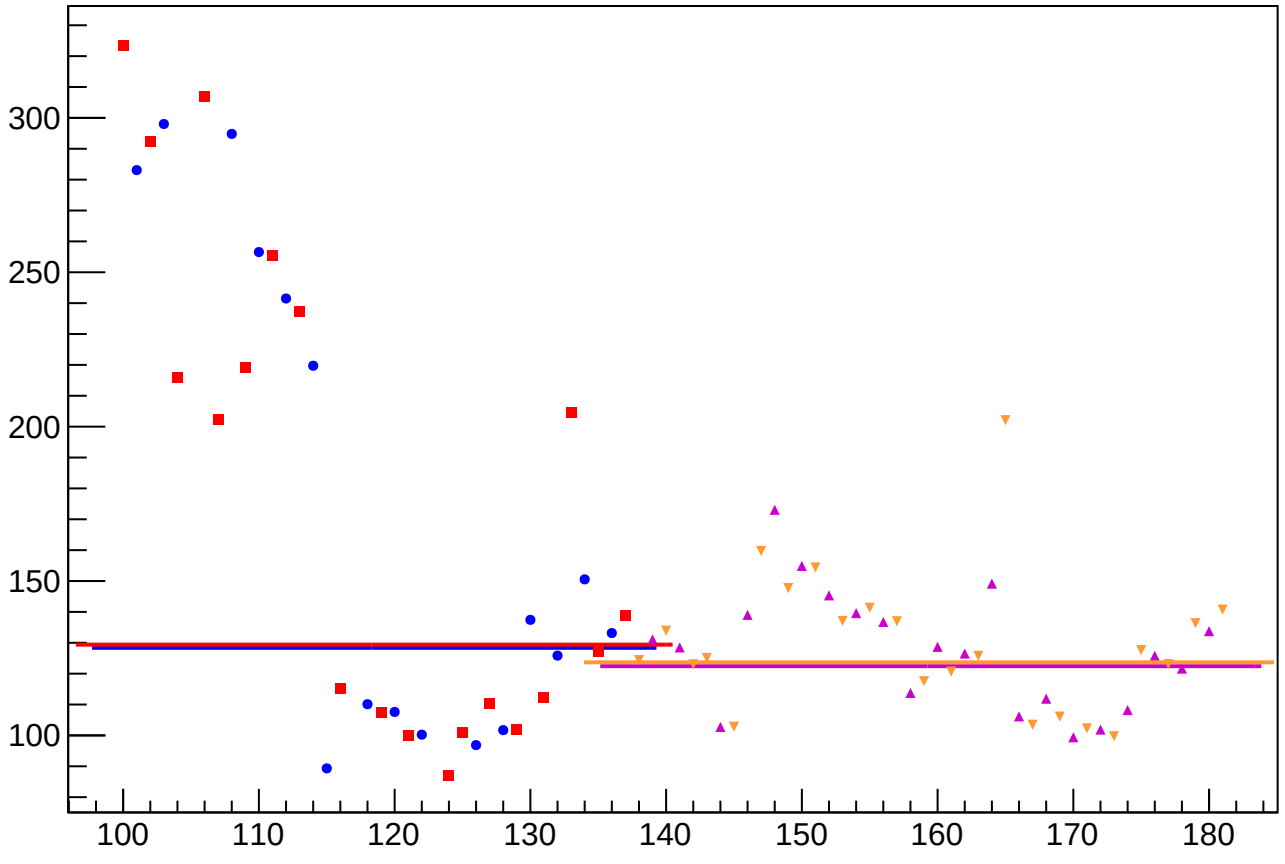
Left: 0.043+/-0.021 $\chi^2$/NDF: 47.7/43

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.002+/-0.026 $\chi^2$/NDF:34.6/36

Out: 0.034+/-0.026 $\chi^2$/NDF:45.2/41

All: 0.016+/-0.018 $\chi^2$/NDF: 80.8/78




Right In: 128.377+/-0.037 $\chi^2$/NDF: 1805026.7/15

Left Out: 123.676+/-0.021 $\chi^2$/NDF:819751.6/22

Right Out: 129.396+/-0.036 $\chi^2$/NDF: 1888272.8/18

Left In: 122.423+/-0.021 $\chi^2$/NDF:694750.9/20

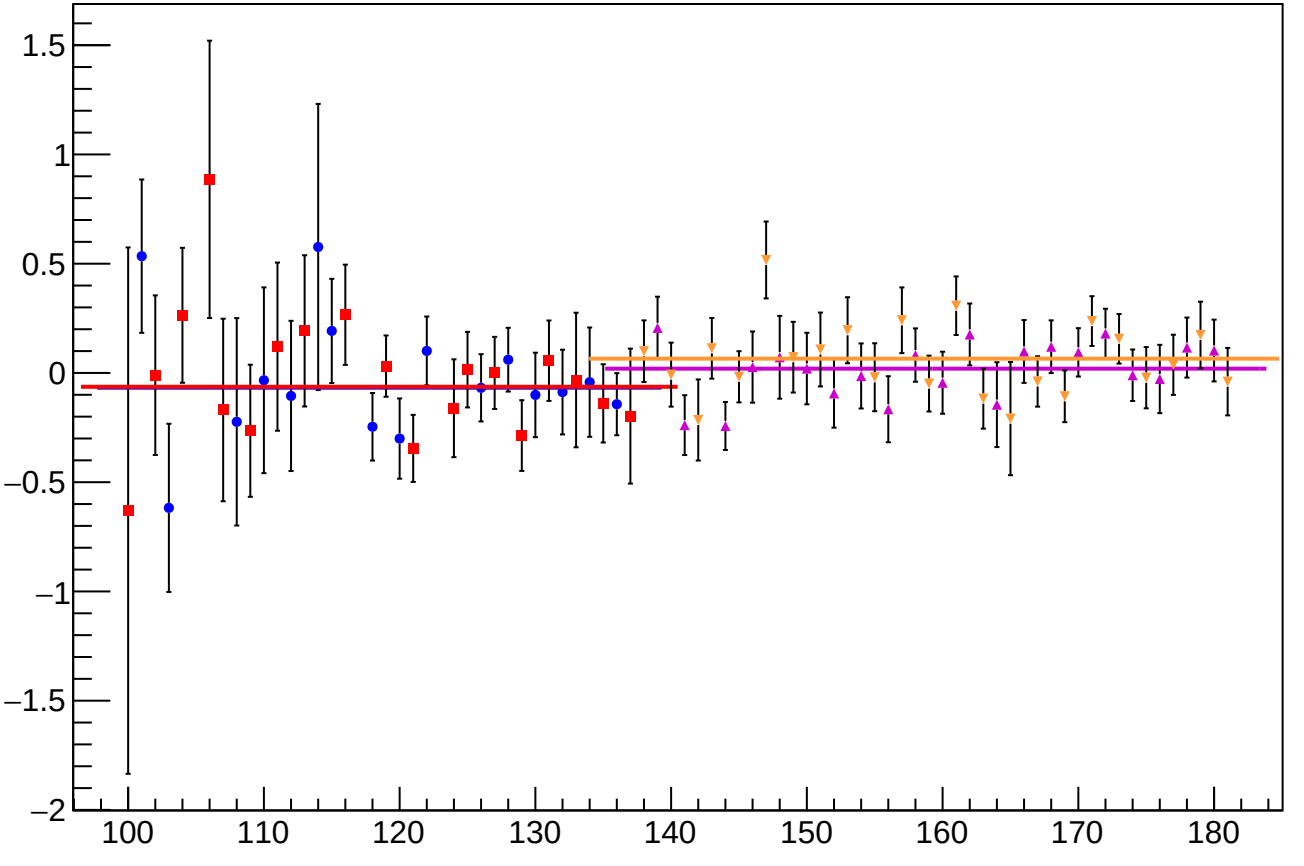
Left: 123.065+/-0.015 $\chi^2$/NDF: 1516278.0/43

Right: 128.888+/-0.026 $\chi^2$/NDF: 3693688.1/34

In: 123.927+/-0.018 $\chi^2$/NDF:2519547.8/36

Out: 125.074+/-0.018 $\chi^2$/NDF:2726581.9/41

All: 124.512+/-0.013 $\chi^2$/NDF: 5248108.1/78




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.065+/-0.029 $\chi^2$/NDF:26.5/22

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: 0.020+/-0.030 $\chi^2$/NDF:20.0/20

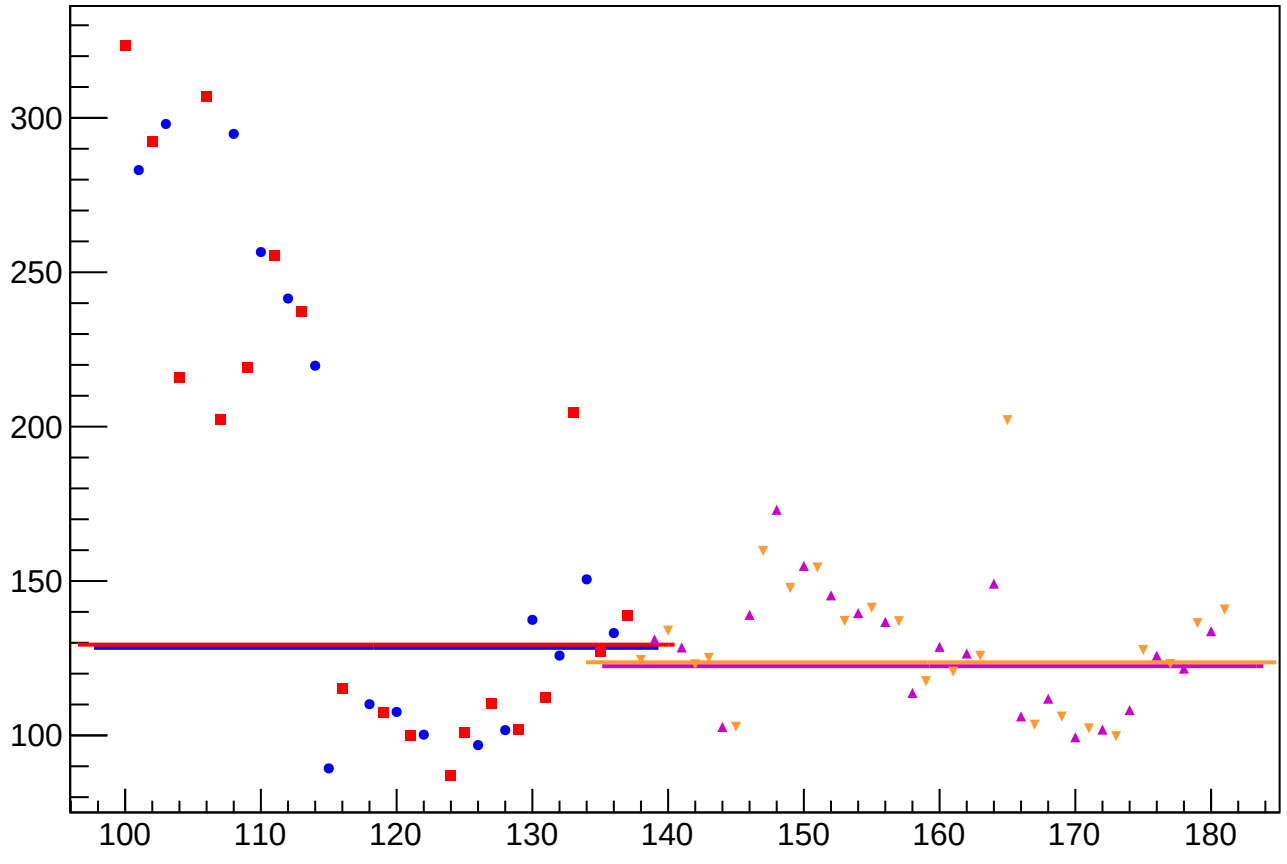
Left: 0.043+/-0.021 $\chi^2$/NDF: 47.7/43

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.002+/-0.026 $\chi^2$/NDF:34.6/36

Out: 0.034+/-0.026 $\chi^2$/NDF:45.2/41

All: 0.016+/-0.018 $\chi^2$/NDF: 80.8/78




Right In: 128.377+/-0.037 $\chi^2$/NDF: 1805026.7/15

Left Out: 123.676+/-0.021 $\chi^2$/NDF:819751.6/22

Right Out: 129.396+/-0.036 $\chi^2$/NDF: 1888272.8/18

Left In: 122.423+/-0.021 $\chi^2$/NDF:694750.9/20

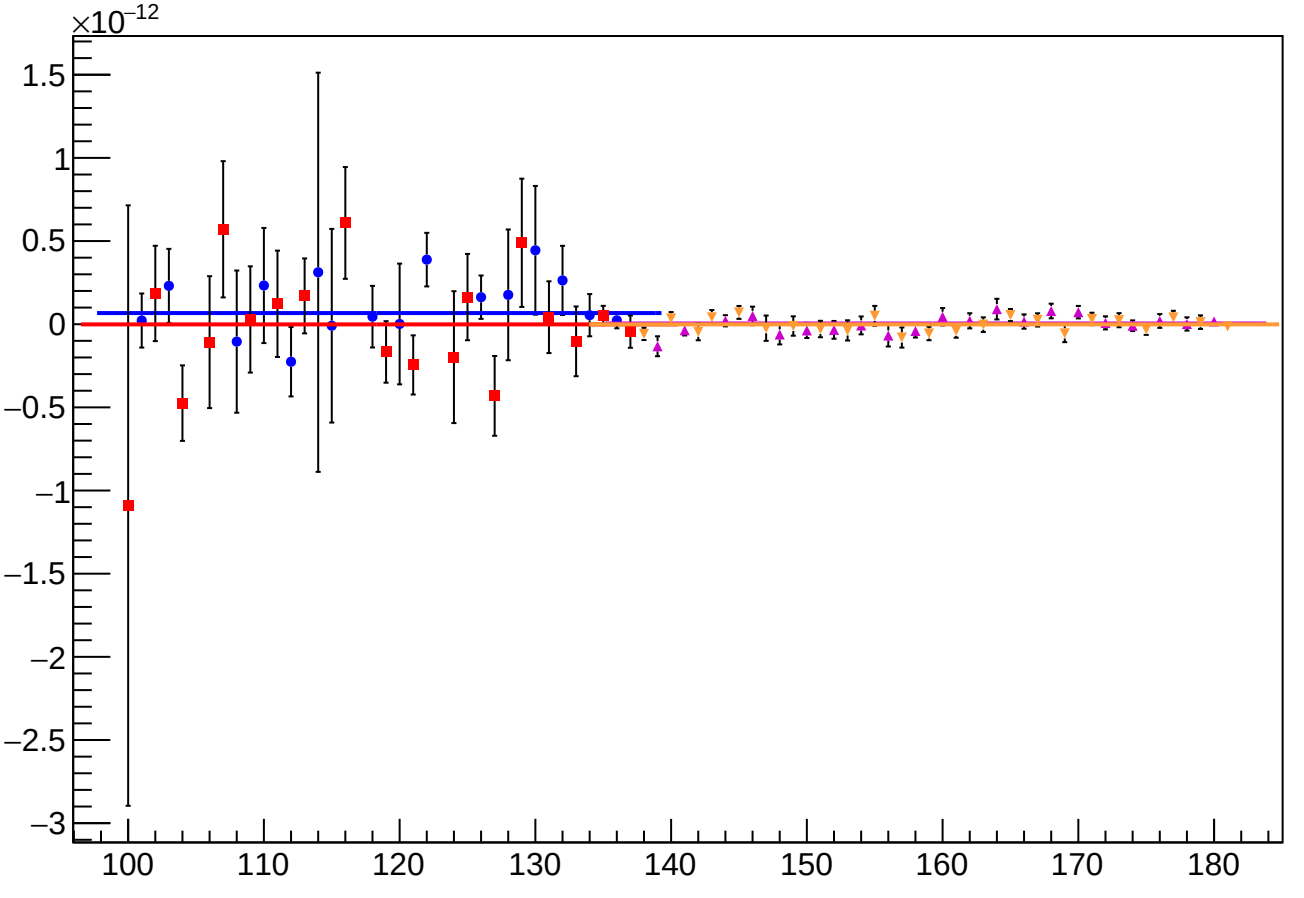
Left: 123.065+/-0.015 $\chi^2$/NDF: 1516278.0/43

Right: 128.888+/-0.026 $\chi^2$/NDF: 3693688.1/34

In: 123.927+/-0.018 $\chi^2$/NDF:2519547.8/36

Out: 125.074+/-0.018 $\chi^2$/NDF:2726581.9/41

All: 124.512+/-0.013 $\chi^2$/NDF: 5248108.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.6/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:22.3/20

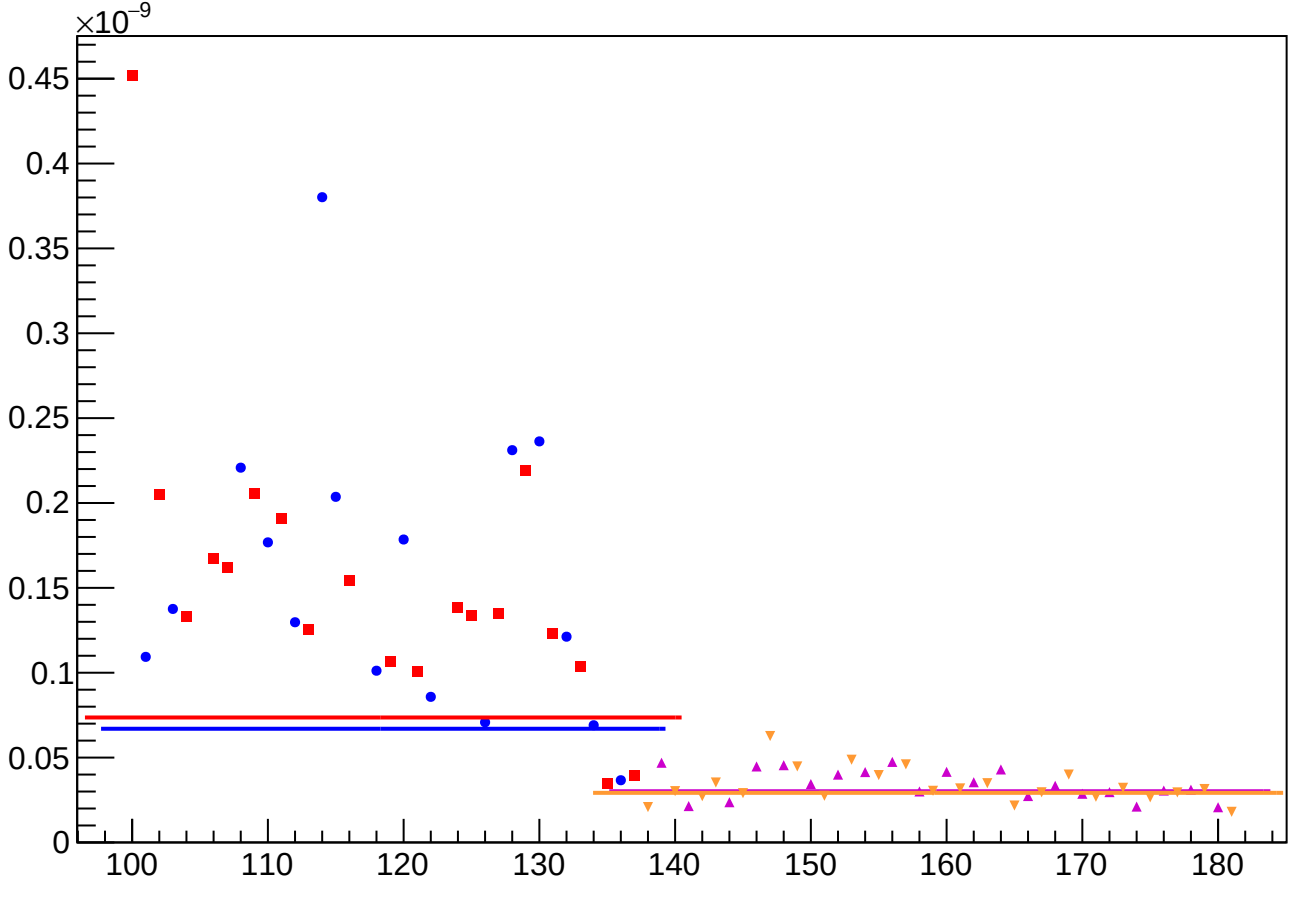
Left: 0.000+/-0.000 $\chi^2$/NDF: 44.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 32.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:35.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:42.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 78.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3180725.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1832702.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3653663.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1603818.9/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3447784.6/43

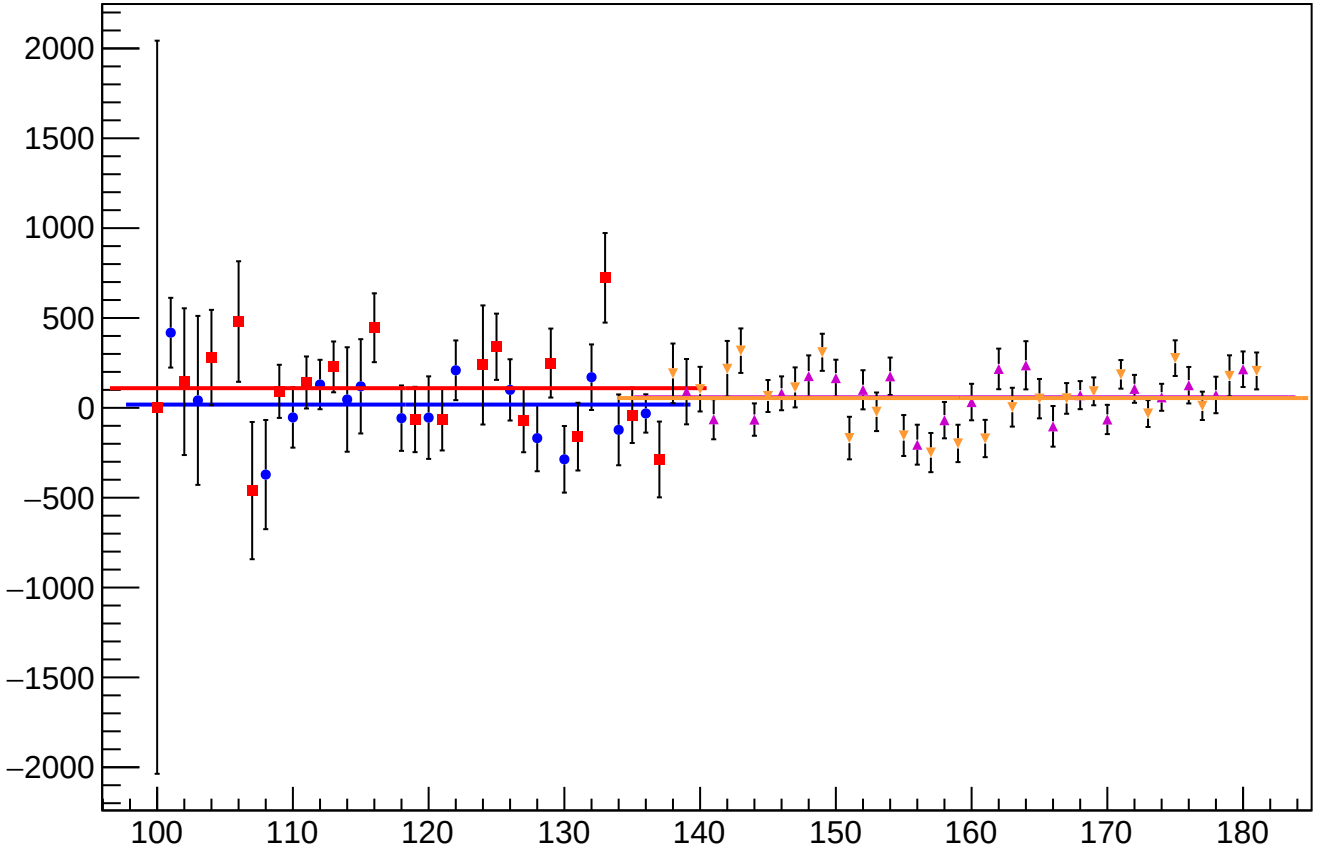
Right: 0.000+/-0.000 $\chi^2$/NDF: 6865290.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:6737218.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7911911.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 14666614.9/78

# reg_asym_sam3_mean vs Slug, Sign Corrected




Right In: 18.204+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 54.395+/-21.060 $\chi^2$/NDF:51.7/22

Right Out: 109.432+/-45.825 $\chi^2$/NDF: 25.5/18

Left In: 58.631+/-21.638 $\chi^2$/NDF:25.4/20

Left: 56.455+/-15.092 $\chi^2$/NDF: 77.2/43

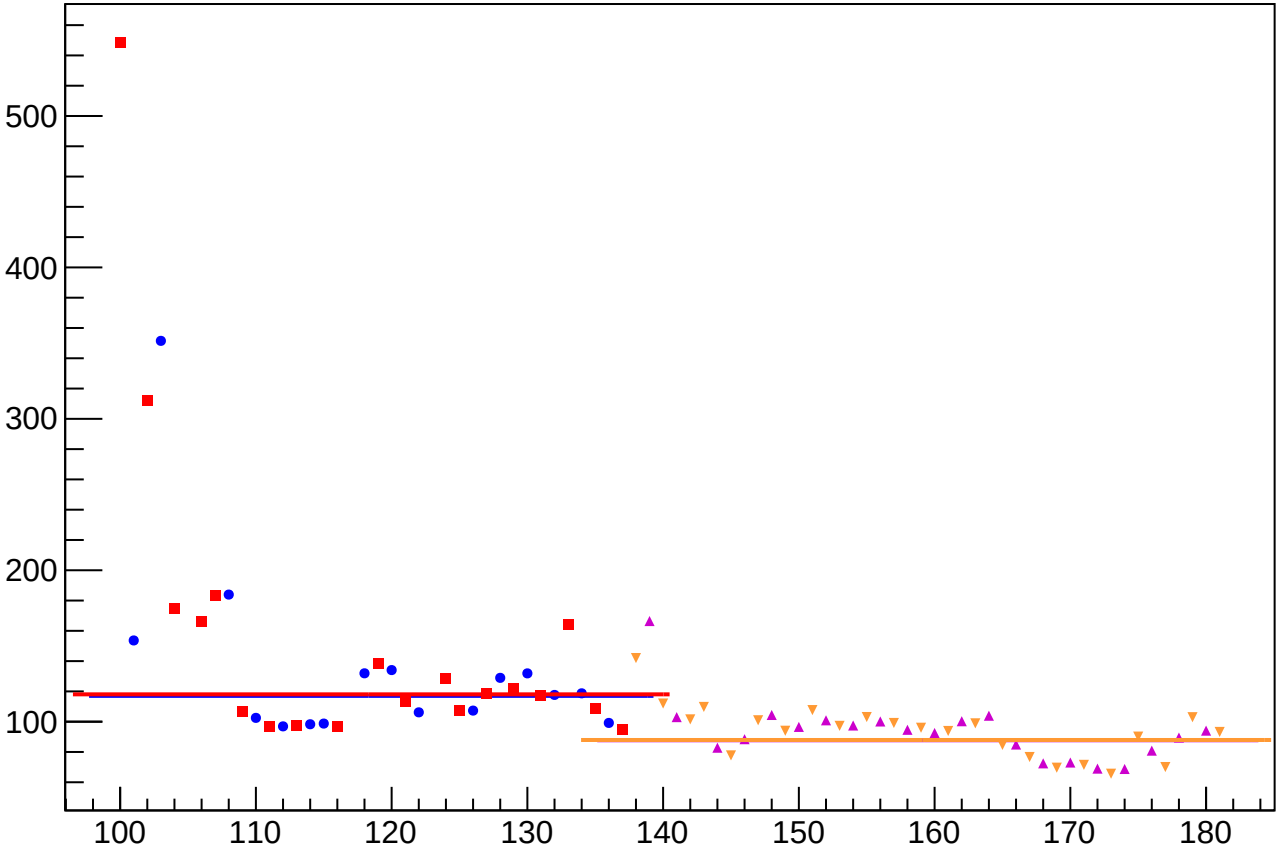
Right: 63.698+/-32.360 $\chi^2$/NDF: 41.3/34

In: 51.229+/-19.557 $\chi^2$/NDF:39.9/36

Out: 63.993+/-19.136 $\chi^2$/NDF:78.4/41

All: 57.749+/-13.678 $\chi^2$/NDF: 118.5/78

# reg_asym_sam3_rms vs Slug, Sign Corrected




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858400.8/15

Left Out: 87.915+/-0.015 $\chi^2$/NDF:1145628.2/22

Right Out: 118.057+/-0.032 $\chi^2$/NDF: 990748.0/18

Left In: 87.728+/-0.015 $\chi^2$/NDF:1019973.2/20

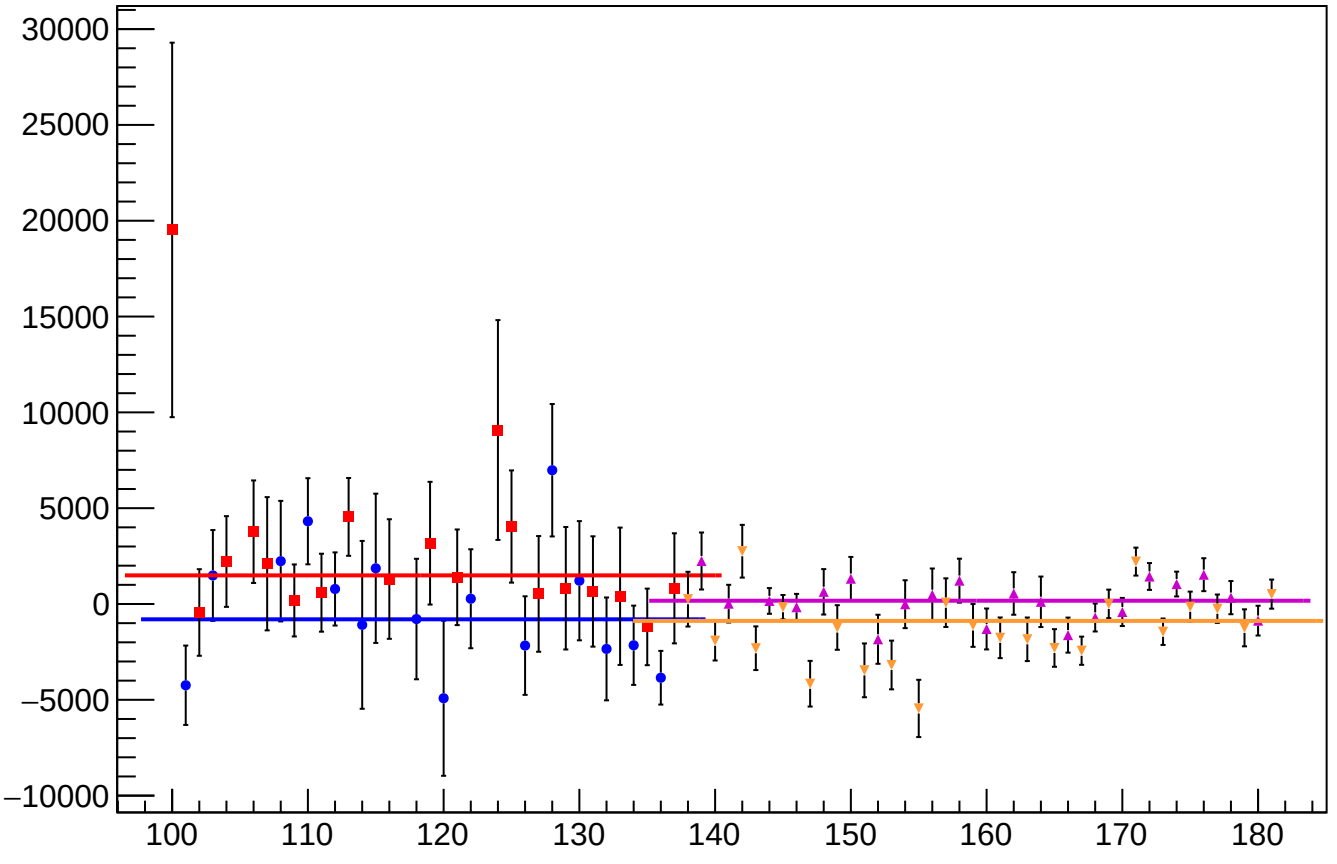
Left: 87.824+/-0.011 $\chi^2$/NDF: 2165677.9/43

Right: 117.559+/-0.023 $\chi^2$/NDF: 1849621.4/34

In: 93.099+/-0.014 $\chi^2$/NDF:2551413.2/36

Out: 93.171+/-0.014 $\chi^2$/NDF:2850819.0/41

All: 93.136+/-0.010 $\chi^2$/NDF: 5402246.1/78




Right In: -799.133+/-616.009 $\chi^2$/NDF: 23.4/15

Left Out: -882.117+/-195.251 $\chi^2$/NDF:68.9/22

Right Out: 1493.897+/-613.097 $\chi^2$/NDF: 12.9/18

Left In: 170.441+/-196.898 $\chi^2$/NDF:24.1/20

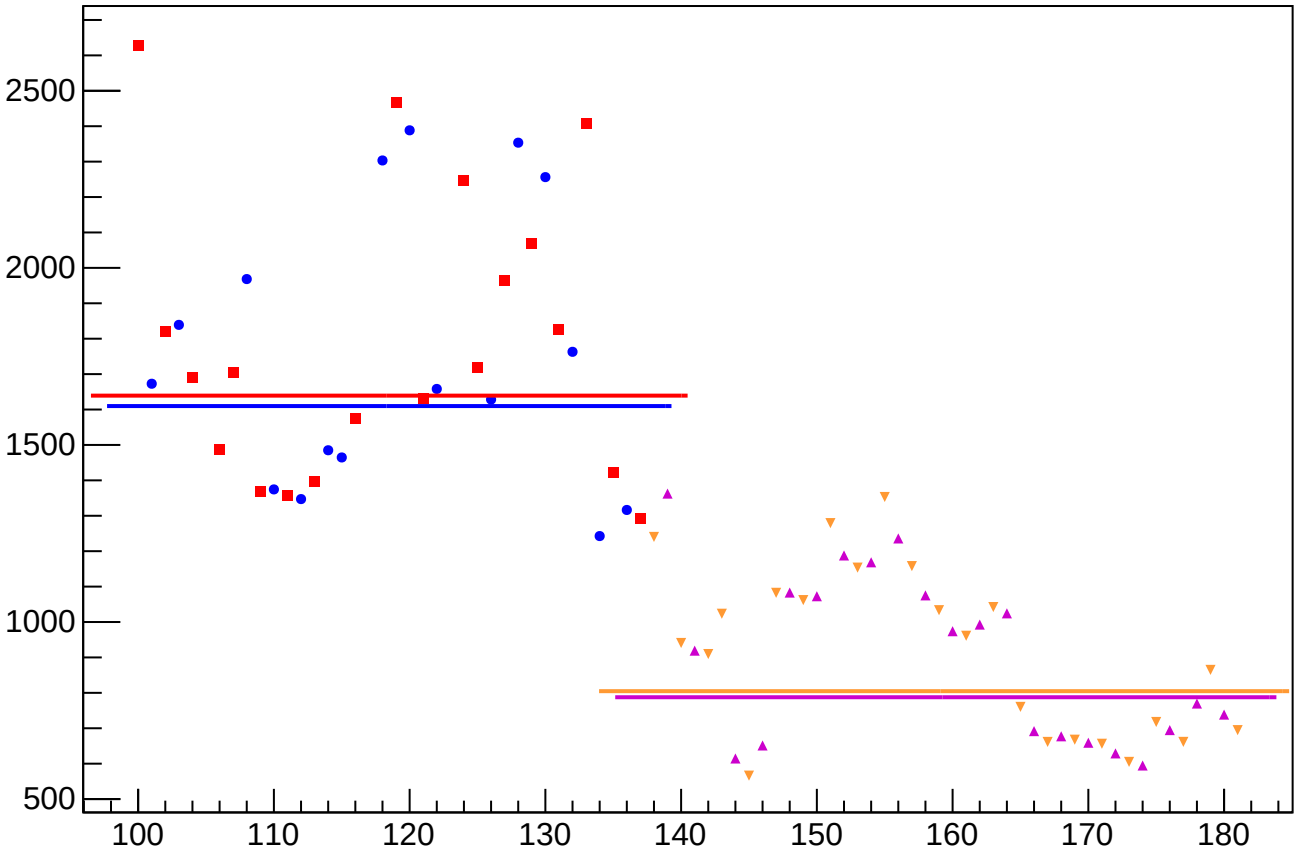
Left: -360.259+/-138.642 $\chi^2$/NDF: 107.4/43

Right: 352.815+/-434.551 $\chi^2$/NDF: 43.3/34

In: 80.565+/-187.550 $\chi^2$/NDF:49.8/36

Out: -663.329+/-186.044 $\chi^2$/NDF:95.4/41

All: -294.381+/-132.082 $\chi^2$/NDF: 153.2/78




Right In: 1609.782+/-0.436 $\chi^2$/NDF: 619129.2/15

Left Out: 804.714+/-0.138 $\chi^2$/NDF:2359833.5/22

Right Out: 1639.241+/-0.434 $\chi^2$/NDF: 520182.2/18

Left In: 787.575+/-0.139 $\chi^2$/NDF:2152664.7/20

Left: 796.217+/-0.098 $\chi^2$/NDF: 4520139.0/43

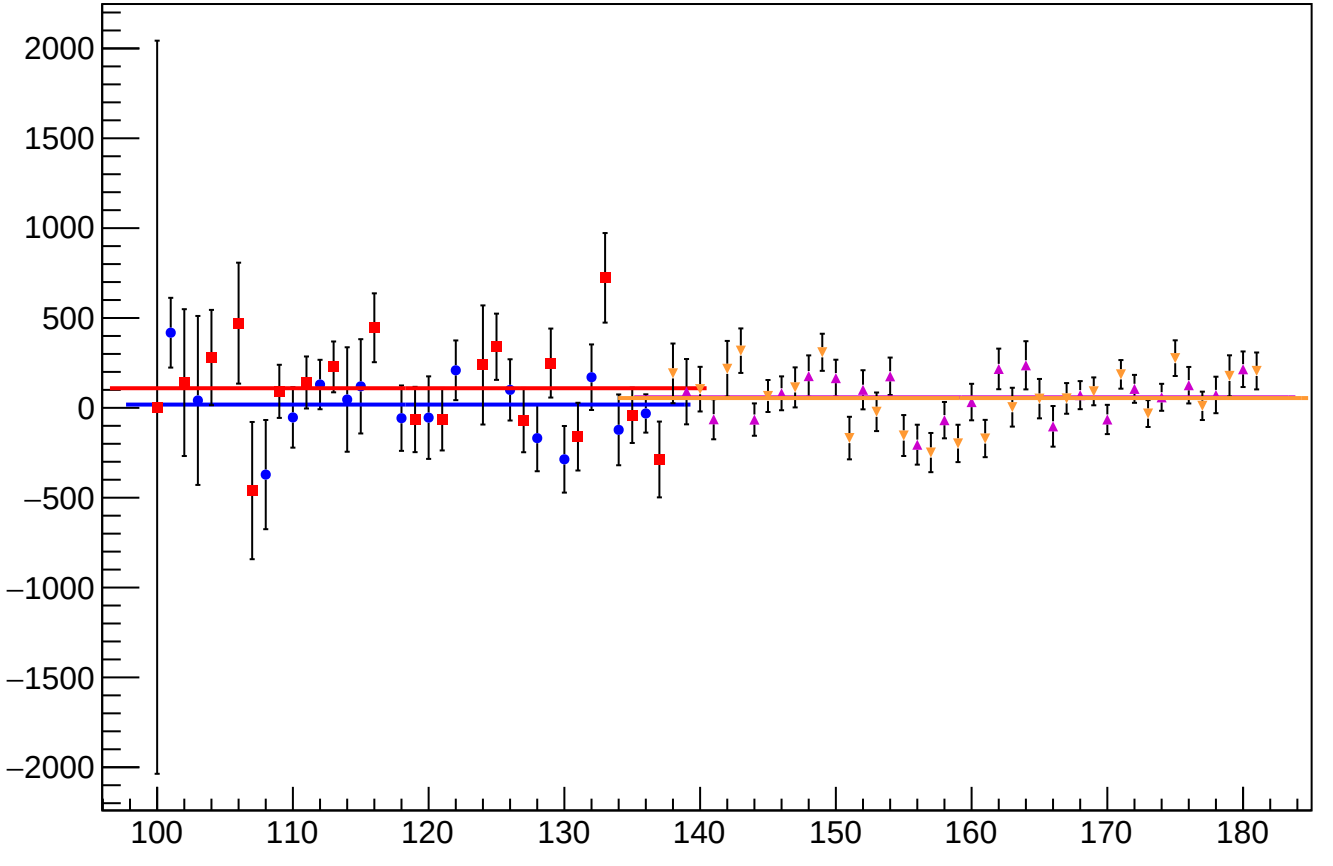
Right: 1624.581+/-0.307 $\chi^2$/NDF: 1141609.2/34

In: 863.790+/-0.133 $\chi^2$/NDF:6004530.1/36

Out: 881.559+/-0.132 $\chi^2$/NDF:6244345.8/41

All: 872.747+/-0.093 $\chi^2$/NDF: 12257924.4/78

# cor_asym_sam3_mean vs Slug, Sign Corrected




Right In: 18.191+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 54.399+/-21.060 $\chi^2$/NDF:51.7/22

Right Out: 109.151+/-45.828 $\chi^2$/NDF: 25.4/18

Left In: 58.633+/-21.638 $\chi^2$/NDF:25.4/20

Left: 56.458+/-15.092 $\chi^2$/NDF: 77.2/43

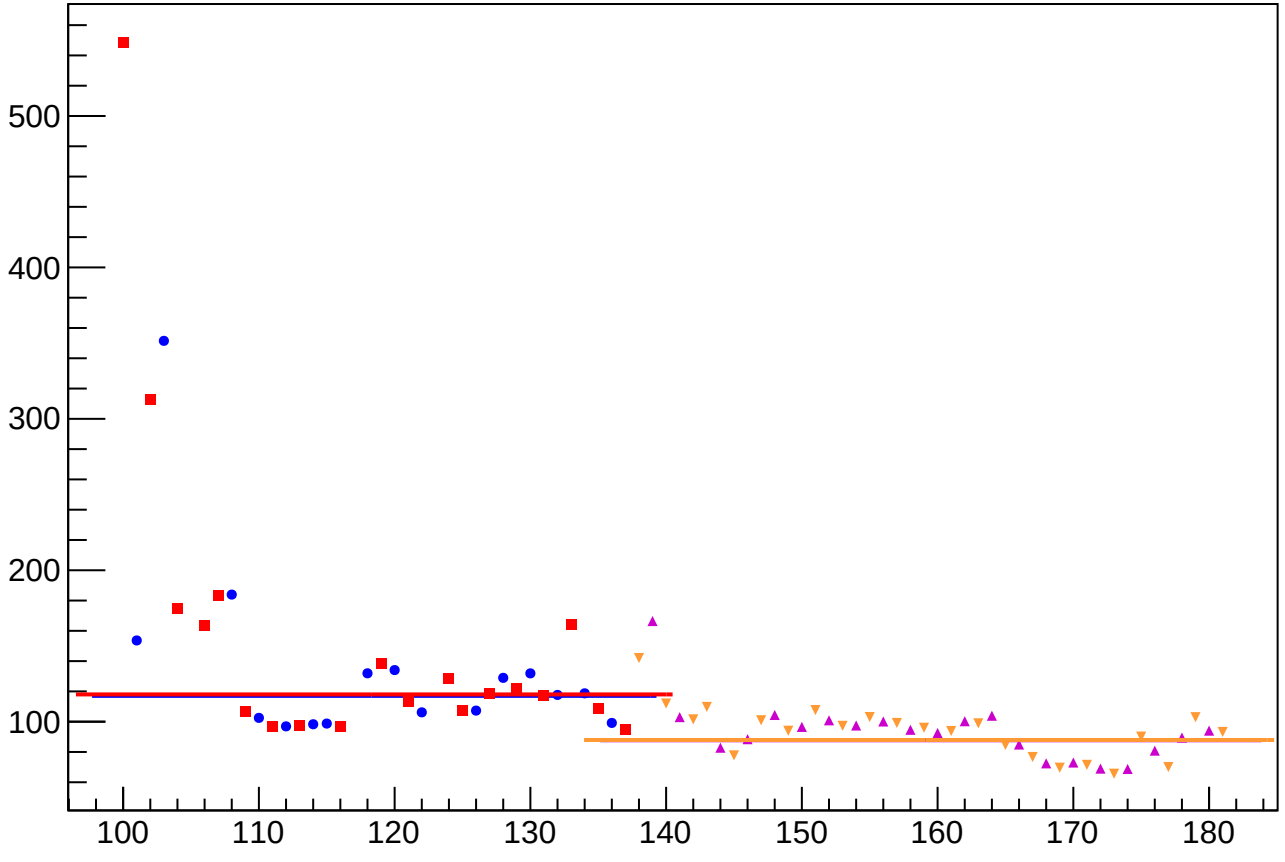
Right: 63.548+/-32.361 $\chi^2$/NDF: 41.2/34

In: 51.228+/-19.557 $\chi^2$/NDF:39.9/36

Out: 63.946+/-19.136 $\chi^2$/NDF:78.3/41

All: 57.725+/-13.678 $\chi^2$/NDF: 118.4/78

# cor_asym_sam3_rms vs Slug, Sign Corrected




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858402.8/15

Left Out: 87.915+/-0.015 $\chi^2$/NDF:1145628.1/22

Right Out: 118.006+/-0.032 $\chi^2$/NDF: 986553.8/18

Left In: 87.728+/-0.015 $\chi^2$/NDF:1019973.2/20

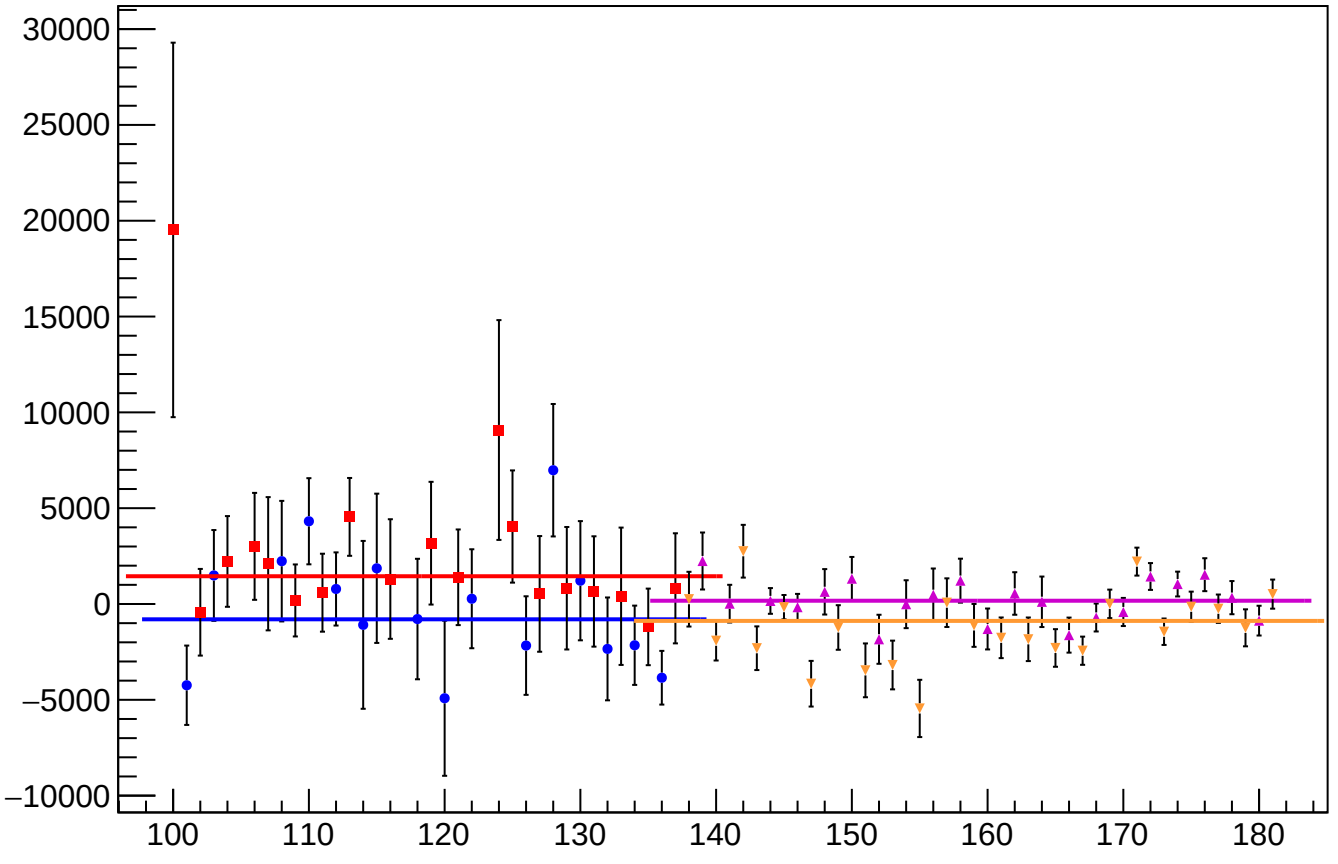
Left: 87.824+/-0.011 $\chi^2$/NDF: 2165677.8/43

Right: 117.533+/-0.023 $\chi^2$/NDF: 1845381.4/34

In: 93.099+/-0.014 $\chi^2$/NDF:2551414.8/36

Out: 93.162+/-0.014 $\chi^2$/NDF:2844094.7/41

All: 93.131+/-0.010 $\chi^2$/NDF: 5395520.0/78




Right In: -799.116+/-616.014 $\chi^2$/NDF: 23.4/15

Left Out: -882.112+/-195.251 $\chi^2$/NDF:68.9/22

Right Out: 1448.433+/-614.443 $\chi^2$/NDF: 12.5/18

Left In: 170.442+/-196.898 $\chi^2$/NDF:24.1/20

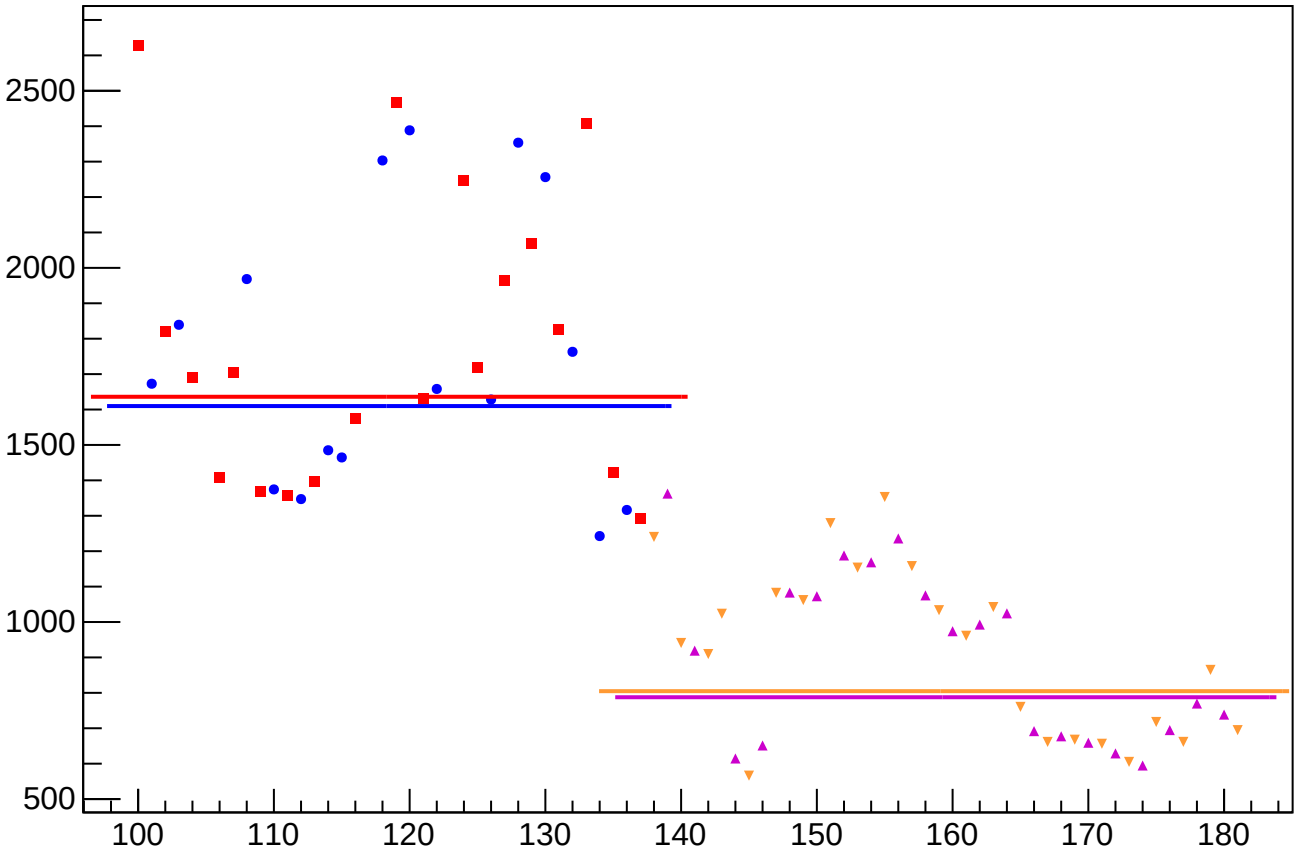
Left: -360.256+/-138.642 $\chi^2$/NDF: 107.4/43

Right: 327.528+/-435.031 $\chi^2$/NDF: 42.6/34

In: 80.569+/-187.550 $\chi^2$/NDF:49.8/36

Out: -668.363+/-186.082 $\chi^2$/NDF:94.4/41

All: -296.841+/-132.096 $\chi^2$/NDF: 152.3/78




Right In: 1609.791+/-0.436 $\chi^2$/NDF: 619158.3/15

Left Out: 804.714+/-0.138 $\chi^2$/NDF:2359834.8/22

Right Out: 1636.046+/-0.434 $\chi^2$/NDF: 527809.9/18

Left In: 787.575+/-0.139 $\chi^2$/NDF:2152663.2/20

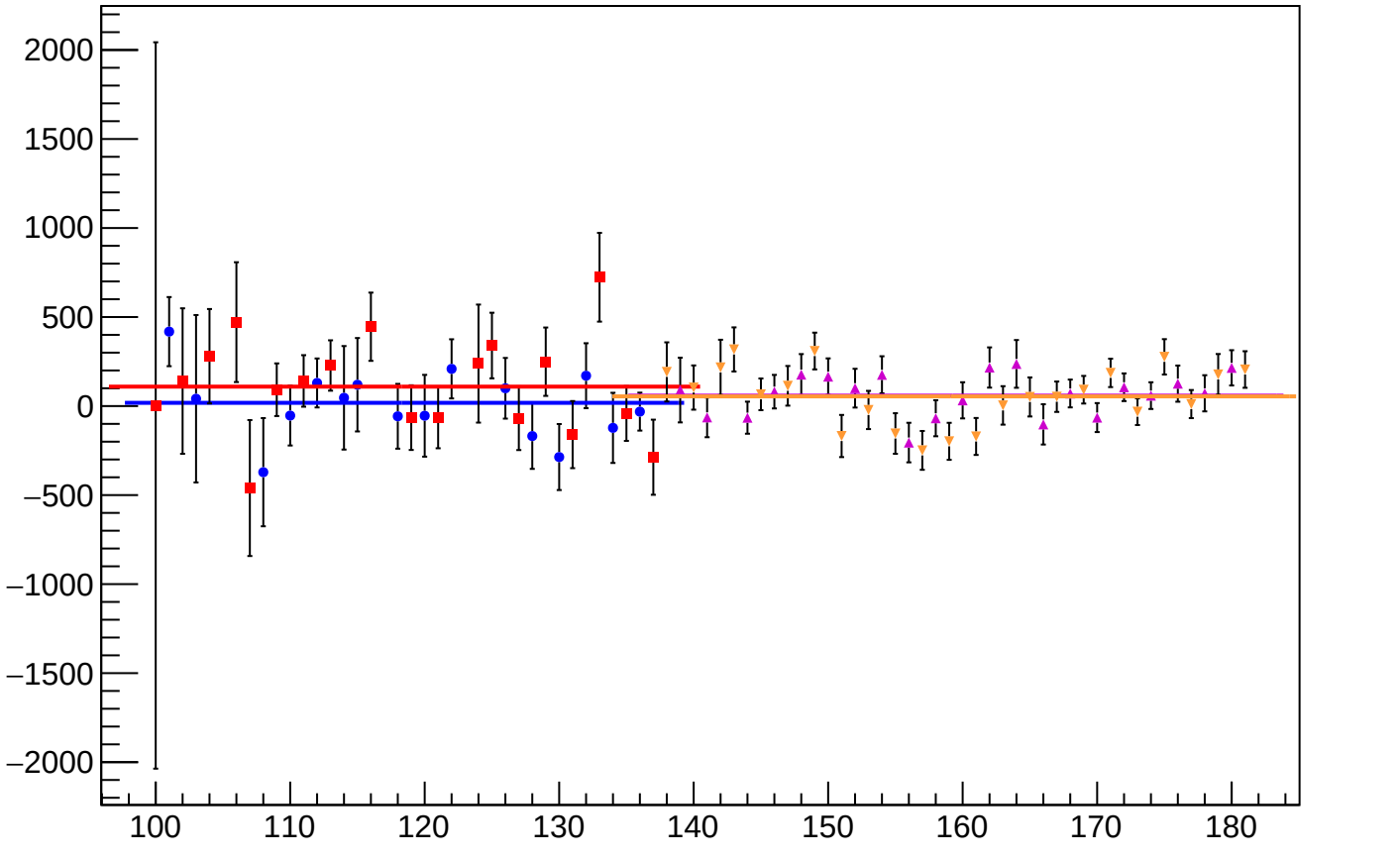
Left: 796.217+/-0.098 $\chi^2$/NDF: 4520138.3/43

Right: 1622.952+/-0.308 $\chi^2$/NDF: 1148789.4/34

In: 863.790+/-0.133 $\chi^2$/NDF:6004587.0/36

Out: 880.960+/-0.132 $\chi^2$/NDF:6212994.4/41

All: 872.443+/-0.093 $\chi^2$/NDF: 12226028.5/78




Right In: 18.191+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 54.399+/-21.060 $\chi^2$/NDF:51.7/22

Right Out: 109.151+/-45.828 $\chi^2$/NDF: 25.4/18

Left In: 58.633+/-21.638 $\chi^2$/NDF:25.4/20

Left: 56.458+/-15.092 $\chi^2$/NDF: 77.2/43

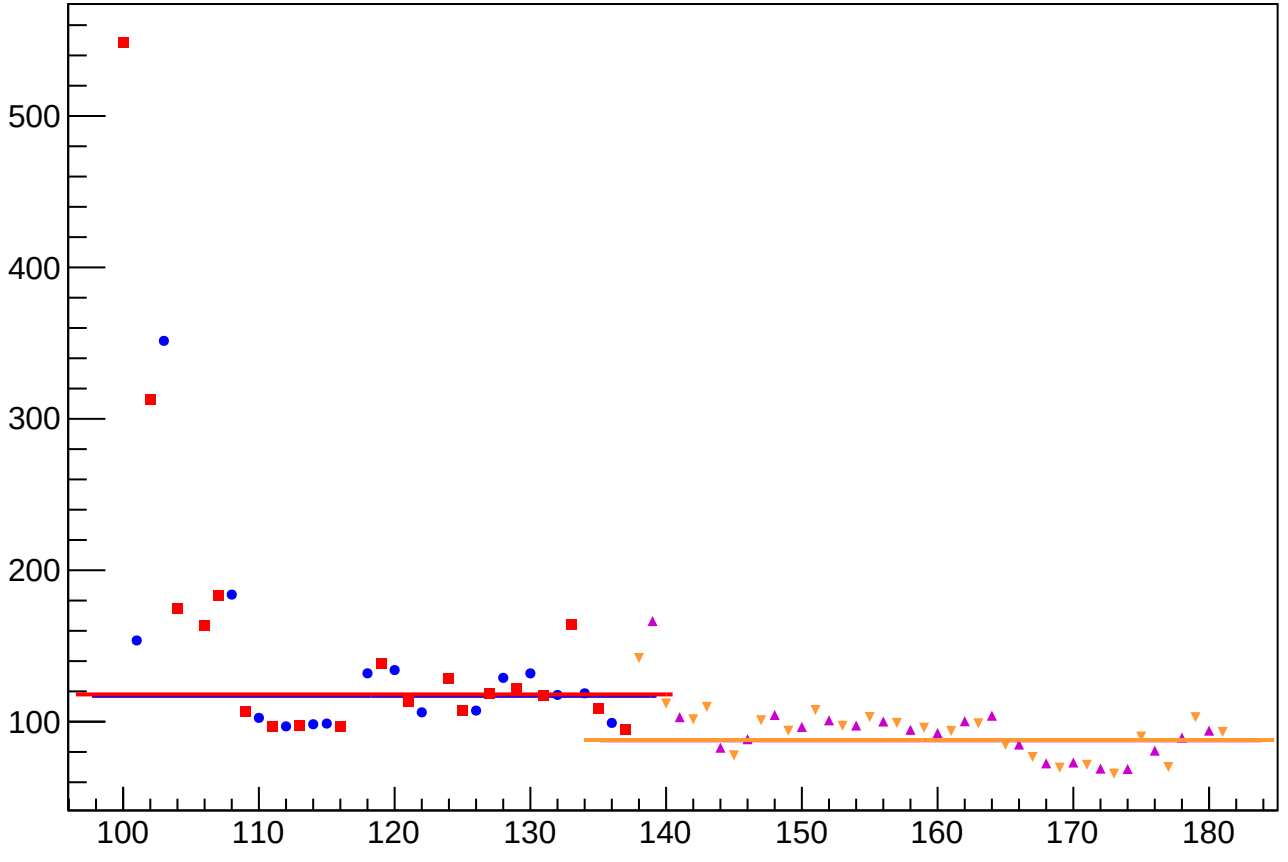
Right: 63.548+/-32.361 $\chi^2$/NDF: 41.2/34

In: 51.228+/-19.557 $\chi^2$/NDF:39.9/36

Out: 63.946+/-19.136 $\chi^2$/NDF:78.3/41

All: 57.725+/-13.678 $\chi^2$/NDF: 118.4/78

# eigen_cor_asym_sam3_rms vs Slug, Sign Corrected




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858402.8/15

Left Out: 87.915+/-0.015 $\chi^2$/NDF:1145628.1/22

Right Out: 118.006+/-0.032 $\chi^2$/NDF: 986553.8/18

Left In: 87.728+/-0.015 $\chi^2$/NDF:1019973.2/20

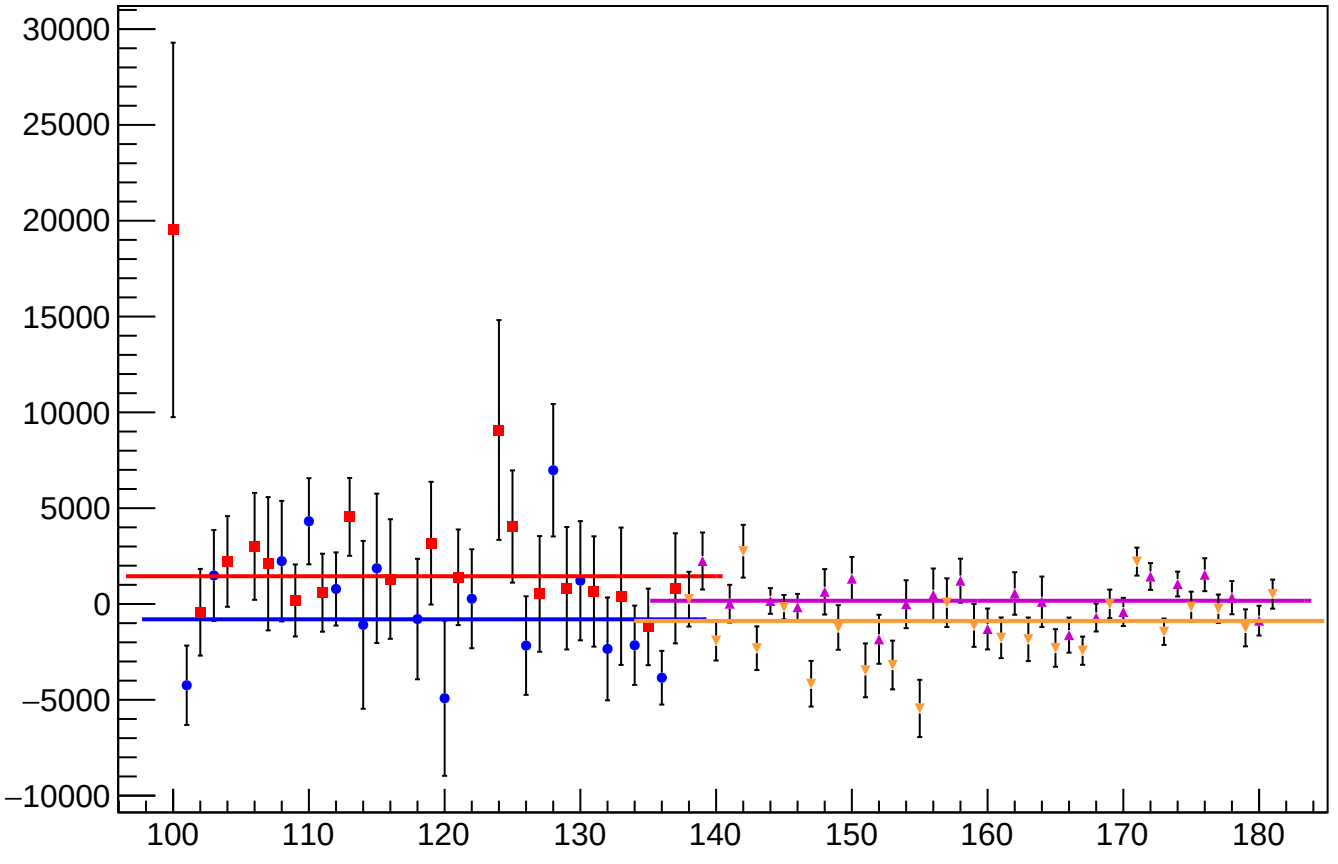
Left: 87.824+/-0.011 $\chi^2$/NDF: 2165677.8/43

Right: 117.533+/-0.023 $\chi^2$/NDF: 1845381.4/34

In: 93.099+/-0.014 $\chi^2$/NDF:2551414.8/36

Out: 93.162+/-0.014 $\chi^2$/NDF:2844094.7/41

All: 93.131+/-0.010 $\chi^2$/NDF: 5395520.0/78




Right In: -799.116+/-616.014 $\chi^2$/NDF: 23.4/15

Left Out: -882.112+/-195.251 $\chi^2$/NDF:68.9/22

Right Out: 1448.433+/-614.443 $\chi^2$/NDF: 12.5/18

Left In: 170.442+/-196.898 $\chi^2$/NDF:24.1/20

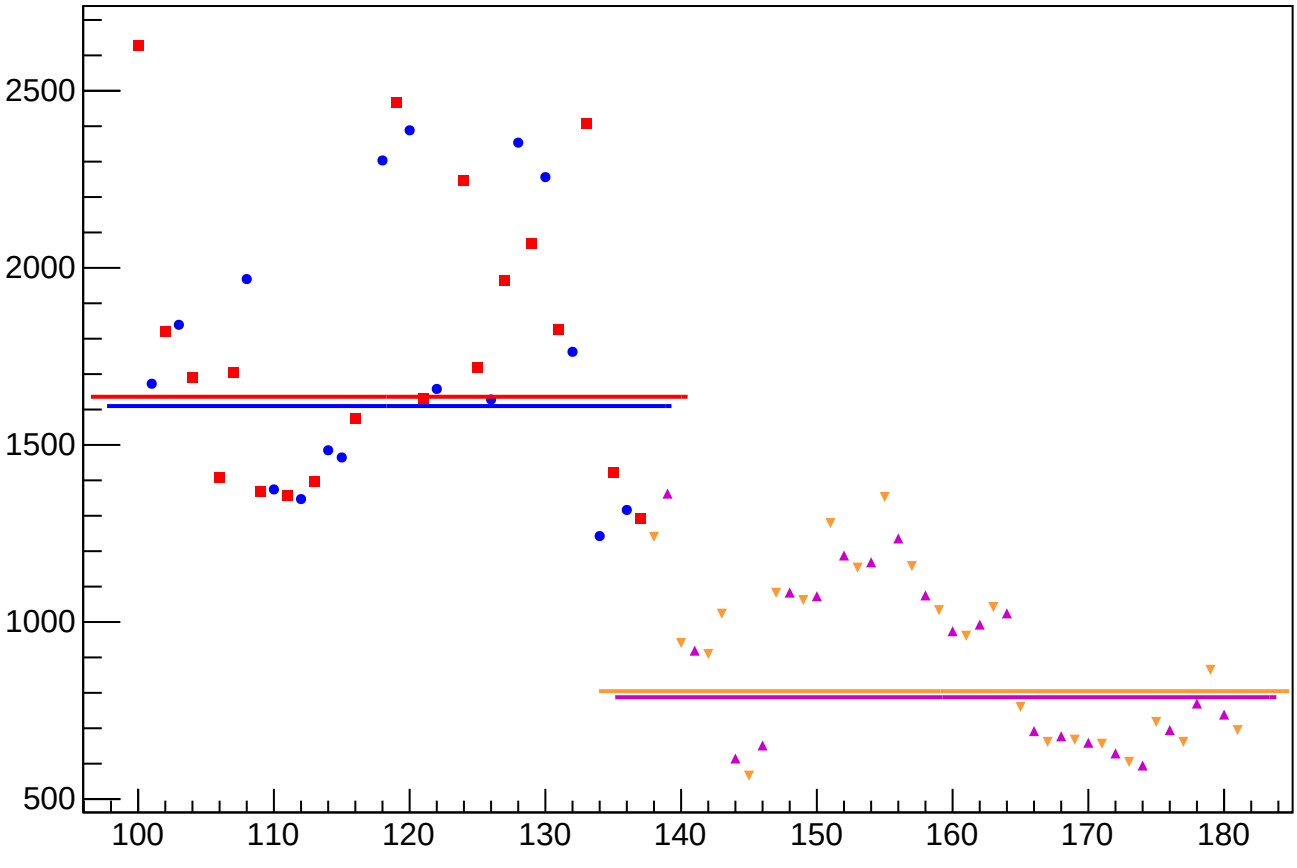
Left: -360.256+/-138.642 $\chi^2$/NDF: 107.4/43

Right: 327.528+/-435.031 $\chi^2$/NDF: 42.6/34

In: 80.569+/-187.550 $\chi^2$/NDF:49.8/36

Out: -668.363+/-186.082 $\chi^2$/NDF:94.4/41

All: -296.841+/-132.096 $\chi^2$/NDF: 152.3/78




Right In: 1609.791+/-0.436 $\chi^2$/NDF: 619158.3/15

Left Out: 804.714+/-0.138 $\chi^2$/NDF:2359834.8/22

Right Out: 1636.046+/-0.434 $\chi^2$/NDF: 527809.9/18

Left In: 787.575+/-0.139 $\chi^2$/NDF:2152663.2/20

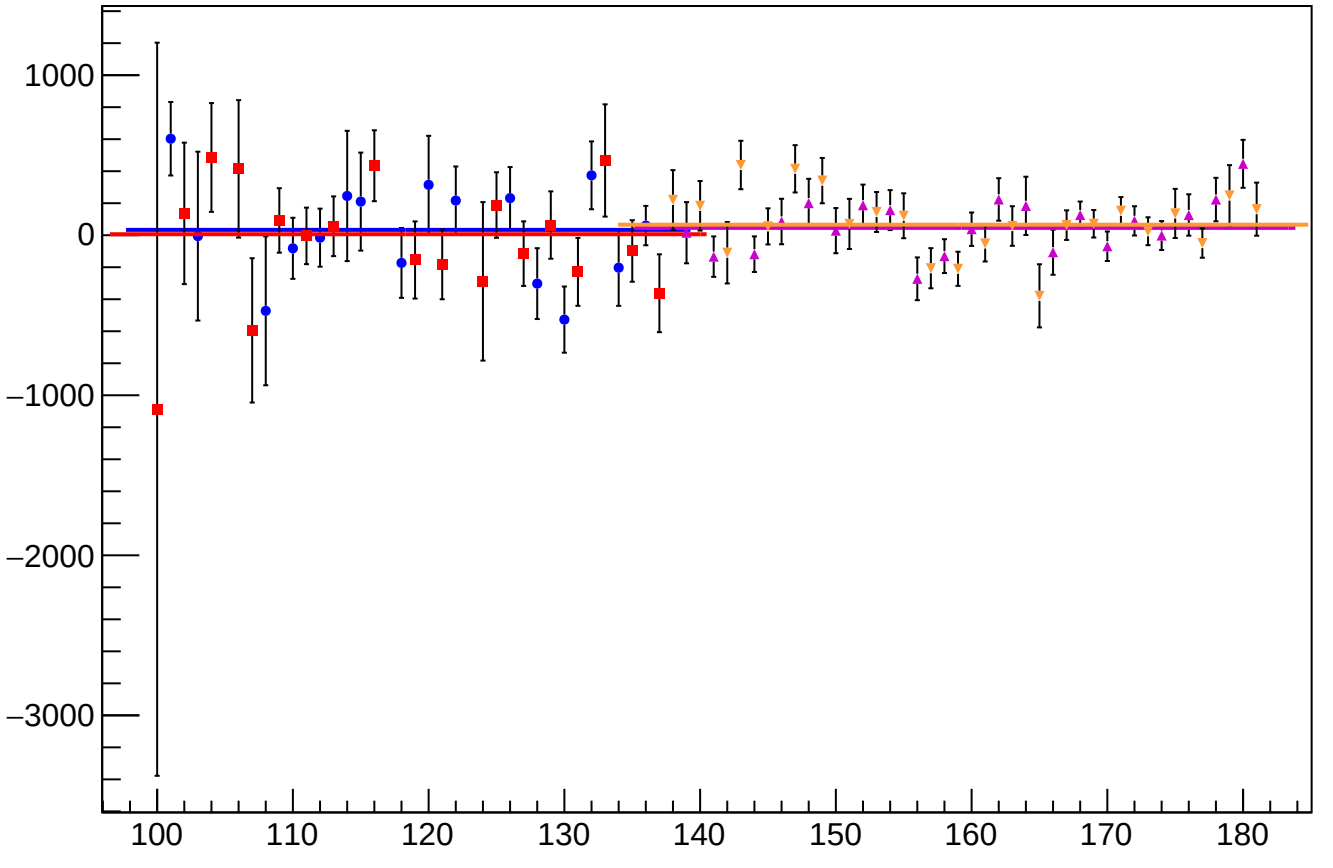
Left: 796.217+/-0.098 $\chi^2$/NDF: 4520138.3/43

Right: 1622.952+/-0.308 $\chi^2$/NDF: 1148789.4/34

In: 863.790+/-0.133 $\chi^2$/NDF:6004587.0/36

Out: 880.960+/-0.132 $\chi^2$/NDF:6212994.4/41

All: 872.443+/-0.093 $\chi^2$/NDF: 12226028.5/78




Right In: 33.471+/-54.908 $\chi^2$/NDF: 25.2/15

Left Out: 65.741+/-25.487 $\chi^2$/NDF:40.0/22

Right Out: 6.107+/-56.090 $\chi^2$/NDF: 17.3/18

Left In: 45.759+/-26.059 $\chi^2$/NDF:31.5/20

Left: 55.972+/-18.221 $\chi^2$/NDF: 71.8/43

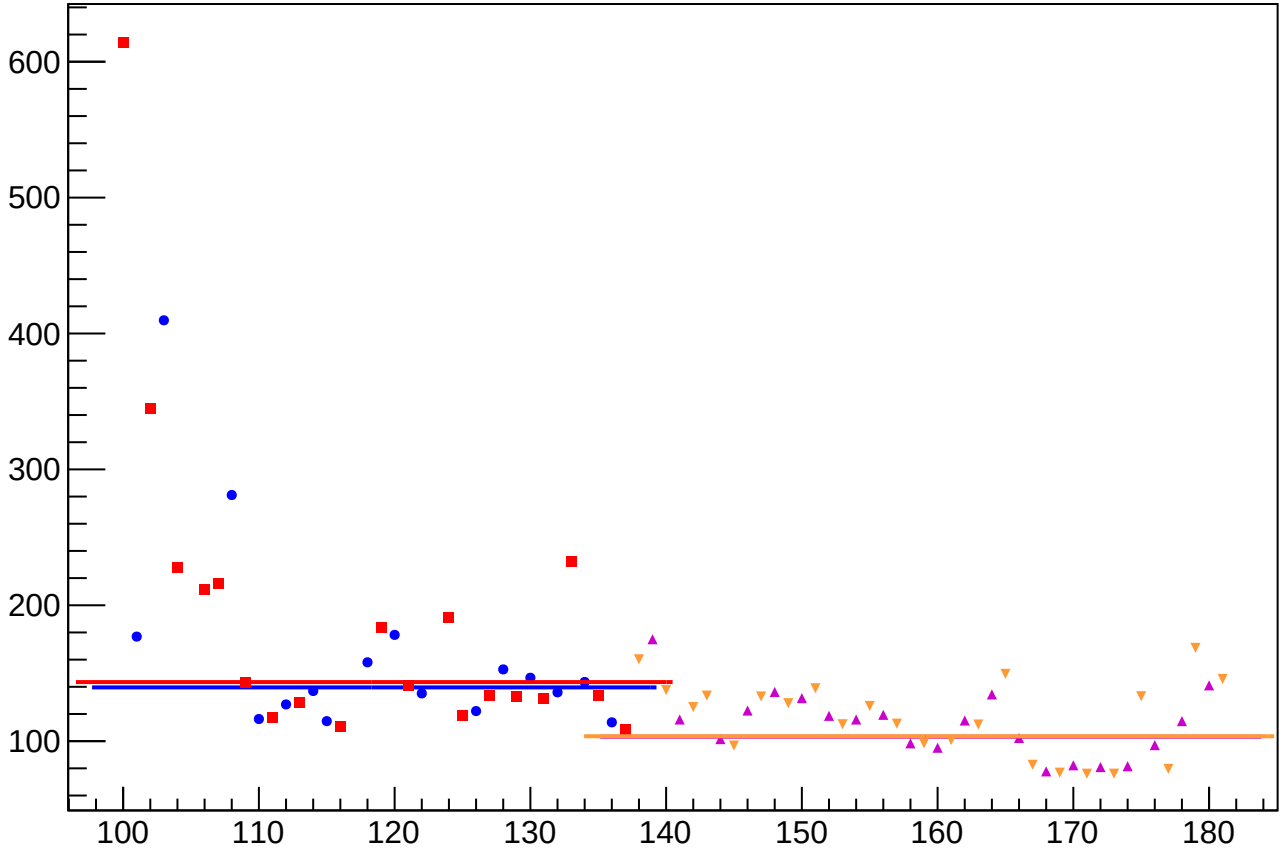
Right: 20.080+/-39.237 $\chi^2$/NDF: 42.6/34

In: 43.500+/-23.542 $\chi^2$/NDF:56.8/36

Out: 55.536+/-23.204 $\chi^2$/NDF:58.2/41

All: 49.605+/-16.526 $\chi^2$/NDF: 115.1/78

# dit_asym_sam3_rms vs Slug, Sign Corrected




Right In: 139.566+/-0.039 $\chi^2$/NDF: 976734.6/15

Left Out: 103.607+/-0.018 $\chi^2$/NDF:2106497.7/22

Right Out: 143.479+/-0.040 $\chi^2$/NDF: 1116671.9/18

Left In: 103.273+/-0.018 $\chi^2$/NDF:1351731.9/20

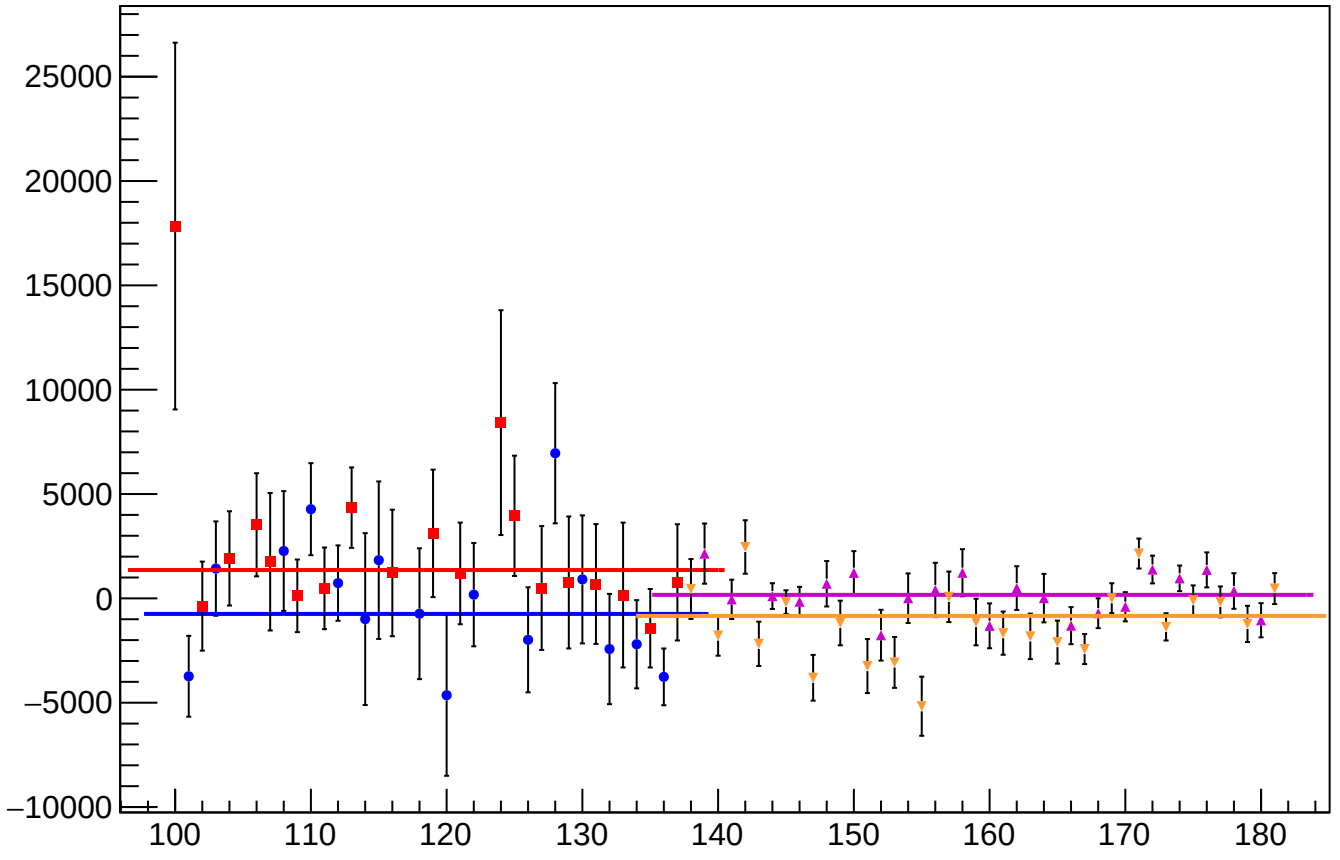
Left: 103.444+/-0.013 $\chi^2$/NDF: 3458397.2/43

Right: 141.481+/-0.028 $\chi^2$/NDF: 2098376.6/34

In: 109.945+/-0.017 $\chi^2$/NDF:3041631.7/36

Out: 110.431+/-0.016 $\chi^2$/NDF:4060853.8/41

All: 110.191+/-0.012 $\chi^2$/NDF: 7102917.0/78




Right In: -744.681+/-595.810 $\chi^2$/NDF: 23.5/15

Left Out: -840.515+/-185.787 $\chi^2$/NDF:68.0/22

Right Out: 1357.874+/-585.808 $\chi^2$/NDF: 13.5/18

Left In: 169.074+/-189.900 $\chi^2$/NDF:23.1/20

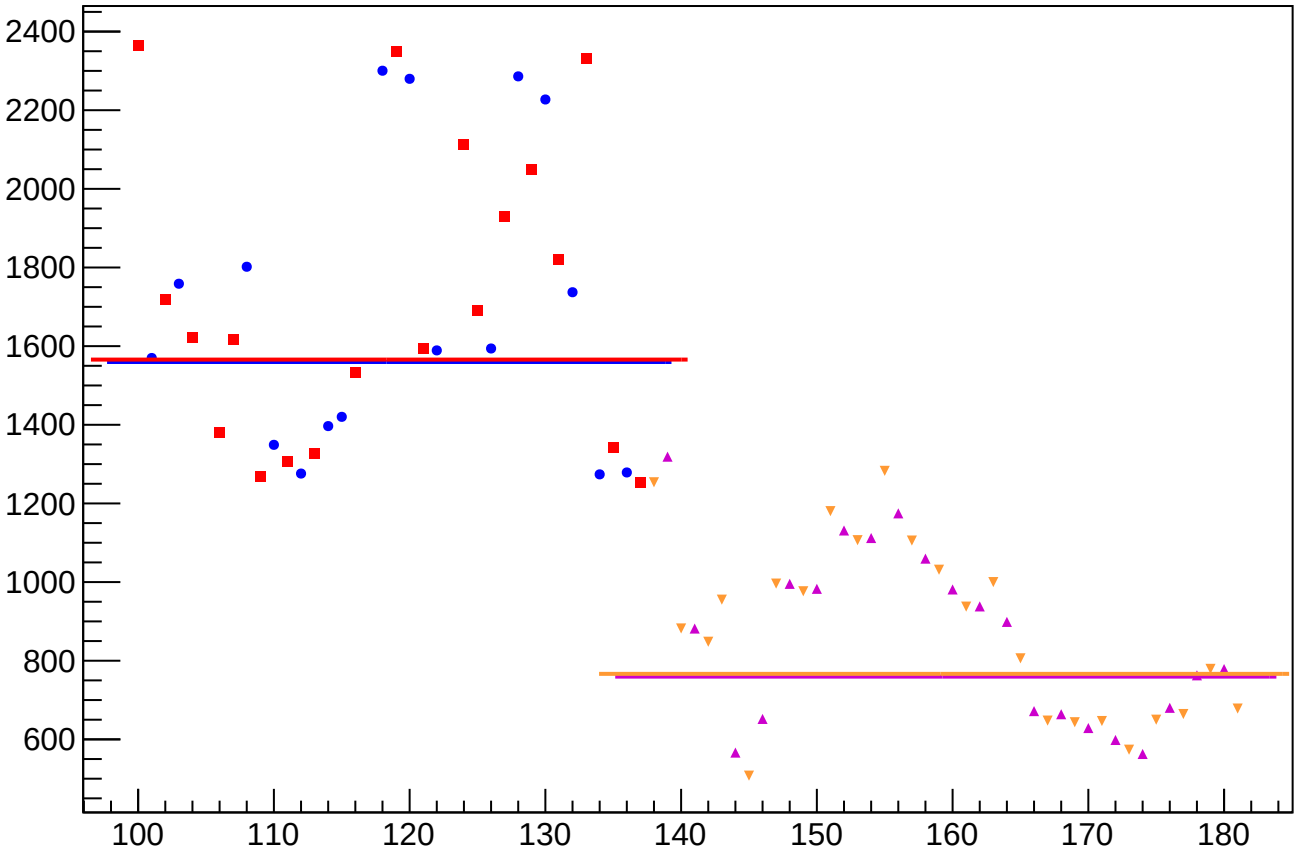
Left: -346.770+/-132.801 $\chi^2$/NDF: 105.6/43

Right: 324.392+/-417.720 $\chi^2$/NDF: 43.3/34

In: 84.810+/-180.932 $\chi^2$/NDF:48.7/36

Out: -639.604+/-177.094 $\chi^2$/NDF:94.3/41

All: -285.161+/-126.559 $\chi^2$/NDF: 151.3/78




Right In: 1559.735+/-0.421 $\chi^2$/NDF: 604209.5/15

Left Out: 766.604+/-0.131 $\chi^2$/NDF:2422306.0/22

Right Out: 1565.808+/-0.414 $\chi^2$/NDF: 563847.8/18

Left In: 759.599+/-0.134 $\chi^2$/NDF:2109477.5/20

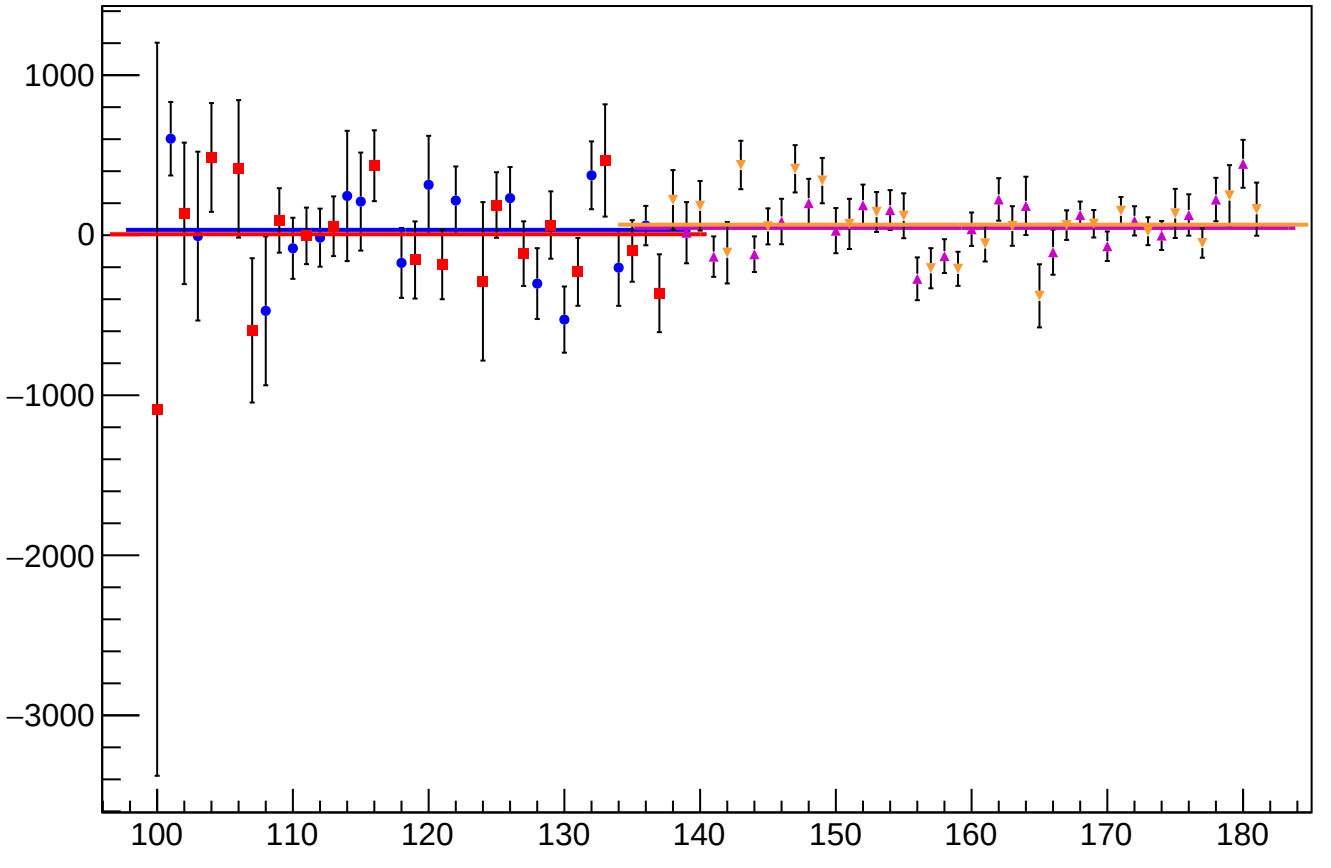
Left: 763.178+/-0.094 $\chi^2$/NDF: 4533174.2/43

Right: 1562.823+/-0.295 $\chi^2$/NDF: 1168163.0/34

In: 833.385+/-0.128 $\chi^2$/NDF:5988034.5/36

Out: 839.643+/-0.125 $\chi^2$/NDF:6368451.4/41

All: 836.581+/-0.089 $\chi^2$/NDF: 12357707.9/78




Right In: 33.469+/-54.908 $\chi^2$/NDF: 25.2/15

Left Out: 65.742+/-25.487 $\chi^2$/NDF:40.0/22

Right Out: 6.103+/-56.090 $\chi^2$/NDF: 17.3/18

Left In: 45.758+/-26.059 $\chi^2$/NDF:31.5/20

Left: 55.972+/-18.221 $\chi^2$/NDF: 71.8/43

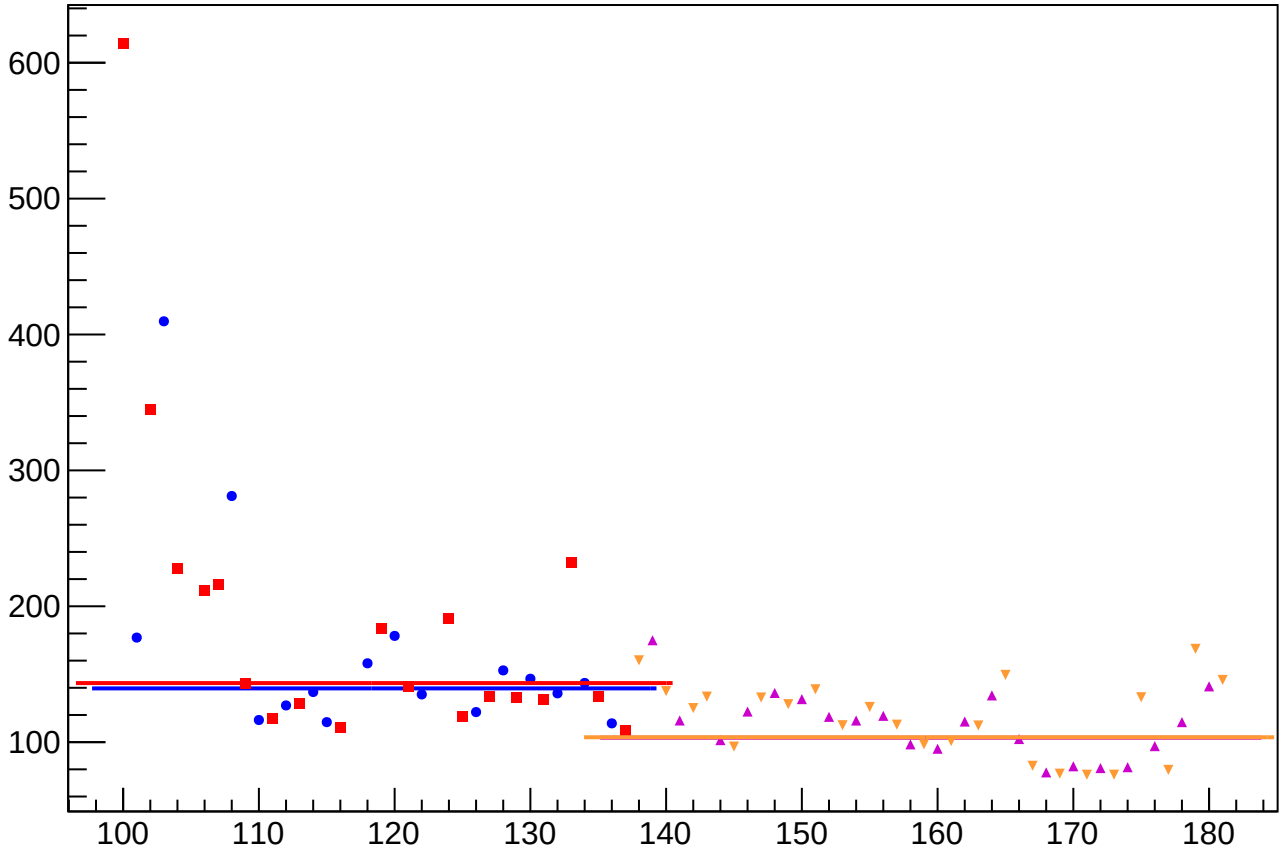
Right: 20.078+/-39.237 $\chi^2$/NDF: 42.6/34

In: 43.499+/-23.542 $\chi^2$/NDF:56.8/36

Out: 55.536+/-23.204 $\chi^2$/NDF:58.2/41

All: 49.604+/-16.526 $\chi^2$/NDF: 115.1/78

# eigen_dit_asym_sam3_rms vs Slug, Sign Corrected




Right In: 139.567+/-0.039 $\chi^2$/NDF: 976737.0/15

Left Out: 103.607+/-0.018 $\chi^2$/NDF:2106520.4/22

Right Out: 143.480+/-0.040 $\chi^2$/NDF: 1116678.4/18

Left In: 103.274+/-0.018 $\chi^2$/NDF:1351743.1/20

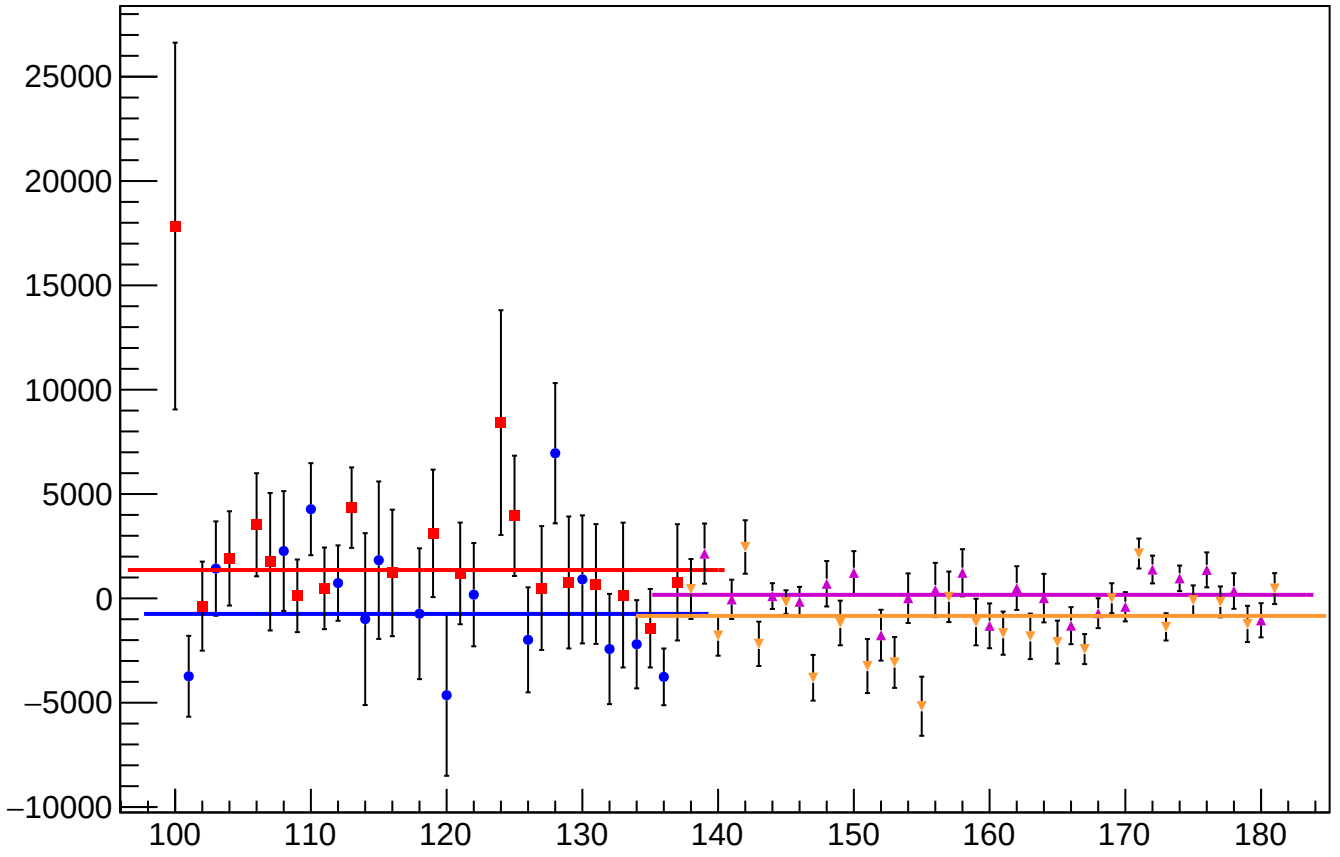
Left: 103.444+/-0.013 $\chi^2$/NDF: 3458431.1/43

Right: 141.482+/-0.028 $\chi^2$/NDF: 2098386.0/34

In: 109.946+/-0.017 $\chi^2$/NDF:3041641.3/36

Out: 110.431+/-0.016 $\chi^2$/NDF:4060883.5/41

All: 110.192+/-0.012 $\chi^2$/NDF: 7102956.4/78




Right In: -744.678+/-595.809 $\chi^2$/NDF: 23.5/15

Left Out: -840.516+/-185.787 $\chi^2$/NDF:68.0/22

Right Out: 1357.874+/-585.807 $\chi^2$/NDF: 13.5/18

Left In: 169.073+/-189.899 $\chi^2$/NDF:23.1/20

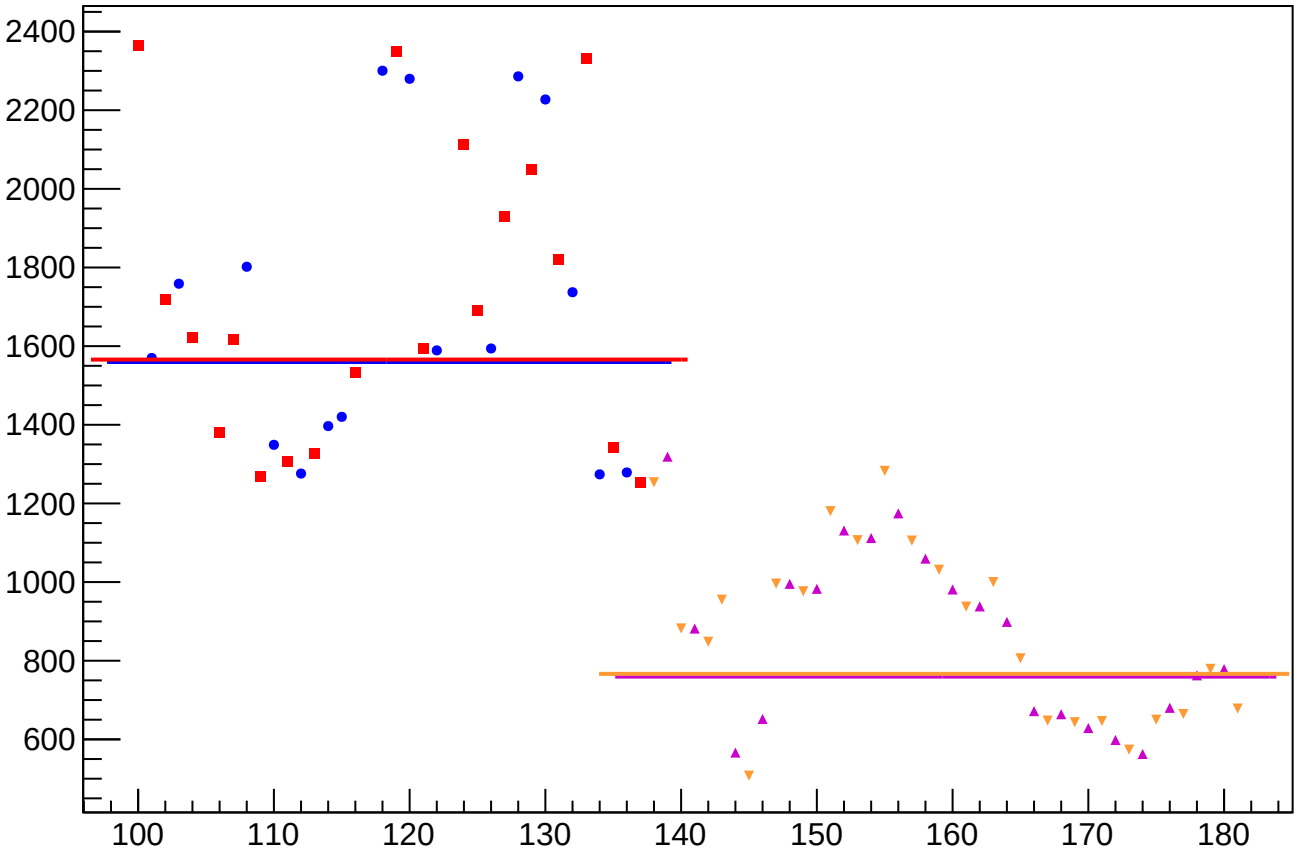
Left: -346.771+/-132.801 $\chi^2$/NDF: 105.6/43

Right: 324.394+/-417.720 $\chi^2$/NDF: 43.3/34

In: 84.809+/-180.932 $\chi^2$/NDF:48.7/36

Out: -639.605+/-177.094 $\chi^2$/NDF:94.3/41

All: -285.162+/-126.559 $\chi^2$/NDF: 151.3/78




Right In: 1559.734+/-0.421 $\chi^2$/NDF: 604209.8/15

Left Out: 766.604+/-0.131 $\chi^2$/NDF:2422299.5/22

Right Out: 1565.806+/-0.414 $\chi^2$/NDF: 563845.7/18

Left In: 759.598+/-0.134 $\chi^2$/NDF:2109472.5/20

Left: 763.178+/-0.094 $\chi^2$/NDF: 4533162.9/43

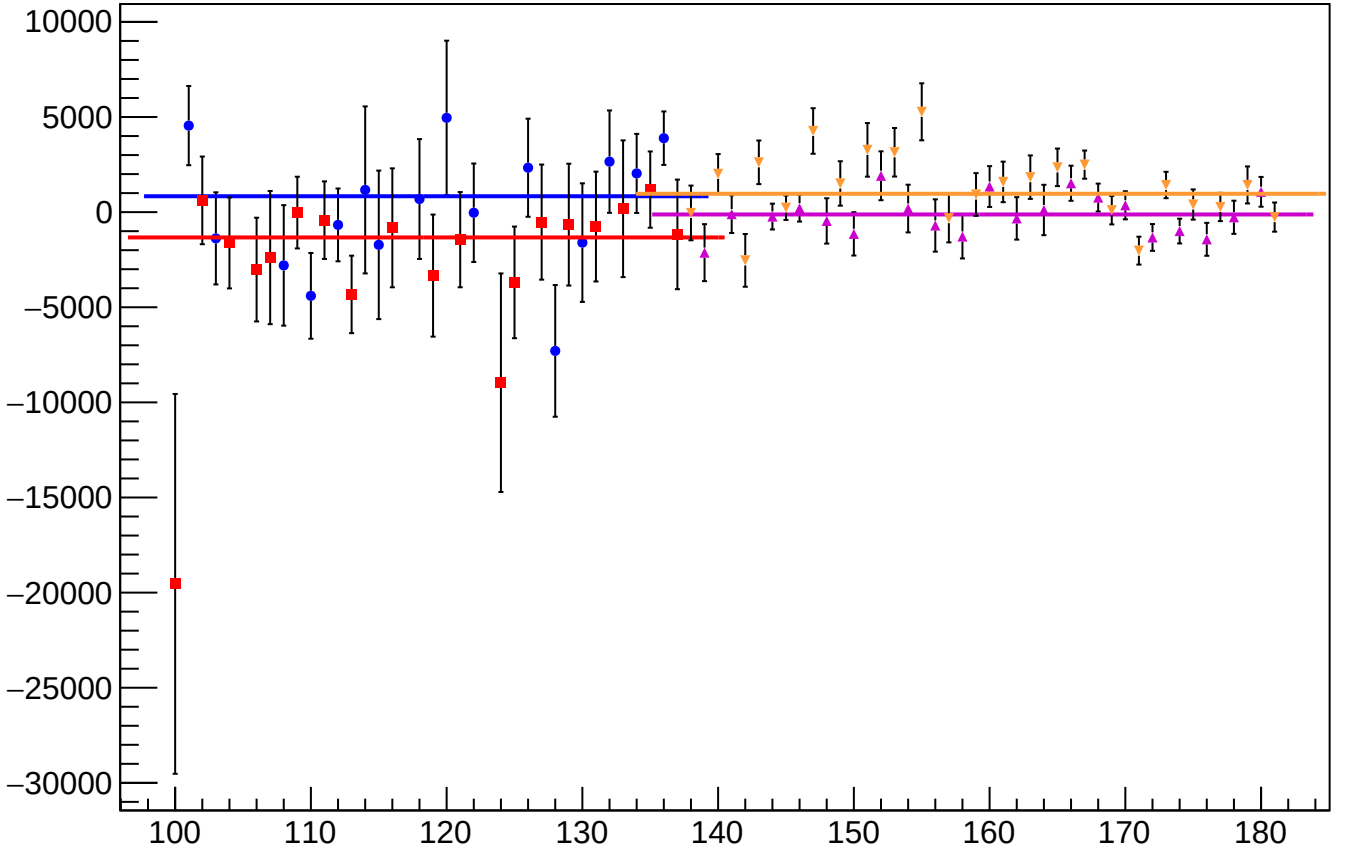
Right: 1562.821+/-0.295 $\chi^2$/NDF: 1168161.1/34

In: 833.385+/-0.128 $\chi^2$/NDF:5988029.2/36

Out: 839.643+/-0.125 $\chi^2$/NDF:6368439.0/41

All: 836.581+/-0.089 $\chi^2$/NDF: 12357690.2/78

# asym_sam3_mean vs Slug, Sign Corrected




Right In: 835.496+/-618.780 $\chi^2$/NDF: 24.9/15

Left Out: 965.229+/-196.523 $\chi^2$/NDF:63.7/22

Right Out: -1329.538+/-616.428 $\chi^2$/NDF: 12.1/18

Left In: -122.121+/-198.236 $\chi^2$/NDF:23.0/20

Left: 426.274+/-139.564 $\chi^2$/NDF: 101.9/43

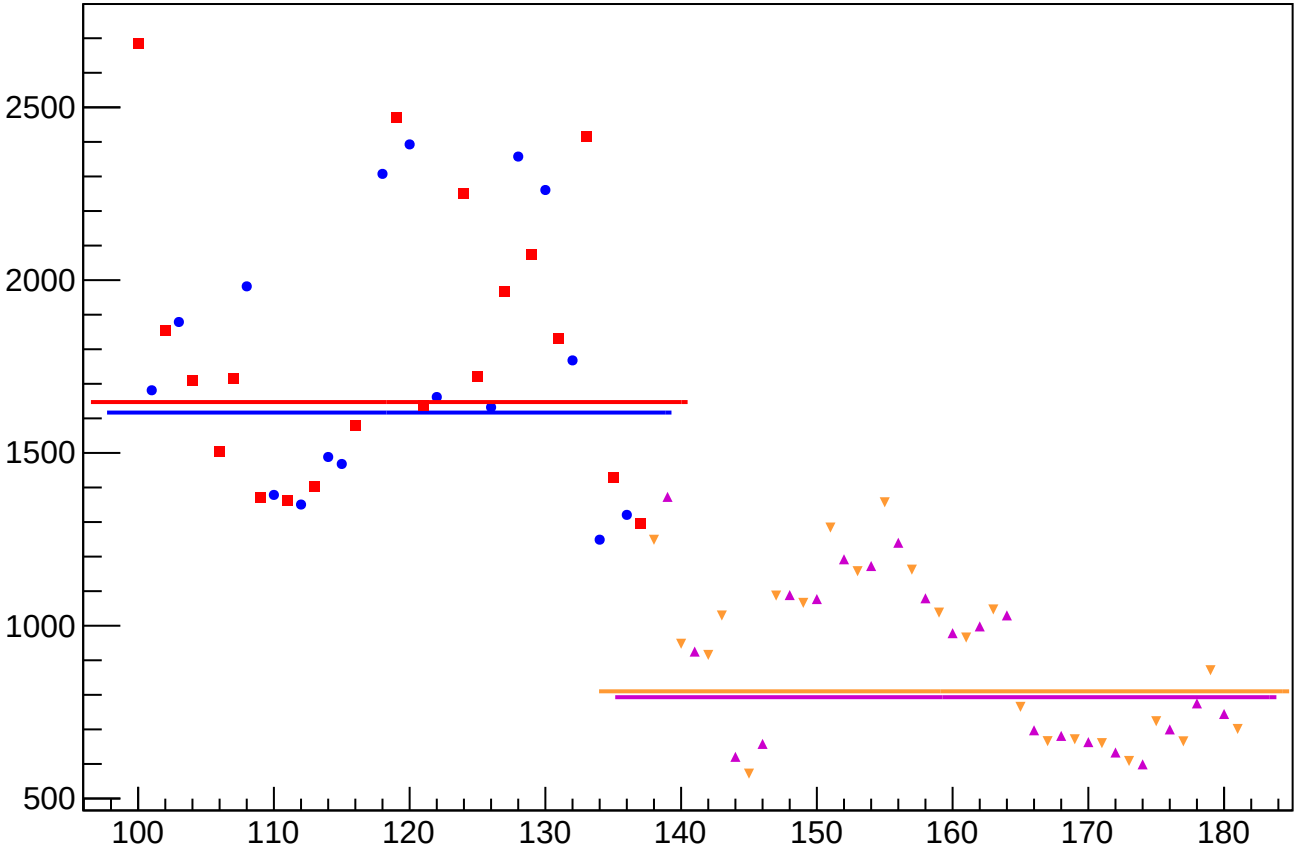
Right: -251.145+/-436.710 $\chi^2$/NDF: 43.2/34

In: -32.985+/-188.785 $\chi^2$/NDF:50.1/36

Out: 753.510+/-187.238 $\chi^2$/NDF:88.4/41

All: 363.498+/-132.941 $\chi^2$/NDF: 147.2/78

# asym_sam3_rms vs Slug, Sign Corrected




Right In: 1616.804+/-0.438 $\chi^2$/NDF: 622271.0/15

Left Out: 810.187+/-0.139 $\chi^2$/NDF:2338214.4/22

Right Out: 1647.227+/-0.436 $\chi^2$/NDF: 523860.9/18

Left In: 793.180+/-0.140 $\chi^2$/NDF:2131926.4/20

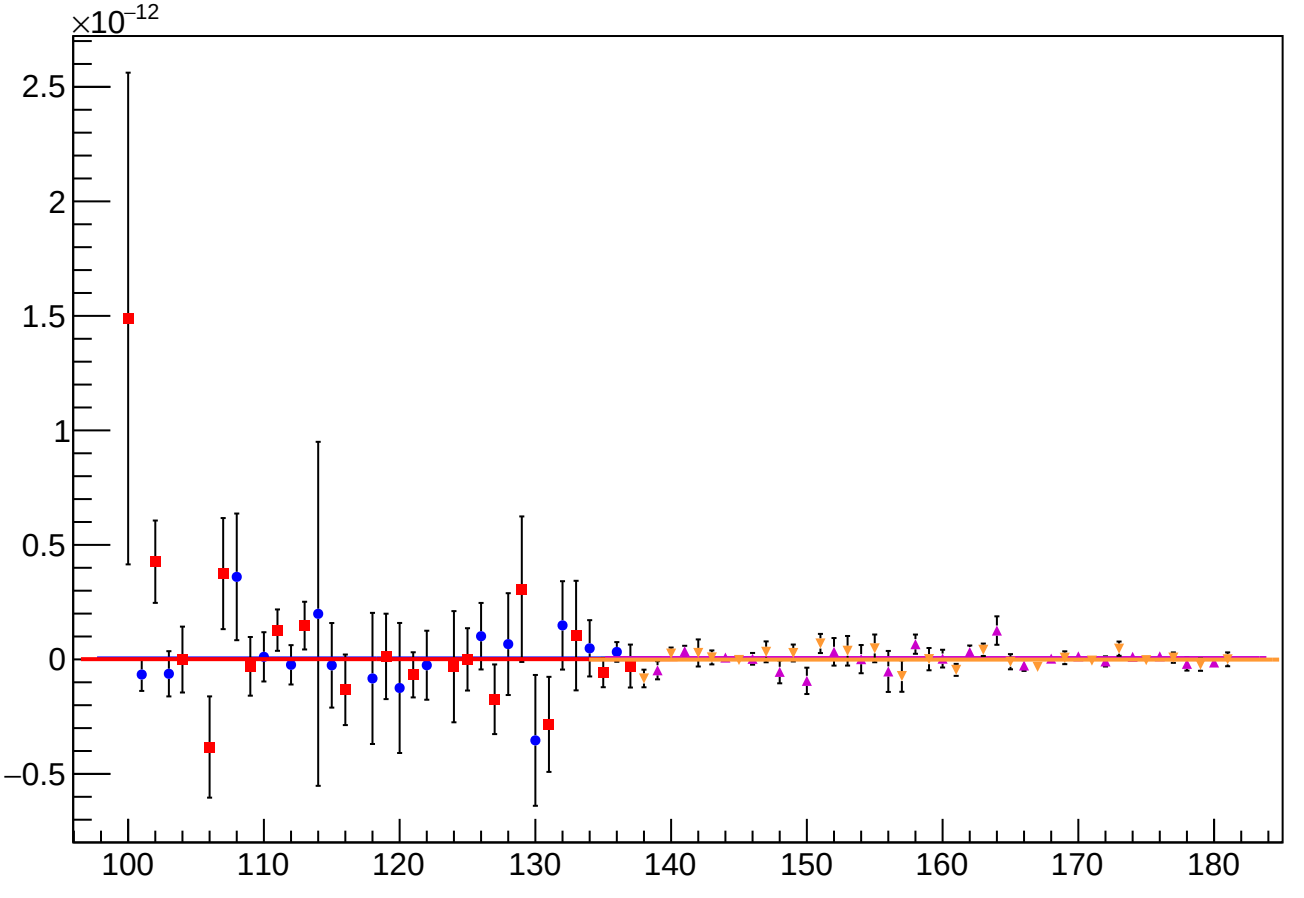
Left: 801.757+/-0.099 $\chi^2$/NDF: 4477565.1/43

Right: 1632.074+/-0.309 $\chi^2$/NDF: 1148558.3/34

In: 869.844+/-0.133 $\chi^2$/NDF:5967738.8/36

Out: 887.414+/-0.132 $\chi^2$/NDF:6209562.3/41

All: 878.701+/-0.094 $\chi^2$/NDF: 12186034.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:23.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.9/20

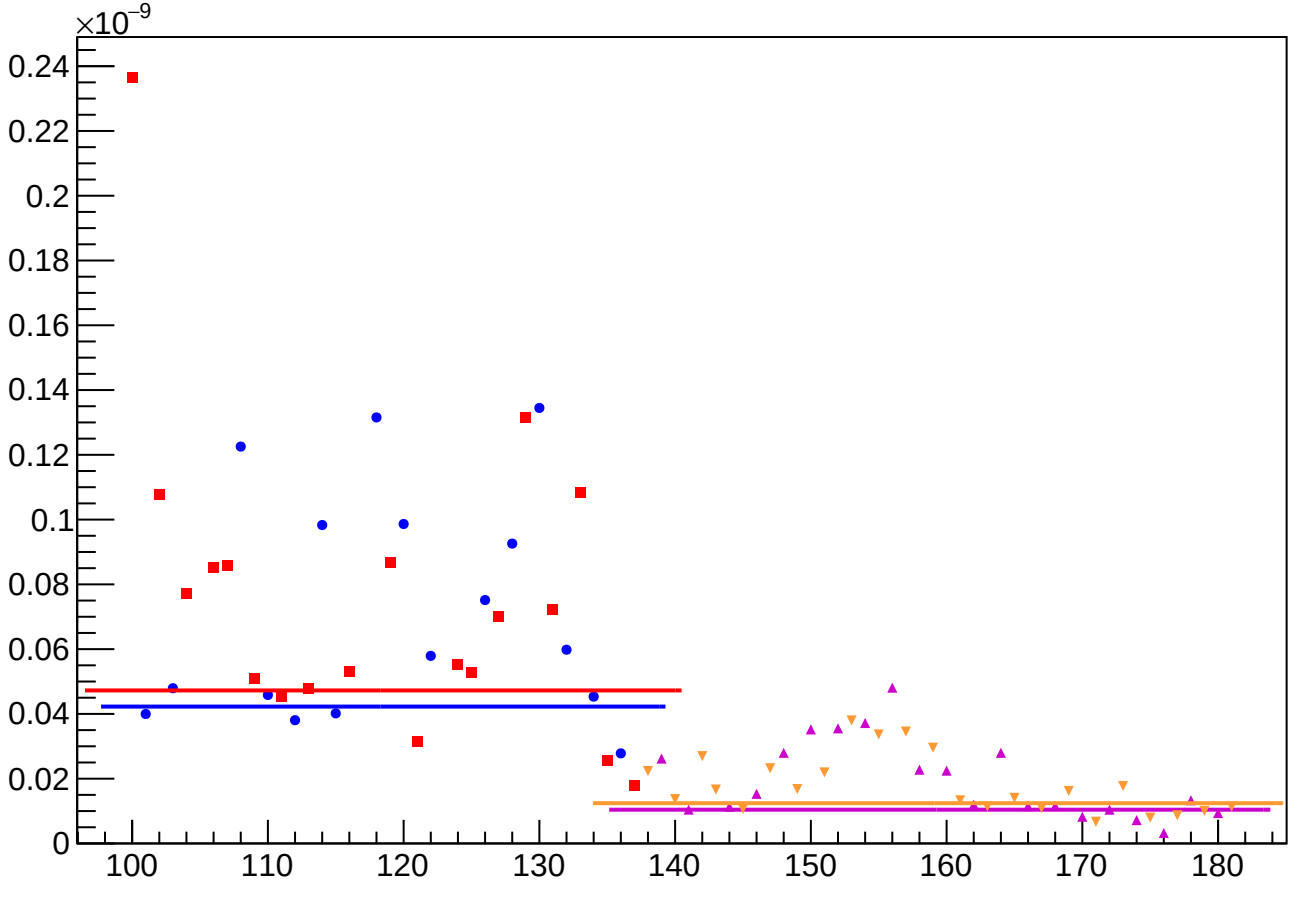
Left: 0.000+/-0.000 $\chi^2$/NDF: 44.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:46.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 74.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1147920.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2212845.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1410595.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3613795.4/20

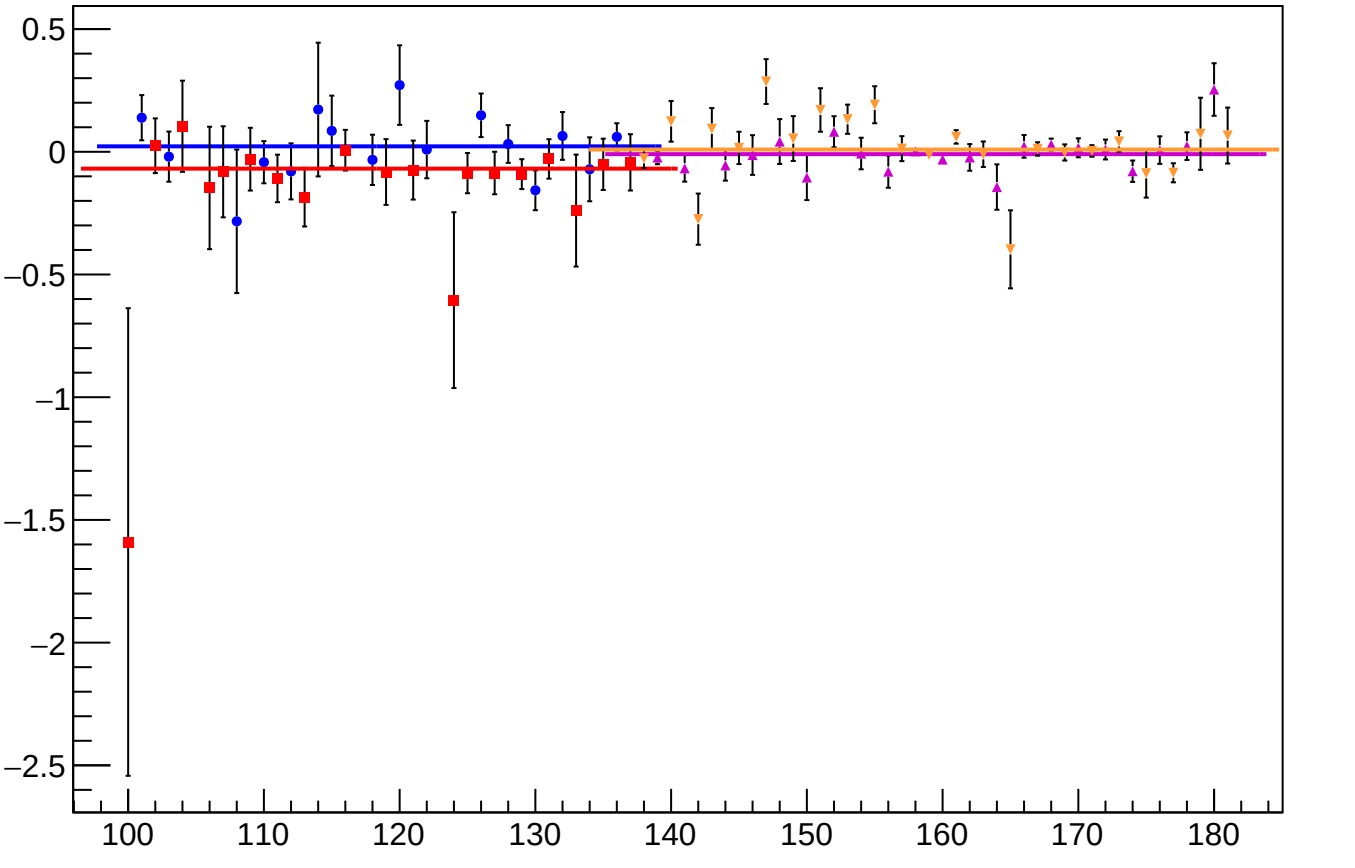
Left: 0.000+/-0.000 $\chi^2$/NDF: 5964812.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 2588419.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:7397644.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6174965.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 13721035.4/78




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: 0.009+/-0.008 $\chi^2$/NDF:54.3/22

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.010+/-0.008 $\chi^2$/NDF:23.8/20

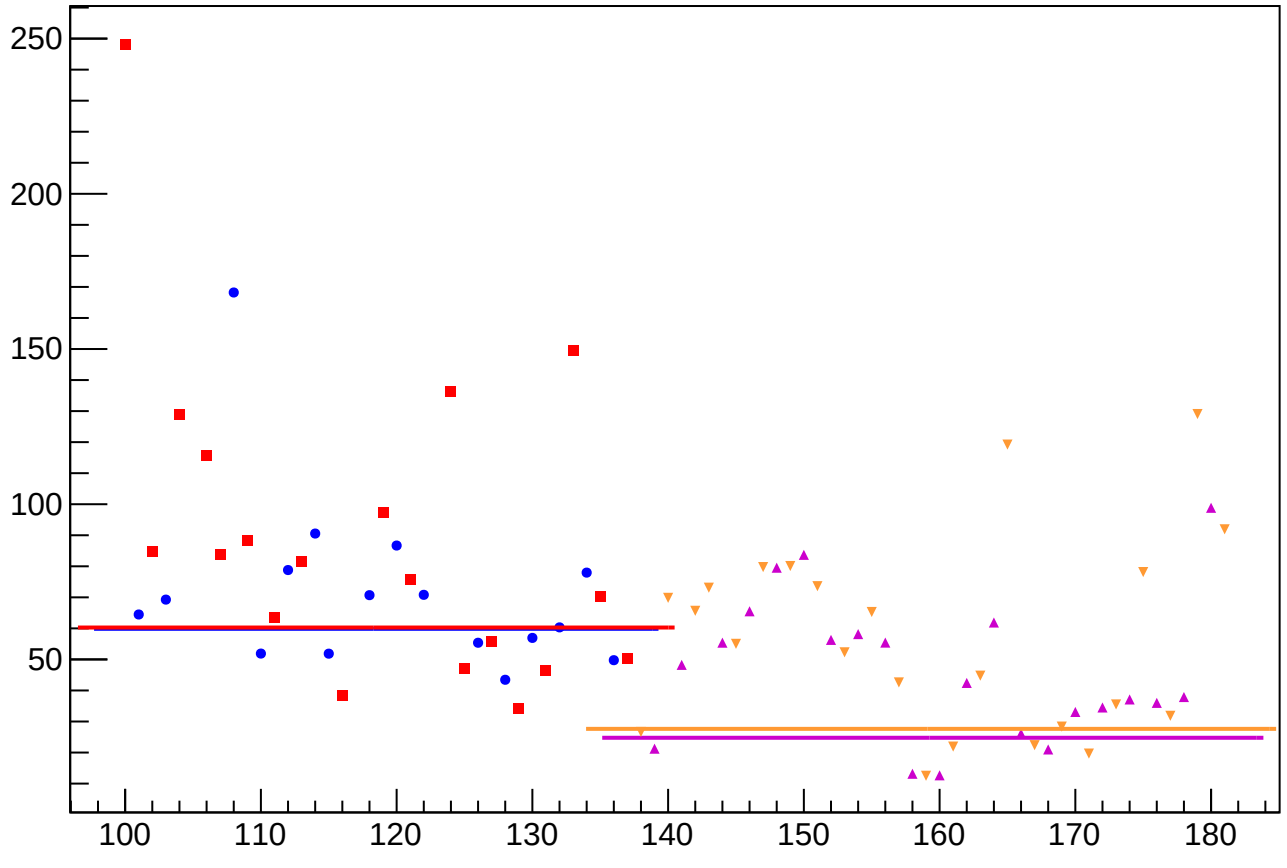
Left: -0.001+/-0.006 $\chi^2$/NDF: 80.7/43

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.007+/-0.008 $\chi^2$/NDF:40.8/36

Out: 0.001+/-0.008 $\chi^2$/NDF:72.4/41

All: -0.003+/-0.006 $\chi^2$/NDF: 113.7/78




Right In: 59.867+/-0.017 $\chi^2$/NDF: 698954.5/15

Left Out: 27.632+/-0.006 $\chi^2$/NDF:9967598.7/22

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977220.6/18

Left In: 24.762+/-0.006 $\chi^2$/NDF:8656681.8/20

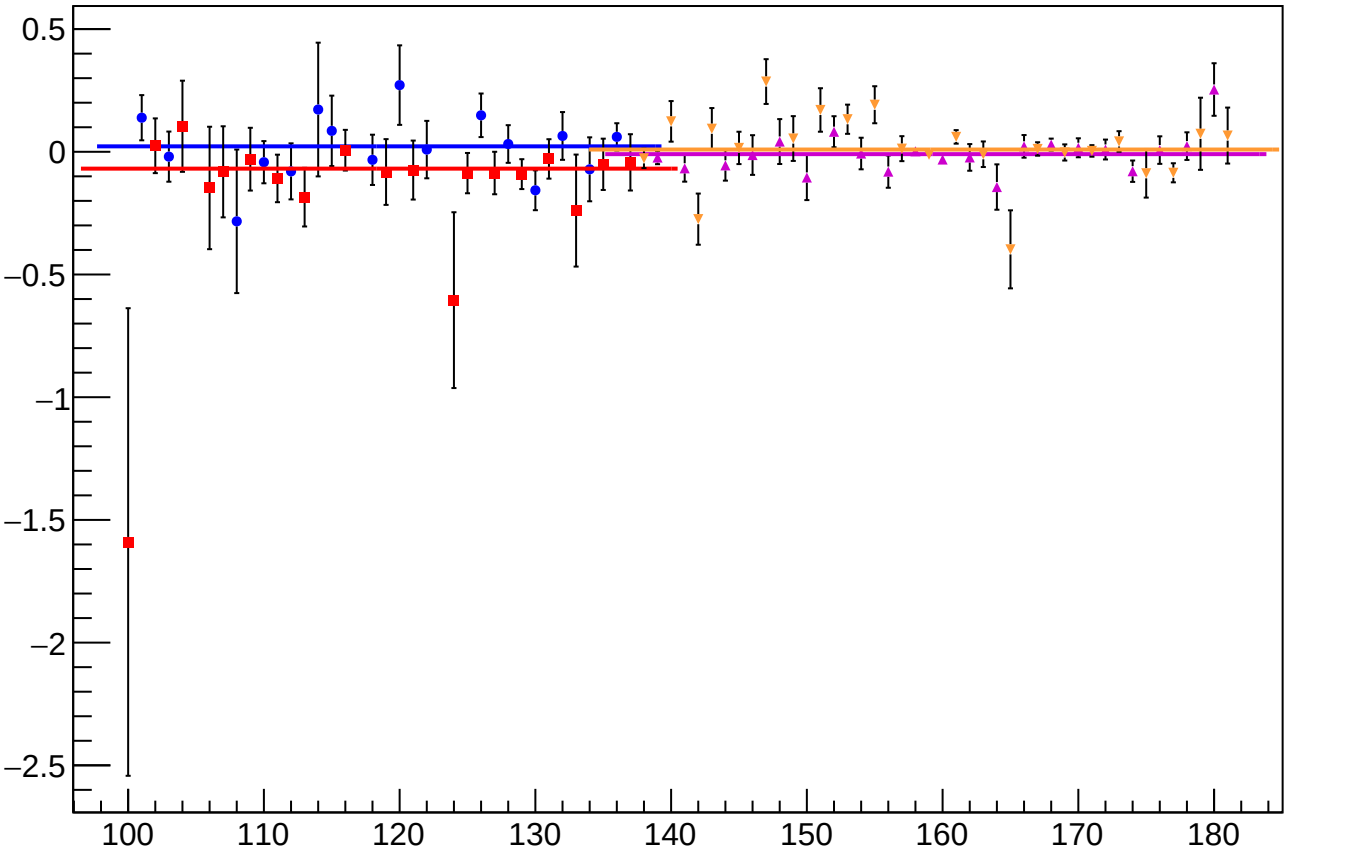
Left: 26.102+/-0.004 $\chi^2$/NDF: 18746265.6/43

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676445.3/34

In: 28.058+/-0.005 $\chi^2$/NDF:13023969.8/36

Out: 30.939+/-0.006 $\chi^2$/NDF:14942700.1/41

All: 29.410+/-0.004 $\chi^2$/NDF: 28102878.8/78




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: 0.009+/-0.008 $\chi^2$/NDF:54.3/22

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.010+/-0.008 $\chi^2$/NDF:23.8/20

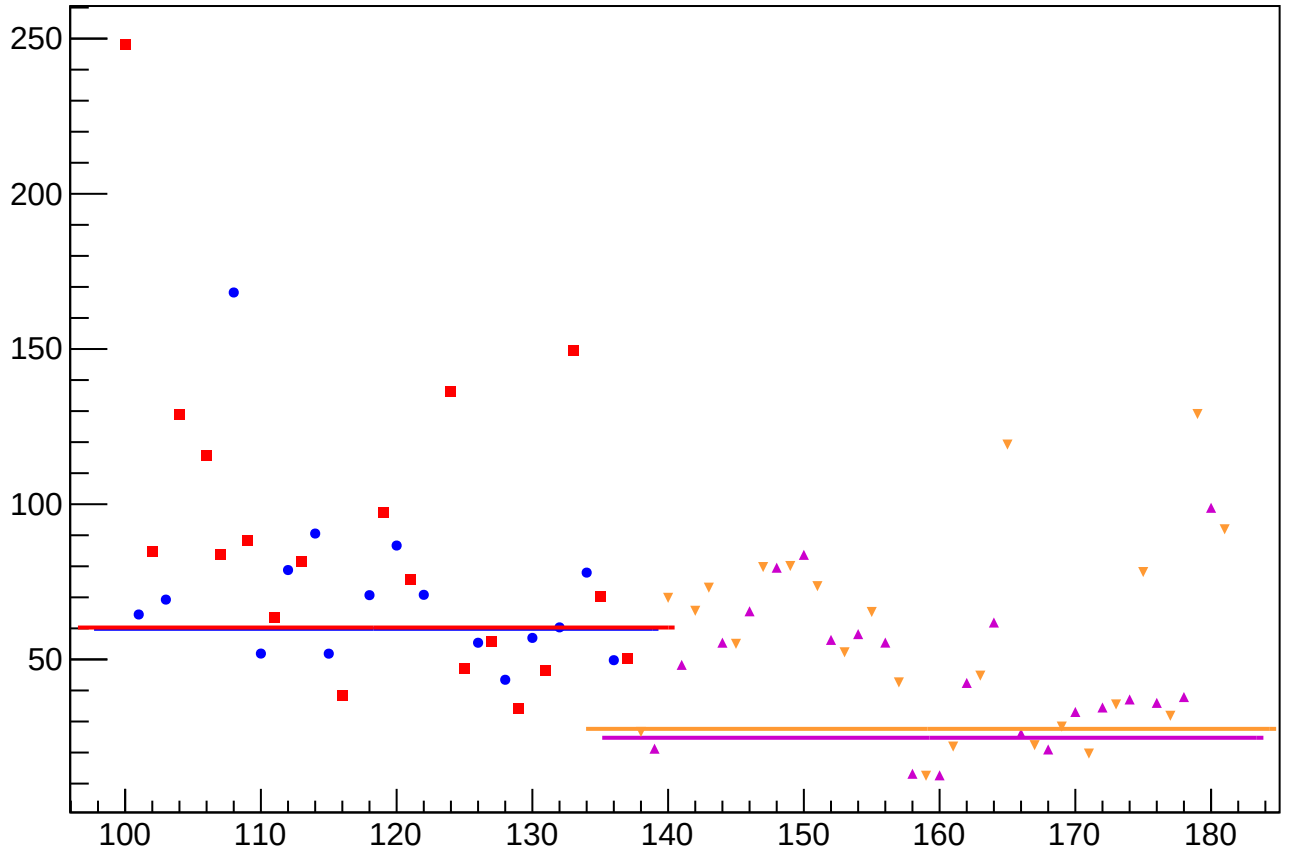
Left: -0.001+/-0.006 $\chi^2$/NDF: 80.7/43

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.007+/-0.008 $\chi^2$/NDF:40.8/36

Out: 0.001+/-0.008 $\chi^2$/NDF:72.4/41

All: -0.003+/-0.006 $\chi^2$/NDF: 113.7/78




Right In: 59.867+/-0.017 $\chi^2$/NDF: 698954.5/15

Left Out: 27.632+/-0.006 $\chi^2$/NDF:9967598.7/22

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977220.6/18

Left In: 24.762+/-0.006 $\chi^2$/NDF:8656681.8/20

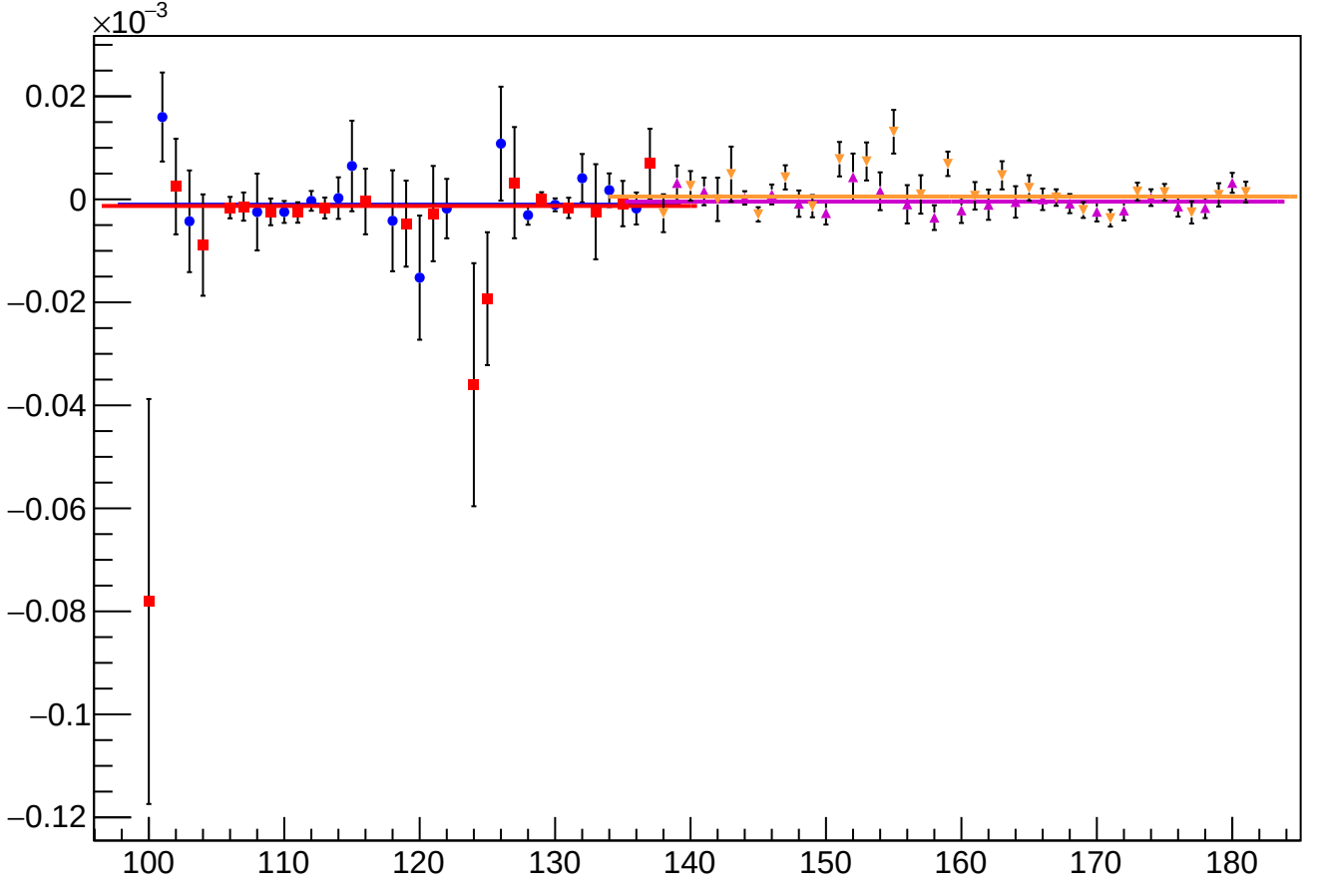
Left: 26.102+/-0.004 $\chi^2$/NDF: 18746265.6/43

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676445.3/34

In: 28.058+/-0.005 $\chi^2$/NDF:13023969.8/36

Out: 30.939+/-0.006 $\chi^2$/NDF:14942700.1/41

All: 29.410+/-0.004 $\chi^2$/NDF: 28102878.8/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:50.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.5/20

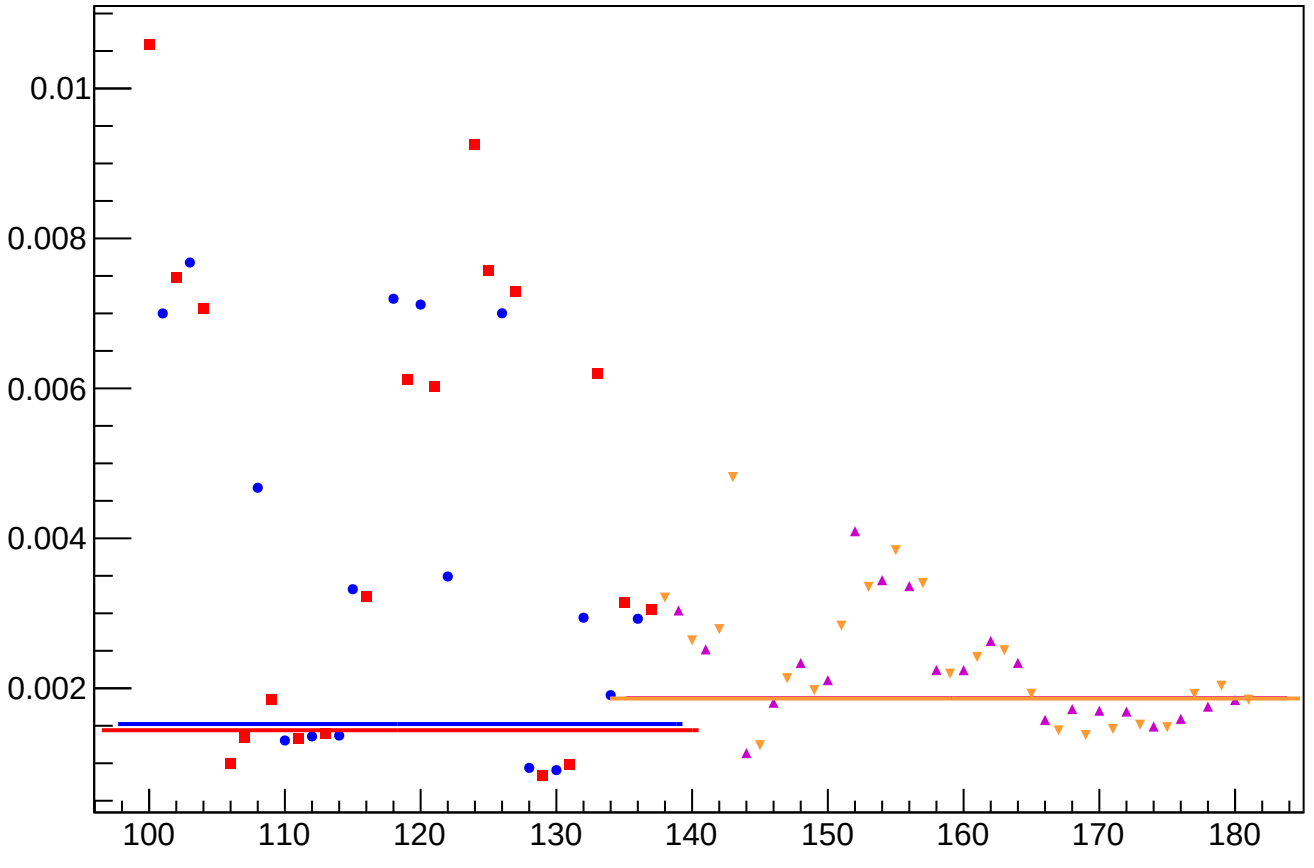
Left: 0.000+/-0.000 $\chi^2$/NDF: 66.3/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 23.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:67.9/41

All: -0.000+/-0.000 $\chi^2$/NDF: 94.2/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5182869.7/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3732707.7/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5789411.1/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:2756514.2/20

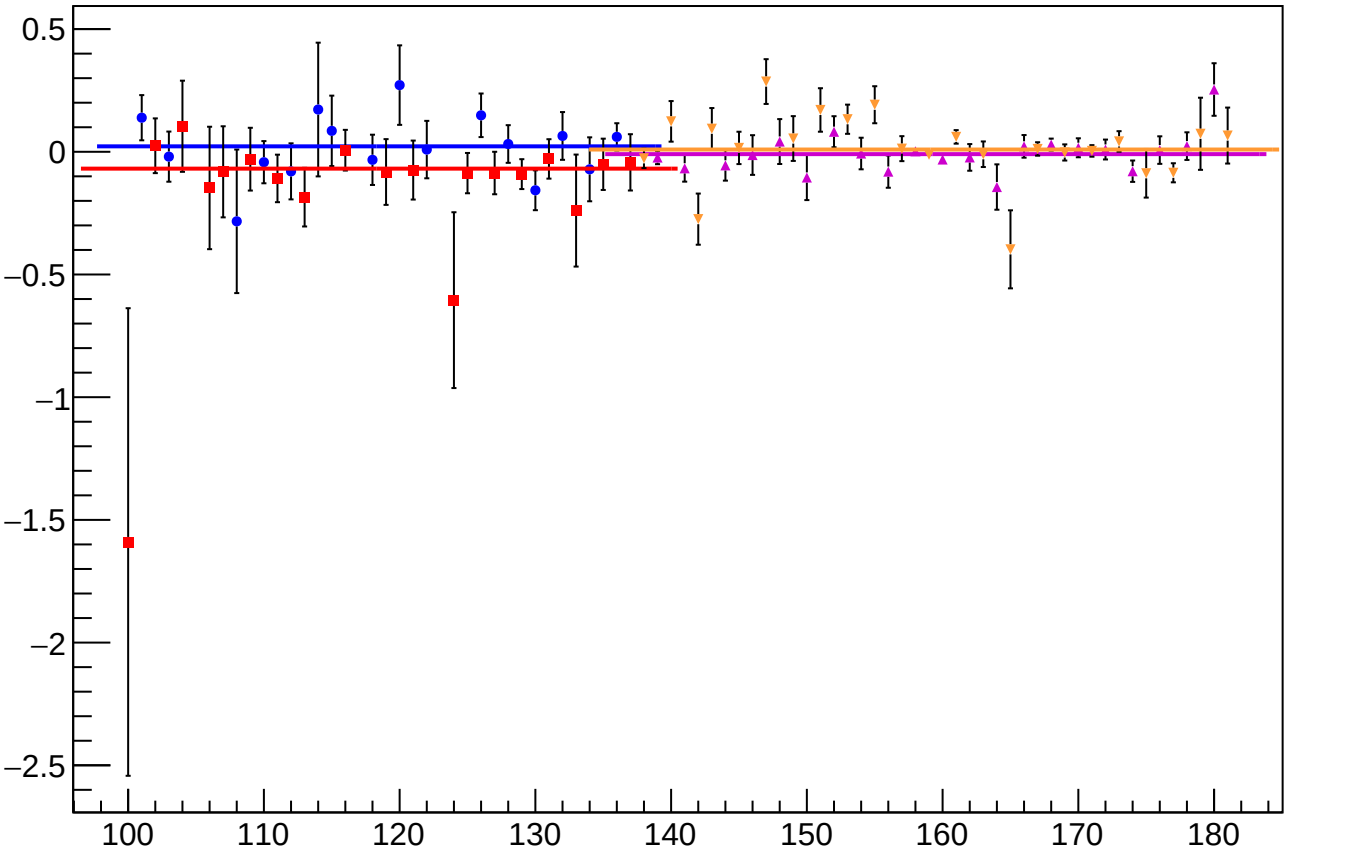
Left: 0.002+/-0.000 $\chi^2$/NDF: 6489410.9/43

Right: 0.001+/-0.000 $\chi^2$/NDF: 10985380.1/34

In: 0.002+/-0.000 $\chi^2$/NDF:8252011.3/36

Out: 0.002+/-0.000 $\chi^2$/NDF:10031597.7/41

All: 0.002+/-0.000 $\chi^2$/NDF: 18290965.1/78




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: 0.009+/-0.008 $\chi^2$/NDF:54.3/22

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.010+/-0.008 $\chi^2$/NDF:23.8/20

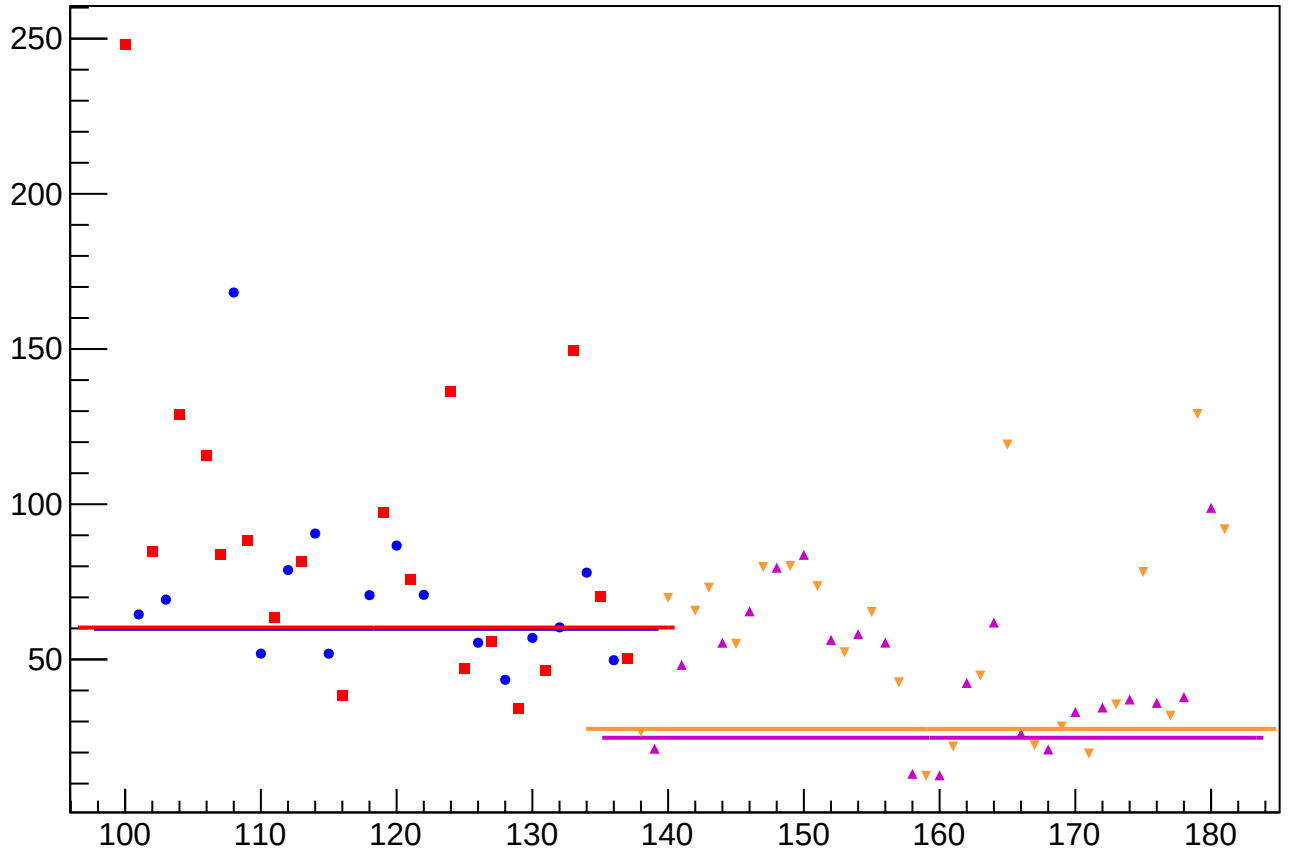
Left: -0.001+/-0.006 $\chi^2$/NDF: 80.7/43

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.007+/-0.008 $\chi^2$/NDF:40.8/36

Out: 0.001+/-0.008 $\chi^2$/NDF:72.4/41

All: -0.003+/-0.006 $\chi^2$/NDF: 113.7/78




Right In: 59.868+/-0.017 $\chi^2$/NDF: 699008.9/15

Left Out: 27.631+/-0.006 $\chi^2$/NDF:9968636.2/22

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977294.2/18

Left In: 24.761+/-0.006 $\chi^2$/NDF:8657171.8/20

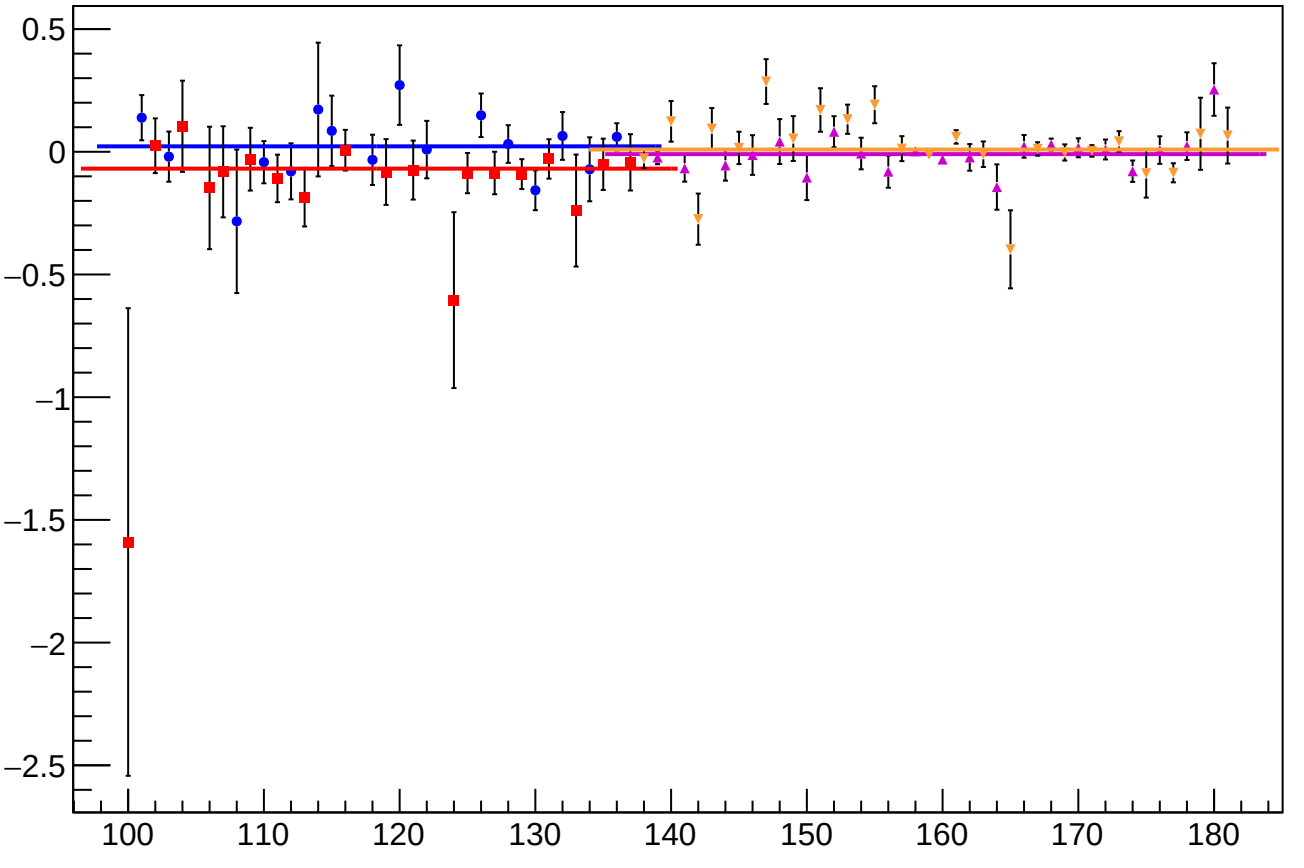
Left: 26.101+/-0.004 $\chi^2$/NDF: 18747724.2/43

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676572.8/34

In: 28.058+/-0.005 $\chi^2$/NDF:13024656.1/36

Out: 30.938+/-0.006 $\chi^2$/NDF:14944070.6/41

All: 29.409+/-0.004 $\chi^2$/NDF: 28104859.1/78




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: 0.009+/-0.008 $\chi^2$/NDF:54.3/22

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.010+/-0.008 $\chi^2$/NDF:23.8/20

Left: -0.001+/-0.006 $\chi^2$/NDF: 80.7/43

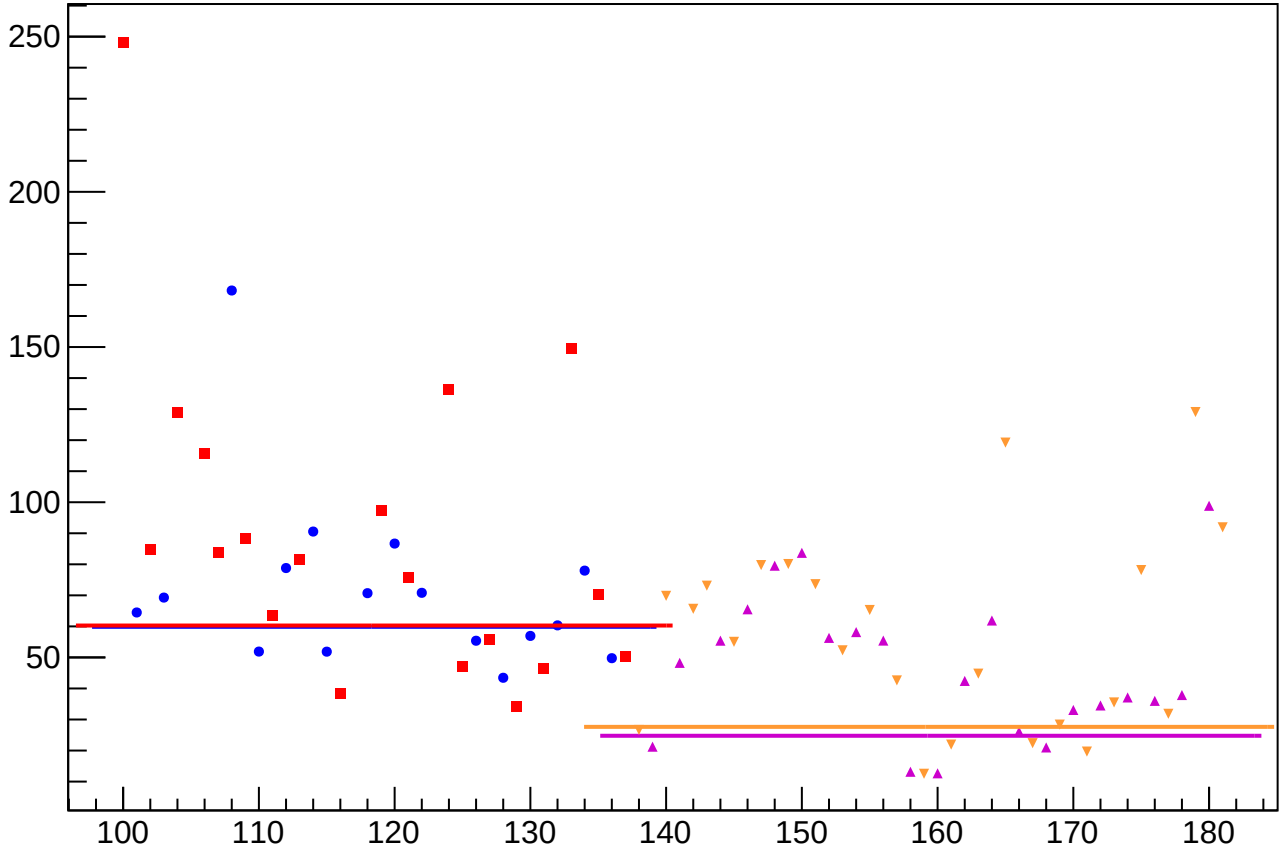
Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.007+/-0.008 $\chi^2$/NDF:40.8/36

Out: 0.001+/-0.008 $\chi^2$/NDF:72.4/41

All: -0.003+/-0.006 $\chi^2$/NDF: 113.7/78

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 59.868+/-0.017 $\chi^2$/NDF: 699008.9/15

Left Out: 27.631+/-0.006 $\chi^2$/NDF:9968636.2/22

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977294.2/18

Left In: 24.761+/-0.006 $\chi^2$/NDF:8657171.8/20

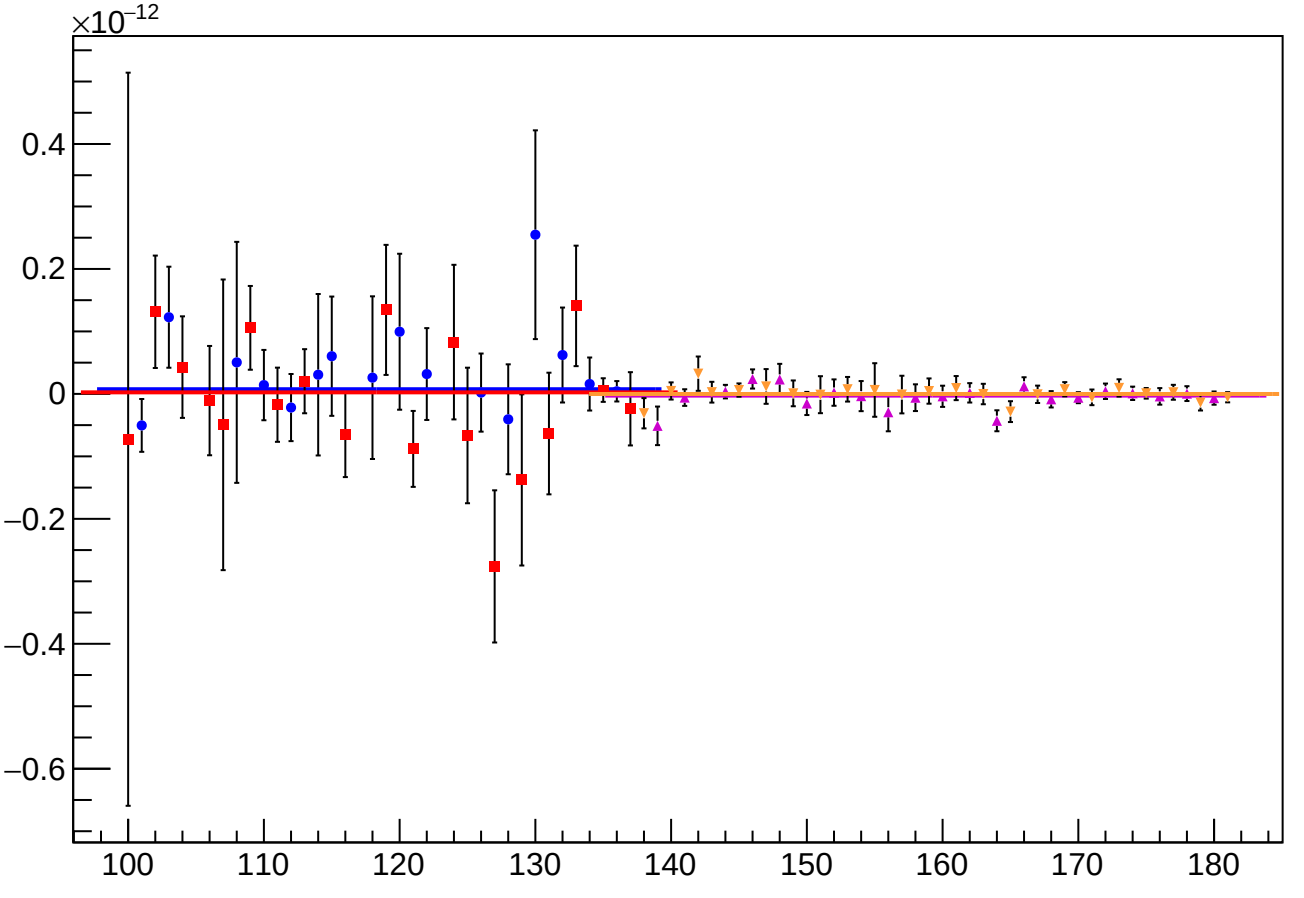
Left: 26.101+/-0.004 $\chi^2$/NDF: 18747724.2/43

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676572.8/34

In: 28.058+/-0.005 $\chi^2$/NDF:13024656.1/36

Out: 30.938+/-0.006 $\chi^2$/NDF:14944070.6/41

All: 29.409+/-0.004 $\chi^2$/NDF: 28104859.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:9.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.1/20

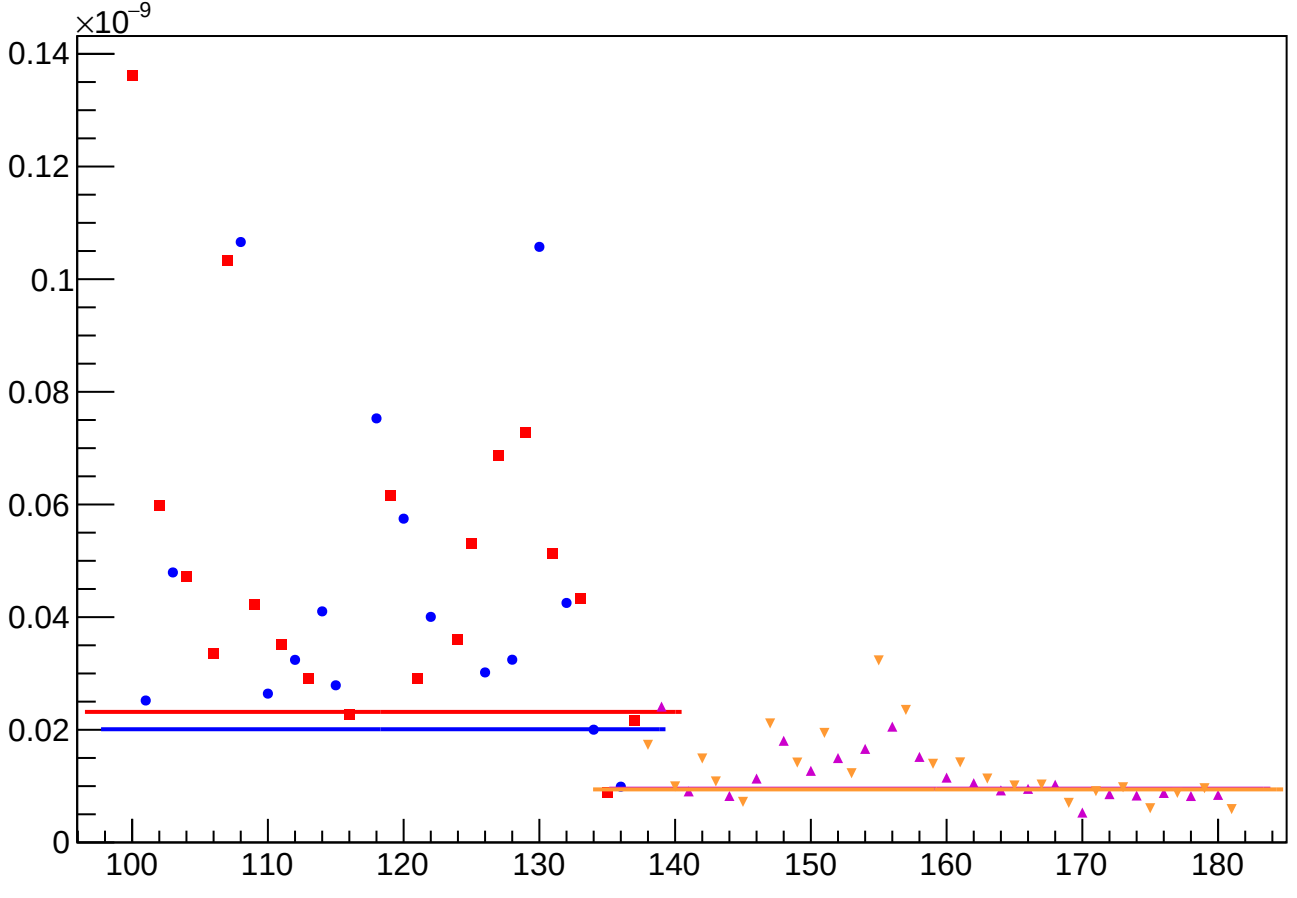
Left: -0.000+/-0.000 $\chi^2$/NDF: 26.3/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:29.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 54.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3121422.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3179122.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3530677.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2090148.4/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 5271019.0/43

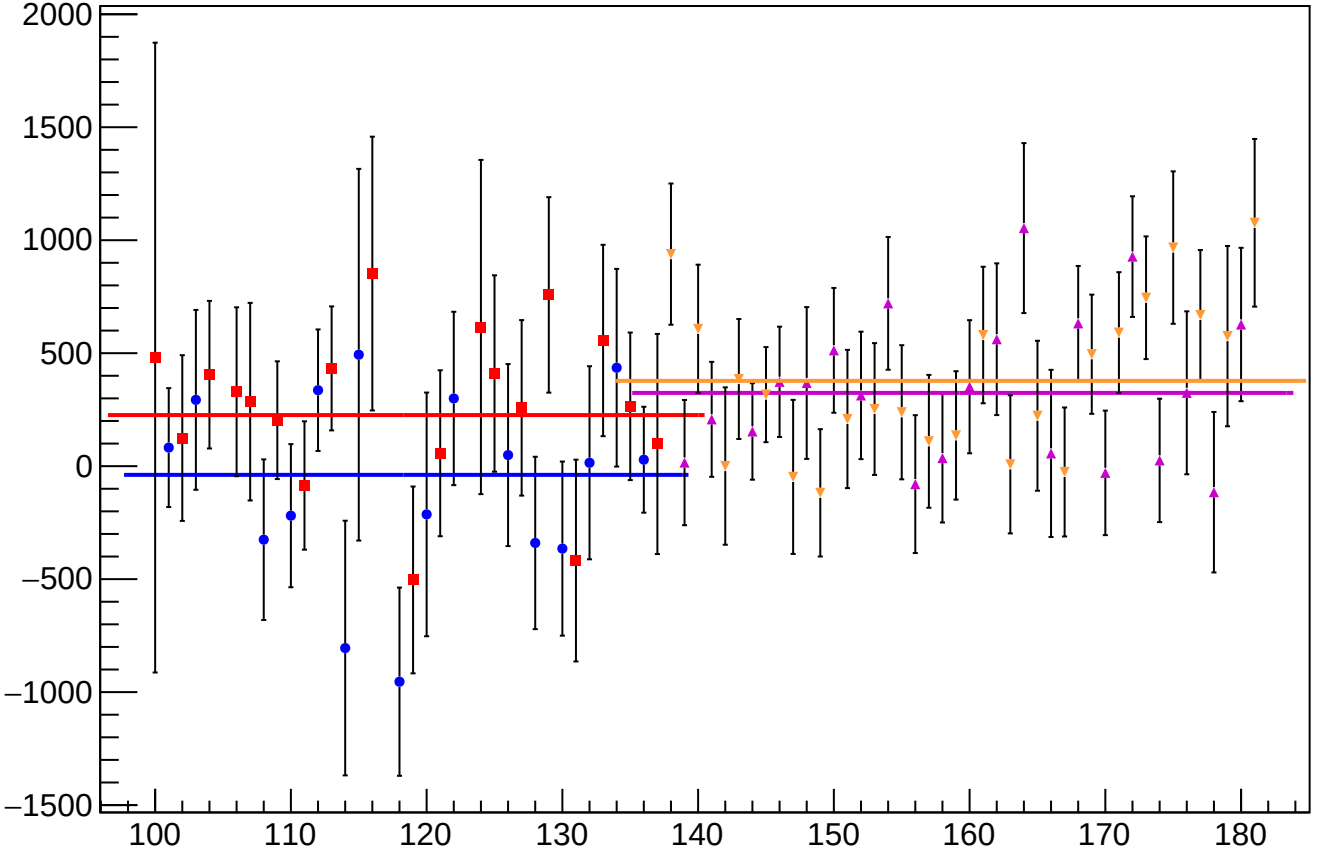
Right: 0.000+/-0.000 $\chi^2$/NDF: 6709527.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:6627788.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8681249.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15310746.7/78

# reg_asym_sam4_mean vs Slug, Sign Corrected




Right In: -38.498+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 377.552+/-61.320 $\chi^2$/NDF:26.7/22

Right Out: 226.168+/-87.908 $\chi^2$/NDF: 11.4/18

Left In: 324.278+/-63.052 $\chi^2$/NDF:23.7/20

Left: 351.656+/-43.959 $\chi^2$/NDF: 50.8/43

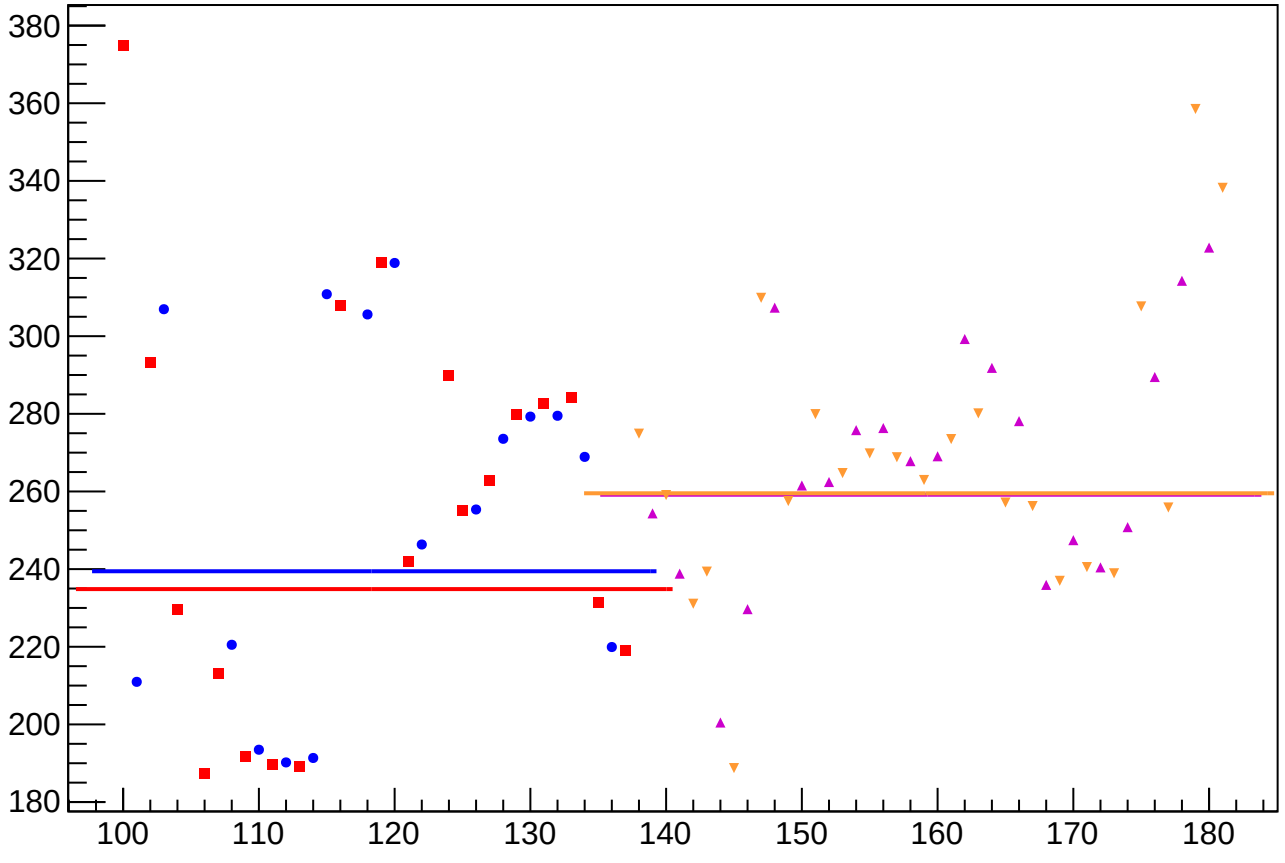
Right: 97.852+/-63.097 $\chi^2$/NDF: 30.3/34

In: 205.939+/-51.756 $\chi^2$/NDF:49.0/36

Out: 328.001+/-50.293 $\chi^2$/NDF:40.1/41

All: 268.720+/-36.069 $\chi^2$/NDF: 92.0/78

# reg_asym_sam4_rms vs Slug, Sign Corrected




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400955.7/15

Left Out: 259.534+/-0.043 $\chi^2$/NDF:617902.5/22

Right Out: 234.855+/-0.062 $\chi^2$/NDF: 481715.3/18

Left In: 259.157+/-0.045 $\chi^2$/NDF:465559.2/20

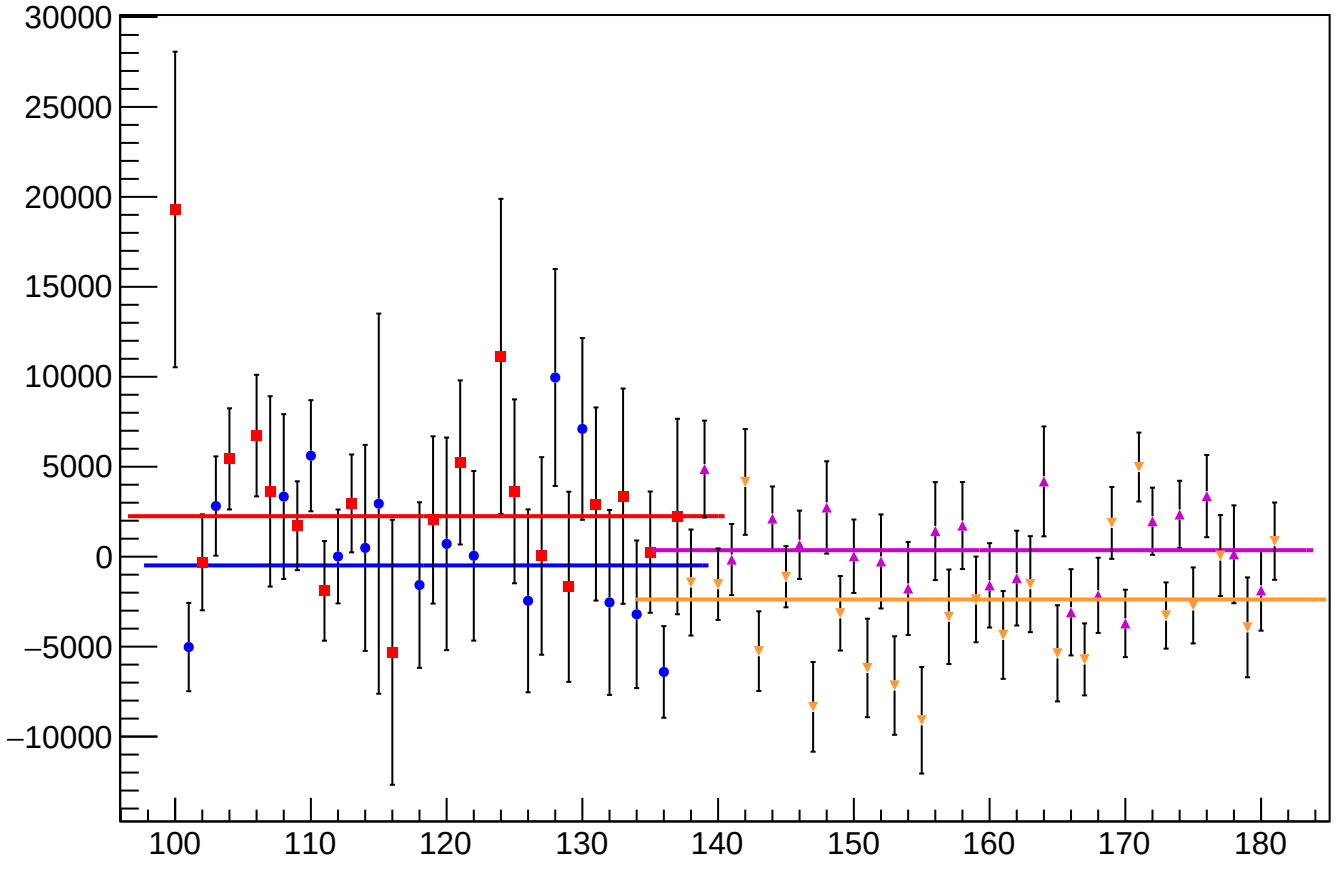
Left: 259.351+/-0.031 $\chi^2$/NDF: 1083498.5/43

Right: 237.082+/-0.045 $\chi^2$/NDF: 885319.7/34

In: 252.728+/-0.037 $\chi^2$/NDF:930252.9/36

Out: 251.456+/-0.036 $\chi^2$/NDF:1205653.8/41

All: 252.074+/-0.026 $\chi^2$/NDF: 2136528.0/78




Right In: -485.932+/-947.459 $\chi^2$/NDF: 21.1/15

Left Out: -2379.145+/-475.902 $\chi^2$/NDF:51.7/22

Right Out: 2251.898+/-894.171 $\chi^2$/NDF: 13.9/18

Left In: 360.544+/-487.940 $\chi^2$/NDF:21.4/20

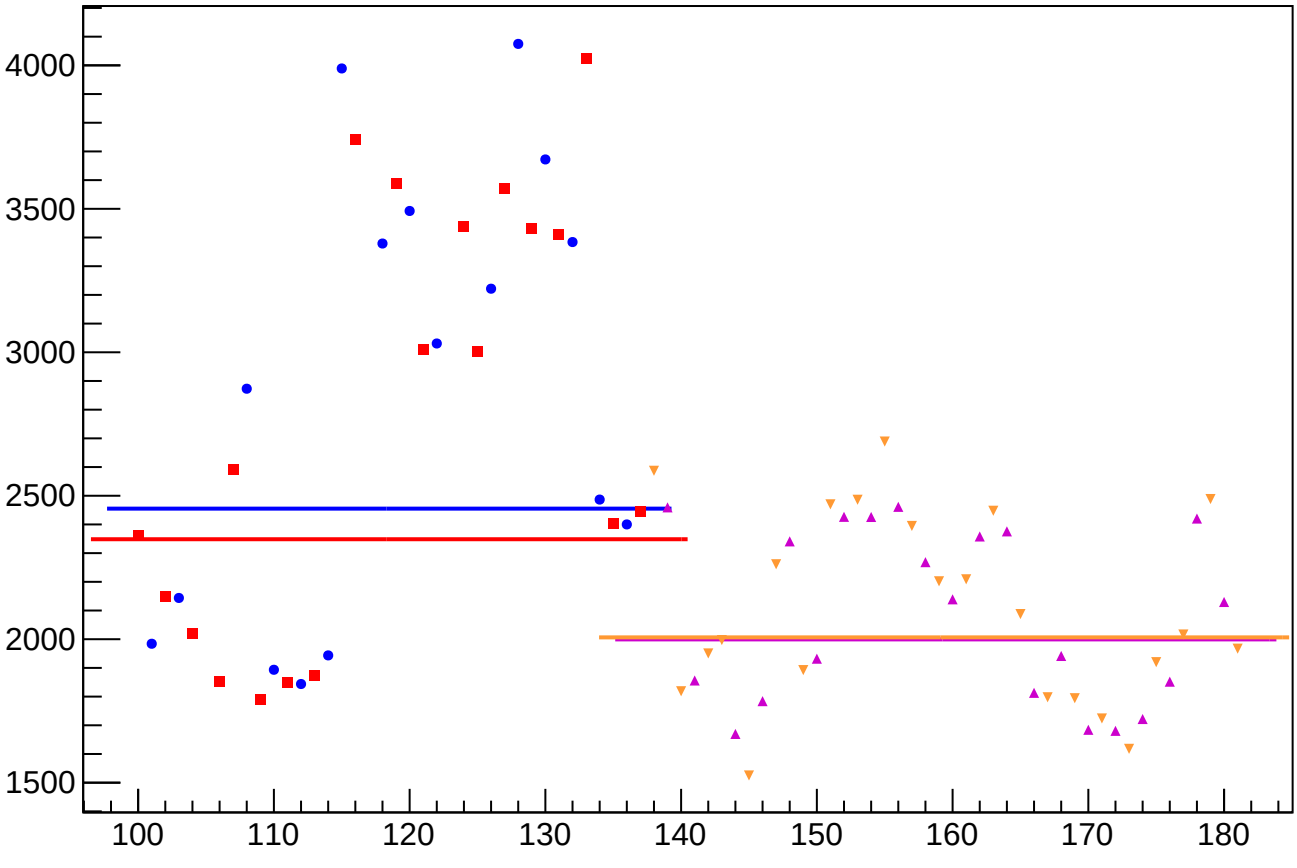
Left: -1043.512+/-340.690 $\chi^2$/NDF: 89.3/43

Right: 962.136+/-650.297 $\chi^2$/NDF: 39.4/34

In: 183.101+/-433.793 $\chi^2$/NDF:43.2/36

Out: -1356.896+/-420.107 $\chi^2$/NDF:86.5/41

All: -611.575+/-301.783 $\chi^2$/NDF: 136.2/78




Right In: 2455.103+/-0.670 $\chi^2$/NDF: 894389.6/15

Left Out: 2006.395+/-0.337 $\chi^2$/NDF:877392.6/22

Right Out: 2348.446+/-0.632 $\chi^2$/NDF: 1052421.6/18

Left In: 1999.338+/-0.345 $\chi^2$/NDF:701001.0/20

Left: 2002.955+/-0.241 $\chi^2$/NDF: 1578607.9/43

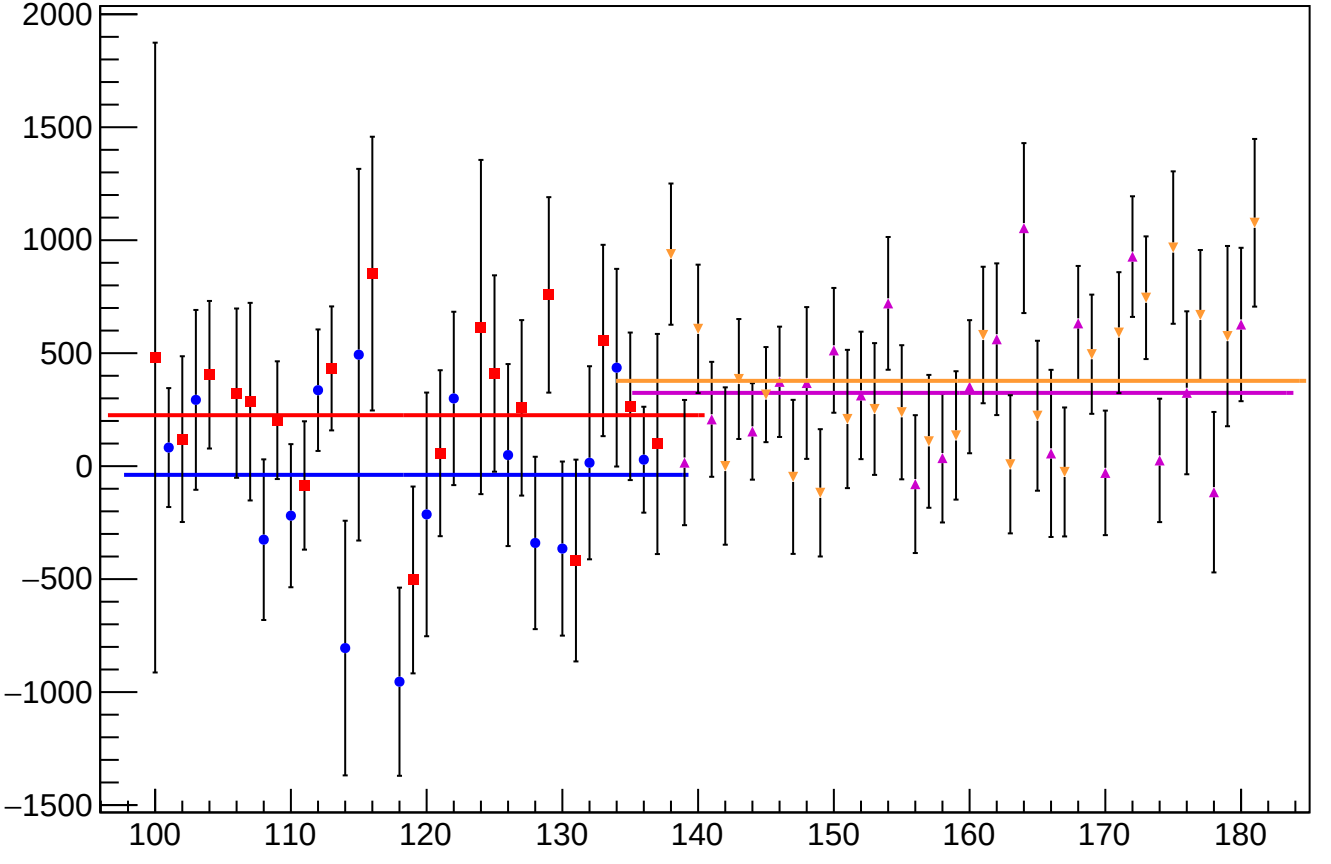
Right: 2398.691+/-0.460 $\chi^2$/NDF: 1960216.3/34

In: 2094.878+/-0.307 $\chi^2$/NDF:1961173.0/36

Out: 2081.898+/-0.297 $\chi^2$/NDF:2157877.4/41

All: 2088.180+/-0.213 $\chi^2$/NDF: 4119974.5/78

# cor_asym_sam4_mean vs Slug, Sign Corrected




Right In: -38.519+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 377.566+/-61.320 $\chi^2$/NDF:26.7/22

Right Out: 225.515+/-87.922 $\chi^2$/NDF: 11.4/18

Left In: 324.282+/-63.052 $\chi^2$/NDF:23.7/20

Left: 351.665+/-43.959 $\chi^2$/NDF: 50.8/43

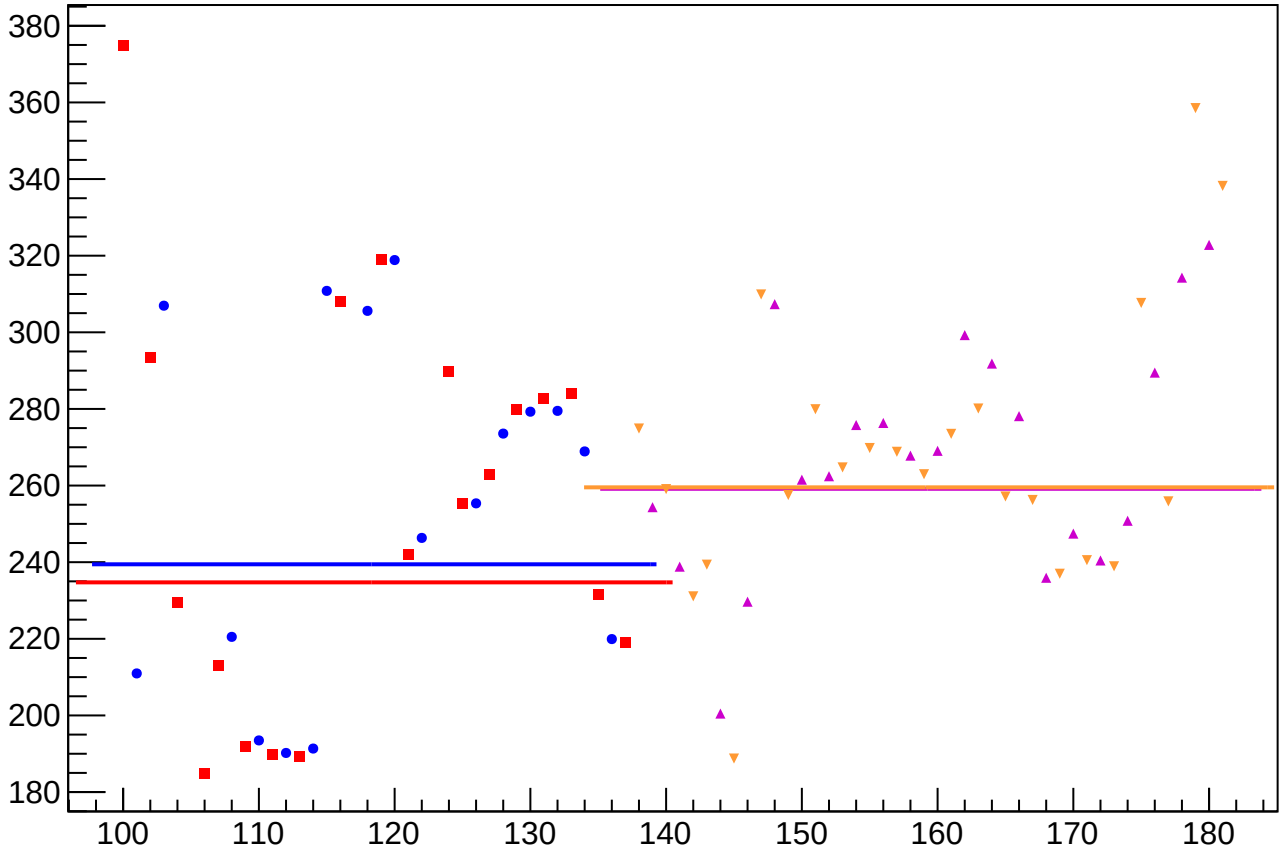
Right: 97.485+/-63.102 $\chi^2$/NDF: 30.3/34

In: 205.935+/-51.756 $\chi^2$/NDF:49.0/36

Out: 327.808+/-50.296 $\chi^2$/NDF:40.2/41

All: 268.615+/-36.070 $\chi^2$/NDF: 92.0/78

# cor_asym_sam4_rms vs Slug, Sign Corrected




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400958.1/15

Left Out: 259.534+/-0.043 $\chi^2$/NDF:617902.5/22

Right Out: 234.733+/-0.062 $\chi^2$/NDF: 485238.4/18

Left In: 259.157+/-0.045 $\chi^2$/NDF:465559.2/20

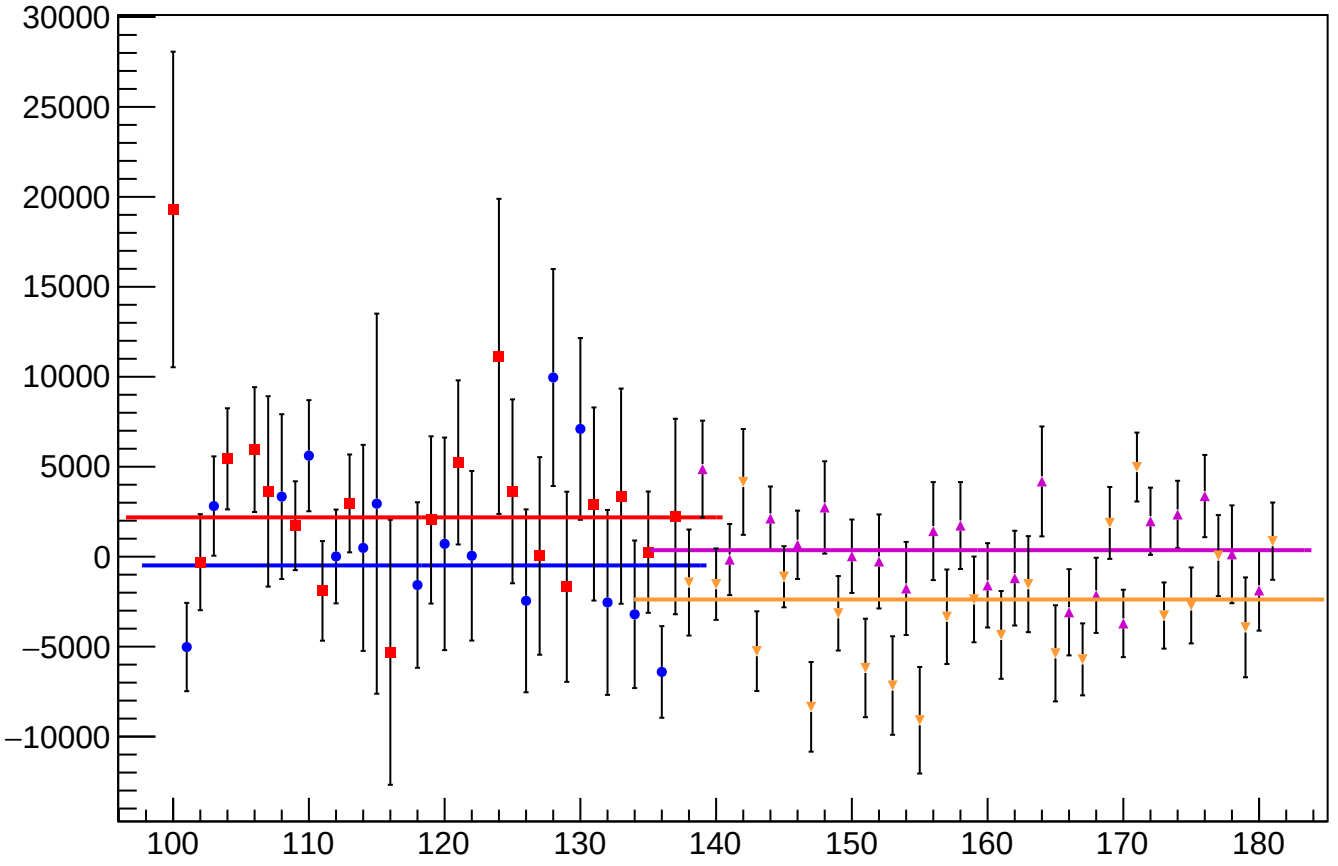
Left: 259.351+/-0.031 $\chi^2$/NDF: 1083498.6/43

Right: 237.020+/-0.045 $\chi^2$/NDF: 888987.0/34

In: 252.728+/-0.037 $\chi^2$/NDF:930254.9/36

Out: 251.418+/-0.036 $\chi^2$/NDF:1210202.9/41

All: 252.054+/-0.026 $\chi^2$/NDF: 2141117.0/78




Right In: -486.103+/-947.467 $\chi^2$/NDF: 21.1/15

Left Out: -2379.131+/-475.902 $\chi^2$/NDF:51.7/22

Right Out: 2184.834+/-895.863 $\chi^2$/NDF: 13.3/18

Left In: 360.549+/-487.940 $\chi^2$/NDF:21.4/20

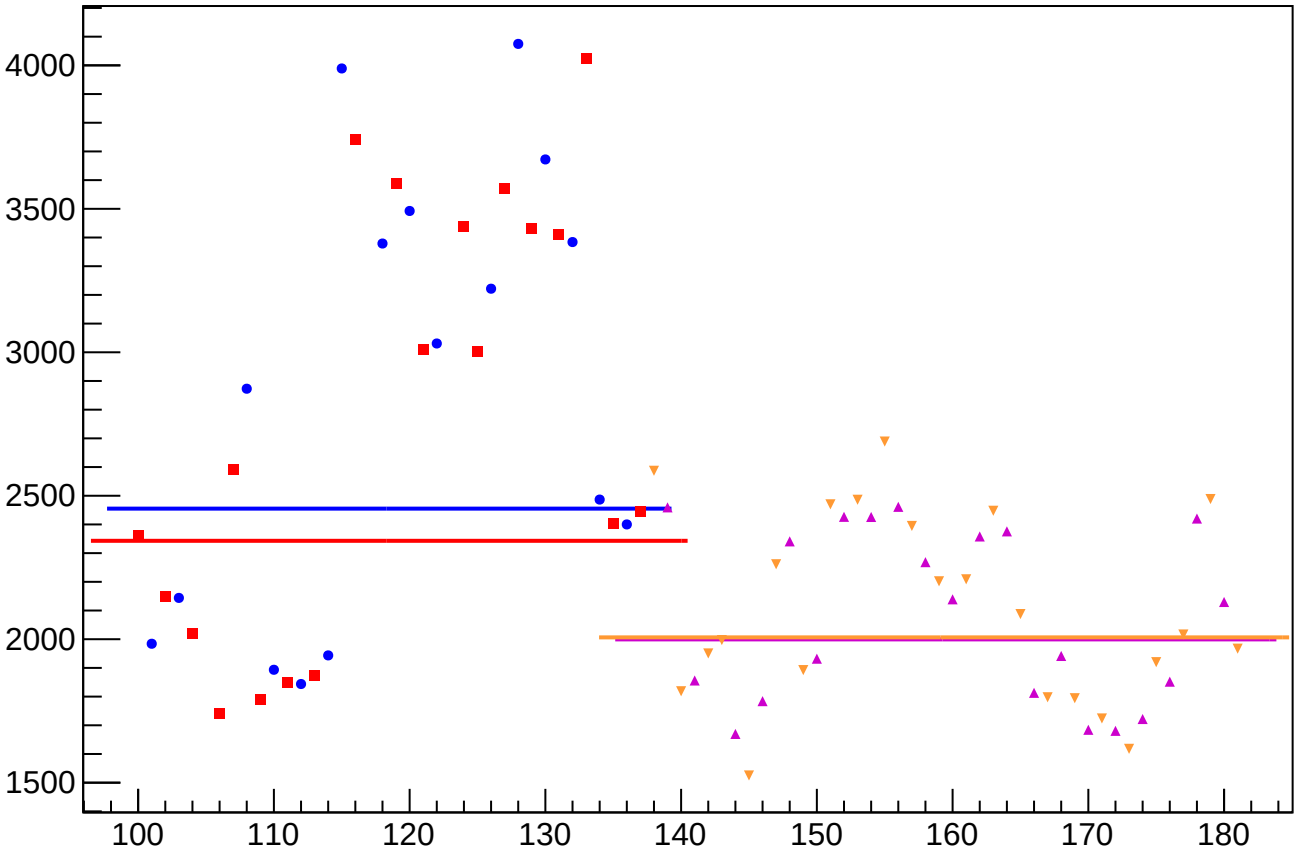
Left: -1043.502+/-340.690 $\chi^2$/NDF: 89.3/43

Right: 924.081+/-650.950 $\chi^2$/NDF: 38.6/34

In: 183.071+/-433.794 $\chi^2$/NDF:43.2/36

Out: -1374.653+/-420.282 $\chi^2$/NDF:85.2/41

All: -620.430+/-301.848 $\chi^2$/NDF: 135.0/78




Right In: 2455.127+/-0.670 $\chi^2$/NDF: 894358.3/15

Left Out: 2006.394+/-0.337 $\chi^2$/NDF:877393.2/22

Right Out: 2342.955+/-0.633 $\chi^2$/NDF: 1070387.8/18

Left In: 1999.339+/-0.345 $\chi^2$/NDF:701001.6/20

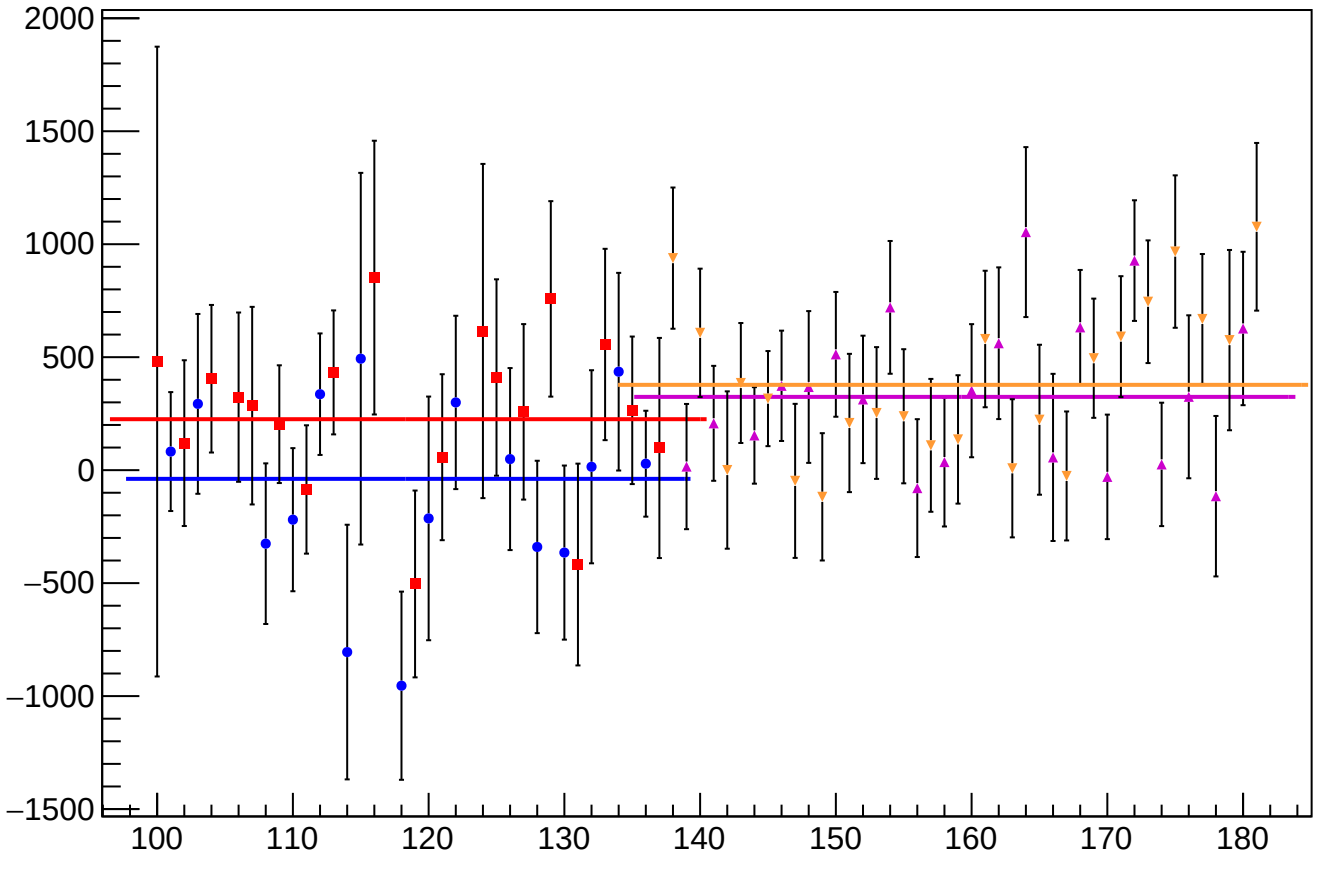
Left: 2002.955+/-0.241 $\chi^2$/NDF: 1578609.2/43

Right: 2395.904+/-0.460 $\chi^2$/NDF: 1979546.8/34

In: 2094.883+/-0.307 $\chi^2$/NDF:1961175.8/36

Out: 2080.468+/-0.297 $\chi^2$/NDF:2167931.5/41

All: 2087.447+/-0.213 $\chi^2$/NDF: 4130246.5/78




Right In: -38.519+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 377.566+/-61.320 $\chi^2$/NDF:26.7/22

Right Out: 225.515+/-87.922 $\chi^2$/NDF: 11.4/18

Left In: 324.282+/-63.052 $\chi^2$/NDF:23.7/20

Left: 351.665+/-43.959 $\chi^2$/NDF: 50.8/43

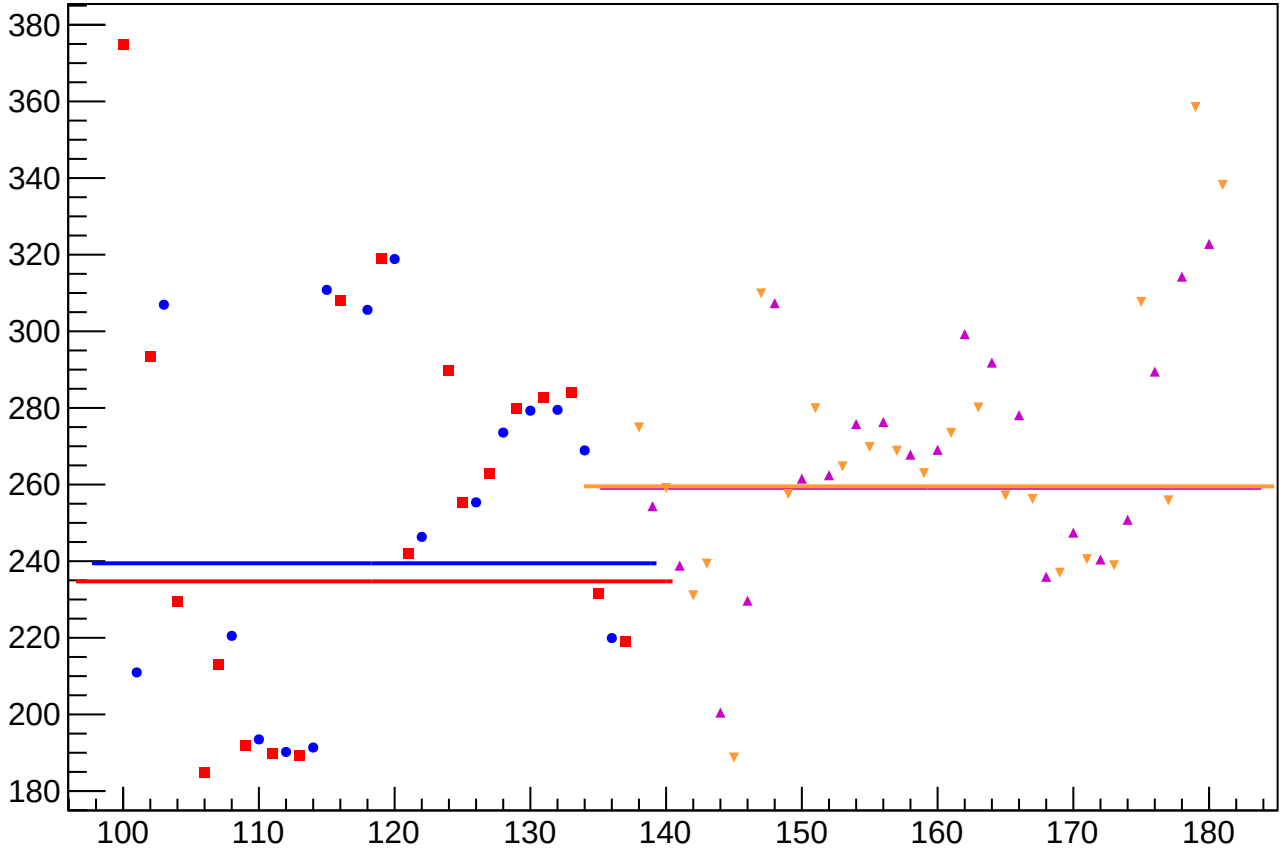
Right: 97.485+/-63.102 $\chi^2$/NDF: 30.3/34

In: 205.935+/-51.756 $\chi^2$/NDF:49.0/36

Out: 327.808+/-50.296 $\chi^2$/NDF:40.2/41

All: 268.615+/-36.070 $\chi^2$/NDF: 92.0/78

# eigen_cor_asym_sam4_rms vs Slug, Sign Corrected




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400958.1/15

Left Out: 259.534+/-0.043 $\chi^2$/NDF:617902.5/22

Right Out: 234.733+/-0.062 $\chi^2$/NDF: 485238.4/18

Left In: 259.157+/-0.045 $\chi^2$/NDF:465559.2/20

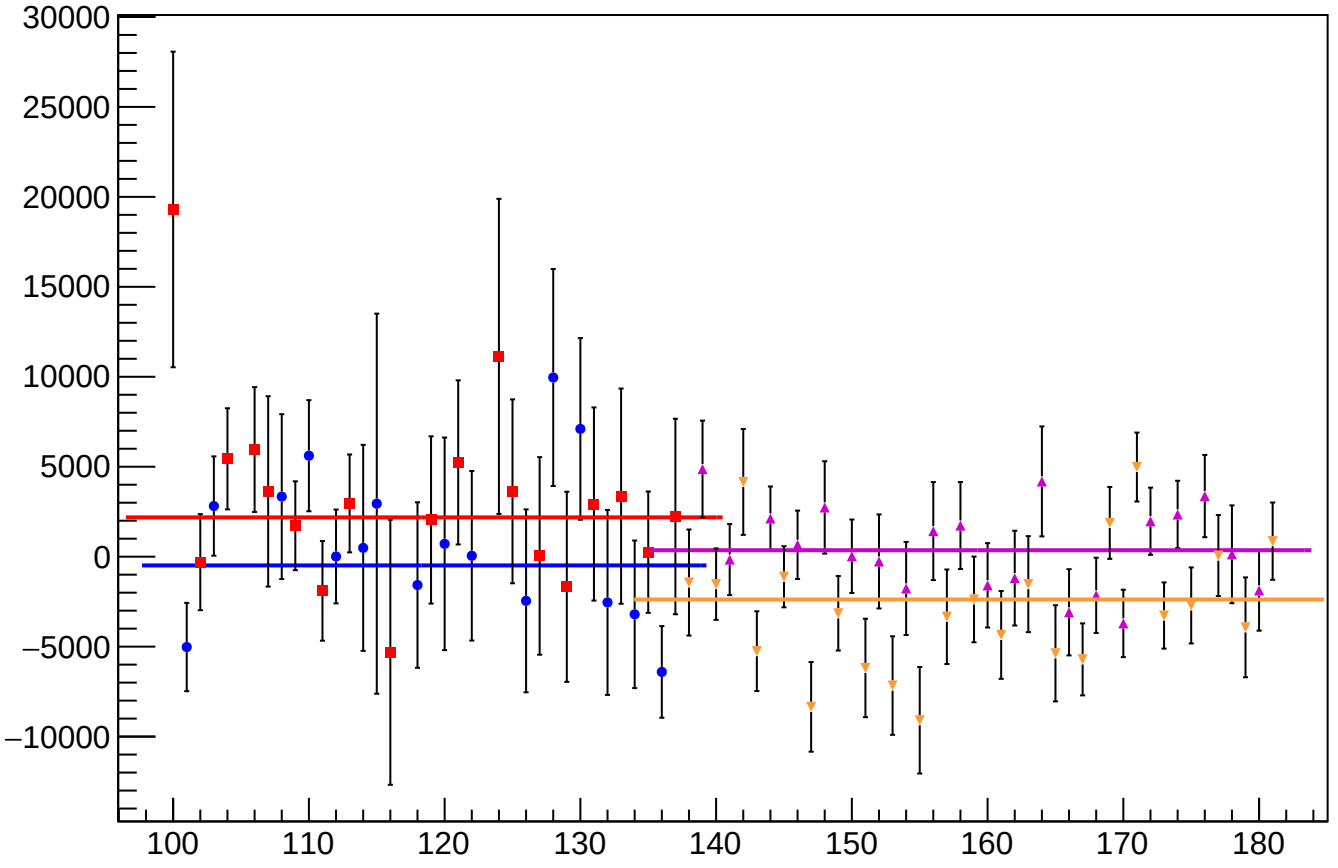
Left: 259.351+/-0.031 $\chi^2$/NDF: 1083498.6/43

Right: 237.020+/-0.045 $\chi^2$/NDF: 888987.0/34

In: 252.728+/-0.037 $\chi^2$/NDF:930254.9/36

Out: 251.418+/-0.036 $\chi^2$/NDF:1210202.9/41

All: 252.054+/-0.026 $\chi^2$/NDF: 2141117.0/78




Right In: -486.103+/-947.467 $\chi^2$/NDF: 21.1/15

Left Out: -2379.131+/-475.902 $\chi^2$/NDF:51.7/22

Right Out: 2184.834+/-895.863 $\chi^2$/NDF: 13.3/18

Left In: 360.549+/-487.940 $\chi^2$/NDF:21.4/20

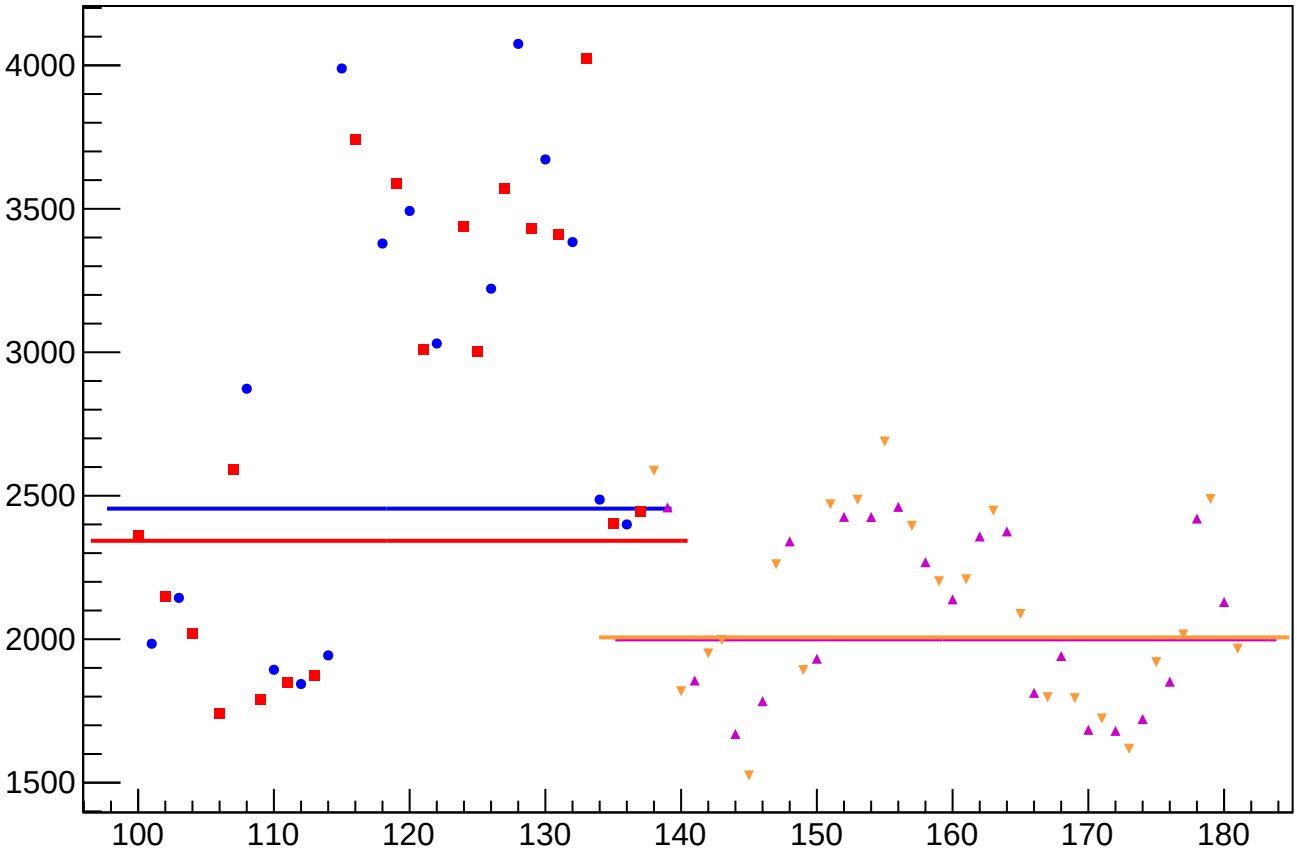
Left: -1043.502+/-340.690 $\chi^2$/NDF: 89.3/43

Right: 924.081+/-650.950 $\chi^2$/NDF: 38.6/34

In: 183.071+/-433.794 $\chi^2$/NDF:43.2/36

Out: -1374.653+/-420.282 $\chi^2$/NDF:85.2/41

All: -620.430+/-301.848 $\chi^2$/NDF: 135.0/78




Right In: 2455.127+/-0.670 $\chi^2$/NDF: 894358.3/15

Left Out: 2006.394+/-0.337 $\chi^2$/NDF:877393.2/22

Right Out: 2342.955+/-0.633 $\chi^2$/NDF: 1070387.8/18

Left In: 1999.339+/-0.345 $\chi^2$/NDF:701001.6/20

Left: 2002.955+/-0.241 $\chi^2$/NDF: 1578609.2/43

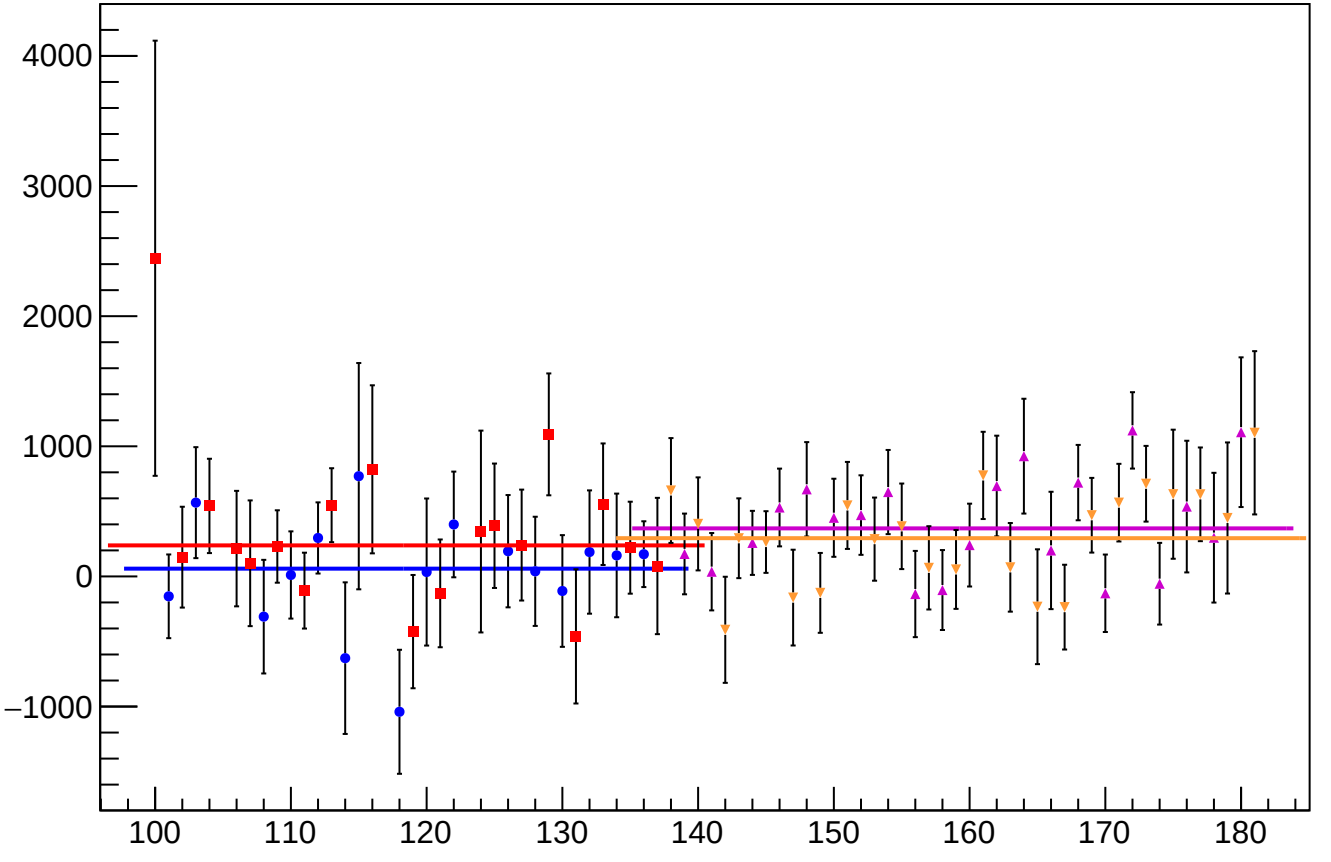
Right: 2395.904+/-0.460 $\chi^2$/NDF: 1979546.8/34

In: 2094.883+/-0.307 $\chi^2$/NDF:1961175.8/36

Out: 2080.468+/-0.297 $\chi^2$/NDF:2167931.5/41

All: 2087.447+/-0.213 $\chi^2$/NDF: 4130246.5/78

# dit_asym_sam4_mean vs Slug, Sign Corrected




Right In: 59.728+/-99.230 $\chi^2$/NDF: 12.0/15

Left Out: 293.900+/-70.772 $\chi^2$/NDF:22.1/22

Right Out: 238.516+/-95.062 $\chi^2$/NDF: 14.9/18

Left In: 369.223+/-72.430 $\chi^2$/NDF:25.5/20

Left: 330.690+/-50.619 $\chi^2$/NDF: 48.1/43

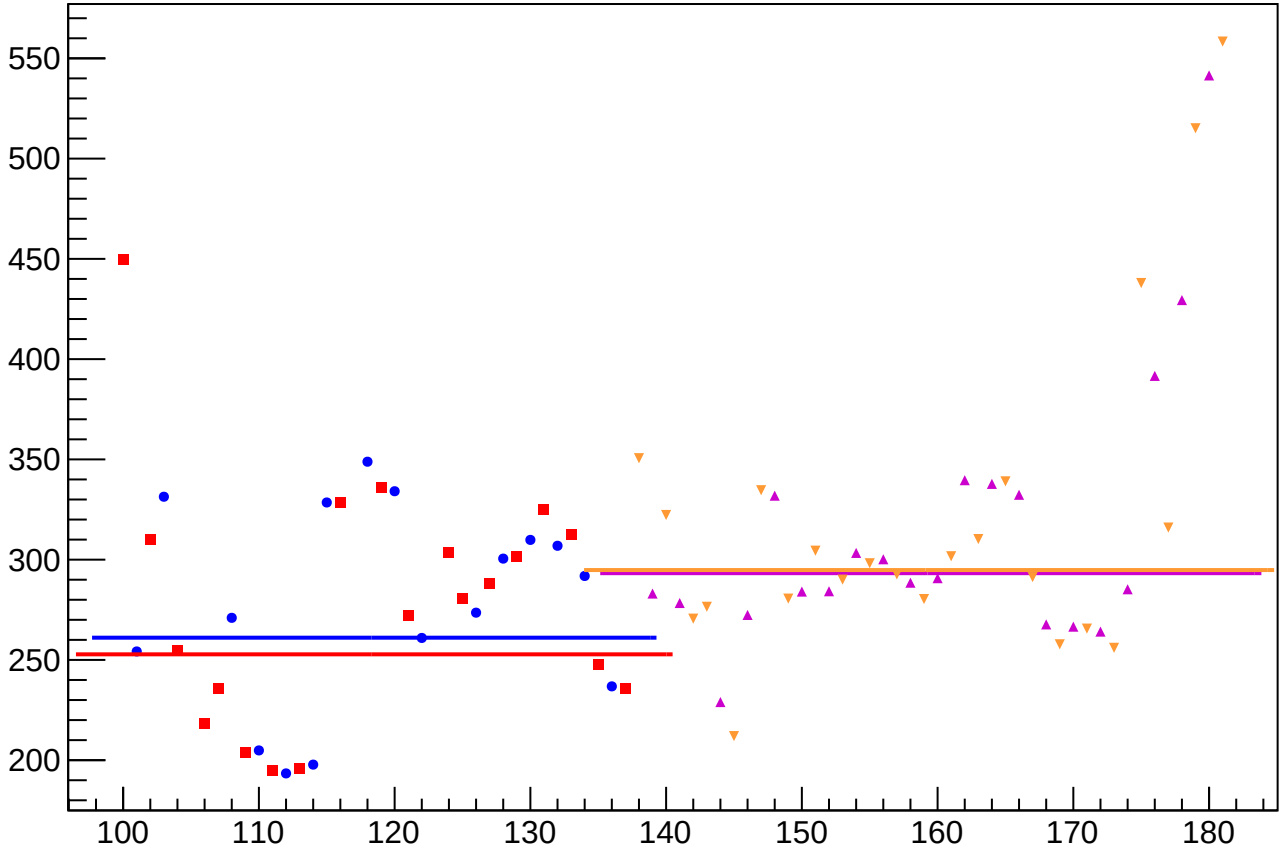
Right: 152.955+/-68.645 $\chi^2$/NDF: 28.6/34

In: 261.644+/-58.503 $\chi^2$/NDF:43.9/36

Out: 274.150+/-56.768 $\chi^2$/NDF:37.2/41

All: 268.085+/-40.740 $\chi^2$/NDF: 81.1/78

# dit_asym_sam4_rms vs Slug, Sign Corrected




Right In: 261.089+/-0.070 $\chi^2$/NDF: 462662.2/15

Left Out: 294.816+/-0.050 $\chi^2$/NDF:1270960.0/22

Right Out: 252.787+/-0.067 $\chi^2$/NDF: 537290.6/18

Left In: 293.262+/-0.051 $\chi^2$/NDF:896977.3/20

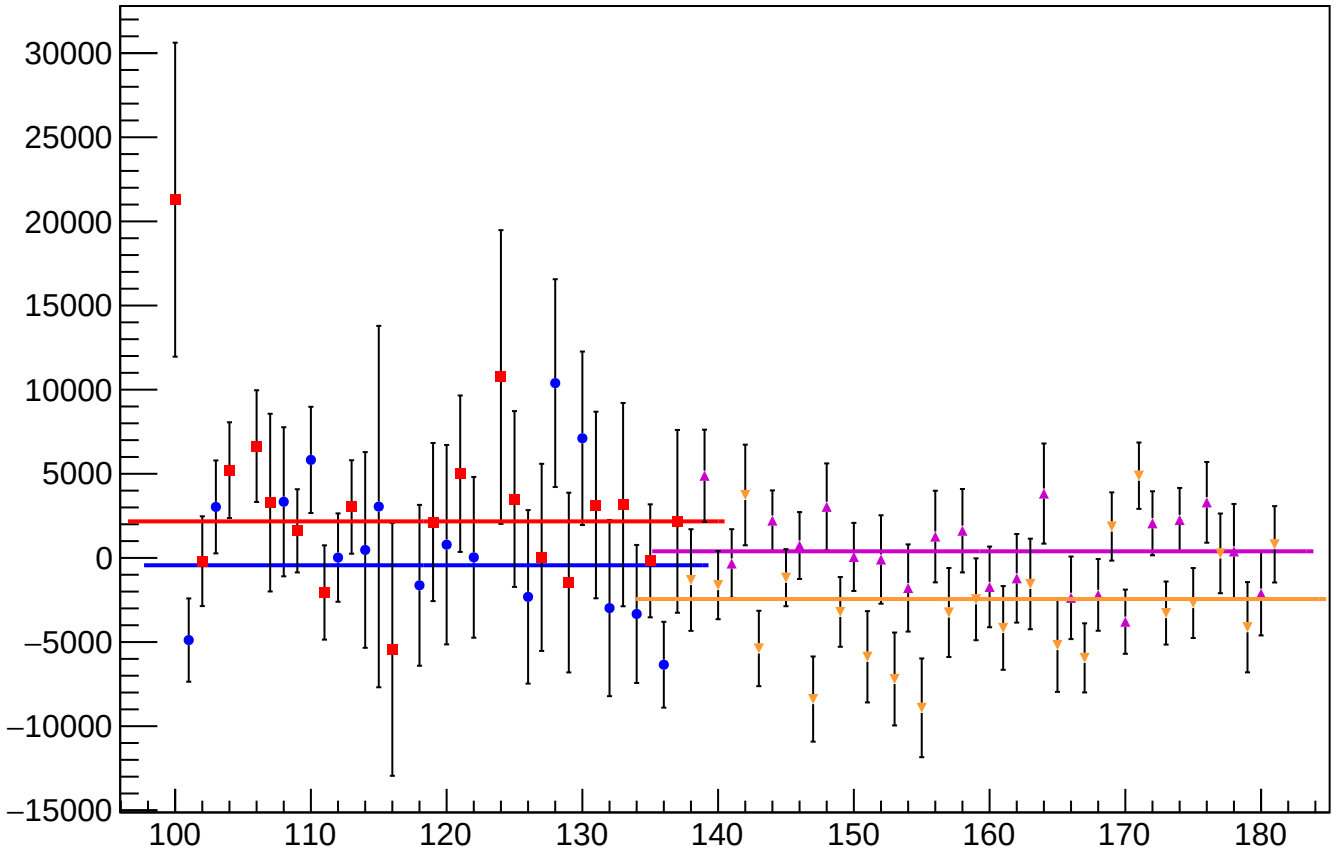
Left: 294.057+/-0.036 $\chi^2$/NDF: 2168408.8/43

Right: 256.760+/-0.049 $\chi^2$/NDF: 1007252.4/34

In: 282.078+/-0.041 $\chi^2$/NDF:1496803.1/36

Out: 279.829+/-0.040 $\chi^2$/NDF:2059783.0/41

All: 280.920+/-0.029 $\chi^2$/NDF: 3558109.7/78




Right In: -436.732+/-955.134 $\chi^2$/NDF: 21.2/15

Left Out: -2443.837+/-482.852 $\chi^2$/NDF:48.8/22

Right Out: 2172.091+/-901.102 $\chi^2$/NDF: 14.0/18

Left In: 392.939+/-498.067 $\chi^2$/NDF:20.3/20

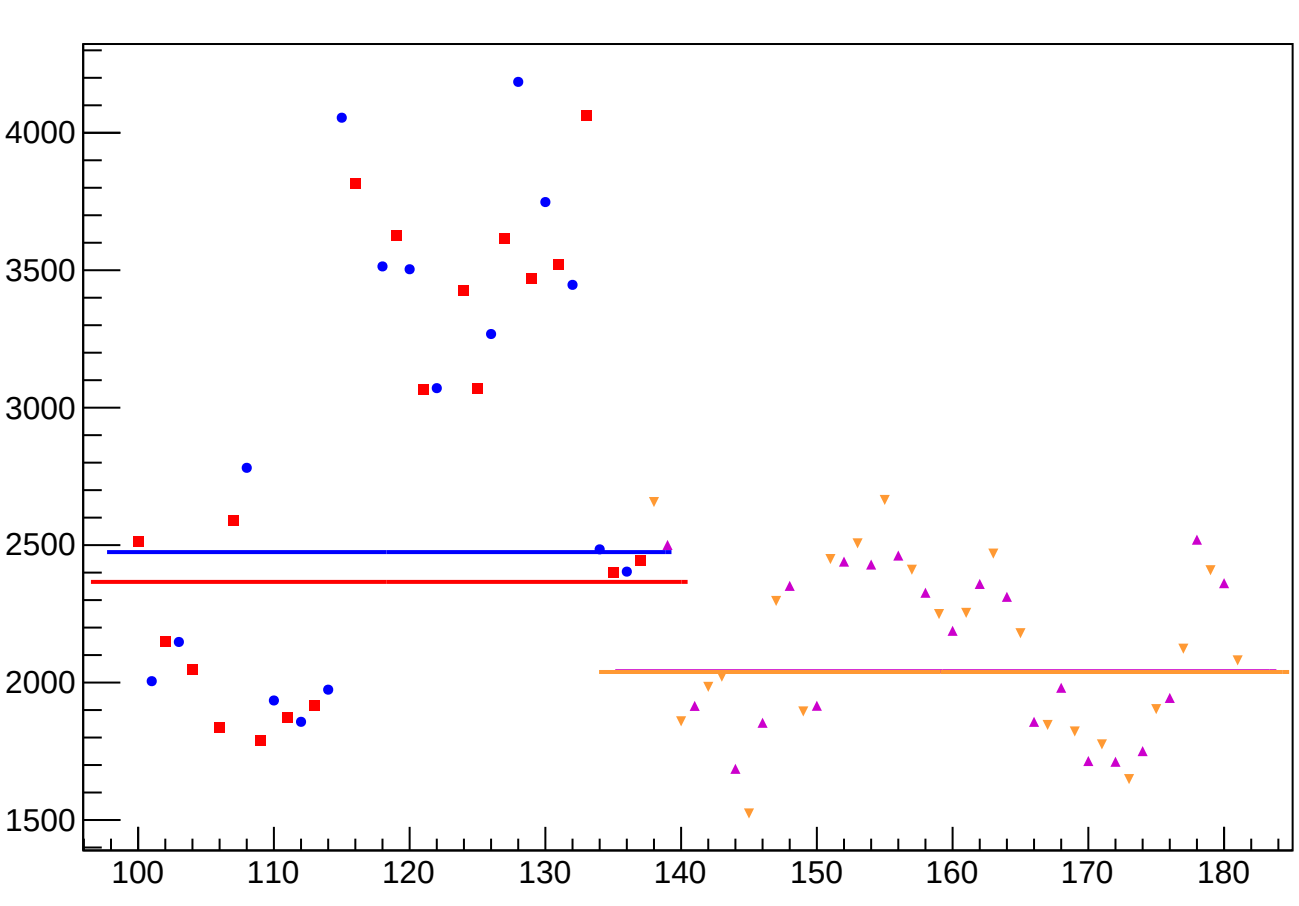
Left: -1069.441+/-346.682 $\chi^2$/NDF: 85.8/43

Right: 943.553+/-655.445 $\chi^2$/NDF: 39.1/34

In: 215.564+/-441.629 $\chi^2$/NDF:42.1/36

Out: -1414.124+/-425.601 $\chi^2$/NDF:83.2/41

All: -629.390+/-306.455 $\chi^2$/NDF: 132.3/78




Right In: 2474.622+/-0.675 $\chi^2$/NDF: 916250.9/15

Left Out: 2038.475+/-0.341 $\chi^2$/NDF:847612.3/22

Right Out: 2366.221+/-0.637 $\chi^2$/NDF: 1077175.3/18

Left In: 2041.354+/-0.352 $\chi^2$/NDF:687605.2/20

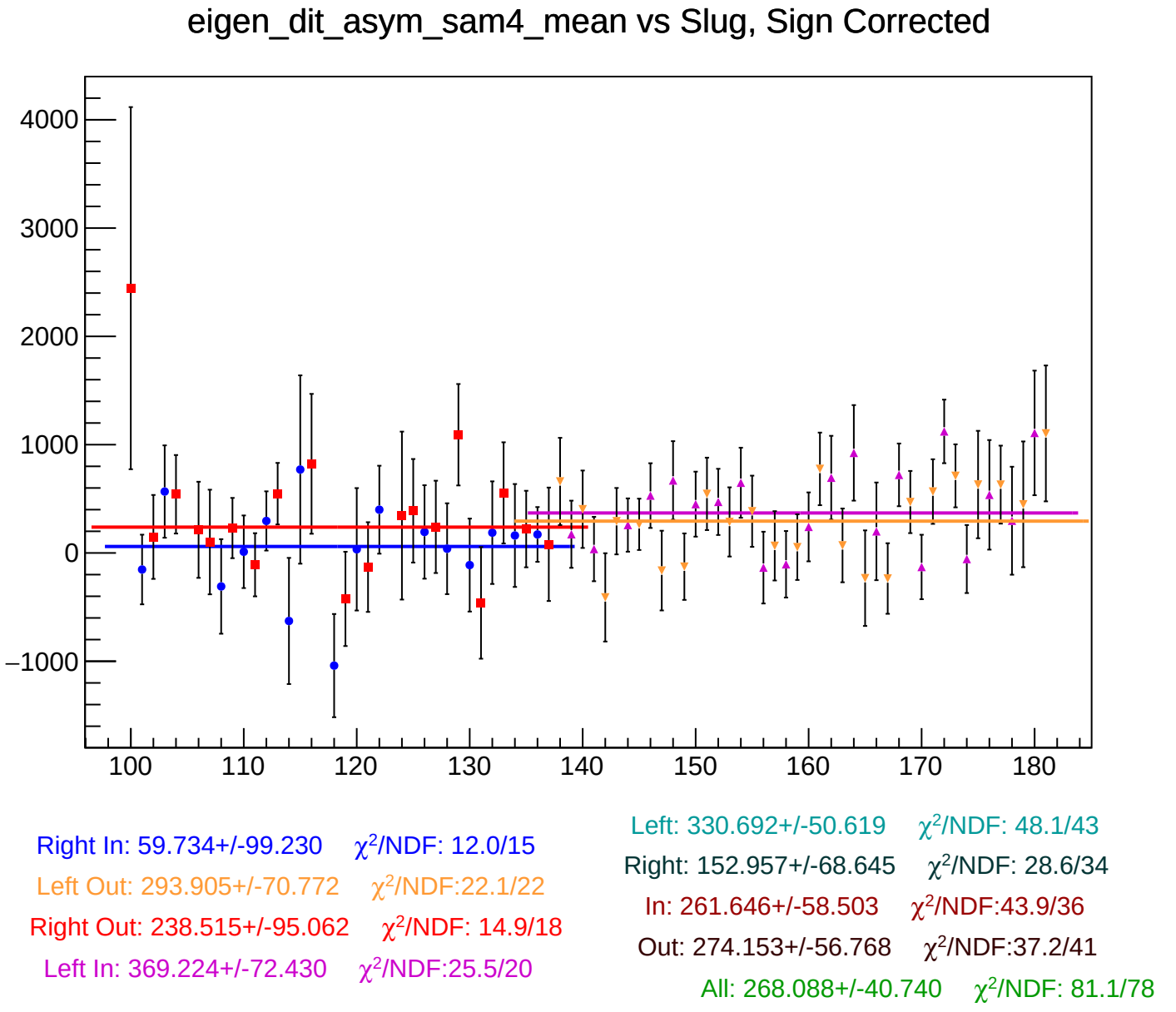
Left: 2039.870+/-0.245 $\chi^2$/NDF: 1535251.9/43

Right: 2417.269+/-0.463 $\chi^2$/NDF: 2007056.0/34

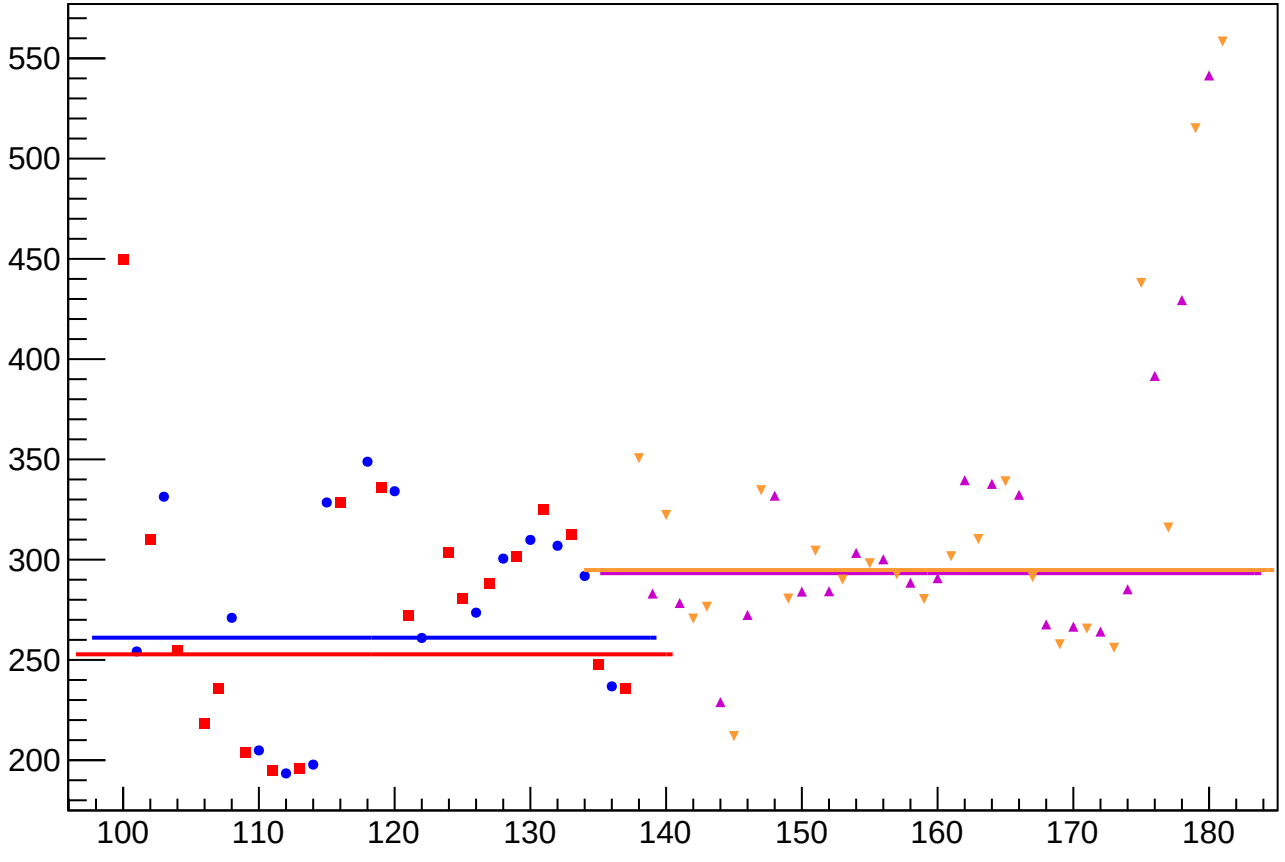
In: 2133.982+/-0.312 $\chi^2$/NDF:1927414.5/36

Out: 2111.588+/-0.301 $\chi^2$/NDF:2130345.2/41

All: 2122.372+/-0.217 $\chi^2$/NDF: 4060426.0/78


eigen_dit_asym_sam4_mean vs Slug, Sign Corrected
4000
3000
2000
1000
0
−1000
100
110
120
130
140
150
160
170
180
Right In: 59.734+/-99.230 χ²/NDF: 12.0/15
Left Out: 293.905+/-70.772 χ²/NDF:22.1/22
Right Out: 238.515+/-95.062 χ²/NDF: 14.9/18
Left In: 369.224+/-72.430 χ²/NDF:25.5/20
Left: 330.692+/-50.619 χ²/NDF: 48.1/43
Right: 152.957+/-68.645 χ²/NDF: 28.6/34
In: 261.646+/-58.503 χ²/NDF:43.9/36
Out: 274.153+/-56.768 χ²/NDF:37.2/41
All: 268.088+/-40.740 χ²/NDF: 81.1/78

# eigen_dit_asym_sam4_rms vs Slug, Sign Corrected




Right In: 261.089+/-0.070 $\chi^2$/NDF: 462665.3/15

Left Out: 294.816+/-0.050 $\chi^2$/NDF:1270958.6/22

Right Out: 252.787+/-0.067 $\chi^2$/NDF: 537293.8/18

Left In: 293.262+/-0.051 $\chi^2$/NDF:896958.0/20

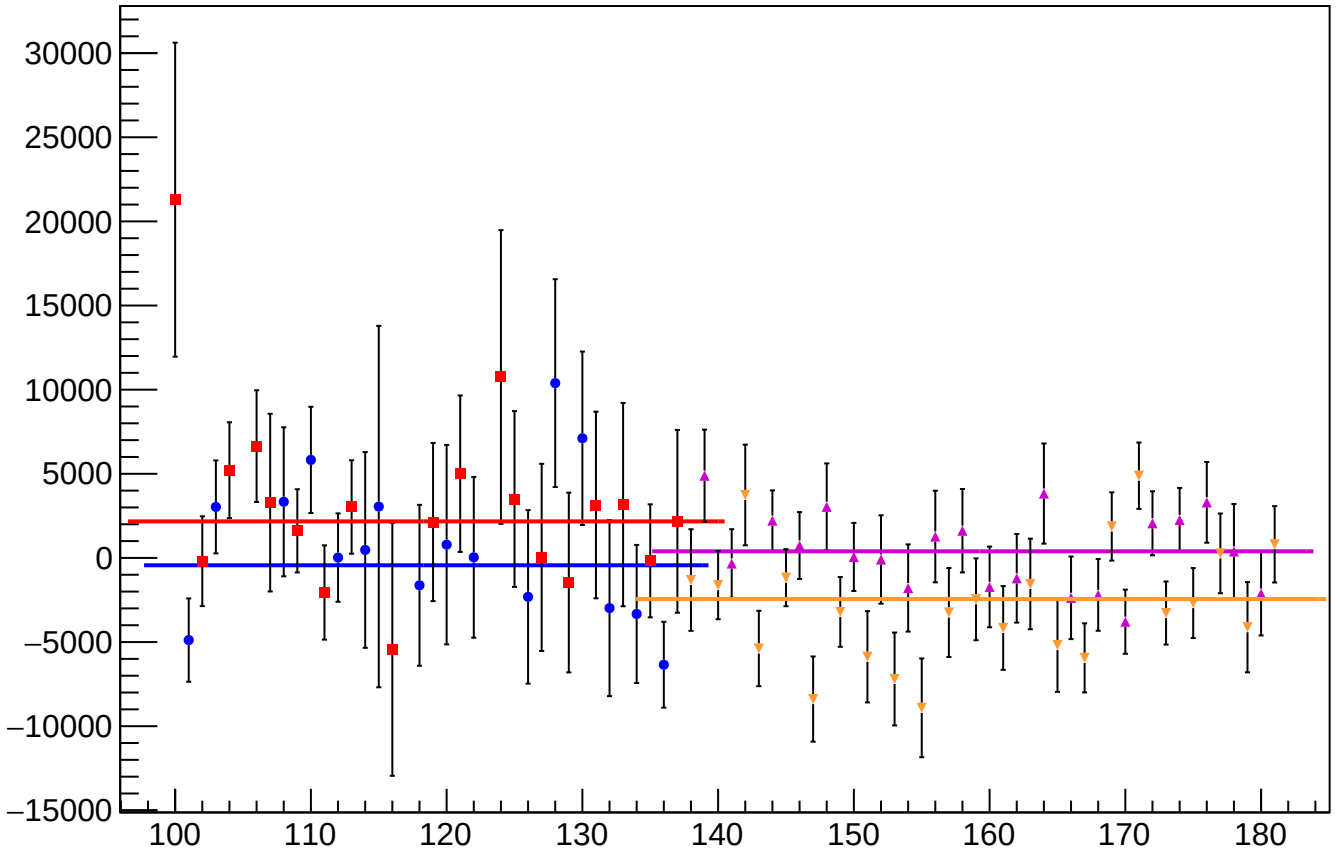
Left: 294.057+/-0.036 $\chi^2$/NDF: 2168388.0/43

Right: 256.760+/-0.049 $\chi^2$/NDF: 1007258.7/34

In: 282.079+/-0.041 $\chi^2$/NDF:1496788.4/36

Out: 279.829+/-0.040 $\chi^2$/NDF:2059788.5/41

All: 280.920+/-0.029 $\chi^2$/NDF: 3558100.6/78




Right In: -436.731+/-955.133 $\chi^2$/NDF: 21.2/15

Left Out: -2443.831+/-482.851 $\chi^2$/NDF:48.8/22

Right Out: 2172.089+/-901.101 $\chi^2$/NDF: 14.0/18

Left In: 392.936+/-498.067 $\chi^2$/NDF:20.3/20

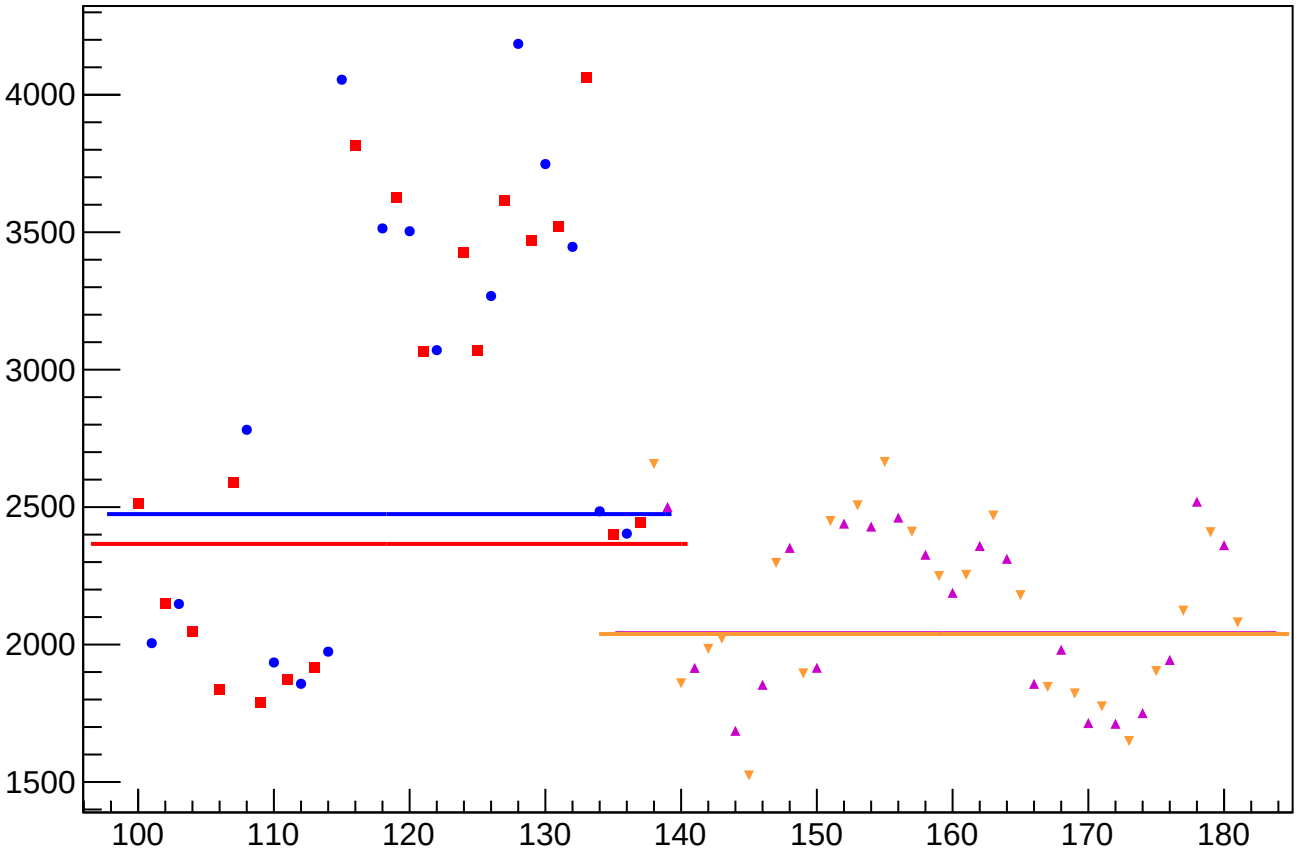
Left: -1069.440+/-346.682 $\chi^2$/NDF: 85.8/43

Right: 943.553+/-655.444 $\chi^2$/NDF: 39.1/34

In: 215.562+/-441.628 $\chi^2$/NDF:42.1/36

Out: -1414.122+/-425.600 $\chi^2$/NDF:83.2/41

All: -629.389+/-306.455 $\chi^2$/NDF: 132.3/78




Right In: 2474.620+/-0.675 $\chi^2$/NDF: 916254.1/15

Left Out: 2038.472+/-0.341 $\chi^2$/NDF:847614.4/22

Right Out: 2366.219+/-0.637 $\chi^2$/NDF: 1077177.7/18

Left In: 2041.351+/-0.352 $\chi^2$/NDF:687603.3/20

Left: 2039.867+/-0.245 $\chi^2$/NDF: 1535252.2/43

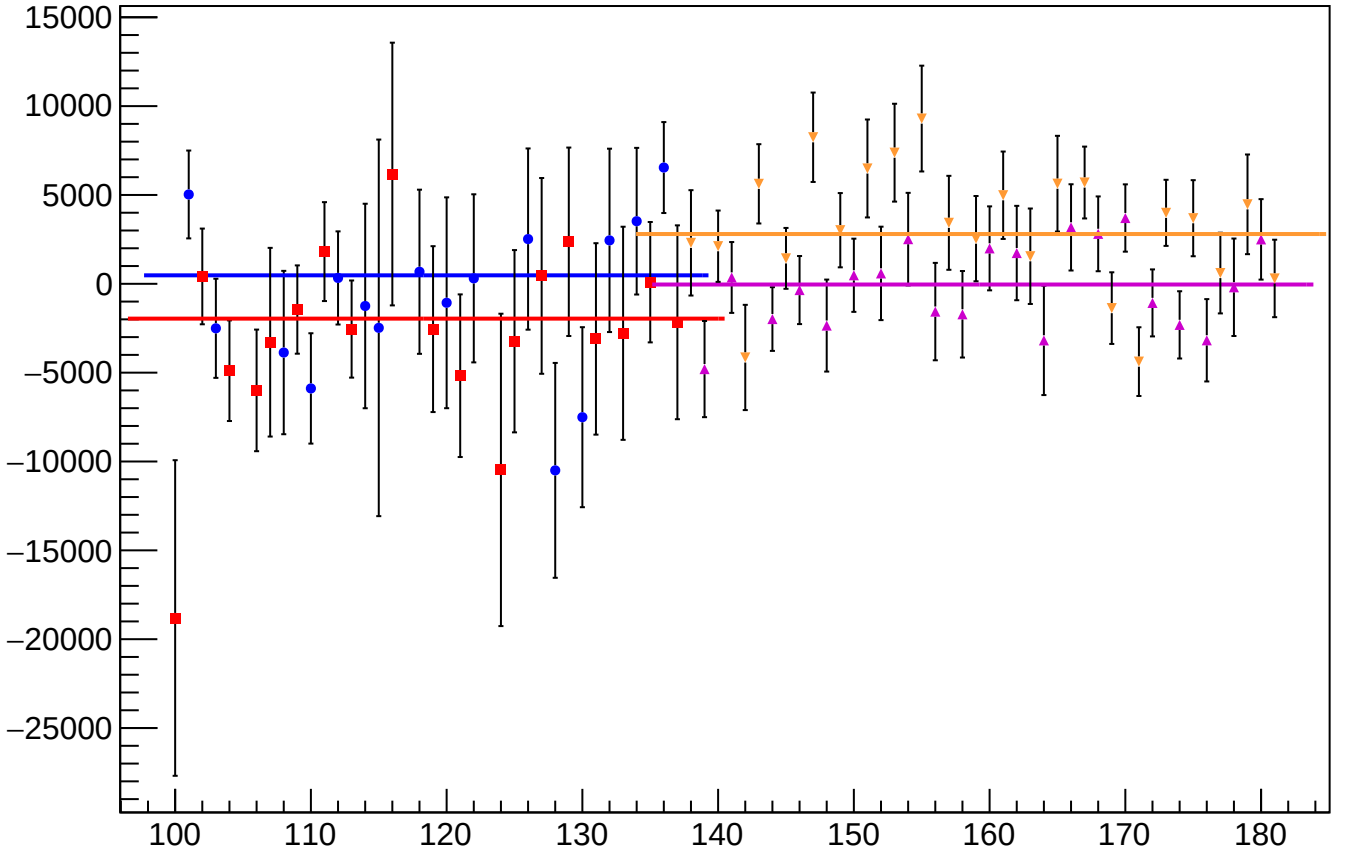
Right: 2417.267+/-0.463 $\chi^2$/NDF: 2007061.7/34

In: 2133.980+/-0.312 $\chi^2$/NDF:1927418.5/36

Out: 2111.585+/-0.301 $\chi^2$/NDF:2130351.9/41

All: 2122.369+/-0.217 $\chi^2$/NDF: 4060436.7/78

# asym_sam4_mean vs Slug, Sign Corrected




Right In: 477.284+/-952.752 $\chi^2$/NDF: 22.1/15

Left Out: 2801.508+/-480.199 $\chi^2$/NDF:47.4/22

Right Out: -1959.491+/-899.702 $\chi^2$/NDF: 12.8/18

Left In: -39.539+/-492.298 $\chi^2$/NDF:21.6/20

Left: 1416.325+/-343.749 $\chi^2$/NDF: 86.0/43

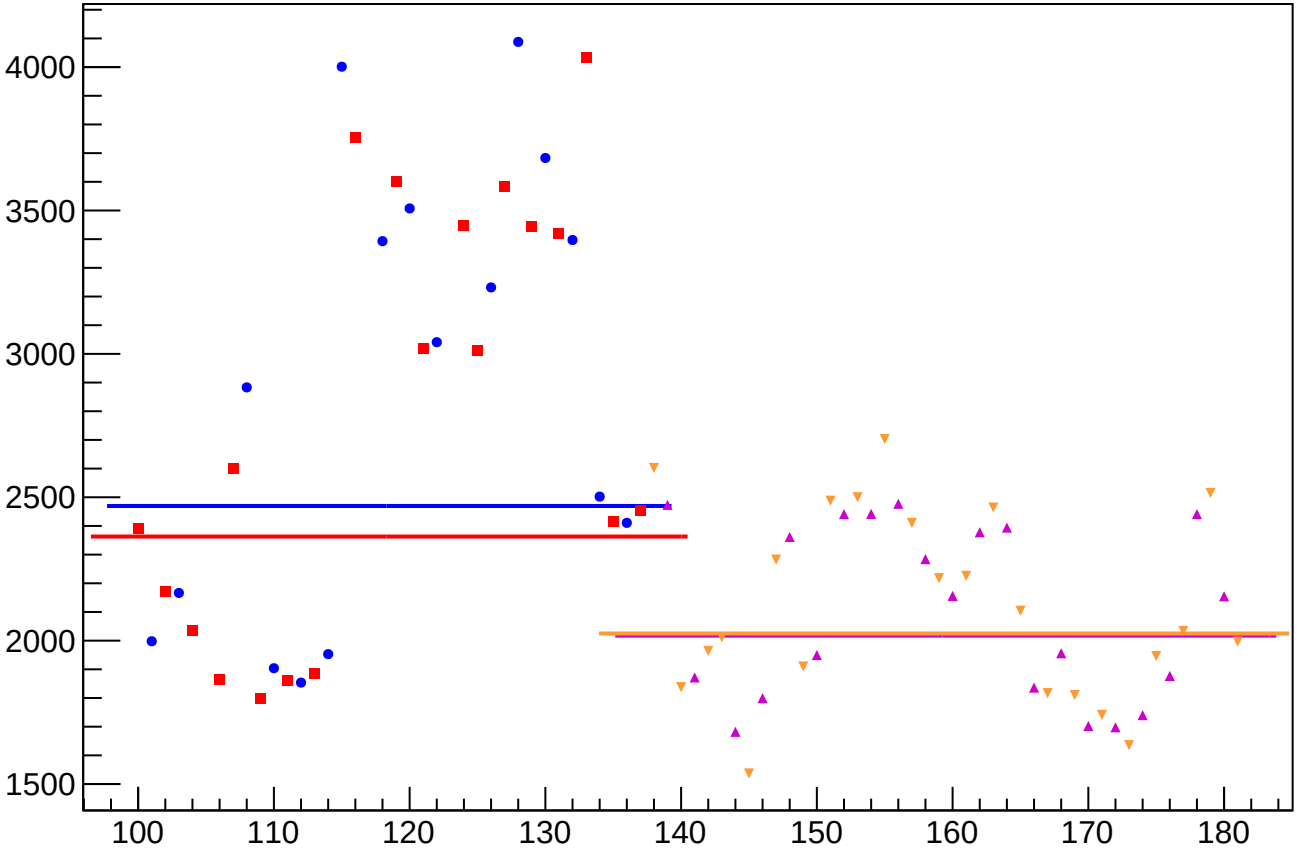
Right: -810.830+/-654.136 $\chi^2$/NDF: 38.4/34

In: 69.370+/-437.362 $\chi^2$/NDF:43.9/36

Out: 1745.946+/-423.635 $\chi^2$/NDF:82.0/41

All: 934.382+/-304.292 $\chi^2$/NDF: 133.5/78

# asym_sam4_rms vs Slug, Sign Corrected




Right In: 2469.639+/-0.674 $\chi^2$/NDF: 886179.0/15

Left Out: 2024.945+/-0.340 $\chi^2$/NDF:866007.7/22

Right Out: 2363.052+/-0.636 $\chi^2$/NDF: 1043344.3/18

Left In: 2017.567+/-0.348 $\chi^2$/NDF:690843.5/20

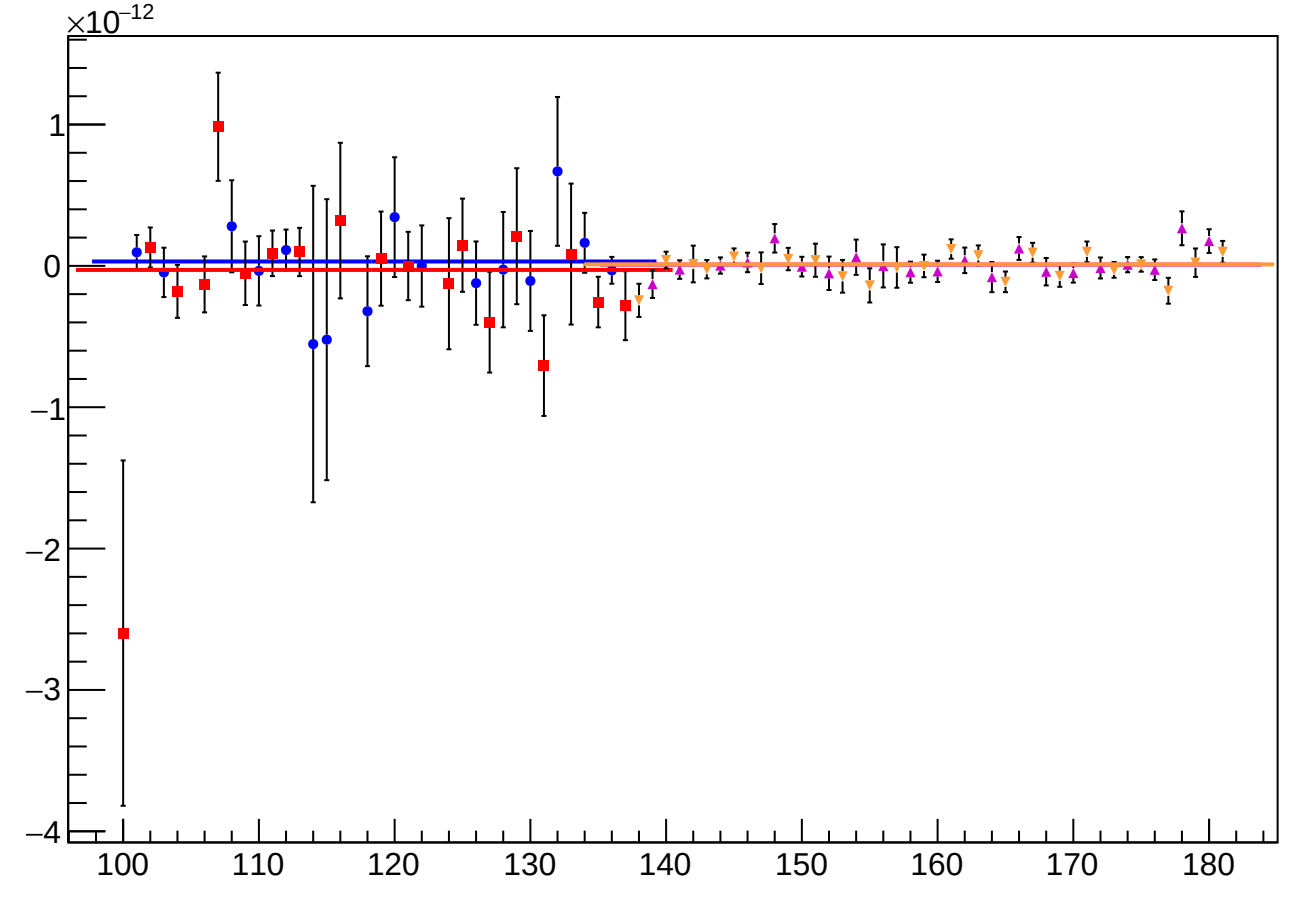
Left: 2021.348+/-0.243 $\chi^2$/NDF: 1557081.3/43

Right: 2413.296+/-0.463 $\chi^2$/NDF: 1942755.0/34

In: 2112.831+/-0.309 $\chi^2$/NDF:1932418.0/36

Out: 2099.907+/-0.300 $\chi^2$/NDF:2129180.2/41

All: 2106.163+/-0.215 $\chi^2$/NDF: 4062499.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.9/20

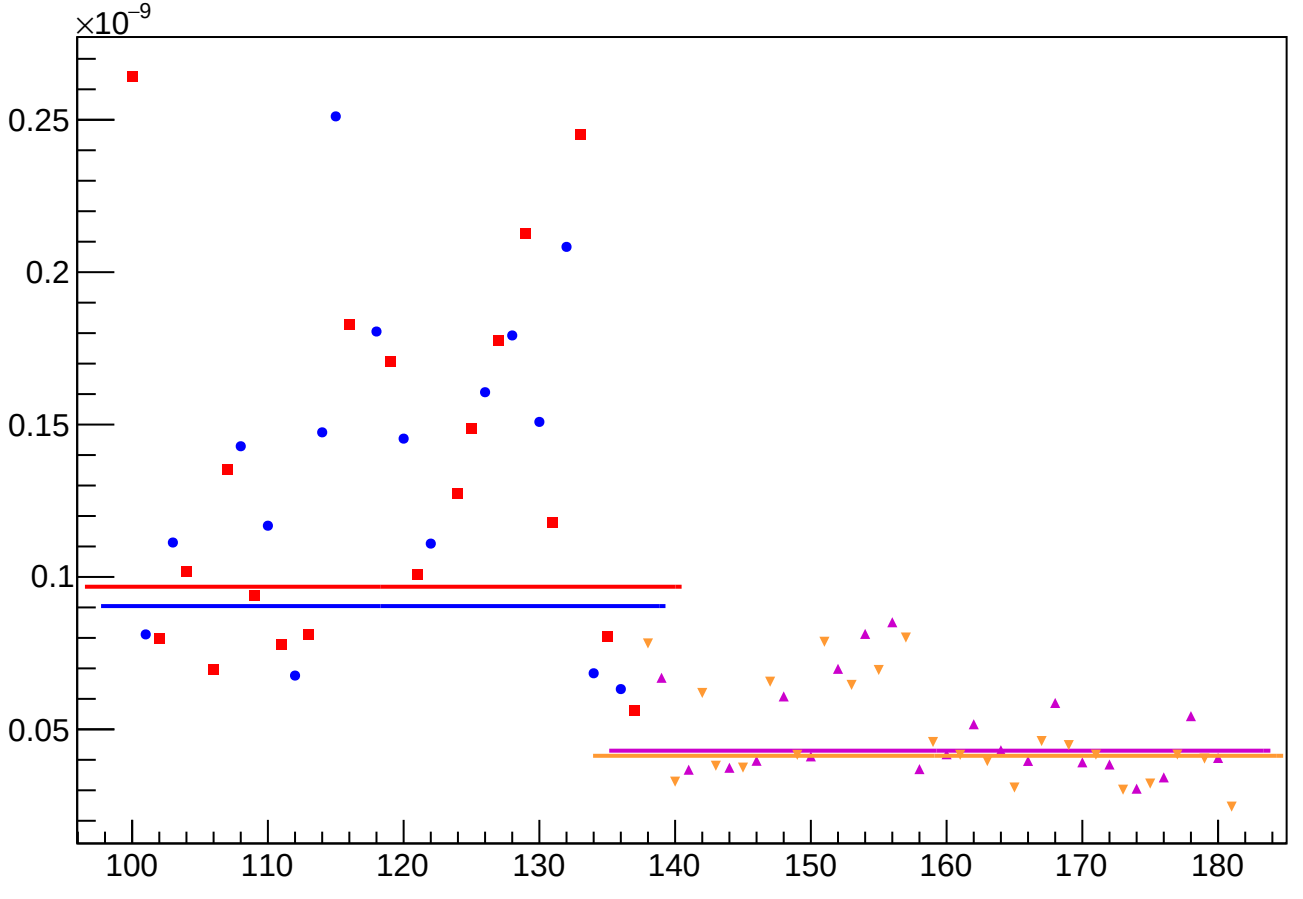
Left: 0.000+/-0.000 $\chi^2$/NDF: 44.7/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:48.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 74.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 926723.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1234956.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 851500.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:926012.5/20

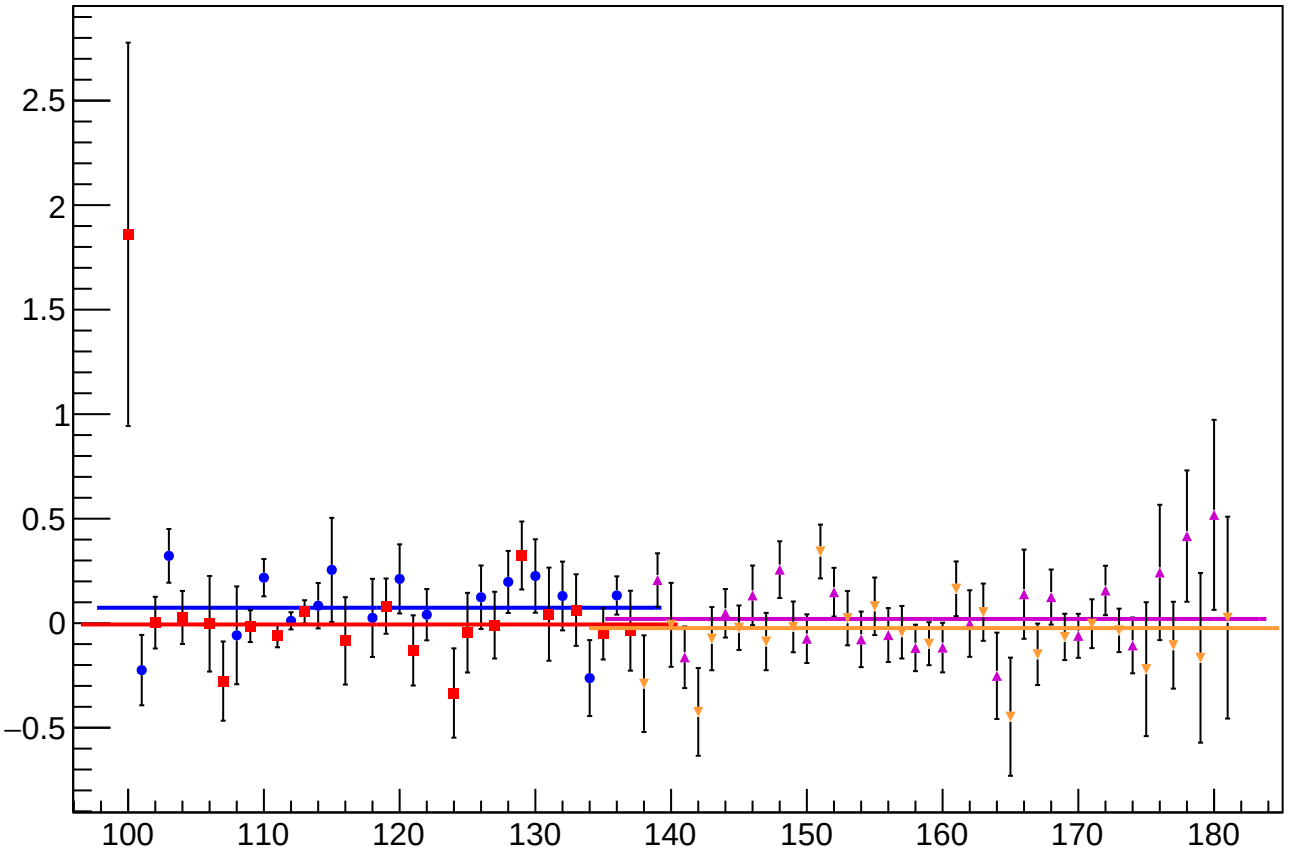
Left: 0.000+/-0.000 $\chi^2$/NDF: 2171026.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 1791911.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:3320834.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:3903433.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 7242020.0/78




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.024+/-0.030 $\chi^2$/NDF:20.9/22

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.020+/-0.030 $\chi^2$/NDF:21.8/20

Left: -0.002+/-0.021 $\chi^2$/NDF: 43.7/43

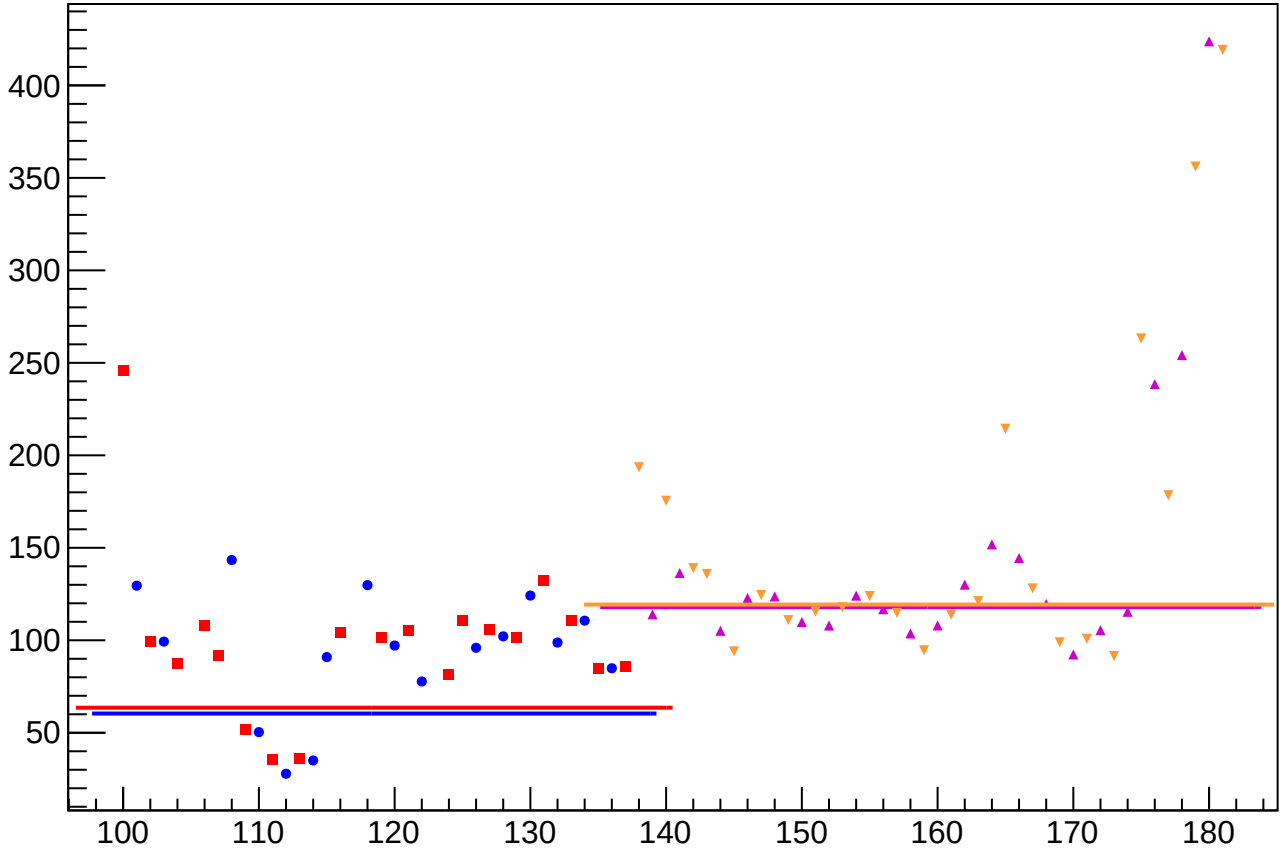
Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.050+/-0.020 $\chi^2$/NDF:42.5/36

Out: -0.014+/-0.020 $\chi^2$/NDF:37.5/41

All: 0.018+/-0.014 $\chi^2$/NDF: 85.0/78

# asym_sam4_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 60.401+/-0.019 $\chi^2$/NDF: 3538126.0/15

Left Out: 119.314+/-0.021 $\chi^2$/NDF:3167875.0/22

Right Out: 63.553+/-0.019 $\chi^2$/NDF: 2654516.9/18

Left In: 117.888+/-0.021 $\chi^2$/NDF:1936084.7/20

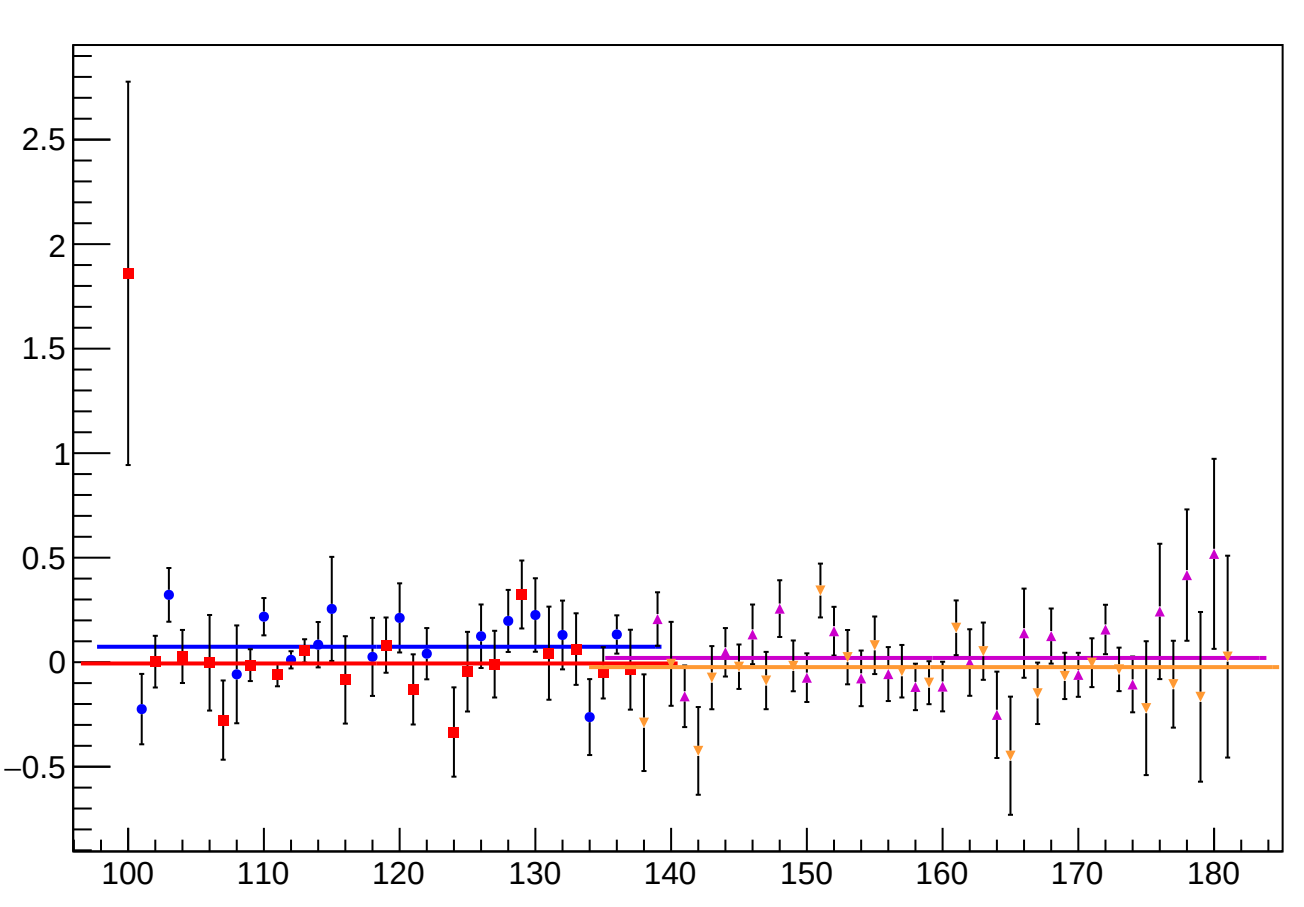
Left: 118.609+/-0.015 $\chi^2$/NDF: 5106193.2/43

Right: 61.987+/-0.013 $\chi^2$/NDF: 6206346.3/34

In: 85.811+/-0.014 $\chi^2$/NDF:9478128.7/36

Out: 88.329+/-0.014 $\chi^2$/NDF:9660608.8/41

All: 87.081+/-0.010 $\chi^2$/NDF: 19154447.1/78




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.024+/-0.030 $\chi^2$/NDF:20.9/22

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.020+/-0.030 $\chi^2$/NDF:21.8/20

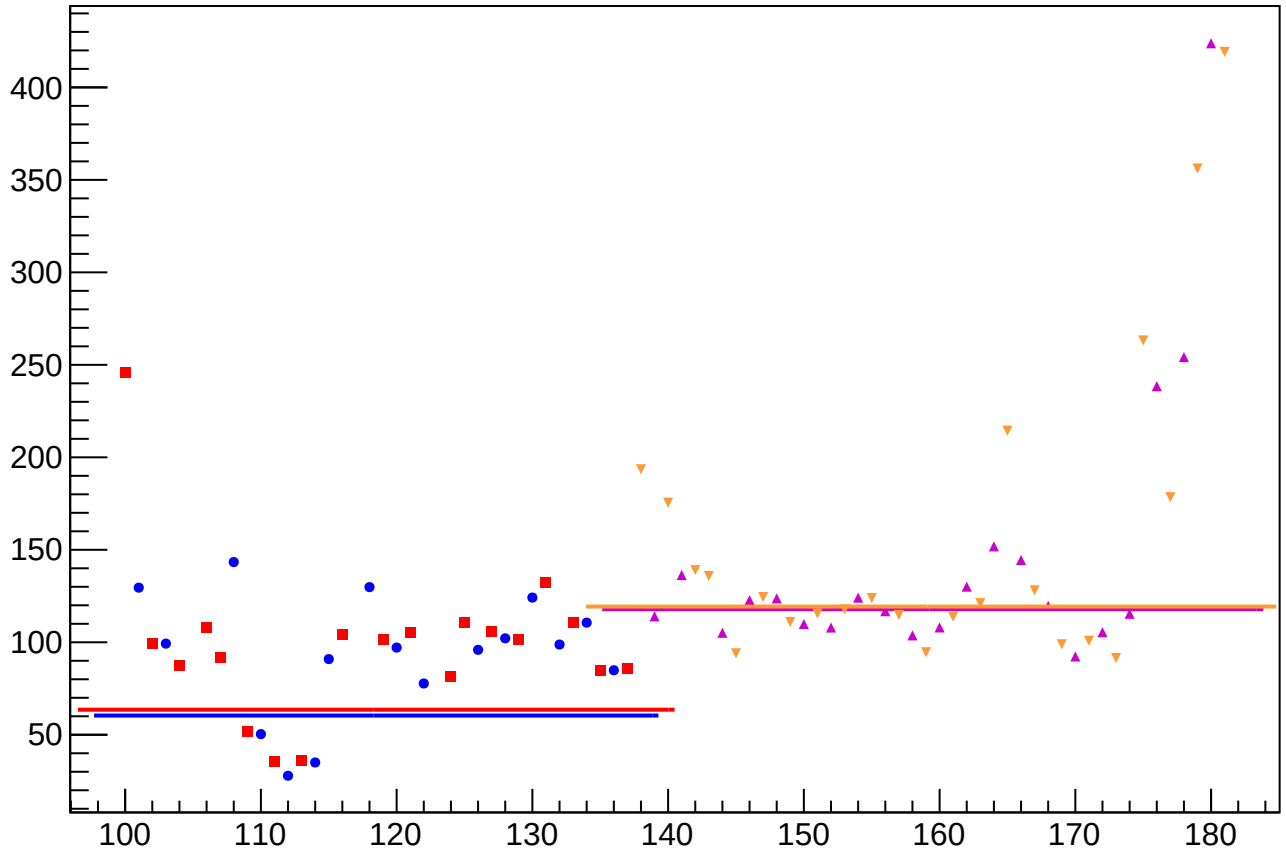
Left: -0.002+/-0.021 $\chi^2$/NDF: 43.7/43

Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.050+/-0.020 $\chi^2$/NDF:42.5/36

Out: -0.014+/-0.020 $\chi^2$/NDF:37.5/41

All: 0.018+/-0.014 $\chi^2$/NDF: 85.0/78




Right In: 60.401+/-0.019 $\chi^2$/NDF: 3538126.0/15

Left Out: 119.314+/-0.021 $\chi^2$/NDF:3167875.0/22

Right Out: 63.553+/-0.019 $\chi^2$/NDF: 2654516.9/18

Left In: 117.888+/-0.021 $\chi^2$/NDF:1936084.7/20

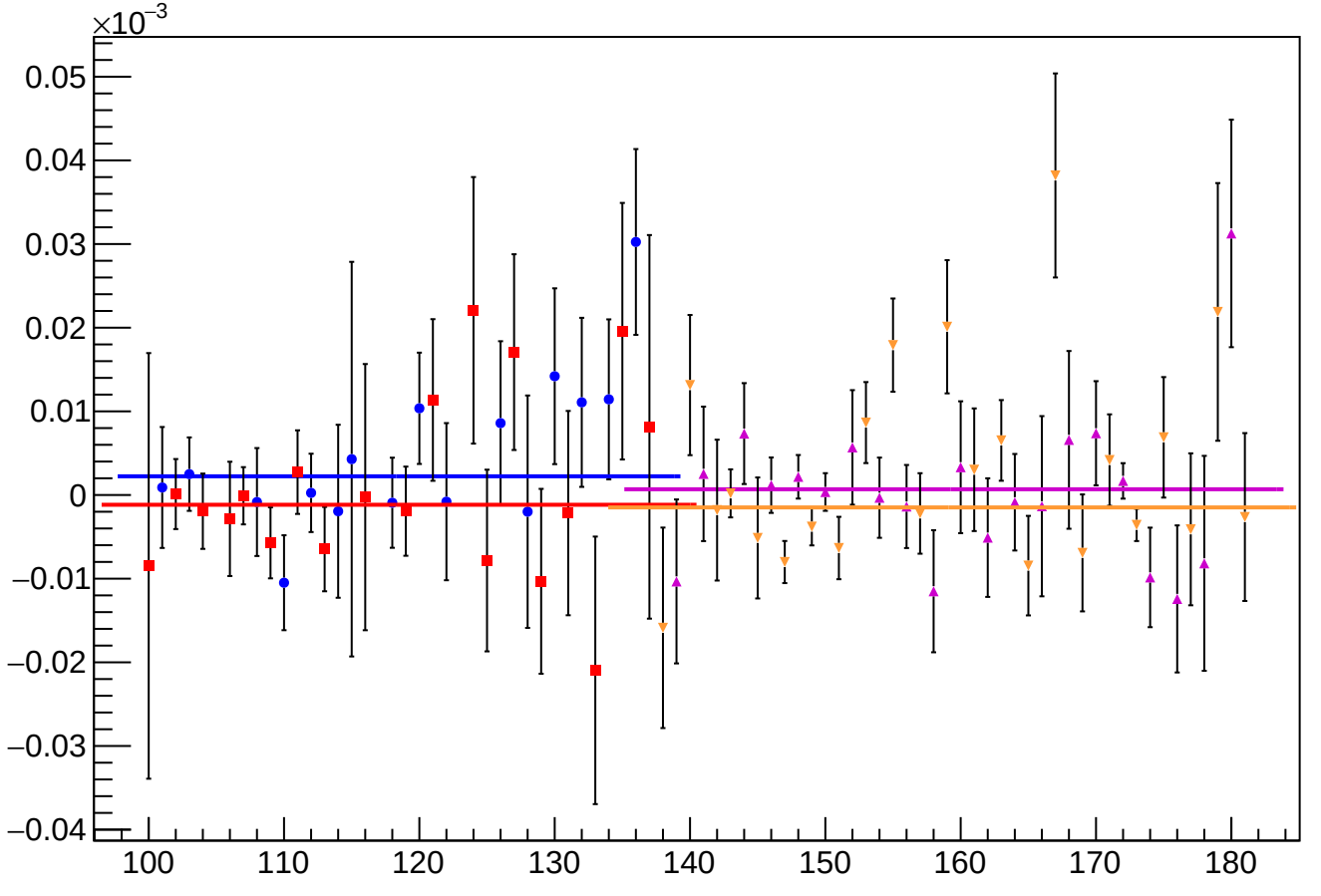
Left: 118.609+/-0.015 $\chi^2$/NDF: 5106193.2/43

Right: 61.987+/-0.013 $\chi^2$/NDF: 6206346.3/34

In: 85.811+/-0.014 $\chi^2$/NDF:9478128.7/36

Out: 88.329+/-0.014 $\chi^2$/NDF:9660608.8/41

All: 87.081+/-0.010 $\chi^2$/NDF: 19154447.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:60.1/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.9/20

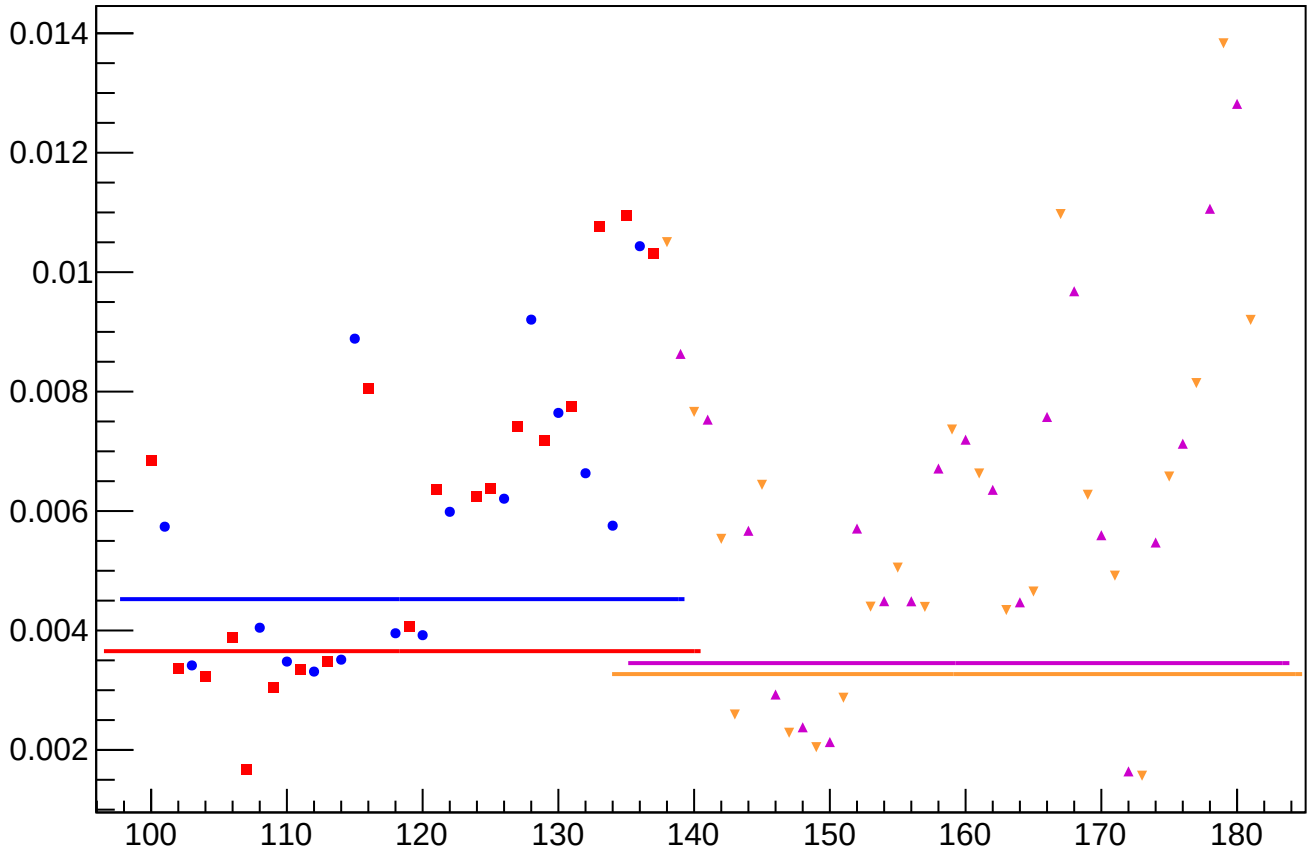
Left: -0.000+/-0.000 $\chi^2$/NDF: 82.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:37.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:74.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 116.6/78




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1721333.3/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:9960870.8/22

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 2933246.9/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:8976127.7/20

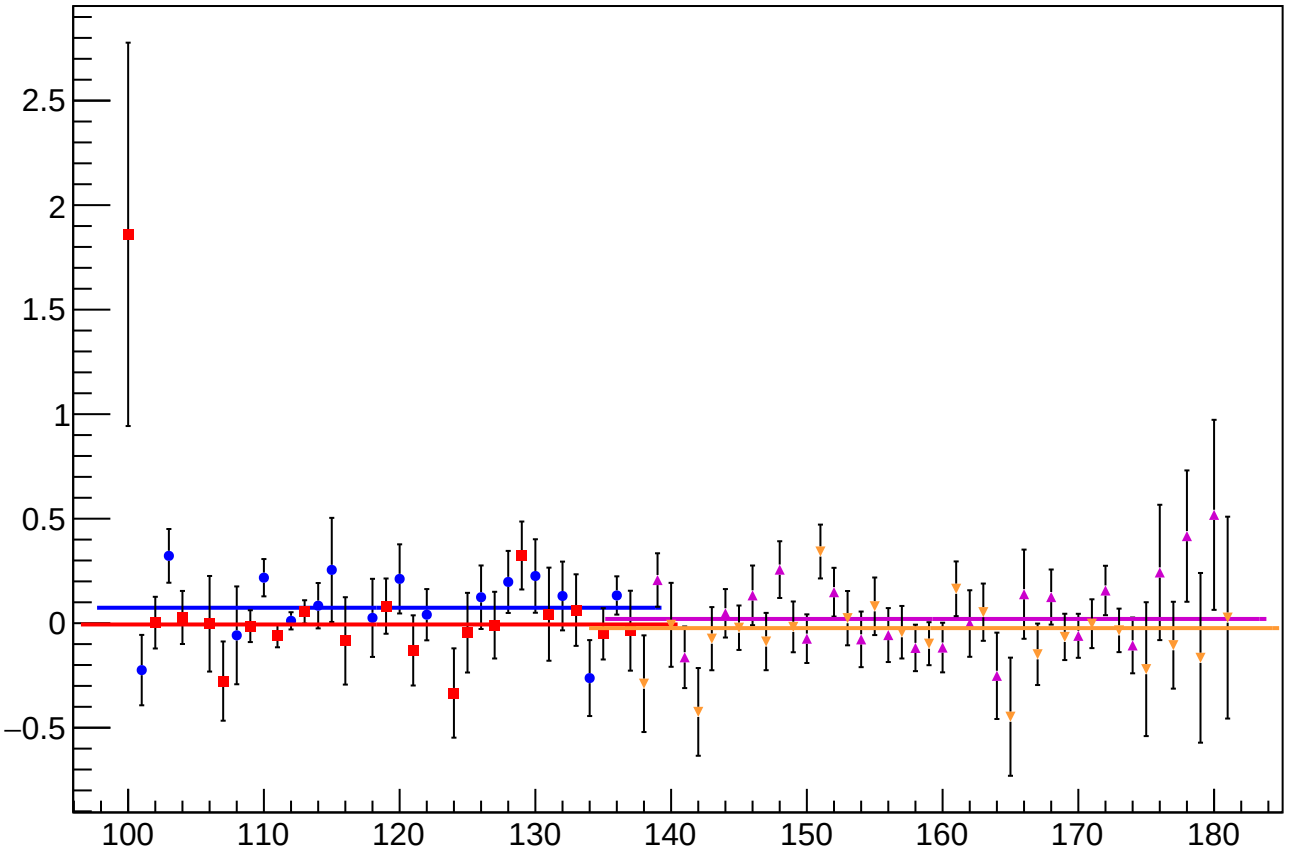
Left: 0.003+/-0.000 $\chi^2$/NDF: 18973828.5/43

Right: 0.004+/-0.000 $\chi^2$/NDF: 4928784.4/34

In: 0.004+/-0.000 $\chi^2$/NDF:11233209.7/36

Out: 0.003+/-0.000 $\chi^2$/NDF:12989822.3/41

All: 0.004+/-0.000 $\chi^2$/NDF: 24382243.7/78




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.024+/-0.030 $\chi^2$/NDF:20.9/22

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.020+/-0.030 $\chi^2$/NDF:21.8/20

Left: -0.002+/-0.021 $\chi^2$/NDF: 43.7/43

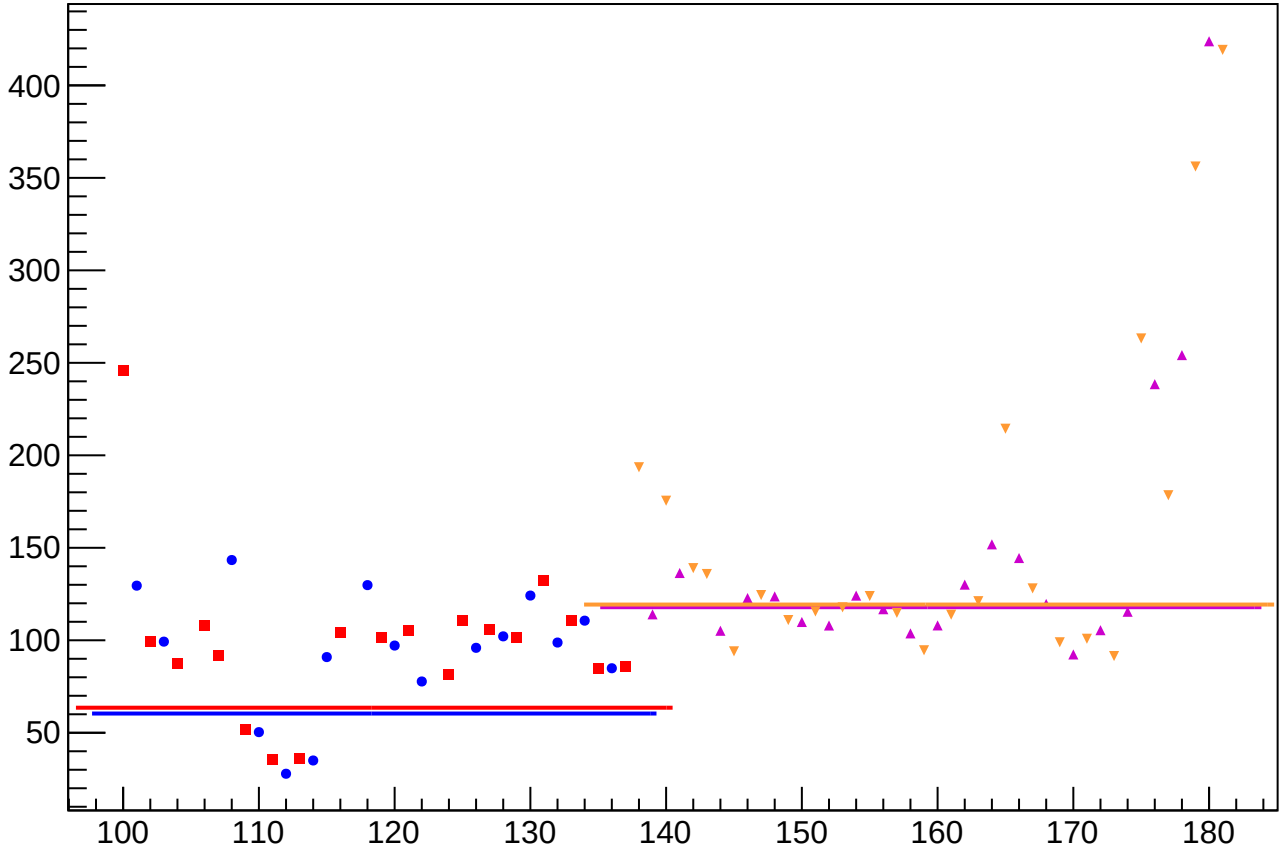
Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.050+/-0.020 $\chi^2$/NDF:42.5/36

Out: -0.014+/-0.020 $\chi^2$/NDF:37.5/41

All: 0.018+/-0.014 $\chi^2$/NDF: 85.0/78

asym_sam4_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 60.399+/-0.019 $\chi^2$/NDF: 3538382.9/15

Left Out: 119.315+/-0.021 $\chi^2$/NDF:3167825.0/22

Right Out: 63.551+/-0.019 $\chi^2$/NDF: 2654786.8/18

Left In: 117.889+/-0.021 $\chi^2$/NDF:1936026.5/20

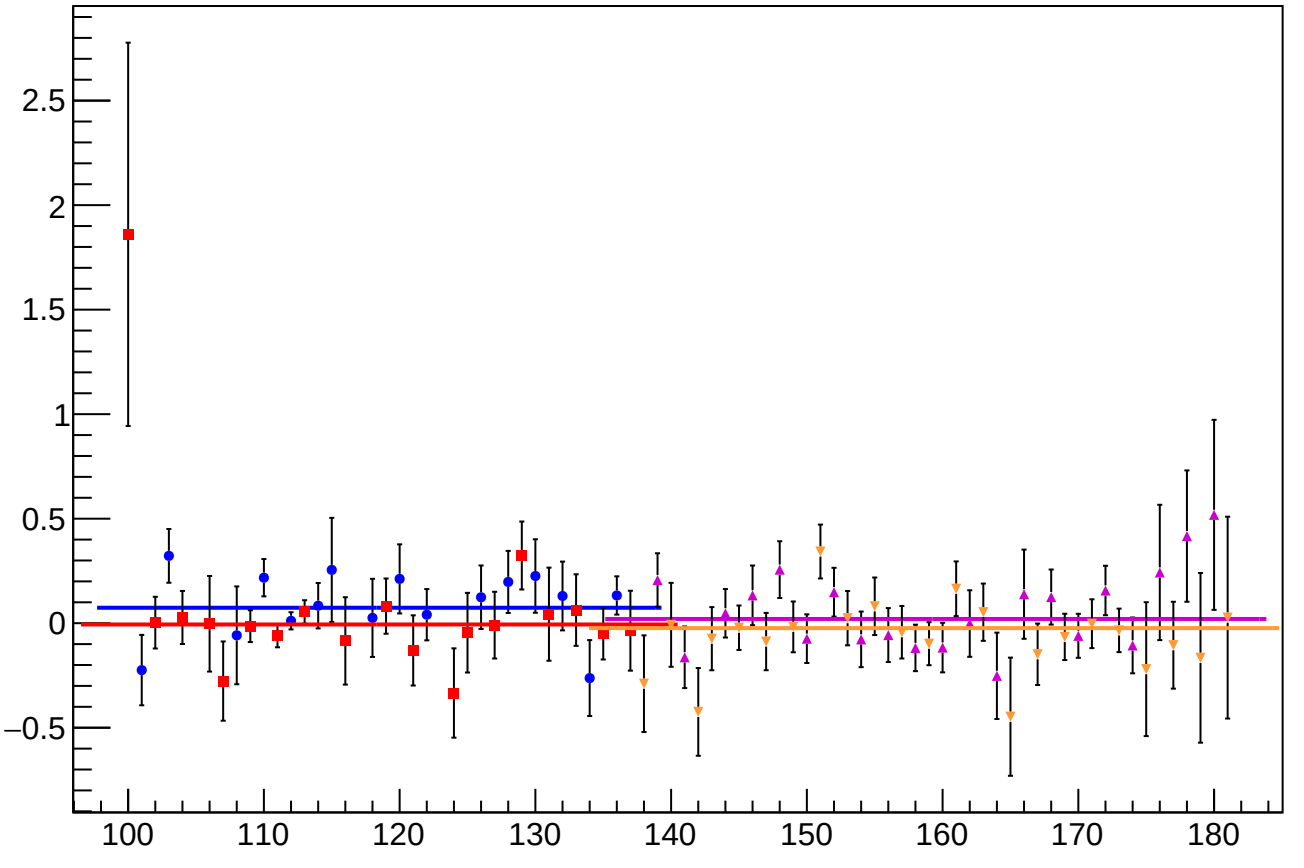
Left: 118.610+/-0.015 $\chi^2$/NDF: 5106085.2/43

Right: 61.985+/-0.013 $\chi^2$/NDF: 6206876.3/34

In: 85.809+/-0.014 $\chi^2$/NDF:9478793.8/36

Out: 88.327+/-0.014 $\chi^2$/NDF:9661238.4/41

All: 87.079+/-0.010 $\chi^2$/NDF: 19155746.1/78




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.024+/-0.030 $\chi^2$/NDF:20.9/22

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.020+/-0.030 $\chi^2$/NDF:21.8/20

Left: -0.002+/-0.021 $\chi^2$/NDF: 43.7/43

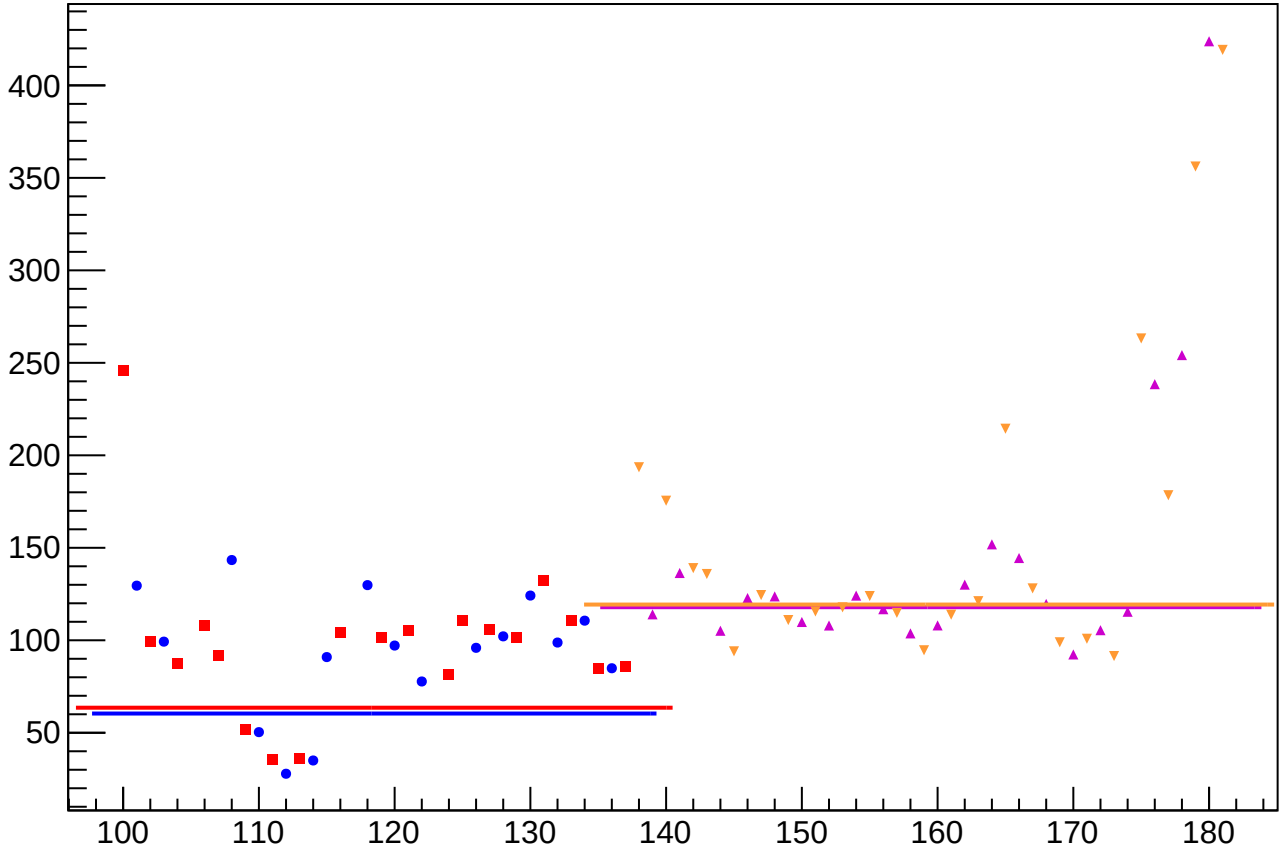
Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.050+/-0.020 $\chi^2$/NDF:42.5/36

Out: -0.014+/-0.020 $\chi^2$/NDF:37.5/41

All: 0.018+/-0.014 $\chi^2$/NDF: 85.0/78

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 60.399+/-0.019 $\chi^2$/NDF: 3538382.9/15

Left Out: 119.315+/-0.021 $\chi^2$/NDF:3167825.0/22

Right Out: 63.551+/-0.019 $\chi^2$/NDF: 2654786.8/18

Left In: 117.889+/-0.021 $\chi^2$/NDF:1936026.5/20

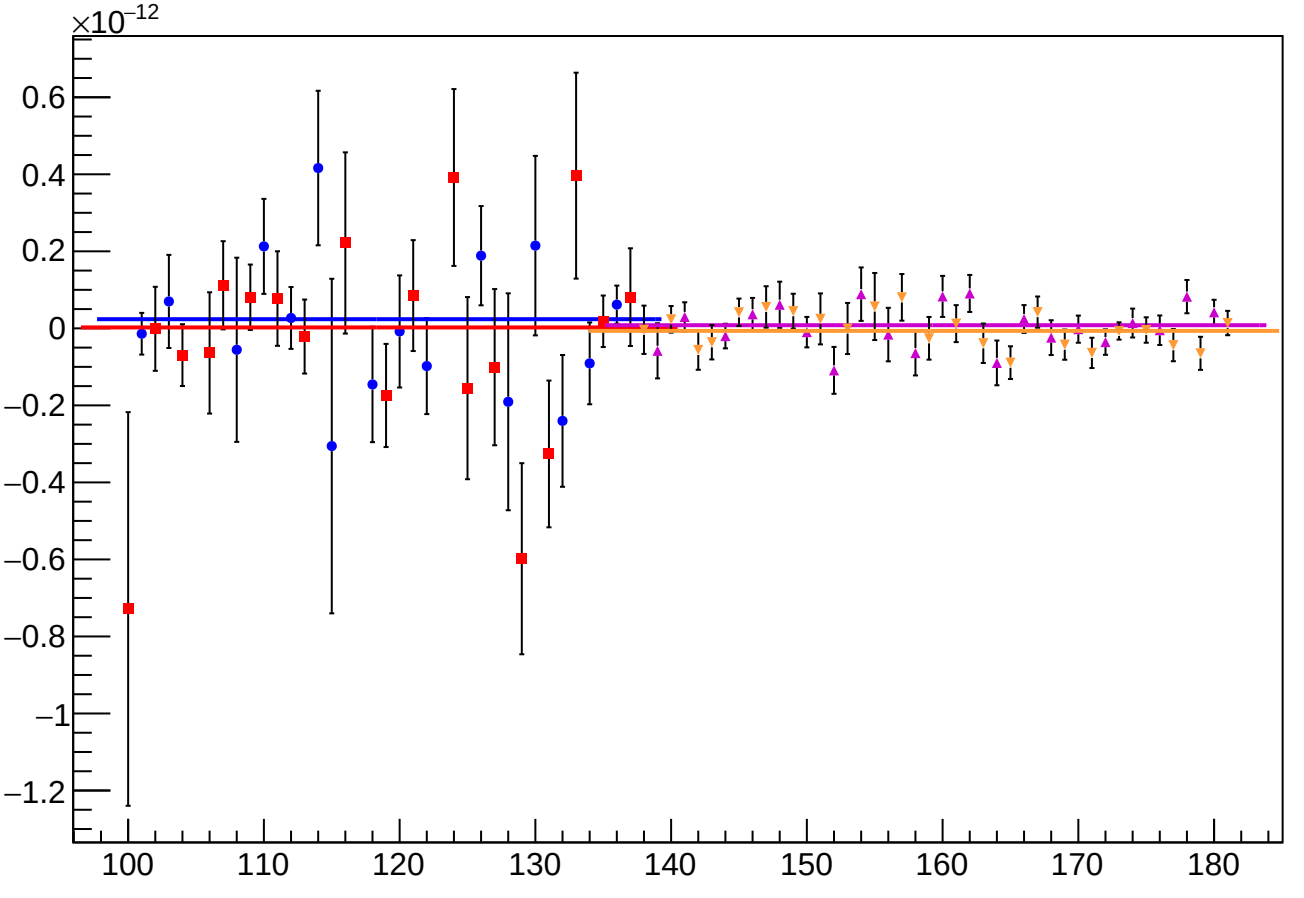
Left: 118.610+/-0.015 $\chi^2$/NDF: 5106085.2/43

Right: 61.985+/-0.013 $\chi^2$/NDF: 6206876.3/34

In: 85.809+/-0.014 $\chi^2$/NDF:9478793.8/36

Out: 88.327+/-0.014 $\chi^2$/NDF:9661238.4/41

All: 87.079+/-0.010 $\chi^2$/NDF: 19155746.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:24.6/20

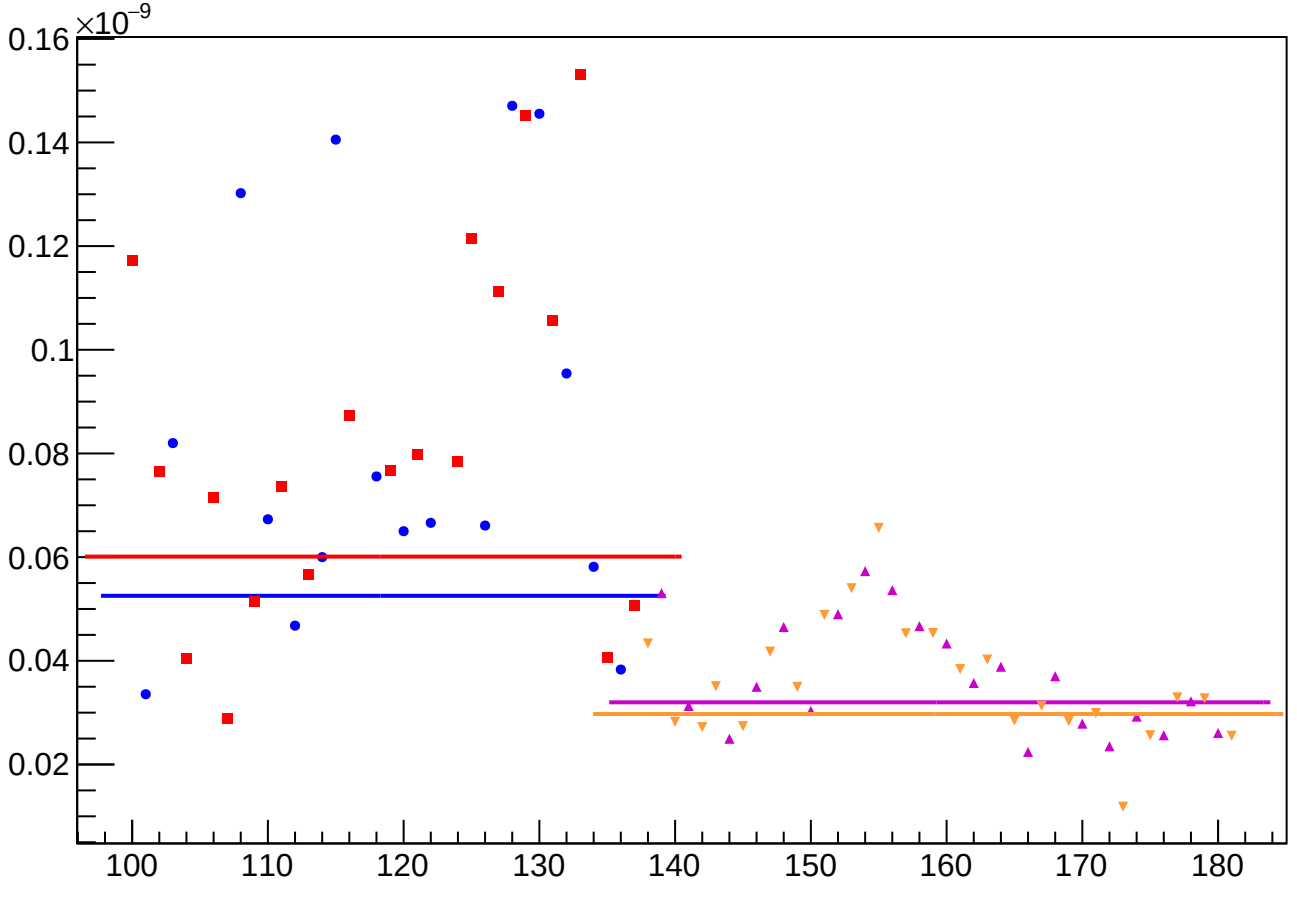
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:41.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:44.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 87.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1649207.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2846344.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1539049.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1732126.8/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4640104.2/43

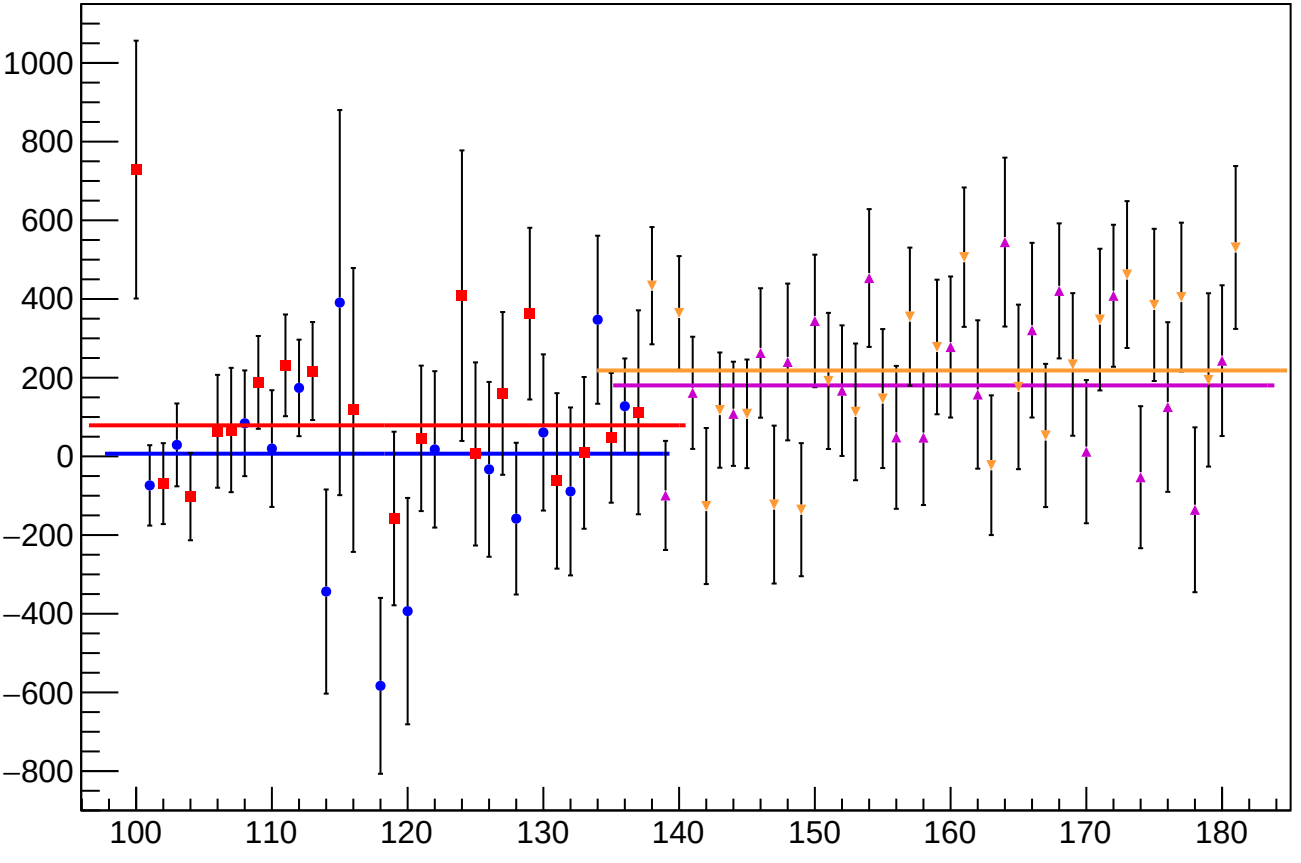
Right: 0.000+/-0.000 $\chi^2$/NDF: 3263531.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:4470746.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6412477.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10940297.8/78

# reg_asym_sam5_mean vs Slug, Sign Corrected




Right In: 6.811+/-40.353 $\chi^2$/NDF: 18.8/15

Left Out: 218.331+/-36.571 $\chi^2$/NDF:27.4/22

Right Out: 78.883+/-37.906 $\chi^2$/NDF: 16.7/18

Left In: 180.375+/-38.149 $\chi^2$/NDF:21.4/20

Left: 200.154+/-26.400 $\chi^2$/NDF: 49.2/43

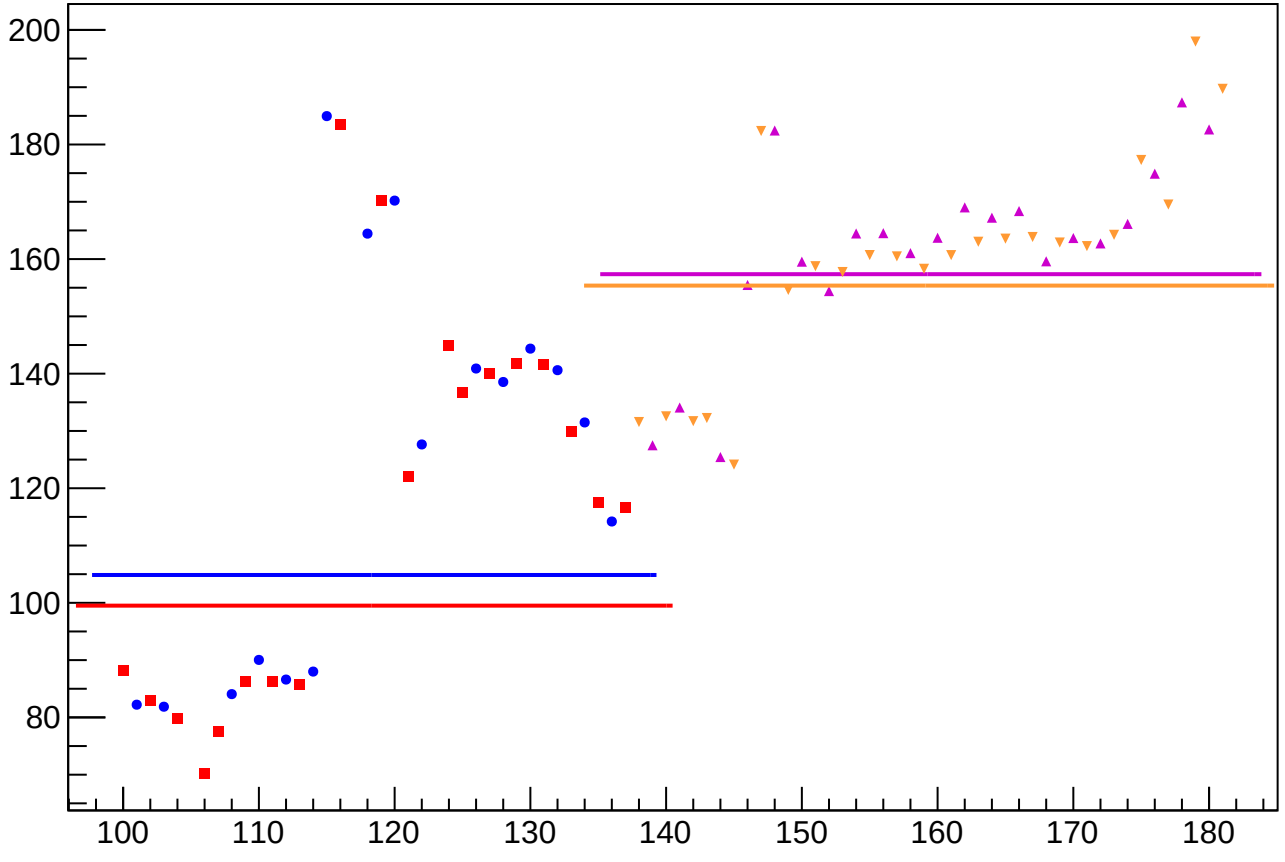
Right: 45.098+/-27.628 $\chi^2$/NDF: 37.2/34

In: 98.462+/-27.722 $\chi^2$/NDF:49.9/36

Out: 151.105+/-26.319 $\chi^2$/NDF:51.1/41

All: 126.149+/-19.087 $\chi^2$/NDF: 102.9/78

# reg_asym_sam5_rms vs Slug, Sign Corrected




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931228.4/15

Left Out: 155.373+/-0.026 $\chi^2$/NDF:513685.5/22

Right Out: 99.508+/-0.027 $\chi^2$/NDF: 1039037.0/18

Left In: 157.365+/-0.027 $\chi^2$/NDF:420100.9/20

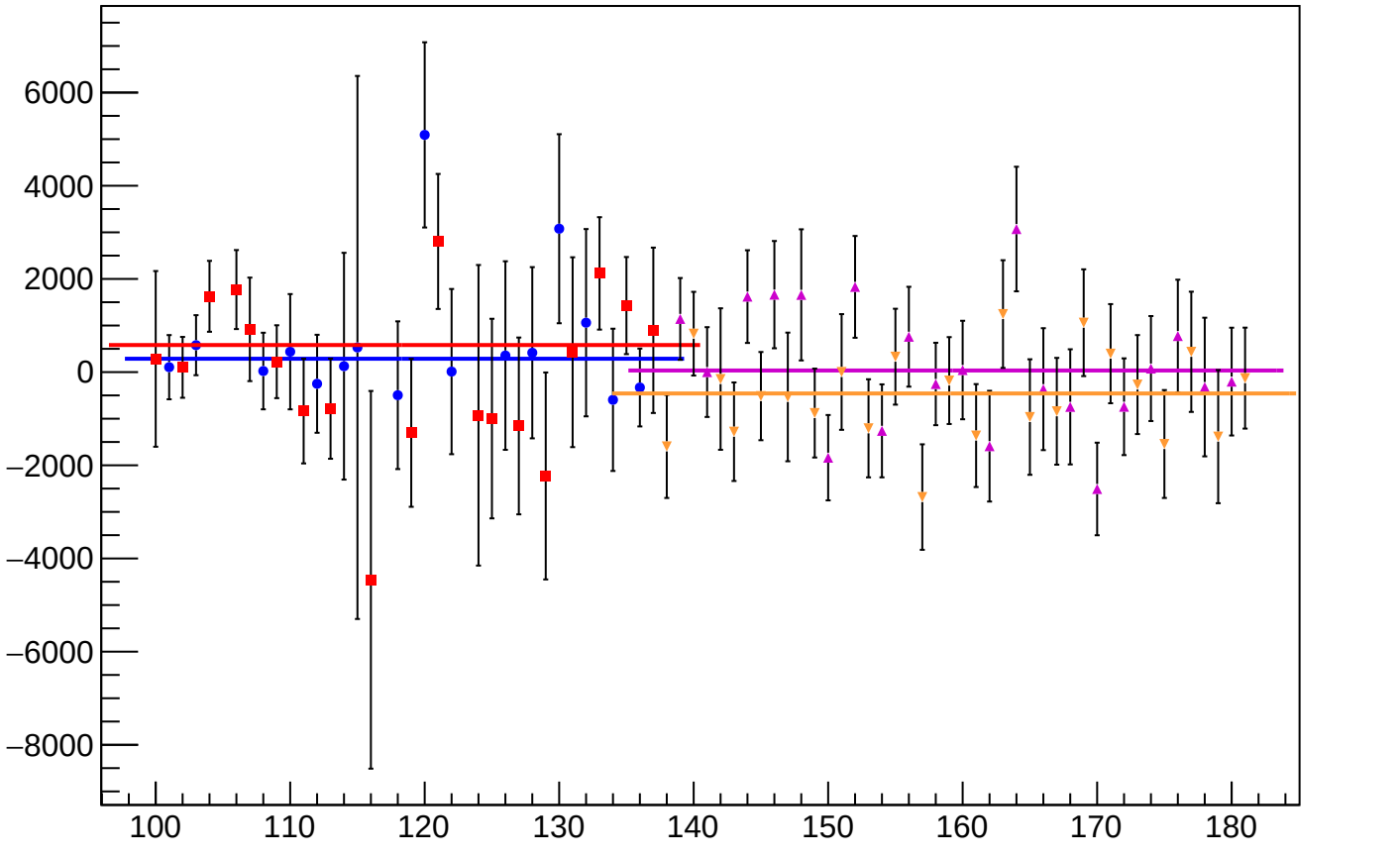
Left: 156.327+/-0.019 $\chi^2$/NDF: 936628.0/43

Right: 102.017+/-0.020 $\chi^2$/NDF: 1988955.2/34

In: 132.585+/-0.020 $\chi^2$/NDF:3139309.5/36

Out: 128.441+/-0.019 $\chi^2$/NDF:3802588.9/41

All: 130.406+/-0.013 $\chi^2$/NDF: 6965408.2/78




Right In: 286.915+/-293.474 $\chi^2$/NDF: 9.7/15

Left Out: -458.334+/-230.956 $\chi^2$/NDF:16.5/22

Right Out: 581.217+/-269.775 $\chi^2$/NDF: 18.8/18

Left In: 34.736+/-236.757 $\chi^2$/NDF:31.7/20

Left: -217.914+/-165.323 $\chi^2$/NDF: 50.5/43

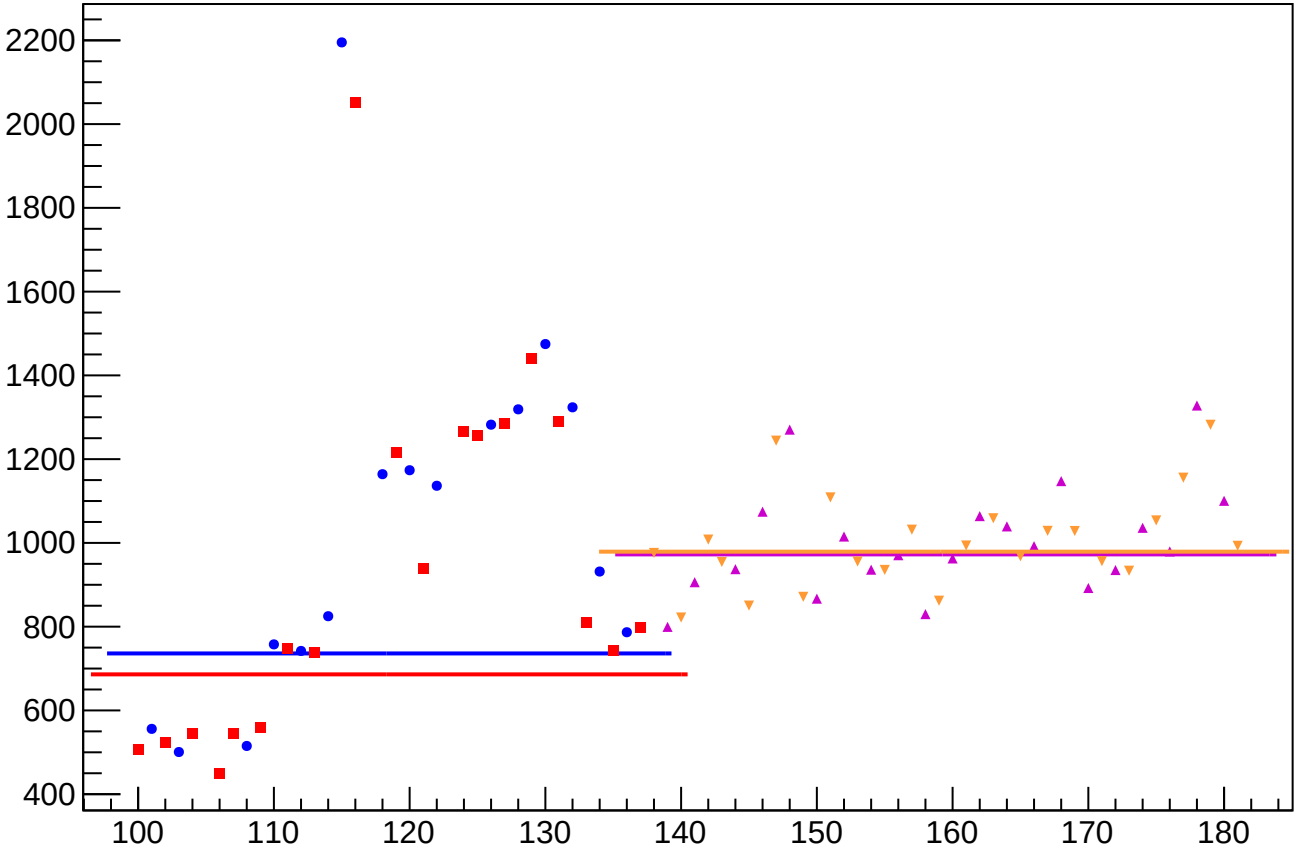
Right: 446.427+/-198.610 $\chi^2$/NDF: 29.0/34

In: 134.156+/-184.269 $\chi^2$/NDF:41.8/36

Out: -18.668+/-175.445 $\chi^2$/NDF:43.9/41

All: 53.997+/-127.063 $\chi^2$/NDF: 86.1/78

# asym_sam5_reg_correction_rms vs Slug, Sign Corrected




Right In: 736.084+/-0.208 $\chi^2$/NDF: 1844496.2/15

Left Out: 979.069+/-0.163 $\chi^2$/NDF:419683.0/22

Right Out: 686.108+/-0.191 $\chi^2$/NDF: 1819176.0/18

Left In: 972.554+/-0.167 $\chi^2$/NDF:497585.5/20

Left: 975.892+/-0.117 $\chi^2$/NDF: 918044.6/43

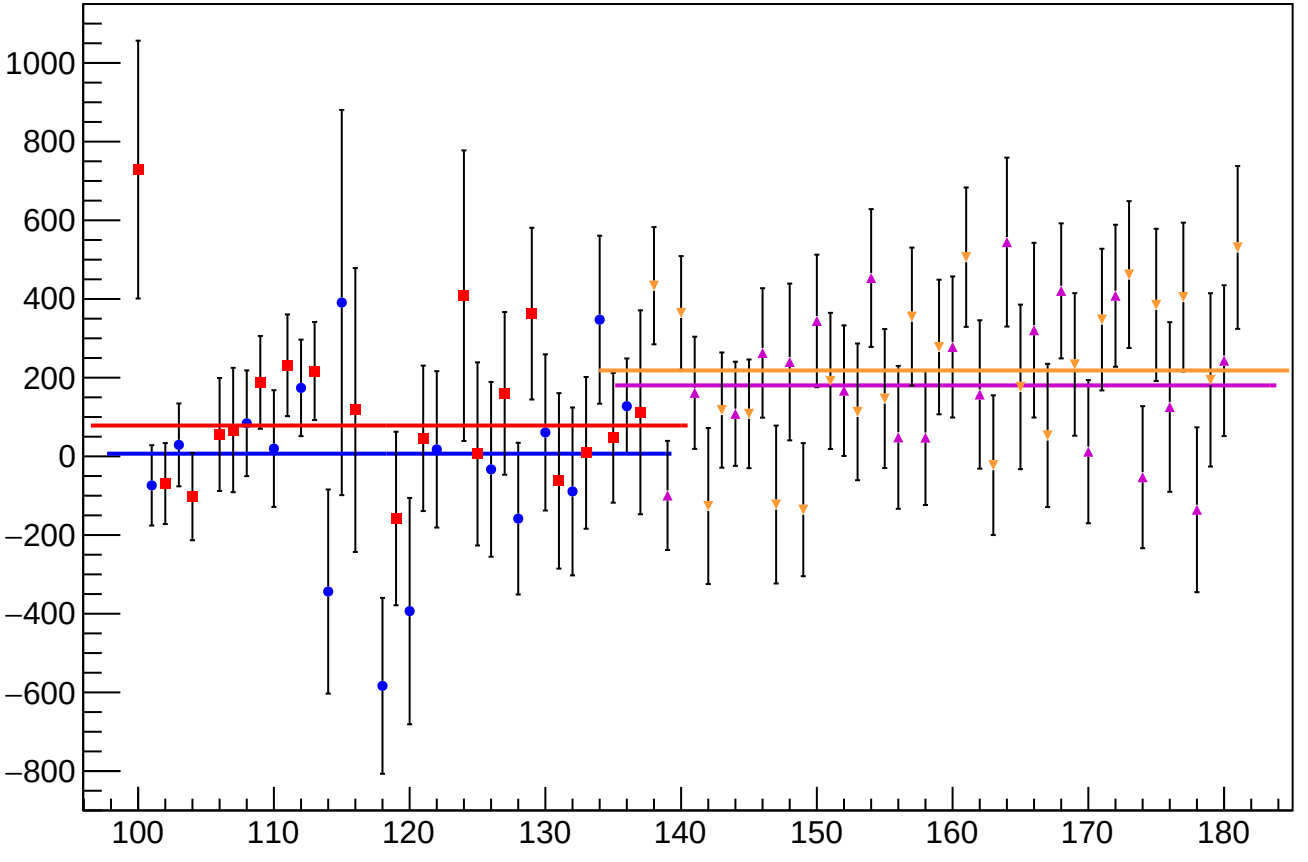
Right: 708.997+/-0.140 $\chi^2$/NDF: 3695106.9/34

In: 879.327+/-0.130 $\chi^2$/NDF:3128658.2/36

Out: 855.165+/-0.124 $\chi^2$/NDF:3599894.5/41

All: 866.654+/-0.090 $\chi^2$/NDF: 6746589.2/78

# cor_asym_sam5_mean vs Slug, Sign Corrected




Right In: 6.799+/-40.353 $\chi^2$/NDF: 18.8/15

Left Out: 218.333+/-36.571 $\chi^2$/NDF:27.4/22

Right Out: 78.347+/-37.909 $\chi^2$/NDF: 16.7/18

Left In: 180.378+/-38.149 $\chi^2$/NDF:21.4/20

Left: 200.157+/-26.400 $\chi^2$/NDF: 49.2/43

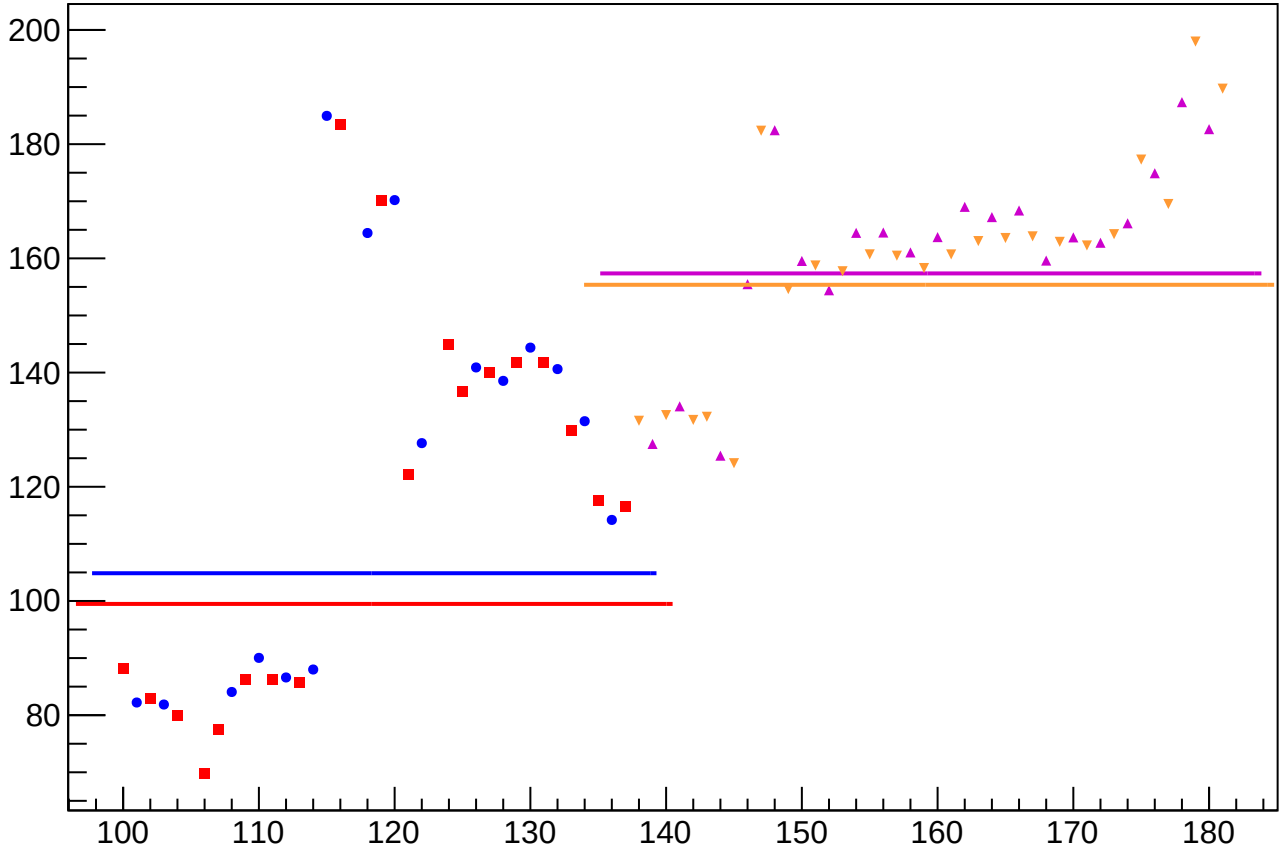
Right: 44.806+/-27.629 $\chi^2$/NDF: 37.1/34

In: 98.458+/-27.722 $\chi^2$/NDF:49.9/36

Out: 150.853+/-26.320 $\chi^2$/NDF:51.1/41

All: 126.014+/-19.087 $\chi^2$/NDF: 102.9/78

# cor_asym_sam5_rms vs Slug, Sign Corrected




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931227.7/15

Left Out: 155.373+/-0.026 $\chi^2$/NDF:513685.5/22

Right Out: 99.484+/-0.027 $\chi^2$/NDF: 1041224.0/18

Left In: 157.365+/-0.027 $\chi^2$/NDF:420100.9/20

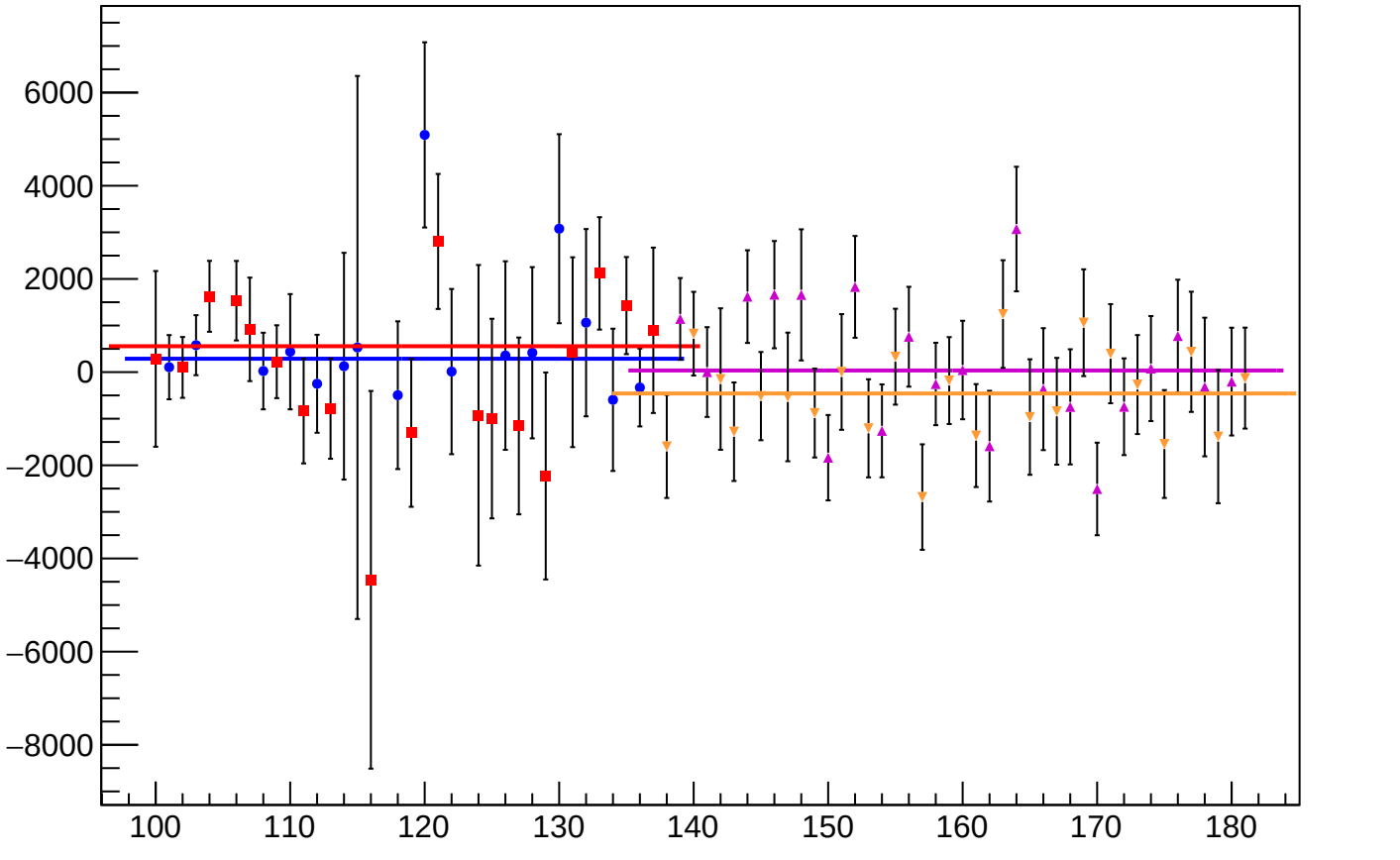
Left: 156.327+/-0.019 $\chi^2$/NDF: 936628.0/43

Right: 102.004+/-0.020 $\chi^2$/NDF: 1991307.5/34

In: 132.585+/-0.020 $\chi^2$/NDF:3139307.6/36

Out: 128.431+/-0.019 $\chi^2$/NDF:3806535.3/41

All: 130.401+/-0.013 $\chi^2$/NDF: 6969460.4/78




Right In: 286.918+/-293.473 $\chi^2$/NDF: 9.7/15

Left Out: -458.327+/-230.956 $\chi^2$/NDF:16.5/22

Right Out: 555.436+/-269.953 $\chi^2$/NDF: 18.0/18

Left In: 34.733+/-236.757 $\chi^2$/NDF:31.7/20

Left: -217.912+/-165.323 $\chi^2$/NDF: 50.5/43

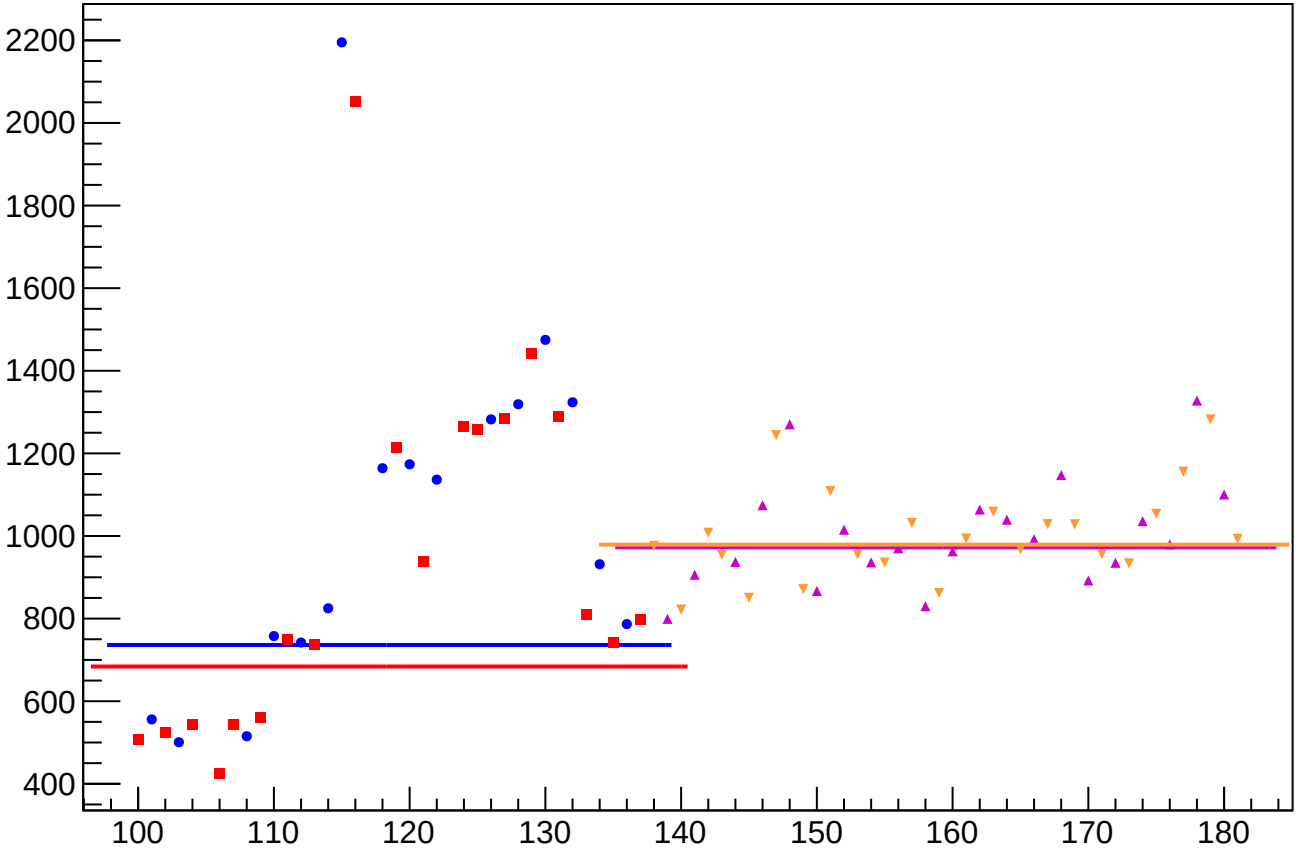
Right: 432.367+/-198.681 $\chi^2$/NDF: 28.2/34

In: 134.155+/-184.269 $\chi^2$/NDF:41.8/36

Out: -29.895+/-175.494 $\chi^2$/NDF:42.7/41

All: 48.131+/-127.082 $\chi^2$/NDF: 85.0/78

# asym_sam5_cor_correction_rms vs Slug, Sign Corrected




Right In: 736.083+/-0.208 $\chi^2$/NDF: 1844498.2/15

Left Out: 979.070+/-0.163 $\chi^2$/NDF:419681.5/22

Right Out: 683.981+/-0.191 $\chi^2$/NDF: 1850402.3/18

Left In: 972.554+/-0.167 $\chi^2$/NDF:497587.8/20

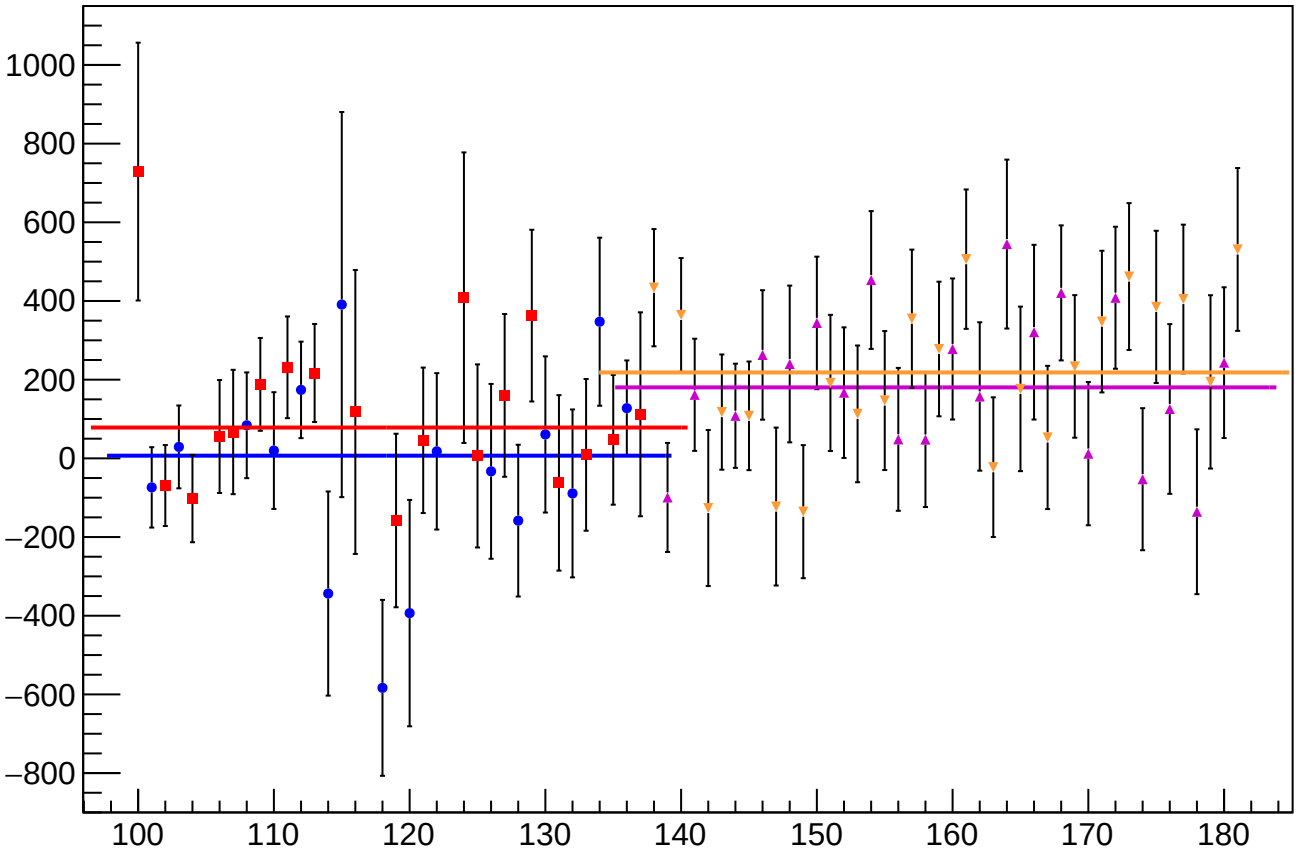
Left: 975.892+/-0.117 $\chi^2$/NDF: 918045.6/43

Right: 707.861+/-0.140 $\chi^2$/NDF: 3729047.2/34

In: 879.327+/-0.130 $\chi^2$/NDF:3128666.2/36

Out: 854.360+/-0.124 $\chi^2$/NDF:3649909.6/41

All: 866.235+/-0.090 $\chi^2$/NDF: 6797827.8/78




Right In: 6.799+/-40.353 $\chi^2$/NDF: 18.8/15

Left Out: 218.333+/-36.571 $\chi^2$/NDF:27.4/22

Right Out: 78.347+/-37.909 $\chi^2$/NDF: 16.7/18

Left In: 180.378+/-38.149 $\chi^2$/NDF:21.4/20

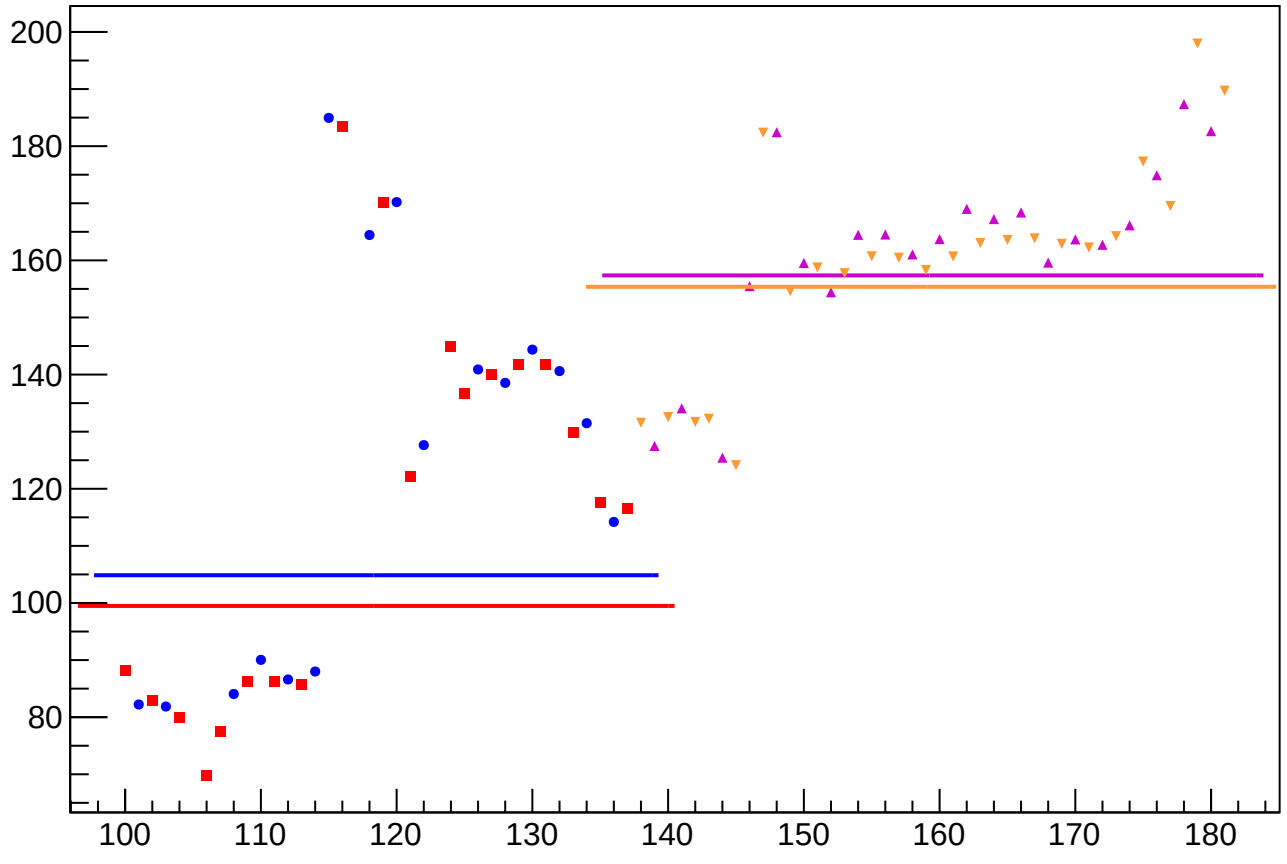
Left: 200.157+/-26.400 $\chi^2$/NDF: 49.2/43

Right: 44.806+/-27.629 $\chi^2$/NDF: 37.1/34

In: 98.458+/-27.722 $\chi^2$/NDF:49.9/36

Out: 150.853+/-26.320 $\chi^2$/NDF:51.1/41

All: 126.014+/-19.087 $\chi^2$/NDF: 102.9/78




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931227.7/15

Left Out: 155.373+/-0.026 $\chi^2$/NDF:513685.5/22

Right Out: 99.484+/-0.027 $\chi^2$/NDF: 1041224.0/18

Left In: 157.365+/-0.027 $\chi^2$/NDF:420100.9/20

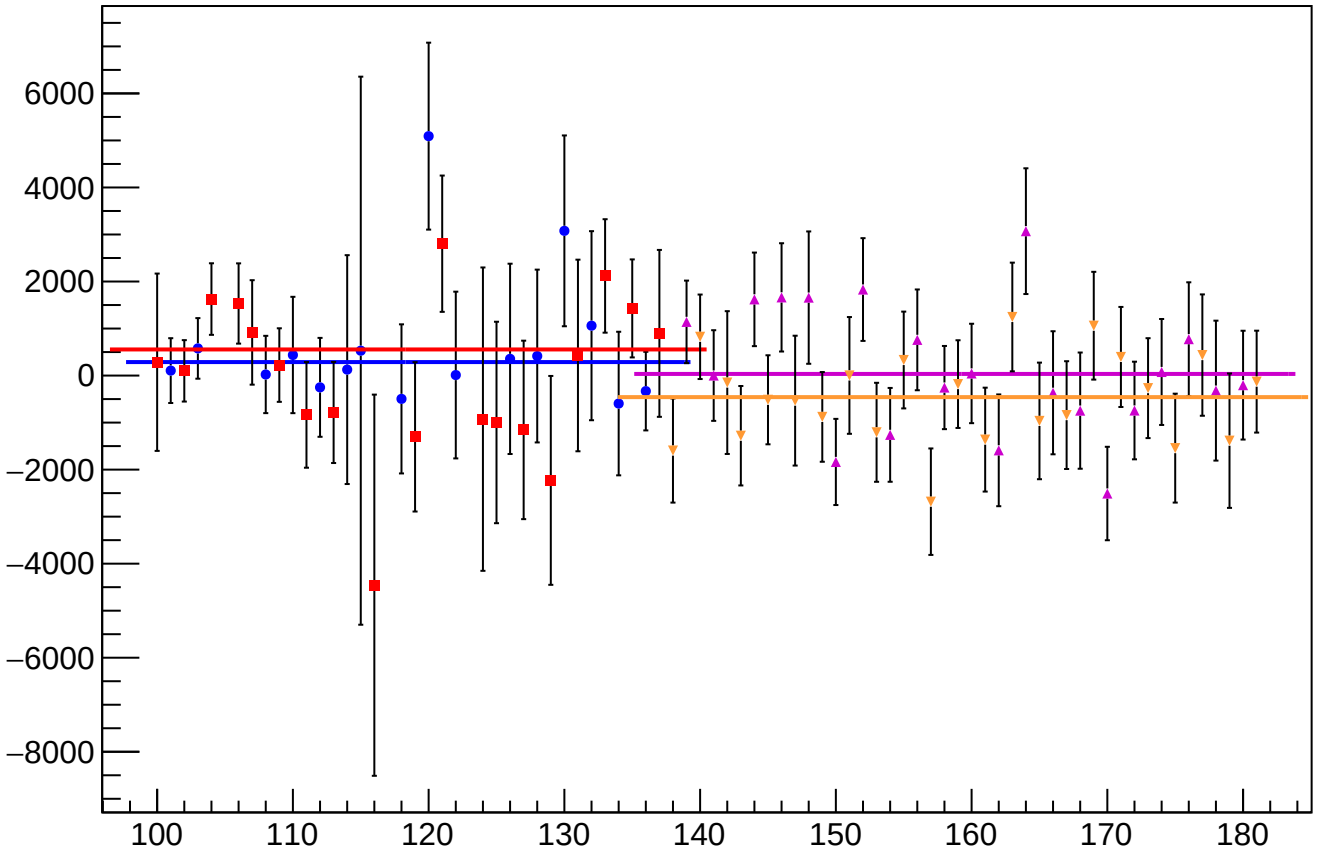
Left: 156.327+/-0.019 $\chi^2$/NDF: 936628.0/43

Right: 102.004+/-0.020 $\chi^2$/NDF: 1991307.5/34

In: 132.585+/-0.020 $\chi^2$/NDF:3139307.6/36

Out: 128.431+/-0.019 $\chi^2$/NDF:3806535.3/41

All: 130.401+/-0.013 $\chi^2$/NDF: 6969460.4/78




Right In: 286.918+/-293.473 $\chi^2$/NDF: 9.7/15

Left Out: -458.327+/-230.956 $\chi^2$/NDF:16.5/22

Right Out: 555.436+/-269.953 $\chi^2$/NDF: 18.0/18

Left In: 34.733+/-236.757 $\chi^2$/NDF:31.7/20

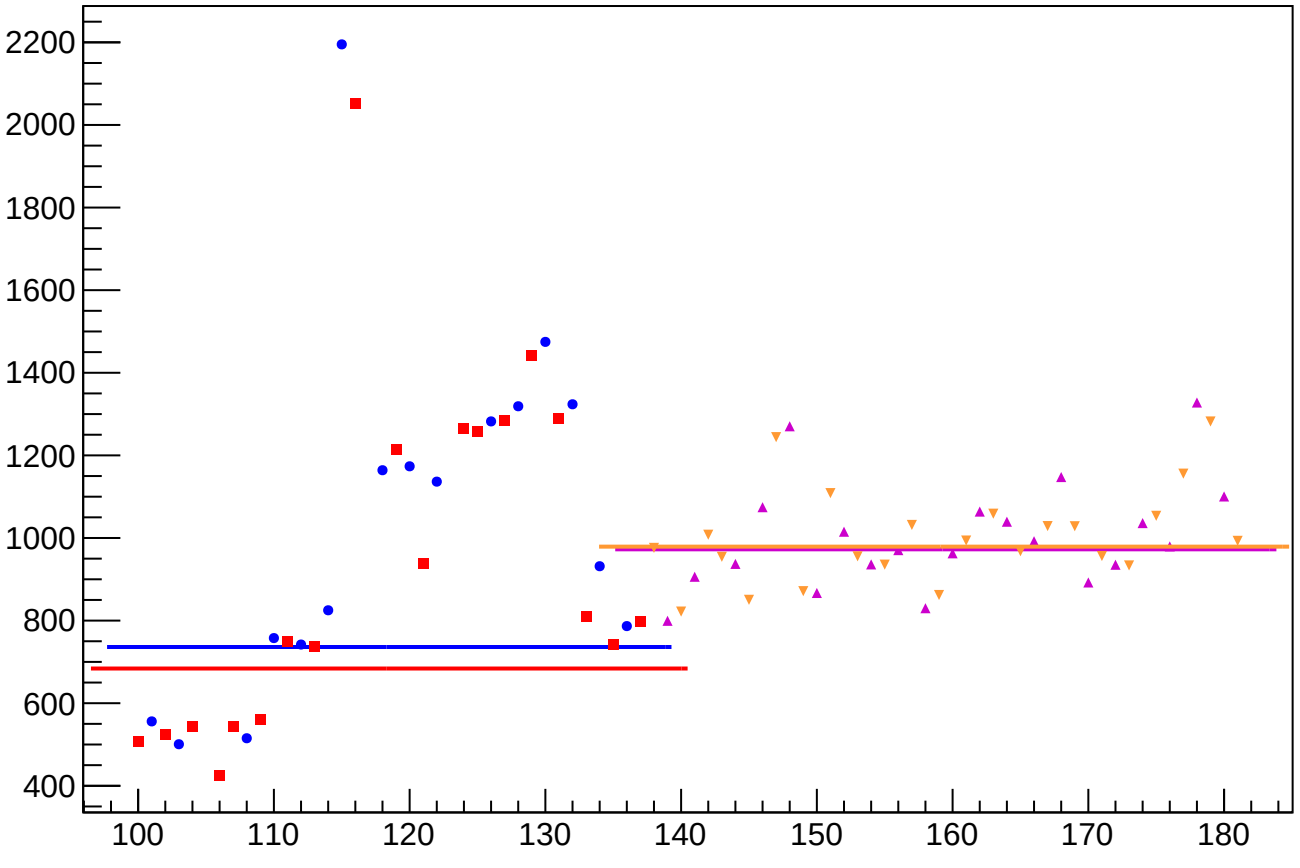
Left: -217.912+/-165.323 $\chi^2$/NDF: 50.5/43

Right: 432.367+/-198.681 $\chi^2$/NDF: 28.2/34

In: 134.155+/-184.269 $\chi^2$/NDF:41.8/36

Out: -29.895+/-175.494 $\chi^2$/NDF:42.7/41

All: 48.131+/-127.082 $\chi^2$/NDF: 85.0/78




Right In: 736.083+/-0.208 $\chi^2$/NDF: 1844498.2/15

Left Out: 979.070+/-0.163 $\chi^2$/NDF:419681.5/22

Right Out: 683.981+/-0.191 $\chi^2$/NDF: 1850402.3/18

Left In: 972.554+/-0.167 $\chi^2$/NDF:497587.8/20

Left: 975.892+/-0.117 $\chi^2$/NDF: 918045.6/43

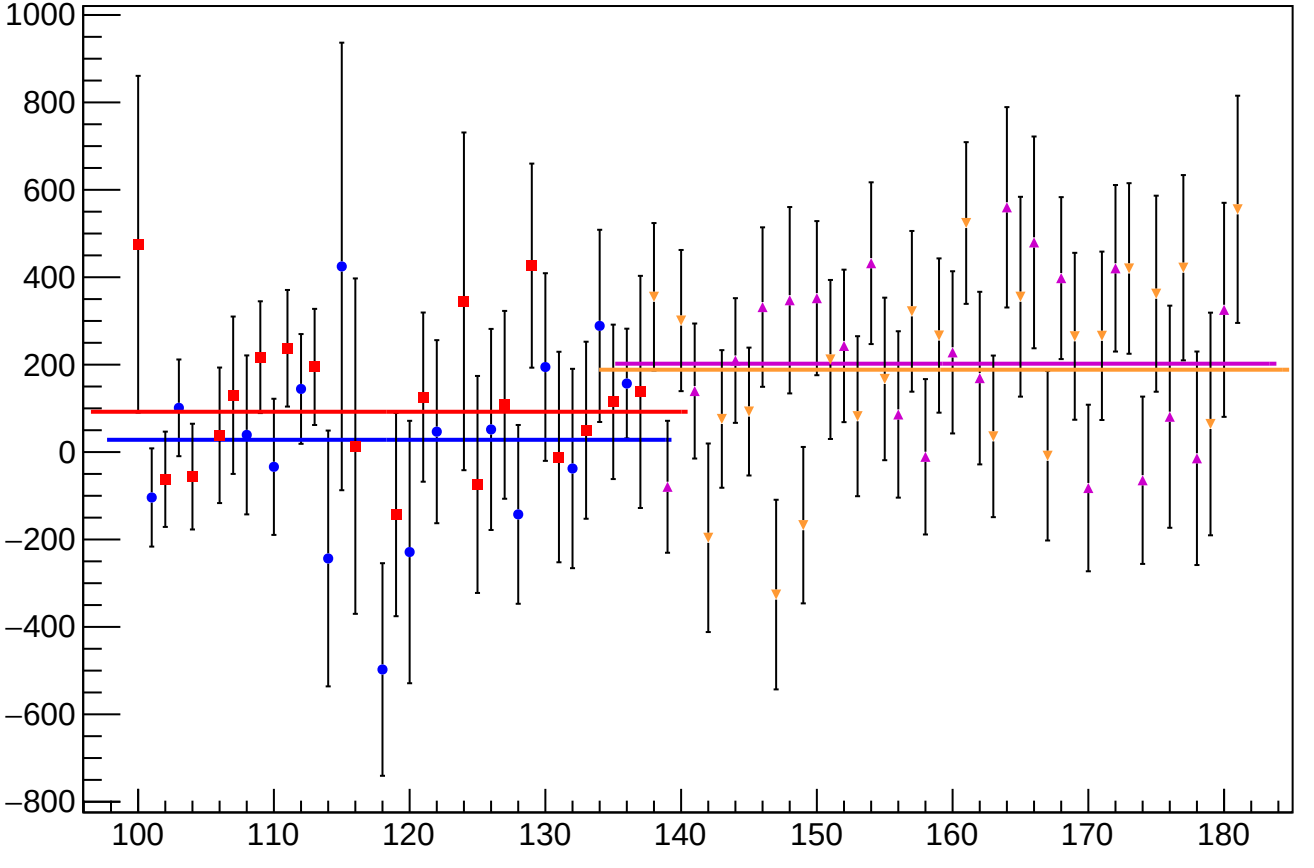
Right: 707.861+/-0.140 $\chi^2$/NDF: 3729047.2/34

In: 879.327+/-0.130 $\chi^2$/NDF:3128666.2/36

Out: 854.360+/-0.124 $\chi^2$/NDF:3649909.6/41

All: 866.235+/-0.090 $\chi^2$/NDF: 6797827.8/78

# dit_asym_sam5_mean vs Slug, Sign Corrected




Right In: 28.094+/-43.439 $\chi^2$/NDF: 13.6/15

Left Out: 188.417+/-39.453 $\chi^2$/NDF:27.6/22

Right Out: 92.247+/-40.539 $\chi^2$/NDF: 11.7/18

Left In: 202.204+/-41.109 $\chi^2$/NDF:20.4/20

Left: 195.028+/-28.465 $\chi^2$/NDF: 48.0/43

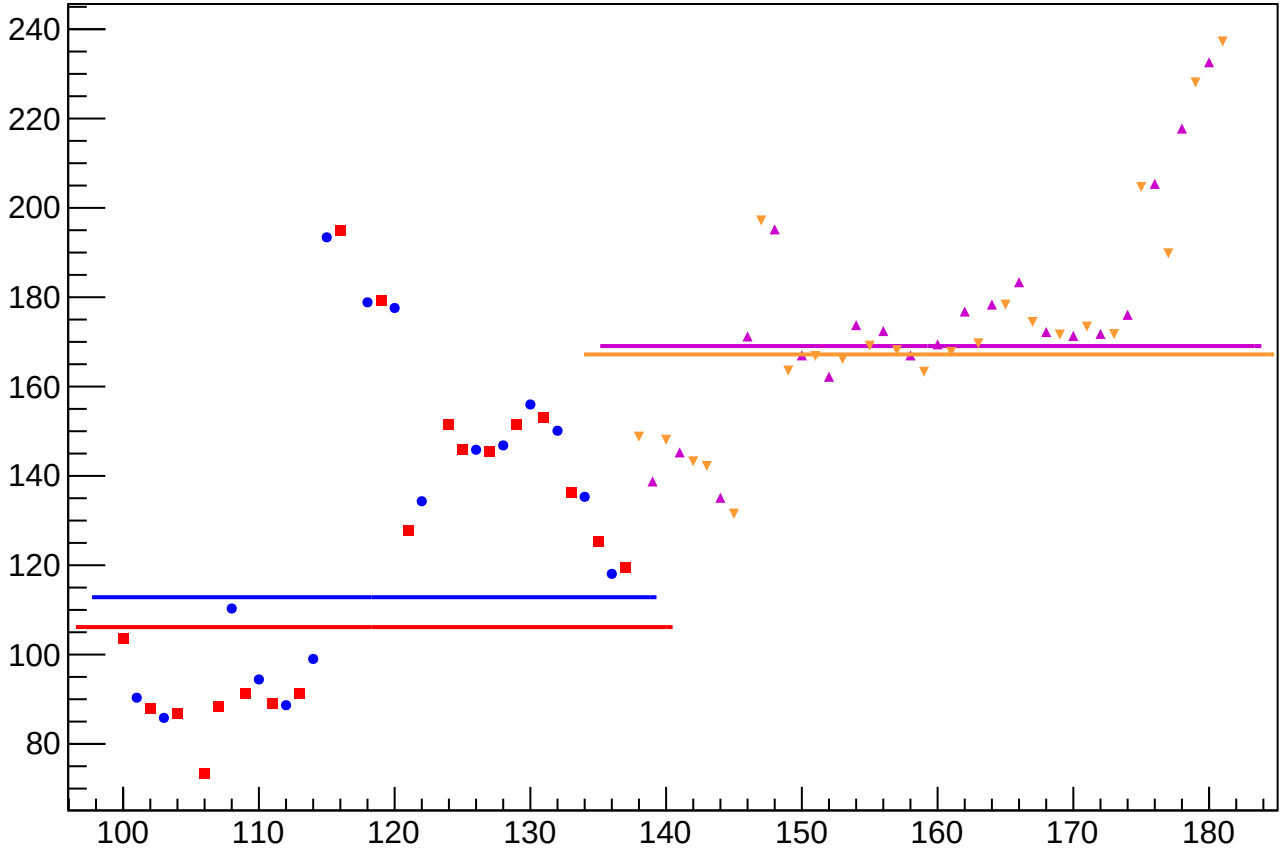
Right: 62.383+/-29.638 $\chi^2$/NDF: 26.4/34

In: 119.943+/-29.858 $\chi^2$/NDF:42.4/36

Out: 141.637+/-28.274 $\chi^2$/NDF:42.2/41

All: 131.381+/-20.530 $\chi^2$/NDF: 84.9/78

# dit_asym_sam5_rms vs Slug, Sign Corrected




Right In: 112.843+/-0.031 $\chi^2$/NDF: 872225.9/15

Left Out: 167.193+/-0.028 $\chi^2$/NDF:636426.5/22

Right Out: 106.159+/-0.029 $\chi^2$/NDF: 1002148.0/18

Left In: 169.073+/-0.029 $\chi^2$/NDF:549580.1/20

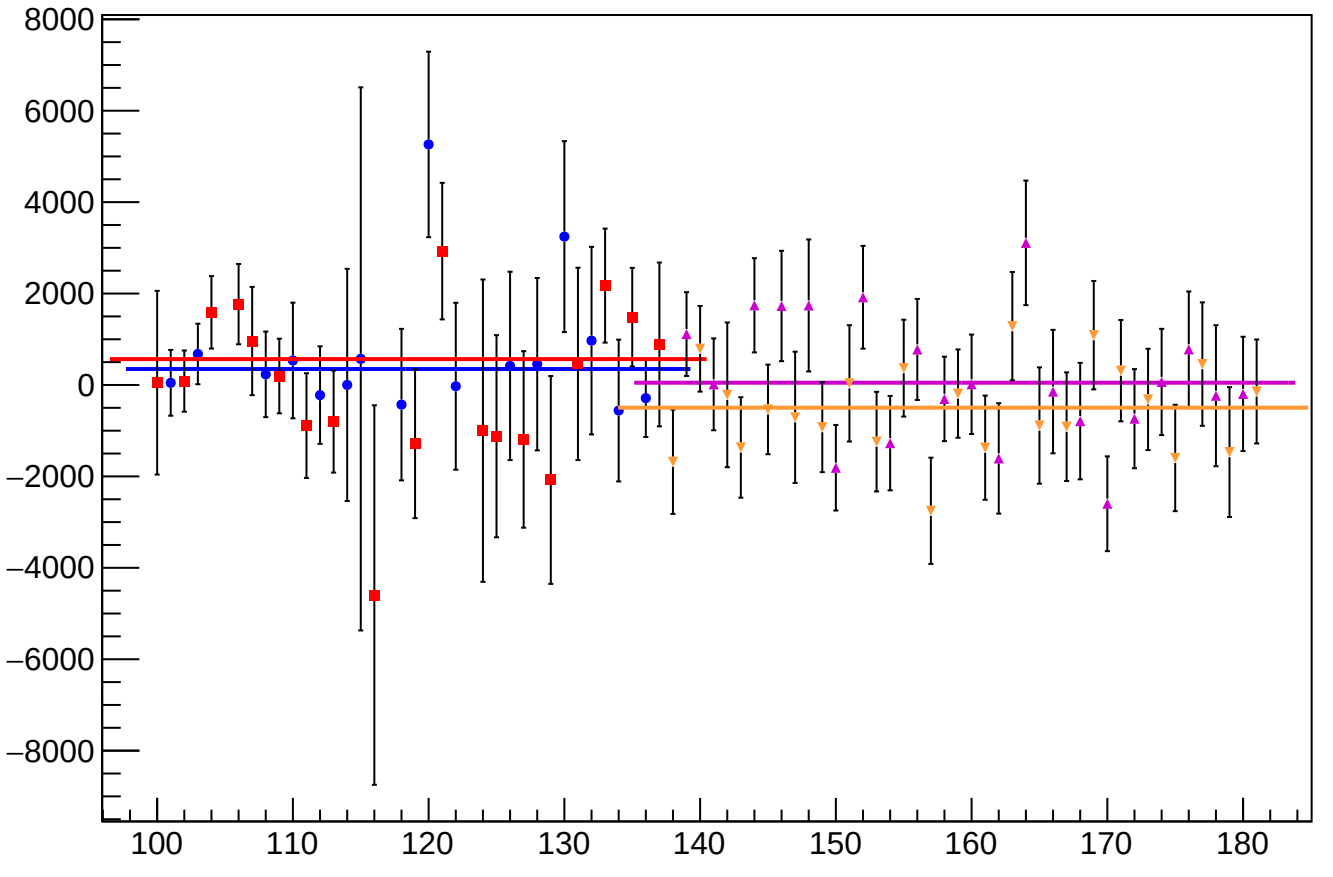
Left: 168.094+/-0.020 $\chi^2$/NDF: 1188182.6/43

Right: 109.270+/-0.021 $\chi^2$/NDF: 1899683.8/34

In: 142.506+/-0.021 $\chi^2$/NDF:3189723.9/36

Out: 137.504+/-0.020 $\chi^2$/NDF:3966906.4/41

All: 139.869+/-0.015 $\chi^2$/NDF: 7186217.0/78




Right In: 349.112+/-305.328 $\chi^2$/NDF: 9.8/15

Left Out: -496.608+/-238.647 $\chi^2$/NDF:16.4/22

Right Out: 566.026+/-279.219 $\chi^2$/NDF: 18.3/18

Left In: 49.523+/-245.522 $\chi^2$/NDF:31.1/20

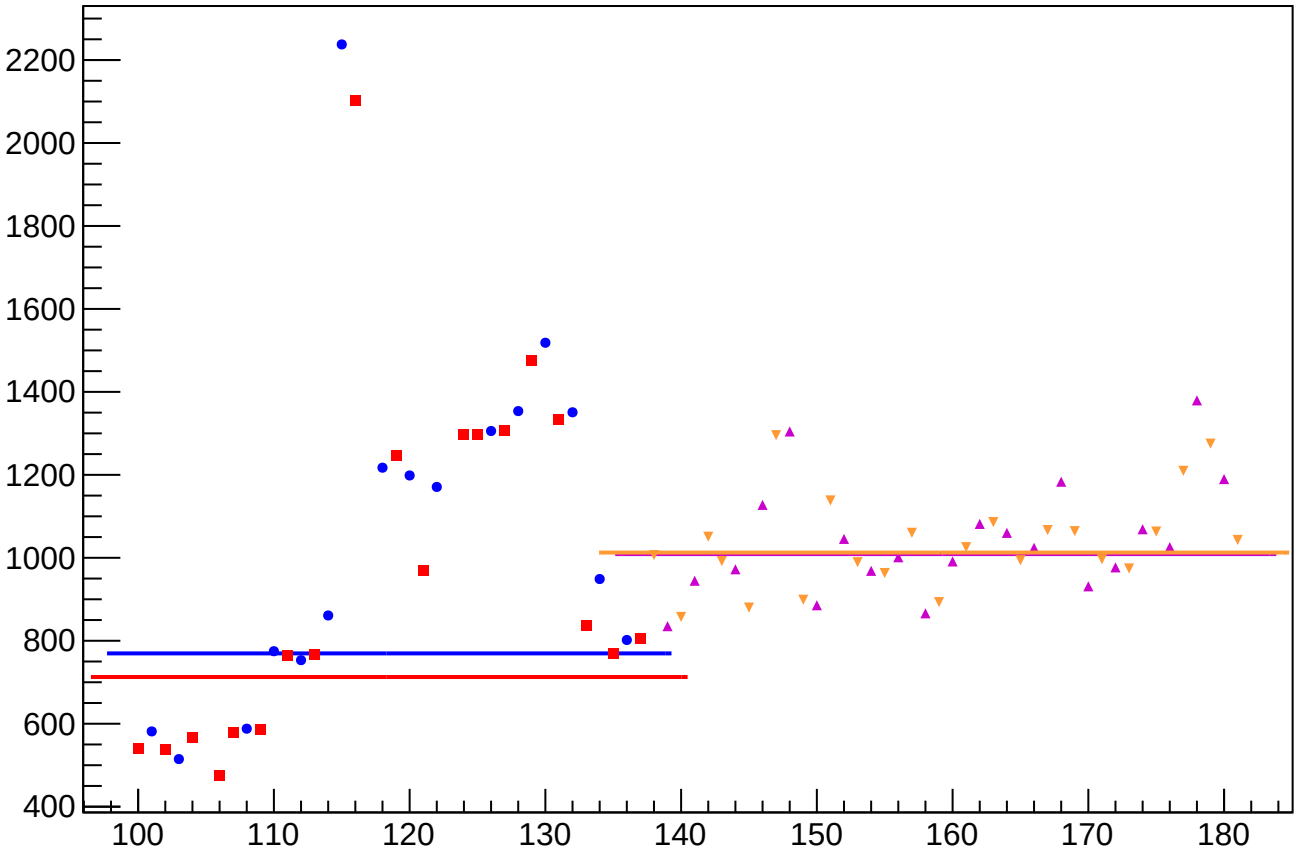
Left: -231.296+/-171.128 $\chi^2$/NDF: 50.0/43

Right: 467.239+/-206.051 $\chi^2$/NDF: 28.4/34

In: 167.170+/-191.335 $\chi^2$/NDF:41.5/36

Out: -48.035+/-181.413 $\chi^2$/NDF:43.1/41

All: 53.844+/-131.646 $\chi^2$/NDF: 85.2/78




Right In: 769.557+/-0.216 $\chi^2$/NDF: 1739937.3/15

Left Out: 1012.682+/-0.169 $\chi^2$/NDF:391779.7/22

Right Out: 712.628+/-0.197 $\chi^2$/NDF: 1767226.6/18

Left In: 1008.949+/-0.174 $\chi^2$/NDF:497847.1/20

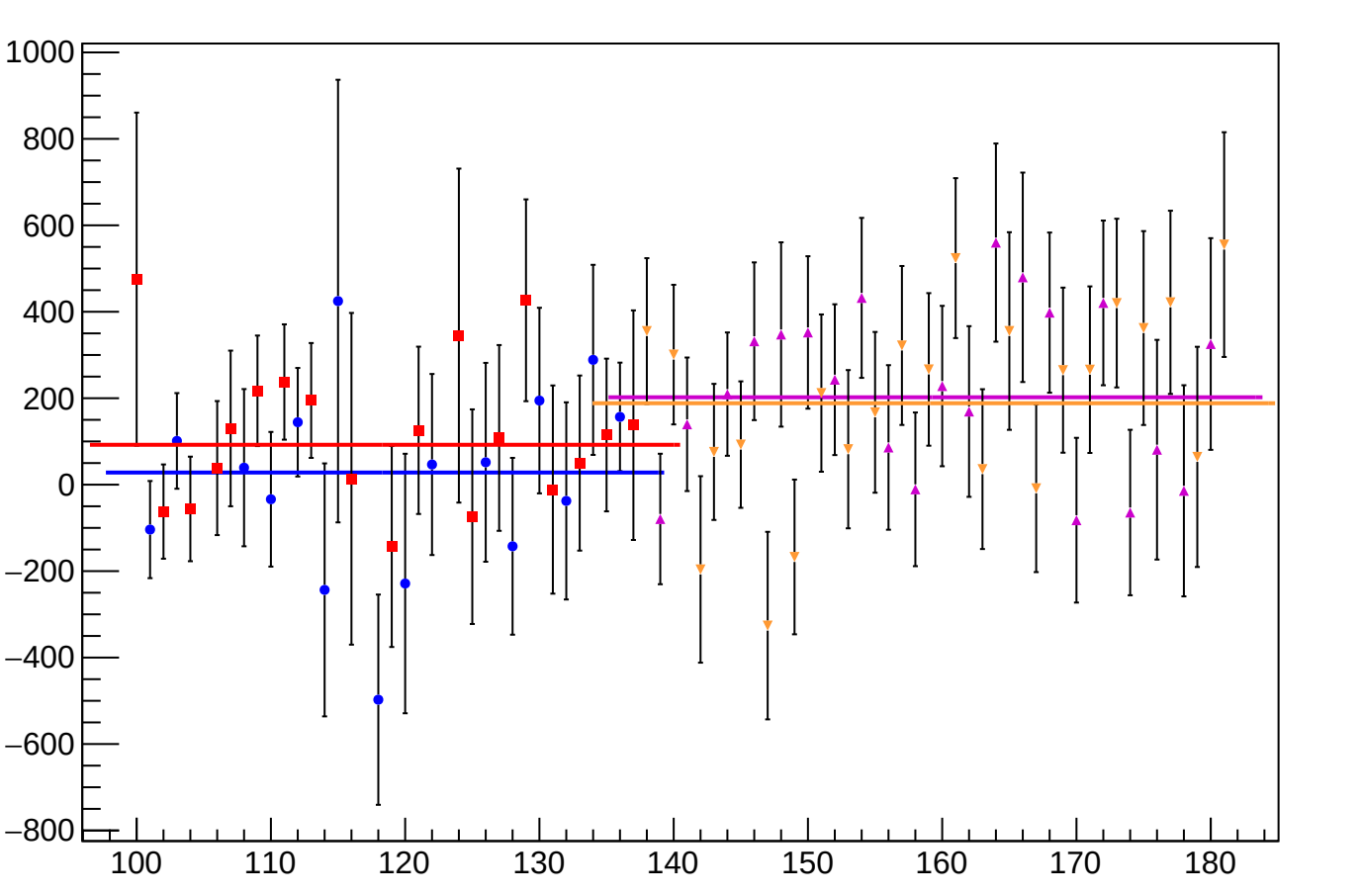
Left: 1010.869+/-0.121 $\chi^2$/NDF: 889864.5/43

Right: 738.555+/-0.146 $\chi^2$/NDF: 3545027.5/34

In: 914.941+/-0.135 $\chi^2$/NDF:2984444.7/36

Out: 886.020+/-0.128 $\chi^2$/NDF:3493655.4/41

All: 899.711+/-0.093 $\chi^2$/NDF: 6502164.5/78




Right In: 28.093+/-43.439 $\chi^2$/NDF: 13.6/15

Left Out: 188.418+/-39.453 $\chi^2$/NDF:27.6/22

Right Out: 92.247+/-40.539 $\chi^2$/NDF: 11.7/18

Left In: 202.204+/-41.109 $\chi^2$/NDF:20.4/20

Left: 195.028+/-28.465 $\chi^2$/NDF: 48.0/43

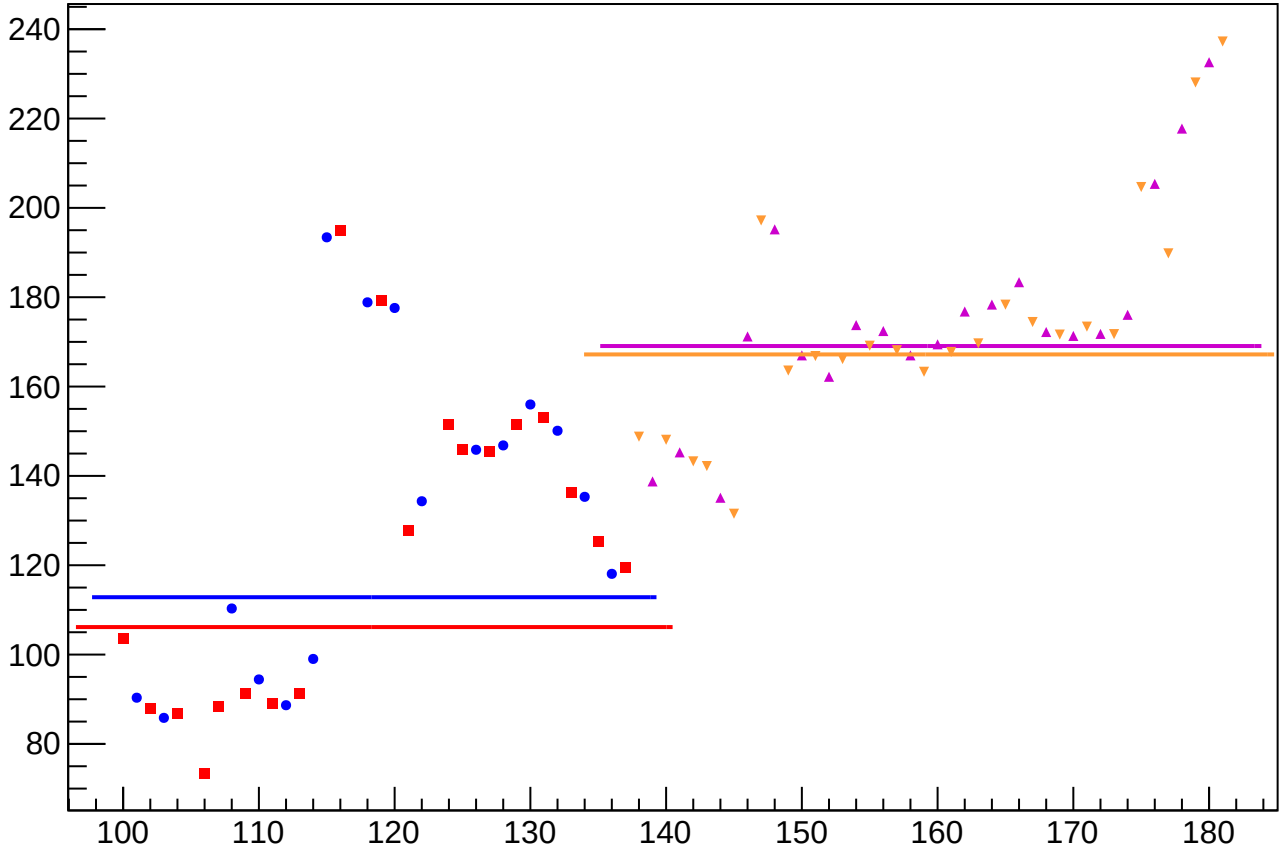
Right: 62.383+/-29.637 $\chi^2$/NDF: 26.4/34

In: 119.942+/-29.858 $\chi^2$/NDF:42.4/36

Out: 141.638+/-28.274 $\chi^2$/NDF:42.2/41

All: 131.381+/-20.530 $\chi^2$/NDF: 84.9/78

# eigen_dit_asym_sam5_rms vs Slug, Sign Corrected




Right In: 112.842+/-0.031 $\chi^2$/NDF: 872219.7/15

Left Out: 167.194+/-0.028 $\chi^2$/NDF:636415.1/22

Right Out: 106.158+/-0.029 $\chi^2$/NDF: 1002136.6/18

Left In: 169.073+/-0.029 $\chi^2$/NDF:549571.3/20

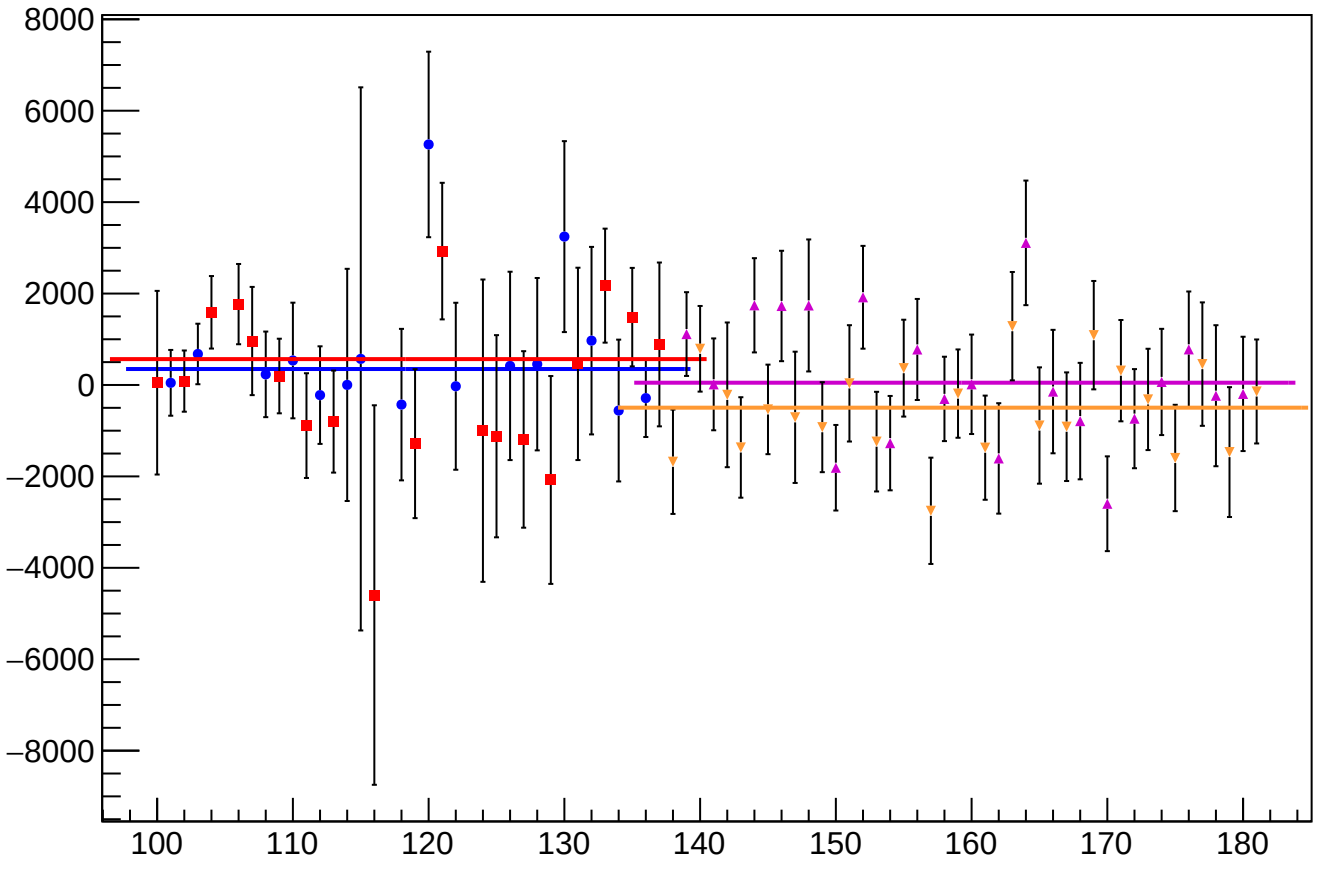
Left: 168.095+/-0.020 $\chi^2$/NDF: 1188162.8/43

Right: 109.270+/-0.021 $\chi^2$/NDF: 1899665.6/34

In: 142.506+/-0.021 $\chi^2$/NDF:3189747.7/36

Out: 137.504+/-0.020 $\chi^2$/NDF:3966912.4/41

All: 139.869+/-0.015 $\chi^2$/NDF: 7186246.9/78




Right In: 349.111+/-305.328 $\chi^2$/NDF: 9.8/15

Left Out: -496.607+/-238.647 $\chi^2$/NDF:16.4/22

Right Out: 566.026+/-279.218 $\chi^2$/NDF: 18.3/18

Left In: 49.524+/-245.523 $\chi^2$/NDF:31.1/20

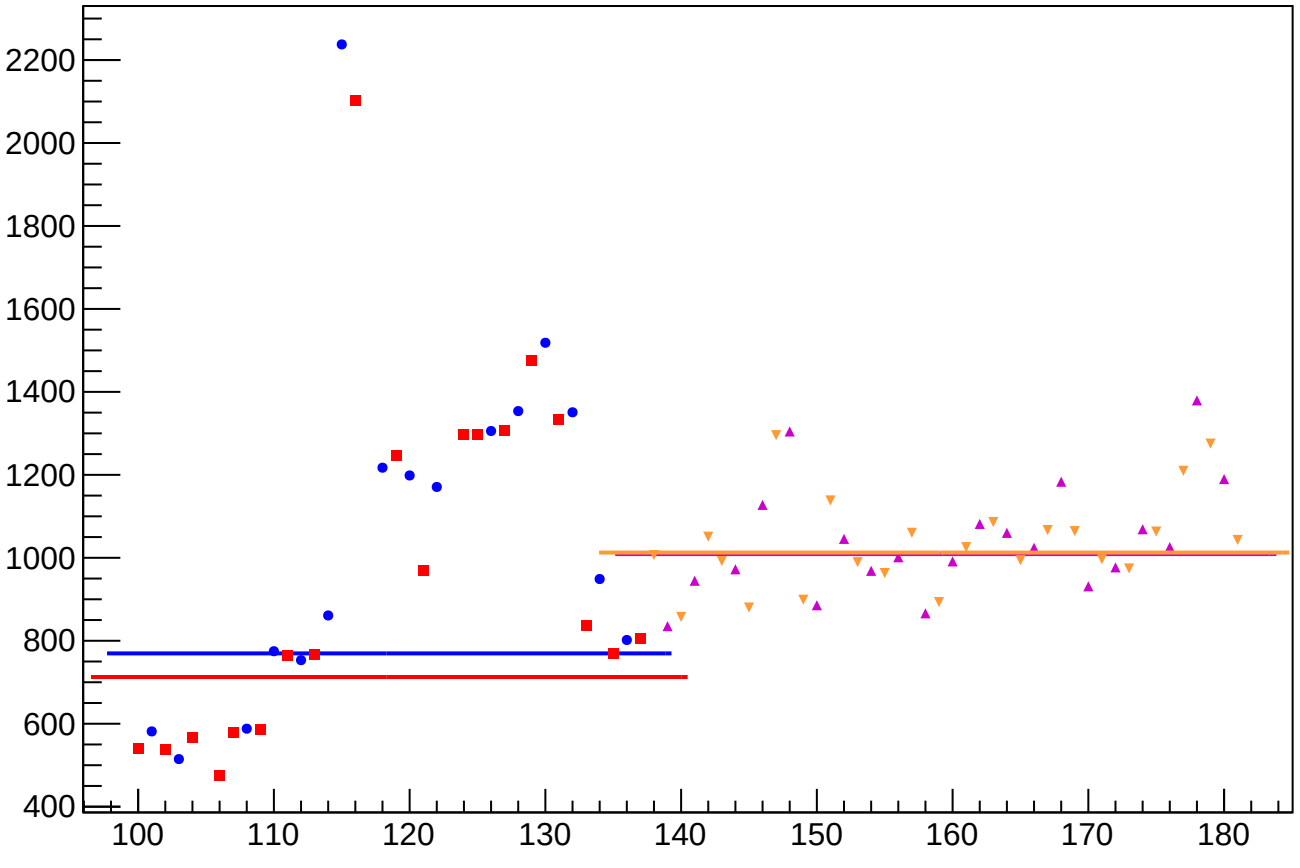
Left: -231.296+/-171.128 $\chi^2$/NDF: 50.0/43

Right: 467.238+/-206.050 $\chi^2$/NDF: 28.4/34

In: 167.171+/-191.335 $\chi^2$/NDF:41.5/36

Out: -48.033+/-181.413 $\chi^2$/NDF:43.1/41

All: 53.845+/-131.646 $\chi^2$/NDF: 85.2/78




Right In: 769.556+/-0.216 $\chi^2$/NDF: 1739933.9/15

Left Out: 1012.683+/-0.169 $\chi^2$/NDF:391778.2/22

Right Out: 712.627+/-0.197 $\chi^2$/NDF: 1767219.7/18

Left In: 1008.951+/-0.174 $\chi^2$/NDF:497847.3/20

Left: 1010.870+/-0.121 $\chi^2$/NDF: 889863.1/43

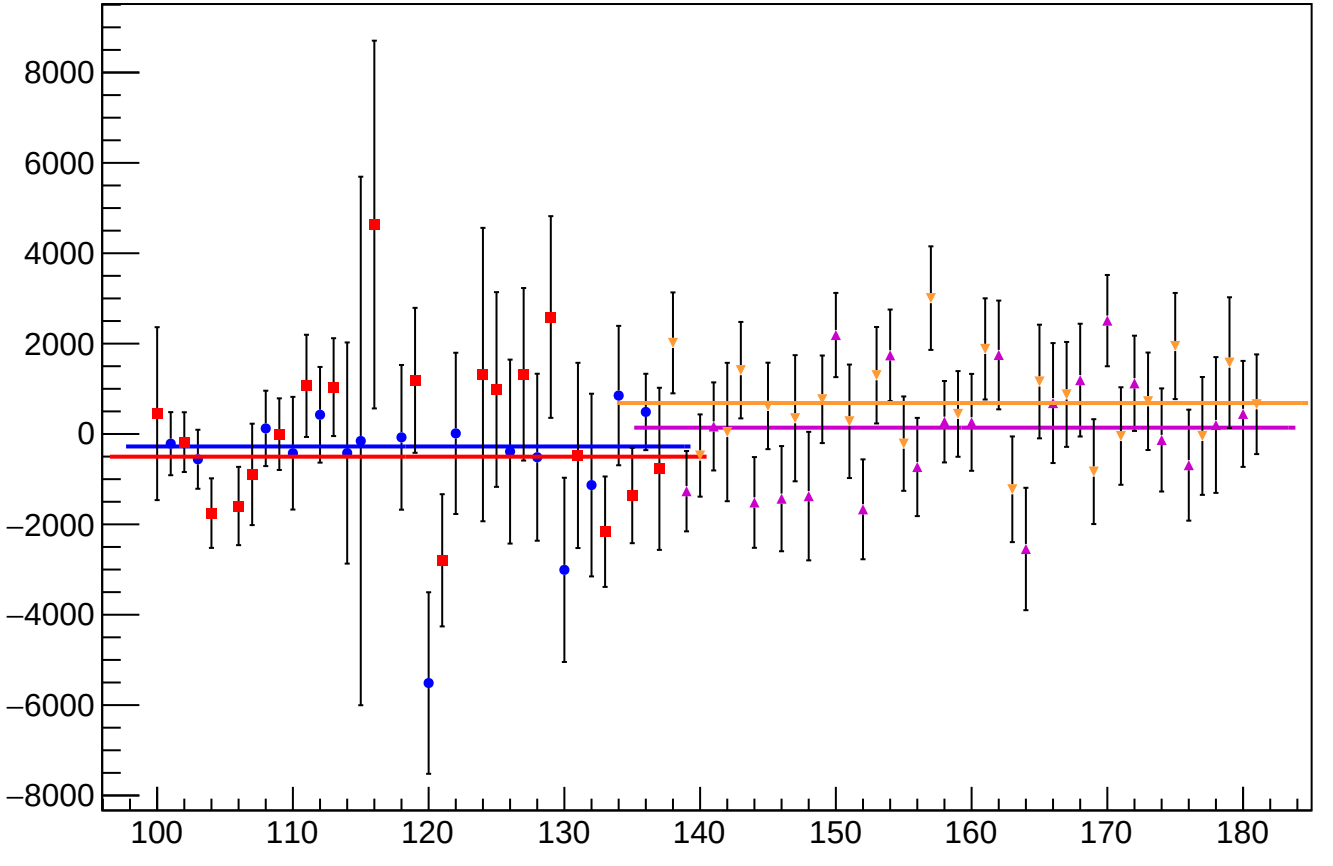
Right: 738.554+/-0.146 $\chi^2$/NDF: 3545017.2/34

In: 914.941+/-0.135 $\chi^2$/NDF:2984458.6/36

Out: 886.019+/-0.128 $\chi^2$/NDF:3493668.4/41

All: 899.711+/-0.093 $\chi^2$/NDF: 6502191.7/78

# asym_sam5_mean vs Slug, Sign Corrected




Right In: -276.199+/-296.708 $\chi^2$/NDF: 11.1/15

Left Out: 685.517+/-234.006 $\chi^2$/NDF:17.1/22

Right Out: -501.985+/-272.991 $\chi^2$/NDF: 20.5/18

Left In: 139.820+/-240.002 $\chi^2$/NDF:32.4/20

Left: 419.570+/-167.547 $\chi^2$/NDF: 52.2/43

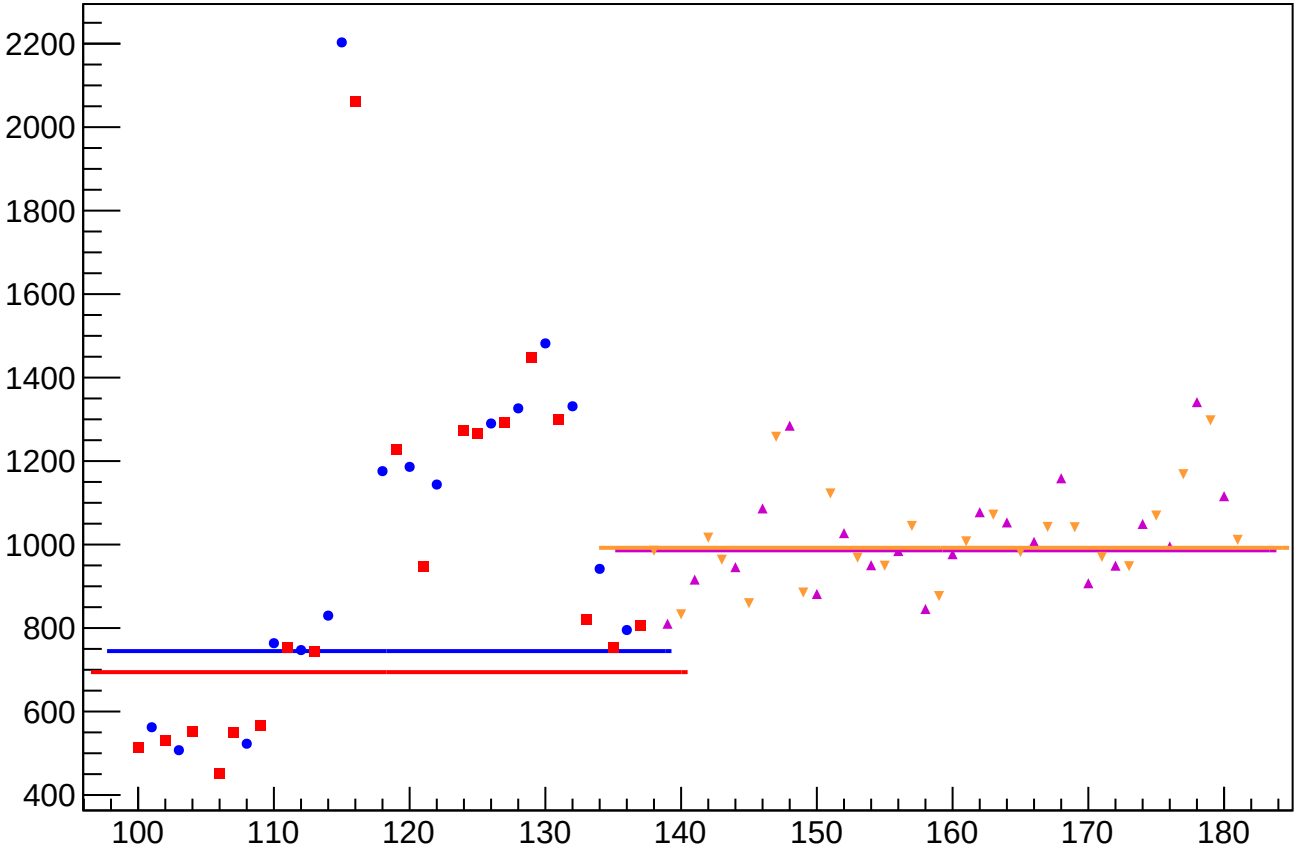
Right: -398.475+/-200.896 $\chi^2$/NDF: 31.9/34

In: -24.720+/-186.599 $\chi^2$/NDF:44.7/36

Out: 182.540+/-177.666 $\chi^2$/NDF:48.5/41

All: 83.990+/-128.671 $\chi^2$/NDF: 93.8/78

# asym_sam5_rms vs Slug, Sign Corrected




Right In: 744.783+/-0.210 $\chi^2$/NDF: 1822553.5/15

Left Out: 992.228+/-0.165 $\chi^2$/NDF:414918.3/22

Right Out: 694.348+/-0.193 $\chi^2$/NDF: 1803741.9/18

Left In: 986.177+/-0.170 $\chi^2$/NDF:486146.3/20

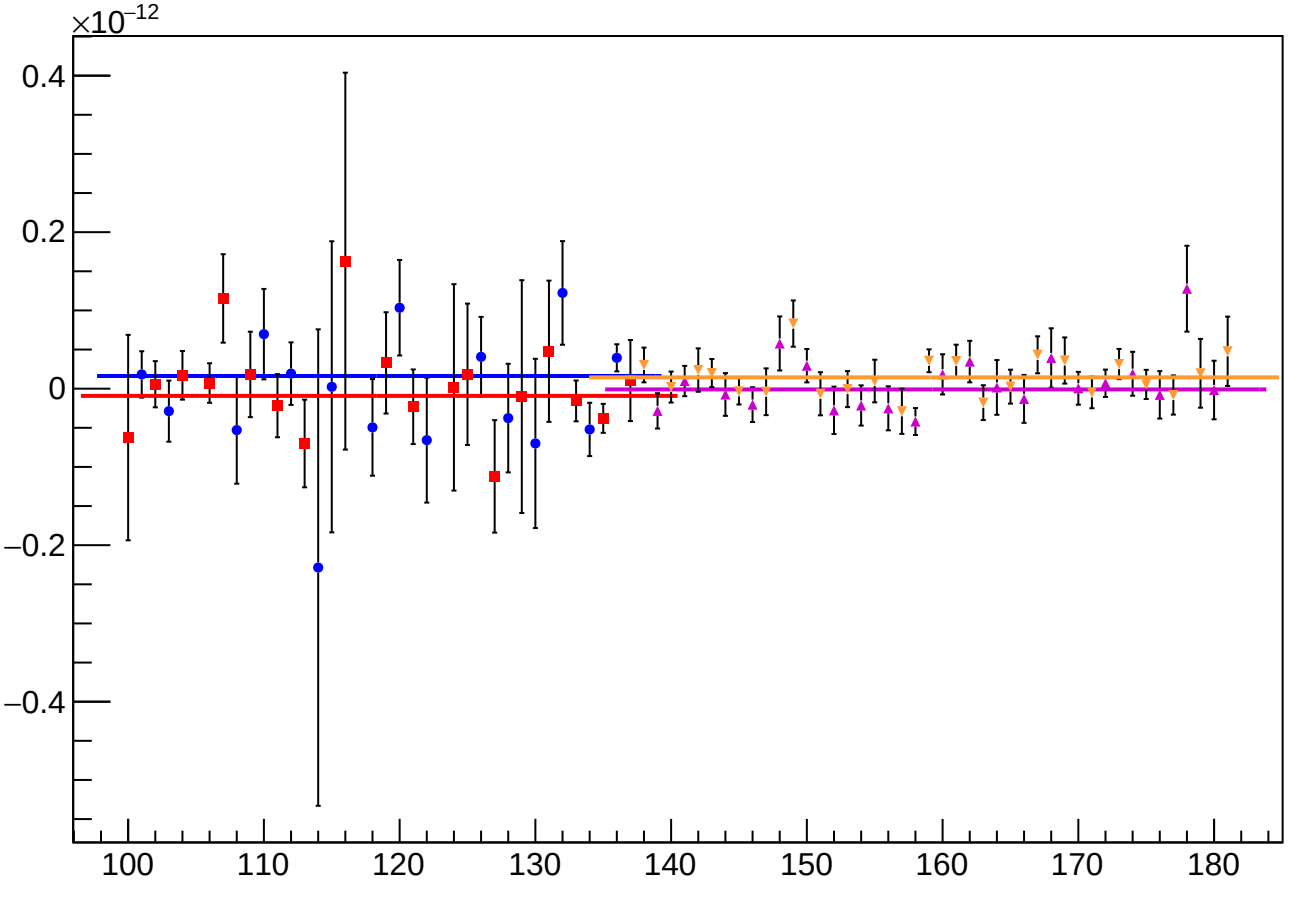
Left: 989.279+/-0.118 $\chi^2$/NDF: 901716.4/43

Right: 717.469+/-0.142 $\chi^2$/NDF: 3657590.2/34

In: 890.703+/-0.132 $\chi^2$/NDF:3108927.8/36

Out: 866.059+/-0.126 $\chi^2$/NDF:3591349.7/41

All: 877.777+/-0.091 $\chi^2$/NDF: 6718575.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.1/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.3/20

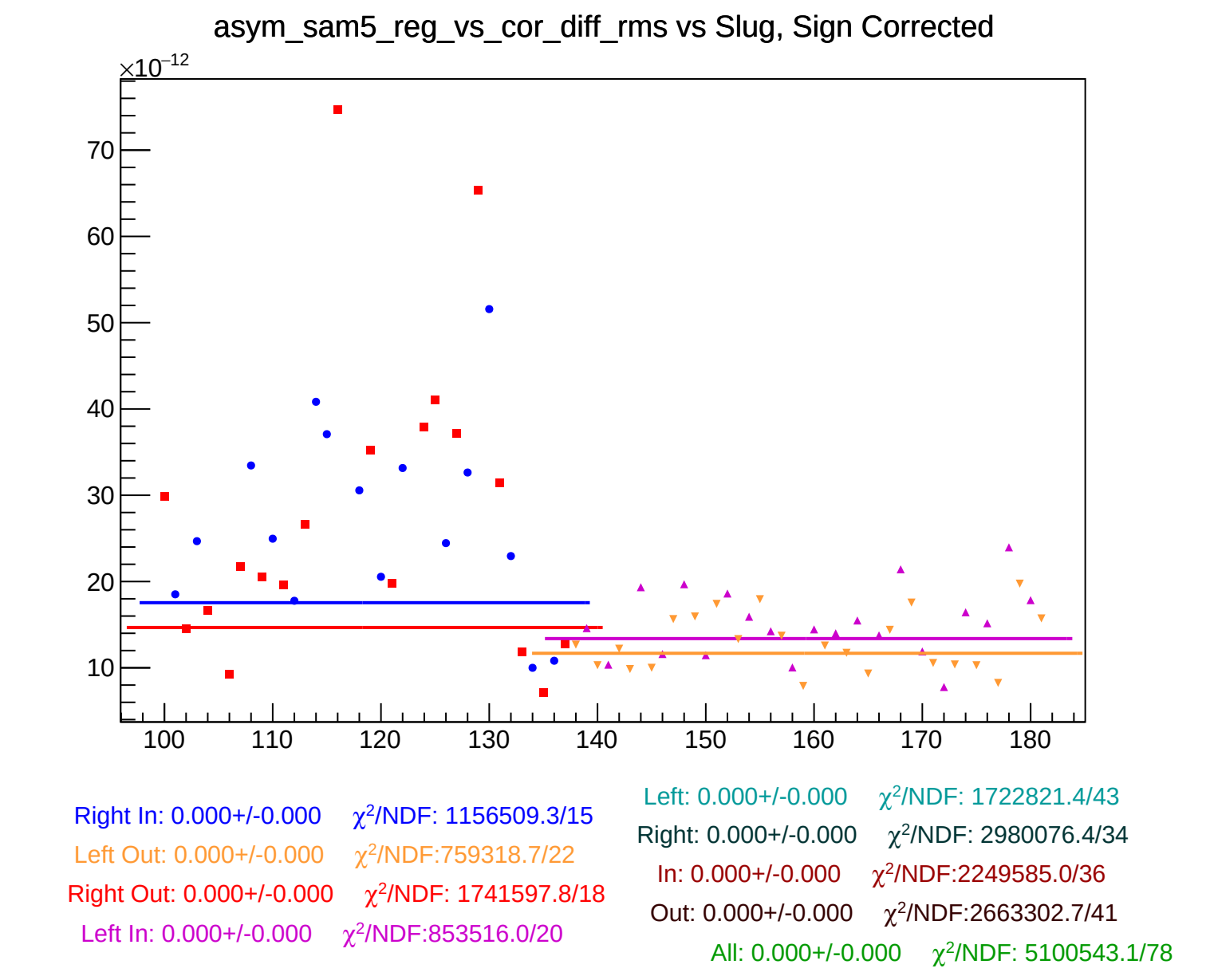
Left: 0.000+/-0.000 $\chi^2$/NDF: 51.9/43

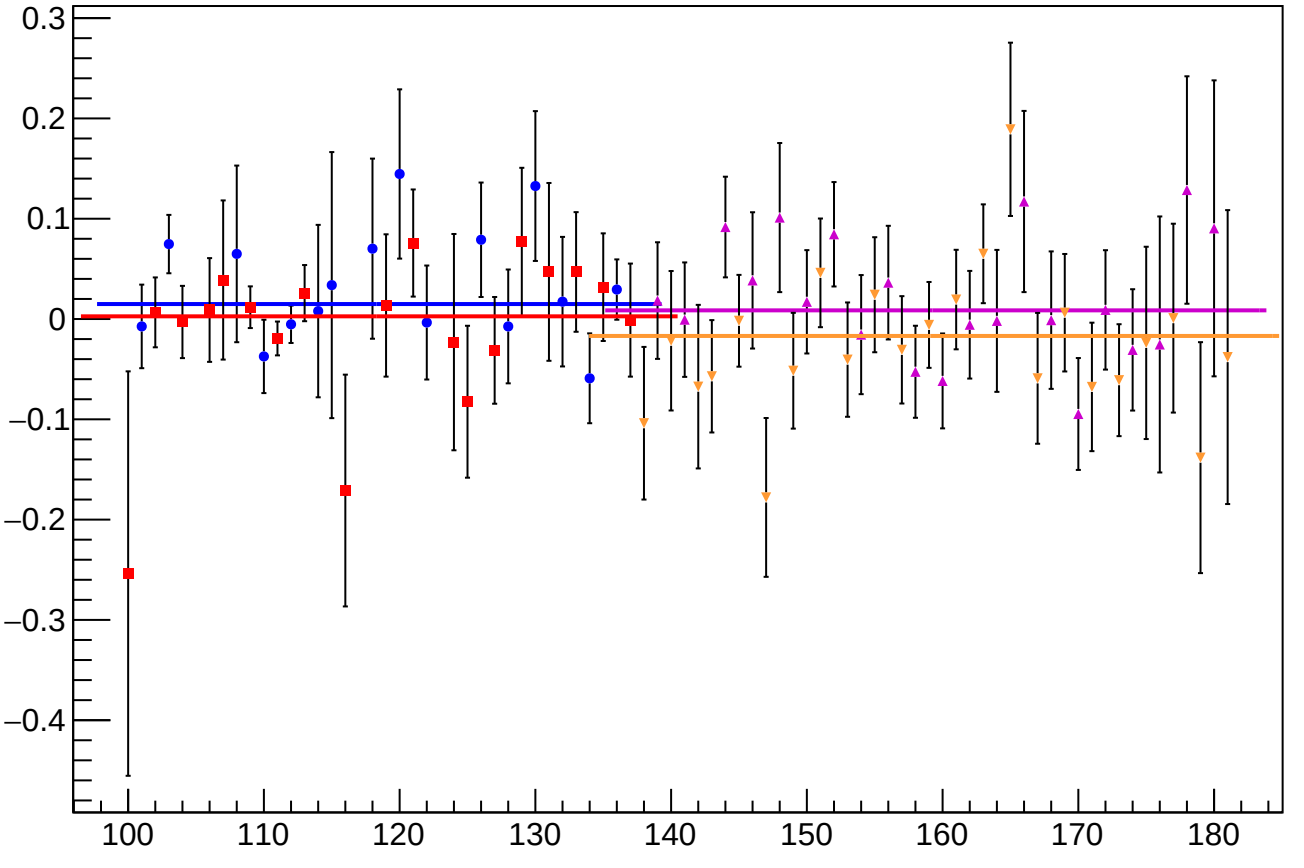
Right: 0.000+/-0.000 $\chi^2$/NDF: 35.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:45.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:41.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 87.8/78


asym_sam5_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1156509.3/15
Left Out: 0.000+/-0.000 χ²/NDF:759318.7/22
Right Out: 0.000+/-0.000 χ²/NDF: 1741597.8/18
Left In: 0.000+/-0.000 χ²/NDF:853516.0/20
Left: 0.000+/-0.000 χ²/NDF: 1722821.4/43
Right: 0.000+/-0.000 χ²/NDF: 2980076.4/34
In: 0.000+/-0.000 χ²/NDF:2249585.0/36
Out: 0.000+/-0.000 χ²/NDF:2663302.7/41
All: 0.000+/-0.000 χ²/NDF: 5100543.1/78




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.017+/-0.013 $\chi^2$/NDF:21.0/22

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.009+/-0.013 $\chi^2$/NDF:18.0/20

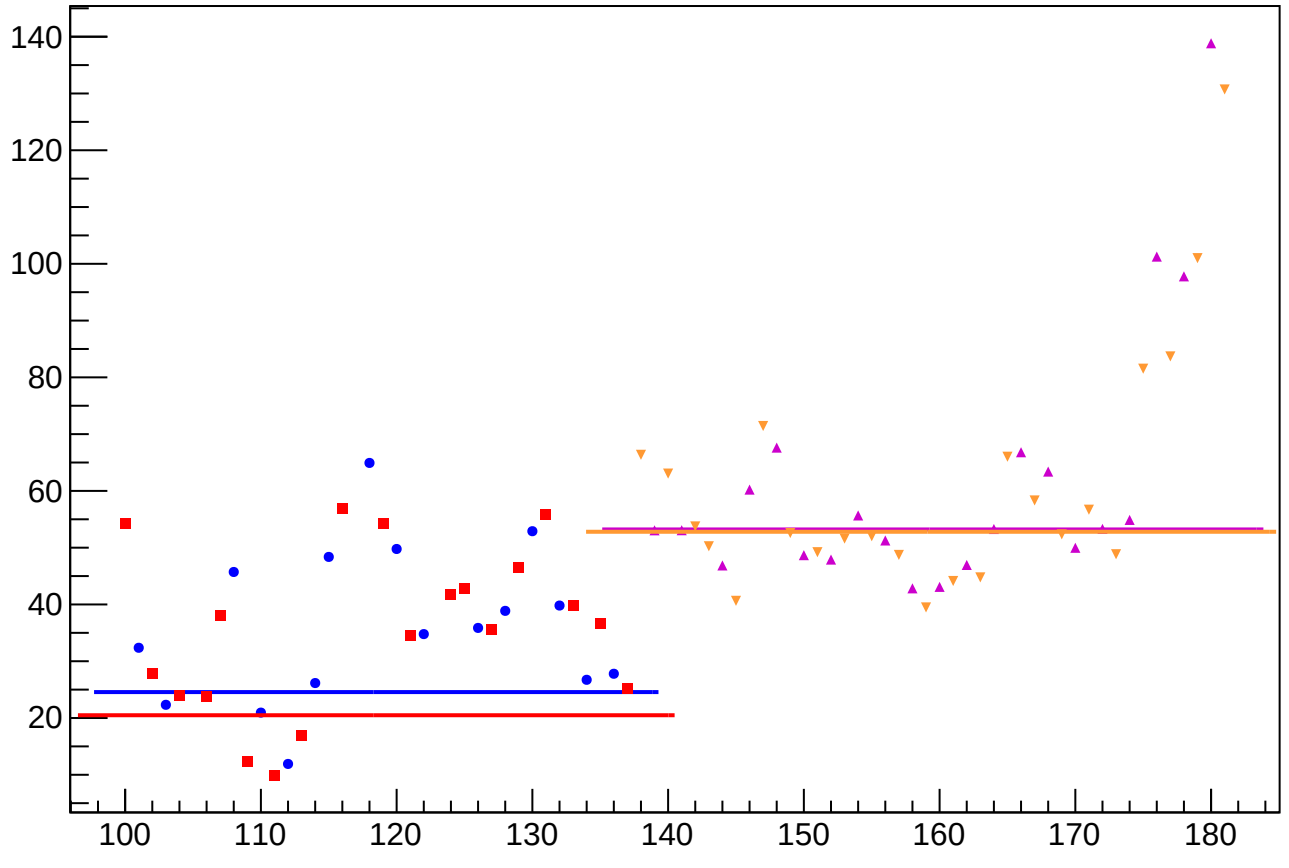
Left: -0.005+/-0.009 $\chi^2$/NDF: 40.9/43

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.012+/-0.008 $\chi^2$/NDF:35.9/36

Out: -0.004+/-0.008 $\chi^2$/NDF:34.9/41

All: 0.003+/-0.006 $\chi^2$/NDF: 73.0/78




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484530.5/15

Left Out: 52.804+/-0.009 $\chi^2$/NDF:2082558.5/22

Right Out: 20.488+/-0.007 $\chi^2$/NDF: 3583938.4/18

Left In: 53.211+/-0.009 $\chi^2$/NDF:1755475.4/20

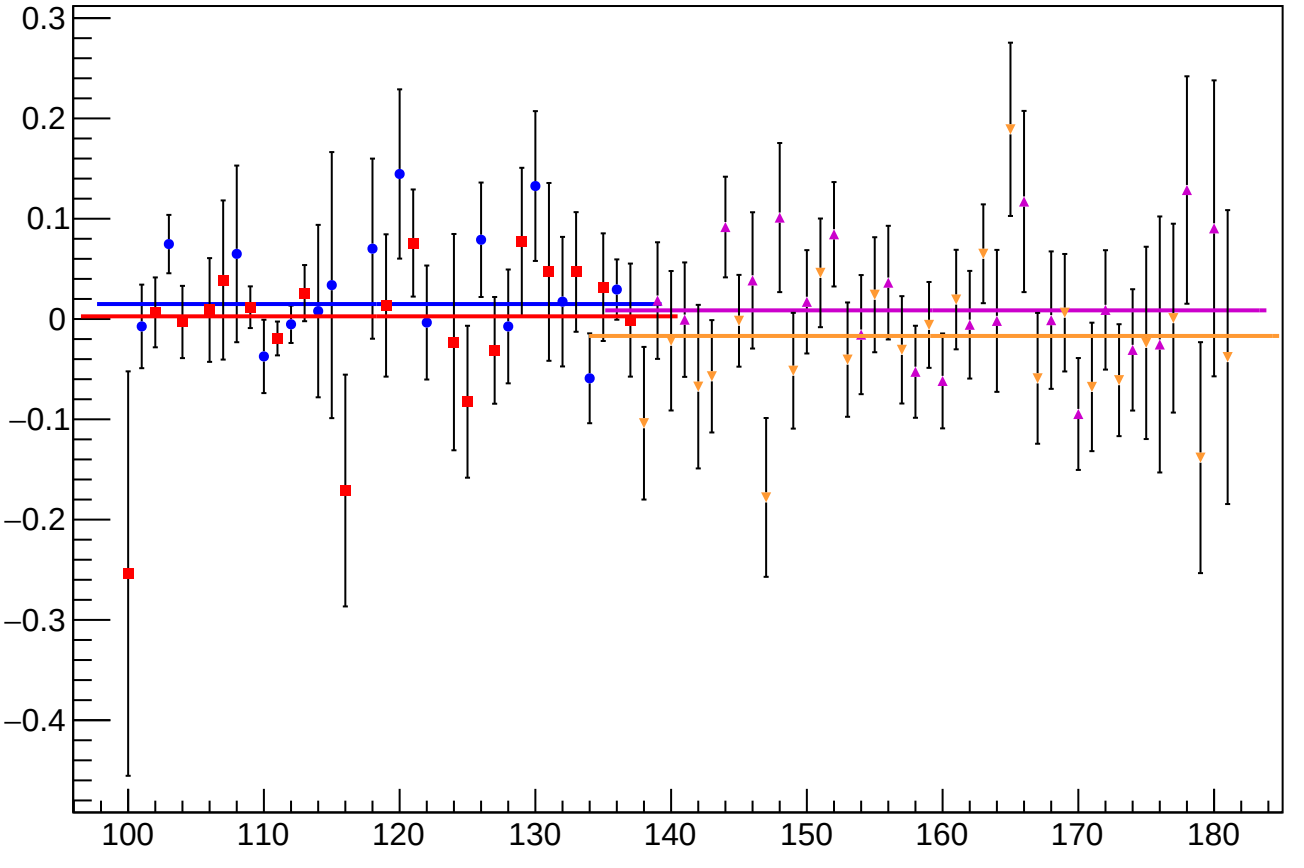
Left: 53.000+/-0.007 $\chi^2$/NDF: 3838998.6/43

Right: 22.248+/-0.005 $\chi^2$/NDF: 6237147.6/34

In: 35.619+/-0.006 $\chi^2$/NDF:9889095.9/36

Out: 31.438+/-0.005 $\chi^2$/NDF:13980696.3/41

All: 33.318+/-0.004 $\chi^2$/NDF: 24149206.5/78




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.017+/-0.013 $\chi^2$/NDF:21.0/22

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.009+/-0.013 $\chi^2$/NDF:18.0/20

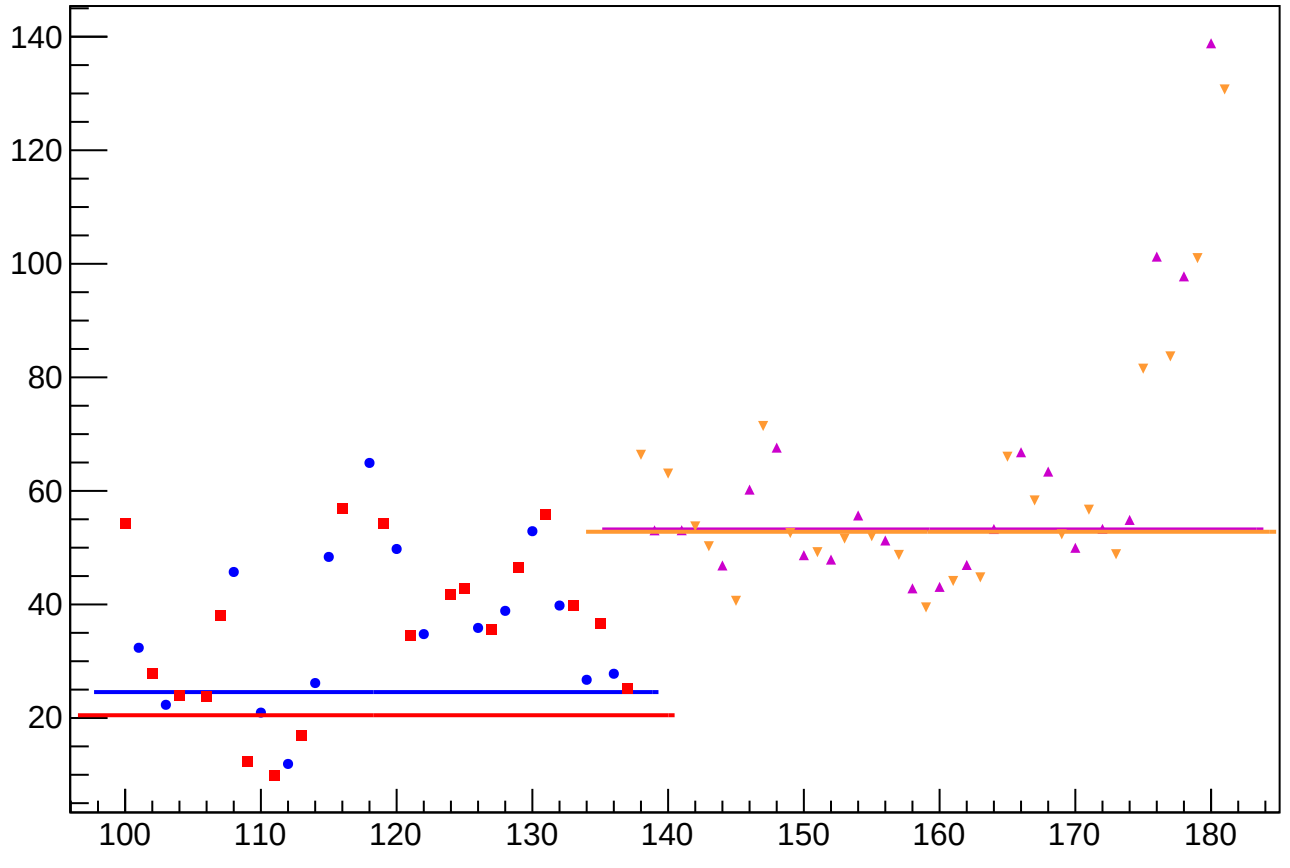
Left: -0.005+/-0.009 $\chi^2$/NDF: 40.9/43

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.012+/-0.008 $\chi^2$/NDF:35.9/36

Out: -0.004+/-0.008 $\chi^2$/NDF:34.9/41

All: 0.003+/-0.006 $\chi^2$/NDF: 73.0/78




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484530.5/15

Left Out: 52.804+/-0.009 $\chi^2$/NDF:2082558.5/22

Right Out: 20.488+/-0.007 $\chi^2$/NDF: 3583938.4/18

Left In: 53.211+/-0.009 $\chi^2$/NDF:1755475.4/20

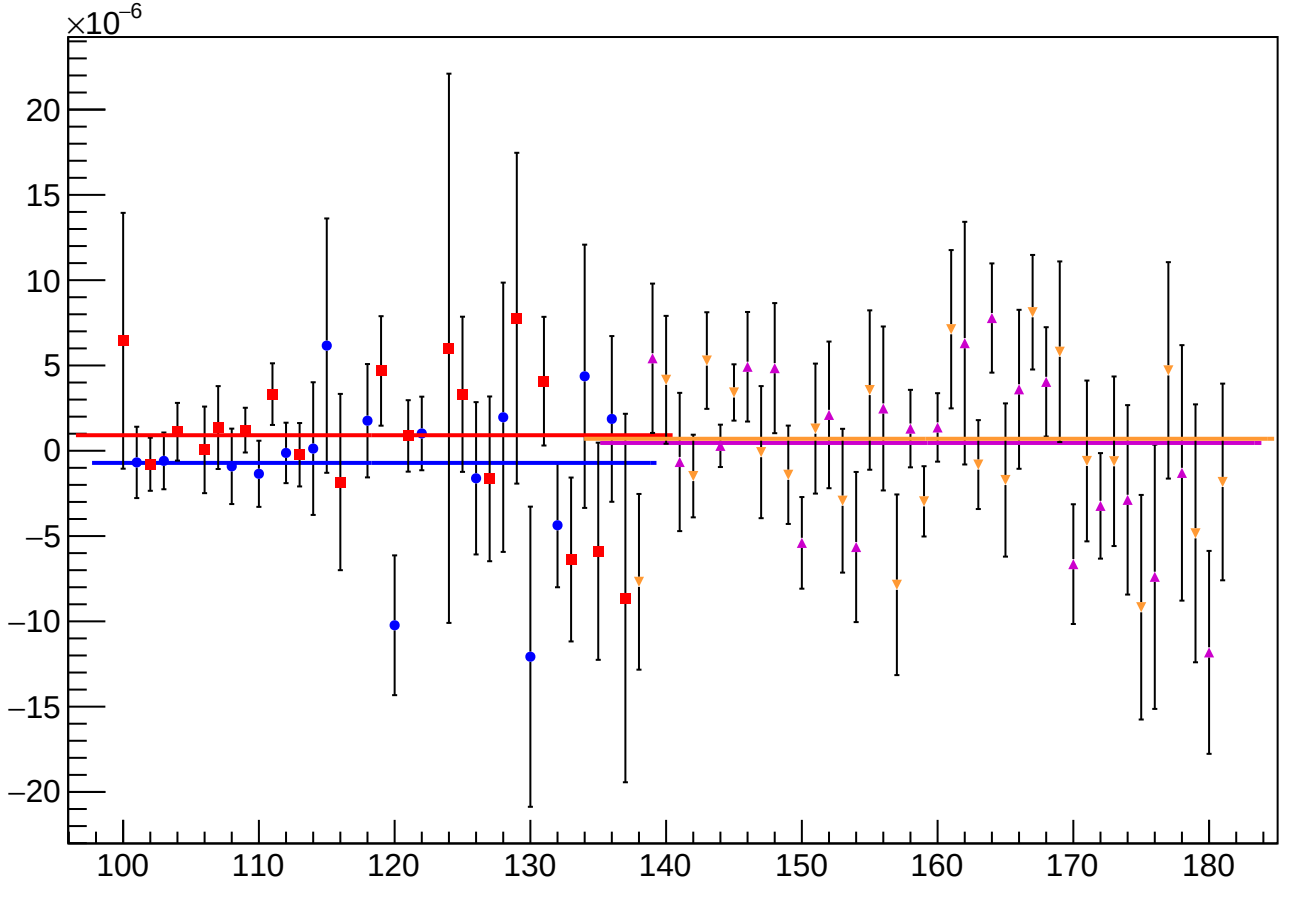
Left: 53.000+/-0.007 $\chi^2$/NDF: 3838998.6/43

Right: 22.248+/-0.005 $\chi^2$/NDF: 6237147.6/34

In: 35.619+/-0.006 $\chi^2$/NDF:9889095.9/36

Out: 31.438+/-0.005 $\chi^2$/NDF:13980696.3/41

All: 33.318+/-0.004 $\chi^2$/NDF: 24149206.5/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:29.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:30.8/20

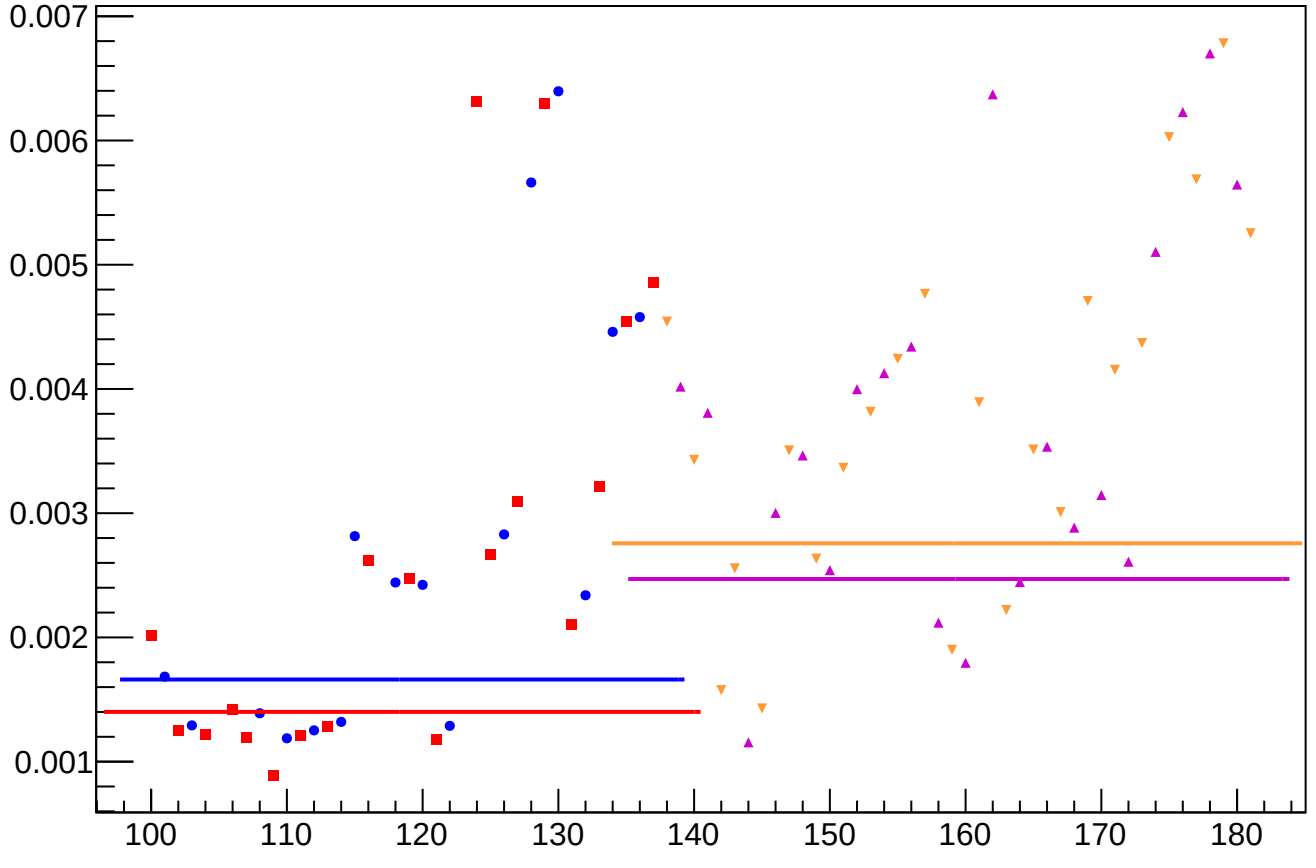
Left: 0.000+/-0.000 $\chi^2$/NDF: 59.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:43.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:40.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 86.4/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2942035.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:5970846.4/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2915624.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:6963519.7/20

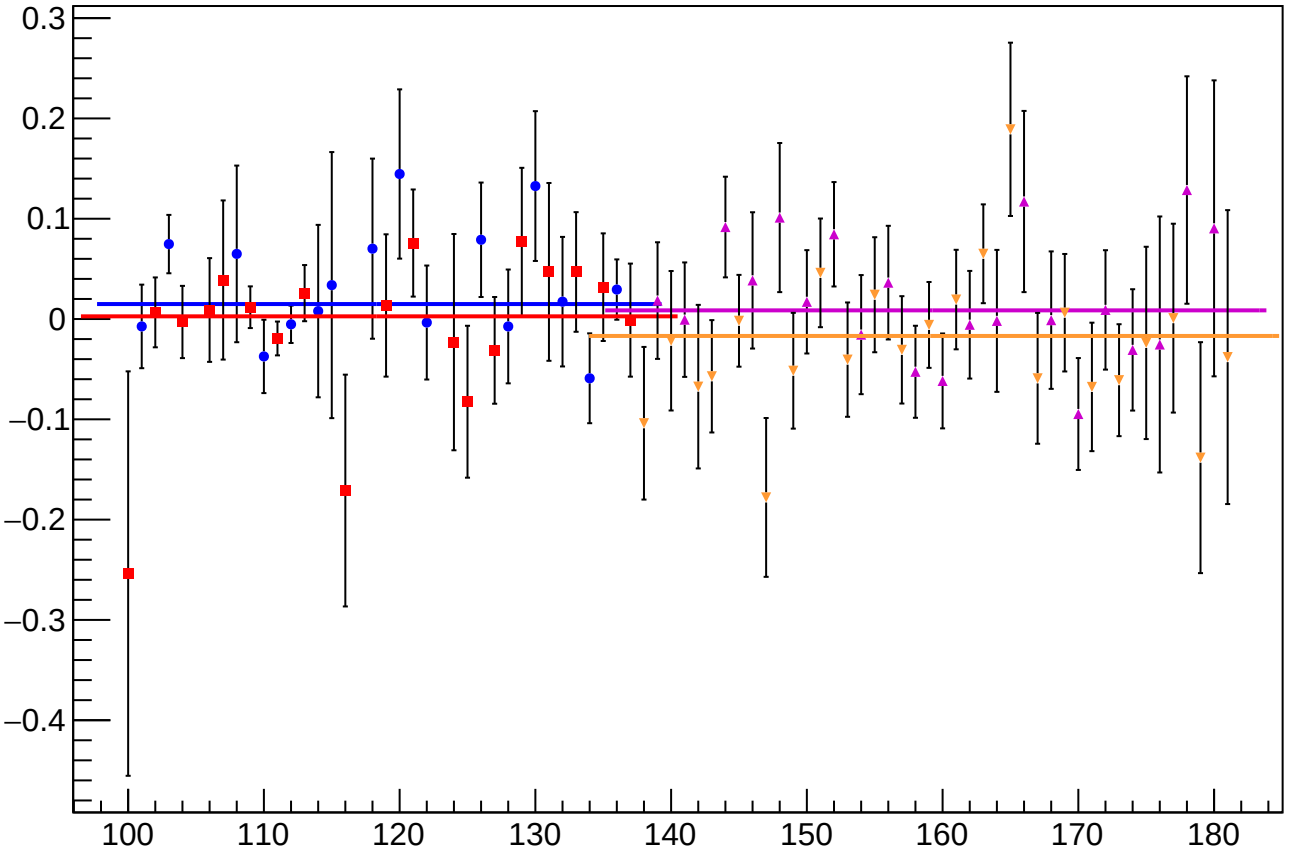
Left: 0.003+/-0.000 $\chi^2$/NDF: 13104558.5/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 6020323.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:11292012.6/36

Out: 0.002+/-0.000 $\chi^2$/NDF:13175531.2/41

All: 0.002+/-0.000 $\chi^2$/NDF: 24549282.5/78




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.017+/-0.013 $\chi^2$/NDF:21.0/22

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.009+/-0.013 $\chi^2$/NDF:18.0/20

Left: -0.005+/-0.009 $\chi^2$/NDF: 40.9/43

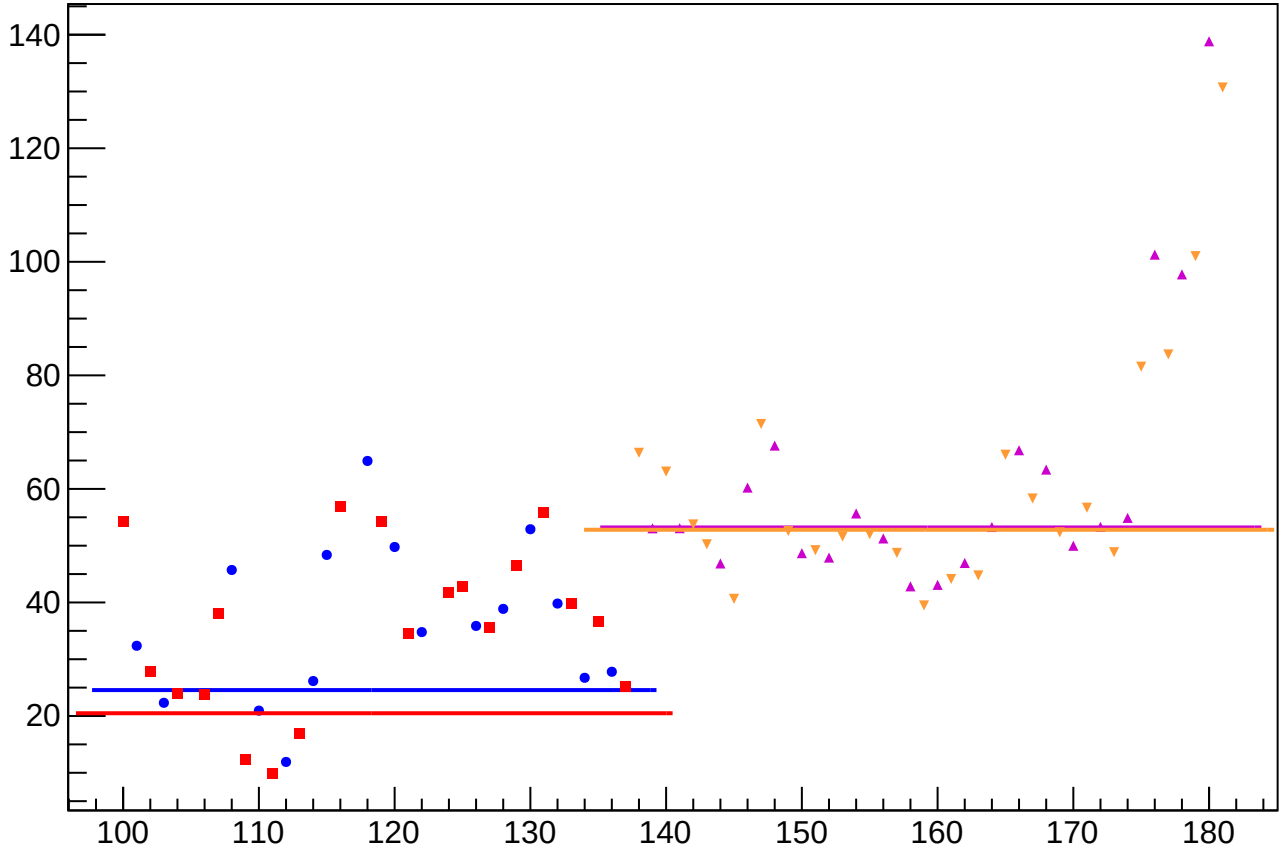
Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.012+/-0.008 $\chi^2$/NDF:35.9/36

Out: -0.004+/-0.008 $\chi^2$/NDF:34.9/41

All: 0.003+/-0.006 $\chi^2$/NDF: 73.0/78

asym_sam5_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484434.5/15

Left Out: 52.804+/-0.009 $\chi^2$/NDF:2082607.9/22

Right Out: 20.487+/-0.007 $\chi^2$/NDF: 3583888.1/18

Left In: 53.211+/-0.009 $\chi^2$/NDF:1755518.4/20

Left: 53.000+/-0.007 $\chi^2$/NDF: 3839091.2/43

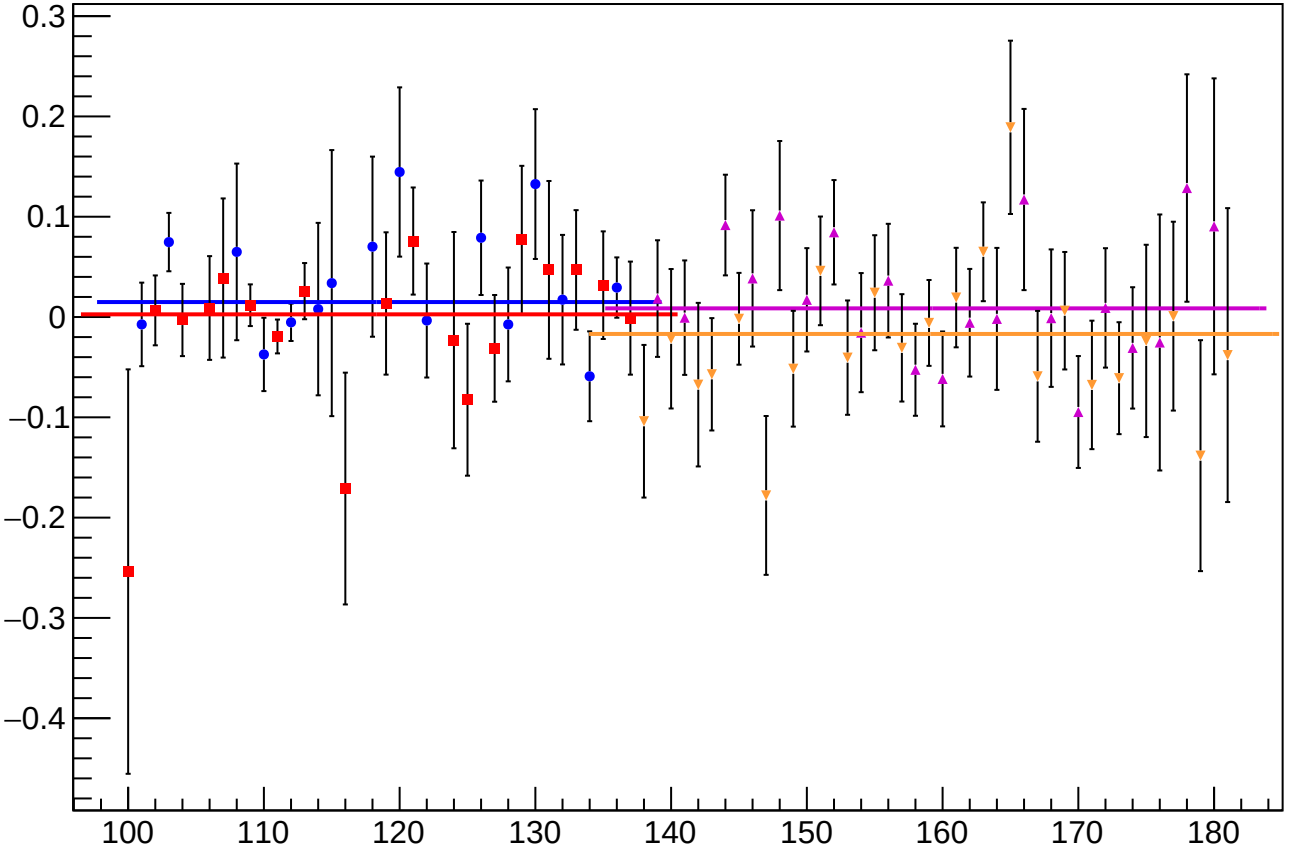
Right: 22.247+/-0.005 $\chi^2$/NDF: 6237010.7/34

In: 35.618+/-0.006 $\chi^2$/NDF:9889400.5/36

Out: 31.437+/-0.005 $\chi^2$/NDF:13981160.8/41

All: 33.318+/-0.004 $\chi^2$/NDF: 24149993.3/78

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.017+/-0.013 $\chi^2$/NDF:21.0/22

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.009+/-0.013 $\chi^2$/NDF:18.0/20

Left: -0.005+/-0.009 $\chi^2$/NDF: 40.9/43

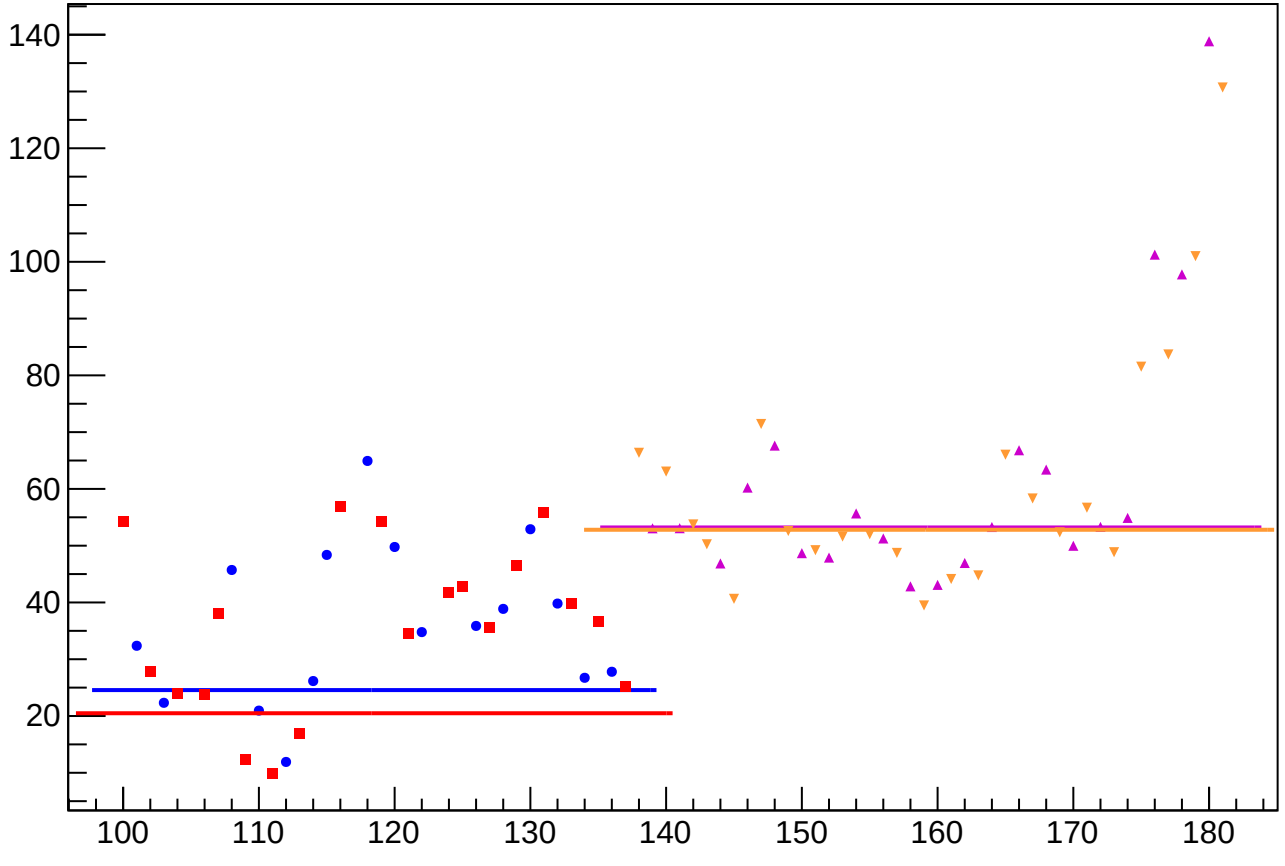
Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.012+/-0.008 $\chi^2$/NDF:35.9/36

Out: -0.004+/-0.008 $\chi^2$/NDF:34.9/41

All: 0.003+/-0.006 $\chi^2$/NDF: 73.0/78

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484434.5/15

Left Out: 52.804+/-0.009 $\chi^2$/NDF:2082607.9/22

Right Out: 20.487+/-0.007 $\chi^2$/NDF: 3583888.1/18

Left In: 53.211+/-0.009 $\chi^2$/NDF:1755518.4/20

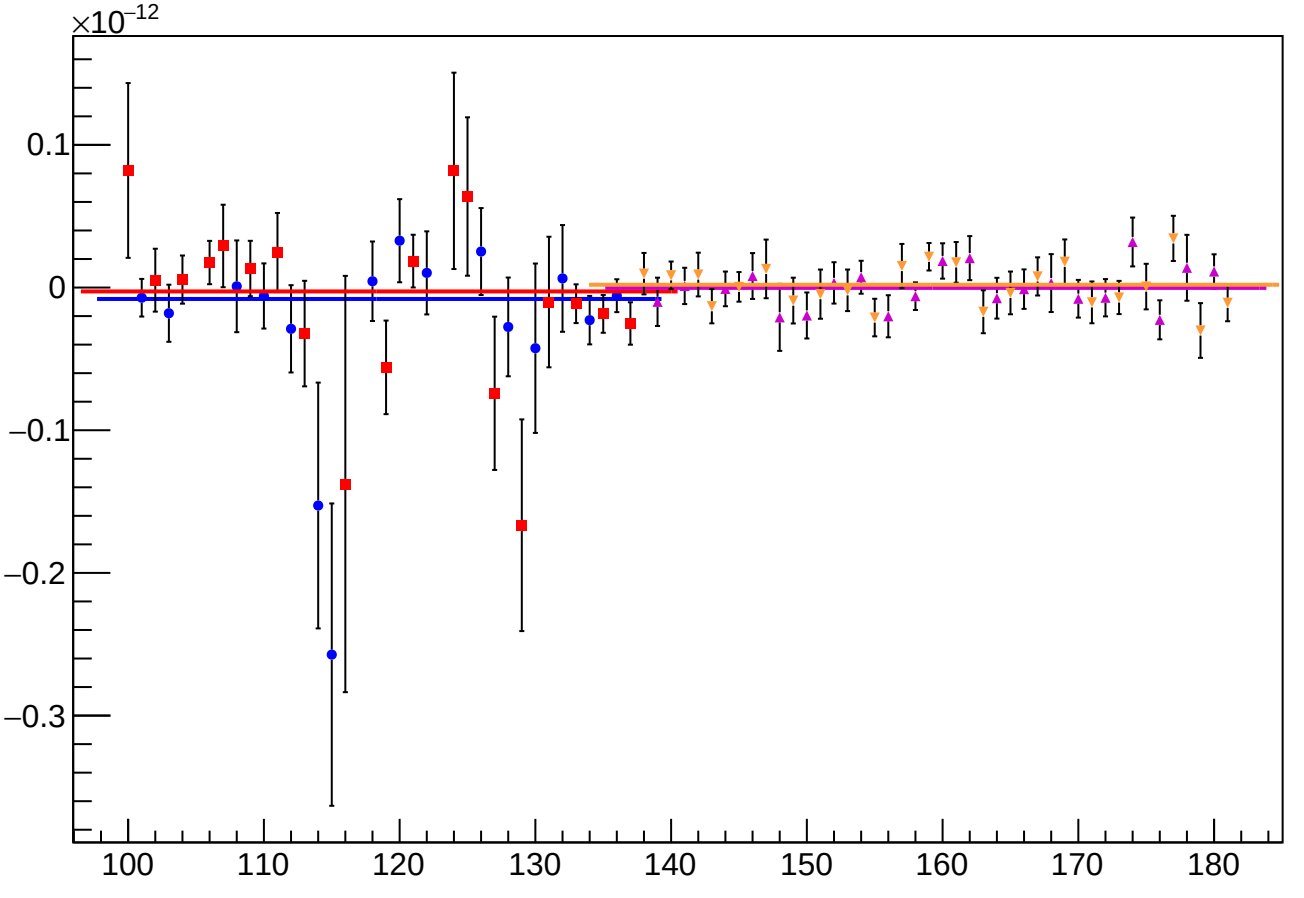
Left: 53.000+/-0.007 $\chi^2$/NDF: 3839091.2/43

Right: 22.247+/-0.005 $\chi^2$/NDF: 6237010.7/34

In: 35.618+/-0.006 $\chi^2$/NDF:9889400.5/36

Out: 31.437+/-0.005 $\chi^2$/NDF:13981160.8/41

All: 33.318+/-0.004 $\chi^2$/NDF: 24149993.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.0/20

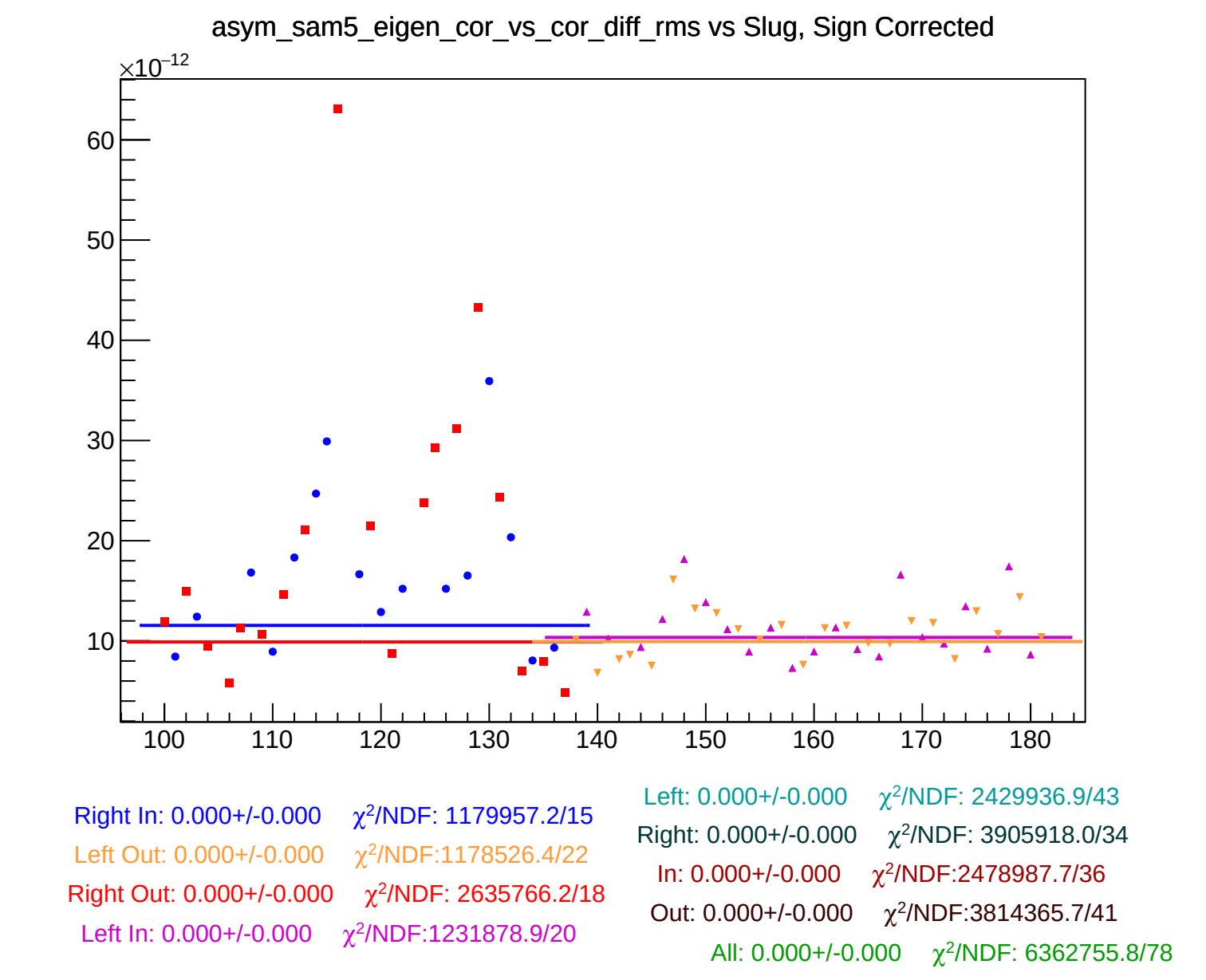
Left: 0.000+/-0.000 $\chi^2$/NDF: 43.2/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.1/34

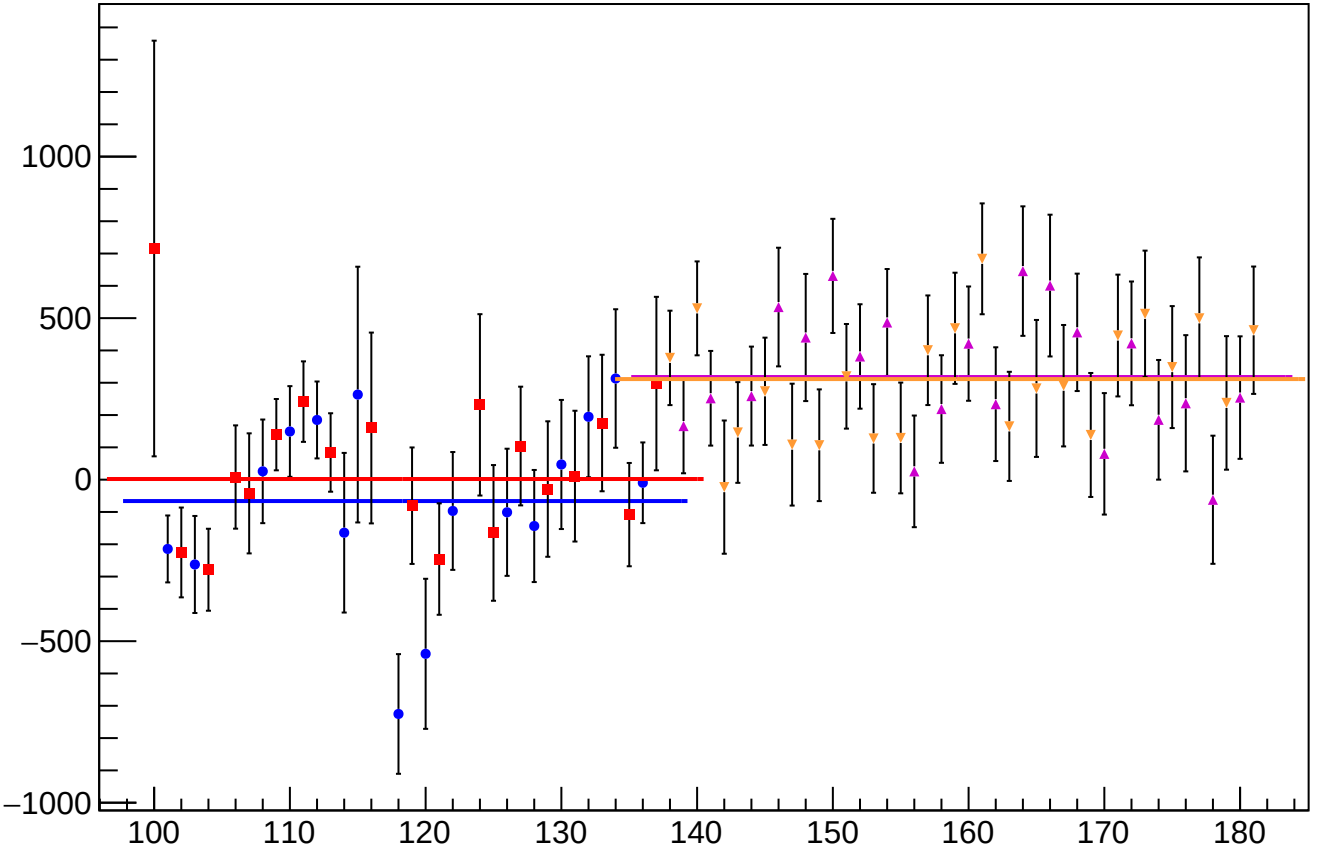
In: -0.000+/-0.000 $\chi^2$/NDF:33.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:51.6/41

All: -0.000+/-0.000 $\chi^2$/NDF: 86.2/78


asym_sam5_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1179957.2/15
Left Out: 0.000+/-0.000 χ²/NDF:1178526.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 2635766.2/18
Left In: 0.000+/-0.000 χ²/NDF:1231878.9/20
Left: 0.000+/-0.000 χ²/NDF: 2429936.9/43
Right: 0.000+/-0.000 χ²/NDF: 3905918.0/34
In: 0.000+/-0.000 χ²/NDF:2478987.7/36
Out: 0.000+/-0.000 χ²/NDF:3814365.7/41
All: 0.000+/-0.000 χ²/NDF: 6362755.8/78

# reg_asym_sam6_mean vs Slug, Sign Corrected




Right In: -66.230+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 311.377+/-36.787 $\chi^2$/NDF:21.9/22

Right Out: 2.017+/-38.866 $\chi^2$/NDF: 21.1/18

Left In: 317.720+/-38.679 $\chi^2$/NDF:22.6/20

Left: 314.389+/-26.656 $\chi^2$/NDF: 44.5/43

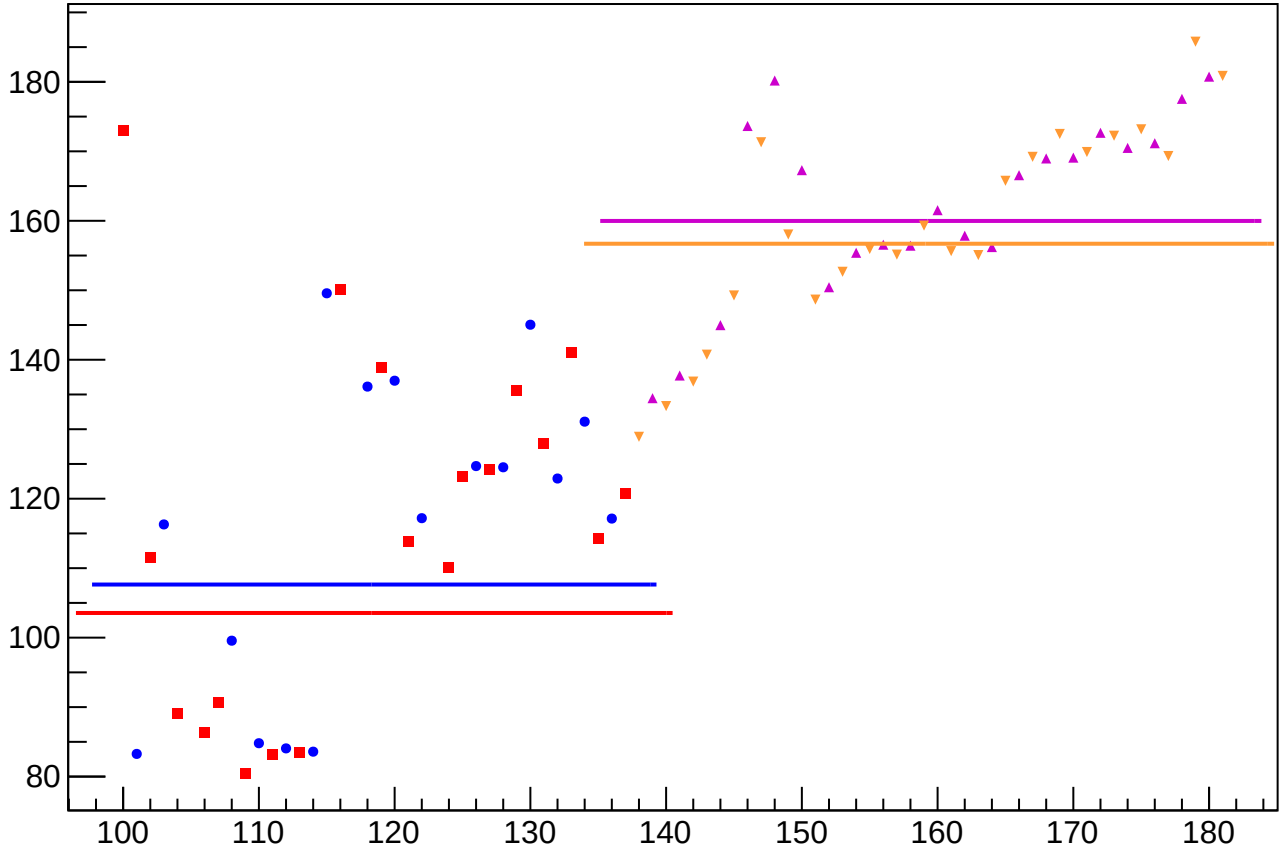
Right: -30.337+/-28.186 $\chi^2$/NDF: 57.0/34

In: 136.626+/-28.115 $\chi^2$/NDF:103.5/36

Out: 165.193+/-26.717 $\chi^2$/NDF:76.4/41

All: 151.637+/-19.367 $\chi^2$/NDF: 180.4/78

# reg_asym_sam6_rms vs Slug, Sign Corrected




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532821.7/15

Left Out: 156.699+/-0.026 $\chi^2$/NDF:328982.2/22

Right Out: 103.550+/-0.027 $\chi^2$/NDF: 617345.0/18

Left In: 159.980+/-0.027 $\chi^2$/NDF:245113.1/20

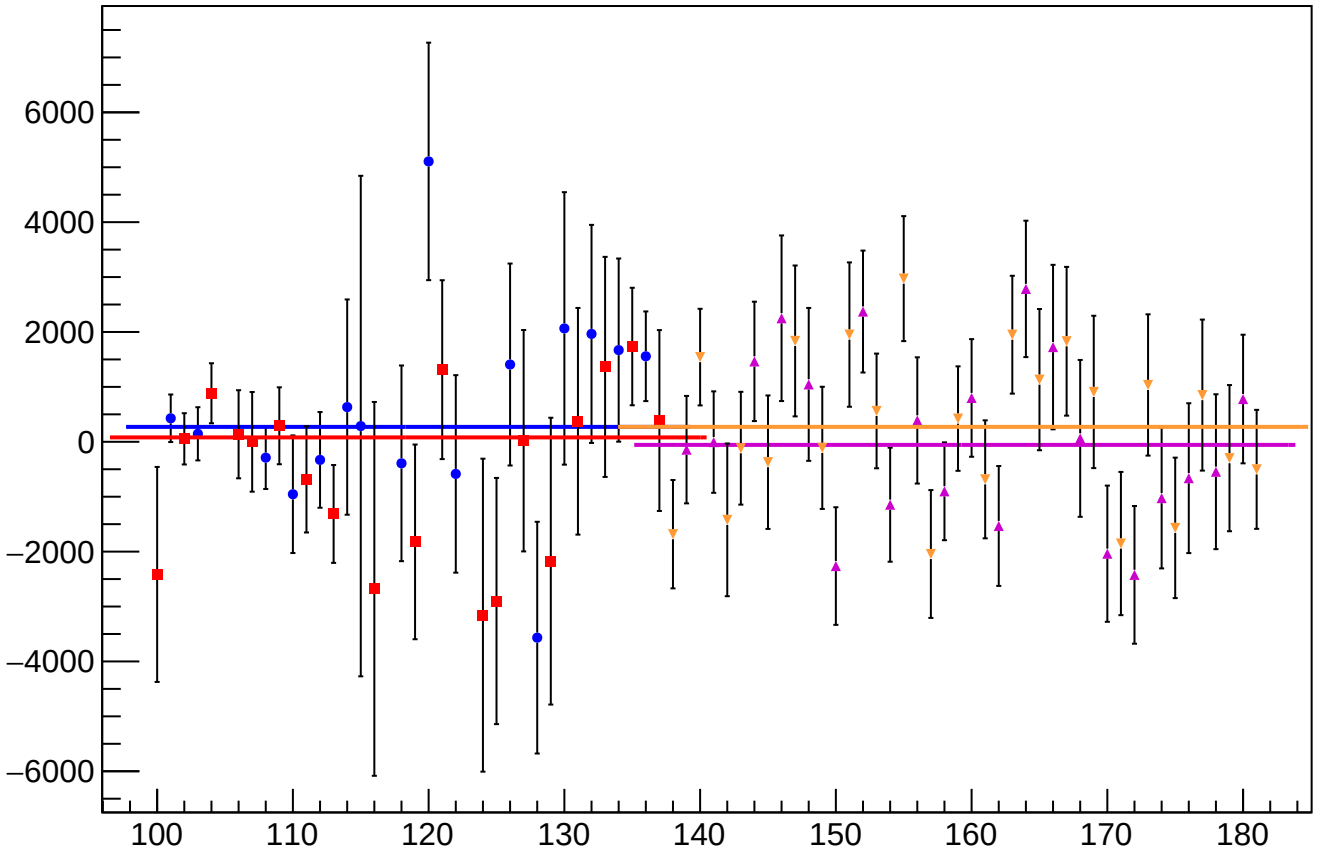
Left: 158.257+/-0.019 $\chi^2$/NDF: 581649.0/43

Right: 105.491+/-0.020 $\chi^2$/NDF: 1160688.9/34

In: 135.295+/-0.020 $\chi^2$/NDF:2504986.6/36

Out: 131.584+/-0.019 $\chi^2$/NDF:2919074.2/41

All: 133.345+/-0.014 $\chi^2$/NDF: 5442371.6/78




Right In: 271.505+/-230.663 $\chi^2$/NDF: 16.5/15

Left Out: 271.847+/-242.110 $\chi^2$/NDF:31.8/22

Right Out: 80.094+/-232.154 $\chi^2$/NDF: 16.0/18

Left In: -56.327+/-253.150 $\chi^2$/NDF:32.7/20

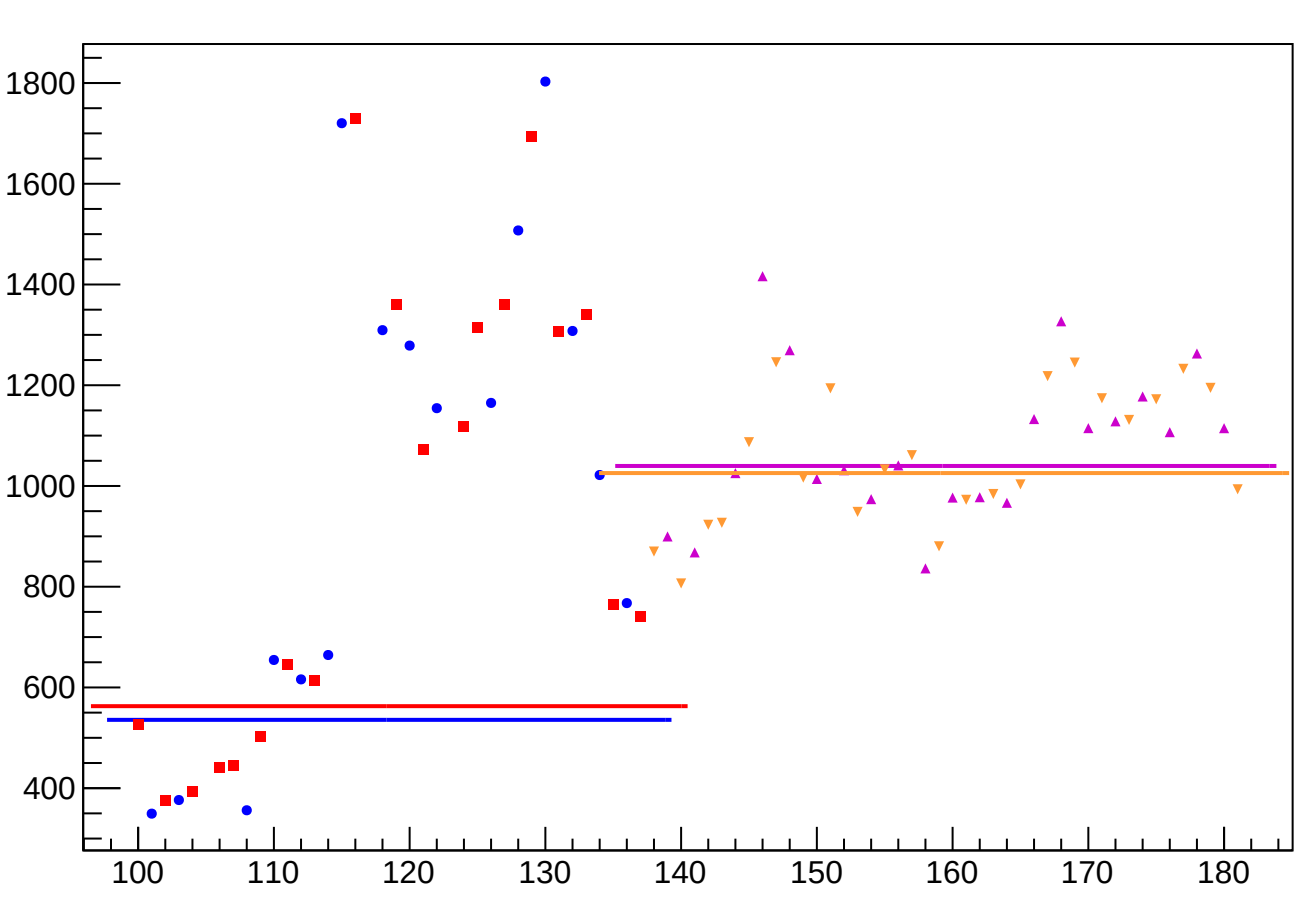
Left: 115.072+/-174.970 $\chi^2$/NDF: 65.4/43

Right: 176.417+/-163.628 $\chi^2$/NDF: 32.8/34

In: 122.793+/-170.500 $\chi^2$/NDF:50.1/36

Out: 171.947+/-167.567 $\chi^2$/NDF:48.2/41

All: 147.797+/-119.511 $\chi^2$/NDF: 98.3/78




Right In: 535.683+/-0.163 $\chi^2$/NDF: 3632390.5/15

Left Out: 1025.636+/-0.171 $\chi^2$/NDF:595911.7/22

Right Out: 562.845+/-0.164 $\chi^2$/NDF: 3111031.5/18

Left In: 1039.735+/-0.179 $\chi^2$/NDF:615649.0/20

Left: 1032.371+/-0.124 $\chi^2$/NDF: 1214800.8/43

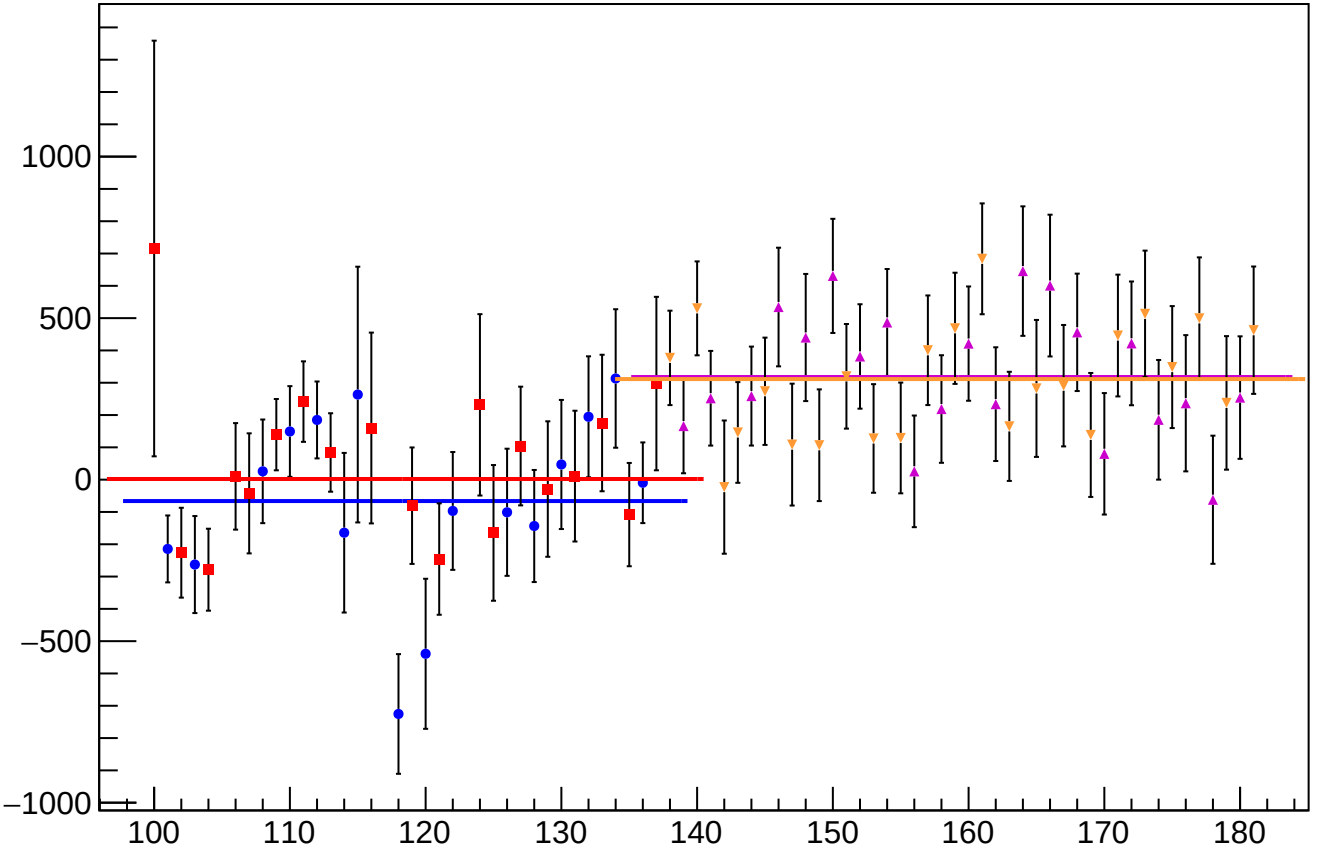
Right: 549.176+/-0.116 $\chi^2$/NDF: 6757198.8/34

In: 764.332+/-0.121 $\chi^2$/NDF:8580349.5/36

Out: 784.530+/-0.118 $\chi^2$/NDF:7514080.8/41

All: 774.606+/-0.085 $\chi^2$/NDF: 16108708.0/78

# cor_asym_sam6_mean vs Slug, Sign Corrected




Right In: -66.256+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 311.378+/-36.787 $\chi^2$/NDF:21.9/22

Right Out: 2.062+/-38.937 $\chi^2$/NDF: 21.1/18

Left In: 317.724+/-38.679 $\chi^2$/NDF:22.6/20

Left: 314.392+/-26.656 $\chi^2$/NDF: 44.5/43

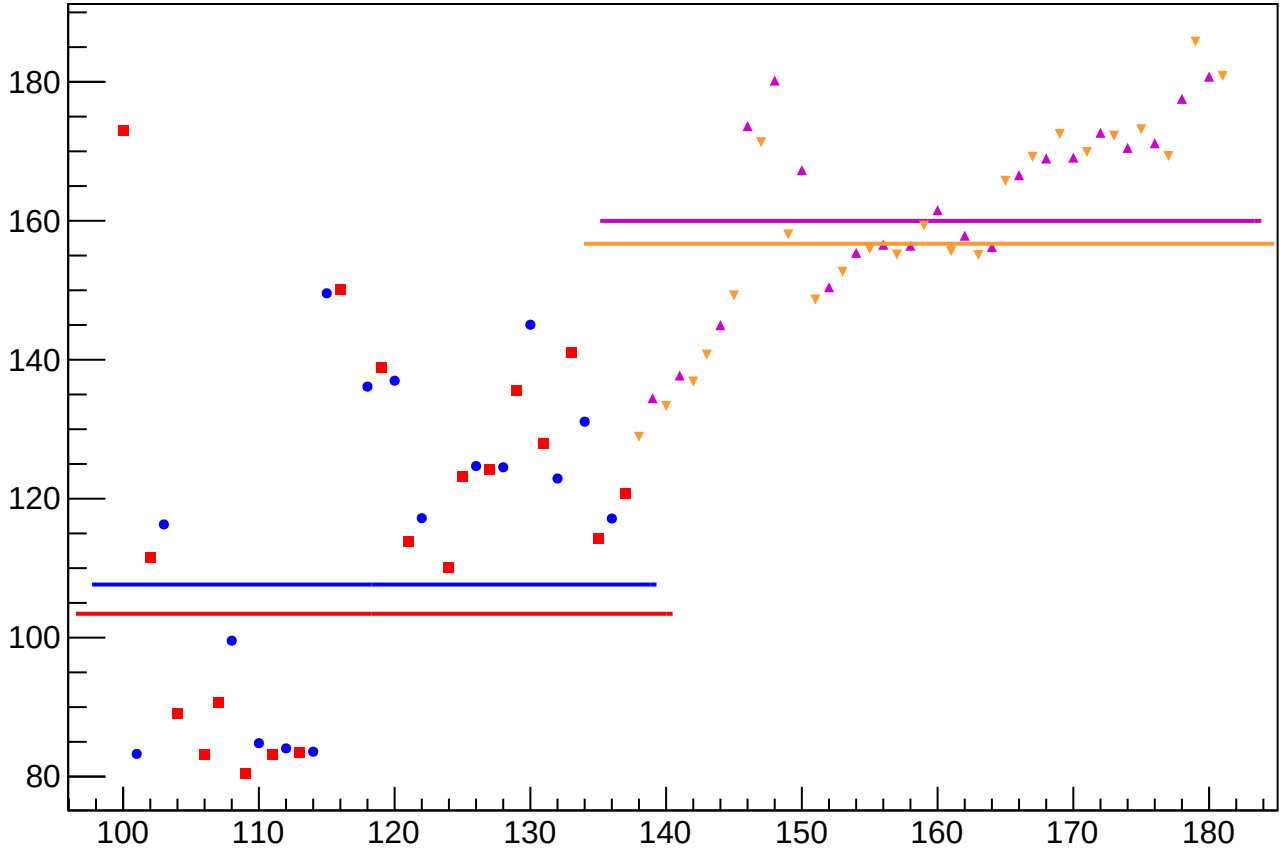
Right: -30.387+/-28.213 $\chi^2$/NDF: 57.0/34

In: 136.616+/-28.115 $\chi^2$/NDF:103.5/36

Out: 165.492+/-26.740 $\chi^2$/NDF:76.4/41

All: 151.777+/-19.376 $\chi^2$/NDF: 180.4/78

# cor_asym_sam6_rms vs Slug, Sign Corrected




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532822.8/15

Left Out: 156.699+/-0.026 $\chi^2$/NDF:328982.2/22

Right Out: 103.438+/-0.028 $\chi^2$/NDF: 624750.2/18

Left In: 159.980+/-0.027 $\chi^2$/NDF:245113.1/20

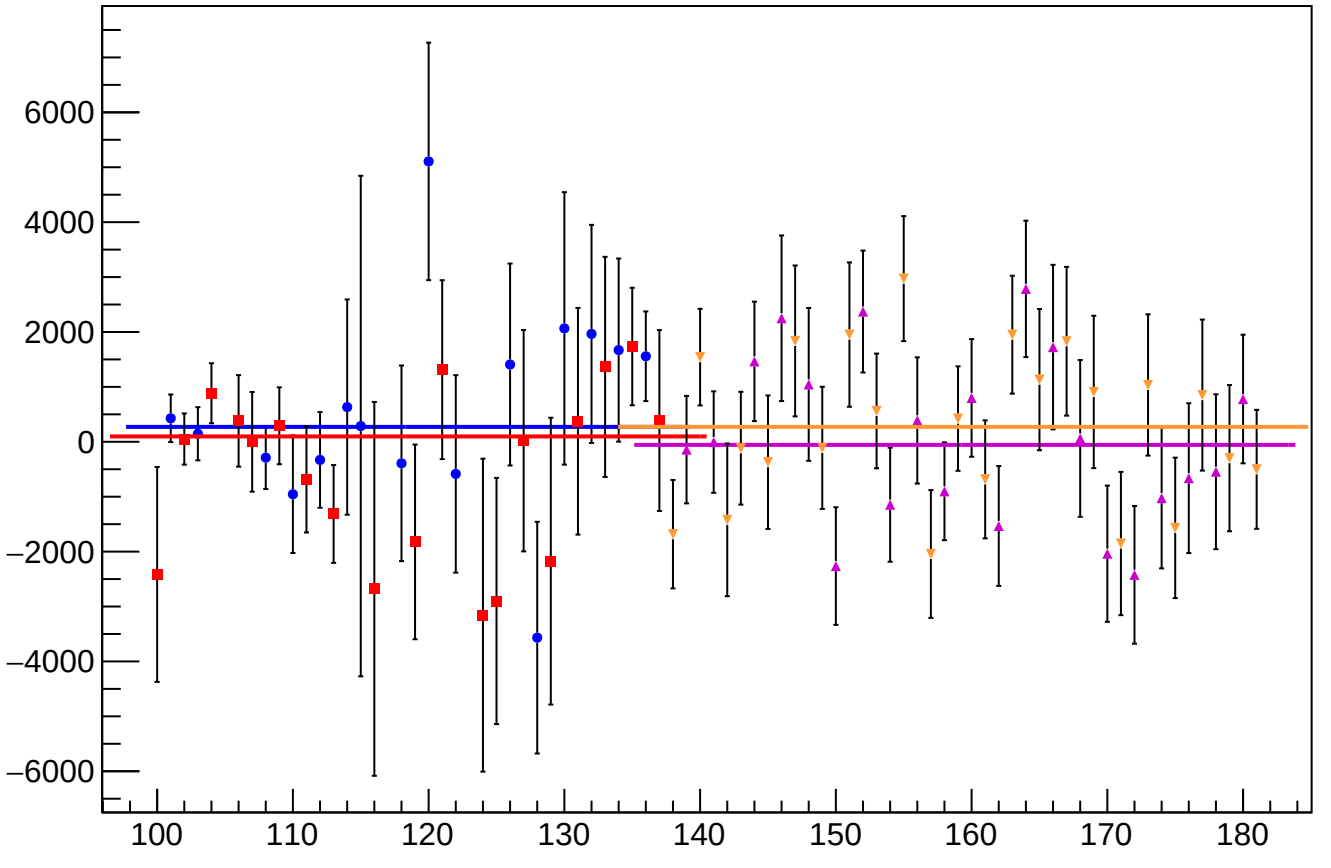
Left: 158.257+/-0.019 $\chi^2$/NDF: 581649.0/43

Right: 105.436+/-0.020 $\chi^2$/NDF: 1168660.2/34

In: 135.295+/-0.020 $\chi^2$/NDF:2504983.7/36

Out: 131.579+/-0.019 $\chi^2$/NDF:2931038.4/41

All: 133.344+/-0.014 $\chi^2$/NDF: 5454368.5/78




Right In: 271.645+/-230.655 $\chi^2$/NDF: 16.5/15

Left Out: 271.852+/-242.110 $\chi^2$/NDF:31.8/22

Right Out: 97.847+/-232.781 $\chi^2$/NDF: 16.1/18

Left In: -56.327+/-253.150 $\chi^2$/NDF:32.7/20

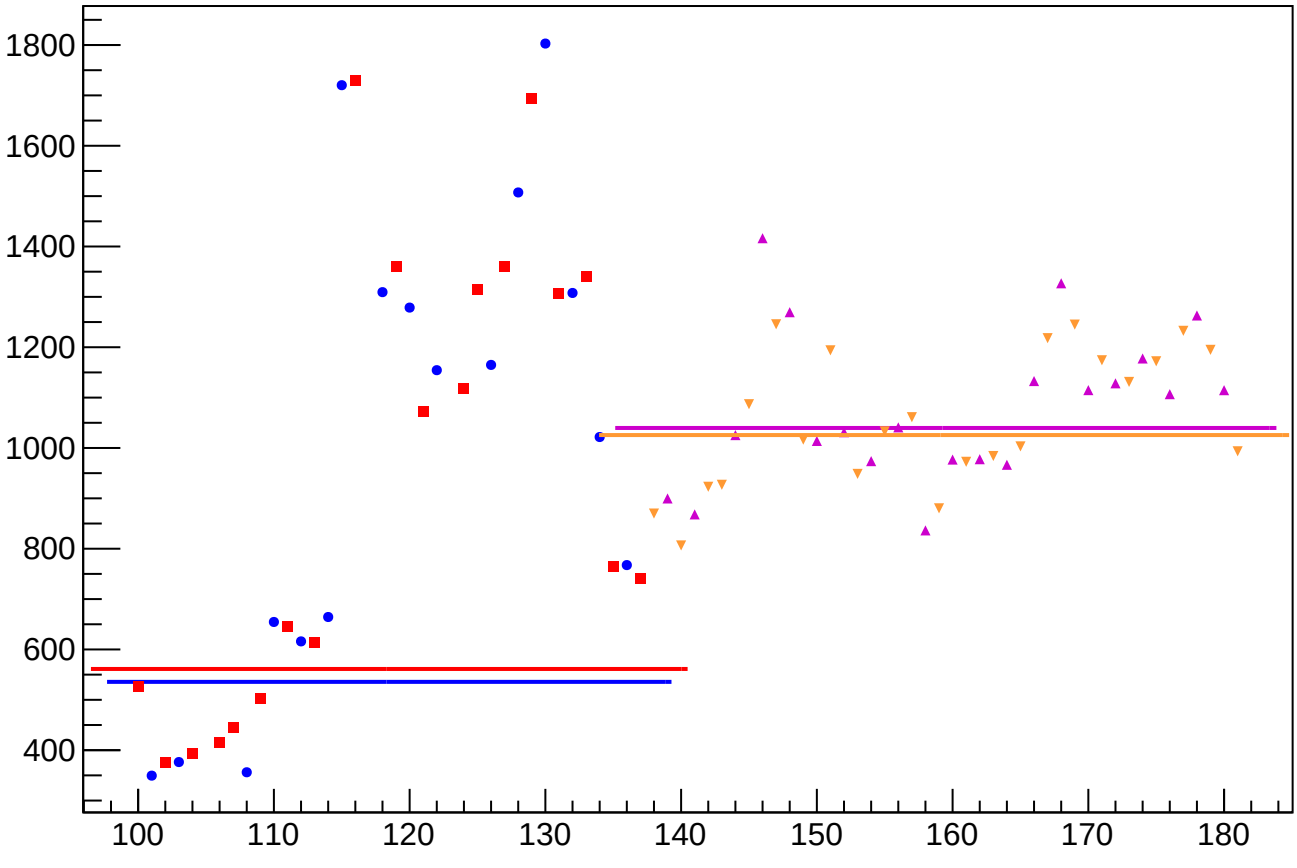
Left: 115.074+/-174.970 $\chi^2$/NDF: 65.4/43

Right: 185.543+/-163.844 $\chi^2$/NDF: 32.9/34

In: 122.875+/-170.497 $\chi^2$/NDF:50.1/36

Out: 181.432+/-167.802 $\chi^2$/NDF:48.2/41

All: 152.620+/-119.595 $\chi^2$/NDF: 98.4/78




Right In: 535.661+/-0.163 $\chi^2$/NDF: 3632591.0/15

Left Out: 1025.636+/-0.171 $\chi^2$/NDF:595911.1/22

Right Out: 561.270+/-0.165 $\chi^2$/NDF: 3130760.7/18

Left In: 1039.735+/-0.179 $\chi^2$/NDF:615646.4/20

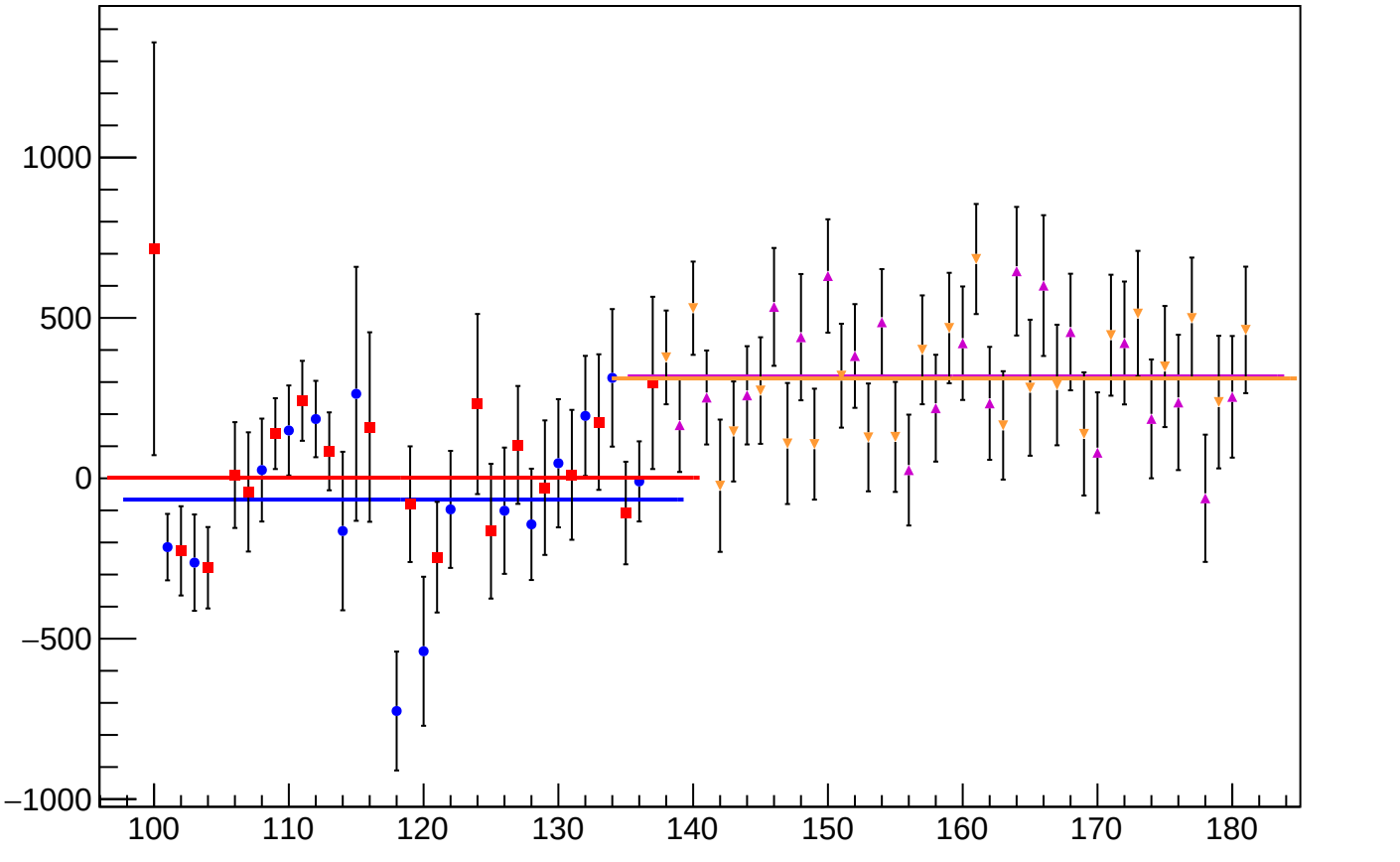
Left: 1032.371+/-0.124 $\chi^2$/NDF: 1214797.5/43

Right: 548.348+/-0.116 $\chi^2$/NDF: 6775564.7/34

In: 764.312+/-0.121 $\chi^2$/NDF:8581043.1/36

Out: 784.335+/-0.119 $\chi^2$/NDF:7549873.3/41

All: 774.483+/-0.085 $\chi^2$/NDF: 16144927.0/78




Right In: -66.256+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 311.378+/-36.787 $\chi^2$/NDF:21.9/22

Right Out: 2.062+/-38.937 $\chi^2$/NDF: 21.1/18

Left In: 317.724+/-38.679 $\chi^2$/NDF:22.6/20

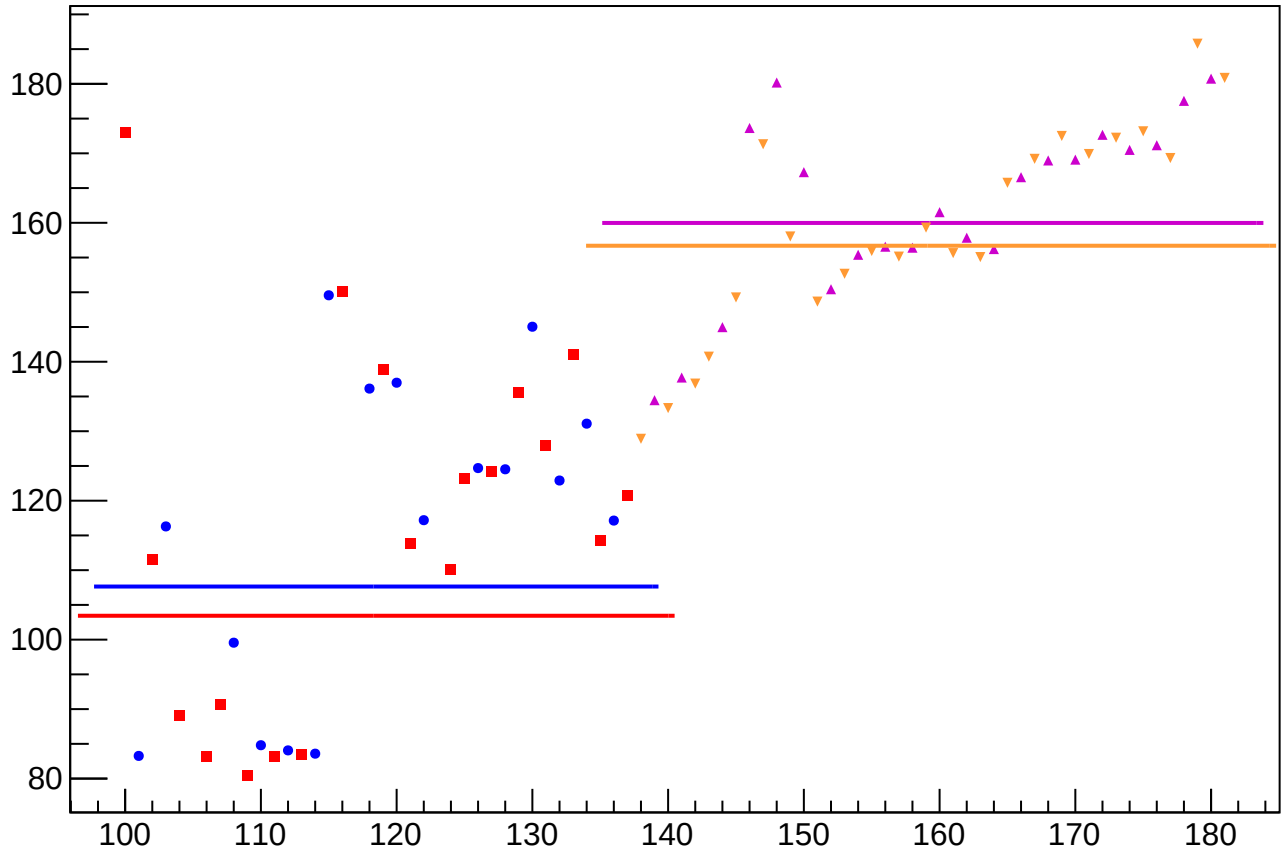
Left: 314.392+/-26.656 $\chi^2$/NDF: 44.5/43

Right: -30.387+/-28.213 $\chi^2$/NDF: 57.0/34

In: 136.616+/-28.115 $\chi^2$/NDF:103.5/36

Out: 165.492+/-26.740 $\chi^2$/NDF:76.4/41

All: 151.777+/-19.376 $\chi^2$/NDF: 180.4/78




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532822.8/15

Left Out: 156.699+/-0.026 $\chi^2$/NDF:328982.2/22

Right Out: 103.438+/-0.028 $\chi^2$/NDF: 624750.2/18

Left In: 159.980+/-0.027 $\chi^2$/NDF:245113.1/20

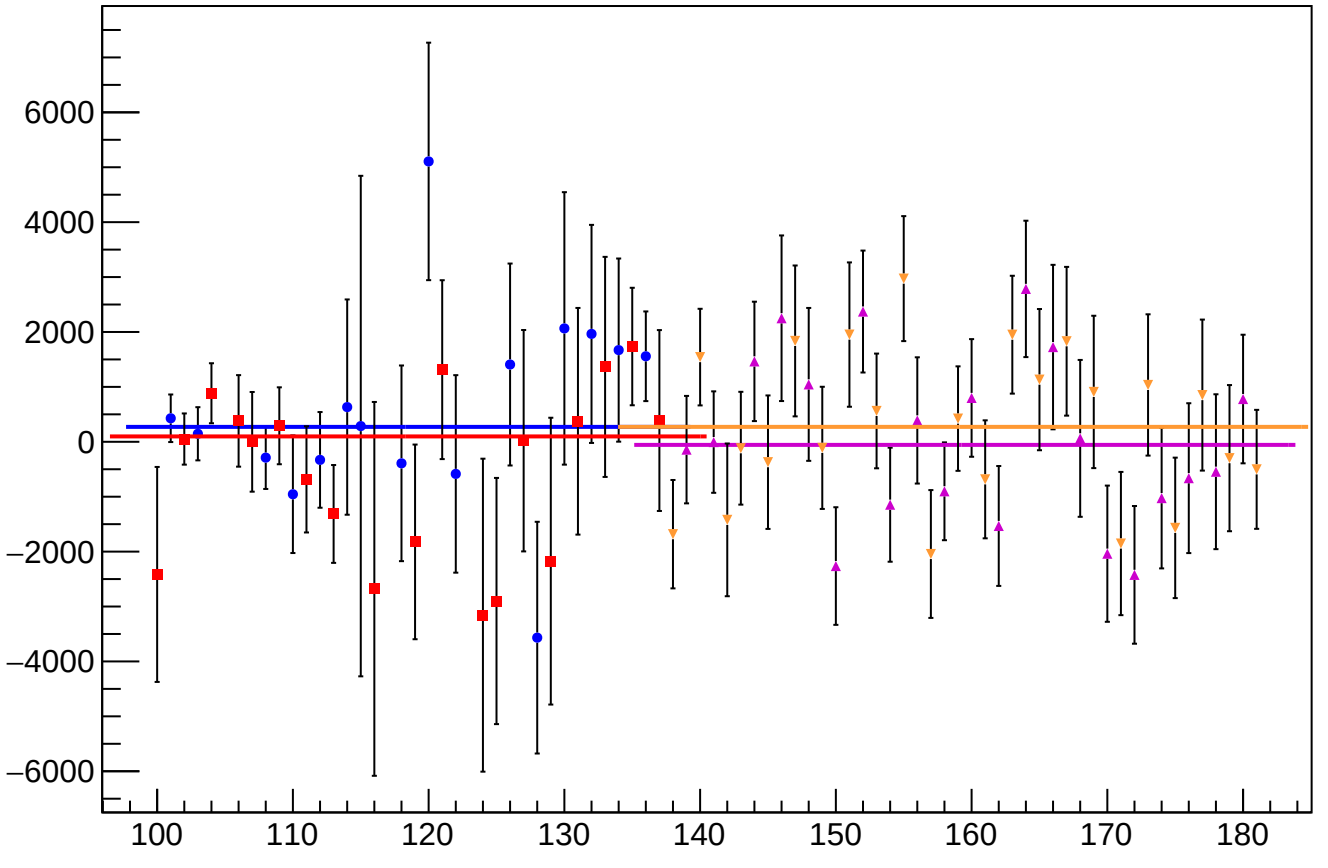
Left: 158.257+/-0.019 $\chi^2$/NDF: 581649.0/43

Right: 105.436+/-0.020 $\chi^2$/NDF: 1168660.2/34

In: 135.295+/-0.020 $\chi^2$/NDF:2504983.7/36

Out: 131.579+/-0.019 $\chi^2$/NDF:2931038.4/41

All: 133.344+/-0.014 $\chi^2$/NDF: 5454368.5/78




Right In: 271.645+/-230.655 $\chi^2$/NDF: 16.5/15

Left Out: 271.852+/-242.110 $\chi^2$/NDF:31.8/22

Right Out: 97.847+/-232.781 $\chi^2$/NDF: 16.1/18

Left In: -56.327+/-253.150 $\chi^2$/NDF:32.7/20

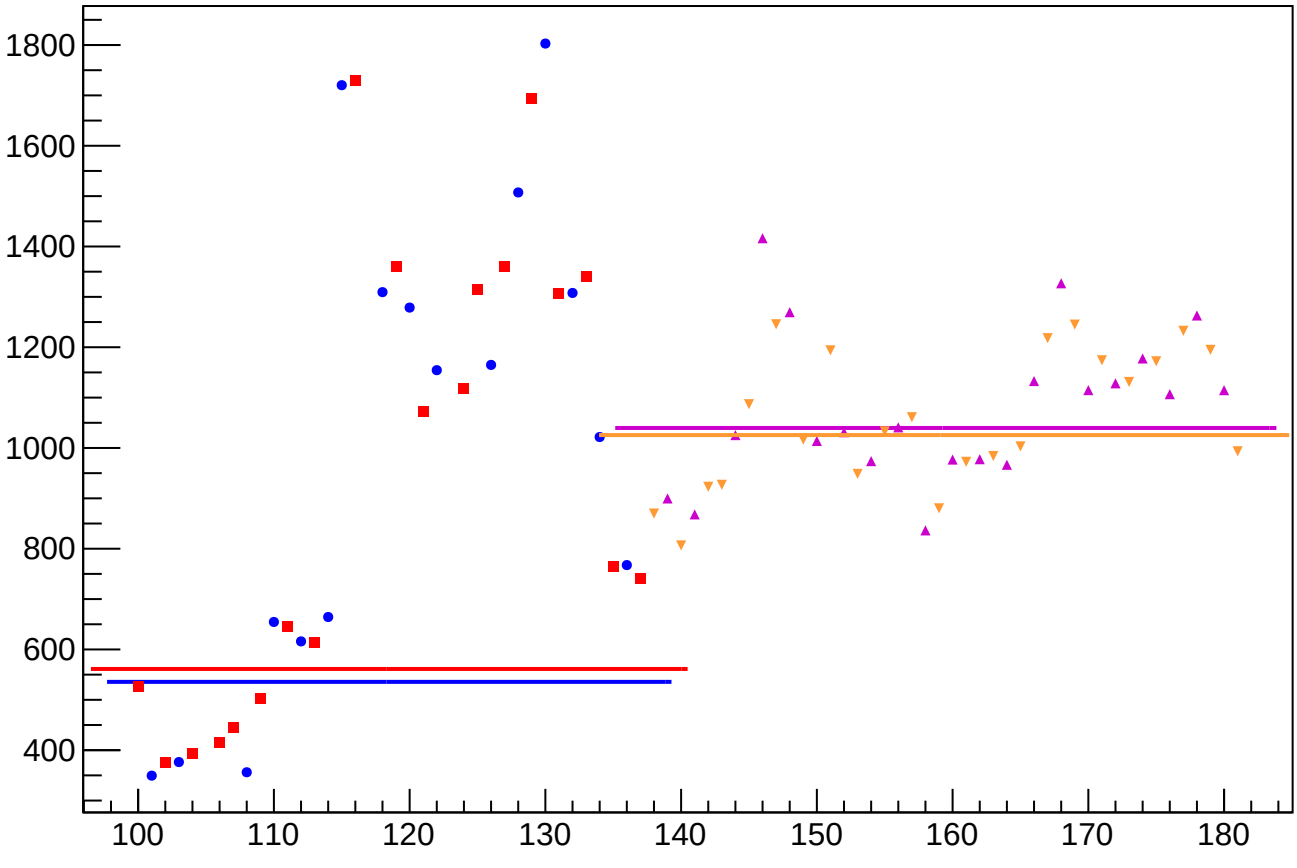
Left: 115.074+/-174.970 $\chi^2$/NDF: 65.4/43

Right: 185.543+/-163.844 $\chi^2$/NDF: 32.9/34

In: 122.875+/-170.497 $\chi^2$/NDF:50.1/36

Out: 181.432+/-167.802 $\chi^2$/NDF:48.2/41

All: 152.620+/-119.595 $\chi^2$/NDF: 98.4/78




Right In: 535.661+/-0.163 $\chi^2$/NDF: 3632591.0/15

Left Out: 1025.636+/-0.171 $\chi^2$/NDF:595911.1/22

Right Out: 561.270+/-0.165 $\chi^2$/NDF: 3130760.7/18

Left In: 1039.735+/-0.179 $\chi^2$/NDF:615646.4/20

Left: 1032.371+/-0.124 $\chi^2$/NDF: 1214797.5/43

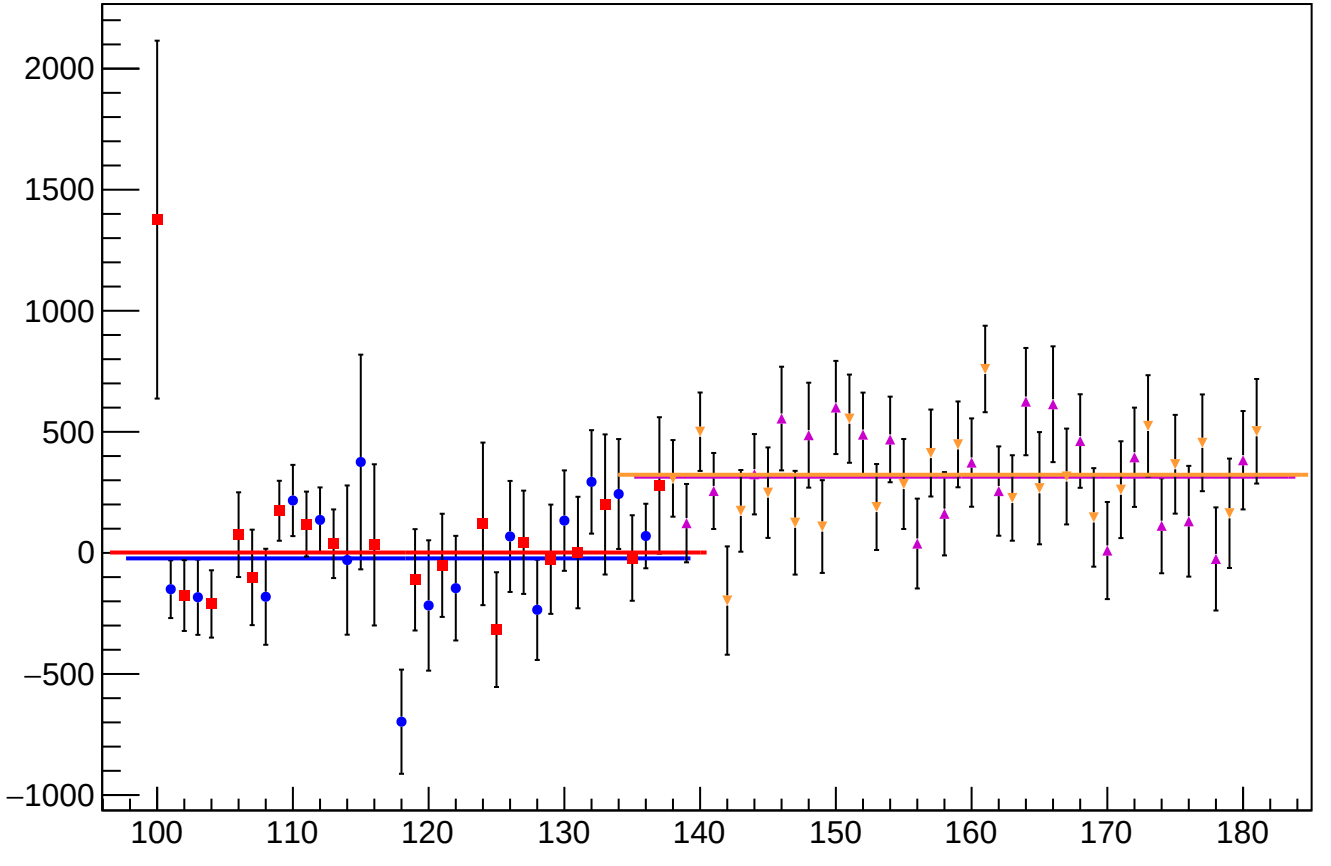
Right: 548.348+/-0.116 $\chi^2$/NDF: 6775564.7/34

In: 764.312+/-0.121 $\chi^2$/NDF:8581043.1/36

Out: 784.335+/-0.119 $\chi^2$/NDF:7549873.3/41

All: 774.483+/-0.085 $\chi^2$/NDF: 16144927.0/78

# dit_asym_sam6_mean vs Slug, Sign Corrected




Right In: -22.678+/-45.908 $\chi^2$/NDF: 24.2/15

Left Out: 322.743+/-39.706 $\chi^2$/NDF:22.4/22

Right Out: 1.600+/-43.563 $\chi^2$/NDF: 14.3/18

Left In: 314.722+/-41.615 $\chi^2$/NDF:21.6/20

Left: 318.920+/-28.728 $\chi^2$/NDF: 44.0/43

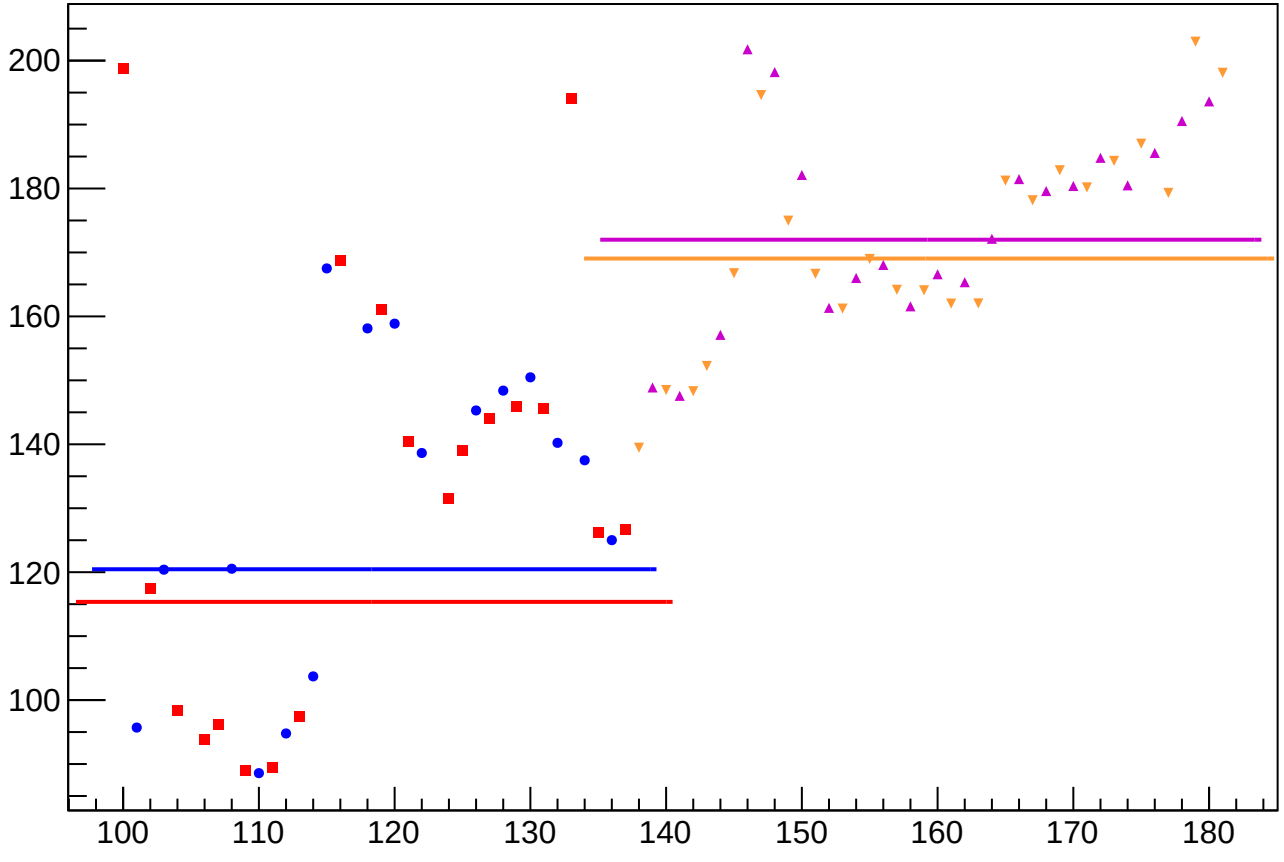
Right: -9.903+/-31.600 $\chi^2$/NDF: 38.6/34

In: 162.532+/-30.833 $\chi^2$/NDF:75.4/36

Out: 177.014+/-29.345 $\chi^2$/NDF:66.4/41

All: 170.131+/-21.257 $\chi^2$/NDF: 141.9/78

# dit_asym_sam6_rms vs Slug, Sign Corrected




Right In: 120.458+/-0.032 $\chi^2$/NDF: 530331.6/15

Left Out: 169.048+/-0.028 $\chi^2$/NDF:321323.2/22

Right Out: 115.357+/-0.031 $\chi^2$/NDF: 767236.0/18

Left In: 171.994+/-0.029 $\chi^2$/NDF:267378.2/20

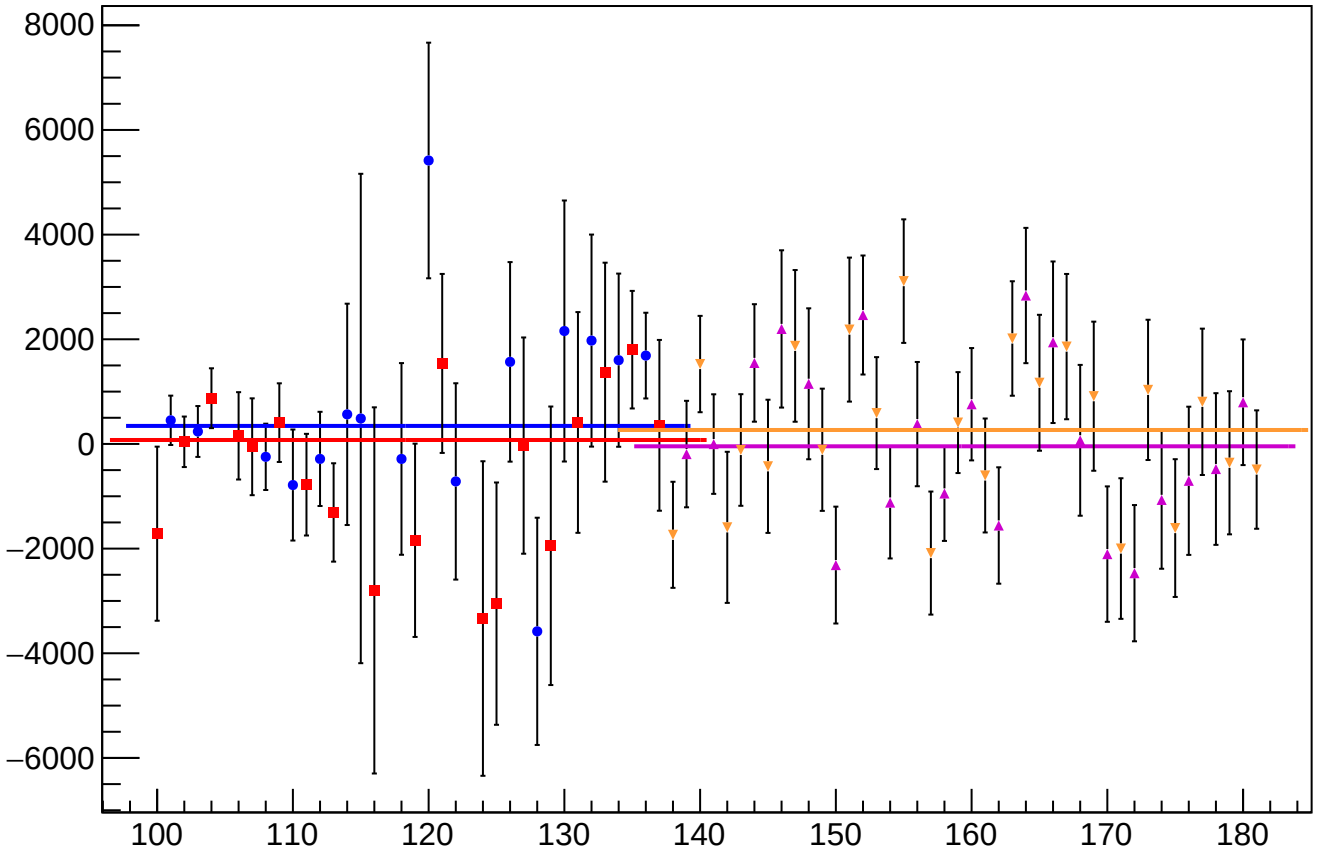
Left: 170.452+/-0.020 $\chi^2$/NDF: 593946.6/43

Right: 117.774+/-0.022 $\chi^2$/NDF: 1310562.3/34

In: 148.748+/-0.022 $\chi^2$/NDF:2181224.2/36

Out: 144.684+/-0.021 $\chi^2$/NDF:2748033.1/41

All: 146.616+/-0.015 $\chi^2$/NDF: 4947486.4/78




Right In: 344.437+/-241.532 $\chi^2$/NDF: 16.2/15

Left Out: 266.694+/-249.548 $\chi^2$/NDF:32.3/22

Right Out: 75.434+/-240.479 $\chi^2$/NDF: 15.3/18

Left In: -45.114+/-260.149 $\chi^2$/NDF:32.5/20

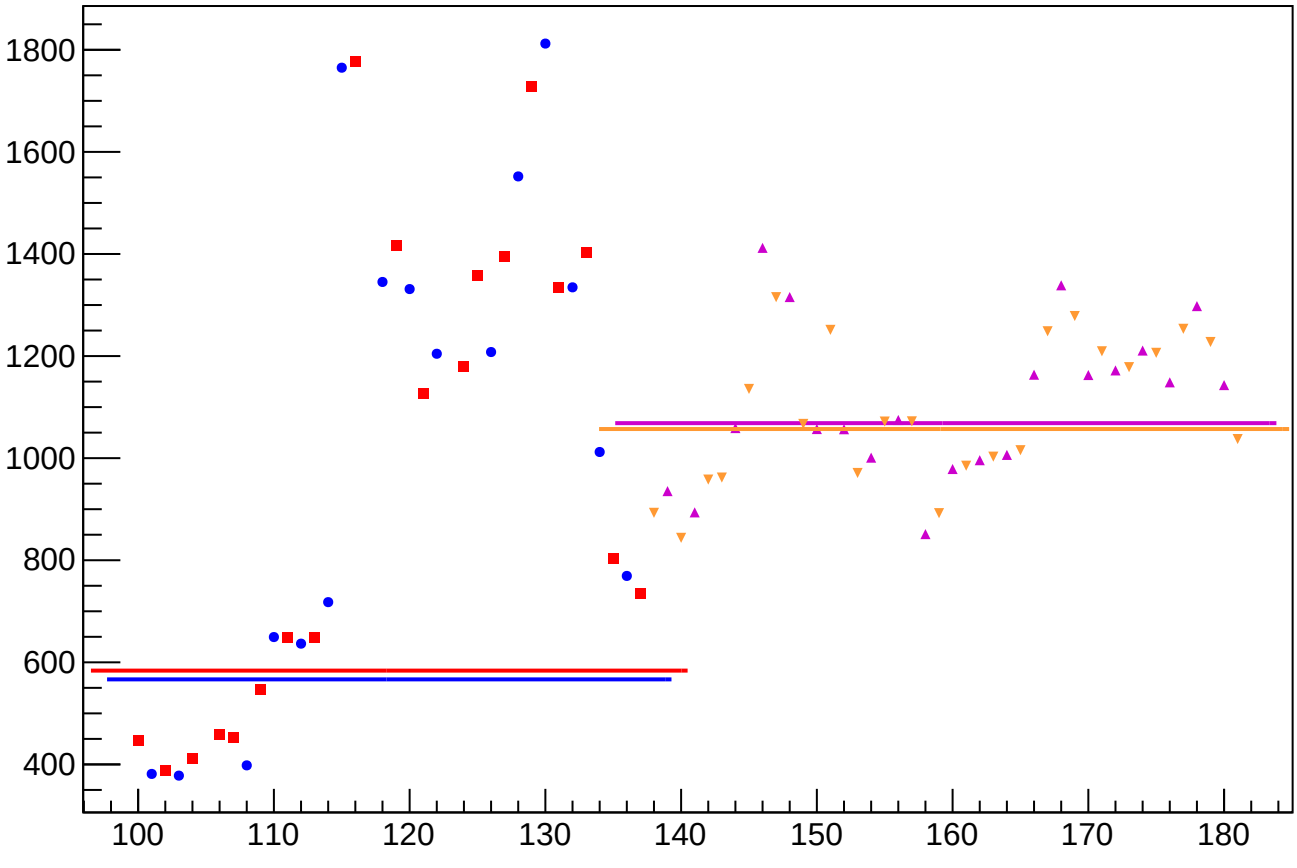
Left: 117.273+/-180.088 $\chi^2$/NDF: 65.5/43

Right: 209.348+/-170.415 $\chi^2$/NDF: 32.1/34

In: 164.098+/-177.005 $\chi^2$/NDF:50.0/36

Out: 167.526+/-173.162 $\chi^2$/NDF:47.8/41

All: 165.849+/-123.780 $\chi^2$/NDF: 97.8/78




Right In: 566.603+/-0.171 $\chi^2$/NDF: 3432440.2/15

Left Out: 1057.075+/-0.176 $\chi^2$/NDF:609158.4/22

Right Out: 583.794+/-0.170 $\chi^2$/NDF: 3107513.6/18

Left In: 1068.593+/-0.184 $\chi^2$/NDF:604188.4/20

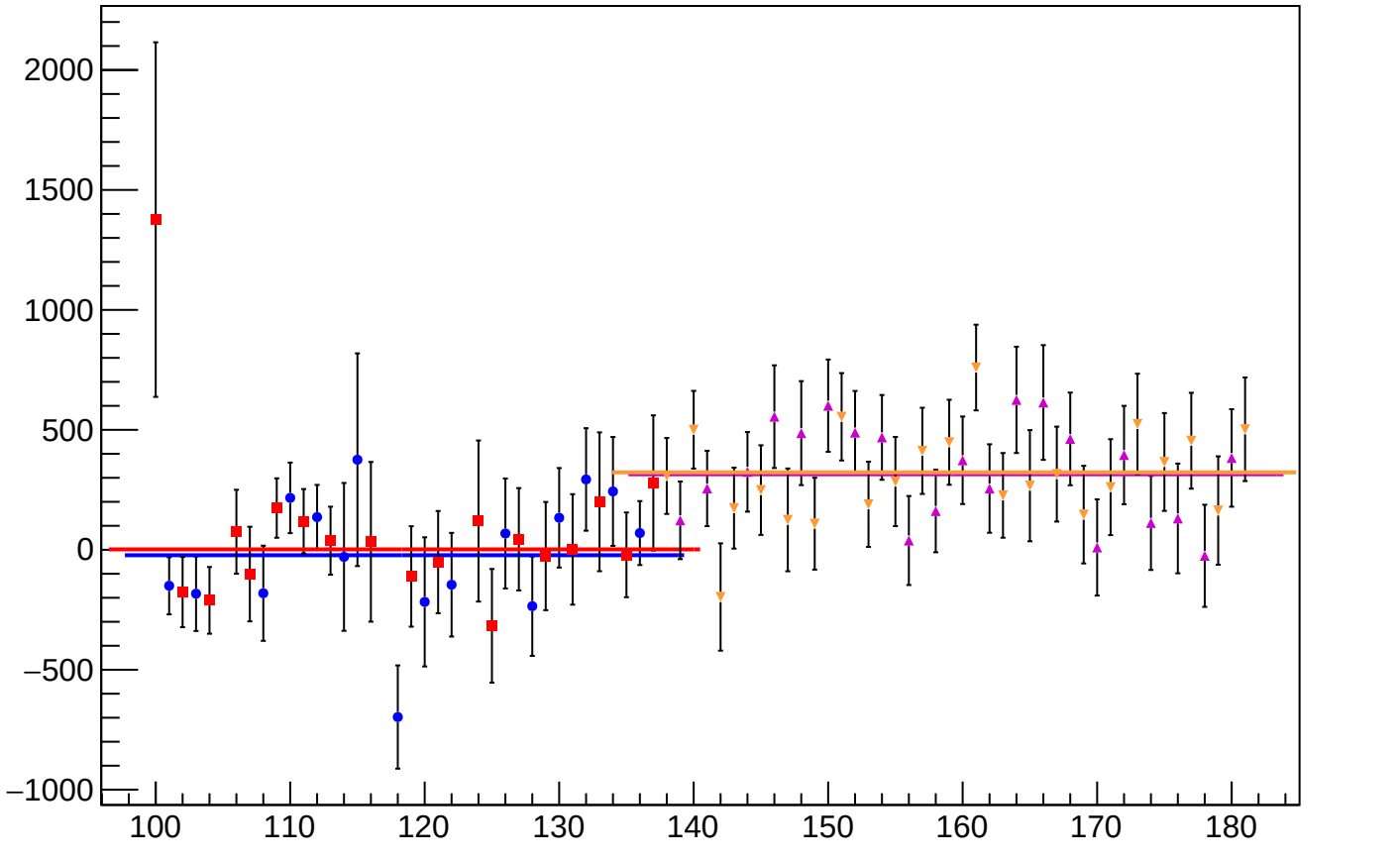
Left: 1062.595+/-0.127 $\chi^2$/NDF: 1215388.5/43

Right: 575.236+/-0.121 $\chi^2$/NDF: 6545041.6/34

In: 798.995+/-0.125 $\chi^2$/NDF:8036052.6/36

Out: 811.679+/-0.122 $\chi^2$/NDF:7446684.7/41

All: 805.476+/-0.088 $\chi^2$/NDF: 15487985.1/78




Right In: -22.680+/-45.908 $\chi^2$/NDF: 24.2/15

Left Out: 322.744+/-39.706 $\chi^2$/NDF:22.4/22

Right Out: 1.601+/-43.563 $\chi^2$/NDF: 14.3/18

Left In: 314.722+/-41.615 $\chi^2$/NDF:21.6/20

Left: 318.921+/-28.728 $\chi^2$/NDF: 44.0/43

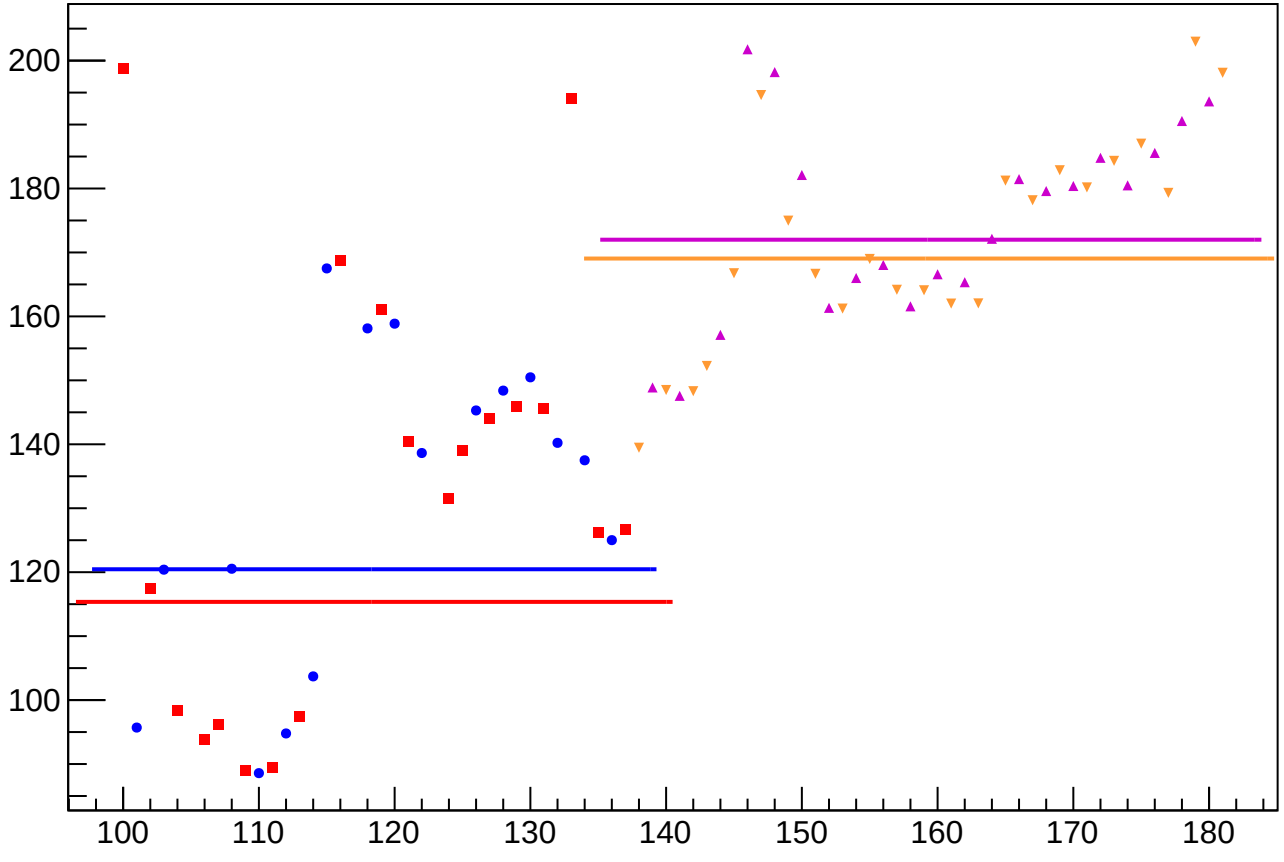
Right: -9.903+/-31.600 $\chi^2$/NDF: 38.6/34

In: 162.532+/-30.833 $\chi^2$/NDF:75.4/36

Out: 177.015+/-29.345 $\chi^2$/NDF:66.4/41

All: 170.131+/-21.257 $\chi^2$/NDF: 141.9/78

# eigen_dit_asym_sam6_rms vs Slug, Sign Corrected




Right In: 120.458+/-0.032 $\chi^2$/NDF: 530335.0/15

Left Out: 169.048+/-0.028 $\chi^2$/NDF:321323.0/22

Right Out: 115.357+/-0.031 $\chi^2$/NDF: 767234.8/18

Left In: 171.994+/-0.029 $\chi^2$/NDF:267377.8/20

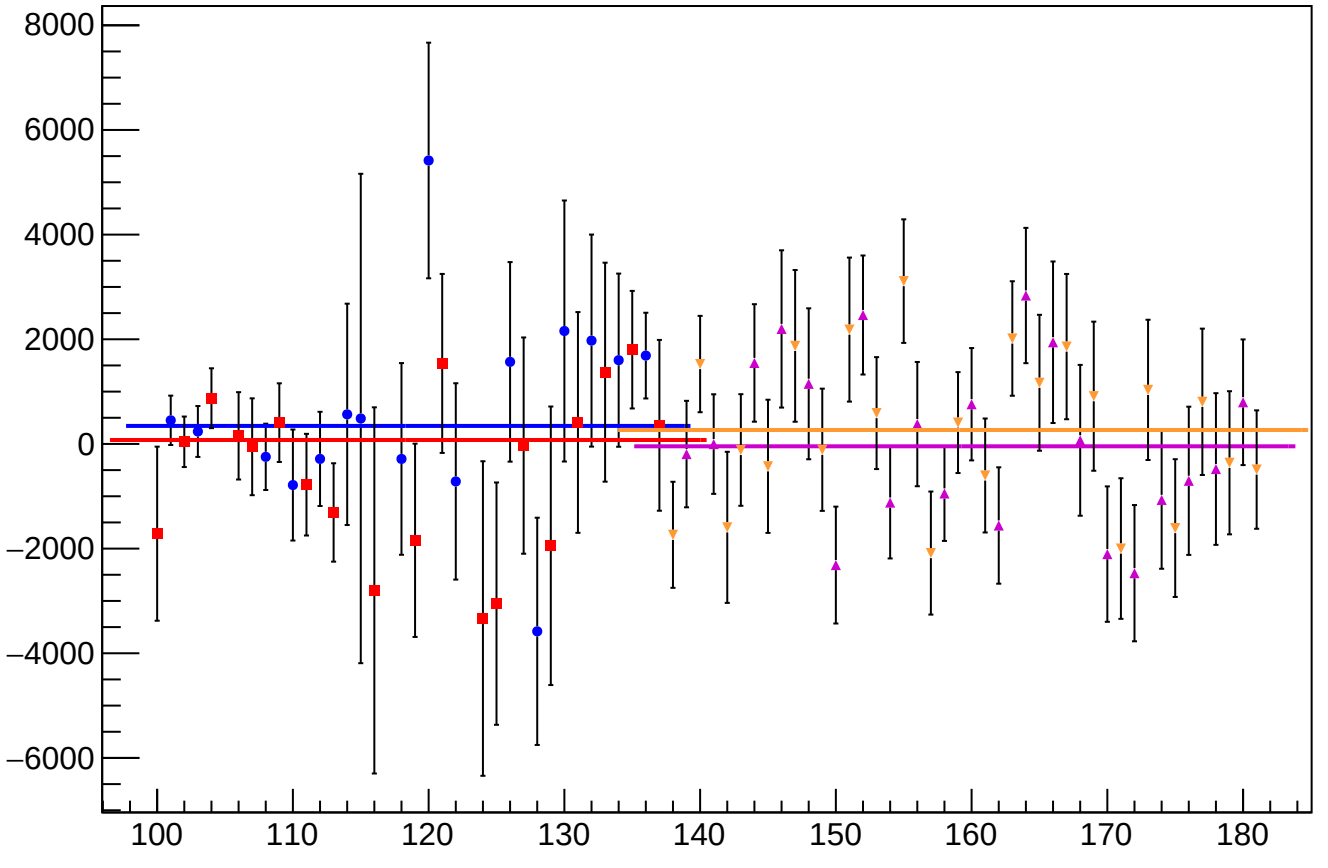
Left: 170.452+/-0.020 $\chi^2$/NDF: 593946.0/43

Right: 117.774+/-0.022 $\chi^2$/NDF: 1310564.2/34

In: 148.748+/-0.022 $\chi^2$/NDF:2181235.3/36

Out: 144.684+/-0.021 $\chi^2$/NDF:2748036.0/41

All: 146.615+/-0.015 $\chi^2$/NDF: 4947500.1/78




Right In: 344.436+/-241.531 $\chi^2$/NDF: 16.2/15

Left Out: 266.695+/-249.548 $\chi^2$/NDF:32.3/22

Right Out: 75.435+/-240.479 $\chi^2$/NDF: 15.3/18

Left In: -45.114+/-260.149 $\chi^2$/NDF:32.5/20

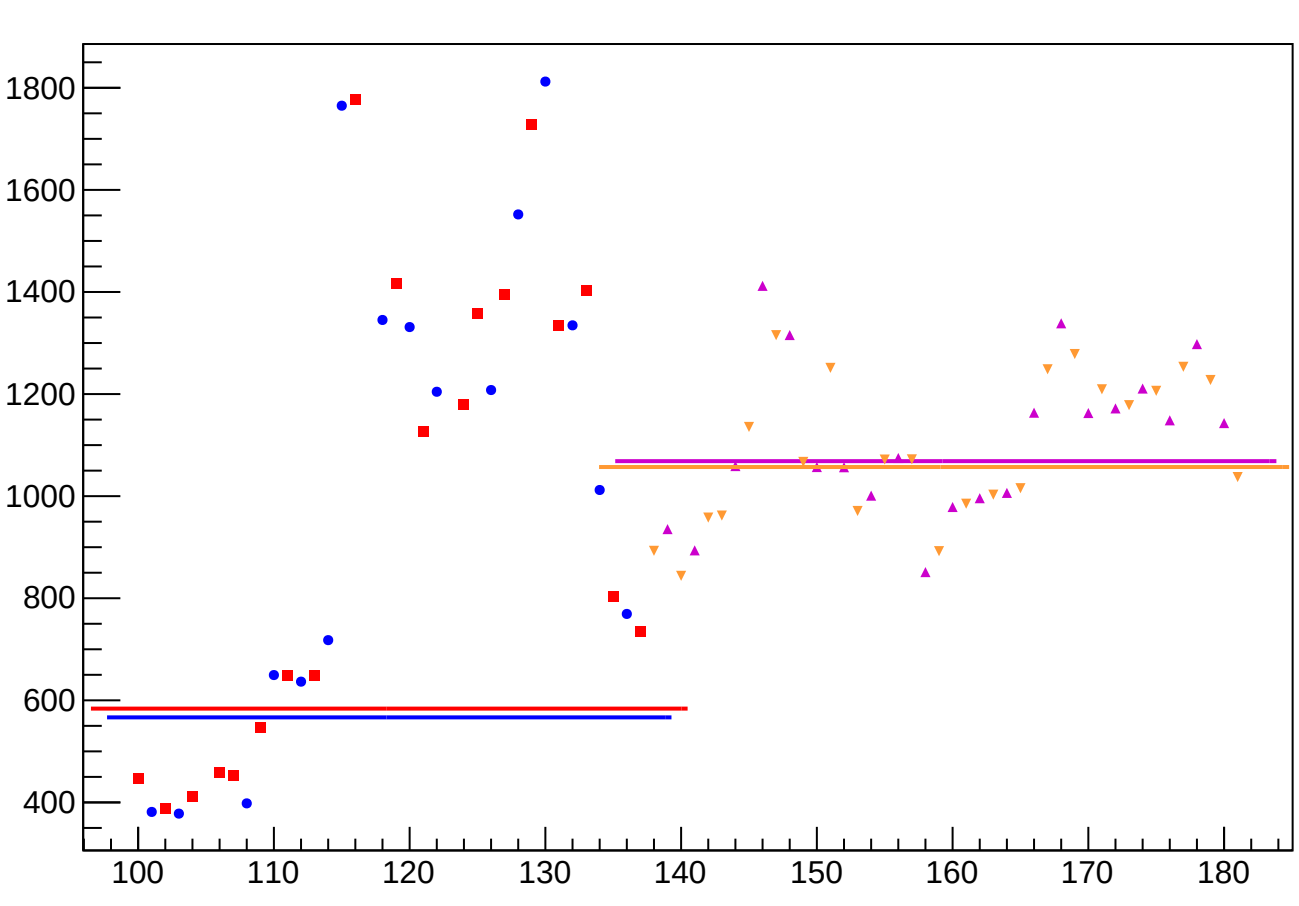
Left: 117.273+/-180.088 $\chi^2$/NDF: 65.5/43

Right: 209.348+/-170.415 $\chi^2$/NDF: 32.1/34

In: 164.097+/-177.005 $\chi^2$/NDF:50.0/36

Out: 167.527+/-173.162 $\chi^2$/NDF:47.8/41

All: 165.850+/-123.780 $\chi^2$/NDF: 97.8/78




Right In: 566.603+/-0.171 $\chi^2$/NDF: 3432444.7/15

Left Out: 1057.076+/-0.176 $\chi^2$/NDF:609163.5/22

Right Out: 583.794+/-0.170 $\chi^2$/NDF: 3107513.8/18

Left In: 1068.593+/-0.184 $\chi^2$/NDF:604192.3/20

Left: 1062.595+/-0.127 $\chi^2$/NDF: 1215397.4/43

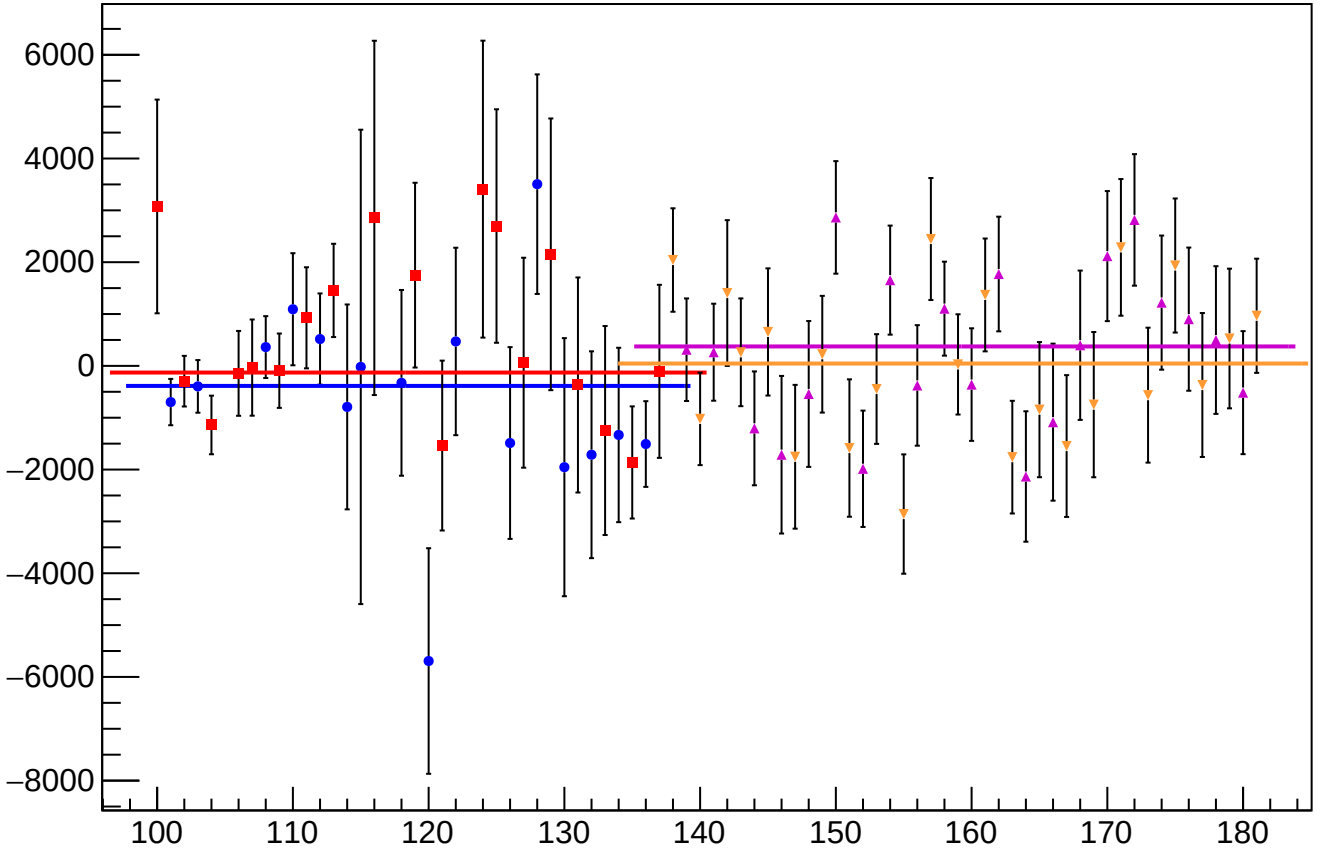
Right: 575.236+/-0.121 $\chi^2$/NDF: 6545046.5/34

In: 798.994+/-0.125 $\chi^2$/NDF:8036075.4/36

Out: 811.679+/-0.122 $\chi^2$/NDF:7446702.3/41

All: 805.476+/-0.088 $\chi^2$/NDF: 15488025.8/78

# asym_sam6_mean vs Slug, Sign Corrected




Right In: -386.522+/-237.525 $\chi^2$/NDF: 17.9/15

Left Out: 45.322+/-245.015 $\chi^2$/NDF:33.2/22

Right Out: -128.583+/-238.241 $\chi^2$/NDF: 19.4/18

Left In: 374.712+/-256.220 $\chi^2$/NDF:30.4/20

Left: 202.658+/-177.081 $\chi^2$/NDF: 64.4/43

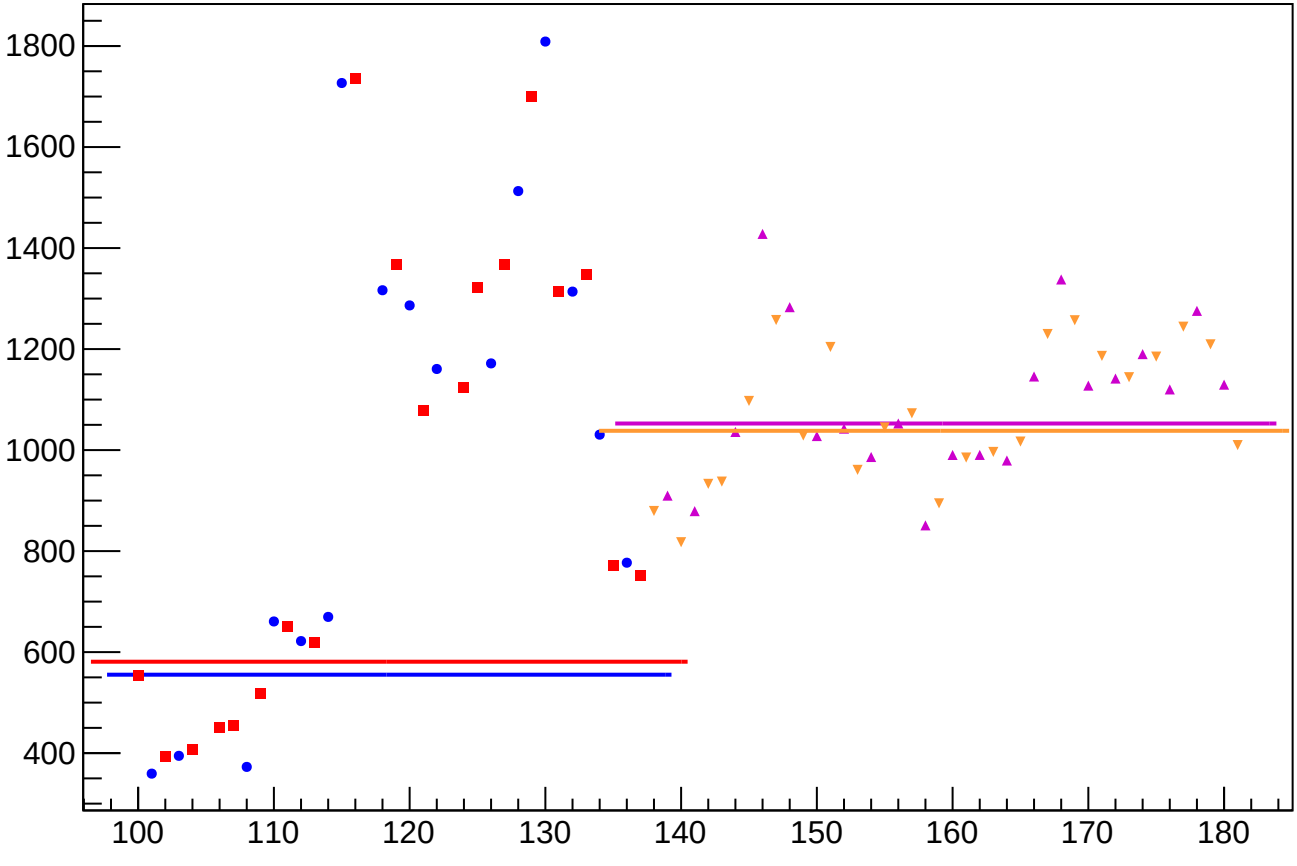
Right: -257.941+/-168.208 $\chi^2$/NDF: 37.9/34

In: -34.687+/-174.190 $\chi^2$/NDF:53.1/36

Out: -44.068+/-170.806 $\chi^2$/NDF:52.8/41

All: -39.470+/-121.957 $\chi^2$/NDF: 105.9/78

# asym_sam6_rms vs Slug, Sign Corrected




Right In: 555.292+/-0.168 $\chi^2$/NDF: 3482531.0/15

Left Out: 1038.196+/-0.173 $\chi^2$/NDF:584198.9/22

Right Out: 580.996+/-0.168 $\chi^2$/NDF: 2983560.8/18

Left In: 1052.634+/-0.181 $\chi^2$/NDF:602138.7/20

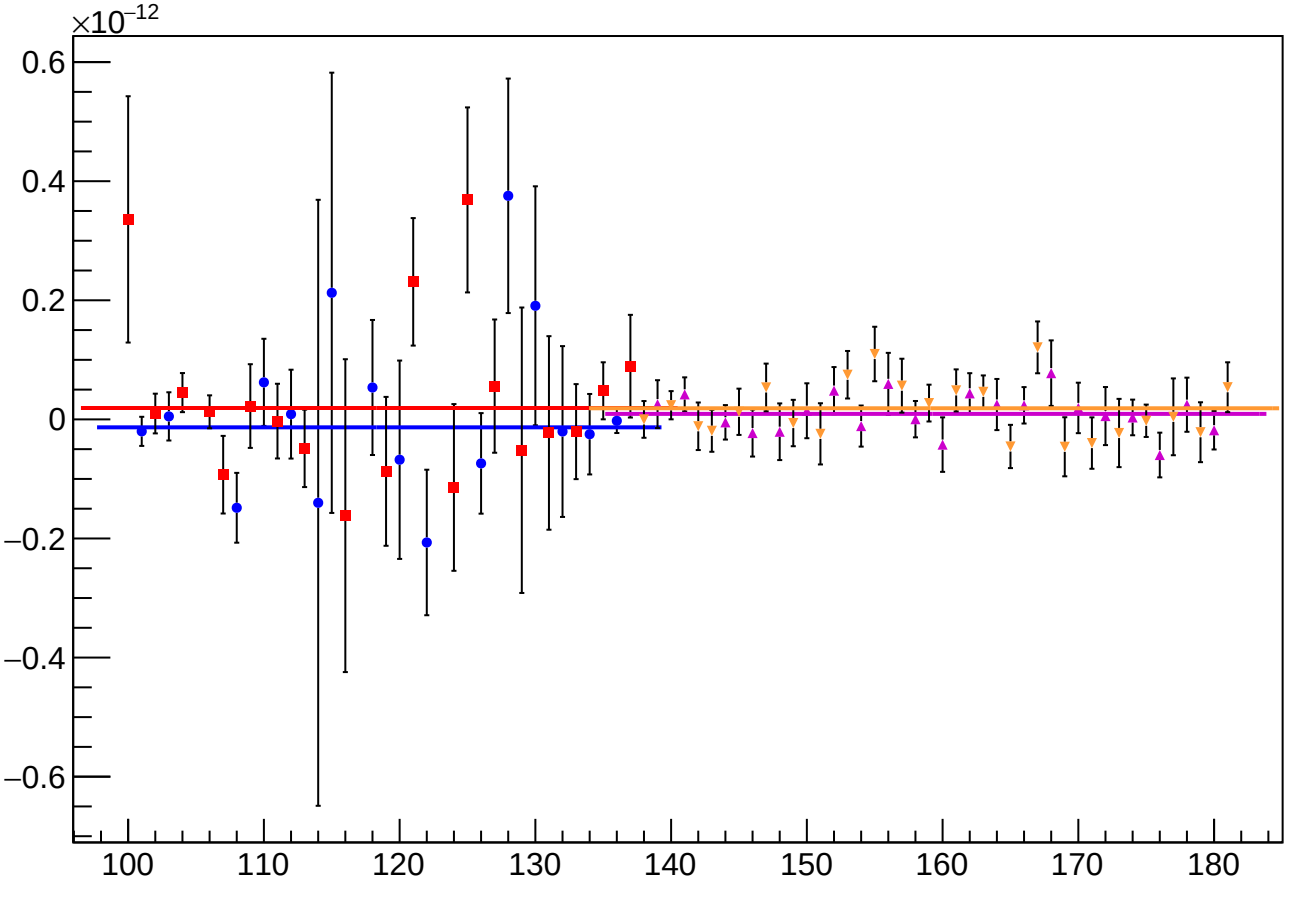
Left: 1045.093+/-0.125 $\chi^2$/NDF: 1189654.6/43

Right: 568.105+/-0.119 $\chi^2$/NDF: 6477767.0/34

In: 785.158+/-0.123 $\chi^2$/NDF:8137356.9/36

Out: 803.188+/-0.121 $\chi^2$/NDF:7147352.6/41

All: 794.350+/-0.086 $\chi^2$/NDF: 15295633.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:27.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.7/20

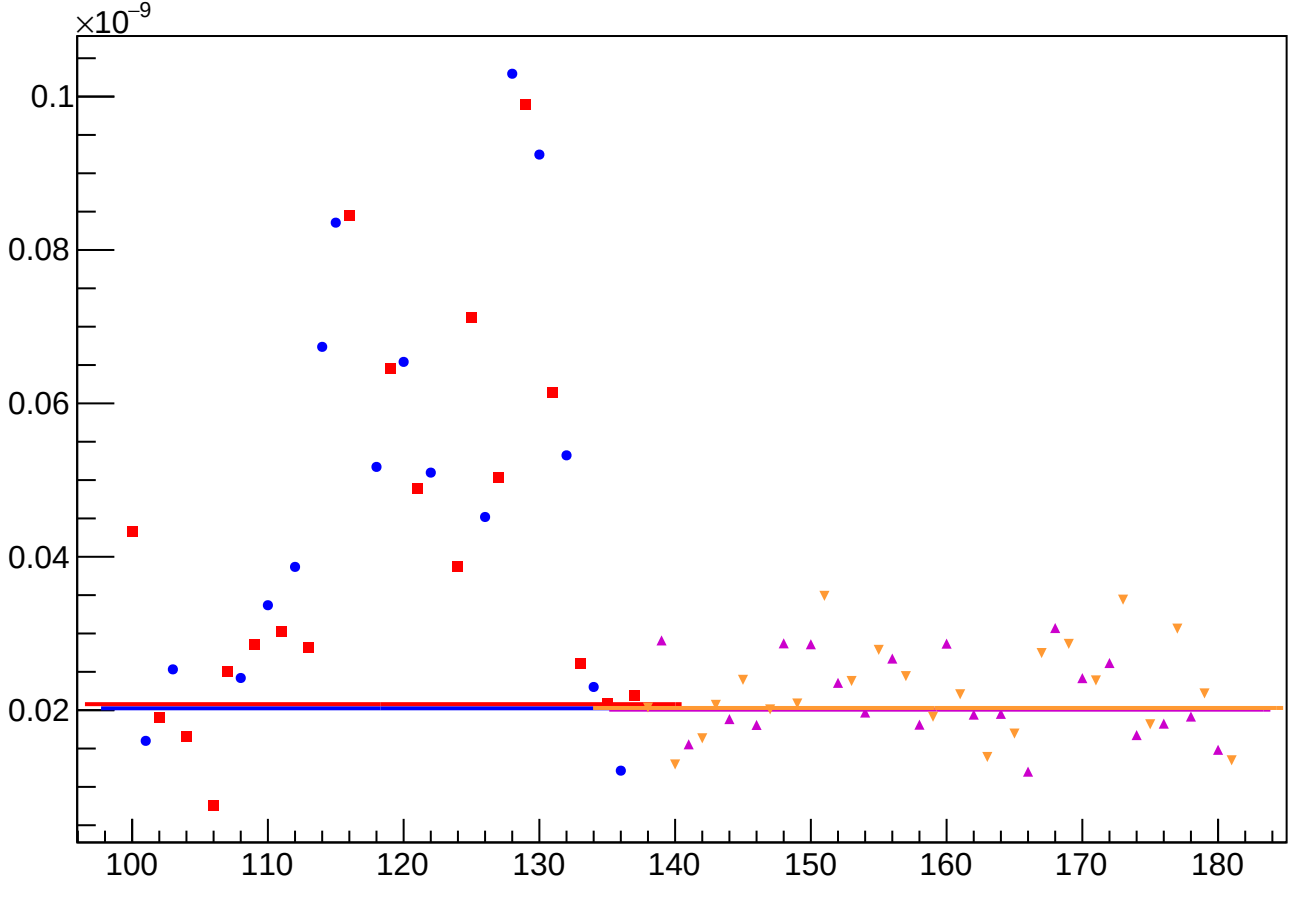
Left: 0.000+/-0.000 $\chi^2$/NDF: 41.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:31.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:47.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 81.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2004678.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:978519.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1855885.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:769462.1/20

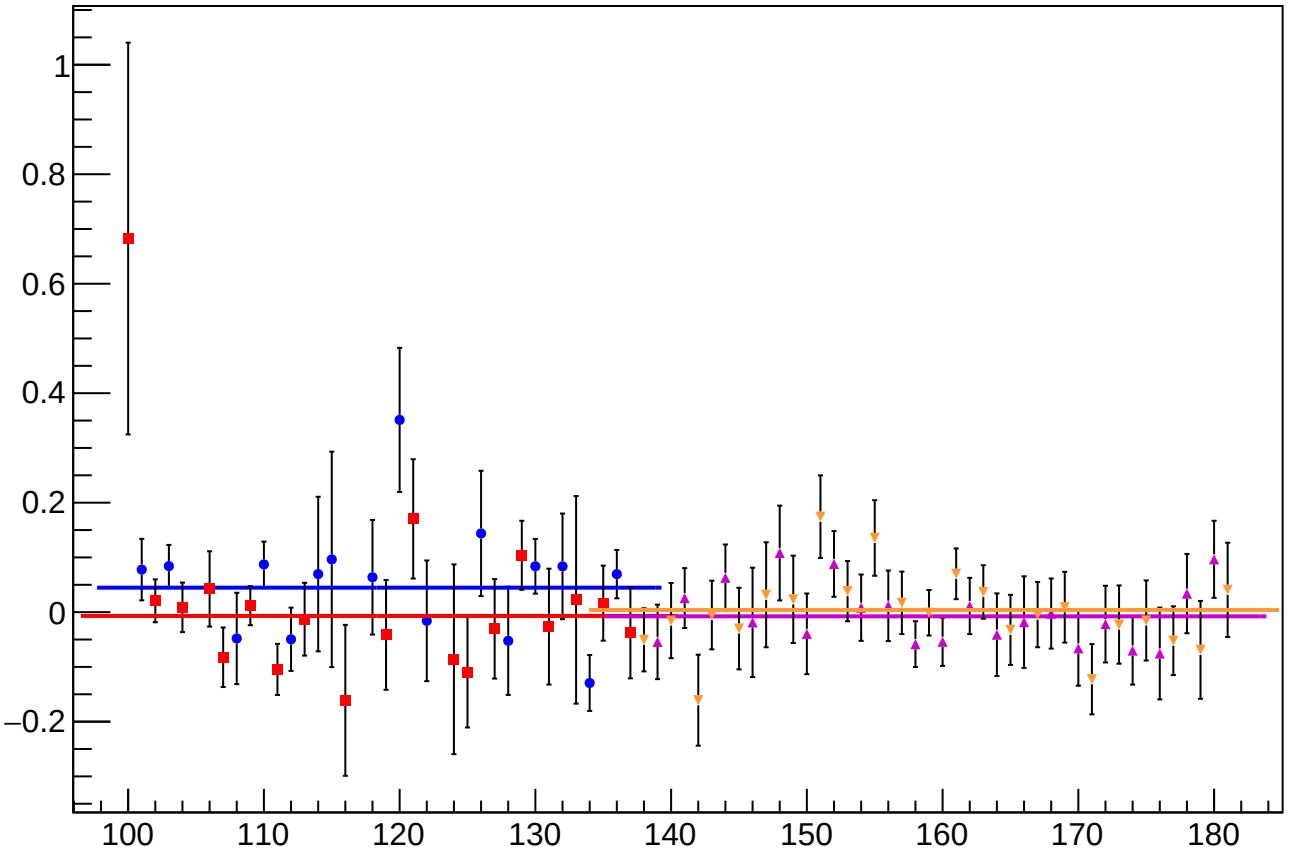
Left: 0.000+/-0.000 $\chi^2$/NDF: 1748762.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3862189.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:2774415.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:2836358.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 5612585.3/78




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: 0.004+/-0.013 $\chi^2$/NDF:23.0/22

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: -0.008+/-0.014 $\chi^2$/NDF:14.8/20

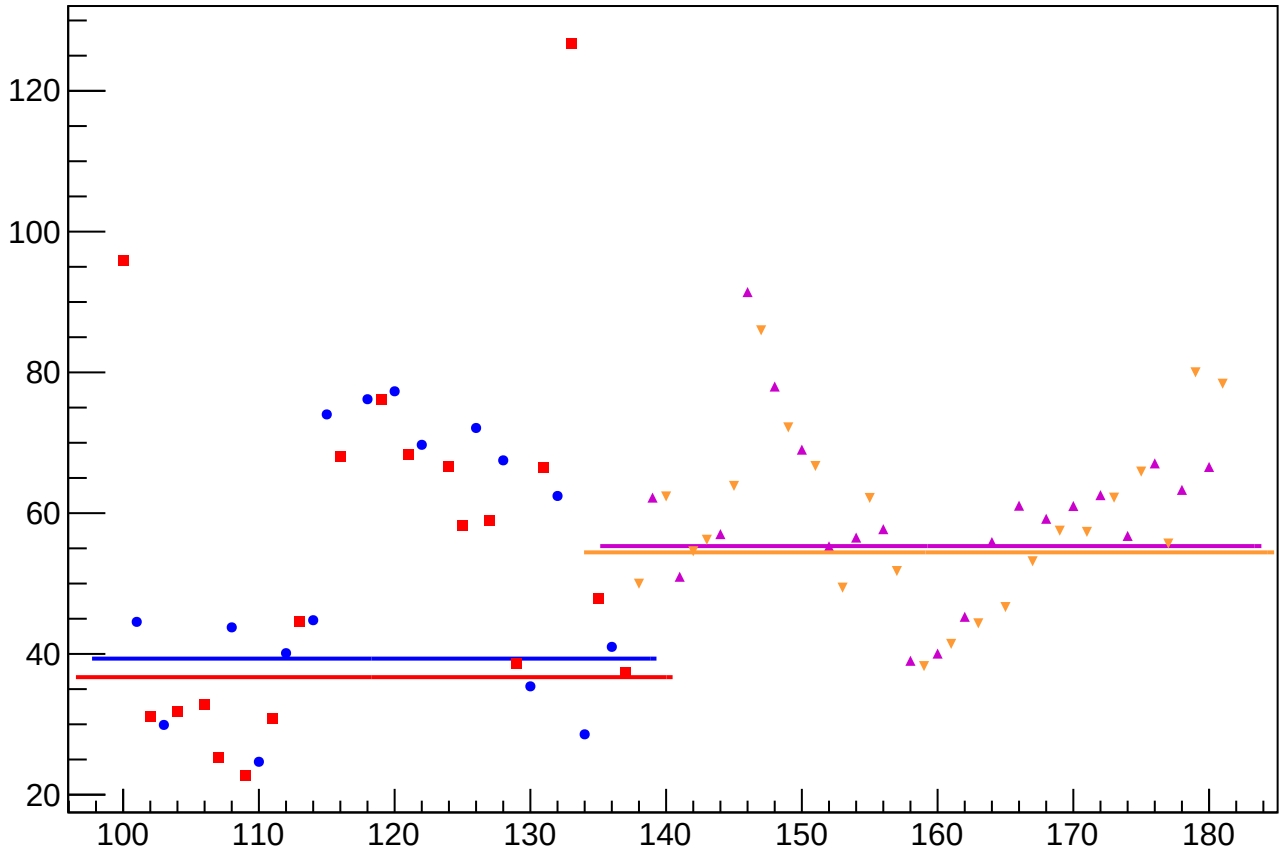
Left: -0.002+/-0.010 $\chi^2$/NDF: 38.2/43

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.015+/-0.010 $\chi^2$/NDF:47.5/36

Out: -0.001+/-0.010 $\chi^2$/NDF:43.5/41

All: 0.007+/-0.007 $\chi^2$/NDF: 92.2/78




Right In: 39.335+/-0.011 $\chi^2$/NDF: 1566525.1/15

Left Out: 54.430+/-0.009 $\chi^2$/NDF:1463823.1/22

Right Out: 36.700+/-0.011 $\chi^2$/NDF: 2096756.0/18

Left In: 55.322+/-0.010 $\chi^2$/NDF:1293426.1/20

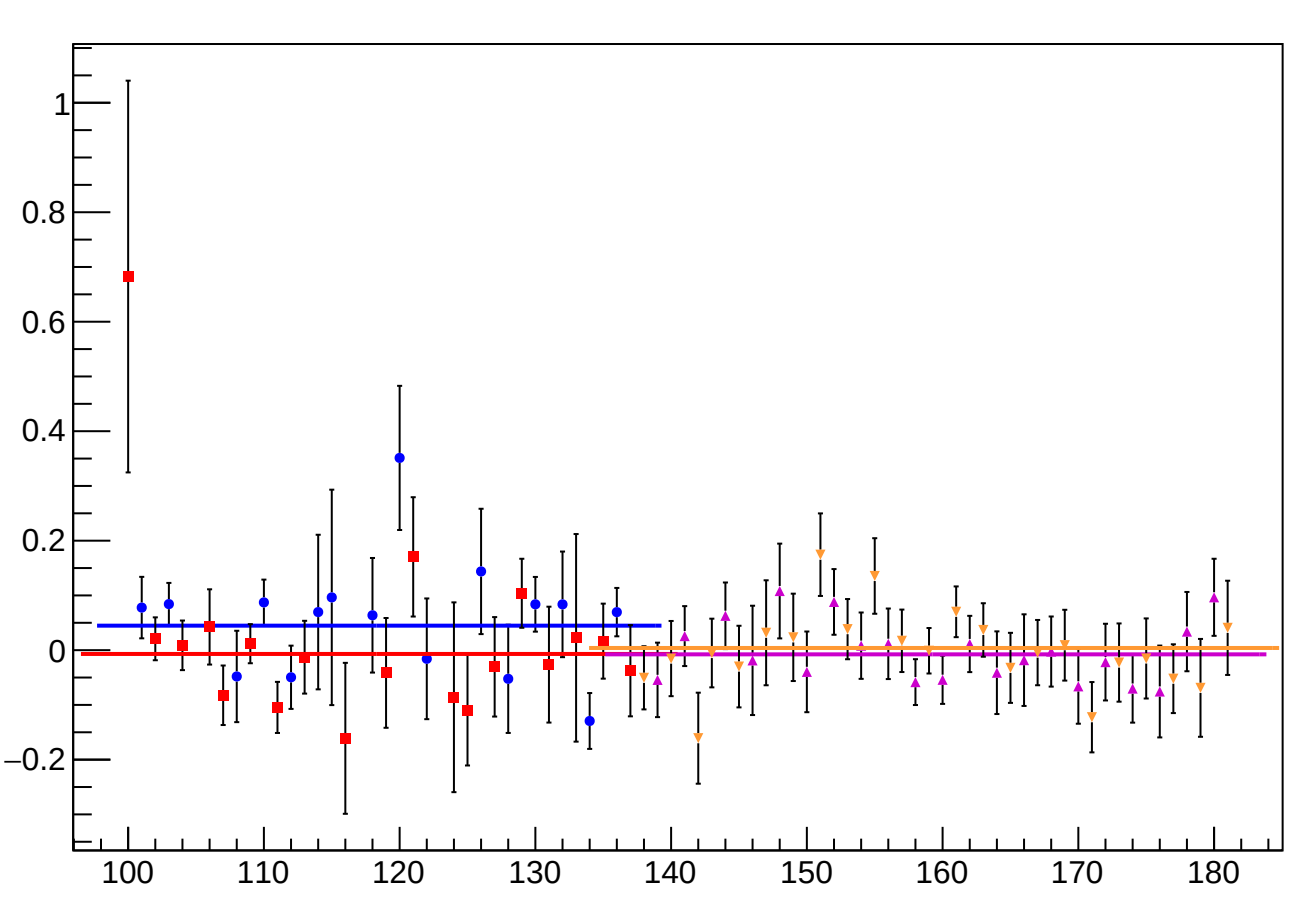
Left: 54.856+/-0.007 $\chi^2$/NDF: 2761622.9/43

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691907.9/34

In: 48.524+/-0.007 $\chi^2$/NDF:4004633.0/36

Out: 46.763+/-0.007 $\chi^2$/NDF:5123333.2/41

All: 47.599+/-0.005 $\chi^2$/NDF: 9157819.3/78




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: 0.004+/-0.013 $\chi^2$/NDF:23.0/22

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: -0.008+/-0.014 $\chi^2$/NDF:14.8/20

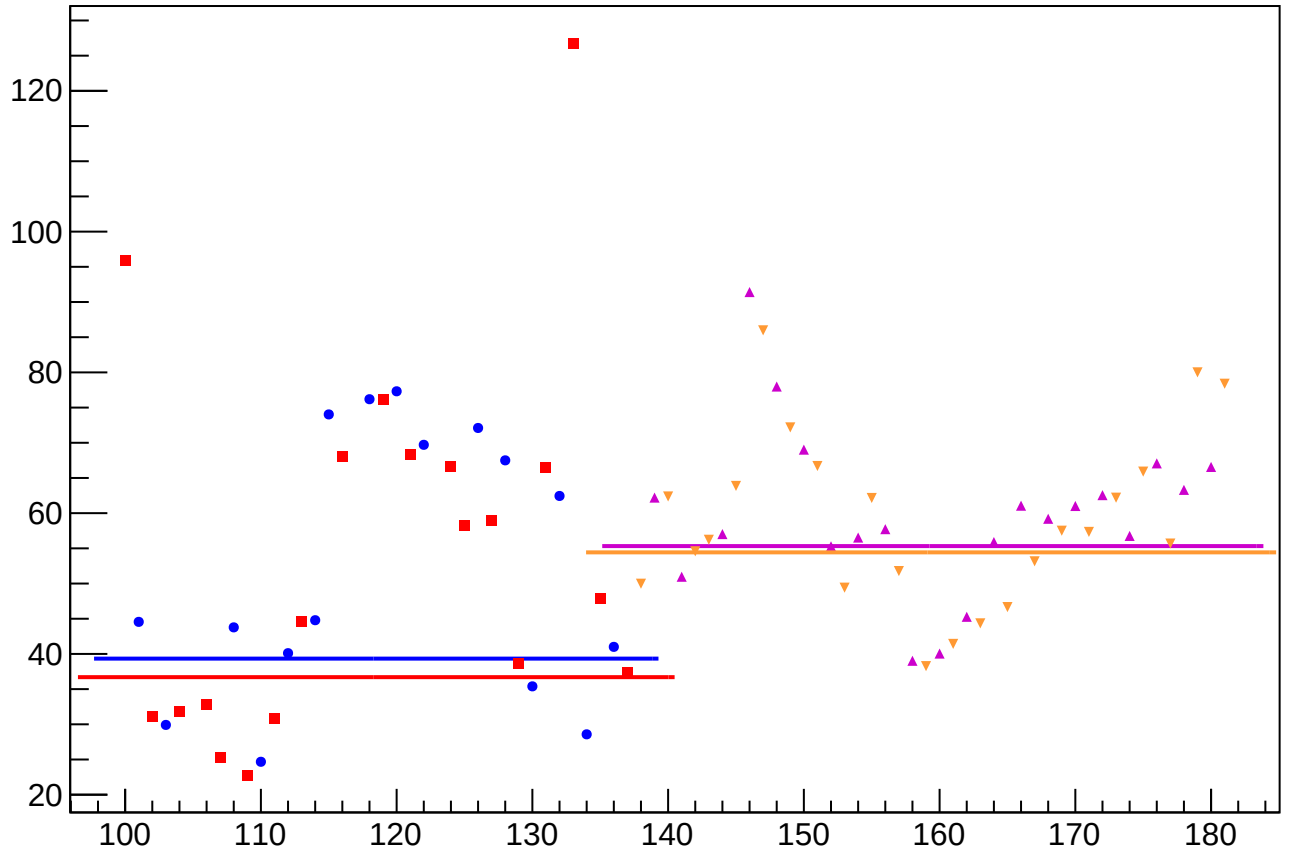
Left: -0.002+/-0.010 $\chi^2$/NDF: 38.2/43

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.015+/-0.010 $\chi^2$/NDF:47.5/36

Out: -0.001+/-0.010 $\chi^2$/NDF:43.5/41

All: 0.007+/-0.007 $\chi^2$/NDF: 92.2/78




Right In: 39.335+/-0.011 $\chi^2$/NDF: 1566525.1/15

Left Out: 54.430+/-0.009 $\chi^2$/NDF:1463823.1/22

Right Out: 36.700+/-0.011 $\chi^2$/NDF: 2096756.0/18

Left In: 55.322+/-0.010 $\chi^2$/NDF:1293426.1/20

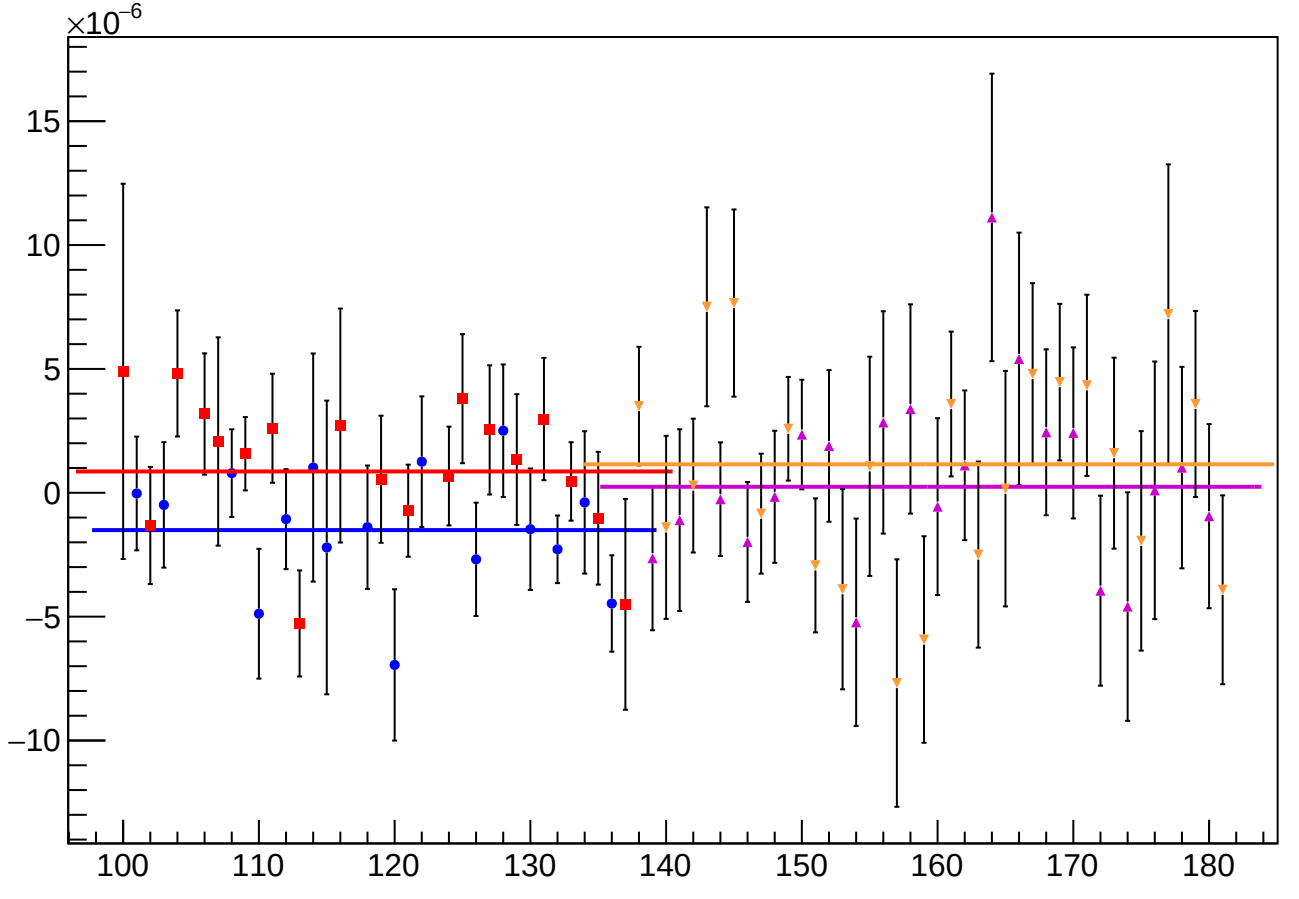
Left: 54.856+/-0.007 $\chi^2$/NDF: 2761622.9/43

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691907.9/34

In: 48.524+/-0.007 $\chi^2$/NDF:4004633.0/36

Out: 46.763+/-0.007 $\chi^2$/NDF:5123333.2/41

All: 47.599+/-0.005 $\chi^2$/NDF: 9157819.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:26.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.8/20

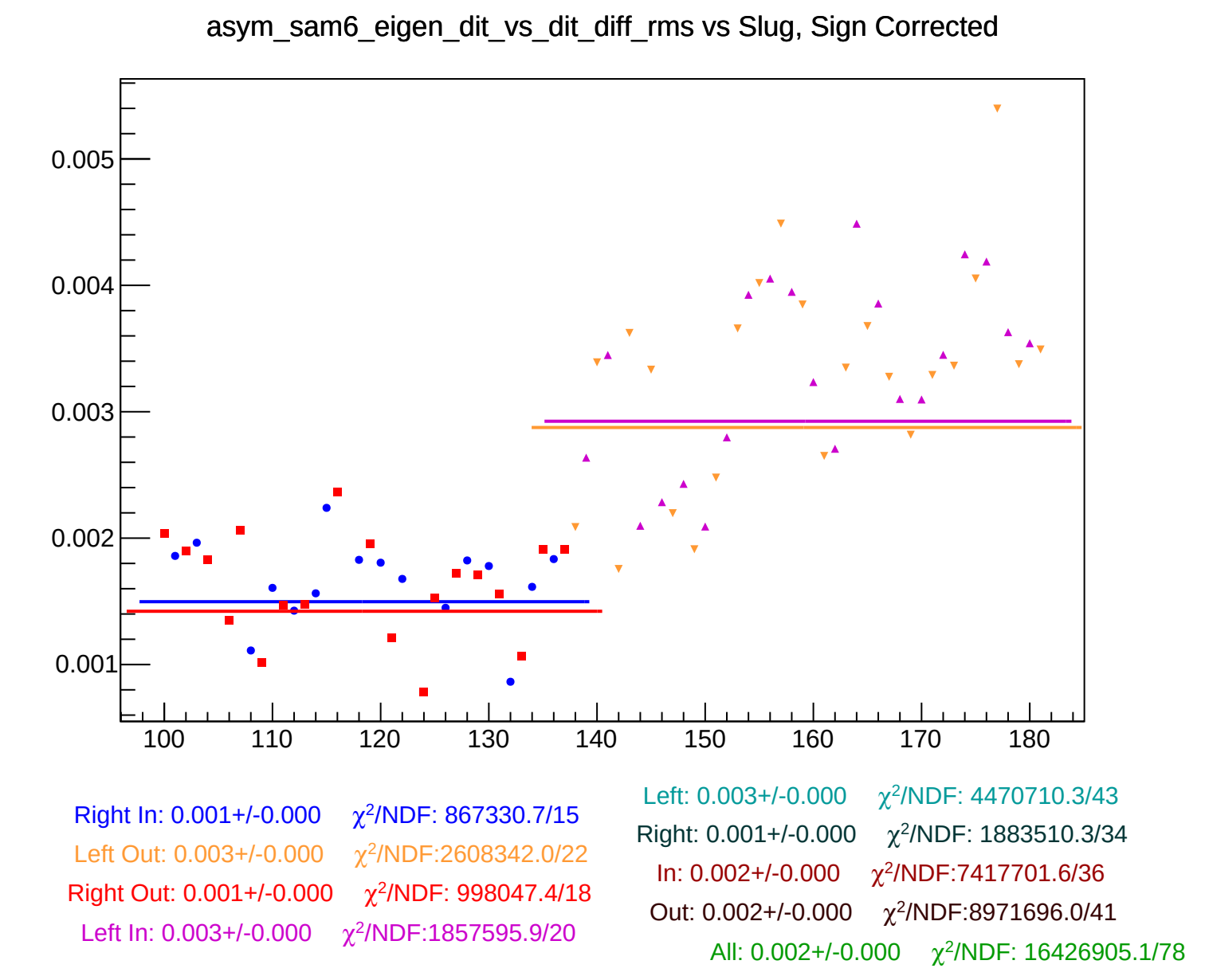
Left: 0.000+/-0.000 $\chi^2$/NDF: 40.8/43

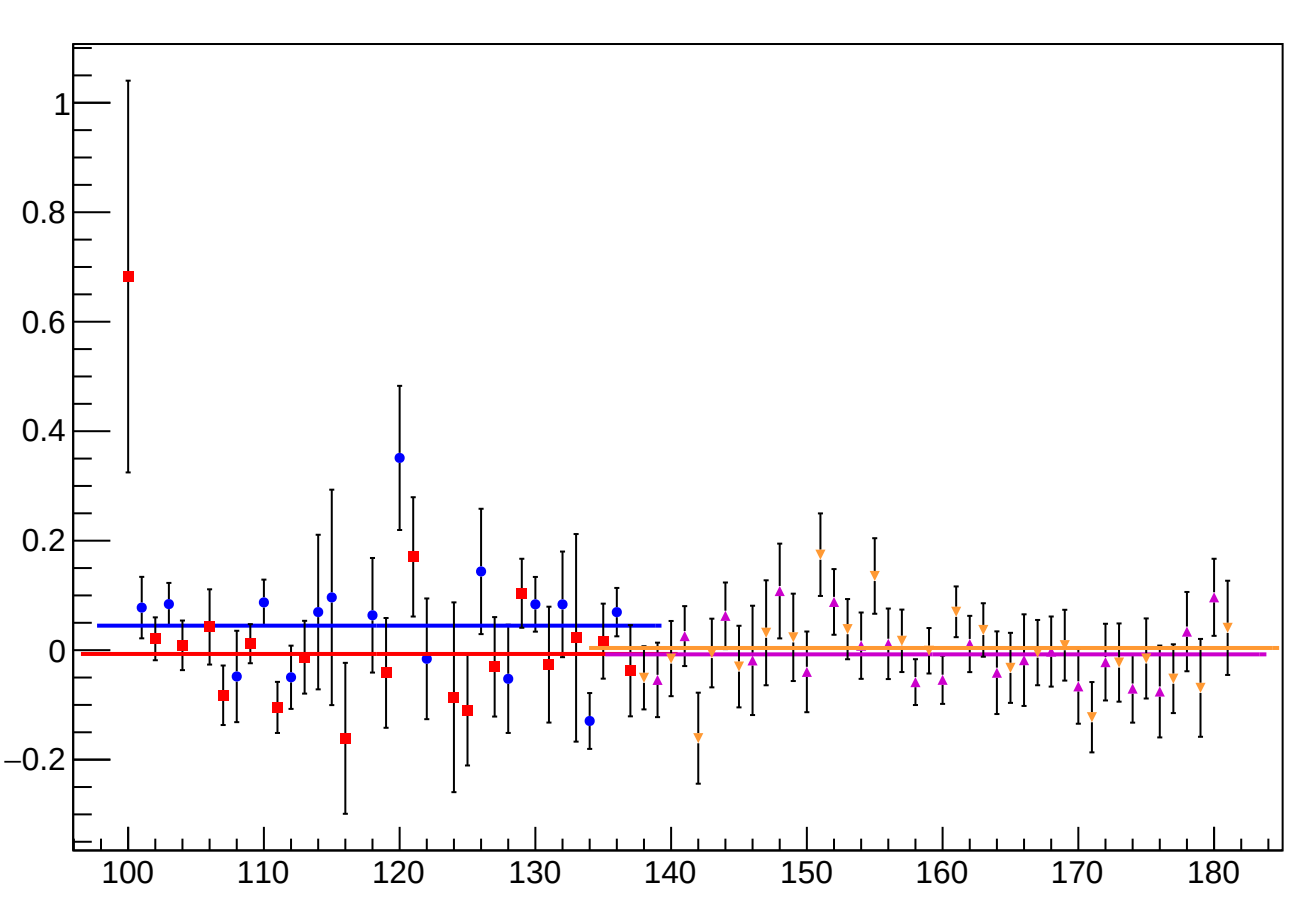
Right: -0.000+/-0.000 $\chi^2$/NDF: 41.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:31.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:45.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 84.9/78


asym_sam6_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.005
0.004
0.003
0.002
0.001
100
110
120
130
140
150
160
170
180
Right In: 0.001+/-0.000 χ²/NDF: 867330.7/15
Left Out: 0.003+/-0.000 χ²/NDF:2608342.0/22
Right Out: 0.001+/-0.000 χ²/NDF: 998047.4/18
Left In: 0.003+/-0.000 χ²/NDF:1857595.9/20
Left: 0.003+/-0.000 χ²/NDF: 4470710.3/43
Right: 0.001+/-0.000 χ²/NDF: 1883510.3/34
In: 0.002+/-0.000 χ²/NDF:7417701.6/36
Out: 0.002+/-0.000 χ²/NDF:8971696.0/41
All: 0.002+/-0.000 χ²/NDF: 16426905.1/78




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: 0.004+/-0.013 $\chi^2$/NDF:23.0/22

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: -0.008+/-0.014 $\chi^2$/NDF:14.8/20

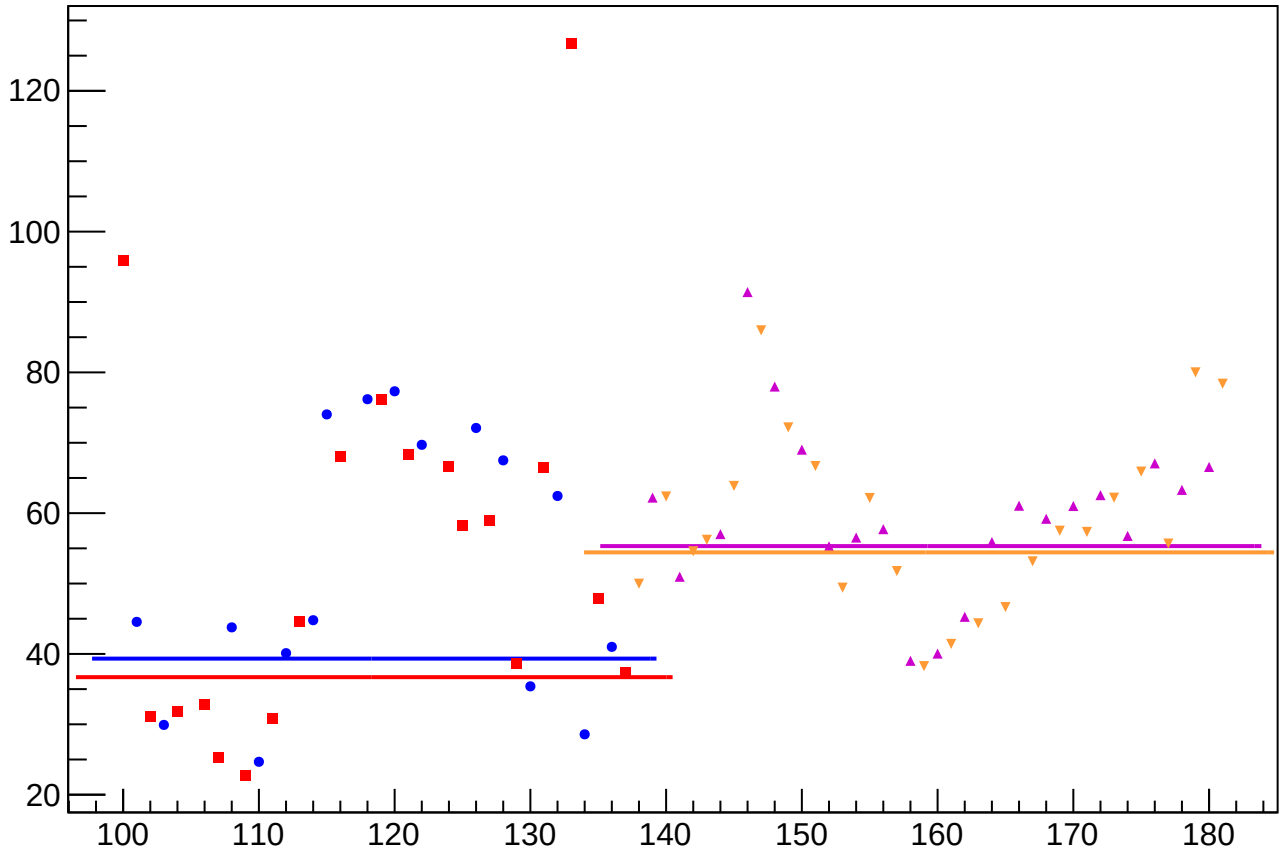
Left: -0.002+/-0.010 $\chi^2$/NDF: 38.2/43

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.015+/-0.010 $\chi^2$/NDF:47.5/36

Out: -0.001+/-0.010 $\chi^2$/NDF:43.5/41

All: 0.007+/-0.007 $\chi^2$/NDF: 92.2/78




Right In: 39.334+/-0.011 $\chi^2$/NDF: 1566545.4/15

Left Out: 54.429+/-0.009 $\chi^2$/NDF:1463928.4/22

Right Out: 36.699+/-0.011 $\chi^2$/NDF: 2096748.4/18

Left In: 55.321+/-0.010 $\chi^2$/NDF:1293572.0/20

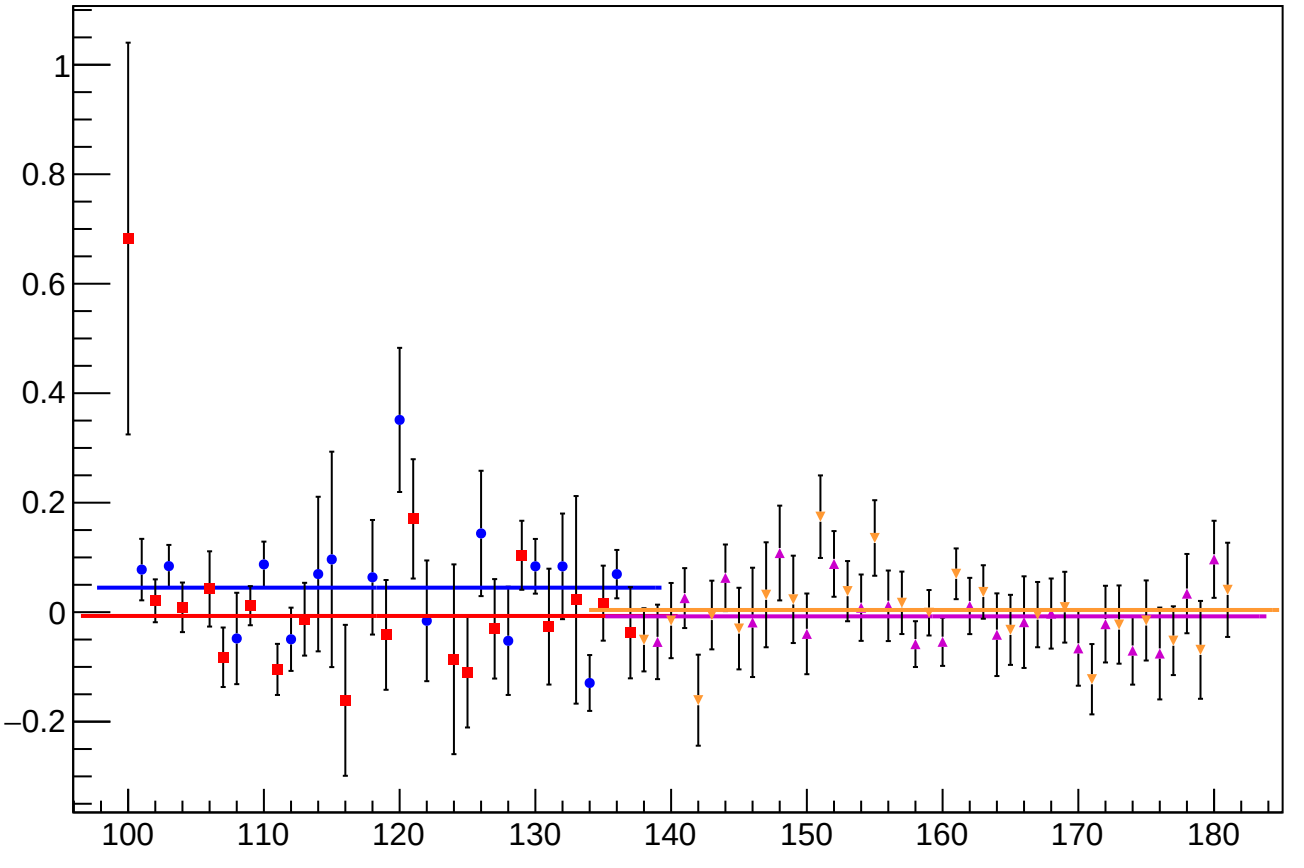
Left: 54.855+/-0.007 $\chi^2$/NDF: 2761872.4/43

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691915.1/34

In: 48.523+/-0.007 $\chi^2$/NDF:4004738.1/36

Out: 46.762+/-0.007 $\chi^2$/NDF:5123332.5/41

All: 47.599+/-0.005 $\chi^2$/NDF: 9157915.8/78




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: 0.004+/-0.013 $\chi^2$/NDF:23.0/22

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: -0.008+/-0.014 $\chi^2$/NDF:14.8/20

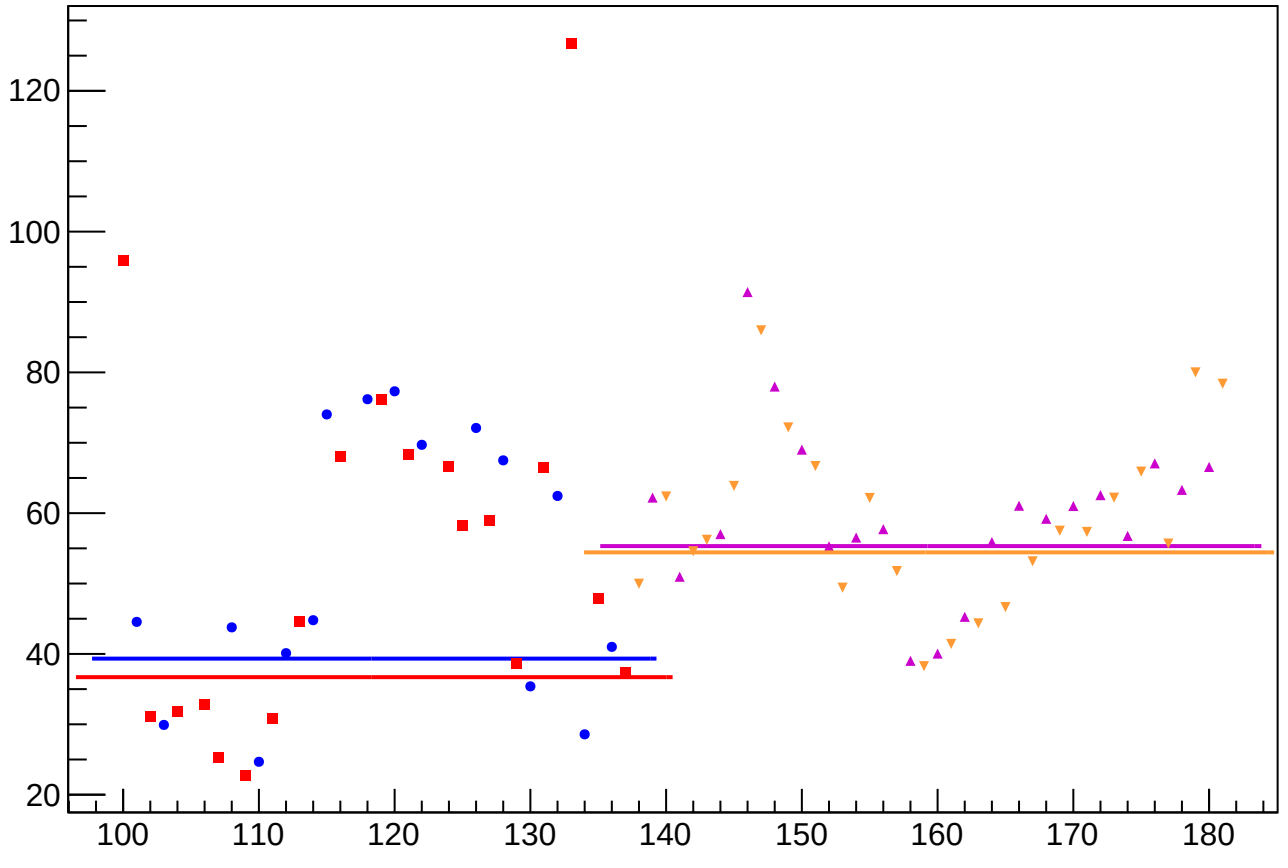
Left: -0.002+/-0.010 $\chi^2$/NDF: 38.2/43

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.015+/-0.010 $\chi^2$/NDF:47.5/36

Out: -0.001+/-0.010 $\chi^2$/NDF:43.5/41

All: 0.007+/-0.007 $\chi^2$/NDF: 92.2/78




Right In: 39.334+/-0.011 $\chi^2$/NDF: 1566545.4/15

Left Out: 54.429+/-0.009 $\chi^2$/NDF:1463928.4/22

Right Out: 36.699+/-0.011 $\chi^2$/NDF: 2096748.4/18

Left In: 55.321+/-0.010 $\chi^2$/NDF:1293572.0/20

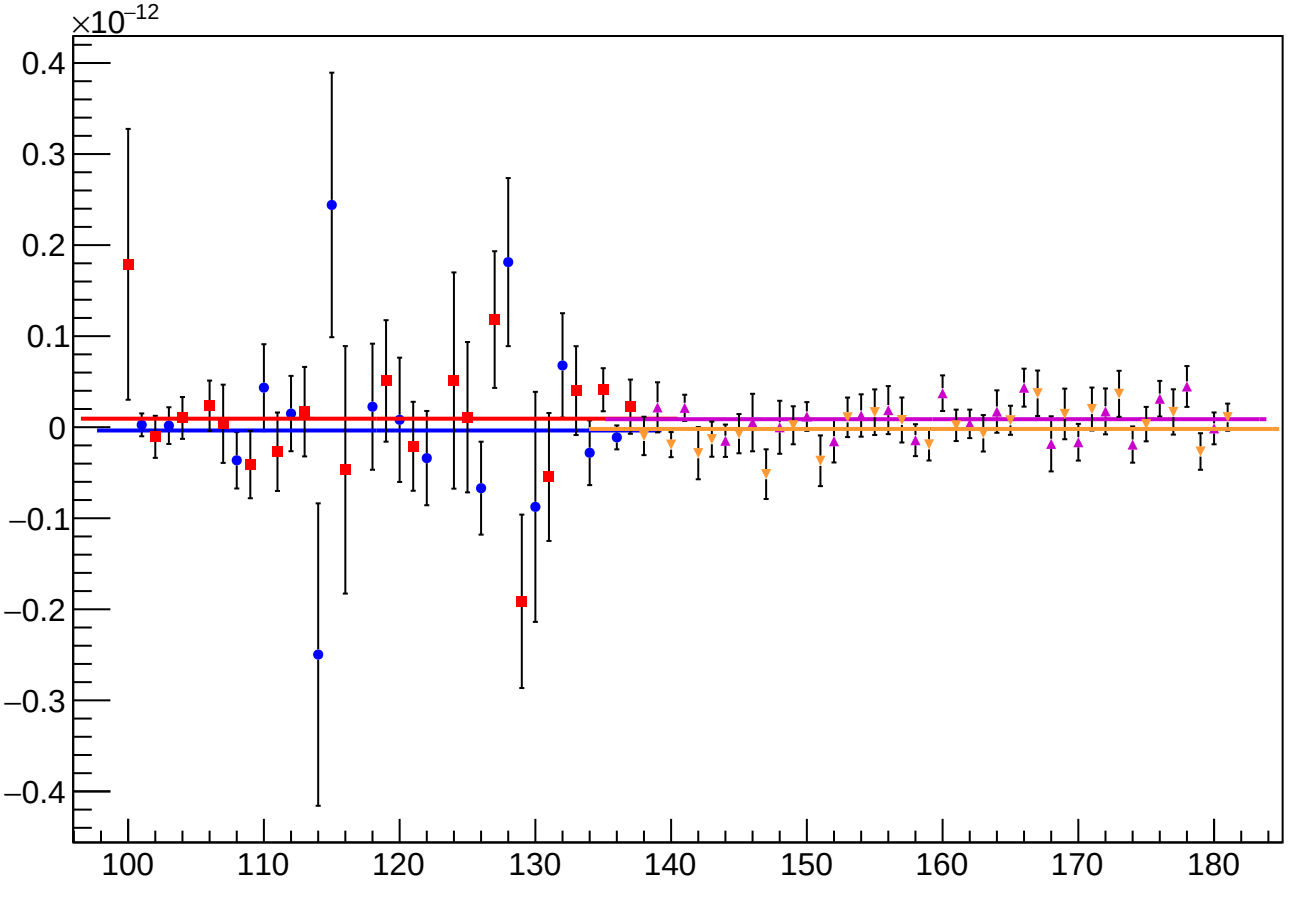
Left: 54.855+/-0.007 $\chi^2$/NDF: 2761872.4/43

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691915.1/34

In: 48.523+/-0.007 $\chi^2$/NDF:4004738.1/36

Out: 46.762+/-0.007 $\chi^2$/NDF:5123332.5/41

All: 47.599+/-0.005 $\chi^2$/NDF: 9157915.8/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:19.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.7/20

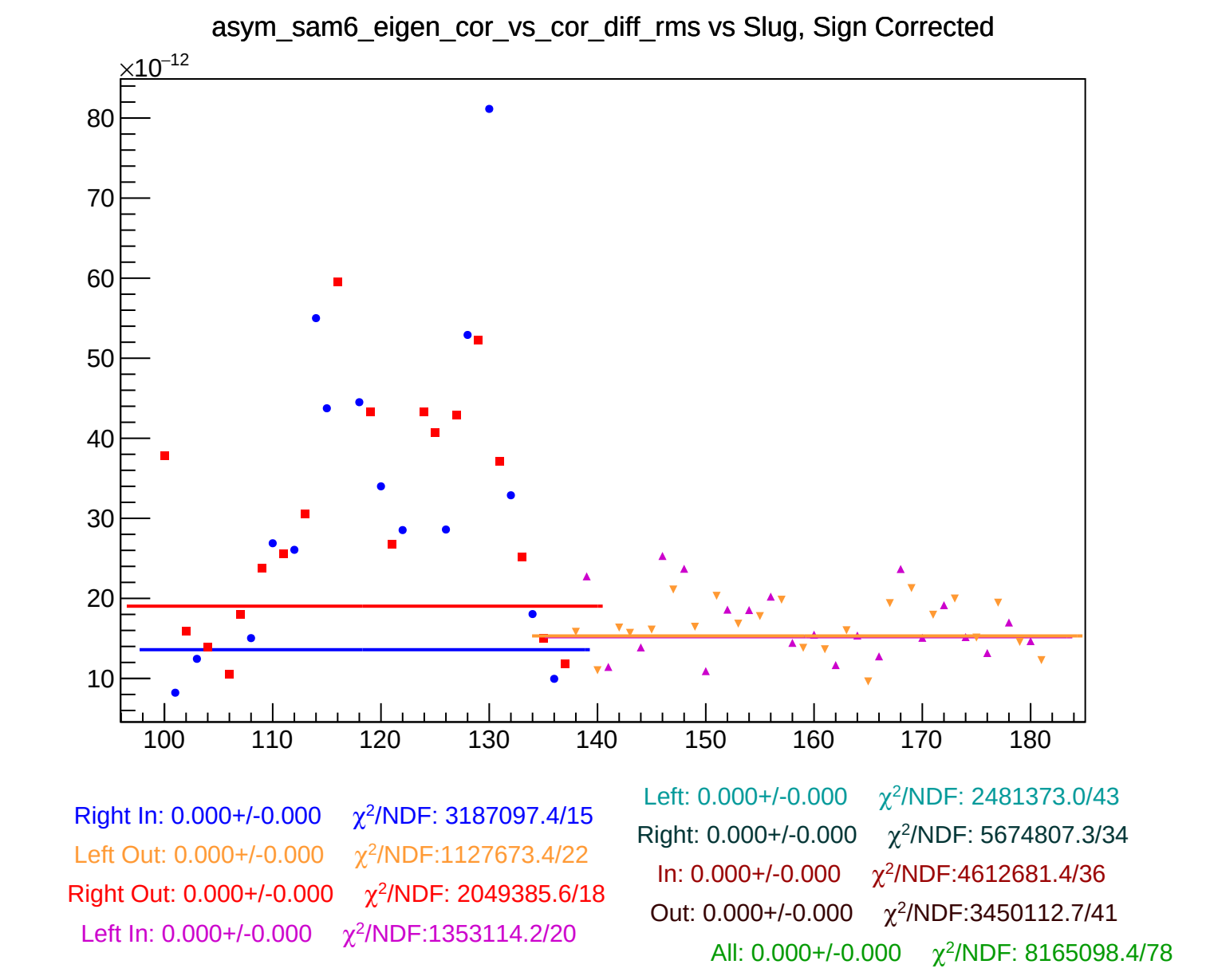
Left: 0.000+/-0.000 $\chi^2$/NDF: 41.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/34

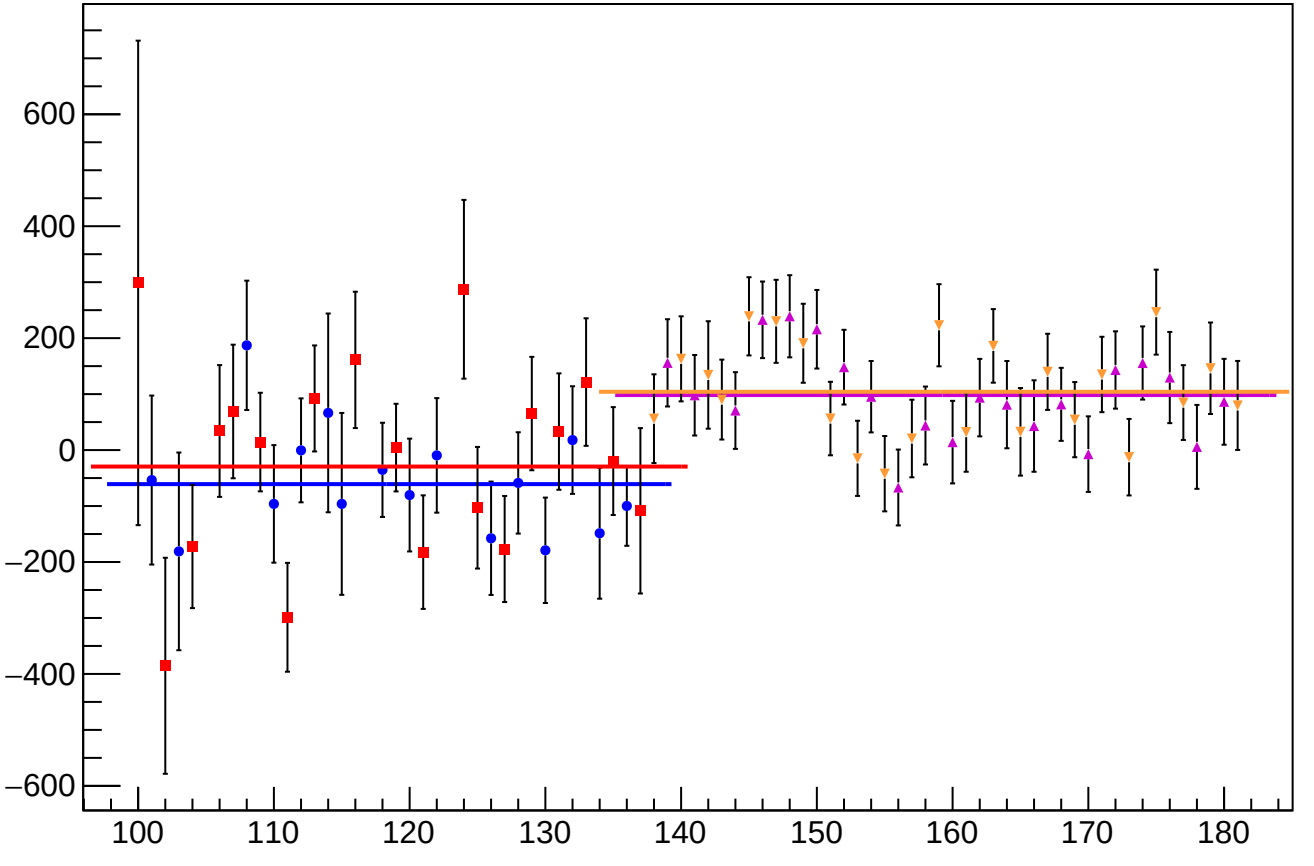
In: 0.000+/-0.000 $\chi^2$/NDF:38.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:36.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 75.5/78


asym_sam6_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻¹²
80
70
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 3187097.4/15
Left Out: 0.000+/-0.000 χ²/NDF:1127673.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 2049385.6/18
Left In: 0.000+/-0.000 χ²/NDF:1353114.2/20
Left: 0.000+/-0.000 χ²/NDF: 2481373.0/43
Right: 0.000+/-0.000 χ²/NDF: 5674807.3/34
In: 0.000+/-0.000 χ²/NDF:4612681.4/36
Out: 0.000+/-0.000 χ²/NDF:3450112.7/41
All: 0.000+/-0.000 χ²/NDF: 8165098.4/78

# reg_asym_sam7_mean vs Slug, Sign Corrected




Right In: -60.846+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 104.188+/-14.966 $\chi^2$/NDF:33.0/22

Right Out: -29.453+/-25.105 $\chi^2$/NDF: 31.2/18

Left In: 98.288+/-15.487 $\chi^2$/NDF:25.4/20

Left: 101.339+/-10.762 $\chi^2$/NDF: 58.5/43

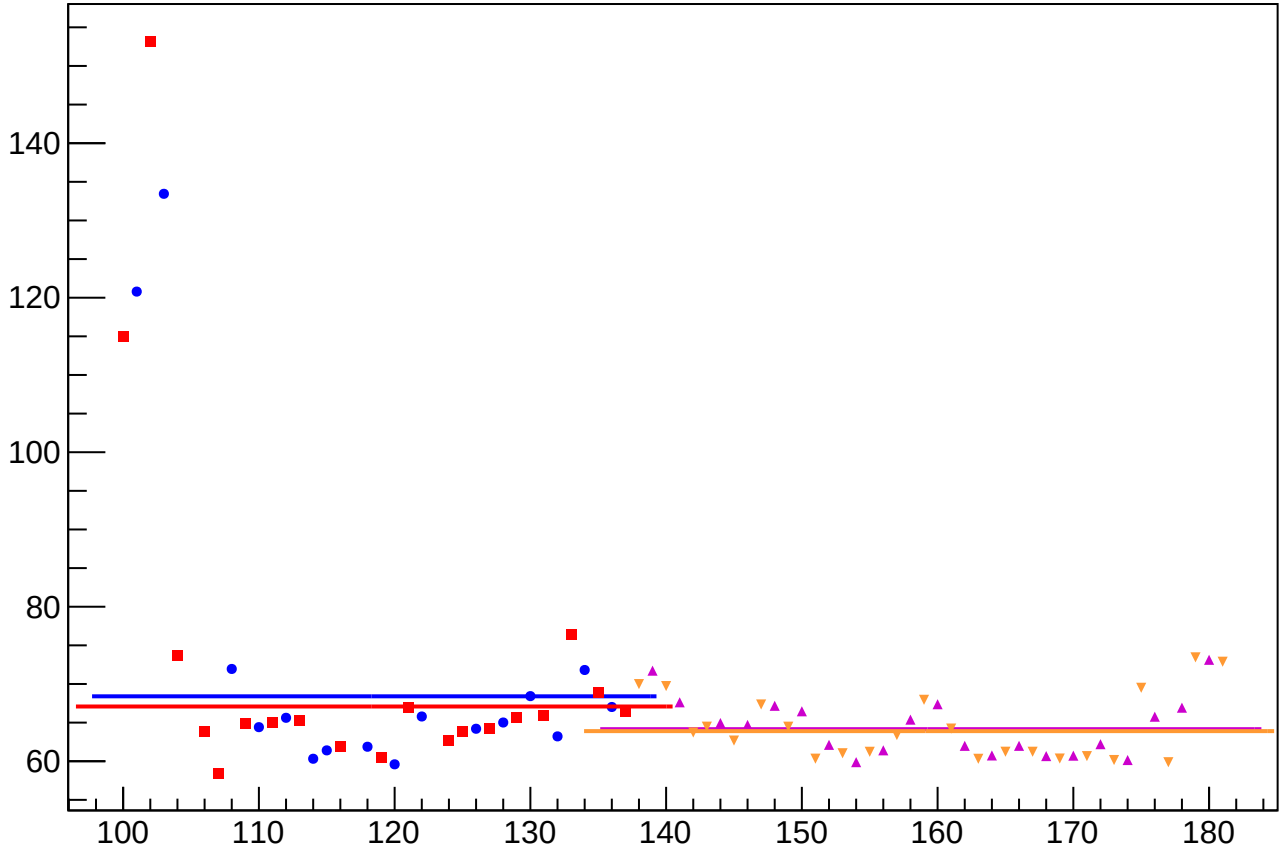
Right: -44.568+/-18.078 $\chi^2$/NDF: 42.5/34

In: 56.741+/-13.312 $\chi^2$/NDF:63.5/36

Out: 69.146+/-12.855 $\chi^2$/NDF:85.1/41

All: 63.160+/-9.248 $\chi^2$/NDF: 149.1/78

# reg_asym_sam7_rms vs Slug, Sign Corrected




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.5/15

Left Out: 63.898+/-0.011 $\chi^2$/NDF:146246.9/22

Right Out: 67.086+/-0.018 $\chi^2$/NDF: 481815.1/18

Left In: 64.152+/-0.011 $\chi^2$/NDF:106030.1/20

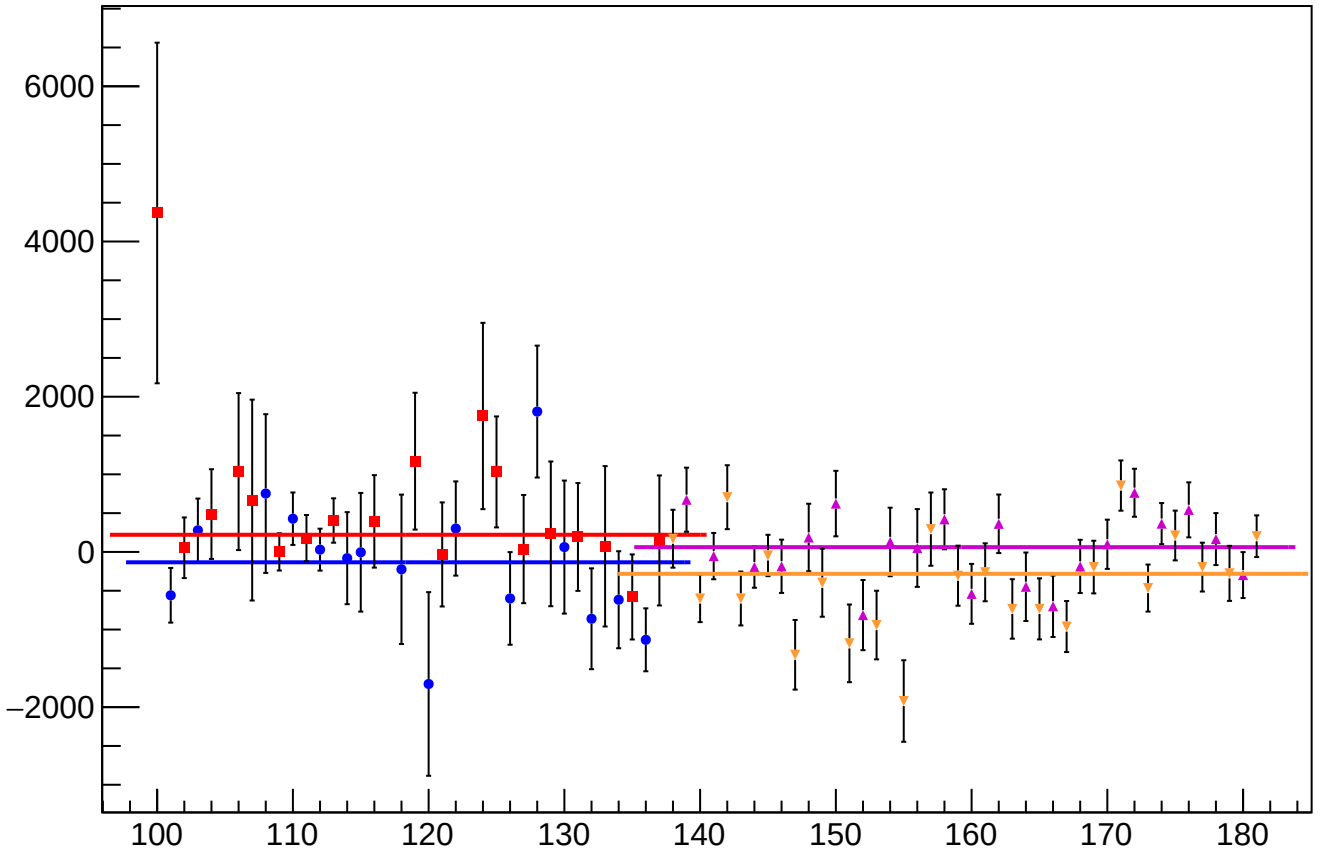
Left: 64.021+/-0.008 $\chi^2$/NDF: 252555.7/43

Right: 67.720+/-0.013 $\chi^2$/NDF: 1054024.8/34

In: 65.262+/-0.009 $\chi^2$/NDF:714934.3/36

Out: 64.734+/-0.009 $\chi^2$/NDF:651853.5/41

All: 64.989+/-0.007 $\chi^2$/NDF: 1368417.4/78




Right In: -133.590+/-125.904 $\chi^2$/NDF: 22.5/15

Left Out: -282.097+/-74.372 $\chi^2$/NDF:57.5/22

Right Out: 221.324+/-117.783 $\chi^2$/NDF: 12.5/18

Left In: 61.533+/-77.152 $\chi^2$/NDF:28.8/20

Left: -116.583+/-53.545 $\chi^2$/NDF: 96.6/43

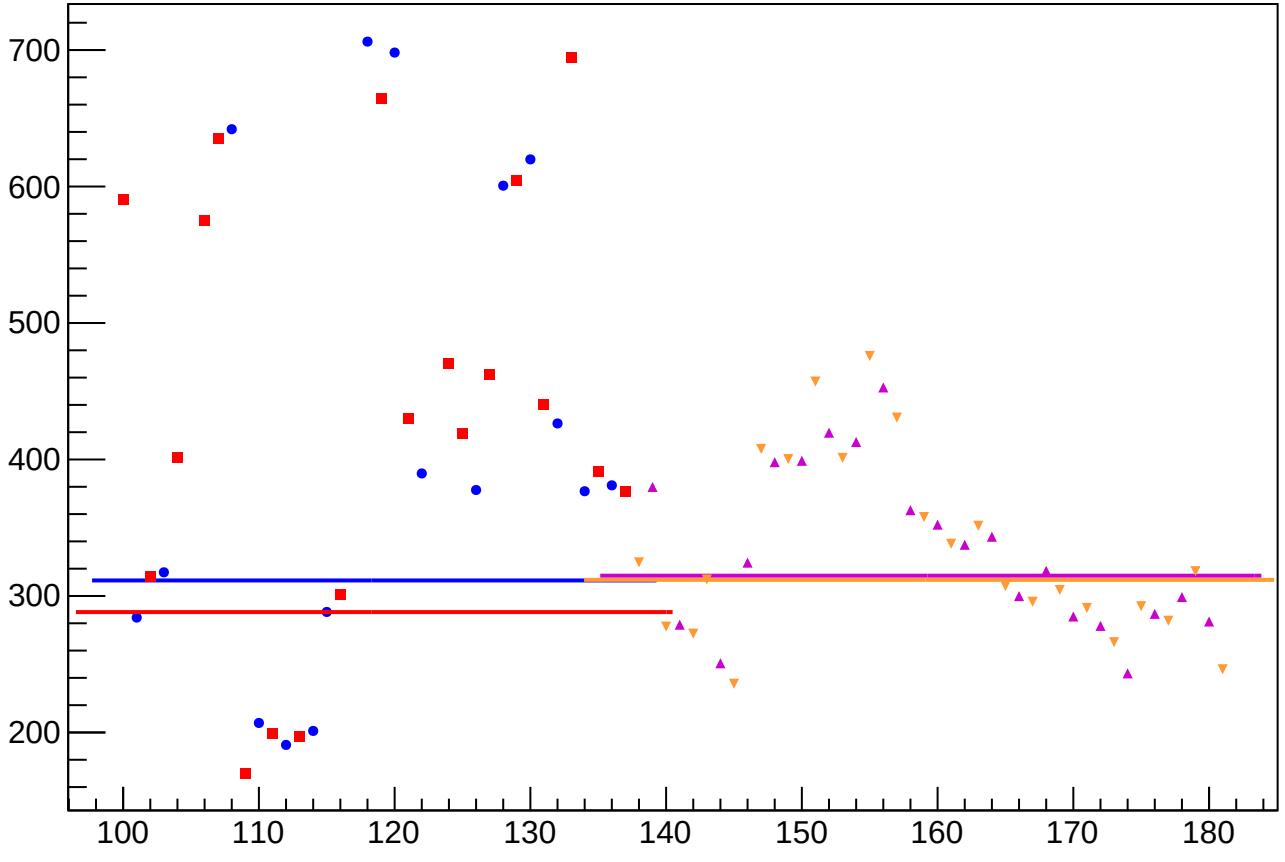
Right: 55.682+/-86.013 $\chi^2$/NDF: 39.2/34

In: 8.266+/-65.783 $\chi^2$/NDF:53.0/36

Out: -138.593+/-62.885 $\chi^2$/NDF:83.1/41

All: -68.470+/-45.457 $\chi^2$/NDF: 138.7/78

# asym_sam7_reg_correction_rms vs Slug, Sign Corrected




Right In: 311.386+/-0.089 $\chi^2$/NDF: 2123797.6/15

Left Out: 311.826+/-0.053 $\chi^2$/NDF:1218561.9/22

Right Out: 288.205+/-0.083 $\chi^2$/NDF: 2715380.6/18

Left In: 314.868+/-0.055 $\chi^2$/NDF:1009278.2/20

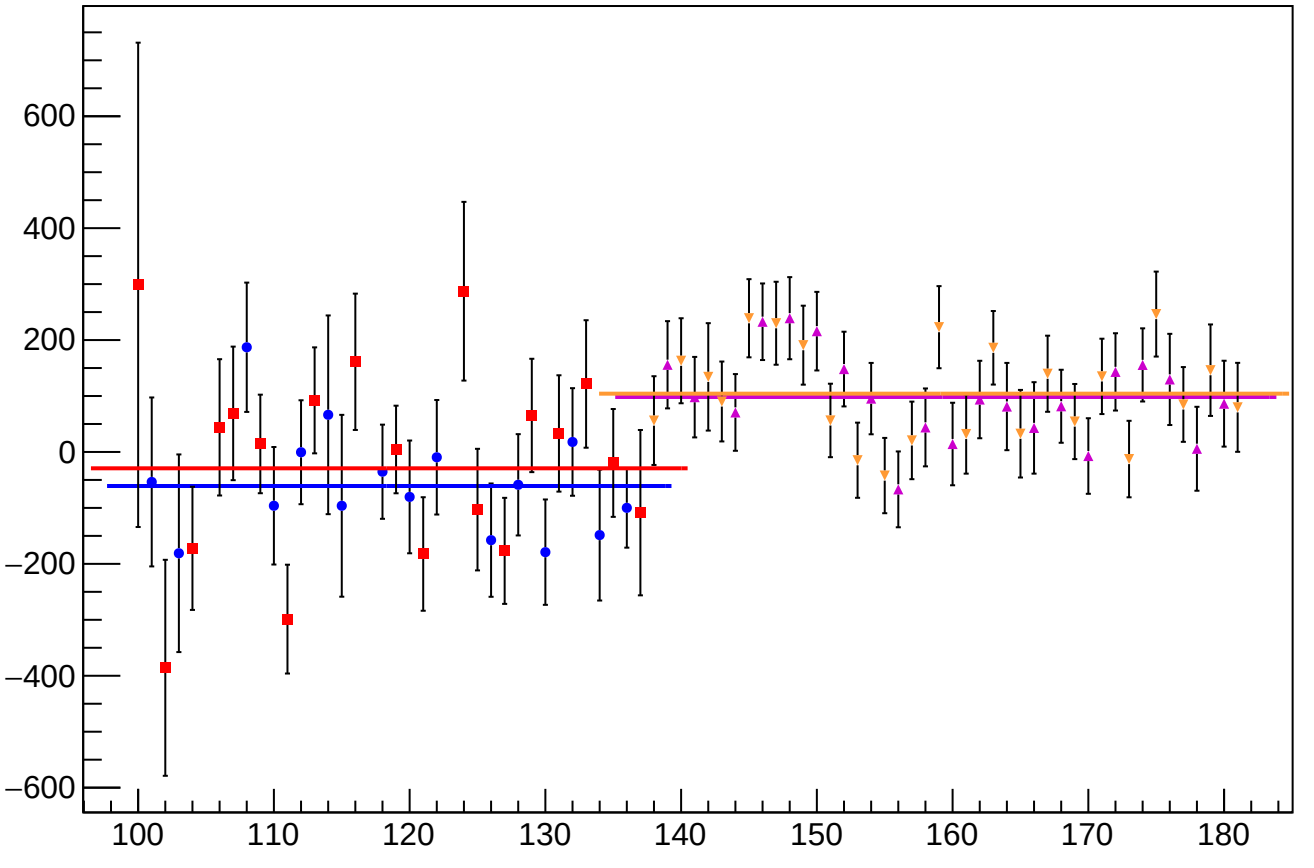
Left: 313.291+/-0.038 $\chi^2$/NDF: 2229450.8/43

Right: 299.024+/-0.061 $\chi^2$/NDF: 4875335.3/34

In: 313.917+/-0.047 $\chi^2$/NDF:3134187.6/36

Out: 305.093+/-0.044 $\chi^2$/NDF:3991454.8/41

All: 309.306+/-0.032 $\chi^2$/NDF: 7144446.3/78




Right In: -60.848+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 104.188+/-14.966 $\chi^2$/NDF:33.0/22

Right Out: -29.221+/-25.143 $\chi^2$/NDF: 31.3/18

Left In: 98.286+/-15.487 $\chi^2$/NDF:25.4/20

Left: 101.338+/-10.762 $\chi^2$/NDF: 58.5/43

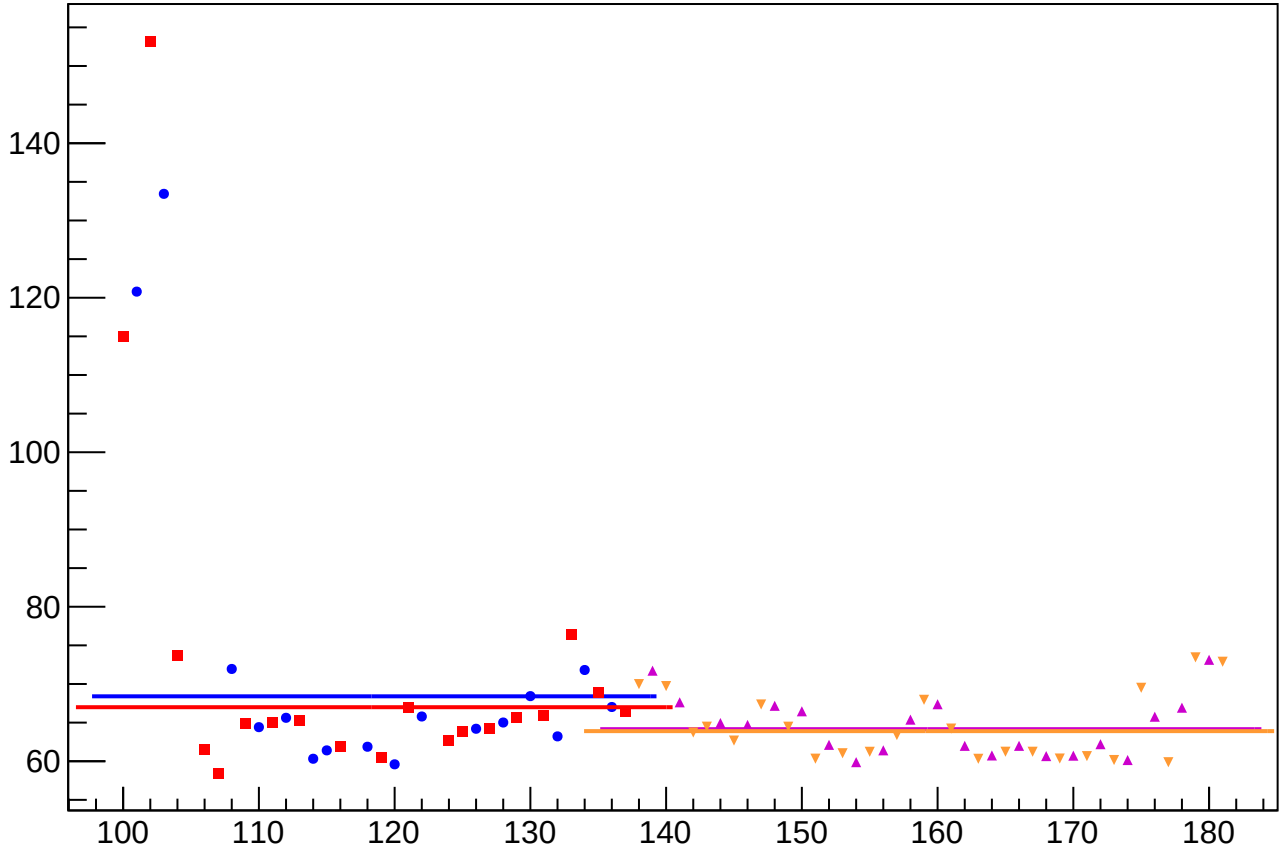
Right: -44.472+/-18.092 $\chi^2$/NDF: 42.6/34

In: 56.739+/-13.312 $\chi^2$/NDF:63.5/36

Out: 69.285+/-12.861 $\chi^2$/NDF:85.1/41

All: 63.229+/-9.249 $\chi^2$/NDF: 149.1/78

# cor_asym_sam7_rms vs Slug, Sign Corrected




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.9/15

Left Out: 63.898+/-0.011 $\chi^2$/NDF:146246.9/22

Right Out: 66.995+/-0.018 $\chi^2$/NDF: 484487.7/18

Left In: 64.152+/-0.011 $\chi^2$/NDF:106030.1/20

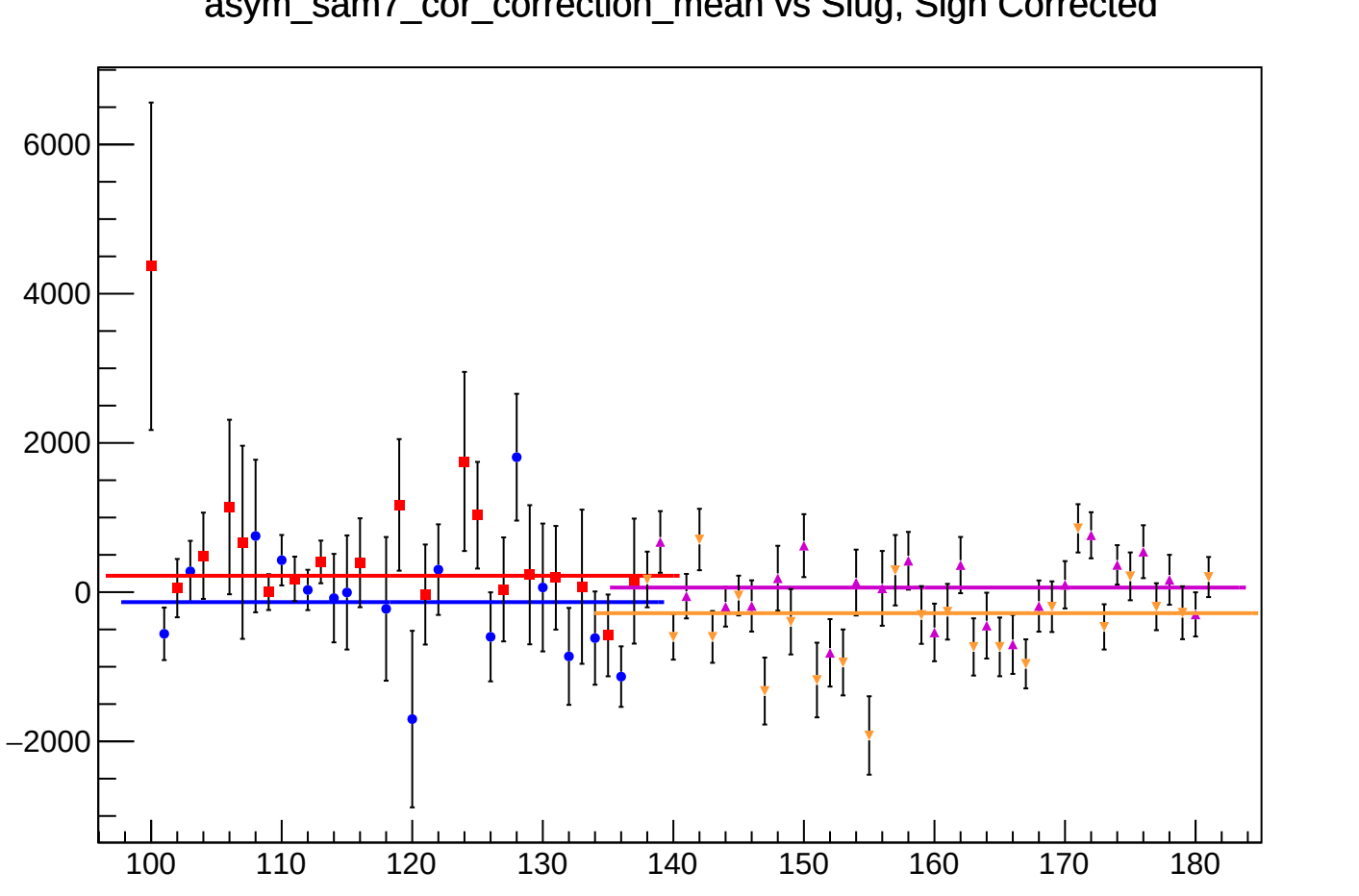
Left: 64.021+/-0.008 $\chi^2$/NDF: 252555.7/43

Right: 67.674+/-0.013 $\chi^2$/NDF: 1057072.9/34

In: 65.262+/-0.009 $\chi^2$/NDF:714934.7/36

Out: 64.708+/-0.009 $\chi^2$/NDF:653136.0/41

All: 64.976+/-0.007 $\chi^2$/NDF: 1369861.8/78




Right In: -133.587+/-125.904 $\chi^2$/NDF: 22.5/15

Left Out: -282.097+/-74.372 $\chi^2$/NDF:57.5/22

Right Out: 219.615+/-117.989 $\chi^2$/NDF: 12.5/18

Left In: 61.528+/-77.152 $\chi^2$/NDF:28.8/20

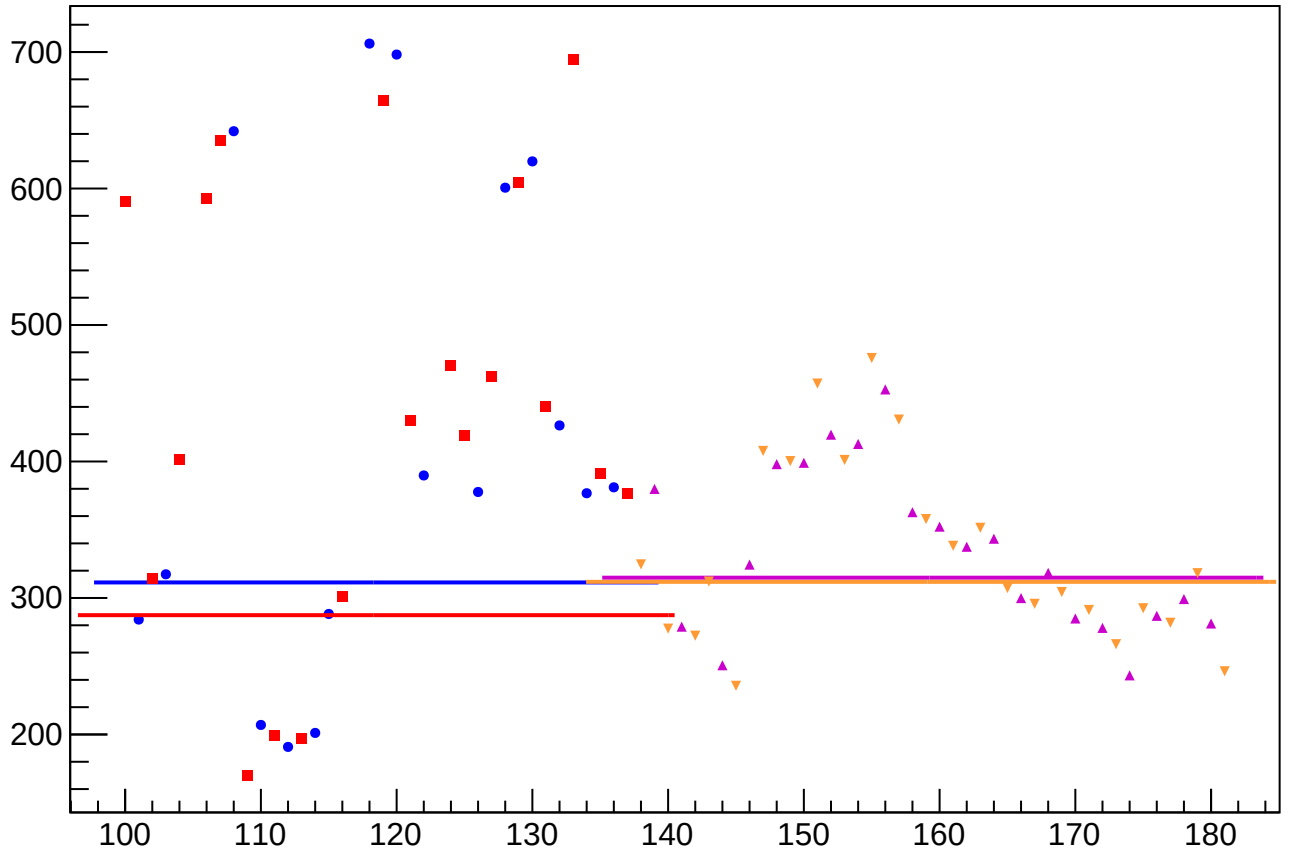
Left: -116.585+/-53.545 $\chi^2$/NDF: 96.6/43

Right: 54.464+/-86.093 $\chi^2$/NDF: 39.2/34

In: 8.263+/-65.783 $\chi^2$/NDF:53.0/36

Out: -139.438+/-62.916 $\chi^2$/NDF:83.0/41

All: -68.876+/-45.468 $\chi^2$/NDF: 138.6/78




Right In: 311.388+/-0.089 $\chi^2$/NDF: 2123799.0/15

Left Out: 311.826+/-0.053 $\chi^2$/NDF:1218559.6/22

Right Out: 287.413+/-0.083 $\chi^2$/NDF: 2690258.0/18

Left In: 314.868+/-0.055 $\chi^2$/NDF:1009281.3/20

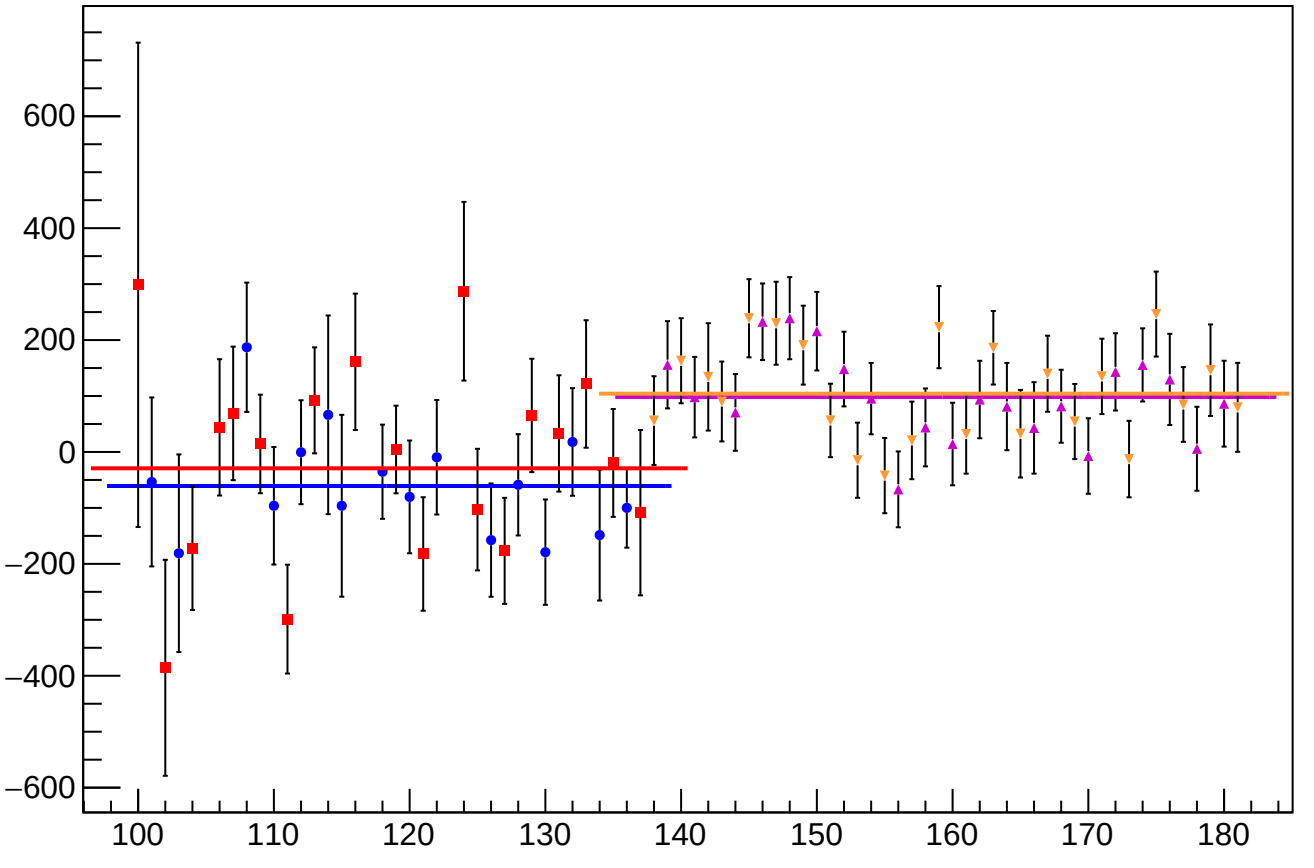
Left: 313.291+/-0.038 $\chi^2$/NDF: 2229451.8/43

Right: 298.623+/-0.061 $\chi^2$/NDF: 4852668.8/34

In: 313.918+/-0.047 $\chi^2$/NDF:3134190.9/36

Out: 304.885+/-0.044 $\chi^2$/NDF:3970095.1/41

All: 309.200+/-0.032 $\chi^2$/NDF: 7123981.6/78




Right In: -60.848+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 104.188+/-14.966 $\chi^2$/NDF:33.0/22

Right Out: -29.221+/-25.143 $\chi^2$/NDF: 31.3/18

Left In: 98.286+/-15.487 $\chi^2$/NDF:25.4/20

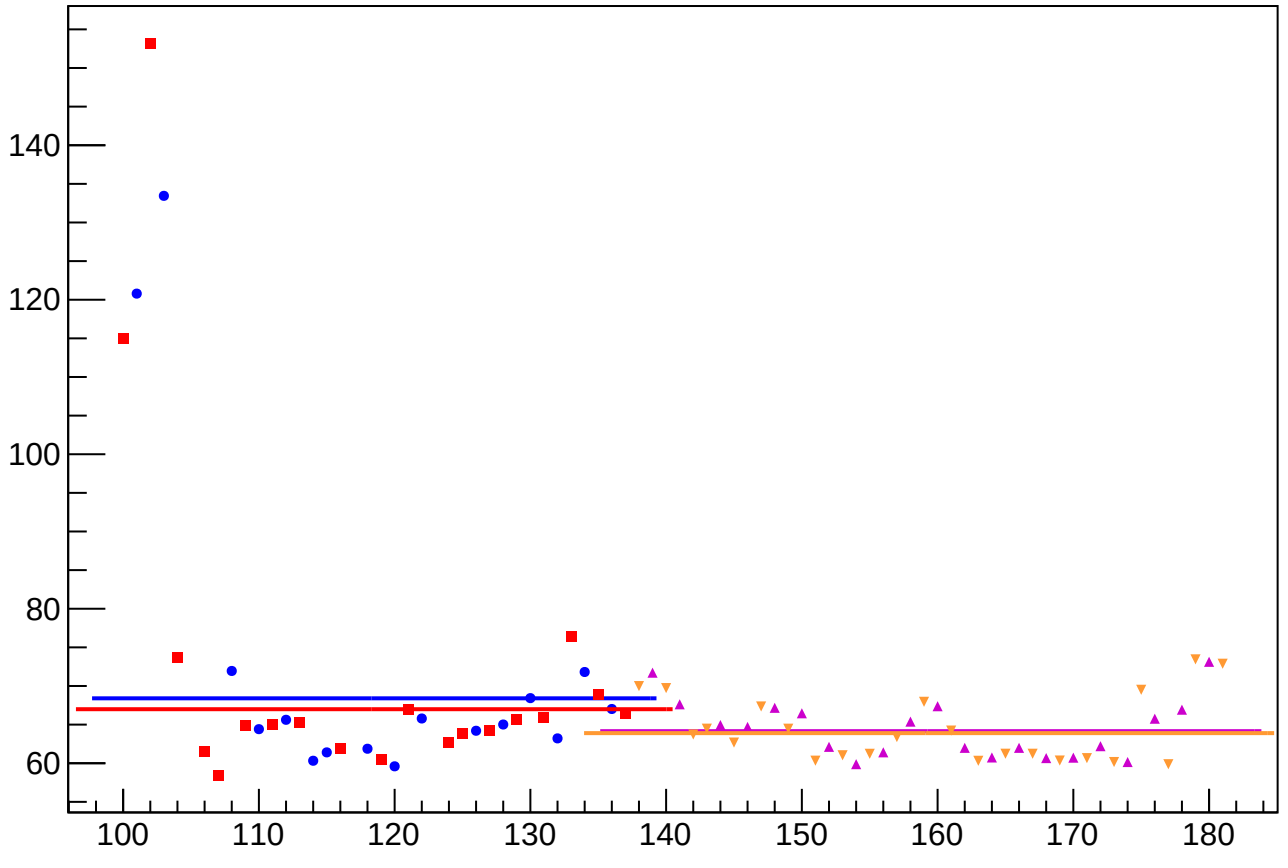
Left: 101.338+/-10.762 $\chi^2$/NDF: 58.5/43

Right: -44.472+/-18.092 $\chi^2$/NDF: 42.6/34

In: 56.739+/-13.312 $\chi^2$/NDF:63.5/36

Out: 69.285+/-12.861 $\chi^2$/NDF:85.1/41

All: 63.229+/-9.249 $\chi^2$/NDF: 149.1/78




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.9/15

Left Out: 63.898+/-0.011 $\chi^2$/NDF:146246.9/22

Right Out: 66.995+/-0.018 $\chi^2$/NDF: 484487.7/18

Left In: 64.152+/-0.011 $\chi^2$/NDF:106030.1/20

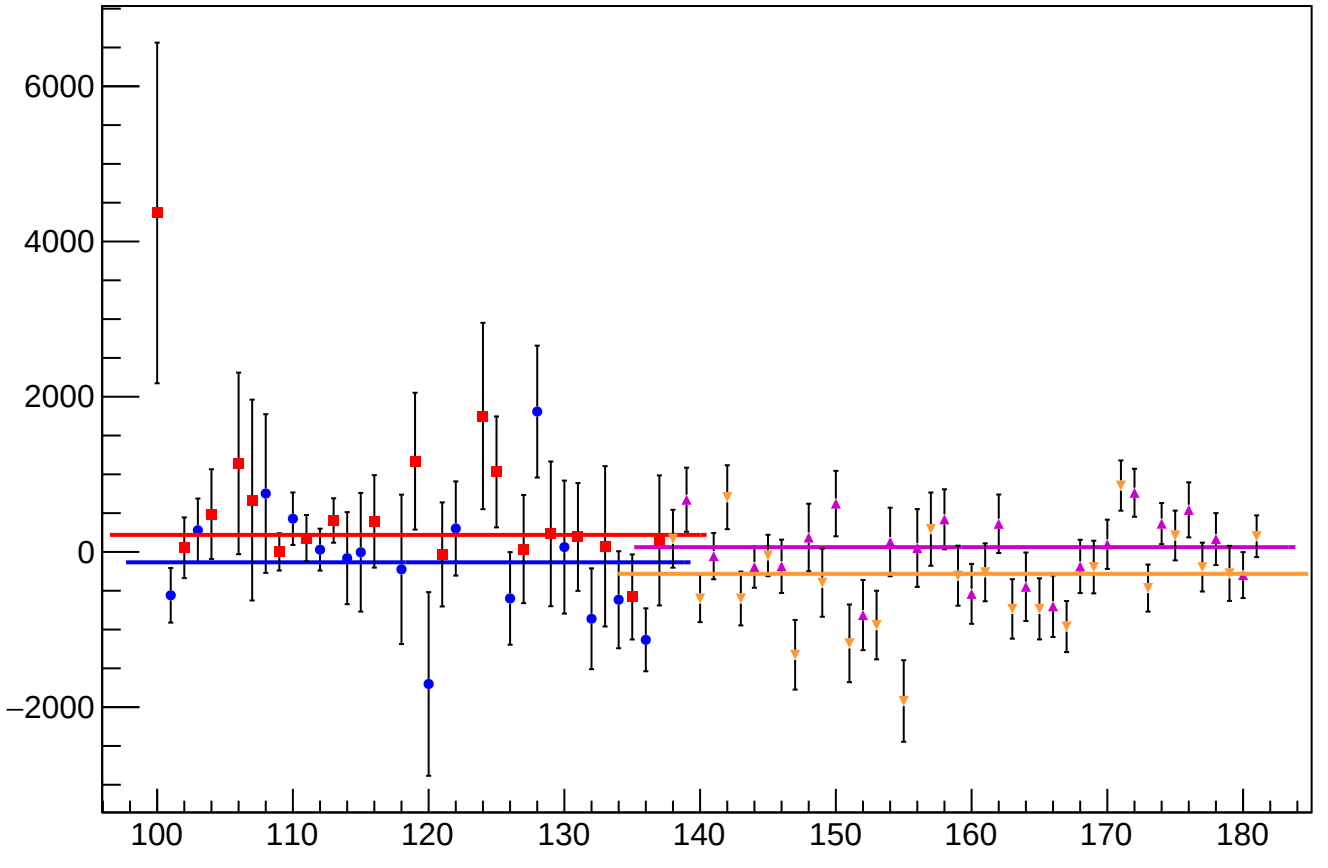
Left: 64.021+/-0.008 $\chi^2$/NDF: 252555.7/43

Right: 67.674+/-0.013 $\chi^2$/NDF: 1057072.9/34

In: 65.262+/-0.009 $\chi^2$/NDF:714934.7/36

Out: 64.708+/-0.009 $\chi^2$/NDF:653136.0/41

All: 64.976+/-0.007 $\chi^2$/NDF: 1369861.8/78




Right In: -133.587+/-125.904 $\chi^2$/NDF: 22.5/15

Left Out: -282.097+/-74.372 $\chi^2$/NDF:57.5/22

Right Out: 219.615+/-117.989 $\chi^2$/NDF: 12.5/18

Left In: 61.528+/-77.152 $\chi^2$/NDF:28.8/20

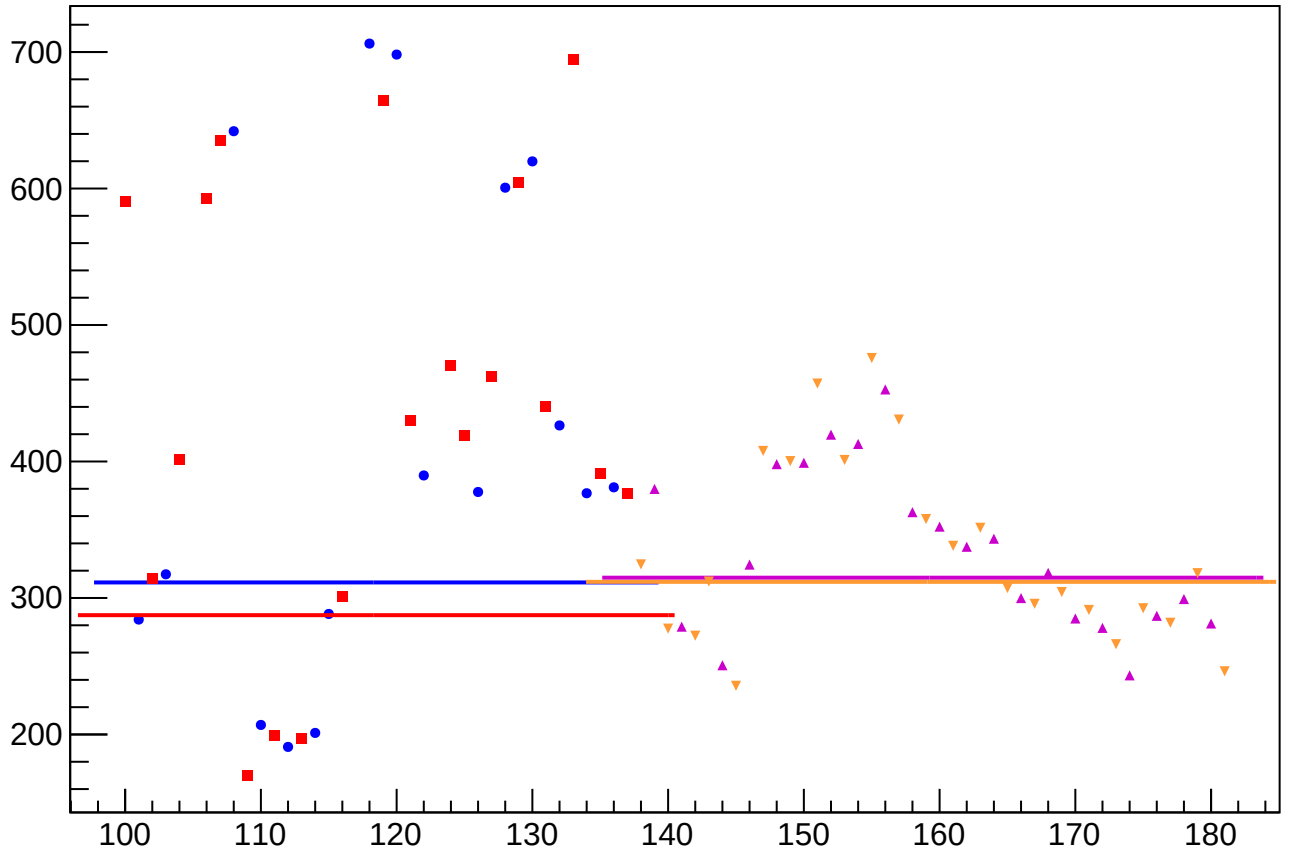
Left: -116.585+/-53.545 $\chi^2$/NDF: 96.6/43

Right: 54.464+/-86.093 $\chi^2$/NDF: 39.2/34

In: 8.263+/-65.783 $\chi^2$/NDF:53.0/36

Out: -139.438+/-62.916 $\chi^2$/NDF:83.0/41

All: -68.876+/-45.468 $\chi^2$/NDF: 138.6/78




Right In: 311.388+/-0.089 $\chi^2$/NDF: 2123799.0/15

Left Out: 311.826+/-0.053 $\chi^2$/NDF:1218559.6/22

Right Out: 287.413+/-0.083 $\chi^2$/NDF: 2690258.0/18

Left In: 314.868+/-0.055 $\chi^2$/NDF:1009281.3/20

Left: 313.291+/-0.038 $\chi^2$/NDF: 2229451.8/43

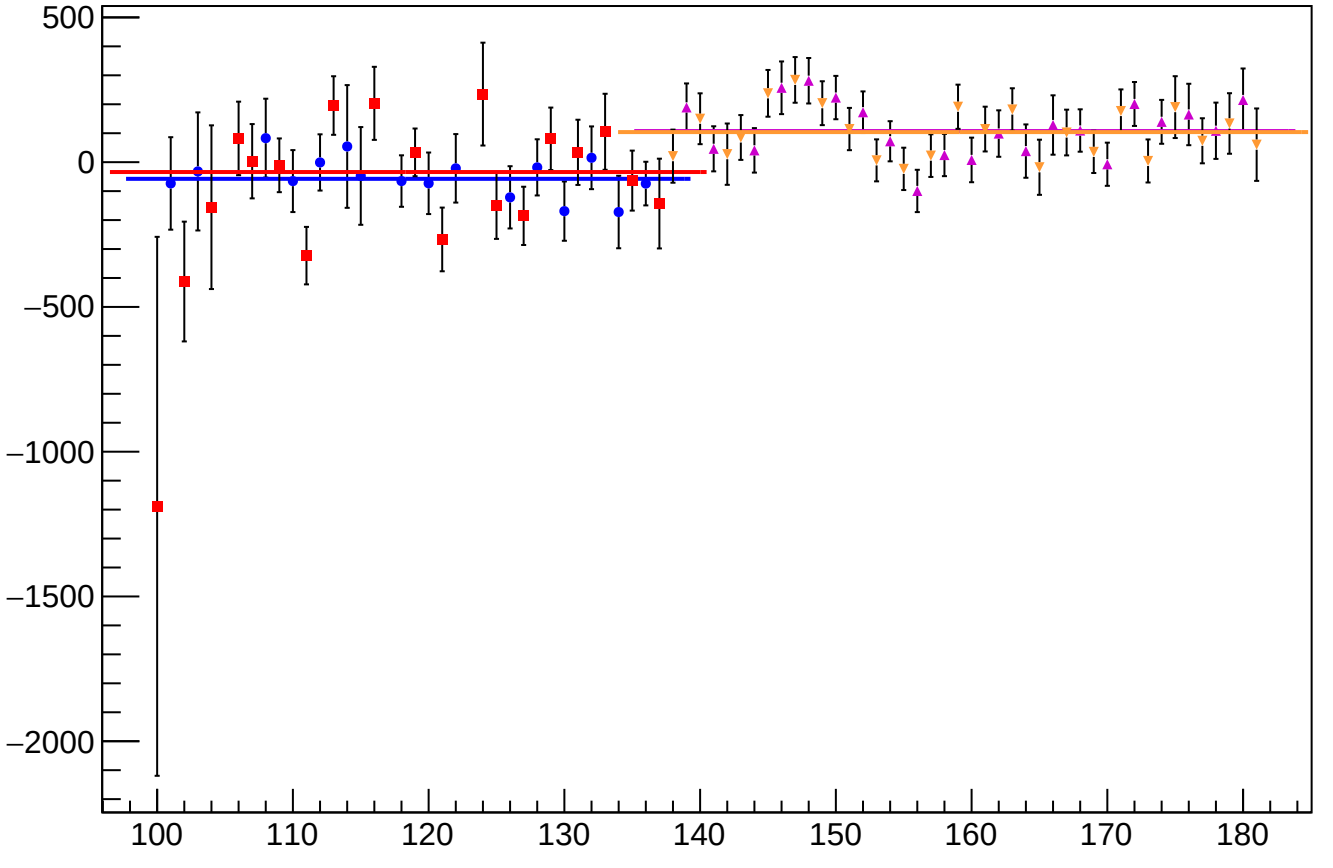
Right: 298.623+/-0.061 $\chi^2$/NDF: 4852668.8/34

In: 313.918+/-0.047 $\chi^2$/NDF:3134190.9/36

Out: 304.885+/-0.044 $\chi^2$/NDF:3970095.1/41

All: 309.200+/-0.032 $\chi^2$/NDF: 7123981.6/78

# dit_asym_sam7_mean vs Slug, Sign Corrected




Right In: -57.533+/-28.087 $\chi^2$/NDF: 4.9/15

Left Out: 103.916+/-16.916 $\chi^2$/NDF:26.2/22

Right Out: -34.033+/-27.398 $\chi^2$/NDF: 37.1/18

Left In: 107.427+/-17.543 $\chi^2$/NDF:30.3/20

Left: 105.608+/-12.177 $\chi^2$/NDF: 56.5/43

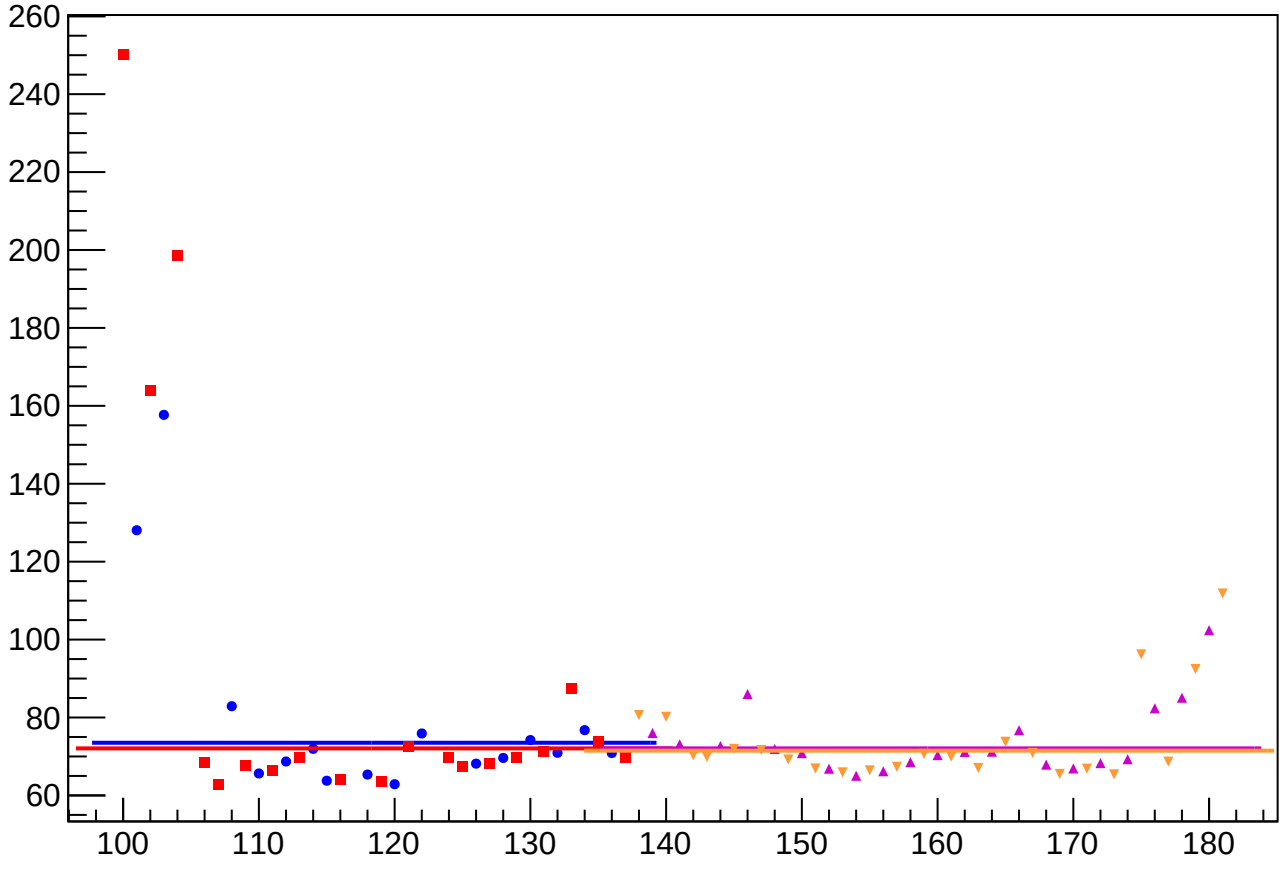
Right: -45.491+/-19.612 $\chi^2$/NDF: 42.4/34

In: 61.133+/-14.879 $\chi^2$/NDF:60.0/36

Out: 65.842+/-14.394 $\chi^2$/NDF:81.7/41

All: 63.566+/-10.345 $\chi^2$/NDF: 141.8/78

# dit_asym_sam7_rms vs Slug, Sign Corrected




Right In: 73.519+/-0.020 $\chi^2$/NDF: 656847.5/15

Left Out: 71.489+/-0.012 $\chi^2$/NDF:520403.8/22

Right Out: 72.074+/-0.019 $\chi^2$/NDF: 958495.0/18

Left In: 72.074+/-0.012 $\chi^2$/NDF:341128.6/20

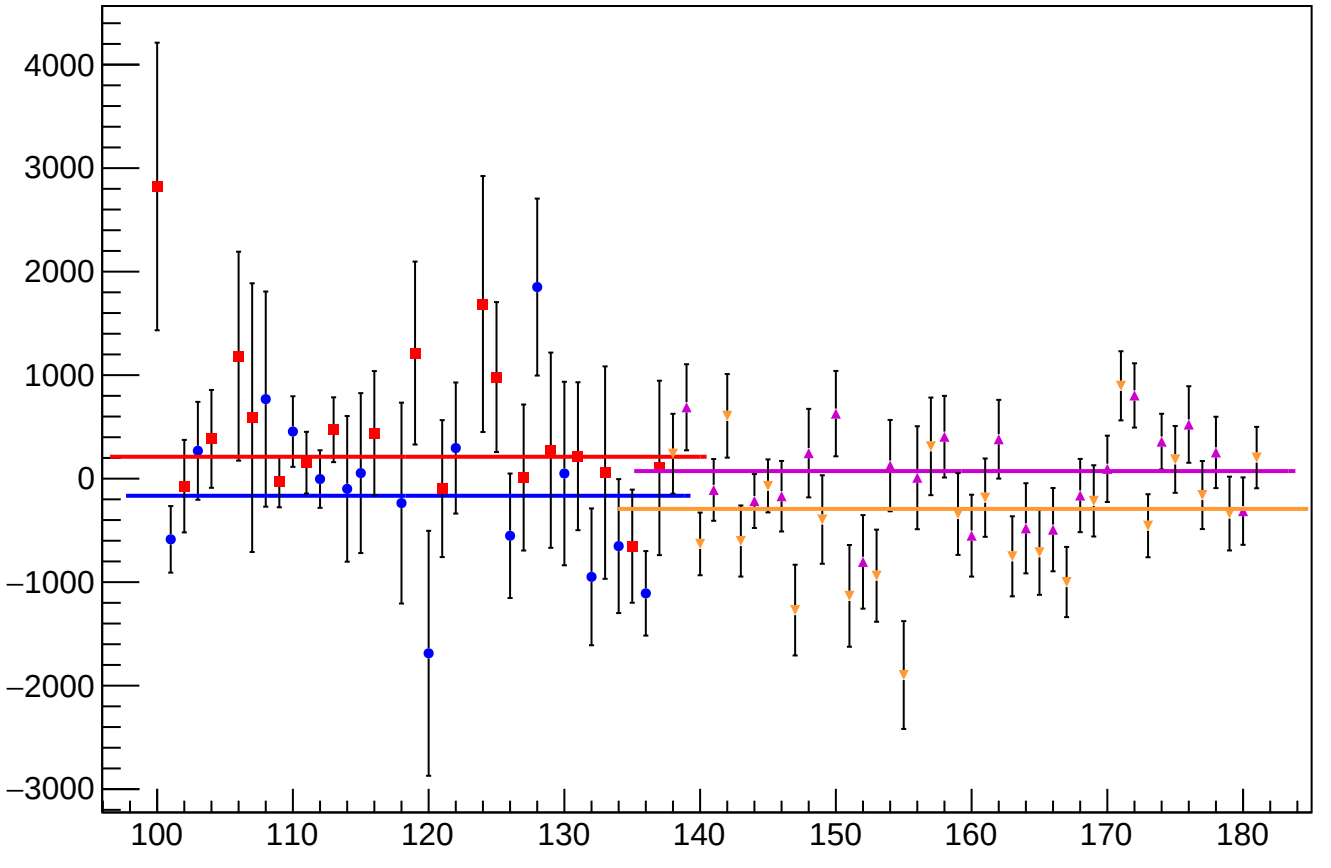
Left: 71.771+/-0.009 $\chi^2$/NDF: 862686.1/43

Right: 72.779+/-0.014 $\chi^2$/NDF: 1618055.3/34

In: 72.480+/-0.011 $\chi^2$/NDF:1001783.1/36

Out: 71.650+/-0.010 $\chi^2$/NDF:1479559.1/41

All: 72.051+/-0.007 $\chi^2$/NDF: 2484551.7/78




Right In: -165.500+/-128.438 $\chi^2$/NDF: 22.6/15

Left Out: -292.434+/-75.273 $\chi^2$/NDF:56.0/22

Right Out: 211.347+/-120.122 $\chi^2$/NDF: 13.6/18

Left In: 72.887+/-78.083 $\chi^2$/NDF:27.8/20

Left: -116.463+/-54.192 $\chi^2$/NDF: 95.1/43

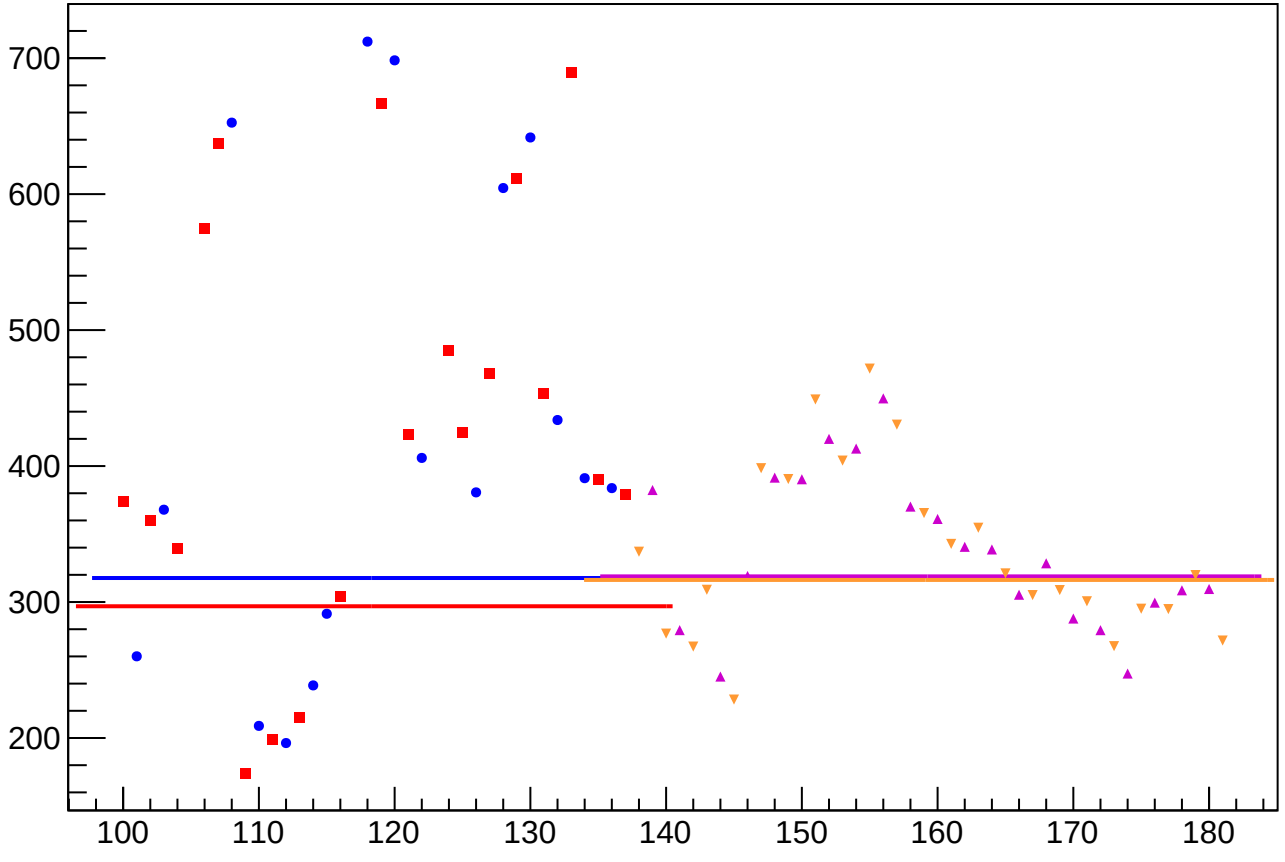
Right: 35.518+/-87.732 $\chi^2$/NDF: 40.8/34

In: 8.557+/-66.720 $\chi^2$/NDF:52.9/36

Out: -150.388+/-63.785 $\chi^2$/NDF:82.2/41

All: -74.489+/-46.105 $\chi^2$/NDF: 138.1/78

# asym_sam7_dit_correction_rms vs Slug, Sign Corrected




Right In: 317.664+/-0.091 $\chi^2$/NDF: 2136192.8/15

Left Out: 316.248+/-0.053 $\chi^2$/NDF:1137383.8/22

Right Out: 296.888+/-0.085 $\chi^2$/NDF: 2541040.3/18

Left In: 318.865+/-0.055 $\chi^2$/NDF:960681.8/20

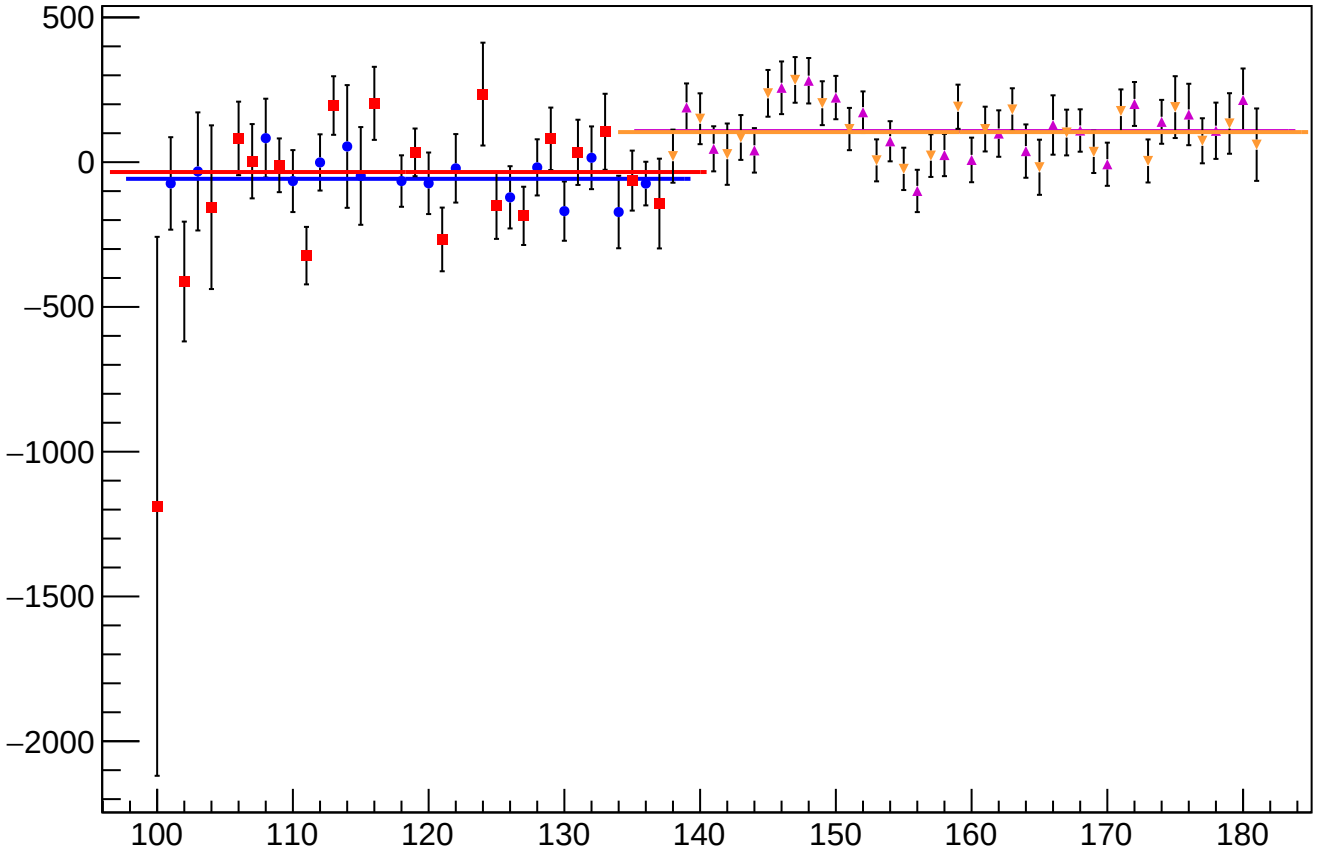
Left: 317.509+/-0.038 $\chi^2$/NDF: 2099230.4/43

Right: 306.582+/-0.062 $\chi^2$/NDF: 4705147.7/34

In: 318.541+/-0.047 $\chi^2$/NDF:3097002.3/36

Out: 310.789+/-0.045 $\chi^2$/NDF:3715726.4/41

All: 314.491+/-0.033 $\chi^2$/NDF: 6826834.7/78




Right In: -57.532+/-28.087 $\chi^2$/NDF: 4.9/15

Left Out: 103.916+/-16.916 $\chi^2$/NDF:26.2/22

Right Out: -34.034+/-27.398 $\chi^2$/NDF: 37.1/18

Left In: 107.427+/-17.543 $\chi^2$/NDF:30.3/20

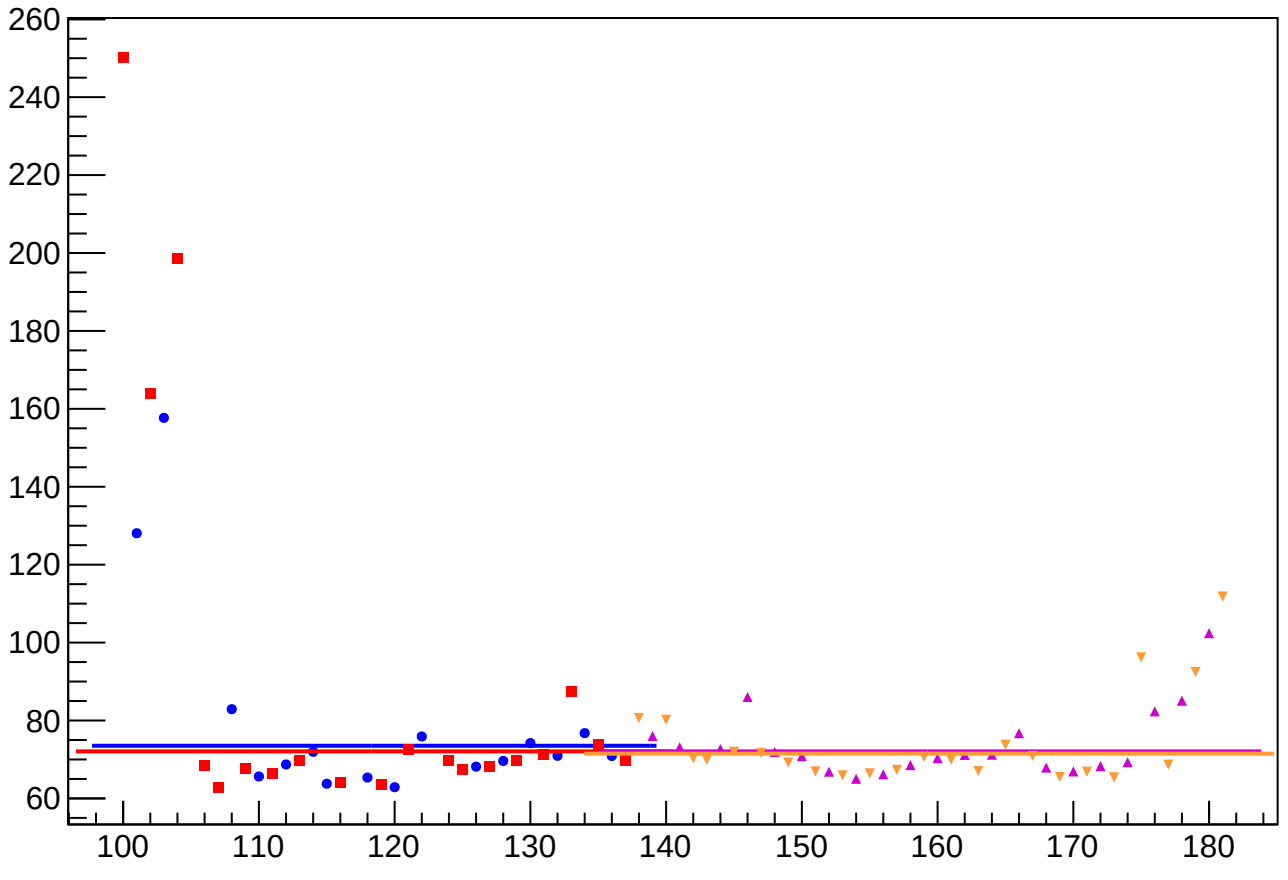
Left: 105.607+/-12.177 $\chi^2$/NDF: 56.5/43

Right: -45.491+/-19.612 $\chi^2$/NDF: 42.4/34

In: 61.132+/-14.879 $\chi^2$/NDF:60.0/36

Out: 65.842+/-14.394 $\chi^2$/NDF:81.7/41

All: 63.565+/-10.345 $\chi^2$/NDF: 141.8/78




Right In: 73.519+/-0.020 $\chi^2$/NDF: 656849.2/15

Left Out: 71.489+/-0.012 $\chi^2$/NDF:520401.7/22

Right Out: 72.074+/-0.019 $\chi^2$/NDF: 958496.3/18

Left In: 72.074+/-0.012 $\chi^2$/NDF:341129.1/20

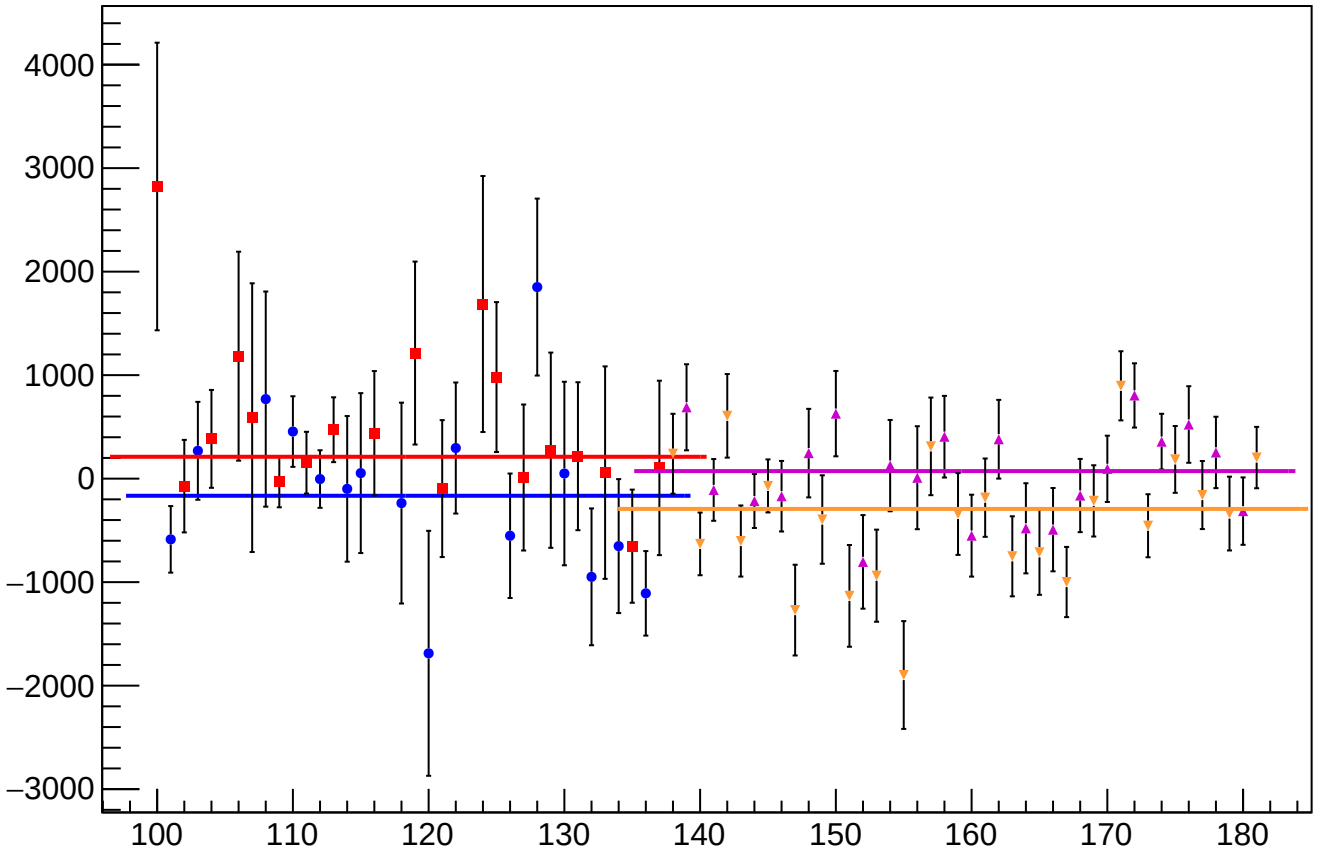
Left: 71.771+/-0.009 $\chi^2$/NDF: 862684.6/43

Right: 72.778+/-0.014 $\chi^2$/NDF: 1618058.1/34

In: 72.480+/-0.011 $\chi^2$/NDF:1001784.4/36

Out: 71.650+/-0.010 $\chi^2$/NDF:1479558.0/41

All: 72.051+/-0.007 $\chi^2$/NDF: 2484552.0/78




Right In: -165.498+/-128.437 $\chi^2$/NDF: 22.6/15

Left Out: -292.434+/-75.273 $\chi^2$/NDF:56.0/22

Right Out: 211.347+/-120.121 $\chi^2$/NDF: 13.6/18

Left In: 72.887+/-78.083 $\chi^2$/NDF:27.8/20

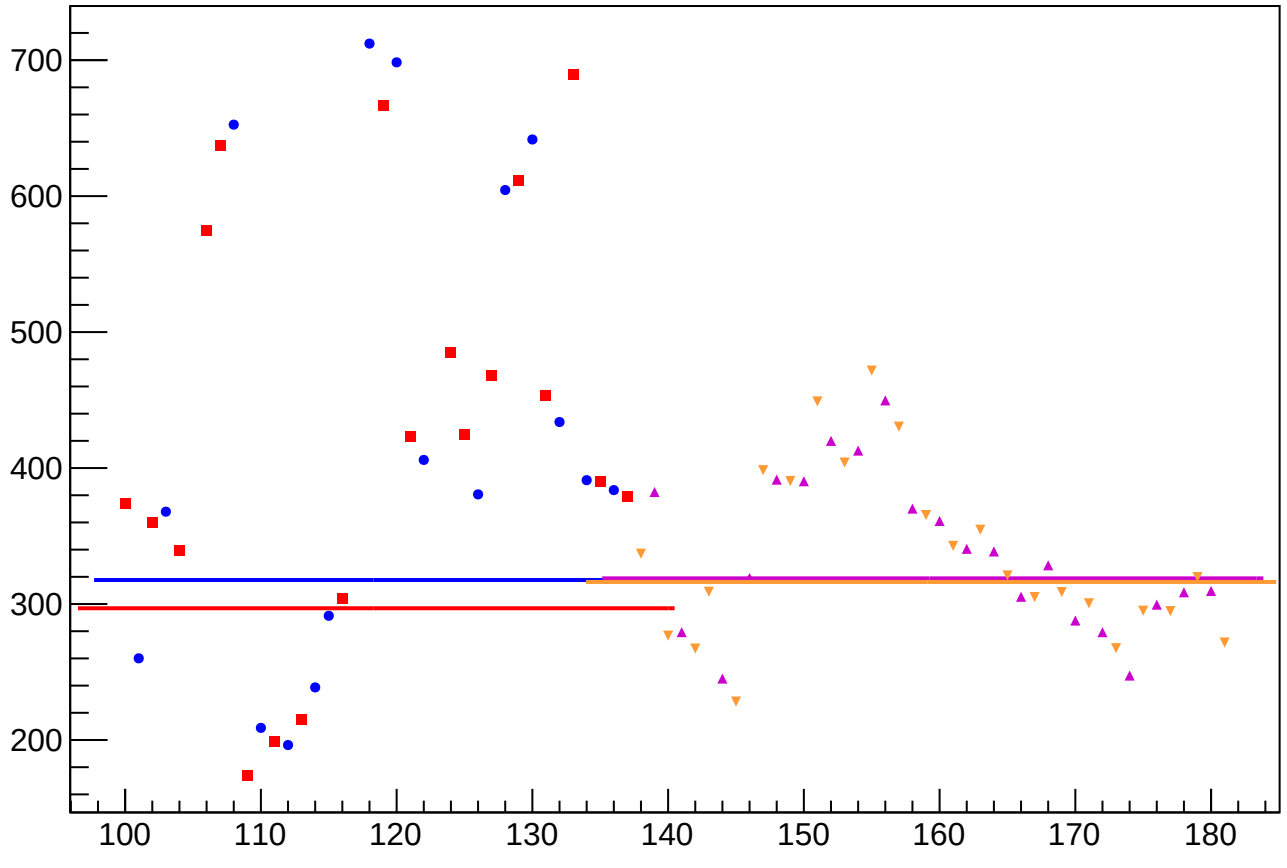
Left: -116.464+/-54.192 $\chi^2$/NDF: 95.1/43

Right: 35.517+/-87.731 $\chi^2$/NDF: 40.8/34

In: 8.556+/-66.720 $\chi^2$/NDF:52.9/36

Out: -150.387+/-63.784 $\chi^2$/NDF:82.2/41

All: -74.489+/-46.105 $\chi^2$/NDF: 138.1/78




Right In: 317.661+/-0.091 $\chi^2$/NDF: 2136224.4/15

Left Out: 316.248+/-0.053 $\chi^2$/NDF:1137389.4/22

Right Out: 296.887+/-0.085 $\chi^2$/NDF: 2541051.2/18

Left In: 318.866+/-0.055 $\chi^2$/NDF:960679.3/20

Left: 317.509+/-0.038 $\chi^2$/NDF: 2099233.7/43

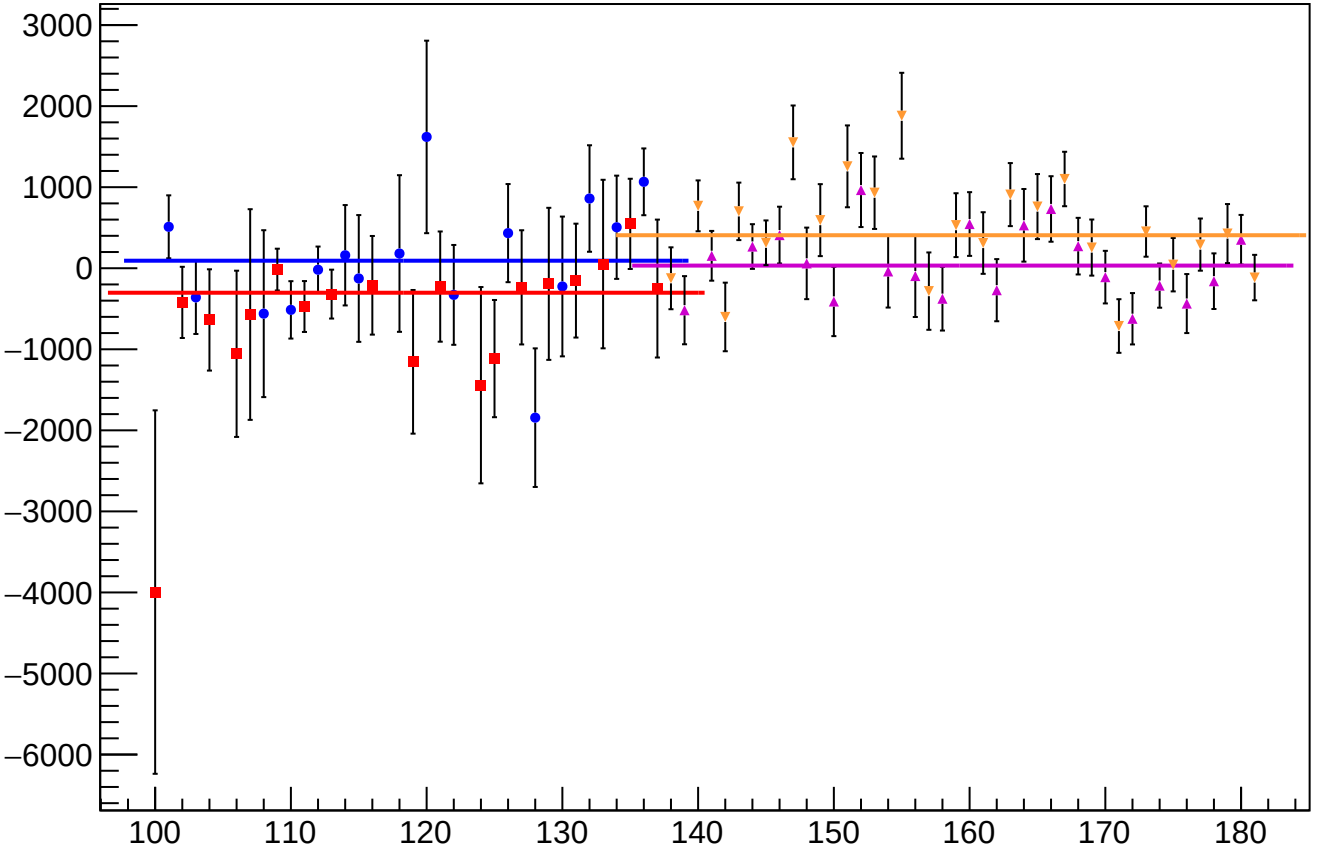
Right: 306.580+/-0.062 $\chi^2$/NDF: 4705187.9/34

In: 318.541+/-0.047 $\chi^2$/NDF:3097032.0/36

Out: 310.789+/-0.045 $\chi^2$/NDF:3715749.1/41

All: 314.490+/-0.033 $\chi^2$/NDF: 6826887.1/78

# asym_sam7_mean vs Slug, Sign Corrected




Right In: 92.803+/-131.927 $\chi^2$/NDF: 20.8/15

Left Out: 407.173+/-76.142 $\chi^2$/NDF:53.7/22

Right Out: -302.273+/-123.916 $\chi^2$/NDF: 10.8/18

Left In: 32.676+/-78.919 $\chi^2$/NDF:25.5/20

Left: 226.628+/-54.796 $\chi^2$/NDF: 90.9/43

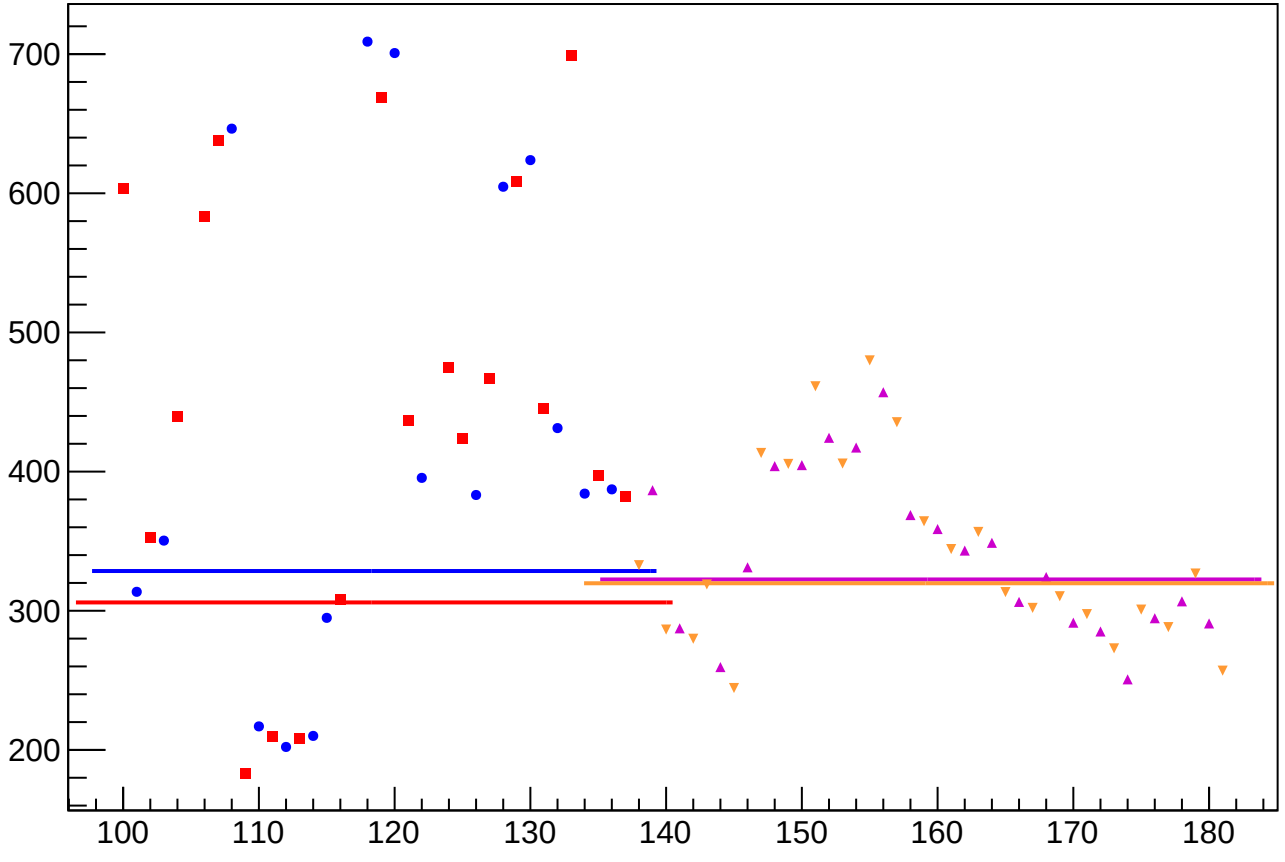
Right: -117.093+/-90.322 $\chi^2$/NDF: 36.4/34

In: 48.522+/-67.726 $\chi^2$/NDF:46.5/36

Out: 212.727+/-64.874 $\chi^2$/NDF:88.3/41

All: 134.155+/-46.849 $\chi^2$/NDF: 137.9/78

# asym_sam7_rms vs Slug, Sign Corrected




Right In: 328.567+/-0.093 $\chi^2$/NDF: 1958873.4/15

Left Out: 319.762+/-0.054 $\chi^2$/NDF:1122751.6/22

Right Out: 305.988+/-0.088 $\chi^2$/NDF: 2527463.5/18

Left In: 322.496+/-0.056 $\chi^2$/NDF:933986.2/20

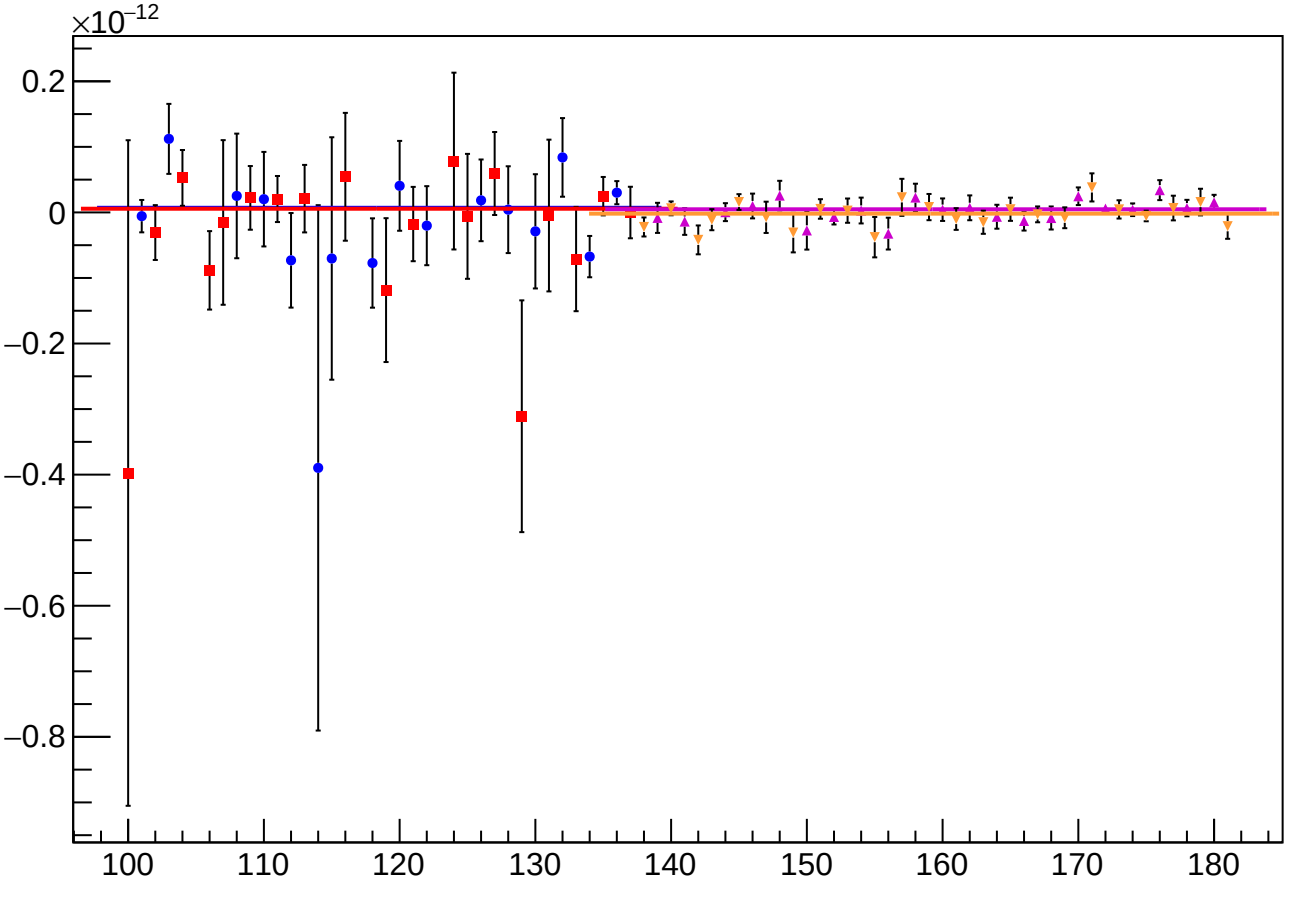
Left: 321.080+/-0.039 $\chi^2$/NDF: 2057981.0/43

Right: 316.571+/-0.064 $\chi^2$/NDF: 4517458.9/34

In: 324.096+/-0.048 $\chi^2$/NDF:2895978.0/36

Out: 315.987+/-0.046 $\chi^2$/NDF:3668152.9/41

All: 319.867+/-0.033 $\chi^2$/NDF: 6579083.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:19.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:16.7/20

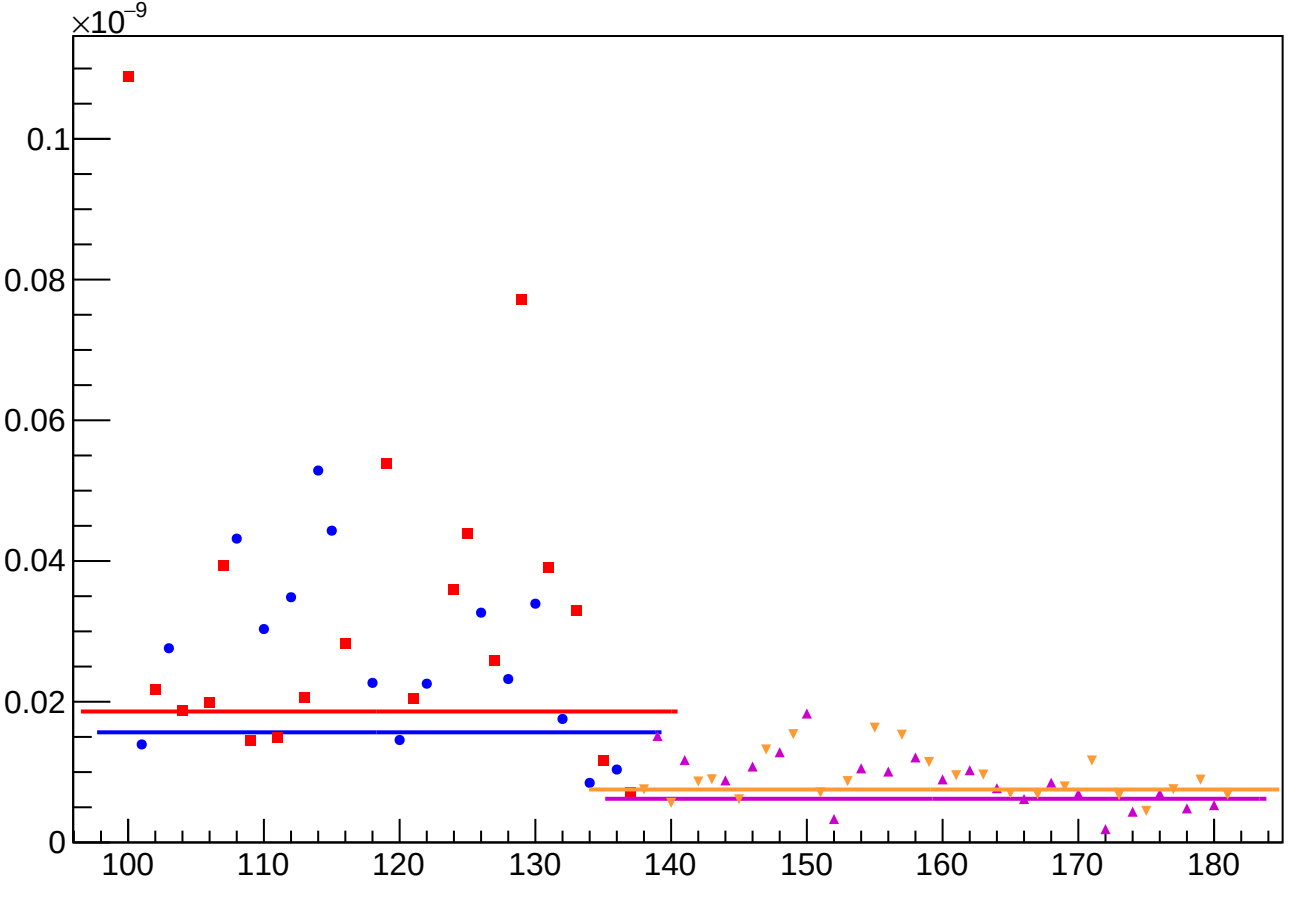
Left: 0.000+/-0.000 $\chi^2$/NDF: 37.8/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:34.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:32.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 68.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1164380.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1205724.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1228542.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2739180.3/20

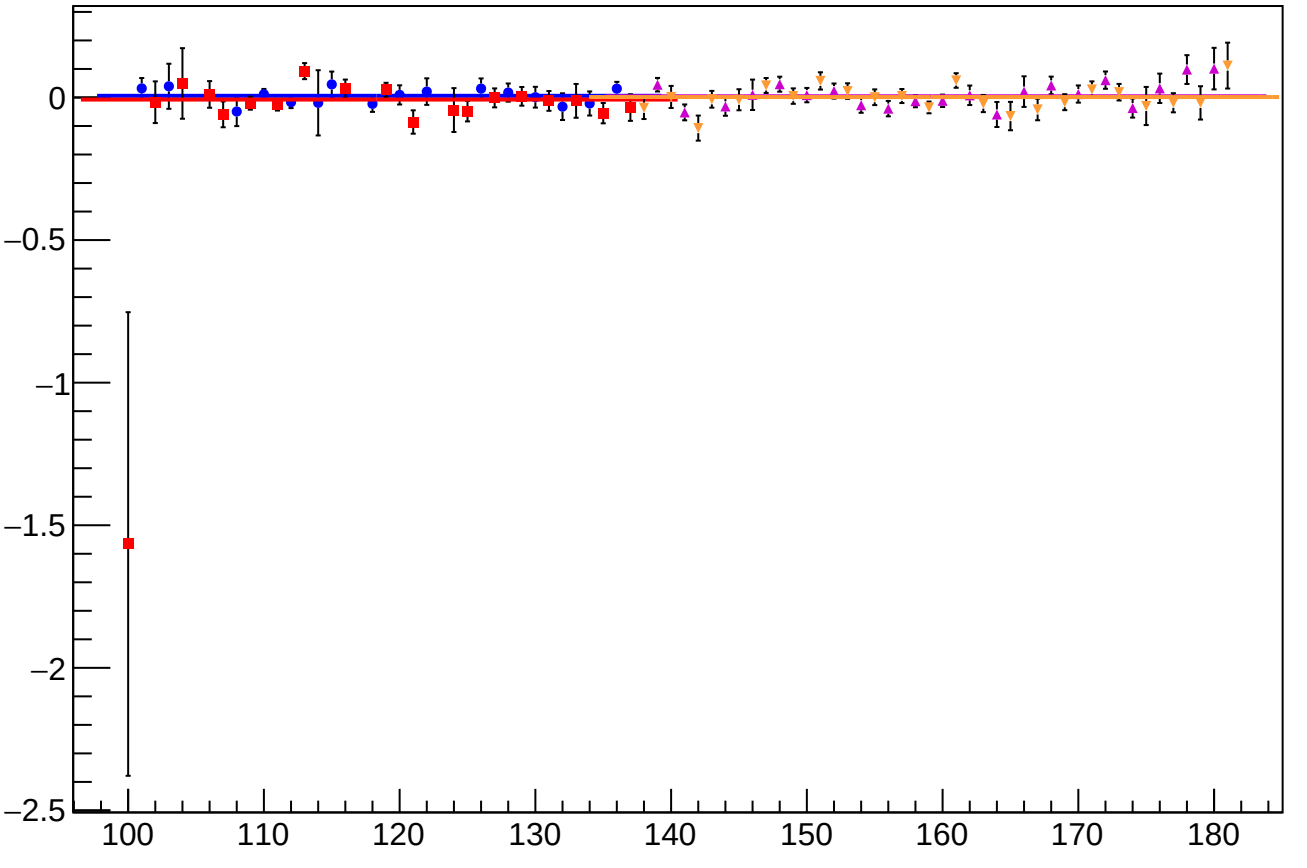
Left: 0.000+/-0.000 $\chi^2$/NDF: 4115787.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 2454460.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5281122.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:3835004.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9293196.8/78




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: 0.001+/-0.007 $\chi^2$/NDF:29.9/22

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: 0.004+/-0.007 $\chi^2$/NDF:30.7/20

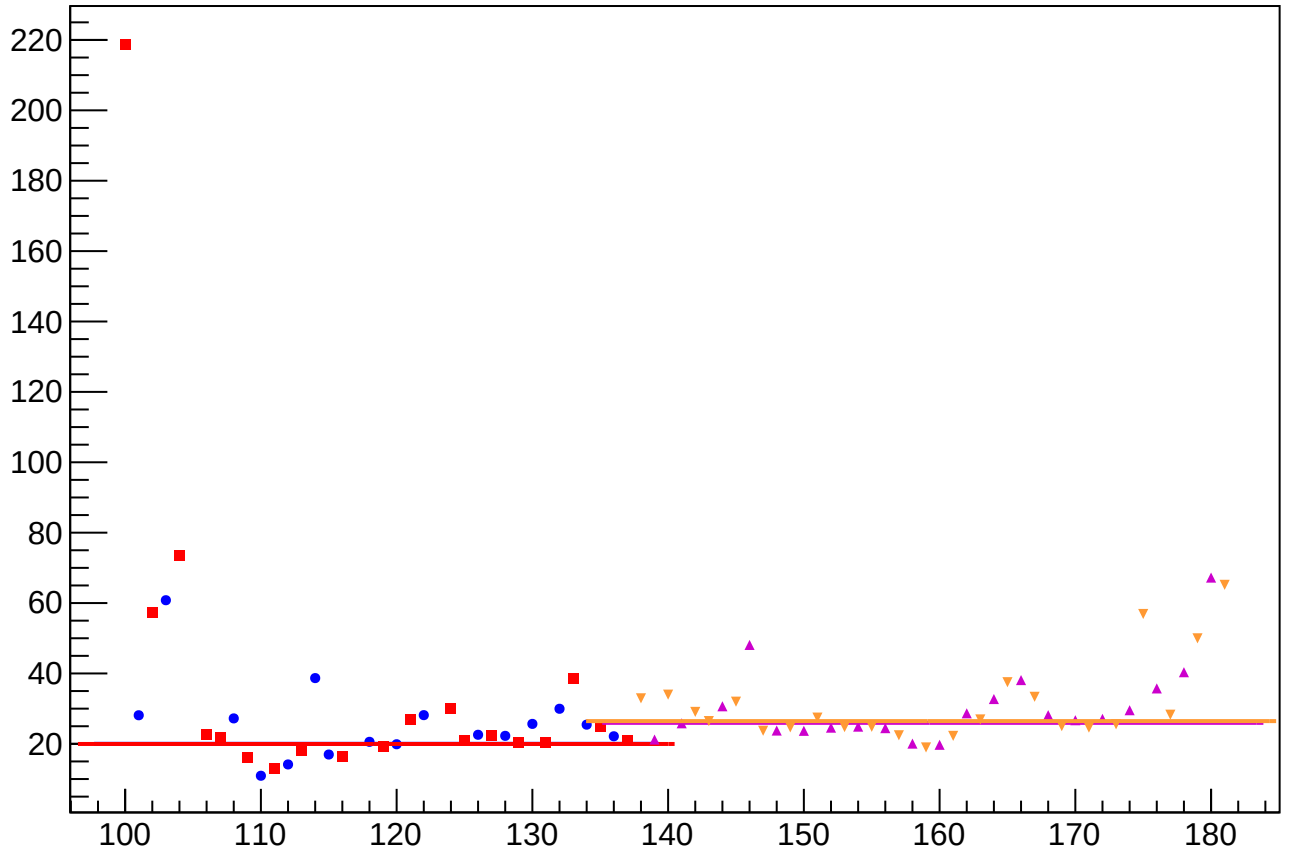
Left: 0.003+/-0.005 $\chi^2$/NDF: 60.7/43

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.005+/-0.005 $\chi^2$/NDF:38.6/36

Out: -0.002+/-0.005 $\chi^2$/NDF:60.4/41

All: 0.001+/-0.004 $\chi^2$/NDF: 99.9/78




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641371.9/15

Left Out: 26.458+/-0.005 $\chi^2$/NDF:1990186.0/22

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716895.2/18

Left In: 25.966+/-0.005 $\chi^2$/NDF:1902720.1/20

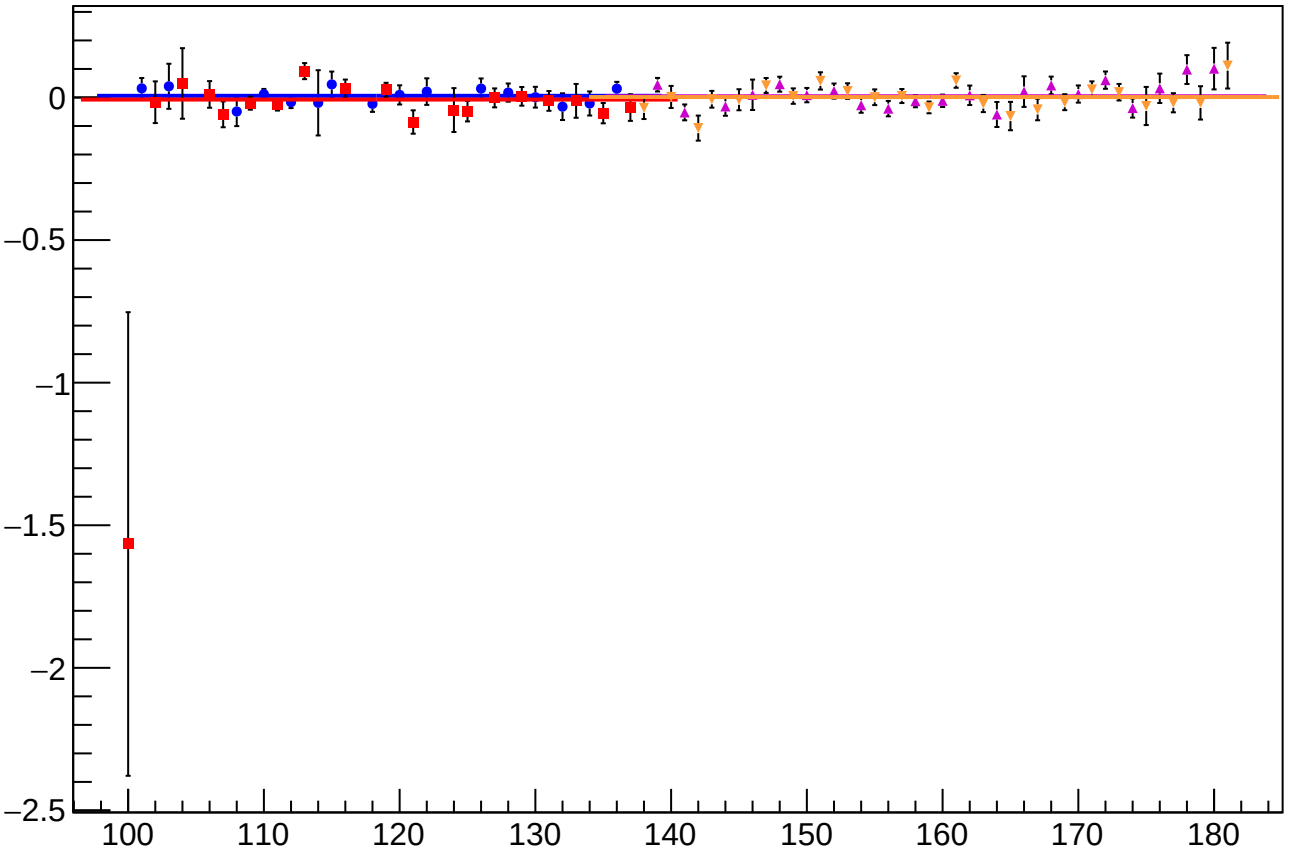
Left: 26.216+/-0.003 $\chi^2$/NDF: 3898450.1/43

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358287.6/34

In: 23.591+/-0.004 $\chi^2$/NDF:4186283.8/36

Out: 23.887+/-0.004 $\chi^2$/NDF:4485069.9/41

All: 23.741+/-0.003 $\chi^2$/NDF: 8674706.9/78




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: 0.001+/-0.007 $\chi^2$/NDF:29.9/22

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: 0.004+/-0.007 $\chi^2$/NDF:30.7/20

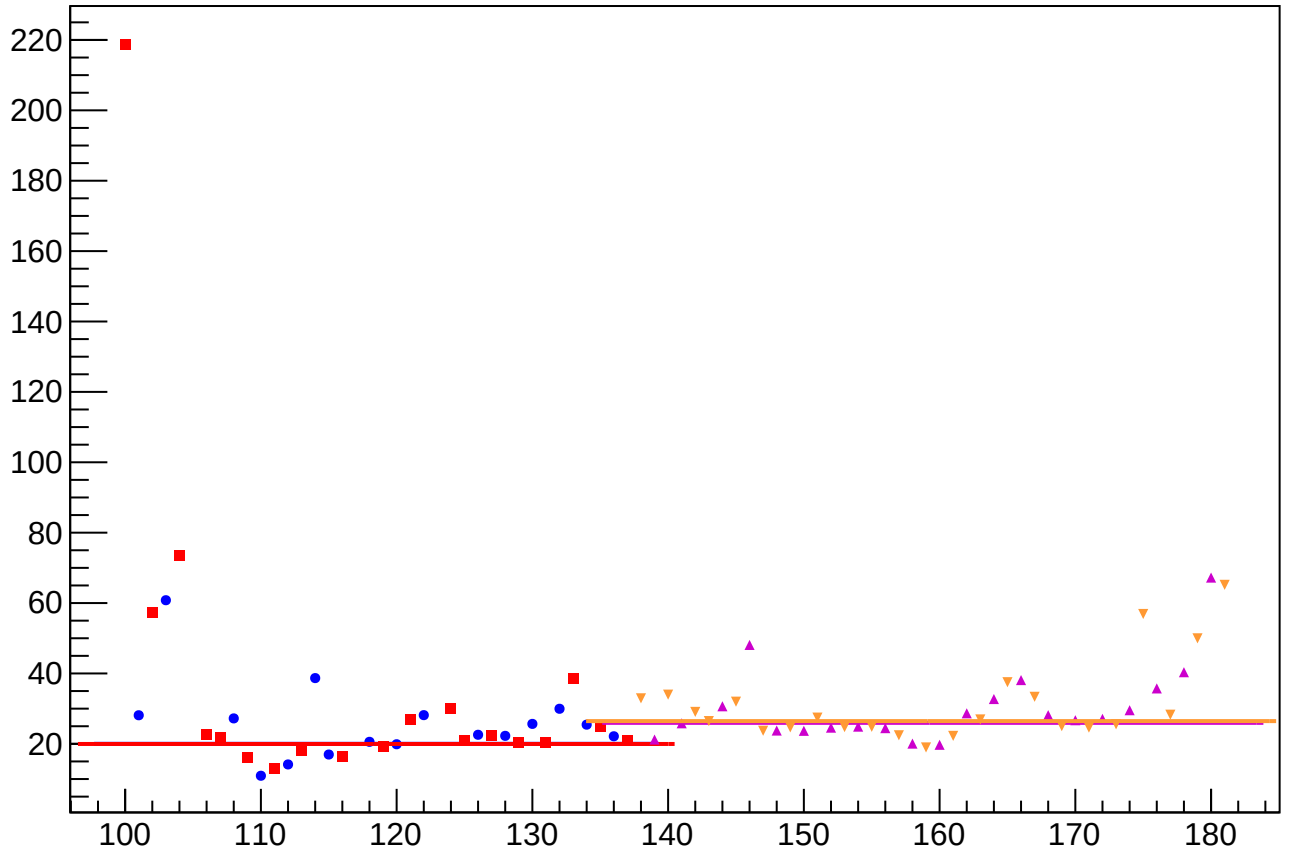
Left: 0.003+/-0.005 $\chi^2$/NDF: 60.7/43

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.005+/-0.005 $\chi^2$/NDF:38.6/36

Out: -0.002+/-0.005 $\chi^2$/NDF:60.4/41

All: 0.001+/-0.004 $\chi^2$/NDF: 99.9/78




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641371.9/15

Left Out: 26.458+/-0.005 $\chi^2$/NDF:1990186.0/22

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716895.2/18

Left In: 25.966+/-0.005 $\chi^2$/NDF:1902720.1/20

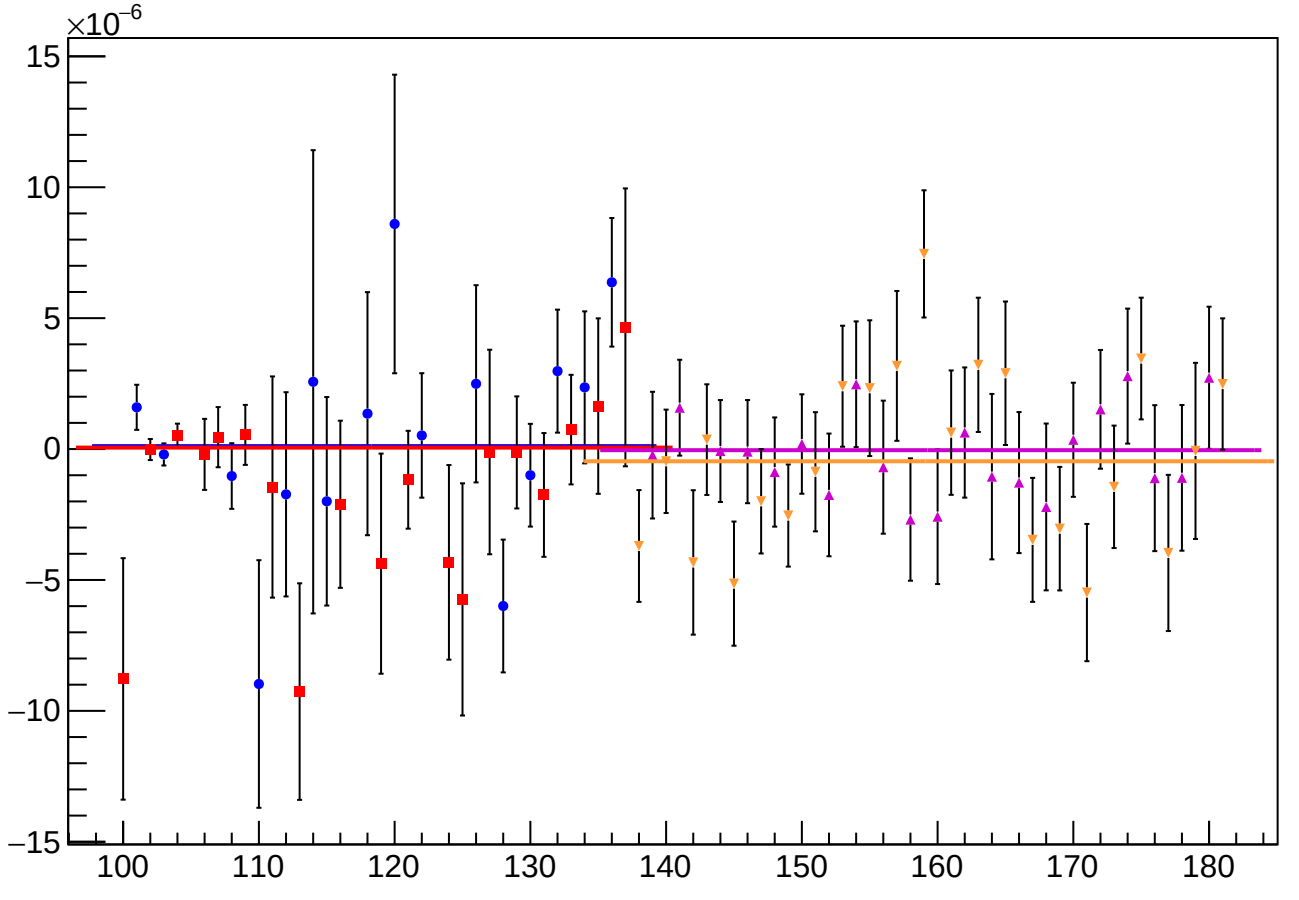
Left: 26.216+/-0.003 $\chi^2$/NDF: 3898450.1/43

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358287.6/34

In: 23.591+/-0.004 $\chi^2$/NDF:4186283.8/36

Out: 23.887+/-0.004 $\chi^2$/NDF:4485069.9/41

All: 23.741+/-0.003 $\chi^2$/NDF: 8674706.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:41.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:8.8/20

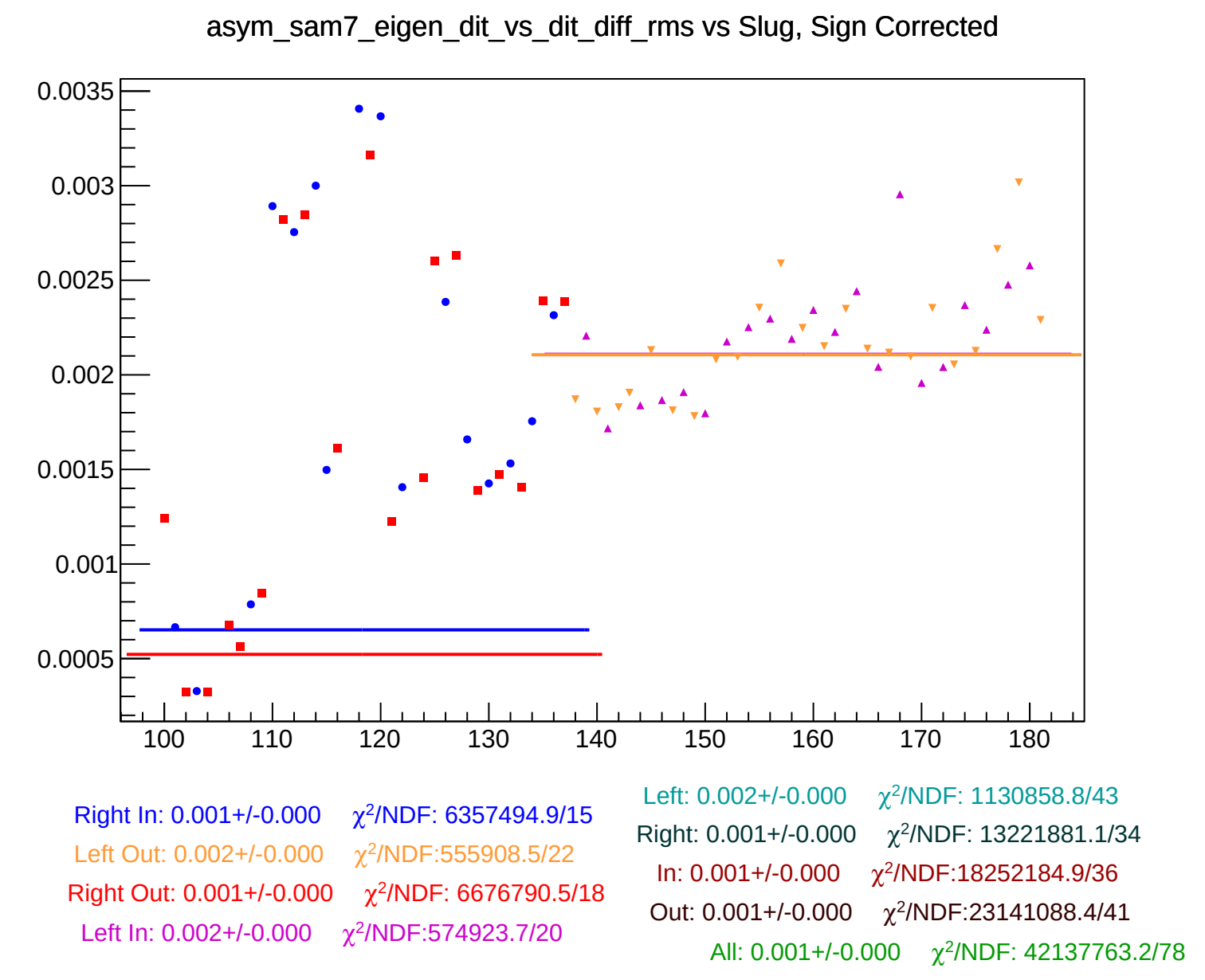
Left: -0.000+/-0.000 $\chi^2$/NDF: 50.2/43

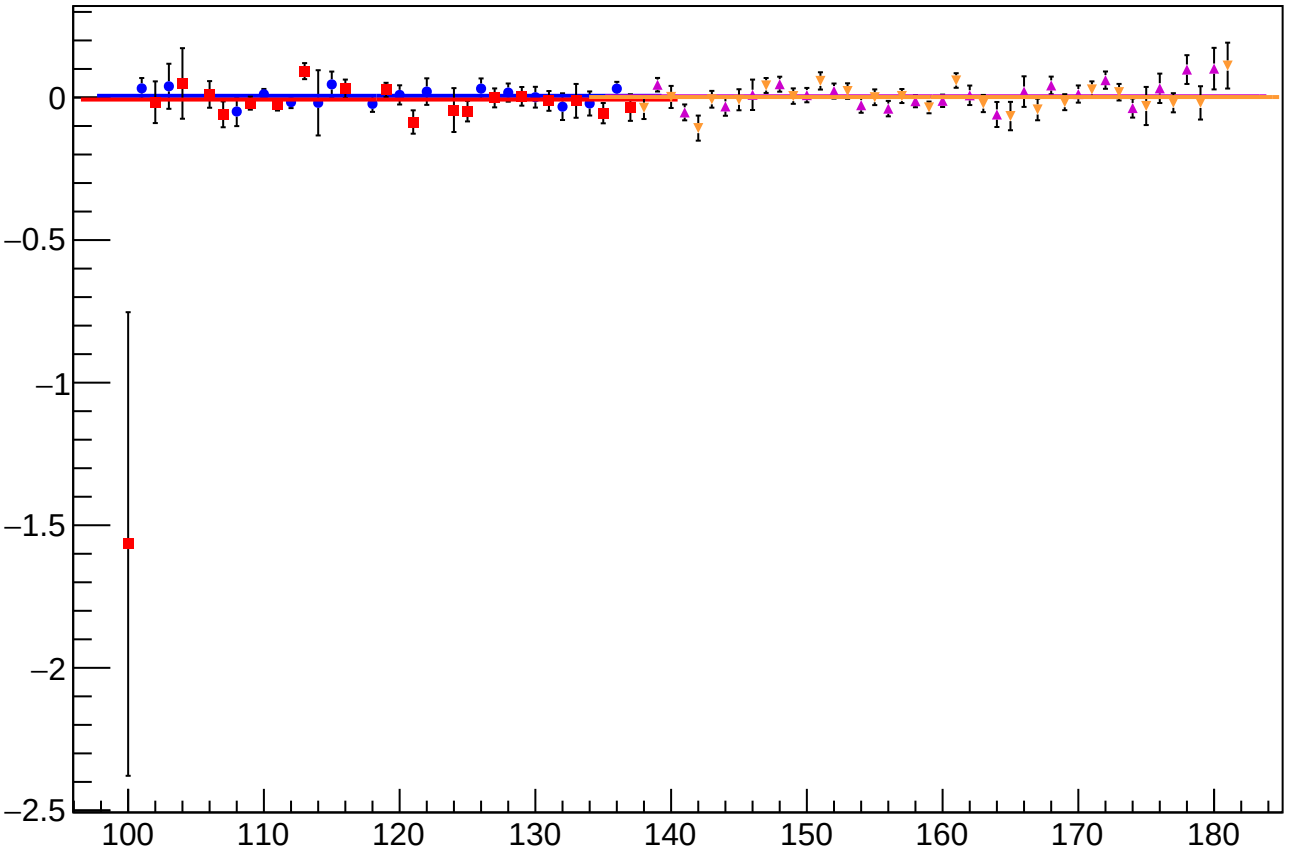
Right: 0.000+/-0.000 $\chi^2$/NDF: 43.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:34.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:59.0/41

All: -0.000+/-0.000 $\chi^2$/NDF: 94.0/78


asym_sam7_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
100
110
120
130
140
150
160
170
180
Right In: 0.001+/-0.000 χ²/NDF: 6357494.9/15
Left Out: 0.002+/-0.000 χ²/NDF:555908.5/22
Right Out: 0.001+/-0.000 χ²/NDF: 6676790.5/18
Left In: 0.002+/-0.000 χ²/NDF:574923.7/20
Left: 0.002+/-0.000 χ²/NDF: 1130858.8/43
Right: 0.001+/-0.000 χ²/NDF: 13221881.1/34
In: 0.001+/-0.000 χ²/NDF:18252184.9/36
Out: 0.001+/-0.000 χ²/NDF:23141088.4/41
All: 0.001+/-0.000 χ²/NDF: 42137763.2/78




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: 0.001+/-0.007 $\chi^2$/NDF:29.9/22

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: 0.004+/-0.007 $\chi^2$/NDF:30.7/20

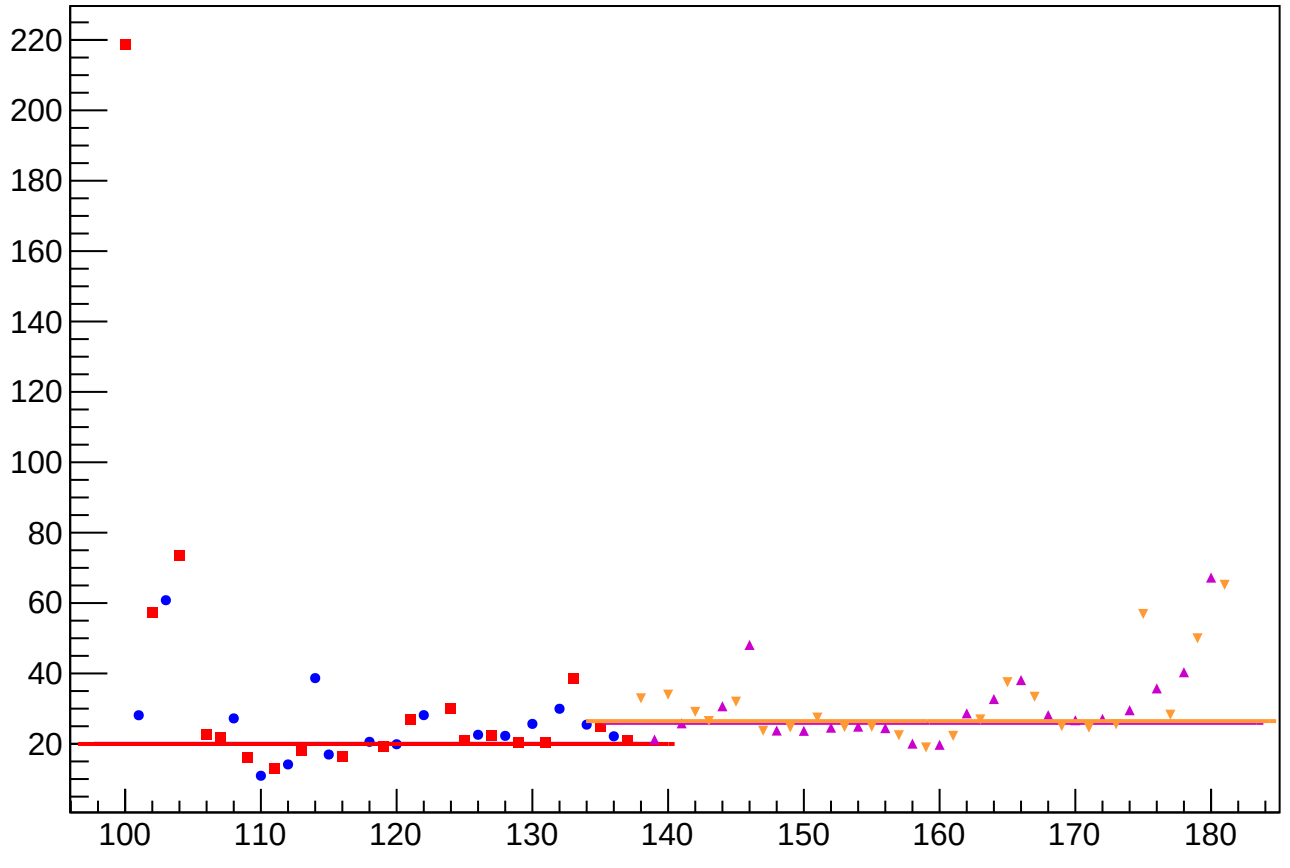
Left: 0.003+/-0.005 $\chi^2$/NDF: 60.7/43

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.005+/-0.005 $\chi^2$/NDF:38.6/36

Out: -0.002+/-0.005 $\chi^2$/NDF:60.4/41

All: 0.001+/-0.004 $\chi^2$/NDF: 99.9/78




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641197.3/15

Left Out: 26.458+/-0.005 $\chi^2$/NDF:1990235.1/22

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716830.0/18

Left In: 25.966+/-0.005 $\chi^2$/NDF:1902791.6/20

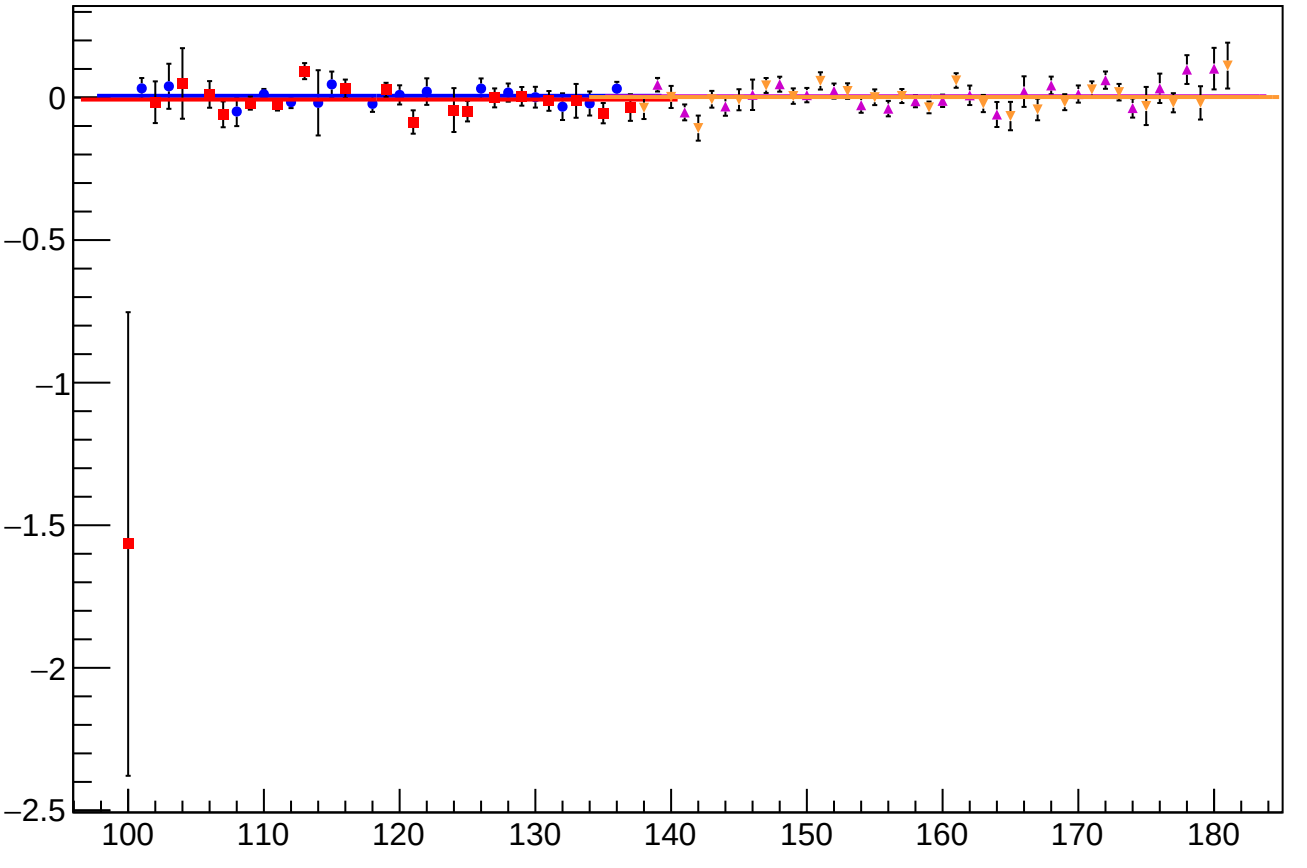
Left: 26.216+/-0.003 $\chi^2$/NDF: 3898571.5/43

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358048.3/34

In: 23.591+/-0.004 $\chi^2$/NDF:4186063.2/36

Out: 23.887+/-0.004 $\chi^2$/NDF:4485022.8/41

All: 23.741+/-0.003 $\chi^2$/NDF: 8674435.7/78




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: 0.001+/-0.007 $\chi^2$/NDF:29.9/22

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: 0.004+/-0.007 $\chi^2$/NDF:30.7/20

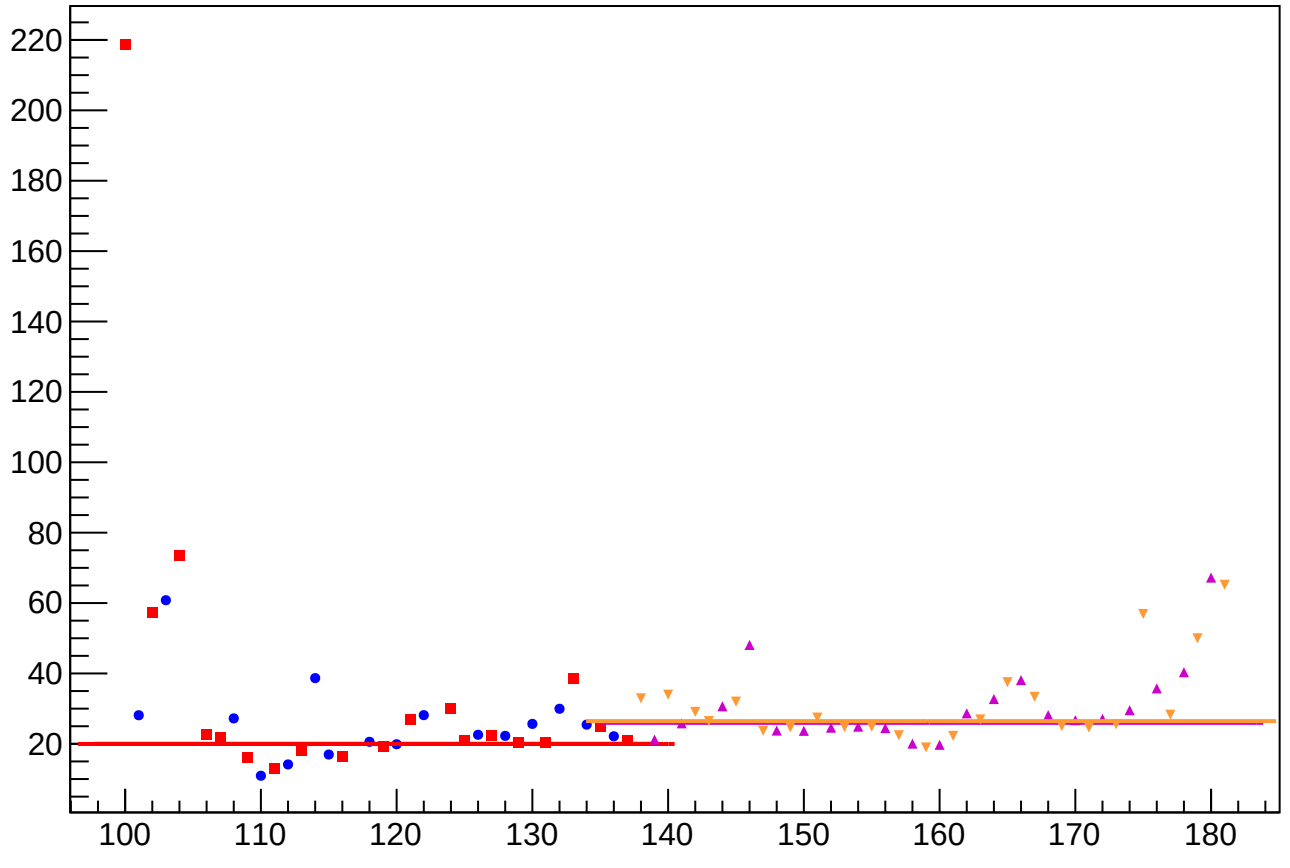
Left: 0.003+/-0.005 $\chi^2$/NDF: 60.7/43

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.005+/-0.005 $\chi^2$/NDF:38.6/36

Out: -0.002+/-0.005 $\chi^2$/NDF:60.4/41

All: 0.001+/-0.004 $\chi^2$/NDF: 99.9/78




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641197.3/15

Left Out: 26.458+/-0.005 $\chi^2$/NDF:1990235.1/22

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716830.0/18

Left In: 25.966+/-0.005 $\chi^2$/NDF:1902791.6/20

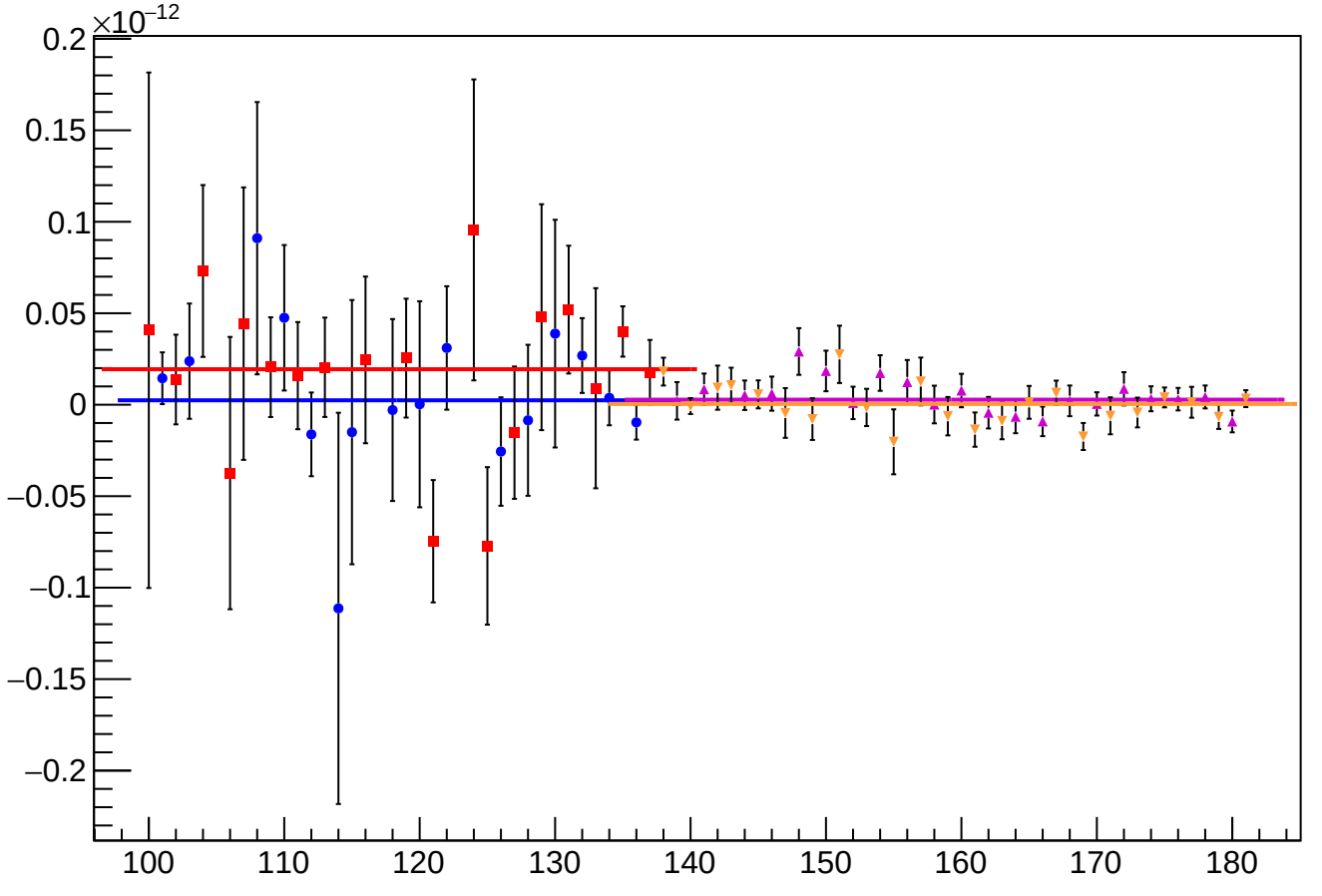
Left: 26.216+/-0.003 $\chi^2$/NDF: 3898571.5/43

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358048.3/34

In: 23.591+/-0.004 $\chi^2$/NDF:4186063.2/36

Out: 23.887+/-0.004 $\chi^2$/NDF:4485022.8/41

All: 23.741+/-0.003 $\chi^2$/NDF: 8674435.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:26.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.8/20

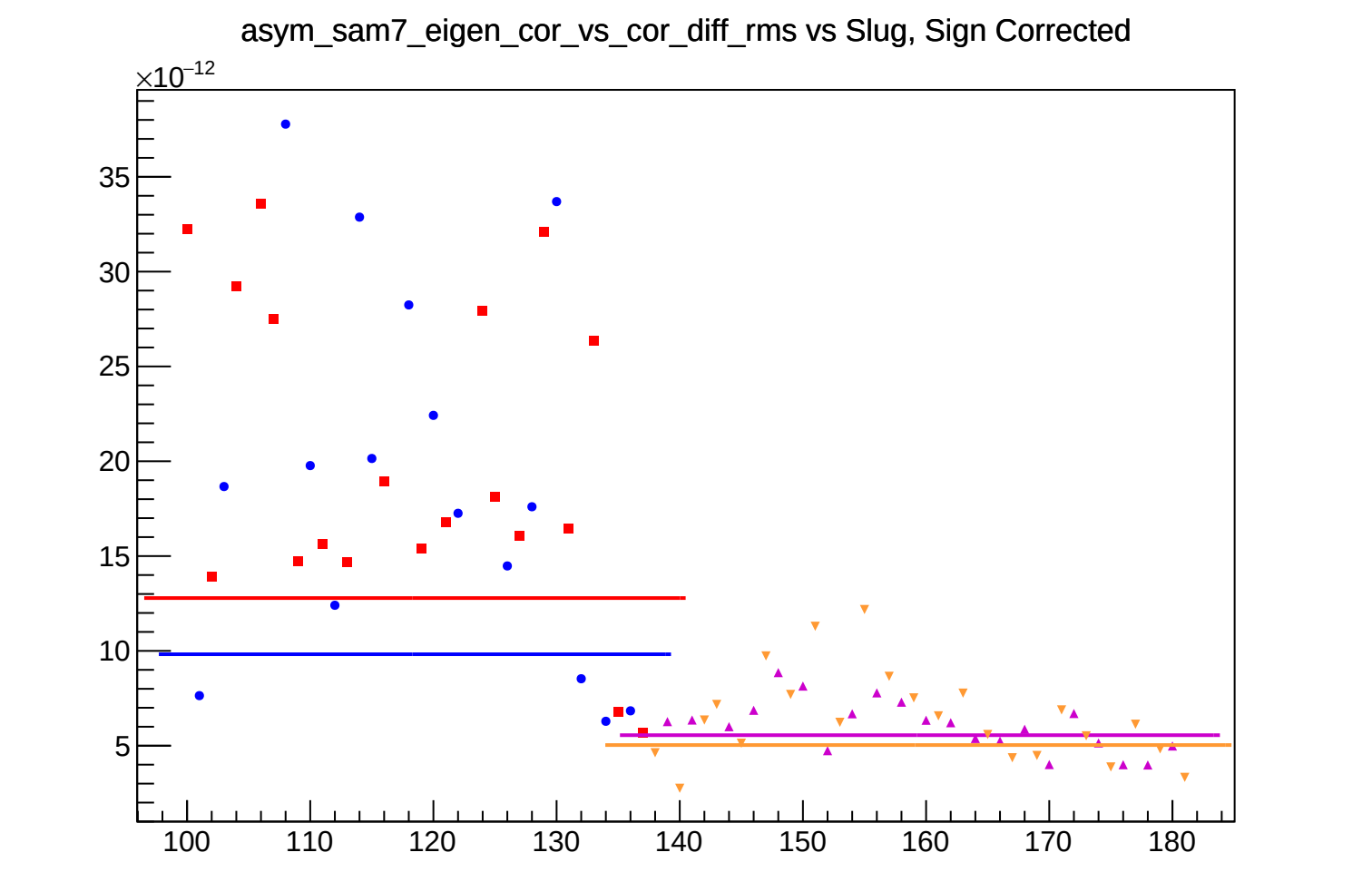
Left: 0.000+/-0.000 $\chi^2$/NDF: 46.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 34.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:29.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:53.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 83.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1977074.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2682750.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1798852.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:947534.3/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3721209.5/43

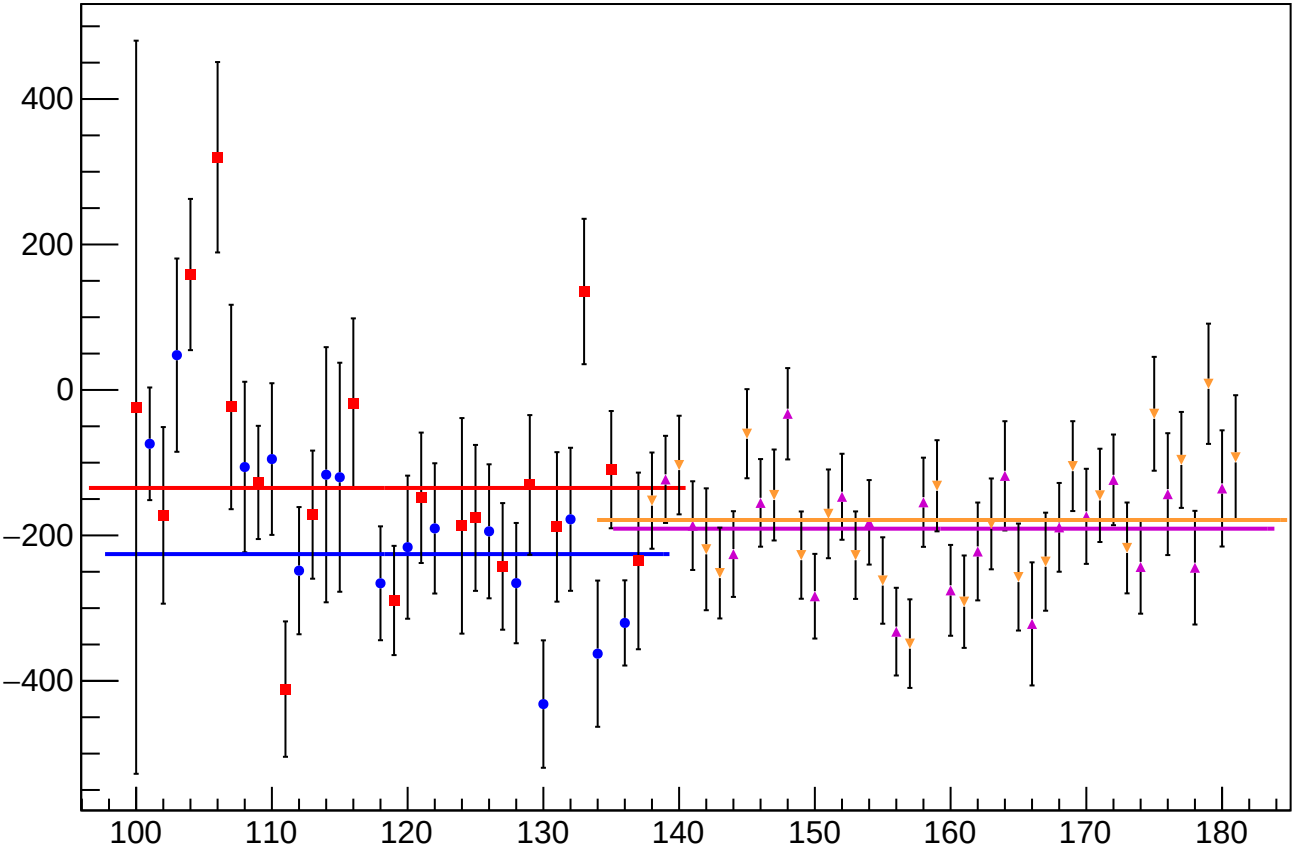
Right: 0.000+/-0.000 $\chi^2$/NDF: 3988919.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:3940241.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6768954.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10800760.6/78

# reg_asym_sam8_mean vs Slug, Sign Corrected




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -178.805+/-13.679 $\chi^2$/NDF:37.0/22

Right Out: -134.762+/-23.192 $\chi^2$/NDF: 45.3/18

Left In: -190.765+/-14.083 $\chi^2$/NDF:25.9/20

Left: -184.611+/-9.812 $\chi^2$/NDF: 63.2/43

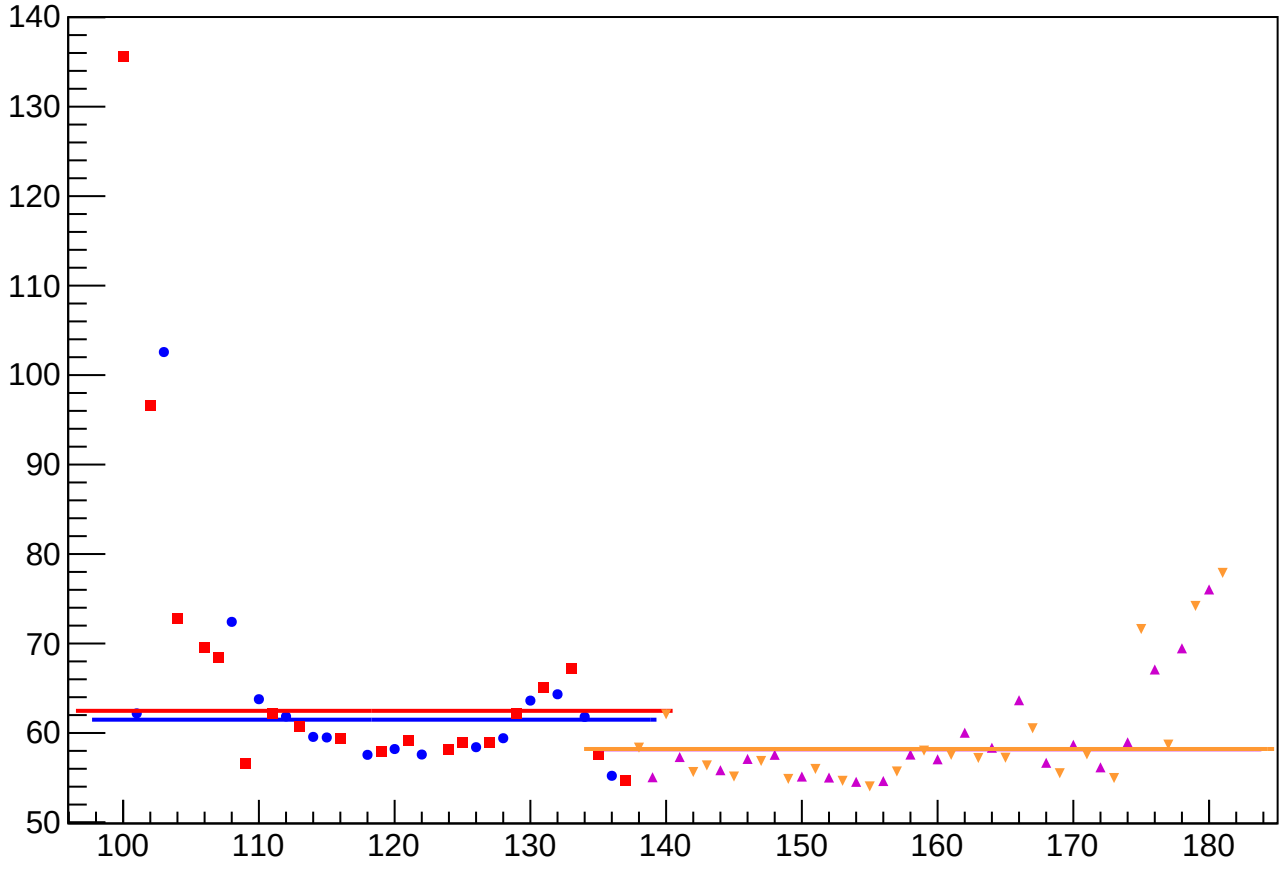
Right: -180.371+/-16.373 $\chi^2$/NDF: 75.6/34

In: -200.218+/-12.027 $\chi^2$/NDF:50.1/36

Out: -167.437+/-11.782 $\chi^2$/NDF:84.9/41

All: -183.491+/-8.417 $\chi^2$/NDF: 138.8/78

# reg_asym_sam8_rms vs Slug, Sign Corrected




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250669.2/15

Left Out: 58.212+/-0.010 $\chi^2$/NDF:297948.1/22

Right Out: 62.476+/-0.016 $\chi^2$/NDF: 281148.3/18

Left In: 58.175+/-0.010 $\chi^2$/NDF:214595.3/20

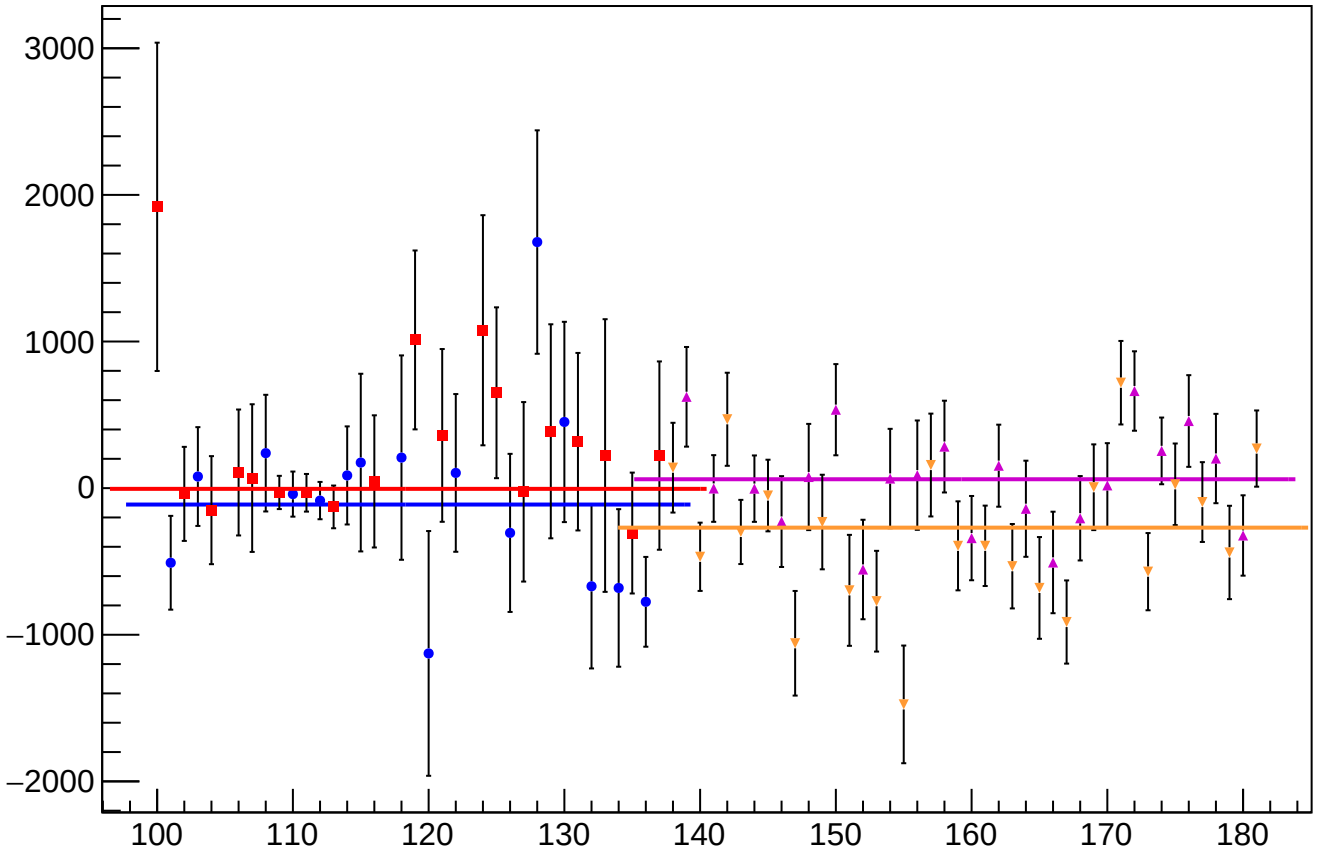
Left: 58.194+/-0.007 $\chi^2$/NDF: 512550.5/43

Right: 61.979+/-0.012 $\chi^2$/NDF: 533645.0/34

In: 59.071+/-0.009 $\chi^2$/NDF:495178.9/36

Out: 59.313+/-0.008 $\chi^2$/NDF:629246.9/41

All: 59.194+/-0.006 $\chi^2$/NDF: 1124836.6/78




Right In: -111.885+/-76.212 $\chi^2$/NDF: 18.5/15

Left Out: -269.463+/-60.810 $\chi^2$/NDF:55.7/22

Right Out: -4.893+/-63.933 $\chi^2$/NDF: 11.6/18

Left In: 60.595+/-63.936 $\chi^2$/NDF:25.3/20

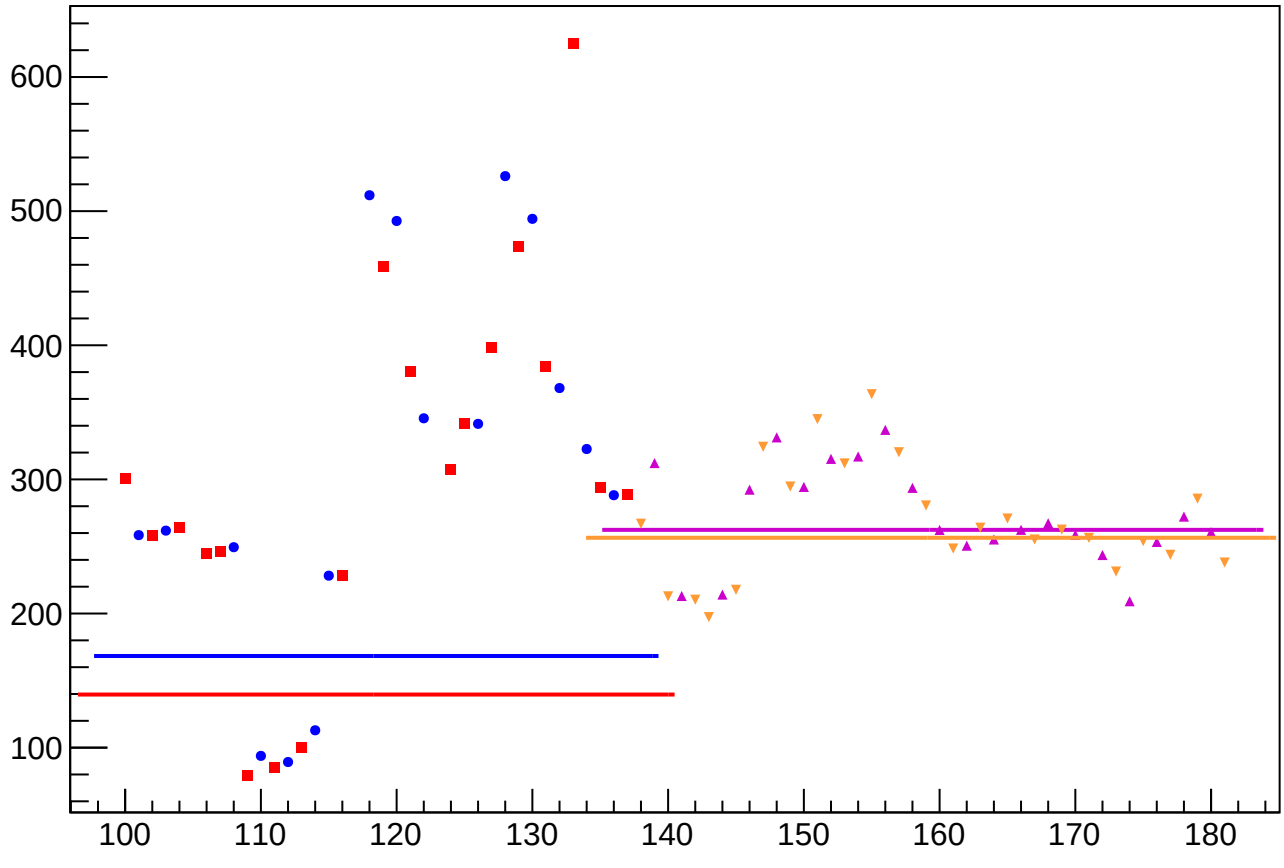
Left: -112.701+/-44.063 $\chi^2$/NDF: 95.0/43

Right: -49.085+/-48.981 $\chi^2$/NDF: 31.3/34

In: -10.652+/-48.982 $\chi^2$/NDF:46.8/36

Out: -143.797+/-44.062 $\chi^2$/NDF:76.3/41

All: -84.246+/-32.758 $\chi^2$/NDF: 127.2/78




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544046.8/15

Left Out: 256.479+/-0.043 $\chi^2$/NDF:851438.1/22

Right Out: 139.594+/-0.045 $\chi^2$/NDF: 5154153.5/18

Left In: 262.386+/-0.045 $\chi^2$/NDF:669226.8/20

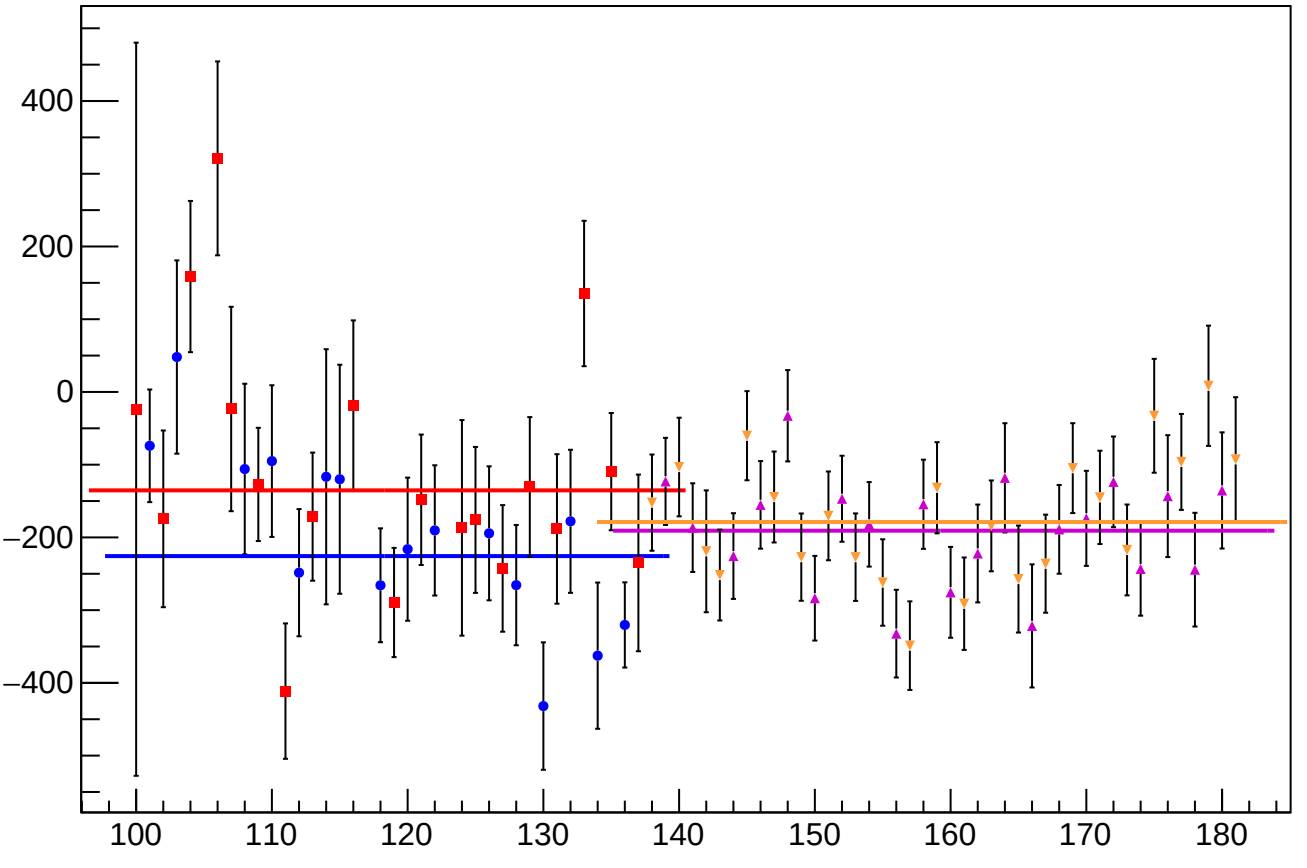
Left: 259.284+/-0.031 $\chi^2$/NDF: 1529627.3/43

Right: 151.463+/-0.035 $\chi^2$/NDF: 9865092.4/34

In: 223.534+/-0.035 $\chi^2$/NDF:7001143.1/36

Out: 200.961+/-0.031 $\chi^2$/NDF:9515383.7/41

All: 211.057+/-0.023 $\chi^2$/NDF: 16751299.3/78




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -178.802+/-13.679 $\chi^2$/NDF:37.0/22

Right Out: -135.311+/-23.205 $\chi^2$/NDF: 44.9/18

Left In: -190.766+/-14.083 $\chi^2$/NDF:25.9/20

Left: -184.610+/-9.812 $\chi^2$/NDF: 63.2/43

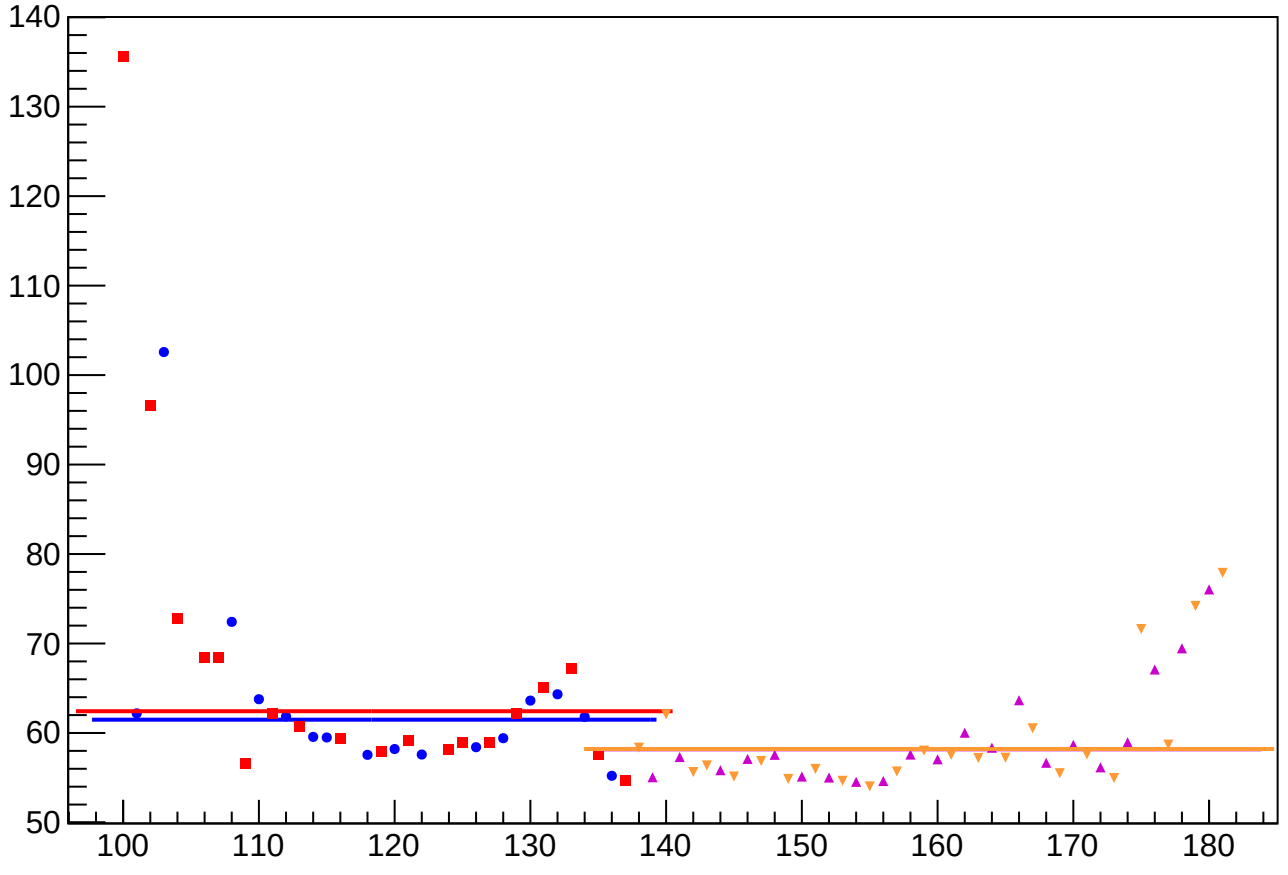
Right: -180.670+/-16.378 $\chi^2$/NDF: 75.1/34

In: -200.218+/-12.027 $\chi^2$/NDF:50.1/36

Out: -167.587+/-11.784 $\chi^2$/NDF:84.5/41

All: -183.569+/-8.417 $\chi^2$/NDF: 138.4/78

# cor_asym_sam8_rms vs Slug, Sign Corrected




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250671.7/15

Left Out: 58.212+/-0.010 $\chi^2$/NDF:297948.1/22

Right Out: 62.433+/-0.016 $\chi^2$/NDF: 279408.8/18

Left In: 58.175+/-0.010 $\chi^2$/NDF:214595.3/20

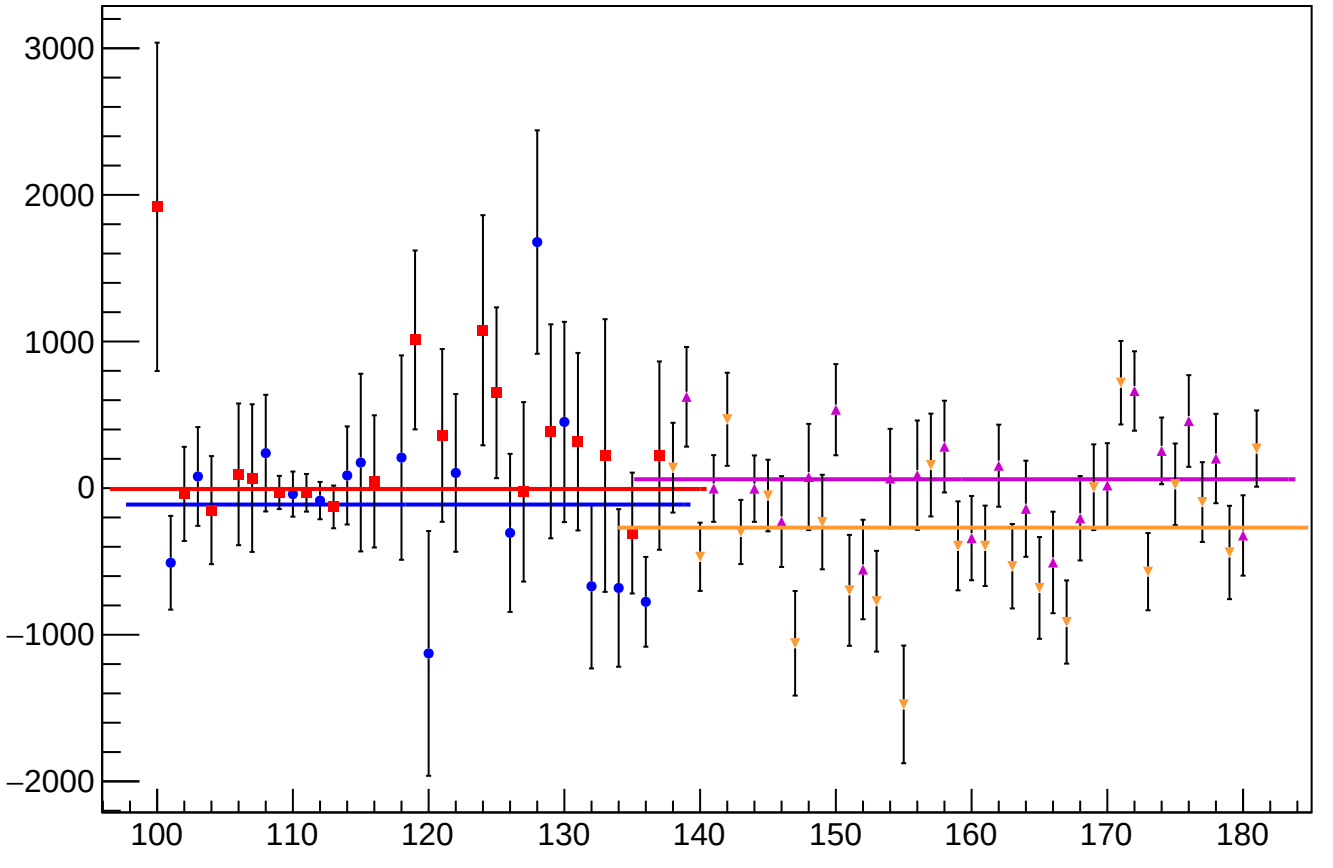
Left: 58.194+/-0.007 $\chi^2$/NDF: 512550.5/43

Right: 61.958+/-0.012 $\chi^2$/NDF: 531751.4/34

In: 59.071+/-0.009 $\chi^2$/NDF:495181.5/36

Out: 59.300+/-0.008 $\chi^2$/NDF:626457.0/41

All: 59.188+/-0.006 $\chi^2$/NDF: 1122009.3/78




Right In: -111.866+/-76.213 $\chi^2$/NDF: 18.5/15

Left Out: -269.463+/-60.810 $\chi^2$/NDF:55.7/22

Right Out: -5.616+/-64.085 $\chi^2$/NDF: 11.6/18

Left In: 60.592+/-63.936 $\chi^2$/NDF:25.3/20

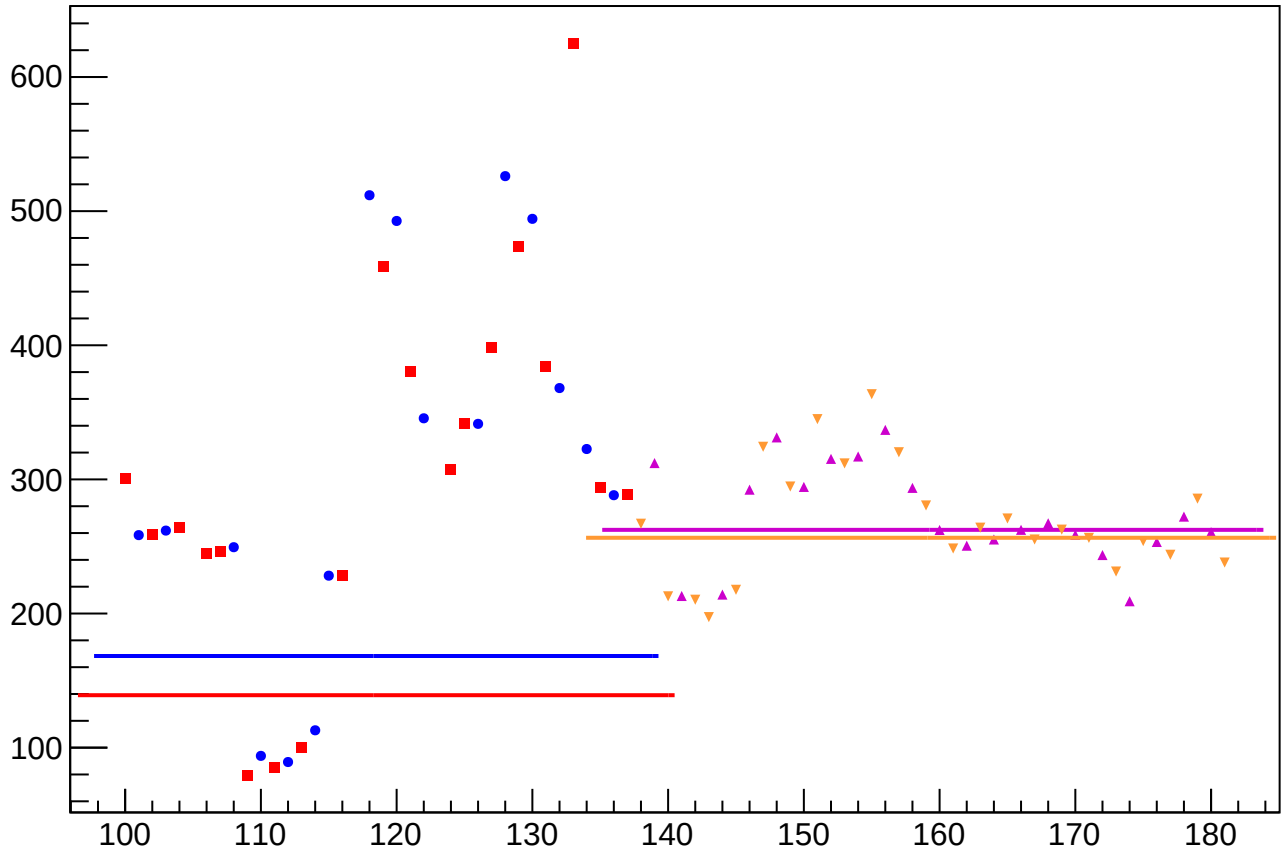
Left: -112.703+/-44.063 $\chi^2$/NDF: 95.0/43

Right: -49.624+/-49.049 $\chi^2$/NDF: 31.2/34

In: -10.645+/-48.982 $\chi^2$/NDF:46.8/36

Out: -144.454+/-44.111 $\chi^2$/NDF:76.2/41

All: -84.532+/-32.779 $\chi^2$/NDF: 127.1/78




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544100.8/15

Left Out: 256.479+/-0.043 $\chi^2$/NDF:851439.2/22

Right Out: 139.105+/-0.045 $\chi^2$/NDF: 5130011.5/18

Left In: 262.386+/-0.045 $\chi^2$/NDF:669225.2/20

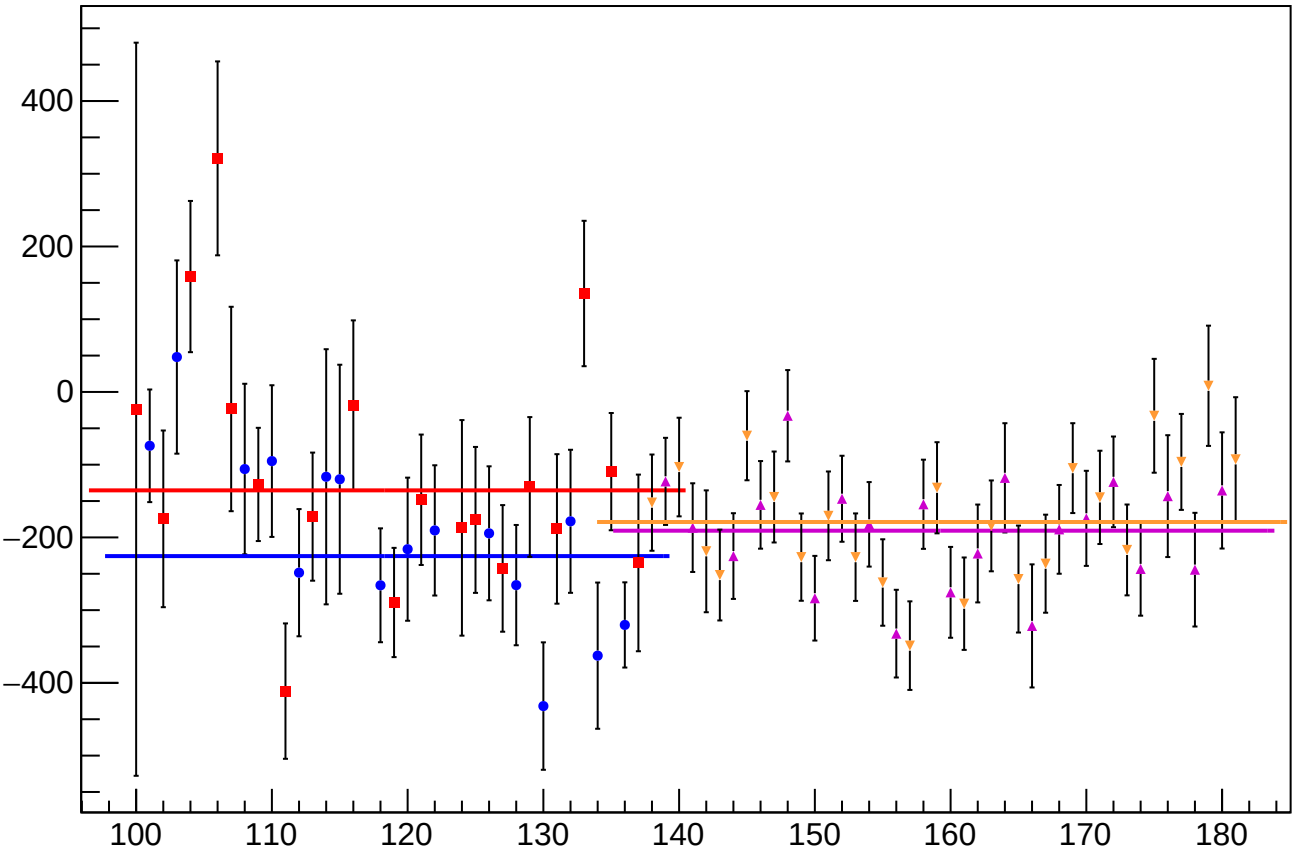
Left: 259.284+/-0.031 $\chi^2$/NDF: 1529627.5/43

Right: 151.210+/-0.035 $\chi^2$/NDF: 9846393.6/34

In: 223.534+/-0.035 $\chi^2$/NDF:7001175.6/36

Out: 200.867+/-0.031 $\chi^2$/NDF:9511817.3/41

All: 211.018+/-0.023 $\chi^2$/NDF: 16749474.0/78




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -178.802+/-13.679 $\chi^2$/NDF:37.0/22

Right Out: -135.311+/-23.205 $\chi^2$/NDF: 44.9/18

Left In: -190.766+/-14.083 $\chi^2$/NDF:25.9/20

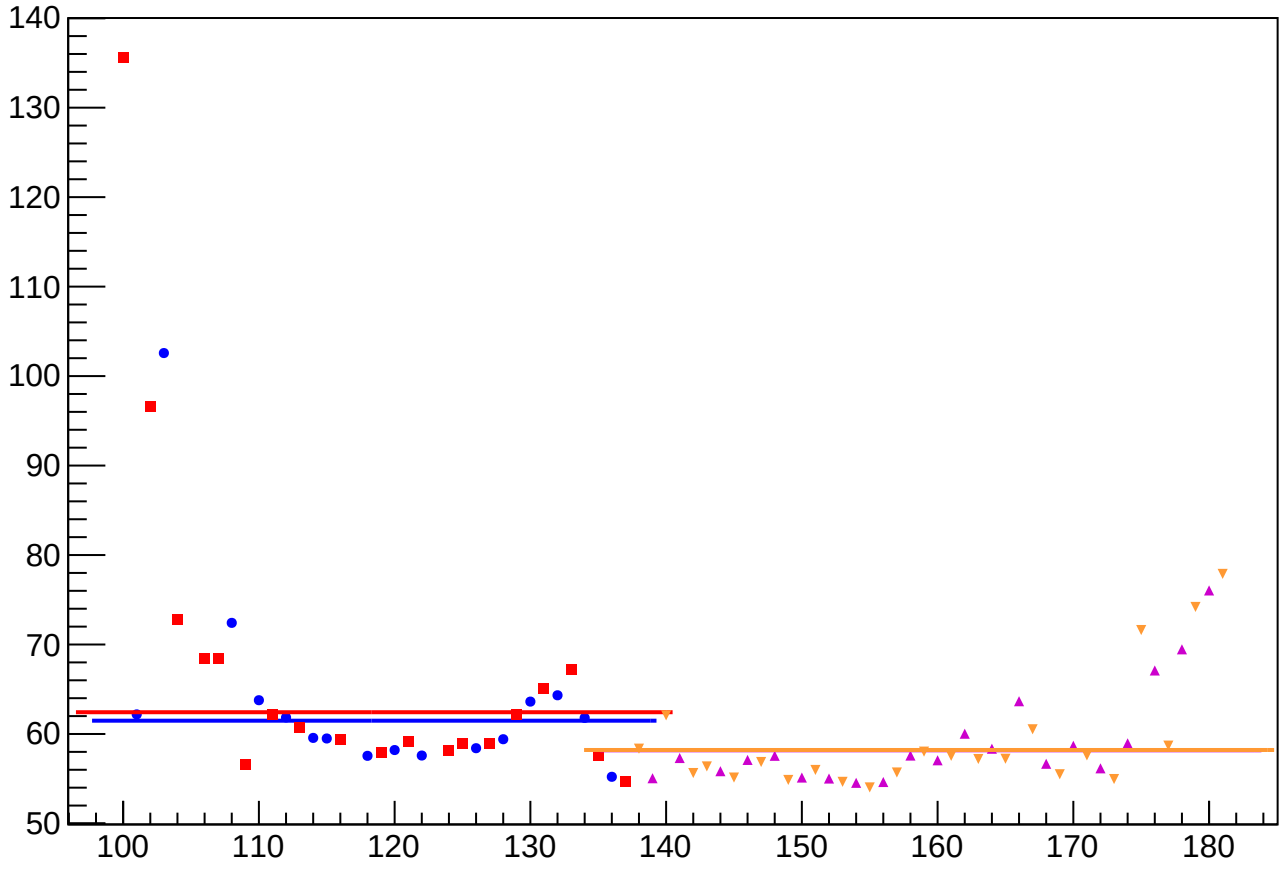
Left: -184.610+/-9.812 $\chi^2$/NDF: 63.2/43

Right: -180.670+/-16.378 $\chi^2$/NDF: 75.1/34

In: -200.218+/-12.027 $\chi^2$/NDF:50.1/36

Out: -167.587+/-11.784 $\chi^2$/NDF:84.5/41

All: -183.569+/-8.417 $\chi^2$/NDF: 138.4/78




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250671.7/15

Left Out: 58.212+/-0.010 $\chi^2$/NDF:297948.1/22

Right Out: 62.433+/-0.016 $\chi^2$/NDF: 279408.8/18

Left In: 58.175+/-0.010 $\chi^2$/NDF:214595.3/20

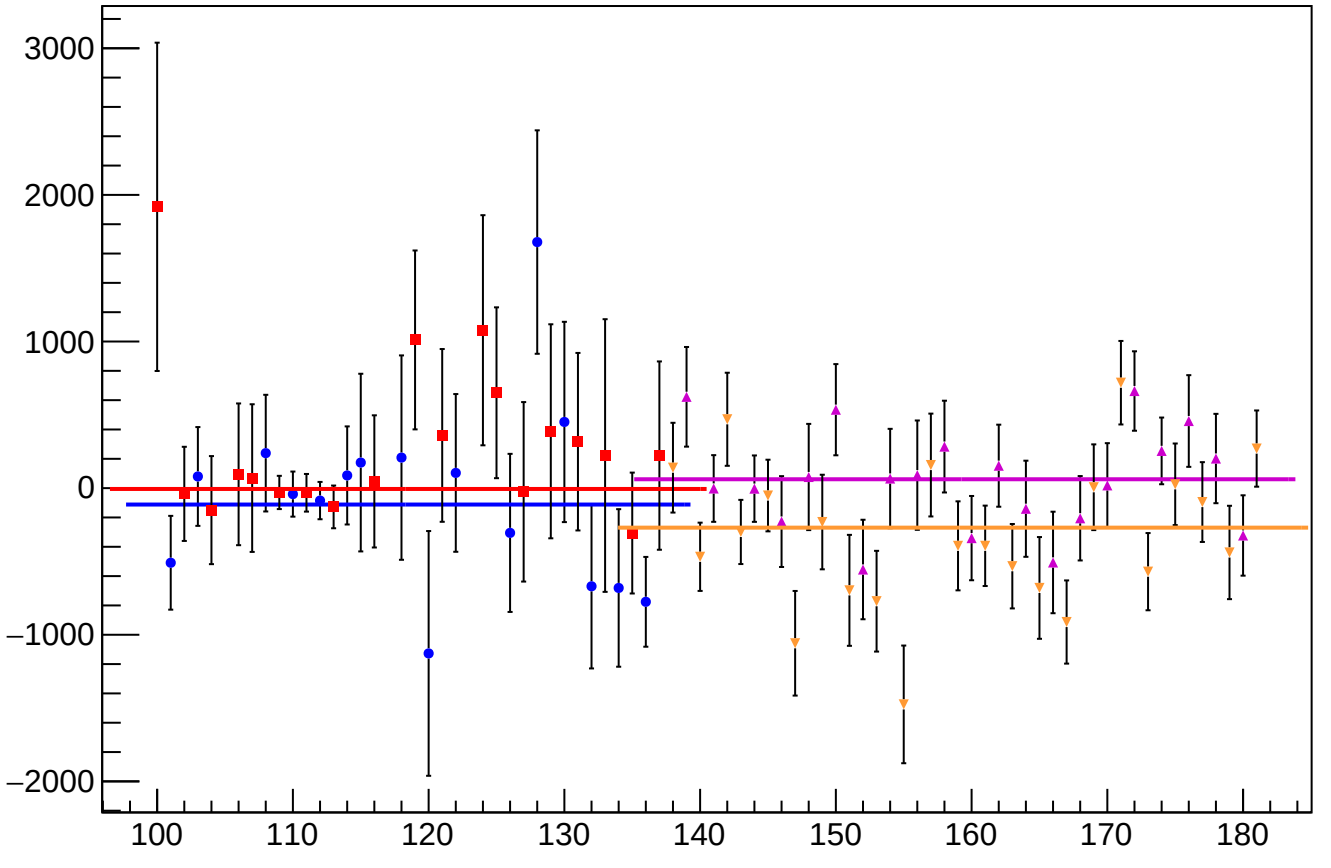
Left: 58.194+/-0.007 $\chi^2$/NDF: 512550.5/43

Right: 61.958+/-0.012 $\chi^2$/NDF: 531751.4/34

In: 59.071+/-0.009 $\chi^2$/NDF:495181.5/36

Out: 59.300+/-0.008 $\chi^2$/NDF:626457.0/41

All: 59.188+/-0.006 $\chi^2$/NDF: 1122009.3/78




Right In: -111.866+/-76.213 $\chi^2$/NDF: 18.5/15

Left Out: -269.463+/-60.810 $\chi^2$/NDF:55.7/22

Right Out: -5.616+/-64.085 $\chi^2$/NDF: 11.6/18

Left In: 60.592+/-63.936 $\chi^2$/NDF:25.3/20

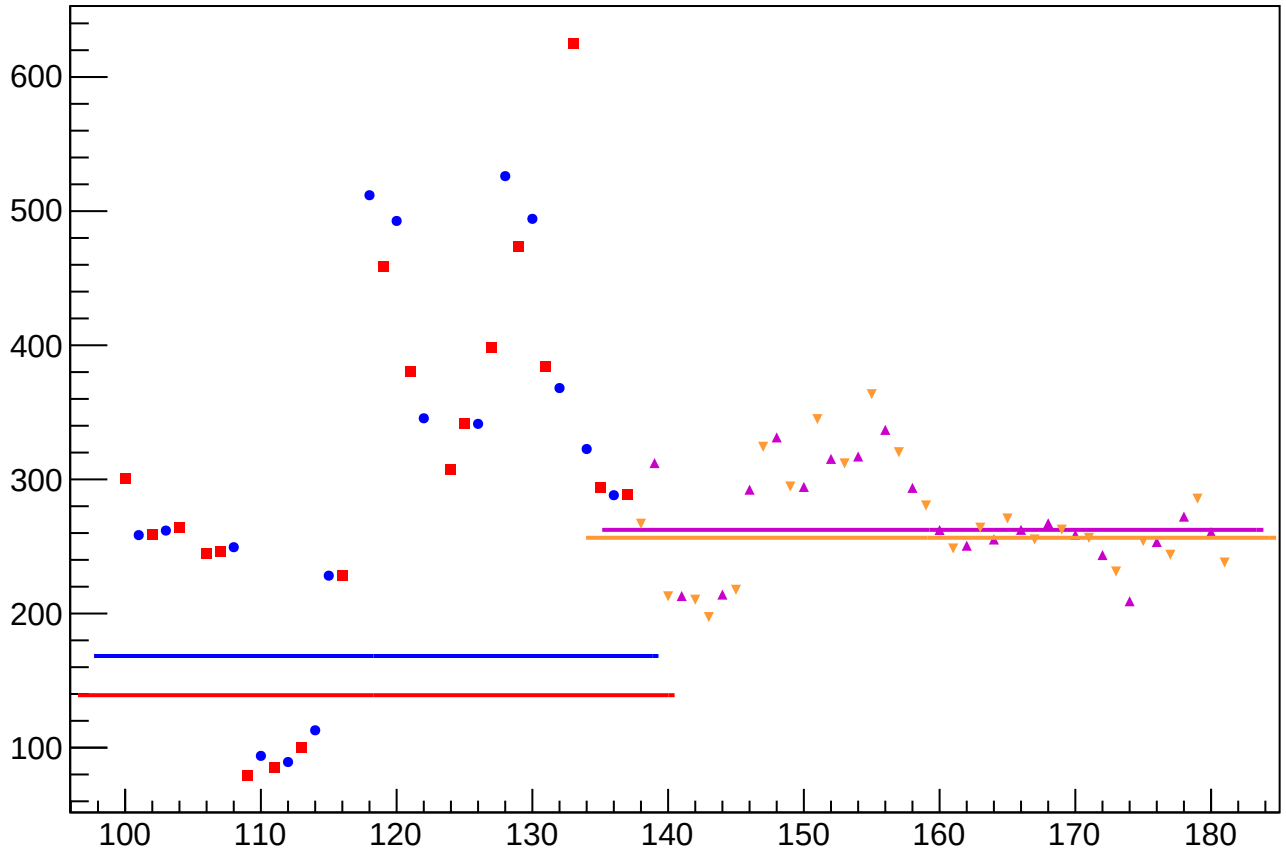
Left: -112.703+/-44.063 $\chi^2$/NDF: 95.0/43

Right: -49.624+/-49.049 $\chi^2$/NDF: 31.2/34

In: -10.645+/-48.982 $\chi^2$/NDF:46.8/36

Out: -144.454+/-44.111 $\chi^2$/NDF:76.2/41

All: -84.532+/-32.779 $\chi^2$/NDF: 127.1/78




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544100.8/15

Left Out: 256.479+/-0.043 $\chi^2$/NDF:851439.2/22

Right Out: 139.105+/-0.045 $\chi^2$/NDF: 5130011.5/18

Left In: 262.386+/-0.045 $\chi^2$/NDF:669225.2/20

Left: 259.284+/-0.031 $\chi^2$/NDF: 1529627.5/43

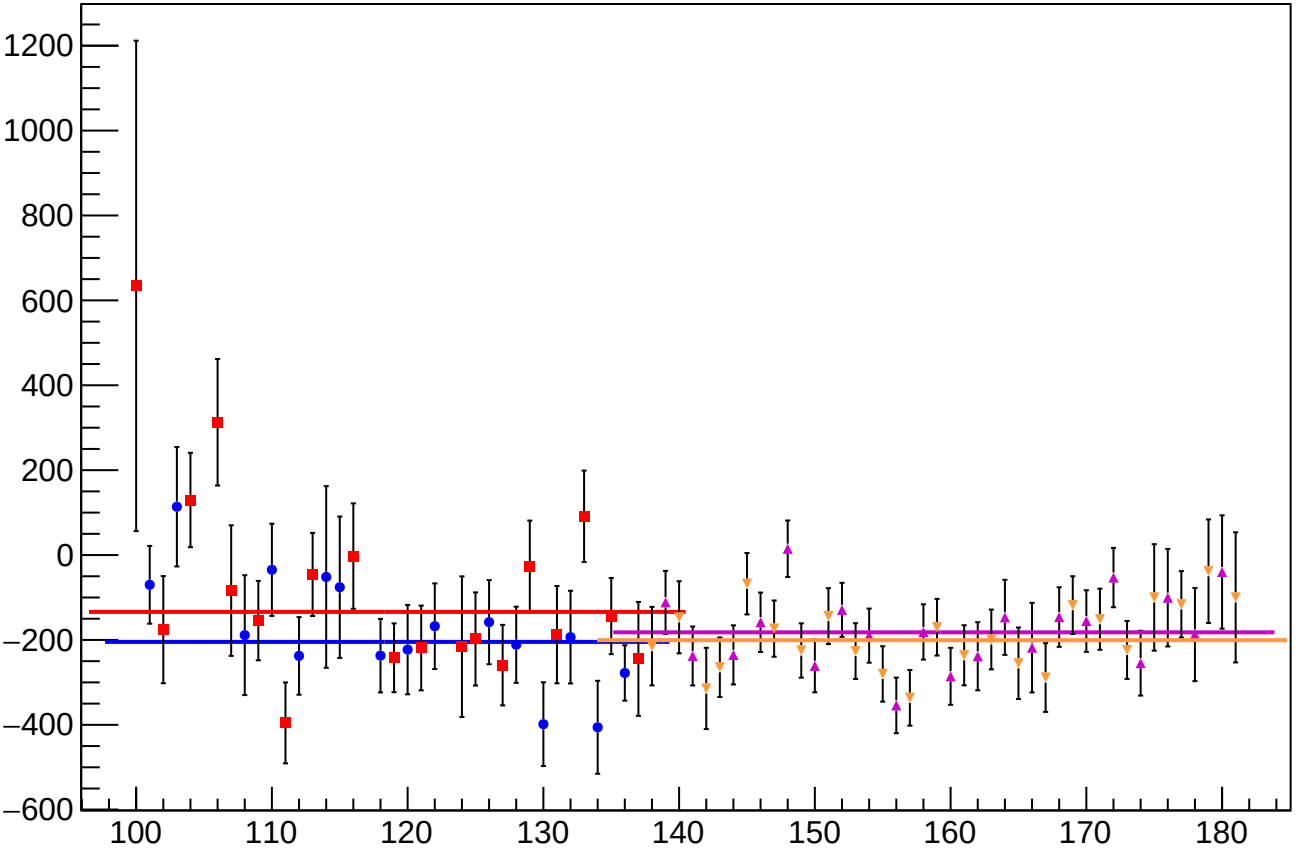
Right: 151.210+/-0.035 $\chi^2$/NDF: 9846393.6/34

In: 223.534+/-0.035 $\chi^2$/NDF:7001175.6/36

Out: 200.867+/-0.031 $\chi^2$/NDF:9511817.3/41

All: 211.018+/-0.023 $\chi^2$/NDF: 16749474.0/78

# dit_asym_sam8_mean vs Slug, Sign Corrected




Right In: -204.577+/-25.523 $\chi^2$/NDF: 20.0/15

Left Out: -200.585+/-15.737 $\chi^2$/NDF:21.1/22

Right Out: -133.924+/-25.484 $\chi^2$/NDF: 37.2/18

Left In: -182.051+/-16.169 $\chi^2$/NDF:29.7/20

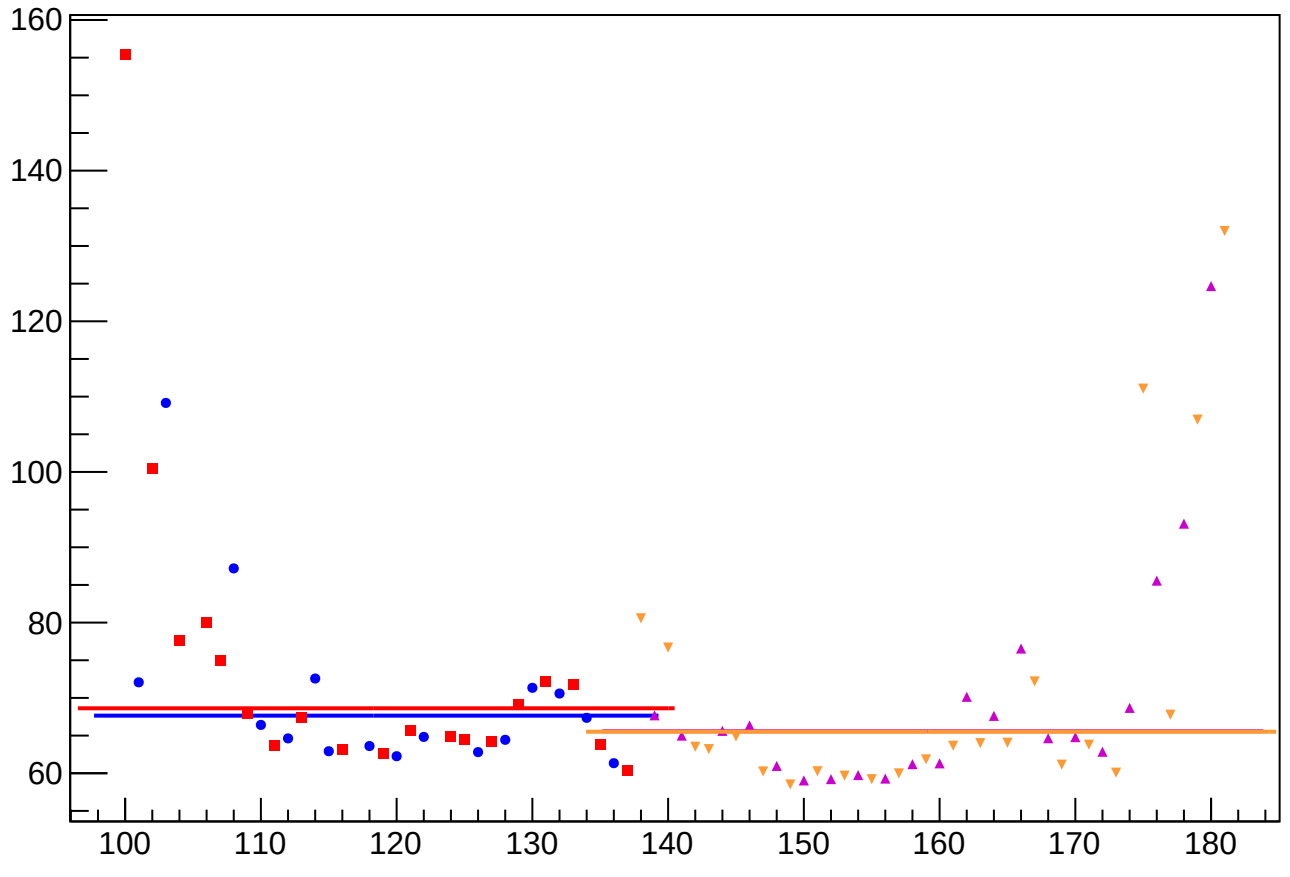
Left: -191.570+/-11.277 $\chi^2$/NDF: 51.6/43

Right: -169.195+/-18.034 $\chi^2$/NDF: 61.1/34

In: -188.503+/-13.659 $\chi^2$/NDF:50.3/36

Out: -182.183+/-13.390 $\chi^2$/NDF:63.3/41

All: -185.280+/-9.562 $\chi^2$/NDF: 113.7/78




Right In: 67.647+/-0.018 $\chi^2$/NDF: 263669.9/15

Left Out: 65.513+/-0.011 $\chi^2$/NDF:1105317.6/22

Right Out: 68.624+/-0.018 $\chi^2$/NDF: 248164.6/18

Left In: 65.574+/-0.011 $\chi^2$/NDF:720172.6/20

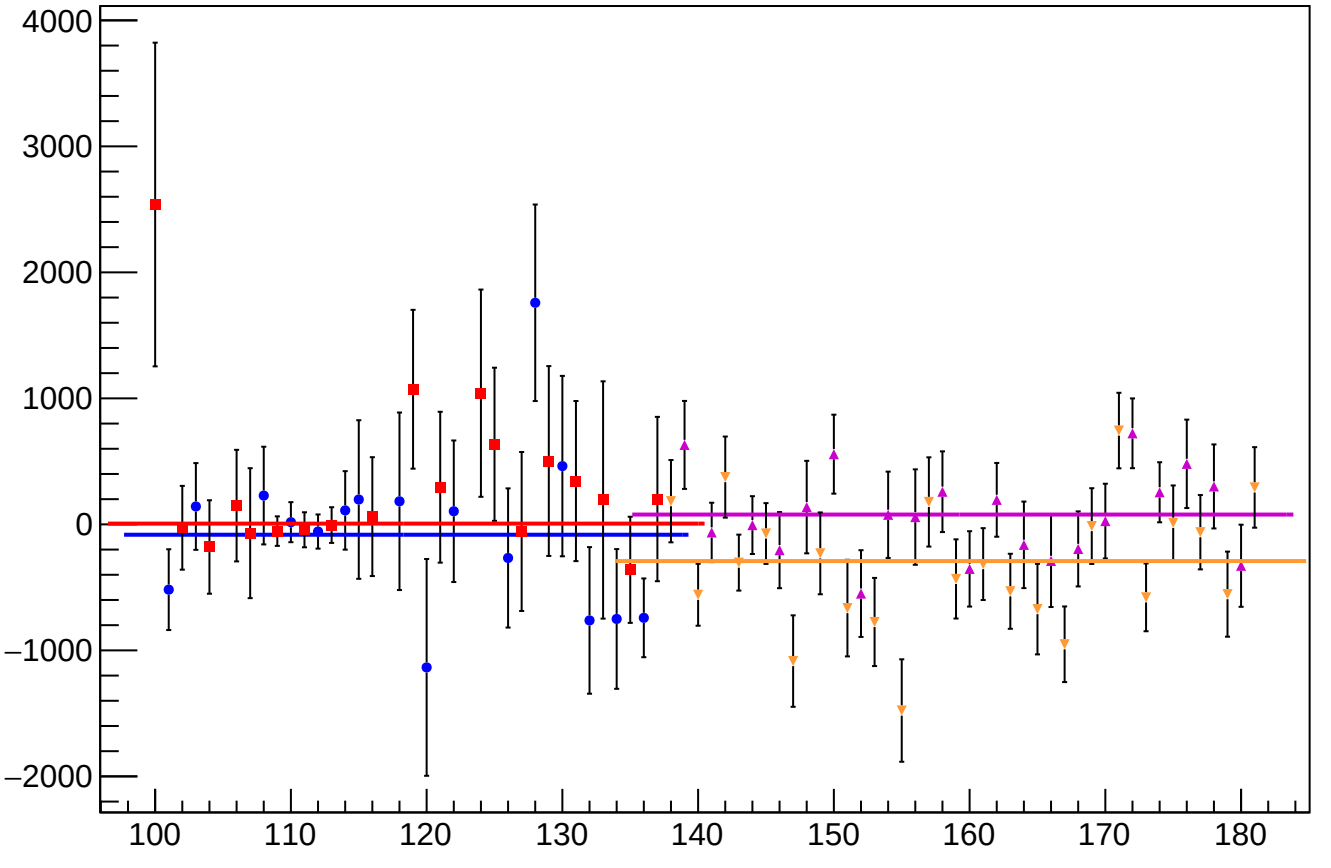
Left: 65.542+/-0.008 $\chi^2$/NDF: 1825504.9/43

Right: 68.136+/-0.013 $\chi^2$/NDF: 513300.5/34

In: 66.168+/-0.010 $\chi^2$/NDF:993262.6/36

Out: 66.372+/-0.009 $\chi^2$/NDF:1375063.8/41

All: 66.272+/-0.007 $\chi^2$/NDF: 2368553.6/78




Right In: -82.228+/-78.676 $\chi^2$/NDF: 19.2/15

Left Out: -291.186+/-63.356 $\chi^2$/NDF:52.7/22

Right Out: 6.063+/-65.910 $\chi^2$/NDF: 12.0/18

Left In: 77.910+/-66.505 $\chi^2$/NDF:23.8/20

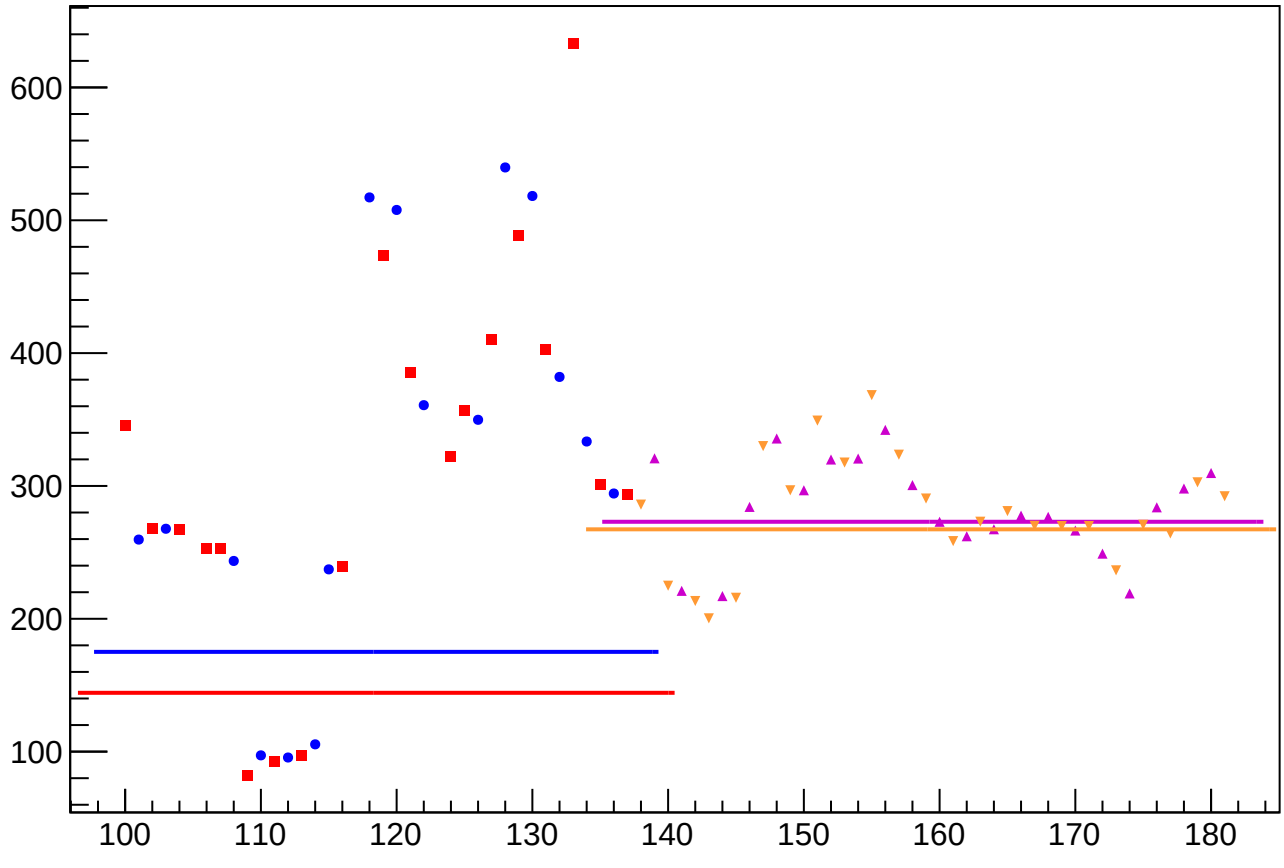
Left: -115.583+/-45.872 $\chi^2$/NDF: 92.7/43

Right: -30.347+/-50.524 $\chi^2$/NDF: 32.0/34

In: 11.172+/-50.790 $\chi^2$/NDF:45.4/36

Out: -148.432+/-45.676 $\chi^2$/NDF:75.3/41

All: -77.069+/-33.962 $\chi^2$/NDF: 126.2/78




Right In: 175.099+/-0.056 $\chi^2$/NDF: 4429076.5/15

Left Out: 267.341+/-0.045 $\chi^2$/NDF:855865.0/22

Right Out: 144.276+/-0.047 $\chi^2$/NDF: 5132432.2/18

Left In: 273.034+/-0.047 $\chi^2$/NDF:644591.2/20

Left: 270.050+/-0.032 $\chi^2$/NDF: 1508138.1/43

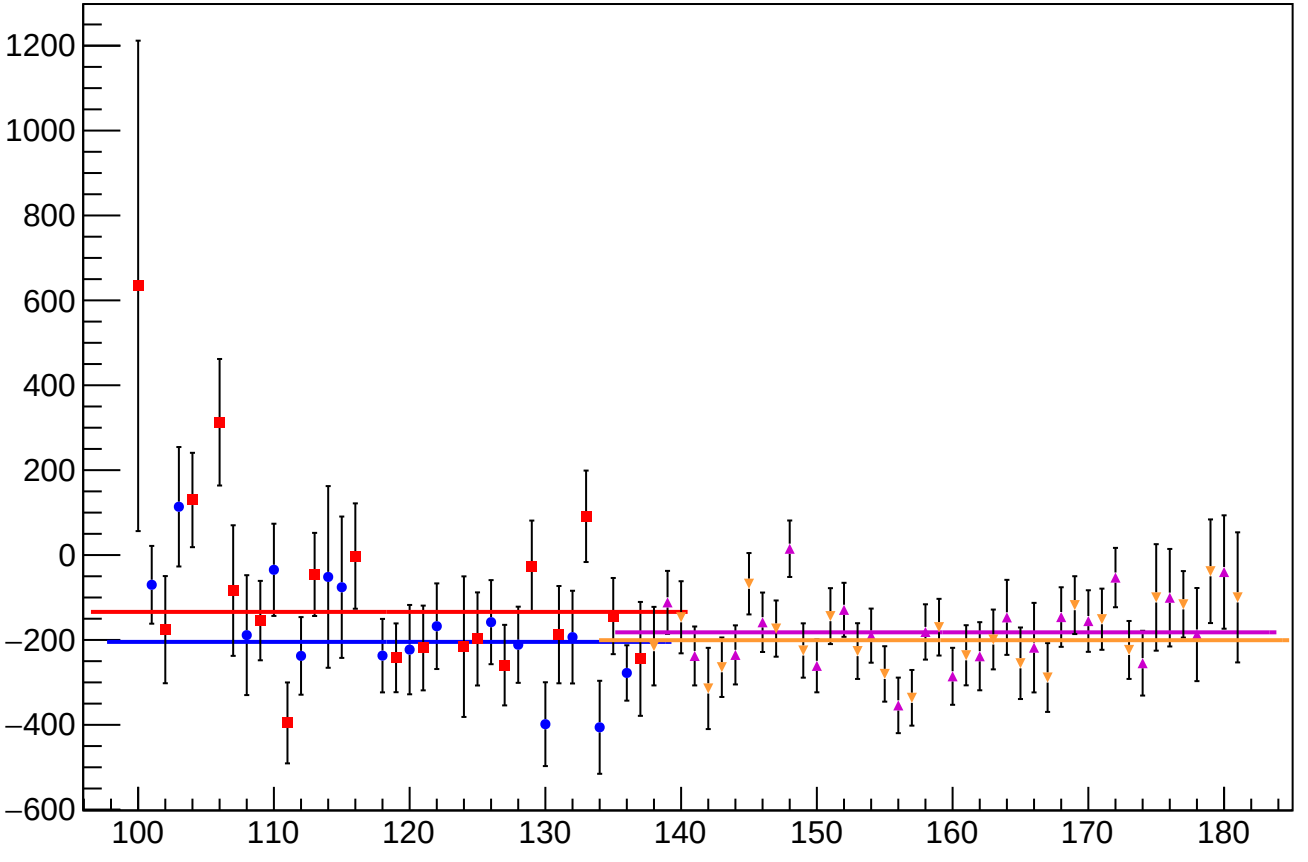
Right: 156.987+/-0.036 $\chi^2$/NDF: 9741889.9/34

In: 232.219+/-0.036 $\chi^2$/NDF:6881133.5/36

Out: 208.239+/-0.032 $\chi^2$/NDF:9612309.5/41

All: 218.961+/-0.024 $\chi^2$/NDF: 16739926.5/78

# eigen_dit_asym_sam8_mean vs Slug, Sign Corrected




Right In: -204.577+/-25.523 $\chi^2$/NDF: 20.0/15

Left Out: -200.585+/-15.737 $\chi^2$/NDF:21.1/22

Right Out: -133.926+/-25.483 $\chi^2$/NDF: 37.2/18

Left In: -182.052+/-16.169 $\chi^2$/NDF:29.7/20

Left: -191.570+/-11.277 $\chi^2$/NDF: 51.6/43

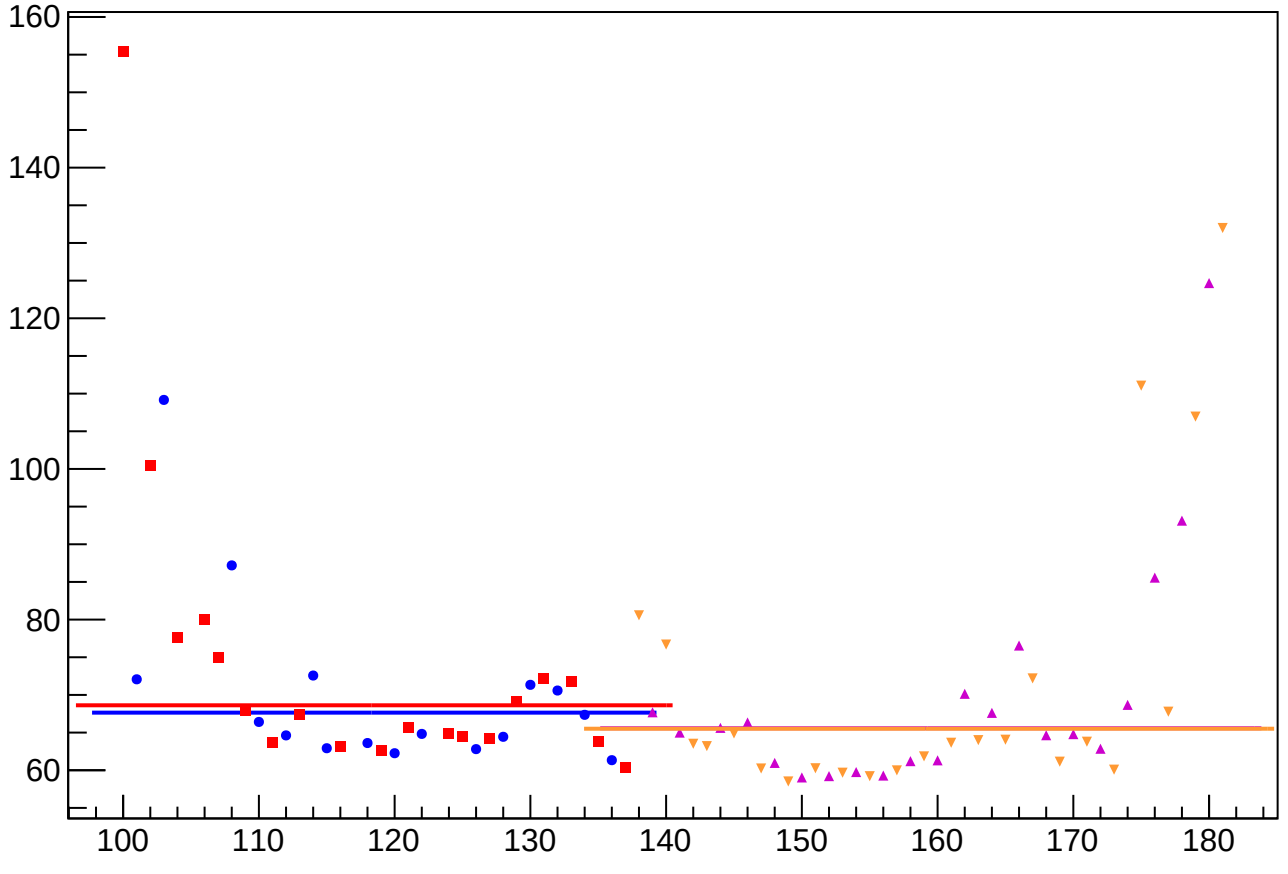
Right: -169.196+/-18.034 $\chi^2$/NDF: 61.1/34

In: -188.503+/-13.659 $\chi^2$/NDF:50.3/36

Out: -182.183+/-13.390 $\chi^2$/NDF:63.3/41

All: -185.280+/-9.562 $\chi^2$/NDF: 113.7/78

# eigen_dit_asym_sam8_rms vs Slug, Sign Corrected




Right In: 67.647+/-0.018 $\chi^2$/NDF: 263668.9/15

Left Out: 65.513+/-0.011 $\chi^2$/NDF:1105321.3/22

Right Out: 68.624+/-0.018 $\chi^2$/NDF: 248166.1/18

Left In: 65.574+/-0.011 $\chi^2$/NDF:720166.8/20

Left: 65.542+/-0.008 $\chi^2$/NDF: 1825502.8/43

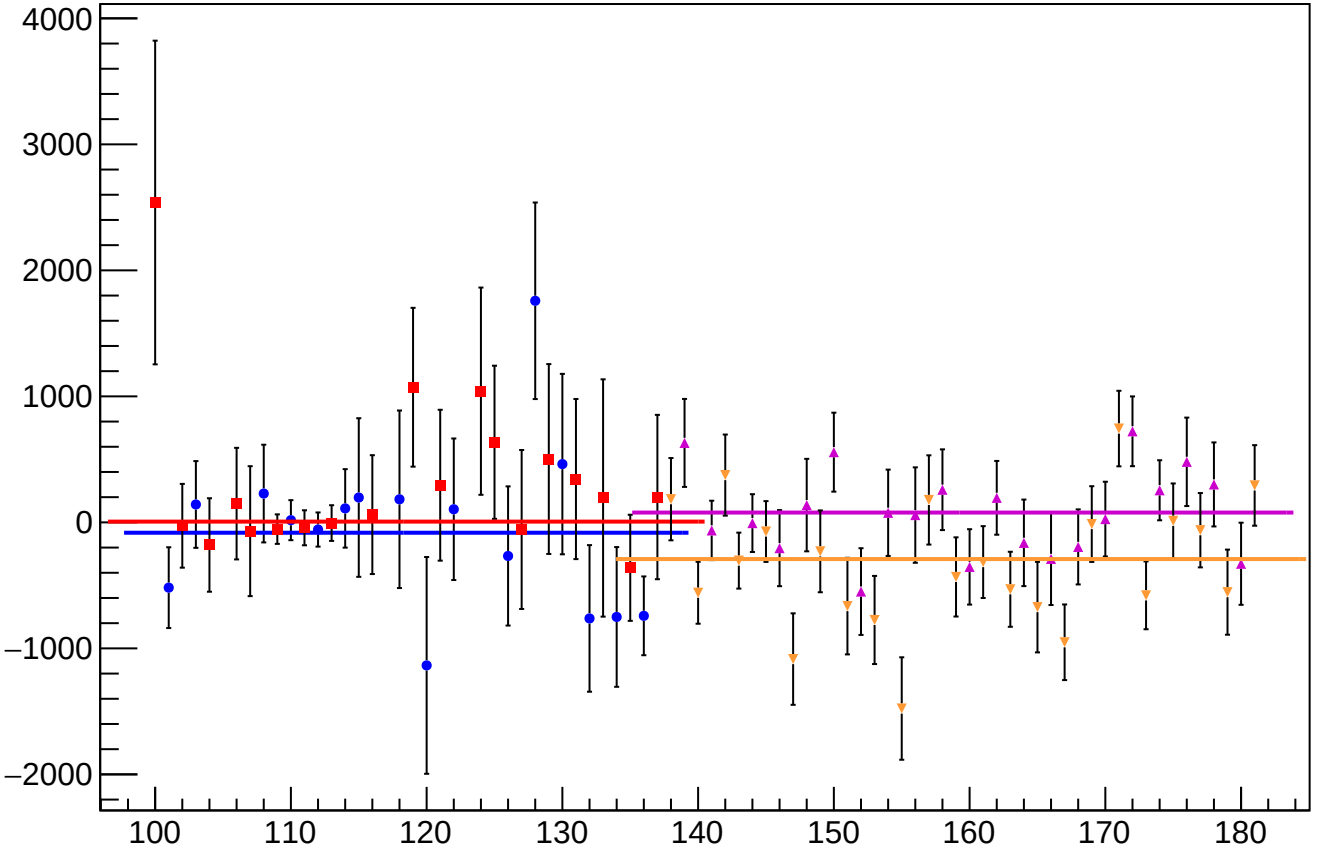
Right: 68.136+/-0.013 $\chi^2$/NDF: 513301.0/34

In: 66.168+/-0.010 $\chi^2$/NDF:993253.9/36

Out: 66.372+/-0.009 $\chi^2$/NDF:1375065.7/41

All: 66.272+/-0.007 $\chi^2$/NDF: 2368546.8/78

asym_sam8_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -82.226+/-78.675 $\chi^2$/NDF: 19.2/15

Left Out: -291.186+/-63.356 $\chi^2$/NDF:52.7/22

Right Out: 6.062+/-65.910 $\chi^2$/NDF: 12.0/18

Left In: 77.910+/-66.505 $\chi^2$/NDF:23.8/20

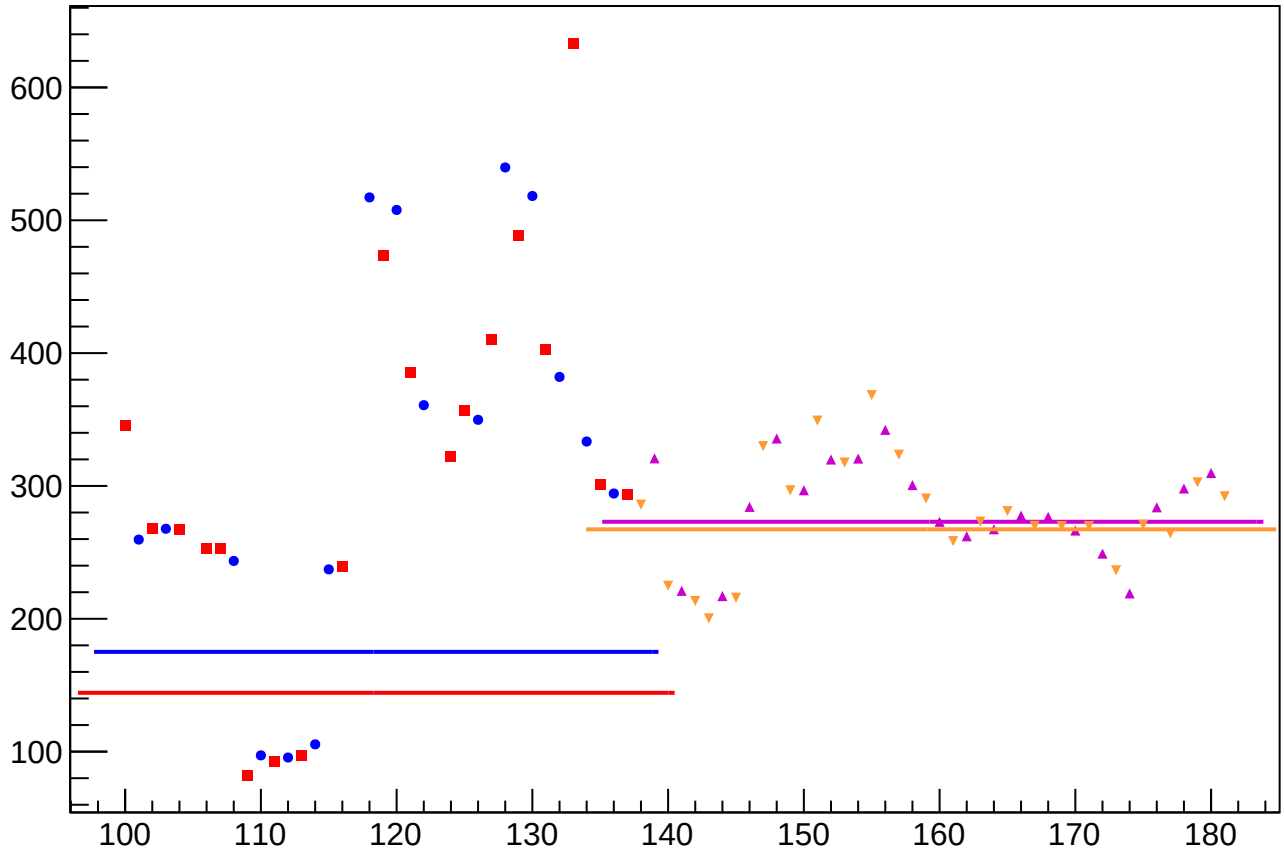
Left: -115.583+/-45.872 $\chi^2$/NDF: 92.7/43

Right: -30.347+/-50.524 $\chi^2$/NDF: 32.0/34

In: 11.172+/-50.790 $\chi^2$/NDF:45.4/36

Out: -148.433+/-45.676 $\chi^2$/NDF:75.3/41

All: -77.069+/-33.962 $\chi^2$/NDF: 126.2/78




Right In: 175.098+/-0.056 $\chi^2$/NDF: 4429098.4/15

Left Out: 267.340+/-0.045 $\chi^2$/NDF:855875.1/22

Right Out: 144.276+/-0.047 $\chi^2$/NDF: 5132412.3/18

Left In: 273.033+/-0.047 $\chi^2$/NDF:644596.3/20

Left: 270.049+/-0.032 $\chi^2$/NDF: 1508153.3/43

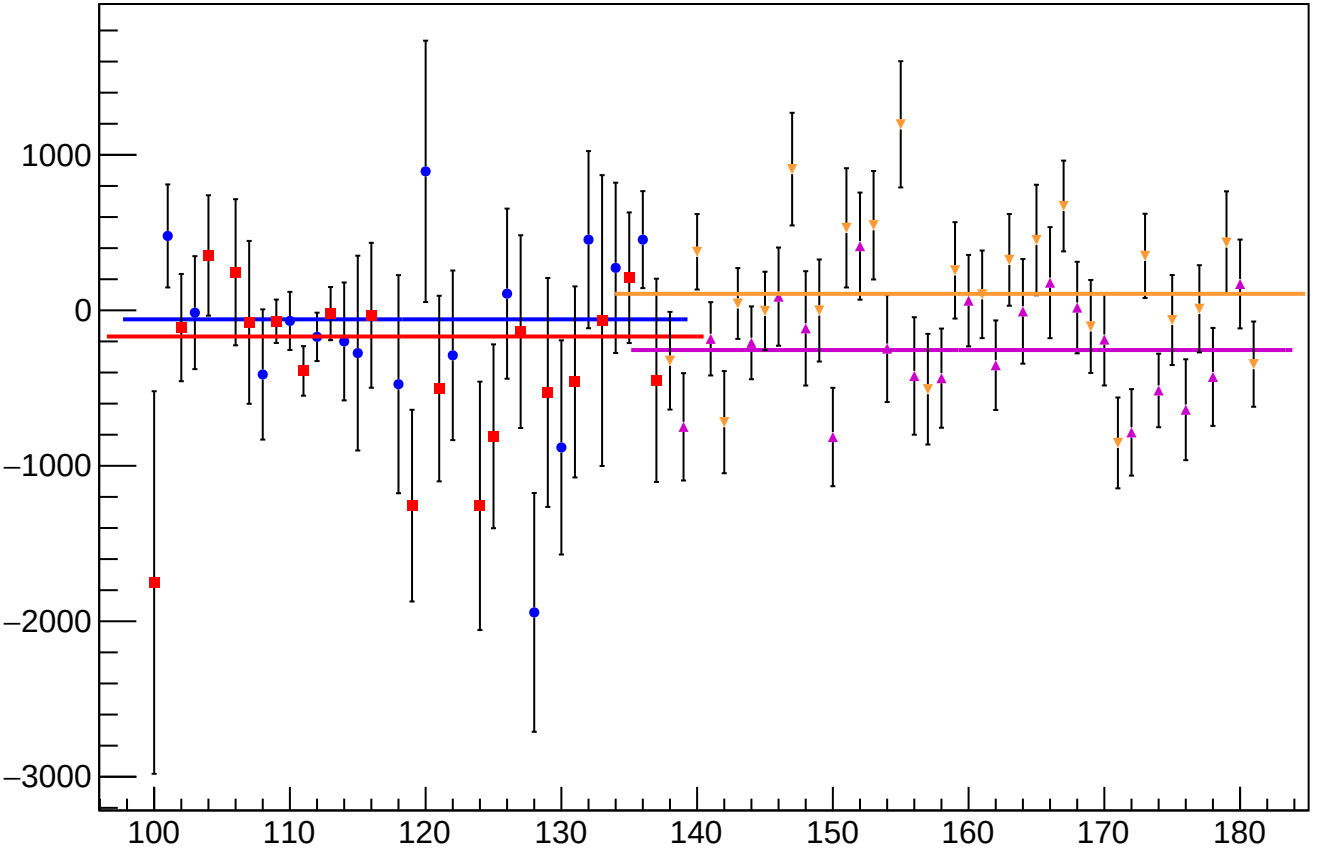
Right: 156.987+/-0.036 $\chi^2$/NDF: 9741880.9/34

In: 232.218+/-0.036 $\chi^2$/NDF:6881194.1/36

Out: 208.239+/-0.032 $\chi^2$/NDF:9612281.5/41

All: 218.961+/-0.024 $\chi^2$/NDF: 16739947.3/78

# asym_sam8_mean vs Slug, Sign Corrected




Right In: -57.970+/-86.890 $\chi^2$/NDF: 17.4/15

Left Out: 106.155+/-62.599 $\chi^2$/NDF:49.5/22

Right Out: -168.322+/-74.598 $\chi^2$/NDF: 15.5/18

Left In: -255.376+/-65.699 $\chi^2$/NDF:23.9/20

Left: -65.883+/-45.321 $\chi^2$/NDF: 89.2/43

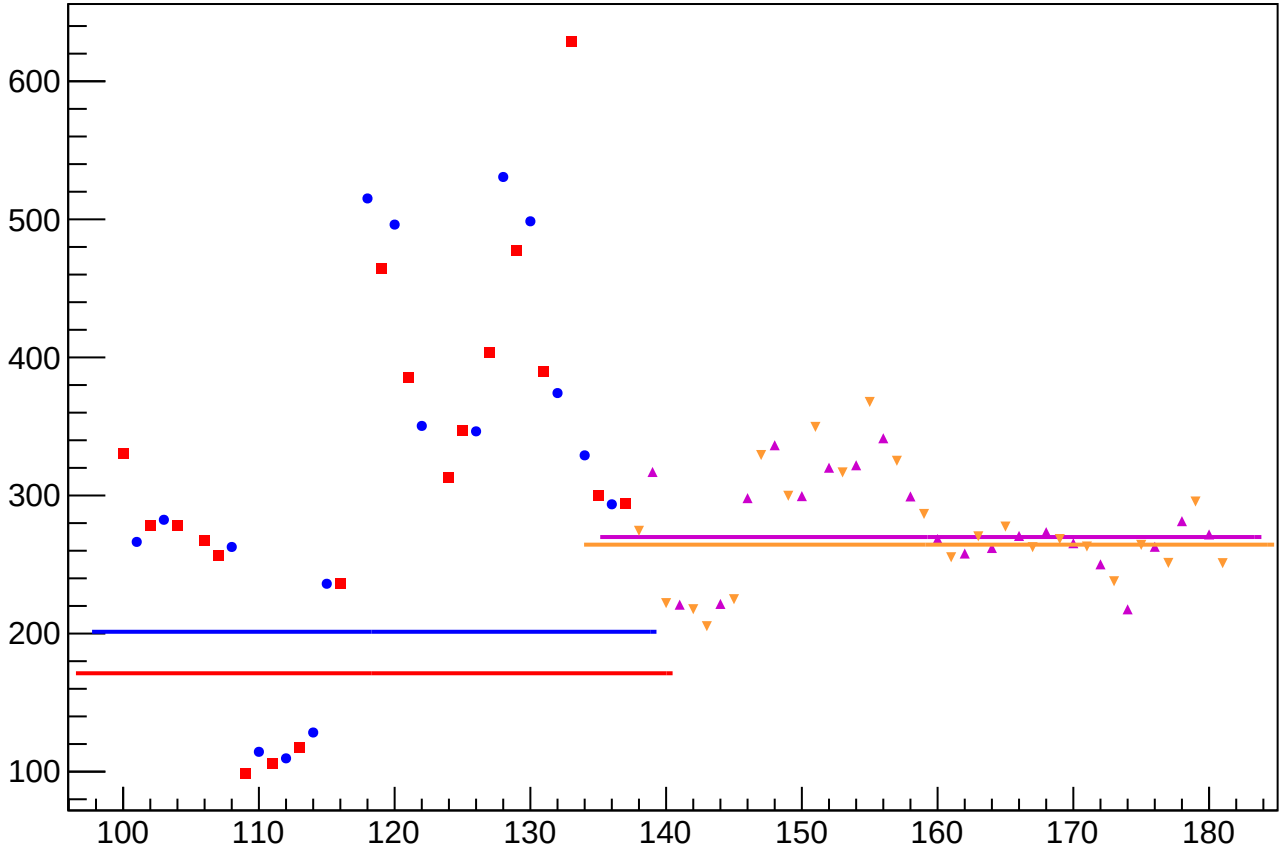
Right: -121.498+/-56.600 $\chi^2$/NDF: 33.8/34

In: -183.571+/-52.405 $\chi^2$/NDF:44.5/36

Out: -7.262+/-47.953 $\chi^2$/NDF:72.9/41

All: -87.610+/-35.377 $\chi^2$/NDF: 123.6/78

# asym_sam8_rms vs Slug, Sign Corrected




Right In: 201.301+/-0.061 $\chi^2$/NDF: 3572199.4/15

Left Out: 264.400+/-0.044 $\chi^2$/NDF:769237.8/22

Right Out: 171.252+/-0.053 $\chi^2$/NDF: 4192554.2/18

Left In: 269.921+/-0.046 $\chi^2$/NDF:602114.6/20

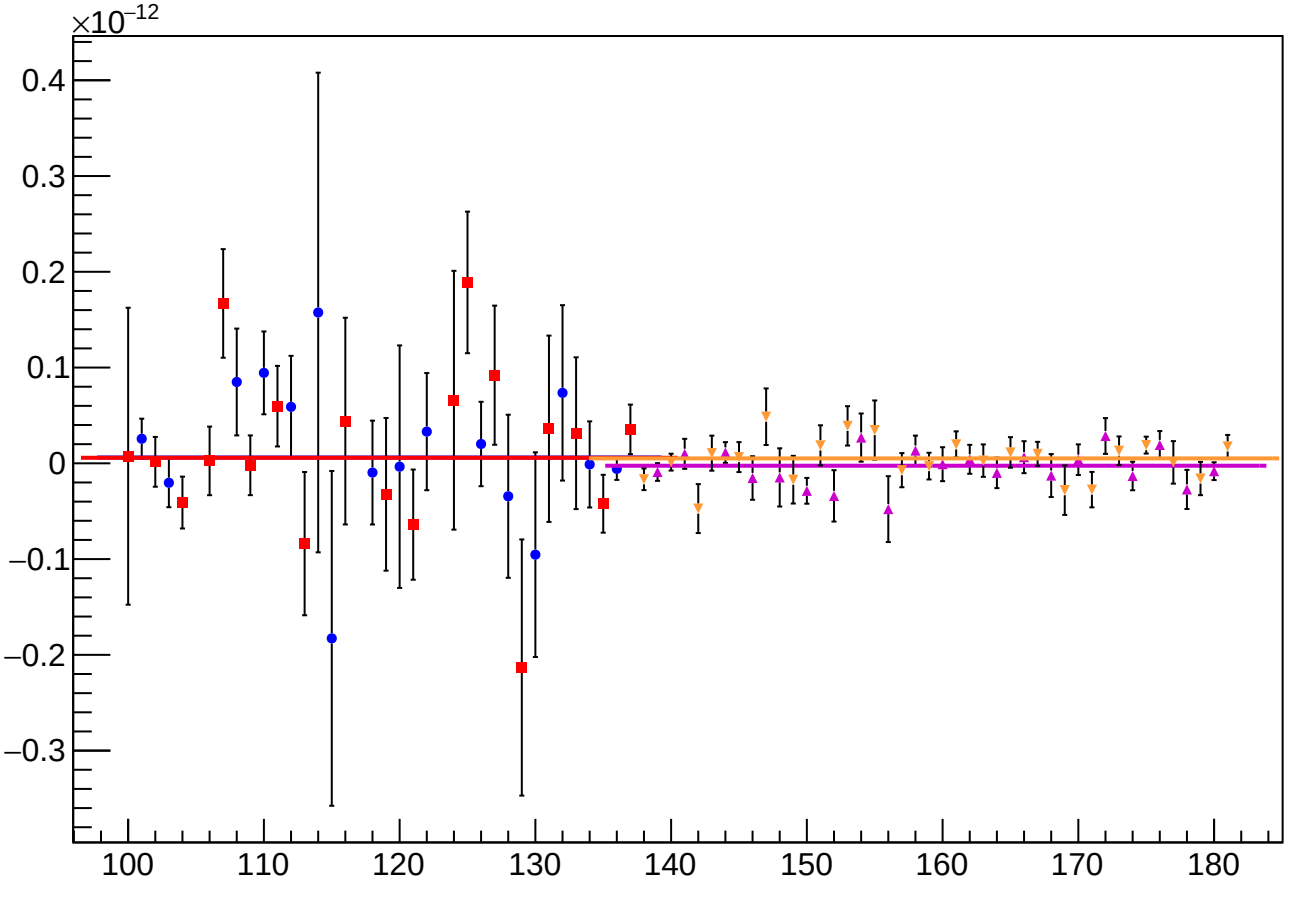
Left: 267.027+/-0.032 $\chi^2$/NDF: 1378755.6/43

Right: 184.002+/-0.040 $\chi^2$/NDF: 7902458.5/34

In: 244.961+/-0.037 $\chi^2$/NDF:4967933.5/36

Out: 225.910+/-0.034 $\chi^2$/NDF:6791615.7/41

All: 234.592+/-0.025 $\chi^2$/NDF: 11903407.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:27.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 30.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:21.0/20

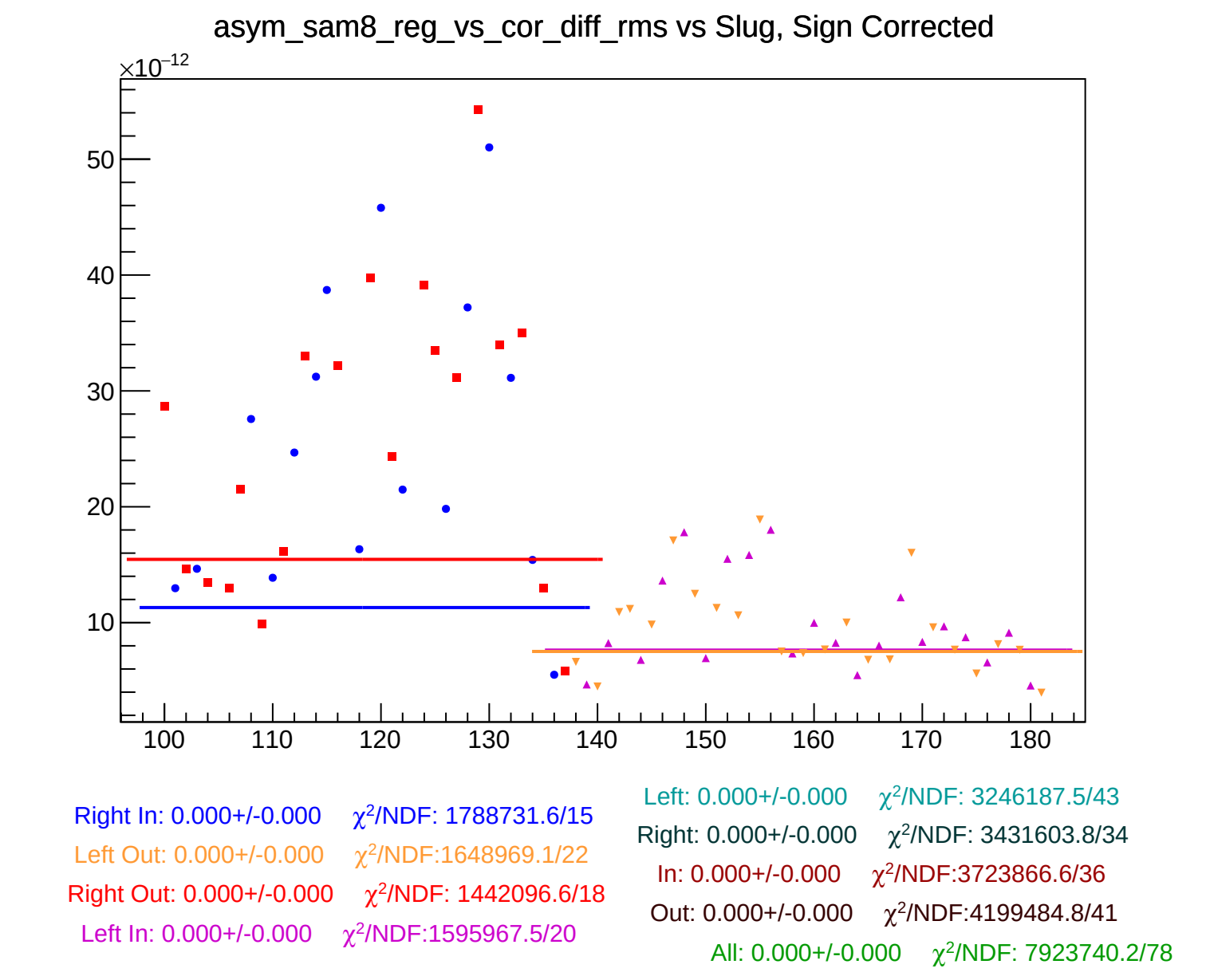
Left: 0.000+/-0.000 $\chi^2$/NDF: 51.4/43

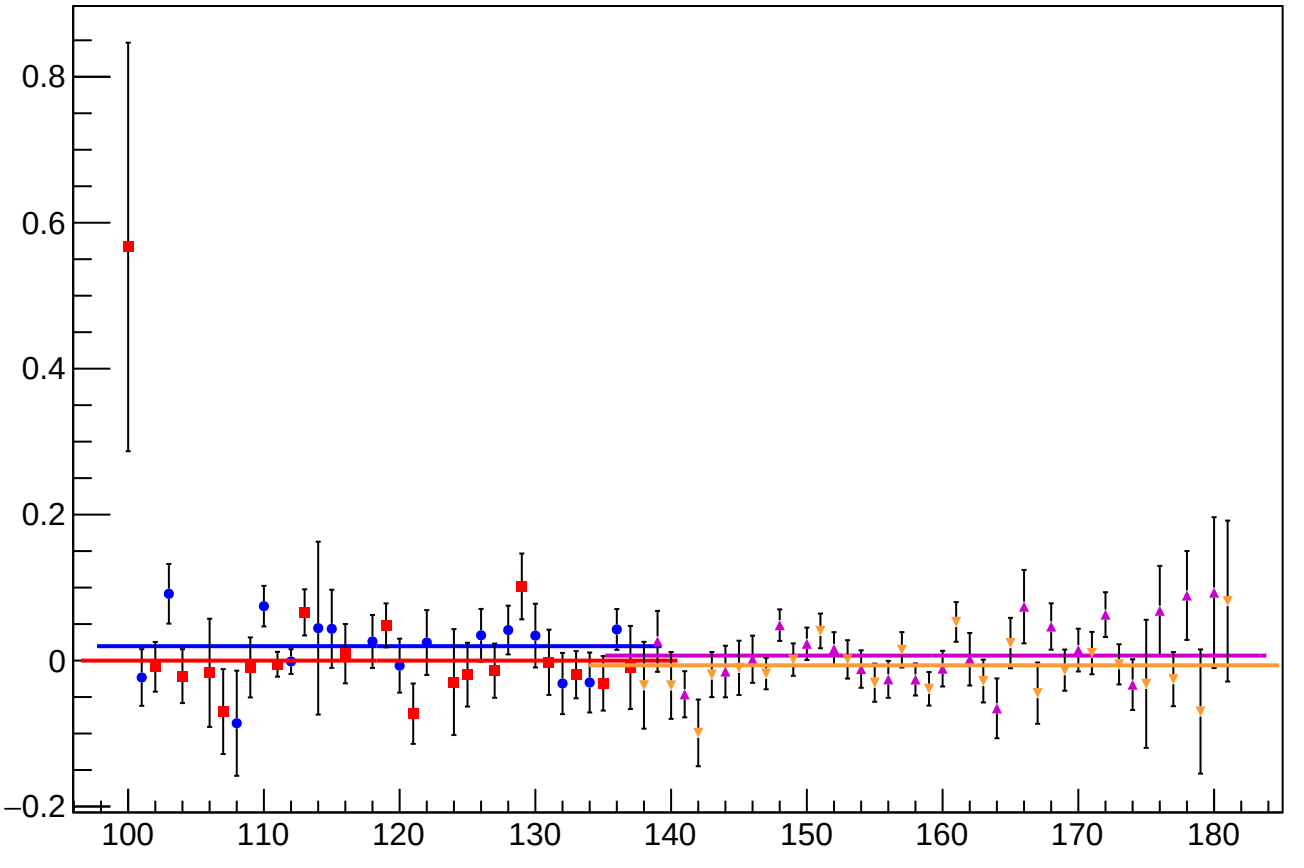
Right: 0.000+/-0.000 $\chi^2$/NDF: 44.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:35.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:58.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 96.1/78


asym_sam8_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1788731.6/15
Left Out: 0.000+/-0.000 χ²/NDF:1648969.1/22
Right Out: 0.000+/-0.000 χ²/NDF: 1442096.6/18
Left In: 0.000+/-0.000 χ²/NDF:1595967.5/20
Left: 0.000+/-0.000 χ²/NDF: 3246187.5/43
Right: 0.000+/-0.000 χ²/NDF: 3431603.8/34
In: 0.000+/-0.000 χ²/NDF:3723866.6/36
Out: 0.000+/-0.000 χ²/NDF:4199484.8/41
All: 0.000+/-0.000 χ²/NDF: 7923740.2/78




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.007+/-0.006 $\chi^2$/NDF:21.7/22

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: 0.007+/-0.007 $\chi^2$/NDF:27.5/20

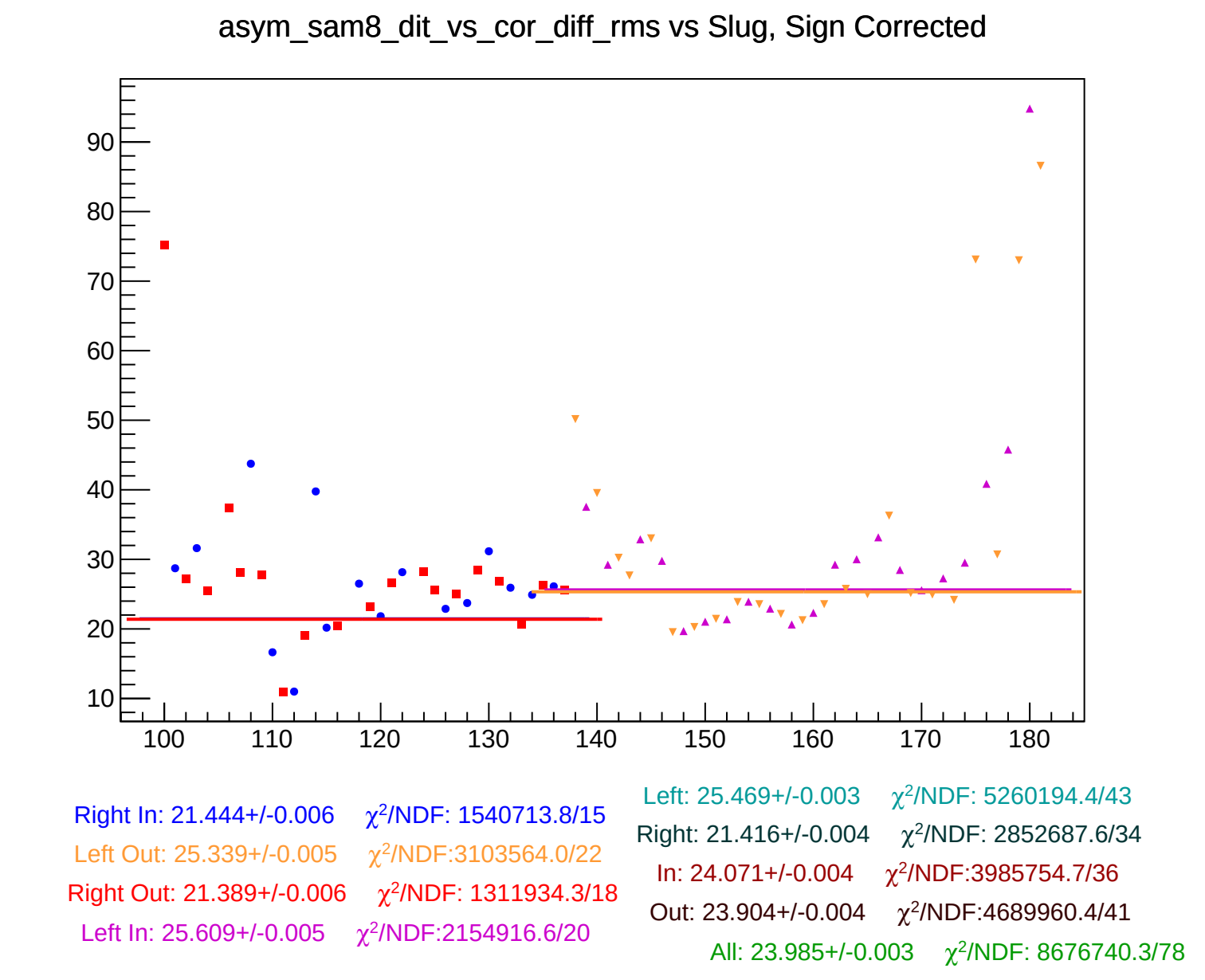
Left: -0.000+/-0.005 $\chi^2$/NDF: 51.3/43

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

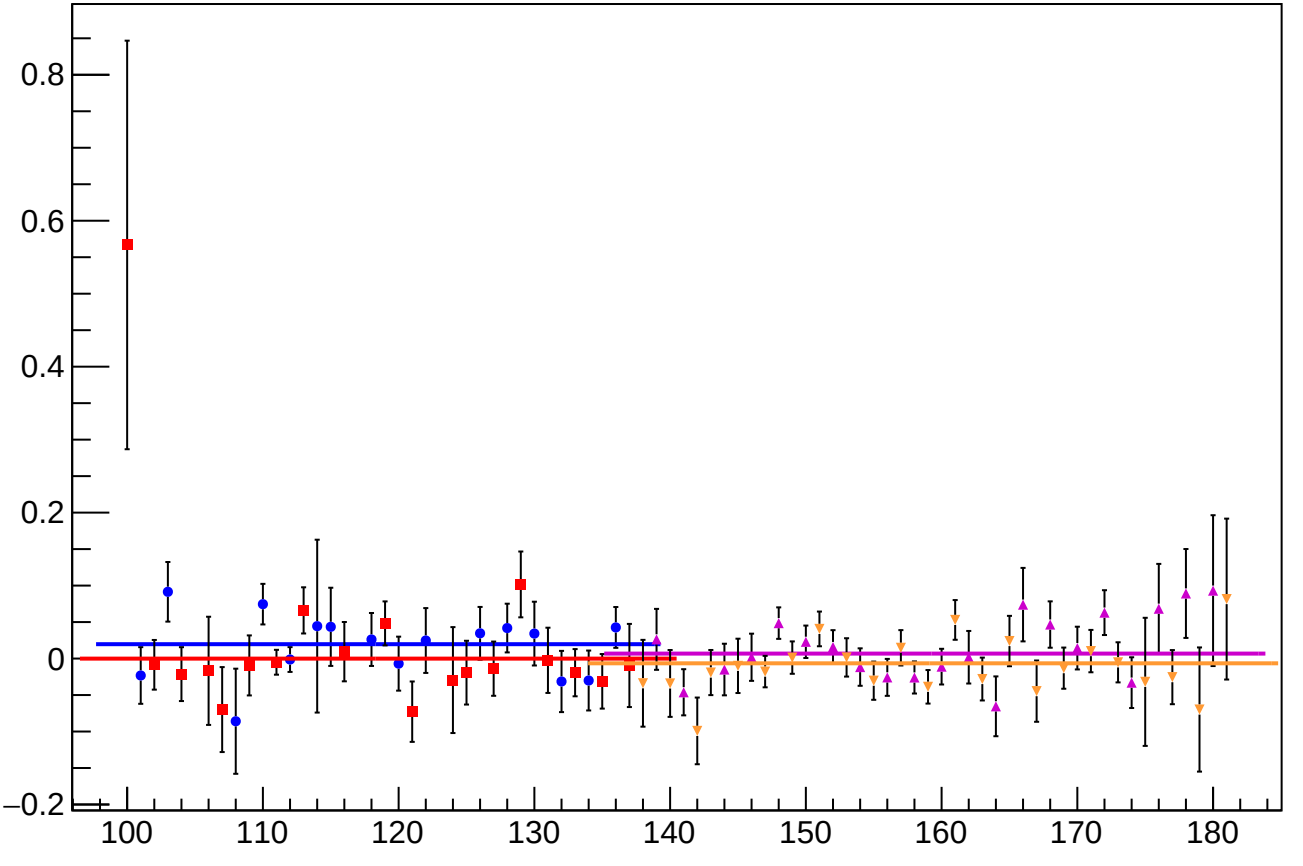
In: 0.012+/-0.005 $\chi^2$/NDF:45.9/36

Out: -0.004+/-0.005 $\chi^2$/NDF:44.9/41

All: 0.003+/-0.004 $\chi^2$/NDF: 95.4/78


asym_sam8_dit_vs_cor_diff_rms vs Slug, Sign Corrected
90
80
70
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 21.444+/-0.006 χ²/NDF: 1540713.8/15
Left Out: 25.339+/-0.005 χ²/NDF:3103564.0/22
Right Out: 21.389+/-0.006 χ²/NDF: 1311934.3/18
Left In: 25.609+/-0.005 χ²/NDF:2154916.6/20
Left: 25.469+/-0.003 χ²/NDF: 5260194.4/43
Right: 21.416+/-0.004 χ²/NDF: 2852687.6/34
In: 24.071+/-0.004 χ²/NDF:3985754.7/36
Out: 23.904+/-0.004 χ²/NDF:4689960.4/41
All: 23.985+/-0.003 χ²/NDF: 8676740.3/78

asym_sam8_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.007+/-0.006 $\chi^2$/NDF:21.7/22

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: 0.007+/-0.007 $\chi^2$/NDF:27.5/20

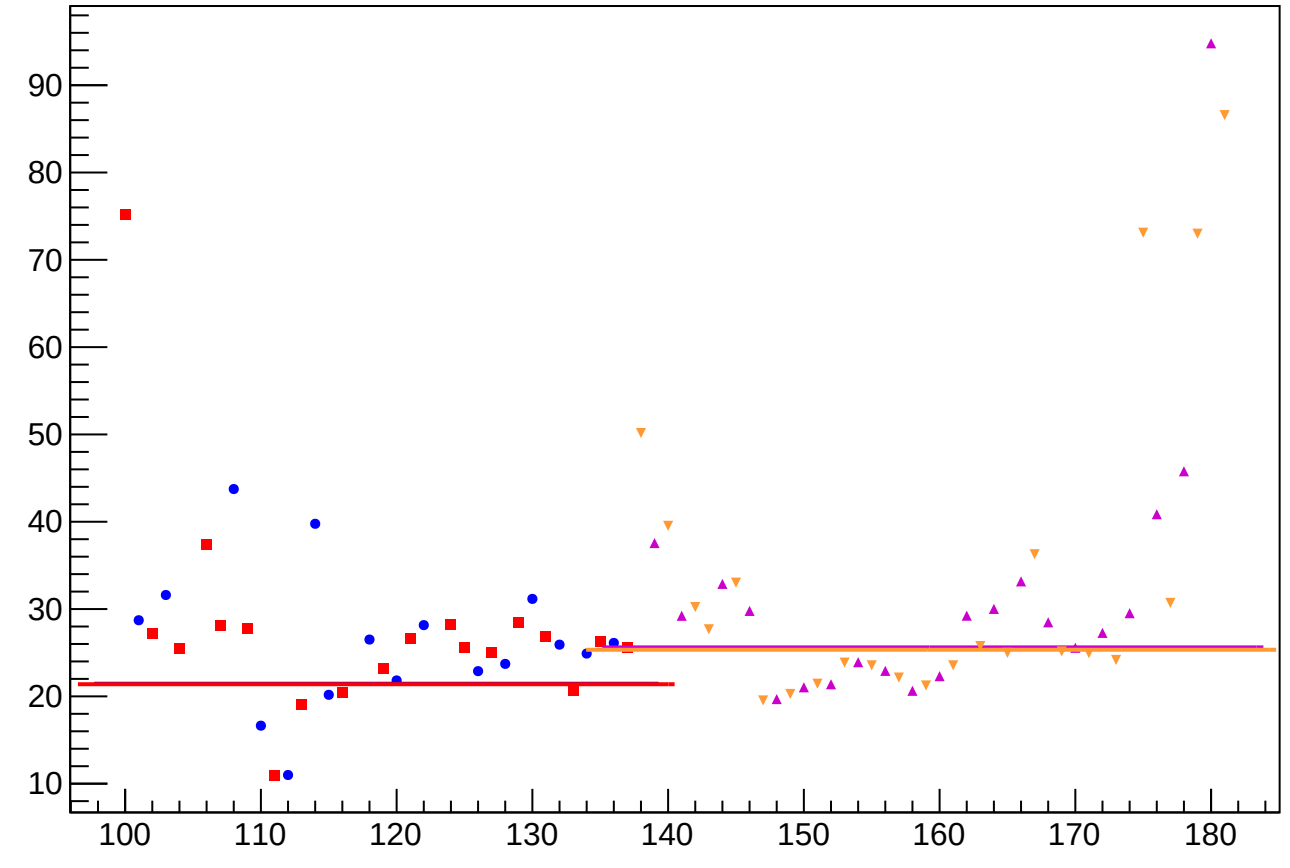
Left: -0.000+/-0.005 $\chi^2$/NDF: 51.3/43

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.012+/-0.005 $\chi^2$/NDF:45.9/36

Out: -0.004+/-0.005 $\chi^2$/NDF:44.9/41

All: 0.003+/-0.004 $\chi^2$/NDF: 95.4/78




Right In: 21.444+/-0.006 $\chi^2$/NDF: 1540713.8/15

Left Out: 25.339+/-0.005 $\chi^2$/NDF:3103564.0/22

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1311934.3/18

Left In: 25.609+/-0.005 $\chi^2$/NDF:2154916.6/20

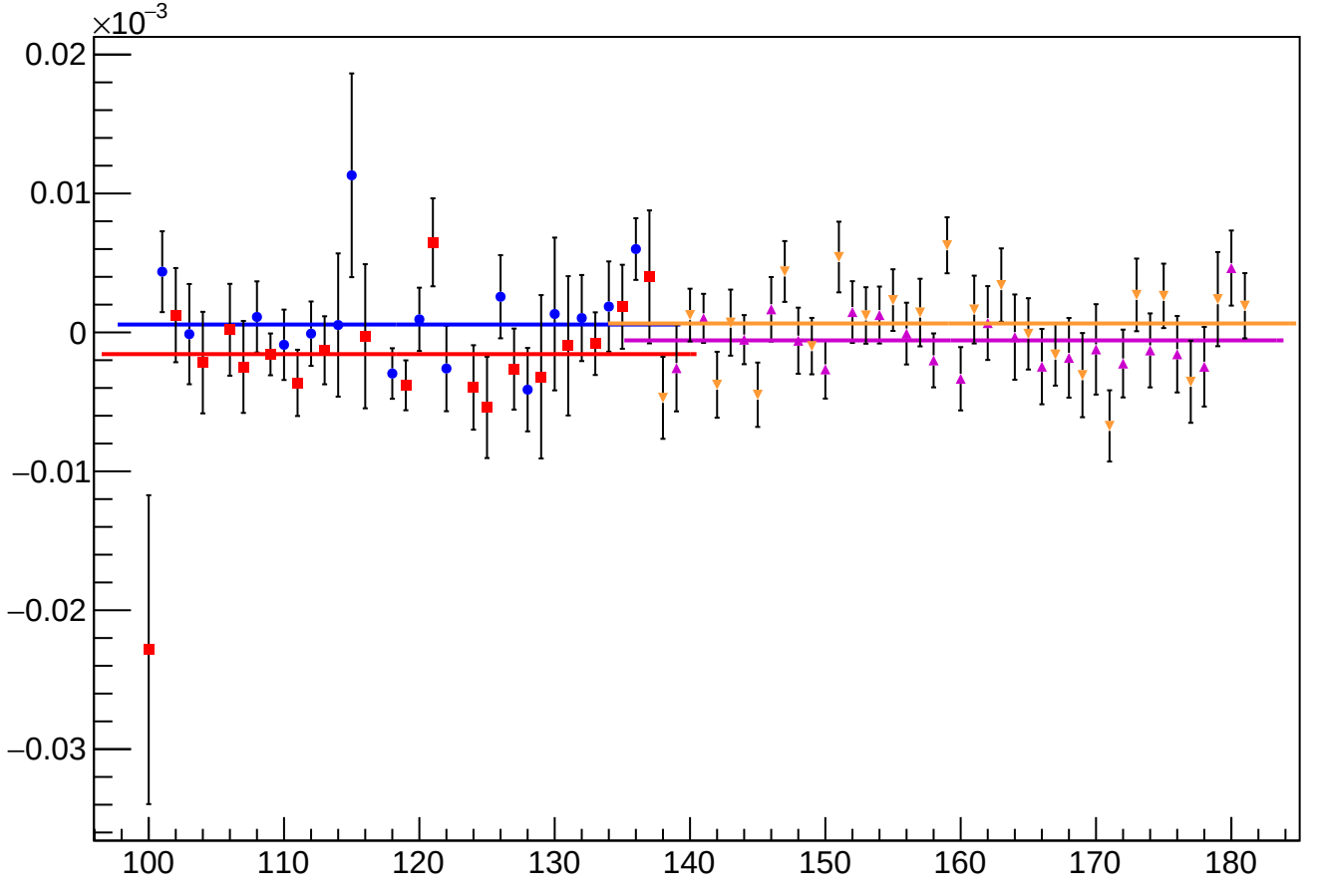
Left: 25.469+/-0.003 $\chi^2$/NDF: 5260194.4/43

Right: 21.416+/-0.004 $\chi^2$/NDF: 2852687.6/34

In: 24.071+/-0.004 $\chi^2$/NDF:3985754.7/36

Out: 23.904+/-0.004 $\chi^2$/NDF:4689960.4/41

All: 23.985+/-0.003 $\chi^2$/NDF: 8676740.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:43.5/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:12.6/20

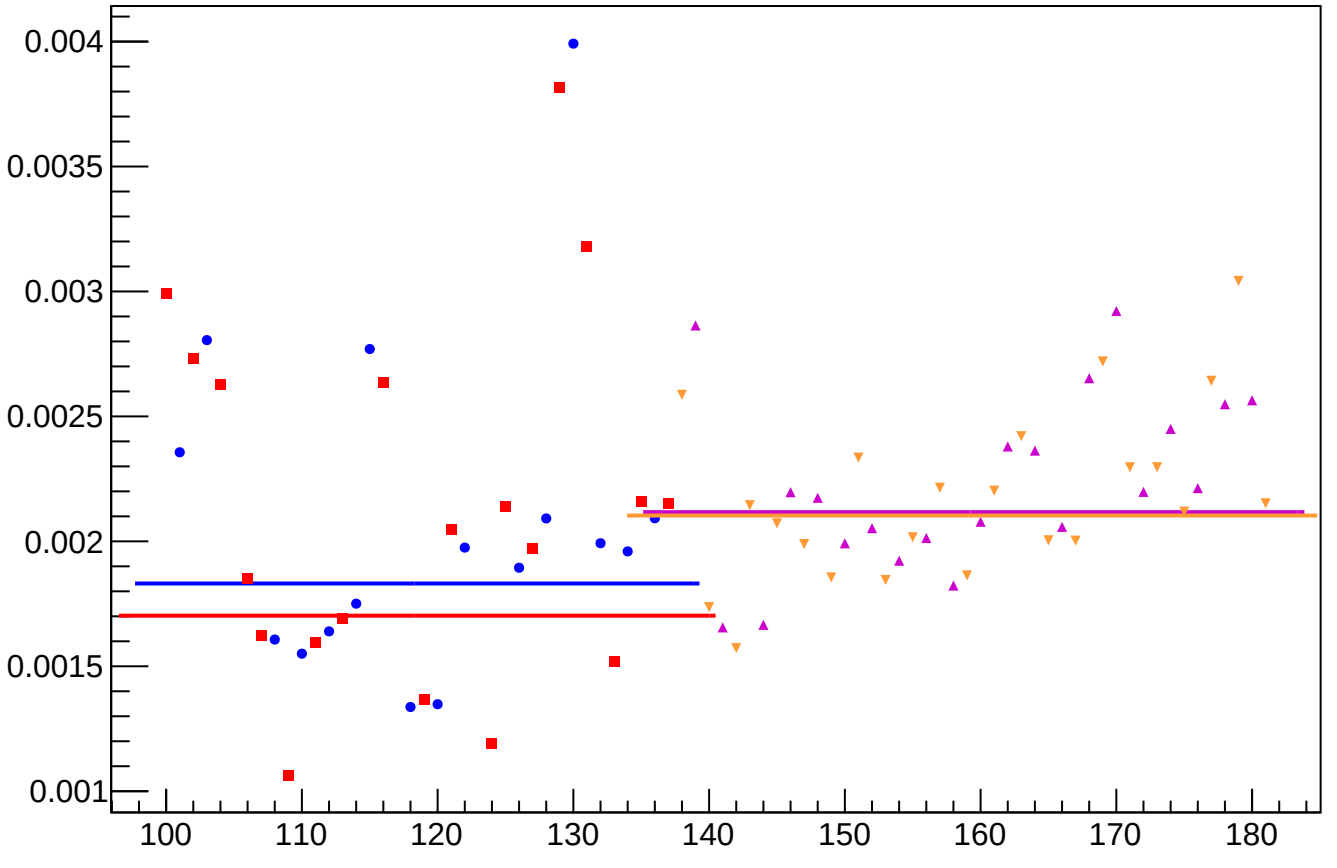
Left: 0.000+/-0.000 $\chi^2$/NDF: 59.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:32.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:68.9/41

All: -0.000+/-0.000 $\chi^2$/NDF: 101.5/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 900406.1/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:713940.3/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 1478057.9/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:824804.3/20

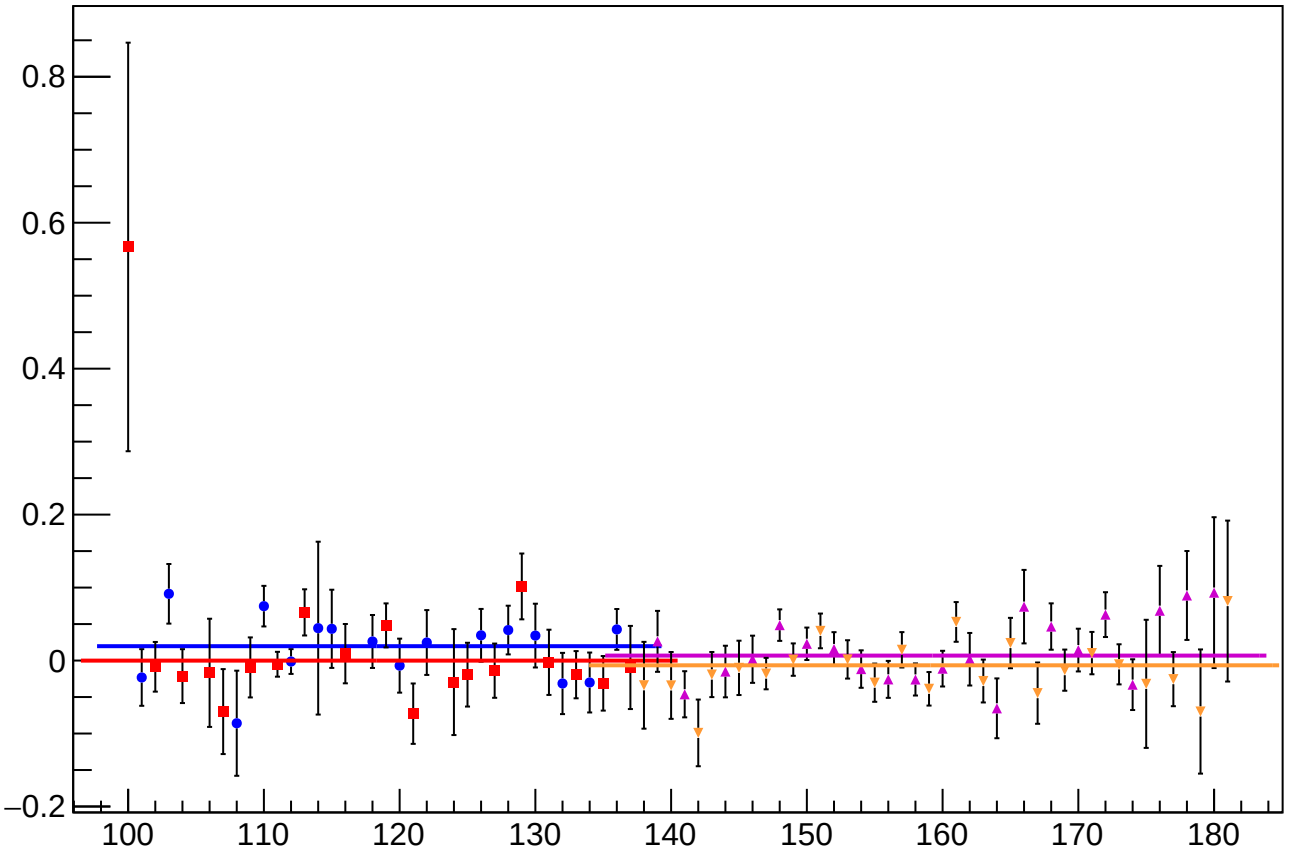
Left: 0.002+/-0.000 $\chi^2$/NDF: 1539447.2/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 2413966.0/34

In: 0.002+/-0.000 $\chi^2$/NDF:1937727.3/36

Out: 0.002+/-0.000 $\chi^2$/NDF:2663016.9/41

All: 0.002+/-0.000 $\chi^2$/NDF: 4621887.2/78




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.007+/-0.006 $\chi^2$/NDF:21.7/22

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: 0.007+/-0.007 $\chi^2$/NDF:27.5/20

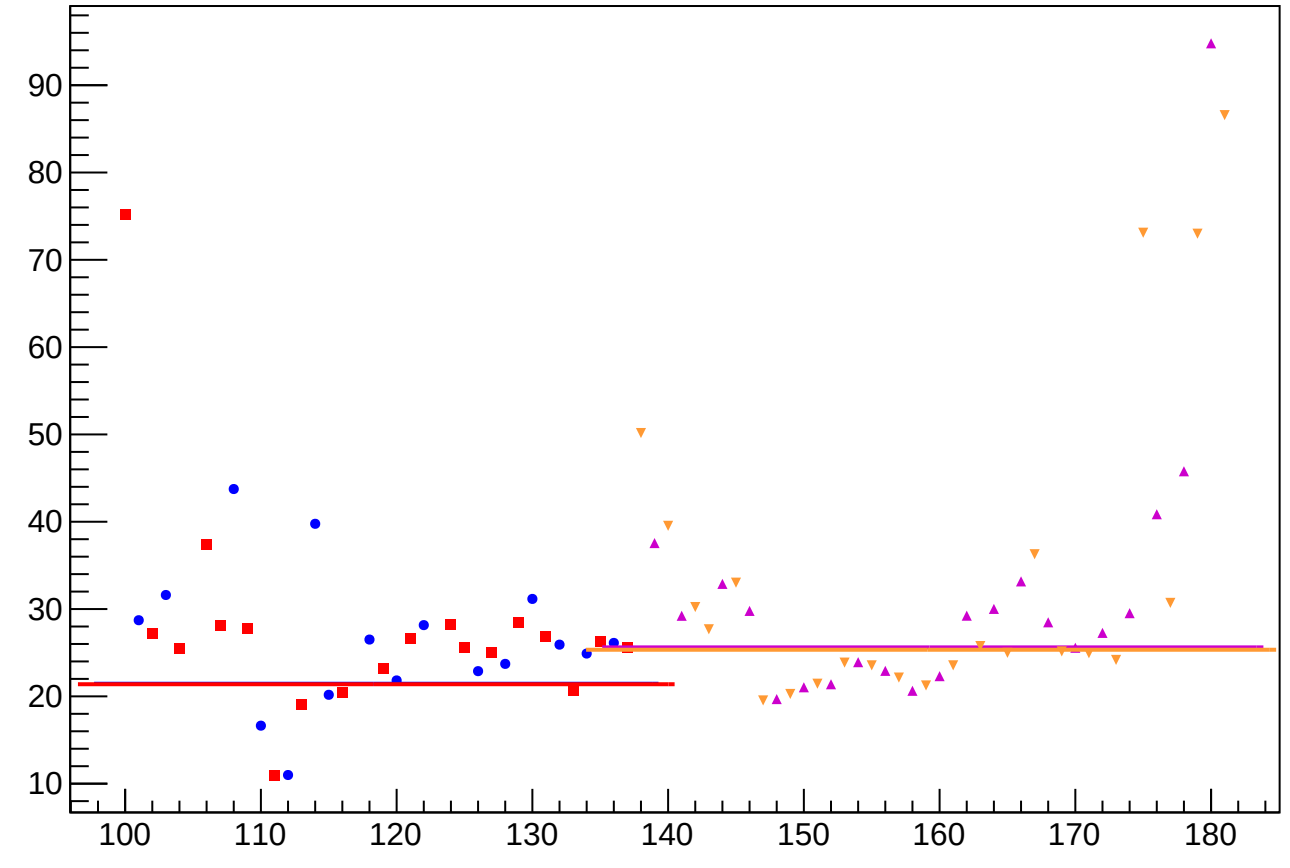
Left: -0.000+/-0.005 $\chi^2$/NDF: 51.3/43

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.012+/-0.005 $\chi^2$/NDF:45.9/36

Out: -0.004+/-0.005 $\chi^2$/NDF:44.9/41

All: 0.003+/-0.004 $\chi^2$/NDF: 95.4/78




Right In: 21.443+/-0.006 $\chi^2$/NDF: 1540859.8/15

Left Out: 25.339+/-0.005 $\chi^2$/NDF:3103573.9/22

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1312055.7/18

Left In: 25.609+/-0.005 $\chi^2$/NDF:2154898.4/20

Left: 25.469+/-0.003 $\chi^2$/NDF: 5260186.5/43

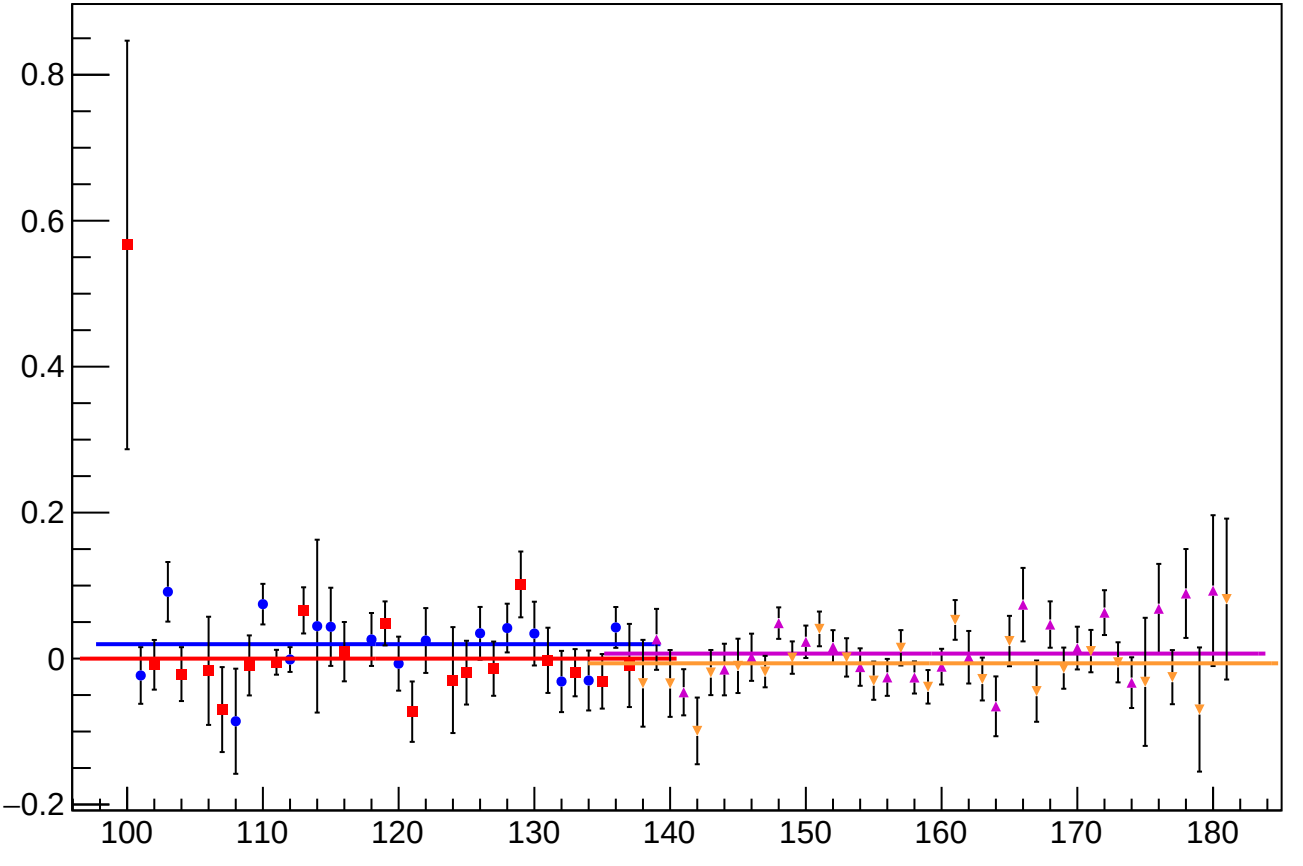
Right: 21.415+/-0.004 $\chi^2$/NDF: 2852955.1/34

In: 24.070+/-0.004 $\chi^2$/NDF:3986003.5/36

Out: 23.904+/-0.004 $\chi^2$/NDF:4690204.2/41

All: 23.985+/-0.003 $\chi^2$/NDF: 8677232.9/78

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.007+/-0.006 $\chi^2$/NDF:21.7/22

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: 0.007+/-0.007 $\chi^2$/NDF:27.5/20

Left: -0.000+/-0.005 $\chi^2$/NDF: 51.3/43

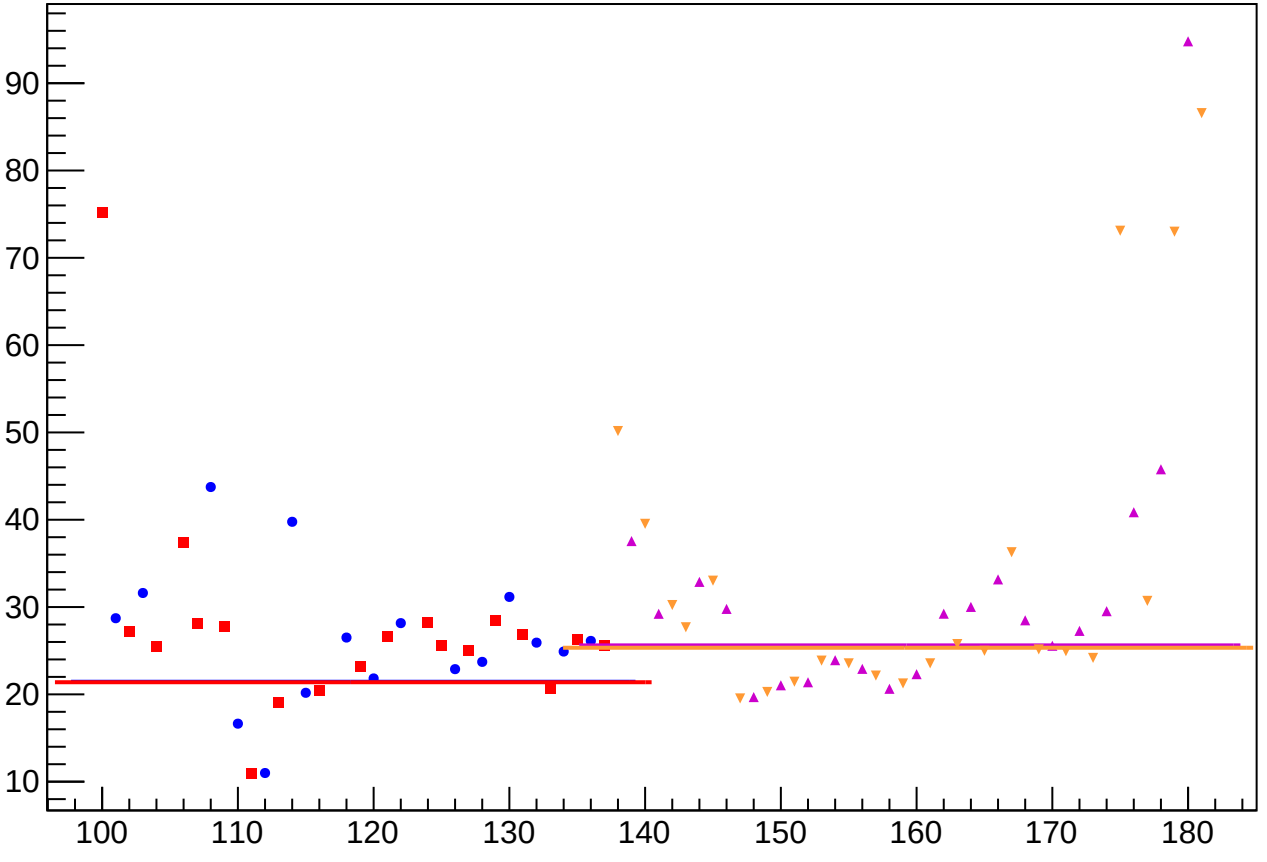
Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.012+/-0.005 $\chi^2$/NDF:45.9/36

Out: -0.004+/-0.005 $\chi^2$/NDF:44.9/41

All: 0.003+/-0.004 $\chi^2$/NDF: 95.4/78

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.443+/-0.006 $\chi^2$/NDF: 1540859.8/15

Left Out: 25.339+/-0.005 $\chi^2$/NDF:3103573.9/22

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1312055.7/18

Left In: 25.609+/-0.005 $\chi^2$/NDF:2154898.4/20

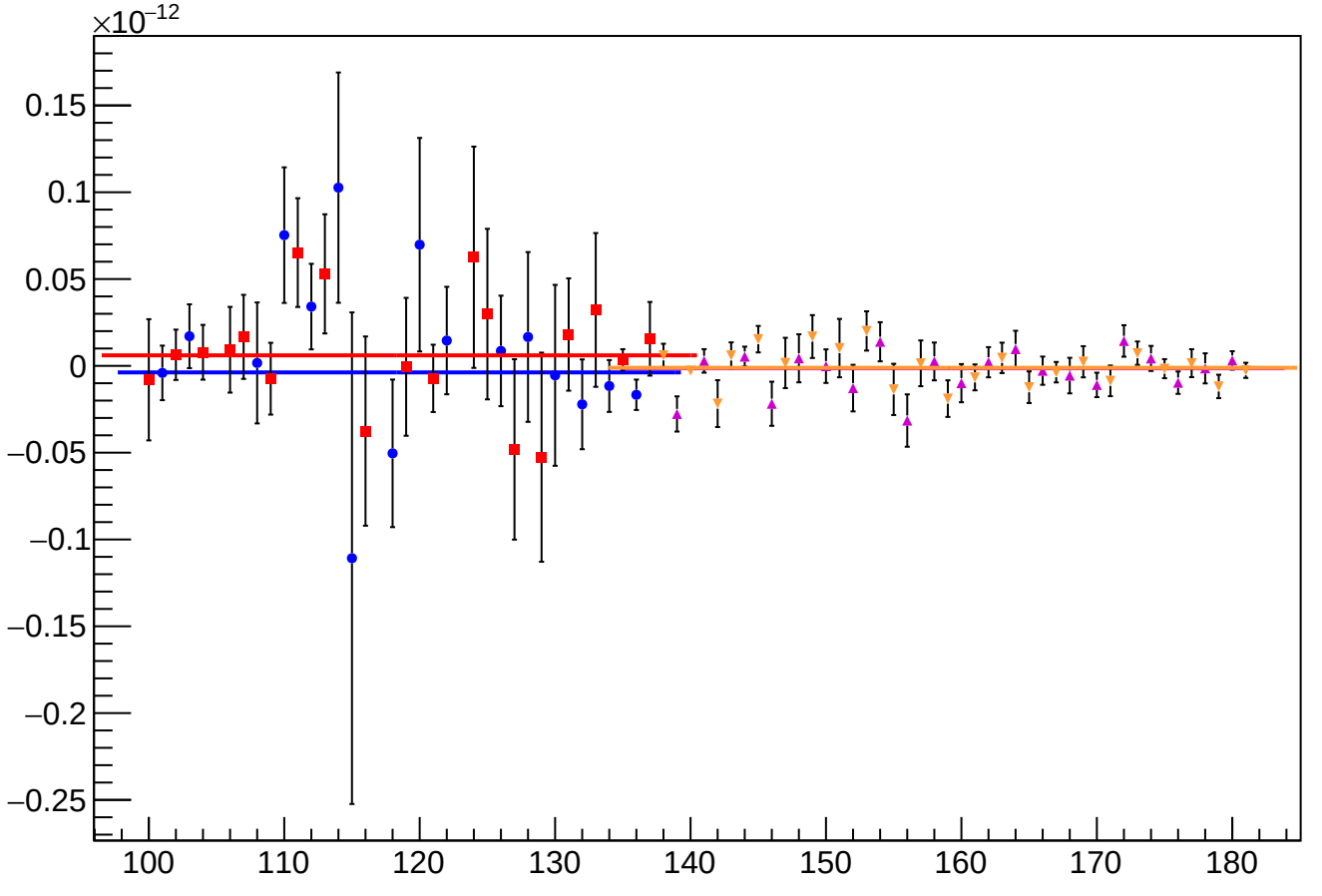
Left: 25.469+/-0.003 $\chi^2$/NDF: 5260186.5/43

Right: 21.415+/-0.004 $\chi^2$/NDF: 2852955.1/34

In: 24.070+/-0.004 $\chi^2$/NDF:3986003.5/36

Out: 23.904+/-0.004 $\chi^2$/NDF:4690204.2/41

All: 23.985+/-0.003 $\chi^2$/NDF: 8677232.9/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:27.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.9/20

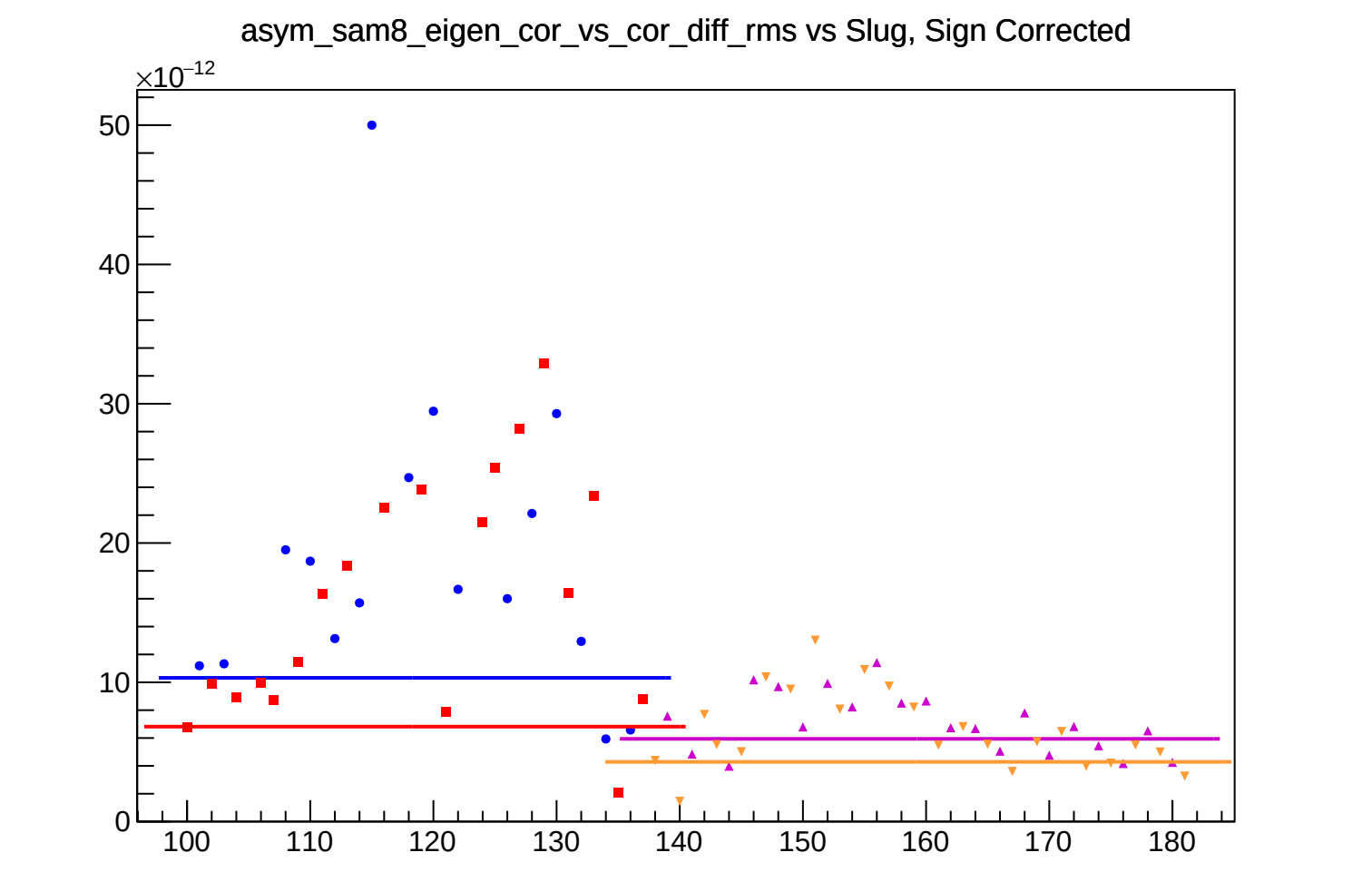
Left: -0.000+/-0.000 $\chi^2$/NDF: 54.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:45.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:40.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 86.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1951308.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5277554.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4021812.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2044935.1/20

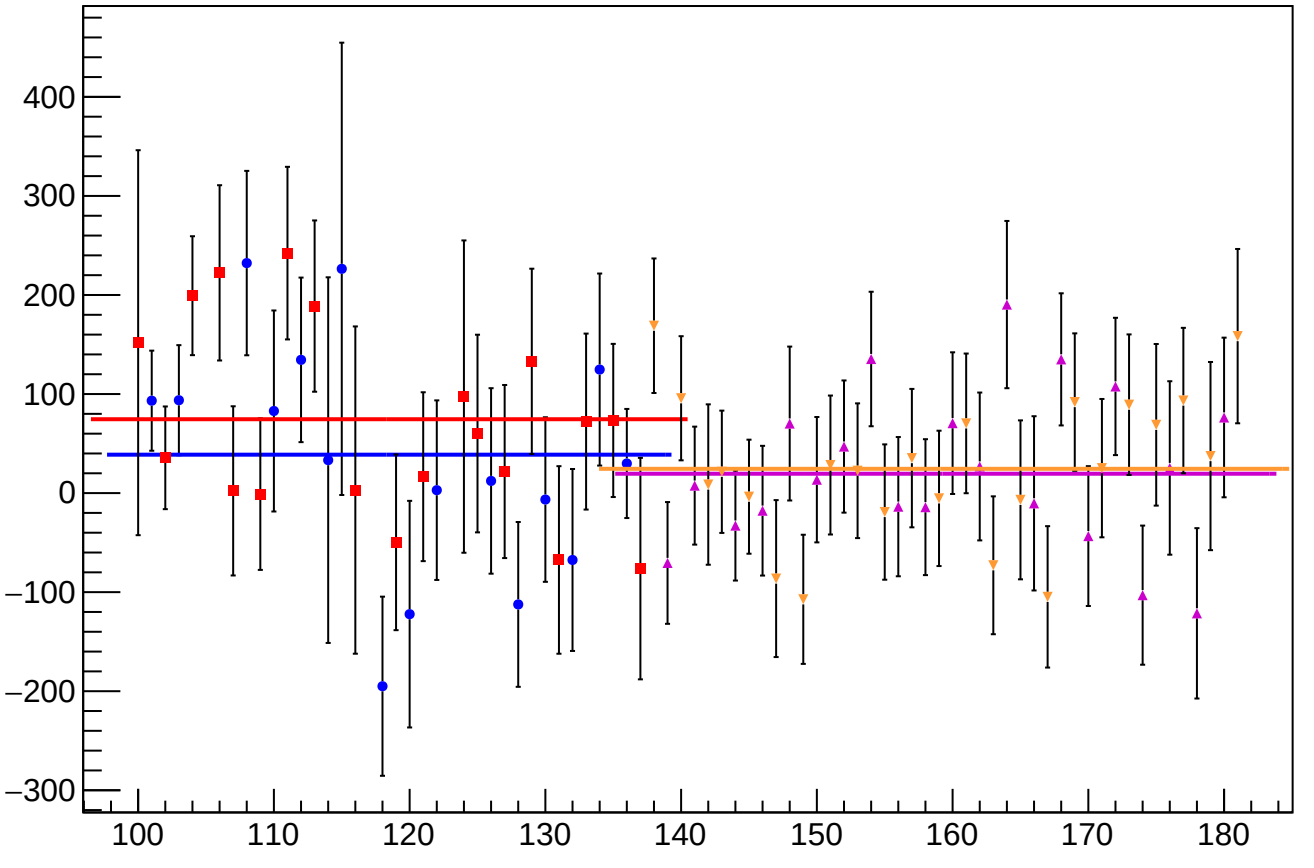
Left: 0.000+/-0.000 $\chi^2$/NDF: 8300263.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 6473556.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:5135031.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:9910218.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 16399011.7/78




Right In: 38.782+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 24.514+/-14.773 $\chi^2$/NDF:23.9/22

Right Out: 74.578+/-19.802 $\chi^2$/NDF: 22.5/18

Left In: 19.547+/-15.290 $\chi^2$/NDF:23.8/20

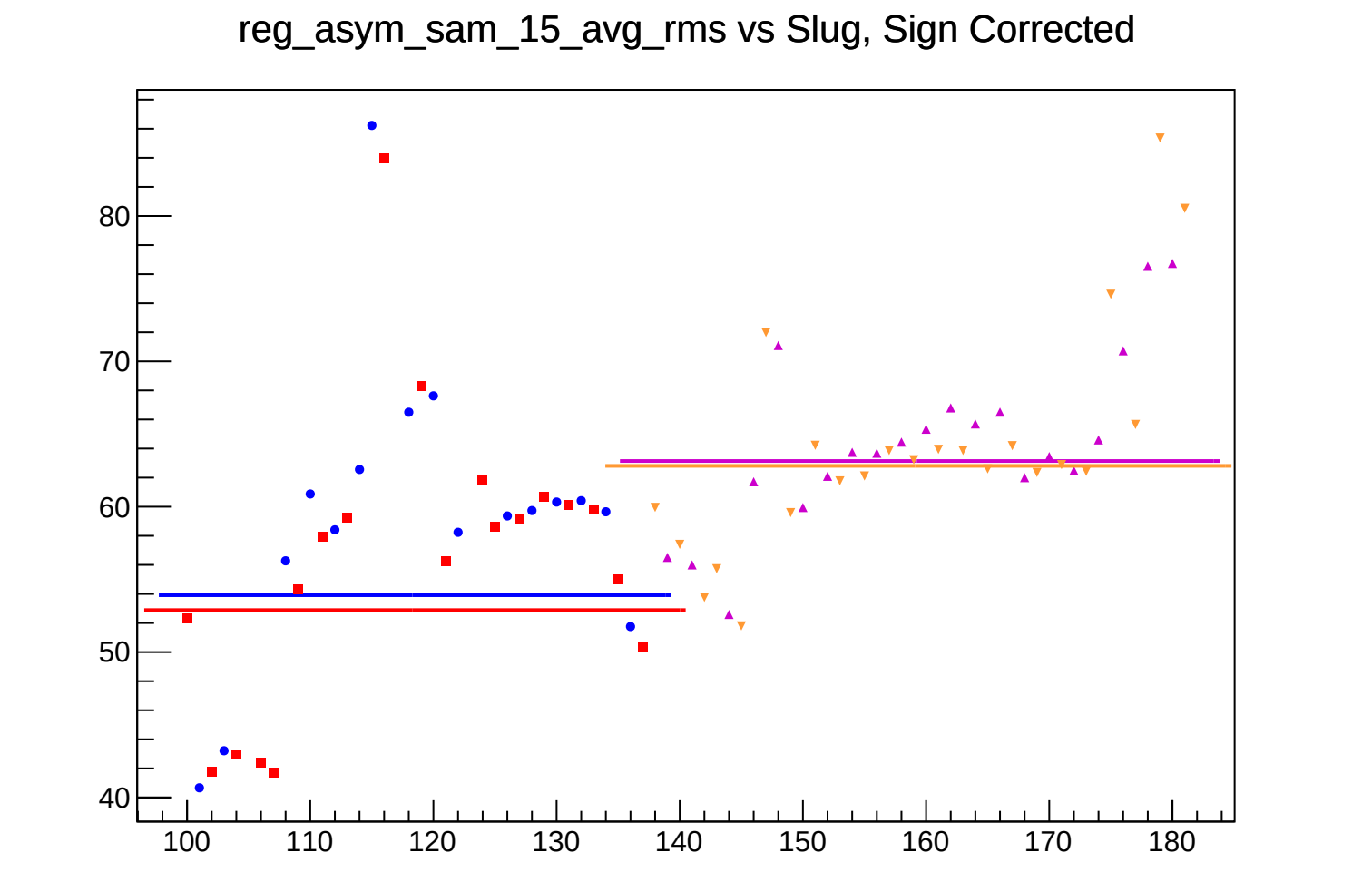
Left: 22.116+/-10.624 $\chi^2$/NDF: 47.7/43

Right: 57.224+/-14.213 $\chi^2$/NDF: 47.3/34

In: 26.461+/-12.238 $\chi^2$/NDF:47.6/36

Out: 42.415+/-11.841 $\chi^2$/NDF:50.4/41

All: 34.701+/-8.510 $\chi^2$/NDF: 98.9/78




Right In: 53.912+/-0.014 $\chi^2$/NDF: 393261.4/15

Left Out: 62.808+/-0.010 $\chi^2$/NDF:417072.2/22

Right Out: 52.889+/-0.014 $\chi^2$/NDF: 425226.7/18

Left In: 63.144+/-0.011 $\chi^2$/NDF:286356.5/20

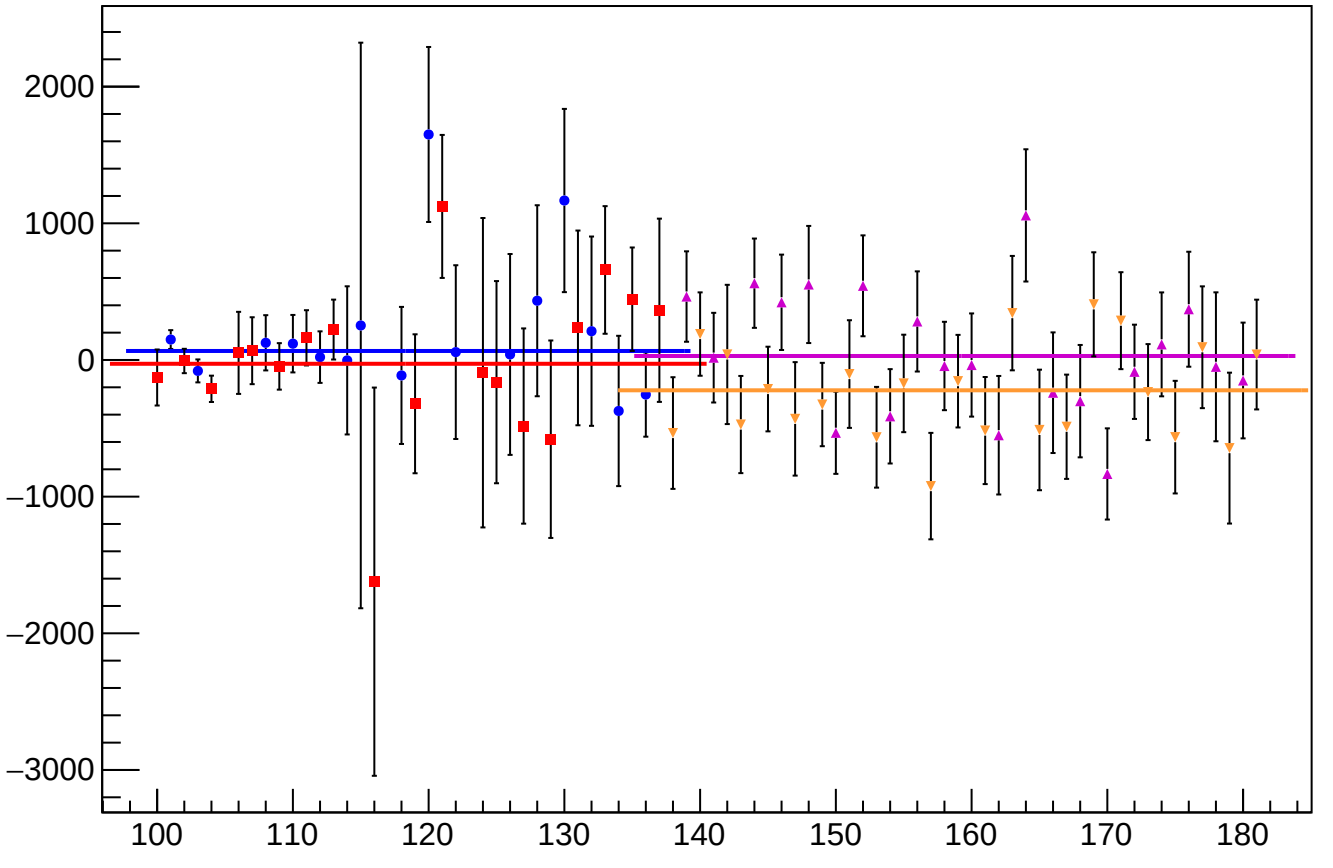
Left: 62.970+/-0.008 $\chi^2$/NDF: 703927.4/43

Right: 53.385+/-0.010 $\chi^2$/NDF: 821077.5/34

In: 59.826+/-0.009 $\chi^2$/NDF:941657.1/36

Out: 59.262+/-0.008 $\chi^2$/NDF:1164726.8/41

All: 59.534+/-0.006 $\chi^2$/NDF: 2108580.8/78




Right In: 65.853+/-46.478 $\chi^2$/NDF: 15.7/15

Left Out: -221.918+/-79.047 $\chi^2$/NDF:18.1/22

Right Out: -27.850+/-50.291 $\chi^2$/NDF: 18.0/18

Left In: 29.170+/-81.158 $\chi^2$/NDF:29.8/20

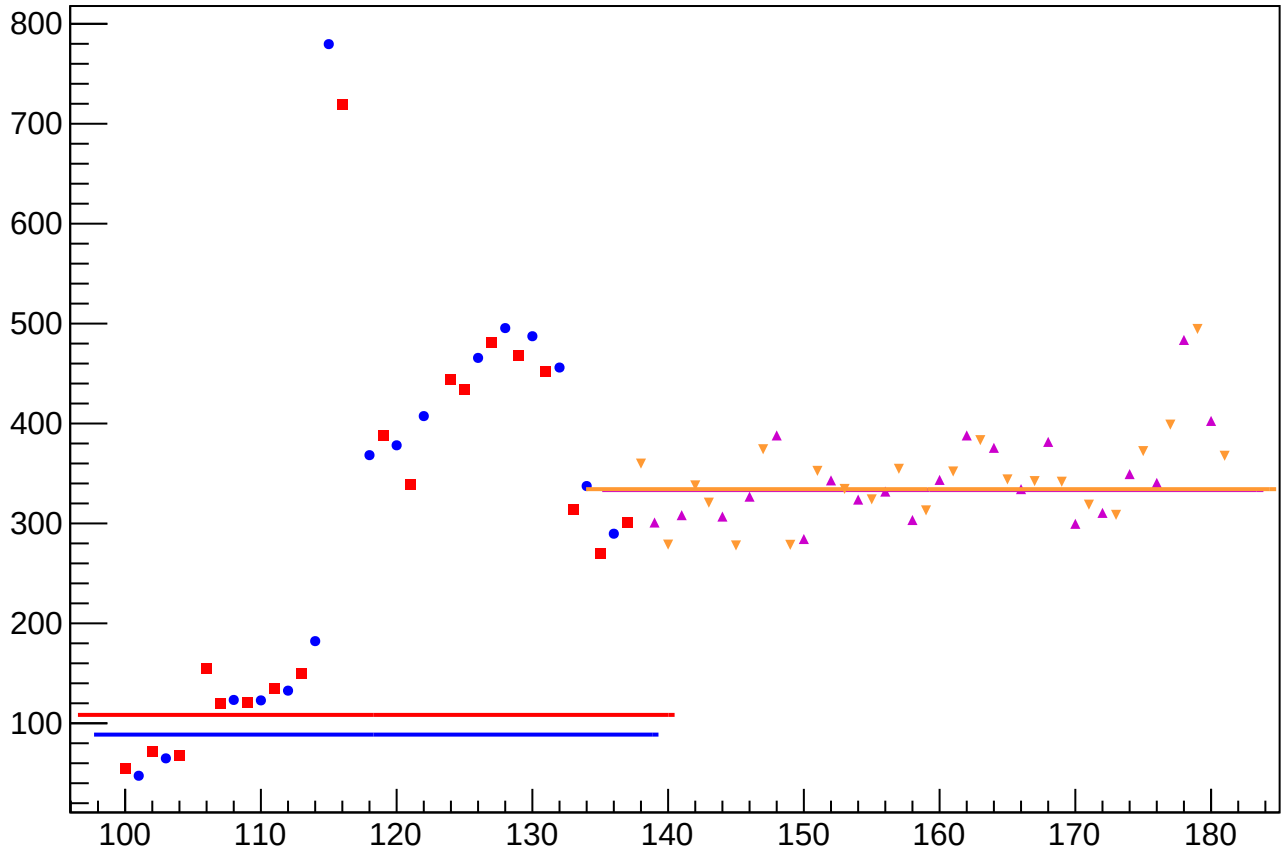
Left: -99.683+/-56.626 $\chi^2$/NDF: 52.8/43

Right: 22.688+/-34.134 $\chi^2$/NDF: 35.6/34

In: 56.793+/-40.333 $\chi^2$/NDF:45.7/36

Out: -83.770+/-42.432 $\chi^2$/NDF:40.4/41

All: -9.926+/-29.233 $\chi^2$/NDF: 91.8/78




Right In: 88.658+/-0.033 $\chi^2$/NDF: 6648055.6/15

Left Out: 334.299+/-0.056 $\chi^2$/NDF:537984.5/22

Right Out: 108.385+/-0.036 $\chi^2$/NDF: 5362841.6/18

Left In: 333.380+/-0.057 $\chi^2$/NDF:465494.6/20

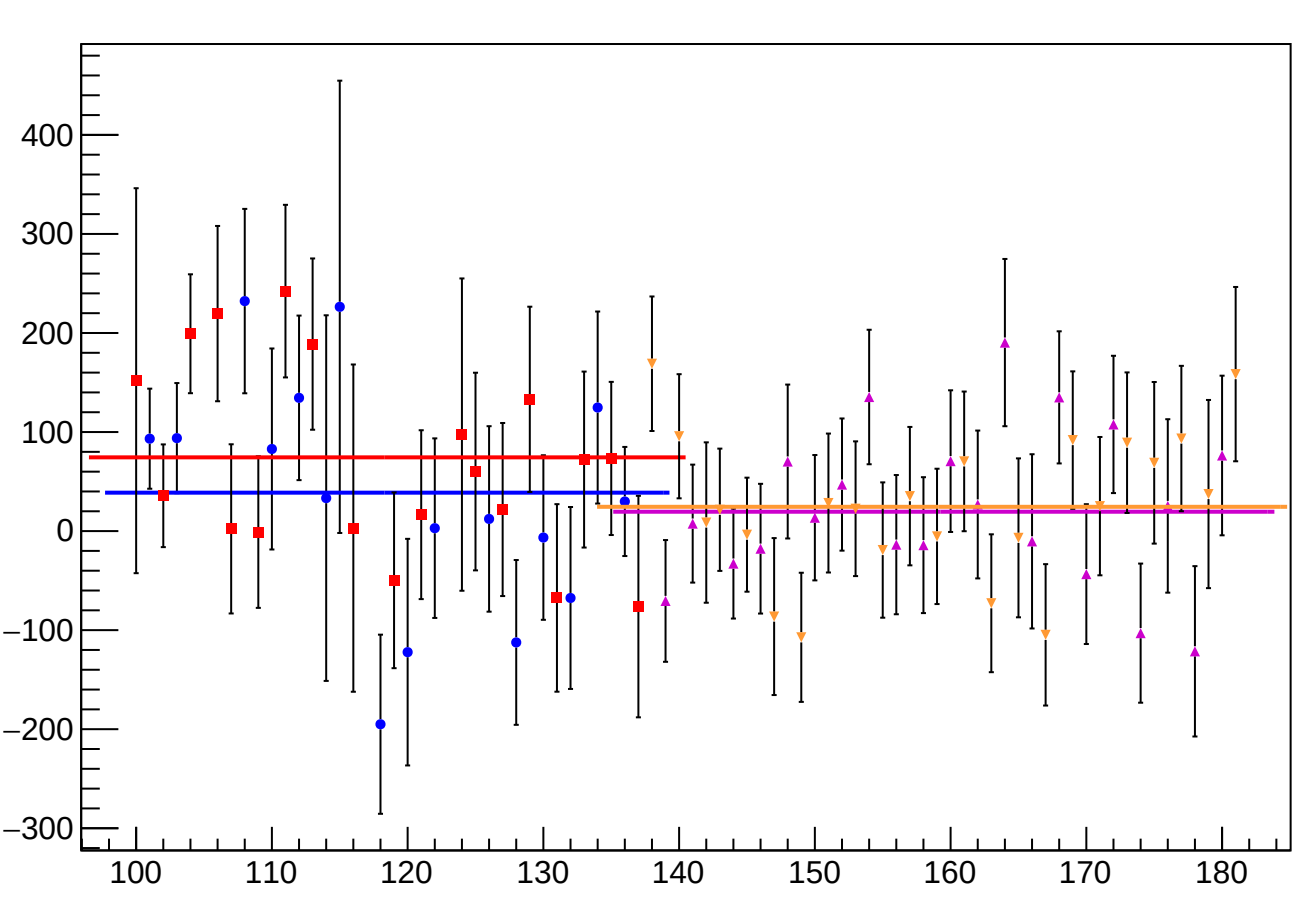
Left: 333.851+/-0.040 $\chi^2$/NDF: 1003610.8/43

Right: 97.745+/-0.024 $\chi^2$/NDF: 12176874.0/34

In: 149.097+/-0.029 $\chi^2$/NDF:20807239.1/36

Out: 173.481+/-0.030 $\chi^2$/NDF:17529760.9/41

All: 160.671+/-0.021 $\chi^2$/NDF: 38683973.9/78




Right In: 38.794+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 24.516+/-14.773 $\chi^2$/NDF:23.9/22

Right Out: 74.442+/-19.803 $\chi^2$/NDF: 22.3/18

Left In: 19.547+/-15.290 $\chi^2$/NDF:23.8/20

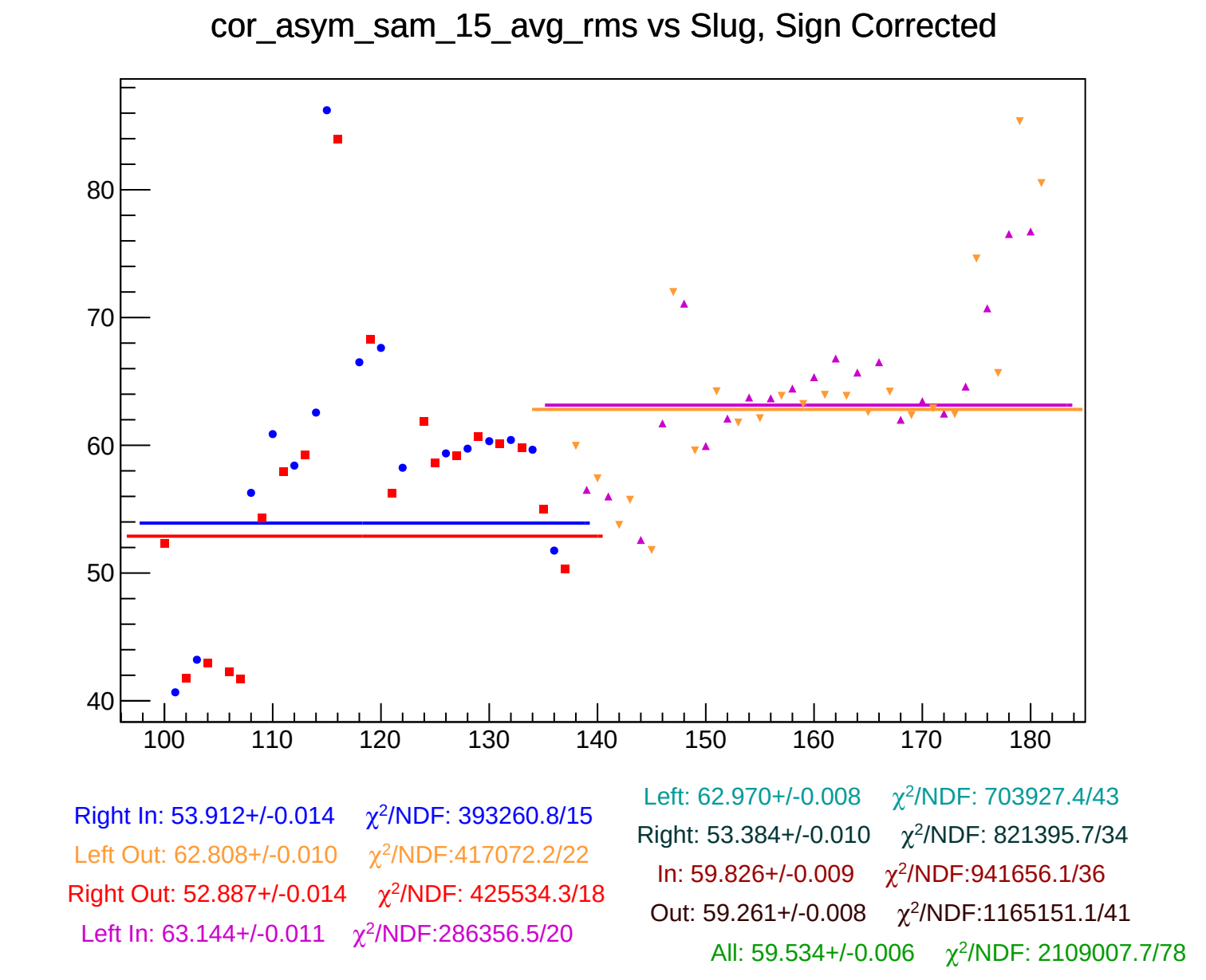
Left: 22.117+/-10.624 $\chi^2$/NDF: 47.7/43

Right: 57.159+/-14.214 $\chi^2$/NDF: 47.2/34

In: 26.464+/-12.238 $\chi^2$/NDF:47.6/36

Out: 42.365+/-11.841 $\chi^2$/NDF:50.3/41

All: 34.677+/-8.510 $\chi^2$/NDF: 98.8/78


cor_asym_sam_15_avg_rms vs Slug, Sign Corrected
80
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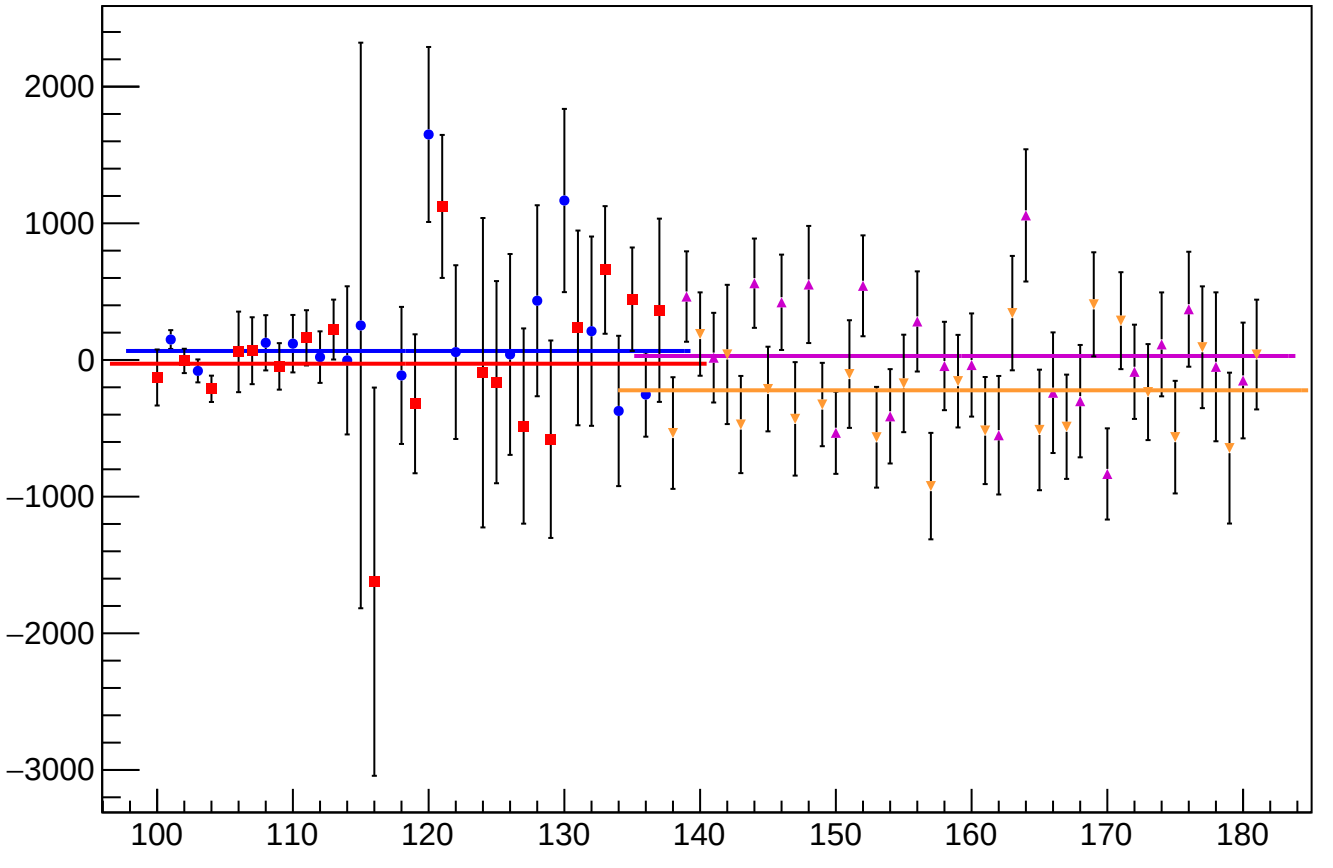
180
Right In: 53.912+/-0.014 χ²/NDF: 393260.8/15
Left Out: 62.808+/-0.010 χ²/NDF:417072.2/22
Right Out: 52.887+/-0.014 χ²/NDF: 425534.3/18
Left In: 63.144+/-0.011 χ²/NDF:286356.5/20
Left: 62.970+/-0.008 χ²/NDF: 703927.4/43
Right: 53.384+/-0.010 χ²/NDF: 821395.7/34
In: 59.826+/-0.009 χ²/NDF:941656.1/36
Out: 59.261+/-0.008 χ²/NDF:1165151.1/41
All: 59.534+/-0.006 χ²/NDF: 2109007.7/78




Right In: 65.857+/-46.477 $\chi^2$/NDF: 15.7/15

Left Out: -221.916+/-79.047 $\chi^2$/NDF:18.1/22

Right Out: -27.406+/-50.249 $\chi^2$/NDF: 18.0/18

Left In: 29.167+/-81.158 $\chi^2$/NDF:29.8/20

Left: -99.683+/-56.626 $\chi^2$/NDF: 52.8/43

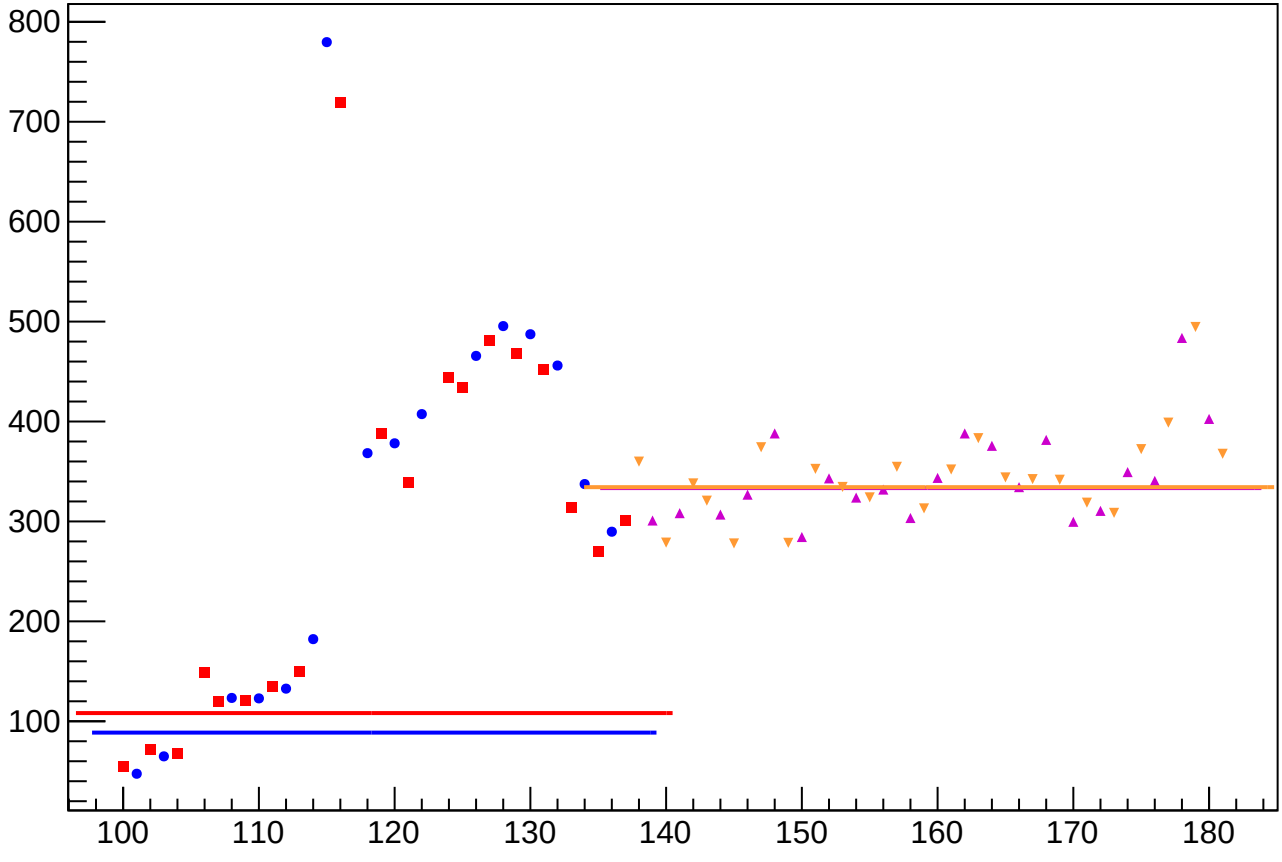
Right: 22.856+/-34.120 $\chi^2$/NDF: 35.6/34

In: 56.796+/-40.332 $\chi^2$/NDF:45.7/36

Out: -83.385+/-42.406 $\chi^2$/NDF:40.4/41

All: -9.783+/-29.225 $\chi^2$/NDF: 91.8/78

asym_sam_15_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 88.655+/-0.033 $\chi^2$/NDF: 6648135.5/15

Left Out: 334.299+/-0.056 $\chi^2$/NDF:537981.2/22

Right Out: 108.207+/-0.036 $\chi^2$/NDF: 5354864.8/18

Left In: 333.379+/-0.057 $\chi^2$/NDF:465500.0/20

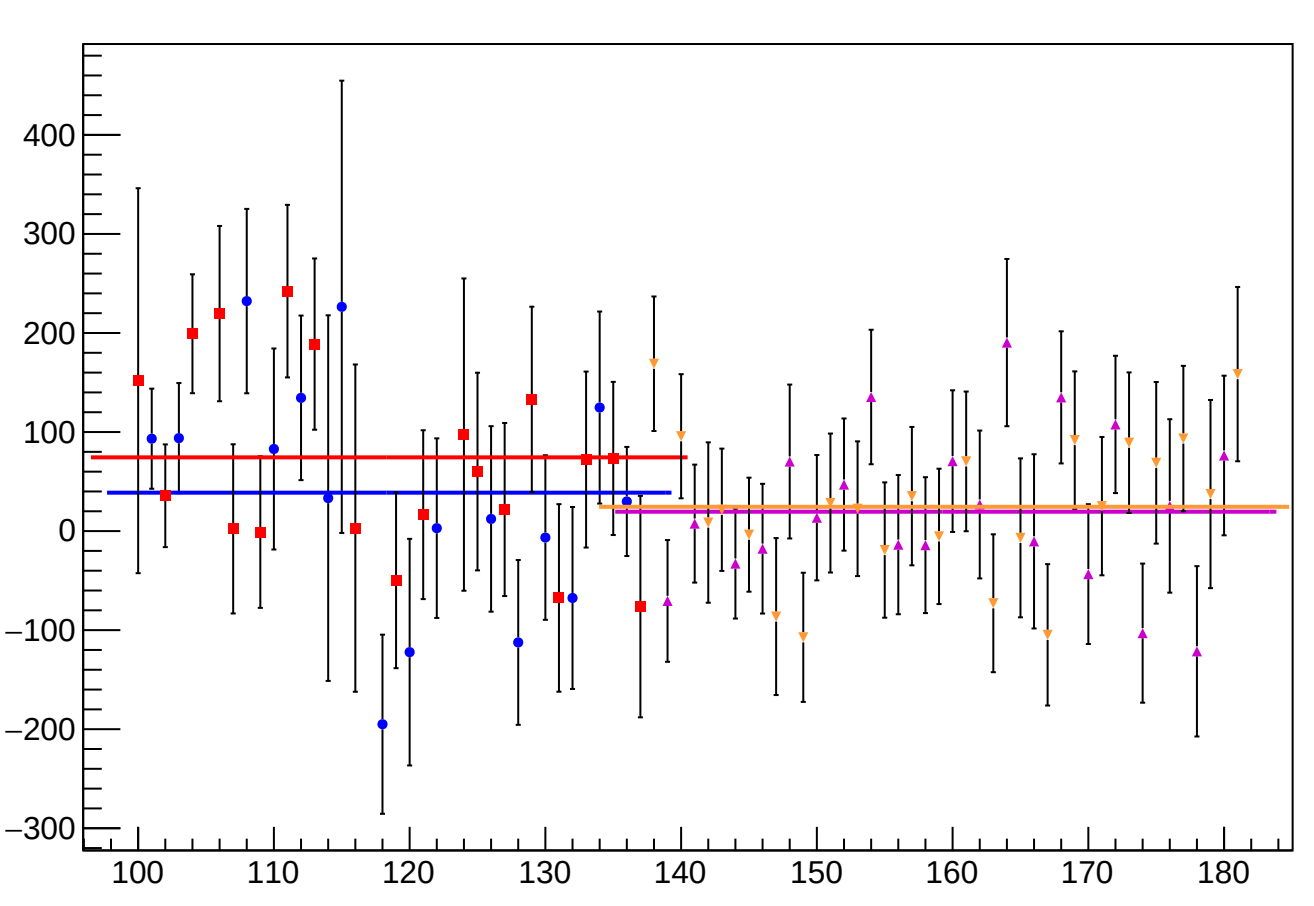
Left: 333.851+/-0.040 $\chi^2$/NDF: 1003612.9/43

Right: 97.670+/-0.024 $\chi^2$/NDF: 12166180.8/34

In: 149.093+/-0.029 $\chi^2$/NDF:20807744.1/36

Out: 173.275+/-0.030 $\chi^2$/NDF:17545887.2/41

All: 160.579+/-0.021 $\chi^2$/NDF: 38695100.8/78




Right In: 38.794+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 24.516+/-14.773 $\chi^2$/NDF:23.9/22

Right Out: 74.442+/-19.803 $\chi^2$/NDF: 22.3/18

Left In: 19.547+/-15.290 $\chi^2$/NDF:23.8/20

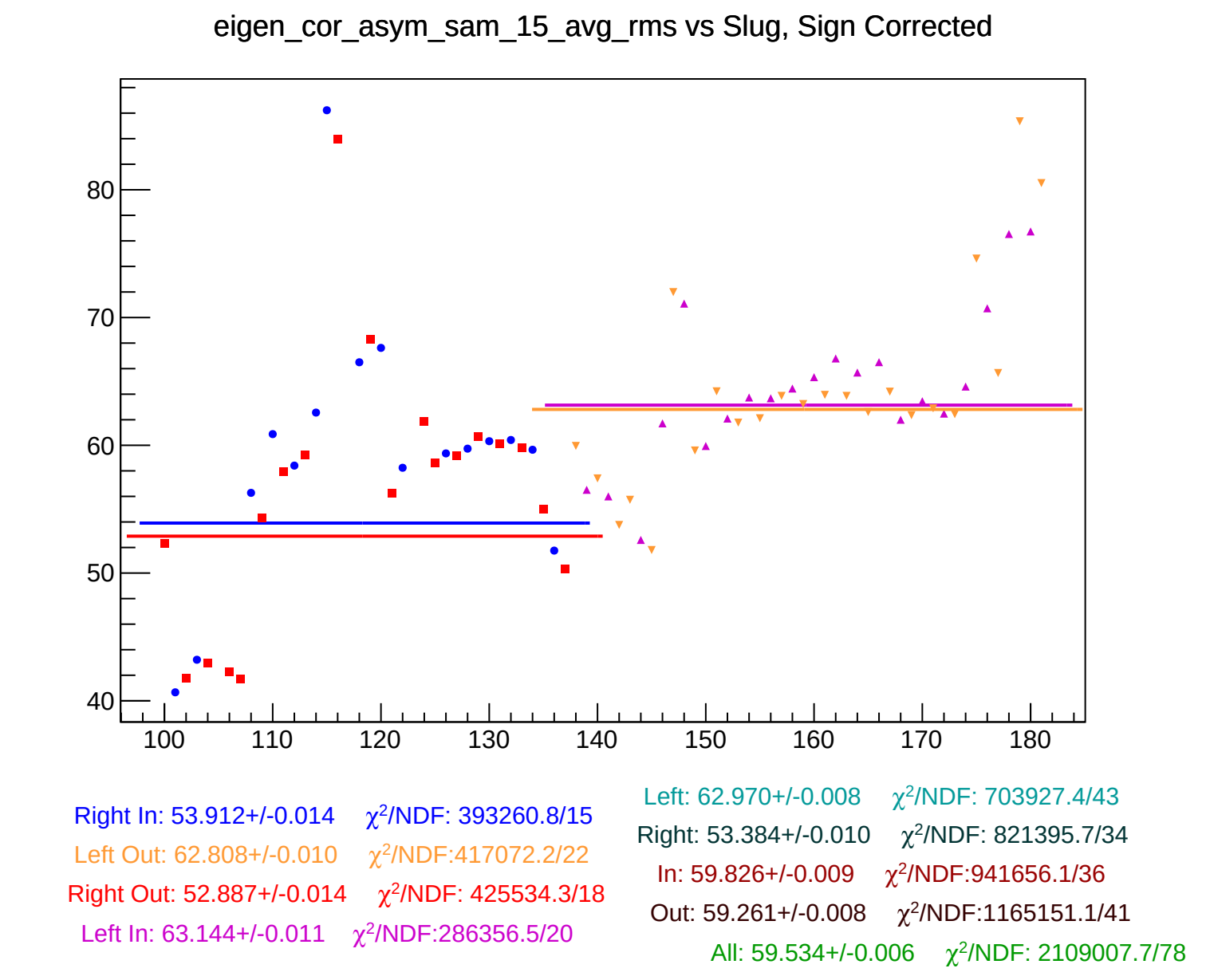
Left: 22.117+/-10.624 $\chi^2$/NDF: 47.7/43

Right: 57.159+/-14.214 $\chi^2$/NDF: 47.2/34

In: 26.464+/-12.238 $\chi^2$/NDF:47.6/36

Out: 42.365+/-11.841 $\chi^2$/NDF:50.3/41

All: 34.677+/-8.510 $\chi^2$/NDF: 98.8/78


eigen_cor_asym_sam_15_avg_rms vs Slug, Sign Corrected
80
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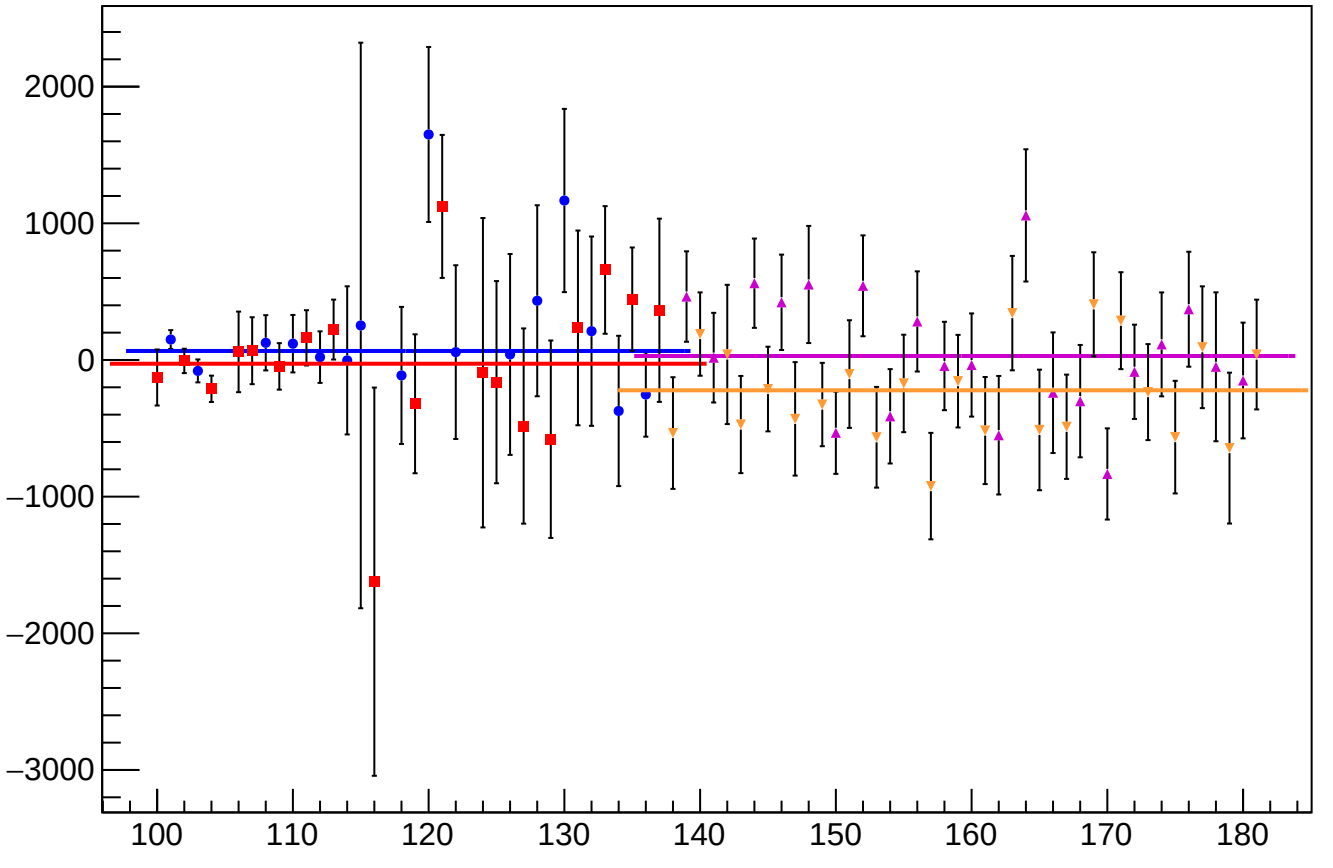
160
170
180
Right In: 53.912+/-0.014 χ²/NDF: 393260.8/15
Left Out: 62.808+/-0.010 χ²/NDF:417072.2/22
Right Out: 52.887+/-0.014 χ²/NDF: 425534.3/18
Left In: 63.144+/-0.011 χ²/NDF:286356.5/20
Left: 62.970+/-0.008 χ²/NDF: 703927.4/43
Right: 53.384+/-0.010 χ²/NDF: 821395.7/34
In: 59.826+/-0.009 χ²/NDF:941656.1/36
Out: 59.261+/-0.008 χ²/NDF:1165151.1/41
All: 59.534+/-0.006 χ²/NDF: 2109007.7/78




Right In: 65.857+/-46.477 $\chi^2$/NDF: 15.7/15

Left Out: -221.916+/-79.047 $\chi^2$/NDF:18.1/22

Right Out: -27.406+/-50.249 $\chi^2$/NDF: 18.0/18

Left In: 29.167+/-81.158 $\chi^2$/NDF:29.8/20

Left: -99.683+/-56.626 $\chi^2$/NDF: 52.8/43

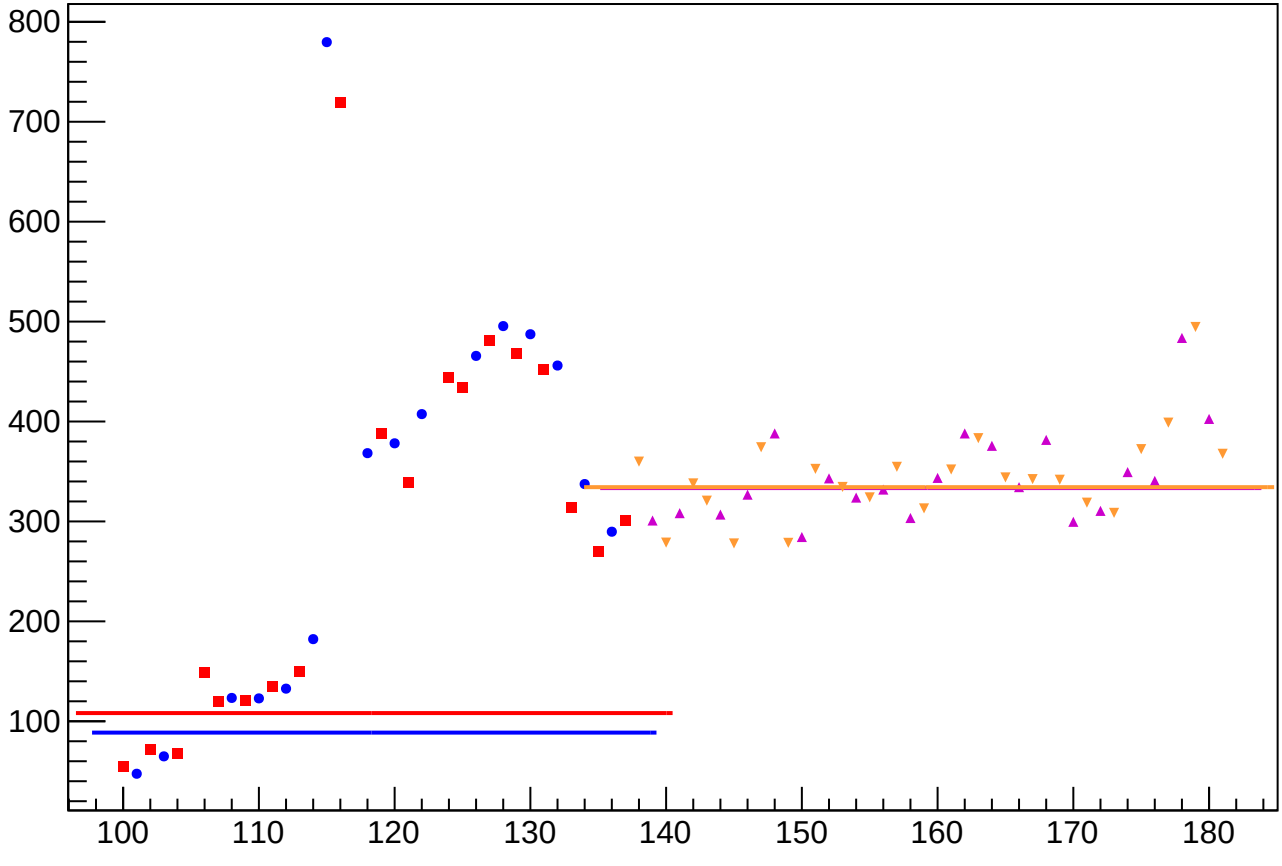
Right: 22.856+/-34.120 $\chi^2$/NDF: 35.6/34

In: 56.796+/-40.332 $\chi^2$/NDF:45.7/36

Out: -83.385+/-42.406 $\chi^2$/NDF:40.4/41

All: -9.783+/-29.225 $\chi^2$/NDF: 91.8/78

asym_sam_15_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 88.655+/-0.033 $\chi^2$/NDF: 6648135.5/15

Left Out: 334.299+/-0.056 $\chi^2$/NDF:537981.2/22

Right Out: 108.207+/-0.036 $\chi^2$/NDF: 5354864.8/18

Left In: 333.379+/-0.057 $\chi^2$/NDF:465500.0/20

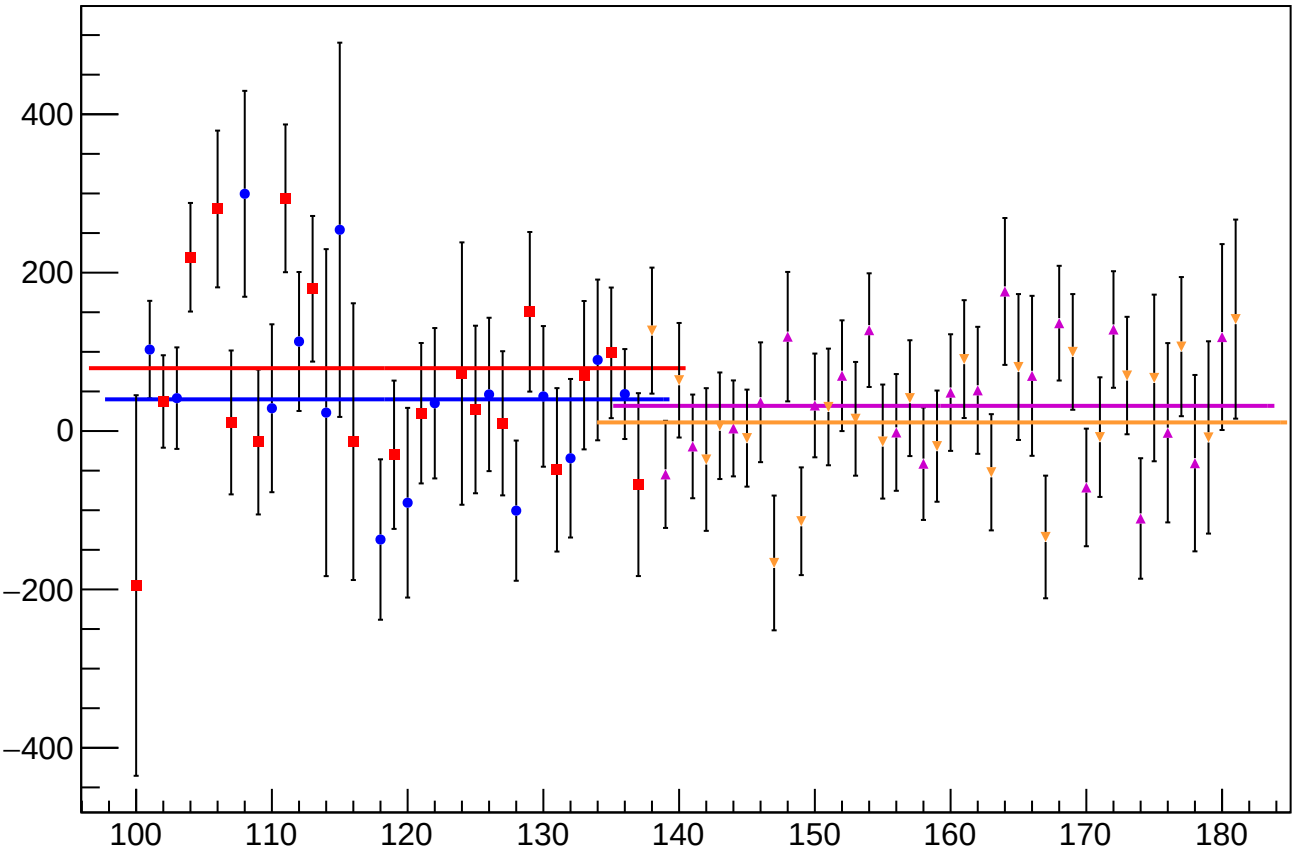
Left: 333.851+/-0.040 $\chi^2$/NDF: 1003612.9/43

Right: 97.670+/-0.024 $\chi^2$/NDF: 12166180.8/34

In: 149.093+/-0.029 $\chi^2$/NDF:20807744.1/36

Out: 173.275+/-0.030 $\chi^2$/NDF:17545887.2/41

All: 160.579+/-0.021 $\chi^2$/NDF: 38695100.8/78




Right In: 40.030+/-22.515 $\chi^2$/NDF: 14.1/15

Left Out: 10.884+/-16.177 $\chi^2$/NDF:22.0/22

Right Out: 79.378+/-21.577 $\chi^2$/NDF: 24.8/18

Left In: 31.809+/-16.719 $\chi^2$/NDF:19.9/20

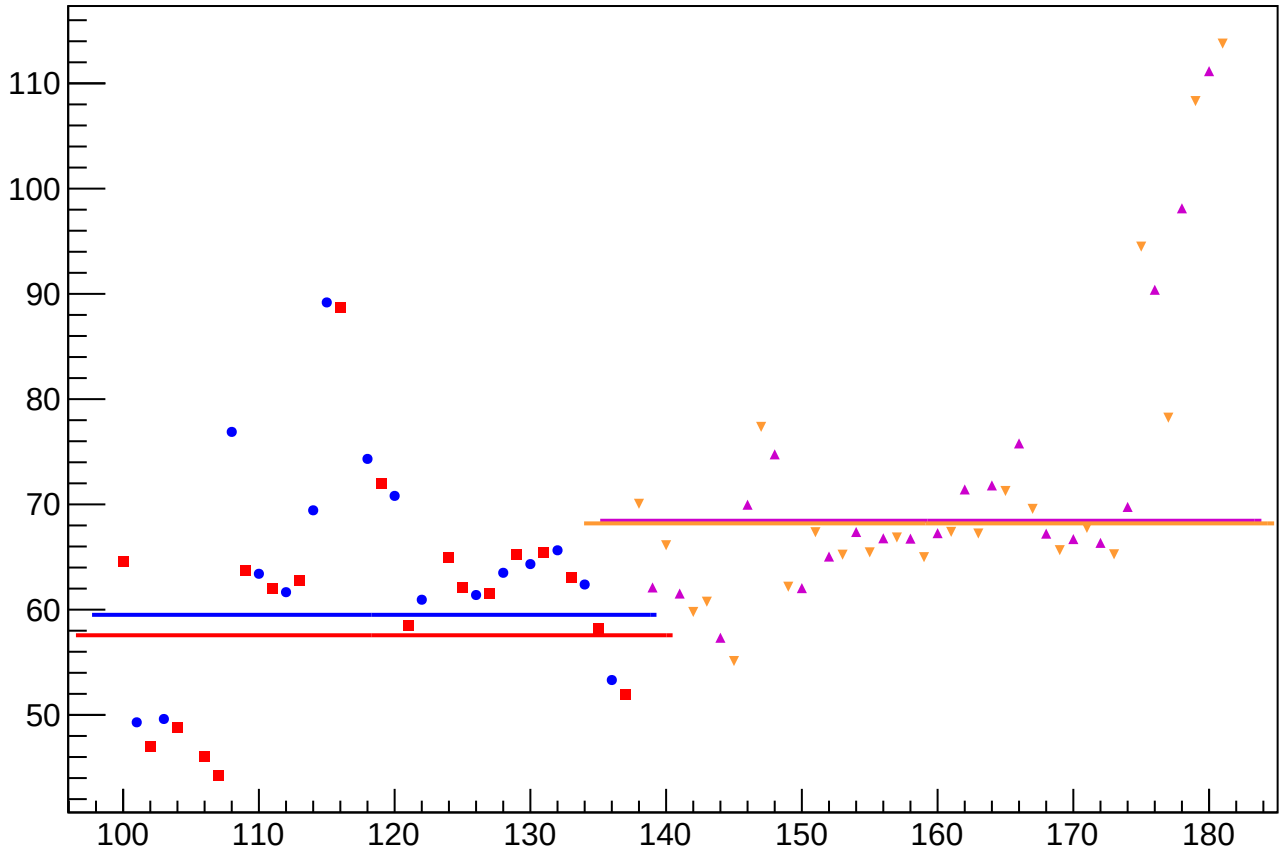
Left: 21.002+/-11.626 $\chi^2$/NDF: 42.7/43

Right: 60.541+/-15.578 $\chi^2$/NDF: 40.5/34

In: 34.731+/-13.423 $\chi^2$/NDF:34.1/36

Out: 35.531+/-12.943 $\chi^2$/NDF:53.3/41

All: 35.145+/-9.317 $\chi^2$/NDF: 87.4/78




Right In: 59.509+/-0.016 $\chi^2$/NDF: 283192.7/15

Left Out: 68.195+/-0.011 $\chi^2$/NDF:827646.0/22

Right Out: 57.567+/-0.015 $\chi^2$/NDF: 347377.8/18

Left In: 68.446+/-0.012 $\chi^2$/NDF:648781.7/20

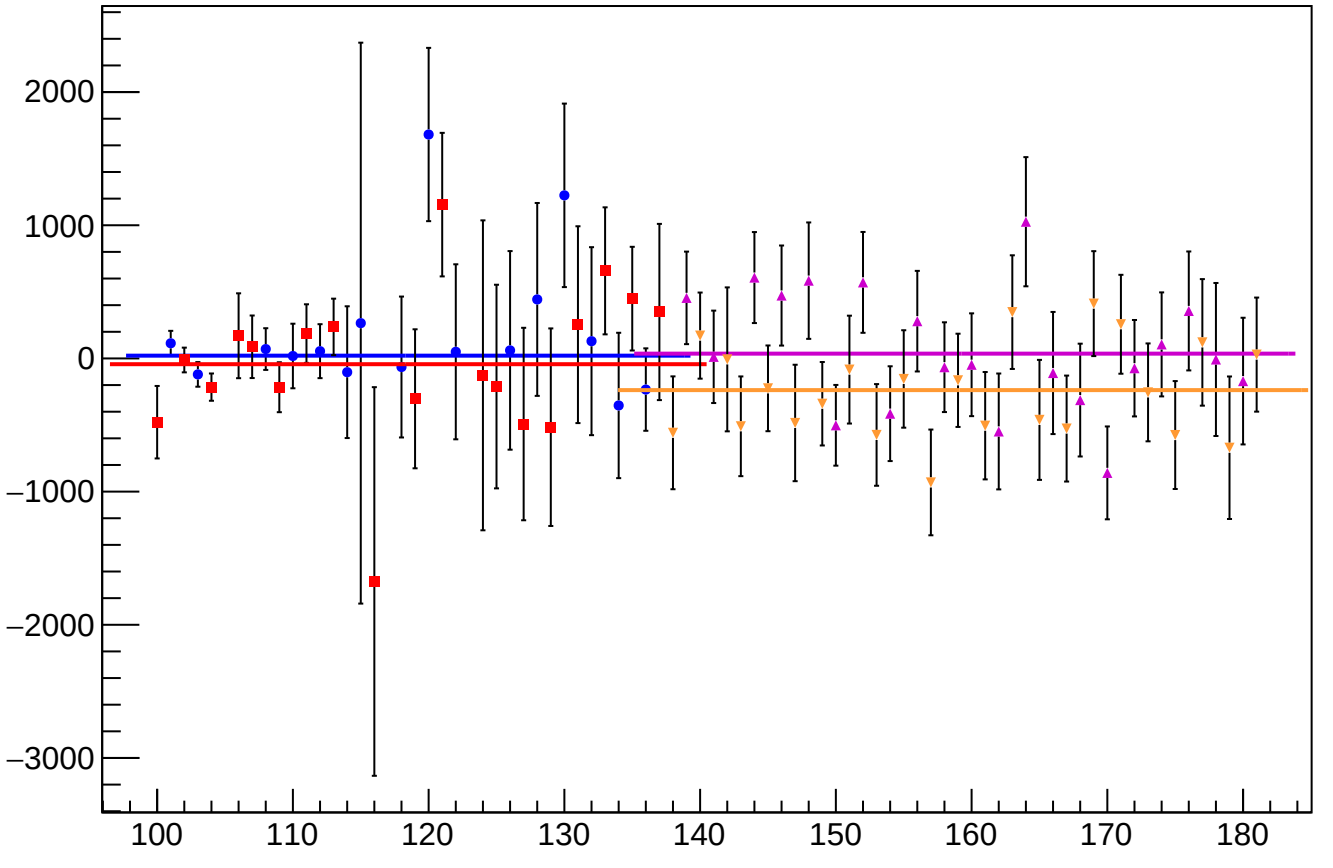
Left: 68.316+/-0.008 $\chi^2$/NDF: 1476661.5/43

Right: 58.497+/-0.011 $\chi^2$/NDF: 638326.1/34

In: 65.270+/-0.009 $\chi^2$/NDF:1135124.9/36

Out: 64.371+/-0.009 $\chi^2$/NDF:1485657.9/41

All: 64.804+/-0.007 $\chi^2$/NDF: 2625432.5/78




Right In: 20.840+/-53.585 $\chi^2$/NDF: 14.6/15

Left Out: -237.891+/-81.878 $\chi^2$/NDF:17.3/22

Right Out: -43.262+/-53.210 $\chi^2$/NDF: 21.5/18

Left In: 35.972+/-84.362 $\chi^2$/NDF:28.7/20

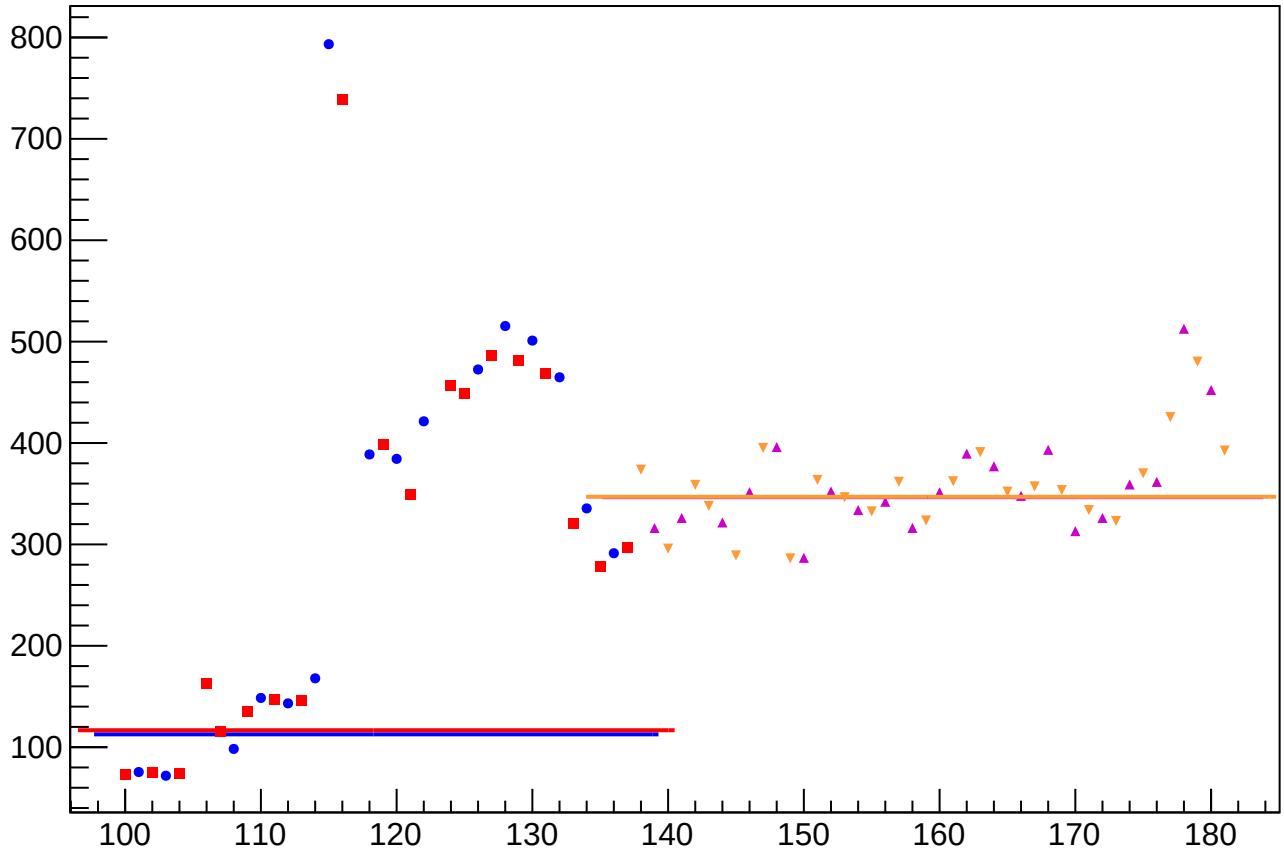
Left: -105.051+/-58.755 $\chi^2$/NDF: 51.4/43

Right: -11.436+/-37.757 $\chi^2$/NDF: 36.9/34

In: 25.190+/-45.232 $\chi^2$/NDF:43.3/36

Out: -101.053+/-44.616 $\chi^2$/NDF:42.8/41

All: -38.796+/-31.764 $\chi^2$/NDF: 90.0/78




Right In: 112.668+/-0.038 $\chi^2$/NDF: 5599655.1/15

Left Out: 346.987+/-0.058 $\chi^2$/NDF:487663.4/22

Right Out: 116.733+/-0.038 $\chi^2$/NDF: 5141387.7/18

Left In: 346.608+/-0.060 $\chi^2$/NDF:503397.9/20

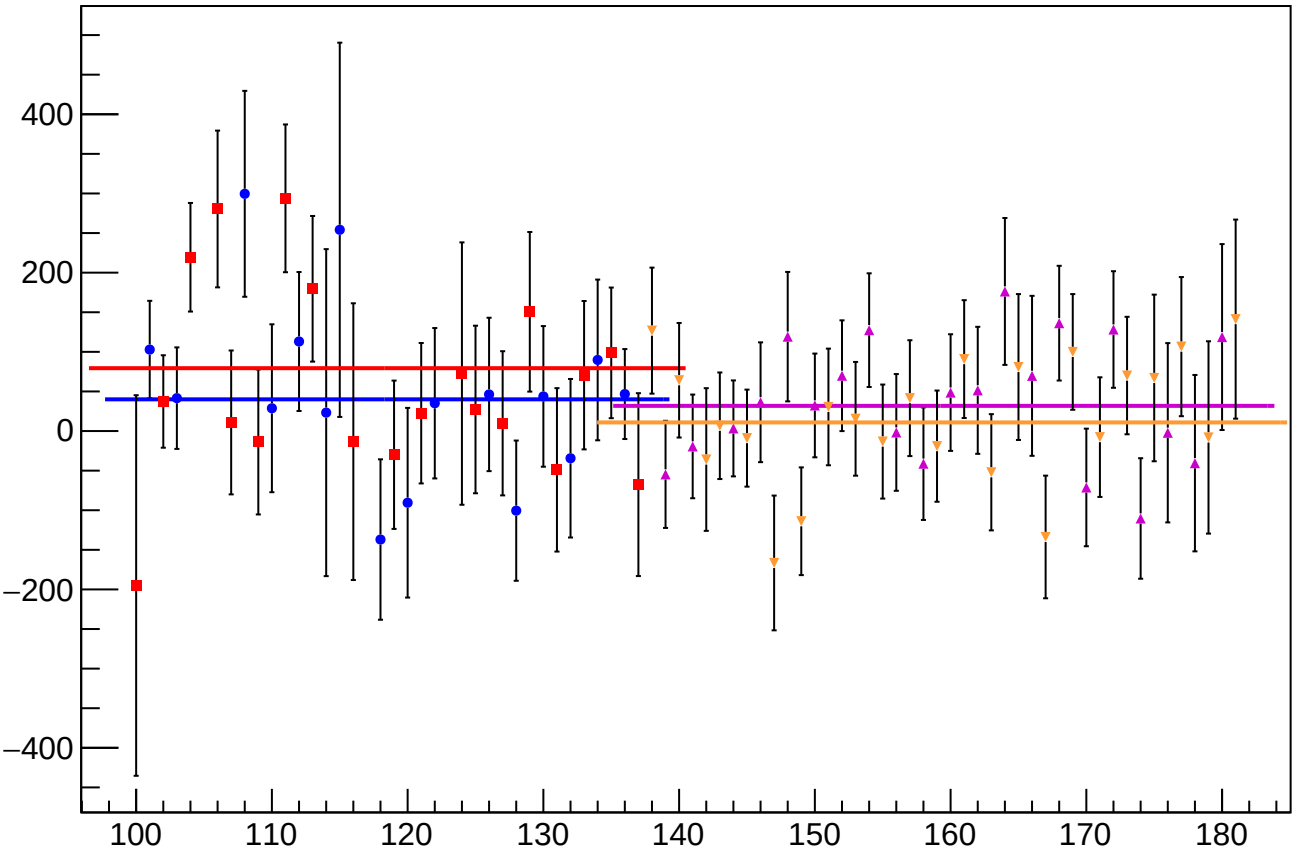
Left: 346.803+/-0.042 $\chi^2$/NDF: 991082.0/43

Right: 114.715+/-0.027 $\chi^2$/NDF: 10746836.7/34

In: 179.919+/-0.032 $\chi^2$/NDF:17061414.4/36

Out: 185.102+/-0.032 $\chi^2$/NDF:16749209.6/41

All: 182.546+/-0.022 $\chi^2$/NDF: 33823934.7/78




Right In: 40.030+/-22.515 $\chi^2$/NDF: 14.1/15

Left Out: 10.885+/-16.177 $\chi^2$/NDF:22.0/22

Right Out: 79.378+/-21.577 $\chi^2$/NDF: 24.8/18

Left In: 31.809+/-16.719 $\chi^2$/NDF:19.9/20

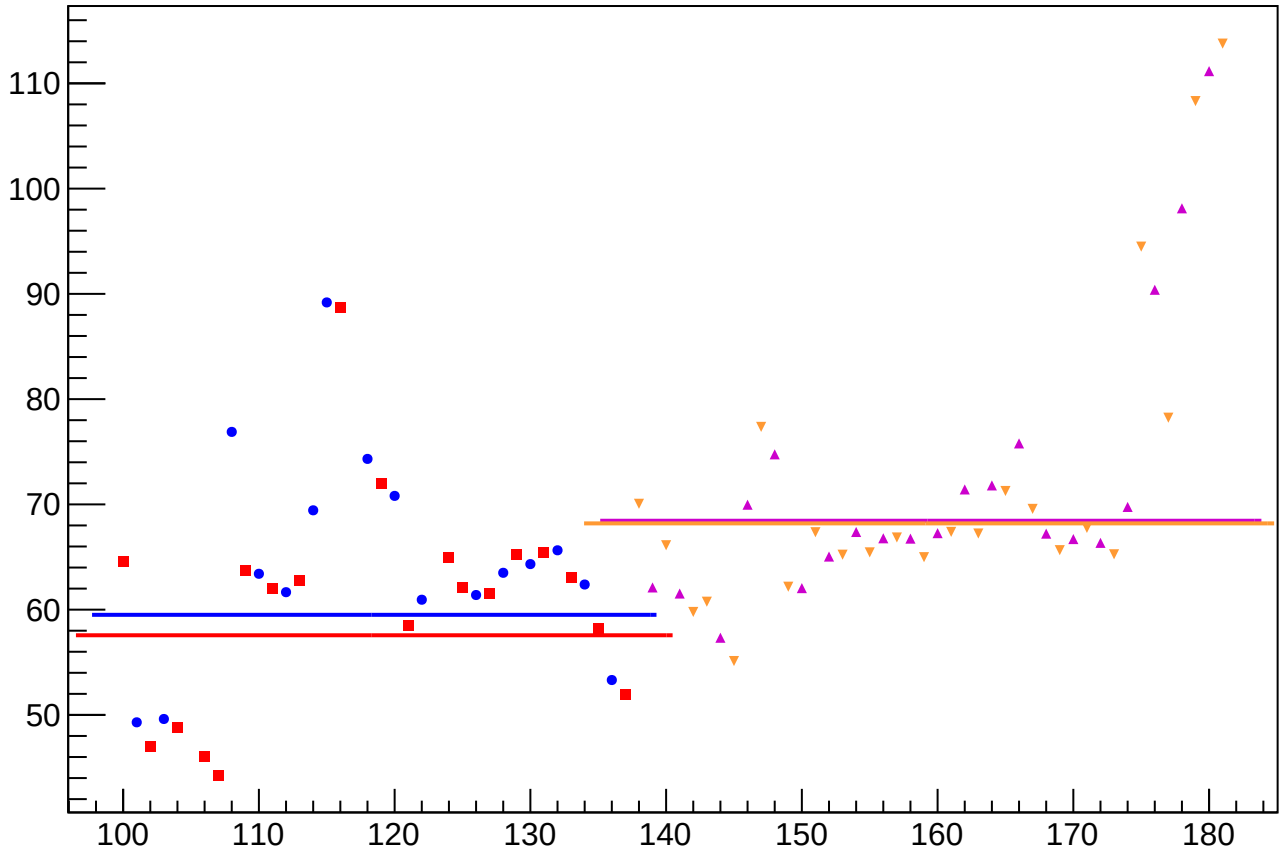
Left: 21.002+/-11.626 $\chi^2$/NDF: 42.7/43

Right: 60.540+/-15.578 $\chi^2$/NDF: 40.5/34

In: 34.731+/-13.423 $\chi^2$/NDF:34.1/36

Out: 35.531+/-12.943 $\chi^2$/NDF:53.3/41

All: 35.145+/-9.317 $\chi^2$/NDF: 87.4/78




Right In: 59.509+/-0.016 $\chi^2$/NDF: 283190.4/15

Left Out: 68.195+/-0.011 $\chi^2$/NDF:827629.5/22

Right Out: 57.567+/-0.015 $\chi^2$/NDF: 347374.2/18

Left In: 68.447+/-0.012 $\chi^2$/NDF:648767.4/20

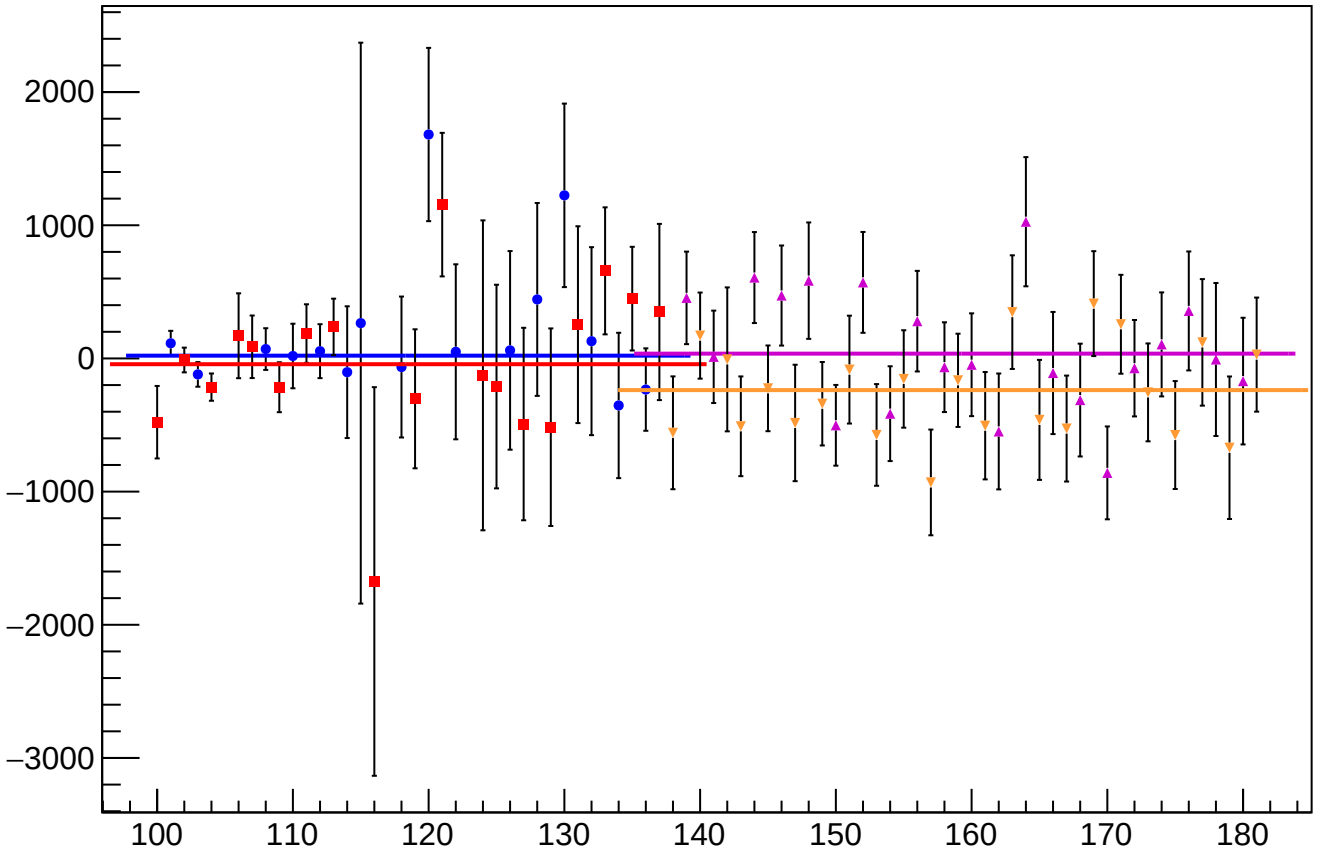
Left: 68.317+/-0.008 $\chi^2$/NDF: 1476630.8/43

Right: 58.496+/-0.011 $\chi^2$/NDF: 638320.1/34

In: 65.270+/-0.009 $\chi^2$/NDF:1135119.1/36

Out: 64.371+/-0.009 $\chi^2$/NDF:1485647.3/41

All: 64.804+/-0.007 $\chi^2$/NDF: 2625416.4/78




Right In: 20.840+/-53.585 $\chi^2$/NDF: 14.6/15

Left Out: -237.890+/-81.878 $\chi^2$/NDF:17.3/22

Right Out: -43.262+/-53.210 $\chi^2$/NDF: 21.5/18

Left In: 35.972+/-84.362 $\chi^2$/NDF:28.7/20

Left: -105.051+/-58.755 $\chi^2$/NDF: 51.4/43

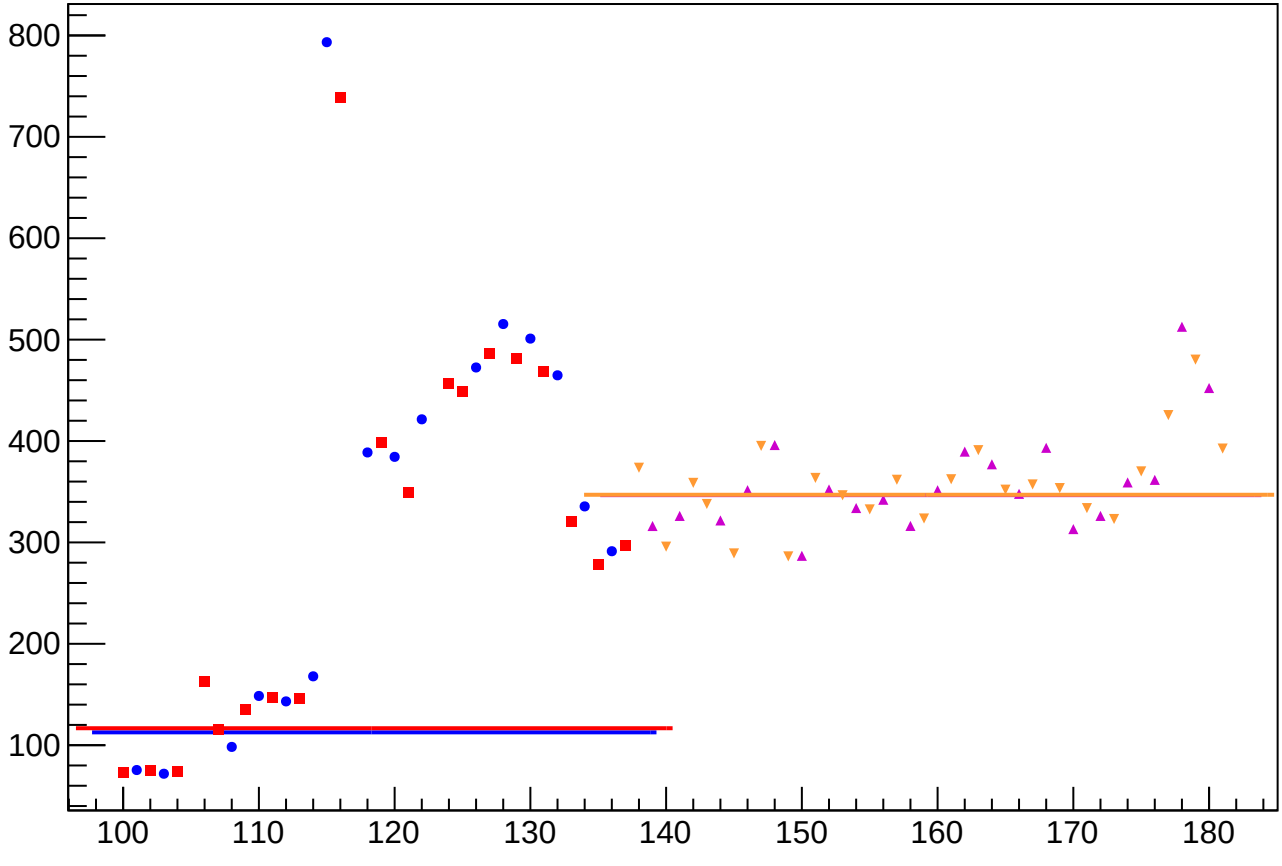
Right: -11.436+/-37.757 $\chi^2$/NDF: 36.9/34

In: 25.190+/-45.232 $\chi^2$/NDF:43.3/36

Out: -101.053+/-44.616 $\chi^2$/NDF:42.8/41

All: -38.796+/-31.764 $\chi^2$/NDF: 90.0/78

asym_sam_15_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 112.668+/-0.038 $\chi^2$/NDF: 5599653.6/15

Left Out: 346.988+/-0.058 $\chi^2$/NDF:487655.8/22

Right Out: 116.732+/-0.038 $\chi^2$/NDF: 5141390.3/18

Left In: 346.609+/-0.060 $\chi^2$/NDF:503391.7/20

Left: 346.804+/-0.042 $\chi^2$/NDF: 991068.2/43

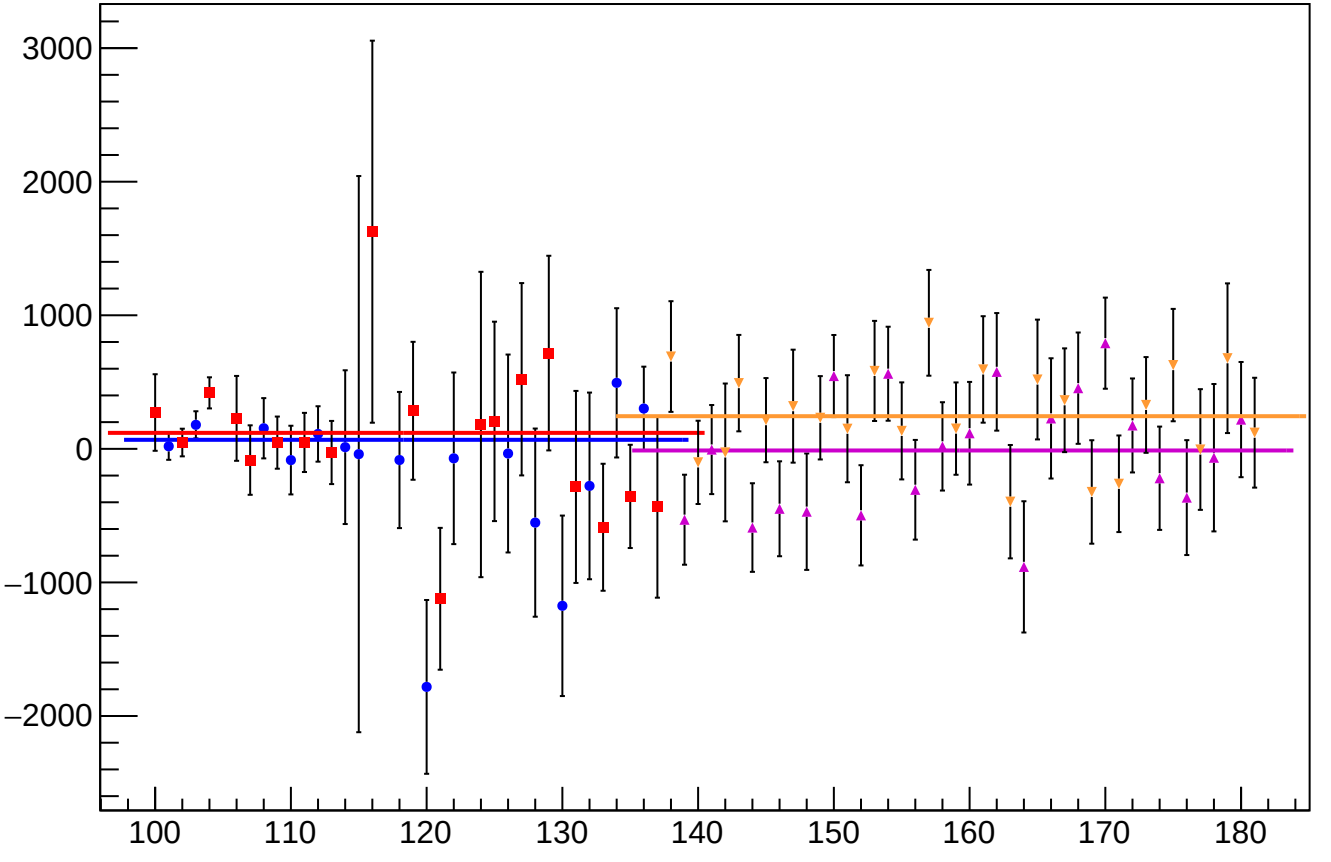
Right: 114.714+/-0.027 $\chi^2$/NDF: 10746837.6/34

In: 179.919+/-0.032 $\chi^2$/NDF:17061472.3/36

Out: 185.102+/-0.032 $\chi^2$/NDF:16749286.4/41

All: 182.546+/-0.022 $\chi^2$/NDF: 33824068.6/78

# asym_sam_15_avg_mean vs Slug, Sign Corrected




Right In: 67.621+/-59.169 $\chi^2$/NDF: 15.8/15

Left Out: 244.503+/-80.487 $\chi^2$/NDF:16.8/22

Right Out: 119.635+/-57.941 $\chi^2$/NDF: 21.1/18

Left In: -12.132+/-82.654 $\chi^2$/NDF:29.9/20

Left: 119.595+/-57.664 $\chi^2$/NDF: 51.7/43

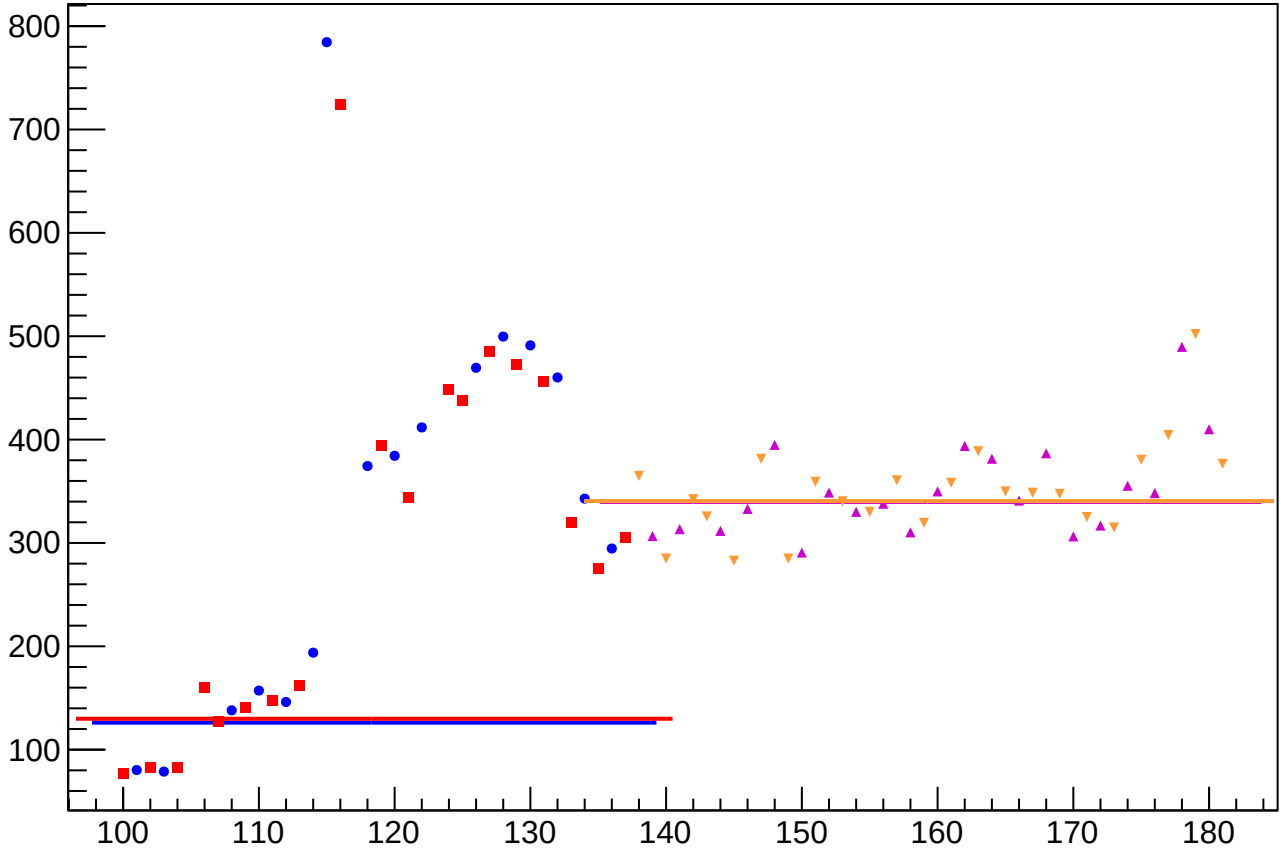
Right: 94.173+/-41.398 $\chi^2$/NDF: 37.3/34

In: 40.599+/-48.112 $\chi^2$/NDF:46.3/36

Out: 162.257+/-47.024 $\chi^2$/NDF:39.5/41

All: 102.819+/-33.629 $\chi^2$/NDF: 89.2/78

# asym_sam_15_avg_rms vs Slug, Sign Corrected




Right In: 126.154+/-0.042 $\chi^2$/NDF: 5220128.2/15

Left Out: 340.523+/-0.057 $\chi^2$/NDF:527540.2/22

Right Out: 129.914+/-0.041 $\chi^2$/NDF: 4647677.8/18

Left In: 339.654+/-0.058 $\chi^2$/NDF:452504.0/20

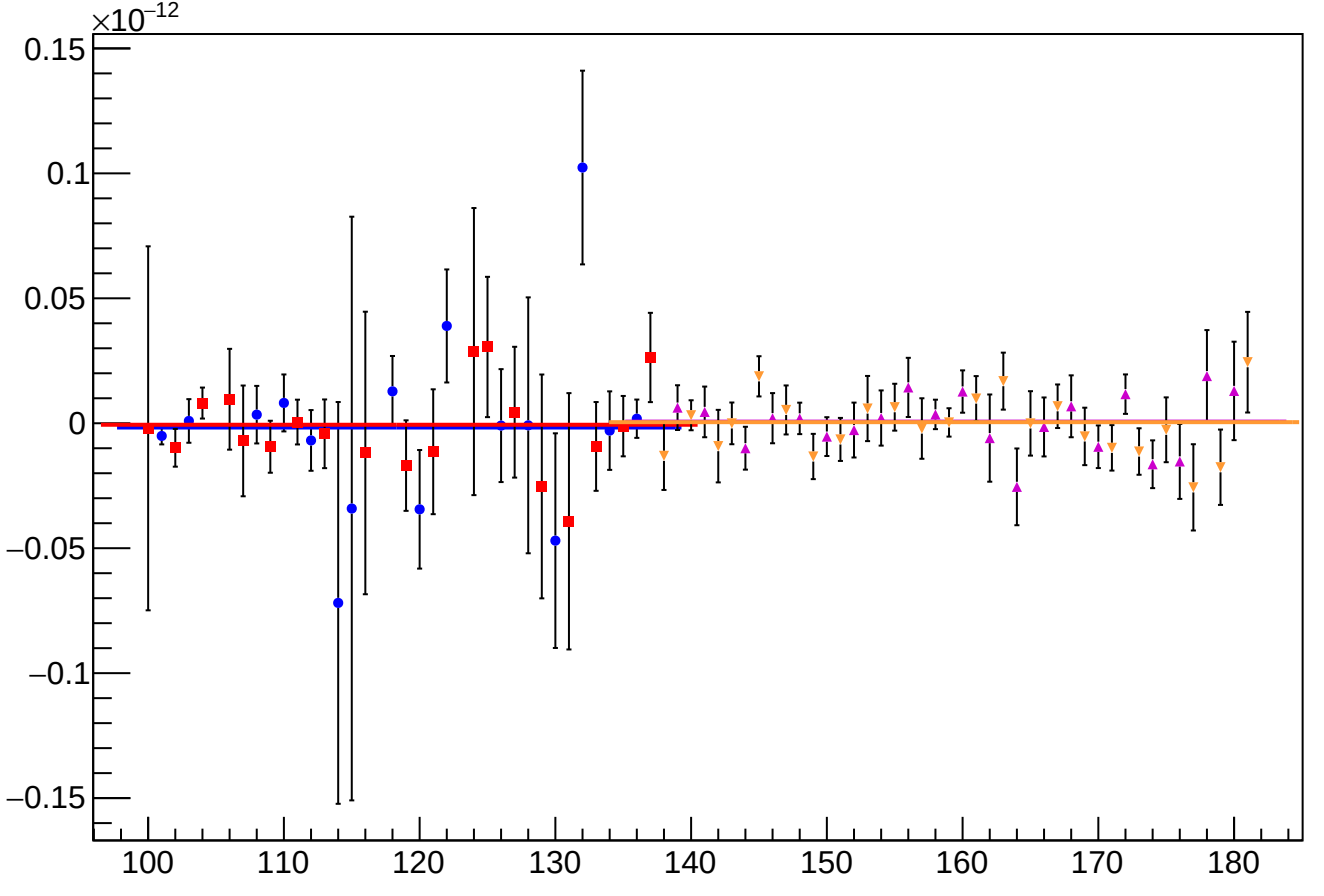
Left: 340.100+/-0.041 $\chi^2$/NDF: 980157.8/43

Right: 128.074+/-0.029 $\chi^2$/NDF: 9871930.1/34

In: 198.493+/-0.034 $\chi^2$/NDF:14495530.7/36

Out: 201.804+/-0.033 $\chi^2$/NDF:14194996.3/41

All: 200.186+/-0.024 $\chi^2$/NDF: 28695372.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 10.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.8/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 41.4/43

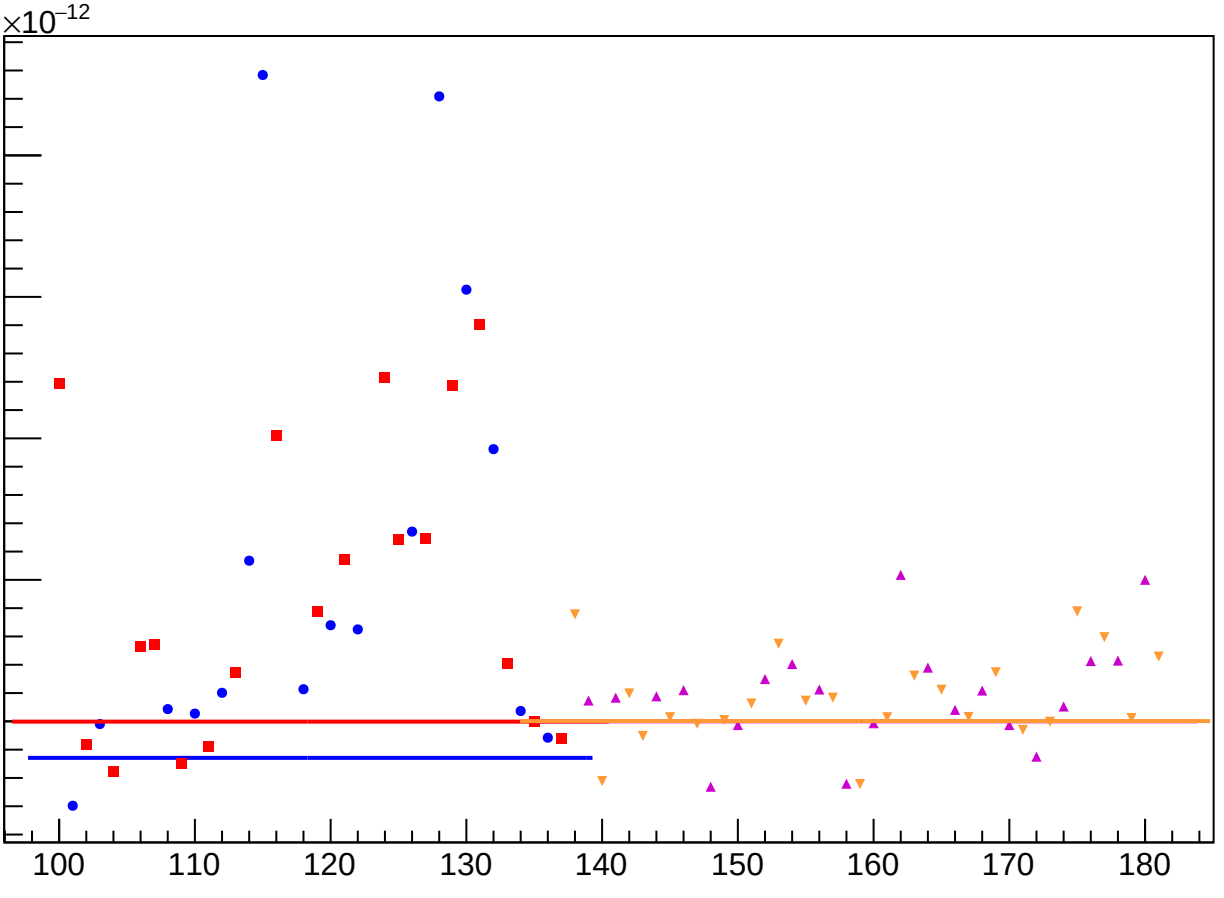
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:37.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:33.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 70.4/78

asym_sam_15_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2172466.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1213217.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1295374.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1221795.1/20

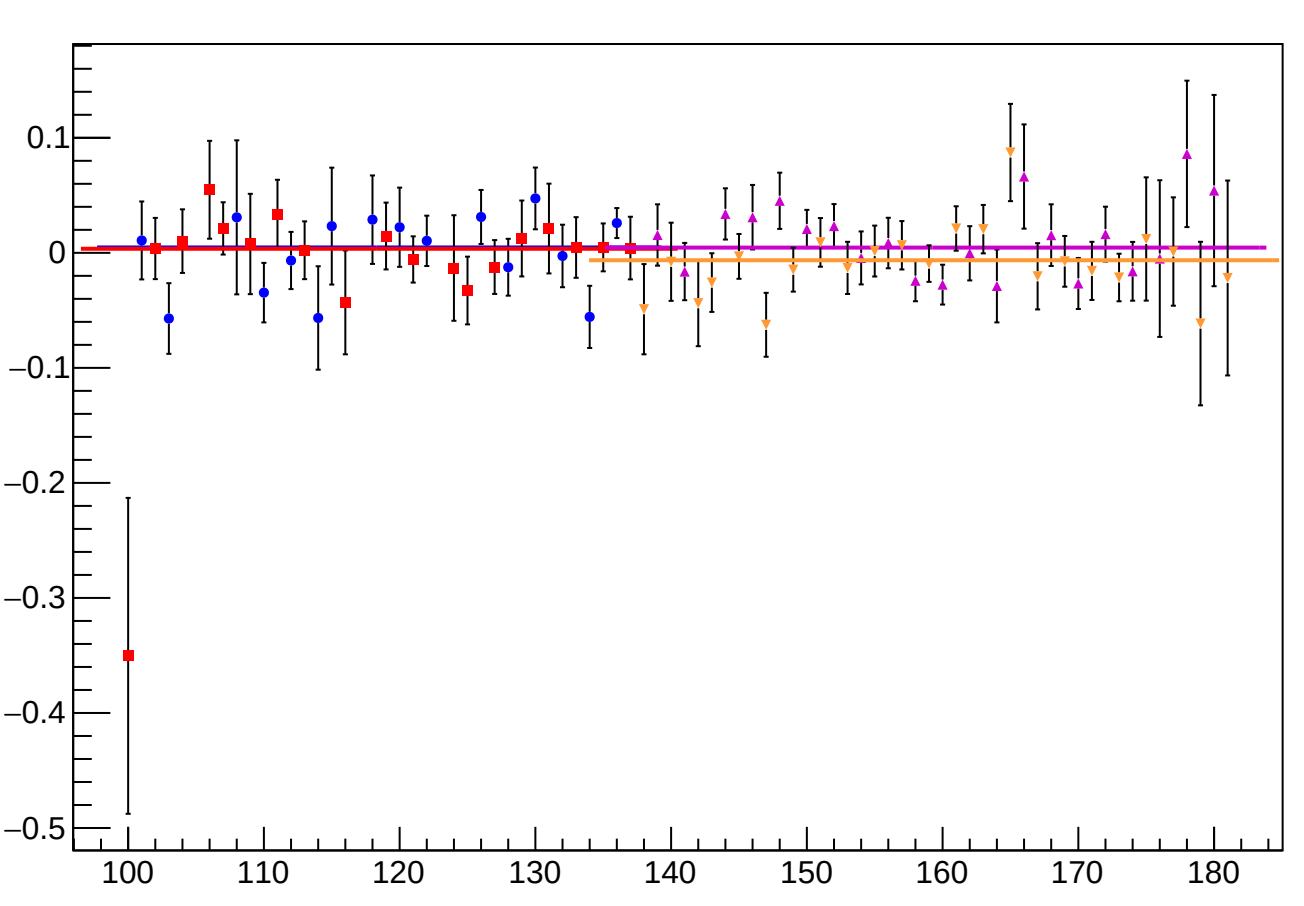
Left: 0.000+/-0.000 $\chi^2$/NDF: 2435025.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3664320.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:3702494.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:2508641.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 6312759.3/78




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.006+/-0.005 $\chi^2$/NDF:18.5/22

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.005+/-0.005 $\chi^2$/NDF:22.5/20

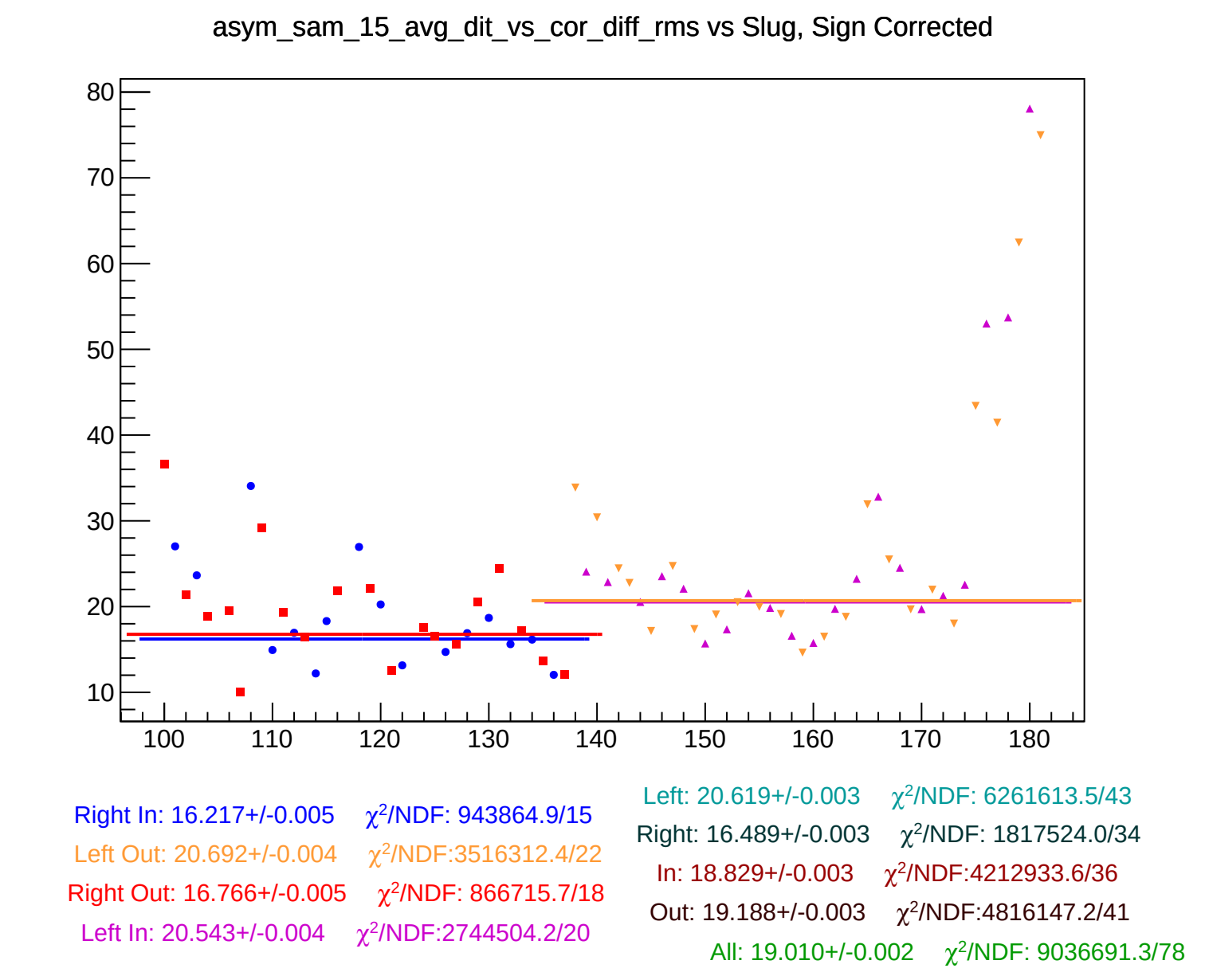
Left: -0.001+/-0.004 $\chi^2$/NDF: 43.1/43

Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.005+/-0.004 $\chi^2$/NDF:43.9/36

Out: -0.003+/-0.004 $\chi^2$/NDF:33.5/41

All: 0.001+/-0.003 $\chi^2$/NDF: 79.0/78


asym_sam_15_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected
80
70
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50
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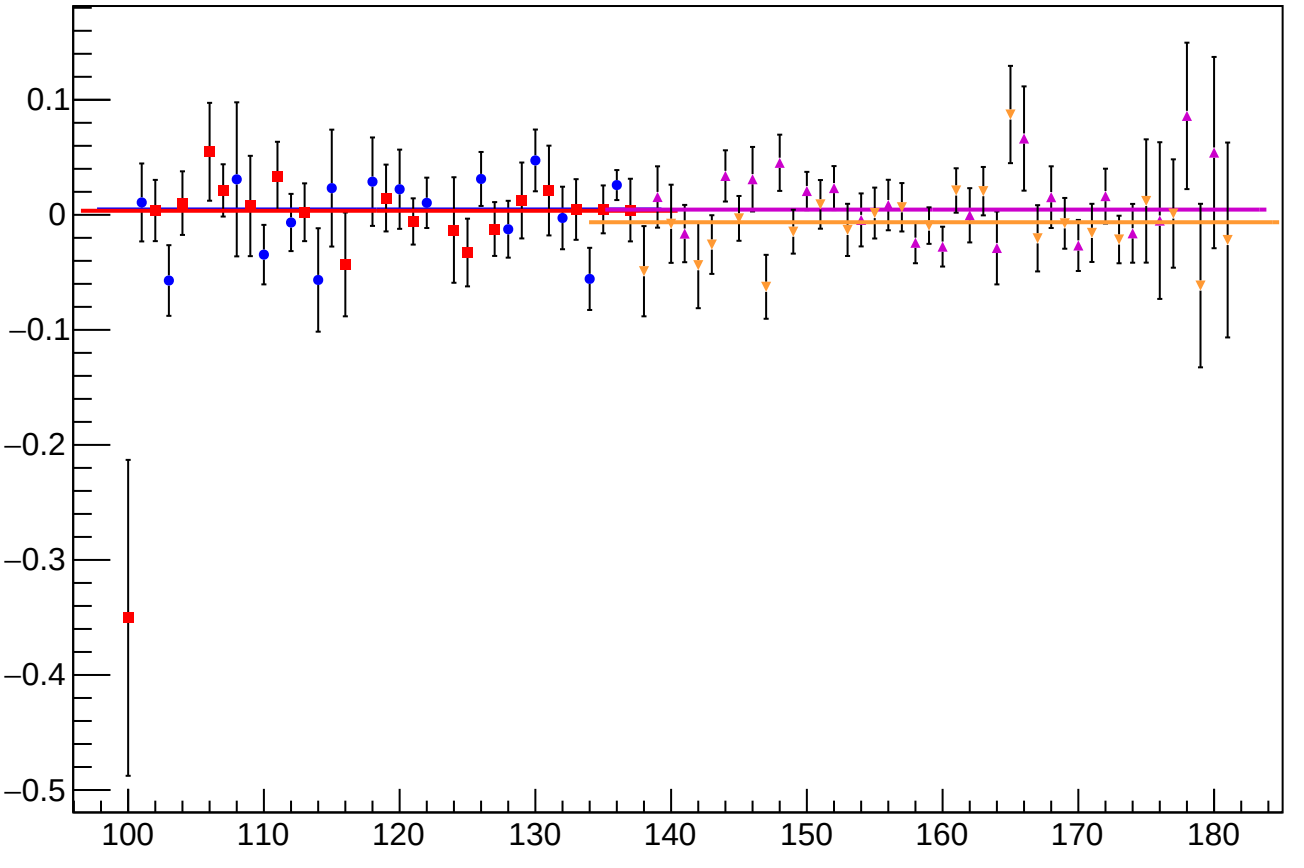
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 16.217+/-0.005 χ²/NDF: 943864.9/15
Left Out: 20.692+/-0.004 χ²/NDF:3516312.4/22
Right Out: 16.766+/-0.005 χ²/NDF: 866715.7/18
Left In: 20.543+/-0.004 χ²/NDF:2744504.2/20
Left: 20.619+/-0.003 χ²/NDF: 6261613.5/43
Right: 16.489+/-0.003 χ²/NDF: 1817524.0/34
In: 18.829+/-0.003 χ²/NDF:4212933.6/36
Out: 19.188+/-0.003 χ²/NDF:4816147.2/41
All: 19.010+/-0.002 χ²/NDF: 9036691.3/78




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.006+/-0.005 $\chi^2$/NDF:18.5/22

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.005+/-0.005 $\chi^2$/NDF:22.5/20

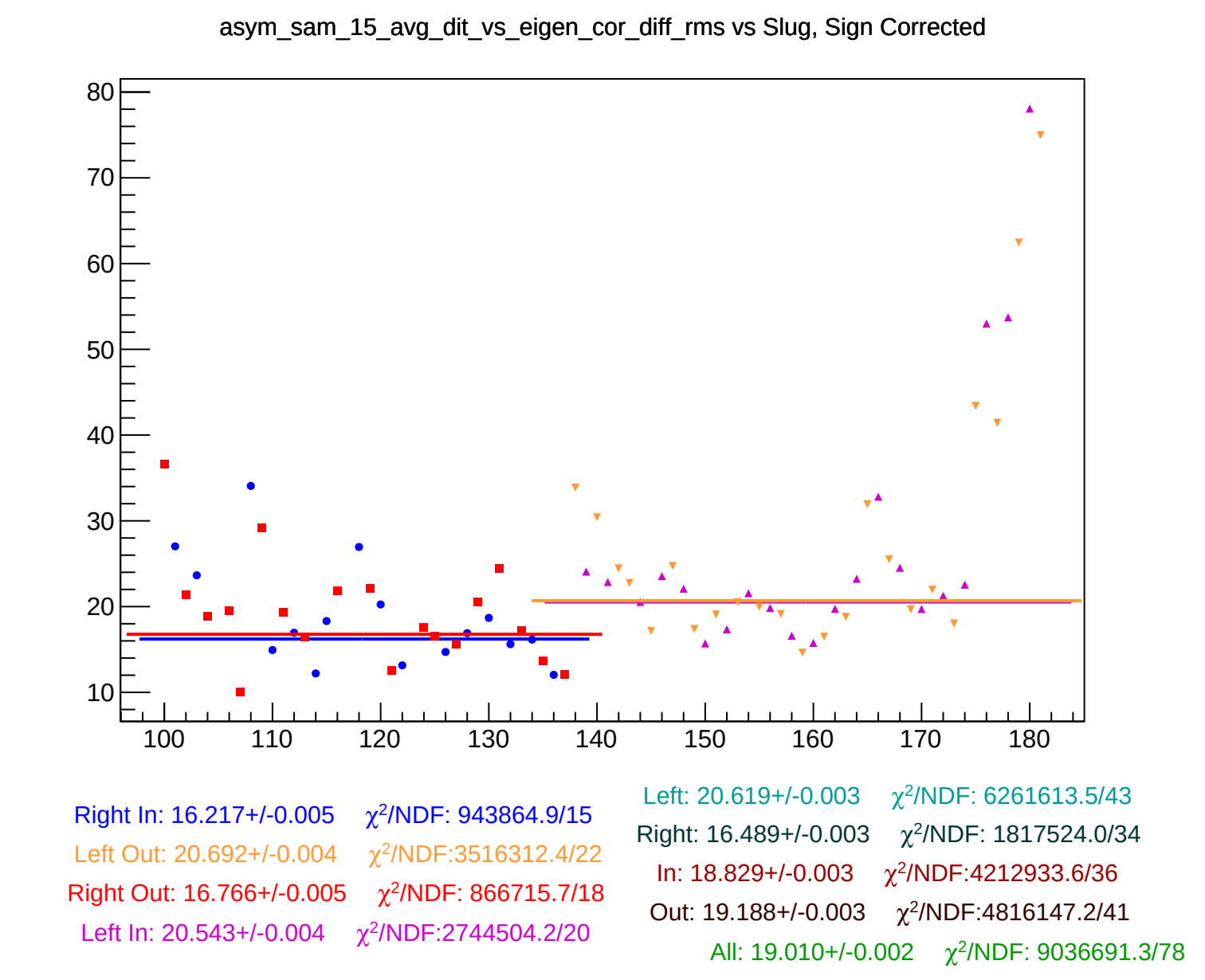
Left: -0.001+/-0.004 $\chi^2$/NDF: 43.1/43

Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.005+/-0.004 $\chi^2$/NDF:43.9/36

Out: -0.003+/-0.004 $\chi^2$/NDF:33.5/41

All: 0.001+/-0.003 $\chi^2$/NDF: 79.0/78


asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
80
70
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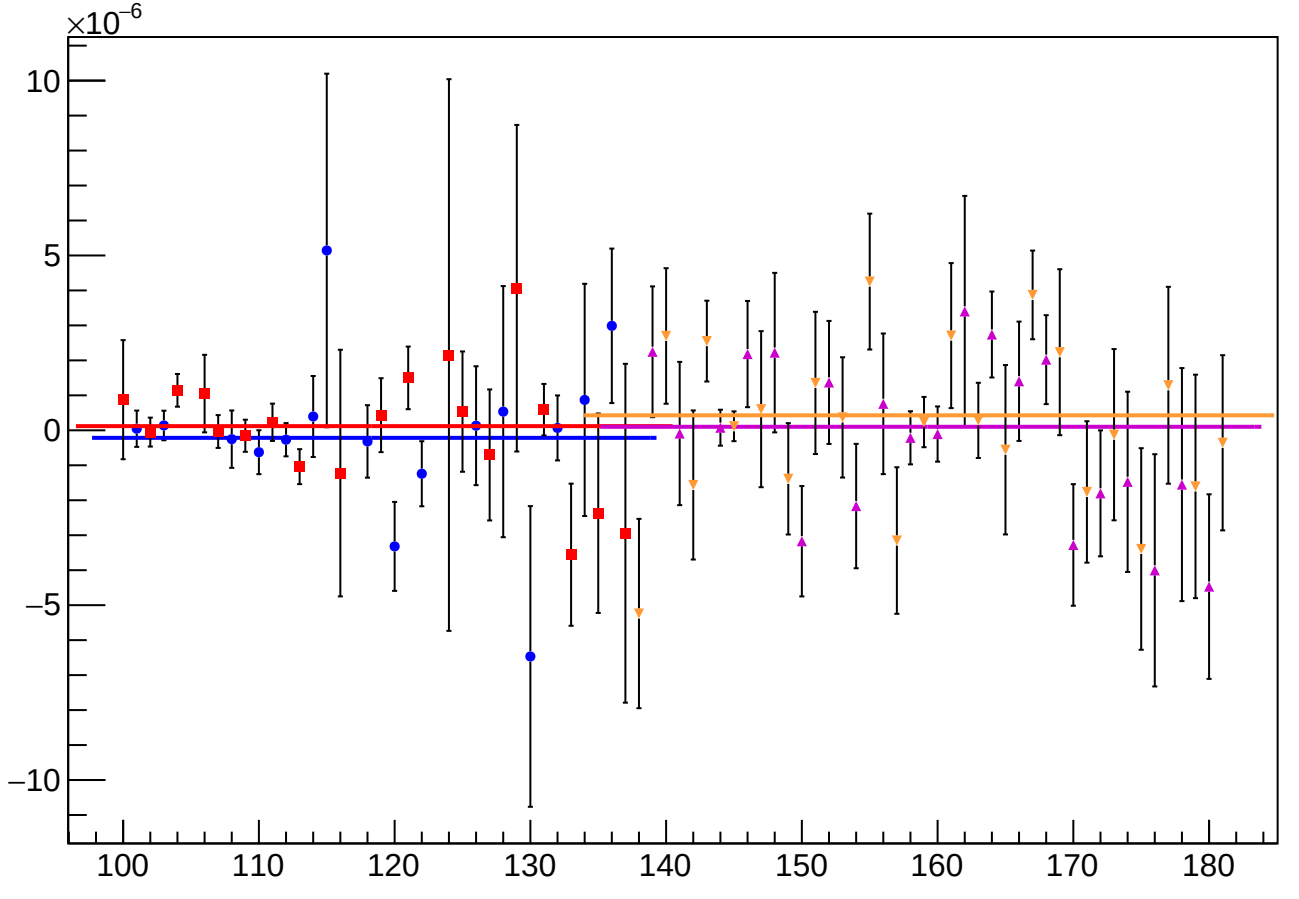
160
170
180
Right In: 16.217+/-0.005 χ²/NDF: 943864.9/15
Left Out: 20.692+/-0.004 χ²/NDF:3516312.4/22
Right Out: 16.766+/-0.005 χ²/NDF: 866715.7/18
Left In: 20.543+/-0.004 χ²/NDF:2744504.2/20
Left: 20.619+/-0.003 χ²/NDF: 6261613.5/43
Right: 16.489+/-0.003 χ²/NDF: 1817524.0/34
In: 18.829+/-0.003 χ²/NDF:4212933.6/36
Out: 19.188+/-0.003 χ²/NDF:4816147.2/41
All: 19.010+/-0.002 χ²/NDF: 9036691.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:31.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:29.4/20

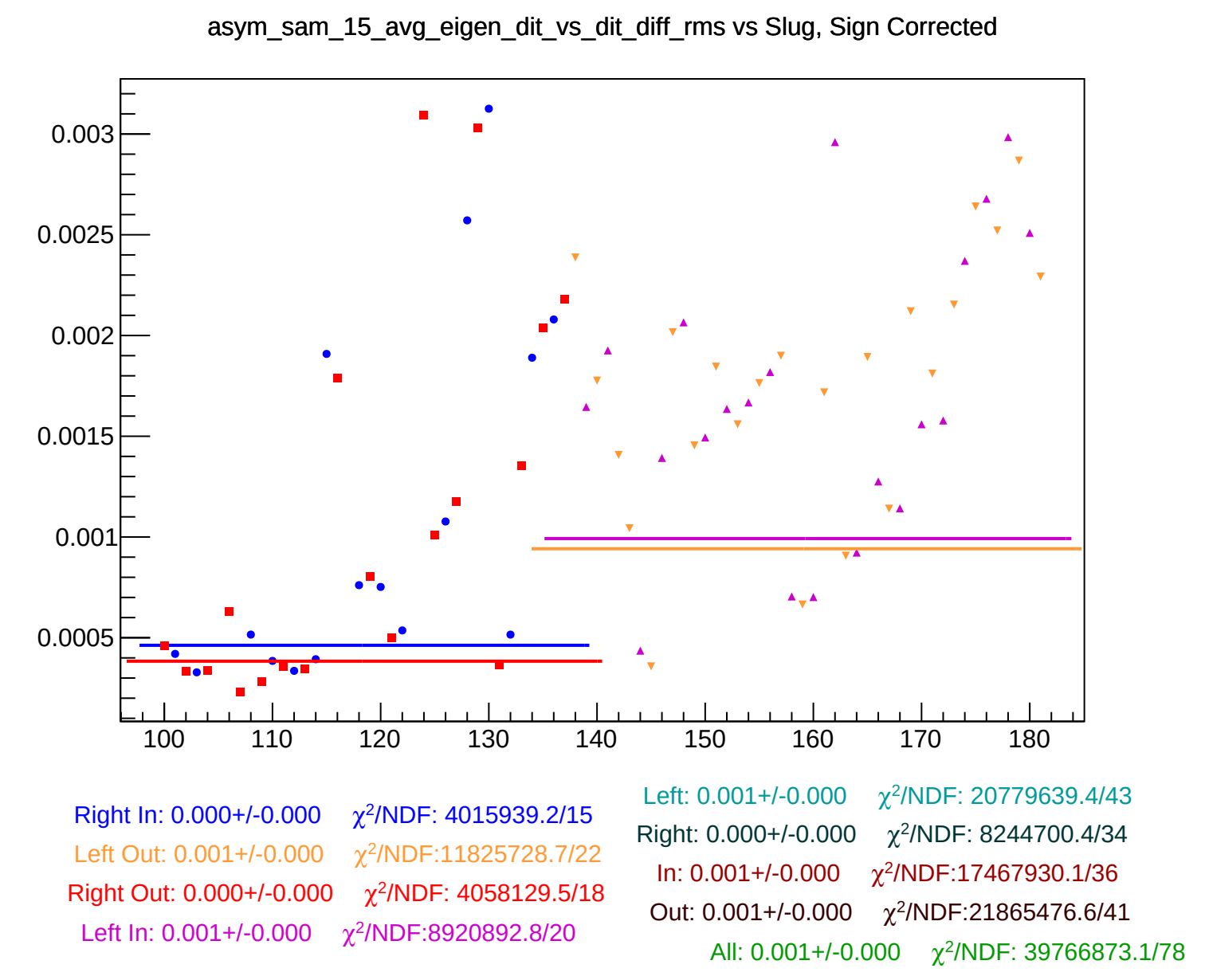
Left: 0.000+/-0.000 $\chi^2$/NDF: 61.9/43

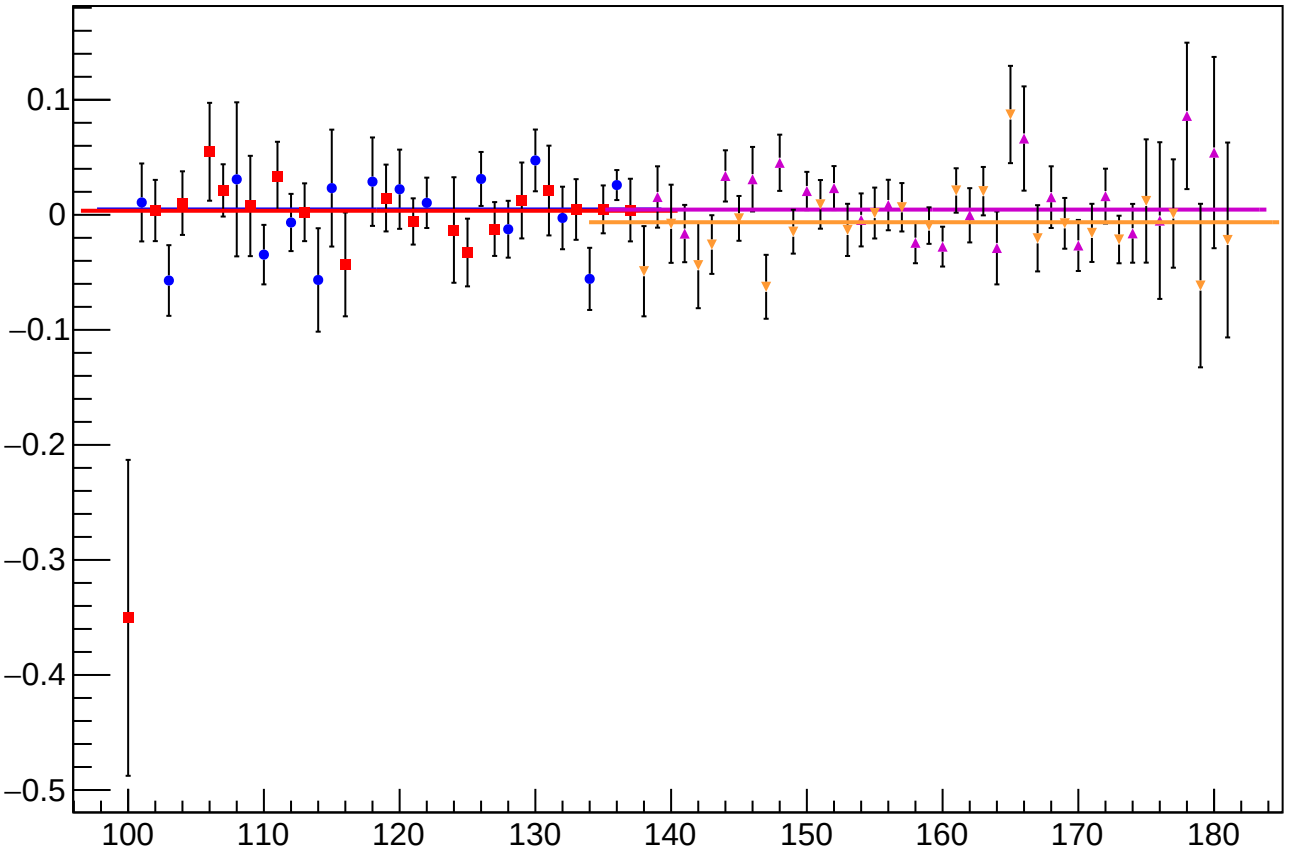
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:44.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:53.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 99.6/78


asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.003
0.0025
0.002
0.0015
0.001
0.0005
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 4015939.2/15
Left Out: 0.001+/-0.000 χ²/NDF:11825728.7/22
Right Out: 0.000+/-0.000 χ²/NDF: 4058129.5/18
Left In: 0.001+/-0.000 χ²/NDF:8920892.8/20
Left: 0.001+/-0.000 χ²/NDF: 20779639.4/43
Right: 0.000+/-0.000 χ²/NDF: 8244700.4/34
In: 0.001+/-0.000 χ²/NDF:17467930.1/36
Out: 0.001+/-0.000 χ²/NDF:21865476.6/41
All: 0.001+/-0.000 χ²/NDF: 39766873.1/78




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.006+/-0.005 $\chi^2$/NDF:18.5/22

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.005+/-0.005 $\chi^2$/NDF:22.5/20

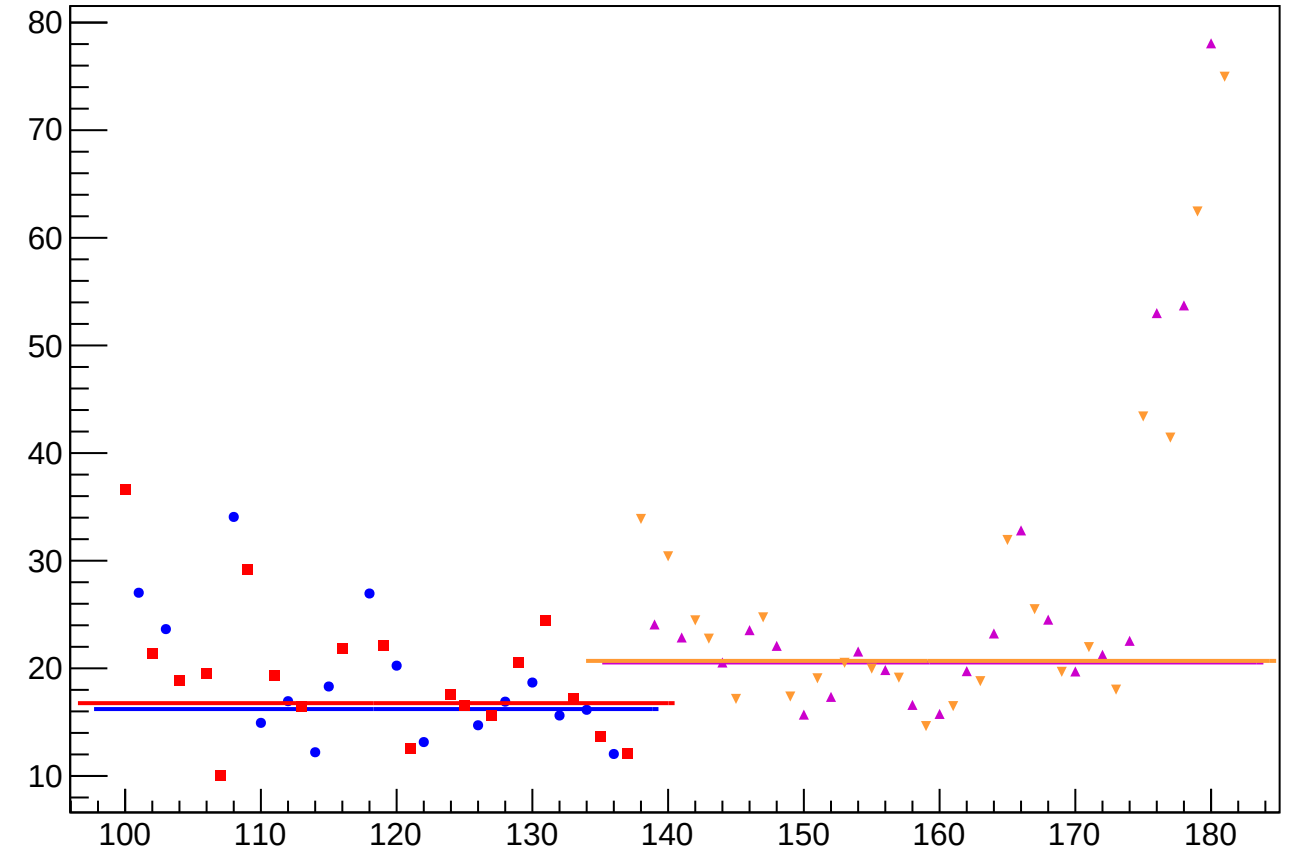
Left: -0.001+/-0.004 $\chi^2$/NDF: 43.1/43

Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.005+/-0.004 $\chi^2$/NDF:43.9/36

Out: -0.003+/-0.004 $\chi^2$/NDF:33.5/41

All: 0.001+/-0.003 $\chi^2$/NDF: 79.0/78




Right In: 16.216+/-0.005 $\chi^2$/NDF: 943830.6/15

Left Out: 20.692+/-0.004 $\chi^2$/NDF:3516294.4/22

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866705.3/18

Left In: 20.543+/-0.004 $\chi^2$/NDF:2744554.0/20

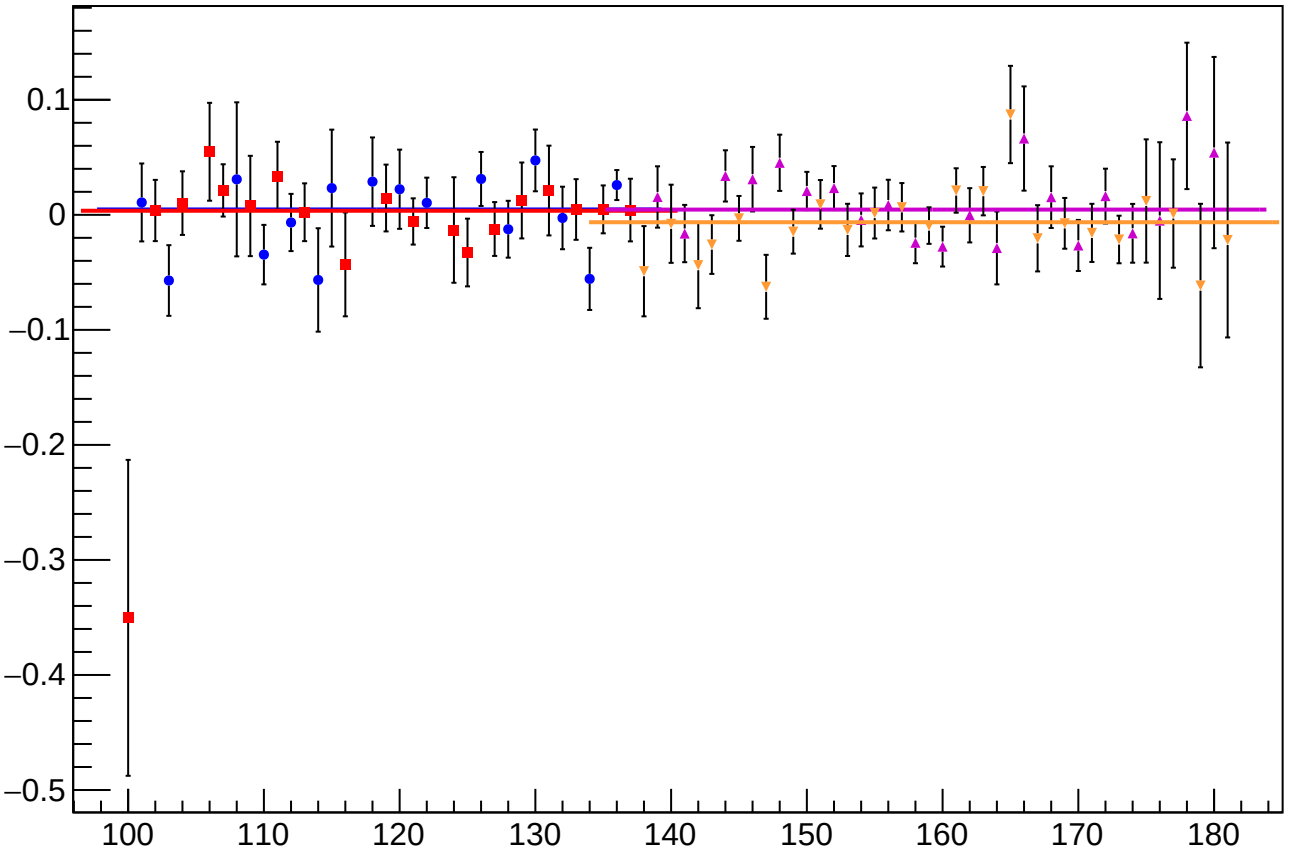
Left: 20.619+/-0.003 $\chi^2$/NDF: 6261645.9/43

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817478.6/34

In: 18.829+/-0.003 $\chi^2$/NDF:4213014.2/36

Out: 19.188+/-0.003 $\chi^2$/NDF:4816200.9/41

All: 19.010+/-0.002 $\chi^2$/NDF: 9036827.0/78




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.006+/-0.005 $\chi^2$/NDF:18.5/22

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.005+/-0.005 $\chi^2$/NDF:22.5/20

Left: -0.001+/-0.004 $\chi^2$/NDF: 43.1/43

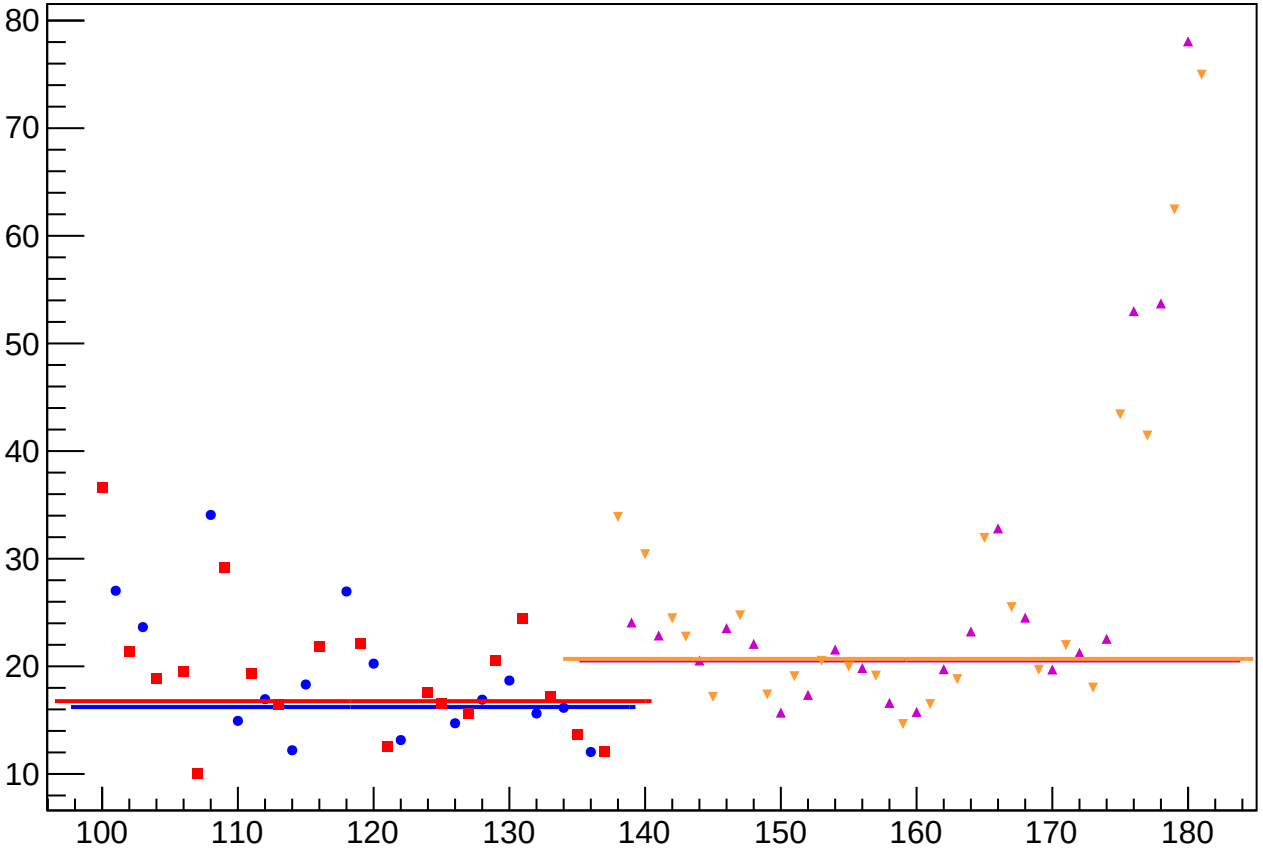
Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.005+/-0.004 $\chi^2$/NDF:43.9/36

Out: -0.003+/-0.004 $\chi^2$/NDF:33.5/41

All: 0.001+/-0.003 $\chi^2$/NDF: 79.0/78

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 16.216+/-0.005 $\chi^2$/NDF: 943830.6/15

Left Out: 20.692+/-0.004 $\chi^2$/NDF:3516294.4/22

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866705.3/18

Left In: 20.543+/-0.004 $\chi^2$/NDF:2744554.0/20

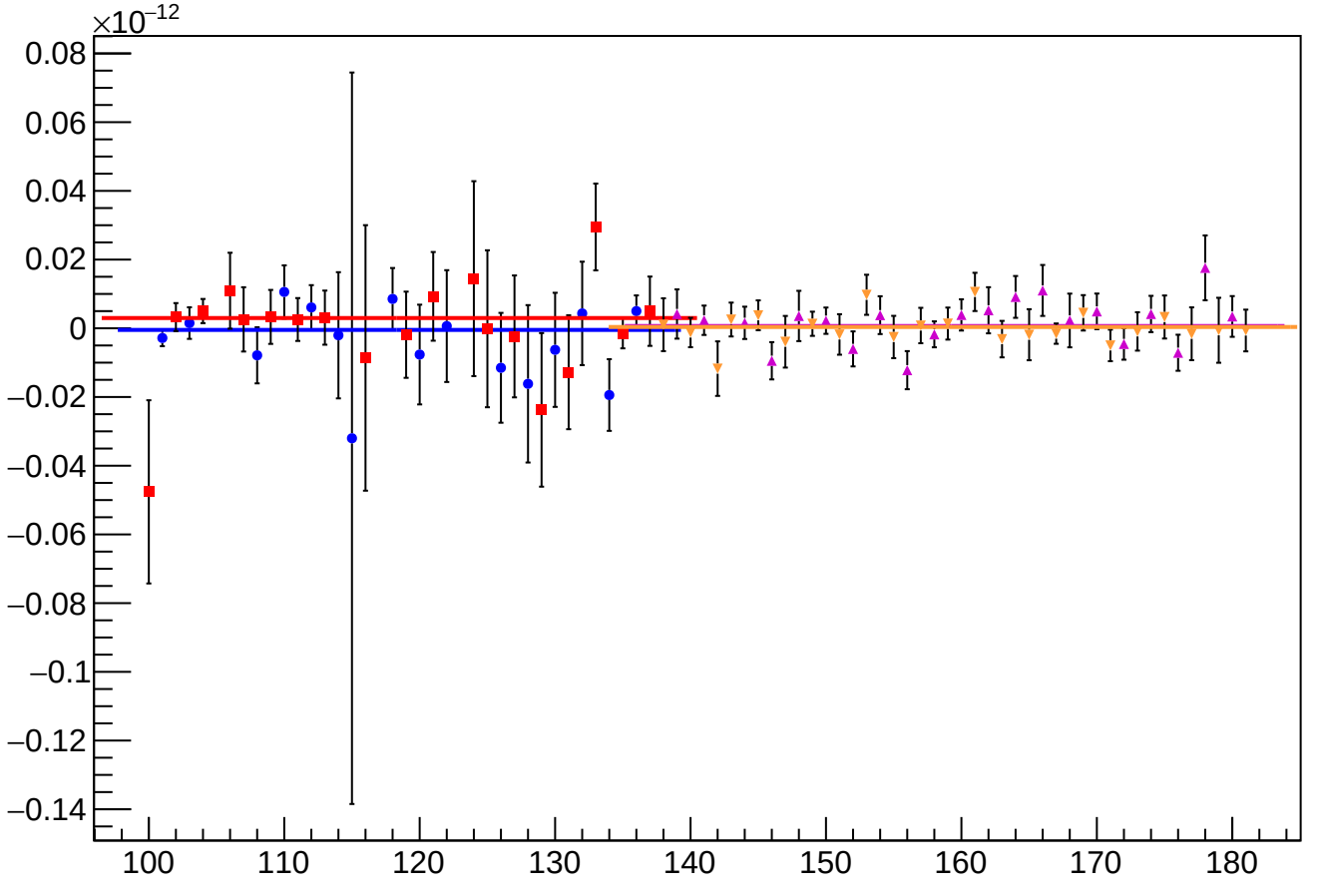
Left: 20.619+/-0.003 $\chi^2$/NDF: 6261645.9/43

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817478.6/34

In: 18.829+/-0.003 $\chi^2$/NDF:4213014.2/36

Out: 19.188+/-0.003 $\chi^2$/NDF:4816200.9/41

All: 19.010+/-0.002 $\chi^2$/NDF: 9036827.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.0/20

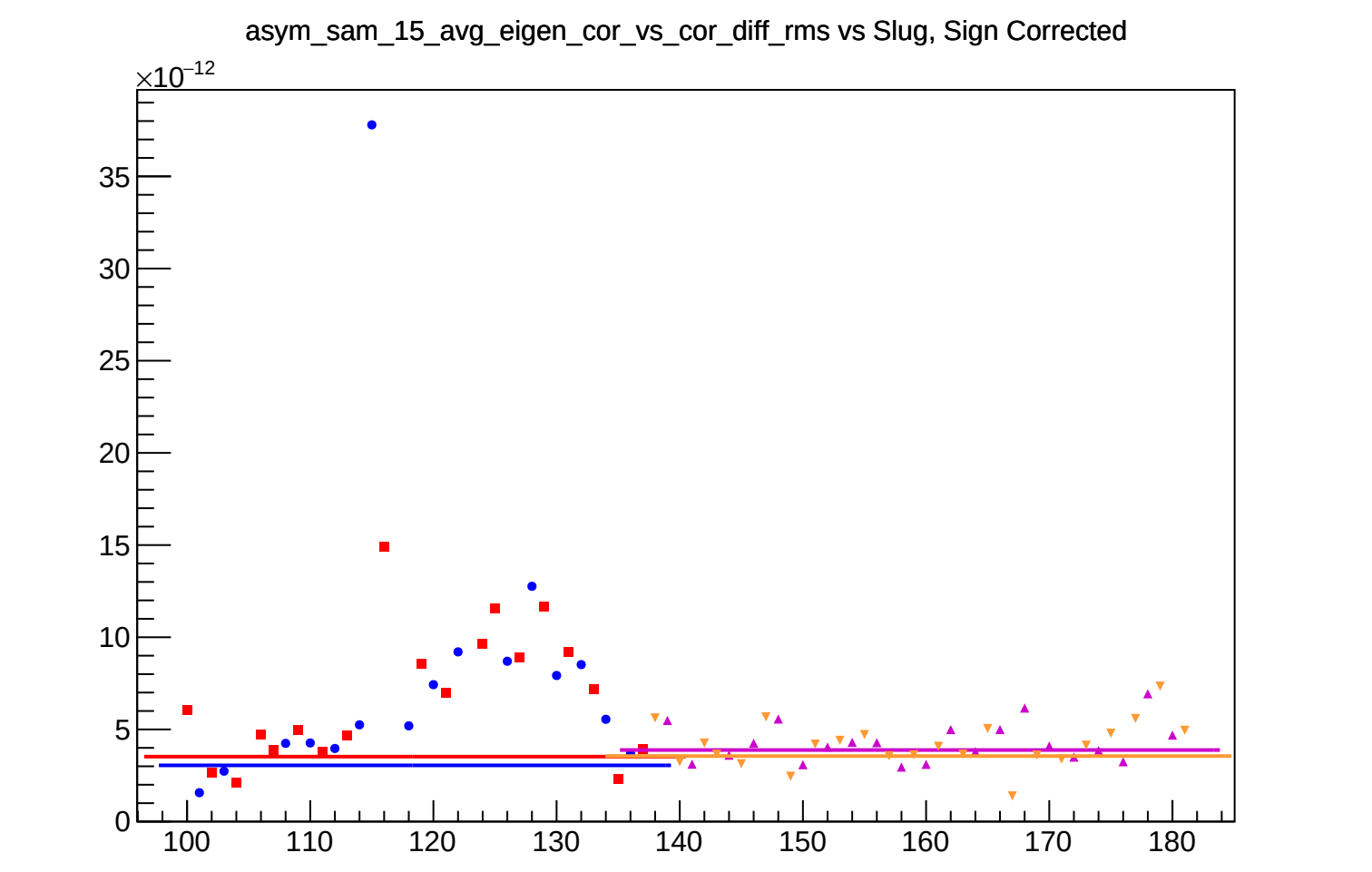
Left: 0.000+/-0.000 $\chi^2$/NDF: 38.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 27.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:37.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:27.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 65.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2937232.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2524170.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2559080.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1137941.9/20

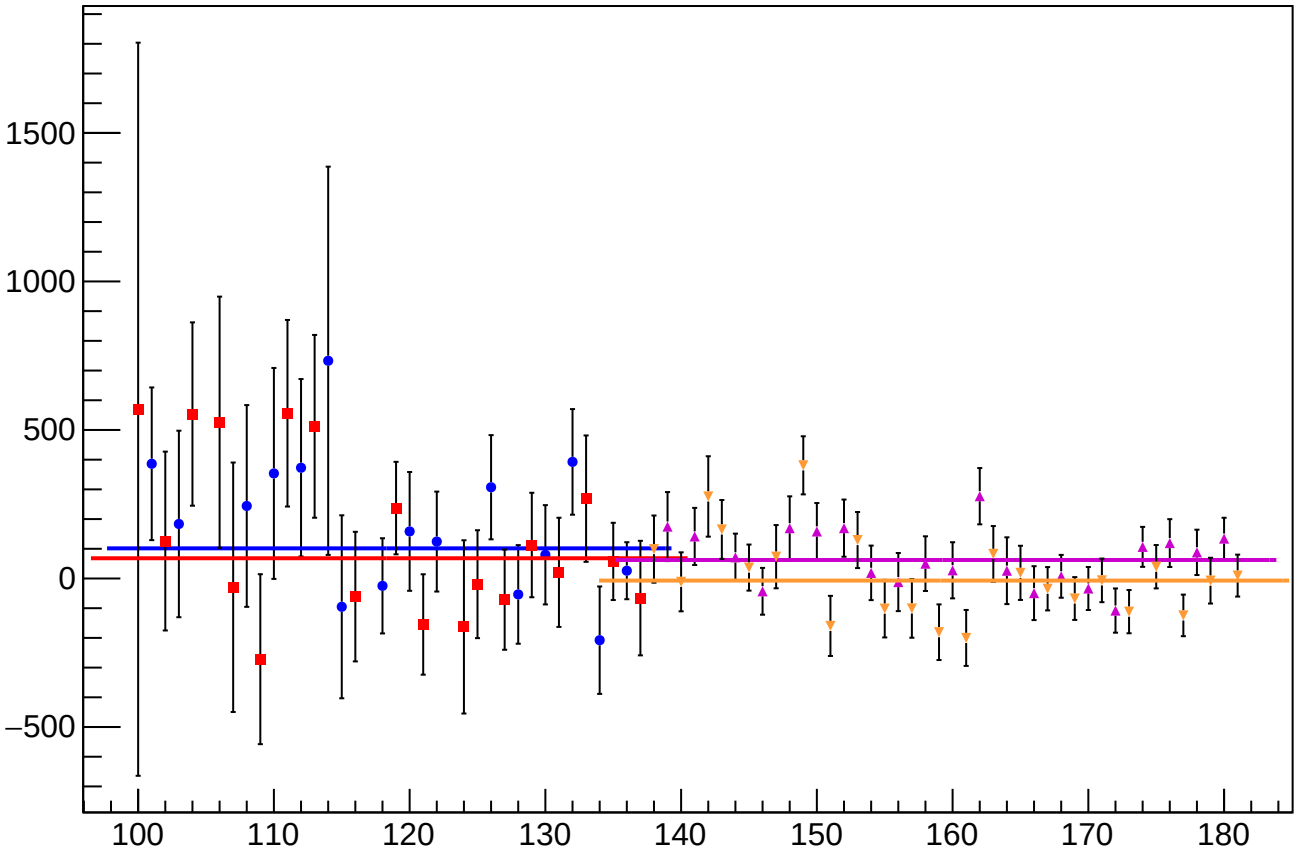
Left: 0.000+/-0.000 $\chi^2$/NDF: 3747192.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5572682.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:4419835.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5083690.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9507312.1/78




Right In: 101.460+/-47.631 $\chi^2$/NDF: 13.4/15

Left Out: -7.013+/-17.987 $\chi^2$/NDF:45.9/22

Right Out: 68.108+/-49.327 $\chi^2$/NDF: 16.1/18

Left In: 62.276+/-18.622 $\chi^2$/NDF:24.0/20

Left: 26.431+/-12.938 $\chi^2$/NDF: 77.1/43

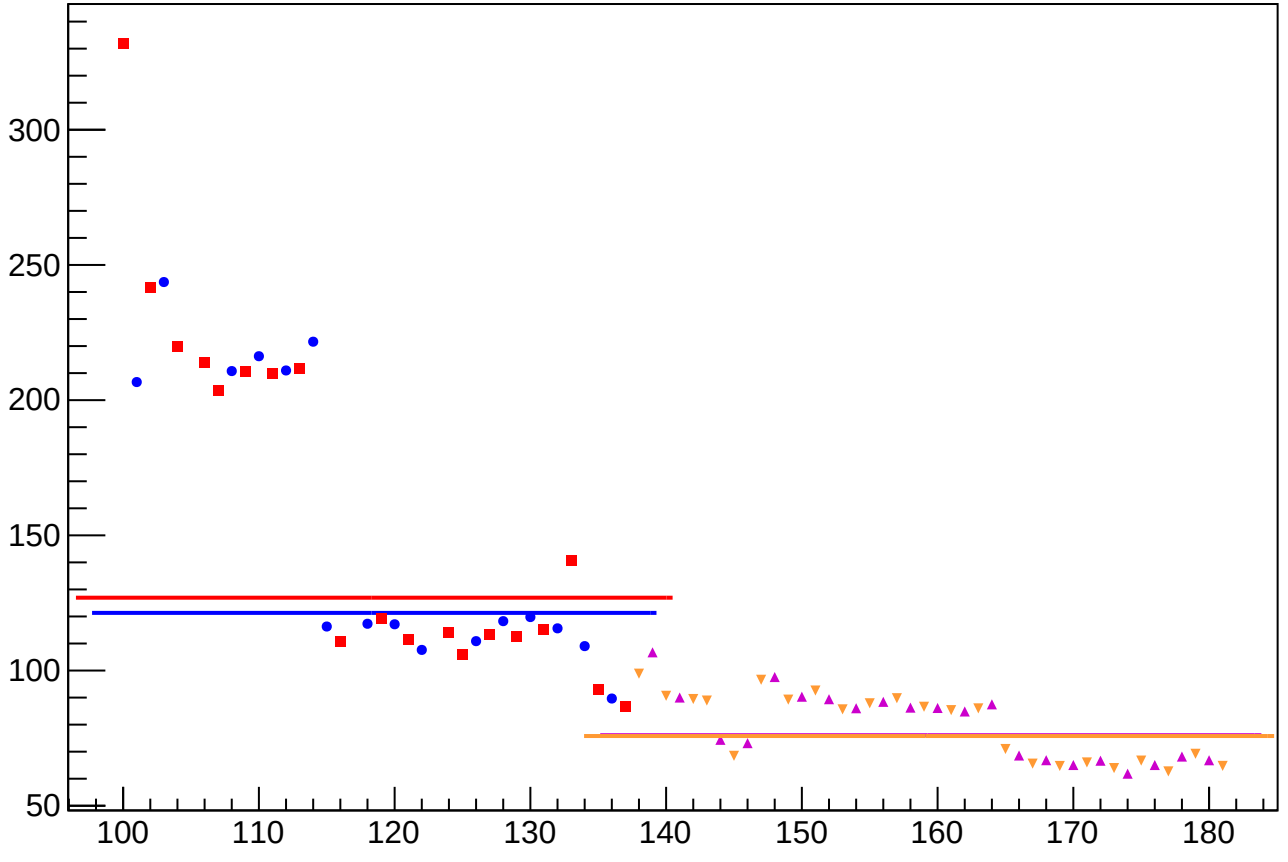
Right: 85.367+/-34.264 $\chi^2$/NDF: 29.7/34

In: 67.471+/-17.344 $\chi^2$/NDF:38.0/36

Out: 1.804+/-16.899 $\chi^2$/NDF:64.1/41

All: 33.785+/-12.104 $\chi^2$/NDF: 109.5/78

# reg_asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286651.5/15

Left Out: 75.784+/-0.013 $\chi^2$/NDF:880052.6/22

Right Out: 126.945+/-0.035 $\chi^2$/NDF: 1471592.1/18

Left In: 76.096+/-0.013 $\chi^2$/NDF:796652.8/20

Left: 75.934+/-0.009 $\chi^2$/NDF: 1676996.7/43

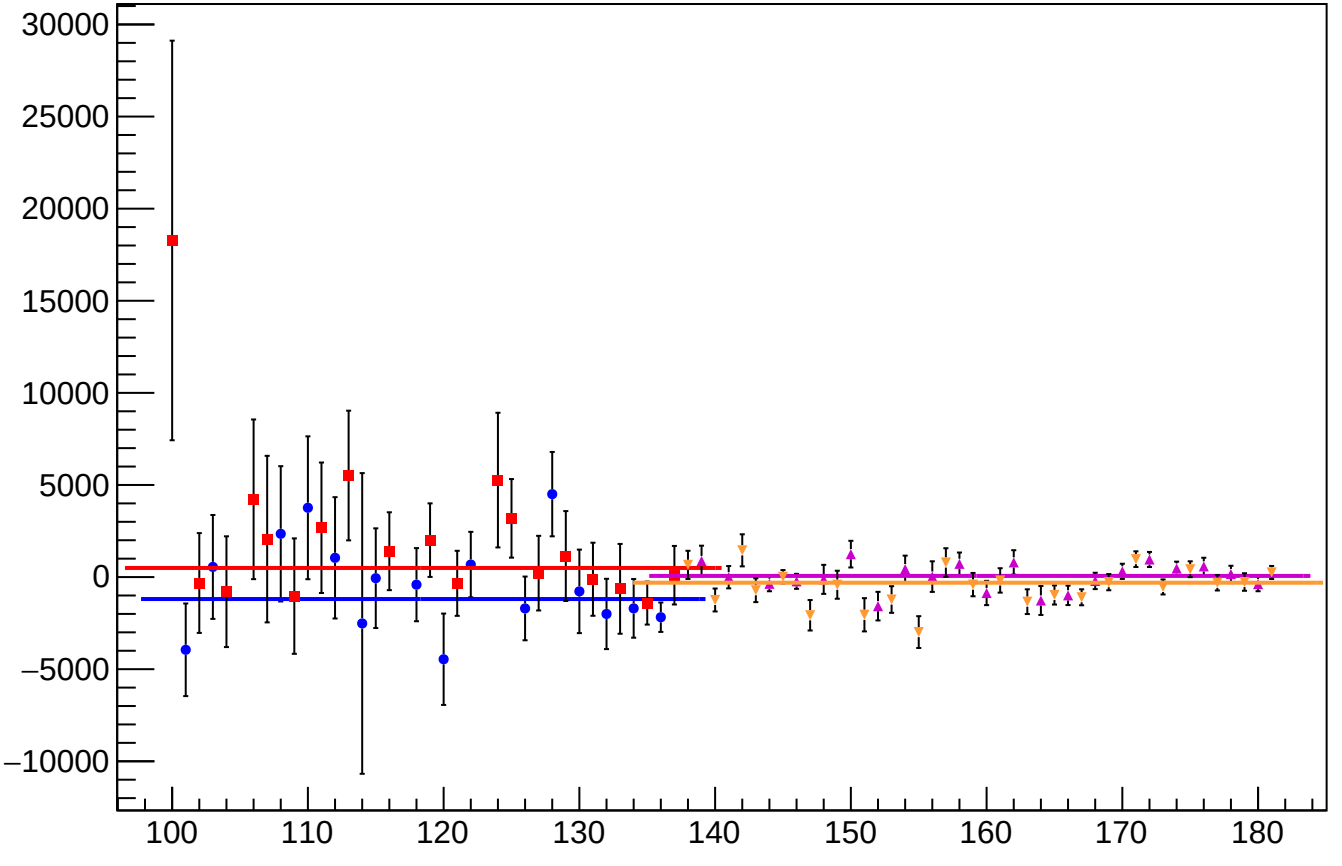
Right: 124.037+/-0.024 $\chi^2$/NDF: 2771675.2/34

In: 82.093+/-0.012 $\chi^2$/NDF:3647617.5/36

Out: 81.788+/-0.012 $\chi^2$/NDF:4250602.1/41

All: 81.937+/-0.009 $\chi^2$/NDF: 7898536.3/78

asym_sam_26_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -1192.168+/-478.908 $\chi^2$/NDF: 15.9/15

Left Out: -304.880+/-110.941 $\chi^2$/NDF:52.8/22

Right Out: 494.627+/-521.756 $\chi^2$/NDF: 13.9/18

Left In: 63.240+/-113.505 $\chi^2$/NDF:30.5/20

Left: -125.024+/-79.338 $\chi^2$/NDF: 88.7/43

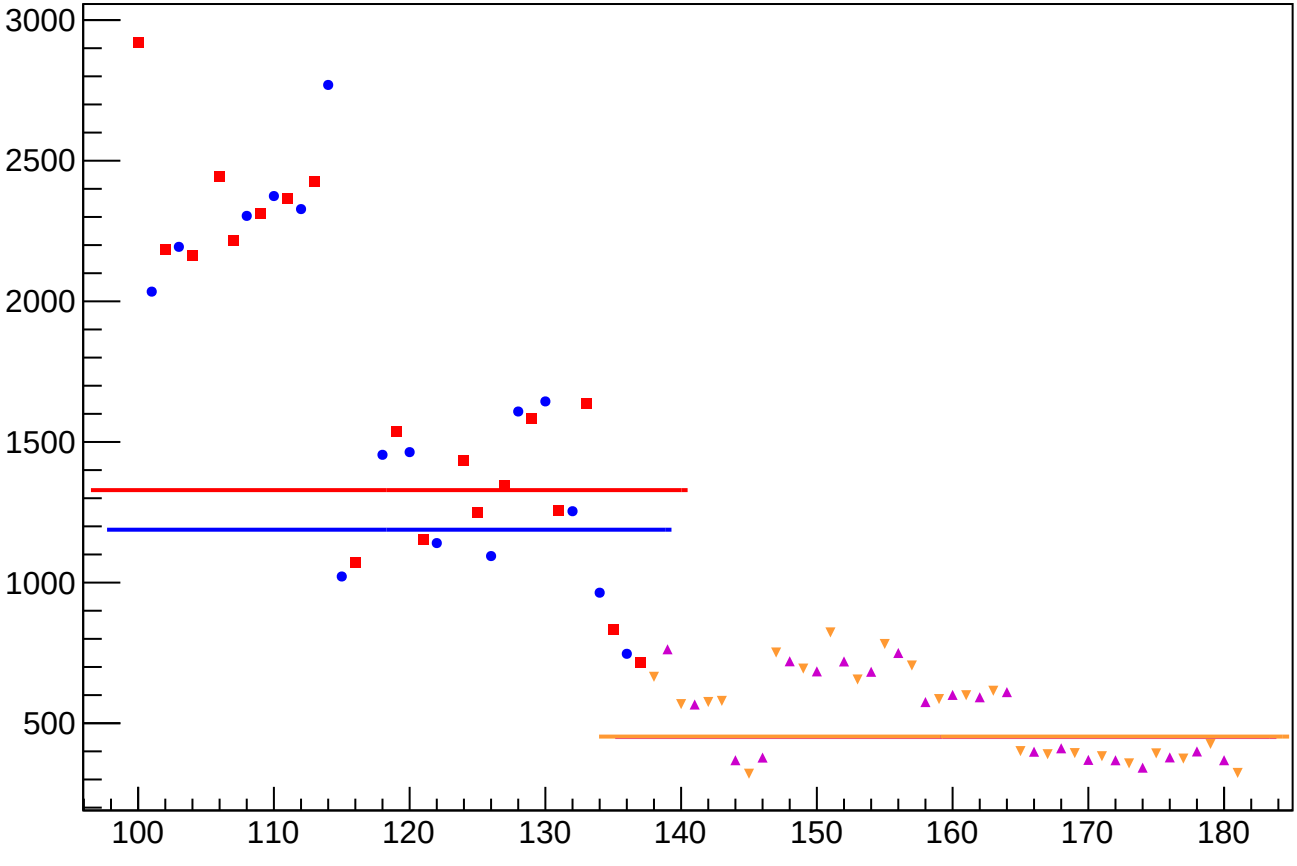
Right: -420.866+/-352.816 $\chi^2$/NDF: 35.5/34

In: -3.528+/-110.445 $\chi^2$/NDF:53.0/36

Out: -270.297+/-108.515 $\chi^2$/NDF:68.9/41

All: -139.264+/-77.405 $\chi^2$/NDF: 124.8/78

asym_sam_26_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1188.069+/-0.339 $\chi^2$/NDF: 2044635.7/15

Left Out: 452.538+/-0.078 $\chi^2$/NDF:3015736.1/22

Right Out: 1328.816+/-0.369 $\chi^2$/NDF: 1957758.3/18

Left In: 450.908+/-0.080 $\chi^2$/NDF:2534406.1/20

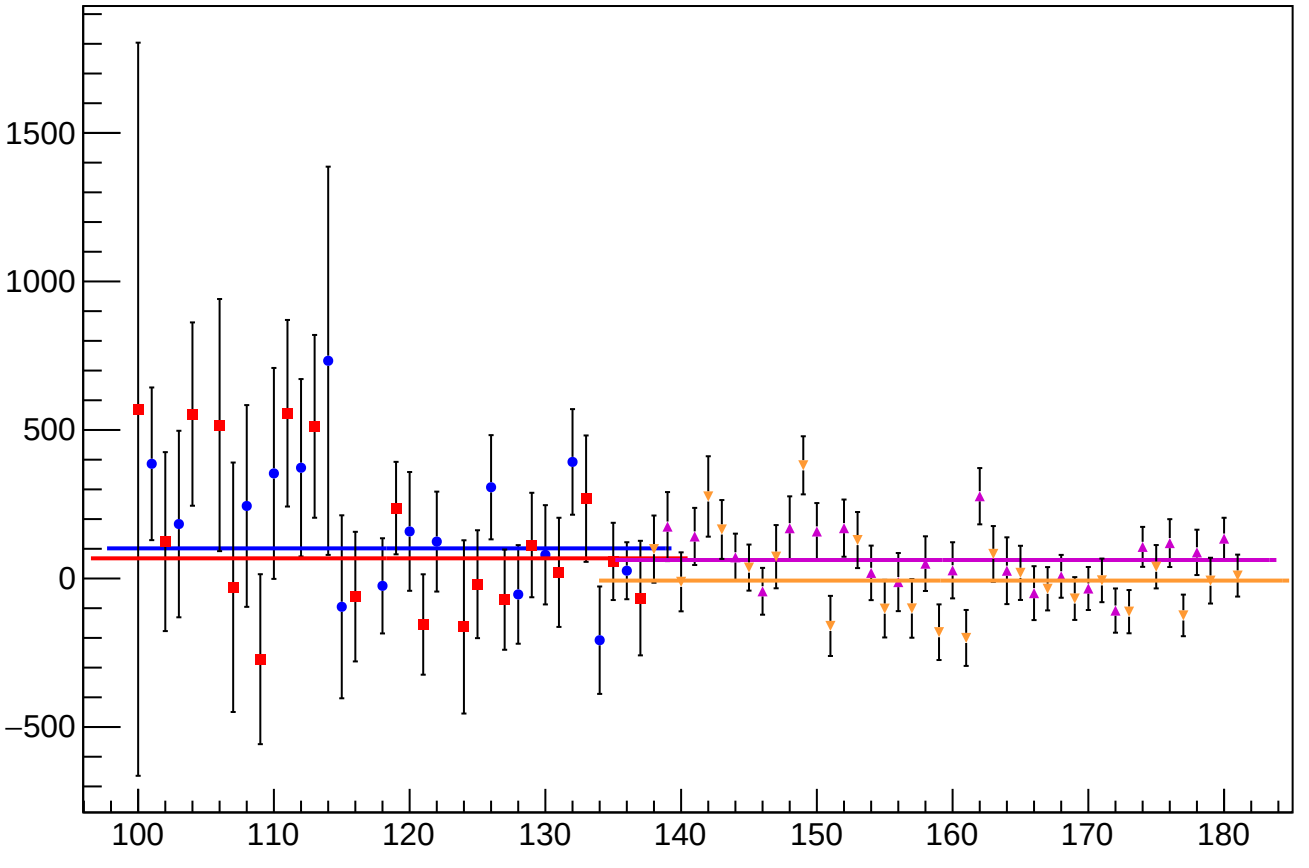
Left: 451.742+/-0.056 $\chi^2$/NDF: 5550352.9/43

Right: 1252.427+/-0.249 $\chi^2$/NDF: 4081382.8/34

In: 490.114+/-0.078 $\chi^2$/NDF:9065624.5/36

Out: 490.442+/-0.077 $\chi^2$/NDF:10370787.9/41

All: 490.281+/-0.055 $\chi^2$/NDF: 19436421.3/78




Right In: 101.446+/-47.631 $\chi^2$/NDF: 13.3/15

Left Out: -7.012+/-17.987 $\chi^2$/NDF:46.0/22

Right Out: 67.881+/-49.331 $\chi^2$/NDF: 16.1/18

Left In: 62.273+/-18.622 $\chi^2$/NDF:24.0/20

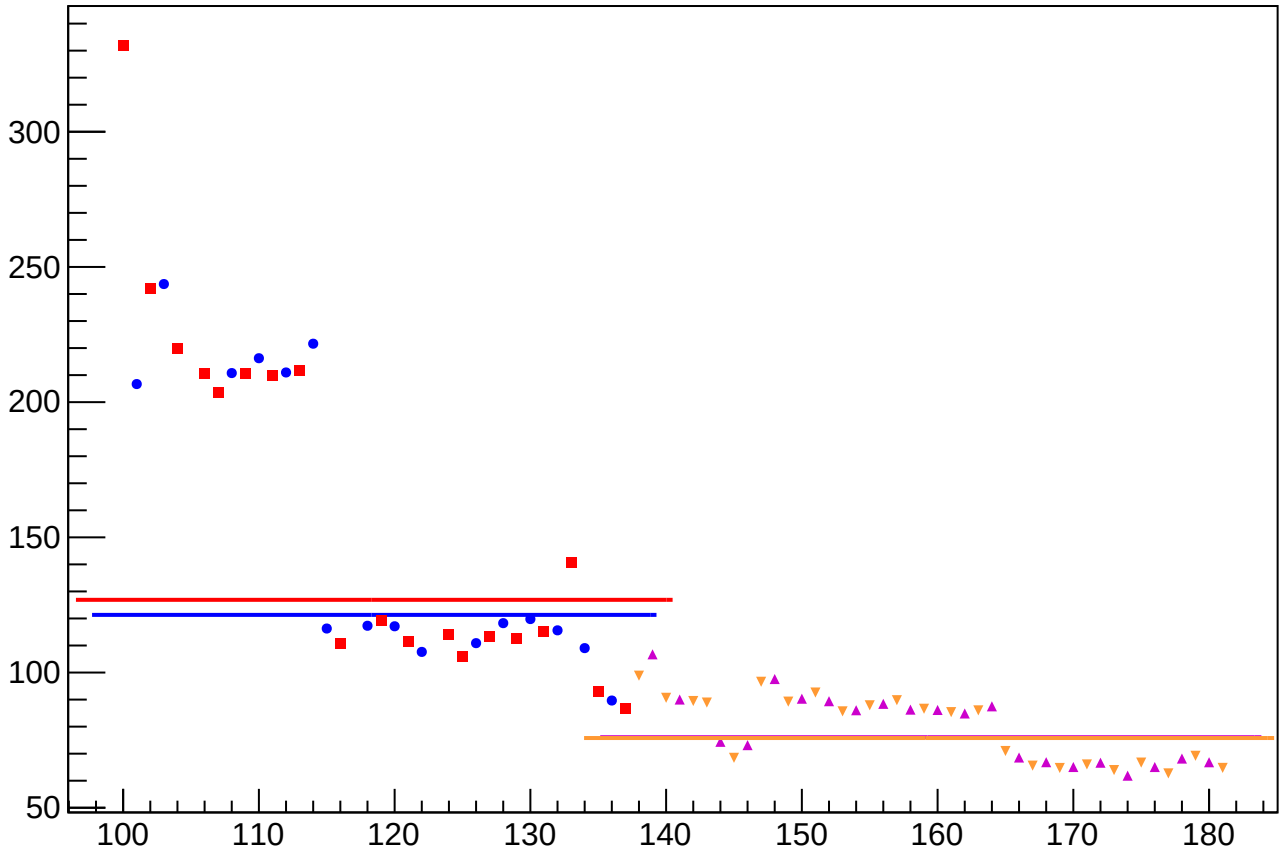
Left: 26.430+/-12.938 $\chi^2$/NDF: 77.1/43

Right: 85.252+/-34.265 $\chi^2$/NDF: 29.7/34

In: 67.467+/-17.344 $\chi^2$/NDF:38.0/36

Out: 1.777+/-16.899 $\chi^2$/NDF:64.1/41

All: 33.769+/-12.104 $\chi^2$/NDF: 109.4/78




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286654.0/15

Left Out: 75.784+/-0.013 $\chi^2$/NDF:880052.6/22

Right Out: 126.895+/-0.035 $\chi^2$/NDF: 1465478.6/18

Left In: 76.096+/-0.013 $\chi^2$/NDF:796652.7/20

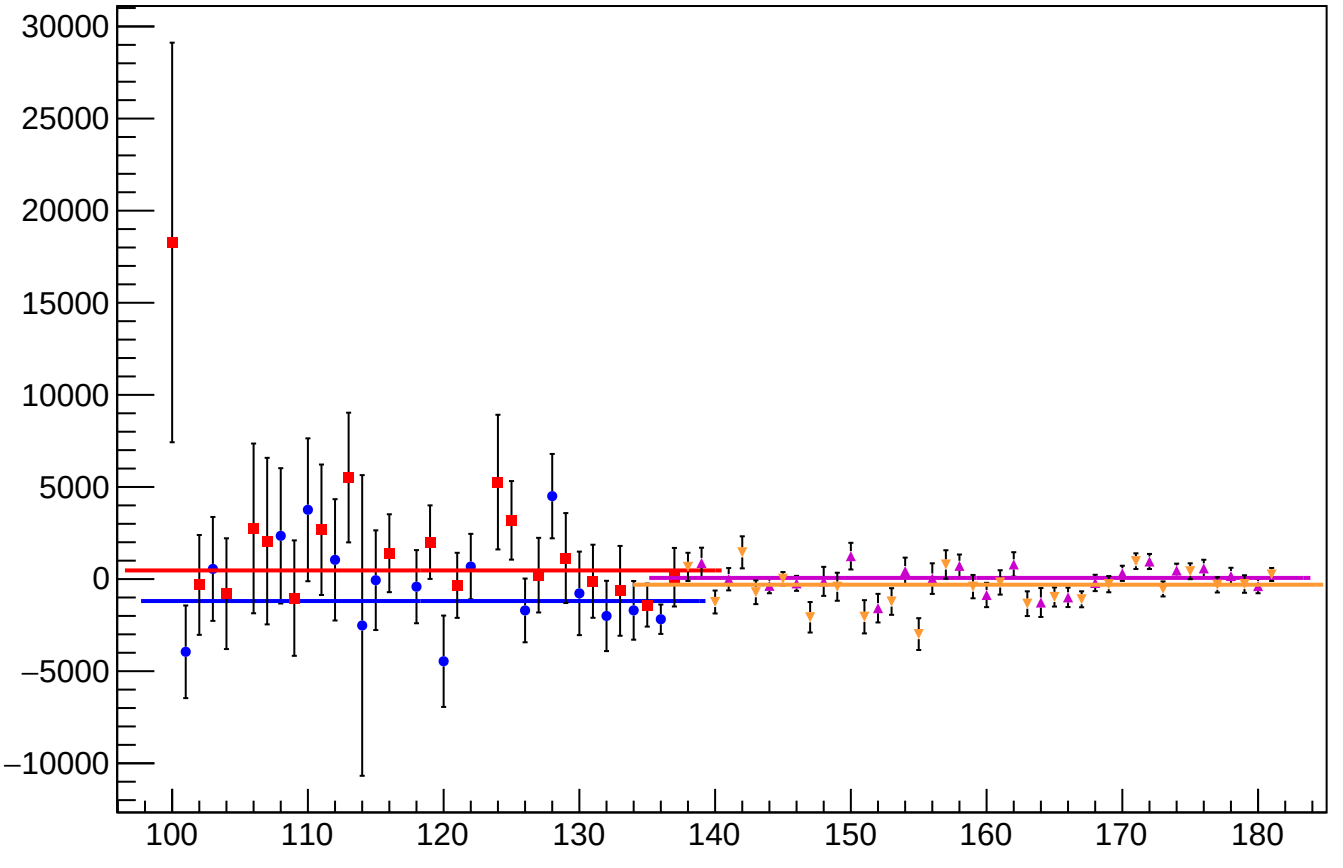
Left: 75.934+/-0.009 $\chi^2$/NDF: 1676996.6/43

Right: 124.013+/-0.024 $\chi^2$/NDF: 2765325.4/34

In: 82.093+/-0.012 $\chi^2$/NDF:3647619.5/36

Out: 81.782+/-0.012 $\chi^2$/NDF:4240568.4/41

All: 81.933+/-0.009 $\chi^2$/NDF: 7888518.4/78




Right In: -1192.145+/-478.909 $\chi^2$/NDF: 15.9/15

Left Out: -304.878+/-110.941 $\chi^2$/NDF:52.8/22

Right Out: 469.736+/-522.203 $\chi^2$/NDF: 13.4/18

Left In: 63.239+/-113.505 $\chi^2$/NDF:30.5/20

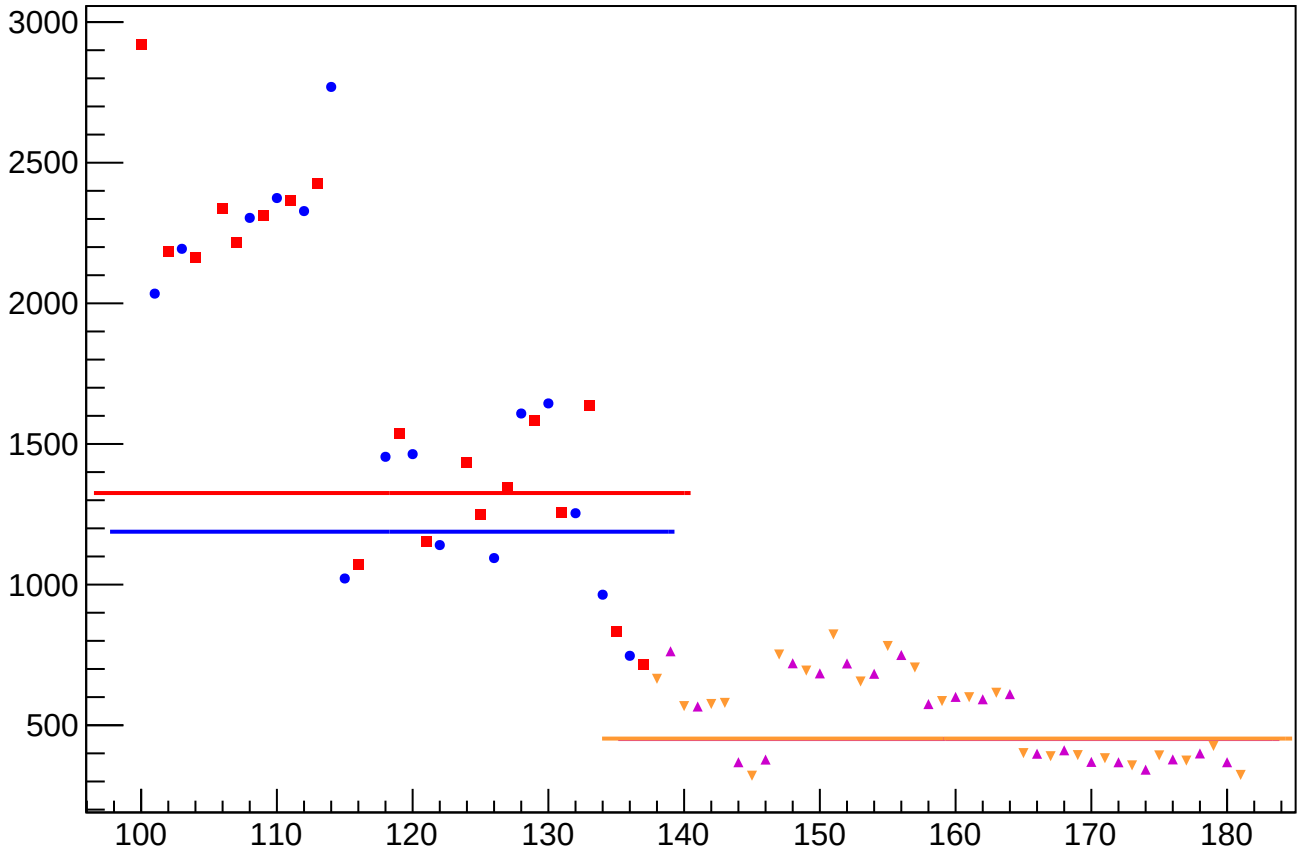
Left: -125.024+/-79.338 $\chi^2$/NDF: 88.7/43

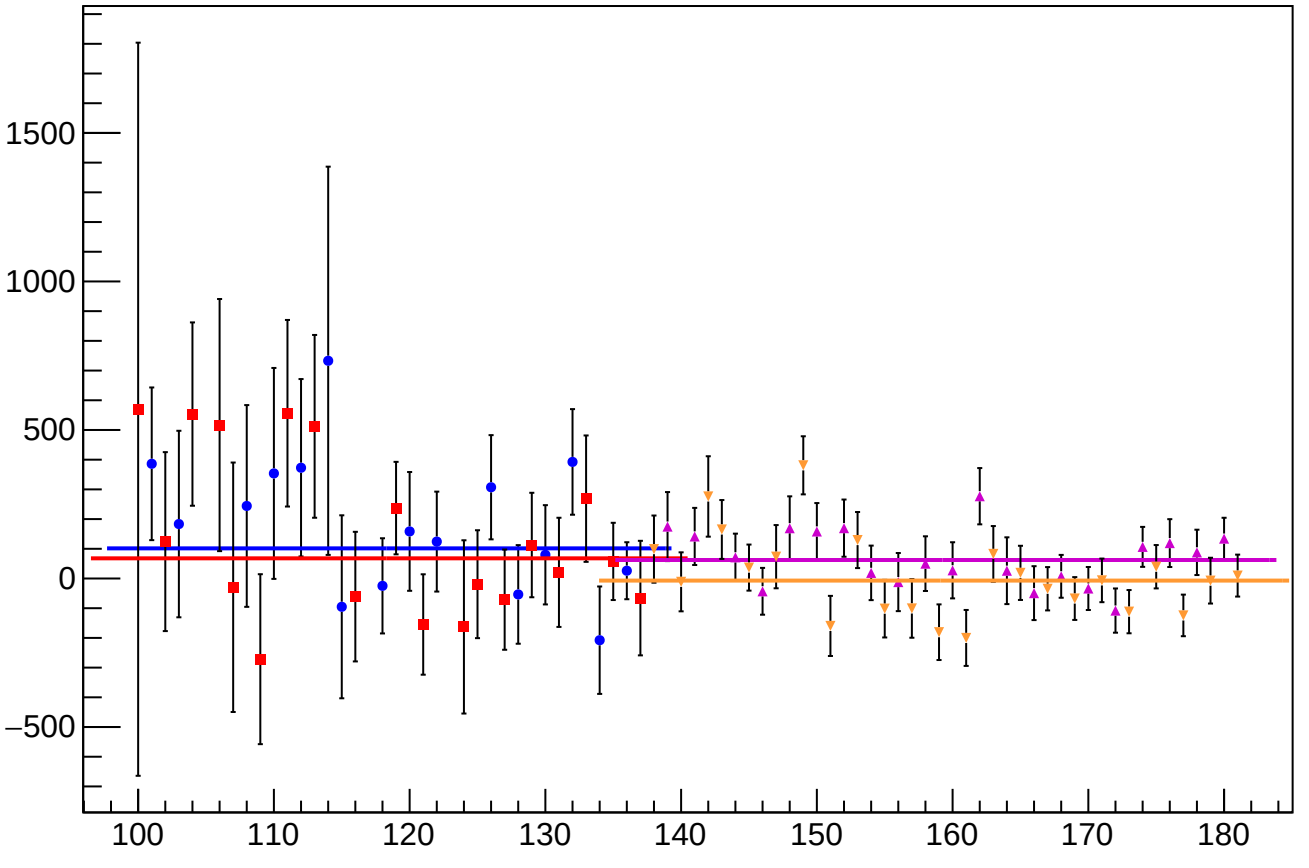
Right: -432.941+/-352.955 $\chi^2$/NDF: 34.8/34

In: -3.528+/-110.445 $\chi^2$/NDF:53.0/36

Out: -271.426+/-108.519 $\chi^2$/NDF:68.3/41

All: -139.834+/-77.407 $\chi^2$/NDF: 124.2/78


asym_sam_26_avg_cor_correction_rms vs Slug, Sign Corrected
3000
2500
2000
1500
1000
500
100
110
120
130
140
150
160
170
180
Right In: 1188.069+/-0.339 χ²/NDF: 2044666.3/15
Left Out: 452.537+/-0.078 χ²/NDF:3015738.9/22
Right Out: 1325.564+/-0.369 χ²/NDF: 1920986.7/18
Left In: 450.909+/-0.080 χ²/NDF:2534407.8/20
Left: 451.742+/-0.056 χ²/NDF: 5550357.3/43
Right: 1250.882+/-0.250 χ²/NDF: 4040963.9/34
In: 490.114+/-0.078 χ²/NDF:9065640.7/36
Out: 490.239+/-0.077 χ²/NDF:10285250.0/41
All: 490.178+/-0.055 χ²/NDF: 19350891.9/78




Right In: 101.446+/-47.631 $\chi^2$/NDF: 13.3/15

Left Out: -7.012+/-17.987 $\chi^2$/NDF:46.0/22

Right Out: 67.881+/-49.331 $\chi^2$/NDF: 16.1/18

Left In: 62.273+/-18.622 $\chi^2$/NDF:24.0/20

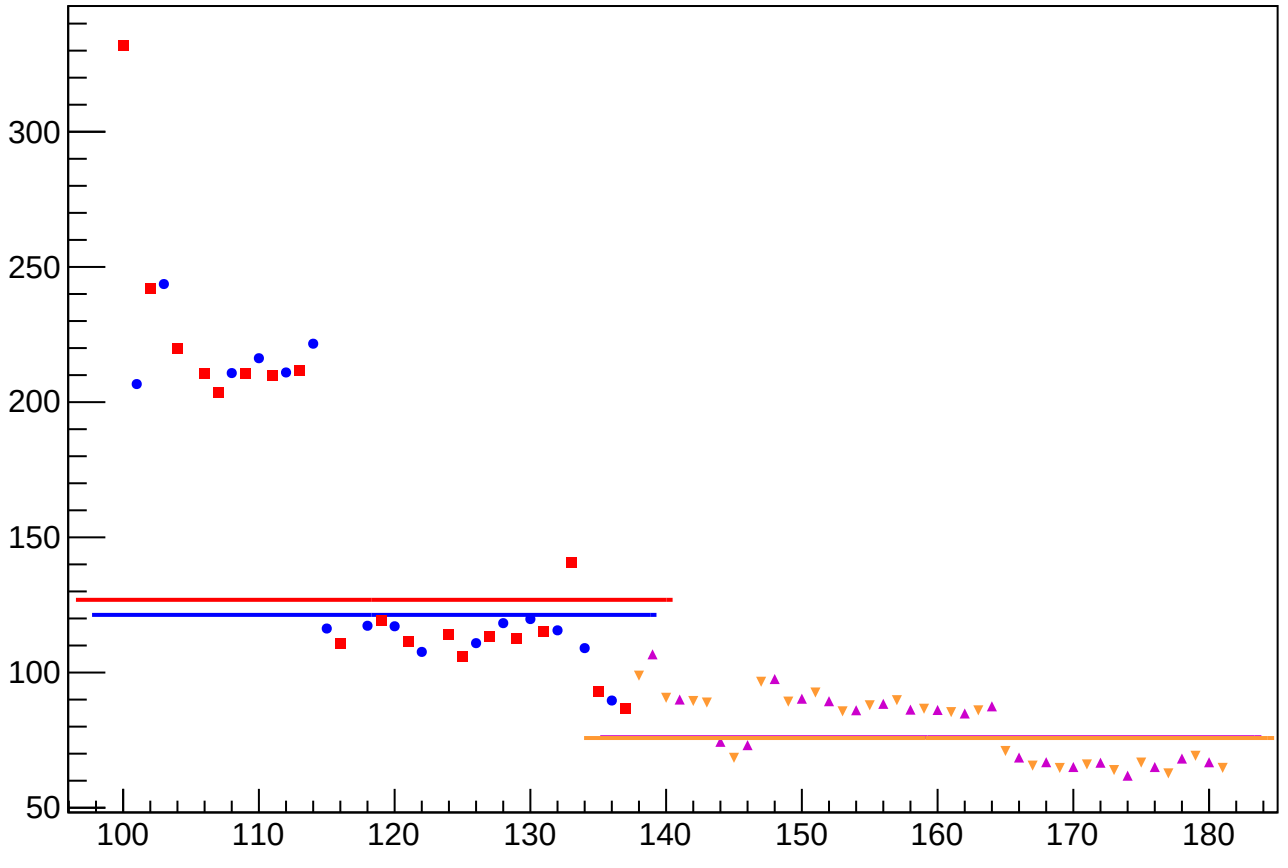
Left: 26.430+/-12.938 $\chi^2$/NDF: 77.1/43

Right: 85.252+/-34.265 $\chi^2$/NDF: 29.7/34

In: 67.467+/-17.344 $\chi^2$/NDF:38.0/36

Out: 1.777+/-16.899 $\chi^2$/NDF:64.1/41

All: 33.769+/-12.104 $\chi^2$/NDF: 109.4/78




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286654.0/15

Left Out: 75.784+/-0.013 $\chi^2$/NDF:880052.6/22

Right Out: 126.895+/-0.035 $\chi^2$/NDF: 1465478.6/18

Left In: 76.096+/-0.013 $\chi^2$/NDF:796652.7/20

Left: 75.934+/-0.009 $\chi^2$/NDF: 1676996.6/43

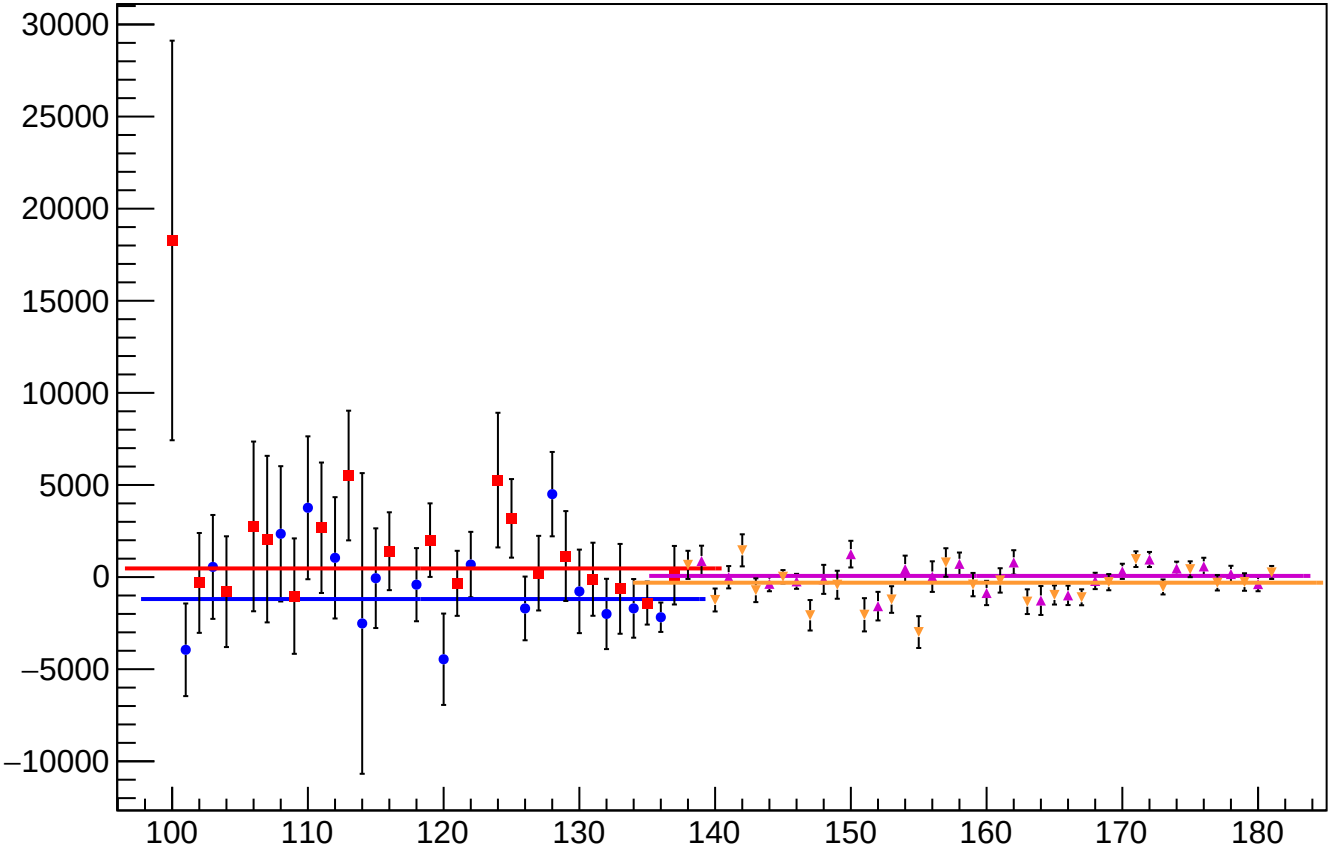
Right: 124.013+/-0.024 $\chi^2$/NDF: 2765325.4/34

In: 82.093+/-0.012 $\chi^2$/NDF:3647619.5/36

Out: 81.782+/-0.012 $\chi^2$/NDF:4240568.4/41

All: 81.933+/-0.009 $\chi^2$/NDF: 7888518.4/78

asym_sam_26_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1192.145+/-478.909 $\chi^2$/NDF: 15.9/15

Left Out: -304.878+/-110.941 $\chi^2$/NDF:52.8/22

Right Out: 469.736+/-522.203 $\chi^2$/NDF: 13.4/18

Left In: 63.239+/-113.505 $\chi^2$/NDF:30.5/20

Left: -125.024+/-79.338 $\chi^2$/NDF: 88.7/43

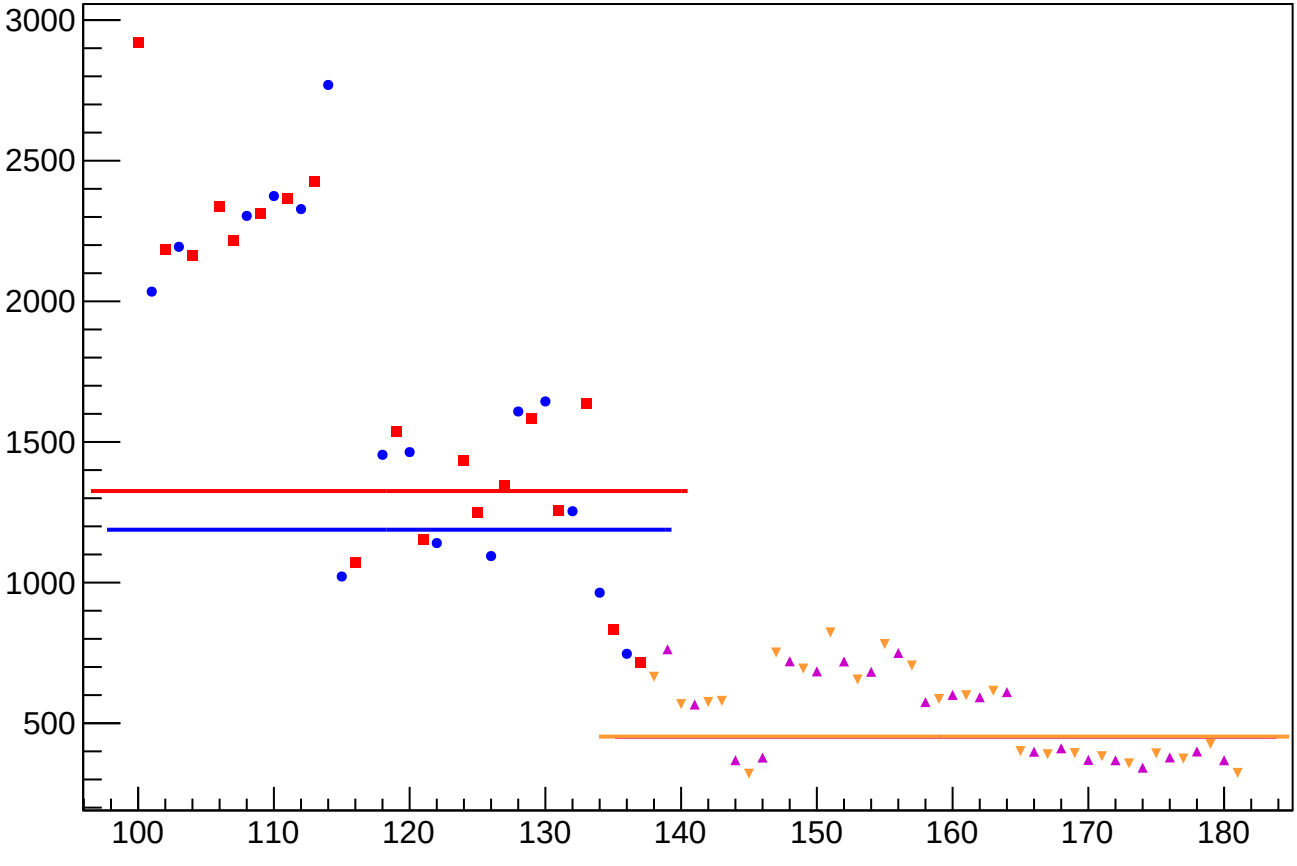
Right: -432.941+/-352.955 $\chi^2$/NDF: 34.8/34

In: -3.528+/-110.445 $\chi^2$/NDF:53.0/36

Out: -271.426+/-108.519 $\chi^2$/NDF:68.3/41

All: -139.834+/-77.407 $\chi^2$/NDF: 124.2/78

asym_sam_26_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1188.069+/-0.339 $\chi^2$/NDF: 2044666.3/15

Left Out: 452.537+/-0.078 $\chi^2$/NDF:3015738.9/22

Right Out: 1325.564+/-0.369 $\chi^2$/NDF: 1920986.7/18

Left In: 450.909+/-0.080 $\chi^2$/NDF:2534407.8/20

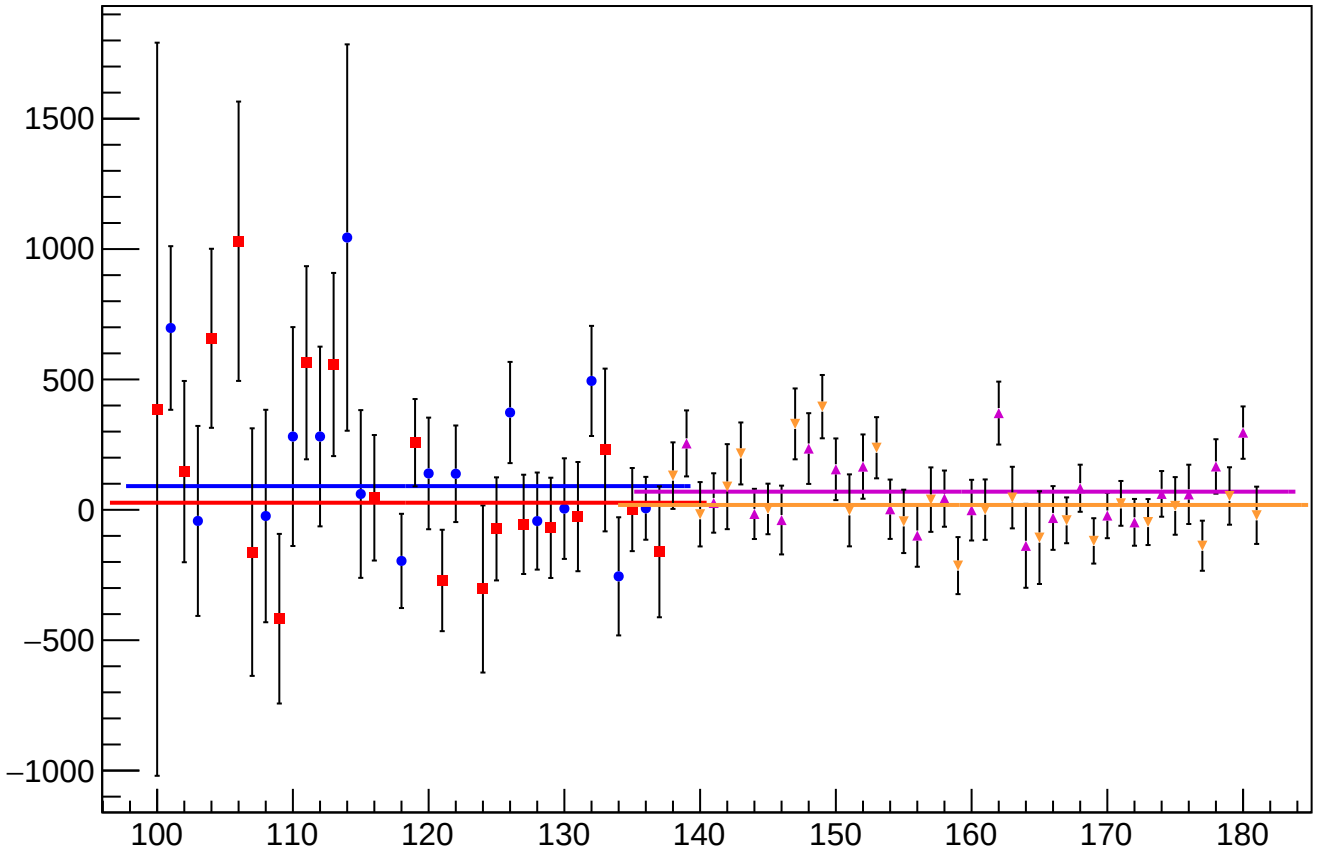
Left: 451.742+/-0.056 $\chi^2$/NDF: 5550357.3/43

Right: 1250.882+/-0.250 $\chi^2$/NDF: 4040963.9/34

In: 490.114+/-0.078 $\chi^2$/NDF:9065640.7/36

Out: 490.239+/-0.077 $\chi^2$/NDF:10285250.0/41

All: 490.178+/-0.055 $\chi^2$/NDF: 19350891.9/78




Right In: 90.908+/-55.565 $\chi^2$/NDF: 18.1/15

Left Out: 18.661+/-23.157 $\chi^2$/NDF:34.0/22

Right Out: 27.170+/-57.015 $\chi^2$/NDF: 20.6/18

Left In: 69.562+/-23.867 $\chi^2$/NDF:26.5/20

Left: 43.343+/-16.620 $\chi^2$/NDF: 62.9/43

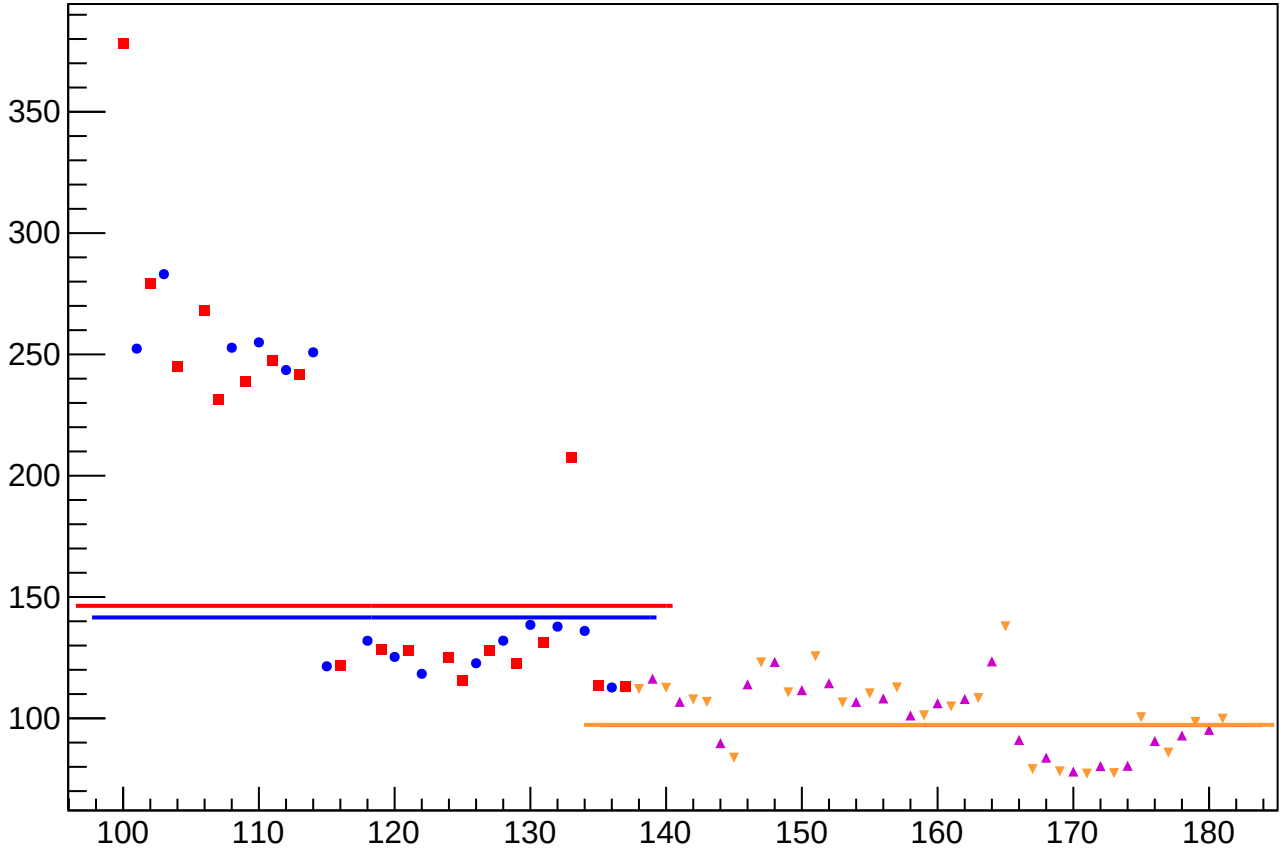
Right: 59.860+/-39.793 $\chi^2$/NDF: 39.3/34

In: 72.887+/-21.929 $\chi^2$/NDF:44.7/36

Out: 19.866+/-21.455 $\chi^2$/NDF:54.6/41

All: 45.796+/-15.336 $\chi^2$/NDF: 102.3/78

# dit_asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 141.586+/-0.039 $\chi^2$/NDF: 1262366.8/15

Left Out: 97.296+/-0.016 $\chi^2$/NDF:922535.8/22

Right Out: 146.368+/-0.040 $\chi^2$/NDF: 1513656.0/18

Left In: 97.208+/-0.017 $\chi^2$/NDF:662394.8/20

Left: 97.253+/-0.012 $\chi^2$/NDF: 1584944.7/43

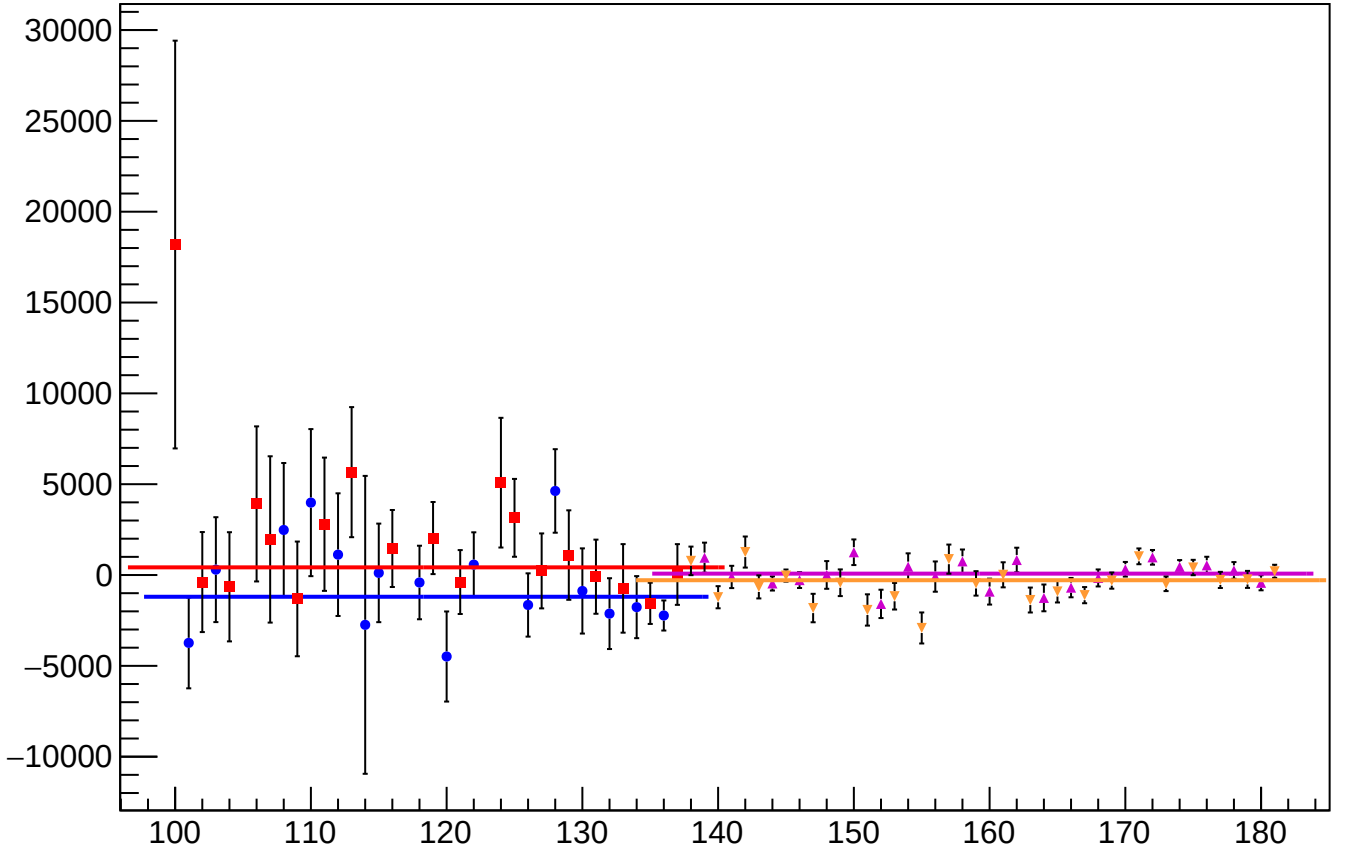
Right: 143.916+/-0.028 $\chi^2$/NDF: 2783239.3/34

In: 104.120+/-0.016 $\chi^2$/NDF:3001836.0/36

Out: 104.245+/-0.015 $\chi^2$/NDF:3707966.4/41

All: 104.184+/-0.011 $\chi^2$/NDF: 6709835.4/78

asym_sam_26_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -1196.663+/-491.384 $\chi^2$/NDF: 16.0/15

Left Out: -286.403+/-111.487 $\chi^2$/NDF:50.1/22

Right Out: 422.161+/-523.834 $\chi^2$/NDF: 14.3/18

Left In: 76.536+/-115.062 $\chi^2$/NDF:30.2/20

Left: -110.659+/-80.067 $\chi^2$/NDF: 85.4/43

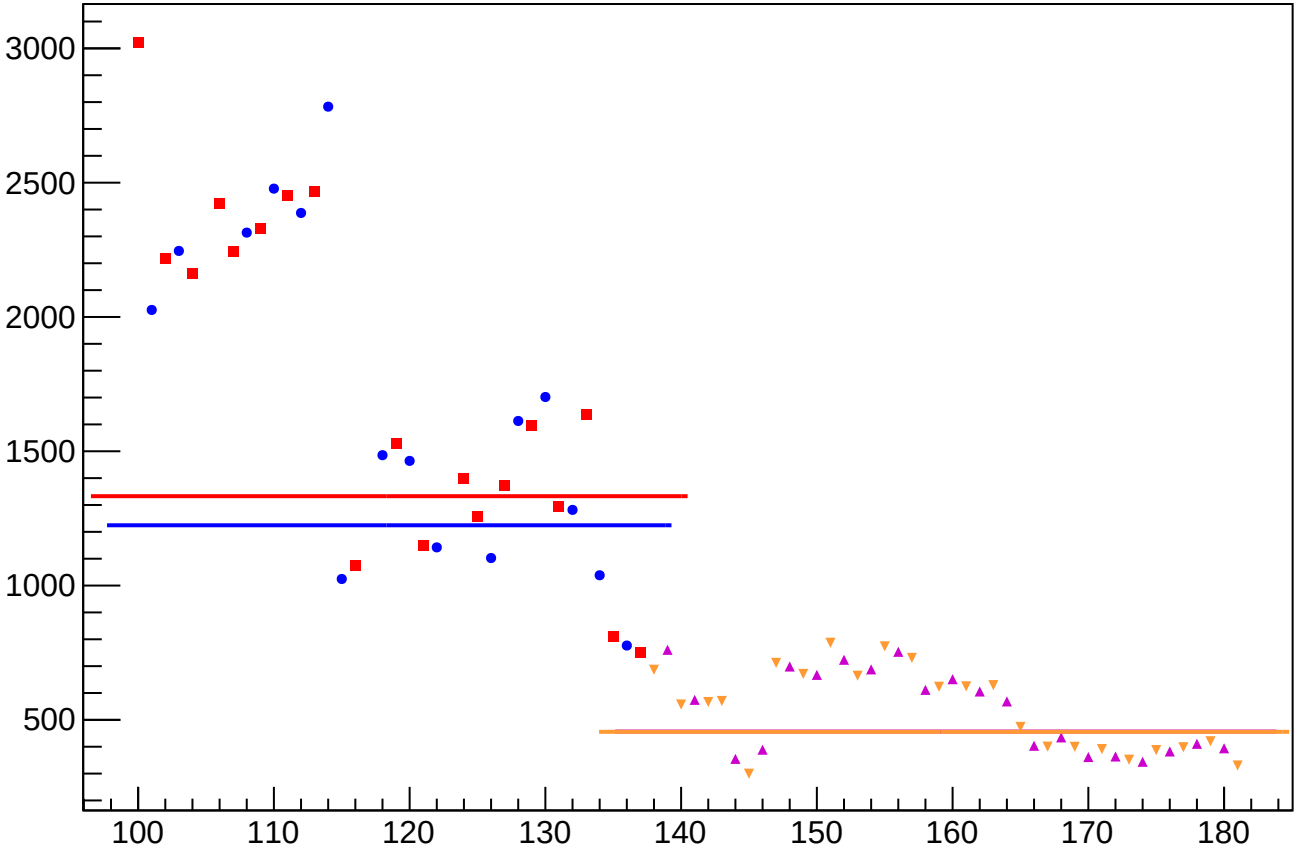
Right: -438.942+/-358.384 $\chi^2$/NDF: 35.3/34

In: 10.355+/-112.031 $\chi^2$/NDF:52.5/36

Out: -255.699+/-109.045 $\chi^2$/NDF:66.1/41

All: -126.265+/-78.141 $\chi^2$/NDF: 121.5/78

asym_sam_26_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1224.470+/-0.347 $\chi^2$/NDF: 1959362.3/15

Left Out: 455.531+/-0.079 $\chi^2$/NDF:3077801.5/22

Right Out: 1332.785+/-0.370 $\chi^2$/NDF: 1994811.5/18

Left In: 456.494+/-0.081 $\chi^2$/NDF:2538049.5/20

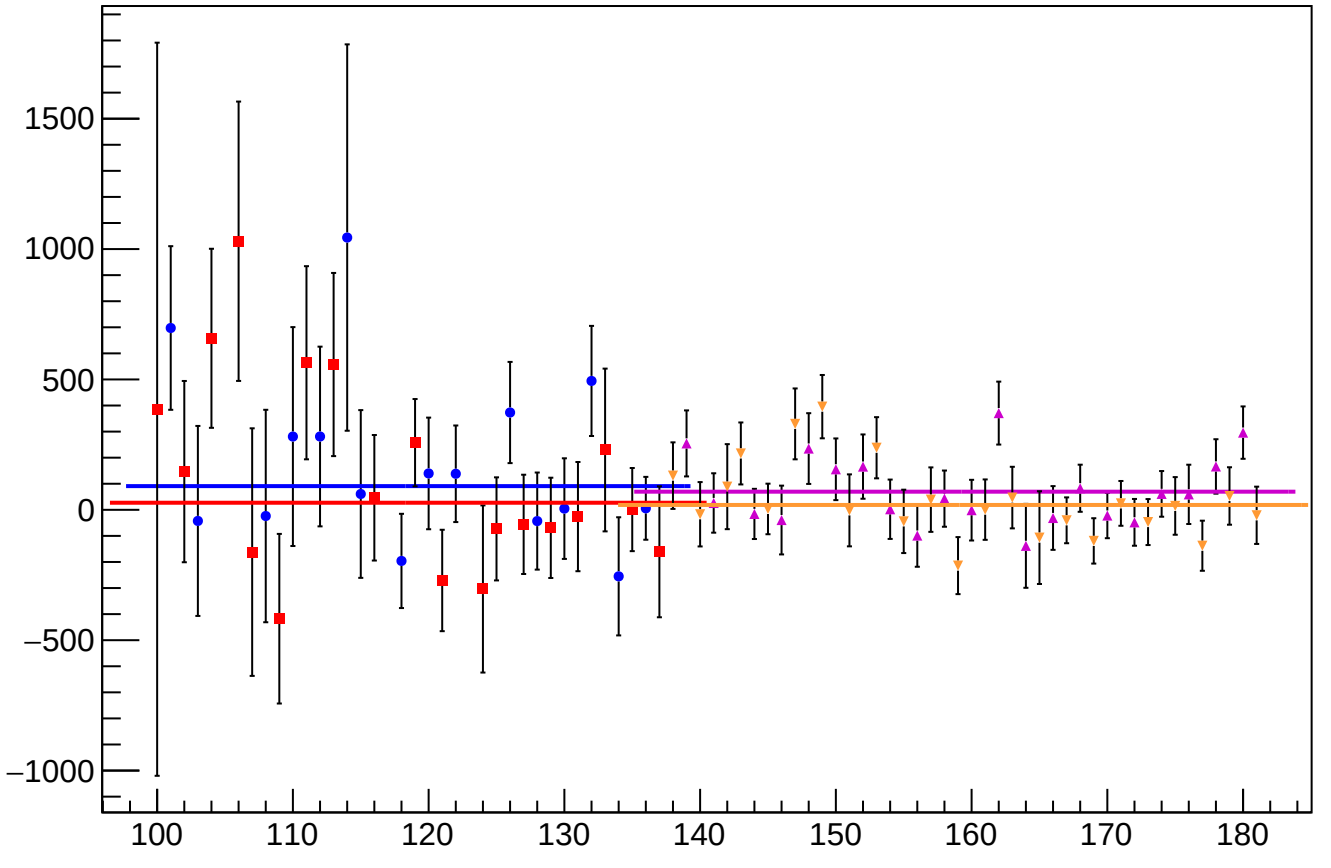
Left: 455.997+/-0.057 $\chi^2$/NDF: 5615923.3/43

Right: 1275.169+/-0.253 $\chi^2$/NDF: 3999659.2/34

In: 496.414+/-0.079 $\chi^2$/NDF:9128688.3/36

Out: 493.545+/-0.077 $\chi^2$/NDF:10438650.9/41

All: 494.941+/-0.055 $\chi^2$/NDF: 19568012.4/78




Right In: 90.910+/-55.564 $\chi^2$/NDF: 18.1/15

Left Out: 18.659+/-23.157 $\chi^2$/NDF:34.0/22

Right Out: 27.170+/-57.015 $\chi^2$/NDF: 20.6/18

Left In: 69.562+/-23.867 $\chi^2$/NDF:26.5/20

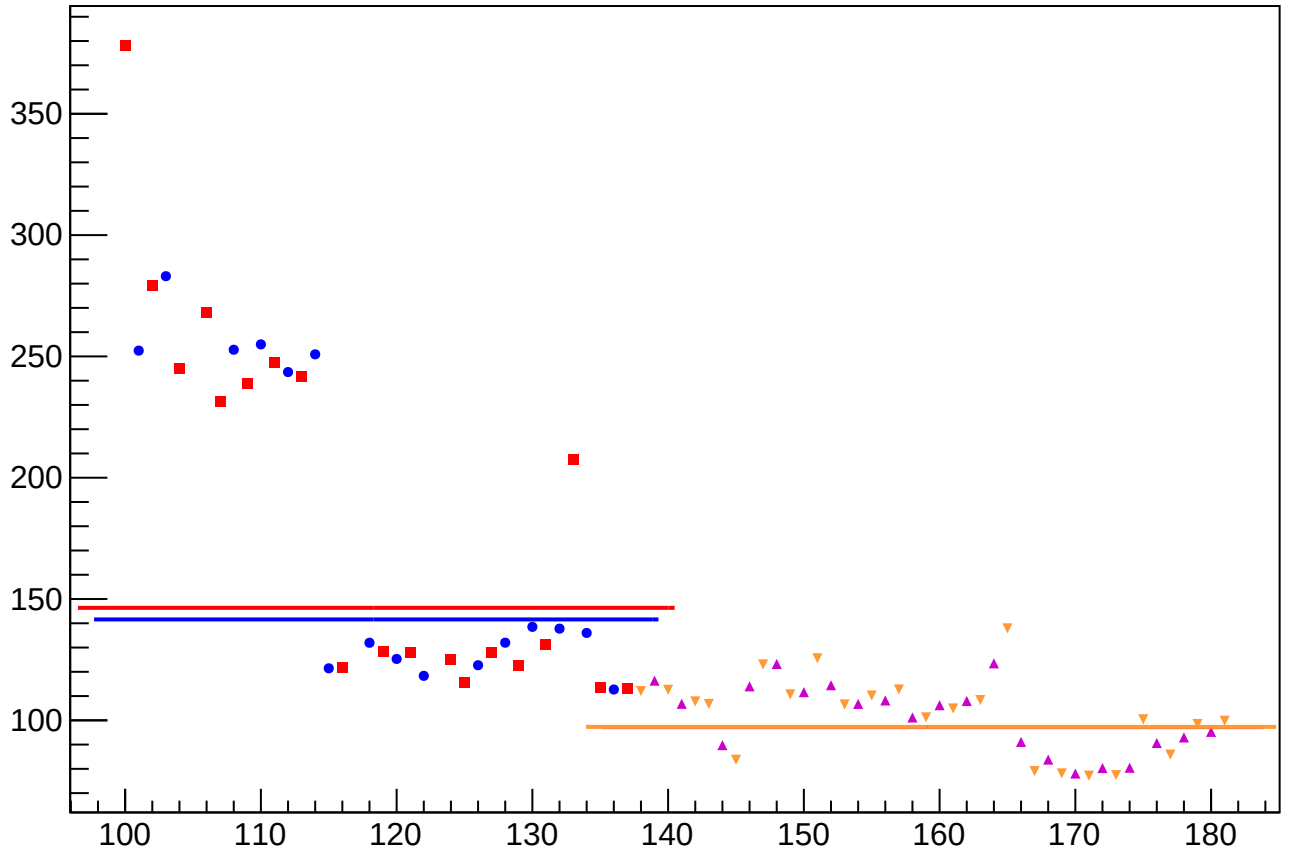
Left: 43.342+/-16.620 $\chi^2$/NDF: 62.9/43

Right: 59.862+/-39.793 $\chi^2$/NDF: 39.3/34

In: 72.887+/-21.930 $\chi^2$/NDF:44.7/36

Out: 19.865+/-21.455 $\chi^2$/NDF:54.6/41

All: 45.796+/-15.336 $\chi^2$/NDF: 102.3/78




Right In: 141.586+/-0.039 $\chi^2$/NDF: 1262350.2/15

Left Out: 97.296+/-0.016 $\chi^2$/NDF:922535.7/22

Right Out: 146.368+/-0.040 $\chi^2$/NDF: 1513641.5/18

Left In: 97.208+/-0.017 $\chi^2$/NDF:662384.1/20

Left: 97.254+/-0.012 $\chi^2$/NDF: 1584933.9/43

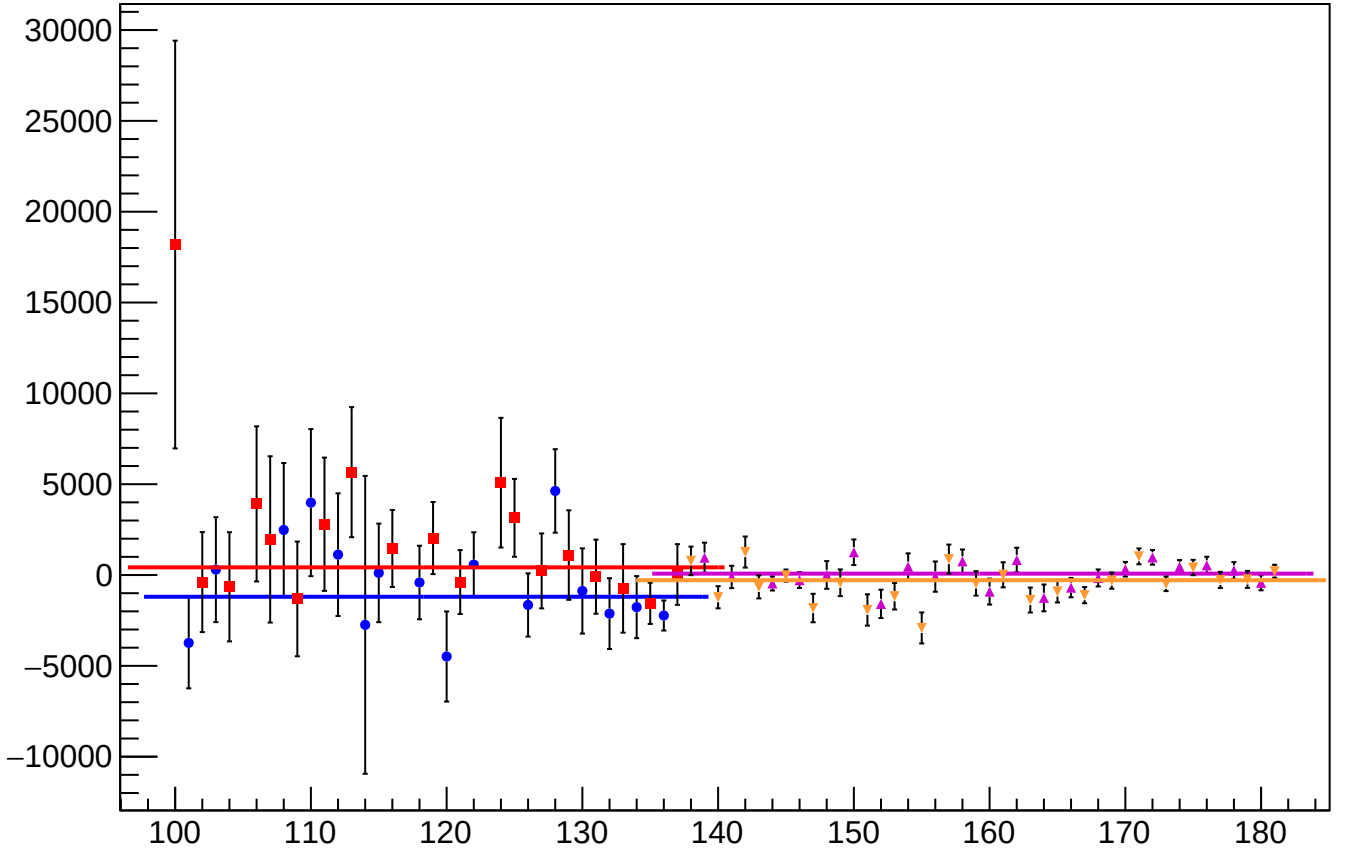
Right: 143.915+/-0.028 $\chi^2$/NDF: 2783209.2/34

In: 104.120+/-0.016 $\chi^2$/NDF:3001764.5/36

Out: 104.245+/-0.015 $\chi^2$/NDF:3707924.0/41

All: 104.184+/-0.011 $\chi^2$/NDF: 6709721.4/78

asym_sam_26_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1196.659+/-491.383 $\chi^2$/NDF: 16.0/15

Left Out: -286.402+/-111.487 $\chi^2$/NDF:50.1/22

Right Out: 422.163+/-523.833 $\chi^2$/NDF: 14.3/18

Left In: 76.536+/-115.062 $\chi^2$/NDF:30.2/20

Left: -110.659+/-80.067 $\chi^2$/NDF: 85.4/43

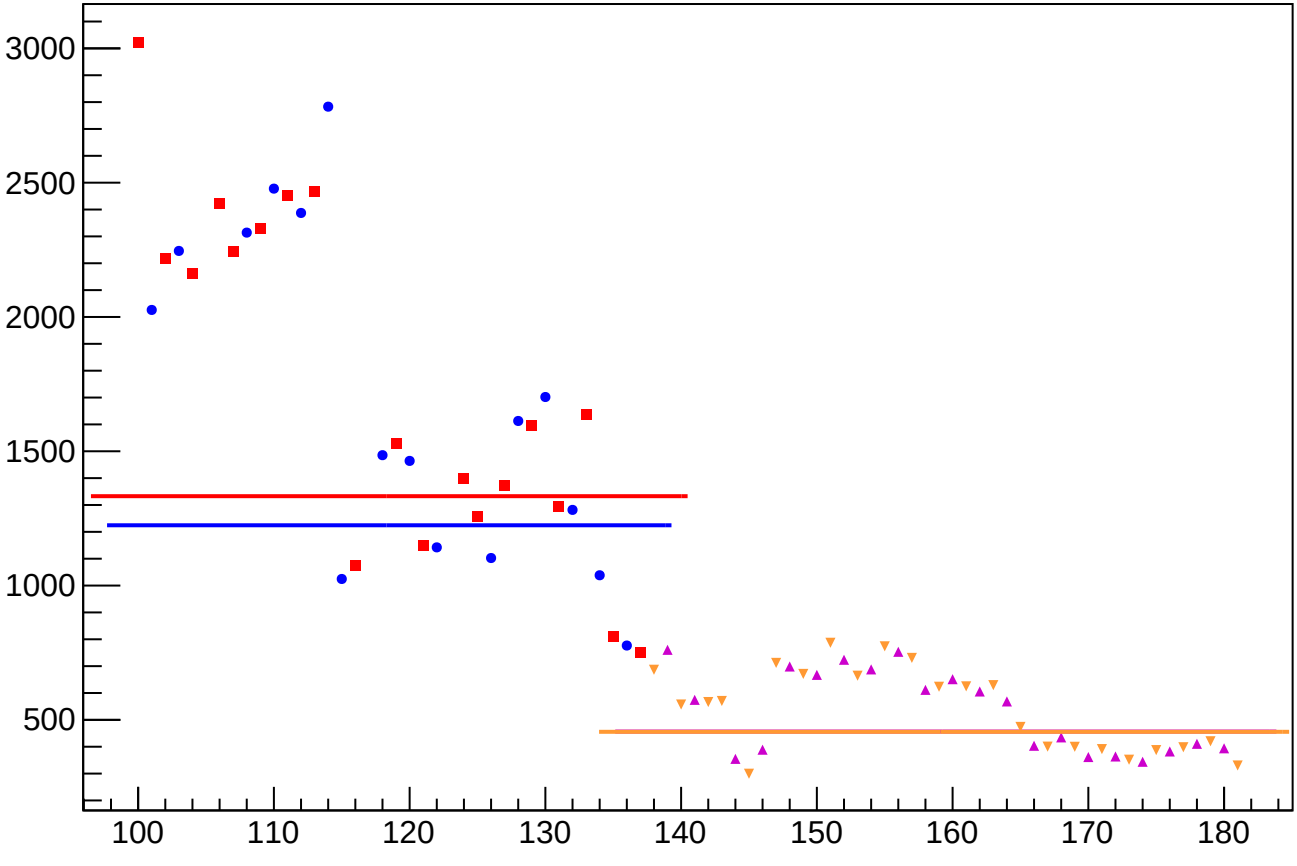
Right: -438.939+/-358.384 $\chi^2$/NDF: 35.3/34

In: 10.355+/-112.031 $\chi^2$/NDF:52.5/36

Out: -255.698+/-109.045 $\chi^2$/NDF:66.1/41

All: -126.265+/-78.141 $\chi^2$/NDF: 121.5/78

asym_sam_26_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1224.470+/-0.347 $\chi^2$/NDF: 1959341.1/15

Left Out: 455.530+/-0.079 $\chi^2$/NDF:3077827.3/22

Right Out: 1332.784+/-0.370 $\chi^2$/NDF: 1994794.3/18

Left In: 456.494+/-0.081 $\chi^2$/NDF:2538049.2/20

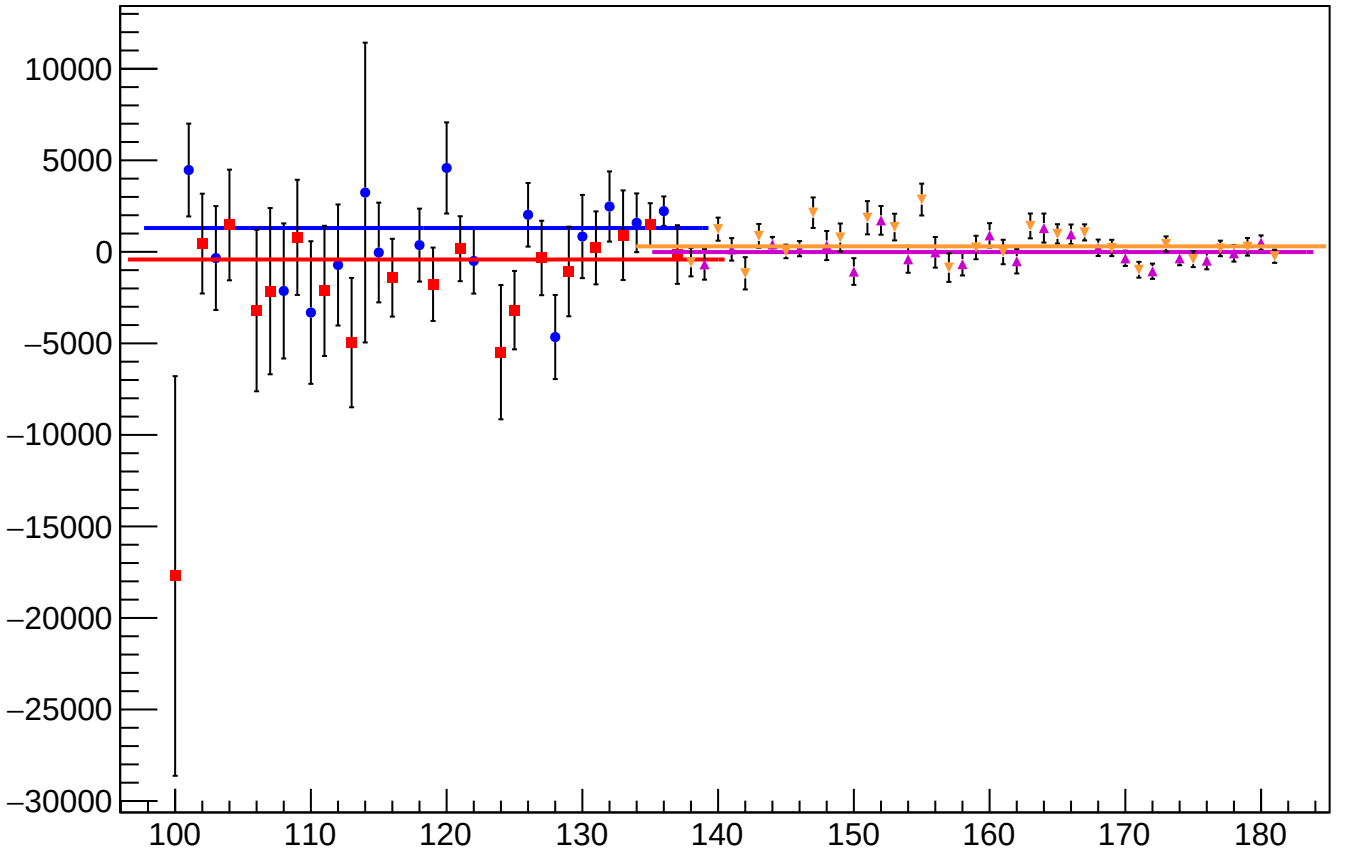
Left: 455.997+/-0.057 $\chi^2$/NDF: 5615948.9/43

Right: 1275.168+/-0.253 $\chi^2$/NDF: 3999620.7/34

In: 496.414+/-0.079 $\chi^2$/NDF:9128671.4/36

Out: 493.545+/-0.077 $\chi^2$/NDF:10438670.9/41

All: 494.940+/-0.055 $\chi^2$/NDF: 19568015.7/78




Right In: 1301.623+/-481.959 $\chi^2$/NDF: 16.5/15

Left Out: 300.549+/-112.559 $\chi^2$/NDF:50.1/22

Right Out: -418.283+/-524.515 $\chi^2$/NDF: 13.0/18

Left In: -11.768+/-115.207 $\chi^2$/NDF:29.8/20

Left: 148.021+/-80.511 $\chi^2$/NDF: 83.7/43

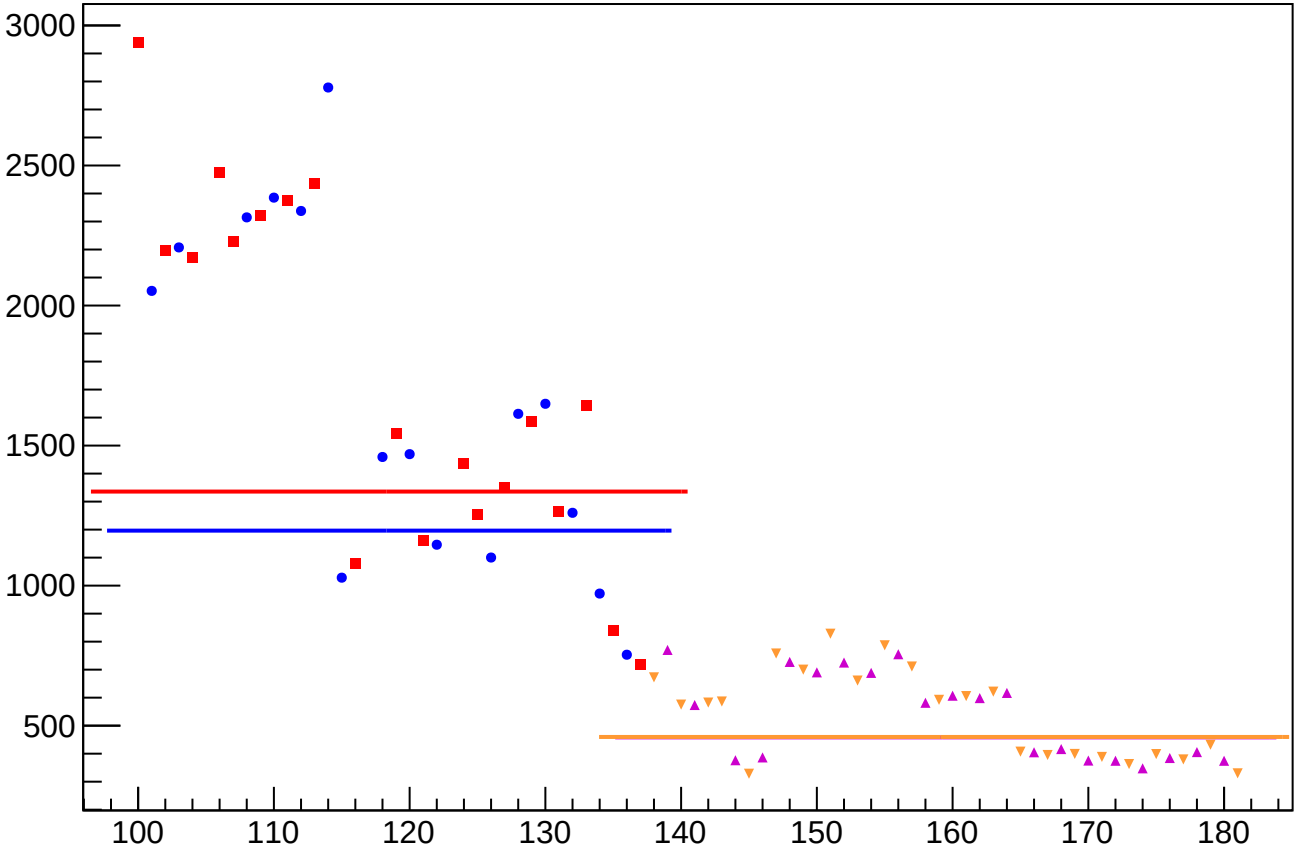
Right: 514.263+/-354.889 $\chi^2$/NDF: 35.3/34

In: 59.223+/-112.051 $\chi^2$/NDF:53.3/36

Out: 268.902+/-110.054 $\chi^2$/NDF:65.0/41

All: 165.948+/-78.516 $\chi^2$/NDF: 120.0/78

# asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 1196.353+/-0.341 $\chi^2$/NDF: 2031710.2/15

Left Out: 459.678+/-0.080 $\chi^2$/NDF:2943250.5/22

Right Out: 1335.809+/-0.371 $\chi^2$/NDF: 1951472.1/18

Left In: 458.148+/-0.081 $\chi^2$/NDF:2475573.3/20

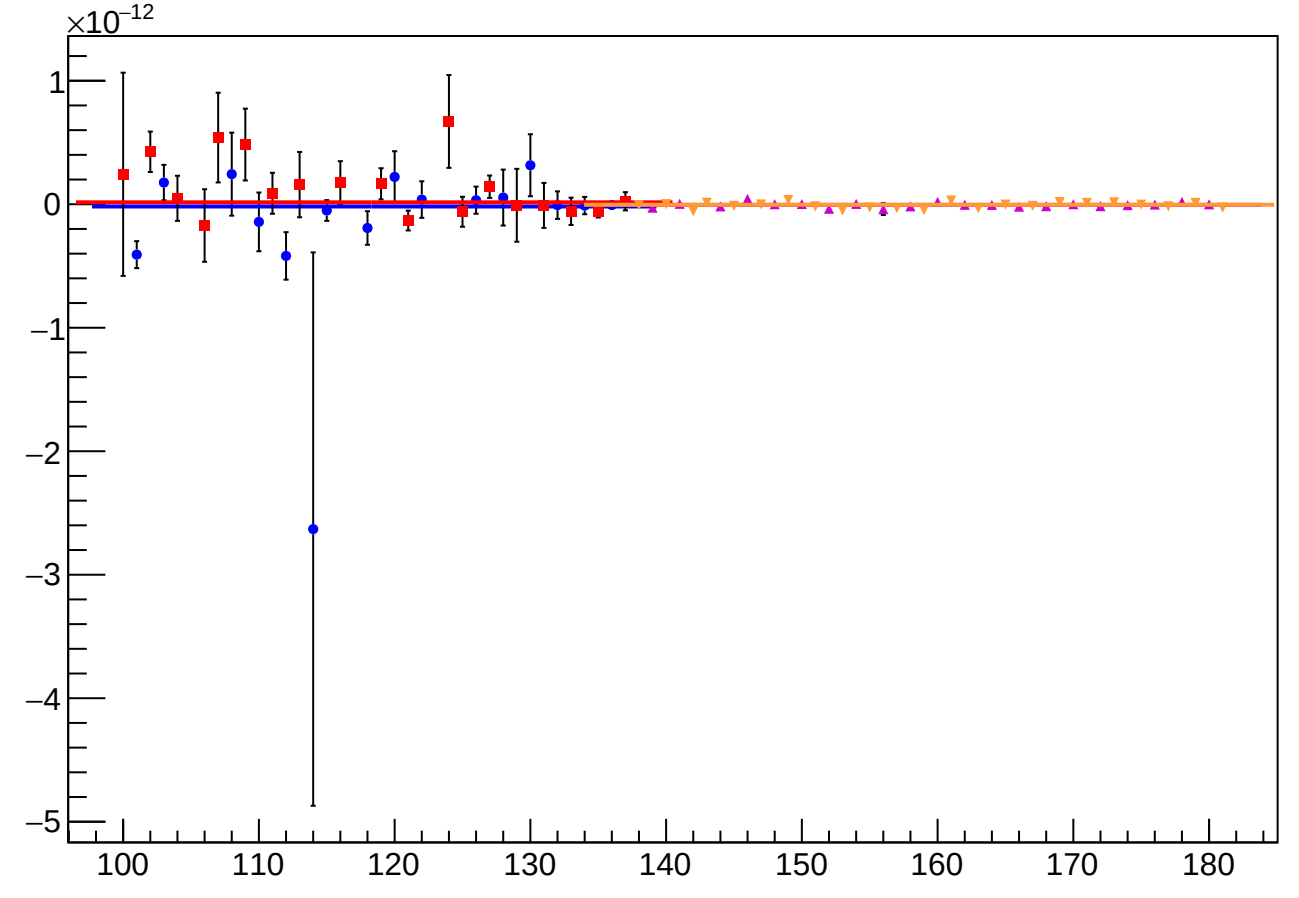
Left: 458.931+/-0.057 $\chi^2$/NDF: 5419004.3/43

Right: 1260.195+/-0.251 $\chi^2$/NDF: 4059839.9/34

In: 498.049+/-0.079 $\chi^2$/NDF:8945739.7/36

Out: 498.249+/-0.078 $\chi^2$/NDF:10229284.6/41

All: 498.151+/-0.056 $\chi^2$/NDF: 19175027.6/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 26.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.2/20

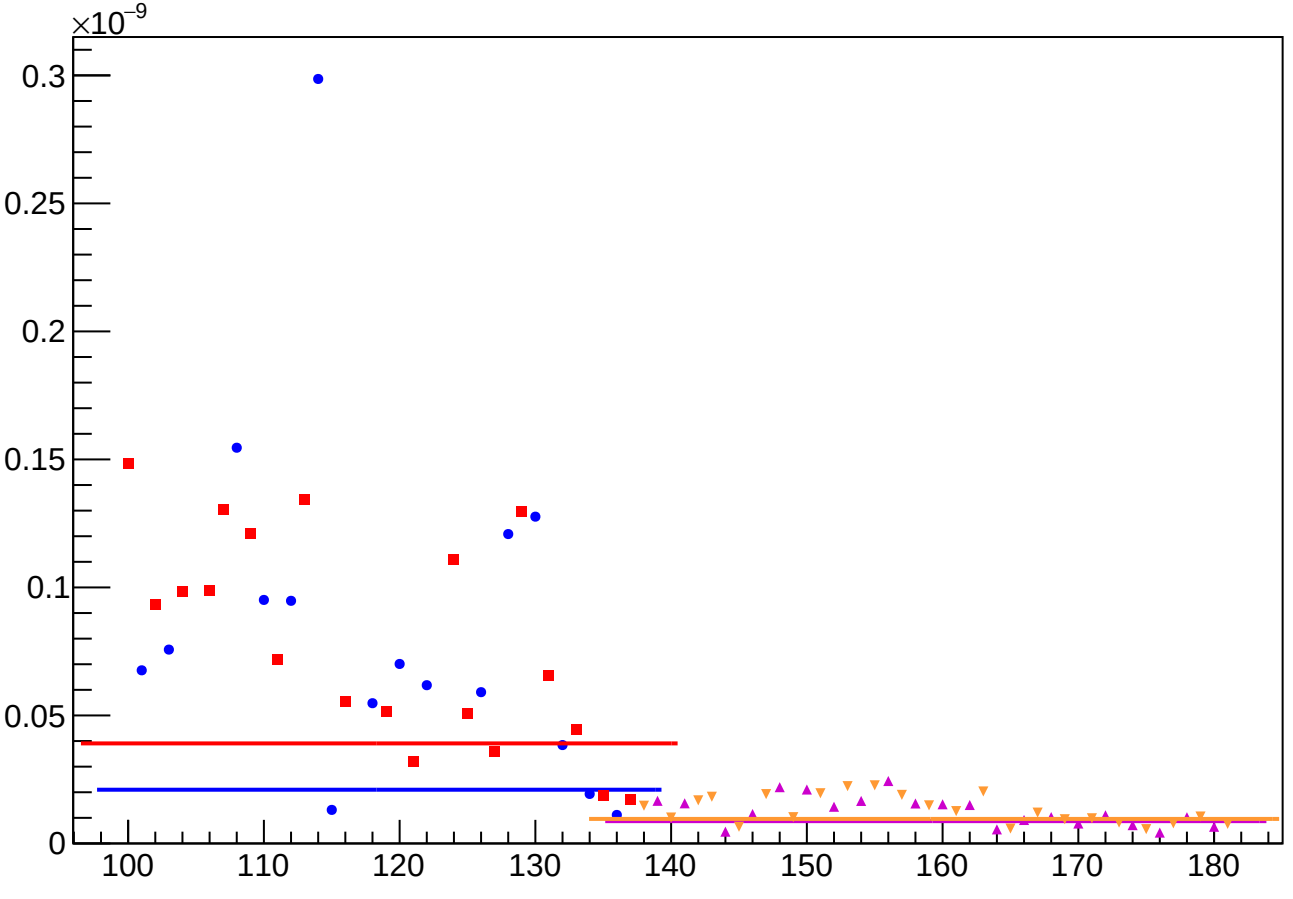
Left: -0.000+/-0.000 $\chi^2$/NDF: 36.4/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 53.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:42.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:47.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 90.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3380958.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2398609.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2073862.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2649866.7/20

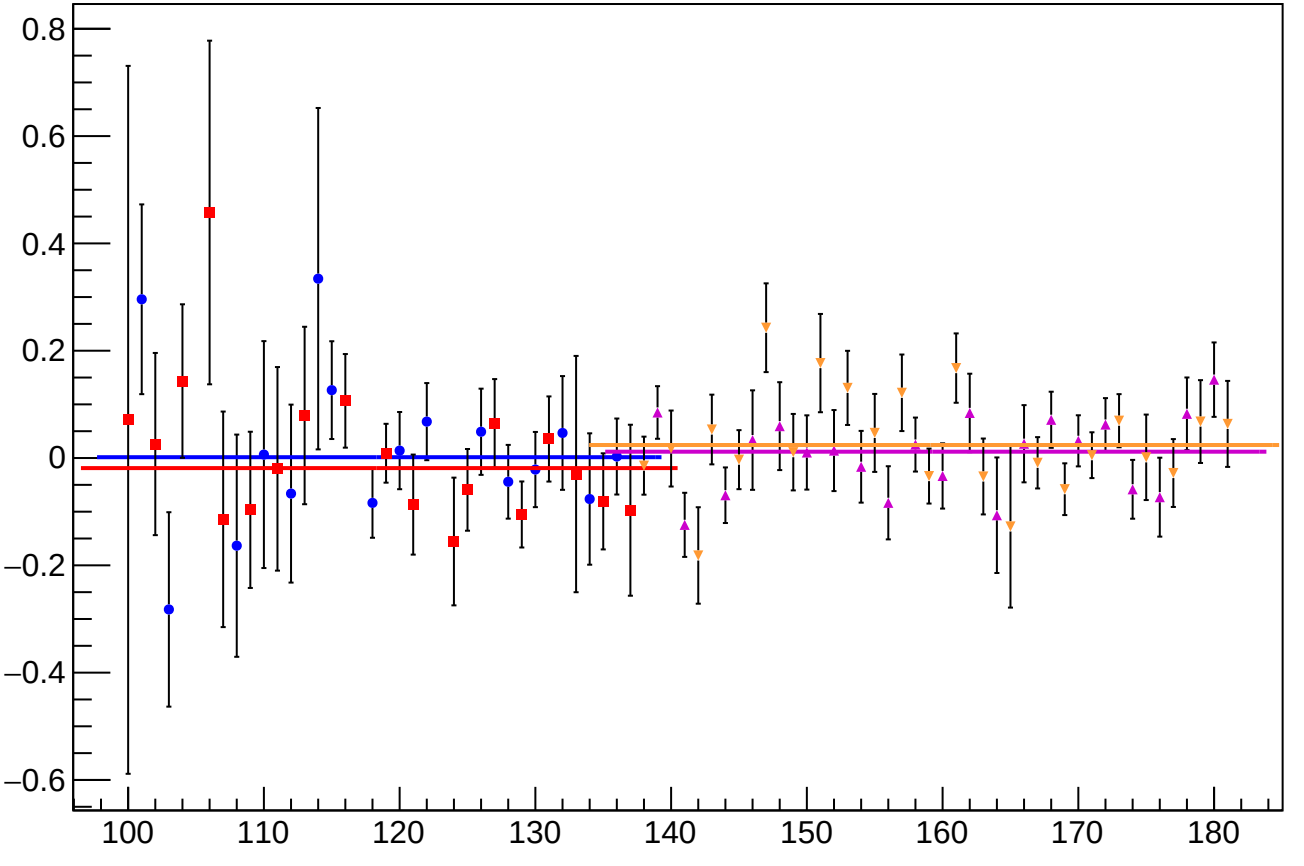
Left: 0.000+/-0.000 $\chi^2$/NDF: 5096132.3/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 6062420.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:6936218.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6713524.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 13702345.2/78




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: 0.024+/-0.013 $\chi^2$/NDF:34.0/22

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: 0.012+/-0.014 $\chi^2$/NDF:25.6/20

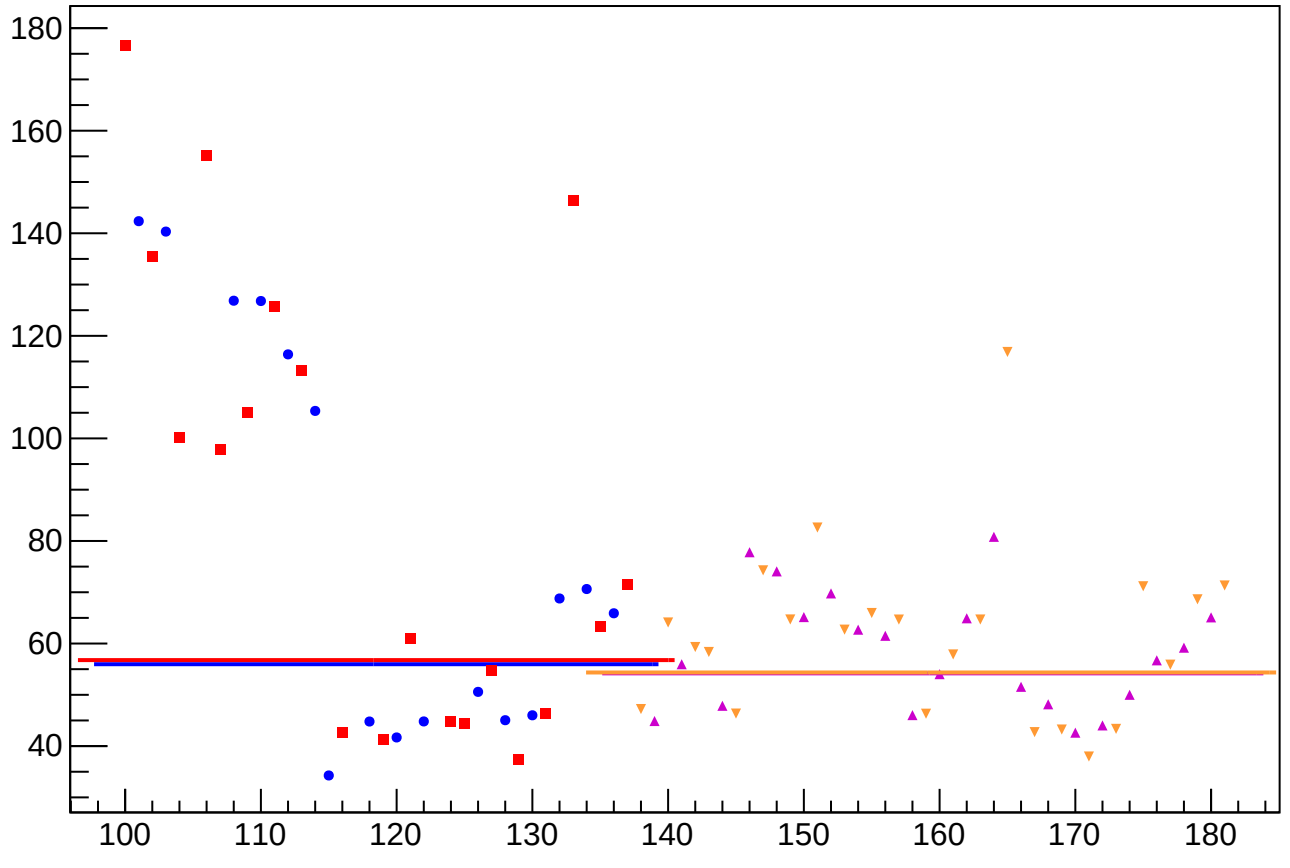
Left: 0.018+/-0.009 $\chi^2$/NDF: 60.0/43

Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: 0.009+/-0.012 $\chi^2$/NDF:38.8/36

Out: 0.014+/-0.012 $\chi^2$/NDF:49.6/41

All: 0.012+/-0.008 $\chi^2$/NDF: 88.5/78




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179829.3/15

Left Out: 54.356+/-0.009 $\chi^2$/NDF:1905225.5/22

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553223.5/18

Left In: 54.184+/-0.010 $\chi^2$/NDF:1066635.0/20

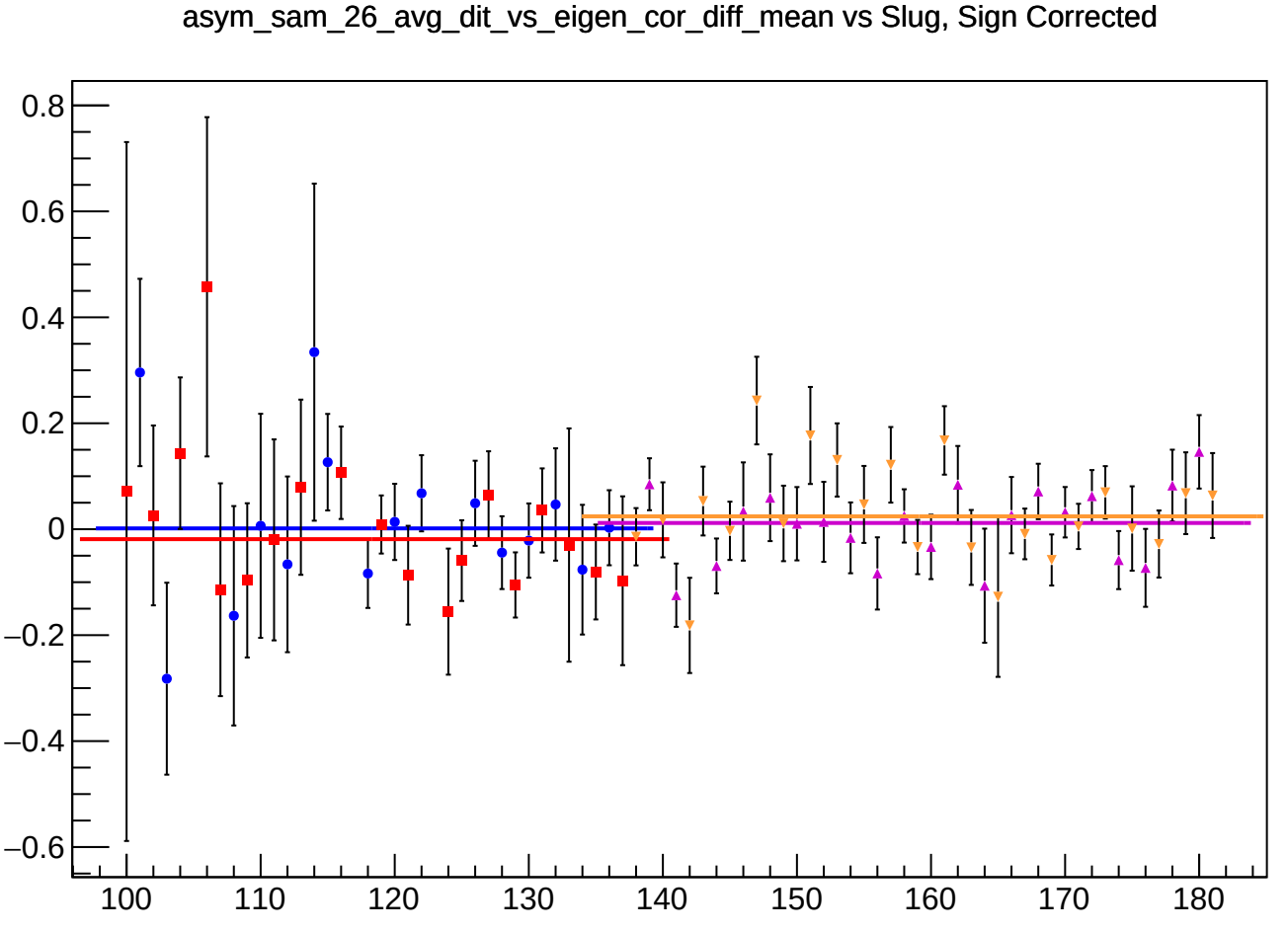
Left: 54.272+/-0.007 $\chi^2$/NDF: 2972026.3/43

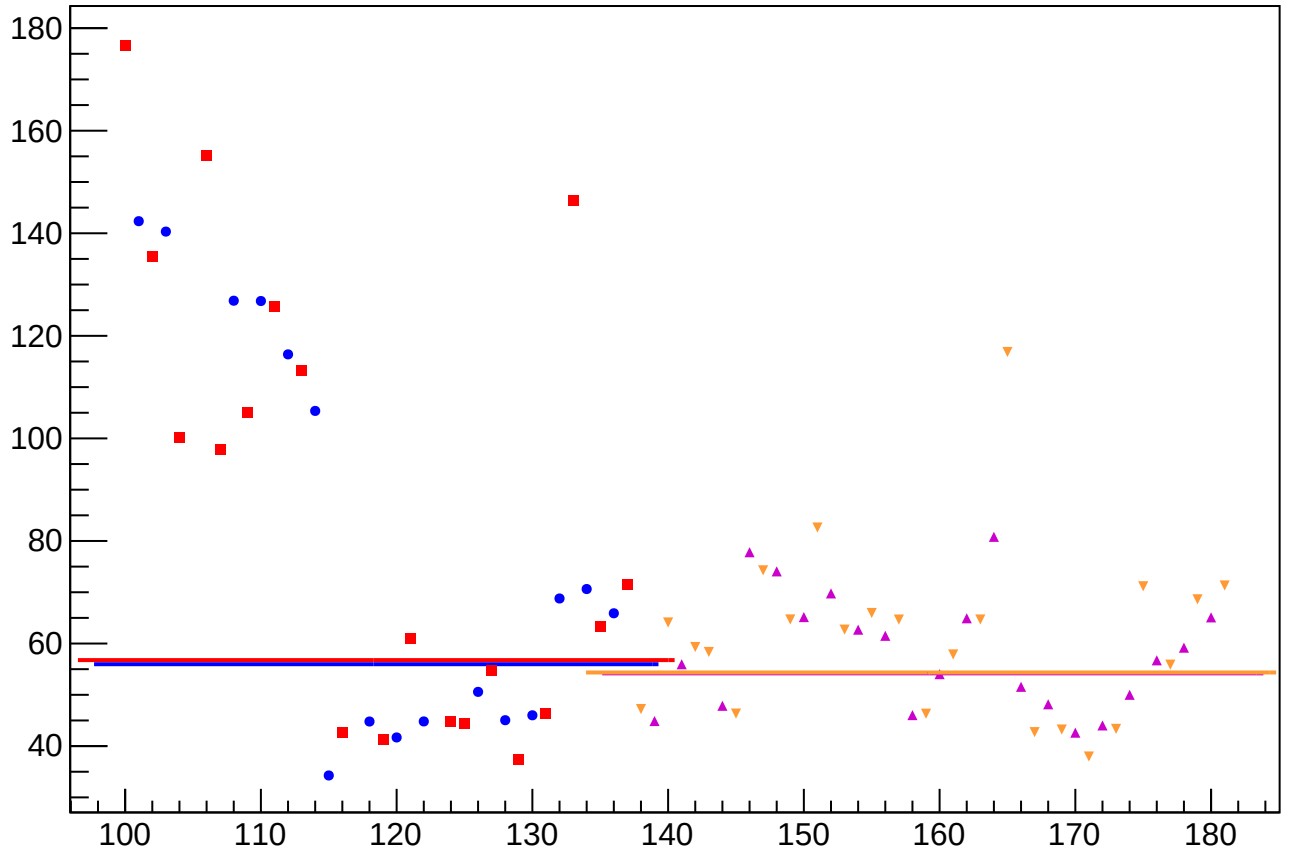
Right: 56.368+/-0.012 $\chi^2$/NDF: 4734221.0/34

In: 54.631+/-0.008 $\chi^2$/NDF:3255167.7/36

Out: 54.937+/-0.008 $\chi^2$/NDF:4474457.9/41

All: 54.786+/-0.006 $\chi^2$/NDF: 7730316.9/78


asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
100
110
120
130
140
150
160
170
180
Right In: 0.002+/-0.023 χ²/NDF: 13.1/15
Left Out: 0.024+/-0.013 χ²/NDF:34.0/22
Right Out: -0.019+/-0.024 χ²/NDF: 13.1/18
Left In: 0.012+/-0.014 χ²/NDF:25.6/20
Left: 0.018+/-0.009 χ²/NDF: 60.0/43
Right: -0.009+/-0.017 χ²/NDF: 26.6/34
In: 0.009+/-0.012 χ²/NDF:38.8/36
Out: 0.014+/-0.012 χ²/NDF:49.6/41
All: 0.012+/-0.008 χ²/NDF: 88.5/78




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179829.3/15

Left Out: 54.356+/-0.009 $\chi^2$/NDF:1905225.5/22

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553223.5/18

Left In: 54.184+/-0.010 $\chi^2$/NDF:1066635.0/20

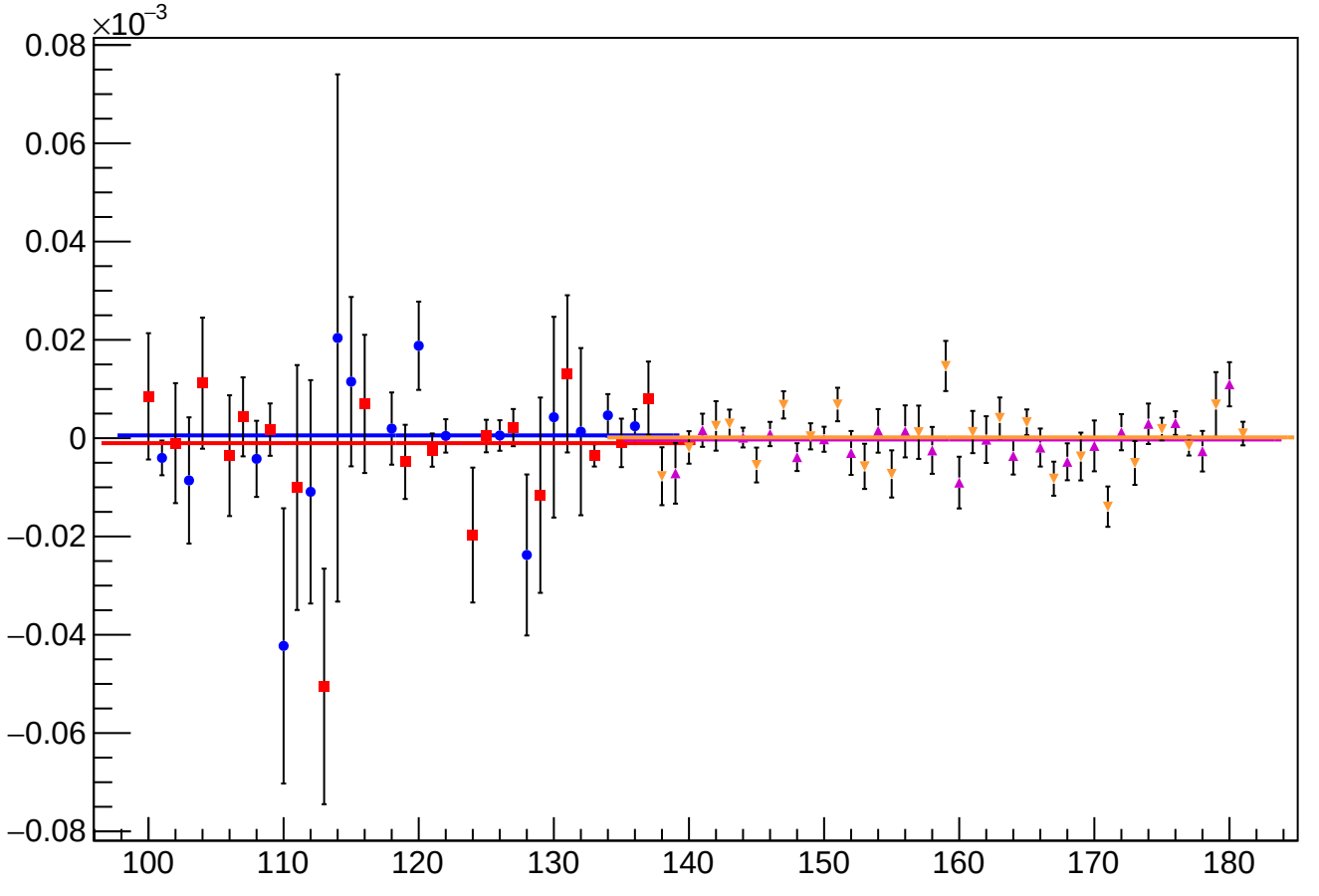
Left: 54.272+/-0.007 $\chi^2$/NDF: 2972026.3/43

Right: 56.368+/-0.012 $\chi^2$/NDF: 4734221.0/34

In: 54.631+/-0.008 $\chi^2$/NDF:3255167.7/36

Out: 54.937+/-0.008 $\chi^2$/NDF:4474457.9/41

All: 54.786+/-0.006 $\chi^2$/NDF: 7730316.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:52.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.8/20

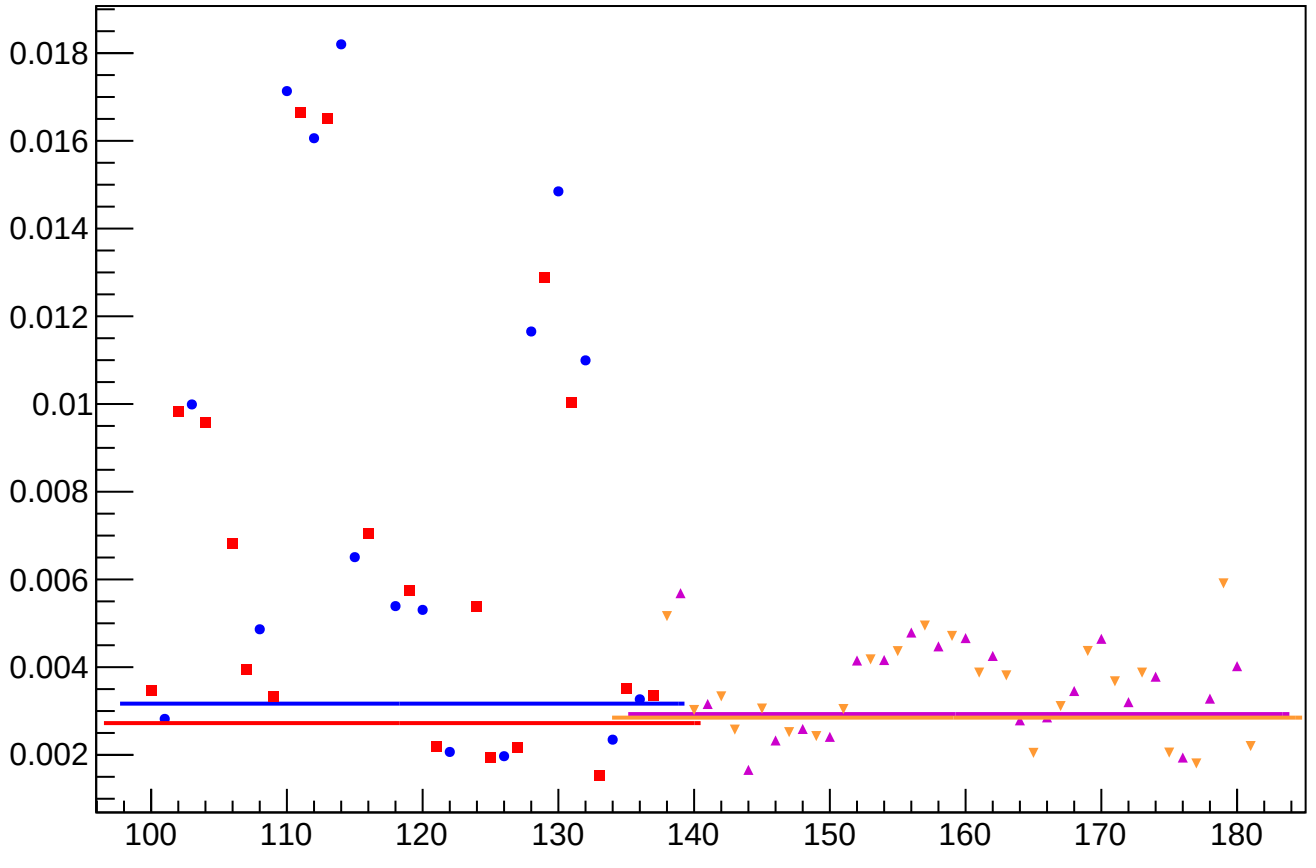
Left: -0.000+/-0.000 $\chi^2$/NDF: 71.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:32.3/36

Out: -0.000+/-0.000 $\chi^2$/NDF:66.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 98.8/78




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4545616.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3537394.7/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 5153213.6/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:3396673.1/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 6946224.7/43

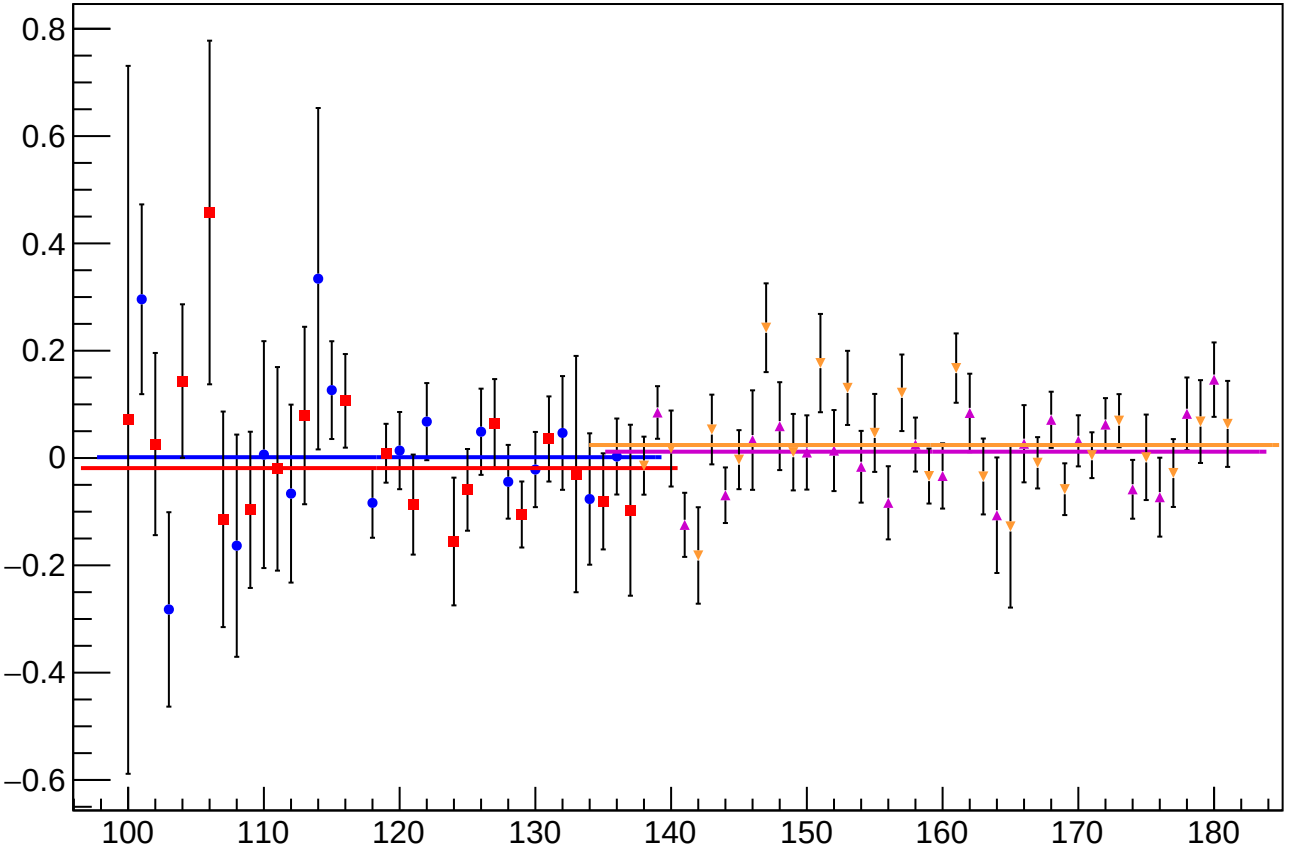
Right: 0.003+/-0.000 $\chi^2$/NDF: 9804761.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:7984653.0/36

Out: 0.003+/-0.000 $\chi^2$/NDF:8705282.2/41

All: 0.003+/-0.000 $\chi^2$/NDF: 16752681.1/78

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: 0.024+/-0.013 $\chi^2$/NDF:34.0/22

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: 0.012+/-0.014 $\chi^2$/NDF:25.6/20

Left: 0.018+/-0.009 $\chi^2$/NDF: 60.0/43

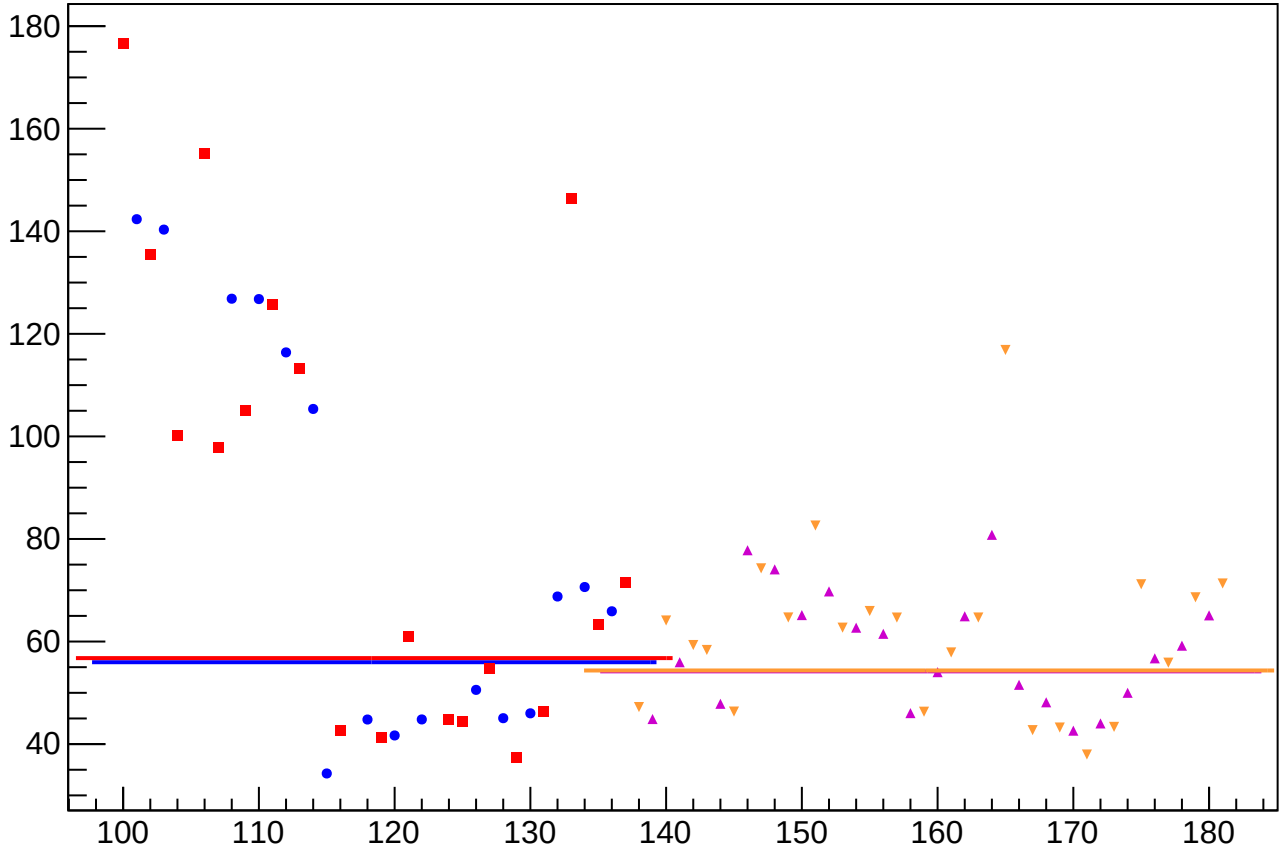
Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: 0.009+/-0.012 $\chi^2$/NDF:38.8/36

Out: 0.014+/-0.012 $\chi^2$/NDF:49.6/41

All: 0.012+/-0.008 $\chi^2$/NDF: 88.5/78

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179757.6/15

Left Out: 54.357+/-0.009 $\chi^2$/NDF:1905225.7/22

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553168.3/18

Left In: 54.184+/-0.010 $\chi^2$/NDF:1066607.6/20

Left: 54.272+/-0.007 $\chi^2$/NDF: 2971998.7/43

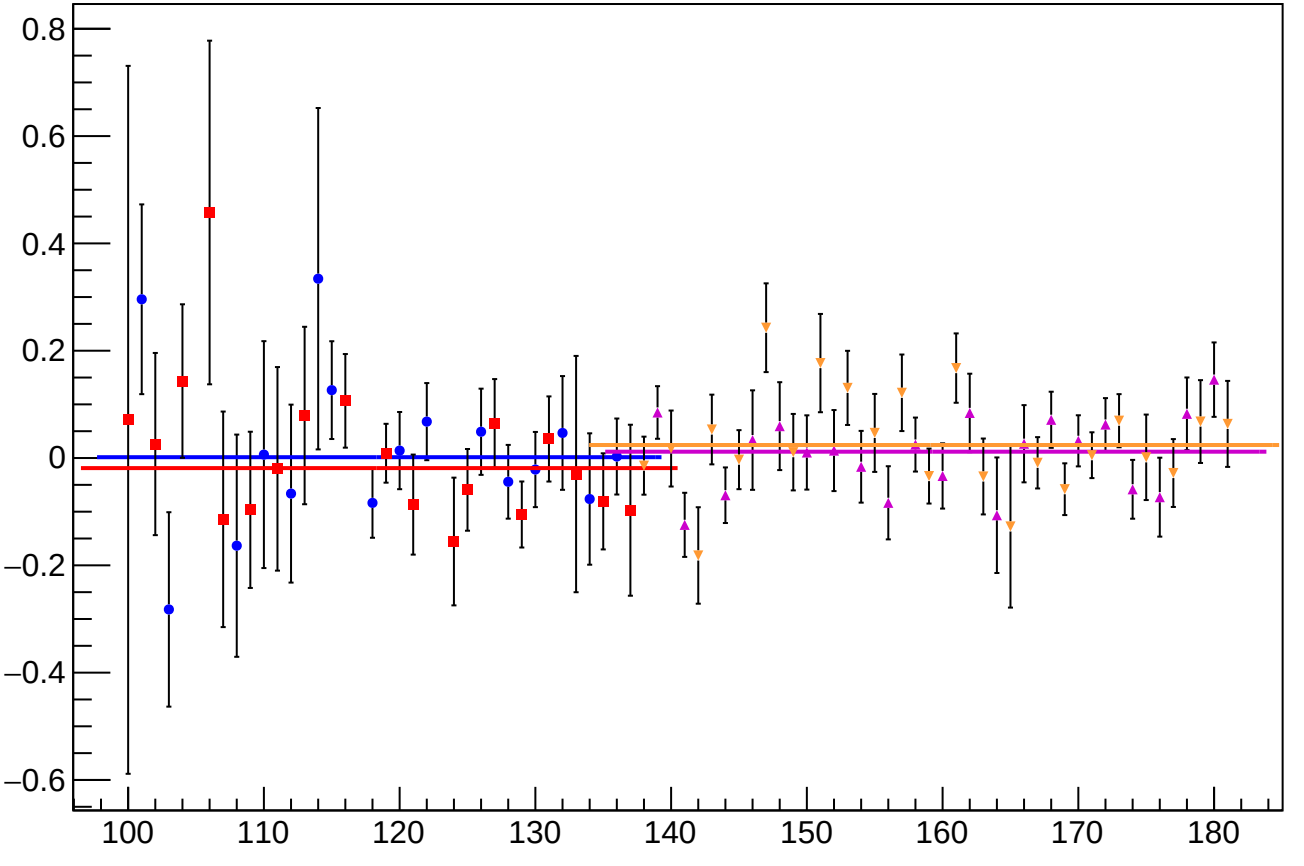
Right: 56.367+/-0.012 $\chi^2$/NDF: 4734093.5/34

In: 54.631+/-0.008 $\chi^2$/NDF:3255059.5/36

Out: 54.937+/-0.008 $\chi^2$/NDF:4474389.9/41

All: 54.787+/-0.006 $\chi^2$/NDF: 7730140.1/78

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: 0.024+/-0.013 $\chi^2$/NDF:34.0/22

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: 0.012+/-0.014 $\chi^2$/NDF:25.6/20

Left: 0.018+/-0.009 $\chi^2$/NDF: 60.0/43

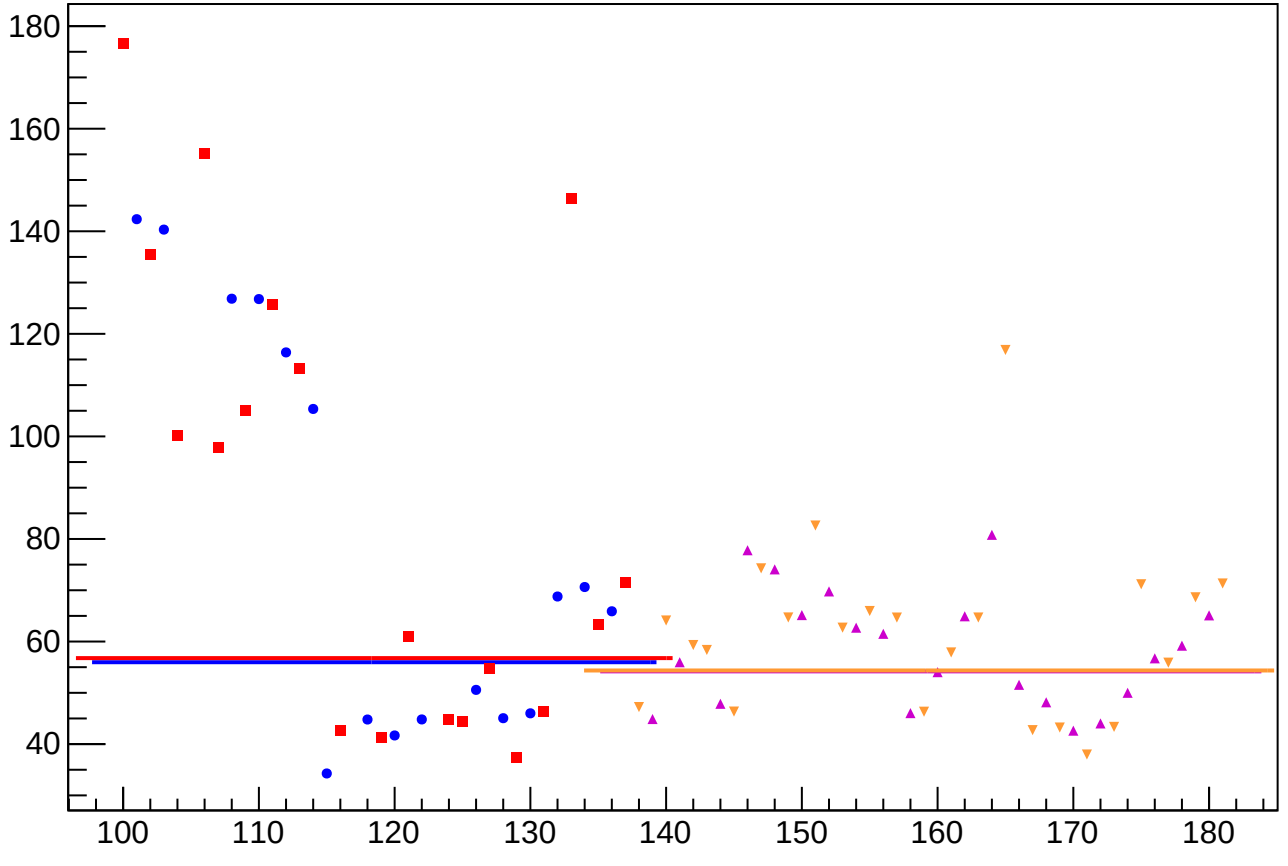
Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: 0.009+/-0.012 $\chi^2$/NDF:38.8/36

Out: 0.014+/-0.012 $\chi^2$/NDF:49.6/41

All: 0.012+/-0.008 $\chi^2$/NDF: 88.5/78

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179757.6/15

Left Out: 54.357+/-0.009 $\chi^2$/NDF:1905225.7/22

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553168.3/18

Left In: 54.184+/-0.010 $\chi^2$/NDF:1066607.6/20

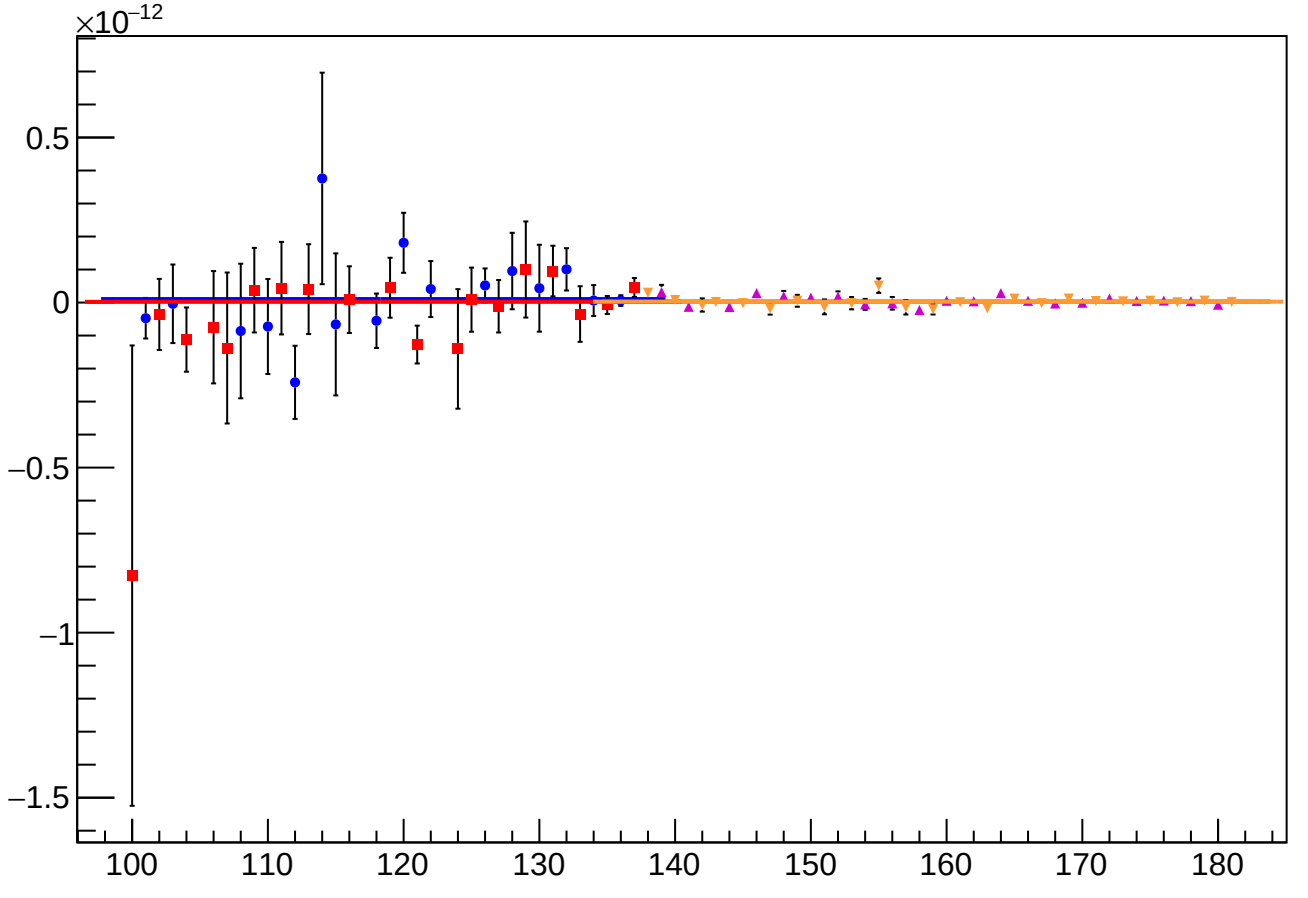
Left: 54.272+/-0.007 $\chi^2$/NDF: 2971998.7/43

Right: 56.367+/-0.012 $\chi^2$/NDF: 4734093.5/34

In: 54.631+/-0.008 $\chi^2$/NDF:3255059.5/36

Out: 54.937+/-0.008 $\chi^2$/NDF:4474389.9/41

All: 54.787+/-0.006 $\chi^2$/NDF: 7730140.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:19.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:32.4/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 52.4/43

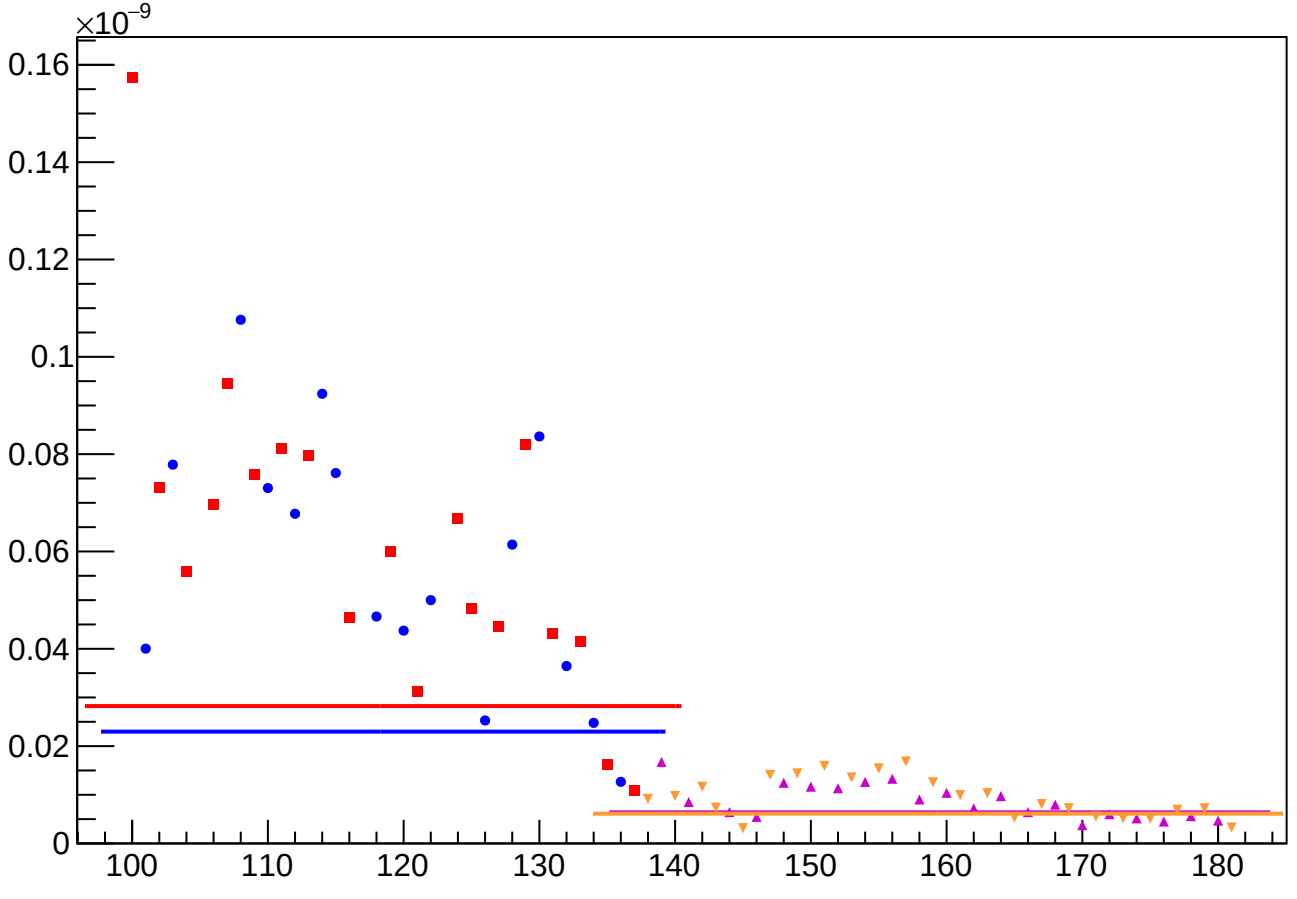
Right: 0.000+/-0.000 $\chi^2$/NDF: 30.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:48.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:34.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 82.7/78

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3731982.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5290670.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3820523.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3037278.4/20

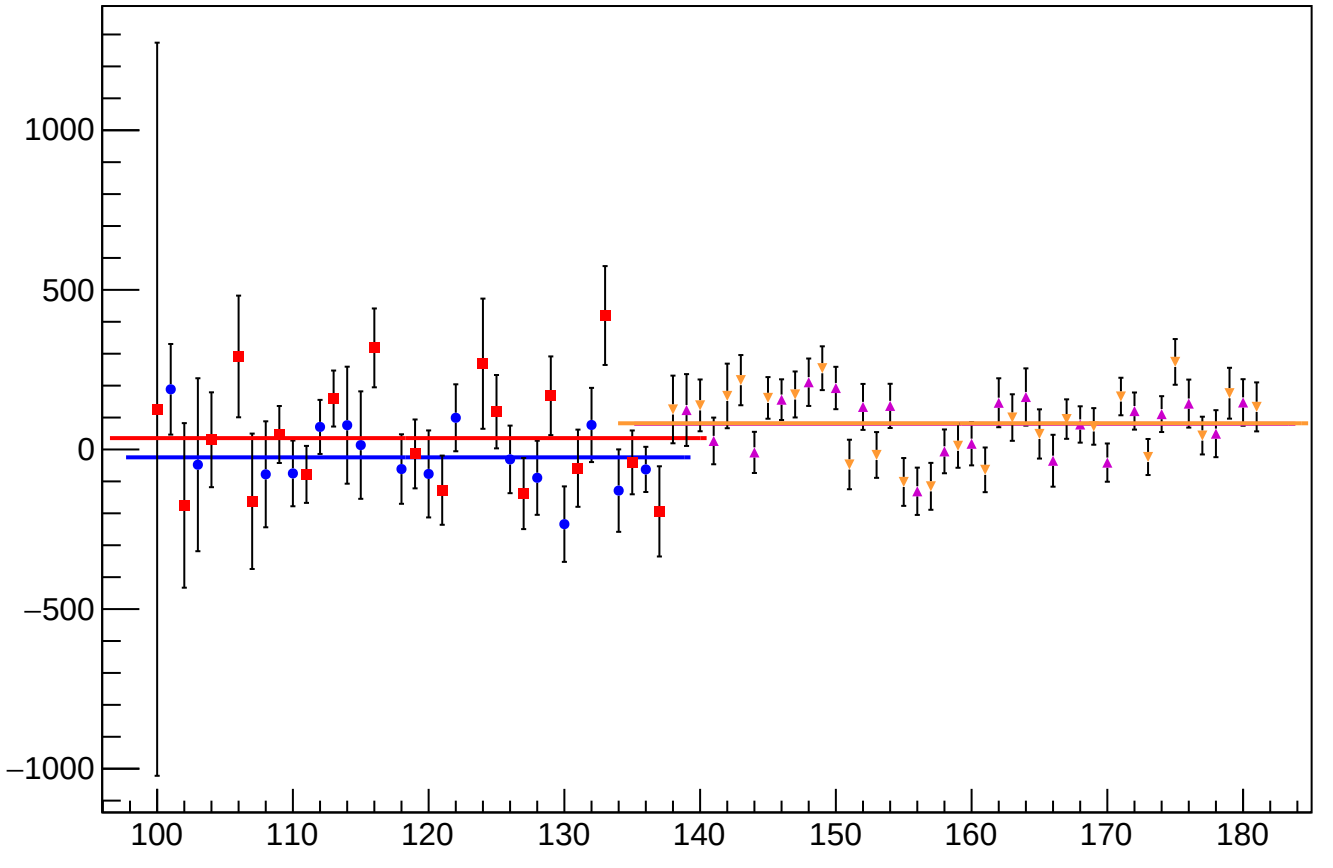
Left: 0.000+/-0.000 $\chi^2$/NDF: 8347431.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 7687404.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:9960965.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:13114680.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 23105016.5/78




Right In: -24.632+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 82.030+/-14.722 $\chi^2$/NDF:52.4/22

Right Out: 35.582+/-28.454 $\chi^2$/NDF: 30.1/18

Left In: 80.459+/-15.126 $\chi^2$/NDF:32.0/20

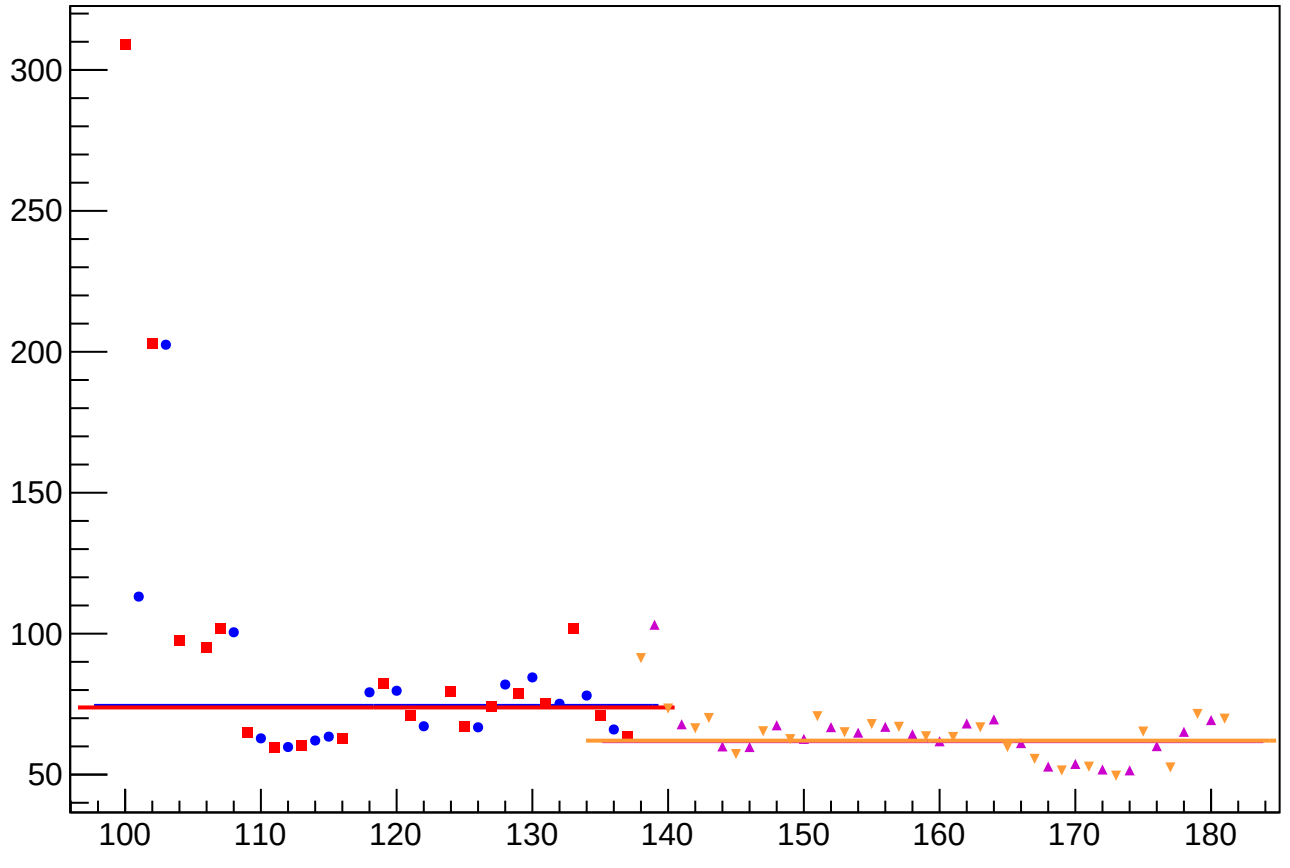
Left: 81.266+/-10.550 $\chi^2$/NDF: 84.3/43

Right: 5.956+/-20.280 $\chi^2$/NDF: 43.3/34

In: 57.877+/-13.403 $\chi^2$/NDF:53.4/36

Out: 72.222+/-13.075 $\chi^2$/NDF:84.5/41

All: 65.227+/-9.359 $\chi^2$/NDF: 138.5/78




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827583.1/15

Left Out: 62.043+/-0.010 $\chi^2$/NDF:634098.0/22

Right Out: 73.815+/-0.020 $\chi^2$/NDF: 931949.0/18

Left In: 61.863+/-0.011 $\chi^2$/NDF:592725.9/20

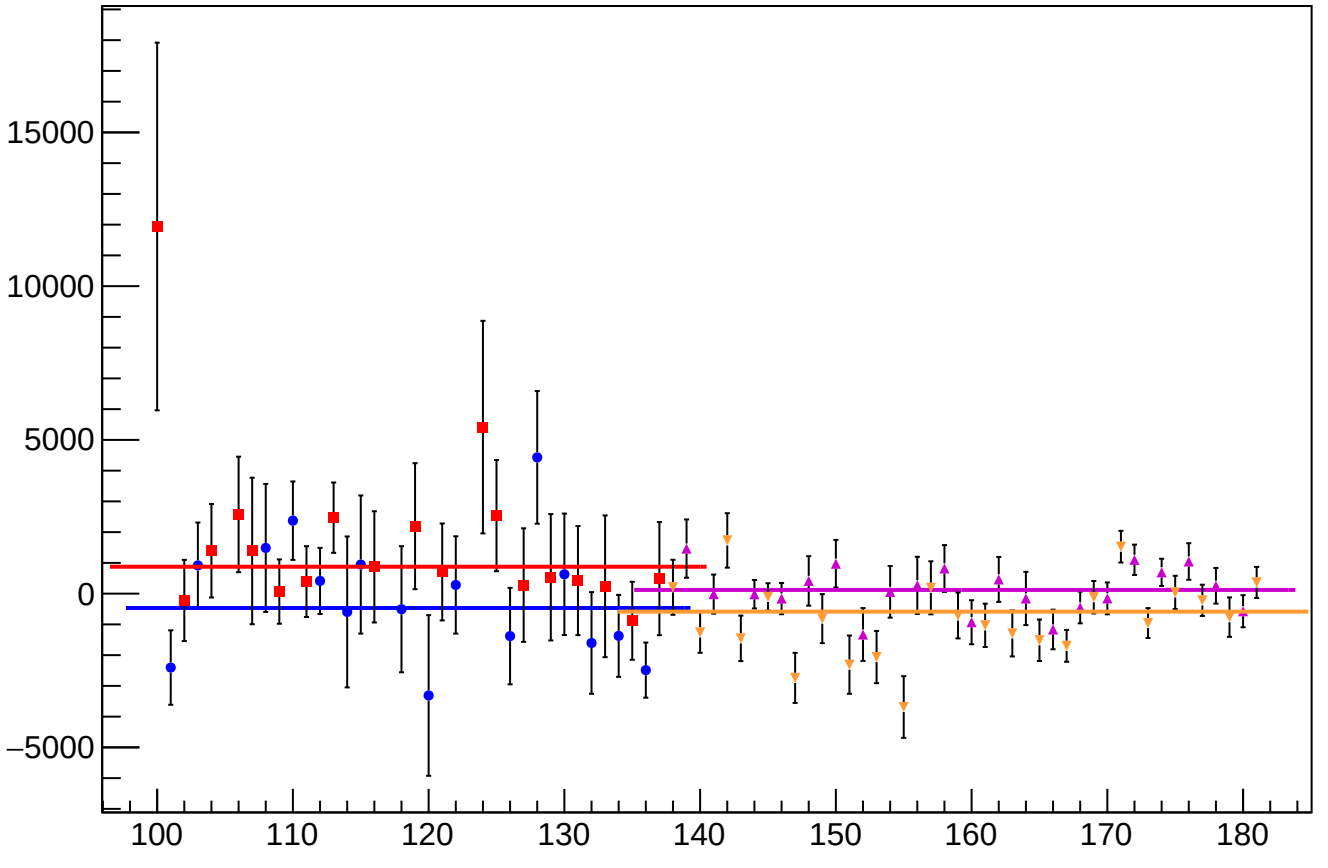
Left: 61.956+/-0.007 $\chi^2$/NDF: 1226969.2/43

Right: 74.088+/-0.014 $\chi^2$/NDF: 1759905.2/34

In: 64.551+/-0.009 $\chi^2$/NDF:1714073.2/36

Out: 64.529+/-0.009 $\chi^2$/NDF:1836067.9/41

All: 64.539+/-0.007 $\chi^2$/NDF: 3550143.8/78




Right In: -466.524+/-375.030 $\chi^2$/NDF: 23.7/15

Left Out: -585.198+/-133.198 $\chi^2$/NDF:66.5/22

Right Out: 875.351+/-372.239 $\chi^2$/NDF: 13.1/18

Left In: 120.954+/-135.167 $\chi^2$/NDF:25.3/20

Left: -237.304+/-94.874 $\chi^2$/NDF: 105.7/43

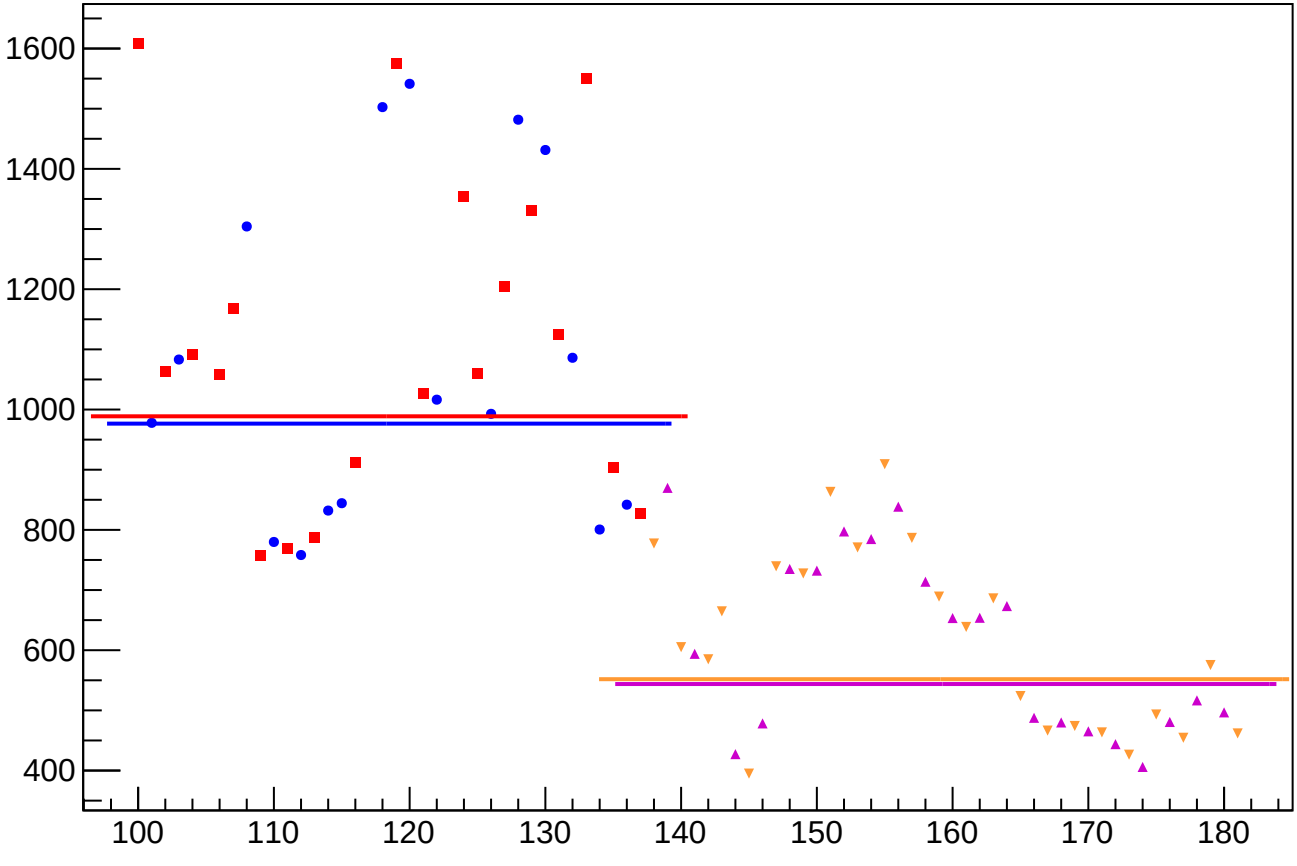
Right: 209.426+/-264.194 $\chi^2$/NDF: 43.2/34

In: 53.414+/-127.160 $\chi^2$/NDF:51.2/36

Out: -419.415+/-125.411 $\chi^2$/NDF:93.2/41

All: -186.275+/-89.291 $\chi^2$/NDF: 151.4/78

asym_sam_37_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 976.583+/-0.265 $\chi^2$/NDF: 736605.1/15

Left Out: 551.833+/-0.094 $\chi^2$/NDF:2012802.4/22

Right Out: 988.763+/-0.263 $\chi^2$/NDF: 715703.4/18

Left In: 543.795+/-0.096 $\chi^2$/NDF:1829651.5/20

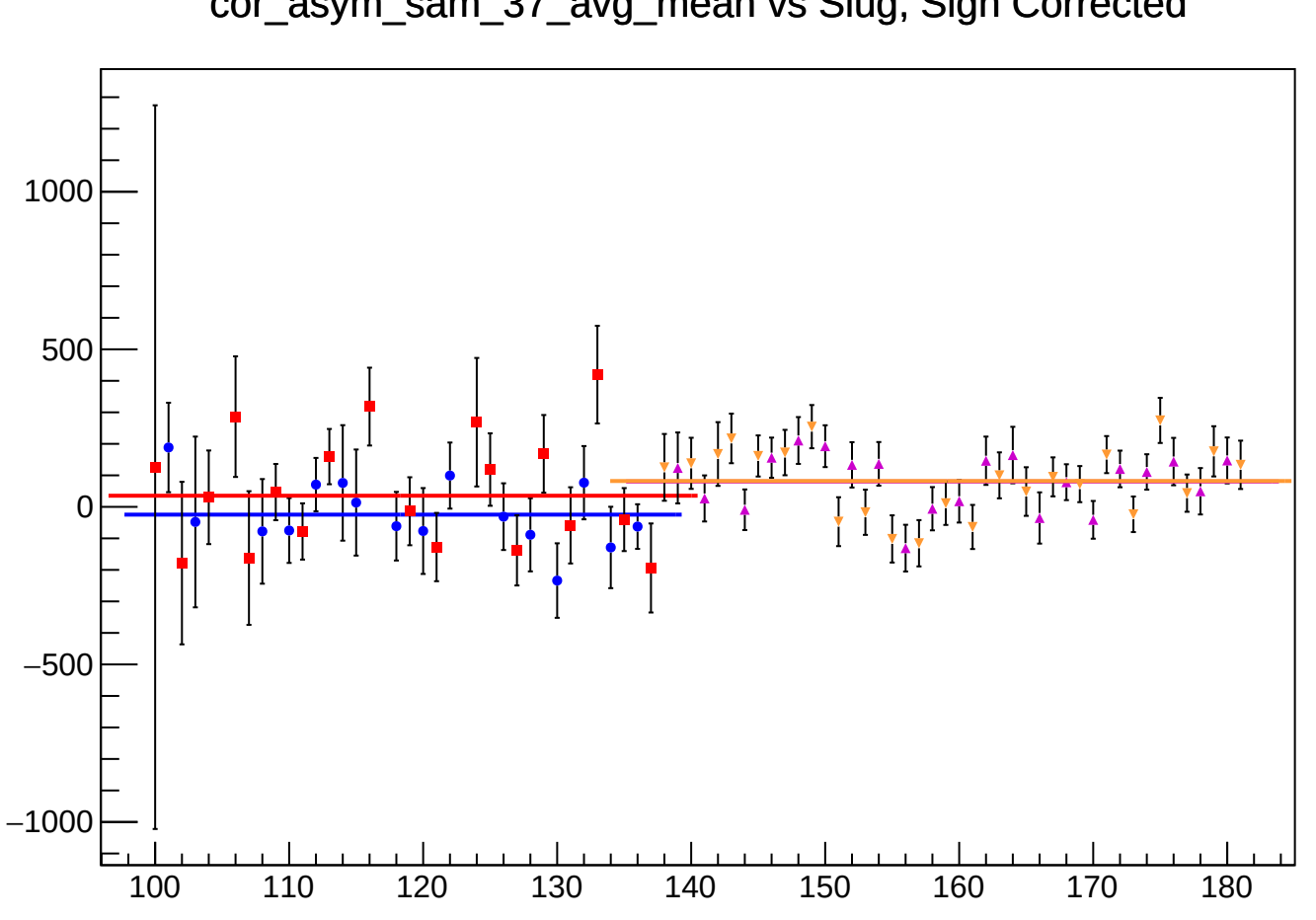
Left: 547.873+/-0.067 $\chi^2$/NDF: 3846042.2/43

Right: 982.718+/-0.187 $\chi^2$/NDF: 1453371.3/34

In: 593.550+/-0.090 $\chi^2$/NDF:4923520.1/36

Out: 601.428+/-0.089 $\chi^2$/NDF:5171297.2/41

All: 597.544+/-0.063 $\chi^2$/NDF: 10098708.0/78




Right In: -24.640+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 82.032+/-14.722 $\chi^2$/NDF:52.4/22

Right Out: 35.383+/-28.457 $\chi^2$/NDF: 30.0/18

Left In: 80.458+/-15.126 $\chi^2$/NDF:32.0/20

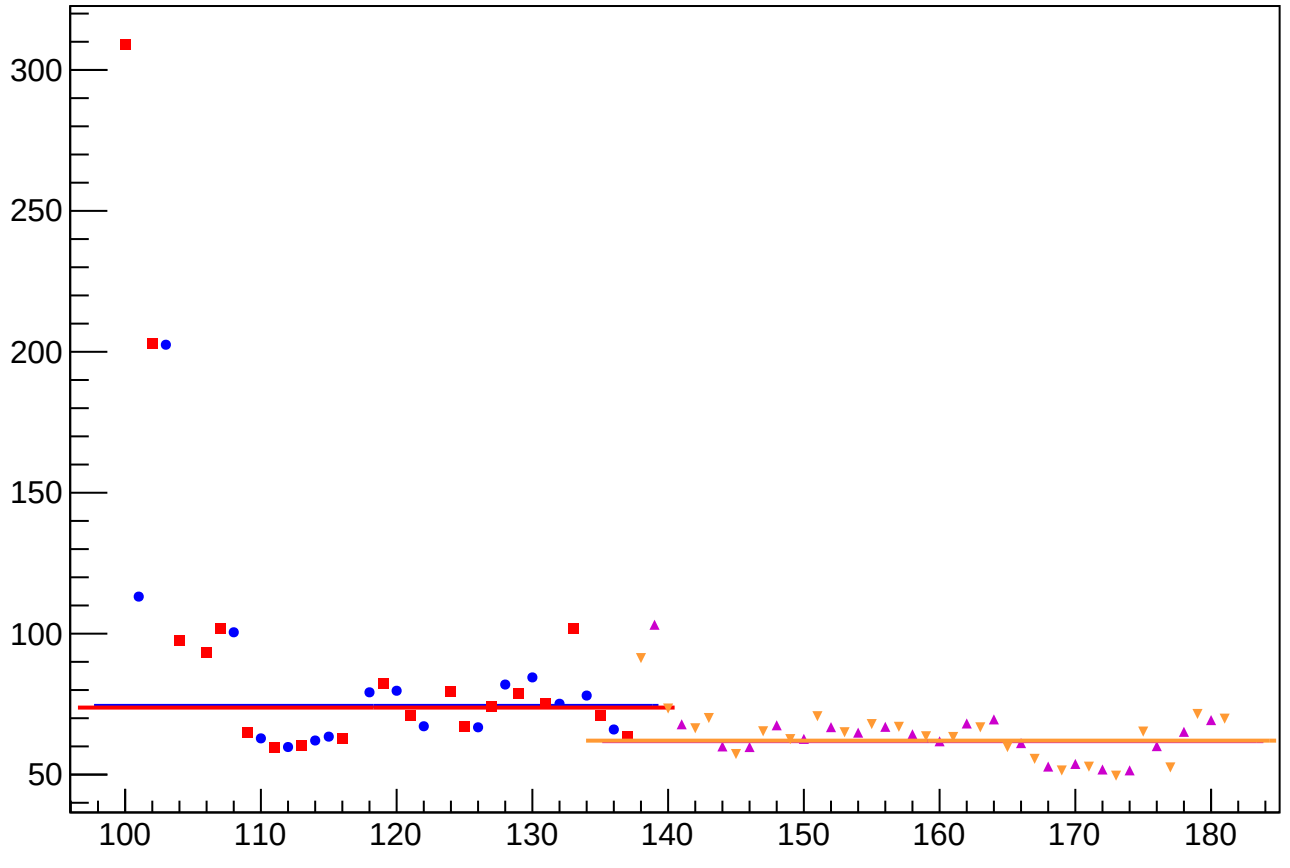
Left: 81.267+/-10.550 $\chi^2$/NDF: 84.3/43

Right: 5.848+/-20.281 $\chi^2$/NDF: 43.2/34

In: 57.874+/-13.403 $\chi^2$/NDF:53.4/36

Out: 72.184+/-13.075 $\chi^2$/NDF:84.5/41

All: 65.206+/-9.359 $\chi^2$/NDF: 138.4/78




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827585.2/15

Left Out: 62.043+/-0.010 $\chi^2$/NDF:634098.0/22

Right Out: 73.773+/-0.020 $\chi^2$/NDF: 928163.8/18

Left In: 61.863+/-0.011 $\chi^2$/NDF:592725.9/20

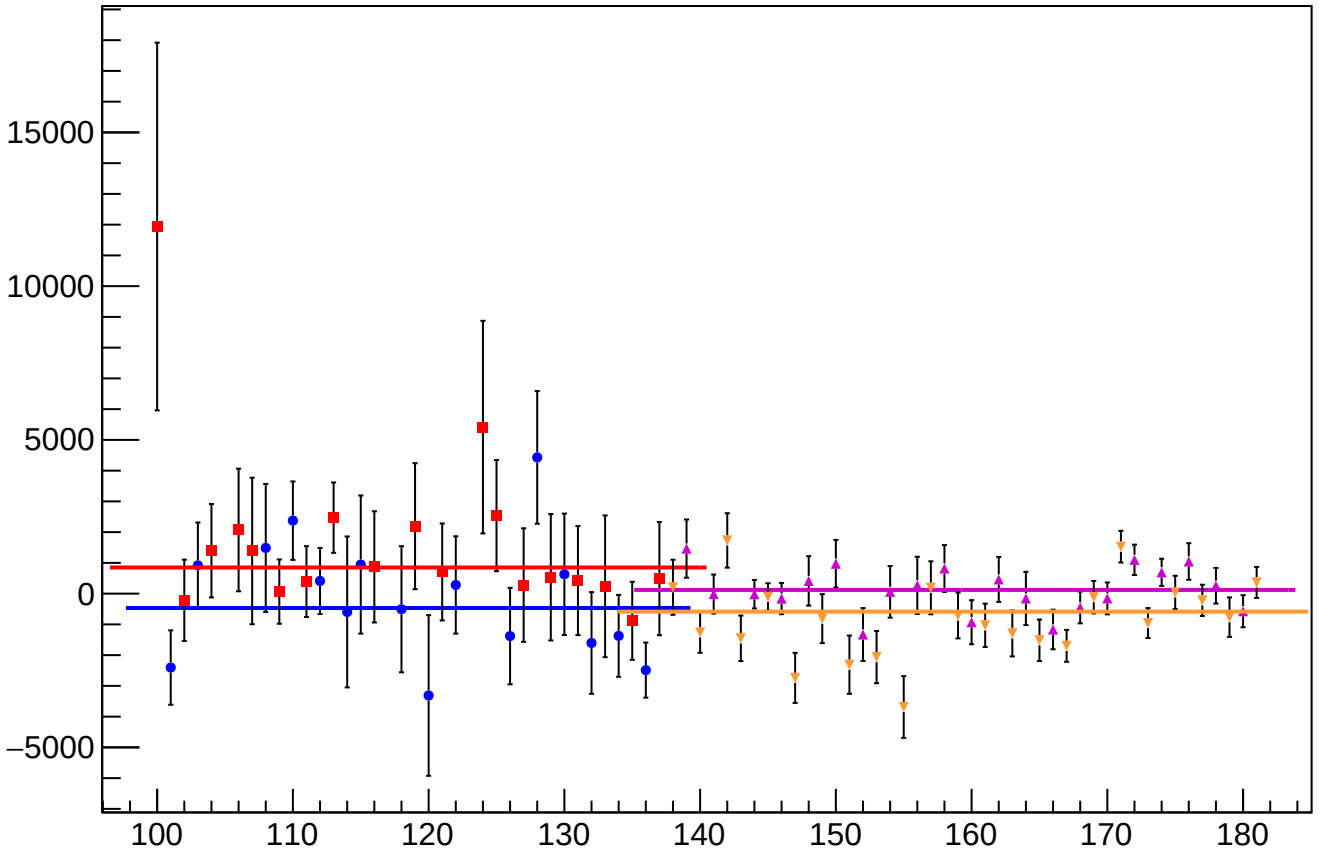
Left: 61.956+/-0.007 $\chi^2$/NDF: 1226969.2/43

Right: 74.066+/-0.014 $\chi^2$/NDF: 1756180.6/34

In: 64.551+/-0.009 $\chi^2$/NDF:1714075.1/36

Out: 64.520+/-0.009 $\chi^2$/NDF:1830322.9/41

All: 64.535+/-0.007 $\chi^2$/NDF: 3544403.4/78




Right In: -466.511+/-375.033 $\chi^2$/NDF: 23.7/15

Left Out: -585.197+/-133.198 $\chi^2$/NDF:66.5/22

Right Out: 850.757+/-373.092 $\chi^2$/NDF: 12.6/18

Left In: 120.952+/-135.167 $\chi^2$/NDF:25.3/20

Left: -237.304+/-94.874 $\chi^2$/NDF: 105.7/43

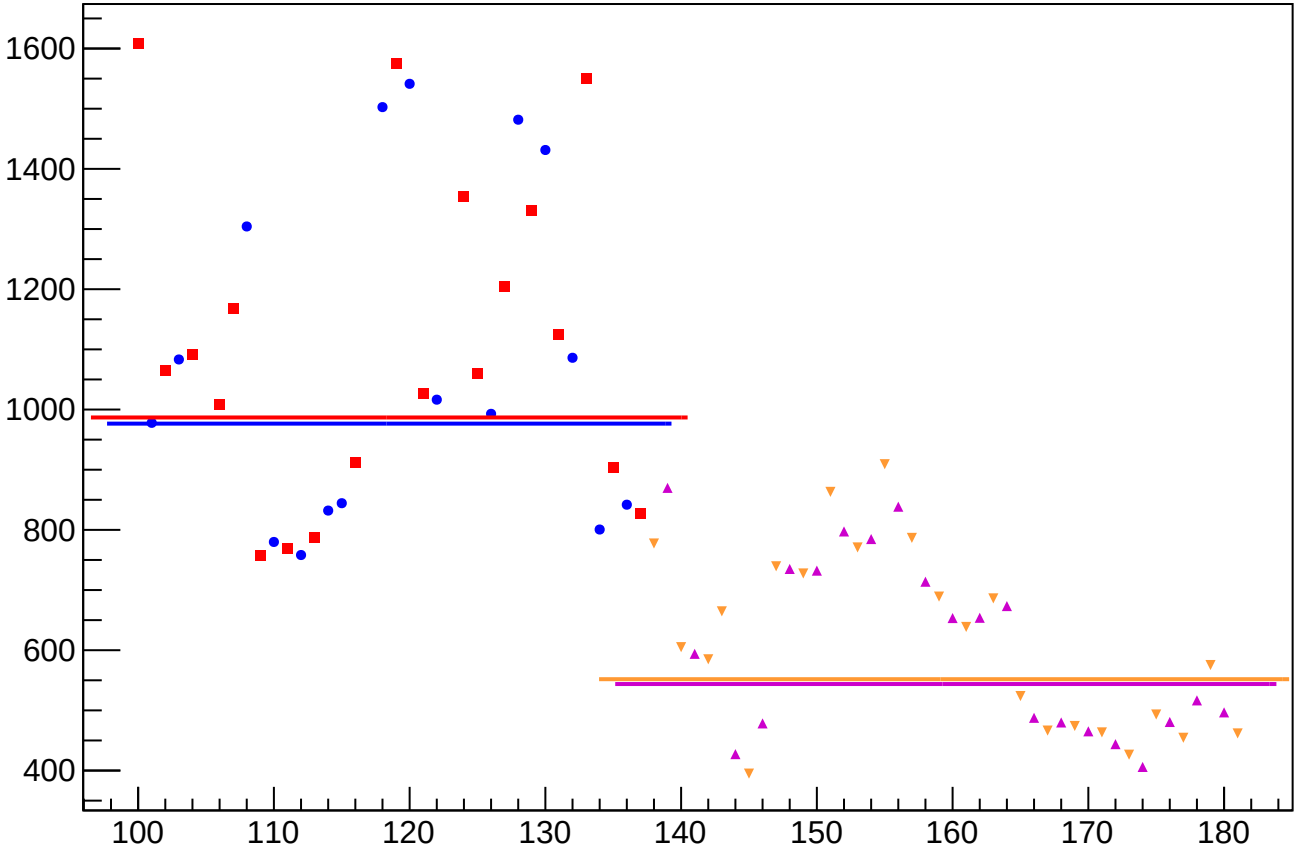
Right: 195.541+/-264.500 $\chi^2$/NDF: 42.5/34

In: 53.415+/-127.160 $\chi^2$/NDF:51.2/36

Out: -422.865+/-125.443 $\chi^2$/NDF:92.2/41

All: -187.962+/-89.303 $\chi^2$/NDF: 150.5/78

asym_sam_37_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 976.589+/-0.265 $\chi^2$/NDF: 736628.5/15

Left Out: 551.832+/-0.094 $\chi^2$/NDF:2012801.4/22

Right Out: 986.823+/-0.264 $\chi^2$/NDF: 713316.0/18

Left In: 543.795+/-0.096 $\chi^2$/NDF:1829651.7/20

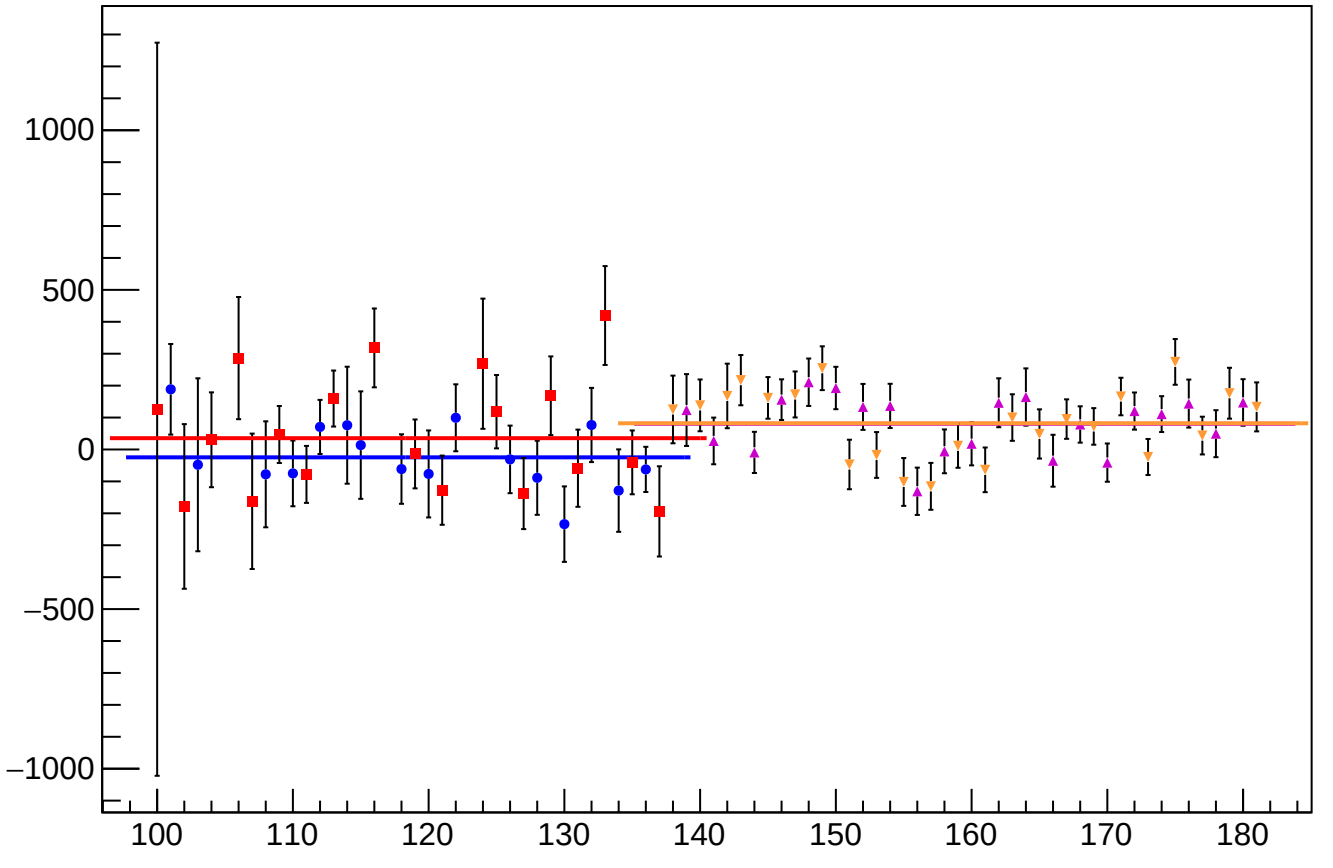
Left: 547.873+/-0.067 $\chi^2$/NDF: 3846041.1/43

Right: 981.733+/-0.187 $\chi^2$/NDF: 1450693.2/34

In: 593.551+/-0.090 $\chi^2$/NDF:4923577.4/36

Out: 601.007+/-0.089 $\chi^2$/NDF:5137456.6/41

All: 597.330+/-0.063 $\chi^2$/NDF: 10064519.4/78




Right In: -24.640+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 82.032+/-14.722 $\chi^2$/NDF:52.4/22

Right Out: 35.383+/-28.457 $\chi^2$/NDF: 30.0/18

Left In: 80.458+/-15.126 $\chi^2$/NDF:32.0/20

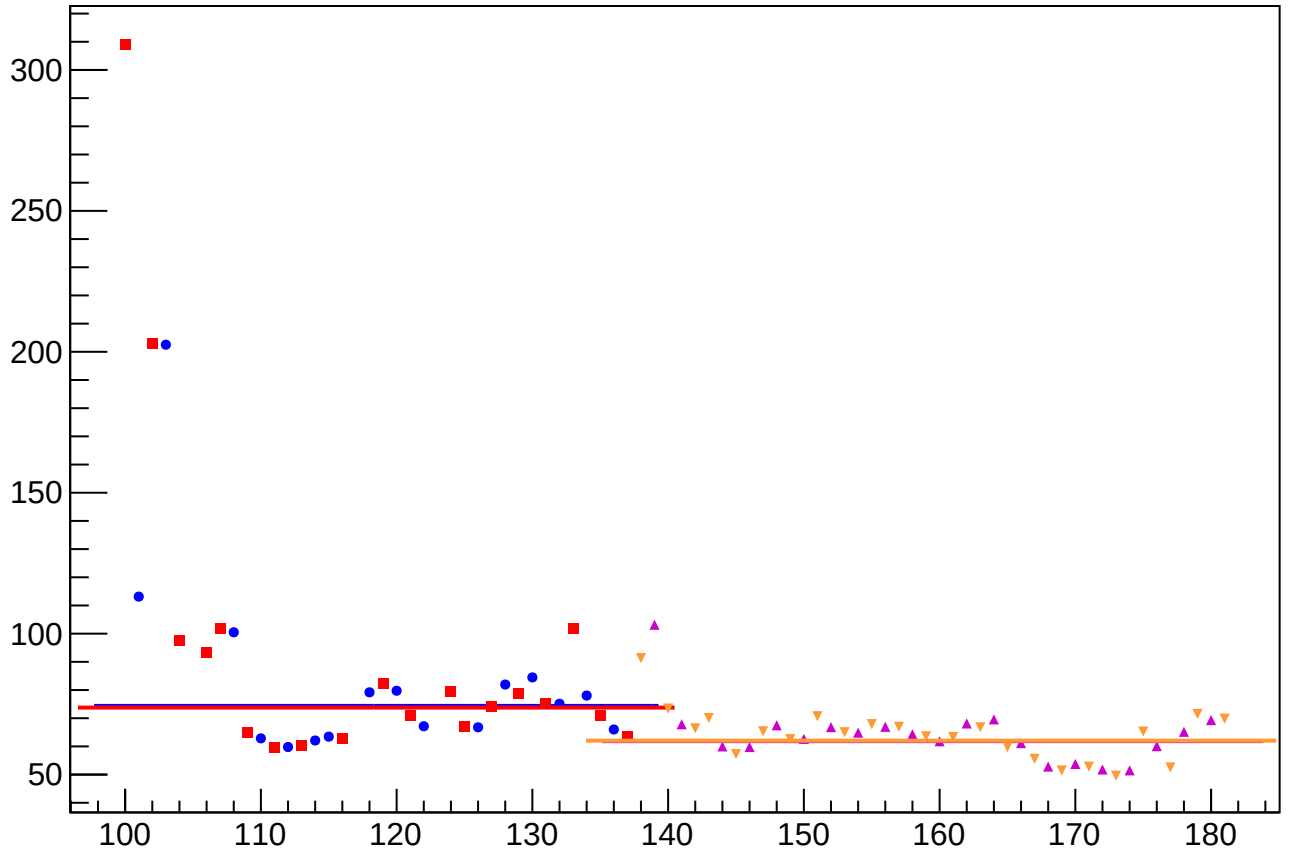
Left: 81.267+/-10.550 $\chi^2$/NDF: 84.3/43

Right: 5.848+/-20.281 $\chi^2$/NDF: 43.2/34

In: 57.874+/-13.403 $\chi^2$/NDF:53.4/36

Out: 72.184+/-13.075 $\chi^2$/NDF:84.5/41

All: 65.206+/-9.359 $\chi^2$/NDF: 138.4/78




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827585.2/15

Left Out: 62.043+/-0.010 $\chi^2$/NDF:634098.0/22

Right Out: 73.773+/-0.020 $\chi^2$/NDF: 928163.8/18

Left In: 61.863+/-0.011 $\chi^2$/NDF:592725.9/20

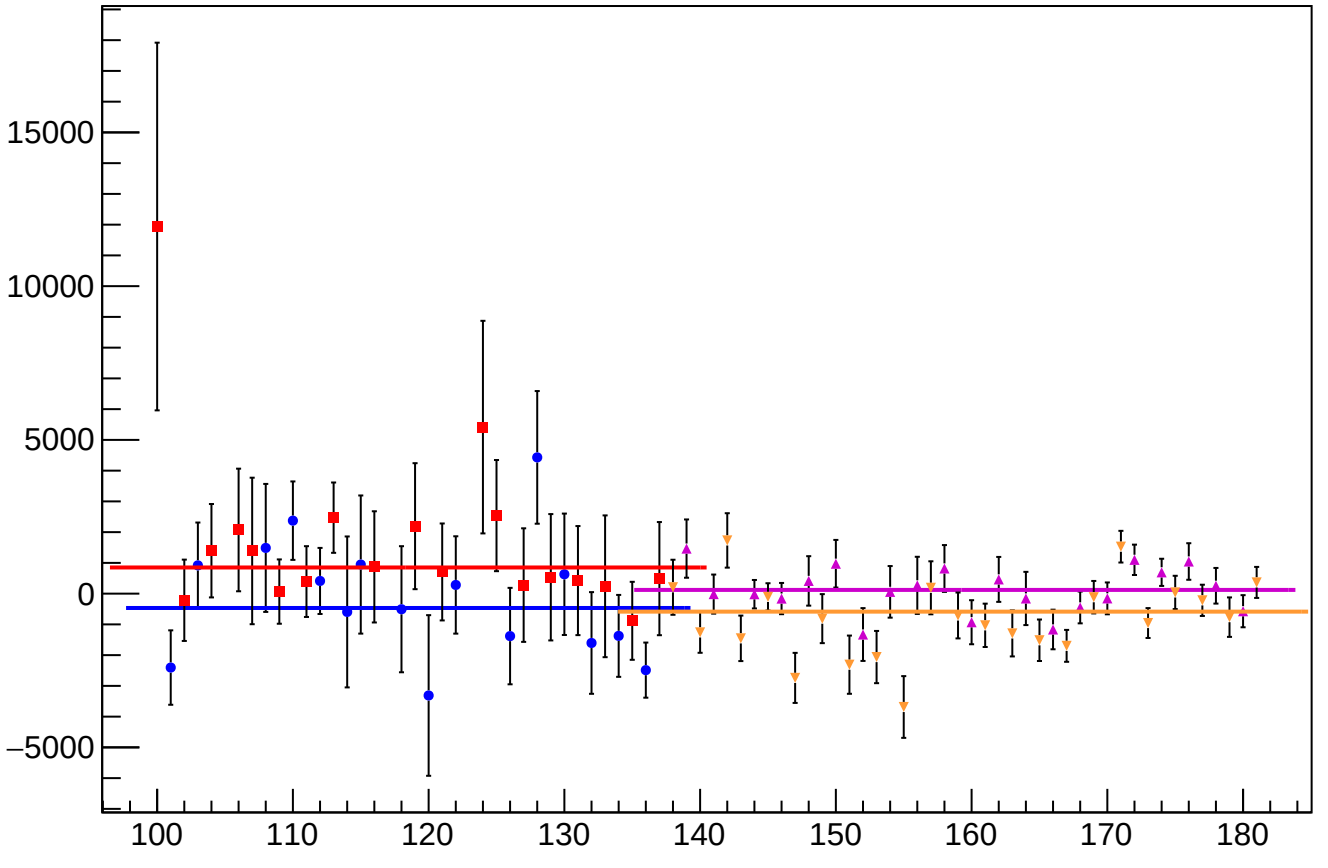
Left: 61.956+/-0.007 $\chi^2$/NDF: 1226969.2/43

Right: 74.066+/-0.014 $\chi^2$/NDF: 1756180.6/34

In: 64.551+/-0.009 $\chi^2$/NDF:1714075.1/36

Out: 64.520+/-0.009 $\chi^2$/NDF:1830322.9/41

All: 64.535+/-0.007 $\chi^2$/NDF: 3544403.4/78




Right In: -466.511+/-375.033 $\chi^2$/NDF: 23.7/15

Left Out: -585.197+/-133.198 $\chi^2$/NDF:66.5/22

Right Out: 850.757+/-373.092 $\chi^2$/NDF: 12.6/18

Left In: 120.952+/-135.167 $\chi^2$/NDF:25.3/20

Left: -237.304+/-94.874 $\chi^2$/NDF: 105.7/43

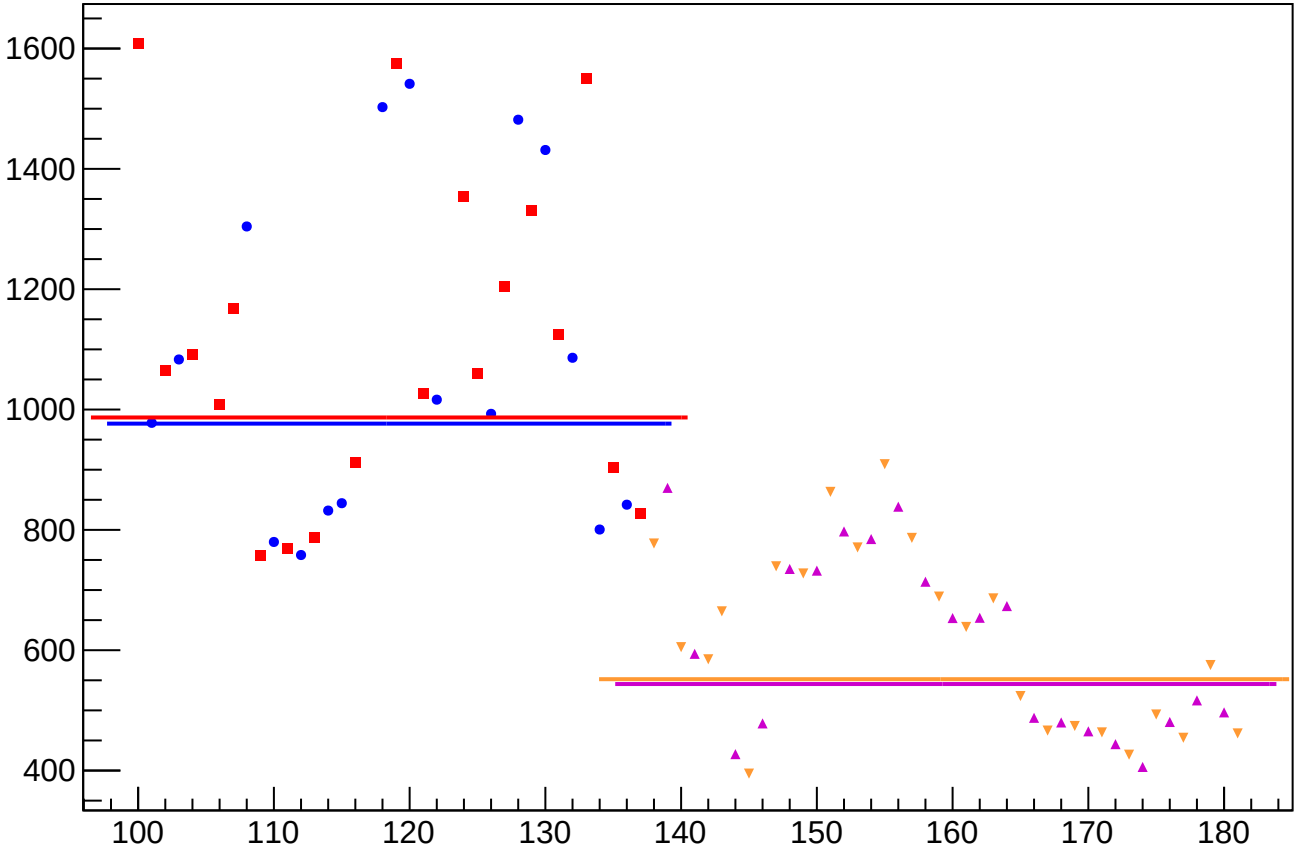
Right: 195.541+/-264.500 $\chi^2$/NDF: 42.5/34

In: 53.415+/-127.160 $\chi^2$/NDF:51.2/36

Out: -422.865+/-125.443 $\chi^2$/NDF:92.2/41

All: -187.962+/-89.303 $\chi^2$/NDF: 150.5/78

asym_sam_37_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 976.589+/-0.265 $\chi^2$/NDF: 736628.5/15

Left Out: 551.832+/-0.094 $\chi^2$/NDF:2012801.4/22

Right Out: 986.823+/-0.264 $\chi^2$/NDF: 713316.0/18

Left In: 543.795+/-0.096 $\chi^2$/NDF:1829651.7/20

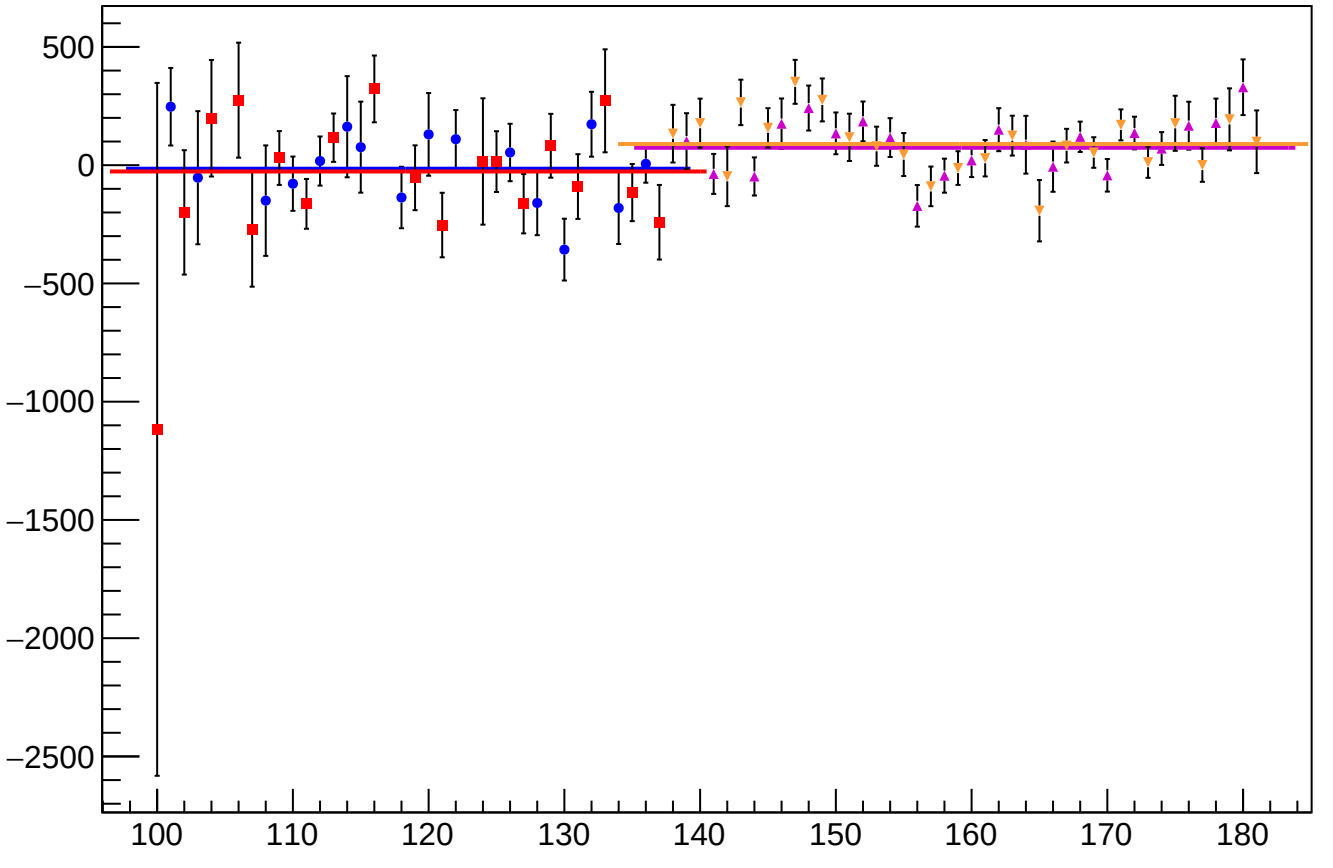
Left: 547.873+/-0.067 $\chi^2$/NDF: 3846041.1/43

Right: 981.733+/-0.187 $\chi^2$/NDF: 1450693.2/34

In: 593.551+/-0.090 $\chi^2$/NDF:4923577.4/36

Out: 601.007+/-0.089 $\chi^2$/NDF:5137456.6/41

All: 597.330+/-0.063 $\chi^2$/NDF: 10064519.4/78




Right In: -14.953+/-33.761 $\chi^2$/NDF: 18.3/15

Left Out: 89.404+/-18.026 $\chi^2$/NDF:36.7/22

Right Out: -26.654+/-34.073 $\chi^2$/NDF: 23.6/18

Left In: 73.622+/-18.515 $\chi^2$/NDF:33.7/20

Left: 81.724+/-12.916 $\chi^2$/NDF: 70.8/43

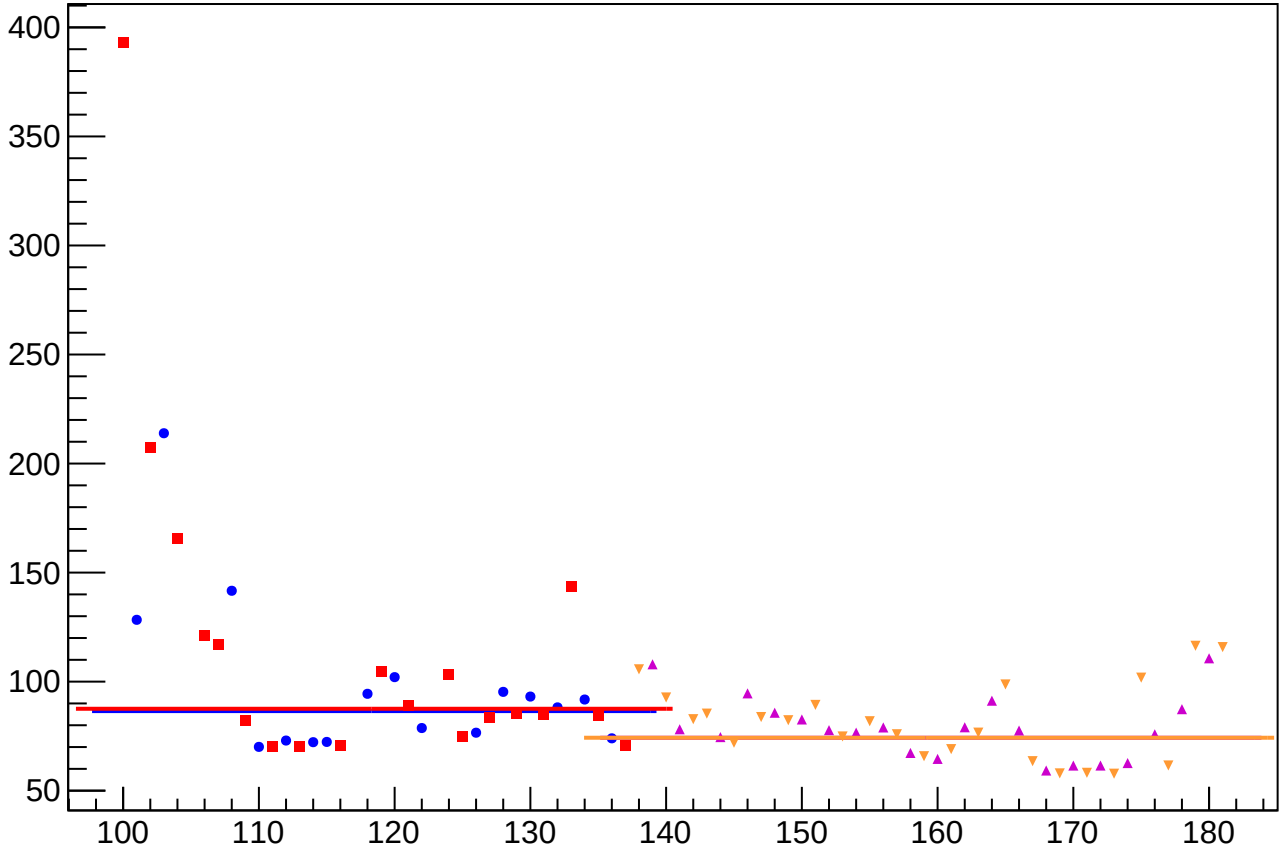
Right: -20.750+/-23.982 $\chi^2$/NDF: 41.9/34

In: 53.143+/-16.234 $\chi^2$/NDF:57.3/36

Out: 64.023+/-15.934 $\chi^2$/NDF:69.4/41

All: 58.685+/-11.371 $\chi^2$/NDF: 126.9/78

# dit_asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 86.489+/-0.024 $\chi^2$/NDF: 856257.9/15

Left Out: 74.272+/-0.013 $\chi^2$/NDF:1438619.4/22

Right Out: 87.555+/-0.024 $\chi^2$/NDF: 1129794.0/18

Left In: 74.247+/-0.013 $\chi^2$/NDF:927863.5/20

Left: 74.260+/-0.009 $\chi^2$/NDF: 2366484.7/43

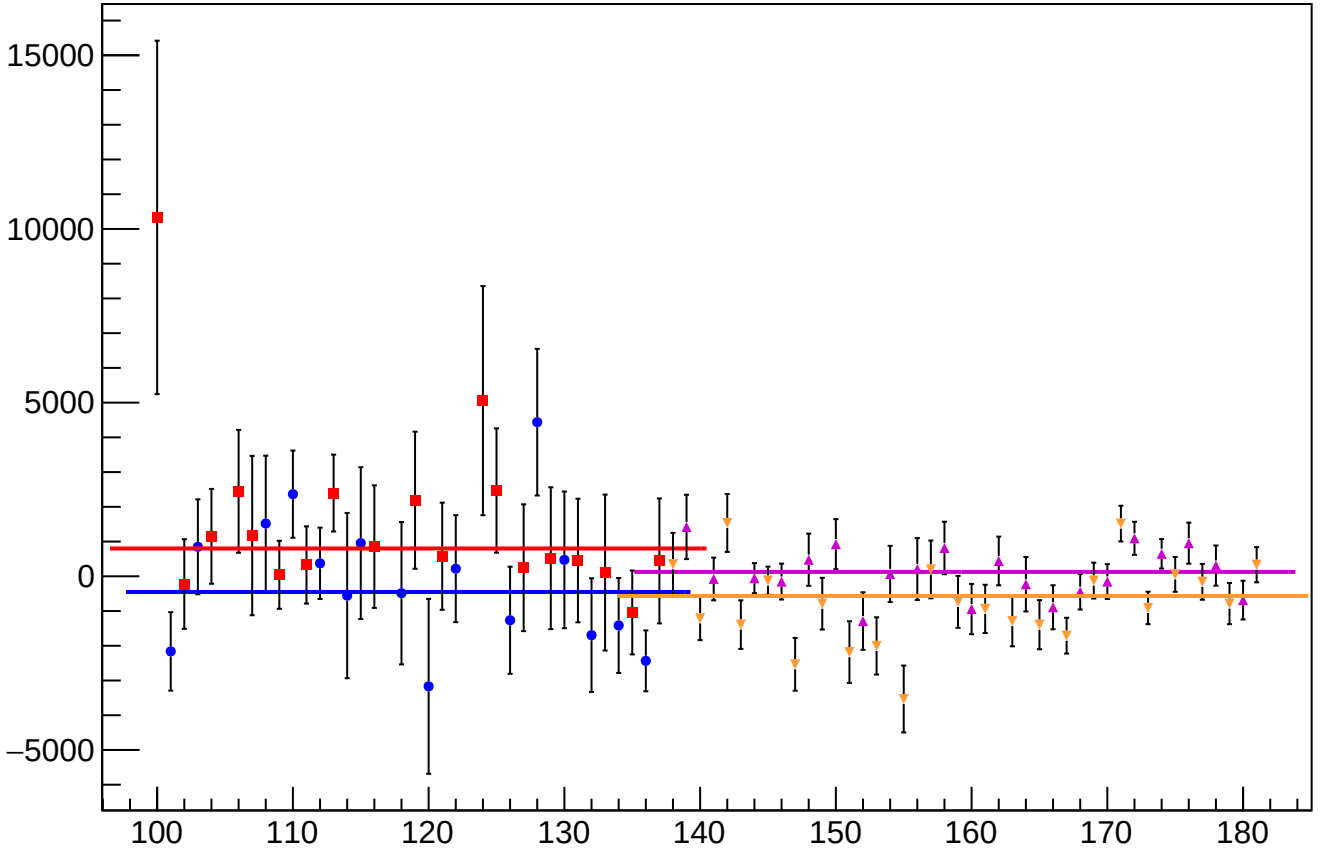
Right: 87.017+/-0.017 $\chi^2$/NDF: 1987038.9/34

In: 77.078+/-0.011 $\chi^2$/NDF:1986275.5/36

Out: 77.177+/-0.011 $\chi^2$/NDF:2805877.8/41

All: 77.128+/-0.008 $\chi^2$/NDF: 4792191.1/78

asym_sam_37_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -451.380+/-365.605 $\chi^2$/NDF: 23.7/15

Left Out: -567.182+/-128.745 $\chi^2$/NDF:65.3/22

Right Out: 801.206+/-357.866 $\chi^2$/NDF: 13.6/18

Left In: 126.067+/-131.939 $\chi^2$/NDF:24.3/20

Left: -229.050+/-92.145 $\chi^2$/NDF: 103.7/43

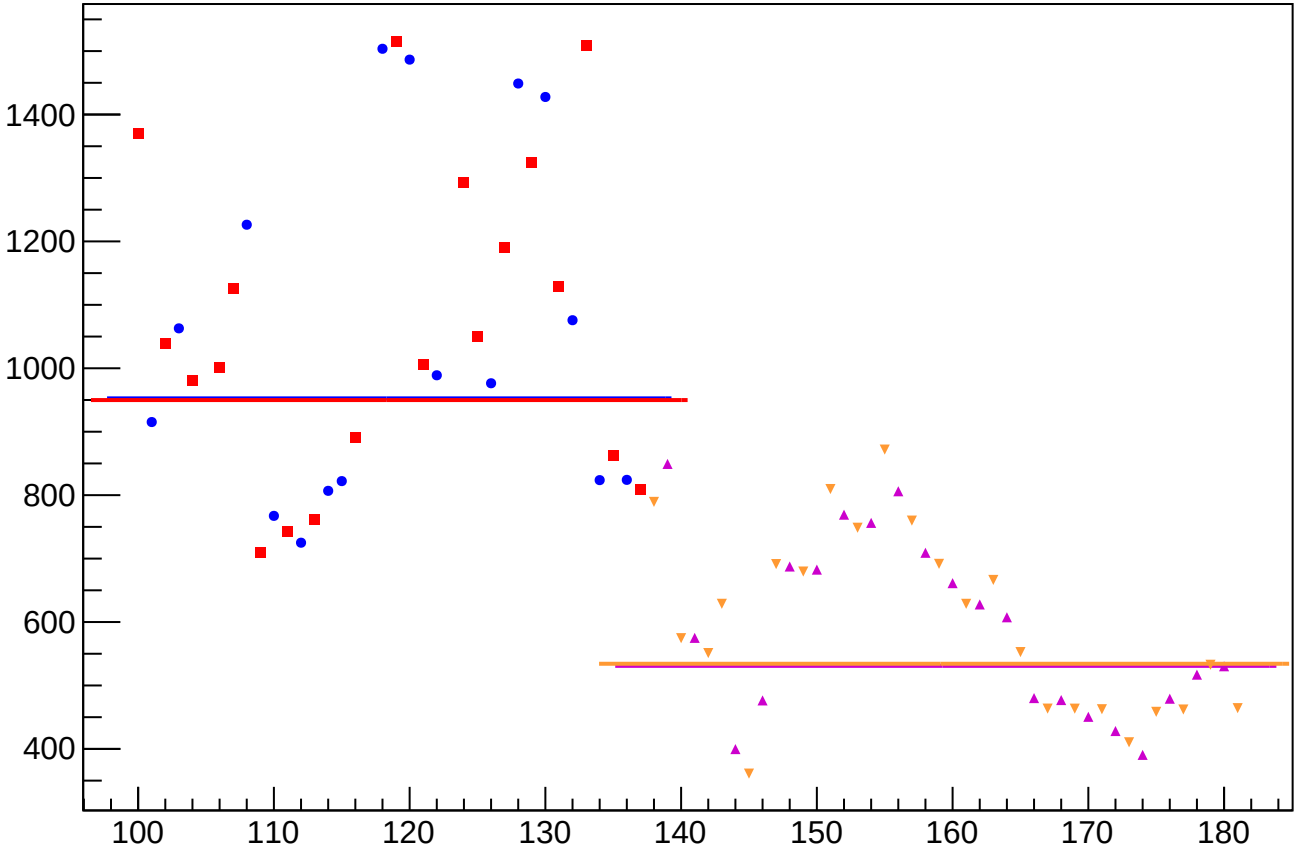
Right: 188.311+/-255.742 $\chi^2$/NDF: 43.3/34

In: 59.529+/-124.105 $\chi^2$/NDF:50.2/36

Out: -410.372+/-121.144 $\chi^2$/NDF:91.9/41

All: -181.094+/-86.690 $\chi^2$/NDF: 149.4/78

asym_sam_37_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 952.551+/-0.259 $\chi^2$/NDF: 746346.9/15

Left Out: 534.217+/-0.091 $\chi^2$/NDF:2027555.6/22

Right Out: 949.891+/-0.253 $\chi^2$/NDF: 751675.2/18

Left In: 530.919+/-0.093 $\chi^2$/NDF:1786843.4/20

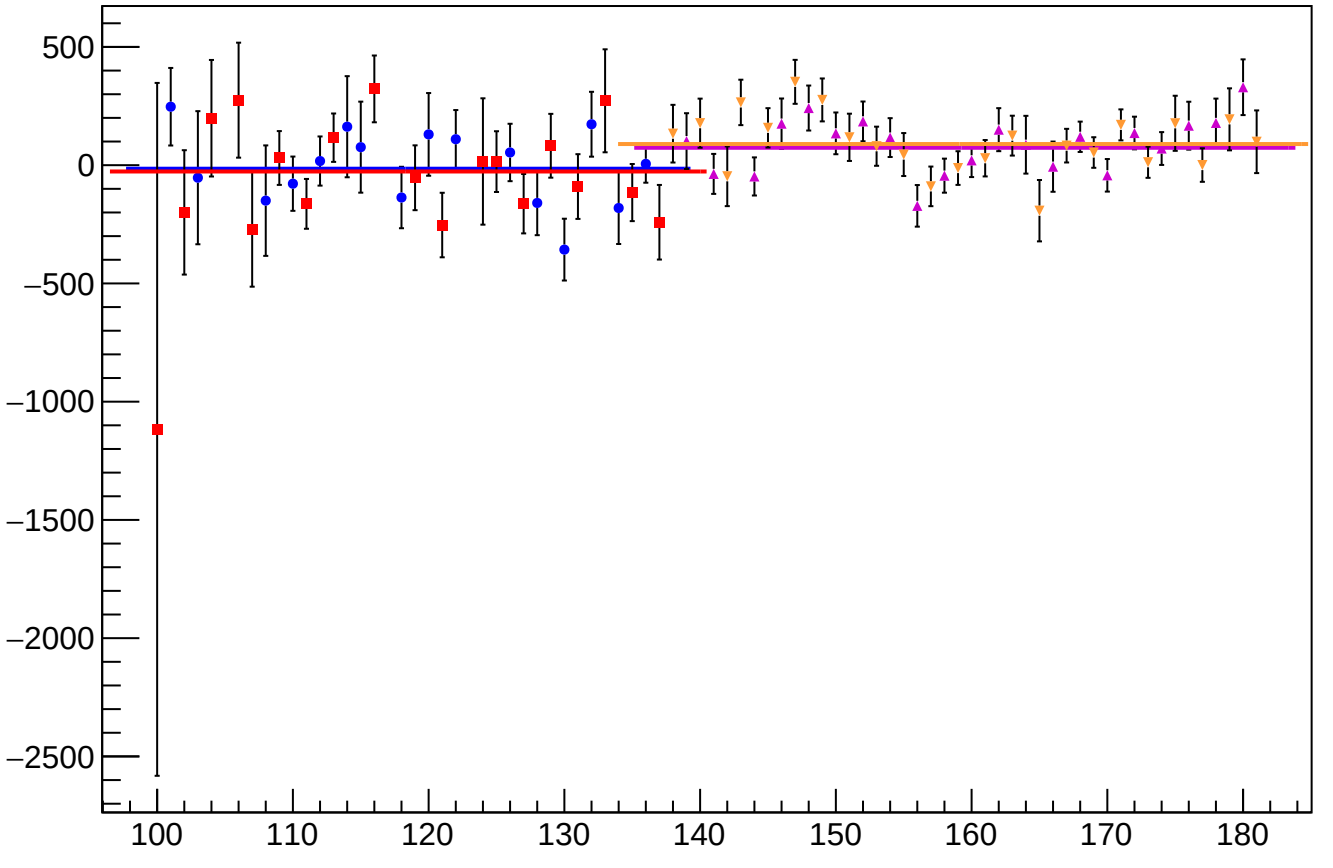
Left: 532.609+/-0.065 $\chi^2$/NDF: 3815039.3/43

Right: 951.193+/-0.181 $\chi^2$/NDF: 1498076.1/34

In: 579.503+/-0.088 $\chi^2$/NDF:4886631.9/36

Out: 581.851+/-0.086 $\chi^2$/NDF:5168348.3/41

All: 580.705+/-0.061 $\chi^2$/NDF: 10055347.0/78




Right In: -14.954+/-33.761 $\chi^2$/NDF: 18.3/15

Left Out: 89.404+/-18.026 $\chi^2$/NDF:36.7/22

Right Out: -26.658+/-34.073 $\chi^2$/NDF: 23.6/18

Left In: 73.622+/-18.515 $\chi^2$/NDF:33.7/20

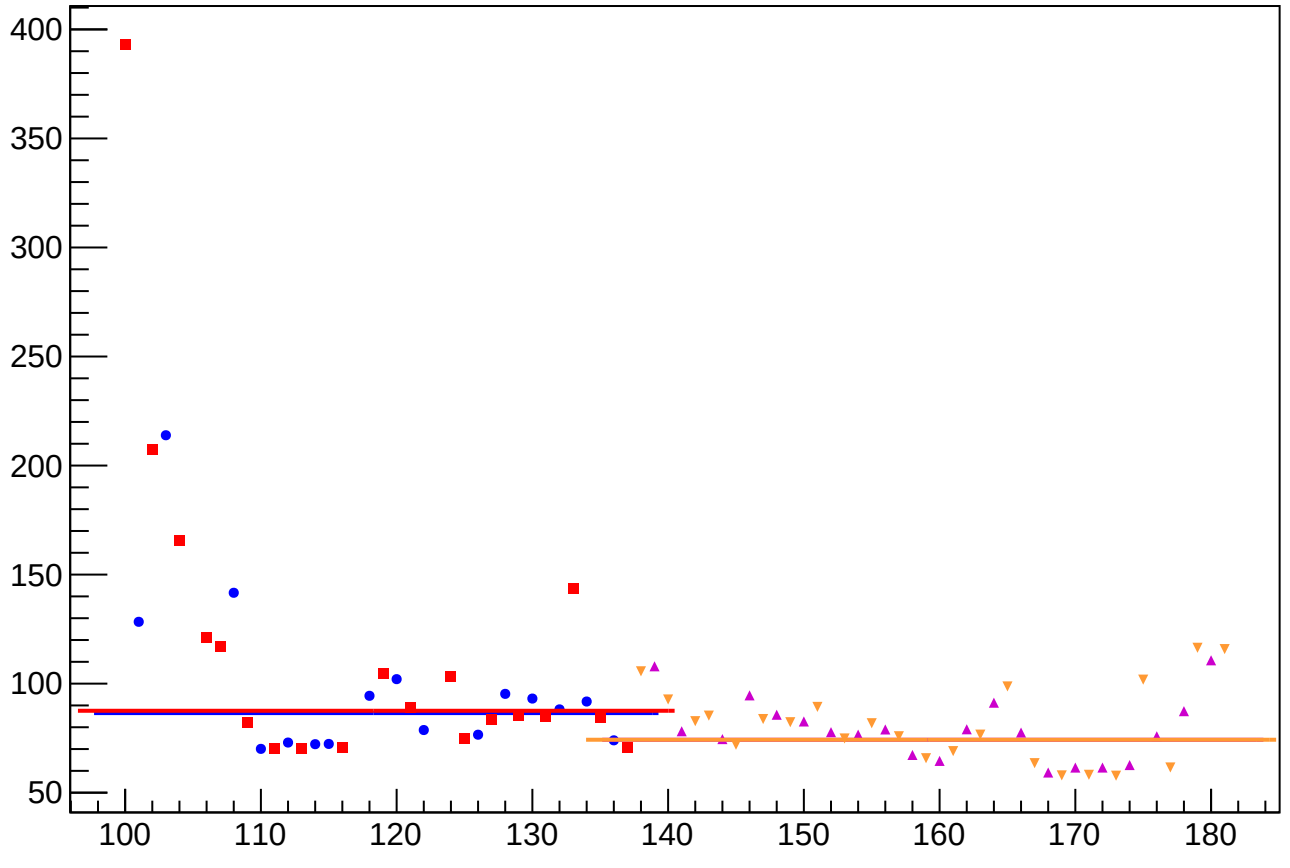
Left: 81.724+/-12.916 $\chi^2$/NDF: 70.8/43

Right: -20.752+/-23.982 $\chi^2$/NDF: 41.9/34

In: 53.142+/-16.234 $\chi^2$/NDF:57.3/36

Out: 64.023+/-15.934 $\chi^2$/NDF:69.4/41

All: 58.684+/-11.371 $\chi^2$/NDF: 126.9/78




Right In: 86.489+/-0.024 $\chi^2$/NDF: 856249.6/15

Left Out: 74.272+/-0.013 $\chi^2$/NDF:1438623.3/22

Right Out: 87.555+/-0.024 $\chi^2$/NDF: 1129791.7/18

Left In: 74.248+/-0.013 $\chi^2$/NDF:927867.1/20

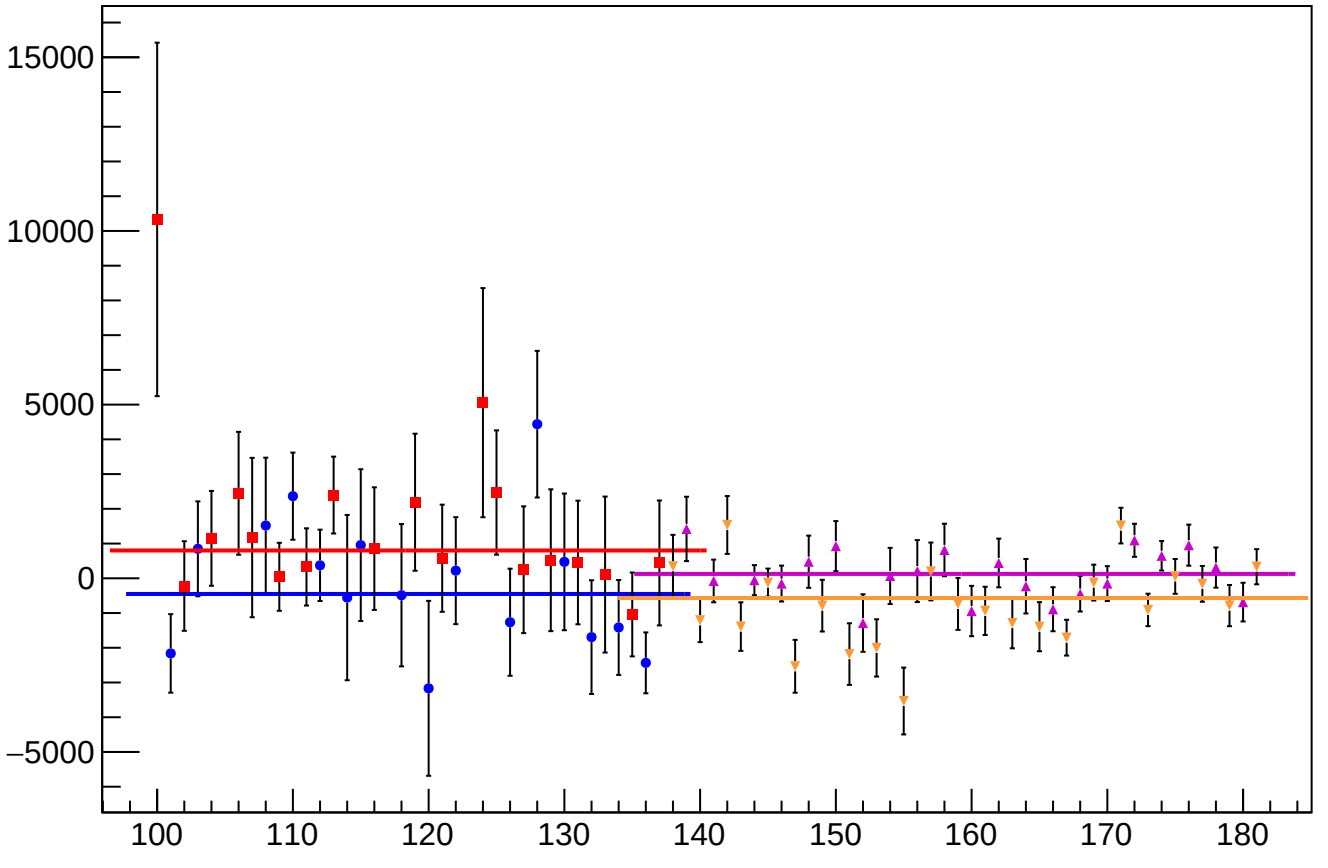
Left: 74.260+/-0.009 $\chi^2$/NDF: 2366492.2/43

Right: 87.017+/-0.017 $\chi^2$/NDF: 1987028.5/34

In: 77.078+/-0.011 $\chi^2$/NDF:1986274.0/36

Out: 77.177+/-0.011 $\chi^2$/NDF:2805884.4/41

All: 77.129+/-0.008 $\chi^2$/NDF: 4792196.3/78




Right In: -451.378+/-365.605 $\chi^2$/NDF: 23.7/15

Left Out: -567.182+/-128.745 $\chi^2$/NDF:65.3/22

Right Out: 801.205+/-357.865 $\chi^2$/NDF: 13.6/18

Left In: 126.066+/-131.939 $\chi^2$/NDF:24.3/20

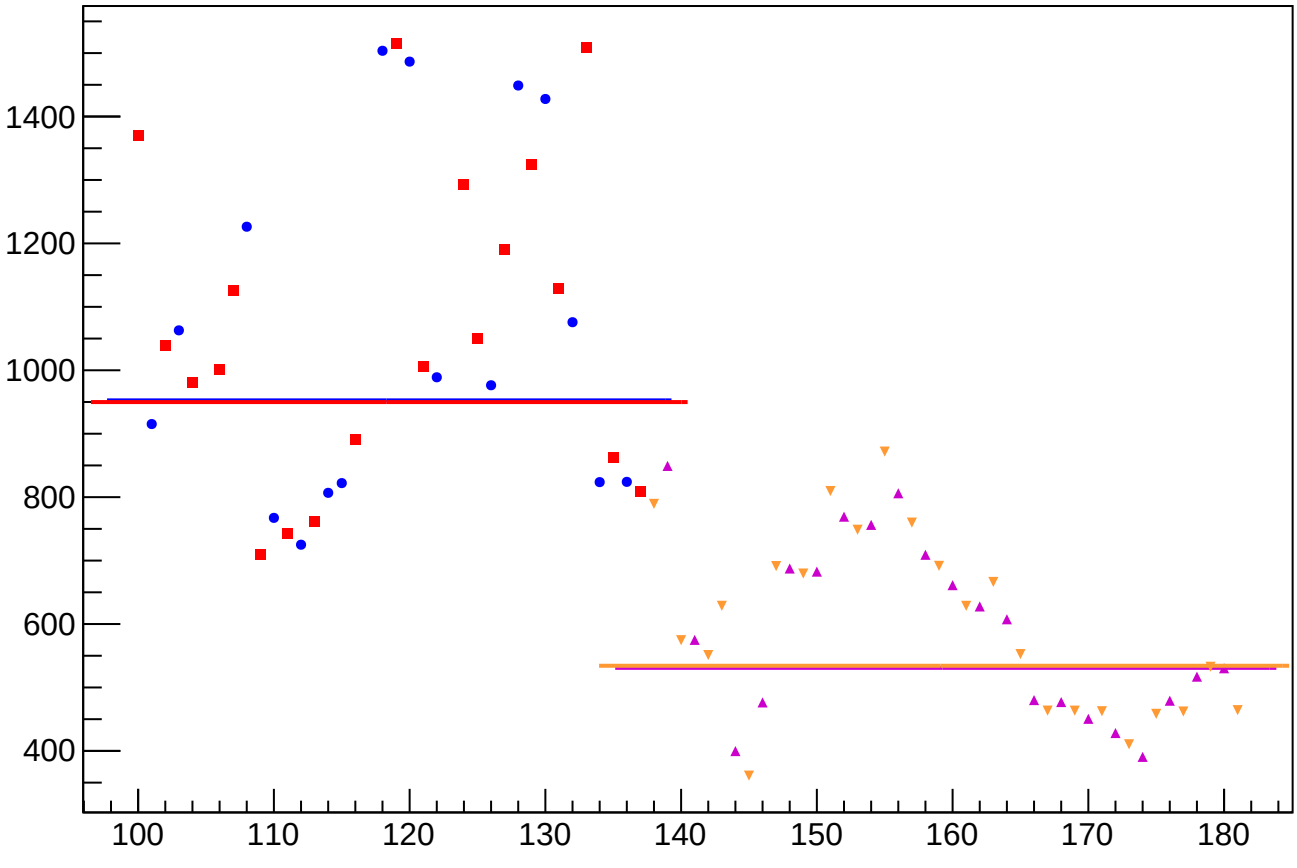
Left: -229.051+/-92.145 $\chi^2$/NDF: 103.7/43

Right: 188.312+/-255.741 $\chi^2$/NDF: 43.3/34

In: 59.529+/-124.105 $\chi^2$/NDF:50.2/36

Out: -410.372+/-121.144 $\chi^2$/NDF:91.9/41

All: -181.094+/-86.690 $\chi^2$/NDF: 149.4/78




Right In: 952.549+/-0.259 $\chi^2$/NDF: 746349.8/15

Left Out: 534.217+/-0.091 $\chi^2$/NDF:2027550.8/22

Right Out: 949.890+/-0.253 $\chi^2$/NDF: 751674.5/18

Left In: 530.919+/-0.093 $\chi^2$/NDF:1786837.6/20

Left: 532.608+/-0.065 $\chi^2$/NDF: 3815028.5/43

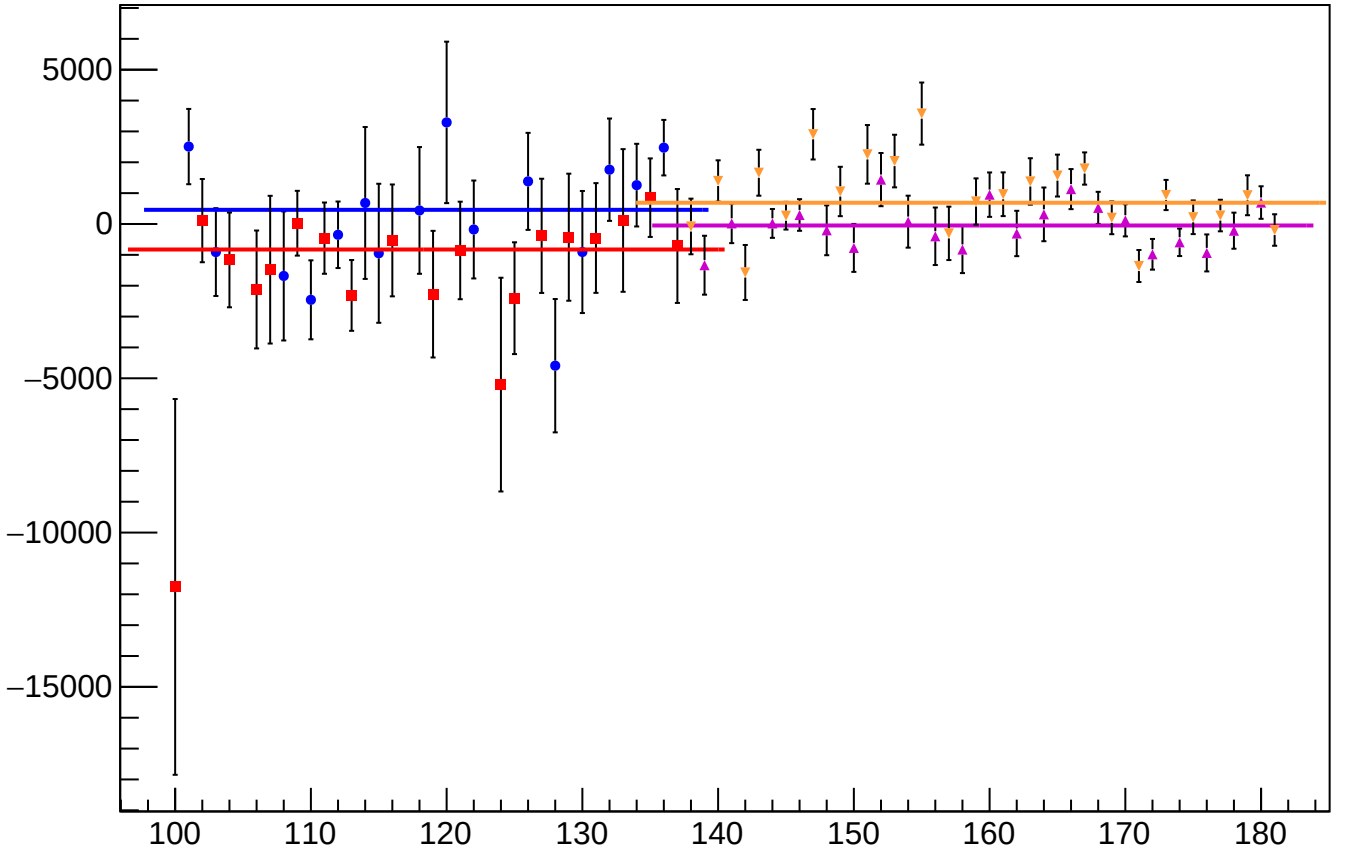
Right: 951.191+/-0.181 $\chi^2$/NDF: 1498078.4/34

In: 579.502+/-0.088 $\chi^2$/NDF:4886618.8/36

Out: 581.851+/-0.086 $\chi^2$/NDF:5168333.9/41

All: 580.705+/-0.061 $\chi^2$/NDF: 10055319.6/78

# asym_sam_37_avg_mean vs Slug, Sign Corrected




Right In: 459.137+/-376.873 $\chi^2$/NDF: 24.6/15

Left Out: 688.815+/-134.136 $\chi^2$/NDF:61.7/22

Right Out: -826.531+/-374.244 $\chi^2$/NDF: 11.7/18

Left In: -48.549+/-136.136 $\chi^2$/NDF:23.5/20

Left: 325.589+/-95.547 $\chi^2$/NDF: 100.1/43

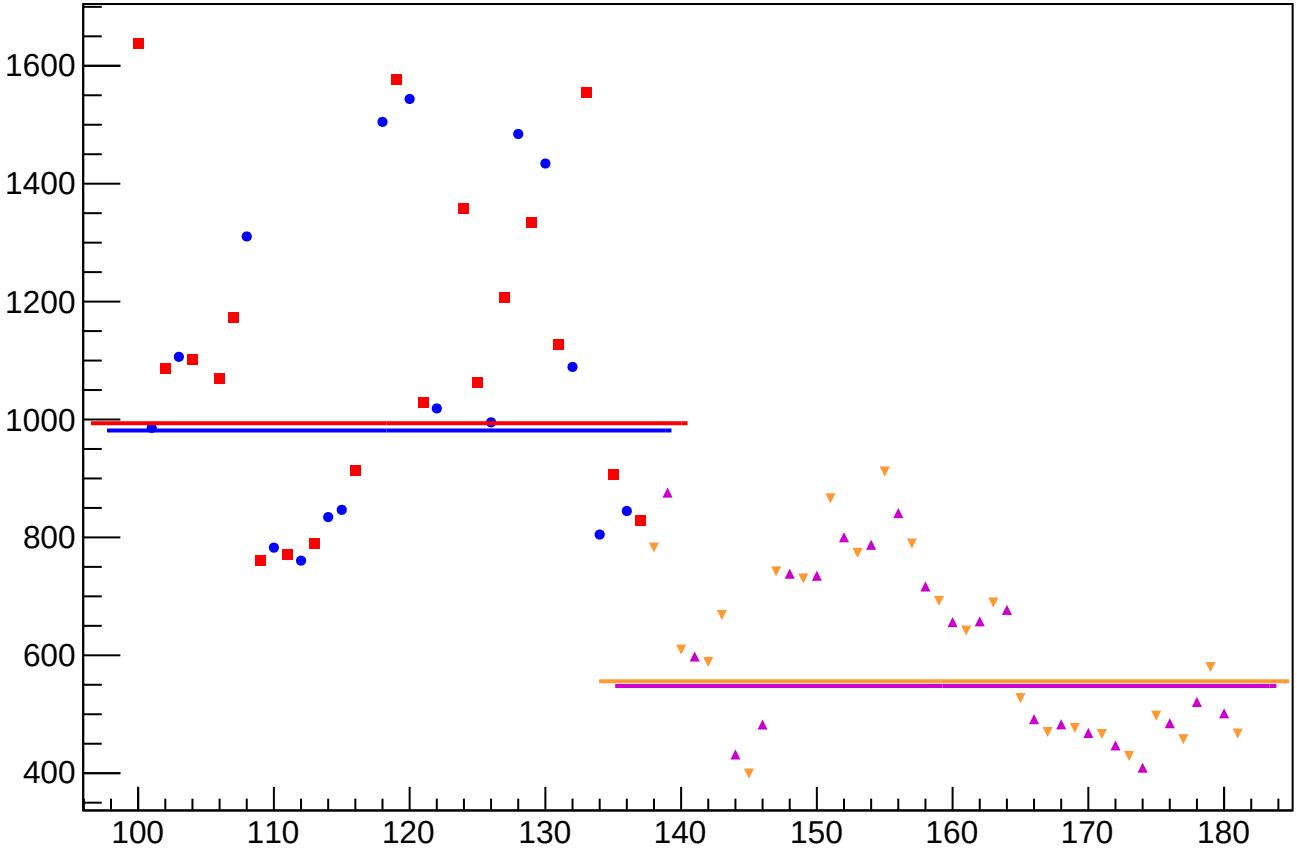
Right: -188.198+/-265.555 $\chi^2$/NDF: 42.1/34

In: 10.049+/-128.038 $\chi^2$/NDF:49.7/36

Out: 516.309+/-126.270 $\chi^2$/NDF:87.9/41

All: 266.699+/-89.905 $\chi^2$/NDF: 145.5/78

# asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 981.349+/-0.266 $\chi^2$/NDF: 737627.4/15

Left Out: 555.944+/-0.095 $\chi^2$/NDF:1984218.6/22

Right Out: 993.684+/-0.265 $\chi^2$/NDF: 719799.0/18

Left In: 547.906+/-0.096 $\chi^2$/NDF:1804943.8/20

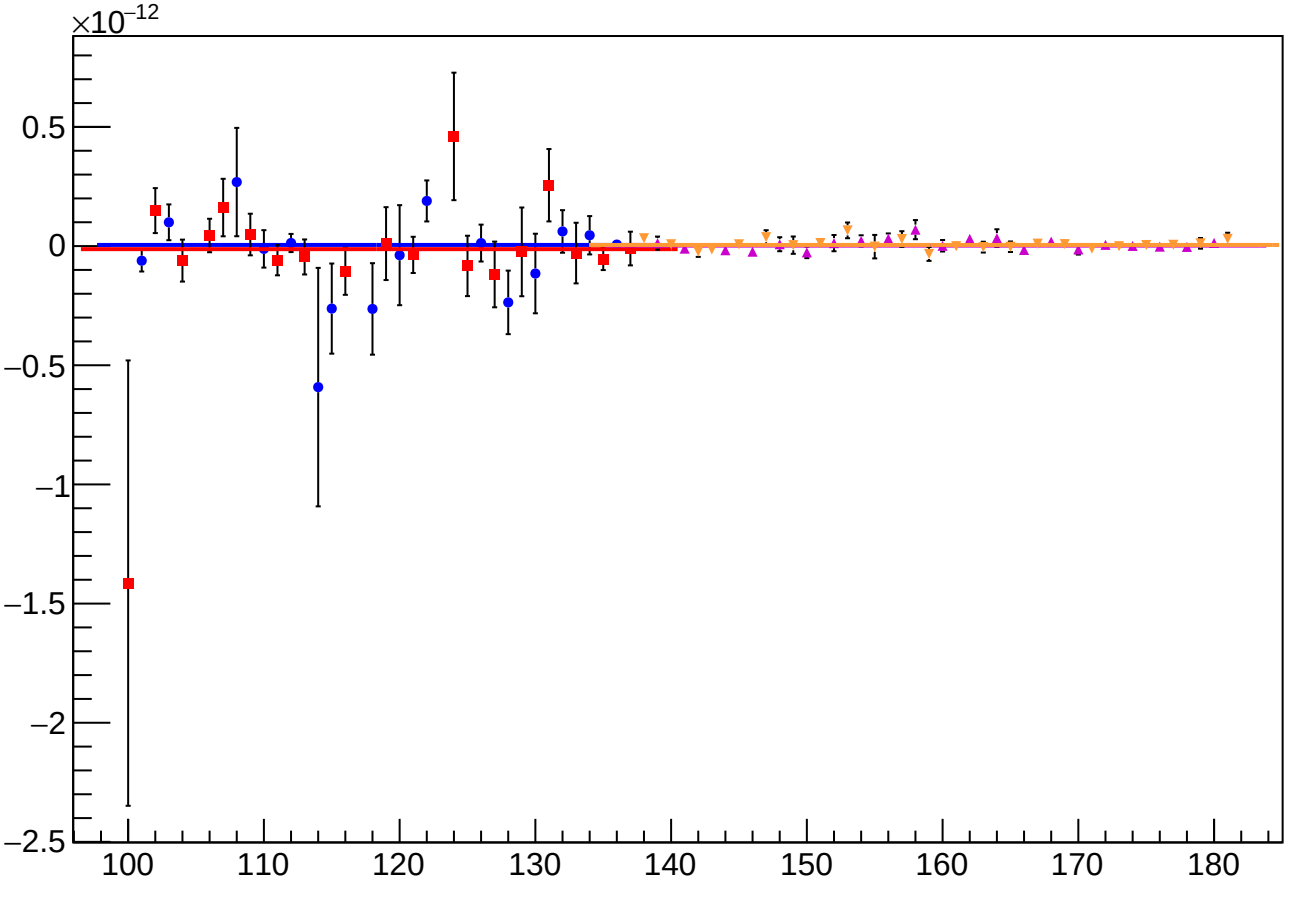
Left: 551.985+/-0.068 $\chi^2$/NDF: 3792700.4/43

Right: 987.560+/-0.188 $\chi^2$/NDF: 1458505.1/34

In: 597.935+/-0.091 $\chi^2$/NDF:4882698.8/36

Out: 605.776+/-0.089 $\chi^2$/NDF:5128761.5/41

All: 601.910+/-0.064 $\chi^2$/NDF: 10015263.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.8/20

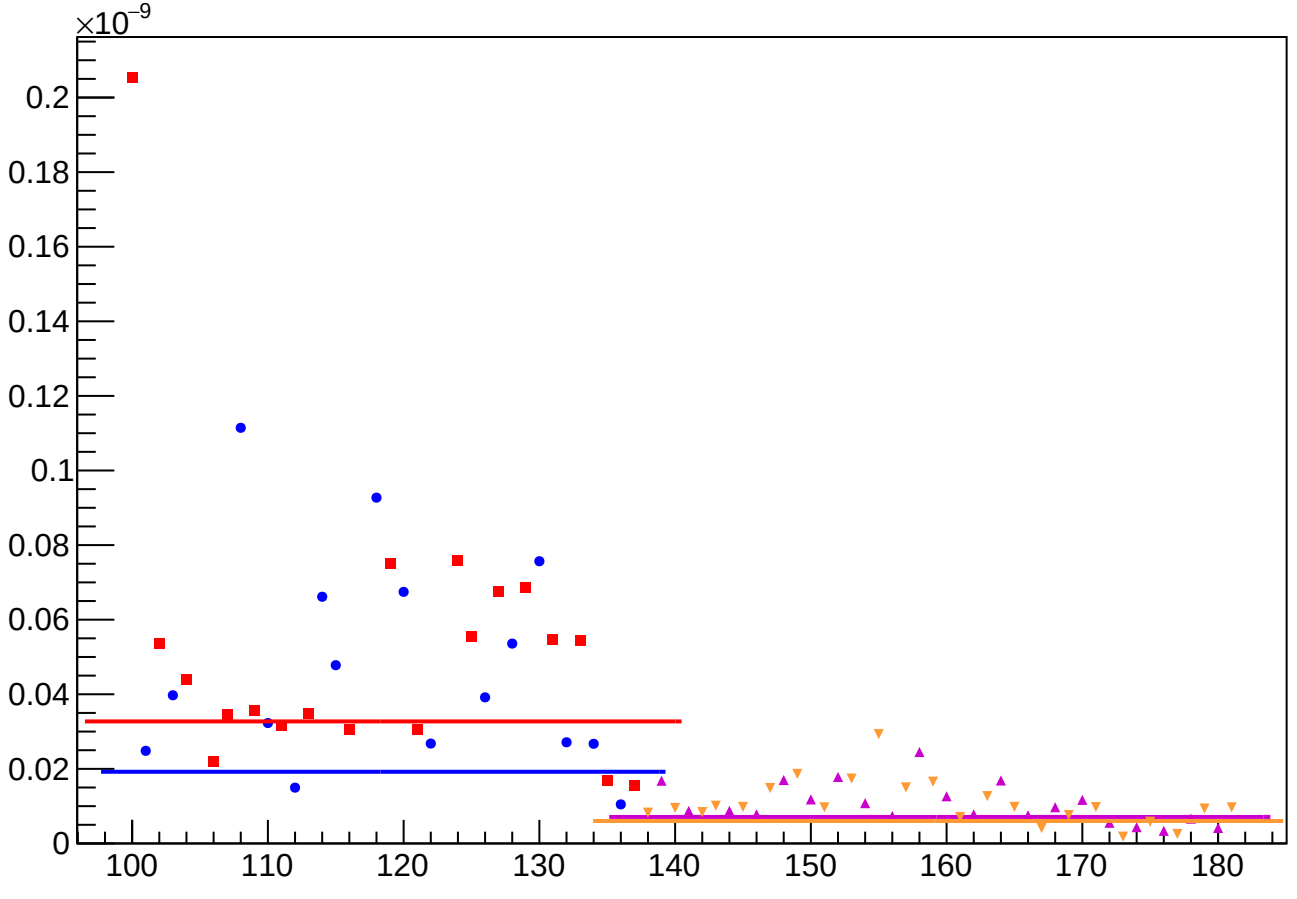
Left: 0.000+/-0.000 $\chi^2$/NDF: 35.5/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 38.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:39.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:34.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 74.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1977908.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3600287.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1181327.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2292728.8/20

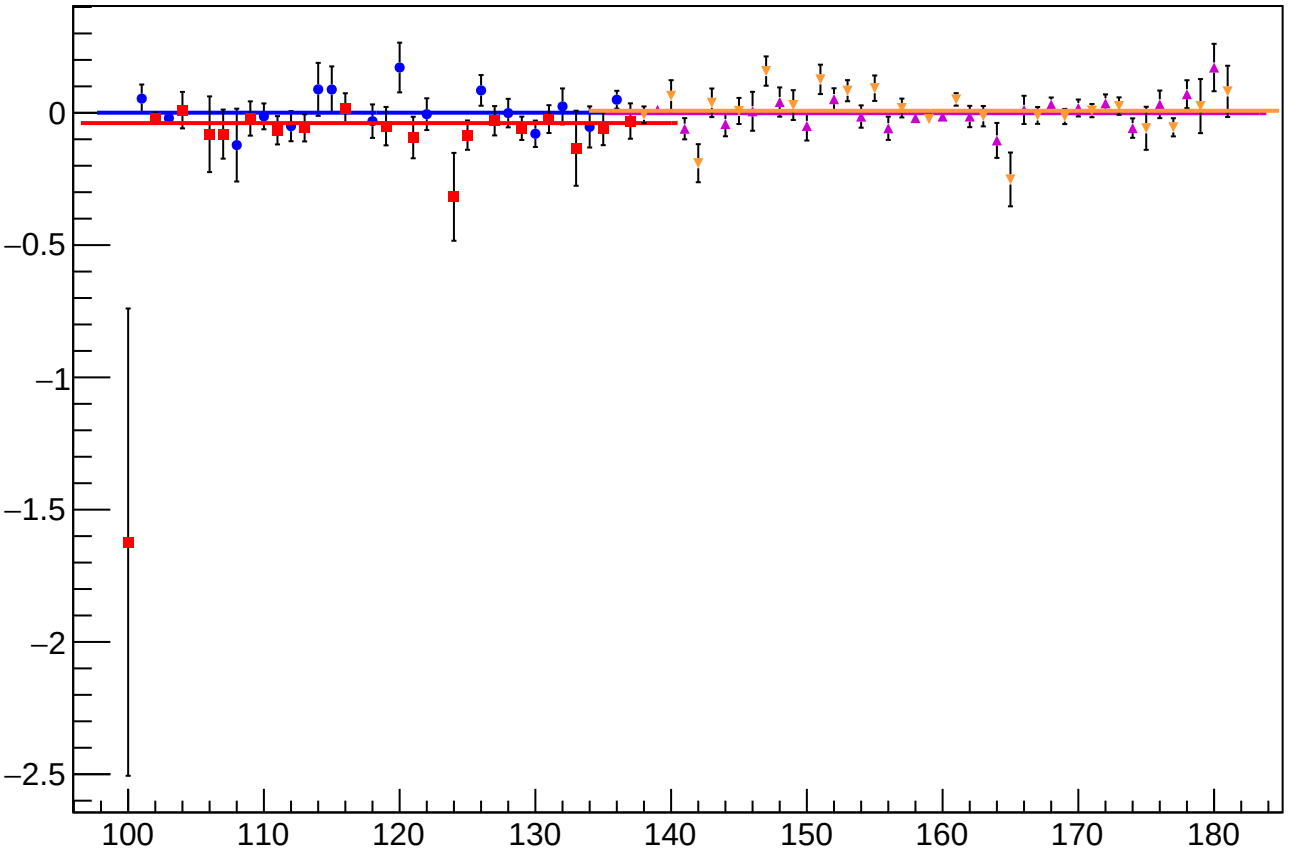
Left: 0.000+/-0.000 $\chi^2$/NDF: 6000882.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3729954.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:5597391.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8023357.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 13753263.4/78




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: 0.008+/-0.008 $\chi^2$/NDF:47.4/22

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: -0.001+/-0.007 $\chi^2$/NDF:24.1/20

Left: 0.003+/-0.005 $\chi^2$/NDF: 72.3/43

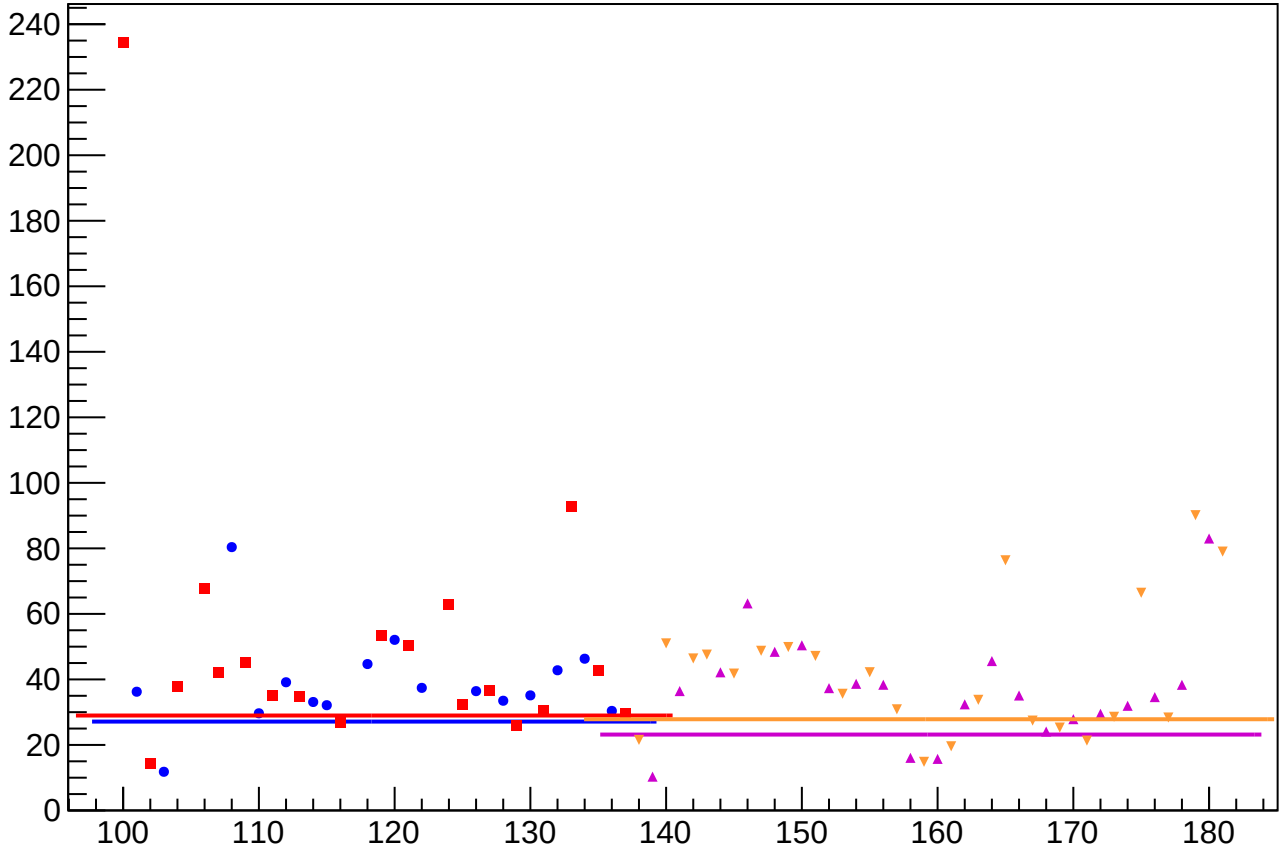
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: -0.001+/-0.006 $\chi^2$/NDF:40.6/36

Out: -0.005+/-0.007 $\chi^2$/NDF:68.5/41

All: -0.003+/-0.004 $\chi^2$/NDF: 109.2/78

asym_sam_37_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.128+/-0.009 $\chi^2$/NDF: 2415316.1/15

Left Out: 27.842+/-0.005 $\chi^2$/NDF:5946213.3/22

Right Out: 28.979+/-0.009 $\chi^2$/NDF: 2456254.0/18

Left In: 23.165+/-0.005 $\chi^2$/NDF:7109914.0/20

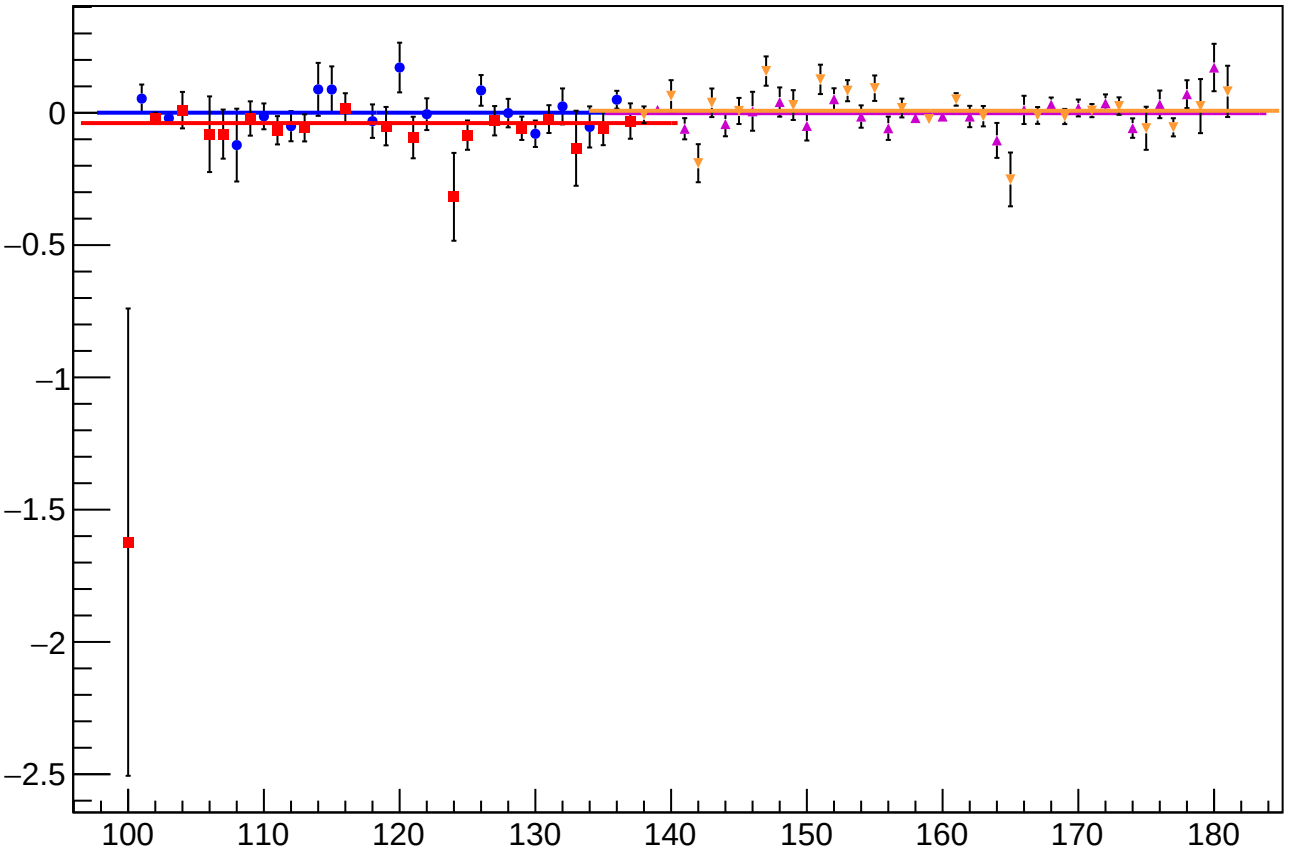
Left: 25.250+/-0.004 $\chi^2$/NDF: 13474355.0/43

Right: 28.008+/-0.006 $\chi^2$/NDF: 4894073.5/34

In: 24.131+/-0.004 $\chi^2$/NDF:9689286.7/36

Out: 28.145+/-0.005 $\chi^2$/NDF:8414335.8/41

All: 25.951+/-0.003 $\chi^2$/NDF: 18517881.1/78




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: 0.008+/-0.008 $\chi^2$/NDF:47.4/22

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: -0.001+/-0.007 $\chi^2$/NDF:24.1/20

Left: 0.003+/-0.005 $\chi^2$/NDF: 72.3/43

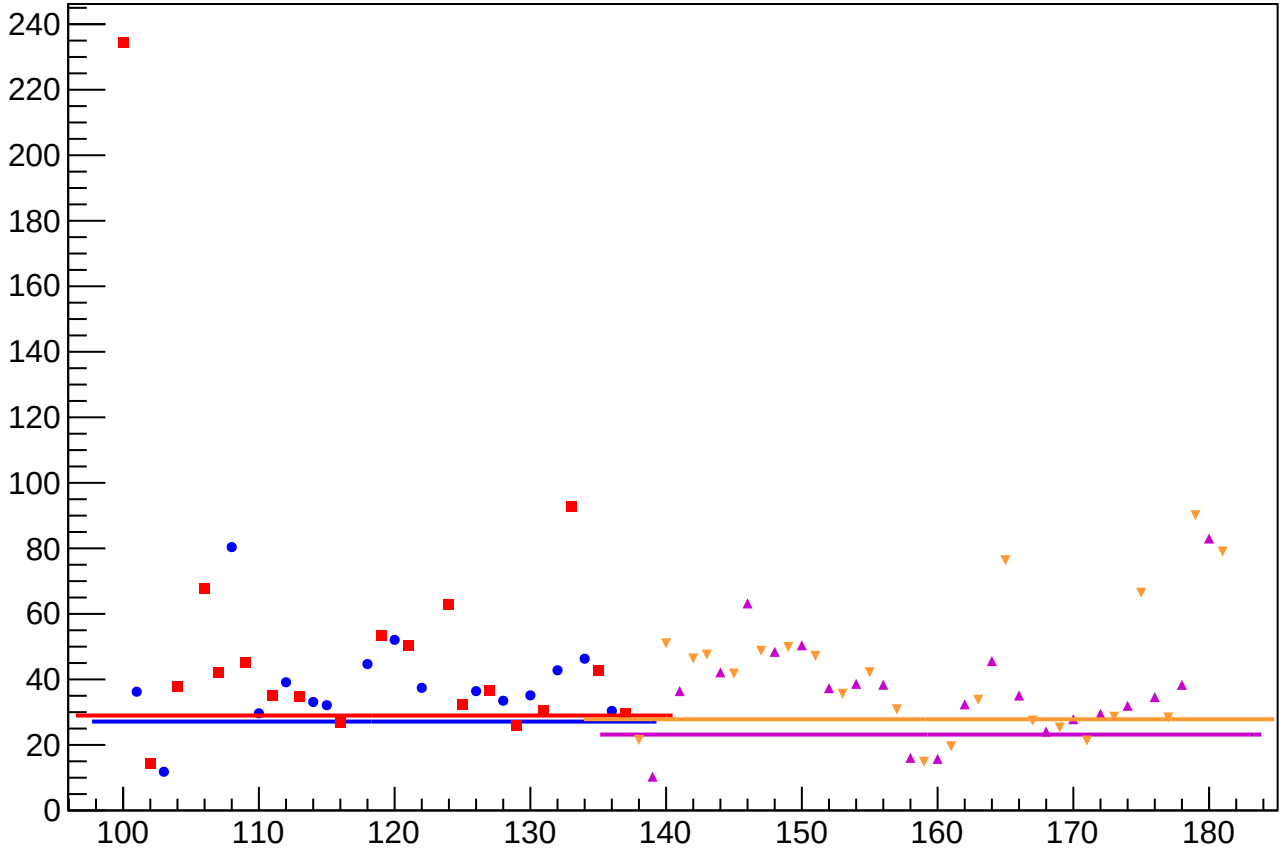
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: -0.001+/-0.006 $\chi^2$/NDF:40.6/36

Out: -0.005+/-0.007 $\chi^2$/NDF:68.5/41

All: -0.003+/-0.004 $\chi^2$/NDF: 109.2/78

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.128+/-0.009 $\chi^2$/NDF: 2415316.1/15

Left Out: 27.842+/-0.005 $\chi^2$/NDF:5946213.3/22

Right Out: 28.979+/-0.009 $\chi^2$/NDF: 2456254.0/18

Left In: 23.165+/-0.005 $\chi^2$/NDF:7109914.0/20

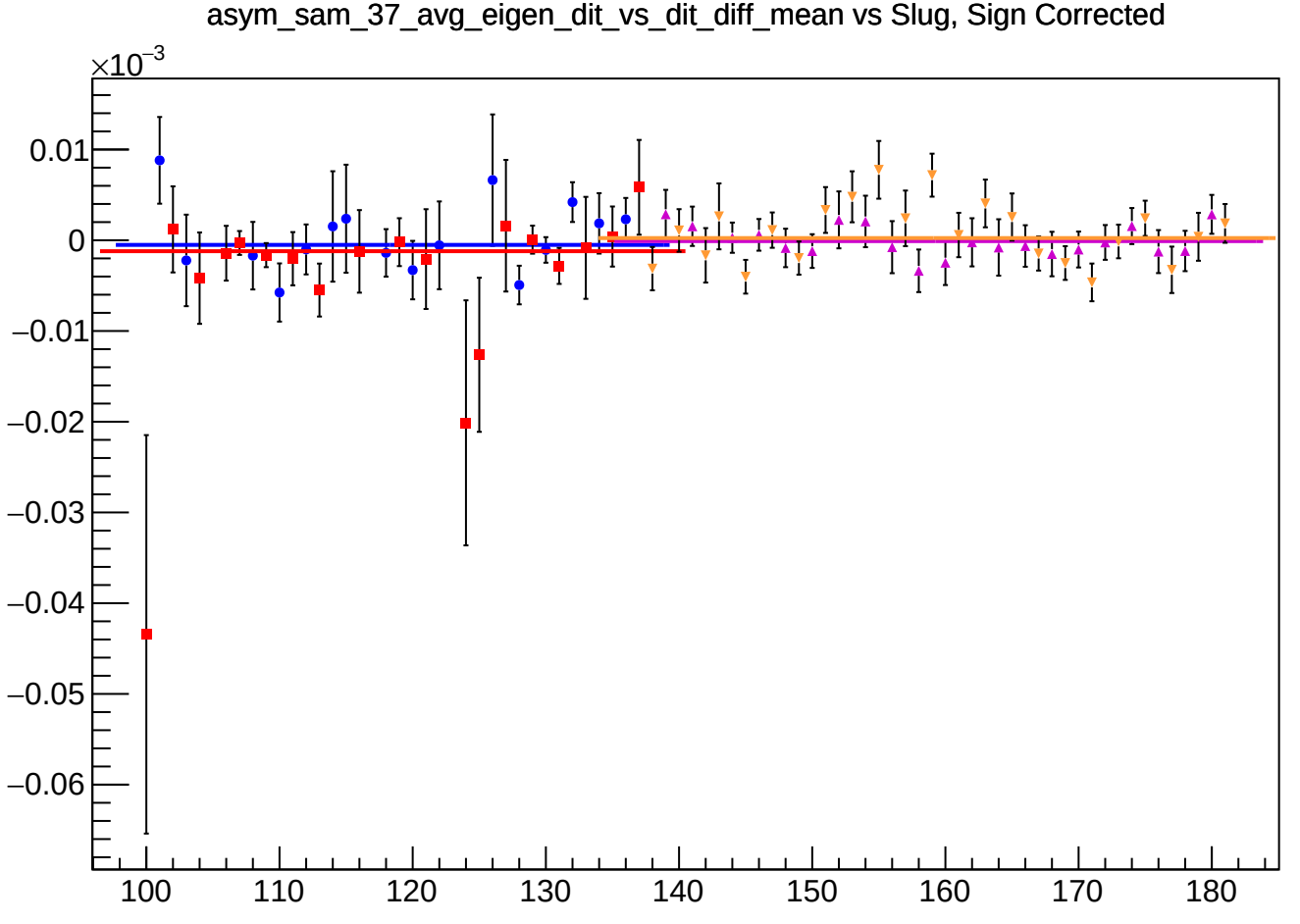
Left: 25.250+/-0.004 $\chi^2$/NDF: 13474355.0/43

Right: 28.008+/-0.006 $\chi^2$/NDF: 4894073.5/34

In: 24.131+/-0.004 $\chi^2$/NDF:9689286.7/36

Out: 28.145+/-0.005 $\chi^2$/NDF:8414335.8/41

All: 25.951+/-0.003 $\chi^2$/NDF: 18517881.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:43.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:10.3/20

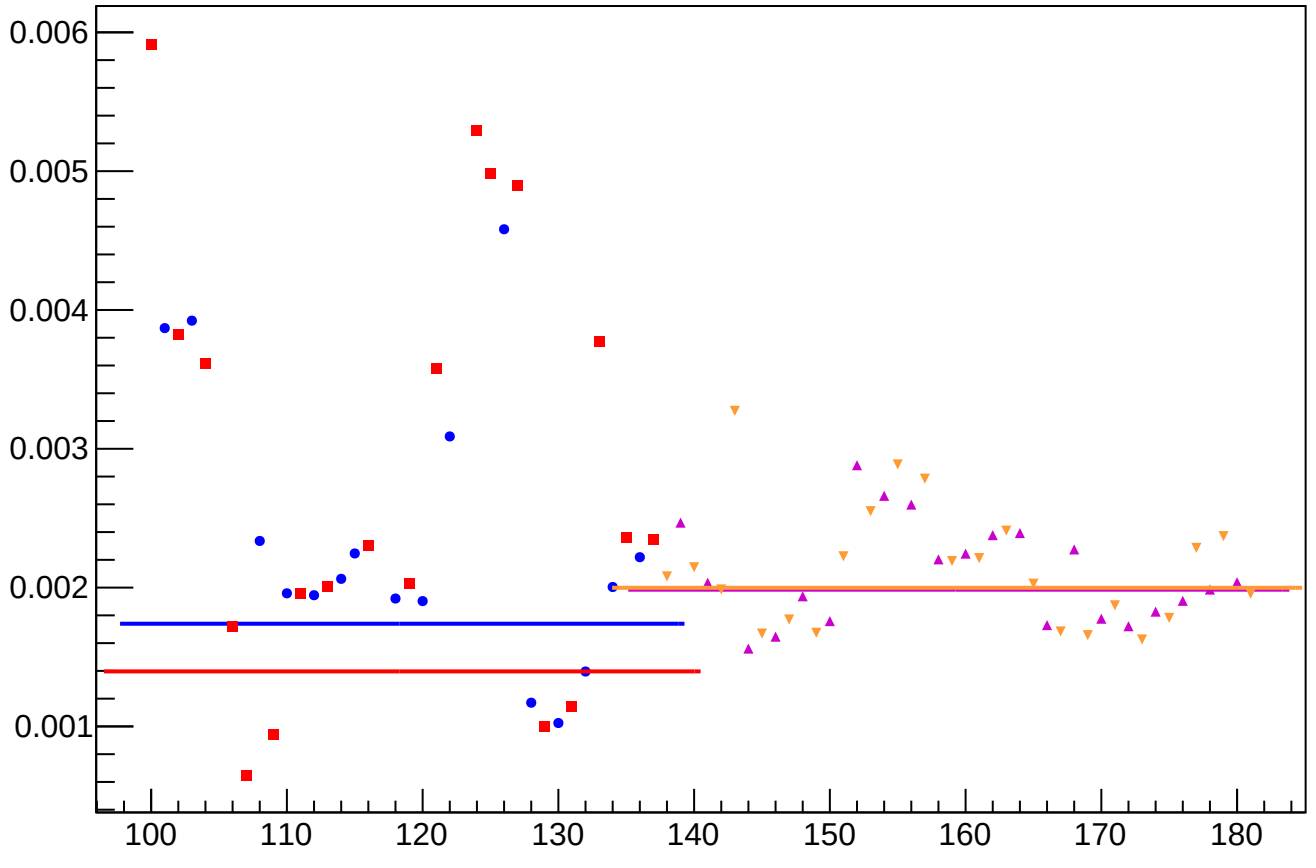
Left: 0.000+/-0.000 $\chi^2$/NDF: 54.4/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:30.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:61.9/41

All: -0.000+/-0.000 $\chi^2$/NDF: 92.4/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2146798.7/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1171185.3/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4323193.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:916575.9/20

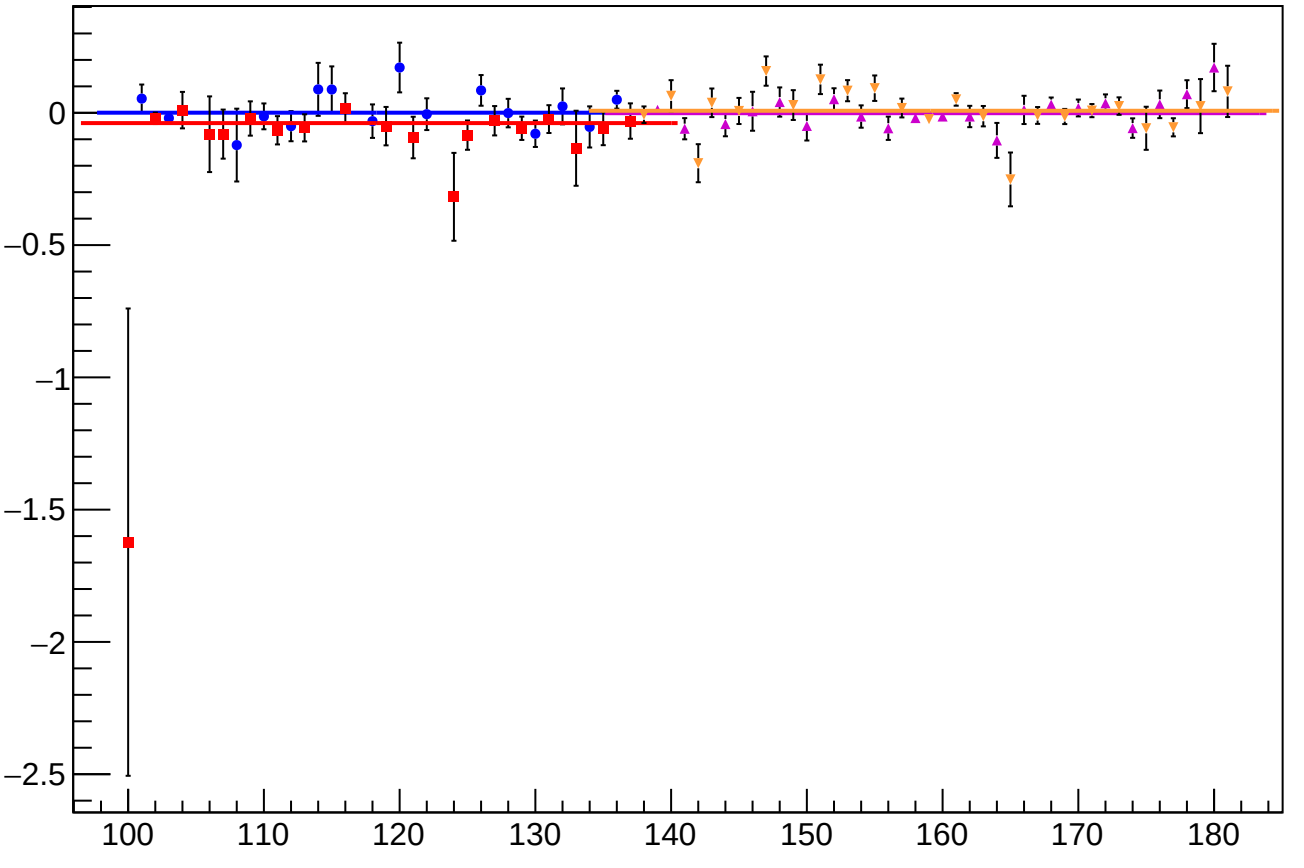
Left: 0.002+/-0.000 $\chi^2$/NDF: 2088572.3/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 6735676.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:3223808.6/36

Out: 0.002+/-0.000 $\chi^2$/NDF:6700806.6/41

All: 0.002+/-0.000 $\chi^2$/NDF: 10047538.4/78




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: 0.008+/-0.008 $\chi^2$/NDF:47.4/22

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: -0.001+/-0.007 $\chi^2$/NDF:24.1/20

Left: 0.003+/-0.005 $\chi^2$/NDF: 72.3/43

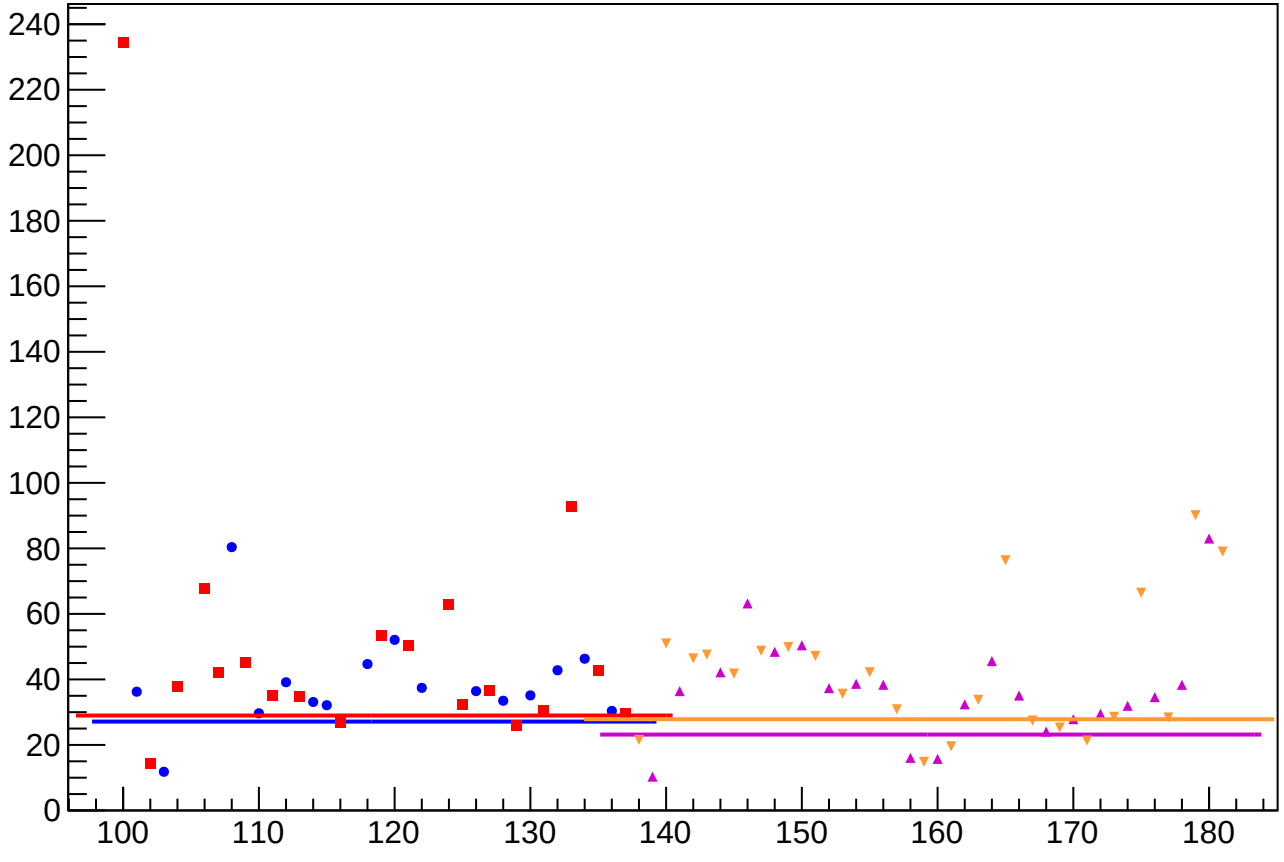
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: -0.001+/-0.006 $\chi^2$/NDF:40.6/36

Out: -0.005+/-0.007 $\chi^2$/NDF:68.5/41

All: -0.003+/-0.004 $\chi^2$/NDF: 109.2/78

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.127+/-0.009 $\chi^2$/NDF: 2415651.3/15

Left Out: 27.842+/-0.005 $\chi^2$/NDF:5946663.1/22

Right Out: 28.982+/-0.009 $\chi^2$/NDF: 2455659.1/18

Left In: 23.164+/-0.005 $\chi^2$/NDF:7110934.0/20

Left: 25.250+/-0.004 $\chi^2$/NDF: 13475972.9/43

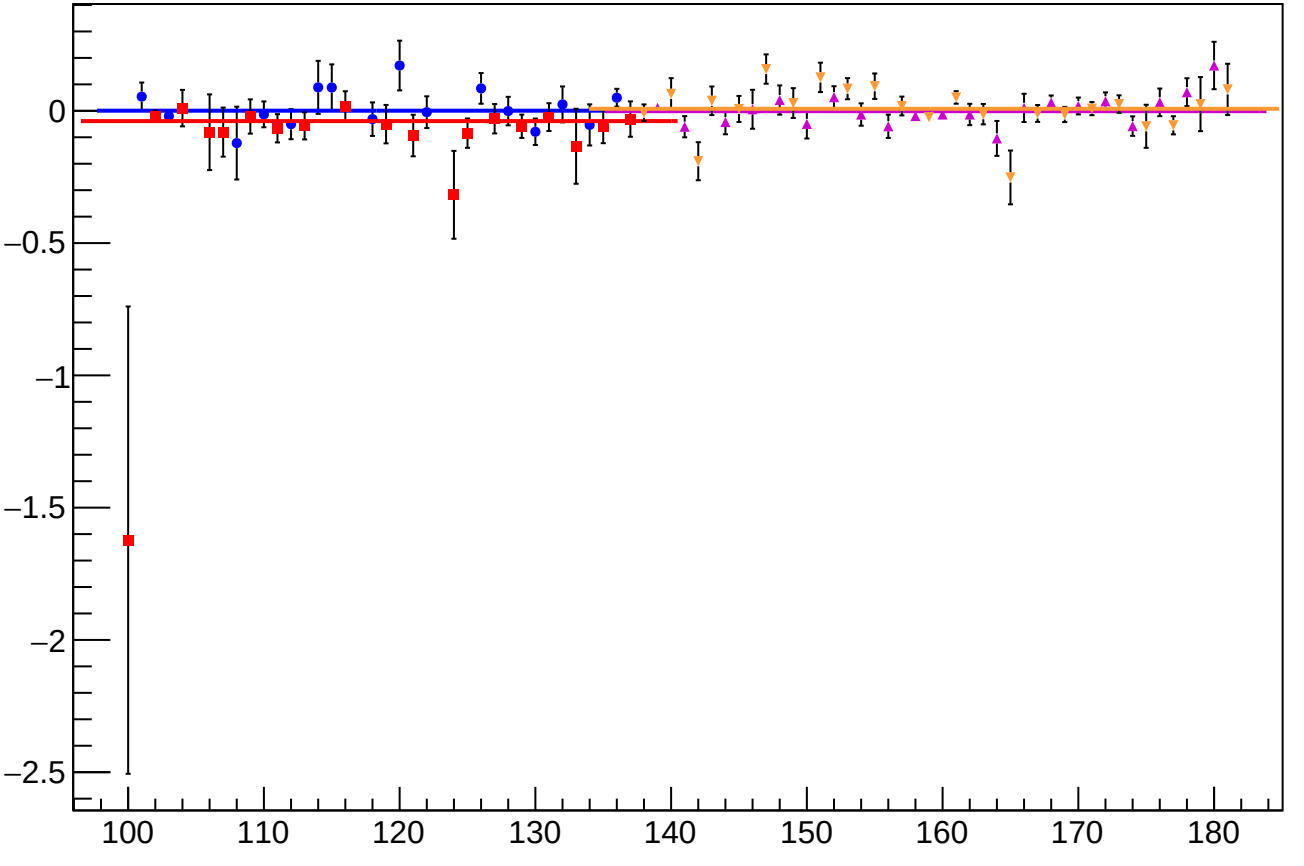
Right: 28.009+/-0.006 $\chi^2$/NDF: 4893896.0/34

In: 24.130+/-0.004 $\chi^2$/NDF:9690676.8/36

Out: 28.146+/-0.005 $\chi^2$/NDF:8414253.8/41

All: 25.950+/-0.003 $\chi^2$/NDF: 18519498.0/78

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: 0.008+/-0.008 $\chi^2$/NDF:47.4/22

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: -0.001+/-0.007 $\chi^2$/NDF:24.1/20

Left: 0.003+/-0.005 $\chi^2$/NDF: 72.3/43

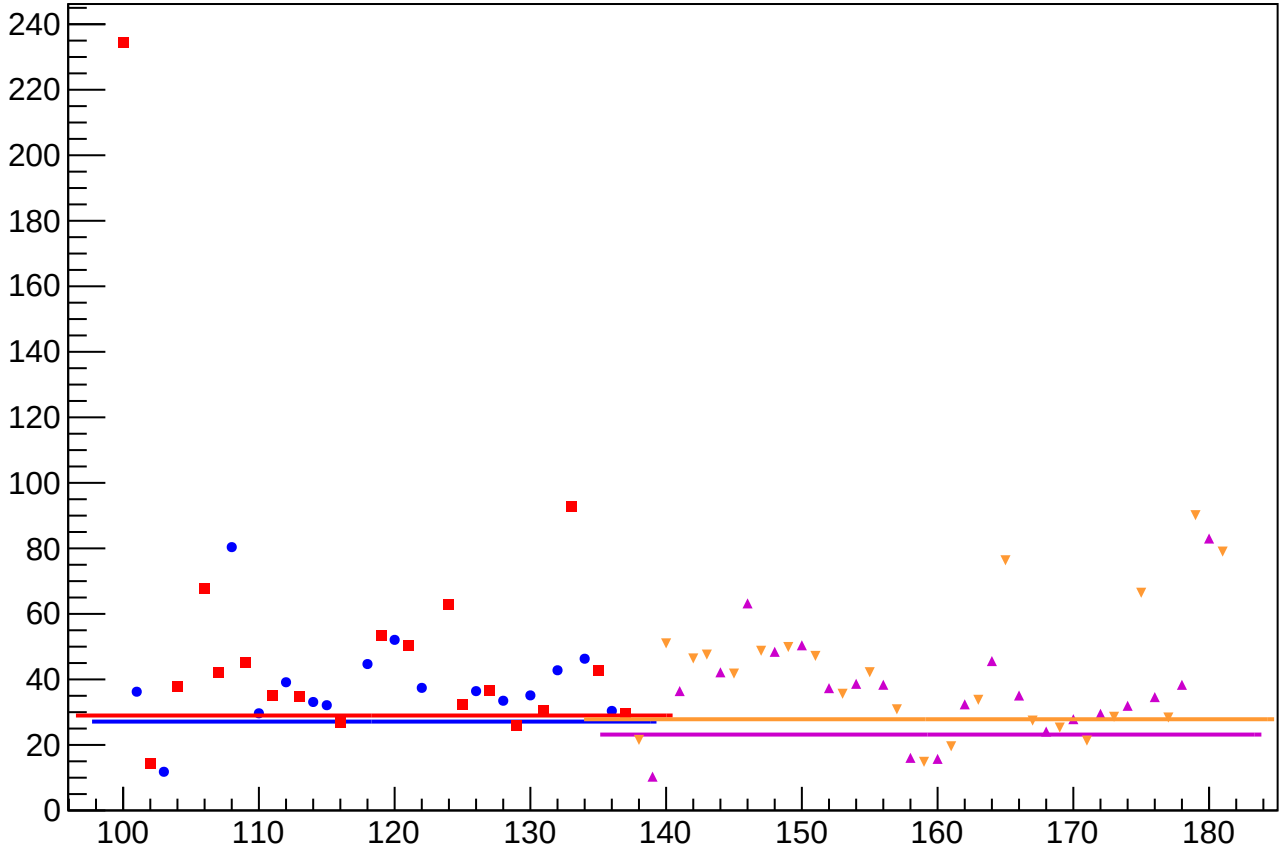
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: -0.001+/-0.006 $\chi^2$/NDF:40.6/36

Out: -0.005+/-0.007 $\chi^2$/NDF:68.5/41

All: -0.003+/-0.004 $\chi^2$/NDF: 109.2/78

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.127+/-0.009 $\chi^2$/NDF: 2415651.3/15

Left Out: 27.842+/-0.005 $\chi^2$/NDF:5946663.1/22

Right Out: 28.982+/-0.009 $\chi^2$/NDF: 2455659.1/18

Left In: 23.164+/-0.005 $\chi^2$/NDF:7110934.0/20

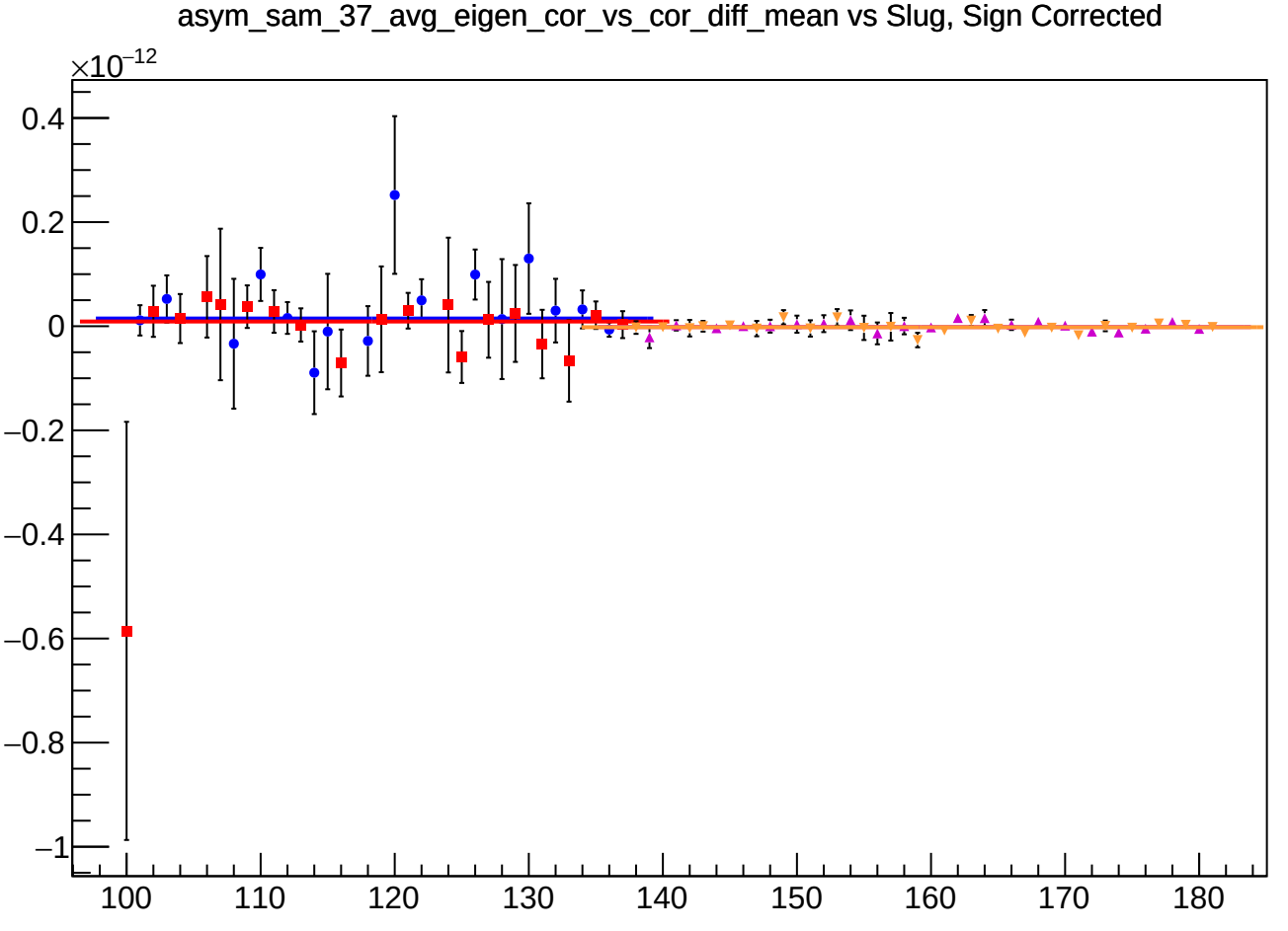
Left: 25.250+/-0.004 $\chi^2$/NDF: 13475972.9/43

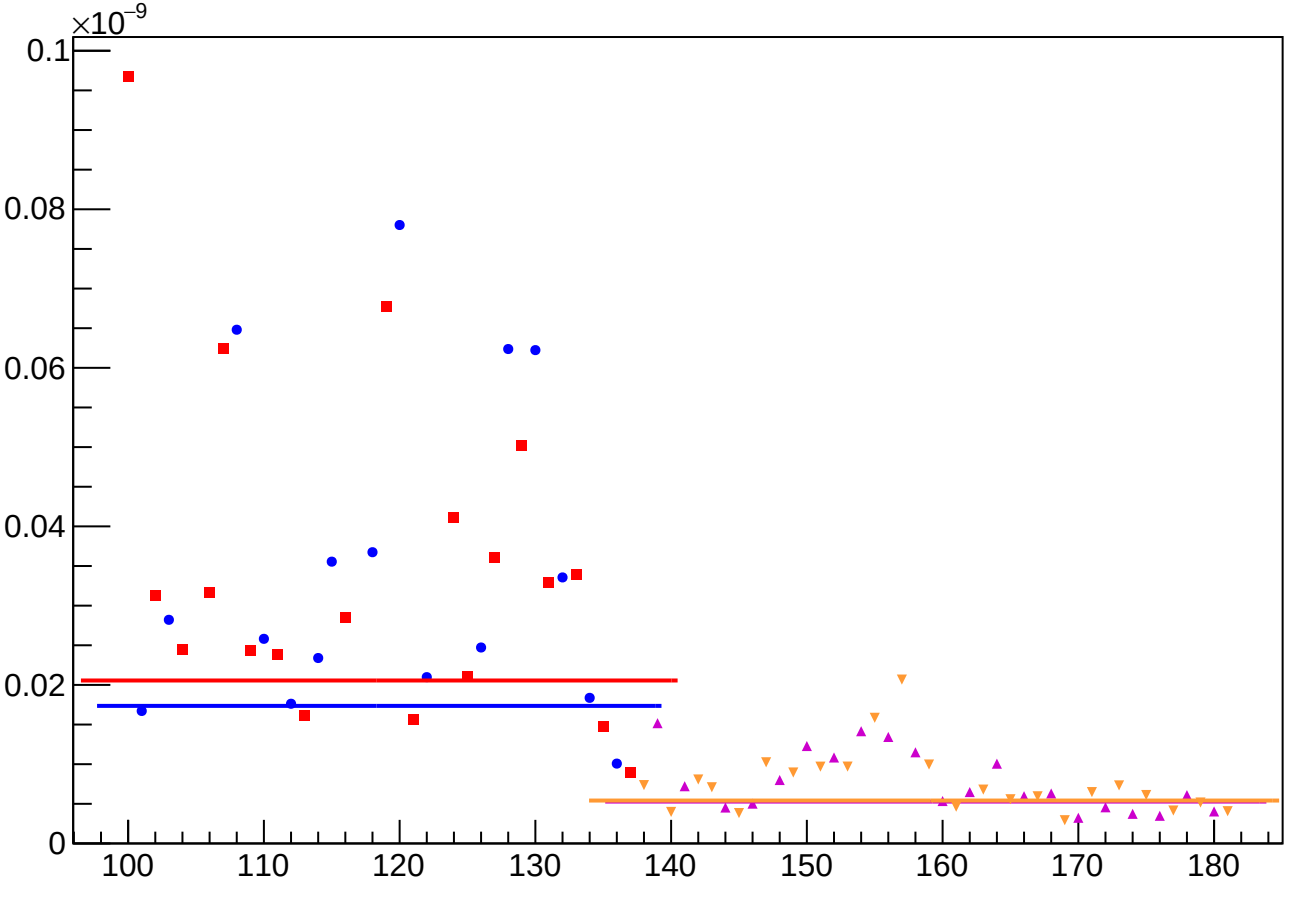
Right: 28.009+/-0.006 $\chi^2$/NDF: 4893896.0/34

In: 24.130+/-0.004 $\chi^2$/NDF:9690676.8/36

Out: 28.146+/-0.005 $\chi^2$/NDF:8414253.8/41

All: 25.950+/-0.003 $\chi^2$/NDF: 18519498.0/78


asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 15.9/15
Left Out: -0.000+/-0.000 χ²/NDF:15.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 9.0/18
Left In: -0.000+/-0.000 χ²/NDF:15.6/20
Left: -0.000+/-0.000 χ²/NDF: 31.0/43
Right: 0.000+/-0.000 χ²/NDF: 25.1/34
In: -0.000+/-0.000 χ²/NDF:34.4/36
Out: -0.000+/-0.000 χ²/NDF:25.4/41
All: -0.000+/-0.000 χ²/NDF: 59.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2442014.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3063961.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1925673.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3305120.2/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 6374030.3/43

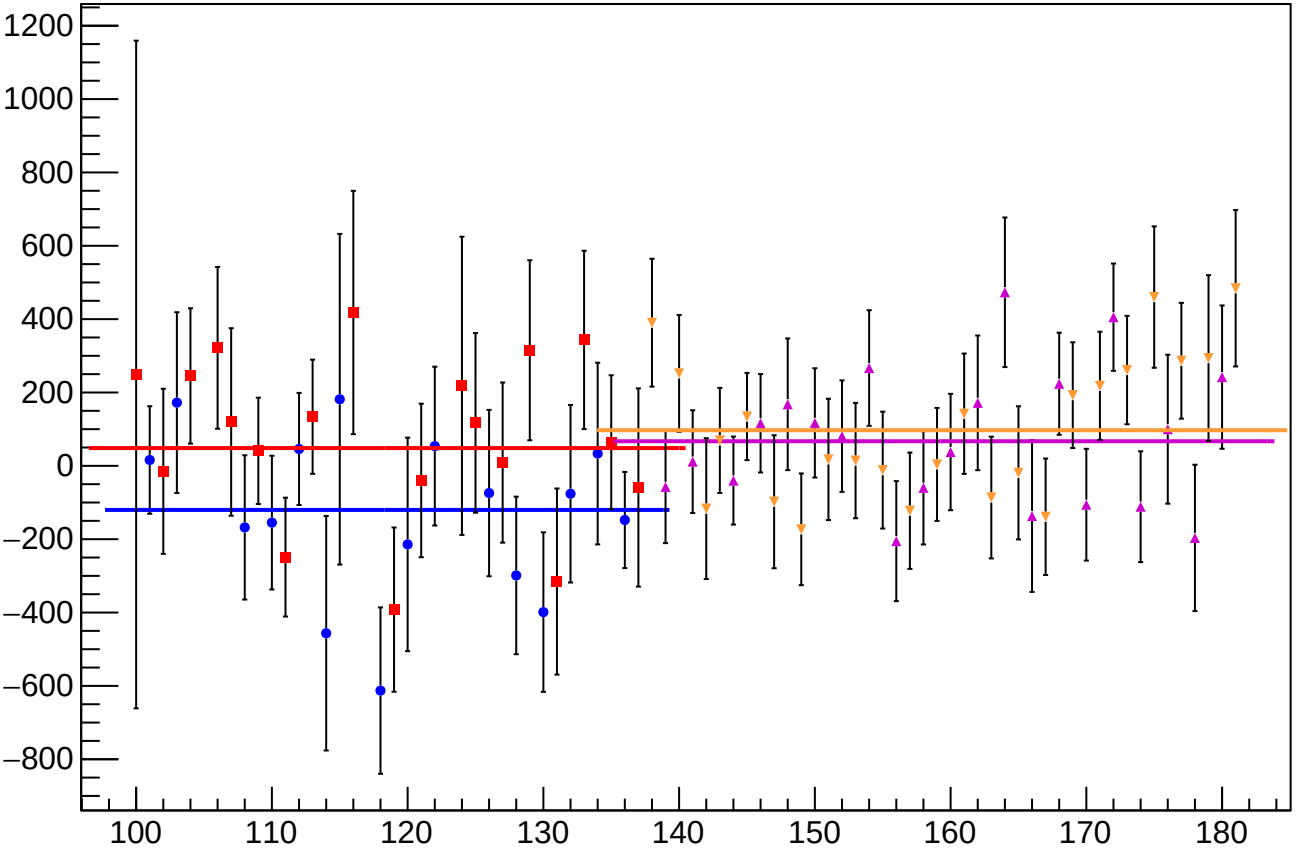
Right: 0.000+/-0.000 $\chi^2$/NDF: 4467051.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:8886366.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8790884.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 17680542.7/78

# reg_asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: -120.159+/-51.103 $\chi^2$/NDF: 13.4/15

Left Out: 97.164+/-33.656 $\chi^2$/NDF:28.0/22

Right Out: 48.449+/-49.910 $\chi^2$/NDF: 17.0/18

Left In: 67.082+/-34.605 $\chi^2$/NDF:24.4/20

Left: 82.541+/-24.127 $\chi^2$/NDF: 52.8/43

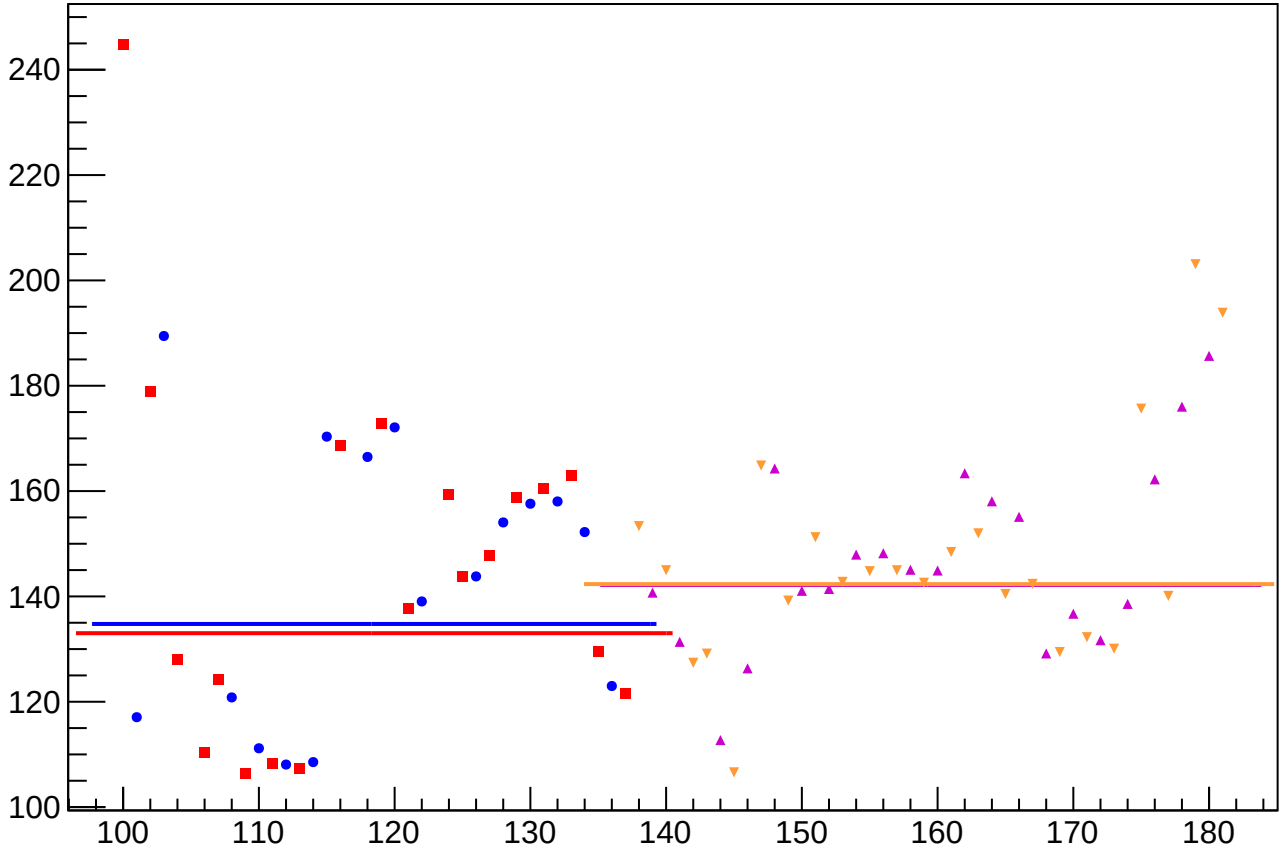
Right: -33.863+/-35.706 $\chi^2$/NDF: 36.0/34

In: 8.216+/-28.654 $\chi^2$/NDF:47.0/36

Out: 81.936+/-27.904 $\chi^2$/NDF:45.7/41

All: 46.053+/-19.991 $\chi^2$/NDF: 96.1/78

# reg_asym_sam_48_avg_rms vs Slug, Sign Corrected




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416778.7/15

Left Out: 142.336+/-0.024 $\chi^2$/NDF:627124.1/22

Right Out: 133.019+/-0.035 $\chi^2$/NDF: 495717.0/18

Left In: 142.164+/-0.024 $\chi^2$/NDF:451966.1/20

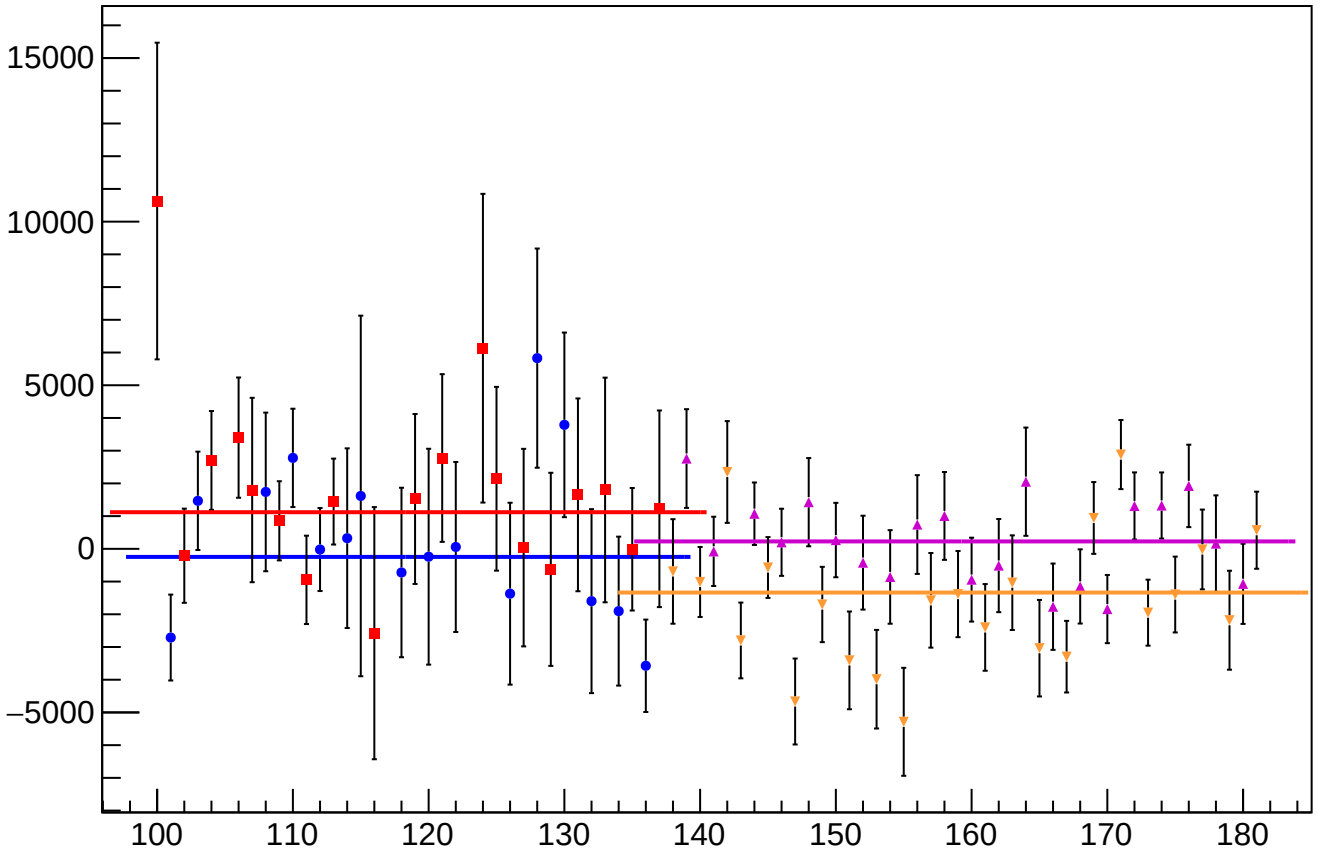
Left: 142.252+/-0.017 $\chi^2$/NDF: 1079115.5/43

Right: 133.875+/-0.025 $\chi^2$/NDF: 913698.6/34

In: 139.840+/-0.020 $\chi^2$/NDF:897443.5/36

Out: 139.423+/-0.020 $\chi^2$/NDF:1170742.7/41

All: 139.626+/-0.014 $\chi^2$/NDF: 2068403.1/78




Right In: -246.357+/-501.413 $\chi^2$/NDF: 21.6/15

Left Out: -1336.333+/-259.431 $\chi^2$/NDF:55.4/22

Right Out: 1119.420+/-468.400 $\chi^2$/NDF: 13.4/18

Left In: 226.829+/-266.343 $\chi^2$/NDF:21.0/20

Left: -575.299+/-185.841 $\chi^2$/NDF: 94.1/43

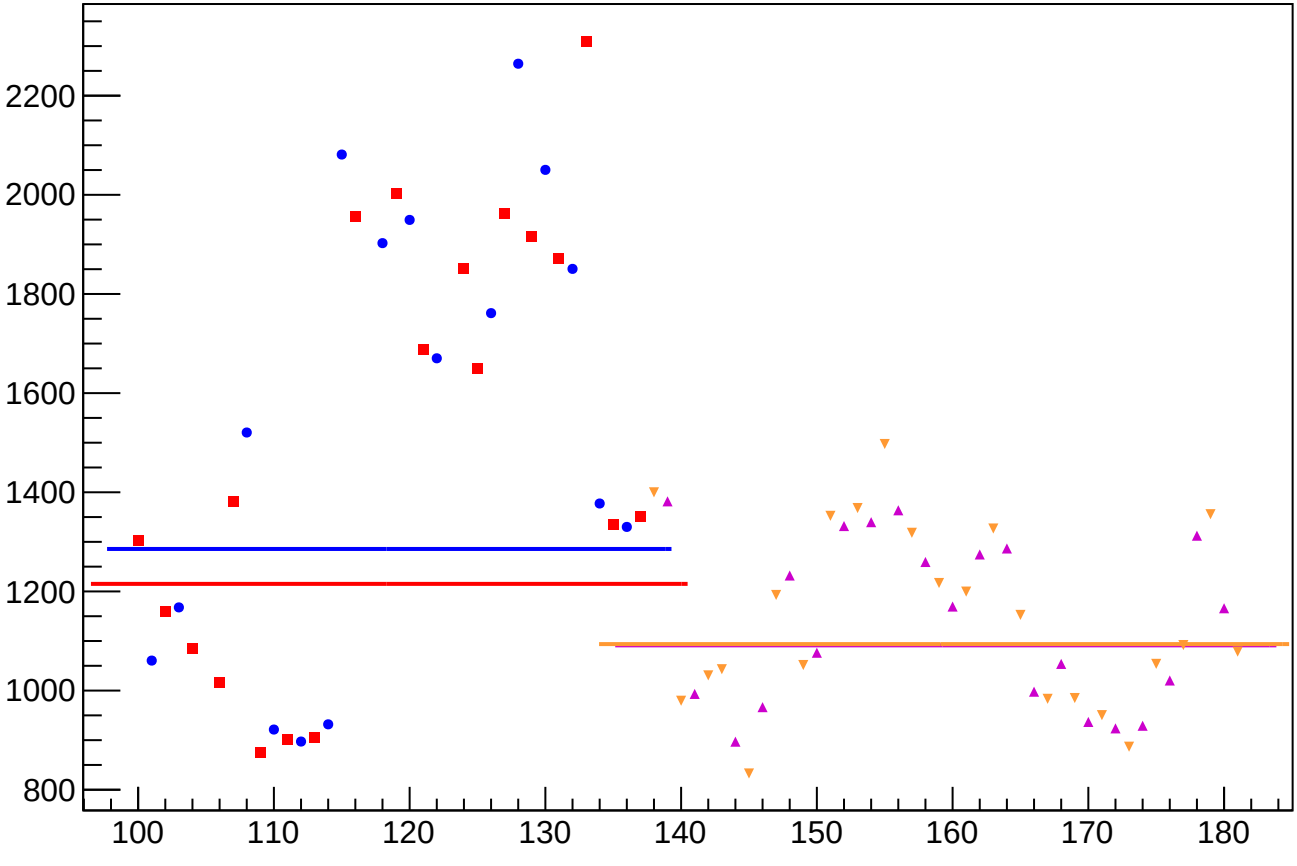
Right: 482.970+/-342.285 $\chi^2$/NDF: 39.0/34

In: 122.698+/-235.218 $\chi^2$/NDF:43.3/36

Out: -759.837+/-226.946 $\chi^2$/NDF:89.9/41

All: -334.361+/-163.321 $\chi^2$/NDF: 140.4/78

asym_sam_48_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1285.668+/-0.355 $\chi^2$/NDF: 1170437.4/15

Left Out: 1093.776+/-0.183 $\chi^2$/NDF:878677.0/22

Right Out: 1215.237+/-0.331 $\chi^2$/NDF: 1386290.4/18

Left In: 1091.234+/-0.188 $\chi^2$/NDF:727242.0/20

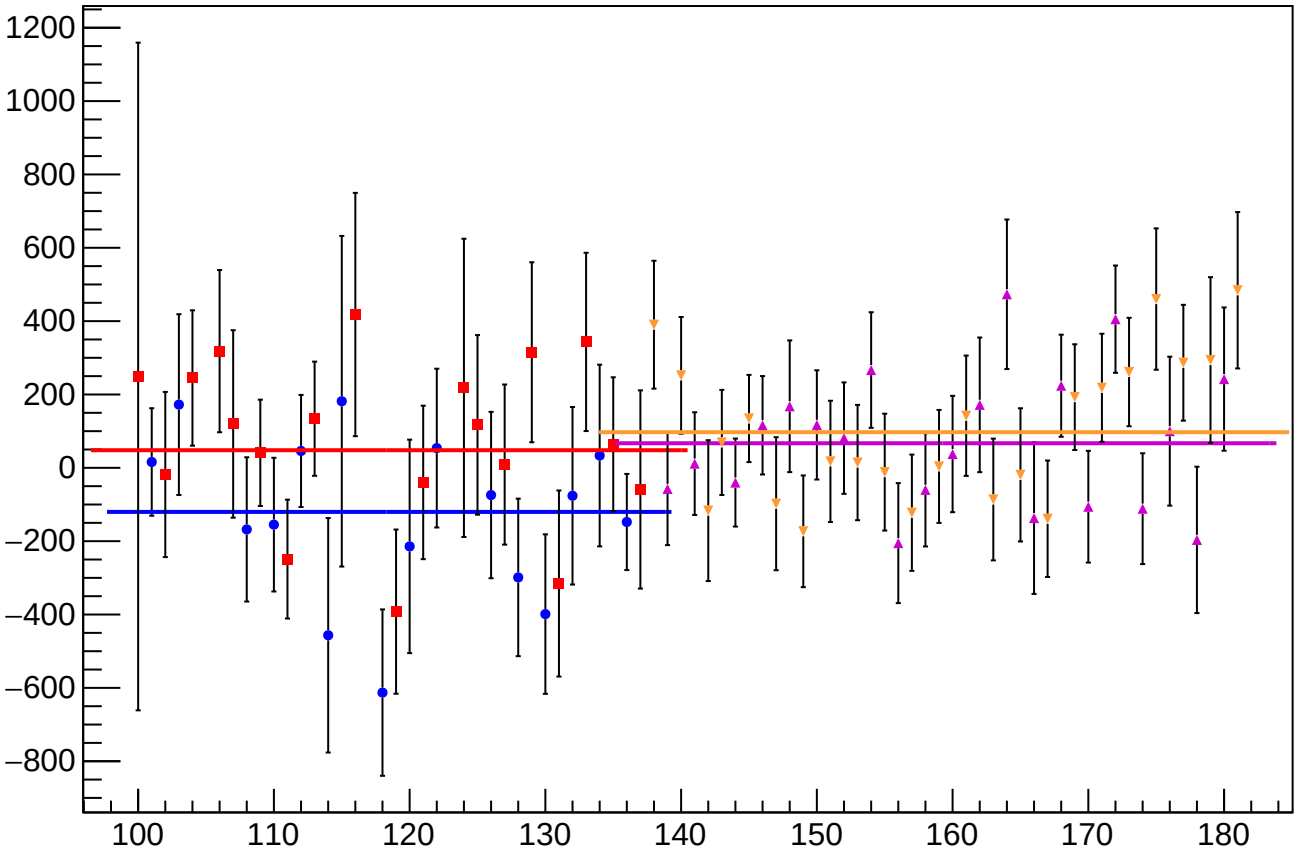
Left: 1092.538+/-0.131 $\chi^2$/NDF: 1606012.4/43

Right: 1248.058+/-0.242 $\chi^2$/NDF: 2577799.9/34

In: 1134.022+/-0.166 $\chi^2$/NDF:2132233.3/36

Out: 1122.289+/-0.160 $\chi^2$/NDF:2367881.6/41

All: 1127.946+/-0.115 $\chi^2$/NDF: 4502692.0/78




Right In: -120.169+/-51.103 $\chi^2$/NDF: 13.4/15

Left Out: 97.172+/-33.656 $\chi^2$/NDF:28.0/22

Right Out: 48.013+/-49.919 $\chi^2$/NDF: 17.0/18

Left In: 67.083+/-34.605 $\chi^2$/NDF:24.4/20

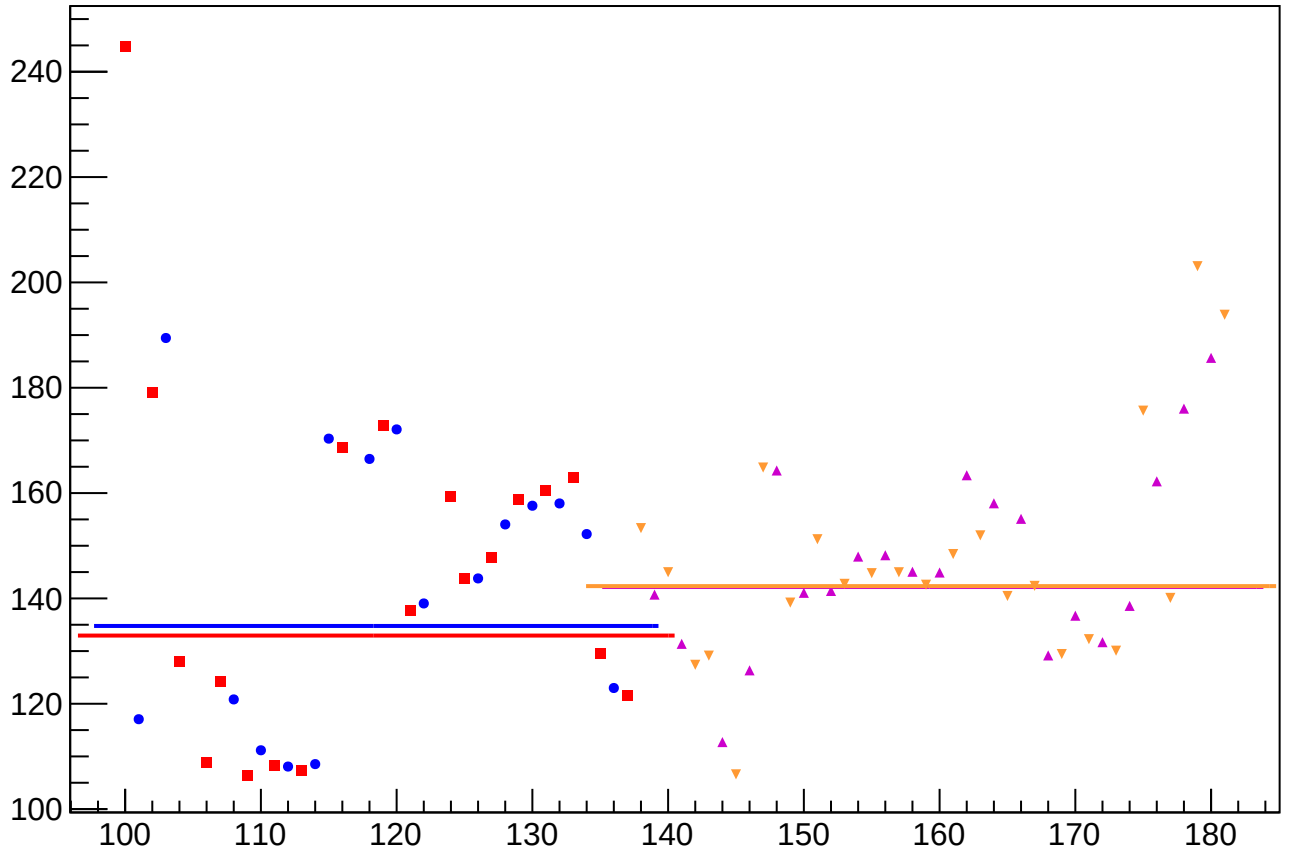
Left: 82.546+/-24.127 $\chi^2$/NDF: 52.8/43

Right: -34.107+/-35.709 $\chi^2$/NDF: 35.9/34

In: 8.213+/-28.654 $\chi^2$/NDF:47.0/36

Out: 81.809+/-27.906 $\chi^2$/NDF:45.6/41

All: 45.984+/-19.992 $\chi^2$/NDF: 96.1/78




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416781.8/15

Left Out: 142.336+/-0.024 $\chi^2$/NDF:627124.2/22

Right Out: 132.947+/-0.035 $\chi^2$/NDF: 498850.6/18

Left In: 142.164+/-0.024 $\chi^2$/NDF:451966.2/20

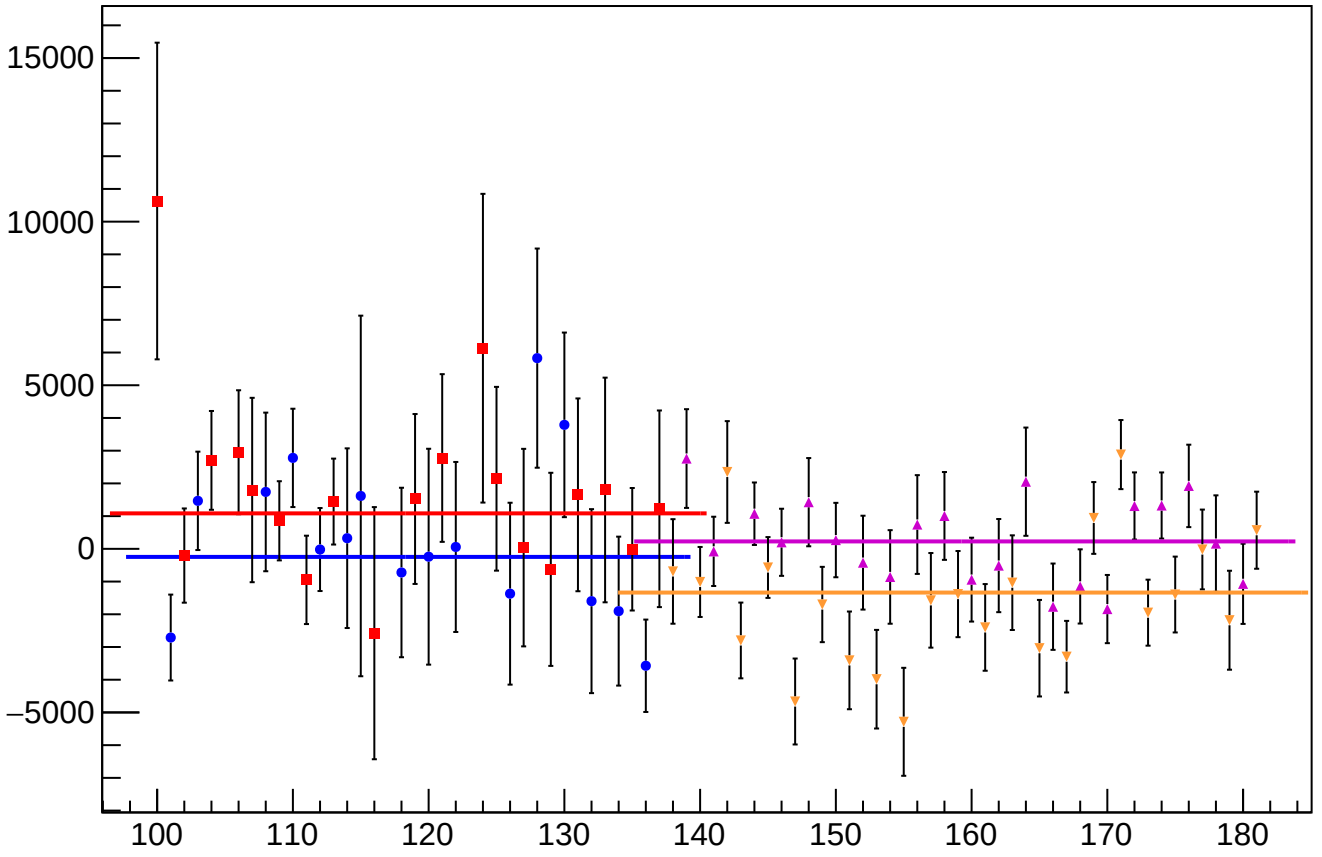
Left: 142.252+/-0.017 $\chi^2$/NDF: 1079115.5/43

Right: 133.838+/-0.025 $\chi^2$/NDF: 916936.5/34

In: 139.840+/-0.020 $\chi^2$/NDF:897446.4/36

Out: 139.402+/-0.020 $\chi^2$/NDF:1174611.3/41

All: 139.615+/-0.014 $\chi^2$/NDF: 2072298.0/78




Right In: -246.428+/-501.418 $\chi^2$/NDF: 21.6/15

Left Out: -1336.324+/-259.431 $\chi^2$/NDF:55.4/22

Right Out: 1084.094+/-469.323 $\chi^2$/NDF: 12.8/18

Left In: 226.832+/-266.343 $\chi^2$/NDF:21.0/20

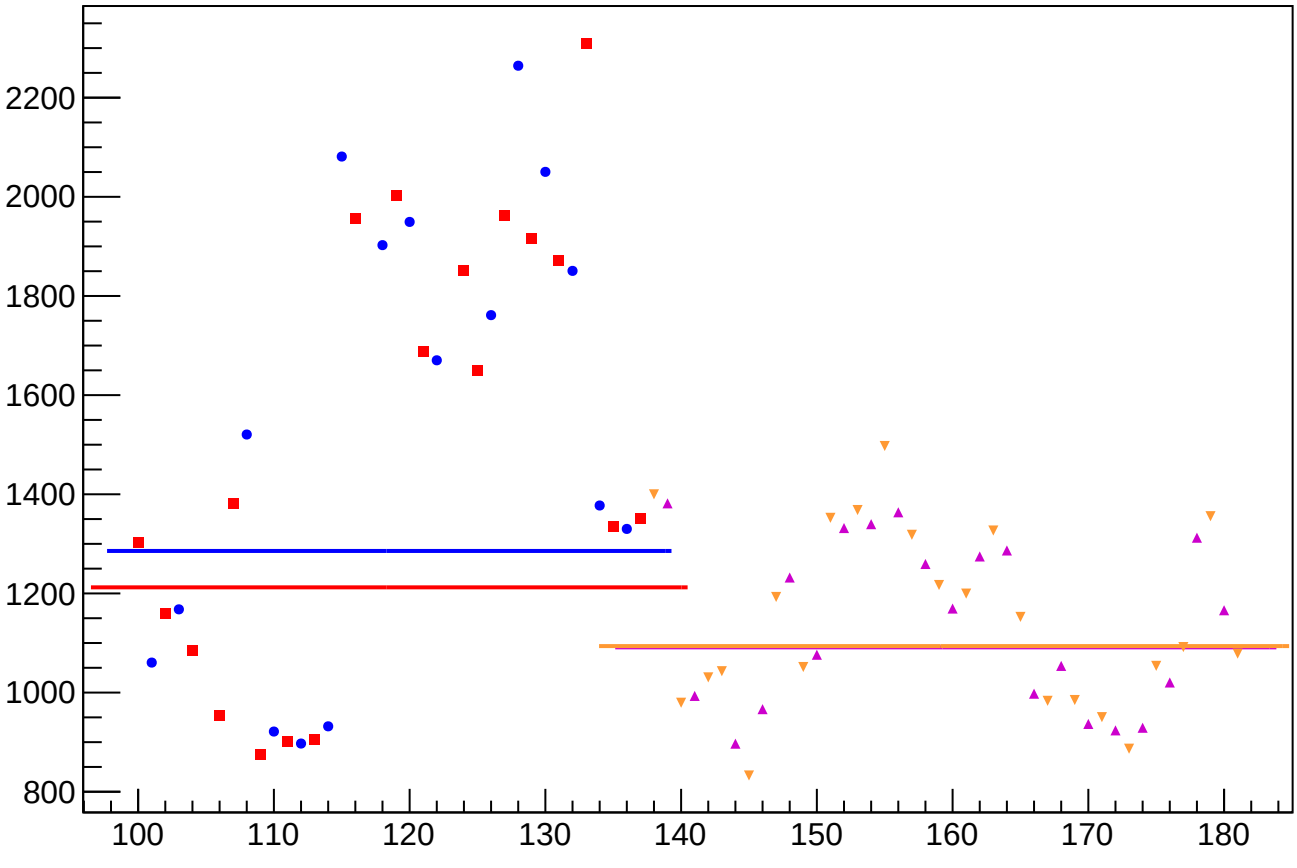
Left: -575.294+/-185.841 $\chi^2$/NDF: 94.1/43

Right: 462.775+/-342.647 $\chi^2$/NDF: 38.1/34

In: 122.686+/-235.219 $\chi^2$/NDF:43.3/36

Out: -769.835+/-227.051 $\chi^2$/NDF:88.6/41

All: -339.340+/-163.360 $\chi^2$/NDF: 139.3/78




Right In: 1285.682+/-0.355 $\chi^2$/NDF: 1170412.5/15

Left Out: 1093.775+/-0.183 $\chi^2$/NDF:878677.6/22

Right Out: 1212.276+/-0.332 $\chi^2$/NDF: 1400635.5/18

Left In: 1091.234+/-0.188 $\chi^2$/NDF:727242.5/20

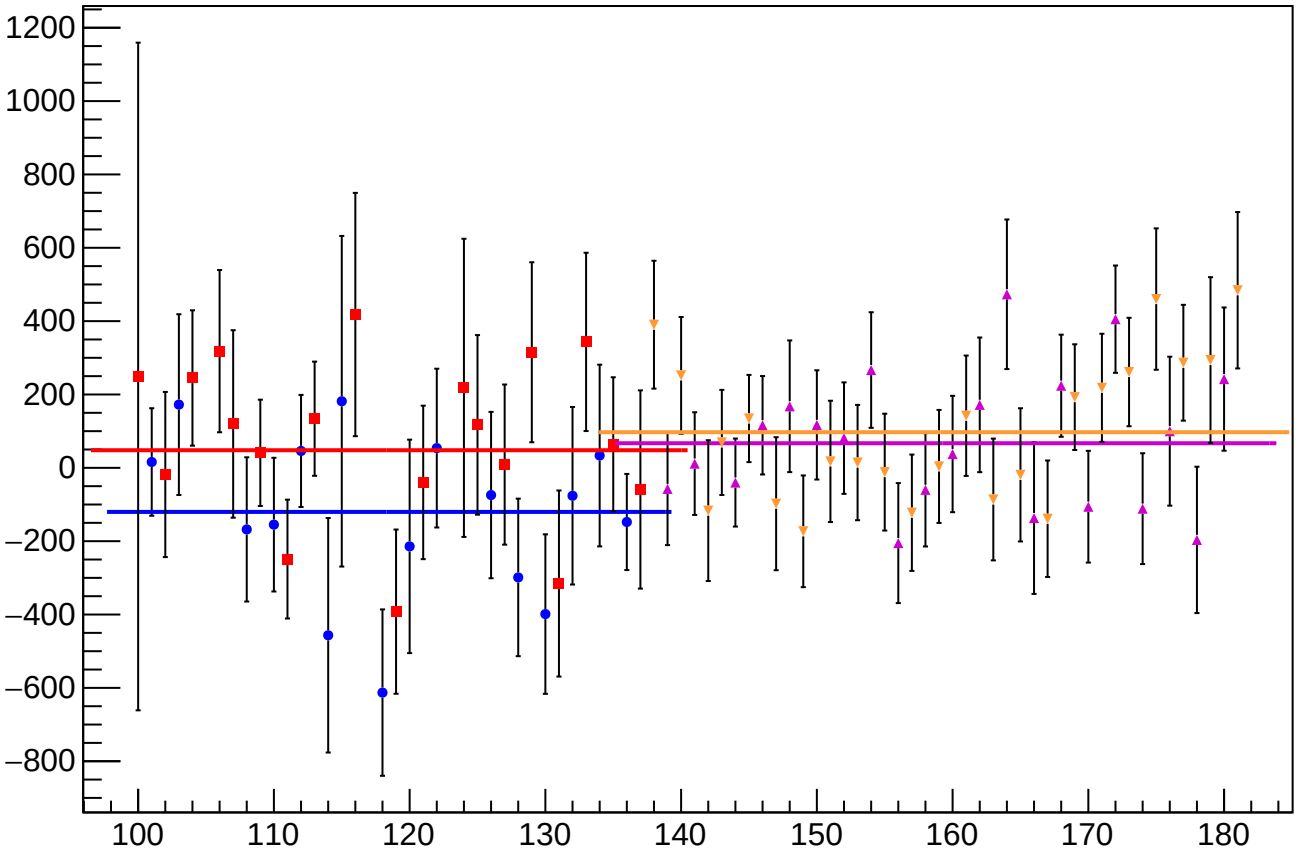
Left: 1092.538+/-0.131 $\chi^2$/NDF: 1606013.5/43

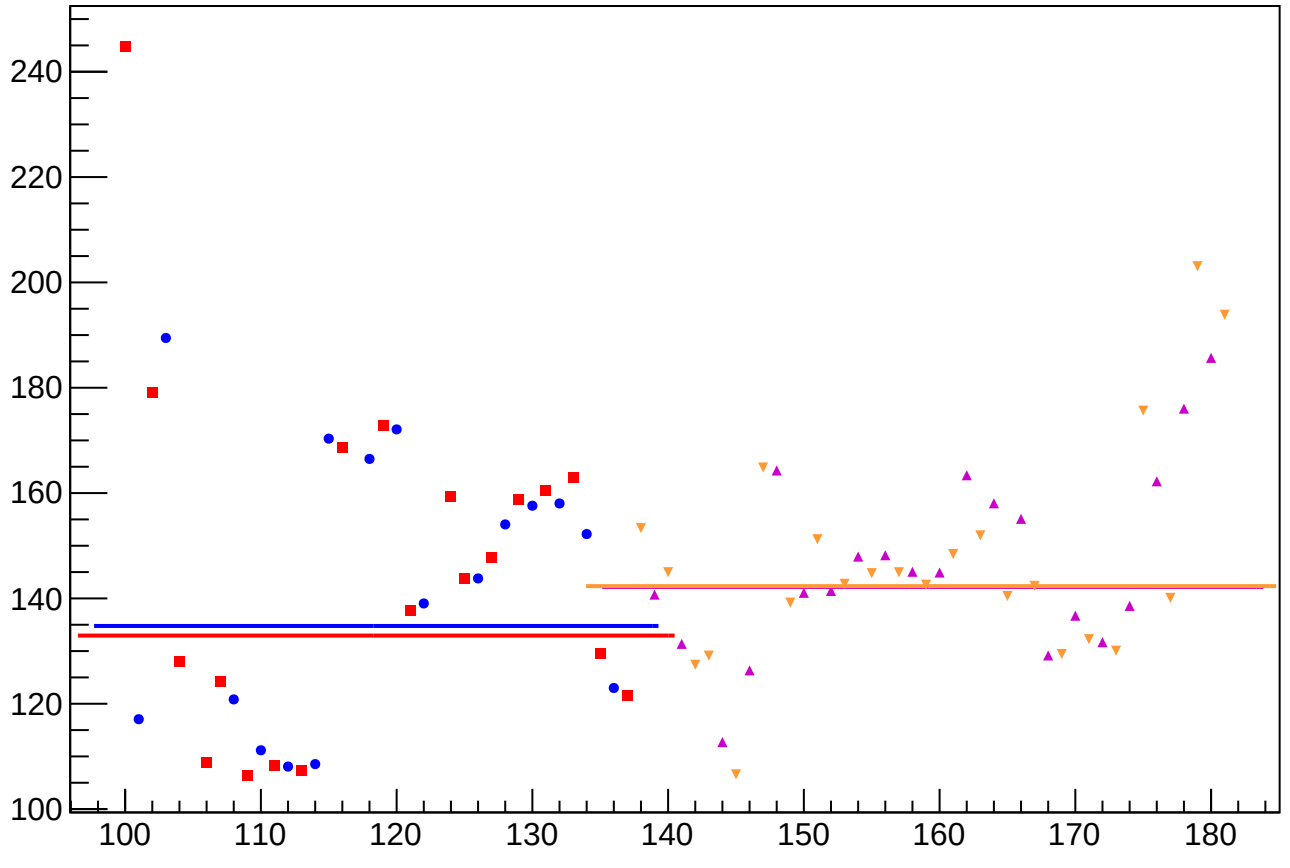
Right: 1246.554+/-0.242 $\chi^2$/NDF: 2593895.7/34

In: 1134.024+/-0.166 $\chi^2$/NDF:2132237.7/36

Out: 1121.510+/-0.161 $\chi^2$/NDF:2376975.1/41

All: 1127.546+/-0.116 $\chi^2$/NDF: 4512143.4/78


eigen_cor_asym_sam_48_avg_mean vs Slug, Sign Corrected
1200
1000
800
600
400
200
0
−200
−400
−600
−800
100
110
120
130
140
150
160
170
180
Right In: -120.169+/-51.103 χ²/NDF: 13.4/15
Left Out: 97.172+/-33.656 χ²/NDF:28.0/22
Right Out: 48.013+/-49.919 χ²/NDF: 17.0/18
Left In: 67.083+/-34.605 χ²/NDF:24.4/20
Left: 82.546+/-24.127 χ²/NDF: 52.8/43
Right: -34.107+/-35.709 χ²/NDF: 35.9/34
In: 8.213+/-28.654 χ²/NDF:47.0/36
Out: 81.809+/-27.906 χ²/NDF:45.6/41
All: 45.984+/-19.992 χ²/NDF: 96.1/78




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416781.8/15

Left Out: 142.336+/-0.024 $\chi^2$/NDF:627124.2/22

Right Out: 132.947+/-0.035 $\chi^2$/NDF: 498850.6/18

Left In: 142.164+/-0.024 $\chi^2$/NDF:451966.2/20

Left: 142.252+/-0.017 $\chi^2$/NDF: 1079115.5/43

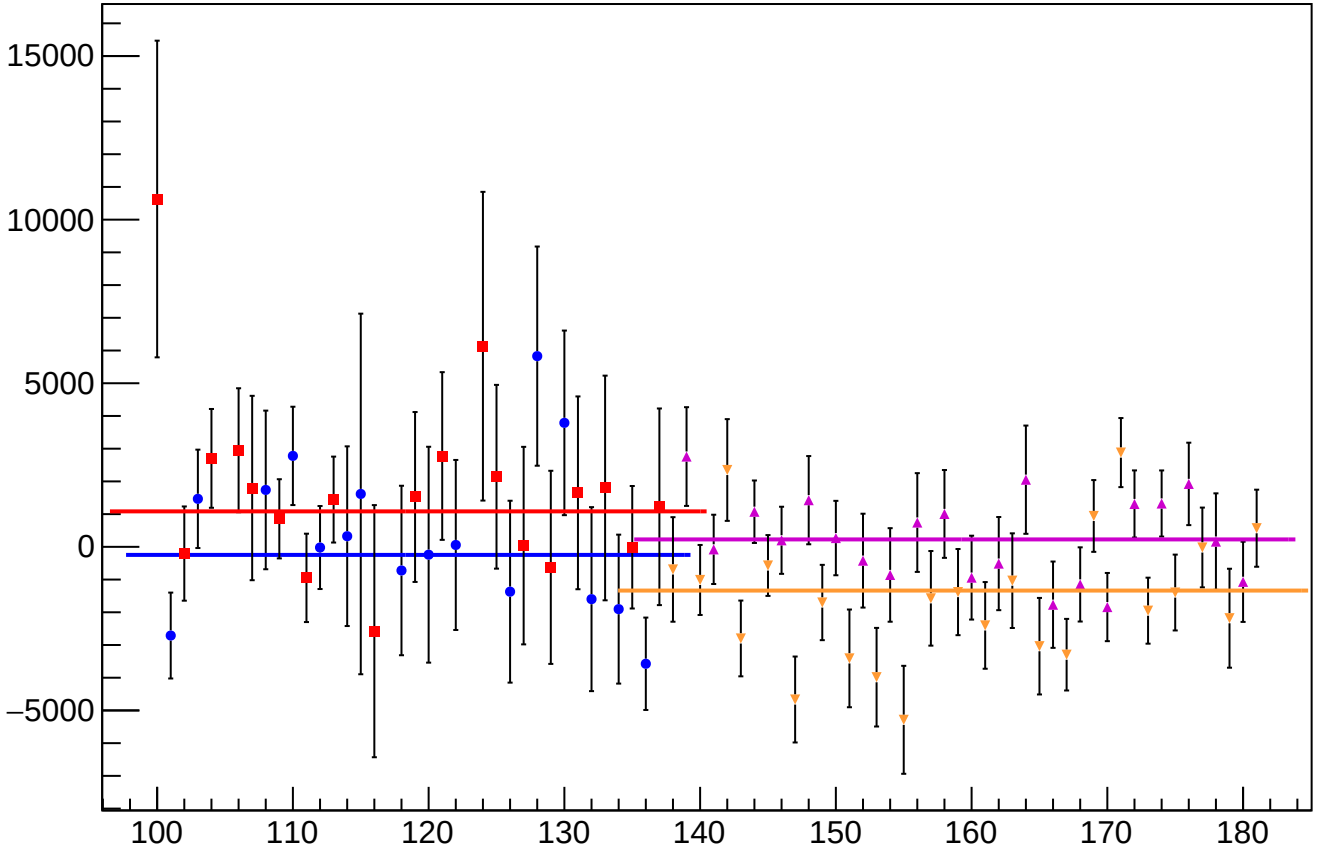
Right: 133.838+/-0.025 $\chi^2$/NDF: 916936.5/34

In: 139.840+/-0.020 $\chi^2$/NDF:897446.4/36

Out: 139.402+/-0.020 $\chi^2$/NDF:1174611.3/41

All: 139.615+/-0.014 $\chi^2$/NDF: 2072298.0/78

asym_sam_48_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -246.428+/-501.418 $\chi^2$/NDF: 21.6/15

Left Out: -1336.324+/-259.431 $\chi^2$/NDF:55.4/22

Right Out: 1084.094+/-469.323 $\chi^2$/NDF: 12.8/18

Left In: 226.832+/-266.343 $\chi^2$/NDF:21.0/20

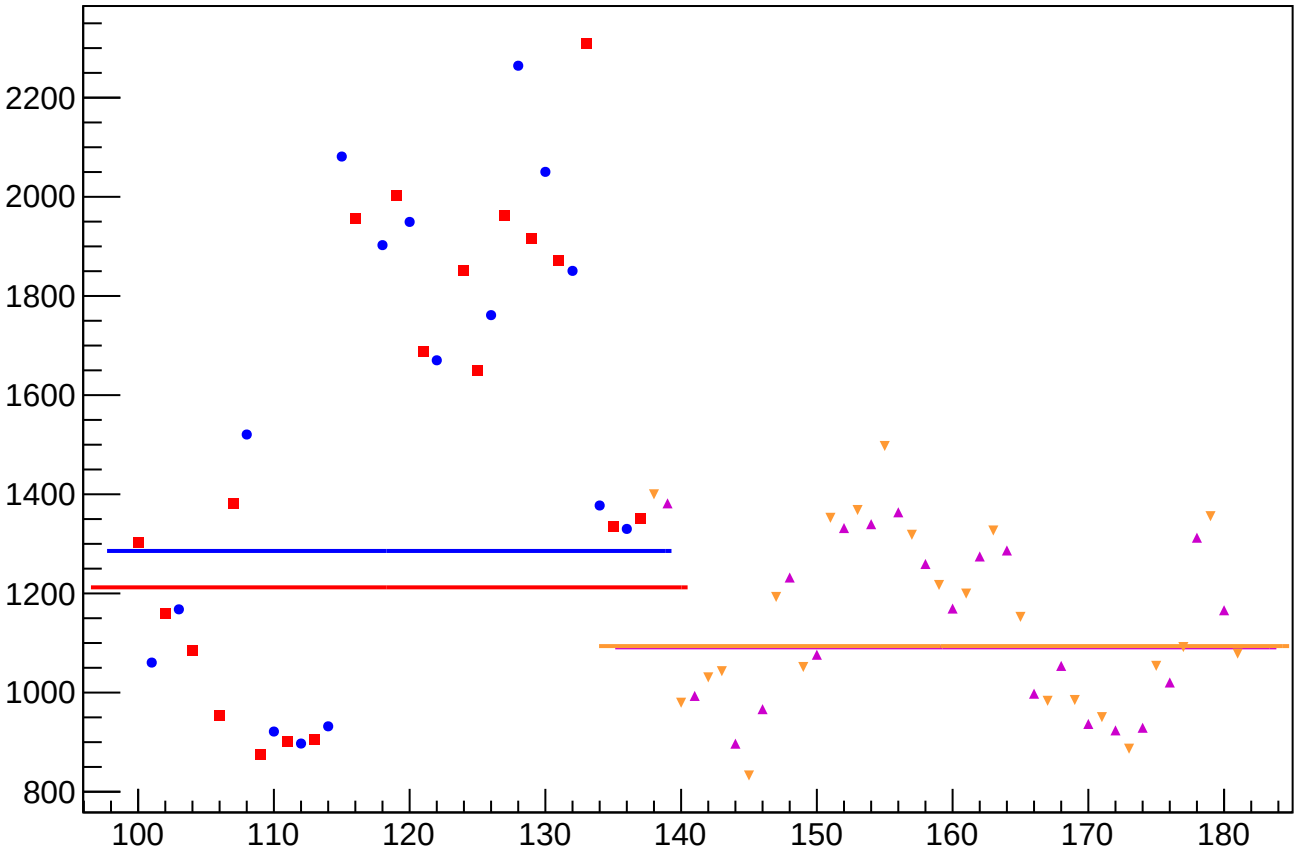
Left: -575.294+/-185.841 $\chi^2$/NDF: 94.1/43

Right: 462.775+/-342.647 $\chi^2$/NDF: 38.1/34

In: 122.686+/-235.219 $\chi^2$/NDF:43.3/36

Out: -769.835+/-227.051 $\chi^2$/NDF:88.6/41

All: -339.340+/-163.360 $\chi^2$/NDF: 139.3/78




Right In: 1285.682+/-0.355 $\chi^2$/NDF: 1170412.5/15

Left Out: 1093.775+/-0.183 $\chi^2$/NDF:878677.6/22

Right Out: 1212.276+/-0.332 $\chi^2$/NDF: 1400635.5/18

Left In: 1091.234+/-0.188 $\chi^2$/NDF:727242.5/20

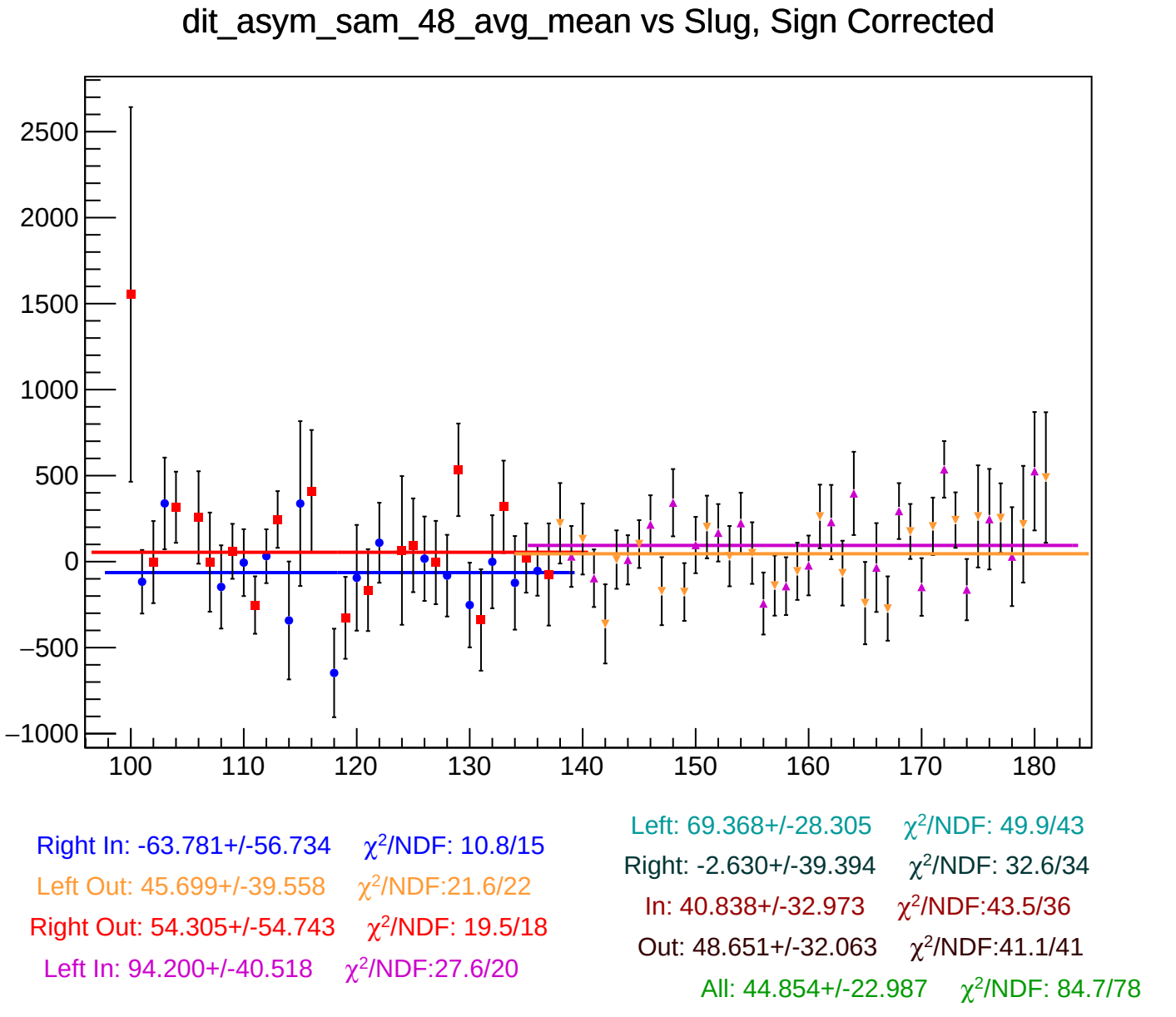
Left: 1092.538+/-0.131 $\chi^2$/NDF: 1606013.5/43

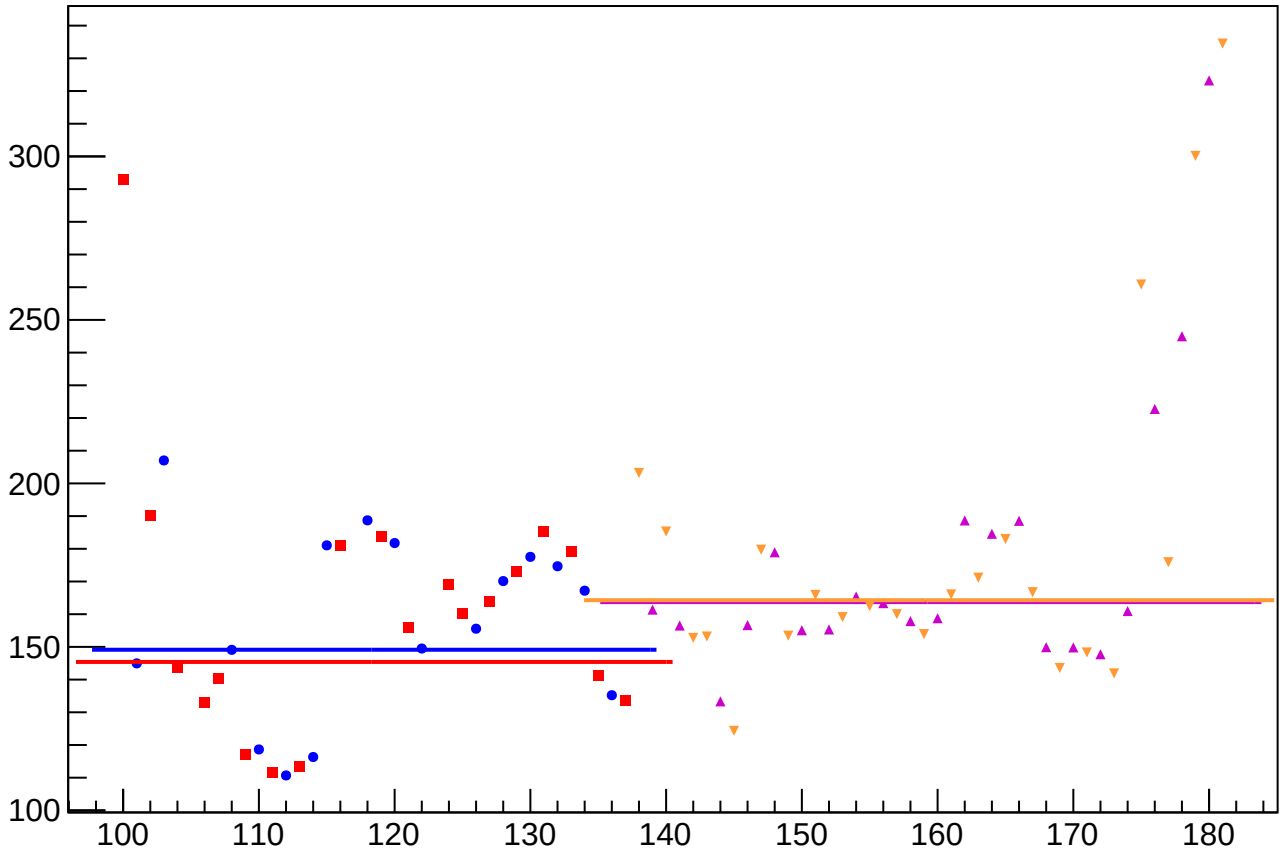
Right: 1246.554+/-0.242 $\chi^2$/NDF: 2593895.7/34

In: 1134.024+/-0.166 $\chi^2$/NDF:2132237.7/36

Out: 1121.510+/-0.161 $\chi^2$/NDF:2376975.1/41

All: 1127.546+/-0.116 $\chi^2$/NDF: 4512143.4/78


dit_asym_sam_48_avg_mean vs Slug, Sign Corrected
2500
2000
1500
1000
500
0
−500
−1000
100
110
120
130
140
150
160
170
180
Right In: -63.781+/-56.734 χ²/NDF: 10.8/15
Left Out: 45.699+/-39.558 χ²/NDF:21.6/22
Right Out: 54.305+/-54.743 χ²/NDF: 19.5/18
Left In: 94.200+/-40.518 χ²/NDF:27.6/20
Left: 69.368+/-28.305 χ²/NDF: 49.9/43
Right: -2.630+/-39.394 χ²/NDF: 32.6/34
In: 40.838+/-32.973 χ²/NDF:43.5/36
Out: 48.651+/-32.063 χ²/NDF:41.1/41
All: 44.854+/-22.987 χ²/NDF: 84.7/78




Right In: 149.130+/-0.040 $\chi^2$/NDF: 451003.6/15

Left Out: 164.277+/-0.028 $\chi^2$/NDF:1333561.1/22

Right Out: 145.399+/-0.039 $\chi^2$/NDF: 525820.0/18

Left In: 163.697+/-0.029 $\chi^2$/NDF:902848.1/20

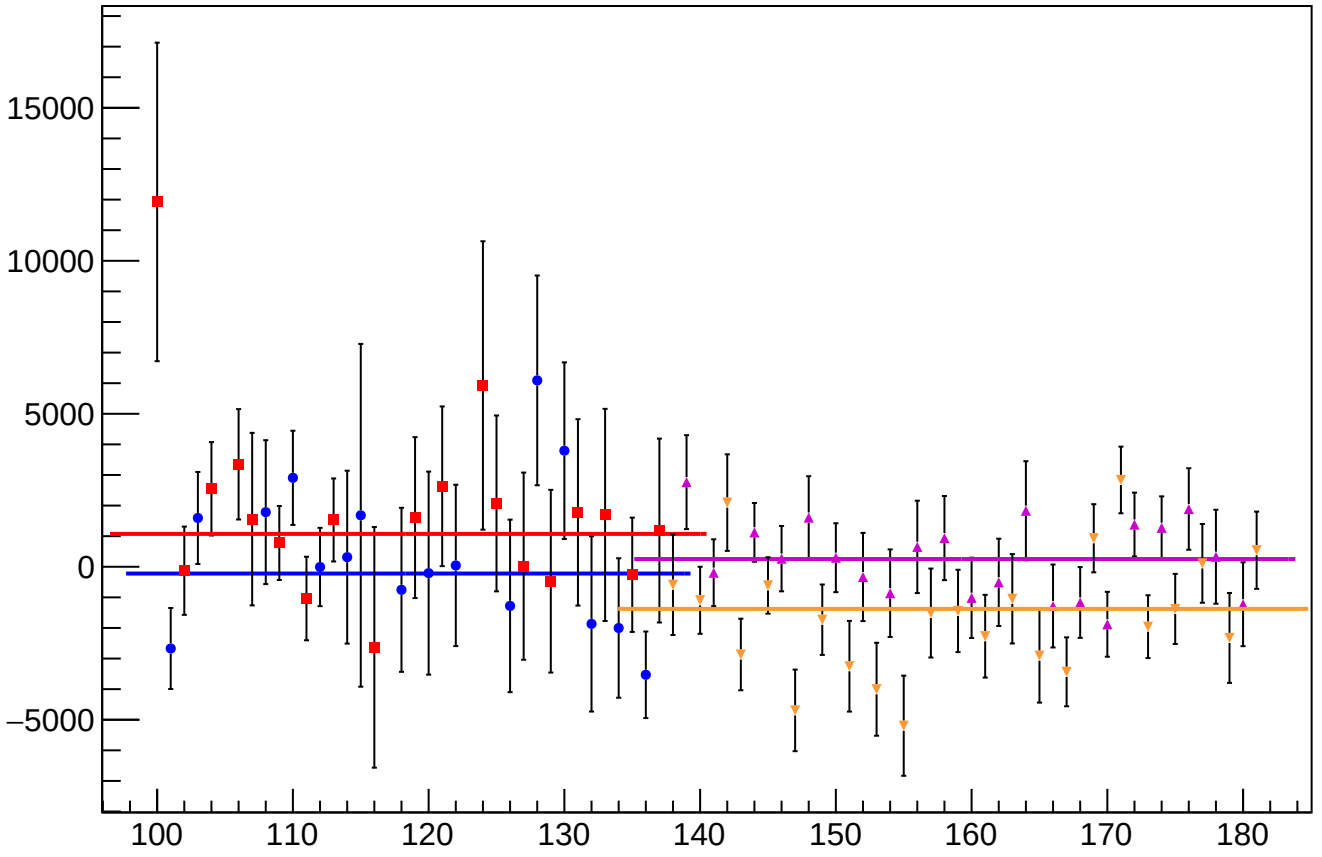
Left: 163.994+/-0.020 $\chi^2$/NDF: 2236618.5/43

Right: 147.198+/-0.028 $\chi^2$/NDF: 981303.1/34

In: 158.777+/-0.023 $\chi^2$/NDF:1441168.2/36

Out: 157.801+/-0.023 $\chi^2$/NDF:2015624.9/41

All: 158.275+/-0.016 $\chi^2$/NDF: 3457694.0/78




Right In: -221.240+/-506.202 $\chi^2$/NDF: 21.9/15

Left Out: -1376.778+/-263.533 $\chi^2$/NDF:52.2/22

Right Out: 1074.433+/-472.816 $\chi^2$/NDF: 13.6/18

Left In: 252.503+/-272.040 $\chi^2$/NDF:19.6/20

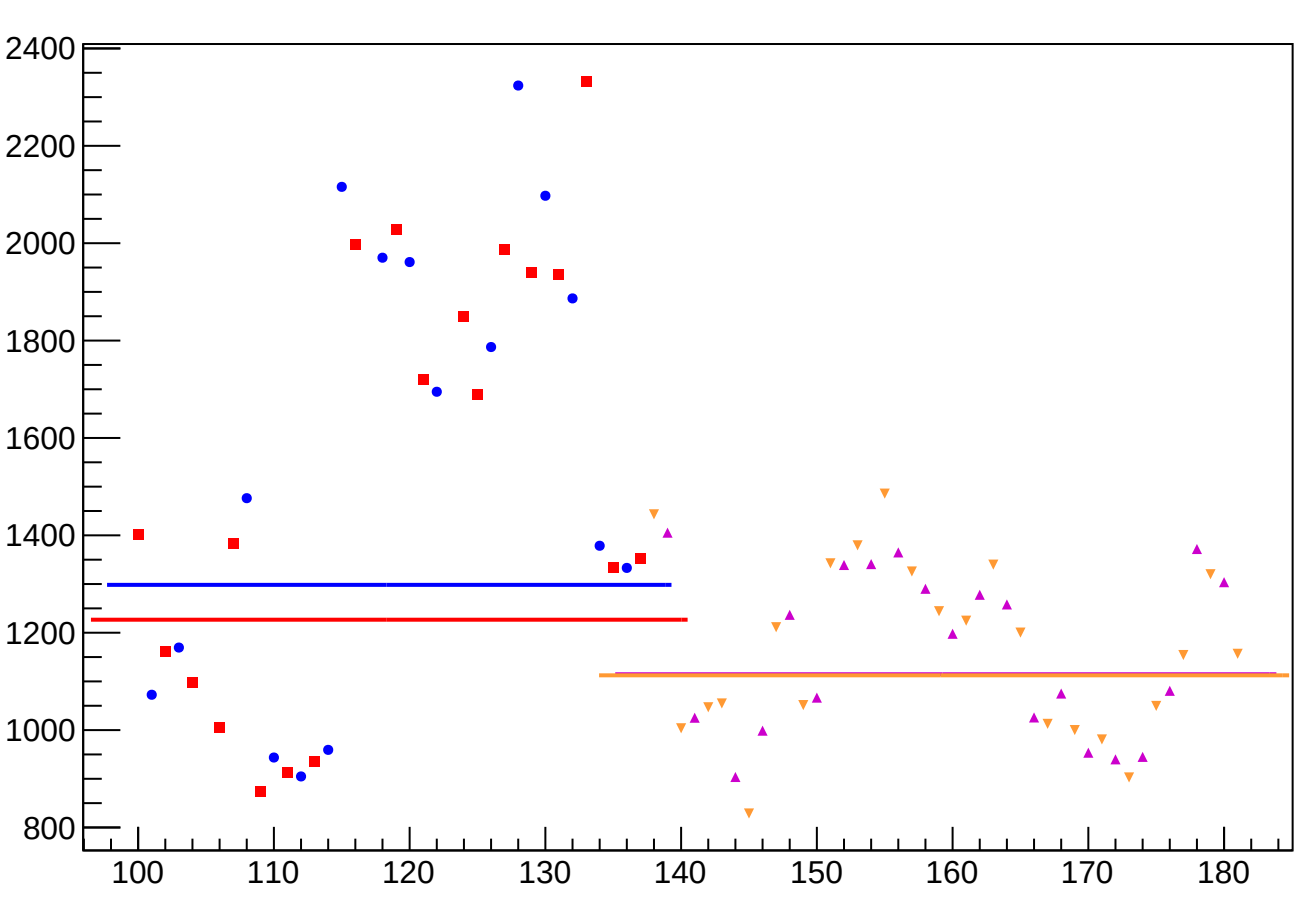
Left: -588.007+/-189.282 $\chi^2$/NDF: 90.3/43

Right: 470.729+/-345.532 $\chi^2$/NDF: 39.0/34

In: 146.341+/-239.628 $\chi^2$/NDF:42.1/36

Out: -795.777+/-230.192 $\chi^2$/NDF:86.4/41

All: -343.631+/-166.006 $\chi^2$/NDF: 136.5/78




Right In: 1298.293+/-0.358 $\chi^2$/NDF: 1182123.0/15

Left Out: 1112.501+/-0.186 $\chi^2$/NDF:859075.2/22

Right Out: 1226.729+/-0.334 $\chi^2$/NDF: 1404521.7/18

Left In: 1114.729+/-0.192 $\chi^2$/NDF:724056.4/20

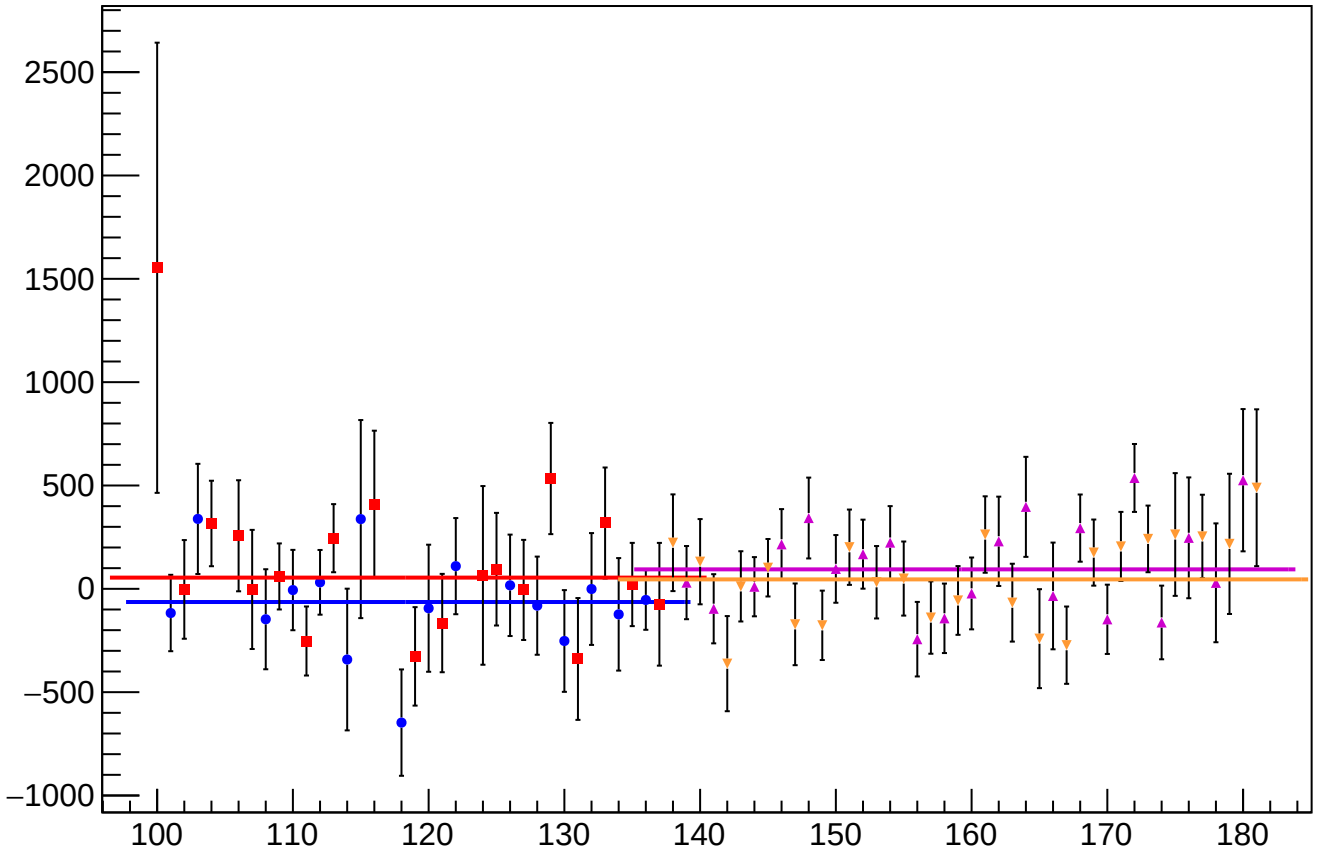
Left: 1113.580+/-0.134 $\chi^2$/NDF: 1583200.7/43

Right: 1260.073+/-0.244 $\chi^2$/NDF: 2607993.3/34

In: 1155.865+/-0.169 $\chi^2$/NDF:2110243.6/36

Out: 1139.576+/-0.163 $\chi^2$/NDF:2352658.9/41

All: 1147.393+/-0.117 $\chi^2$/NDF: 4467708.3/78




Right In: -63.778+/-56.734 $\chi^2$/NDF: 10.8/15

Left Out: 45.701+/-39.558 $\chi^2$/NDF:21.6/22

Right Out: 54.304+/-54.743 $\chi^2$/NDF: 19.5/18

Left In: 94.200+/-40.518 $\chi^2$/NDF:27.6/20

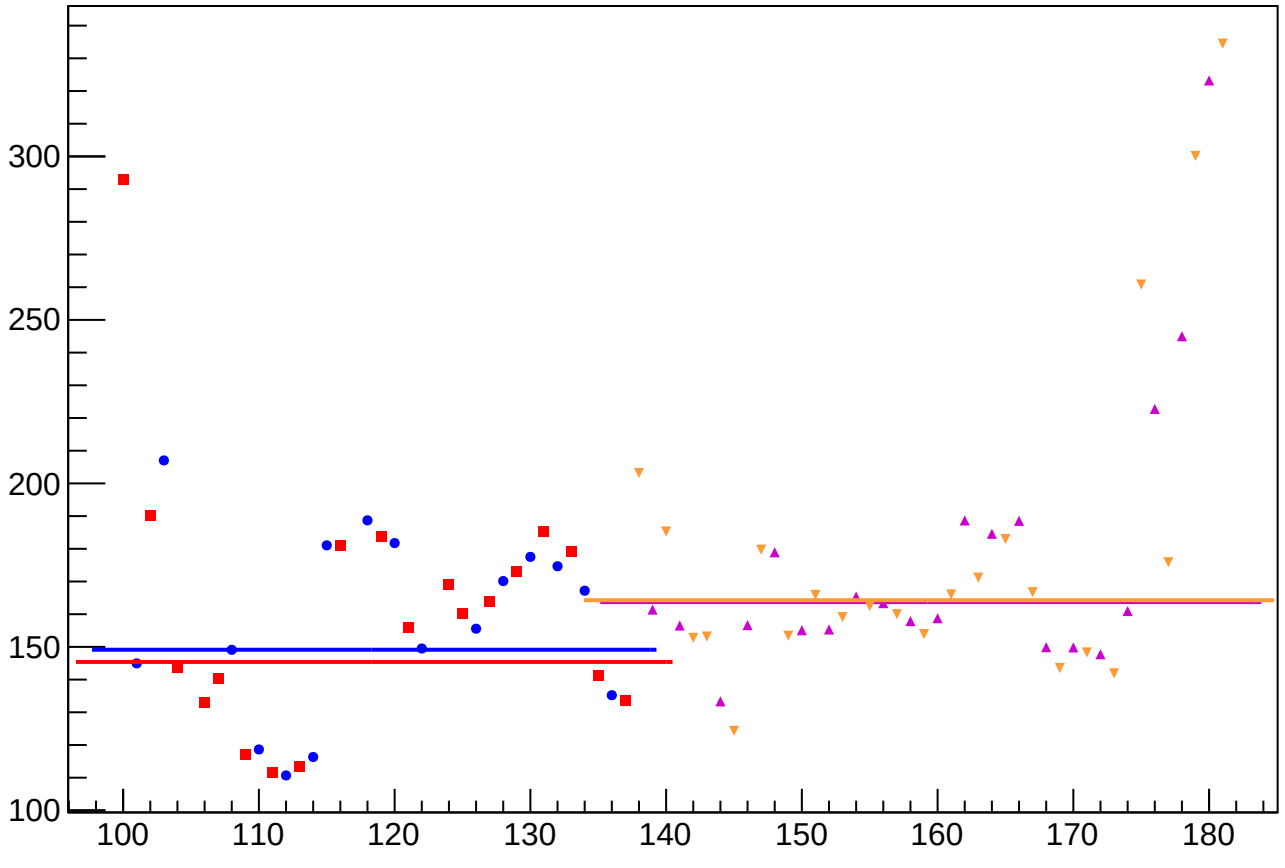
Left: 69.369+/-28.305 $\chi^2$/NDF: 49.9/43

Right: -2.629+/-39.394 $\chi^2$/NDF: 32.6/34

In: 40.838+/-32.973 $\chi^2$/NDF:43.5/36

Out: 48.653+/-32.063 $\chi^2$/NDF:41.1/41

All: 44.855+/-22.987 $\chi^2$/NDF: 84.7/78




Right In: 149.130+/-0.040 $\chi^2$/NDF: 451005.1/15

Left Out: 164.277+/-0.028 $\chi^2$/NDF:1333556.9/22

Right Out: 145.399+/-0.039 $\chi^2$/NDF: 525822.2/18

Left In: 163.698+/-0.029 $\chi^2$/NDF:902827.6/20

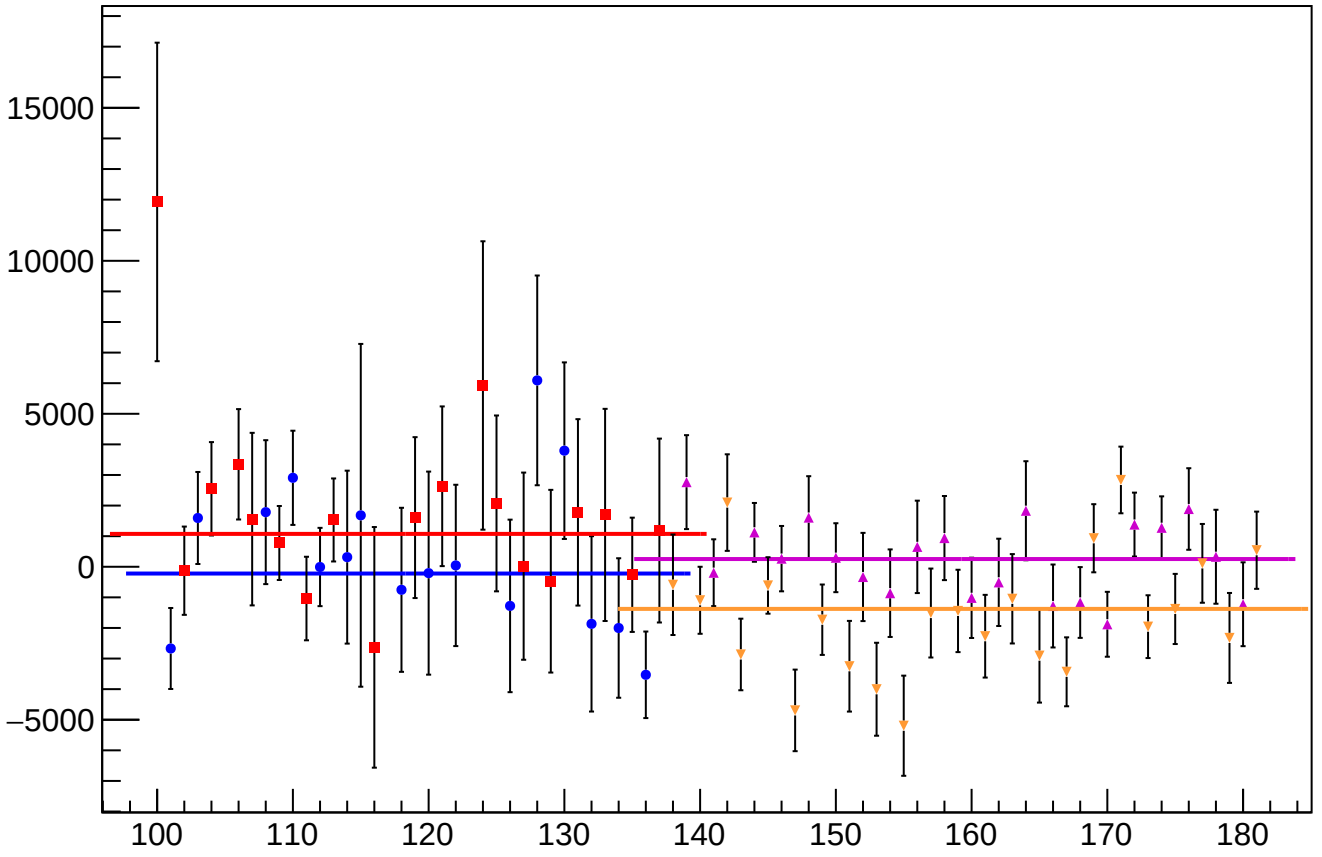
Left: 163.994+/-0.020 $\chi^2$/NDF: 2236593.8/43

Right: 147.198+/-0.028 $\chi^2$/NDF: 981307.0/34

In: 158.777+/-0.023 $\chi^2$/NDF:1441152.2/36

Out: 157.801+/-0.023 $\chi^2$/NDF:2015628.0/41

All: 158.275+/-0.016 $\chi^2$/NDF: 3457681.1/78




Right In: -221.239+/-506.201 $\chi^2$/NDF: 21.9/15

Left Out: -1376.775+/-263.533 $\chi^2$/NDF:52.2/22

Right Out: 1074.432+/-472.816 $\chi^2$/NDF: 13.6/18

Left In: 252.502+/-272.039 $\chi^2$/NDF:19.6/20

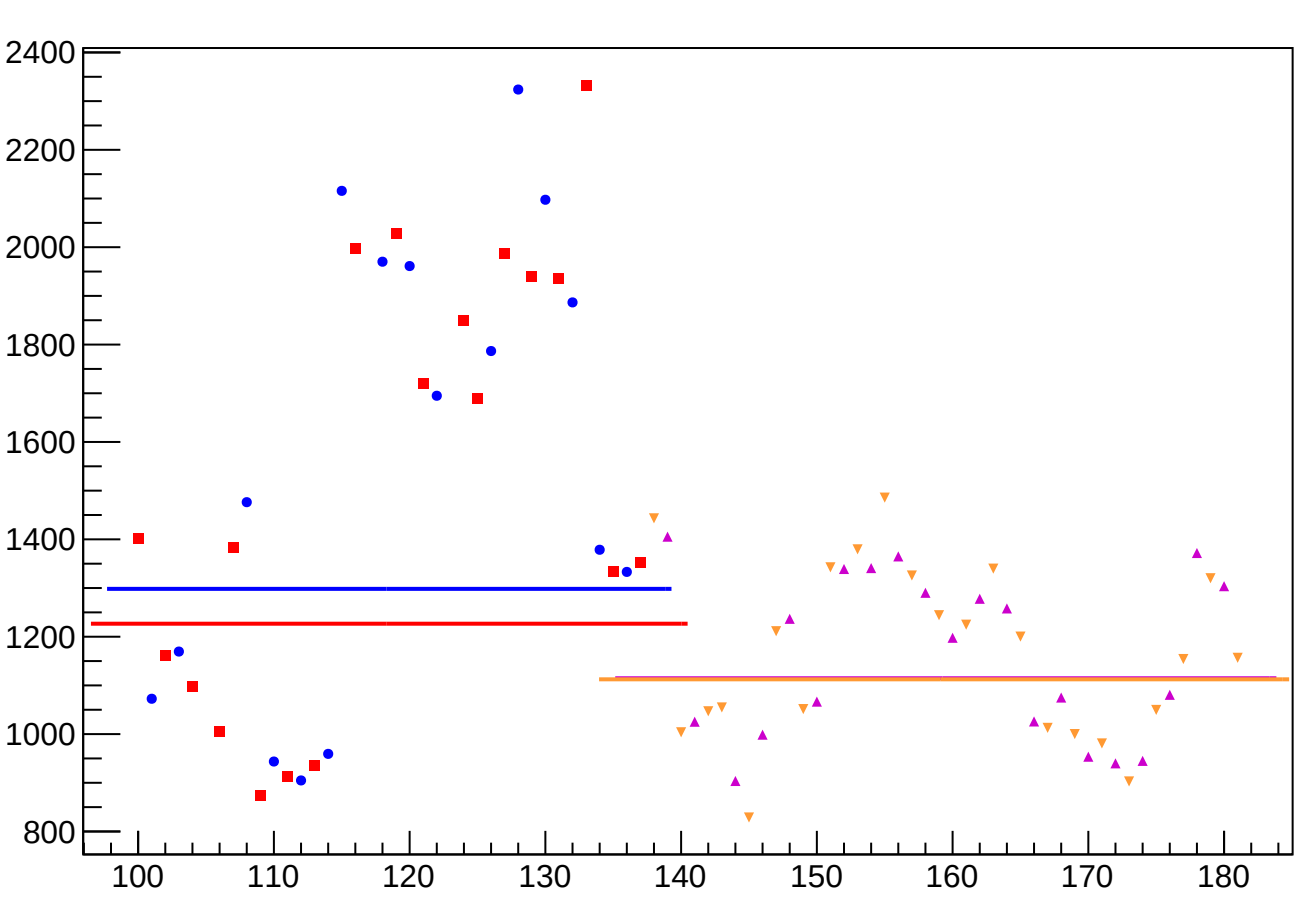
Left: -588.007+/-189.282 $\chi^2$/NDF: 90.3/43

Right: 470.728+/-345.531 $\chi^2$/NDF: 39.0/34

In: 146.340+/-239.627 $\chi^2$/NDF:42.1/36

Out: -795.775+/-230.192 $\chi^2$/NDF:86.4/41

All: -343.631+/-166.006 $\chi^2$/NDF: 136.5/78




Right In: 1298.292+/-0.358 $\chi^2$/NDF: 1182127.2/15

Left Out: 1112.499+/-0.186 $\chi^2$/NDF:859077.0/22

Right Out: 1226.727+/-0.334 $\chi^2$/NDF: 1404524.7/18

Left In: 1114.727+/-0.192 $\chi^2$/NDF:724054.7/20

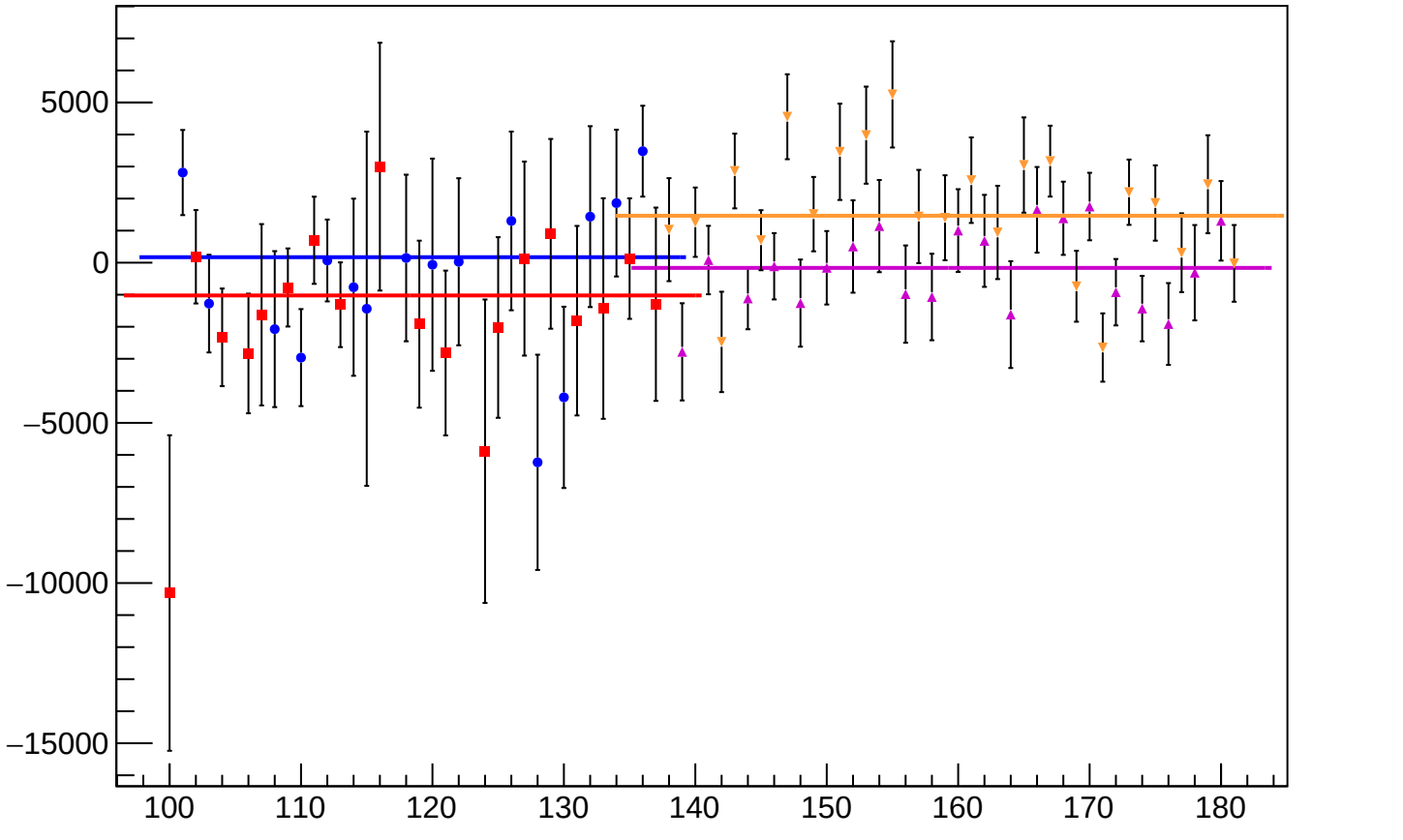
Left: 1113.578+/-0.134 $\chi^2$/NDF: 1583200.9/43

Right: 1260.072+/-0.244 $\chi^2$/NDF: 2608000.5/34

In: 1155.863+/-0.169 $\chi^2$/NDF:2110248.0/36

Out: 1139.574+/-0.163 $\chi^2$/NDF:2352664.9/41

All: 1147.392+/-0.117 $\chi^2$/NDF: 4467718.7/78




Right In: 171.056+/-505.136 $\chi^2$/NDF: 22.6/15

Left Out: 1464.763+/-261.844 $\chi^2$/NDF:50.3/22

Right Out: -1023.699+/-472.008 $\chi^2$/NDF: 11.6/18

Left In: -163.050+/-268.782 $\chi^2$/NDF:20.7/20

Left: 672.137+/-187.557 $\chi^2$/NDF: 89.9/43

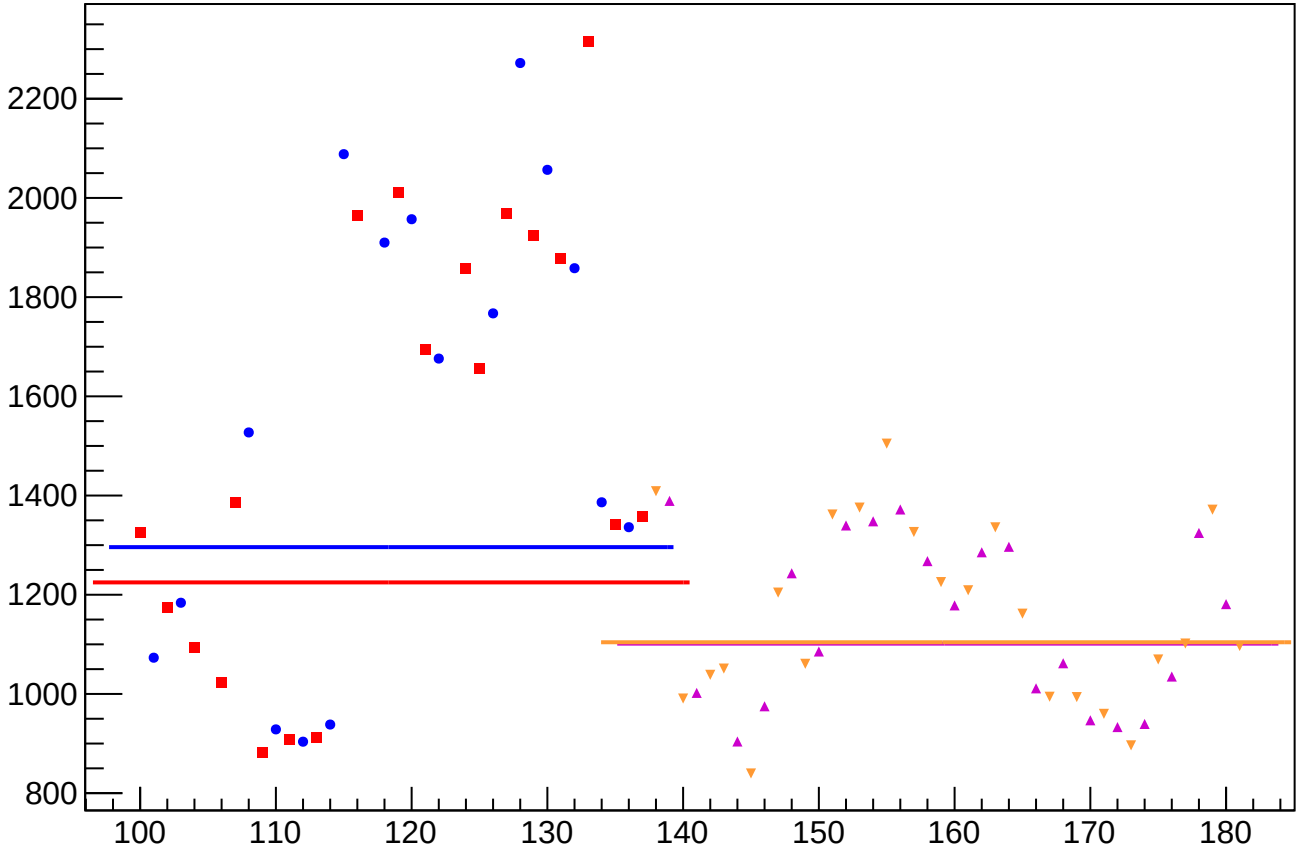
Right: -466.780+/-344.877 $\chi^2$/NDF: 37.1/34

In: -89.328+/-237.282 $\chi^2$/NDF:43.6/36

Out: 879.170+/-228.972 $\chi^2$/NDF:83.1/41

All: 412.179+/-164.767 $\chi^2$/NDF: 135.4/78

# asym_sam_48_avg_rms vs Slug, Sign Corrected




Right In: 1295.987+/-0.357 $\chi^2$/NDF: 1154185.9/15

Left Out: 1104.199+/-0.185 $\chi^2$/NDF:866328.8/22

Right Out: 1224.872+/-0.334 $\chi^2$/NDF: 1371285.2/18

Left In: 1101.444+/-0.190 $\chi^2$/NDF:715743.2/20

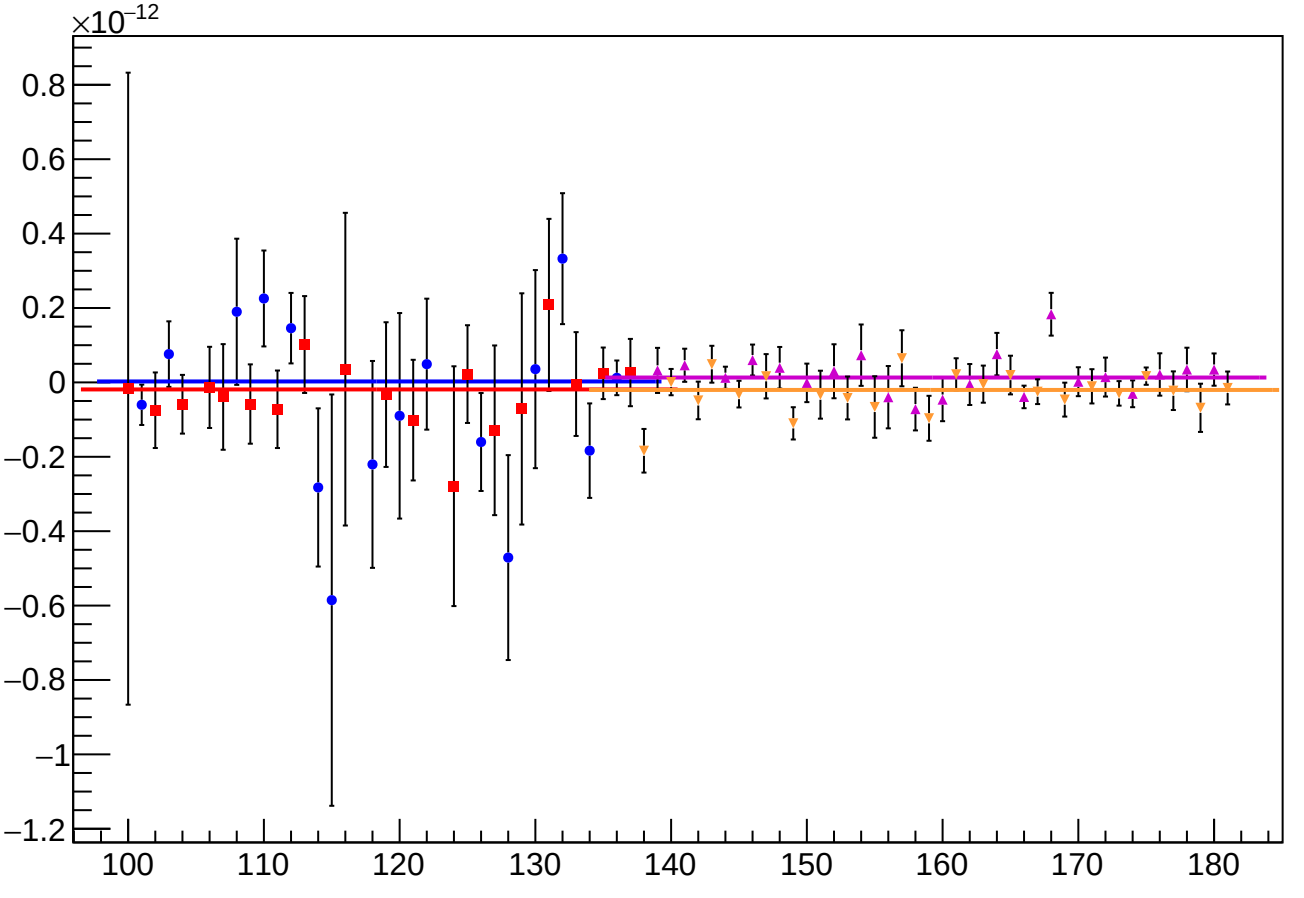
Left: 1102.858+/-0.133 $\chi^2$/NDF: 1582179.8/43

Right: 1258.021+/-0.244 $\chi^2$/NDF: 2546633.6/34

In: 1144.371+/-0.168 $\chi^2$/NDF:2101122.5/36

Out: 1132.596+/-0.162 $\chi^2$/NDF:2337573.6/41

All: 1138.274+/-0.117 $\chi^2$/NDF: 4441246.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:23.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 4.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.5/20

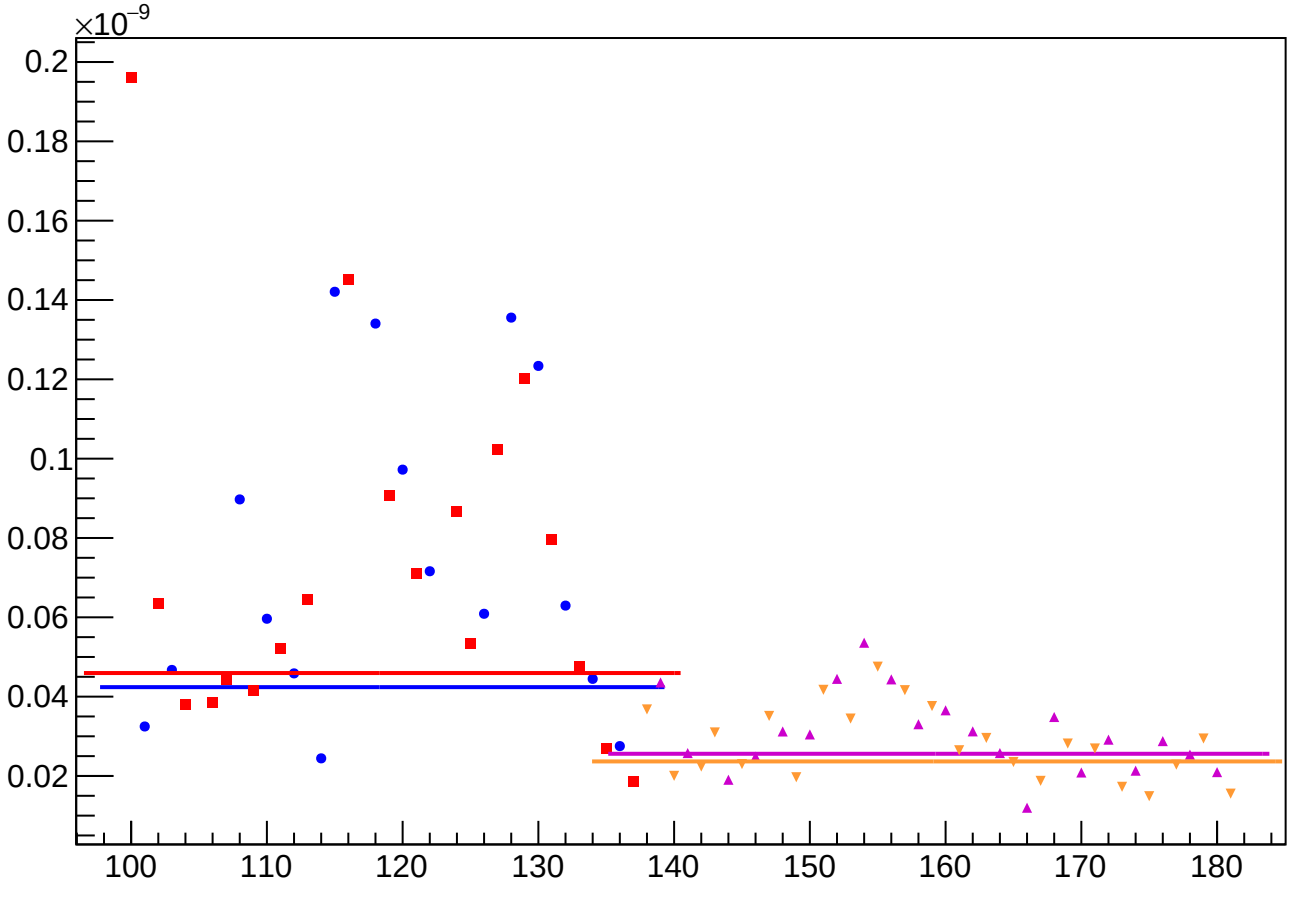
Left: -0.000+/-0.000 $\chi^2$/NDF: 50.9/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:43.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:28.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 78.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1341259.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1425786.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1118551.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1454185.4/20

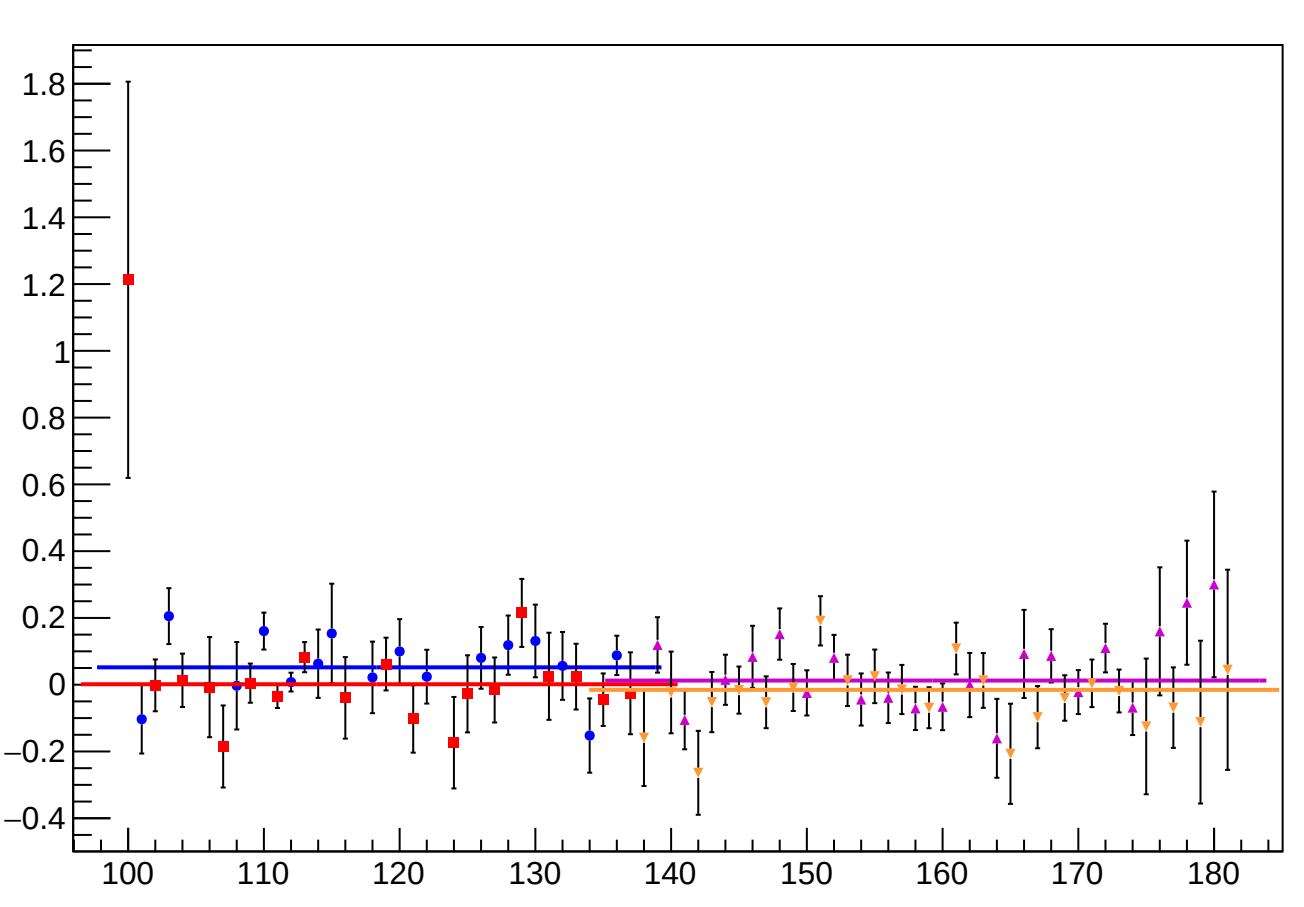
Left: 0.000+/-0.000 $\chi^2$/NDF: 2918282.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 2476096.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:3476965.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:3624342.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 7150379.3/78




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.015+/-0.018 $\chi^2$/NDF:20.3/22

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.012+/-0.018 $\chi^2$/NDF:22.2/20

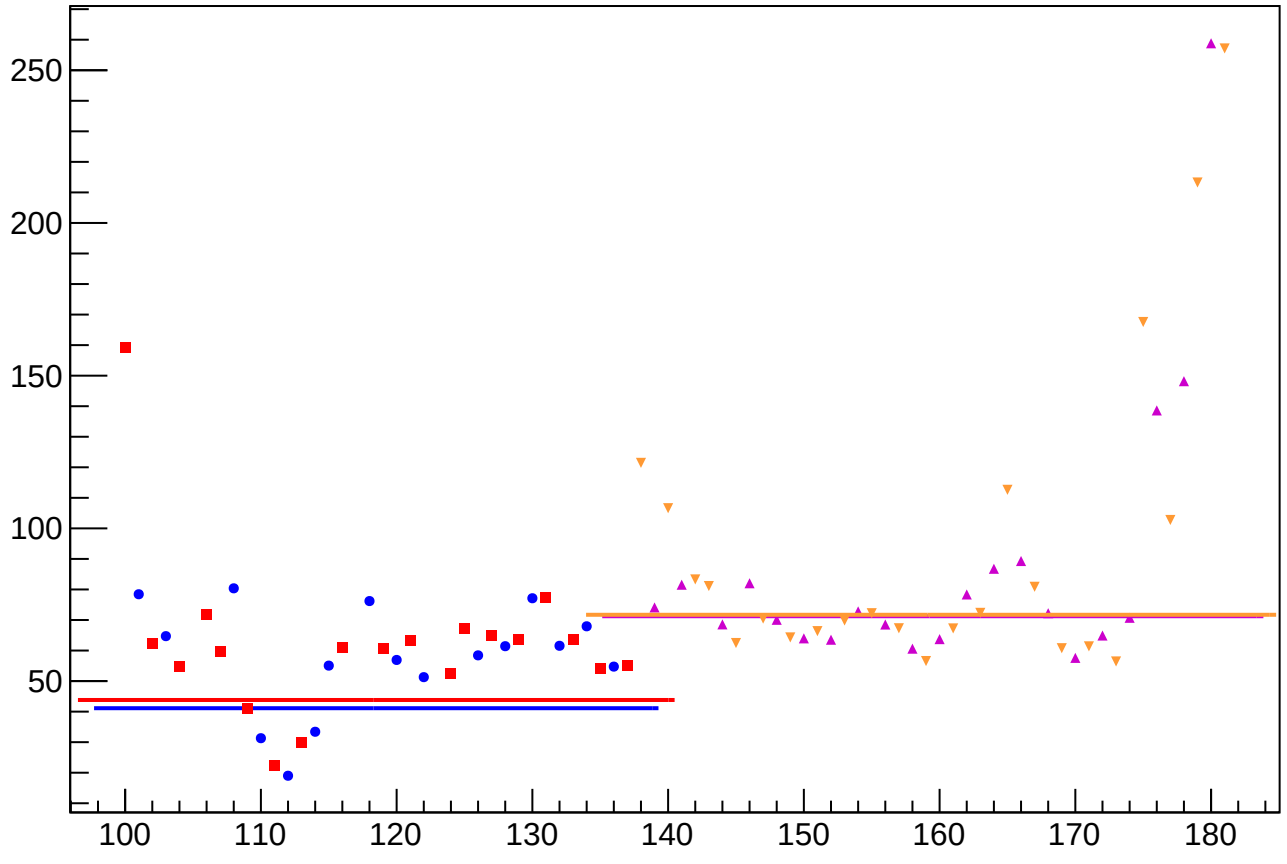
Left: -0.002+/-0.013 $\chi^2$/NDF: 43.6/43

Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.033+/-0.013 $\chi^2$/NDF:42.5/36

Out: -0.007+/-0.013 $\chi^2$/NDF:39.9/41

All: 0.013+/-0.009 $\chi^2$/NDF: 87.4/78




Right In: 41.120+/-0.013 $\chi^2$/NDF: 2925302.3/15

Left Out: 71.710+/-0.013 $\chi^2$/NDF:3034707.1/22

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048452.0/18

Left In: 71.235+/-0.013 $\chi^2$/NDF:1872123.6/20

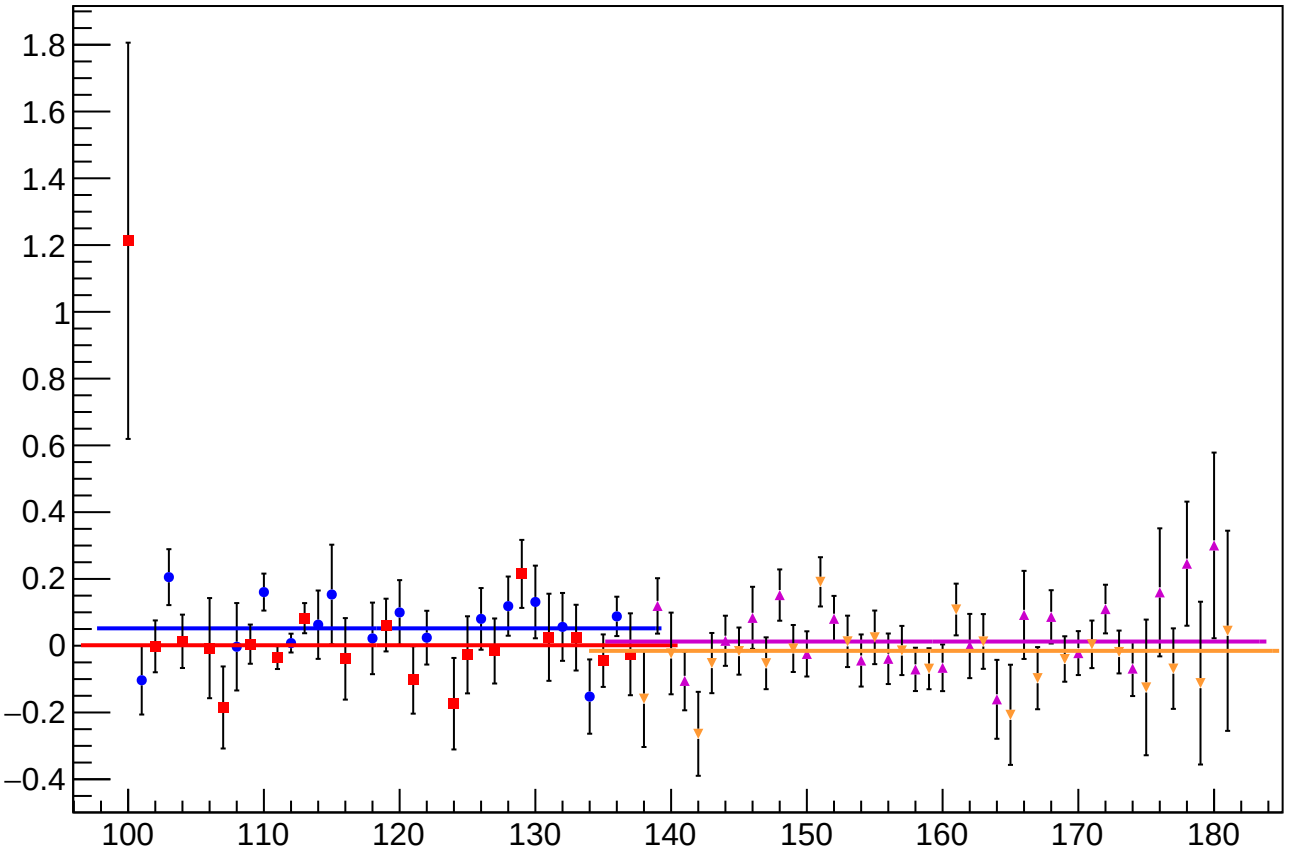
Left: 71.476+/-0.009 $\chi^2$/NDF: 4907514.8/43

Right: 42.455+/-0.009 $\chi^2$/NDF: 4996519.9/34

In: 55.715+/-0.009 $\chi^2$/NDF:7580603.7/36

Out: 57.688+/-0.009 $\chi^2$/NDF:7491690.7/41

All: 56.705+/-0.006 $\chi^2$/NDF: 15096286.3/78




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.015+/-0.018 $\chi^2$/NDF:20.3/22

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.012+/-0.018 $\chi^2$/NDF:22.2/20

Left: -0.002+/-0.013 $\chi^2$/NDF: 43.6/43

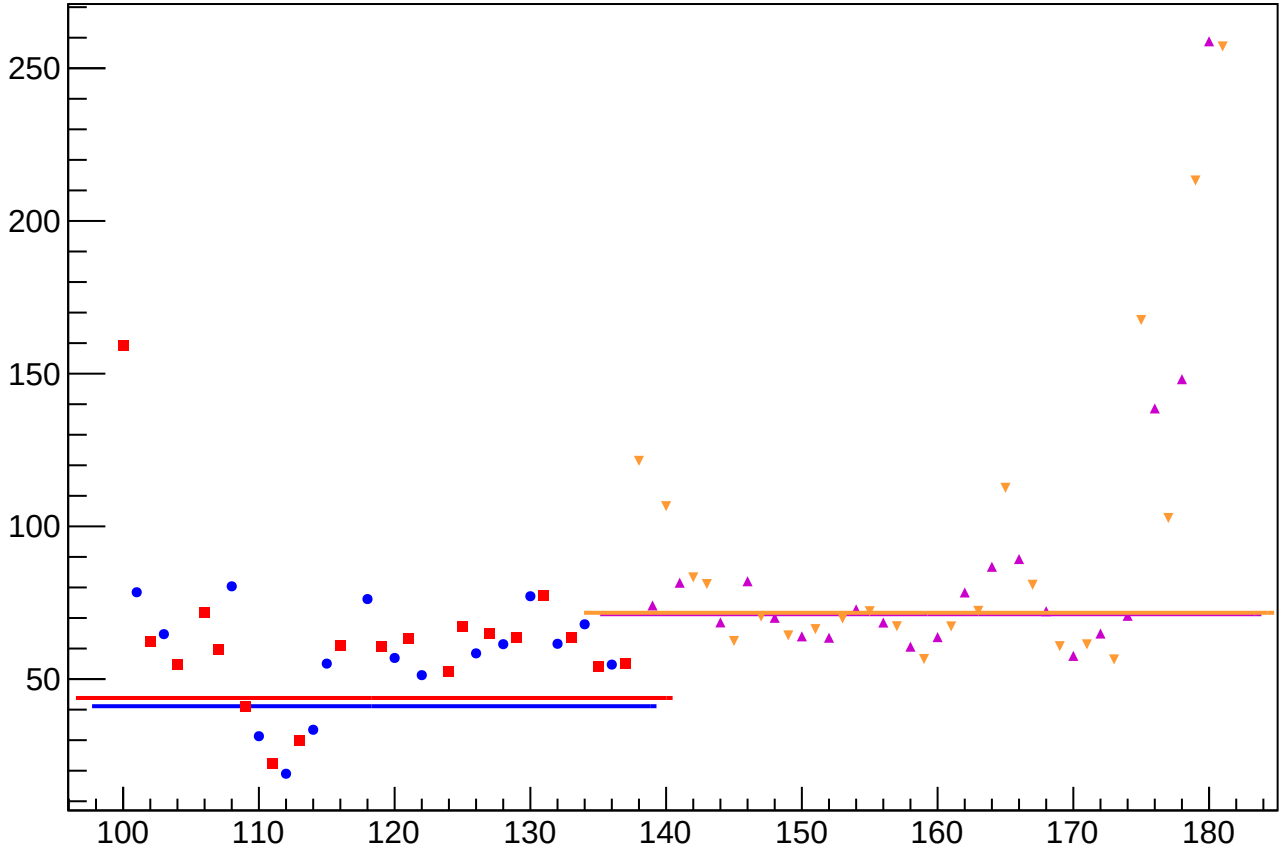
Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.033+/-0.013 $\chi^2$/NDF:42.5/36

Out: -0.007+/-0.013 $\chi^2$/NDF:39.9/41

All: 0.013+/-0.009 $\chi^2$/NDF: 87.4/78

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 41.120+/-0.013 $\chi^2$/NDF: 2925302.3/15

Left Out: 71.710+/-0.013 $\chi^2$/NDF:3034707.1/22

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048452.0/18

Left In: 71.235+/-0.013 $\chi^2$/NDF:1872123.6/20

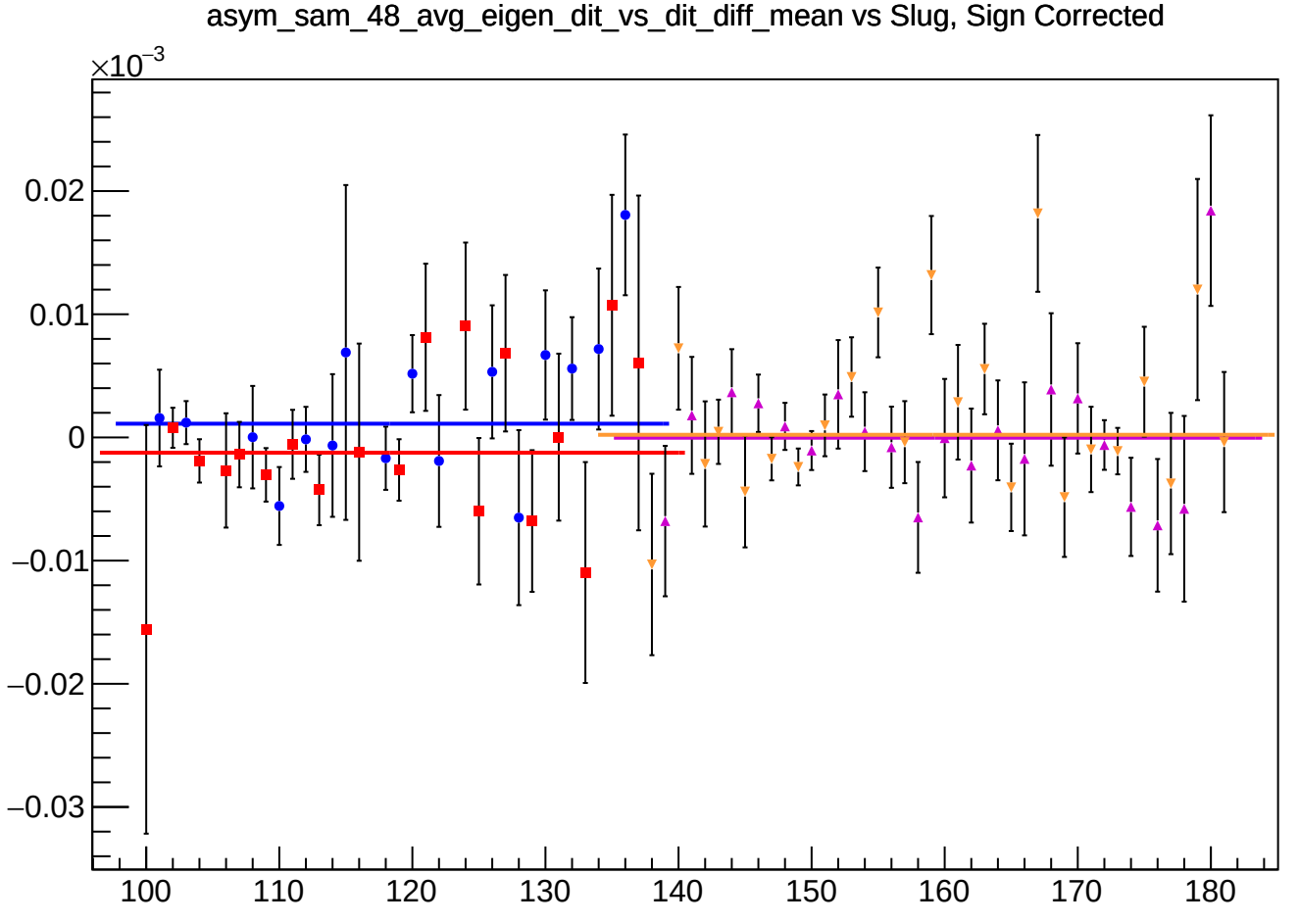
Left: 71.476+/-0.009 $\chi^2$/NDF: 4907514.8/43

Right: 42.455+/-0.009 $\chi^2$/NDF: 4996519.9/34

In: 55.715+/-0.009 $\chi^2$/NDF:7580603.7/36

Out: 57.688+/-0.009 $\chi^2$/NDF:7491690.7/41

All: 56.705+/-0.006 $\chi^2$/NDF: 15096286.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:43.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.7/20

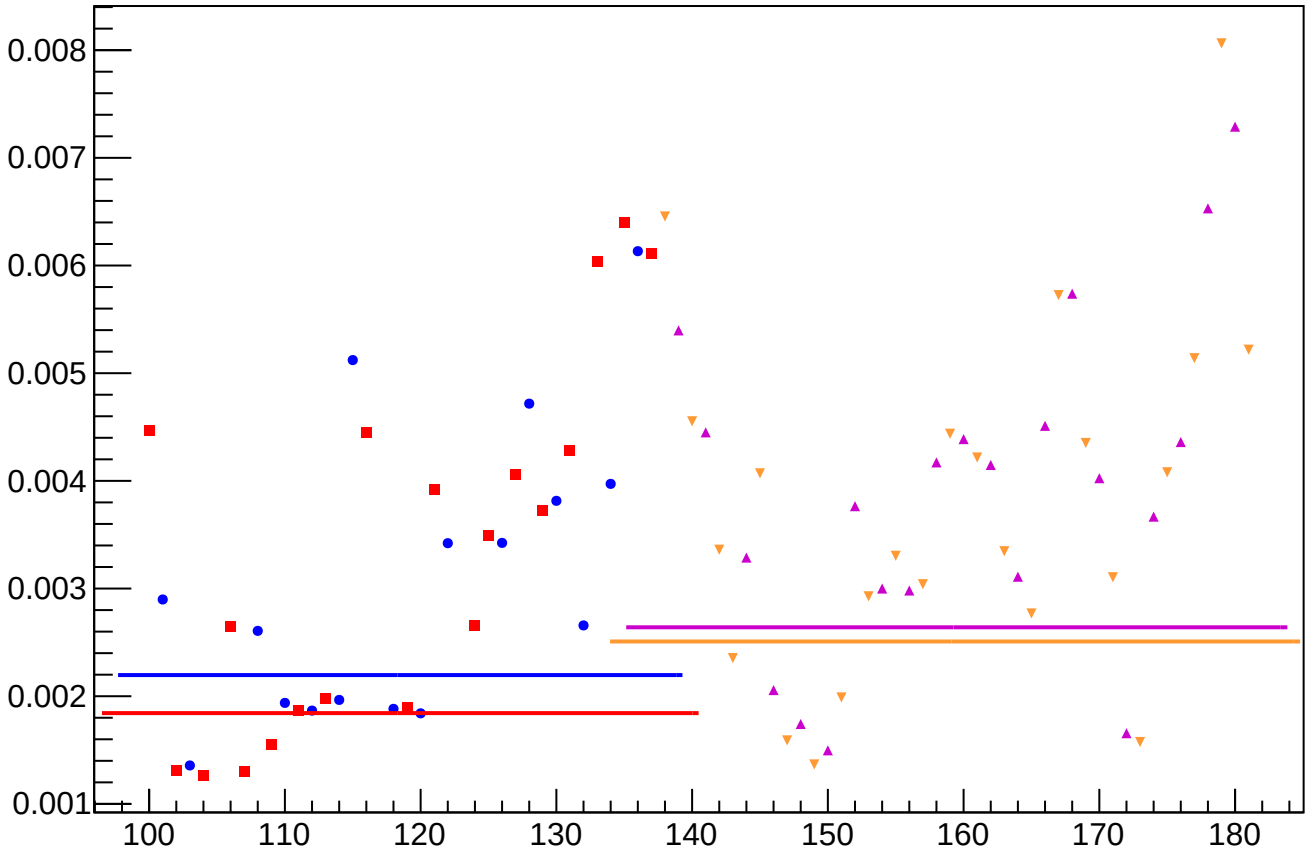
Left: 0.000+/-0.000 $\chi^2$/NDF: 62.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:39.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:61.3/41

All: -0.000+/-0.000 $\chi^2$/NDF: 102.0/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2292909.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:7141144.2/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3137598.0/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:6231379.4/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 13408829.8/43

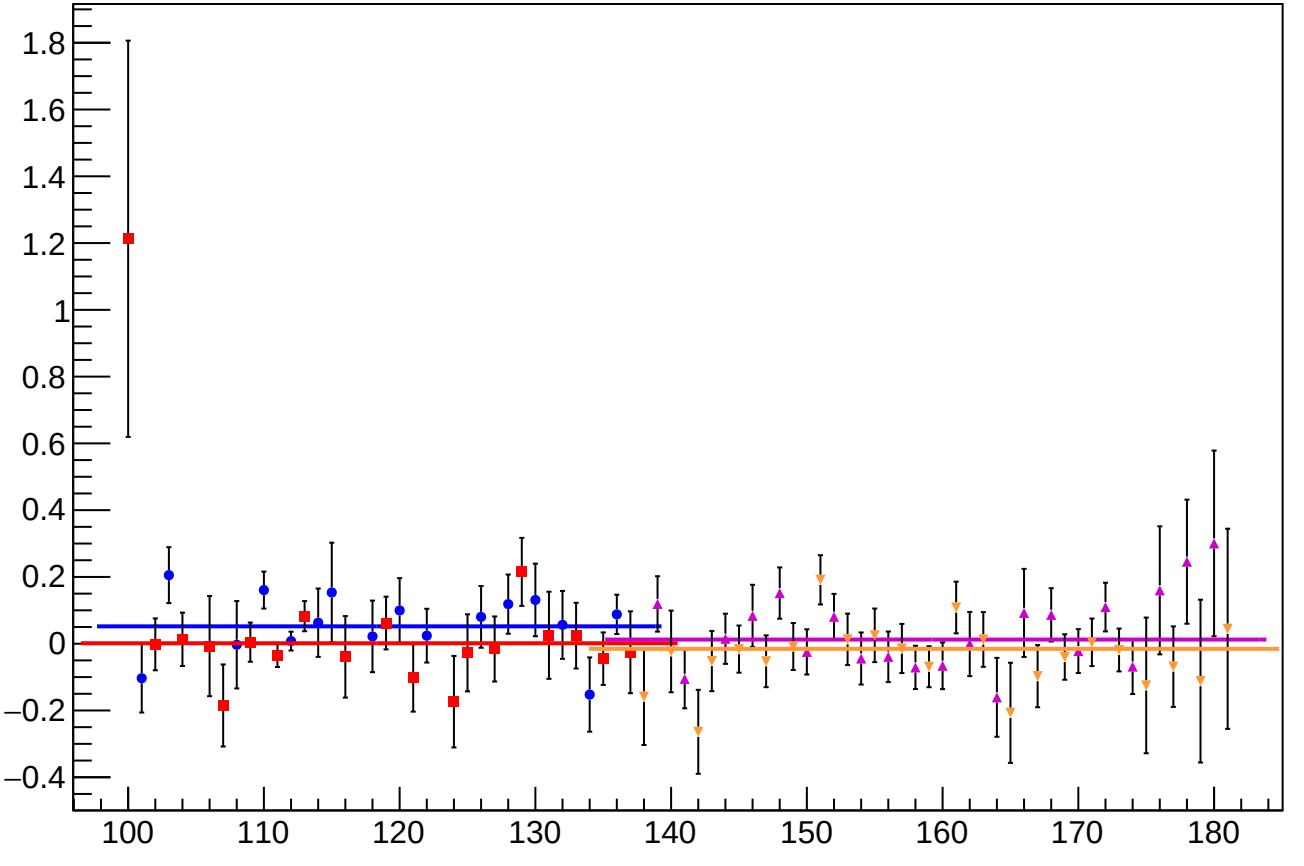
Right: 0.002+/-0.000 $\chi^2$/NDF: 5607793.8/34

In: 0.002+/-0.000 $\chi^2$/NDF:8817582.0/36

Out: 0.002+/-0.000 $\chi^2$/NDF:11145553.0/41

All: 0.002+/-0.000 $\chi^2$/NDF: 20175309.8/78

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.015+/-0.018 $\chi^2$/NDF:20.3/22

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.012+/-0.018 $\chi^2$/NDF:22.2/20

Left: -0.002+/-0.013 $\chi^2$/NDF: 43.6/43

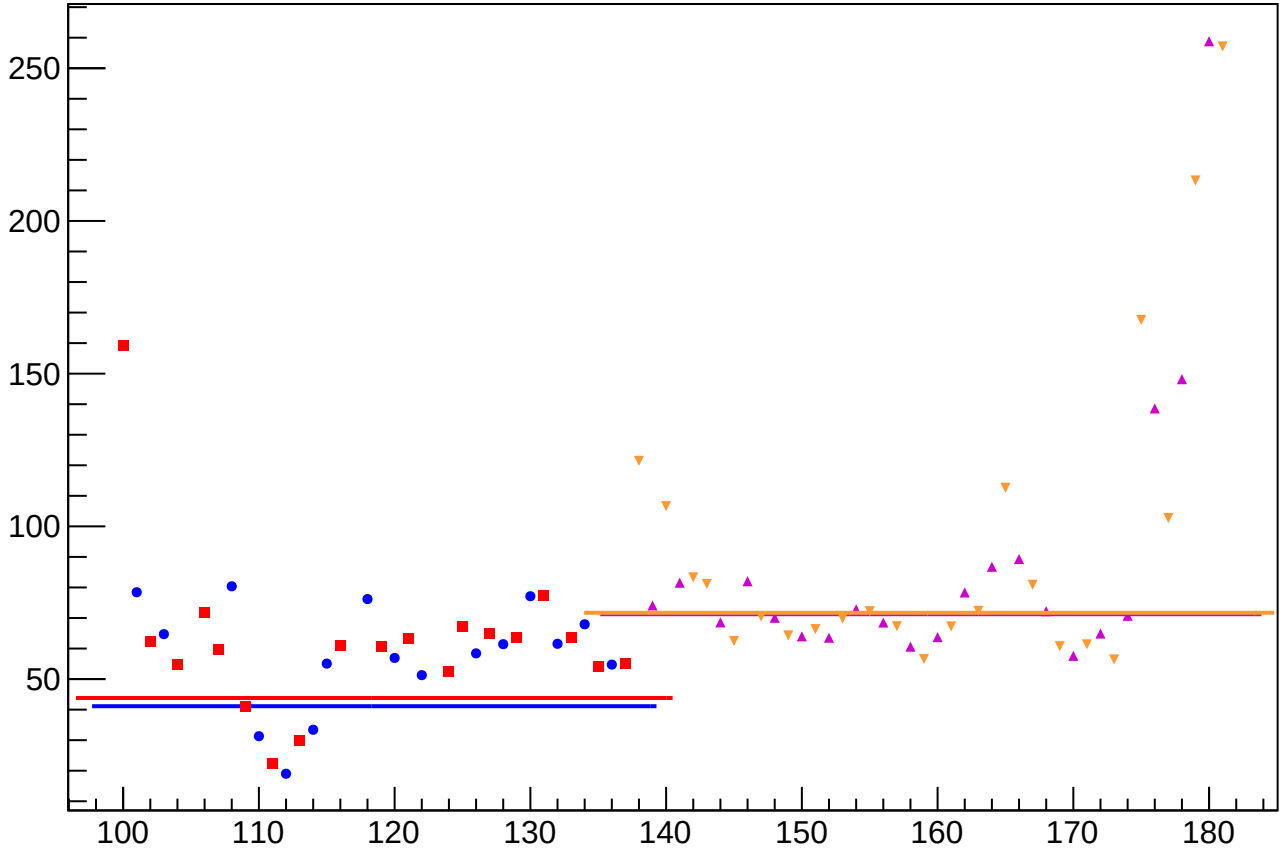
Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.033+/-0.013 $\chi^2$/NDF:42.5/36

Out: -0.007+/-0.013 $\chi^2$/NDF:39.9/41

All: 0.013+/-0.009 $\chi^2$/NDF: 87.4/78

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 41.119+/-0.013 $\chi^2$/NDF: 2925464.8/15

Left Out: 71.711+/-0.013 $\chi^2$/NDF:3034657.4/22

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048627.9/18

Left In: 71.235+/-0.013 $\chi^2$/NDF:1872061.2/20

Left: 71.477+/-0.009 $\chi^2$/NDF: 4907402.8/43

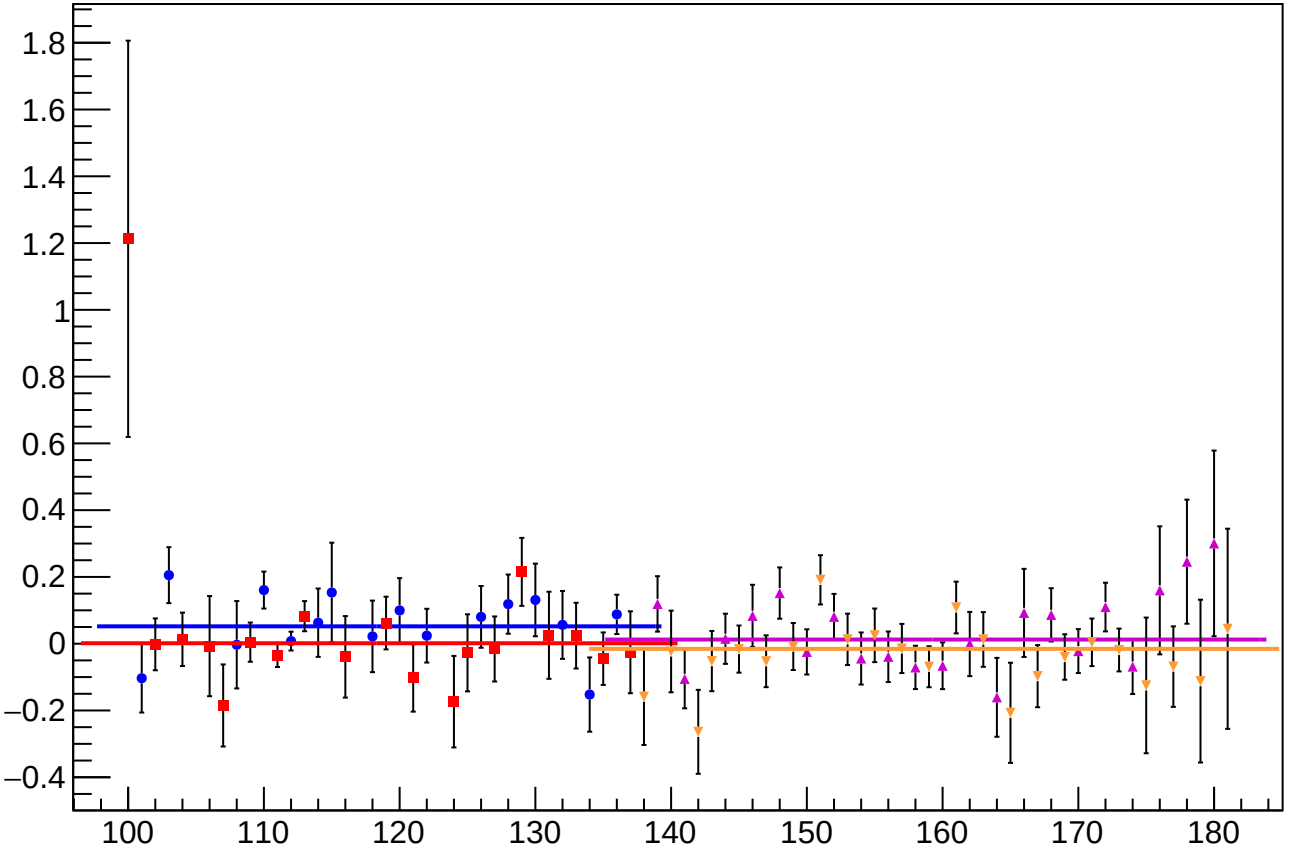
Right: 42.454+/-0.009 $\chi^2$/NDF: 4996859.3/34

In: 55.715+/-0.009 $\chi^2$/NDF:7581002.0/36

Out: 57.687+/-0.009 $\chi^2$/NDF:7492089.9/41

All: 56.705+/-0.006 $\chi^2$/NDF: 15097085.8/78

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.015+/-0.018 $\chi^2$/NDF:20.3/22

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.012+/-0.018 $\chi^2$/NDF:22.2/20

Left: -0.002+/-0.013 $\chi^2$/NDF: 43.6/43

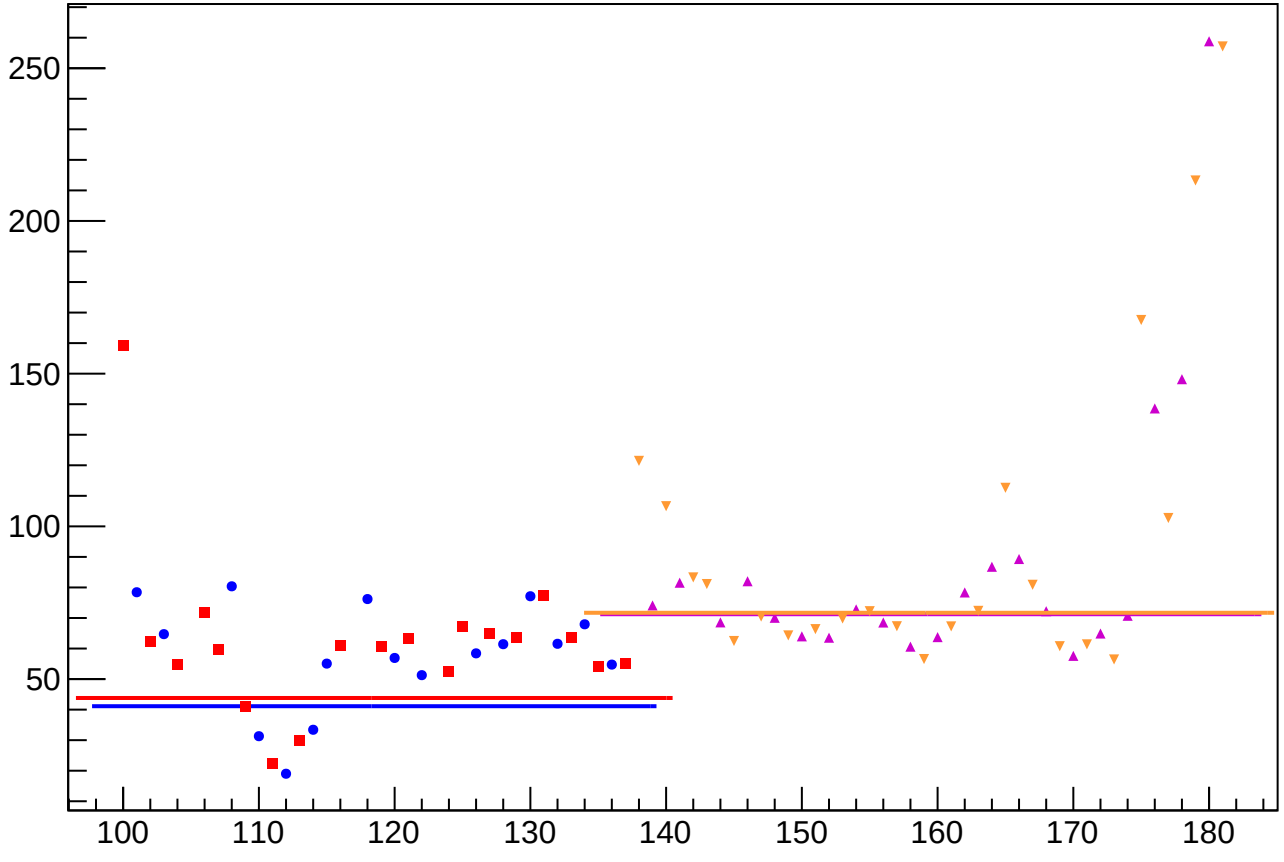
Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.033+/-0.013 $\chi^2$/NDF:42.5/36

Out: -0.007+/-0.013 $\chi^2$/NDF:39.9/41

All: 0.013+/-0.009 $\chi^2$/NDF: 87.4/78

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 41.119+/-0.013 $\chi^2$/NDF: 2925464.8/15

Left Out: 71.711+/-0.013 $\chi^2$/NDF:3034657.4/22

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048627.9/18

Left In: 71.235+/-0.013 $\chi^2$/NDF:1872061.2/20

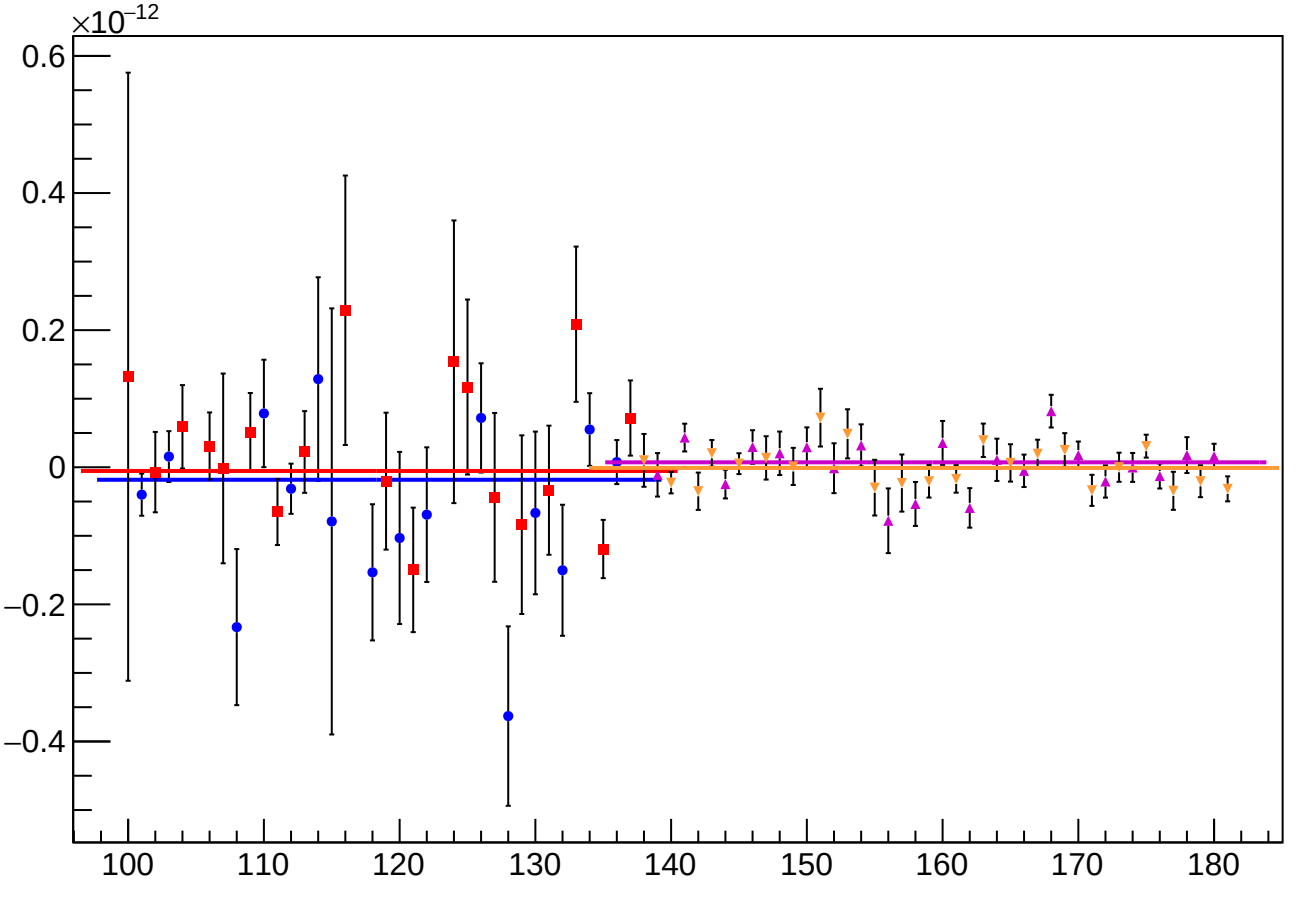
Left: 71.477+/-0.009 $\chi^2$/NDF: 4907402.8/43

Right: 42.454+/-0.009 $\chi^2$/NDF: 4996859.3/34

In: 55.715+/-0.009 $\chi^2$/NDF:7581002.0/36

Out: 57.687+/-0.009 $\chi^2$/NDF:7492089.9/41

All: 56.705+/-0.006 $\chi^2$/NDF: 15097085.8/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 23.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:27.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:34.5/20

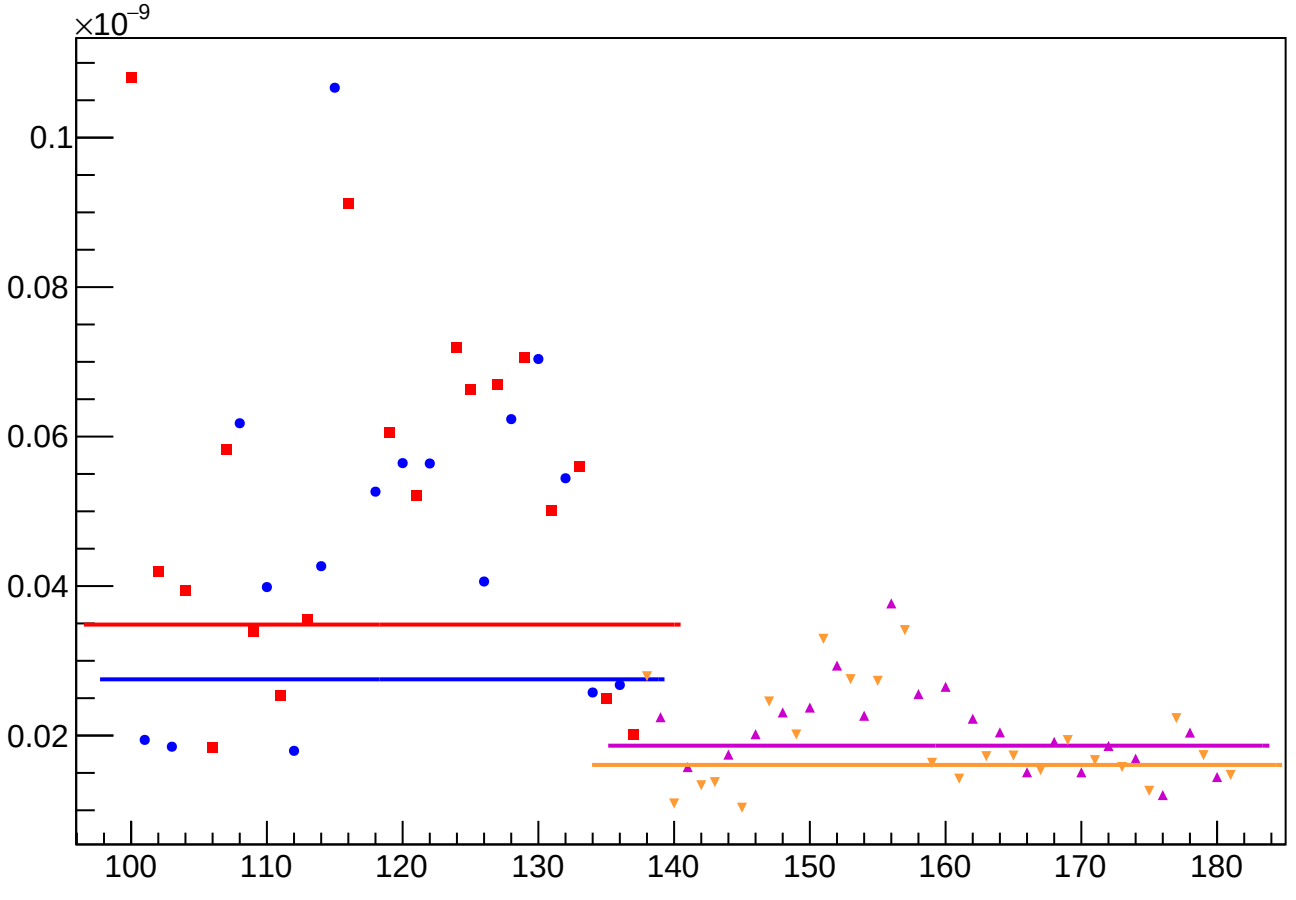
Left: 0.000+/-0.000 $\chi^2$/NDF: 63.6/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:60.3/36

Out: -0.000+/-0.000 $\chi^2$/NDF:51.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 112.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1799776.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2255400.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1676246.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1473148.0/20

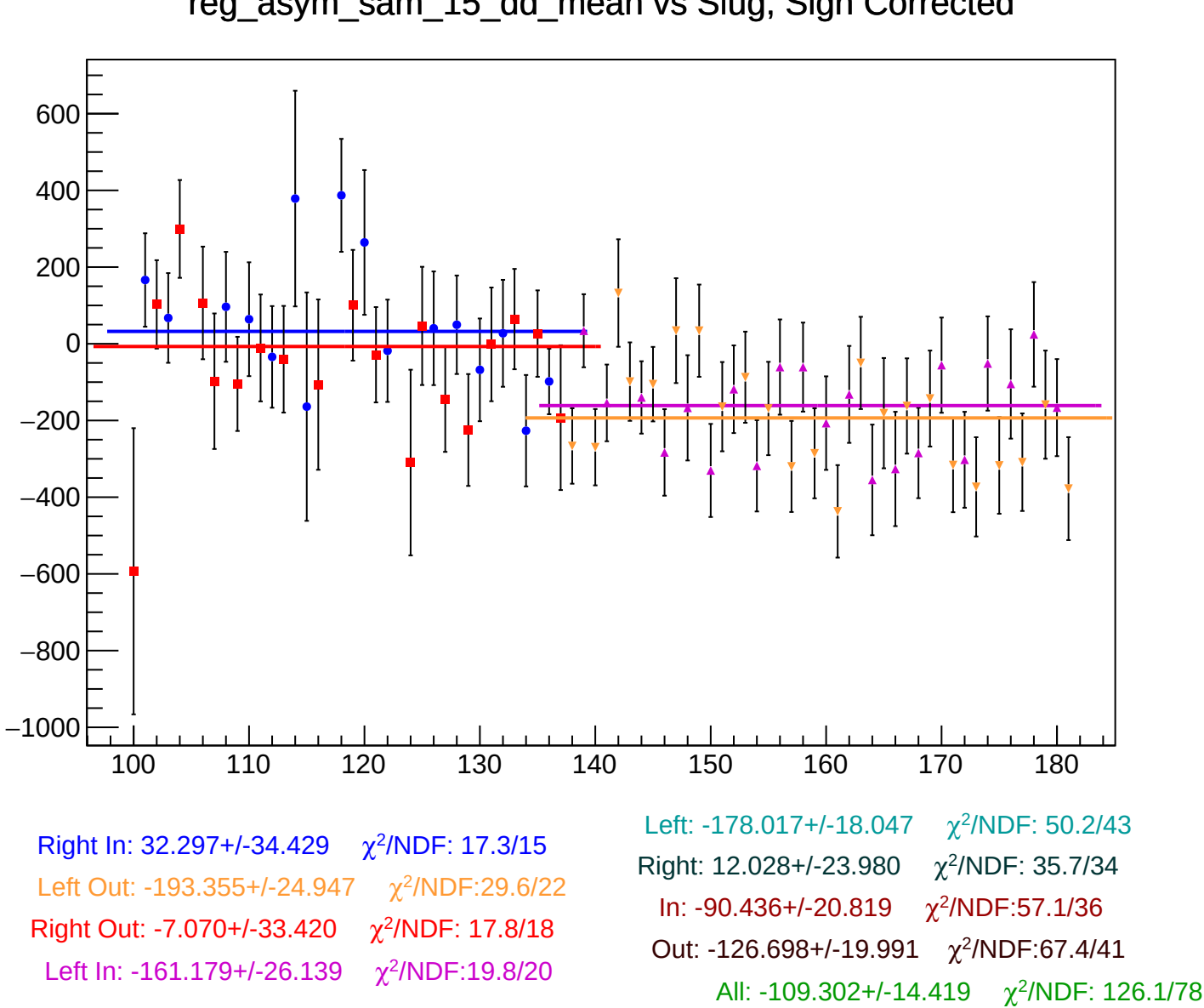
Left: 0.000+/-0.000 $\chi^2$/NDF: 3979511.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3696738.0/34

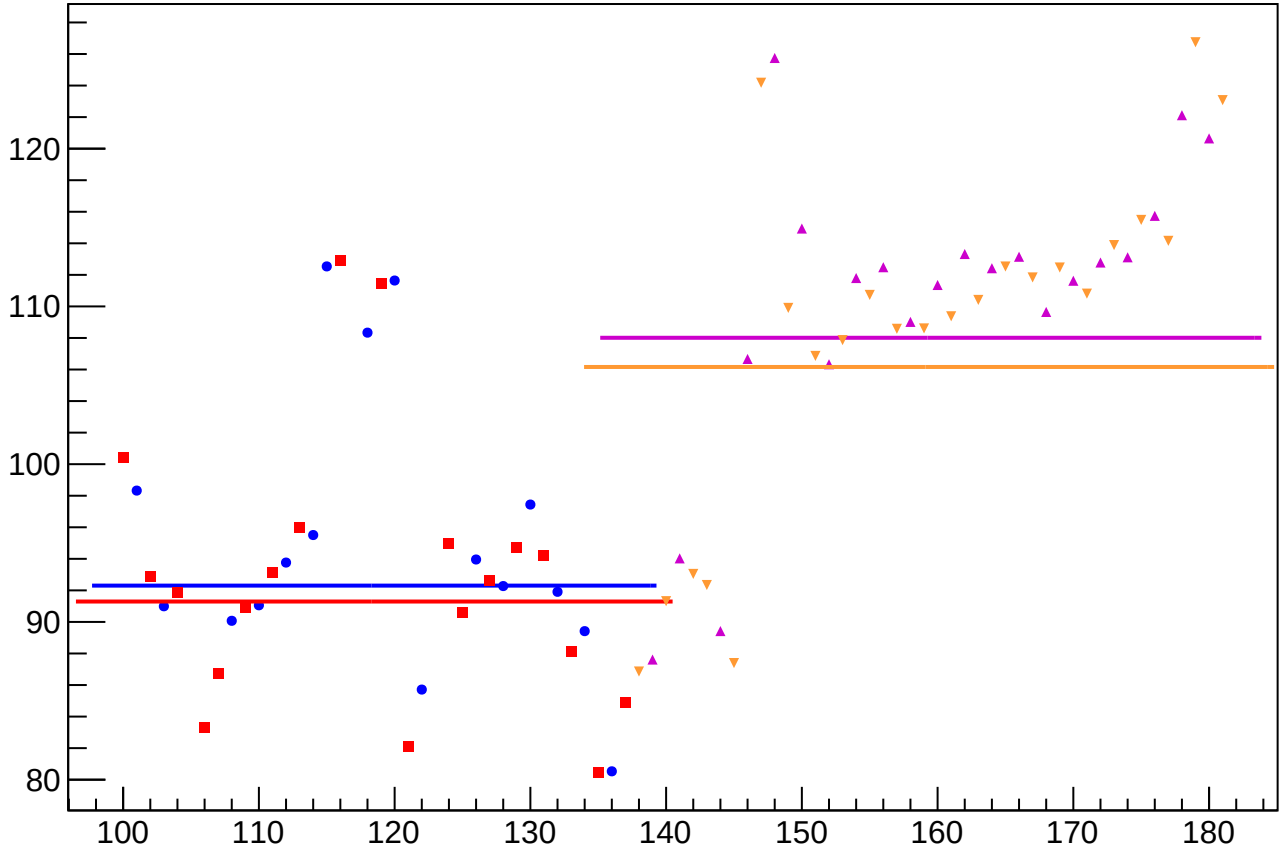
In: 0.000+/-0.000 $\chi^2$/NDF:3936964.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6269017.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10418841.1/78


reg_asym_sam_15_dd_mean vs Slug, Sign Corrected
600
400
200
0
−200
−400
−600
−800
−1000
100
110
120
130
140
150
160
170
180
Right In: 32.297+/-34.429 χ²/NDF: 17.3/15
Left Out: -193.355+/-24.947 χ²/NDF:29.6/22
Right Out: -7.070+/-33.420 χ²/NDF: 17.8/18
Left In: -161.179+/-26.139 χ²/NDF:19.8/20
Left: -178.017+/-18.047 χ²/NDF: 50.2/43
Right: 12.028+/-23.980 χ²/NDF: 35.7/34
In: -90.436+/-20.819 χ²/NDF:57.1/36
Out: -126.698+/-19.991 χ²/NDF:67.4/41
All: -109.302+/-14.419 χ²/NDF: 126.1/78

# reg_asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 106.161+/-0.018 $\chi^2$/NDF:412314.2/22

Right Out: 91.294+/-0.024 $\chi^2$/NDF: 105096.6/18

Left In: 108.012+/-0.018 $\chi^2$/NDF:318784.7/20

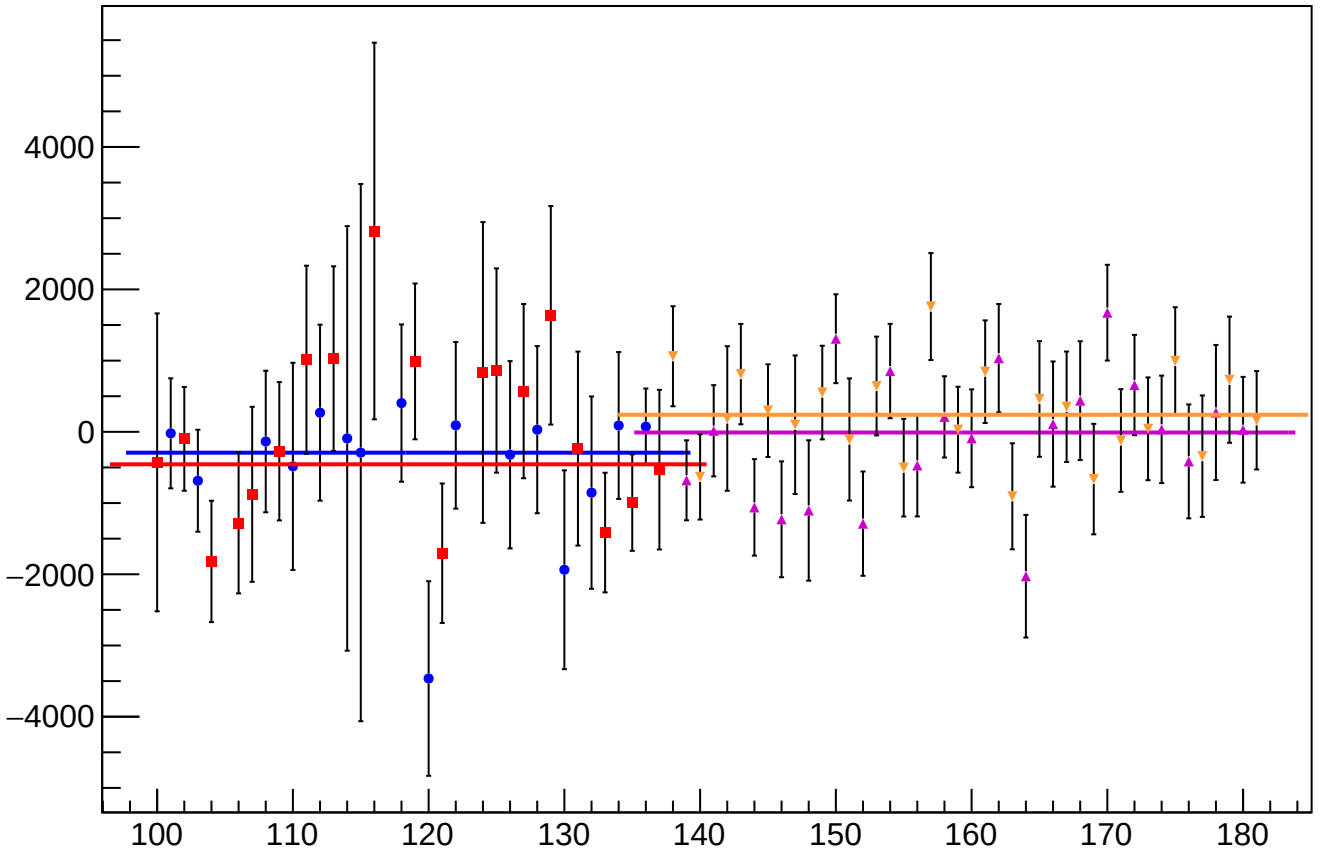
Left: 107.044+/-0.013 $\chi^2$/NDF: 736346.0/43

Right: 91.783+/-0.017 $\chi^2$/NDF: 213046.7/34

In: 102.268+/-0.015 $\chi^2$/NDF:690006.1/36

Out: 100.841+/-0.014 $\chi^2$/NDF:771605.4/41

All: 101.526+/-0.010 $\chi^2$/NDF: 1466497.5/78




Right In: -292.756+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 239.444+/-153.307 $\chi^2$/NDF:16.9/22

Right Out: -455.830+/-248.717 $\chi^2$/NDF: 16.9/18

Left In: -9.354+/-157.210 $\chi^2$/NDF:32.3/20

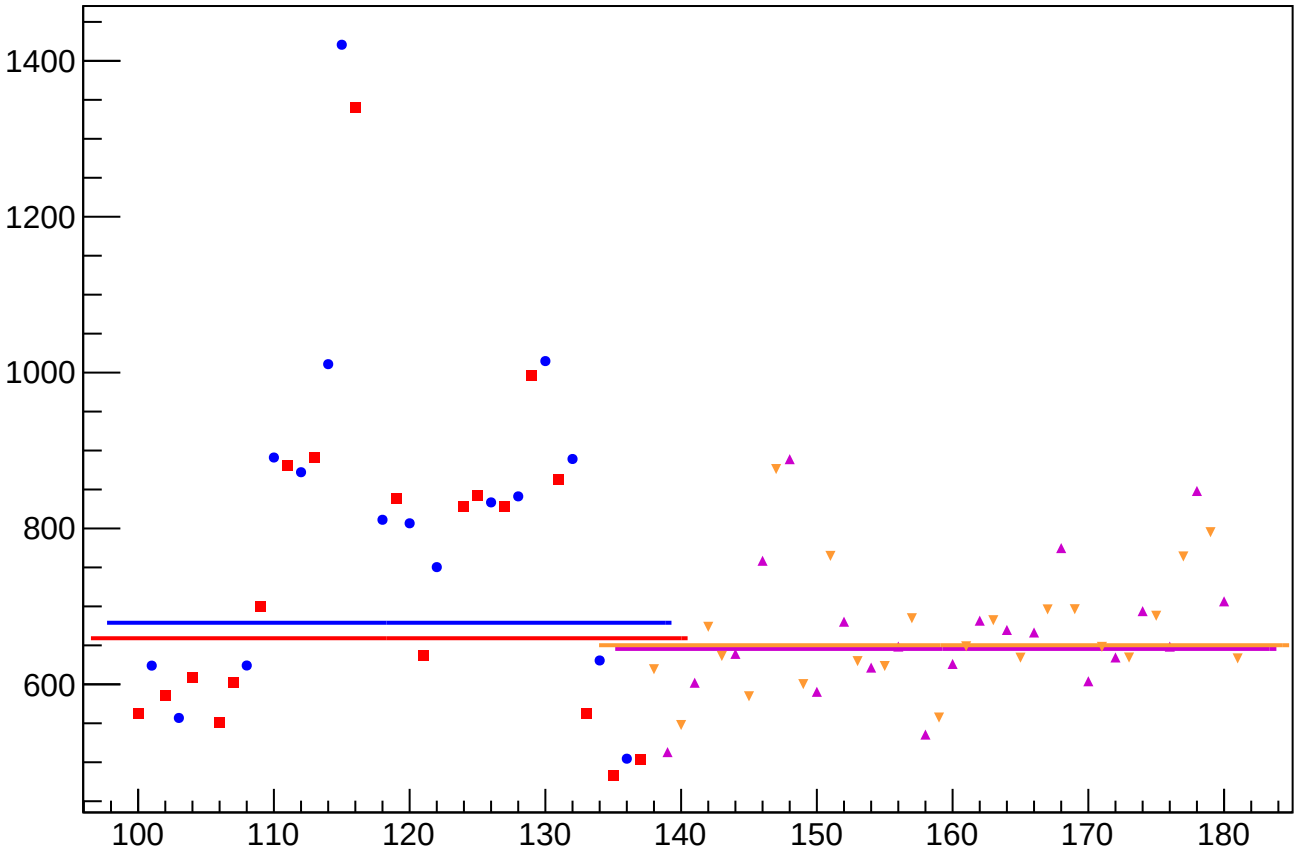
Left: 118.172+/-109.758 $\chi^2$/NDF: 50.5/43

Right: -377.812+/-179.624 $\chi^2$/NDF: 25.9/34

In: -85.359+/-134.487 $\chi^2$/NDF:42.0/36

Out: 48.014+/-130.507 $\chi^2$/NDF:39.4/41

All: -16.670+/-93.658 $\chi^2$/NDF: 81.9/78




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767983.3/15

Left Out: 650.177+/-0.108 $\chi^2$/NDF:411393.3/22

Right Out: 659.133+/-0.176 $\chi^2$/NDF: 795877.7/18

Left In: 645.433+/-0.111 $\chi^2$/NDF:556482.4/20

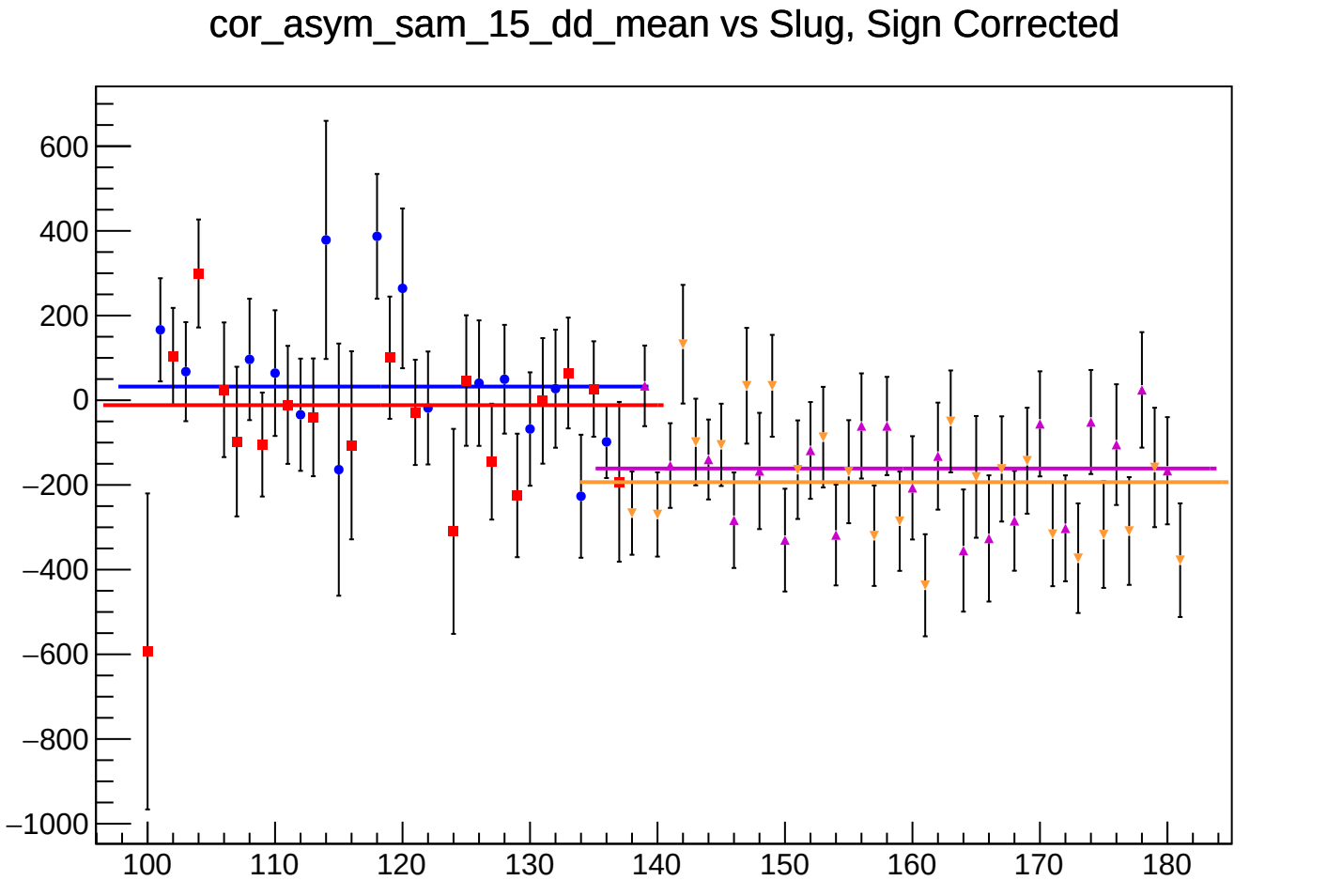
Left: 647.865+/-0.078 $\chi^2$/NDF: 968809.4/43

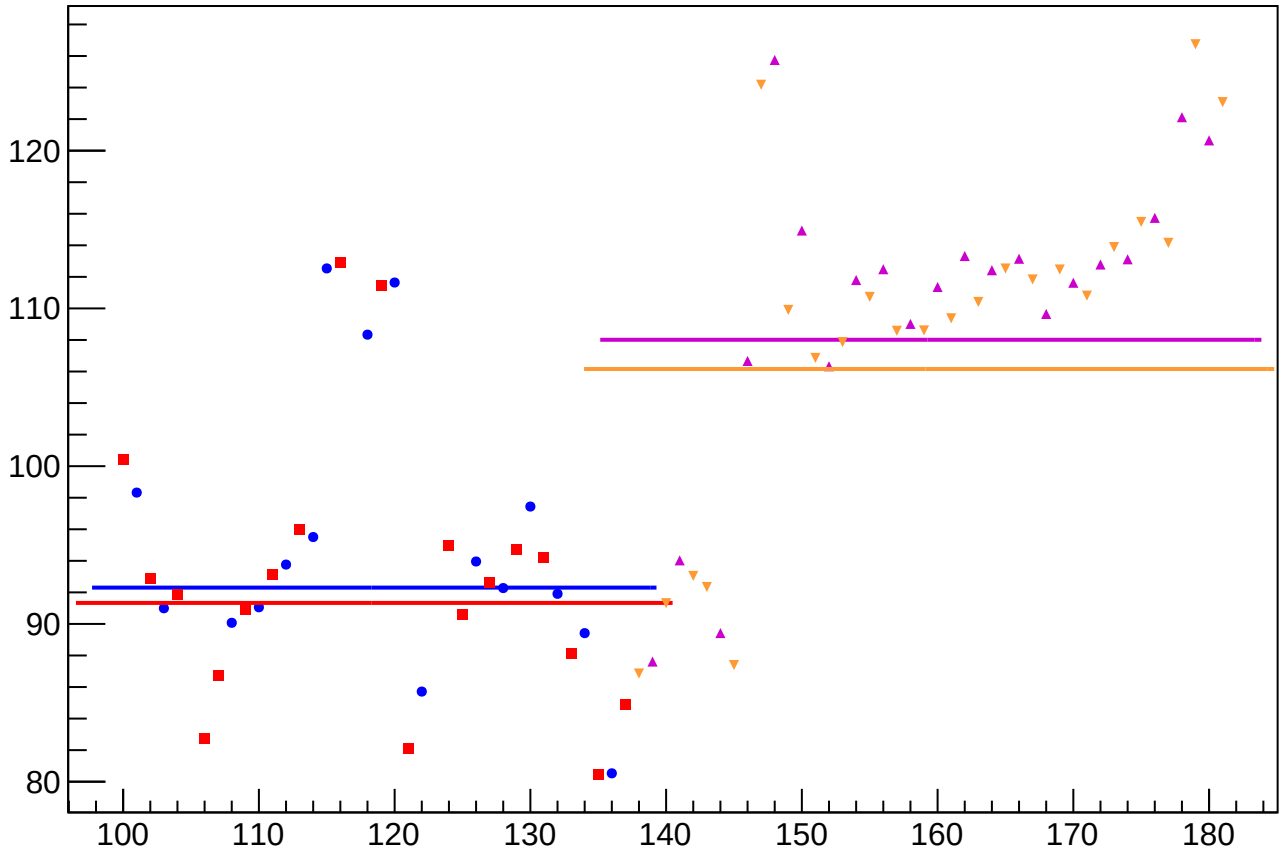
Right: 668.639+/-0.127 $\chi^2$/NDF: 1569967.8/34

In: 654.436+/-0.095 $\chi^2$/NDF:1348923.8/36

Out: 652.643+/-0.092 $\chi^2$/NDF:1209150.3/41

All: 653.513+/-0.066 $\chi^2$/NDF: 2558257.1/78


cor_asym_sam_15_dd_mean vs Slug, Sign Corrected
600
400
200
0
−200
−400
−600
−800
−1000
100
110
120
130
140
150
160
170
180
Right In: 32.312+/-34.429 χ²/NDF: 17.3/15
Left Out: -193.356+/-24.947 χ²/NDF:29.6/22
Right Out: -11.576+/-33.548 χ²/NDF: 17.2/18
Left In: -161.183+/-26.139 χ²/NDF:19.8/20
Left: -178.020+/-18.047 χ²/NDF: 50.2/43
Right: 9.800+/-24.028 χ²/NDF: 35.3/34
In: -90.433+/-20.819 χ²/NDF:57.1/36
Out: -128.631+/-20.019 χ²/NDF:65.7/41
All: -110.280+/-14.430 χ²/NDF: 124.6/78




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 106.161+/-0.018 $\chi^2$/NDF:412314.2/22

Right Out: 91.332+/-0.024 $\chi^2$/NDF: 104918.3/18

Left In: 108.012+/-0.018 $\chi^2$/NDF:318784.7/20

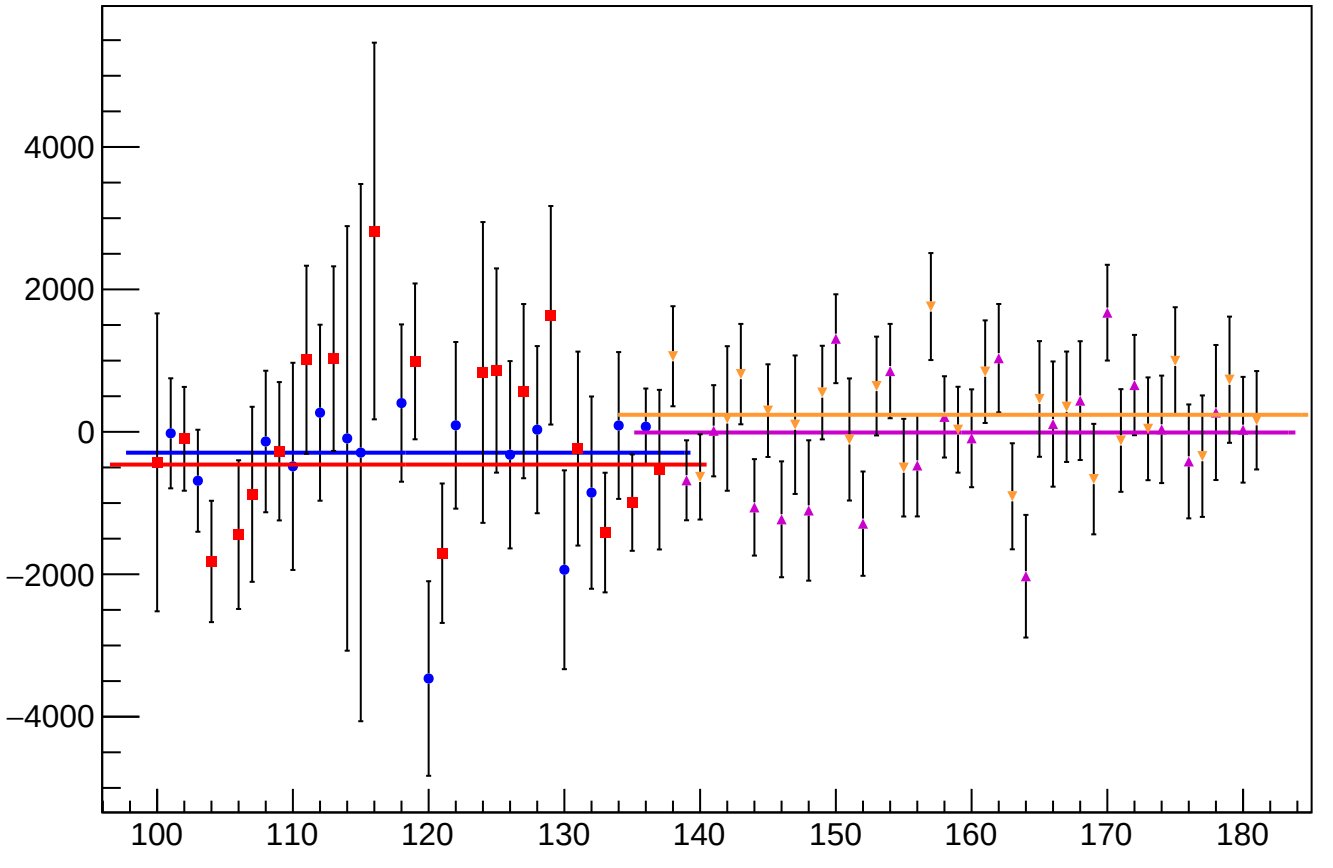
Left: 107.044+/-0.013 $\chi^2$/NDF: 736346.1/43

Right: 91.805+/-0.017 $\chi^2$/NDF: 212799.4/34

In: 102.268+/-0.015 $\chi^2$/NDF:690006.0/36

Out: 100.881+/-0.014 $\chi^2$/NDF:768871.8/41

All: 101.547+/-0.010 $\chi^2$/NDF: 1463488.5/78




Right In: -292.753+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 239.440+/-153.307 $\chi^2$/NDF:16.9/22

Right Out: -459.595+/-249.543 $\chi^2$/NDF: 17.1/18

Left In: -9.354+/-157.210 $\chi^2$/NDF:32.3/20

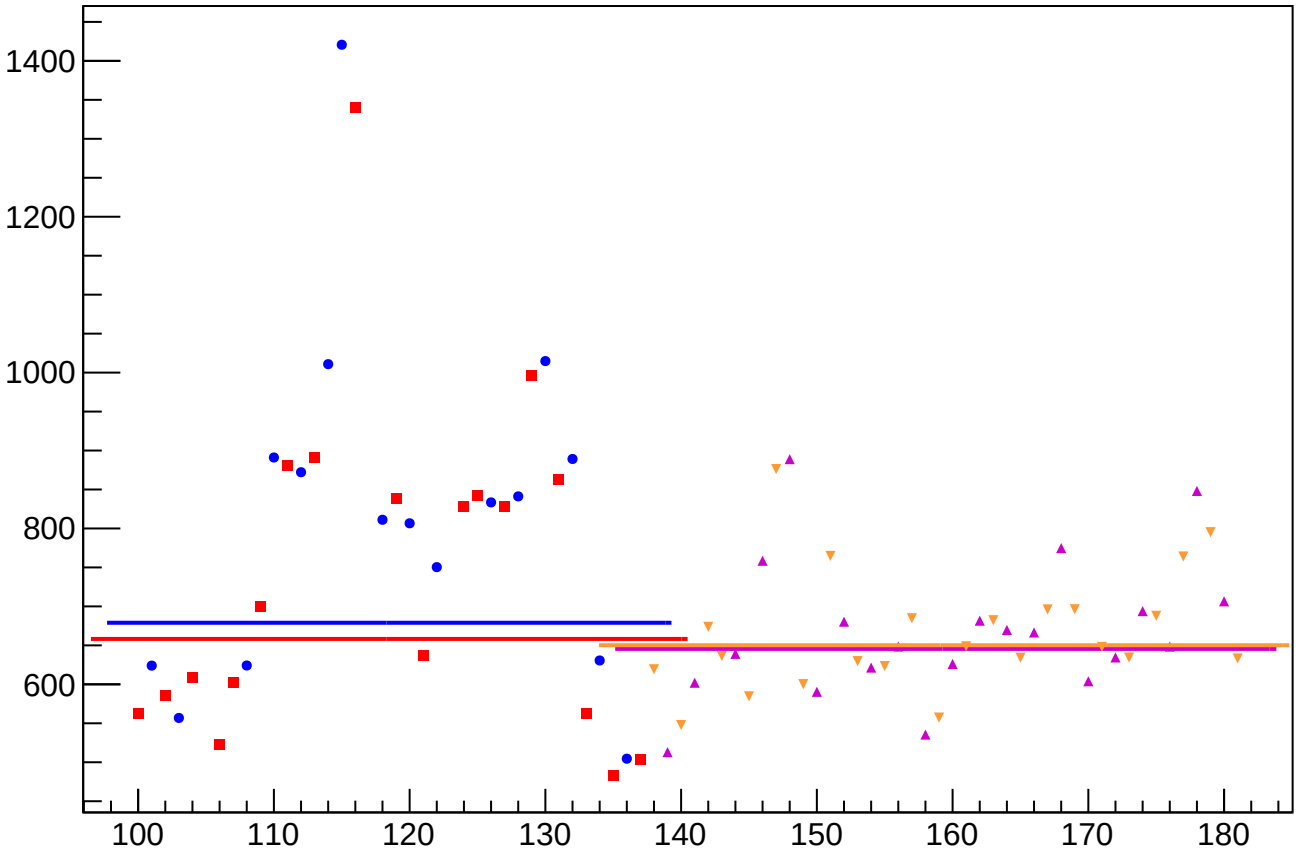
Left: 118.169+/-109.758 $\chi^2$/NDF: 50.5/43

Right: -379.498+/-179.935 $\chi^2$/NDF: 26.1/34

In: -85.359+/-134.487 $\chi^2$/NDF:42.0/36

Out: 47.898+/-130.626 $\chi^2$/NDF:39.7/41

All: -16.790+/-93.702 $\chi^2$/NDF: 82.2/78




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767985.6/15

Left Out: 650.177+/-0.108 $\chi^2$/NDF:411394.2/22

Right Out: 658.262+/-0.176 $\chi^2$/NDF: 805898.2/18

Left In: 645.433+/-0.111 $\chi^2$/NDF:556483.5/20

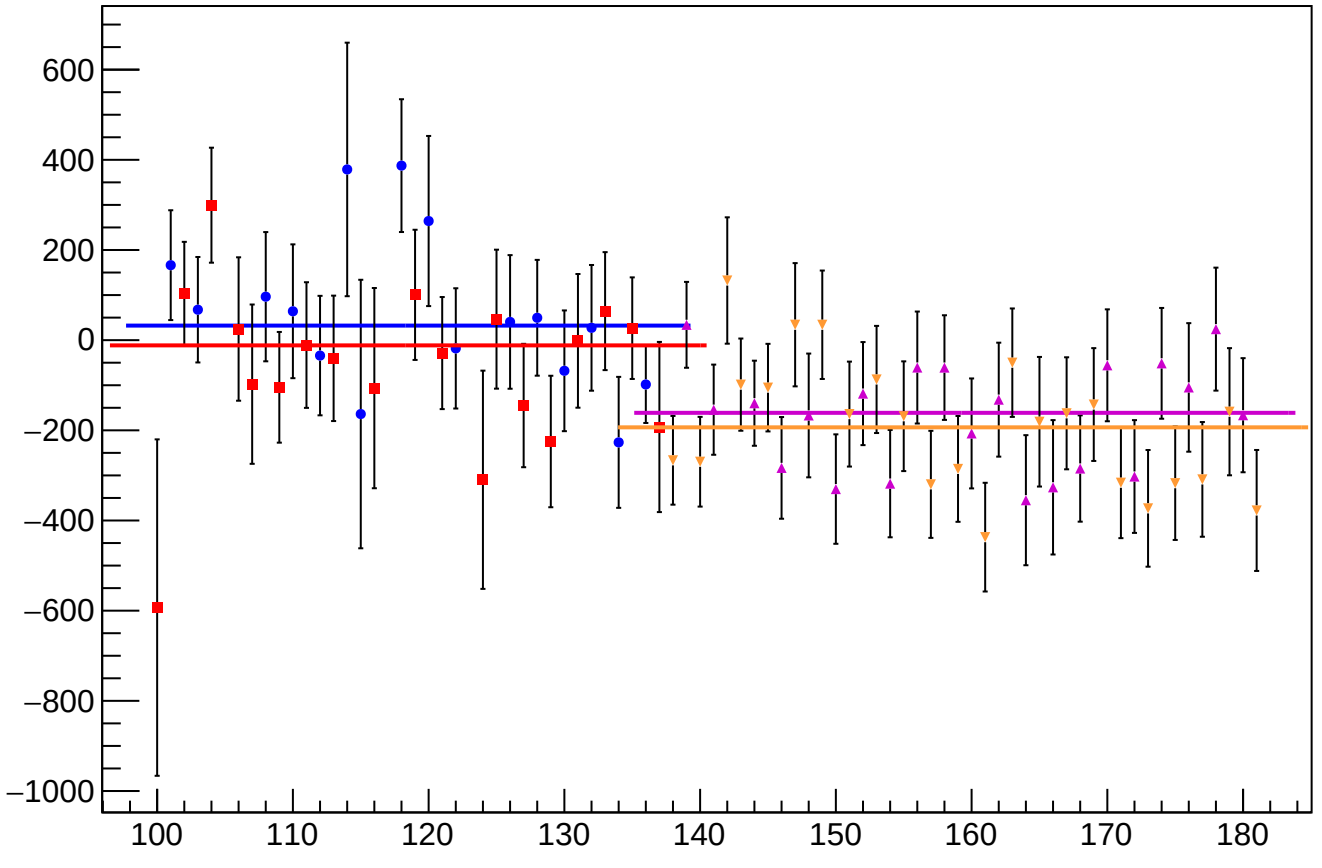
Left: 647.865+/-0.078 $\chi^2$/NDF: 968811.4/43

Right: 668.219+/-0.127 $\chi^2$/NDF: 1580516.6/34

In: 654.436+/-0.095 $\chi^2$/NDF:1348926.4/36

Out: 652.393+/-0.092 $\chi^2$/NDF:1218816.3/41

All: 653.384+/-0.066 $\chi^2$/NDF: 2567980.2/78




Right In: 32.312+/-34.429 $\chi^2$/NDF: 17.3/15

Left Out: -193.356+/-24.947 $\chi^2$/NDF:29.6/22

Right Out: -11.576+/-33.548 $\chi^2$/NDF: 17.2/18

Left In: -161.183+/-26.139 $\chi^2$/NDF:19.8/20

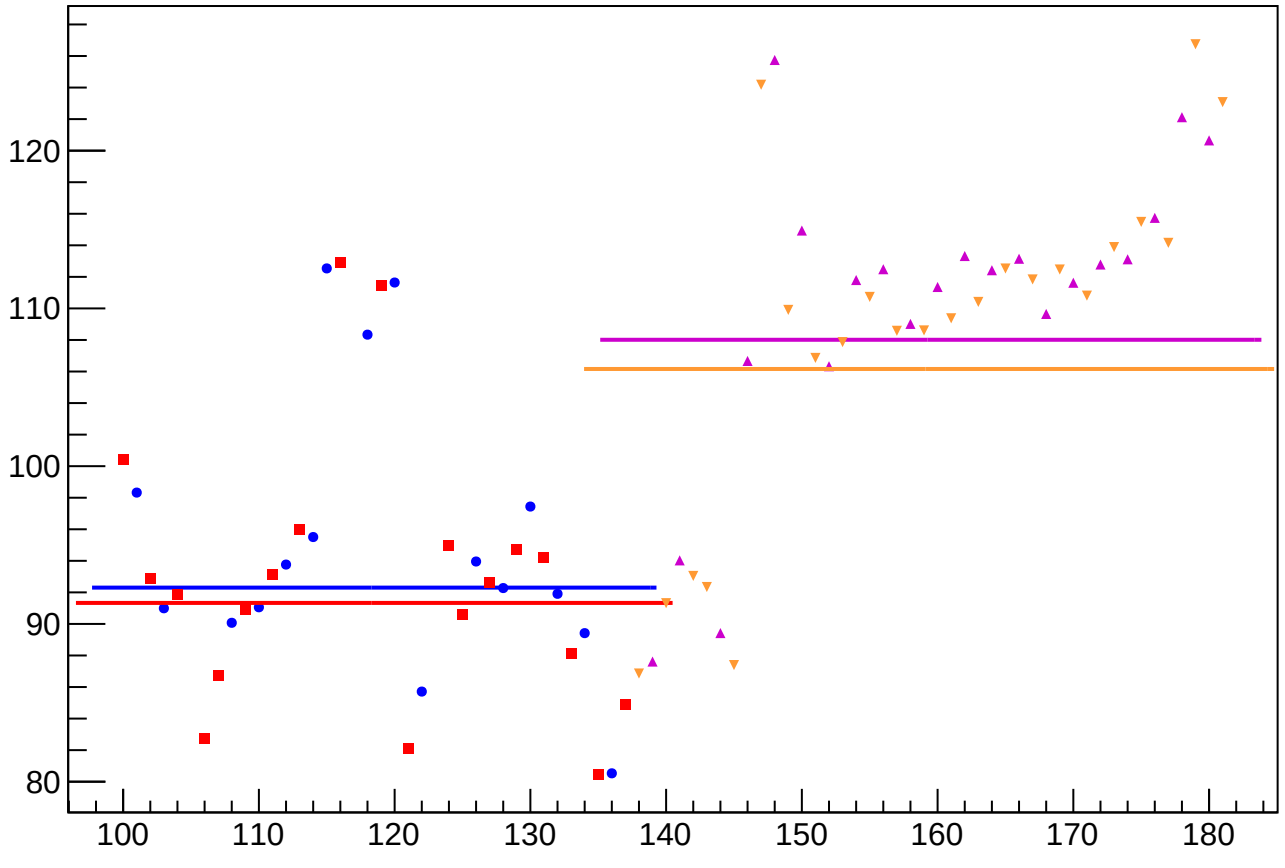
Left: -178.020+/-18.047 $\chi^2$/NDF: 50.2/43

Right: 9.800+/-24.028 $\chi^2$/NDF: 35.3/34

In: -90.433+/-20.819 $\chi^2$/NDF:57.1/36

Out: -128.631+/-20.019 $\chi^2$/NDF:65.7/41

All: -110.280+/-14.430 $\chi^2$/NDF: 124.6/78




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 106.161+/-0.018 $\chi^2$/NDF:412314.2/22

Right Out: 91.332+/-0.024 $\chi^2$/NDF: 104918.3/18

Left In: 108.012+/-0.018 $\chi^2$/NDF:318784.7/20

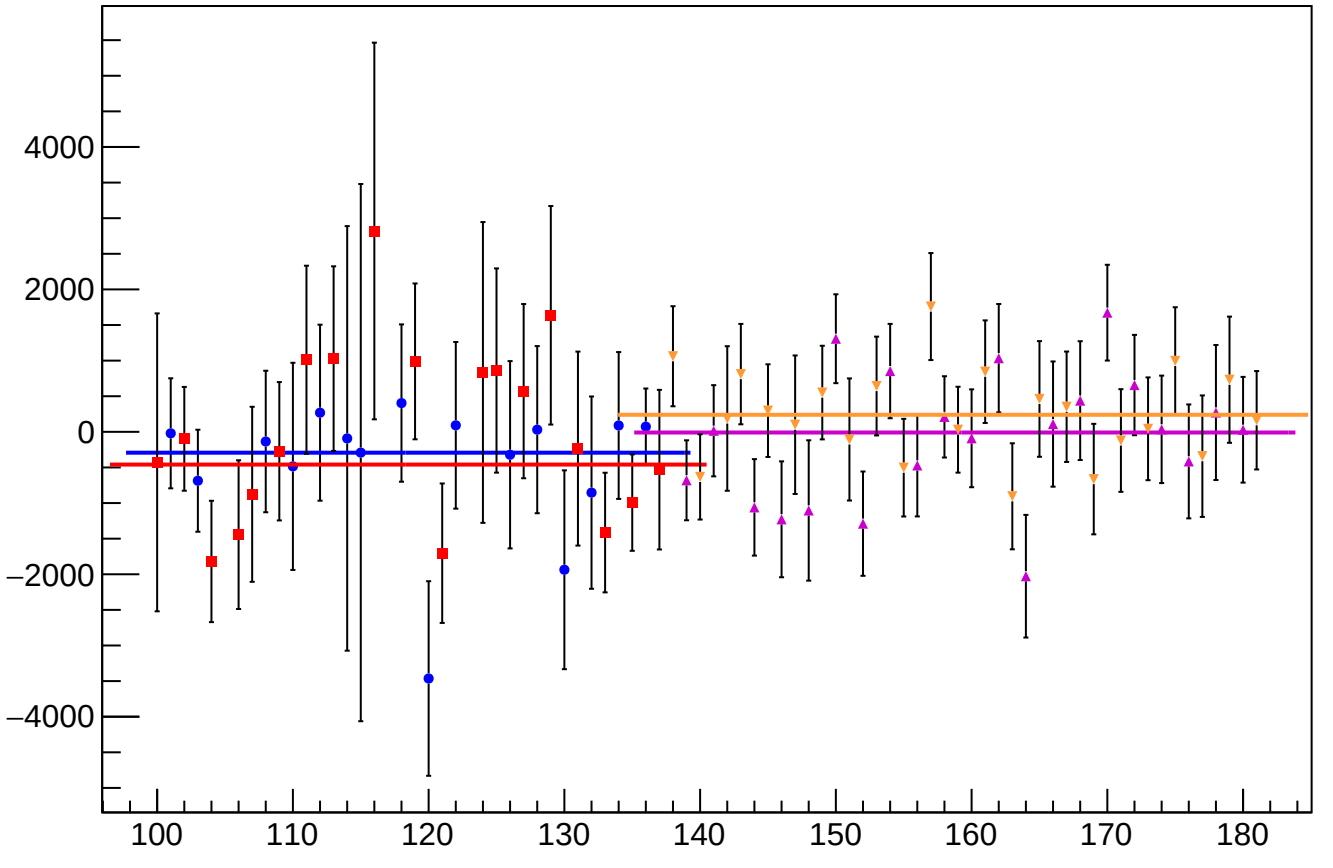
Left: 107.044+/-0.013 $\chi^2$/NDF: 736346.1/43

Right: 91.805+/-0.017 $\chi^2$/NDF: 212799.4/34

In: 102.268+/-0.015 $\chi^2$/NDF:690006.0/36

Out: 100.881+/-0.014 $\chi^2$/NDF:768871.8/41

All: 101.547+/-0.010 $\chi^2$/NDF: 1463488.5/78




Right In: -292.753+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 239.440+/-153.307 $\chi^2$/NDF:16.9/22

Right Out: -459.595+/-249.543 $\chi^2$/NDF: 17.1/18

Left In: -9.354+/-157.210 $\chi^2$/NDF:32.3/20

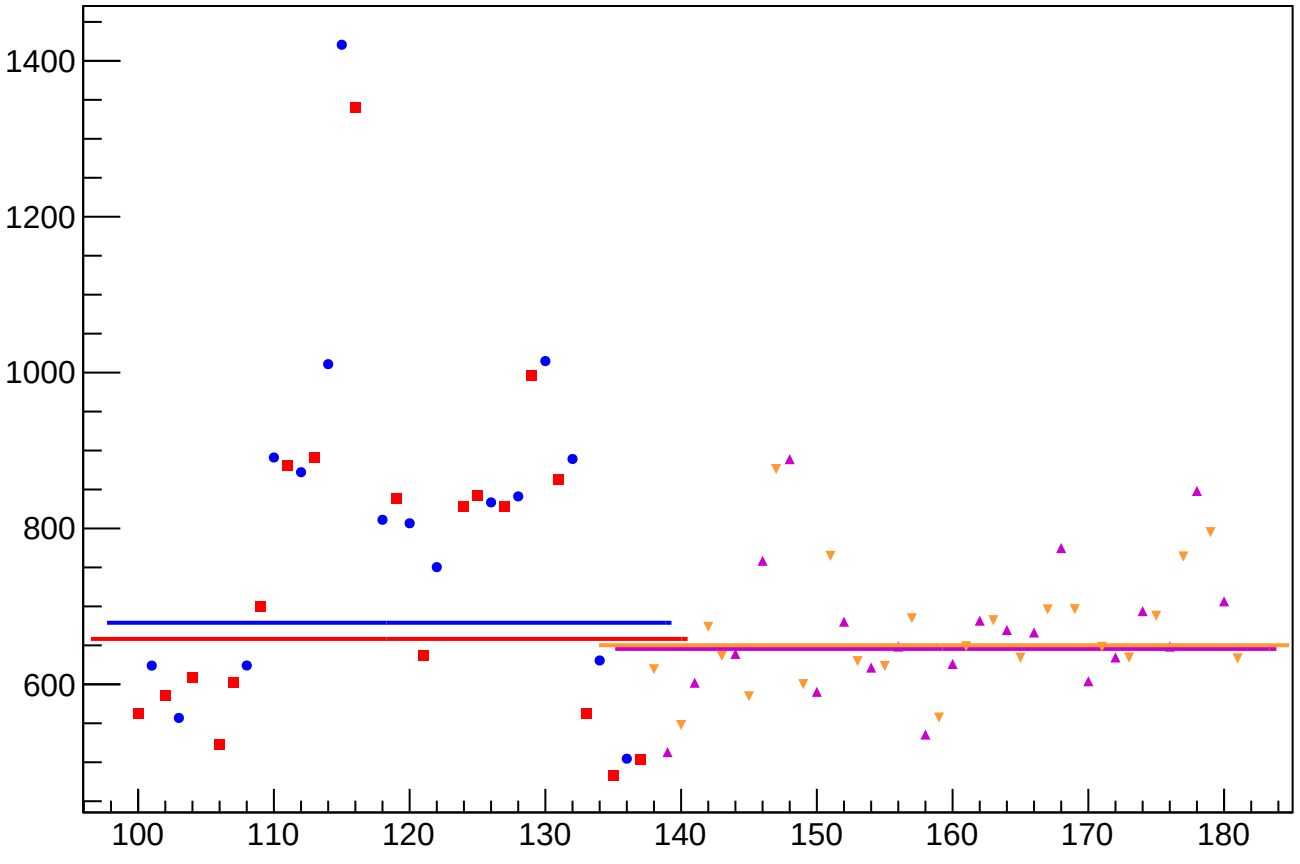
Left: 118.169+/-109.758 $\chi^2$/NDF: 50.5/43

Right: -379.498+/-179.935 $\chi^2$/NDF: 26.1/34

In: -85.359+/-134.487 $\chi^2$/NDF:42.0/36

Out: 47.898+/-130.626 $\chi^2$/NDF:39.7/41

All: -16.790+/-93.702 $\chi^2$/NDF: 82.2/78




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767985.6/15

Left Out: 650.177+/-0.108 $\chi^2$/NDF:411394.2/22

Right Out: 658.262+/-0.176 $\chi^2$/NDF: 805898.2/18

Left In: 645.433+/-0.111 $\chi^2$/NDF:556483.5/20

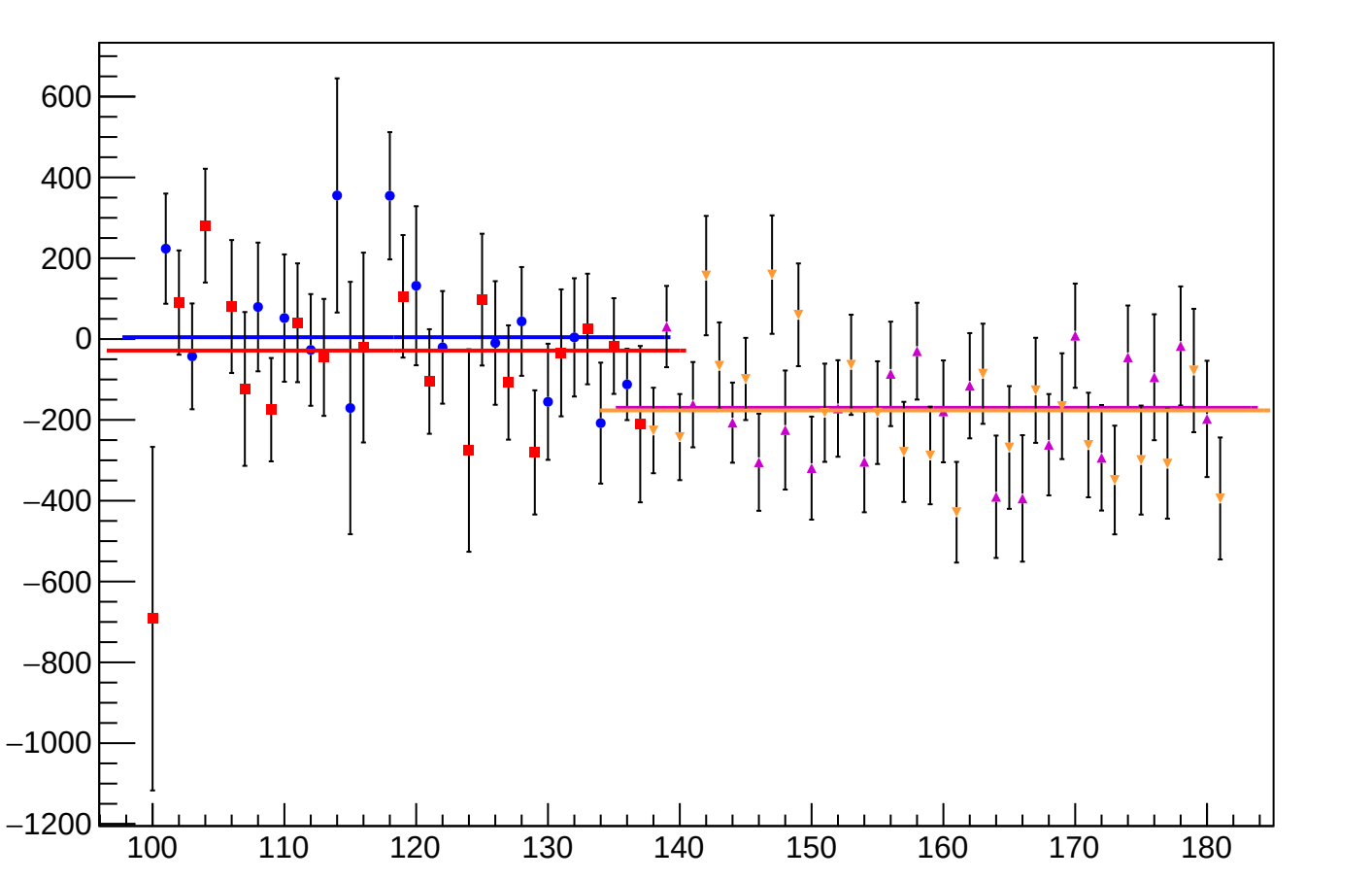
Left: 647.865+/-0.078 $\chi^2$/NDF: 968811.4/43

Right: 668.219+/-0.127 $\chi^2$/NDF: 1580516.6/34

In: 654.436+/-0.095 $\chi^2$/NDF:1348926.4/36

Out: 652.393+/-0.092 $\chi^2$/NDF:1218816.3/41

All: 653.384+/-0.066 $\chi^2$/NDF: 2567980.2/78




Right In: 4.619+/-36.509 $\chi^2$/NDF: 15.3/15

Left Out: -176.497+/-26.308 $\chi^2$/NDF:29.9/22

Right Out: -28.407+/-35.465 $\chi^2$/NDF: 17.1/18

Left In: -170.192+/-27.564 $\chi^2$/NDF:19.8/20

Left: -173.492+/-19.031 $\chi^2$/NDF: 49.8/43

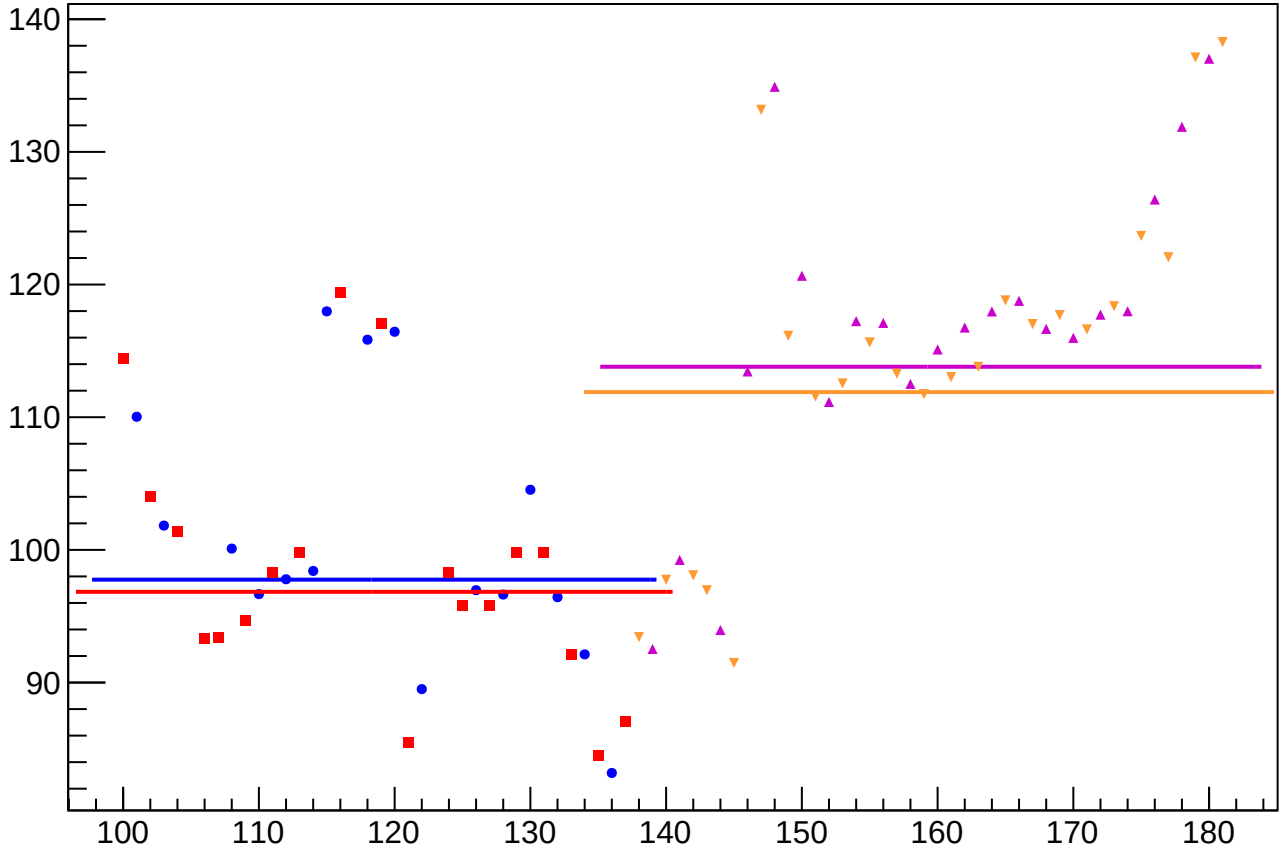
Right: -12.373+/-25.439 $\chi^2$/NDF: 32.9/34

In: -106.725+/-21.998 $\chi^2$/NDF:49.8/36

Out: -123.933+/-21.129 $\chi^2$/NDF:58.3/41

All: -115.676+/-15.239 $\chi^2$/NDF: 108.4/78

# dit_asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 97.756+/-0.026 $\chi^2$/NDF: 140654.4/15

Left Out: 111.895+/-0.019 $\chi^2$/NDF:440704.1/22

Right Out: 96.840+/-0.025 $\chi^2$/NDF: 115170.9/18

Left In: 113.803+/-0.019 $\chi^2$/NDF:364173.1/20

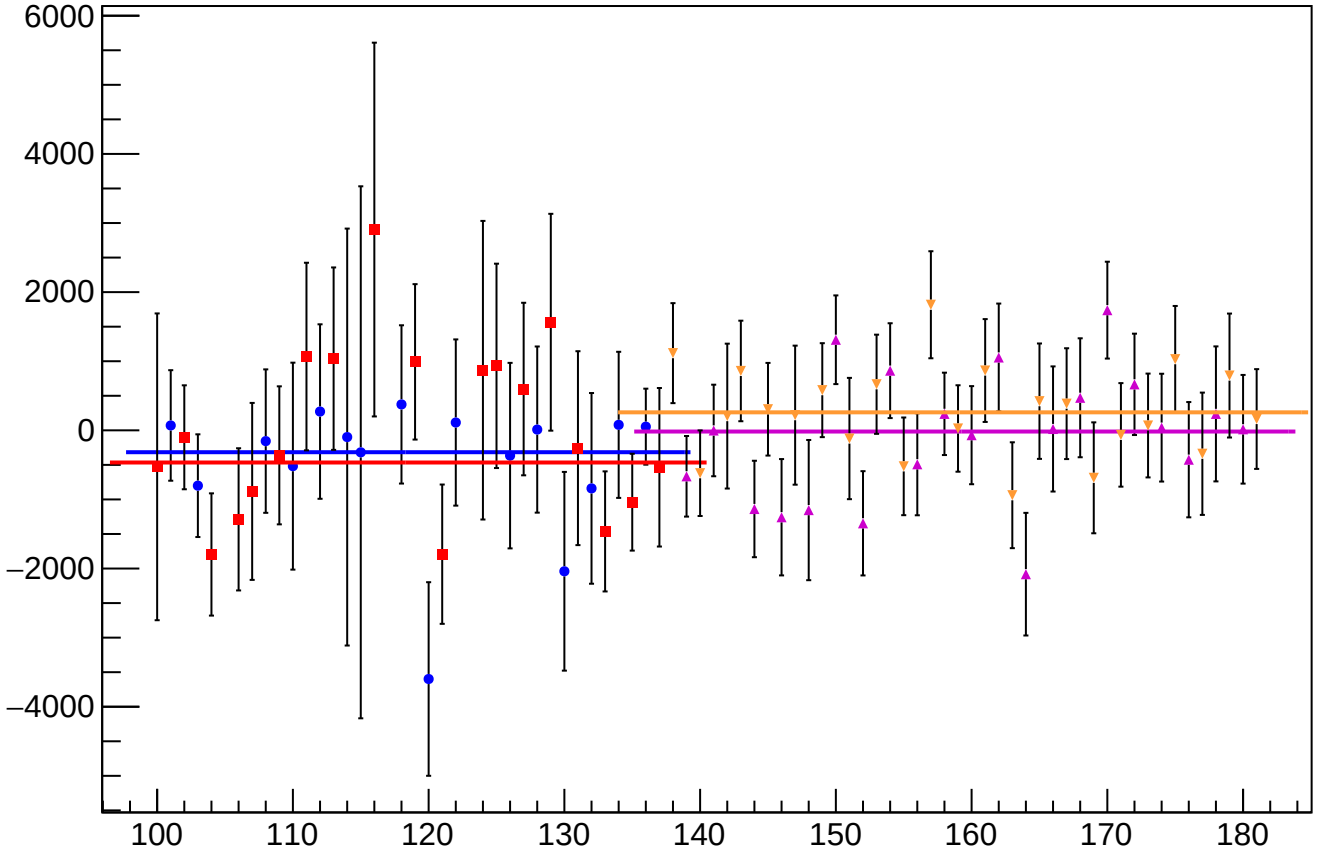
Left: 112.805+/-0.013 $\chi^2$/NDF: 809891.3/43

Right: 97.285+/-0.018 $\chi^2$/NDF: 256473.4/34

In: 107.977+/-0.016 $\chi^2$/NDF:750935.3/36

Out: 106.551+/-0.015 $\chi^2$/NDF:788376.8/41

All: 107.235+/-0.011 $\chi^2$/NDF: 1543681.3/78




Right In: -316.572+/-267.515 $\chi^2$/NDF: 9.2/15

Left Out: 260.395+/-158.337 $\chi^2$/NDF:16.9/22

Right Out: -465.576+/-256.646 $\chi^2$/NDF: 16.5/18

Left In: -17.370+/-162.824 $\chi^2$/NDF:32.0/20

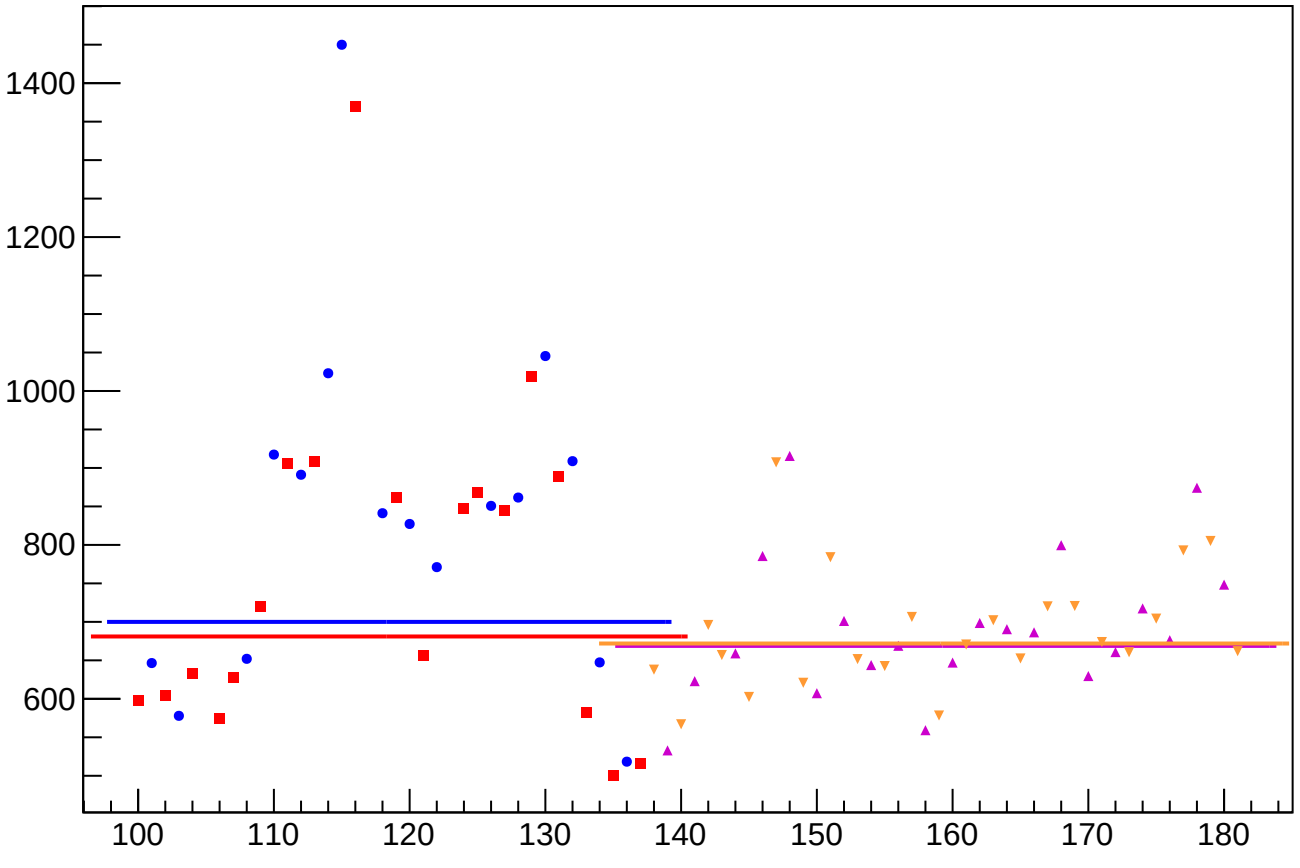
Left: 125.392+/-113.514 $\chi^2$/NDF: 50.3/43

Right: -394.162+/-185.199 $\chi^2$/NDF: 25.8/34

In: -98.250+/-139.087 $\chi^2$/NDF:42.0/36

Out: 60.252+/-134.755 $\chi^2$/NDF:39.2/41

All: -16.492+/-96.781 $\chi^2$/NDF: 81.9/78




Right In: 699.973+/-0.189 $\chi^2$/NDF: 753665.4/15

Left Out: 671.872+/-0.112 $\chi^2$/NDF:397014.1/22

Right Out: 681.016+/-0.181 $\chi^2$/NDF: 769397.2/18

Left In: 668.782+/-0.115 $\chi^2$/NDF:543827.0/20

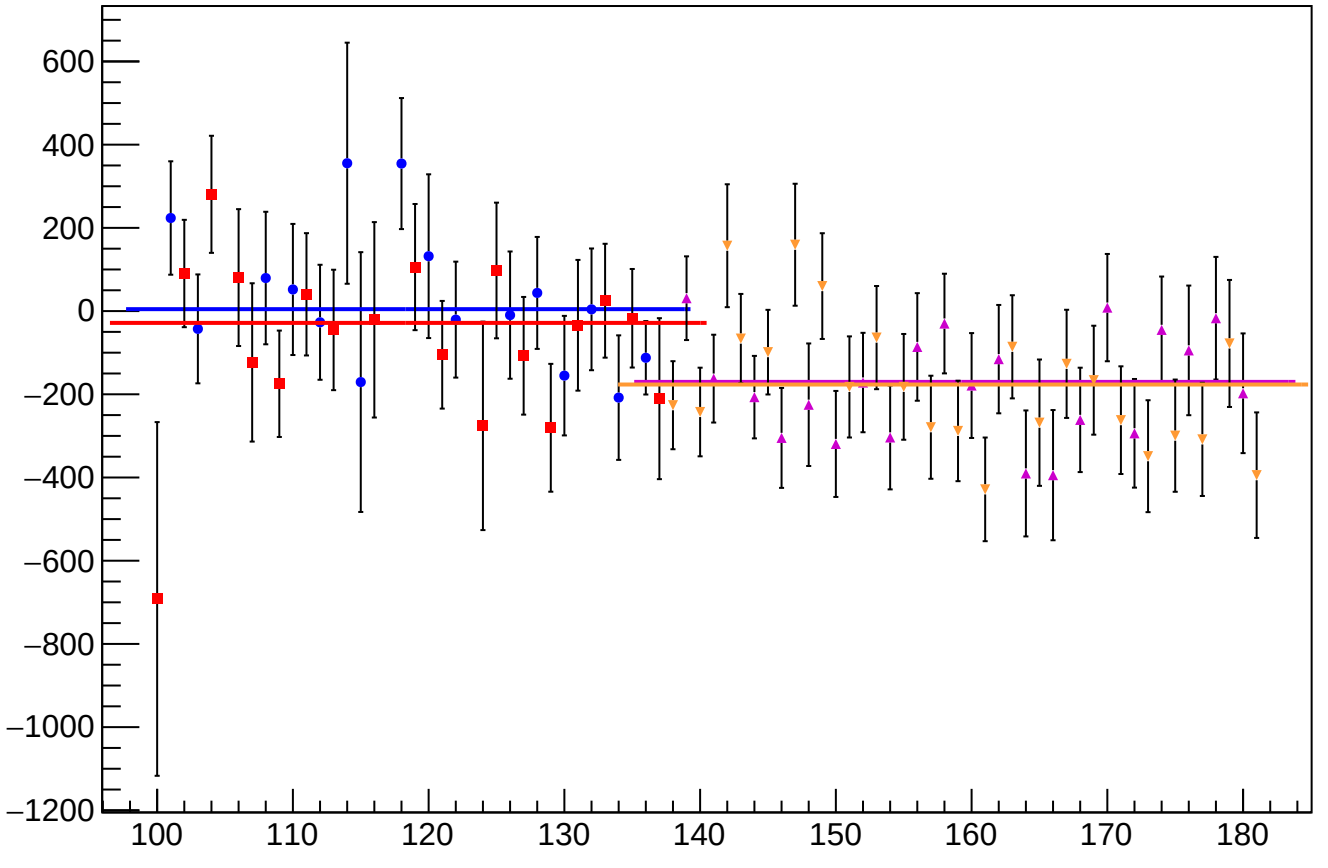
Left: 670.370+/-0.080 $\chi^2$/NDF: 941211.3/43

Right: 690.102+/-0.131 $\chi^2$/NDF: 1528292.0/34

In: 677.214+/-0.098 $\chi^2$/NDF:1317331.2/36

Out: 674.393+/-0.095 $\chi^2$/NDF:1168250.3/41

All: 675.759+/-0.068 $\chi^2$/NDF: 2486005.6/78




Right In: 4.620+/-36.509 $\chi^2$/NDF: 15.3/15

Left Out: -176.497+/-26.308 $\chi^2$/NDF:29.9/22

Right Out: -28.407+/-35.465 $\chi^2$/NDF: 17.1/18

Left In: -170.192+/-27.564 $\chi^2$/NDF:19.8/20

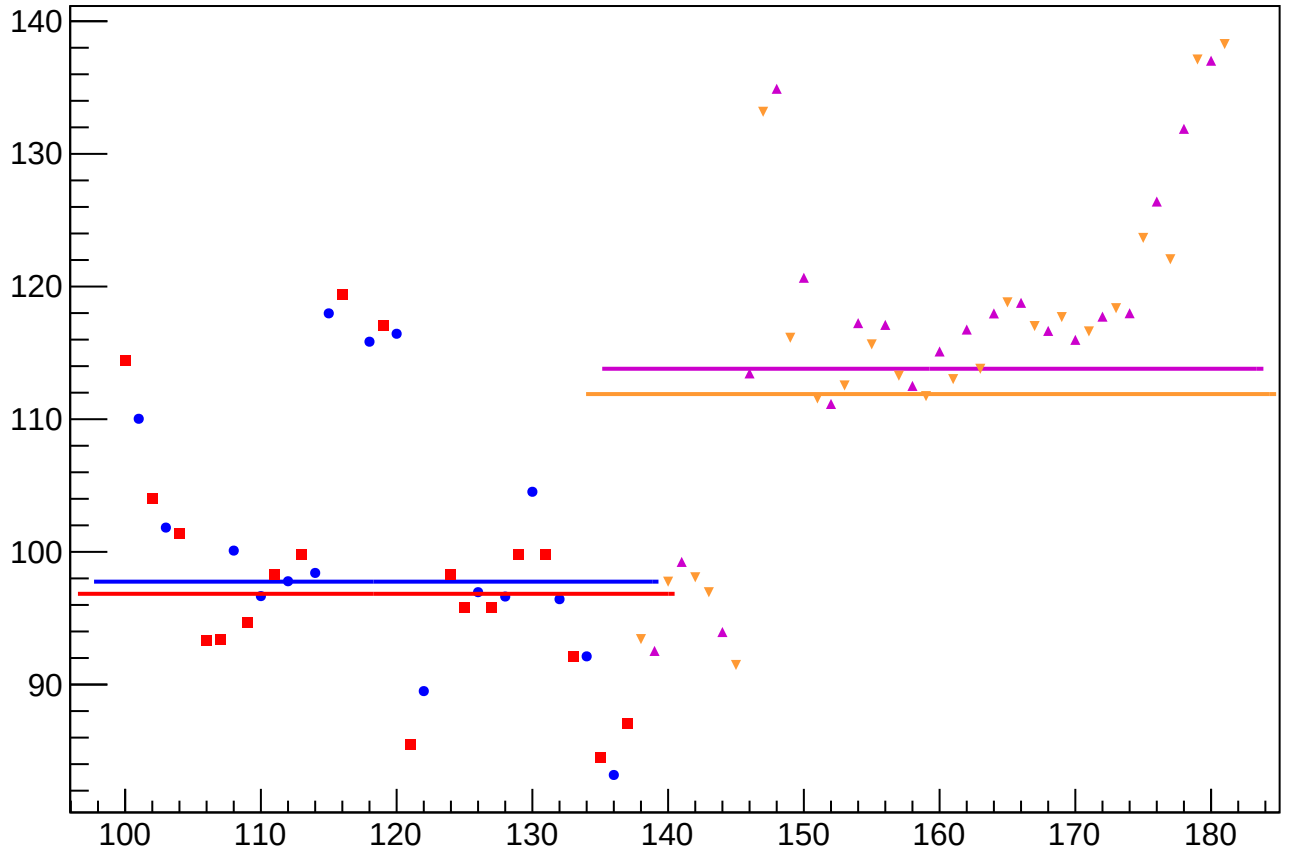
Left: -173.492+/-19.031 $\chi^2$/NDF: 49.8/43

Right: -12.373+/-25.438 $\chi^2$/NDF: 32.9/34

In: -106.724+/-21.998 $\chi^2$/NDF:49.8/36

Out: -123.933+/-21.129 $\chi^2$/NDF:58.3/41

All: -115.675+/-15.239 $\chi^2$/NDF: 108.4/78




Right In: 97.756+/-0.026 $\chi^2$/NDF: 140654.8/15

Left Out: 111.895+/-0.019 $\chi^2$/NDF:440697.8/22

Right Out: 96.839+/-0.025 $\chi^2$/NDF: 115173.1/18

Left In: 113.803+/-0.019 $\chi^2$/NDF:364170.4/20

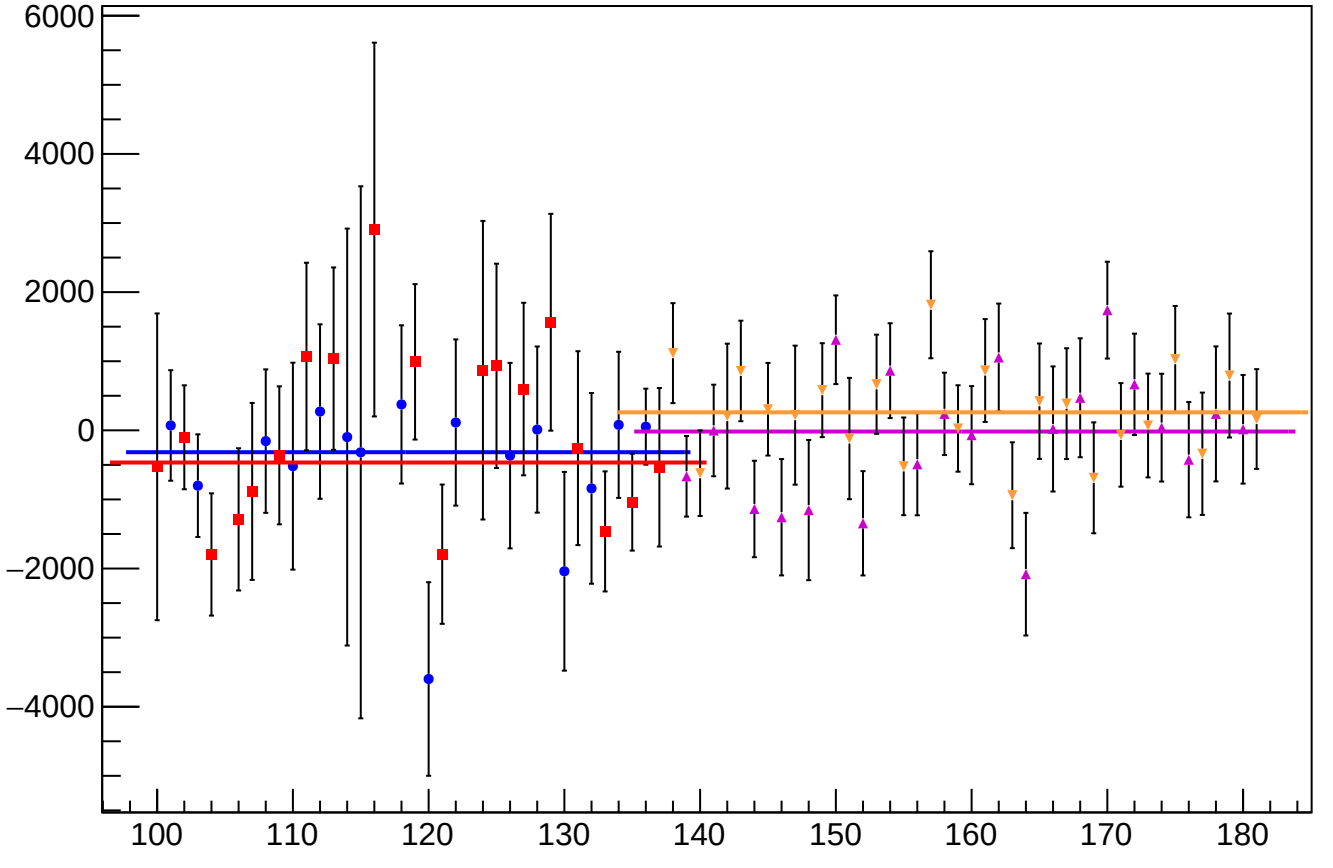
Left: 112.805+/-0.013 $\chi^2$/NDF: 809882.8/43

Right: 97.284+/-0.018 $\chi^2$/NDF: 256476.1/34

In: 107.977+/-0.016 $\chi^2$/NDF:750945.5/36

Out: 106.551+/-0.015 $\chi^2$/NDF:788384.1/41

All: 107.235+/-0.011 $\chi^2$/NDF: 1543699.3/78




Right In: -316.570+/-267.515 $\chi^2$/NDF: 9.2/15

Left Out: 260.395+/-158.337 $\chi^2$/NDF:16.9/22

Right Out: -465.576+/-256.645 $\chi^2$/NDF: 16.5/18

Left In: -17.371+/-162.824 $\chi^2$/NDF:32.0/20

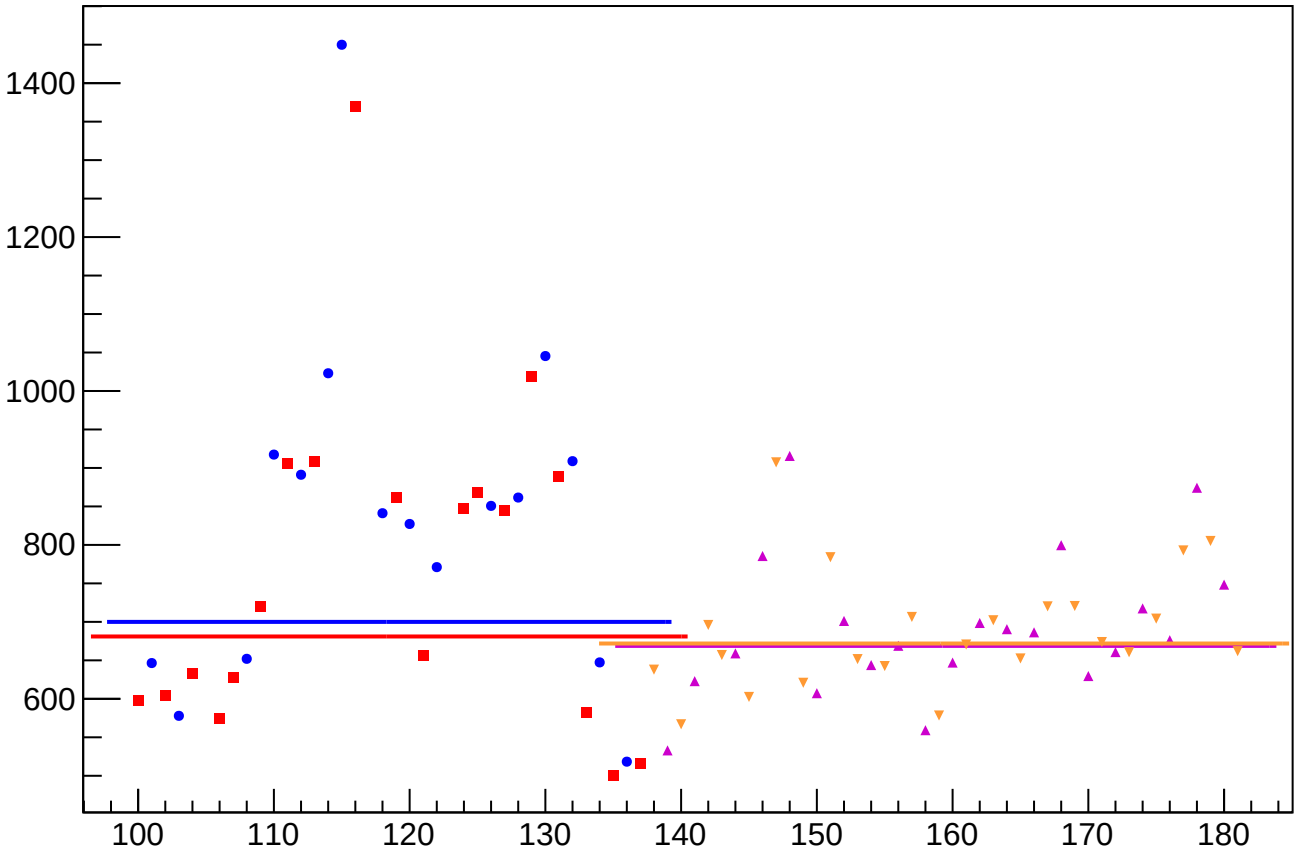
Left: 125.392+/-113.515 $\chi^2$/NDF: 50.3/43

Right: -394.162+/-185.199 $\chi^2$/NDF: 25.8/34

In: -98.250+/-139.087 $\chi^2$/NDF:42.0/36

Out: 60.251+/-134.755 $\chi^2$/NDF:39.2/41

All: -16.493+/-96.781 $\chi^2$/NDF: 81.9/78




Right In: 699.971+/-0.189 $\chi^2$/NDF: 753668.1/15

Left Out: 671.873+/-0.112 $\chi^2$/NDF:397014.4/22

Right Out: 681.015+/-0.181 $\chi^2$/NDF: 769400.5/18

Left In: 668.783+/-0.115 $\chi^2$/NDF:543829.0/20

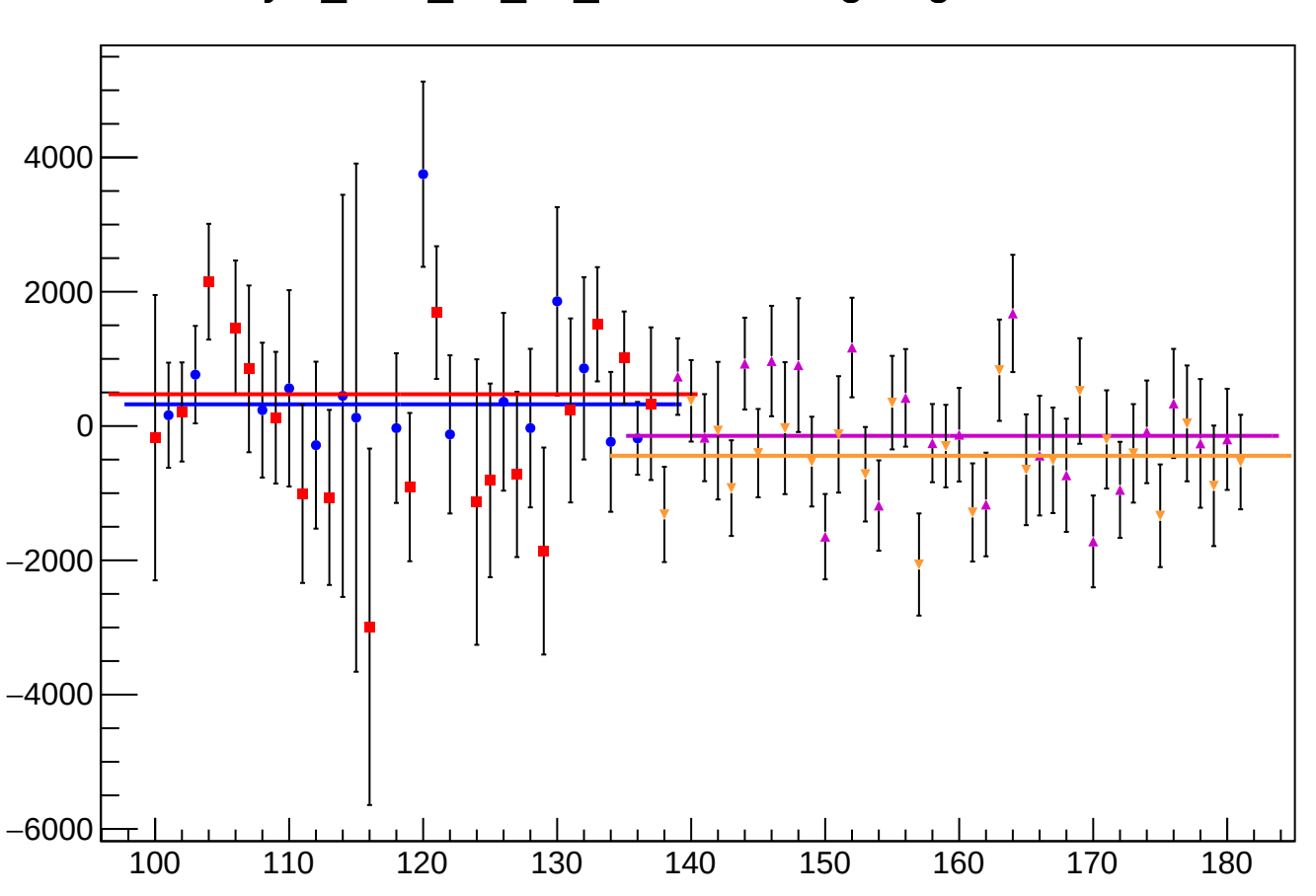
Left: 670.371+/-0.080 $\chi^2$/NDF: 941213.6/43

Right: 690.100+/-0.131 $\chi^2$/NDF: 1528298.1/34

In: 677.214+/-0.098 $\chi^2$/NDF:1317333.3/36

Out: 674.393+/-0.095 $\chi^2$/NDF:1168252.9/41

All: 675.759+/-0.068 $\chi^2$/NDF: 2486010.4/78




Right In: 323.198+/-262.332 $\chi^2$/NDF: 9.7/15

Left Out: -442.972+/-155.452 $\chi^2$/NDF:18.1/22

Right Out: 473.233+/-251.330 $\chi^2$/NDF: 19.4/18

Left In: -146.161+/-159.508 $\chi^2$/NDF:33.2/20

Left: -298.389+/-111.328 $\chi^2$/NDF: 53.1/43

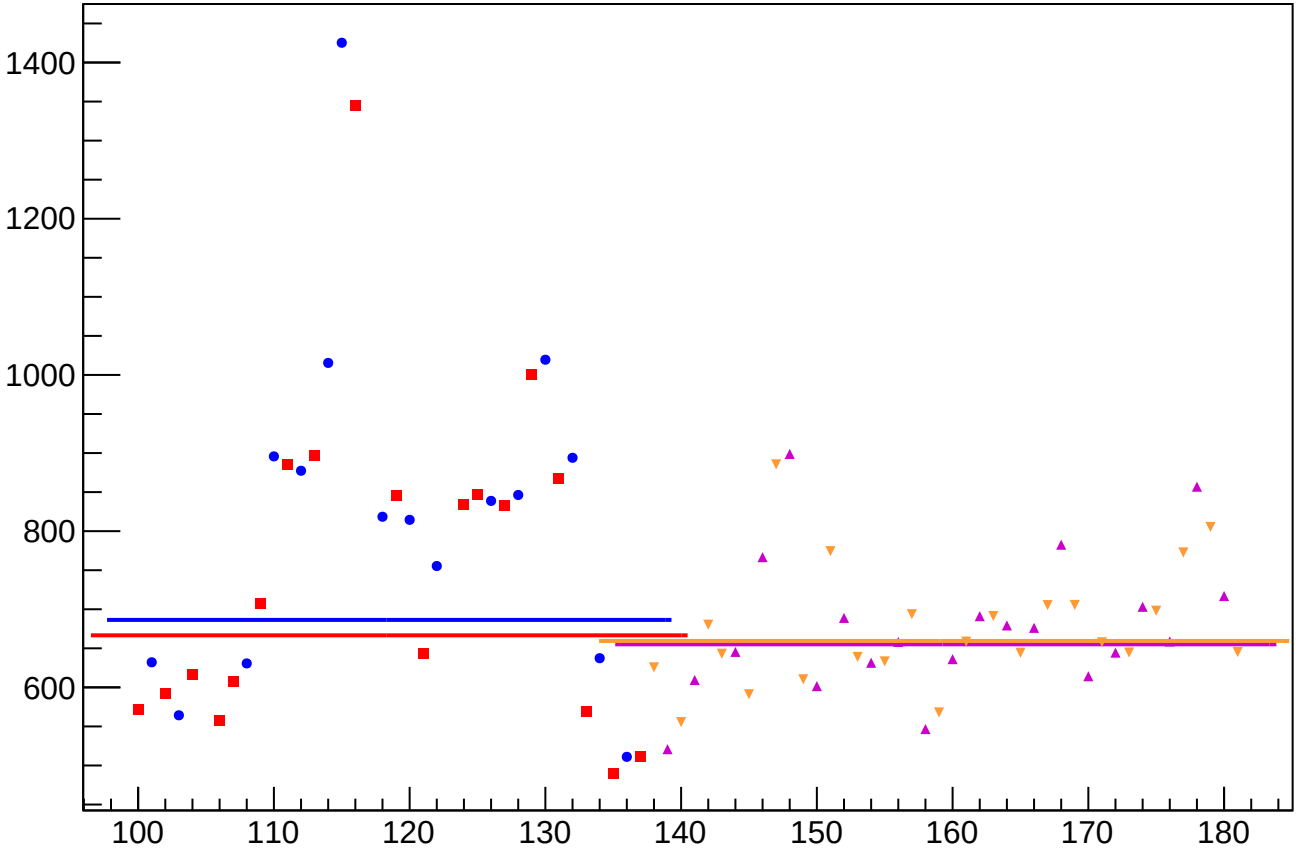
Right: 401.428+/-181.482 $\chi^2$/NDF: 29.3/34

In: -19.471+/-136.292 $\chi^2$/NDF:45.3/36

Out: -189.453+/-132.207 $\chi^2$/NDF:47.1/41

All: -107.048+/-94.895 $\chi^2$/NDF: 93.2/78

# asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 686.394+/-0.185 $\chi^2$/NDF: 749454.8/15

Left Out: 659.455+/-0.110 $\chi^2$/NDF:403566.2/22

Right Out: 666.634+/-0.178 $\chi^2$/NDF: 777033.6/18

Left In: 655.112+/-0.113 $\chi^2$/NDF:540179.0/20

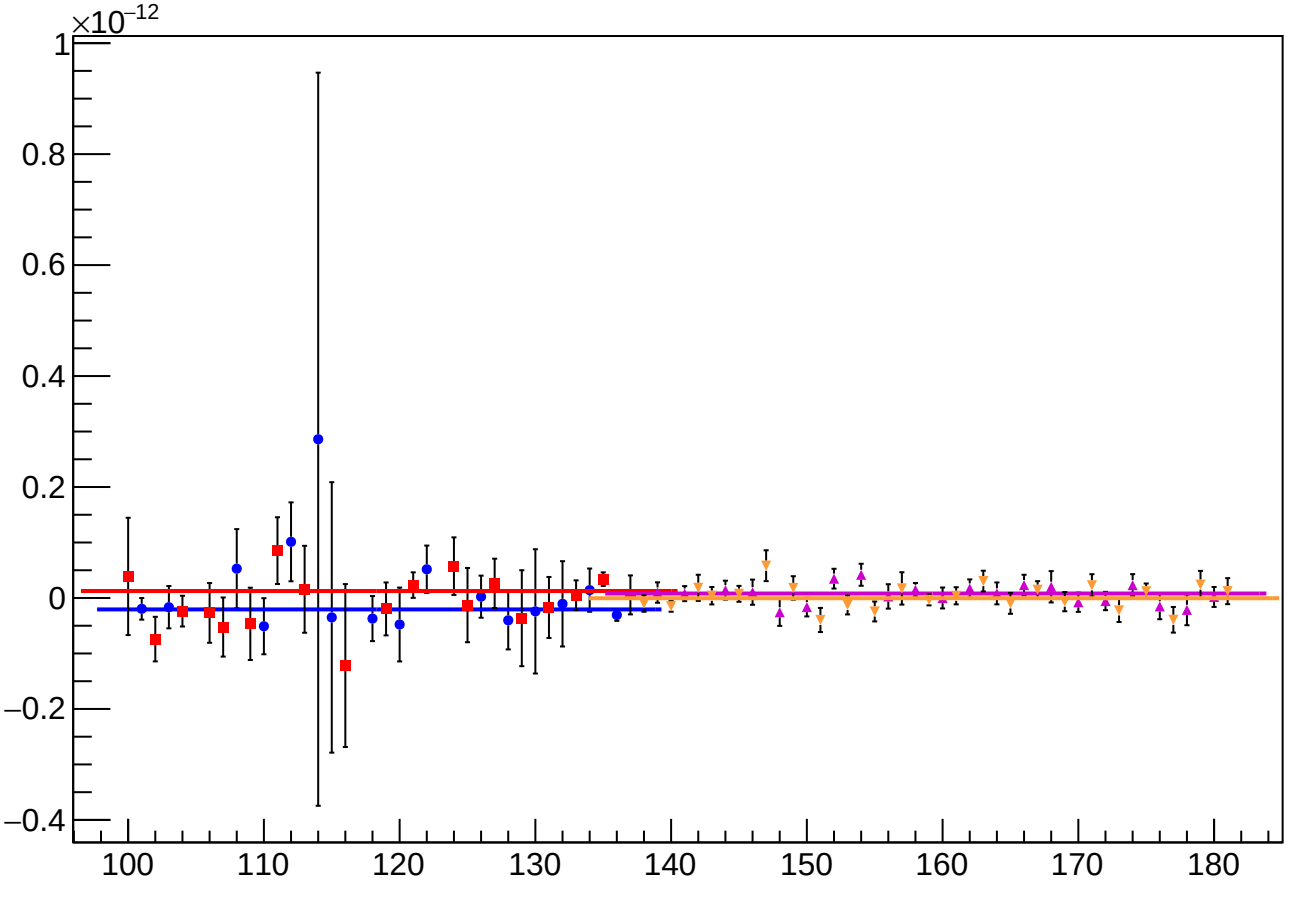
Left: 657.339+/-0.079 $\chi^2$/NDF: 944505.4/43

Right: 676.091+/-0.128 $\chi^2$/NDF: 1532404.9/34

In: 663.556+/-0.096 $\chi^2$/NDF:1310396.4/36

Out: 661.441+/-0.093 $\chi^2$/NDF:1181780.4/41

All: 662.466+/-0.067 $\chi^2$/NDF: 2492424.8/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.3/20

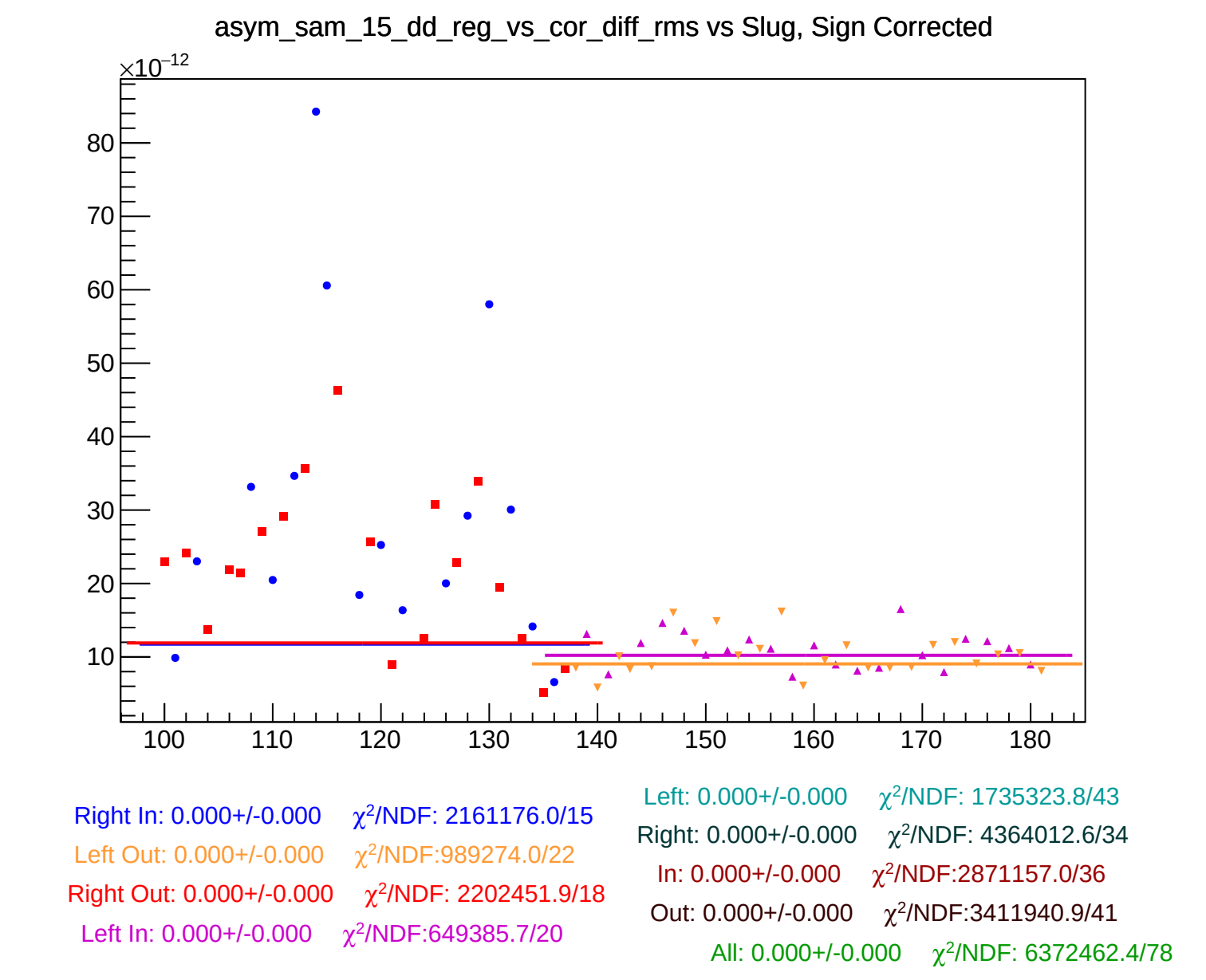
Left: 0.000+/-0.000 $\chi^2$/NDF: 44.0/43

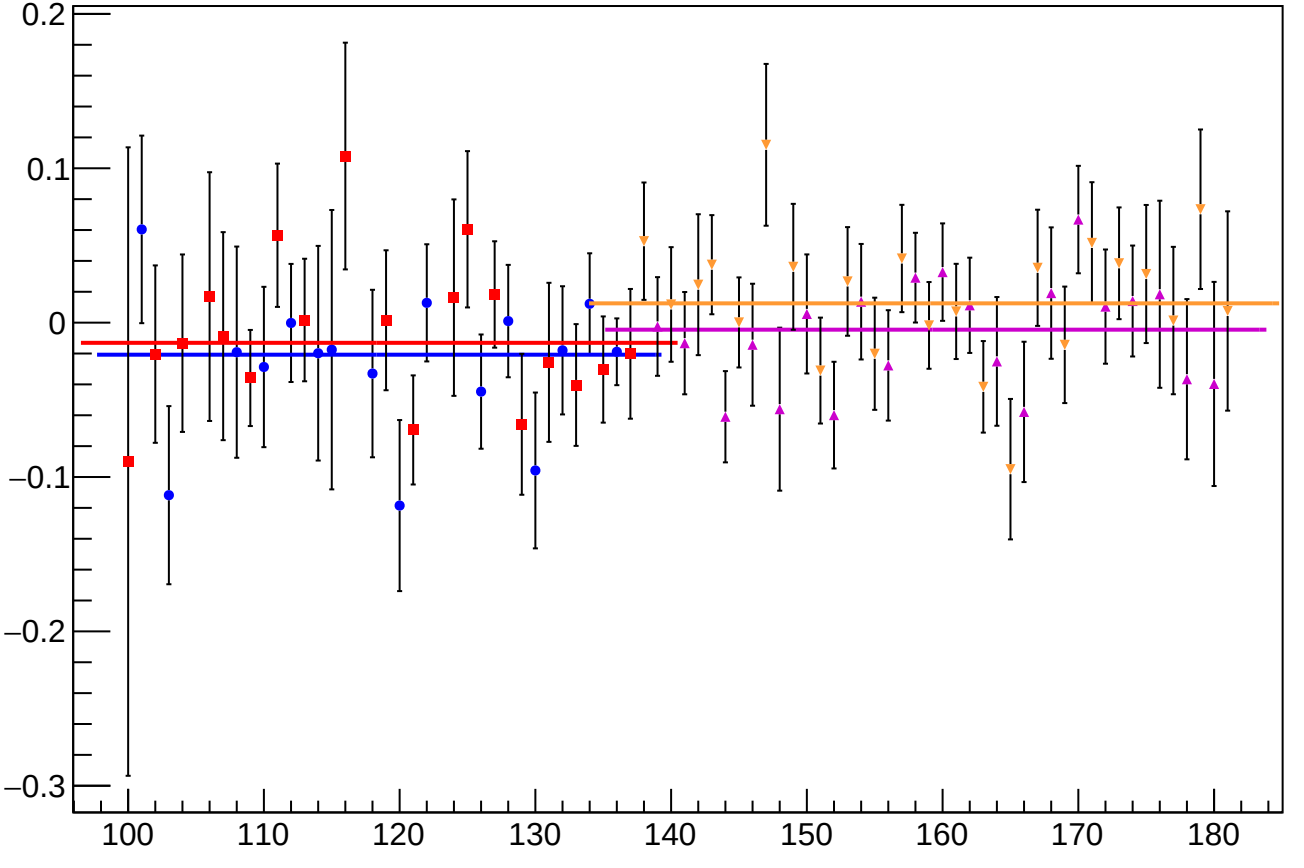
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:35.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:45.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 81.5/78


asym_sam_15_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
80
70
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2161176.0/15
Left Out: 0.000+/-0.000 χ²/NDF:989274.0/22
Right Out: 0.000+/-0.000 χ²/NDF: 2202451.9/18
Left In: 0.000+/-0.000 χ²/NDF:649385.7/20
Left: 0.000+/-0.000 χ²/NDF: 1735323.8/43
Right: 0.000+/-0.000 χ²/NDF: 4364012.6/34
In: 0.000+/-0.000 χ²/NDF:2871157.0/36
Out: 0.000+/-0.000 χ²/NDF:3411940.9/41
All: 0.000+/-0.000 χ²/NDF: 6372462.4/78




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.013+/-0.008 $\chi^2$/NDF:22.6/22

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.005+/-0.008 $\chi^2$/NDF:18.4/20

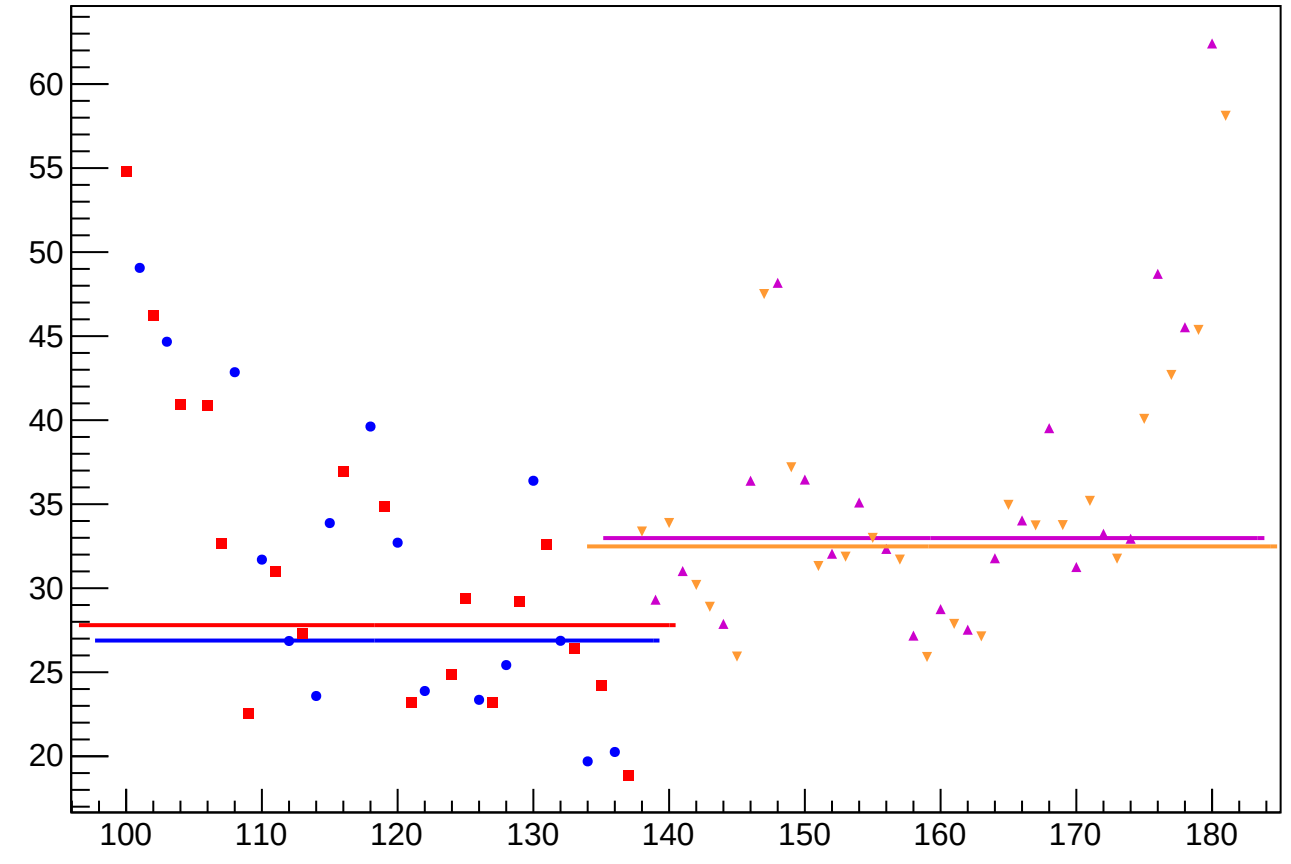
Left: 0.004+/-0.006 $\chi^2$/NDF: 43.3/43

Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.011+/-0.006 $\chi^2$/NDF:32.4/36

Out: 0.003+/-0.006 $\chi^2$/NDF:40.4/41

All: -0.003+/-0.004 $\chi^2$/NDF: 75.3/78




Right In: 26.886+/-0.007 $\chi^2$/NDF: 1120557.7/15

Left Out: 32.487+/-0.005 $\chi^2$/NDF:1158694.4/22

Right Out: 27.802+/-0.007 $\chi^2$/NDF: 763106.1/18

Left In: 32.983+/-0.006 $\chi^2$/NDF:1179067.6/20

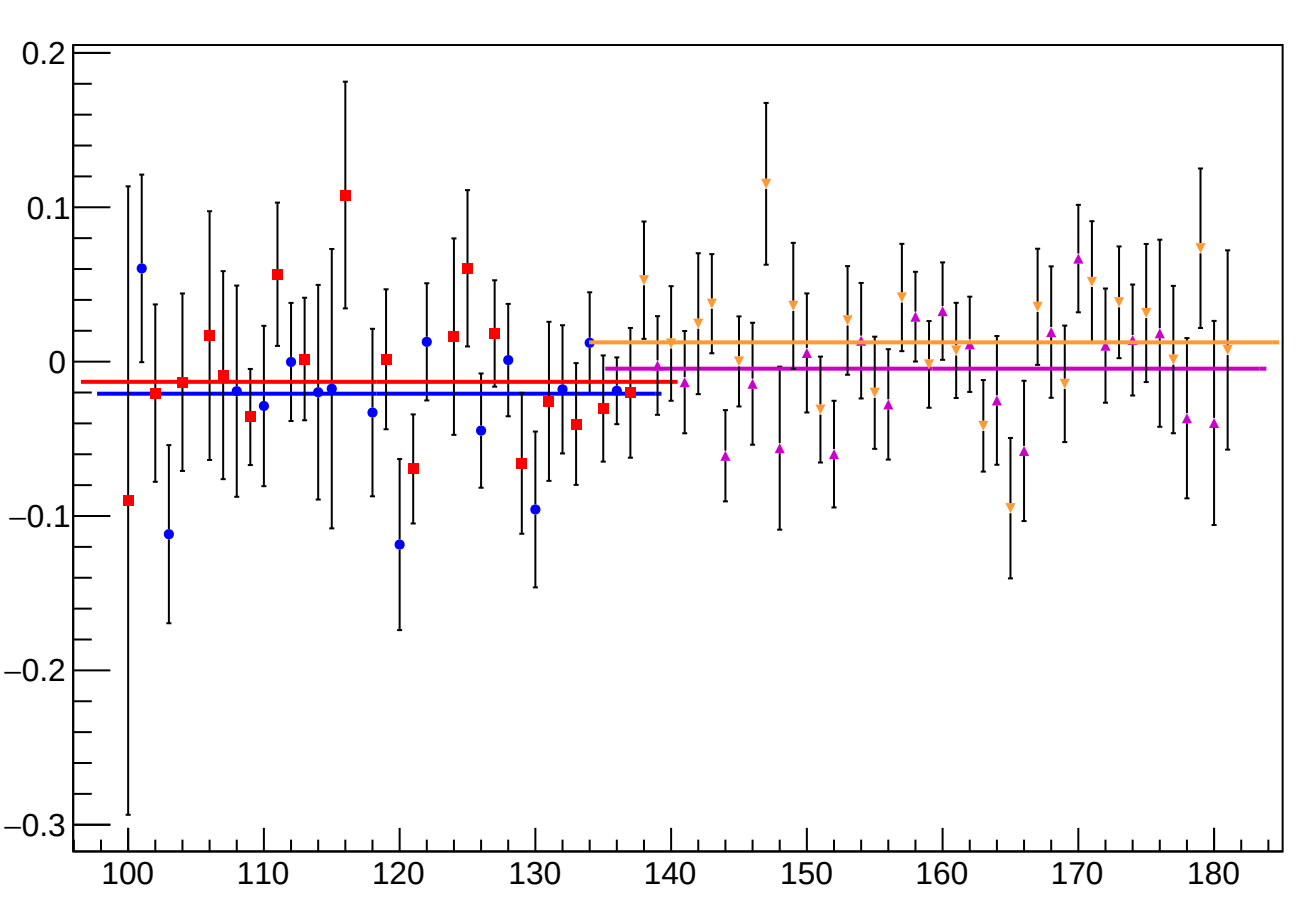
Left: 32.724+/-0.004 $\chi^2$/NDF: 2341640.6/43

Right: 27.342+/-0.005 $\chi^2$/NDF: 1891228.7/34

In: 30.697+/-0.005 $\chi^2$/NDF:2720379.3/36

Out: 30.838+/-0.004 $\chi^2$/NDF:2177811.5/41

All: 30.769+/-0.003 $\chi^2$/NDF: 4898686.3/78




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.013+/-0.008 $\chi^2$/NDF:22.6/22

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.005+/-0.008 $\chi^2$/NDF:18.4/20

Left: 0.004+/-0.006 $\chi^2$/NDF: 43.3/43

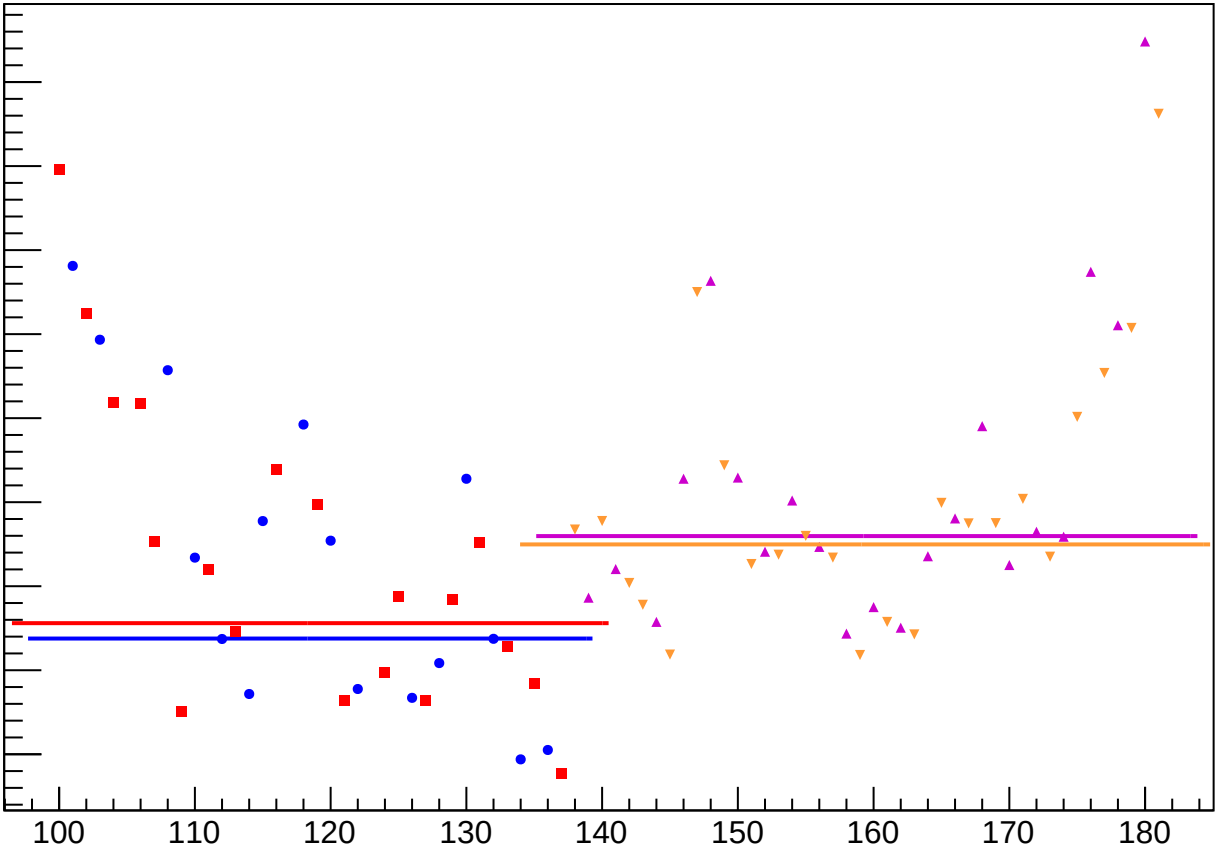
Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.011+/-0.006 $\chi^2$/NDF:32.4/36

Out: 0.003+/-0.006 $\chi^2$/NDF:40.4/41

All: -0.003+/-0.004 $\chi^2$/NDF: 75.3/78

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 26.886+/-0.007 $\chi^2$/NDF: 1120557.7/15

Left Out: 32.487+/-0.005 $\chi^2$/NDF:1158694.4/22

Right Out: 27.802+/-0.007 $\chi^2$/NDF: 763106.1/18

Left In: 32.983+/-0.006 $\chi^2$/NDF:1179067.6/20

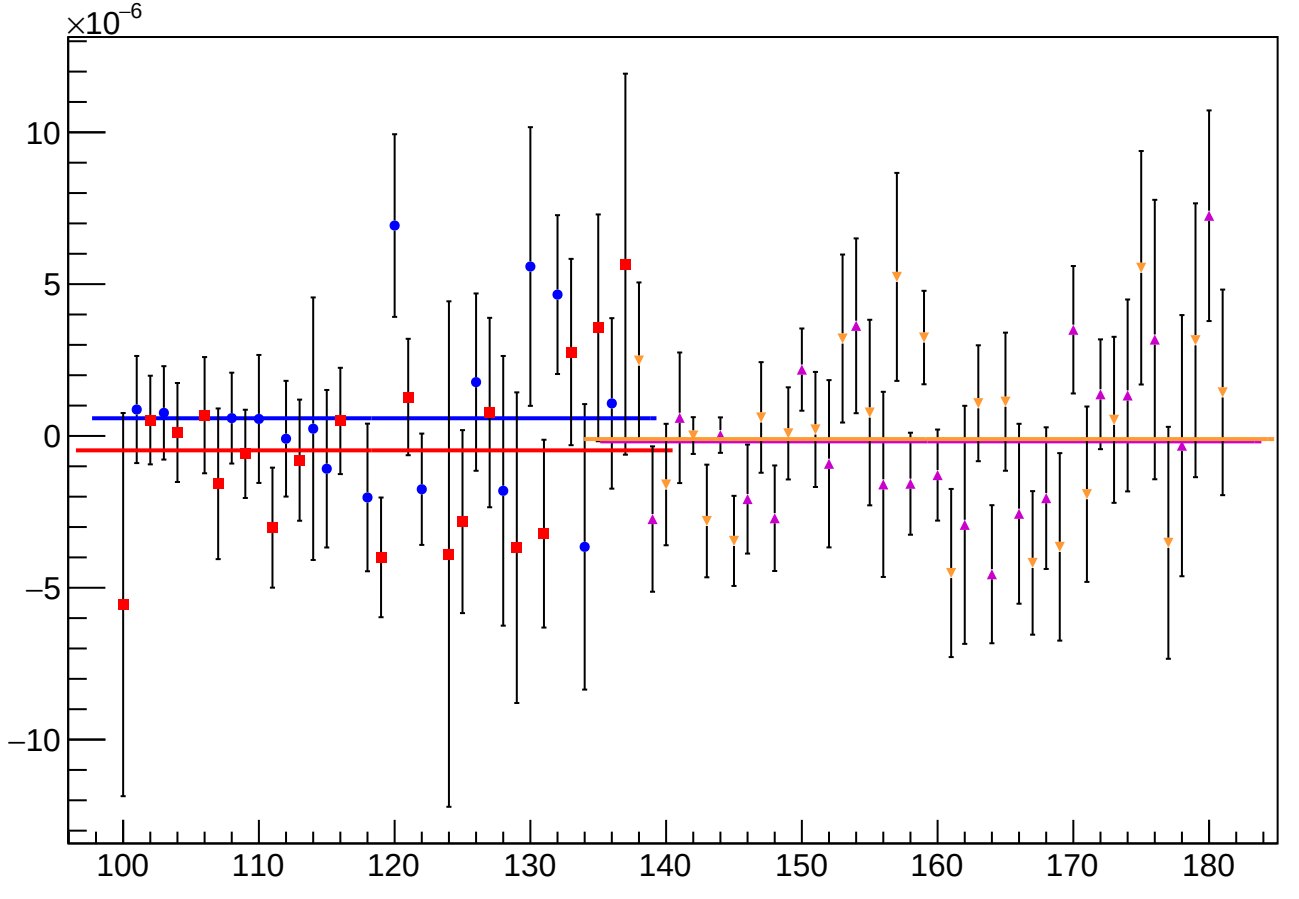
Left: 32.724+/-0.004 $\chi^2$/NDF: 2341640.6/43

Right: 27.342+/-0.005 $\chi^2$/NDF: 1891228.7/34

In: 30.697+/-0.005 $\chi^2$/NDF:2720379.3/36

Out: 30.838+/-0.004 $\chi^2$/NDF:2177811.5/41

All: 30.769+/-0.003 $\chi^2$/NDF: 4898686.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:29.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.6/20

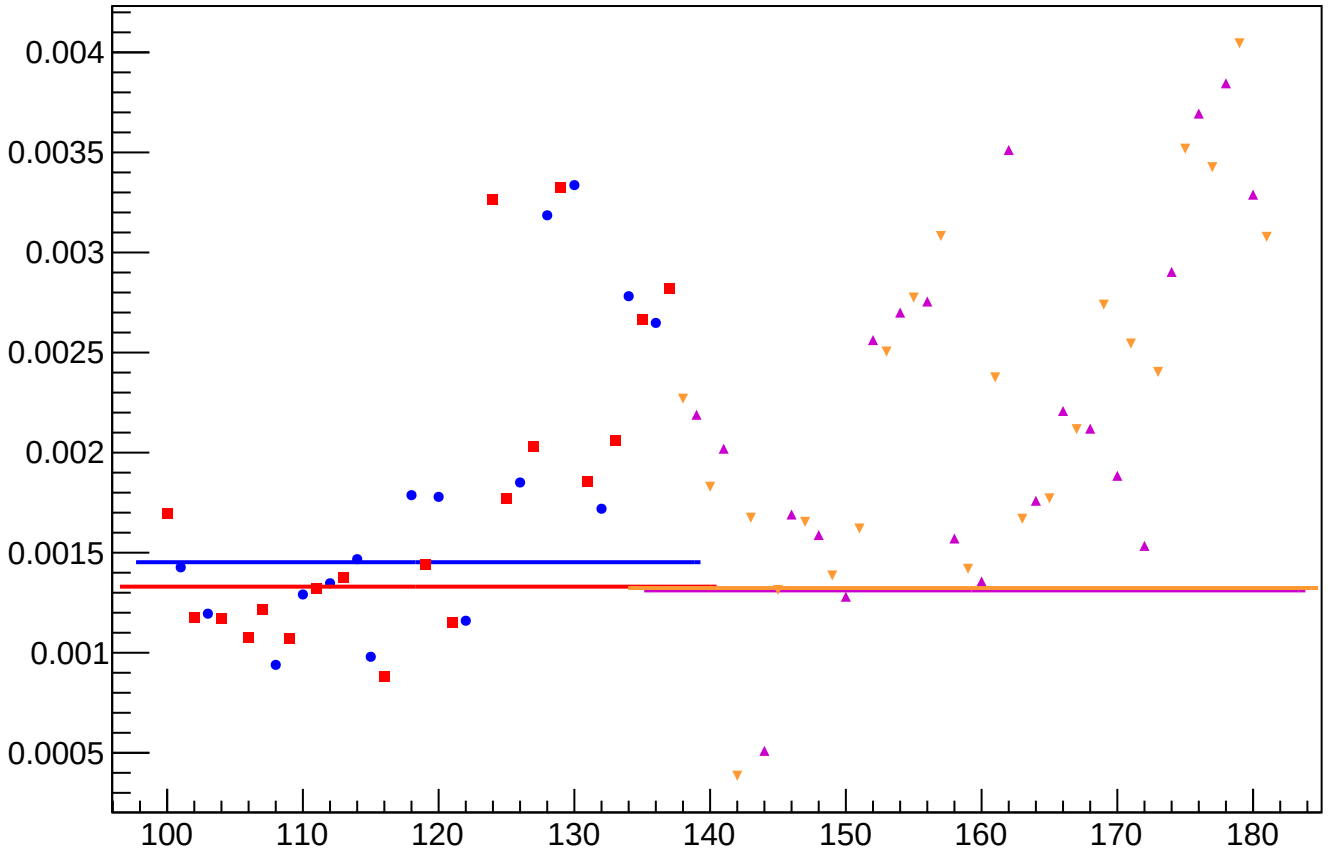
Left: -0.000+/-0.000 $\chi^2$/NDF: 54.9/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:39.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:42.9/41

All: -0.000+/-0.000 $\chi^2$/NDF: 82.8/78




Right In: 0.001+/-0.000 $\chi^2$/NDF: 1710487.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:11006809.0/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 1402821.5/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:9467077.1/20

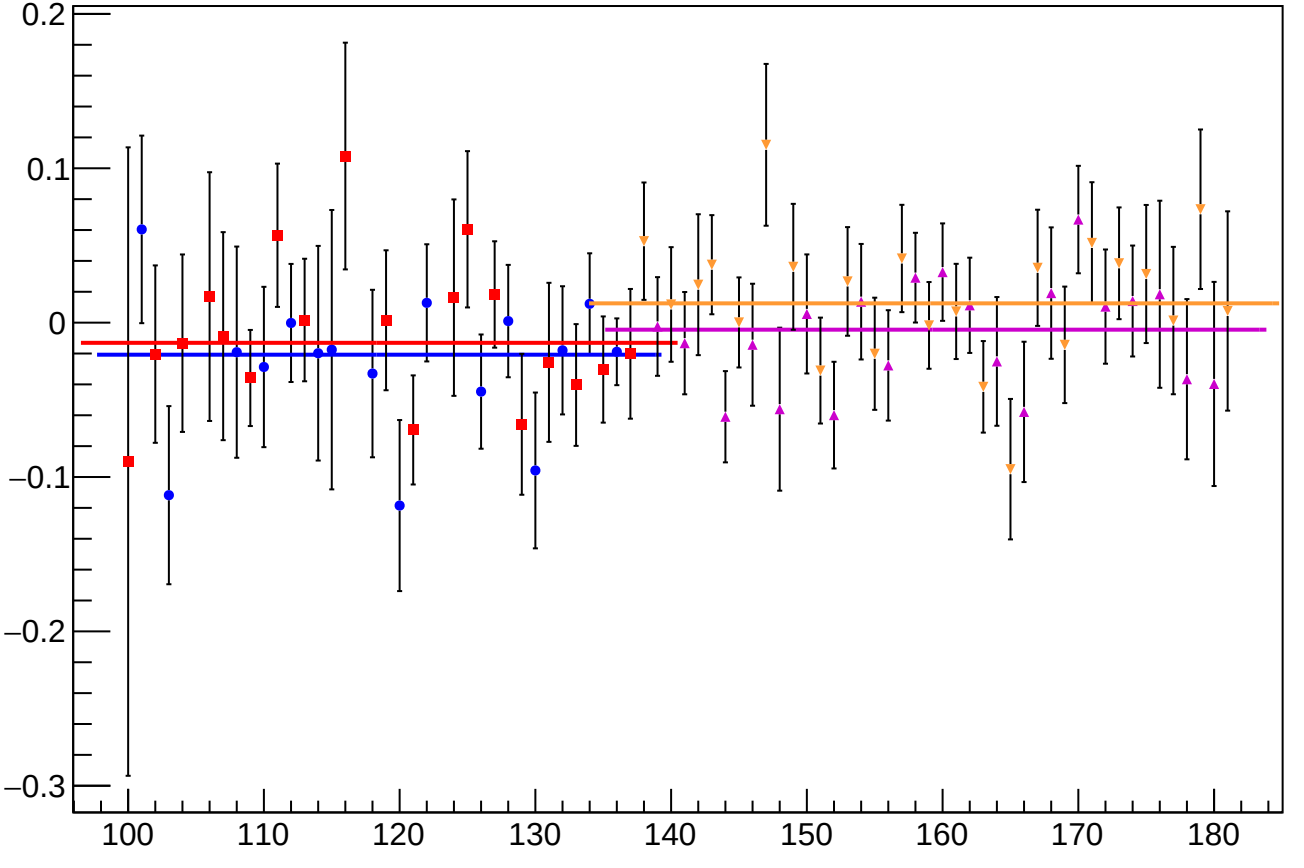
Left: 0.001+/-0.000 $\chi^2$/NDF: 20474874.2/43

Right: 0.001+/-0.000 $\chi^2$/NDF: 3162860.5/34

In: 0.001+/-0.000 $\chi^2$/NDF:11261109.4/36

Out: 0.001+/-0.000 $\chi^2$/NDF:12409860.5/41

All: 0.001+/-0.000 $\chi^2$/NDF: 23679057.3/78




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.013+/-0.008 $\chi^2$/NDF:22.6/22

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.005+/-0.008 $\chi^2$/NDF:18.4/20

Left: 0.004+/-0.006 $\chi^2$/NDF: 43.3/43

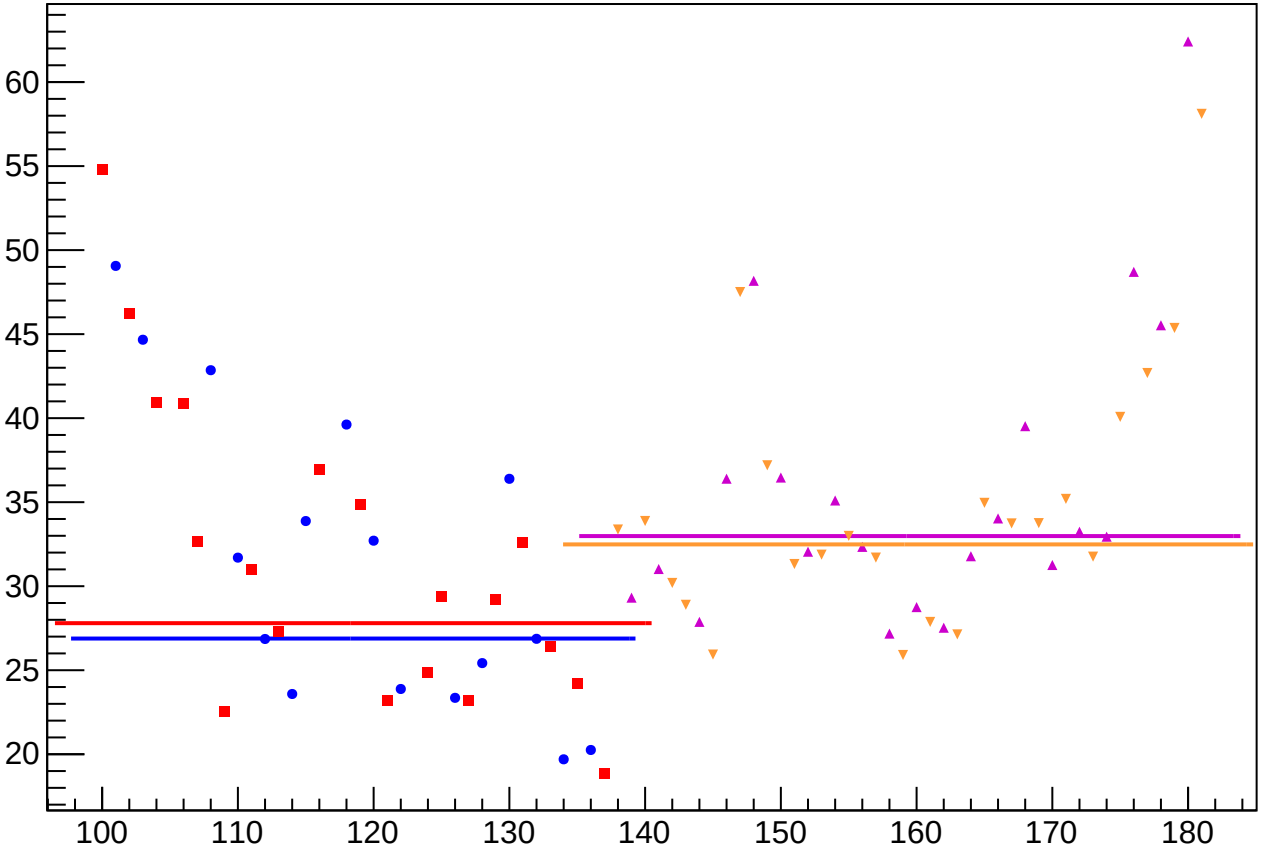
Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.011+/-0.006 $\chi^2$/NDF:32.4/36

Out: 0.003+/-0.006 $\chi^2$/NDF:40.4/41

All: -0.003+/-0.004 $\chi^2$/NDF: 75.3/78

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 26.885+/-0.007 $\chi^2$/NDF: 1120567.7/15

Left Out: 32.487+/-0.005 $\chi^2$/NDF:1158761.7/22

Right Out: 27.800+/-0.007 $\chi^2$/NDF: 763213.5/18

Left In: 32.983+/-0.006 $\chi^2$/NDF:1179136.6/20

Left: 32.724+/-0.004 $\chi^2$/NDF: 2341778.4/43

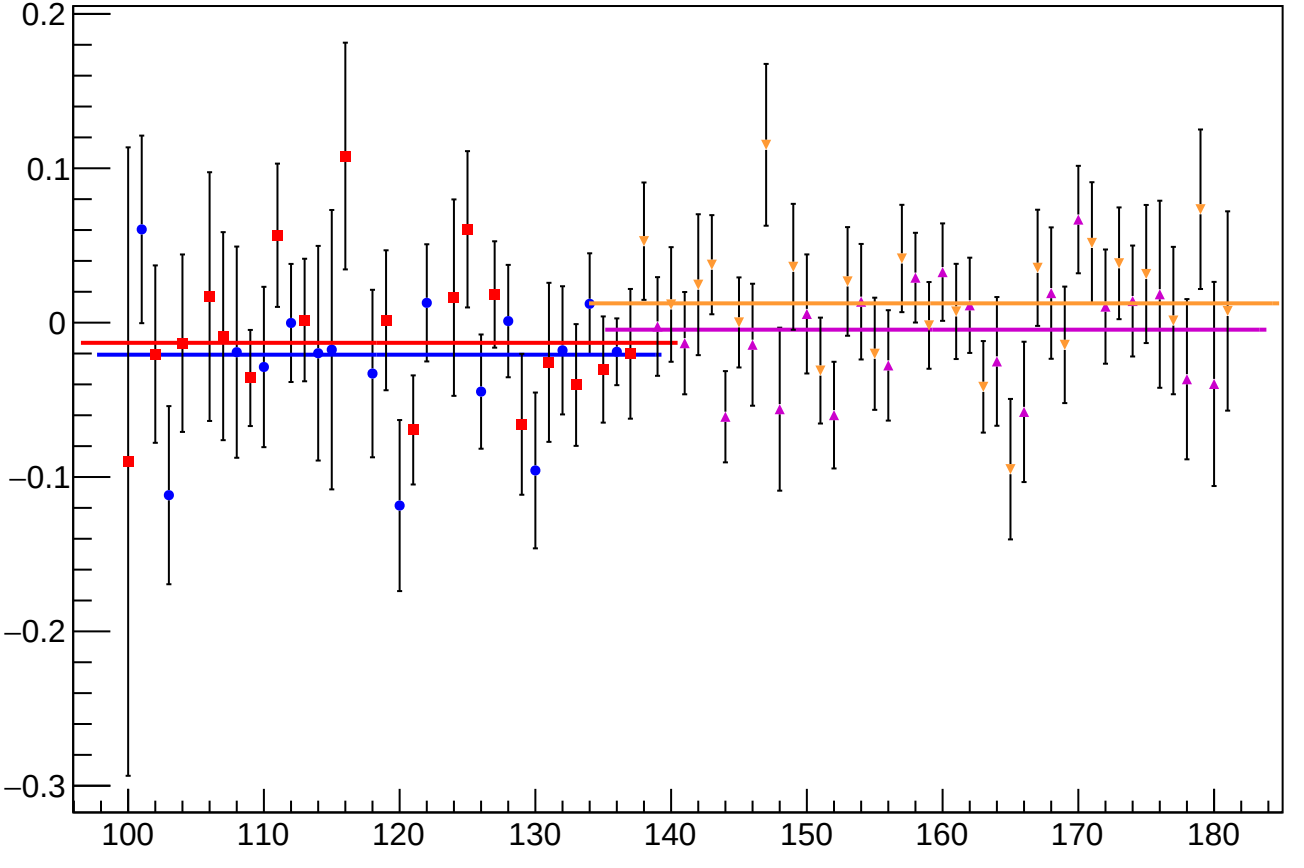
Right: 27.341+/-0.005 $\chi^2$/NDF: 1891338.8/34

In: 30.696+/-0.005 $\chi^2$/NDF:2720597.9/36

Out: 30.837+/-0.004 $\chi^2$/NDF:2178140.5/41

All: 30.769+/-0.003 $\chi^2$/NDF: 4899232.5/78

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.013+/-0.008 $\chi^2$/NDF:22.6/22

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.005+/-0.008 $\chi^2$/NDF:18.4/20

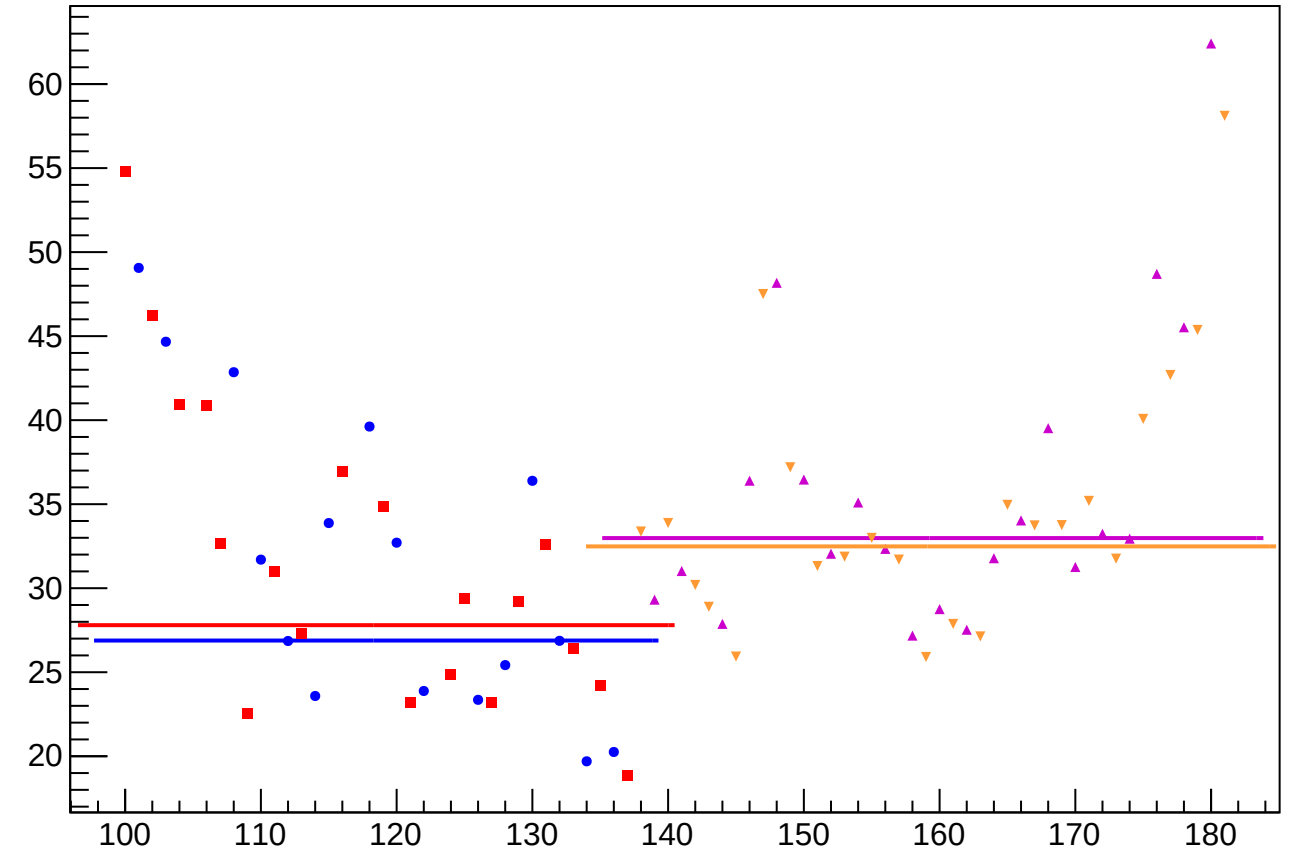
Left: 0.004+/-0.006 $\chi^2$/NDF: 43.3/43

Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.011+/-0.006 $\chi^2$/NDF:32.4/36

Out: 0.003+/-0.006 $\chi^2$/NDF:40.4/41

All: -0.003+/-0.004 $\chi^2$/NDF: 75.3/78




Right In: 26.885+/-0.007 $\chi^2$/NDF: 1120567.7/15

Left Out: 32.487+/-0.005 $\chi^2$/NDF:1158761.7/22

Right Out: 27.800+/-0.007 $\chi^2$/NDF: 763213.5/18

Left In: 32.983+/-0.006 $\chi^2$/NDF:1179136.6/20

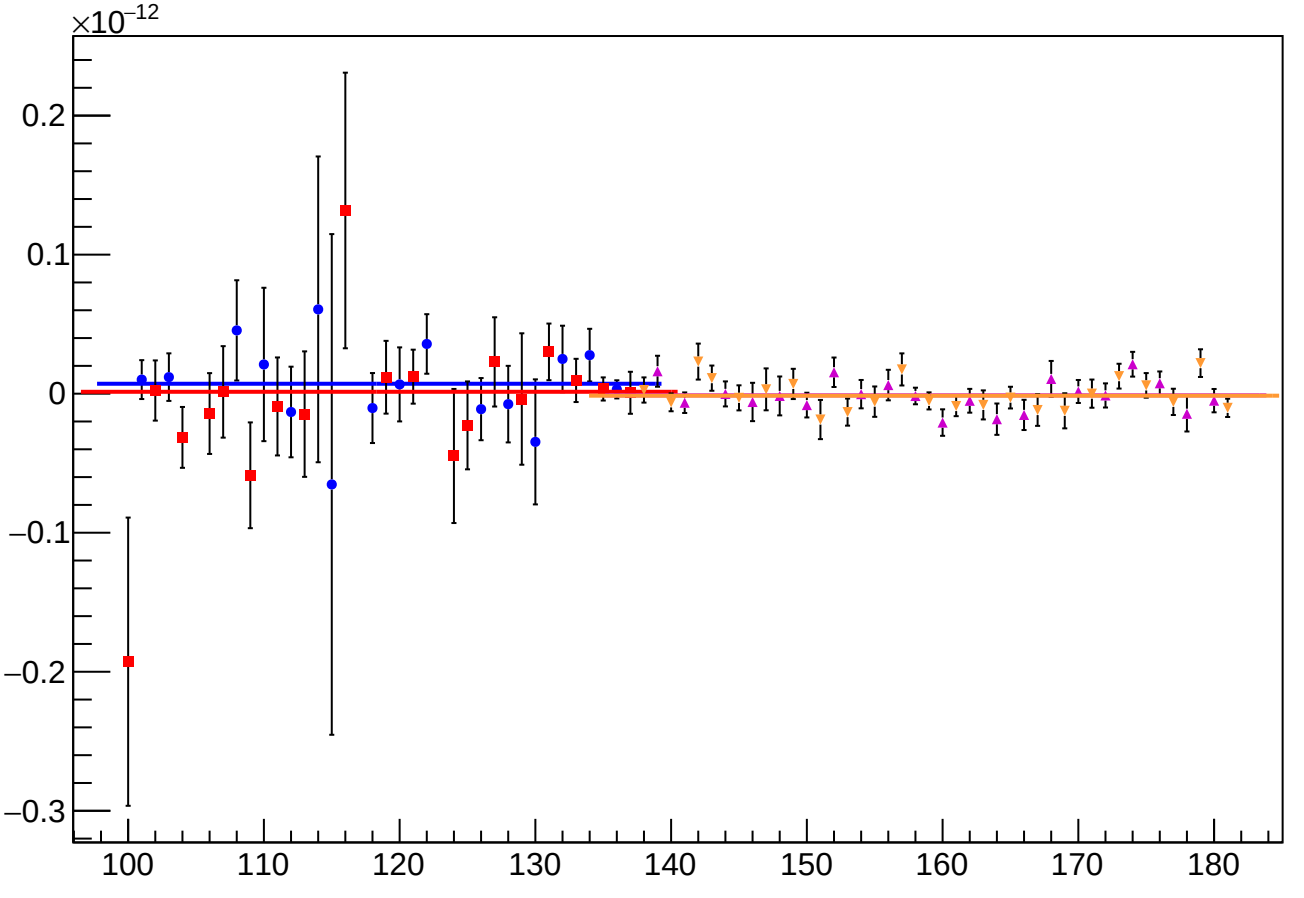
Left: 32.724+/-0.004 $\chi^2$/NDF: 2341778.4/43

Right: 27.341+/-0.005 $\chi^2$/NDF: 1891338.8/34

In: 30.696+/-0.005 $\chi^2$/NDF:2720597.9/36

Out: 30.837+/-0.004 $\chi^2$/NDF:2178140.5/41

All: 30.769+/-0.003 $\chi^2$/NDF: 4899232.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:24.6/20

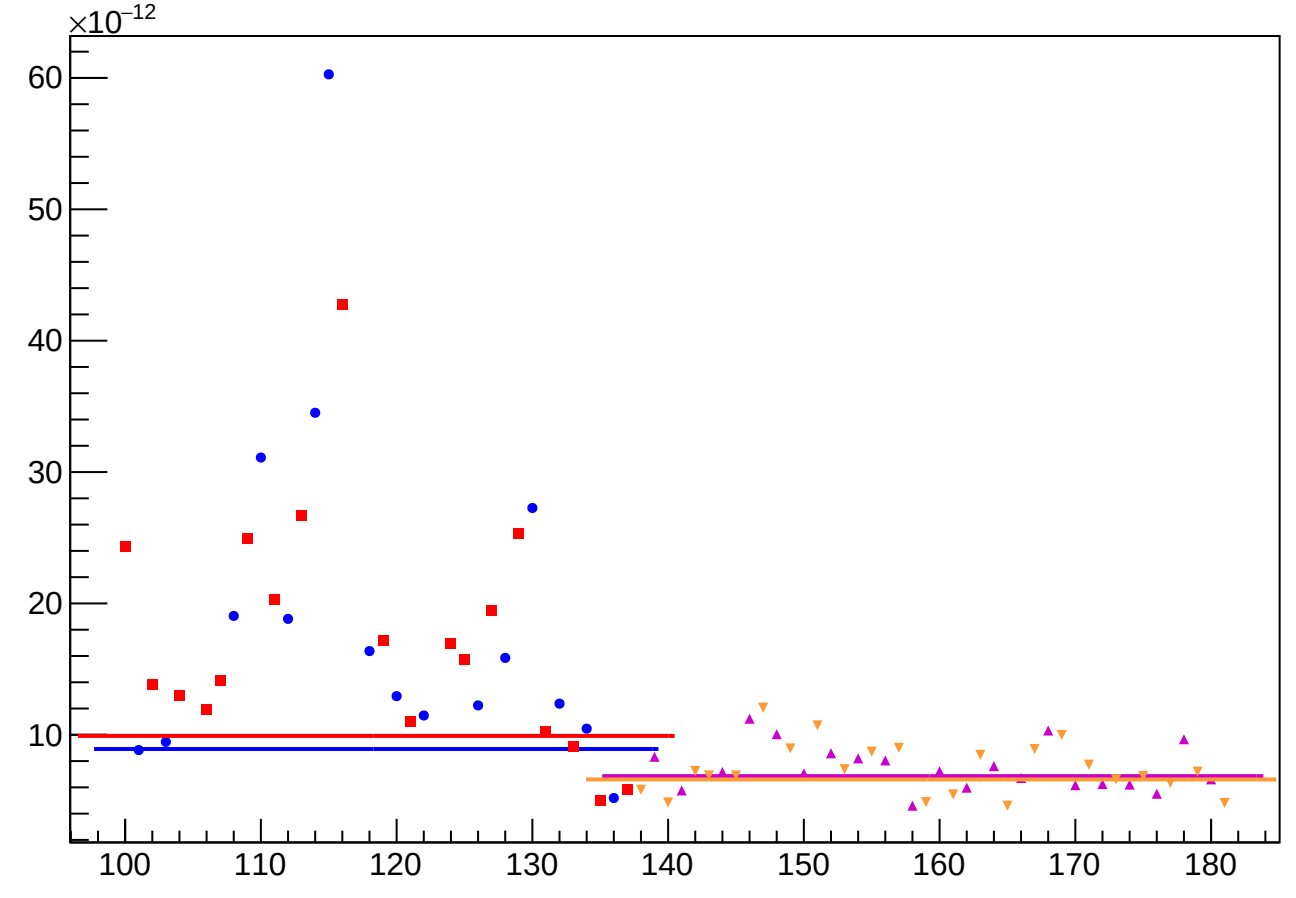
Left: -0.000+/-0.000 $\chi^2$/NDF: 51.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 24.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:35.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:42.4/41

All: -0.000+/-0.000 $\chi^2$/NDF: 78.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2402804.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1686522.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2669812.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1143865.6/20

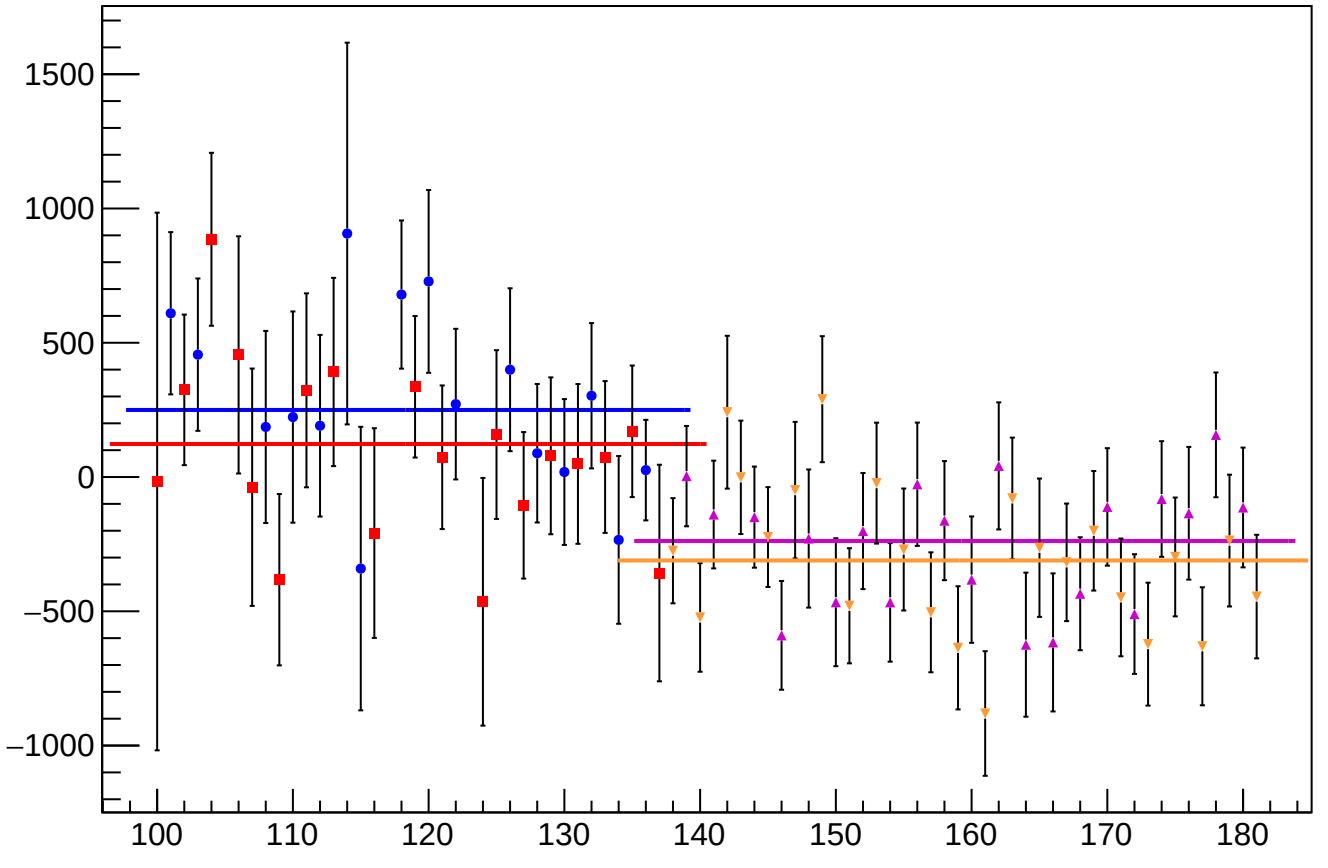
Left: 0.000+/-0.000 $\chi^2$/NDF: 2846445.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5116378.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:3886145.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5137474.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9032073.2/78




Right In: 249.761+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -310.710+/-46.697 $\chi^2$/NDF:32.1/22

Right Out: 122.993+/-74.370 $\chi^2$/NDF: 15.6/18

Left In: -238.115+/-48.497 $\chi^2$/NDF:20.7/20

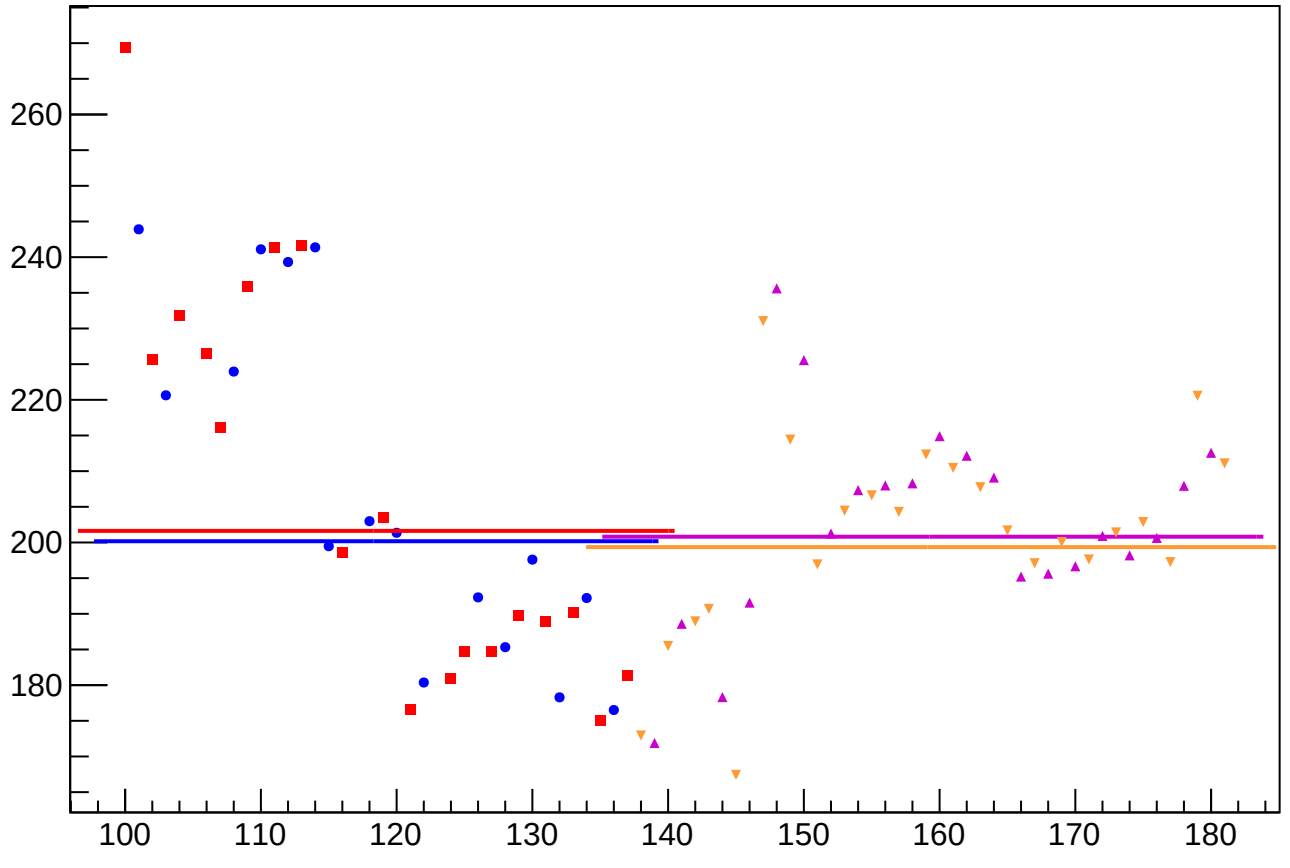
Left: -275.785+/-33.638 $\chi^2$/NDF: 54.0/43

Right: 185.946+/-52.766 $\chi^2$/NDF: 30.8/34

In: -93.934+/-40.705 $\chi^2$/NDF:64.4/36

Out: -188.068+/-39.548 $\chi^2$/NDF:72.0/41

All: -142.358+/-28.365 $\chi^2$/NDF: 139.2/78




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.3/15

Left Out: 199.353+/-0.033 $\chi^2$/NDF:189683.0/22

Right Out: 201.627+/-0.053 $\chi^2$/NDF: 197245.7/18

Left In: 200.811+/-0.034 $\chi^2$/NDF:176508.3/20

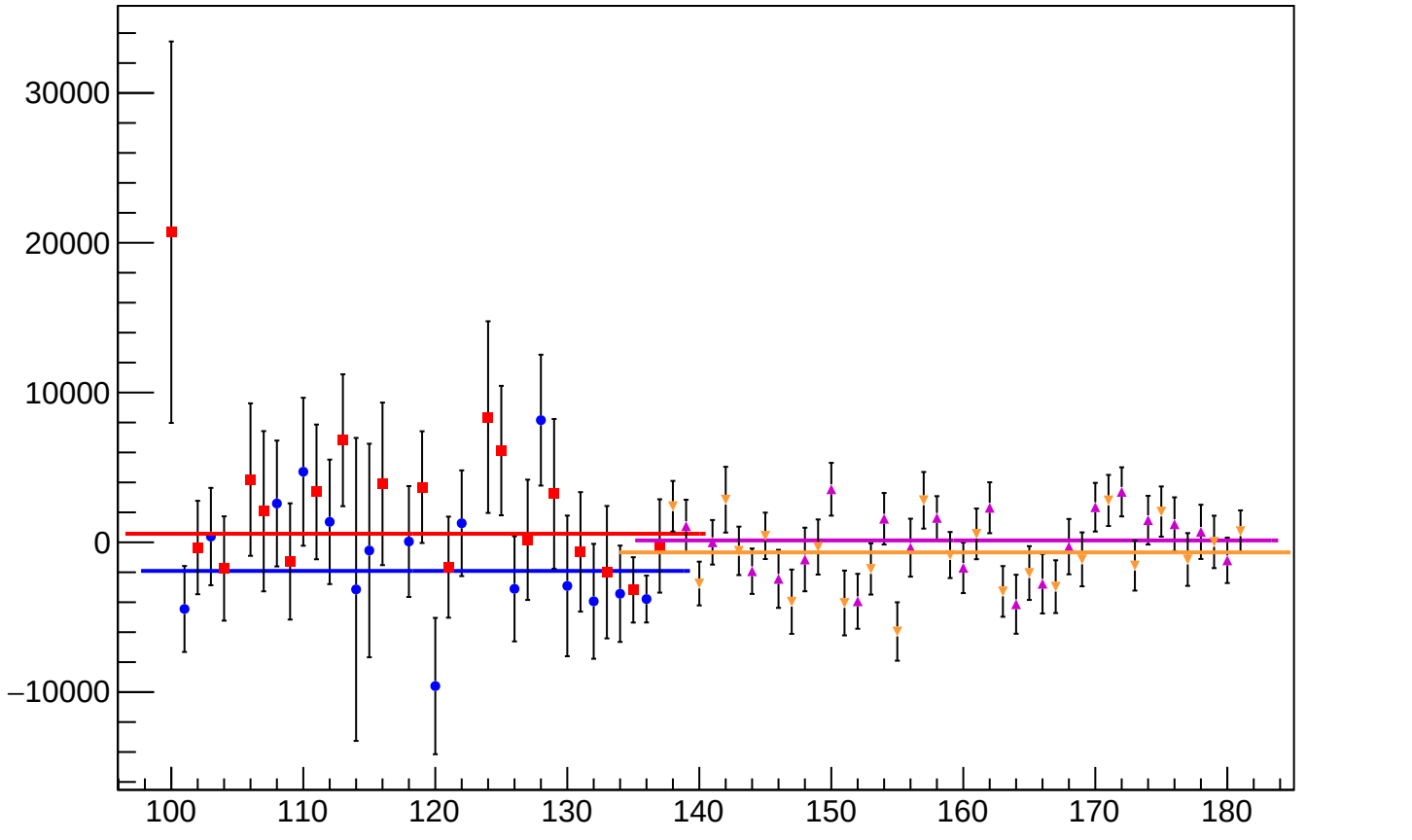
Left: 200.054+/-0.024 $\chi^2$/NDF: 367129.5/43

Right: 200.907+/-0.037 $\chi^2$/NDF: 378624.7/34

In: 200.623+/-0.029 $\chi^2$/NDF:357610.7/36

Out: 199.996+/-0.028 $\chi^2$/NDF:388270.4/41

All: 200.301+/-0.020 $\chi^2$/NDF: 746125.6/78




Right In: -1910.348+/-859.088 $\chi^2$/NDF: 16.3/15

Left Out: -671.850+/-359.880 $\chi^2$/NDF:38.0/22

Right Out: 570.946+/-900.451 $\chi^2$/NDF: 14.6/18

Left In: 125.995+/-376.017 $\chi^2$/NDF:32.1/20

Left: -290.415+/-259.991 $\chi^2$/NDF: 72.5/43

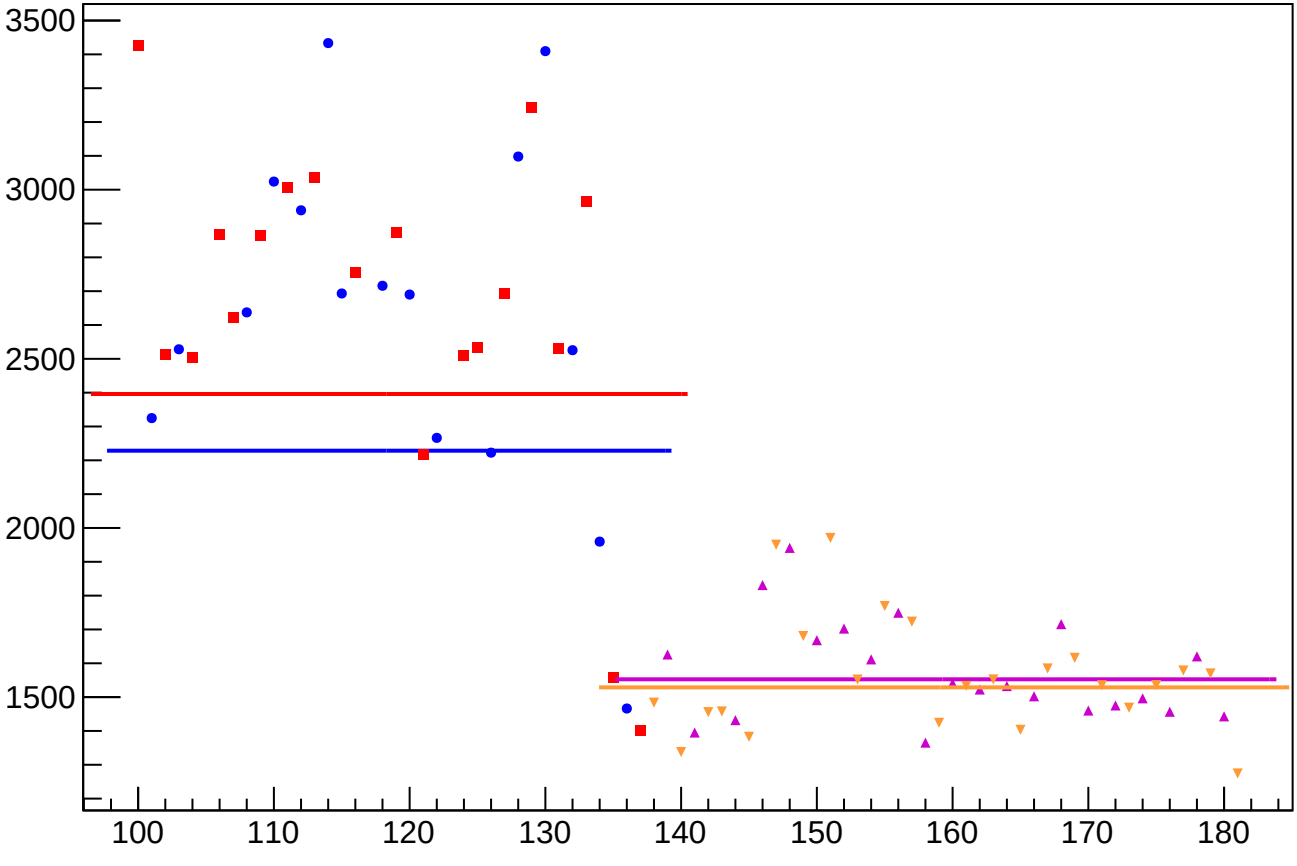
Right: -728.000+/-621.575 $\chi^2$/NDF: 34.9/34

In: -201.398+/-344.466 $\chi^2$/NDF:53.1/36

Out: -500.677+/-334.179 $\chi^2$/NDF:54.2/41

All: -355.573+/-239.855 $\chi^2$/NDF: 107.7/78

asym_sam_26_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 2228.431+/-0.607 $\chi^2$/NDF: 947654.8/15

Left Out: 1528.788+/-0.254 $\chi^2$/NDF:384281.2/22

Right Out: 2396.080+/-0.637 $\chi^2$/NDF: 799442.5/18

Left In: 1552.633+/-0.266 $\chi^2$/NDF:275025.1/20

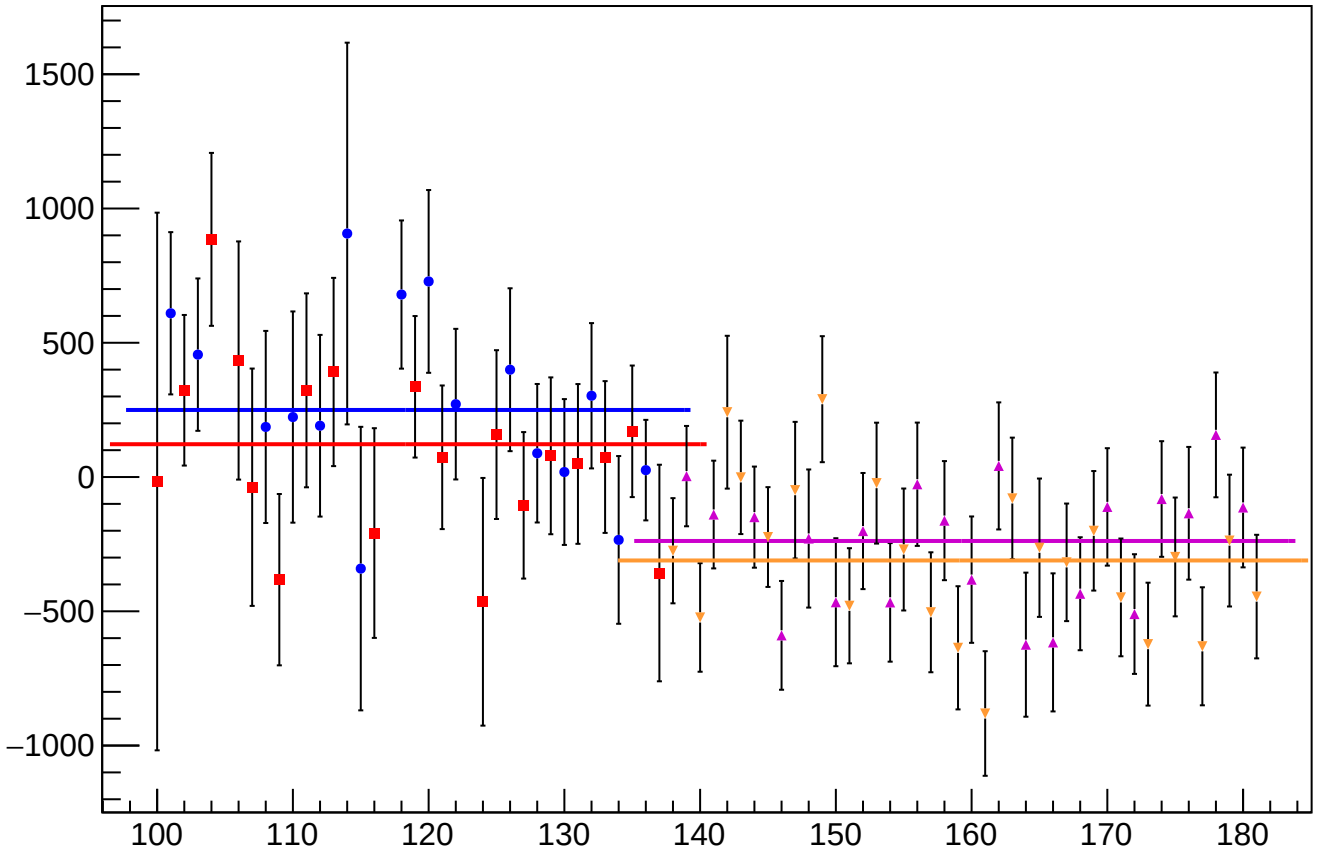
Left: 1540.188+/-0.184 $\chi^2$/NDF: 663503.9/43

Right: 2308.317+/-0.440 $\chi^2$/NDF: 1783390.1/34

In: 1661.285+/-0.244 $\chi^2$/NDF:2261325.6/36

Out: 1648.243+/-0.236 $\chi^2$/NDF:2783581.8/41

All: 1654.566+/-0.170 $\chi^2$/NDF: 5046384.4/78




Right In: 249.764+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -310.711+/-46.697 $\chi^2$/NDF:32.1/22

Right Out: 122.210+/-74.380 $\chi^2$/NDF: 15.5/18

Left In: -238.121+/-48.497 $\chi^2$/NDF:20.7/20

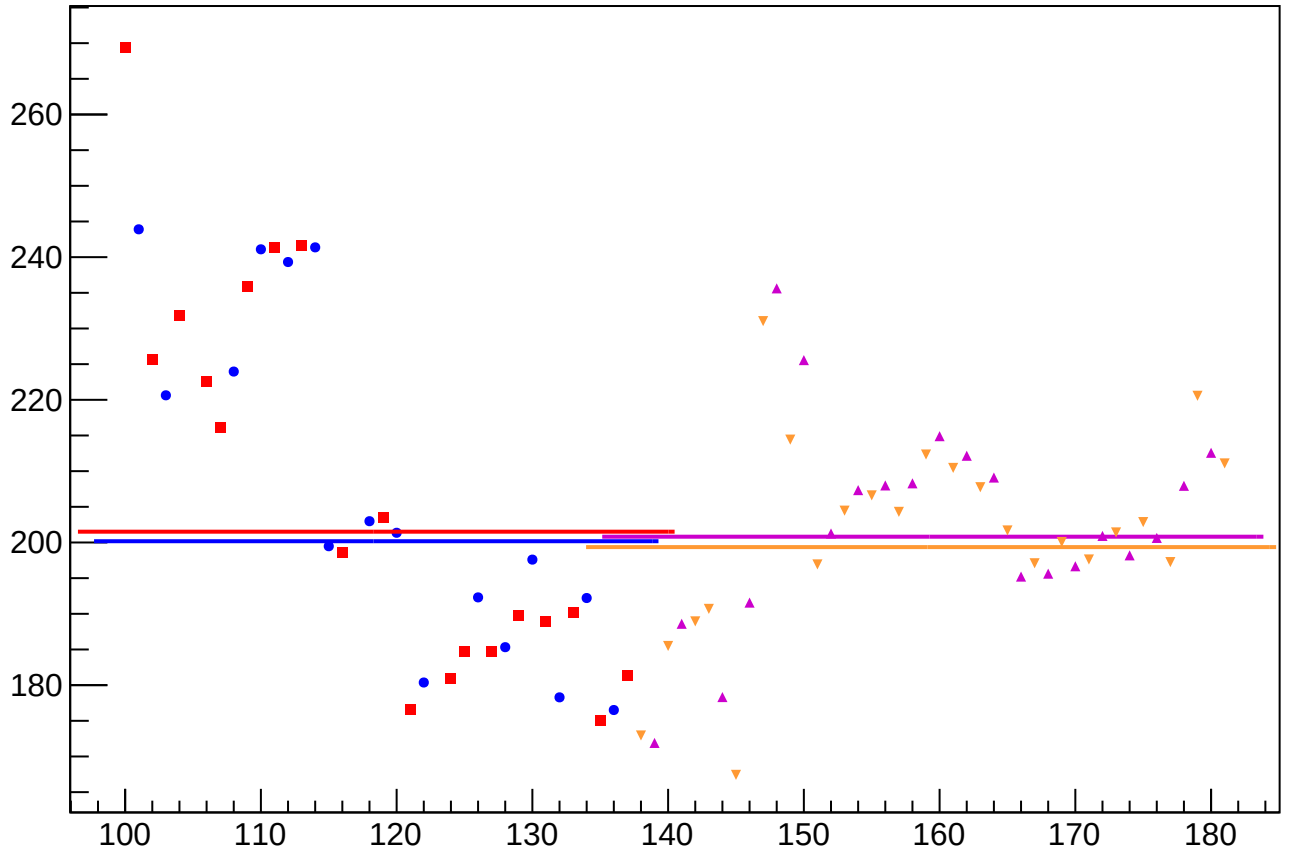
Left: -275.788+/-33.638 $\chi^2$/NDF: 54.0/43

Right: 185.562+/-52.770 $\chi^2$/NDF: 30.7/34

In: -93.937+/-40.705 $\chi^2$/NDF:64.4/36

Out: -188.314+/-39.549 $\chi^2$/NDF:71.9/41

All: -142.485+/-28.365 $\chi^2$/NDF: 139.0/78




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.6/15

Left Out: 199.353+/-0.033 $\chi^2$/NDF:189683.1/22

Right Out: 201.514+/-0.053 $\chi^2$/NDF: 195431.2/18

Left In: 200.811+/-0.034 $\chi^2$/NDF:176508.3/20

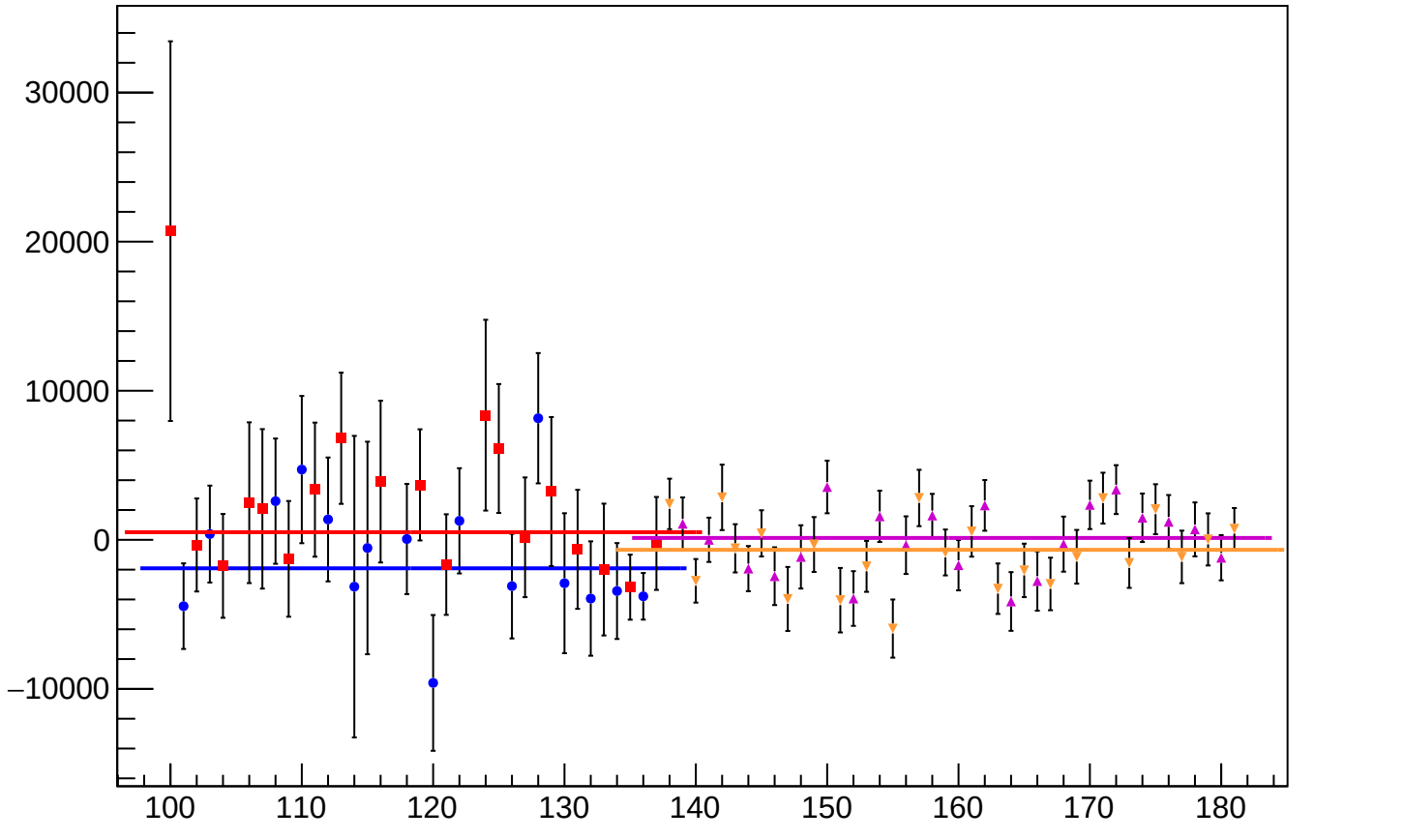
Left: 200.054+/-0.024 $\chi^2$/NDF: 367129.6/43

Right: 200.850+/-0.037 $\chi^2$/NDF: 376754.0/34

In: 200.623+/-0.029 $\chi^2$/NDF:357611.0/36

Out: 199.964+/-0.028 $\chi^2$/NDF:386325.9/41

All: 200.284+/-0.020 $\chi^2$/NDF: 744207.0/78




Right In: -1910.310+/-859.089 $\chi^2$/NDF: 16.3/15

Left Out: -671.851+/-359.880 $\chi^2$/NDF:38.0/22

Right Out: 511.276+/-902.014 $\chi^2$/NDF: 14.2/18

Left In: 125.996+/-376.017 $\chi^2$/NDF:32.1/20

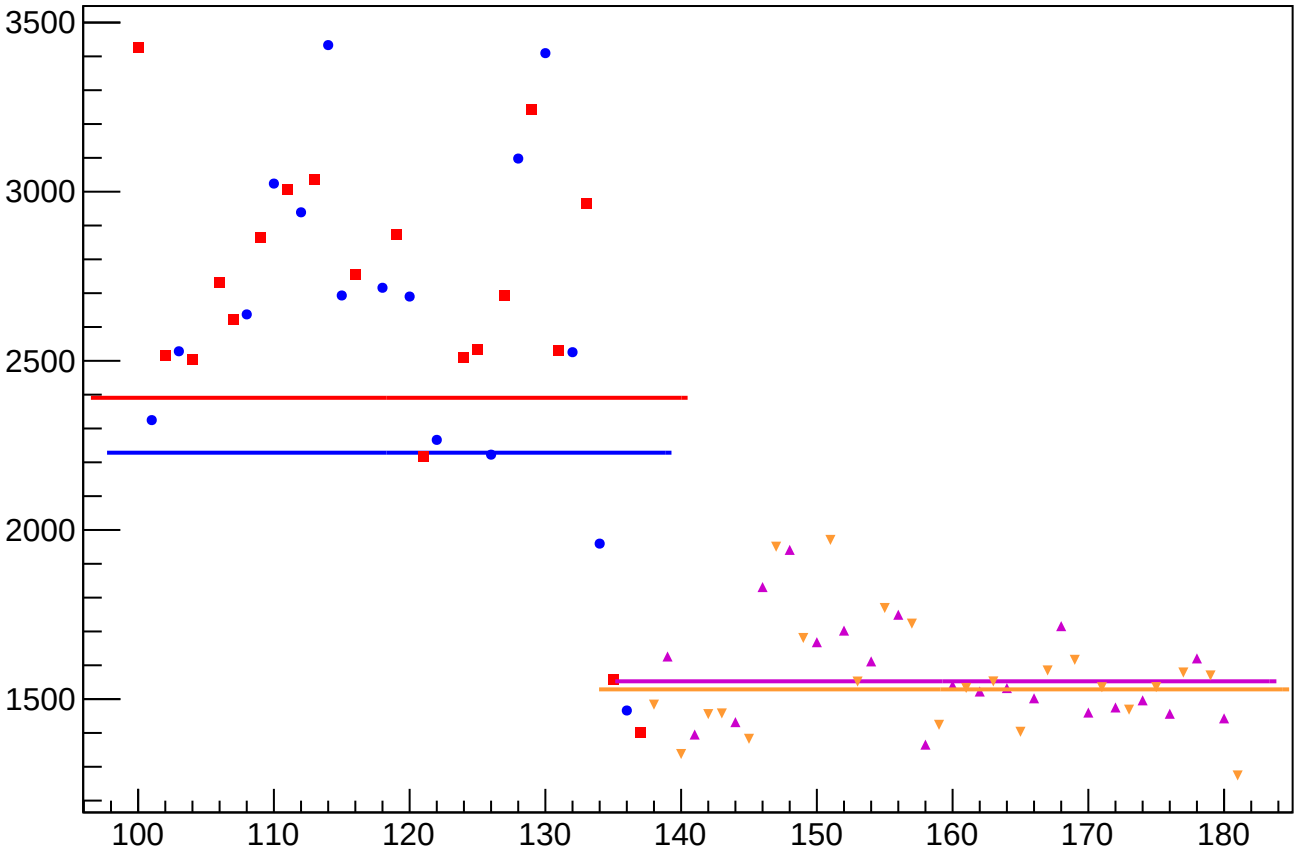
Left: -290.415+/-259.991 $\chi^2$/NDF: 72.4/43

Right: -758.506+/-622.089 $\chi^2$/NDF: 34.3/34

In: -201.390+/-344.467 $\chi^2$/NDF:53.1/36

Out: -509.382+/-334.258 $\chi^2$/NDF:53.7/41

All: -360.018+/-239.884 $\chi^2$/NDF: 107.2/78




Right In: 2228.435+/-0.607 $\chi^2$/NDF: 947659.2/15

Left Out: 1528.788+/-0.254 $\chi^2$/NDF:384282.4/22

Right Out: 2390.731+/-0.638 $\chi^2$/NDF: 790004.4/18

Left In: 1552.633+/-0.266 $\chi^2$/NDF:275027.2/20

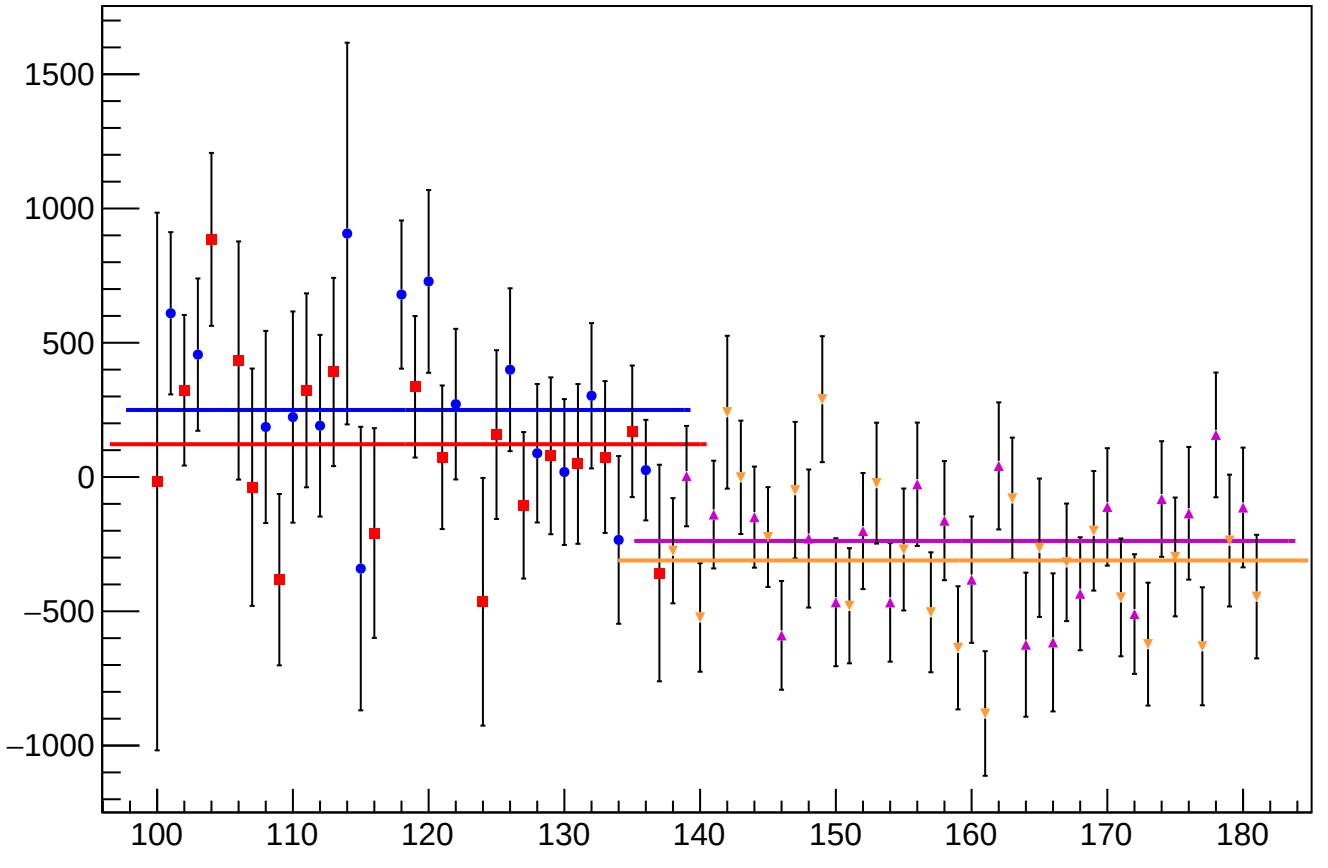
Left: 1540.188+/-0.184 $\chi^2$/NDF: 663507.1/43

Right: 2305.630+/-0.440 $\chi^2$/NDF: 1771614.3/34

In: 1661.285+/-0.244 $\chi^2$/NDF:2261340.0/36

Out: 1647.151+/-0.236 $\chi^2$/NDF:2749752.3/41

All: 1654.006+/-0.170 $\chi^2$/NDF: 5012826.5/78




Right In: 249.764+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -310.711+/-46.697 $\chi^2$/NDF:32.1/22

Right Out: 122.210+/-74.380 $\chi^2$/NDF: 15.5/18

Left In: -238.121+/-48.497 $\chi^2$/NDF:20.7/20

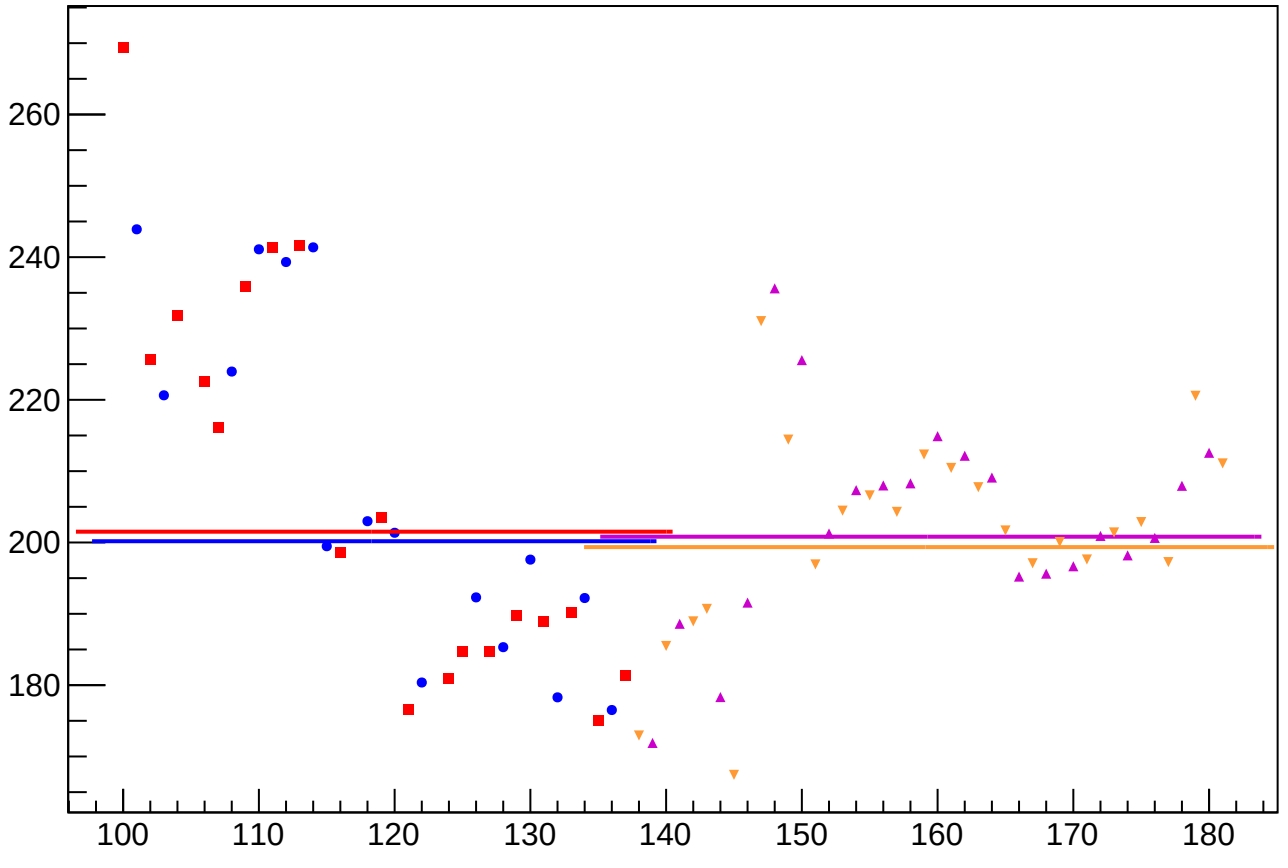
Left: -275.788+/-33.638 $\chi^2$/NDF: 54.0/43

Right: 185.562+/-52.770 $\chi^2$/NDF: 30.7/34

In: -93.937+/-40.705 $\chi^2$/NDF:64.4/36

Out: -188.314+/-39.549 $\chi^2$/NDF:71.9/41

All: -142.485+/-28.365 $\chi^2$/NDF: 139.0/78




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.6/15

Left Out: 199.353+/-0.033 $\chi^2$/NDF:189683.1/22

Right Out: 201.514+/-0.053 $\chi^2$/NDF: 195431.2/18

Left In: 200.811+/-0.034 $\chi^2$/NDF:176508.3/20

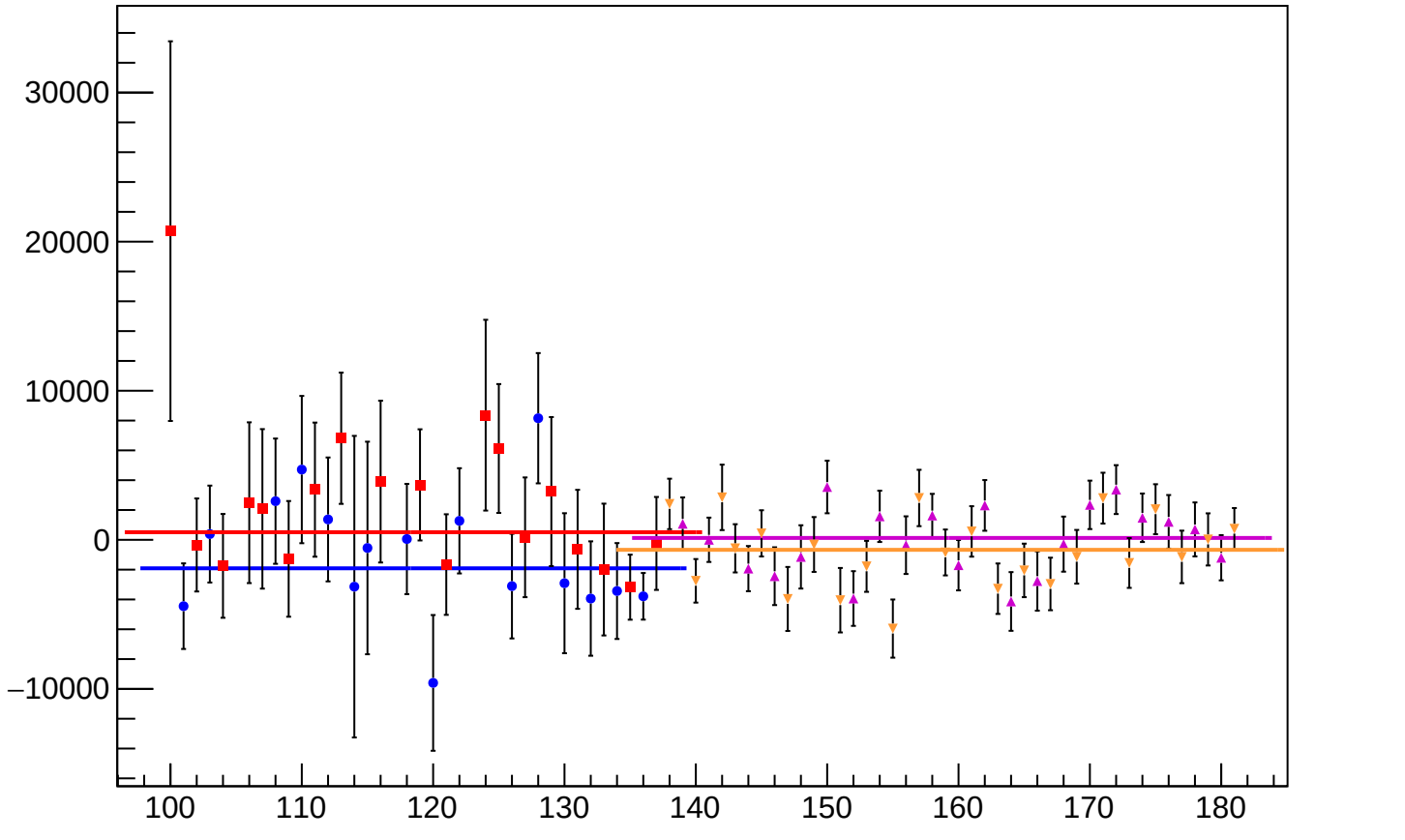
Left: 200.054+/-0.024 $\chi^2$/NDF: 367129.6/43

Right: 200.850+/-0.037 $\chi^2$/NDF: 376754.0/34

In: 200.623+/-0.029 $\chi^2$/NDF:357611.0/36

Out: 199.964+/-0.028 $\chi^2$/NDF:386325.9/41

All: 200.284+/-0.020 $\chi^2$/NDF: 744207.0/78




Right In: -1910.310+/-859.089 $\chi^2$/NDF: 16.3/15

Left Out: -671.851+/-359.880 $\chi^2$/NDF:38.0/22

Right Out: 511.276+/-902.014 $\chi^2$/NDF: 14.2/18

Left In: 125.996+/-376.017 $\chi^2$/NDF:32.1/20

Left: -290.415+/-259.991 $\chi^2$/NDF: 72.4/43

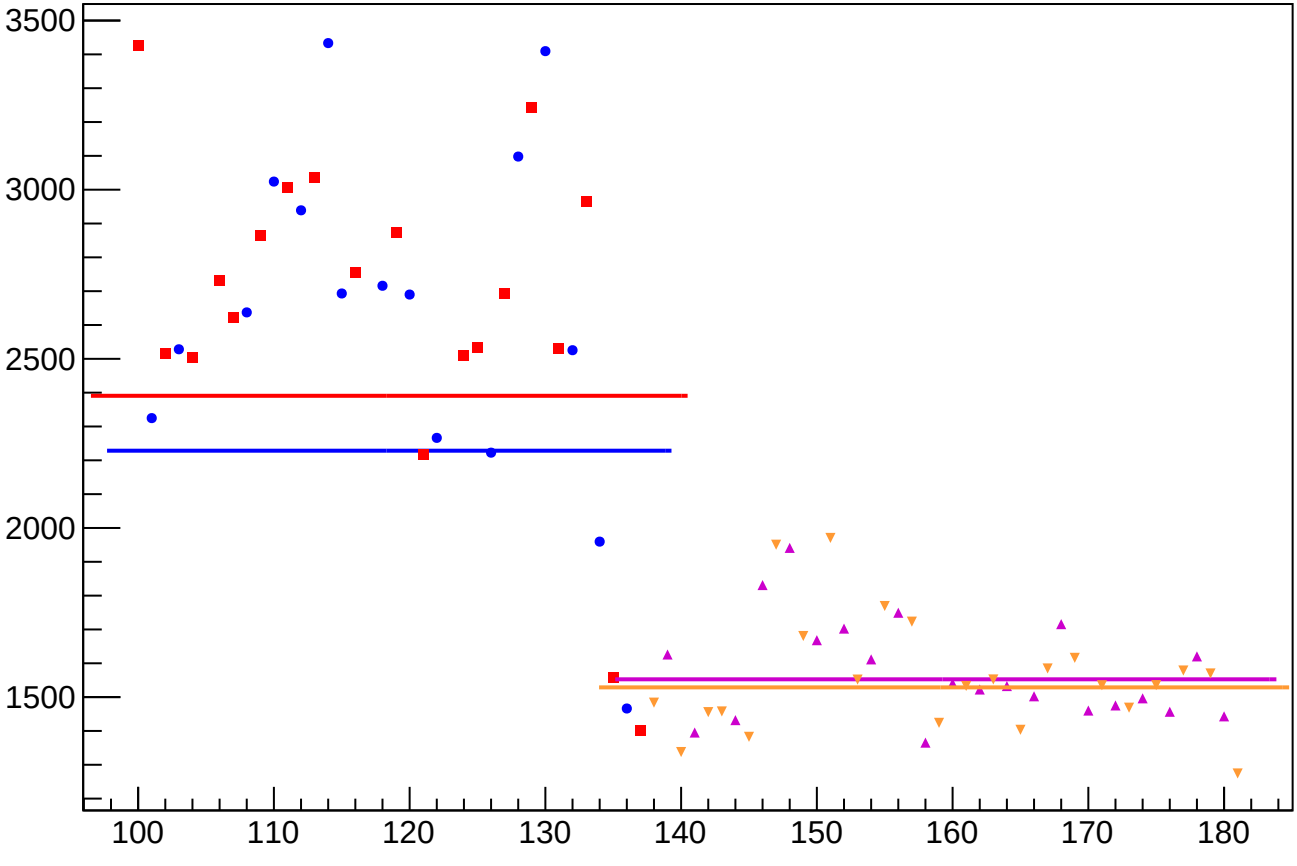
Right: -758.506+/-622.089 $\chi^2$/NDF: 34.3/34

In: -201.390+/-344.467 $\chi^2$/NDF:53.1/36

Out: -509.382+/-334.258 $\chi^2$/NDF:53.7/41

All: -360.018+/-239.884 $\chi^2$/NDF: 107.2/78

asym_sam_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 2228.435+/-0.607 $\chi^2$/NDF: 947659.2/15

Left Out: 1528.788+/-0.254 $\chi^2$/NDF:384282.4/22

Right Out: 2390.731+/-0.638 $\chi^2$/NDF: 790004.4/18

Left In: 1552.633+/-0.266 $\chi^2$/NDF:275027.2/20

Left: 1540.188+/-0.184 $\chi^2$/NDF: 663507.1/43

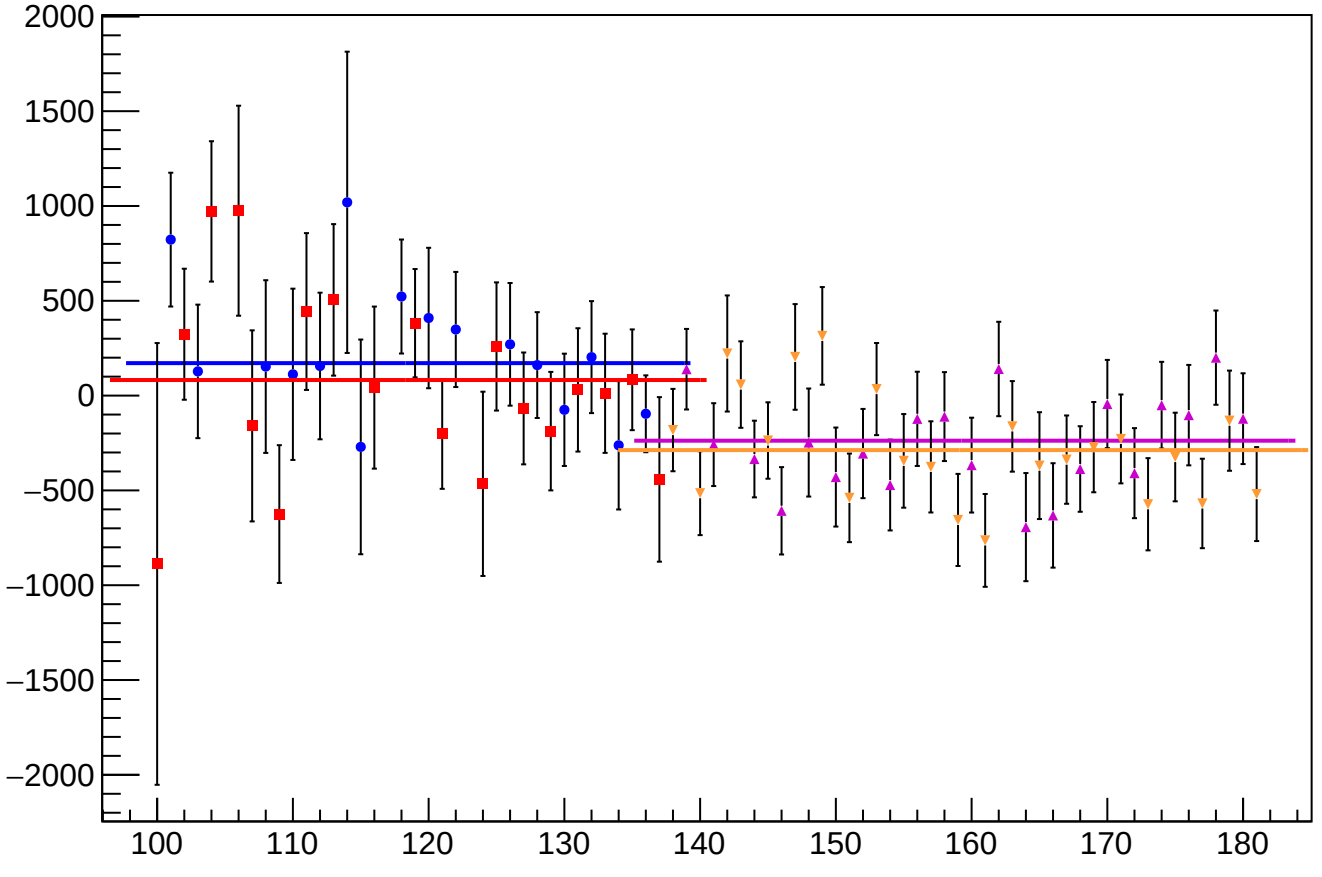
Right: 2305.630+/-0.440 $\chi^2$/NDF: 1771614.3/34

In: 1661.285+/-0.244 $\chi^2$/NDF:2261340.0/36

Out: 1647.151+/-0.236 $\chi^2$/NDF:2749752.3/41

All: 1654.006+/-0.170 $\chi^2$/NDF: 5012826.5/78

# dit_asym_sam_26_dd_mean vs Slug, Sign Corrected




Right In: 171.258+/-83.116 $\chi^2$/NDF: 11.5/15

Left Out: -287.452+/-50.315 $\chi^2$/NDF:28.7/22

Right Out: 82.152+/-82.545 $\chi^2$/NDF: 21.6/18

Left In: -237.813+/-52.429 $\chi^2$/NDF:21.1/20

Left: -263.653+/-36.302 $\chi^2$/NDF: 50.3/43

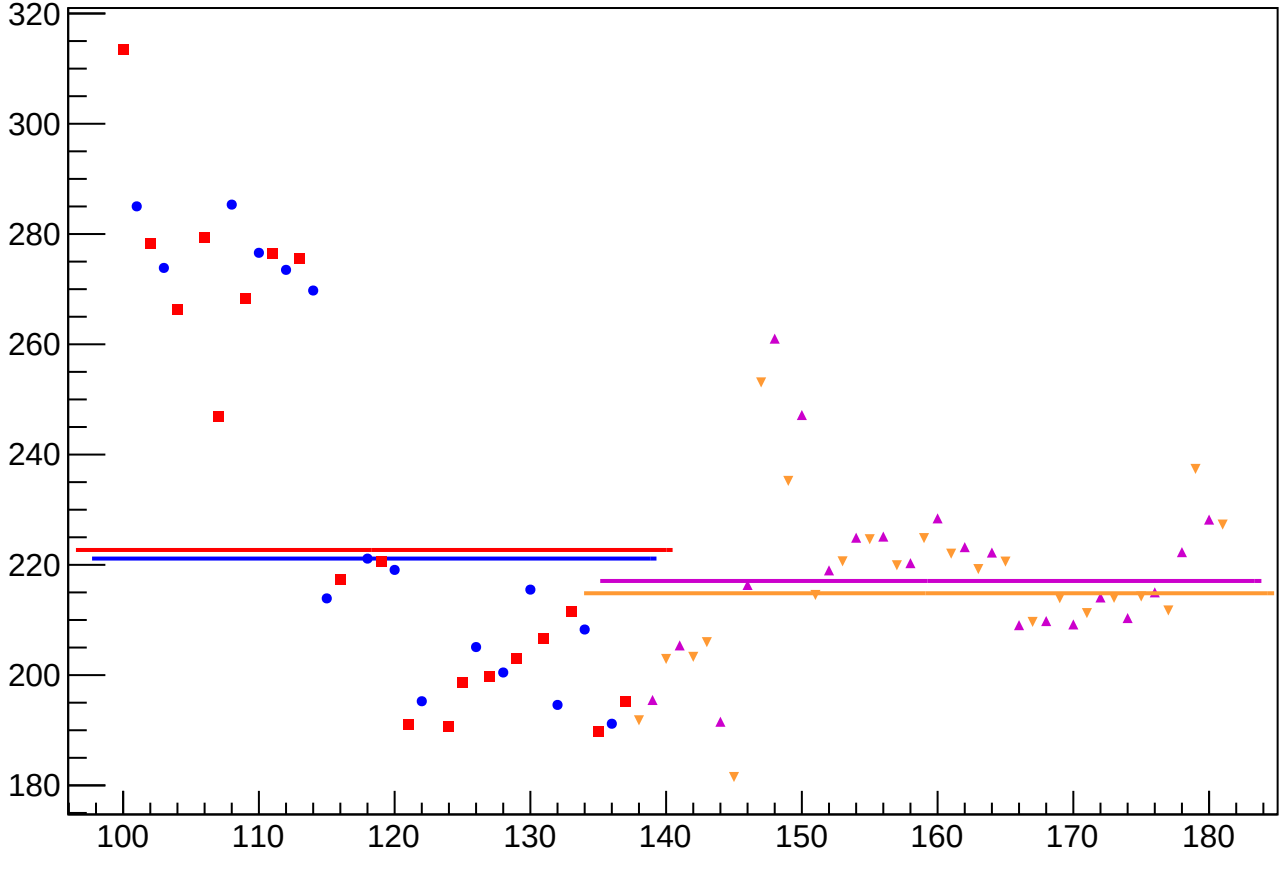
Right: 126.398+/-58.569 $\chi^2$/NDF: 33.7/34

In: -121.375+/-44.344 $\chi^2$/NDF:50.0/36

Out: -187.327+/-42.963 $\chi^2$/NDF:64.9/41

All: -155.394+/-30.856 $\chi^2$/NDF: 116.1/78

# dit_asym_sam_26_dd_rms vs Slug, Sign Corrected




Right In: 221.139+/-0.059 $\chi^2$/NDF: 318702.0/15

Left Out: 214.847+/-0.036 $\chi^2$/NDF:172406.2/22

Right Out: 222.697+/-0.058 $\chi^2$/NDF: 327032.3/18

Left In: 217.077+/-0.037 $\chi^2$/NDF:156651.2/20

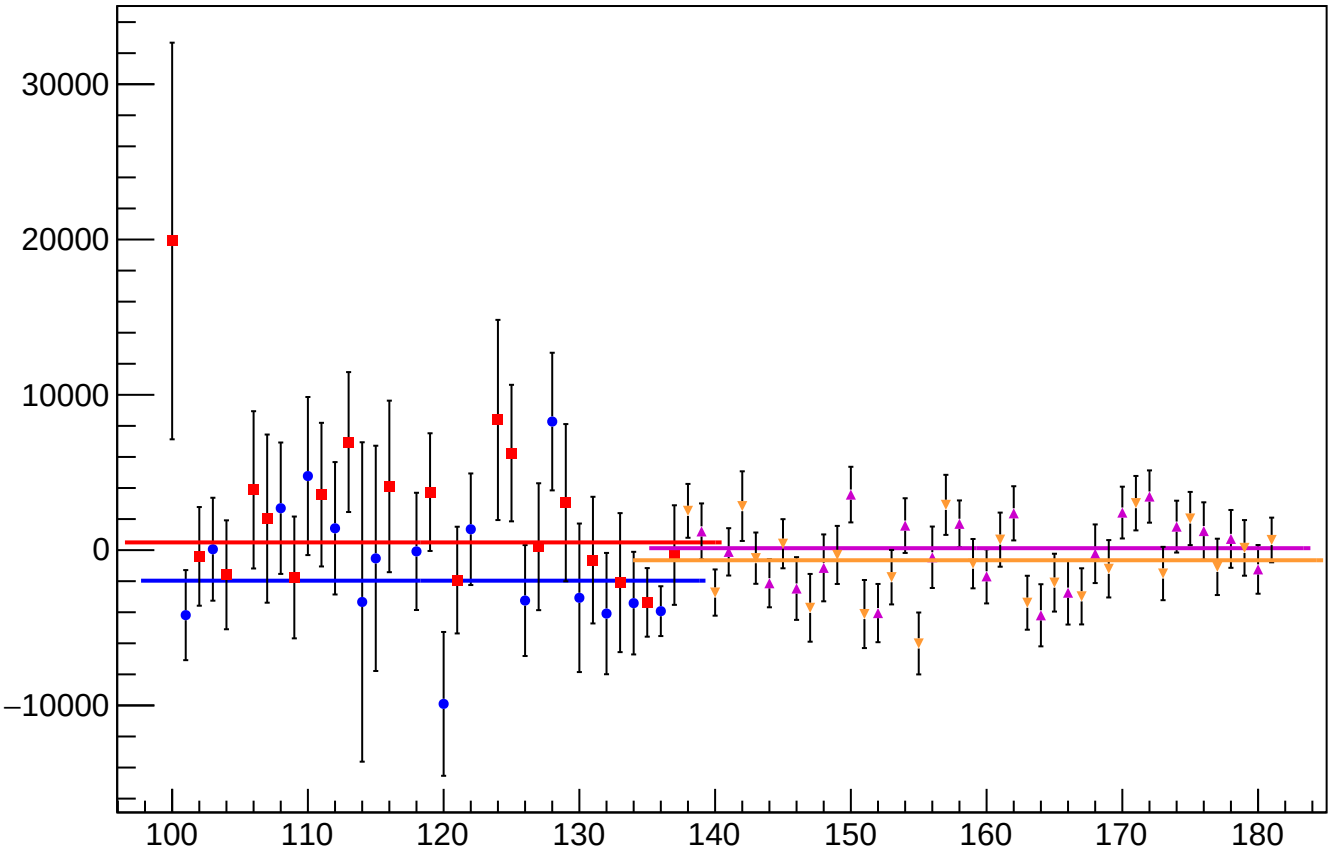
Left: 215.916+/-0.026 $\chi^2$/NDF: 330941.9/43

Right: 221.924+/-0.041 $\chi^2$/NDF: 646088.3/34

In: 218.233+/-0.031 $\chi^2$/NDF:478770.0/36

Out: 216.973+/-0.030 $\chi^2$/NDF:512628.5/41

All: 217.584+/-0.022 $\chi^2$/NDF: 992231.5/78




Right In: -1967.414+/-876.610 $\chi^2$/NDF: 16.2/15

Left Out: -651.973+/-368.913 $\chi^2$/NDF:37.3/22

Right Out: 497.281+/-914.759 $\chi^2$/NDF: 14.8/18

Left In: 125.257+/-385.879 $\chi^2$/NDF:32.1/20

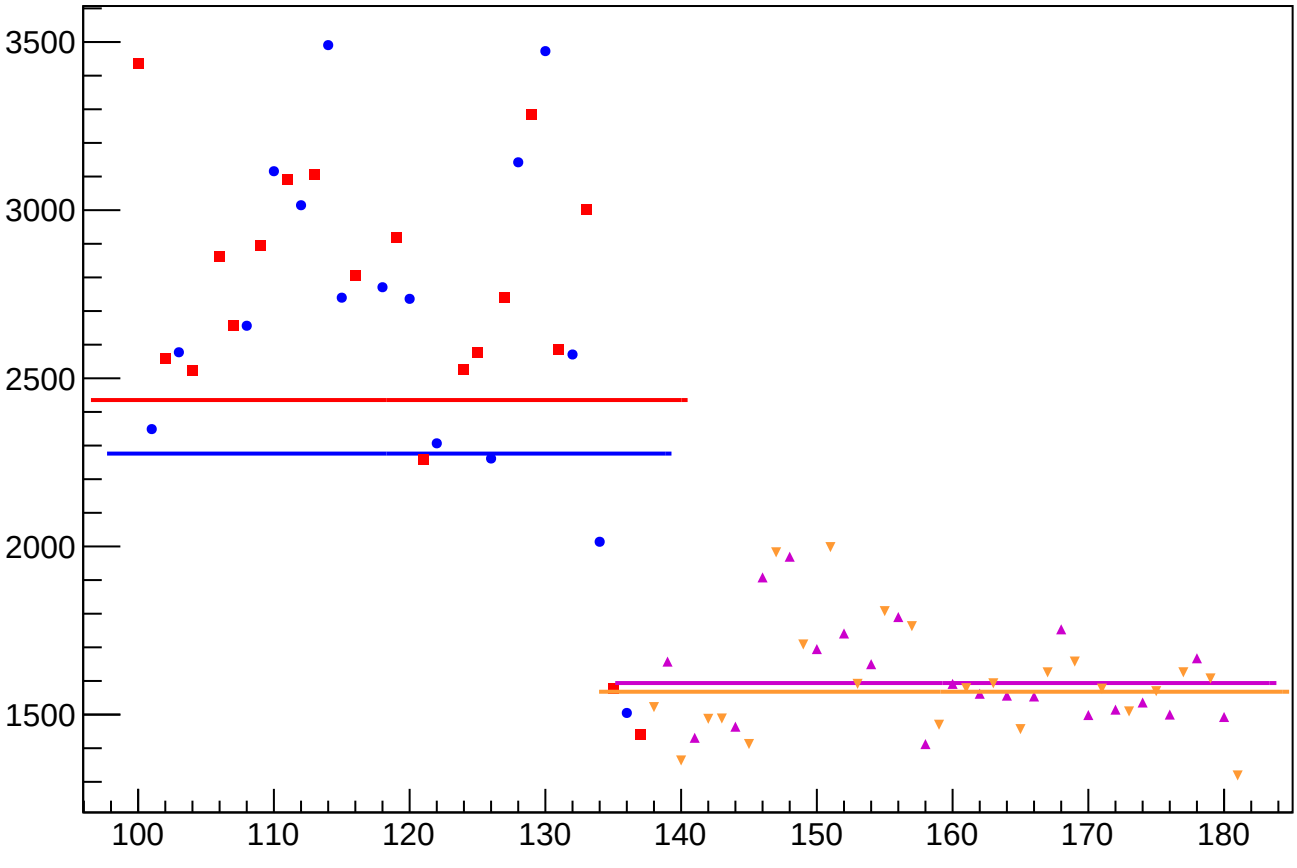
Left: -280.819+/-266.657 $\chi^2$/NDF: 71.6/43

Right: -787.531+/-632.914 $\chi^2$/NDF: 34.7/34

In: -214.422+/-353.175 $\chi^2$/NDF:53.1/36

Out: -491.204+/-342.138 $\chi^2$/NDF:53.4/41

All: -357.205+/-245.737 $\chi^2$/NDF: 106.8/78




Right In: 2276.134+/-0.620 $\chi^2$/NDF: 926982.8/15

Left Out: 1567.962+/-0.261 $\chi^2$/NDF:363031.5/22

Right Out: 2435.354+/-0.647 $\chi^2$/NDF: 791515.5/18

Left In: 1593.810+/-0.273 $\chi^2$/NDF:264485.3/20

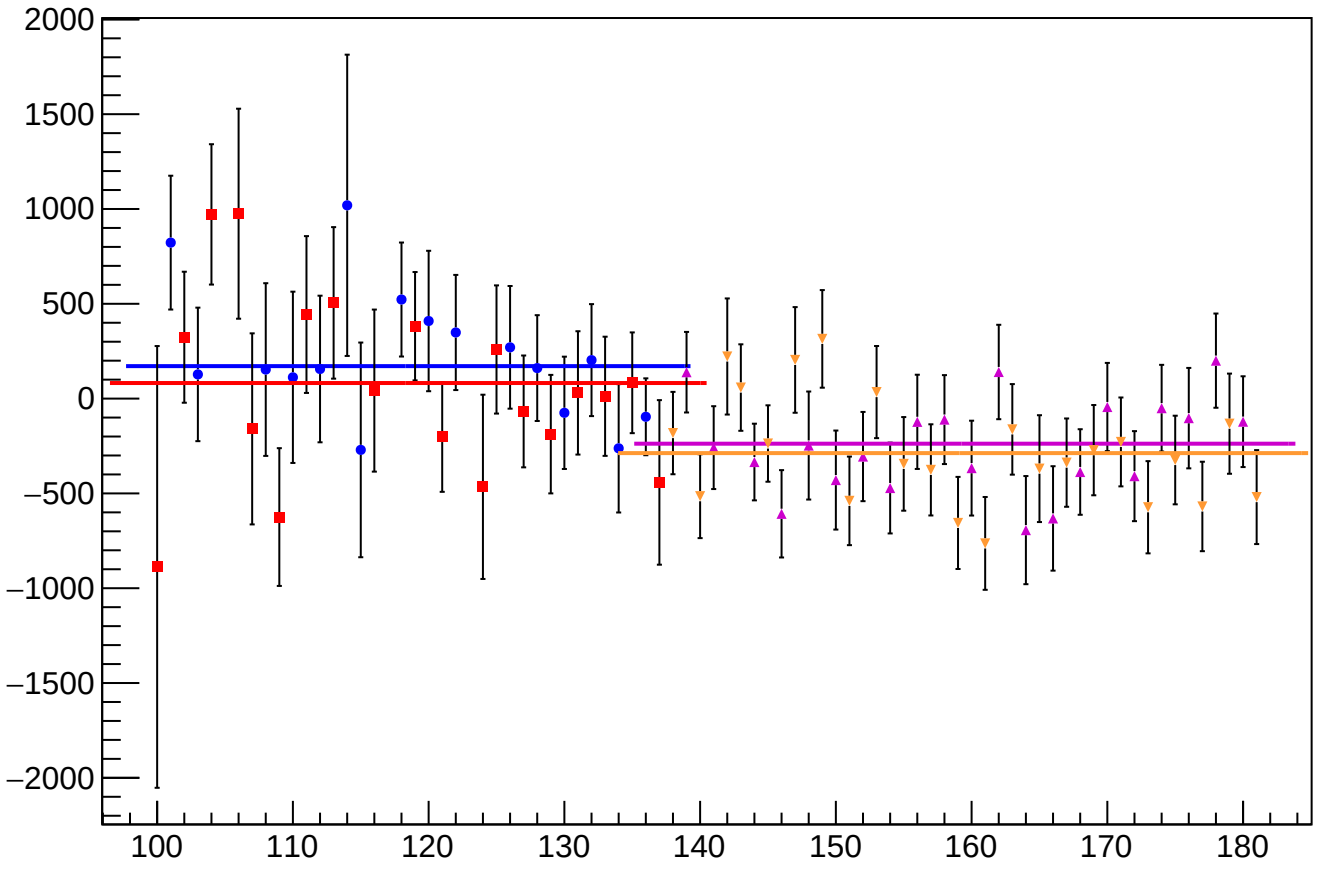
Left: 1580.305+/-0.189 $\chi^2$/NDF: 632205.6/43

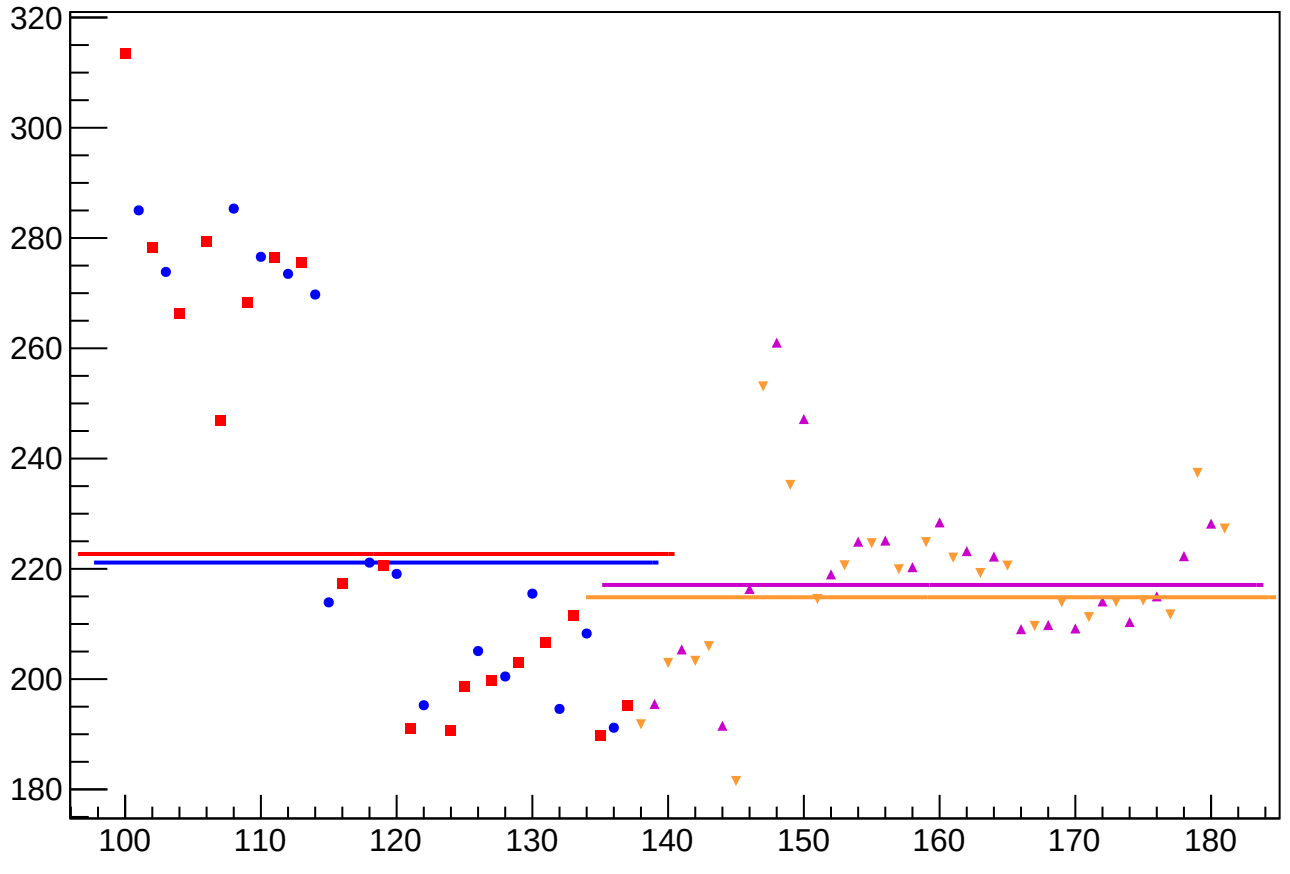
Right: 2352.355+/-0.448 $\chi^2$/NDF: 1750083.9/34

In: 1704.564+/-0.250 $\chi^2$/NDF:2206495.2/36

Out: 1689.302+/-0.242 $\chi^2$/NDF:2701232.7/41

All: 1696.691+/-0.174 $\chi^2$/NDF: 4909654.7/78


eigen_dit_asym_sam_26_dd_mean vs Slug, Sign Corrected
2000
1500
1000
500
0
−500
−1000
−1500
−2000
100
110
120
130
140
150
160
170
180
Right In: 171.260+/-83.115 χ²/NDF: 11.5/15
Left Out: -287.454+/-50.315 χ²/NDF:28.7/22
Right Out: 82.150+/-82.545 χ²/NDF: 21.6/18
Left In: -237.814+/-52.428 χ²/NDF:21.1/20
Left: -263.655+/-36.302 χ²/NDF: 50.3/43
Right: 126.398+/-58.569 χ²/NDF: 33.7/34
In: -121.375+/-44.343 χ²/NDF:50.0/36
Out: -187.329+/-42.963 χ²/NDF:64.9/41
All: -155.394+/-30.856 χ²/NDF: 116.1/78




Right In: 221.138+/-0.059 $\chi^2$/NDF: 318696.9/15

Left Out: 214.847+/-0.036 $\chi^2$/NDF:172410.2/22

Right Out: 222.696+/-0.058 $\chi^2$/NDF: 327025.2/18

Left In: 217.077+/-0.037 $\chi^2$/NDF:156653.8/20

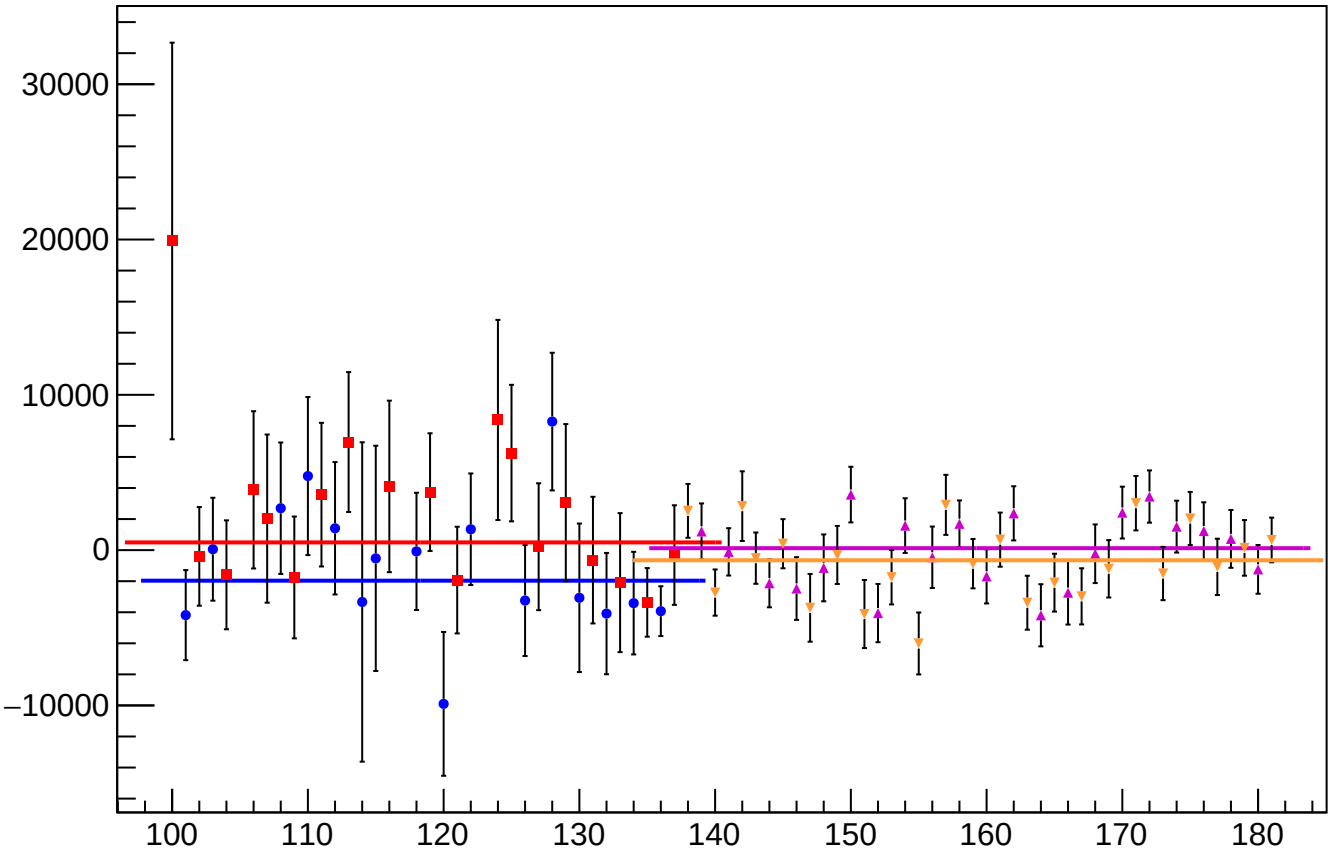
Left: 215.916+/-0.026 $\chi^2$/NDF: 330948.5/43

Right: 221.923+/-0.041 $\chi^2$/NDF: 646076.2/34

In: 218.233+/-0.031 $\chi^2$/NDF:478765.9/36

Out: 216.973+/-0.030 $\chi^2$/NDF:512622.9/41

All: 217.583+/-0.022 $\chi^2$/NDF: 992221.5/78




Right In: -1967.409+/-876.608 $\chi^2$/NDF: 16.2/15

Left Out: -651.974+/-368.913 $\chi^2$/NDF:37.3/22

Right Out: 497.282+/-914.757 $\chi^2$/NDF: 14.8/18

Left In: 125.258+/-385.879 $\chi^2$/NDF:32.1/20

Left: -280.819+/-266.657 $\chi^2$/NDF: 71.6/43

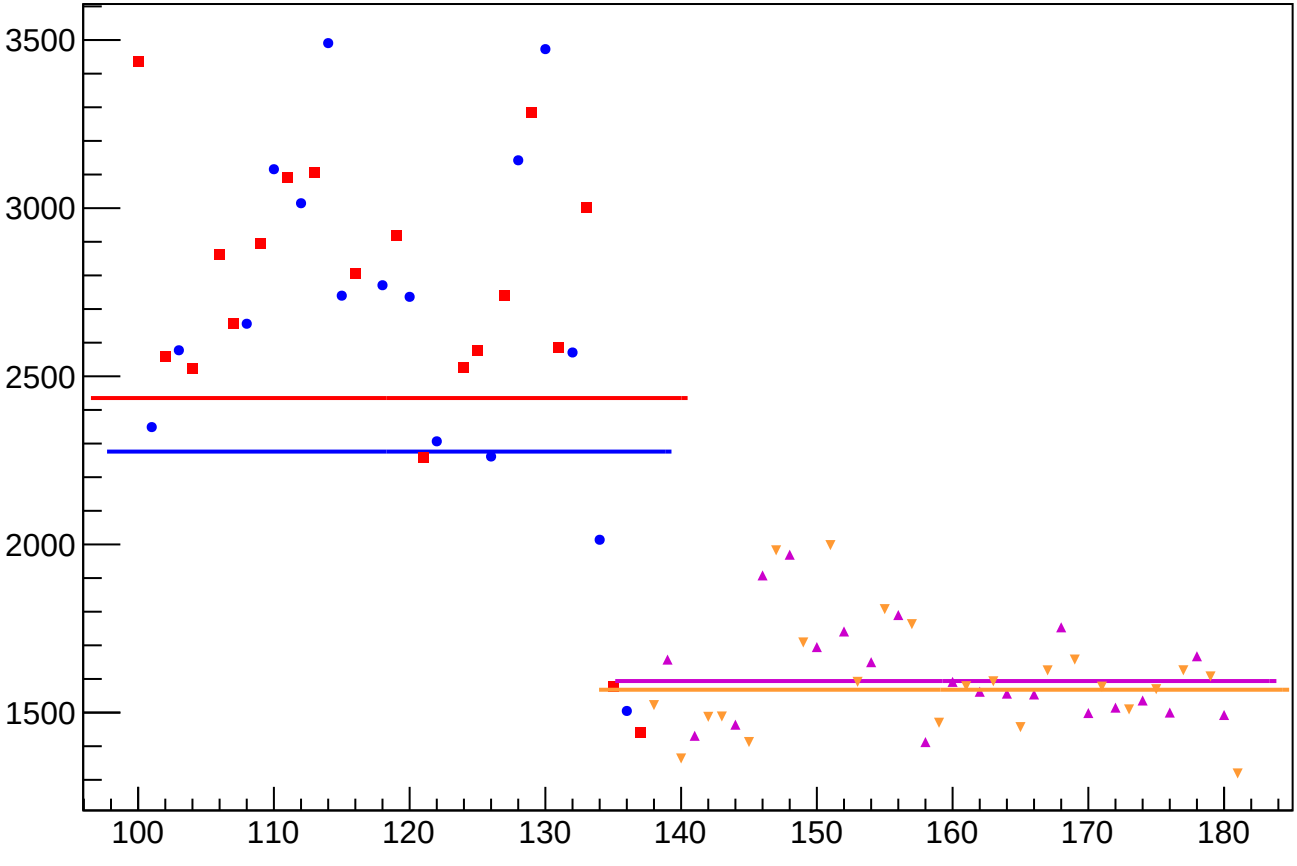
Right: -787.528+/-632.913 $\chi^2$/NDF: 34.7/34

In: -214.421+/-353.175 $\chi^2$/NDF:53.1/36

Out: -491.203+/-342.138 $\chi^2$/NDF:53.4/41

All: -357.205+/-245.737 $\chi^2$/NDF: 106.8/78

asym_sam_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 2276.132+/-0.620 $\chi^2$/NDF: 926973.2/15

Left Out: 1567.962+/-0.261 $\chi^2$/NDF:363034.7/22

Right Out: 2435.351+/-0.647 $\chi^2$/NDF: 791509.5/18

Left In: 1593.811+/-0.273 $\chi^2$/NDF:264486.4/20

Left: 1580.306+/-0.189 $\chi^2$/NDF: 632210.0/43

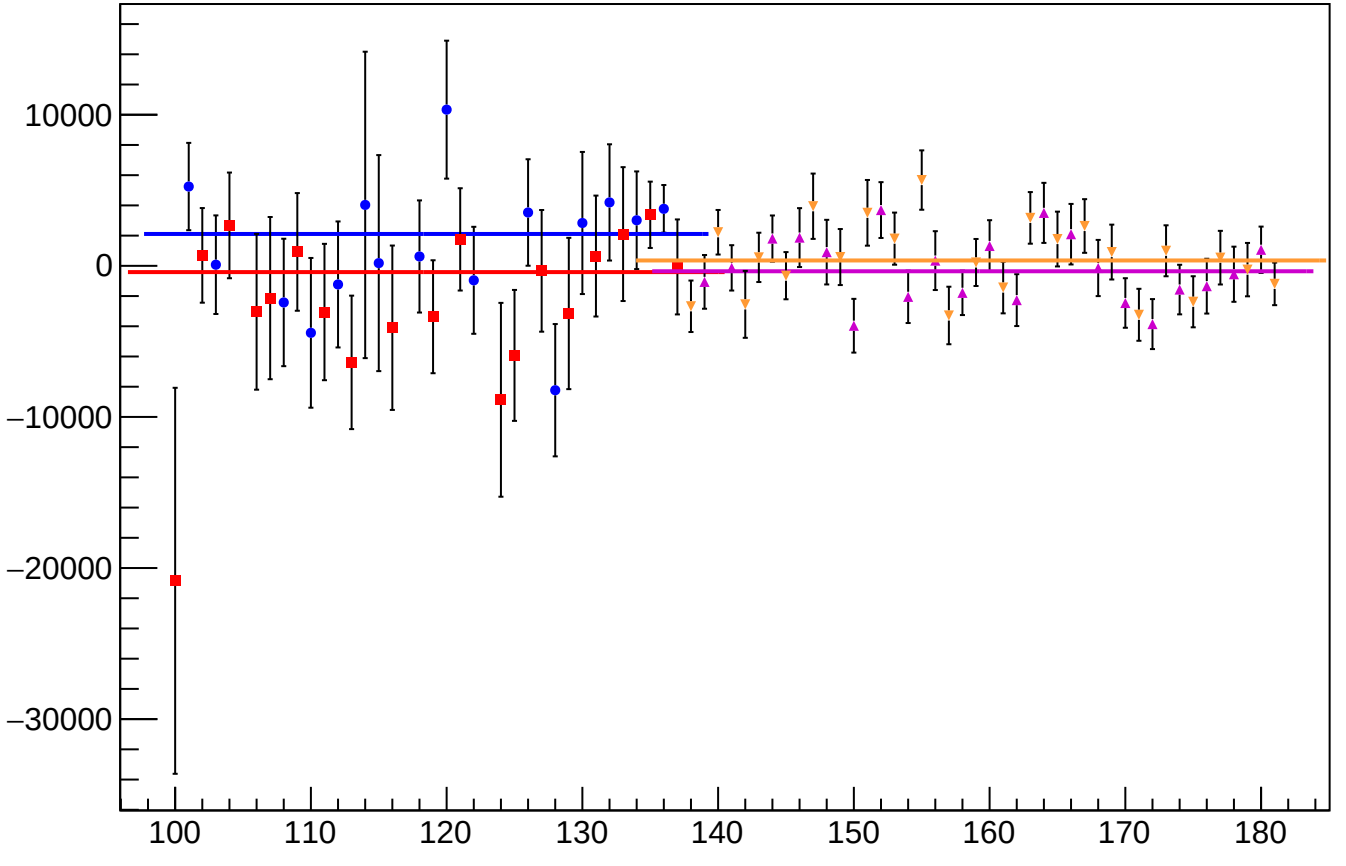
Right: 2352.352+/-0.448 $\chi^2$/NDF: 1750068.0/34

In: 1704.564+/-0.250 $\chi^2$/NDF:2206480.4/36

Out: 1689.302+/-0.242 $\chi^2$/NDF:2701220.3/41

All: 1696.691+/-0.174 $\chi^2$/NDF: 4909627.5/78

# asym_sam_26_dd_mean vs Slug, Sign Corrected




Right In: 2109.537+/-863.291 $\chi^2$/NDF: 16.6/15

Left Out: 355.911+/-363.076 $\chi^2$/NDF:38.2/22

Right Out: -414.095+/-904.414 $\chi^2$/NDF: 14.7/18

Left In: -358.947+/-379.295 $\chi^2$/NDF:30.1/20

Left: 14.092+/-262.280 $\chi^2$/NDF: 70.1/43

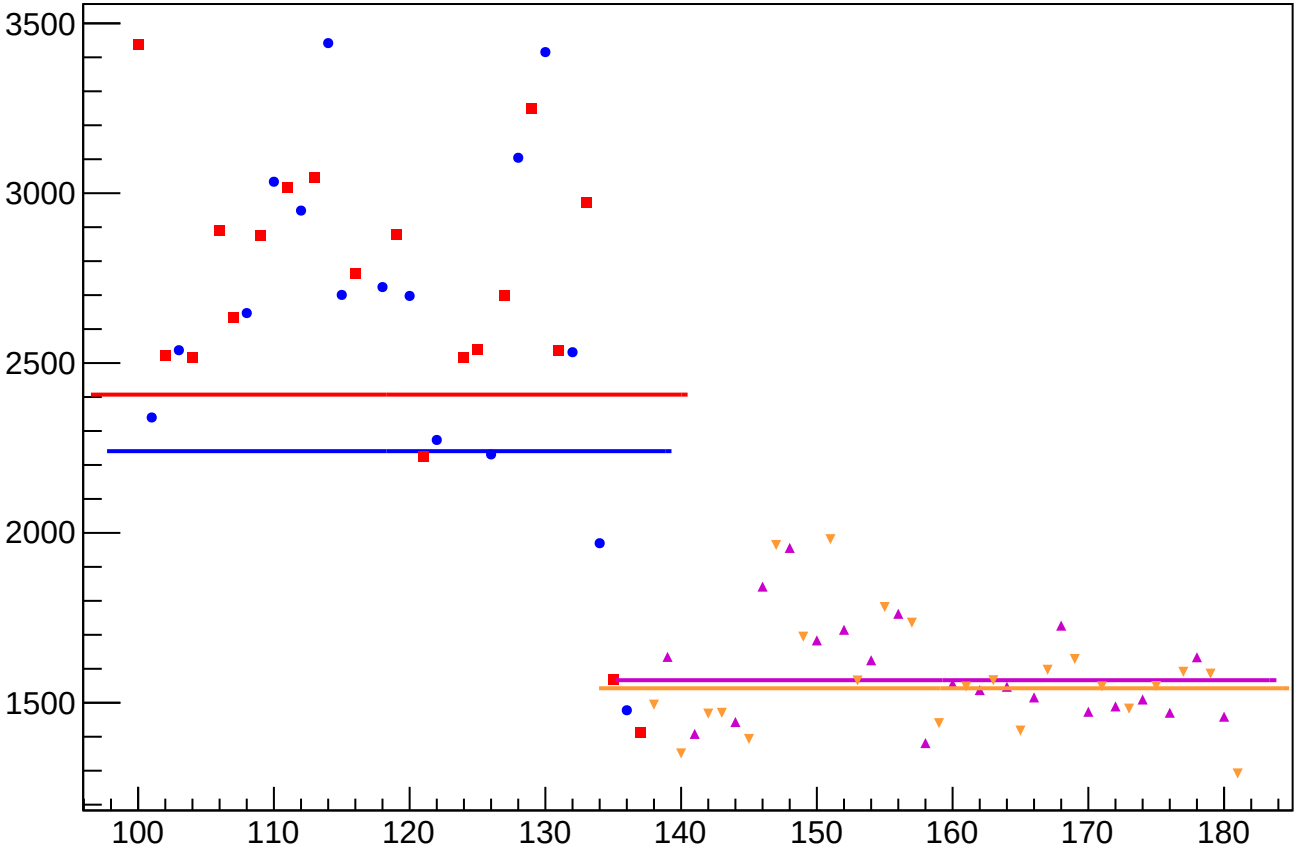
Right: 906.398+/-624.471 $\chi^2$/NDF: 35.4/34

In: 40.460+/-347.256 $\chi^2$/NDF:53.6/36

Out: 249.039+/-336.939 $\chi^2$/NDF:53.4/41

All: 147.894+/-241.817 $\chi^2$/NDF: 107.2/78

# asym_sam_26_dd_rms vs Slug, Sign Corrected




Right In: 2240.626+/-0.610 $\chi^2$/NDF: 933590.8/15

Left Out: 1542.672+/-0.257 $\chi^2$/NDF:374982.3/22

Right Out: 2407.124+/-0.640 $\chi^2$/NDF: 788976.1/18

Left In: 1566.402+/-0.268 $\chi^2$/NDF:268466.9/20

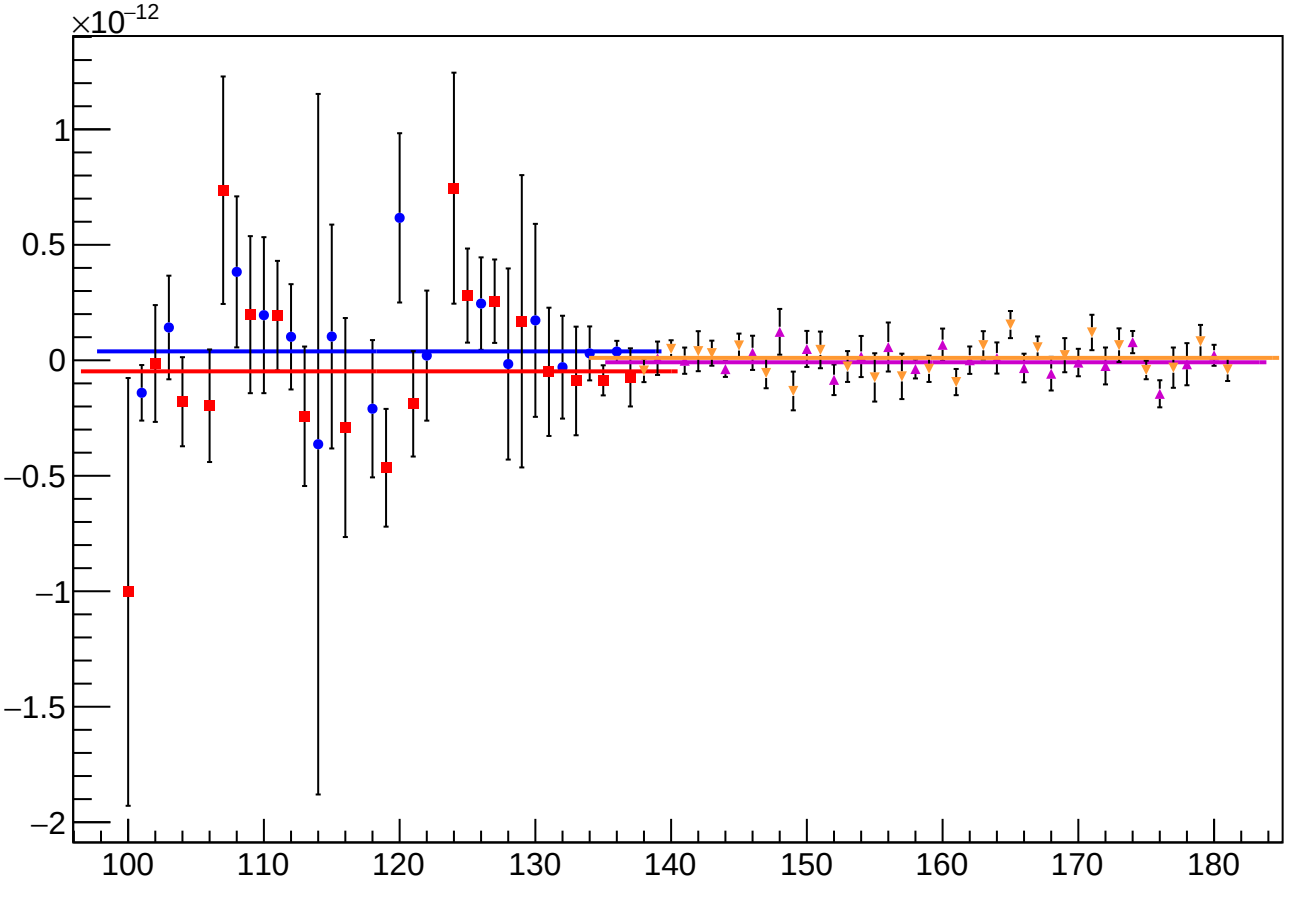
Left: 1554.019+/-0.185 $\chi^2$/NDF: 647534.3/43

Right: 2320.004+/-0.442 $\chi^2$/NDF: 1758033.9/34

In: 1675.493+/-0.246 $\chi^2$/NDF:2224574.5/36

Out: 1662.652+/-0.238 $\chi^2$/NDF:2737524.2/41

All: 1668.879+/-0.171 $\chi^2$/NDF: 4963507.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:27.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.8/20

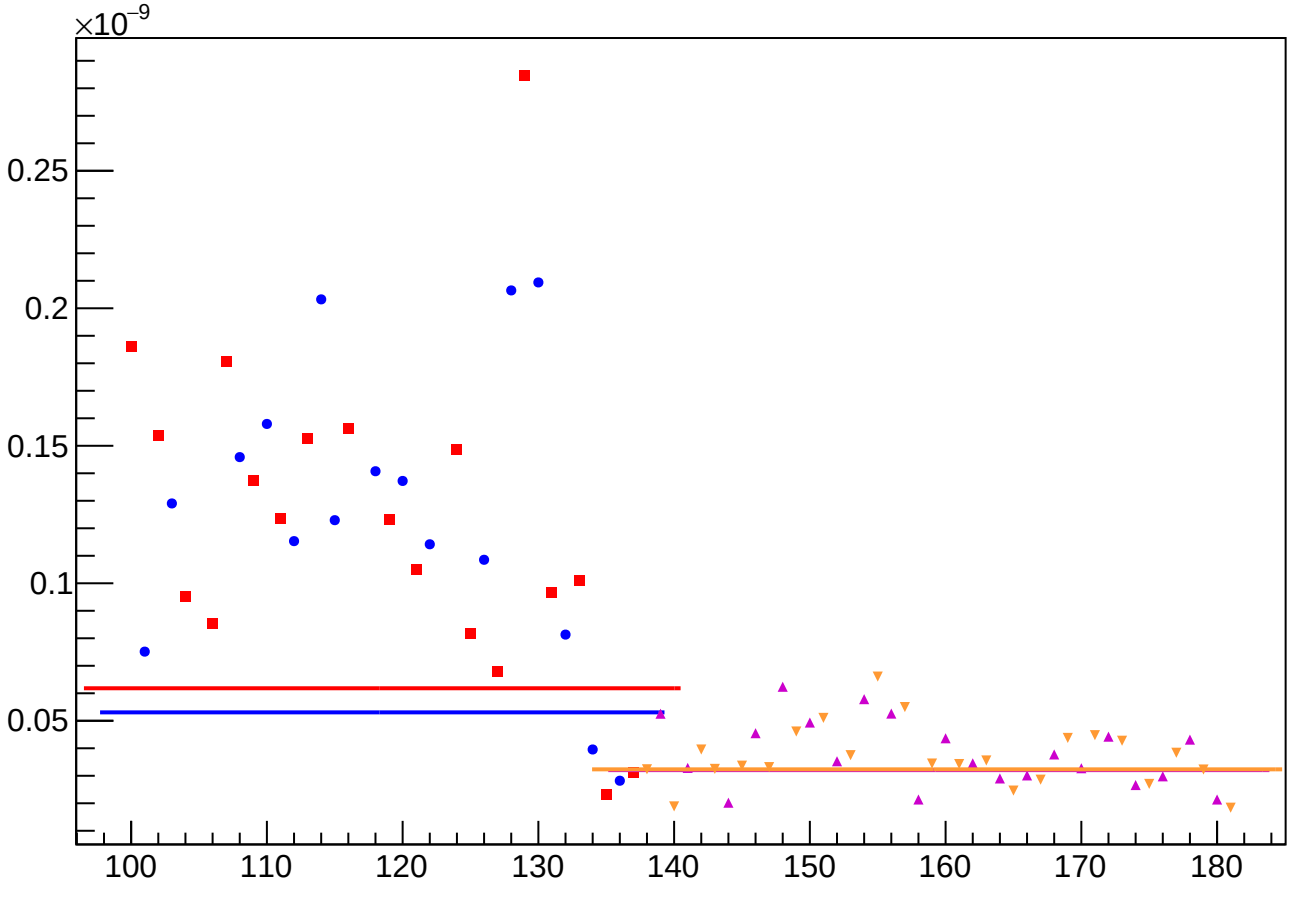
Left: 0.000+/-0.000 $\chi^2$/NDF: 45.7/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:26.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:47.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 74.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2576481.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1161970.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2416437.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1430352.3/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 2592798.8/43

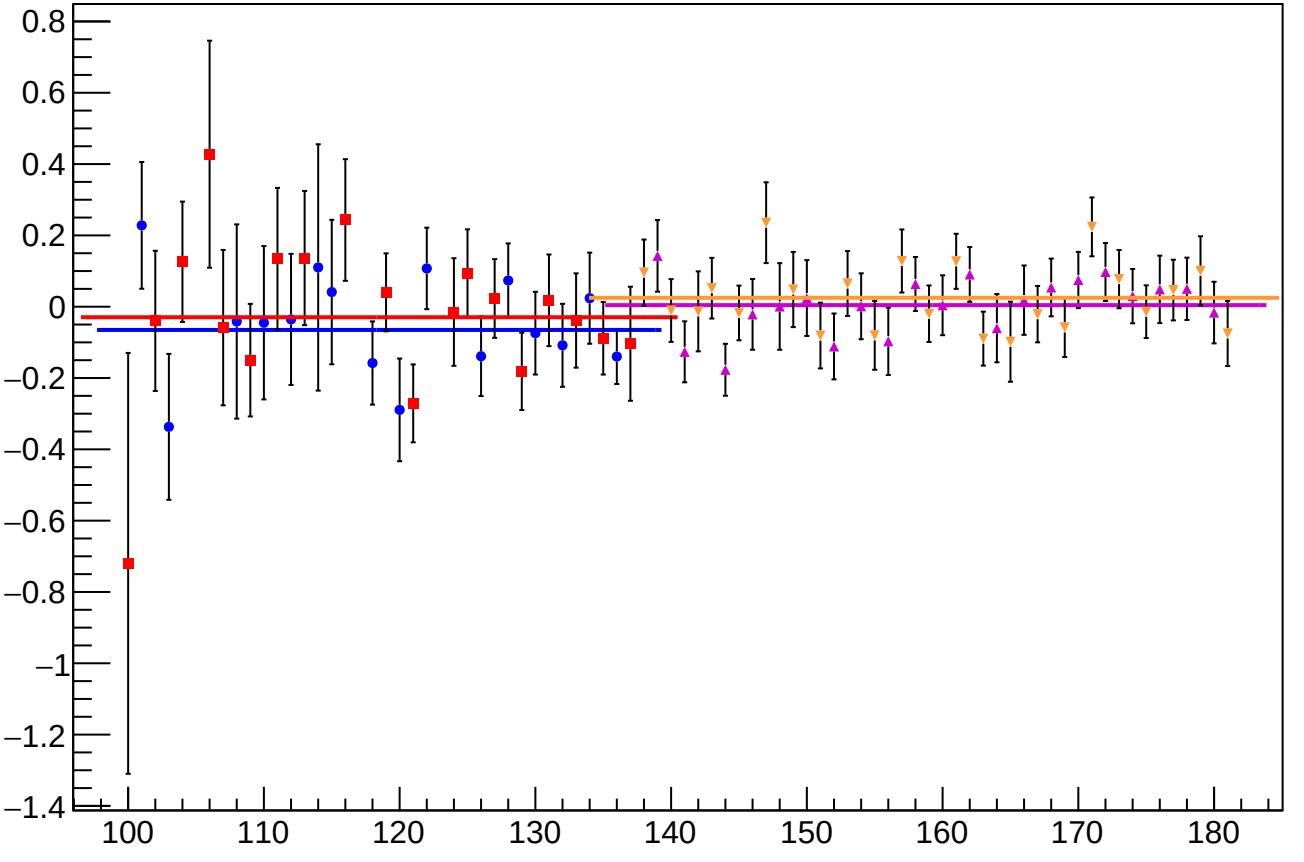
Right: 0.000+/-0.000 $\chi^2$/NDF: 5040906.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:4596727.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4432704.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9029501.5/78

asym_sam_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.025+/-0.018 $\chi^2$/NDF:24.1/22

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: 0.004+/-0.019 $\chi^2$/NDF:18.8/20

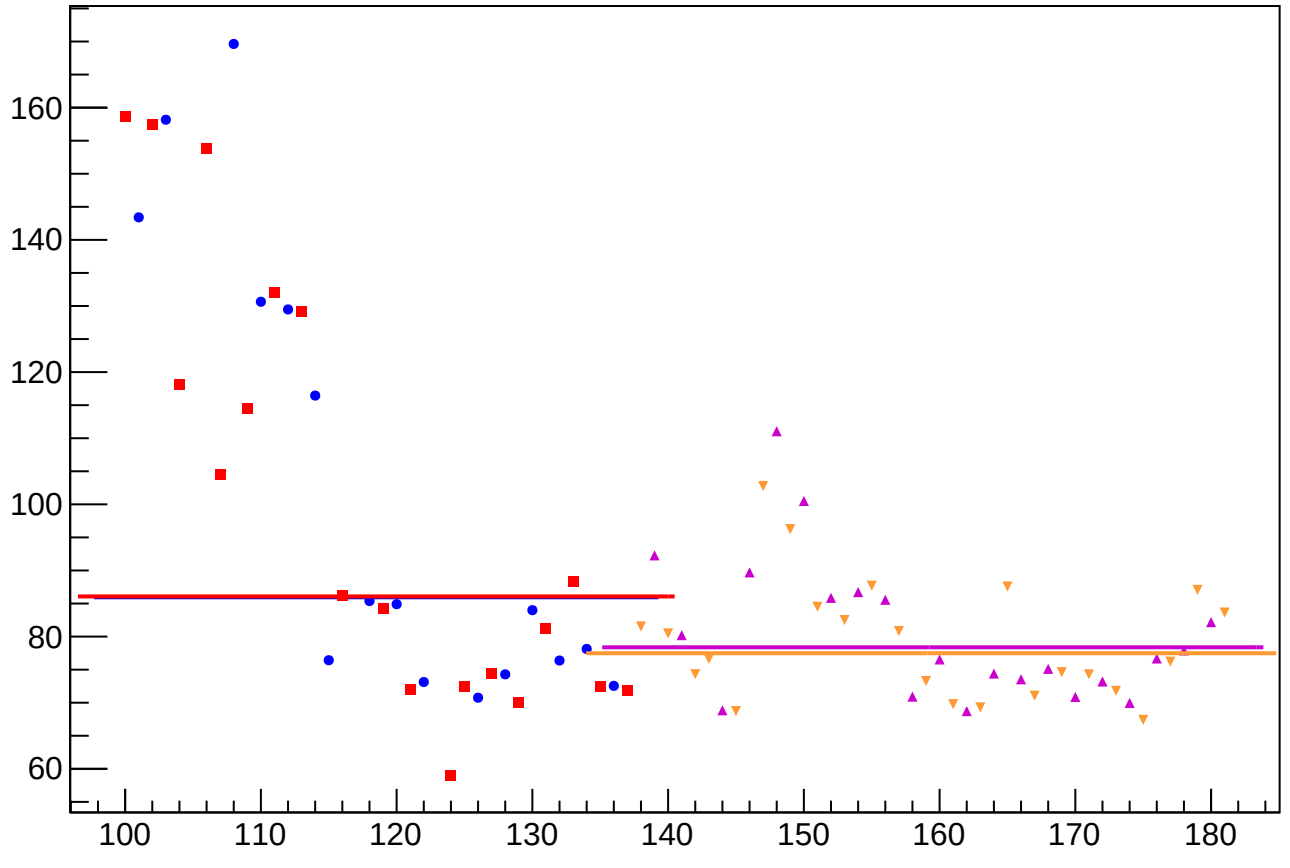
Left: 0.015+/-0.013 $\chi^2$/NDF: 43.5/43

Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.013+/-0.017 $\chi^2$/NDF:36.2/36

Out: 0.012+/-0.016 $\chi^2$/NDF:44.3/41

All: 0.000+/-0.011 $\chi^2$/NDF: 81.7/78




Right In: 85.946+/-0.024 $\chi^2$/NDF: 1035004.5/15

Left Out: 77.482+/-0.013 $\chi^2$/NDF:399455.2/22

Right Out: 86.073+/-0.023 $\chi^2$/NDF: 991371.4/18

Left In: 78.378+/-0.014 $\chi^2$/NDF:490783.8/20

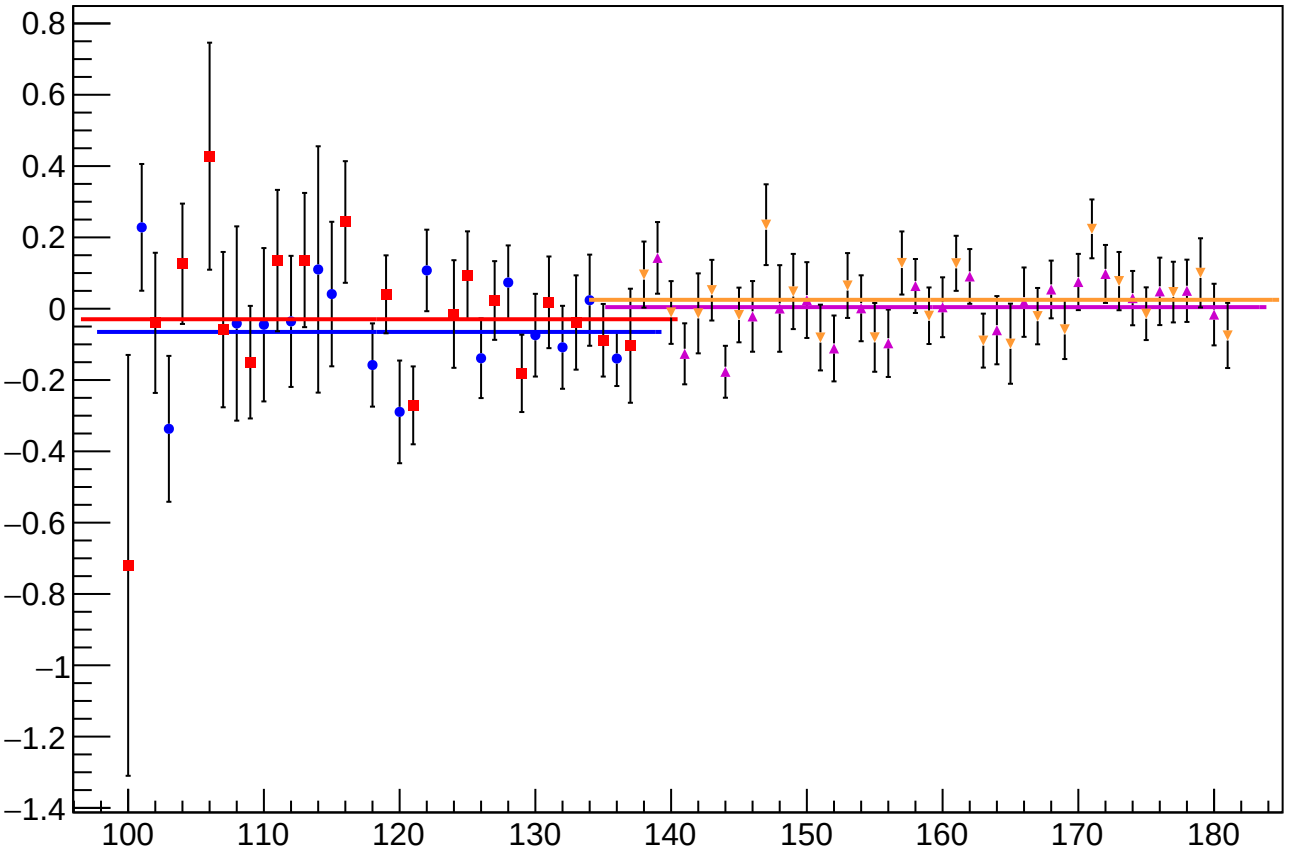
Left: 77.910+/-0.009 $\chi^2$/NDF: 892541.6/43

Right: 86.010+/-0.017 $\chi^2$/NDF: 2026390.6/34

In: 80.250+/-0.012 $\chi^2$/NDF:1603489.3/36

Out: 79.497+/-0.011 $\chi^2$/NDF:1494806.2/41

All: 79.859+/-0.008 $\chi^2$/NDF: 3100437.8/78




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.025+/-0.018 $\chi^2$/NDF:24.1/22

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: 0.004+/-0.019 $\chi^2$/NDF:18.8/20

Left: 0.015+/-0.013 $\chi^2$/NDF: 43.5/43

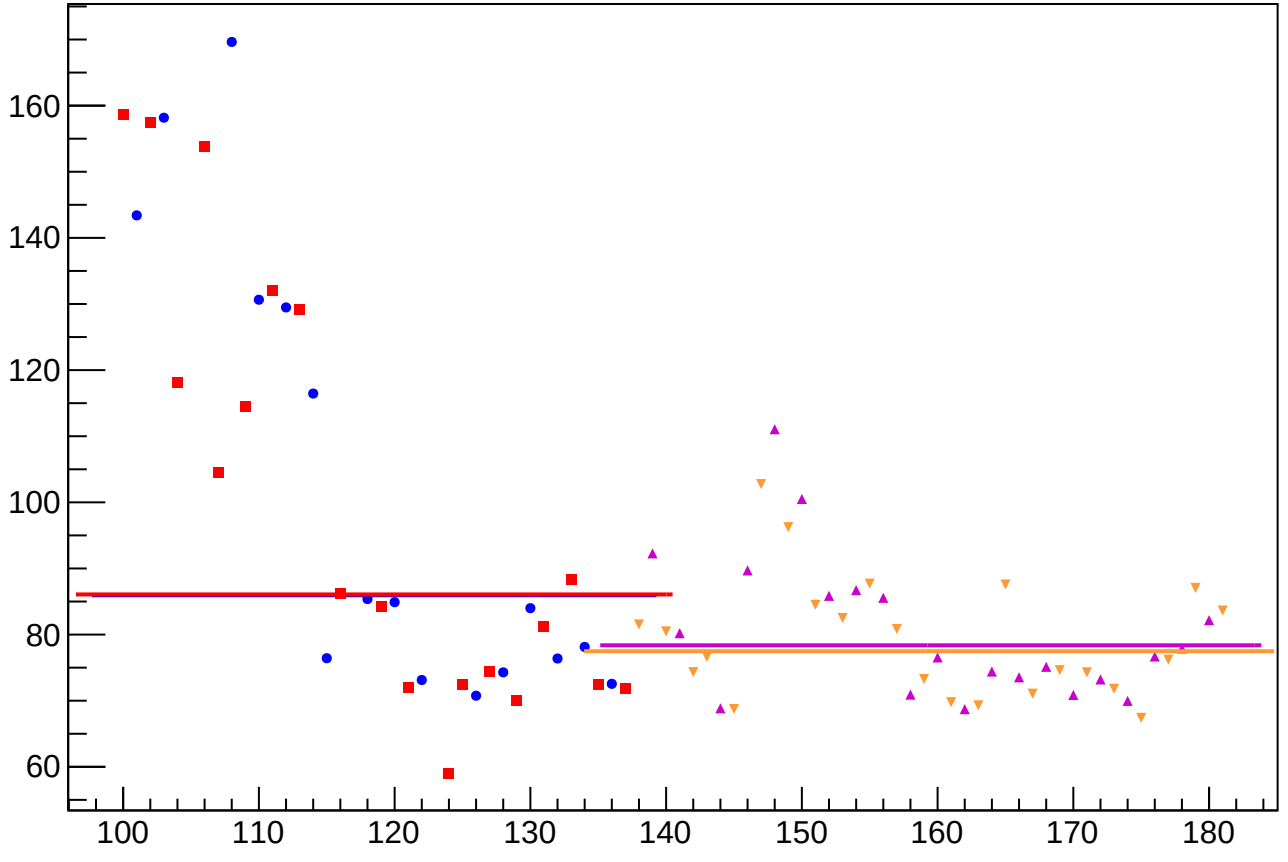
Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.013+/-0.017 $\chi^2$/NDF:36.2/36

Out: 0.012+/-0.016 $\chi^2$/NDF:44.3/41

All: 0.000+/-0.011 $\chi^2$/NDF: 81.7/78

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 85.946+/-0.024 $\chi^2$/NDF: 1035004.5/15

Left Out: 77.482+/-0.013 $\chi^2$/NDF:399455.2/22

Right Out: 86.073+/-0.023 $\chi^2$/NDF: 991371.4/18

Left In: 78.378+/-0.014 $\chi^2$/NDF:490783.8/20

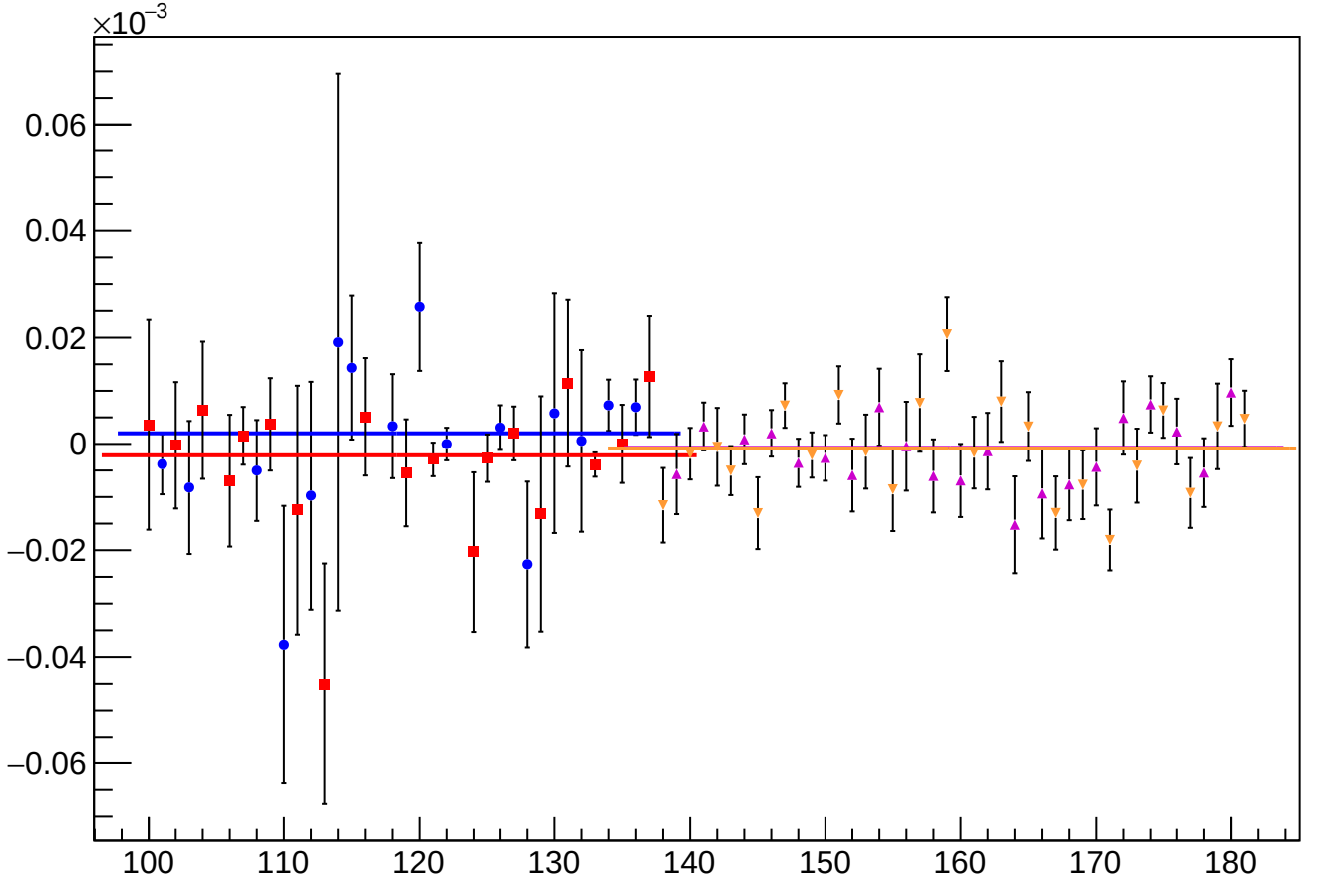
Left: 77.910+/-0.009 $\chi^2$/NDF: 892541.6/43

Right: 86.010+/-0.017 $\chi^2$/NDF: 2026390.6/34

In: 80.250+/-0.012 $\chi^2$/NDF:1603489.3/36

Out: 79.497+/-0.011 $\chi^2$/NDF:1494806.2/41

All: 79.859+/-0.008 $\chi^2$/NDF: 3100437.8/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:45.5/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.8/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 62.3/43

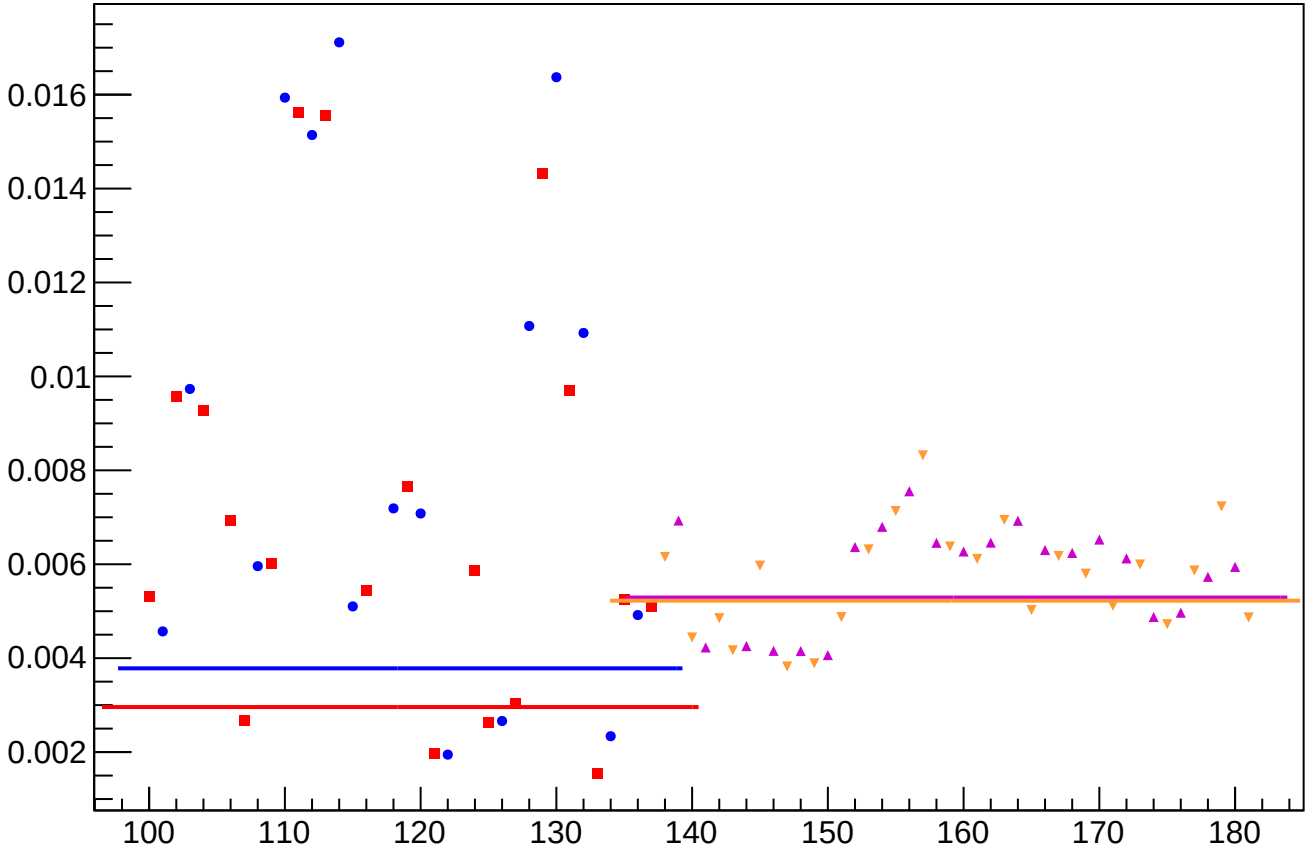
Right: -0.000+/-0.000 $\chi^2$/NDF: 29.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:33.3/36

Out: -0.000+/-0.000 $\chi^2$/NDF:57.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 92.2/78

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 4694299.9/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:1489347.6/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 5548113.4/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:1427041.0/20

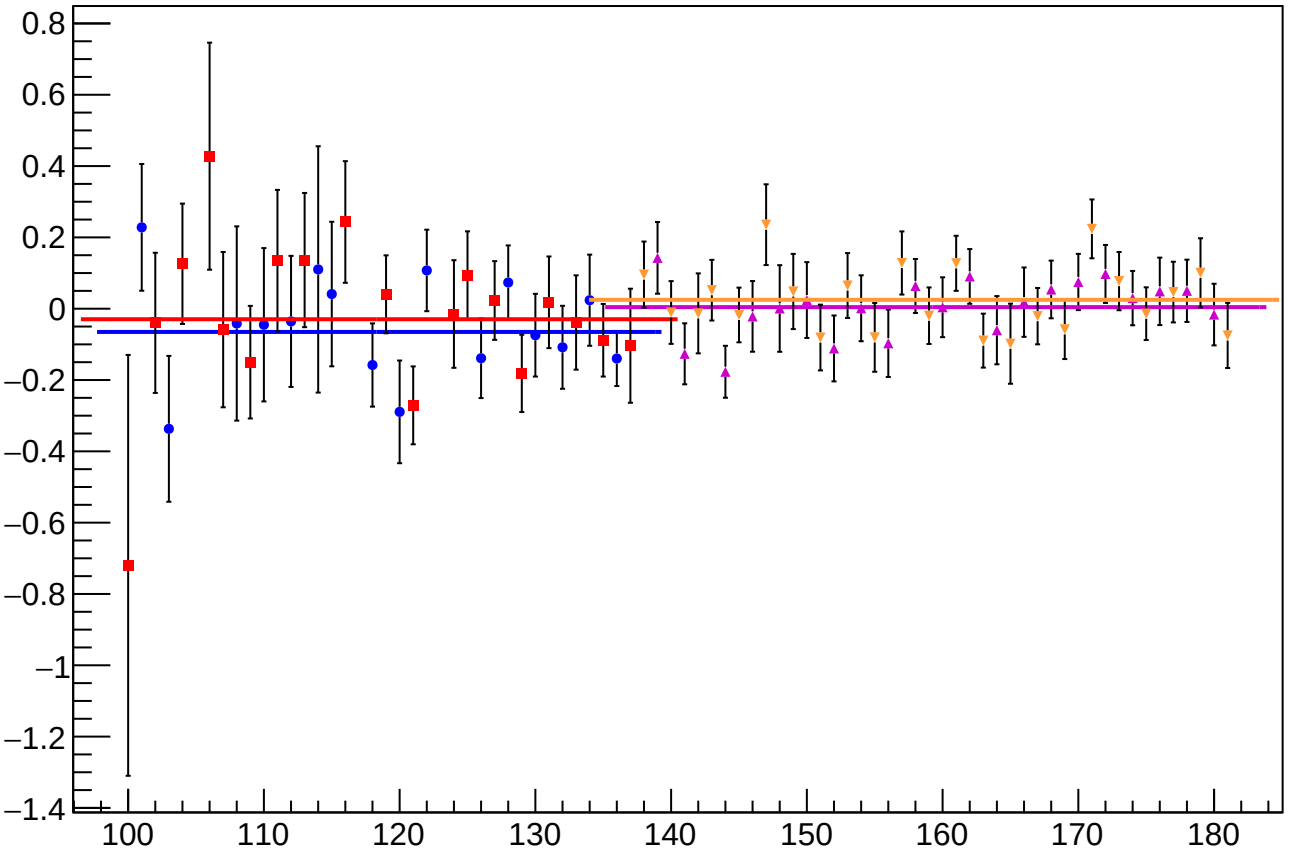
Left: 0.005+/-0.000 $\chi^2$/NDF: 2919114.7/43

Right: 0.003+/-0.000 $\chi^2$/NDF: 10513157.6/34

In: 0.005+/-0.000 $\chi^2$/NDF:7074574.0/36

Out: 0.004+/-0.000 $\chi^2$/NDF:9938647.4/41

All: 0.004+/-0.000 $\chi^2$/NDF: 17297623.1/78




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.025+/-0.018 $\chi^2$/NDF:24.1/22

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: 0.004+/-0.019 $\chi^2$/NDF:18.8/20

Left: 0.015+/-0.013 $\chi^2$/NDF: 43.5/43

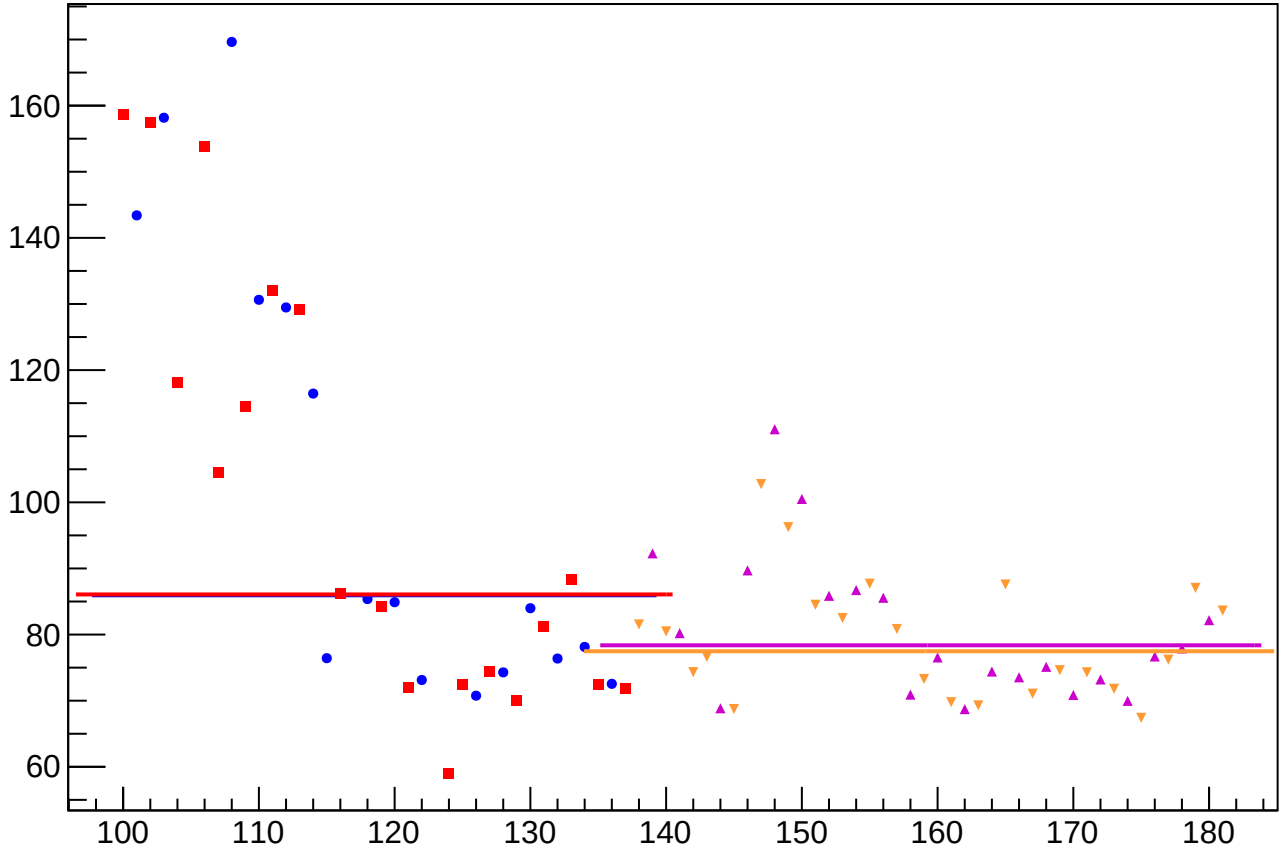
Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.013+/-0.017 $\chi^2$/NDF:36.2/36

Out: 0.012+/-0.016 $\chi^2$/NDF:44.3/41

All: 0.000+/-0.011 $\chi^2$/NDF: 81.7/78

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 85.943+/-0.024 $\chi^2$/NDF: 1034986.7/15

Left Out: 77.482+/-0.013 $\chi^2$/NDF:399493.4/22

Right Out: 86.070+/-0.023 $\chi^2$/NDF: 991365.2/18

Left In: 78.378+/-0.013 $\chi^2$/NDF:490822.5/20

Left: 77.909+/-0.009 $\chi^2$/NDF: 892617.3/43

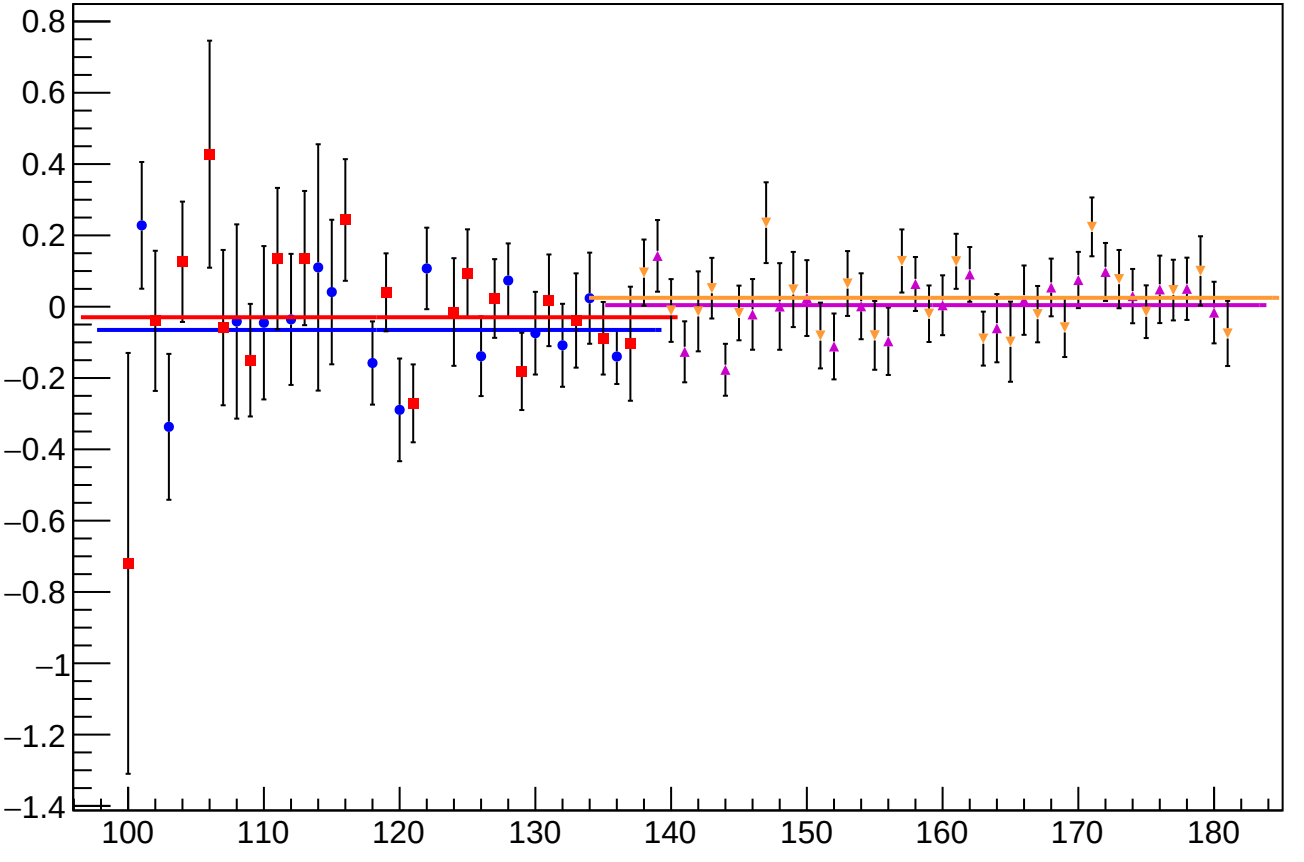
Right: 86.007+/-0.017 $\chi^2$/NDF: 2026366.7/34

In: 80.249+/-0.012 $\chi^2$/NDF:1603476.1/36

Out: 79.496+/-0.011 $\chi^2$/NDF:1494800.7/41

All: 79.859+/-0.008 $\chi^2$/NDF: 3100417.5/78

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.025+/-0.018 $\chi^2$/NDF:24.1/22

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: 0.004+/-0.019 $\chi^2$/NDF:18.8/20

Left: 0.015+/-0.013 $\chi^2$/NDF: 43.5/43

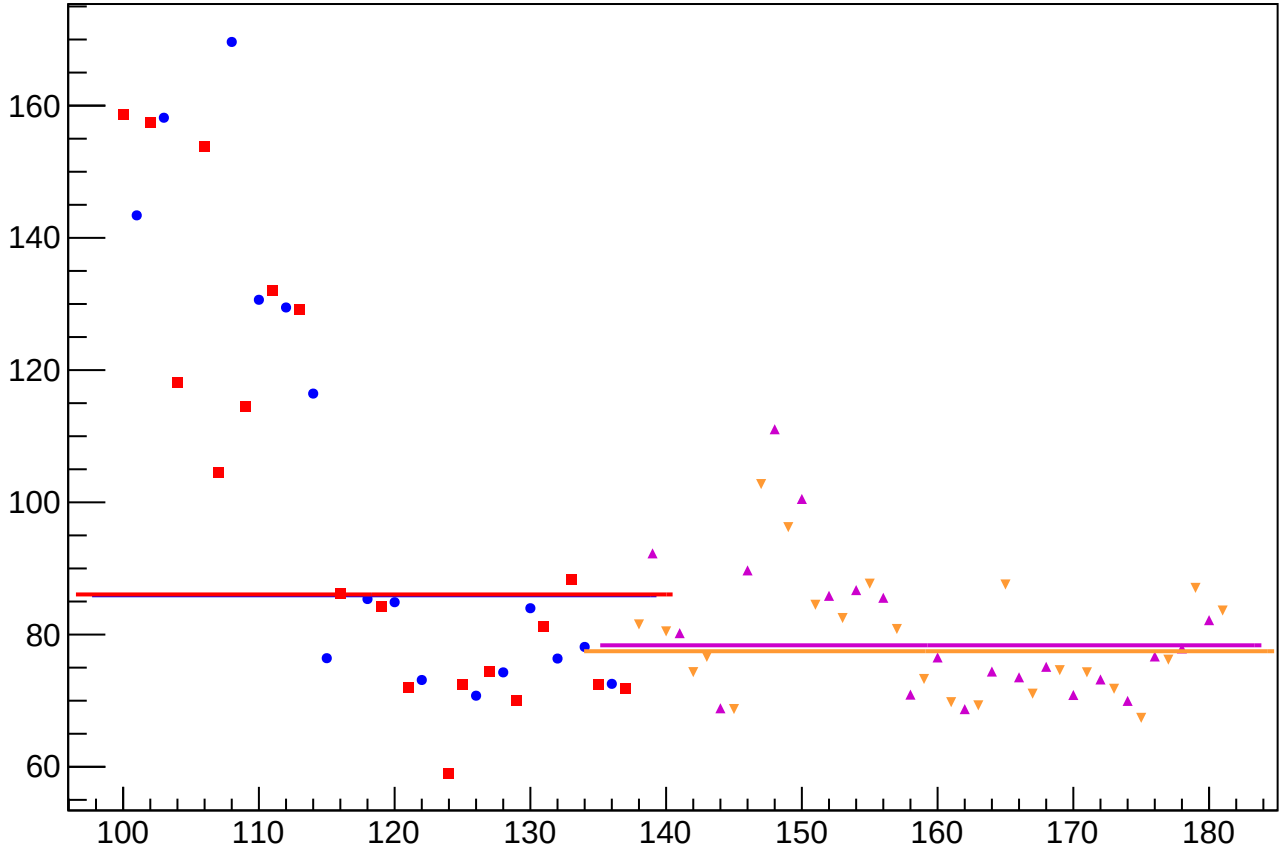
Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.013+/-0.017 $\chi^2$/NDF:36.2/36

Out: 0.012+/-0.016 $\chi^2$/NDF:44.3/41

All: 0.000+/-0.011 $\chi^2$/NDF: 81.7/78

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 85.943+/-0.024 $\chi^2$/NDF: 1034986.7/15

Left Out: 77.482+/-0.013 $\chi^2$/NDF:399493.4/22

Right Out: 86.070+/-0.023 $\chi^2$/NDF: 991365.2/18

Left In: 78.378+/-0.013 $\chi^2$/NDF:490822.5/20

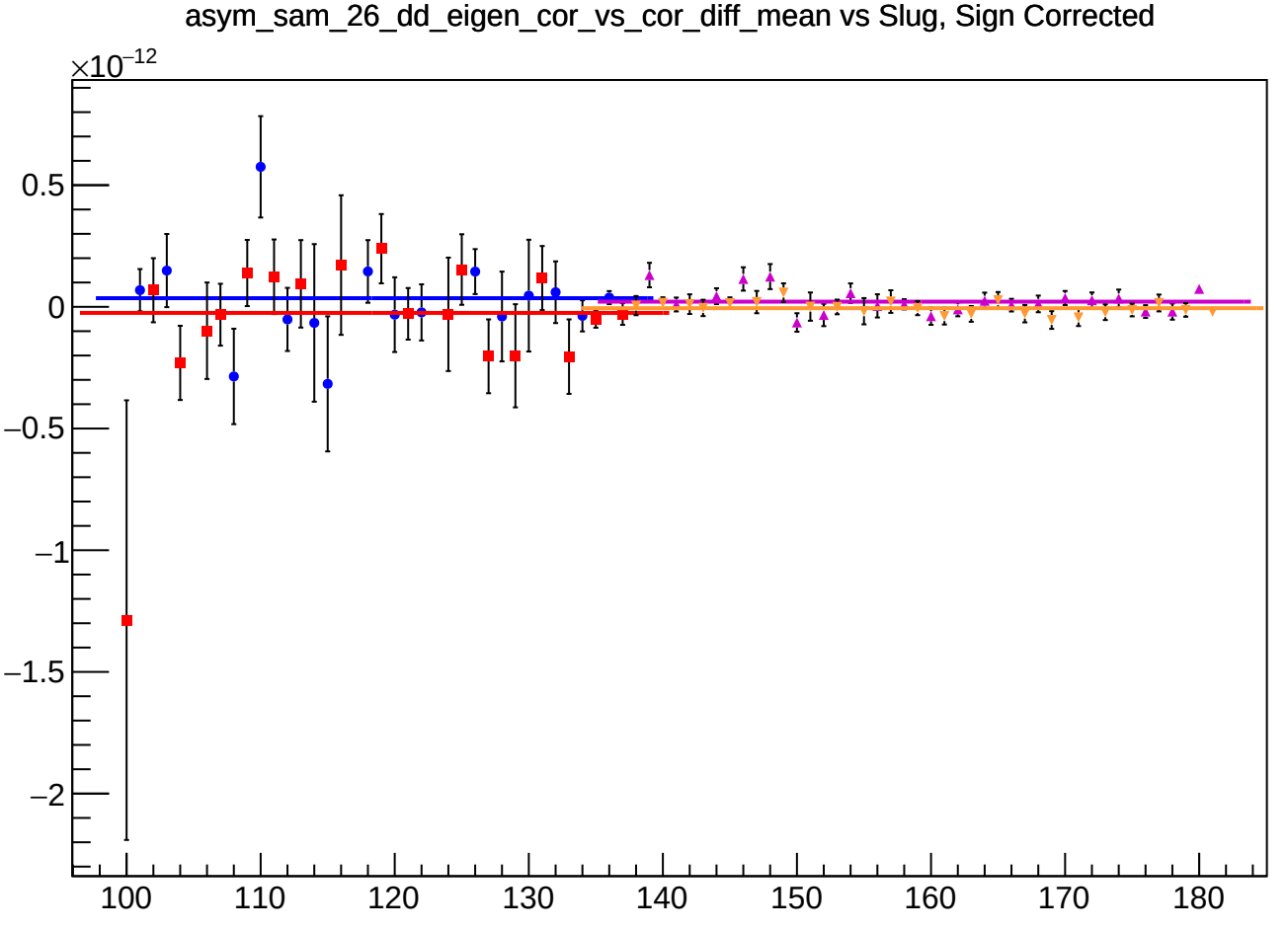
Left: 77.909+/-0.009 $\chi^2$/NDF: 892617.3/43

Right: 86.007+/-0.017 $\chi^2$/NDF: 2026366.7/34

In: 80.249+/-0.012 $\chi^2$/NDF:1603476.1/36

Out: 79.496+/-0.011 $\chi^2$/NDF:1494800.7/41

All: 79.859+/-0.008 $\chi^2$/NDF: 3100417.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:12.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:36.9/20

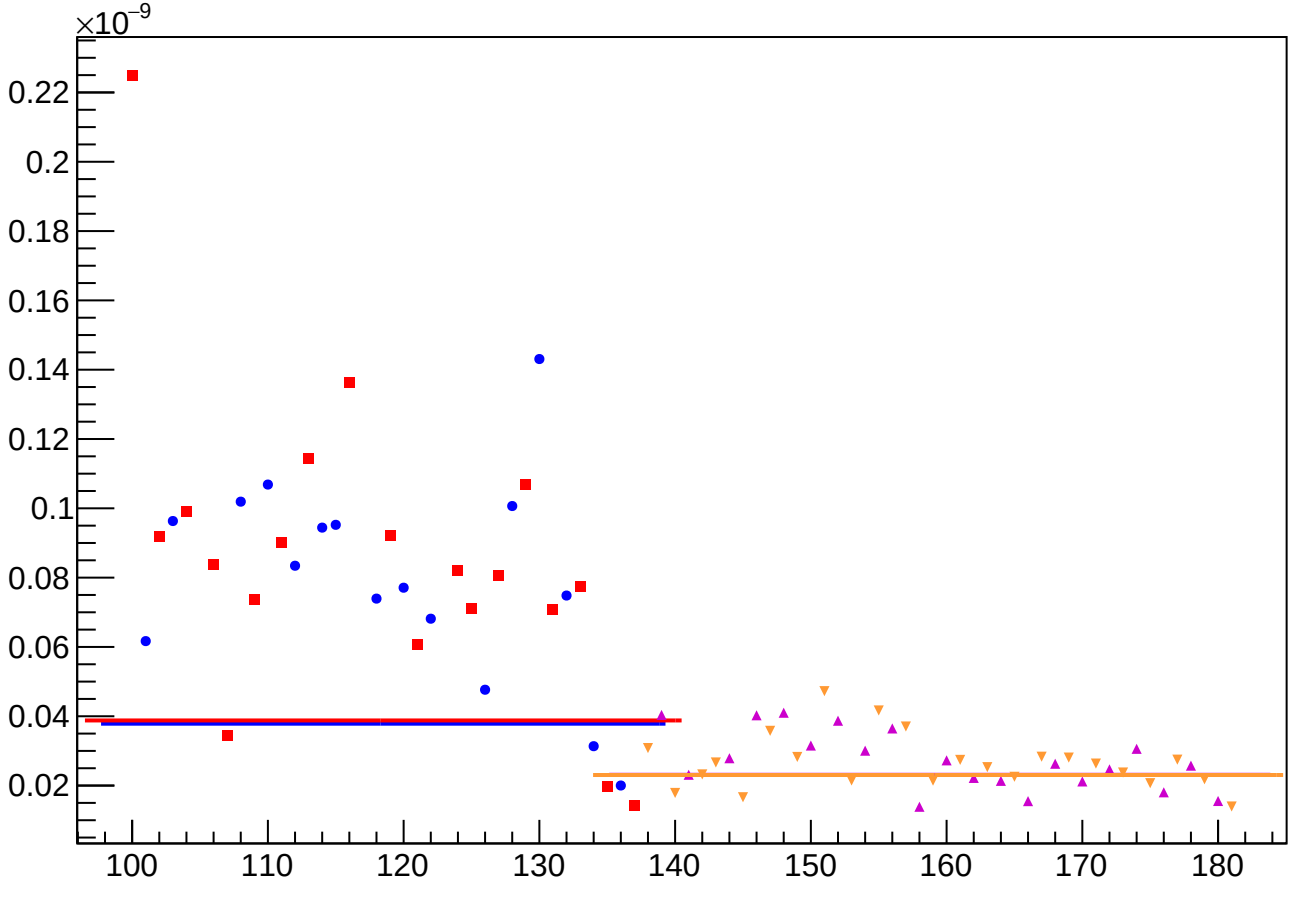
Left: 0.000+/-0.000 $\chi^2$/NDF: 57.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:53.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:31.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 95.8/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3456922.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2030060.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4121603.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2422385.9/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 4452534.4/43

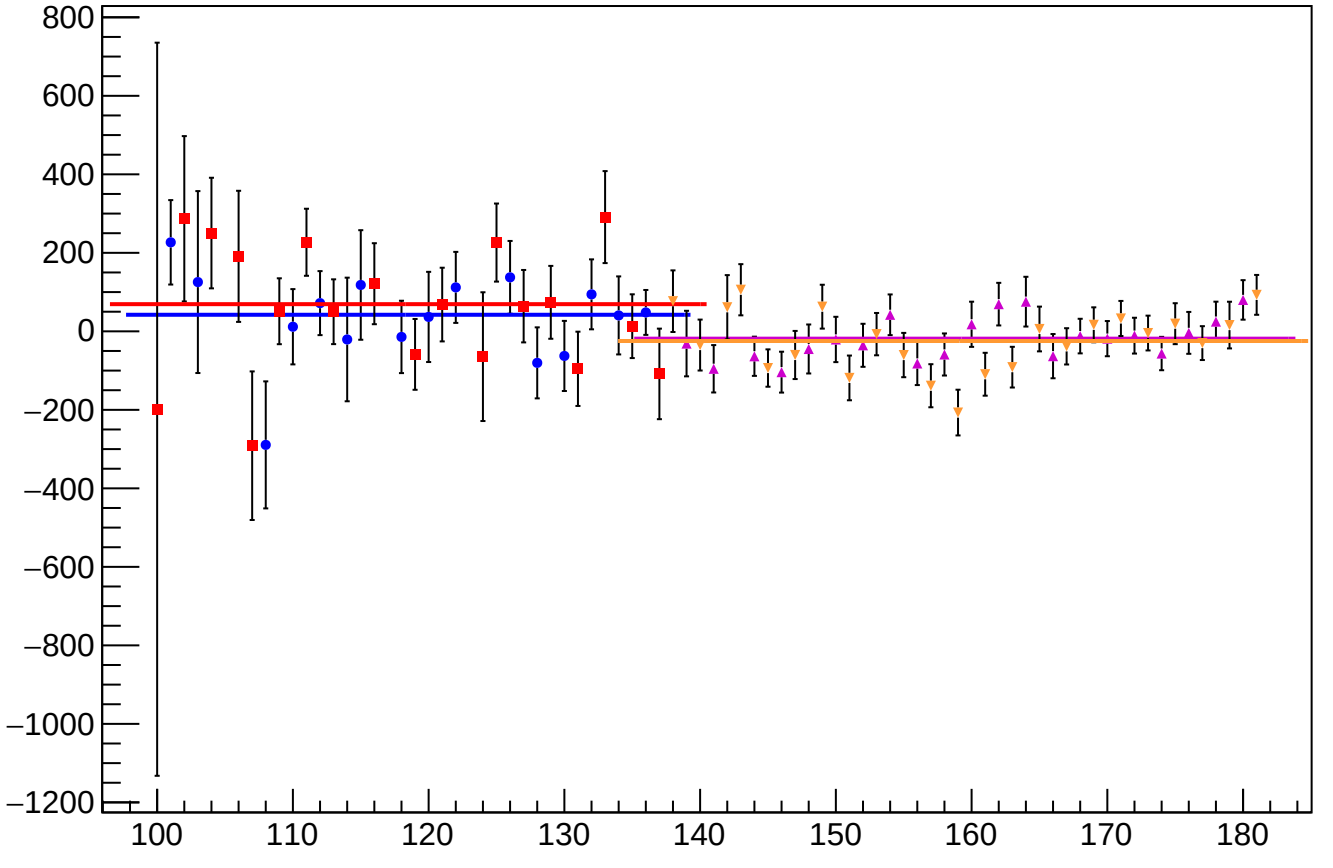
Right: 0.000+/-0.000 $\chi^2$/NDF: 7580417.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:6798730.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7077772.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 13878250.7/78

# reg_asym_sam_37_dd_mean vs Slug, Sign Corrected




Right In: 42.220+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: -24.620+/-11.196 $\chi^2$/NDF:42.7/22

Right Out: 69.249+/-24.418 $\chi^2$/NDF: 25.4/18

Left In: -18.653+/-11.536 $\chi^2$/NDF:20.0/20

Left: -21.726+/-8.034 $\chi^2$/NDF: 62.9/43

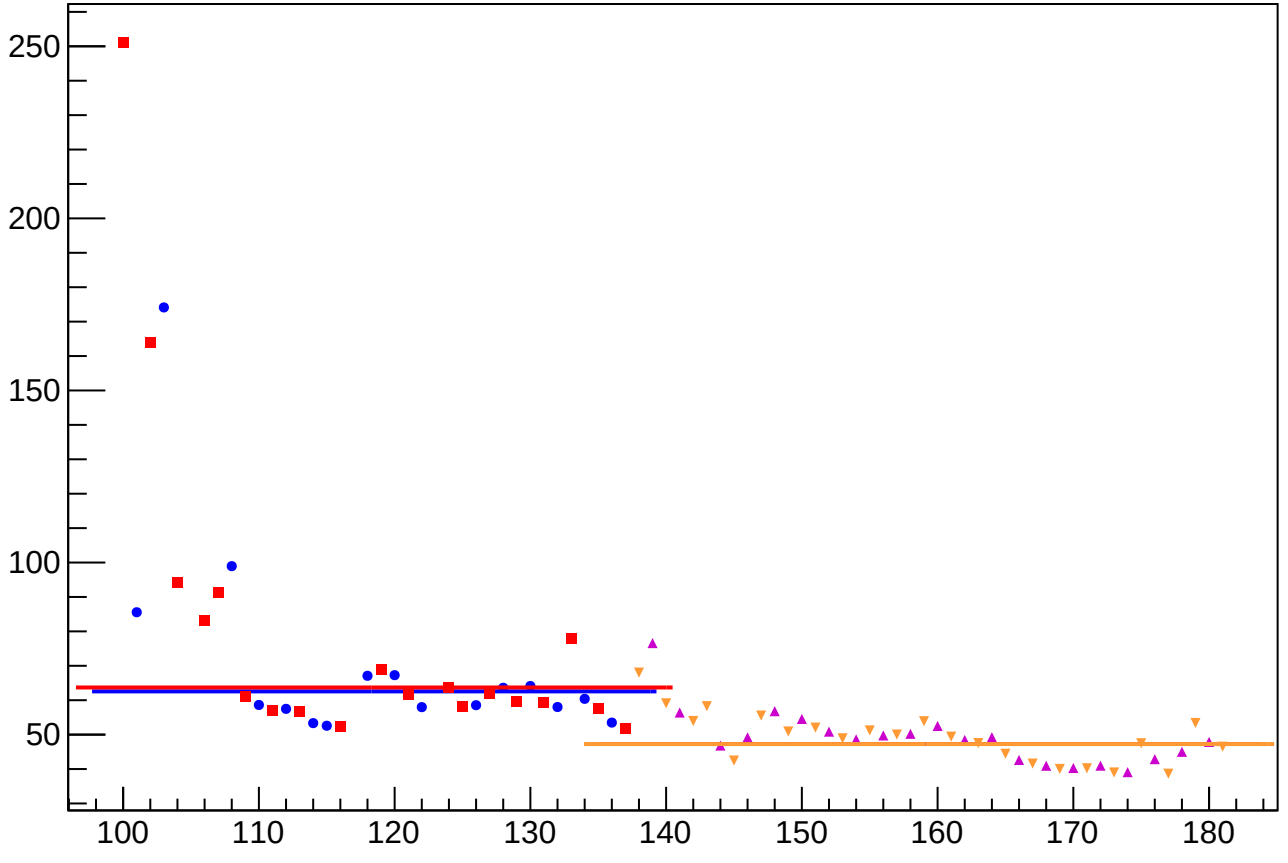
Right: 55.617+/-17.191 $\chi^2$/NDF: 39.5/34

In: -7.387+/-10.414 $\chi^2$/NDF:38.7/36

Out: -8.315+/-10.177 $\chi^2$/NDF:80.3/41

All: -7.862+/-7.279 $\chi^2$/NDF: 119.1/78

# reg_asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758603.5/15

Left Out: 47.261+/-0.008 $\chi^2$/NDF:710369.5/22

Right Out: 63.699+/-0.017 $\chi^2$/NDF: 834180.2/18

Left In: 47.275+/-0.008 $\chi^2$/NDF:646680.3/20

Left: 47.268+/-0.006 $\chi^2$/NDF: 1357051.4/43

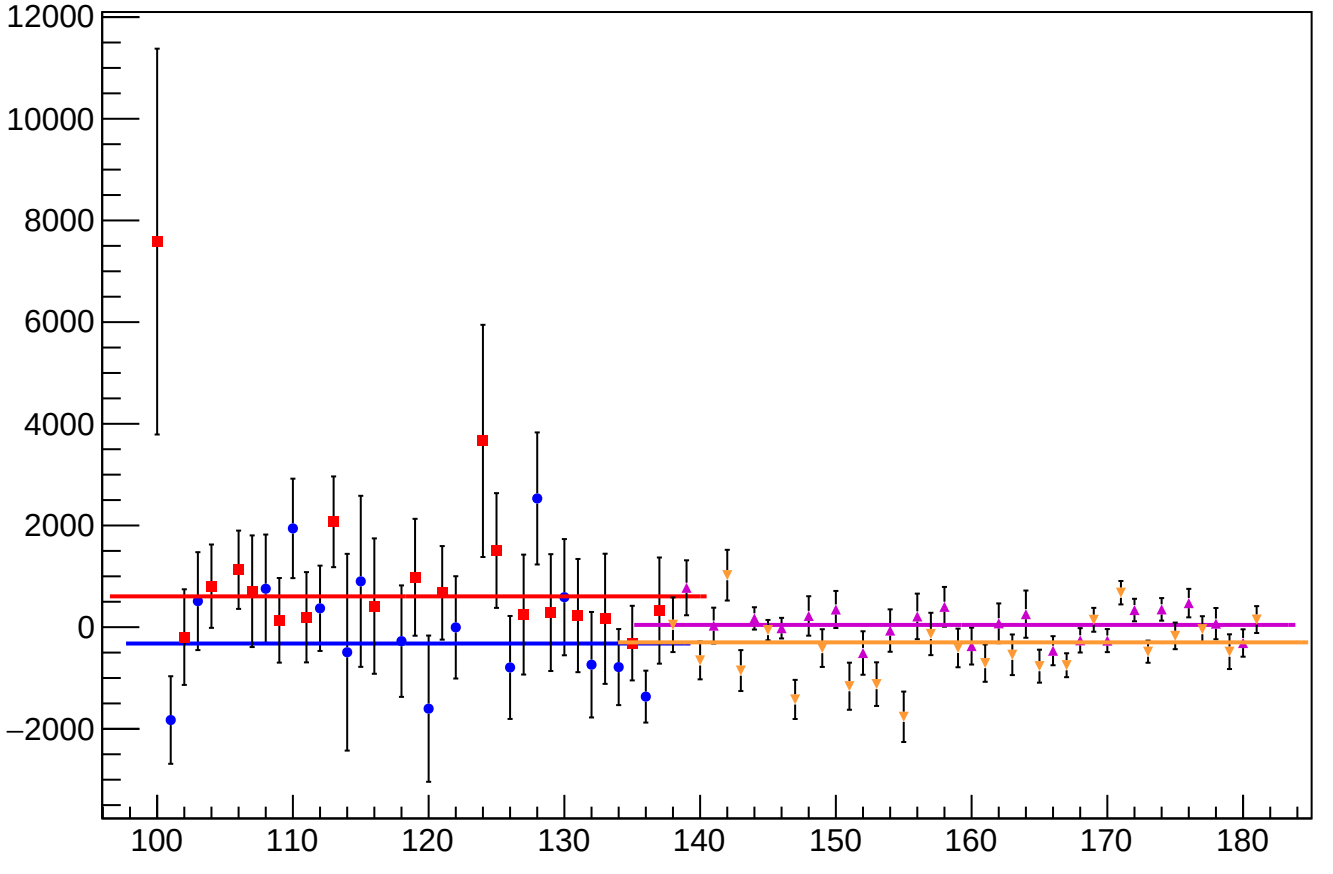
Right: 63.127+/-0.012 $\chi^2$/NDF: 1594958.1/34

In: 50.105+/-0.007 $\chi^2$/NDF:2055562.6/36

Out: 50.116+/-0.007 $\chi^2$/NDF:2293495.6/41

All: 50.111+/-0.005 $\chi^2$/NDF: 4349059.4/78

asym_sam_37_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -321.663+/-238.482 $\chi^2$/NDF: 22.7/15

Left Out: -298.773+/-64.708 $\chi^2$/NDF:70.4/22

Right Out: 605.859+/-233.643 $\chi^2$/NDF: 12.5/18

Left In: 44.357+/-64.656 $\chi^2$/NDF:21.8/20

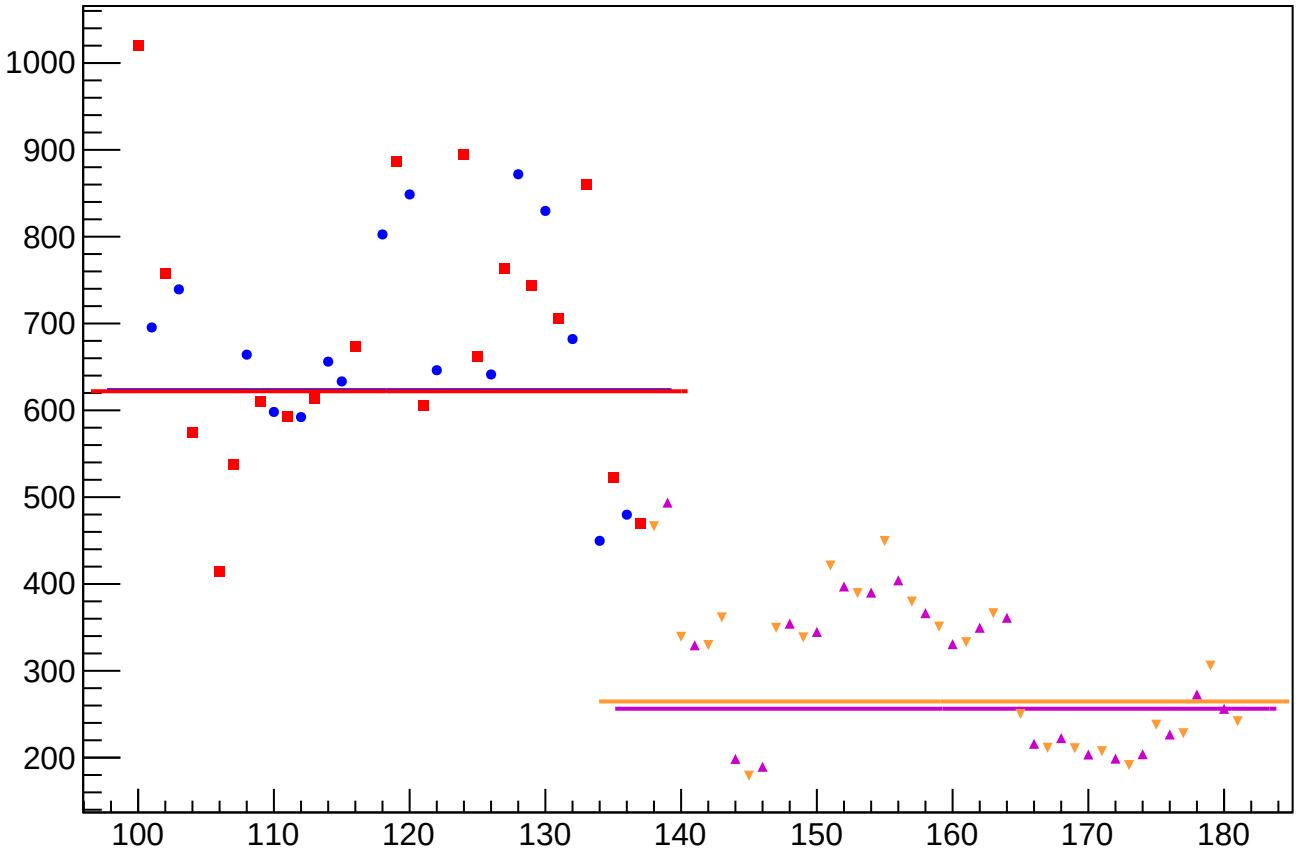
Left: -127.071+/-45.737 $\chi^2$/NDF: 106.2/43

Right: 151.604+/-166.895 $\chi^2$/NDF: 42.9/34

In: 19.295+/-62.403 $\chi^2$/NDF:46.7/36

Out: -234.328+/-62.360 $\chi^2$/NDF:96.8/41

All: -107.604+/-44.111 $\chi^2$/NDF: 151.7/78




Right In: 623.181+/-0.169 $\chi^2$/NDF: 565524.7/15

Left Out: 264.707+/-0.046 $\chi^2$/NDF:2848779.8/22

Right Out: 621.975+/-0.165 $\chi^2$/NDF: 582591.9/18

Left In: 256.332+/-0.046 $\chi^2$/NDF:2633715.3/20

Left: 260.516+/-0.032 $\chi^2$/NDF: 5499258.8/43

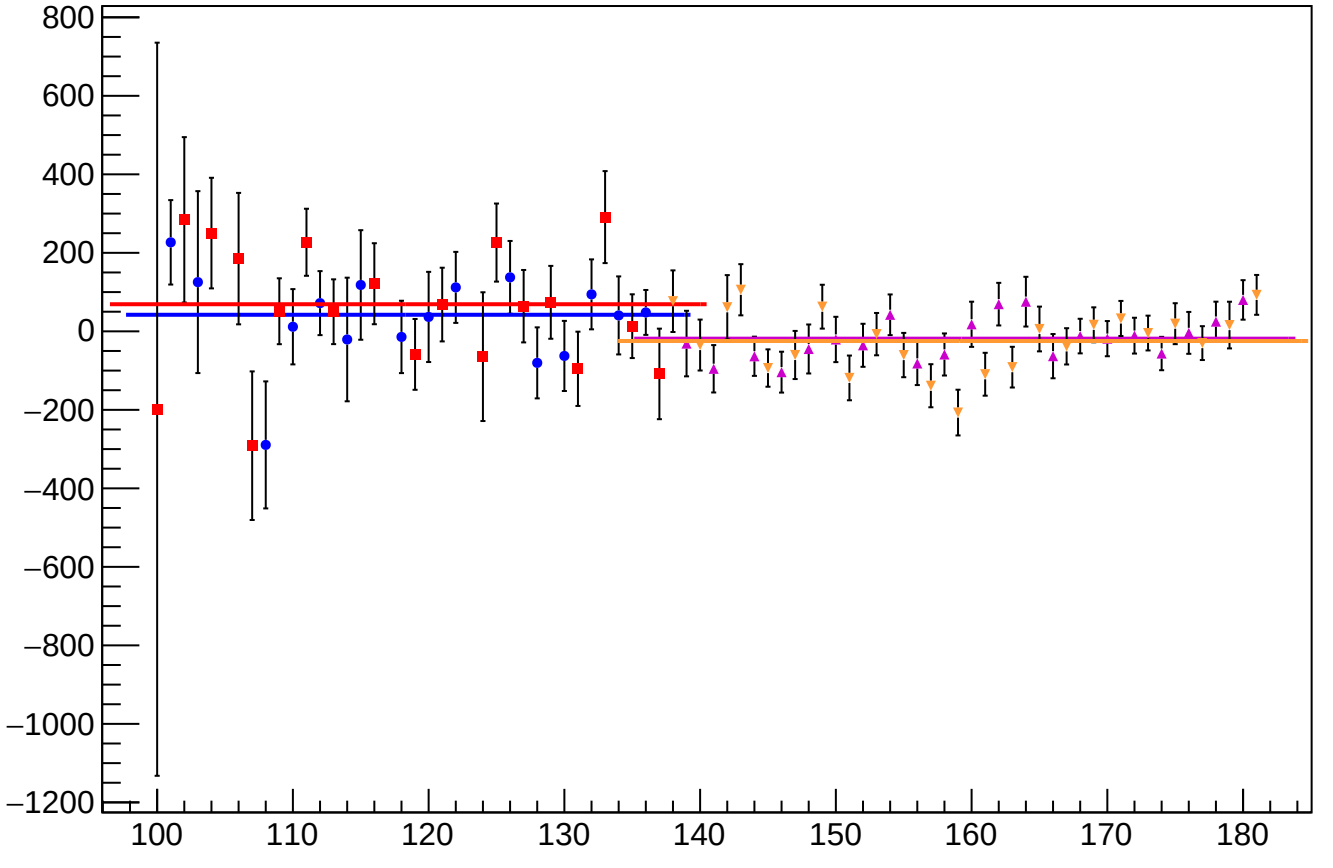
Right: 622.565+/-0.118 $\chi^2$/NDF: 1148142.8/34

In: 281.450+/-0.044 $\chi^2$/NDF:7607725.5/36

Out: 290.158+/-0.044 $\chi^2$/NDF:7774646.9/41

All: 285.807+/-0.031 $\chi^2$/NDF: 15401856.0/78

# cor_asym_sam_37_dd_mean vs Slug, Sign Corrected




Right In: 42.213+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: -24.618+/-11.196 $\chi^2$/NDF:42.7/22

Right Out: 69.068+/-24.420 $\chi^2$/NDF: 25.3/18

Left In: -18.652+/-11.536 $\chi^2$/NDF:20.0/20

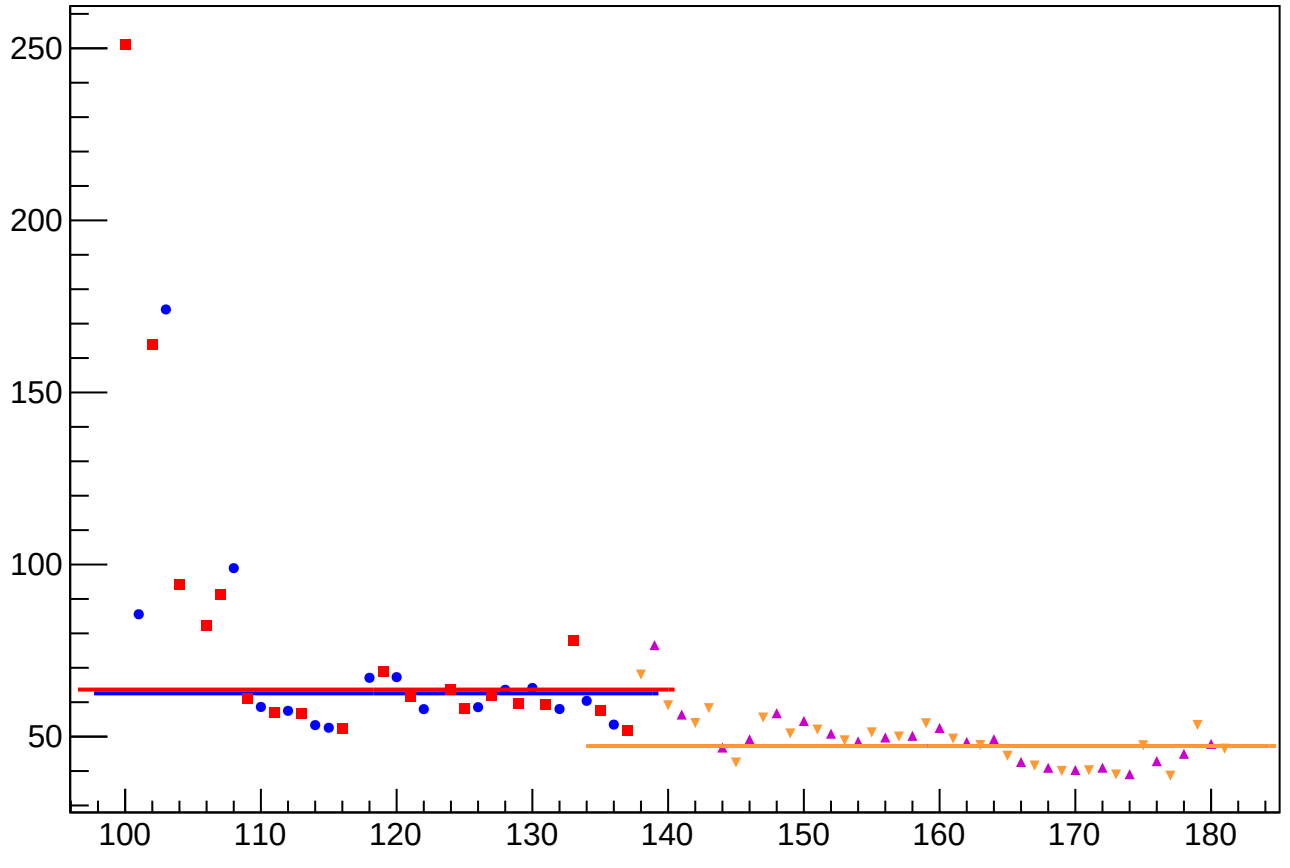
Left: -21.724+/-8.034 $\chi^2$/NDF: 62.9/43

Right: 55.523+/-17.192 $\chi^2$/NDF: 39.4/34

In: -7.387+/-10.414 $\chi^2$/NDF:38.7/36

Out: -8.346+/-10.177 $\chi^2$/NDF:80.2/41

All: -7.878+/-7.279 $\chi^2$/NDF: 118.9/78




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758605.6/15

Left Out: 47.261+/-0.008 $\chi^2$/NDF:710369.4/22

Right Out: 63.675+/-0.017 $\chi^2$/NDF: 831432.5/18

Left In: 47.275+/-0.008 $\chi^2$/NDF:646680.3/20

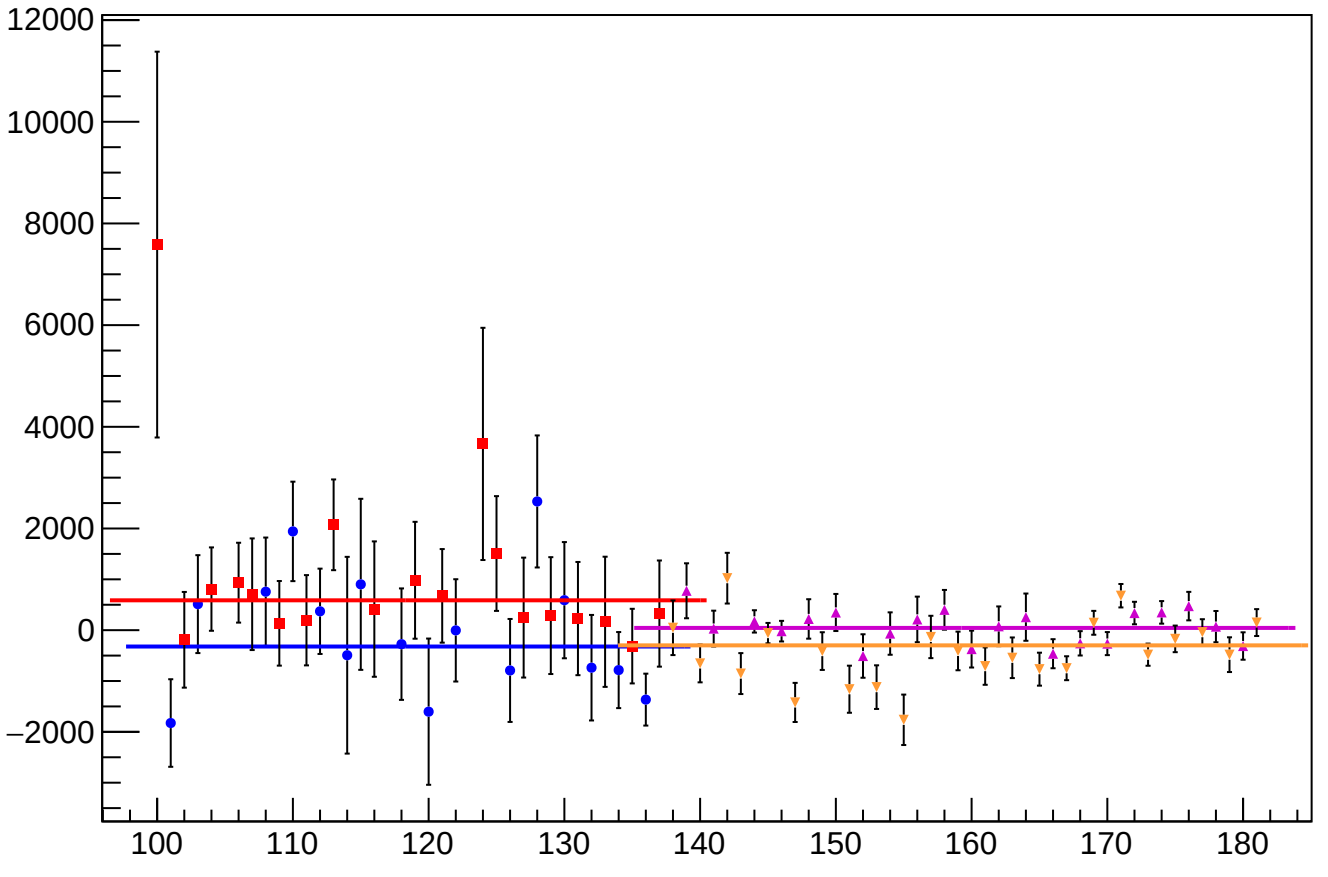
Left: 47.268+/-0.006 $\chi^2$/NDF: 1357051.3/43

Right: 63.115+/-0.012 $\chi^2$/NDF: 1592120.8/34

In: 50.105+/-0.007 $\chi^2$/NDF:2055564.3/36

Out: 50.112+/-0.007 $\chi^2$/NDF:2288474.8/41

All: 50.109+/-0.005 $\chi^2$/NDF: 4344039.6/78




Right In: -321.660+/-238.484 $\chi^2$/NDF: 22.7/15

Left Out: -298.769+/-64.708 $\chi^2$/NDF:70.4/22

Right Out: 587.224+/-234.080 $\chi^2$/NDF: 12.2/18

Left In: 44.359+/-64.656 $\chi^2$/NDF:21.8/20

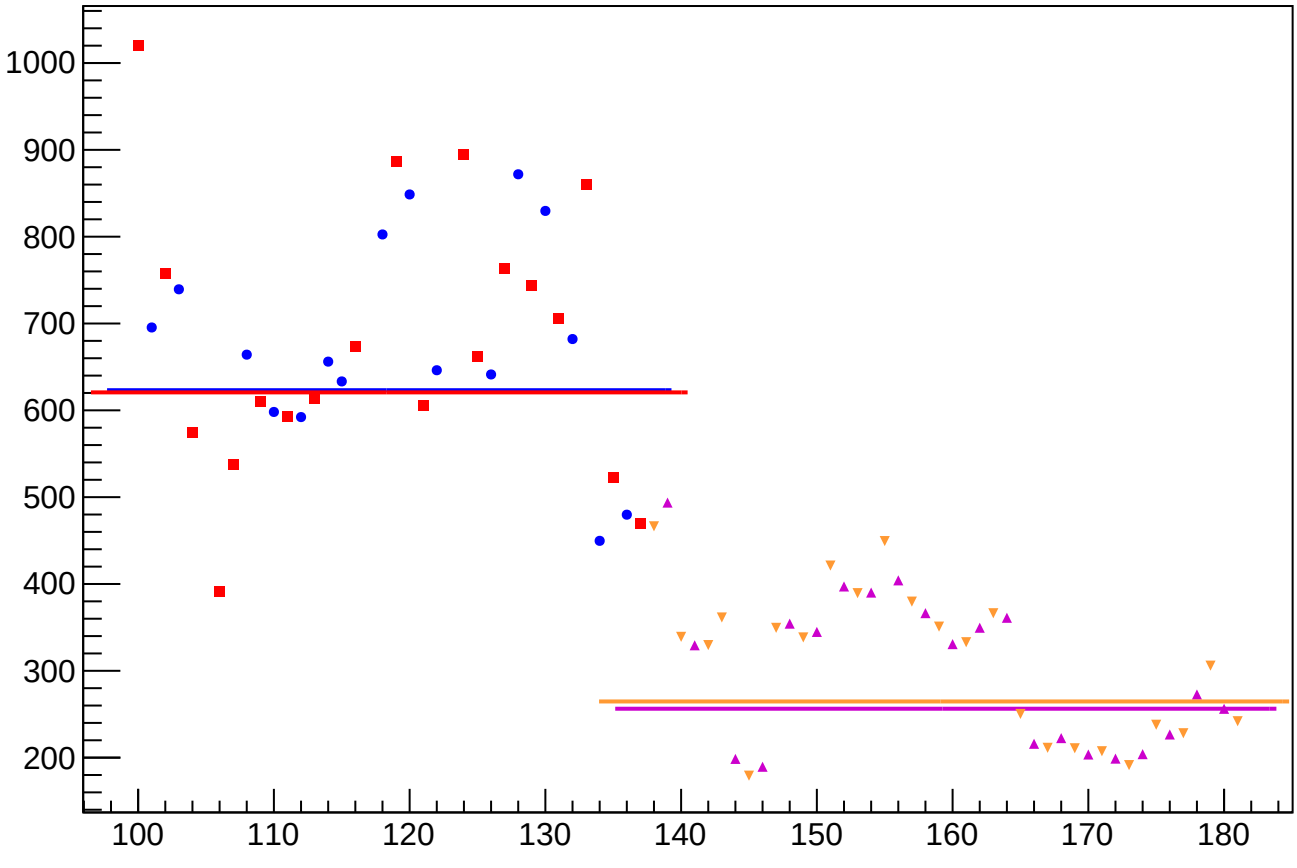
Left: -127.068+/-45.737 $\chi^2$/NDF: 106.2/43

Right: 141.251+/-167.055 $\chi^2$/NDF: 42.3/34

In: 19.298+/-62.403 $\chi^2$/NDF:46.7/36

Out: -235.871+/-62.369 $\chi^2$/NDF:95.9/41

All: -108.358+/-44.114 $\chi^2$/NDF: 150.9/78




Right In: 623.184+/-0.169 $\chi^2$/NDF: 565557.0/15

Left Out: 264.706+/-0.046 $\chi^2$/NDF:2848786.3/22

Right Out: 620.673+/-0.166 $\chi^2$/NDF: 610523.8/18

Left In: 256.332+/-0.046 $\chi^2$/NDF:2633710.3/20

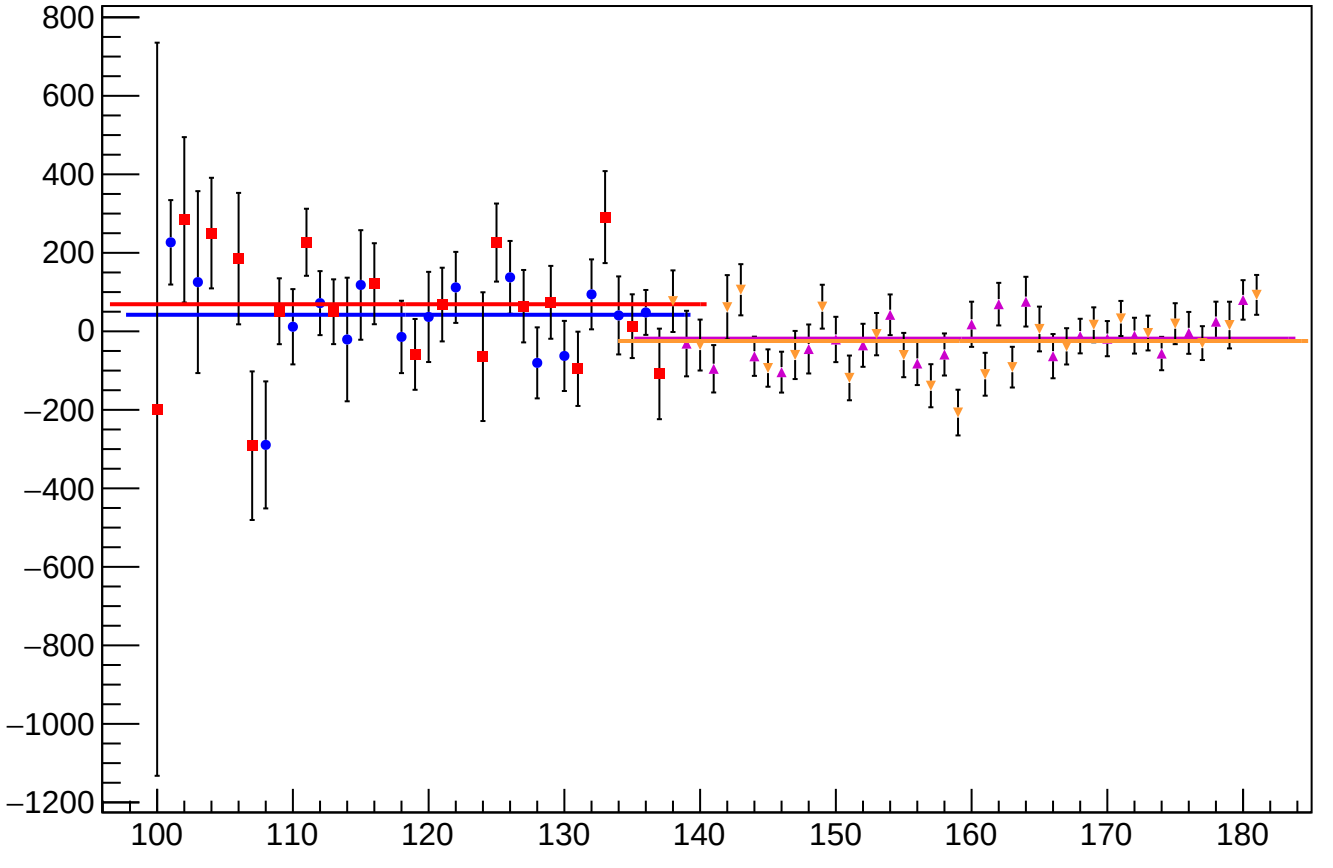
Left: 260.516+/-0.032 $\chi^2$/NDF: 5499259.3/43

Right: 621.905+/-0.118 $\chi^2$/NDF: 1176193.8/34

In: 281.450+/-0.044 $\chi^2$/NDF:7607769.4/36

Out: 289.977+/-0.044 $\chi^2$/NDF:7756059.2/41

All: 285.716+/-0.031 $\chi^2$/NDF: 15382509.3/78




Right In: 42.213+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: -24.618+/-11.196 $\chi^2$/NDF:42.7/22

Right Out: 69.068+/-24.420 $\chi^2$/NDF: 25.3/18

Left In: -18.652+/-11.536 $\chi^2$/NDF:20.0/20

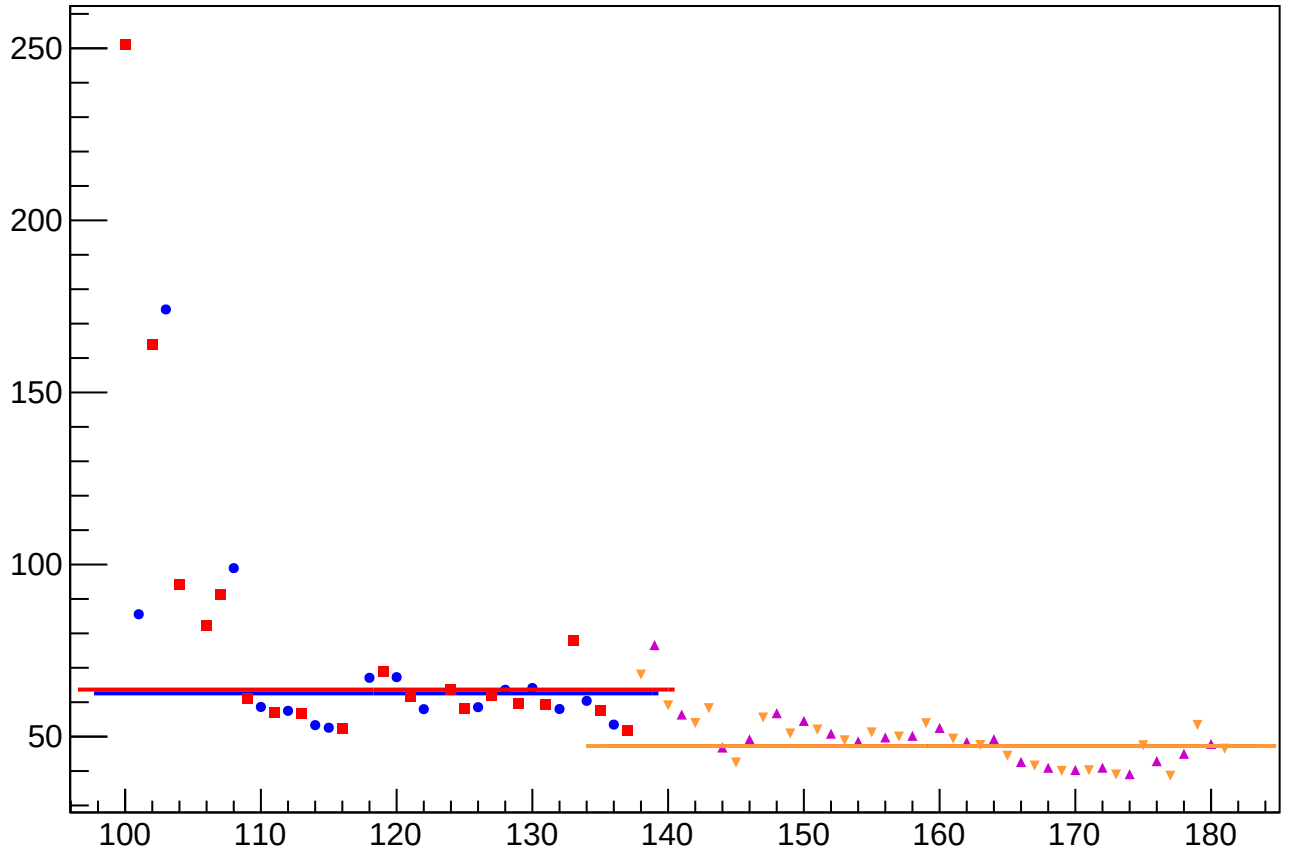
Left: -21.724+/-8.034 $\chi^2$/NDF: 62.9/43

Right: 55.523+/-17.192 $\chi^2$/NDF: 39.4/34

In: -7.387+/-10.414 $\chi^2$/NDF:38.7/36

Out: -8.346+/-10.177 $\chi^2$/NDF:80.2/41

All: -7.878+/-7.279 $\chi^2$/NDF: 118.9/78




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758605.6/15

Left Out: 47.261+/-0.008 $\chi^2$/NDF:710369.4/22

Right Out: 63.675+/-0.017 $\chi^2$/NDF: 831432.5/18

Left In: 47.275+/-0.008 $\chi^2$/NDF:646680.3/20

Left: 47.268+/-0.006 $\chi^2$/NDF: 1357051.3/43

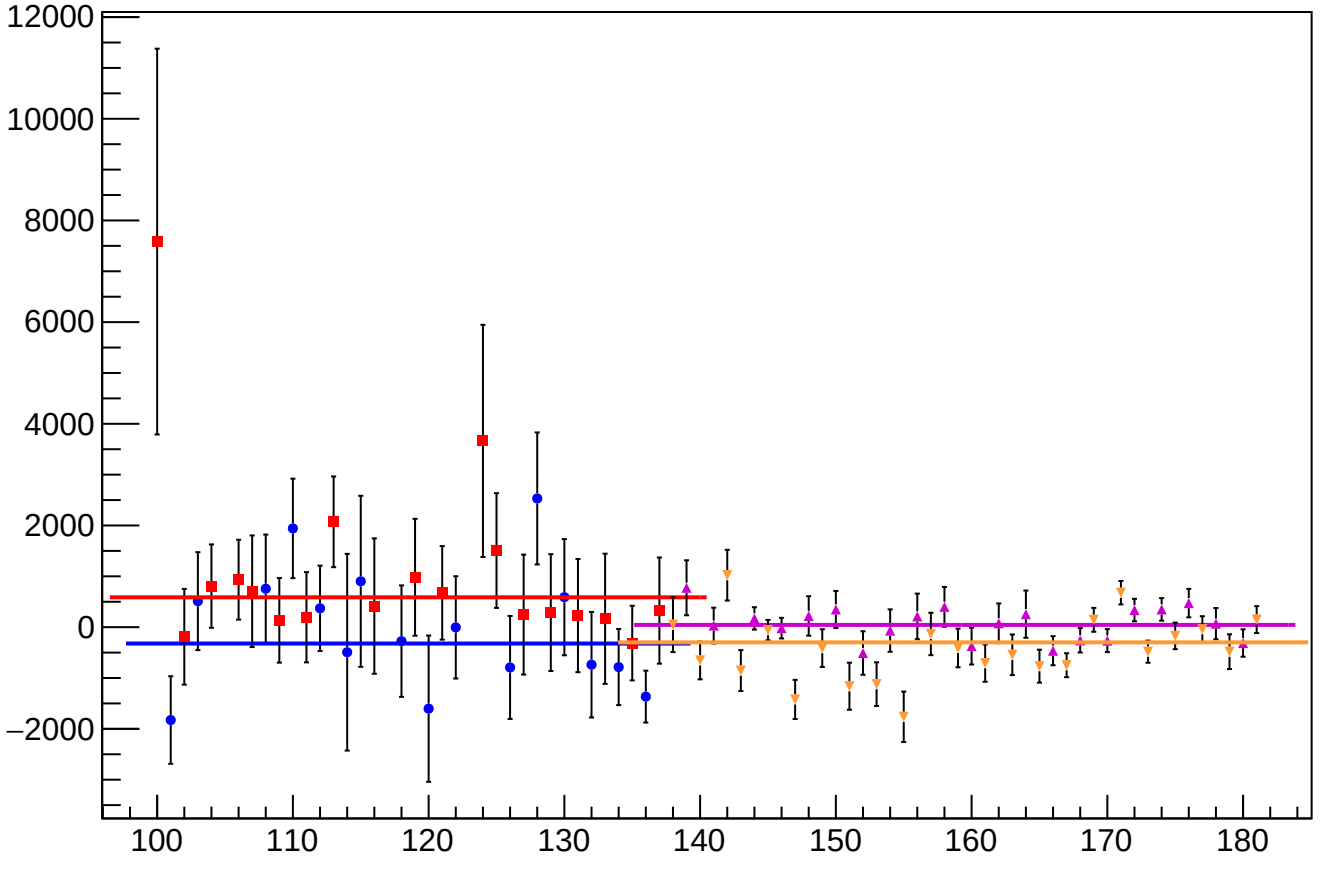
Right: 63.115+/-0.012 $\chi^2$/NDF: 1592120.8/34

In: 50.105+/-0.007 $\chi^2$/NDF:2055564.3/36

Out: 50.112+/-0.007 $\chi^2$/NDF:2288474.8/41

All: 50.109+/-0.005 $\chi^2$/NDF: 4344039.6/78

asym_sam_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -321.660+/-238.484 $\chi^2$/NDF: 22.7/15

Left Out: -298.769+/-64.708 $\chi^2$/NDF:70.4/22

Right Out: 587.224+/-234.080 $\chi^2$/NDF: 12.2/18

Left In: 44.359+/-64.656 $\chi^2$/NDF:21.8/20

Left: -127.068+/-45.737 $\chi^2$/NDF: 106.2/43

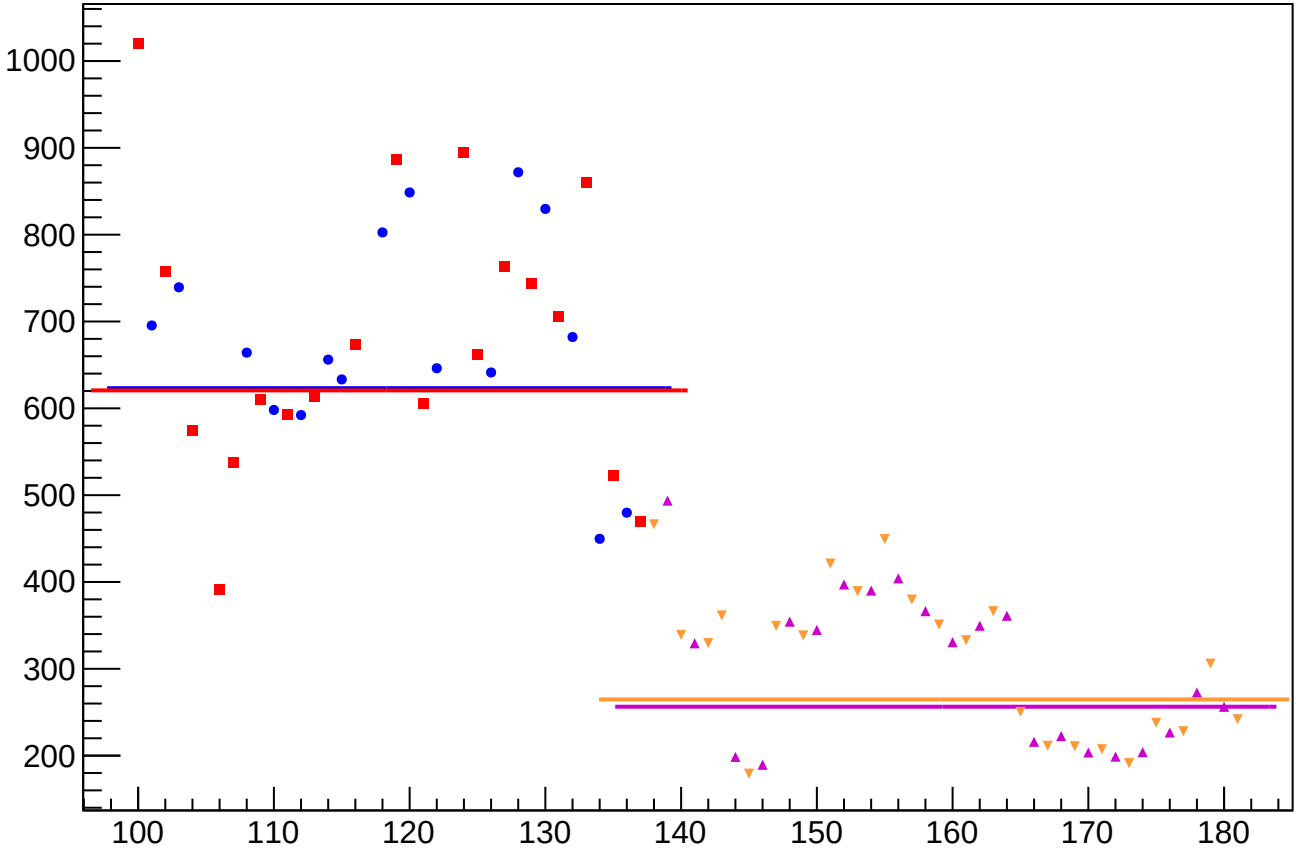
Right: 141.251+/-167.055 $\chi^2$/NDF: 42.3/34

In: 19.298+/-62.403 $\chi^2$/NDF:46.7/36

Out: -235.871+/-62.369 $\chi^2$/NDF:95.9/41

All: -108.358+/-44.114 $\chi^2$/NDF: 150.9/78

asym_sam_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 623.184+/-0.169 $\chi^2$/NDF: 565557.0/15

Left Out: 264.706+/-0.046 $\chi^2$/NDF:2848786.3/22

Right Out: 620.673+/-0.166 $\chi^2$/NDF: 610523.8/18

Left In: 256.332+/-0.046 $\chi^2$/NDF:2633710.3/20

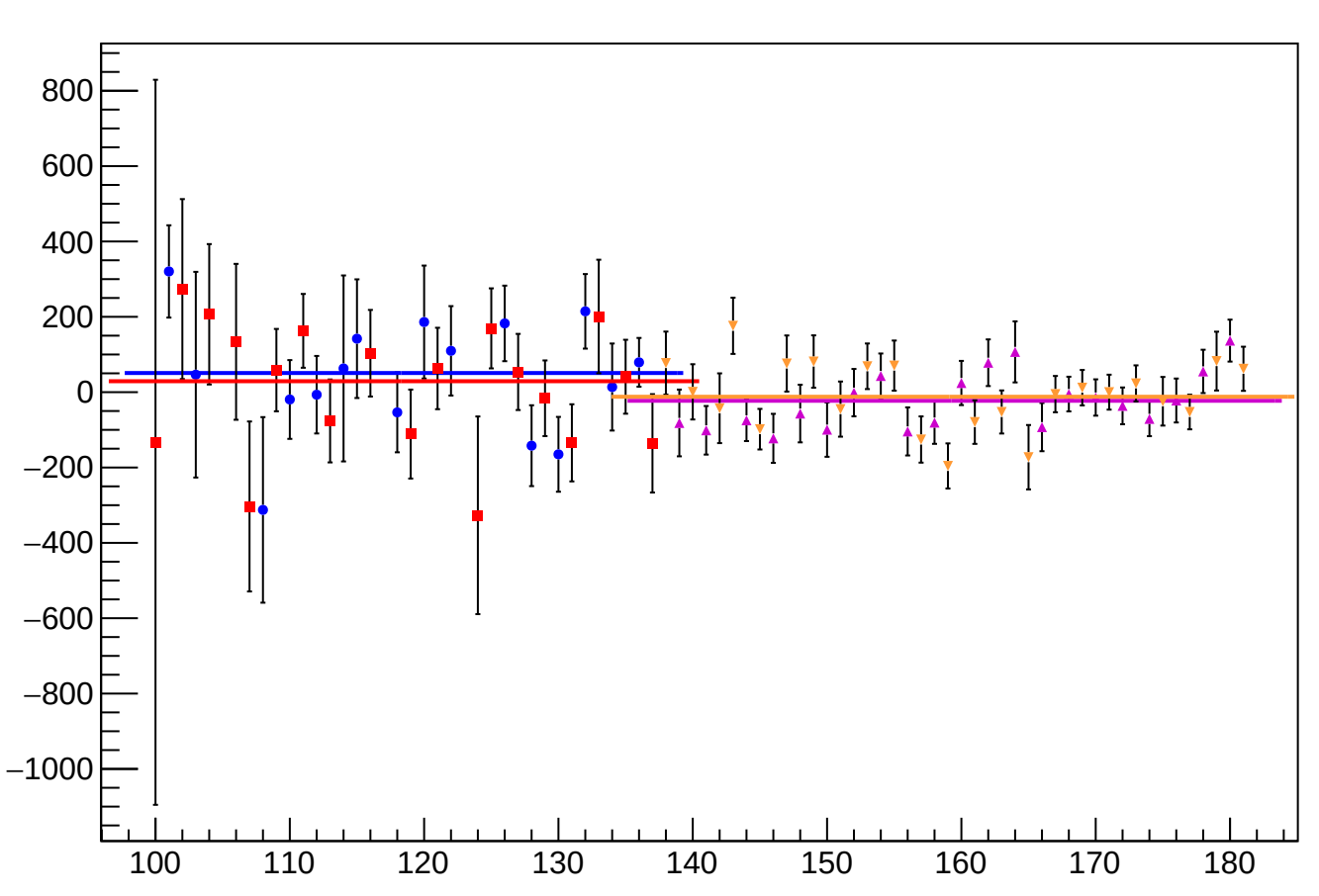
Left: 260.516+/-0.032 $\chi^2$/NDF: 5499259.3/43

Right: 621.905+/-0.118 $\chi^2$/NDF: 1176193.8/34

In: 281.450+/-0.044 $\chi^2$/NDF:7607769.4/36

Out: 289.977+/-0.044 $\chi^2$/NDF:7756059.2/41

All: 285.716+/-0.031 $\chi^2$/NDF: 15382509.3/78




Right In: 50.840+/-28.316 $\chi^2$/NDF: 22.9/15

Left Out: -12.162+/-12.616 $\chi^2$/NDF:39.9/22

Right Out: 29.040+/-28.910 $\chi^2$/NDF: 18.5/18

Left In: -22.832+/-12.849 $\chi^2$/NDF:29.0/20

Left: -17.400+/-9.002 $\chi^2$/NDF: 69.3/43

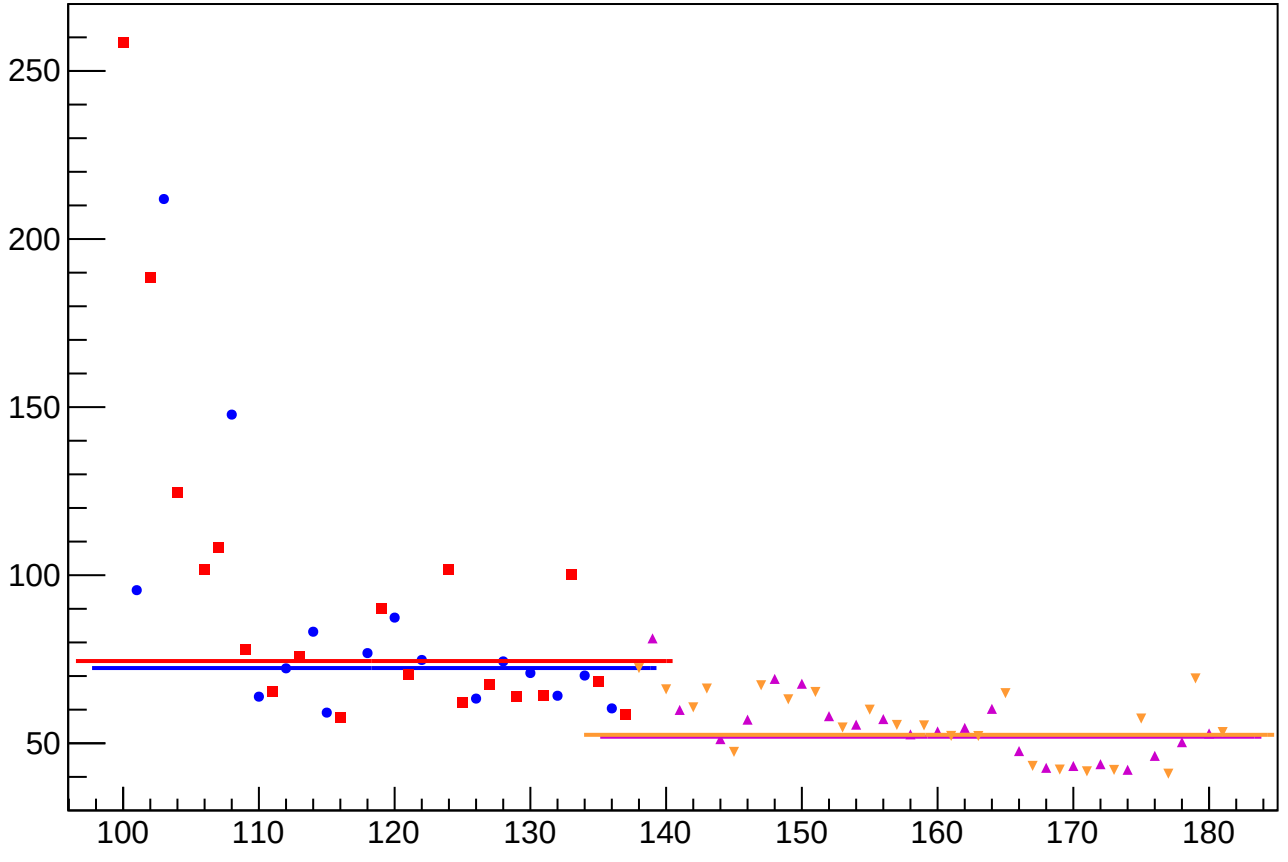
Right: 40.166+/-20.229 $\chi^2$/NDF: 41.7/34

In: -10.253+/-11.701 $\chi^2$/NDF:57.5/36

Out: -5.570+/-11.563 $\chi^2$/NDF:60.2/41

All: -7.884+/-8.225 $\chi^2$/NDF: 117.7/78

# dit_asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 72.378+/-0.020 $\chi^2$/NDF: 938175.3/15

Left Out: 52.518+/-0.009 $\chi^2$/NDF:1152031.0/22

Right Out: 74.463+/-0.020 $\chi^2$/NDF: 1052296.6/18

Left In: 51.947+/-0.009 $\chi^2$/NDF:848489.3/20

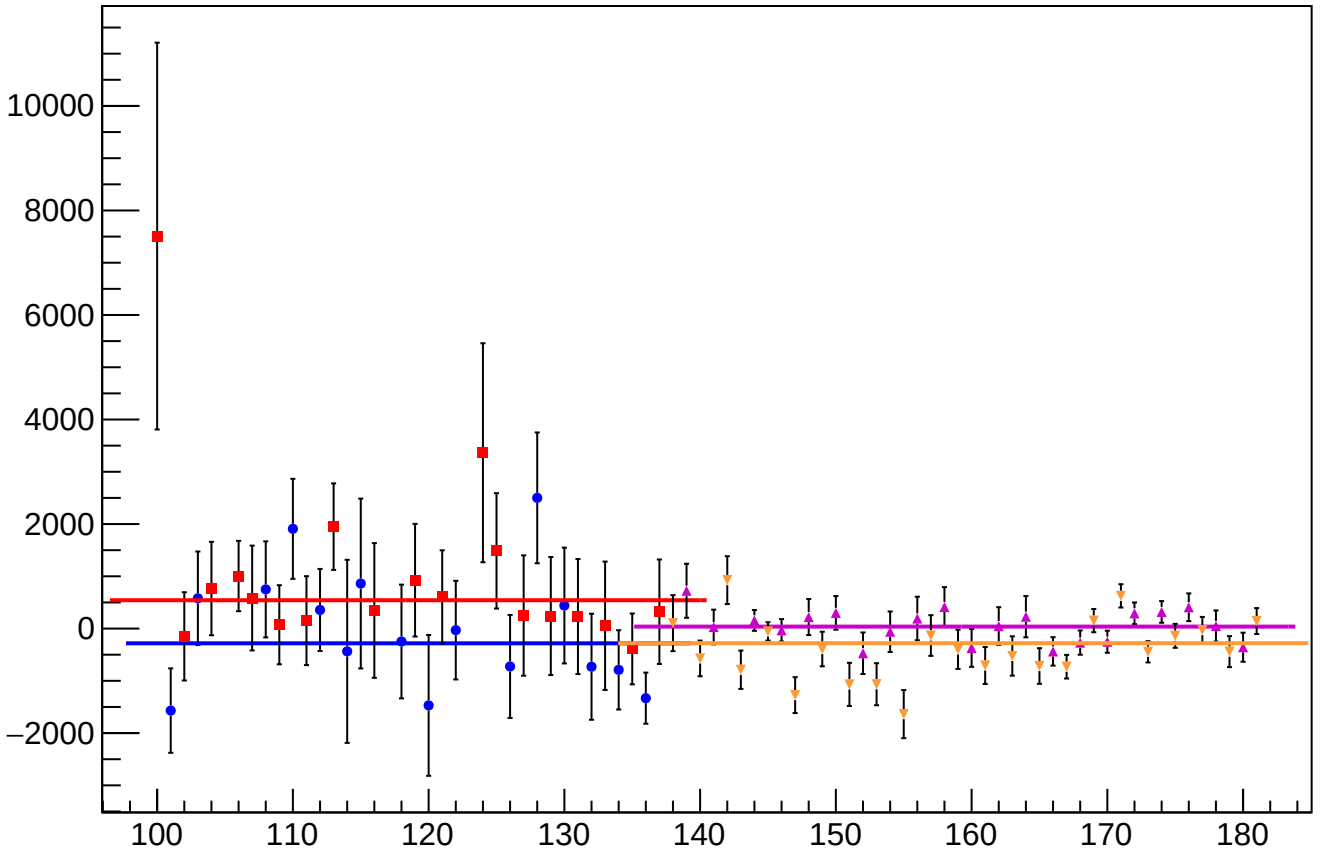
Left: 52.237+/-0.006 $\chi^2$/NDF: 2002530.9/43

Right: 73.399+/-0.014 $\chi^2$/NDF: 1995784.4/34

In: 55.435+/-0.008 $\chi^2$/NDF:2650091.1/36

Out: 56.029+/-0.008 $\chi^2$/NDF:3172449.0/41

All: 55.735+/-0.006 $\chi^2$/NDF: 5825142.2/78




Right In: -282.039+/-227.789 $\chi^2$/NDF: 22.8/15

Left Out: -279.984+/-60.278 $\chi^2$/NDF:69.6/22

Right Out: 542.028+/-220.904 $\chi^2$/NDF: 13.3/18

Left In: 37.520+/-61.476 $\chi^2$/NDF:21.4/20

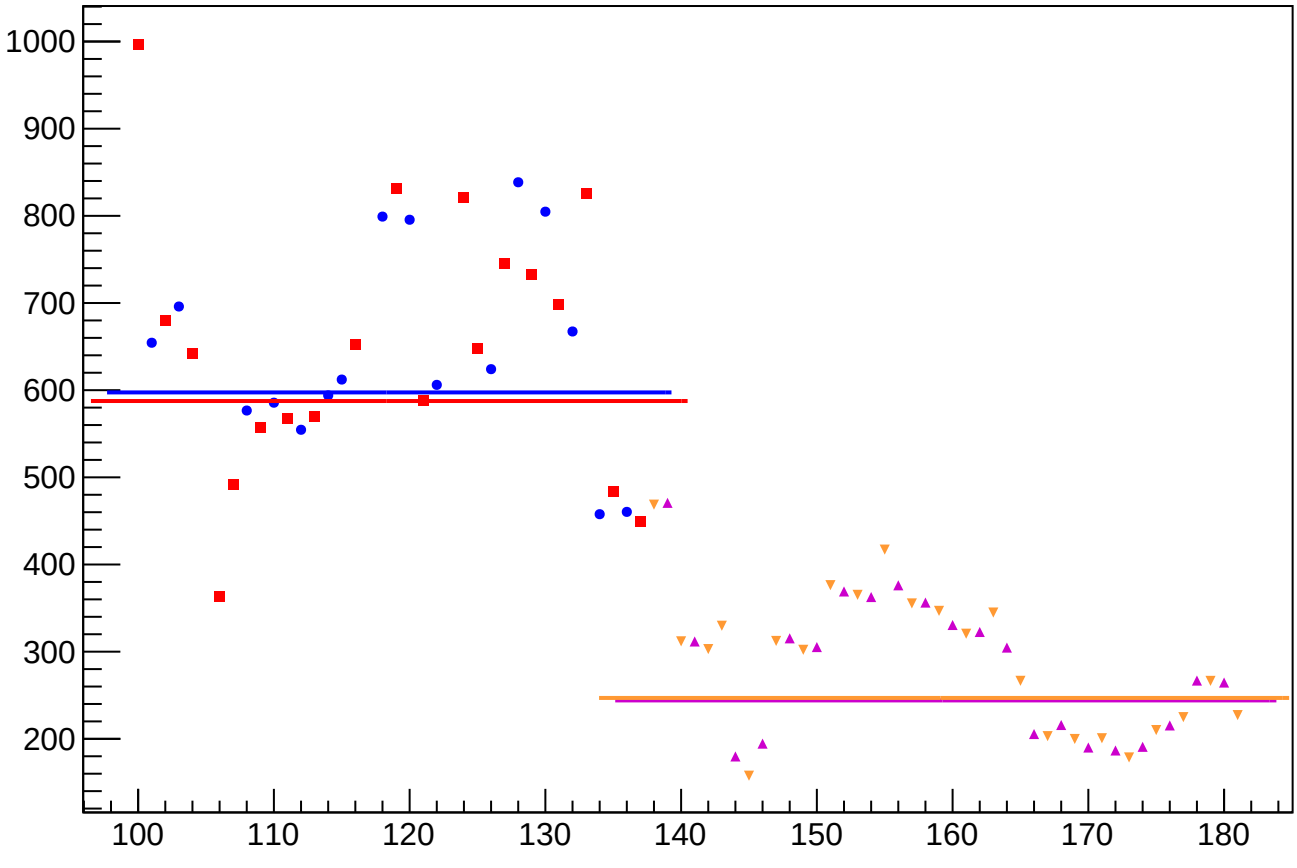
Left: -124.356+/-43.040 $\chi^2$/NDF: 104.7/43

Right: 142.636+/-158.581 $\chi^2$/NDF: 42.8/34

In: 15.825+/-59.353 $\chi^2$/NDF:46.0/36

Out: -223.020+/-58.152 $\chi^2$/NDF:95.8/41

All: -106.038+/-41.538 $\chi^2$/NDF: 150.1/78




Right In: 597.438+/-0.161 $\chi^2$/NDF: 533791.9/15

Left Out: 246.918+/-0.043 $\chi^2$/NDF:2925629.4/22

Right Out: 587.565+/-0.156 $\chi^2$/NDF: 689035.8/18

Left In: 244.084+/-0.043 $\chi^2$/NDF:2489684.0/20

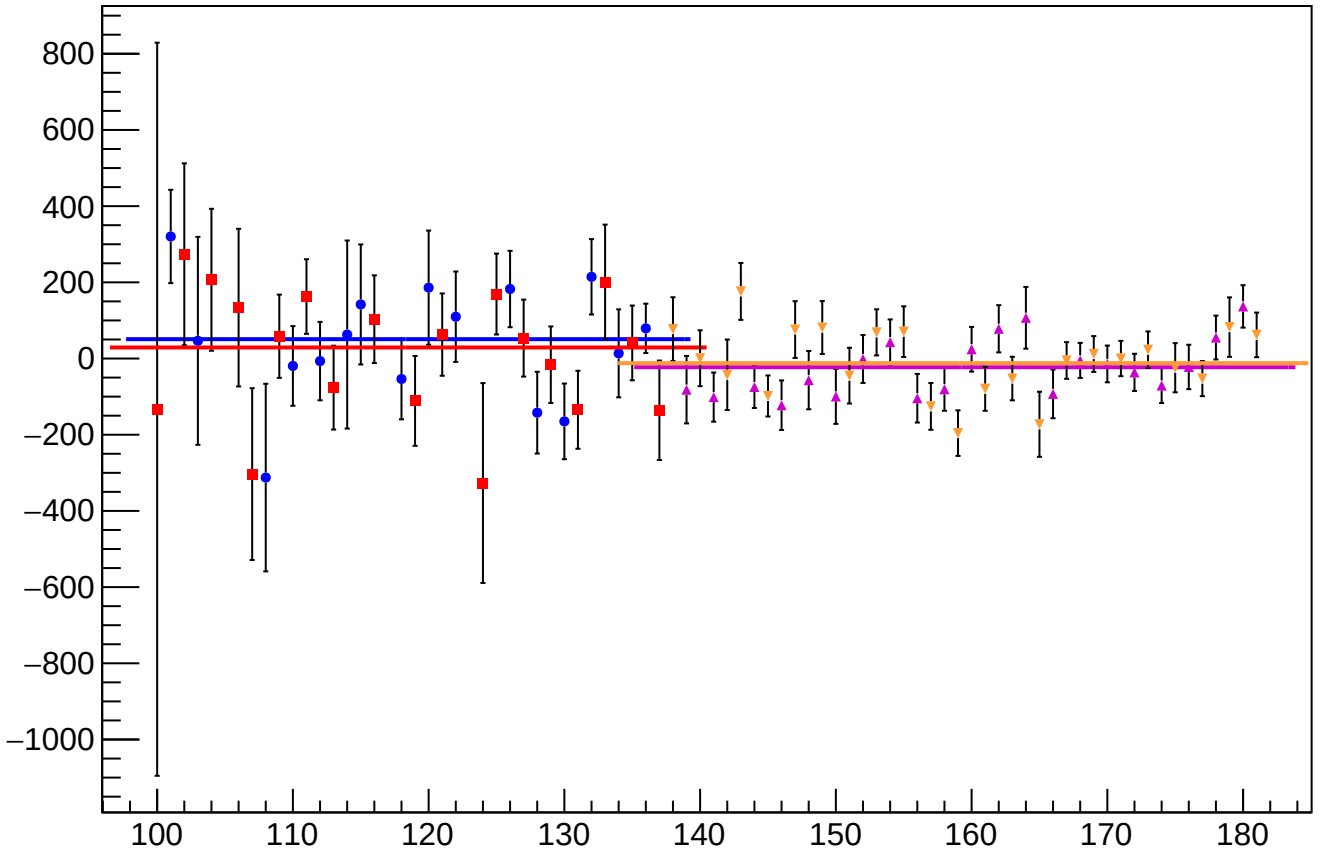
Left: 245.529+/-0.030 $\chi^2$/NDF: 5417480.3/43

Right: 592.350+/-0.112 $\chi^2$/NDF: 1224764.0/34

In: 268.074+/-0.042 $\chi^2$/NDF:7509386.6/36

Out: 270.524+/-0.041 $\chi^2$/NDF:8040983.4/41

All: 269.324+/-0.029 $\chi^2$/NDF: 15552109.5/78




Right In: 50.840+/-28.316 $\chi^2$/NDF: 22.9/15

Left Out: -12.161+/-12.616 $\chi^2$/NDF:39.9/22

Right Out: 29.038+/-28.910 $\chi^2$/NDF: 18.5/18

Left In: -22.832+/-12.849 $\chi^2$/NDF:29.0/20

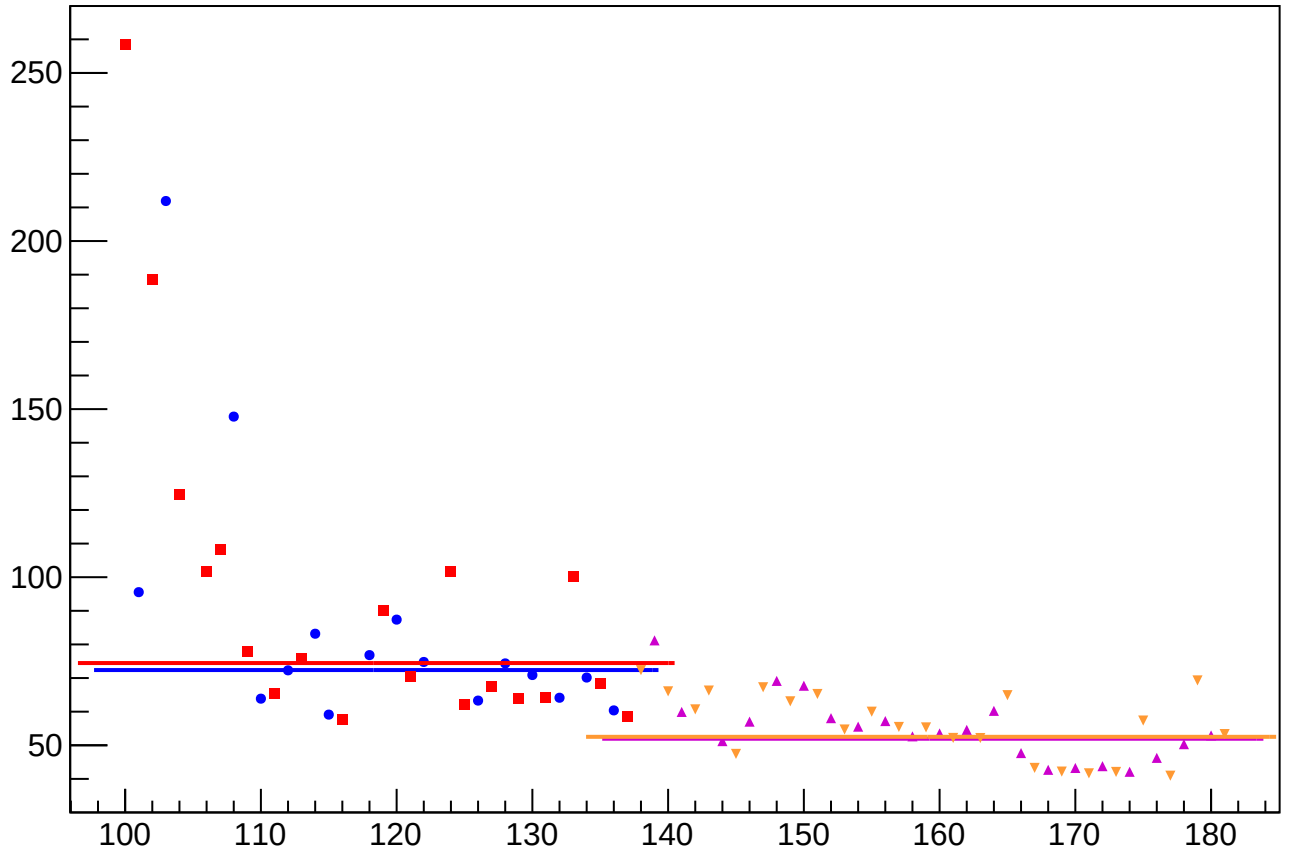
Left: -17.399+/-9.002 $\chi^2$/NDF: 69.3/43

Right: 40.165+/-20.229 $\chi^2$/NDF: 41.7/34

In: -10.253+/-11.701 $\chi^2$/NDF:57.5/36

Out: -5.570+/-11.563 $\chi^2$/NDF:60.2/41

All: -7.884+/-8.225 $\chi^2$/NDF: 117.7/78




Right In: 72.378+/-0.020 $\chi^2$/NDF: 938180.0/15

Left Out: 52.518+/-0.009 $\chi^2$/NDF:1152059.3/22

Right Out: 74.463+/-0.020 $\chi^2$/NDF: 1052290.0/18

Left In: 51.947+/-0.009 $\chi^2$/NDF:848499.0/20

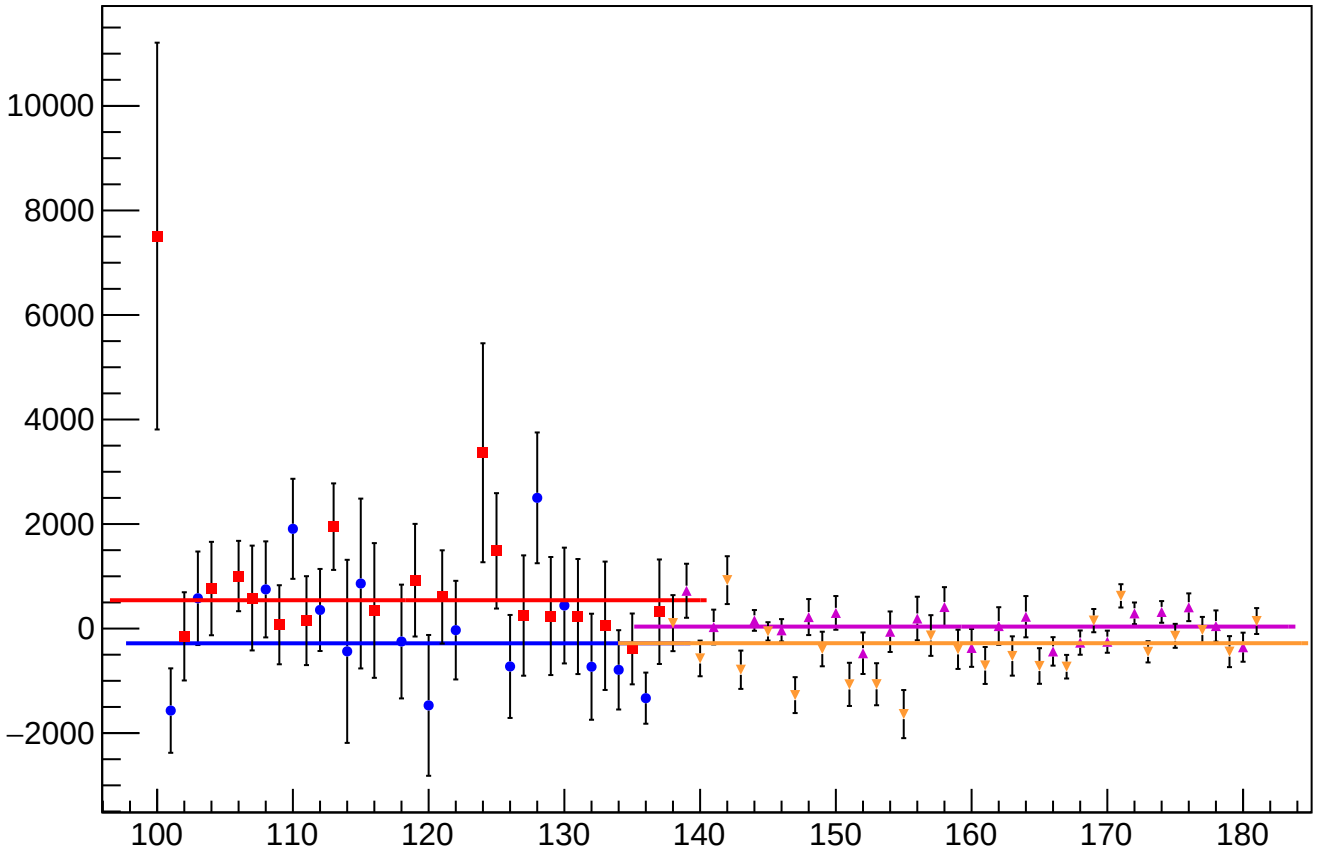
Left: 52.238+/-0.006 $\chi^2$/NDF: 2002569.1/43

Right: 73.399+/-0.014 $\chi^2$/NDF: 1995782.9/34

In: 55.435+/-0.008 $\chi^2$/NDF:2650090.6/36

Out: 56.029+/-0.008 $\chi^2$/NDF:3172459.8/41

All: 55.736+/-0.006 $\chi^2$/NDF: 5825152.5/78




Right In: -282.038+/-227.789 $\chi^2$/NDF: 22.8/15

Left Out: -279.984+/-60.278 $\chi^2$/NDF:69.6/22

Right Out: 542.028+/-220.904 $\chi^2$/NDF: 13.3/18

Left In: 37.520+/-61.476 $\chi^2$/NDF:21.4/20

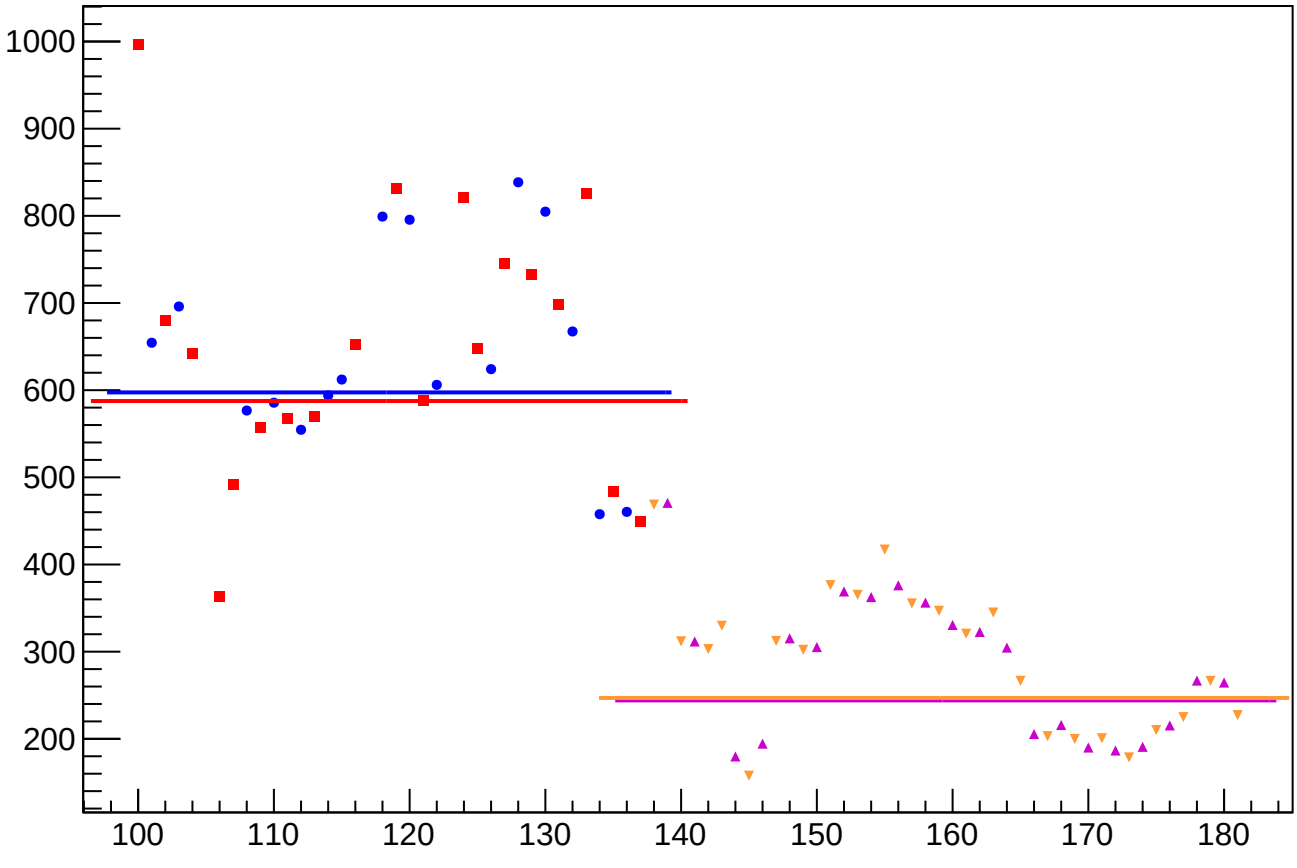
Left: -124.356+/-43.040 $\chi^2$/NDF: 104.7/43

Right: 142.637+/-158.581 $\chi^2$/NDF: 42.8/34

In: 15.825+/-59.353 $\chi^2$/NDF:46.0/36

Out: -223.020+/-58.152 $\chi^2$/NDF:95.8/41

All: -106.038+/-41.538 $\chi^2$/NDF: 150.1/78




Right In: 597.439+/-0.161 $\chi^2$/NDF: 533790.1/15

Left Out: 246.918+/-0.043 $\chi^2$/NDF:2925617.8/22

Right Out: 587.565+/-0.156 $\chi^2$/NDF: 689033.6/18

Left In: 244.084+/-0.043 $\chi^2$/NDF:2489677.5/20

Left: 245.529+/-0.030 $\chi^2$/NDF: 5417462.4/43

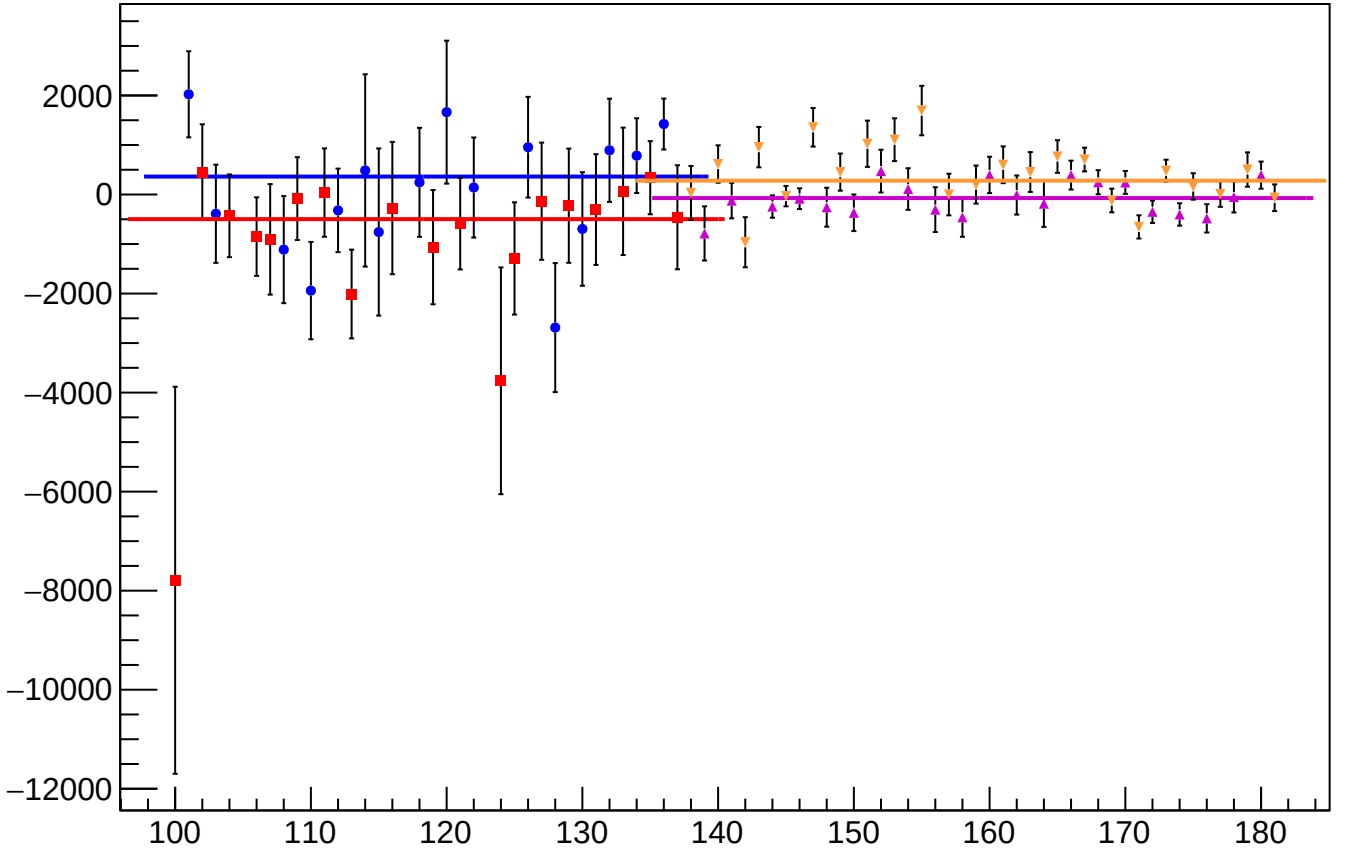
Right: 592.350+/-0.112 $\chi^2$/NDF: 1224760.1/34

In: 268.073+/-0.042 $\chi^2$/NDF:7509388.6/36

Out: 270.524+/-0.041 $\chi^2$/NDF:8040969.2/41

All: 269.324+/-0.029 $\chi^2$/NDF: 15552097.4/78

# asym_sam_37_dd_mean vs Slug, Sign Corrected




Right In: 362.384+/-240.303 $\chi^2$/NDF: 25.1/15

Left Out: 279.567+/-65.811 $\chi^2$/NDF:63.8/22

Right Out: -496.639+/-236.029 $\chi^2$/NDF: 12.7/18

Left In: -71.322+/-65.868 $\chi^2$/NDF:22.6/20

Left: 104.276+/-46.556 $\chi^2$/NDF: 100.5/43

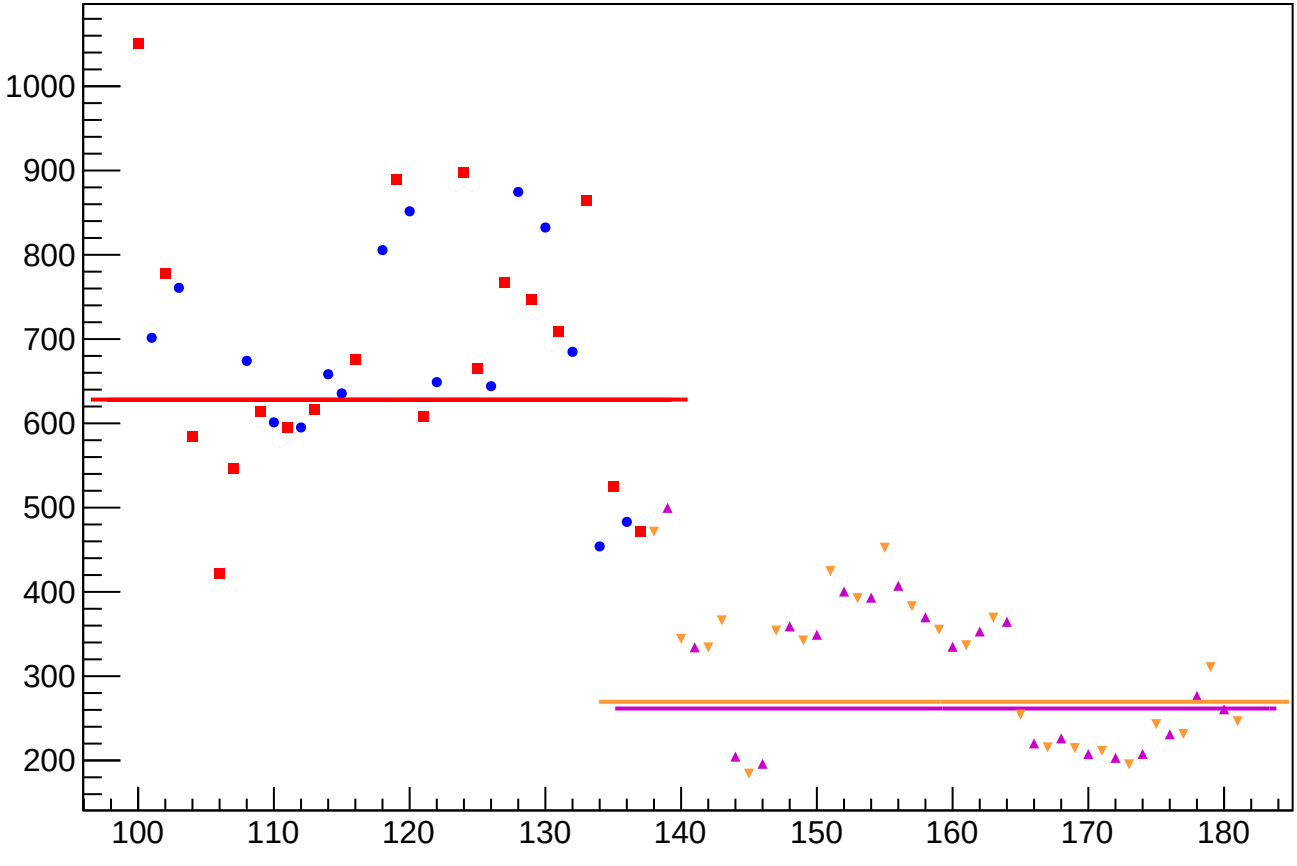
Right: -74.835+/-168.388 $\chi^2$/NDF: 44.3/34

In: -41.013+/-63.525 $\chi^2$/NDF:50.6/36

Out: 223.575+/-63.393 $\chi^2$/NDF:86.5/41

All: 91.557+/-44.872 $\chi^2$/NDF: 145.8/78

# asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 627.896+/-0.170 $\chi^2$/NDF: 566795.7/15

Left Out: 269.604+/-0.047 $\chi^2$/NDF:2758662.5/22

Right Out: 628.250+/-0.167 $\chi^2$/NDF: 570979.3/18

Left In: 261.608+/-0.047 $\chi^2$/NDF:2532264.2/20

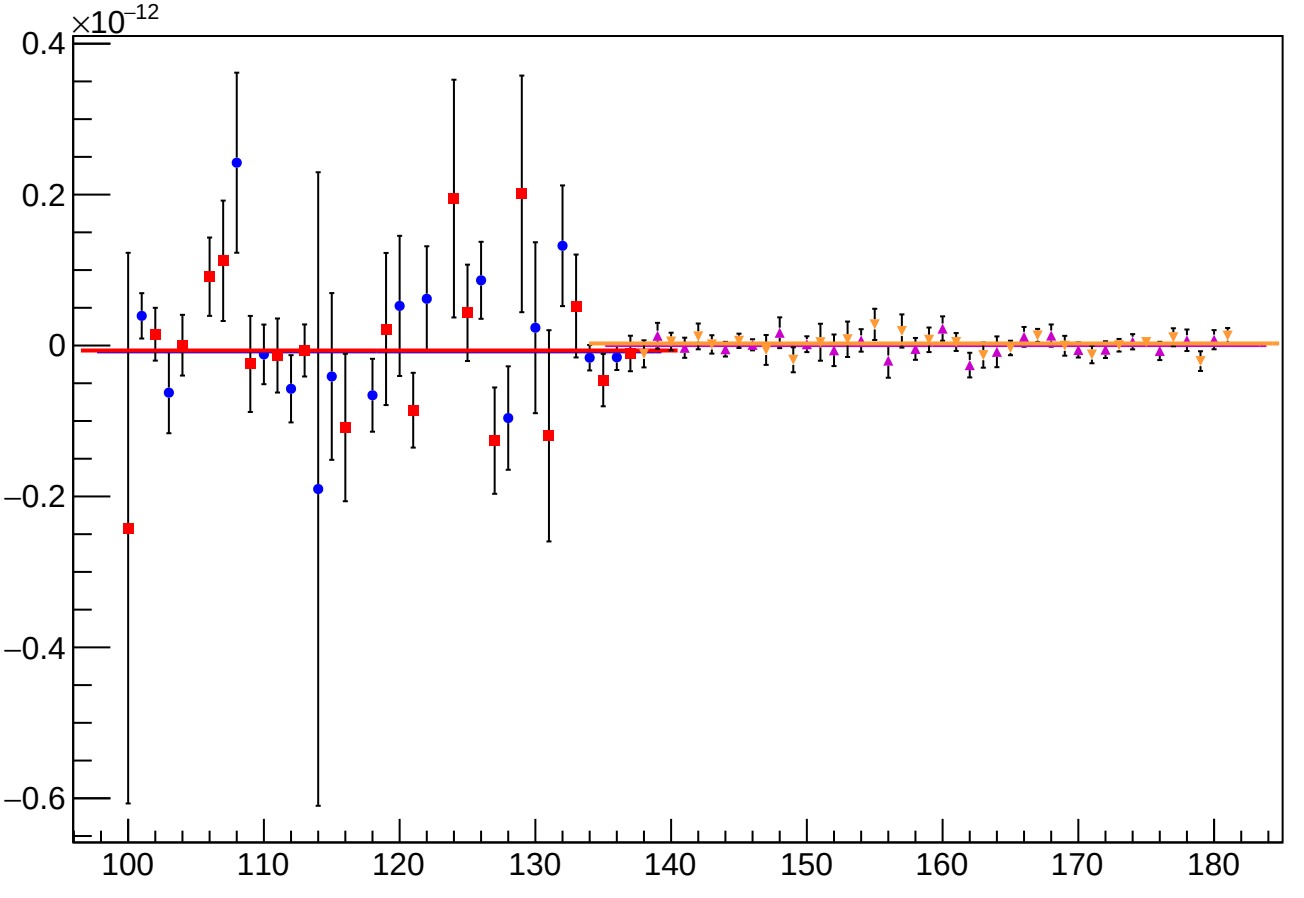
Left: 265.609+/-0.033 $\chi^2$/NDF: 5305673.6/43

Right: 628.076+/-0.119 $\chi^2$/NDF: 1137777.3/34

In: 287.205+/-0.045 $\chi^2$/NDF:7421149.7/36

Out: 295.475+/-0.045 $\chi^2$/NDF:7614312.7/41

All: 291.349+/-0.032 $\chi^2$/NDF: 15052442.5/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:10.7/20

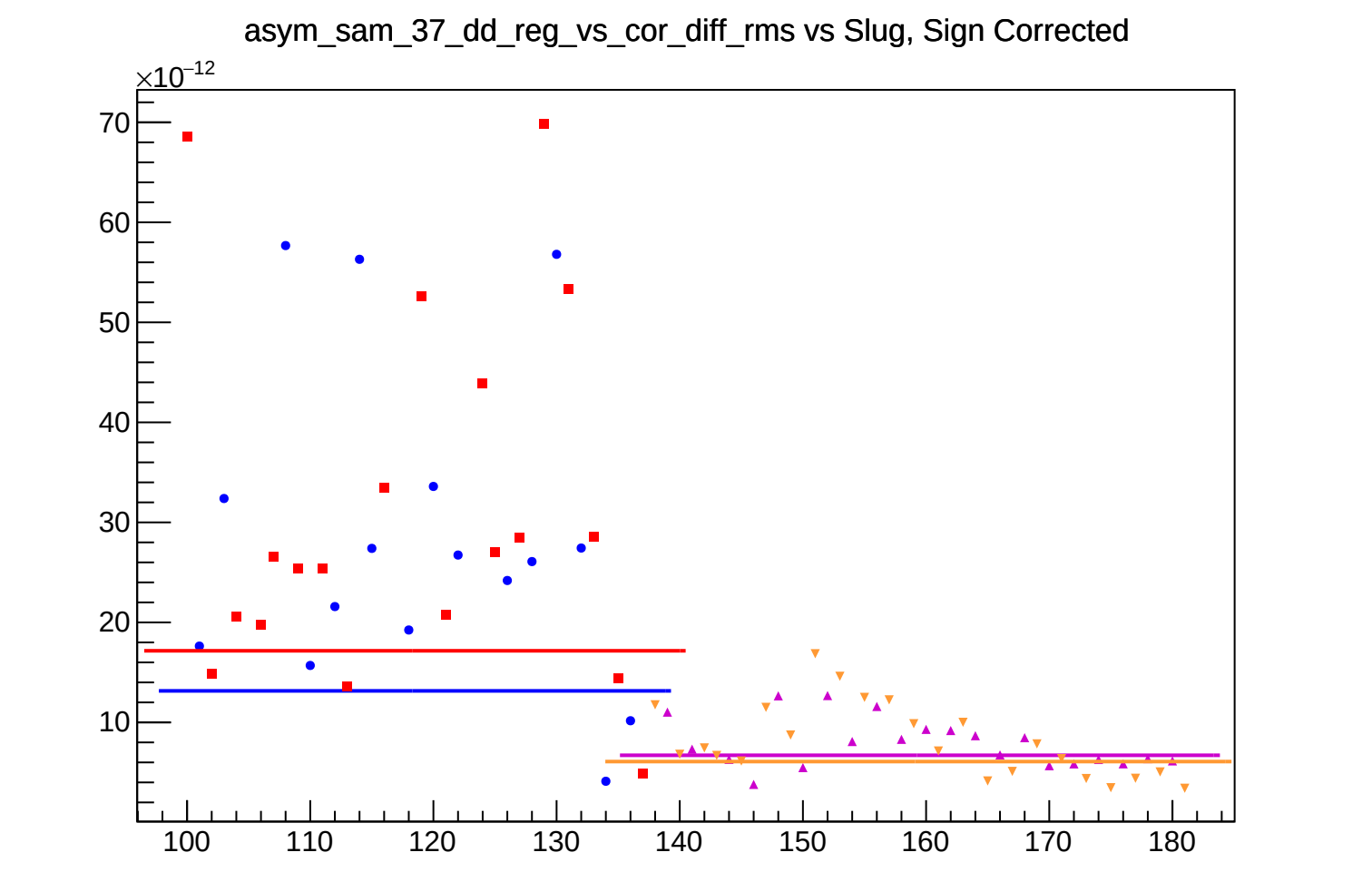
Left: 0.000+/-0.000 $\chi^2$/NDF: 25.5/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:32.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:35.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 67.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2082875.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2410818.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1646197.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1139032.4/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3605997.1/43

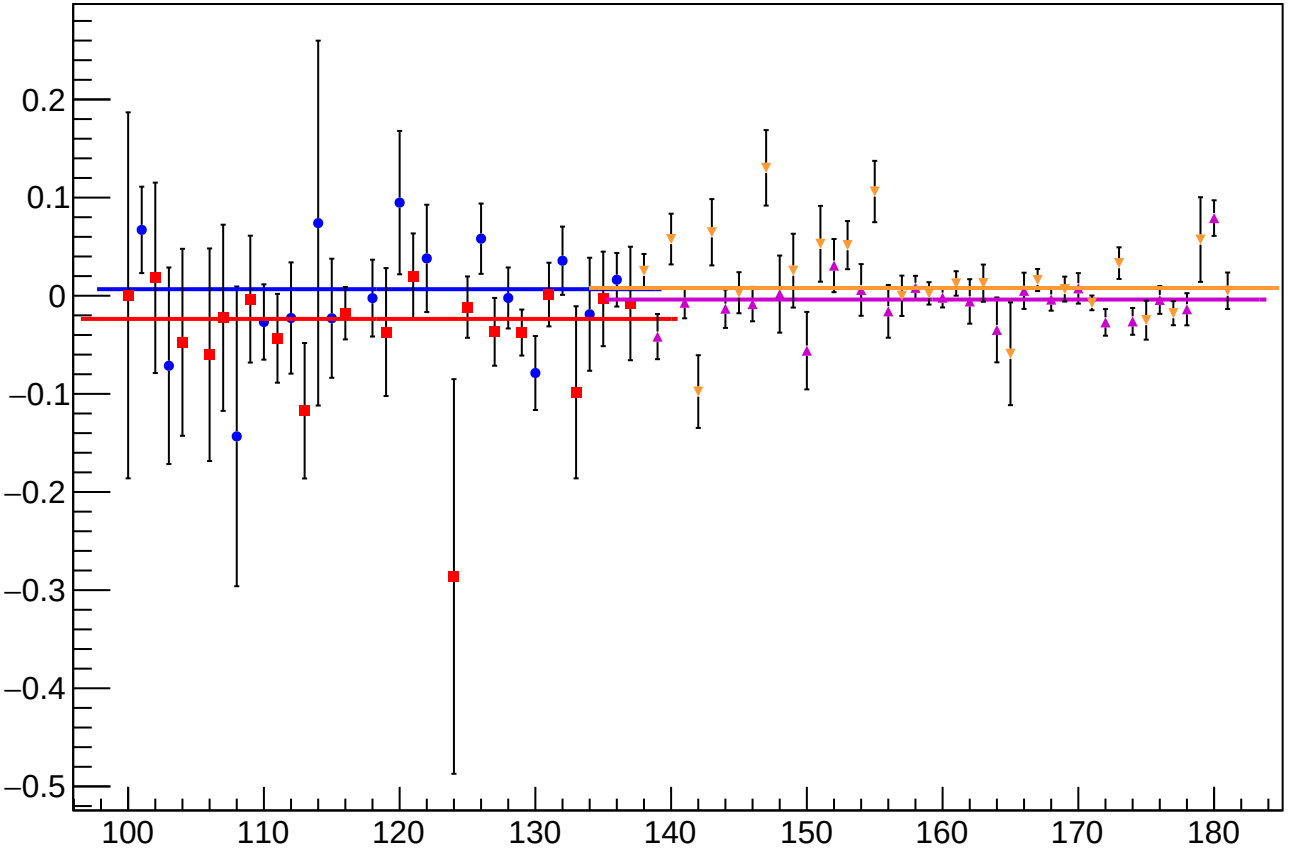
Right: 0.000+/-0.000 $\chi^2$/NDF: 3874616.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:4090434.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5817636.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9972032.9/78

asym_sam_37_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.008+/-0.004 $\chi^2$/NDF:58.3/22

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.004+/-0.004 $\chi^2$/NDF:36.4/20

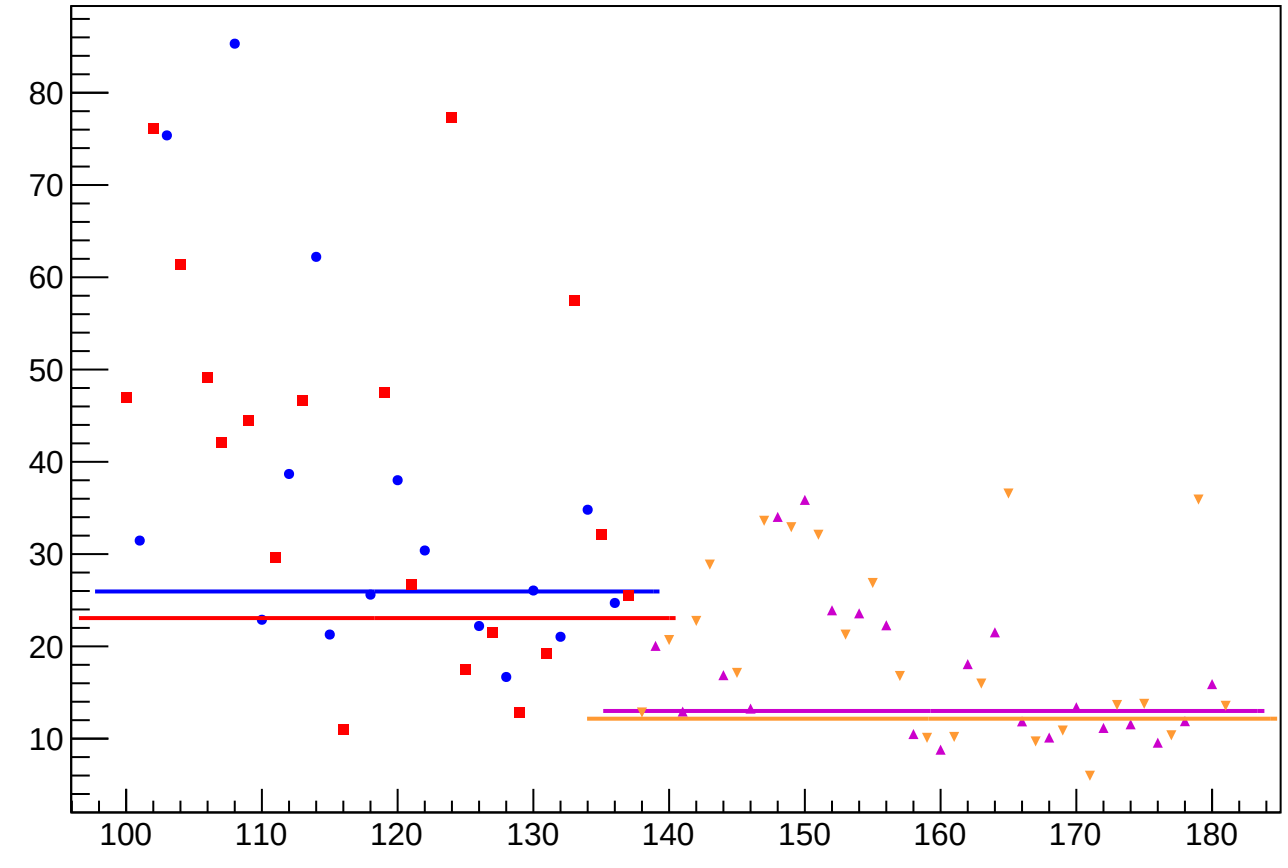
Left: 0.002+/-0.003 $\chi^2$/NDF: 100.0/43

Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.003+/-0.003 $\chi^2$/NDF:52.2/36

Out: 0.005+/-0.003 $\chi^2$/NDF:73.9/41

All: 0.001+/-0.002 $\chi^2$/NDF: 128.6/78




Right In: 25.949+/-0.008 $\chi^2$/NDF: 1381638.3/15

Left Out: 12.161+/-0.002 $\chi^2$/NDF:6374092.3/22

Right Out: 23.065+/-0.007 $\chi^2$/NDF: 3360857.8/18

Left In: 12.998+/-0.003 $\chi^2$/NDF:3444391.2/20

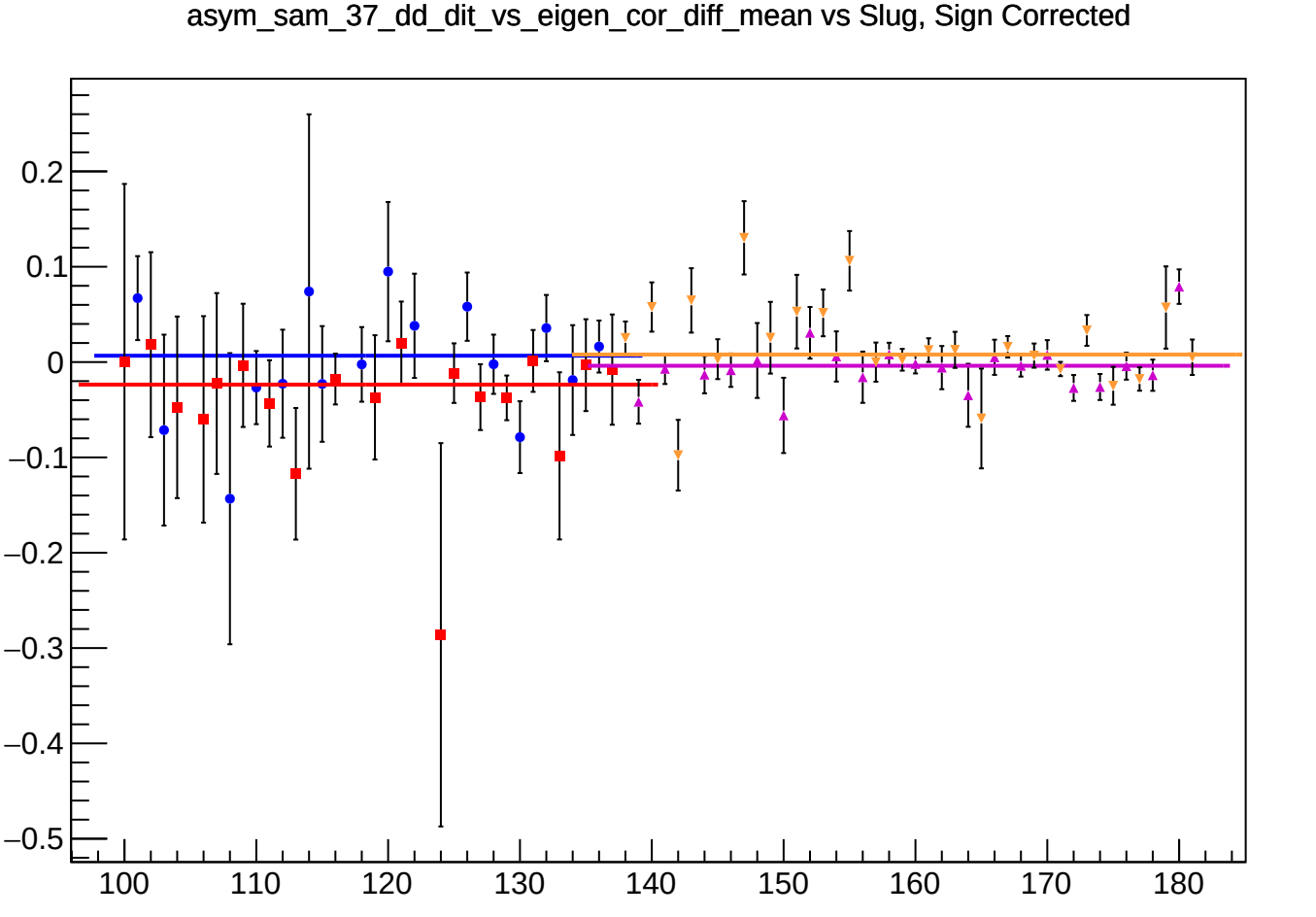
Left: 12.560+/-0.002 $\chi^2$/NDF: 9872891.6/43

Right: 24.427+/-0.005 $\chi^2$/NDF: 4813744.3/34

In: 14.274+/-0.002 $\chi^2$/NDF:7280530.0/36

Out: 13.253+/-0.002 $\chi^2$/NDF:11675201.3/41

All: 13.739+/-0.002 $\chi^2$/NDF: 19045823.1/78




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.008+/-0.004 $\chi^2$/NDF:58.3/22

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.004+/-0.004 $\chi^2$/NDF:36.4/20

Left: 0.002+/-0.003 $\chi^2$/NDF: 100.0/43

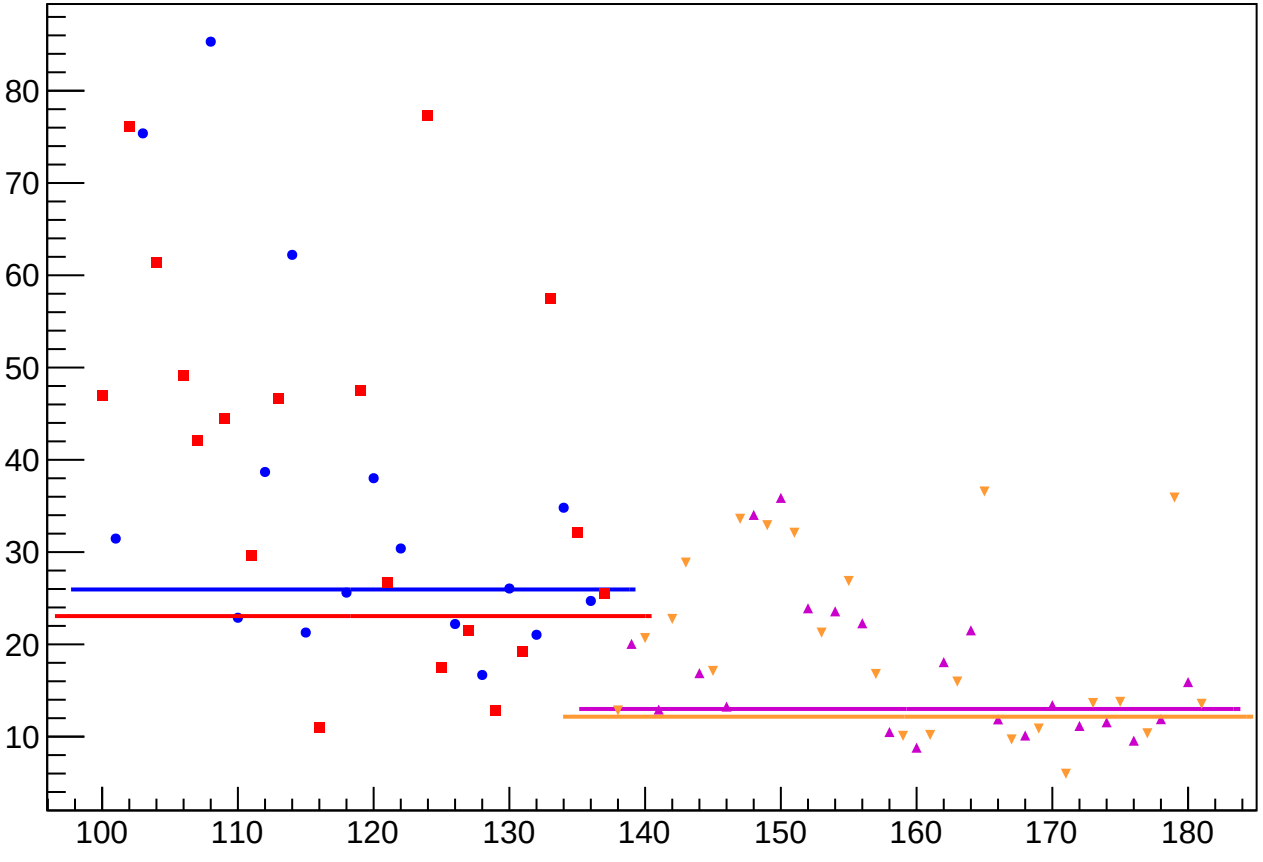
Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.003+/-0.003 $\chi^2$/NDF:52.2/36

Out: 0.005+/-0.003 $\chi^2$/NDF:73.9/41

All: 0.001+/-0.002 $\chi^2$/NDF: 128.6/78

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.949+/-0.008 $\chi^2$/NDF: 1381638.3/15

Left Out: 12.161+/-0.002 $\chi^2$/NDF:6374092.3/22

Right Out: 23.065+/-0.007 $\chi^2$/NDF: 3360857.8/18

Left In: 12.998+/-0.003 $\chi^2$/NDF:3444391.2/20

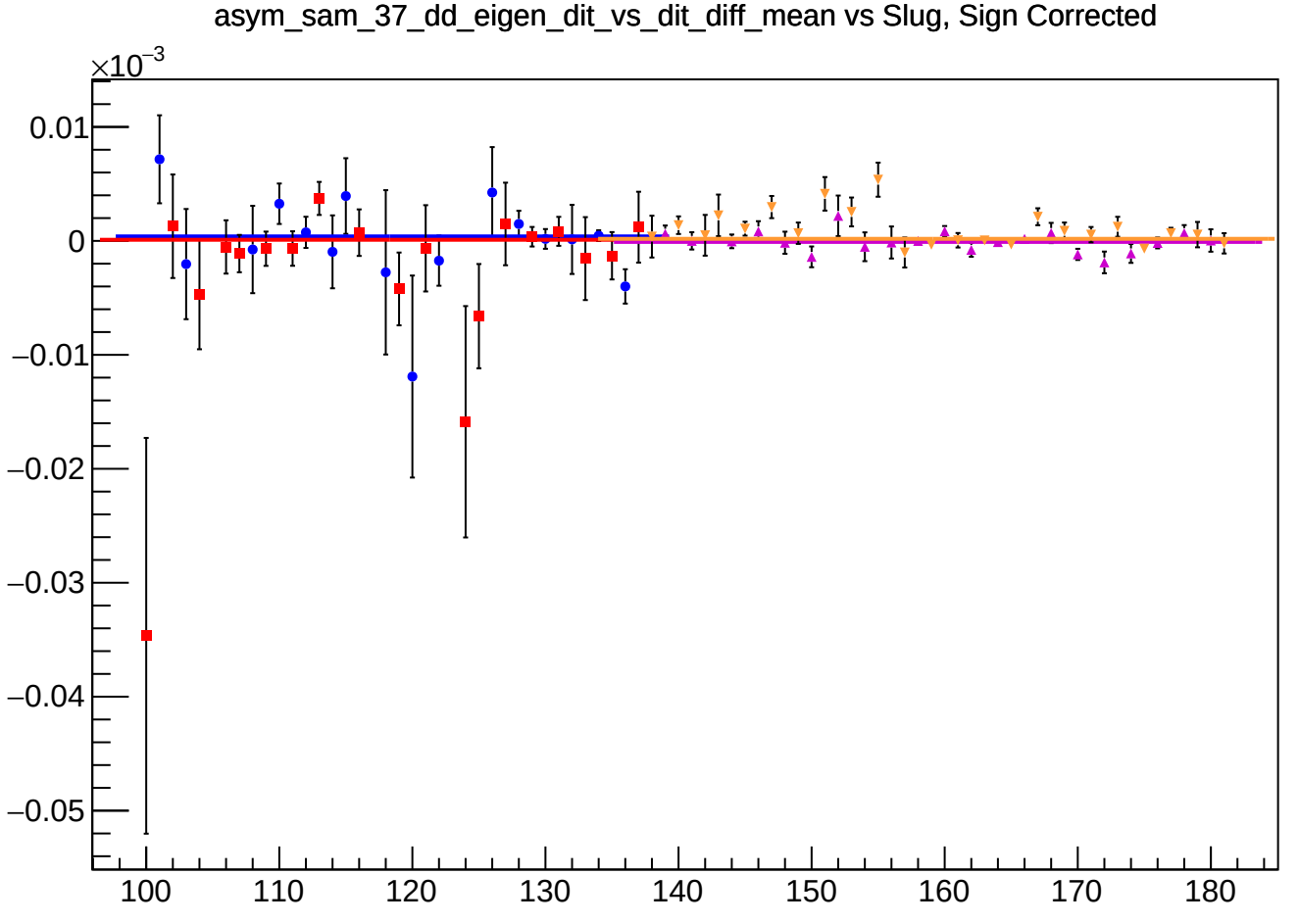
Left: 12.560+/-0.002 $\chi^2$/NDF: 9872891.6/43

Right: 24.427+/-0.005 $\chi^2$/NDF: 4813744.3/34

In: 14.274+/-0.002 $\chi^2$/NDF:7280530.0/36

Out: 13.253+/-0.002 $\chi^2$/NDF:11675201.3/41

All: 13.739+/-0.002 $\chi^2$/NDF: 19045823.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:60.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:23.9/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 87.0/43

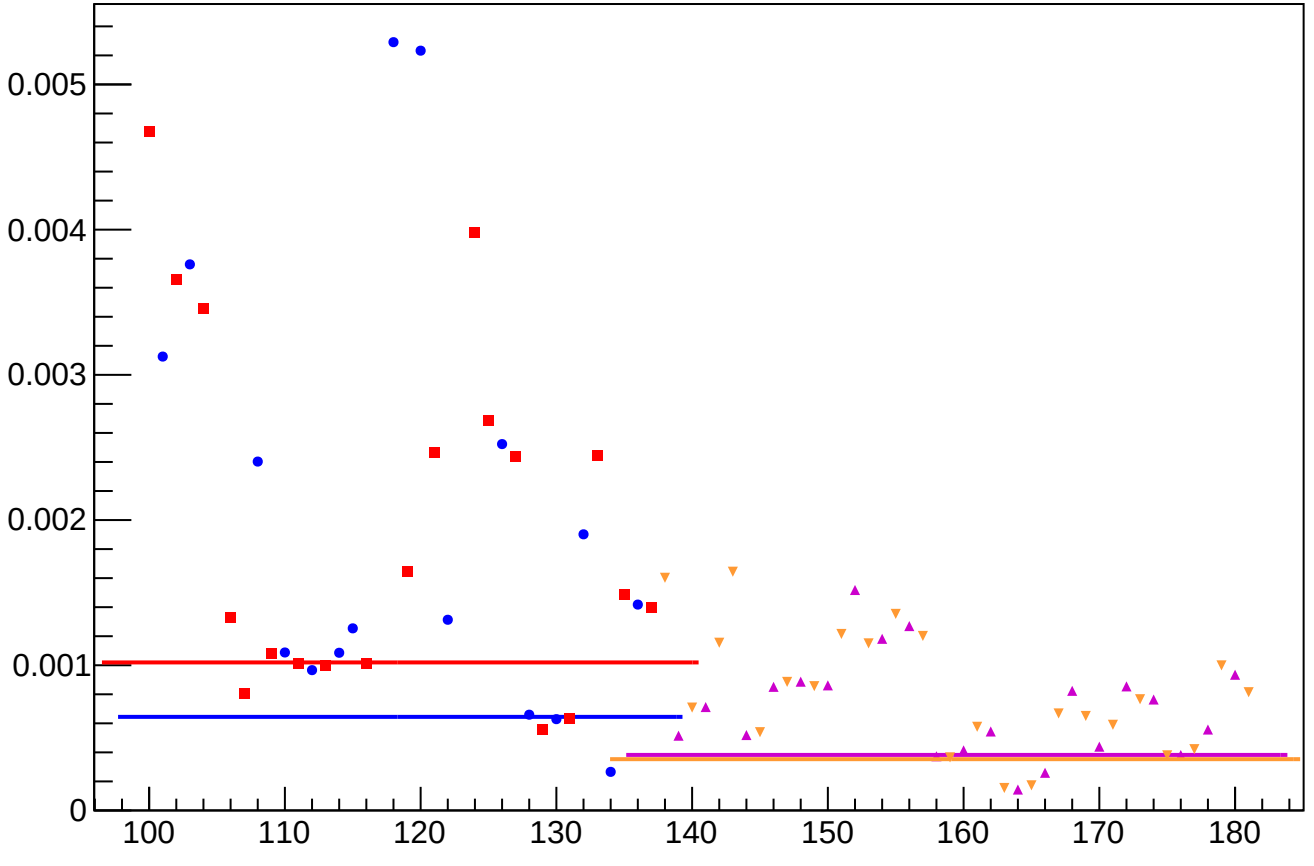
Right: 0.000+/-0.000 $\chi^2$/NDF: 41.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:46.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:80.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 129.3/78

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 6575652.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13822060.3/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3662501.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:10381501.2/20

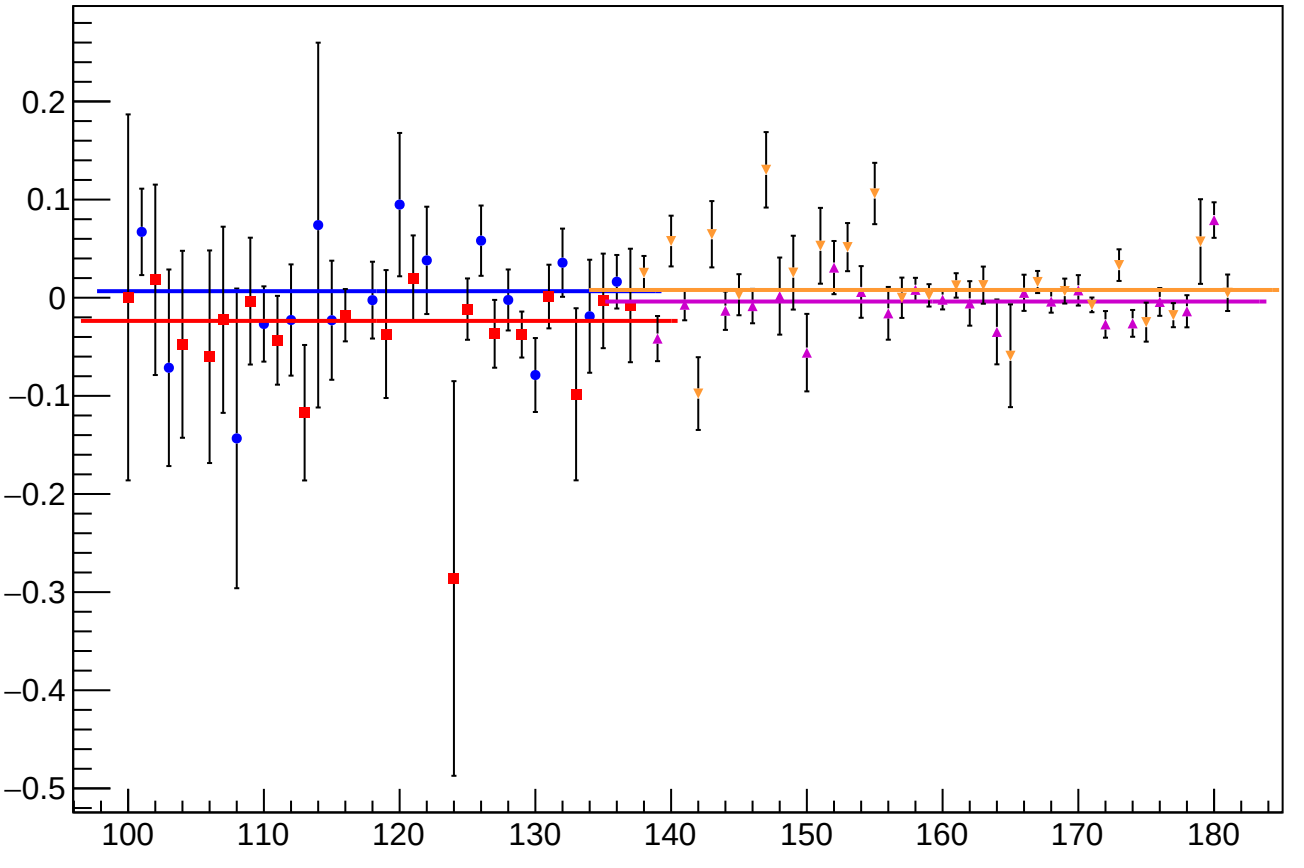
Left: 0.000+/-0.000 $\chi^2$/NDF: 24272639.7/43

Right: 0.001+/-0.000 $\chi^2$/NDF: 11121544.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:18021526.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:21632179.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 39691464.8/78




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.008+/-0.004 $\chi^2$/NDF:58.3/22

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.004+/-0.004 $\chi^2$/NDF:36.4/20

Left: 0.002+/-0.003 $\chi^2$/NDF: 100.0/43

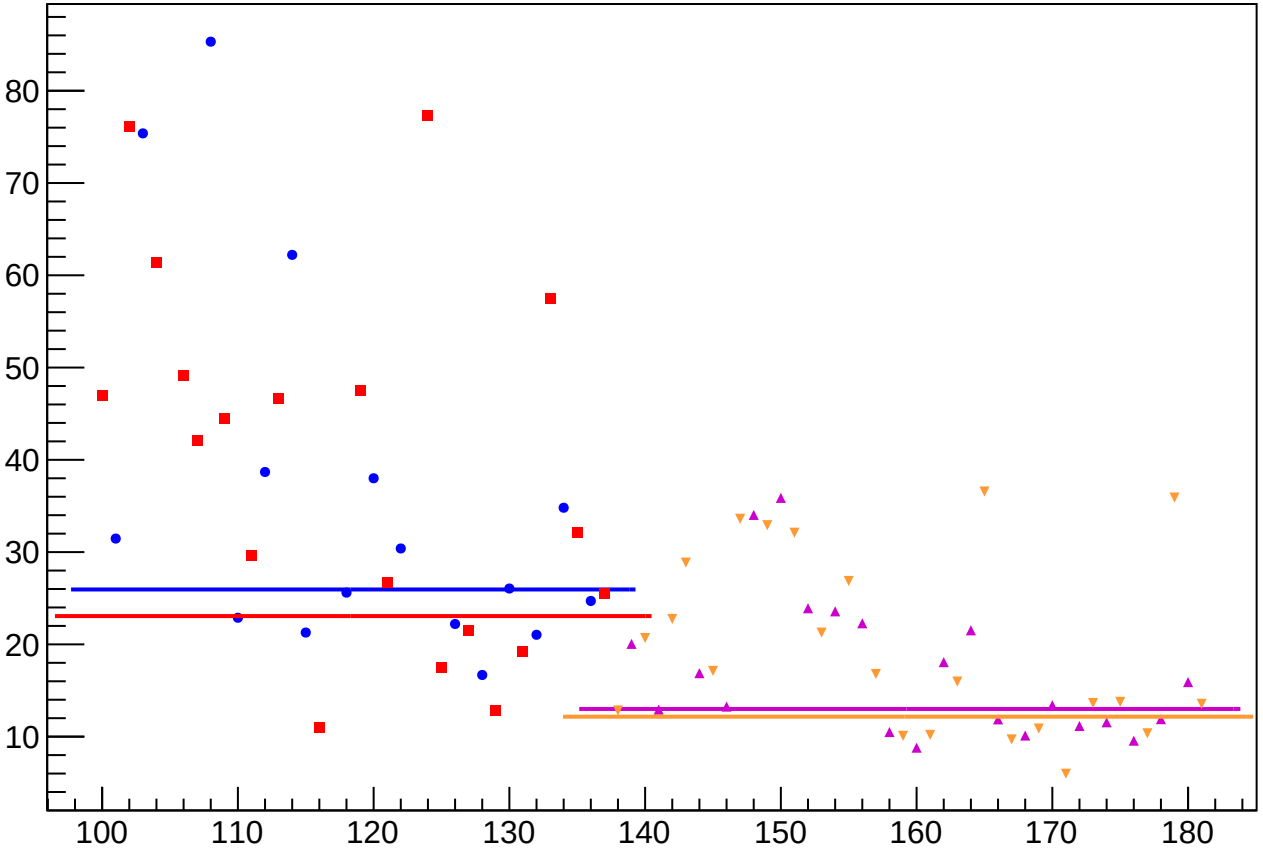
Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.003+/-0.003 $\chi^2$/NDF:52.2/36

Out: 0.005+/-0.003 $\chi^2$/NDF:73.9/41

All: 0.001+/-0.002 $\chi^2$/NDF: 128.6/78

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.950+/-0.008 $\chi^2$/NDF: 1381591.4/15

Left Out: 12.162+/-0.002 $\chi^2$/NDF:6374330.2/22

Right Out: 23.066+/-0.007 $\chi^2$/NDF: 3360688.5/18

Left In: 12.998+/-0.003 $\chi^2$/NDF:3444552.7/20

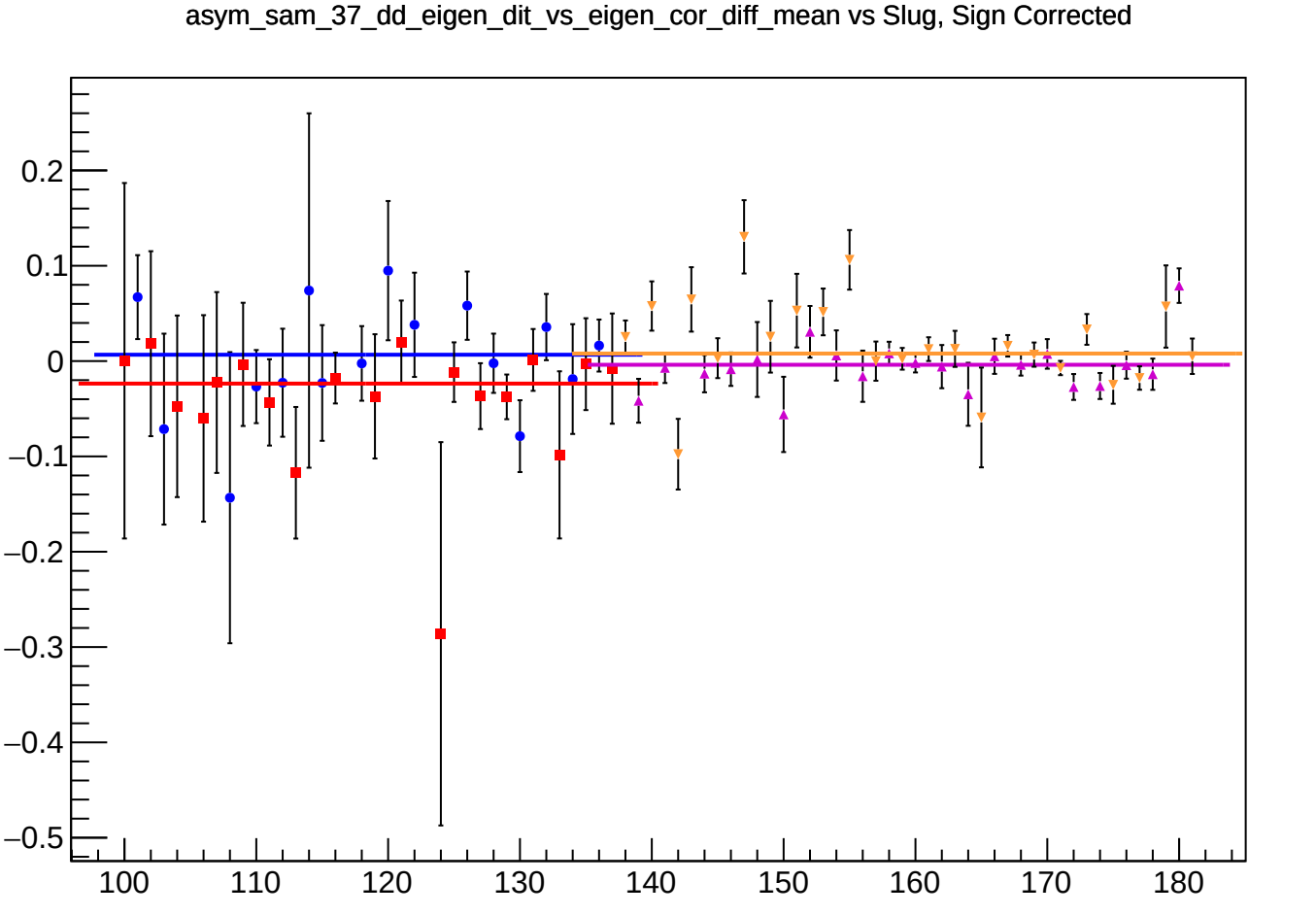
Left: 12.560+/-0.002 $\chi^2$/NDF: 9873284.6/43

Right: 24.428+/-0.005 $\chi^2$/NDF: 4813518.6/34

In: 14.274+/-0.002 $\chi^2$/NDF:7280727.6/36

Out: 13.253+/-0.002 $\chi^2$/NDF:11675372.9/41

All: 13.739+/-0.002 $\chi^2$/NDF: 19046182.1/78




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.008+/-0.004 $\chi^2$/NDF:58.3/22

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.004+/-0.004 $\chi^2$/NDF:36.4/20

Left: 0.002+/-0.003 $\chi^2$/NDF: 100.0/43

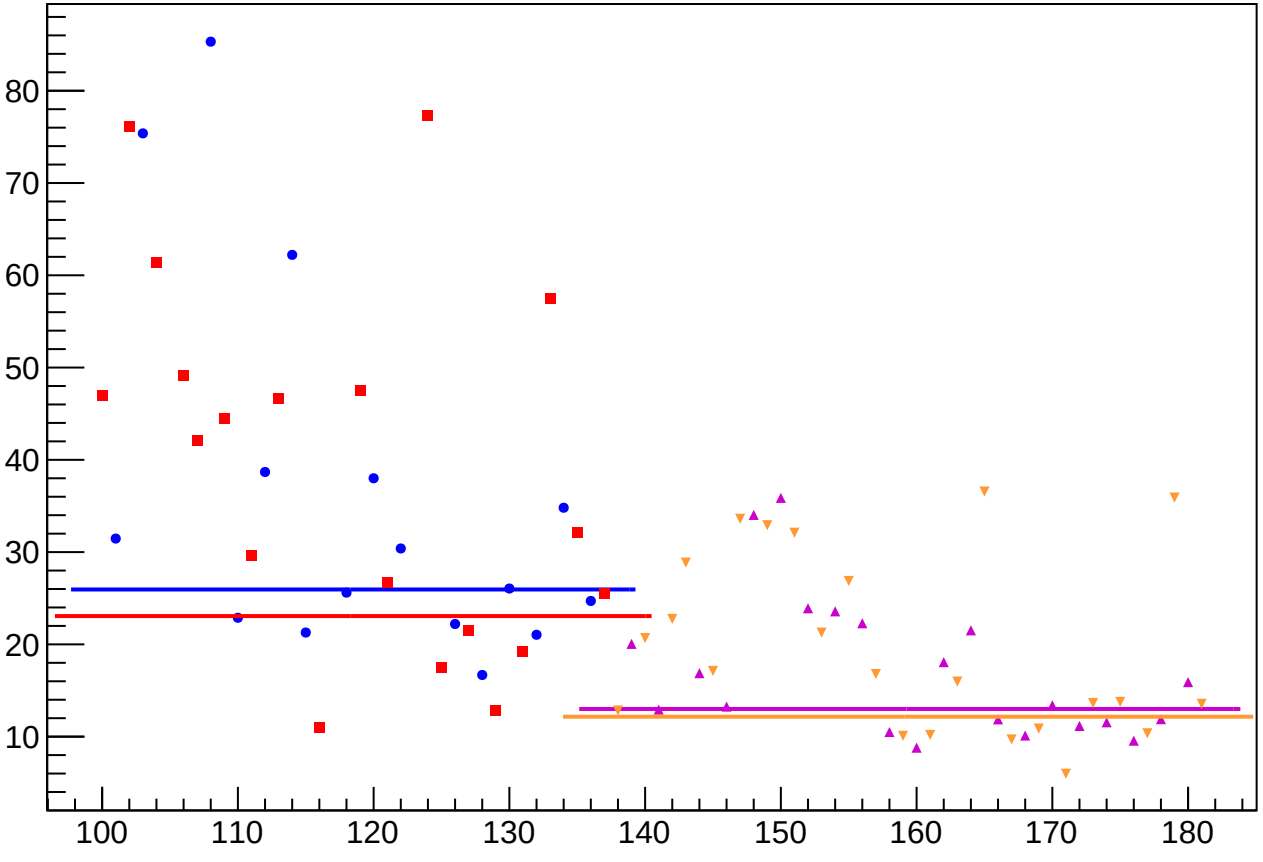
Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.003+/-0.003 $\chi^2$/NDF:52.2/36

Out: 0.005+/-0.003 $\chi^2$/NDF:73.9/41

All: 0.001+/-0.002 $\chi^2$/NDF: 128.6/78

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.950+/-0.008 $\chi^2$/NDF: 1381591.4/15

Left Out: 12.162+/-0.002 $\chi^2$/NDF:6374330.2/22

Right Out: 23.066+/-0.007 $\chi^2$/NDF: 3360688.5/18

Left In: 12.998+/-0.003 $\chi^2$/NDF:3444552.7/20

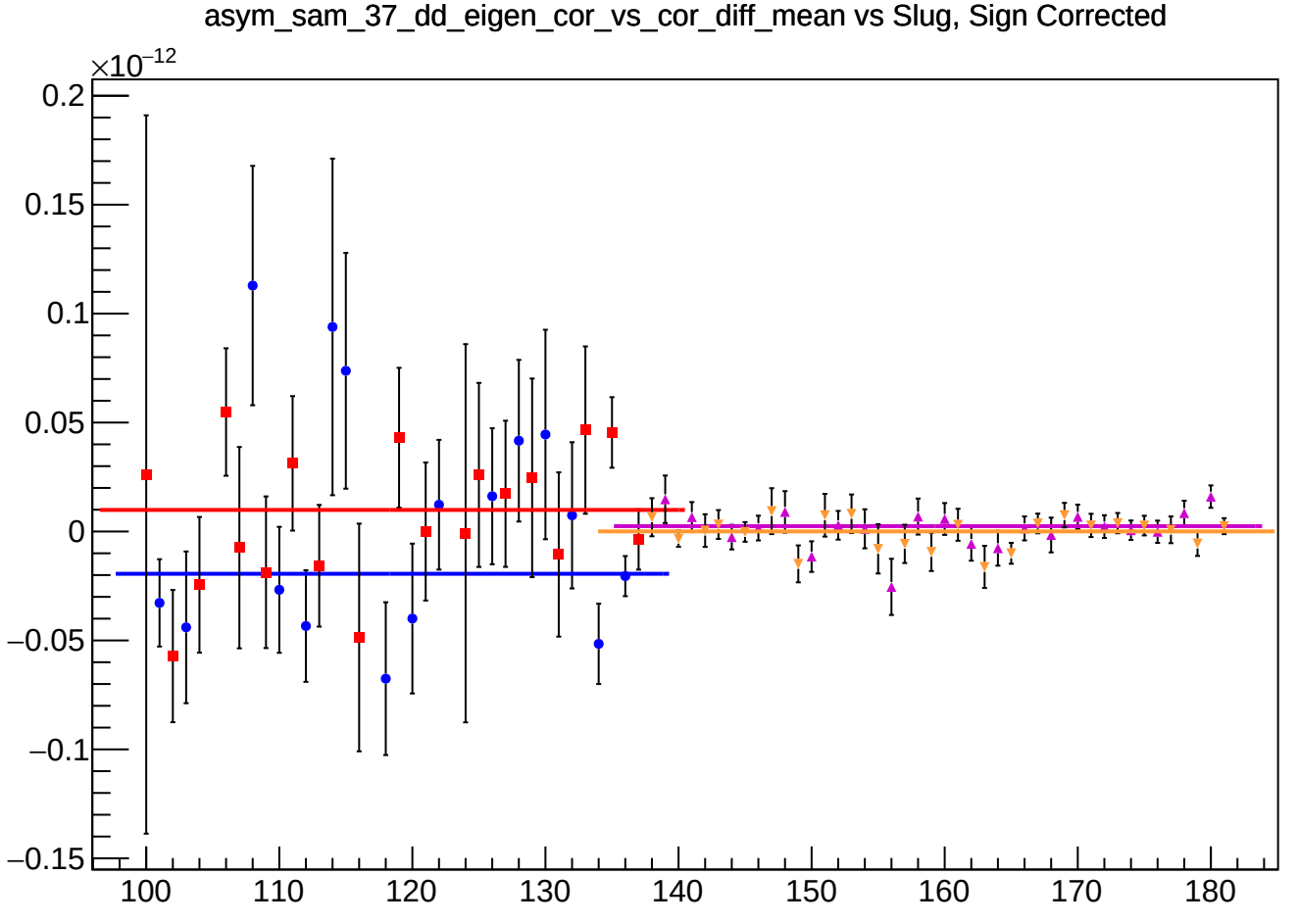
Left: 12.560+/-0.002 $\chi^2$/NDF: 9873284.6/43

Right: 24.428+/-0.005 $\chi^2$/NDF: 4813518.6/34

In: 14.274+/-0.002 $\chi^2$/NDF:7280727.6/36

Out: 13.253+/-0.002 $\chi^2$/NDF:11675372.9/41

All: 13.739+/-0.002 $\chi^2$/NDF: 19046182.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:24.2/20

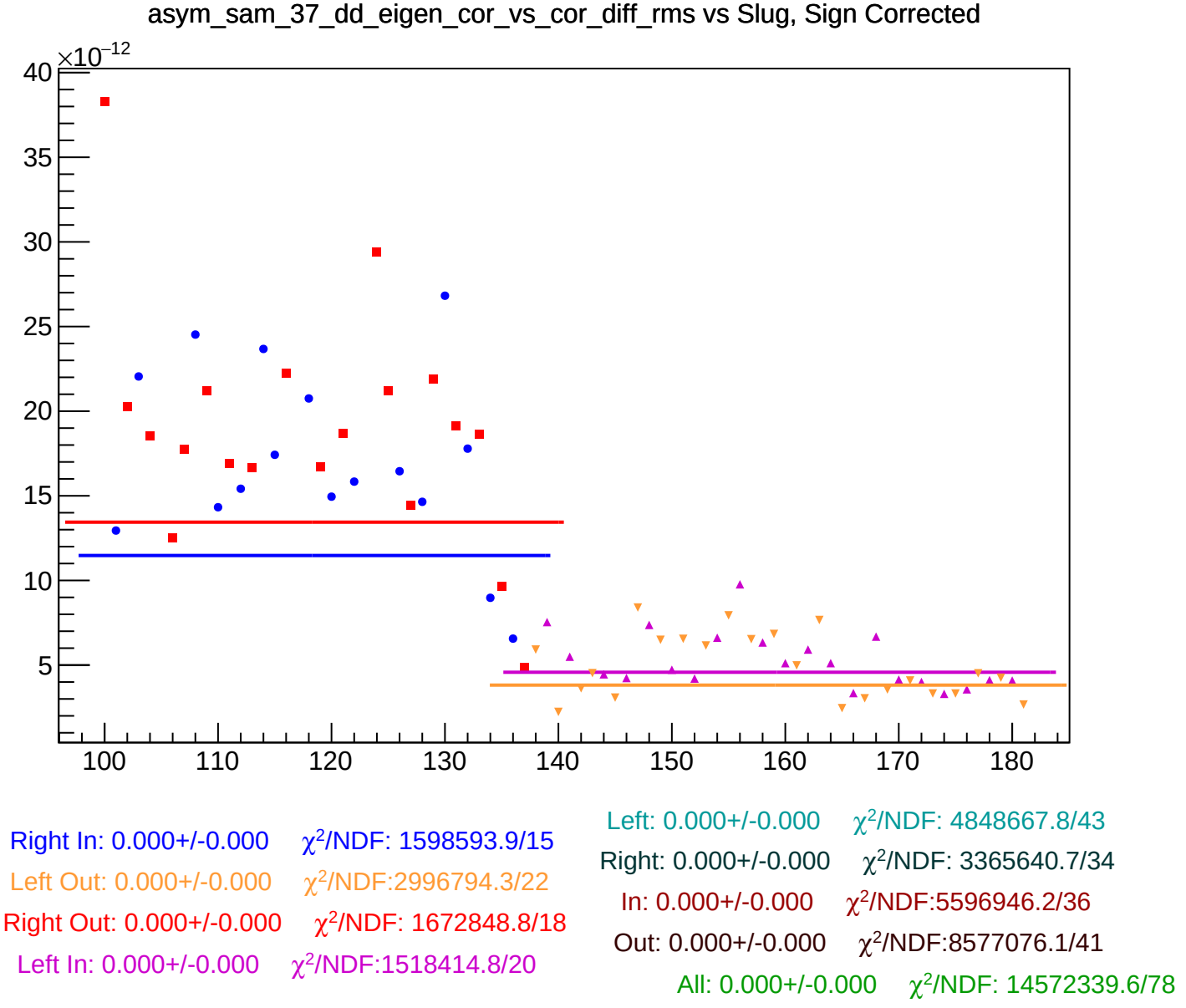
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.2/43

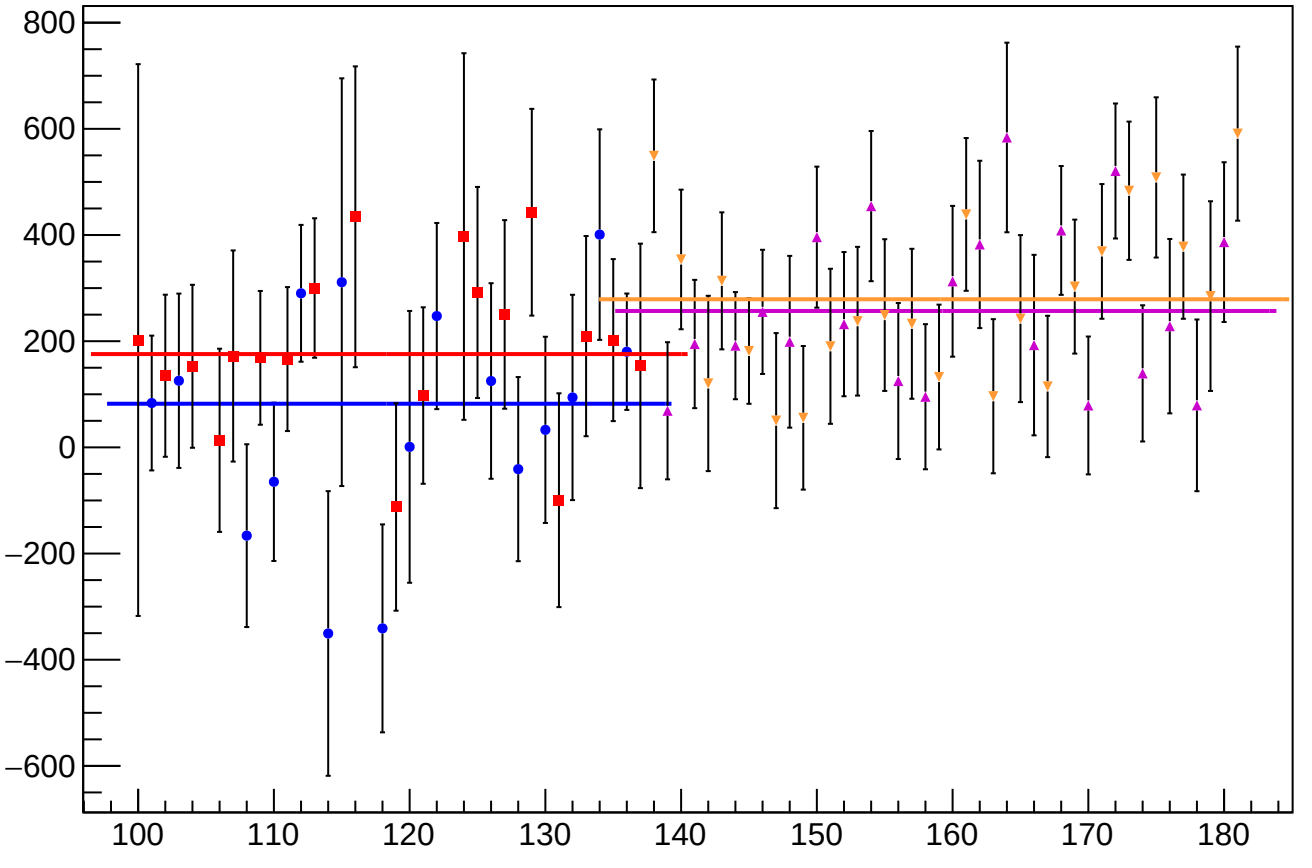
Right: -0.000+/-0.000 $\chi^2$/NDF: 56.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:62.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:43.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 106.3/78


asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
40
35
30
25
20
15
10
5
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1598593.9/15
Left Out: 0.000+/-0.000 χ²/NDF:2996794.3/22
Right Out: 0.000+/-0.000 χ²/NDF: 1672848.8/18
Left In: 0.000+/-0.000 χ²/NDF:1518414.8/20
Left: 0.000+/-0.000 χ²/NDF: 4848667.8/43
Right: 0.000+/-0.000 χ²/NDF: 3365640.7/34
In: 0.000+/-0.000 χ²/NDF:5596946.2/36
Out: 0.000+/-0.000 χ²/NDF:8577076.1/41
All: 0.000+/-0.000 χ²/NDF: 14572339.6/78




Right In: 82.196+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 278.995+/-28.997 $\chi^2$/NDF:26.1/22

Right Out: 175.732+/-40.673 $\chi^2$/NDF: 9.9/18

Left In: 256.924+/-29.830 $\chi^2$/NDF:23.1/20

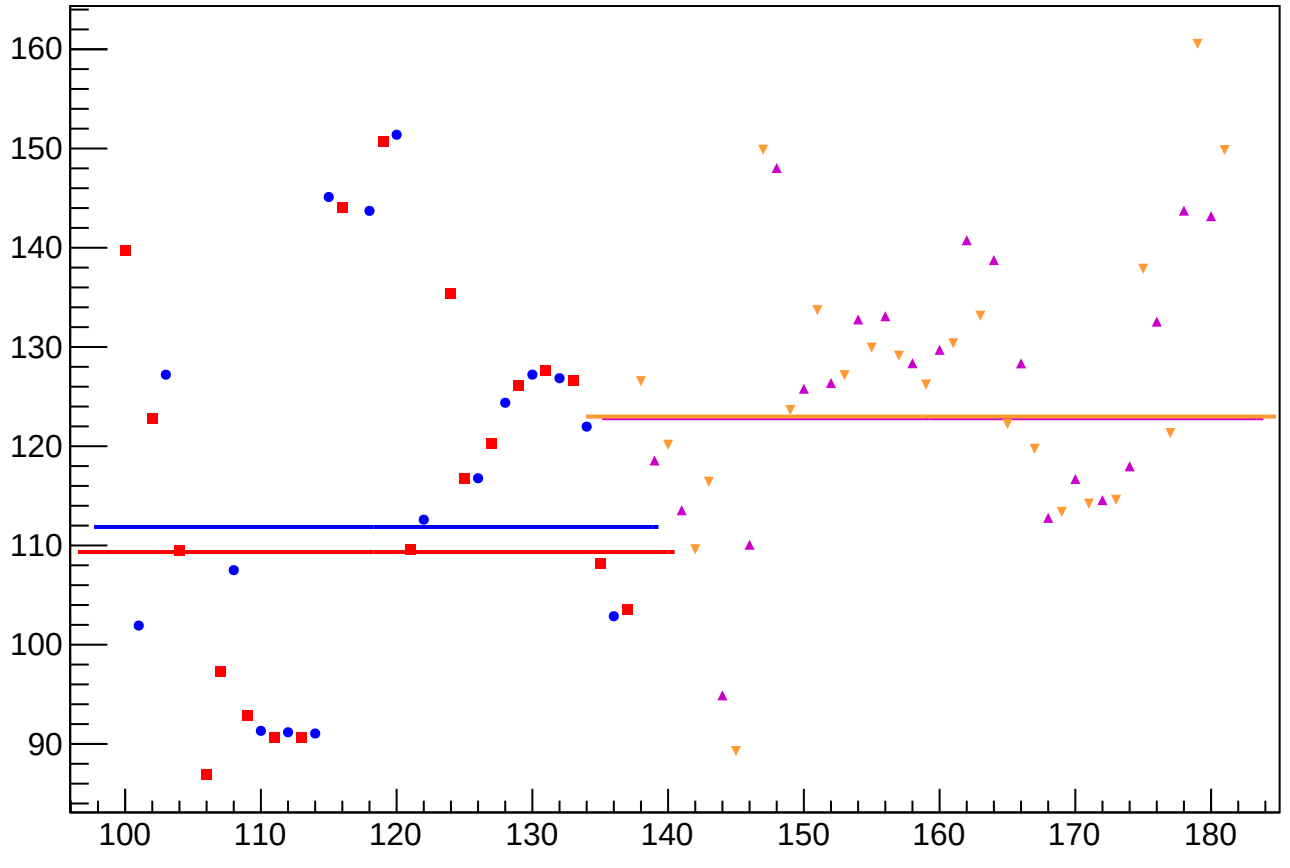
Left: 268.273+/-20.792 $\chi^2$/NDF: 49.4/43

Right: 130.613+/-29.263 $\chi^2$/NDF: 30.8/34

In: 198.584+/-24.346 $\chi^2$/NDF:52.9/36

Out: 244.197+/-23.611 $\chi^2$/NDF:40.2/41

All: 222.089+/-16.949 $\chi^2$/NDF: 94.9/78




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306023.8/15

Left Out: 122.988+/-0.021 $\chi^2$/NDF:533076.1/22

Right Out: 109.340+/-0.029 $\chi^2$/NDF: 367219.9/18

Left In: 122.822+/-0.021 $\chi^2$/NDF:419963.4/20

Left: 122.907+/-0.015 $\chi^2$/NDF: 953071.3/43

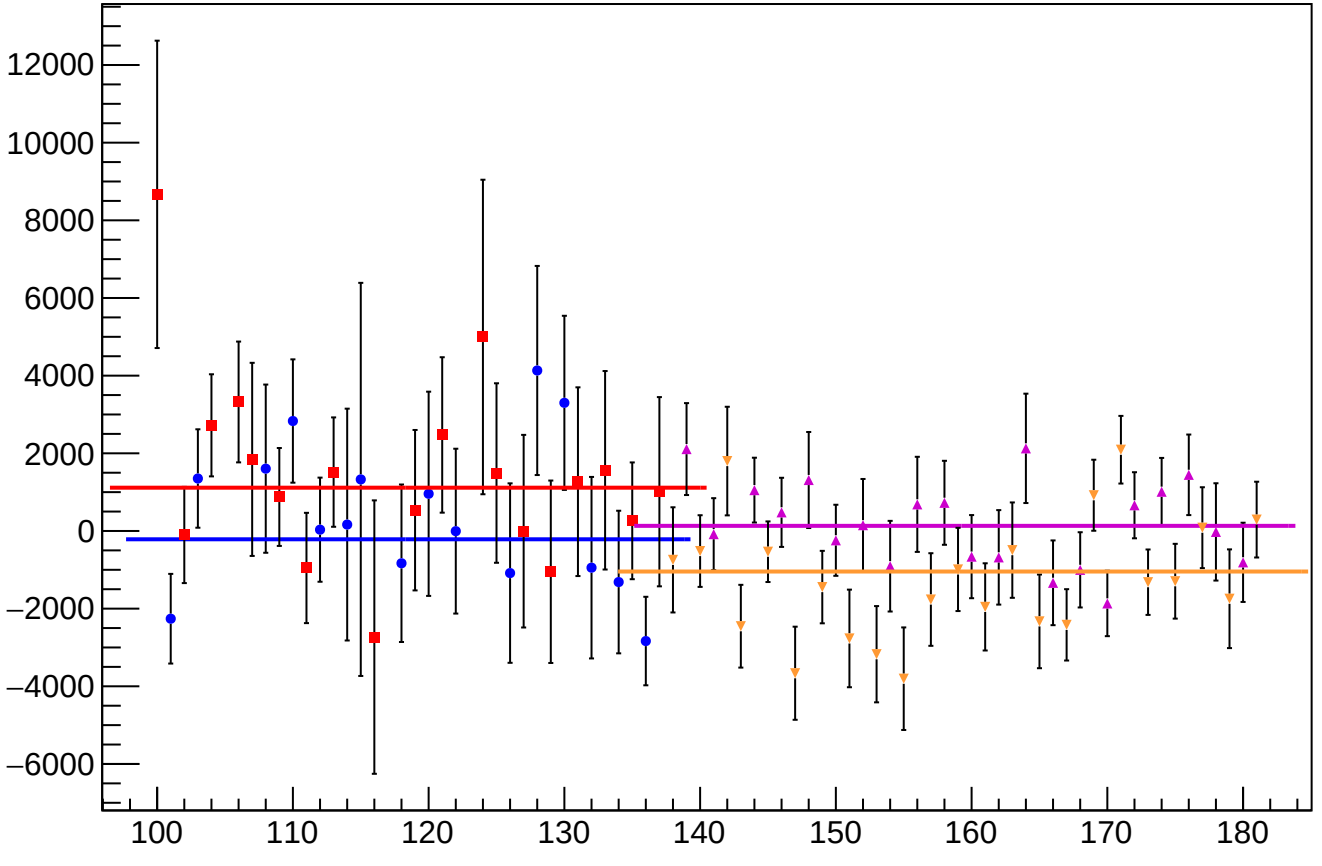
Right: 110.557+/-0.021 $\chi^2$/NDF: 676952.3/34

In: 119.162+/-0.017 $\chi^2$/NDF:816130.4/36

Out: 118.389+/-0.017 $\chi^2$/NDF:1049592.5/41

All: 118.764+/-0.012 $\chi^2$/NDF: 1866763.9/78

asym_sam_48_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -214.187+/-443.962 $\chi^2$/NDF: 20.4/15

Left Out: -1044.246+/-218.476 $\chi^2$/NDF:46.5/22

Right Out: 1114.700+/-423.039 $\chi^2$/NDF: 14.5/18

Left In: 132.000+/-223.713 $\chi^2$/NDF:22.3/20

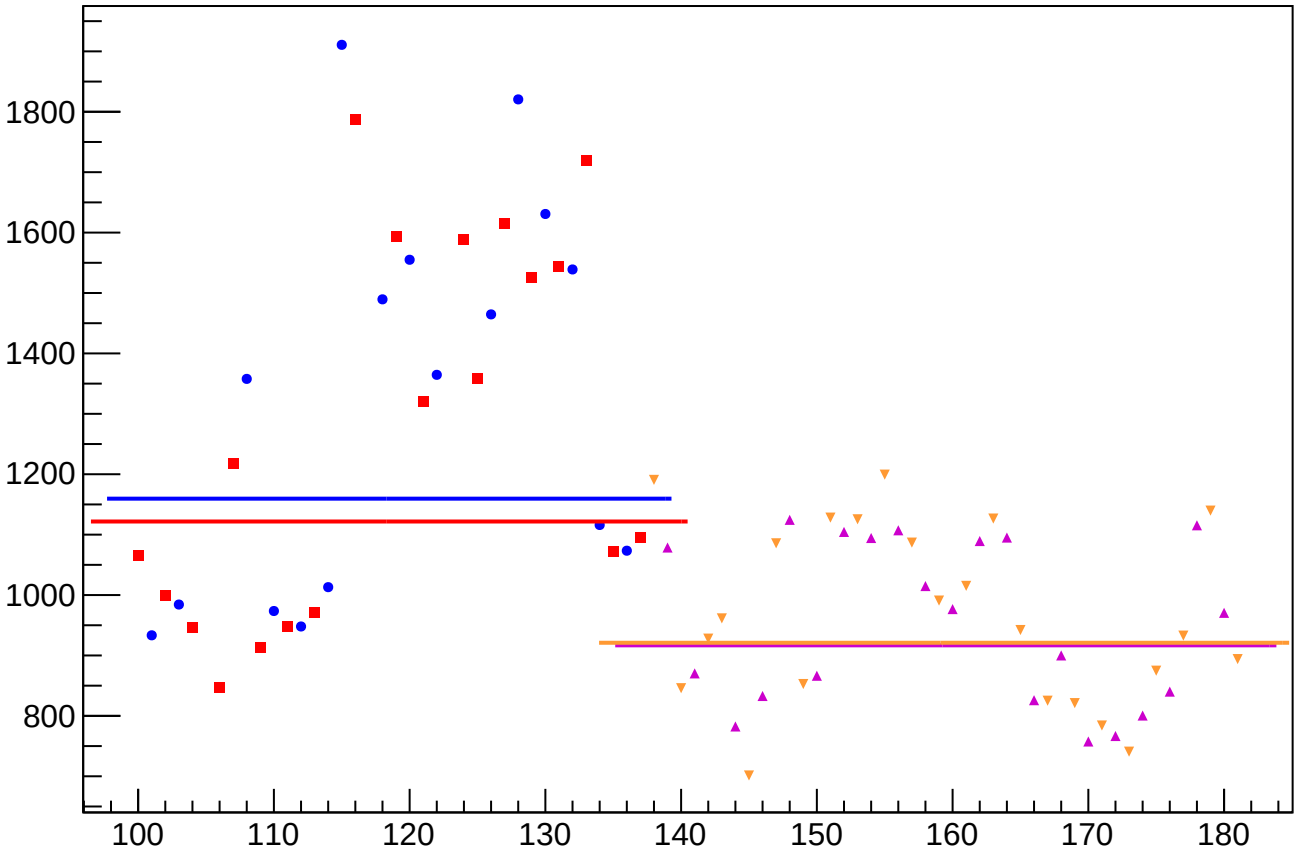
Left: -470.051+/-156.305 $\chi^2$/NDF: 83.0/43

Right: 482.307+/-306.263 $\chi^2$/NDF: 39.7/34

In: 61.897+/-199.782 $\chi^2$/NDF:43.2/36

Out: -589.666+/-194.117 $\chi^2$/NDF:81.6/41

All: -273.253+/-139.221 $\chi^2$/NDF: 130.3/78




Right In: 1159.567+/-0.314 $\chi^2$/NDF: 683693.3/15

Left Out: 921.031+/-0.154 $\chi^2$/NDF:870196.1/22

Right Out: 1121.752+/-0.299 $\chi^2$/NDF: 782273.3/18

Left In: 916.763+/-0.158 $\chi^2$/NDF:664532.9/20

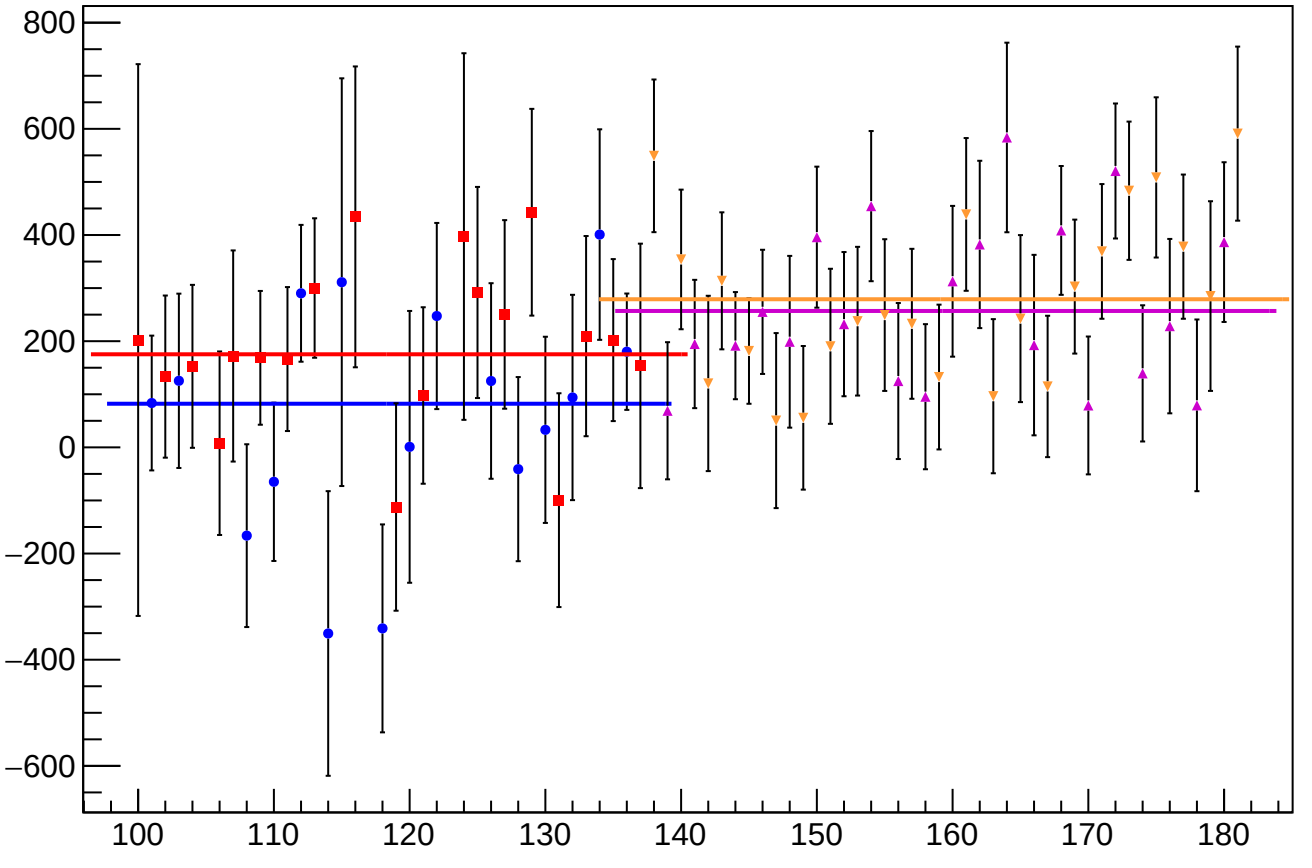
Left: 918.948+/-0.111 $\chi^2$/NDF: 1535101.6/43

Right: 1139.747+/-0.217 $\chi^2$/NDF: 1473571.5/34

In: 965.930+/-0.141 $\chi^2$/NDF:1825294.5/36

Out: 963.294+/-0.137 $\chi^2$/NDF:2007915.2/41

All: 964.574+/-0.098 $\chi^2$/NDF: 3833388.8/78




Right In: 82.185+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 279.001+/-28.997 $\chi^2$/NDF:26.1/22

Right Out: 175.338+/-40.678 $\chi^2$/NDF: 9.9/18

Left In: 256.927+/-29.830 $\chi^2$/NDF:23.1/20

Left: 268.277+/-20.792 $\chi^2$/NDF: 49.4/43

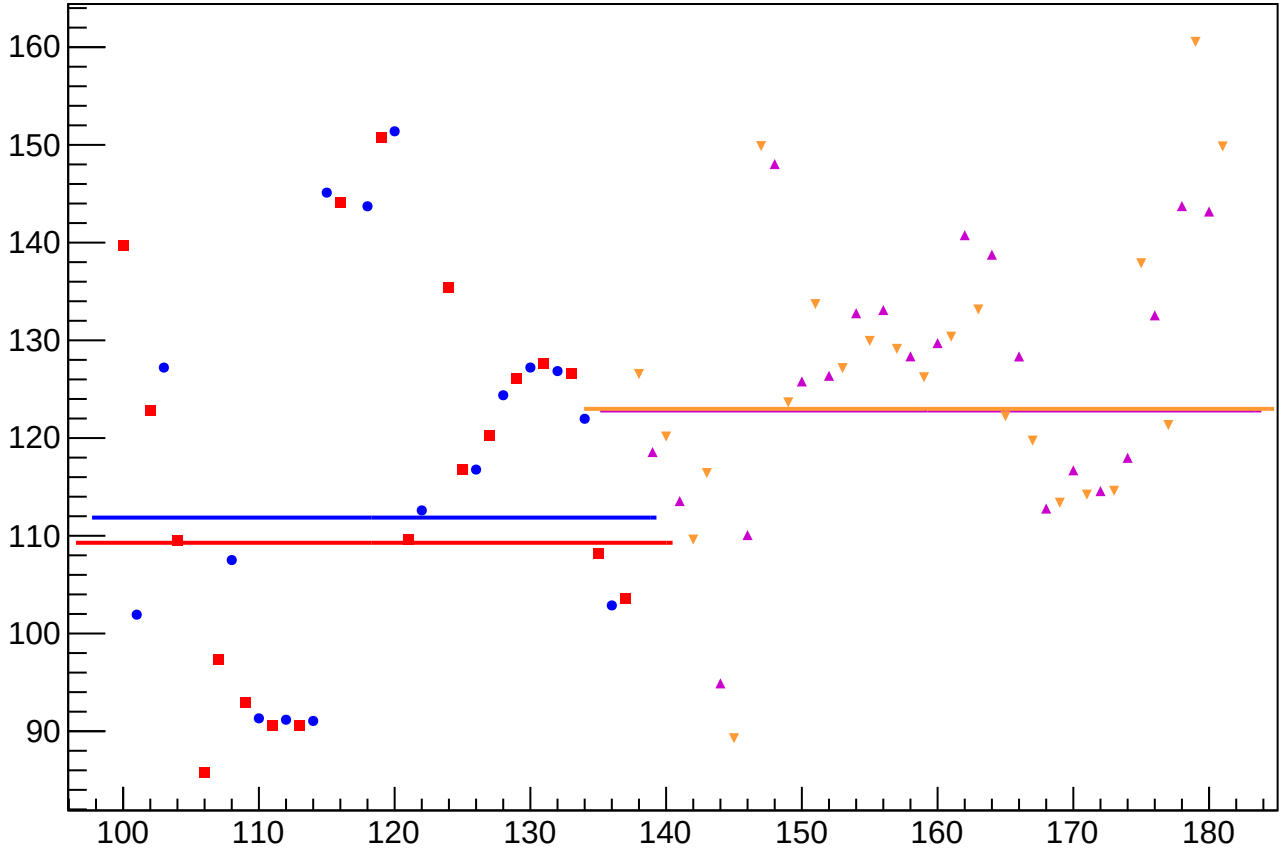
Right: 130.398+/-29.265 $\chi^2$/NDF: 30.8/34

In: 198.581+/-24.346 $\chi^2$/NDF:52.9/36

Out: 244.074+/-23.612 $\chi^2$/NDF:40.3/41

All: 222.024+/-16.950 $\chi^2$/NDF: 95.0/78

# cor_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306025.0/15

Left Out: 122.988+/-0.021 $\chi^2$/NDF:533076.1/22

Right Out: 109.284+/-0.029 $\chi^2$/NDF: 370711.7/18

Left In: 122.822+/-0.021 $\chi^2$/NDF:419963.4/20

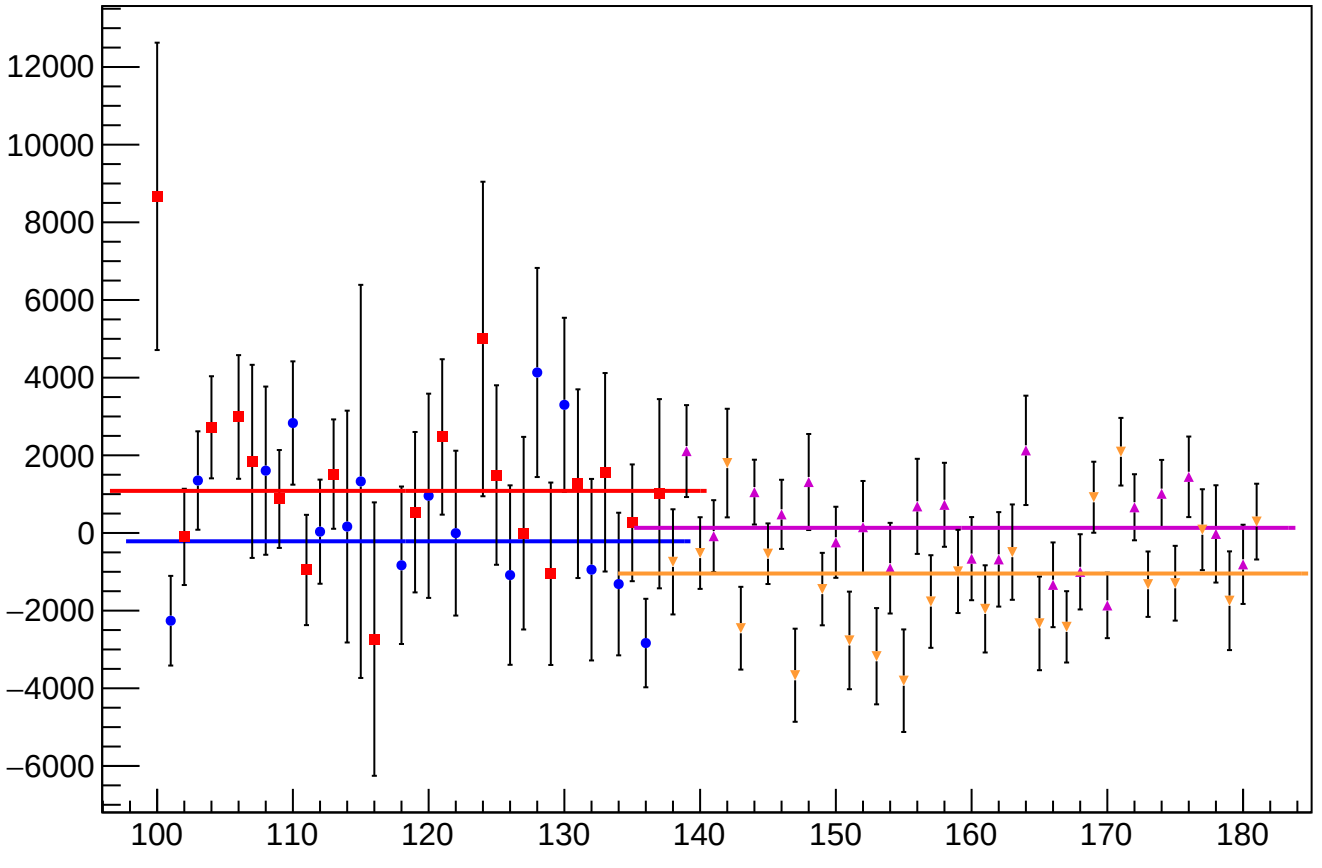
Left: 122.907+/-0.015 $\chi^2$/NDF: 953071.3/43

Right: 110.528+/-0.021 $\chi^2$/NDF: 680611.7/34

In: 119.162+/-0.017 $\chi^2$/NDF:816131.1/36

Out: 118.371+/-0.017 $\chi^2$/NDF:1054287.6/41

All: 118.754+/-0.012 $\chi^2$/NDF: 1871508.9/78




Right In: -214.278+/-443.965 $\chi^2$/NDF: 20.4/15

Left Out: -1044.241+/-218.476 $\chi^2$/NDF:46.5/22

Right Out: 1083.943+/-423.774 $\chi^2$/NDF: 13.9/18

Left In: 132.002+/-223.713 $\chi^2$/NDF:22.3/20

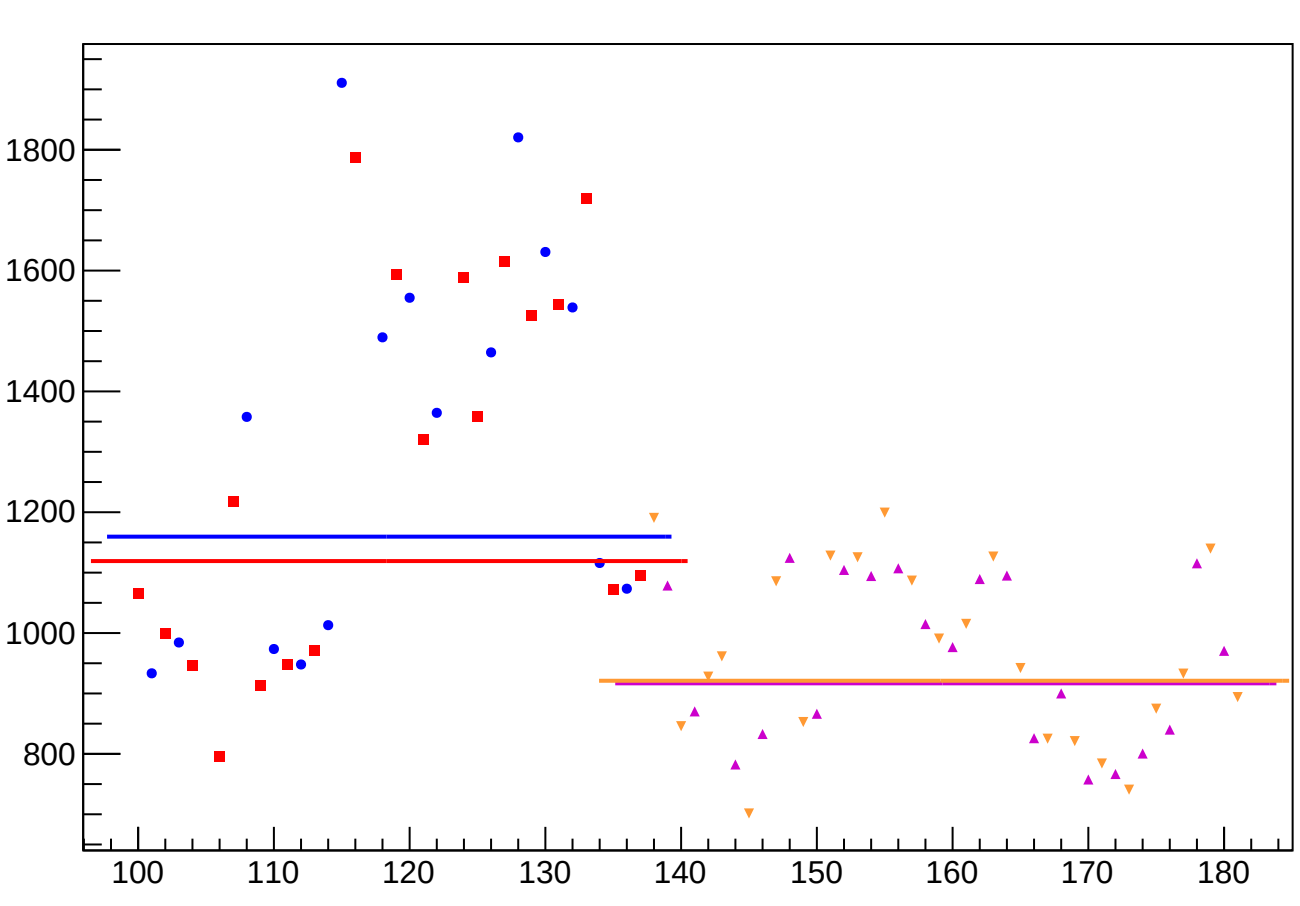
Left: -470.048+/-156.305 $\chi^2$/NDF: 83.0/43

Right: 465.023+/-306.543 $\chi^2$/NDF: 38.8/34

In: 61.881+/-199.783 $\chi^2$/NDF:43.2/36

Out: -597.366+/-194.188 $\chi^2$/NDF:80.4/41

All: -277.101+/-139.248 $\chi^2$/NDF: 129.1/78




Right In: 1159.576+/-0.314 $\chi^2$/NDF: 683662.2/15

Left Out: 921.031+/-0.154 $\chi^2$/NDF:870196.4/22

Right Out: 1119.156+/-0.300 $\chi^2$/NDF: 803154.6/18

Left In: 916.763+/-0.158 $\chi^2$/NDF:664534.1/20

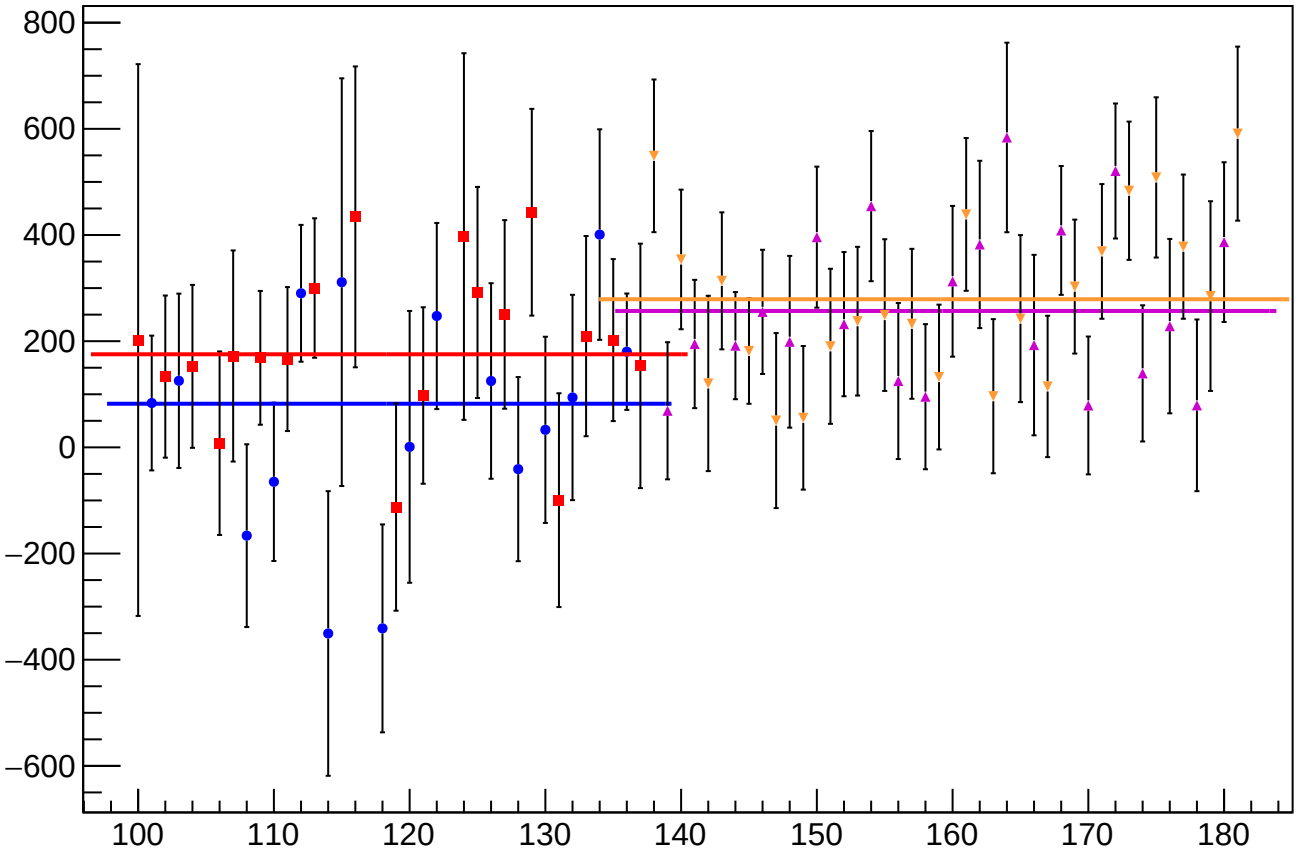
Left: 918.948+/-0.111 $\chi^2$/NDF: 1535103.1/43

Right: 1138.426+/-0.217 $\chi^2$/NDF: 1495491.5/34

In: 965.932+/-0.141 $\chi^2$/NDF:1825296.3/36

Out: 962.633+/-0.137 $\chi^2$/NDF:2018712.7/41

All: 964.236+/-0.098 $\chi^2$/NDF: 3844289.4/78




Right In: 82.185+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 279.001+/-28.997 $\chi^2$/NDF:26.1/22

Right Out: 175.338+/-40.678 $\chi^2$/NDF: 9.9/18

Left In: 256.927+/-29.830 $\chi^2$/NDF:23.1/20

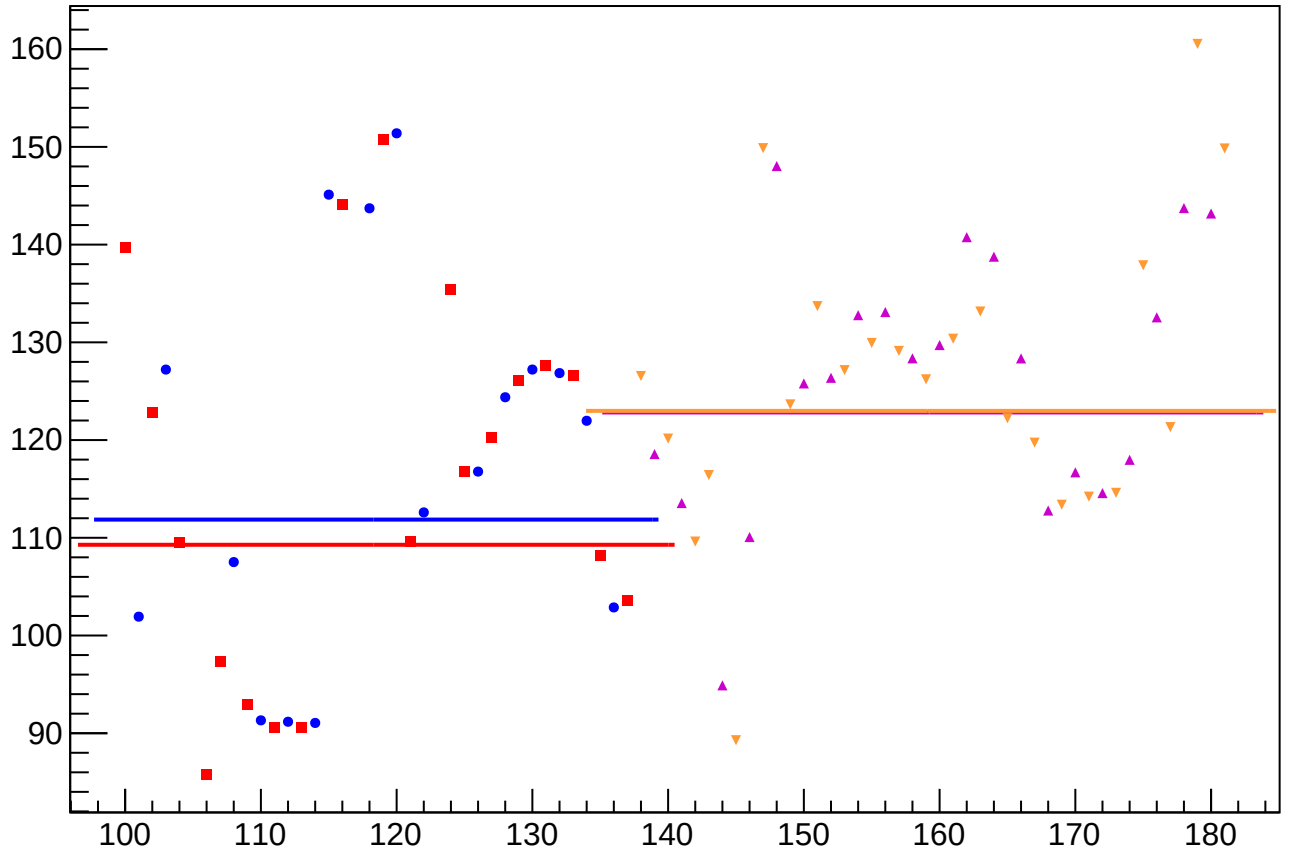
Left: 268.277+/-20.792 $\chi^2$/NDF: 49.4/43

Right: 130.398+/-29.265 $\chi^2$/NDF: 30.8/34

In: 198.581+/-24.346 $\chi^2$/NDF:52.9/36

Out: 244.074+/-23.612 $\chi^2$/NDF:40.3/41

All: 222.024+/-16.950 $\chi^2$/NDF: 95.0/78




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306025.0/15

Left Out: 122.988+/-0.021 $\chi^2$/NDF:533076.1/22

Right Out: 109.284+/-0.029 $\chi^2$/NDF: 370711.7/18

Left In: 122.822+/-0.021 $\chi^2$/NDF:419963.4/20

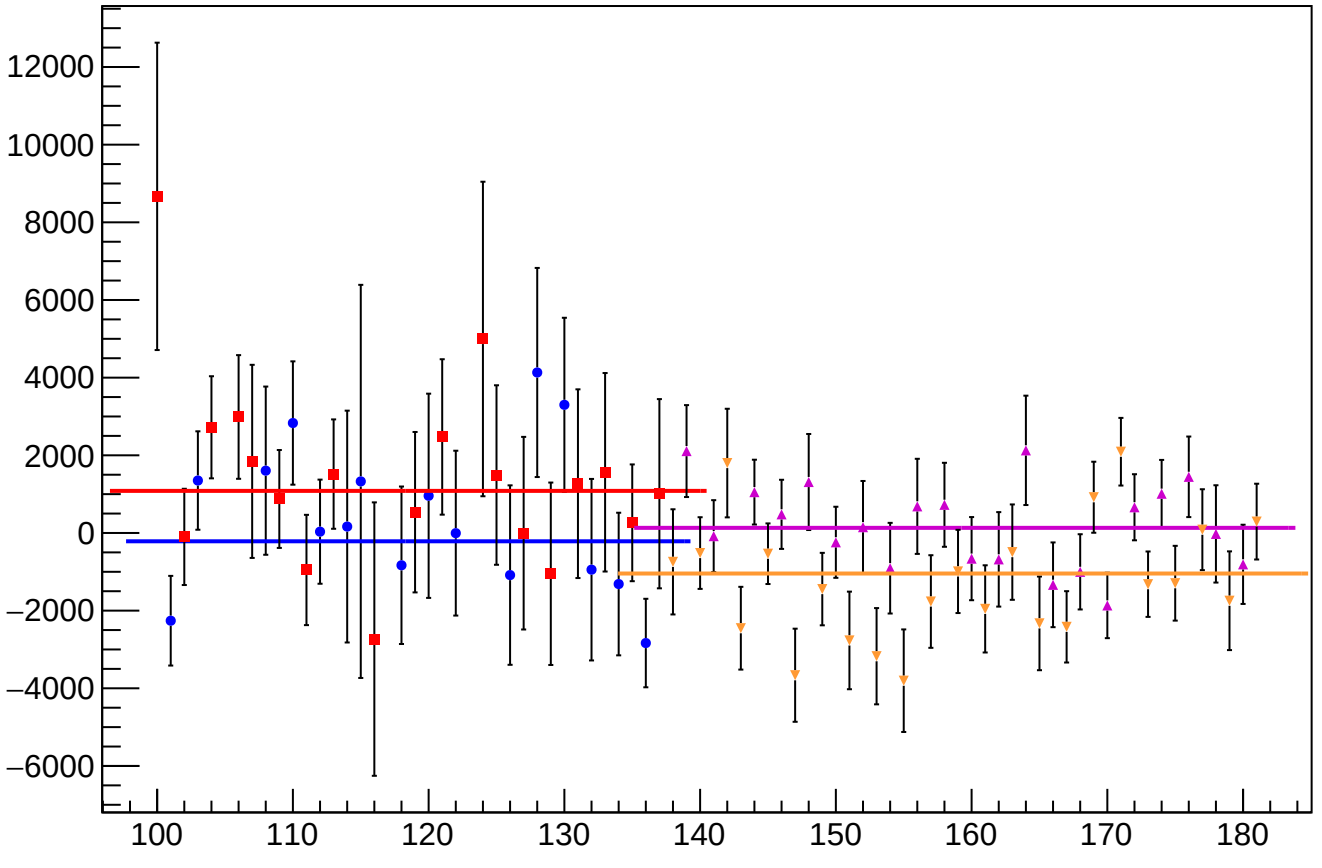
Left: 122.907+/-0.015 $\chi^2$/NDF: 953071.3/43

Right: 110.528+/-0.021 $\chi^2$/NDF: 680611.7/34

In: 119.162+/-0.017 $\chi^2$/NDF:816131.1/36

Out: 118.371+/-0.017 $\chi^2$/NDF:1054287.6/41

All: 118.754+/-0.012 $\chi^2$/NDF: 1871508.9/78




Right In: -214.278+/-443.965 $\chi^2$/NDF: 20.4/15

Left Out: -1044.241+/-218.476 $\chi^2$/NDF:46.5/22

Right Out: 1083.943+/-423.774 $\chi^2$/NDF: 13.9/18

Left In: 132.002+/-223.713 $\chi^2$/NDF:22.3/20

Left: -470.048+/-156.305 $\chi^2$/NDF: 83.0/43

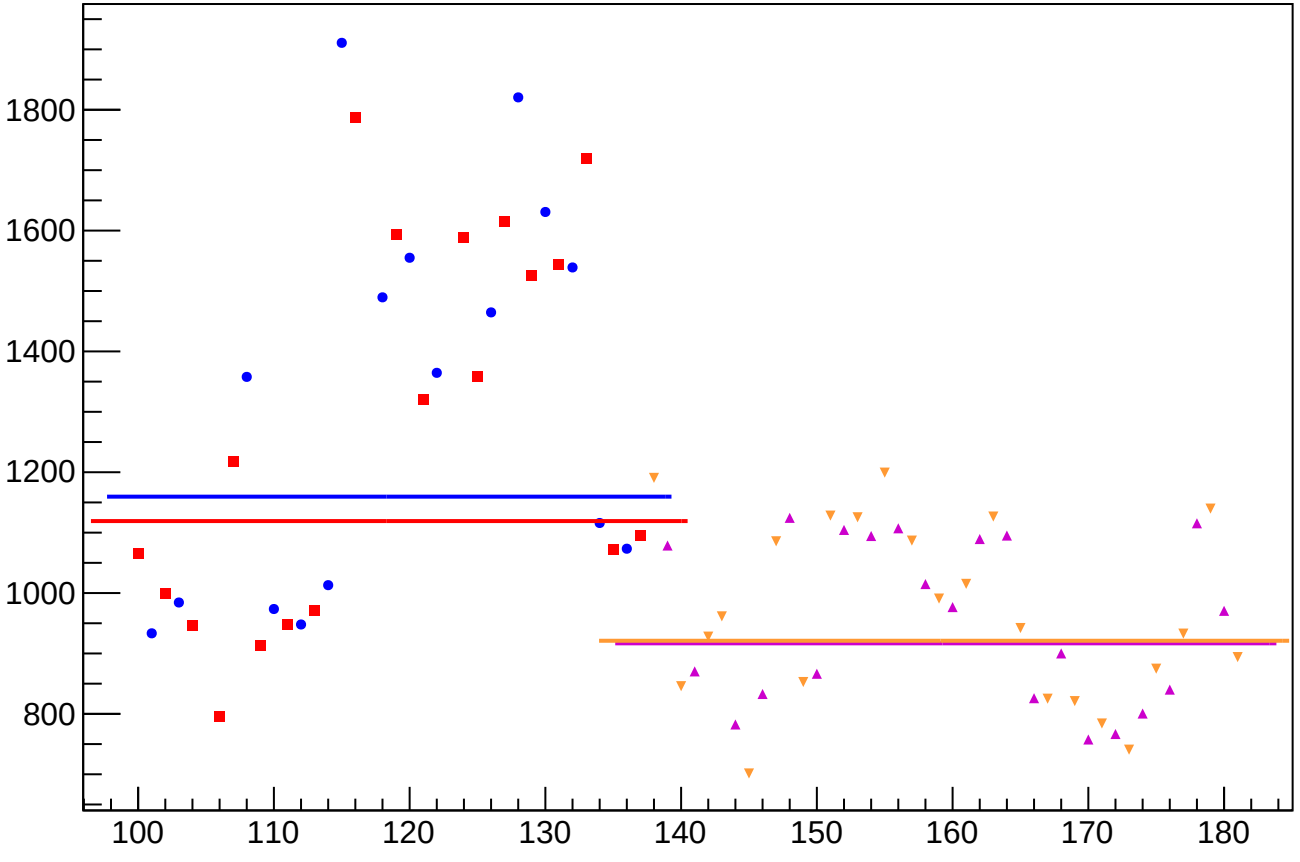
Right: 465.023+/-306.543 $\chi^2$/NDF: 38.8/34

In: 61.881+/-199.783 $\chi^2$/NDF:43.2/36

Out: -597.366+/-194.188 $\chi^2$/NDF:80.4/41

All: -277.101+/-139.248 $\chi^2$/NDF: 129.1/78

asym_sam_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1159.576+/-0.314 $\chi^2$/NDF: 683662.2/15

Left Out: 921.031+/-0.154 $\chi^2$/NDF:870196.4/22

Right Out: 1119.156+/-0.300 $\chi^2$/NDF: 803154.6/18

Left In: 916.763+/-0.158 $\chi^2$/NDF:664534.1/20

Left: 918.948+/-0.111 $\chi^2$/NDF: 1535103.1/43

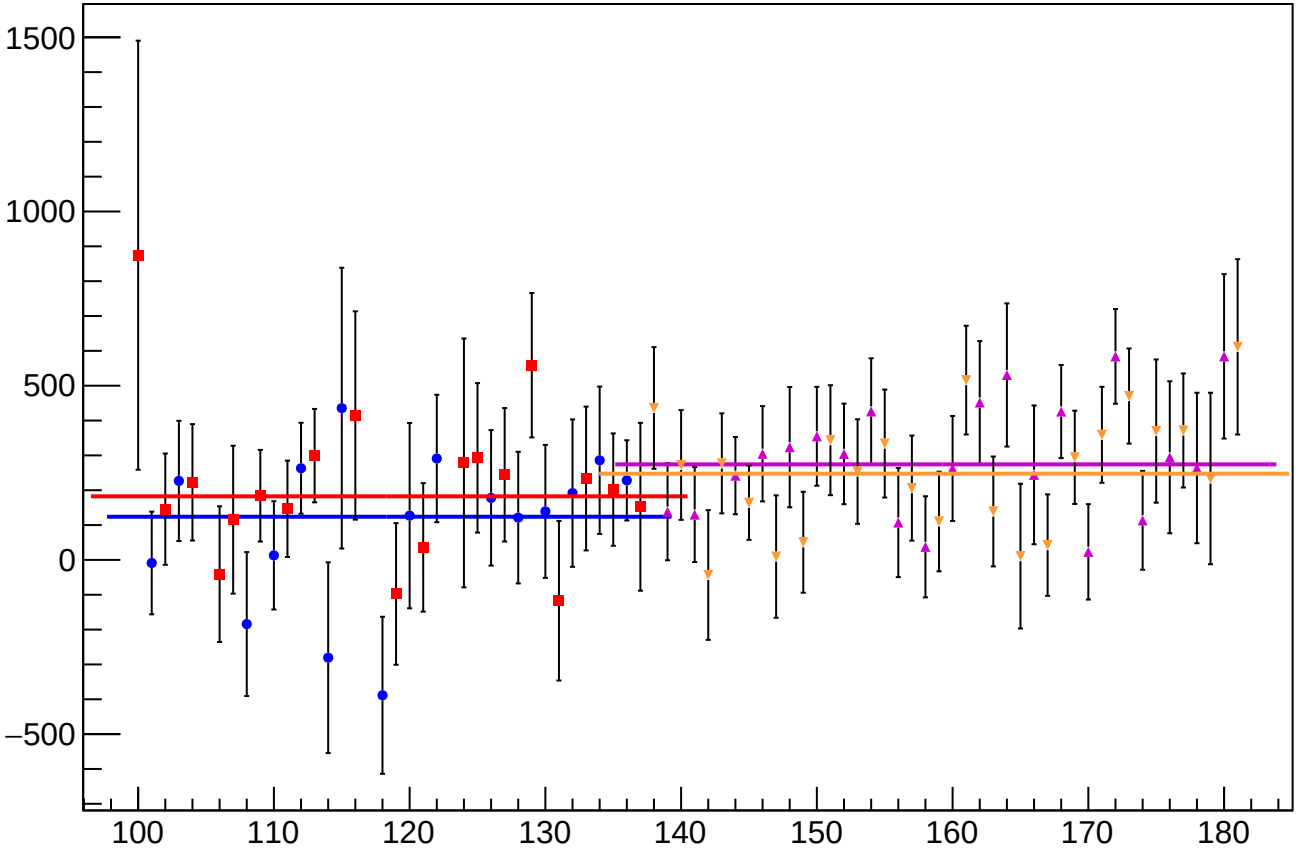
Right: 1138.426+/-0.217 $\chi^2$/NDF: 1495491.5/34

In: 965.932+/-0.141 $\chi^2$/NDF:1825296.3/36

Out: 962.633+/-0.137 $\chi^2$/NDF:2018712.7/41

All: 964.236+/-0.098 $\chi^2$/NDF: 3844289.4/78

# dit_asym_sam_48_dd_mean vs Slug, Sign Corrected




Right In: 123.892+/-45.238 $\chi^2$/NDF: 15.4/15

Left Out: 247.508+/-32.533 $\chi^2$/NDF:22.8/22

Right Out: 182.467+/-43.224 $\chi^2$/NDF: 12.3/18

Left In: 274.270+/-33.303 $\chi^2$/NDF:22.9/20

Left: 260.576+/-23.272 $\chi^2$/NDF: 46.1/43

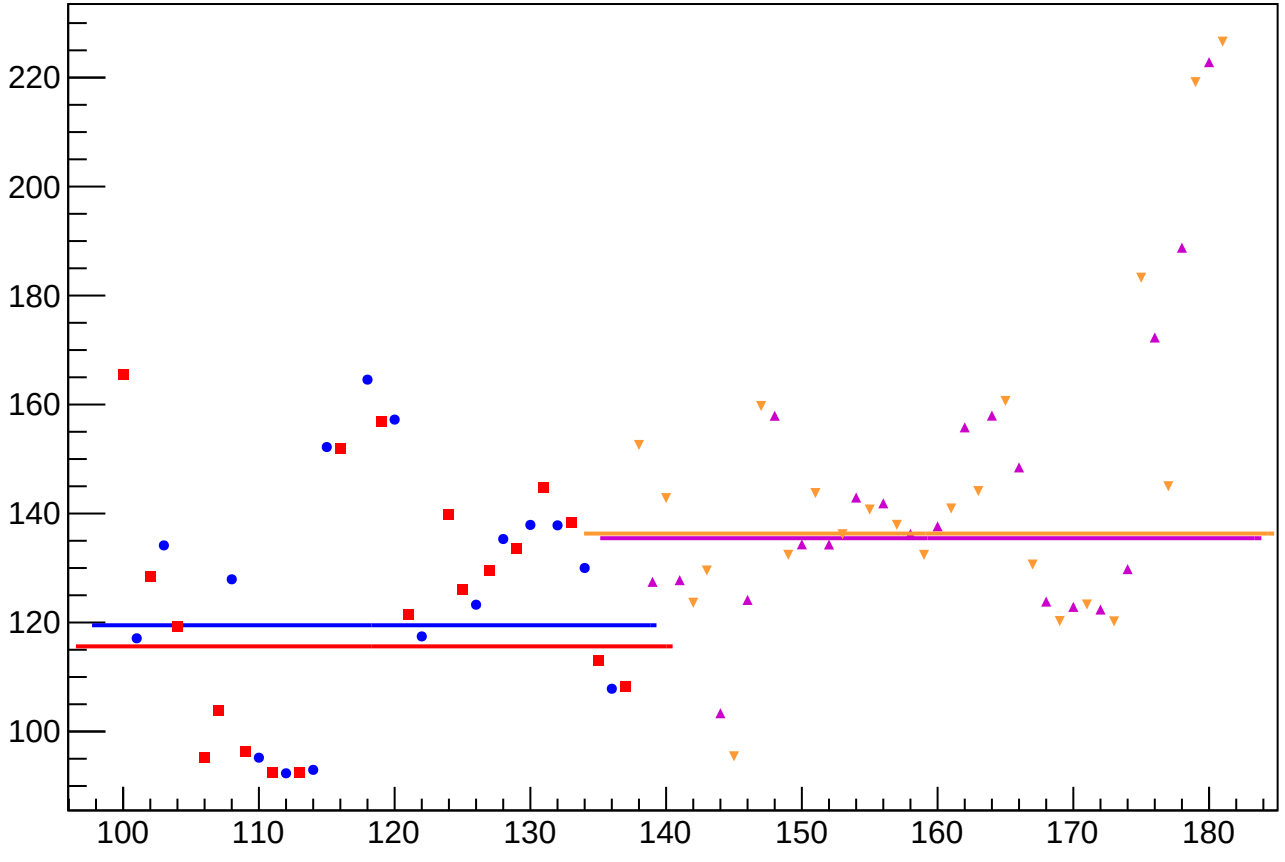
Right: 154.513+/-31.252 $\chi^2$/NDF: 28.6/34

In: 221.417+/-26.819 $\chi^2$/NDF:45.5/36

Out: 223.987+/-25.993 $\chi^2$/NDF:36.6/41

All: 222.742+/-18.665 $\chi^2$/NDF: 82.1/78

# dit_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 119.495+/-0.032 $\chi^2$/NDF: 380250.8/15

Left Out: 136.323+/-0.023 $\chi^2$/NDF:1079568.1/22

Right Out: 115.622+/-0.031 $\chi^2$/NDF: 426961.7/18

Left In: 135.469+/-0.024 $\chi^2$/NDF:803588.6/20

Left: 135.906+/-0.016 $\chi^2$/NDF: 1883828.4/43

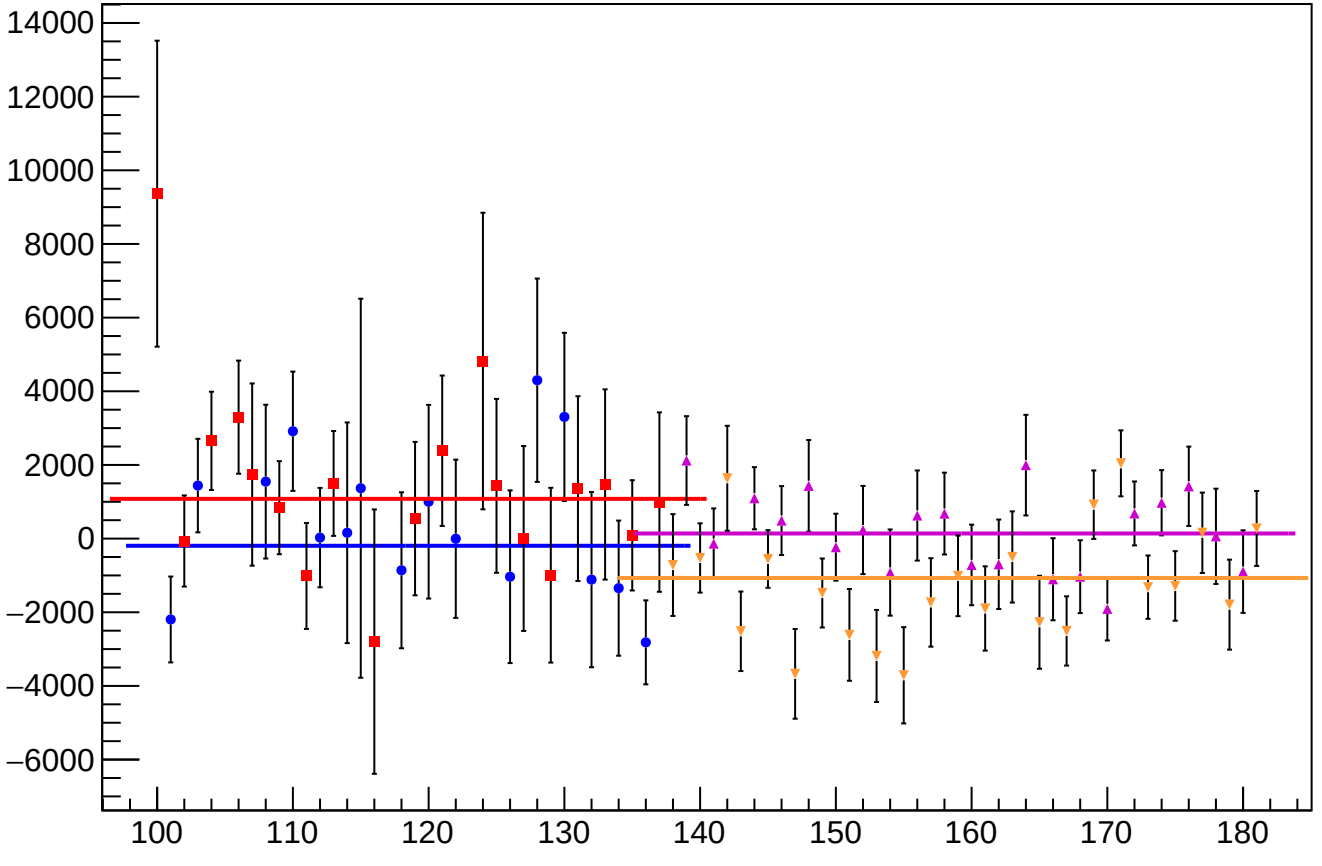
Right: 117.470+/-0.022 $\chi^2$/NDF: 814875.1/34

In: 129.855+/-0.019 $\chi^2$/NDF:1345582.4/36

Out: 128.837+/-0.018 $\chi^2$/NDF:1799364.7/41

All: 129.330+/-0.013 $\chi^2$/NDF: 3146433.7/78

asym_sam_48_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: -195.086+/-447.334 $\chi^2$/NDF: 20.4/15

Left Out: -1068.538+/-221.506 $\chi^2$/NDF:44.0/22

Right Out: 1079.393+/-425.950 $\chi^2$/NDF: 14.6/18

Left In: 139.154+/-228.288 $\chi^2$/NDF:21.5/20

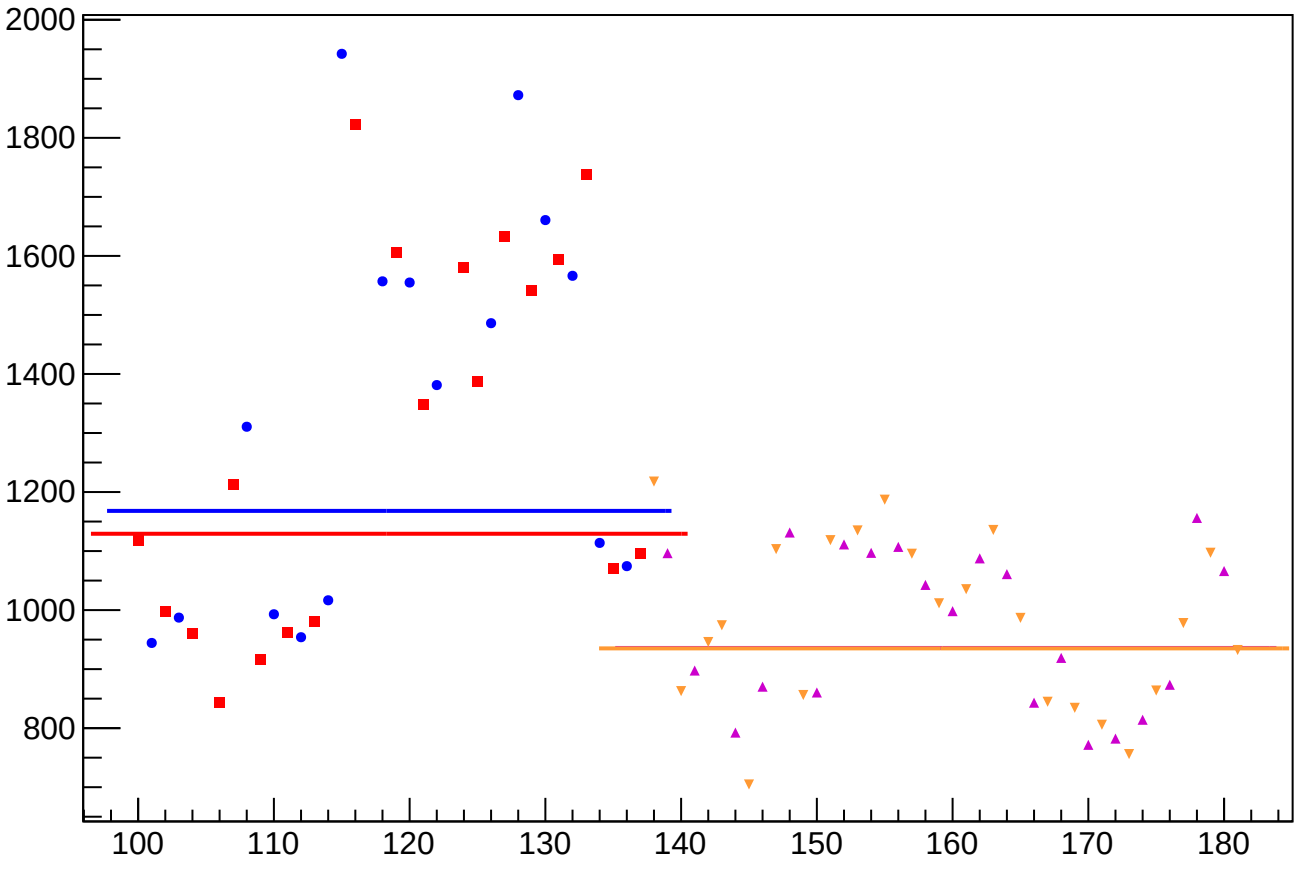
Left: -482.898+/-158.972 $\chi^2$/NDF: 79.9/43

Right: 473.342+/-308.475 $\chi^2$/NDF: 39.2/34

In: 70.092+/-203.340 $\chi^2$/NDF:42.3/36

Out: -611.319+/-196.522 $\chi^2$/NDF:78.6/41

All: -282.229+/-141.311 $\chi^2$/NDF: 126.7/78




Right In: 1168.063+/-0.316 $\chi^2$/NDF: 709363.8/15

Left Out: 935.140+/-0.157 $\chi^2$/NDF:829421.1/22

Right Out: 1129.316+/-0.301 $\chi^2$/NDF: 807222.5/18

Left In: 935.849+/-0.161 $\chi^2$/NDF:642100.7/20

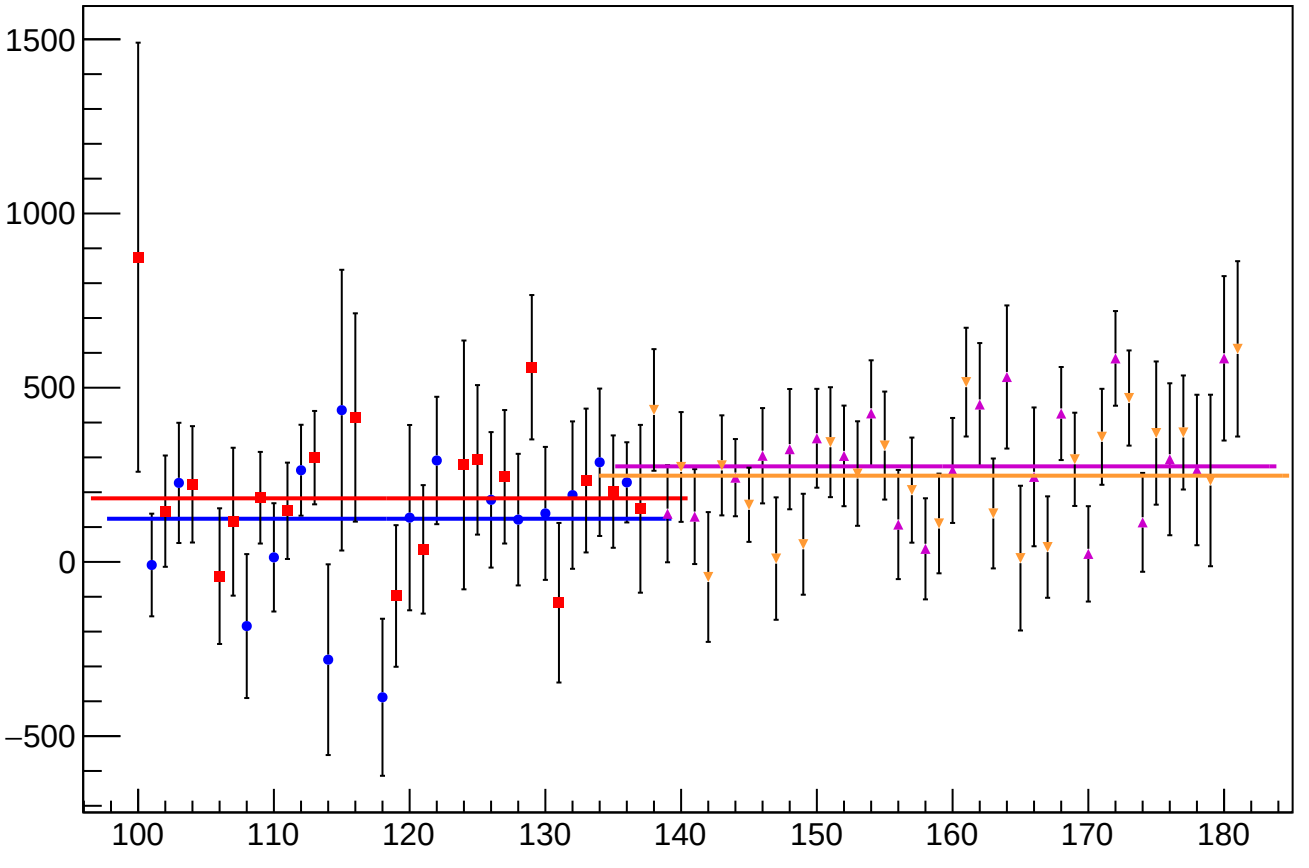
Left: 935.484+/-0.112 $\chi^2$/NDF: 1471531.7/43

Right: 1147.741+/-0.218 $\chi^2$/NDF: 1524455.8/34

In: 983.831+/-0.144 $\chi^2$/NDF:1779046.3/36

Out: 976.474+/-0.139 $\chi^2$/NDF:1963798.5/41

All: 980.027+/-0.100 $\chi^2$/NDF: 3744198.5/78




Right In: 123.895+/-45.238 $\chi^2$/NDF: 15.4/15

Left Out: 247.510+/-32.533 $\chi^2$/NDF:22.8/22

Right Out: 182.468+/-43.224 $\chi^2$/NDF: 12.3/18

Left In: 274.271+/-33.303 $\chi^2$/NDF:22.9/20

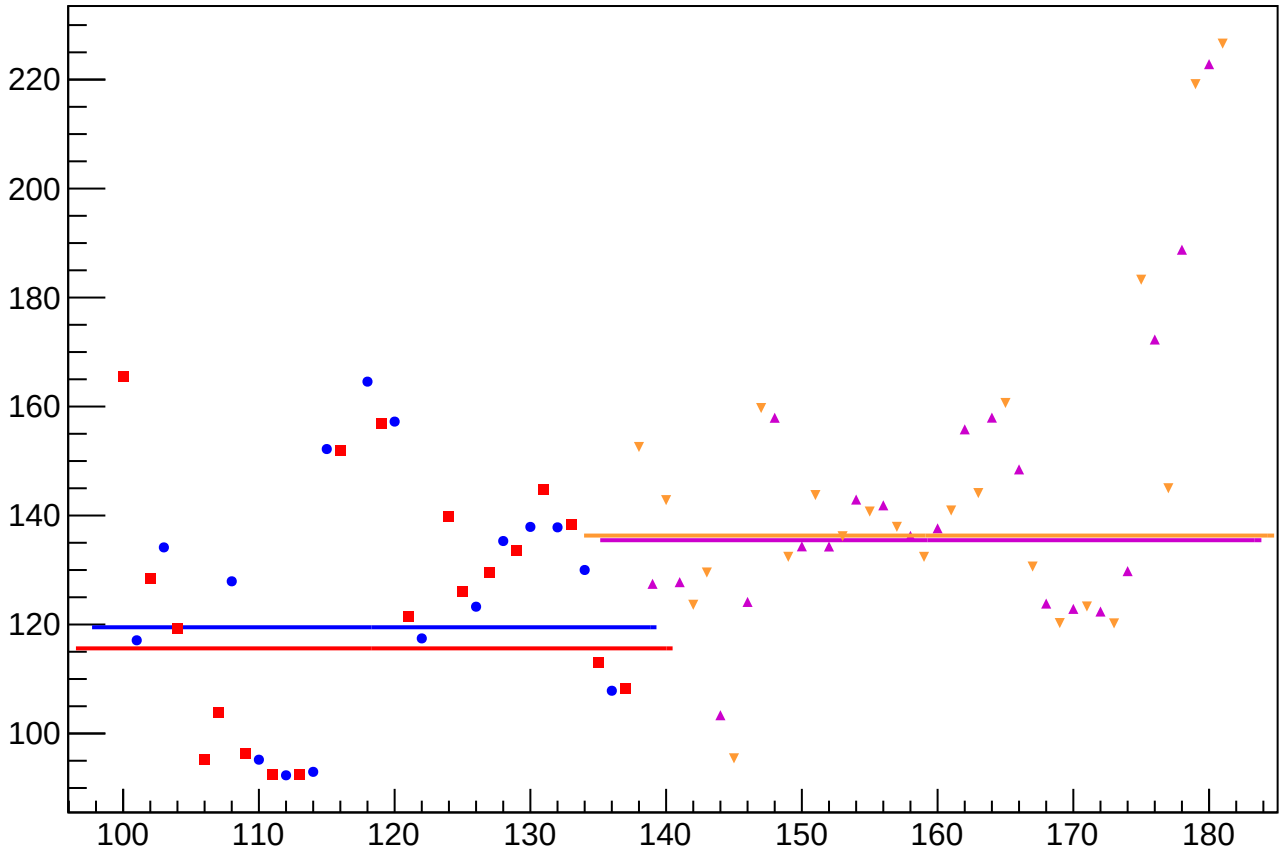
Left: 260.578+/-23.272 $\chi^2$/NDF: 46.1/43

Right: 154.514+/-31.252 $\chi^2$/NDF: 28.6/34

In: 221.419+/-26.819 $\chi^2$/NDF:45.5/36

Out: 223.989+/-25.993 $\chi^2$/NDF:36.6/41

All: 222.744+/-18.665 $\chi^2$/NDF: 82.1/78




Right In: 119.495+/-0.032 $\chi^2$/NDF: 380254.2/15

Left Out: 136.323+/-0.023 $\chi^2$/NDF:1079571.9/22

Right Out: 115.622+/-0.031 $\chi^2$/NDF: 426966.4/18

Left In: 135.469+/-0.024 $\chi^2$/NDF:803572.9/20

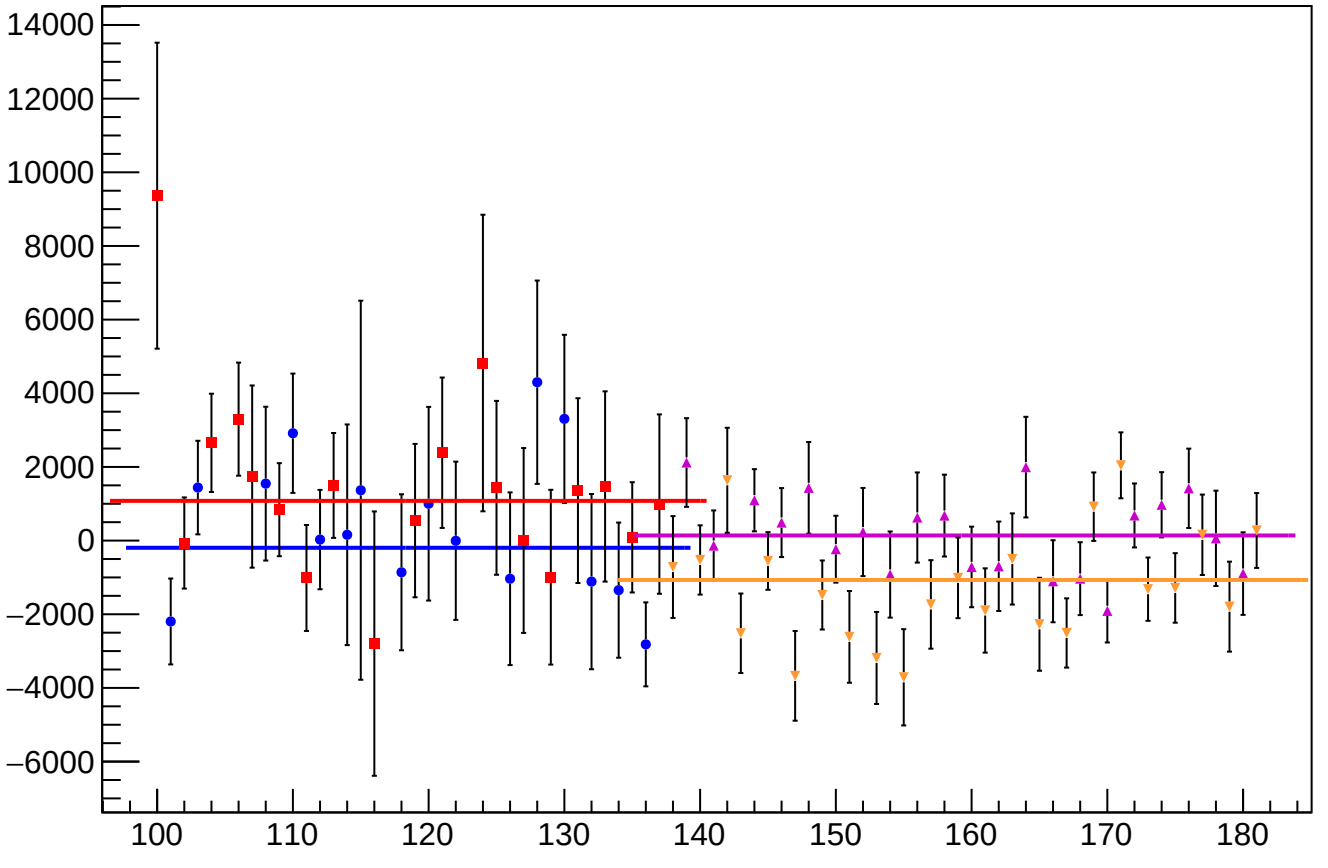
Left: 135.906+/-0.016 $\chi^2$/NDF: 1883816.5/43

Right: 117.470+/-0.022 $\chi^2$/NDF: 814883.4/34

In: 129.855+/-0.019 $\chi^2$/NDF:1345569.5/36

Out: 128.837+/-0.018 $\chi^2$/NDF:1799374.5/41

All: 129.330+/-0.013 $\chi^2$/NDF: 3146430.7/78




Right In: -195.085+/-447.334 $\chi^2$/NDF: 20.4/15

Left Out: -1068.536+/-221.506 $\chi^2$/NDF:44.0/22

Right Out: 1079.393+/-425.950 $\chi^2$/NDF: 14.6/18

Left In: 139.153+/-228.288 $\chi^2$/NDF:21.5/20

Left: -482.897+/-158.972 $\chi^2$/NDF: 79.9/43

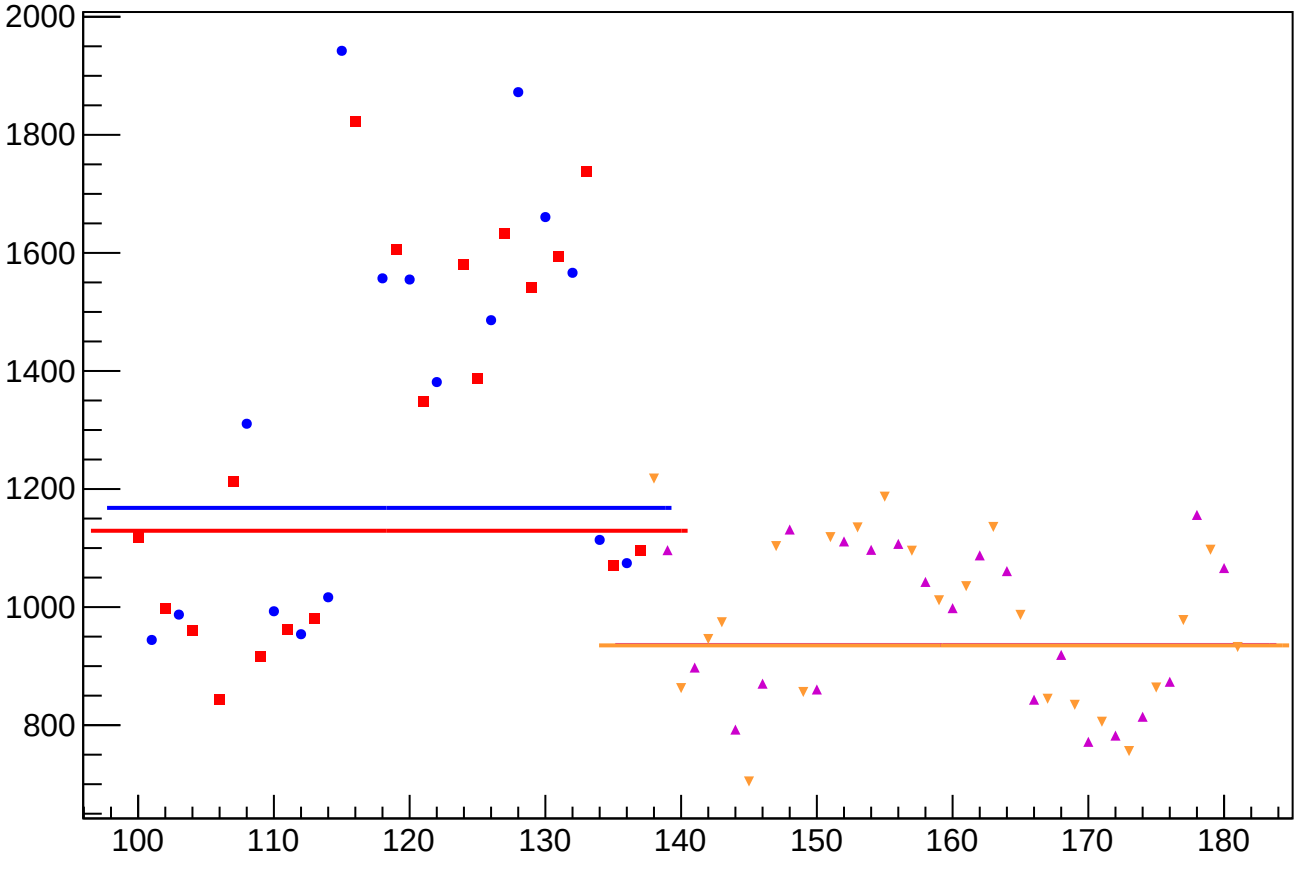
Right: 473.342+/-308.475 $\chi^2$/NDF: 39.2/34

In: 70.091+/-203.340 $\chi^2$/NDF:42.3/36

Out: -611.318+/-196.522 $\chi^2$/NDF:78.6/41

All: -282.229+/-141.311 $\chi^2$/NDF: 126.7/78

asym_sam_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1168.063+/-0.316 $\chi^2$/NDF: 709365.6/15

Left Out: 935.139+/-0.157 $\chi^2$/NDF:829423.6/22

Right Out: 1129.316+/-0.301 $\chi^2$/NDF: 807224.0/18

Left In: 935.848+/-0.161 $\chi^2$/NDF:642099.1/20

Left: 935.483+/-0.112 $\chi^2$/NDF: 1471532.7/43

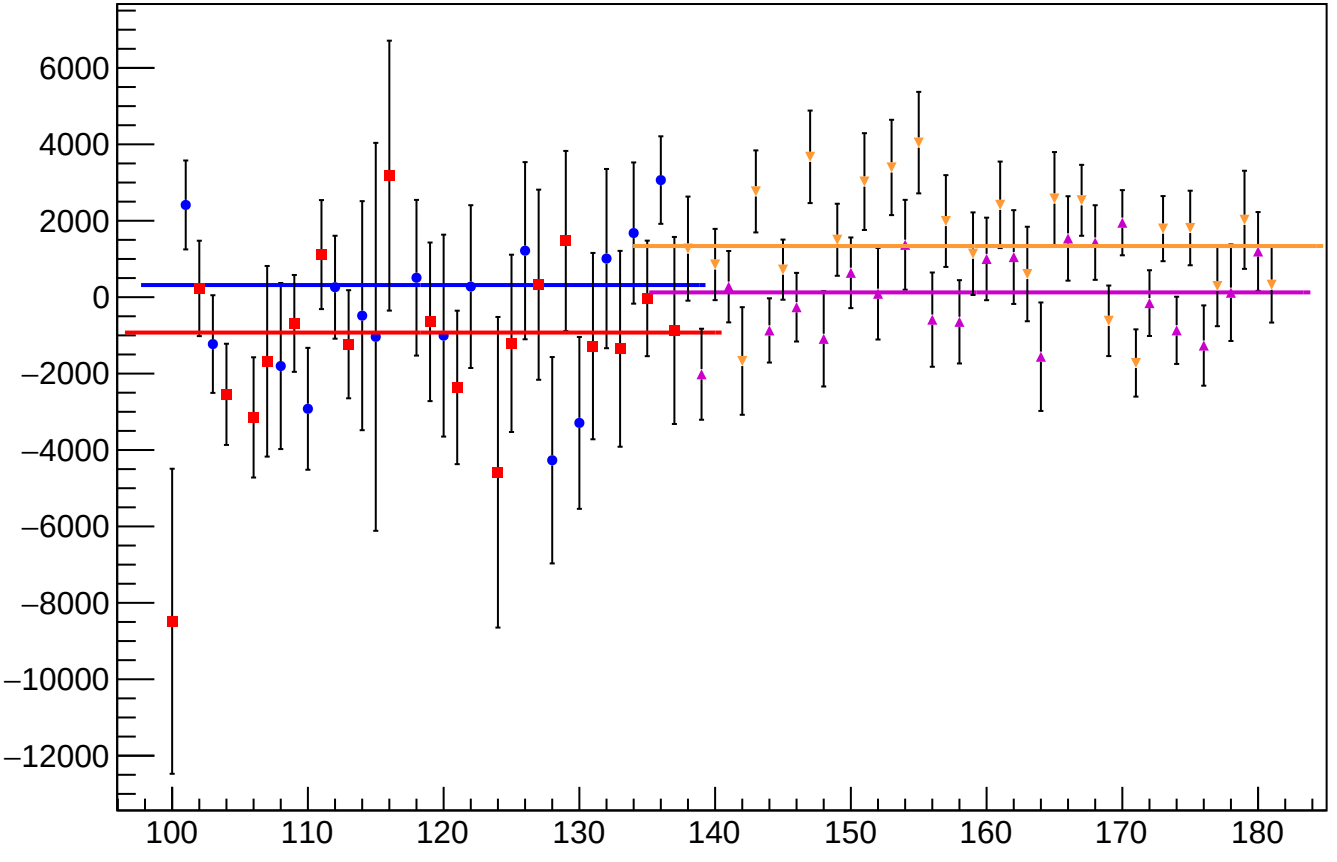
Right: 1147.741+/-0.218 $\chi^2$/NDF: 1524459.2/34

In: 983.830+/-0.144 $\chi^2$/NDF:1779050.2/36

Out: 976.473+/-0.139 $\chi^2$/NDF:1963805.6/41

All: 980.026+/-0.100 $\chi^2$/NDF: 3744209.5/78

# asym_sam_48_dd_mean vs Slug, Sign Corrected




Right In: 317.365+/-446.341 $\chi^2$/NDF: 22.2/15

Left Out: 1338.479+/-220.535 $\chi^2$/NDF:43.3/22

Right Out: -926.036+/-425.405 $\chi^2$/NDF: 14.5/18

Left In: 125.025+/-225.814 $\chi^2$/NDF:22.9/20

Left: 746.100+/-157.775 $\chi^2$/NDF: 81.0/43

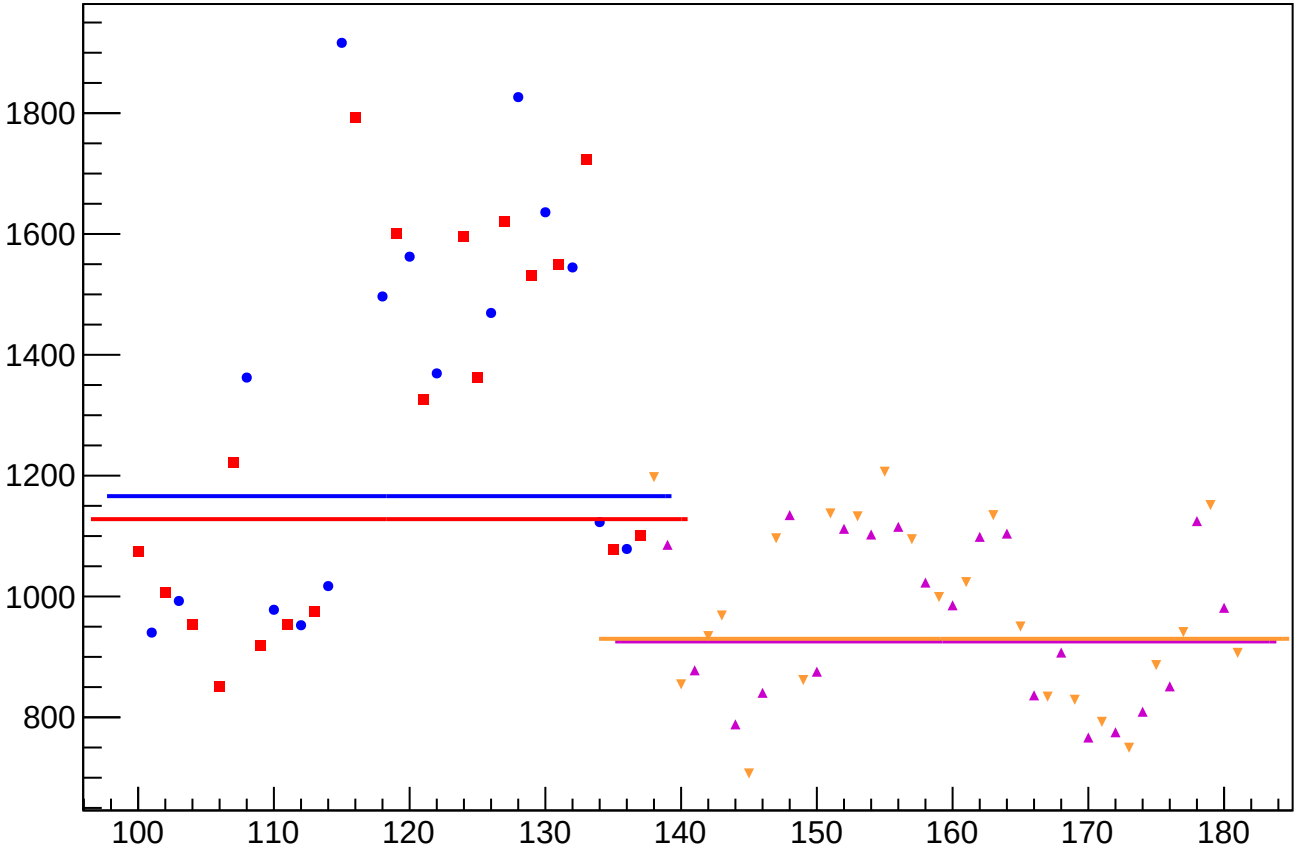
Right: -334.180+/-307.942 $\chi^2$/NDF: 40.8/34

In: 164.222+/-201.494 $\chi^2$/NDF:45.2/36

Out: 858.801+/-195.790 $\chi^2$/NDF:80.2/41

All: 521.483+/-140.418 $\chi^2$/NDF: 131.5/78

# asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 1166.056+/-0.316 $\chi^2$/NDF: 677063.1/15

Left Out: 929.941+/-0.156 $\chi^2$/NDF:857900.8/22

Right Out: 1128.006+/-0.301 $\chi^2$/NDF: 775766.7/18

Left In: 925.564+/-0.160 $\chi^2$/NDF:654116.4/20

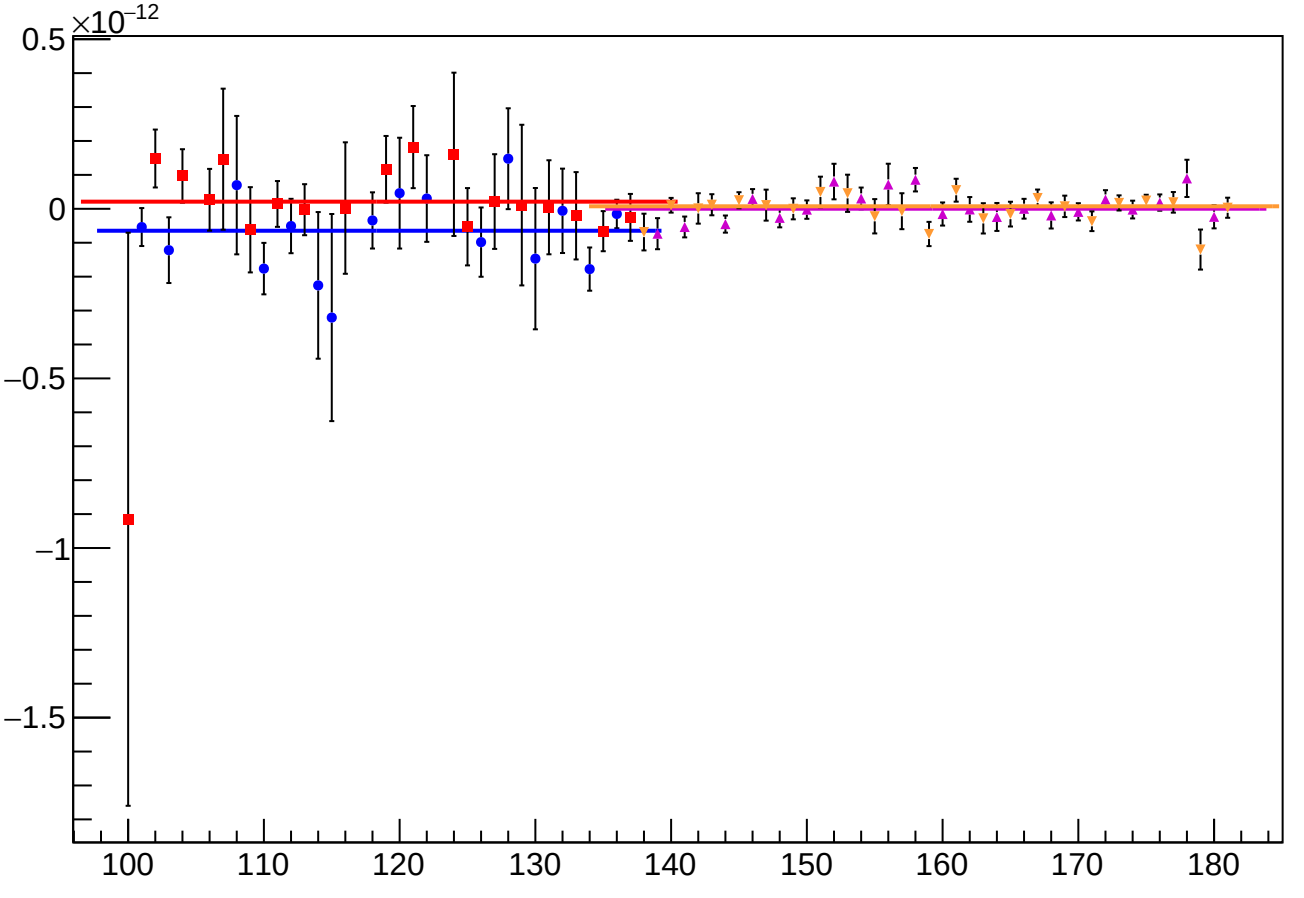
Left: 927.805+/-0.112 $\chi^2$/NDF: 1512401.8/43

Right: 1146.118+/-0.218 $\chi^2$/NDF: 1460446.1/34

In: 974.575+/-0.142 $\chi^2$/NDF:1793480.6/36

Out: 971.896+/-0.138 $\chi^2$/NDF:1975382.8/41

All: 973.197+/-0.099 $\chi^2$/NDF: 3769045.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.2/20

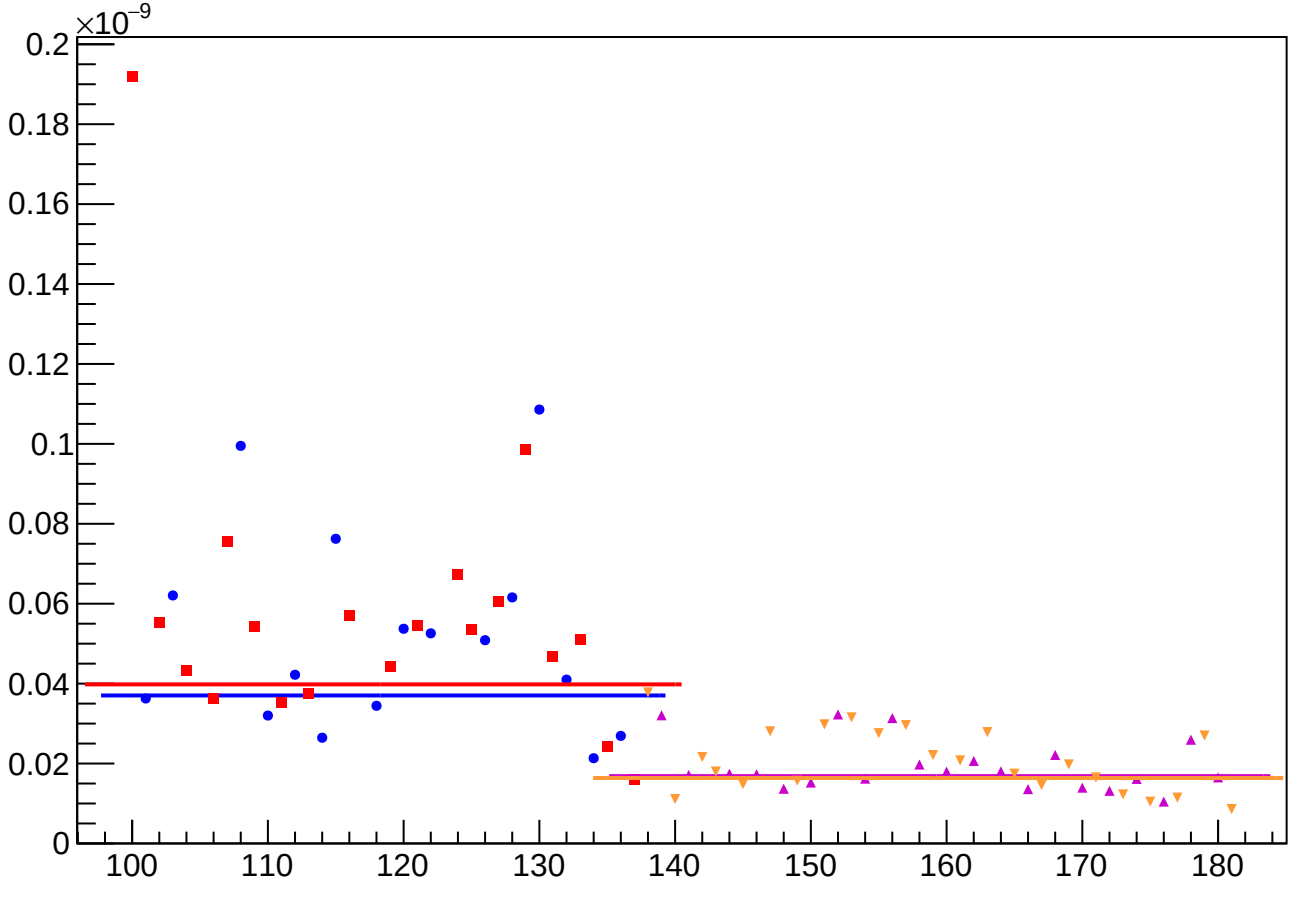
Left: 0.000+/-0.000 $\chi^2$/NDF: 49.6/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:47.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:33.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 83.8/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 995390.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1967071.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 903728.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:903897.6/20

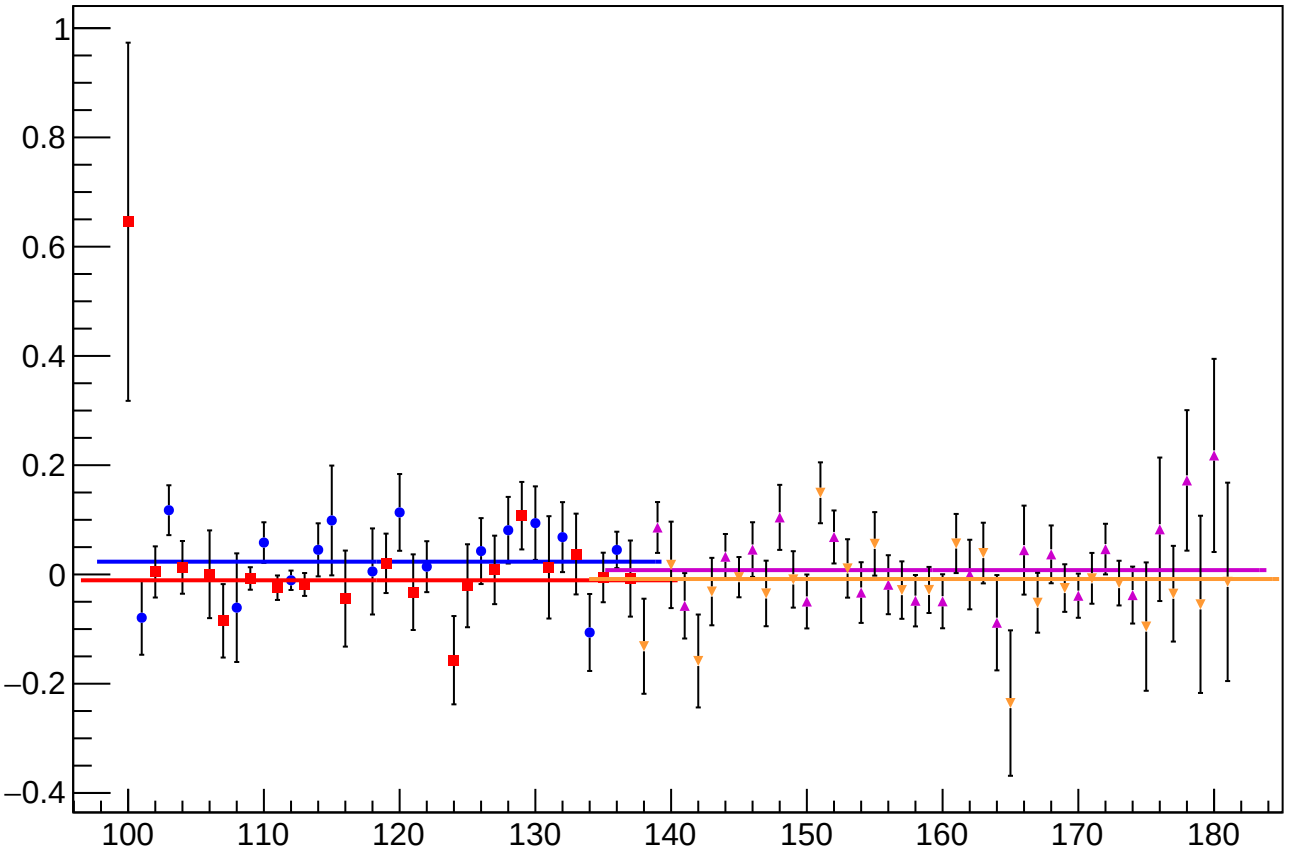
Left: 0.000+/-0.000 $\chi^2$/NDF: 2875839.8/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 1914342.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:3451694.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4774556.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8234746.4/78




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.008+/-0.012 $\chi^2$/NDF:21.9/22

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.008+/-0.012 $\chi^2$/NDF:21.9/20

Left: -0.000+/-0.009 $\chi^2$/NDF: 44.7/43

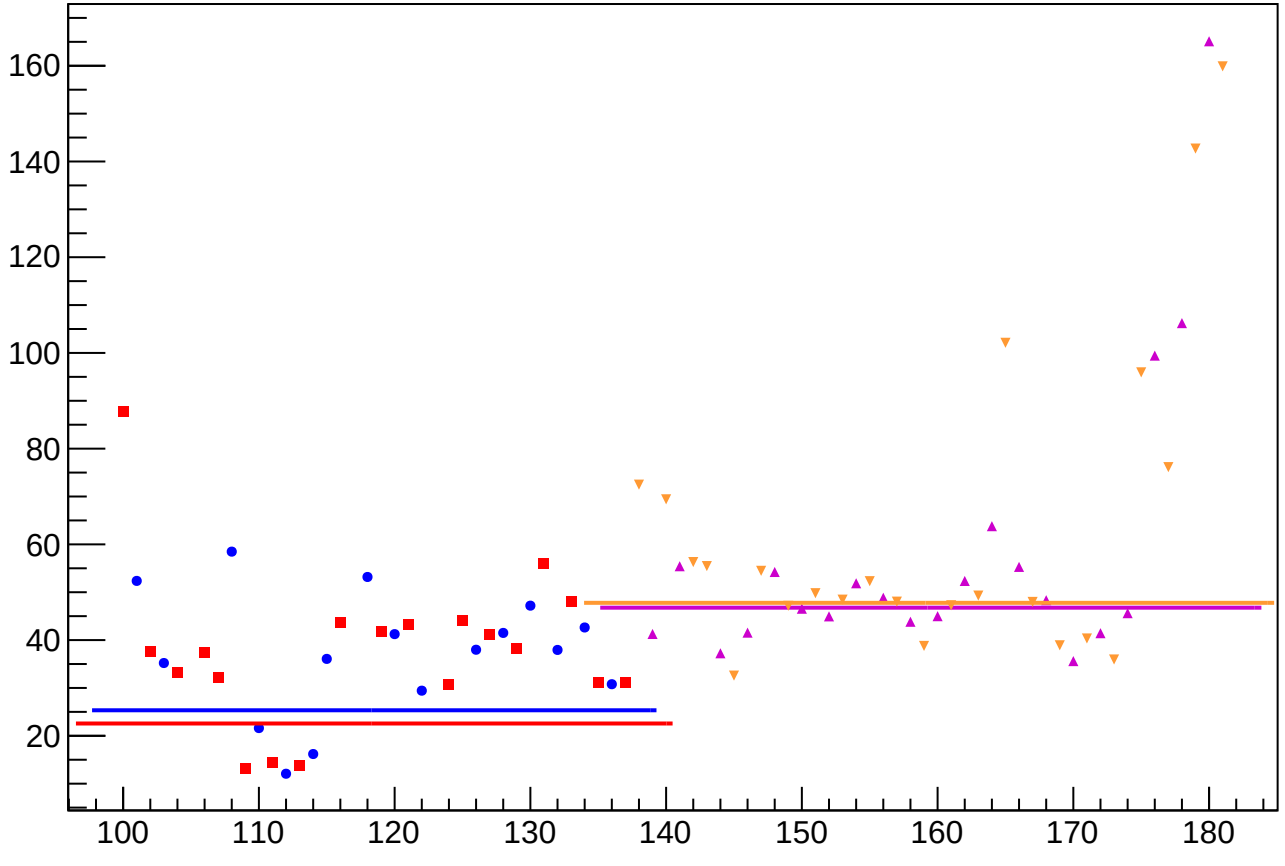
Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.016+/-0.008 $\chi^2$/NDF:43.5/36

Out: -0.010+/-0.008 $\chi^2$/NDF:36.2/41

All: 0.002+/-0.006 $\chi^2$/NDF: 85.2/78

asym_sam_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.334+/-0.008 $\chi^2$/NDF: 2925132.2/15

Left Out: 47.786+/-0.009 $\chi^2$/NDF:3462498.5/22

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3139937.1/18

Left In: 46.771+/-0.009 $\chi^2$/NDF:2201629.2/20

Left: 47.280+/-0.006 $\chi^2$/NDF: 5671201.4/43

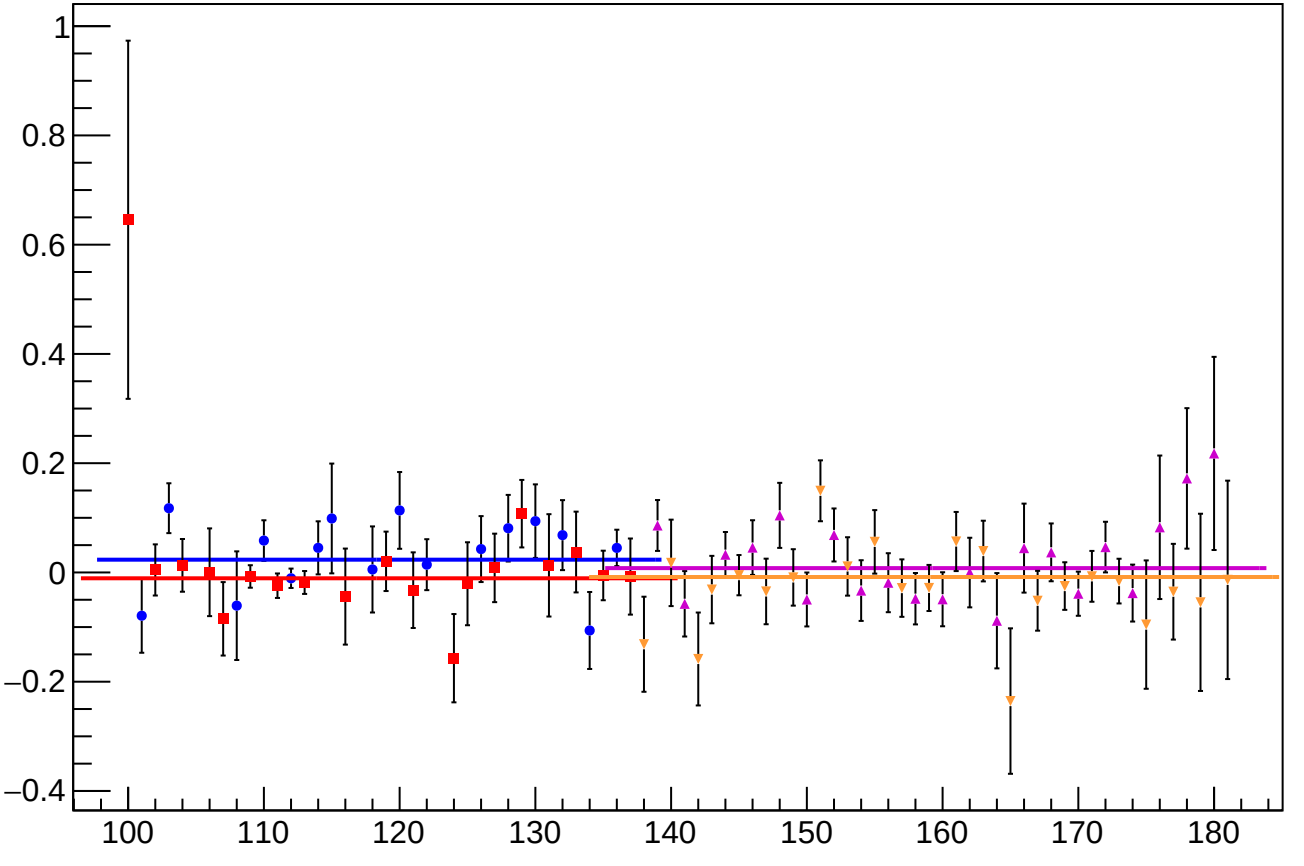
Right: 23.786+/-0.005 $\chi^2$/NDF: 6134886.6/34

In: 35.113+/-0.006 $\chi^2$/NDF:8548854.1/36

Out: 32.612+/-0.005 $\chi^2$/NDF:11872576.4/41

All: 33.774+/-0.004 $\chi^2$/NDF: 20521907.5/78

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.008+/-0.012 $\chi^2$/NDF:21.9/22

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.008+/-0.012 $\chi^2$/NDF:21.9/20

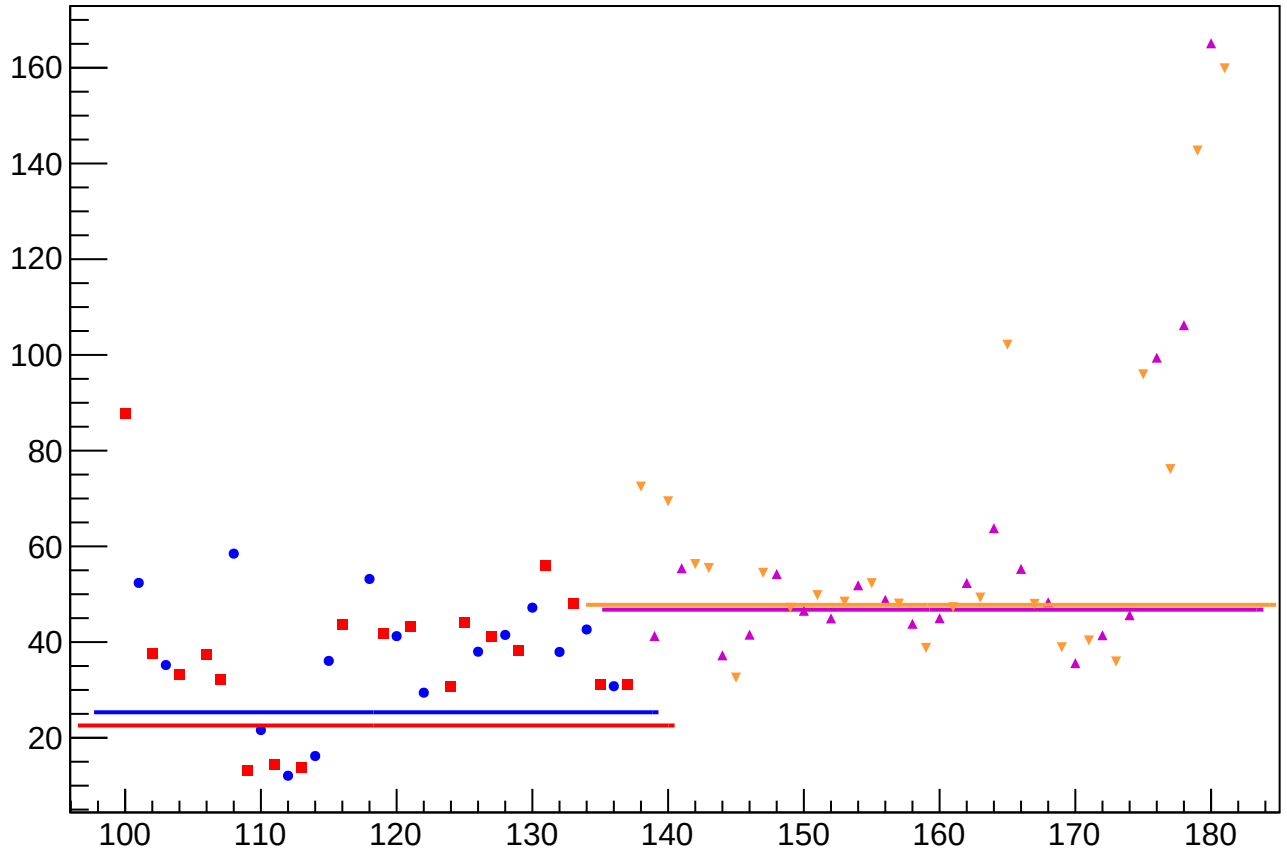
Left: -0.000+/-0.009 $\chi^2$/NDF: 44.7/43

Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.016+/-0.008 $\chi^2$/NDF:43.5/36

Out: -0.010+/-0.008 $\chi^2$/NDF:36.2/41

All: 0.002+/-0.006 $\chi^2$/NDF: 85.2/78




Right In: 25.334+/-0.008 $\chi^2$/NDF: 2925132.2/15

Left Out: 47.786+/-0.009 $\chi^2$/NDF:3462498.5/22

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3139937.1/18

Left In: 46.771+/-0.009 $\chi^2$/NDF:2201629.2/20

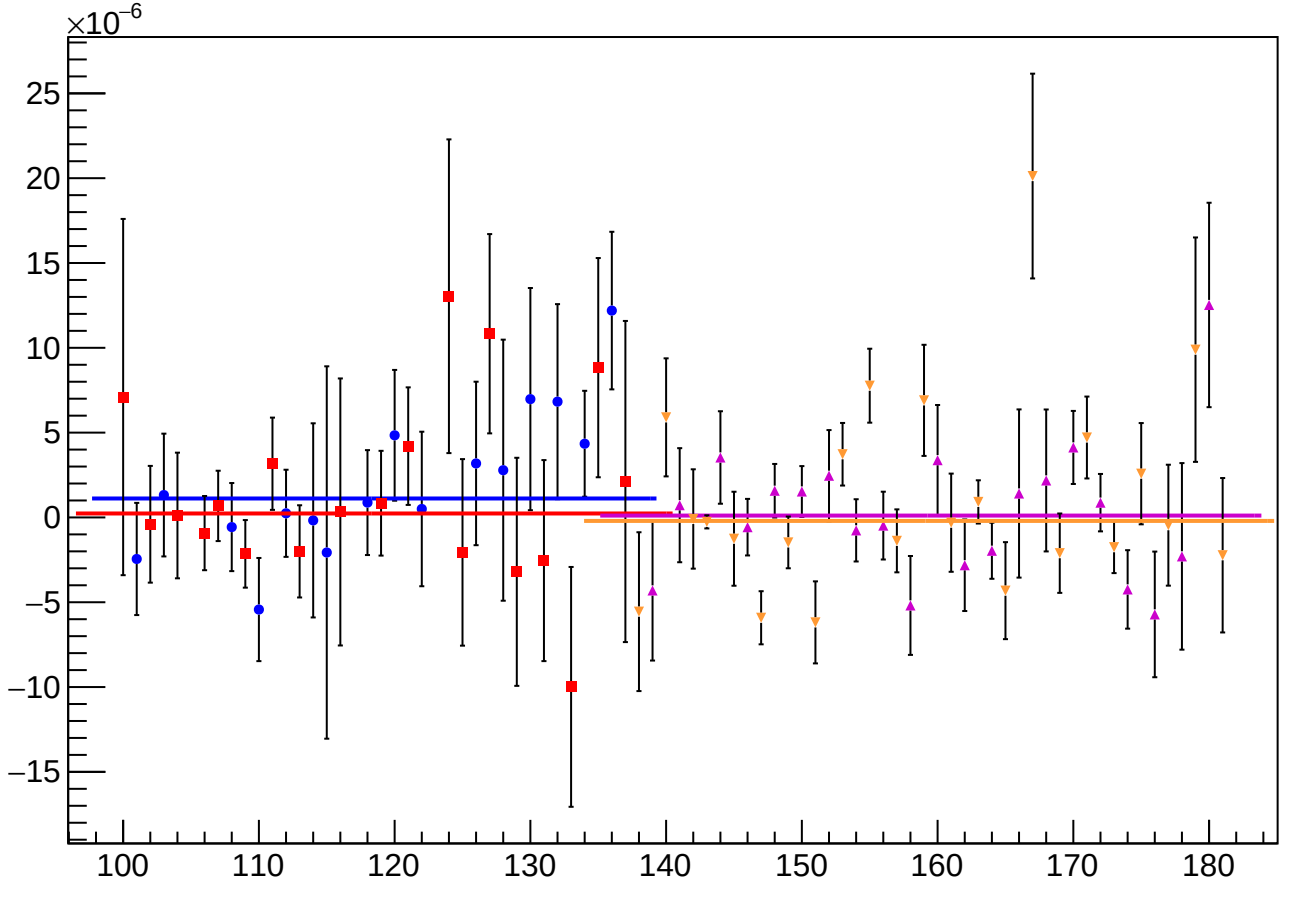
Left: 47.280+/-0.006 $\chi^2$/NDF: 5671201.4/43

Right: 23.786+/-0.005 $\chi^2$/NDF: 6134886.6/34

In: 35.113+/-0.006 $\chi^2$/NDF:8548854.1/36

Out: 32.612+/-0.005 $\chi^2$/NDF:11872576.4/41

All: 33.774+/-0.004 $\chi^2$/NDF: 20521907.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:71.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.3/20

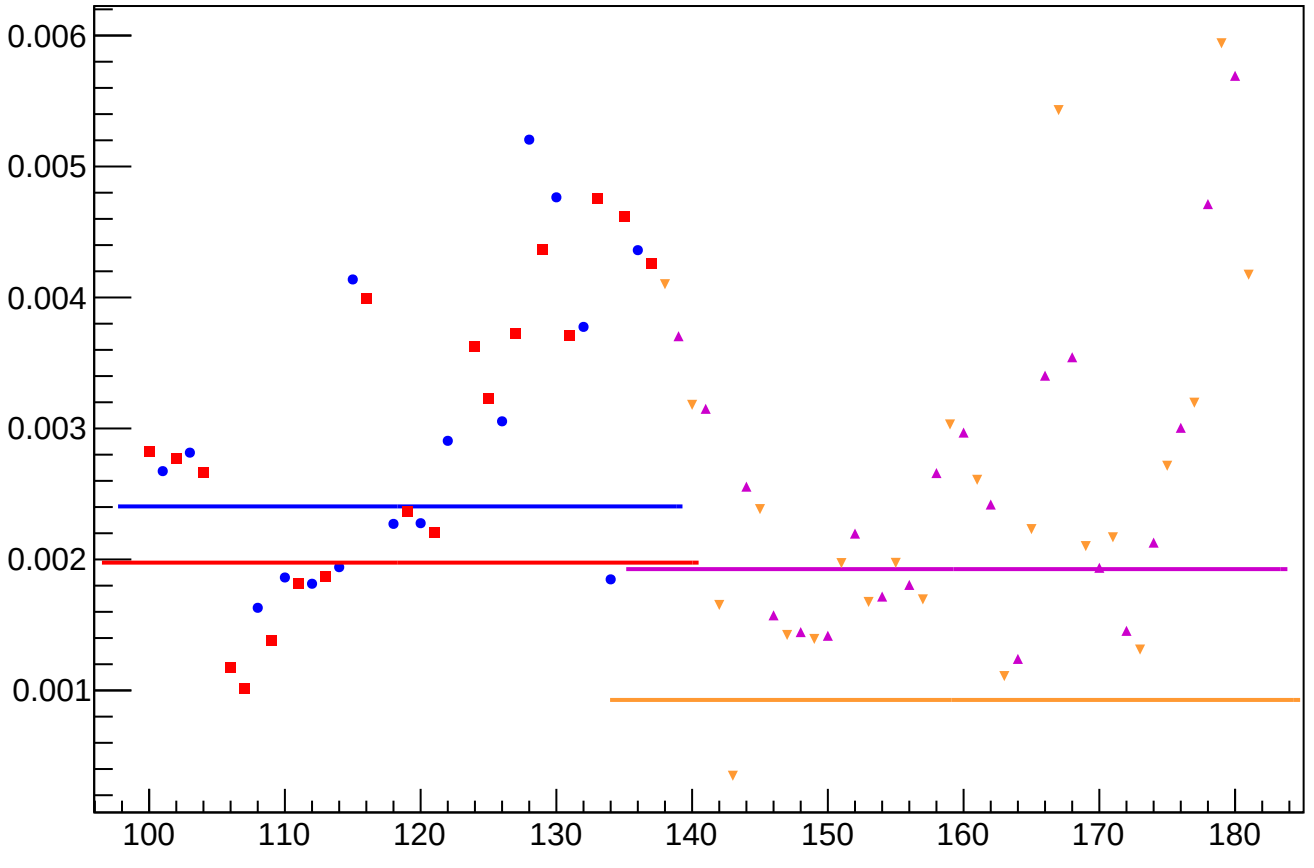
Left: -0.000+/-0.000 $\chi^2$/NDF: 98.7/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:44.3/36

Out: -0.000+/-0.000 $\chi^2$/NDF:86.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 131.7/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1571983.6/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:16743212.9/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2775363.3/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:4155329.4/20

Left: 0.001+/-0.000 $\chi^2$/NDF: 26599946.0/43

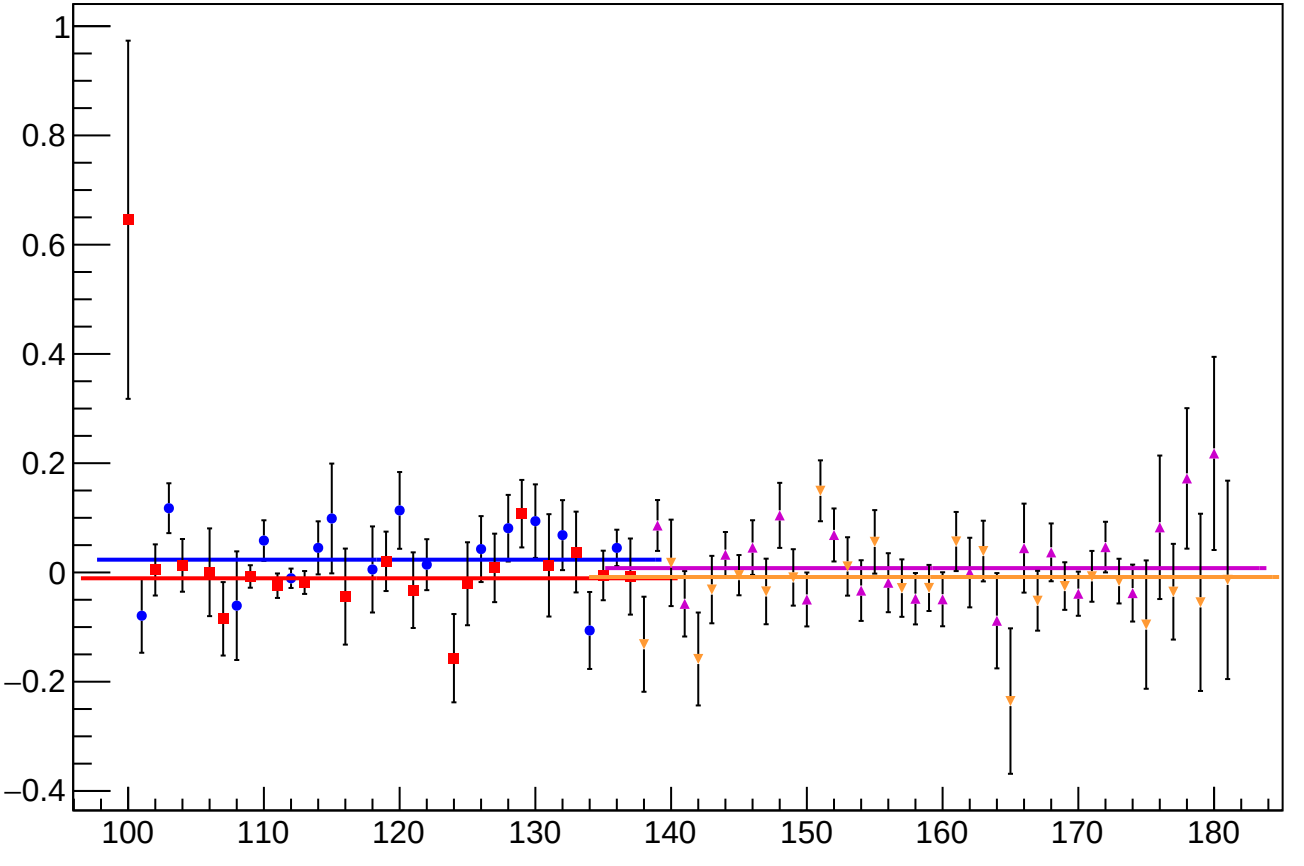
Right: 0.002+/-0.000 $\chi^2$/NDF: 4581712.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:6119175.8/36

Out: 0.001+/-0.000 $\chi^2$/NDF:22441313.6/41

All: 0.001+/-0.000 $\chi^2$/NDF: 35332641.2/78

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.008+/-0.012 $\chi^2$/NDF:21.9/22

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.008+/-0.012 $\chi^2$/NDF:21.9/20

Left: -0.000+/-0.009 $\chi^2$/NDF: 44.7/43

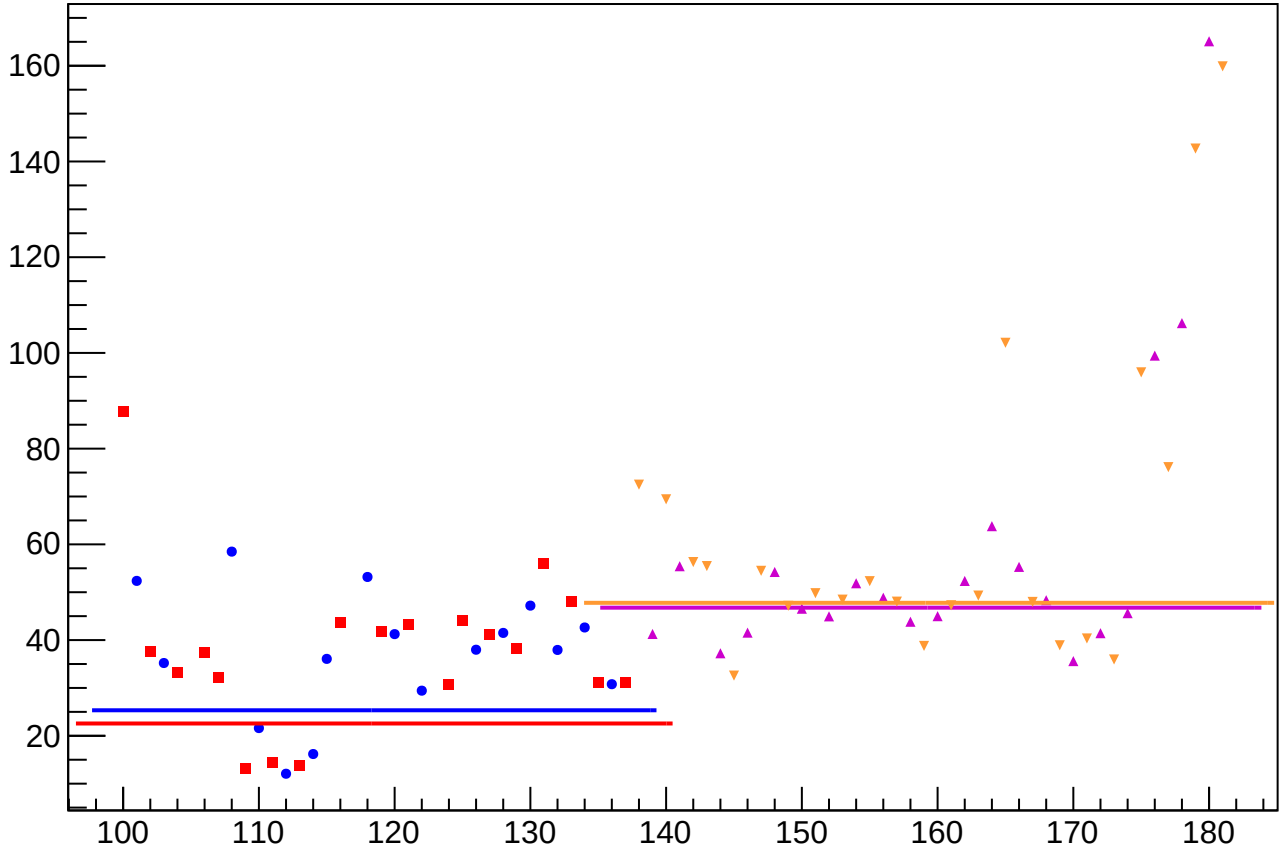
Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.016+/-0.008 $\chi^2$/NDF:43.5/36

Out: -0.010+/-0.008 $\chi^2$/NDF:36.2/41

All: 0.002+/-0.006 $\chi^2$/NDF: 85.2/78

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.332+/-0.008 $\chi^2$/NDF: 2925549.0/15

Left Out: 47.787+/-0.009 $\chi^2$/NDF:3462463.3/22

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3140082.3/18

Left In: 46.772+/-0.009 $\chi^2$/NDF:2201582.8/20

Left: 47.281+/-0.006 $\chi^2$/NDF: 5671119.8/43

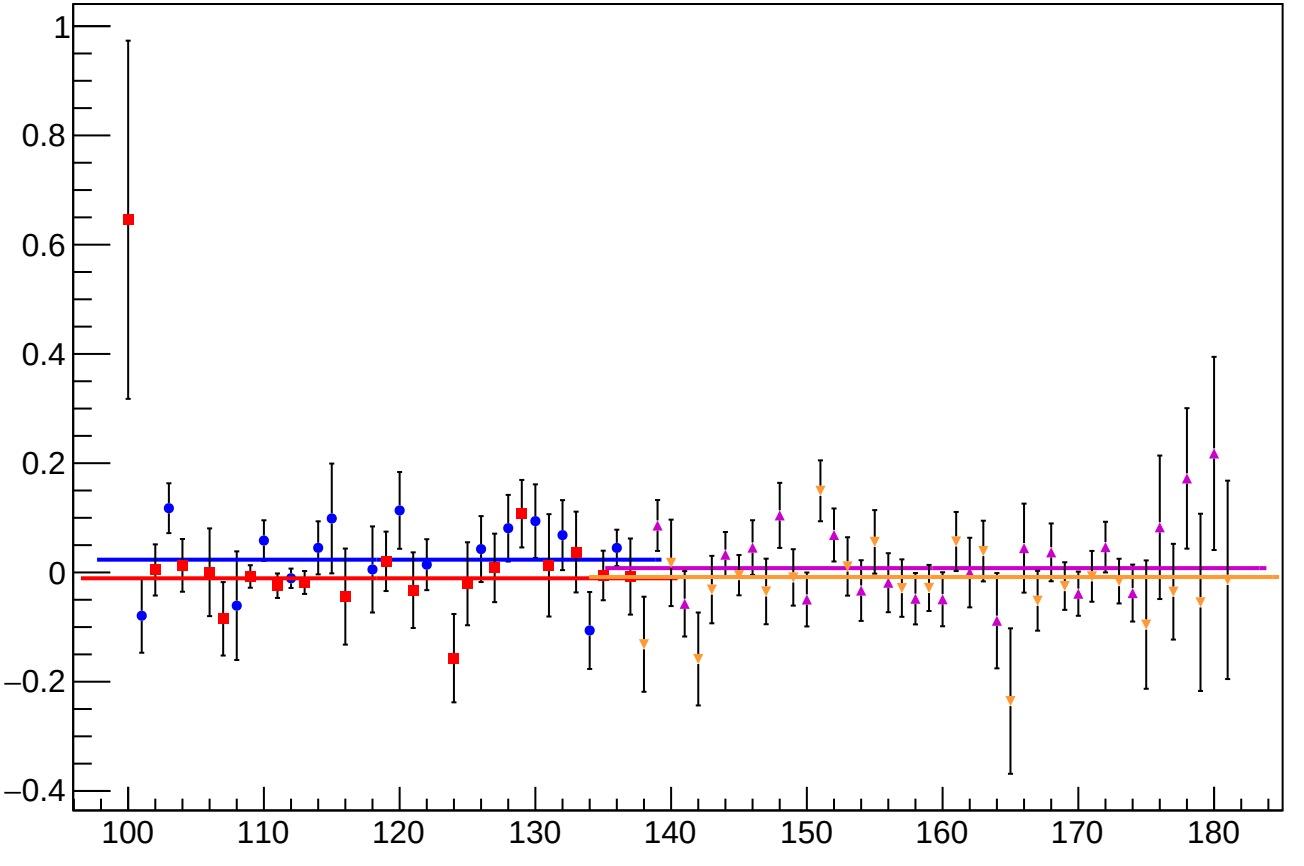
Right: 23.785+/-0.005 $\chi^2$/NDF: 6135400.4/34

In: 35.112+/-0.006 $\chi^2$/NDF:8549807.9/36

Out: 32.612+/-0.005 $\chi^2$/NDF:11872927.7/41

All: 33.773+/-0.004 $\chi^2$/NDF: 20523155.7/78

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.008+/-0.012 $\chi^2$/NDF:21.9/22

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.008+/-0.012 $\chi^2$/NDF:21.9/20

Left: -0.000+/-0.009 $\chi^2$/NDF: 44.7/43

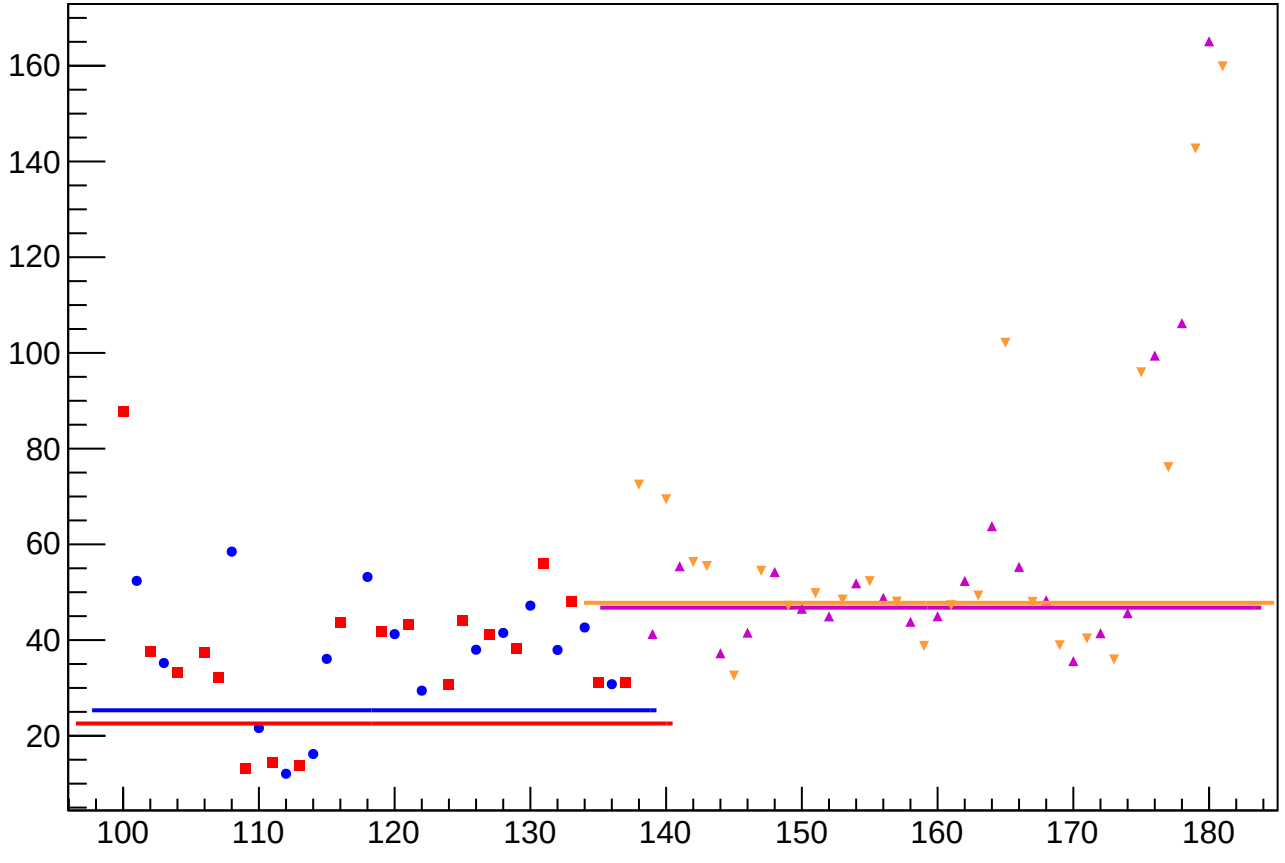
Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.016+/-0.008 $\chi^2$/NDF:43.5/36

Out: -0.010+/-0.008 $\chi^2$/NDF:36.2/41

All: 0.002+/-0.006 $\chi^2$/NDF: 85.2/78

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.332+/-0.008 $\chi^2$/NDF: 2925549.0/15

Left Out: 47.787+/-0.009 $\chi^2$/NDF:3462463.3/22

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3140082.3/18

Left In: 46.772+/-0.009 $\chi^2$/NDF:2201582.8/20

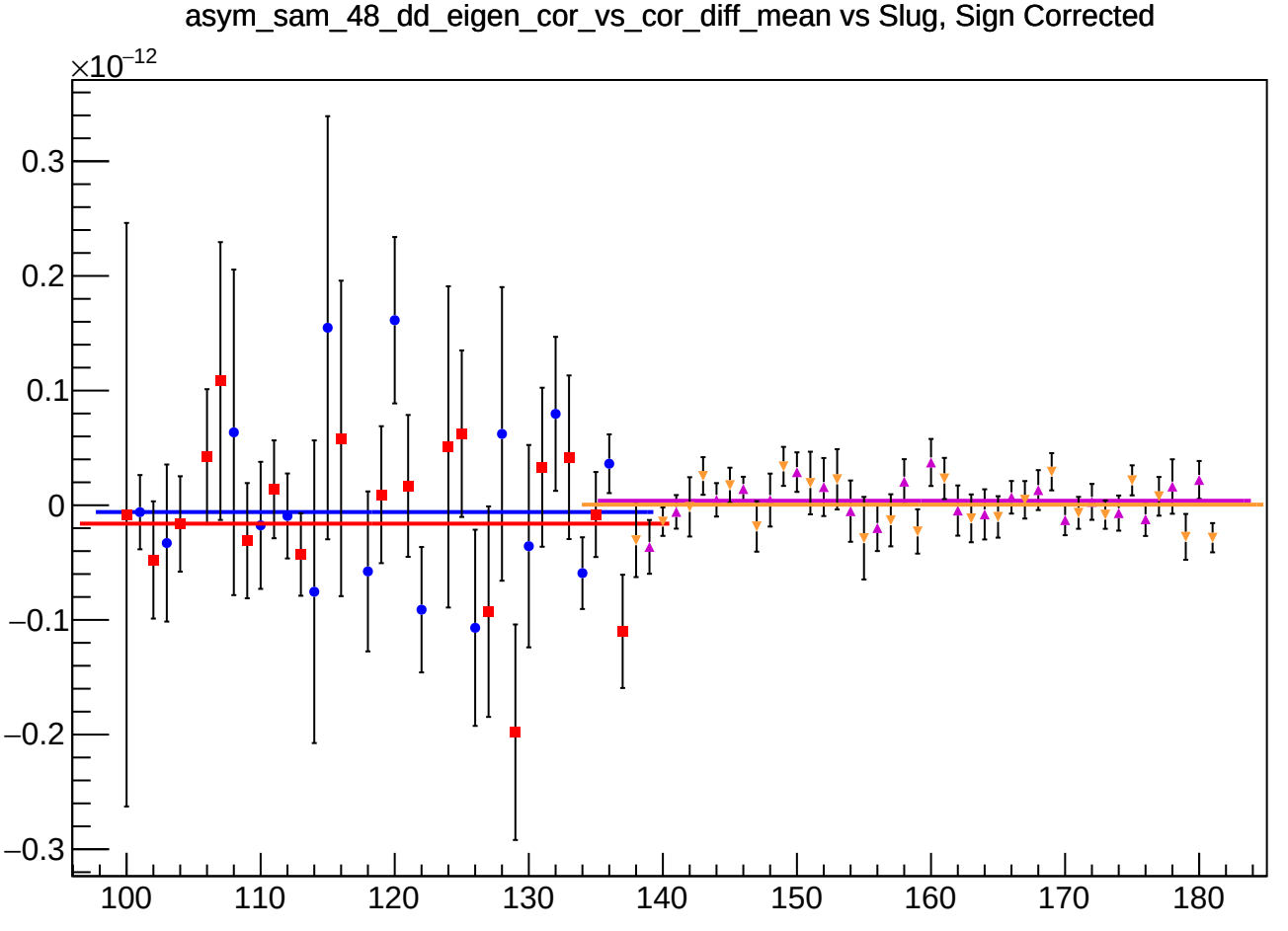
Left: 47.281+/-0.006 $\chi^2$/NDF: 5671119.8/43

Right: 23.785+/-0.005 $\chi^2$/NDF: 6135400.4/34

In: 35.112+/-0.006 $\chi^2$/NDF:8549807.9/36

Out: 32.612+/-0.005 $\chi^2$/NDF:11872927.7/41

All: 33.773+/-0.004 $\chi^2$/NDF: 20523155.7/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:30.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.1/20

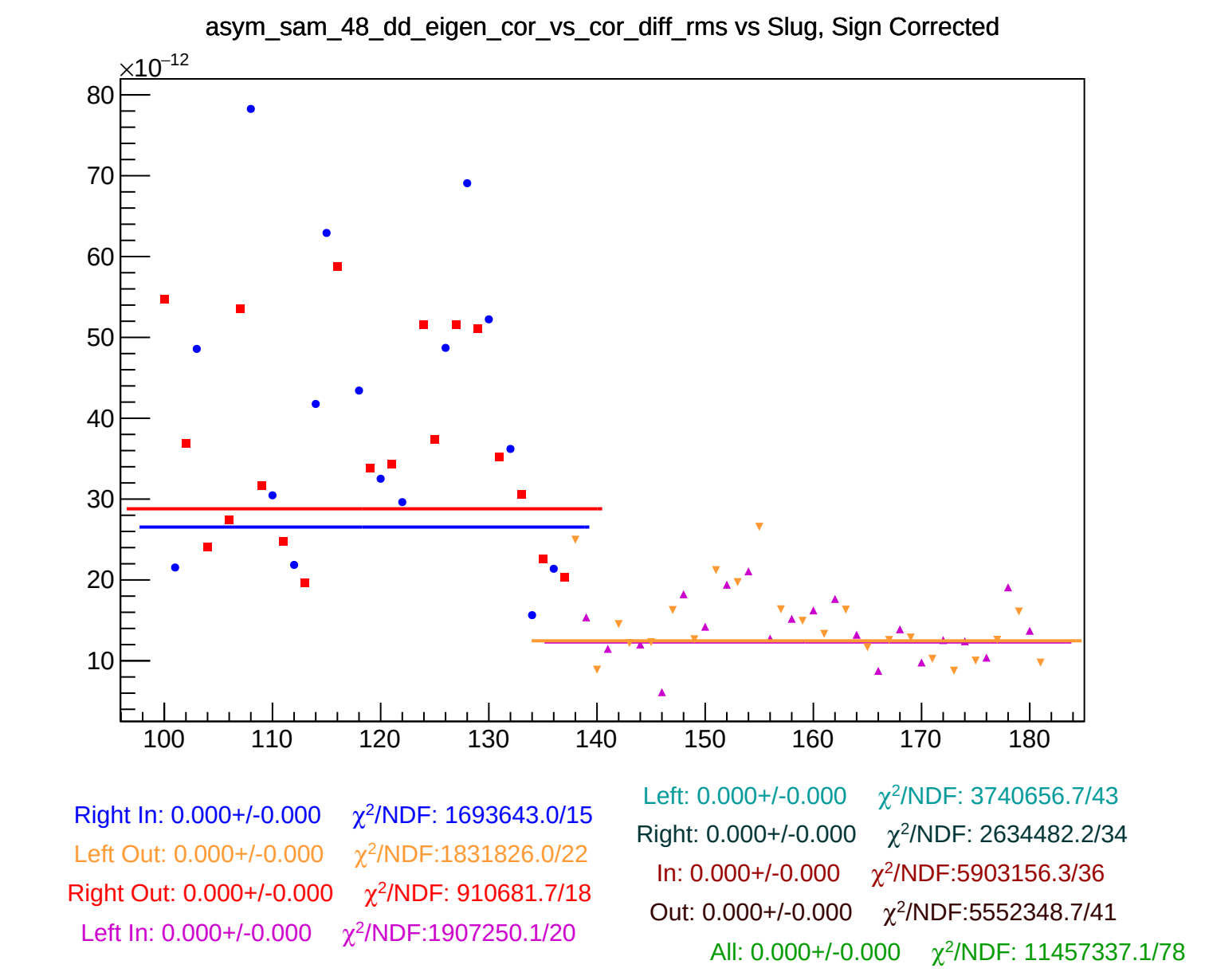
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.9/43

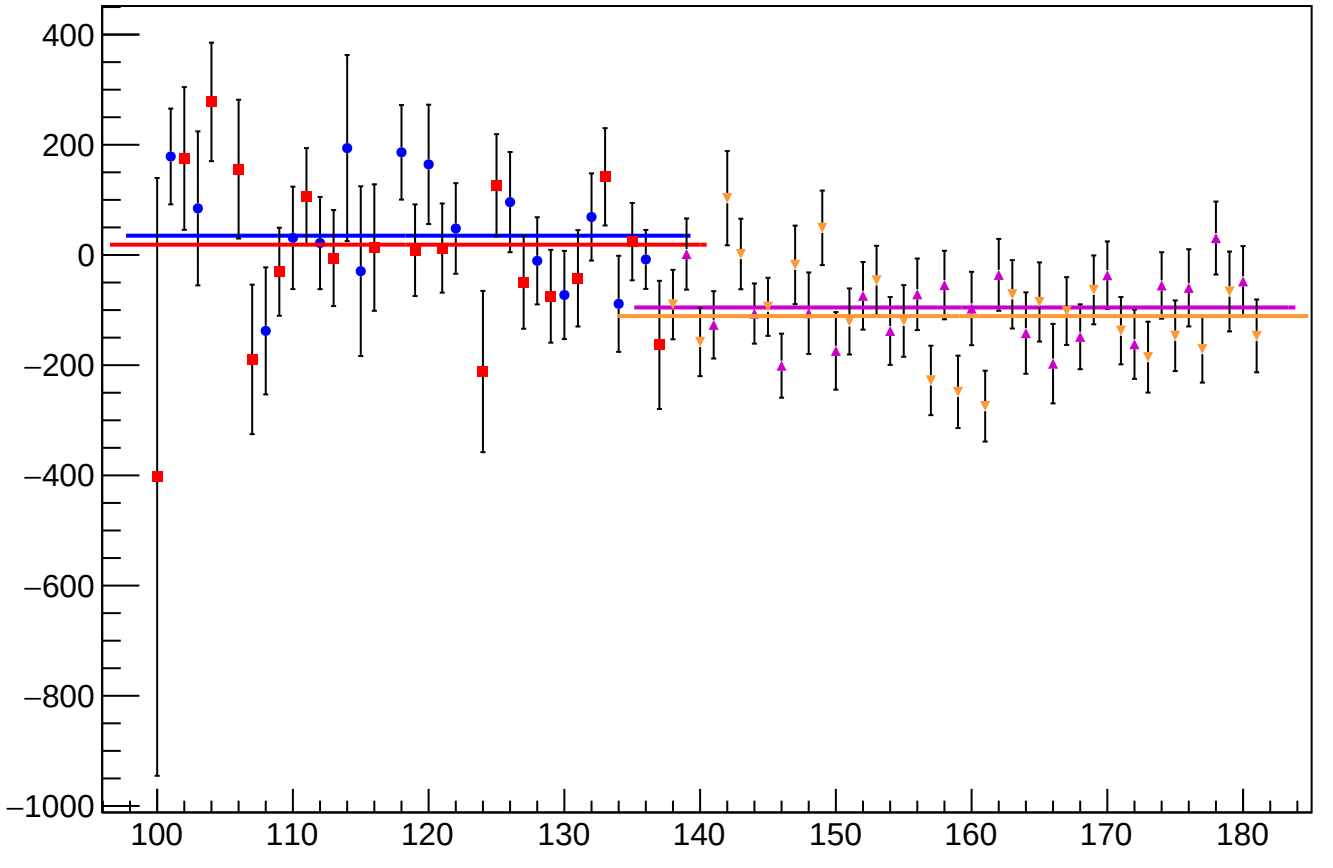
Right: -0.000+/-0.000 $\chi^2$/NDF: 34.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:36.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:46.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 83.8/78


asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
80
70
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1693643.0/15
Left Out: 0.000+/-0.000 χ²/NDF:1831826.0/22
Right Out: 0.000+/-0.000 χ²/NDF: 910681.7/18
Left In: 0.000+/-0.000 χ²/NDF:1907250.1/20
Left: 0.000+/-0.000 χ²/NDF: 3740656.7/43
Right: 0.000+/-0.000 χ²/NDF: 2634482.2/34
In: 0.000+/-0.000 χ²/NDF:5903156.3/36
Out: 0.000+/-0.000 χ²/NDF:5552348.7/41
All: 0.000+/-0.000 χ²/NDF: 11457337.1/78




Right In: 35.018+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -110.864+/-13.387 $\chi^2$/NDF:37.5/22

Right Out: 18.690+/-22.137 $\chi^2$/NDF: 23.5/18

Left In: -95.267+/-13.945 $\chi^2$/NDF:19.2/20

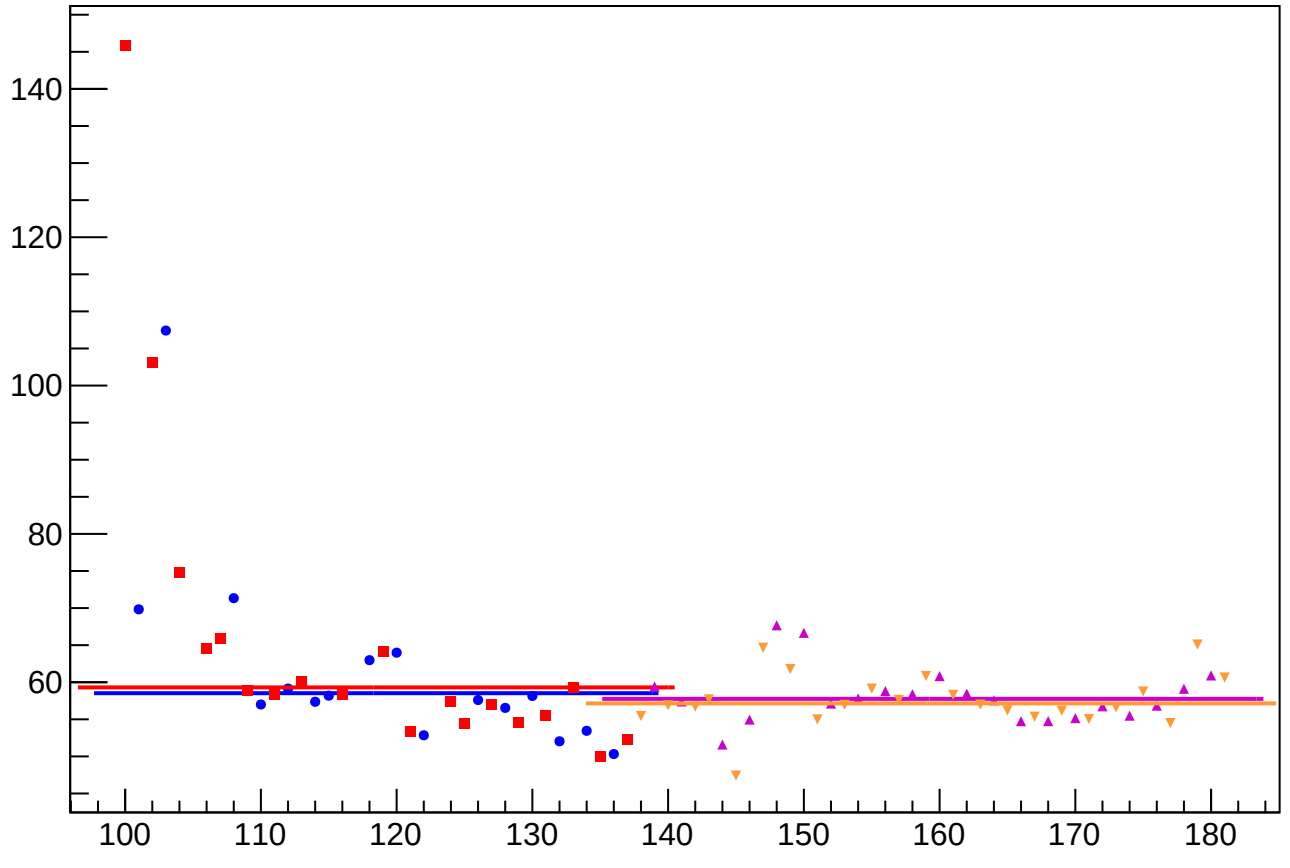
Left: -103.384+/-9.657 $\chi^2$/NDF: 57.3/43

Right: 26.855+/-15.652 $\chi^2$/NDF: 40.0/34

In: -58.249+/-11.799 $\chi^2$/NDF:60.2/36

Out: -76.171+/-11.456 $\chi^2$/NDF:86.0/41

All: -67.474+/-8.219 $\chi^2$/NDF: 147.5/78




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392742.4/15

Left Out: 57.147+/-0.009 $\chi^2$/NDF:152676.1/22

Right Out: 59.301+/-0.016 $\chi^2$/NDF: 406611.5/18

Left In: 57.756+/-0.010 $\chi^2$/NDF:126494.5/20

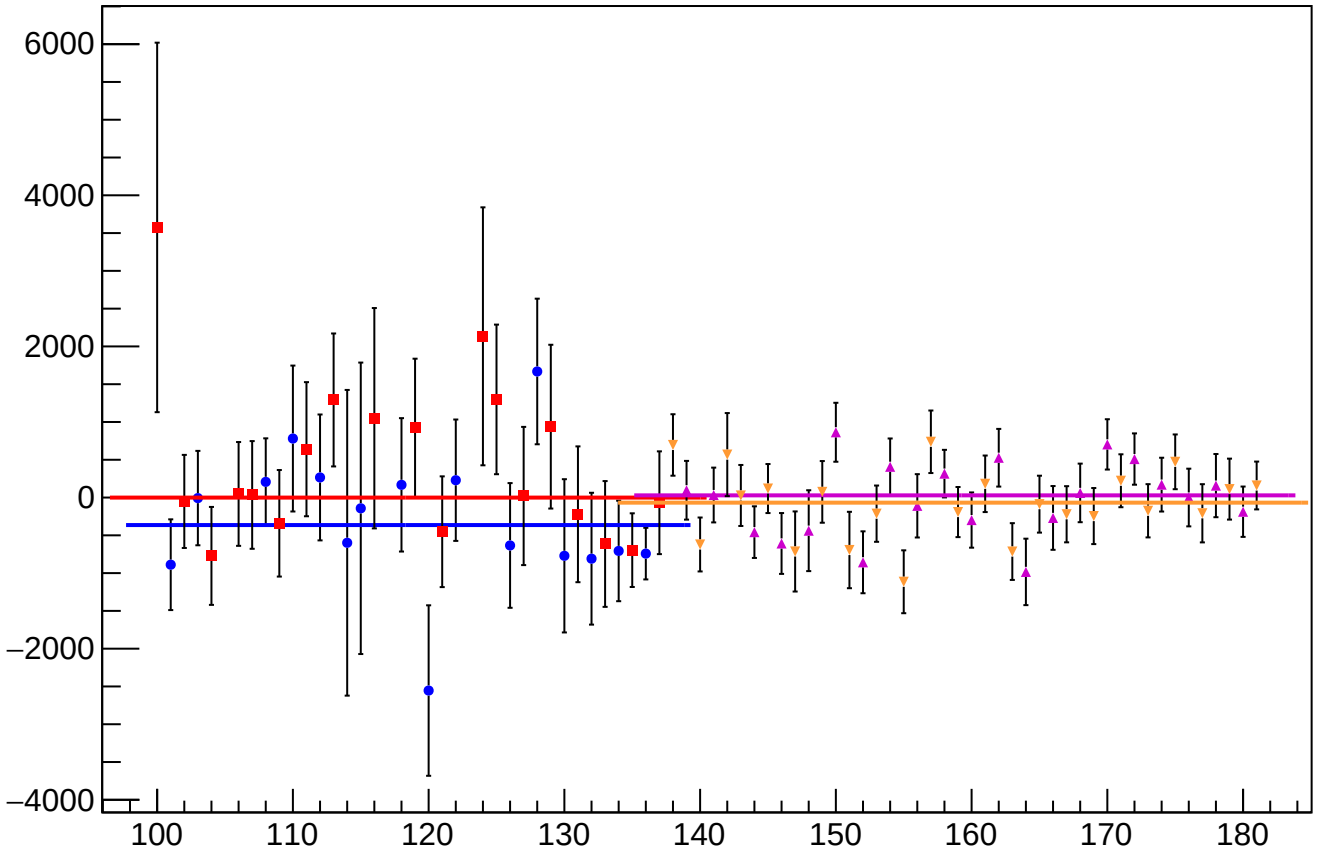
Left: 57.439+/-0.007 $\chi^2$/NDF: 281161.5/43

Right: 58.911+/-0.011 $\chi^2$/NDF: 800594.3/34

In: 57.974+/-0.008 $\chi^2$/NDF:520948.1/36

Out: 57.724+/-0.008 $\chi^2$/NDF:573162.1/41

All: 57.845+/-0.006 $\chi^2$/NDF: 1094573.6/78




Right In: -364.076+/-180.601 $\chi^2$/NDF: 15.2/15

Left Out: -67.582+/-79.876 $\chi^2$/NDF:28.9/22

Right Out: -0.570+/-183.085 $\chi^2$/NDF: 15.1/18

Left In: 28.999+/-82.512 $\chi^2$/NDF:31.6/20

Left: -20.859+/-57.390 $\chi^2$/NDF: 61.2/43

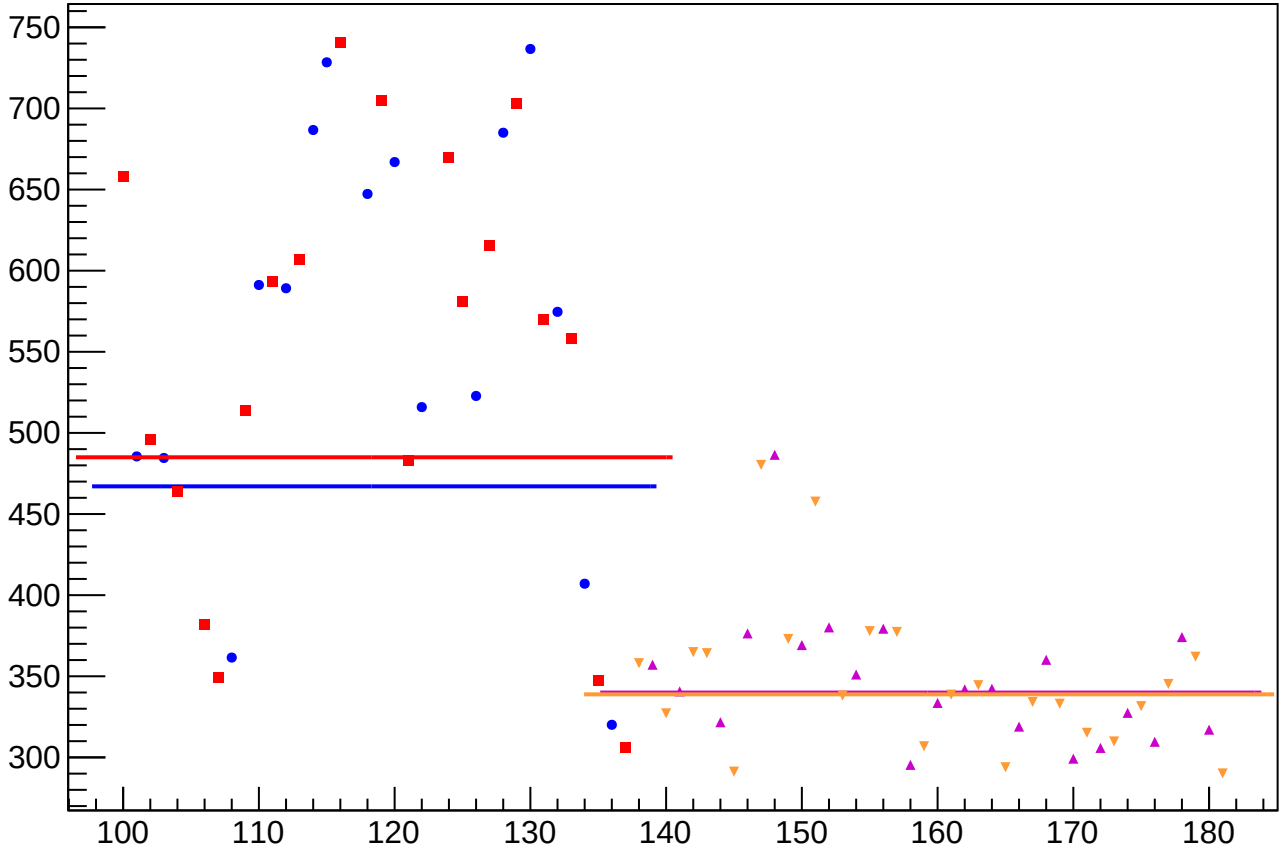
Right: -184.806+/-128.573 $\chi^2$/NDF: 32.3/34

In: -38.880+/-75.050 $\chi^2$/NDF:50.8/36

Out: -56.866+/-73.212 $\chi^2$/NDF:44.1/41

All: -48.096+/-52.406 $\chi^2$/NDF: 94.9/78

asym_sam_13_57_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 467.068+/-0.128 $\chi^2$/NDF: 1030279.0/15

Left Out: 338.869+/-0.056 $\chi^2$/NDF:490288.4/22

Right Out: 484.982+/-0.129 $\chi^2$/NDF: 874102.2/18

Left In: 339.959+/-0.058 $\chi^2$/NDF:365299.9/20

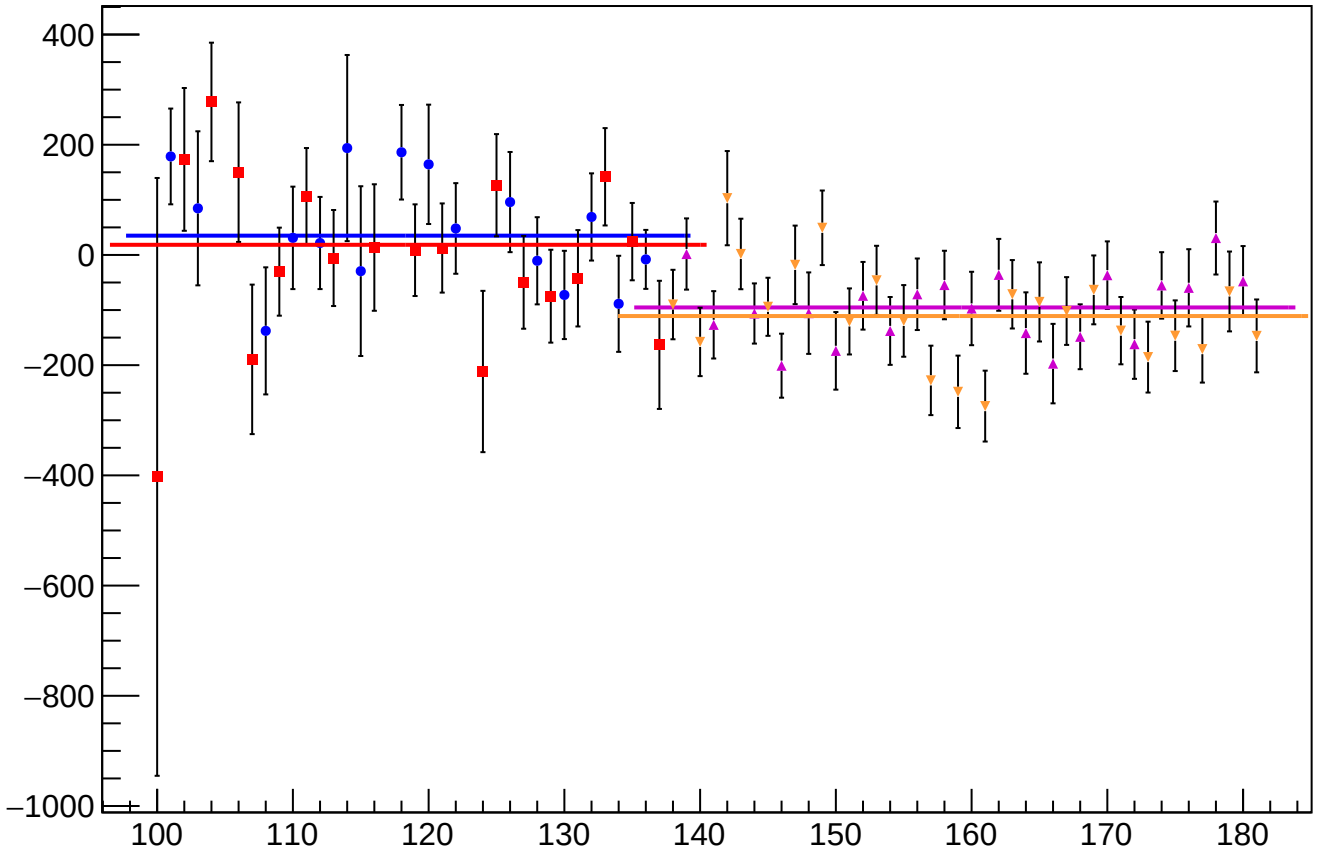
Left: 339.396+/-0.041 $\chi^2$/NDF: 855768.5/43

Right: 475.902+/-0.091 $\chi^2$/NDF: 1914085.4/34

In: 361.909+/-0.053 $\chi^2$/NDF:2215199.9/36

Out: 362.233+/-0.052 $\chi^2$/NDF:2434504.2/41

All: 362.075+/-0.037 $\chi^2$/NDF: 4649723.1/78




Right In: 35.017+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -110.864+/-13.387 $\chi^2$/NDF:37.5/22

Right Out: 18.417+/-22.141 $\chi^2$/NDF: 23.4/18

Left In: -95.269+/-13.945 $\chi^2$/NDF:19.2/20

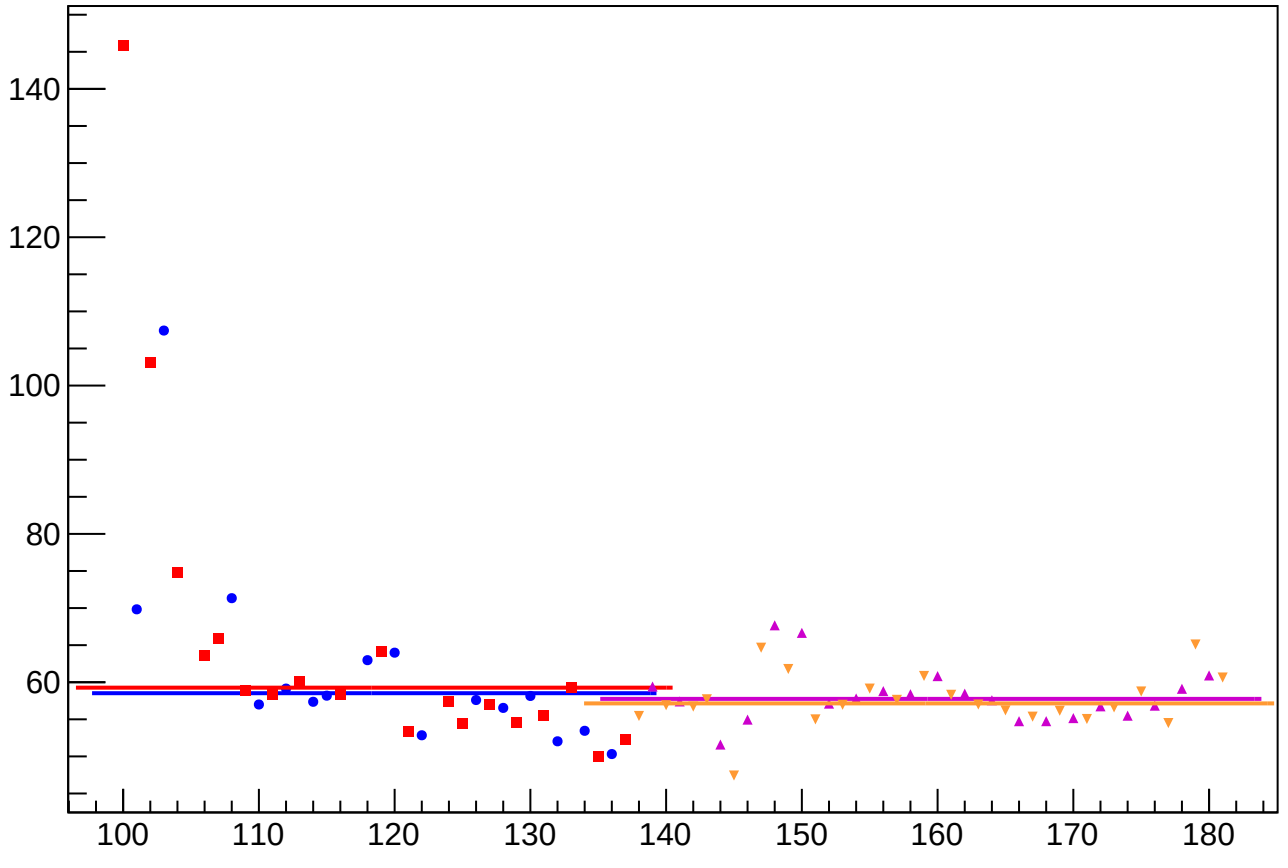
Left: -103.384+/-9.657 $\chi^2$/NDF: 57.3/43

Right: 26.719+/-15.654 $\chi^2$/NDF: 39.8/34

In: -58.250+/-11.799 $\chi^2$/NDF:60.2/36

Out: -76.253+/-11.456 $\chi^2$/NDF:85.8/41

All: -67.517+/-8.219 $\chi^2$/NDF: 147.2/78




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392744.5/15

Left Out: 57.147+/-0.009 $\chi^2$/NDF:152676.1/22

Right Out: 59.269+/-0.016 $\chi^2$/NDF: 405616.3/18

Left In: 57.756+/-0.010 $\chi^2$/NDF:126494.5/20

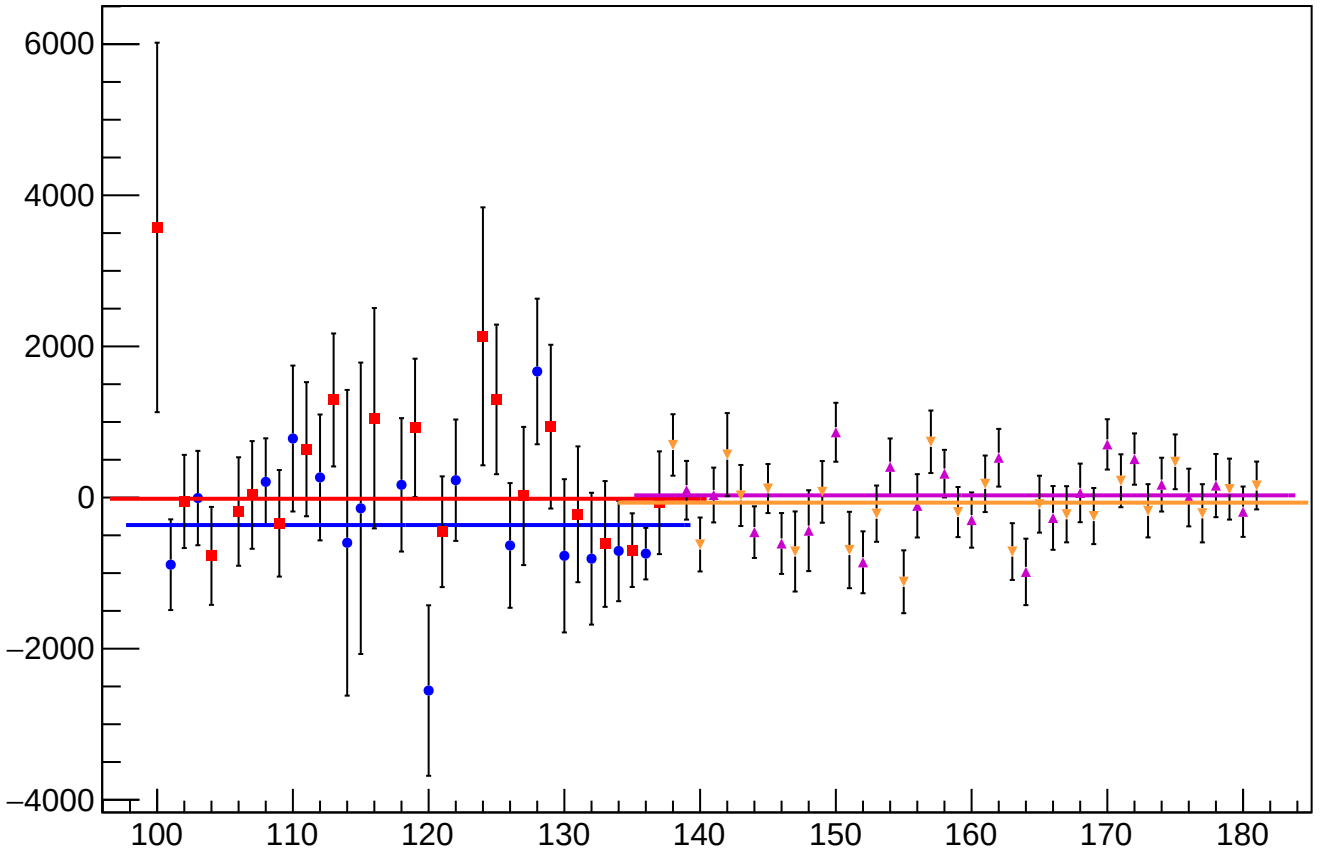
Left: 57.439+/-0.007 $\chi^2$/NDF: 281161.5/43

Right: 58.895+/-0.011 $\chi^2$/NDF: 799501.8/34

In: 57.974+/-0.008 $\chi^2$/NDF:520950.2/36

Out: 57.715+/-0.008 $\chi^2$/NDF:571756.4/41

All: 57.841+/-0.006 $\chi^2$/NDF: 1093202.6/78




Right In: -364.040+/-180.602 $\chi^2$/NDF: 15.2/15

Left Out: -67.584+/-79.876 $\chi^2$/NDF:28.9/22

Right Out: -16.087+/-183.650 $\chi^2$/NDF: 15.1/18

Left In: 28.998+/-82.512 $\chi^2$/NDF:31.6/20

Left: -20.860+/-57.390 $\chi^2$/NDF: 61.2/43

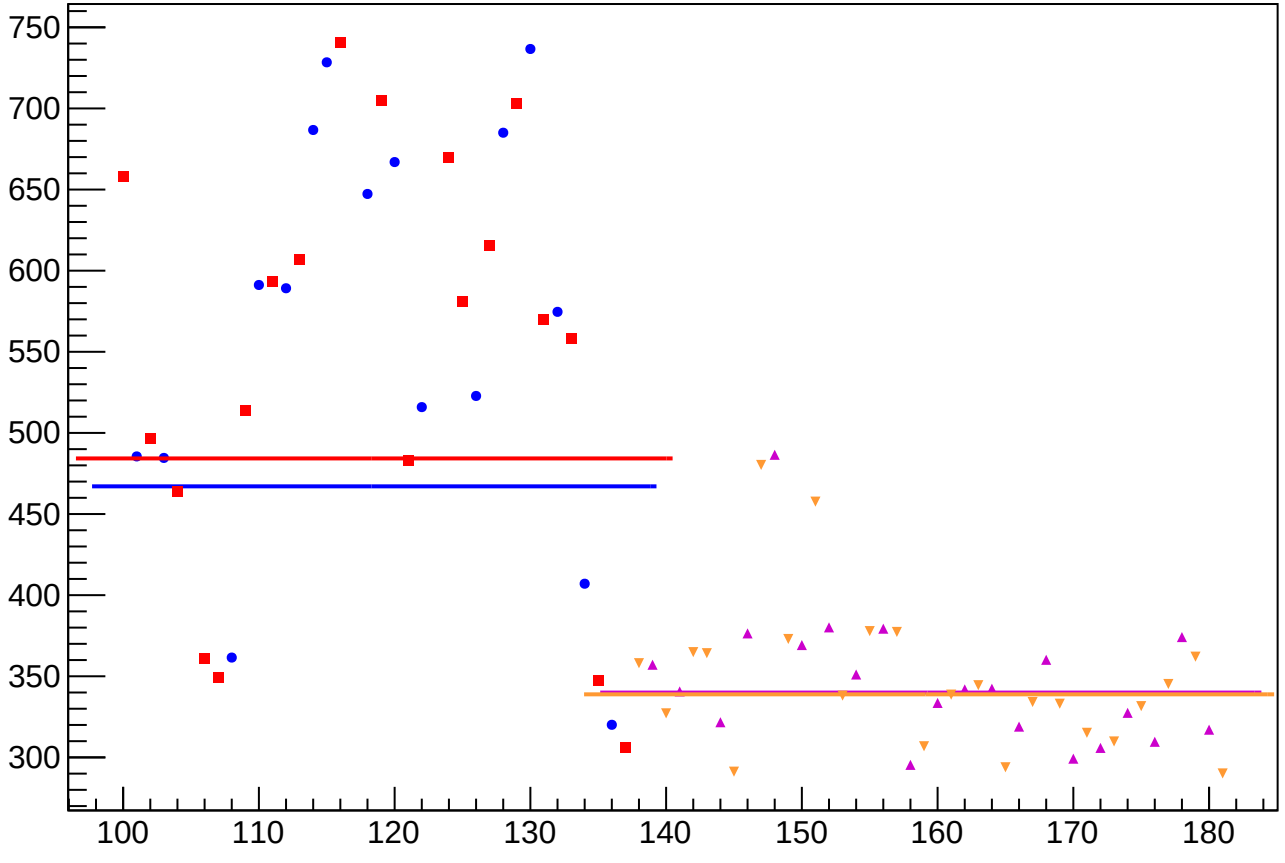
Right: -192.975+/-128.769 $\chi^2$/NDF: 32.2/34

In: -38.874+/-75.050 $\chi^2$/NDF:50.8/36

Out: -59.392+/-73.248 $\chi^2$/NDF:44.1/41

All: -49.382+/-52.420 $\chi^2$/NDF: 94.9/78

asym_sam_13_57_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 467.071+/-0.128 $\chi^2$/NDF: 1030281.3/15

Left Out: 338.869+/-0.056 $\chi^2$/NDF:490289.3/22

Right Out: 484.274+/-0.130 $\chi^2$/NDF: 888797.2/18

Left In: 339.959+/-0.058 $\chi^2$/NDF:365304.3/20

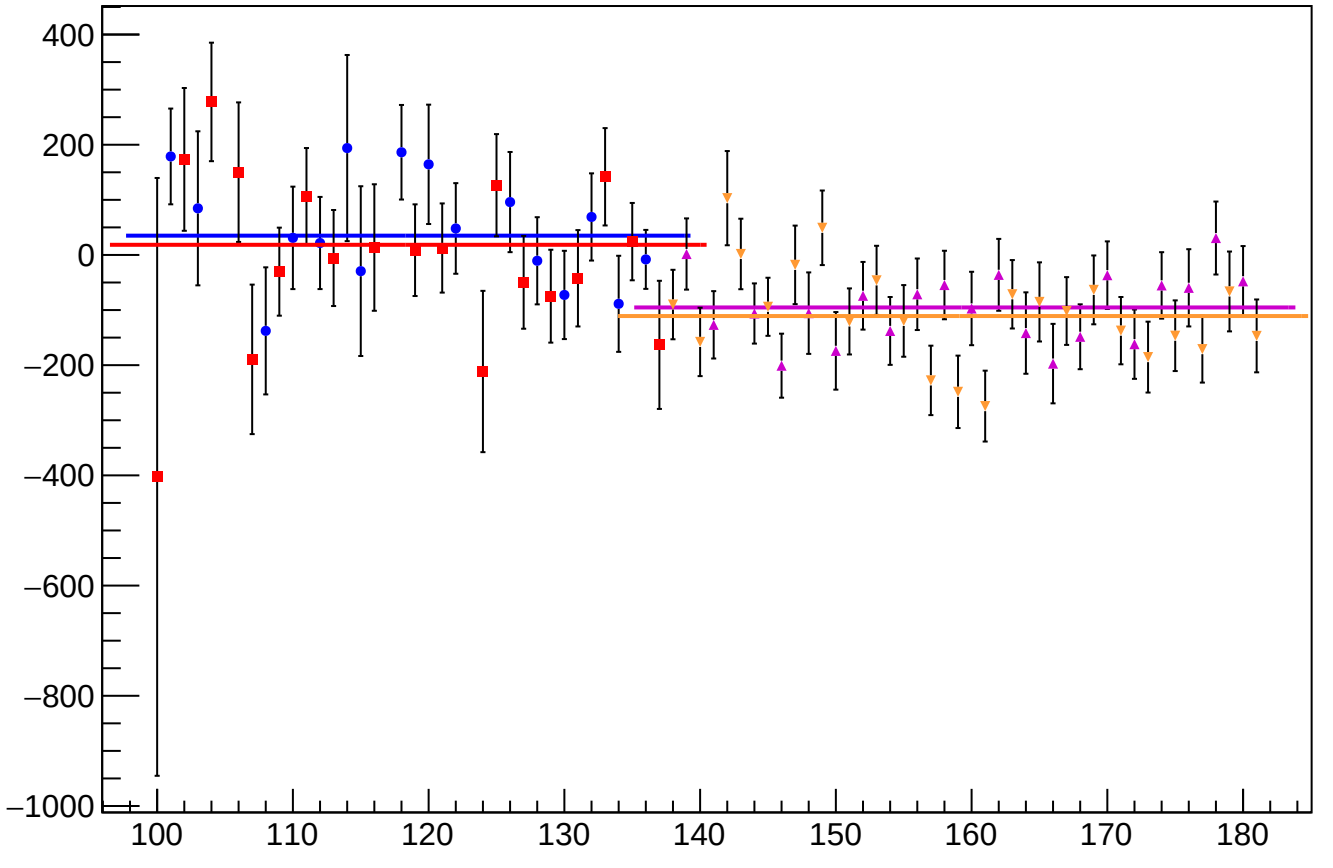
Left: 339.396+/-0.041 $\chi^2$/NDF: 855773.8/43

Right: 475.528+/-0.091 $\chi^2$/NDF: 1928000.1/34

In: 361.909+/-0.053 $\chi^2$/NDF:2215233.2/36

Out: 361.999+/-0.052 $\chi^2$/NDF:2433377.4/41

All: 361.955+/-0.037 $\chi^2$/NDF: 4648612.1/78




Right In: 35.017+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -110.864+/-13.387 $\chi^2$/NDF:37.5/22

Right Out: 18.417+/-22.141 $\chi^2$/NDF: 23.4/18

Left In: -95.269+/-13.945 $\chi^2$/NDF:19.2/20

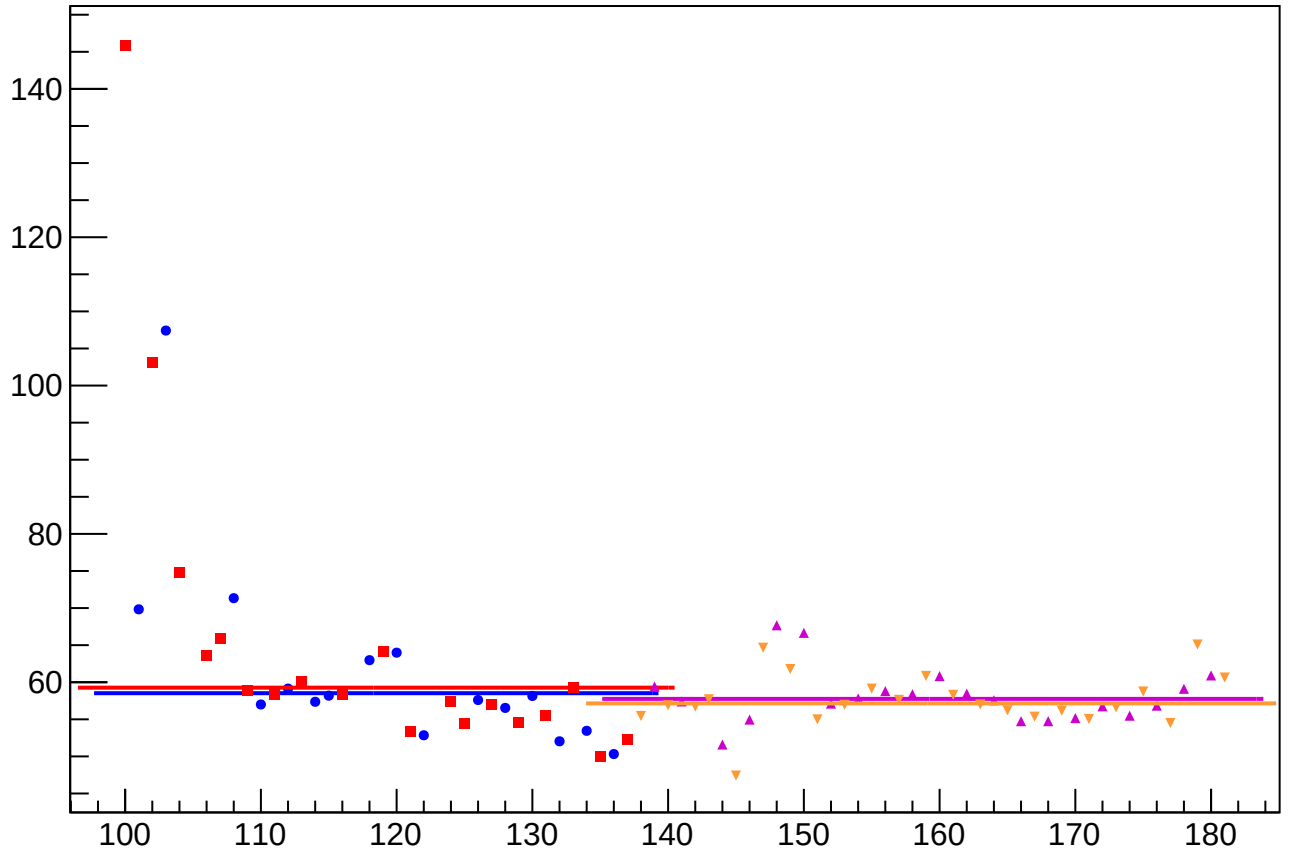
Left: -103.384+/-9.657 $\chi^2$/NDF: 57.3/43

Right: 26.719+/-15.654 $\chi^2$/NDF: 39.8/34

In: -58.250+/-11.799 $\chi^2$/NDF:60.2/36

Out: -76.253+/-11.456 $\chi^2$/NDF:85.8/41

All: -67.517+/-8.219 $\chi^2$/NDF: 147.2/78




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392744.5/15

Left Out: 57.147+/-0.009 $\chi^2$/NDF:152676.1/22

Right Out: 59.269+/-0.016 $\chi^2$/NDF: 405616.3/18

Left In: 57.756+/-0.010 $\chi^2$/NDF:126494.5/20

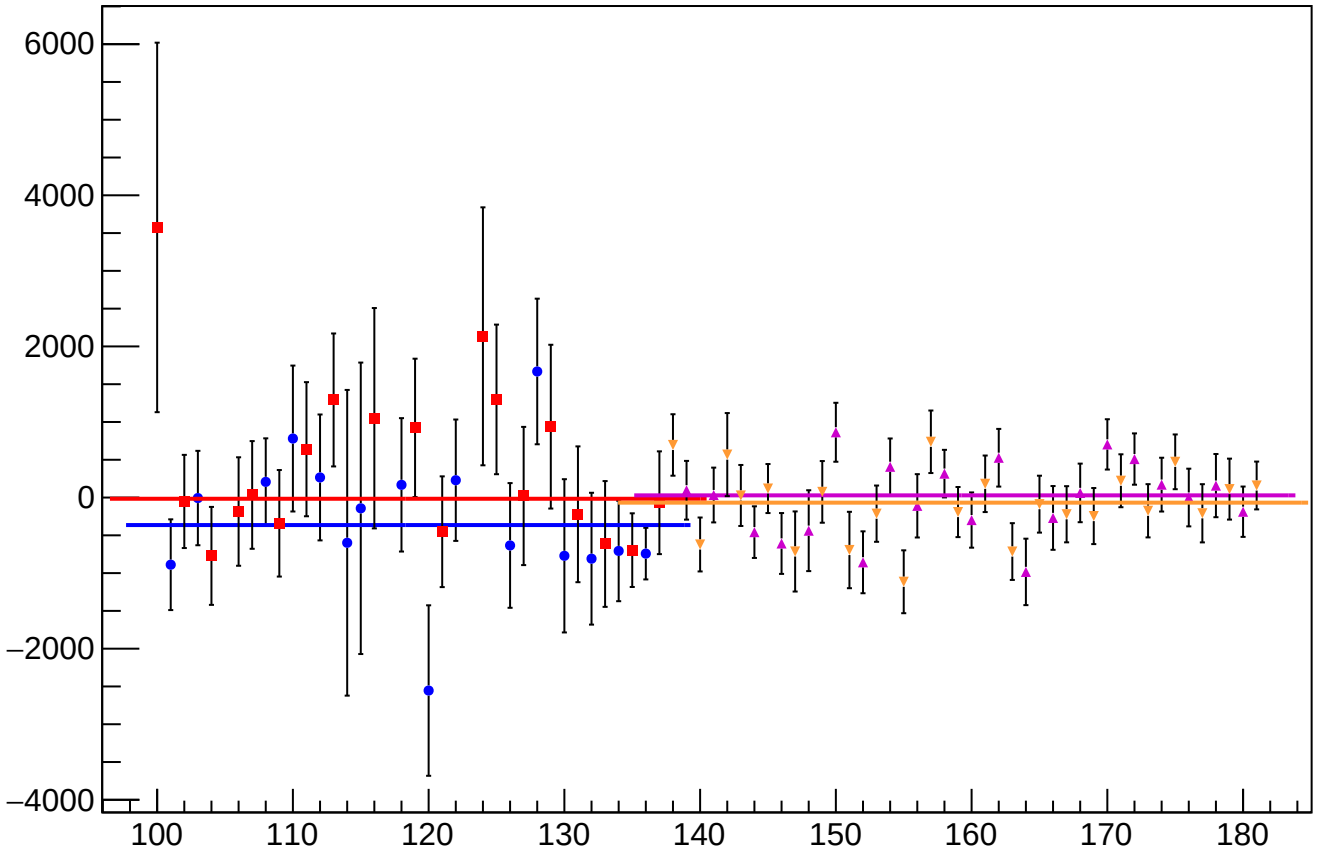
Left: 57.439+/-0.007 $\chi^2$/NDF: 281161.5/43

Right: 58.895+/-0.011 $\chi^2$/NDF: 799501.8/34

In: 57.974+/-0.008 $\chi^2$/NDF:520950.2/36

Out: 57.715+/-0.008 $\chi^2$/NDF:571756.4/41

All: 57.841+/-0.006 $\chi^2$/NDF: 1093202.6/78




Right In: -364.040+/-180.602 $\chi^2$/NDF: 15.2/15

Left Out: -67.584+/-79.876 $\chi^2$/NDF:28.9/22

Right Out: -16.087+/-183.650 $\chi^2$/NDF: 15.1/18

Left In: 28.998+/-82.512 $\chi^2$/NDF:31.6/20

Left: -20.860+/-57.390 $\chi^2$/NDF: 61.2/43

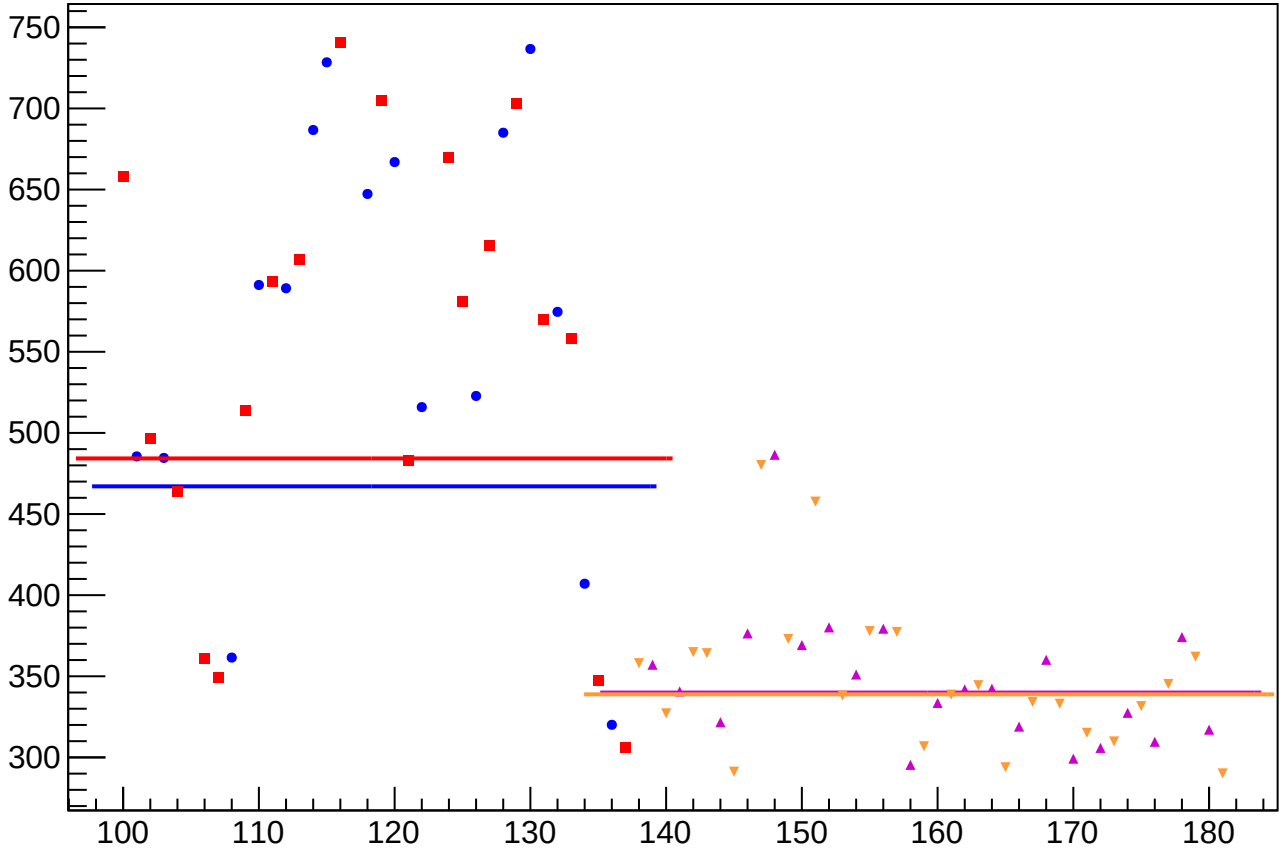
Right: -192.975+/-128.769 $\chi^2$/NDF: 32.2/34

In: -38.874+/-75.050 $\chi^2$/NDF:50.8/36

Out: -59.392+/-73.248 $\chi^2$/NDF:44.1/41

All: -49.382+/-52.420 $\chi^2$/NDF: 94.9/78

asym_sam_13_57_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 467.071+/-0.128 $\chi^2$/NDF: 1030281.3/15

Left Out: 338.869+/-0.056 $\chi^2$/NDF:490289.3/22

Right Out: 484.274+/-0.130 $\chi^2$/NDF: 888797.2/18

Left In: 339.959+/-0.058 $\chi^2$/NDF:365304.3/20

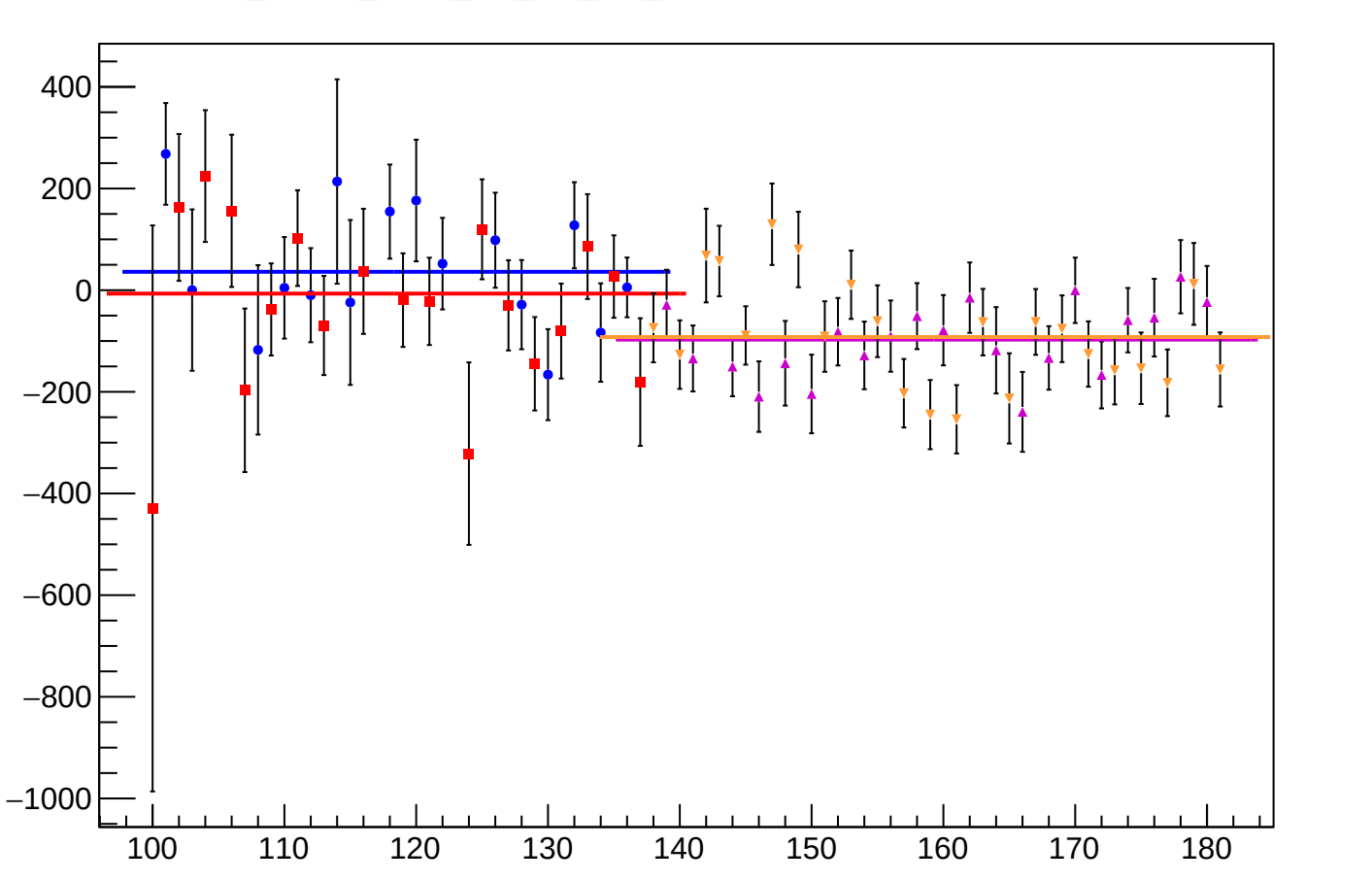
Left: 339.396+/-0.041 $\chi^2$/NDF: 855773.8/43

Right: 475.528+/-0.091 $\chi^2$/NDF: 1928000.1/34

In: 361.909+/-0.053 $\chi^2$/NDF:2215233.2/36

Out: 361.999+/-0.052 $\chi^2$/NDF:2433377.4/41

All: 361.955+/-0.037 $\chi^2$/NDF: 4648612.1/78




Right In: 36.157+/-24.471 $\chi^2$/NDF: 19.6/15

Left Out: -92.227+/-14.491 $\chi^2$/NDF:45.8/22

Right Out: -6.734+/-24.565 $\chi^2$/NDF: 20.3/18

Left In: -97.269+/-15.057 $\chi^2$/NDF:21.0/20

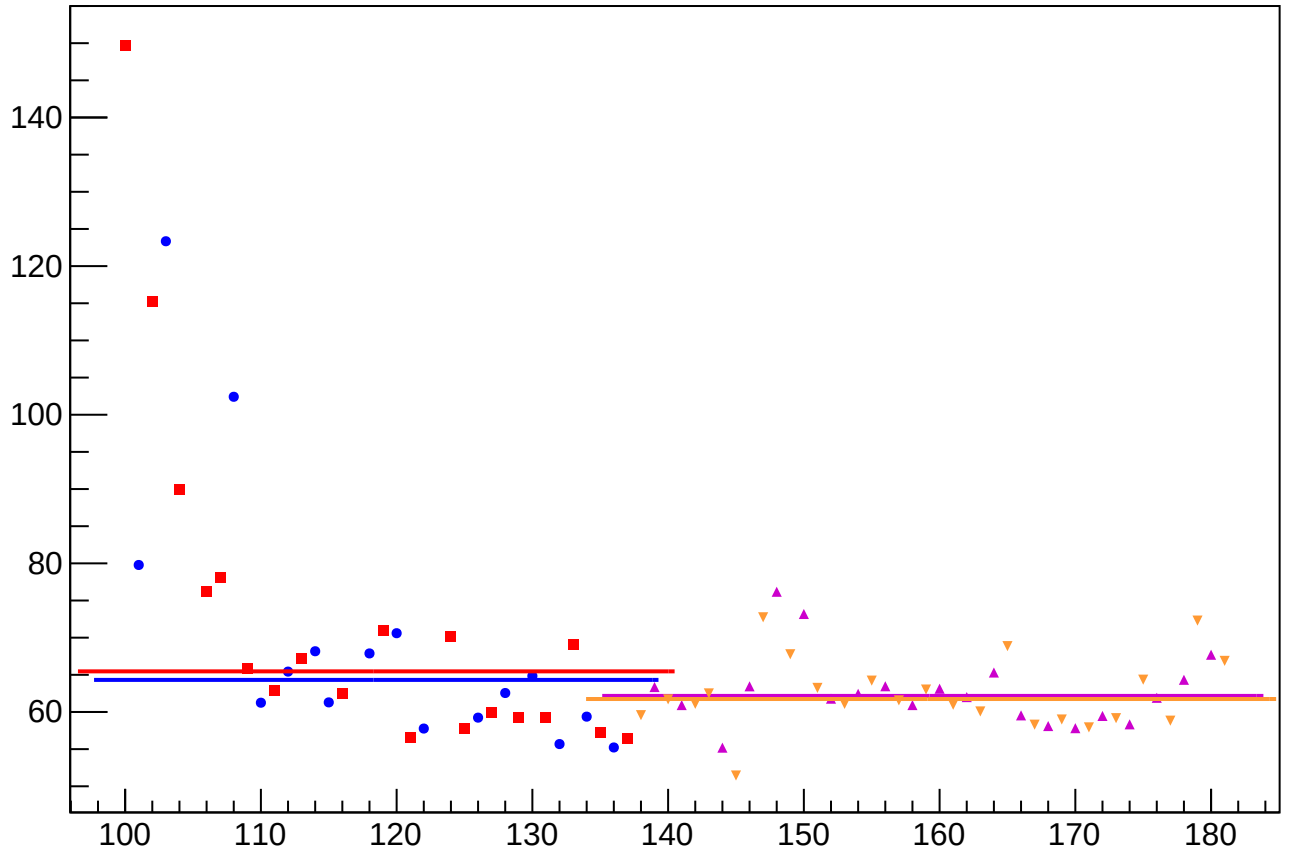
Left: -94.651+/-10.441 $\chi^2$/NDF: 66.8/43

Right: 14.793+/-17.337 $\chi^2$/NDF: 41.5/34

In: -60.626+/-12.824 $\chi^2$/NDF:62.2/36

Out: -70.156+/-12.481 $\chi^2$/NDF:75.1/41

All: -65.520+/-8.944 $\chi^2$/NDF: 137.6/78




Right In: 64.316+/-0.017 $\chi^2$/NDF: 532065.0/15

Left Out: 61.746+/-0.010 $\chi^2$/NDF:206296.0/22

Right Out: 65.466+/-0.017 $\chi^2$/NDF: 482361.0/18

Left In: 62.162+/-0.011 $\chi^2$/NDF:176679.9/20

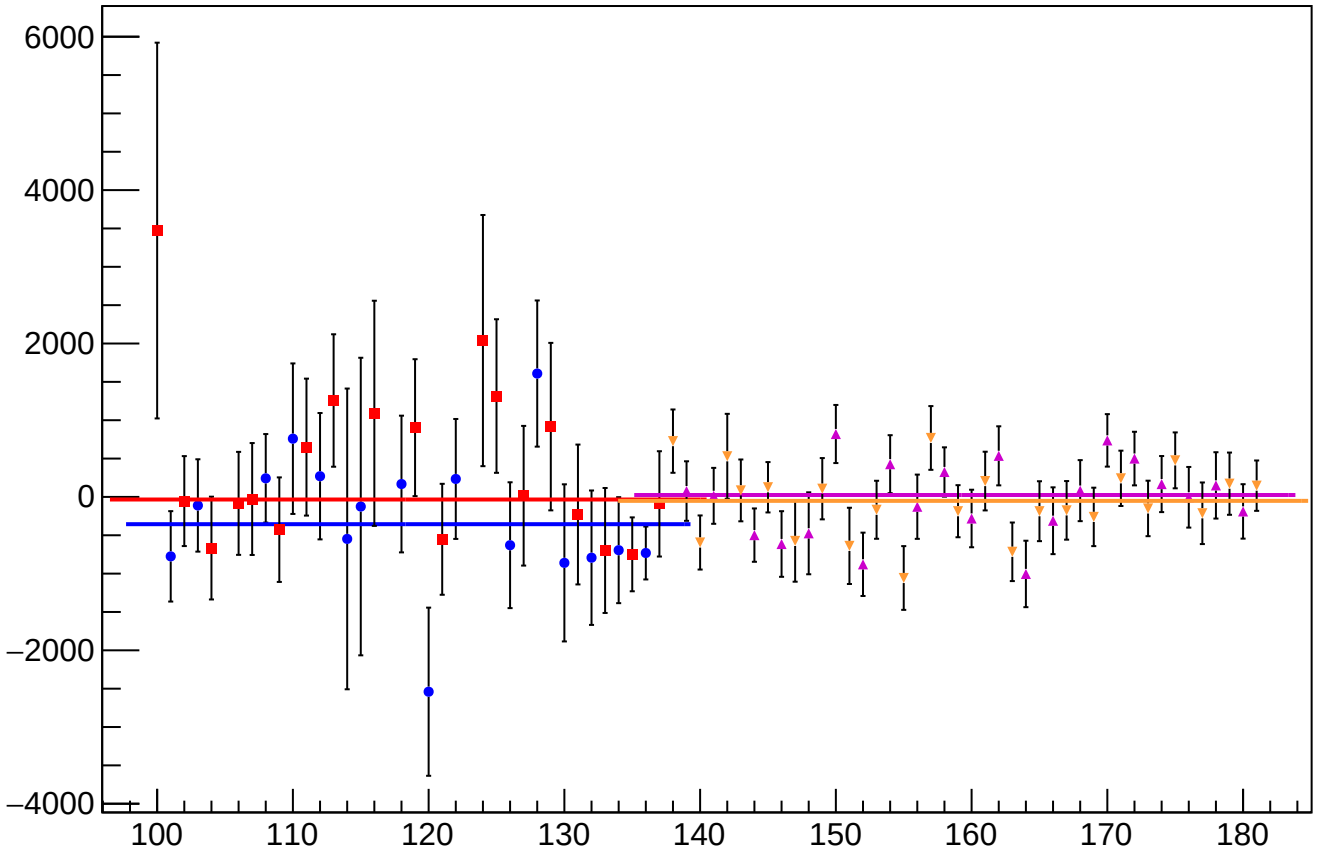
Left: 61.946+/-0.007 $\chi^2$/NDF: 383771.9/43

Right: 64.889+/-0.012 $\chi^2$/NDF: 1016625.1/34

In: 62.754+/-0.009 $\chi^2$/NDF:719983.6/36

Out: 62.706+/-0.009 $\chi^2$/NDF:722691.8/41

All: 62.729+/-0.006 $\chi^2$/NDF: 1442689.7/78




Right In: -355.529+/-180.335 $\chi^2$/NDF: 14.8/15

Left Out: -51.340+/-81.078 $\chi^2$/NDF:27.6/22

Right Out: -33.786+/-181.561 $\chi^2$/NDF: 15.4/18

Left In: 24.856+/-84.124 $\chi^2$/NDF:32.2/20

Left: -14.646+/-58.378 $\chi^2$/NDF: 60.3/43

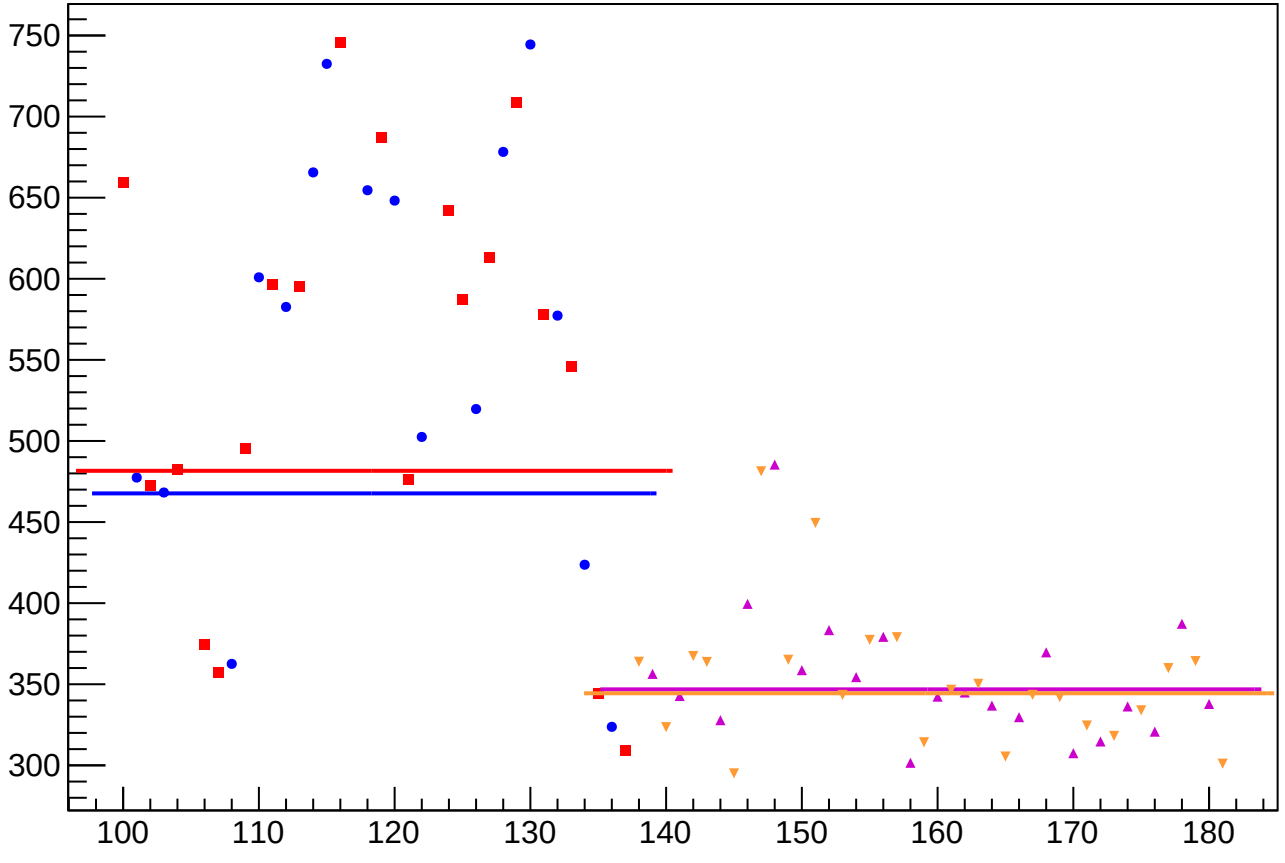
Right: -195.748+/-127.947 $\chi^2$/NDF: 31.8/34

In: -43.126+/-76.237 $\chi^2$/NDF:50.6/36

Out: -48.421+/-74.031 $\chi^2$/NDF:43.0/41

All: -45.851+/-53.111 $\chi^2$/NDF: 93.7/78

asym_sam_13_57_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 467.674+/-0.128 $\chi^2$/NDF: 985943.7/15

Left Out: 344.434+/-0.057 $\chi^2$/NDF:415973.2/22

Right Out: 481.599+/-0.128 $\chi^2$/NDF: 854281.1/18

Left In: 346.852+/-0.059 $\chi^2$/NDF:326075.1/20

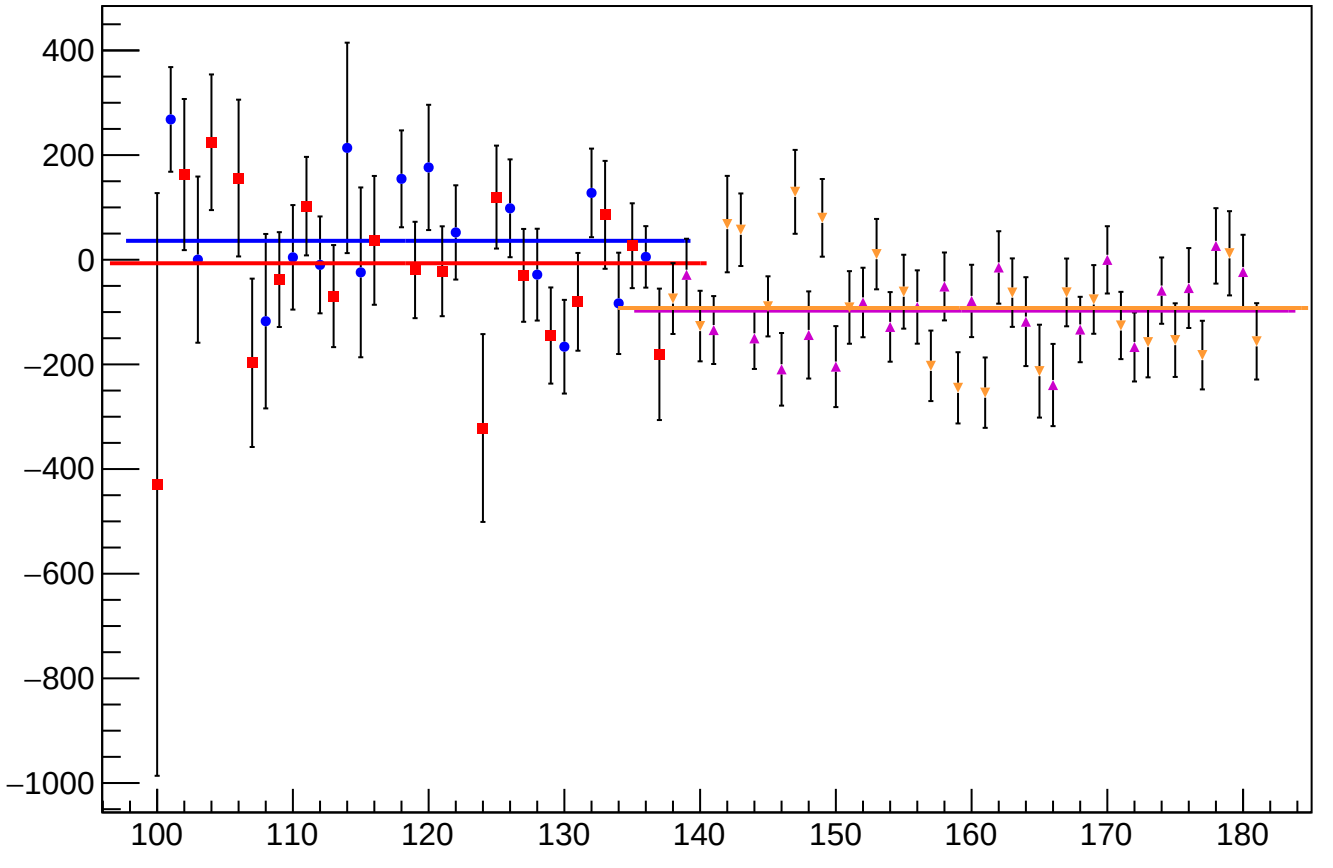
Left: 345.598+/-0.041 $\chi^2$/NDF: 742905.2/43

Right: 474.590+/-0.090 $\chi^2$/NDF: 1846147.0/34

In: 368.445+/-0.054 $\chi^2$/NDF:2049344.1/36

Out: 367.239+/-0.052 $\chi^2$/NDF:2221971.2/41

All: 367.824+/-0.038 $\chi^2$/NDF: 4271573.1/78




Right In: 36.157+/-24.471 $\chi^2$/NDF: 19.6/15

Left Out: -92.227+/-14.491 $\chi^2$/NDF:45.8/22

Right Out: -6.735+/-24.565 $\chi^2$/NDF: 20.3/18

Left In: -97.269+/-15.057 $\chi^2$/NDF:21.0/20

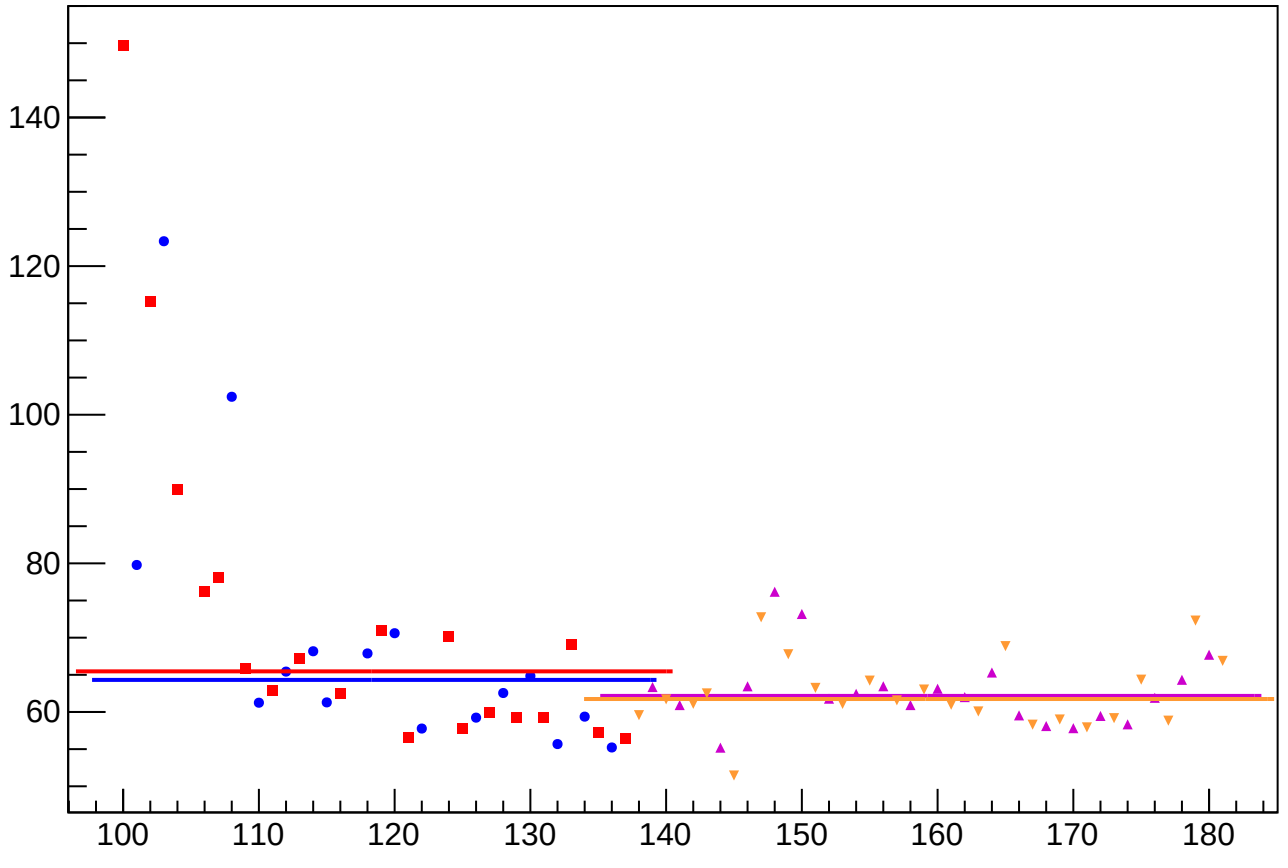
Left: -94.651+/-10.441 $\chi^2$/NDF: 66.8/43

Right: 14.793+/-17.337 $\chi^2$/NDF: 41.5/34

In: -60.626+/-12.824 $\chi^2$/NDF:62.2/36

Out: -70.156+/-12.481 $\chi^2$/NDF:75.1/41

All: -65.520+/-8.944 $\chi^2$/NDF: 137.6/78




Right In: 64.316+/-0.017 $\chi^2$/NDF: 532073.4/15

Left Out: 61.746+/-0.010 $\chi^2$/NDF:206300.4/22

Right Out: 65.466+/-0.017 $\chi^2$/NDF: 482367.1/18

Left In: 62.162+/-0.011 $\chi^2$/NDF:176683.5/20

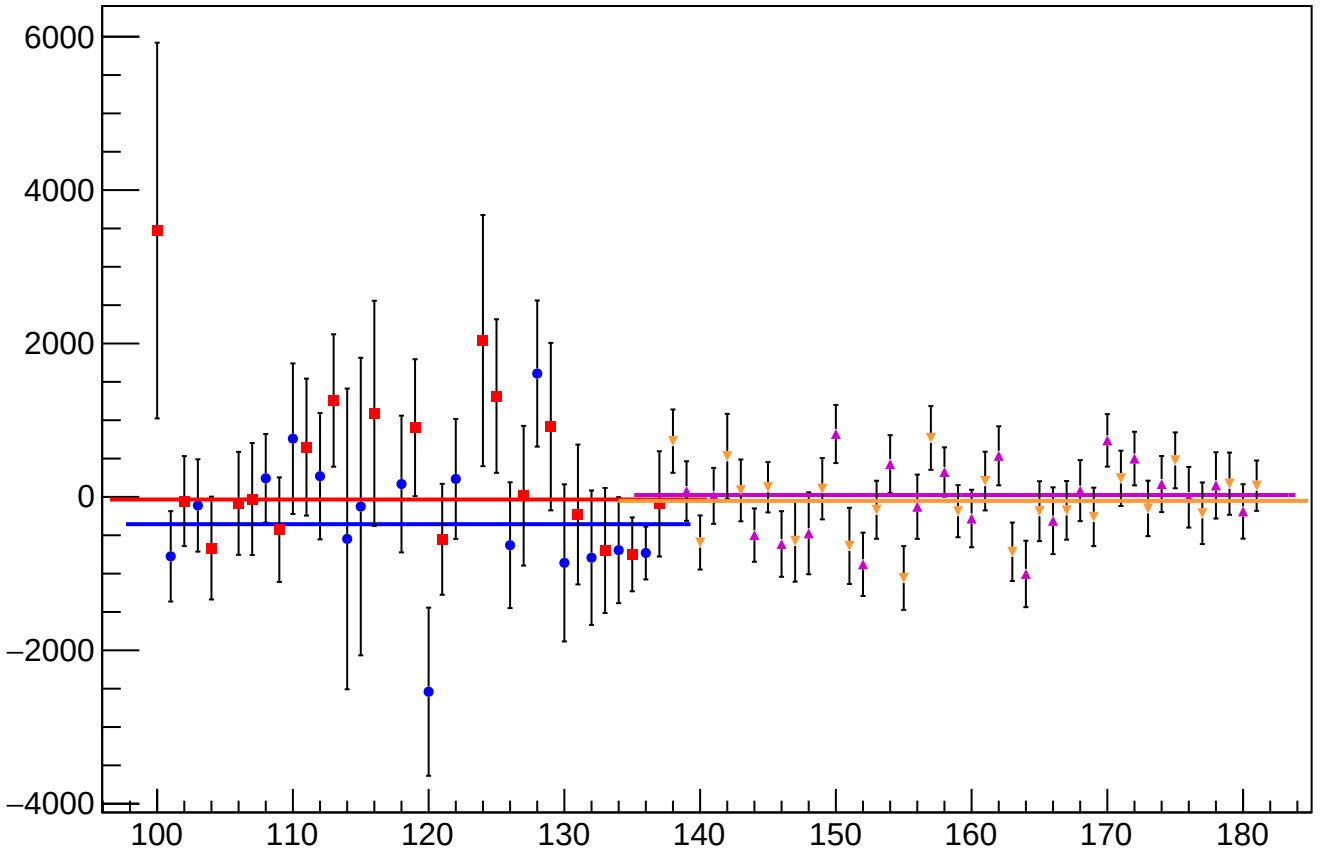
Left: 61.946+/-0.007 $\chi^2$/NDF: 383780.0/43

Right: 64.889+/-0.012 $\chi^2$/NDF: 1016639.7/34

In: 62.754+/-0.009 $\chi^2$/NDF:719994.1/36

Out: 62.706+/-0.009 $\chi^2$/NDF:722700.4/41

All: 62.729+/-0.006 $\chi^2$/NDF: 1442708.8/78




Right In: -355.529+/-180.334 $\chi^2$/NDF: 14.8/15

Left Out: -51.339+/-81.078 $\chi^2$/NDF:27.6/22

Right Out: -33.787+/-181.560 $\chi^2$/NDF: 15.4/18

Left In: 24.856+/-84.124 $\chi^2$/NDF:32.2/20

Left: -14.646+/-58.378 $\chi^2$/NDF: 60.3/43

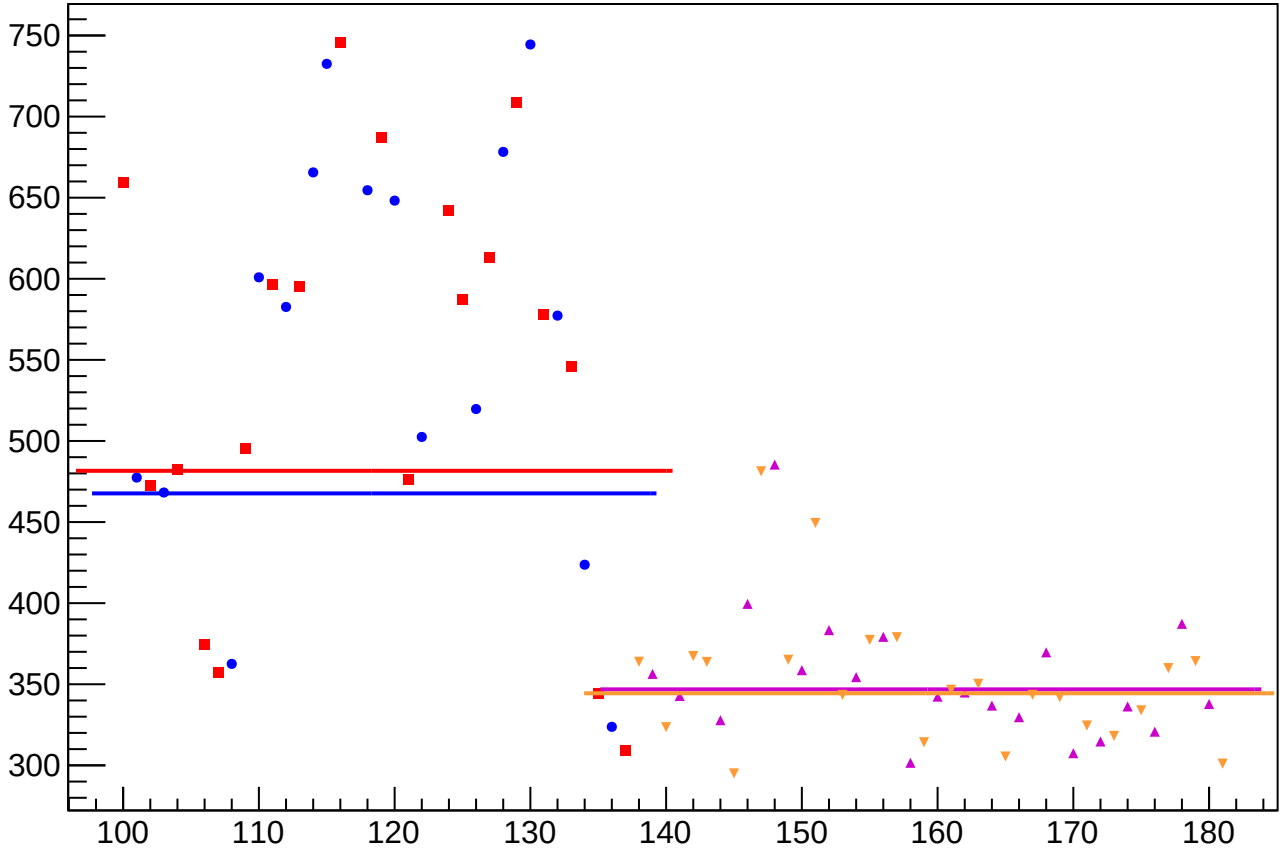
Right: -195.748+/-127.947 $\chi^2$/NDF: 31.8/34

In: -43.126+/-76.237 $\chi^2$/NDF:50.6/36

Out: -48.421+/-74.031 $\chi^2$/NDF:43.0/41

All: -45.851+/-53.111 $\chi^2$/NDF: 93.7/78

asym_sam_13_57_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 467.674+/-0.128 $\chi^2$/NDF: 985945.4/15

Left Out: 344.434+/-0.057 $\chi^2$/NDF:415975.3/22

Right Out: 481.599+/-0.128 $\chi^2$/NDF: 854281.0/18

Left In: 346.852+/-0.059 $\chi^2$/NDF:326076.5/20

Left: 345.598+/-0.041 $\chi^2$/NDF: 742908.7/43

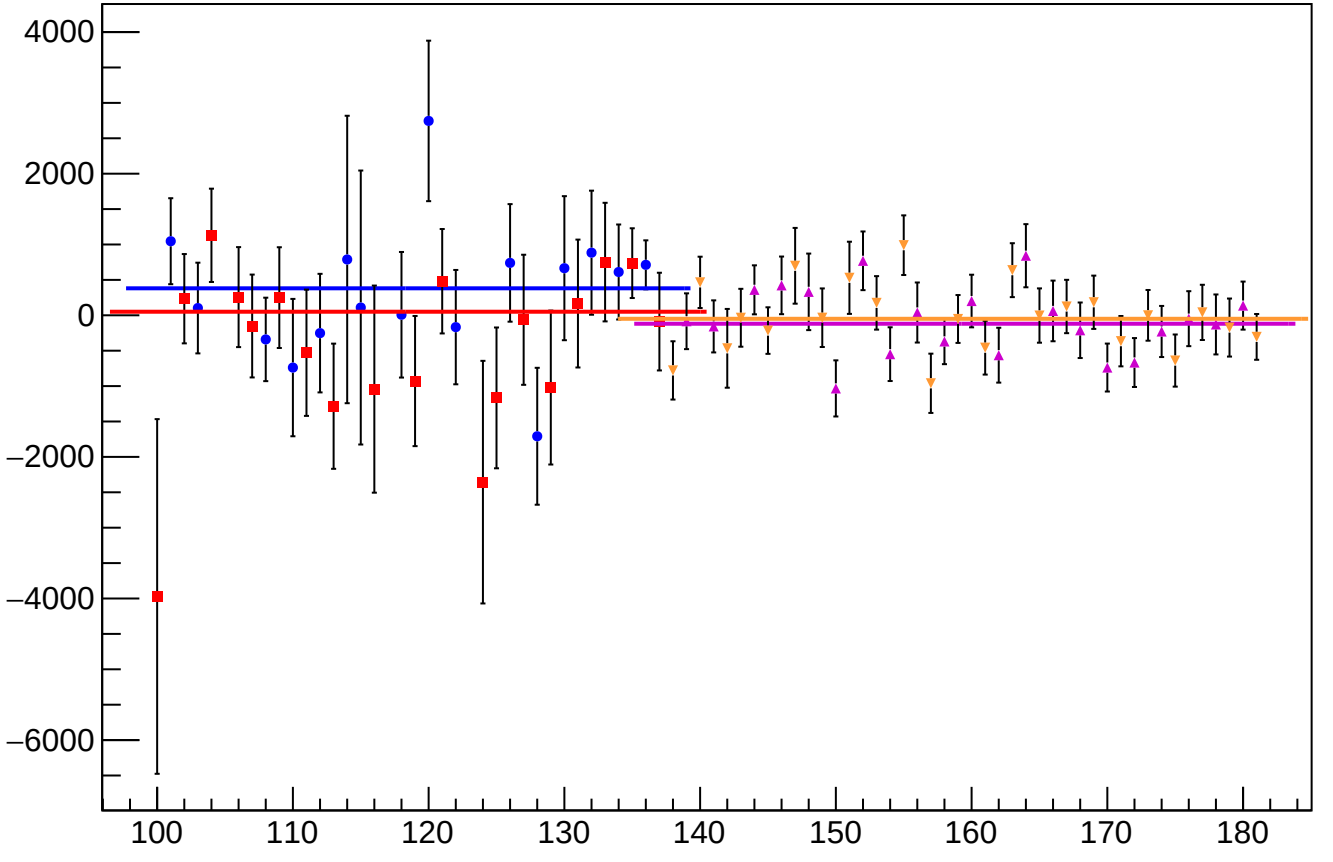
Right: 474.589+/-0.090 $\chi^2$/NDF: 1846148.4/34

In: 368.445+/-0.054 $\chi^2$/NDF:2049339.5/36

Out: 367.239+/-0.052 $\chi^2$/NDF:2221964.7/41

All: 367.824+/-0.038 $\chi^2$/NDF: 4271562.0/78

# asym_sam_13_57_dd_mean vs Slug, Sign Corrected




Right In: 381.086+/-182.655 $\chi^2$/NDF: 16.1/15

Left Out: -49.502+/-81.059 $\chi^2$/NDF:29.6/22

Right Out: 50.392+/-185.262 $\chi^2$/NDF: 17.5/18

Left In: -119.376+/-83.736 $\chi^2$/NDF:29.8/20

Left: -83.304+/-58.241 $\chi^2$/NDF: 59.8/43

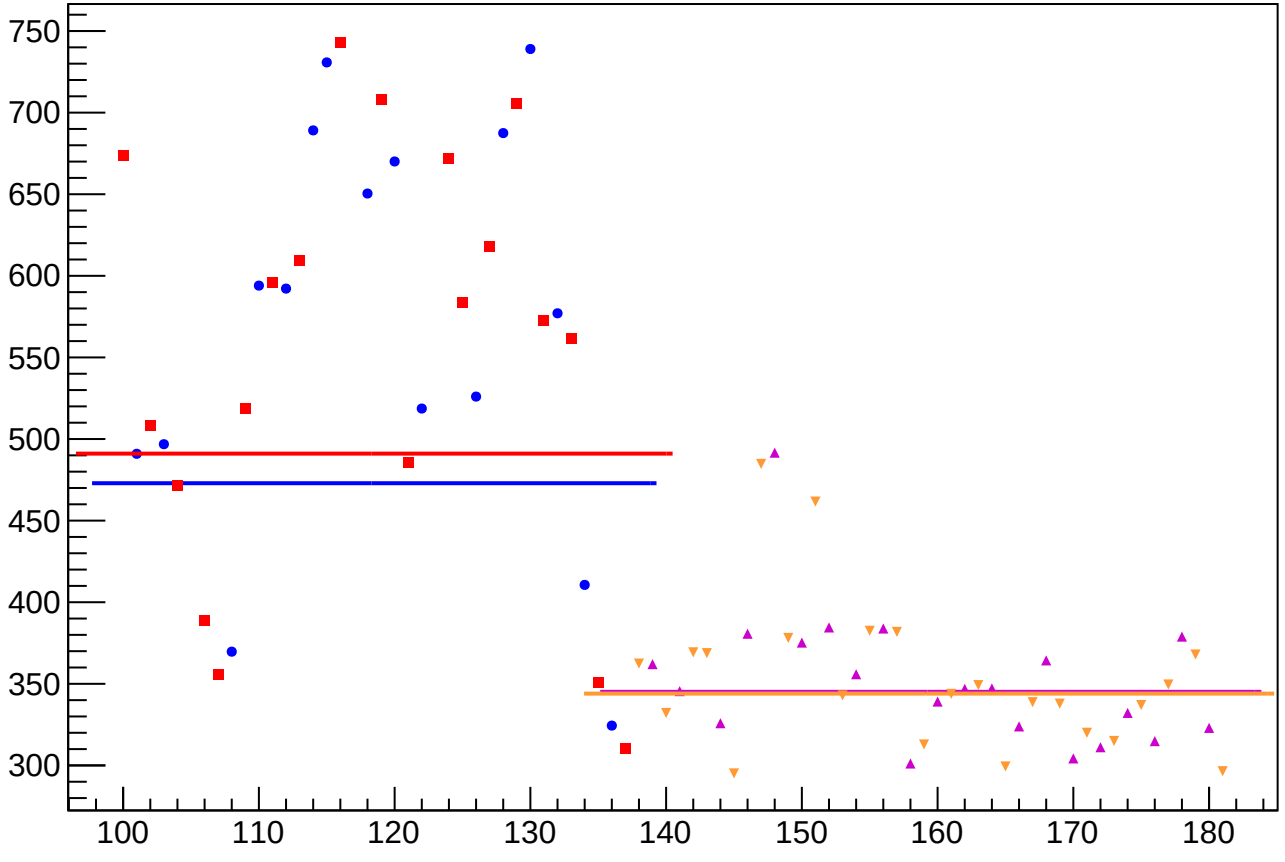
Right: 218.082+/-130.069 $\chi^2$/NDF: 35.2/34

In: -32.463+/-76.118 $\chi^2$/NDF:52.2/36

Out: -33.451+/-74.262 $\chi^2$/NDF:47.3/41

All: -32.969+/-53.155 $\chi^2$/NDF: 99.5/78

# asym_sam_13_57_dd_rms vs Slug, Sign Corrected




Right In: 472.924+/-0.129 $\chi^2$/NDF: 1000274.3/15

Left Out: 344.007+/-0.057 $\chi^2$/NDF:472426.1/22

Right Out: 491.063+/-0.131 $\chi^2$/NDF: 847493.6/18

Left In: 345.098+/-0.059 $\chi^2$/NDF:352388.7/20

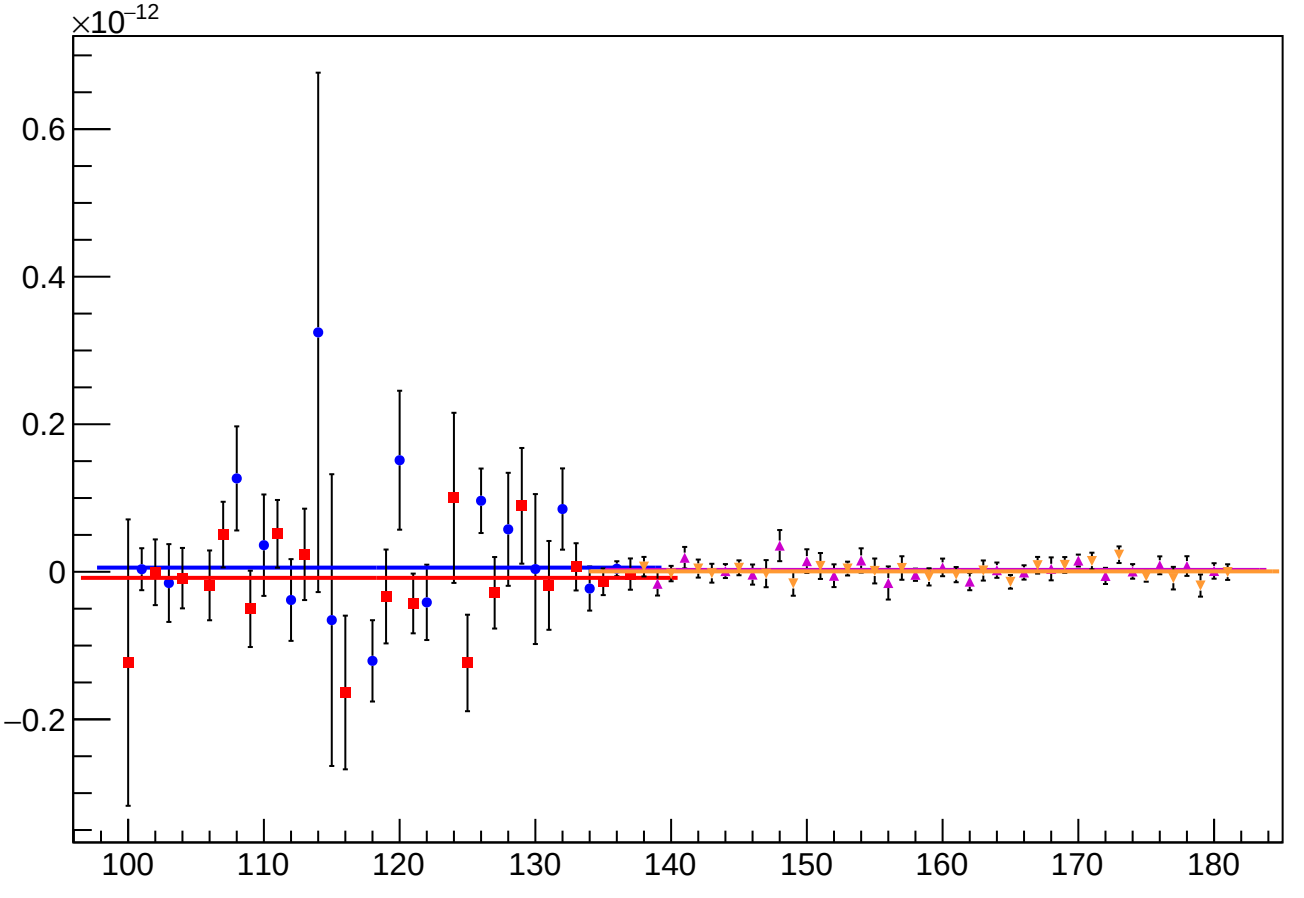
Left: 344.535+/-0.041 $\chi^2$/NDF: 824990.1/43

Right: 481.865+/-0.092 $\chi^2$/NDF: 1857489.5/34

In: 367.297+/-0.054 $\chi^2$/NDF:2162054.8/36

Out: 367.636+/-0.053 $\chi^2$/NDF:2377587.4/41

All: 367.471+/-0.038 $\chi^2$/NDF: 4539662.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14.6/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.6/20

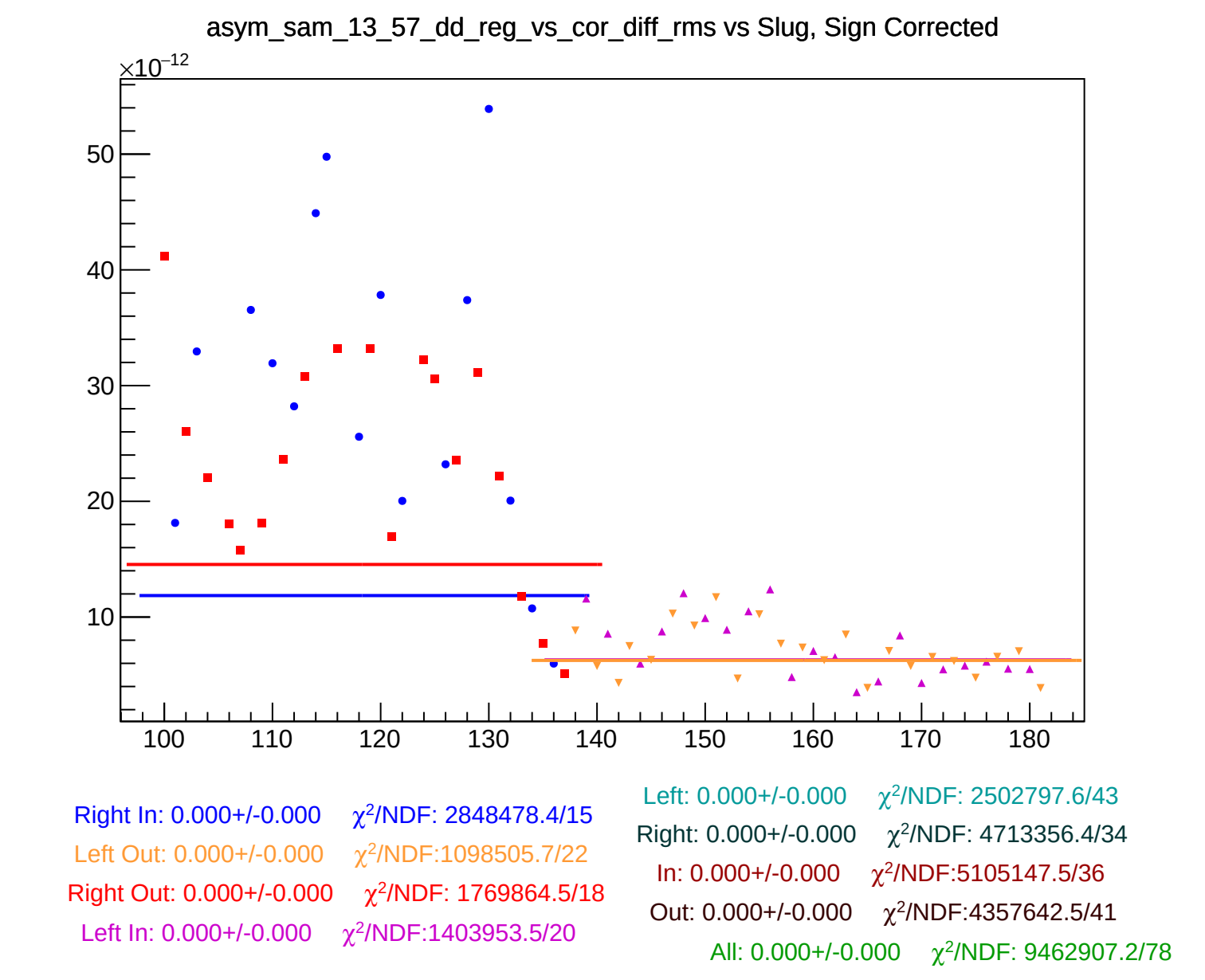
Left: 0.000+/-0.000 $\chi^2$/NDF: 28.5/43

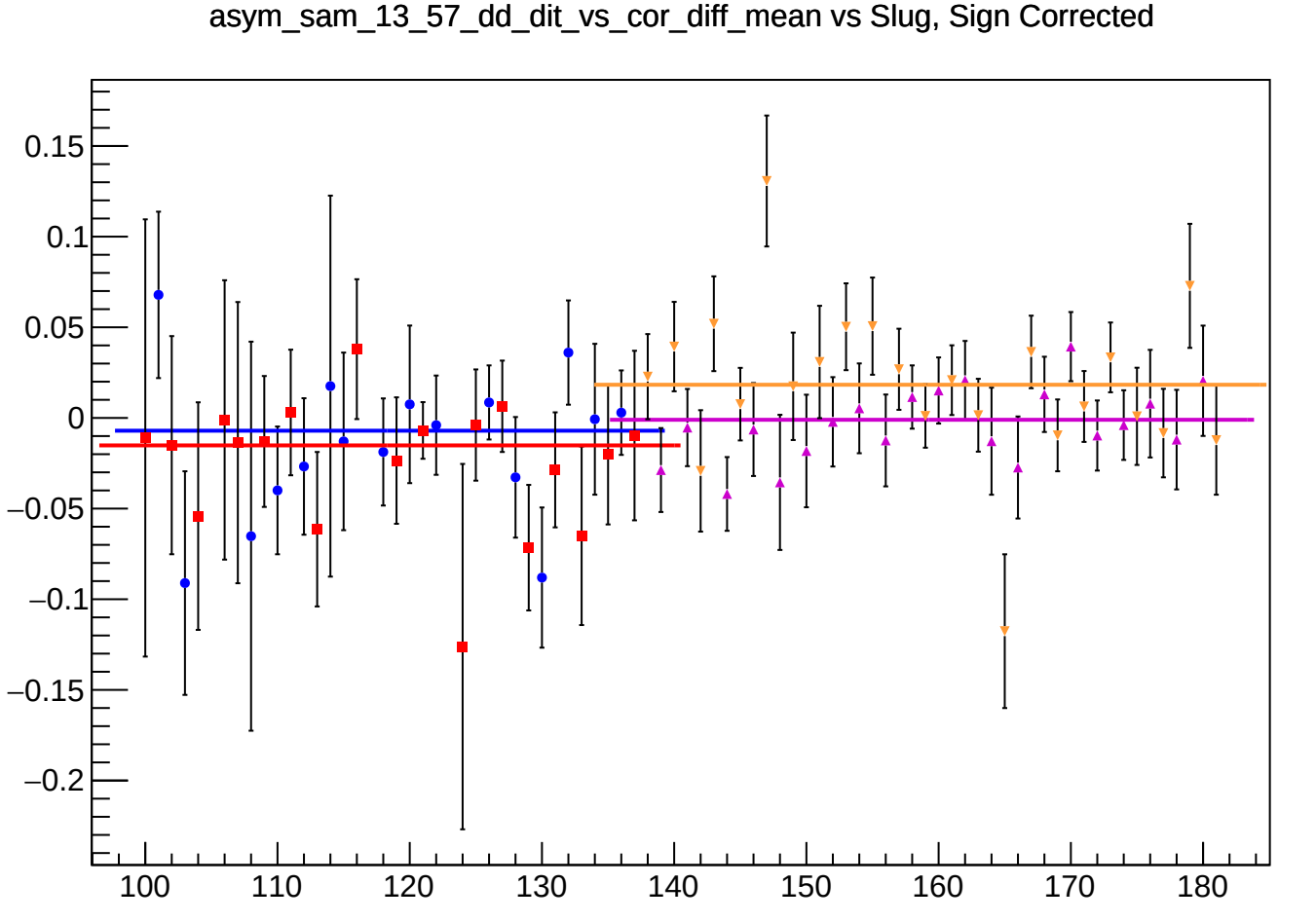
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:34.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:29.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 65.0/78


asym_sam_13_57_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2848478.4/15
Left Out: 0.000+/-0.000 χ²/NDF:1098505.7/22
Right Out: 0.000+/-0.000 χ²/NDF: 1769864.5/18
Left In: 0.000+/-0.000 χ²/NDF:1403953.5/20
Left: 0.000+/-0.000 χ²/NDF: 2502797.6/43
Right: 0.000+/-0.000 χ²/NDF: 4713356.4/34
In: 0.000+/-0.000 χ²/NDF:5105147.5/36
Out: 0.000+/-0.000 χ²/NDF:4357642.5/41
All: 0.000+/-0.000 χ²/NDF: 9462907.2/78




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.018+/-0.005 $\chi^2$/NDF:38.9/22

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.001+/-0.005 $\chi^2$/NDF:16.3/20

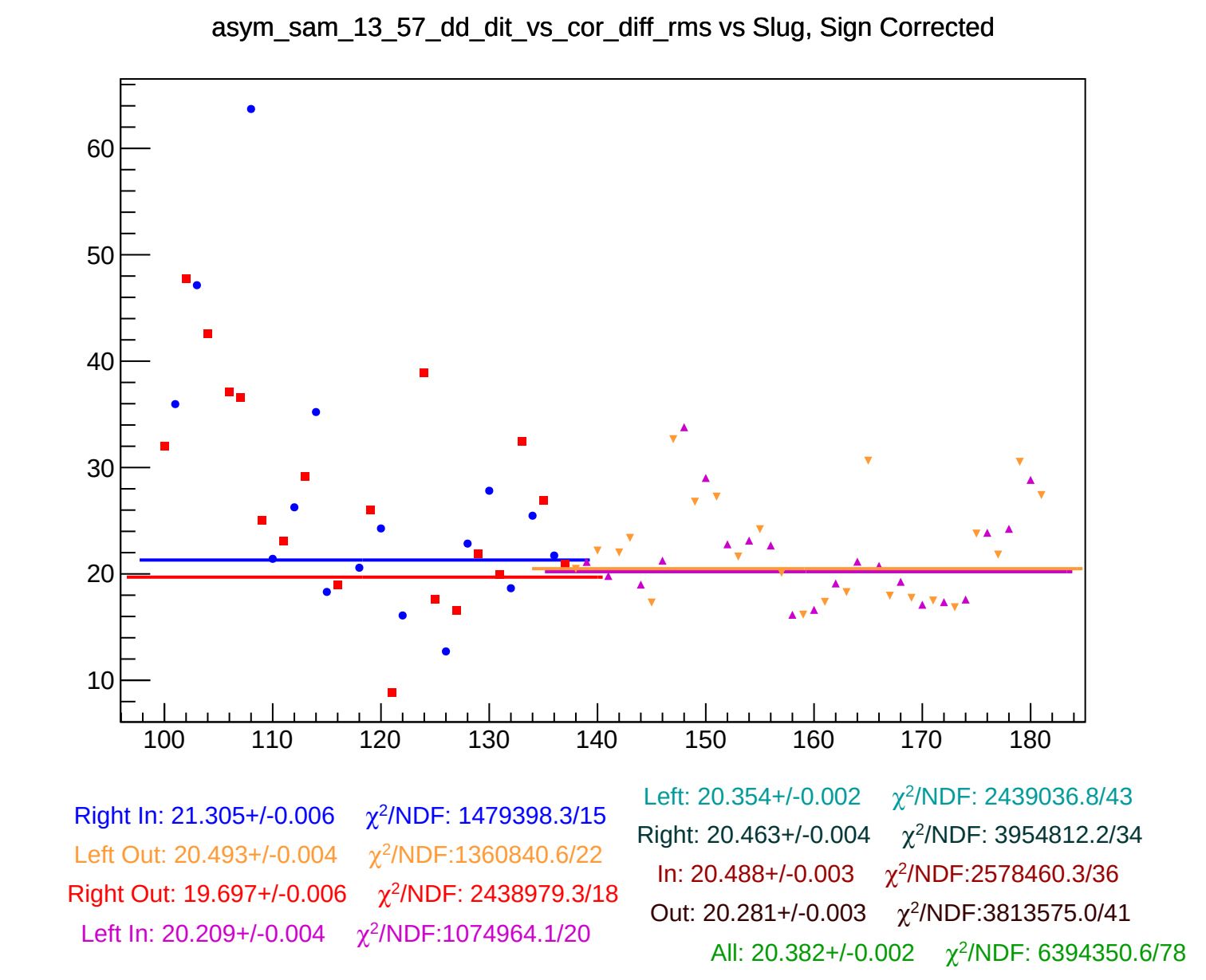
Left: 0.009+/-0.004 $\chi^2$/NDF: 62.6/43

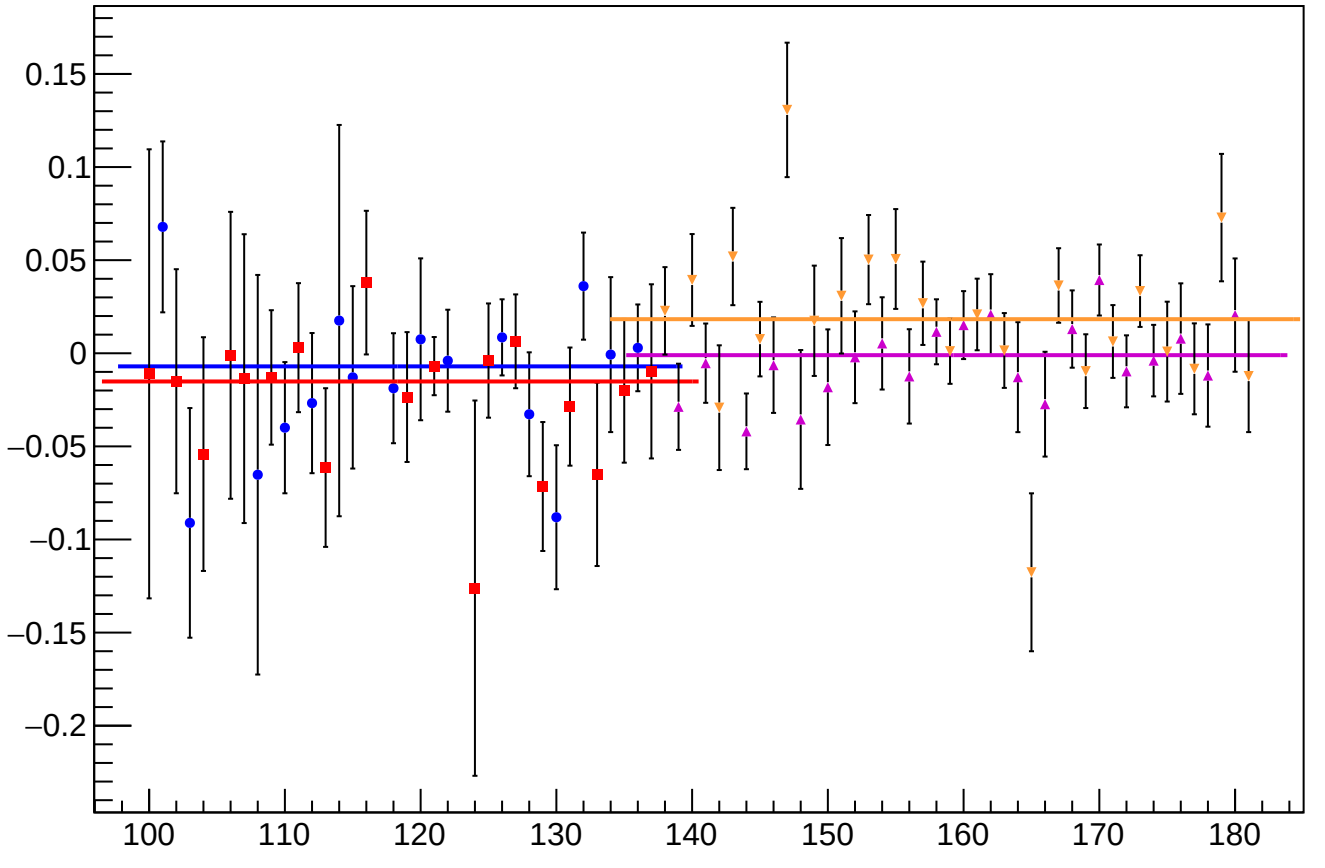
Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.003+/-0.004 $\chi^2$/NDF:31.0/36

Out: 0.009+/-0.004 $\chi^2$/NDF:61.1/41

All: 0.004+/-0.003 $\chi^2$/NDF: 95.9/78


asym_sam_13_57_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 21.305+/-0.006 χ2/NDF: 1479398.3/15
Left Out: 20.493+/-0.004 χ2/NDF:1360840.6/22
Right Out: 19.697+/-0.006 χ2/NDF: 2438979.3/18
Left In: 20.209+/-0.004 χ2/NDF:1074964.1/20
Left: 20.354+/-0.002 χ2/NDF: 2439036.8/43
Right: 20.463+/-0.004 χ2/NDF: 3954812.2/34
In: 20.488+/-0.003 χ2/NDF:2578460.3/36
Out: 20.281+/-0.003 χ2/NDF:3813575.0/41
All: 20.382+/-0.002 χ2/NDF: 6394350.6/78




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.018+/-0.005 $\chi^2$/NDF:38.9/22

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.001+/-0.005 $\chi^2$/NDF:16.3/20

Left: 0.009+/-0.004 $\chi^2$/NDF: 62.6/43

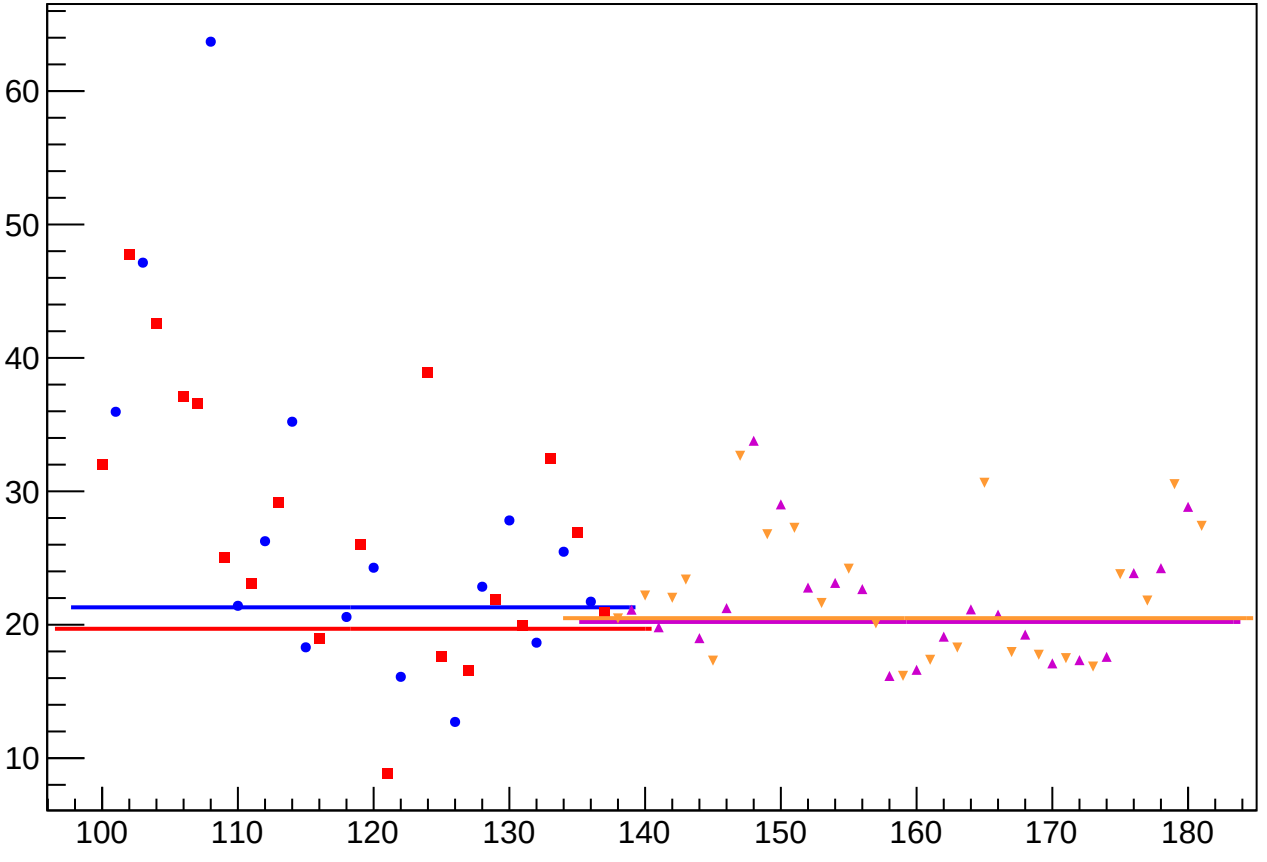
Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.003+/-0.004 $\chi^2$/NDF:31.0/36

Out: 0.009+/-0.004 $\chi^2$/NDF:61.1/41

All: 0.004+/-0.003 $\chi^2$/NDF: 95.9/78

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.305+/-0.006 $\chi^2$/NDF: 1479398.3/15

Left Out: 20.493+/-0.004 $\chi^2$/NDF:1360840.6/22

Right Out: 19.697+/-0.006 $\chi^2$/NDF: 2438979.3/18

Left In: 20.209+/-0.004 $\chi^2$/NDF:1074964.1/20

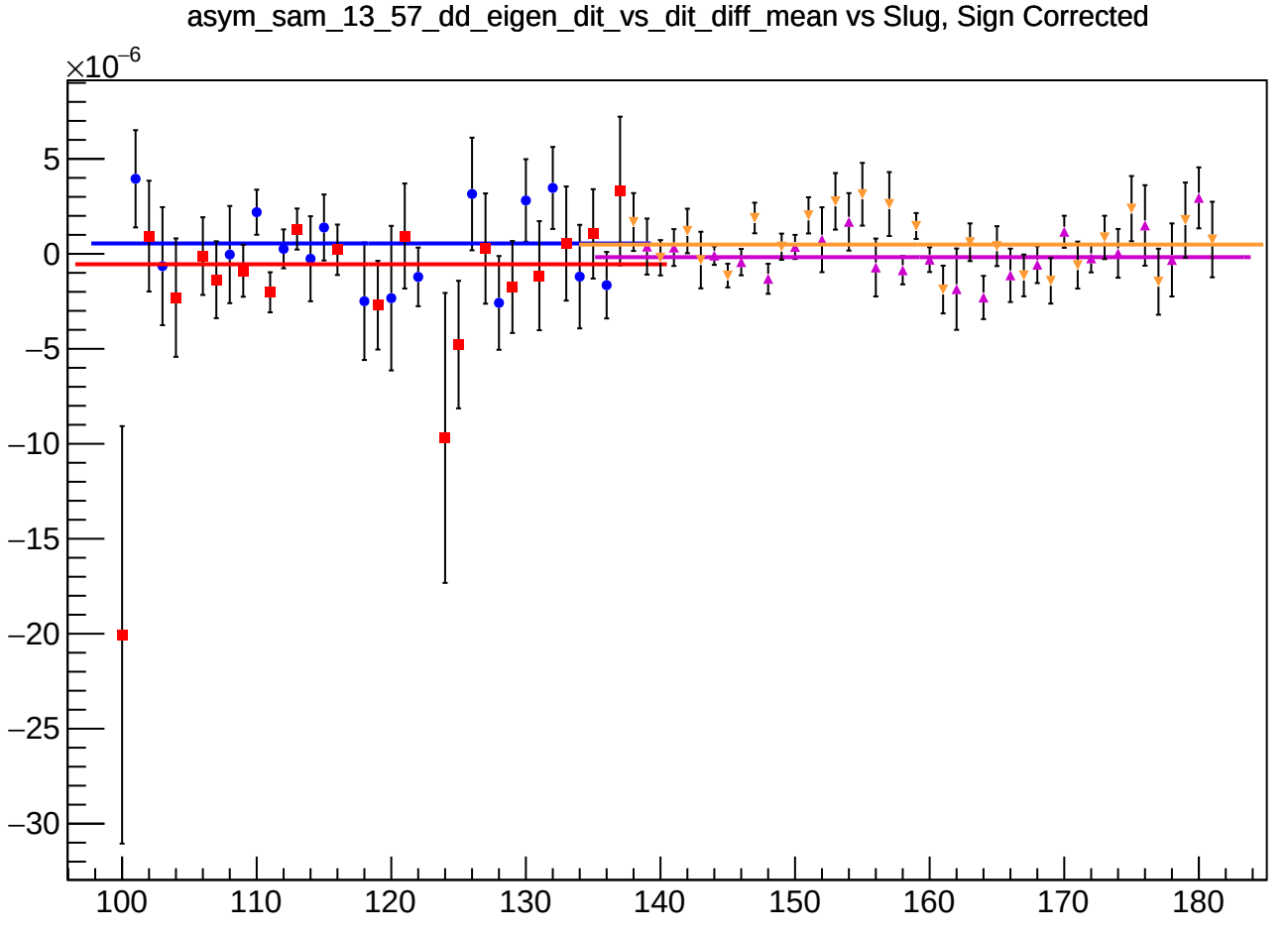
Left: 20.354+/-0.002 $\chi^2$/NDF: 2439036.8/43

Right: 20.463+/-0.004 $\chi^2$/NDF: 3954812.2/34

In: 20.488+/-0.003 $\chi^2$/NDF:2578460.3/36

Out: 20.281+/-0.003 $\chi^2$/NDF:3813575.0/41

All: 20.382+/-0.002 $\chi^2$/NDF: 6394350.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:35.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.9/20

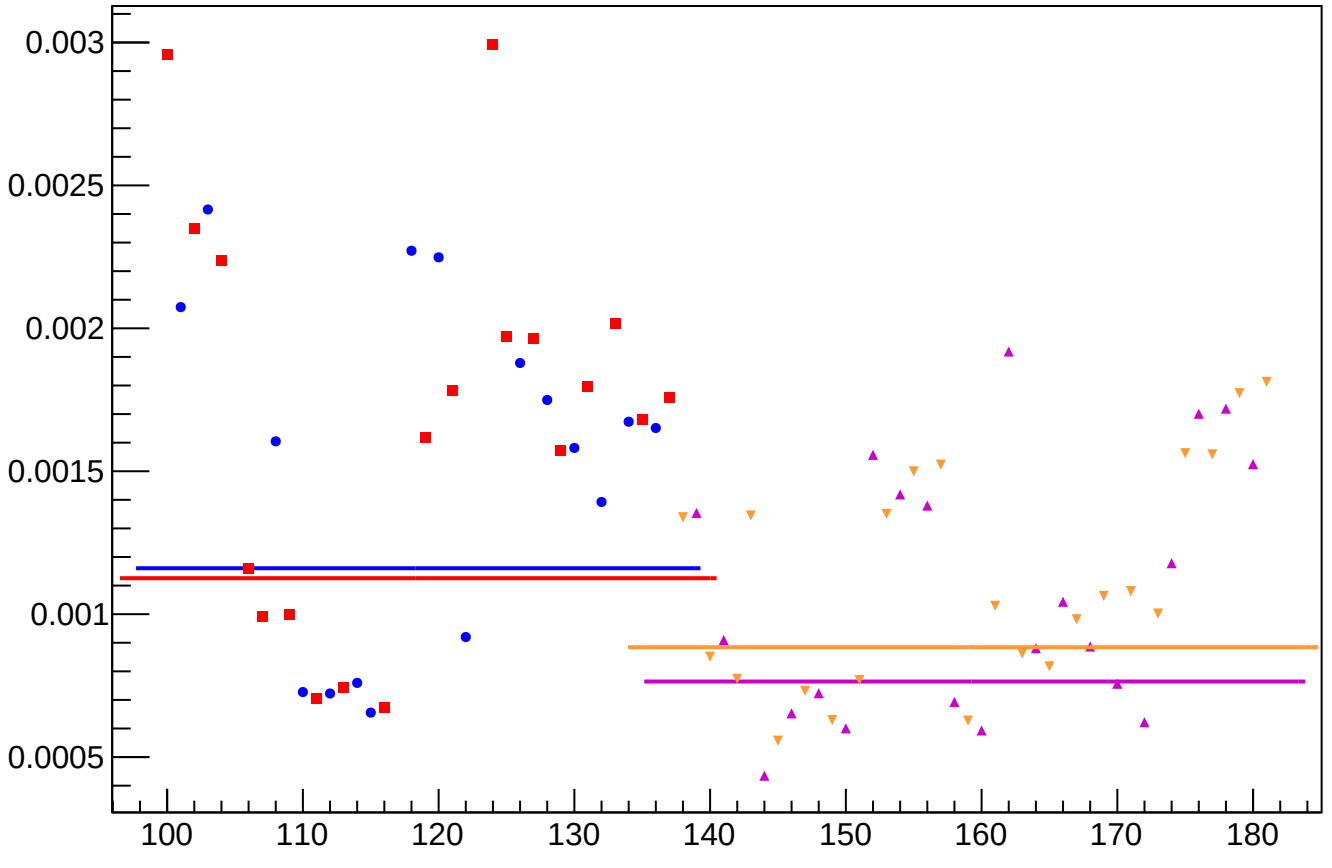
Left: 0.000+/-0.000 $\chi^2$/NDF: 57.7/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:34.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:54.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 90.4/78




Right In: 0.001+/-0.000 $\chi^2$/NDF: 2534643.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:3983549.6/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2623987.9/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:5078047.2/20

Left: 0.001+/-0.000 $\chi^2$/NDF: 9379974.8/43

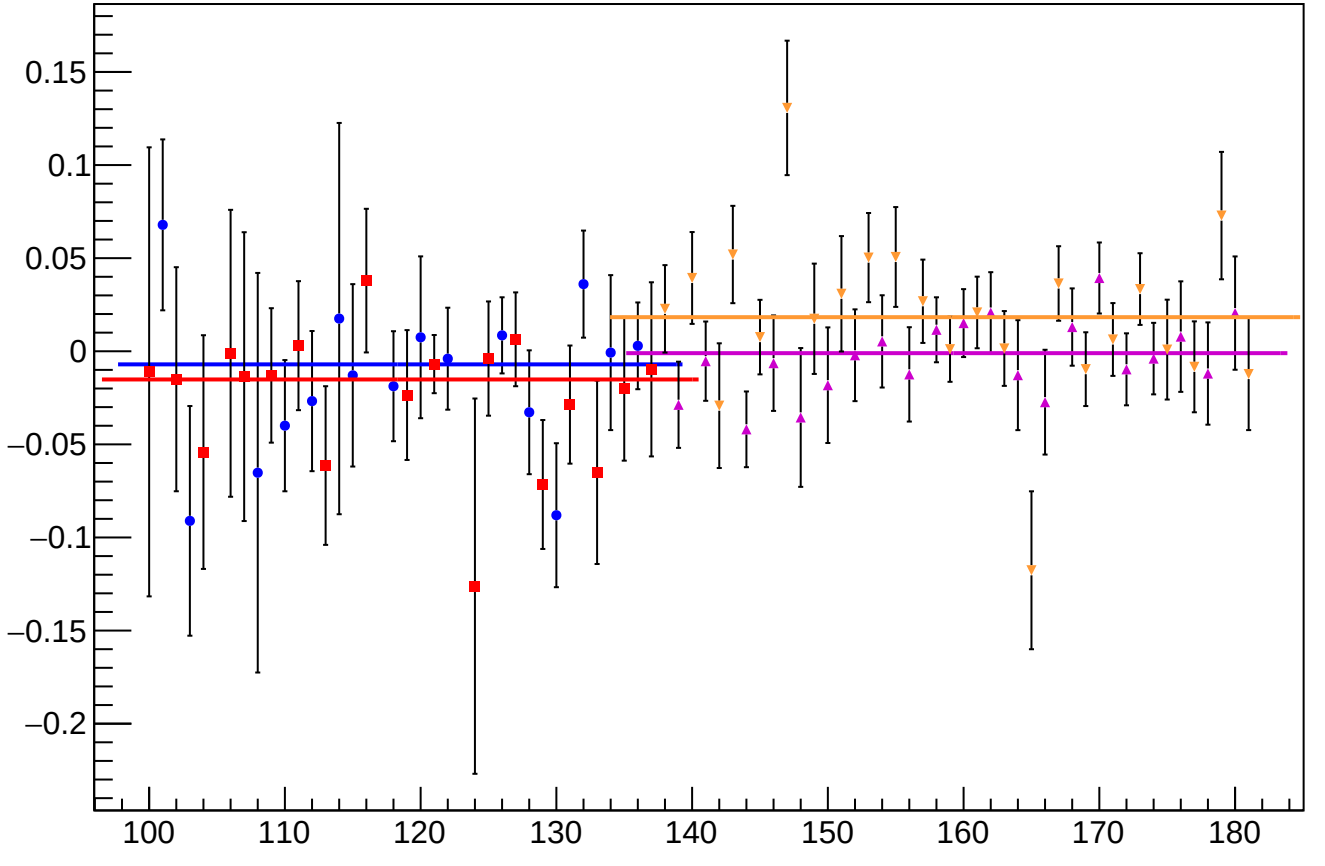
Right: 0.001+/-0.000 $\chi^2$/NDF: 5164155.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:8776210.2/36

Out: 0.001+/-0.000 $\chi^2$/NDF:7055891.7/41

All: 0.001+/-0.000 $\chi^2$/NDF: 16134106.6/78

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.018+/-0.005 $\chi^2$/NDF:38.9/22

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.001+/-0.005 $\chi^2$/NDF:16.3/20

Left: 0.009+/-0.004 $\chi^2$/NDF: 62.6/43

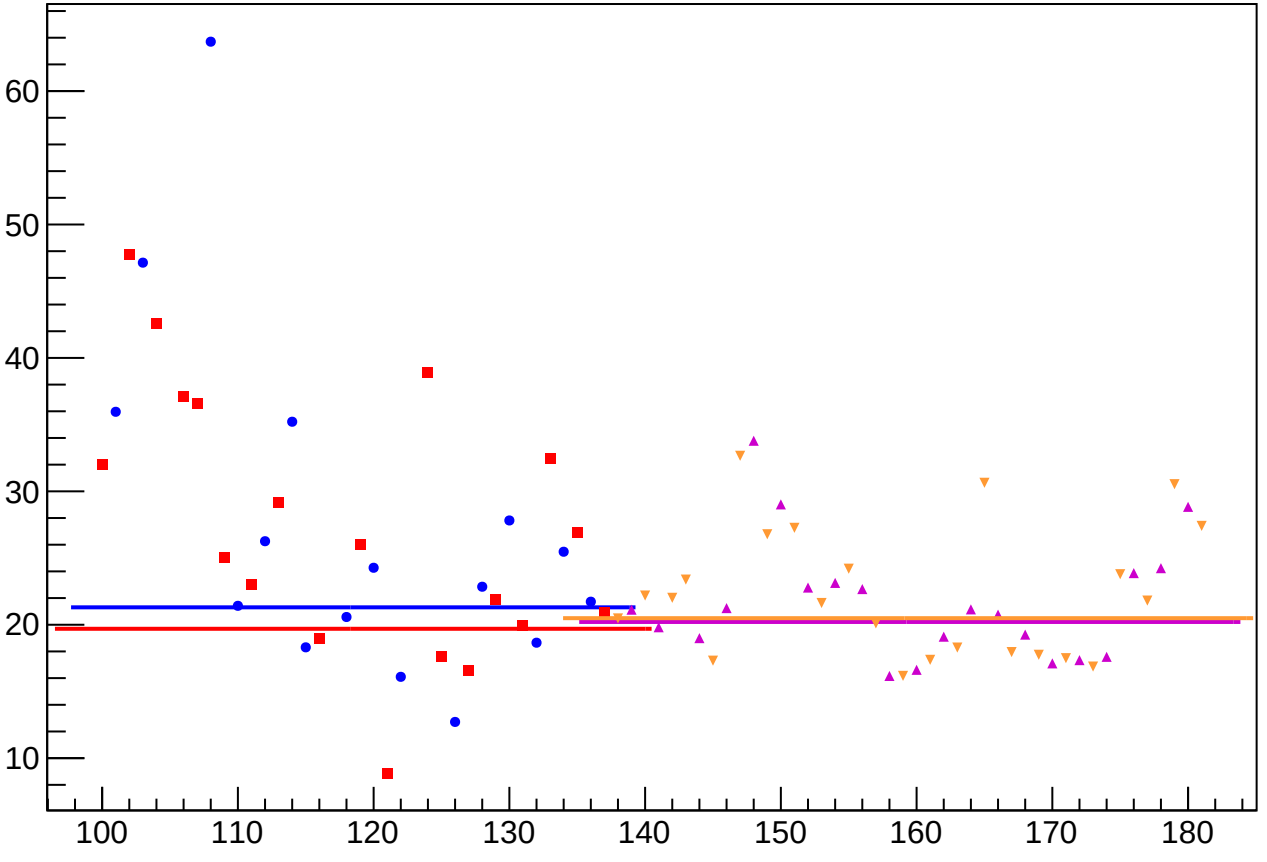
Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.003+/-0.004 $\chi^2$/NDF:31.0/36

Out: 0.009+/-0.004 $\chi^2$/NDF:61.1/41

All: 0.004+/-0.003 $\chi^2$/NDF: 95.9/78

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.306+/-0.006 $\chi^2$/NDF: 1479231.5/15

Left Out: 20.493+/-0.004 $\chi^2$/NDF:1360941.2/22

Right Out: 19.698+/-0.006 $\chi^2$/NDF: 2438612.4/18

Left In: 20.209+/-0.004 $\chi^2$/NDF:1075018.1/20

Left: 20.353+/-0.002 $\chi^2$/NDF: 2439189.5/43

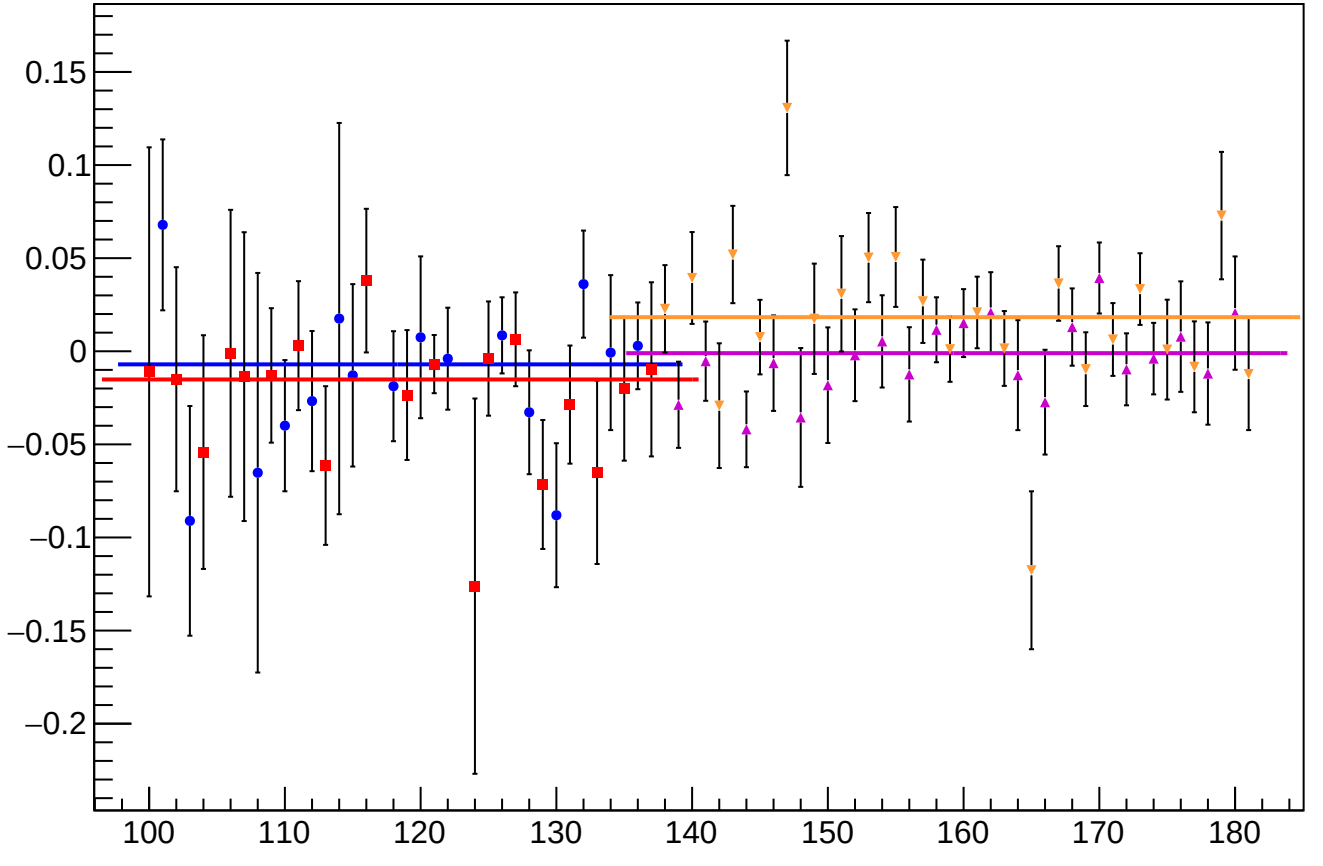
Right: 20.464+/-0.004 $\chi^2$/NDF: 3954261.4/34

In: 20.488+/-0.003 $\chi^2$/NDF:2578358.7/36

Out: 20.281+/-0.003 $\chi^2$/NDF:3813284.0/41

All: 20.382+/-0.002 $\chi^2$/NDF: 6393957.1/78

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.018+/-0.005 $\chi^2$/NDF:38.9/22

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.001+/-0.005 $\chi^2$/NDF:16.3/20

Left: 0.009+/-0.004 $\chi^2$/NDF: 62.6/43

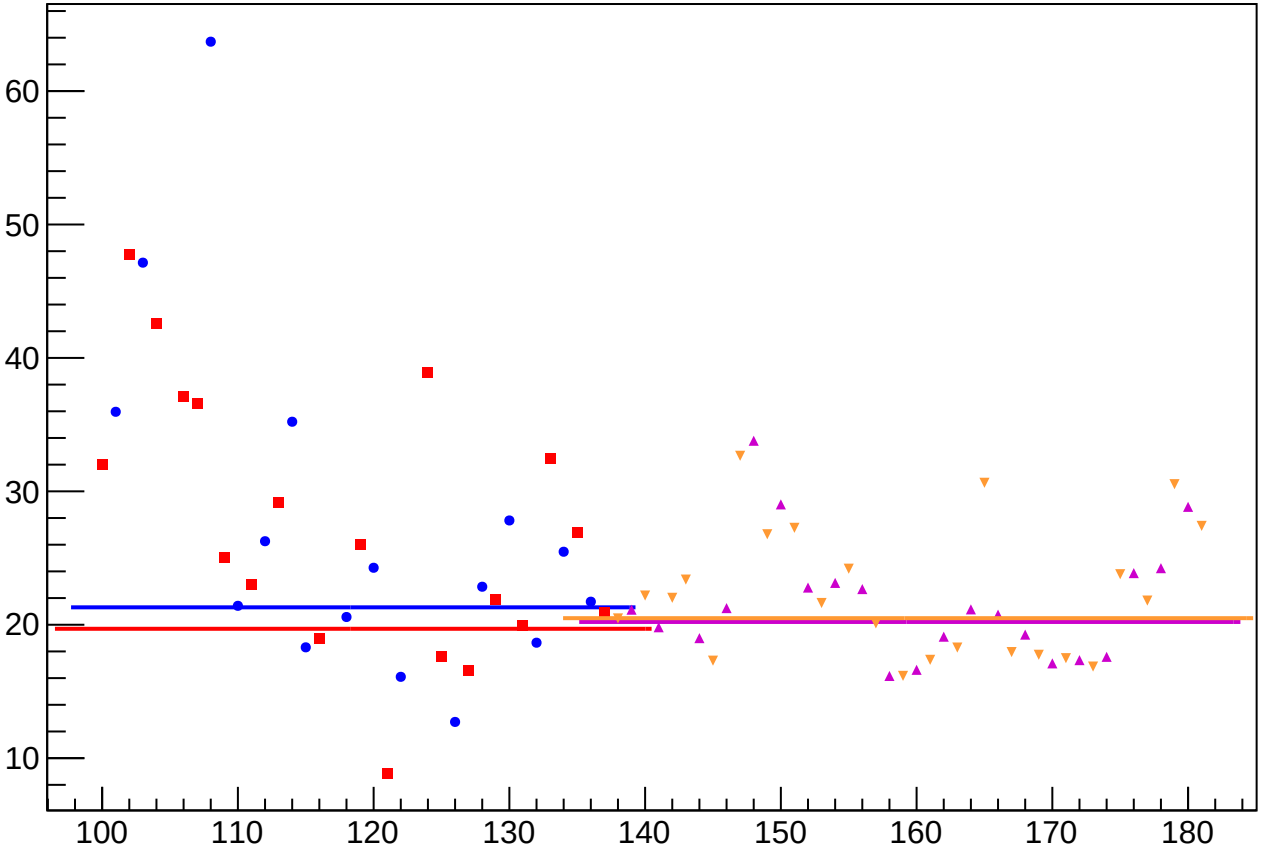
Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.003+/-0.004 $\chi^2$/NDF:31.0/36

Out: 0.009+/-0.004 $\chi^2$/NDF:61.1/41

All: 0.004+/-0.003 $\chi^2$/NDF: 95.9/78

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.306+/-0.006 $\chi^2$/NDF: 1479231.5/15

Left Out: 20.493+/-0.004 $\chi^2$/NDF:1360941.2/22

Right Out: 19.698+/-0.006 $\chi^2$/NDF: 2438612.4/18

Left In: 20.209+/-0.004 $\chi^2$/NDF:1075018.1/20

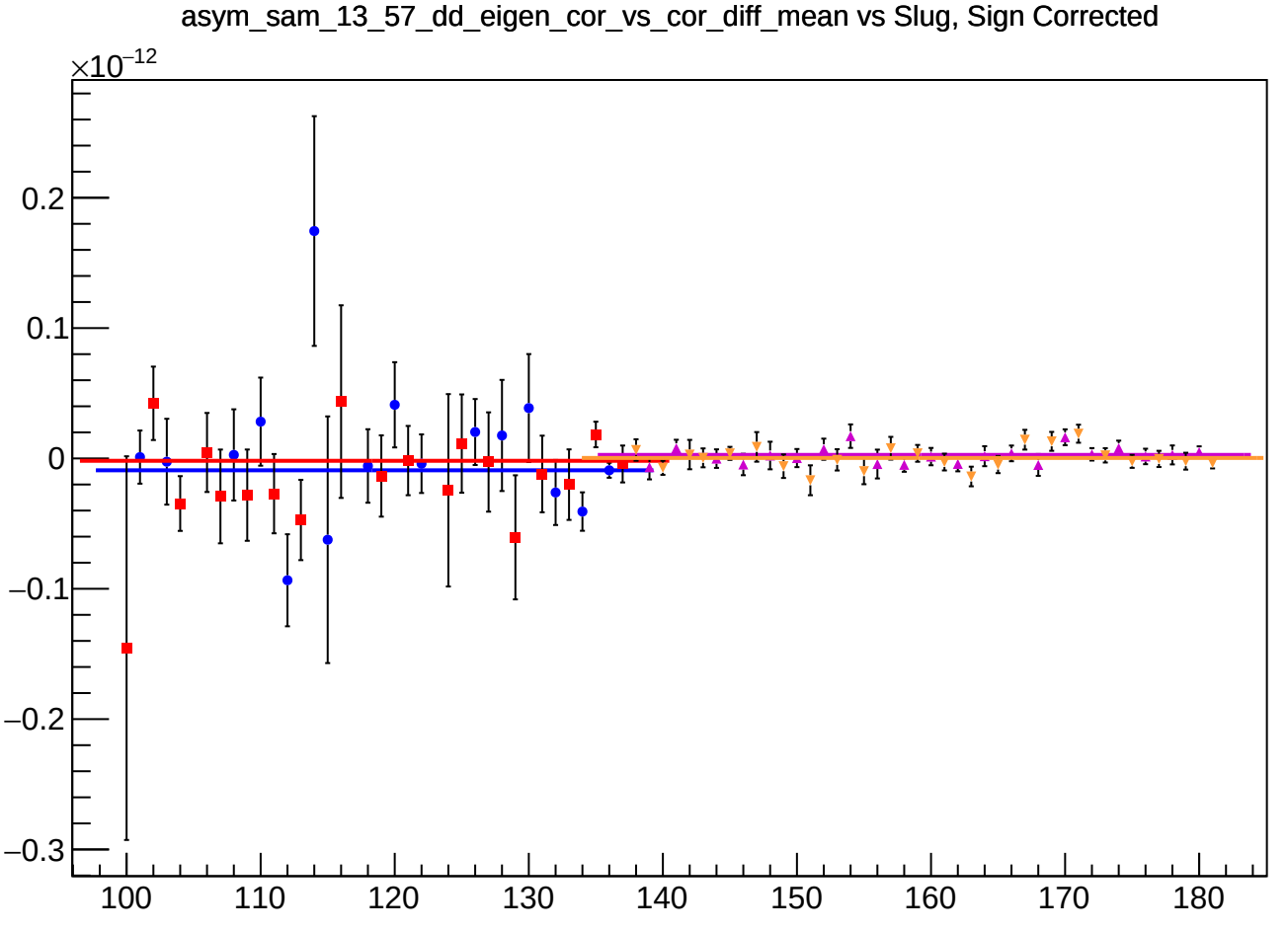
Left: 20.353+/-0.002 $\chi^2$/NDF: 2439189.5/43

Right: 20.464+/-0.004 $\chi^2$/NDF: 3954261.4/34

In: 20.488+/-0.003 $\chi^2$/NDF:2578358.7/36

Out: 20.281+/-0.003 $\chi^2$/NDF:3813284.0/41

All: 20.382+/-0.002 $\chi^2$/NDF: 6393957.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:28.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:16.5/20

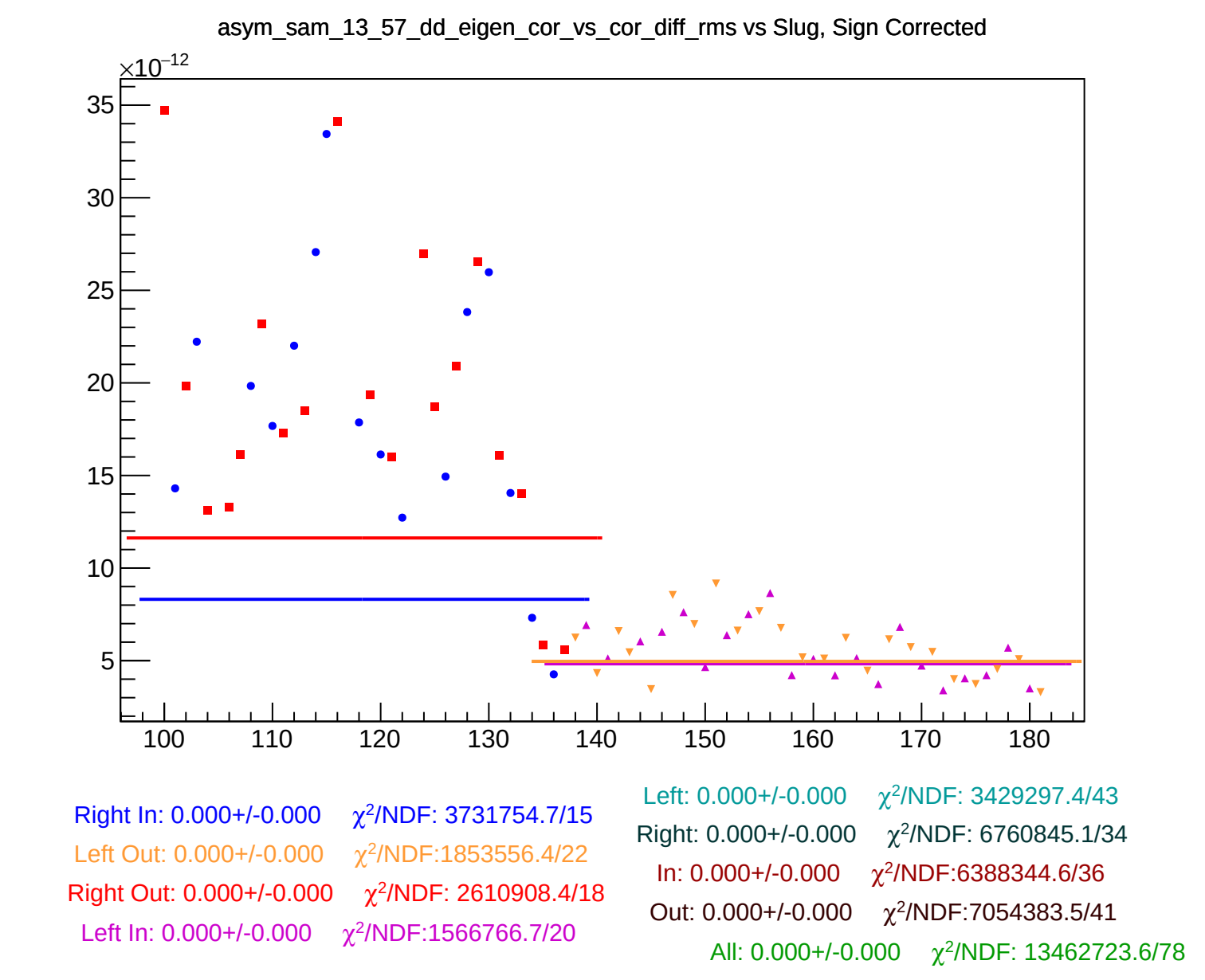
Left: 0.000+/-0.000 $\chi^2$/NDF: 45.9/43

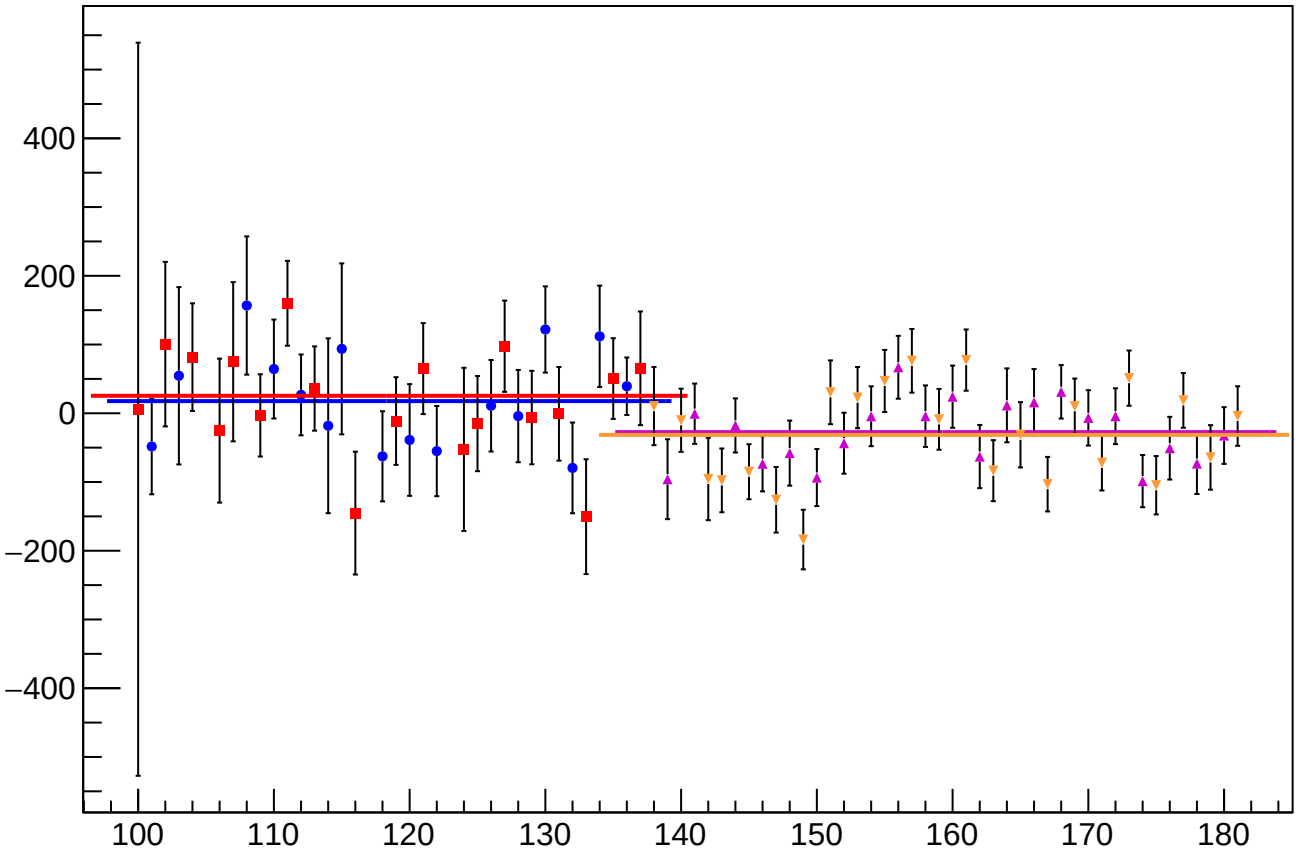
Right: -0.000+/-0.000 $\chi^2$/NDF: 40.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:45.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:45.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 91.0/78


asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
35
30
25
20
15
10
5
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 3731754.7/15
Left Out: 0.000+/-0.000 χ²/NDF:1853556.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 2610908.4/18
Left In: 0.000+/-0.000 χ²/NDF:1566766.7/20
Left: 0.000+/-0.000 χ²/NDF: 3429297.4/43
Right: 0.000+/-0.000 χ²/NDF: 6760845.1/34
In: 0.000+/-0.000 χ²/NDF:6388344.6/36
Out: 0.000+/-0.000 χ²/NDF:7054383.5/41
All: 0.000+/-0.000 χ²/NDF: 13462723.6/78




Right In: 17.701+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -31.423+/-9.255 $\chi^2$/NDF:56.3/22

Right Out: 25.440+/-17.337 $\chi^2$/NDF: 17.8/18

Left In: -27.477+/-9.530 $\chi^2$/NDF:22.0/20

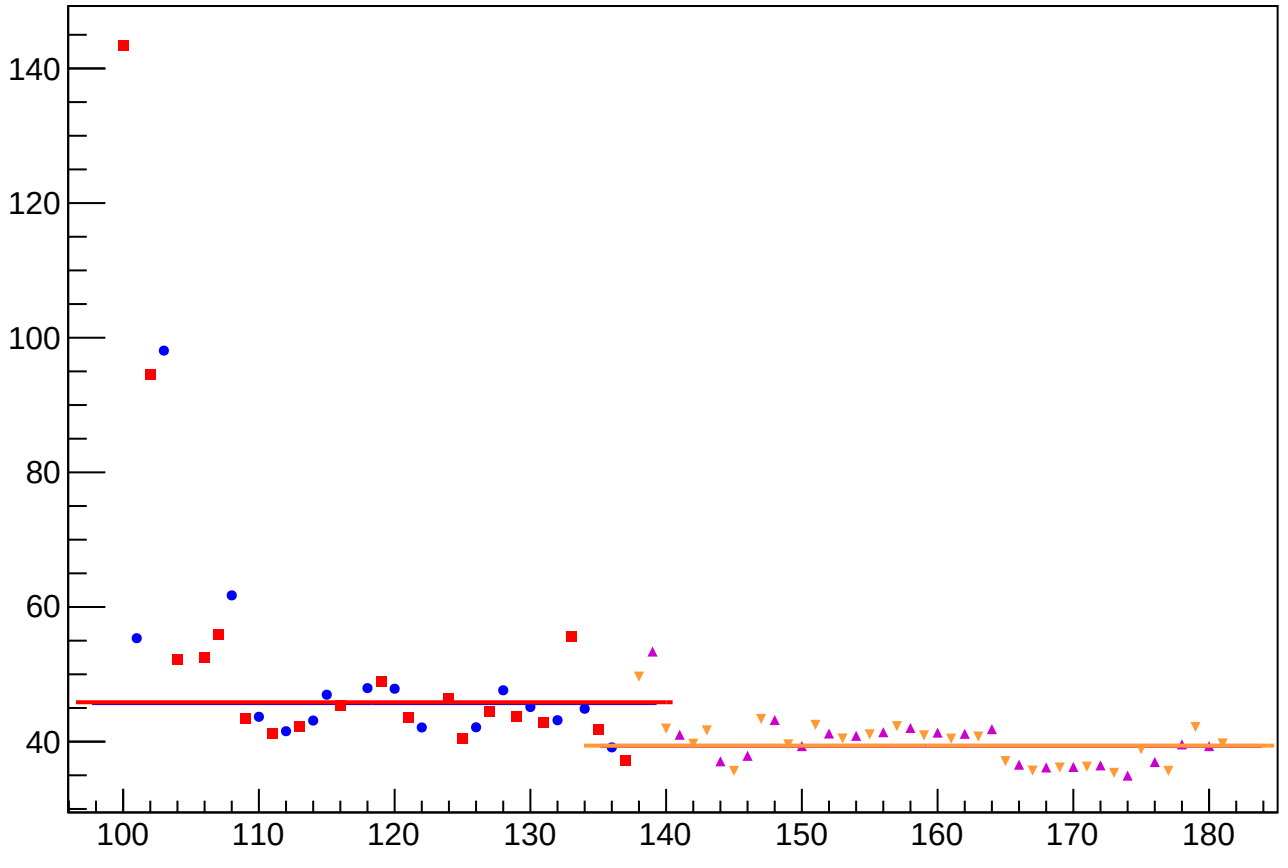
Left: -29.508+/-6.639 $\chi^2$/NDF: 78.4/43

Right: 21.600+/-12.306 $\chi^2$/NDF: 31.9/34

In: -17.117+/-8.366 $\chi^2$/NDF:41.1/36

Out: -18.811+/-8.165 $\chi^2$/NDF:82.5/41

All: -17.985+/-5.843 $\chi^2$/NDF: 123.6/78




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501460.7/15

Left Out: 39.409+/-0.007 $\chi^2$/NDF:225940.4/22

Right Out: 45.849+/-0.012 $\chi^2$/NDF: 540156.7/18

Left In: 39.362+/-0.007 $\chi^2$/NDF:244827.8/20

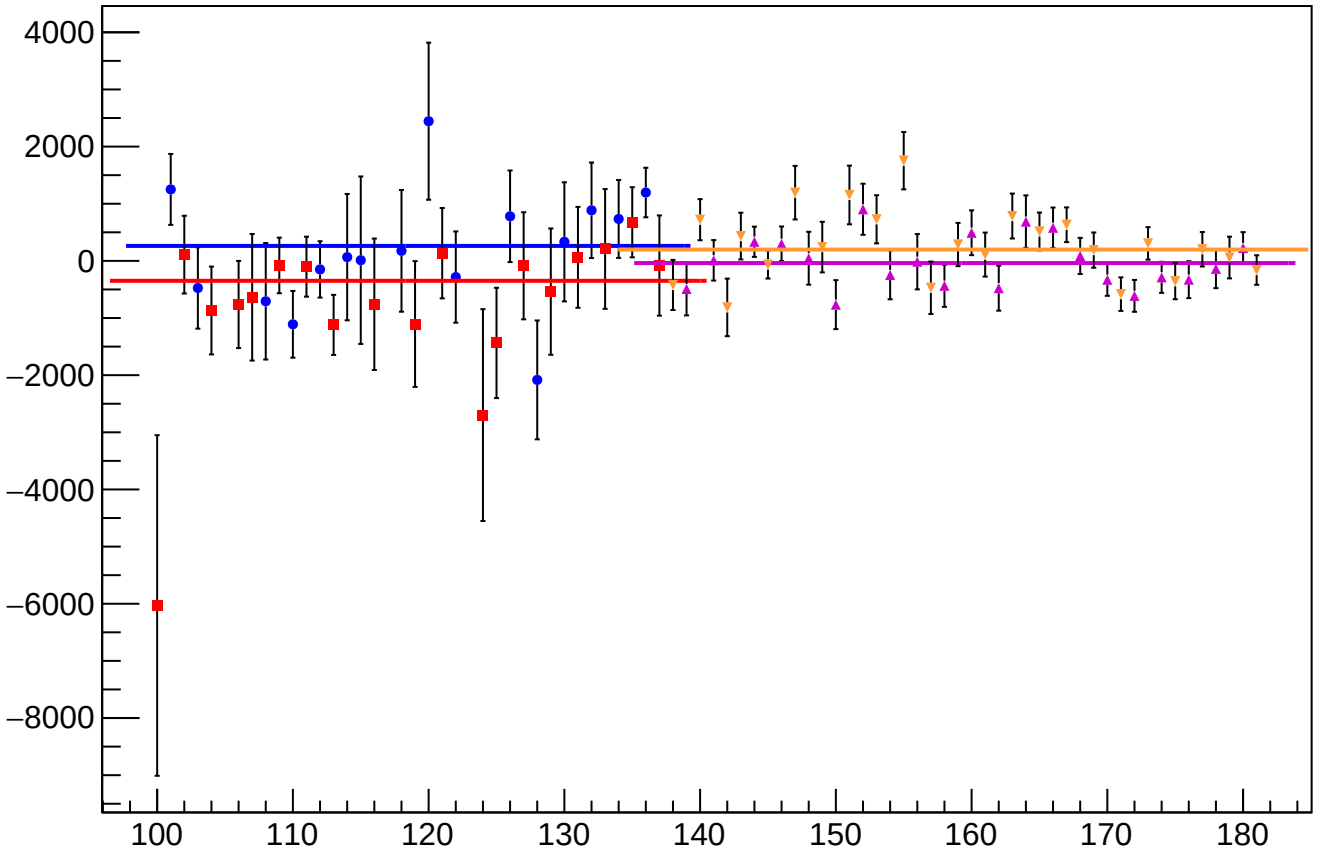
Left: 39.386+/-0.005 $\chi^2$/NDF: 470793.6/43

Right: 45.788+/-0.009 $\chi^2$/NDF: 1041667.0/34

In: 40.821+/-0.006 $\chi^2$/NDF:950893.0/36

Out: 40.837+/-0.006 $\chi^2$/NDF:980878.9/41

All: 40.830+/-0.004 $\chi^2$/NDF: 1931775.7/78




Right In: 261.943+/-185.211 $\chi^2$/NDF: 25.0/15

Left Out: 197.859+/-73.433 $\chi^2$/NDF:48.5/22

Right Out: -348.685+/-180.682 $\chi^2$/NDF: 14.9/18

Left In: -37.853+/-75.361 $\chi^2$/NDF:29.7/20

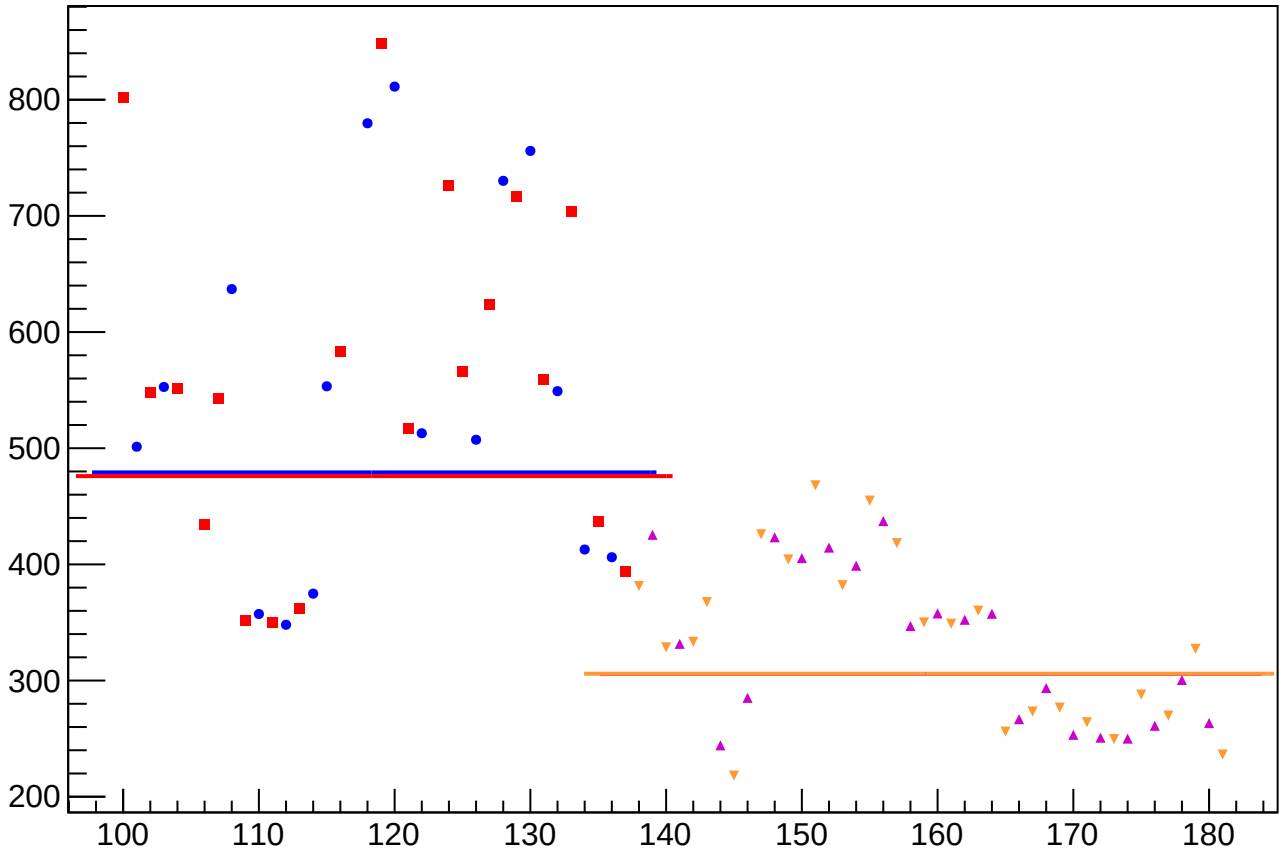
Left: 83.057+/-52.593 $\chi^2$/NDF: 83.2/43

Right: -50.928+/-129.333 $\chi^2$/NDF: 45.5/34

In: 4.731+/-69.804 $\chi^2$/NDF:56.9/36

Out: 120.381+/-68.029 $\chi^2$/NDF:71.3/41

All: 64.045+/-48.719 $\chi^2$/NDF: 129.6/78




Right In: 479.178+/-0.131 $\chi^2$/NDF: 952693.7/15

Left Out: 305.903+/-0.052 $\chi^2$/NDF:1647953.2/22

Right Out: 475.992+/-0.128 $\chi^2$/NDF: 1006487.7/18

Left In: 305.629+/-0.053 $\chi^2$/NDF:1317501.2/20

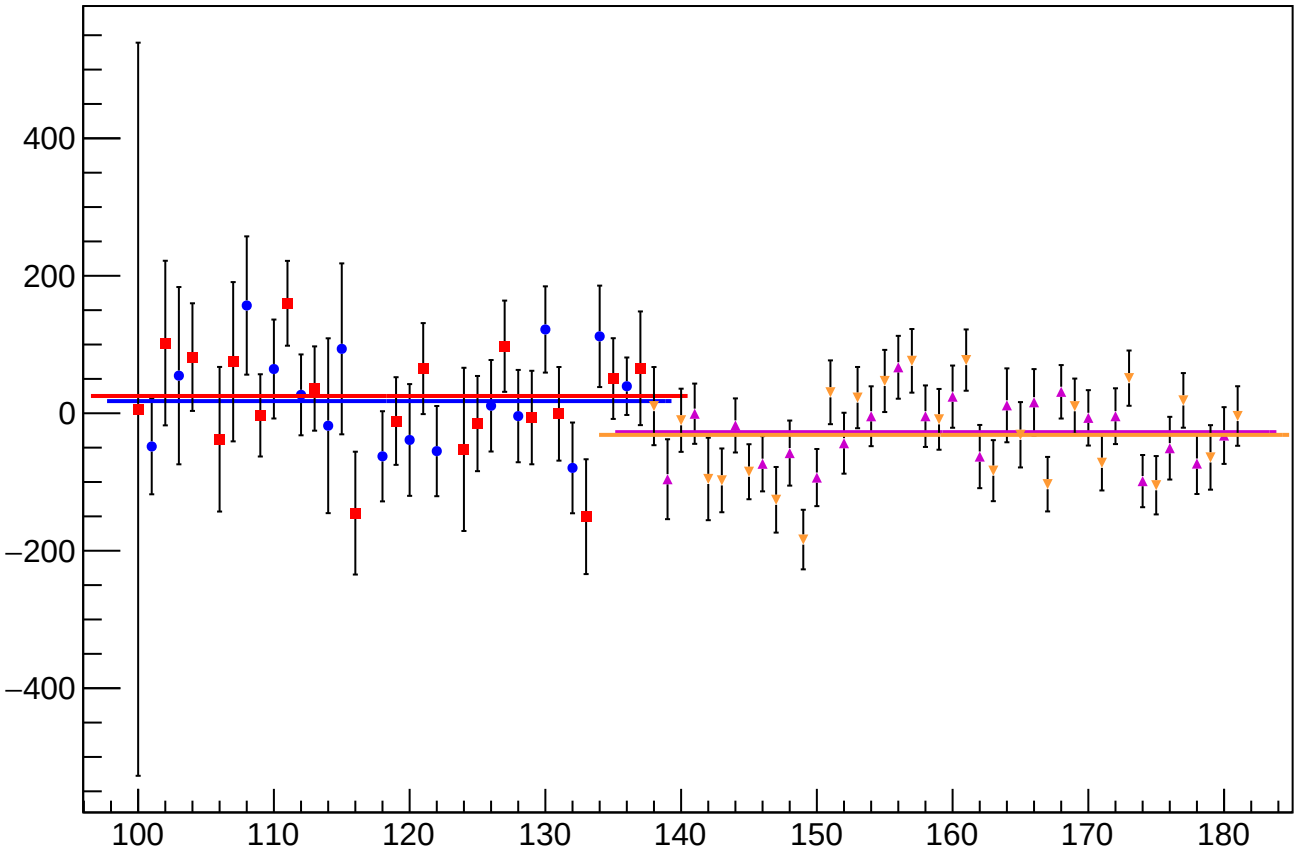
Left: 305.769+/-0.037 $\chi^2$/NDF: 2965467.9/43

Right: 477.545+/-0.091 $\chi^2$/NDF: 1959484.6/34

In: 330.281+/-0.049 $\chi^2$/NDF:3776815.3/36

Out: 330.015+/-0.048 $\chi^2$/NDF:4175554.7/41

All: 330.144+/-0.034 $\chi^2$/NDF: 7952384.9/78




Right In: 17.706+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -31.424+/-9.255 $\chi^2$/NDF:56.3/22

Right Out: 25.145+/-17.339 $\chi^2$/NDF: 18.0/18

Left In: -27.477+/-9.530 $\chi^2$/NDF:22.0/20

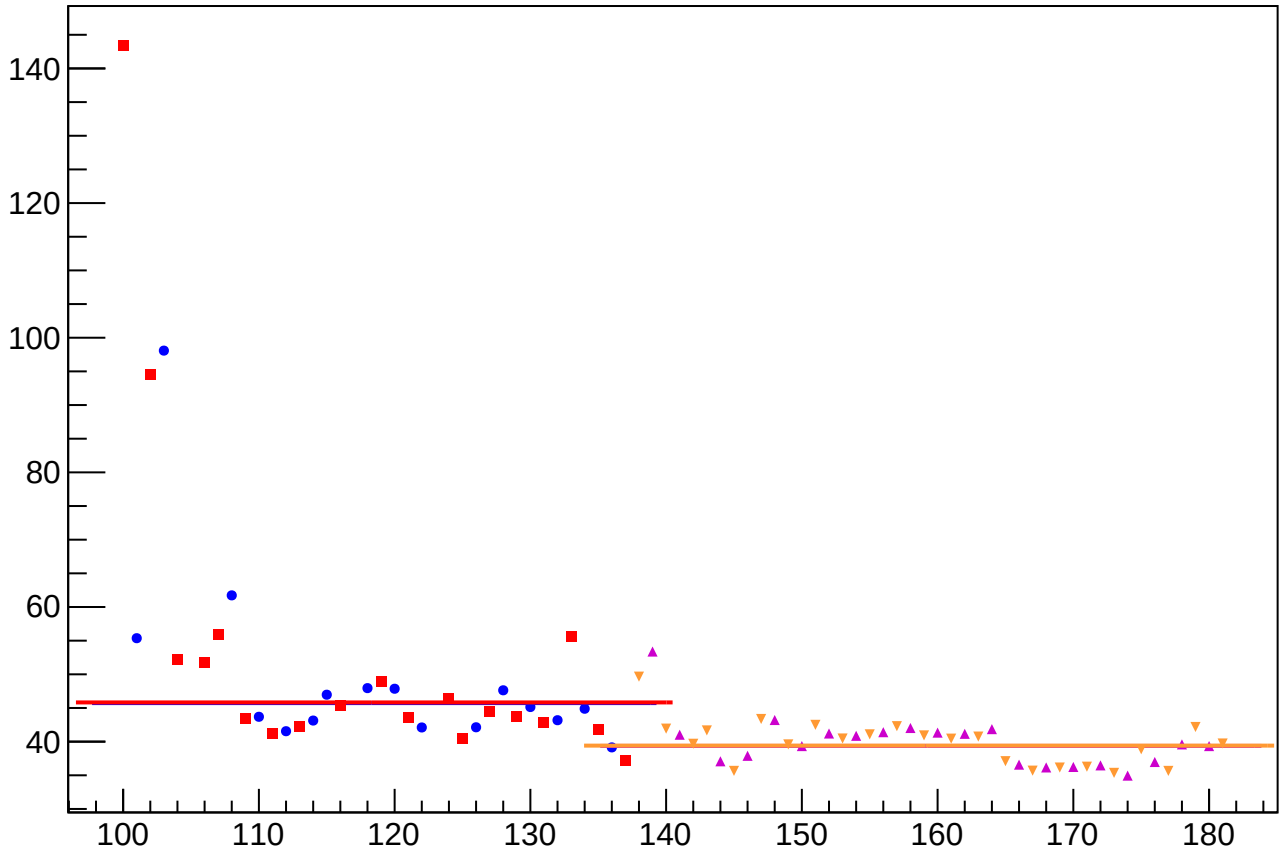
Left: -29.508+/-6.639 $\chi^2$/NDF: 78.4/43

Right: 21.453+/-12.307 $\chi^2$/NDF: 32.0/34

In: -17.115+/-8.366 $\chi^2$/NDF:41.1/36

Out: -18.880+/-8.165 $\chi^2$/NDF:82.6/41

All: -18.019+/-5.843 $\chi^2$/NDF: 123.7/78




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501463.8/15

Left Out: 39.409+/-0.007 $\chi^2$/NDF:225940.4/22

Right Out: 45.825+/-0.012 $\chi^2$/NDF: 538470.5/18

Left In: 39.362+/-0.007 $\chi^2$/NDF:244827.8/20

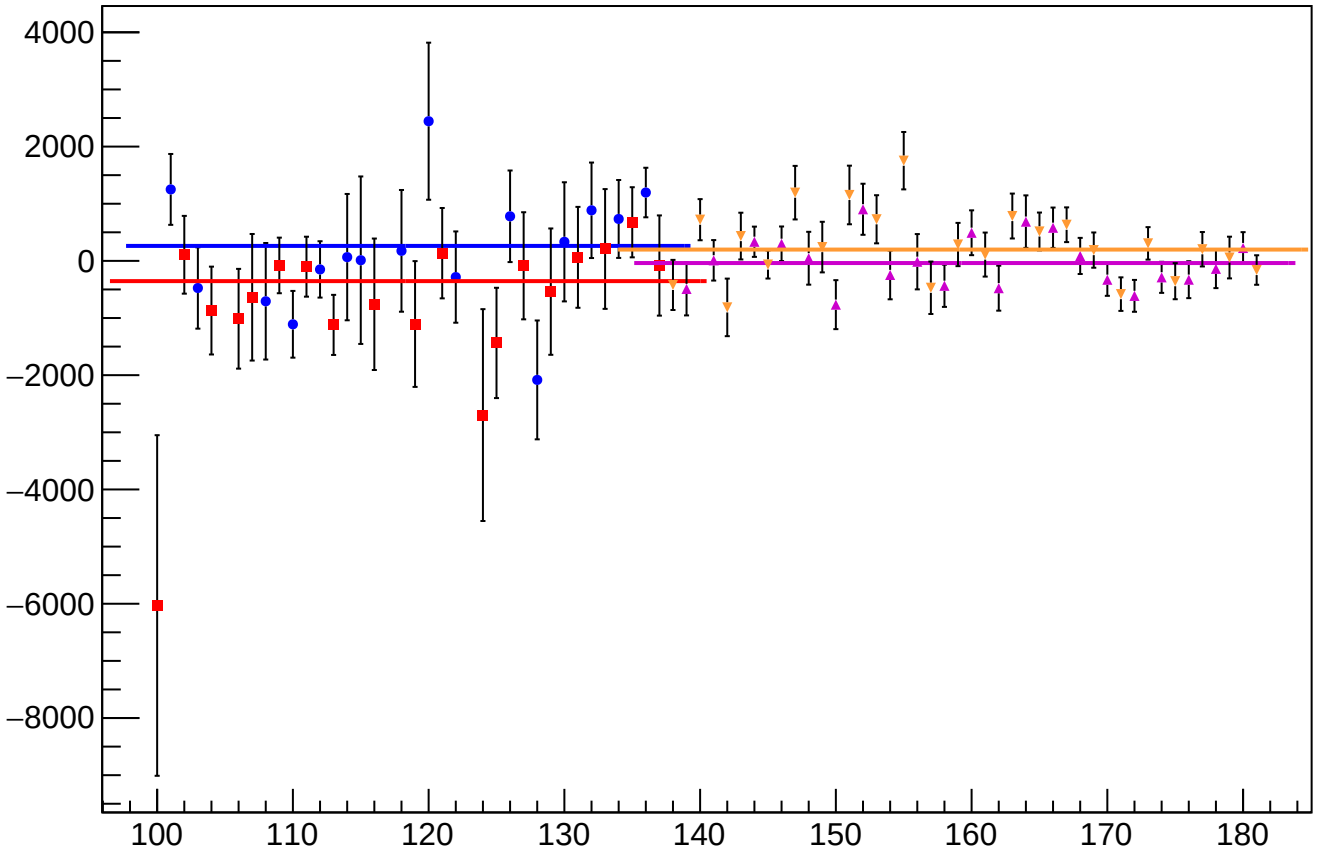
Left: 39.386+/-0.005 $\chi^2$/NDF: 470793.6/43

Right: 45.776+/-0.009 $\chi^2$/NDF: 1039966.5/34

In: 40.821+/-0.006 $\chi^2$/NDF:950896.0/36

Out: 40.832+/-0.006 $\chi^2$/NDF:977560.7/41

All: 40.827+/-0.004 $\chi^2$/NDF: 1928458.3/78




Right In: 261.947+/-185.212 $\chi^2$/NDF: 25.0/15

Left Out: 197.857+/-73.433 $\chi^2$/NDF:48.5/22

Right Out: -354.204+/-181.903 $\chi^2$/NDF: 15.2/18

Left In: -37.852+/-75.361 $\chi^2$/NDF:29.7/20

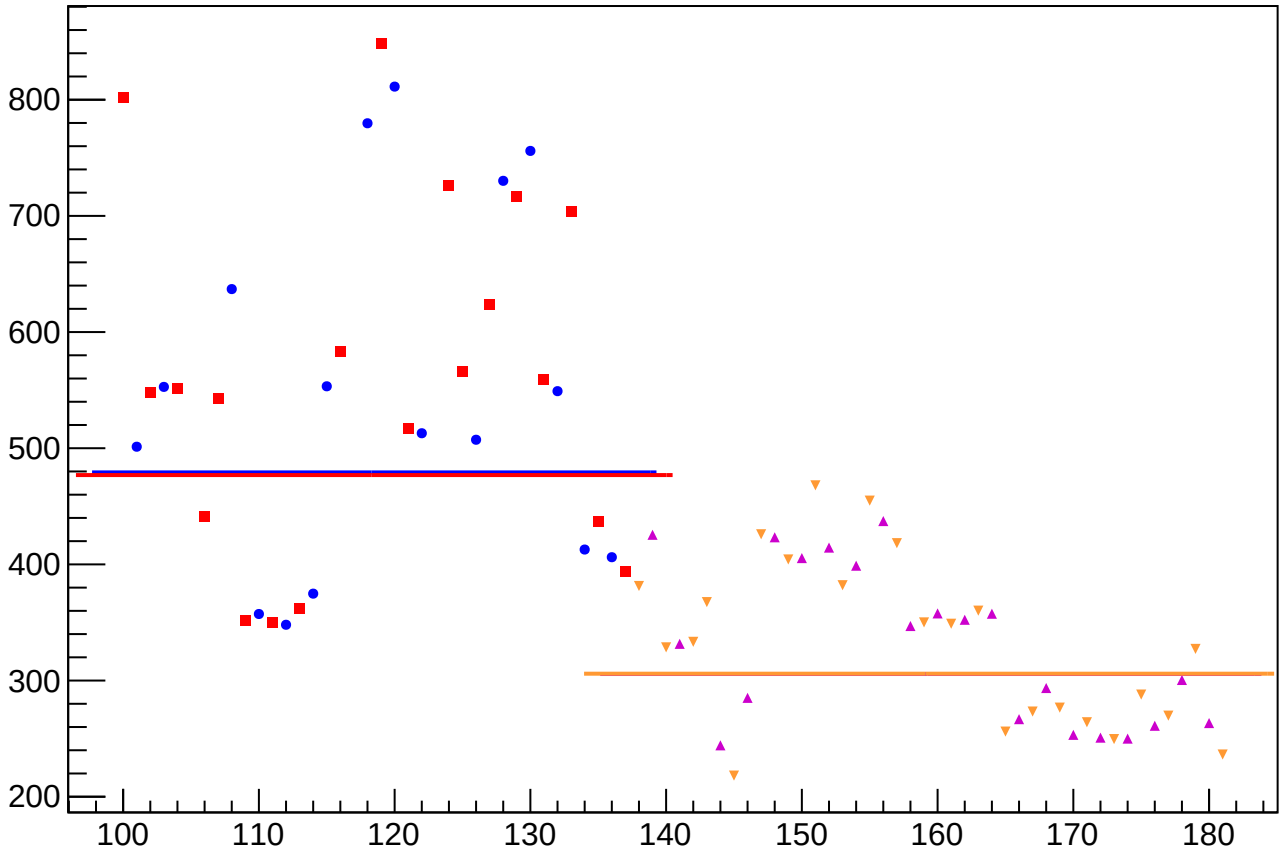
Left: 83.057+/-52.593 $\chi^2$/NDF: 83.2/43

Right: -51.682+/-129.779 $\chi^2$/NDF: 45.8/34

In: 4.733+/-69.804 $\chi^2$/NDF:56.9/36

Out: 120.497+/-68.093 $\chi^2$/NDF:71.7/41

All: 64.050+/-48.743 $\chi^2$/NDF: 130.0/78




Right In: 479.180+/-0.131 $\chi^2$/NDF: 952722.6/15

Left Out: 305.903+/-0.052 $\chi^2$/NDF:1647949.4/22

Right Out: 476.893+/-0.129 $\chi^2$/NDF: 1003767.4/18

Left In: 305.629+/-0.053 $\chi^2$/NDF:1317510.8/20

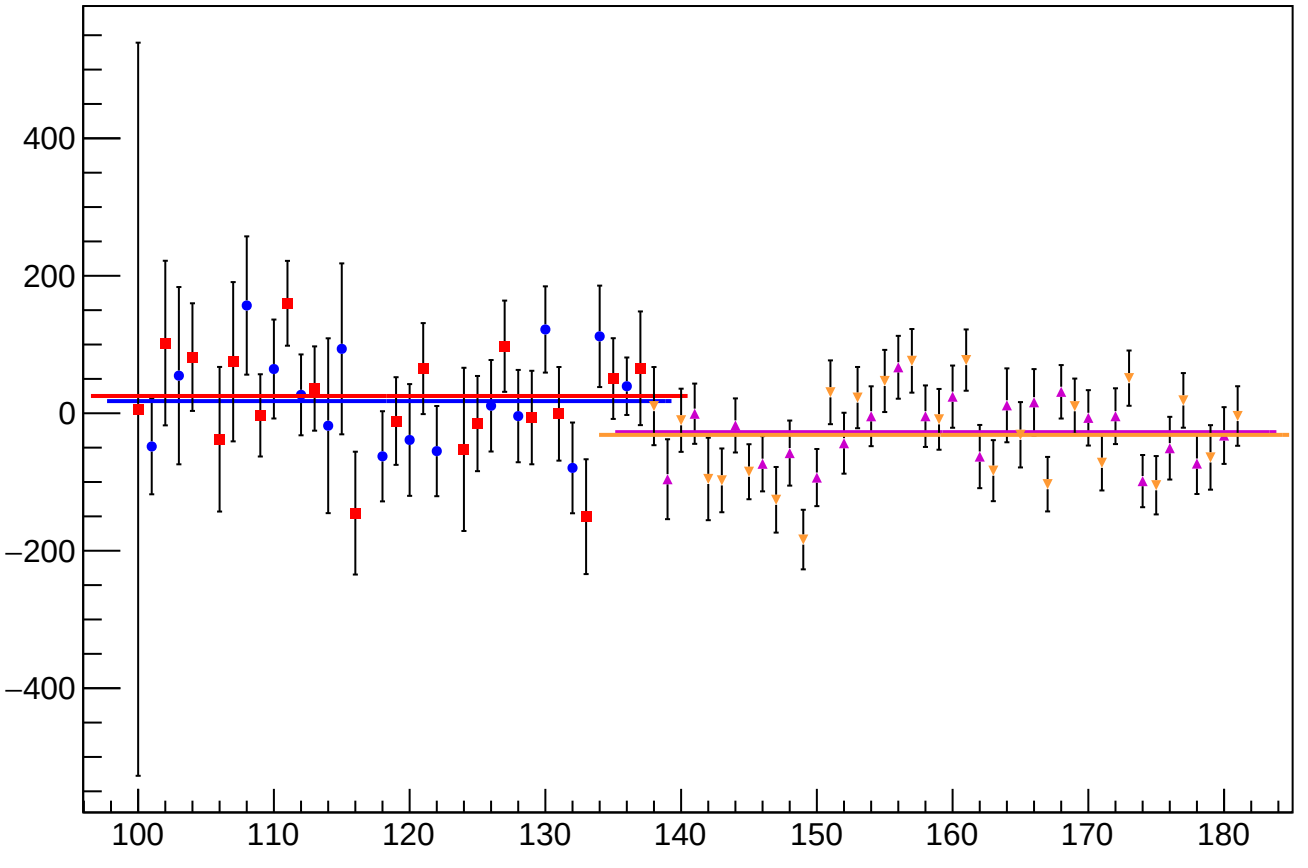
Left: 305.769+/-0.037 $\chi^2$/NDF: 2965473.8/43

Right: 478.016+/-0.092 $\chi^2$/NDF: 1956645.2/34

In: 330.281+/-0.049 $\chi^2$/NDF:3776879.3/36

Out: 329.864+/-0.048 $\chi^2$/NDF:4171306.9/41

All: 330.067+/-0.034 $\chi^2$/NDF: 7948222.8/78




Right In: 17.706+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -31.424+/-9.255 $\chi^2$/NDF:56.3/22

Right Out: 25.145+/-17.339 $\chi^2$/NDF: 18.0/18

Left In: -27.477+/-9.530 $\chi^2$/NDF:22.0/20

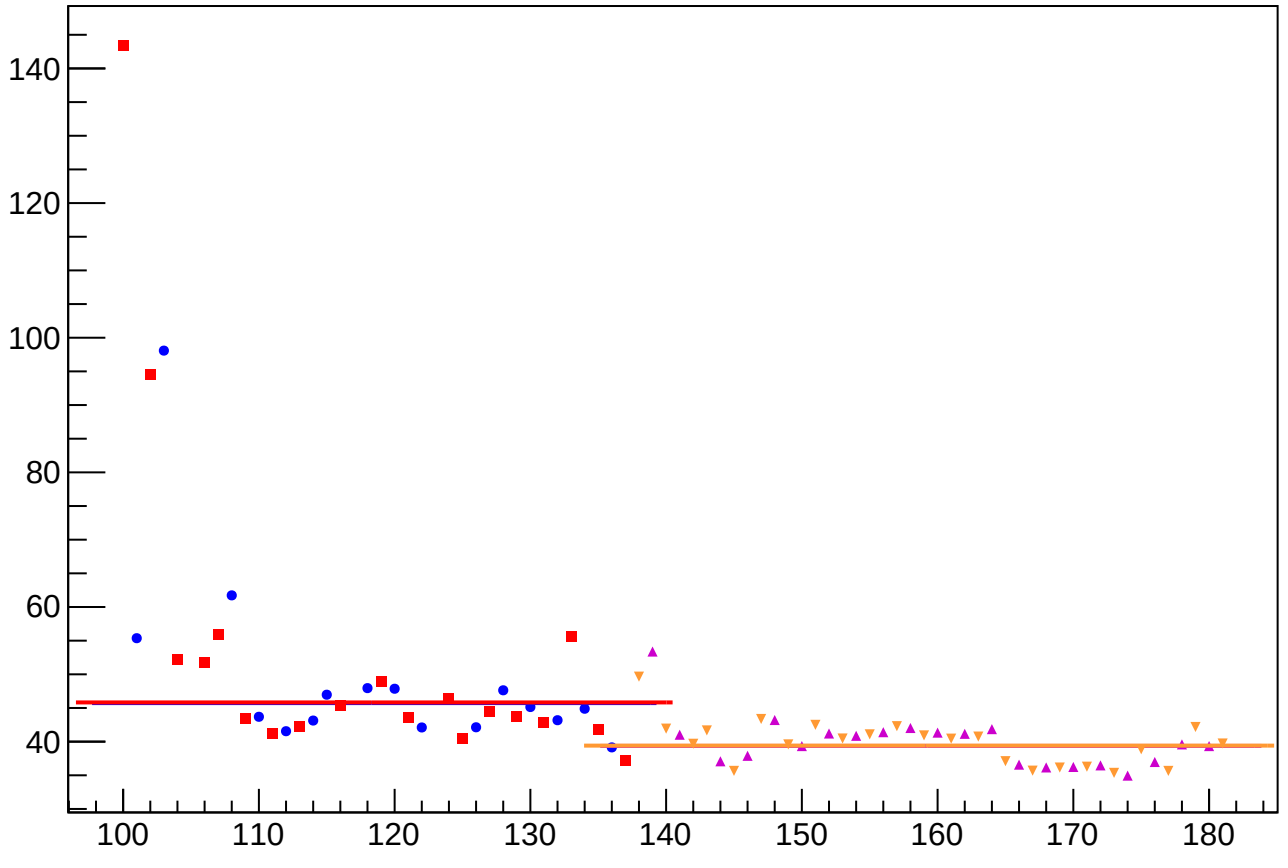
Left: -29.508+/-6.639 $\chi^2$/NDF: 78.4/43

Right: 21.453+/-12.307 $\chi^2$/NDF: 32.0/34

In: -17.115+/-8.366 $\chi^2$/NDF:41.1/36

Out: -18.880+/-8.165 $\chi^2$/NDF:82.6/41

All: -18.019+/-5.843 $\chi^2$/NDF: 123.7/78




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501463.8/15

Left Out: 39.409+/-0.007 $\chi^2$/NDF:225940.4/22

Right Out: 45.825+/-0.012 $\chi^2$/NDF: 538470.5/18

Left In: 39.362+/-0.007 $\chi^2$/NDF:244827.8/20

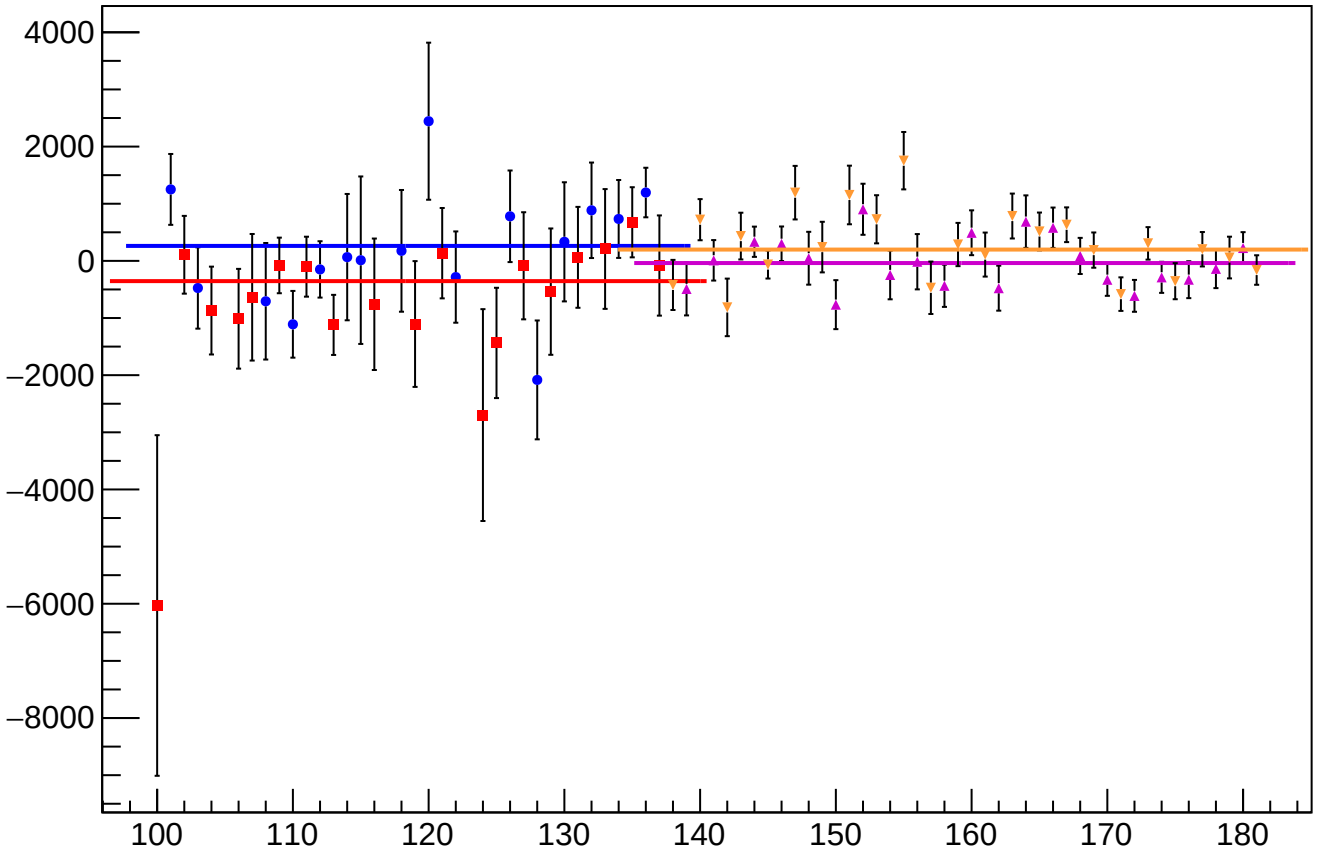
Left: 39.386+/-0.005 $\chi^2$/NDF: 470793.6/43

Right: 45.776+/-0.009 $\chi^2$/NDF: 1039966.5/34

In: 40.821+/-0.006 $\chi^2$/NDF:950896.0/36

Out: 40.832+/-0.006 $\chi^2$/NDF:977560.7/41

All: 40.827+/-0.004 $\chi^2$/NDF: 1928458.3/78




Right In: 261.947+/-185.212 $\chi^2$/NDF: 25.0/15

Left Out: 197.857+/-73.433 $\chi^2$/NDF:48.5/22

Right Out: -354.204+/-181.903 $\chi^2$/NDF: 15.2/18

Left In: -37.852+/-75.361 $\chi^2$/NDF:29.7/20

Left: 83.057+/-52.593 $\chi^2$/NDF: 83.2/43

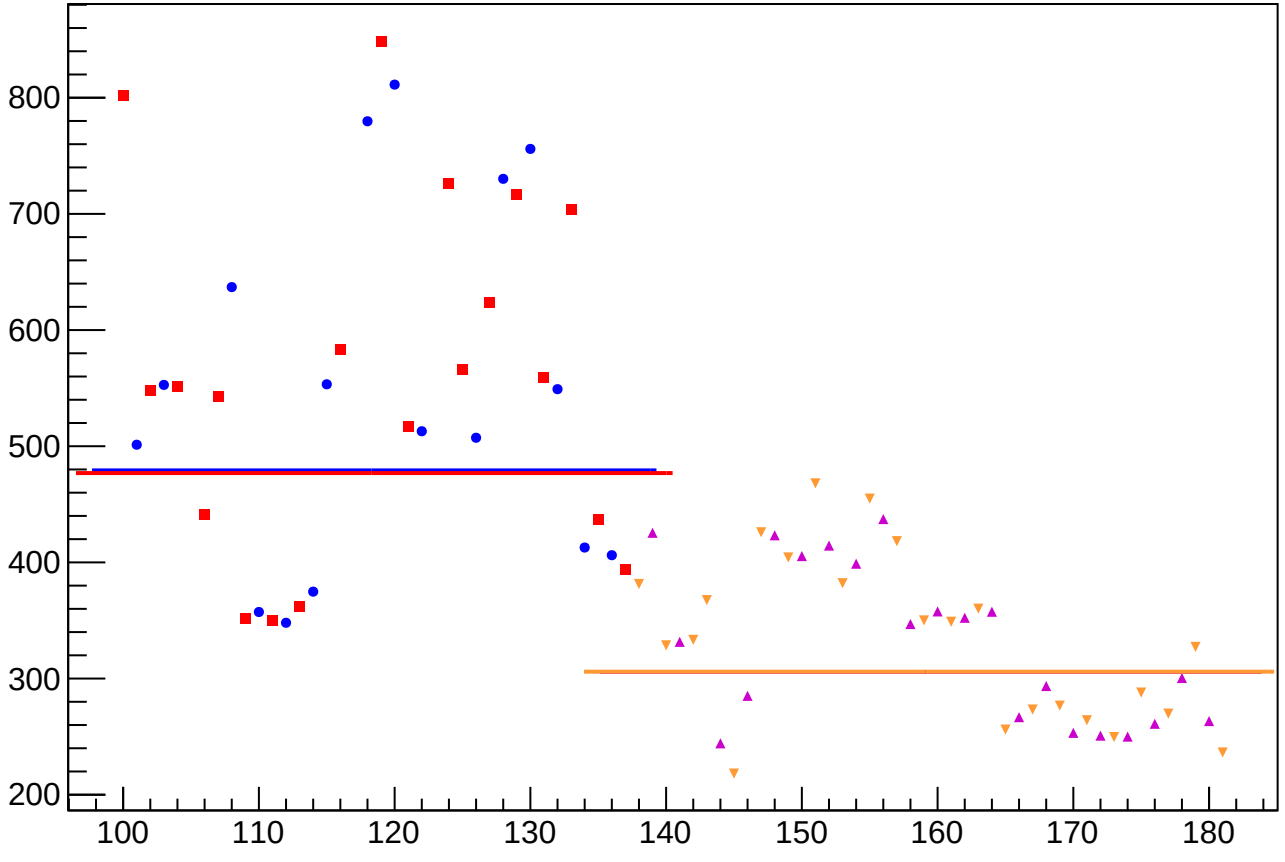
Right: -51.682+/-129.779 $\chi^2$/NDF: 45.8/34

In: 4.733+/-69.804 $\chi^2$/NDF:56.9/36

Out: 120.497+/-68.093 $\chi^2$/NDF:71.7/41

All: 64.050+/-48.743 $\chi^2$/NDF: 130.0/78

asym_sam_15_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 479.180+/-0.131 $\chi^2$/NDF: 952722.6/15

Left Out: 305.903+/-0.052 $\chi^2$/NDF:1647949.4/22

Right Out: 476.893+/-0.129 $\chi^2$/NDF: 1003767.4/18

Left In: 305.629+/-0.053 $\chi^2$/NDF:1317510.8/20

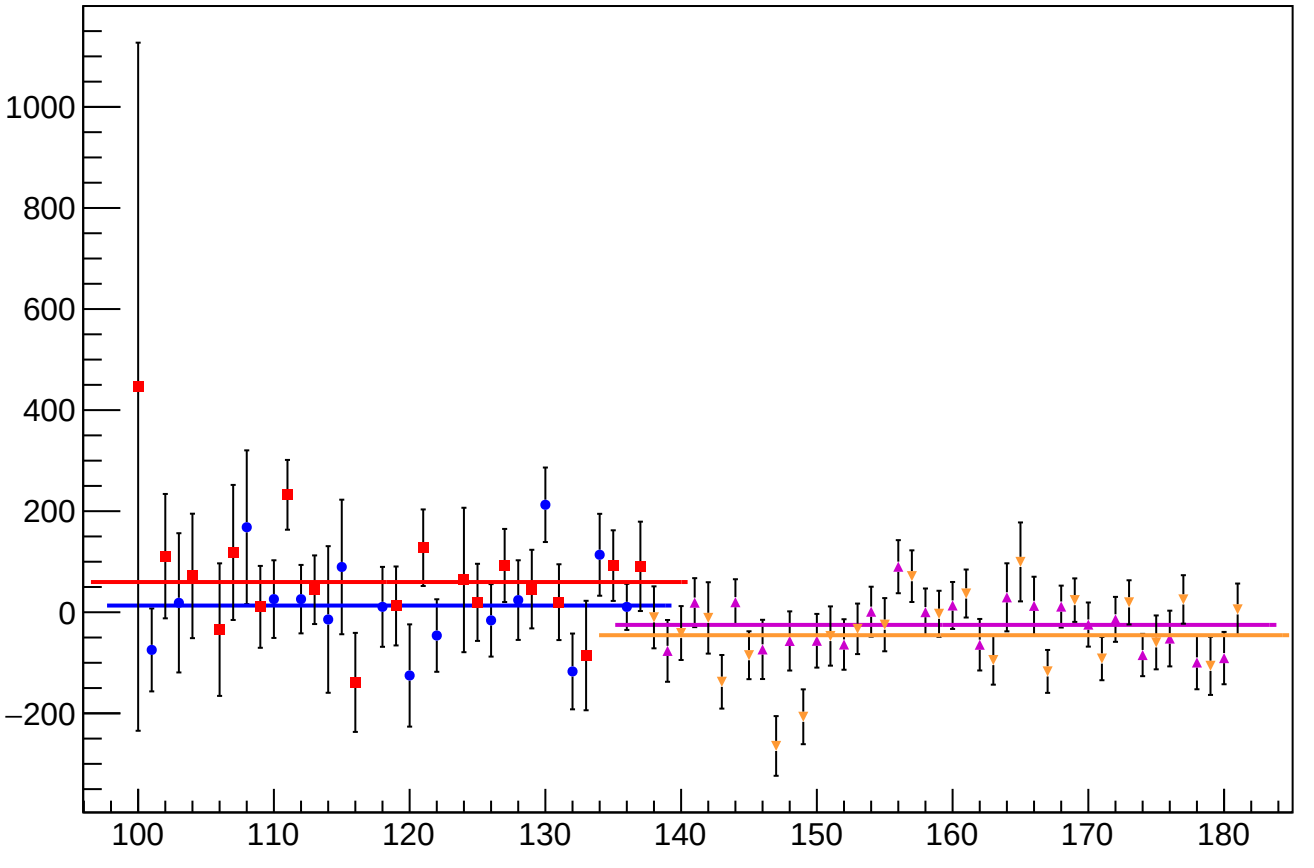
Left: 305.769+/-0.037 $\chi^2$/NDF: 2965473.8/43

Right: 478.016+/-0.092 $\chi^2$/NDF: 1956645.2/34

In: 330.281+/-0.049 $\chi^2$/NDF:3776879.3/36

Out: 329.864+/-0.048 $\chi^2$/NDF:4171306.9/41

All: 330.067+/-0.034 $\chi^2$/NDF: 7948222.8/78




Right In: 13.266+/-19.849 $\chi^2$/NDF: 17.2/15

Left Out: -45.407+/-10.647 $\chi^2$/NDF:53.9/22

Right Out: 59.810+/-20.234 $\chi^2$/NDF: 16.1/18

Left In: -25.012+/-10.940 $\chi^2$/NDF:18.9/20

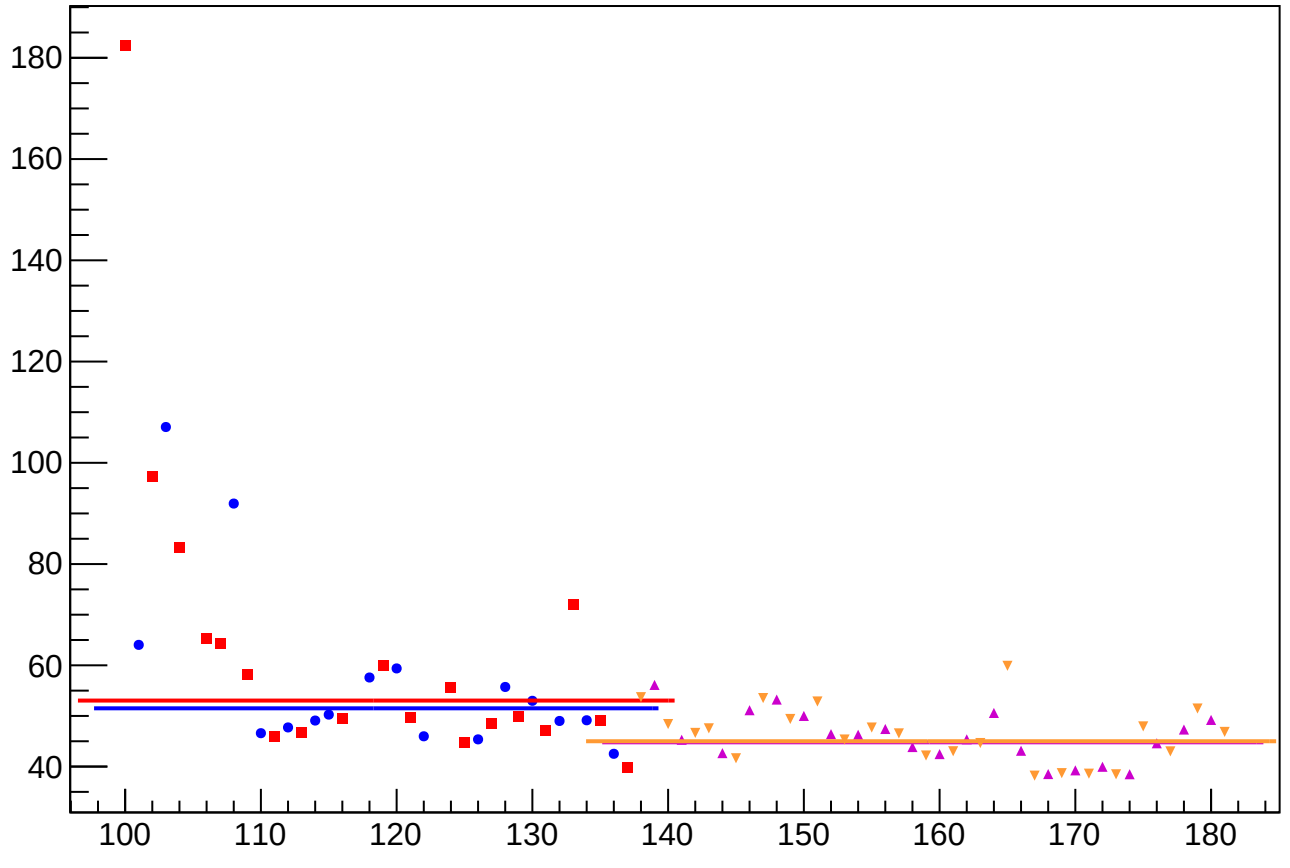
Left: -35.486+/-7.630 $\chi^2$/NDF: 74.5/43

Right: 36.091+/-14.170 $\chi^2$/NDF: 36.0/34

In: -16.094+/-9.581 $\chi^2$/NDF:38.9/36

Out: -22.591+/-9.422 $\chi^2$/NDF:91.1/41

All: -19.396+/-6.718 $\chi^2$/NDF: 130.3/78




Right In: 51.506+/-0.014 $\chi^2$/NDF: 667059.0/15

Left Out: 45.001+/-0.008 $\chi^2$/NDF:466875.3/22

Right Out: 53.037+/-0.014 $\chi^2$/NDF: 712908.4/18

Left In: 44.788+/-0.008 $\chi^2$/NDF:355309.9/20

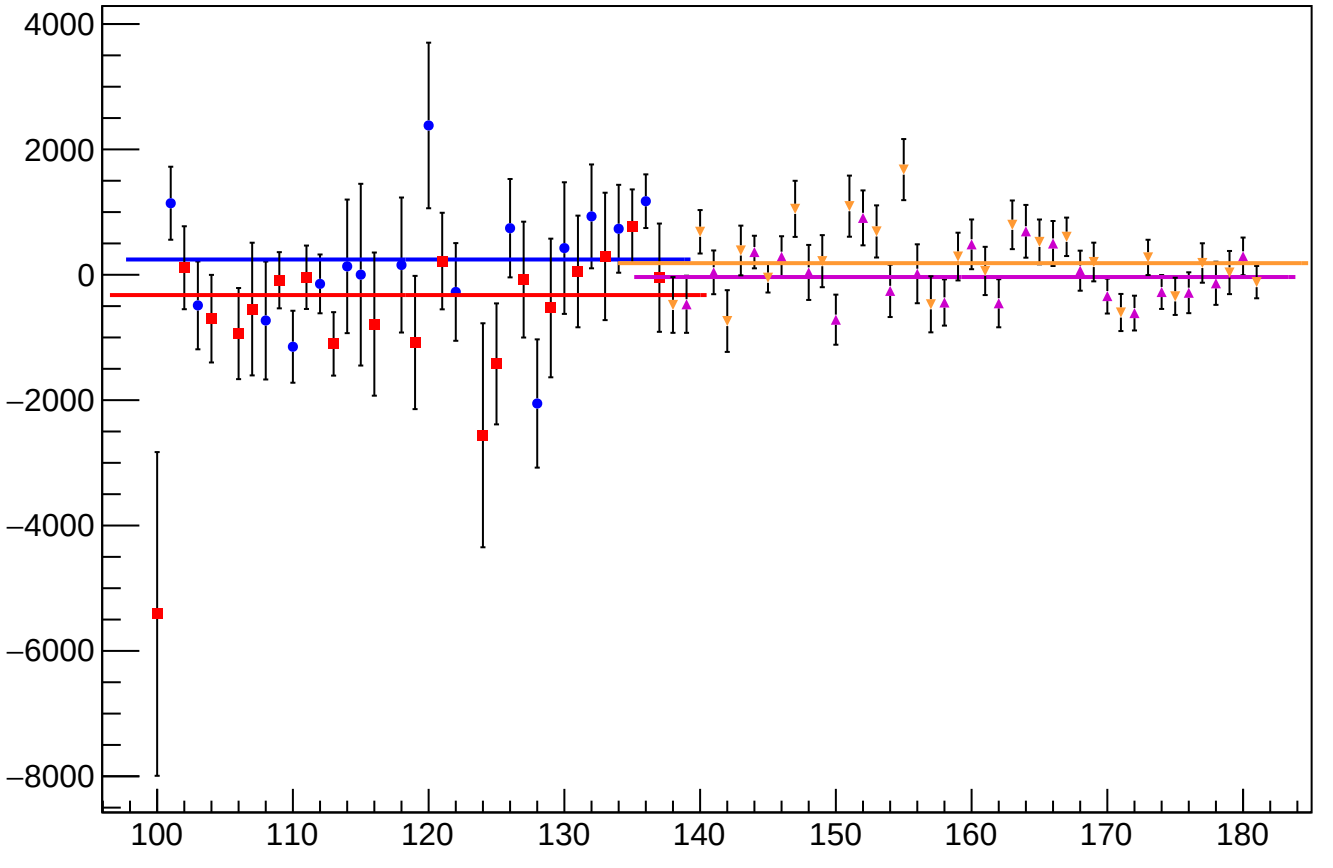
Left: 44.898+/-0.005 $\chi^2$/NDF: 822574.4/43

Right: 52.257+/-0.010 $\chi^2$/NDF: 1385808.8/34

In: 46.353+/-0.007 $\chi^2$/NDF:1198056.4/36

Out: 46.744+/-0.007 $\chi^2$/NDF:1426853.0/41

All: 46.552+/-0.005 $\chi^2$/NDF: 2626598.8/78




Right In: 243.828+/-180.872 $\chi^2$/NDF: 25.6/15

Left Out: 185.391+/-72.540 $\chi^2$/NDF:46.7/22

Right Out: -323.628+/-173.632 $\chi^2$/NDF: 16.5/18

Left In: -35.811+/-75.316 $\chi^2$/NDF:29.7/20

Left: 78.941+/-52.247 $\chi^2$/NDF: 80.9/43

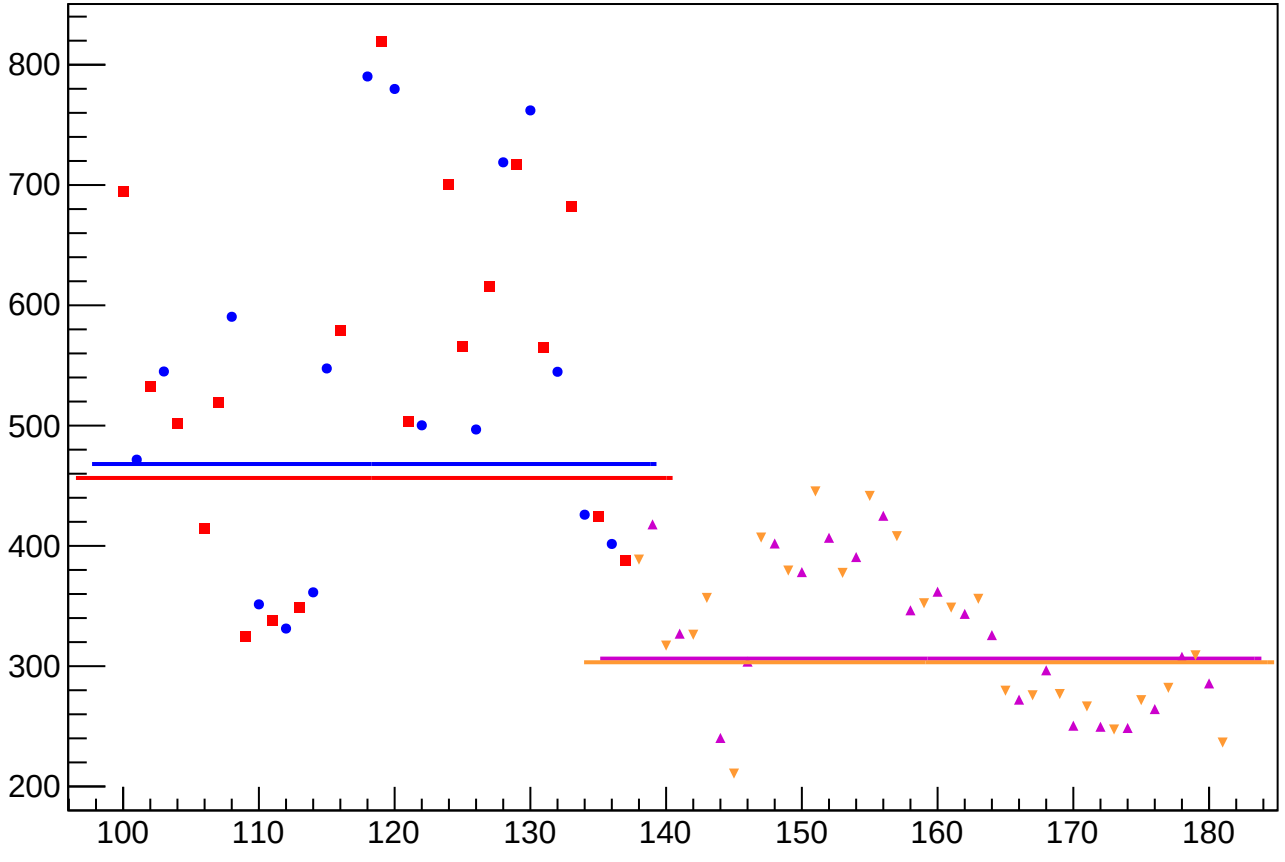
Right: -51.485+/-125.258 $\chi^2$/NDF: 47.2/34

In: 5.511+/-69.529 $\chi^2$/NDF:57.4/36

Out: 109.749+/-66.933 $\chi^2$/NDF:70.5/41

All: 59.612+/-48.220 $\chi^2$/NDF: 129.0/78

asym_sam_15_37_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 468.066+/-0.128 $\chi^2$/NDF: 982915.0/15

Left Out: 303.249+/-0.051 $\chi^2$/NDF:1517831.4/22

Right Out: 456.468+/-0.123 $\chi^2$/NDF: 1082568.2/18

Left In: 306.298+/-0.053 $\chi^2$/NDF:1133539.9/20

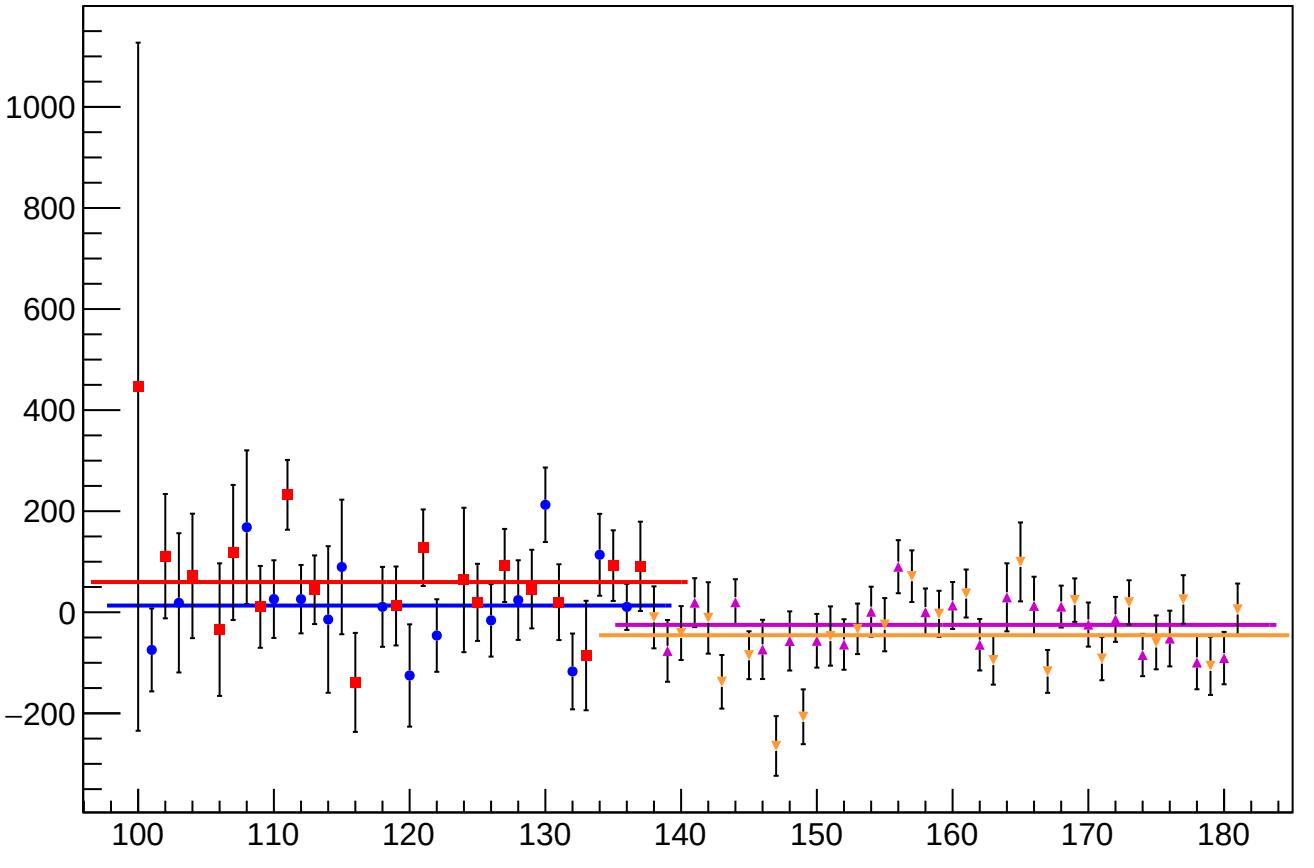
Left: 304.716+/-0.037 $\chi^2$/NDF: 2653072.0/43

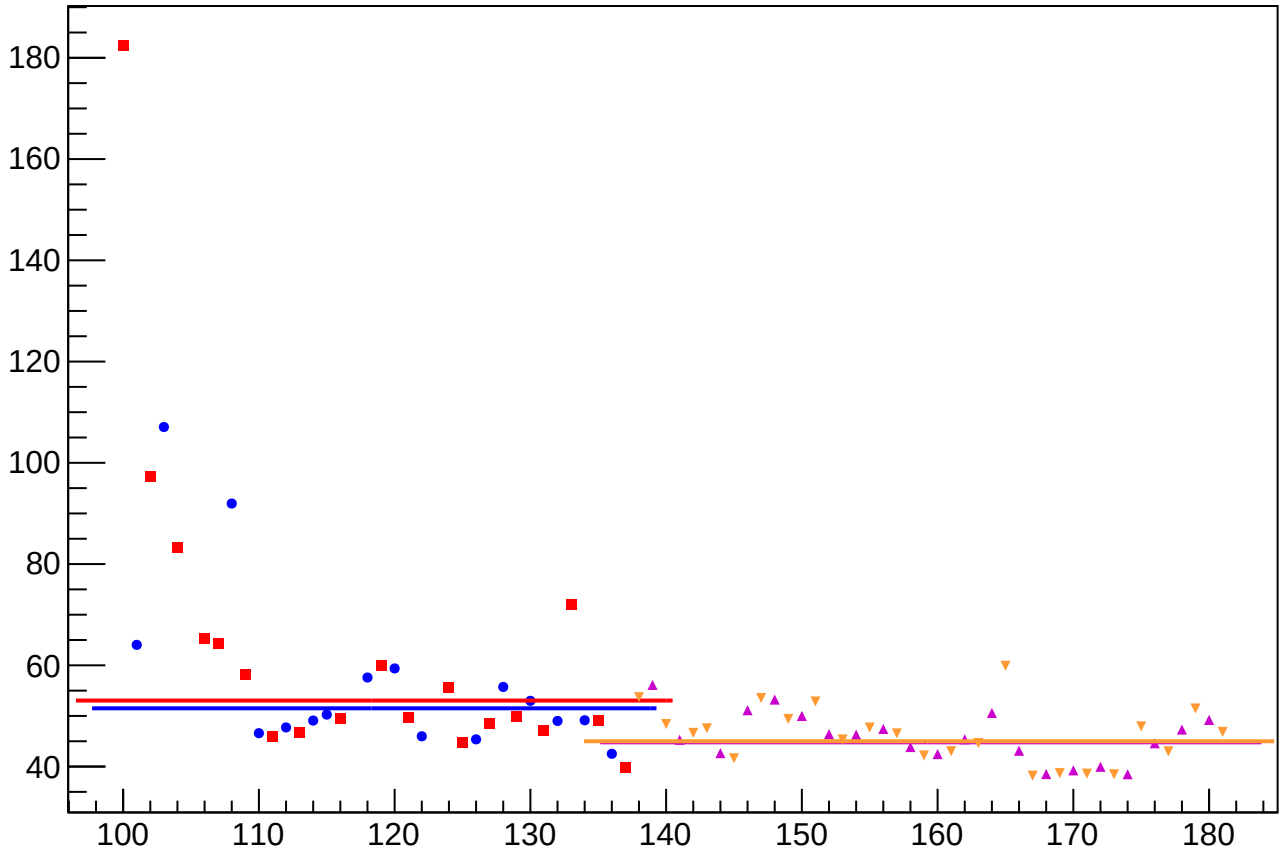
Right: 462.030+/-0.089 $\chi^2$/NDF: 2069762.6/34

In: 330.202+/-0.049 $\chi^2$/NDF:3479867.8/36

Out: 326.018+/-0.047 $\chi^2$/NDF:3926358.9/41

All: 328.030+/-0.034 $\chi^2$/NDF: 7409986.9/78


eigen_dit_asym_sam_15_37_dd_mean vs Slug, Sign Corrected
1000
800
600
400
200
0
−200
100
110
120
130
140
150
160
170
180
Right In: 13.266+/-19.849 χ²/NDF: 17.2/15
Left Out: -45.408+/-10.647 χ²/NDF:53.9/22
Right Out: 59.811+/-20.234 χ²/NDF: 16.1/18
Left In: -25.012+/-10.940 χ²/NDF:18.9/20
Left: -35.486+/-7.630 χ²/NDF: 74.5/43
Right: 36.092+/-14.170 χ²/NDF: 36.0/34
In: -16.094+/-9.581 χ²/NDF:38.9/36
Out: -22.590+/-9.422 χ²/NDF:91.1/41
All: -19.396+/-6.718 χ²/NDF: 130.3/78




Right In: 51.506+/-0.014 $\chi^2$/NDF: 667064.6/15

Left Out: 45.001+/-0.008 $\chi^2$/NDF:466875.7/22

Right Out: 53.037+/-0.014 $\chi^2$/NDF: 712918.4/18

Left In: 44.788+/-0.008 $\chi^2$/NDF:355311.8/20

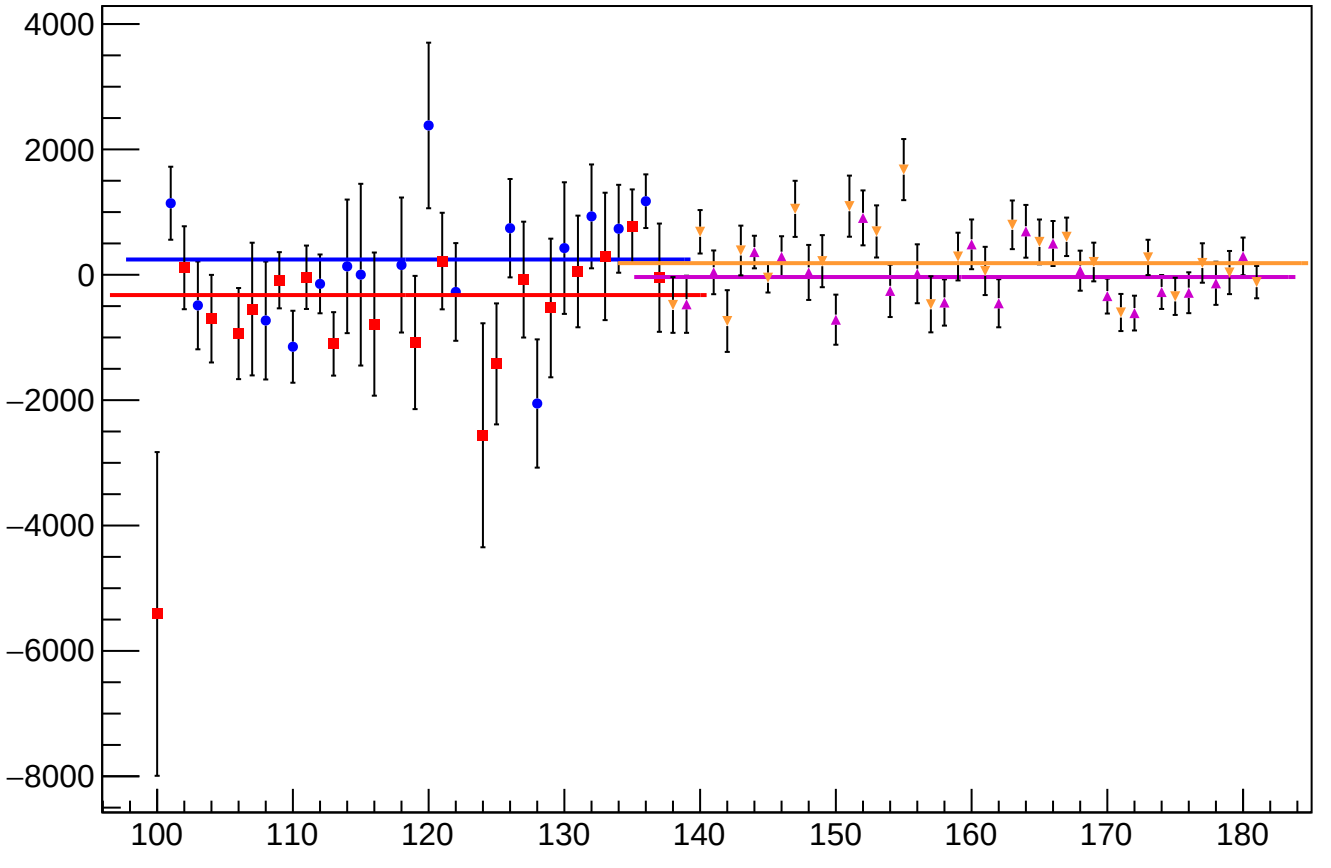
Left: 44.898+/-0.005 $\chi^2$/NDF: 822576.4/43

Right: 52.257+/-0.010 $\chi^2$/NDF: 1385824.6/34

In: 46.353+/-0.007 $\chi^2$/NDF:1198062.3/36

Out: 46.744+/-0.007 $\chi^2$/NDF:1426865.3/41

All: 46.552+/-0.005 $\chi^2$/NDF: 2626616.8/78




Right In: 243.826+/-180.872 $\chi^2$/NDF: 25.6/15

Left Out: 185.391+/-72.540 $\chi^2$/NDF:46.7/22

Right Out: -323.628+/-173.631 $\chi^2$/NDF: 16.5/18

Left In: -35.811+/-75.316 $\chi^2$/NDF:29.7/20

Left: 78.942+/-52.247 $\chi^2$/NDF: 80.9/43

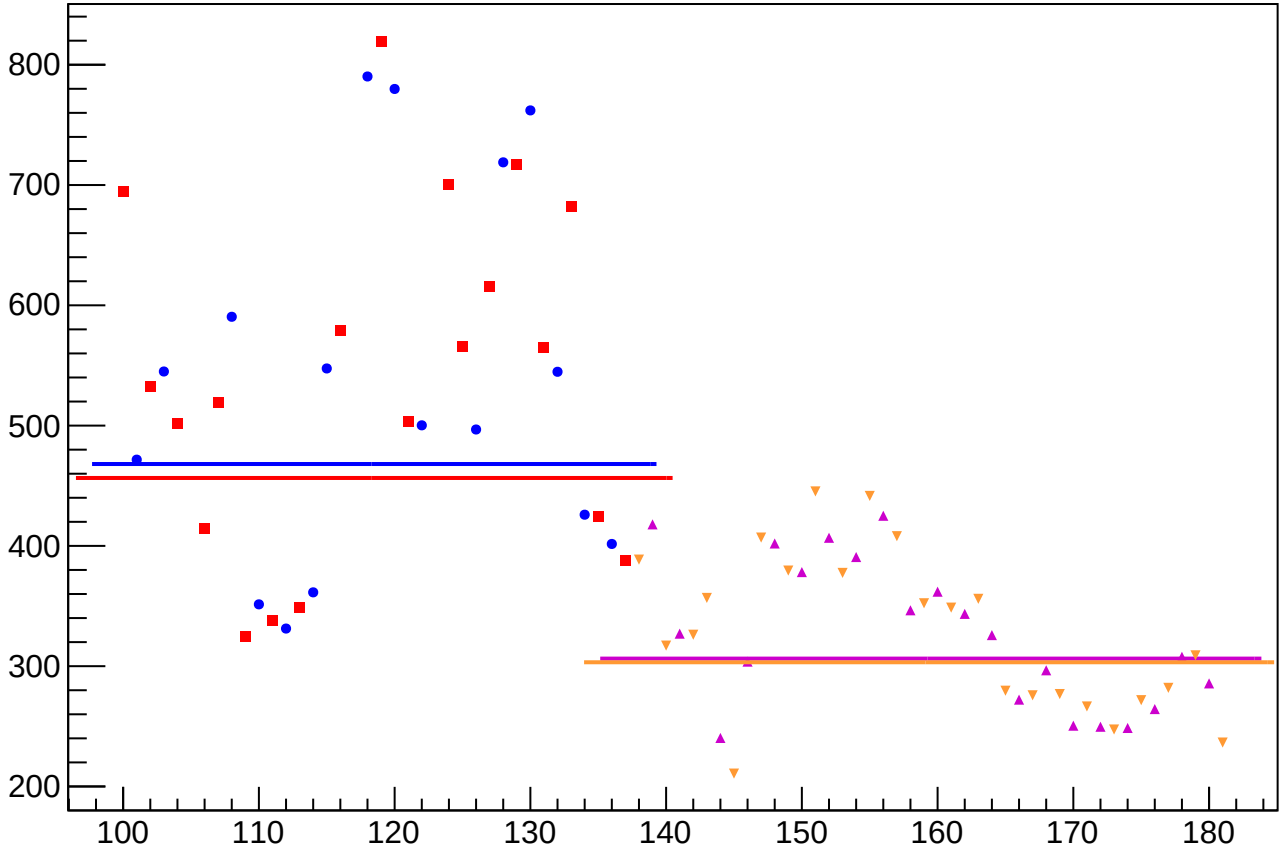
Right: -51.485+/-125.257 $\chi^2$/NDF: 47.2/34

In: 5.511+/-69.529 $\chi^2$/NDF:57.4/36

Out: 109.749+/-66.933 $\chi^2$/NDF:70.5/41

All: 59.612+/-48.220 $\chi^2$/NDF: 129.0/78

asym_sam_15_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 468.065+/-0.128 $\chi^2$/NDF: 982915.8/15

Left Out: 303.249+/-0.051 $\chi^2$/NDF:1517832.5/22

Right Out: 456.467+/-0.123 $\chi^2$/NDF: 1082565.2/18

Left In: 306.299+/-0.053 $\chi^2$/NDF:1133532.5/20

Left: 304.717+/-0.037 $\chi^2$/NDF: 2653065.9/43

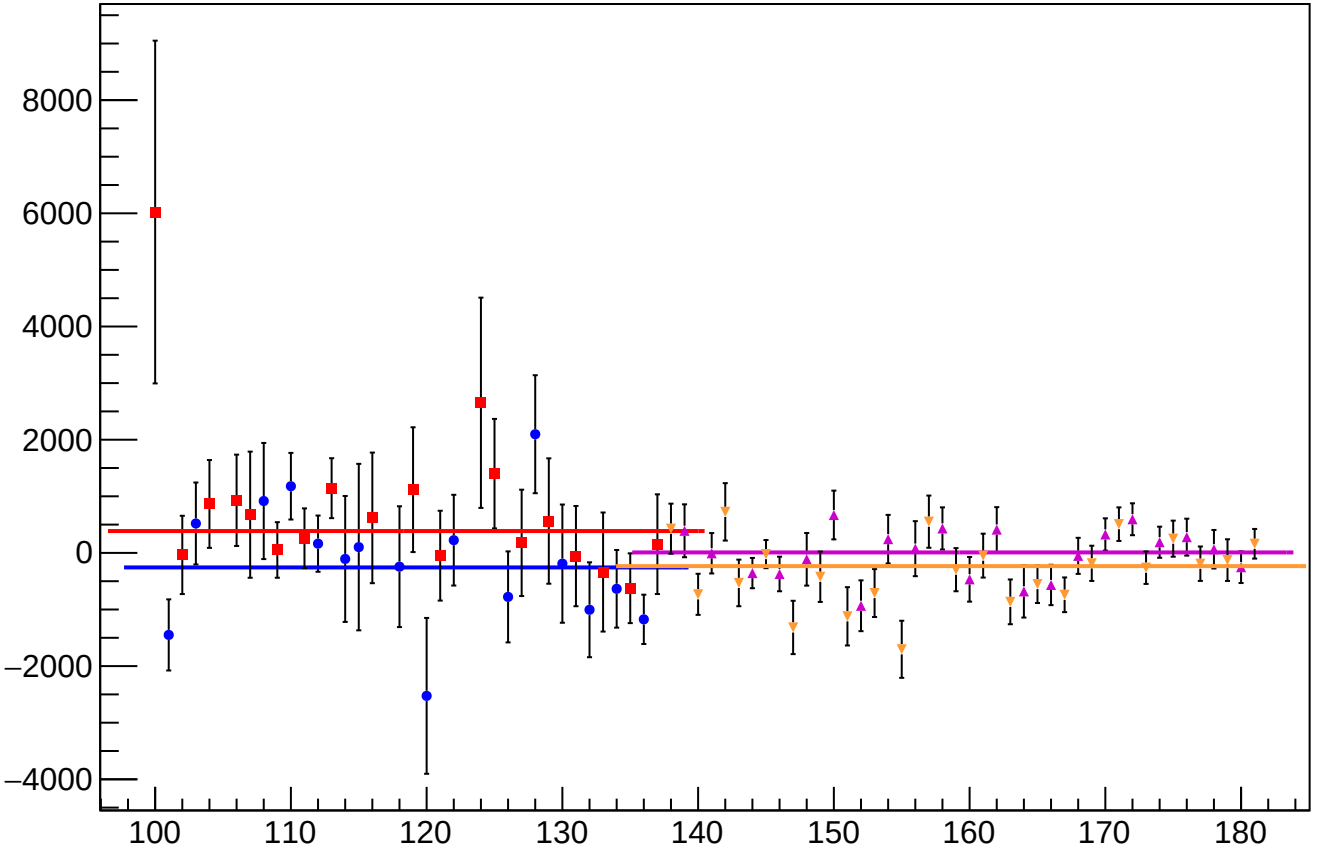
Right: 462.029+/-0.089 $\chi^2$/NDF: 2069760.5/34

In: 330.203+/-0.049 $\chi^2$/NDF:3479843.0/36

Out: 326.018+/-0.047 $\chi^2$/NDF:3926343.8/41

All: 328.031+/-0.034 $\chi^2$/NDF: 7409947.5/78

# asym_sam_15_37_dd_mean vs Slug, Sign Corrected




Right In: -256.748+/-186.462 $\chi^2$/NDF: 26.9/15

Left Out: -233.357+/-74.083 $\chi^2$/NDF:47.5/22

Right Out: 386.449+/-182.363 $\chi^2$/NDF: 14.2/18

Left In: 8.497+/-76.020 $\chi^2$/NDF:27.4/20

Left: -115.550+/-53.056 $\chi^2$/NDF: 80.1/43

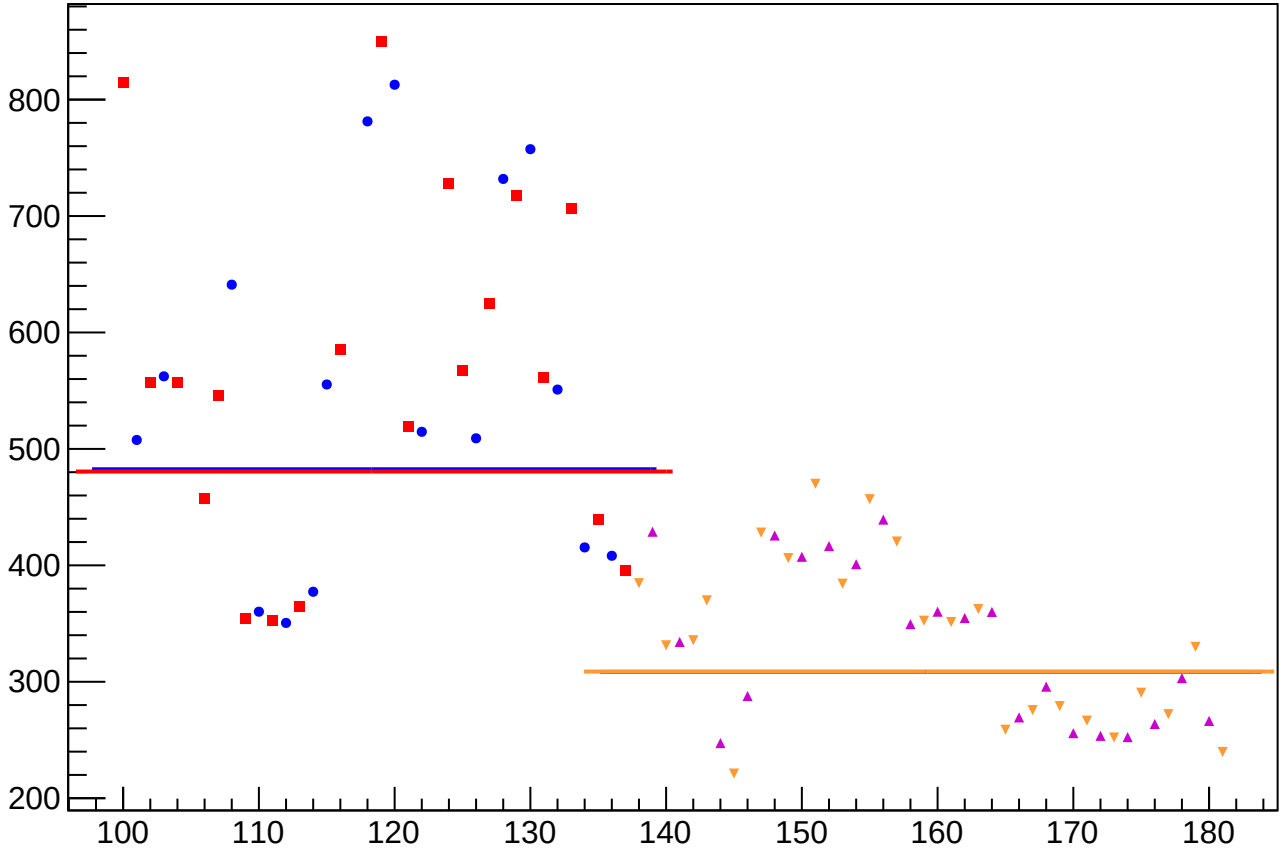
Right: 71.997+/-130.375 $\chi^2$/NDF: 47.2/34

In: -29.307+/-70.395 $\chi^2$/NDF:56.1/36

Out: -145.559+/-68.636 $\chi^2$/NDF:71.6/41

All: -88.903+/-49.143 $\chi^2$/NDF: 129.1/78

# asym_sam_15_37_dd_rms vs Slug, Sign Corrected




Right In: 482.512+/-0.132 $\chi^2$/NDF: 946526.1/15

Left Out: 308.795+/-0.052 $\chi^2$/NDF:1611061.3/22

Right Out: 480.559+/-0.129 $\chi^2$/NDF: 993796.3/18

Left In: 308.451+/-0.054 $\chi^2$/NDF:1291161.4/20

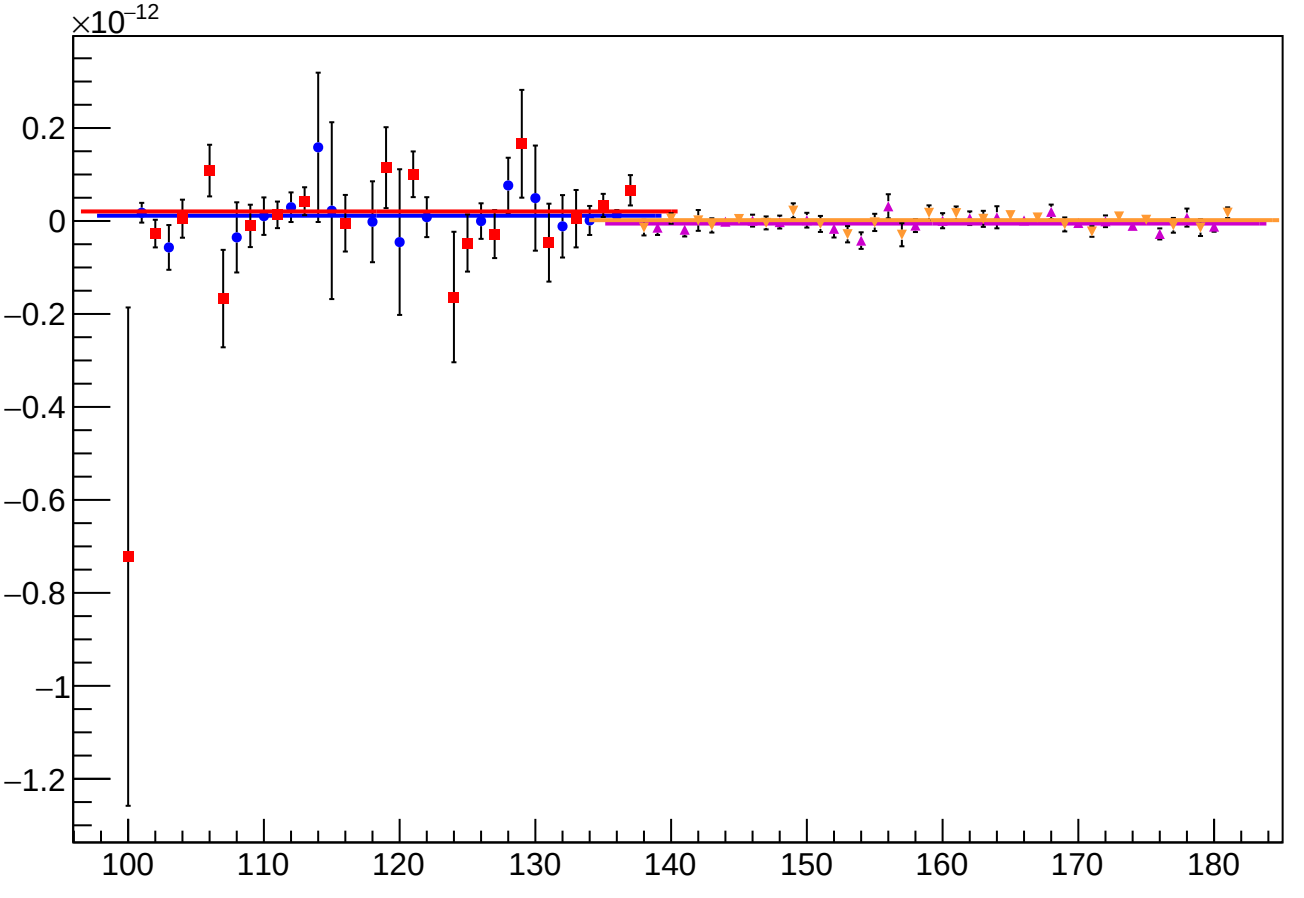
Left: 308.627+/-0.038 $\chi^2$/NDF: 2902243.6/43

Right: 481.514+/-0.092 $\chi^2$/NDF: 1940434.6/34

In: 333.259+/-0.050 $\chi^2$/NDF:3732116.5/36

Out: 333.126+/-0.049 $\chi^2$/NDF:4127810.9/41

All: 333.191+/-0.035 $\chi^2$/NDF: 7859931.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:20.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.3/20

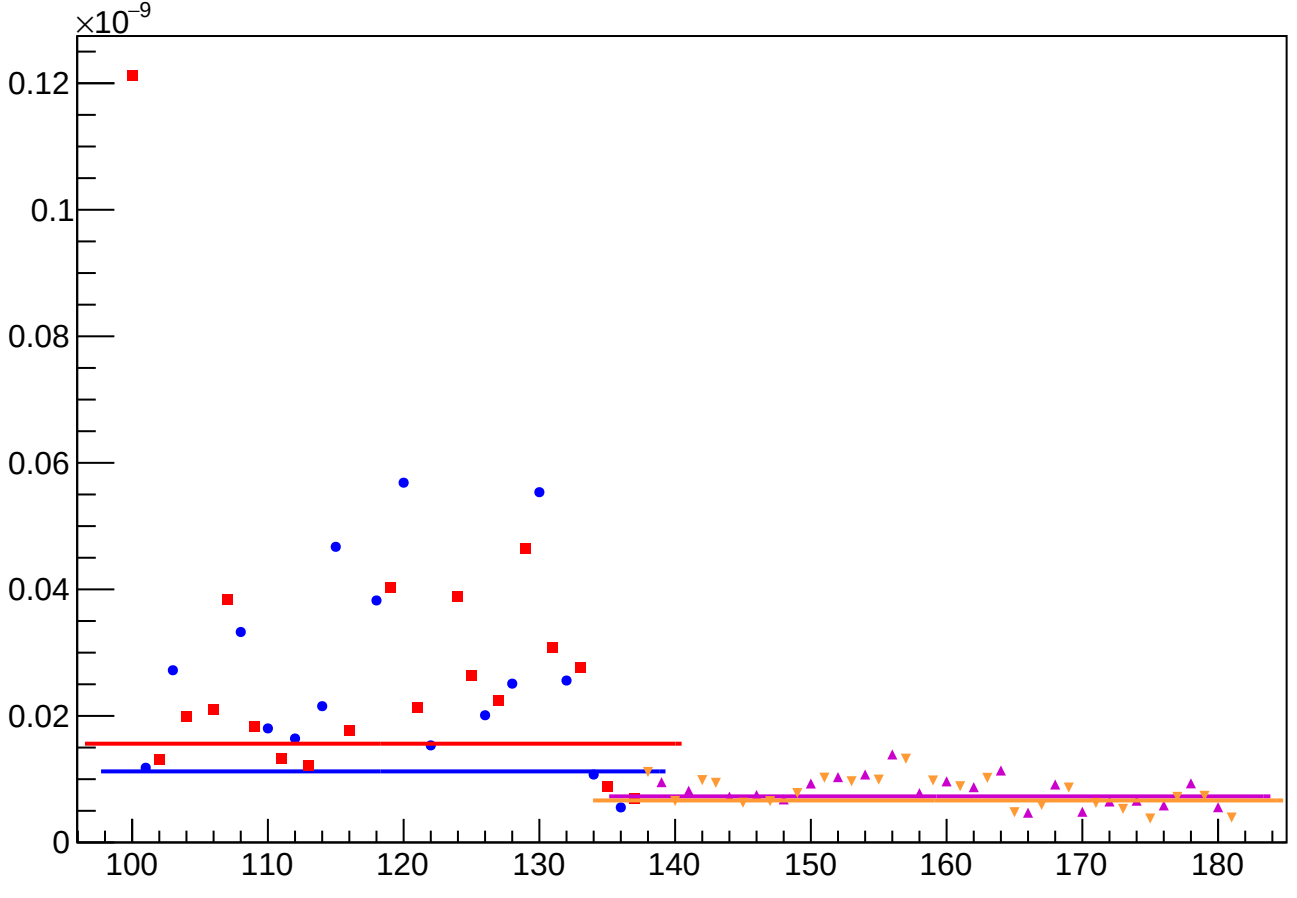
Left: -0.000+/-0.000 $\chi^2$/NDF: 41.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:26.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:47.4/41

All: -0.000+/-0.000 $\chi^2$/NDF: 76.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2103068.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1446724.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1184320.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:875093.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 2373497.3/43

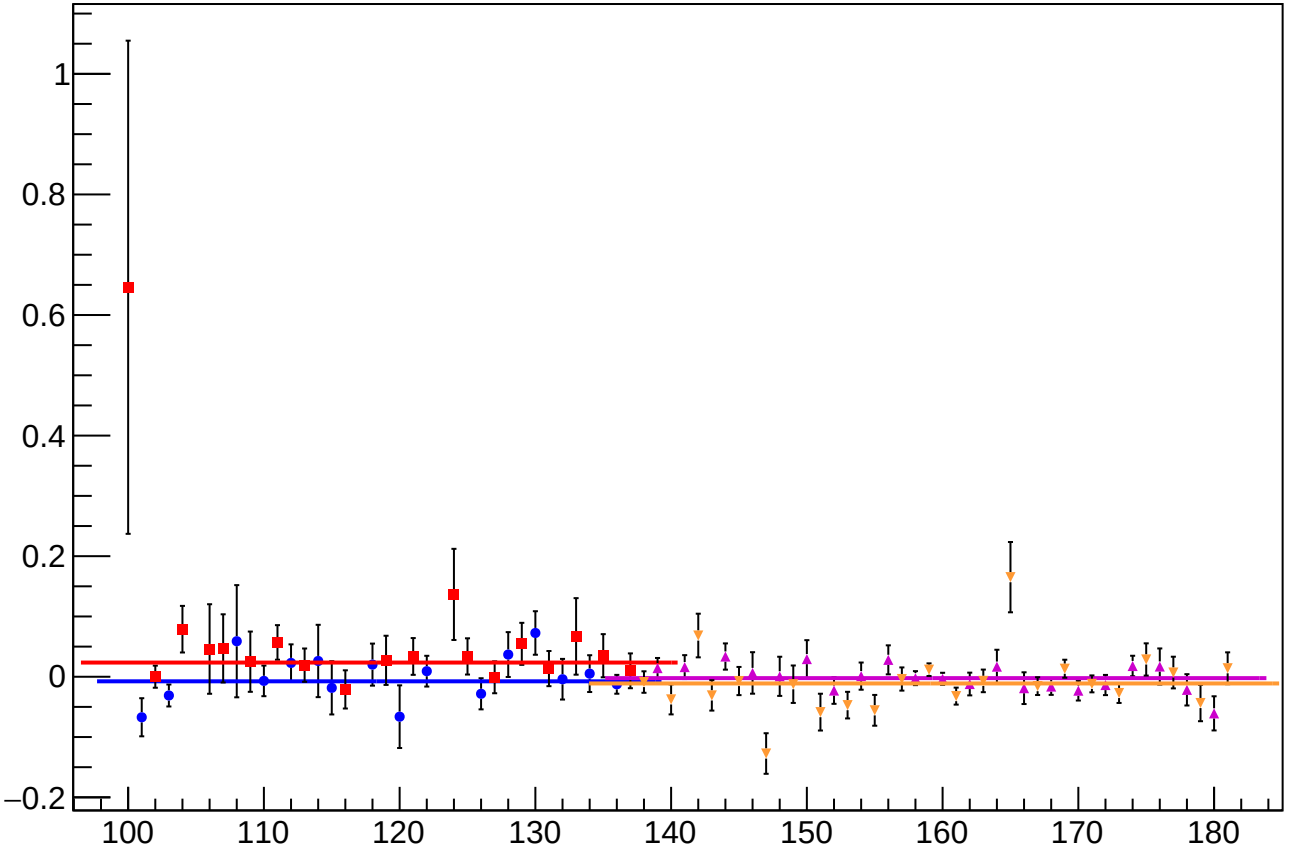
Right: 0.000+/-0.000 $\chi^2$/NDF: 3514192.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:3407786.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4062904.0/41

All: 0.000+/-0.000 $\chi^2$/NDF: 7511457.1/78

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.011+/-0.004 $\chi^2$/NDF:51.4/22

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: -0.002+/-0.004 $\chi^2$/NDF:19.0/20

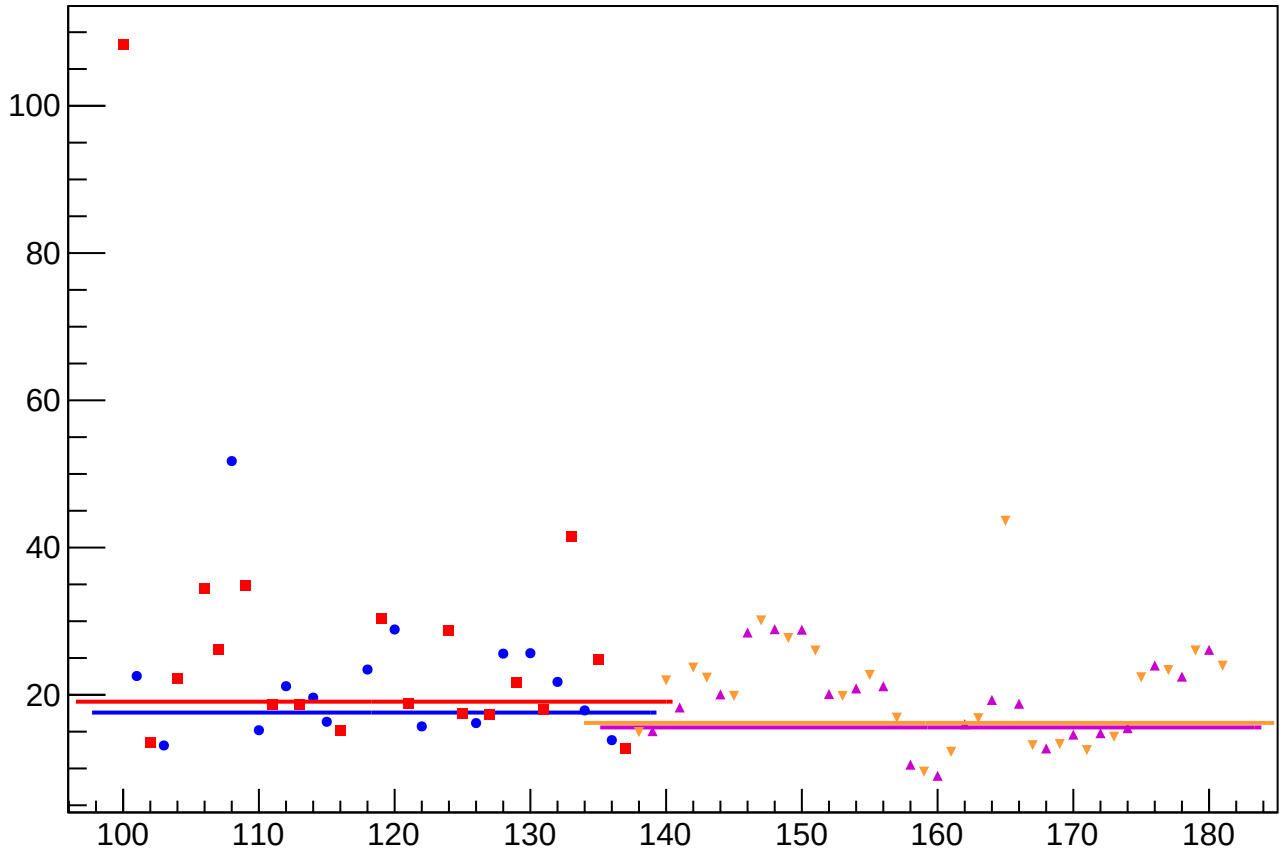
Left: -0.007+/-0.003 $\chi^2$/NDF: 72.7/43

Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: -0.004+/-0.004 $\chi^2$/NDF:36.1/36

Out: -0.003+/-0.004 $\chi^2$/NDF:81.7/41

All: -0.004+/-0.003 $\chi^2$/NDF: 117.8/78




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993249.5/15

Left Out: 16.187+/-0.003 $\chi^2$/NDF:3750623.4/22

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247983.1/18

Left In: 15.570+/-0.003 $\chi^2$/NDF:3382878.7/20

Left: 15.877+/-0.002 $\chi^2$/NDF: 7156008.6/43

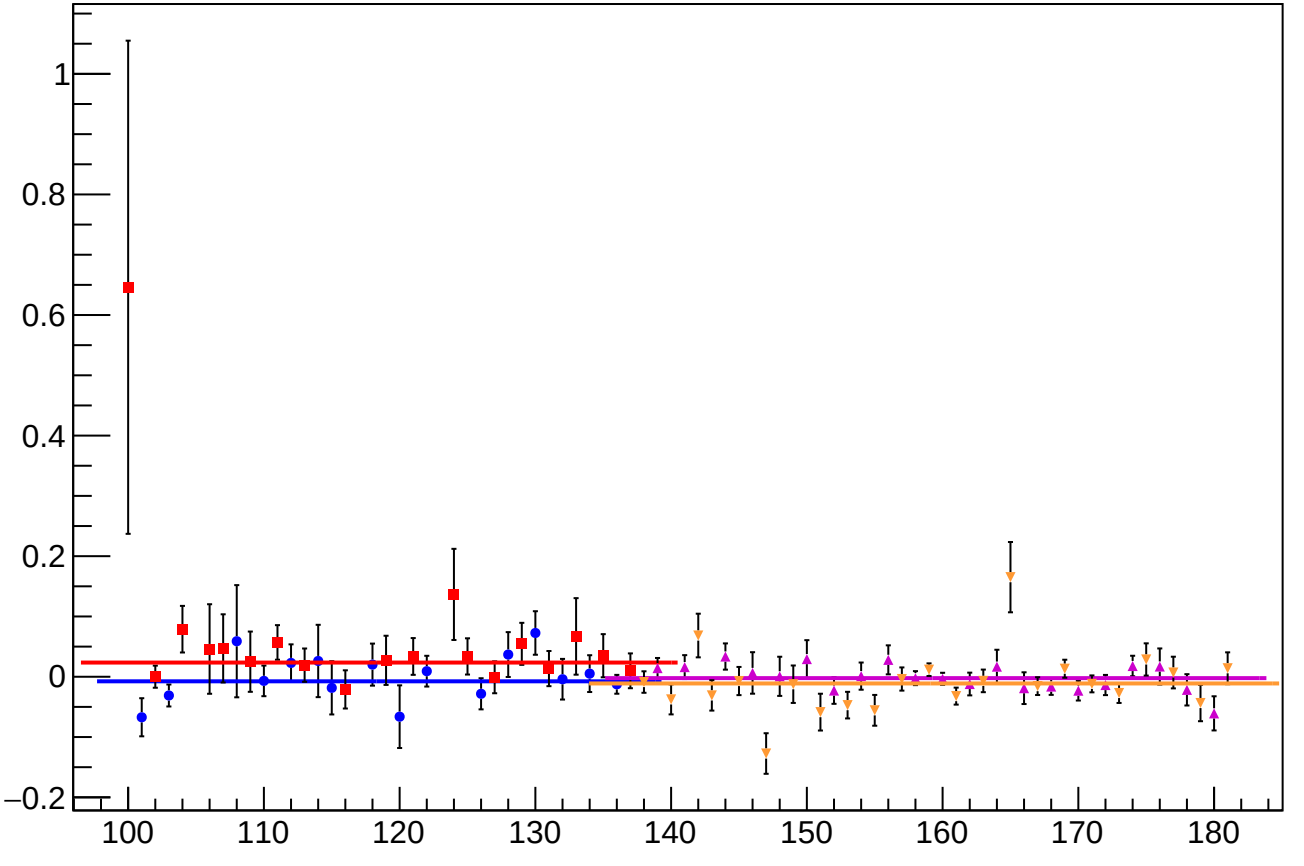
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280449.7/34

In: 16.065+/-0.003 $\chi^2$/NDF:4495148.5/36

Out: 16.825+/-0.003 $\chi^2$/NDF:5214796.1/41

All: 16.437+/-0.002 $\chi^2$/NDF: 9754525.5/78

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.011+/-0.004 $\chi^2$/NDF:51.4/22

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: -0.002+/-0.004 $\chi^2$/NDF:19.0/20

Left: -0.007+/-0.003 $\chi^2$/NDF: 72.7/43

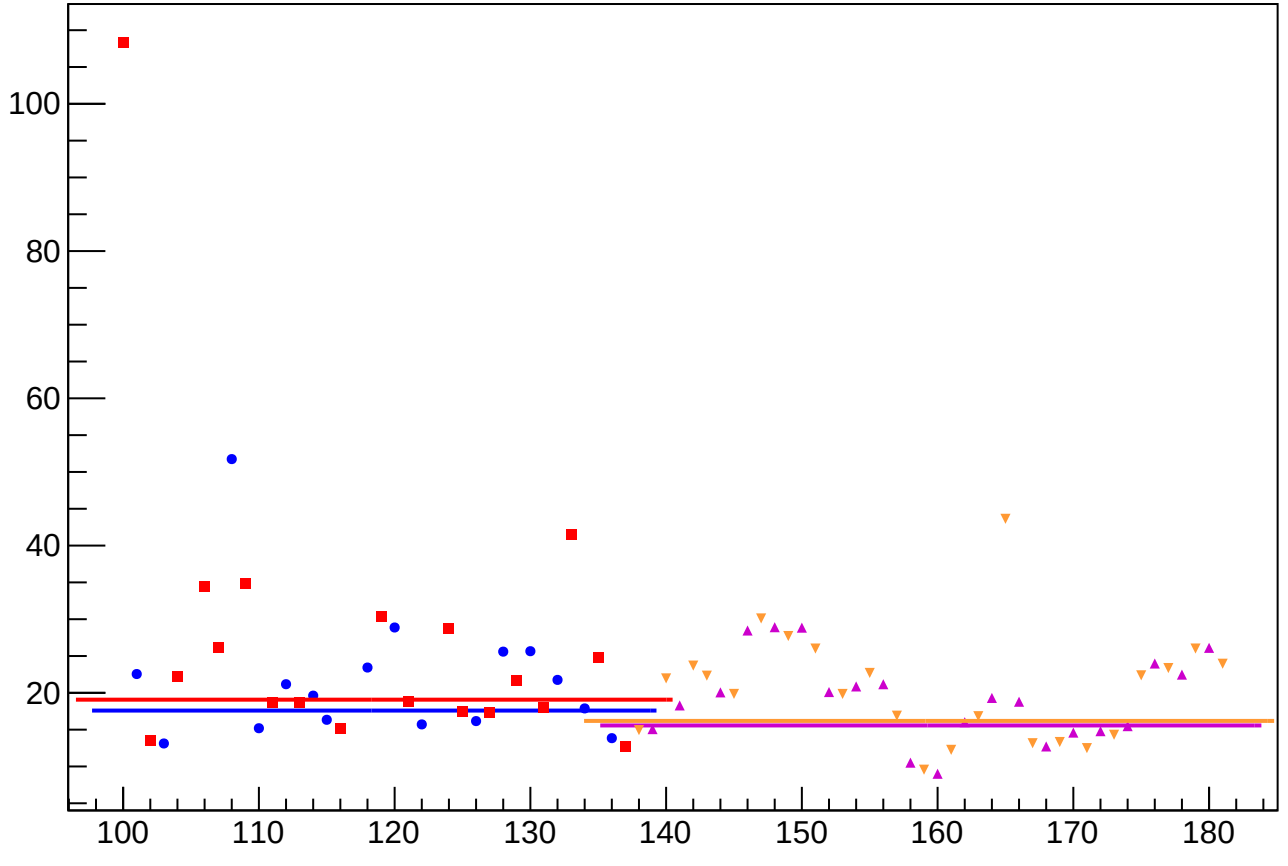
Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: -0.004+/-0.004 $\chi^2$/NDF:36.1/36

Out: -0.003+/-0.004 $\chi^2$/NDF:81.7/41

All: -0.004+/-0.003 $\chi^2$/NDF: 117.8/78

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993249.5/15

Left Out: 16.187+/-0.003 $\chi^2$/NDF:3750623.4/22

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247983.1/18

Left In: 15.570+/-0.003 $\chi^2$/NDF:3382878.7/20

Left: 15.877+/-0.002 $\chi^2$/NDF: 7156008.6/43

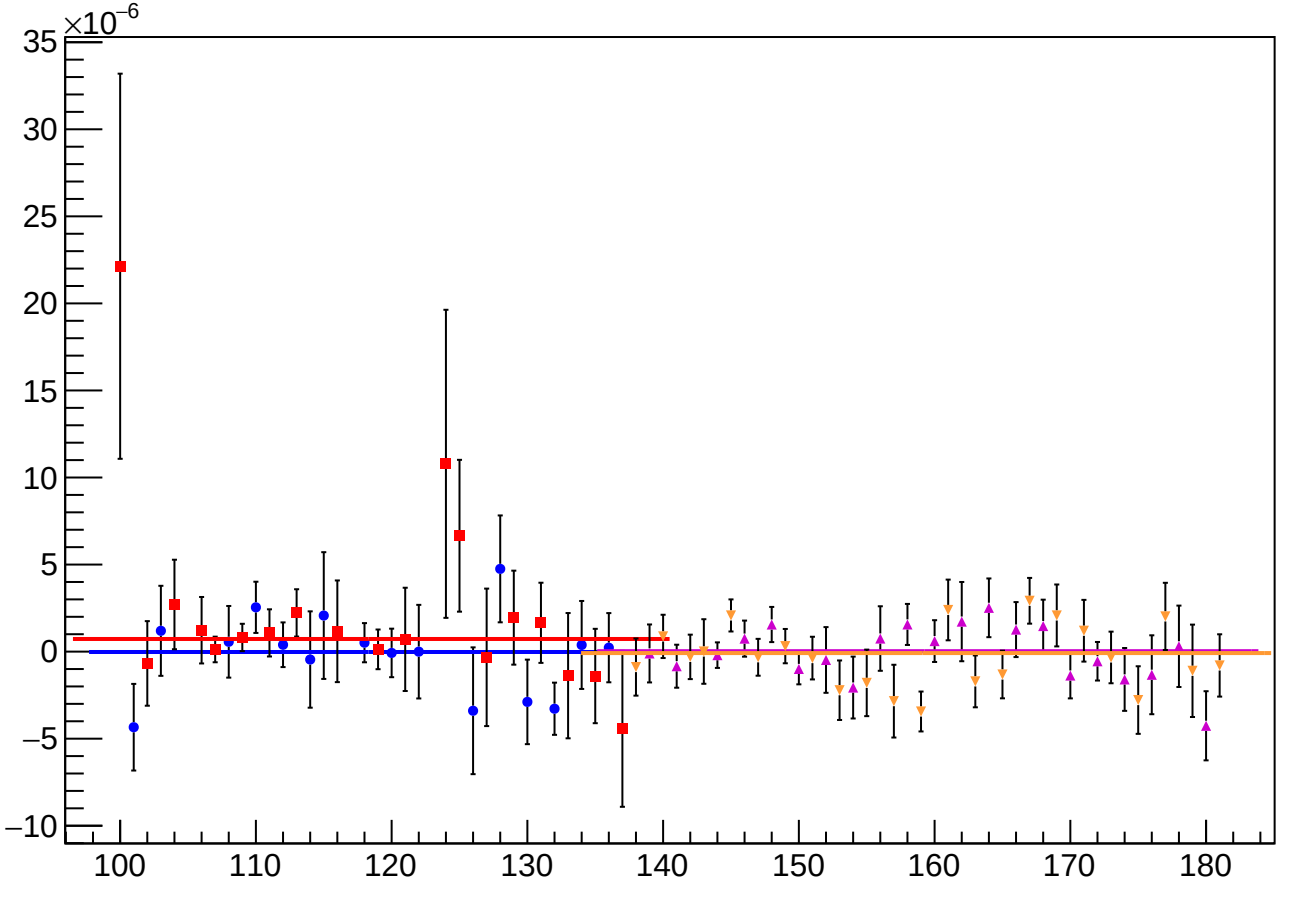
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280449.7/34

In: 16.065+/-0.003 $\chi^2$/NDF:4495148.5/36

Out: 16.825+/-0.003 $\chi^2$/NDF:5214796.1/41

All: 16.437+/-0.002 $\chi^2$/NDF: 9754525.5/78

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:34.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.8/20

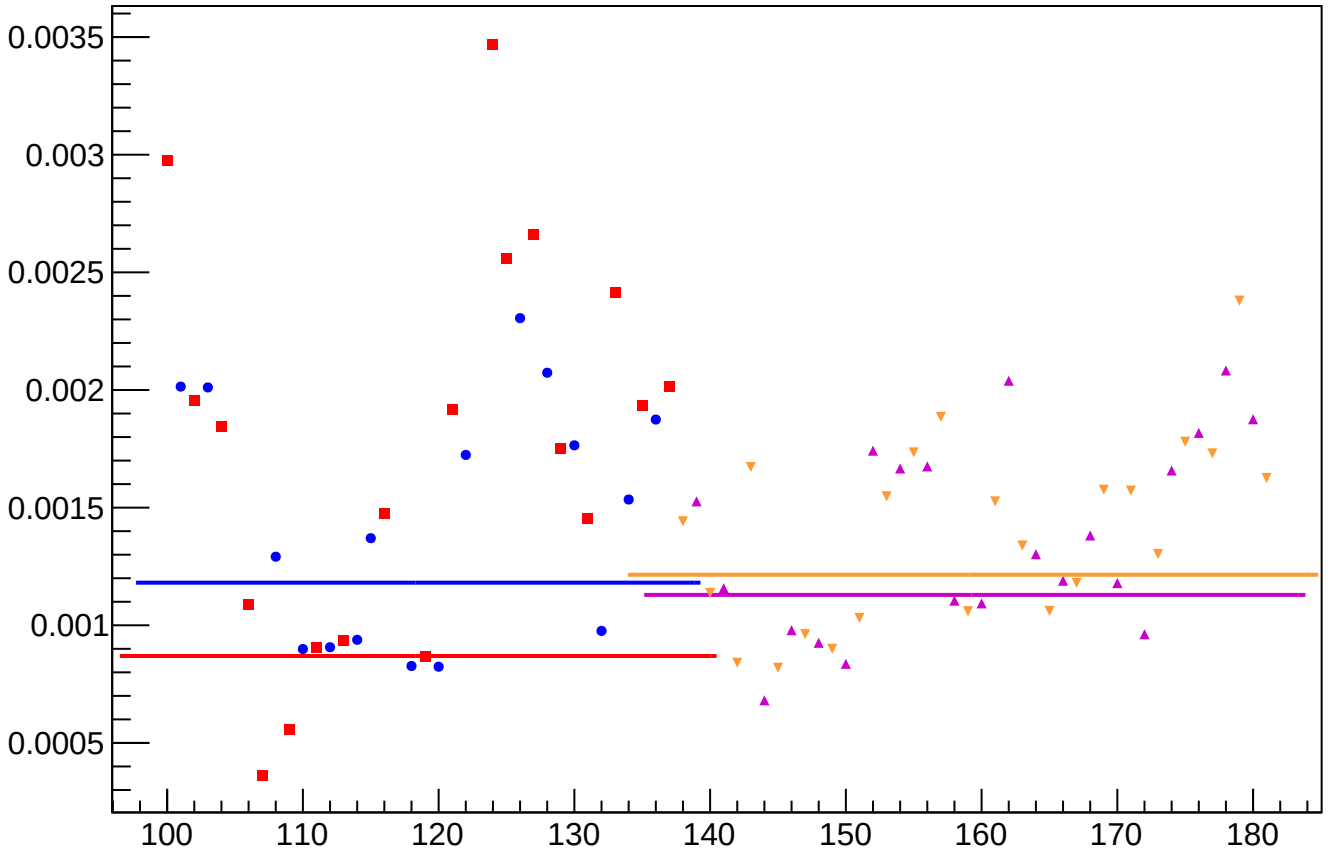
Left: -0.000+/-0.000 $\chi^2$/NDF: 53.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:36.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:49.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 86.3/78




Right In: 0.001+/-0.000 $\chi^2$/NDF: 1828304.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:2617151.7/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4435351.6/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:3193625.7/20

Left: 0.001+/-0.000 $\chi^2$/NDF: 5896115.3/43

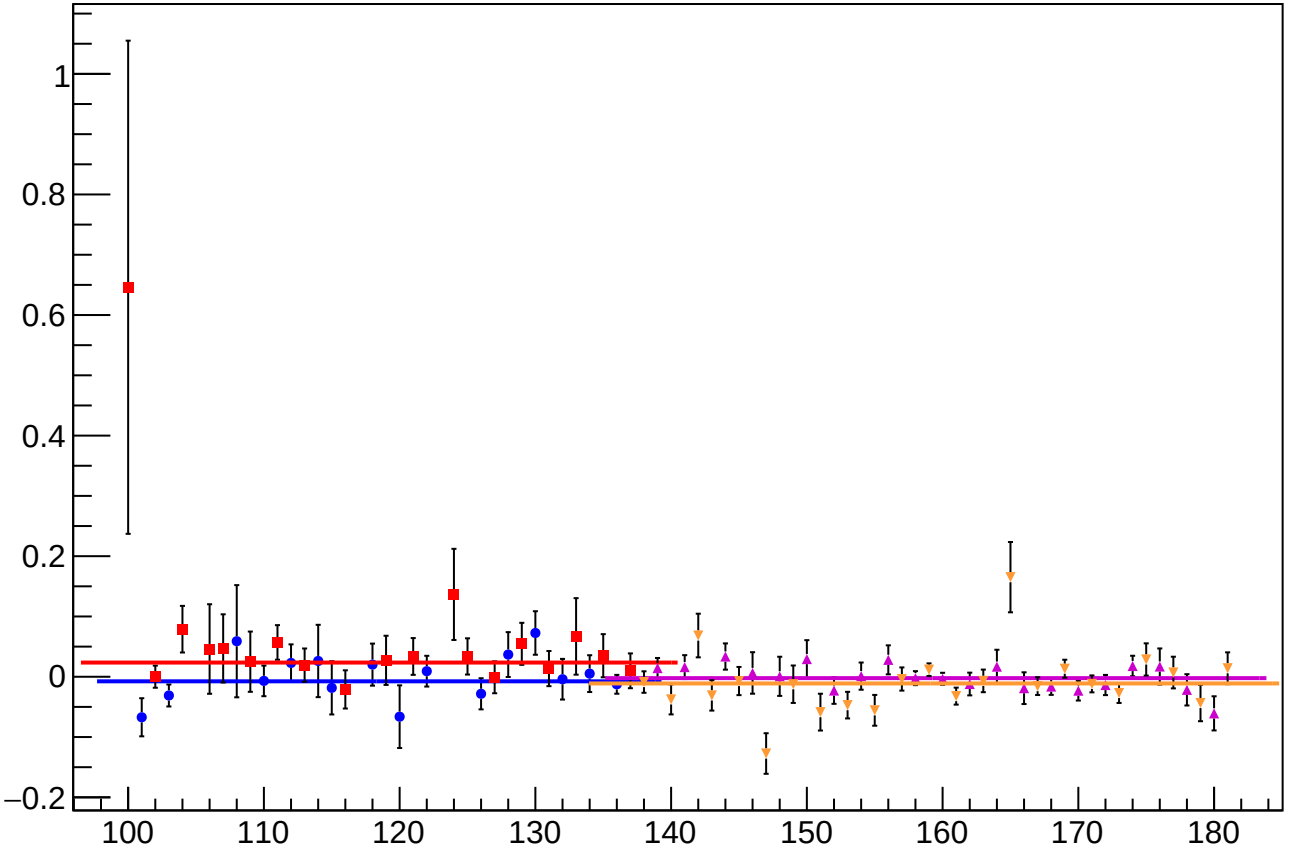
Right: 0.001+/-0.000 $\chi^2$/NDF: 6790405.1/34

In: 0.001+/-0.000 $\chi^2$/NDF:5039565.6/36

Out: 0.001+/-0.000 $\chi^2$/NDF:8071125.9/41

All: 0.001+/-0.000 $\chi^2$/NDF: 13171810.4/78

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.011+/-0.004 $\chi^2$/NDF:51.4/22

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: -0.002+/-0.004 $\chi^2$/NDF:19.0/20

Left: -0.007+/-0.003 $\chi^2$/NDF: 72.7/43

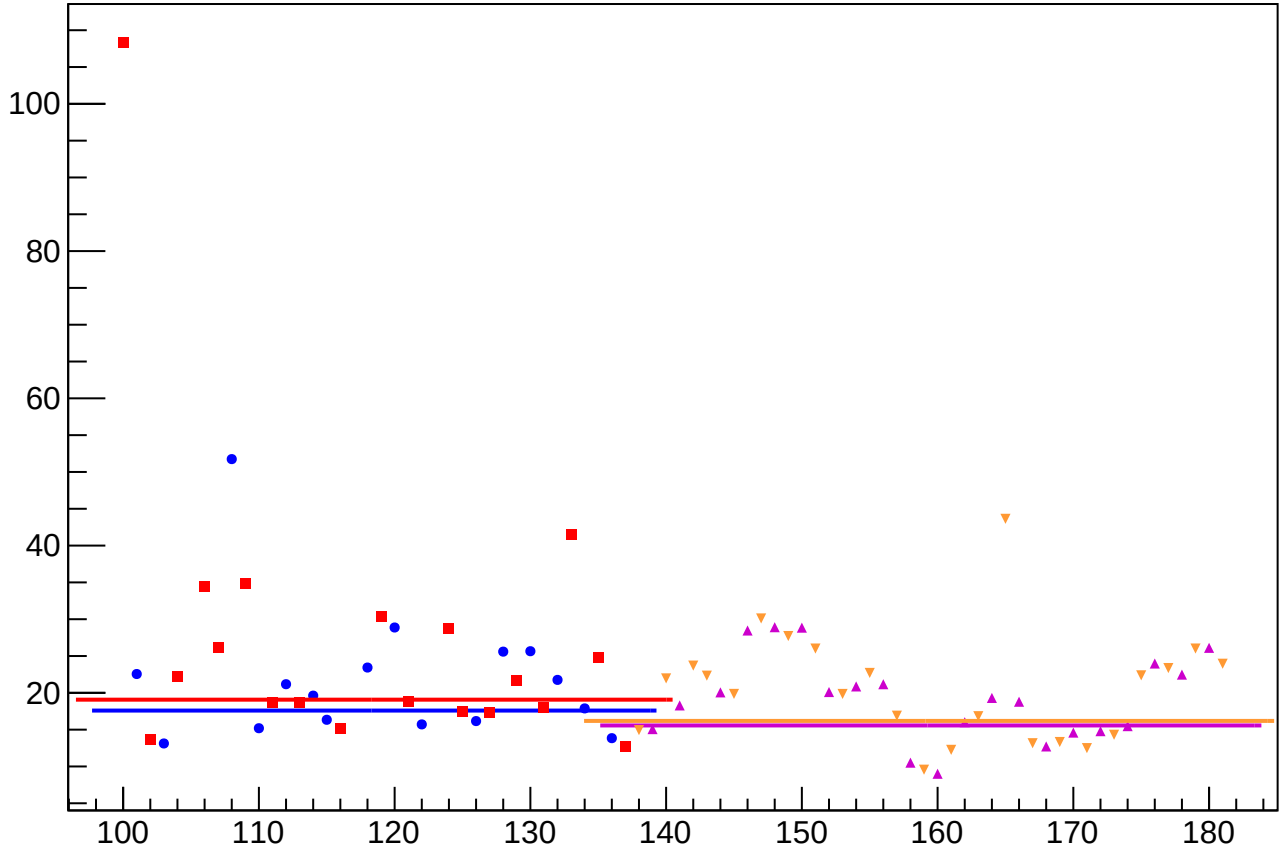
Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: -0.004+/-0.004 $\chi^2$/NDF:36.1/36

Out: -0.003+/-0.004 $\chi^2$/NDF:81.7/41

All: -0.004+/-0.003 $\chi^2$/NDF: 117.8/78

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993288.6/15

Left Out: 16.187+/-0.003 $\chi^2$/NDF:3750873.1/22

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247904.7/18

Left In: 15.570+/-0.003 $\chi^2$/NDF:3383235.2/20

Left: 15.876+/-0.002 $\chi^2$/NDF: 7156619.6/43

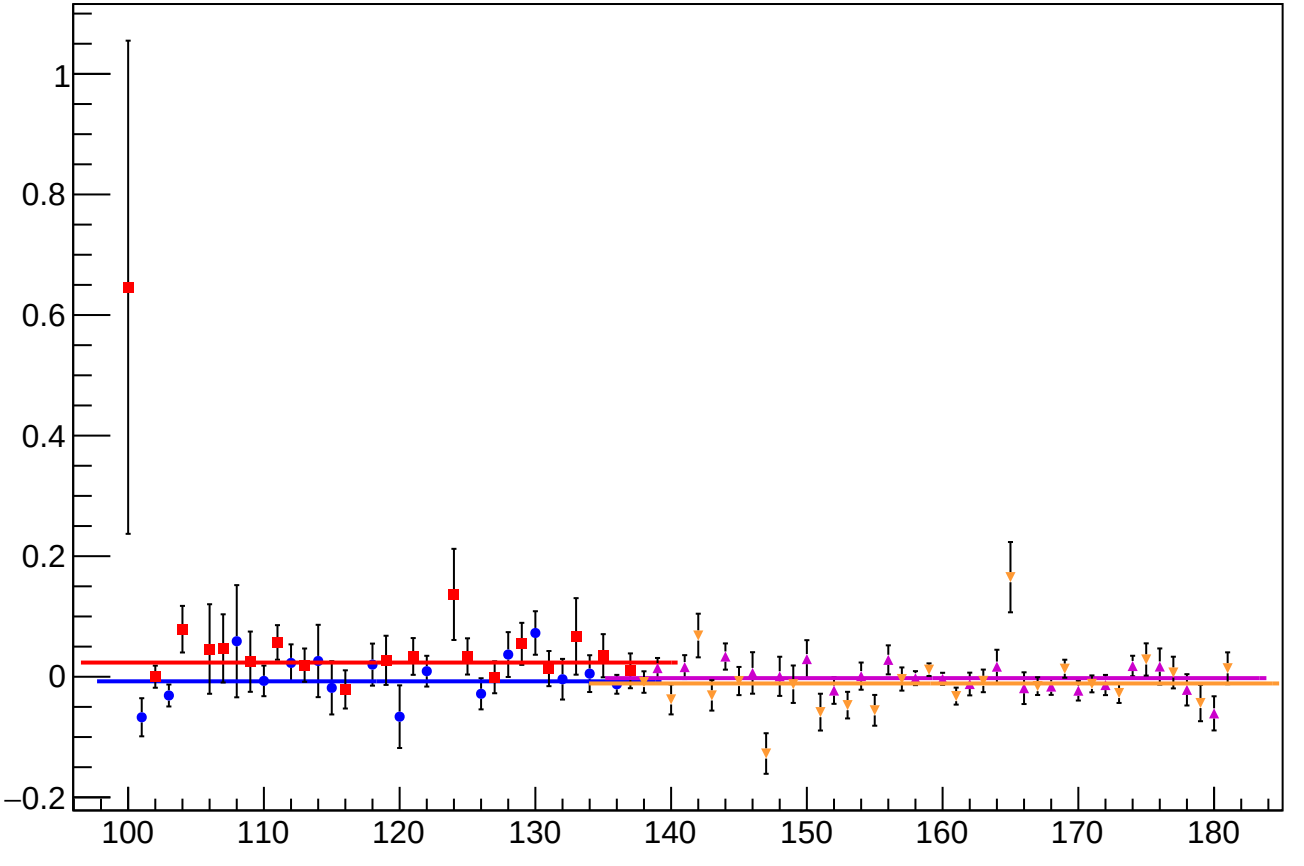
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280425.3/34

In: 16.065+/-0.003 $\chi^2$/NDF:4495581.6/36

Out: 16.825+/-0.003 $\chi^2$/NDF:5215046.8/41

All: 16.436+/-0.002 $\chi^2$/NDF: 9755220.6/78

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.011+/-0.004 $\chi^2$/NDF:51.4/22

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: -0.002+/-0.004 $\chi^2$/NDF:19.0/20

Left: -0.007+/-0.003 $\chi^2$/NDF: 72.7/43

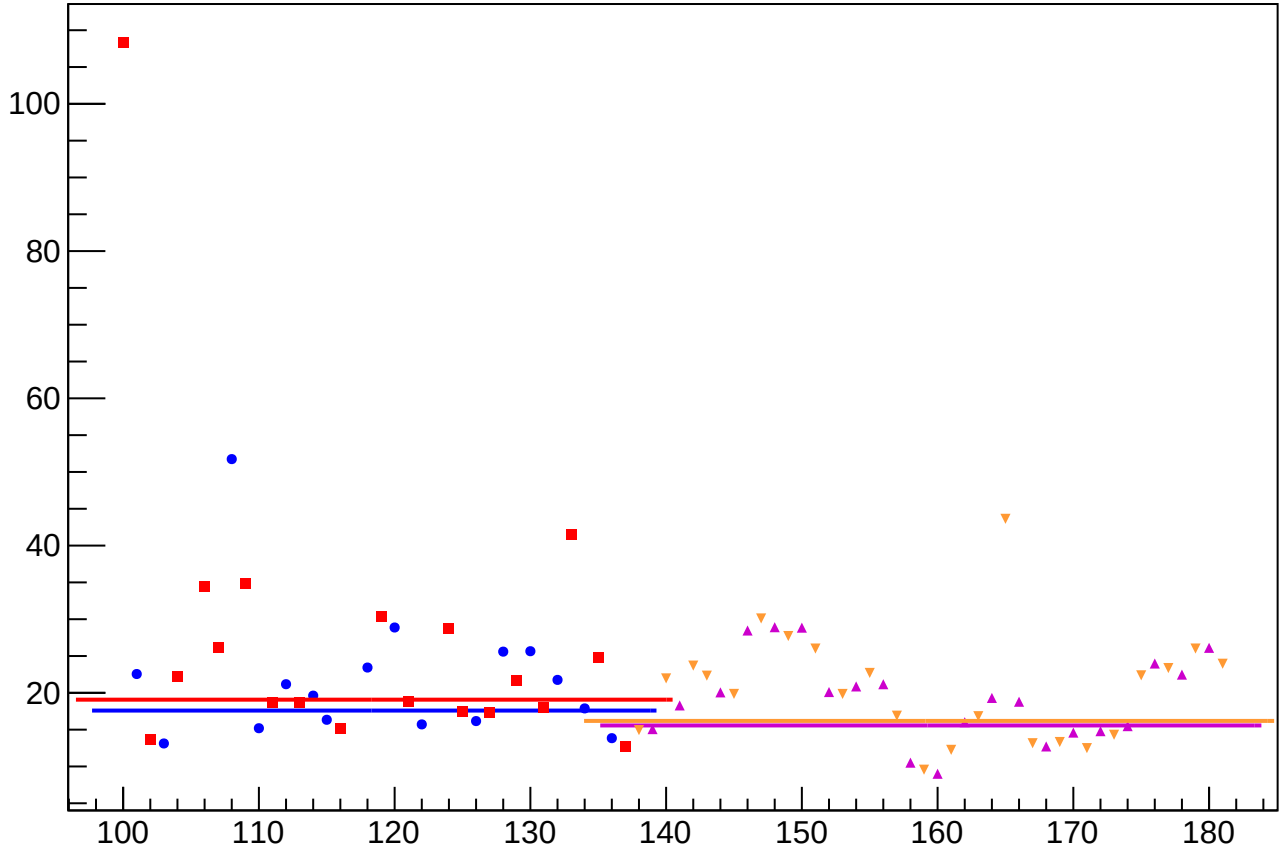
Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: -0.004+/-0.004 $\chi^2$/NDF:36.1/36

Out: -0.003+/-0.004 $\chi^2$/NDF:81.7/41

All: -0.004+/-0.003 $\chi^2$/NDF: 117.8/78

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993288.6/15

Left Out: 16.187+/-0.003 $\chi^2$/NDF:3750873.1/22

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247904.7/18

Left In: 15.570+/-0.003 $\chi^2$/NDF:3383235.2/20

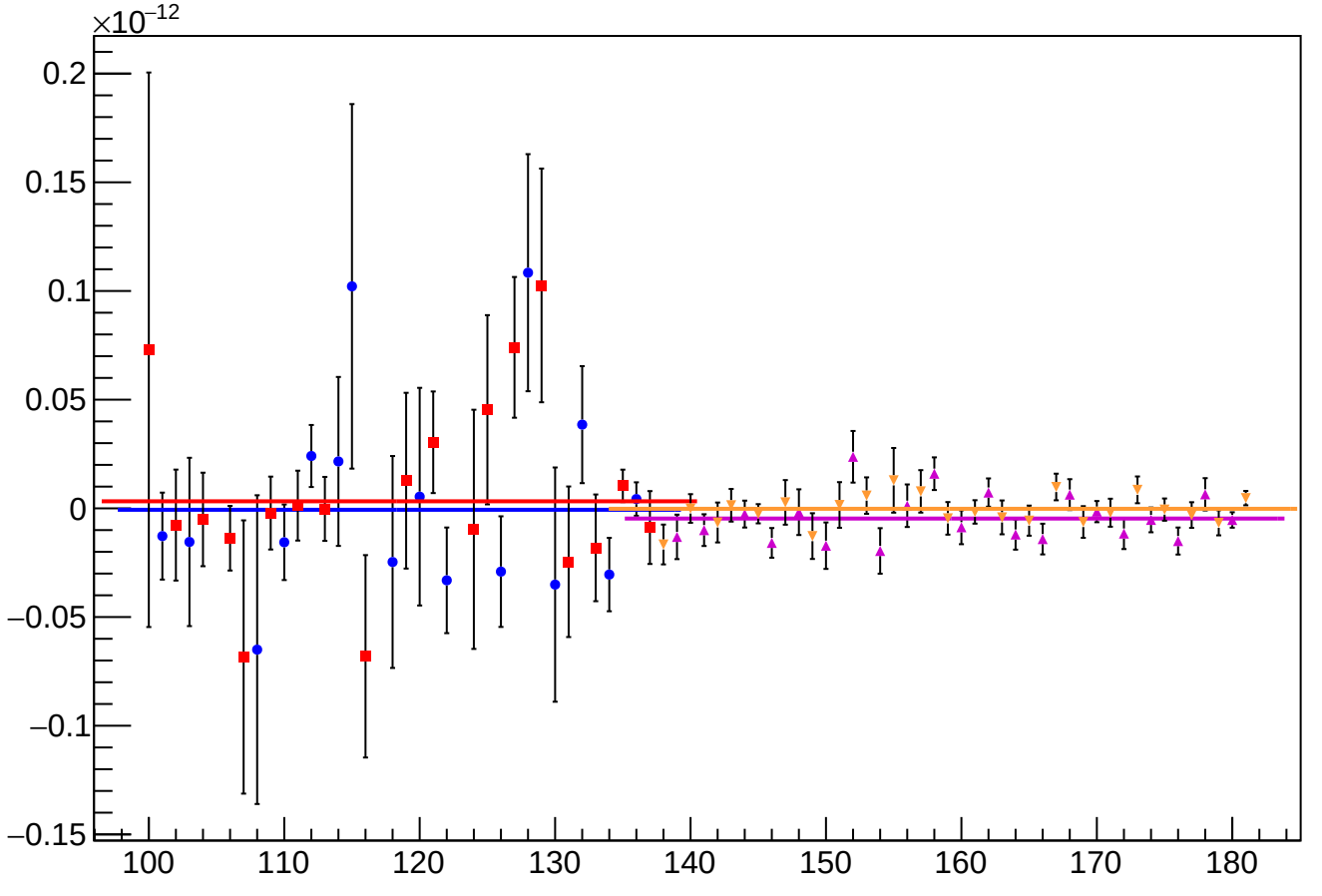
Left: 15.876+/-0.002 $\chi^2$/NDF: 7156619.6/43

Right: 18.278+/-0.004 $\chi^2$/NDF: 2280425.3/34

In: 16.065+/-0.003 $\chi^2$/NDF:4495581.6/36

Out: 16.825+/-0.003 $\chi^2$/NDF:5215046.8/41

All: 16.436+/-0.002 $\chi^2$/NDF: 9755220.6/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:36.5/20

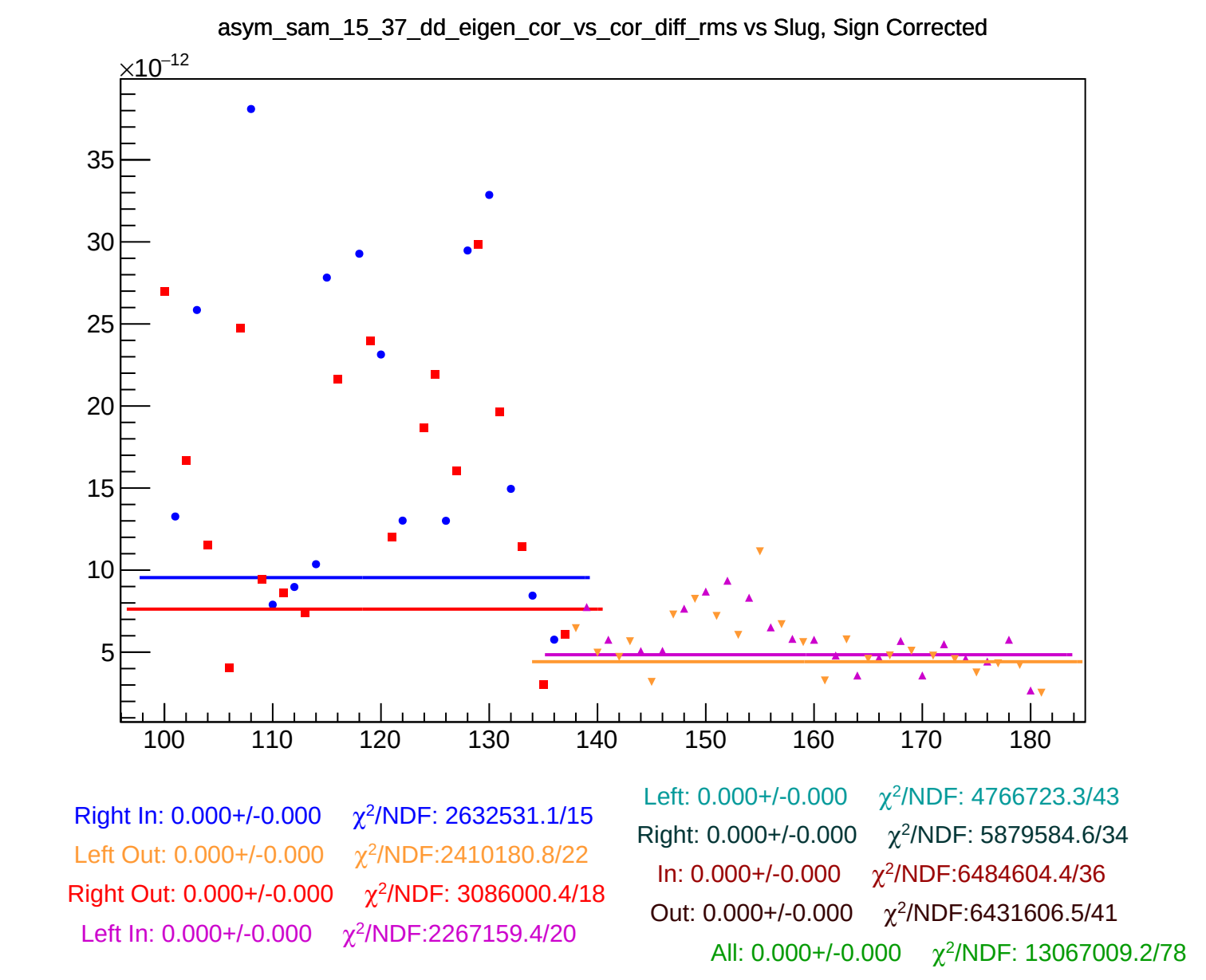
Left: -0.000+/-0.000 $\chi^2$/NDF: 59.5/43

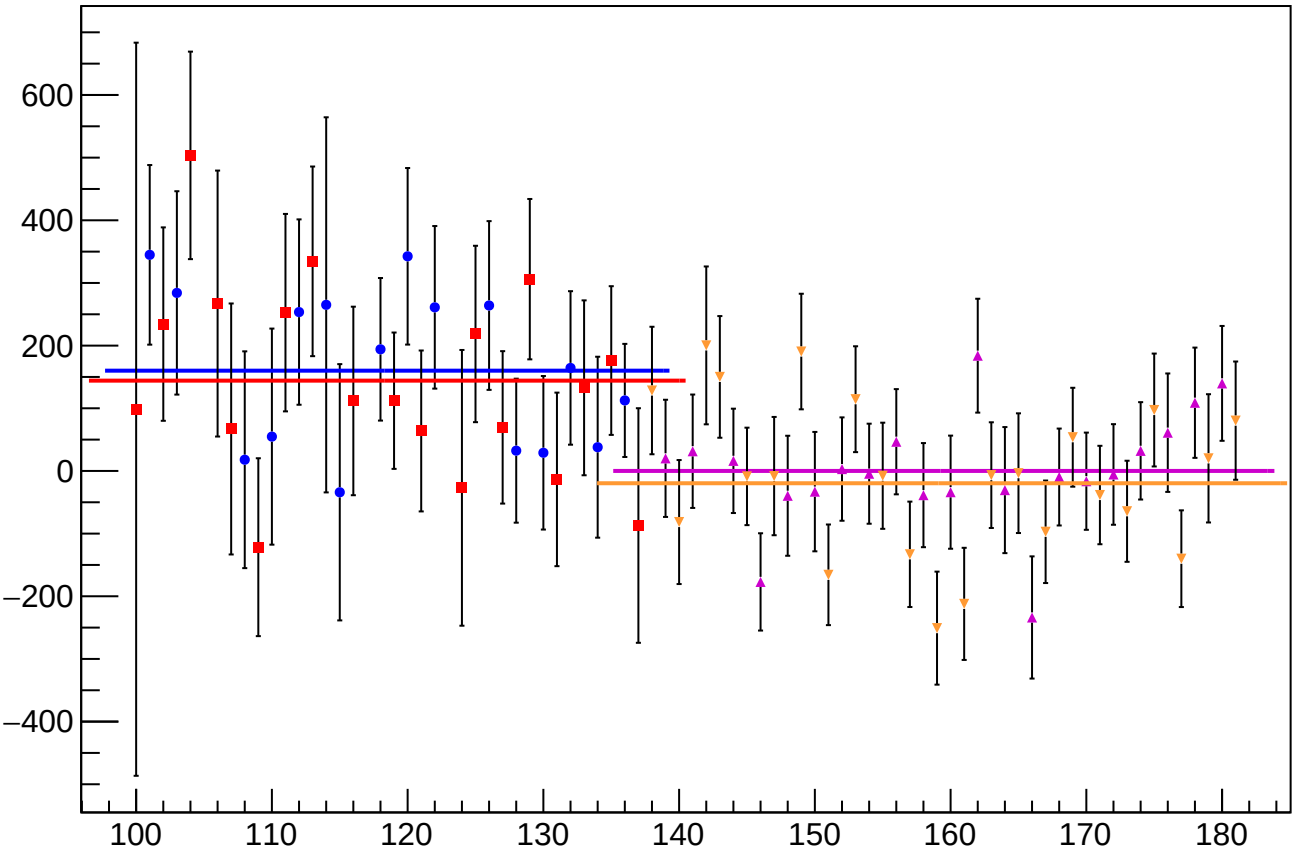
Right: 0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:57.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:37.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 100.4/78


asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻¹²
35
30
25
20
15
10
5
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2632531.1/15
Left Out: 0.000+/-0.000 χ²/NDF:2410180.8/22
Right Out: 0.000+/-0.000 χ²/NDF: 3086000.4/18
Left In: 0.000+/-0.000 χ²/NDF:2267159.4/20
Left: 0.000+/-0.000 χ²/NDF: 4766723.3/43
Right: 0.000+/-0.000 χ²/NDF: 5879584.6/34
In: 0.000+/-0.000 χ²/NDF:6484604.4/36
Out: 0.000+/-0.000 χ²/NDF:6431606.5/41
All: 0.000+/-0.000 χ²/NDF: 13067009.2/78




Right In: 160.024+/-34.170 $\chi^2$/NDF: 11.1/15

Left Out: -19.632+/-18.374 $\chi^2$/NDF:40.3/22

Right Out: 144.117+/-34.213 $\chi^2$/NDF: 17.4/18

Left In: 0.013+/-18.835 $\chi^2$/NDF:20.8/20

Left: -10.053+/-13.152 $\chi^2$/NDF: 61.7/43

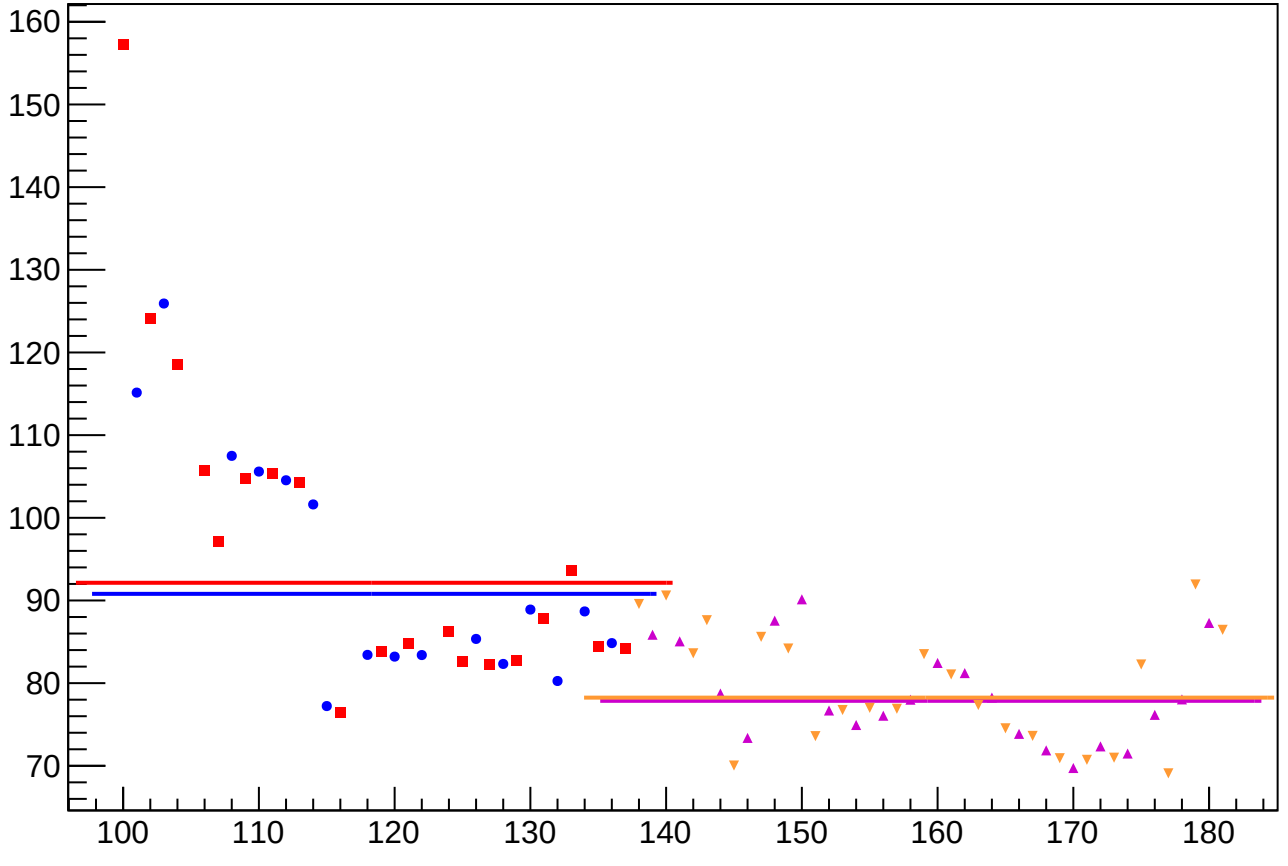
Right: 152.081+/-24.177 $\chi^2$/NDF: 28.6/34

In: 37.300+/-16.495 $\chi^2$/NDF:48.7/36

Out: 17.024+/-16.188 $\chi^2$/NDF:75.5/41

All: 26.971+/-11.553 $\chi^2$/NDF: 124.9/78

# reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272755.2/15

Left Out: 78.248+/-0.013 $\chi^2$/NDF:282536.0/22

Right Out: 92.141+/-0.024 $\chi^2$/NDF: 302032.4/18

Left In: 77.862+/-0.013 $\chi^2$/NDF:181838.7/20

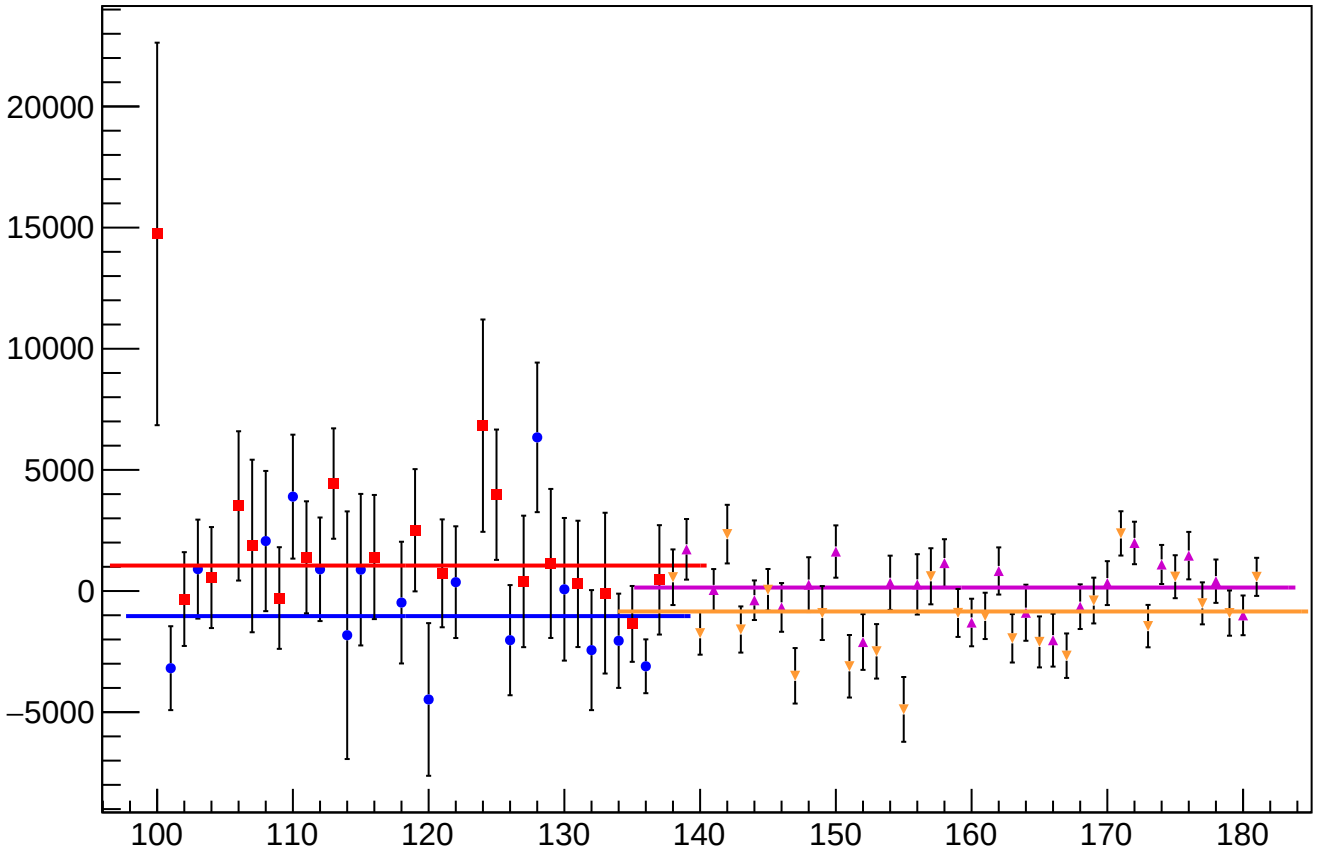
Left: 78.060+/-0.009 $\chi^2$/NDF: 464805.3/43

Right: 91.471+/-0.017 $\chi^2$/NDF: 576322.1/34

In: 80.877+/-0.012 $\chi^2$/NDF:674568.4/36

Out: 81.358+/-0.011 $\chi^2$/NDF:840526.9/41

All: 81.122+/-0.008 $\chi^2$/NDF: 1515961.1/78




Right In: -1035.032+/-550.207 $\chi^2$/NDF: 20.2/15

Left Out: -843.767+/-205.708 $\chi^2$/NDF:58.3/22

Right Out: 1051.517+/-568.935 $\chi^2$/NDF: 12.9/18

Left In: 143.884+/-213.046 $\chi^2$/NDF:27.3/20

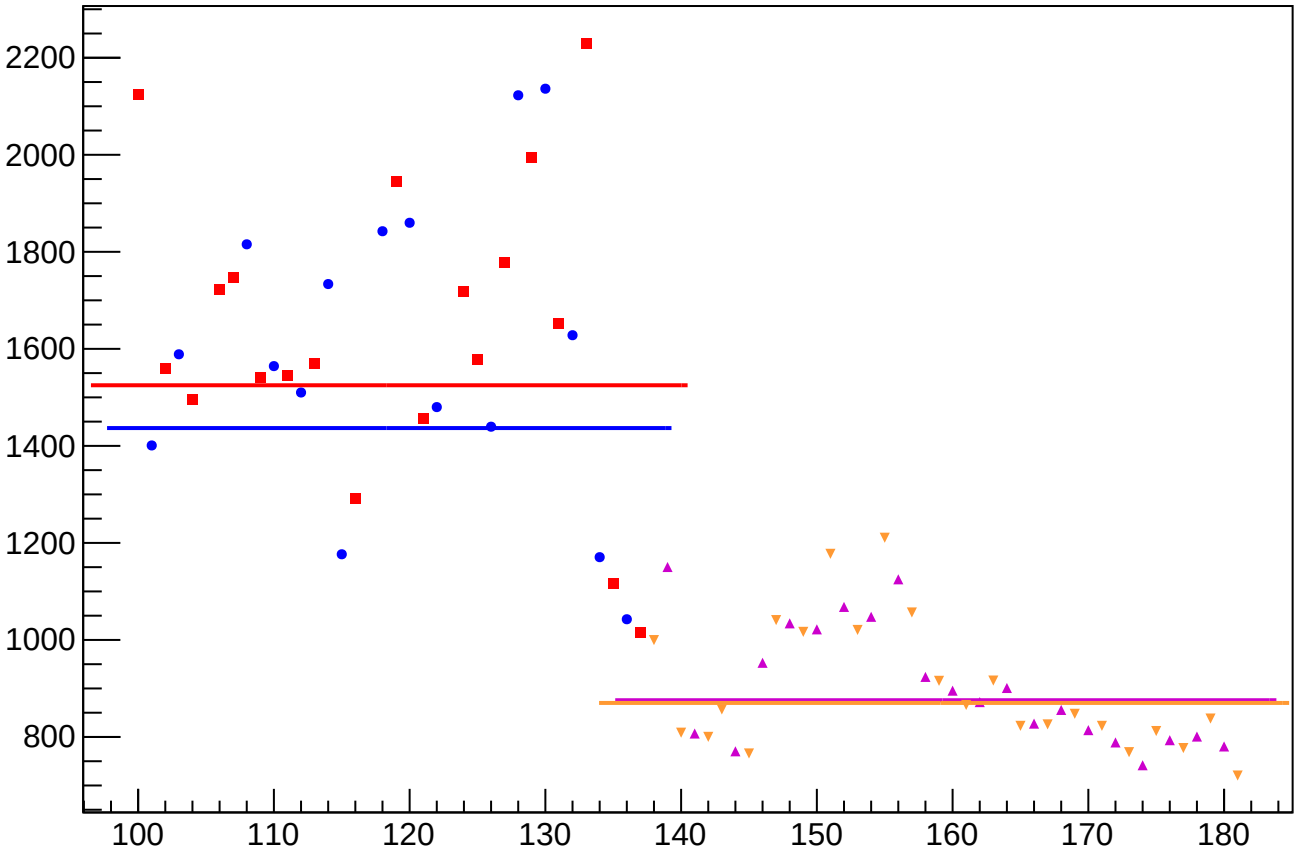
Left: -367.243+/-147.984 $\chi^2$/NDF: 96.8/43

Right: -26.665+/-395.510 $\chi^2$/NDF: 40.1/34

In: -9.828+/-198.673 $\chi^2$/NDF:51.6/36

Out: -624.641+/-193.452 $\chi^2$/NDF:81.0/41

All: -325.419+/-138.600 $\chi^2$/NDF: 137.5/78




Right In: 1436.734+/-0.389 $\chi^2$/NDF: 675672.3/15

Left Out: 870.161+/-0.145 $\chi^2$/NDF:638296.3/22

Right Out: 1524.955+/-0.402 $\chi^2$/NDF: 504563.9/18

Left In: 875.735+/-0.151 $\chi^2$/NDF:563863.3/20

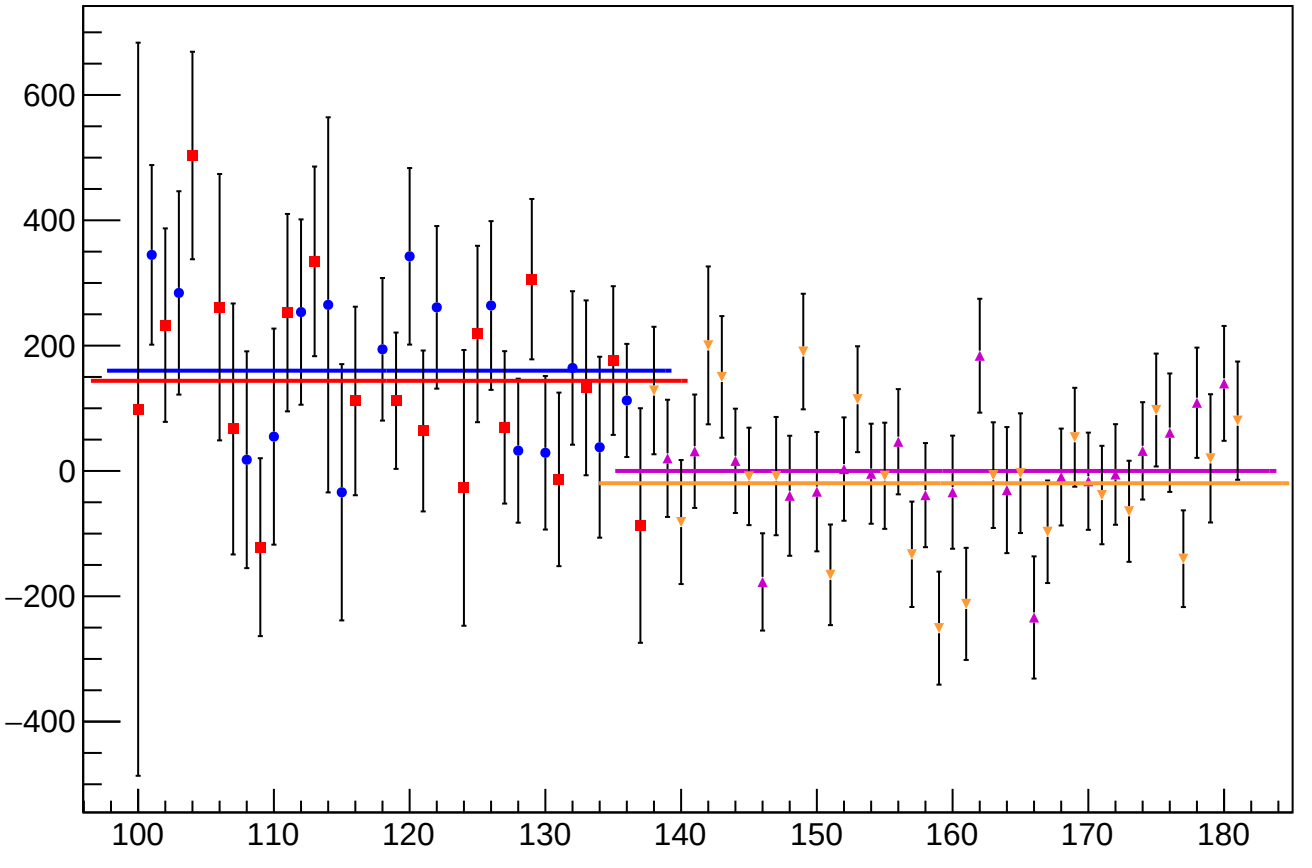
Left: 872.850+/-0.105 $\chi^2$/NDF: 1202868.0/43

Right: 1479.369+/-0.280 $\chi^2$/NDF: 1205085.6/34

In: 948.880+/-0.140 $\chi^2$/NDF:3047669.7/36

Out: 945.866+/-0.137 $\chi^2$/NDF:3485769.7/41

All: 947.333+/-0.098 $\chi^2$/NDF: 6533675.6/78




Right In: 160.020+/-34.170 $\chi^2$/NDF: 11.1/15

Left Out: -19.631+/-18.374 $\chi^2$/NDF:40.3/22

Right Out: 143.862+/-34.216 $\chi^2$/NDF: 17.3/18

Left In: 0.010+/-18.835 $\chi^2$/NDF:20.8/20

Left: -10.053+/-13.152 $\chi^2$/NDF: 61.7/43

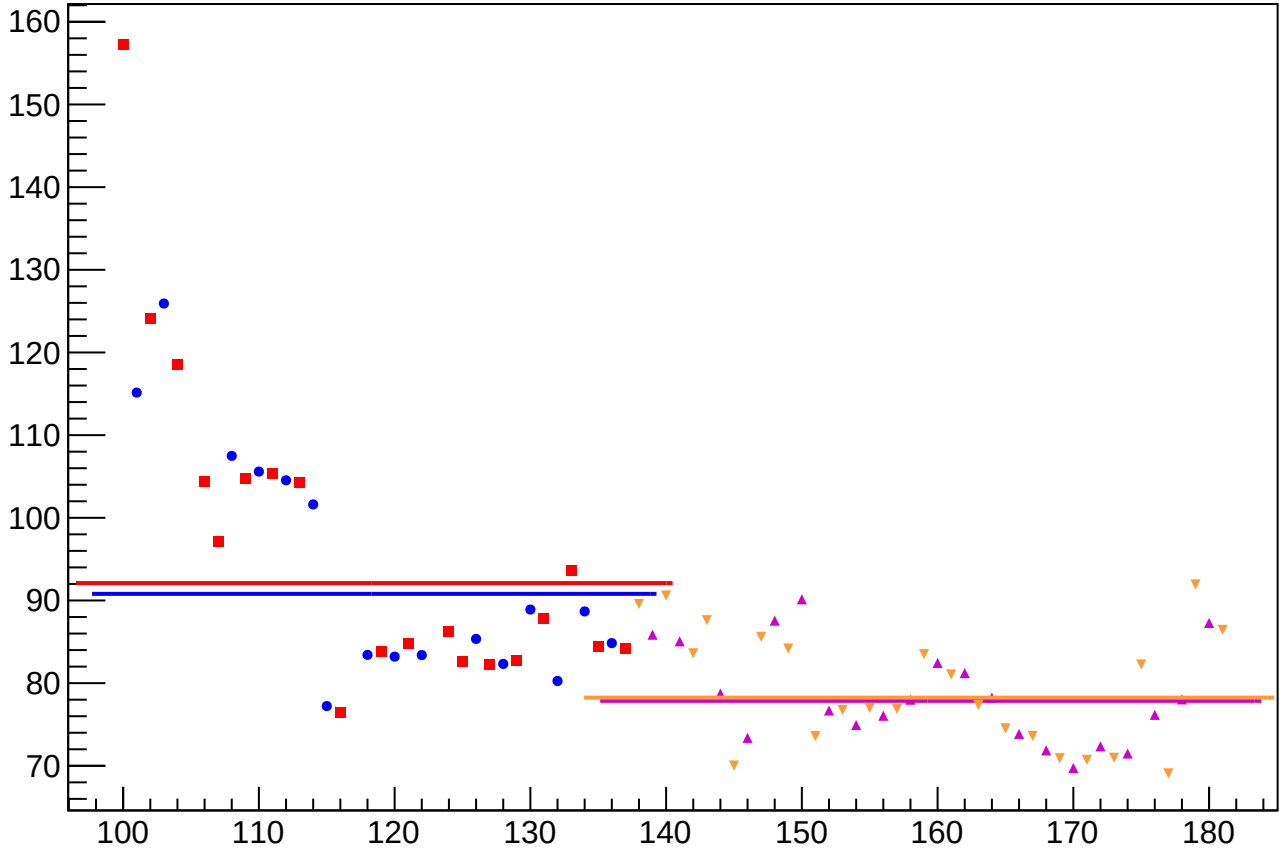
Right: 151.952+/-24.178 $\chi^2$/NDF: 28.5/34

In: 37.297+/-16.495 $\chi^2$/NDF:48.7/36

Out: 16.965+/-16.188 $\chi^2$/NDF:75.4/41

All: 26.940+/-11.554 $\chi^2$/NDF: 124.8/78

# cor_asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272757.0/15

Left Out: 78.248+/-0.013 $\chi^2$/NDF:282536.1/22

Right Out: 92.108+/-0.024 $\chi^2$/NDF: 300768.0/18

Left In: 77.862+/-0.013 $\chi^2$/NDF:181838.7/20

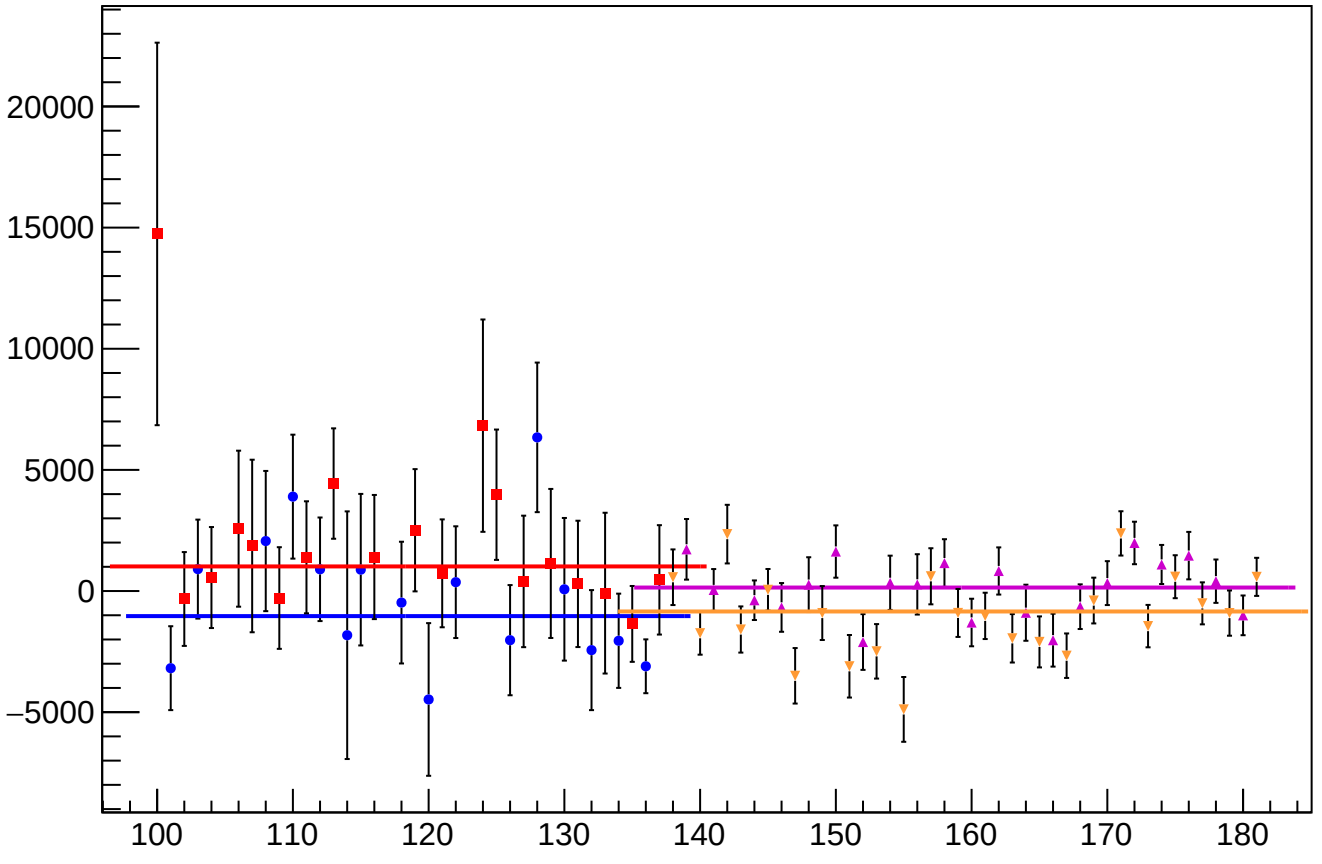
Left: 78.060+/-0.009 $\chi^2$/NDF: 464805.3/43

Right: 91.454+/-0.017 $\chi^2$/NDF: 574984.5/34

In: 80.877+/-0.012 $\chi^2$/NDF:674570.4/36

Out: 81.351+/-0.011 $\chi^2$/NDF:838020.2/41

All: 81.118+/-0.008 $\chi^2$/NDF: 1513428.8/78




Right In: -1035.009+/-550.208 $\chi^2$/NDF: 20.2/15

Left Out: -843.765+/-205.708 $\chi^2$/NDF:58.3/22

Right Out: 1015.387+/-569.773 $\chi^2$/NDF: 12.5/18

Left In: 143.884+/-213.046 $\chi^2$/NDF:27.3/20

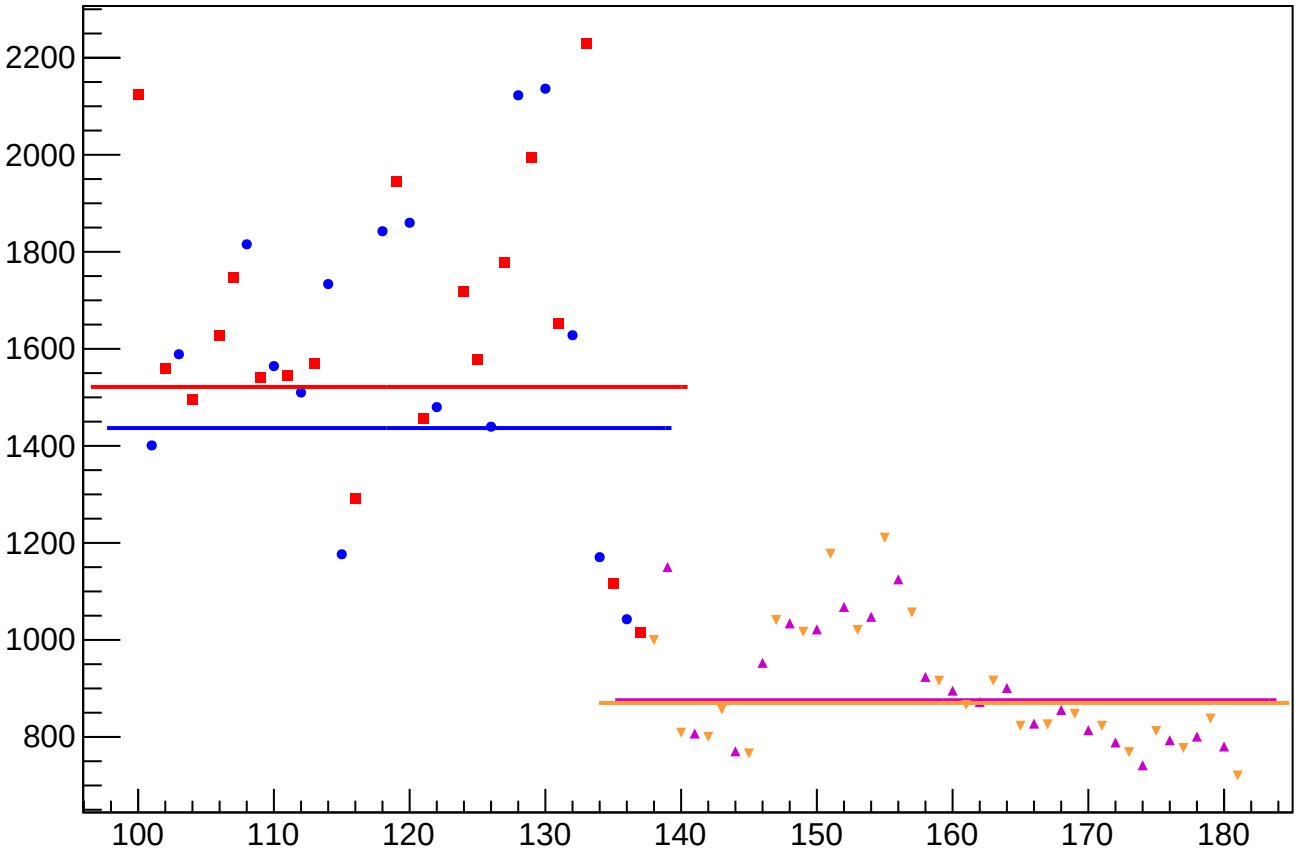
Left: -367.243+/-147.984 $\chi^2$/NDF: 96.8/43

Right: -45.617+/-395.792 $\chi^2$/NDF: 39.4/34

In: -9.824+/-198.673 $\chi^2$/NDF:51.6/36

Out: -629.375+/-193.484 $\chi^2$/NDF:80.2/41

All: -327.795+/-138.612 $\chi^2$/NDF: 136.8/78




Right In: 1436.738+/-0.389 $\chi^2$/NDF: 675680.8/15

Left Out: 870.161+/-0.145 $\chi^2$/NDF:638296.2/22

Right Out: 1521.496+/-0.403 $\chi^2$/NDF: 498363.4/18

Left In: 875.735+/-0.151 $\chi^2$/NDF:563861.9/20

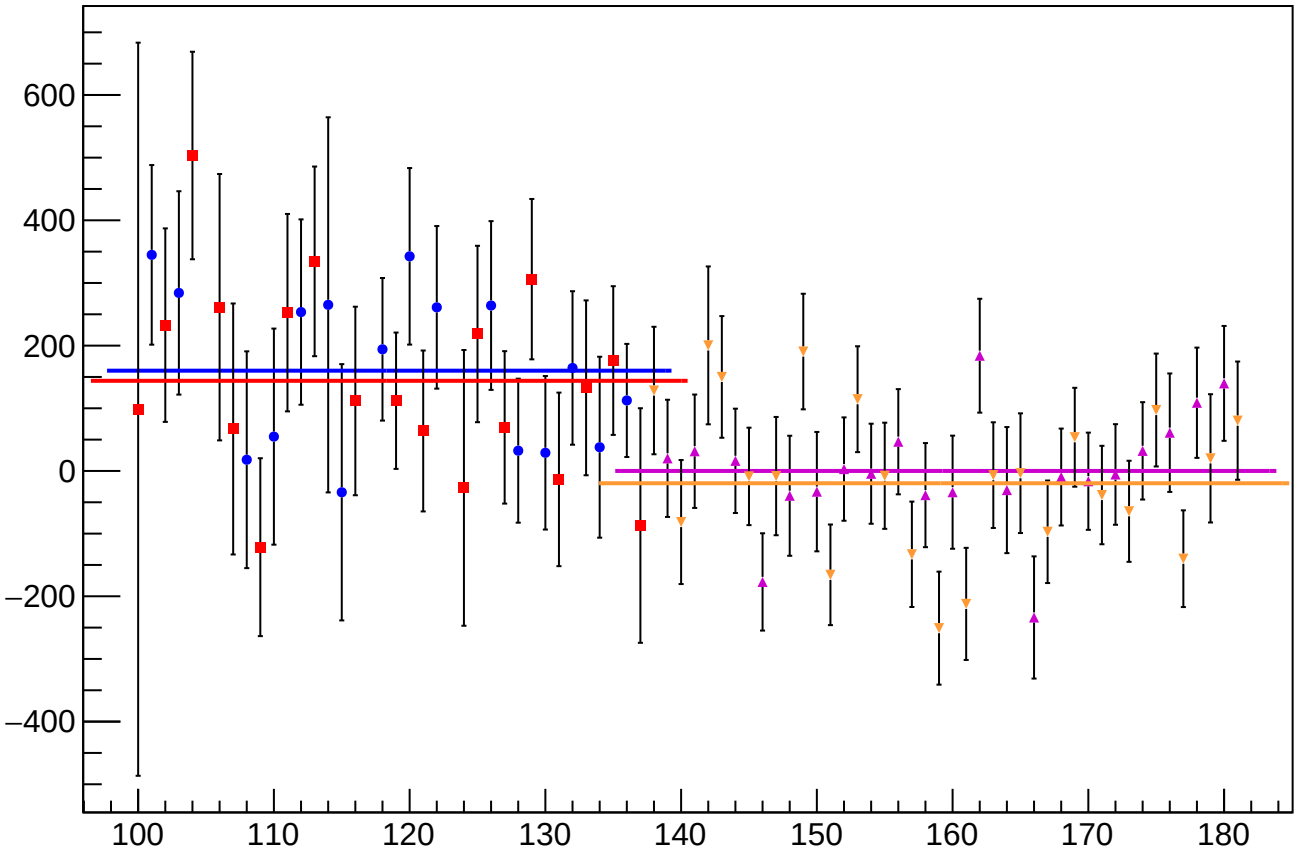
Left: 872.850+/-0.105 $\chi^2$/NDF: 1202866.6/43

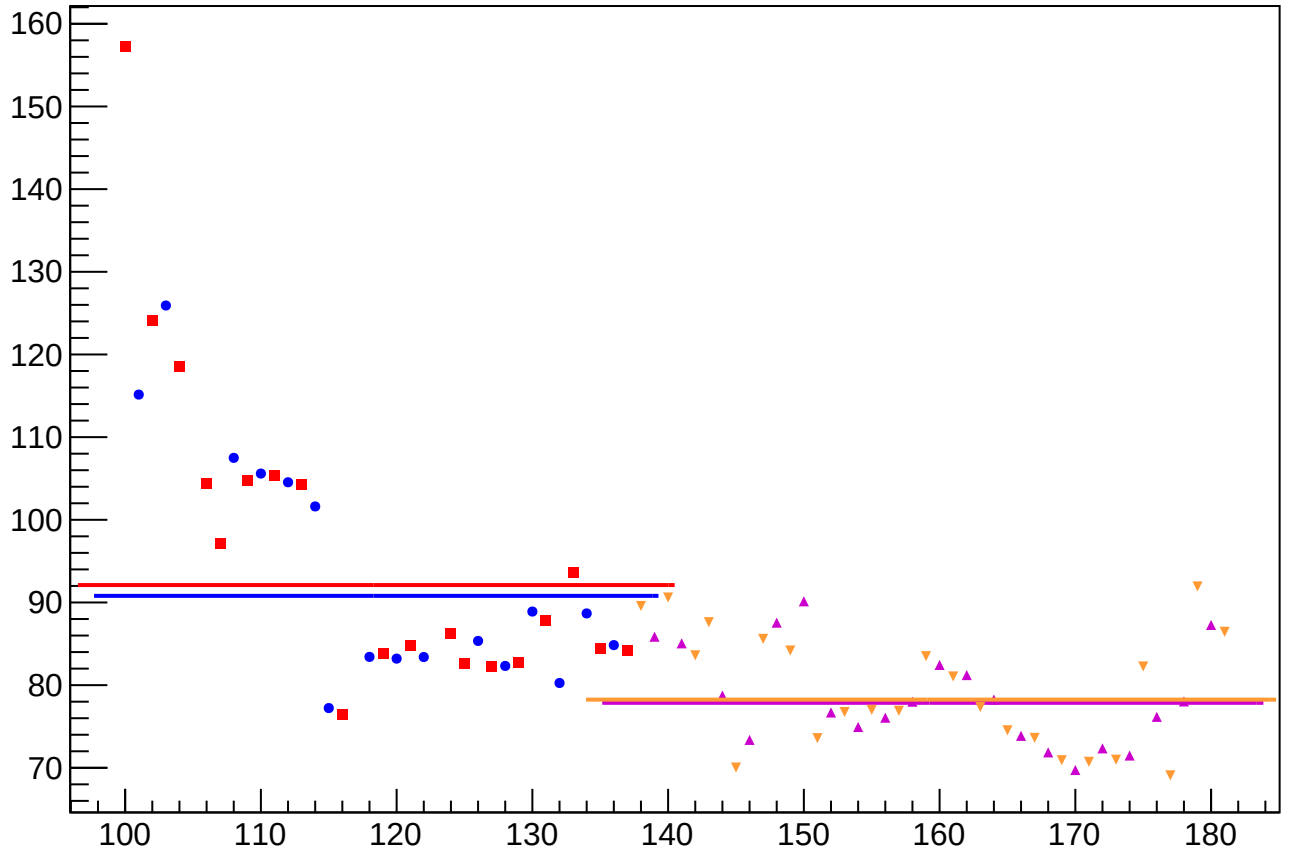
Right: 1477.637+/-0.280 $\chi^2$/NDF: 1196946.2/34

In: 948.880+/-0.140 $\chi^2$/NDF:3047688.1/36

Out: 945.270+/-0.137 $\chi^2$/NDF:3448852.6/41

All: 947.028+/-0.098 $\chi^2$/NDF: 6496879.6/78


eigen_cor_asym_sam_24_68_dd_mean vs Slug, Sign Corrected
600
400
200
0
−200
−400
100
110
120
130
140
150
160
170
180
Right In: 160.020+/-34.170 χ²/NDF: 11.1/15
Left Out: -19.631+/-18.374 χ²/NDF:40.3/22
Right Out: 143.862+/-34.216 χ²/NDF: 17.3/18
Left In: 0.010+/-18.835 χ²/NDF:20.8/20
Left: -10.053+/-13.152 χ²/NDF: 61.7/43
Right: 151.952+/-24.178 χ²/NDF: 28.5/34
In: 37.297+/-16.495 χ²/NDF:48.7/36
Out: 16.965+/-16.188 χ²/NDF:75.4/41
All: 26.940+/-11.554 χ²/NDF: 124.8/78




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272757.0/15

Left Out: 78.248+/-0.013 $\chi^2$/NDF:282536.1/22

Right Out: 92.108+/-0.024 $\chi^2$/NDF: 300768.0/18

Left In: 77.862+/-0.013 $\chi^2$/NDF:181838.7/20

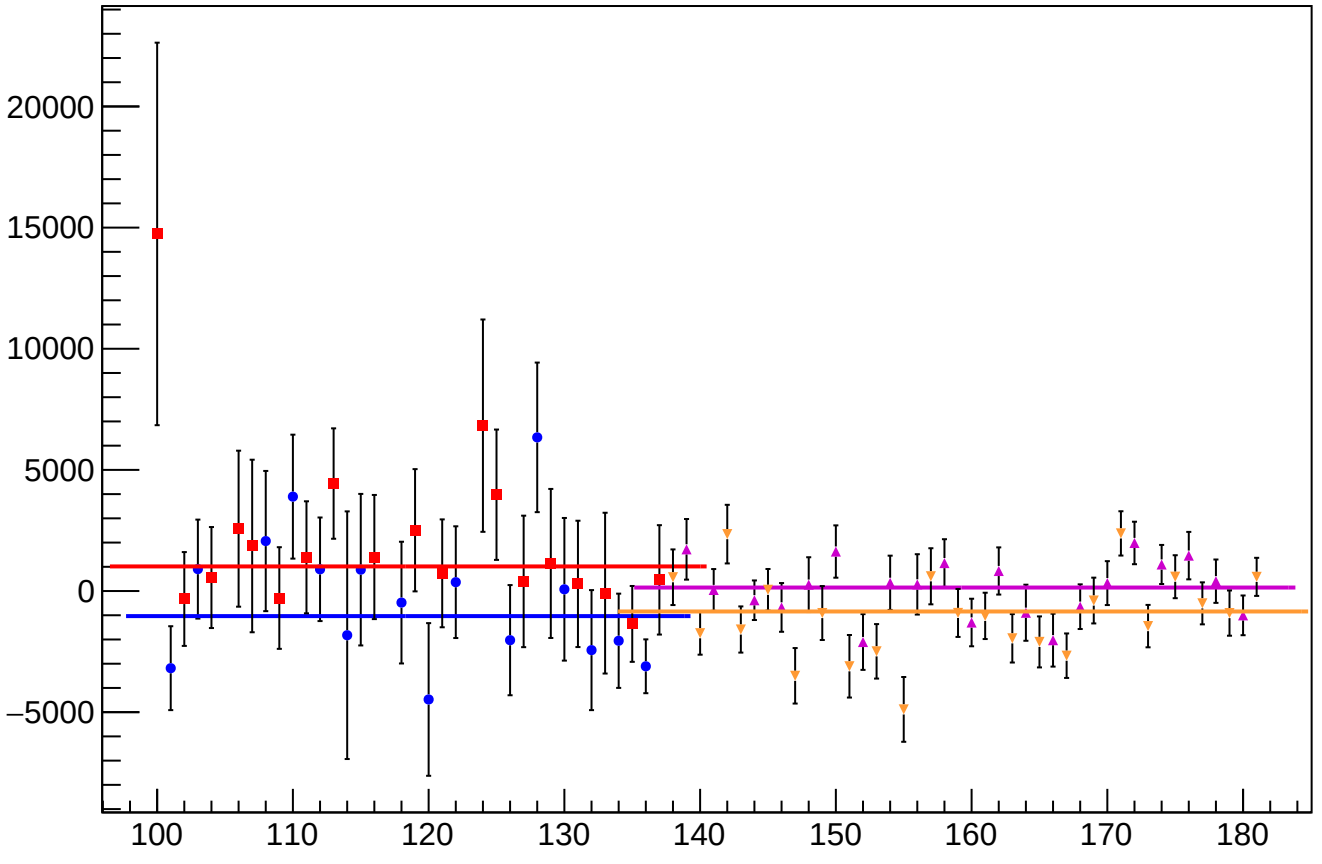
Left: 78.060+/-0.009 $\chi^2$/NDF: 464805.3/43

Right: 91.454+/-0.017 $\chi^2$/NDF: 574984.5/34

In: 80.877+/-0.012 $\chi^2$/NDF:674570.4/36

Out: 81.351+/-0.011 $\chi^2$/NDF:838020.2/41

All: 81.118+/-0.008 $\chi^2$/NDF: 1513428.8/78




Right In: -1035.009+/-550.208 $\chi^2$/NDF: 20.2/15

Left Out: -843.765+/-205.708 $\chi^2$/NDF:58.3/22

Right Out: 1015.387+/-569.773 $\chi^2$/NDF: 12.5/18

Left In: 143.884+/-213.046 $\chi^2$/NDF:27.3/20

Left: -367.243+/-147.984 $\chi^2$/NDF: 96.8/43

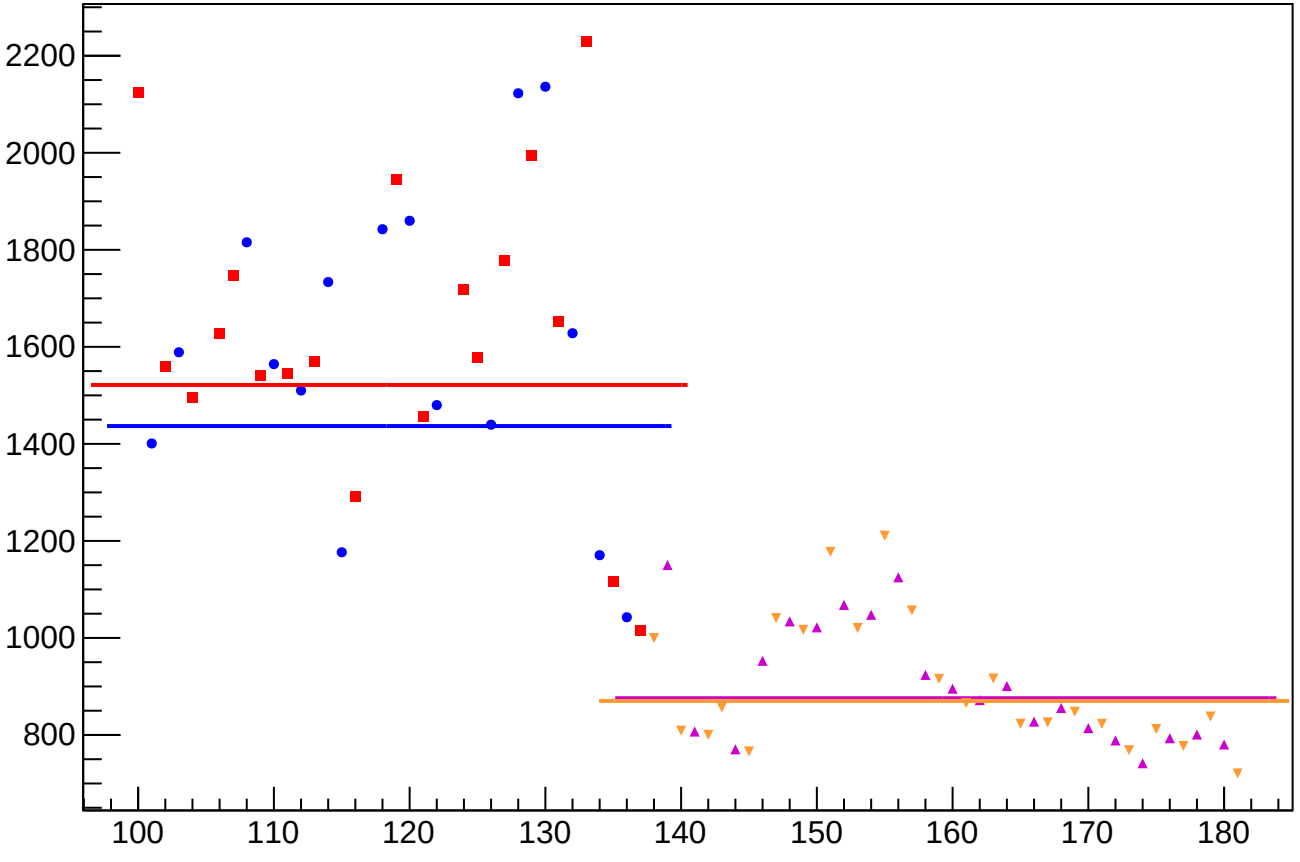
Right: -45.617+/-395.792 $\chi^2$/NDF: 39.4/34

In: -9.824+/-198.673 $\chi^2$/NDF:51.6/36

Out: -629.375+/-193.484 $\chi^2$/NDF:80.2/41

All: -327.795+/-138.612 $\chi^2$/NDF: 136.8/78

asym_sam_24_68_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1436.738+/-0.389 $\chi^2$/NDF: 675680.8/15

Left Out: 870.161+/-0.145 $\chi^2$/NDF:638296.2/22

Right Out: 1521.496+/-0.403 $\chi^2$/NDF: 498363.4/18

Left In: 875.735+/-0.151 $\chi^2$/NDF:563861.9/20

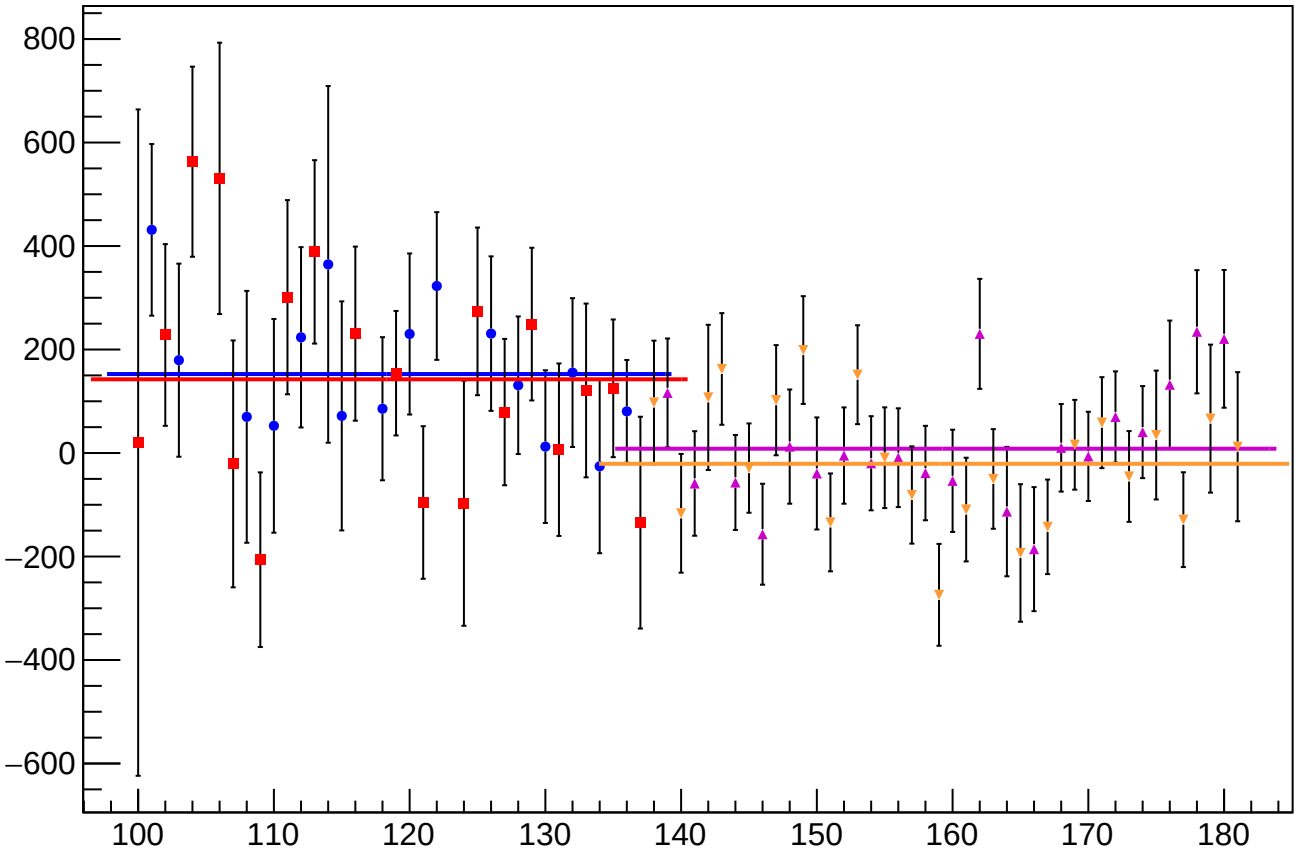
Left: 872.850+/-0.105 $\chi^2$/NDF: 1202866.6/43

Right: 1477.637+/-0.280 $\chi^2$/NDF: 1196946.2/34

In: 948.880+/-0.140 $\chi^2$/NDF:3047688.1/36

Out: 945.270+/-0.137 $\chi^2$/NDF:3448852.6/41

All: 947.028+/-0.098 $\chi^2$/NDF: 6496879.6/78




Right In: 152.626+/-39.446 $\chi^2$/NDF: 8.6/15

Left Out: -20.823+/-21.330 $\chi^2$/NDF:30.4/22

Right Out: 142.496+/-39.340 $\chi^2$/NDF: 22.9/18

Left In: 8.343+/-21.864 $\chi^2$/NDF:21.6/20

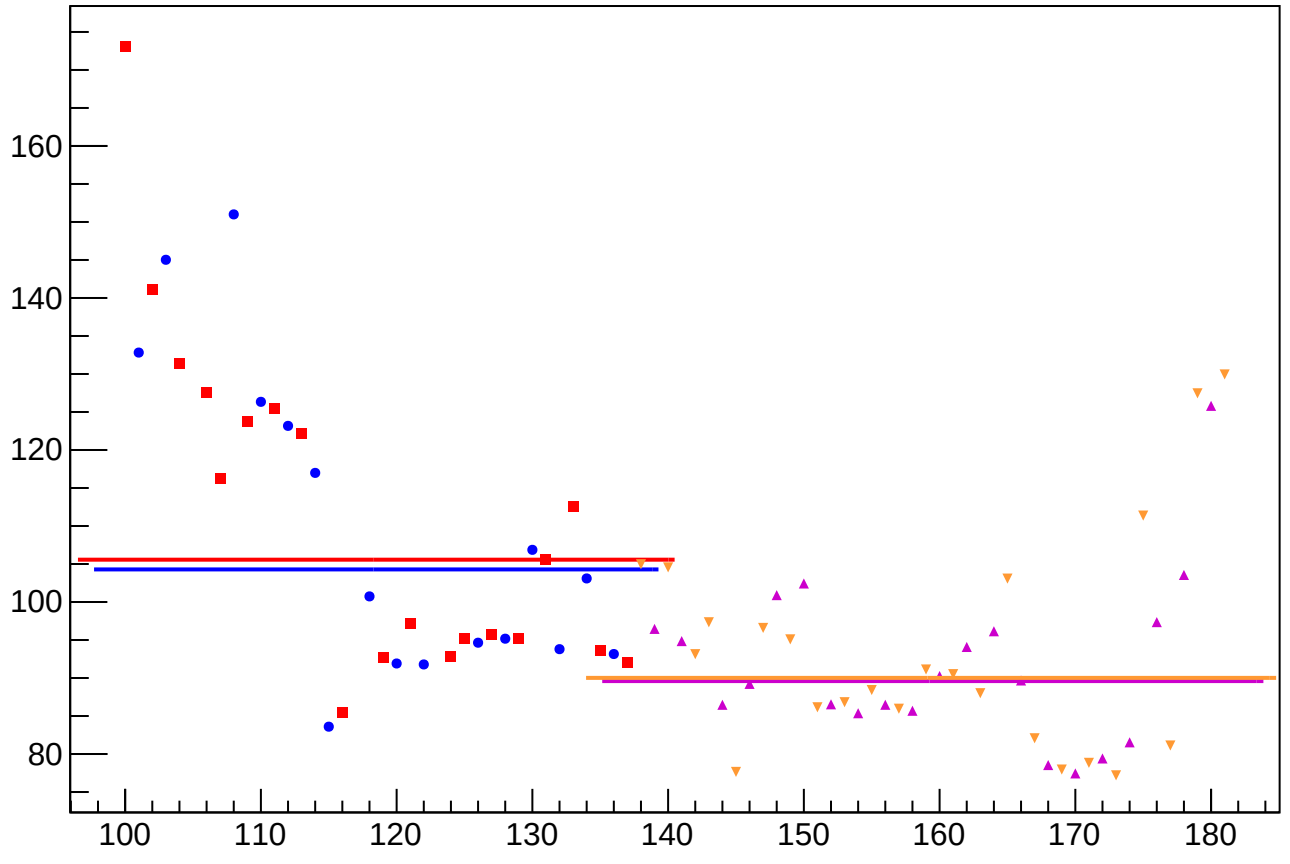
Left: -6.601+/-15.268 $\chi^2$/NDF: 52.8/43

Right: 147.548+/-27.855 $\chi^2$/NDF: 31.6/34

In: 42.252+/-19.123 $\chi^2$/NDF:40.5/36

Out: 16.280+/-18.751 $\chi^2$/NDF:66.6/41

All: 29.011+/-13.389 $\chi^2$/NDF: 108.0/78




Right In: 104.286+/-0.028 $\chi^2$/NDF: 378310.9/15

Left Out: 90.017+/-0.015 $\chi^2$/NDF:654669.3/22

Right Out: 105.568+/-0.028 $\chi^2$/NDF: 344605.9/18

Left In: 89.594+/-0.015 $\chi^2$/NDF:387153.8/20

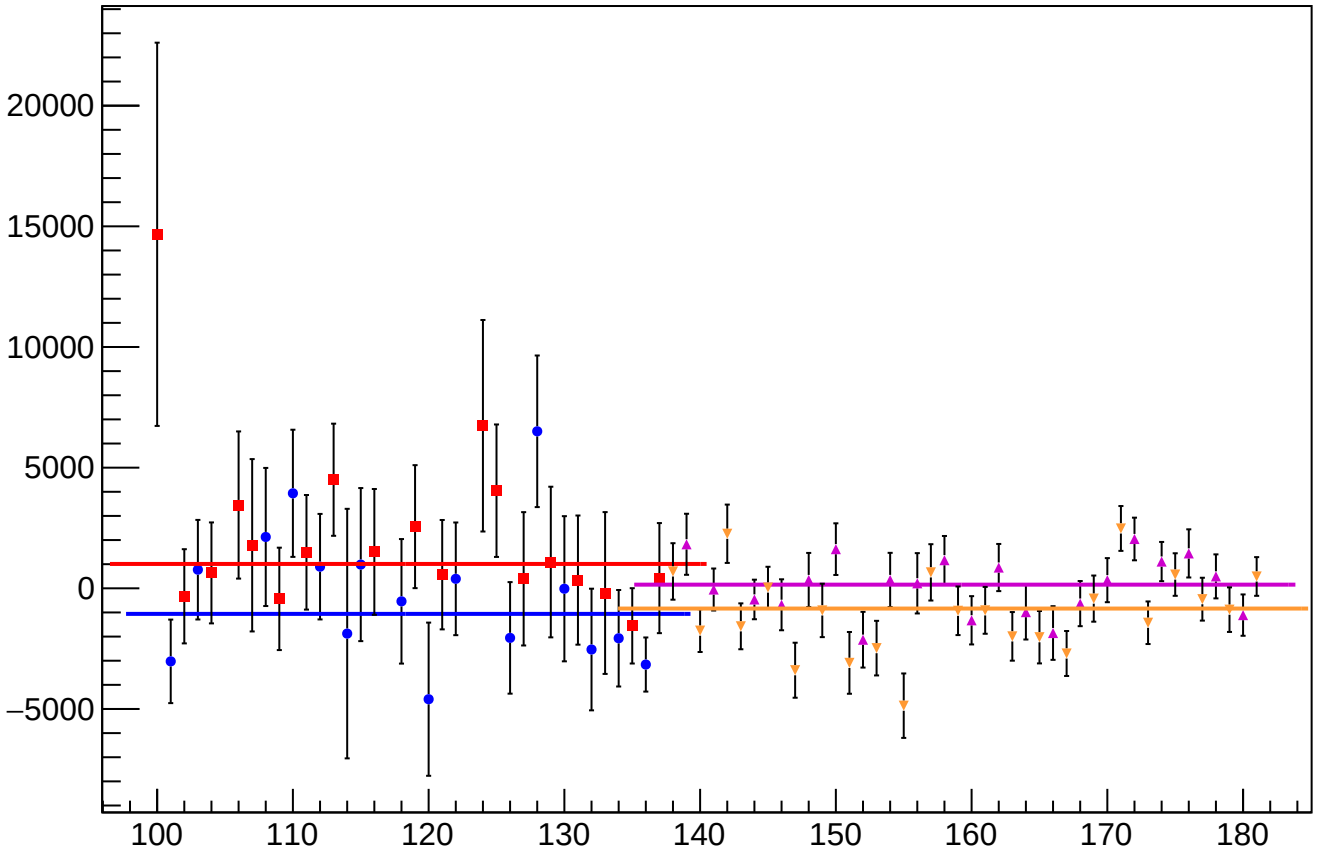
Left: 89.811+/-0.011 $\chi^2$/NDF: 1042205.5/43

Right: 104.929+/-0.020 $\chi^2$/NDF: 723975.9/34

In: 93.047+/-0.014 $\chi^2$/NDF:977704.9/36

Out: 93.550+/-0.013 $\chi^2$/NDF:1240811.0/41

All: 93.303+/-0.009 $\chi^2$/NDF: 2219219.9/78




Right In: -1059.357+/-557.645 $\chi^2$/NDF: 20.0/15

Left Out: -838.496+/-207.286 $\chi^2$/NDF:57.4/22

Right Out: 1009.907+/-575.100 $\chi^2$/NDF: 13.3/18

Left In: 151.848+/-215.604 $\chi^2$/NDF:27.5/20

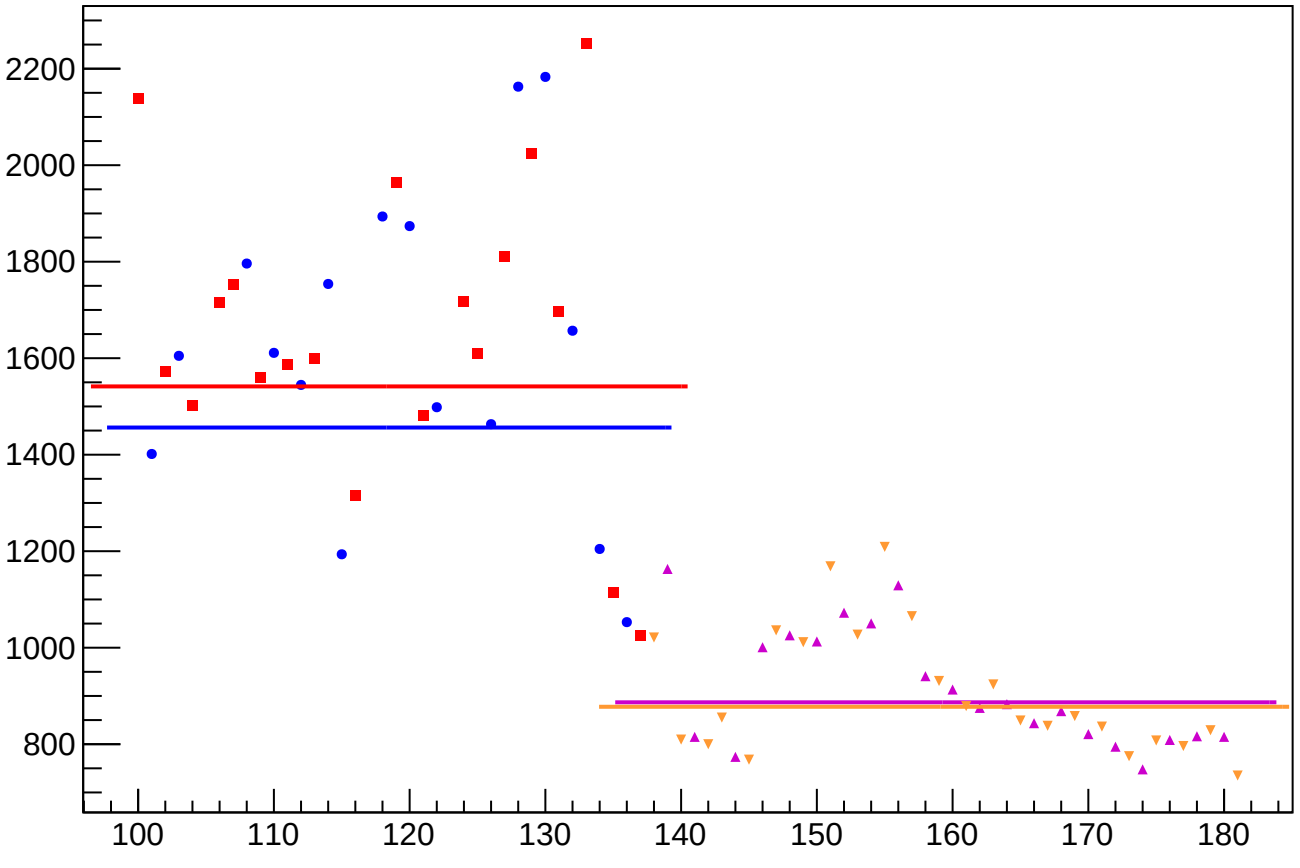
Left: -362.796+/-149.428 $\chi^2$/NDF: 95.9/43

Right: -56.604+/-400.343 $\chi^2$/NDF: 40.0/34

In: -5.664+/-201.097 $\chi^2$/NDF:51.7/36

Out: -625.973+/-195.006 $\chi^2$/NDF:79.8/41

All: -325.355+/-139.994 $\chi^2$/NDF: 136.4/78




Right In: 1456.303+/-0.394 $\chi^2$/NDF: 684806.5/15

Left Out: 877.567+/-0.147 $\chi^2$/NDF:609460.7/22

Right Out: 1541.522+/-0.407 $\chi^2$/NDF: 519336.6/18

Left In: 886.807+/-0.152 $\chi^2$/NDF:538303.4/20

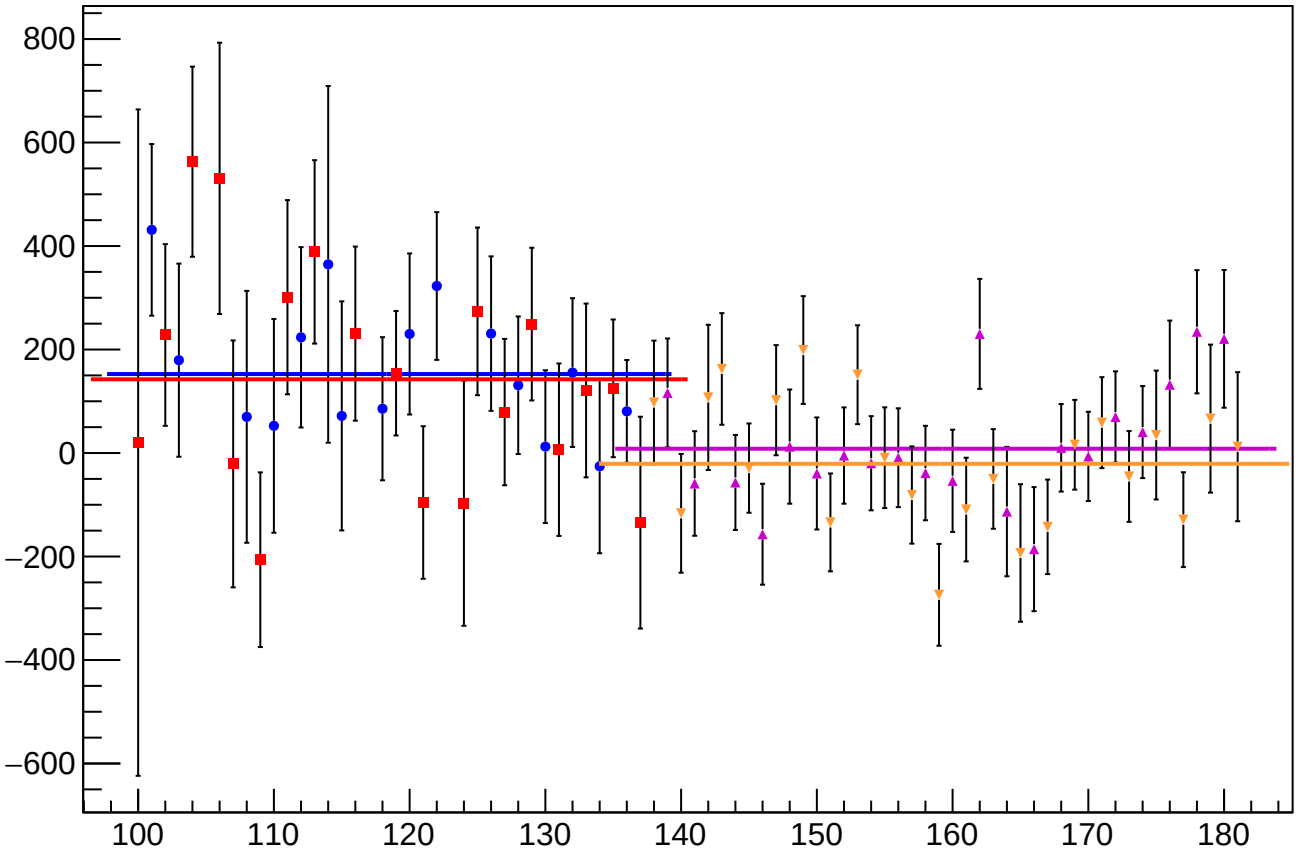
Left: 882.005+/-0.106 $\chi^2$/NDF: 1149672.9/43

Right: 1497.600+/-0.283 $\chi^2$/NDF: 1226777.5/34

In: 960.867+/-0.142 $\chi^2$/NDF:3037760.3/36

Out: 953.906+/-0.138 $\chi^2$/NDF:3488056.8/41

All: 957.280+/-0.099 $\chi^2$/NDF: 6527052.1/78




Right In: 152.628+/-39.446 $\chi^2$/NDF: 8.6/15

Left Out: -20.823+/-21.330 $\chi^2$/NDF:30.3/22

Right Out: 142.494+/-39.340 $\chi^2$/NDF: 22.9/18

Left In: 8.342+/-21.864 $\chi^2$/NDF:21.6/20

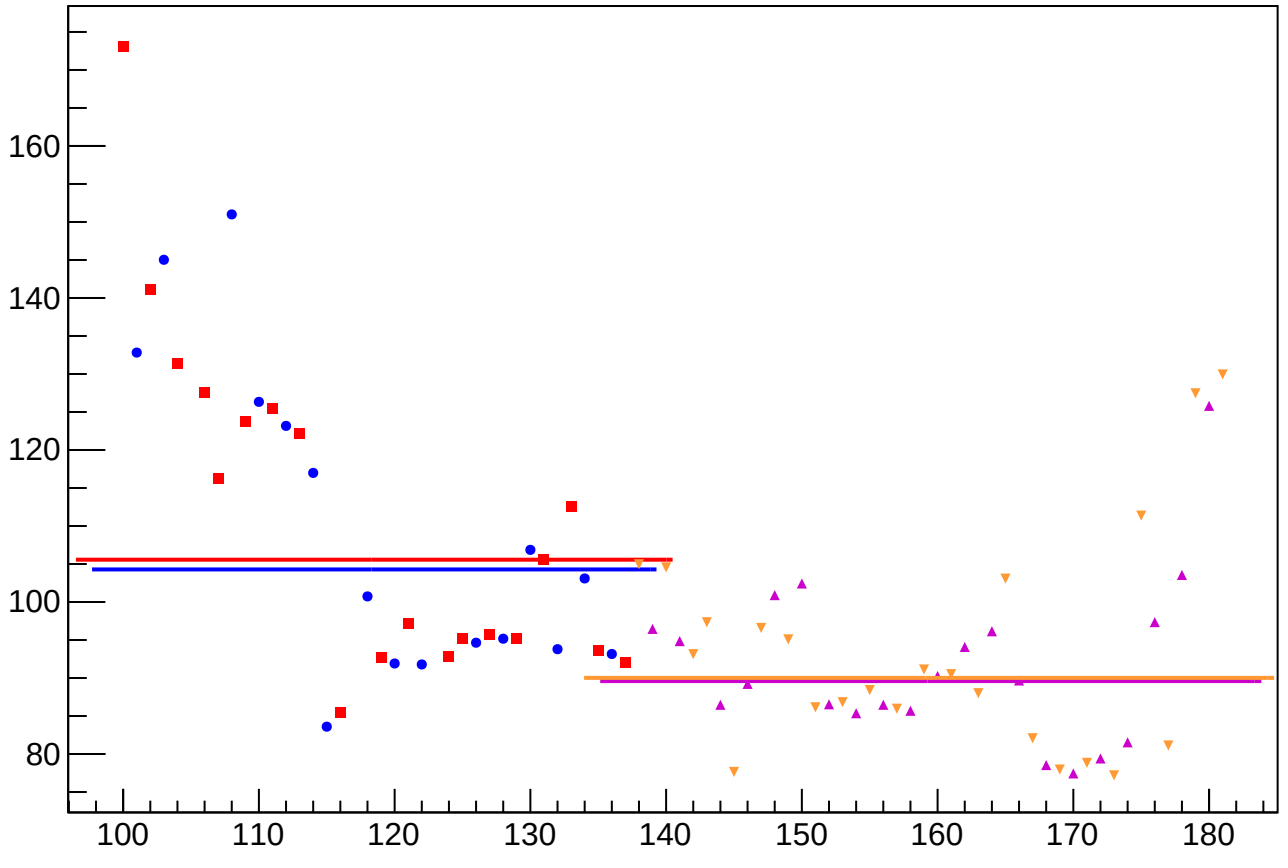
Left: -6.601+/-15.268 $\chi^2$/NDF: 52.8/43

Right: 147.548+/-27.855 $\chi^2$/NDF: 31.6/34

In: 42.253+/-19.123 $\chi^2$/NDF:40.5/36

Out: 16.280+/-18.751 $\chi^2$/NDF:66.6/41

All: 29.011+/-13.389 $\chi^2$/NDF: 108.0/78




Right In: 104.285+/-0.028 $\chi^2$/NDF: 378313.2/15

Left Out: 90.017+/-0.015 $\chi^2$/NDF:654675.5/22

Right Out: 105.567+/-0.028 $\chi^2$/NDF: 344605.1/18

Left In: 89.594+/-0.015 $\chi^2$/NDF:387145.1/20

Left: 89.811+/-0.011 $\chi^2$/NDF: 1042203.3/43

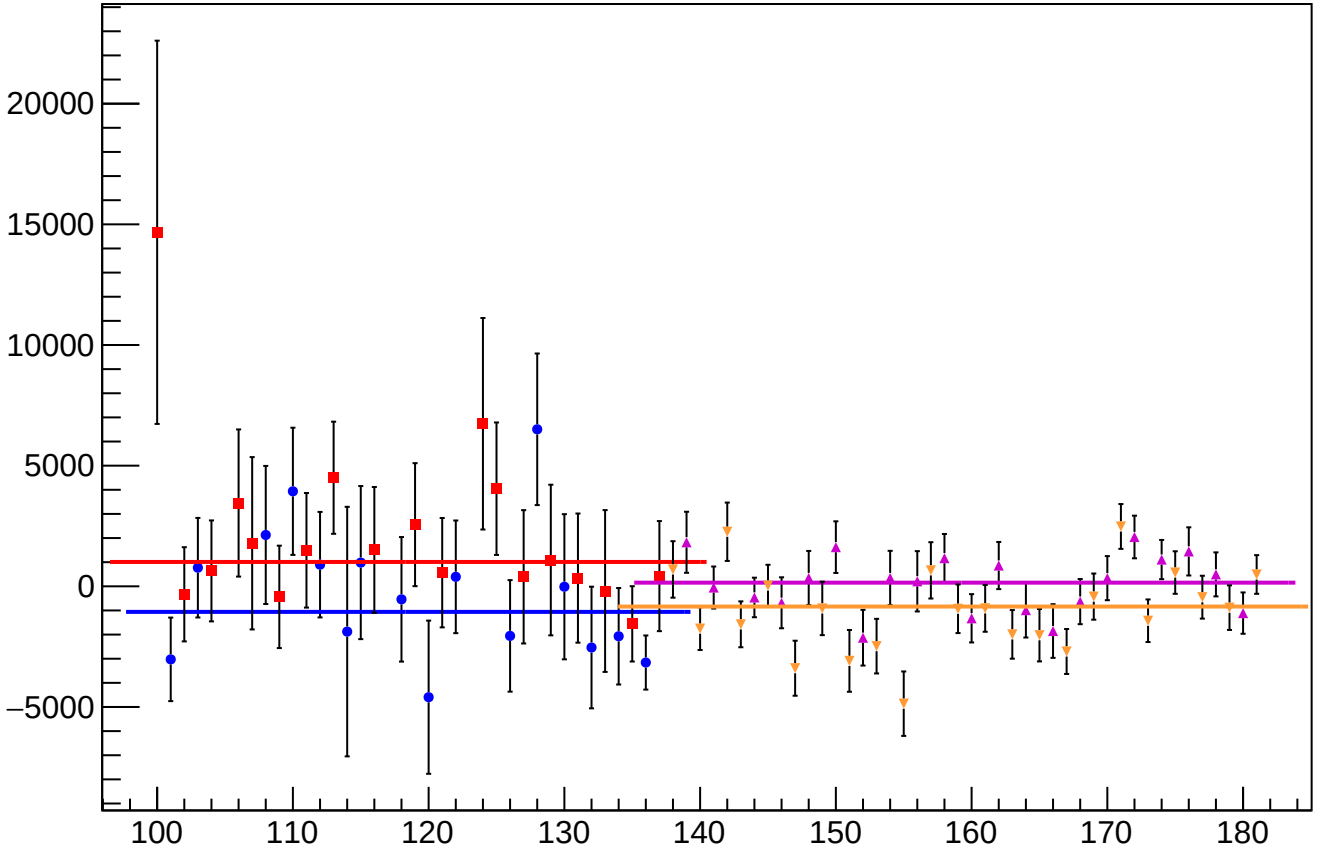
Right: 104.928+/-0.020 $\chi^2$/NDF: 723977.9/34

In: 93.047+/-0.014 $\chi^2$/NDF:977673.7/36

Out: 93.549+/-0.013 $\chi^2$/NDF:1240793.6/41

All: 93.303+/-0.009 $\chi^2$/NDF: 2219171.7/78

asym_sam_24_68_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1059.353+/-557.644 $\chi^2$/NDF: 20.0/15

Left Out: -838.496+/-207.286 $\chi^2$/NDF:57.4/22

Right Out: 1009.907+/-575.099 $\chi^2$/NDF: 13.3/18

Left In: 151.847+/-215.604 $\chi^2$/NDF:27.5/20

Left: -362.796+/-149.427 $\chi^2$/NDF: 95.9/43

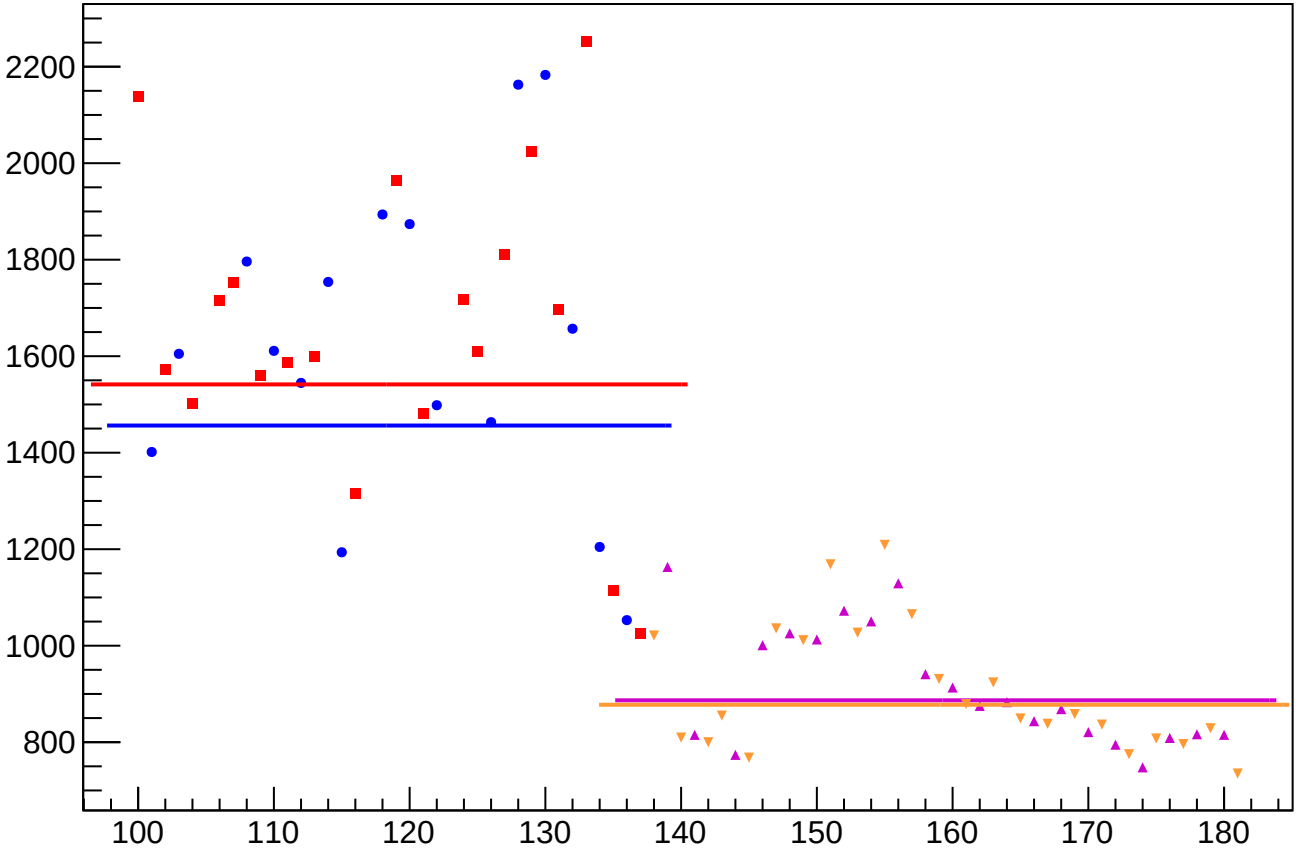
Right: -56.602+/-400.342 $\chi^2$/NDF: 40.0/34

In: -5.664+/-201.097 $\chi^2$/NDF:51.7/36

Out: -625.972+/-195.006 $\chi^2$/NDF:79.8/41

All: -325.354+/-139.994 $\chi^2$/NDF: 136.4/78

asym_sam_24_68_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1456.301+/-0.394 $\chi^2$/NDF: 684803.6/15

Left Out: 877.566+/-0.147 $\chi^2$/NDF:609462.6/22

Right Out: 1541.520+/-0.407 $\chi^2$/NDF: 519336.6/18

Left In: 886.806+/-0.152 $\chi^2$/NDF:538303.9/20

Left: 882.005+/-0.106 $\chi^2$/NDF: 1149675.2/43

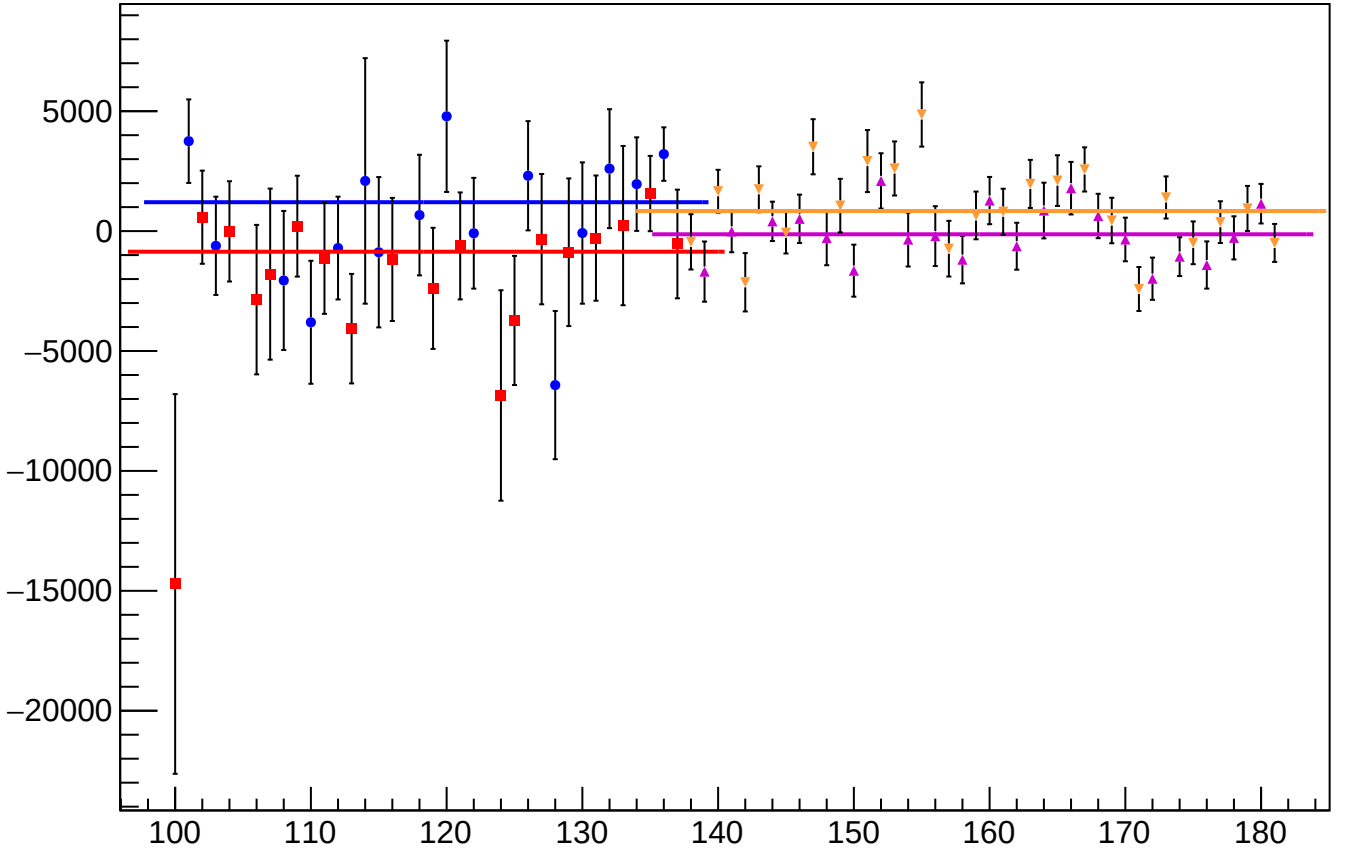
Right: 1497.597+/-0.283 $\chi^2$/NDF: 1226774.5/34

In: 960.866+/-0.142 $\chi^2$/NDF:3037753.4/36

Out: 953.906+/-0.138 $\chi^2$/NDF:3488051.4/41

All: 957.279+/-0.099 $\chi^2$/NDF: 6527039.8/78

# asym_sam_24_68_dd_mean vs Slug, Sign Corrected




Right In: 1204.691+/-551.729 $\chi^2$/NDF: 21.1/15

Left Out: 836.868+/-206.625 $\chi^2$/NDF:56.2/22

Right Out: -859.290+/-570.391 $\chi^2$/NDF: 12.5/18

Left In: -132.589+/-213.954 $\chi^2$/NDF:26.0/20

Left: 369.029+/-148.629 $\chi^2$/NDF: 92.8/43

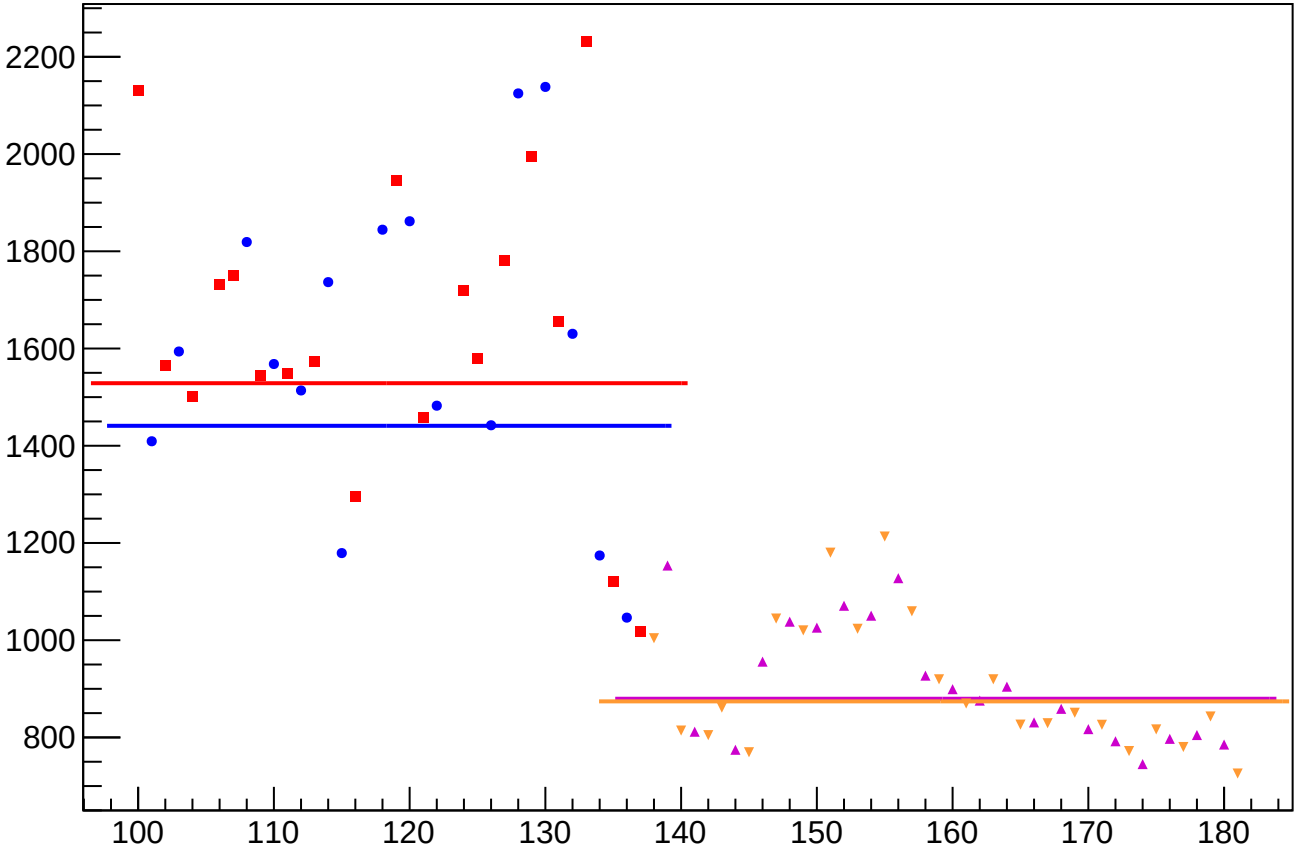
Right: 207.019+/-396.565 $\chi^2$/NDF: 40.4/34

In: 42.223+/-199.480 $\chi^2$/NDF:52.2/36

Out: 640.108+/-194.271 $\chi^2$/NDF:76.5/41

All: 349.074+/-139.175 $\chi^2$/NDF: 133.4/78

# asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 1441.025+/-0.390 $\chi^2$/NDF: 670674.6/15

Left Out: 874.176+/-0.146 $\chi^2$/NDF:629779.4/22

Right Out: 1528.652+/-0.403 $\chi^2$/NDF: 501717.6/18

Left In: 879.578+/-0.151 $\chi^2$/NDF:556868.2/20

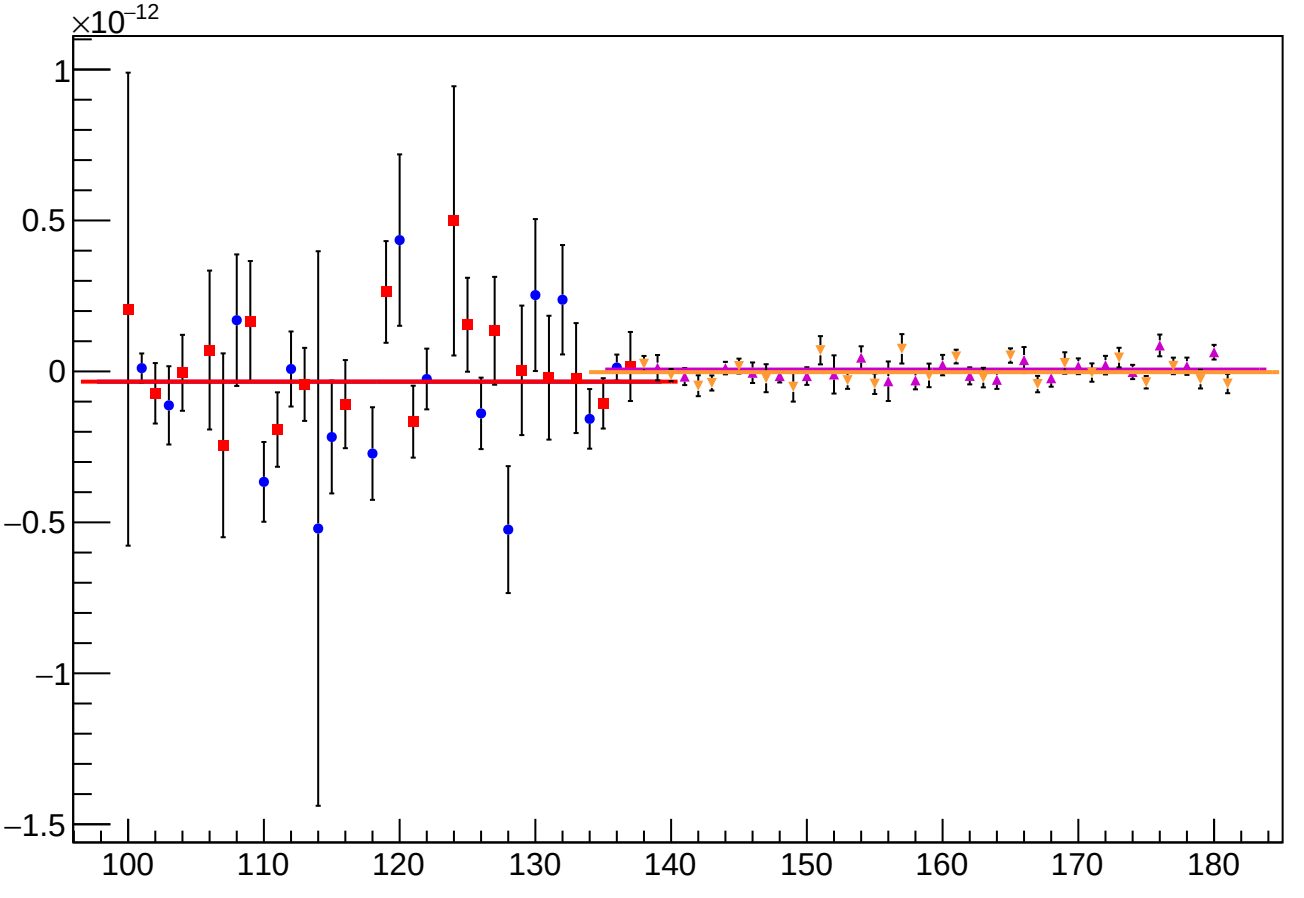
Left: 876.783+/-0.105 $\chi^2$/NDF: 1187307.2/43

Right: 1483.381+/-0.280 $\chi^2$/NDF: 1196778.1/34

In: 952.971+/-0.141 $\chi^2$/NDF:3027886.4/36

Out: 950.097+/-0.137 $\chi^2$/NDF:3459171.2/41

All: 951.496+/-0.098 $\chi^2$/NDF: 6487270.7/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 27.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:35.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.1/20

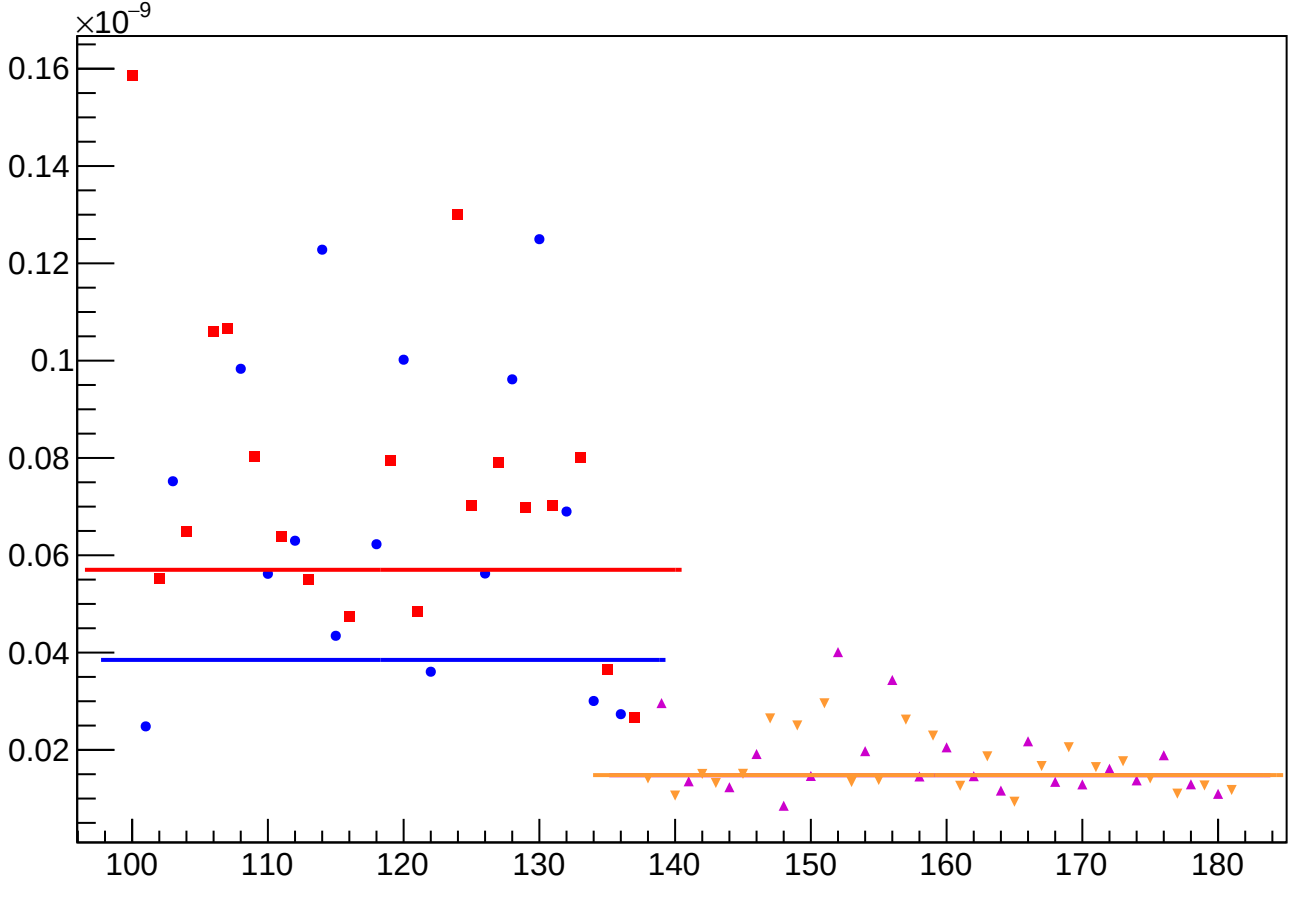
Left: 0.000+/-0.000 $\chi^2$/NDF: 56.0/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:49.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:48.8/41

All: -0.000+/-0.000 $\chi^2$/NDF: 99.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1382311.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1014158.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 660994.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1256807.3/20

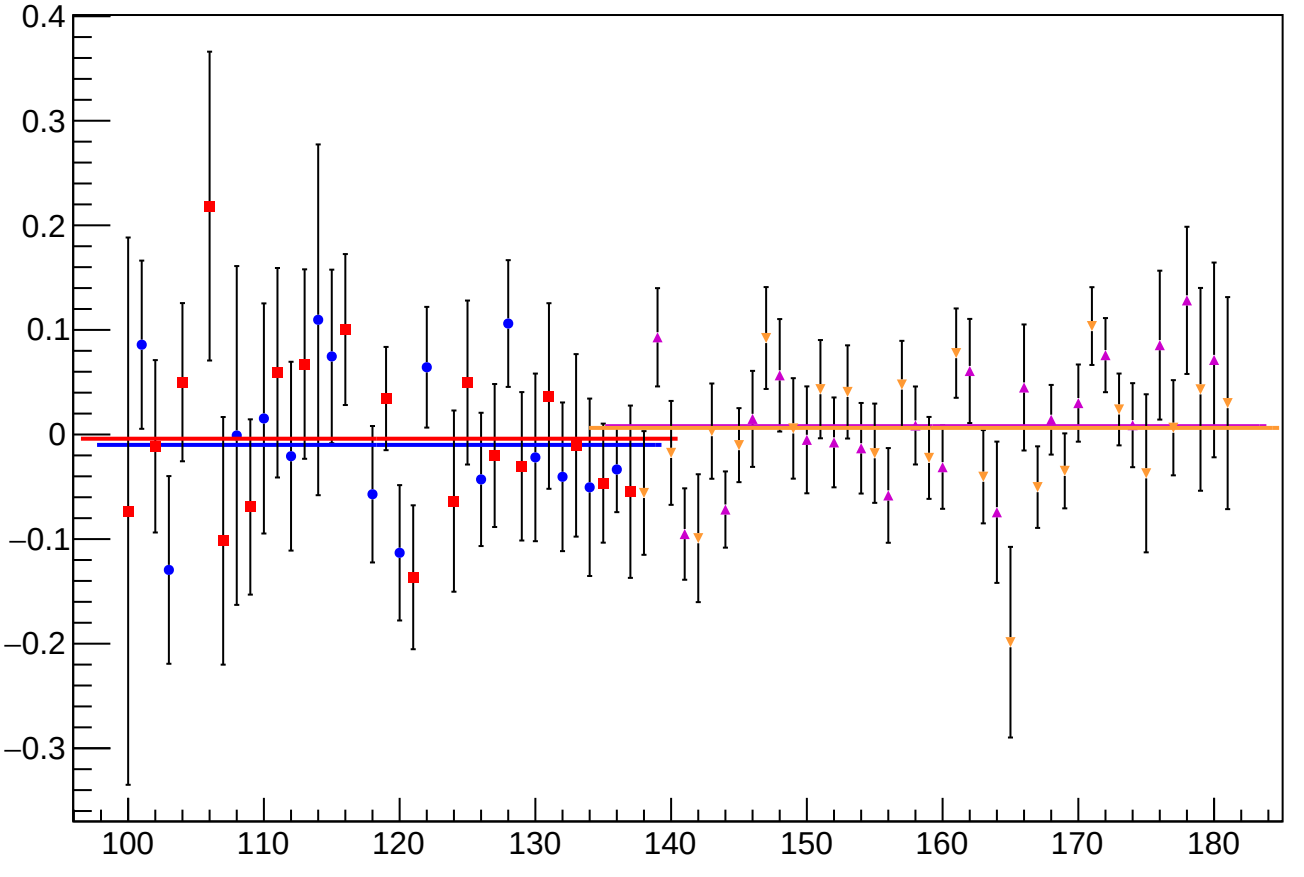
Left: 0.000+/-0.000 $\chi^2$/NDF: 2270995.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 2430892.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:4317728.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4694610.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9012822.2/78




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: 0.006+/-0.010 $\chi^2$/NDF:30.7/22

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: 0.008+/-0.010 $\chi^2$/NDF:29.6/20

Left: 0.007+/-0.007 $\chi^2$/NDF: 60.3/43

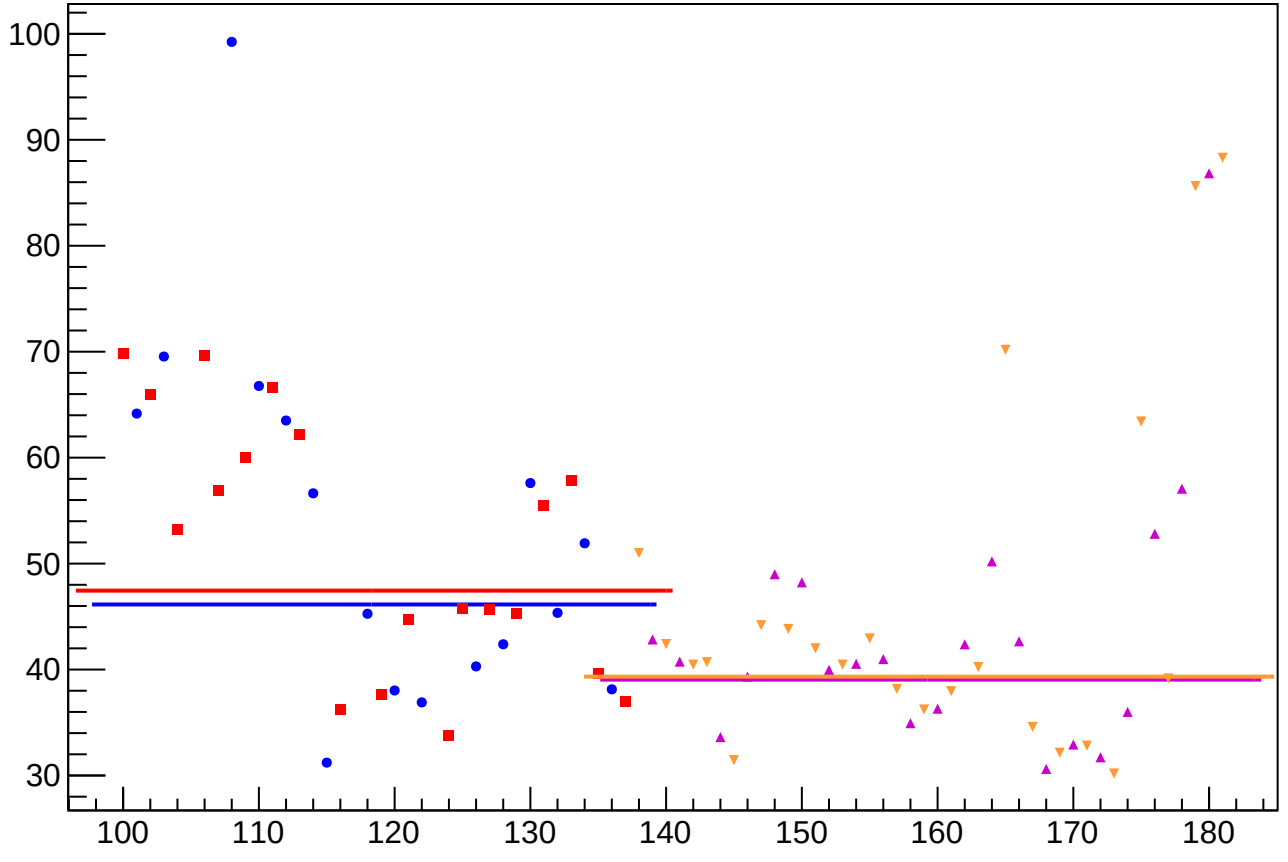
Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: 0.004+/-0.009 $\chi^2$/NDF:44.6/36

Out: 0.004+/-0.009 $\chi^2$/NDF:44.8/41

All: 0.004+/-0.006 $\chi^2$/NDF: 89.4/78

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 46.141+/-0.013 $\chi^2$/NDF: 903280.2/15

Left Out: 39.331+/-0.007 $\chi^2$/NDF:1929022.8/22

Right Out: 47.450+/-0.013 $\chi^2$/NDF: 654693.6/18

Left In: 39.049+/-0.007 $\chi^2$/NDF:1318240.8/20

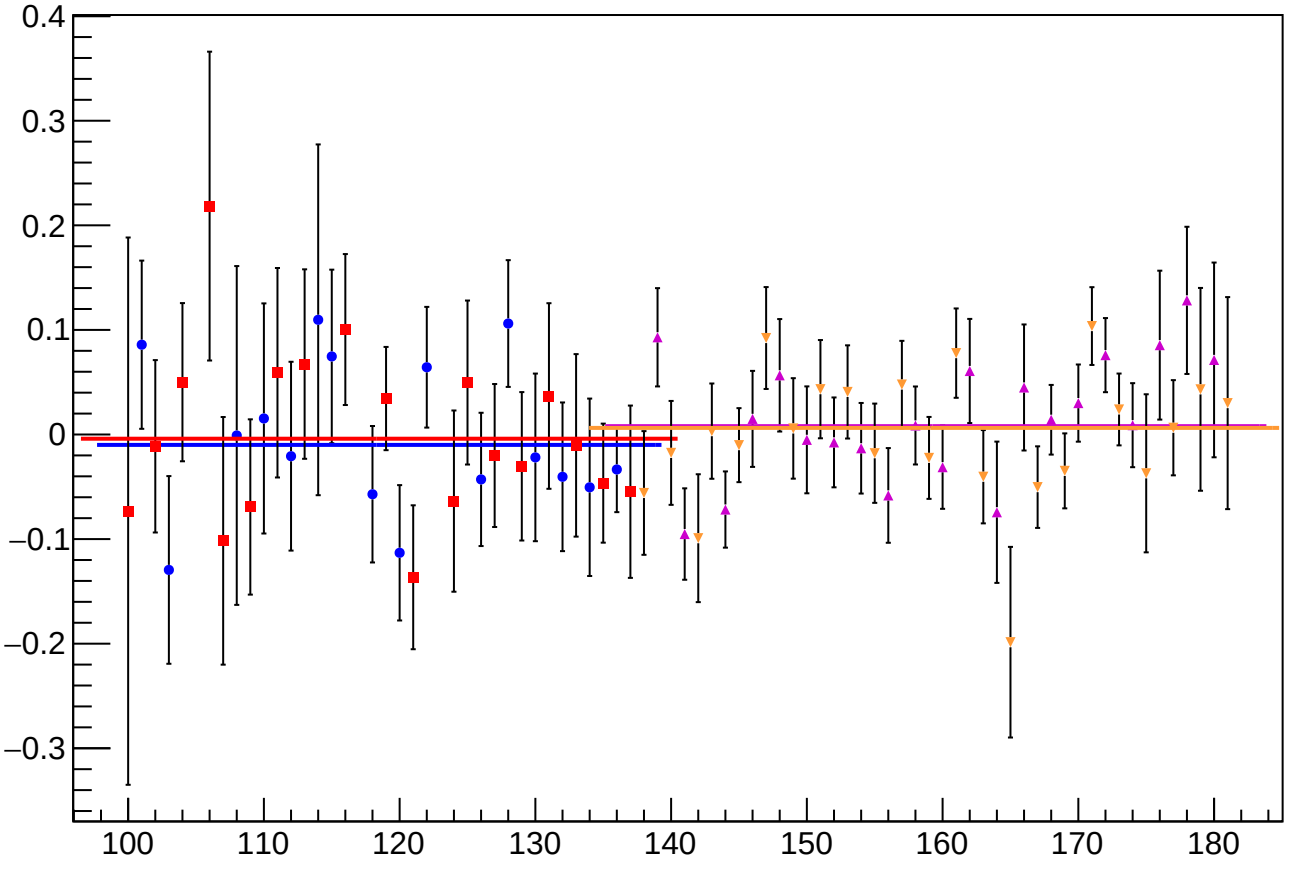
Left: 39.193+/-0.005 $\chi^2$/NDF: 3248097.9/43

Right: 46.792+/-0.009 $\chi^2$/NDF: 1563231.6/34

In: 40.684+/-0.006 $\chi^2$/NDF:2460613.2/36

Out: 41.126+/-0.006 $\chi^2$/NDF:2897390.5/41

All: 40.909+/-0.004 $\chi^2$/NDF: 5360658.6/78




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: 0.006+/-0.010 $\chi^2$/NDF:30.7/22

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: 0.008+/-0.010 $\chi^2$/NDF:29.6/20

Left: 0.007+/-0.007 $\chi^2$/NDF: 60.3/43

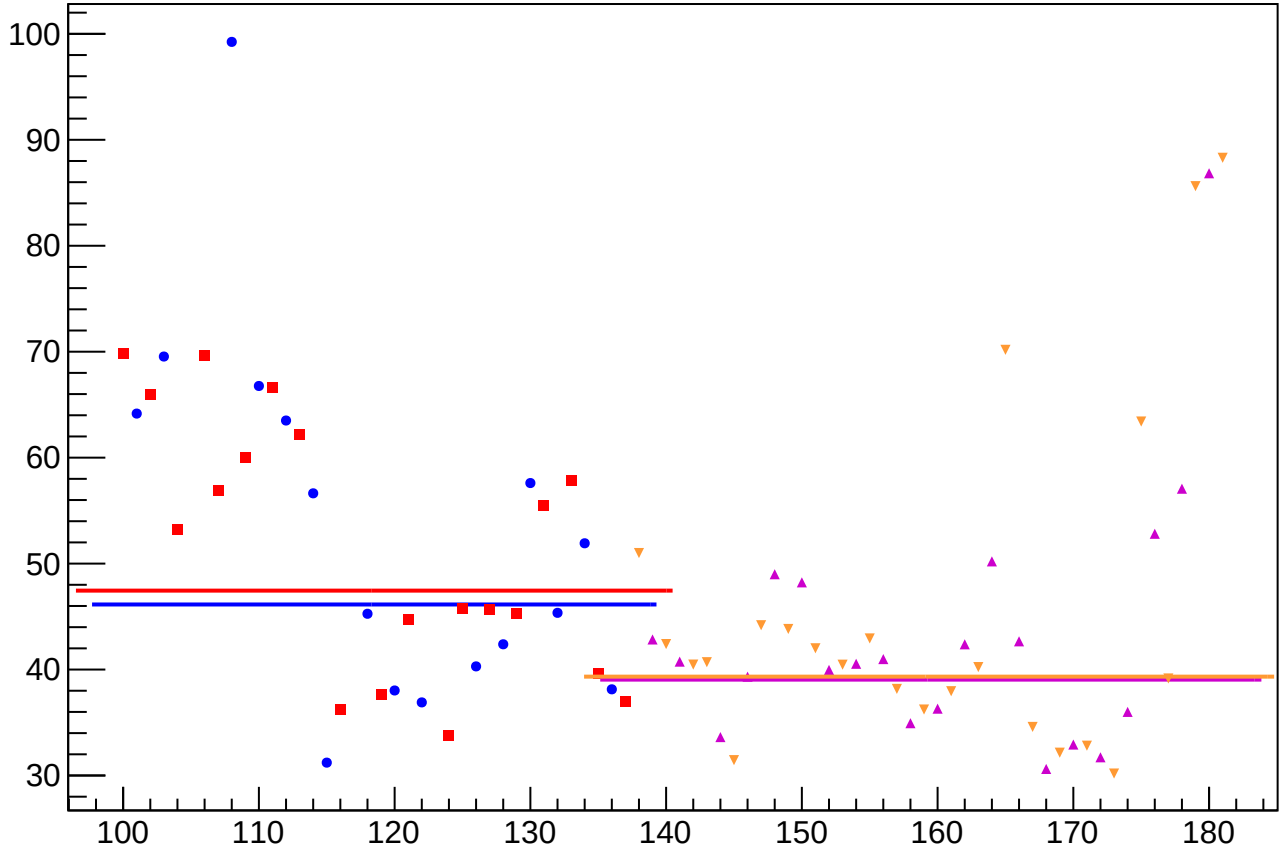
Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: 0.004+/-0.009 $\chi^2$/NDF:44.6/36

Out: 0.004+/-0.009 $\chi^2$/NDF:44.8/41

All: 0.004+/-0.006 $\chi^2$/NDF: 89.4/78

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 46.141+/-0.013 $\chi^2$/NDF: 903280.2/15

Left Out: 39.331+/-0.007 $\chi^2$/NDF:1929022.8/22

Right Out: 47.450+/-0.013 $\chi^2$/NDF: 654693.6/18

Left In: 39.049+/-0.007 $\chi^2$/NDF:1318240.8/20

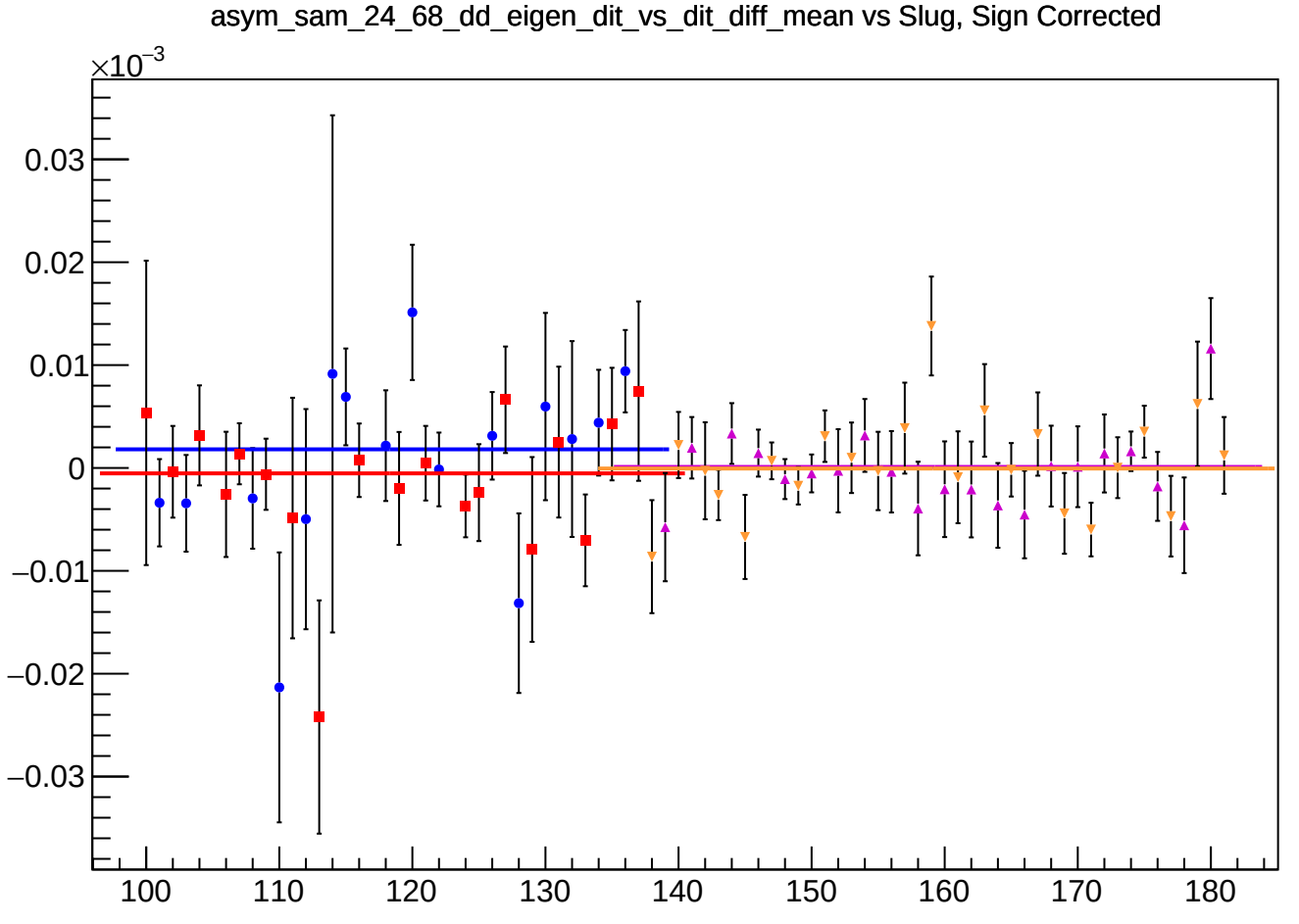
Left: 39.193+/-0.005 $\chi^2$/NDF: 3248097.9/43

Right: 46.792+/-0.009 $\chi^2$/NDF: 1563231.6/34

In: 40.684+/-0.006 $\chi^2$/NDF:2460613.2/36

Out: 41.126+/-0.006 $\chi^2$/NDF:2897390.5/41

All: 40.909+/-0.004 $\chi^2$/NDF: 5360658.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:31.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.7/20

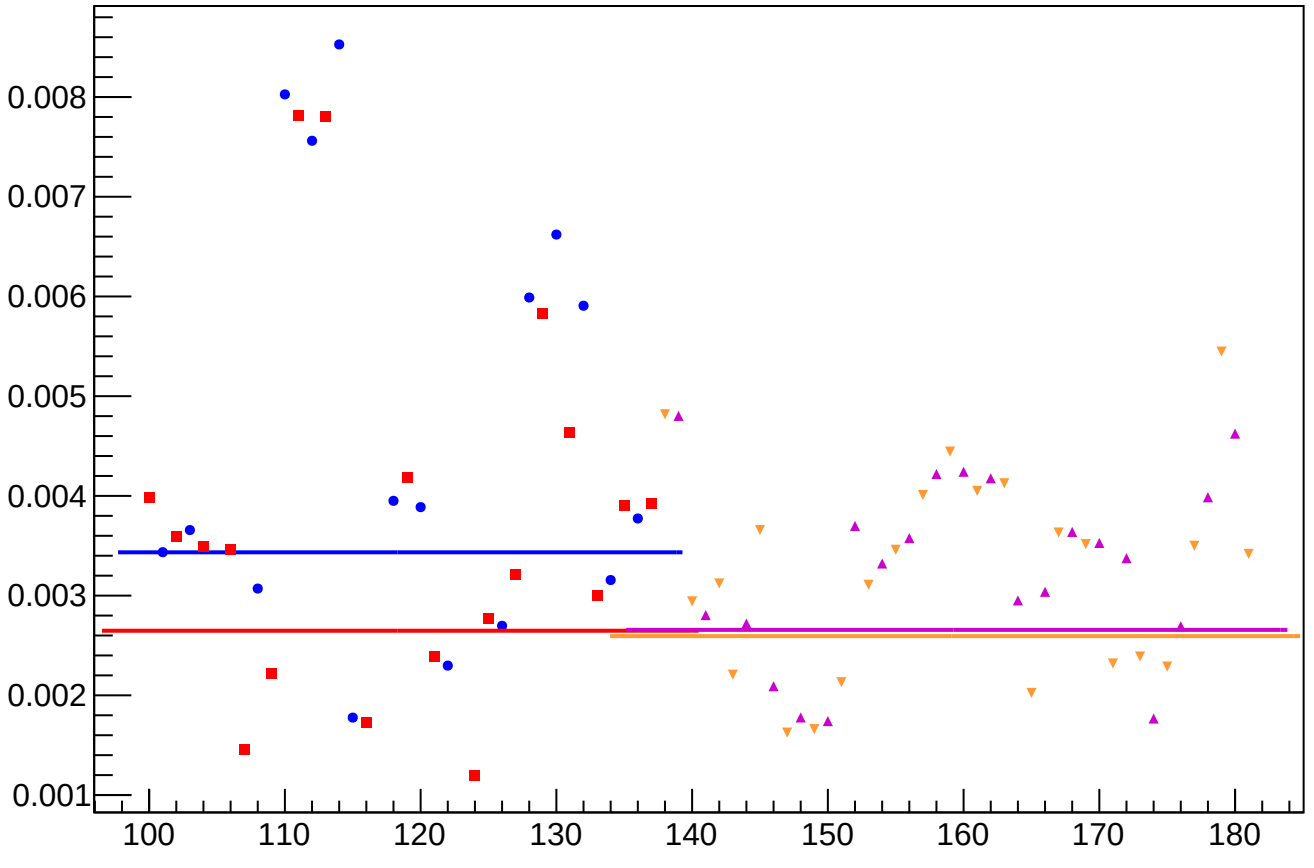
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 35.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:36.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:45.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 83.2/78




Right In: 0.003+/-0.000 $\chi^2$/NDF: 1748561.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3882946.4/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2696872.6/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:3591641.1/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 7483388.9/43

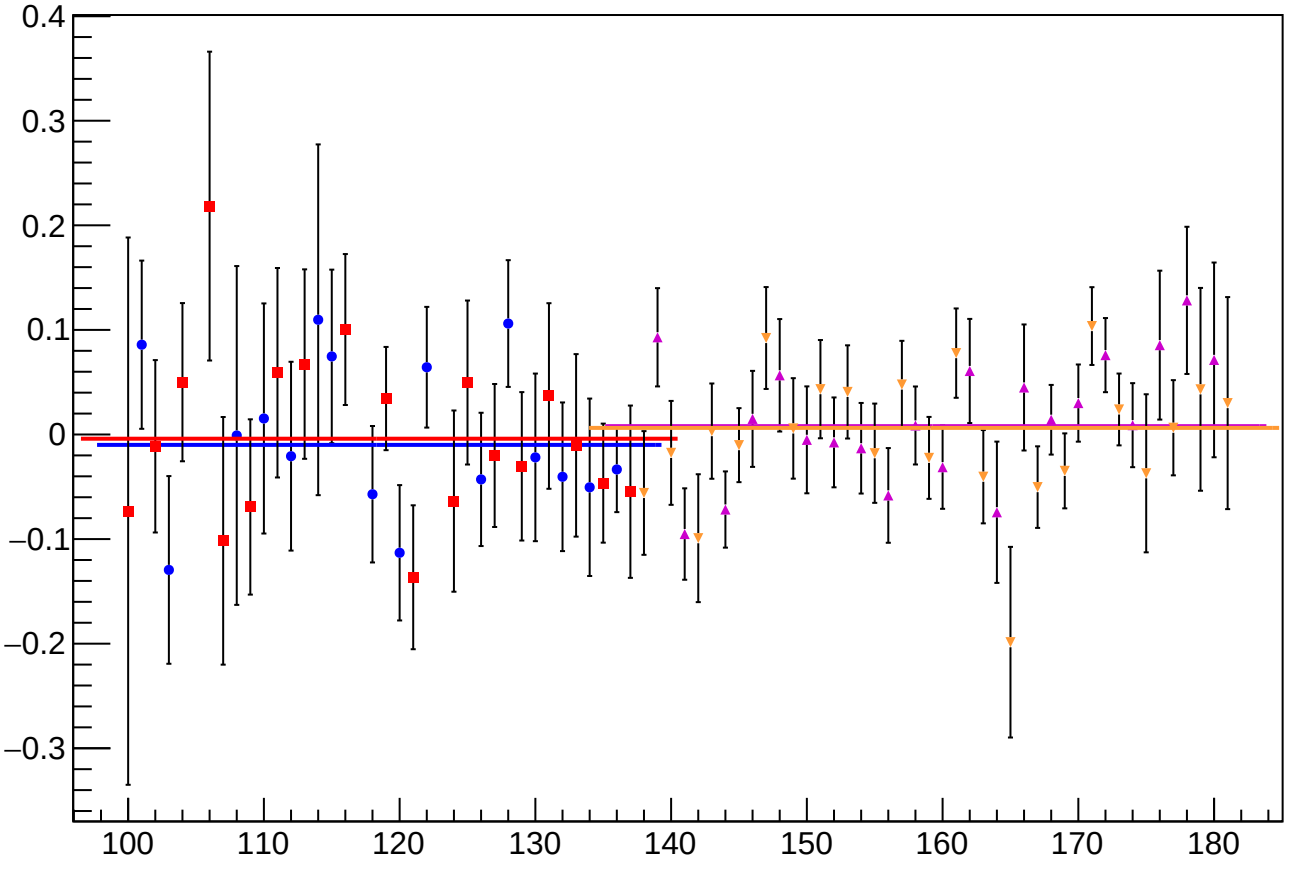
Right: 0.003+/-0.000 $\chi^2$/NDF: 4848064.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:5853991.7/36

Out: 0.003+/-0.000 $\chi^2$/NDF:6583465.8/41

All: 0.003+/-0.000 $\chi^2$/NDF: 12558873.2/78

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: 0.006+/-0.010 $\chi^2$/NDF:30.7/22

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: 0.008+/-0.010 $\chi^2$/NDF:29.6/20

Left: 0.007+/-0.007 $\chi^2$/NDF: 60.3/43

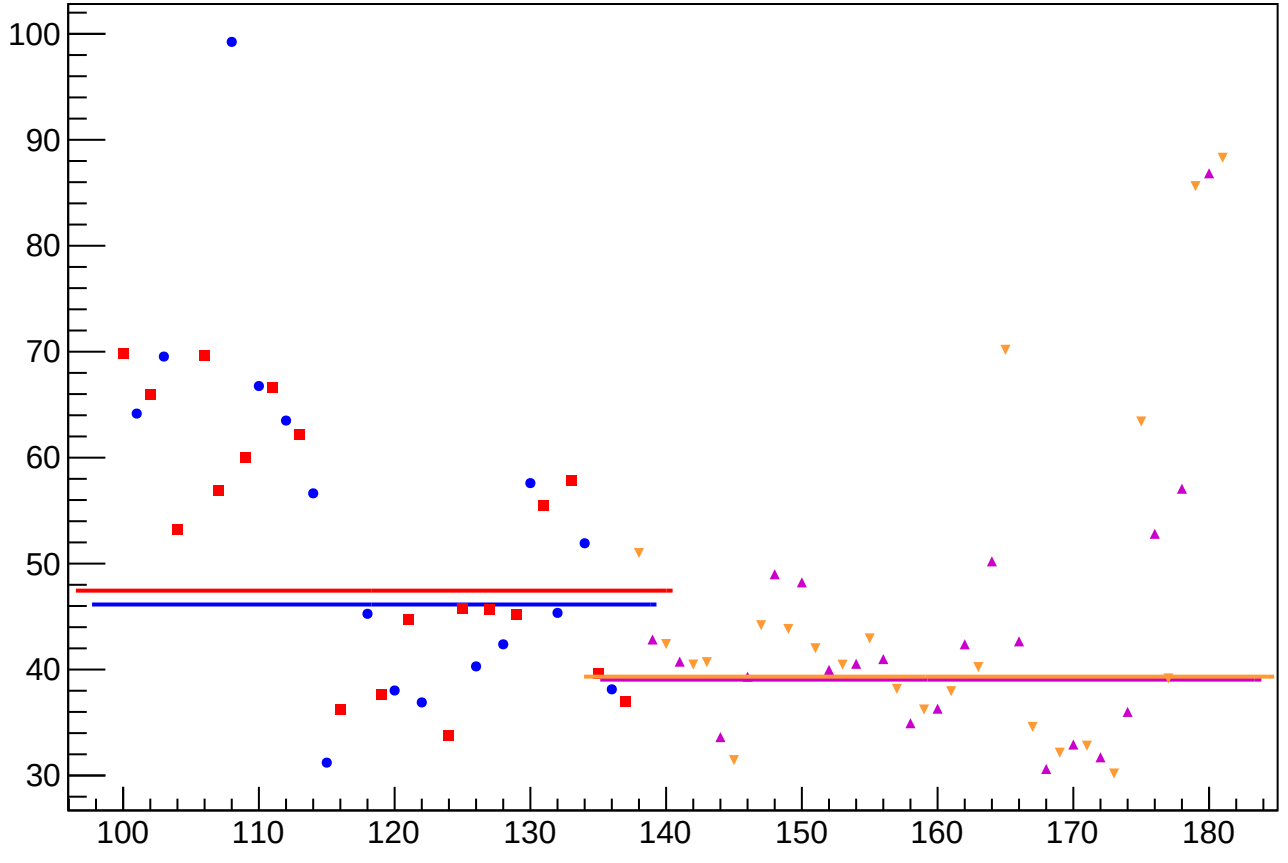
Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: 0.004+/-0.009 $\chi^2$/NDF:44.6/36

Out: 0.004+/-0.009 $\chi^2$/NDF:44.8/41

All: 0.004+/-0.006 $\chi^2$/NDF: 89.4/78

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 46.140+/-0.013 $\chi^2$/NDF: 903251.1/15

Left Out: 39.331+/-0.007 $\chi^2$/NDF:1929063.6/22

Right Out: 47.448+/-0.013 $\chi^2$/NDF: 654687.8/18

Left In: 39.049+/-0.007 $\chi^2$/NDF:1318267.3/20

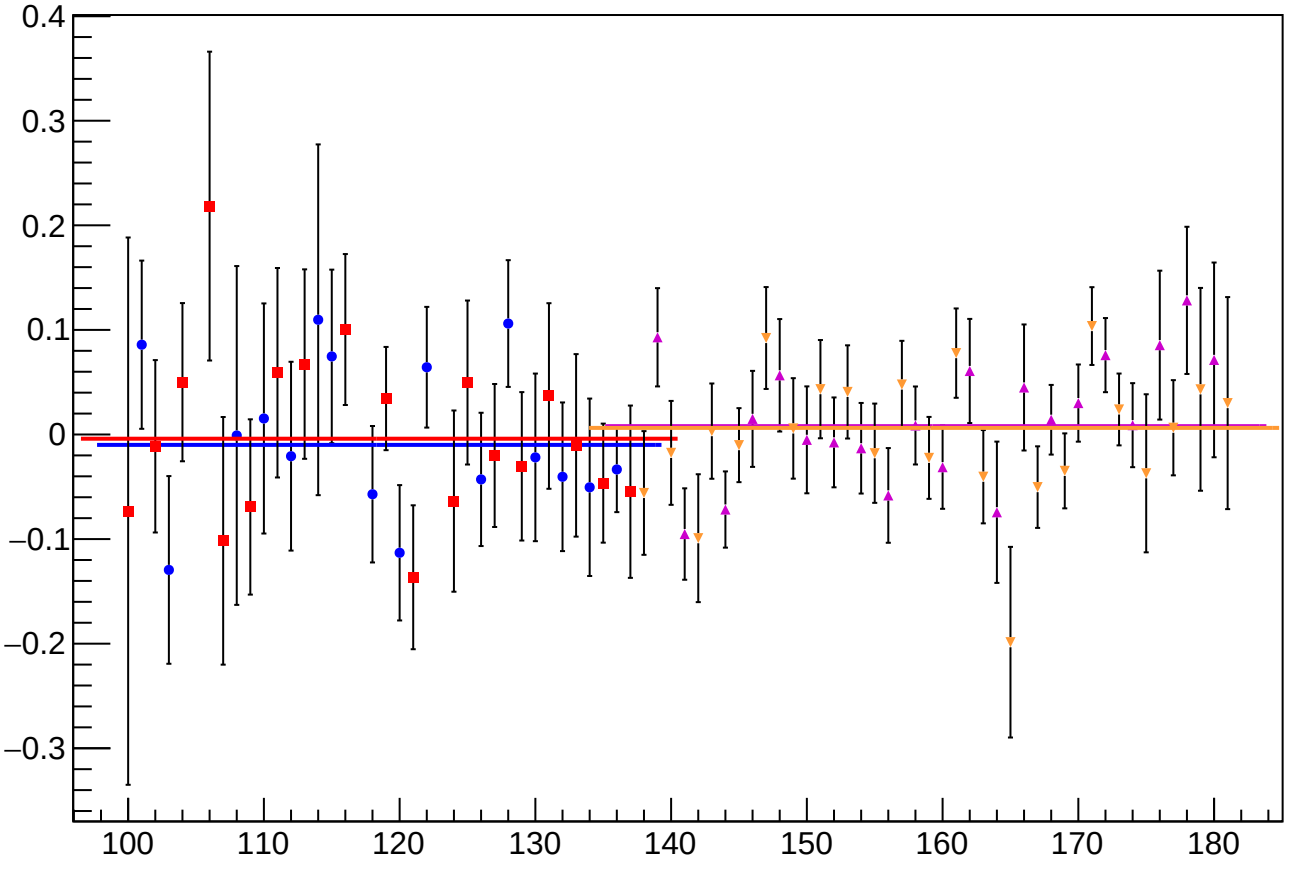
Left: 39.193+/-0.005 $\chi^2$/NDF: 3248166.8/43

Right: 46.790+/-0.009 $\chi^2$/NDF: 1563199.9/34

In: 40.684+/-0.006 $\chi^2$/NDF:2460530.2/36

Out: 41.126+/-0.006 $\chi^2$/NDF:2897337.5/41

All: 40.908+/-0.004 $\chi^2$/NDF: 5360526.3/78




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: 0.006+/-0.010 $\chi^2$/NDF:30.7/22

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: 0.008+/-0.010 $\chi^2$/NDF:29.6/20

Left: 0.007+/-0.007 $\chi^2$/NDF: 60.3/43

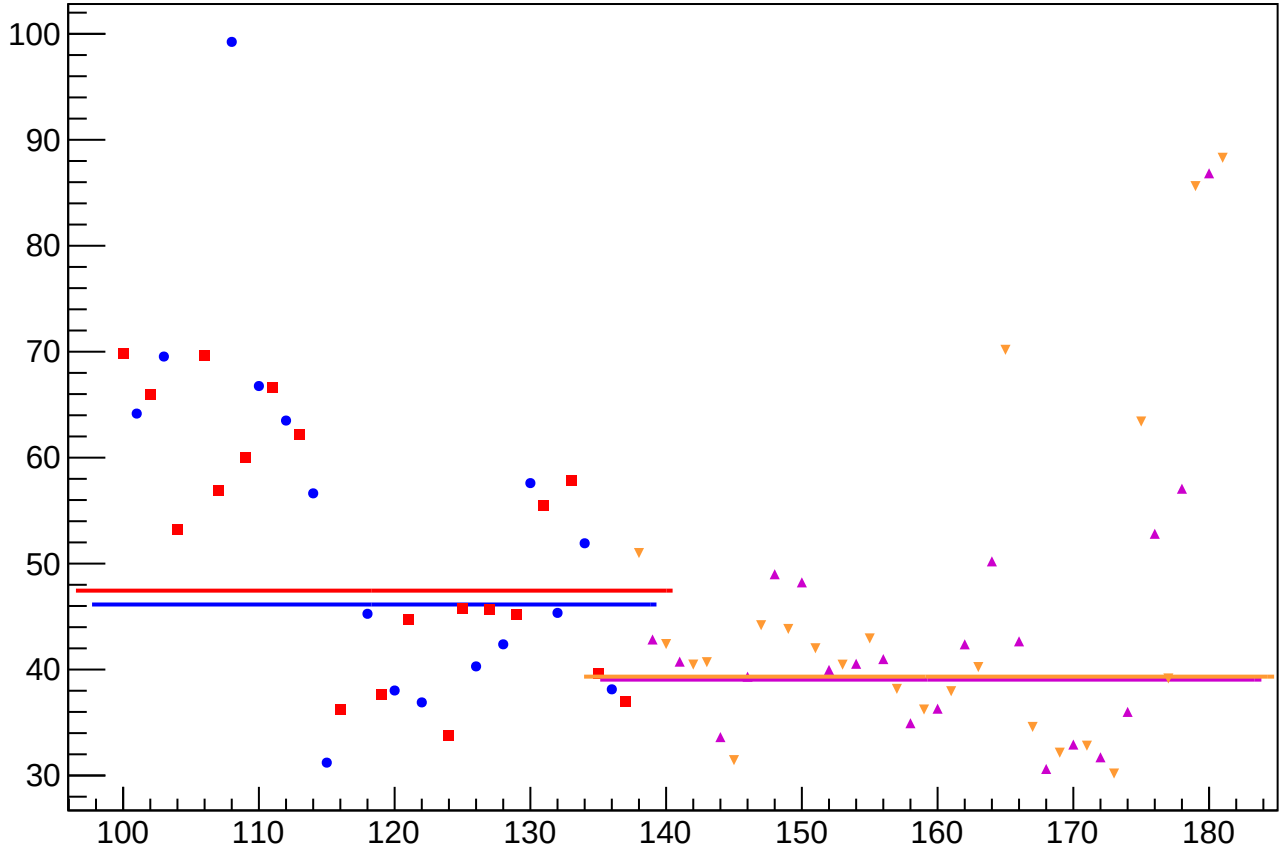
Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: 0.004+/-0.009 $\chi^2$/NDF:44.6/36

Out: 0.004+/-0.009 $\chi^2$/NDF:44.8/41

All: 0.004+/-0.006 $\chi^2$/NDF: 89.4/78

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 46.140+/-0.013 $\chi^2$/NDF: 903251.1/15

Left Out: 39.331+/-0.007 $\chi^2$/NDF:1929063.6/22

Right Out: 47.448+/-0.013 $\chi^2$/NDF: 654687.8/18

Left In: 39.049+/-0.007 $\chi^2$/NDF:1318267.3/20

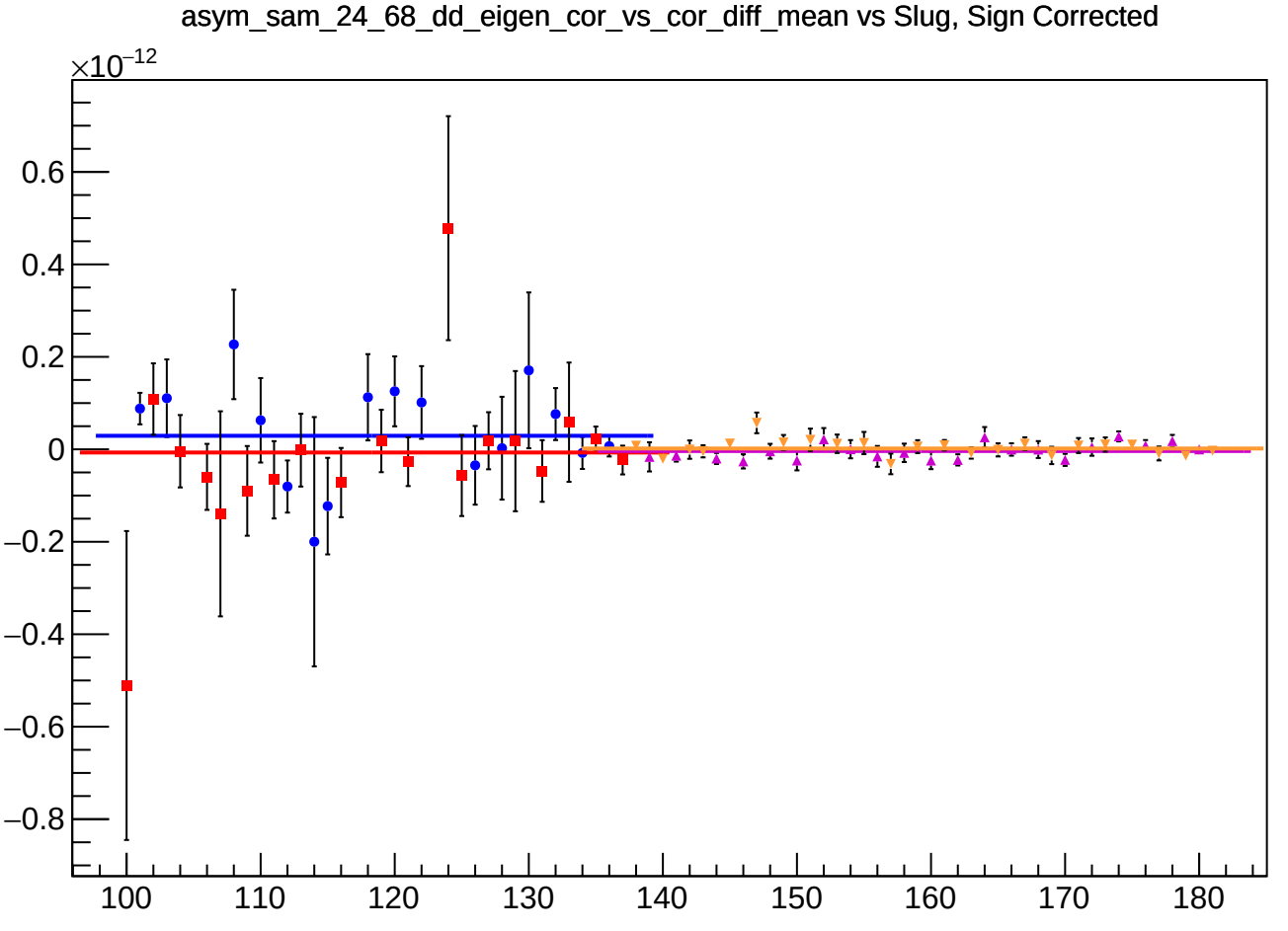
Left: 39.193+/-0.005 $\chi^2$/NDF: 3248166.8/43

Right: 46.790+/-0.009 $\chi^2$/NDF: 1563199.9/34

In: 40.684+/-0.006 $\chi^2$/NDF:2460530.2/36

Out: 41.126+/-0.006 $\chi^2$/NDF:2897337.5/41

All: 40.908+/-0.004 $\chi^2$/NDF: 5360526.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.1/20

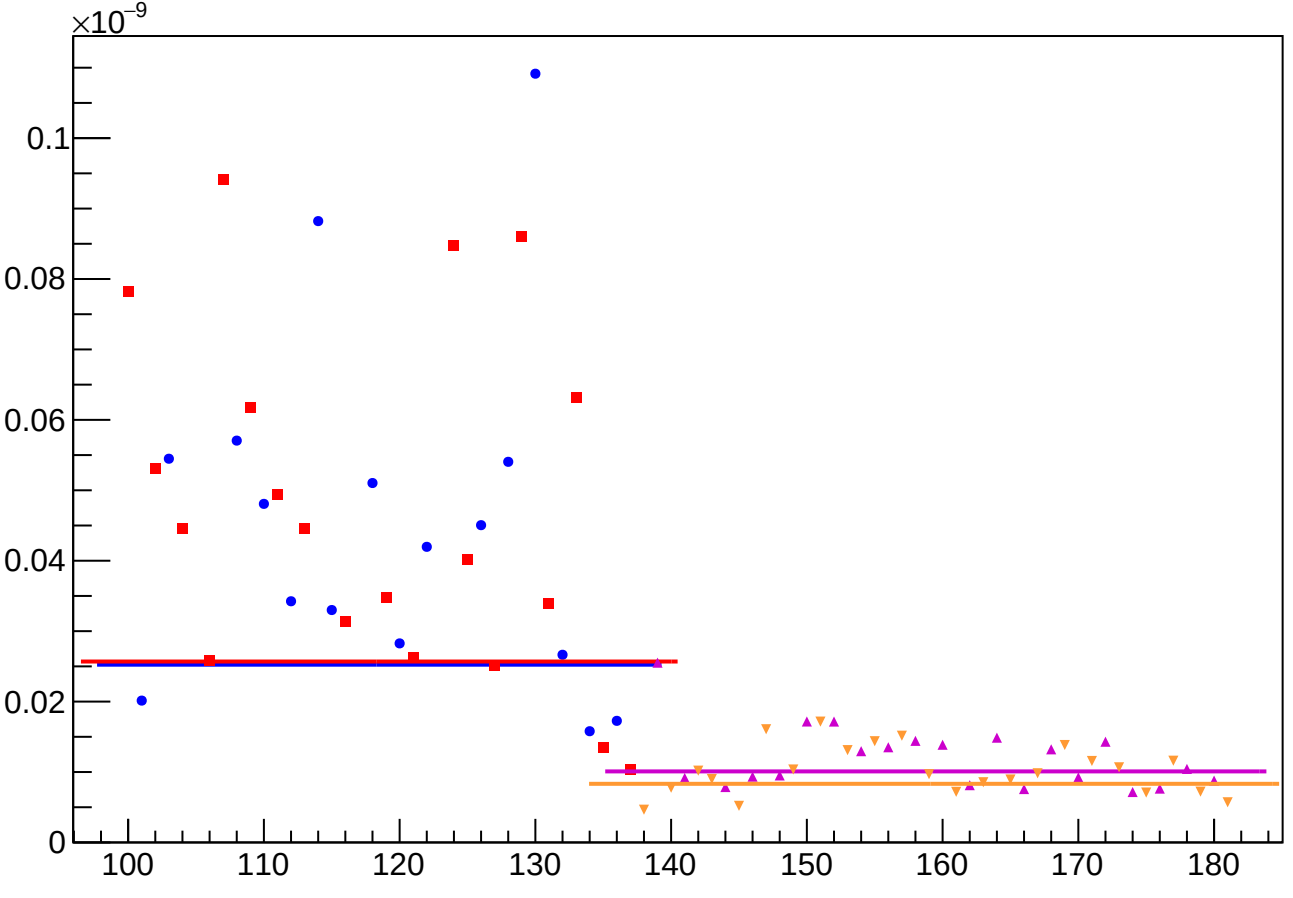
Left: -0.000+/-0.000 $\chi^2$/NDF: 51.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:53.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:37.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 91.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2117960.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2239604.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2790840.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1862085.6/20

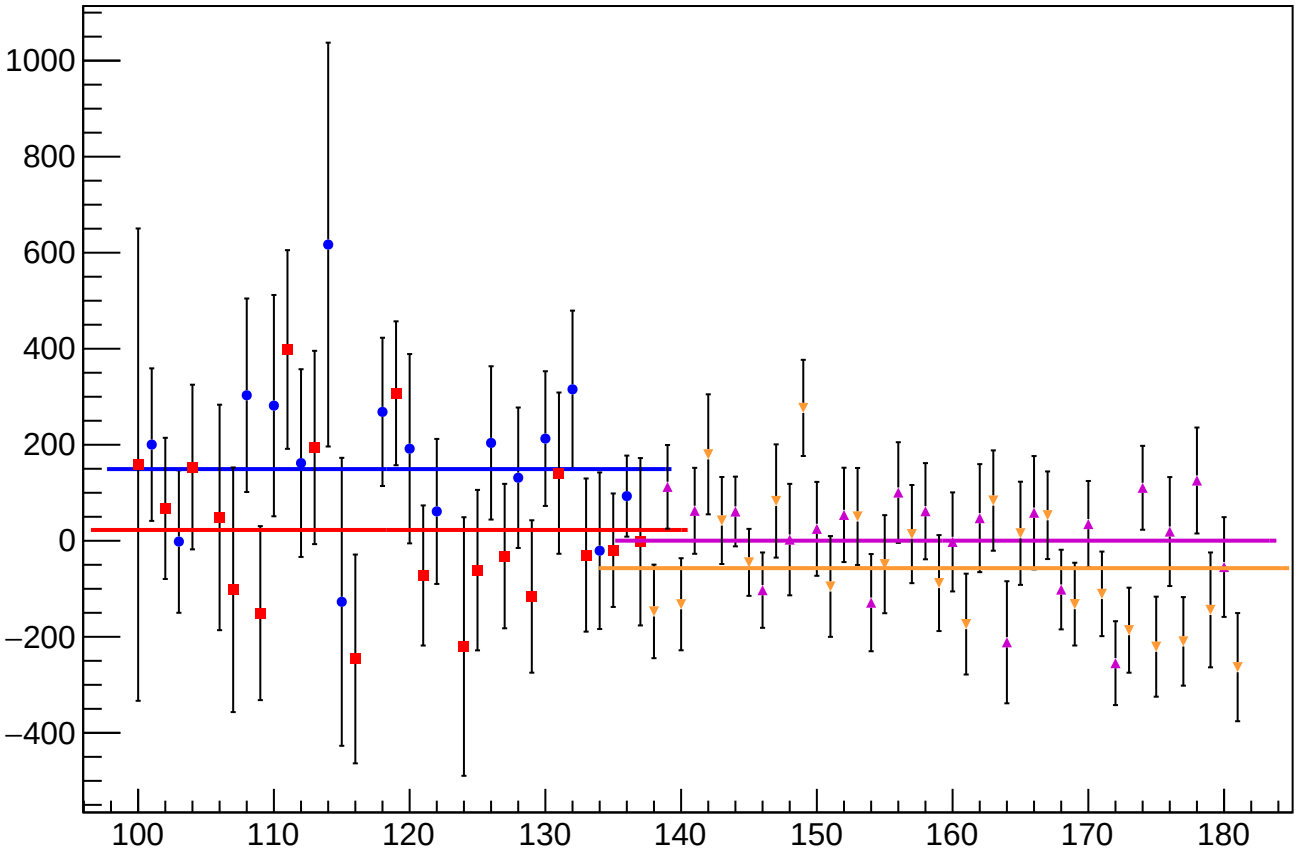
Left: 0.000+/-0.000 $\chi^2$/NDF: 4439931.8/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 4909837.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:6351725.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7859255.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 14671894.1/78




Right In: 149.303+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: -56.988+/-20.429 $\chi^2$/NDF:38.0/22

Right Out: 22.549+/-40.100 $\chi^2$/NDF: 14.2/18

Left In: 0.229+/-20.989 $\chi^2$/NDF:24.4/20

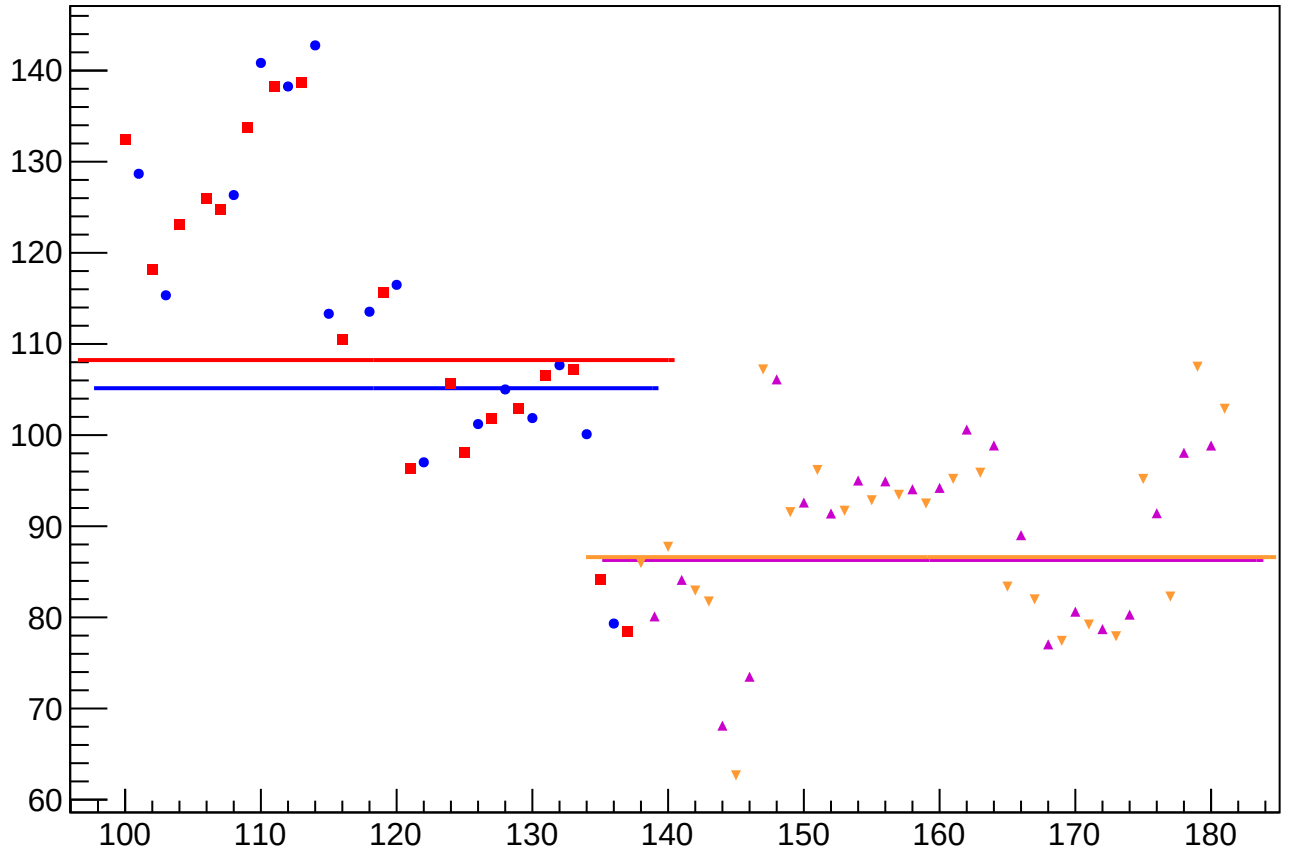
Left: -29.153+/-14.639 $\chi^2$/NDF: 66.2/43

Right: 86.583+/-28.208 $\chi^2$/NDF: 27.3/34

In: 32.810+/-18.554 $\chi^2$/NDF:43.4/36

Out: -40.599+/-18.203 $\chi^2$/NDF:55.3/41

All: -4.595+/-12.994 $\chi^2$/NDF: 106.7/78




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.3/15

Left Out: 86.612+/-0.014 $\chi^2$/NDF:567227.4/22

Right Out: 108.233+/-0.028 $\chi^2$/NDF: 349936.1/18

Left In: 86.300+/-0.015 $\chi^2$/NDF:480533.6/20

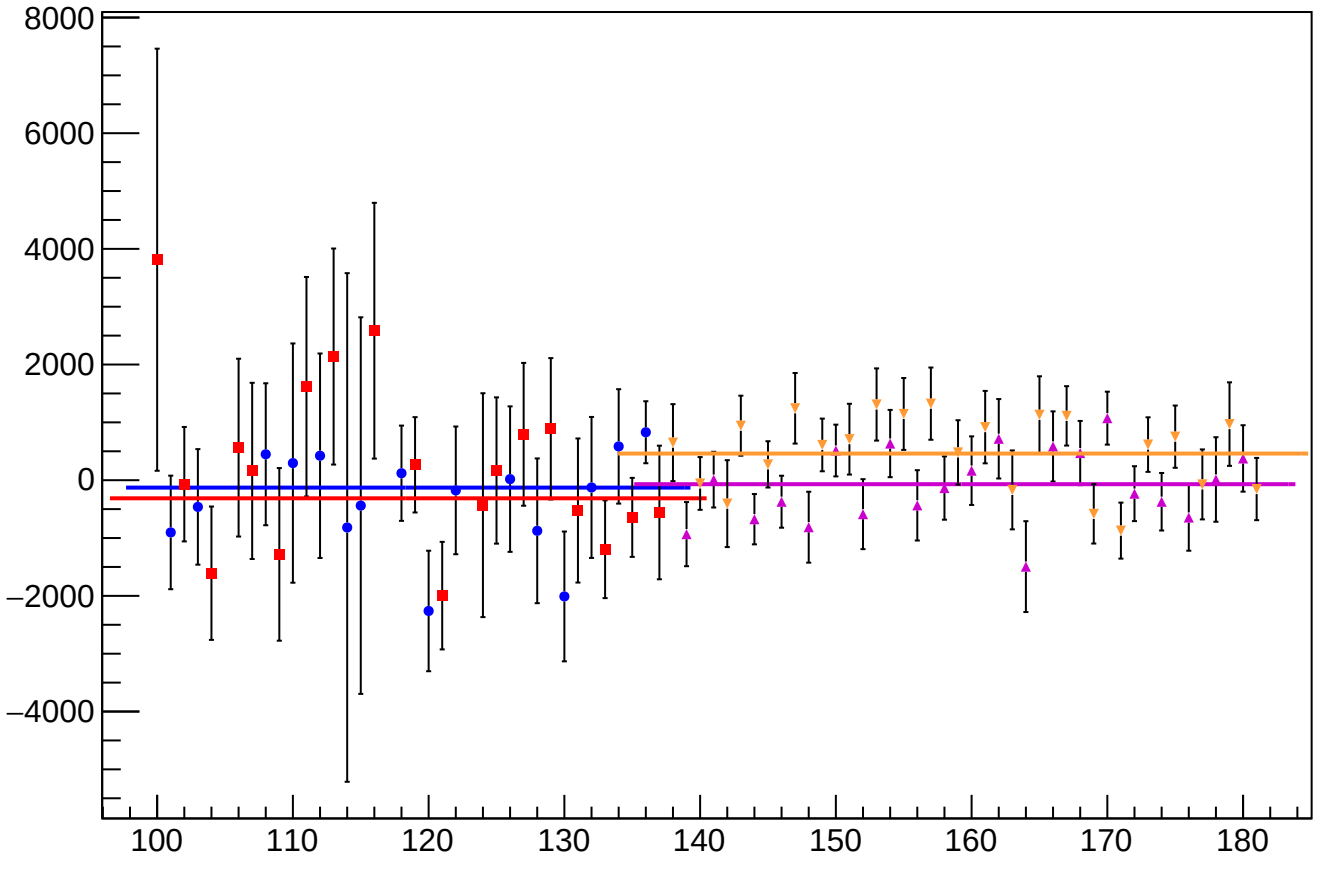
Left: 86.460+/-0.010 $\chi^2$/NDF: 1047987.5/43

Right: 106.674+/-0.020 $\chi^2$/NDF: 764328.3/34

In: 90.419+/-0.013 $\chi^2$/NDF:1241371.6/36

Out: 91.067+/-0.013 $\chi^2$/NDF:1378774.9/41

All: 90.749+/-0.009 $\chi^2$/NDF: 2621388.9/78




Right In: -128.056+/-268.611 $\chi^2$/NDF: 12.3/15

Left Out: 460.759+/-115.644 $\chi^2$/NDF:29.3/22

Right Out: -313.031+/-270.131 $\chi^2$/NDF: 15.0/18

Left In: -69.044+/-118.742 $\chi^2$/NDF:25.8/20

Left: 202.858+/-82.846 $\chi^2$/NDF: 65.3/43

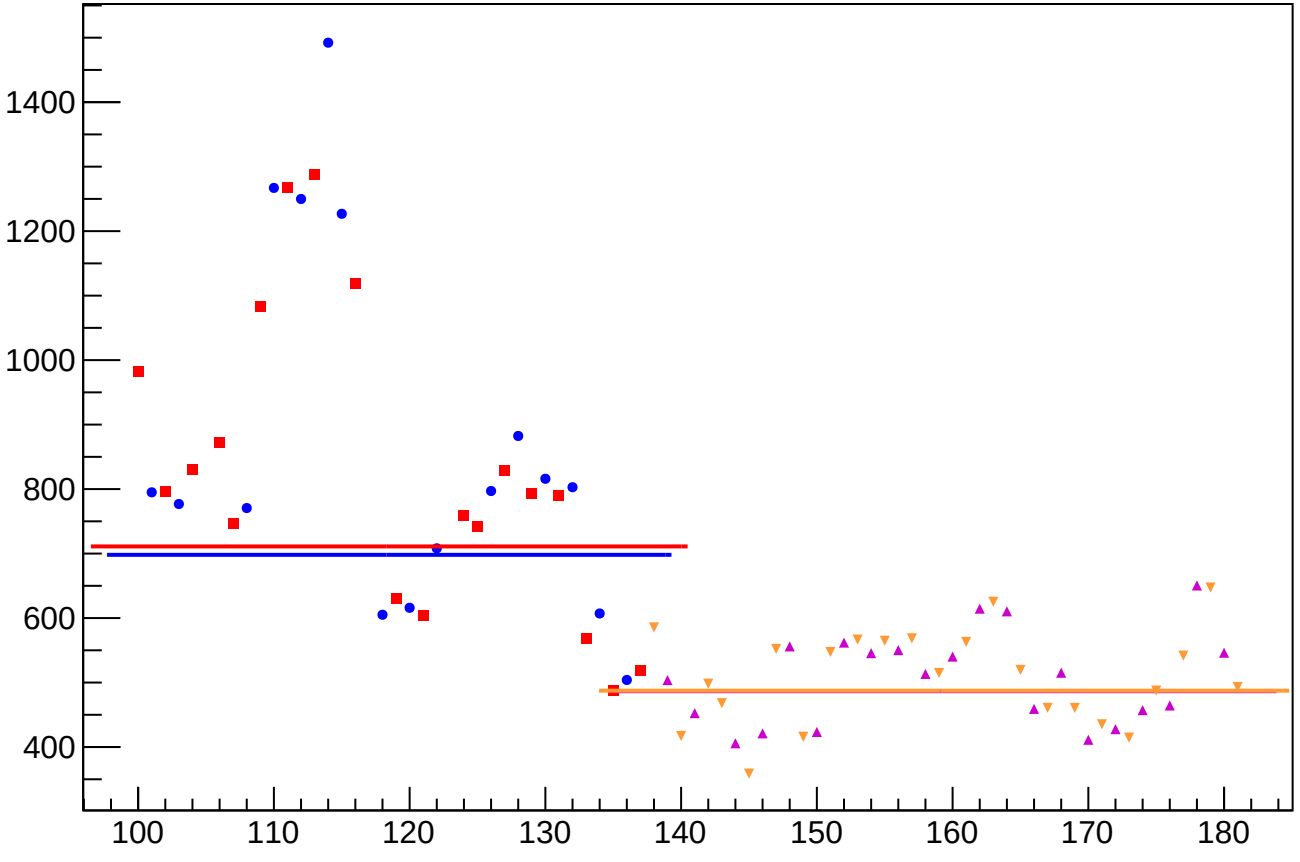
Right: -220.022+/-190.472 $\chi^2$/NDF: 27.5/34

In: -78.691+/-108.603 $\chi^2$/NDF:38.1/36

Out: 340.910+/-106.312 $\chi^2$/NDF:51.3/41

All: 135.583+/-75.971 $\chi^2$/NDF: 97.0/78

asym_sam_26_48_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 698.055+/-0.190 $\chi^2$/NDF: 912851.5/15

Left Out: 487.415+/-0.082 $\chi^2$/NDF:805026.6/22

Right Out: 711.088+/-0.191 $\chi^2$/NDF: 1035118.4/18

Left In: 486.537+/-0.084 $\chi^2$/NDF:629246.3/20

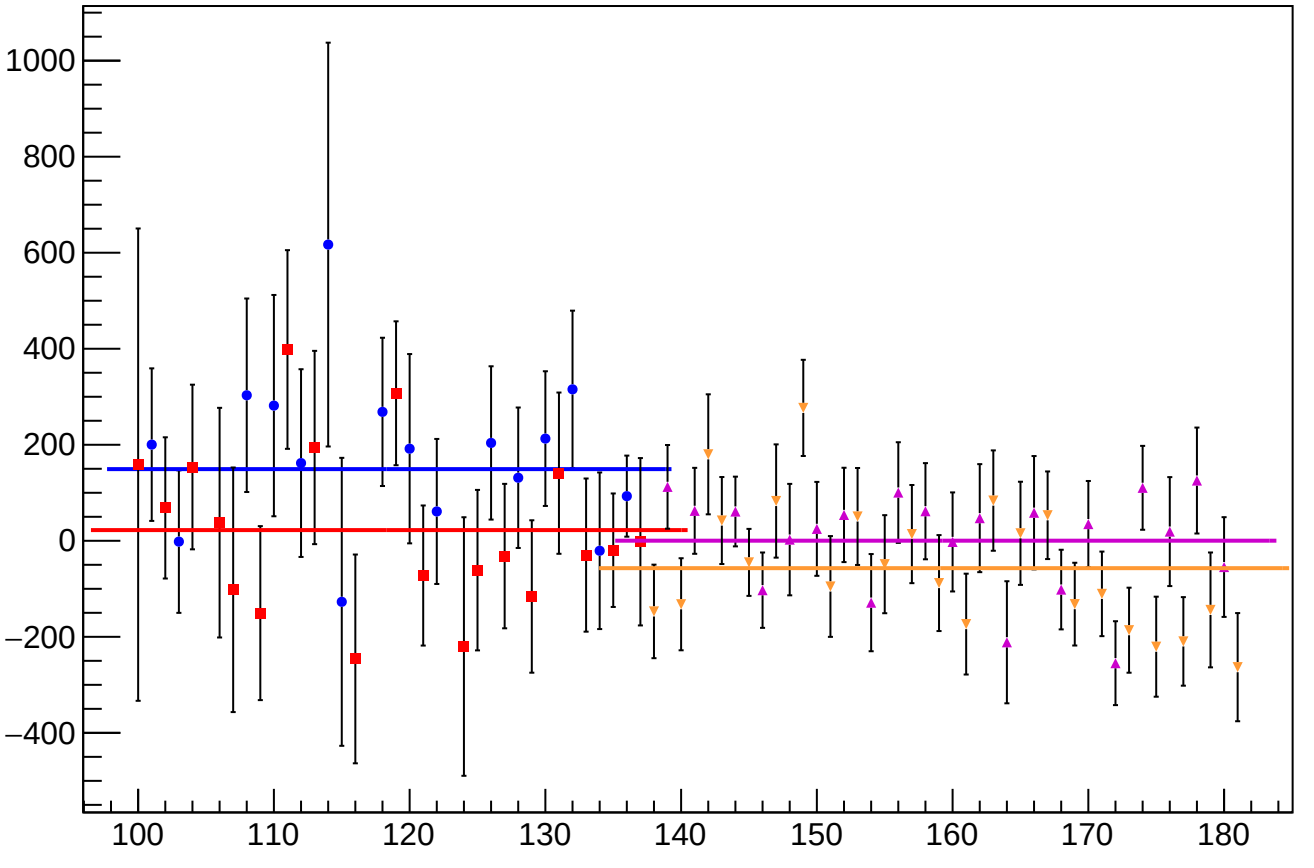
Left: 486.988+/-0.059 $\chi^2$/NDF: 1434329.0/43

Right: 704.534+/-0.135 $\chi^2$/NDF: 1950310.9/34

In: 521.114+/-0.077 $\chi^2$/NDF:2579522.3/36

Out: 522.059+/-0.075 $\chi^2$/NDF:2998982.2/41

All: 521.596+/-0.054 $\chi^2$/NDF: 5578581.8/78




Right In: 149.294+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: -56.992+/-20.429 $\chi^2$/NDF:38.0/22

Right Out: 22.297+/-40.123 $\chi^2$/NDF: 14.2/18

Left In: 0.228+/-20.989 $\chi^2$/NDF:24.4/20

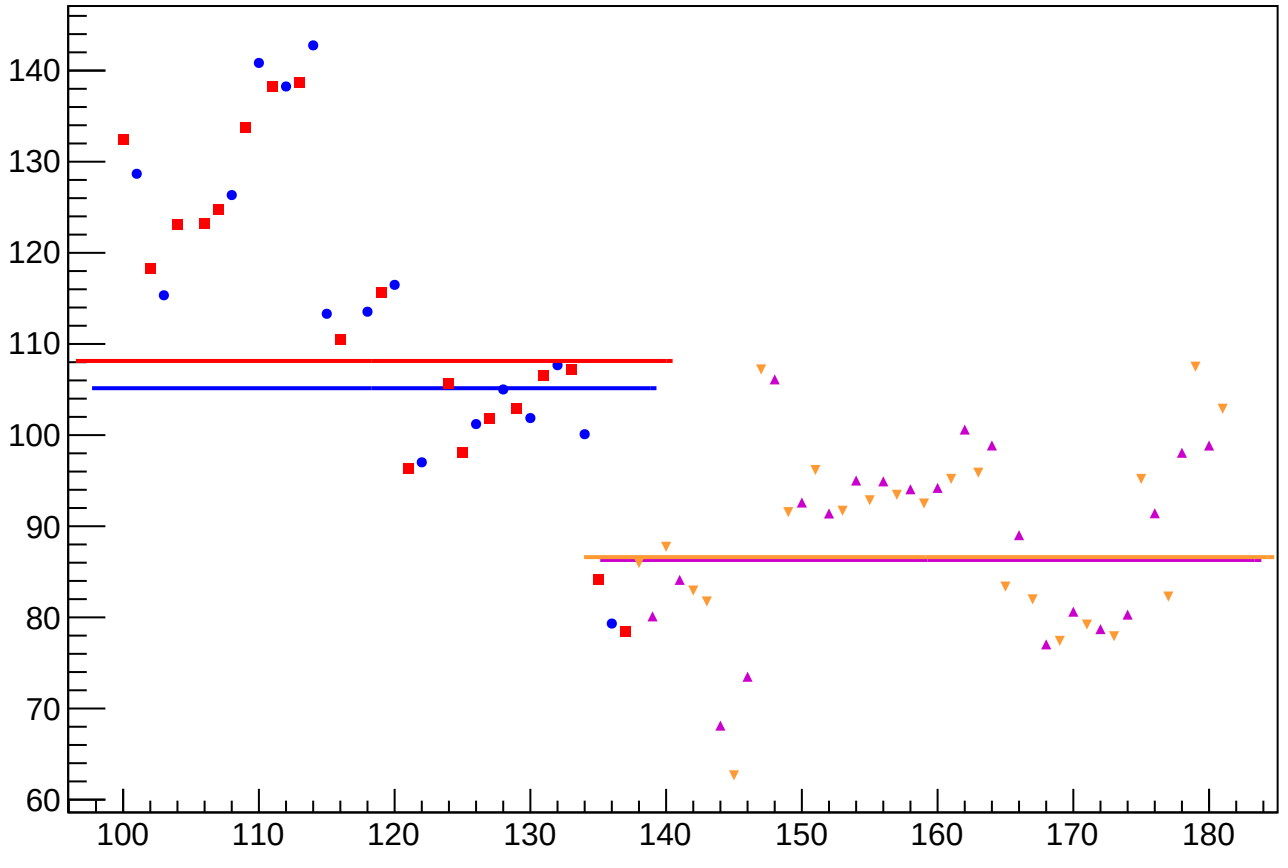
Left: -29.156+/-14.639 $\chi^2$/NDF: 66.2/43

Right: 86.488+/-28.216 $\chi^2$/NDF: 27.3/34

In: 32.807+/-18.554 $\chi^2$/NDF:43.4/36

Out: -40.669+/-18.205 $\chi^2$/NDF:55.3/41

All: -4.628+/-12.994 $\chi^2$/NDF: 106.7/78




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.5/15

Left Out: 86.612+/-0.014 $\chi^2$/NDF:567227.4/22

Right Out: 108.136+/-0.028 $\chi^2$/NDF: 346321.9/18

Left In: 86.300+/-0.015 $\chi^2$/NDF:480533.6/20

Left: 86.460+/-0.010 $\chi^2$/NDF: 1047987.5/43

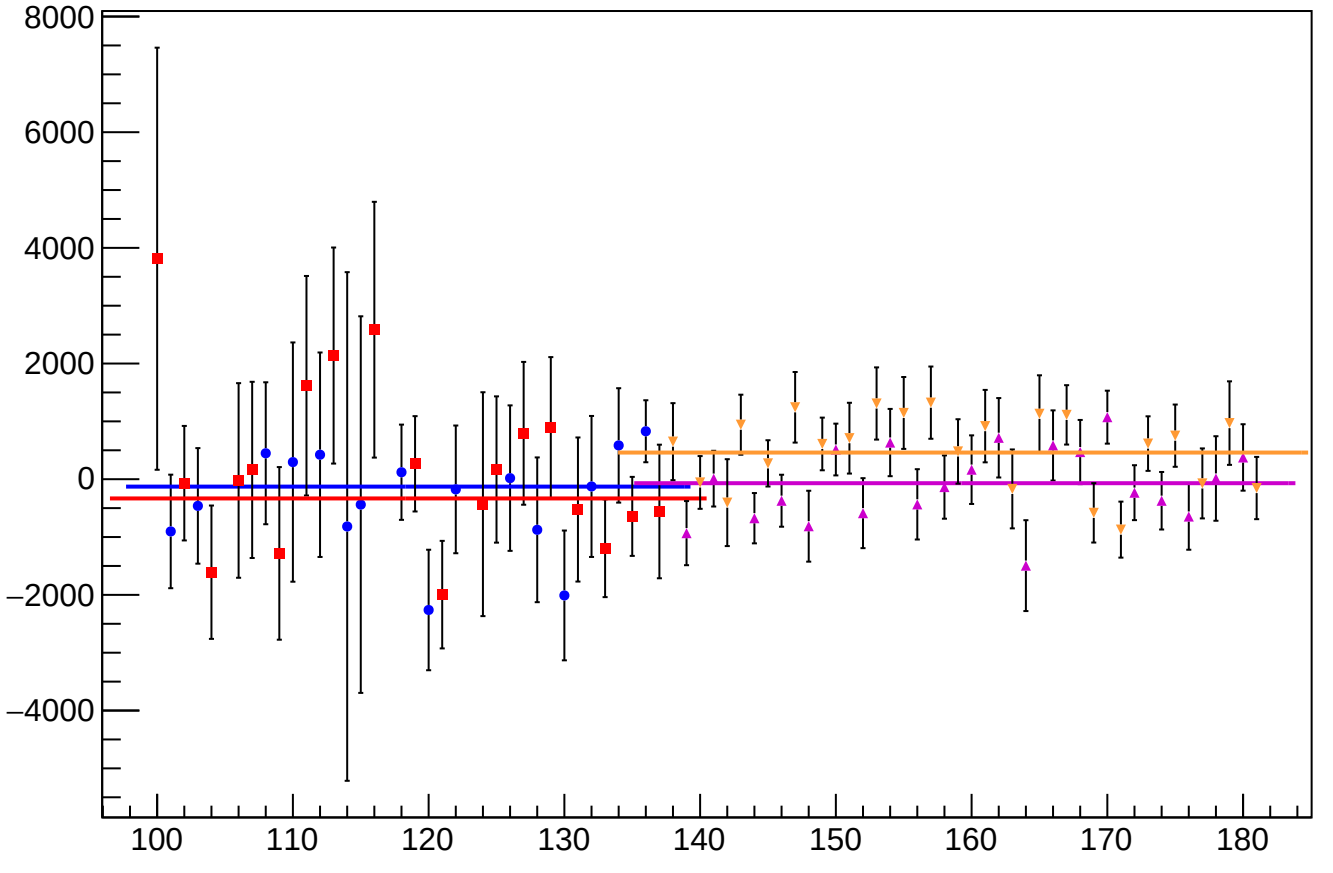
Right: 106.625+/-0.020 $\chi^2$/NDF: 760343.1/34

In: 90.419+/-0.013 $\chi^2$/NDF:1241372.0/36

Out: 91.043+/-0.013 $\chi^2$/NDF:1370654.2/41

All: 90.737+/-0.009 $\chi^2$/NDF: 2613179.0/78

asym_sam_26_48_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: -128.047+/-268.611 $\chi^2$/NDF: 12.3/15

Left Out: 460.757+/-115.644 $\chi^2$/NDF:29.3/22

Right Out: -332.665+/-270.835 $\chi^2$/NDF: 14.7/18

Left In: -69.042+/-118.742 $\chi^2$/NDF:25.8/20

Left: 202.858+/-82.846 $\chi^2$/NDF: 65.3/43

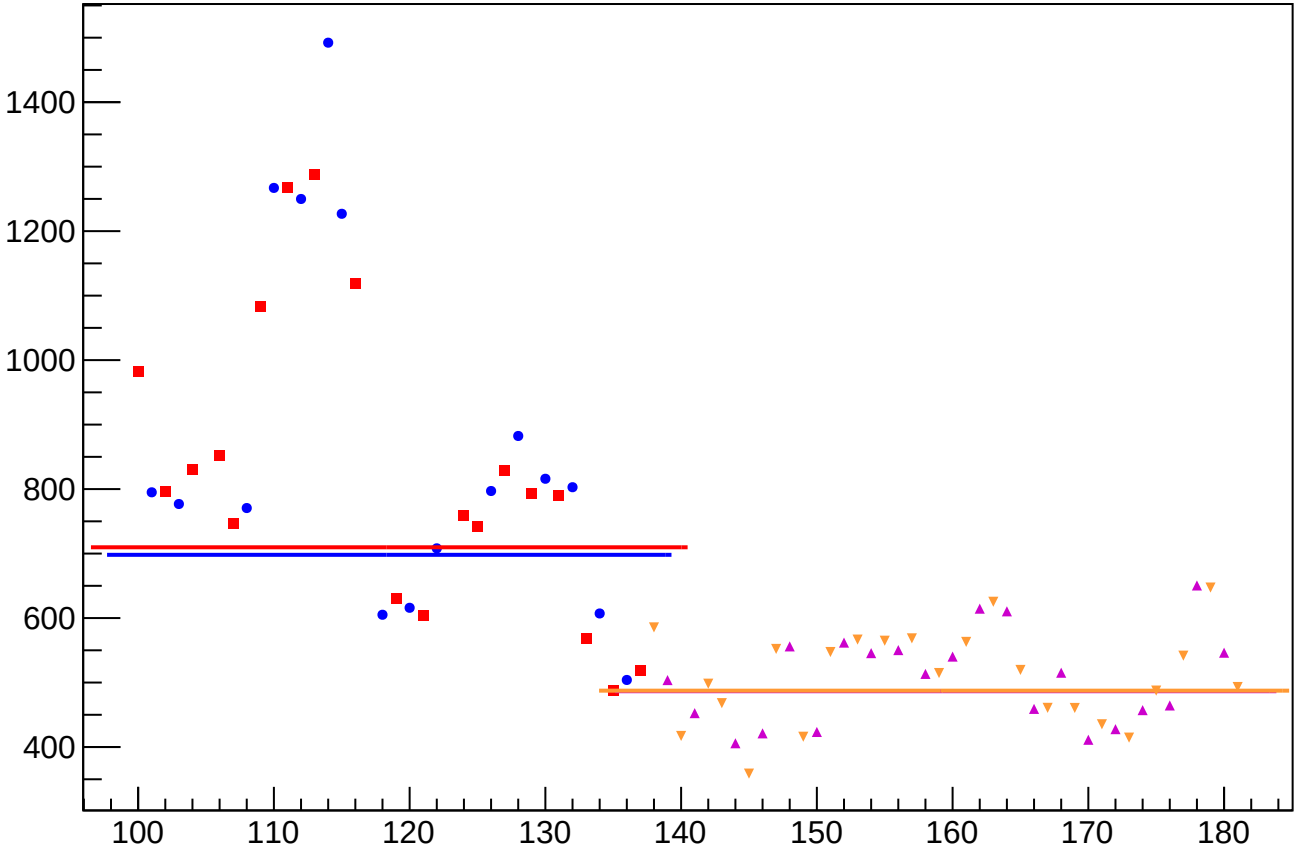
Right: -229.512+/-190.718 $\chi^2$/NDF: 27.3/34

In: -78.688+/-108.603 $\chi^2$/NDF:38.1/36

Out: 338.407+/-106.354 $\chi^2$/NDF:51.3/41

All: 134.223+/-75.987 $\chi^2$/NDF: 96.9/78

asym_sam_26_48_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 698.055+/-0.190 $\chi^2$/NDF: 912861.2/15

Left Out: 487.415+/-0.082 $\chi^2$/NDF:805023.5/22

Right Out: 709.748+/-0.192 $\chi^2$/NDF: 1027114.2/18

Left In: 486.537+/-0.084 $\chi^2$/NDF:629250.0/20

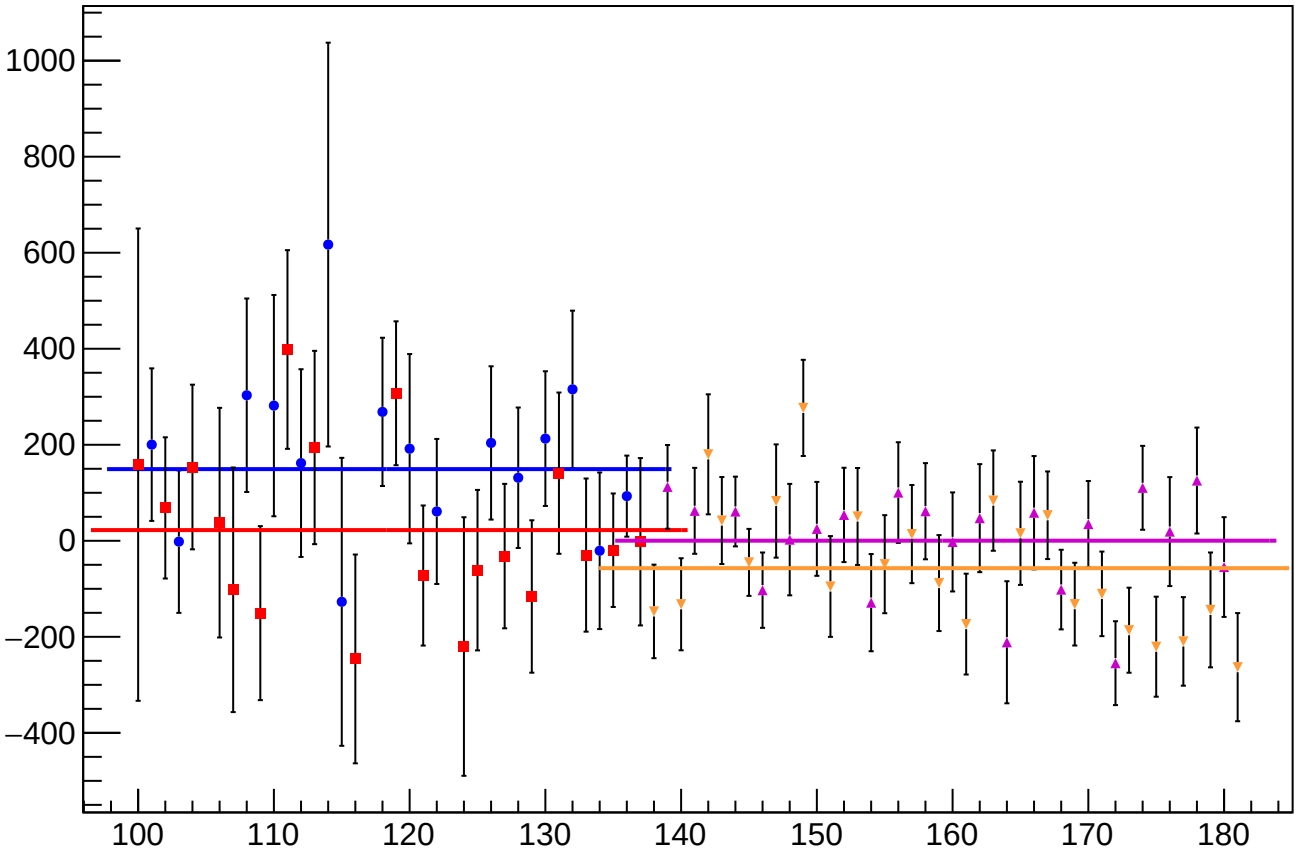
Left: 486.988+/-0.059 $\chi^2$/NDF: 1434329.6/43

Right: 703.854+/-0.135 $\chi^2$/NDF: 1941854.8/34

In: 521.114+/-0.077 $\chi^2$/NDF:2579539.4/36

Out: 521.700+/-0.075 $\chi^2$/NDF:2972106.1/41

All: 521.413+/-0.054 $\chi^2$/NDF: 5551675.2/78




Right In: 149.294+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: -56.992+/-20.429 $\chi^2$/NDF:38.0/22

Right Out: 22.297+/-40.123 $\chi^2$/NDF: 14.2/18

Left In: 0.228+/-20.989 $\chi^2$/NDF:24.4/20

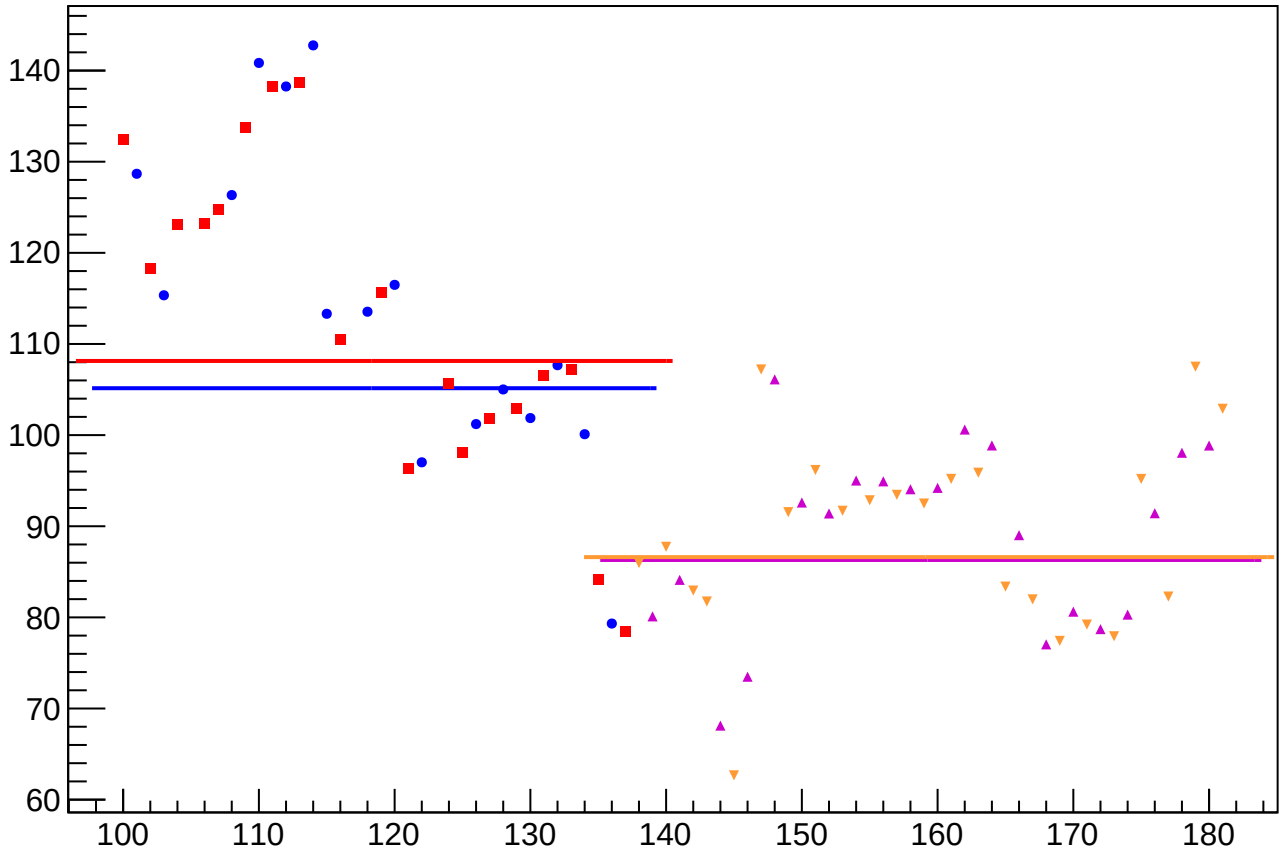
Left: -29.156+/-14.639 $\chi^2$/NDF: 66.2/43

Right: 86.488+/-28.216 $\chi^2$/NDF: 27.3/34

In: 32.807+/-18.554 $\chi^2$/NDF:43.4/36

Out: -40.669+/-18.205 $\chi^2$/NDF:55.3/41

All: -4.628+/-12.994 $\chi^2$/NDF: 106.7/78




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.5/15

Left Out: 86.612+/-0.014 $\chi^2$/NDF:567227.4/22

Right Out: 108.136+/-0.028 $\chi^2$/NDF: 346321.9/18

Left In: 86.300+/-0.015 $\chi^2$/NDF:480533.6/20

Left: 86.460+/-0.010 $\chi^2$/NDF: 1047987.5/43

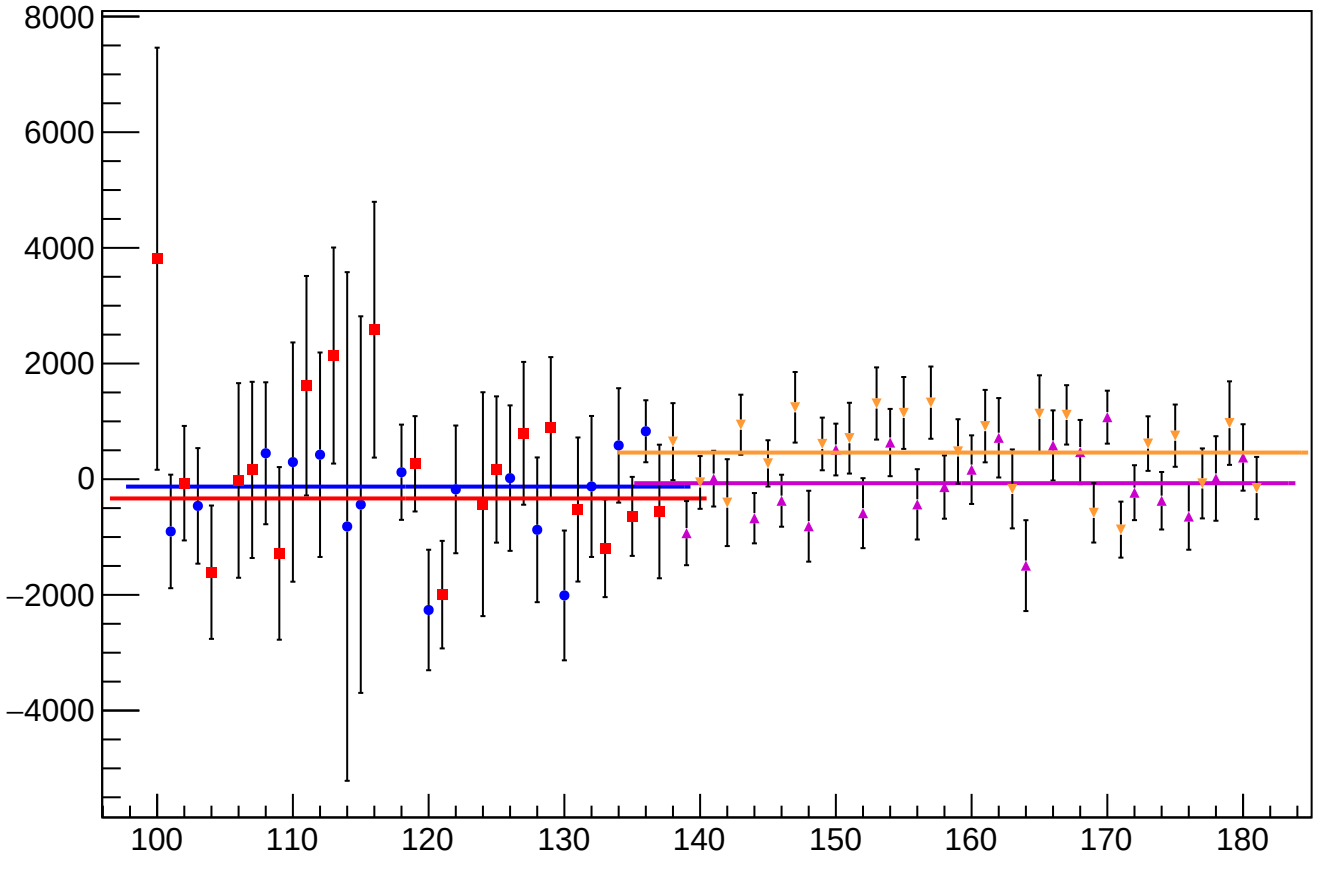
Right: 106.625+/-0.020 $\chi^2$/NDF: 760343.1/34

In: 90.419+/-0.013 $\chi^2$/NDF:1241372.0/36

Out: 91.043+/-0.013 $\chi^2$/NDF:1370654.2/41

All: 90.737+/-0.009 $\chi^2$/NDF: 2613179.0/78

asym_sam_26_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -128.047+/-268.611 $\chi^2$/NDF: 12.3/15

Left Out: 460.757+/-115.644 $\chi^2$/NDF:29.3/22

Right Out: -332.665+/-270.835 $\chi^2$/NDF: 14.7/18

Left In: -69.042+/-118.742 $\chi^2$/NDF:25.8/20

Left: 202.858+/-82.846 $\chi^2$/NDF: 65.3/43

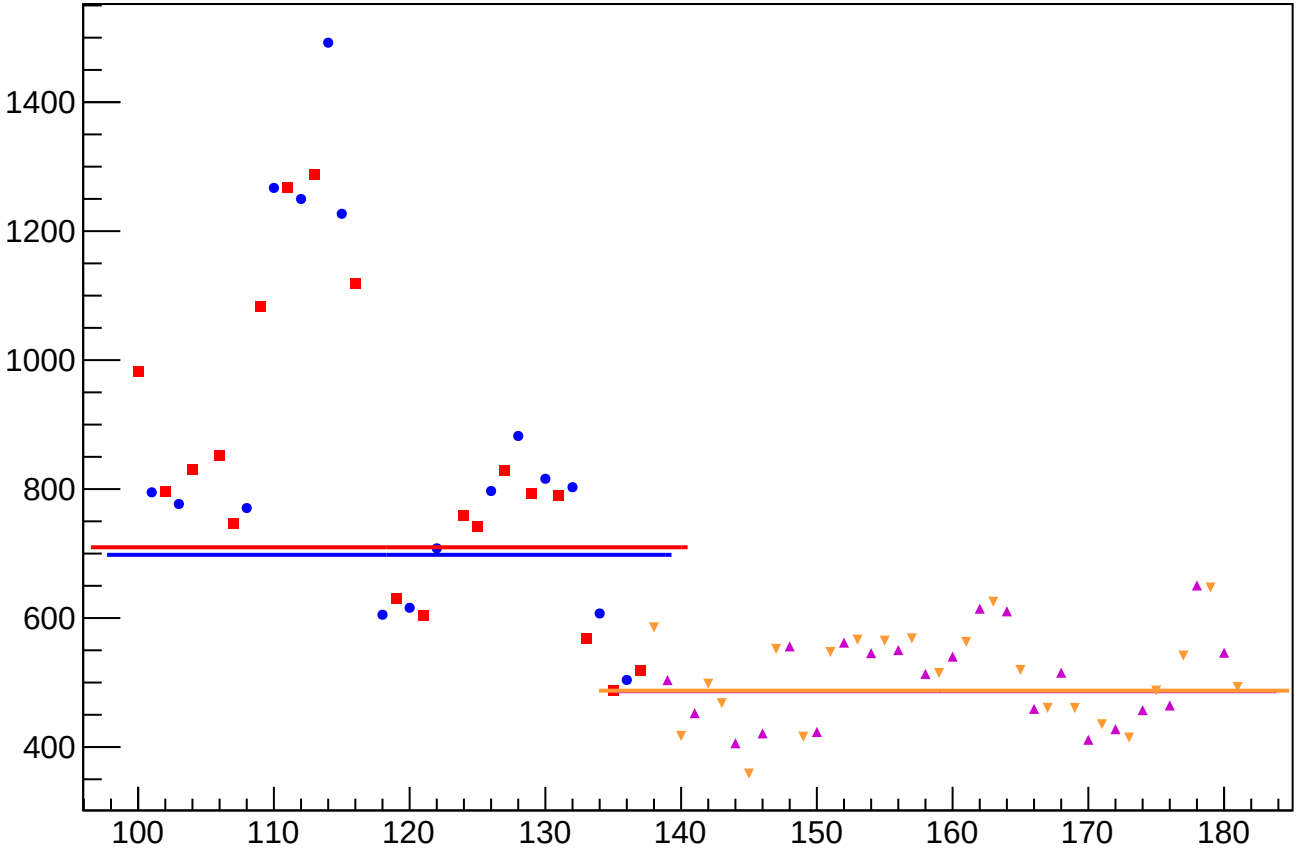
Right: -229.512+/-190.718 $\chi^2$/NDF: 27.3/34

In: -78.688+/-108.603 $\chi^2$/NDF:38.1/36

Out: 338.407+/-106.354 $\chi^2$/NDF:51.3/41

All: 134.223+/-75.987 $\chi^2$/NDF: 96.9/78

asym_sam_26_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 698.055+/-0.190 $\chi^2$/NDF: 912861.2/15

Left Out: 487.415+/-0.082 $\chi^2$/NDF:805023.5/22

Right Out: 709.748+/-0.192 $\chi^2$/NDF: 1027114.2/18

Left In: 486.537+/-0.084 $\chi^2$/NDF:629250.0/20

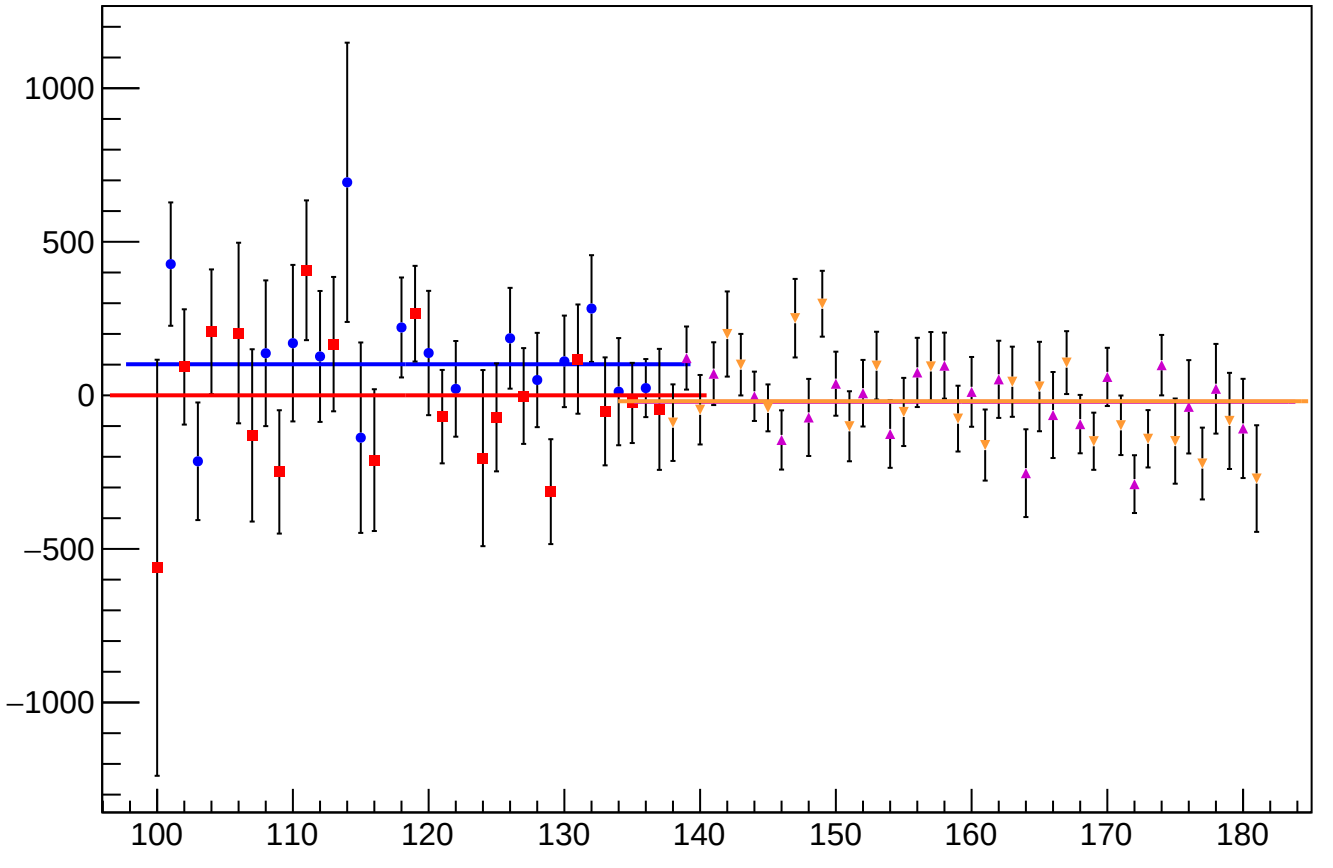
Left: 486.988+/-0.059 $\chi^2$/NDF: 1434329.6/43

Right: 703.854+/-0.135 $\chi^2$/NDF: 1941854.8/34

In: 521.114+/-0.077 $\chi^2$/NDF:2579539.4/36

Out: 521.700+/-0.075 $\chi^2$/NDF:2972106.1/41

All: 521.413+/-0.054 $\chi^2$/NDF: 5551675.2/78




Right In: 101.281+/-43.510 $\chi^2$/NDF: 11.0/15

Left Out: -19.116+/-23.249 $\chi^2$/NDF:34.5/22

Right Out: 0.125+/-44.035 $\chi^2$/NDF: 16.6/18

Left In: -21.005+/-23.915 $\chi^2$/NDF:22.2/20

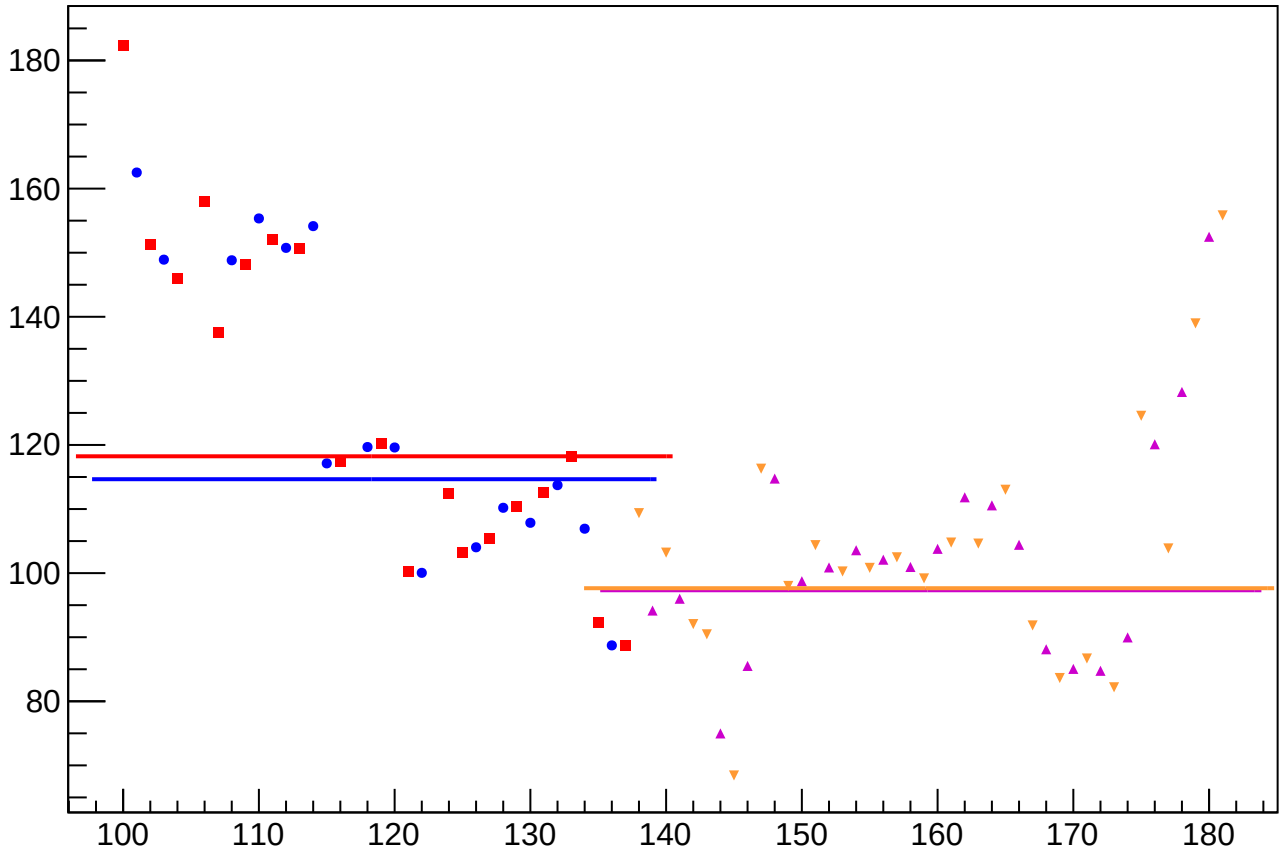
Left: -20.034+/-16.670 $\chi^2$/NDF: 56.8/43

Right: 51.310+/-30.950 $\chi^2$/NDF: 30.3/34

In: 7.367+/-20.958 $\chi^2$/NDF:39.3/36

Out: -14.921+/-20.559 $\chi^2$/NDF:51.3/41

All: -3.991+/-14.676 $\chi^2$/NDF: 91.2/78




Right In: 114.655+/-0.031 $\chi^2$/NDF: 531976.2/15

Left Out: 97.645+/-0.016 $\chi^2$/NDF:999408.4/22

Right Out: 118.230+/-0.031 $\chi^2$/NDF: 483407.4/18

Left In: 97.328+/-0.017 $\chi^2$/NDF:762773.7/20

Left: 97.491+/-0.012 $\chi^2$/NDF: 1762363.0/43

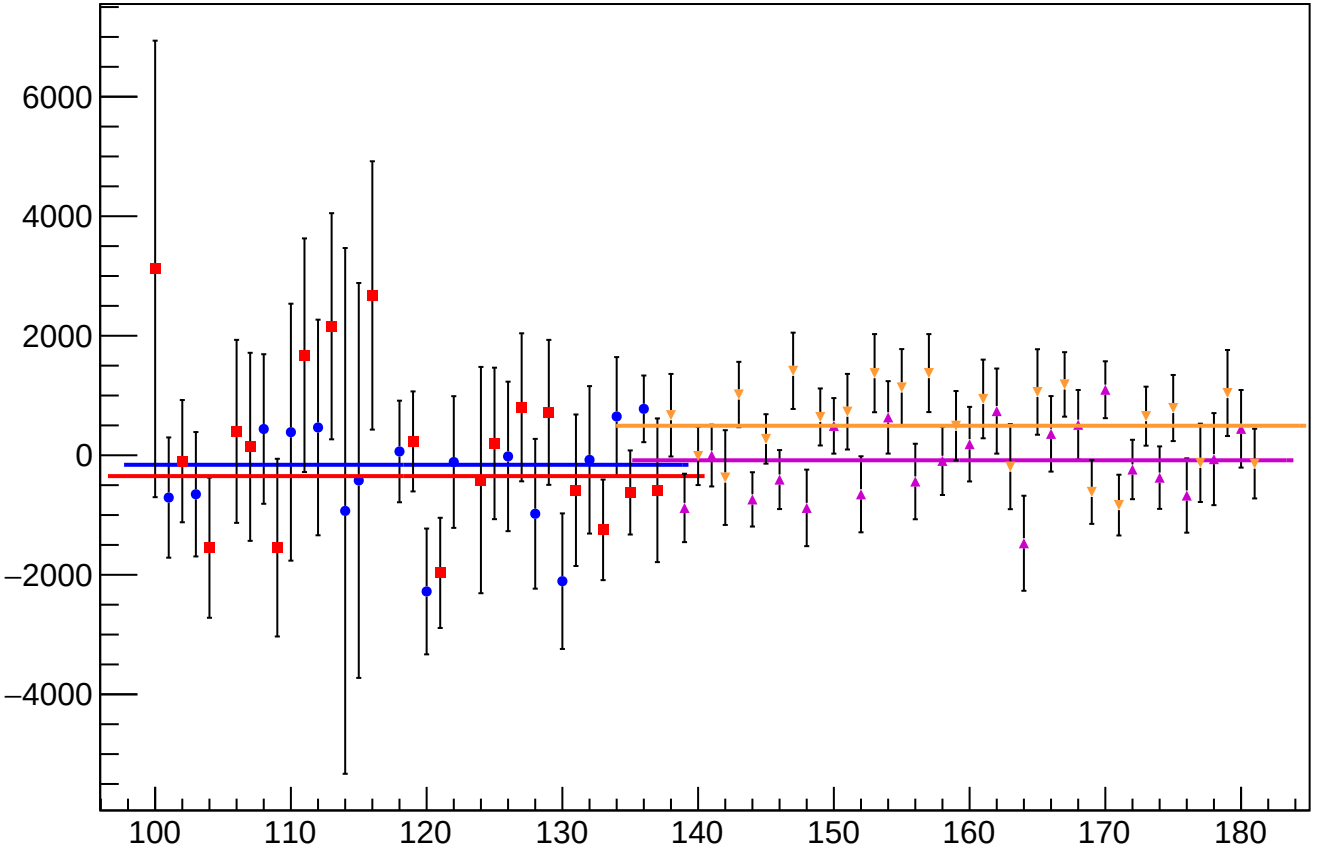
Right: 116.421+/-0.022 $\chi^2$/NDF: 1022057.2/34

In: 101.348+/-0.015 $\chi^2$/NDF:1538323.2/36

Out: 102.133+/-0.015 $\chi^2$/NDF:1824608.1/41

All: 101.748+/-0.010 $\chi^2$/NDF: 3364358.9/78

asym_sam_26_48_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: -159.110+/-274.558 $\chi^2$/NDF: 12.0/15

Left Out: 494.194+/-121.156 $\chi^2$/NDF:28.3/22

Right Out: -348.528+/-273.595 $\chi^2$/NDF: 14.3/18

Left In: -83.871+/-125.062 $\chi^2$/NDF:24.3/20

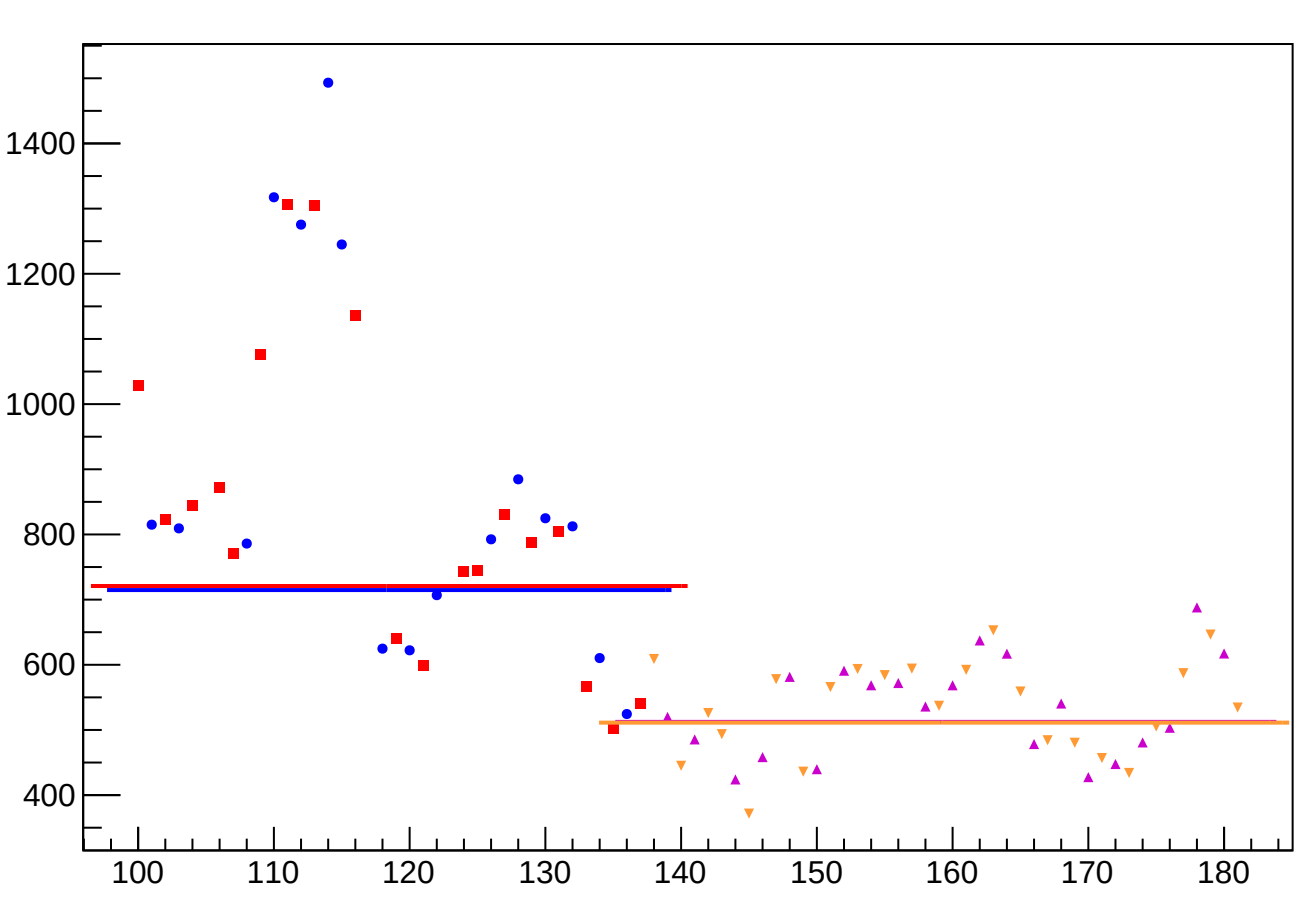
Left: 214.328+/-87.018 $\chi^2$/NDF: 63.6/43

Right: -254.152+/-193.800 $\chi^2$/NDF: 26.5/34

In: -96.800+/-113.811 $\chi^2$/NDF:36.3/36

Out: 356.031+/-110.780 $\chi^2$/NDF:50.5/41

All: 135.725+/-79.383 $\chi^2$/NDF: 95.0/78




Right In: 714.666+/-0.194 $\chi^2$/NDF: 876217.1/15

Left Out: 511.245+/-0.086 $\chi^2$/NDF:790004.3/22

Right Out: 720.885+/-0.193 $\chi^2$/NDF: 1018435.1/18

Left In: 512.388+/-0.088 $\chi^2$/NDF:630675.3/20

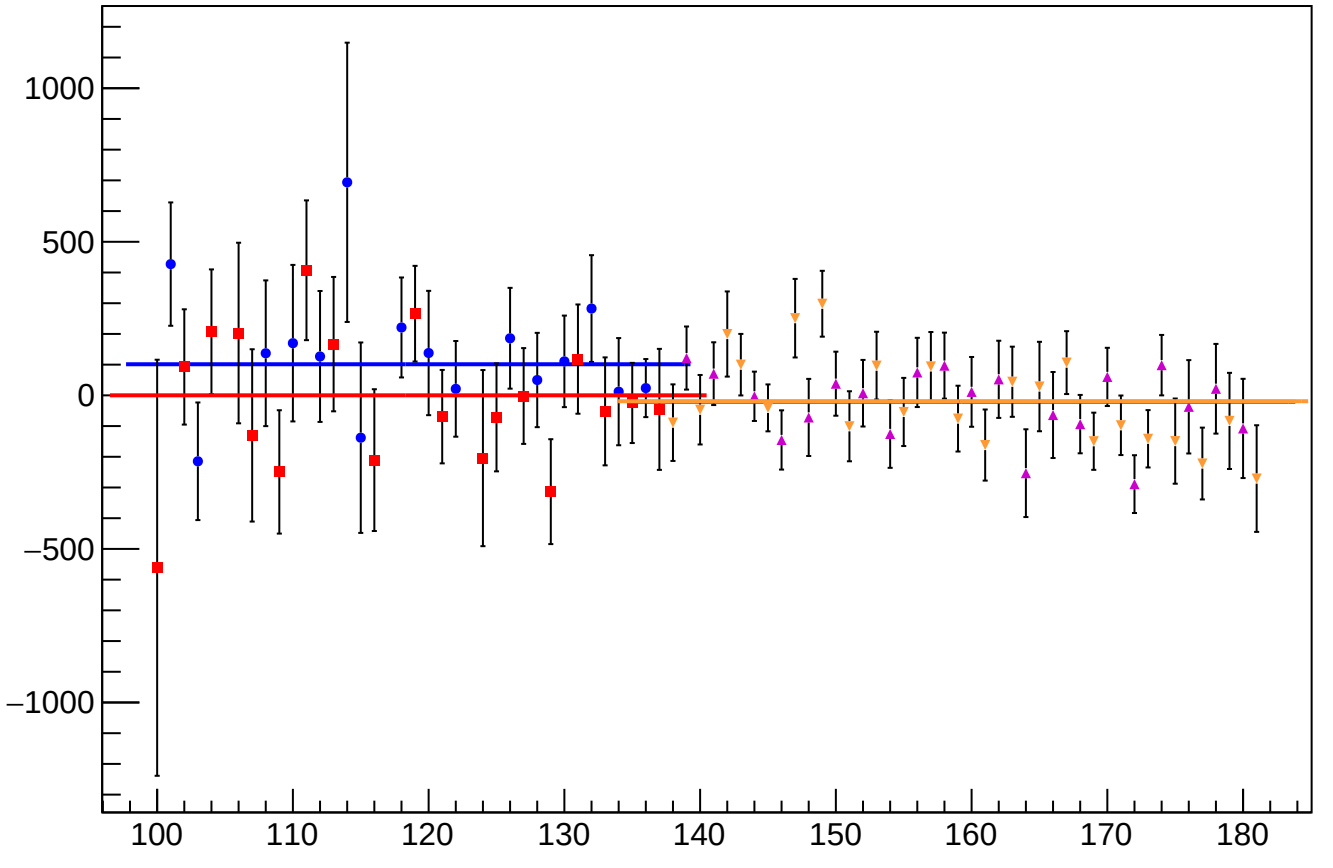
Left: 511.799+/-0.062 $\chi^2$/NDF: 1420765.7/43

Right: 717.786+/-0.137 $\chi^2$/NDF: 1895167.0/34

In: 547.146+/-0.080 $\chi^2$/NDF:2405934.8/36

Out: 545.615+/-0.078 $\chi^2$/NDF:2790169.9/41

All: 546.360+/-0.056 $\chi^2$/NDF: 5196290.4/78




Right In: 101.278+/-43.510 $\chi^2$/NDF: 11.0/15

Left Out: -19.117+/-23.249 $\chi^2$/NDF:34.5/22

Right Out: 0.125+/-44.035 $\chi^2$/NDF: 16.6/18

Left In: -21.006+/-23.915 $\chi^2$/NDF:22.2/20

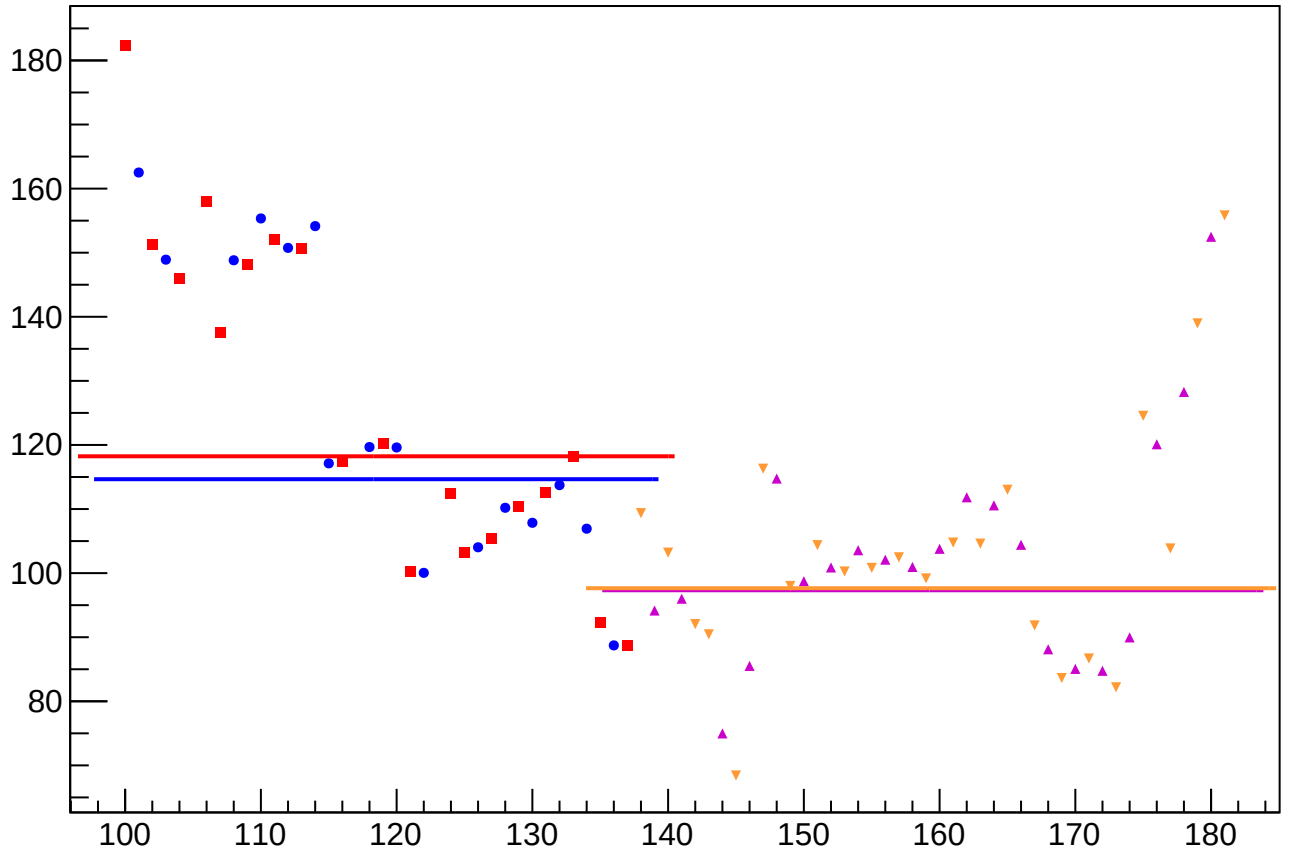
Left: -20.035+/-16.670 $\chi^2$/NDF: 56.8/43

Right: 51.308+/-30.950 $\chi^2$/NDF: 30.3/34

In: 7.366+/-20.958 $\chi^2$/NDF:39.3/36

Out: -14.923+/-20.559 $\chi^2$/NDF:51.3/41

All: -3.992+/-14.676 $\chi^2$/NDF: 91.2/78




Right In: 114.655+/-0.031 $\chi^2$/NDF: 531962.9/15

Left Out: 97.645+/-0.016 $\chi^2$/NDF:999414.3/22

Right Out: 118.230+/-0.031 $\chi^2$/NDF: 483401.1/18

Left In: 97.328+/-0.017 $\chi^2$/NDF:762764.5/20

Left: 97.491+/-0.012 $\chi^2$/NDF: 1762359.5/43

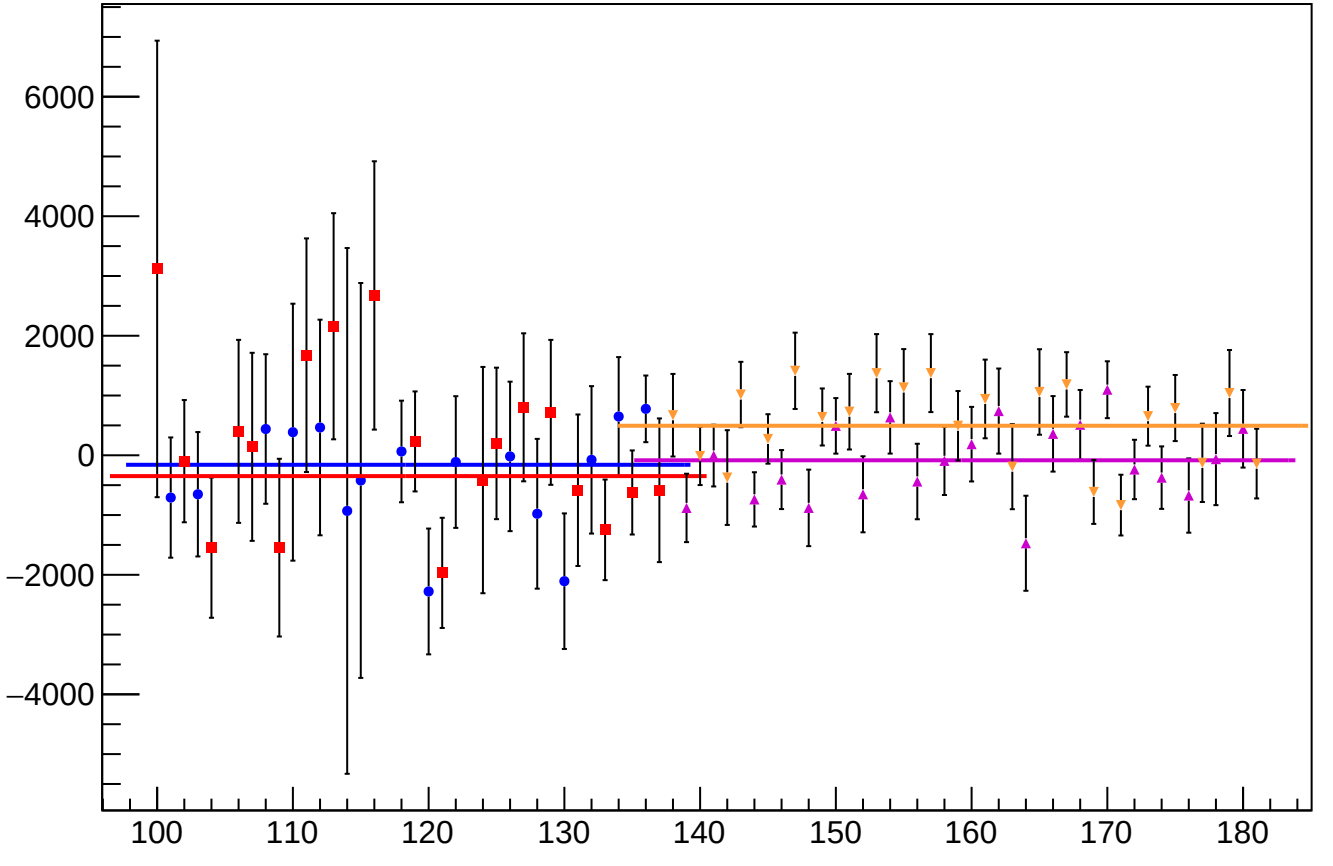
Right: 116.421+/-0.022 $\chi^2$/NDF: 1022036.9/34

In: 101.348+/-0.015 $\chi^2$/NDF:1538305.2/36

Out: 102.133+/-0.015 $\chi^2$/NDF:1824608.9/41

All: 101.748+/-0.010 $\chi^2$/NDF: 3364341.4/78

asym_sam_26_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -159.112+/-274.558 $\chi^2$/NDF: 12.0/15

Left Out: 494.192+/-121.156 $\chi^2$/NDF:28.3/22

Right Out: -348.528+/-273.595 $\chi^2$/NDF: 14.3/18

Left In: -83.871+/-125.062 $\chi^2$/NDF:24.3/20

Left: 214.328+/-87.018 $\chi^2$/NDF: 63.6/43

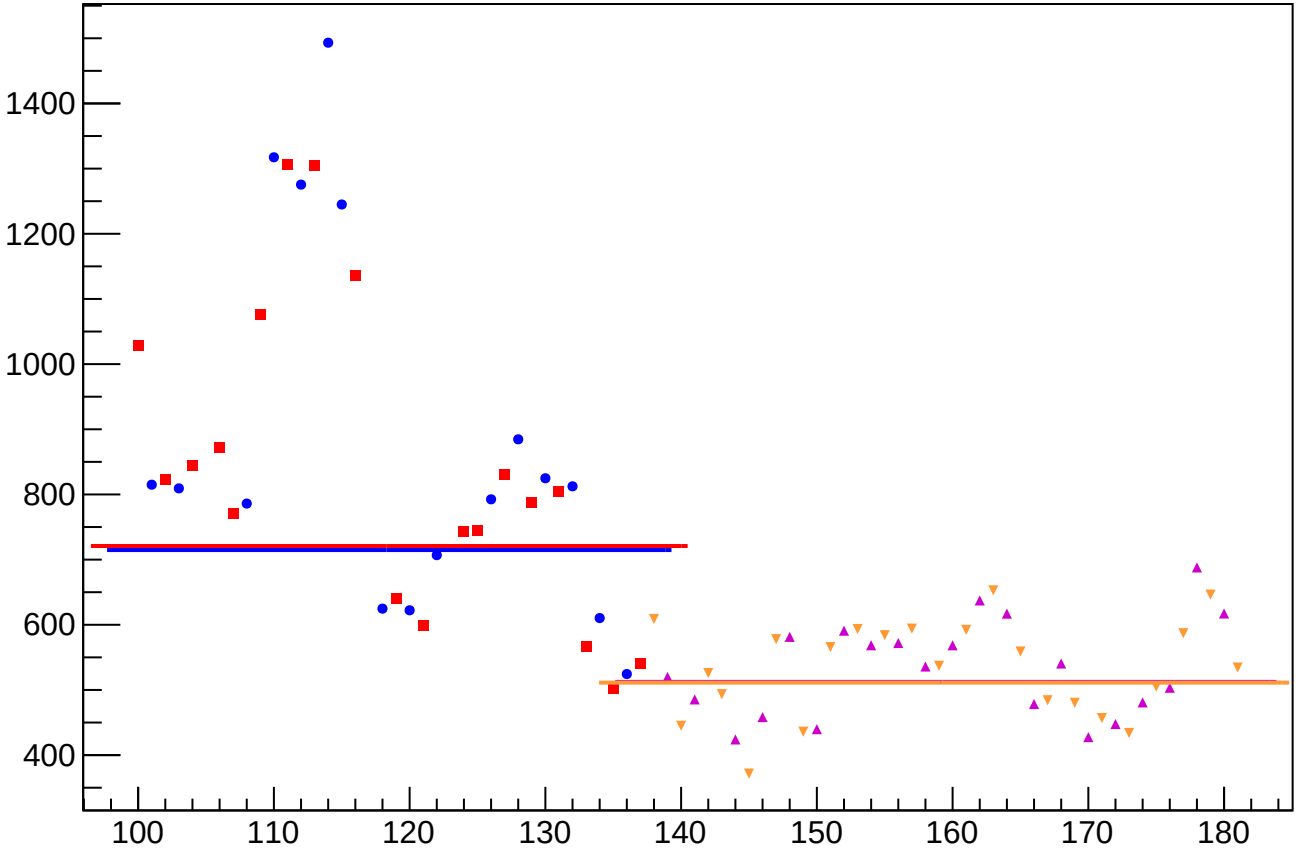
Right: -254.153+/-193.800 $\chi^2$/NDF: 26.5/34

In: -96.800+/-113.811 $\chi^2$/NDF:36.3/36

Out: 356.030+/-110.780 $\chi^2$/NDF:50.5/41

All: 135.724+/-79.383 $\chi^2$/NDF: 95.0/78

asym_sam_26_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 714.666+/-0.194 $\chi^2$/NDF: 876211.4/15

Left Out: 511.245+/-0.086 $\chi^2$/NDF:790004.2/22

Right Out: 720.884+/-0.193 $\chi^2$/NDF: 1018428.9/18

Left In: 512.388+/-0.088 $\chi^2$/NDF:630673.0/20

Left: 511.798+/-0.062 $\chi^2$/NDF: 1420763.4/43

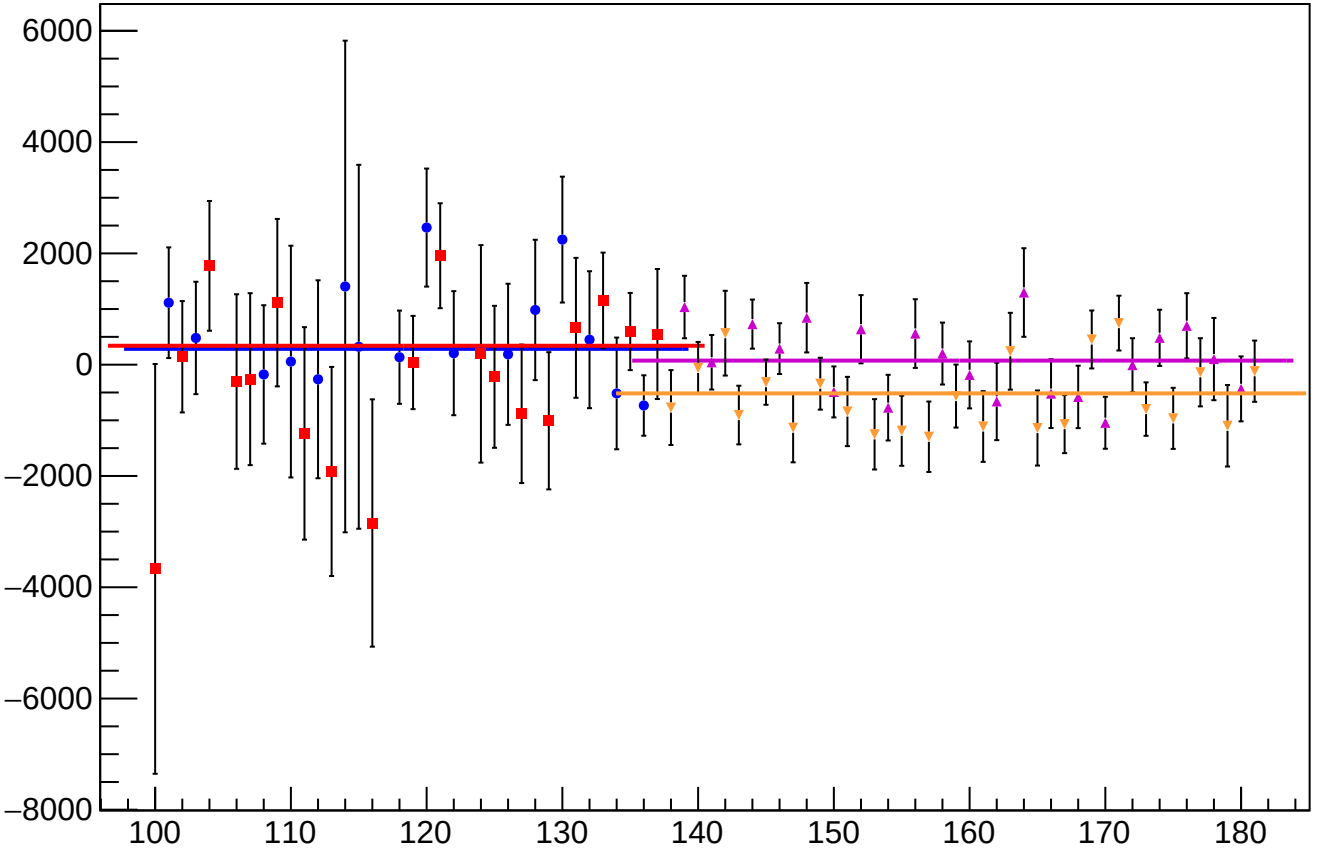
Right: 717.786+/-0.137 $\chi^2$/NDF: 1895155.0/34

In: 547.146+/-0.080 $\chi^2$/NDF:2405928.6/36

Out: 545.615+/-0.078 $\chi^2$/NDF:2790164.0/41

All: 546.360+/-0.056 $\chi^2$/NDF: 5196278.3/78

# asym_sam_26_48_dd_mean vs Slug, Sign Corrected




Right In: 284.780+/-271.944 $\chi^2$/NDF: 12.8/15

Left Out: -515.825+/-117.569 $\chi^2$/NDF:26.0/22

Right Out: 340.018+/-273.601 $\chi^2$/NDF: 14.1/18

Left In: 73.050+/-120.695 $\chi^2$/NDF:26.2/20

Left: -229.112+/-84.217 $\chi^2$/NDF: 64.4/43

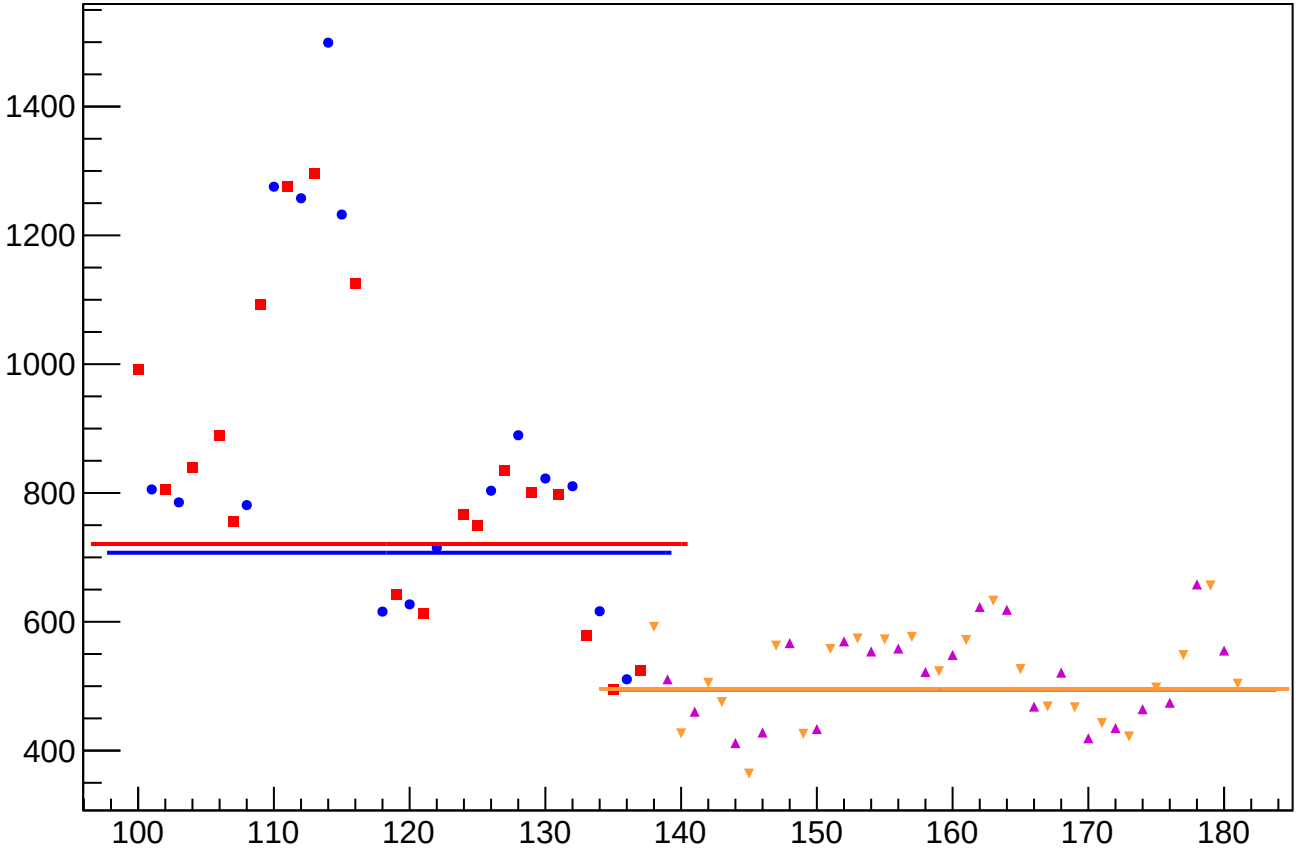
Right: 312.231+/-192.877 $\chi^2$/NDF: 26.9/34

In: 107.893+/-110.318 $\chi^2$/NDF:39.5/36

Out: -382.426+/-108.018 $\chi^2$/NDF:48.3/41

All: -142.430+/-77.181 $\chi^2$/NDF: 97.9/78

# asym_sam_26_48_dd_rms vs Slug, Sign Corrected




Right In: 707.209+/-0.192 $\chi^2$/NDF: 896689.9/15

Left Out: 495.753+/-0.083 $\chi^2$/NDF:788016.8/22

Right Out: 720.778+/-0.193 $\chi^2$/NDF: 1015277.9/18

Left In: 494.703+/-0.085 $\chi^2$/NDF:615812.1/20

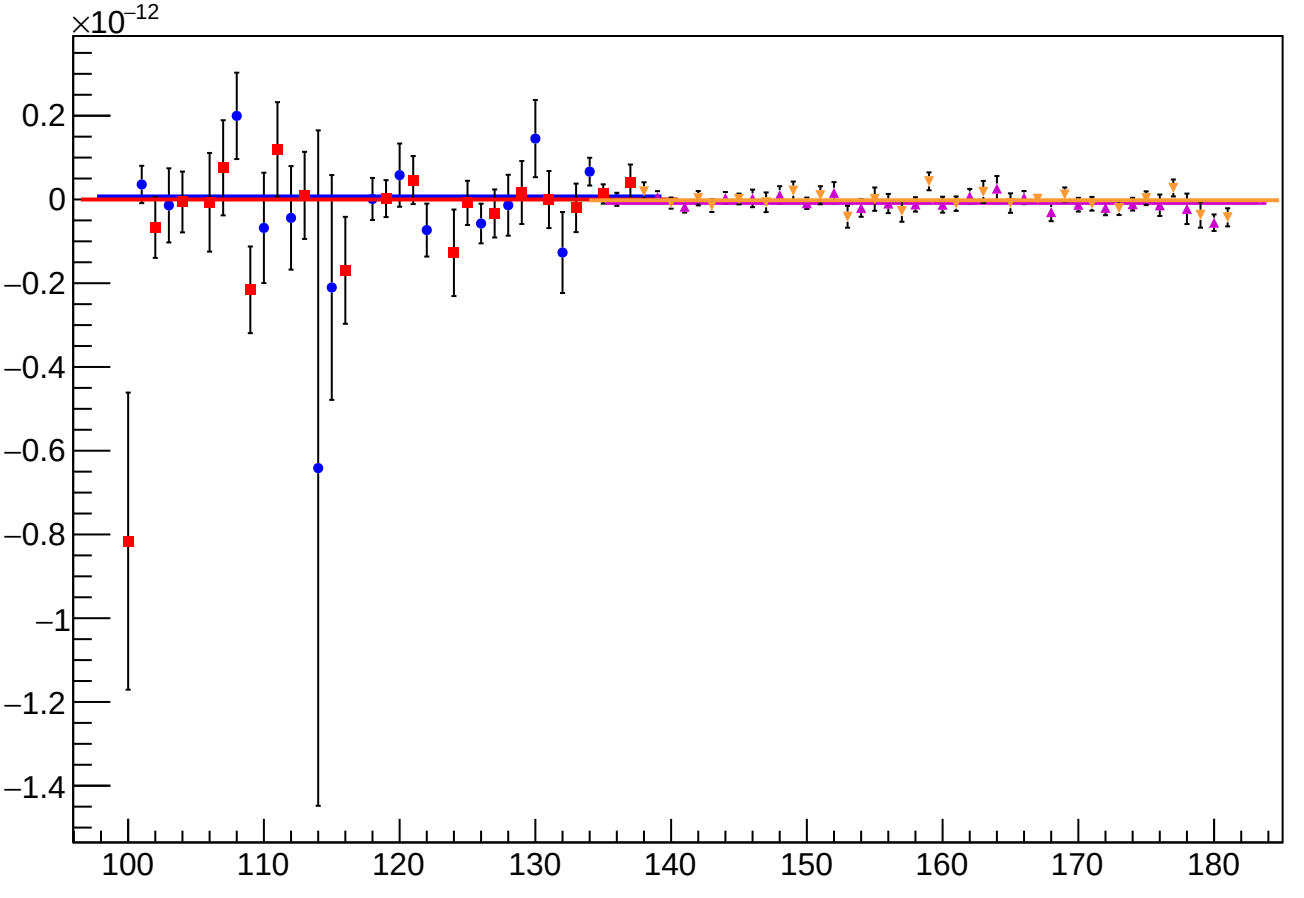
Left: 495.242+/-0.060 $\chi^2$/NDF: 1403906.6/43

Right: 713.952+/-0.136 $\chi^2$/NDF: 1914442.0/34

In: 529.674+/-0.078 $\chi^2$/NDF:2532805.0/36

Out: 530.827+/-0.076 $\chi^2$/NDF:2945293.3/41

All: 530.262+/-0.055 $\chi^2$/NDF: 5478209.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.6/20

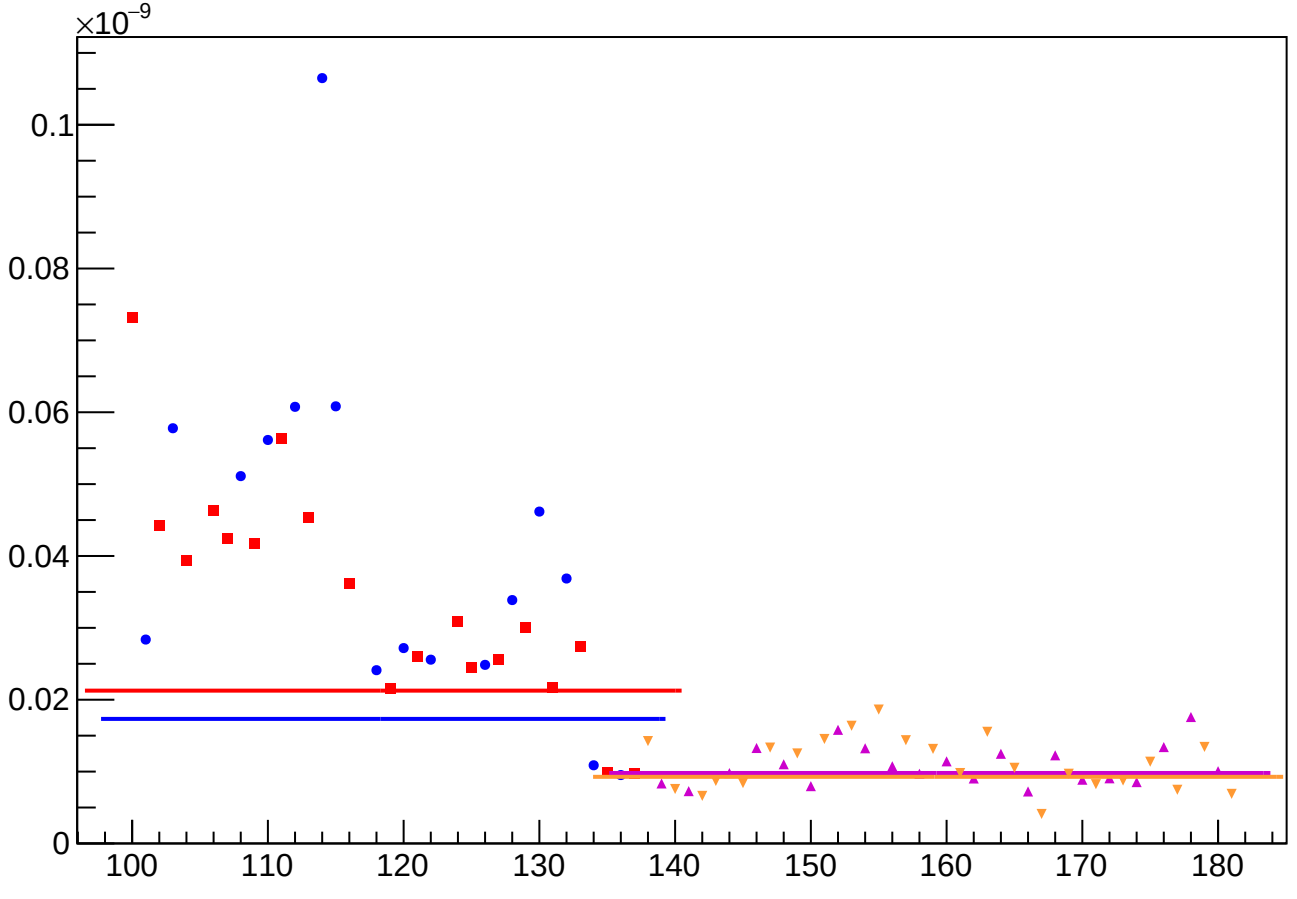
Left: -0.000+/-0.000 $\chi^2$/NDF: 37.3/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 35.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:33.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:39.2/41

All: -0.000+/-0.000 $\chi^2$/NDF: 73.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2368825.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1796364.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1671050.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:617475.2/20

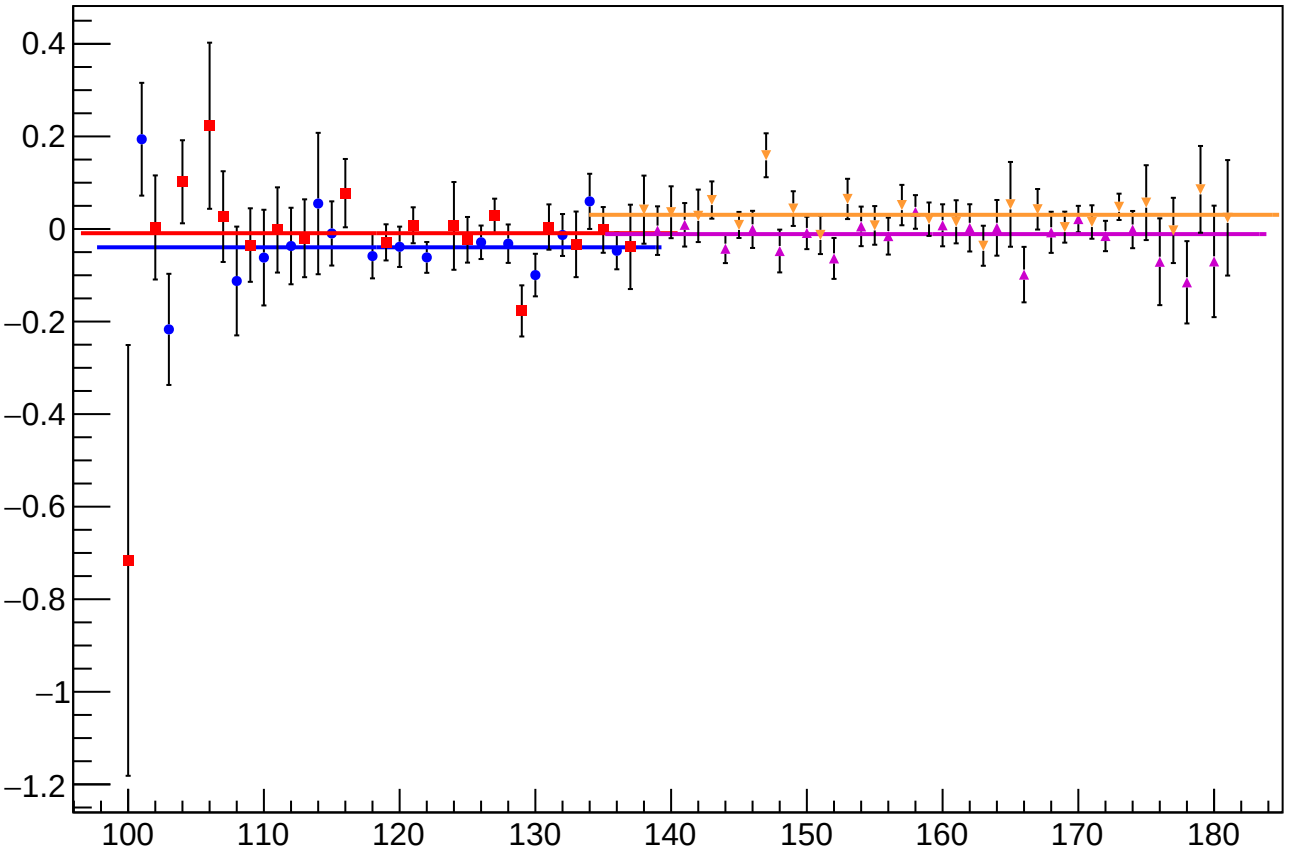
Left: 0.000+/-0.000 $\chi^2$/NDF: 2433003.3/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 4139315.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:3753628.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4955703.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8726792.9/78




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.031+/-0.009 $\chi^2$/NDF:15.6/22

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.011+/-0.009 $\chi^2$/NDF:11.1/20

Left: 0.010+/-0.007 $\chi^2$/NDF: 36.7/43

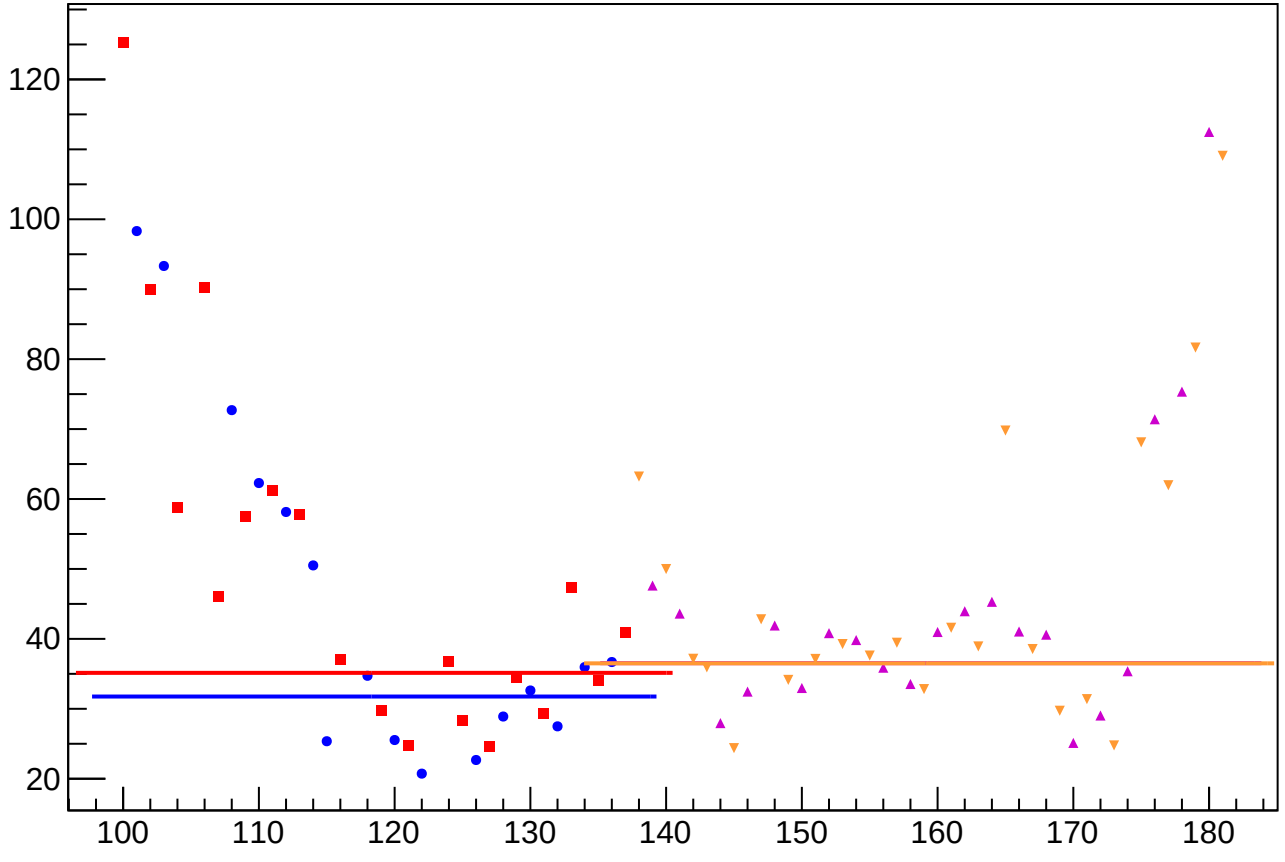
Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.021+/-0.008 $\chi^2$/NDF:26.6/36

Out: 0.019+/-0.008 $\chi^2$/NDF:39.4/41

All: -0.001+/-0.005 $\chi^2$/NDF: 79.3/78

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.755+/-0.009 $\chi^2$/NDF: 2252399.3/15

Left Out: 36.501+/-0.006 $\chi^2$/NDF:3303715.5/22

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844676.3/18

Left In: 36.527+/-0.007 $\chi^2$/NDF:2411127.3/20

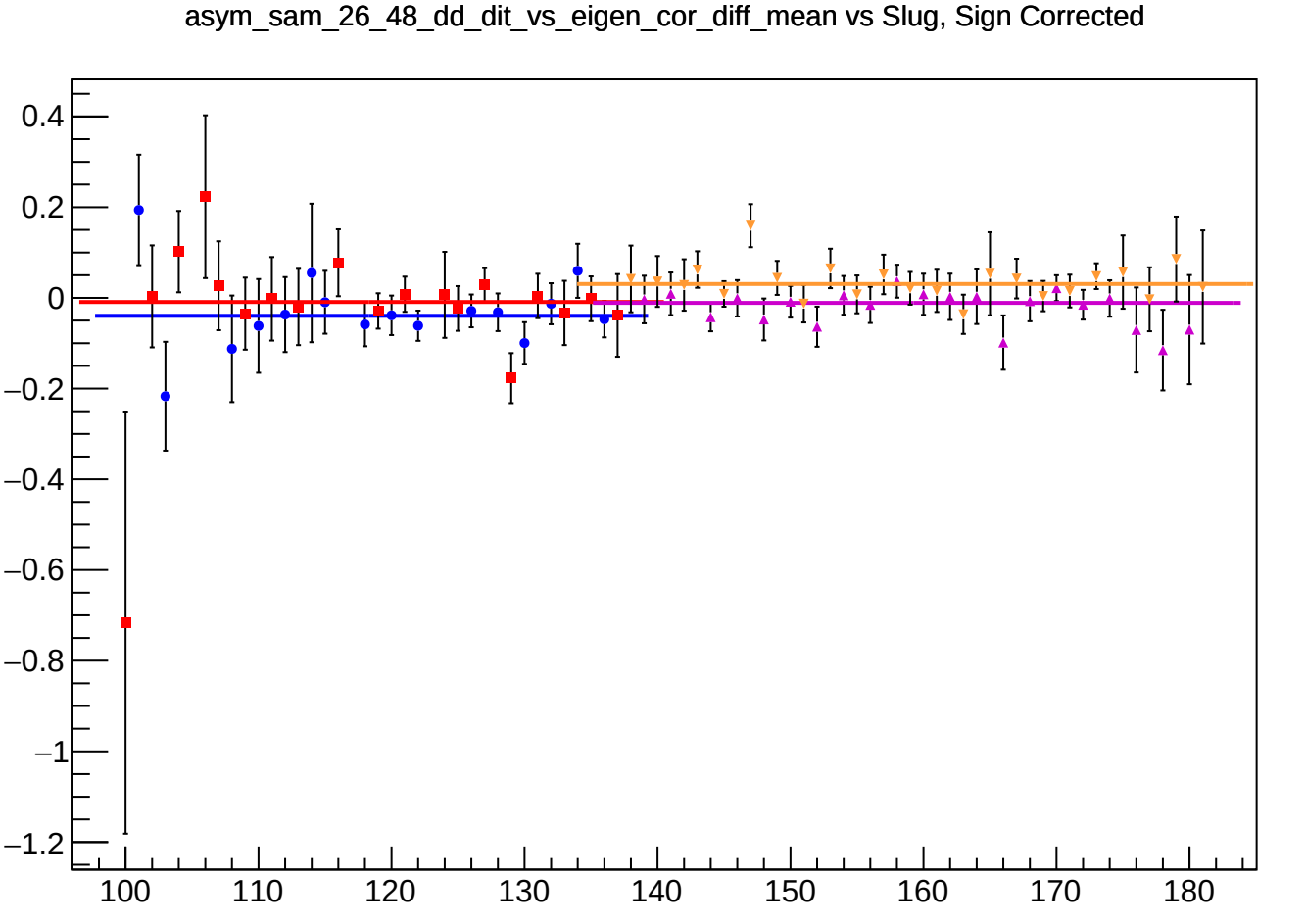
Left: 36.514+/-0.005 $\chi^2$/NDF: 5714850.4/43

Right: 33.323+/-0.007 $\chi^2$/NDF: 4158326.5/34

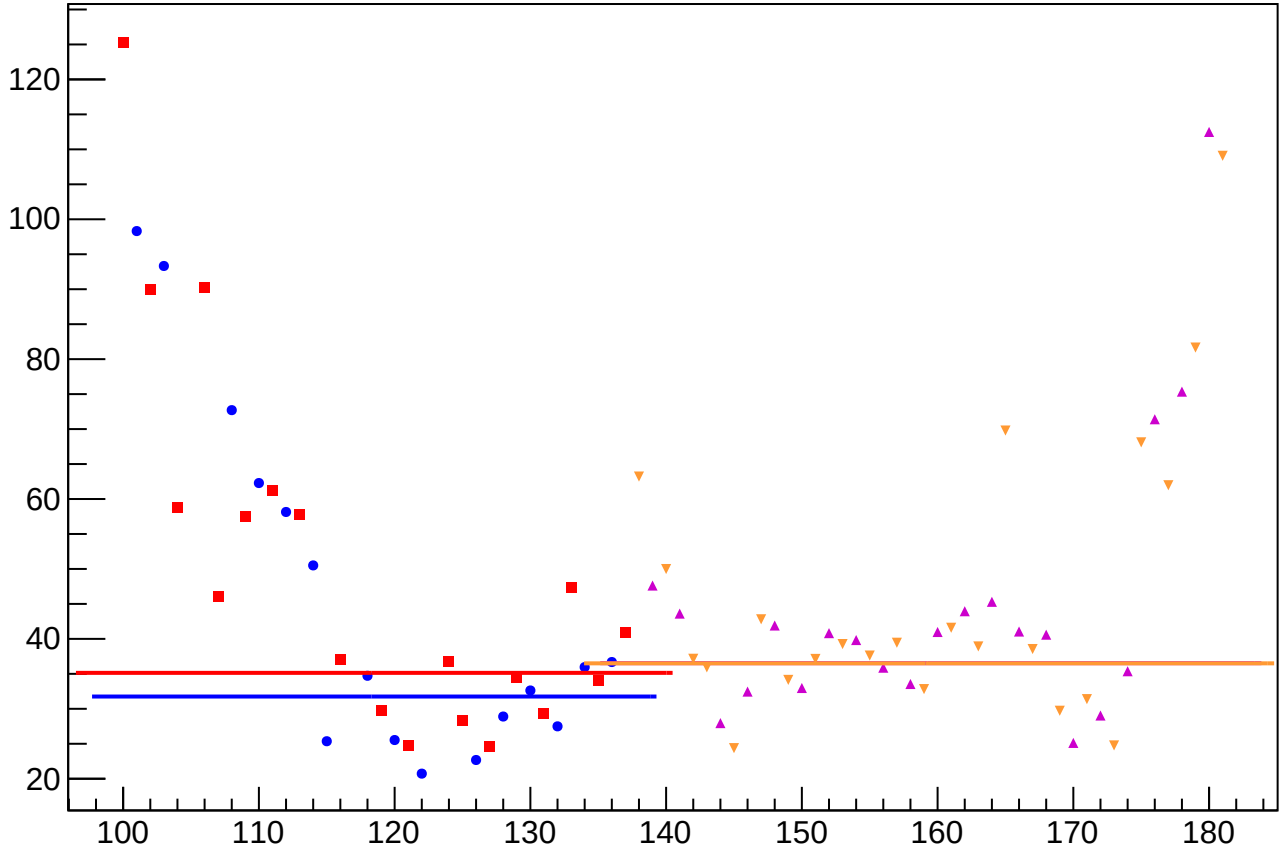
In: 34.905+/-0.005 $\chi^2$/NDF:4837042.3/36

Out: 36.099+/-0.005 $\chi^2$/NDF:5161407.8/41

All: 35.500+/-0.004 $\chi^2$/NDF: 10022561.0/78


asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
100
110
120
130
140
150
160
170
180
Right In: -0.040+/-0.013 χ²/NDF: 12.4/15
Left Out: 0.031+/-0.009 χ²/NDF:15.6/22
Right Out: -0.009+/-0.014 χ²/NDF: 18.3/18
Left In: -0.011+/-0.009 χ²/NDF:11.1/20
Left: 0.010+/-0.007 χ²/NDF: 36.7/43
Right: -0.025+/-0.010 χ²/NDF: 33.2/34
In: -0.021+/-0.008 χ²/NDF:26.6/36
Out: 0.019+/-0.008 χ²/NDF:39.4/41
All: -0.001+/-0.005 χ²/NDF: 79.3/78

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.755+/-0.009 $\chi^2$/NDF: 2252399.3/15

Left Out: 36.501+/-0.006 $\chi^2$/NDF:3303715.5/22

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844676.3/18

Left In: 36.527+/-0.007 $\chi^2$/NDF:2411127.3/20

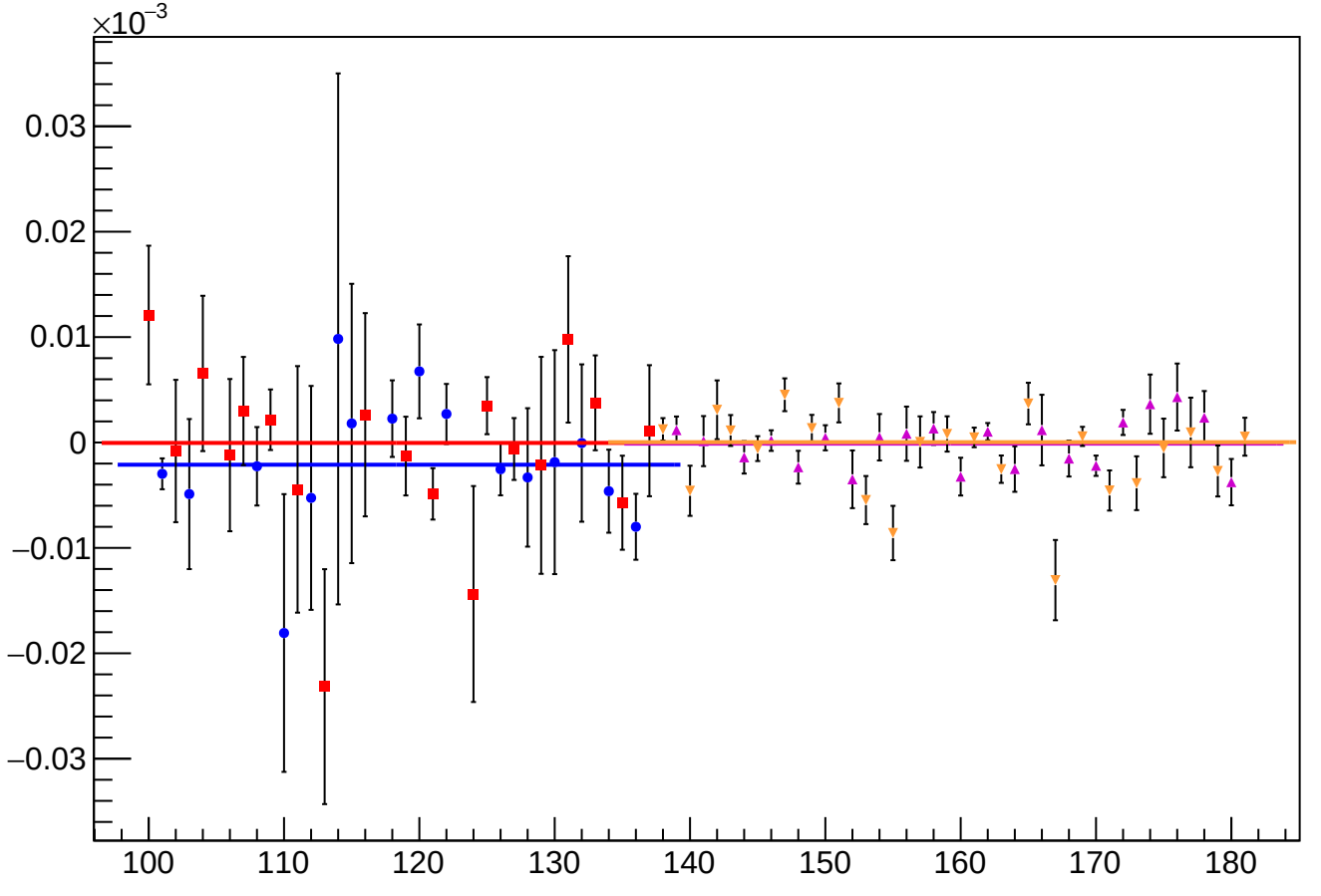
Left: 36.514+/-0.005 $\chi^2$/NDF: 5714850.4/43

Right: 33.323+/-0.007 $\chi^2$/NDF: 4158326.5/34

In: 34.905+/-0.005 $\chi^2$/NDF:4837042.3/36

Out: 36.099+/-0.005 $\chi^2$/NDF:5161407.8/41

All: 35.500+/-0.004 $\chi^2$/NDF: 10022561.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:67.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:28.8/20

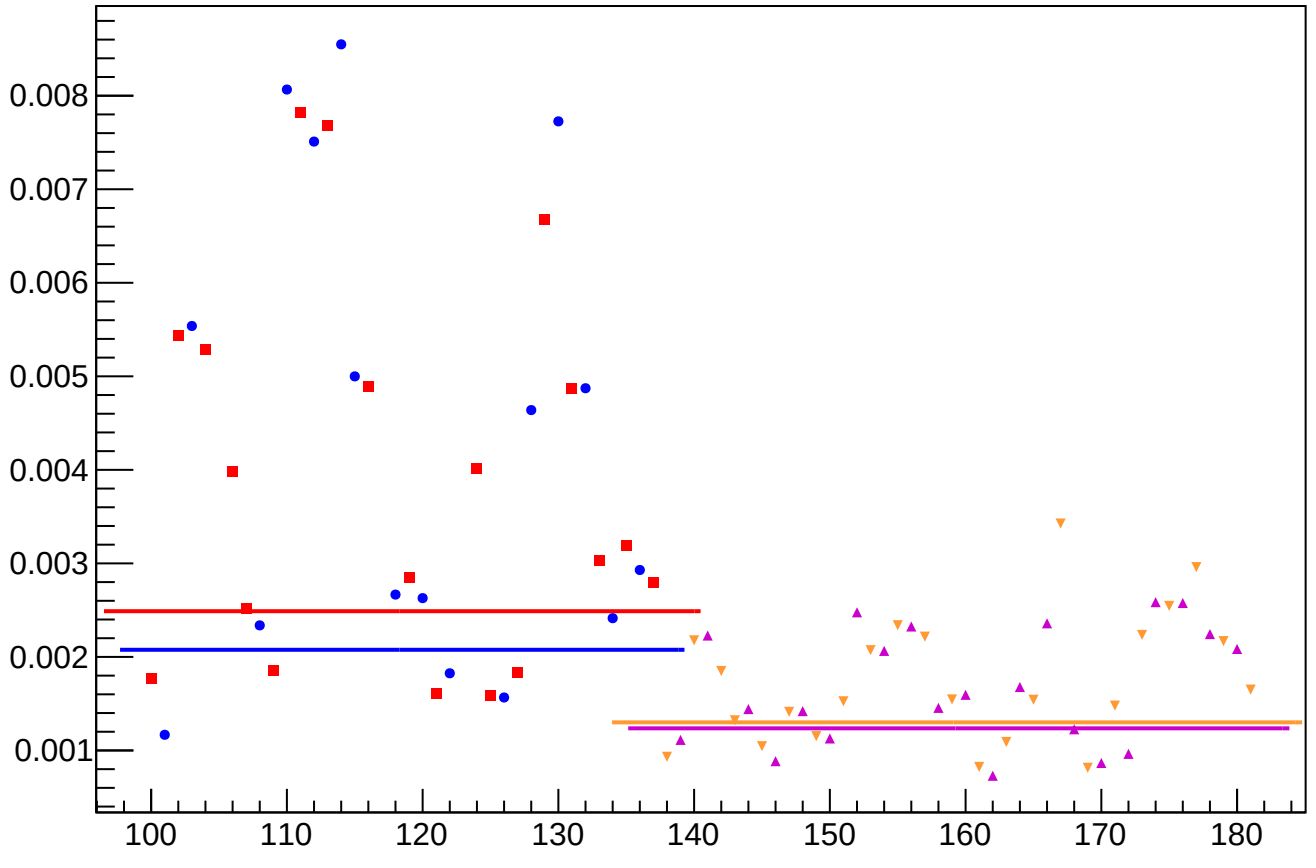
Left: -0.000+/-0.000 $\chi^2$/NDF: 96.1/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 38.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:47.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:88.6/41

All: -0.000+/-0.000 $\chi^2$/NDF: 137.0/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3916668.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:4960457.0/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3092230.7/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:4790510.5/20

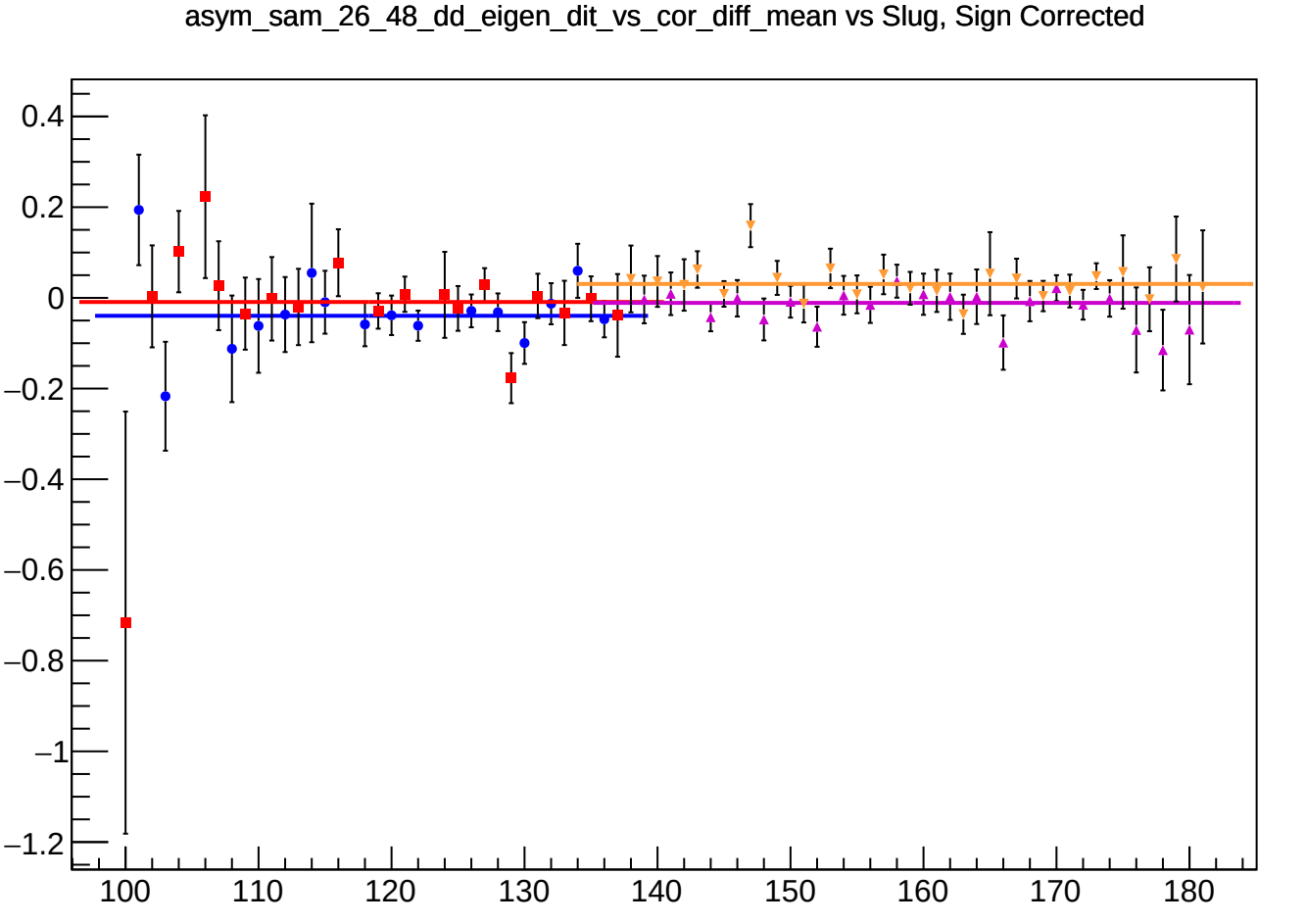
Left: 0.001+/-0.000 $\chi^2$/NDF: 9788045.6/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 7186793.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:10213401.8/36

Out: 0.001+/-0.000 $\chi^2$/NDF:10412245.6/41

All: 0.001+/-0.000 $\chi^2$/NDF: 20683730.0/78




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.031+/-0.009 $\chi^2$/NDF:15.6/22

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.011+/-0.009 $\chi^2$/NDF:11.1/20

Left: 0.010+/-0.007 $\chi^2$/NDF: 36.7/43

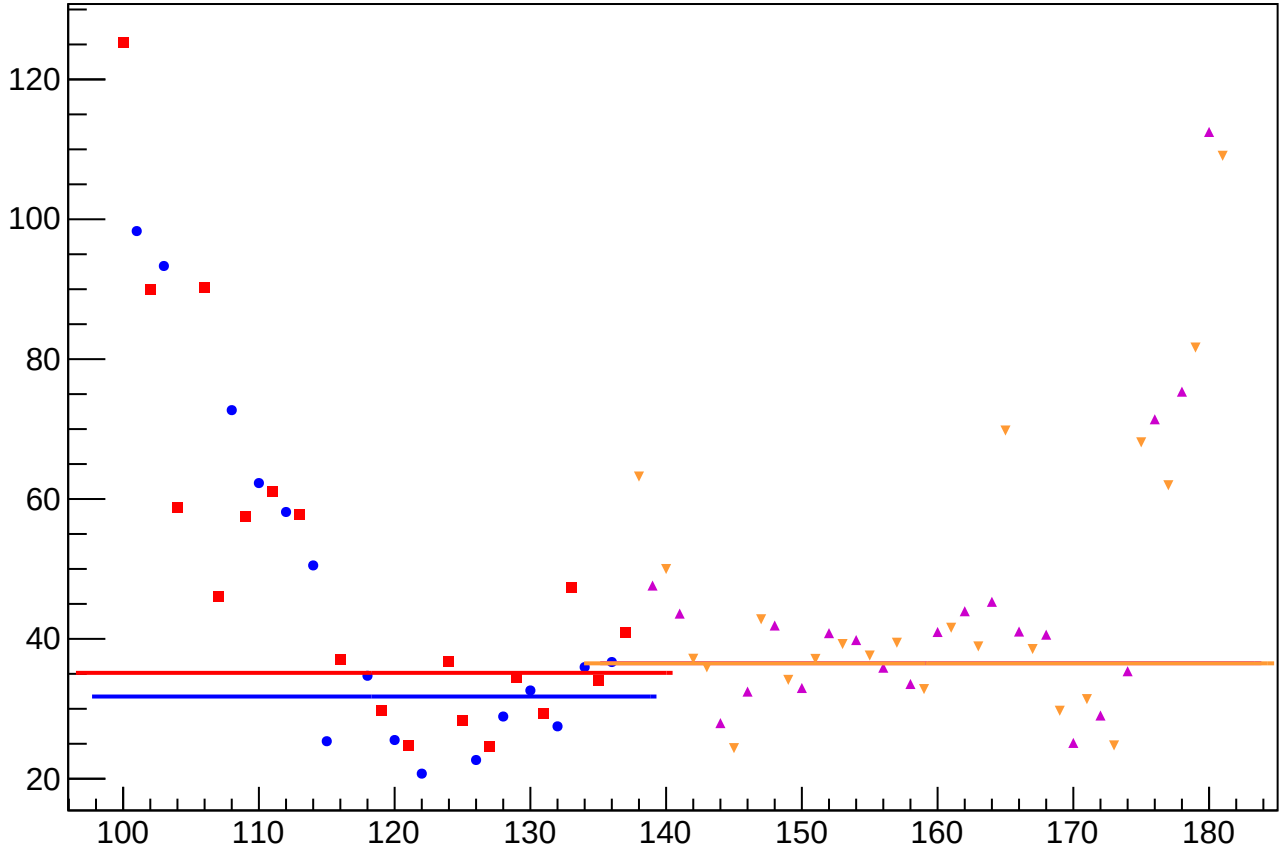
Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.021+/-0.008 $\chi^2$/NDF:26.6/36

Out: 0.019+/-0.008 $\chi^2$/NDF:39.4/41

All: -0.001+/-0.005 $\chi^2$/NDF: 79.3/78

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.756+/-0.009 $\chi^2$/NDF: 2252373.4/15

Left Out: 36.501+/-0.006 $\chi^2$/NDF:3303727.3/22

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844572.3/18

Left In: 36.527+/-0.007 $\chi^2$/NDF:2411092.7/20

Left: 36.513+/-0.005 $\chi^2$/NDF: 5714827.7/43

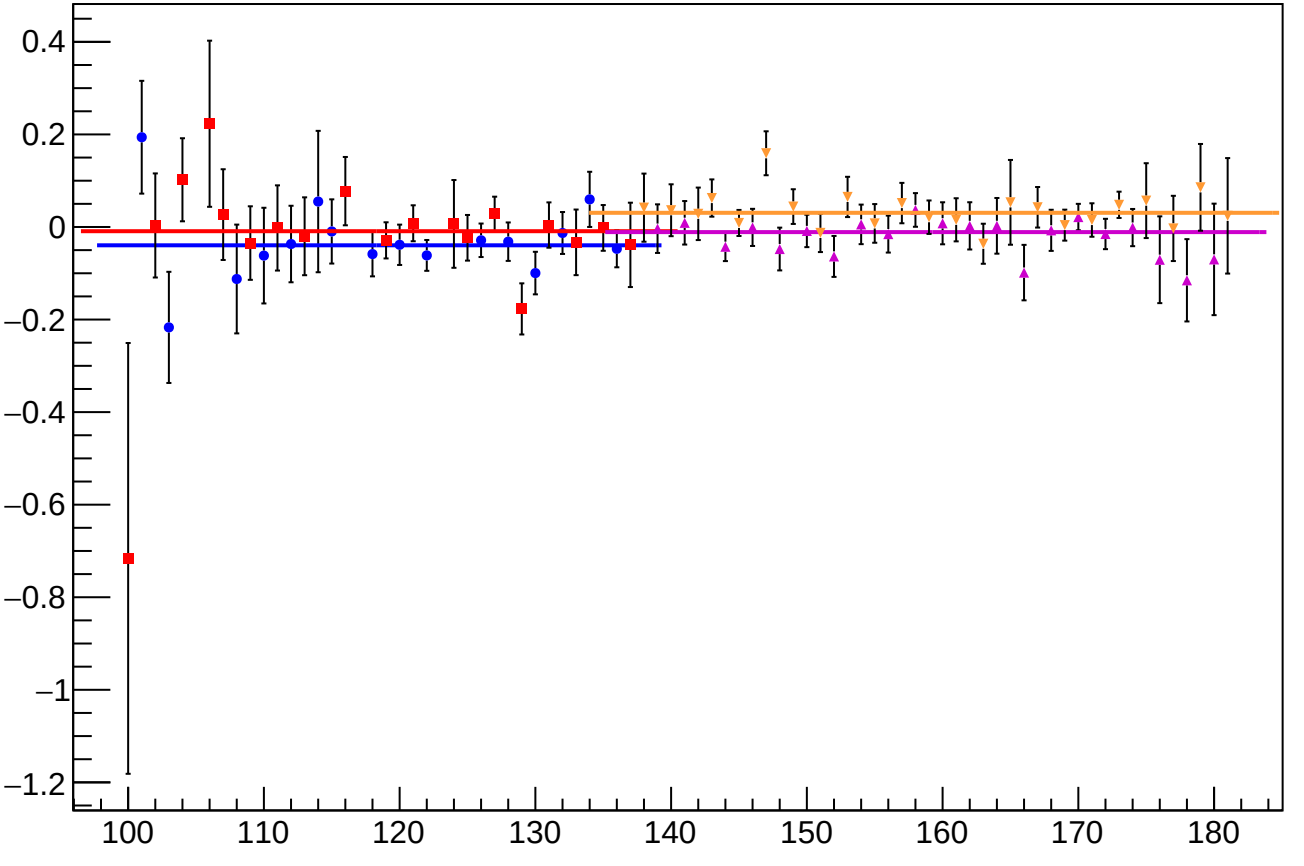
Right: 33.324+/-0.007 $\chi^2$/NDF: 4158199.3/34

In: 34.906+/-0.005 $\chi^2$/NDF:4836950.5/36

Out: 36.099+/-0.005 $\chi^2$/NDF:5161306.2/41

All: 35.500+/-0.004 $\chi^2$/NDF: 10022368.0/78

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.031+/-0.009 $\chi^2$/NDF:15.6/22

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.011+/-0.009 $\chi^2$/NDF:11.1/20

Left: 0.010+/-0.007 $\chi^2$/NDF: 36.7/43

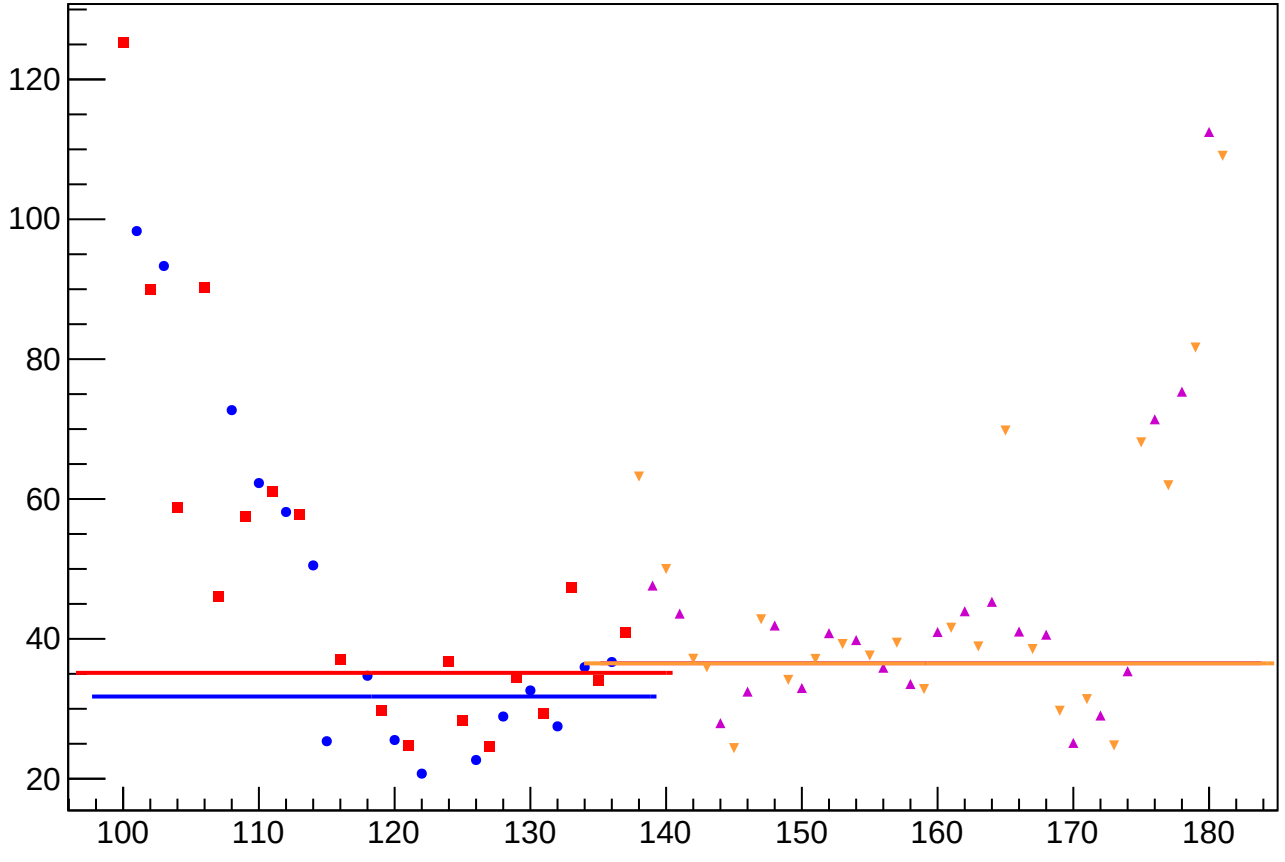
Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.021+/-0.008 $\chi^2$/NDF:26.6/36

Out: 0.019+/-0.008 $\chi^2$/NDF:39.4/41

All: -0.001+/-0.005 $\chi^2$/NDF: 79.3/78

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.756+/-0.009 $\chi^2$/NDF: 2252373.4/15

Left Out: 36.501+/-0.006 $\chi^2$/NDF:3303727.3/22

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844572.3/18

Left In: 36.527+/-0.007 $\chi^2$/NDF:2411092.7/20

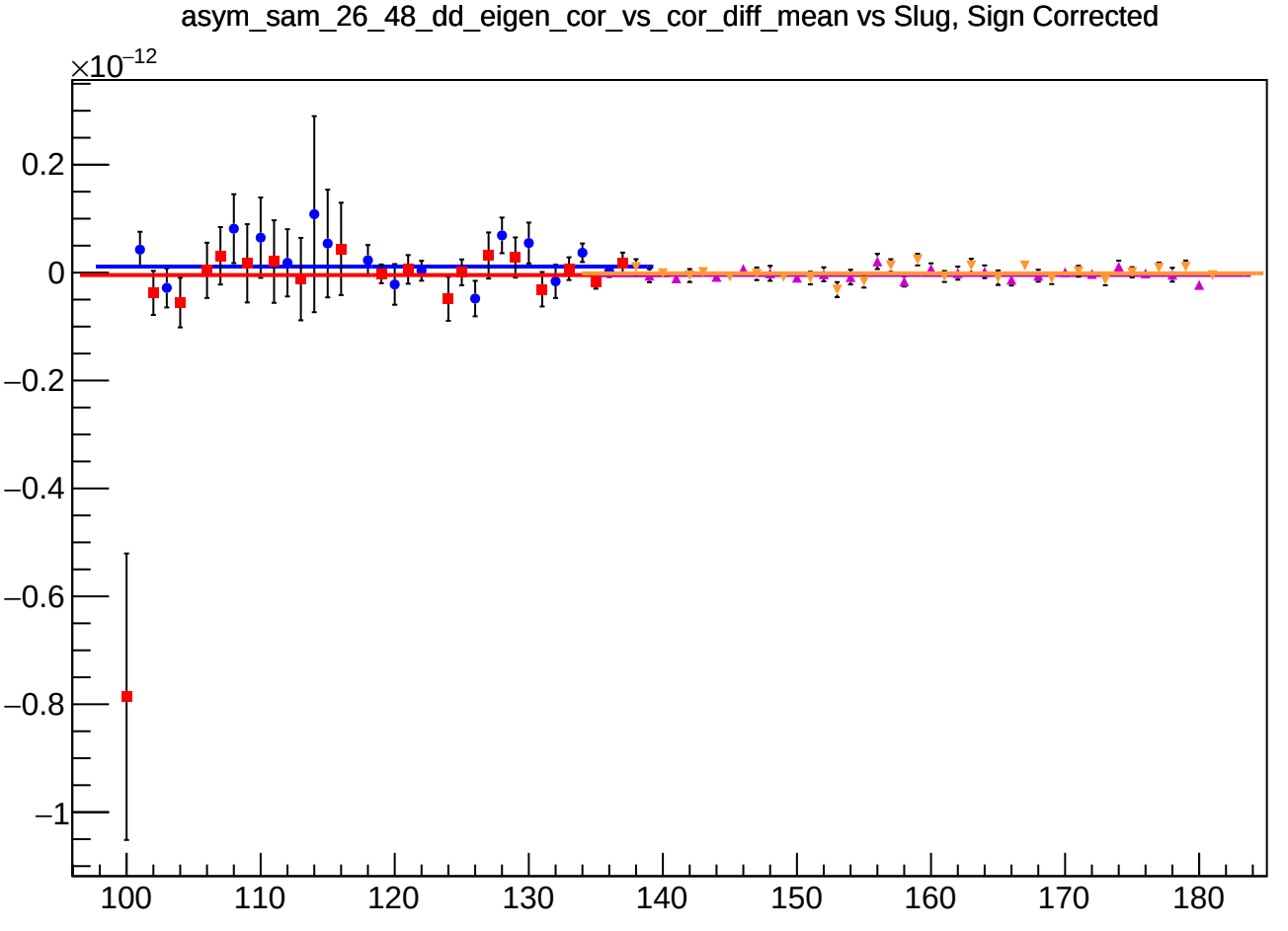
Left: 36.513+/-0.005 $\chi^2$/NDF: 5714827.7/43

Right: 33.324+/-0.007 $\chi^2$/NDF: 4158199.3/34

In: 34.906+/-0.005 $\chi^2$/NDF:4836950.5/36

Out: 36.099+/-0.005 $\chi^2$/NDF:5161306.2/41

All: 35.500+/-0.004 $\chi^2$/NDF: 10022368.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:25.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.9/20

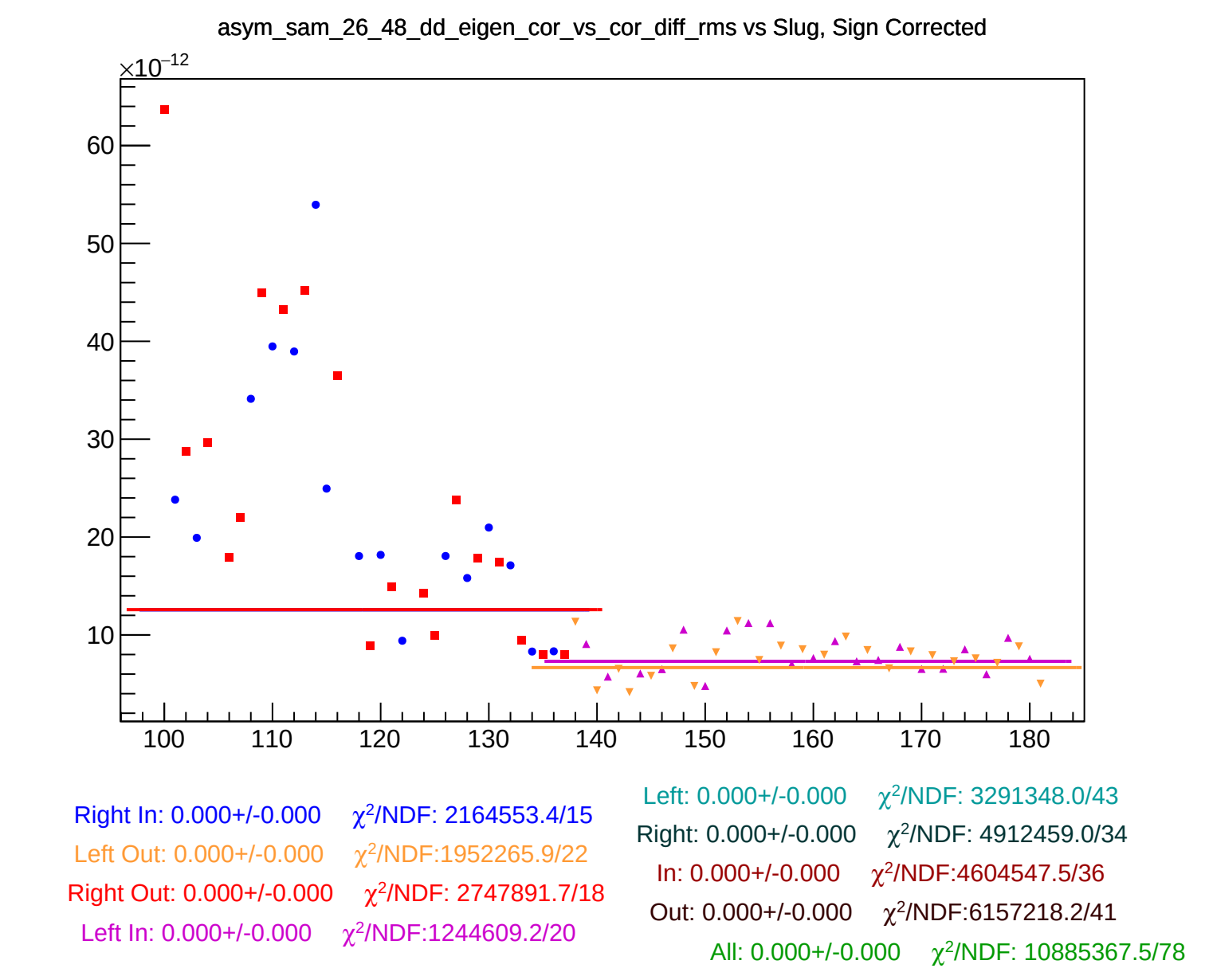
Left: -0.000+/-0.000 $\chi^2$/NDF: 43.9/43

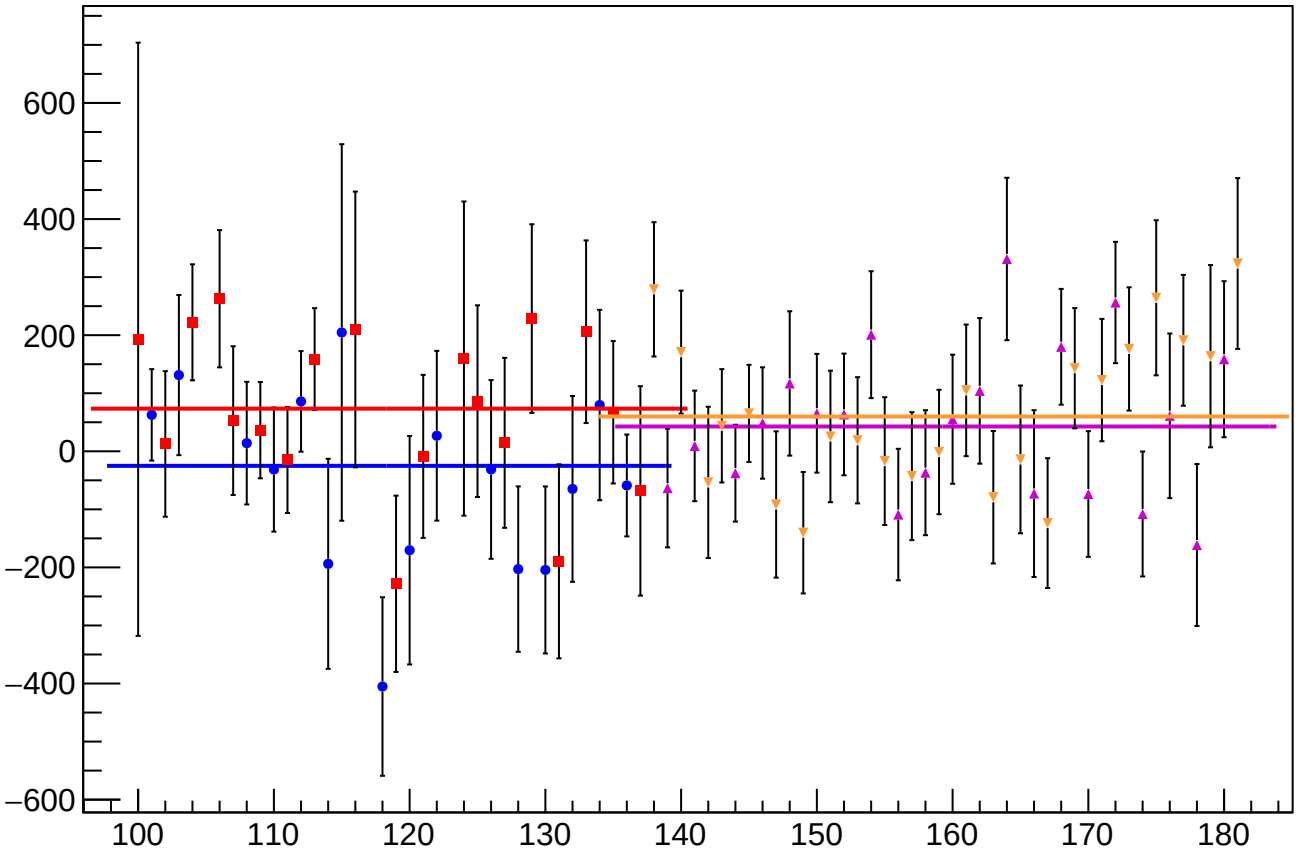
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:39.1/36

Out: -0.000+/-0.000 $\chi^2$/NDF:43.5/41

All: -0.000+/-0.000 $\chi^2$/NDF: 82.8/78


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2164553.4/15
Left Out: 0.000+/-0.000 χ²/NDF:1952265.9/22
Right Out: 0.000+/-0.000 χ²/NDF: 2747891.7/18
Left In: 0.000+/-0.000 χ²/NDF:1244609.2/20
Left: 0.000+/-0.000 χ²/NDF: 3291348.0/43
Right: 0.000+/-0.000 χ²/NDF: 4912459.0/34
In: 0.000+/-0.000 χ²/NDF:4604547.5/36
Out: 0.000+/-0.000 χ²/NDF:6157218.2/41
All: 0.000+/-0.000 χ²/NDF: 10885367.5/78




Right In: -25.072+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 59.931+/-23.381 $\chi^2$/NDF:26.7/22

Right Out: 73.458+/-29.935 $\chi^2$/NDF: 16.8/18

Left In: 42.708+/-24.095 $\chi^2$/NDF:24.3/20

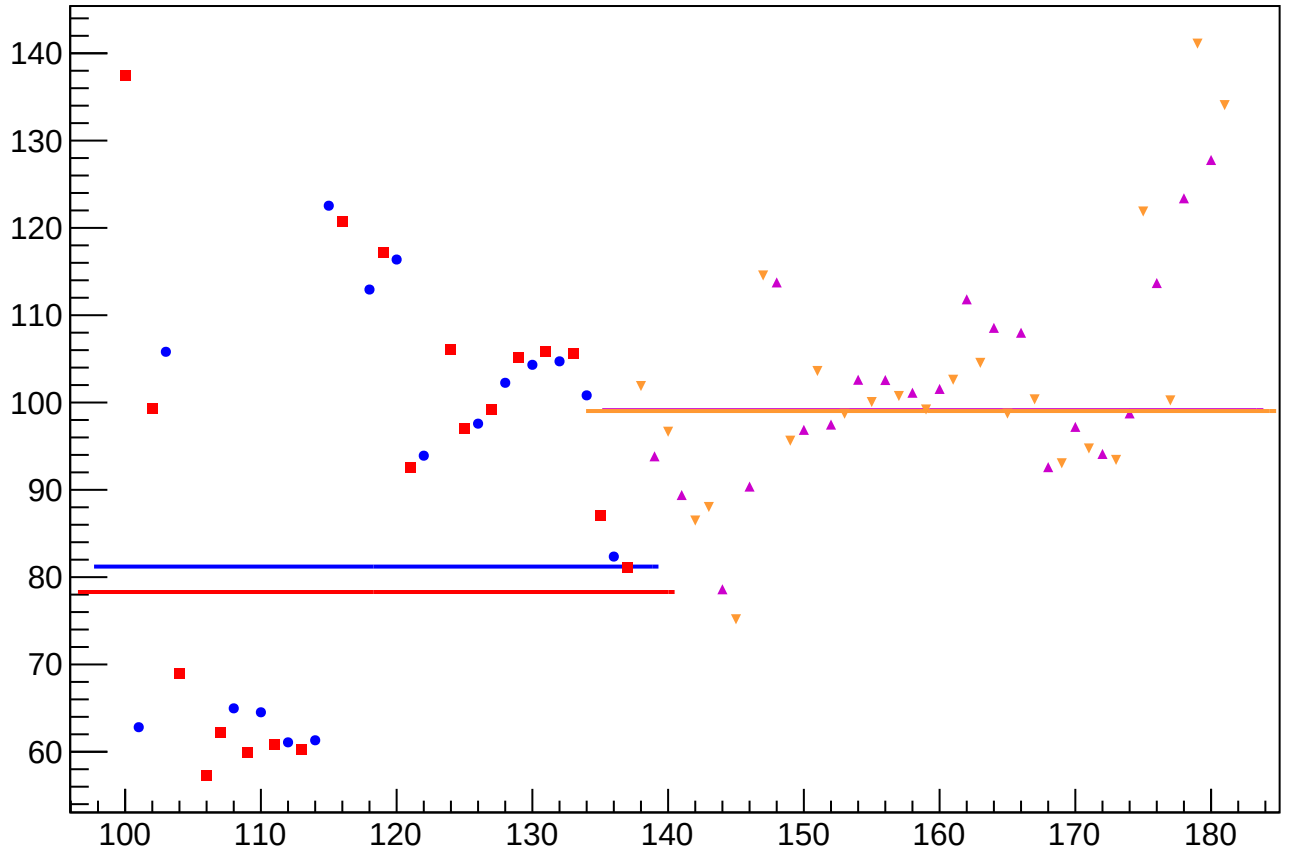
Left: 51.579+/-16.780 $\chi^2$/NDF: 51.2/43

Right: 26.278+/-21.610 $\chi^2$/NDF: 38.2/34

In: 17.417+/-19.077 $\chi^2$/NDF:43.4/36

Out: 65.056+/-18.427 $\chi^2$/NDF:43.6/41

All: 42.062+/-13.253 $\chi^2$/NDF: 90.3/78




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787676.9/15

Left Out: 99.026+/-0.017 $\chi^2$/NDF:583150.4/22

Right Out: 78.298+/-0.021 $\chi^2$/NDF: 934673.9/18

Left In: 99.126+/-0.017 $\chi^2$/NDF:422162.3/20

Left: 99.074+/-0.012 $\chi^2$/NDF: 1005330.6/43

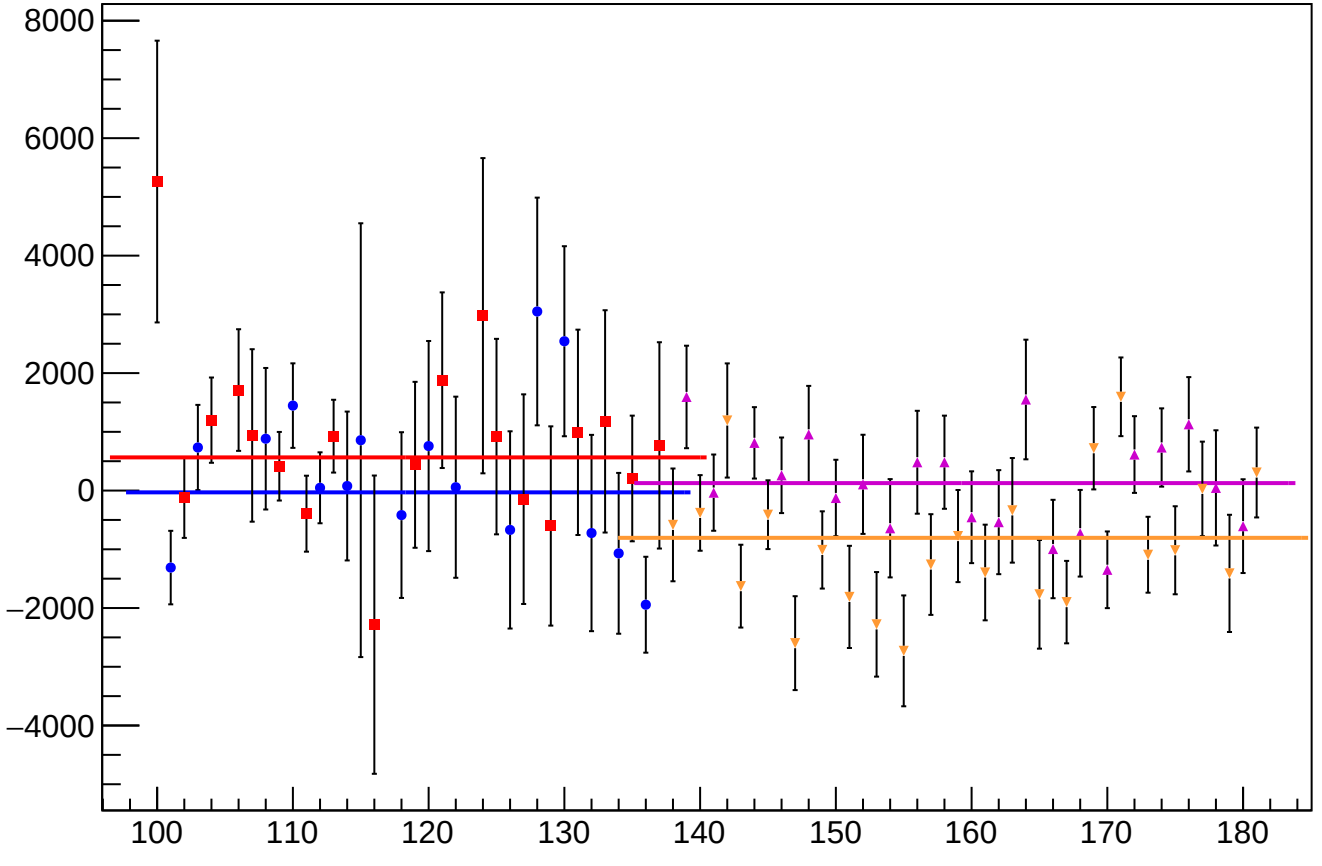
Right: 79.692+/-0.015 $\chi^2$/NDF: 1731411.2/34

In: 92.441+/-0.013 $\chi^2$/NDF:1622479.4/36

Out: 91.172+/-0.013 $\chi^2$/NDF:2113405.5/41

All: 91.784+/-0.009 $\chi^2$/NDF: 3740463.1/78

asym_sam_1548_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -30.407+/-256.999 $\chi^2$/NDF: 21.9/15

Left Out: -804.851+/-160.709 $\chi^2$/NDF:45.9/22

Right Out: 564.890+/-238.492 $\chi^2$/NDF: 13.3/18

Left In: 127.149+/-165.291 $\chi^2$/NDF:21.7/20

Left: -351.946+/-115.224 $\chi^2$/NDF: 83.9/43

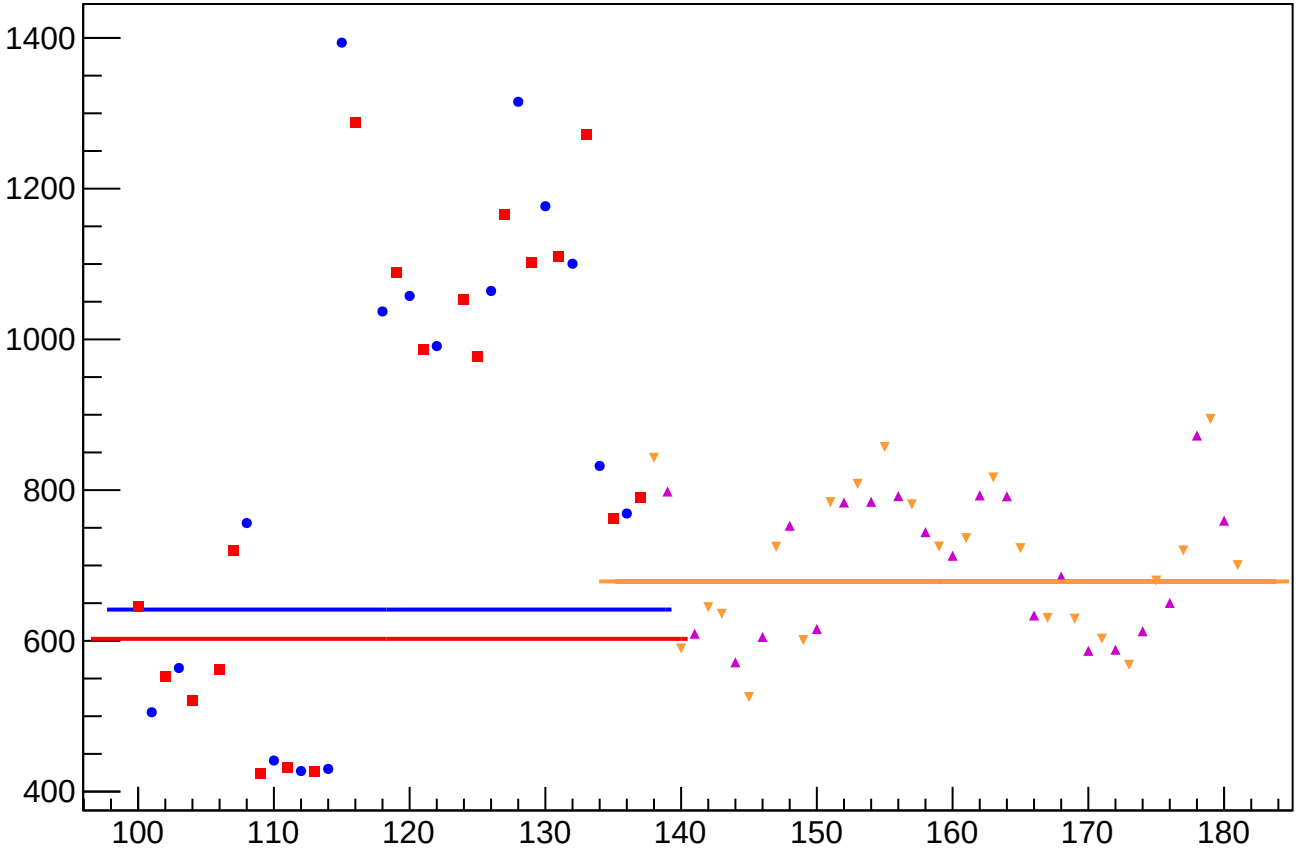
Right: 289.446+/-174.816 $\chi^2$/NDF: 38.1/34

In: 81.046+/-139.020 $\chi^2$/NDF:43.8/36

Out: -377.106+/-133.274 $\chi^2$/NDF:81.9/41

All: -157.693+/-96.206 $\chi^2$/NDF: 131.4/78

asym_sam_1548_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 641.499+/-0.182 $\chi^2$/NDF: 1874990.8/15

Left Out: 678.819+/-0.114 $\chi^2$/NDF:723249.9/22

Right Out: 602.654+/-0.169 $\chi^2$/NDF: 2070307.7/18

Left In: 678.757+/-0.117 $\chi^2$/NDF:559599.2/20

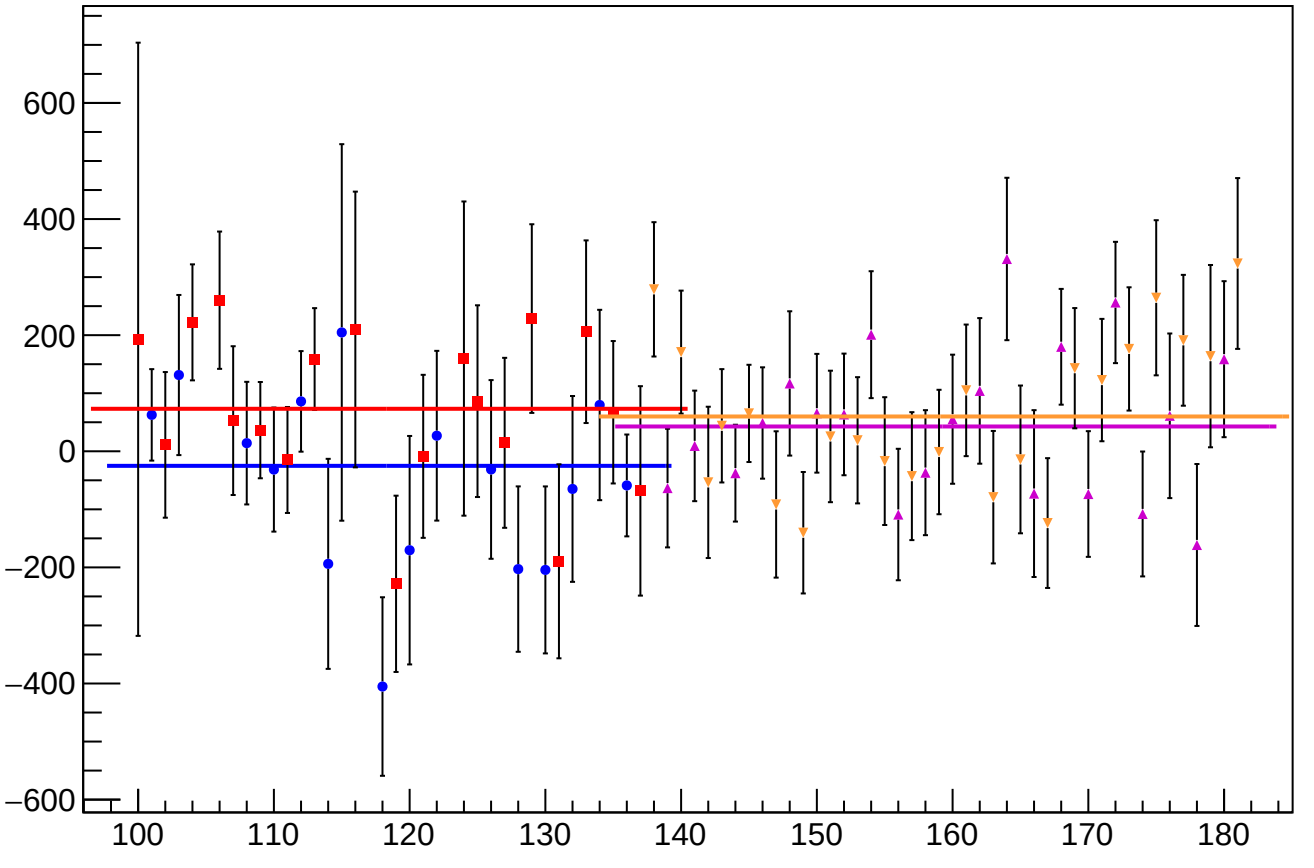
Left: 678.789+/-0.081 $\chi^2$/NDF: 1282849.2/43

Right: 620.627+/-0.124 $\chi^2$/NDF: 3969848.5/34

In: 667.855+/-0.098 $\chi^2$/NDF:2464325.1/36

Out: 655.034+/-0.094 $\chi^2$/NDF:2933842.7/41

All: 661.174+/-0.068 $\chi^2$/NDF: 5407030.9/78




Right In: -25.075+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 59.936+/-23.381 $\chi^2$/NDF:26.7/22

Right Out: 73.193+/-29.937 $\chi^2$/NDF: 16.7/18

Left In: 42.709+/-24.095 $\chi^2$/NDF:24.3/20

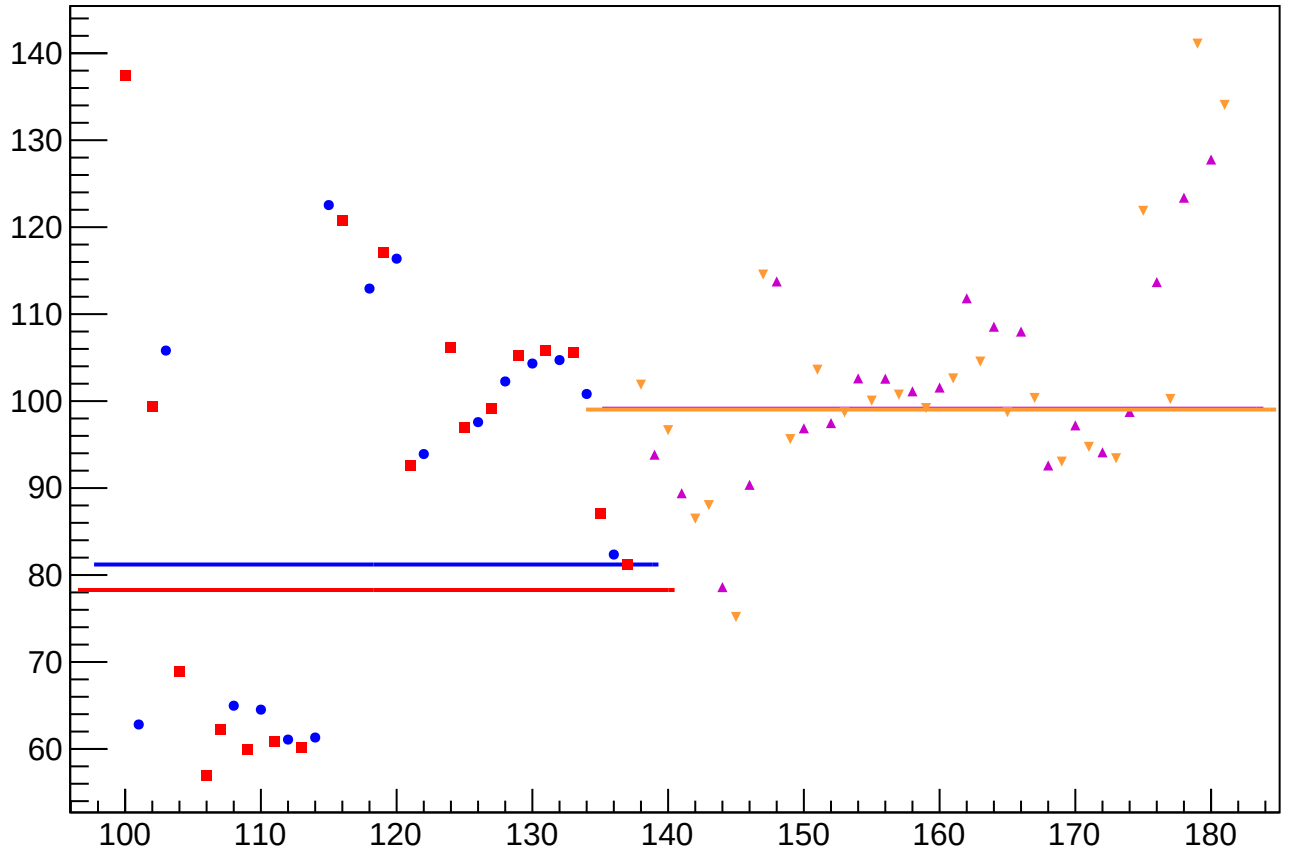
Left: 51.581+/-16.780 $\chi^2$/NDF: 51.2/43

Right: 26.135+/-21.611 $\chi^2$/NDF: 38.1/34

In: 17.416+/-19.077 $\chi^2$/NDF:43.4/36

Out: 64.959+/-18.427 $\chi^2$/NDF:43.6/41

All: 42.011+/-13.254 $\chi^2$/NDF: 90.2/78




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787679.3/15

Left Out: 99.026+/-0.017 $\chi^2$/NDF:583150.5/22

Right Out: 78.279+/-0.021 $\chi^2$/NDF: 936812.2/18

Left In: 99.126+/-0.017 $\chi^2$/NDF:422162.4/20

Left: 99.074+/-0.012 $\chi^2$/NDF: 1005330.7/43

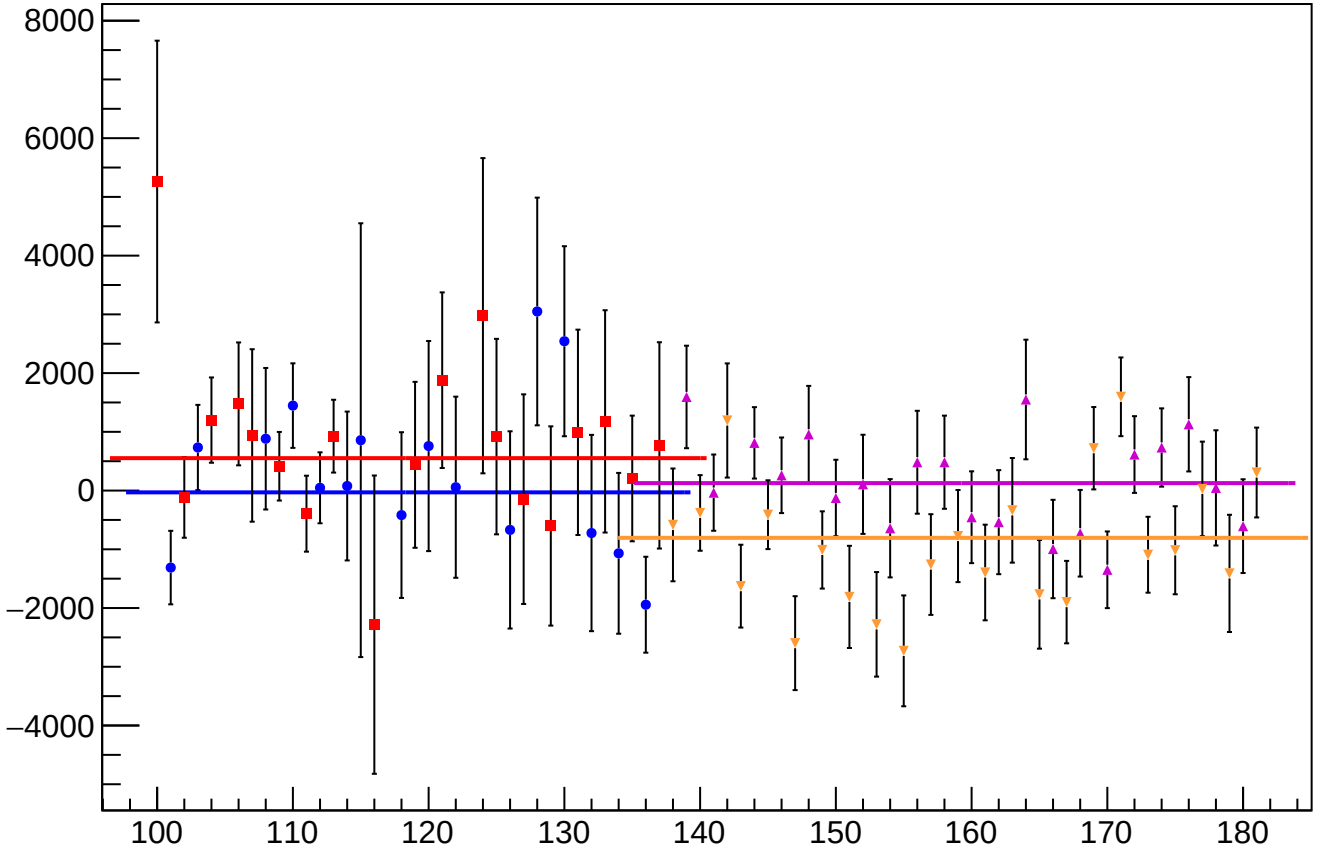
Right: 79.683+/-0.015 $\chi^2$/NDF: 1733667.8/34

In: 92.441+/-0.013 $\chi^2$/NDF:1622480.9/36

Out: 91.165+/-0.013 $\chi^2$/NDF:2116570.3/41

All: 91.781+/-0.009 $\chi^2$/NDF: 3743676.1/78

asym_sam_1548_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -30.434+/-257.002 $\chi^2$/NDF: 21.9/15

Left Out: -804.845+/-160.709 $\chi^2$/NDF:45.9/22

Right Out: 551.948+/-238.640 $\chi^2$/NDF: 12.8/18

Left In: 127.148+/-165.291 $\chi^2$/NDF:21.7/20

Left: -351.943+/-115.224 $\chi^2$/NDF: 83.9/43

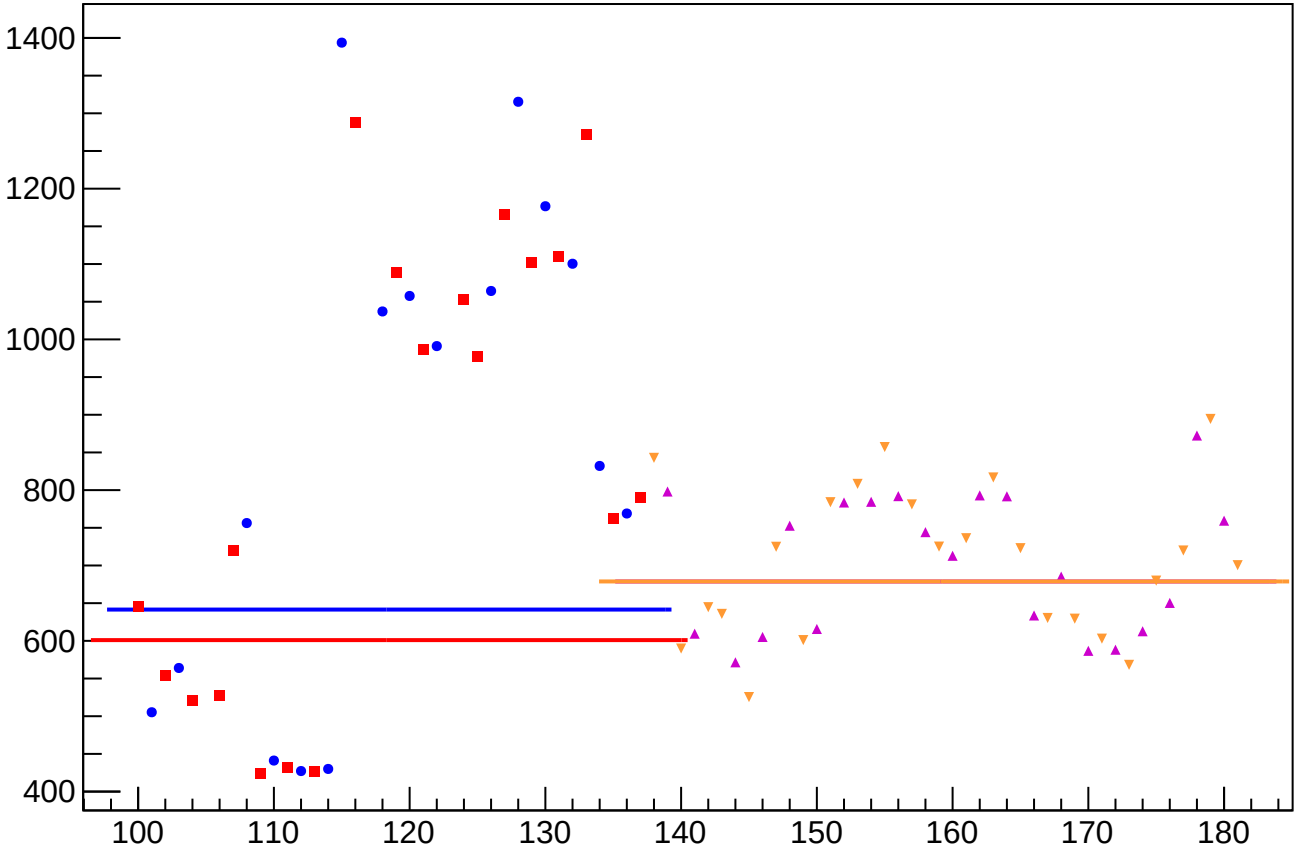
Right: 282.303+/-174.876 $\chi^2$/NDF: 37.4/34

In: 81.039+/-139.021 $\chi^2$/NDF:43.8/36

Out: -381.505+/-133.300 $\chi^2$/NDF:81.0/41

All: -159.945+/-96.216 $\chi^2$/NDF: 130.5/78

asym_sam_1548_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 641.507+/-0.182 $\chi^2$/NDF: 1874950.0/15

Left Out: 678.819+/-0.114 $\chi^2$/NDF:723249.7/22

Right Out: 600.975+/-0.169 $\chi^2$/NDF: 2077232.5/18

Left In: 678.757+/-0.117 $\chi^2$/NDF:559600.3/20

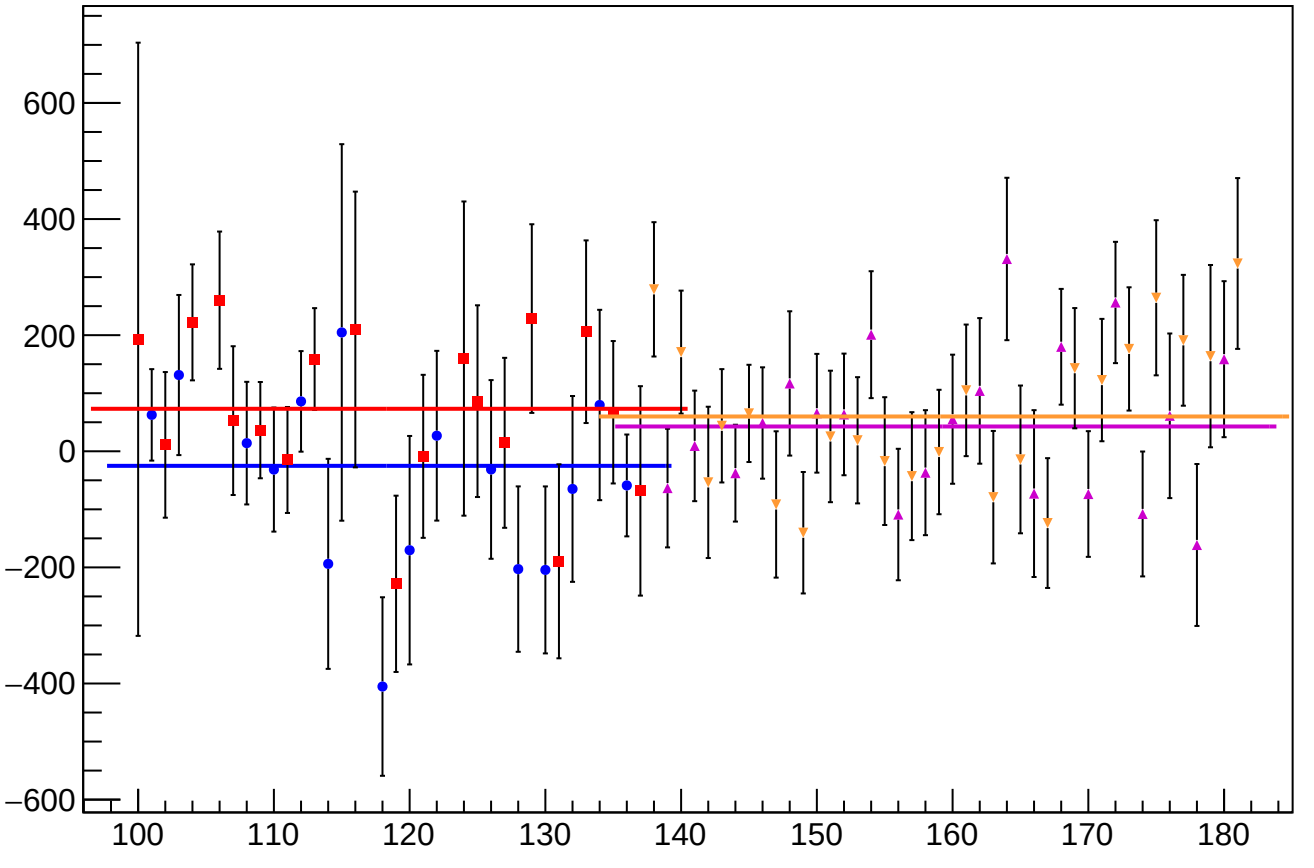
Left: 678.789+/-0.081 $\chi^2$/NDF: 1282850.2/43

Right: 619.742+/-0.124 $\chi^2$/NDF: 3978895.7/34

In: 667.857+/-0.098 $\chi^2$/NDF:2464270.7/36

Out: 654.531+/-0.094 $\chi^2$/NDF:2946892.2/41

All: 660.914+/-0.068 $\chi^2$/NDF: 5420738.0/78




Right In: -25.075+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 59.936+/-23.381 $\chi^2$/NDF:26.7/22

Right Out: 73.193+/-29.937 $\chi^2$/NDF: 16.7/18

Left In: 42.709+/-24.095 $\chi^2$/NDF:24.3/20

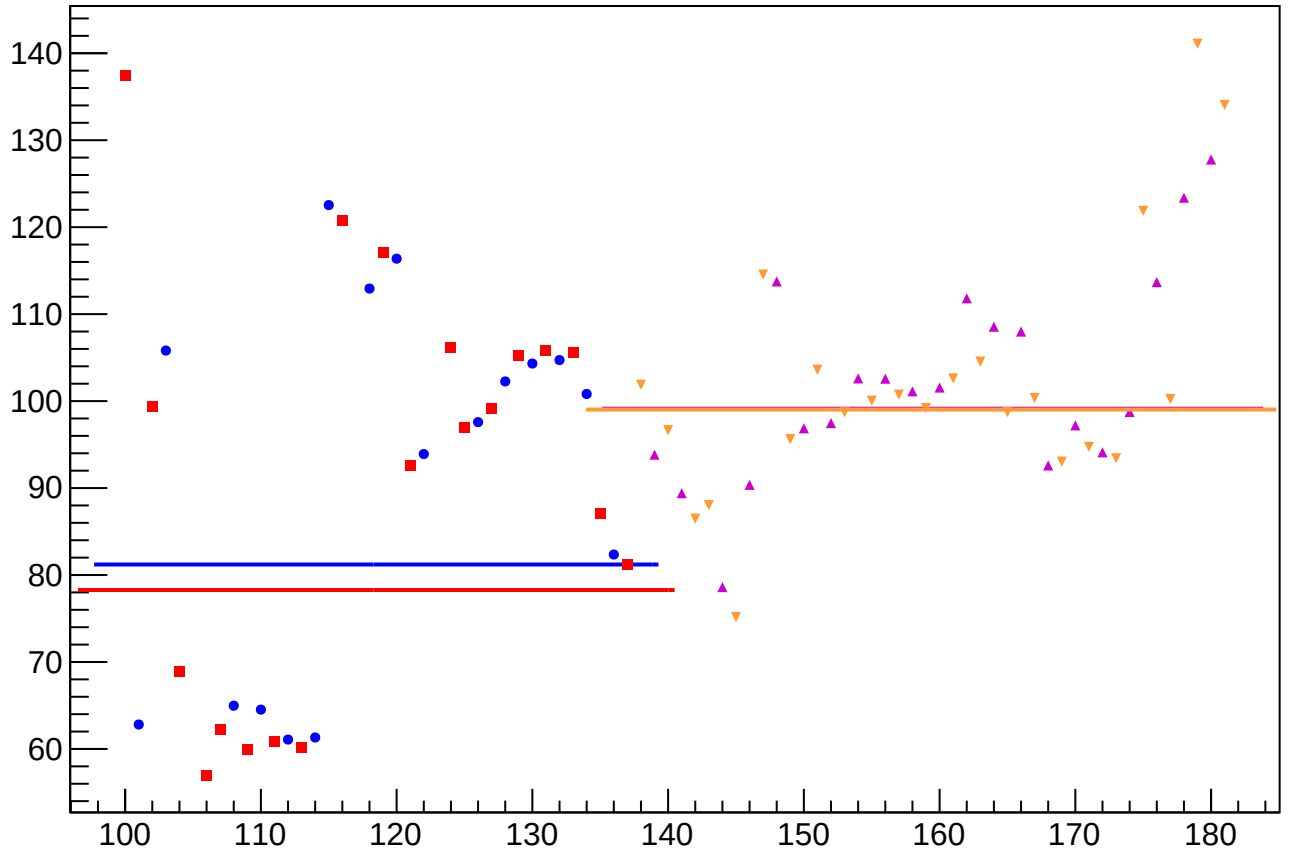
Left: 51.581+/-16.780 $\chi^2$/NDF: 51.2/43

Right: 26.135+/-21.611 $\chi^2$/NDF: 38.1/34

In: 17.416+/-19.077 $\chi^2$/NDF:43.4/36

Out: 64.959+/-18.427 $\chi^2$/NDF:43.6/41

All: 42.011+/-13.254 $\chi^2$/NDF: 90.2/78




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787679.3/15

Left Out: 99.026+/-0.017 $\chi^2$/NDF:583150.5/22

Right Out: 78.279+/-0.021 $\chi^2$/NDF: 936812.2/18

Left In: 99.126+/-0.017 $\chi^2$/NDF:422162.4/20

Left: 99.074+/-0.012 $\chi^2$/NDF: 1005330.7/43

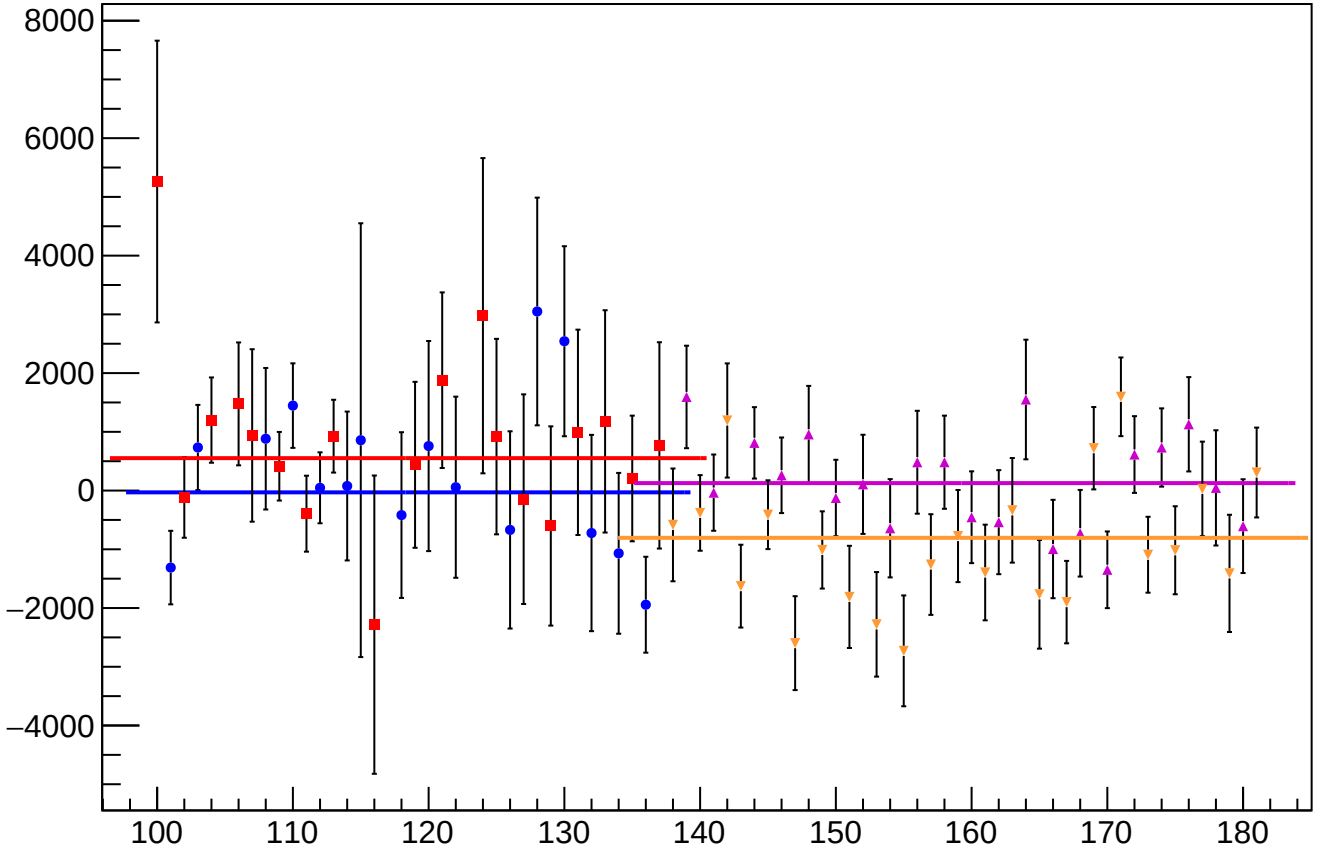
Right: 79.683+/-0.015 $\chi^2$/NDF: 1733667.8/34

In: 92.441+/-0.013 $\chi^2$/NDF:1622480.9/36

Out: 91.165+/-0.013 $\chi^2$/NDF:2116570.3/41

All: 91.781+/-0.009 $\chi^2$/NDF: 3743676.1/78

asym_sam_1548_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -30.434+/-257.002 $\chi^2$/NDF: 21.9/15

Left Out: -804.845+/-160.709 $\chi^2$/NDF:45.9/22

Right Out: 551.948+/-238.640 $\chi^2$/NDF: 12.8/18

Left In: 127.148+/-165.291 $\chi^2$/NDF:21.7/20

Left: -351.943+/-115.224 $\chi^2$/NDF: 83.9/43

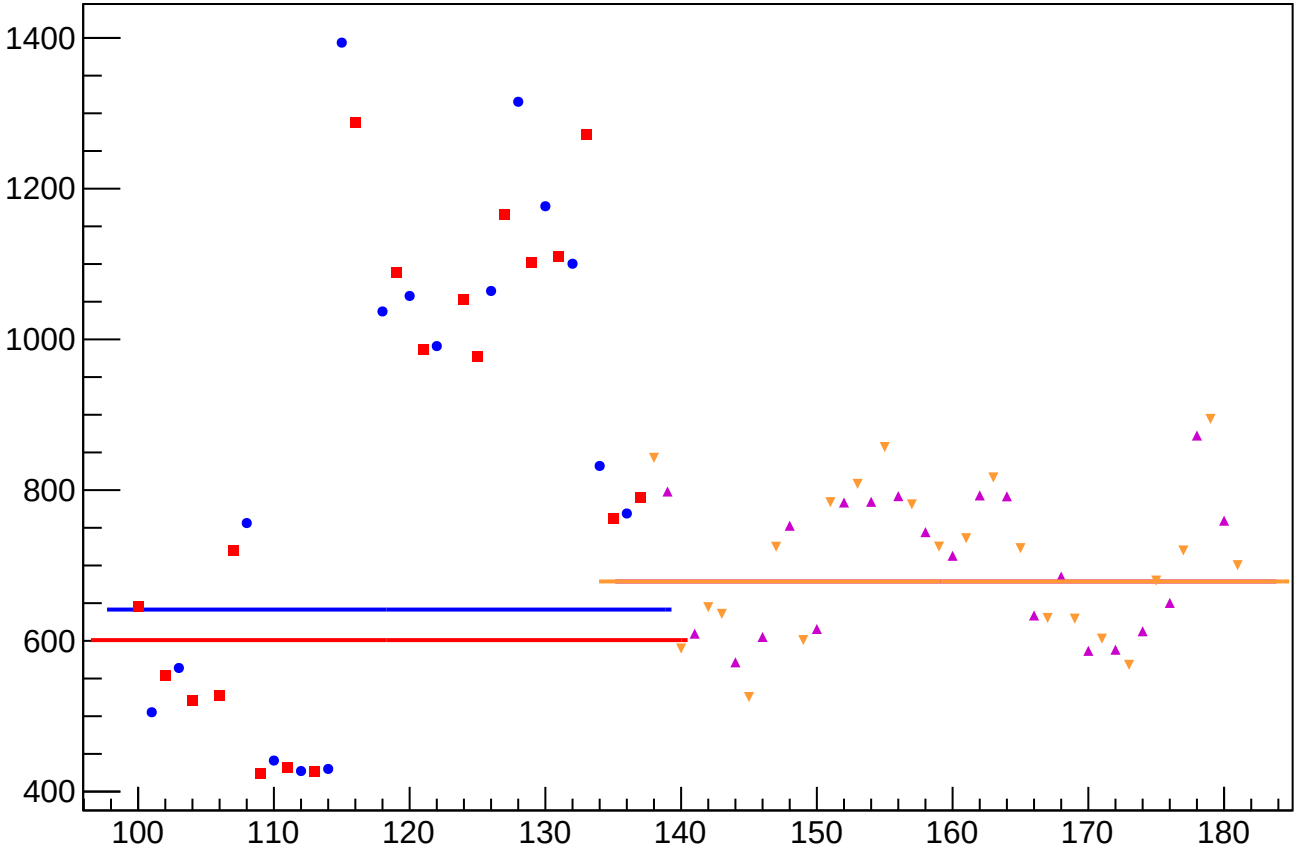
Right: 282.303+/-174.876 $\chi^2$/NDF: 37.4/34

In: 81.039+/-139.021 $\chi^2$/NDF:43.8/36

Out: -381.505+/-133.300 $\chi^2$/NDF:81.0/41

All: -159.945+/-96.216 $\chi^2$/NDF: 130.5/78

asym_sam_1548_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 641.507+/-0.182 $\chi^2$/NDF: 1874950.0/15

Left Out: 678.819+/-0.114 $\chi^2$/NDF:723249.7/22

Right Out: 600.975+/-0.169 $\chi^2$/NDF: 2077232.5/18

Left In: 678.757+/-0.117 $\chi^2$/NDF:559600.3/20

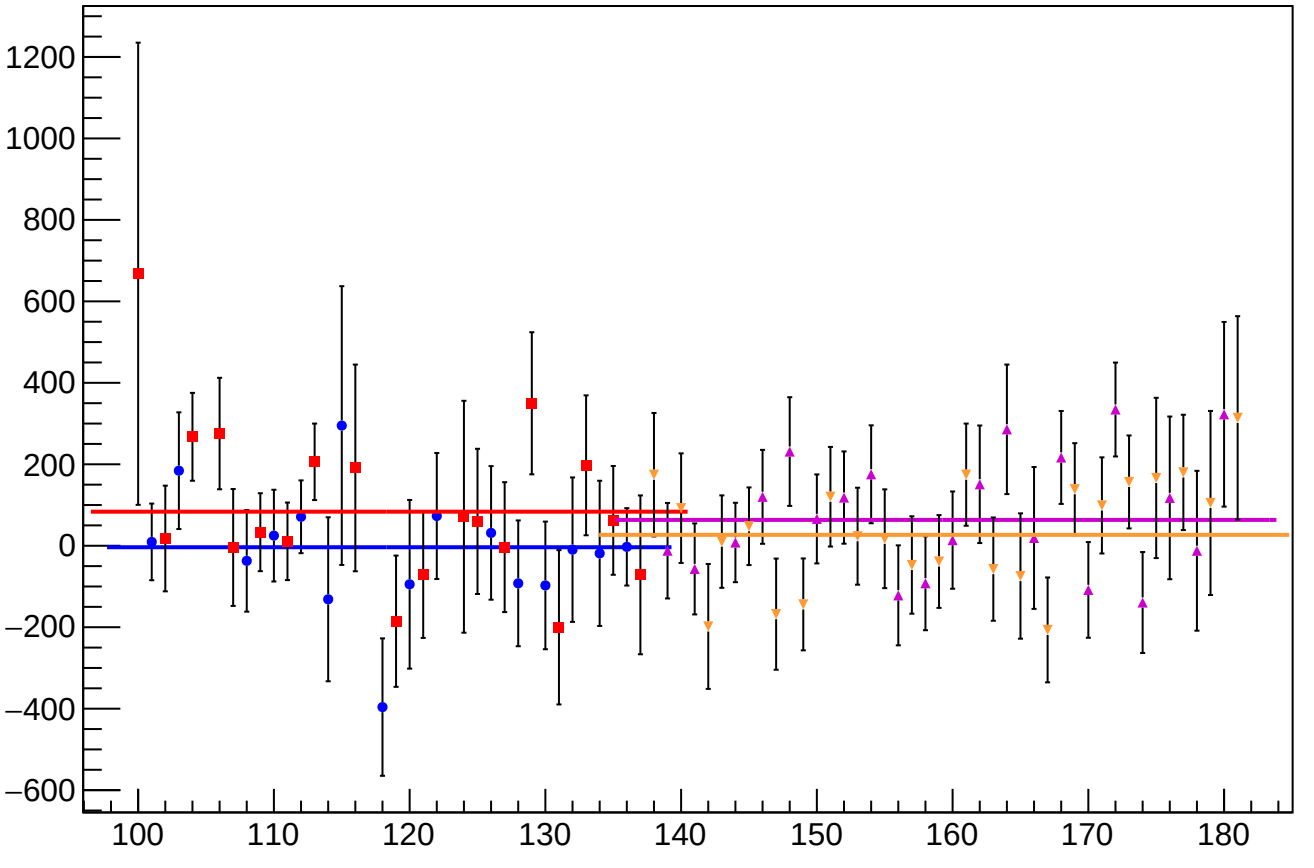
Left: 678.789+/-0.081 $\chi^2$/NDF: 1282850.2/43

Right: 619.742+/-0.124 $\chi^2$/NDF: 3978895.7/34

In: 667.857+/-0.098 $\chi^2$/NDF:2464270.7/36

Out: 654.531+/-0.094 $\chi^2$/NDF:2946892.2/41

All: 660.914+/-0.068 $\chi^2$/NDF: 5420738.0/78




Right In: -3.635+/-34.152 $\chi^2$/NDF: 10.3/15

Left Out: 26.755+/-26.912 $\chi^2$/NDF:20.4/22

Right Out: 83.676+/-32.633 $\chi^2$/NDF: 19.1/18

Left In: 63.447+/-27.597 $\chi^2$/NDF:25.2/20

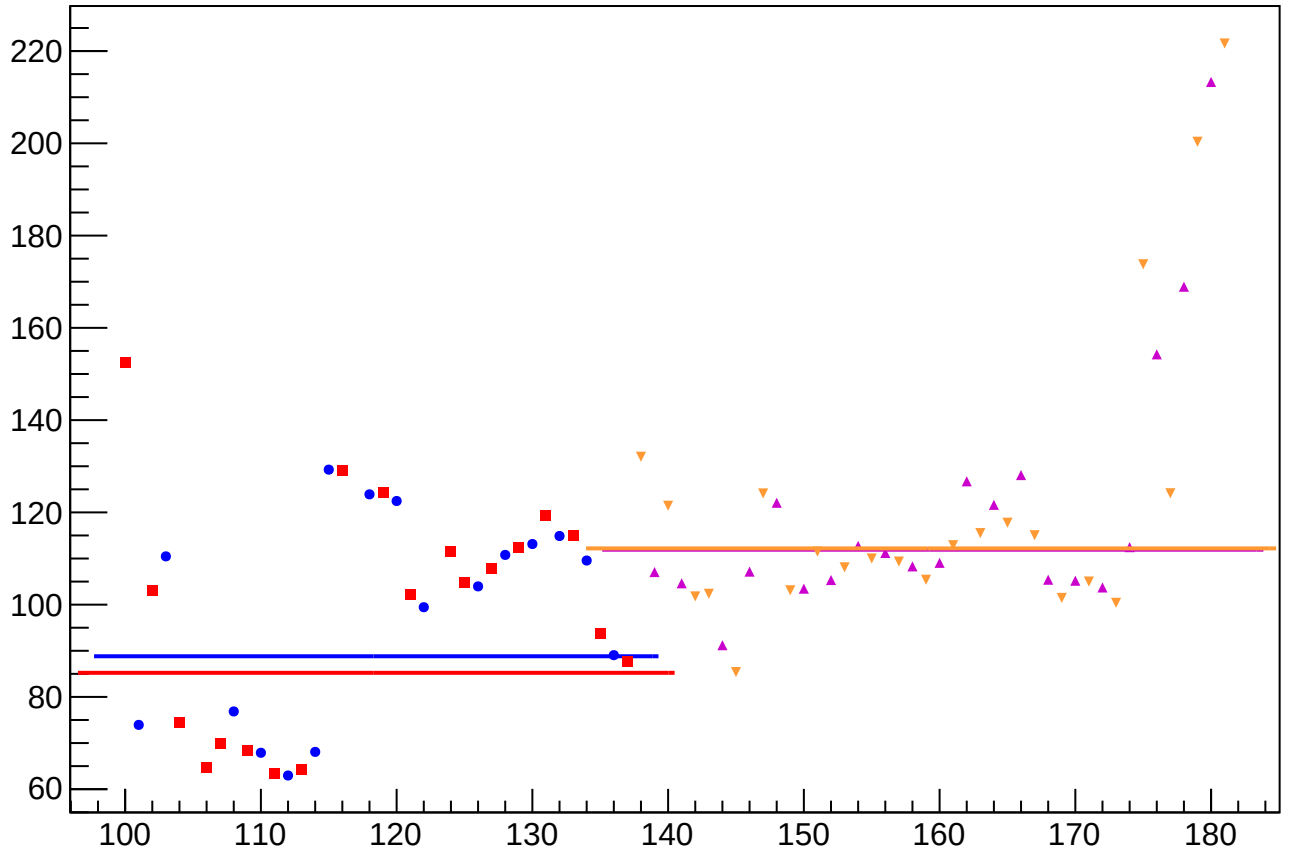
Left: 44.640+/-19.267 $\chi^2$/NDF: 46.4/43

Right: 42.007+/-23.594 $\chi^2$/NDF: 32.8/34

In: 36.948+/-21.465 $\chi^2$/NDF:37.8/36

Out: 49.798+/-20.762 $\chi^2$/NDF:41.2/41

All: 43.587+/-14.923 $\chi^2$/NDF: 79.3/78




Right In: 88.813+/-0.024 $\chi^2$/NDF: 724609.8/15

Left Out: 112.195+/-0.019 $\chi^2$/NDF:1216852.5/22

Right Out: 85.225+/-0.023 $\chi^2$/NDF: 884071.4/18

Left In: 111.909+/-0.020 $\chi^2$/NDF:866897.3/20

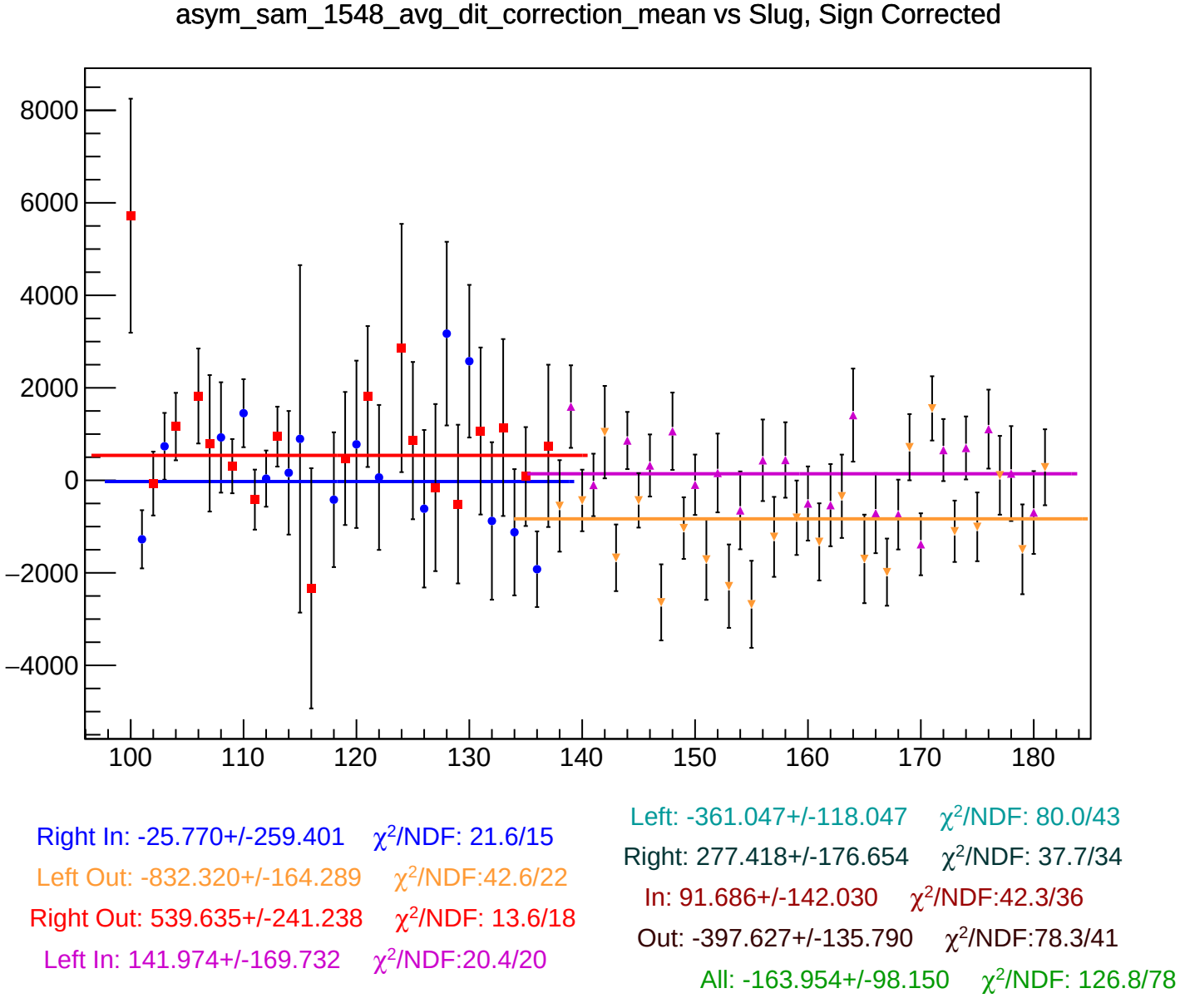
Left: 112.055+/-0.014 $\chi^2$/NDF: 2083859.3/43

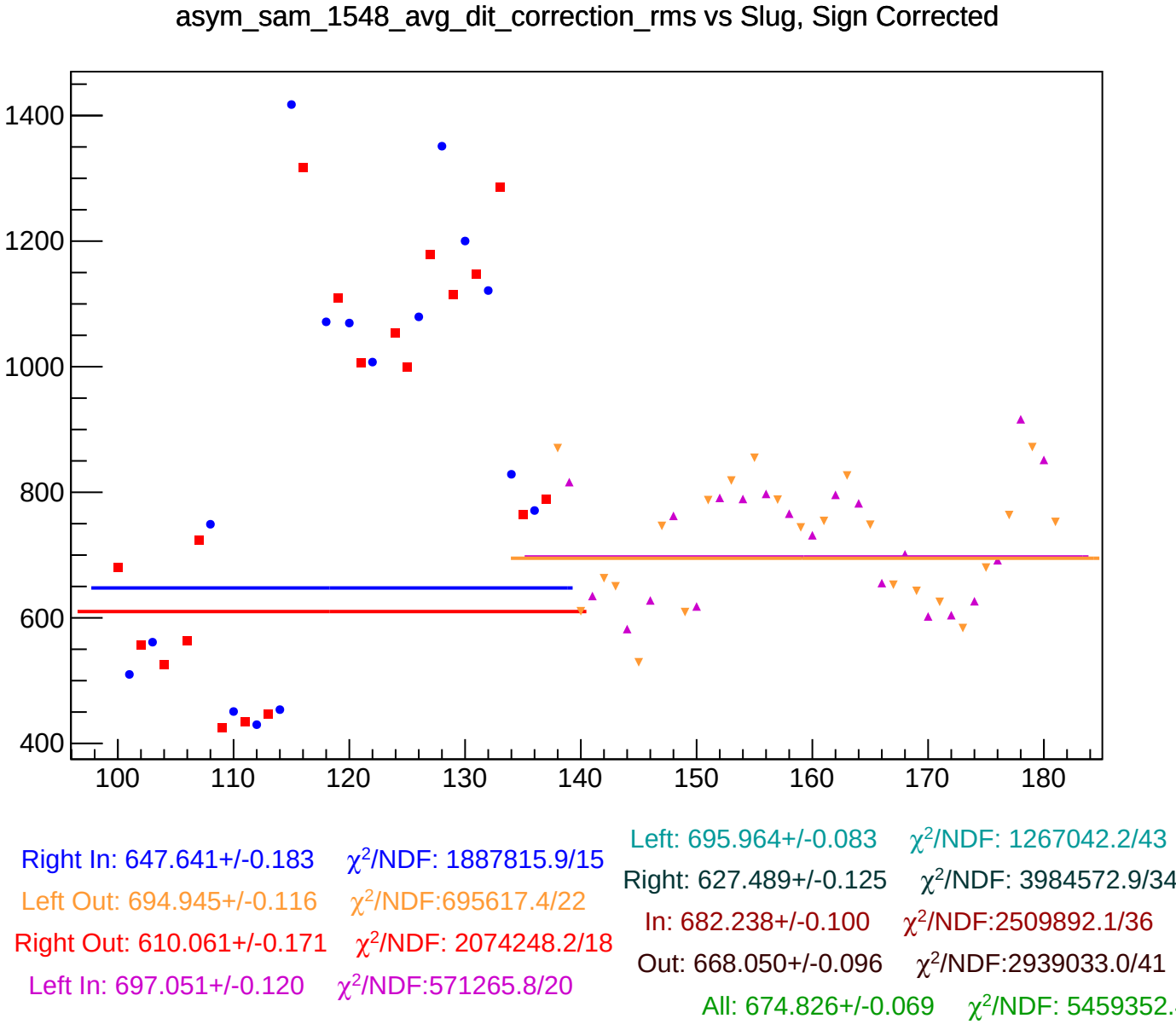
Right: 86.937+/-0.017 $\chi^2$/NDF: 1620225.0/34

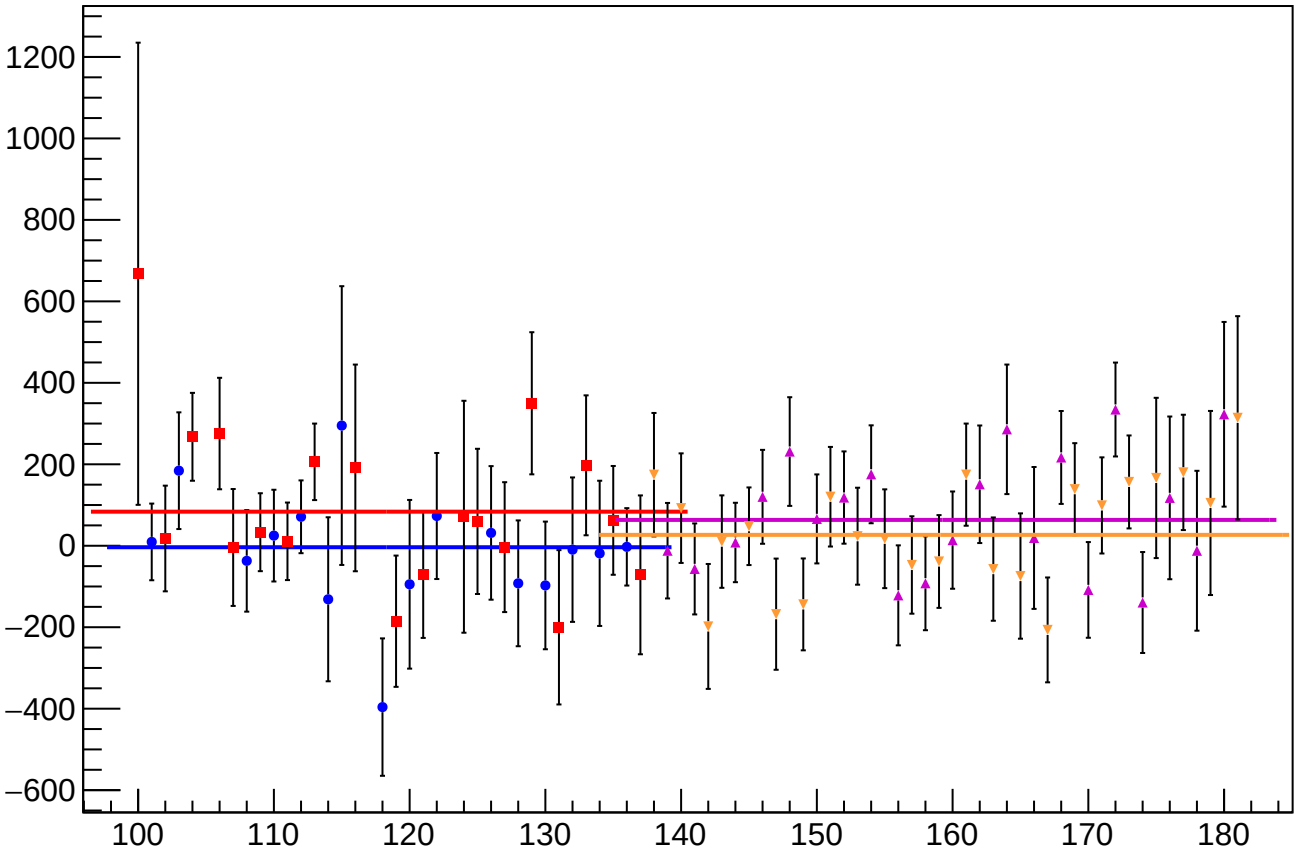
In: 102.786+/-0.015 $\chi^2$/NDF:2144851.2/36

Out: 101.277+/-0.015 $\chi^2$/NDF:2914012.9/41

All: 102.006+/-0.011 $\chi^2$/NDF: 5063970.9/78


asym_sam_1548_avg_dit_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
100
110
120
130
140
150
160
170
180
Right In: -25.770+/-259.401 χ²/NDF: 21.6/15
Left Out: -832.320+/-164.289 χ²/NDF:42.6/22
Right Out: 539.635+/-241.238 χ²/NDF: 13.6/18
Left In: 141.974+/-169.732 χ²/NDF:20.4/20
Left: -361.047+/-118.047 χ²/NDF: 80.0/43
Right: 277.418+/-176.654 χ²/NDF: 37.7/34
In: 91.686+/-142.030 χ²/NDF:42.3/36
Out: -397.627+/-135.790 χ²/NDF:78.3/41
All: -163.954+/-98.150 χ²/NDF: 126.8/78


asym_sam_1548_avg_dit_correction_rms vs Slug, Sign Corrected
1400
1200
1000
800
600
400
100
110
120
130
140
150
160
170
180
Right In: 647.641+/-0.183 χ²/NDF: 1887815.9/15
Left Out: 694.945+/-0.116 χ²/NDF:695617.4/22
Right Out: 610.061+/-0.171 χ²/NDF: 2074248.2/18
Left In: 697.051+/-0.120 χ²/NDF:571265.8/20
Left: 695.964+/-0.083 χ²/NDF: 1267042.2/43
Right: 627.489+/-0.125 χ²/NDF: 3984572.9/34
In: 682.238+/-0.100 χ²/NDF:2509892.1/36
Out: 668.050+/-0.096 χ²/NDF:2939033.0/41
All: 674.826+/-0.069 χ²/NDF: 5459352.4/78




Right In: -3.633+/-34.152 $\chi^2$/NDF: 10.3/15

Left Out: 26.756+/-26.912 $\chi^2$/NDF:20.4/22

Right Out: 83.676+/-32.633 $\chi^2$/NDF: 19.1/18

Left In: 63.447+/-27.597 $\chi^2$/NDF:25.2/20

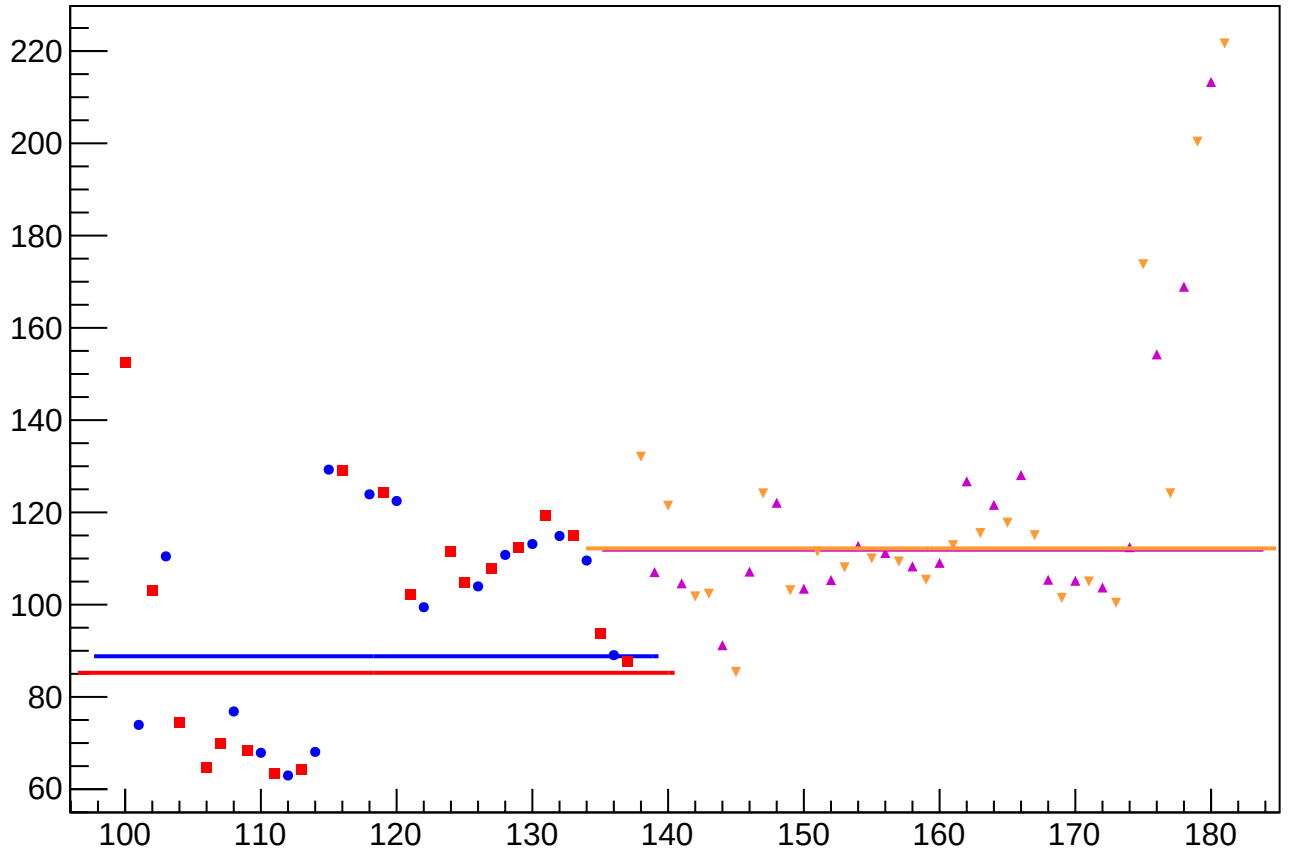
Left: 44.641+/-19.267 $\chi^2$/NDF: 46.4/43

Right: 42.007+/-23.594 $\chi^2$/NDF: 32.8/34

In: 36.949+/-21.465 $\chi^2$/NDF:37.8/36

Out: 49.798+/-20.762 $\chi^2$/NDF:41.2/41

All: 43.587+/-14.923 $\chi^2$/NDF: 79.3/78




Right In: 88.813+/-0.024 $\chi^2$/NDF: 724609.7/15

Left Out: 112.195+/-0.019 $\chi^2$/NDF:1216844.6/22

Right Out: 85.225+/-0.023 $\chi^2$/NDF: 884073.3/18

Left In: 111.909+/-0.020 $\chi^2$/NDF:866876.7/20

Left: 112.056+/-0.014 $\chi^2$/NDF: 2083830.9/43

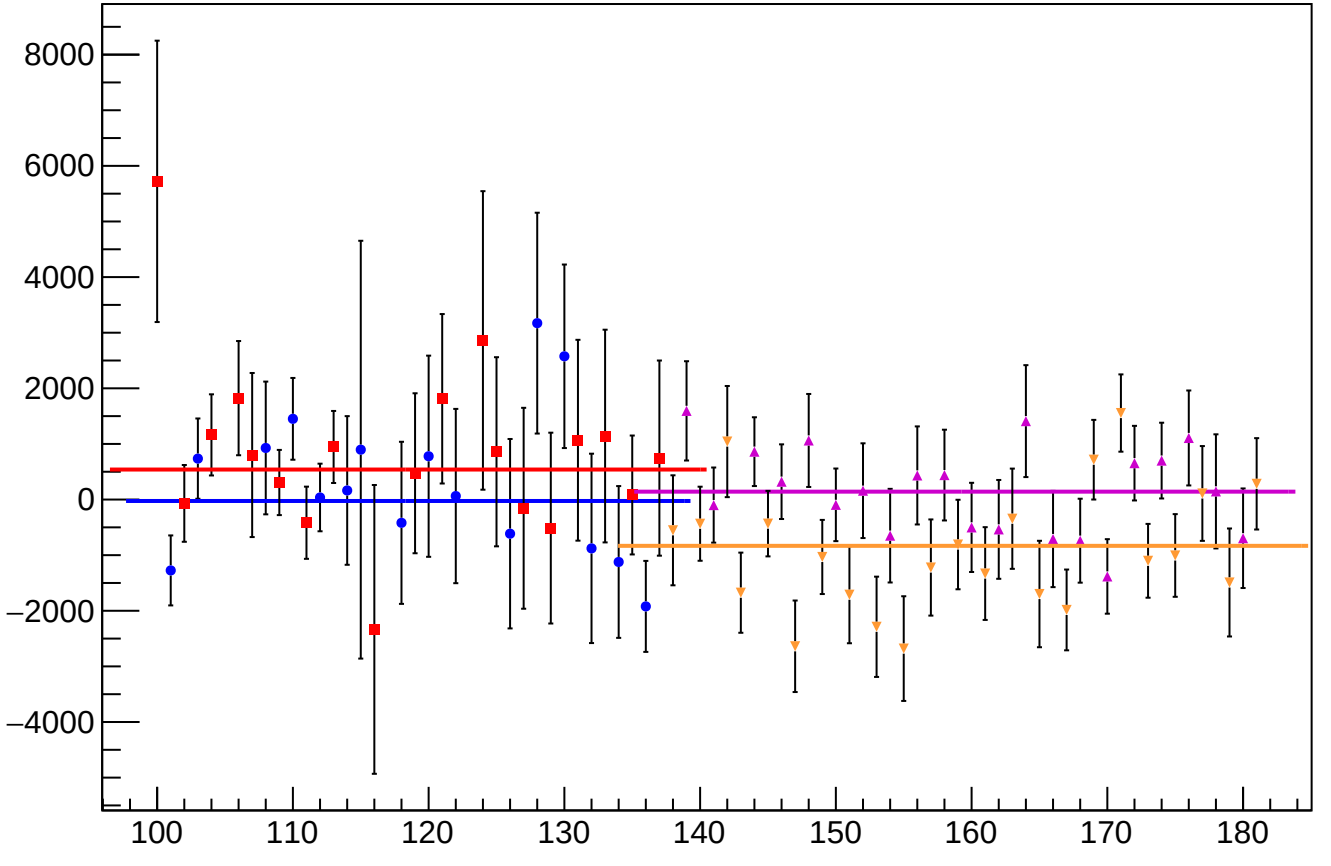
Right: 86.937+/-0.017 $\chi^2$/NDF: 1620226.9/34

In: 102.786+/-0.015 $\chi^2$/NDF:2144838.6/36

Out: 101.277+/-0.015 $\chi^2$/NDF:2914016.0/41

All: 102.006+/-0.011 $\chi^2$/NDF: 5063961.6/78

asym_sam_1548_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -25.770+/-259.401 $\chi^2$/NDF: 21.6/15

Left Out: -832.318+/-164.288 $\chi^2$/NDF:42.6/22

Right Out: 539.635+/-241.238 $\chi^2$/NDF: 13.6/18

Left In: 141.972+/-169.732 $\chi^2$/NDF:20.4/20

Left: -361.047+/-118.047 $\chi^2$/NDF: 80.0/43

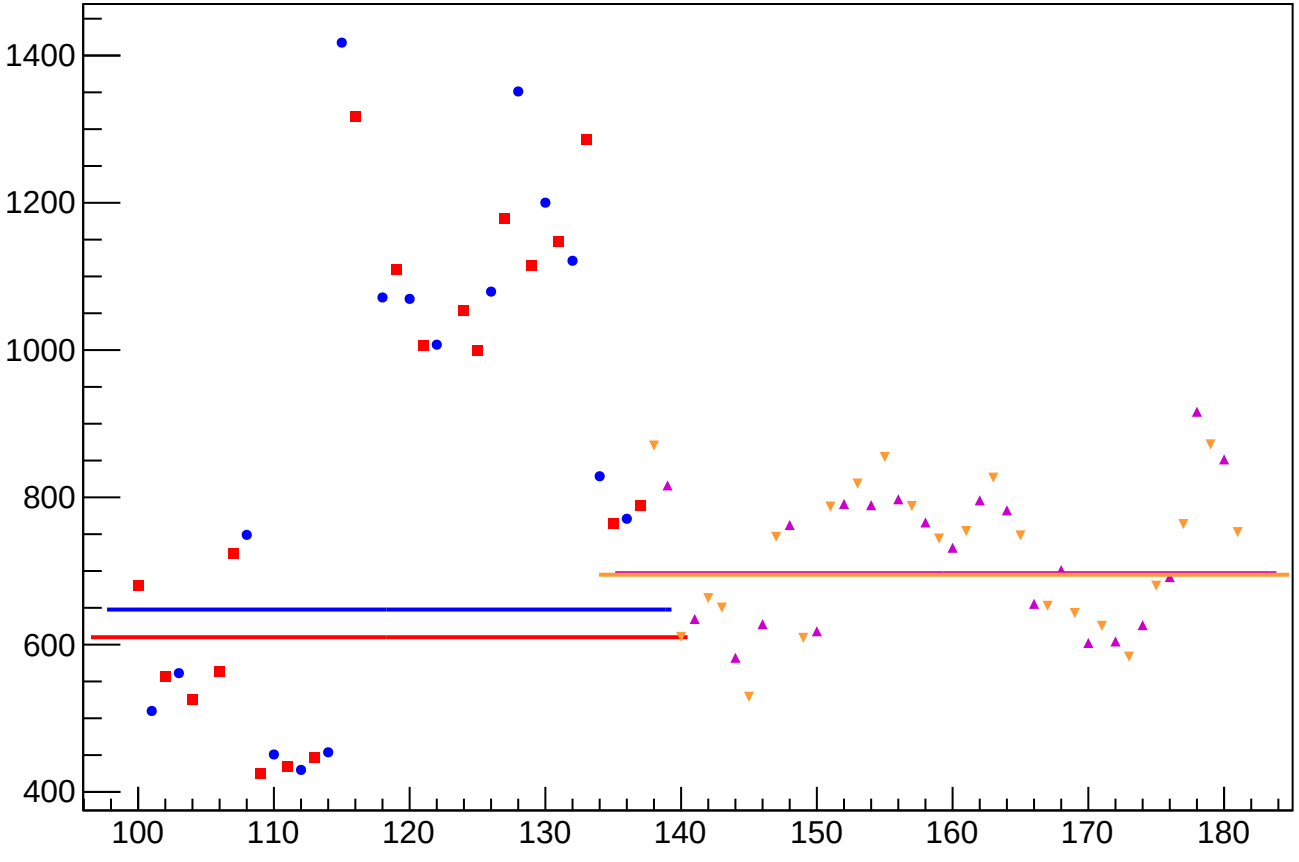
Right: 277.418+/-176.653 $\chi^2$/NDF: 37.7/34

In: 91.685+/-142.029 $\chi^2$/NDF:42.3/36

Out: -397.626+/-135.790 $\chi^2$/NDF:78.3/41

All: -163.954+/-98.150 $\chi^2$/NDF: 126.8/78

asym_sam_1548_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 647.640+/-0.183 $\chi^2$/NDF: 1887820.6/15

Left Out: 694.944+/-0.116 $\chi^2$/NDF:695615.7/22

Right Out: 610.060+/-0.171 $\chi^2$/NDF: 2074251.1/18

Left In: 697.050+/-0.120 $\chi^2$/NDF:571260.7/20

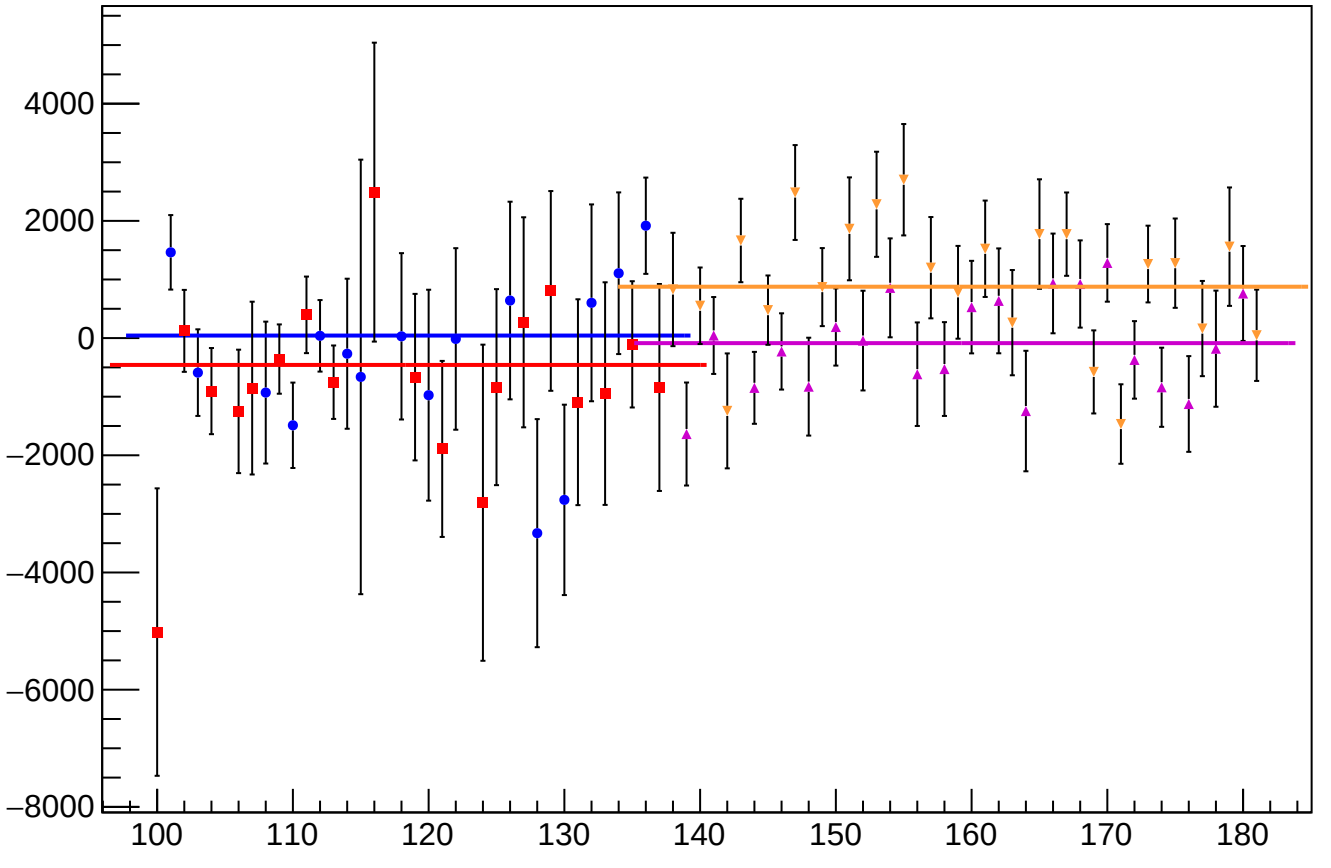
Left: 695.963+/-0.083 $\chi^2$/NDF: 1267035.4/43

Right: 627.488+/-0.125 $\chi^2$/NDF: 3984580.5/34

In: 682.238+/-0.100 $\chi^2$/NDF:2509892.2/36

Out: 668.049+/-0.096 $\chi^2$/NDF:2939034.2/41

All: 674.825+/-0.069 $\chi^2$/NDF: 5459353.8/78




Right In: 43.152+/-259.796 $\chi^2$/NDF: 23.2/15

Left Out: 876.616+/-162.545 $\chi^2$/NDF:40.8/22

Right Out: -458.111+/-241.118 $\chi^2$/NDF: 11.3/18

Left In: -86.223+/-167.156 $\chi^2$/NDF:21.9/20

Left: 408.659+/-116.533 $\chi^2$/NDF: 79.8/43

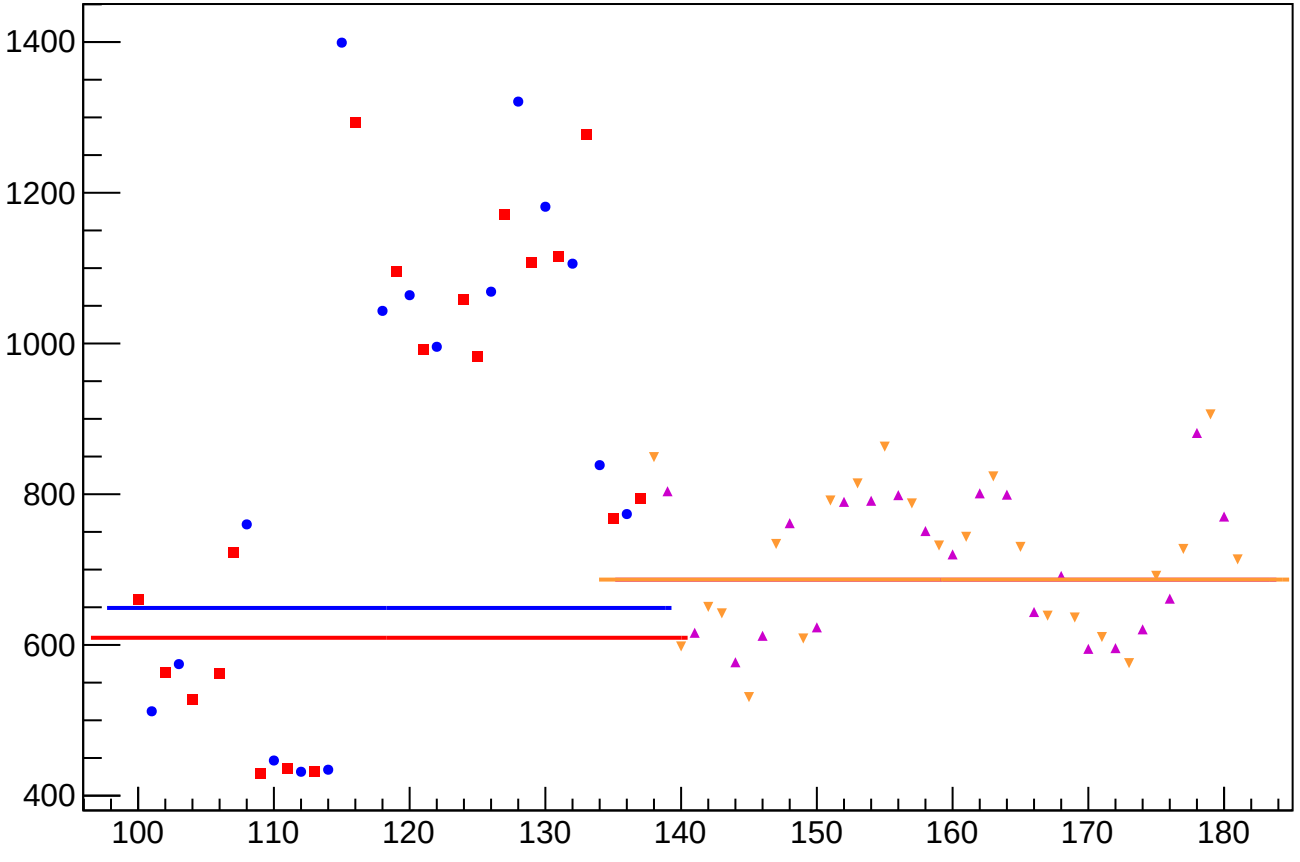
Right: -226.145+/-176.731 $\chi^2$/NDF: 36.5/34

In: -48.345+/-140.572 $\chi^2$/NDF:45.3/36

Out: 459.571+/-134.780 $\chi^2$/NDF:73.2/41

All: 216.294+/-97.287 $\chi^2$/NDF: 125.2/78

# asym_sam_1548_avg_rms vs Slug, Sign Corrected




Right In: 649.091+/-0.184 $\chi^2$/NDF: 1845815.6/15

Left Out: 686.735+/-0.115 $\chi^2$/NDF:712795.6/22

Right Out: 609.516+/-0.170 $\chi^2$/NDF: 2043591.1/18

Left In: 686.548+/-0.118 $\chi^2$/NDF:550030.2/20

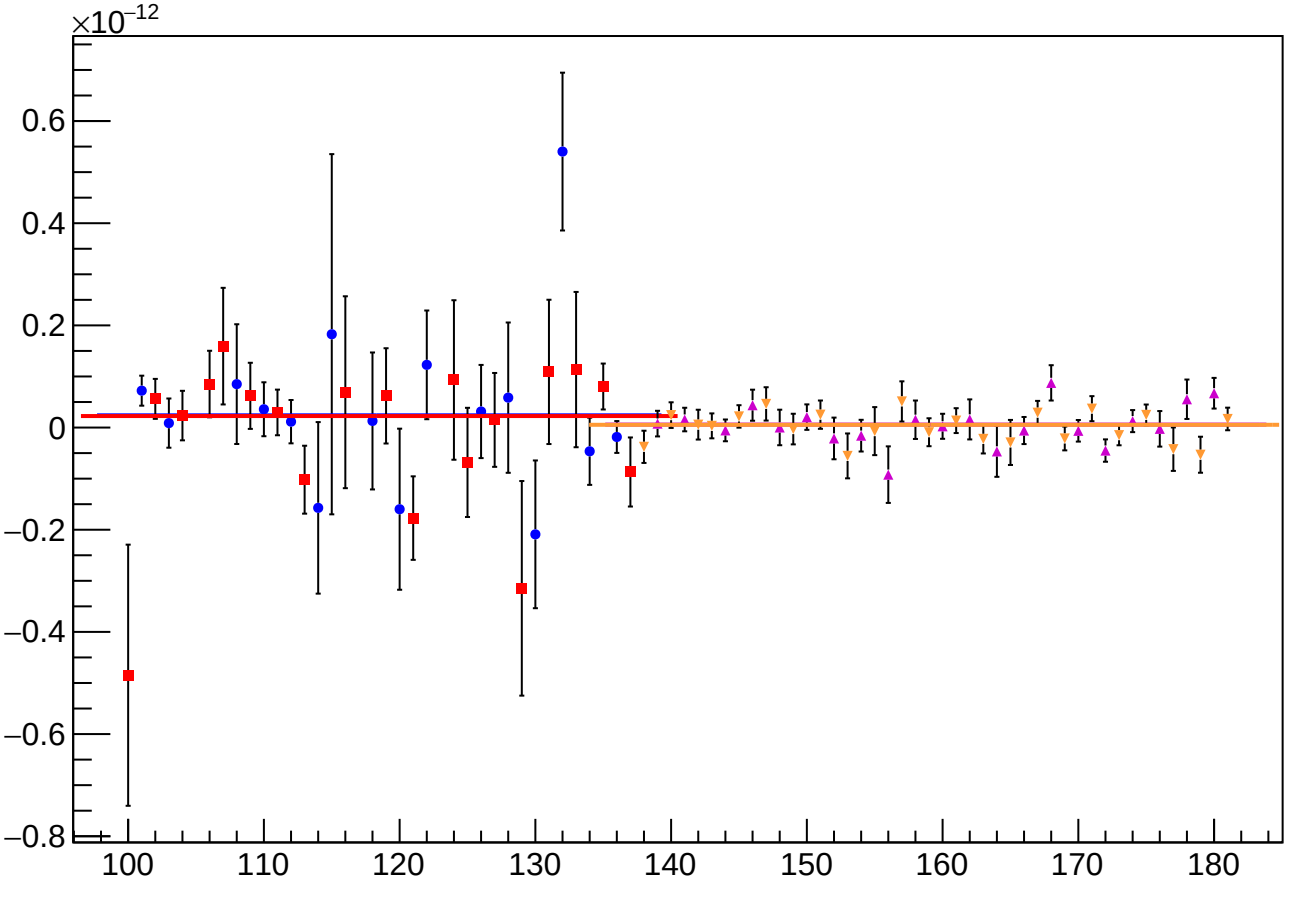
Left: 686.644+/-0.082 $\chi^2$/NDF: 1262827.1/43

Right: 627.830+/-0.125 $\chi^2$/NDF: 3914338.8/34

In: 675.582+/-0.099 $\chi^2$/NDF:2425249.8/36

Out: 662.608+/-0.095 $\chi^2$/NDF:2897419.2/41

All: 668.822+/-0.069 $\chi^2$/NDF: 5331545.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:20.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.2/20

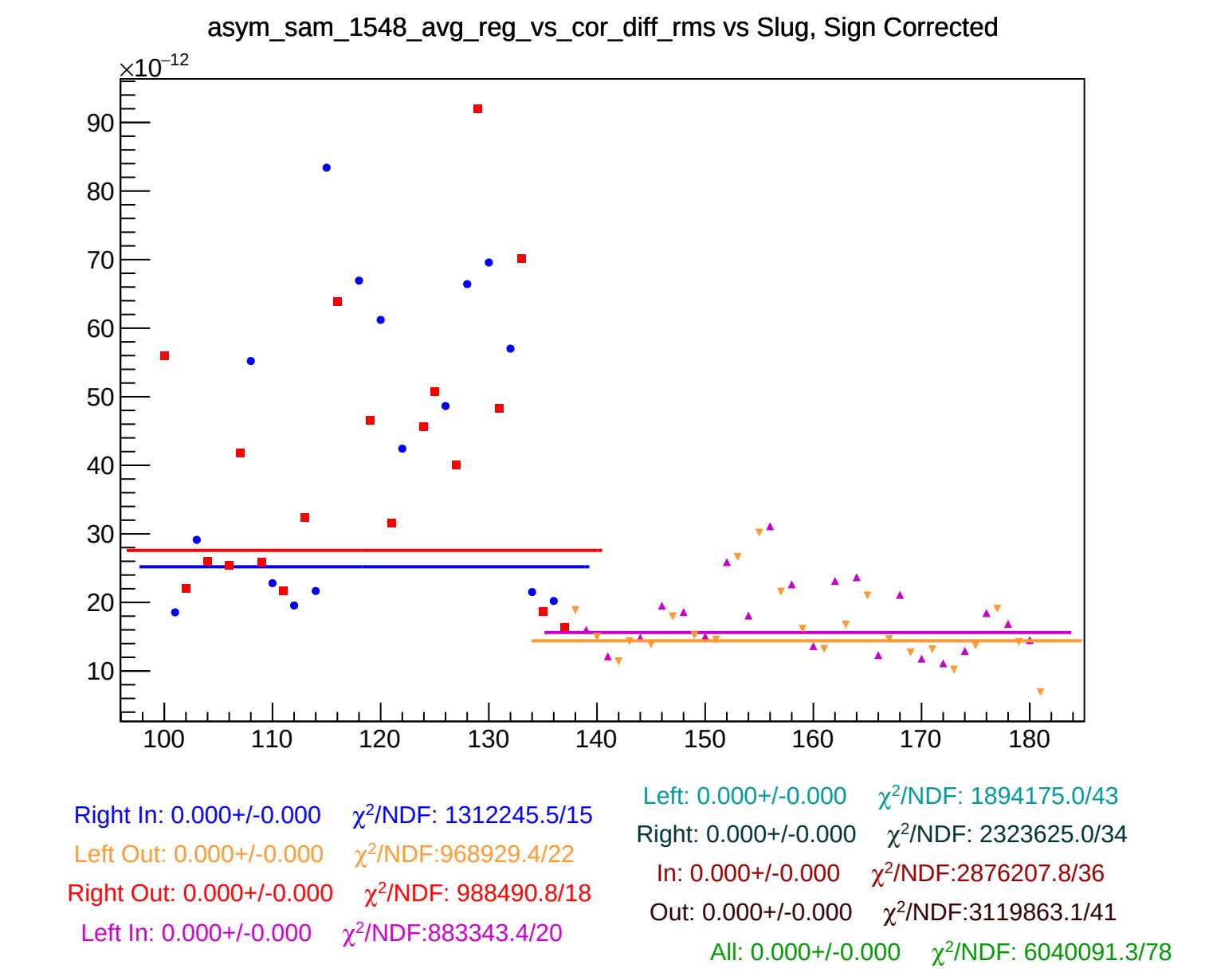
Left: 0.000+/-0.000 $\chi^2$/NDF: 45.9/43

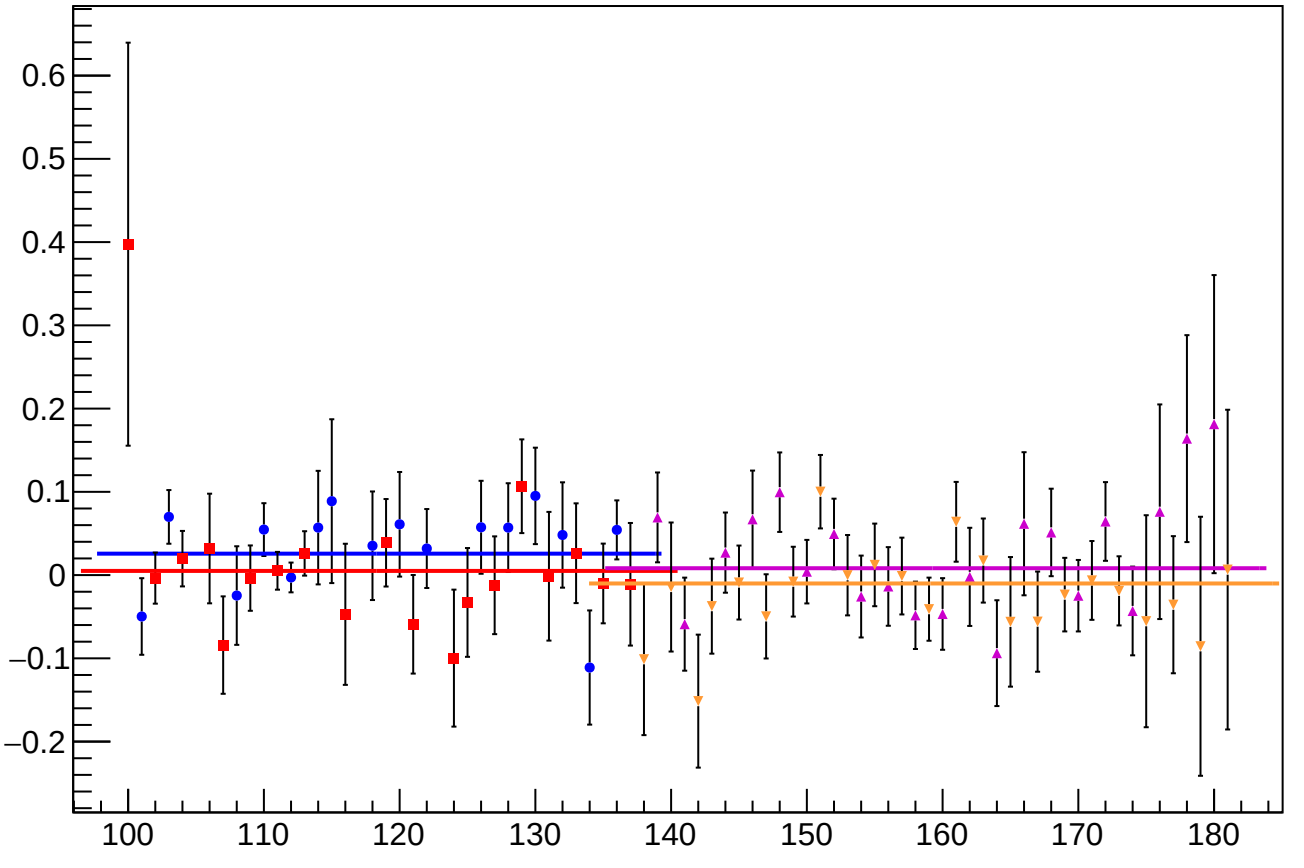
Right: 0.000+/-0.000 $\chi^2$/NDF: 49.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:50.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:47.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 97.5/78


asym_sam_1548_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1312245.5/15
Left Out: 0.000+/-0.000 χ²/NDF:968929.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 988490.8/18
Left In: 0.000+/-0.000 χ²/NDF:883343.4/20
Left: 0.000+/-0.000 χ²/NDF: 1894175.0/43
Right: 0.000+/-0.000 χ²/NDF: 2323625.0/34
In: 0.000+/-0.000 χ²/NDF:2876207.8/36
Out: 0.000+/-0.000 χ²/NDF:3119863.1/41
All: 0.000+/-0.000 χ²/NDF: 6040091.3/78




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.010+/-0.011 $\chi^2$/NDF:16.4/22

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.008+/-0.011 $\chi^2$/NDF:22.2/20

Left: -0.001+/-0.008 $\chi^2$/NDF: 39.8/43

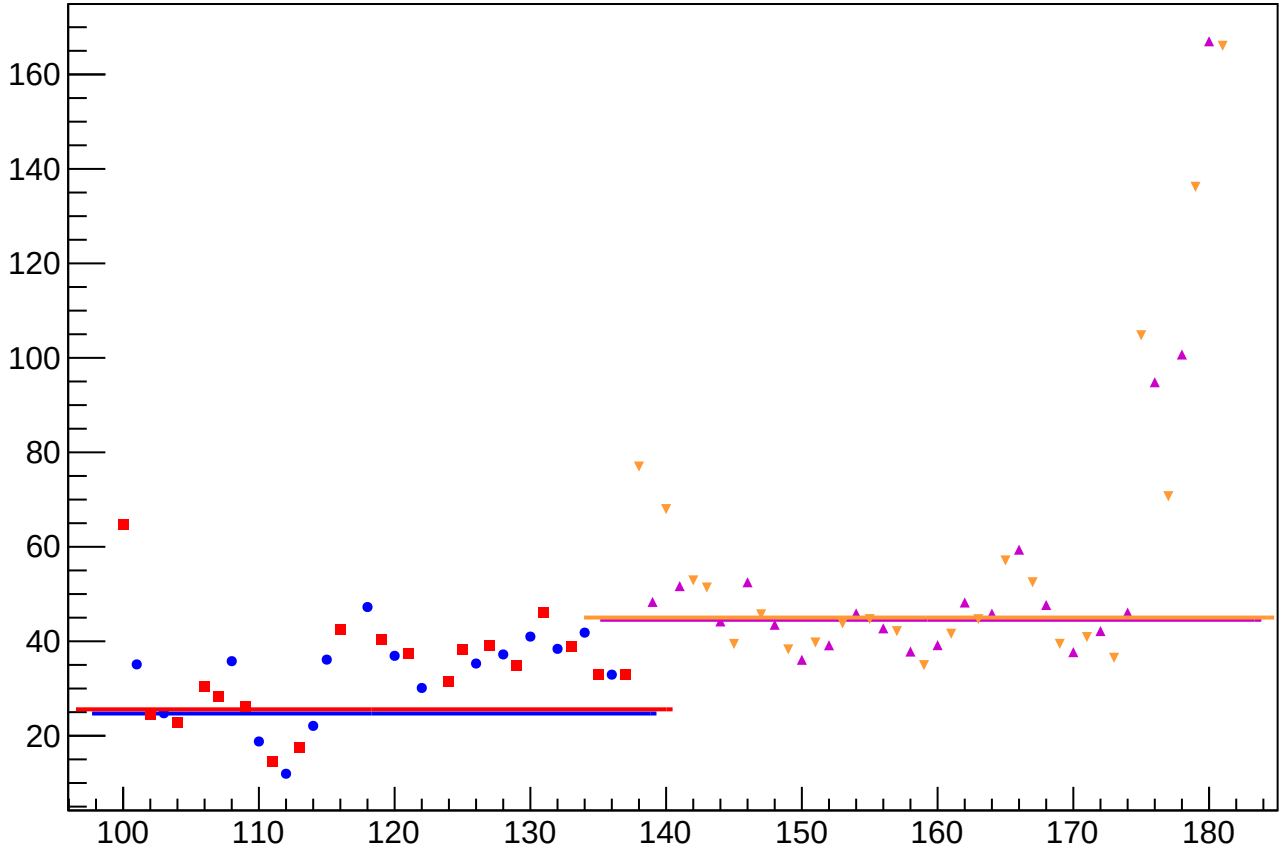
Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.018+/-0.008 $\chi^2$/NDF:39.9/36

Out: -0.002+/-0.008 $\chi^2$/NDF:31.0/41

All: 0.008+/-0.005 $\chi^2$/NDF: 74.2/78

asym_sam_1548_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 24.712+/-0.007 $\chi^2$/NDF: 2295174.7/15

Left Out: 45.025+/-0.008 $\chi^2$/NDF:3065531.0/22

Right Out: 25.597+/-0.007 $\chi^2$/NDF: 1605235.8/18

Left In: 44.552+/-0.008 $\chi^2$/NDF:2083357.0/20

Left: 44.792+/-0.006 $\chi^2$/NDF: 5150616.0/43

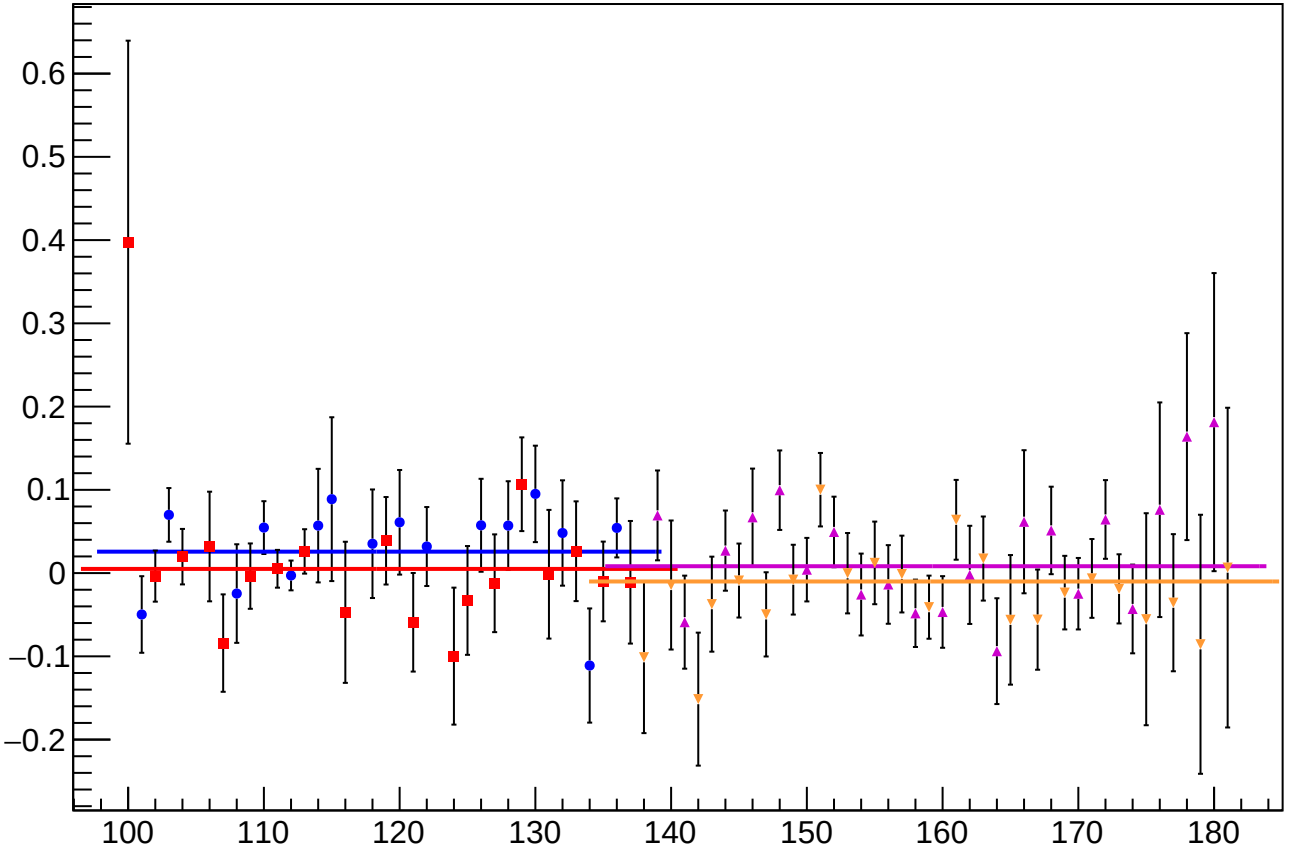
Right: 25.155+/-0.005 $\chi^2$/NDF: 3907717.2/34

In: 33.631+/-0.005 $\chi^2$/NDF:7677710.4/36

Out: 34.449+/-0.005 $\chi^2$/NDF:7882706.1/41

All: 34.042+/-0.004 $\chi^2$/NDF: 15571828.8/78

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.010+/-0.011 $\chi^2$/NDF:16.4/22

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.008+/-0.011 $\chi^2$/NDF:22.2/20

Left: -0.001+/-0.008 $\chi^2$/NDF: 39.8/43

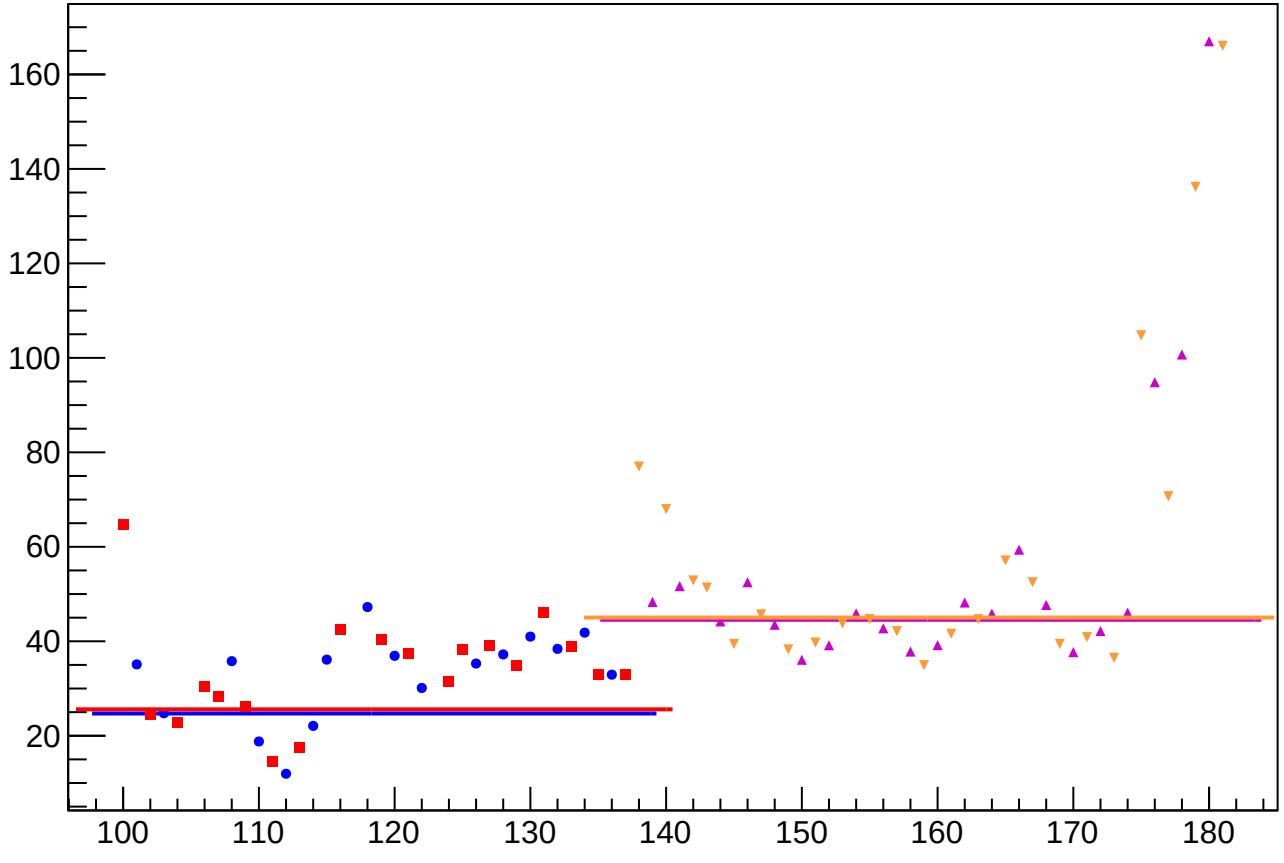
Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.018+/-0.008 $\chi^2$/NDF:39.9/36

Out: -0.002+/-0.008 $\chi^2$/NDF:31.0/41

All: 0.008+/-0.005 $\chi^2$/NDF: 74.2/78

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 24.712+/-0.007 $\chi^2$/NDF: 2295174.7/15

Left Out: 45.025+/-0.008 $\chi^2$/NDF:3065531.0/22

Right Out: 25.597+/-0.007 $\chi^2$/NDF: 1605235.8/18

Left In: 44.552+/-0.008 $\chi^2$/NDF:2083357.0/20

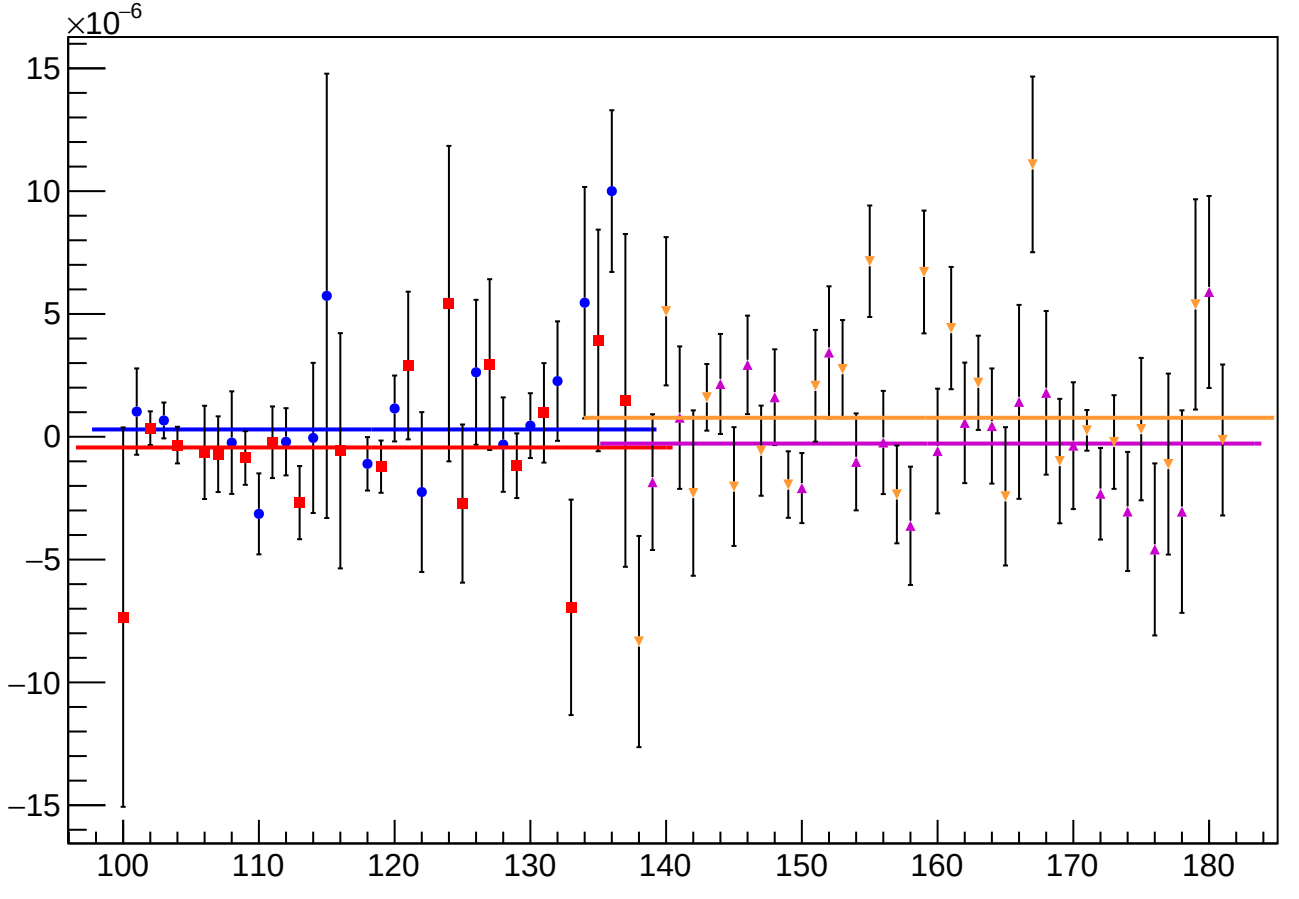
Left: 44.792+/-0.006 $\chi^2$/NDF: 5150616.0/43

Right: 25.155+/-0.005 $\chi^2$/NDF: 3907717.2/34

In: 33.631+/-0.005 $\chi^2$/NDF:7677710.4/36

Out: 34.449+/-0.005 $\chi^2$/NDF:7882706.1/41

All: 34.042+/-0.004 $\chi^2$/NDF: 15571828.8/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:45.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.7/20

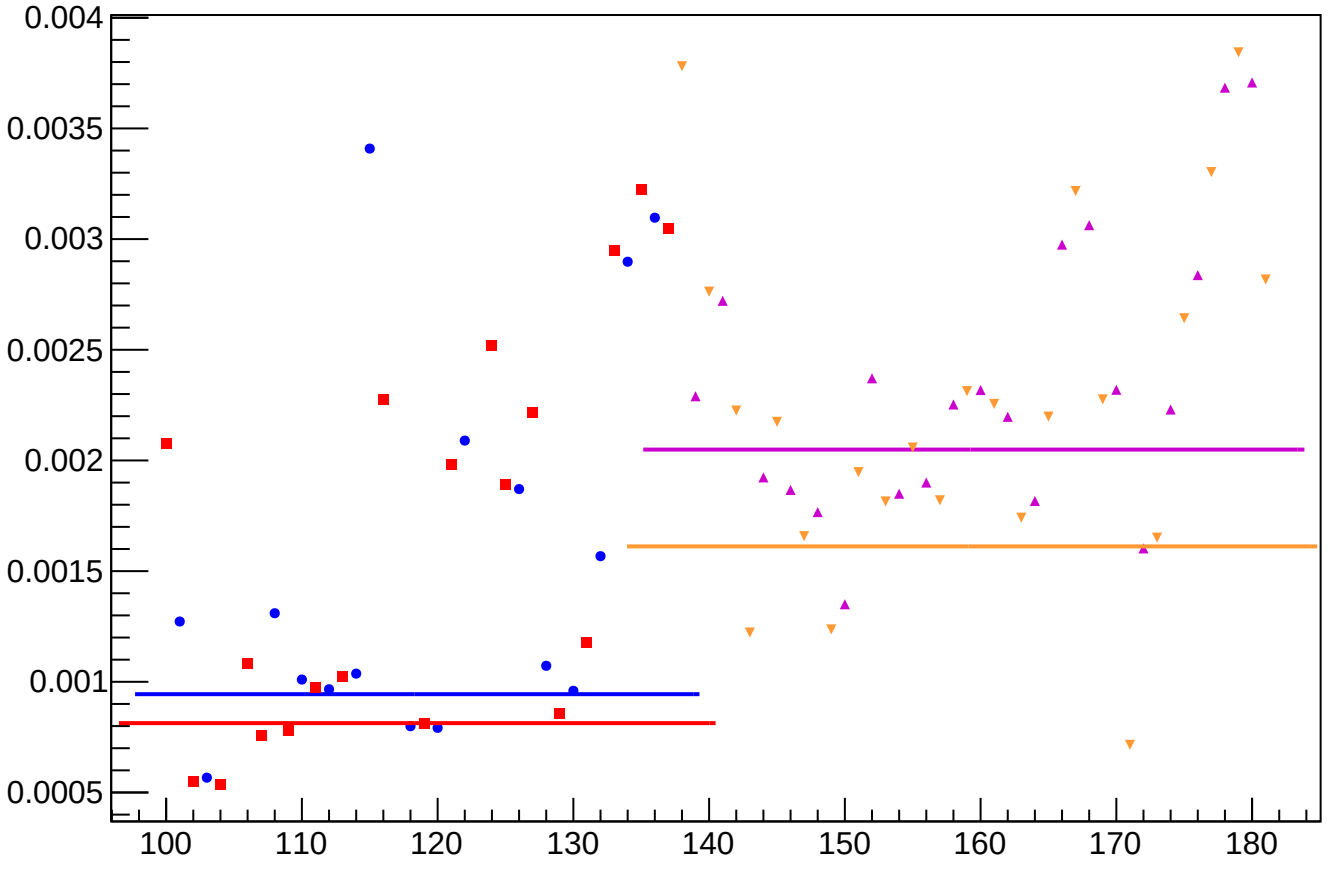
Left: 0.000+/-0.000 $\chi^2$/NDF: 67.2/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 33.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:38.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:63.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 102.5/78




Right In: 0.001+/-0.000 $\chi^2$/NDF: 2665853.3/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:6257514.4/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3244147.3/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:2010213.3/20

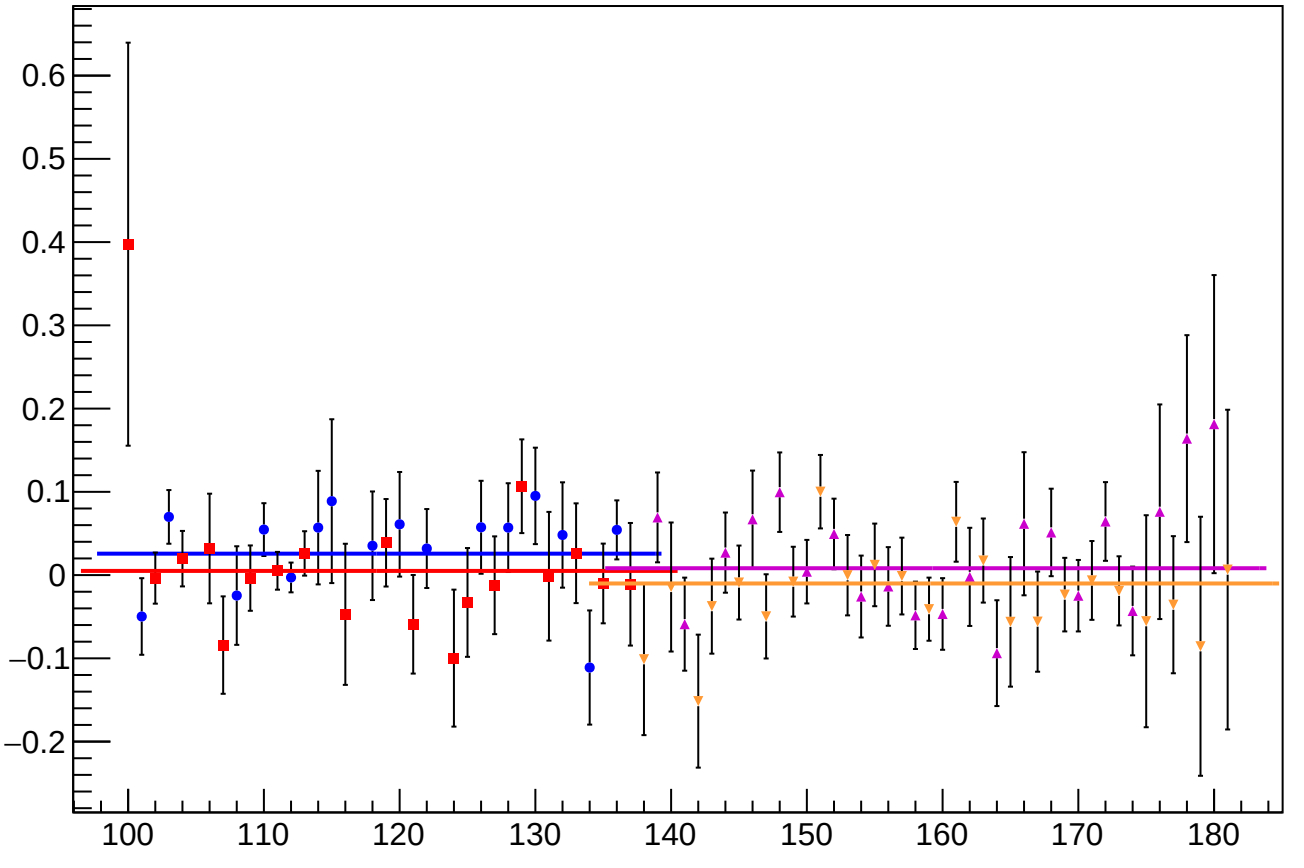
Left: 0.002+/-0.000 $\chi^2$/NDF: 9136672.4/43

Right: 0.001+/-0.000 $\chi^2$/NDF: 6033376.9/34

In: 0.001+/-0.000 $\chi^2$/NDF:10395852.0/36

Out: 0.001+/-0.000 $\chi^2$/NDF:13889637.7/41

All: 0.001+/-0.000 $\chi^2$/NDF: 24894085.7/78




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.010+/-0.011 $\chi^2$/NDF:16.4/22

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.008+/-0.011 $\chi^2$/NDF:22.2/20

Left: -0.001+/-0.008 $\chi^2$/NDF: 39.8/43

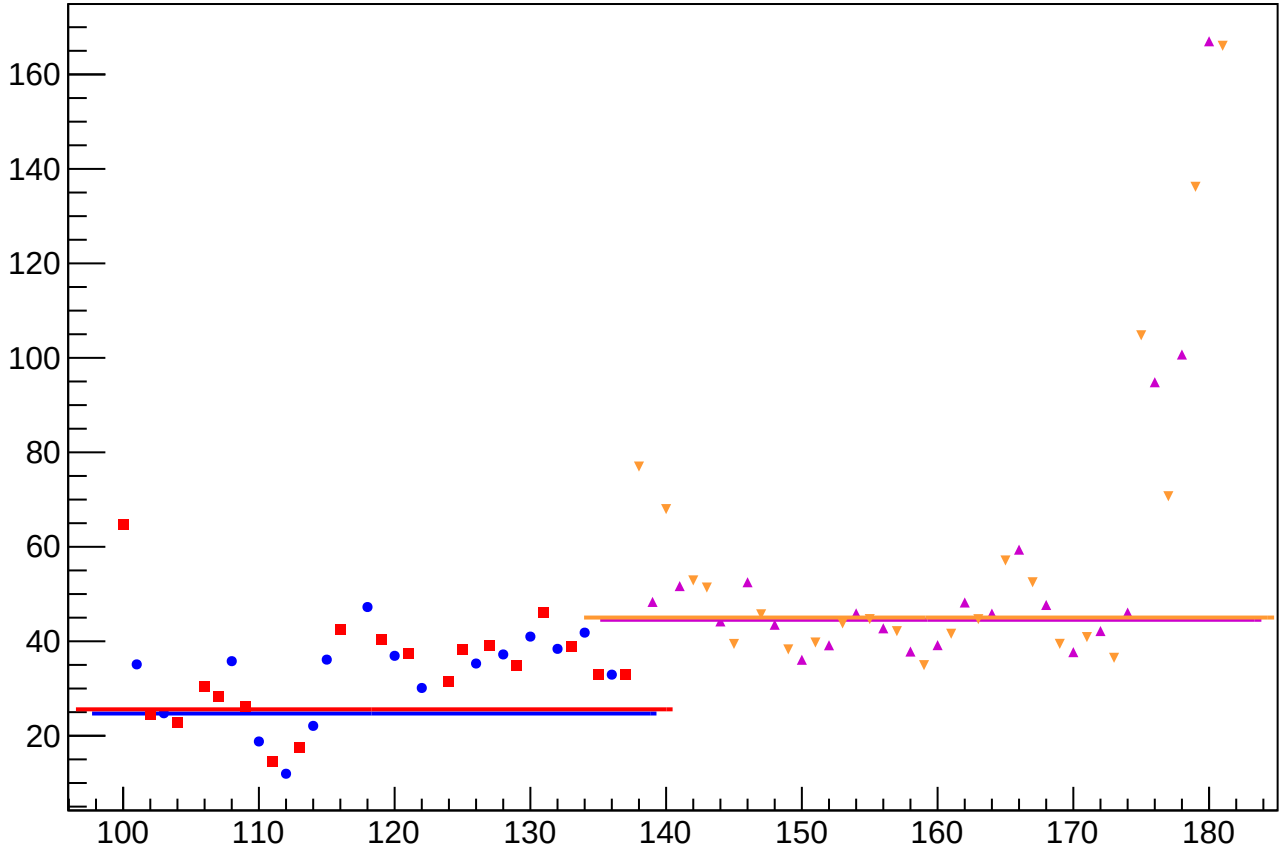
Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.018+/-0.008 $\chi^2$/NDF:39.9/36

Out: -0.002+/-0.008 $\chi^2$/NDF:31.0/41

All: 0.008+/-0.005 $\chi^2$/NDF: 74.2/78

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 24.712+/-0.007 $\chi^2$/NDF: 2295351.2/15

Left Out: 45.026+/-0.008 $\chi^2$/NDF:3065464.4/22

Right Out: 25.597+/-0.007 $\chi^2$/NDF: 1605387.3/18

Left In: 44.553+/-0.008 $\chi^2$/NDF:2083280.1/20

Left: 44.792+/-0.006 $\chi^2$/NDF: 5150472.0/43

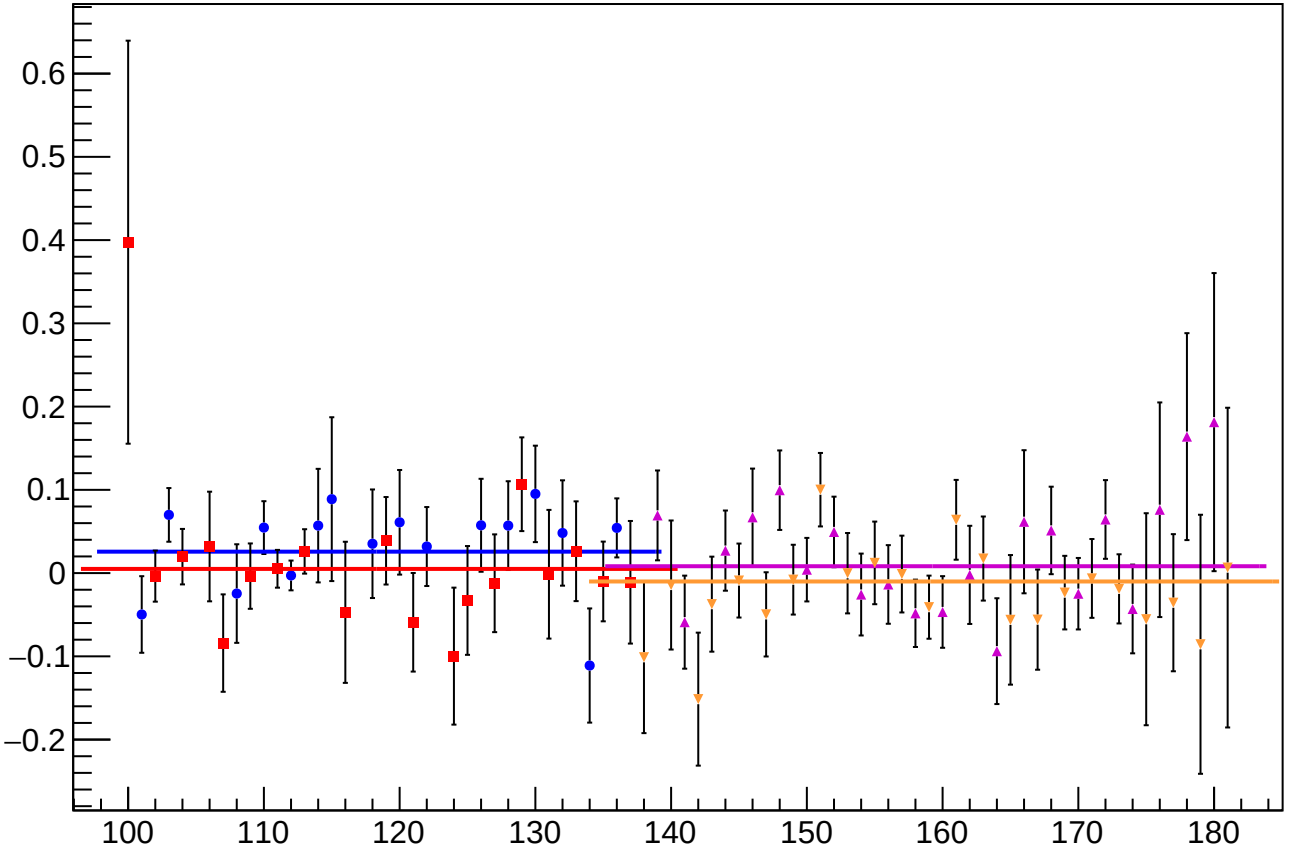
Right: 25.155+/-0.005 $\chi^2$/NDF: 3908047.8/34

In: 33.630+/-0.005 $\chi^2$/NDF:7678152.0/36

Out: 34.449+/-0.005 $\chi^2$/NDF:7883057.0/41

All: 34.042+/-0.004 $\chi^2$/NDF: 15572624.8/78

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.010+/-0.011 $\chi^2$/NDF:16.4/22

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.008+/-0.011 $\chi^2$/NDF:22.2/20

Left: -0.001+/-0.008 $\chi^2$/NDF: 39.8/43

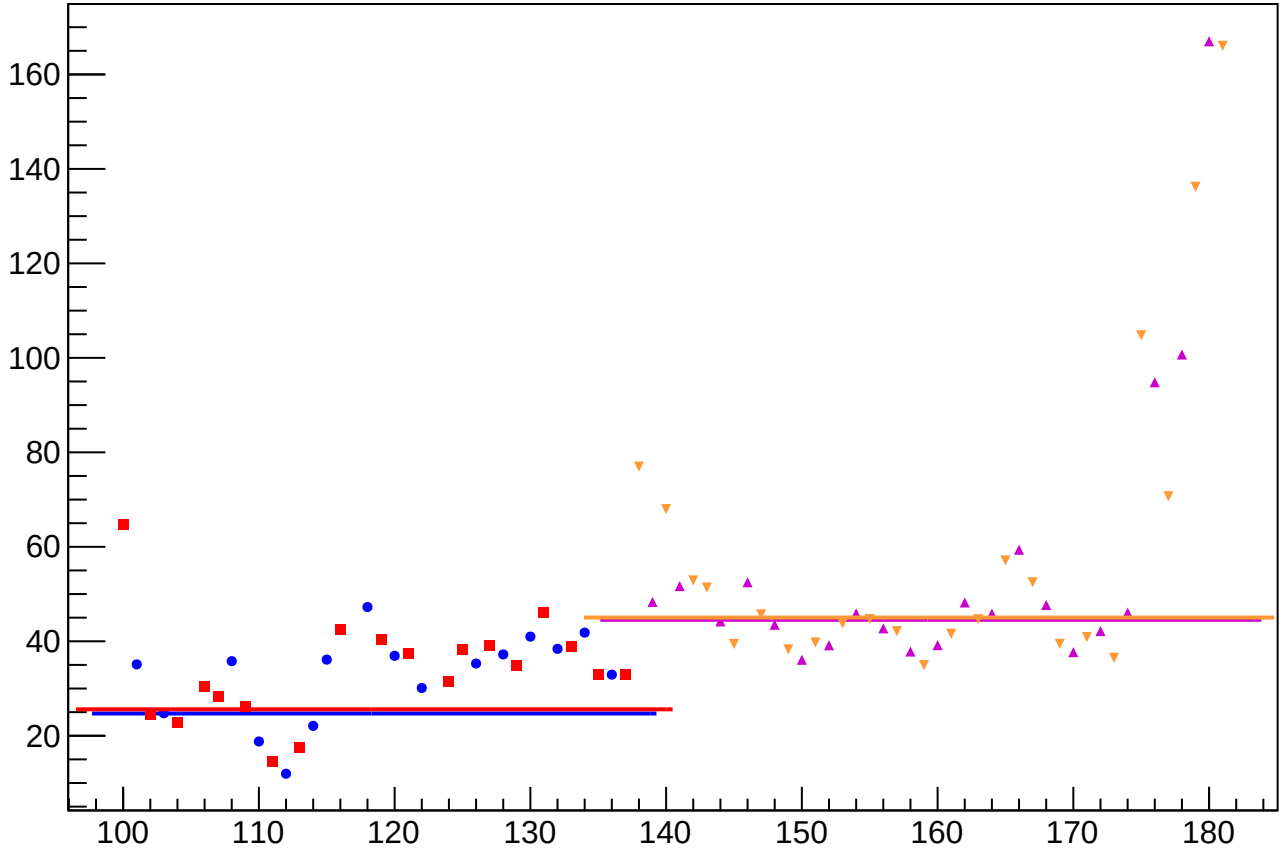
Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.018+/-0.008 $\chi^2$/NDF:39.9/36

Out: -0.002+/-0.008 $\chi^2$/NDF:31.0/41

All: 0.008+/-0.005 $\chi^2$/NDF: 74.2/78

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 24.712+/-0.007 $\chi^2$/NDF: 2295351.2/15

Left Out: 45.026+/-0.008 $\chi^2$/NDF:3065464.4/22

Right Out: 25.597+/-0.007 $\chi^2$/NDF: 1605387.3/18

Left In: 44.553+/-0.008 $\chi^2$/NDF:2083280.1/20

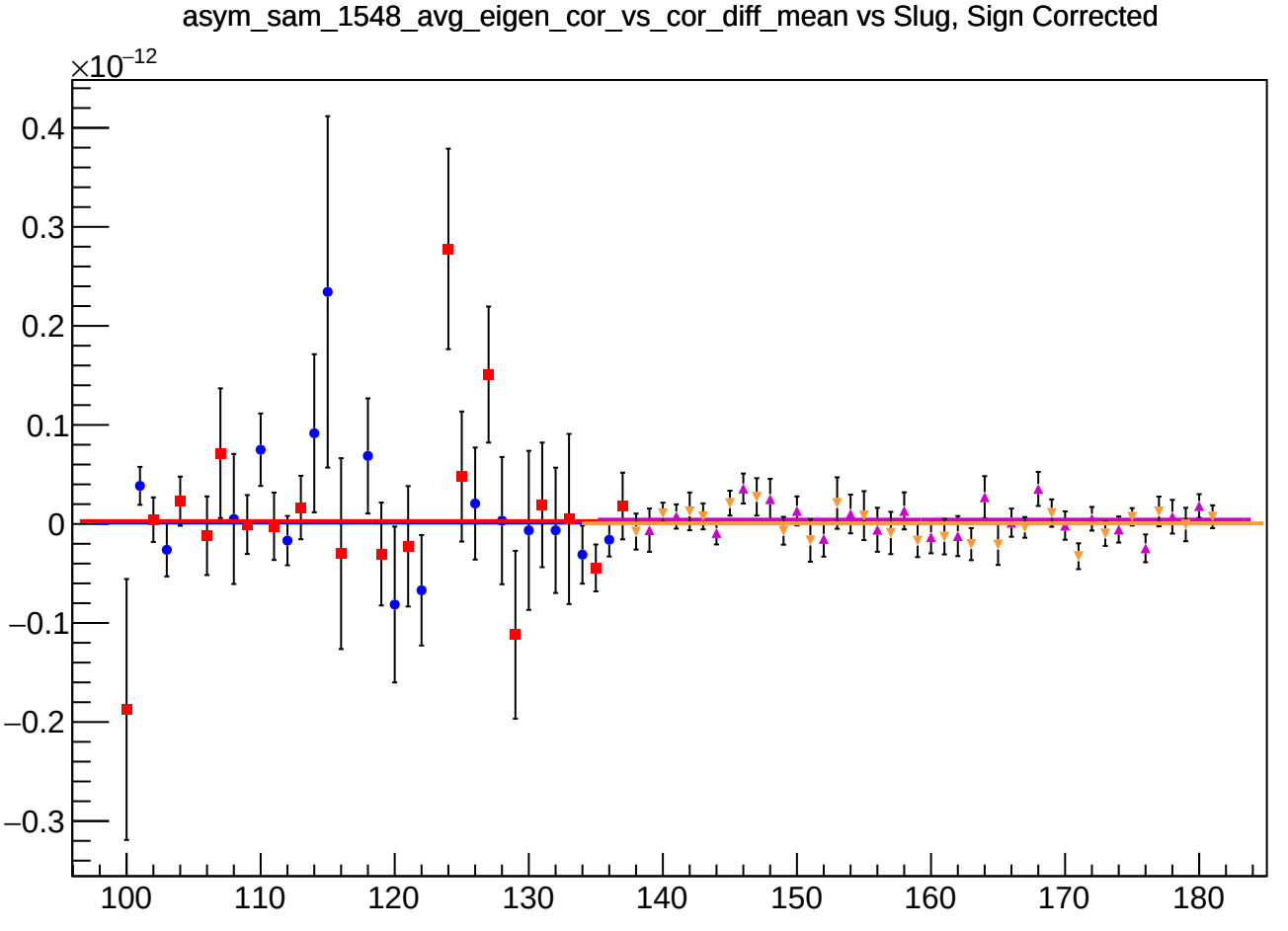
Left: 44.792+/-0.006 $\chi^2$/NDF: 5150472.0/43

Right: 25.155+/-0.005 $\chi^2$/NDF: 3908047.8/34

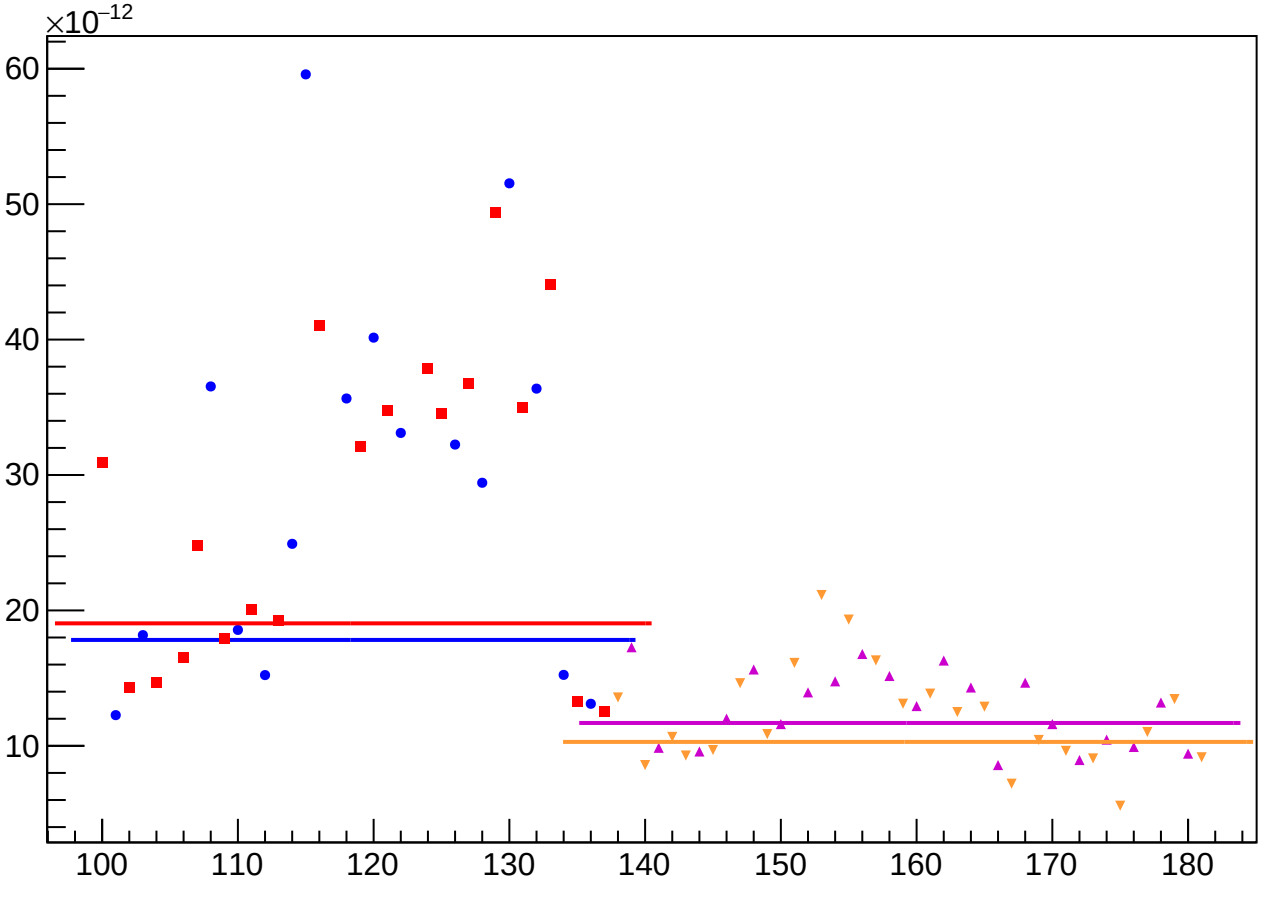
In: 33.630+/-0.005 $\chi^2$/NDF:7678152.0/36

Out: 34.449+/-0.005 $\chi^2$/NDF:7883057.0/41

All: 34.042+/-0.004 $\chi^2$/NDF: 15572624.8/78


asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10⁻¹²
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 18.7/15
Left Out: 0.000+/-0.000 χ²/NDF:22.1/22
Right Out: 0.000+/-0.000 χ²/NDF: 23.5/18
Left In: 0.000+/-0.000 χ²/NDF:21.7/20
Left: 0.000+/-0.000 χ²/NDF: 44.6/43
Right: 0.000+/-0.000 χ²/NDF: 42.2/34
In: 0.000+/-0.000 χ²/NDF:40.5/36
Out: 0.000+/-0.000 χ²/NDF:45.7/41
All: 0.000+/-0.000 χ²/NDF: 86.8/78

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1869965.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2236179.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1620721.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1115606.5/20

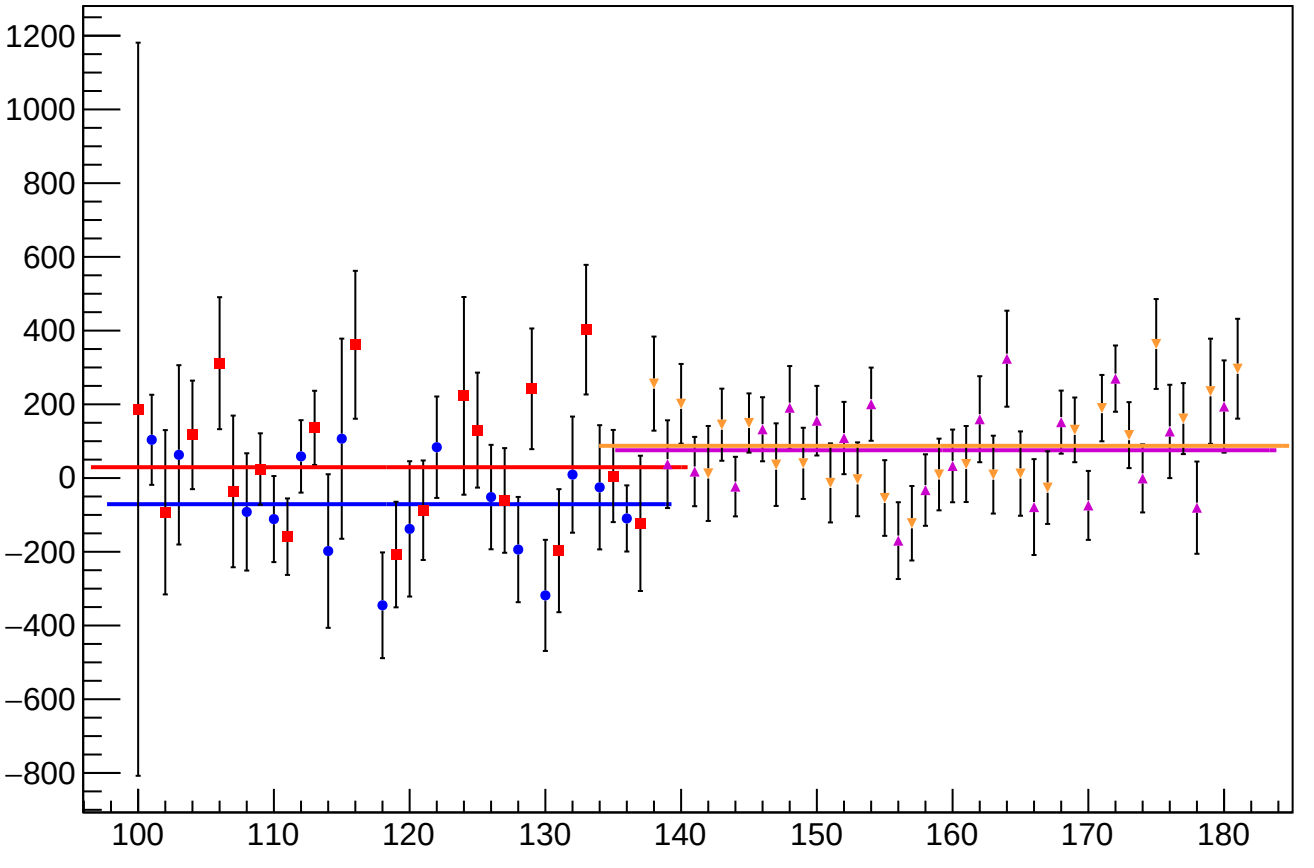
Left: 0.000+/-0.000 $\chi^2$/NDF: 3543072.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3509564.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:3853863.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5512726.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9565858.8/78




Right In: -70.892+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 87.440+/-21.522 $\chi^2$/NDF:26.5/22

Right Out: 29.410+/-34.243 $\chi^2$/NDF: 24.0/18

Left In: 75.407+/-22.139 $\chi^2$/NDF:29.7/20

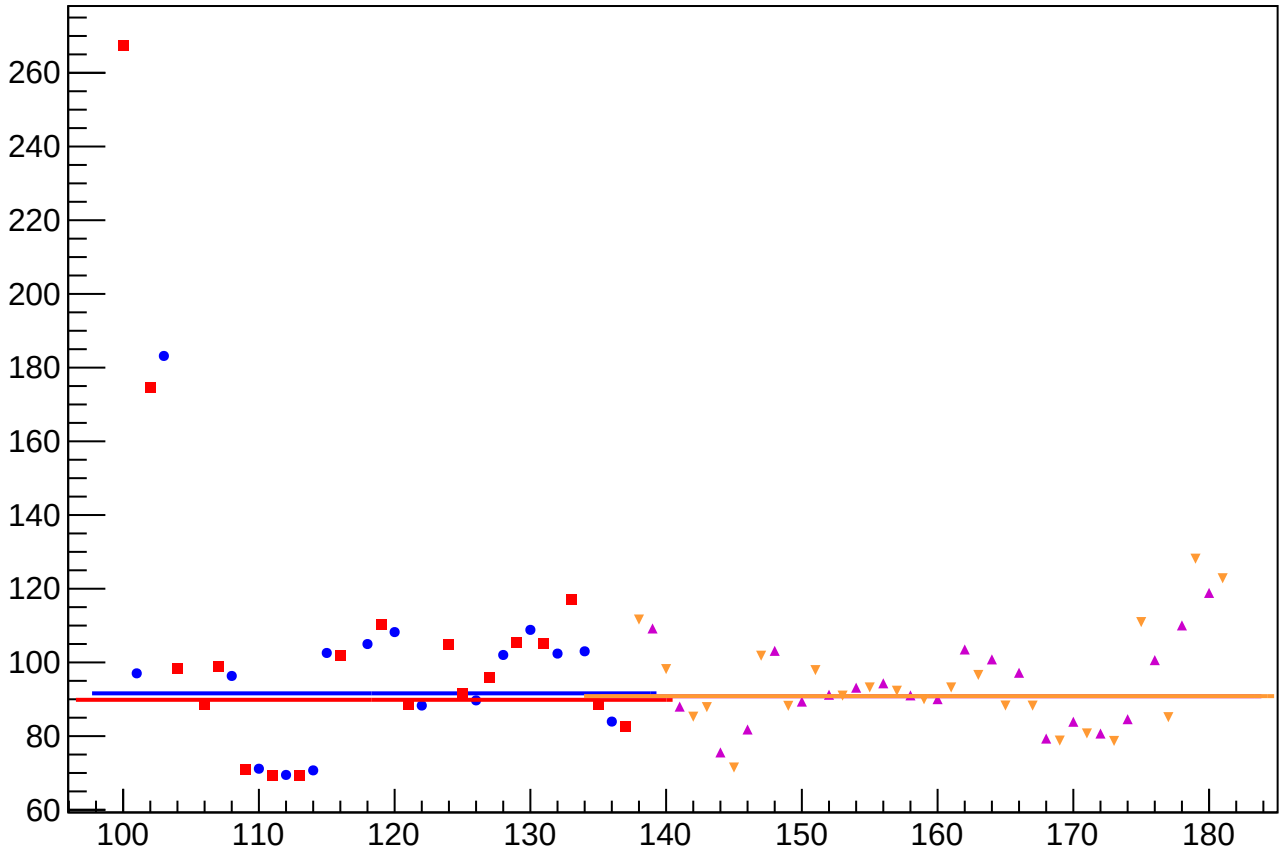
Left: 81.594+/-15.432 $\chi^2$/NDF: 56.4/43

Right: -19.470+/-24.518 $\chi^2$/NDF: 42.3/34

In: 33.808+/-18.728 $\chi^2$/NDF:56.2/36

Out: 71.008+/-18.222 $\chi^2$/NDF:52.6/41

All: 52.919+/-13.060 $\chi^2$/NDF: 110.8/78




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580672.8/15

Left Out: 90.851+/-0.015 $\chi^2$/NDF:634066.9/22

Right Out: 89.854+/-0.024 $\chi^2$/NDF: 746289.1/18

Left In: 90.819+/-0.016 $\chi^2$/NDF:451512.3/20

Left: 90.835+/-0.011 $\chi^2$/NDF: 1085581.3/43

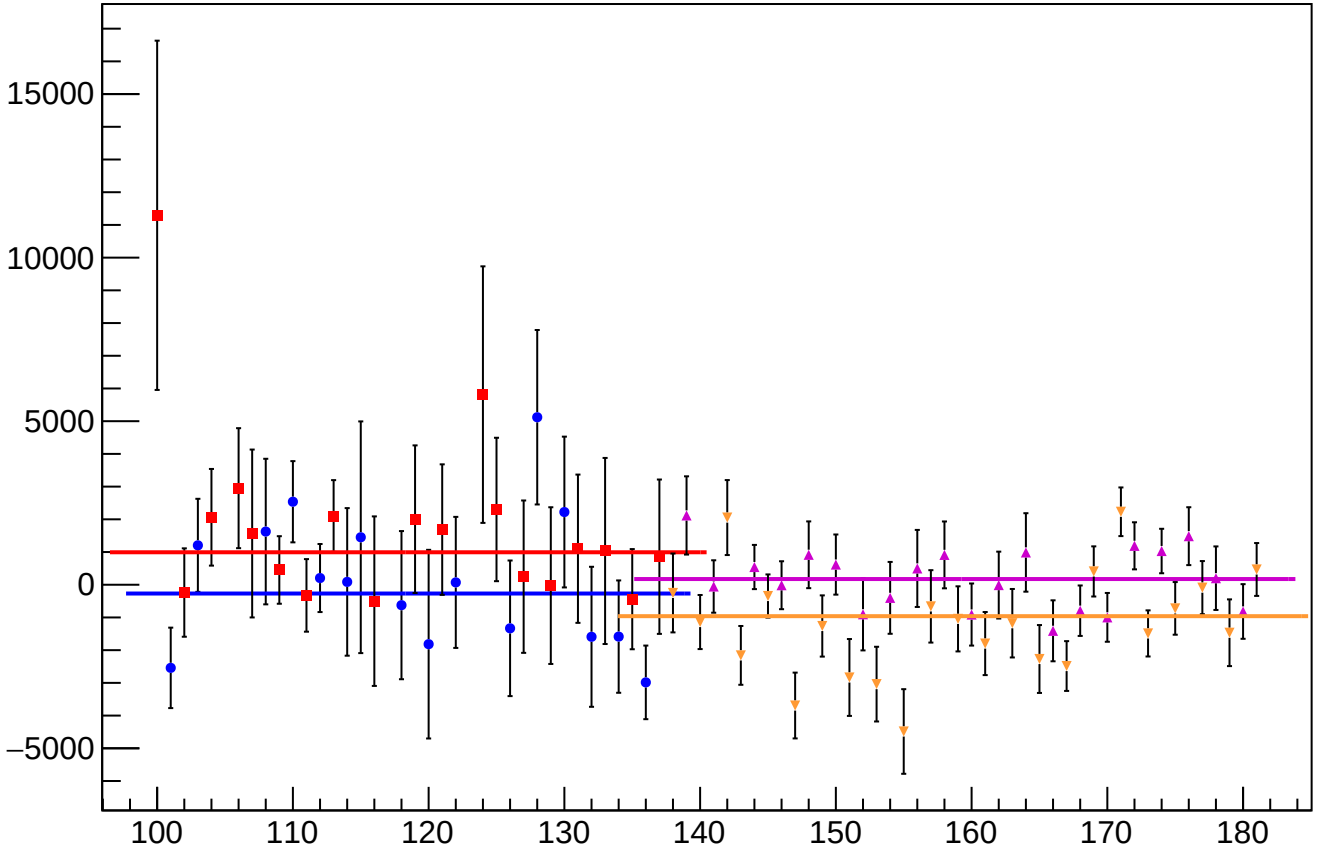
Right: 90.709+/-0.017 $\chi^2$/NDF: 1329517.7/34

In: 91.043+/-0.013 $\chi^2$/NDF:1032907.8/36

Out: 90.569+/-0.013 $\chi^2$/NDF:1381570.5/41

All: 90.800+/-0.009 $\chi^2$/NDF: 2415137.1/78

asym_sam_3748_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -268.485+/-419.578 $\chi^2$/NDF: 23.4/15

Left Out: -960.905+/-188.276 $\chi^2$/NDF:64.0/22

Right Out: 992.670+/-400.824 $\chi^2$/NDF: 12.7/18

Left In: 174.367+/-192.314 $\chi^2$/NDF:21.6/20

Left: -405.312+/-134.536 $\chi^2$/NDF: 103.3/43

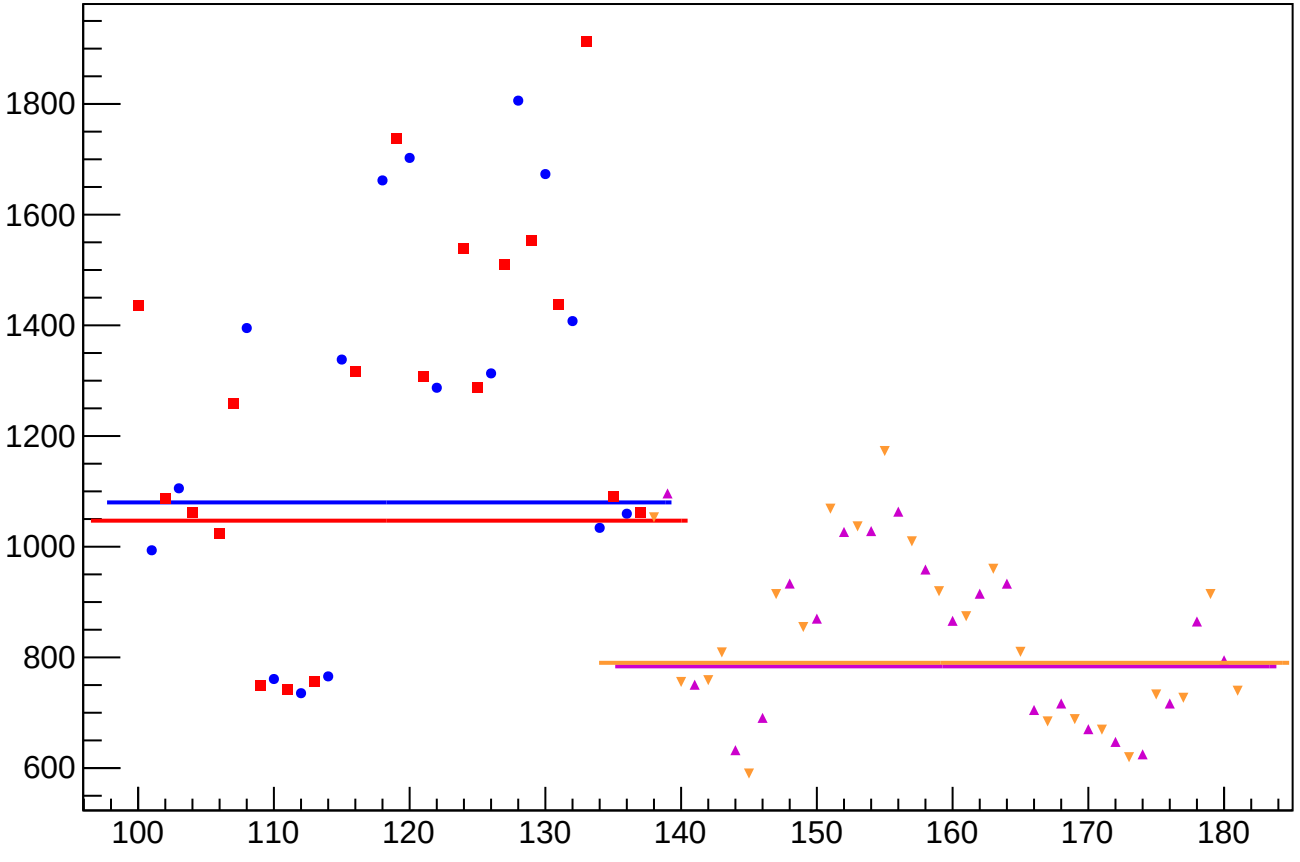
Right: 390.906+/-289.829 $\chi^2$/NDF: 40.8/34

In: 97.483+/-174.824 $\chi^2$/NDF:45.9/36

Out: -607.784+/-170.412 $\chi^2$/NDF:96.1/41

All: -264.163+/-122.030 $\chi^2$/NDF: 150.4/78

asym_sam_3748_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1080.045+/-0.297 $\chi^2$/NDF: 1053468.5/15

Left Out: 790.218+/-0.133 $\chi^2$/NDF:1189999.8/22

Right Out: 1047.068+/-0.283 $\chi^2$/NDF: 1198646.2/18

Left In: 783.821+/-0.136 $\chi^2$/NDF:1062098.2/20

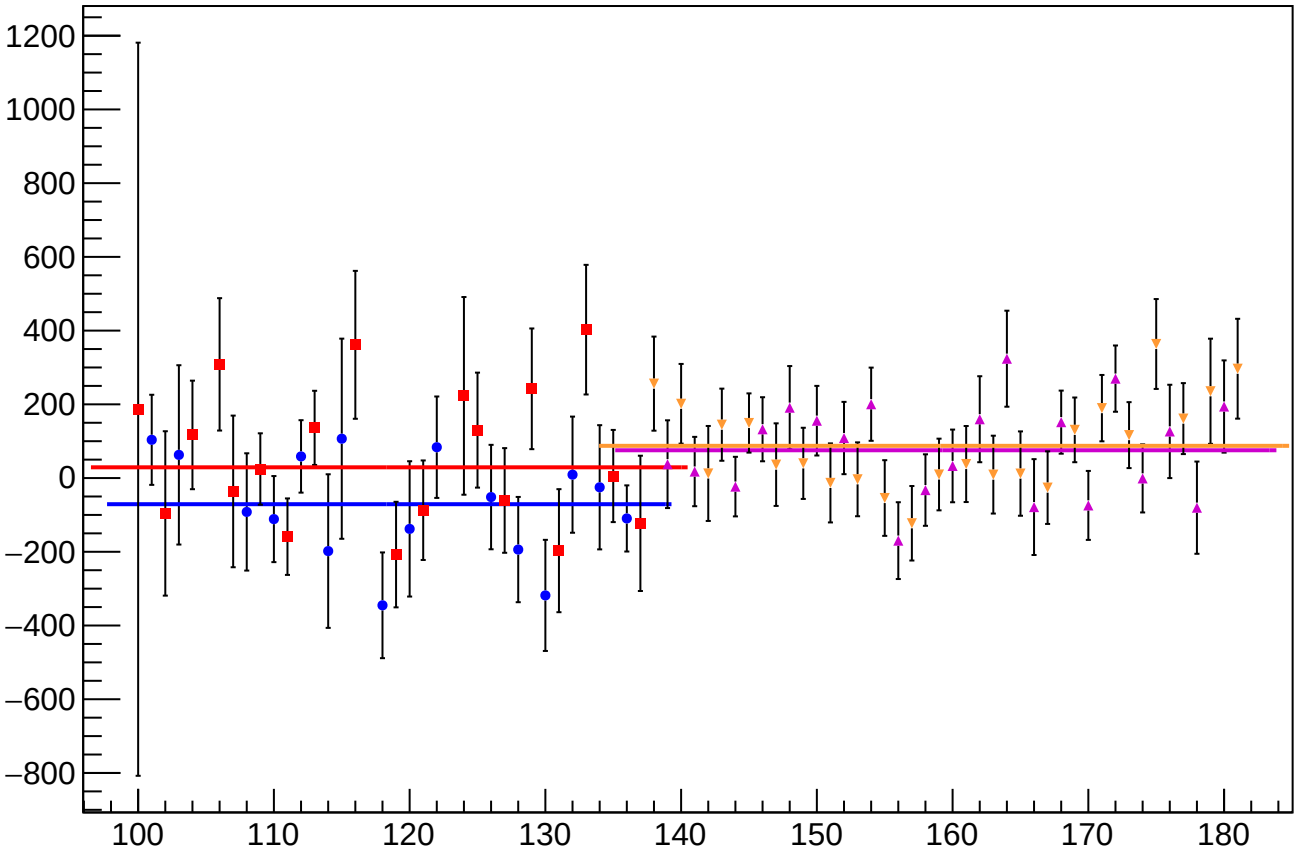
Left: 787.087+/-0.095 $\chi^2$/NDF: 2253227.9/43

Right: 1062.803+/-0.205 $\chi^2$/NDF: 2258574.4/34

In: 835.249+/-0.124 $\chi^2$/NDF:2939383.8/36

Out: 836.645+/-0.120 $\chi^2$/NDF:3061458.7/41

All: 835.965+/-0.086 $\chi^2$/NDF: 6000907.9/78




Right In: -70.903+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 87.445+/-21.522 $\chi^2$/NDF:26.5/22

Right Out: 29.159+/-34.247 $\chi^2$/NDF: 24.0/18

Left In: 75.408+/-22.139 $\chi^2$/NDF:29.7/20

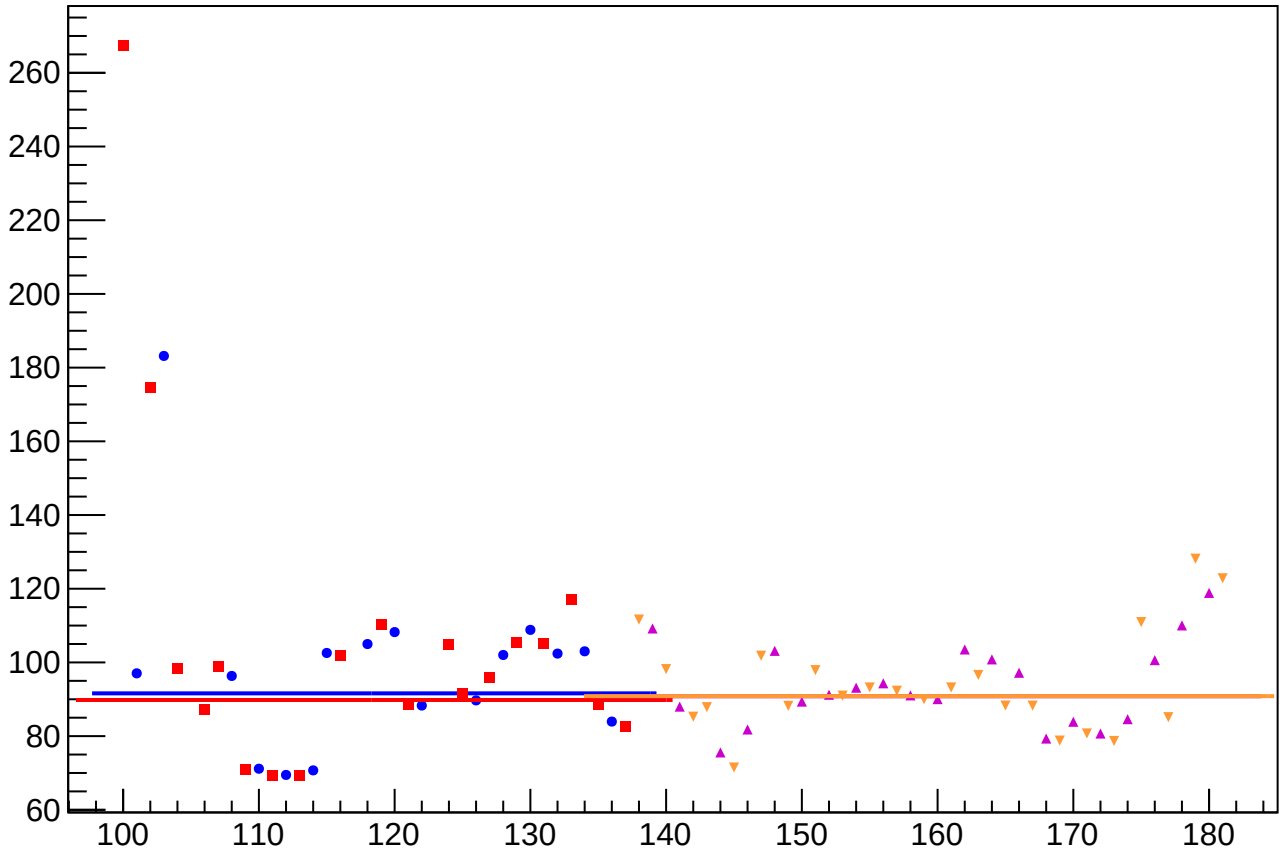
Left: 81.597+/-15.432 $\chi^2$/NDF: 56.4/43

Right: -19.610+/-24.520 $\chi^2$/NDF: 42.2/34

In: 33.805+/-18.728 $\chi^2$/NDF:56.2/36

Out: 70.944+/-18.222 $\chi^2$/NDF:52.6/41

All: 52.883+/-13.060 $\chi^2$/NDF: 110.8/78




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580675.9/15

Left Out: 90.851+/-0.015 $\chi^2$/NDF:634066.9/22

Right Out: 89.807+/-0.024 $\chi^2$/NDF: 746833.4/18

Left In: 90.819+/-0.016 $\chi^2$/NDF:451512.3/20

Left: 90.835+/-0.011 $\chi^2$/NDF: 1085581.3/43

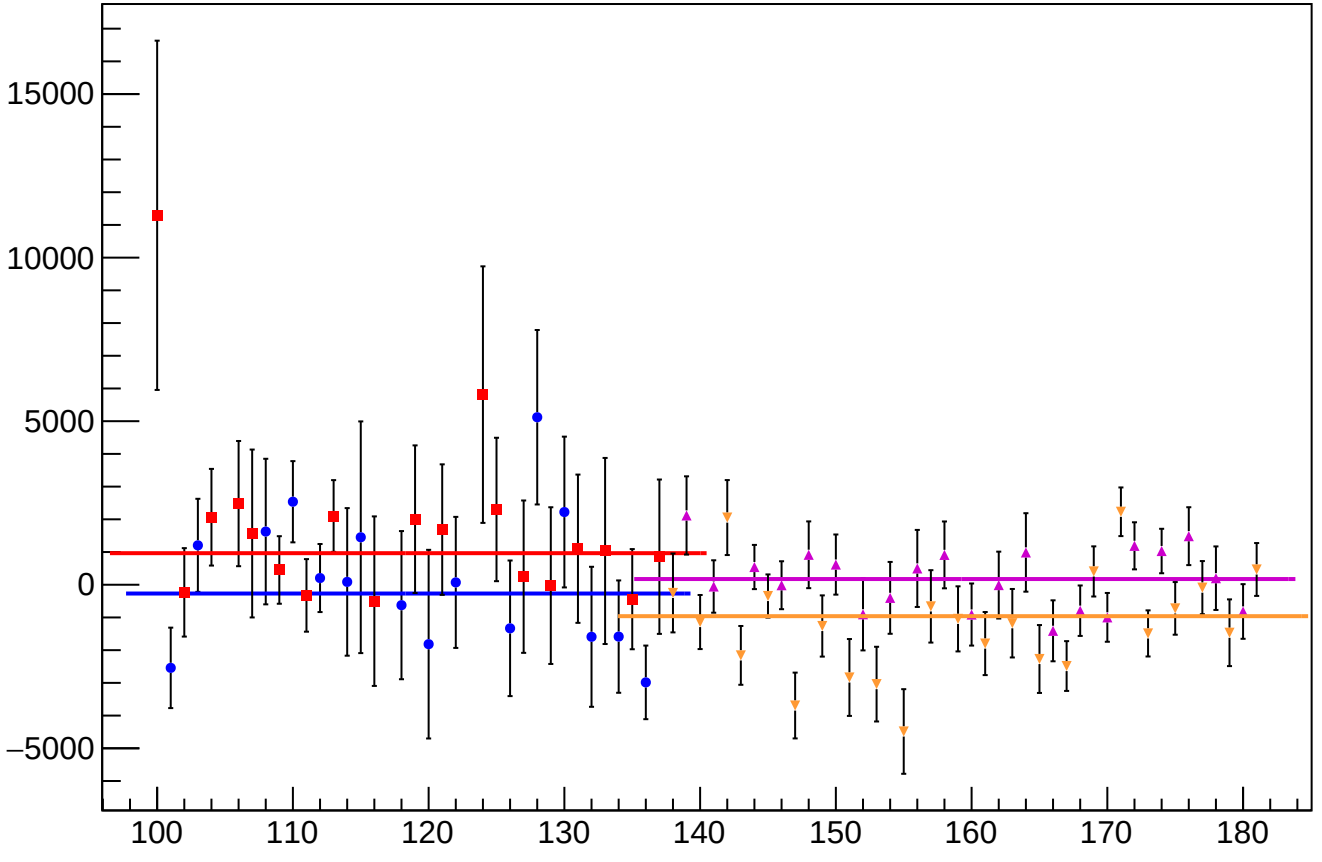
Right: 90.685+/-0.017 $\chi^2$/NDF: 1330205.1/34

In: 91.043+/-0.013 $\chi^2$/NDF:1032911.0/36

Out: 90.556+/-0.013 $\chi^2$/NDF:1382233.0/41

All: 90.793+/-0.009 $\chi^2$/NDF: 2415840.5/78

asym_sam_3748_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -268.506+/-419.581 $\chi^2$/NDF: 23.4/15

Left Out: -960.900+/-188.276 $\chi^2$/NDF:64.0/22

Right Out: 964.986+/-401.633 $\chi^2$/NDF: 12.1/18

Left In: 174.369+/-192.314 $\chi^2$/NDF:21.6/20

Left: -405.309+/-134.536 $\chi^2$/NDF: 103.3/43

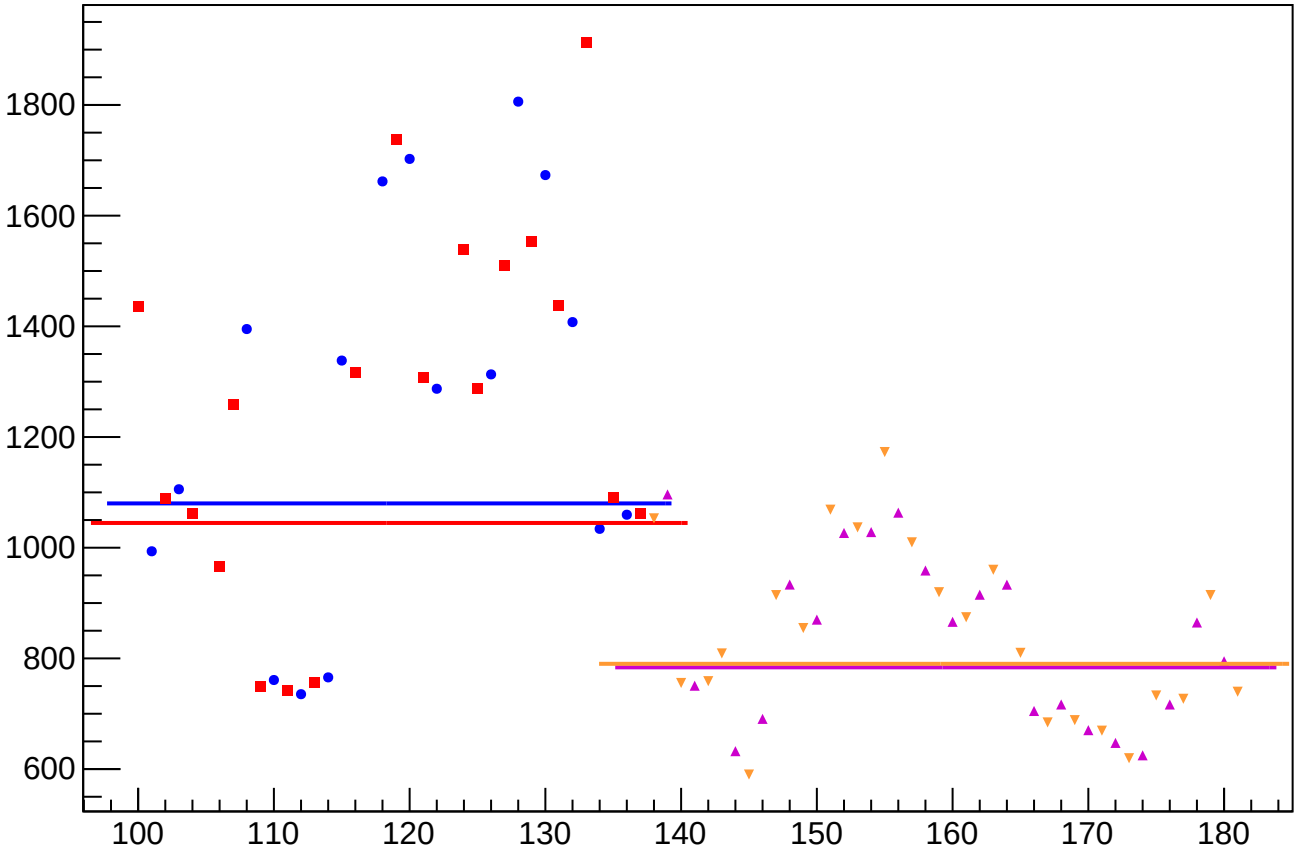
Right: 375.186+/-290.135 $\chi^2$/NDF: 40.1/34

In: 97.481+/-174.825 $\chi^2$/NDF:45.9/36

Out: -613.932+/-170.474 $\chi^2$/NDF:94.9/41

All: -267.187+/-122.052 $\chi^2$/NDF: 149.4/78

asym_sam_3748_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1080.054+/-0.297 $\chi^2$/NDF: 1053475.0/15

Left Out: 790.217+/-0.133 $\chi^2$/NDF:1190001.3/22

Right Out: 1044.717+/-0.284 $\chi^2$/NDF: 1201825.8/18

Left In: 783.821+/-0.136 $\chi^2$/NDF:1062098.1/20

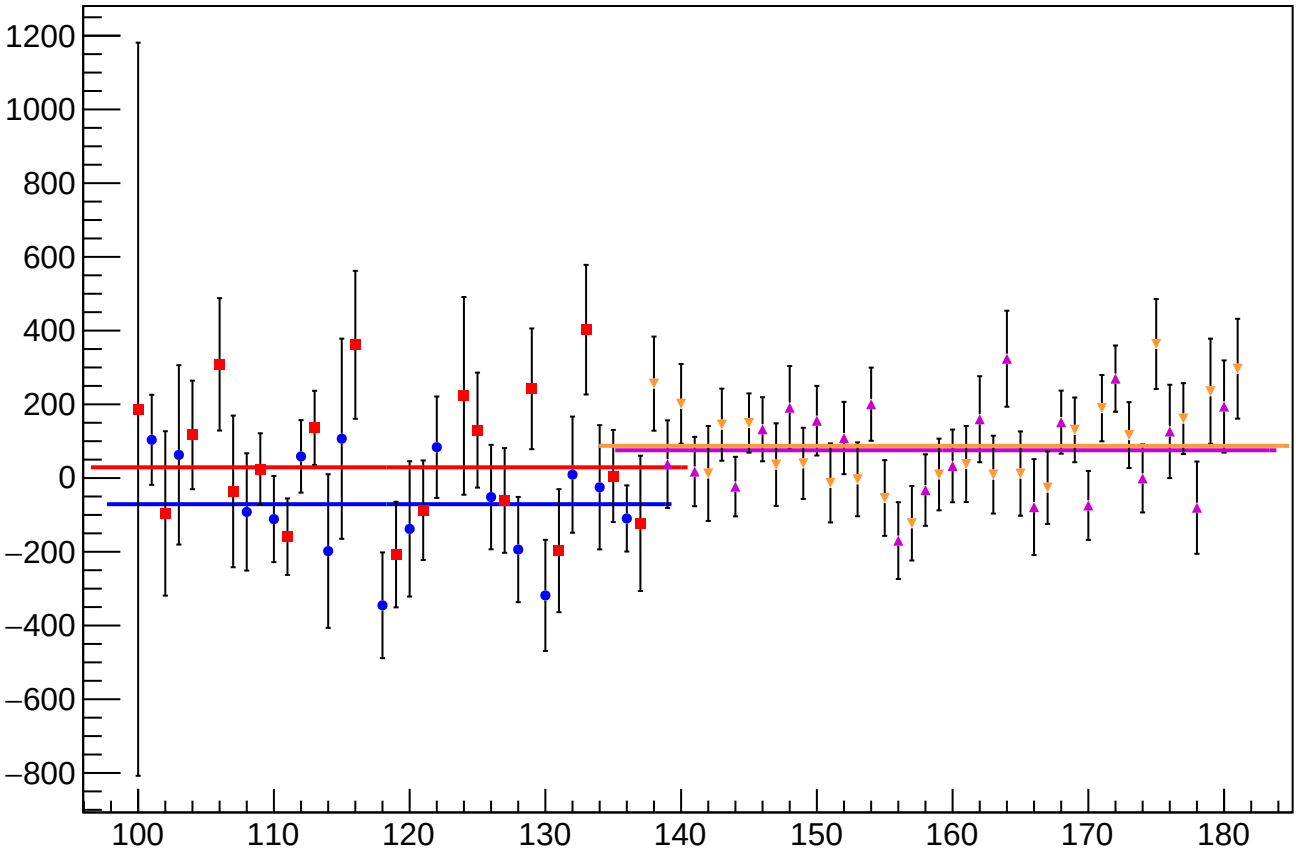
Left: 787.087+/-0.095 $\chi^2$/NDF: 2253229.1/43

Right: 1061.613+/-0.205 $\chi^2$/NDF: 2262703.7/34

In: 835.250+/-0.124 $\chi^2$/NDF:2939425.7/36

Out: 836.068+/-0.121 $\chi^2$/NDF:3050202.3/41

All: 835.669+/-0.086 $\chi^2$/NDF: 5989650.5/78




Right In: -70.903+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 87.445+/-21.522 $\chi^2$/NDF:26.5/22

Right Out: 29.159+/-34.247 $\chi^2$/NDF: 24.0/18

Left In: 75.408+/-22.139 $\chi^2$/NDF:29.7/20

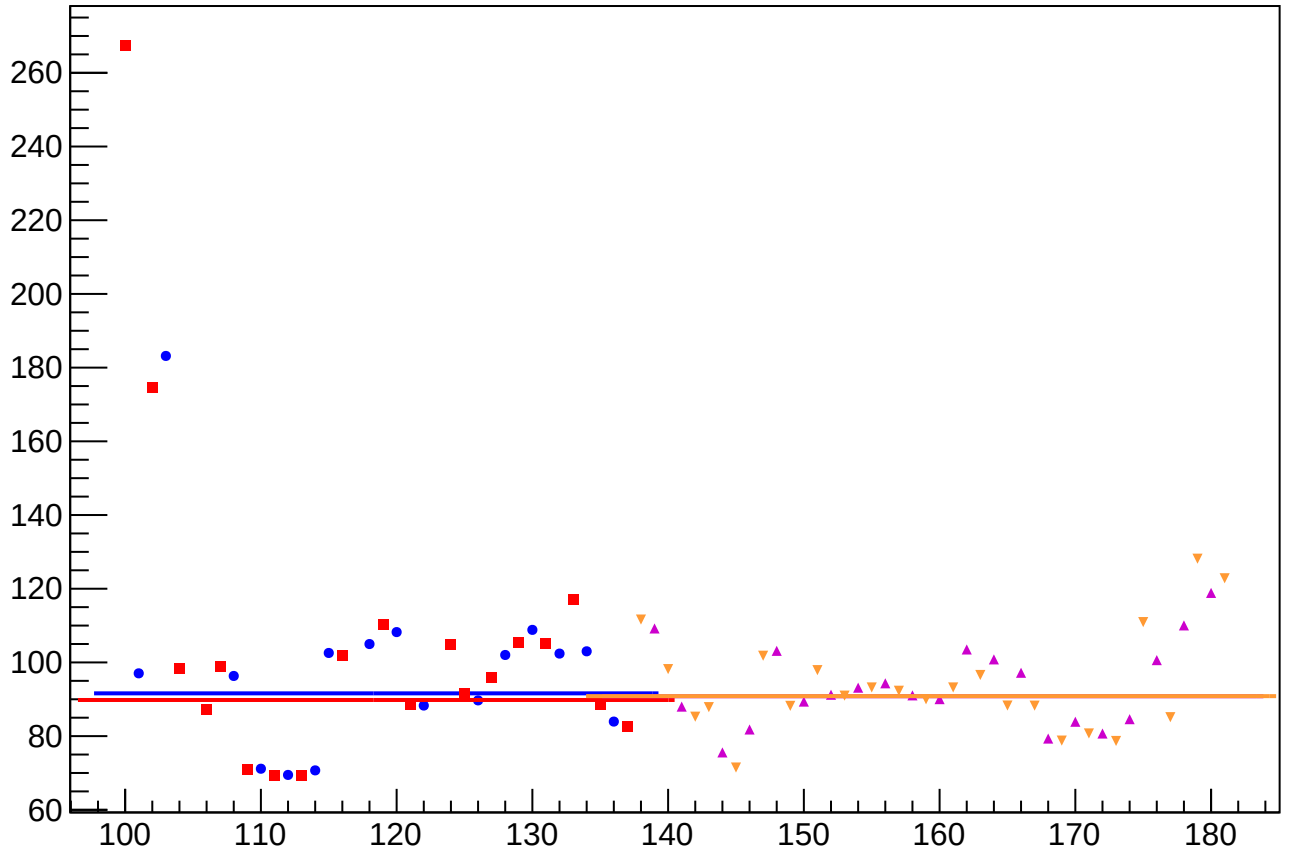
Left: 81.597+/-15.432 $\chi^2$/NDF: 56.4/43

Right: -19.610+/-24.520 $\chi^2$/NDF: 42.2/34

In: 33.805+/-18.728 $\chi^2$/NDF:56.2/36

Out: 70.944+/-18.222 $\chi^2$/NDF:52.6/41

All: 52.883+/-13.060 $\chi^2$/NDF: 110.8/78




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580675.9/15

Left Out: 90.851+/-0.015 $\chi^2$/NDF:634066.9/22

Right Out: 89.807+/-0.024 $\chi^2$/NDF: 746833.4/18

Left In: 90.819+/-0.016 $\chi^2$/NDF:451512.3/20

Left: 90.835+/-0.011 $\chi^2$/NDF: 1085581.3/43

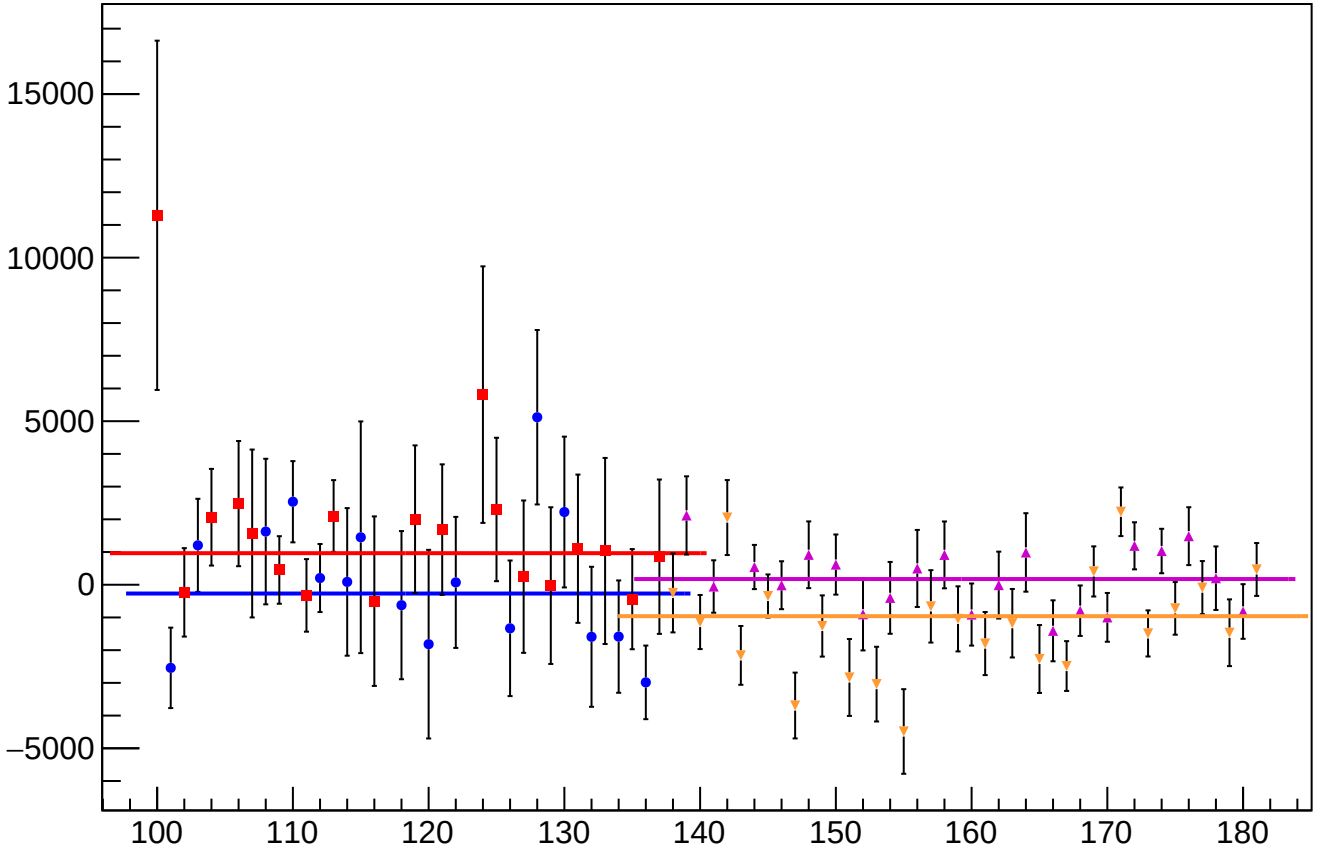
Right: 90.685+/-0.017 $\chi^2$/NDF: 1330205.1/34

In: 91.043+/-0.013 $\chi^2$/NDF:1032911.0/36

Out: 90.556+/-0.013 $\chi^2$/NDF:1382233.0/41

All: 90.793+/-0.009 $\chi^2$/NDF: 2415840.5/78

asym_sam_3748_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -268.506+/-419.581 $\chi^2$/NDF: 23.4/15

Left Out: -960.900+/-188.276 $\chi^2$/NDF:64.0/22

Right Out: 964.986+/-401.633 $\chi^2$/NDF: 12.1/18

Left In: 174.369+/-192.314 $\chi^2$/NDF:21.6/20

Left: -405.309+/-134.536 $\chi^2$/NDF: 103.3/43

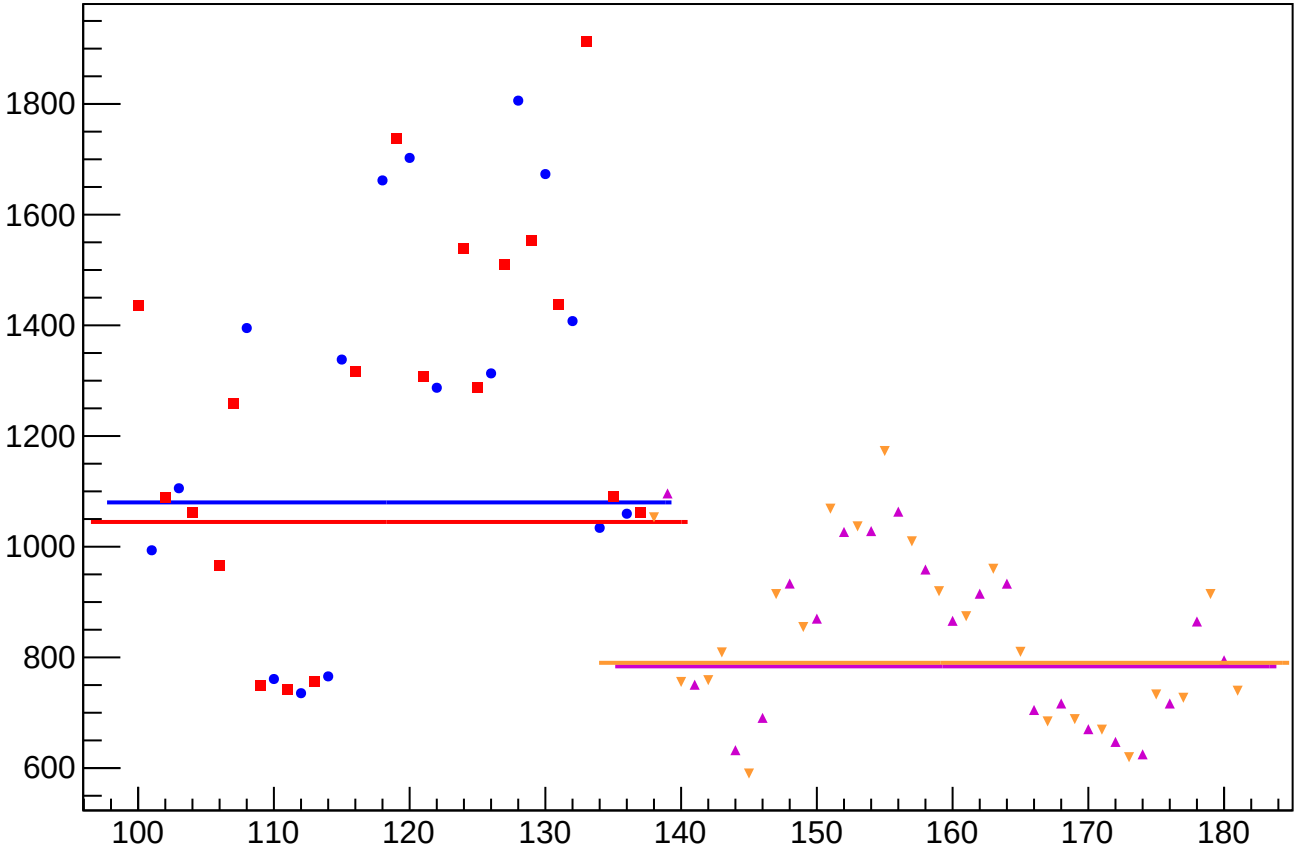
Right: 375.186+/-290.135 $\chi^2$/NDF: 40.1/34

In: 97.481+/-174.825 $\chi^2$/NDF:45.9/36

Out: -613.932+/-170.474 $\chi^2$/NDF:94.9/41

All: -267.187+/-122.052 $\chi^2$/NDF: 149.4/78

asym_sam_3748_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1080.054+/-0.297 $\chi^2$/NDF: 1053475.0/15

Left Out: 790.217+/-0.133 $\chi^2$/NDF:1190001.3/22

Right Out: 1044.717+/-0.284 $\chi^2$/NDF: 1201825.8/18

Left In: 783.821+/-0.136 $\chi^2$/NDF:1062098.1/20

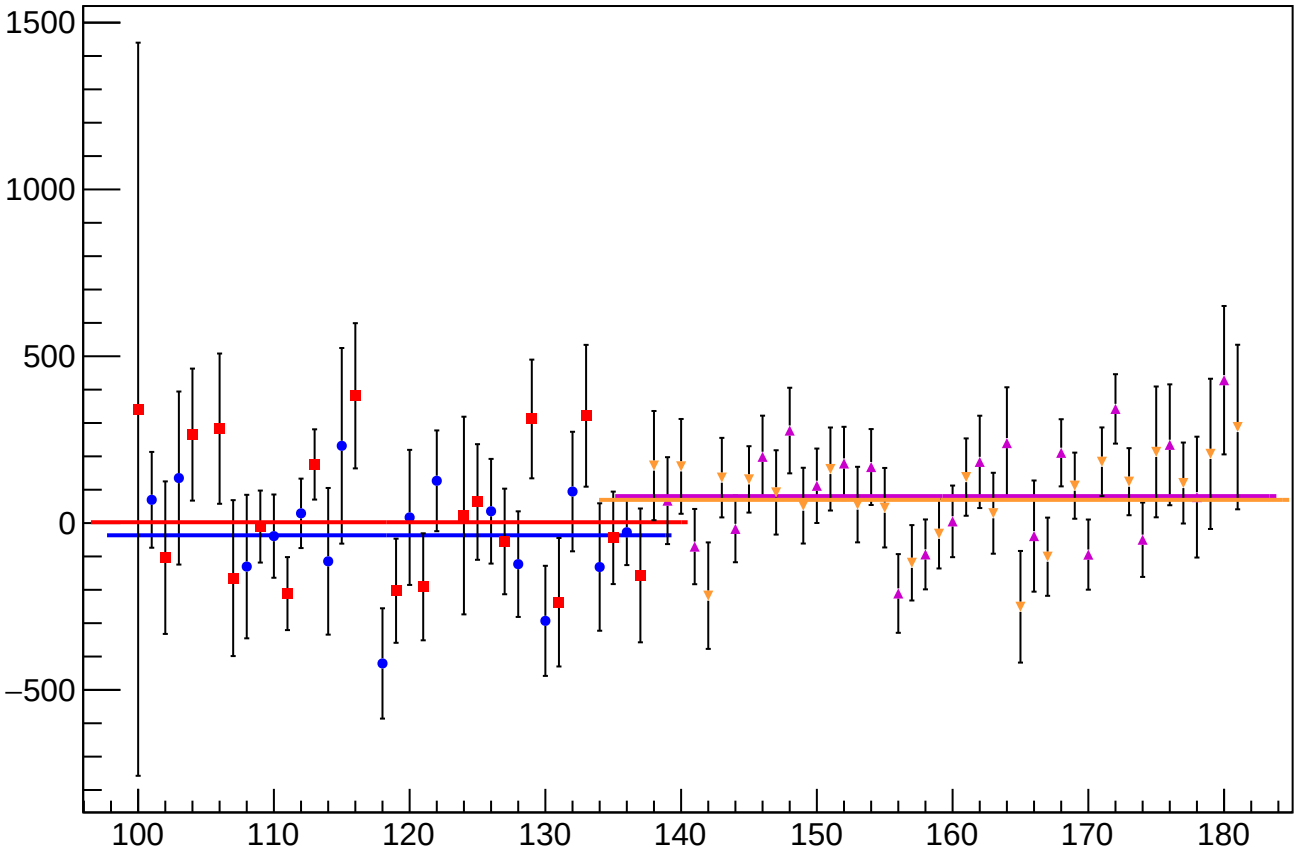
Left: 787.087+/-0.095 $\chi^2$/NDF: 2253229.1/43

Right: 1061.613+/-0.205 $\chi^2$/NDF: 2262703.7/34

In: 835.250+/-0.124 $\chi^2$/NDF:2939425.7/36

Out: 836.068+/-0.121 $\chi^2$/NDF:3050202.3/41

All: 835.669+/-0.086 $\chi^2$/NDF: 5989650.5/78




Right In: -36.590+/-38.991 $\chi^2$/NDF: 12.9/15

Left Out: 69.589+/-25.839 $\chi^2$/NDF:19.0/22

Right Out: 2.568+/-38.165 $\chi^2$/NDF: 24.7/18

Left In: 80.819+/-26.524 $\chi^2$/NDF:34.1/20

Left: 75.057+/-18.508 $\chi^2$/NDF: 53.3/43

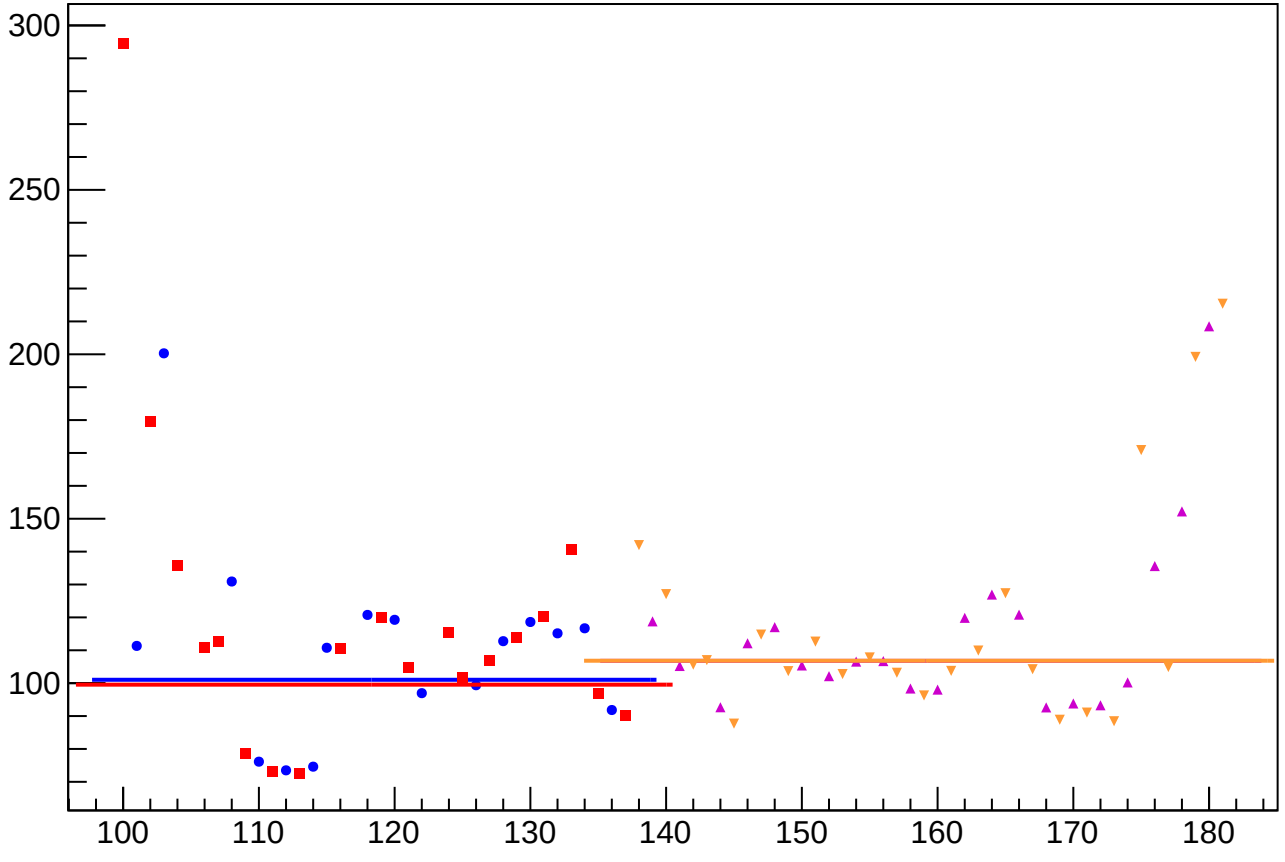
Right: -16.592+/-27.274 $\chi^2$/NDF: 38.1/34

In: 43.676+/-21.931 $\chi^2$/NDF:53.2/36

Out: 48.524+/-21.396 $\chi^2$/NDF:45.9/41

All: 46.159+/-15.315 $\chi^2$/NDF: 99.2/78

# dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 101.031+/-0.028 $\chi^2$/NDF: 716095.9/15

Left Out: 106.823+/-0.018 $\chi^2$/NDF:1397812.6/22

Right Out: 99.547+/-0.027 $\chi^2$/NDF: 880497.8/18

Left In: 106.777+/-0.019 $\chi^2$/NDF:870555.9/20

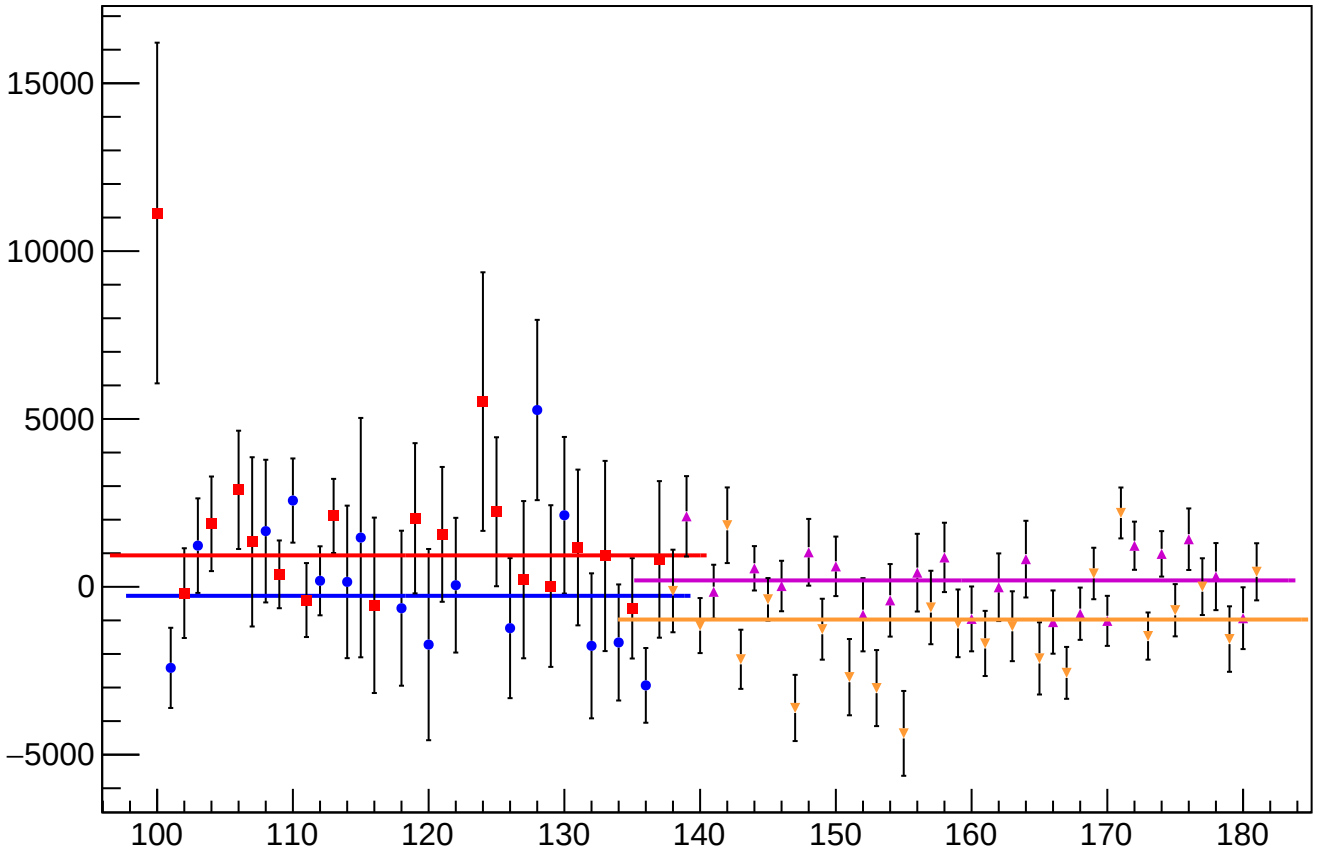
Left: 106.801+/-0.013 $\chi^2$/NDF: 2268371.7/43

Right: 100.273+/-0.019 $\chi^2$/NDF: 1598073.3/34

In: 104.959+/-0.016 $\chi^2$/NDF:1616343.6/36

Out: 104.536+/-0.015 $\chi^2$/NDF:2328160.3/41

All: 104.743+/-0.011 $\chi^2$/NDF: 3944884.8/78




Right In: -267.886+/-417.061 $\chi^2$/NDF: 23.5/15

Left Out: -974.062+/-187.537 $\chi^2$/NDF:61.4/22

Right Out: 936.734+/-396.234 $\chi^2$/NDF: 13.1/18

Left In: 191.172+/-192.934 $\chi^2$/NDF:20.1/20

Left: -407.972+/-134.476 $\chi^2$/NDF: 100.2/43

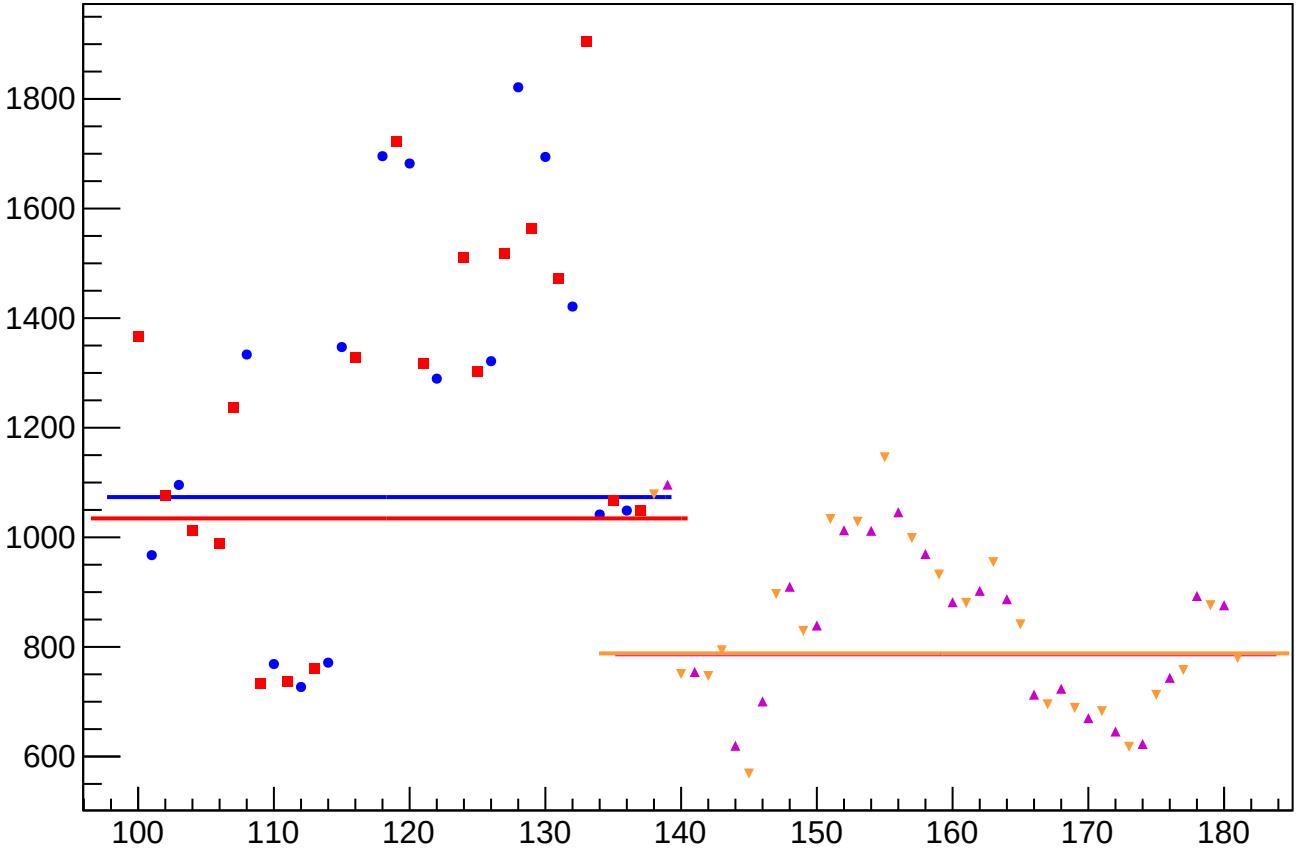
Right: 365.251+/-287.261 $\chi^2$/NDF: 41.0/34

In: 110.250+/-175.105 $\chi^2$/NDF:44.6/36

Out: -624.360+/-169.509 $\chi^2$/NDF:93.5/41

All: -268.981+/-121.792 $\chi^2$/NDF: 147.2/78

asym_sam_3748_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1073.456+/-0.295 $\chi^2$/NDF: 1077055.9/15

Left Out: 788.206+/-0.133 $\chi^2$/NDF:1175109.0/22

Right Out: 1034.535+/-0.280 $\chi^2$/NDF: 1229344.1/18

Left In: 786.555+/-0.136 $\chi^2$/NDF:1040461.7/20

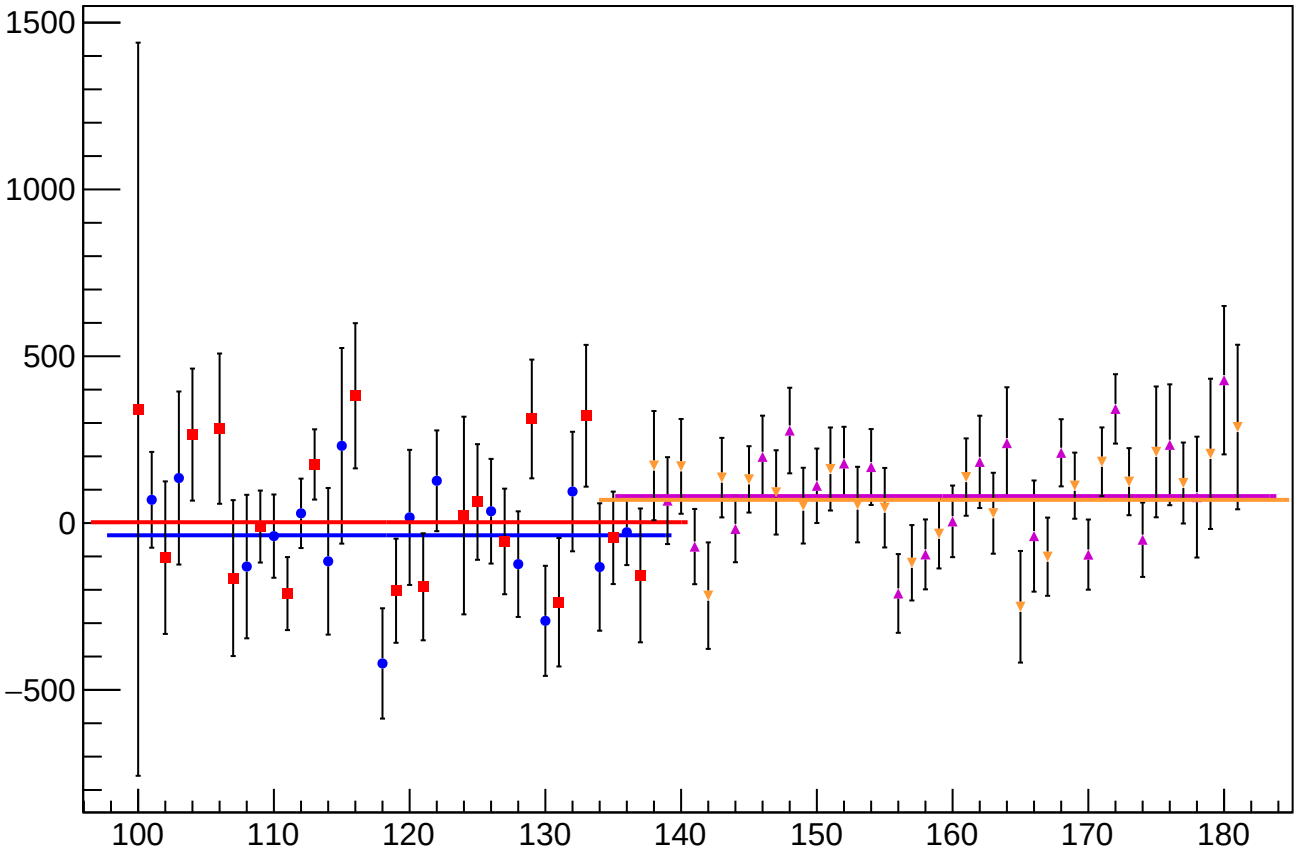
Left: 787.404+/-0.095 $\chi^2$/NDF: 2215645.9/43

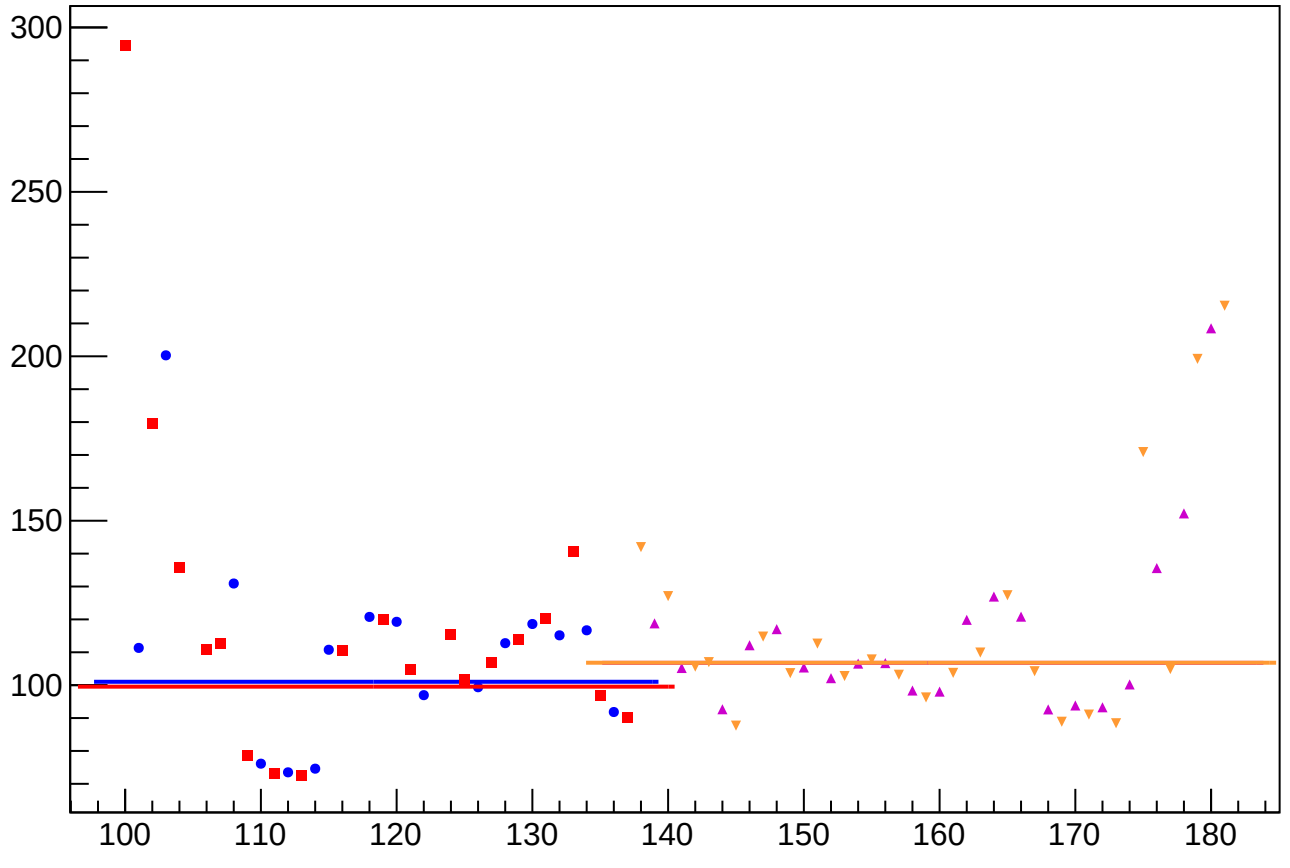
Right: 1052.999+/-0.203 $\chi^2$/NDF: 2315554.6/34

In: 837.130+/-0.124 $\chi^2$/NDF:2897118.9/36

Out: 833.287+/-0.120 $\chi^2$/NDF:3035951.4/41

All: 835.146+/-0.086 $\chi^2$/NDF: 5933567.5/78


eigen_dit_asym_sam_3748_avg_mean vs Slug, Sign Corrected
1500
1000
500
0
−500
100
110
120
130
140
150
160
170
180
Right In: -36.589+/-38.991 χ²/NDF: 12.9/15
Left Out: 69.590+/-25.839 χ²/NDF:19.0/22
Right Out: 2.566+/-38.165 χ²/NDF: 24.7/18
Left In: 80.818+/-26.524 χ²/NDF:34.1/20
Left: 75.058+/-18.508 χ²/NDF: 53.3/43
Right: -16.593+/-27.274 χ²/NDF: 38.1/34
In: 43.676+/-21.931 χ²/NDF:53.2/36
Out: 48.524+/-21.397 χ²/NDF:45.9/41
All: 46.160+/-15.315 χ²/NDF: 99.2/78




Right In: 101.031+/-0.028 $\chi^2$/NDF: 716094.5/15

Left Out: 106.824+/-0.018 $\chi^2$/NDF:1397810.8/22

Right Out: 99.547+/-0.027 $\chi^2$/NDF: 880499.8/18

Left In: 106.777+/-0.019 $\chi^2$/NDF:870538.2/20

Left: 106.801+/-0.013 $\chi^2$/NDF: 2268352.2/43

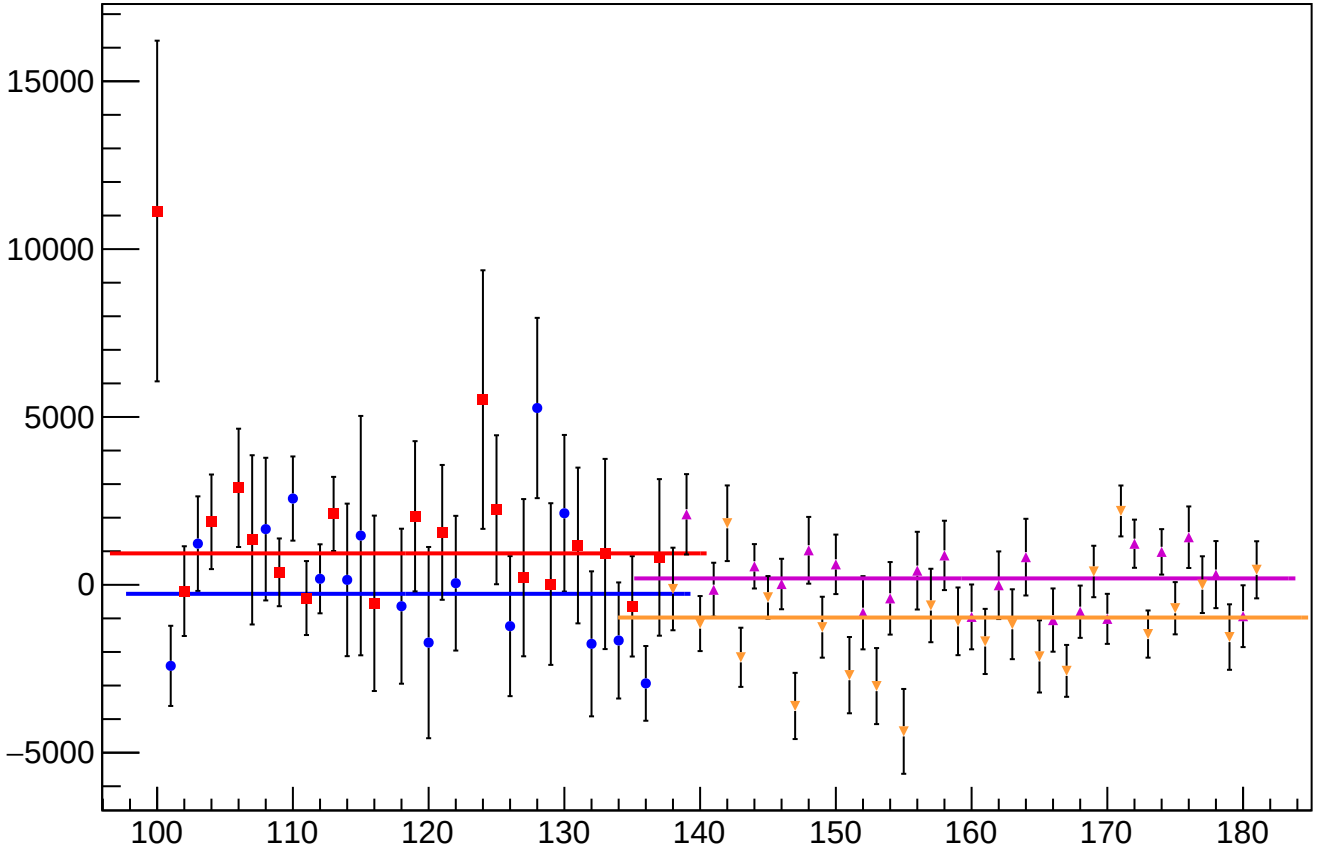
Right: 100.273+/-0.019 $\chi^2$/NDF: 1598074.0/34

In: 104.960+/-0.016 $\chi^2$/NDF:1616326.3/36

Out: 104.537+/-0.015 $\chi^2$/NDF:2328162.8/41

All: 104.743+/-0.011 $\chi^2$/NDF: 3944869.9/78

asym_sam_3748_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -267.885+/-417.061 $\chi^2$/NDF: 23.5/15

Left Out: -974.061+/-187.536 $\chi^2$/NDF:61.4/22

Right Out: 936.732+/-396.234 $\chi^2$/NDF: 13.1/18

Left In: 191.171+/-192.934 $\chi^2$/NDF:20.1/20

Left: -407.972+/-134.476 $\chi^2$/NDF: 100.2/43

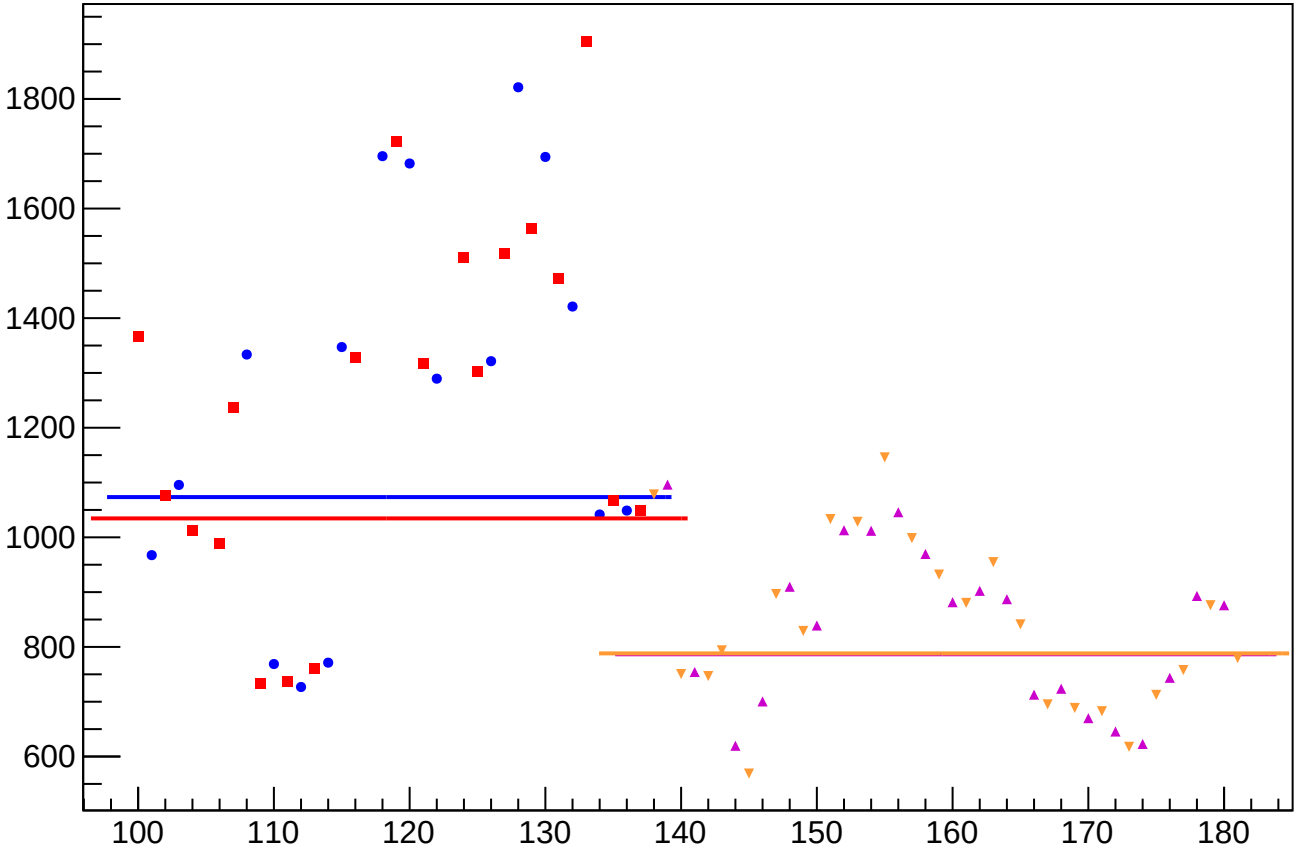
Right: 365.251+/-287.260 $\chi^2$/NDF: 41.0/34

In: 110.249+/-175.105 $\chi^2$/NDF:44.6/36

Out: -624.360+/-169.509 $\chi^2$/NDF:93.5/41

All: -268.981+/-121.791 $\chi^2$/NDF: 147.2/78

asym_sam_3748_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1073.454+/-0.295 $\chi^2$/NDF: 1077061.8/15

Left Out: 788.204+/-0.133 $\chi^2$/NDF:1175111.6/22

Right Out: 1034.533+/-0.280 $\chi^2$/NDF: 1229346.7/18

Left In: 786.554+/-0.136 $\chi^2$/NDF:1040461.8/20

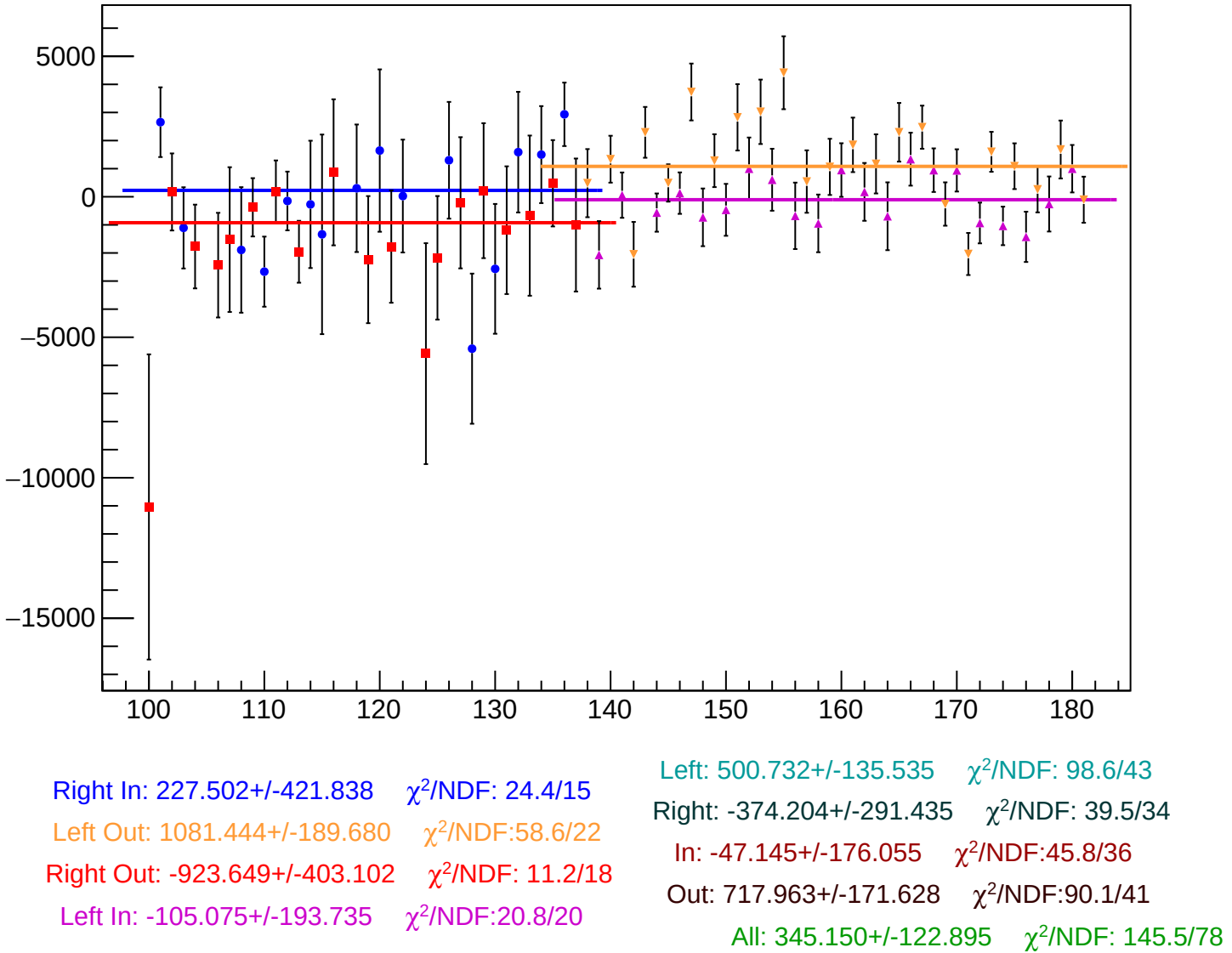
Left: 787.402+/-0.095 $\chi^2$/NDF: 2215648.7/43

Right: 1052.997+/-0.203 $\chi^2$/NDF: 2315562.9/34

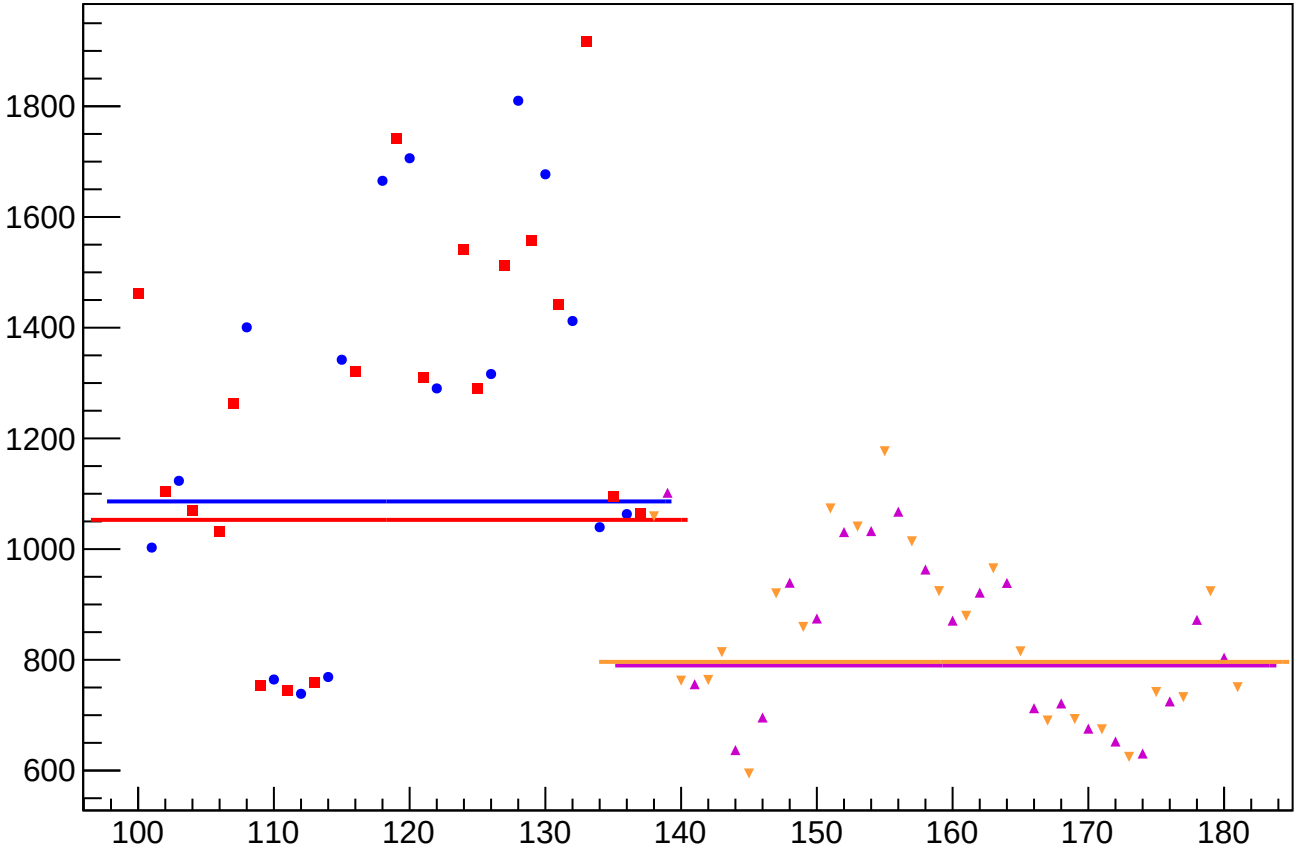
In: 837.128+/-0.124 $\chi^2$/NDF:2897124.7/36

Out: 833.286+/-0.120 $\chi^2$/NDF:3035957.3/41

All: 835.145+/-0.086 $\chi^2$/NDF: 5933579.1/78


asym_sam_3748_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
100
110
120
130
140
150
160
170
180
Right In: 227.502+/-421.838 χ²/NDF: 24.4/15
Left Out: 1081.444+/-189.680 χ²/NDF:58.6/22
Right Out: -923.649+/-403.102 χ²/NDF: 11.2/18
Left In: -105.075+/-193.735 χ²/NDF:20.8/20
Left: 500.732+/-135.535 χ²/NDF: 98.6/43
Right: -374.204+/-291.435 χ²/NDF: 39.5/34
In: -47.145+/-176.055 χ²/NDF:45.8/36
Out: 717.963+/-171.628 χ²/NDF:90.1/41
All: 345.150+/-122.895 χ²/NDF: 145.5/78

# asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 1086.137+/-0.298 $\chi^2$/NDF: 1047479.6/15

Left Out: 796.310+/-0.134 $\chi^2$/NDF:1173494.9/22

Right Out: 1052.831+/-0.285 $\chi^2$/NDF: 1194420.8/18

Left In: 789.800+/-0.137 $\chi^2$/NDF:1046731.4/20

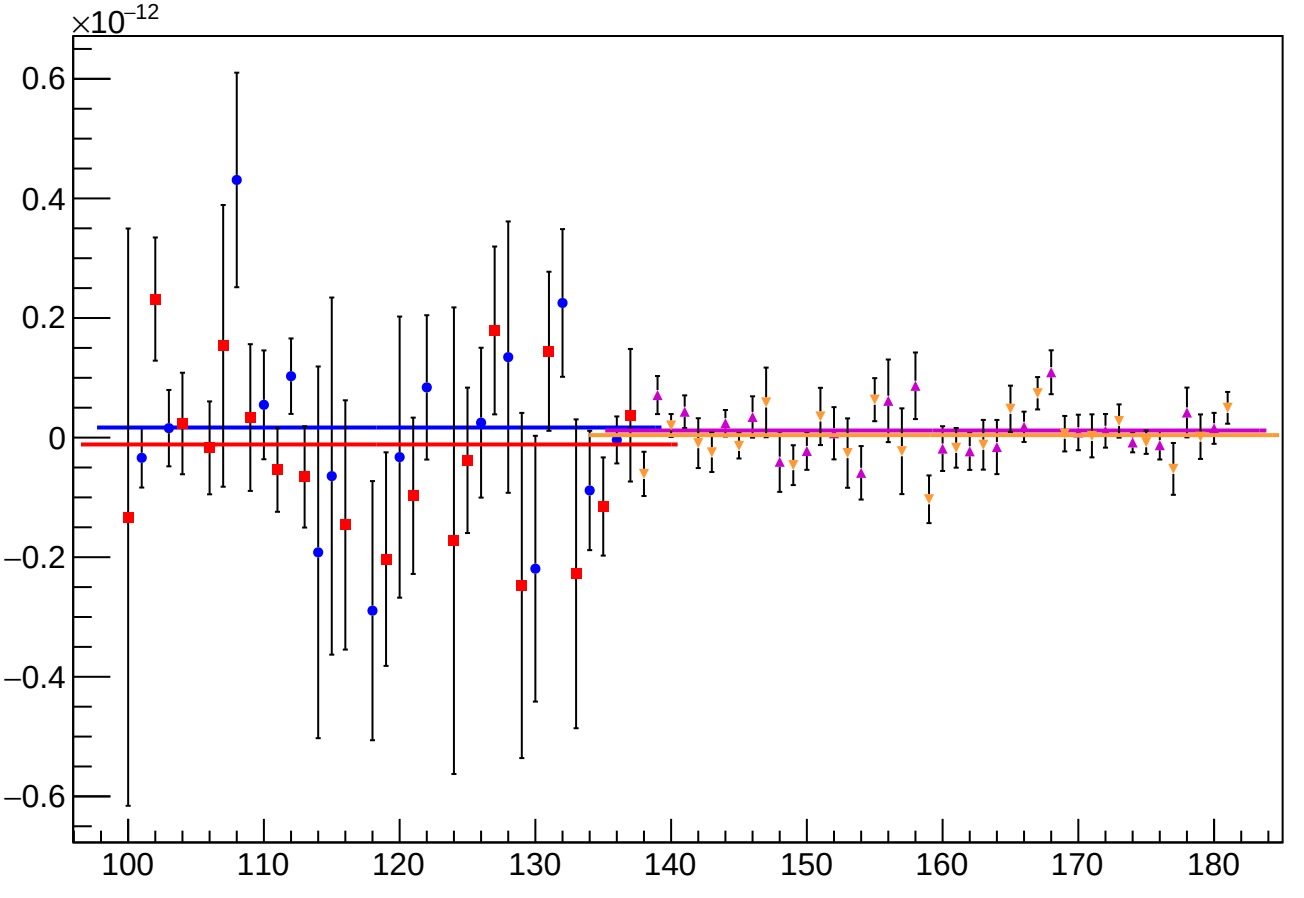
Left: 793.124+/-0.096 $\chi^2$/NDF: 2221379.1/43

Right: 1068.728+/-0.206 $\chi^2$/NDF: 2248417.5/34

In: 841.417+/-0.124 $\chi^2$/NDF:2909279.9/36

Out: 842.812+/-0.121 $\chi^2$/NDF:3031019.1/41

All: 842.132+/-0.087 $\chi^2$/NDF: 5940363.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:33.6/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.1/20

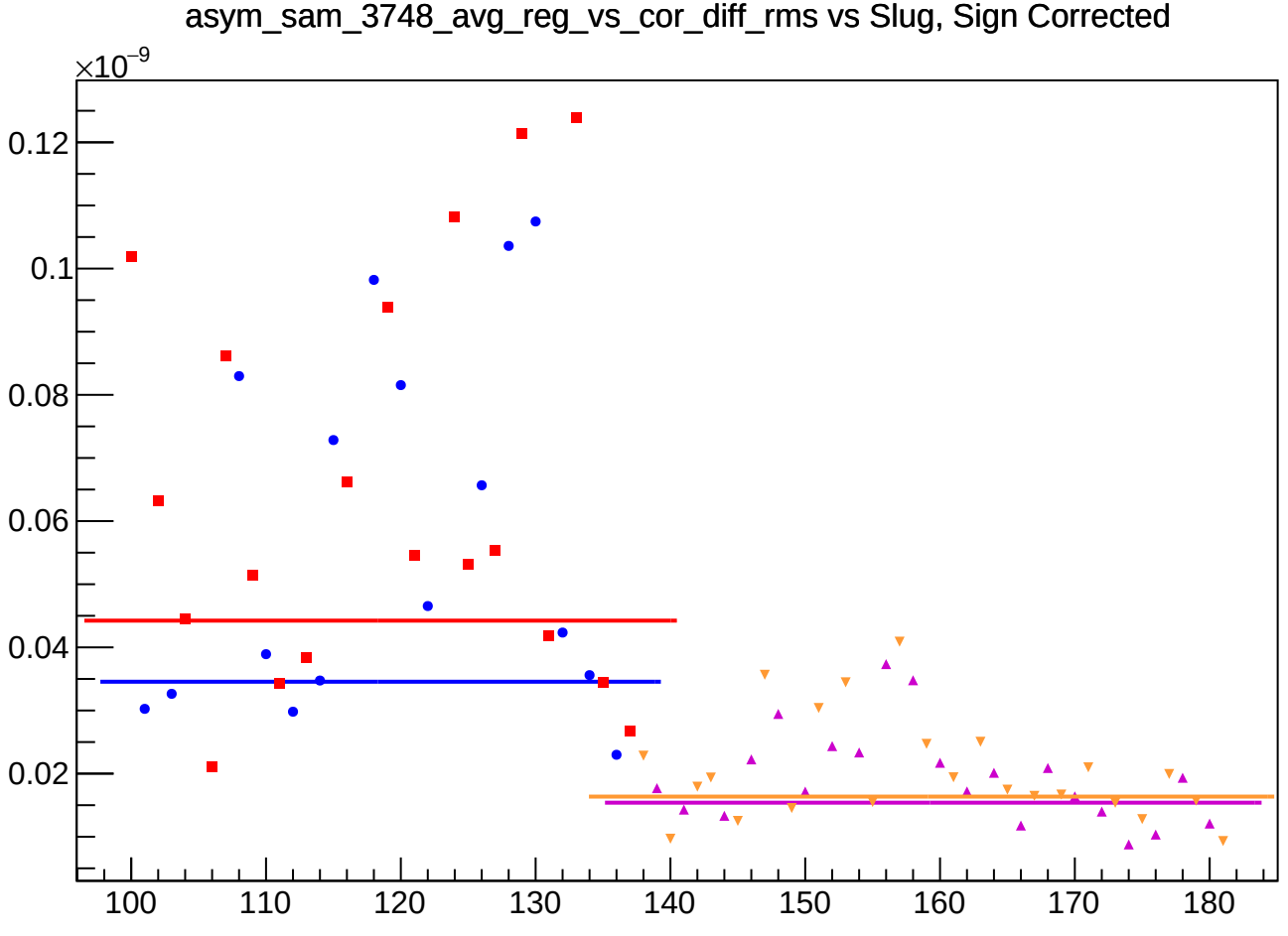
Left: 0.000+/-0.000 $\chi^2$/NDF: 59.3/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:42.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:49.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 92.8/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1188815.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1667463.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1073061.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1501482.4/20

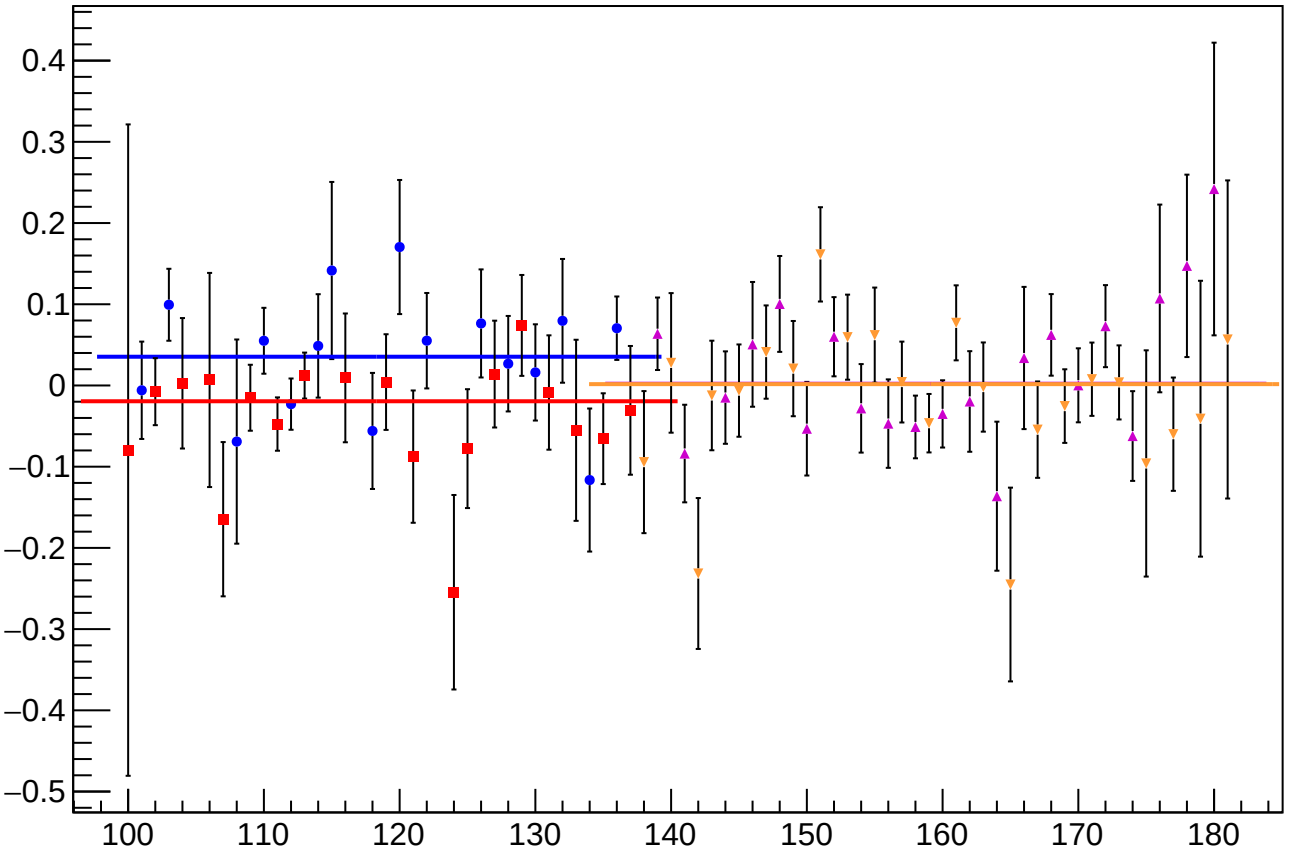
Left: 0.000+/-0.000 $\chi^2$/NDF: 3189939.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 2418011.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:4100647.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4765434.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8887153.4/78




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: 0.002+/-0.012 $\chi^2$/NDF:29.5/22

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.002+/-0.012 $\chi^2$/NDF:24.9/20

Left: 0.002+/-0.009 $\chi^2$/NDF: 54.4/43

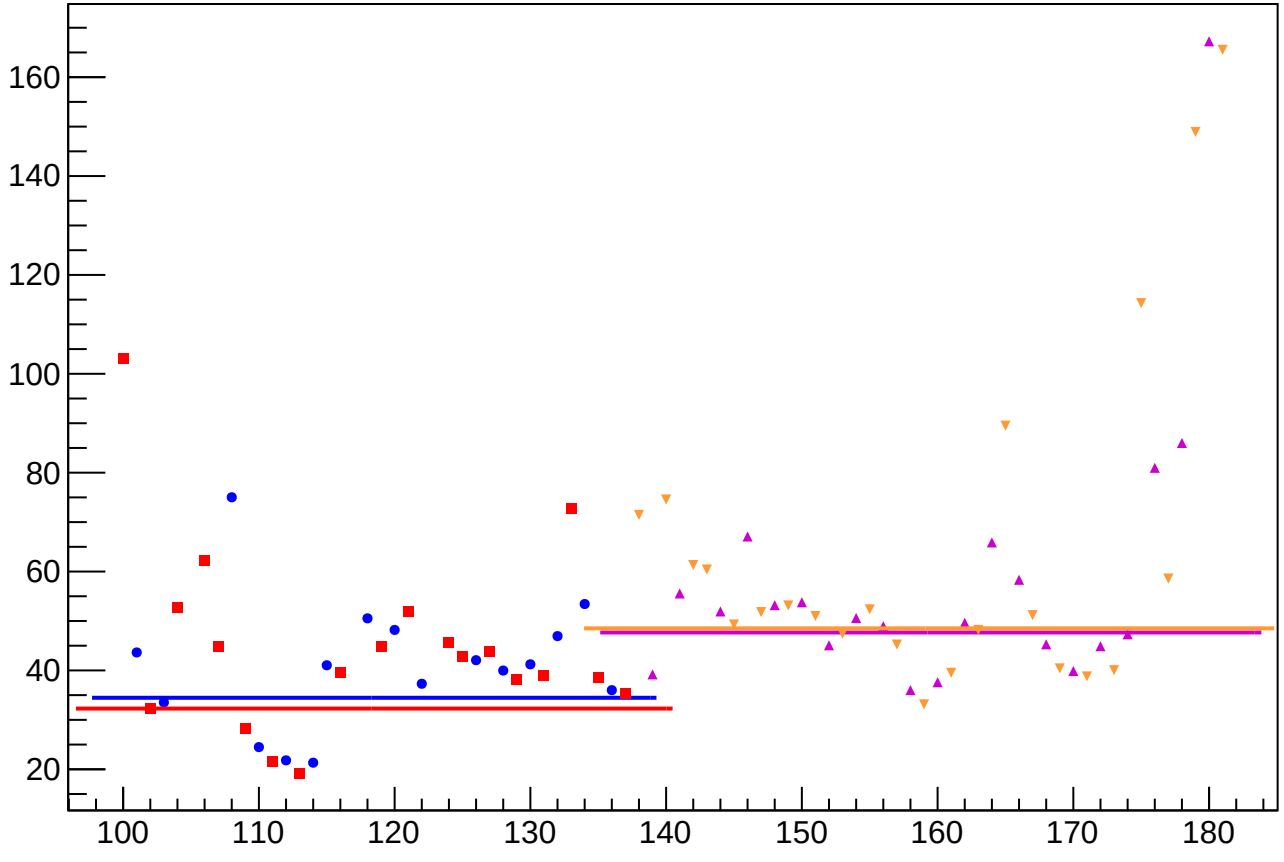
Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.017+/-0.009 $\chi^2$/NDF:45.1/36

Out: -0.008+/-0.009 $\chi^2$/NDF:44.3/41

All: 0.004+/-0.006 $\chi^2$/NDF: 93.1/78

asym_sam_3748_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.468+/-0.010 $\chi^2$/NDF: 1171203.3/15

Left Out: 48.512+/-0.009 $\chi^2$/NDF:3270573.6/22

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672637.0/18

Left In: 47.673+/-0.009 $\chi^2$/NDF:2058661.3/20

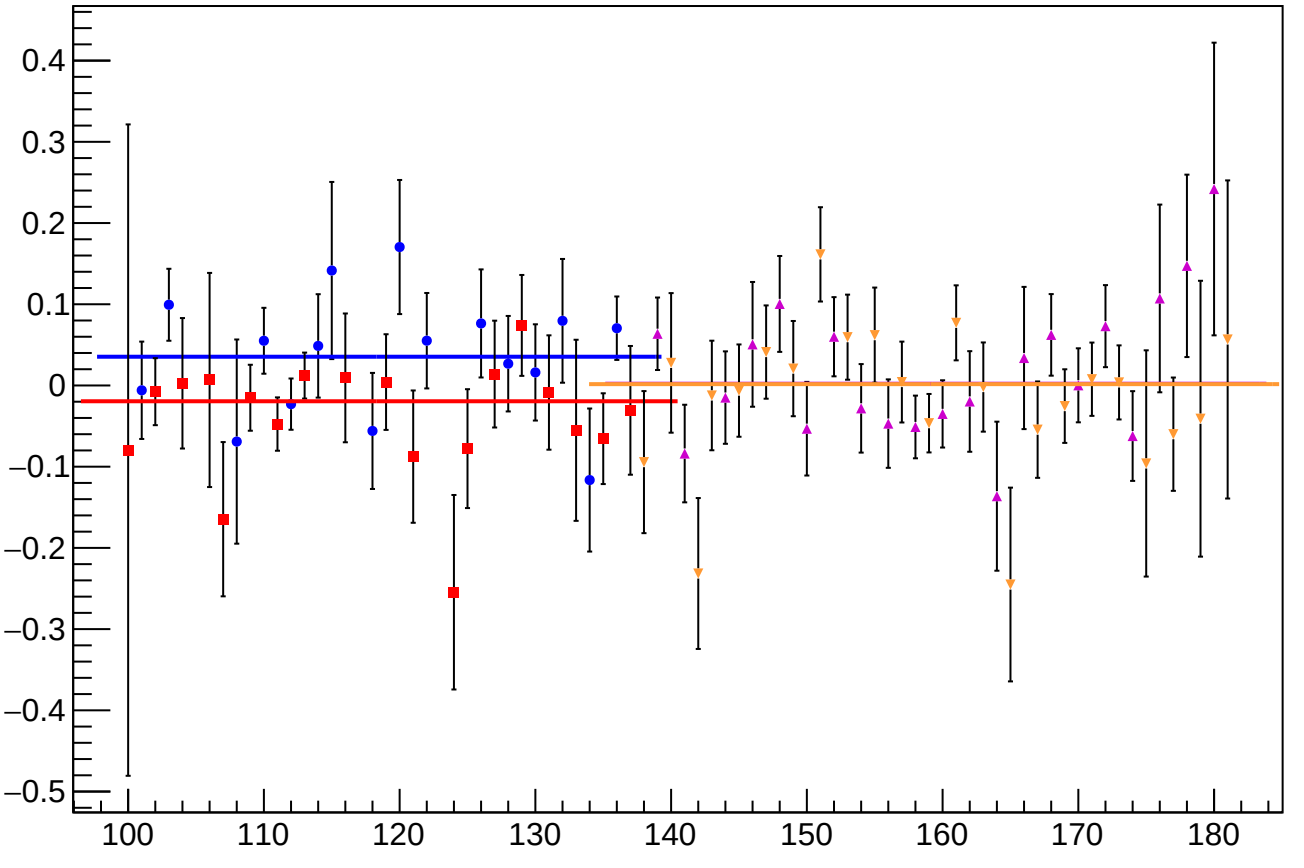
Left: 48.095+/-0.006 $\chi^2$/NDF: 5333824.9/43

Right: 33.314+/-0.007 $\chi^2$/NDF: 2869944.8/34

In: 41.809+/-0.007 $\chi^2$/NDF:4234584.9/36

Out: 40.895+/-0.006 $\chi^2$/NDF:6565861.0/41

All: 41.339+/-0.005 $\chi^2$/NDF: 10810471.6/78




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: 0.002+/-0.012 $\chi^2$/NDF:29.5/22

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.002+/-0.012 $\chi^2$/NDF:24.9/20

Left: 0.002+/-0.009 $\chi^2$/NDF: 54.4/43

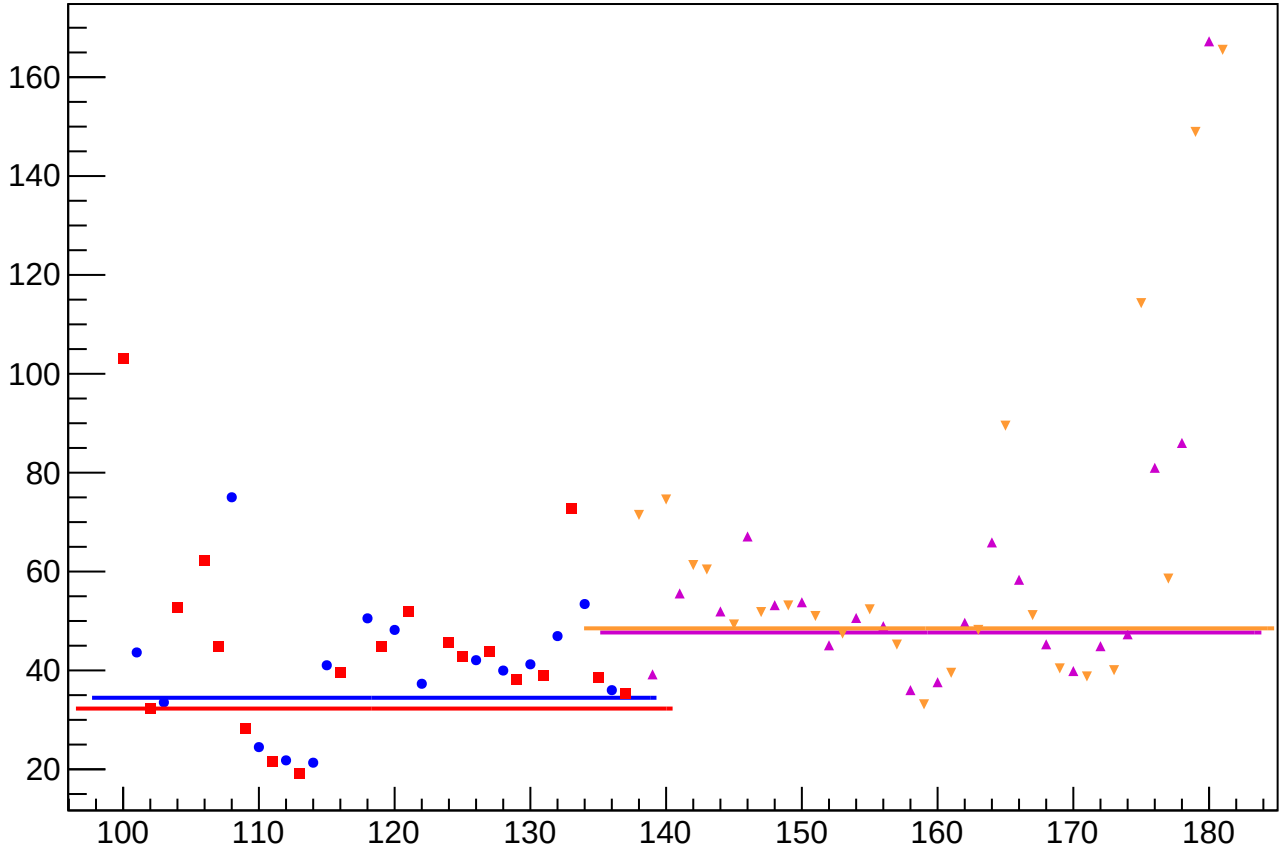
Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.017+/-0.009 $\chi^2$/NDF:45.1/36

Out: -0.008+/-0.009 $\chi^2$/NDF:44.3/41

All: 0.004+/-0.006 $\chi^2$/NDF: 93.1/78

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.468+/-0.010 $\chi^2$/NDF: 1171203.3/15

Left Out: 48.512+/-0.009 $\chi^2$/NDF:3270573.6/22

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672637.0/18

Left In: 47.673+/-0.009 $\chi^2$/NDF:2058661.3/20

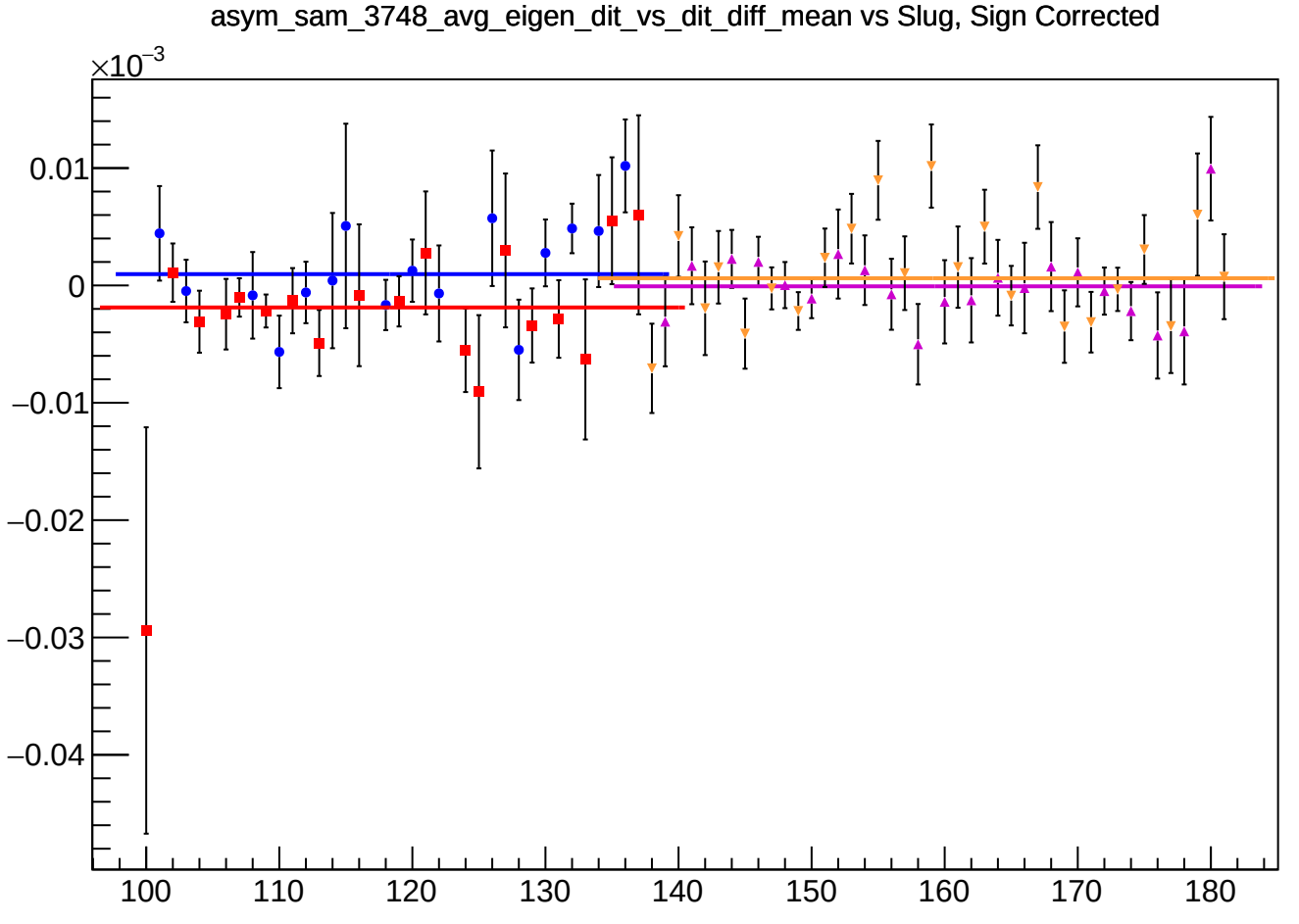
Left: 48.095+/-0.006 $\chi^2$/NDF: 5333824.9/43

Right: 33.314+/-0.007 $\chi^2$/NDF: 2869944.8/34

In: 41.809+/-0.007 $\chi^2$/NDF:4234584.9/36

Out: 40.895+/-0.006 $\chi^2$/NDF:6565861.0/41

All: 41.339+/-0.005 $\chi^2$/NDF: 10810471.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:41.5/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.6/20

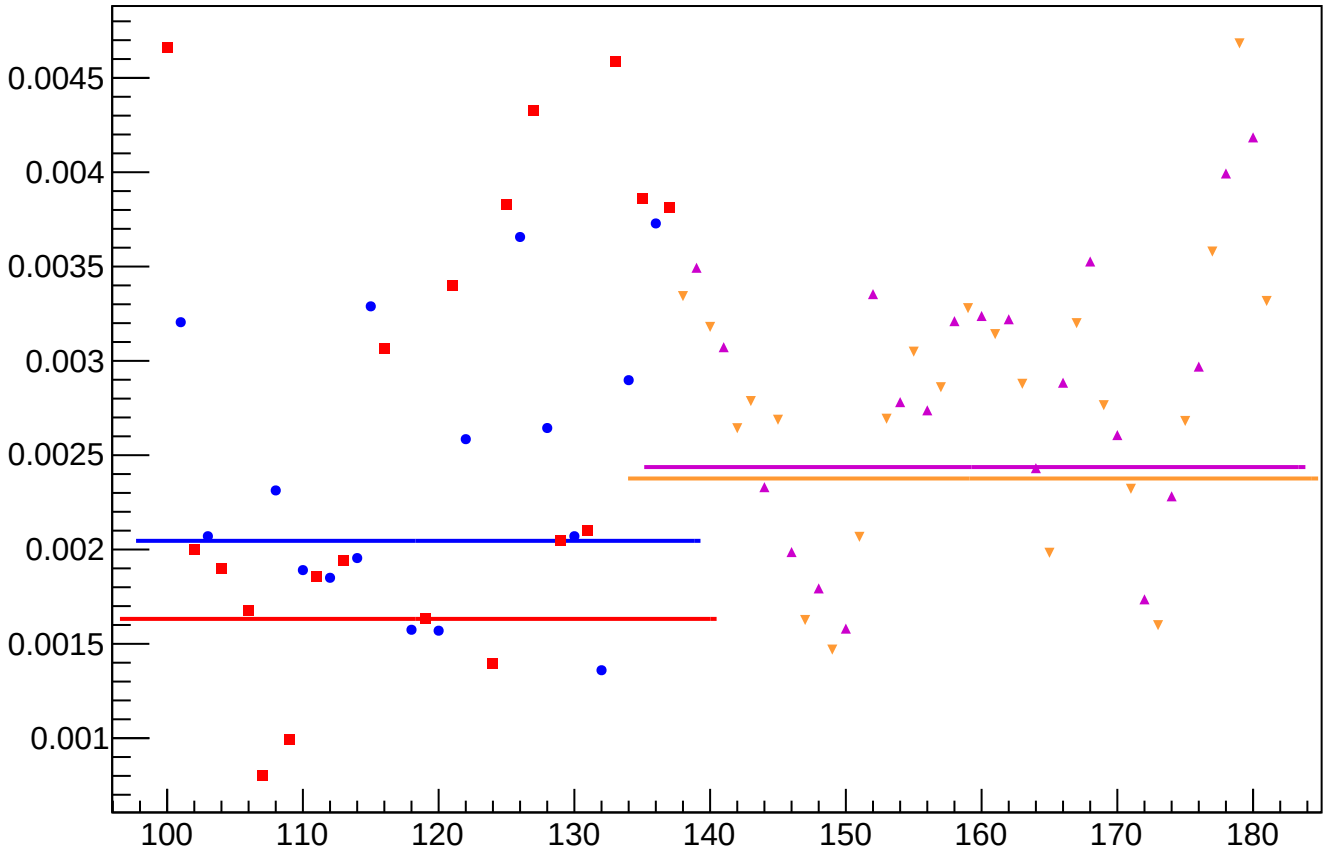
Left: 0.000+/-0.000 $\chi^2$/NDF: 56.8/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:36.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:62.2/41

All: -0.000+/-0.000 $\chi^2$/NDF: 100.2/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1260485.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3021124.1/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2928991.9/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:2565539.7/20

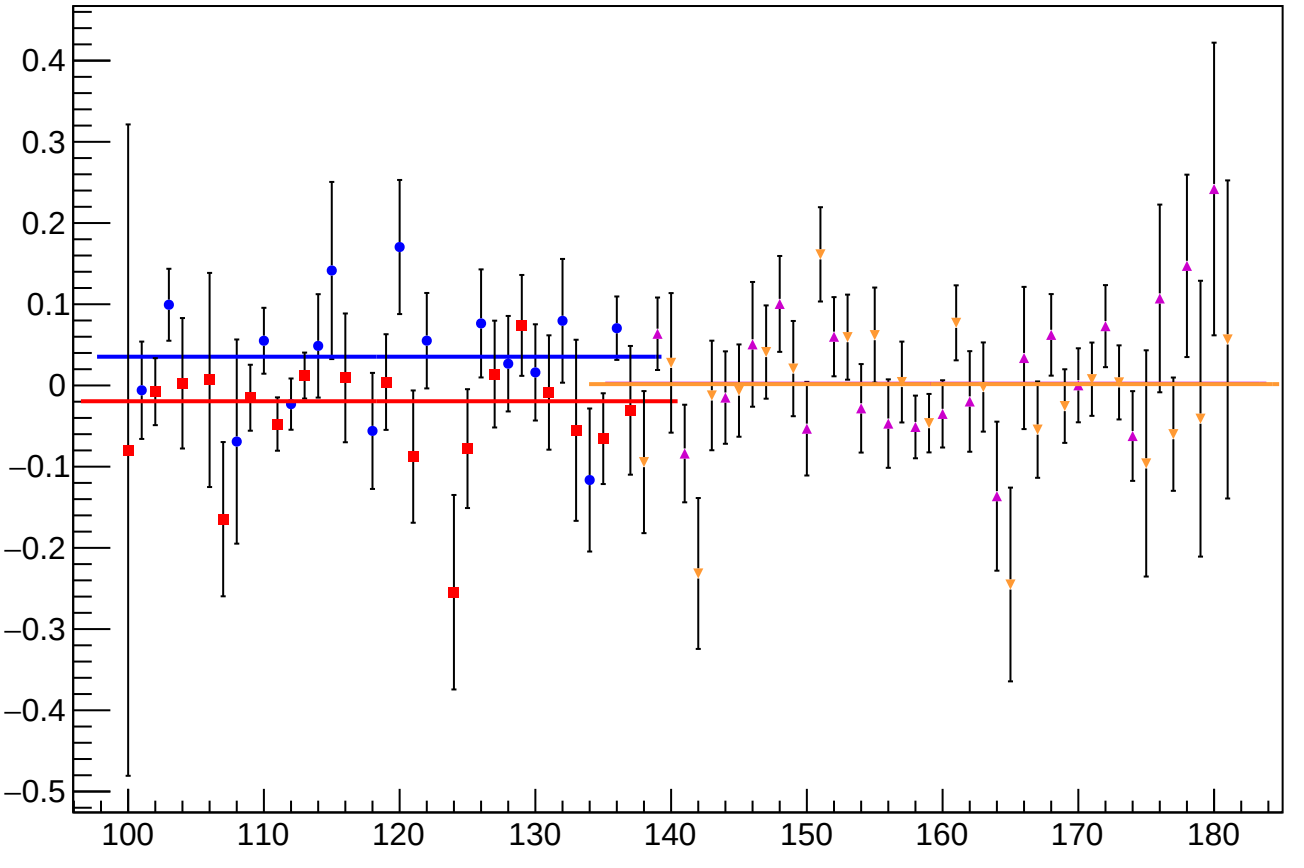
Left: 0.002+/-0.000 $\chi^2$/NDF: 5596846.2/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 4499888.8/34

In: 0.002+/-0.000 $\chi^2$/NDF:4121888.2/36

Out: 0.002+/-0.000 $\chi^2$/NDF:7352021.3/41

All: 0.002+/-0.000 $\chi^2$/NDF: 11734639.4/78




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: 0.002+/-0.012 $\chi^2$/NDF:29.5/22

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.002+/-0.012 $\chi^2$/NDF:24.9/20

Left: 0.002+/-0.009 $\chi^2$/NDF: 54.4/43

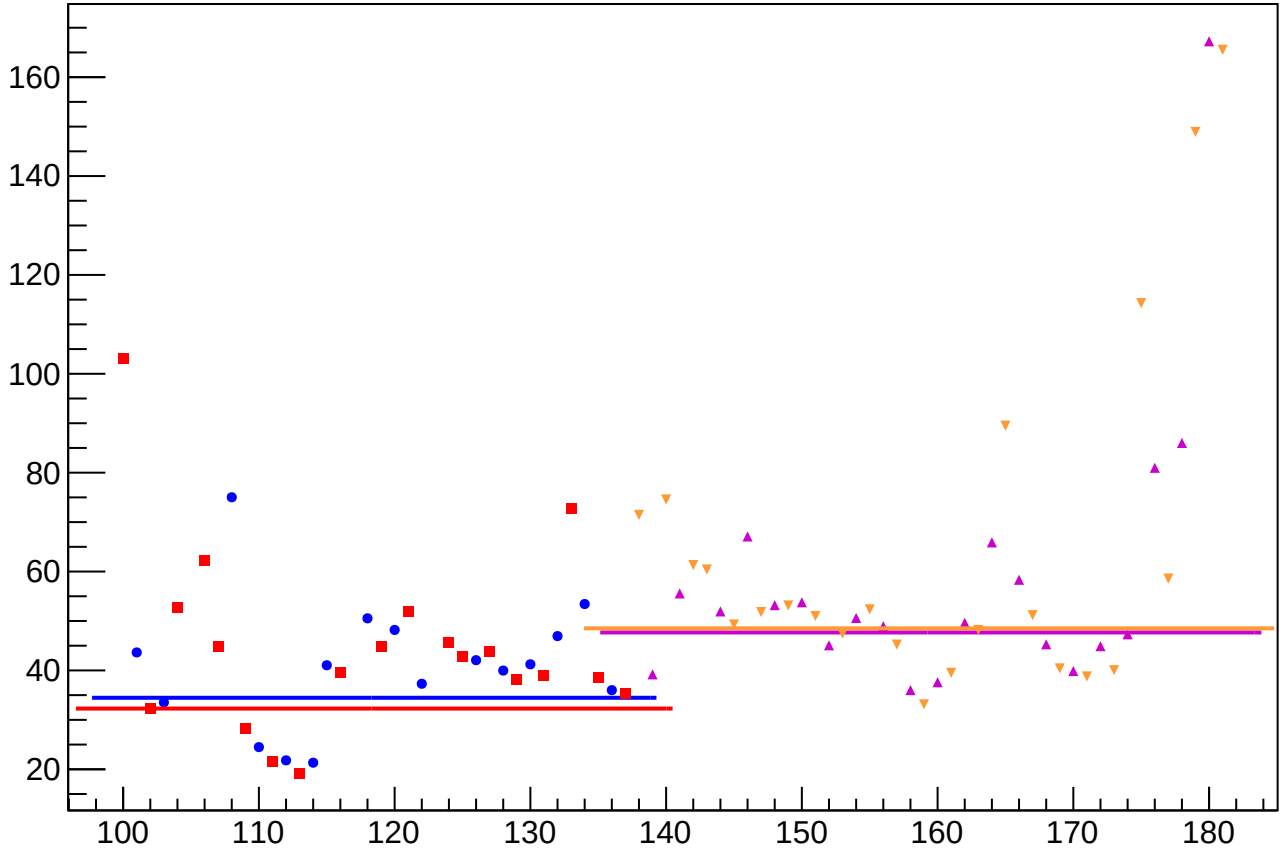
Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.017+/-0.009 $\chi^2$/NDF:45.1/36

Out: -0.008+/-0.009 $\chi^2$/NDF:44.3/41

All: 0.004+/-0.006 $\chi^2$/NDF: 93.1/78

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.469+/-0.010 $\chi^2$/NDF: 1171158.4/15

Left Out: 48.513+/-0.009 $\chi^2$/NDF:3270557.2/22

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672606.5/18

Left In: 47.674+/-0.009 $\chi^2$/NDF:2058637.7/20

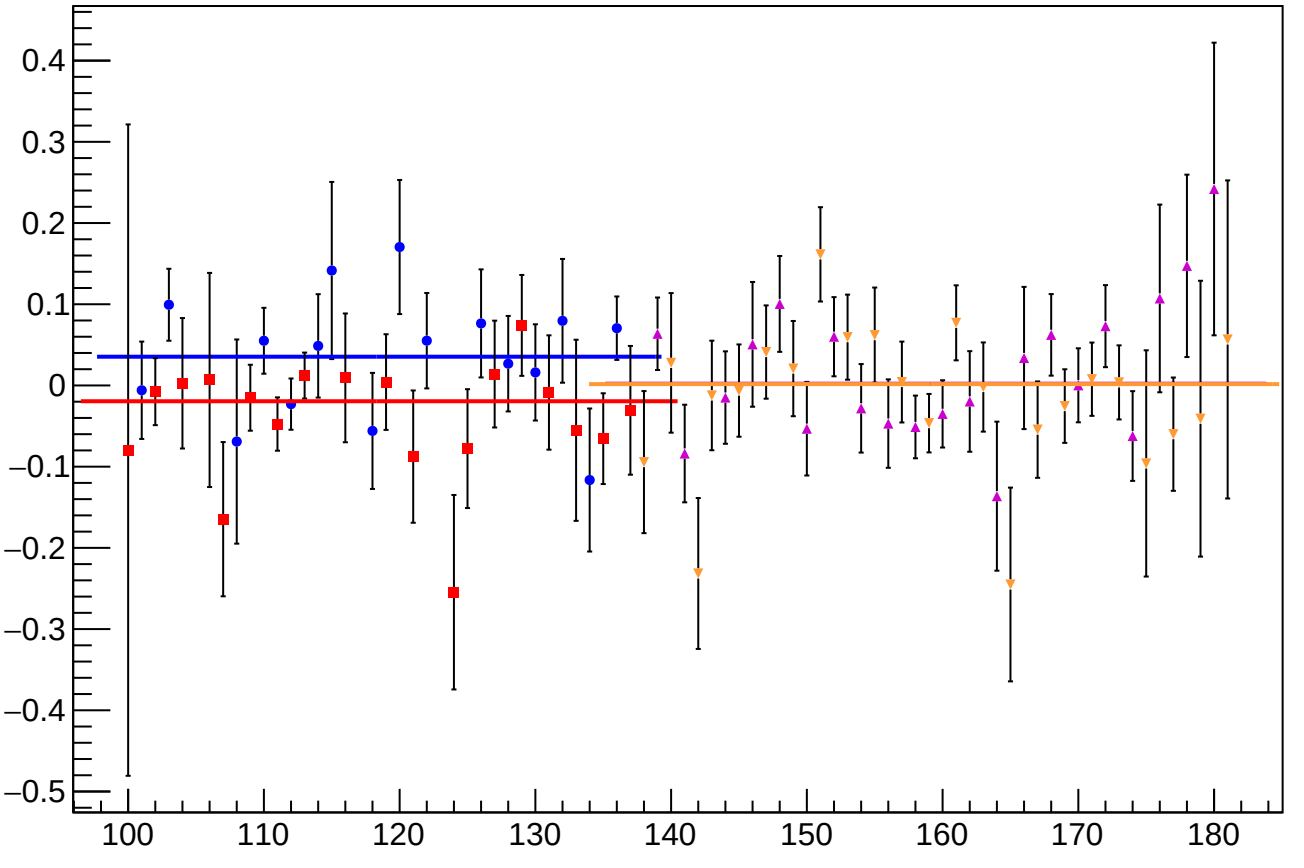
Left: 48.096+/-0.006 $\chi^2$/NDF: 5333785.0/43

Right: 33.315+/-0.007 $\chi^2$/NDF: 2869868.2/34

In: 41.809+/-0.007 $\chi^2$/NDF:4234527.8/36

Out: 40.896+/-0.006 $\chi^2$/NDF:6565820.3/41

All: 41.339+/-0.005 $\chi^2$/NDF: 10810373.0/78




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: 0.002+/-0.012 $\chi^2$/NDF:29.5/22

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.002+/-0.012 $\chi^2$/NDF:24.9/20

Left: 0.002+/-0.009 $\chi^2$/NDF: 54.4/43

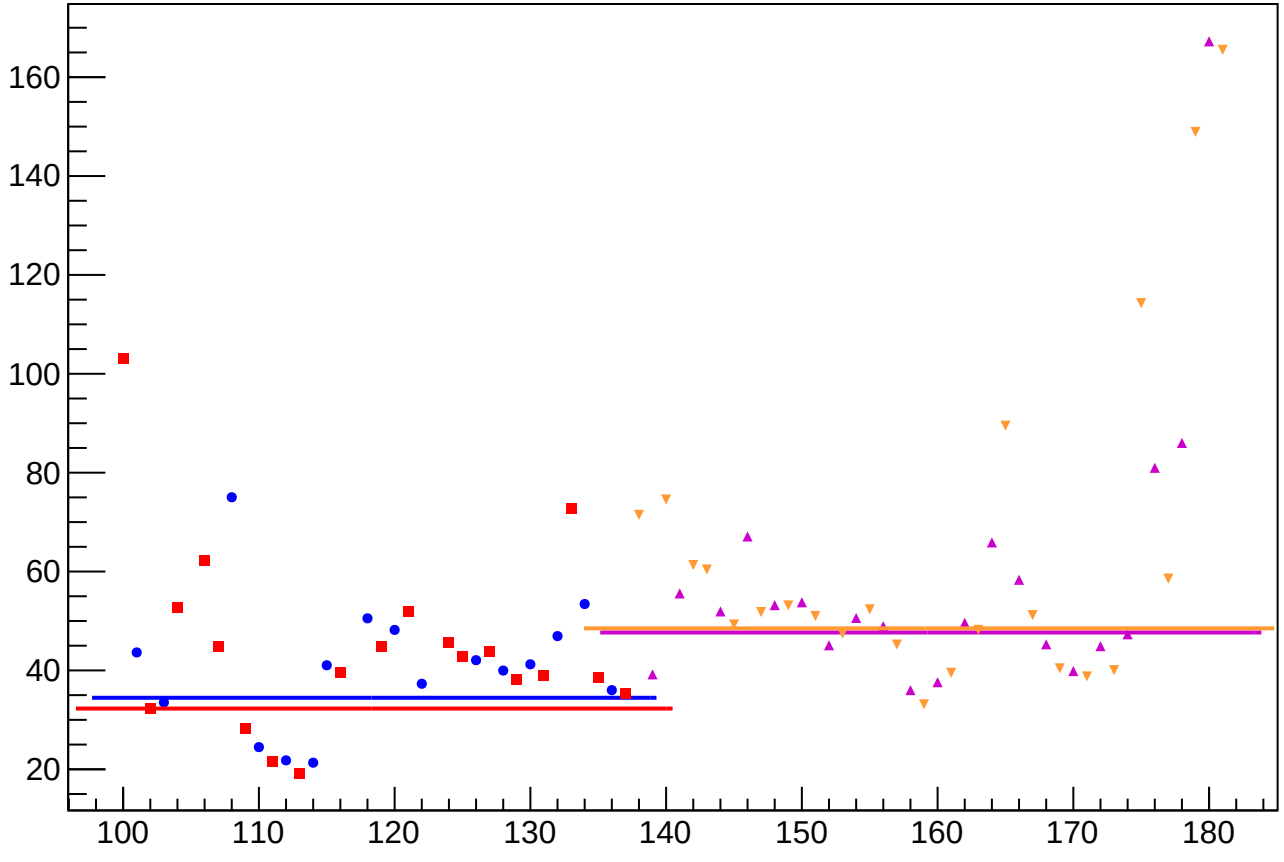
Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.017+/-0.009 $\chi^2$/NDF:45.1/36

Out: -0.008+/-0.009 $\chi^2$/NDF:44.3/41

All: 0.004+/-0.006 $\chi^2$/NDF: 93.1/78

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.469+/-0.010 $\chi^2$/NDF: 1171158.4/15

Left Out: 48.513+/-0.009 $\chi^2$/NDF:3270557.2/22

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672606.5/18

Left In: 47.674+/-0.009 $\chi^2$/NDF:2058637.7/20

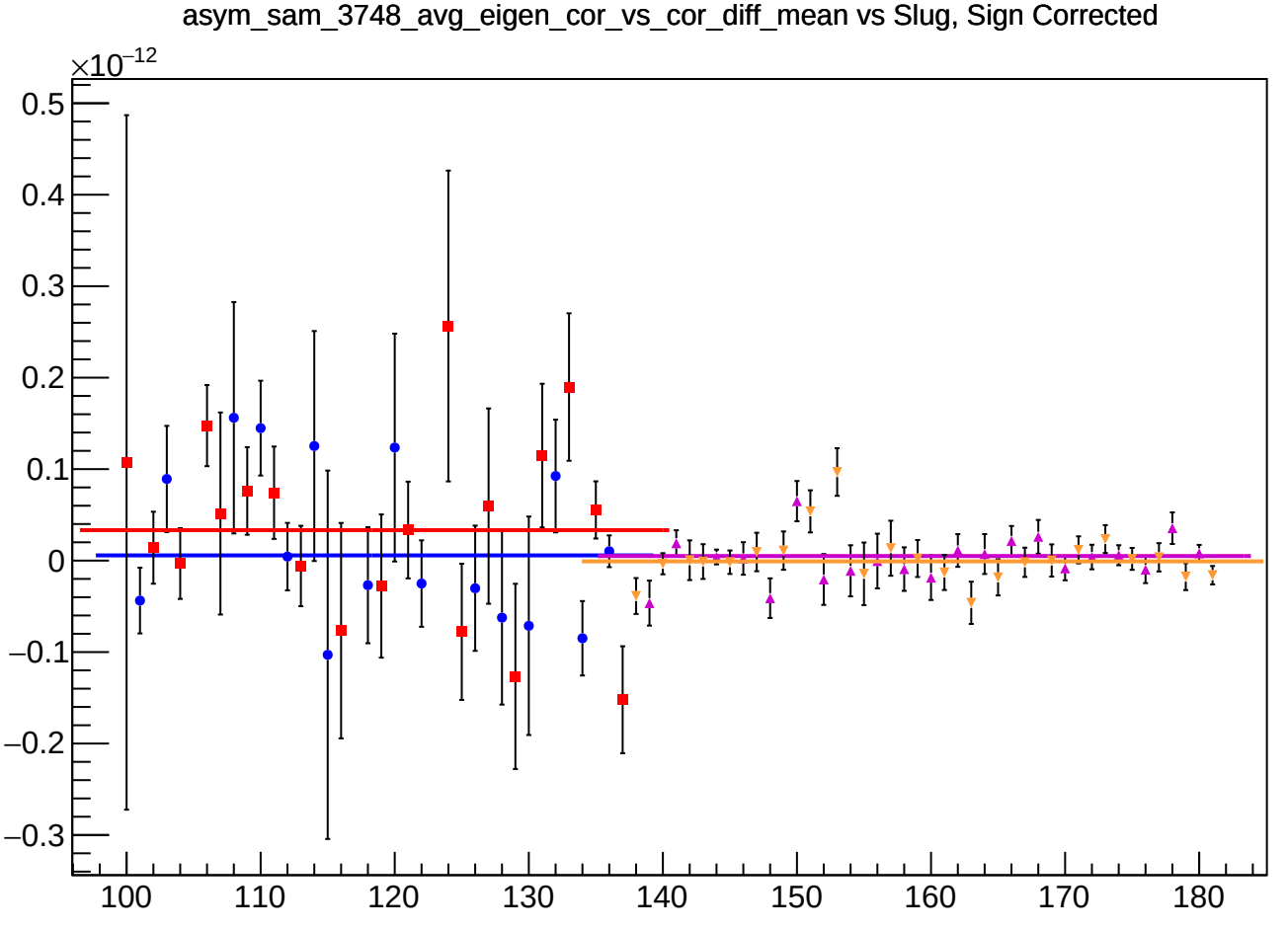
Left: 48.096+/-0.006 $\chi^2$/NDF: 5333785.0/43

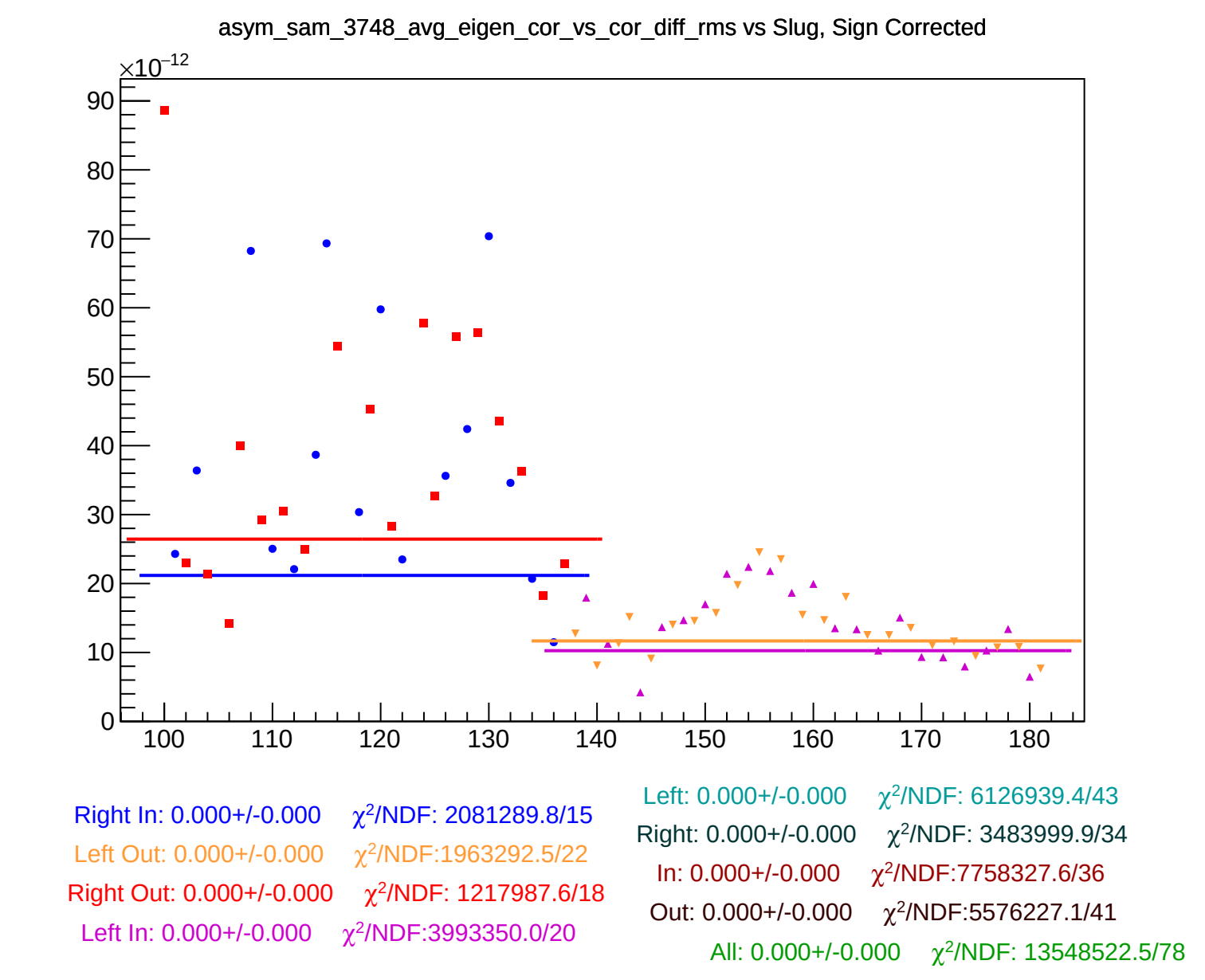
Right: 33.315+/-0.007 $\chi^2$/NDF: 2869868.2/34

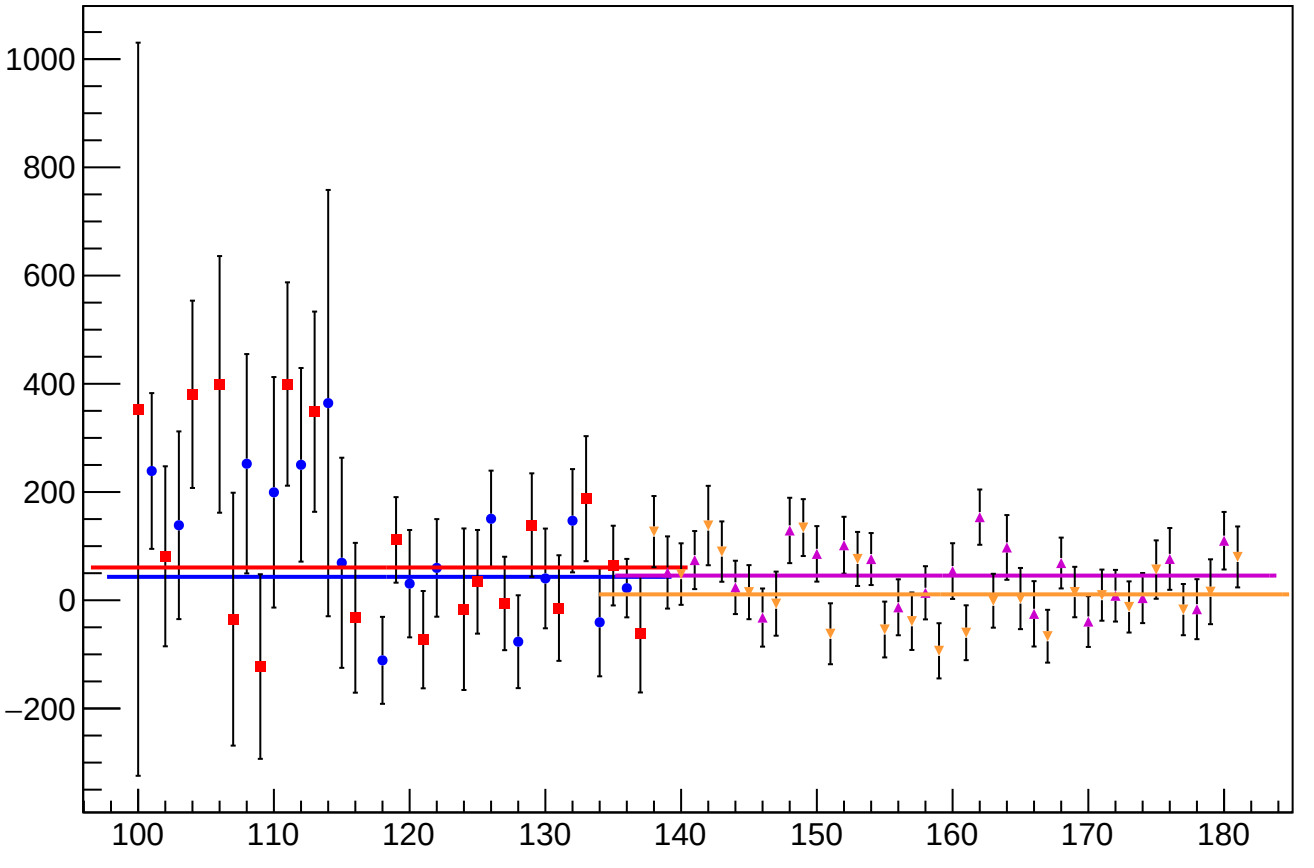
In: 41.809+/-0.007 $\chi^2$/NDF:4234527.8/36

Out: 40.896+/-0.006 $\chi^2$/NDF:6565820.3/41

All: 41.339+/-0.005 $\chi^2$/NDF: 10810373.0/78


asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10⁻¹²
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 23.6/15
Left Out: -0.000+/-0.000 χ²/NDF:36.5/22
Right Out: 0.000+/-0.000 χ²/NDF: 33.5/18
Left In: 0.000+/-0.000 χ²/NDF:27.6/20
Left: 0.000+/-0.000 χ²/NDF: 65.6/43
Right: 0.000+/-0.000 χ²/NDF: 59.6/34
In: 0.000+/-0.000 χ²/NDF:51.2/36
Out: 0.000+/-0.000 χ²/NDF:76.4/41
All: 0.000+/-0.000 χ²/NDF: 128.2/78


asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2081289.8/15
Left Out: 0.000+/-0.000 χ²/NDF:1963292.5/22
Right Out: 0.000+/-0.000 χ²/NDF: 1217987.6/18
Left In: 0.000+/-0.000 χ²/NDF:3993350.0/20
Left: 0.000+/-0.000 χ²/NDF: 6126939.4/43
Right: 0.000+/-0.000 χ²/NDF: 3483999.9/34
In: 0.000+/-0.000 χ²/NDF:7758327.6/36
Out: 0.000+/-0.000 χ²/NDF:5576227.1/41
All: 0.000+/-0.000 χ²/NDF: 13548522.5/78




Right In: 43.247+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 10.885+/-11.048 $\chi^2$/NDF:31.6/22

Right Out: 60.582+/-26.894 $\chi^2$/NDF: 20.4/18

Left In: 45.577+/-11.409 $\chi^2$/NDF:22.9/20

Left: 27.674+/-7.937 $\chi^2$/NDF: 59.3/43

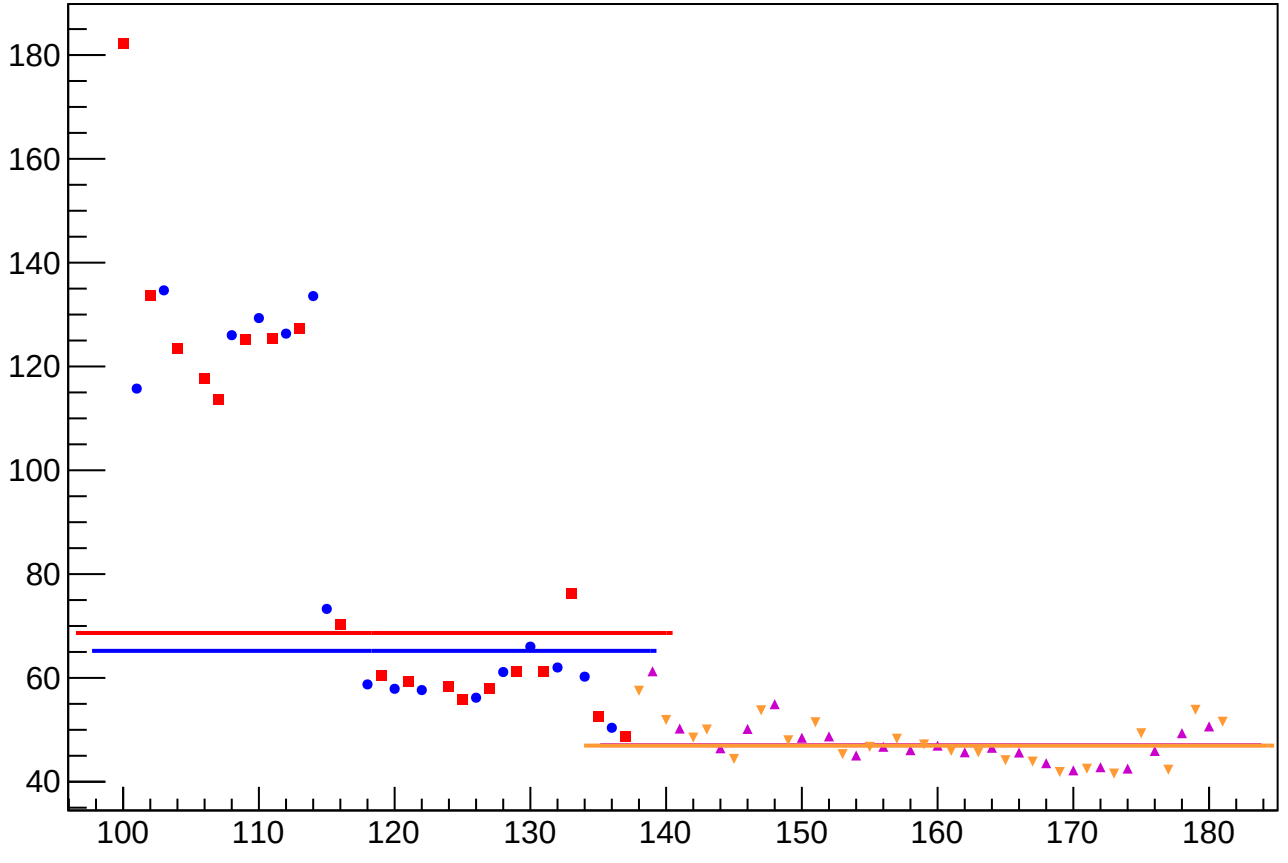
Right: 51.548+/-18.611 $\chi^2$/NDF: 35.6/34

In: 45.196+/-10.433 $\chi^2$/NDF:37.9/36

Out: 18.060+/-10.220 $\chi^2$/NDF:54.9/41

All: 31.347+/-7.301 $\chi^2$/NDF: 96.2/78

# reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446504.6/15

Left Out: 46.958+/-0.008 $\chi^2$/NDF:268228.4/22

Right Out: 68.656+/-0.019 $\chi^2$/NDF: 1640900.1/18

Left In: 47.039+/-0.008 $\chi^2$/NDF:230544.8/20

Left: 46.997+/-0.006 $\chi^2$/NDF: 498825.7/43

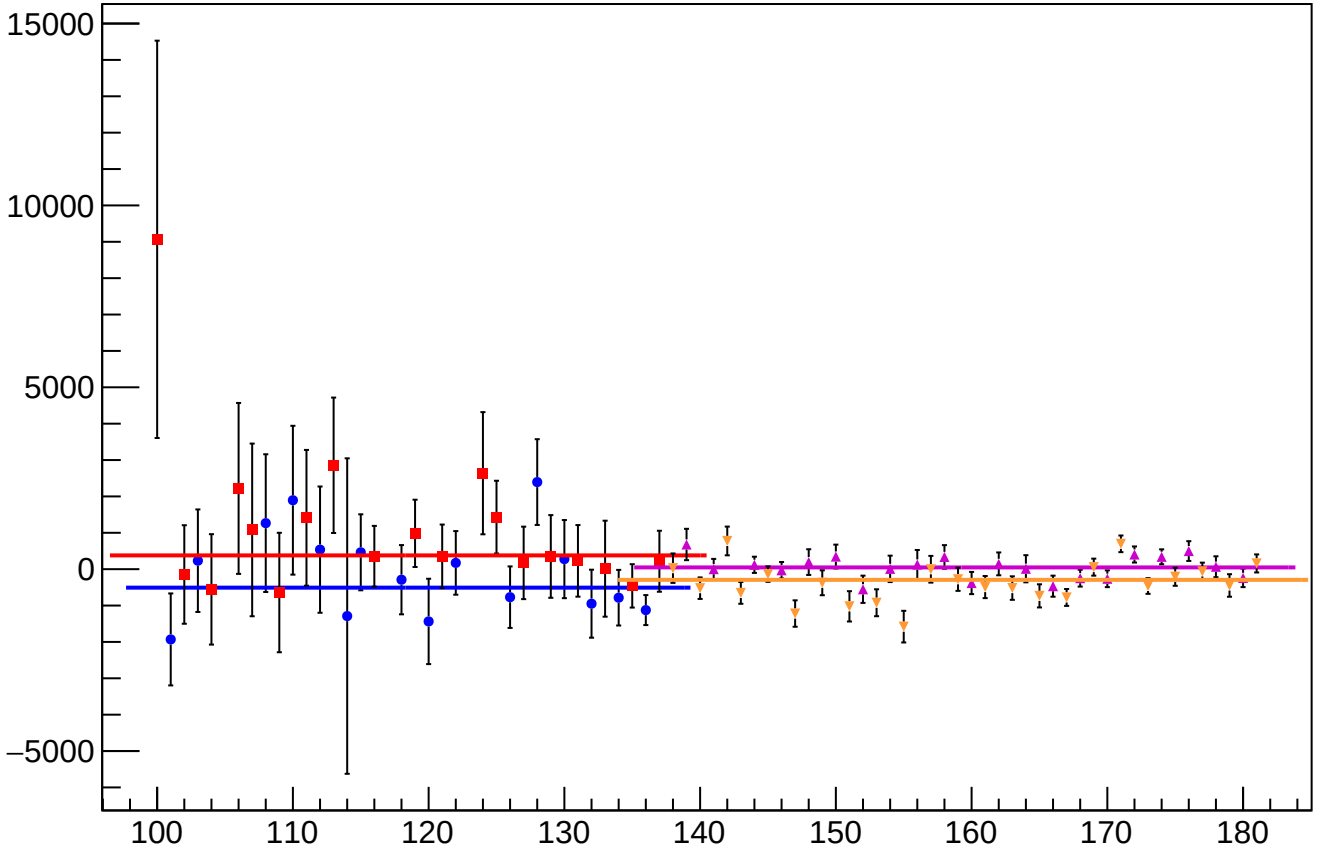
Right: 66.862+/-0.013 $\chi^2$/NDF: 3104495.7/34

In: 50.016+/-0.007 $\chi^2$/NDF:2508101.8/36

Out: 50.091+/-0.007 $\chi^2$/NDF:3023010.4/41

All: 50.054+/-0.005 $\chi^2$/NDF: 5531165.6/78

asym_sam_1526_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -507.928+/-236.945 $\chi^2$/NDF: 15.6/15

Left Out: -293.659+/-60.113 $\chi^2$/NDF:65.8/22

Right Out: 378.892+/-256.407 $\chi^2$/NDF: 11.7/18

Left In: 48.144+/-61.056 $\chi^2$/NDF:24.1/20

Left: -125.418+/-42.836 $\chi^2$/NDF: 105.9/43

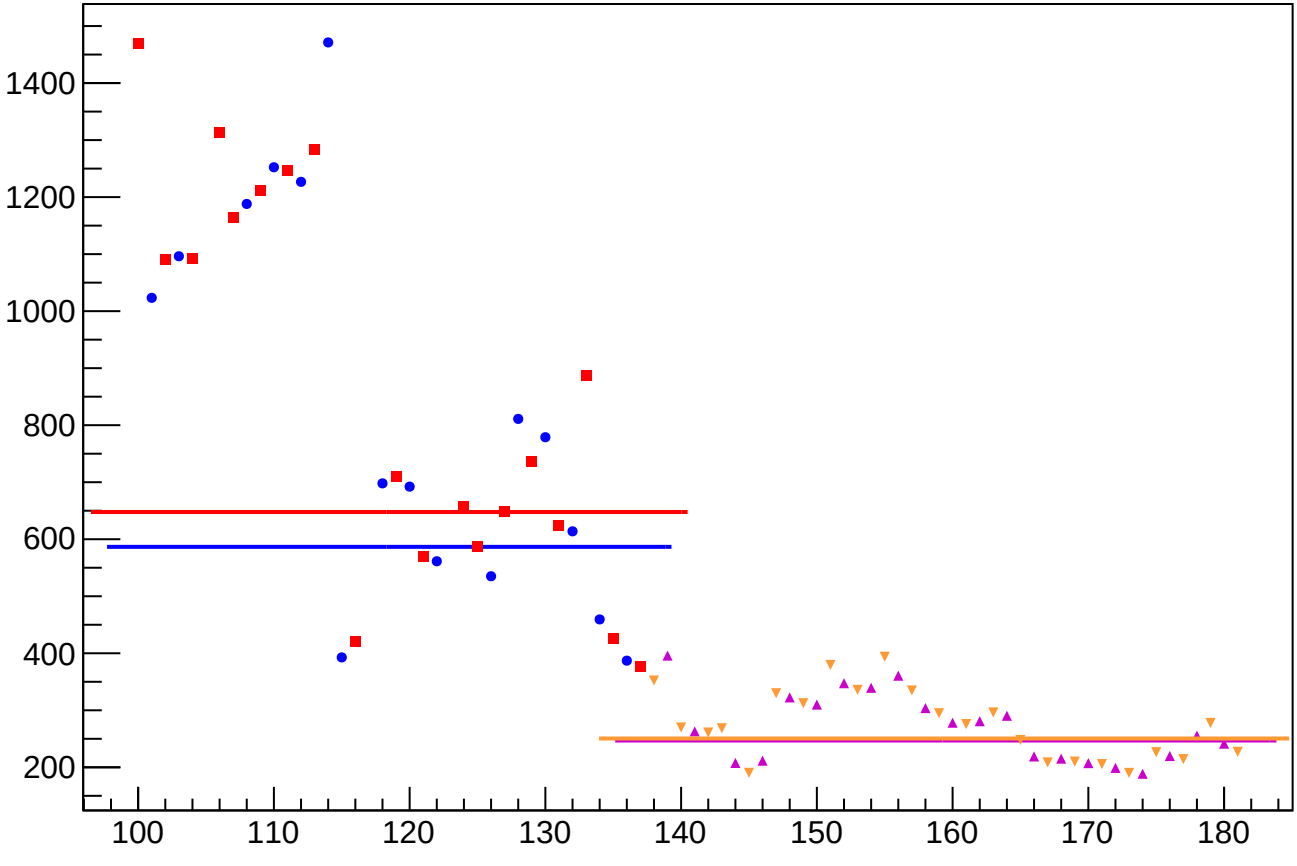
Right: -99.449+/-174.019 $\chi^2$/NDF: 33.8/34

In: 13.520+/-59.125 $\chi^2$/NDF:44.9/36

Out: -258.619+/-58.526 $\chi^2$/NDF:84.1/41

All: -123.935+/-41.594 $\chi^2$/NDF: 139.7/78

asym_sam_1526_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053133.2/15

Left Out: 250.523+/-0.043 $\chi^2$/NDF:1632320.1/22

Right Out: 647.736+/-0.181 $\chi^2$/NDF: 2105638.0/18

Left In: 246.986+/-0.043 $\chi^2$/NDF:1483593.3/20

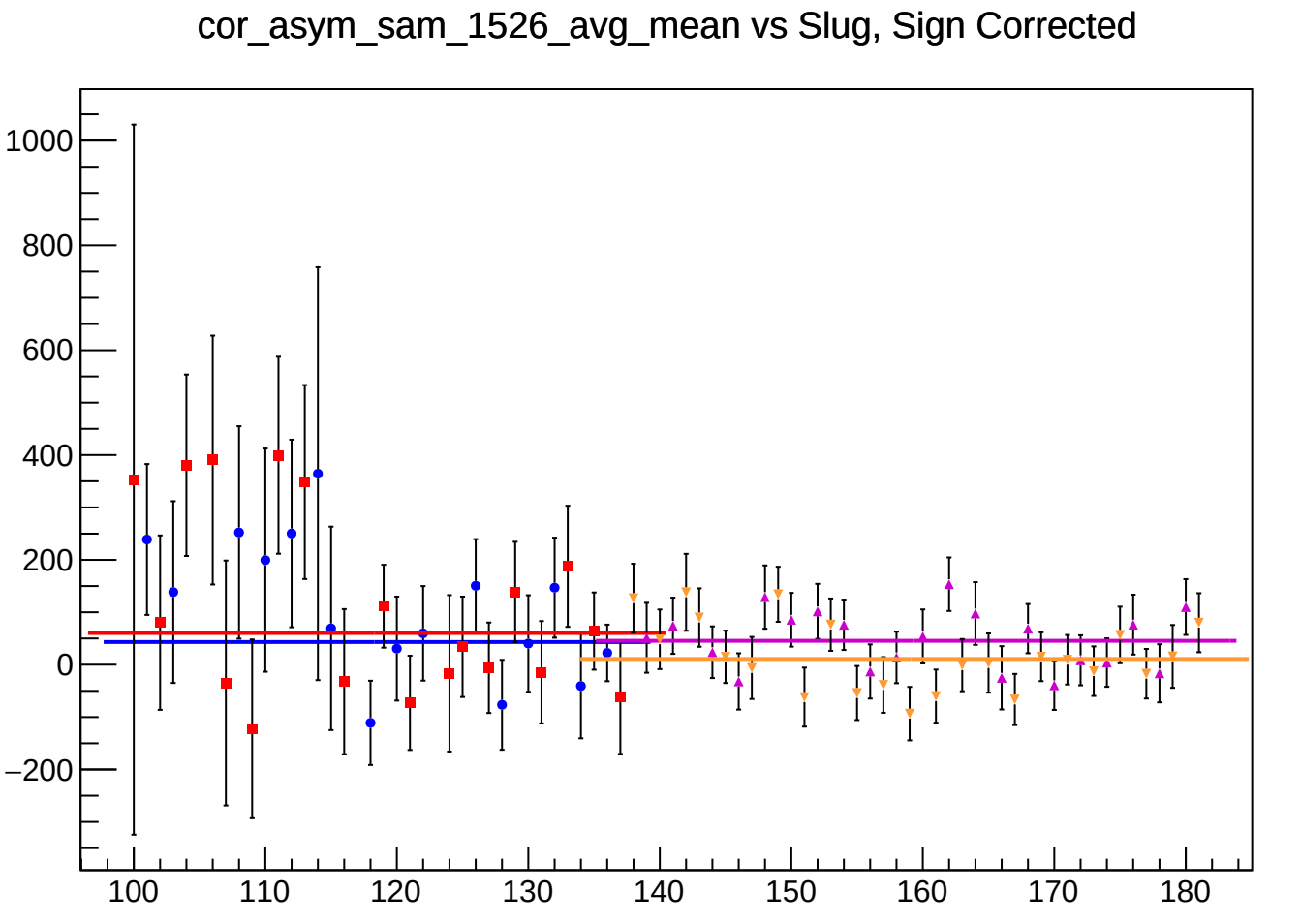
Left: 248.782+/-0.030 $\chi^2$/NDF: 3119320.4/43

Right: 614.784+/-0.123 $\chi^2$/NDF: 4220010.2/34

In: 268.136+/-0.042 $\chi^2$/NDF:7390635.4/36

Out: 271.218+/-0.041 $\chi^2$/NDF:8287624.2/41

All: 269.692+/-0.029 $\chi^2$/NDF: 15681005.0/78




Right In: 43.239+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 10.886+/-11.048 $\chi^2$/NDF:31.6/22

Right Out: 60.432+/-26.895 $\chi^2$/NDF: 20.3/18

Left In: 45.576+/-11.409 $\chi^2$/NDF:22.9/20

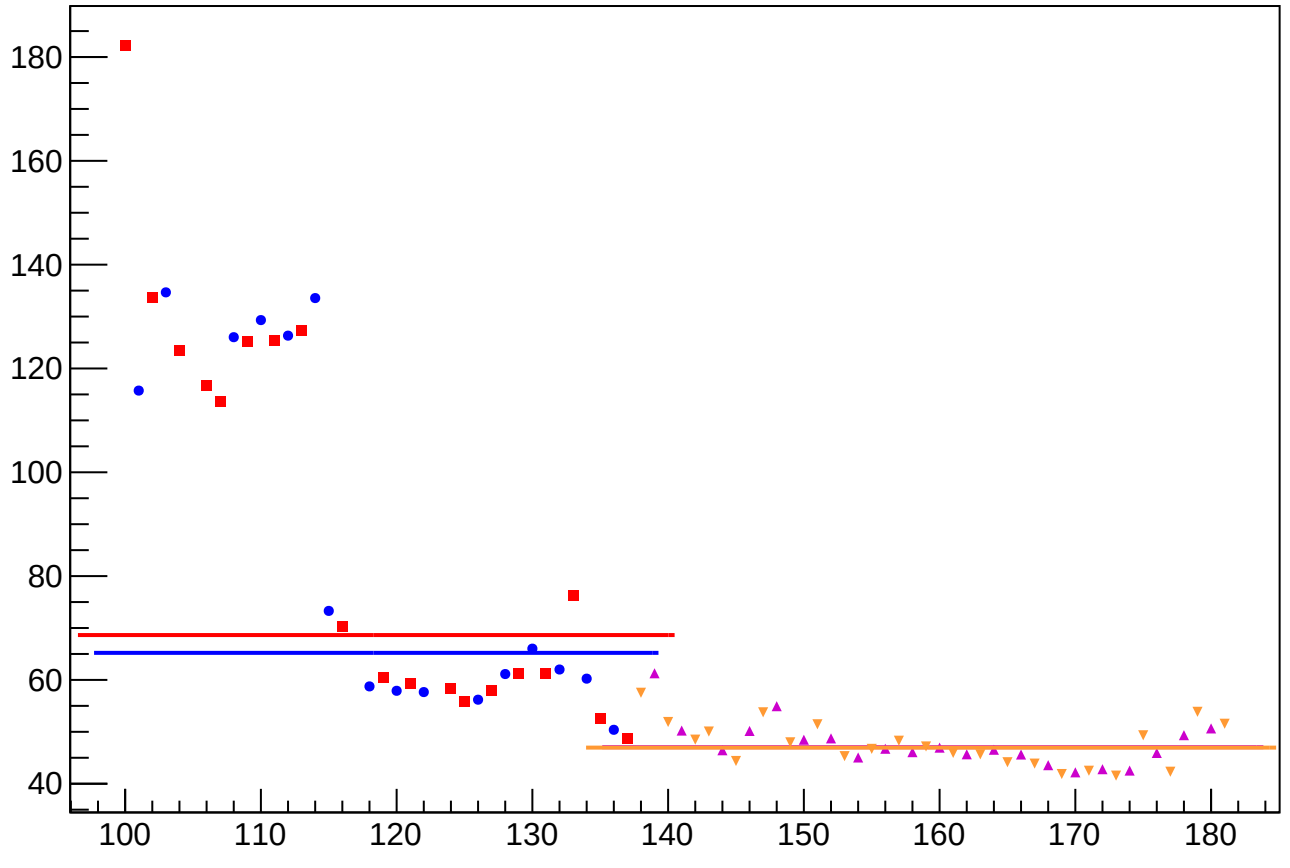
Left: 27.673+/-7.937 $\chi^2$/NDF: 59.3/43

Right: 51.472+/-18.611 $\chi^2$/NDF: 35.5/34

In: 45.193+/-10.433 $\chi^2$/NDF:37.9/36

Out: 18.039+/-10.220 $\chi^2$/NDF:54.8/41

All: 31.336+/-7.301 $\chi^2$/NDF: 96.1/78




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446506.9/15

Left Out: 46.958+/-0.008 $\chi^2$/NDF:268228.4/22

Right Out: 68.642+/-0.019 $\chi^2$/NDF: 1637558.1/18

Left In: 47.039+/-0.008 $\chi^2$/NDF:230544.8/20

Left: 46.997+/-0.006 $\chi^2$/NDF: 498825.7/43

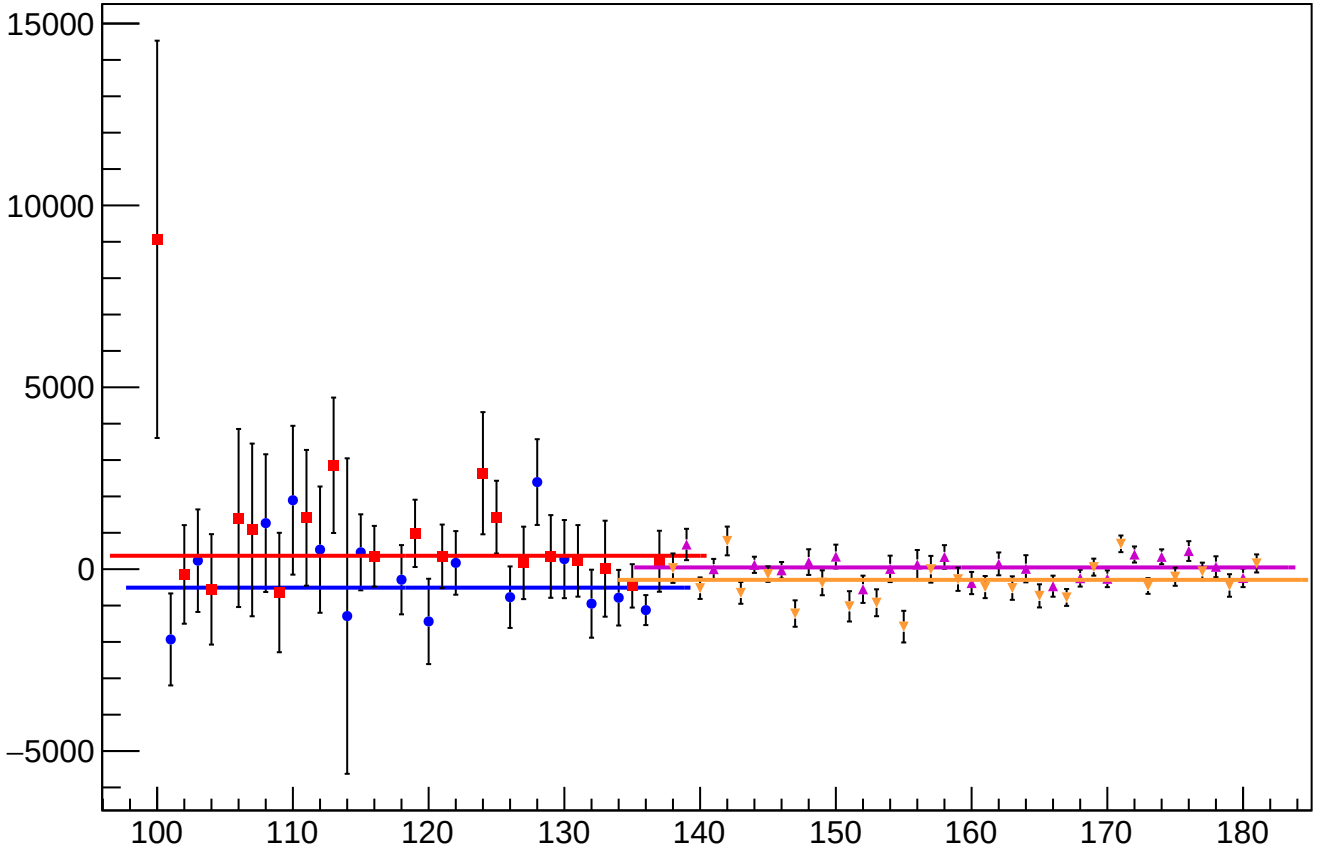
Right: 66.855+/-0.013 $\chi^2$/NDF: 3101012.7/34

In: 50.016+/-0.007 $\chi^2$/NDF:2508103.8/36

Out: 50.089+/-0.007 $\chi^2$/NDF:3018133.2/41

All: 50.053+/-0.005 $\chi^2$/NDF: 5526287.3/78

asym_sam_1526_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -507.911+/-236.945 $\chi^2$/NDF: 15.6/15

Left Out: -293.657+/-60.113 $\chi^2$/NDF:65.8/22

Right Out: 368.334+/-256.534 $\chi^2$/NDF: 11.3/18

Left In: 48.141+/-61.056 $\chi^2$/NDF:24.1/20

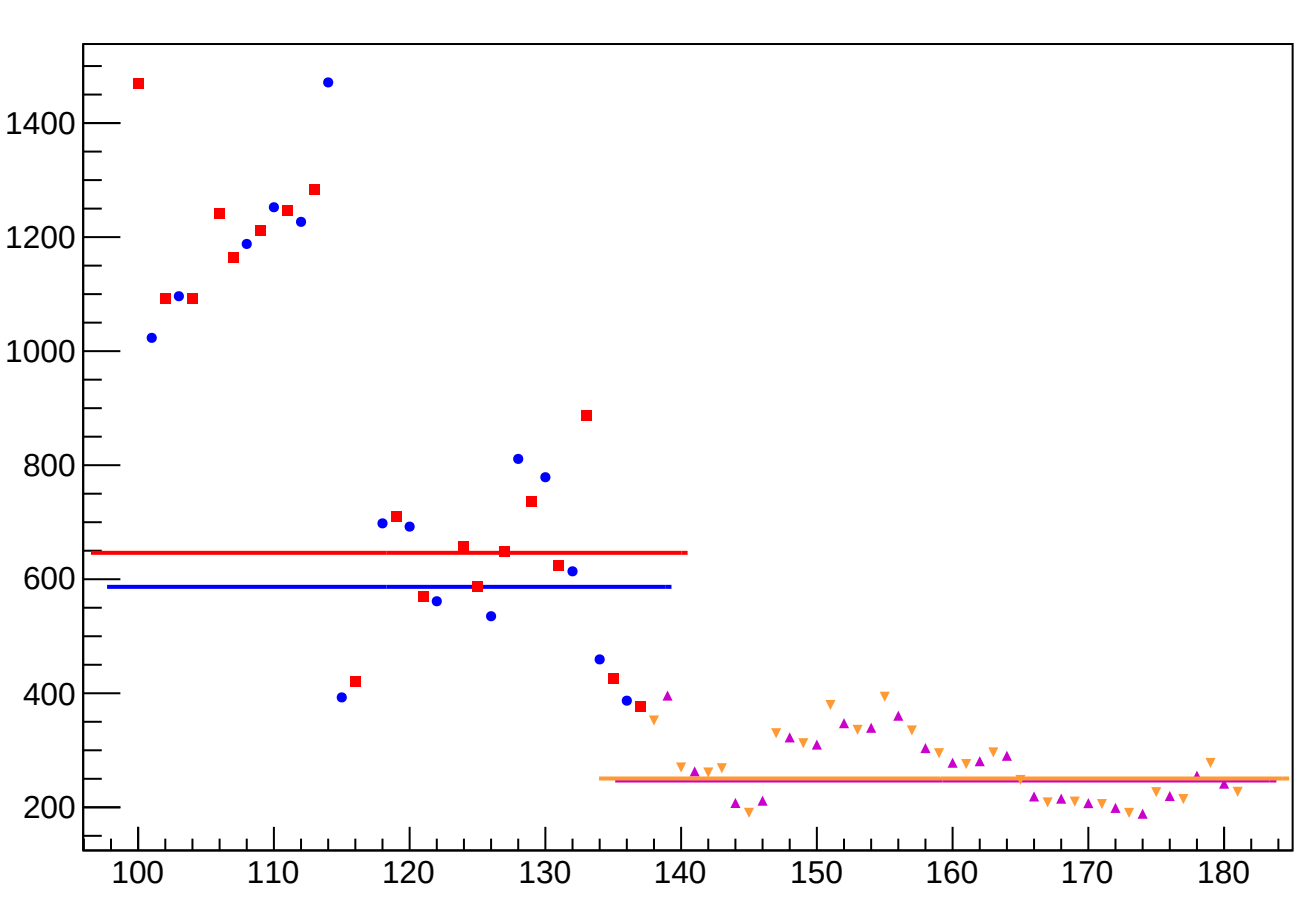
Left: -125.419+/-42.836 $\chi^2$/NDF: 105.9/43

Right: -104.517+/-174.059 $\chi^2$/NDF: 33.2/34

In: 13.518+/-59.125 $\chi^2$/NDF:44.9/36

Out: -259.199+/-58.528 $\chi^2$/NDF:83.4/41

All: -124.225+/-41.595 $\chi^2$/NDF: 139.1/78




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053169.7/15

Left Out: 250.523+/-0.043 $\chi^2$/NDF:1632330.3/22

Right Out: 646.328+/-0.181 $\chi^2$/NDF: 2063185.3/18

Left In: 246.987+/-0.043 $\chi^2$/NDF:1483588.0/20

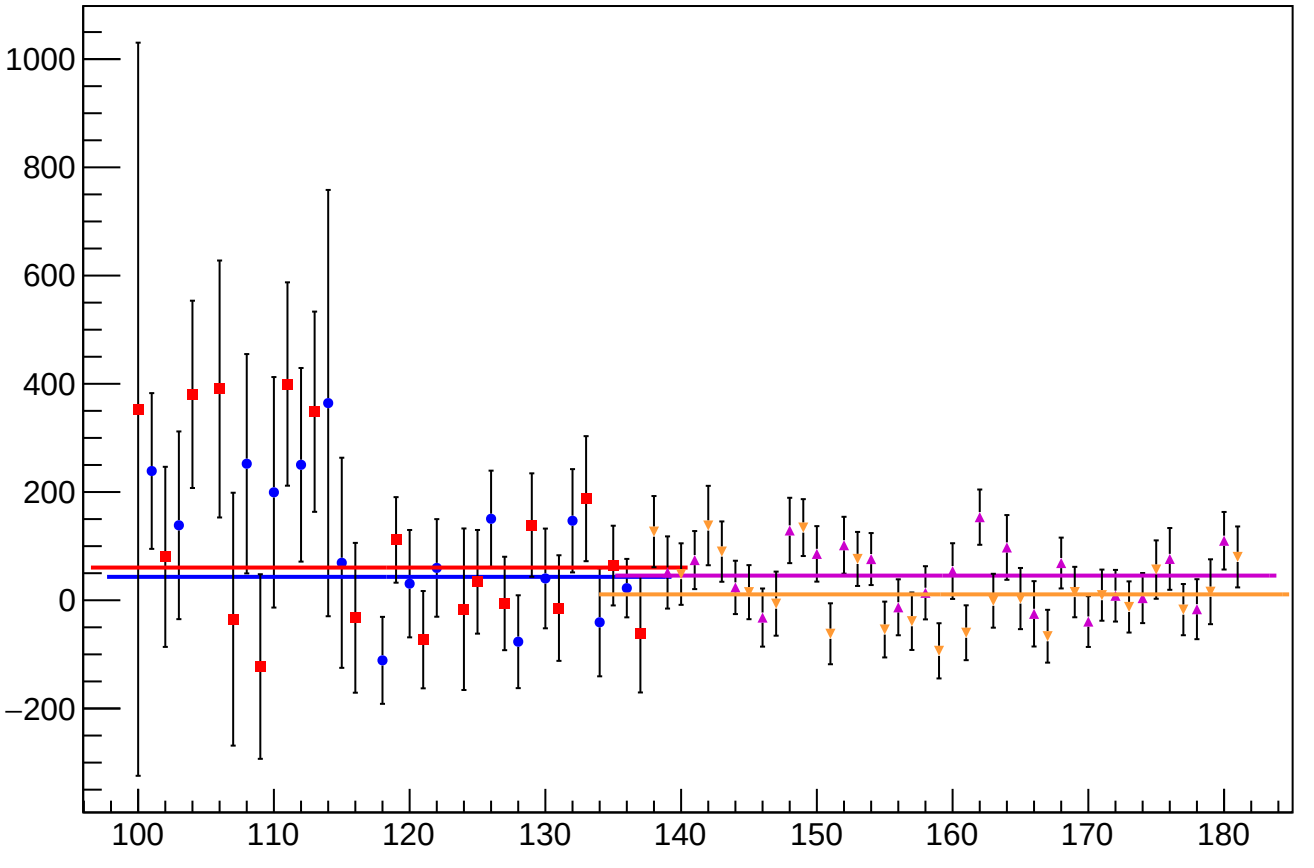
Left: 248.782+/-0.030 $\chi^2$/NDF: 3119324.5/43

Right: 614.121+/-0.123 $\chi^2$/NDF: 4174772.7/34

In: 268.136+/-0.042 $\chi^2$/NDF:7390646.6/36

Out: 271.125+/-0.041 $\chi^2$/NDF:8208751.8/41

All: 269.645+/-0.029 $\chi^2$/NDF: 15601980.5/78




Right In: 43.239+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 10.886+/-11.048 $\chi^2$/NDF:31.6/22

Right Out: 60.432+/-26.895 $\chi^2$/NDF: 20.3/18

Left In: 45.576+/-11.409 $\chi^2$/NDF:22.9/20

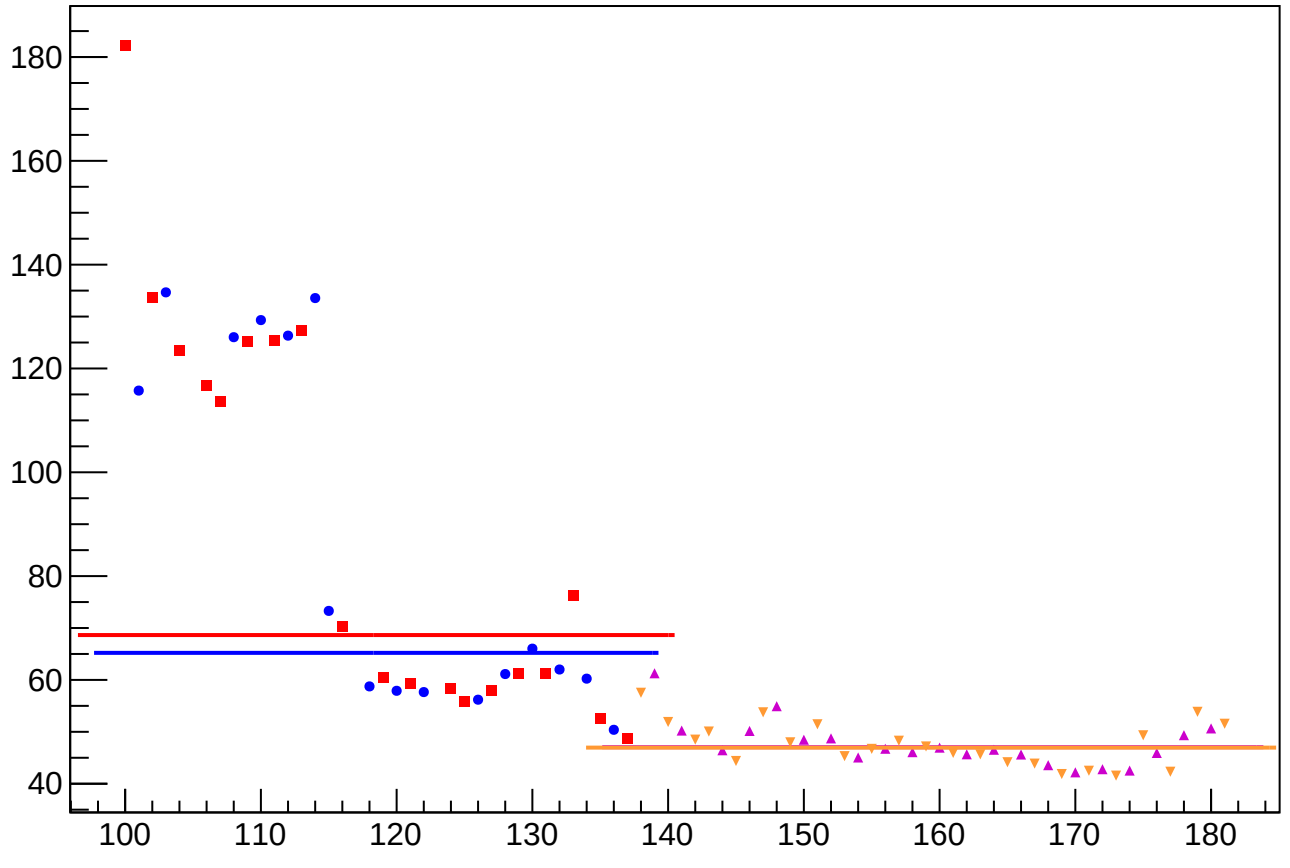
Left: 27.673+/-7.937 $\chi^2$/NDF: 59.3/43

Right: 51.472+/-18.611 $\chi^2$/NDF: 35.5/34

In: 45.193+/-10.433 $\chi^2$/NDF:37.9/36

Out: 18.039+/-10.220 $\chi^2$/NDF:54.8/41

All: 31.336+/-7.301 $\chi^2$/NDF: 96.1/78




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446506.9/15

Left Out: 46.958+/-0.008 $\chi^2$/NDF:268228.4/22

Right Out: 68.642+/-0.019 $\chi^2$/NDF: 1637558.1/18

Left In: 47.039+/-0.008 $\chi^2$/NDF:230544.8/20

Left: 46.997+/-0.006 $\chi^2$/NDF: 498825.7/43

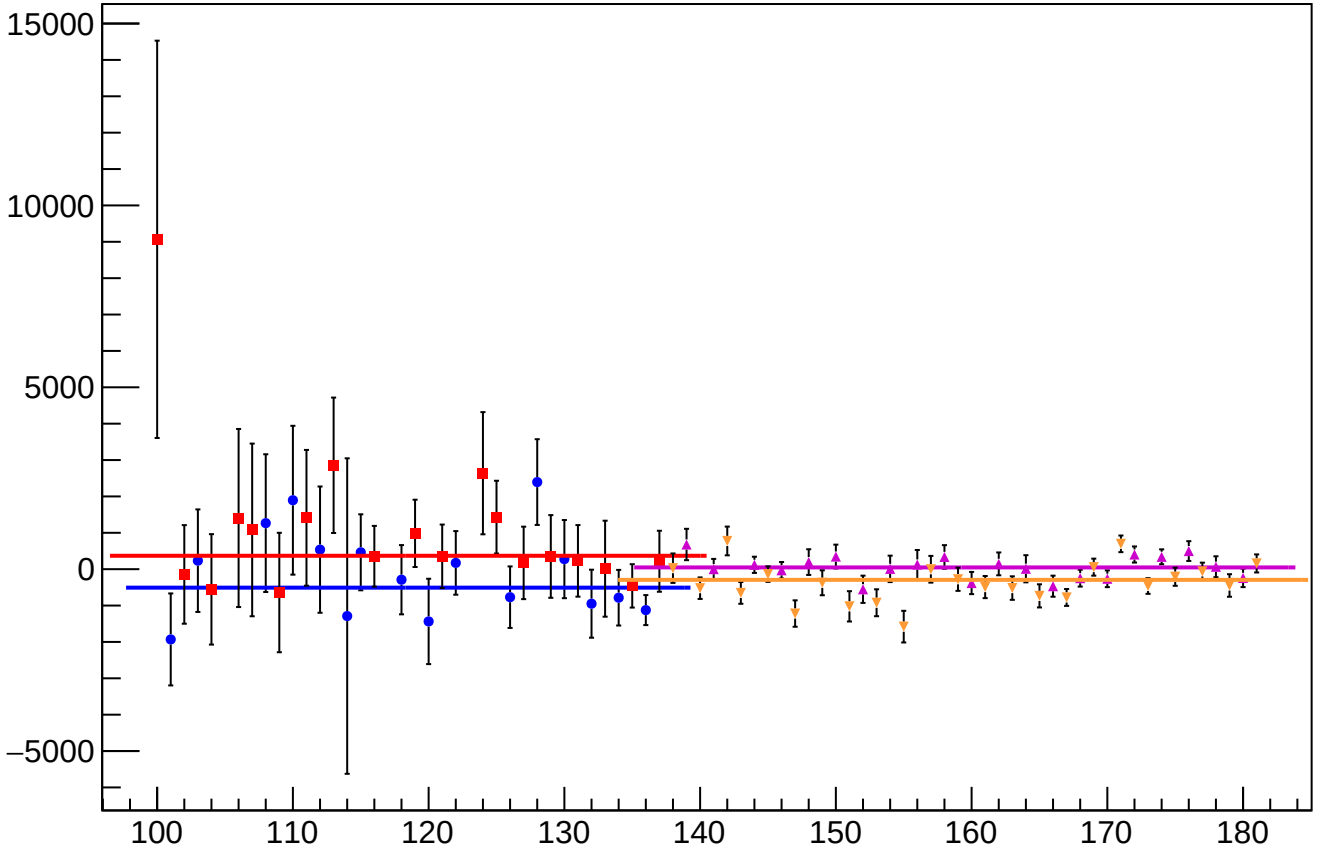
Right: 66.855+/-0.013 $\chi^2$/NDF: 3101012.7/34

In: 50.016+/-0.007 $\chi^2$/NDF:2508103.8/36

Out: 50.089+/-0.007 $\chi^2$/NDF:3018133.2/41

All: 50.053+/-0.005 $\chi^2$/NDF: 5526287.3/78

asym_sam_1526_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -507.911+/-236.945 $\chi^2$/NDF: 15.6/15

Left Out: -293.657+/-60.113 $\chi^2$/NDF:65.8/22

Right Out: 368.334+/-256.534 $\chi^2$/NDF: 11.3/18

Left In: 48.141+/-61.056 $\chi^2$/NDF:24.1/20

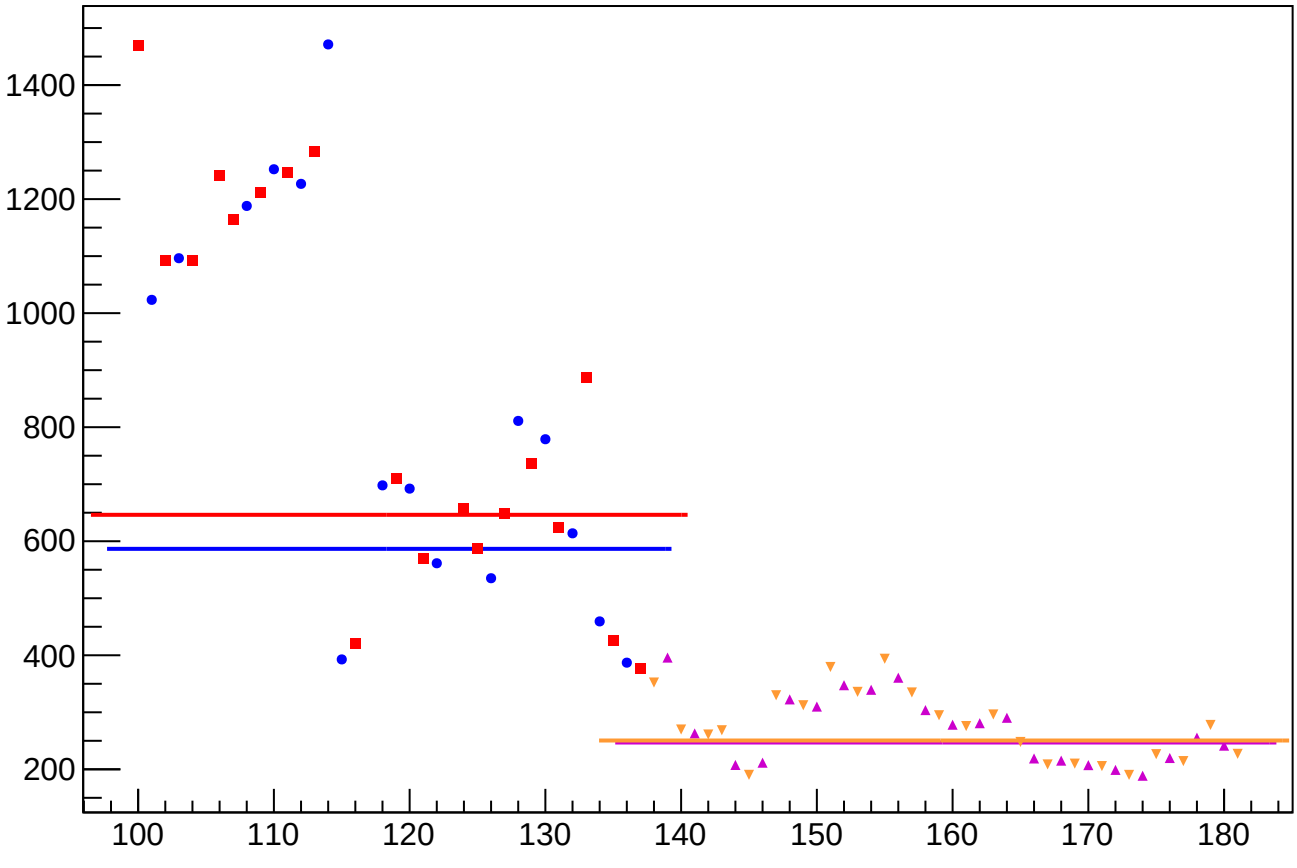
Left: -125.419+/-42.836 $\chi^2$/NDF: 105.9/43

Right: -104.517+/-174.059 $\chi^2$/NDF: 33.2/34

In: 13.518+/-59.125 $\chi^2$/NDF:44.9/36

Out: -259.199+/-58.528 $\chi^2$/NDF:83.4/41

All: -124.225+/-41.595 $\chi^2$/NDF: 139.1/78




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053169.7/15

Left Out: 250.523+/-0.043 $\chi^2$/NDF:1632330.3/22

Right Out: 646.328+/-0.181 $\chi^2$/NDF: 2063185.3/18

Left In: 246.987+/-0.043 $\chi^2$/NDF:1483588.0/20

Left: 248.782+/-0.030 $\chi^2$/NDF: 3119324.5/43

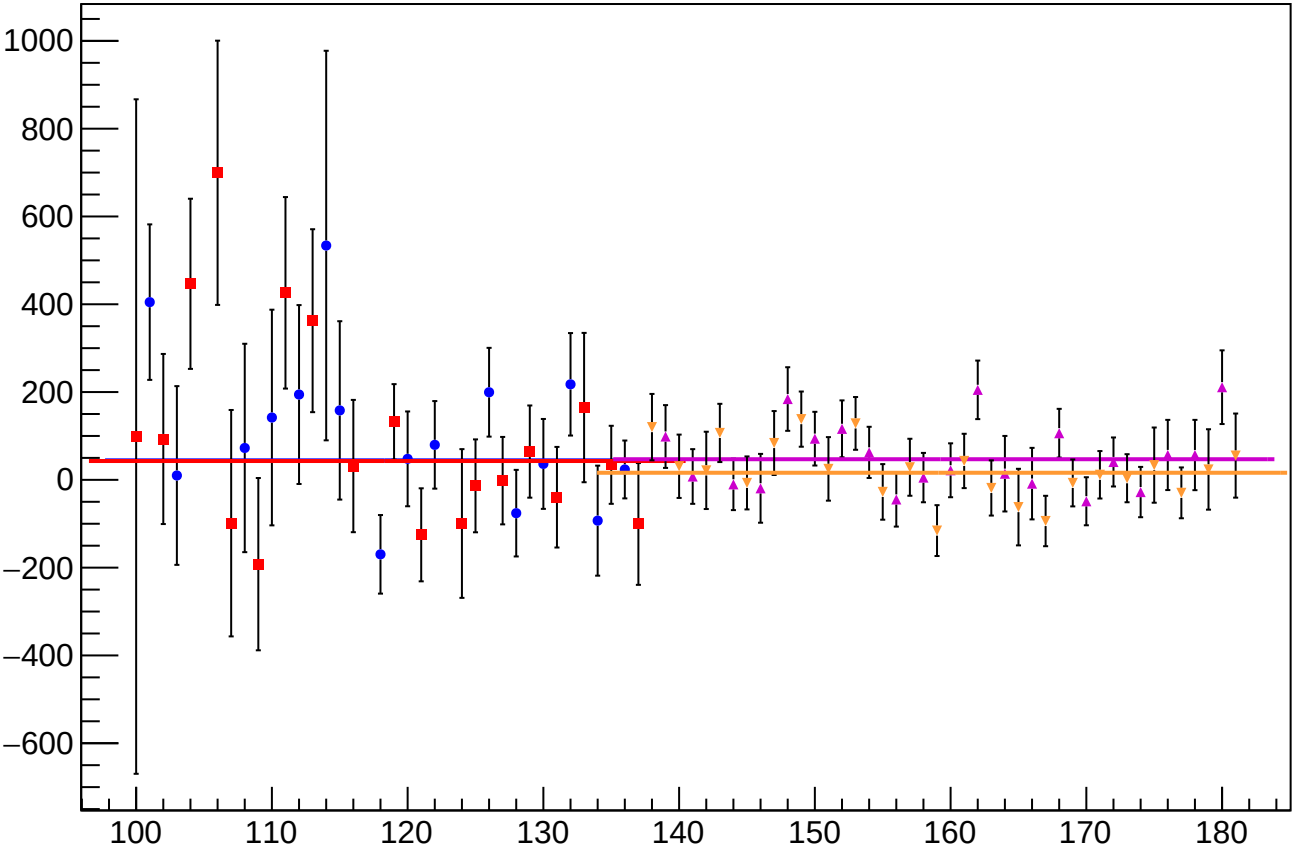
Right: 614.121+/-0.123 $\chi^2$/NDF: 4174772.7/34

In: 268.136+/-0.042 $\chi^2$/NDF:7390646.6/36

Out: 271.125+/-0.041 $\chi^2$/NDF:8208751.8/41

All: 269.645+/-0.029 $\chi^2$/NDF: 15601980.5/78

# dit_asym_sam_1526_avg_mean vs Slug, Sign Corrected




Right In: 44.387+/-29.909 $\chi^2$/NDF: 19.6/15

Left Out: 16.151+/-13.698 $\chi^2$/NDF:23.8/22

Right Out: 42.901+/-31.248 $\chi^2$/NDF: 23.3/18

Left In: 46.985+/-14.159 $\chi^2$/NDF:26.9/20

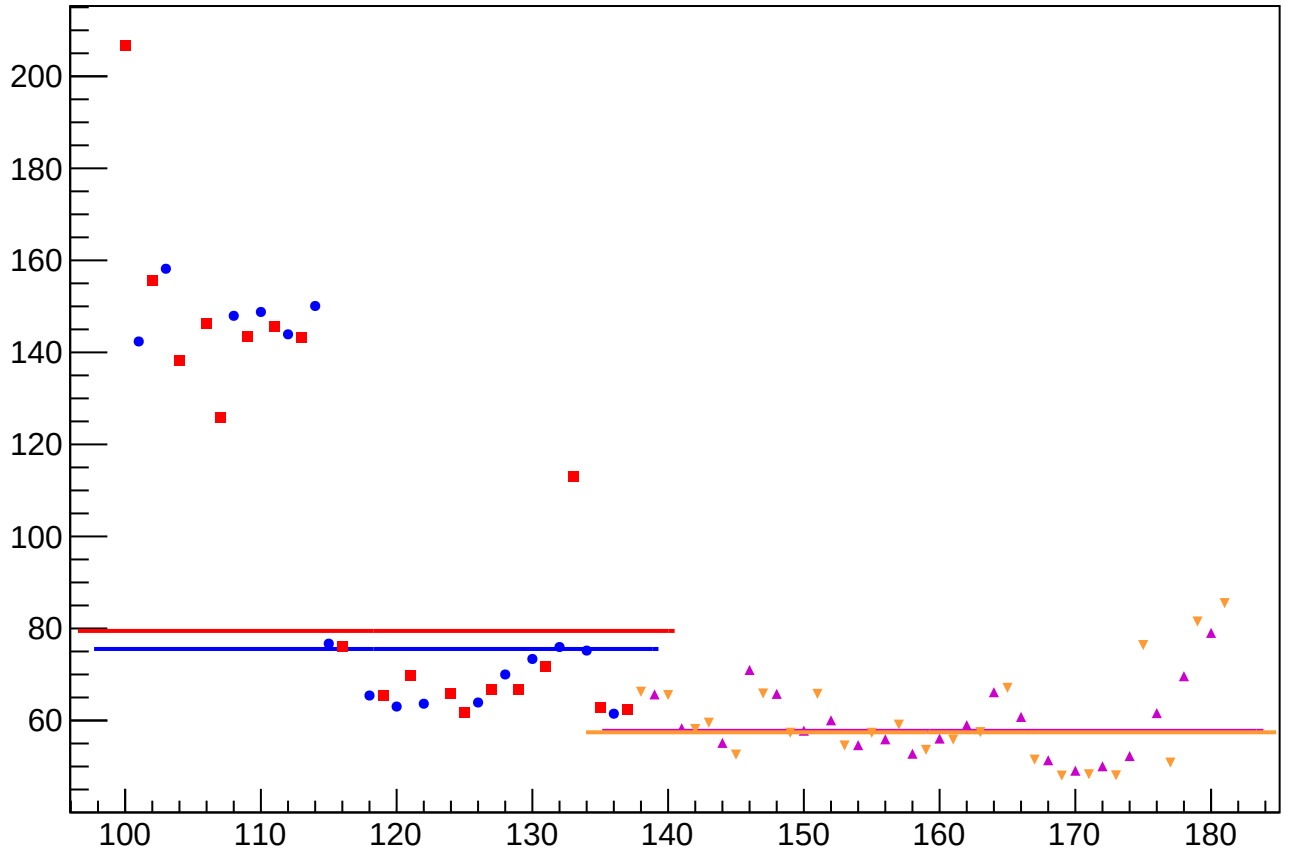
Left: 31.058+/-9.845 $\chi^2$/NDF: 53.2/43

Right: 43.677+/-21.607 $\chi^2$/NDF: 42.9/34

In: 46.509+/-12.798 $\chi^2$/NDF:46.5/36

Out: 20.463+/-12.546 $\chi^2$/NDF:47.7/41

All: 33.227+/-8.959 $\chi^2$/NDF: 96.4/78




Right In: 75.544+/-0.021 $\chi^2$/NDF: 1465550.9/15

Left Out: 57.432+/-0.010 $\chi^2$/NDF:793530.7/22

Right Out: 79.465+/-0.022 $\chi^2$/NDF: 1683634.3/18

Left In: 57.754+/-0.010 $\chi^2$/NDF:470072.2/20

Left: 57.588+/-0.007 $\chi^2$/NDF: 1264138.4/43

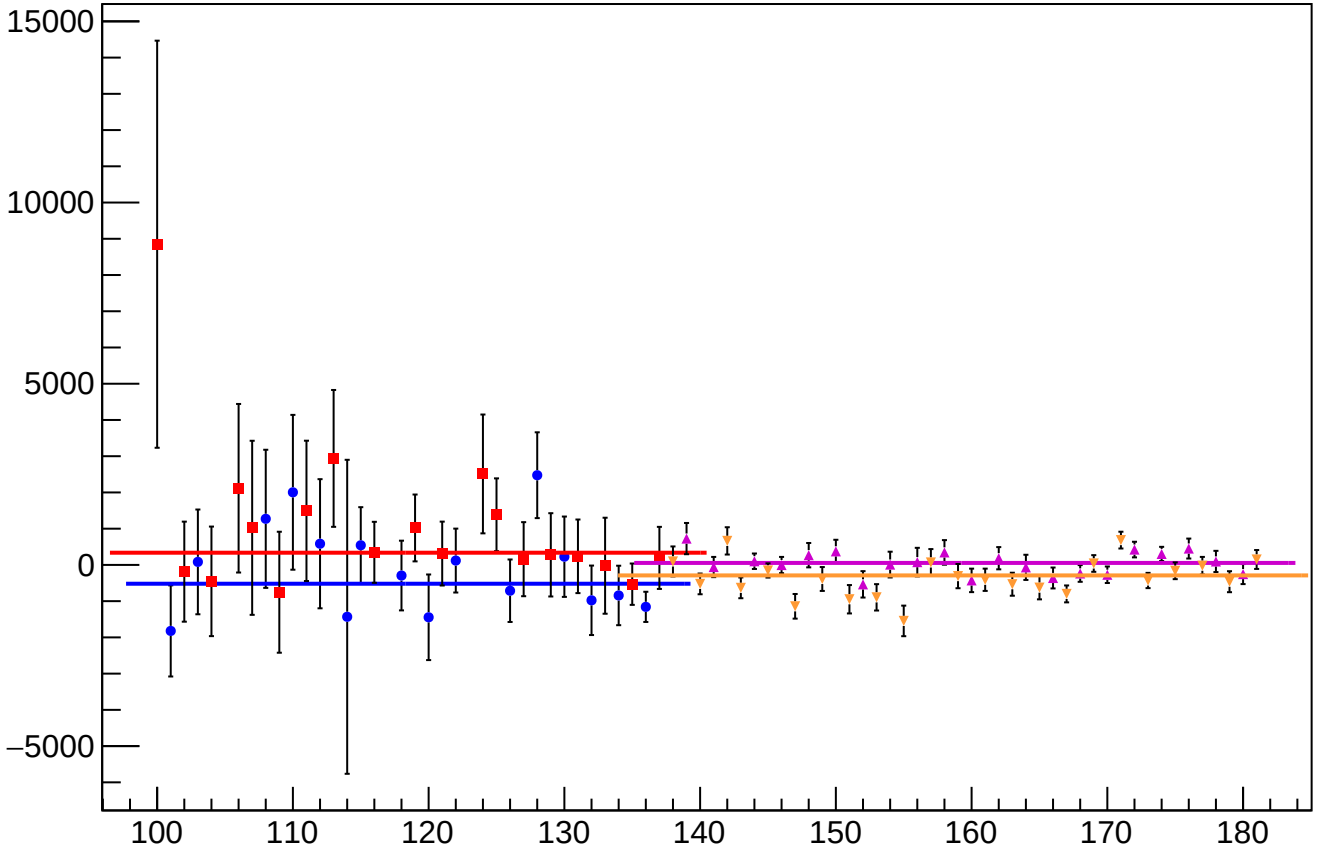
Right: 77.419+/-0.015 $\chi^2$/NDF: 3165620.3/34

In: 61.011+/-0.009 $\chi^2$/NDF:2513681.9/36

Out: 60.984+/-0.009 $\chi^2$/NDF:3311249.1/41

All: 60.997+/-0.006 $\chi^2$/NDF: 5824935.8/78

asym_sam_1526_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -519.250+/-241.317 $\chi^2$/NDF: 15.8/15

Left Out: -289.541+/-58.924 $\chi^2$/NDF:63.2/22

Right Out: 336.731+/-256.618 $\chi^2$/NDF: 11.9/18

Left In: 54.849+/-60.477 $\chi^2$/NDF:23.6/20

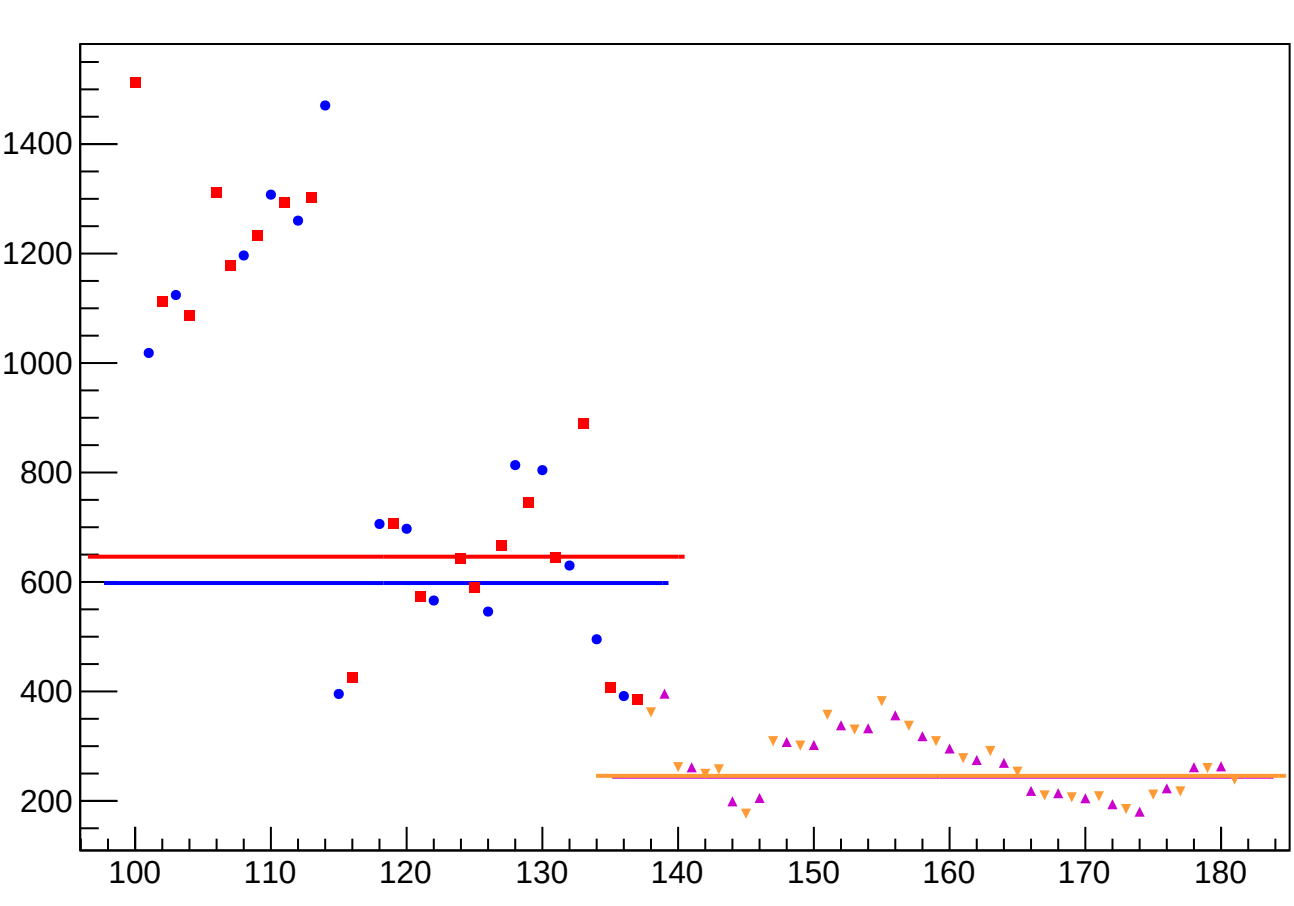
Left: -121.826+/-42.204 $\chi^2$/NDF: 103.4/43

Right: -117.538+/-175.797 $\chi^2$/NDF: 33.6/34

In: 20.922+/-58.663 $\chi^2$/NDF:44.7/36

Out: -258.175+/-57.429 $\chi^2$/NDF:80.7/41

All: -121.592+/-41.038 $\chi^2$/NDF: 137.0/78




Right In: 598.044+/-0.171 $\chi^2$/NDF: 2047825.1/15

Left Out: 245.821+/-0.042 $\chi^2$/NDF:1679957.0/22

Right Out: 646.190+/-0.181 $\chi^2$/NDF: 2205437.4/18

Left In: 244.209+/-0.043 $\chi^2$/NDF:1596275.3/20

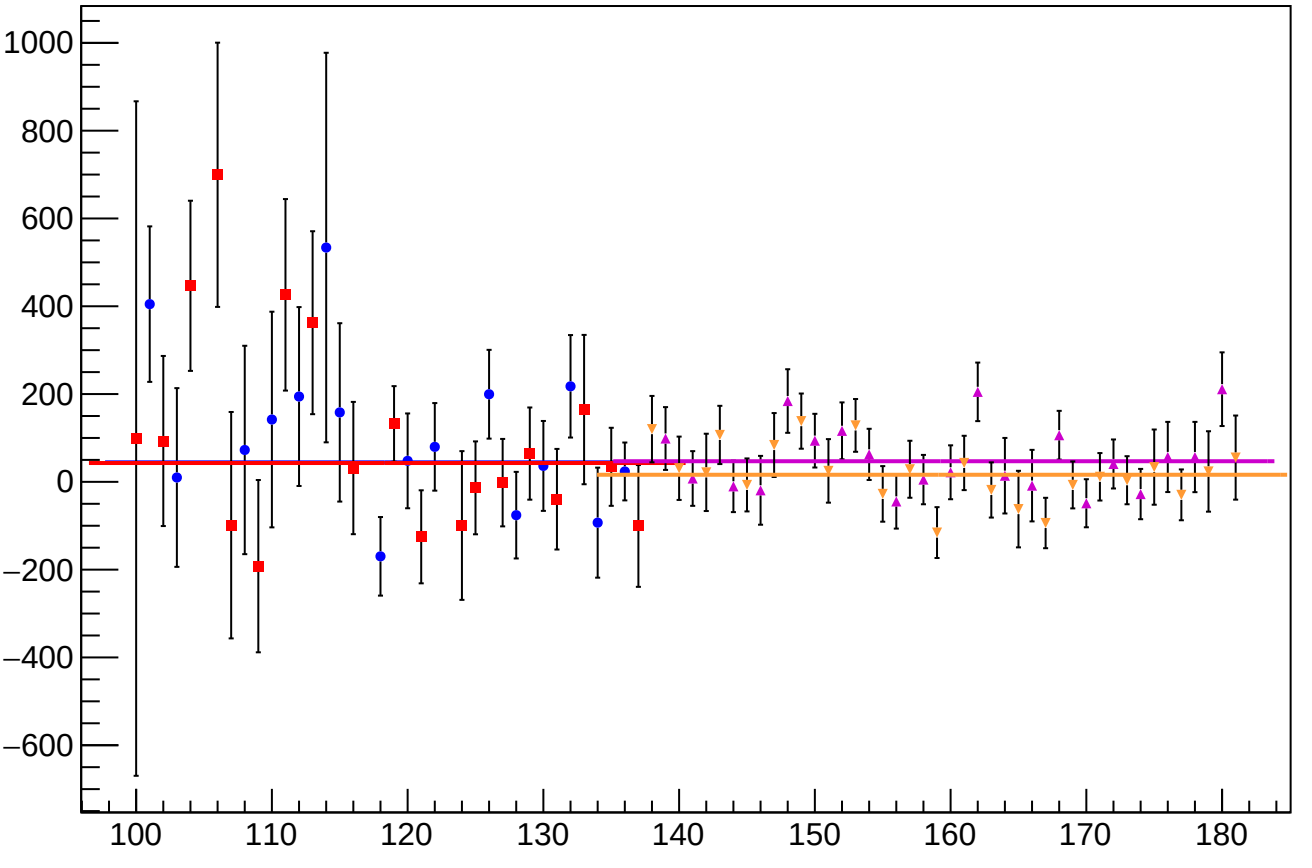
Left: 245.036+/-0.030 $\chi^2$/NDF: 3276961.2/43

Right: 620.639+/-0.124 $\chi^2$/NDF: 4290624.3/34

In: 265.119+/-0.041 $\chi^2$/NDF:7689888.1/36

Out: 265.873+/-0.041 $\chi^2$/NDF:8509879.2/41

All: 265.504+/-0.029 $\chi^2$/NDF: 16199935.9/78




Right In: 44.389+/-29.908 $\chi^2$/NDF: 19.6/15

Left Out: 16.150+/-13.698 $\chi^2$/NDF:23.8/22

Right Out: 42.900+/-31.248 $\chi^2$/NDF: 23.3/18

Left In: 46.984+/-14.159 $\chi^2$/NDF:26.9/20

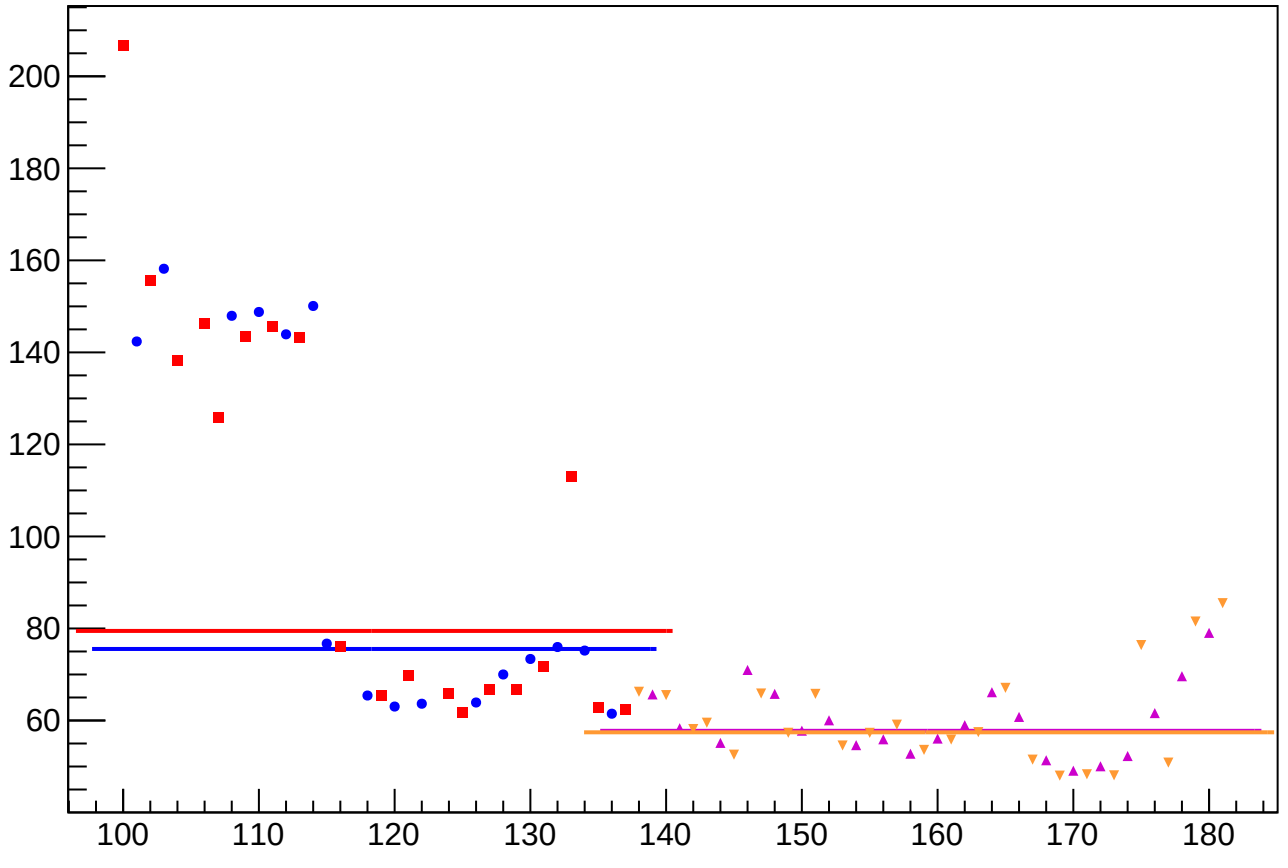
Left: 31.057+/-9.845 $\chi^2$/NDF: 53.2/43

Right: 43.677+/-21.607 $\chi^2$/NDF: 42.9/34

In: 46.509+/-12.798 $\chi^2$/NDF:46.5/36

Out: 20.462+/-12.546 $\chi^2$/NDF:47.7/41

All: 33.227+/-8.959 $\chi^2$/NDF: 96.4/78




Right In: 75.544+/-0.021 $\chi^2$/NDF: 1465535.8/15

Left Out: 57.432+/-0.010 $\chi^2$/NDF:793535.3/22

Right Out: 79.465+/-0.022 $\chi^2$/NDF: 1683627.3/18

Left In: 57.754+/-0.010 $\chi^2$/NDF:470065.1/20

Left: 57.588+/-0.007 $\chi^2$/NDF: 1264136.1/43

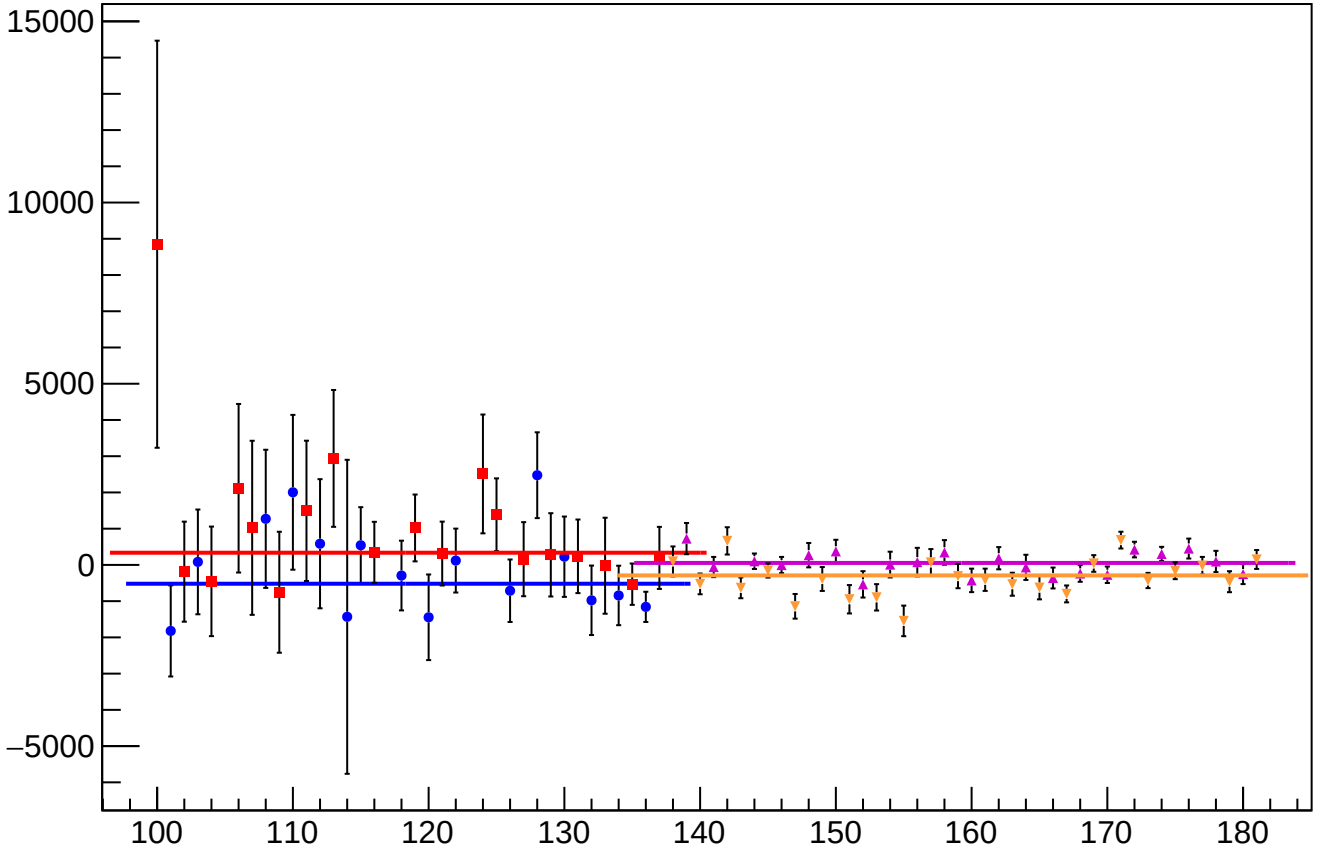
Right: 77.419+/-0.015 $\chi^2$/NDF: 3165598.5/34

In: 61.012+/-0.009 $\chi^2$/NDF:2513632.5/36

Out: 60.984+/-0.009 $\chi^2$/NDF:3311223.0/41

All: 60.997+/-0.006 $\chi^2$/NDF: 5824860.4/78

asym_sam_1526_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -519.247+/-241.316 $\chi^2$/NDF: 15.8/15

Left Out: -289.540+/-58.924 $\chi^2$/NDF:63.2/22

Right Out: 336.731+/-256.617 $\chi^2$/NDF: 11.9/18

Left In: 54.848+/-60.477 $\chi^2$/NDF:23.6/20

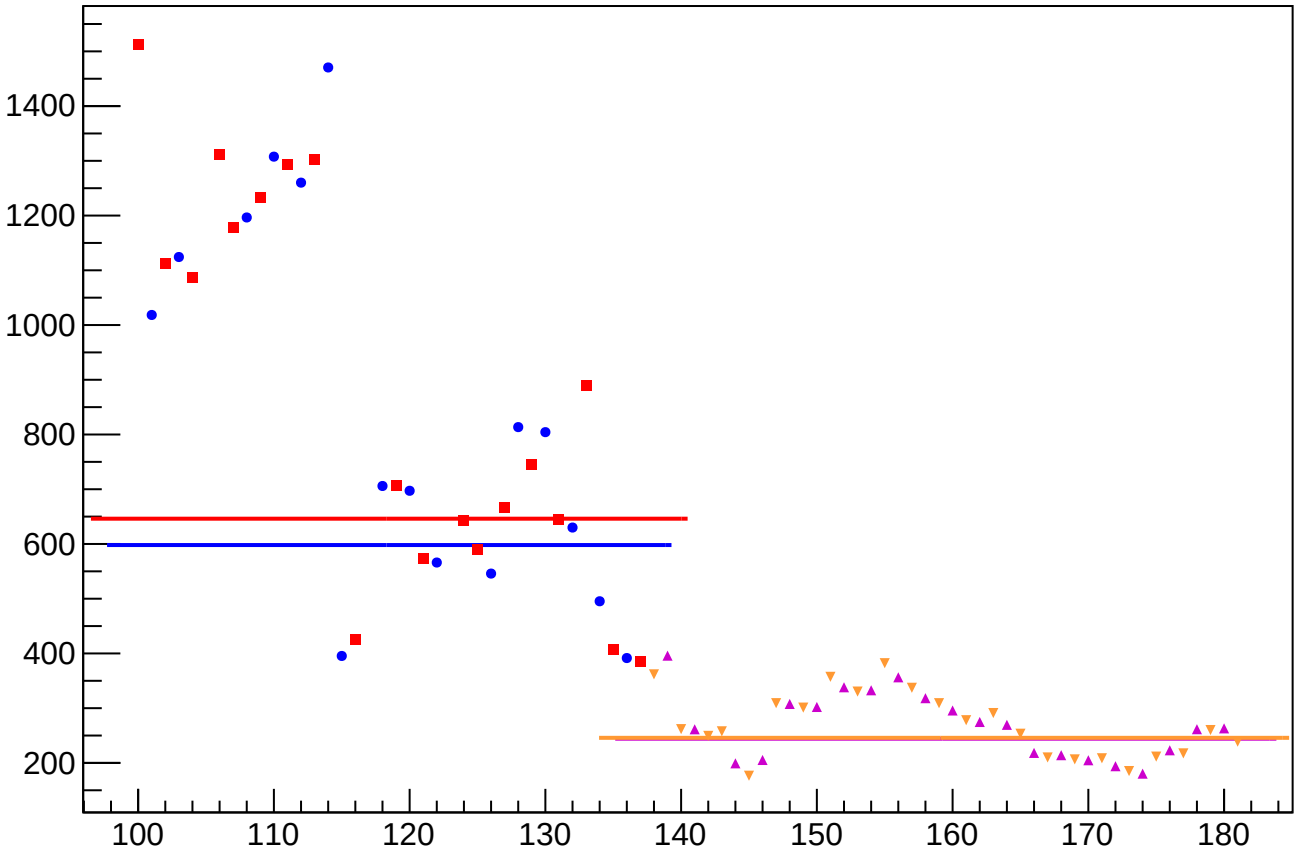
Left: -121.826+/-42.204 $\chi^2$/NDF: 103.4/43

Right: -117.537+/-175.797 $\chi^2$/NDF: 33.6/34

In: 20.921+/-58.663 $\chi^2$/NDF:44.7/36

Out: -258.174+/-57.429 $\chi^2$/NDF:80.7/41

All: -121.592+/-41.038 $\chi^2$/NDF: 137.0/78




Right In: 598.044+/-0.171 $\chi^2$/NDF: 2047806.5/15

Left Out: 245.820+/-0.042 $\chi^2$/NDF:1679957.7/22

Right Out: 646.190+/-0.181 $\chi^2$/NDF: 2205421.4/18

Left In: 244.209+/-0.043 $\chi^2$/NDF:1596265.1/20

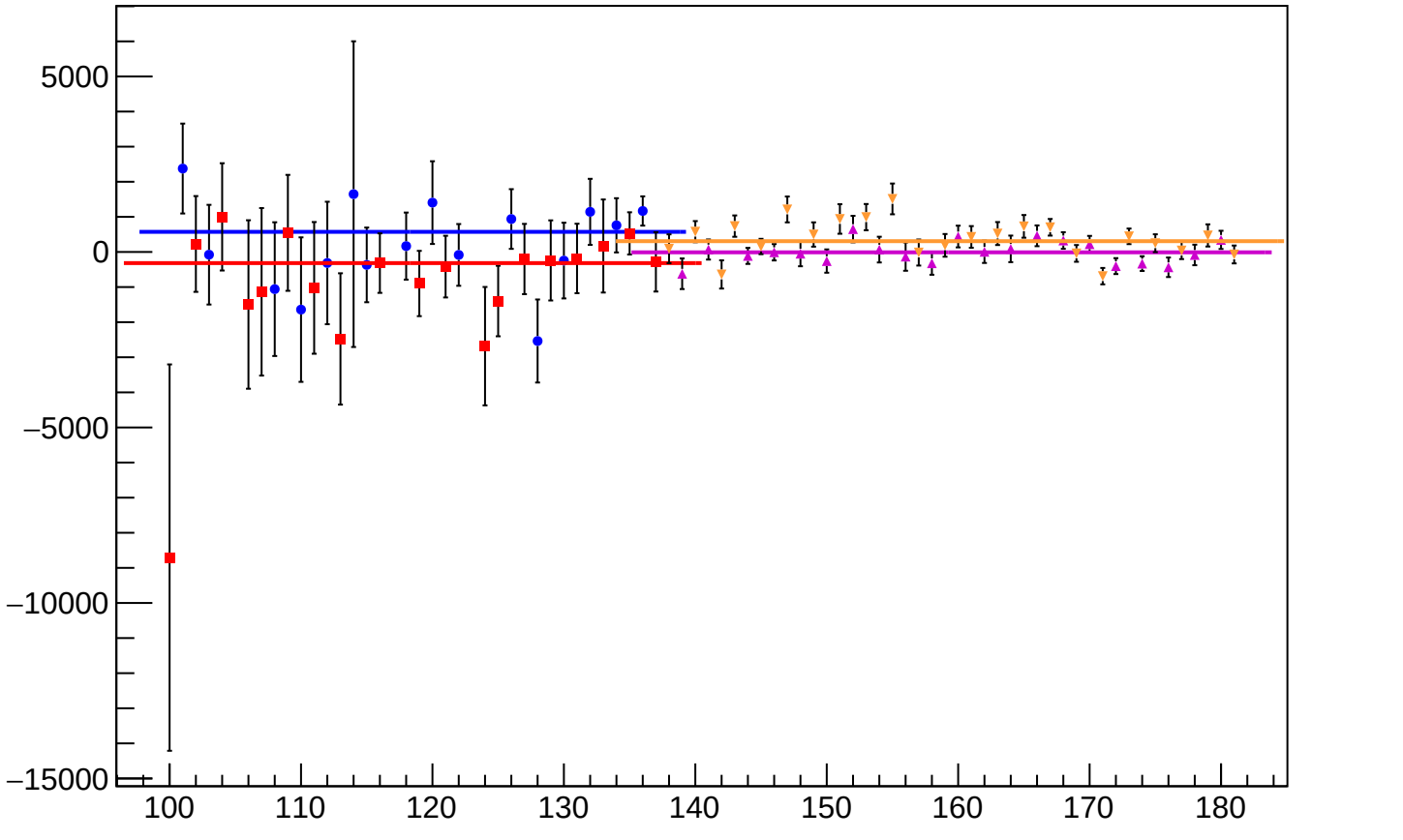
Left: 245.035+/-0.030 $\chi^2$/NDF: 3276951.5/43

Right: 620.638+/-0.124 $\chi^2$/NDF: 4290589.9/34

In: 265.119+/-0.041 $\chi^2$/NDF:7689866.8/36

Out: 265.872+/-0.041 $\chi^2$/NDF:8509877.1/41

All: 265.503+/-0.029 $\chi^2$/NDF: 16199912.4/78




Right In: 573.374+/-238.921 $\chi^2$/NDF: 16.6/15

Left Out: 307.511+/-61.252 $\chi^2$/NDF:59.1/22

Right Out: -316.830+/-258.239 $\chi^2$/NDF: 11.0/18

Left In: -10.397+/-62.276 $\chi^2$/NDF:24.3/20

Left: 151.192+/-43.669 $\chi^2$/NDF: 96.6/43

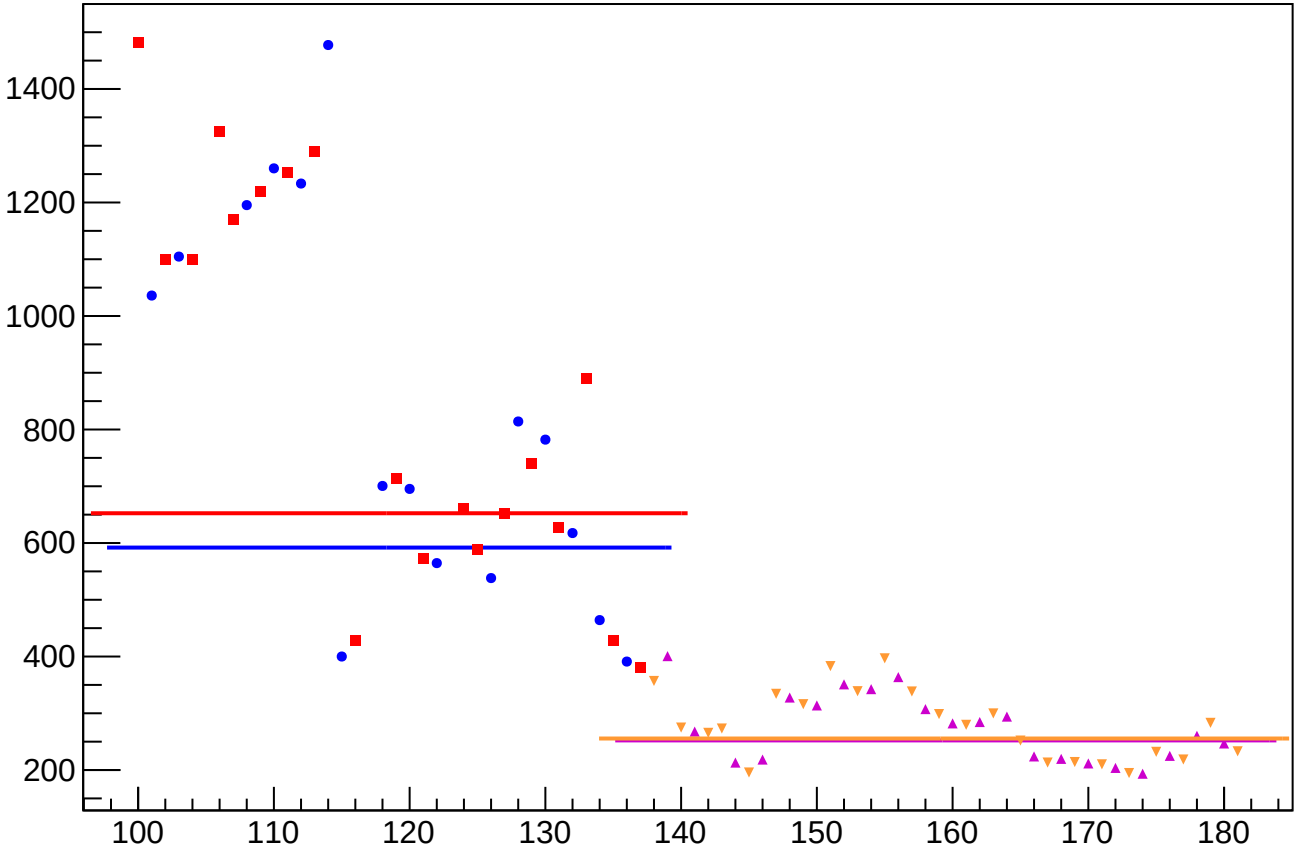
Right: 162.809+/-175.375 $\chi^2$/NDF: 34.0/34

In: 26.742+/-60.262 $\chi^2$/NDF:46.4/36

Out: 274.257+/-59.598 $\chi^2$/NDF:75.6/41

All: 151.871+/-42.375 $\chi^2$/NDF: 130.6/78

# asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 591.974+/-0.169 $\chi^2$/NDF: 2035700.6/15

Left Out: 255.551+/-0.043 $\chi^2$/NDF:1560651.3/22

Right Out: 652.459+/-0.183 $\chi^2$/NDF: 2089983.3/18

Left In: 252.219+/-0.044 $\chi^2$/NDF:1411229.5/20

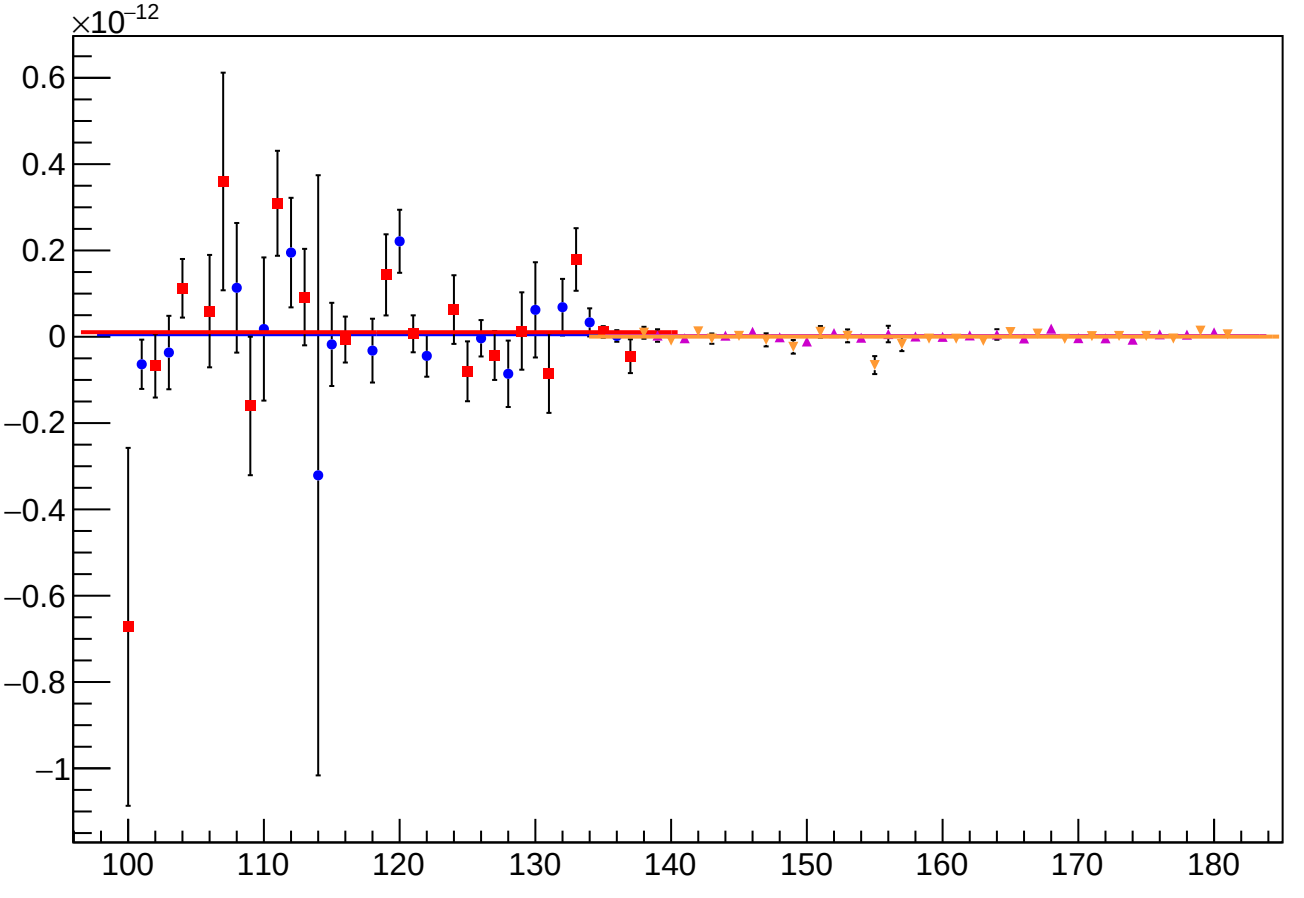
Left: 253.913+/-0.031 $\chi^2$/NDF: 2974791.5/43

Right: 619.870+/-0.124 $\chi^2$/NDF: 4184800.0/34

In: 273.833+/-0.043 $\chi^2$/NDF:7234022.6/36

Out: 276.692+/-0.042 $\chi^2$/NDF:8123610.2/41

All: 275.278+/-0.030 $\chi^2$/NDF: 15359907.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 29.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.6/20

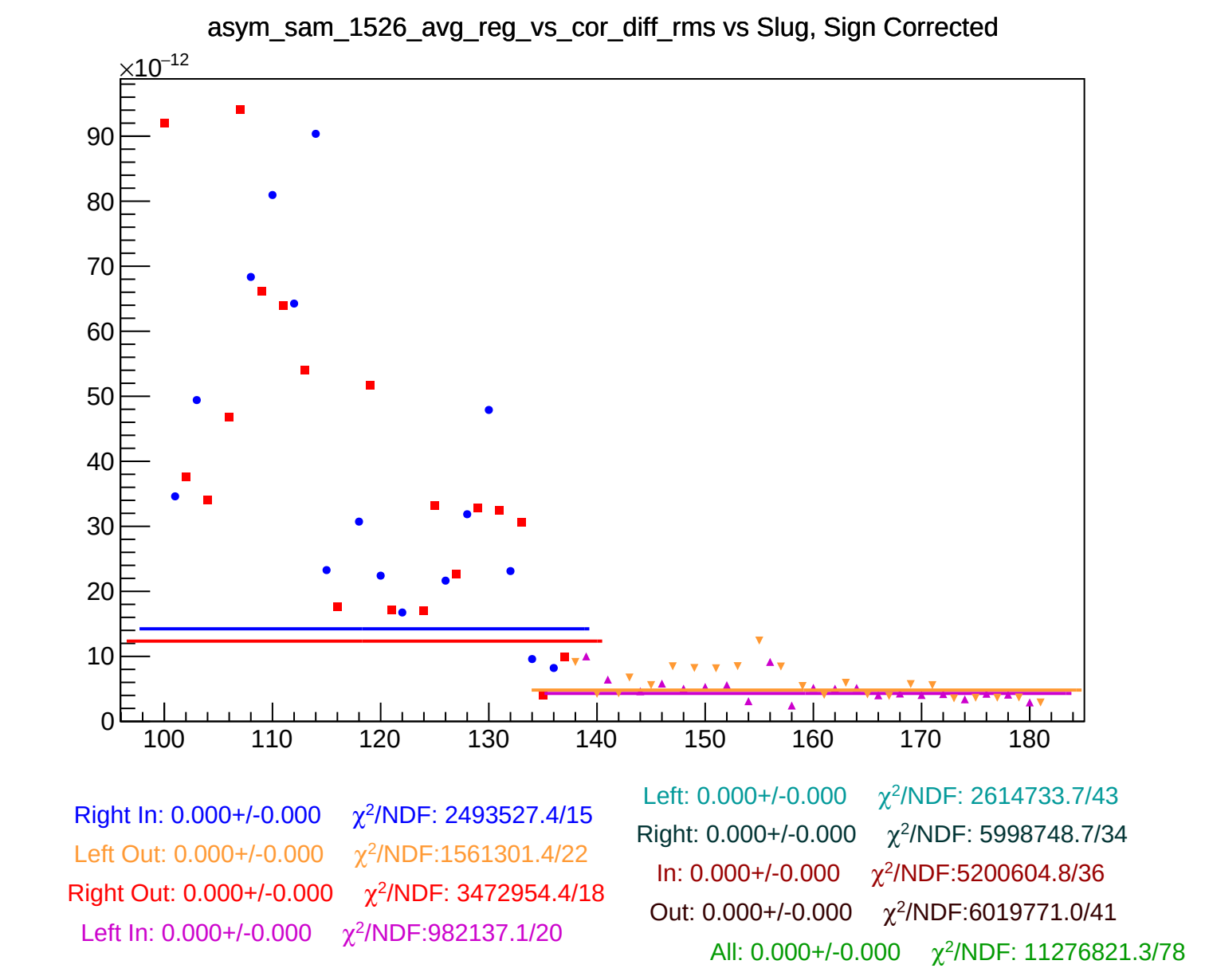
Left: 0.000+/-0.000 $\chi^2$/NDF: 38.5/43

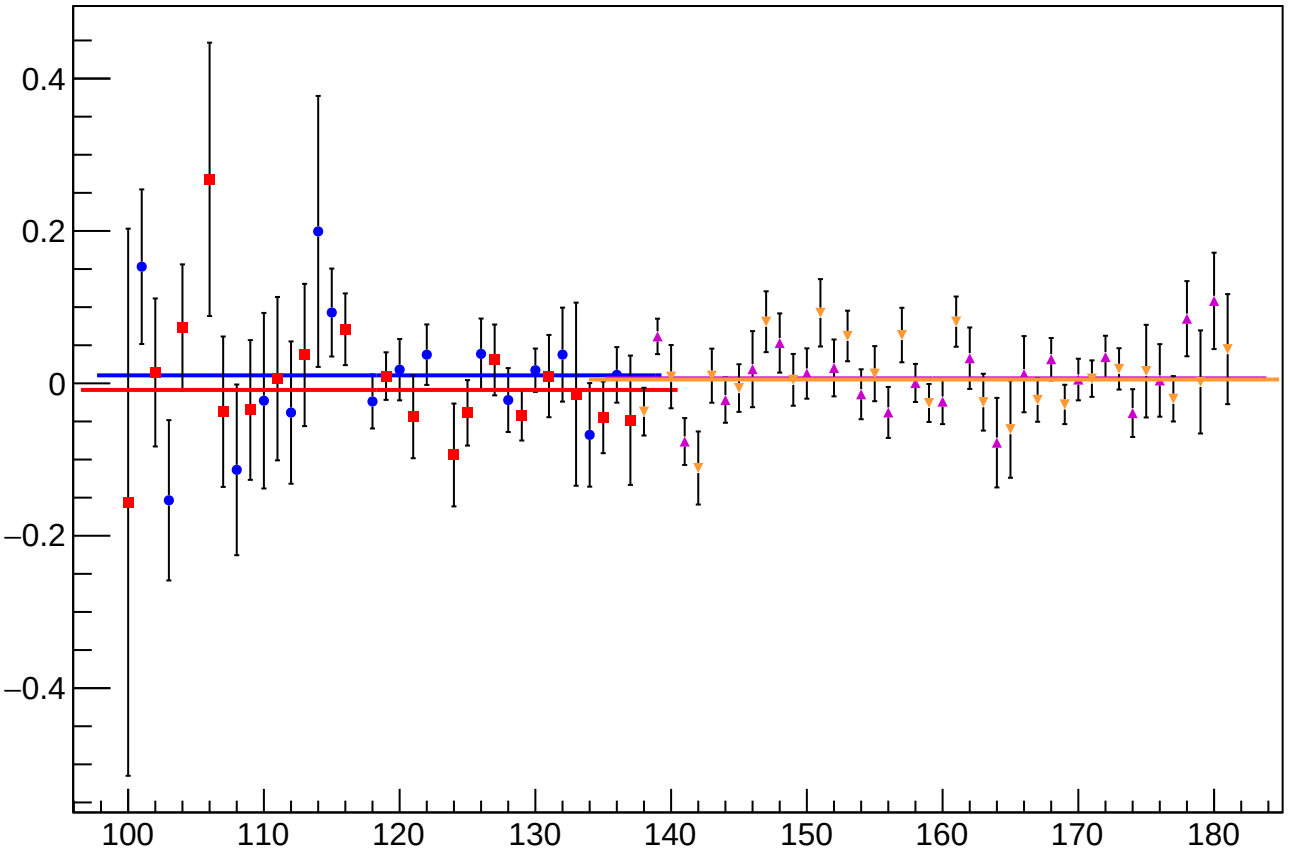
Right: 0.000+/-0.000 $\chi^2$/NDF: 47.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:32.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:55.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 87.2/78


asym_sam_1526_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 2493527.4/15
Left Out: 0.000+/-0.000 χ²/NDF:1561301.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 3472954.4/18
Left In: 0.000+/-0.000 χ²/NDF:982137.1/20
Left: 0.000+/-0.000 χ²/NDF: 2614733.7/43
Right: 0.000+/-0.000 χ²/NDF: 5998748.7/34
In: 0.000+/-0.000 χ²/NDF:5200604.8/36
Out: 0.000+/-0.000 χ²/NDF:6019771.0/41
All: 0.000+/-0.000 χ²/NDF: 11276821.3/78




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:33.4/22

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.007+/-0.007 $\chi^2$/NDF:30.3/20

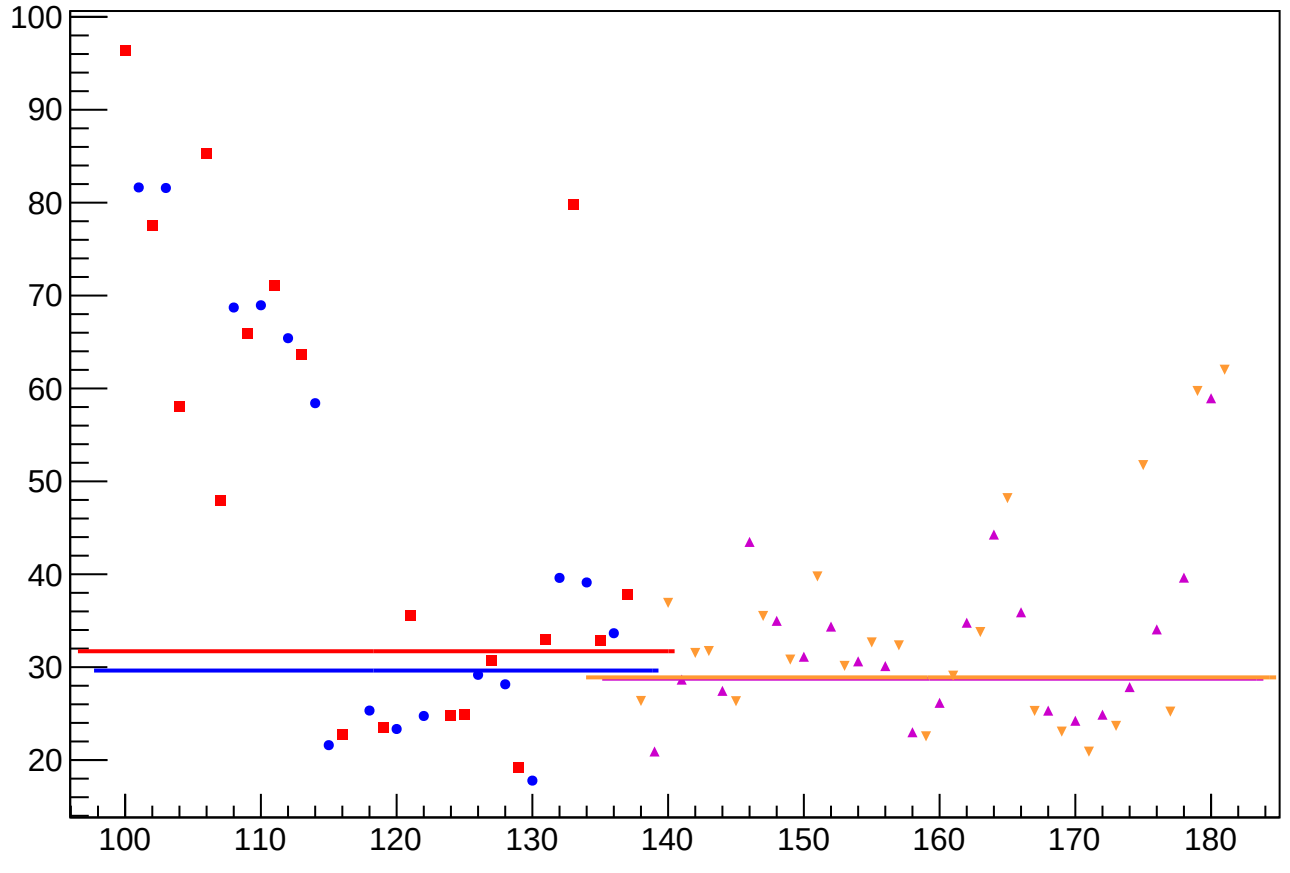
Left: 0.006+/-0.005 $\chi^2$/NDF: 63.7/43

Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.008+/-0.006 $\chi^2$/NDF:43.5/36

Out: 0.002+/-0.006 $\chi^2$/NDF:46.6/41

All: 0.005+/-0.004 $\chi^2$/NDF: 90.5/78




Right In: 29.635+/-0.009 $\chi^2$/NDF: 2448468.0/15

Left Out: 28.899+/-0.005 $\chi^2$/NDF:2272201.9/22

Right Out: 31.712+/-0.009 $\chi^2$/NDF: 2651470.3/18

Left In: 28.759+/-0.005 $\chi^2$/NDF:1571072.2/20

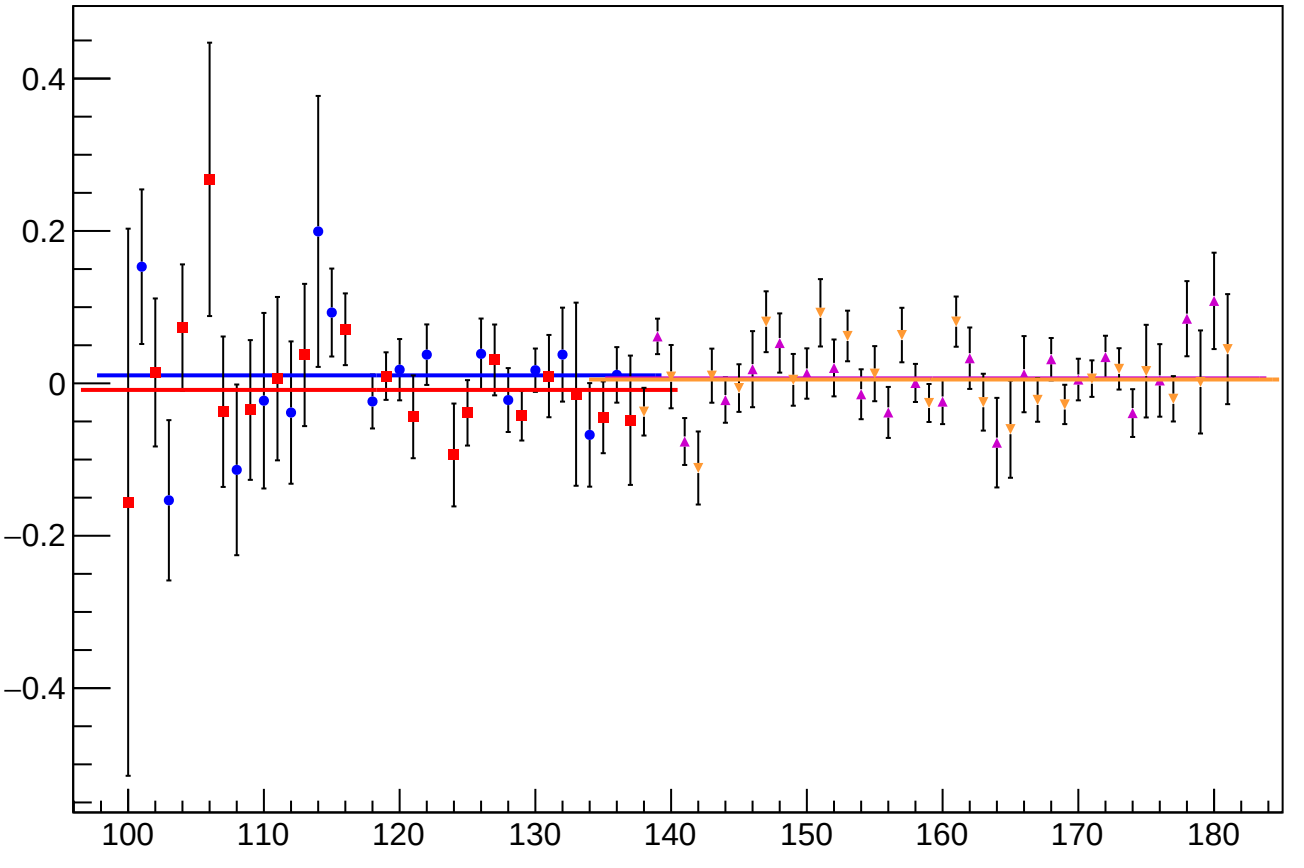
Left: 28.831+/-0.004 $\chi^2$/NDF: 3843649.7/43

Right: 30.618+/-0.006 $\chi^2$/NDF: 5125863.2/34

In: 28.981+/-0.004 $\chi^2$/NDF:4026798.1/36

Out: 29.538+/-0.004 $\chi^2$/NDF:4993456.1/41

All: 29.260+/-0.003 $\chi^2$/NDF: 9028008.4/78




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:33.4/22

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.007+/-0.007 $\chi^2$/NDF:30.3/20

Left: 0.006+/-0.005 $\chi^2$/NDF: 63.7/43

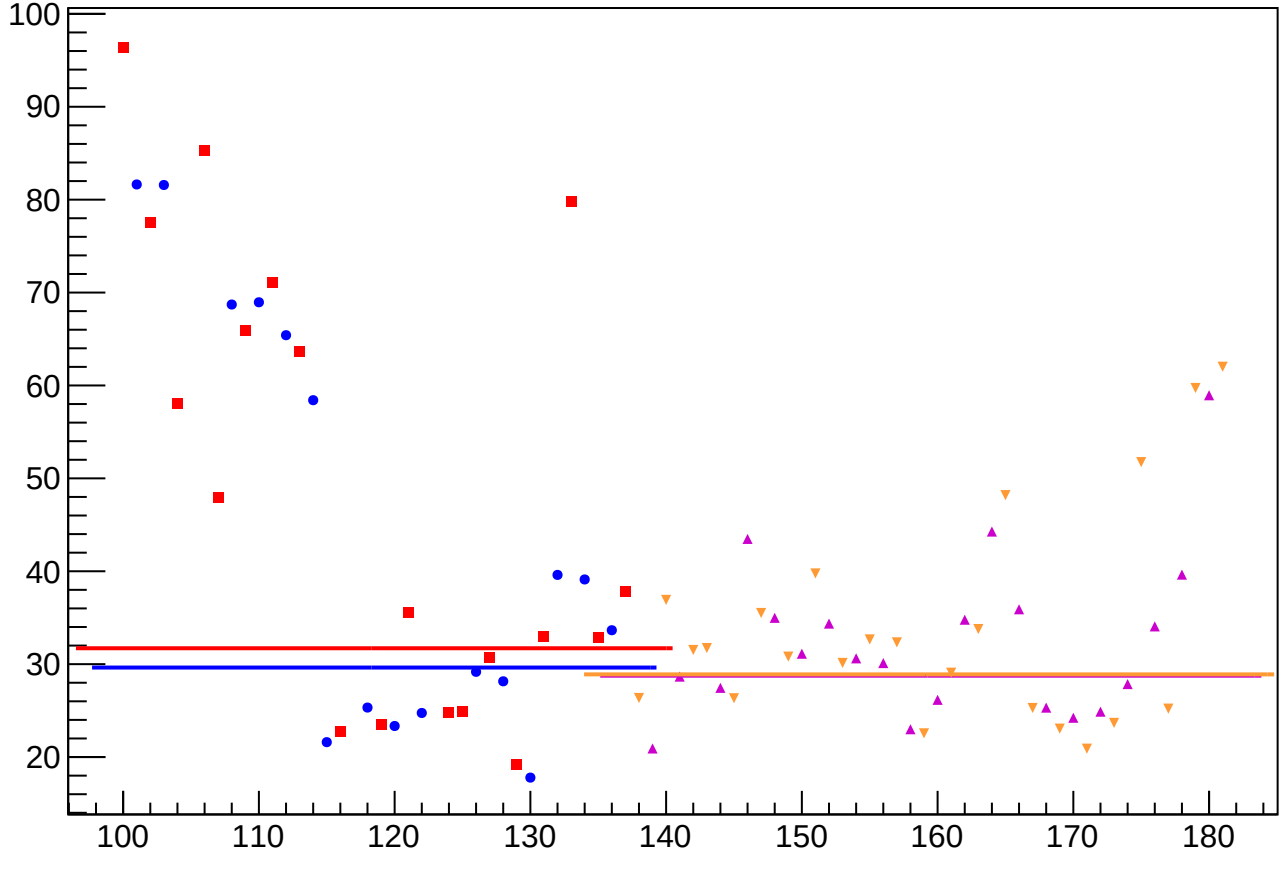
Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.008+/-0.006 $\chi^2$/NDF:43.5/36

Out: 0.002+/-0.006 $\chi^2$/NDF:46.6/41

All: 0.005+/-0.004 $\chi^2$/NDF: 90.5/78

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.635+/-0.009 $\chi^2$/NDF: 2448468.0/15

Left Out: 28.899+/-0.005 $\chi^2$/NDF:2272201.9/22

Right Out: 31.712+/-0.009 $\chi^2$/NDF: 2651470.3/18

Left In: 28.759+/-0.005 $\chi^2$/NDF:1571072.2/20

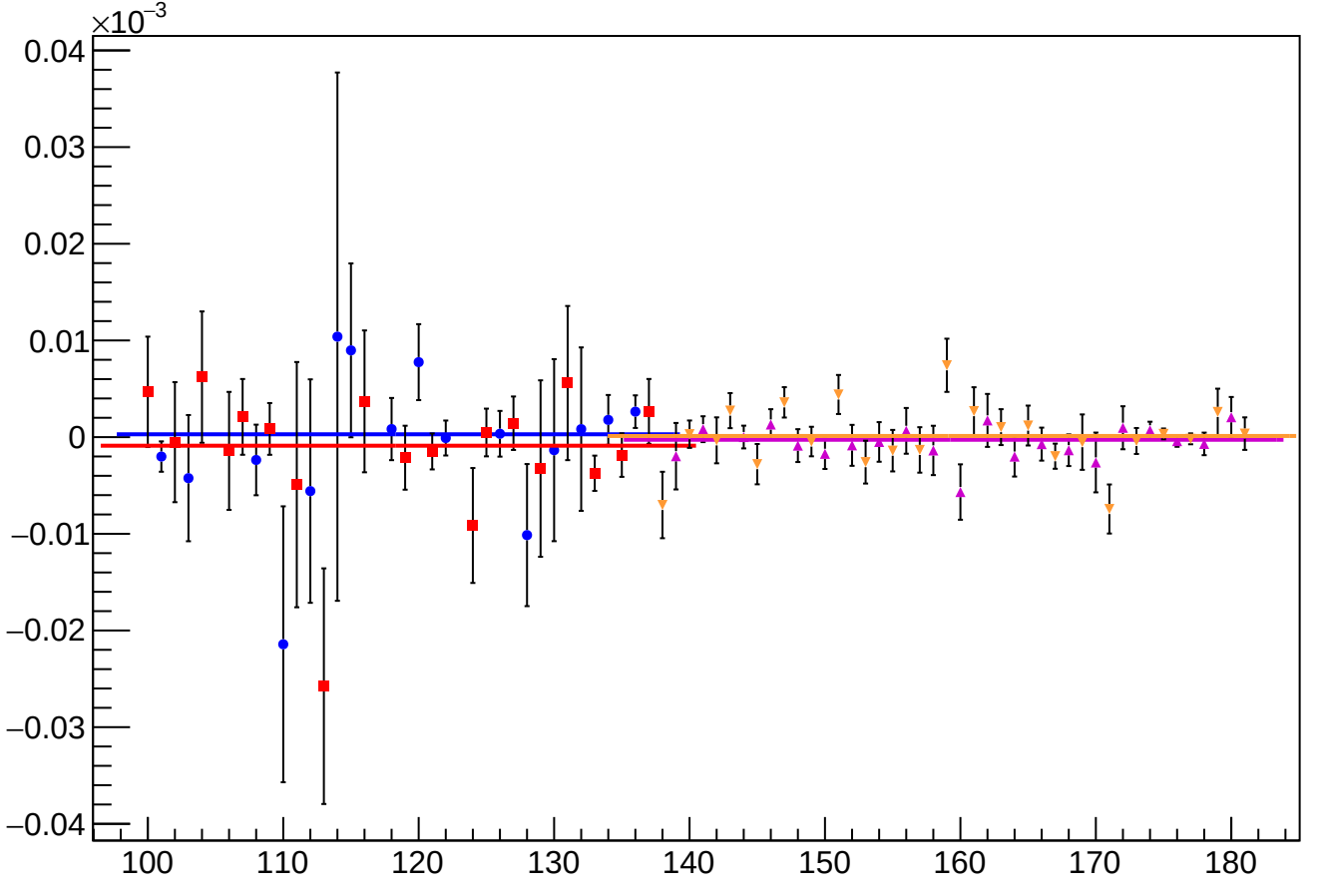
Left: 28.831+/-0.004 $\chi^2$/NDF: 3843649.7/43

Right: 30.618+/-0.006 $\chi^2$/NDF: 5125863.2/34

In: 28.981+/-0.004 $\chi^2$/NDF:4026798.1/36

Out: 29.538+/-0.004 $\chi^2$/NDF:4993456.1/41

All: 29.260+/-0.003 $\chi^2$/NDF: 9028008.4/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:42.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:12.2/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 55.2/43

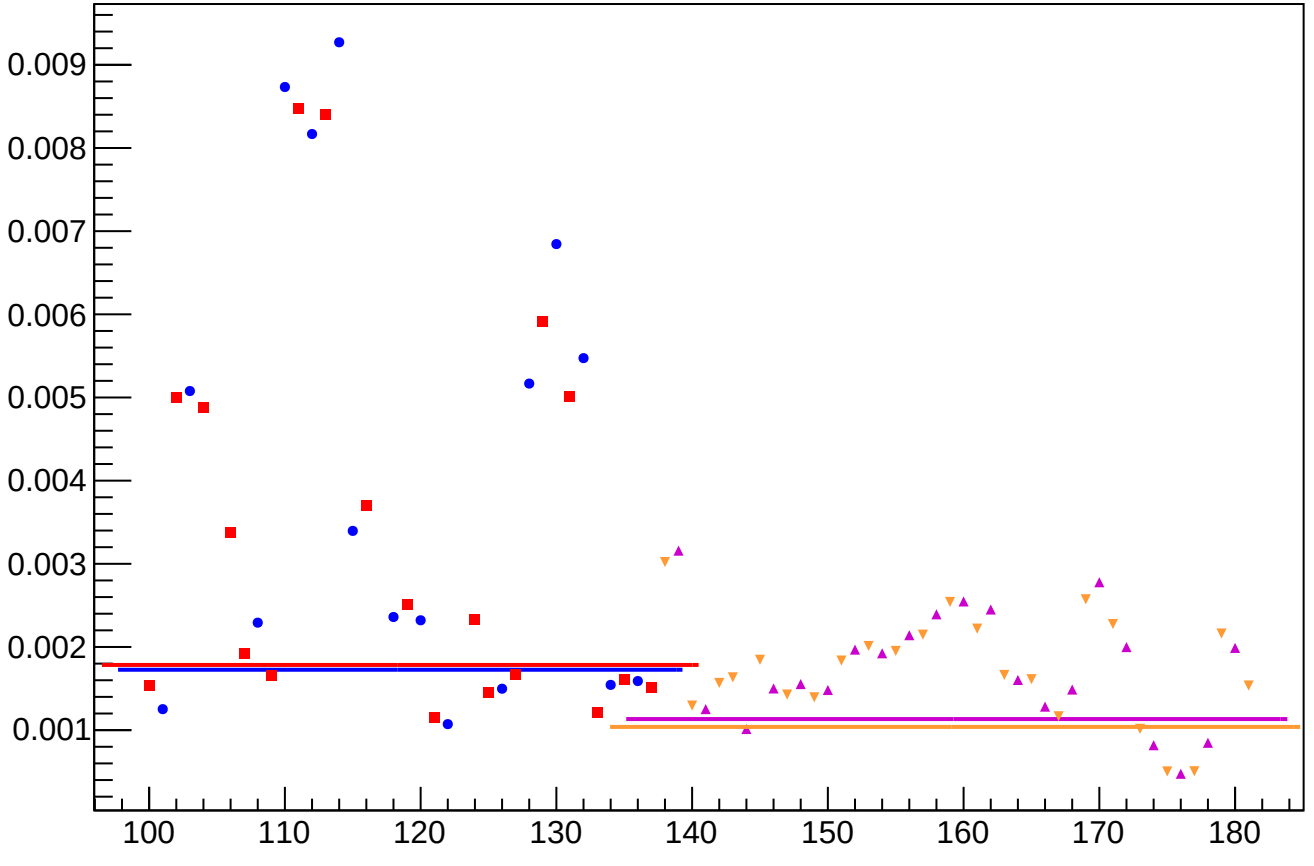
Right: -0.000+/-0.000 $\chi^2$/NDF: 31.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:27.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:59.0/41

All: -0.000+/-0.000 $\chi^2$/NDF: 86.7/78

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3932244.6/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:9815677.8/22

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3718778.6/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:7773110.8/20

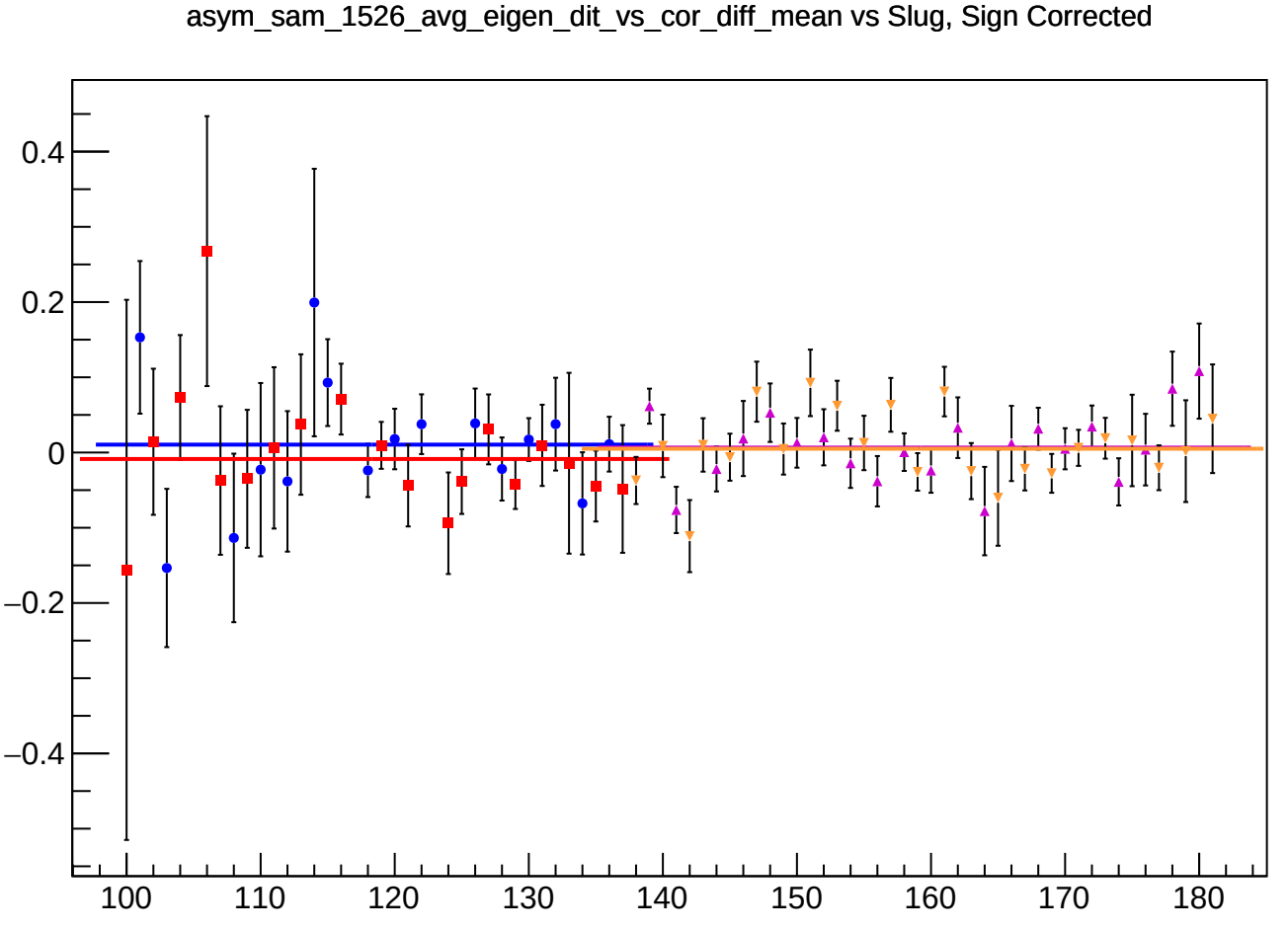
Left: 0.001+/-0.000 $\chi^2$/NDF: 17687005.1/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 7656643.6/34

In: 0.001+/-0.000 $\chi^2$/NDF:12737567.2/36

Out: 0.001+/-0.000 $\chi^2$/NDF:15156079.5/41

All: 0.001+/-0.000 $\chi^2$/NDF: 28001066.9/78




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:33.4/22

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.007+/-0.007 $\chi^2$/NDF:30.3/20

Left: 0.006+/-0.005 $\chi^2$/NDF: 63.7/43

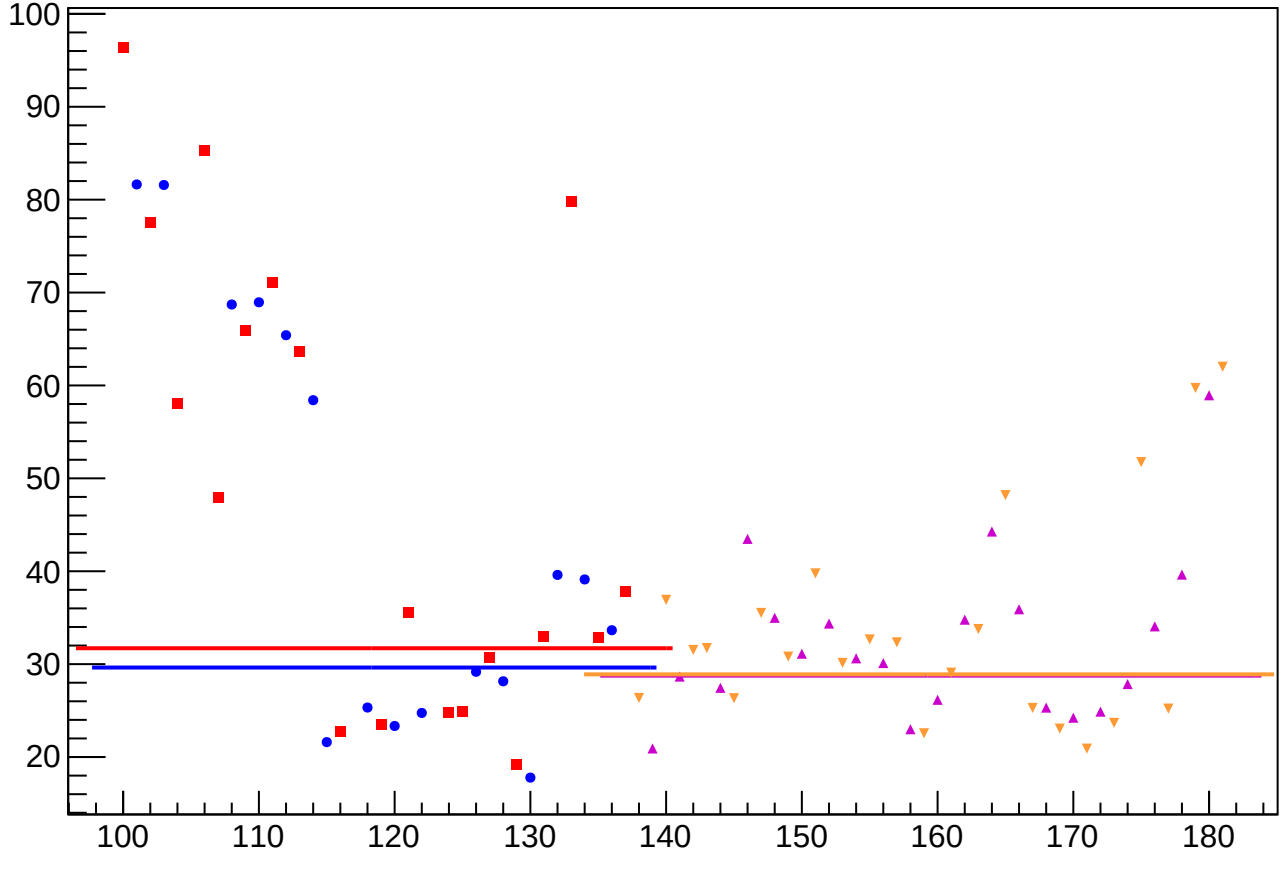
Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.008+/-0.006 $\chi^2$/NDF:43.5/36

Out: 0.002+/-0.006 $\chi^2$/NDF:46.6/41

All: 0.005+/-0.004 $\chi^2$/NDF: 90.5/78

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.633+/-0.009 $\chi^2$/NDF: 2448670.6/15

Left Out: 28.899+/-0.005 $\chi^2$/NDF:2272240.1/22

Right Out: 31.711+/-0.009 $\chi^2$/NDF: 2651638.6/18

Left In: 28.759+/-0.005 $\chi^2$/NDF:1571046.2/20

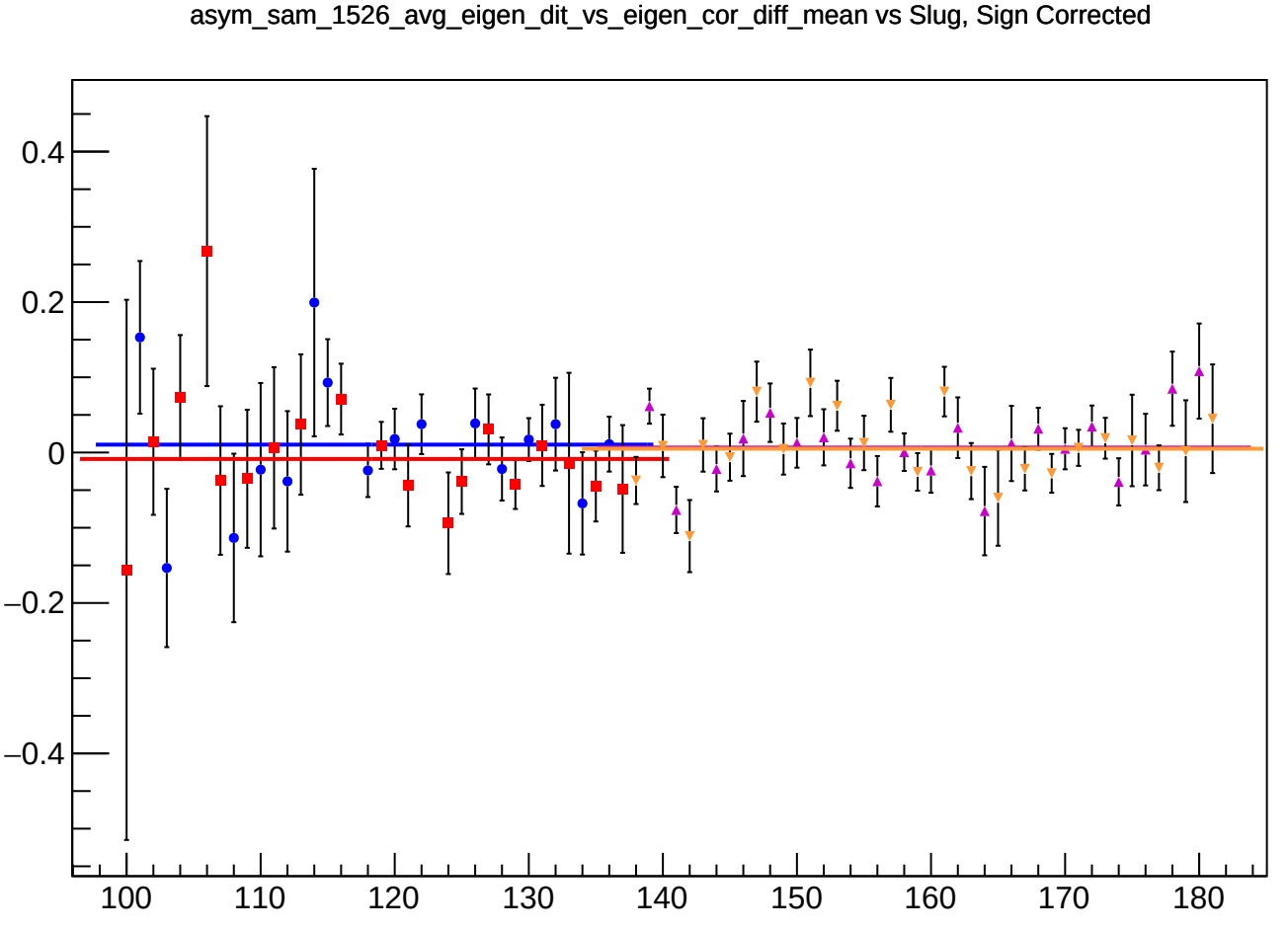
Left: 28.831+/-0.004 $\chi^2$/NDF: 3843660.7/43

Right: 30.617+/-0.006 $\chi^2$/NDF: 5126235.3/34

In: 28.981+/-0.004 $\chi^2$/NDF:4026948.0/36

Out: 29.537+/-0.004 $\chi^2$/NDF:4993594.3/41

All: 29.260+/-0.003 $\chi^2$/NDF: 9028293.5/78




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:33.4/22

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.007+/-0.007 $\chi^2$/NDF:30.3/20

Left: 0.006+/-0.005 $\chi^2$/NDF: 63.7/43

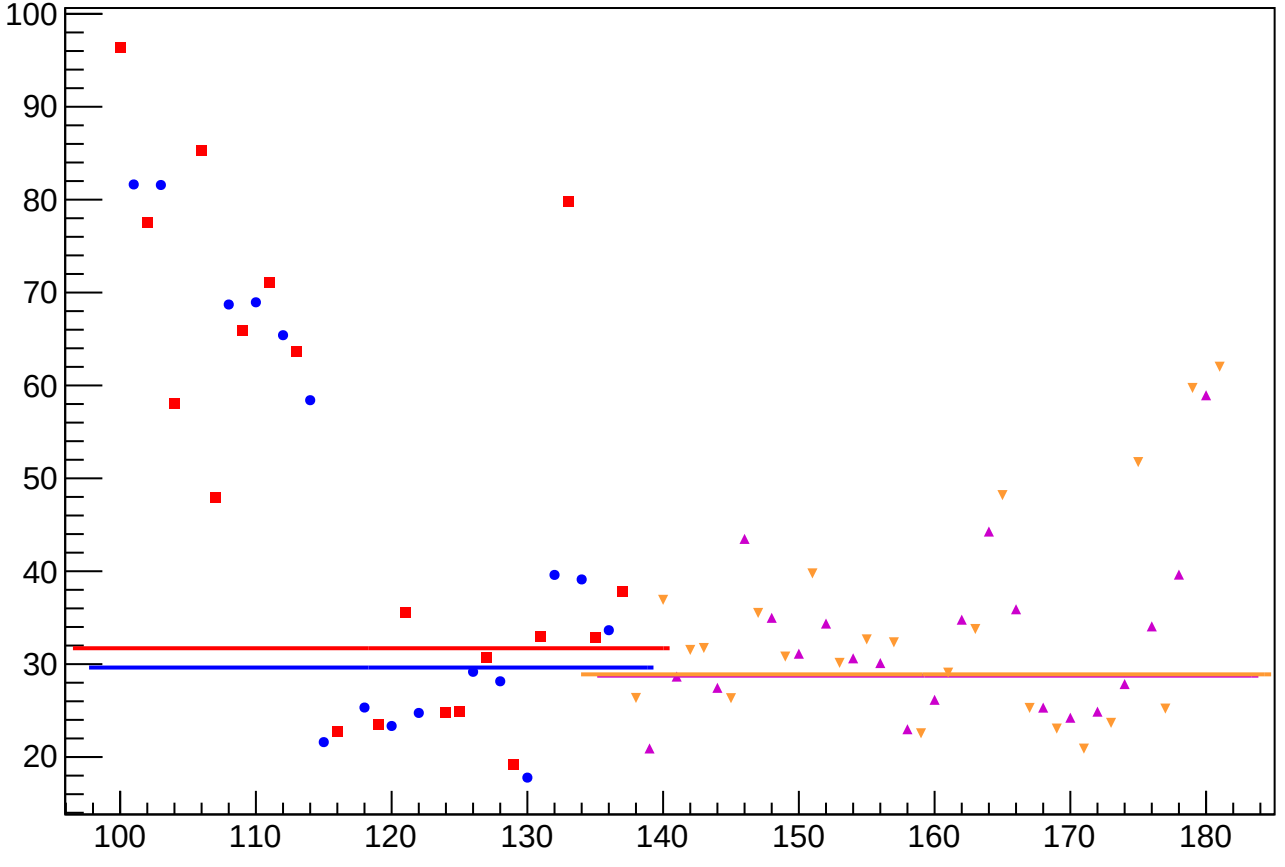
Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.008+/-0.006 $\chi^2$/NDF:43.5/36

Out: 0.002+/-0.006 $\chi^2$/NDF:46.6/41

All: 0.005+/-0.004 $\chi^2$/NDF: 90.5/78

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.633+/-0.009 $\chi^2$/NDF: 2448670.6/15

Left Out: 28.899+/-0.005 $\chi^2$/NDF:2272240.1/22

Right Out: 31.711+/-0.009 $\chi^2$/NDF: 2651638.6/18

Left In: 28.759+/-0.005 $\chi^2$/NDF:1571046.2/20

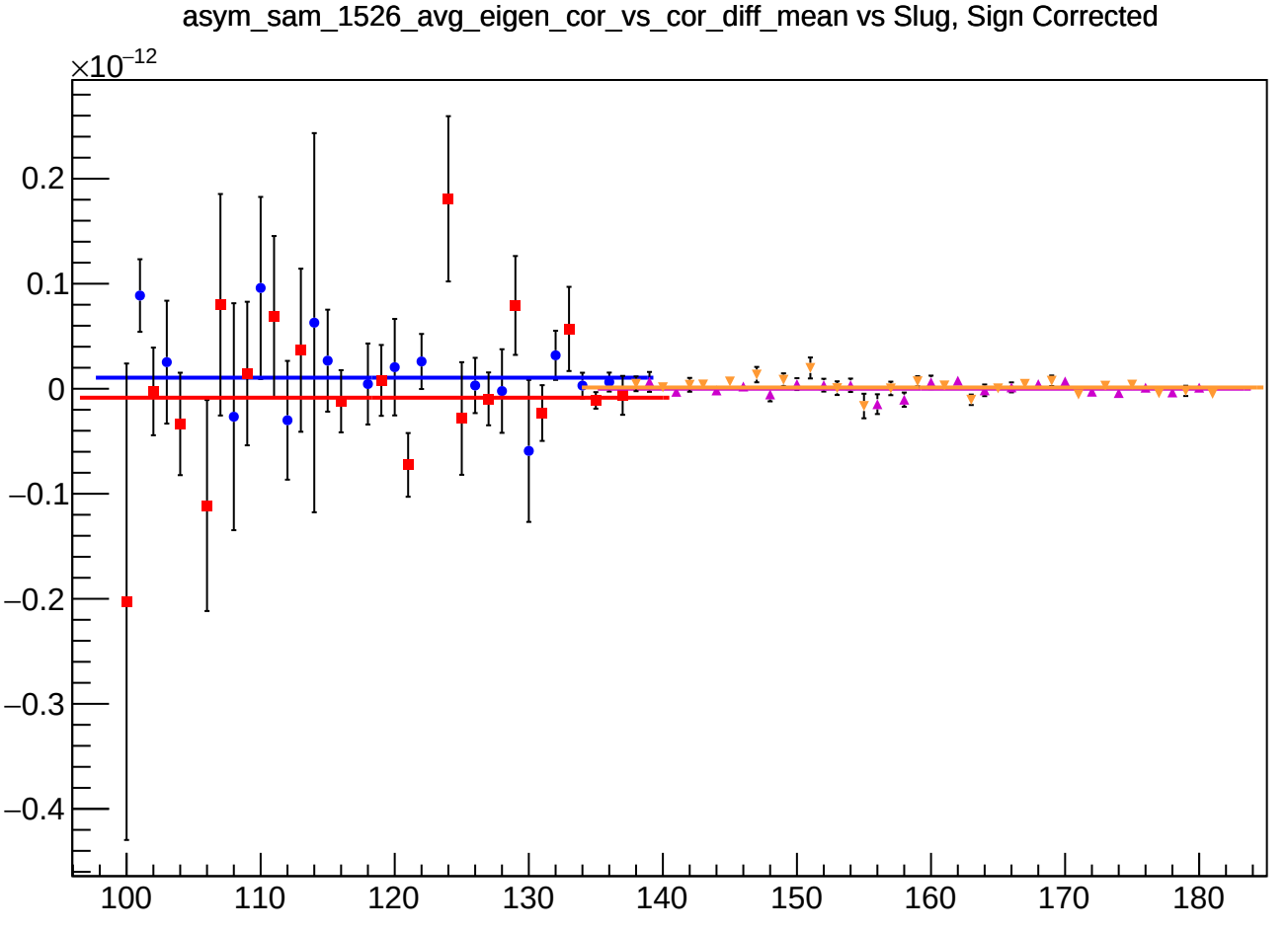
Left: 28.831+/-0.004 $\chi^2$/NDF: 3843660.7/43

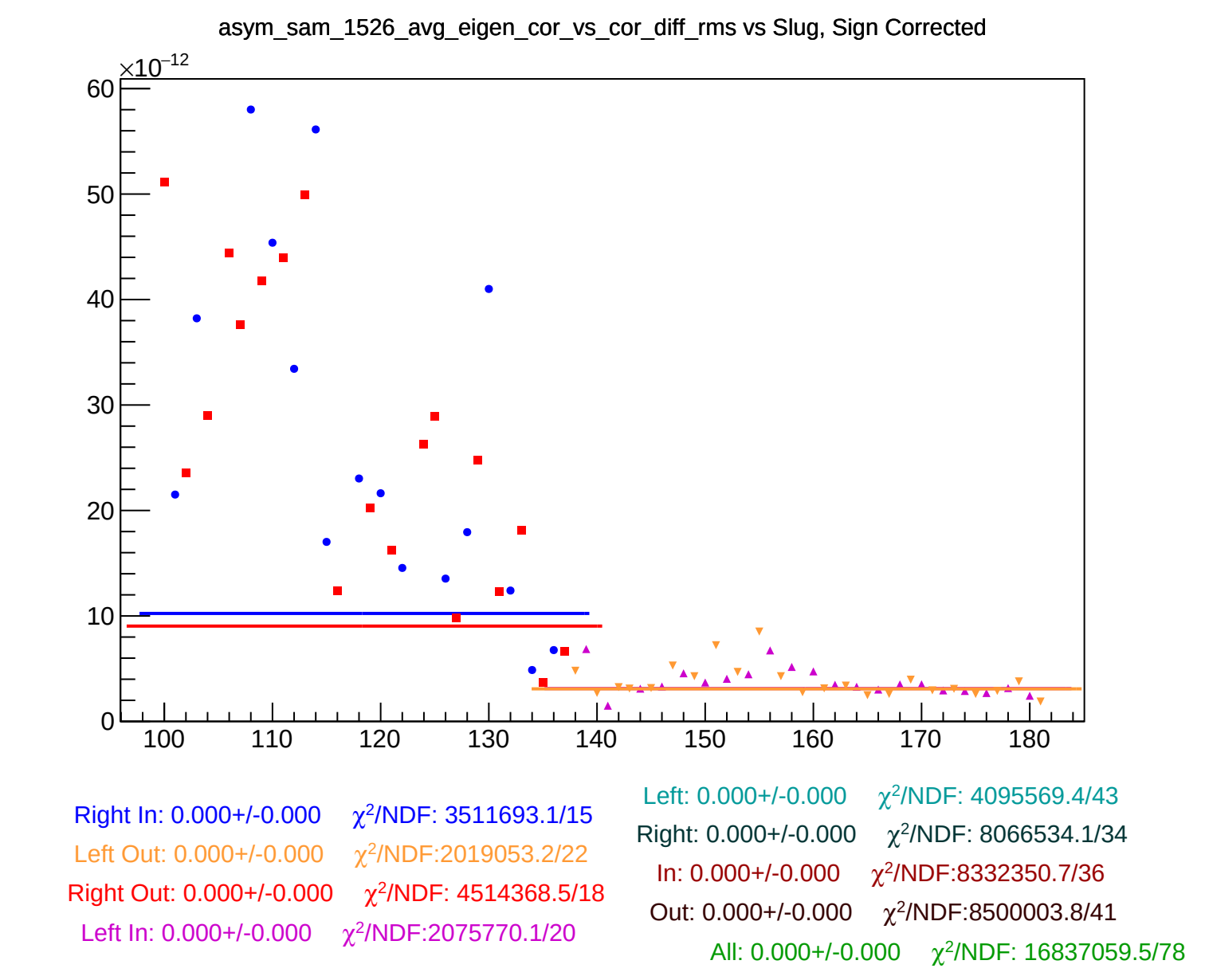
Right: 30.617+/-0.006 $\chi^2$/NDF: 5126235.3/34

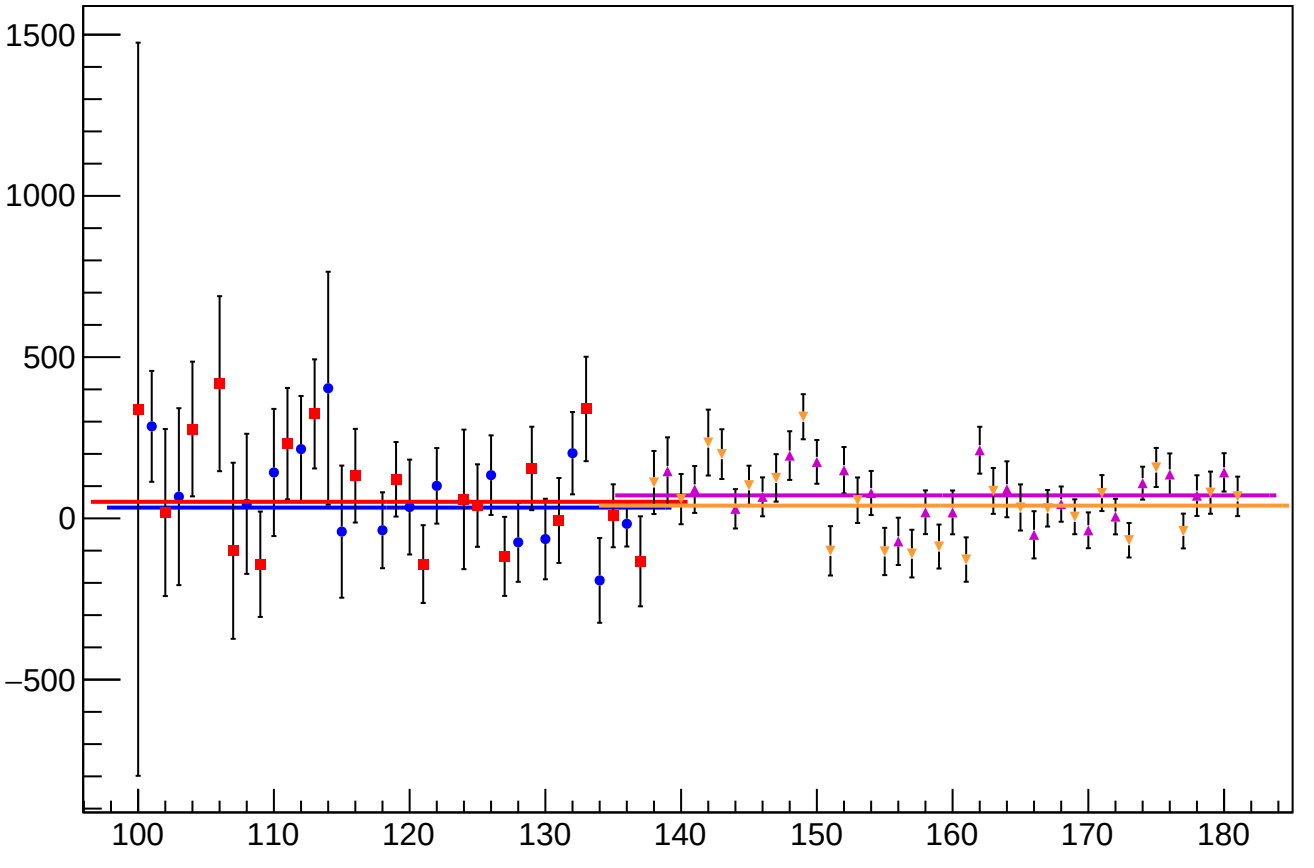
In: 28.981+/-0.004 $\chi^2$/NDF:4026948.0/36

Out: 29.537+/-0.004 $\chi^2$/NDF:4993594.3/41

All: 29.260+/-0.003 $\chi^2$/NDF: 9028293.5/78


asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10⁻¹²
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 10.1/15
Left Out: 0.000+/-0.000 χ²/NDF:33.1/22
Right Out: -0.000+/-0.000 χ²/NDF: 21.4/18
Left In: 0.000+/-0.000 χ²/NDF:18.1/20
Left: 0.000+/-0.000 χ²/NDF: 51.9/43
Right: 0.000+/-0.000 χ²/NDF: 36.6/34
In: 0.000+/-0.000 χ²/NDF:31.2/36
Out: 0.000+/-0.000 χ²/NDF:57.2/41
All: 0.000+/-0.000 χ²/NDF: 88.6/78


asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 3511693.1/15
Left Out: 0.000+/-0.000 χ²/NDF:2019053.2/22
Right Out: 0.000+/-0.000 χ²/NDF: 4514368.5/18
Left In: 0.000+/-0.000 χ²/NDF:2075770.1/20
Left: 0.000+/-0.000 χ²/NDF: 4095569.4/43
Right: 0.000+/-0.000 χ²/NDF: 8066534.1/34
In: 0.000+/-0.000 χ²/NDF:8332350.7/36
Out: 0.000+/-0.000 χ²/NDF:8500003.8/41
All: 0.000+/-0.000 χ²/NDF: 16837059.5/78




Right In: 33.431+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 39.539+/-13.875 $\chi^2$/NDF:59.0/22

Right Out: 51.335+/-34.851 $\chi^2$/NDF: 19.6/18

Left In: 71.287+/-14.296 $\chi^2$/NDF:27.2/20

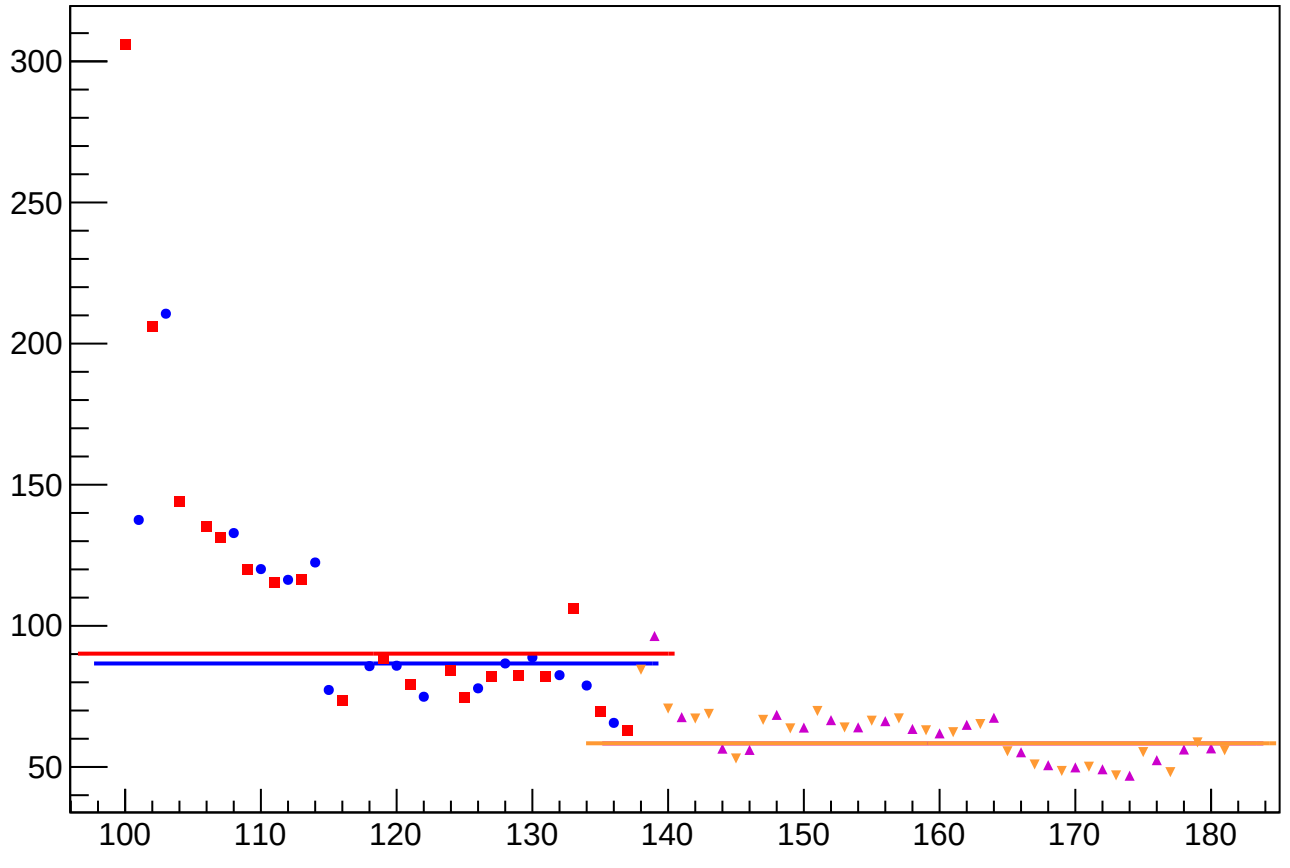
Left: 54.938+/-9.957 $\chi^2$/NDF: 88.8/43

Right: 42.130+/-24.293 $\chi^2$/NDF: 32.5/34

In: 65.565+/-13.172 $\chi^2$/NDF:41.1/36

Out: 41.153+/-12.891 $\chi^2$/NDF:78.7/41

All: 53.096+/-9.213 $\chi^2$/NDF: 121.6/78




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038813.4/15

Left Out: 58.391+/-0.010 $\chi^2$/NDF:758012.9/22

Right Out: 90.153+/-0.025 $\chi^2$/NDF: 1149976.9/18

Left In: 58.340+/-0.010 $\chi^2$/NDF:734684.8/20

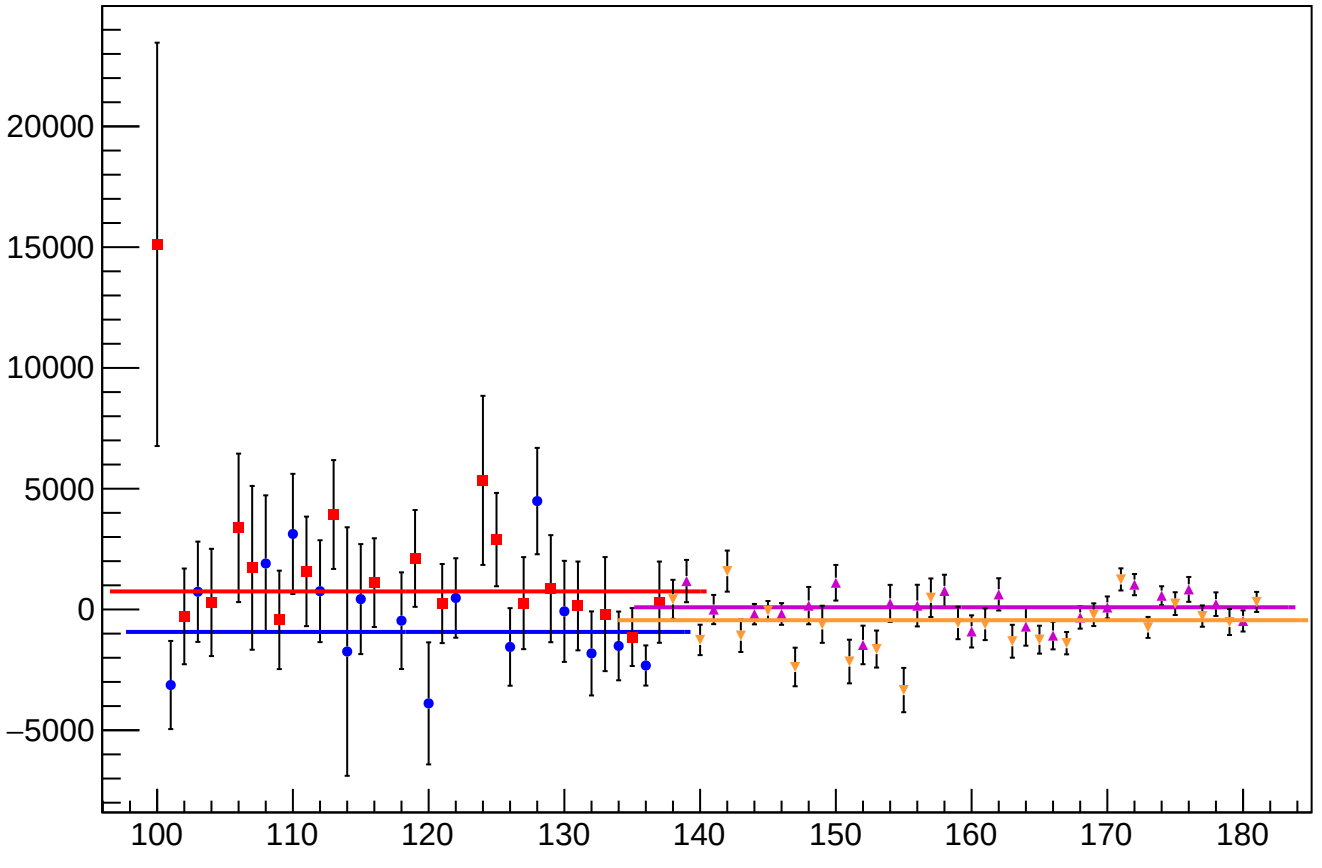
Left: 58.366+/-0.007 $\chi^2$/NDF: 1492710.4/43

Right: 88.360+/-0.017 $\chi^2$/NDF: 2199082.5/34

In: 62.622+/-0.009 $\chi^2$/NDF:2960156.2/36

Out: 62.736+/-0.009 $\chi^2$/NDF:3341923.0/41

All: 62.680+/-0.007 $\chi^2$/NDF: 6302156.6/78




Right In: -929.821+/-440.893 $\chi^2$/NDF: 18.5/15

Left Out: -444.688+/-118.795 $\chi^2$/NDF:61.5/22

Right Out: 747.199+/-467.902 $\chi^2$/NDF: 13.0/18

Left In: 91.536+/-120.827 $\chi^2$/NDF:28.0/20

Left: -181.124+/-84.710 $\chi^2$/NDF: 99.6/43

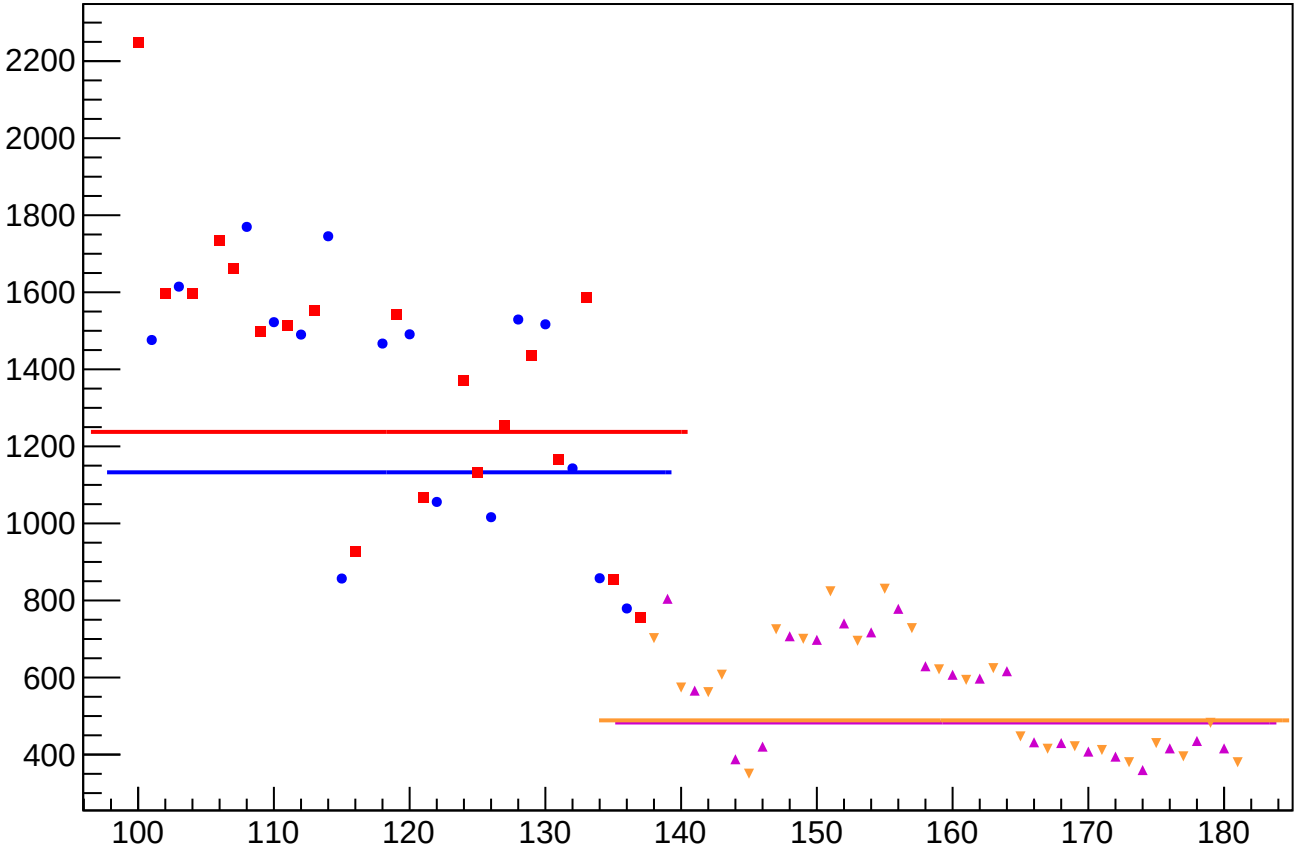
Right: -141.108+/-320.882 $\chi^2$/NDF: 38.3/34

In: 20.187+/-116.530 $\chi^2$/NDF:51.5/36

Out: -372.512+/-115.142 $\chi^2$/NDF:80.6/41

All: -178.517+/-81.904 $\chi^2$/NDF: 137.9/78

asym_sam_3726_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1132.688+/-0.312 $\chi^2$/NDF: 1124151.1/15

Left Out: 488.792+/-0.084 $\chi^2$/NDF:2453438.6/22

Right Out: 1237.591+/-0.331 $\chi^2$/NDF: 895314.3/18

Left In: 483.236+/-0.085 $\chi^2$/NDF:2168965.5/20

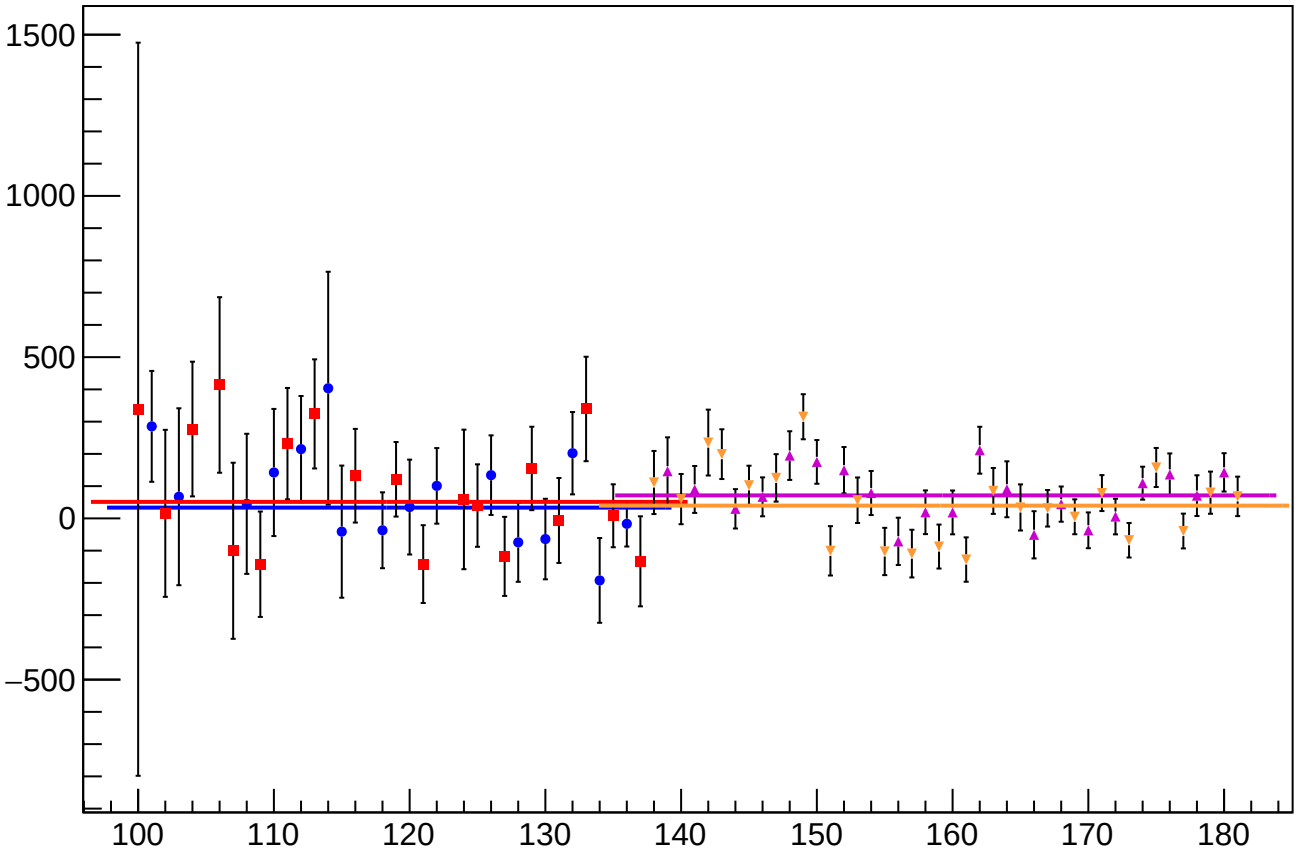
Left: 486.061+/-0.060 $\chi^2$/NDF: 4624554.1/43

Right: 1182.025+/-0.227 $\chi^2$/NDF: 2072715.6/34

In: 528.605+/-0.082 $\chi^2$/NDF:7329635.3/36

Out: 534.136+/-0.081 $\chi^2$/NDF:8160704.8/41

All: 531.404+/-0.058 $\chi^2$/NDF: 15492619.8/78




Right In: 33.422+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 39.541+/-13.875 $\chi^2$/NDF:59.0/22

Right Out: 51.188+/-34.853 $\chi^2$/NDF: 19.5/18

Left In: 71.285+/-14.296 $\chi^2$/NDF:27.2/20

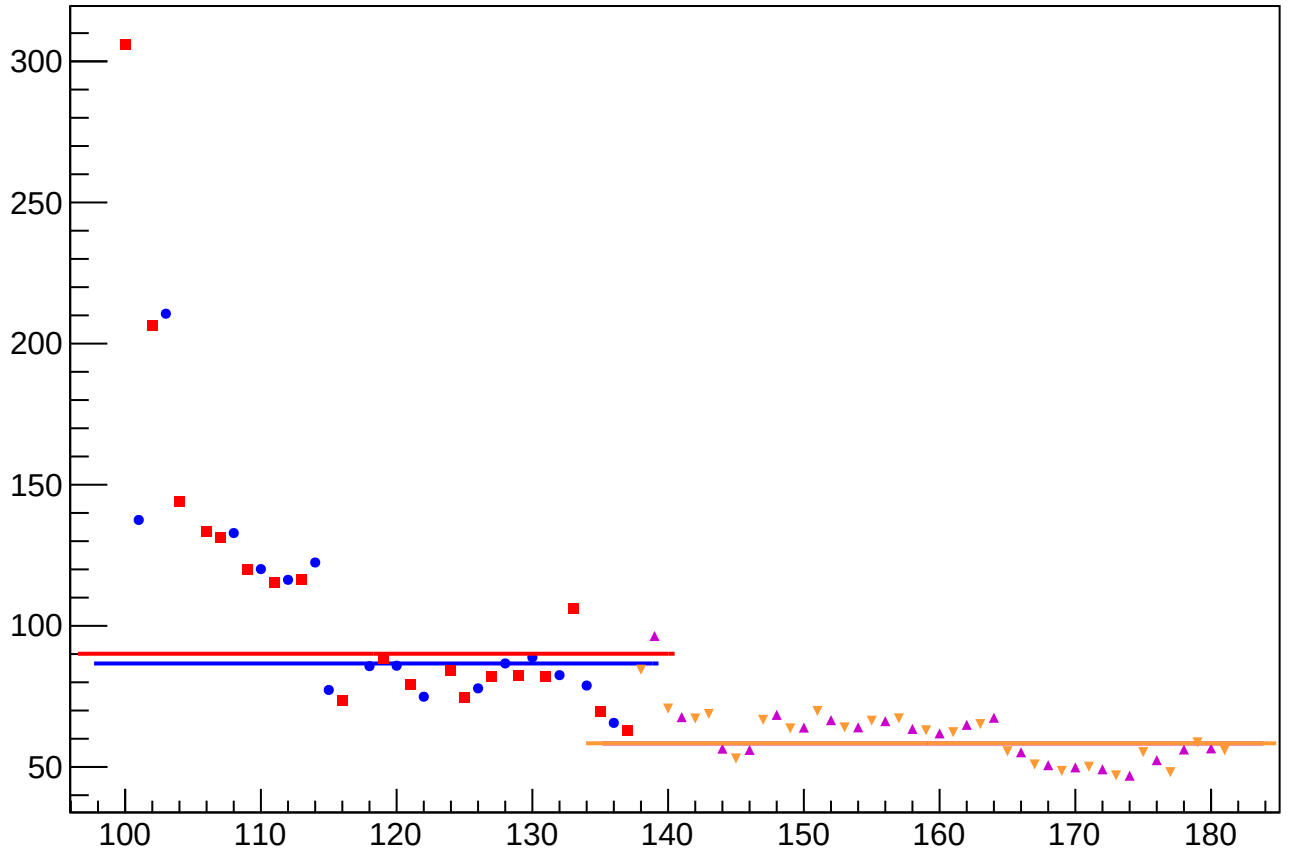
Left: 54.938+/-9.957 $\chi^2$/NDF: 88.8/43

Right: 42.054+/-24.294 $\chi^2$/NDF: 32.5/34

In: 65.562+/-13.172 $\chi^2$/NDF:41.1/36

Out: 41.134+/-12.891 $\chi^2$/NDF:78.7/41

All: 53.085+/-9.213 $\chi^2$/NDF: 121.5/78




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038816.2/15

Left Out: 58.391+/-0.010 $\chi^2$/NDF:758012.8/22

Right Out: 90.116+/-0.025 $\chi^2$/NDF: 1145283.2/18

Left In: 58.340+/-0.010 $\chi^2$/NDF:734684.8/20

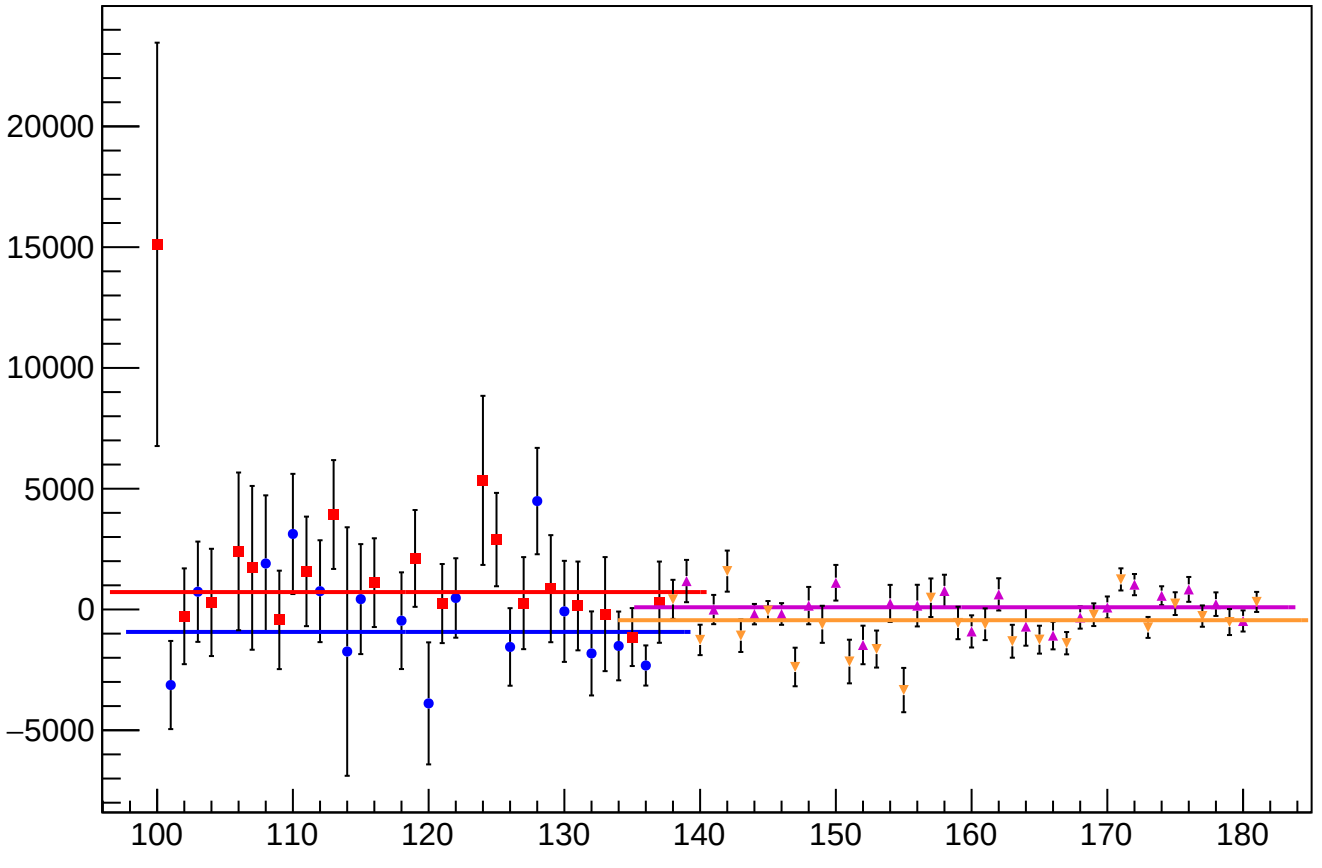
Left: 58.366+/-0.007 $\chi^2$/NDF: 1492710.3/43

Right: 88.342+/-0.017 $\chi^2$/NDF: 2194173.3/34

In: 62.622+/-0.009 $\chi^2$/NDF:2960158.5/36

Out: 62.731+/-0.009 $\chi^2$/NDF:3333731.9/41

All: 62.677+/-0.007 $\chi^2$/NDF: 6293960.4/78




Right In: -929.788+/-440.894 $\chi^2$/NDF: 18.5/15

Left Out: -444.685+/-118.795 $\chi^2$/NDF:61.5/22

Right Out: 720.600+/-468.540 $\chi^2$/NDF: 12.5/18

Left In: 91.534+/-120.827 $\chi^2$/NDF:28.0/20

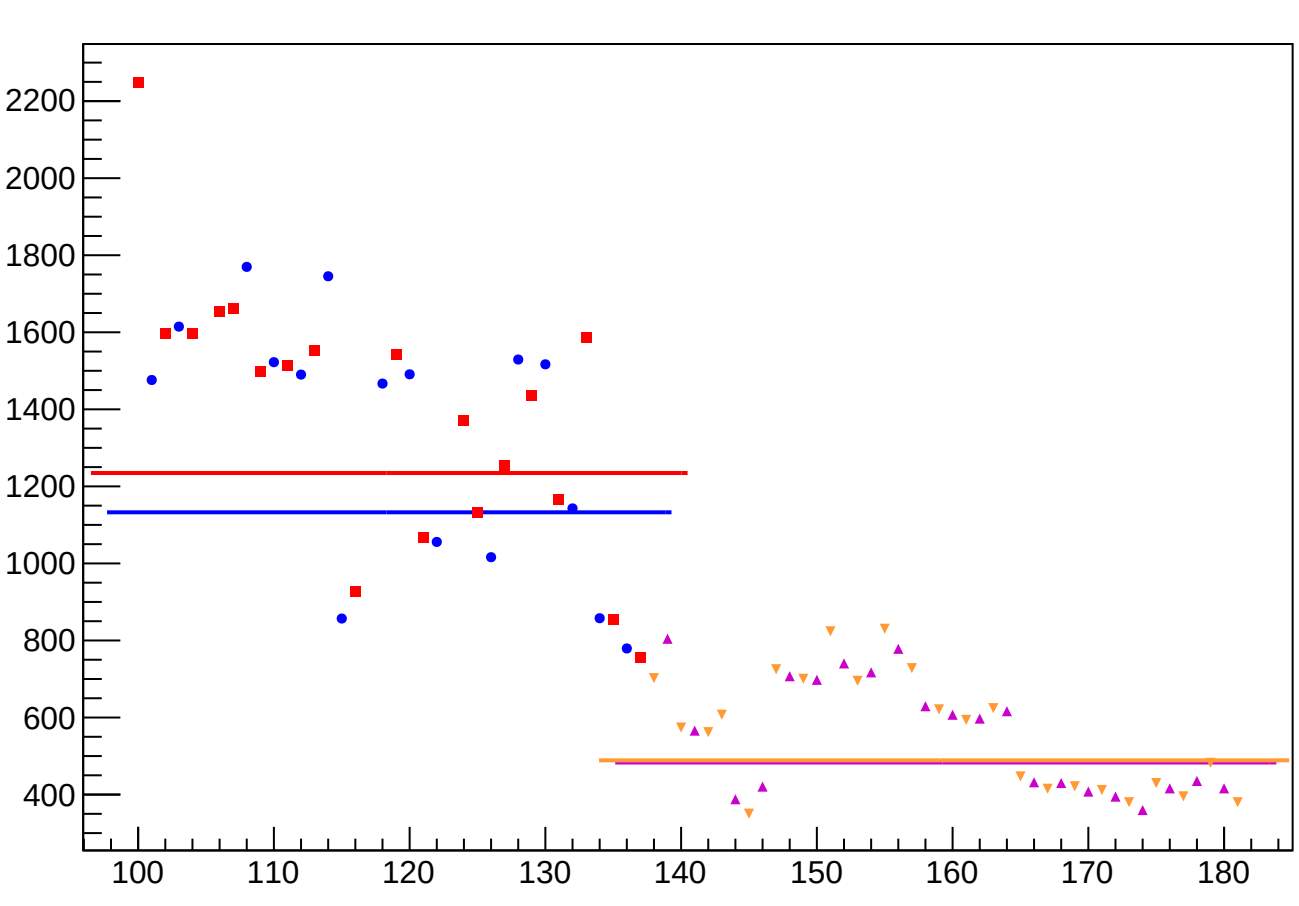
Left: -181.124+/-84.710 $\chi^2$/NDF: 99.6/43

Right: -154.717+/-321.088 $\chi^2$/NDF: 37.6/34

In: 20.187+/-116.530 $\chi^2$/NDF:51.5/36

Out: -374.301+/-115.151 $\chi^2$/NDF:79.9/41

All: -179.406+/-81.907 $\chi^2$/NDF: 137.2/78




Right In: 1132.689+/-0.312 $\chi^2$/NDF: 1124187.2/15

Left Out: 488.792+/-0.084 $\chi^2$/NDF:2453438.9/22

Right Out: 1234.709+/-0.331 $\chi^2$/NDF: 876272.4/18

Left In: 483.236+/-0.085 $\chi^2$/NDF:2168964.7/20

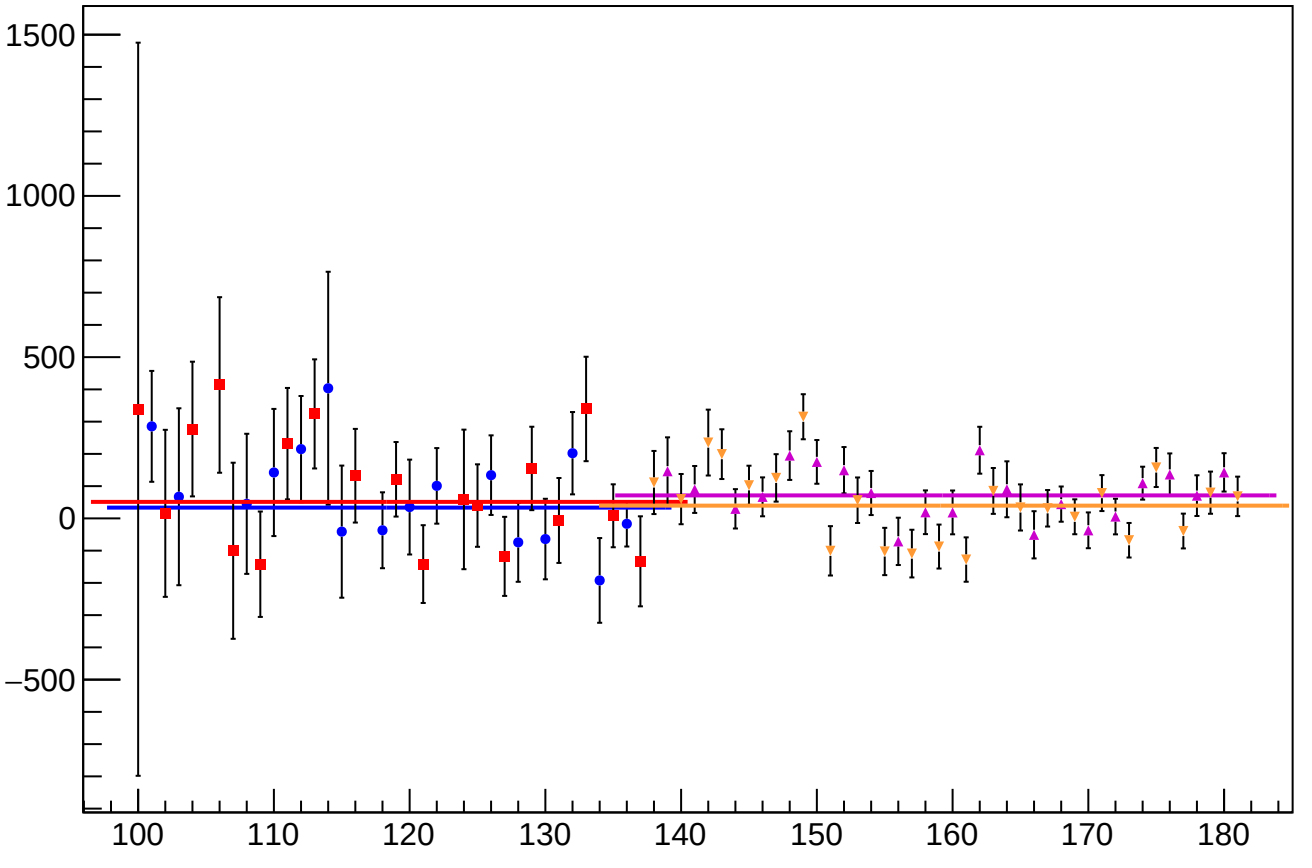
Left: 486.061+/-0.060 $\chi^2$/NDF: 4624553.4/43

Right: 1180.601+/-0.227 $\chi^2$/NDF: 2050749.6/34

In: 528.605+/-0.082 $\chi^2$/NDF:7329663.8/36

Out: 533.846+/-0.081 $\chi^2$/NDF:8092490.5/41

All: 531.257+/-0.058 $\chi^2$/NDF: 15424200.8/78




Right In: 33.422+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 39.541+/-13.875 $\chi^2$/NDF:59.0/22

Right Out: 51.188+/-34.853 $\chi^2$/NDF: 19.5/18

Left In: 71.285+/-14.296 $\chi^2$/NDF:27.2/20

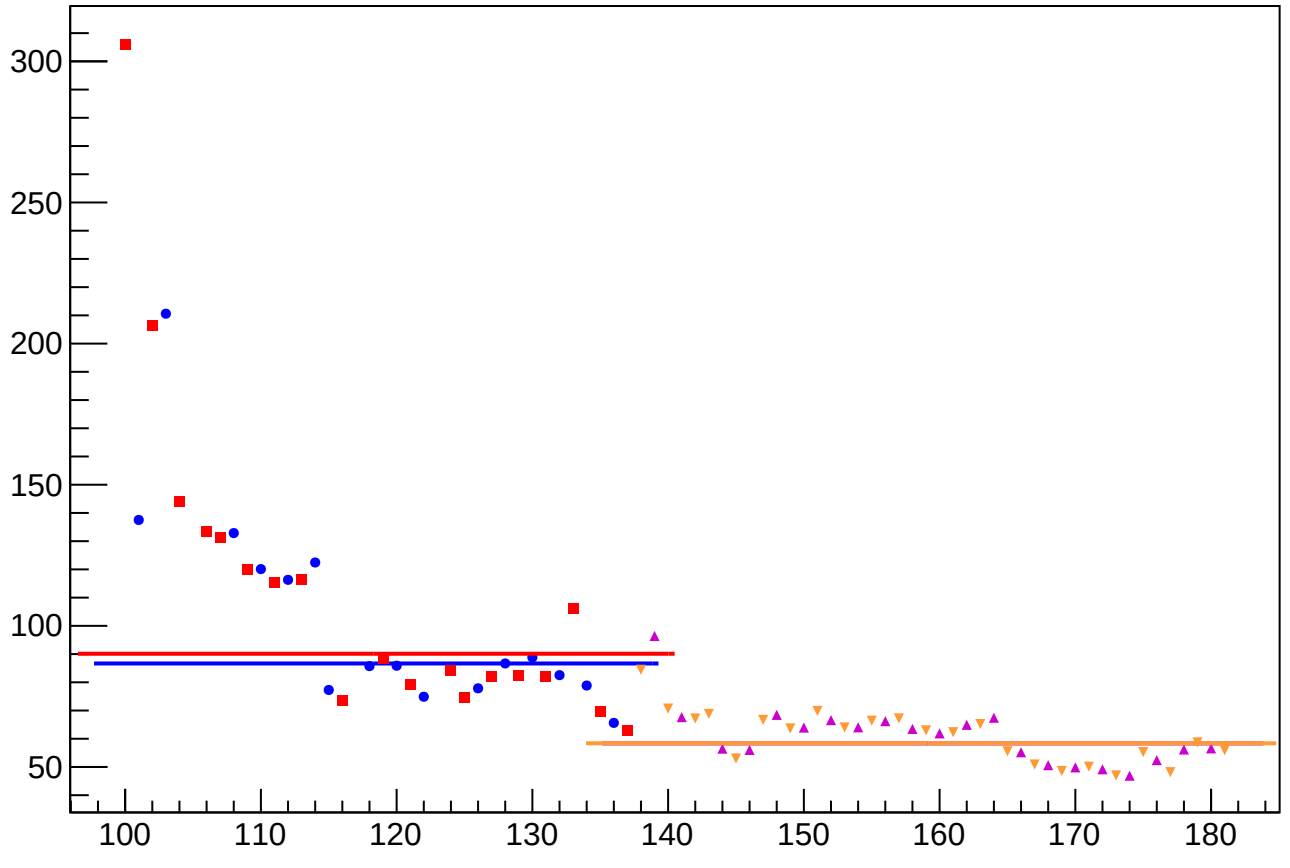
Left: 54.938+/-9.957 $\chi^2$/NDF: 88.8/43

Right: 42.054+/-24.294 $\chi^2$/NDF: 32.5/34

In: 65.562+/-13.172 $\chi^2$/NDF:41.1/36

Out: 41.134+/-12.891 $\chi^2$/NDF:78.7/41

All: 53.085+/-9.213 $\chi^2$/NDF: 121.5/78




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038816.2/15

Left Out: 58.391+/-0.010 $\chi^2$/NDF:758012.8/22

Right Out: 90.116+/-0.025 $\chi^2$/NDF: 1145283.2/18

Left In: 58.340+/-0.010 $\chi^2$/NDF:734684.8/20

Left: 58.366+/-0.007 $\chi^2$/NDF: 1492710.3/43

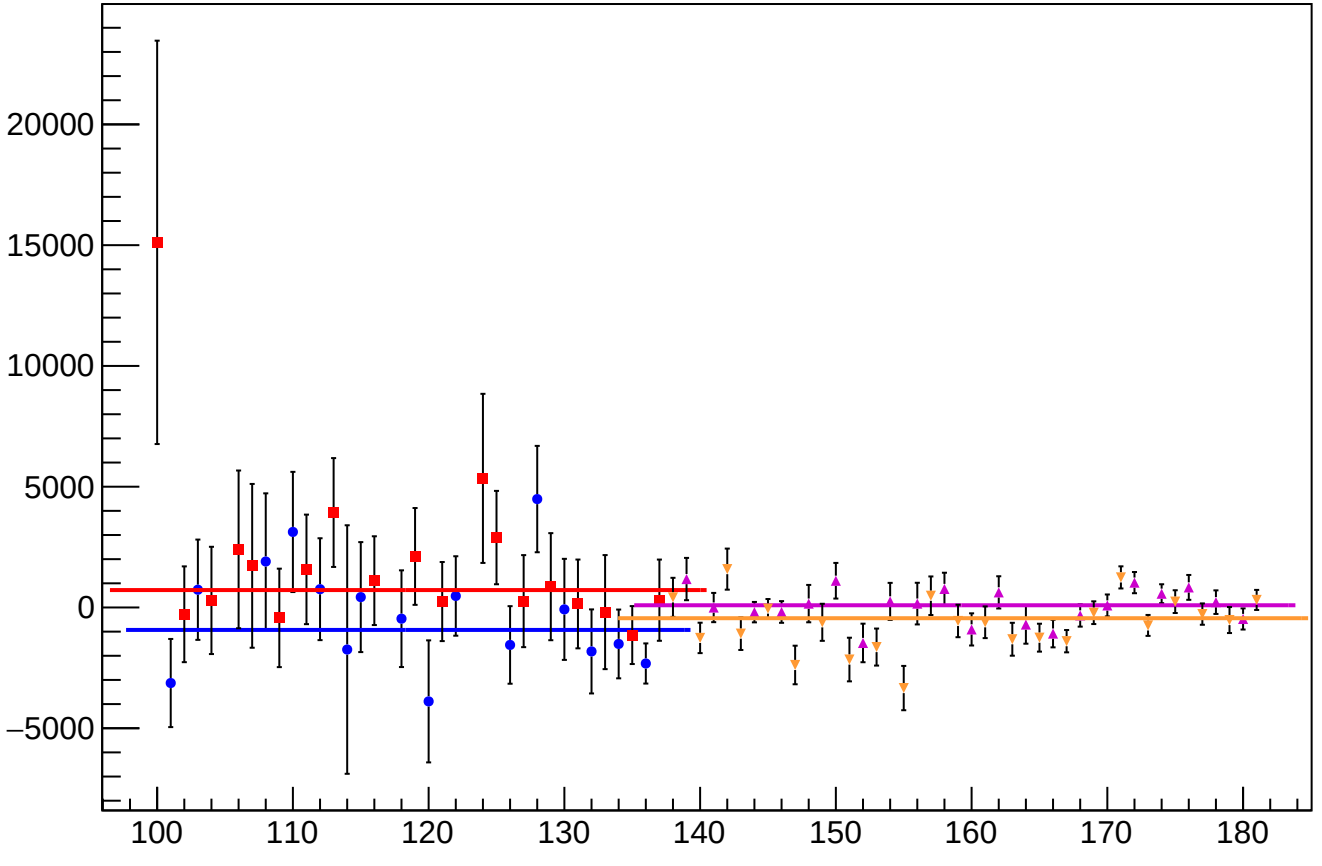
Right: 88.342+/-0.017 $\chi^2$/NDF: 2194173.3/34

In: 62.622+/-0.009 $\chi^2$/NDF:2960158.5/36

Out: 62.731+/-0.009 $\chi^2$/NDF:3333731.9/41

All: 62.677+/-0.007 $\chi^2$/NDF: 6293960.4/78

asym_sam_3726_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -929.788+/-440.894 $\chi^2$/NDF: 18.5/15

Left Out: -444.685+/-118.795 $\chi^2$/NDF:61.5/22

Right Out: 720.600+/-468.540 $\chi^2$/NDF: 12.5/18

Left In: 91.534+/-120.827 $\chi^2$/NDF:28.0/20

Left: -181.124+/-84.710 $\chi^2$/NDF: 99.6/43

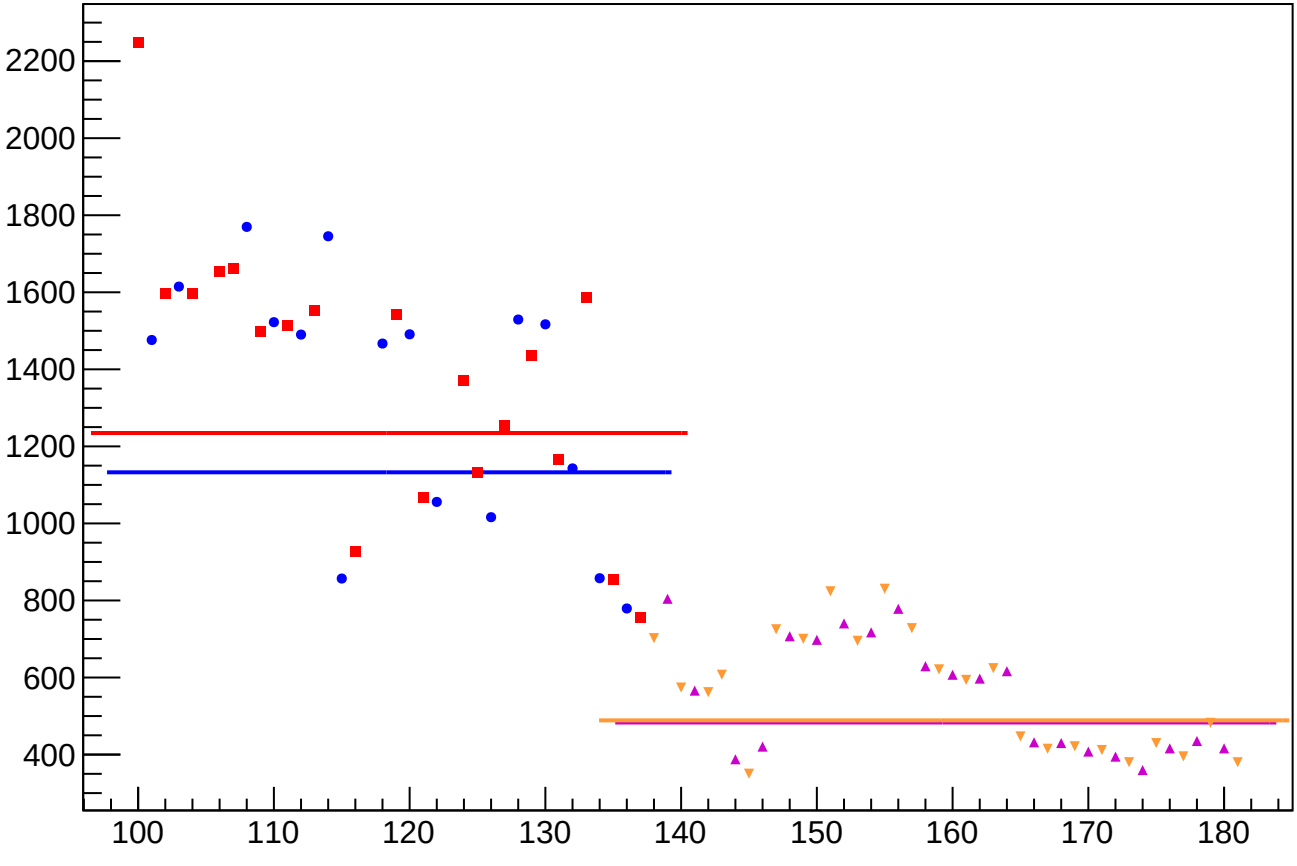
Right: -154.717+/-321.088 $\chi^2$/NDF: 37.6/34

In: 20.187+/-116.530 $\chi^2$/NDF:51.5/36

Out: -374.301+/-115.151 $\chi^2$/NDF:79.9/41

All: -179.406+/-81.907 $\chi^2$/NDF: 137.2/78

asym_sam_3726_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1132.689+/-0.312 $\chi^2$/NDF: 1124187.2/15

Left Out: 488.792+/-0.084 $\chi^2$/NDF:2453438.9/22

Right Out: 1234.709+/-0.331 $\chi^2$/NDF: 876272.4/18

Left In: 483.236+/-0.085 $\chi^2$/NDF:2168964.7/20

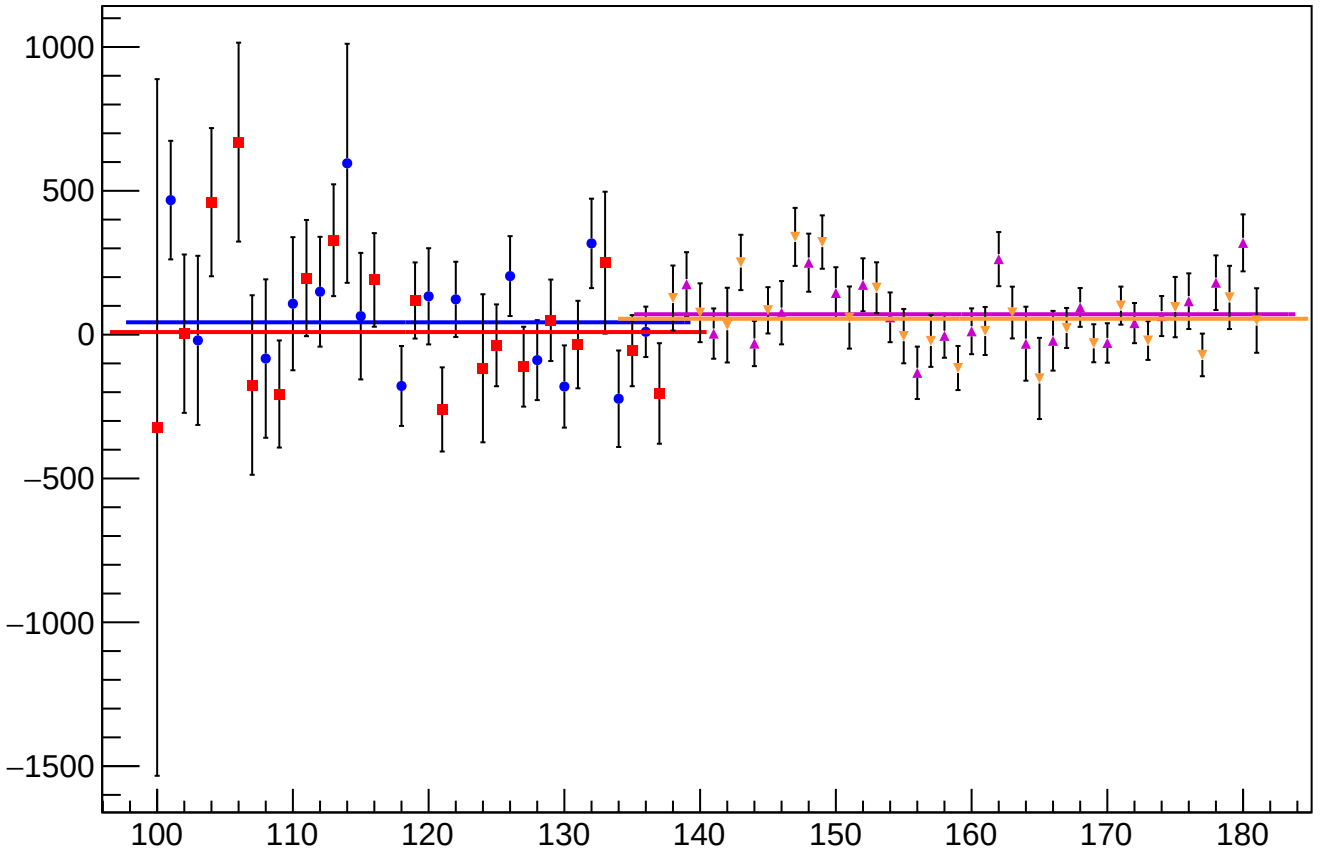
Left: 486.061+/-0.060 $\chi^2$/NDF: 4624553.4/43

Right: 1180.601+/-0.227 $\chi^2$/NDF: 2050749.6/34

In: 528.605+/-0.082 $\chi^2$/NDF:7329663.8/36

Out: 533.846+/-0.081 $\chi^2$/NDF:8092490.5/41

All: 531.257+/-0.058 $\chi^2$/NDF: 15424200.8/78




Right In: 42.914+/-39.948 $\chi^2$/NDF: 20.3/15

Left Out: 55.195+/-18.360 $\chi^2$/NDF:38.2/22

Right Out: 8.989+/-41.060 $\chi^2$/NDF: 21.3/18

Left In: 70.938+/-18.862 $\chi^2$/NDF:30.6/20

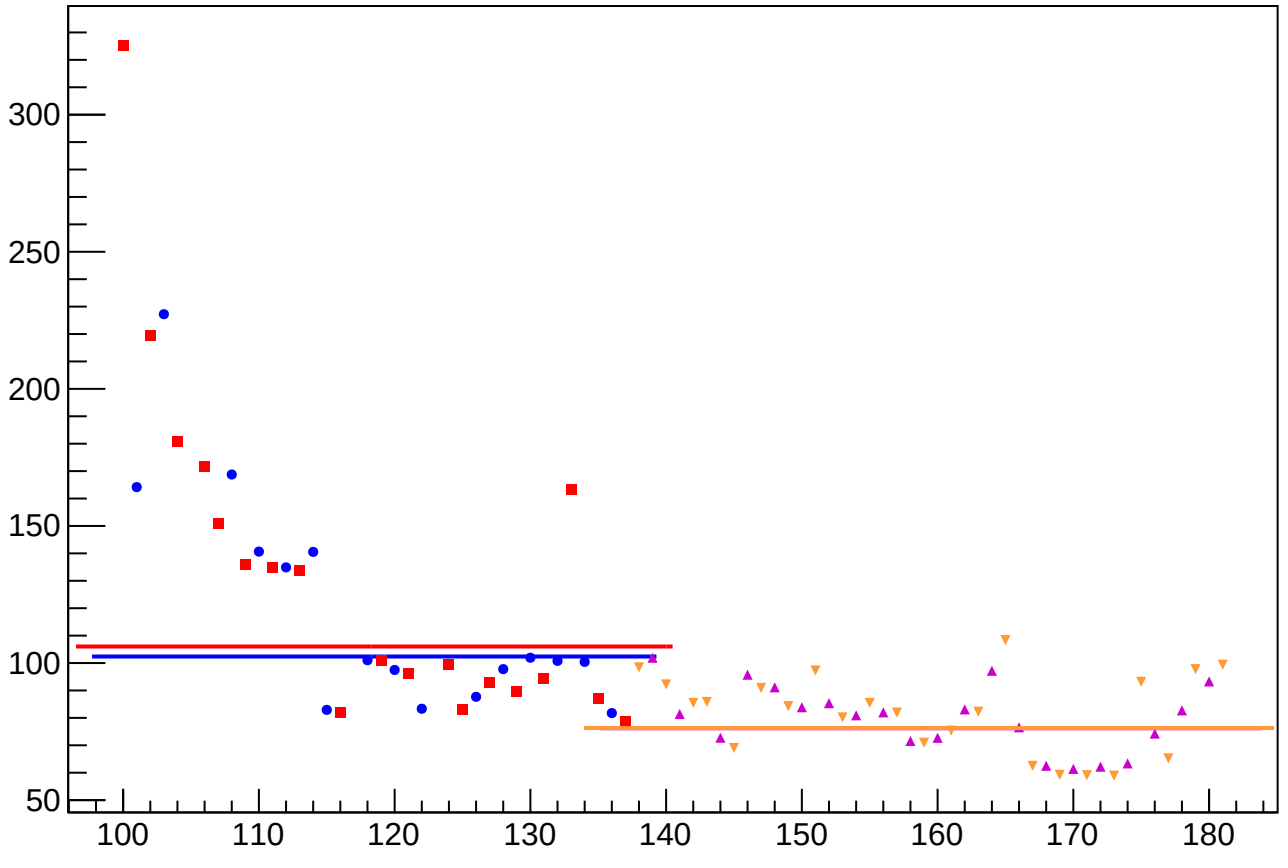
Left: 62.854+/-13.156 $\chi^2$/NDF: 69.2/43

Right: 26.417+/-28.632 $\chi^2$/NDF: 42.0/34

In: 65.829+/-17.056 $\chi^2$/NDF:51.3/36

Out: 47.496+/-16.761 $\chi^2$/NDF:60.6/41

All: 56.502+/-11.955 $\chi^2$/NDF: 112.5/78




Right In: 102.378+/-0.028 $\chi^2$/NDF: 982311.5/15

Left Out: 76.287+/-0.013 $\chi^2$/NDF:1194092.4/22

Right Out: 106.032+/-0.029 $\chi^2$/NDF: 1191294.0/18

Left In: 76.209+/-0.013 $\chi^2$/NDF:742050.2/20

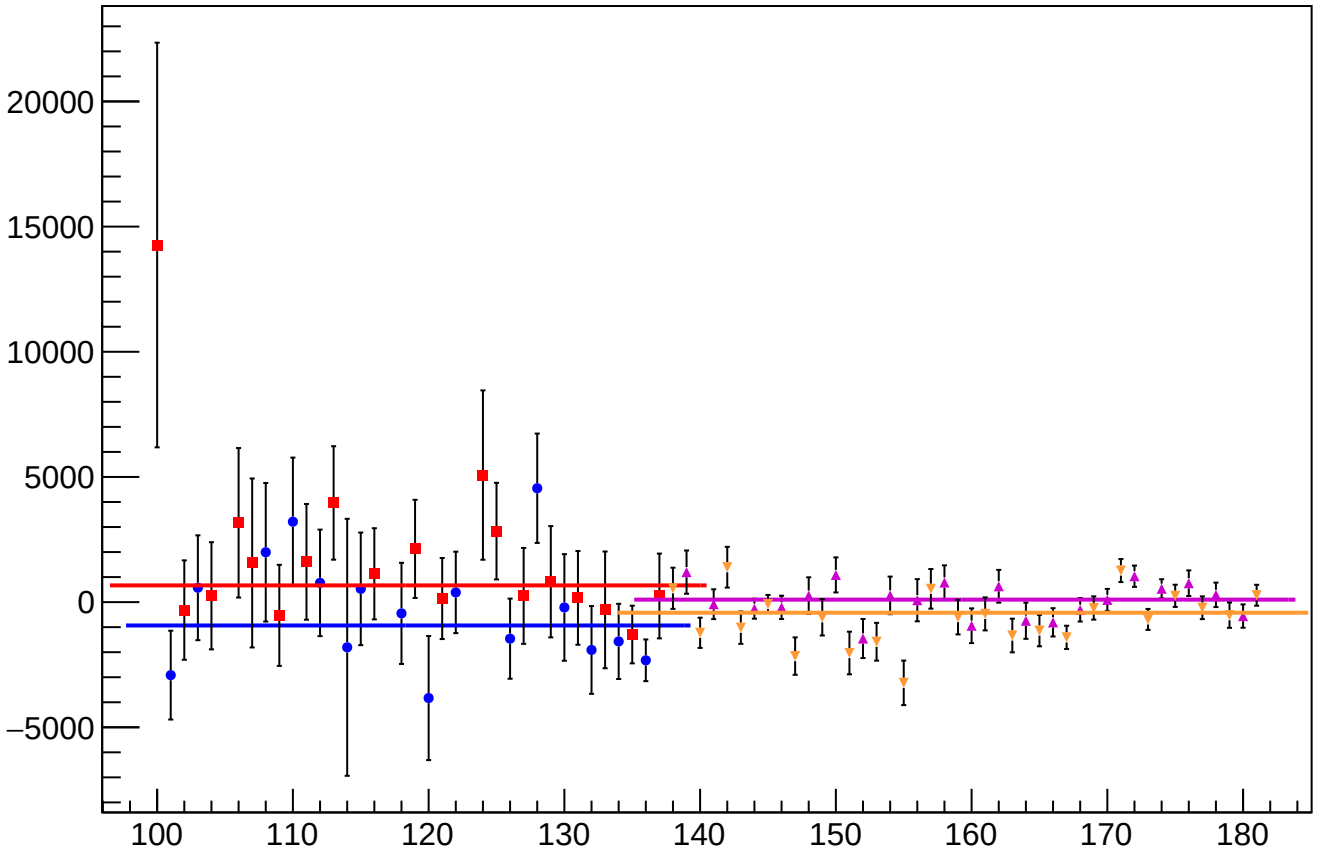
Left: 76.249+/-0.009 $\chi^2$/NDF: 1936160.5/43

Right: 104.155+/-0.020 $\chi^2$/NDF: 2181742.7/34

In: 80.980+/-0.012 $\chi^2$/NDF:2426192.6/36

Out: 81.244+/-0.012 $\chi^2$/NDF:3260097.4/41

All: 81.114+/-0.008 $\chi^2$/NDF: 5686534.3/78




Right In: -932.381+/-442.724 $\chi^2$/NDF: 18.5/15

Left Out: -423.172+/-116.233 $\chi^2$/NDF:59.7/22

Right Out: 668.521+/-463.213 $\chi^2$/NDF: 13.5/18

Left In: 99.146+/-119.441 $\chi^2$/NDF:27.6/20

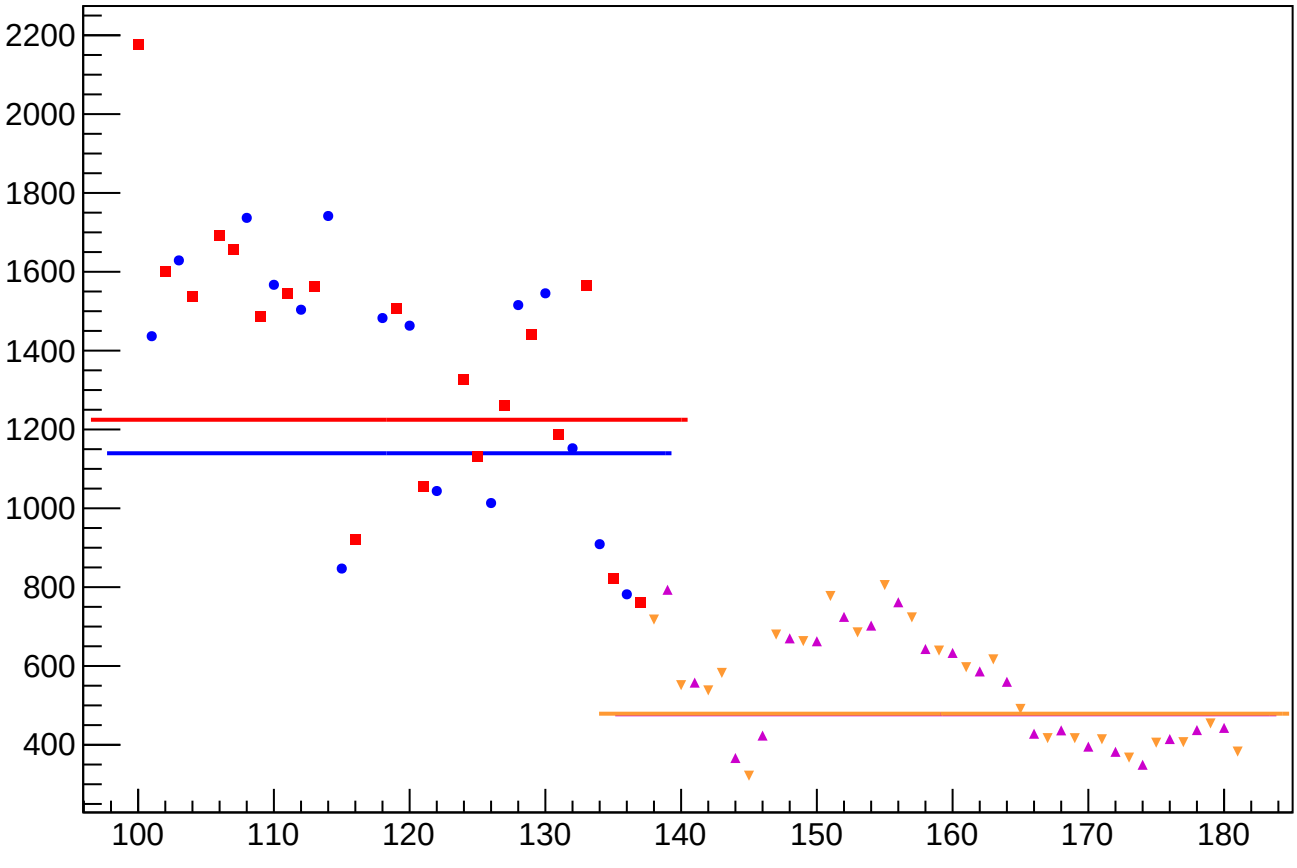
Left: -169.120+/-83.300 $\chi^2$/NDF: 97.1/43

Right: -168.117+/-320.052 $\chi^2$/NDF: 38.2/34

In: 29.161+/-115.318 $\chi^2$/NDF:51.1/36

Out: -358.505+/-112.738 $\chi^2$/NDF:78.4/41

All: -169.057+/-80.615 $\chi^2$/NDF: 135.3/78




Right In: 1139.658+/-0.313 $\chi^2$/NDF: 1093410.3/15

Left Out: 478.978+/-0.082 $\chi^2$/NDF:2495803.7/22

Right Out: 1224.637+/-0.328 $\chi^2$/NDF: 922388.4/18

Left In: 477.437+/-0.084 $\chi^2$/NDF:2150463.0/20

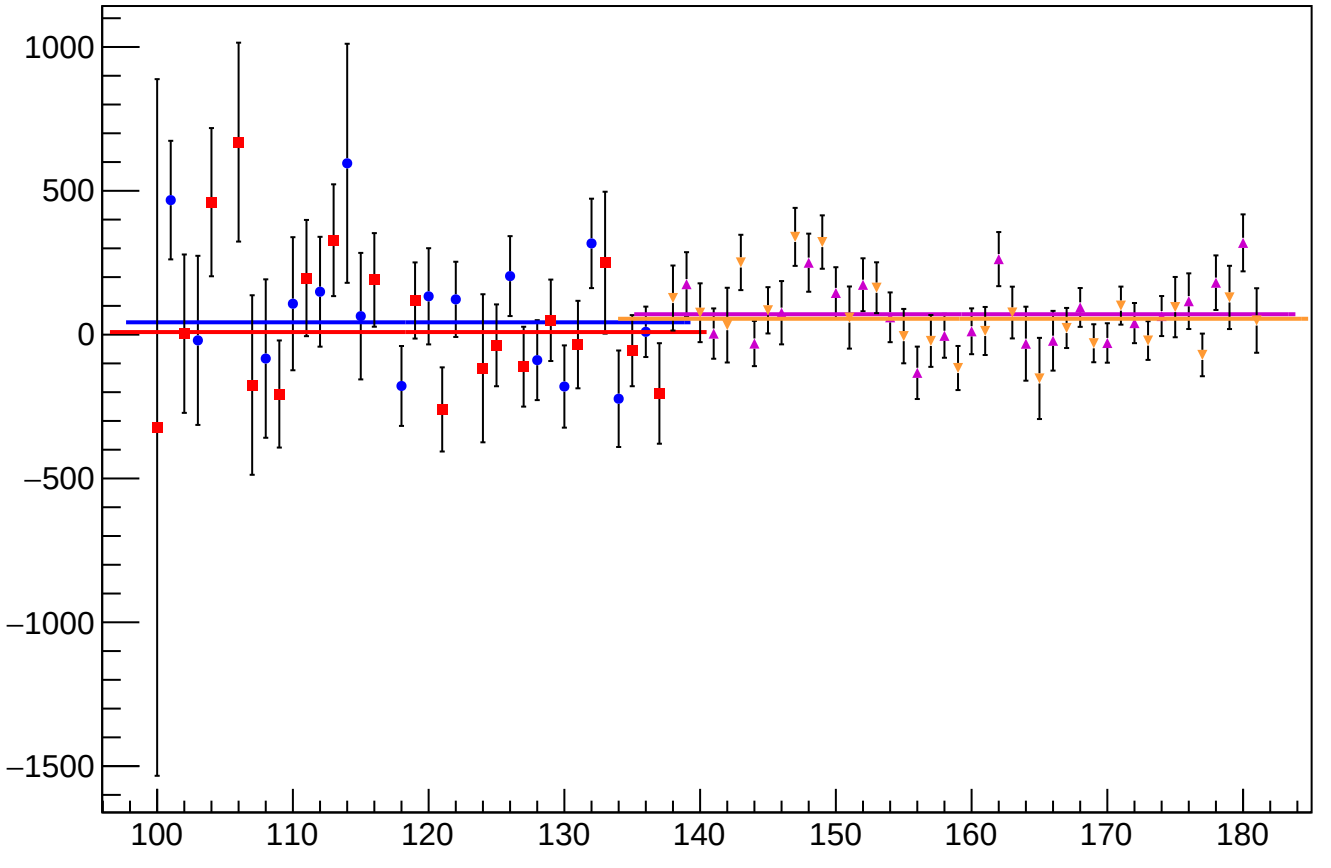
Left: 478.228+/-0.059 $\chi^2$/NDF: 4646437.6/43

Right: 1180.226+/-0.226 $\chi^2$/NDF: 2050976.5/34

In: 522.366+/-0.082 $\chi^2$/NDF:7415022.7/36

Out: 523.147+/-0.080 $\chi^2$/NDF:8293823.0/41

All: 522.766+/-0.057 $\chi^2$/NDF: 15708892.6/78




Right In: 42.914+/-39.948 $\chi^2$/NDF: 20.3/15

Left Out: 55.194+/-18.360 $\chi^2$/NDF:38.2/22

Right Out: 8.986+/-41.060 $\chi^2$/NDF: 21.3/18

Left In: 70.937+/-18.862 $\chi^2$/NDF:30.6/20

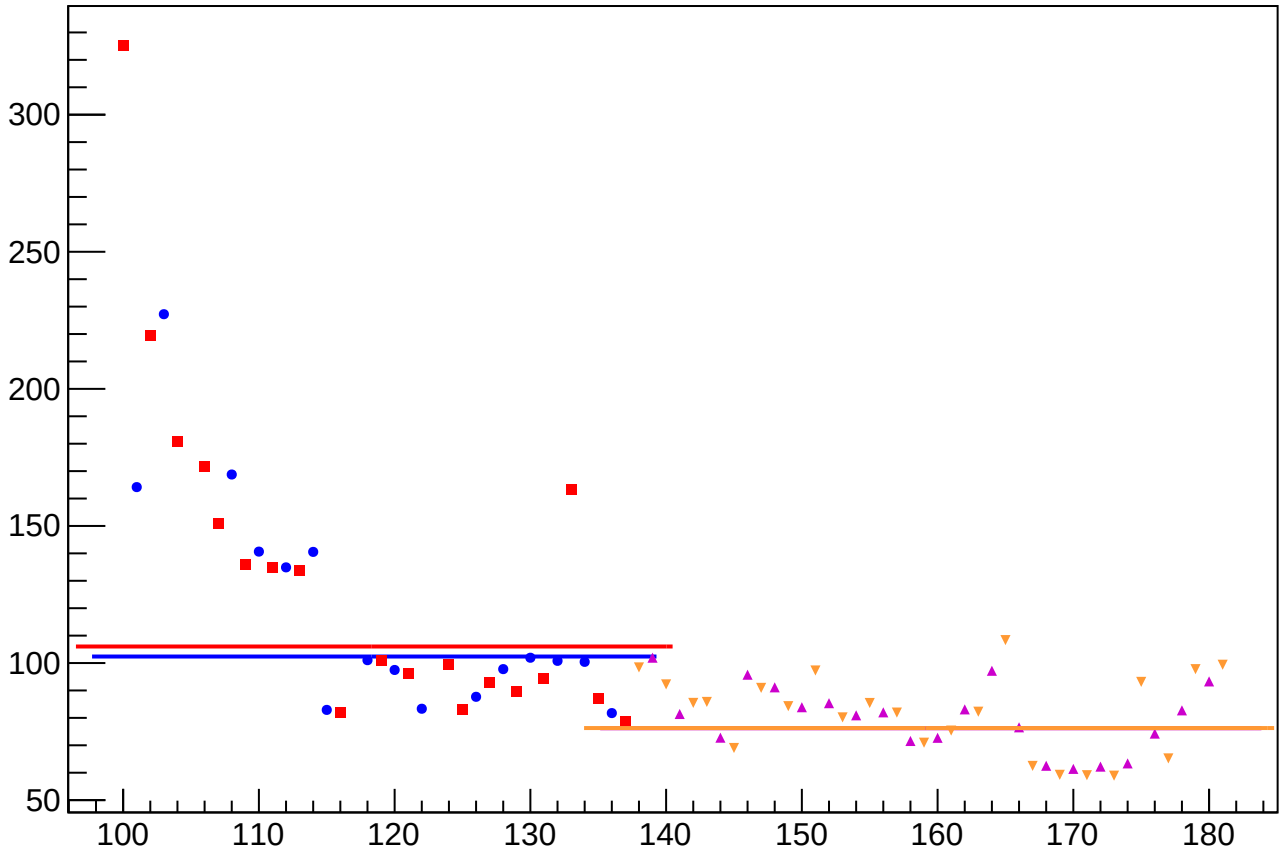
Left: 62.853+/-13.156 $\chi^2$/NDF: 69.2/43

Right: 26.416+/-28.632 $\chi^2$/NDF: 42.0/34

In: 65.828+/-17.056 $\chi^2$/NDF:51.3/36

Out: 47.494+/-16.761 $\chi^2$/NDF:60.6/41

All: 56.501+/-11.955 $\chi^2$/NDF: 112.5/78




Right In: 102.378+/-0.028 $\chi^2$/NDF: 982307.0/15

Left Out: 76.288+/-0.013 $\chi^2$/NDF:1194093.7/22

Right Out: 106.032+/-0.029 $\chi^2$/NDF: 1191296.9/18

Left In: 76.209+/-0.013 $\chi^2$/NDF:742043.7/20

Left: 76.249+/-0.009 $\chi^2$/NDF: 1936155.2/43

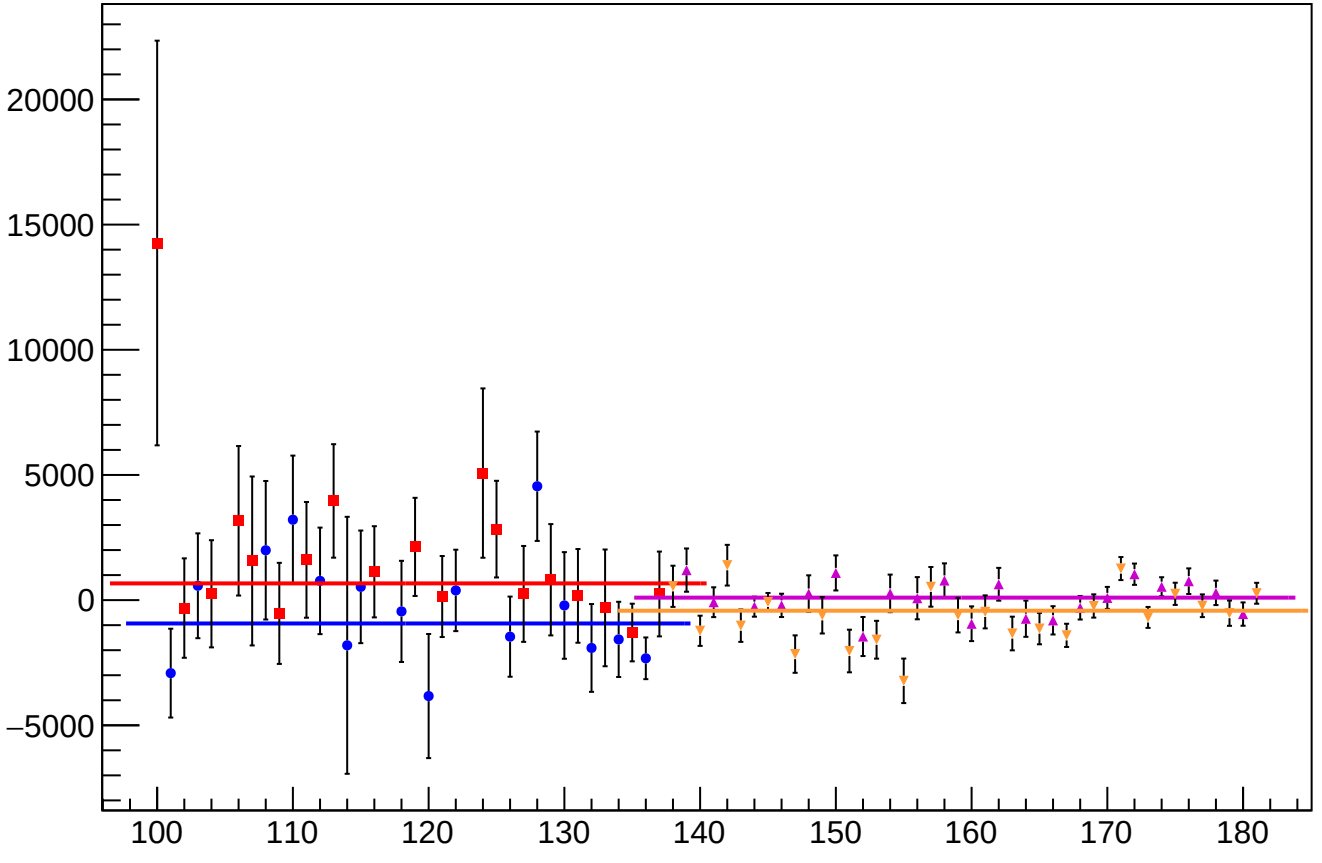
Right: 104.155+/-0.020 $\chi^2$/NDF: 2181741.7/34

In: 80.980+/-0.012 $\chi^2$/NDF:2426154.9/36

Out: 81.244+/-0.012 $\chi^2$/NDF:3260081.2/41

All: 81.114+/-0.008 $\chi^2$/NDF: 5686480.4/78

asym_sam_3726_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -932.377+/-442.724 $\chi^2$/NDF: 18.5/15

Left Out: -423.172+/-116.233 $\chi^2$/NDF:59.7/22

Right Out: 668.522+/-463.212 $\chi^2$/NDF: 13.5/18

Left In: 99.145+/-119.441 $\chi^2$/NDF:27.6/20

Left: -169.121+/-83.300 $\chi^2$/NDF: 97.1/43

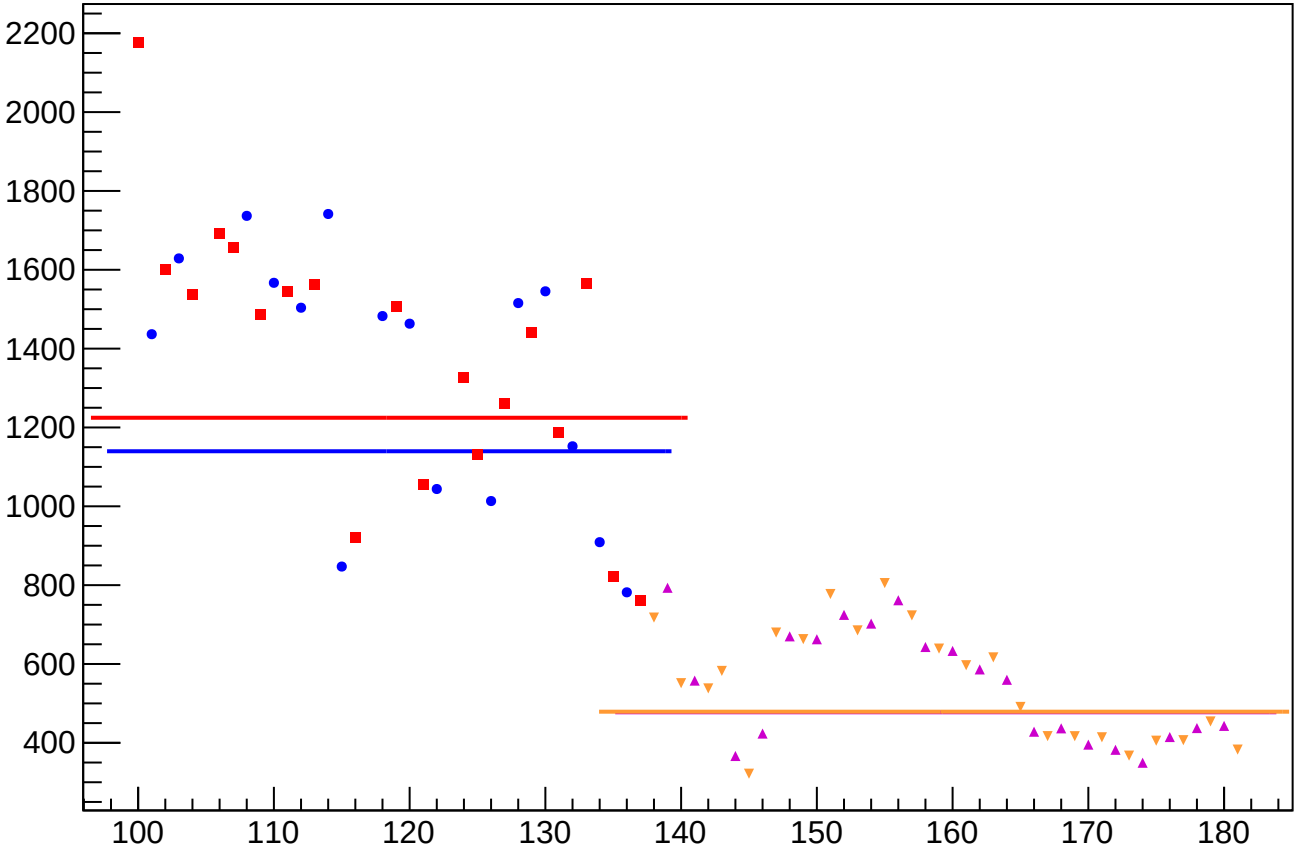
Right: -168.114+/-320.051 $\chi^2$/NDF: 38.2/34

In: 29.160+/-115.318 $\chi^2$/NDF:51.1/36

Out: -358.505+/-112.738 $\chi^2$/NDF:78.4/41

All: -169.057+/-80.615 $\chi^2$/NDF: 135.3/78

asym_sam_3726_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1139.656+/-0.313 $\chi^2$/NDF: 1093397.5/15

Left Out: 478.977+/-0.082 $\chi^2$/NDF:2495808.8/22

Right Out: 1224.635+/-0.328 $\chi^2$/NDF: 922378.0/18

Left In: 477.437+/-0.084 $\chi^2$/NDF:2150456.7/20

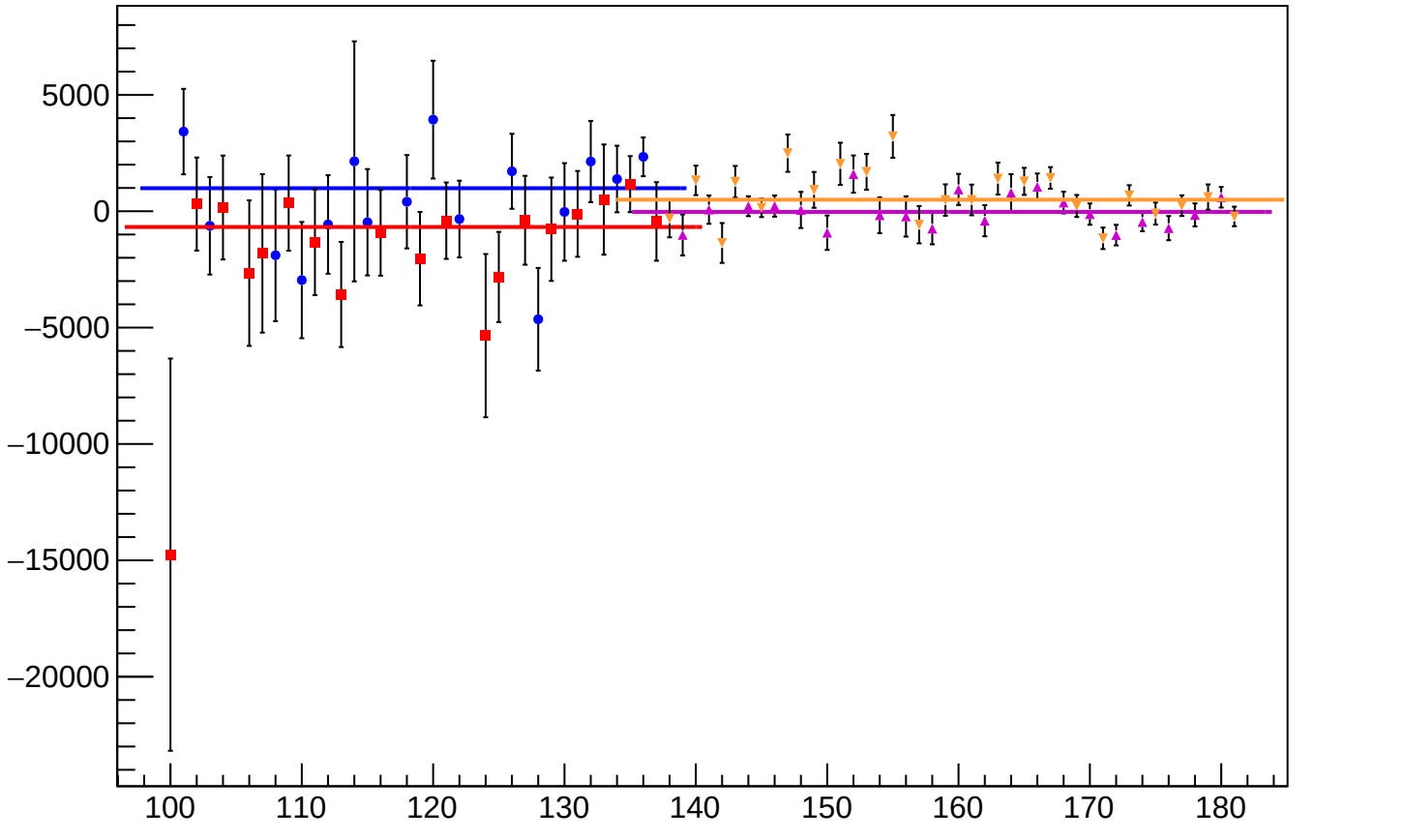
Left: 478.228+/-0.059 $\chi^2$/NDF: 4646436.3/43

Right: 1180.225+/-0.226 $\chi^2$/NDF: 2050952.9/34

In: 522.366+/-0.082 $\chi^2$/NDF:7415001.6/36

Out: 523.147+/-0.080 $\chi^2$/NDF:8293817.1/41

All: 522.765+/-0.057 $\chi^2$/NDF: 15708865.5/78




Right In: 989.322+/-442.634 $\chi^2$/NDF: 19.0/15

Left Out: 495.056+/-119.703 $\chi^2$/NDF:57.7/22

Right Out: -677.628+/-469.652 $\chi^2$/NDF: 11.9/18

Left In: -28.410+/-121.781 $\chi^2$/NDF:26.6/20

Left: 237.827+/-85.368 $\chi^2$/NDF: 93.7/43

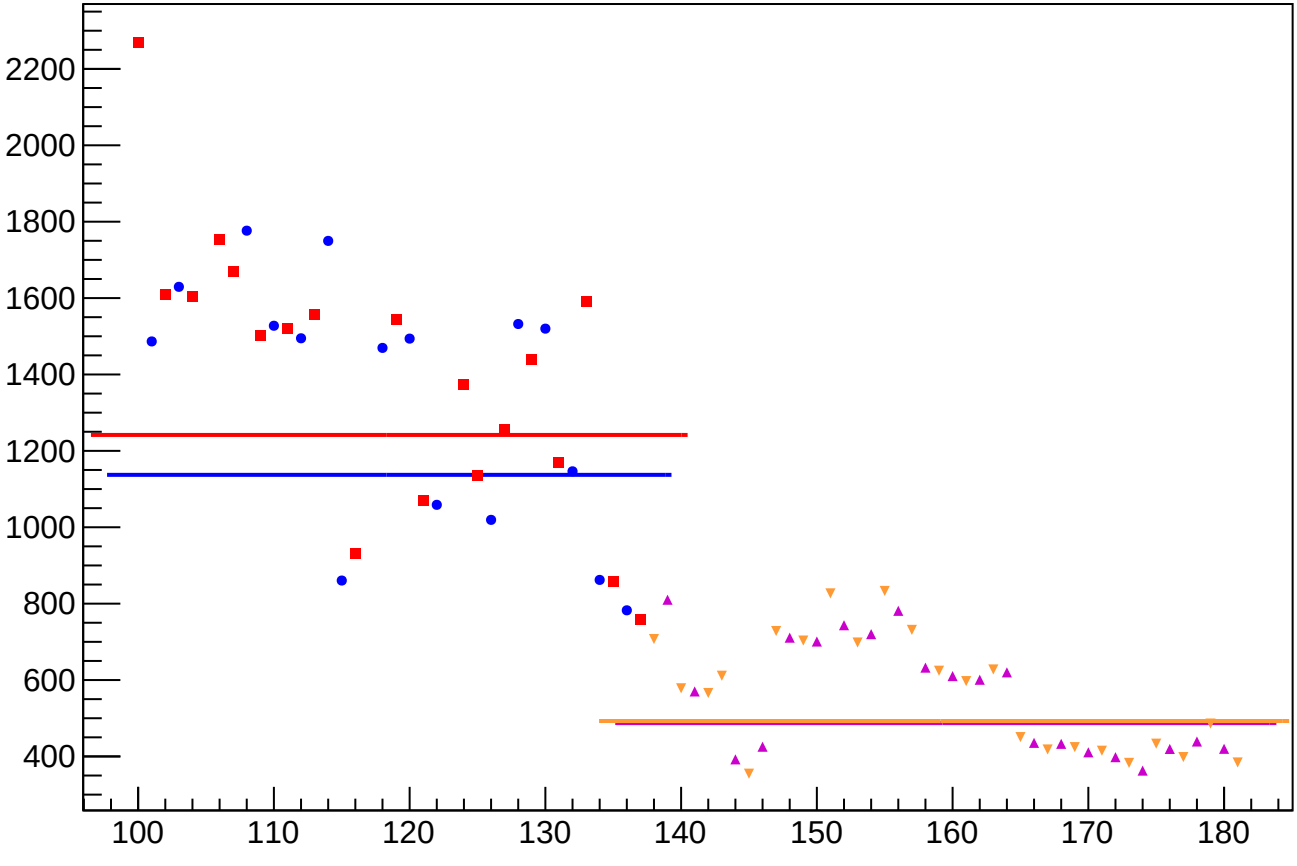
Right: 205.171+/-322.118 $\chi^2$/NDF: 37.6/34

In: 43.206+/-117.418 $\chi^2$/NDF:50.6/36

Out: 423.523+/-115.995 $\chi^2$/NDF:75.5/41

All: 235.684+/-82.519 $\chi^2$/NDF: 131.4/78

# asym_sam_3726_avg_rms vs Slug, Sign Corrected




Right In: 1137.220+/-0.313 $\chi^2$/NDF: 1123685.6/15

Left Out: 492.766+/-0.085 $\chi^2$/NDF:2420750.7/22

Right Out: 1241.709+/-0.332 $\chi^2$/NDF: 899417.9/18

Left In: 487.269+/-0.086 $\chi^2$/NDF:2141450.8/20

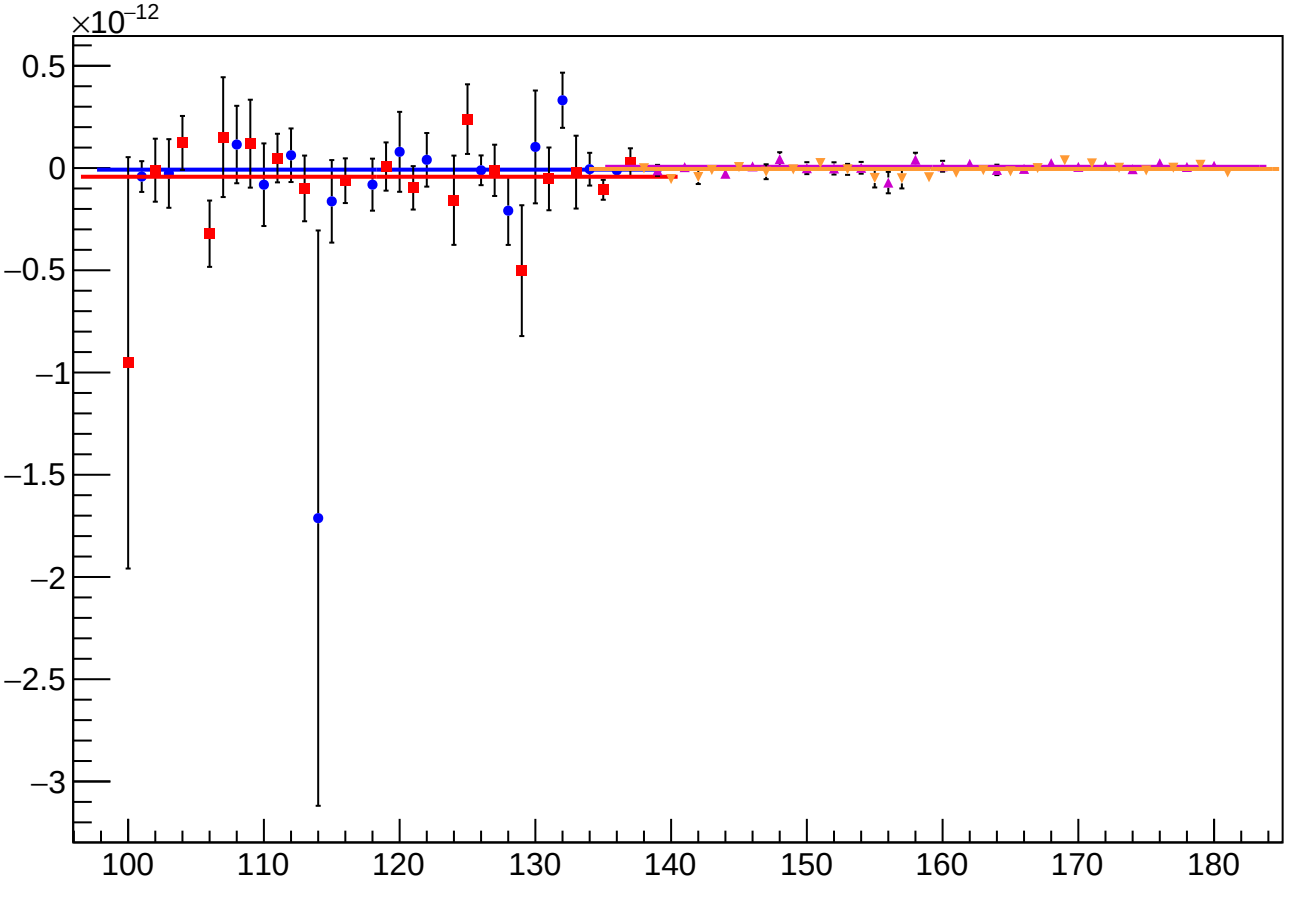
Left: 490.065+/-0.060 $\chi^2$/NDF: 4564273.7/43

Right: 1186.373+/-0.228 $\chi^2$/NDF: 2075531.5/34

In: 533.005+/-0.083 $\chi^2$/NDF:7273908.9/36

Out: 538.451+/-0.082 $\chi^2$/NDF:8095924.0/41

All: 535.761+/-0.058 $\chi^2$/NDF: 15372009.7/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.5/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 46.4/43

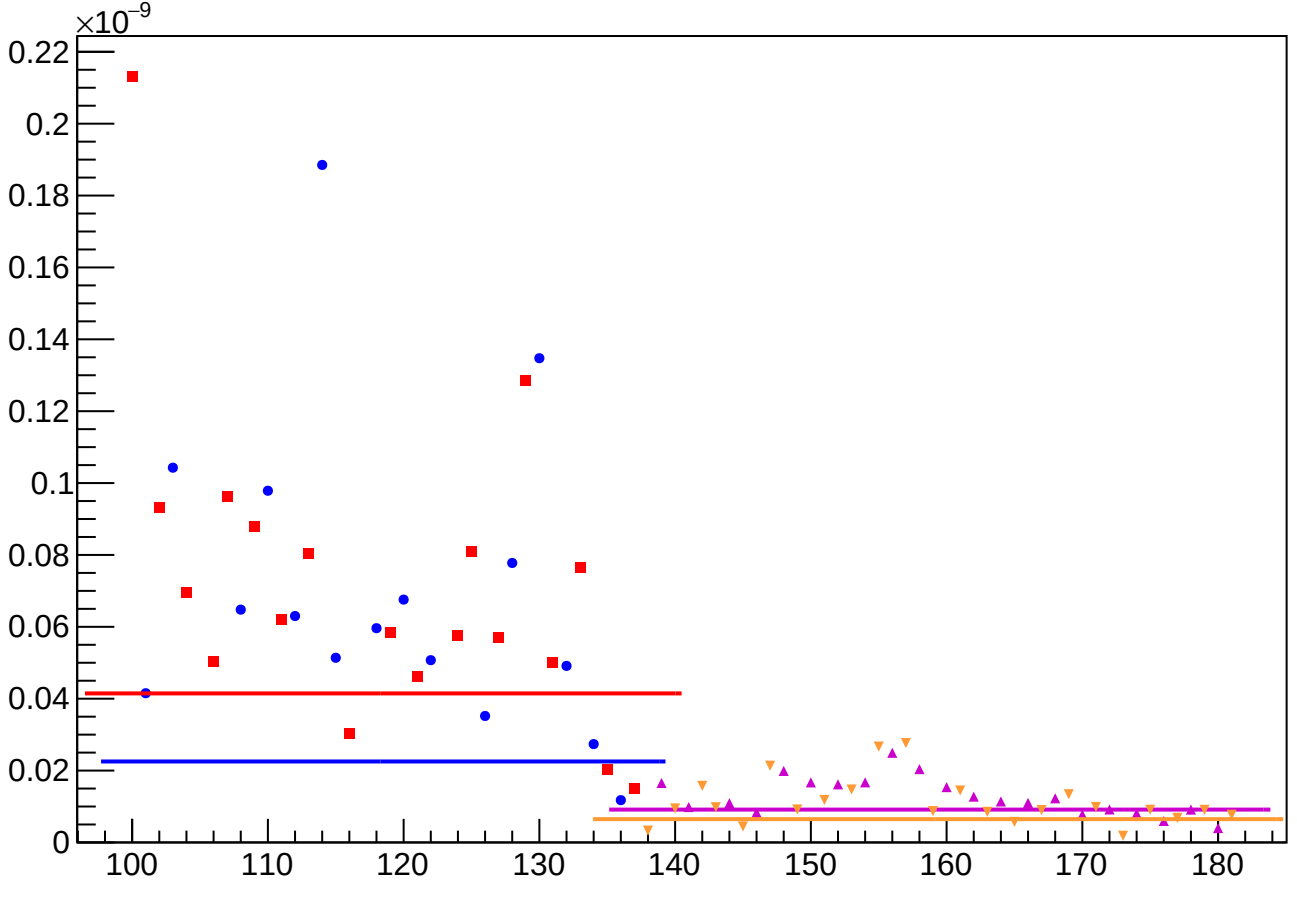
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:46.2/41

All: -0.000+/-0.000 $\chi^2$/NDF: 76.2/78

asym_sam_3726_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2852766.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3721567.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1847735.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2215303.6/20

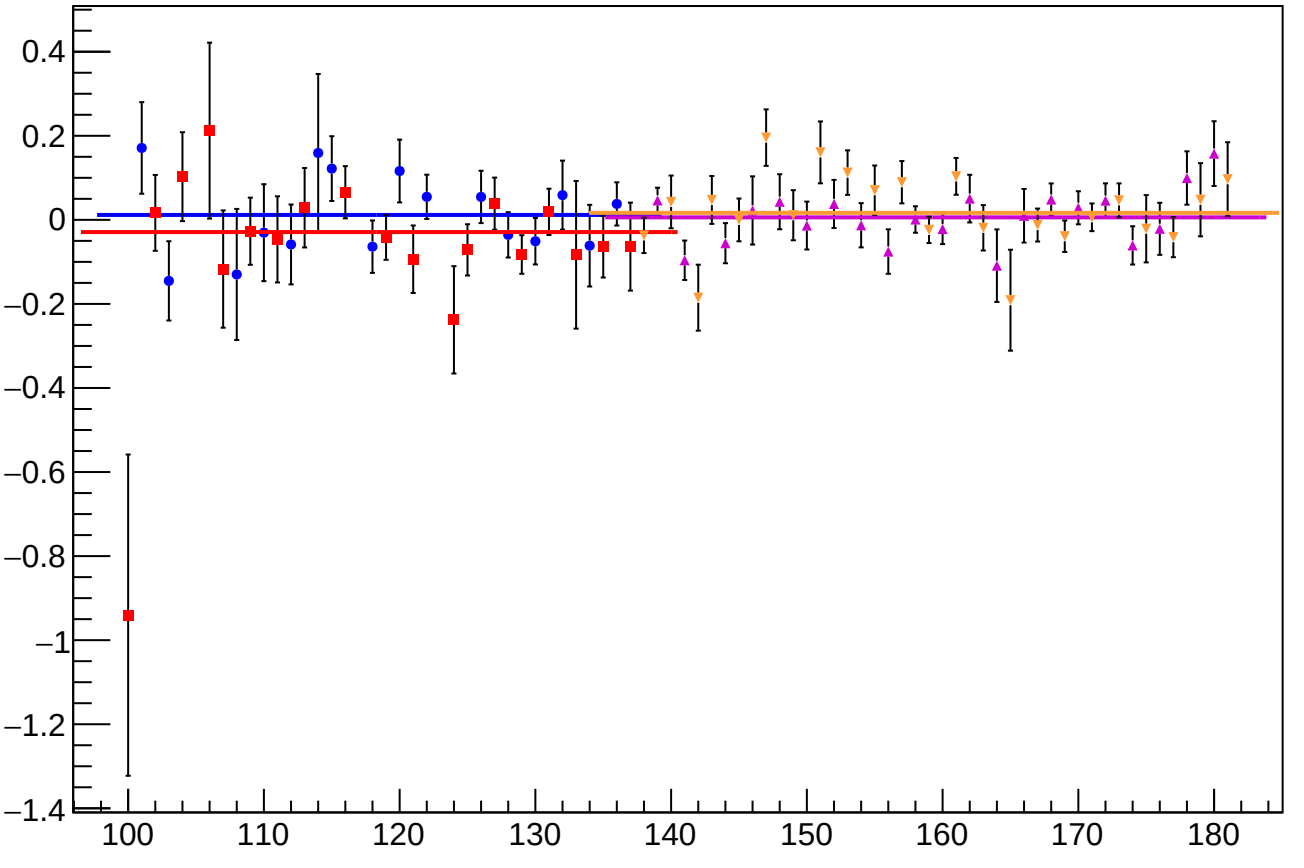
Left: 0.000+/-0.000 $\chi^2$/NDF: 6461830.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5394567.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:6196401.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8864265.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15700655.2/78




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: 0.017+/-0.010 $\chi^2$/NDF:41.0/22

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: 0.006+/-0.010 $\chi^2$/NDF:25.4/20

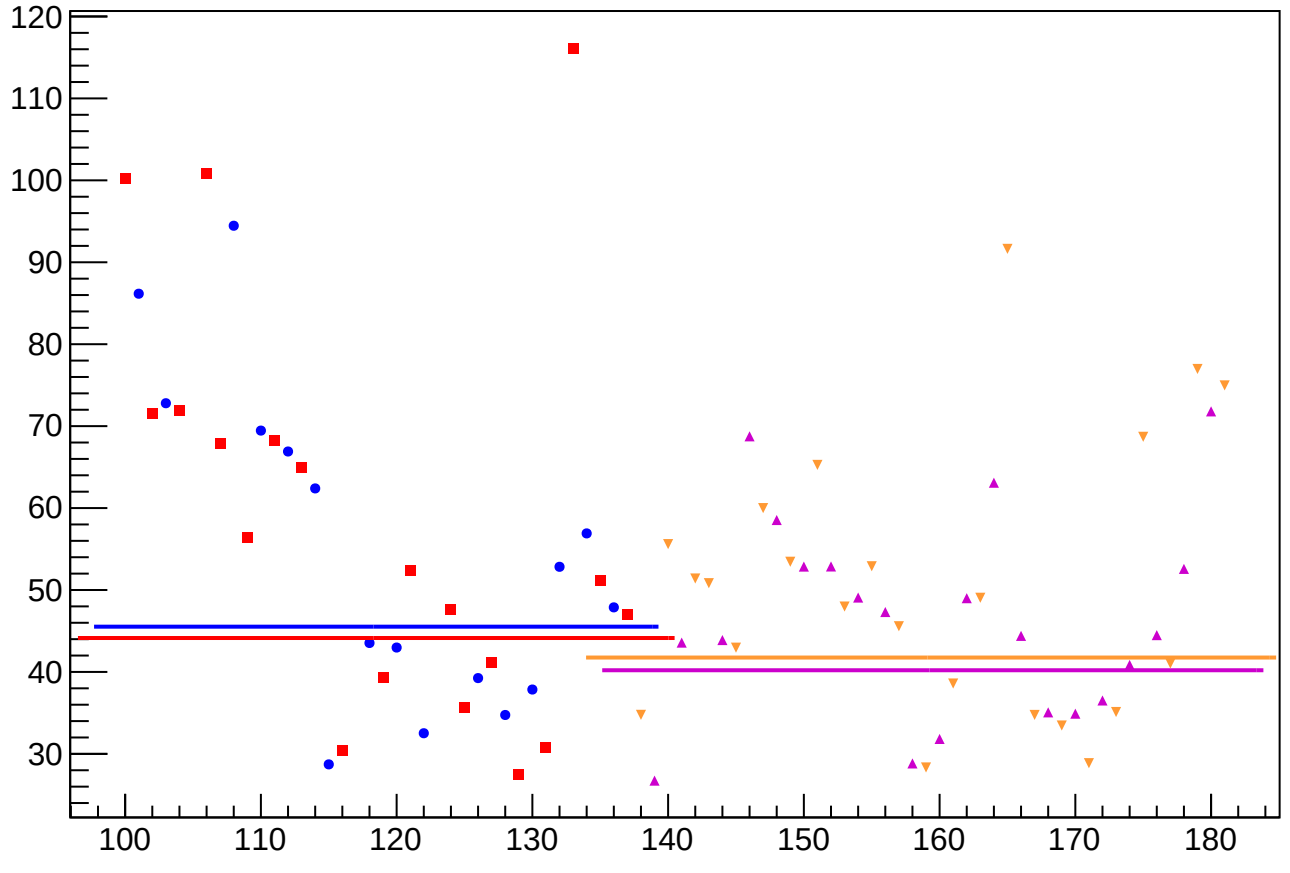
Left: 0.011+/-0.007 $\chi^2$/NDF: 66.9/43

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.007+/-0.009 $\chi^2$/NDF:42.3/36

Out: 0.005+/-0.009 $\chi^2$/NDF:65.4/41

All: 0.006+/-0.006 $\chi^2$/NDF: 107.8/78




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253967.4/15

Left Out: 41.757+/-0.007 $\chi^2$/NDF:2894938.3/22

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743430.9/18

Left In: 40.206+/-0.007 $\chi^2$/NDF:2195239.2/20

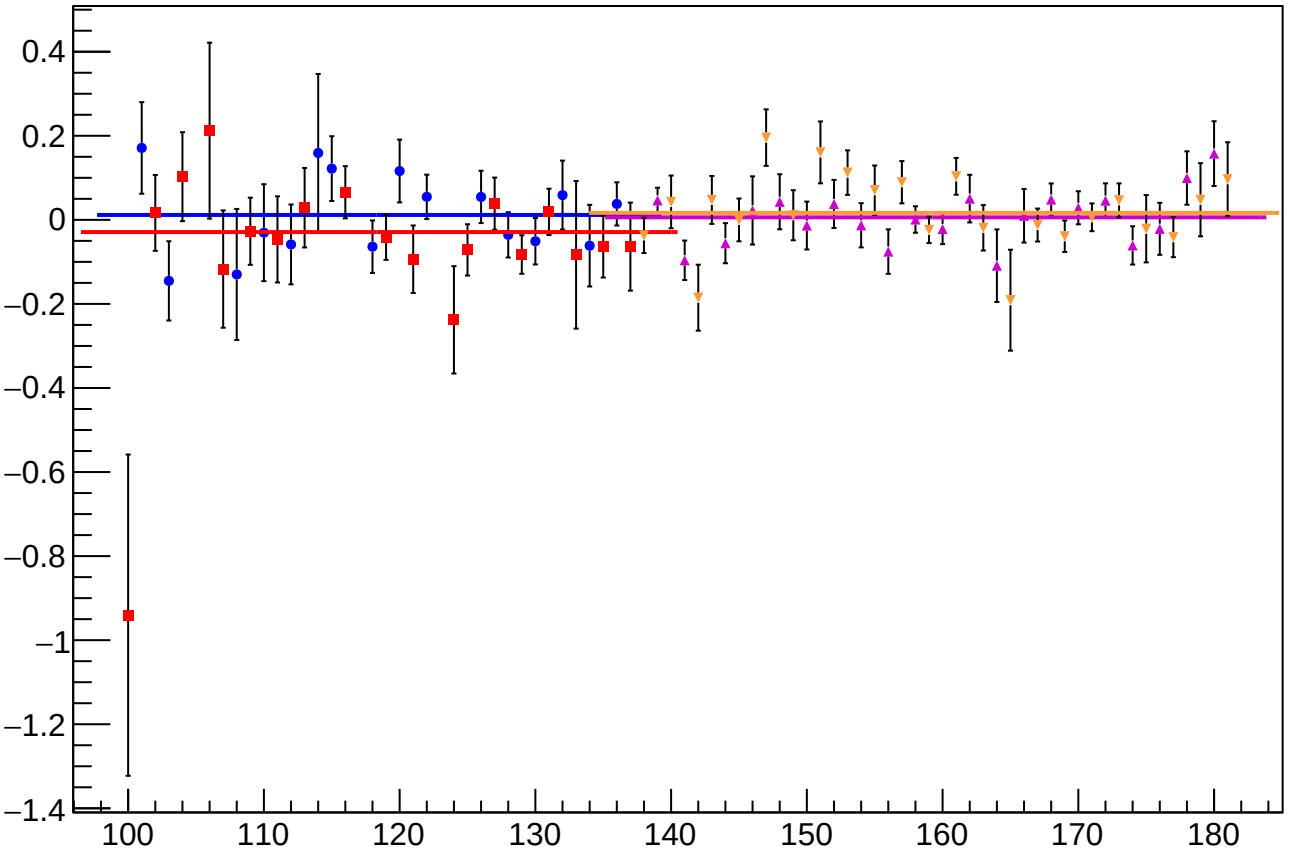
Left: 40.975+/-0.005 $\chi^2$/NDF: 5112296.6/43

Right: 44.816+/-0.009 $\chi^2$/NDF: 3003242.5/34

In: 41.499+/-0.006 $\chi^2$/NDF:3576816.4/36

Out: 42.366+/-0.006 $\chi^2$/NDF:4664834.0/41

All: 41.932+/-0.005 $\chi^2$/NDF: 8250844.1/78




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: 0.017+/-0.010 $\chi^2$/NDF:41.0/22

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: 0.006+/-0.010 $\chi^2$/NDF:25.4/20

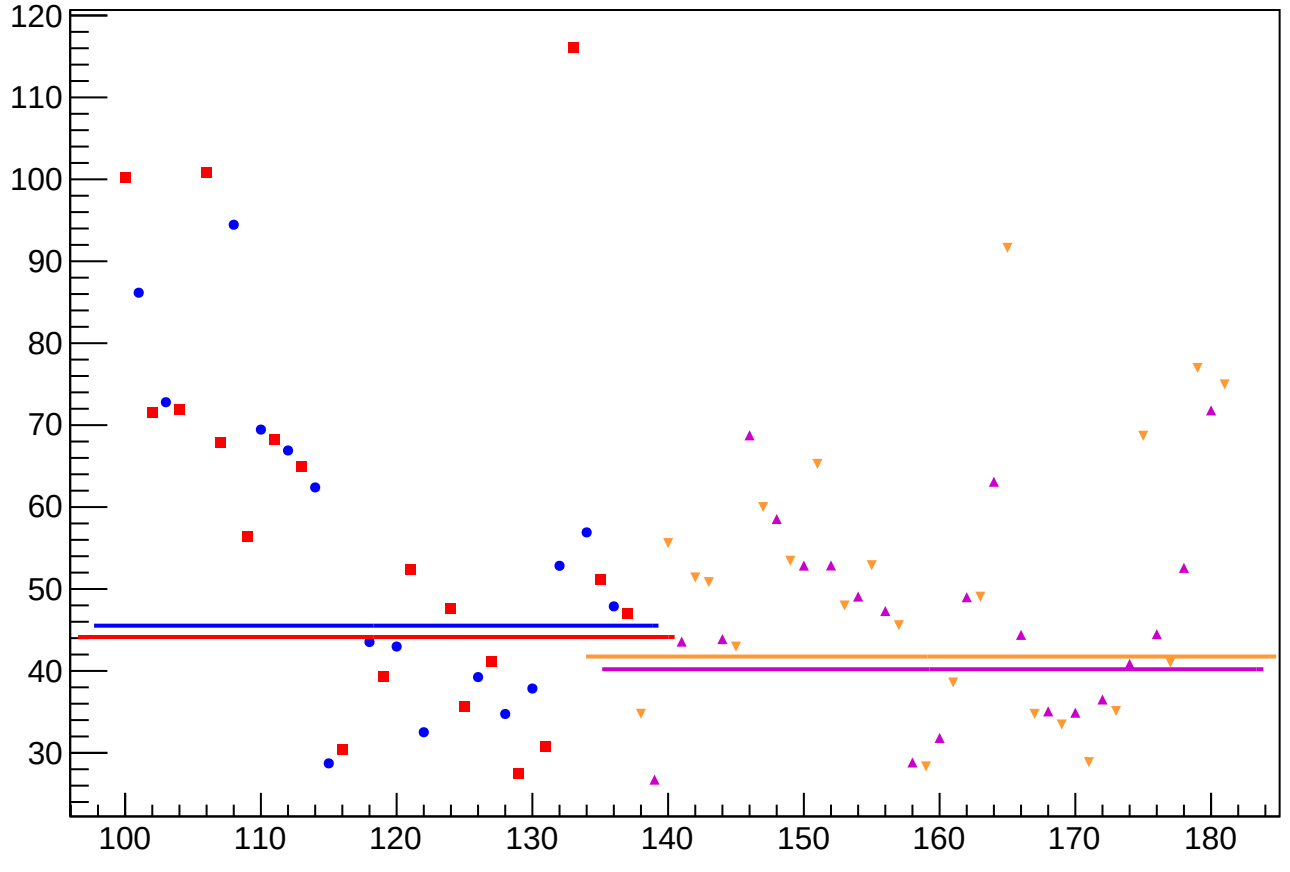
Left: 0.011+/-0.007 $\chi^2$/NDF: 66.9/43

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.007+/-0.009 $\chi^2$/NDF:42.3/36

Out: 0.005+/-0.009 $\chi^2$/NDF:65.4/41

All: 0.006+/-0.006 $\chi^2$/NDF: 107.8/78




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253967.4/15

Left Out: 41.757+/-0.007 $\chi^2$/NDF:2894938.3/22

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743430.9/18

Left In: 40.206+/-0.007 $\chi^2$/NDF:2195239.2/20

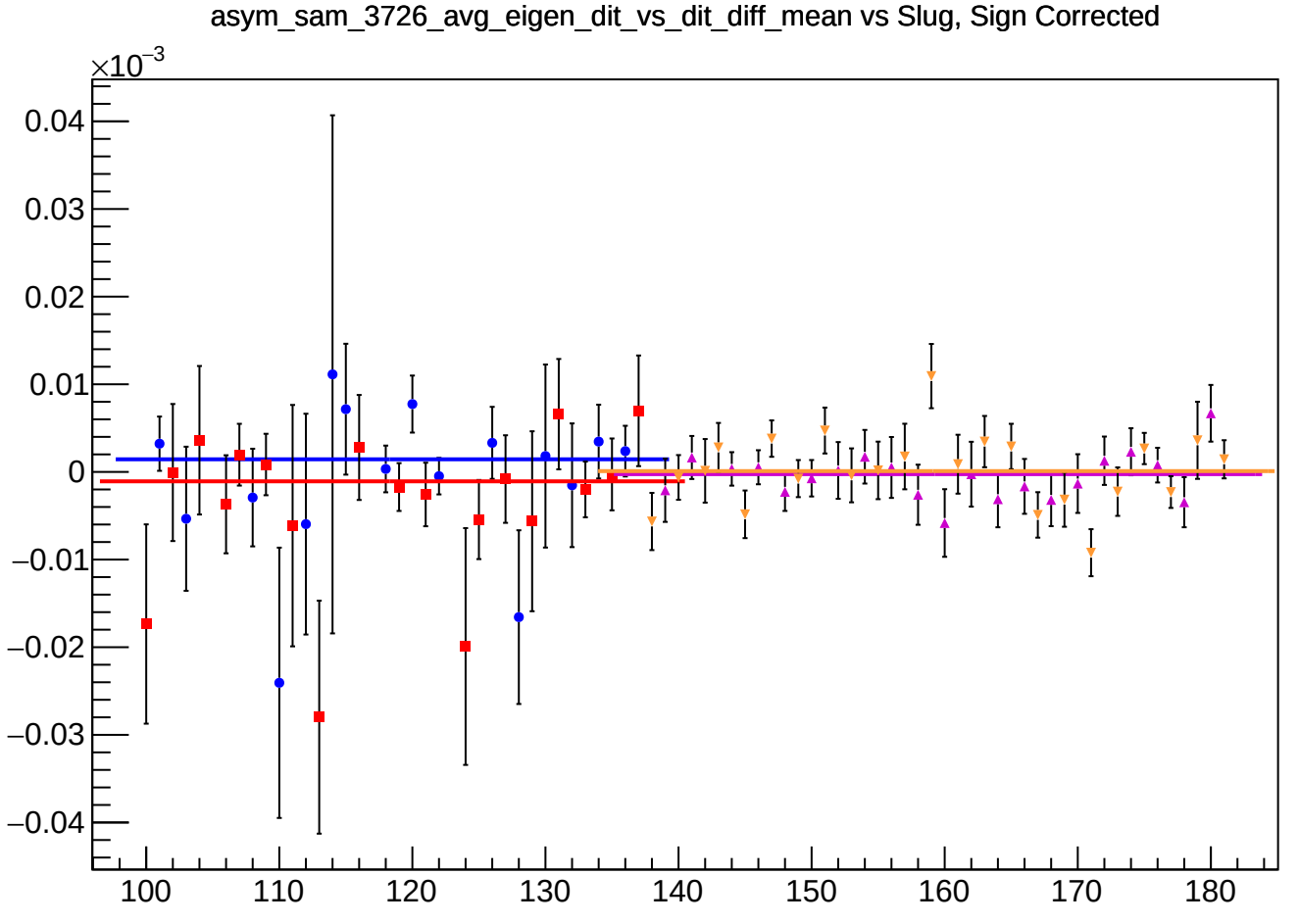
Left: 40.975+/-0.005 $\chi^2$/NDF: 5112296.6/43

Right: 44.816+/-0.009 $\chi^2$/NDF: 3003242.5/34

In: 41.499+/-0.006 $\chi^2$/NDF:3576816.4/36

Out: 42.366+/-0.006 $\chi^2$/NDF:4664834.0/41

All: 41.932+/-0.005 $\chi^2$/NDF: 8250844.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:47.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.5/20

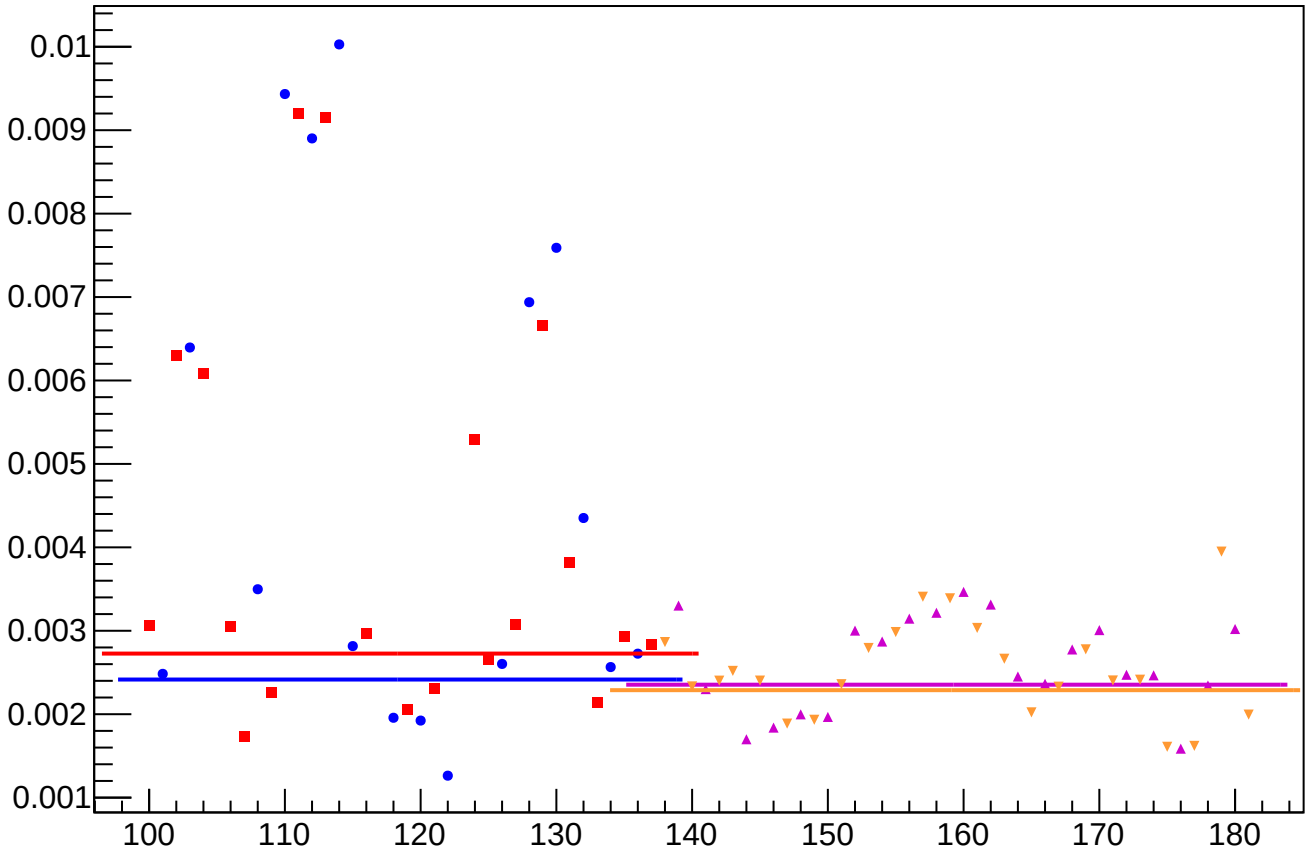
Left: -0.000+/-0.000 $\chi^2$/NDF: 62.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:30.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:63.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 94.4/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3432108.8/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1812902.1/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2505080.1/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1814837.3/20

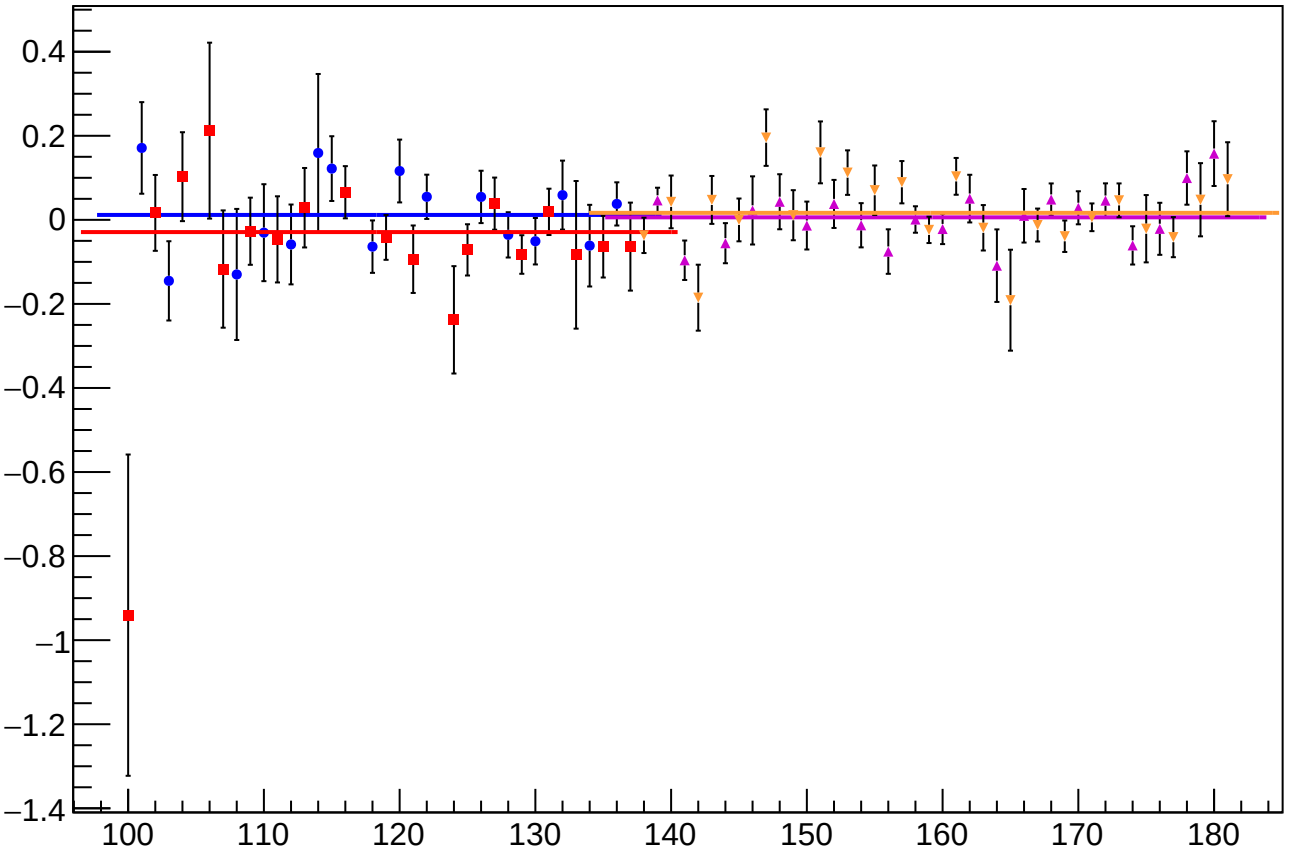
Left: 0.002+/-0.000 $\chi^2$/NDF: 3640987.2/43

Right: 0.003+/-0.000 $\chi^2$/NDF: 6019731.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:5252281.7/36

Out: 0.002+/-0.000 $\chi^2$/NDF:4564187.8/41

All: 0.002+/-0.000 $\chi^2$/NDF: 9816551.3/78




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: 0.017+/-0.010 $\chi^2$/NDF:41.0/22

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: 0.006+/-0.010 $\chi^2$/NDF:25.4/20

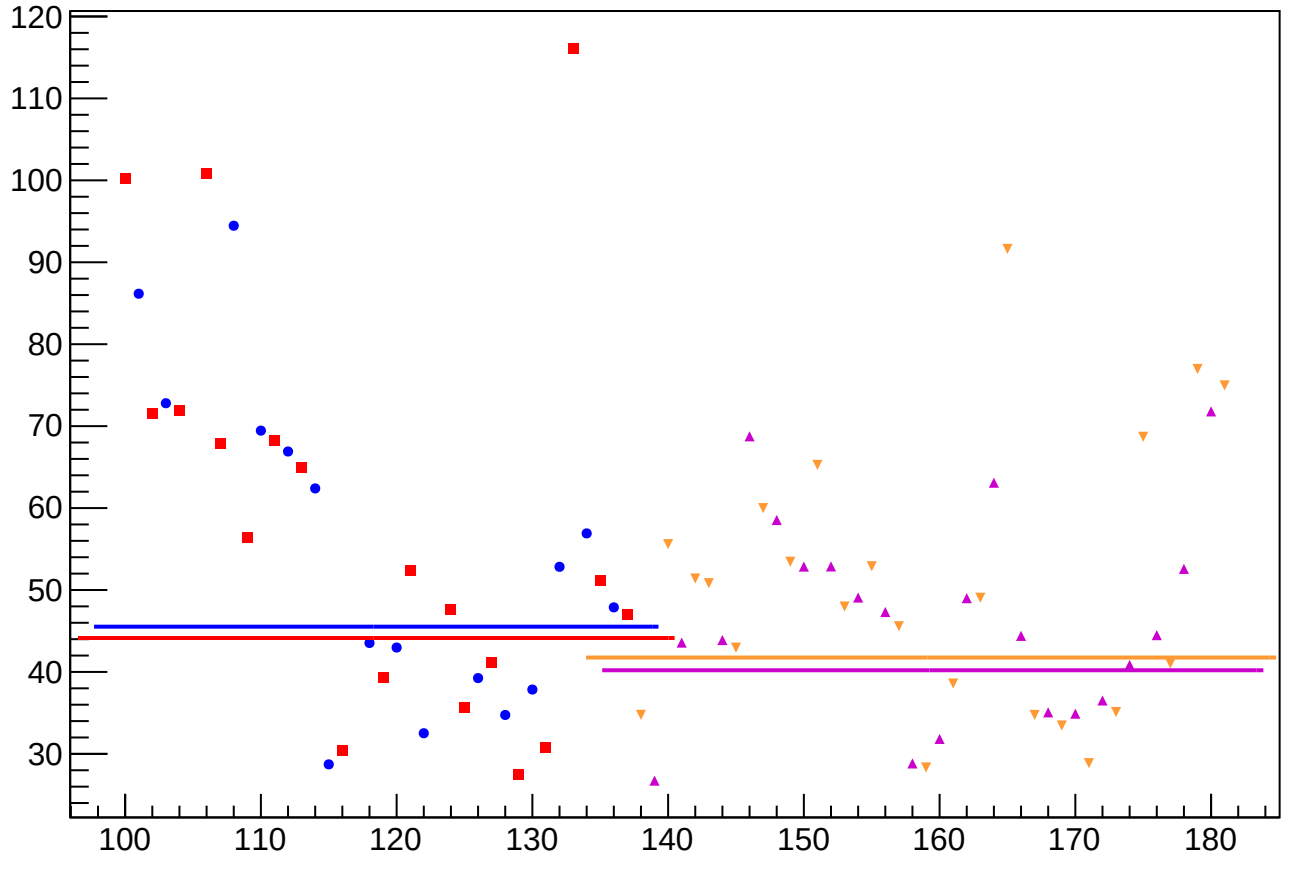
Left: 0.011+/-0.007 $\chi^2$/NDF: 66.9/43

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.007+/-0.009 $\chi^2$/NDF:42.3/36

Out: 0.005+/-0.009 $\chi^2$/NDF:65.5/41

All: 0.006+/-0.006 $\chi^2$/NDF: 107.8/78




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253922.0/15

Left Out: 41.757+/-0.007 $\chi^2$/NDF:2894972.6/22

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743351.0/18

Left In: 40.206+/-0.007 $\chi^2$/NDF:2195267.7/20

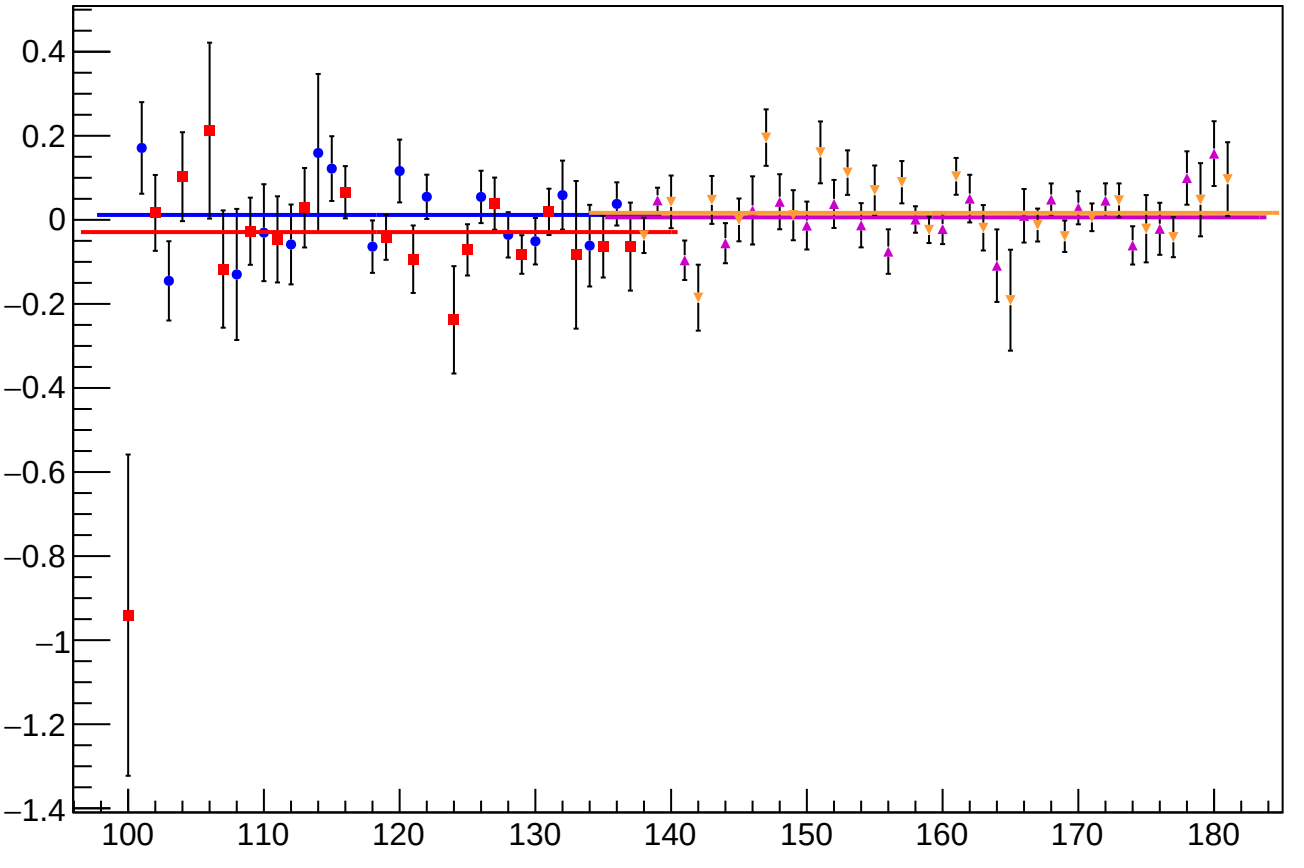
Left: 40.975+/-0.005 $\chi^2$/NDF: 5112357.6/43

Right: 44.816+/-0.009 $\chi^2$/NDF: 3003114.2/34

In: 41.500+/-0.006 $\chi^2$/NDF:3576783.4/36

Out: 42.366+/-0.006 $\chi^2$/NDF:4664790.0/41

All: 41.933+/-0.005 $\chi^2$/NDF: 8250767.7/78




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: 0.017+/-0.010 $\chi^2$/NDF:41.0/22

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: 0.006+/-0.010 $\chi^2$/NDF:25.4/20

Left: 0.011+/-0.007 $\chi^2$/NDF: 66.9/43

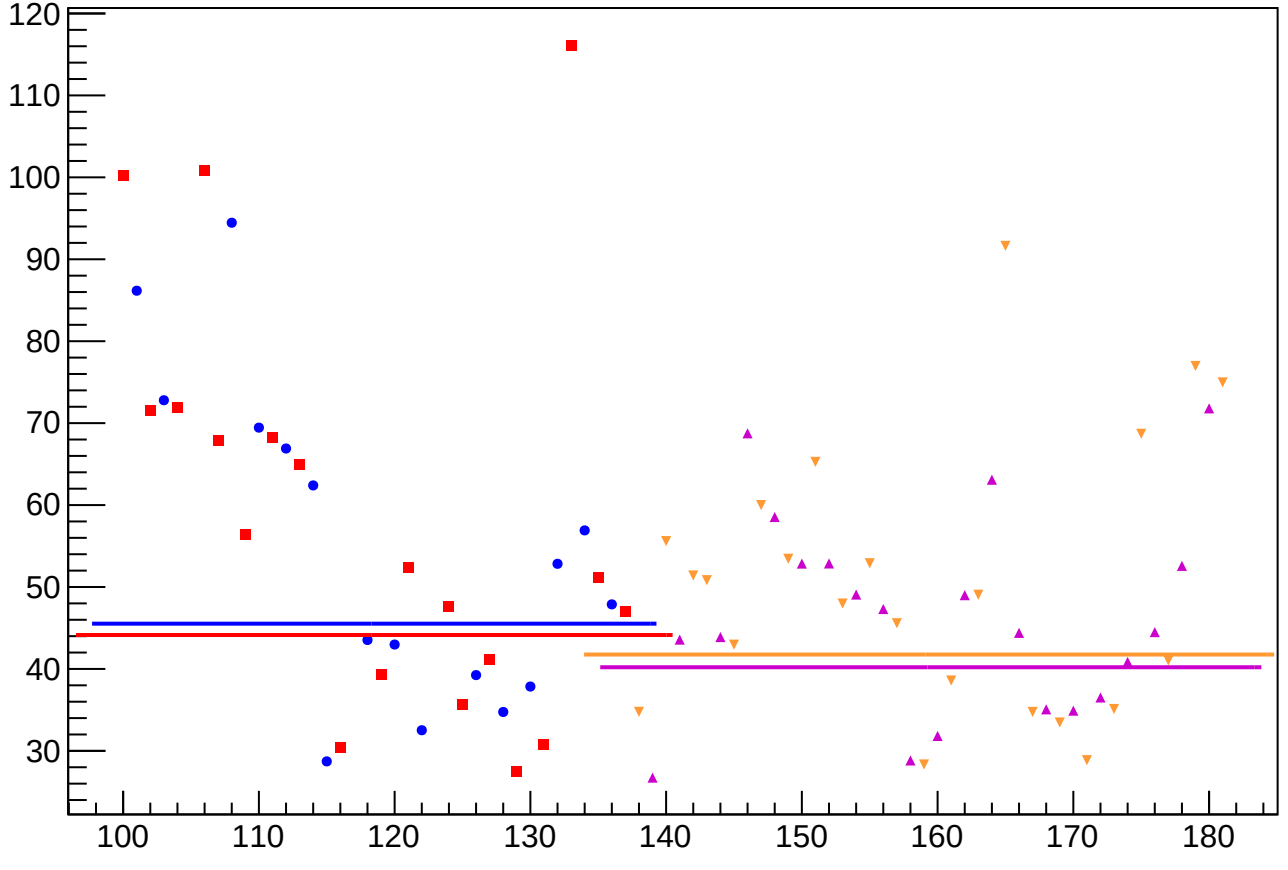
Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.007+/-0.009 $\chi^2$/NDF:42.3/36

Out: 0.005+/-0.009 $\chi^2$/NDF:65.5/41

All: 0.006+/-0.006 $\chi^2$/NDF: 107.8/78

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253922.0/15

Left Out: 41.757+/-0.007 $\chi^2$/NDF:2894972.6/22

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743351.0/18

Left In: 40.206+/-0.007 $\chi^2$/NDF:2195267.7/20

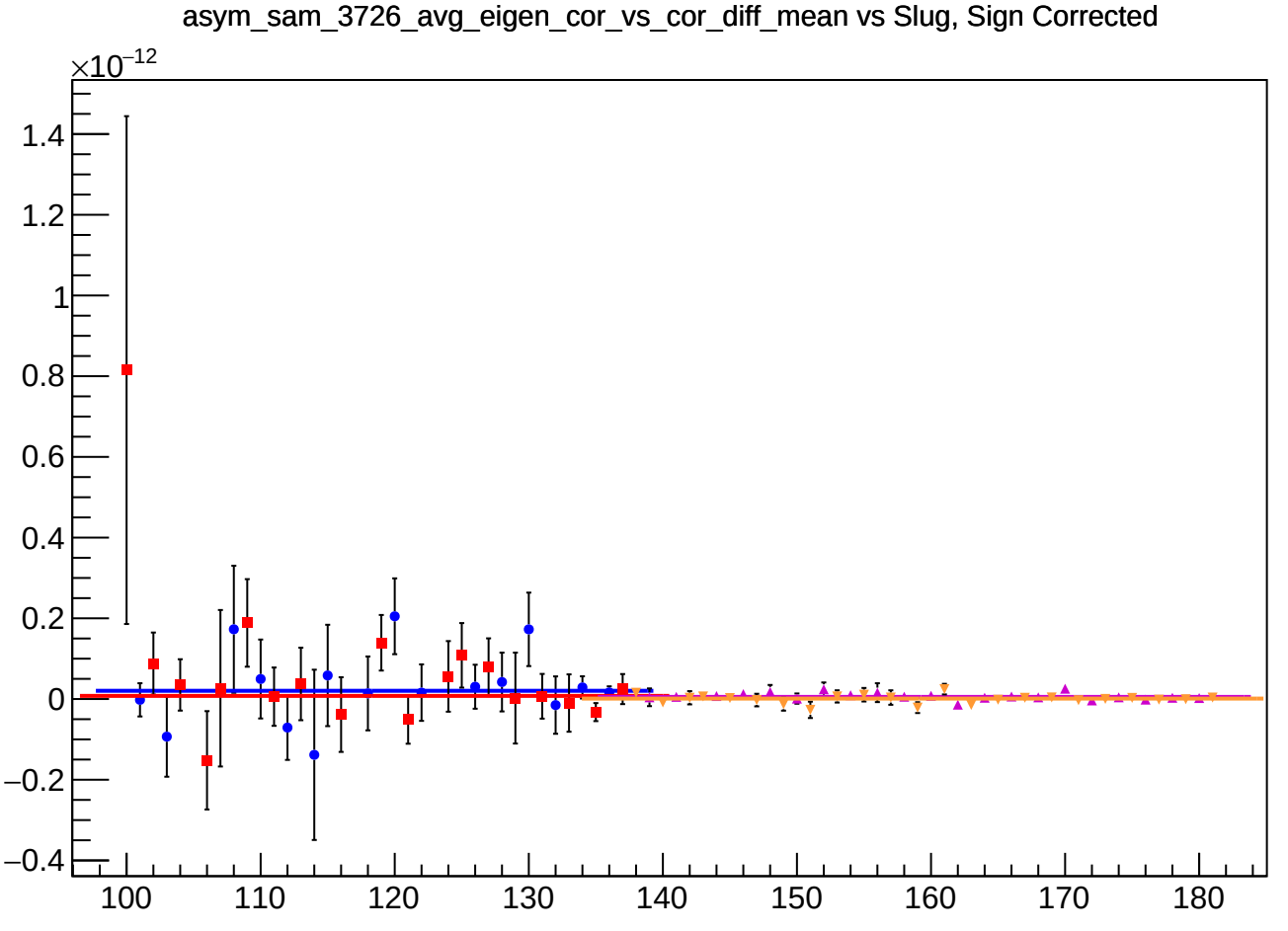
Left: 40.975+/-0.005 $\chi^2$/NDF: 5112357.6/43

Right: 44.816+/-0.009 $\chi^2$/NDF: 3003114.2/34

In: 41.500+/-0.006 $\chi^2$/NDF:3576783.4/36

Out: 42.366+/-0.006 $\chi^2$/NDF:4664790.0/41

All: 41.933+/-0.005 $\chi^2$/NDF: 8250767.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:12.8/20

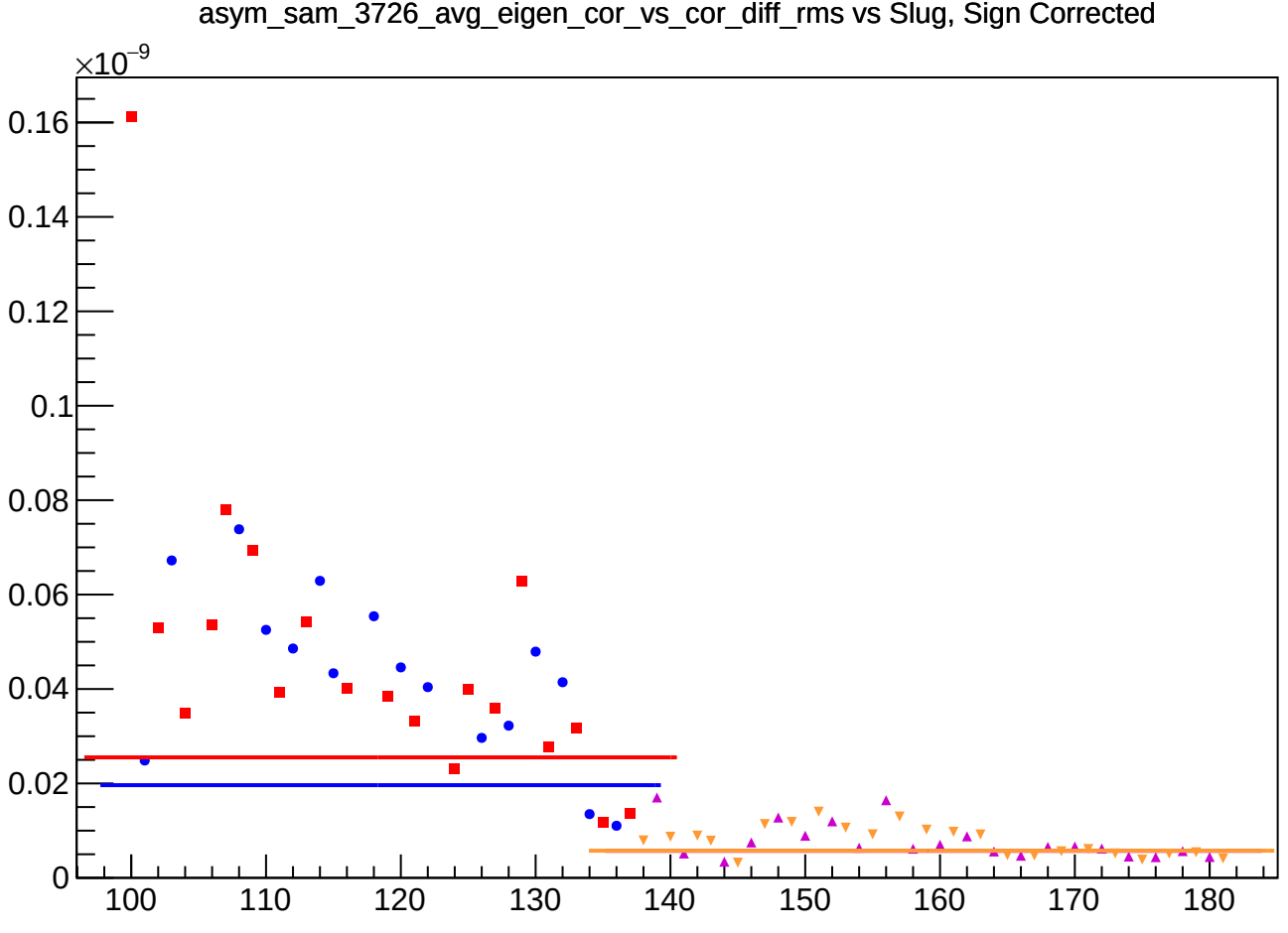
Left: 0.000+/-0.000 $\chi^2$/NDF: 29.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:33.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 62.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3241093.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3363588.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2703953.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2567823.8/20

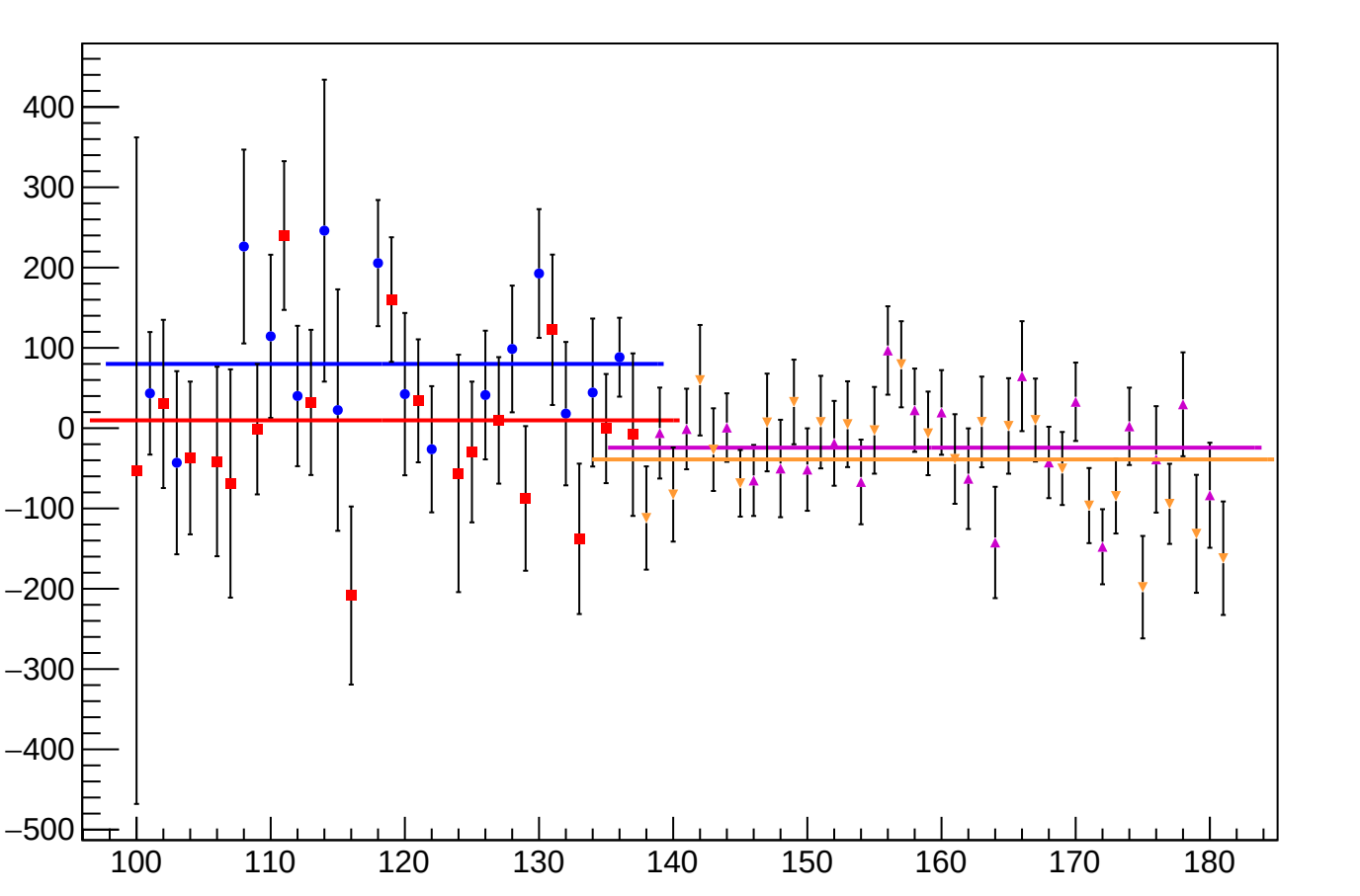
Left: 0.000+/-0.000 $\chi^2$/NDF: 5931625.3/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 6166556.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:8816082.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:10155526.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 18971675.1/78




Right In: 79.993+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -38.930+/-11.344 $\chi^2$/NDF:30.6/22

Right Out: 9.730+/-21.617 $\chi^2$/NDF: 20.3/18

Left In: -24.280+/-11.631 $\chi^2$/NDF:24.3/20

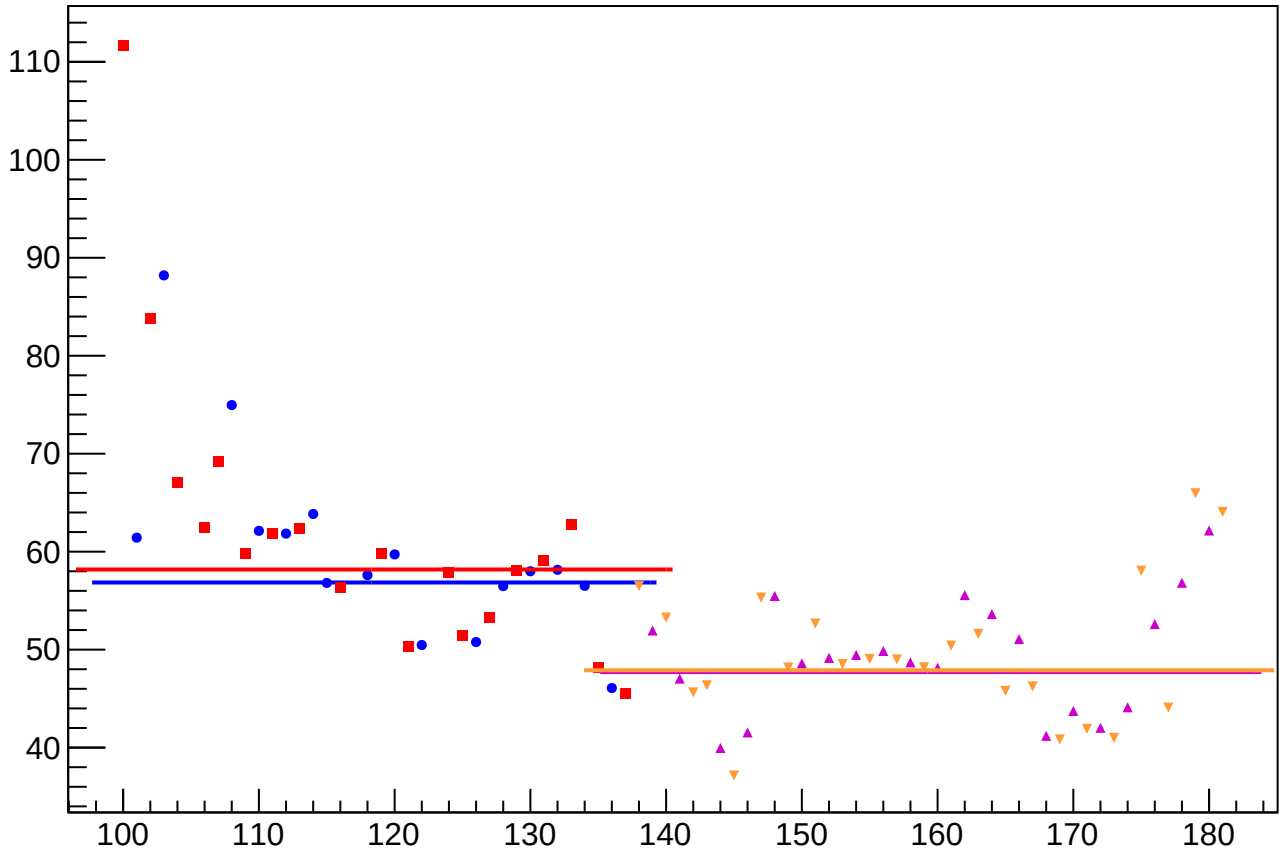
Left: -31.788+/-8.121 $\chi^2$/NDF: 55.8/43

Right: 45.094+/-15.235 $\chi^2$/NDF: 37.2/34

In: -0.628+/-10.228 $\chi^2$/NDF:54.1/36

Out: -28.422+/-10.045 $\chi^2$/NDF:54.9/41

All: -14.775+/-7.167 $\chi^2$/NDF: 112.8/78




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341601.2/15

Left Out: 47.893+/-0.008 $\chi^2$/NDF:666195.0/22

Right Out: 58.181+/-0.015 $\chi^2$/NDF: 314660.6/18

Left In: 47.711+/-0.008 $\chi^2$/NDF:453329.7/20

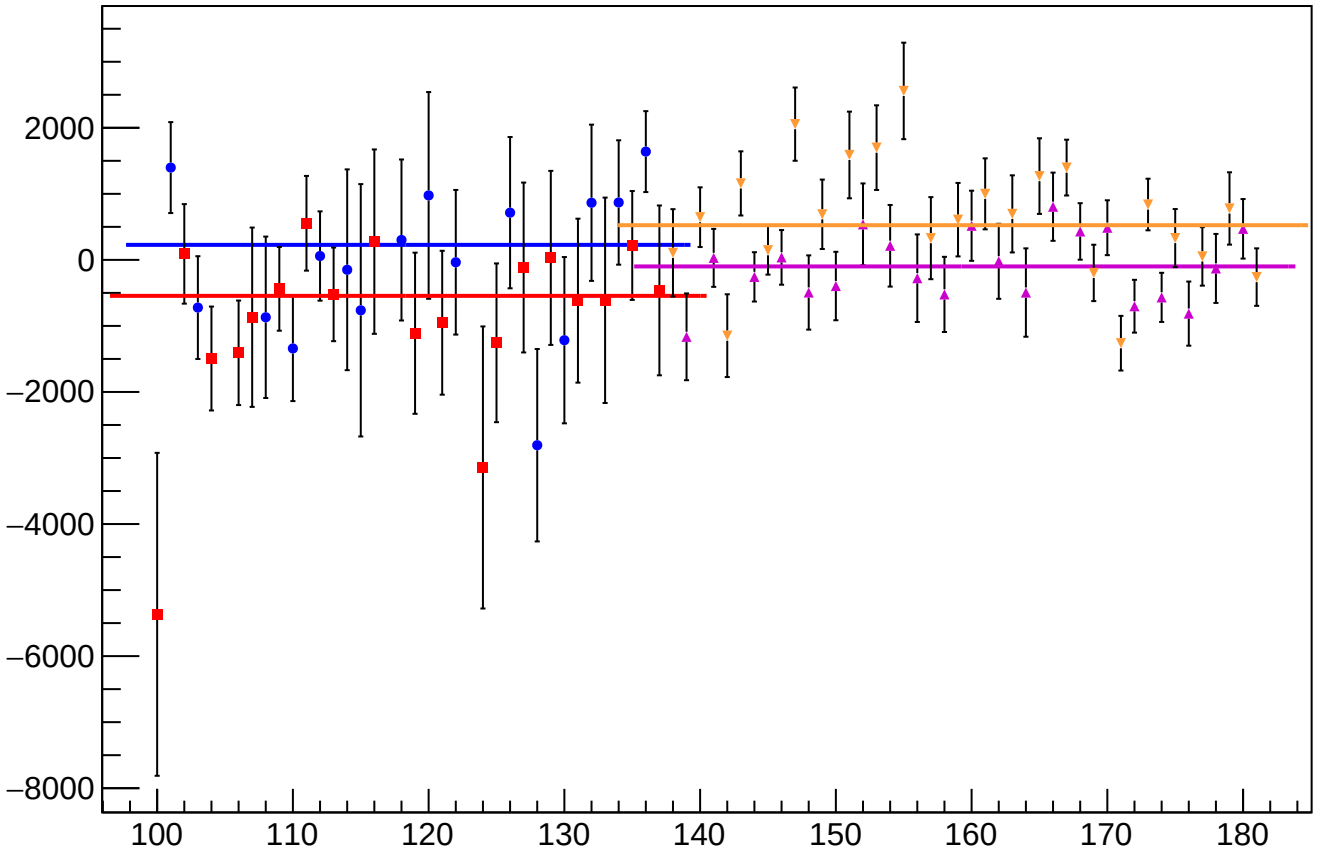
Left: 47.804+/-0.006 $\chi^2$/NDF: 1119774.1/43

Right: 57.513+/-0.011 $\chi^2$/NDF: 660056.1/34

In: 49.785+/-0.007 $\chi^2$/NDF:1075247.6/36

Out: 50.114+/-0.007 $\chi^2$/NDF:1336086.8/41

All: 49.953+/-0.005 $\chi^2$/NDF: 2412389.1/78




Right In: 227.508+/-241.225 $\chi^2$/NDF: 21.6/15

Left Out: 525.190+/-104.029 $\chi^2$/NDF:65.7/22

Right Out: -544.769+/-227.243 $\chi^2$/NDF: 13.4/18

Left In: -99.066+/-106.483 $\chi^2$/NDF:21.7/20

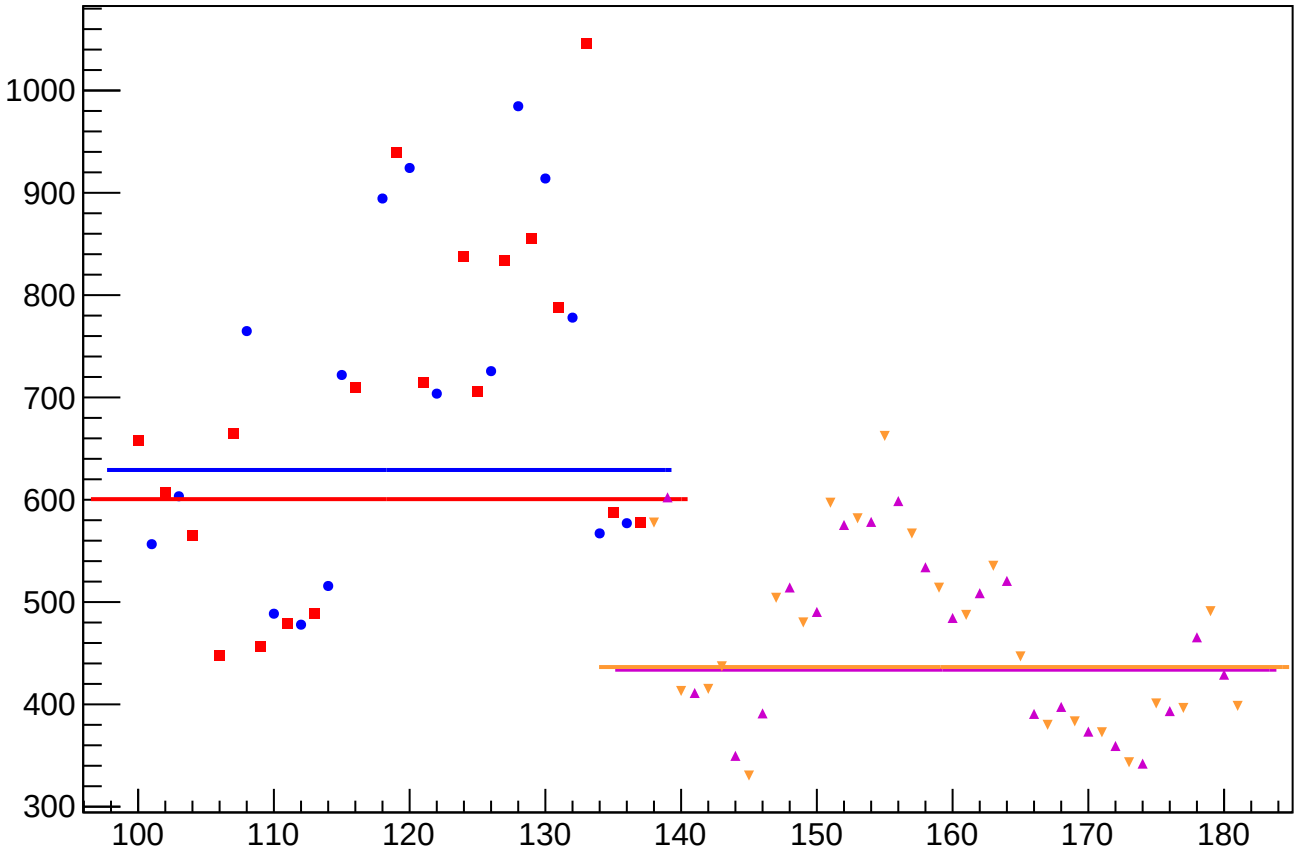
Left: 220.337+/-74.412 $\chi^2$/NDF: 104.9/43

Right: -181.660+/-165.407 $\chi^2$/NDF: 40.4/34

In: -45.809+/-97.414 $\chi^2$/NDF:44.9/36

Out: 339.808+/-94.589 $\chi^2$/NDF:97.4/41

All: 152.673+/-67.861 $\chi^2$/NDF: 150.3/78




Right In: 629.096+/-0.171 $\chi^2$/NDF: 692724.2/15

Left Out: 436.488+/-0.074 $\chi^2$/NDF:1216150.8/22

Right Out: 600.593+/-0.161 $\chi^2$/NDF: 874614.2/18

Left In: 433.891+/-0.075 $\chi^2$/NDF:1093886.0/20

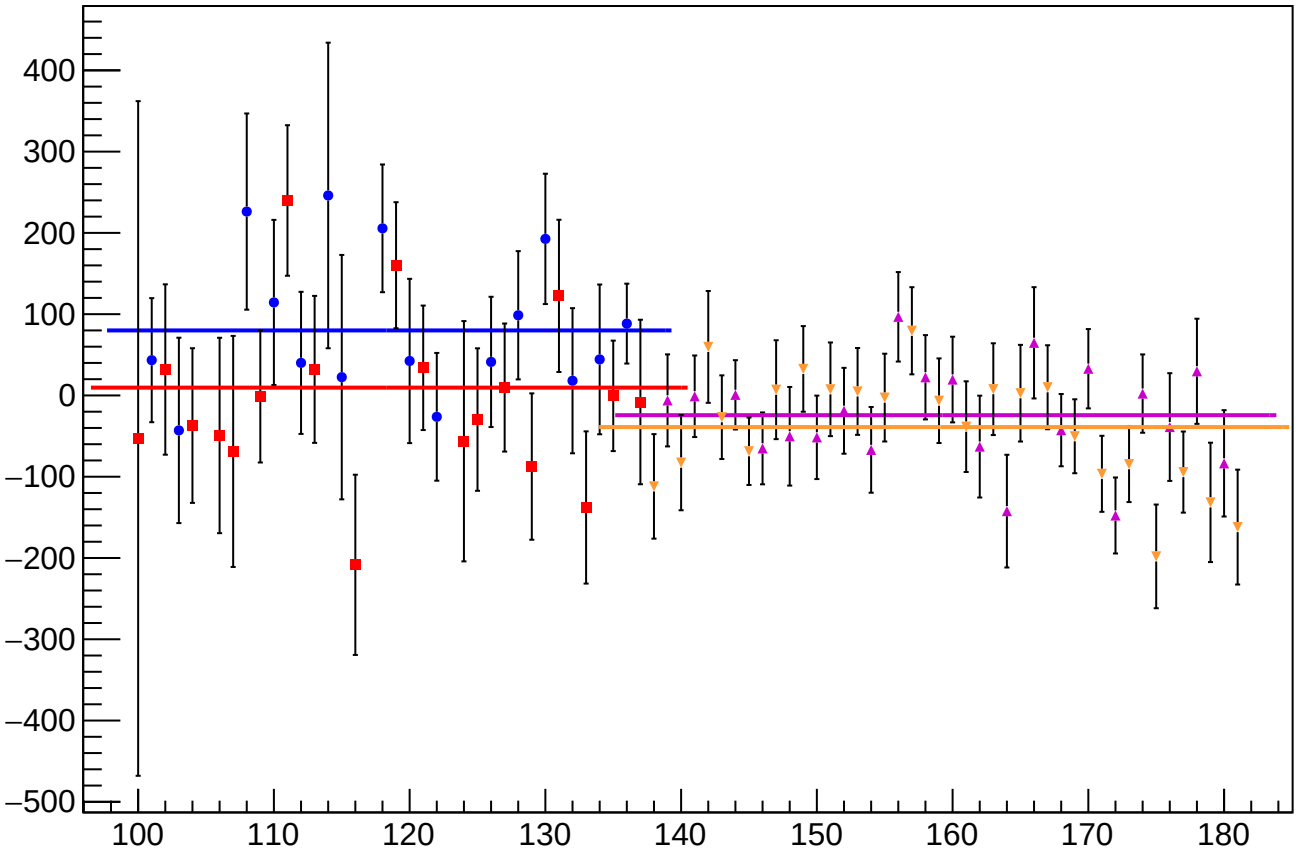
Left: 435.220+/-0.053 $\chi^2$/NDF: 2310645.8/43

Right: 613.994+/-0.117 $\chi^2$/NDF: 1582132.3/34

In: 465.725+/-0.069 $\chi^2$/NDF:2882714.1/36

Out: 464.921+/-0.067 $\chi^2$/NDF:2953070.2/41

All: 465.311+/-0.048 $\chi^2$/NDF: 5835854.3/78




Right In: 79.998+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -38.933+/-11.344 $\chi^2$/NDF:30.6/22

Right Out: 9.619+/-21.631 $\chi^2$/NDF: 20.4/18

Left In: -24.281+/-11.631 $\chi^2$/NDF:24.3/20

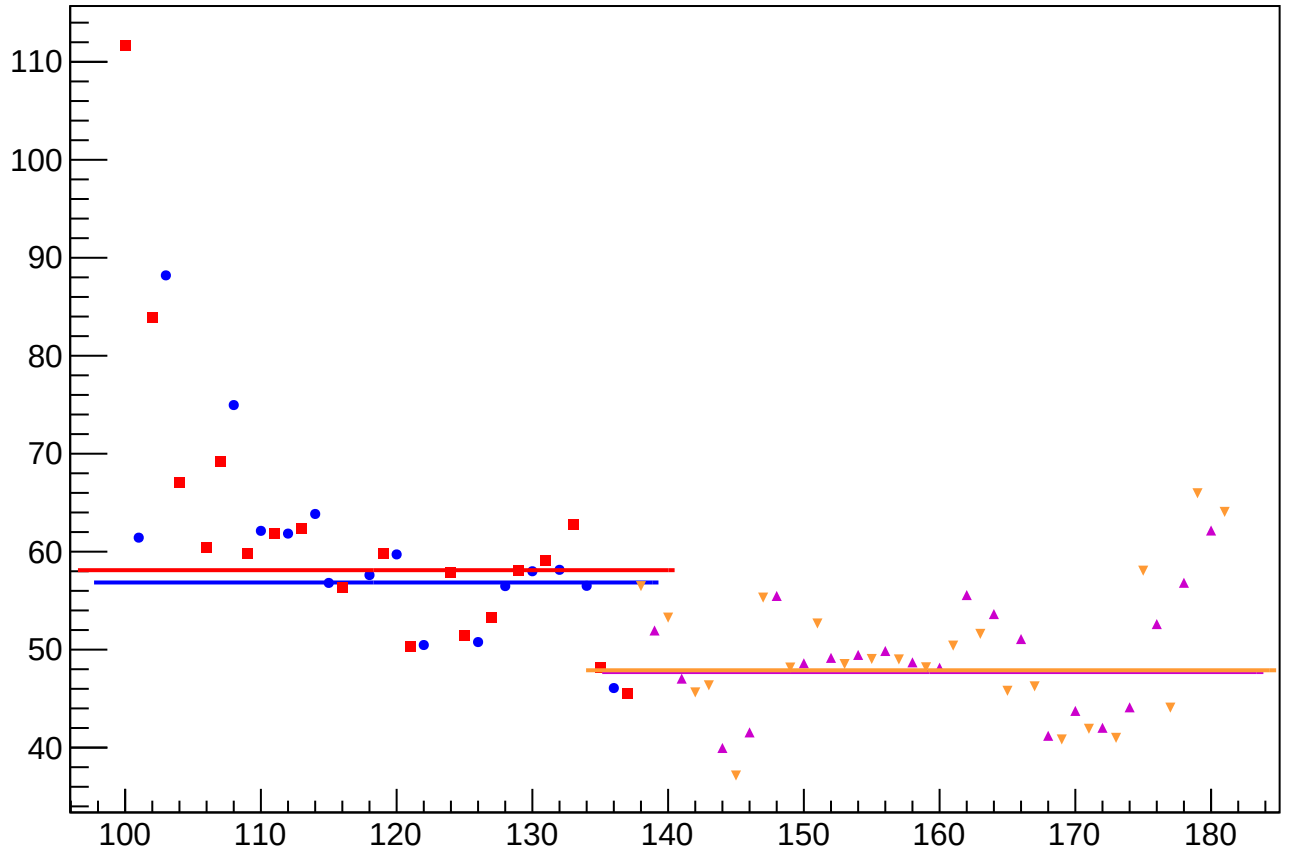
Left: -31.790+/-8.121 $\chi^2$/NDF: 55.8/43

Right: 45.064+/-15.240 $\chi^2$/NDF: 37.3/34

In: -0.628+/-10.228 $\chi^2$/NDF:54.1/36

Out: -28.460+/-10.047 $\chi^2$/NDF:55.0/41

All: -14.792+/-7.167 $\chi^2$/NDF: 112.9/78




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341605.0/15

Left Out: 47.893+/-0.008 $\chi^2$/NDF:666195.0/22

Right Out: 58.111+/-0.015 $\chi^2$/NDF: 312938.5/18

Left In: 47.711+/-0.008 $\chi^2$/NDF:453329.7/20

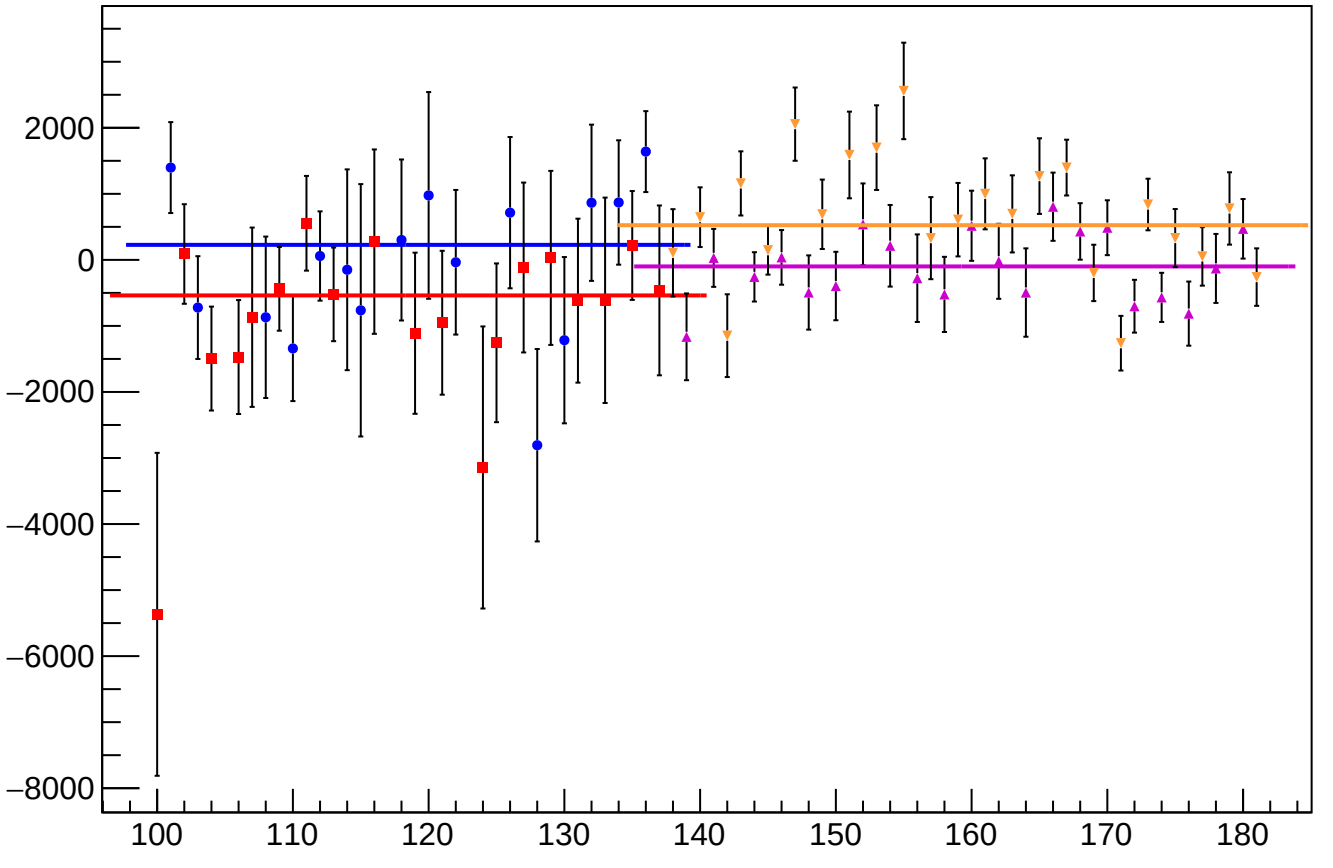
Left: 47.804+/-0.006 $\chi^2$/NDF: 1119774.1/43

Right: 57.478+/-0.011 $\chi^2$/NDF: 657942.0/34

In: 49.785+/-0.007 $\chi^2$/NDF:1075251.6/36

Out: 50.097+/-0.007 $\chi^2$/NDF:1329152.8/41

All: 49.944+/-0.005 $\chi^2$/NDF: 2405350.2/78




Right In: 227.547+/-241.227 $\chi^2$/NDF: 21.6/15

Left Out: 525.188+/-104.029 $\chi^2$/NDF:65.7/22

Right Out: -538.117+/-228.754 $\chi^2$/NDF: 13.3/18

Left In: -99.069+/-106.483 $\chi^2$/NDF:21.7/20

Left: 220.334+/-74.412 $\chi^2$/NDF: 104.9/43

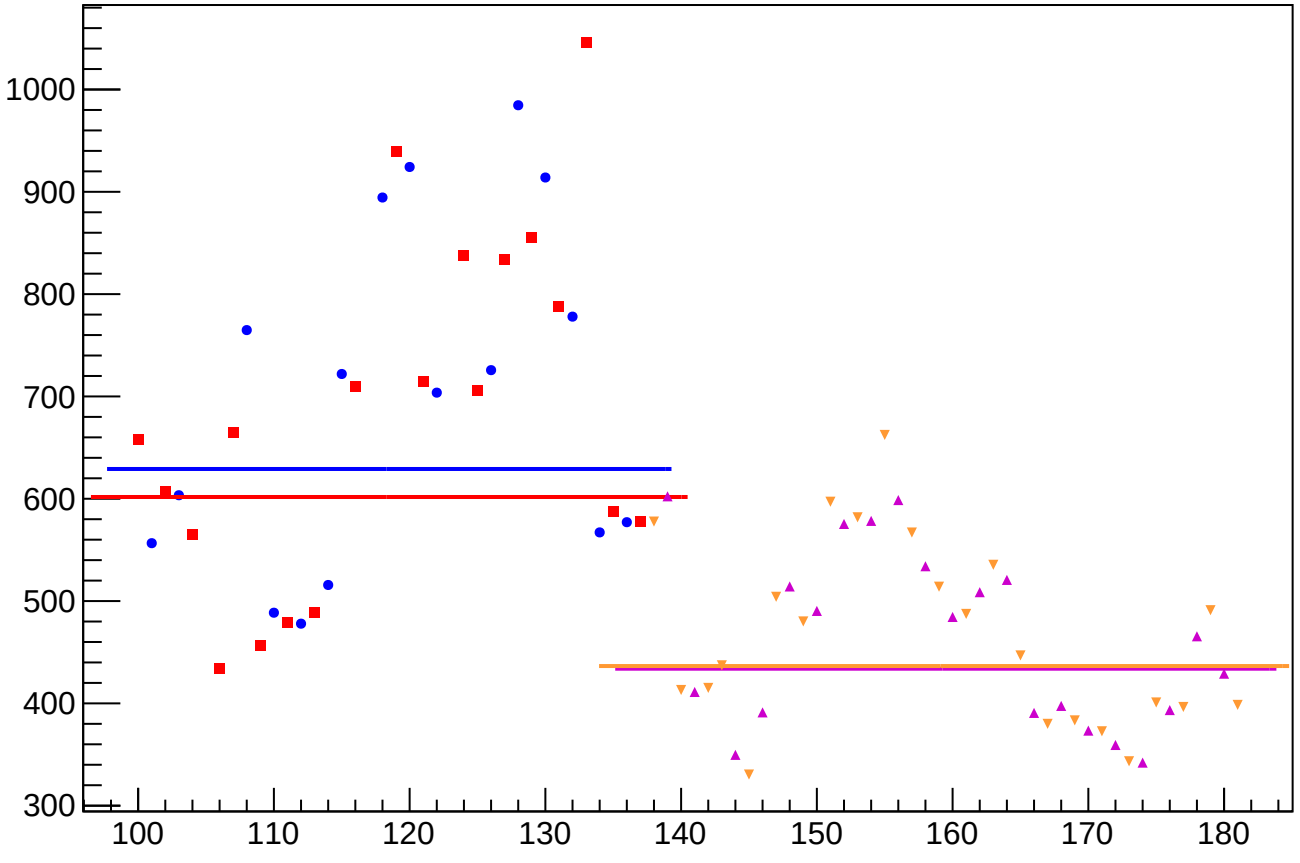
Right: -175.590+/-165.988 $\chi^2$/NDF: 40.3/34

In: -45.805+/-97.414 $\chi^2$/NDF:44.9/36

Out: 342.969+/-94.697 $\chi^2$/NDF:96.9/41

All: 154.080+/-67.901 $\chi^2$/NDF: 150.0/78

asym_sam_15_48_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 629.101+/-0.171 $\chi^2$/NDF: 692716.0/15

Left Out: 436.488+/-0.074 $\chi^2$/NDF:1216149.8/22

Right Out: 601.721+/-0.162 $\chi^2$/NDF: 874042.1/18

Left In: 433.891+/-0.075 $\chi^2$/NDF:1093885.7/20

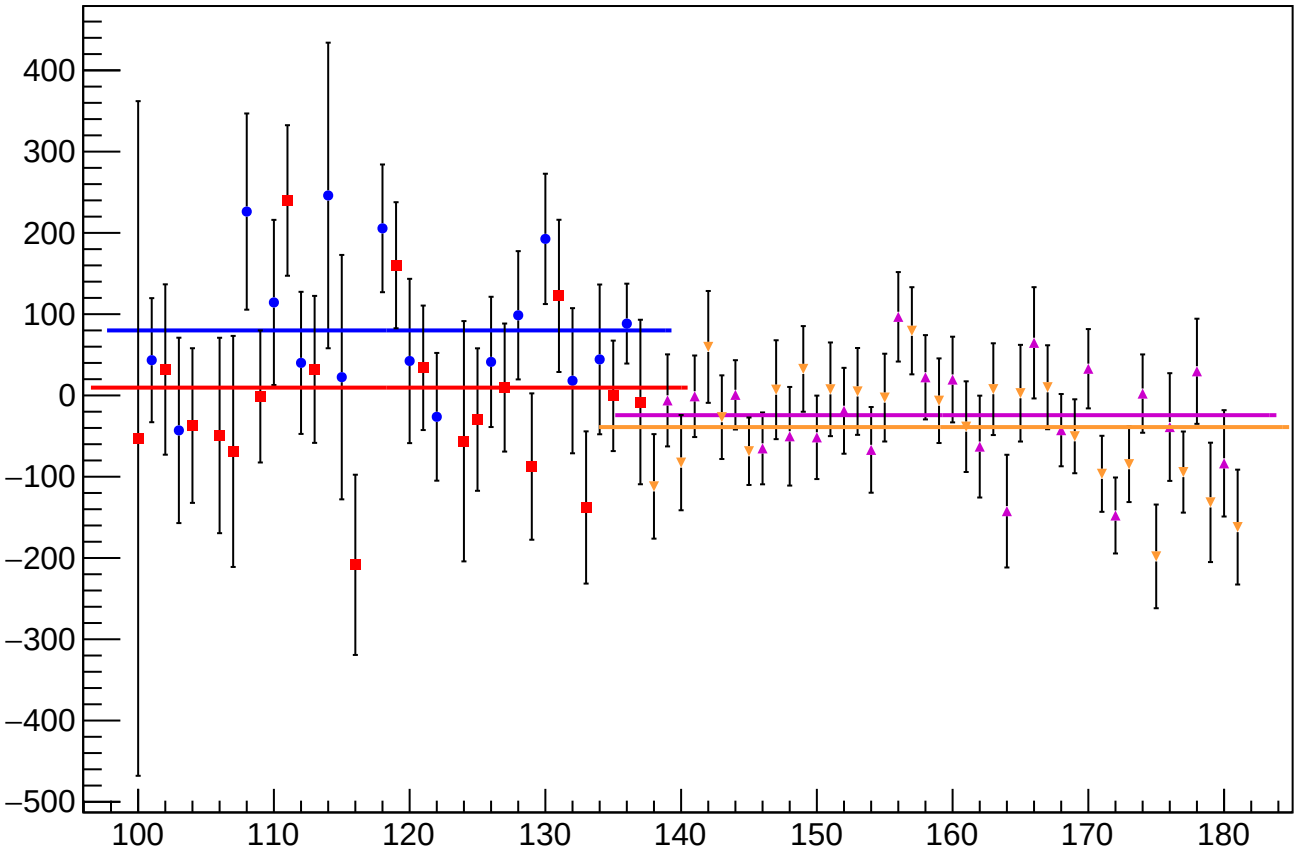
Left: 435.220+/-0.053 $\chi^2$/NDF: 2310644.4/43

Right: 614.684+/-0.117 $\chi^2$/NDF: 1580324.3/34

In: 465.725+/-0.069 $\chi^2$/NDF:2882743.6/36

Out: 464.804+/-0.067 $\chi^2$/NDF:2954845.9/41

All: 465.252+/-0.048 $\chi^2$/NDF: 5837681.4/78




Right In: 79.998+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -38.933+/-11.344 $\chi^2$/NDF:30.6/22

Right Out: 9.619+/-21.631 $\chi^2$/NDF: 20.4/18

Left In: -24.281+/-11.631 $\chi^2$/NDF:24.3/20

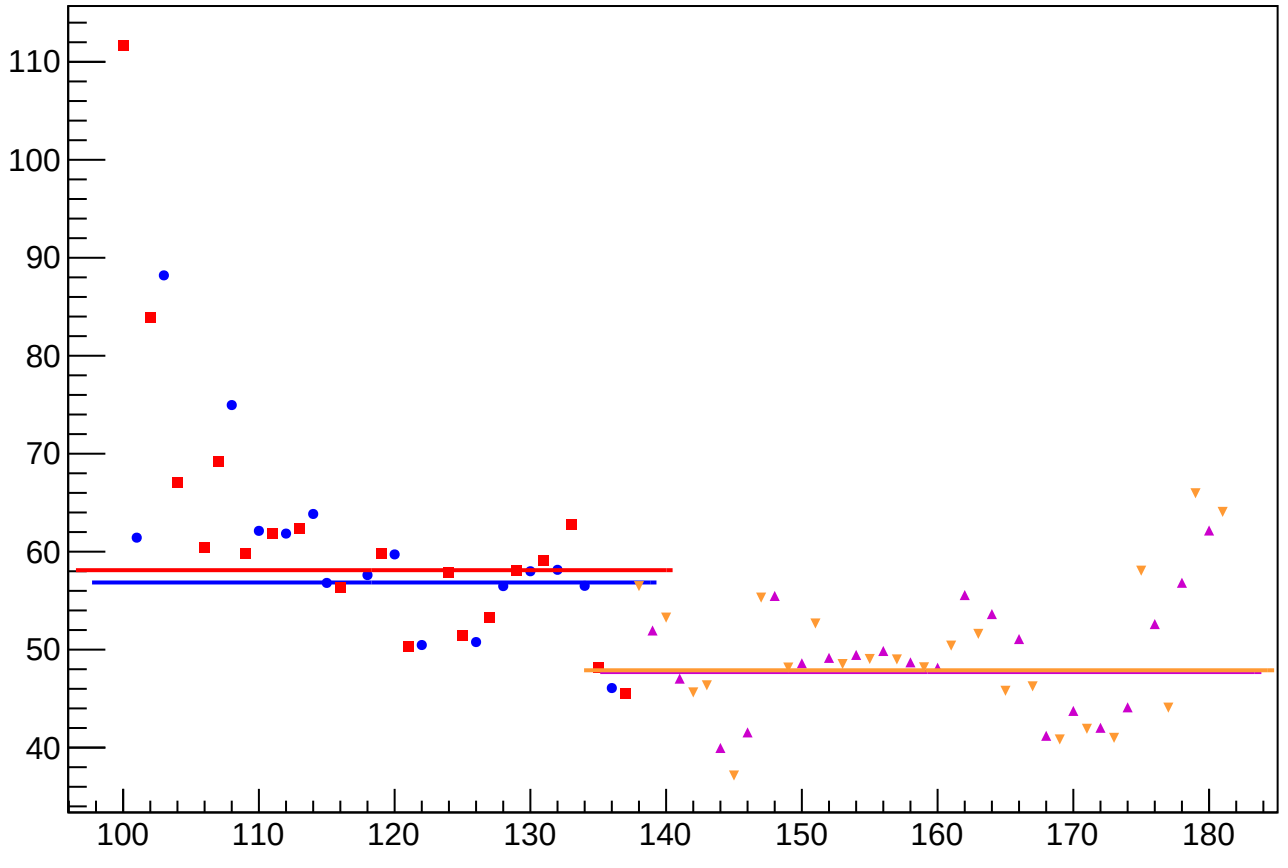
Left: -31.790+/-8.121 $\chi^2$/NDF: 55.8/43

Right: 45.064+/-15.240 $\chi^2$/NDF: 37.3/34

In: -0.628+/-10.228 $\chi^2$/NDF:54.1/36

Out: -28.460+/-10.047 $\chi^2$/NDF:55.0/41

All: -14.792+/-7.167 $\chi^2$/NDF: 112.9/78




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341605.0/15

Left Out: 47.893+/-0.008 $\chi^2$/NDF:666195.0/22

Right Out: 58.111+/-0.015 $\chi^2$/NDF: 312938.5/18

Left In: 47.711+/-0.008 $\chi^2$/NDF:453329.7/20

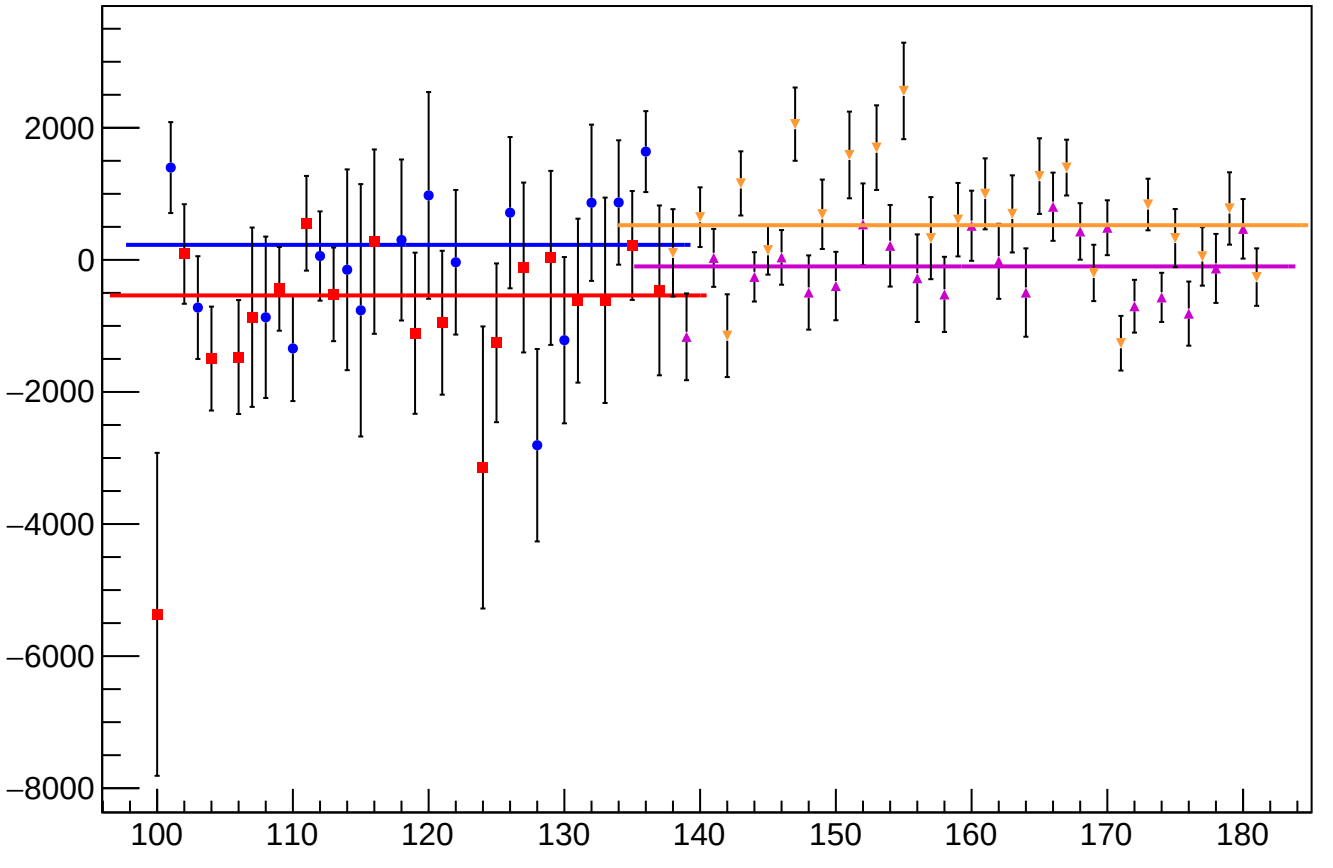
Left: 47.804+/-0.006 $\chi^2$/NDF: 1119774.1/43

Right: 57.478+/-0.011 $\chi^2$/NDF: 657942.0/34

In: 49.785+/-0.007 $\chi^2$/NDF:1075251.6/36

Out: 50.097+/-0.007 $\chi^2$/NDF:1329152.8/41

All: 49.944+/-0.005 $\chi^2$/NDF: 2405350.2/78




Right In: 227.547+/-241.227 $\chi^2$/NDF: 21.6/15

Left Out: 525.188+/-104.029 $\chi^2$/NDF:65.7/22

Right Out: -538.117+/-228.754 $\chi^2$/NDF: 13.3/18

Left In: -99.069+/-106.483 $\chi^2$/NDF:21.7/20

Left: 220.334+/-74.412 $\chi^2$/NDF: 104.9/43

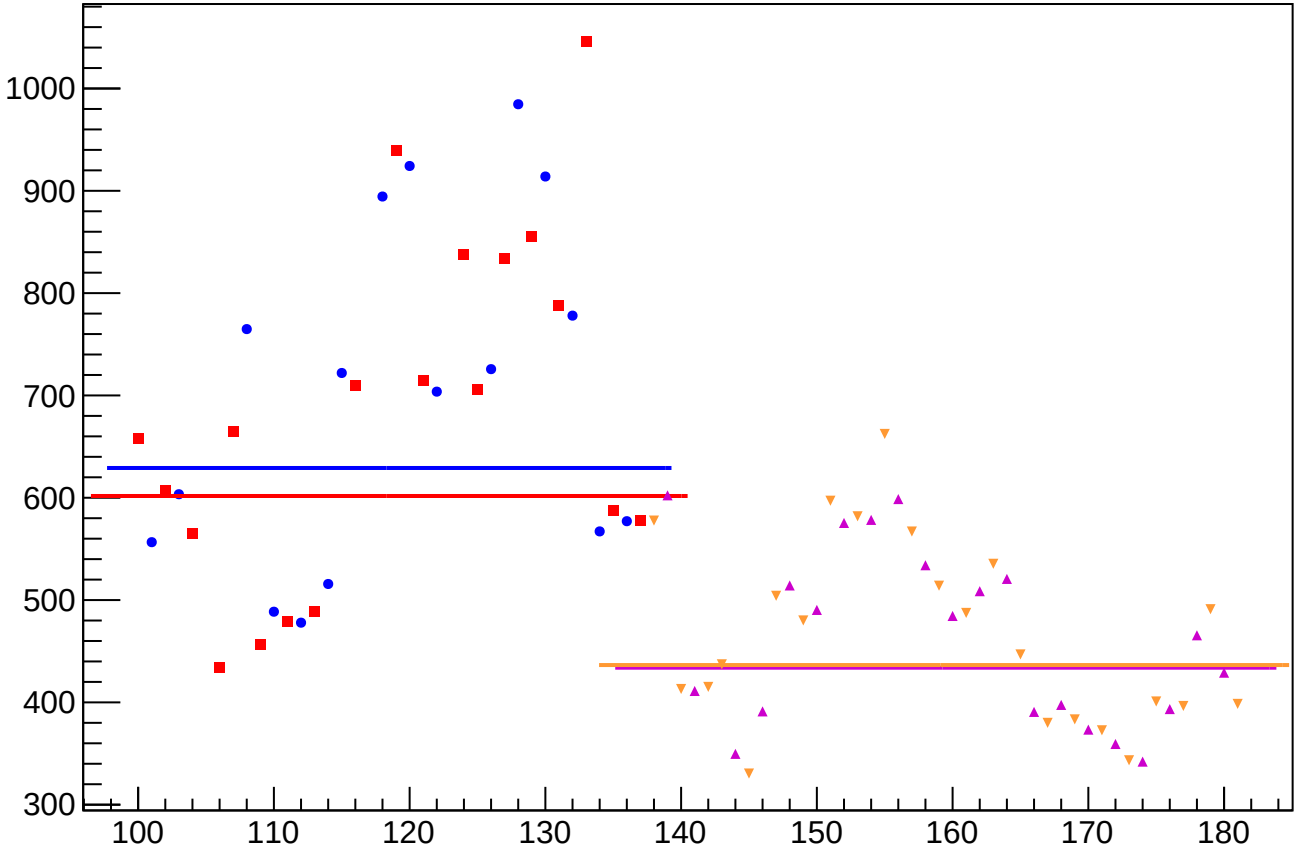
Right: -175.590+/-165.988 $\chi^2$/NDF: 40.3/34

In: -45.805+/-97.414 $\chi^2$/NDF:44.9/36

Out: 342.969+/-94.697 $\chi^2$/NDF:96.9/41

All: 154.080+/-67.901 $\chi^2$/NDF: 150.0/78

asym_sam_15_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 629.101+/-0.171 $\chi^2$/NDF: 692716.0/15

Left Out: 436.488+/-0.074 $\chi^2$/NDF:1216149.8/22

Right Out: 601.721+/-0.162 $\chi^2$/NDF: 874042.1/18

Left In: 433.891+/-0.075 $\chi^2$/NDF:1093885.7/20

Left: 435.220+/-0.053 $\chi^2$/NDF: 2310644.4/43

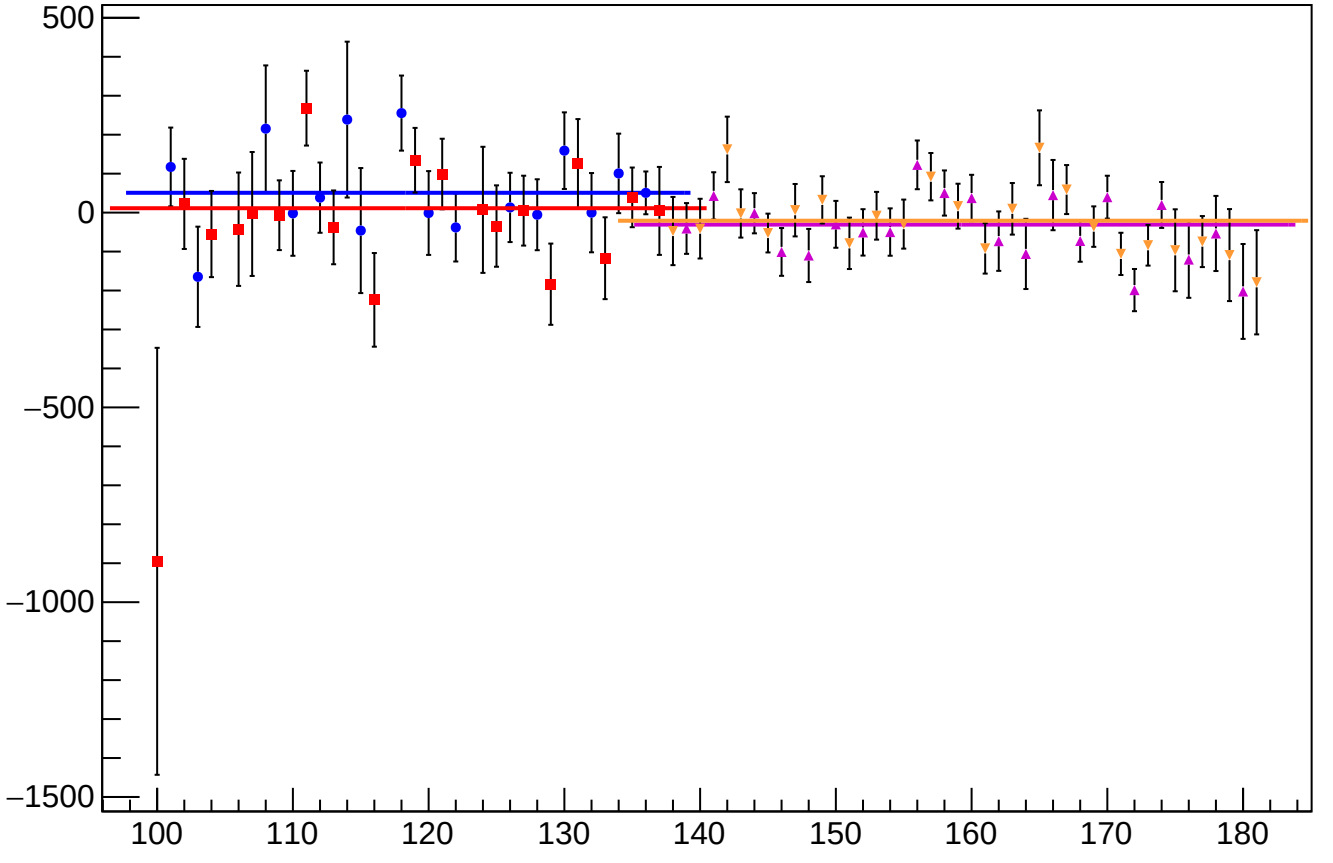
Right: 614.684+/-0.117 $\chi^2$/NDF: 1580324.3/34

In: 465.725+/-0.069 $\chi^2$/NDF:2882743.6/36

Out: 464.804+/-0.067 $\chi^2$/NDF:2954845.9/41

All: 465.252+/-0.048 $\chi^2$/NDF: 5837681.4/78

# dit_asym_sam_15_48_dd_mean vs Slug, Sign Corrected




Right In: 50.861+/-24.492 $\chi^2$/NDF: 13.8/15

Left Out: -20.872+/-13.768 $\chi^2$/NDF:25.0/22

Right Out: 11.261+/-24.324 $\chi^2$/NDF: 24.0/18

Left In: -30.769+/-14.097 $\chi^2$/NDF:31.2/20

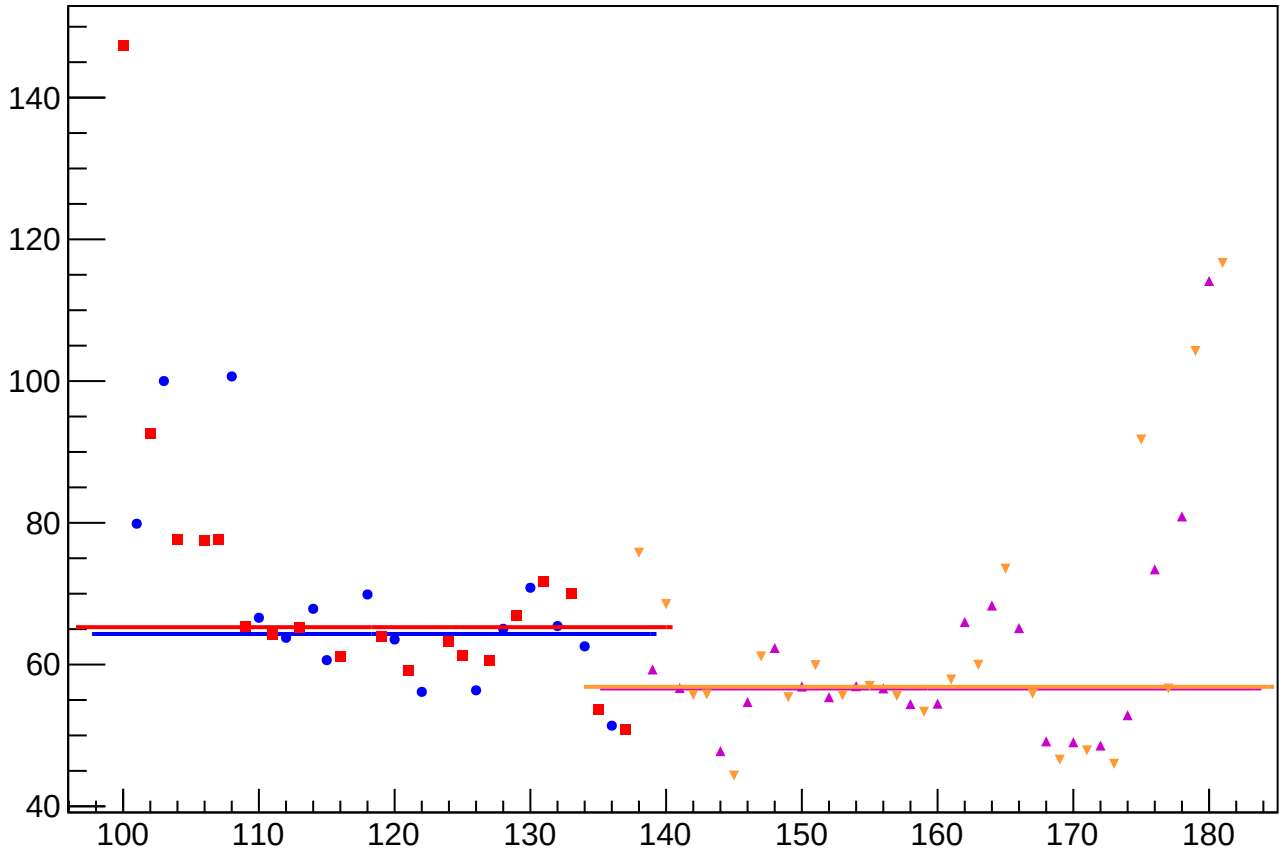
Left: -25.704+/-9.850 $\chi^2$/NDF: 56.5/43

Right: 30.925+/-17.259 $\chi^2$/NDF: 39.1/34

In: -10.456+/-12.218 $\chi^2$/NDF:53.3/36

Out: -13.075+/-11.982 $\chi^2$/NDF:50.4/41

All: -11.791+/-8.555 $\chi^2$/NDF: 103.7/78




Right In: 64.317+/-0.017 $\chi^2$/NDF: 464952.4/15

Left Out: 56.861+/-0.010 $\chi^2$/NDF:1516793.8/22

Right Out: 65.277+/-0.017 $\chi^2$/NDF: 319136.6/18

Left In: 56.629+/-0.010 $\chi^2$/NDF:926760.2/20

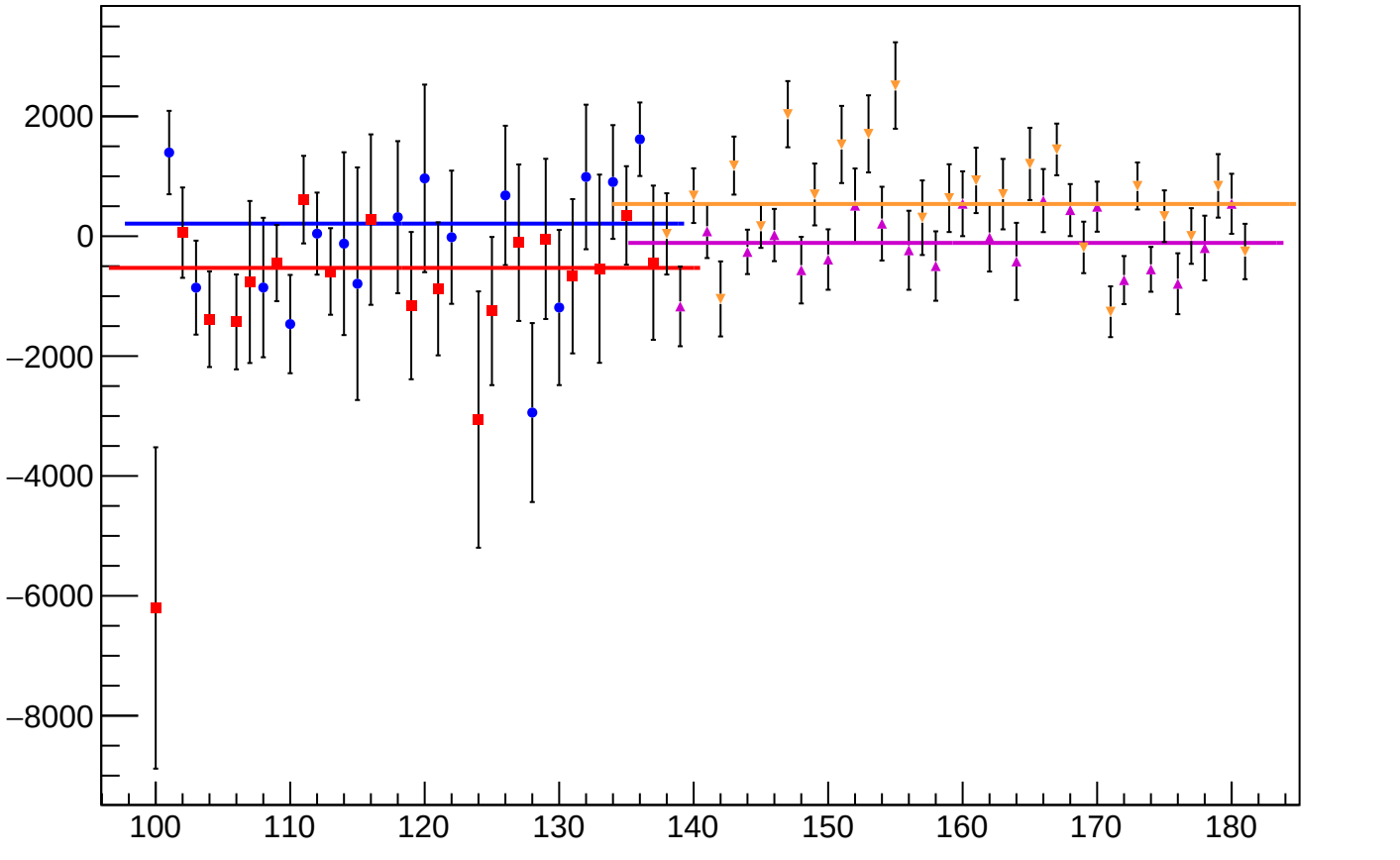
Left: 56.747+/-0.007 $\chi^2$/NDF: 2443831.4/43

Right: 64.800+/-0.012 $\chi^2$/NDF: 785637.7/34

In: 58.542+/-0.009 $\chi^2$/NDF:1539745.2/36

Out: 58.903+/-0.008 $\chi^2$/NDF:2017282.9/41

All: 58.726+/-0.006 $\chi^2$/NDF: 3557919.3/78




Right In: 210.018+/-243.798 $\chi^2$/NDF: 22.4/15

Left Out: 537.684+/-104.768 $\chi^2$/NDF:63.2/22

Right Out: -528.675+/-229.679 $\chi^2$/NDF: 13.8/18

Left In: -111.740+/-107.985 $\chi^2$/NDF:20.2/20

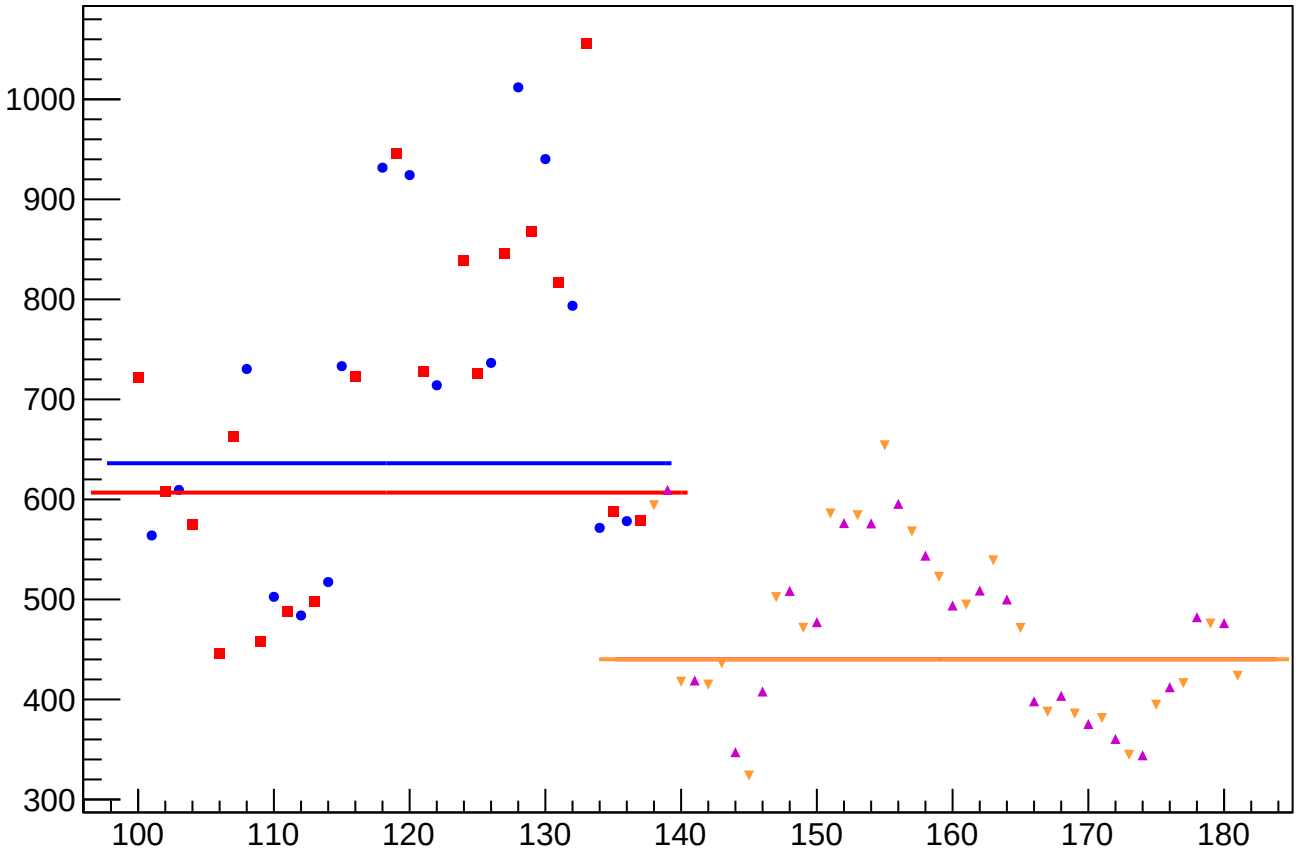
Left: 222.791+/-75.194 $\chi^2$/NDF: 102.0/43

Right: -181.337+/-167.176 $\chi^2$/NDF: 41.1/34

In: -58.969+/-98.734 $\chi^2$/NDF:44.1/36

Out: 354.020+/-95.319 $\chi^2$/NDF:94.9/41

All: 154.790+/-68.576 $\chi^2$/NDF: 148.0/78




Right In: 636.144+/-0.172 $\chi^2$/NDF: 705237.7/15

Left Out: 440.150+/-0.074 $\chi^2$/NDF:1196443.8/22

Right Out: 606.803+/-0.162 $\chi^2$/NDF: 893878.7/18

Left In: 440.193+/-0.076 $\chi^2$/NDF:1061396.6/20

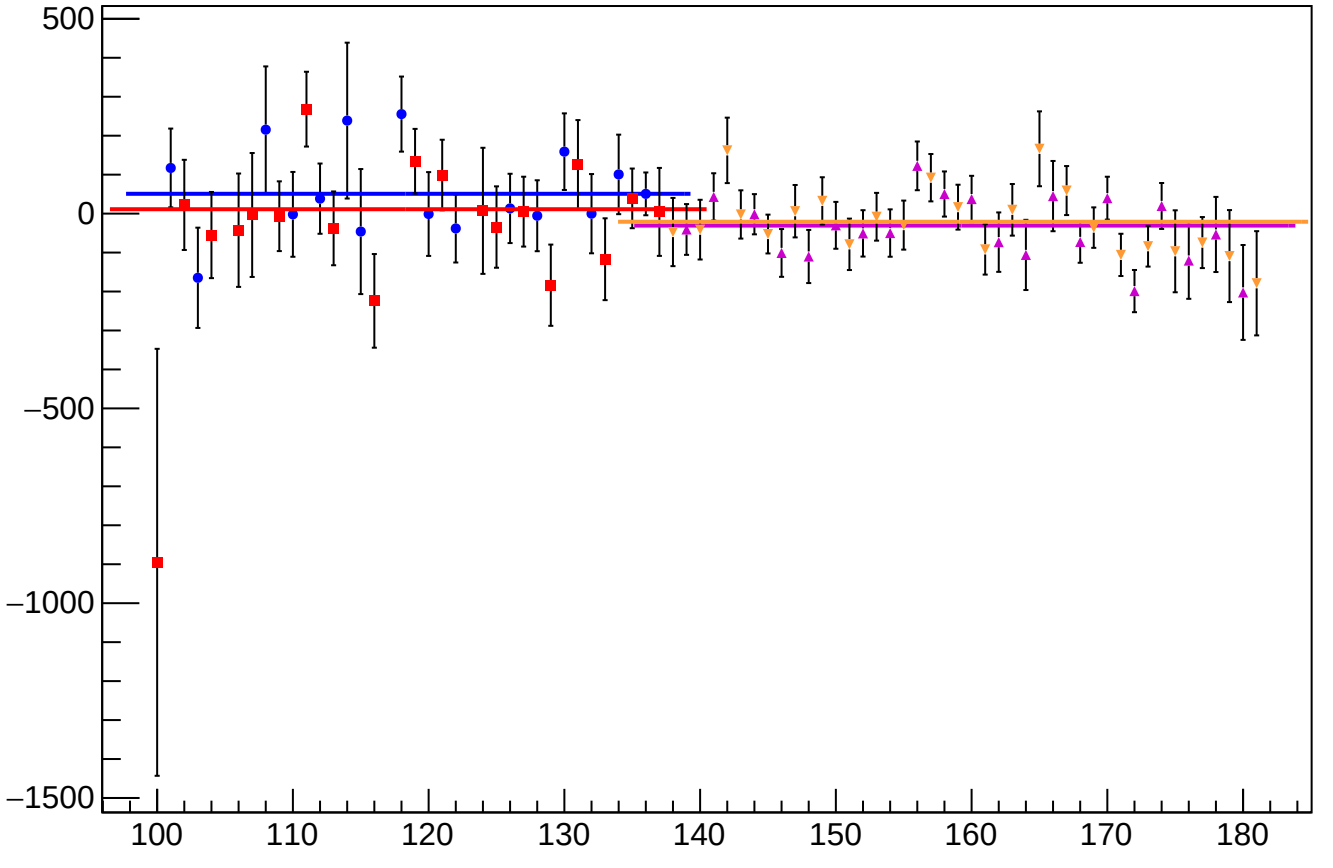
Left: 440.171+/-0.053 $\chi^2$/NDF: 2257840.5/43

Right: 620.599+/-0.118 $\chi^2$/NDF: 1614464.0/34

In: 472.331+/-0.070 $\chi^2$/NDF:2846746.1/36

Out: 468.853+/-0.067 $\chi^2$/NDF:2961933.8/41

All: 470.531+/-0.048 $\chi^2$/NDF: 5809964.2/78




Right In: 50.859+/-24.492 $\chi^2$/NDF: 13.8/15

Left Out: -20.872+/-13.768 $\chi^2$/NDF:25.0/22

Right Out: 11.261+/-24.324 $\chi^2$/NDF: 24.0/18

Left In: -30.768+/-14.097 $\chi^2$/NDF:31.2/20

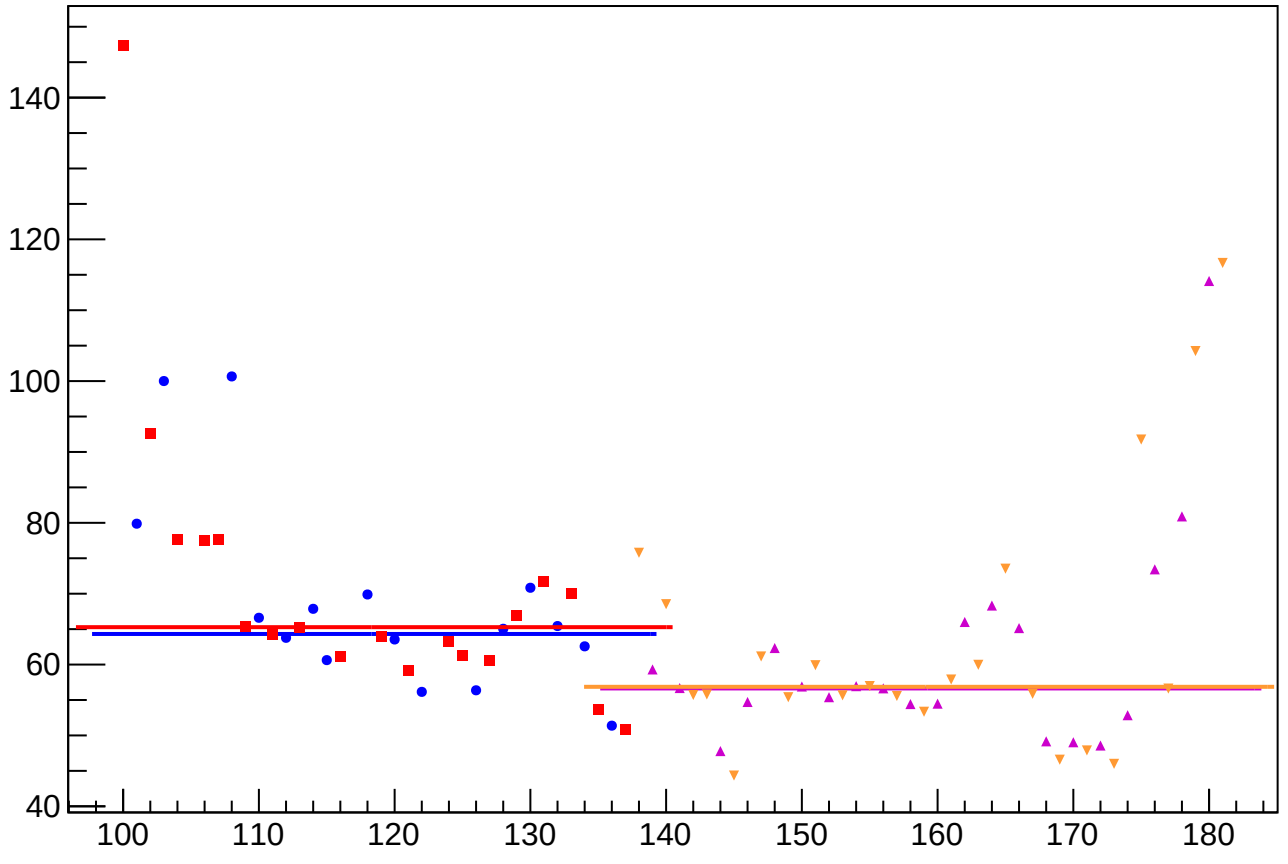
Left: -25.704+/-9.850 $\chi^2$/NDF: 56.4/43

Right: 30.924+/-17.259 $\chi^2$/NDF: 39.1/34

In: -10.457+/-12.218 $\chi^2$/NDF:53.3/36

Out: -13.075+/-11.982 $\chi^2$/NDF:50.4/41

All: -11.792+/-8.555 $\chi^2$/NDF: 103.7/78




Right In: 64.317+/-0.017 $\chi^2$/NDF: 464950.5/15

Left Out: 56.861+/-0.010 $\chi^2$/NDF:1516792.9/22

Right Out: 65.277+/-0.017 $\chi^2$/NDF: 319140.2/18

Left In: 56.629+/-0.010 $\chi^2$/NDF:926741.4/20

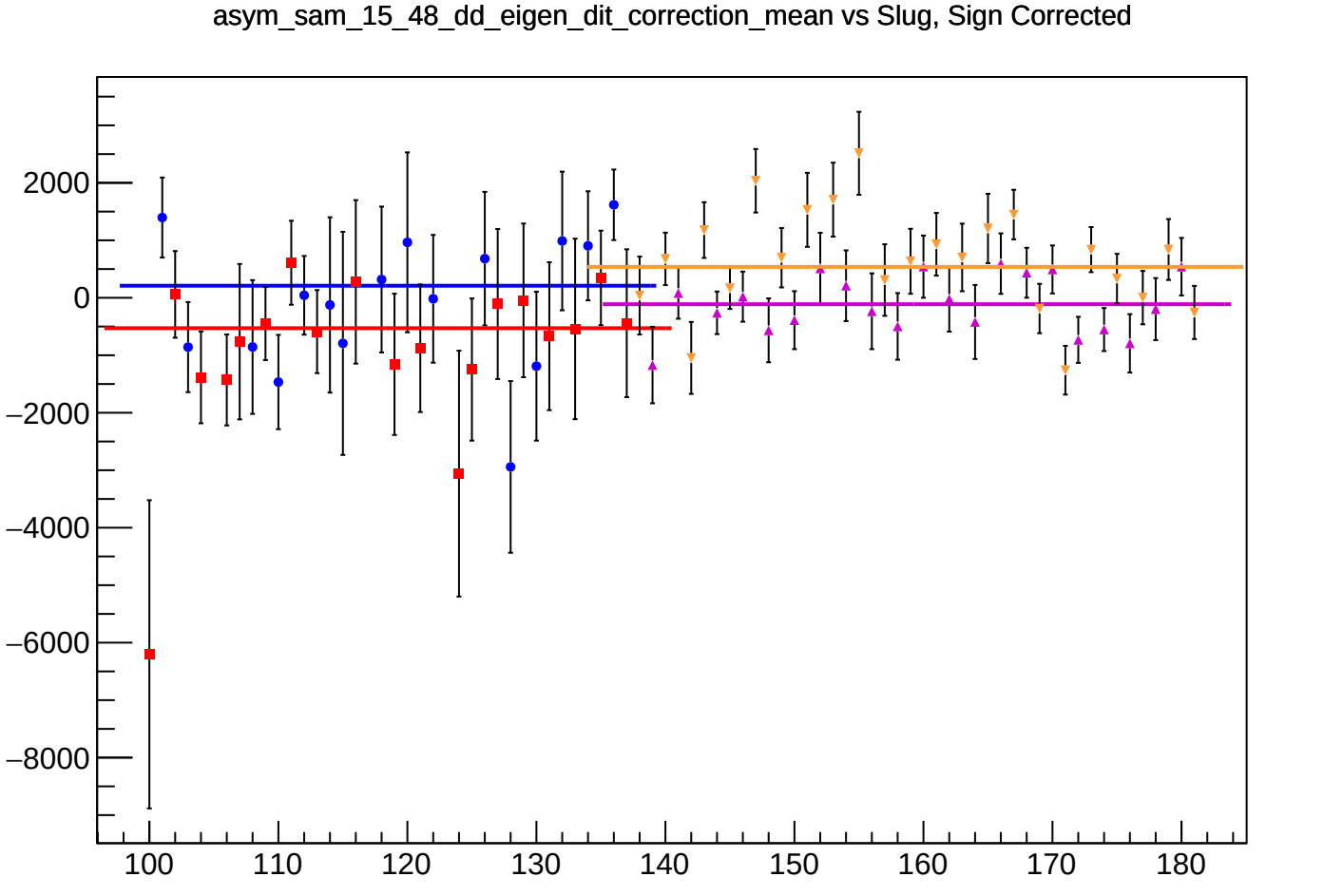
Left: 56.748+/-0.007 $\chi^2$/NDF: 2443811.9/43

Right: 64.800+/-0.012 $\chi^2$/NDF: 785639.3/34

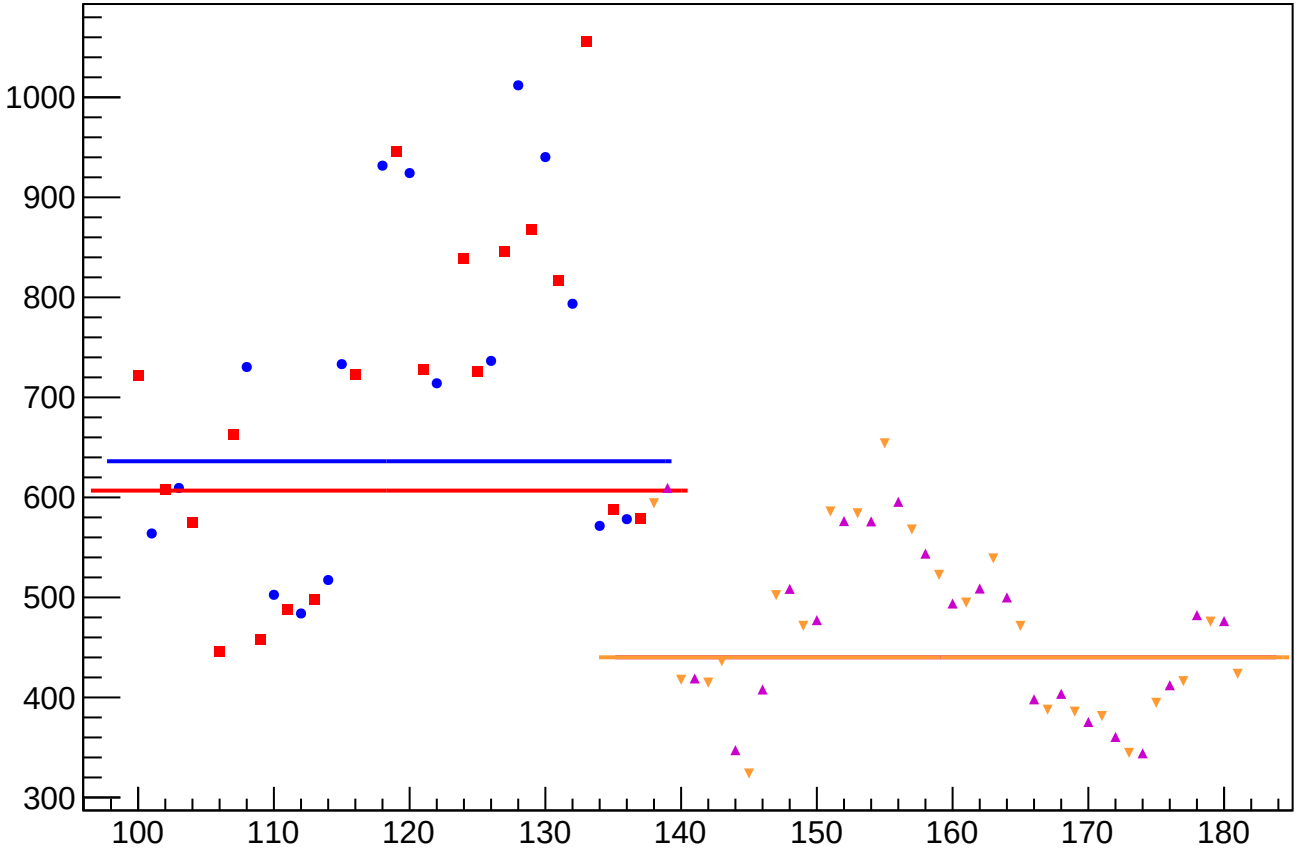
In: 58.542+/-0.009 $\chi^2$/NDF:1539719.4/36

Out: 58.903+/-0.008 $\chi^2$/NDF:2017274.4/41

All: 58.726+/-0.006 $\chi^2$/NDF: 3557885.3/78


asym_sam_15_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
2000
0
−2000
−4000
−6000
−8000
100
110
120
130
140
150
160
170
180
Right In: 210.017+/-243.798 χ²/NDF: 22.4/15
Left Out: 537.683+/-104.767 χ²/NDF:63.2/22
Right Out: -528.674+/-229.678 χ²/NDF: 13.8/18
Left In: -111.740+/-107.985 χ²/NDF:20.2/20
Left: 222.791+/-75.193 χ²/NDF: 102.0/43
Right: -181.337+/-167.176 χ²/NDF: 41.1/34
In: -58.969+/-98.733 χ²/NDF:44.1/36
Out: 354.020+/-95.319 χ²/NDF:94.9/41
All: 154.790+/-68.576 χ²/NDF: 148.0/78

asym_sam_15_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 636.144+/-0.172 $\chi^2$/NDF: 705241.1/15

Left Out: 440.149+/-0.074 $\chi^2$/NDF:1196451.7/22

Right Out: 606.802+/-0.162 $\chi^2$/NDF: 893880.8/18

Left In: 440.192+/-0.076 $\chi^2$/NDF:1061403.0/20

Left: 440.170+/-0.053 $\chi^2$/NDF: 2257854.9/43

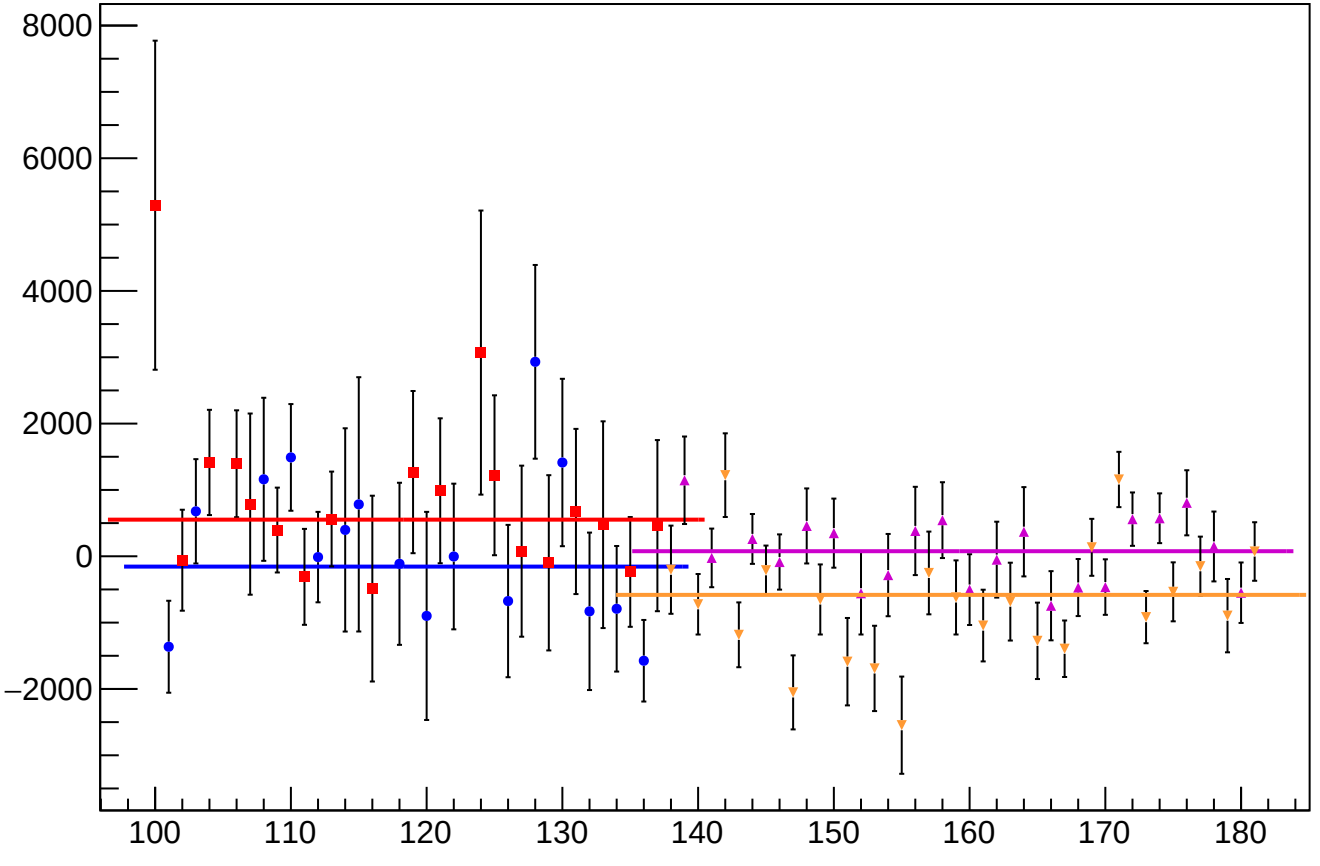
Right: 620.599+/-0.118 $\chi^2$/NDF: 1614469.5/34

In: 472.330+/-0.070 $\chi^2$/NDF:2846764.6/36

Out: 468.852+/-0.067 $\chi^2$/NDF:2961950.0/41

All: 470.530+/-0.048 $\chi^2$/NDF: 5809998.8/78

# asym_sam_15_48_dd_mean vs Slug, Sign Corrected




Right In: -155.651+/-242.595 $\chi^2$/NDF: 22.5/15

Left Out: -581.814+/-104.742 $\chi^2$/NDF:61.1/22

Right Out: 552.176+/-228.890 $\chi^2$/NDF: 12.1/18

Left In: 76.381+/-107.200 $\chi^2$/NDF:20.6/20

Left: -260.347+/-74.918 $\chi^2$/NDF: 101.0/43

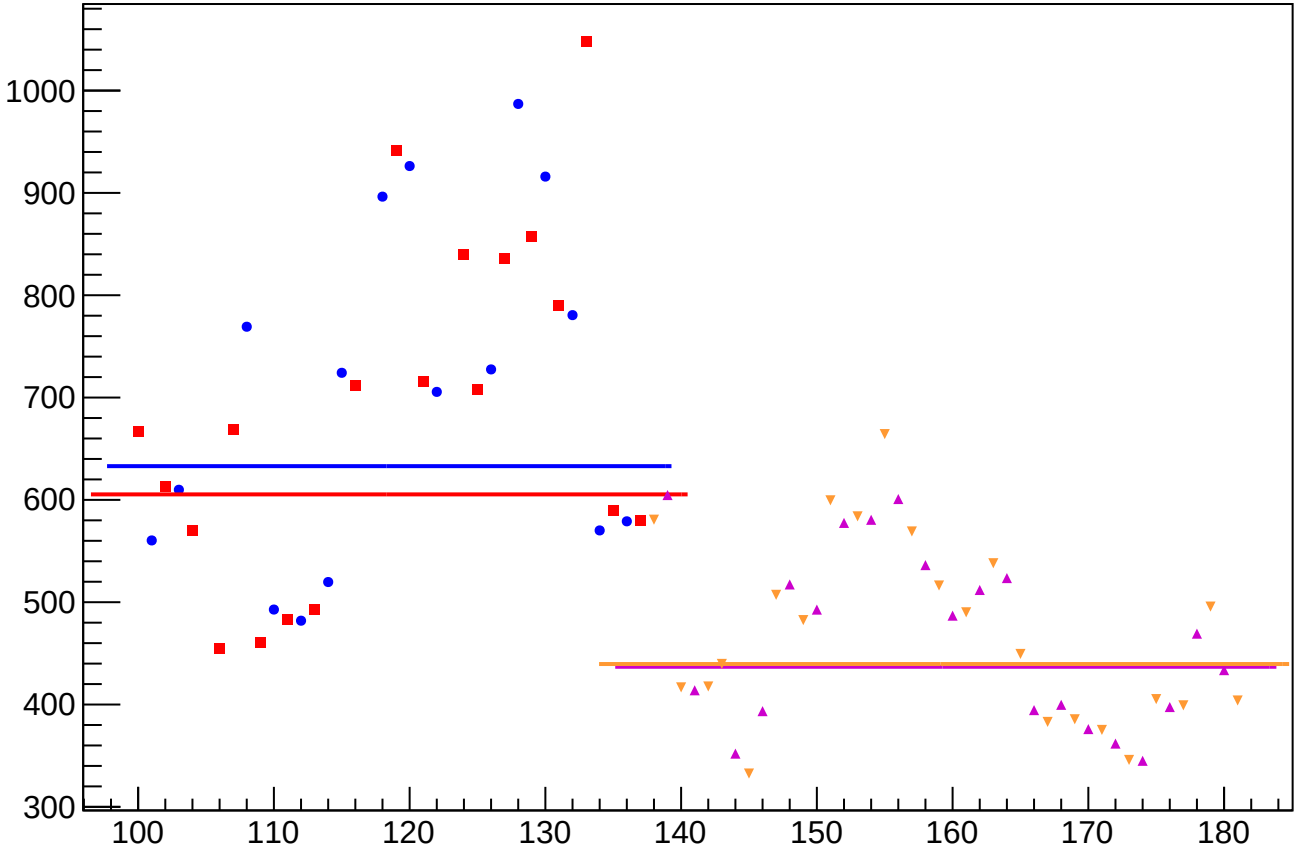
Right: 218.820+/-166.484 $\chi^2$/NDF: 39.1/34

In: 38.475+/-98.053 $\chi^2$/NDF:43.8/36

Out: -385.465+/-95.244 $\chi^2$/NDF:93.5/41

All: -179.656+/-68.319 $\chi^2$/NDF: 147.0/78

# asym_sam_15_48_dd_rms vs Slug, Sign Corrected




Right In: 632.966+/-0.172 $\chi^2$/NDF: 681138.4/15

Left Out: 439.587+/-0.074 $\chi^2$/NDF:1200760.1/22

Right Out: 605.373+/-0.162 $\chi^2$/NDF: 853994.0/18

Left In: 436.911+/-0.076 $\chi^2$/NDF:1079244.7/20

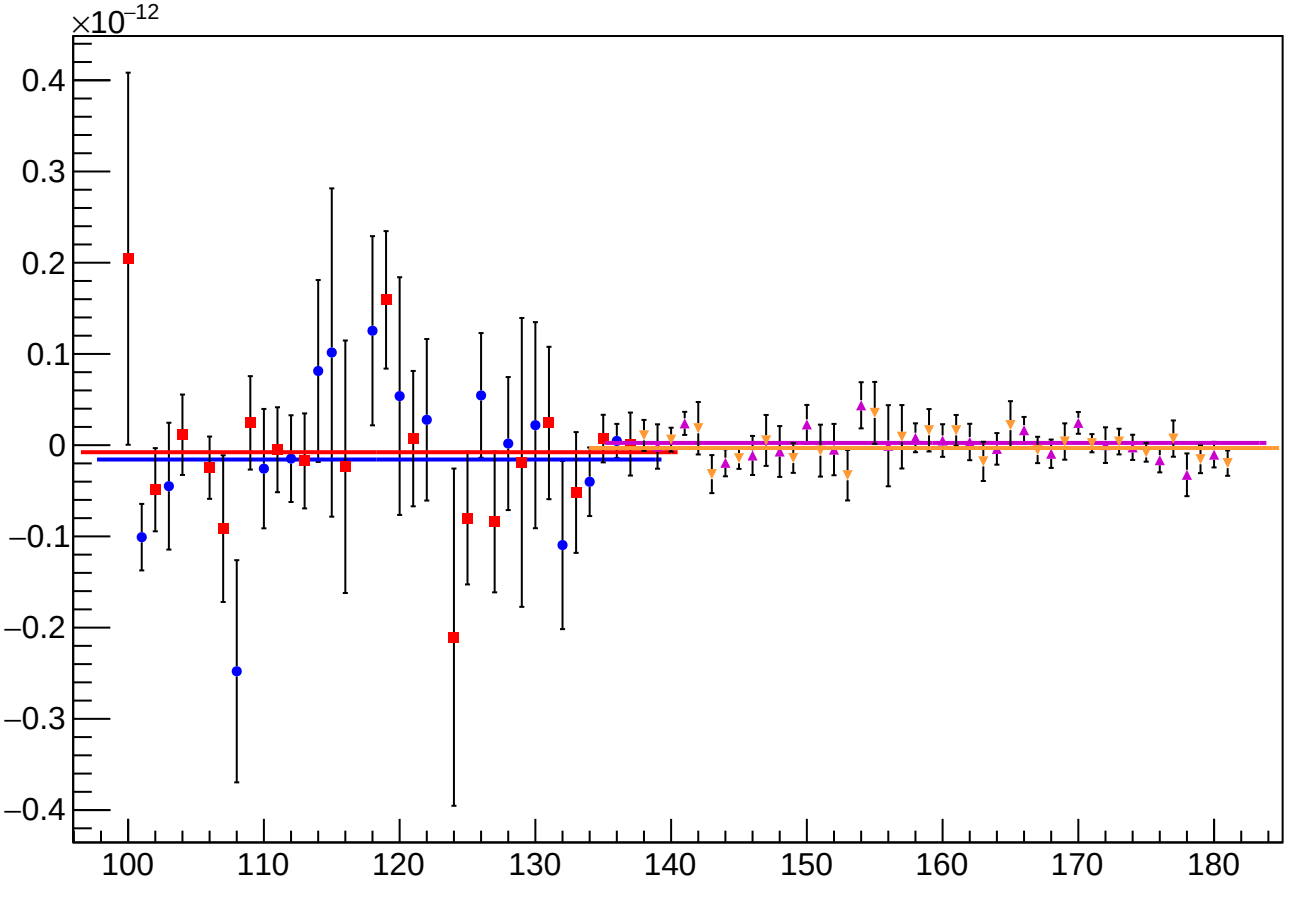
Left: 438.280+/-0.053 $\chi^2$/NDF: 2280642.4/43

Right: 618.368+/-0.118 $\chi^2$/NDF: 1548821.0/34

In: 468.940+/-0.069 $\chi^2$/NDF:2853226.9/36

Out: 468.293+/-0.067 $\chi^2$/NDF:2922313.6/41

All: 468.607+/-0.048 $\chi^2$/NDF: 5775585.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:14.3/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.6/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 35.0/43

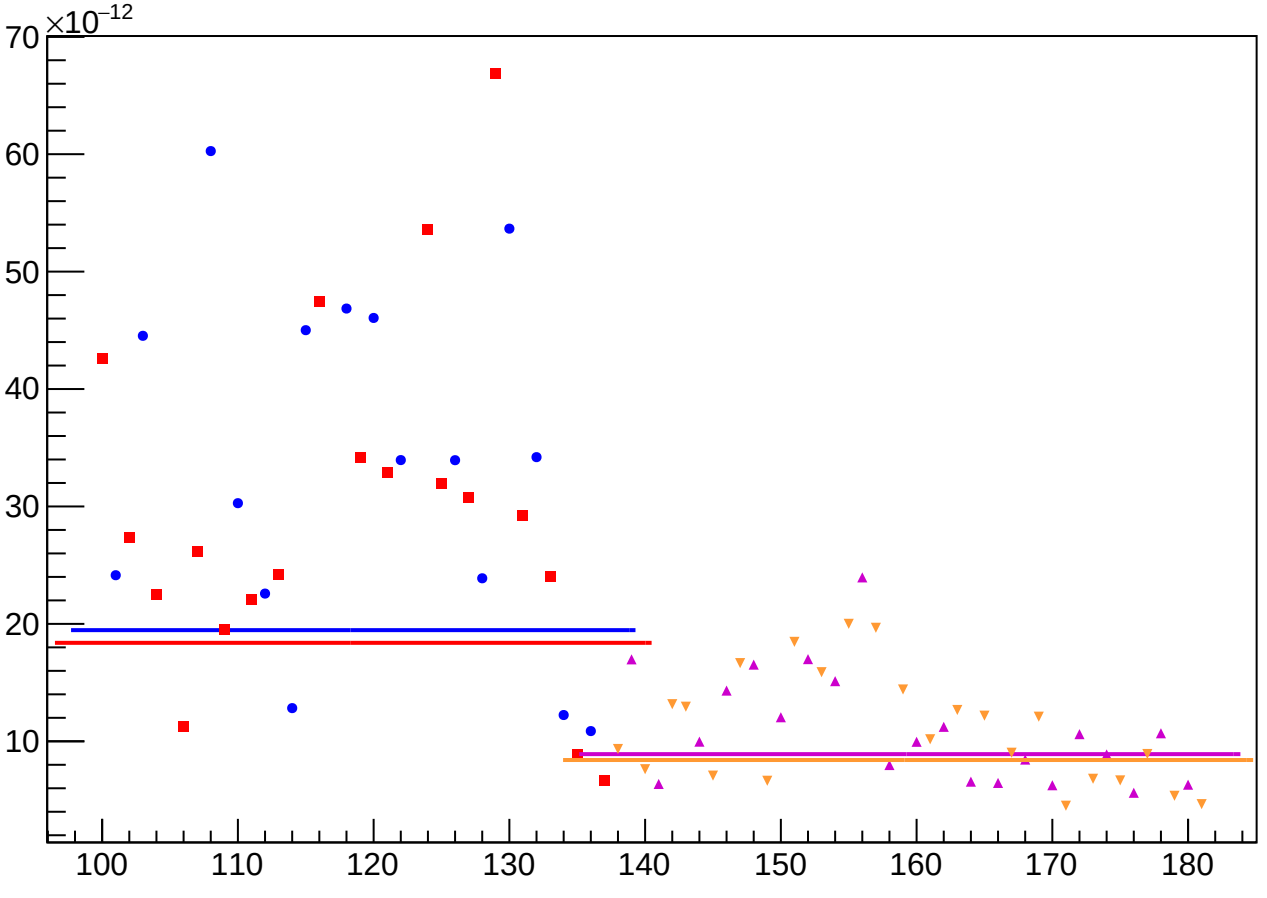
Right: -0.000+/-0.000 $\chi^2$/NDF: 30.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:38.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:27.4/41

All: -0.000+/-0.000 $\chi^2$/NDF: 66.6/78

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1735565.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2189464.9/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1444777.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1598563.0/20

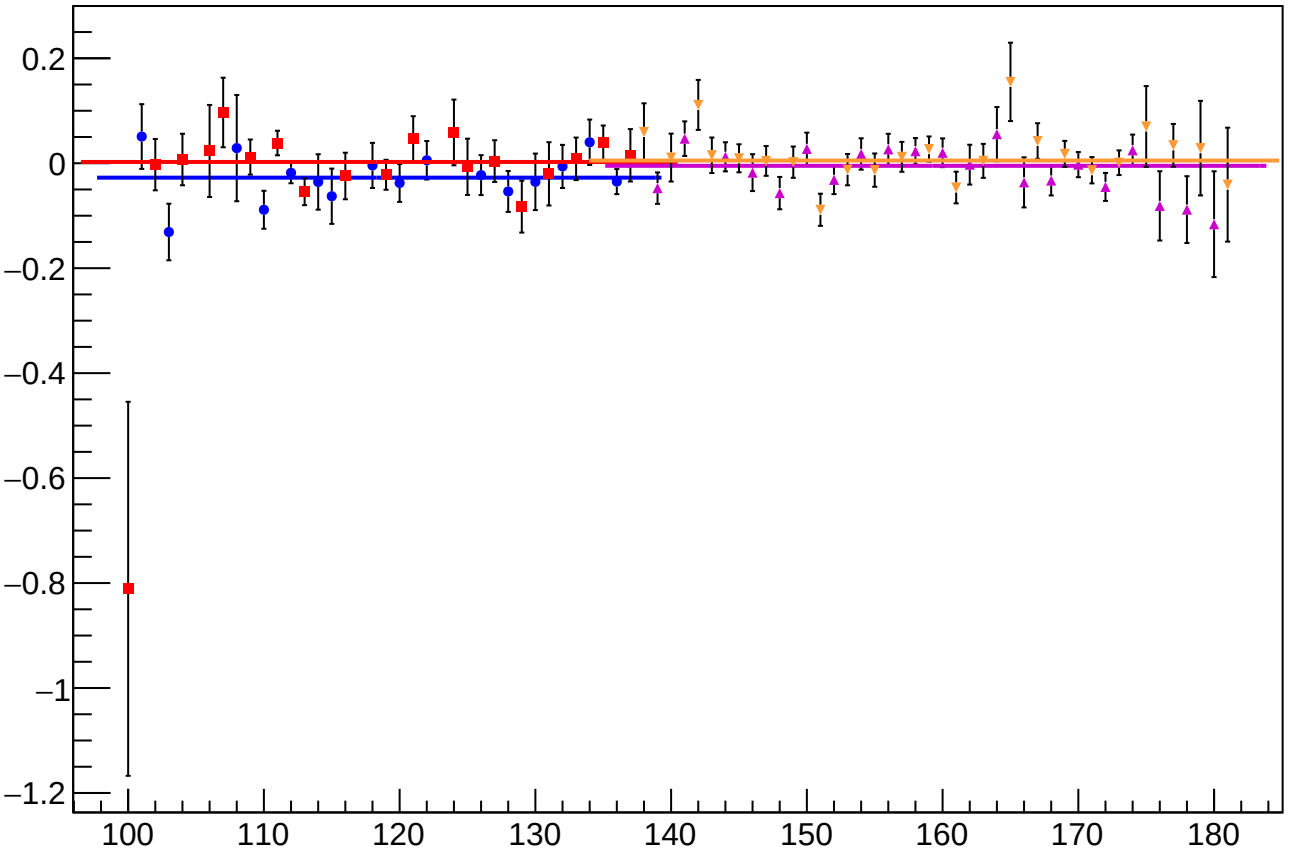
Left: 0.000+/-0.000 $\chi^2$/NDF: 3807153.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 3187950.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:4622067.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4878936.3/41

All: 0.000+/-0.000 $\chi^2$/NDF: 9531431.8/78




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:27.5/22

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: -0.005+/-0.007 $\chi^2$/NDF:24.0/20

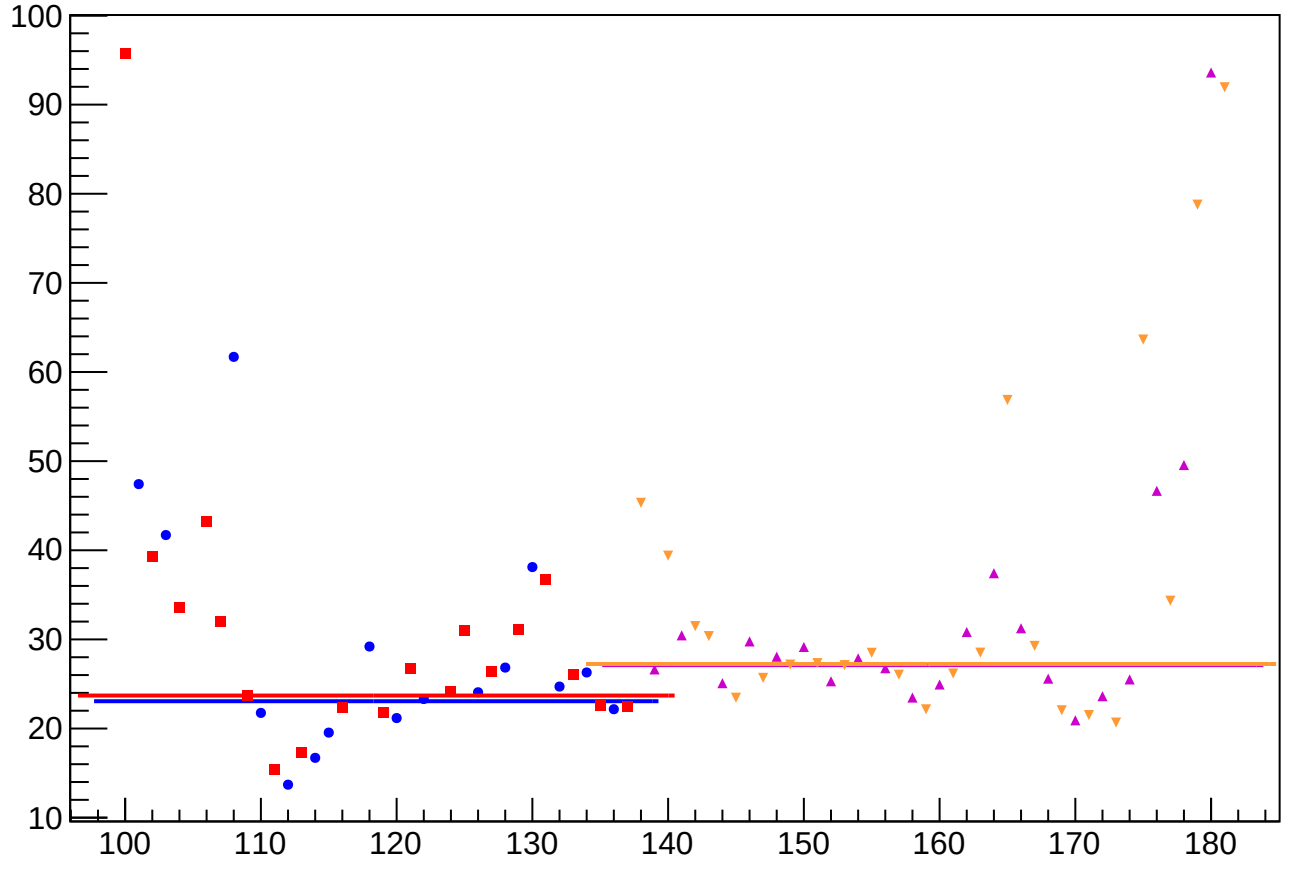
Left: 0.000+/-0.005 $\chi^2$/NDF: 52.5/43

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.013+/-0.006 $\chi^2$/NDF:41.3/36

Out: 0.004+/-0.006 $\chi^2$/NDF:49.6/41

All: -0.004+/-0.004 $\chi^2$/NDF: 95.7/78




Right In: 23.066+/-0.007 $\chi^2$/NDF: 1564478.6/15

Left Out: 27.244+/-0.005 $\chi^2$/NDF:3087326.8/22

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088494.2/18

Left In: 27.114+/-0.005 $\chi^2$/NDF:1705307.6/20

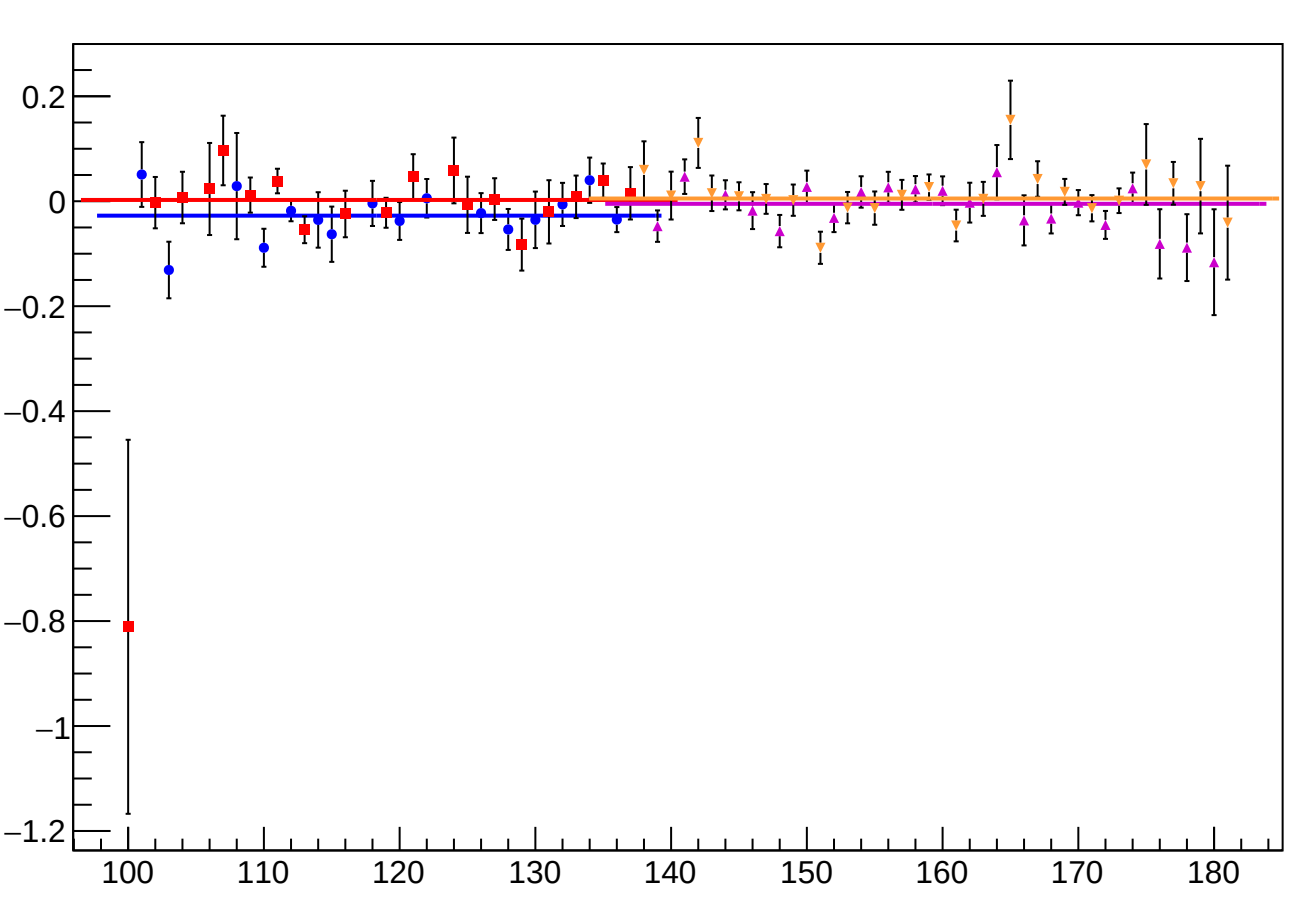
Left: 27.180+/-0.003 $\chi^2$/NDF: 4792980.1/43

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657617.1/34

In: 25.667+/-0.004 $\chi^2$/NDF:3508446.2/36

Out: 25.991+/-0.004 $\chi^2$/NDF:4363558.2/41

All: 25.831+/-0.003 $\chi^2$/NDF: 7875392.2/78




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:27.5/22

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: -0.005+/-0.007 $\chi^2$/NDF:24.0/20

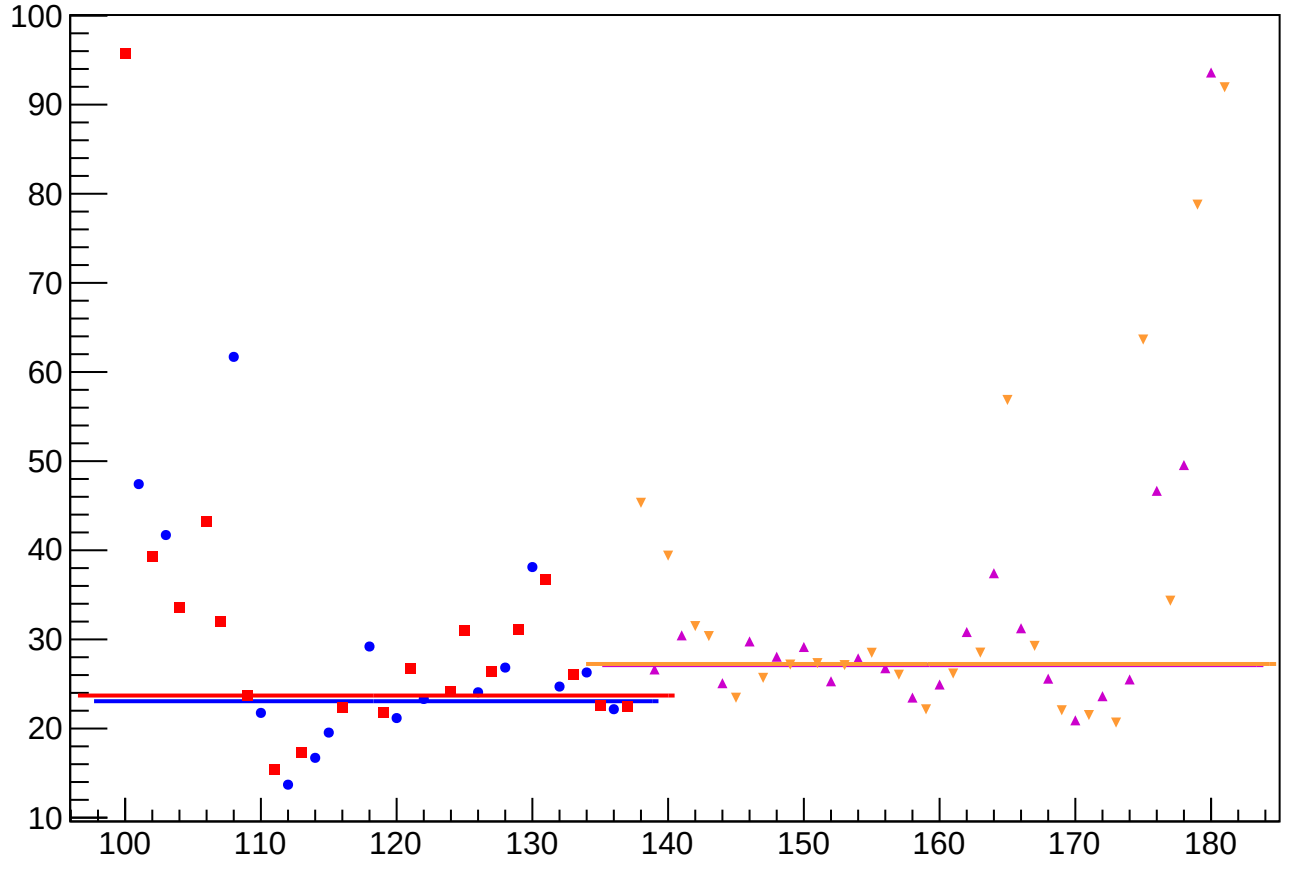
Left: 0.000+/-0.005 $\chi^2$/NDF: 52.5/43

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.013+/-0.006 $\chi^2$/NDF:41.3/36

Out: 0.004+/-0.006 $\chi^2$/NDF:49.6/41

All: -0.004+/-0.004 $\chi^2$/NDF: 95.7/78




Right In: 23.066+/-0.007 $\chi^2$/NDF: 1564478.6/15

Left Out: 27.244+/-0.005 $\chi^2$/NDF:3087326.8/22

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088494.2/18

Left In: 27.114+/-0.005 $\chi^2$/NDF:1705307.6/20

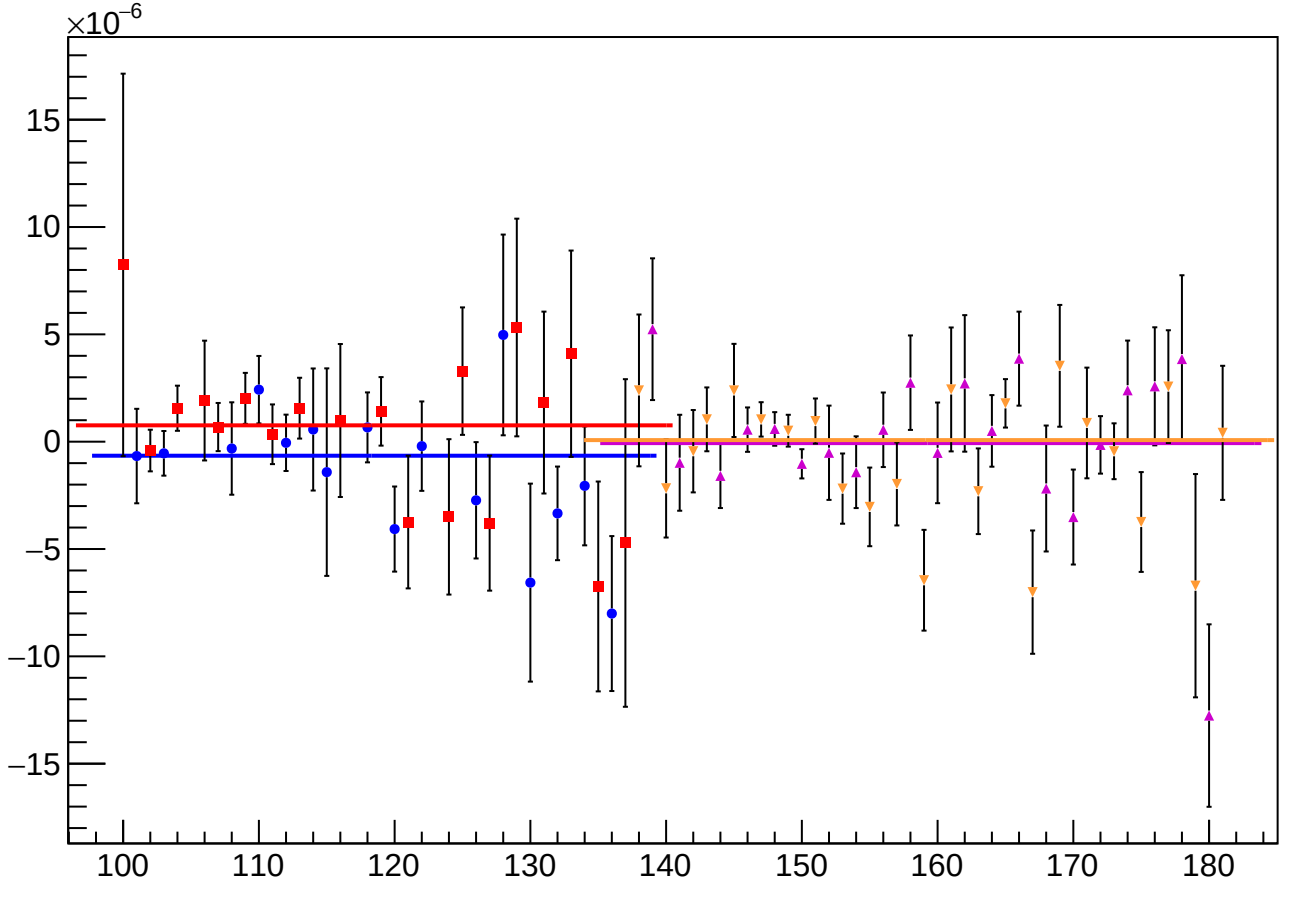
Left: 27.180+/-0.003 $\chi^2$/NDF: 4792980.1/43

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657617.1/34

In: 25.667+/-0.004 $\chi^2$/NDF:3508446.2/36

Out: 25.991+/-0.004 $\chi^2$/NDF:4363558.2/41

All: 25.831+/-0.003 $\chi^2$/NDF: 7875392.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:36.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:28.4/20

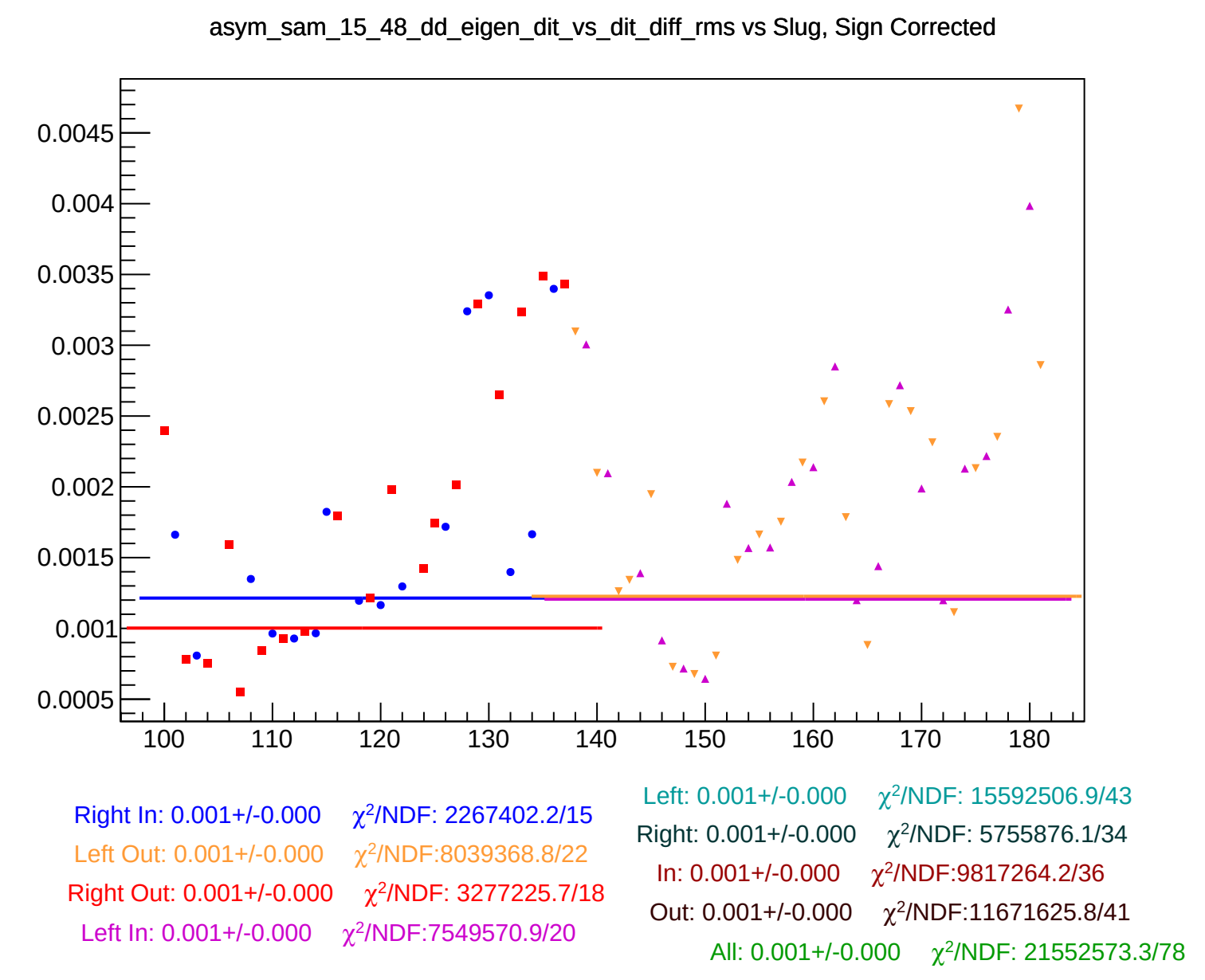
Left: 0.000+/-0.000 $\chi^2$/NDF: 65.2/43

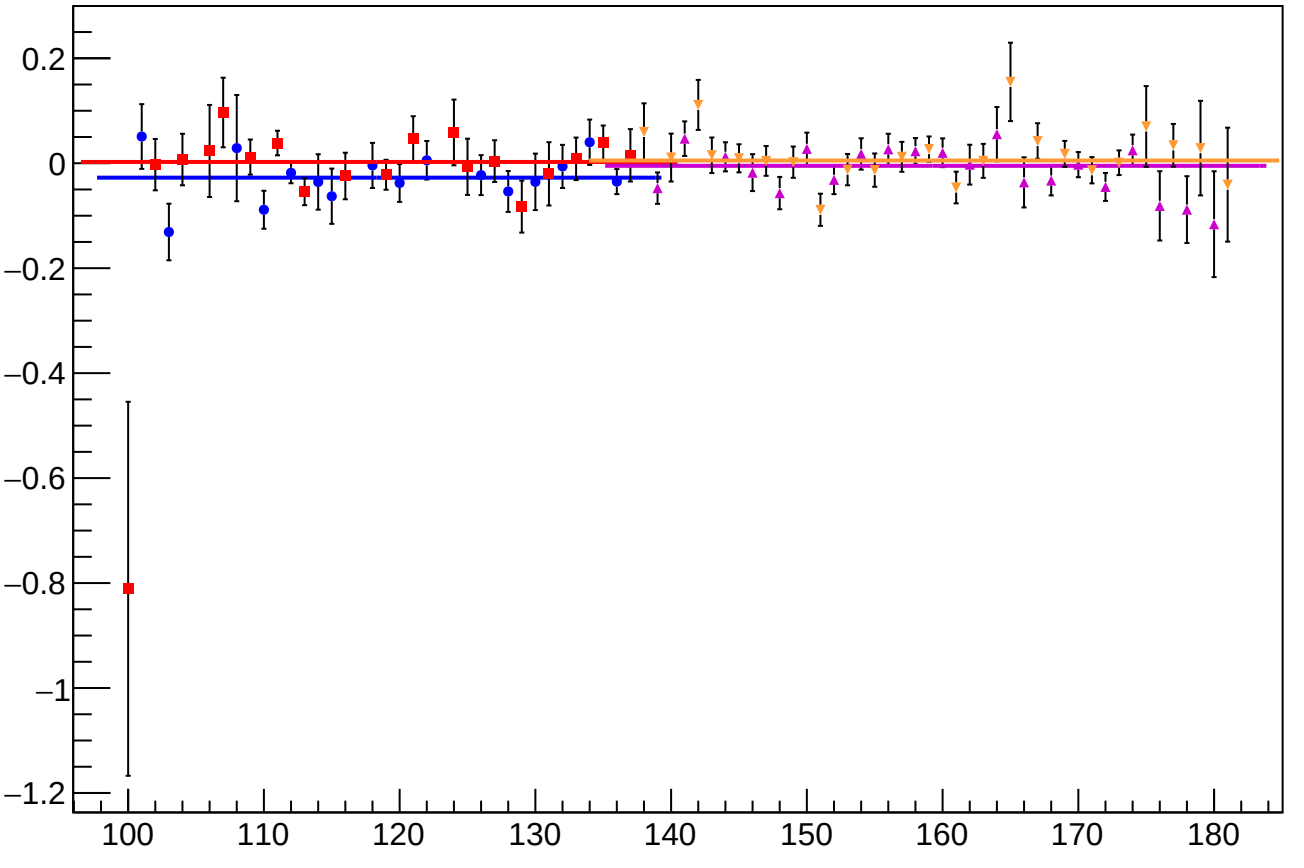
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:46.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:53.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 102.8/78


asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
100
110
120
130
140
150
160
170
180
Right In: 0.001+/-0.000 χ²/NDF: 2267402.2/15
Left Out: 0.001+/-0.000 χ²/NDF:8039368.8/22
Right Out: 0.001+/-0.000 χ²/NDF: 3277225.7/18
Left In: 0.001+/-0.000 χ²/NDF:7549570.9/20
Left: 0.001+/-0.000 χ²/NDF: 15592506.9/43
Right: 0.001+/-0.000 χ²/NDF: 5755876.1/34
In: 0.001+/-0.000 χ²/NDF:9817264.2/36
Out: 0.001+/-0.000 χ²/NDF:11671625.8/41
All: 0.001+/-0.000 χ²/NDF: 21552573.3/78




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:27.5/22

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: -0.005+/-0.007 $\chi^2$/NDF:24.0/20

Left: 0.000+/-0.005 $\chi^2$/NDF: 52.5/43

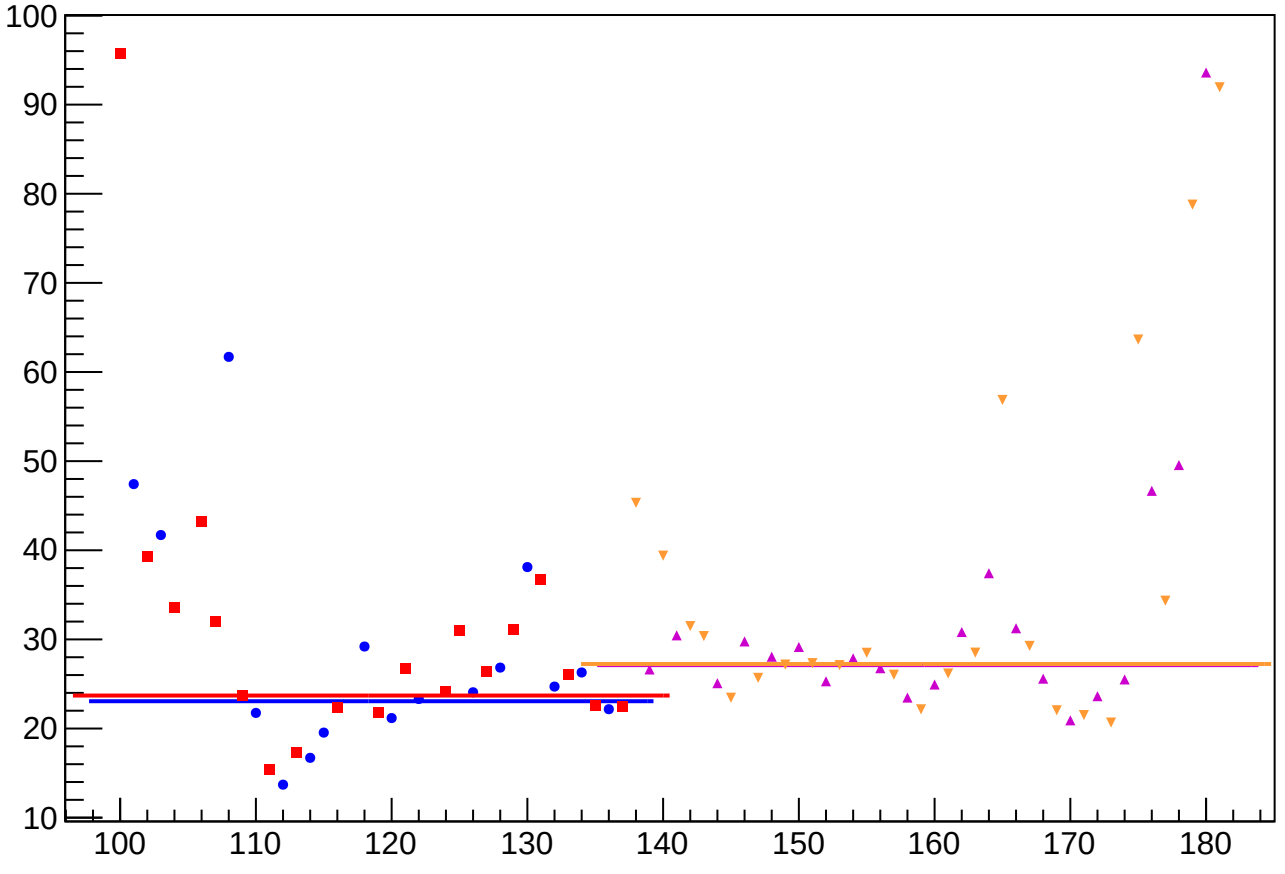
Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.013+/-0.006 $\chi^2$/NDF:41.3/36

Out: 0.004+/-0.006 $\chi^2$/NDF:49.6/41

All: -0.004+/-0.004 $\chi^2$/NDF: 95.7/78

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.065+/-0.007 $\chi^2$/NDF: 1564493.0/15

Left Out: 27.244+/-0.005 $\chi^2$/NDF:3087277.2/22

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088531.8/18

Left In: 27.115+/-0.005 $\chi^2$/NDF:1705276.1/20

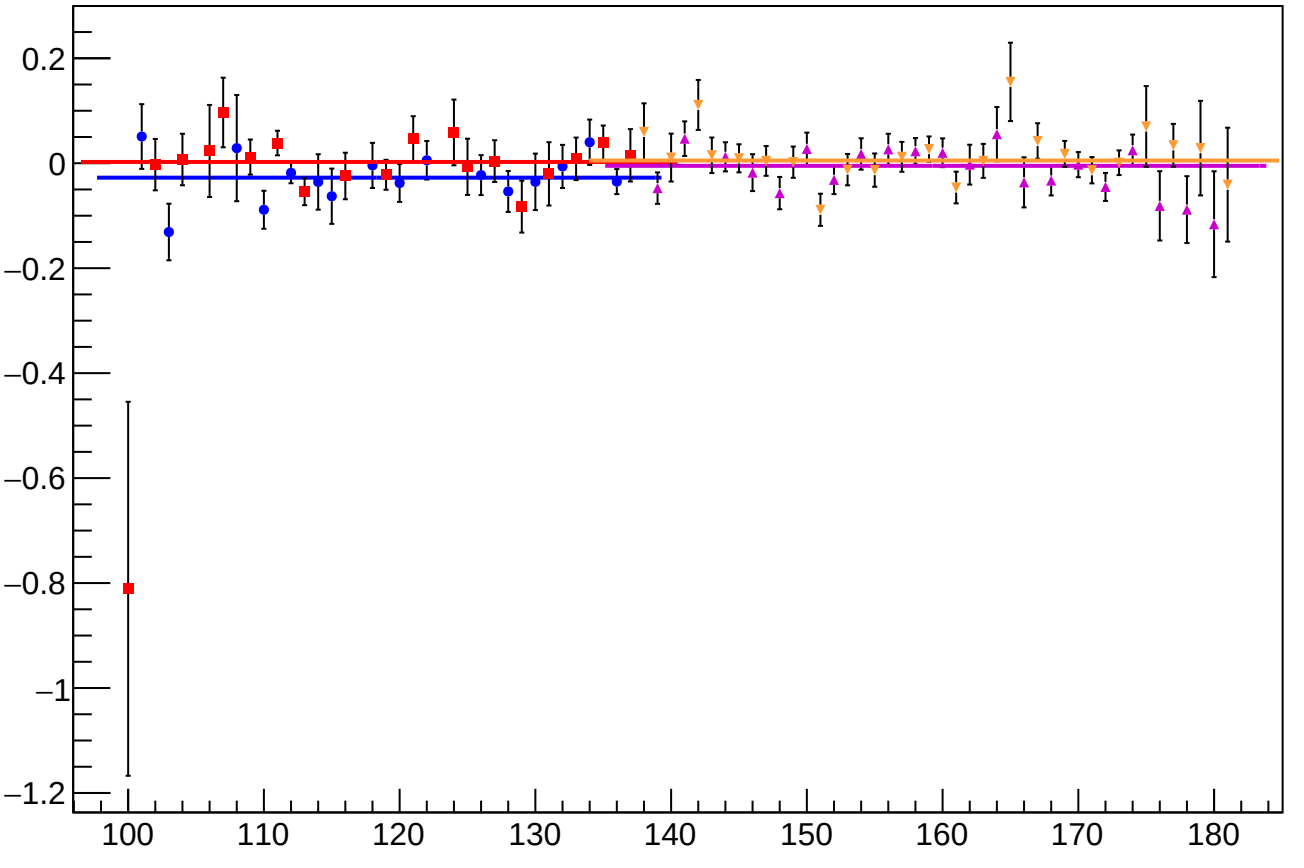
Left: 27.180+/-0.003 $\chi^2$/NDF: 4792899.7/43

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657668.5/34

In: 25.667+/-0.004 $\chi^2$/NDF:3508476.1/36

Out: 25.991+/-0.004 $\chi^2$/NDF:4363606.6/41

All: 25.831+/-0.003 $\chi^2$/NDF: 7875471.9/78




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:27.5/22

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: -0.005+/-0.007 $\chi^2$/NDF:24.0/20

Left: 0.000+/-0.005 $\chi^2$/NDF: 52.5/43

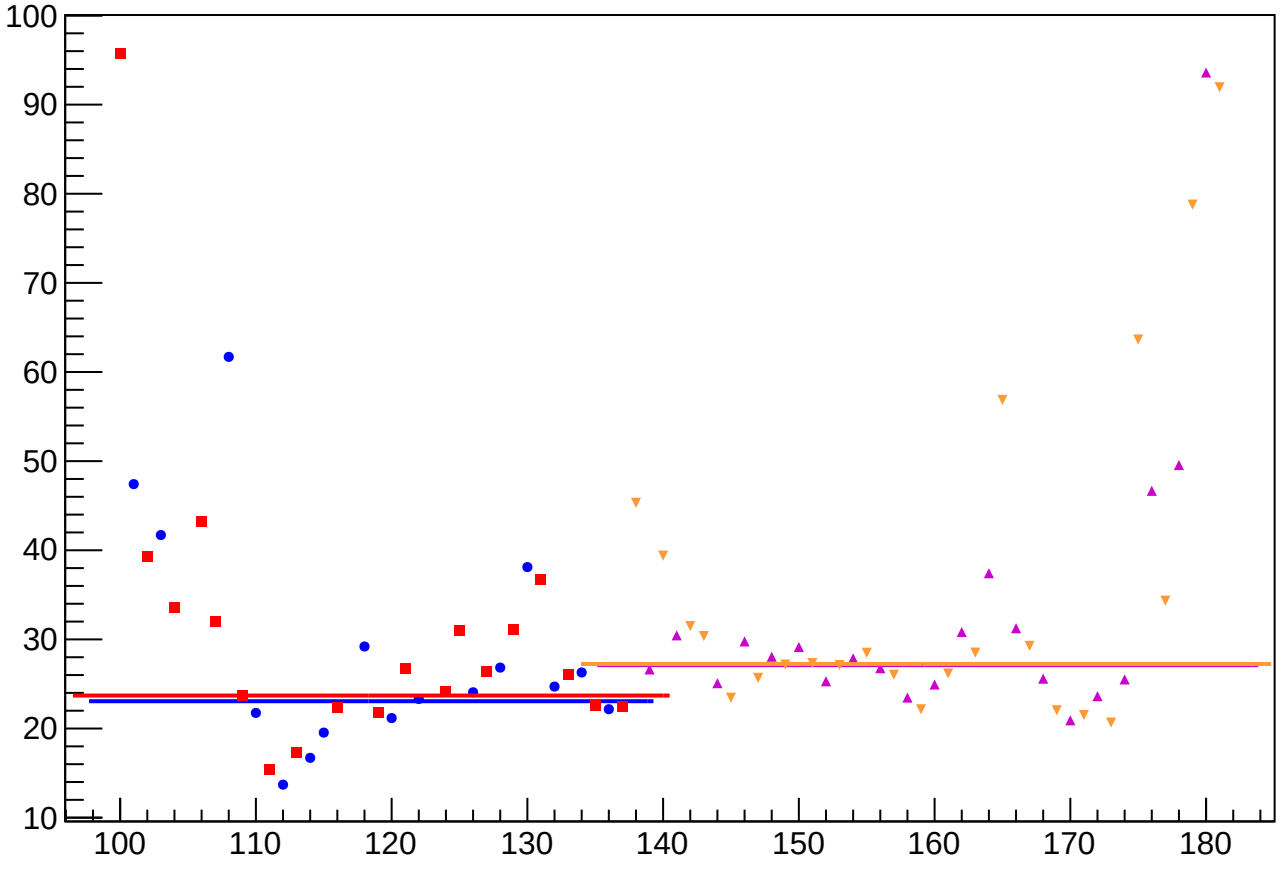
Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.013+/-0.006 $\chi^2$/NDF:41.3/36

Out: 0.004+/-0.006 $\chi^2$/NDF:49.6/41

All: -0.004+/-0.004 $\chi^2$/NDF: 95.7/78

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.065+/-0.007 $\chi^2$/NDF: 1564493.0/15

Left Out: 27.244+/-0.005 $\chi^2$/NDF:3087277.2/22

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088531.8/18

Left In: 27.115+/-0.005 $\chi^2$/NDF:1705276.1/20

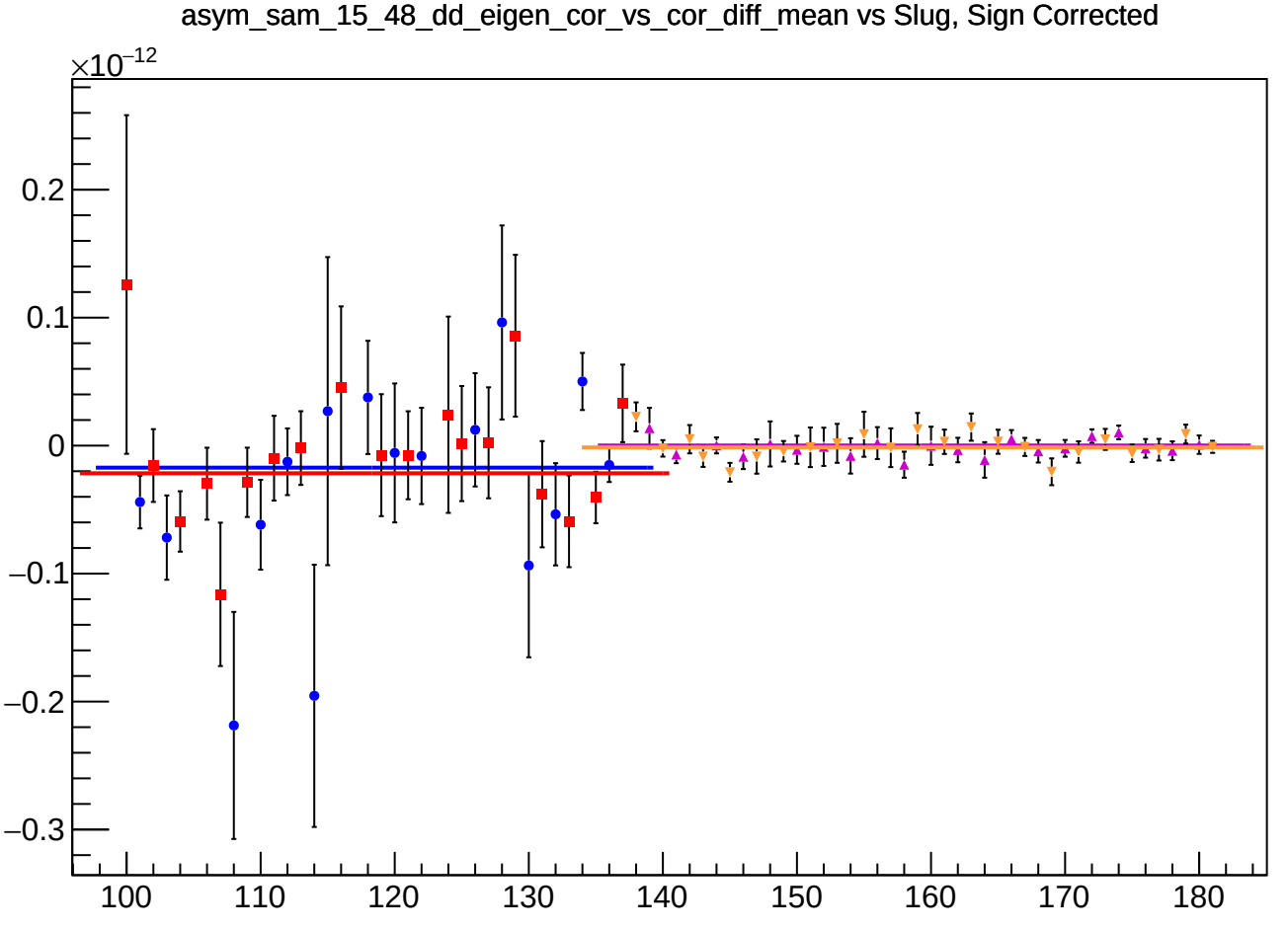
Left: 27.180+/-0.003 $\chi^2$/NDF: 4792899.7/43

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657668.5/34

In: 25.667+/-0.004 $\chi^2$/NDF:3508476.1/36

Out: 25.991+/-0.004 $\chi^2$/NDF:4363606.6/41

All: 25.831+/-0.003 $\chi^2$/NDF: 7875471.9/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 29.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:23.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:12.9/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 37.1/43

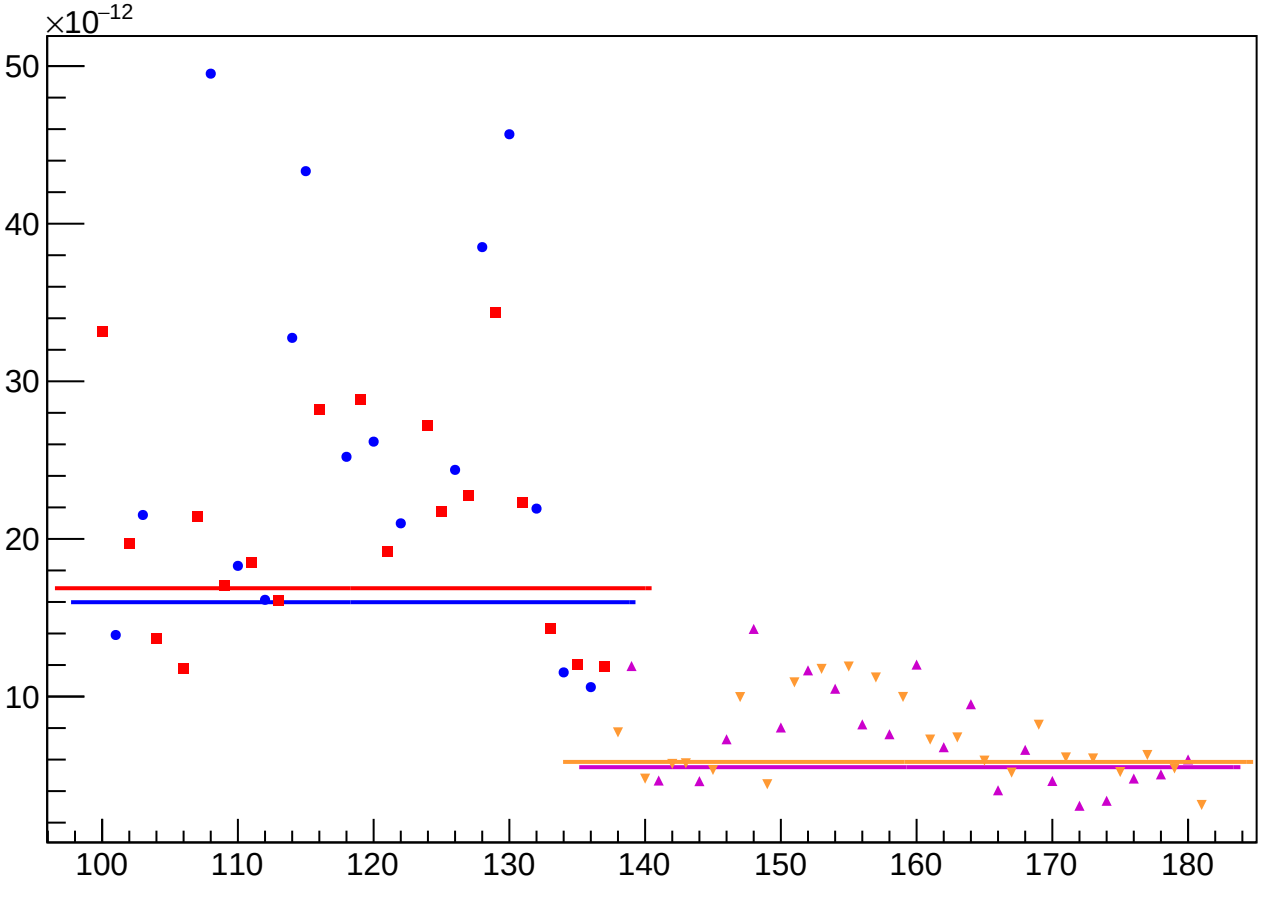
Right: -0.000+/-0.000 $\chi^2$/NDF: 48.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:47.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:48.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 96.0/78

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1764617.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2491392.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 835680.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3351016.9/20

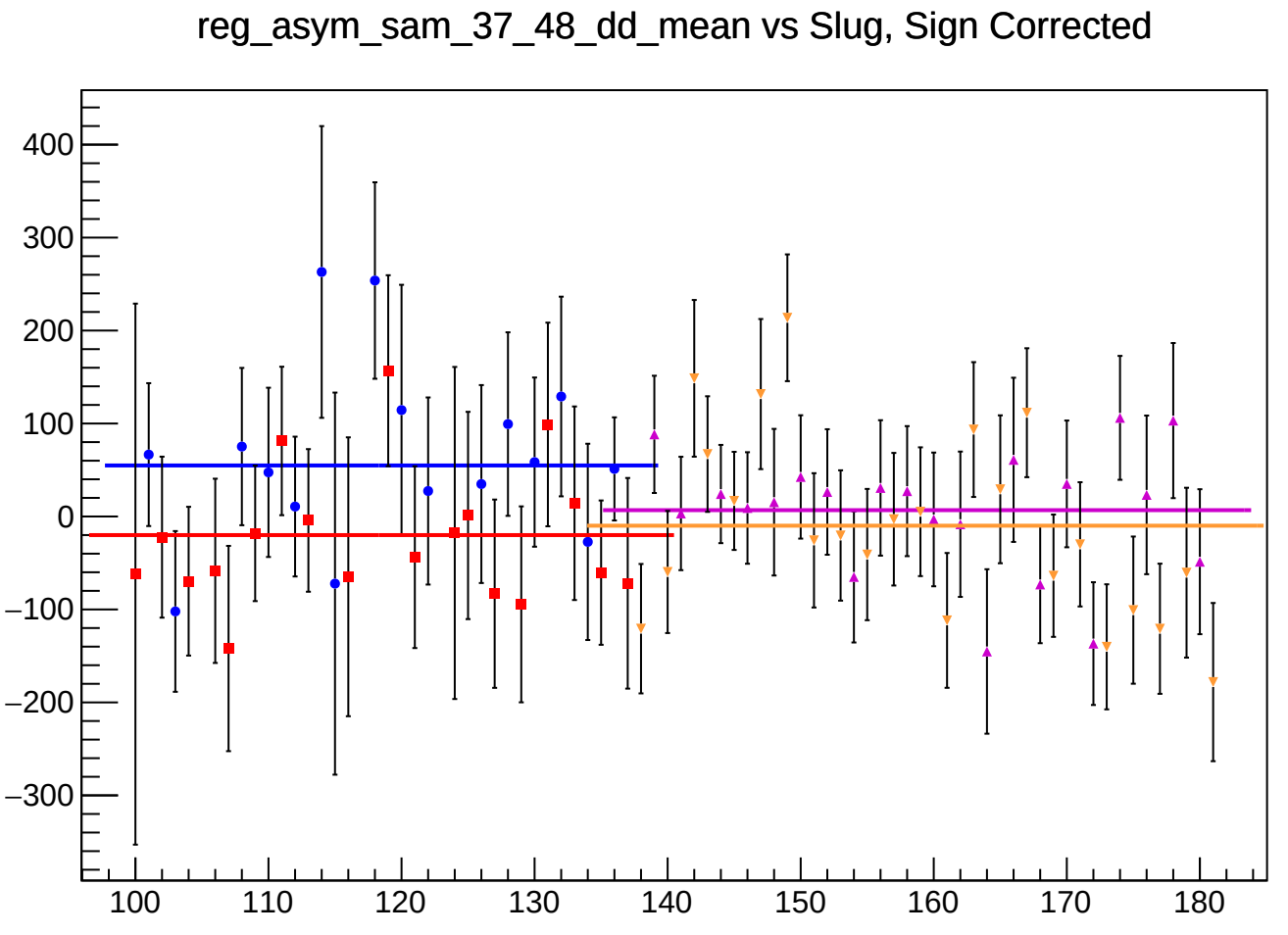
Left: 0.000+/-0.000 $\chi^2$/NDF: 5876460.0/43

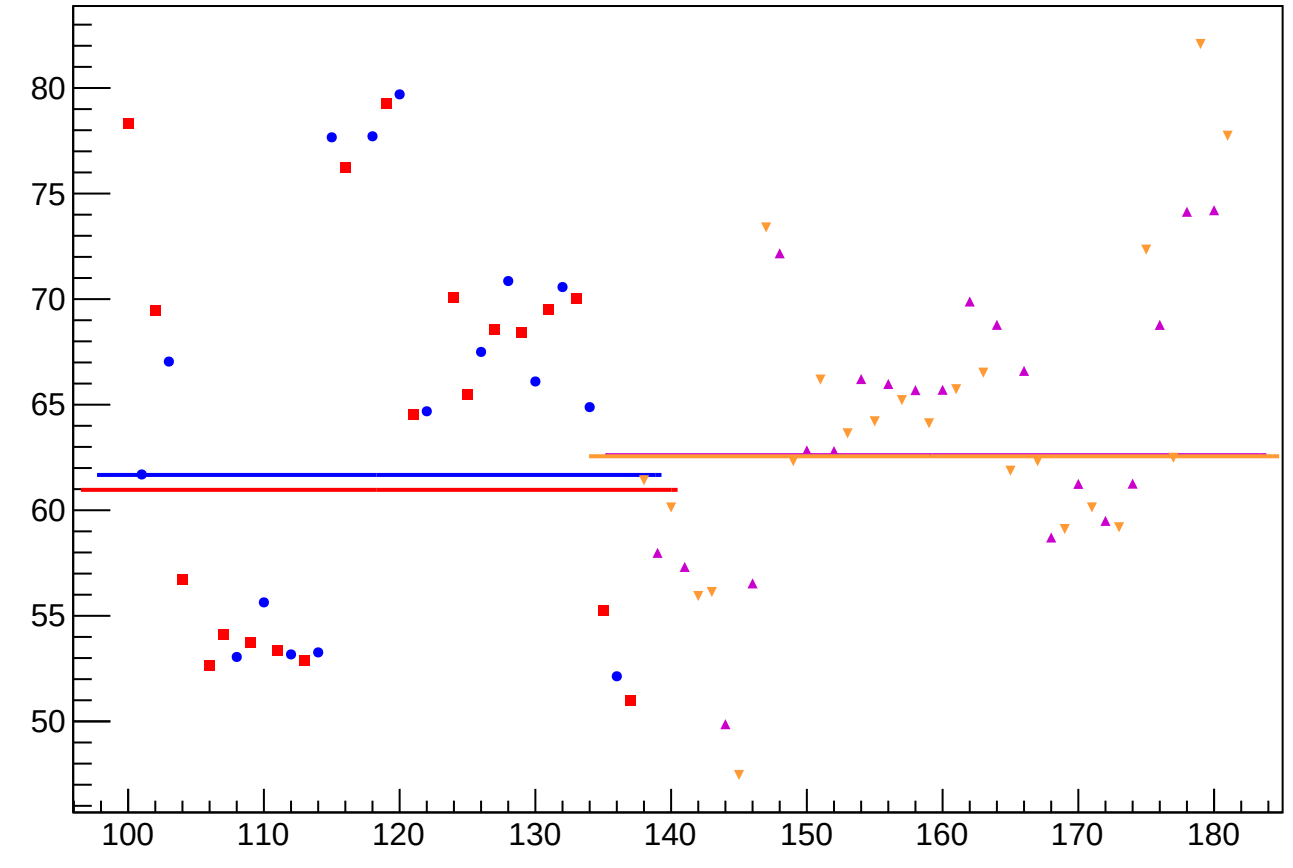
Right: 0.000+/-0.000 $\chi^2$/NDF: 2613122.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:8561052.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7030731.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15629080.4/78


reg_asym_sam_37_48_dd_mean vs Slug, Sign Corrected
400
300
200
100
0
−100
−200
−300
100
110
120
130
140
150
160
170
180
Right In: 54.883+/-23.179 χ²/NDF: 11.0/15
Left Out: -9.913+/-14.728 χ²/NDF:42.5/22
Right Out: -20.020+/-22.571 χ²/NDF: 9.2/18
Left In: 6.809+/-15.185 χ²/NDF:17.4/20
Left: -1.807+/-10.572 χ²/NDF: 60.5/43
Right: 16.437+/-16.171 χ²/NDF: 25.6/34
In: 21.246+/-12.702 χ²/NDF:31.4/36
Out: -12.931+/-12.335 χ²/NDF:51.8/41
All: 3.656+/-8.849 χ²/NDF: 87.0/78




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.1/15

Left Out: 62.557+/-0.010 $\chi^2$/NDF:455822.7/22

Right Out: 60.967+/-0.016 $\chi^2$/NDF: 284183.4/18

Left In: 62.610+/-0.011 $\chi^2$/NDF:346949.0/20

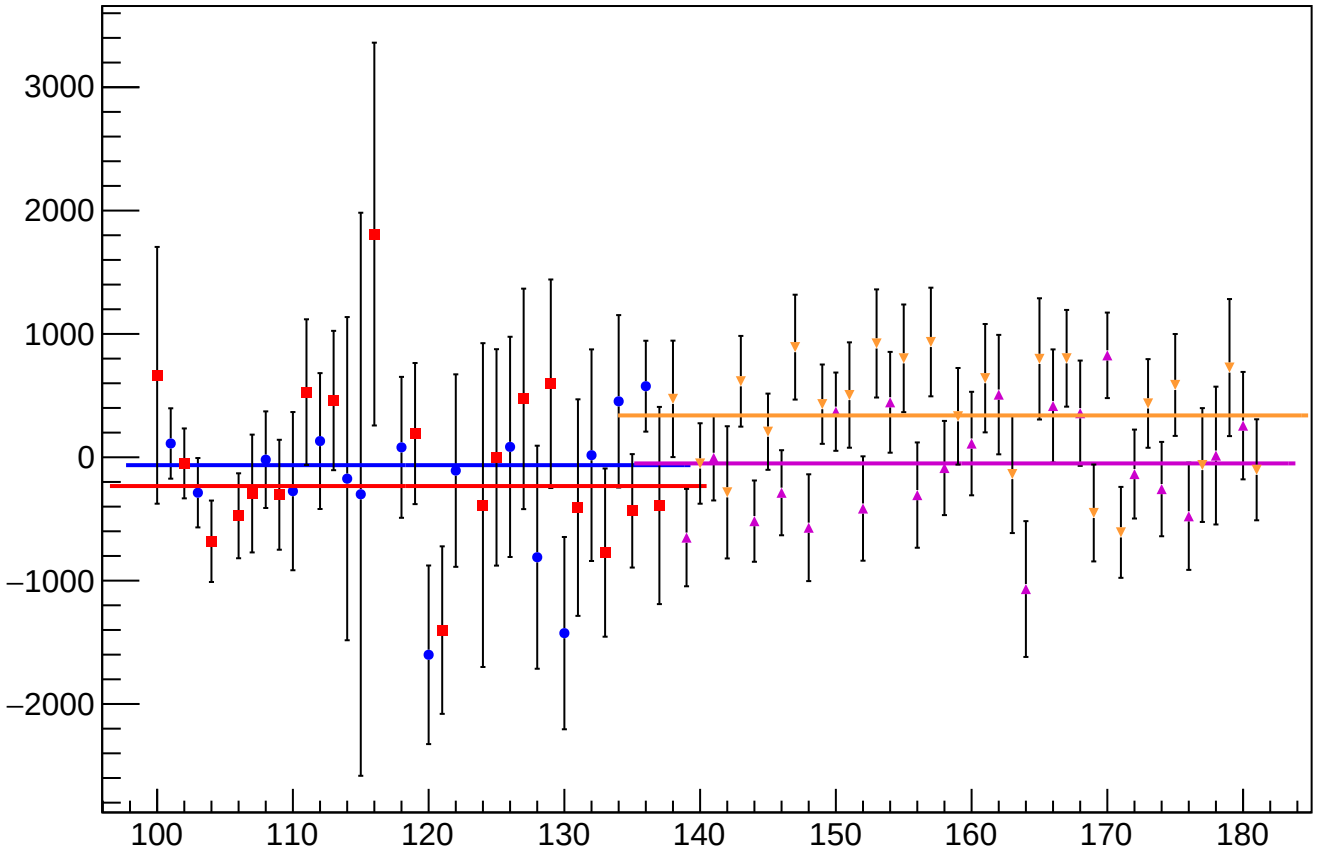
Left: 62.583+/-0.007 $\chi^2$/NDF: 802784.4/43

Right: 61.310+/-0.011 $\chi^2$/NDF: 552244.9/34

In: 62.329+/-0.009 $\chi^2$/NDF:616346.5/36

Out: 62.082+/-0.009 $\chi^2$/NDF:746972.9/41

All: 62.202+/-0.006 $\chi^2$/NDF: 1363707.8/78




Right In: -63.834+/-129.674 $\chi^2$/NDF: 13.2/15

Left Out: 339.355+/-84.634 $\chi^2$/NDF:27.5/22

Right Out: -233.206+/-122.791 $\chi^2$/NDF: 14.5/18

Left In: -49.710+/-87.133 $\chi^2$/NDF:25.7/20

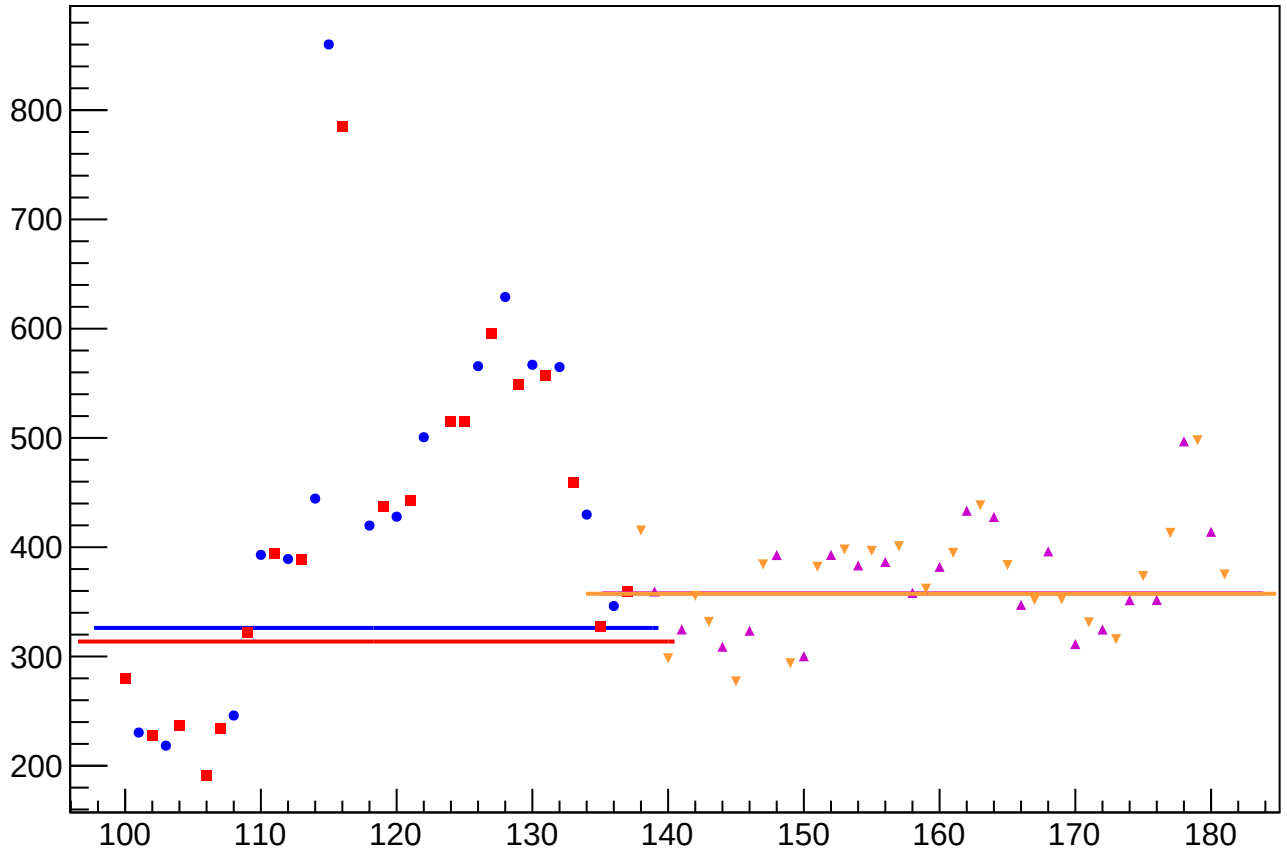
Left: 150.481+/-60.710 $\chi^2$/NDF: 63.4/43

Right: -153.135+/-89.161 $\chi^2$/NDF: 28.6/34

In: -54.104+/-72.323 $\chi^2$/NDF:38.9/36

Out: 154.952+/-69.685 $\chi^2$/NDF:56.7/41

All: 54.306+/-50.181 $\chi^2$/NDF: 100.0/78




Right In: 326.147+/-0.092 $\chi^2$/NDF: 1733995.5/15

Left Out: 357.383+/-0.060 $\chi^2$/NDF:665174.7/22

Right Out: 313.672+/-0.087 $\chi^2$/NDF: 1787347.3/18

Left In: 357.804+/-0.062 $\chi^2$/NDF:507588.8/20

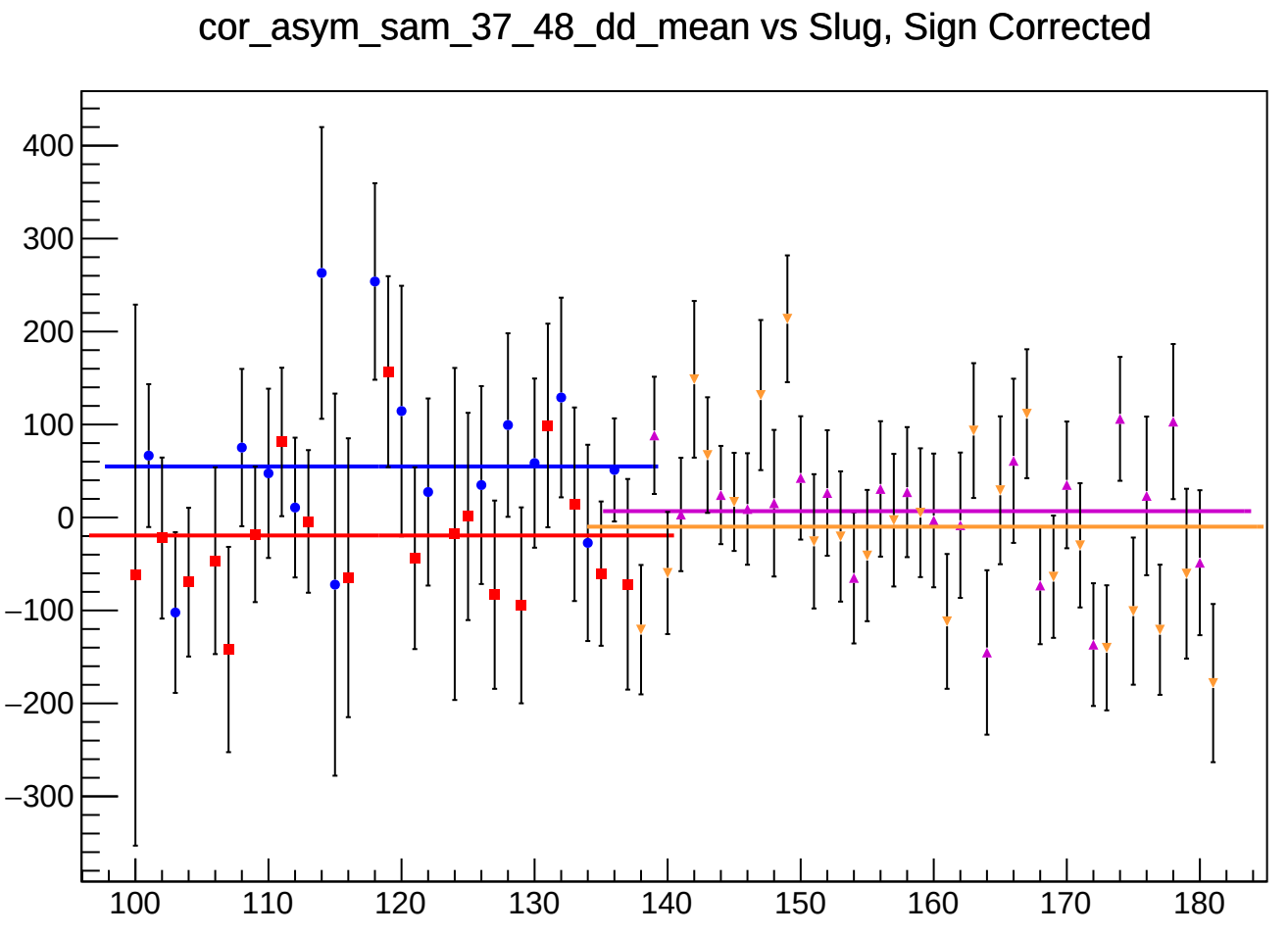
Left: 357.588+/-0.043 $\chi^2$/NDF: 1172787.5/43

Right: 319.570+/-0.063 $\chi^2$/NDF: 3531102.5/34

In: 347.957+/-0.051 $\chi^2$/NDF:2323702.9/36

Out: 343.305+/-0.049 $\chi^2$/NDF:2624339.7/41

All: 345.545+/-0.035 $\chi^2$/NDF: 4952333.5/78


cor_asym_sam_37_48_dd_mean vs Slug, Sign Corrected
400
300
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0
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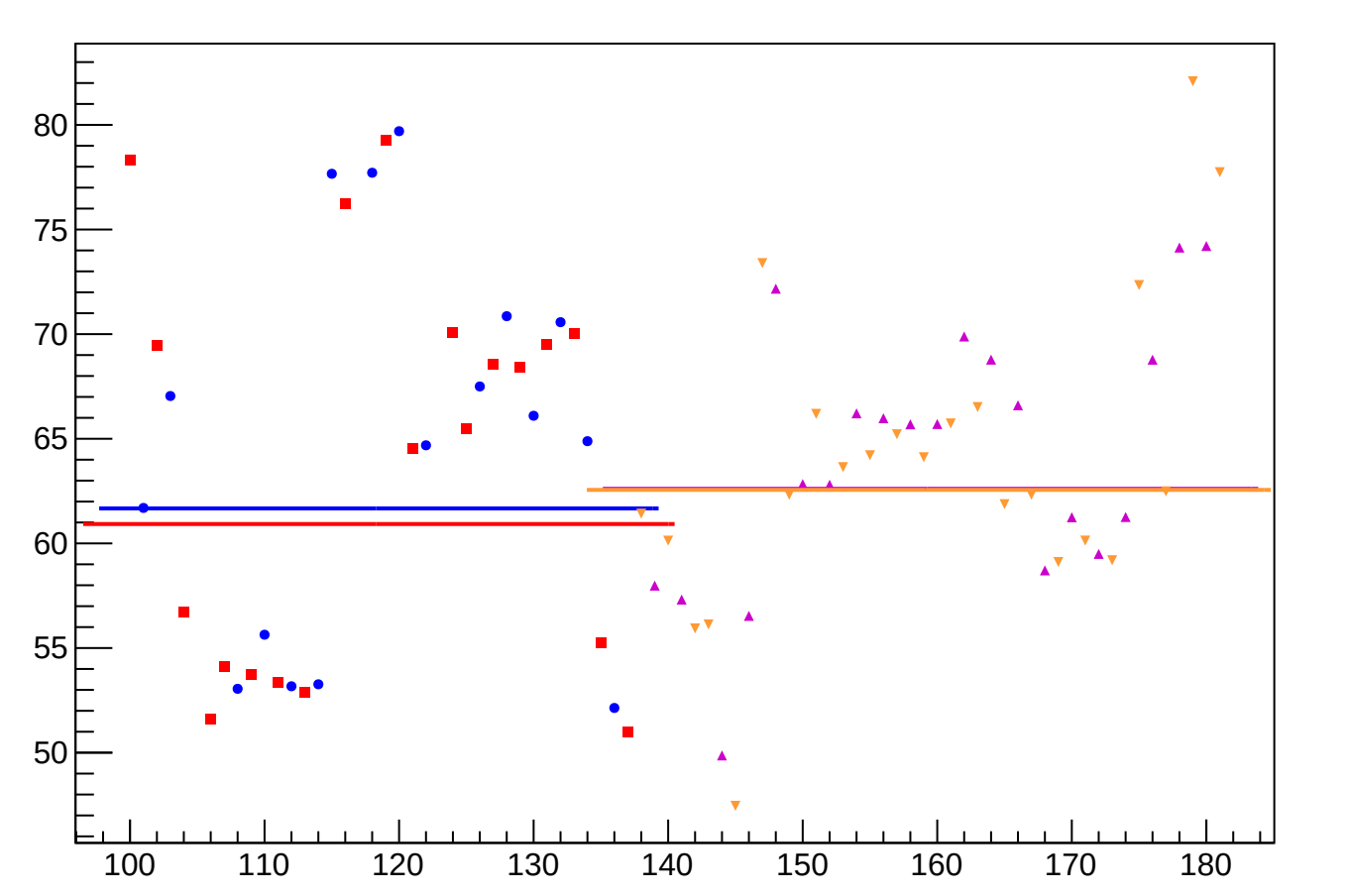
−300
100
110
120
130
140
150
160
170
180
Right In: 54.877+/-23.179 χ²/NDF: 11.0/15
Left Out: -9.916+/-14.728 χ²/NDF:42.5/22
Right Out: -19.352+/-22.588 χ²/NDF: 9.2/18
Left In: 6.808+/-15.185 χ²/NDF:17.4/20
Left: -1.809+/-10.572 χ²/NDF: 60.5/43
Right: 16.804+/-16.177 χ²/NDF: 25.4/34
In: 21.244+/-12.702 χ²/NDF:31.4/36
Out: -12.731+/-12.337 χ²/NDF:51.7/41
All: 3.761+/-8.850 χ²/NDF: 86.8/78




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.3/15

Left Out: 62.557+/-0.010 $\chi^2$/NDF:455822.7/22

Right Out: 60.926+/-0.016 $\chi^2$/NDF: 287579.6/18

Left In: 62.610+/-0.011 $\chi^2$/NDF:346949.0/20

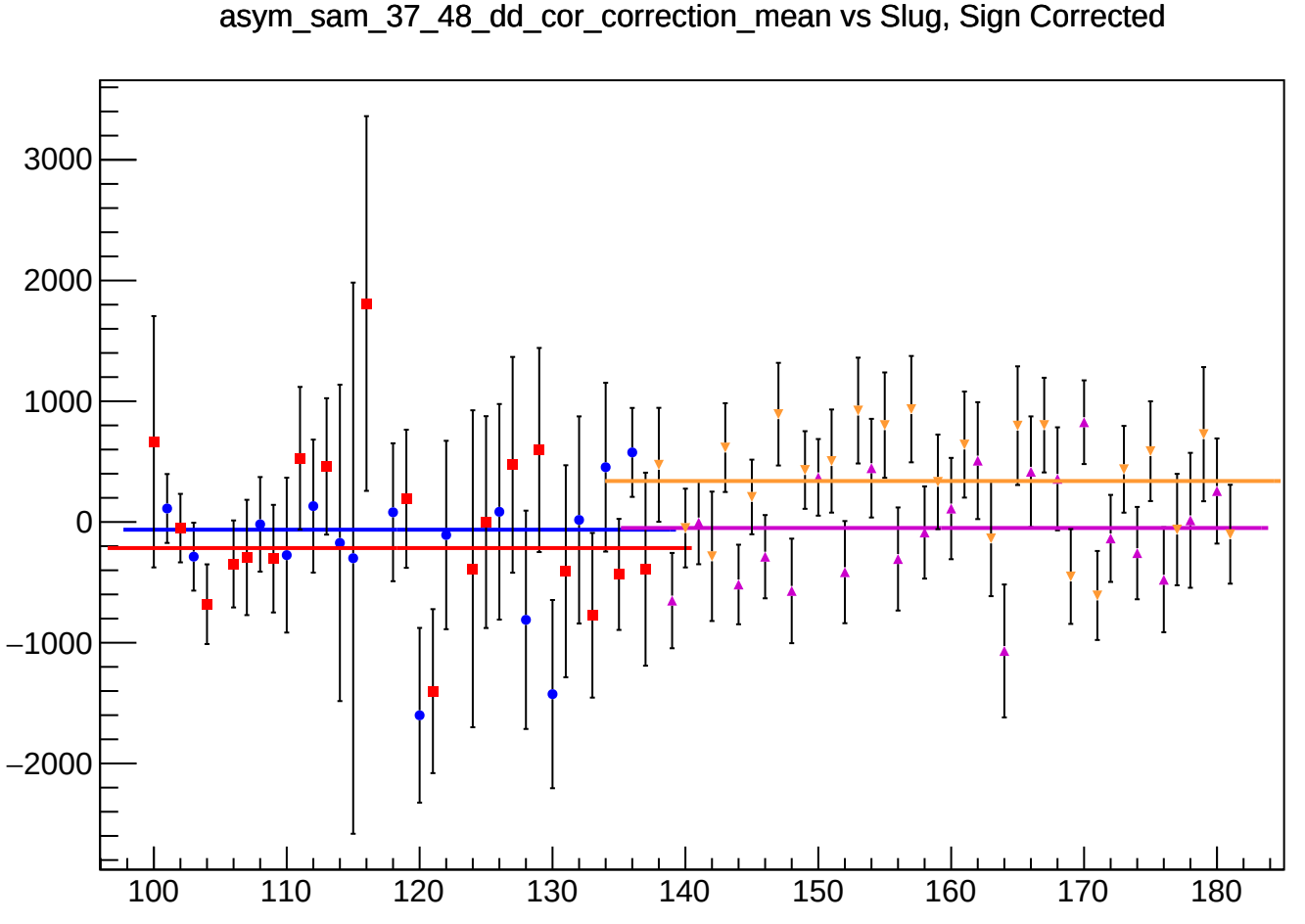
Left: 62.583+/-0.007 $\chi^2$/NDF: 802784.5/43

Right: 61.290+/-0.011 $\chi^2$/NDF: 555754.0/34

In: 62.329+/-0.009 $\chi^2$/NDF:616346.7/36

Out: 62.070+/-0.009 $\chi^2$/NDF:750723.9/41

All: 62.196+/-0.006 $\chi^2$/NDF: 1367496.6/78




Right In: -63.820+/-129.675 $\chi^2$/NDF: 13.2/15

Left Out: 339.352+/-84.634 $\chi^2$/NDF:27.5/22

Right Out: -215.911+/-123.491 $\chi^2$/NDF: 14.1/18

Left In: -49.708+/-87.133 $\chi^2$/NDF:25.7/20

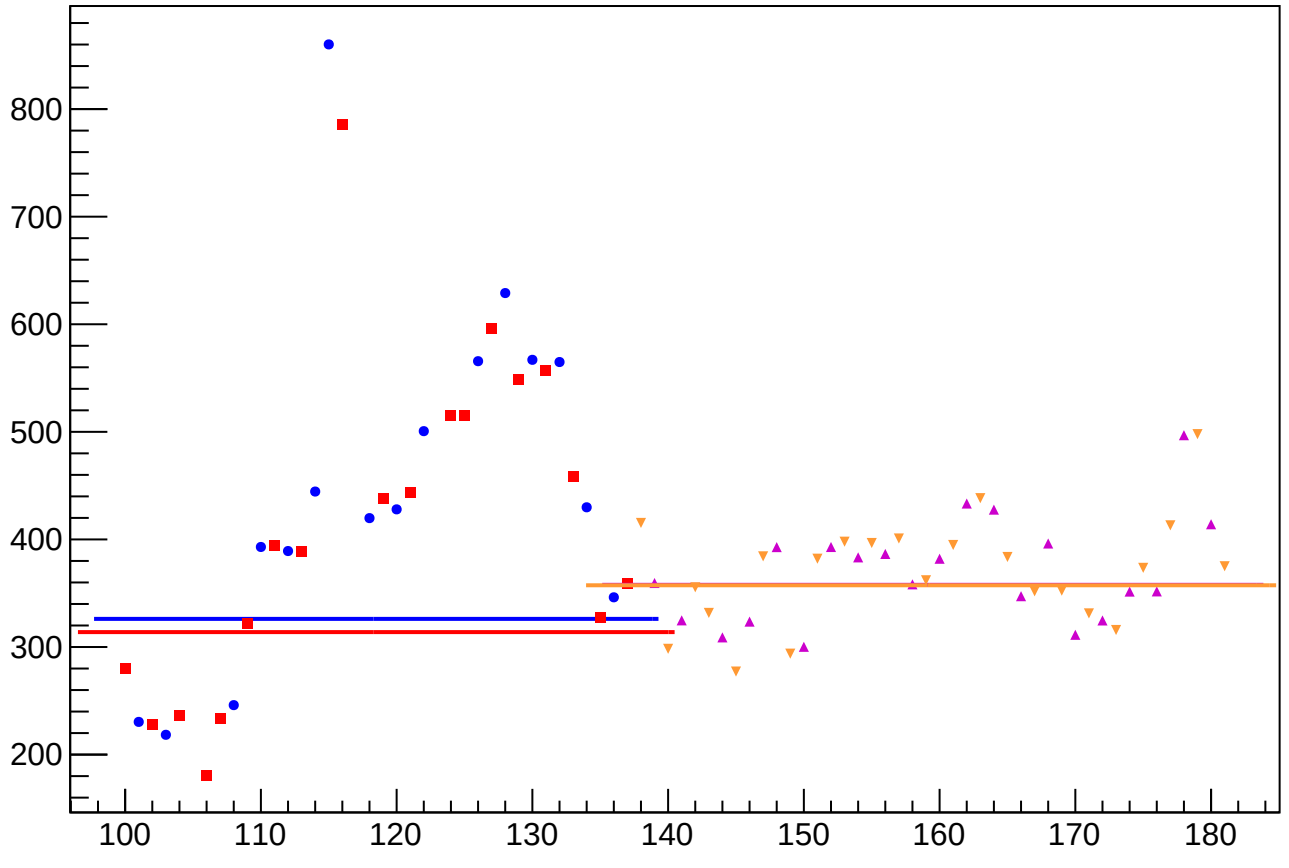
Left: 150.481+/-60.710 $\chi^2$/NDF: 63.4/43

Right: -143.578+/-89.428 $\chi^2$/NDF: 28.0/34

In: -54.098+/-72.323 $\chi^2$/NDF:38.9/36

Out: 161.897+/-69.812 $\chi^2$/NDF:55.4/41

All: 57.714+/-50.229 $\chi^2$/NDF: 98.8/78




Right In: 326.150+/-0.092 $\chi^2$/NDF: 1733934.7/15

Left Out: 357.383+/-0.060 $\chi^2$/NDF:665171.5/22

Right Out: 313.861+/-0.087 $\chi^2$/NDF: 1805779.4/18

Left In: 357.804+/-0.062 $\chi^2$/NDF:507591.4/20

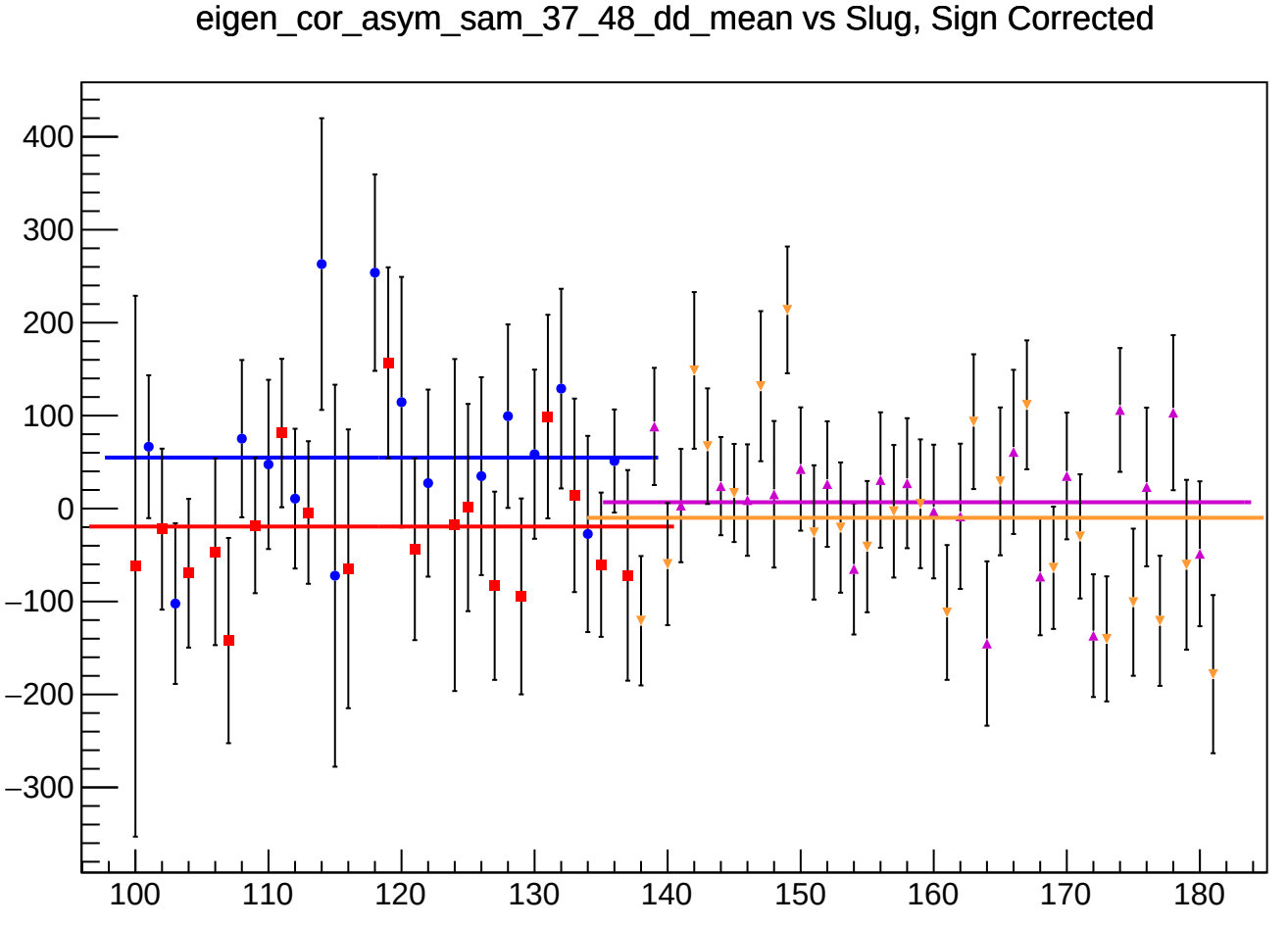
Left: 357.588+/-0.043 $\chi^2$/NDF: 1172786.9/43

Right: 319.706+/-0.063 $\chi^2$/NDF: 3549134.1/34

In: 347.958+/-0.051 $\chi^2$/NDF:2323629.2/36

Out: 343.474+/-0.049 $\chi^2$/NDF:2639977.6/41

All: 345.637+/-0.036 $\chi^2$/NDF: 4967586.8/78


eigen_cor_asym_sam_37_48_dd_mean vs Slug, Sign Corrected
400
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−300
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130
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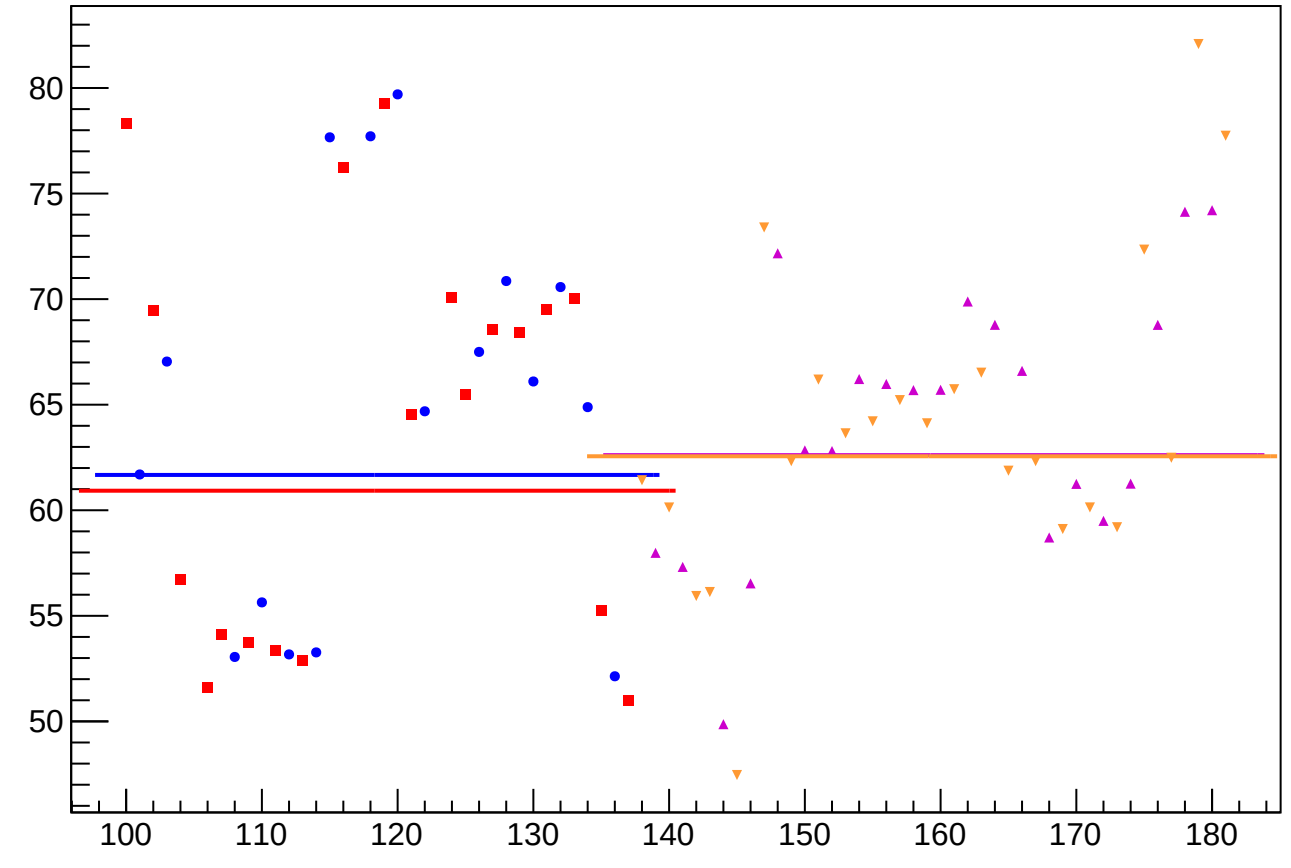
160
170
180
Right In: 54.877+/-23.179 χ²/NDF: 11.0/15
Left Out: -9.916+/-14.728 χ²/NDF:42.5/22
Right Out: -19.352+/-22.588 χ²/NDF: 9.2/18
Left In: 6.808+/-15.185 χ²/NDF:17.4/20
Left: -1.809+/-10.572 χ²/NDF: 60.5/43
Right: 16.804+/-16.177 χ²/NDF: 25.4/34
In: 21.244+/-12.702 χ²/NDF:31.4/36
Out: -12.731+/-12.337 χ²/NDF:51.7/41
All: 3.761+/-8.850 χ²/NDF: 86.8/78




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.3/15

Left Out: 62.557+/-0.010 $\chi^2$/NDF:455822.7/22

Right Out: 60.926+/-0.016 $\chi^2$/NDF: 287579.6/18

Left In: 62.610+/-0.011 $\chi^2$/NDF:346949.0/20

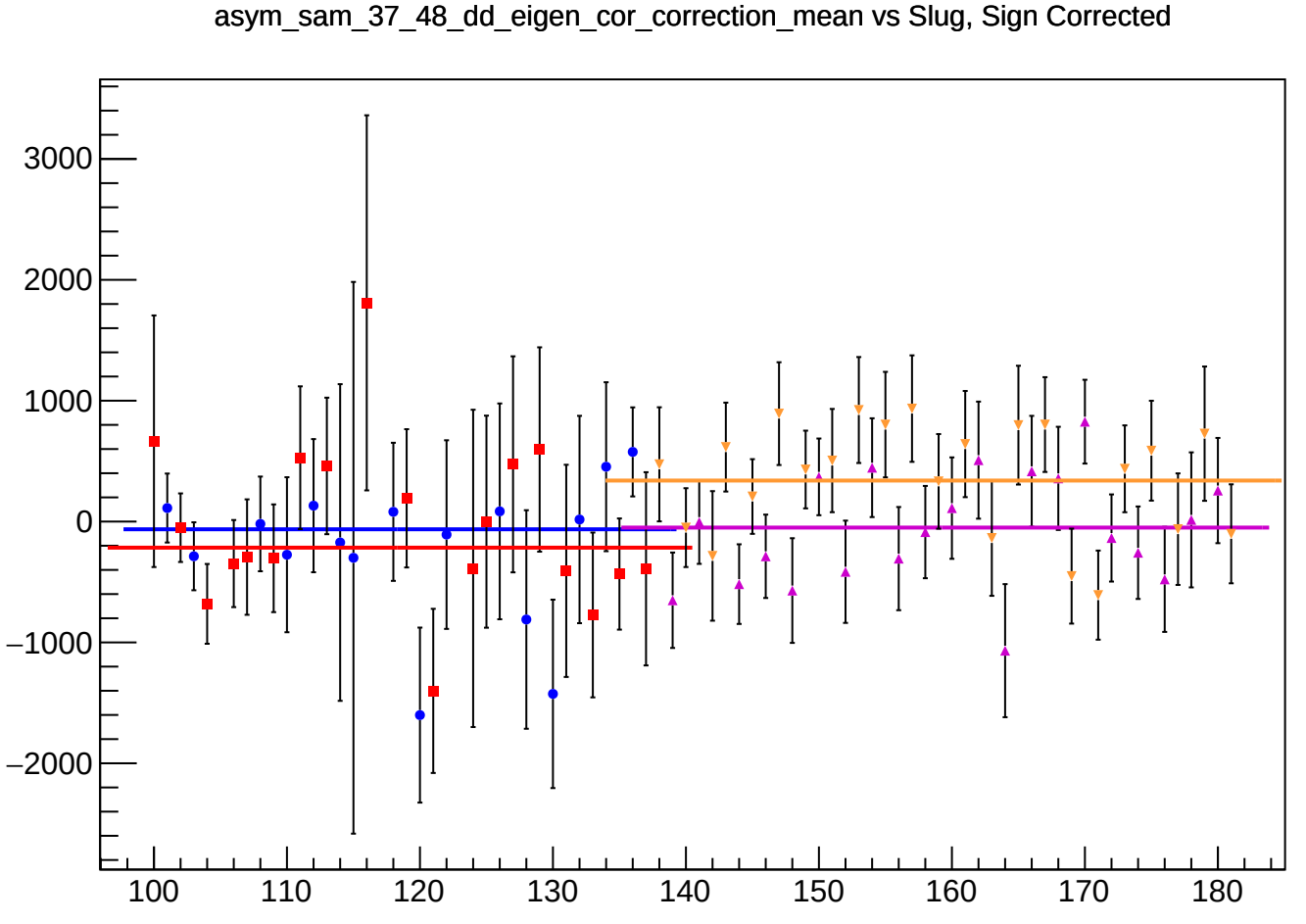
Left: 62.583+/-0.007 $\chi^2$/NDF: 802784.5/43

Right: 61.290+/-0.011 $\chi^2$/NDF: 555754.0/34

In: 62.329+/-0.009 $\chi^2$/NDF:616346.7/36

Out: 62.070+/-0.009 $\chi^2$/NDF:750723.9/41

All: 62.196+/-0.006 $\chi^2$/NDF: 1367496.6/78




Right In: -63.820+/-129.675 $\chi^2$/NDF: 13.2/15

Left Out: 339.352+/-84.634 $\chi^2$/NDF:27.5/22

Right Out: -215.911+/-123.491 $\chi^2$/NDF: 14.1/18

Left In: -49.708+/-87.133 $\chi^2$/NDF:25.7/20

Left: 150.481+/-60.710 $\chi^2$/NDF: 63.4/43

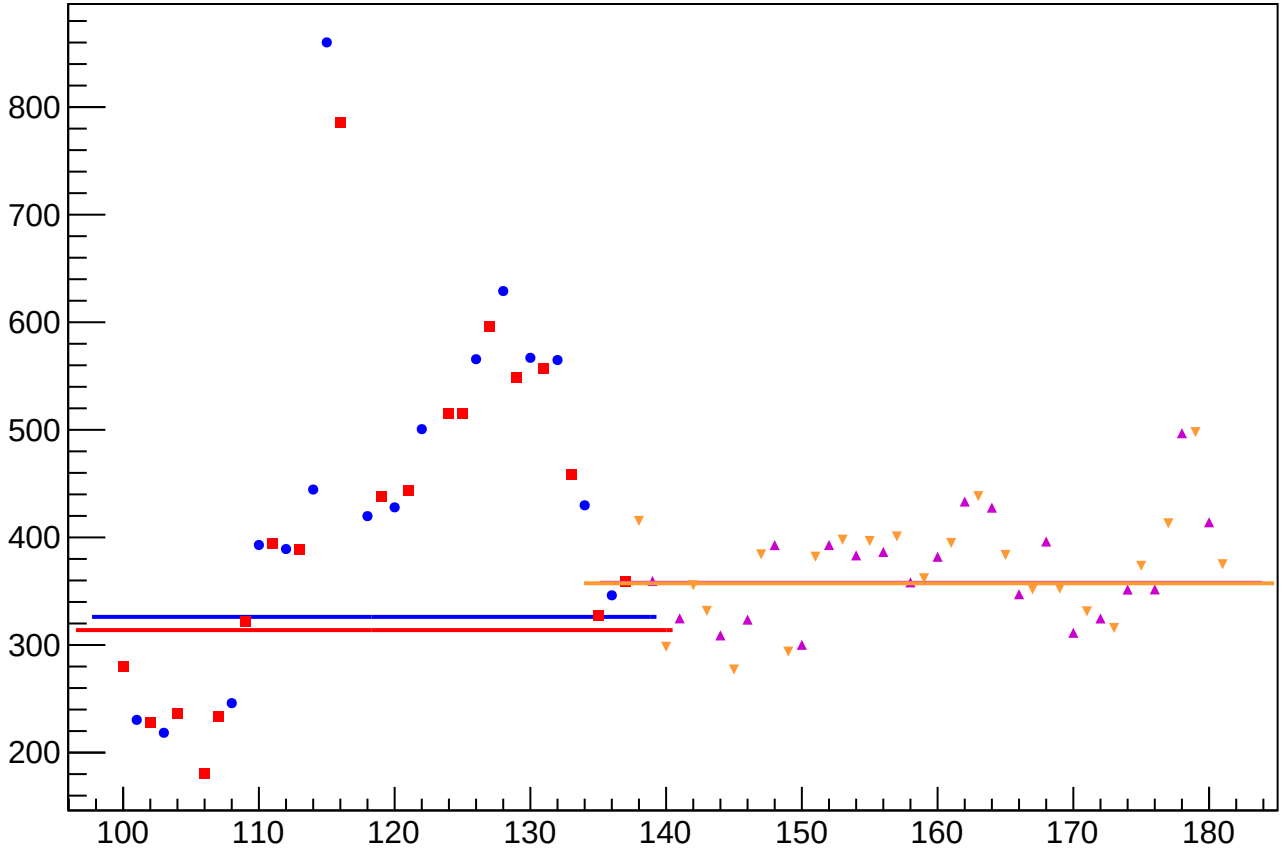
Right: -143.578+/-89.428 $\chi^2$/NDF: 28.0/34

In: -54.098+/-72.323 $\chi^2$/NDF:38.9/36

Out: 161.897+/-69.812 $\chi^2$/NDF:55.4/41

All: 57.714+/-50.229 $\chi^2$/NDF: 98.8/78

asym_sam_37_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 326.150+/-0.092 $\chi^2$/NDF: 1733934.7/15

Left Out: 357.383+/-0.060 $\chi^2$/NDF:665171.5/22

Right Out: 313.861+/-0.087 $\chi^2$/NDF: 1805779.4/18

Left In: 357.804+/-0.062 $\chi^2$/NDF:507591.4/20

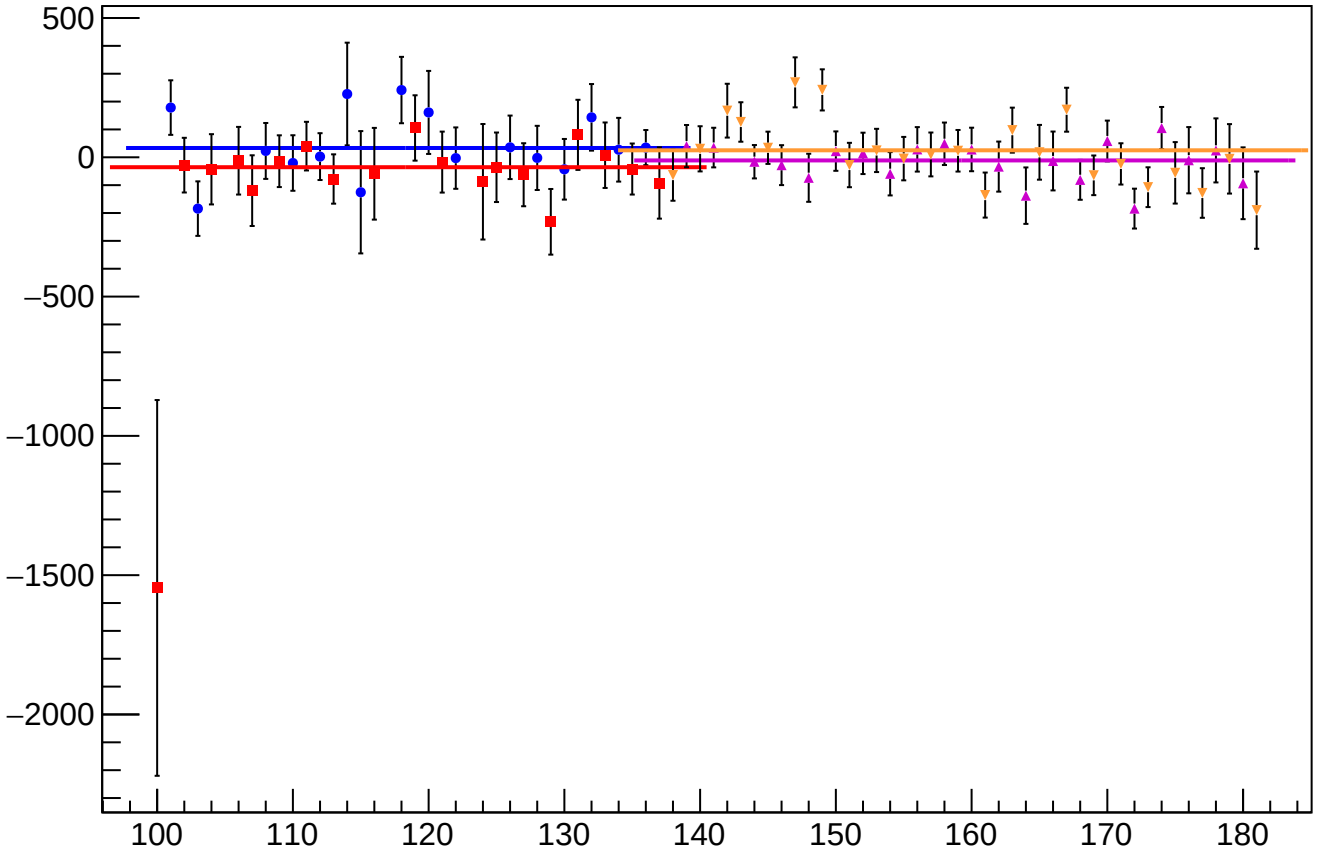
Left: 357.588+/-0.043 $\chi^2$/NDF: 1172786.9/43

Right: 319.706+/-0.063 $\chi^2$/NDF: 3549134.1/34

In: 347.958+/-0.051 $\chi^2$/NDF:2323629.2/36

Out: 343.474+/-0.049 $\chi^2$/NDF:2639977.6/41

All: 345.637+/-0.036 $\chi^2$/NDF: 4967586.8/78




Right In: 33.399+/-26.415 $\chi^2$/NDF: 14.5/15

Left Out: 25.102+/-16.946 $\chi^2$/NDF:41.4/22

Right Out: -35.576+/-26.536 $\chi^2$/NDF: 12.1/18

Left In: -11.247+/-17.439 $\chi^2$/NDF:15.5/20

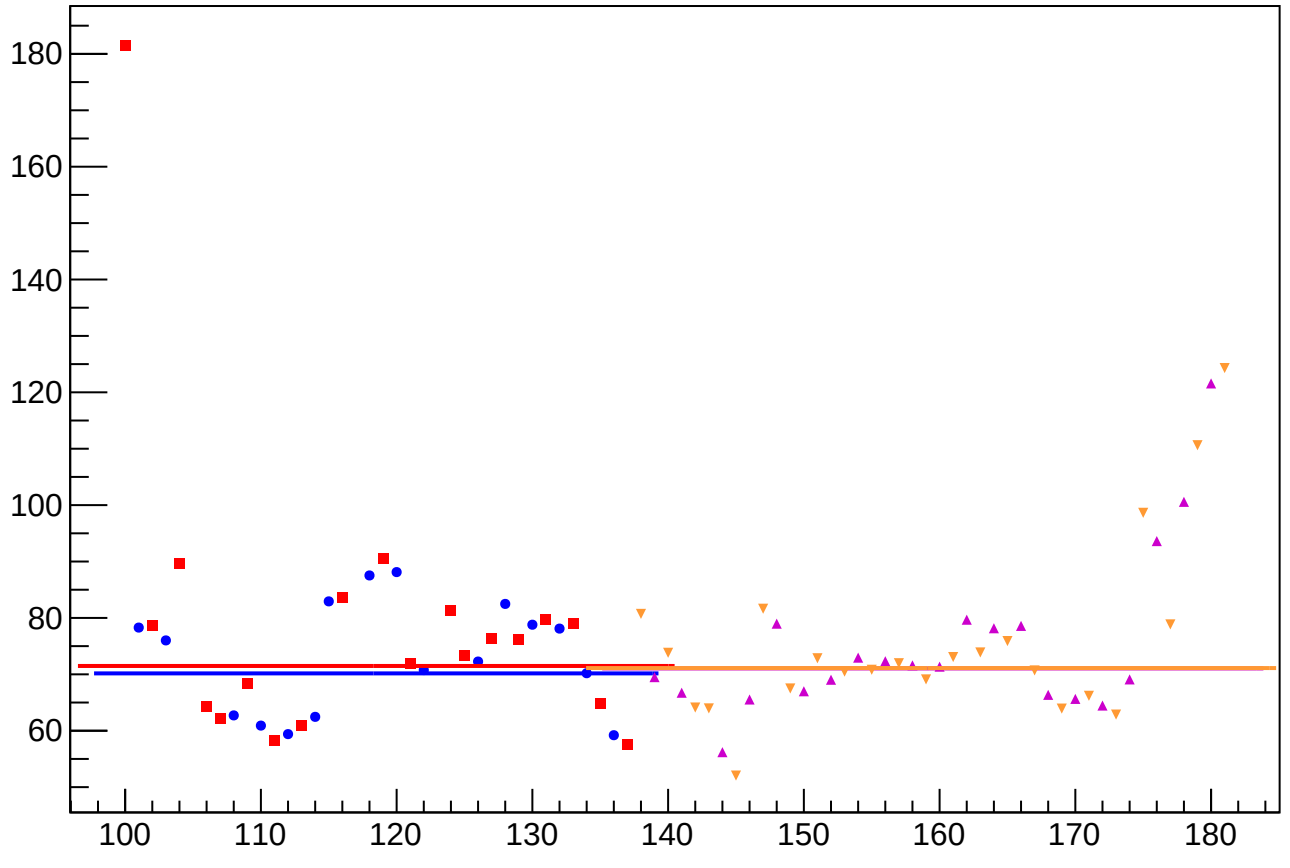
Left: 7.448+/-12.153 $\chi^2$/NDF: 59.1/43

Right: -0.931+/-18.721 $\chi^2$/NDF: 30.0/34

In: 2.306+/-14.553 $\chi^2$/NDF:32.0/36

Out: 7.524+/-14.282 $\chi^2$/NDF:57.2/41

All: 4.964+/-10.194 $\chi^2$/NDF: 89.3/78




Right In: 70.167+/-0.019 $\chi^2$/NDF: 269249.9/15

Left Out: 71.110+/-0.012 $\chi^2$/NDF:1005747.7/22

Right Out: 71.483+/-0.019 $\chi^2$/NDF: 325715.0/18

Left In: 71.044+/-0.012 $\chi^2$/NDF:757526.1/20

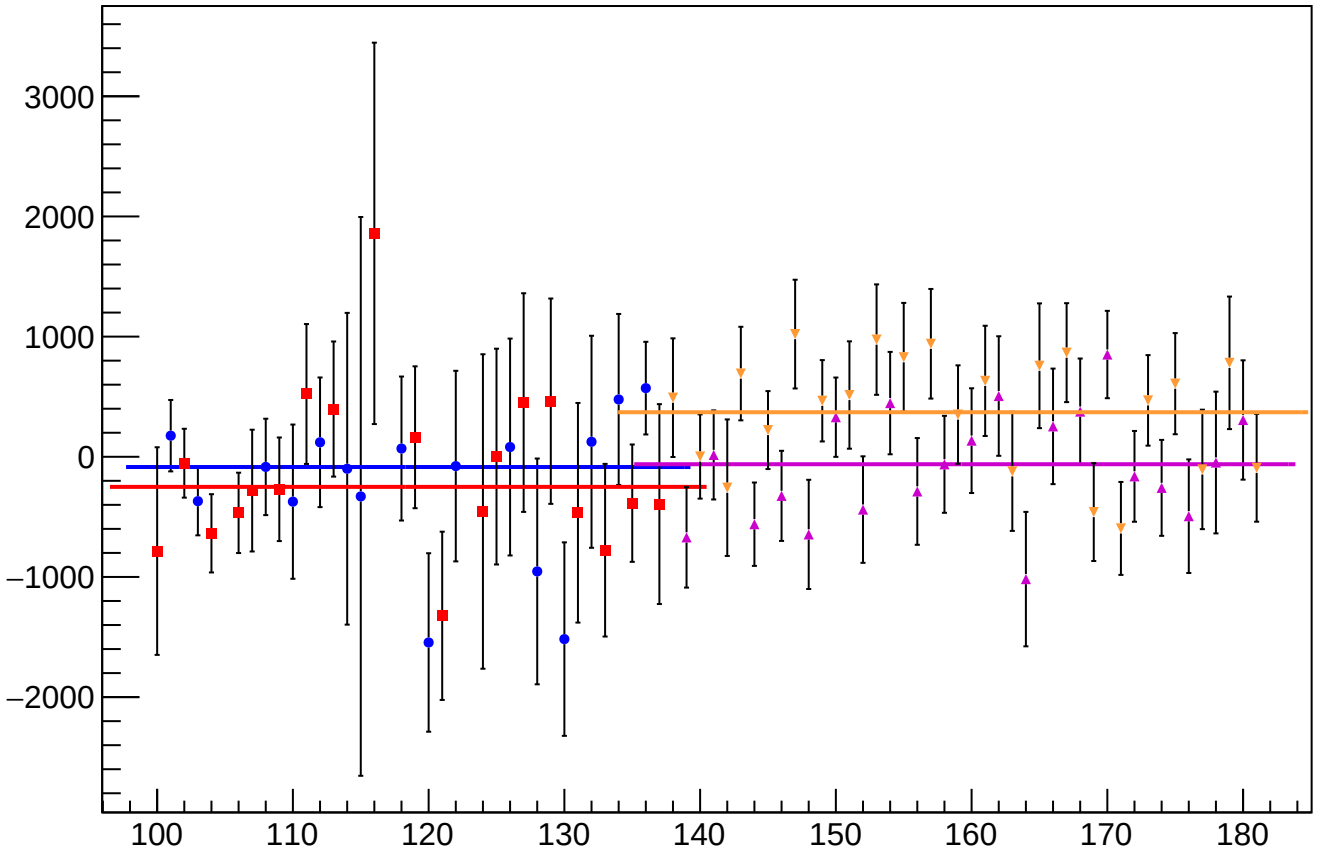
Left: 71.078+/-0.009 $\chi^2$/NDF: 1763288.6/43

Right: 70.822+/-0.013 $\chi^2$/NDF: 597434.8/34

In: 70.778+/-0.010 $\chi^2$/NDF:1028309.1/36

Out: 71.218+/-0.010 $\chi^2$/NDF:1331743.7/41

All: 71.002+/-0.007 $\chi^2$/NDF: 2360985.6/78




Right In: -85.184+/-132.877 $\chi^2$/NDF: 13.7/15

Left Out: 370.697+/-88.873 $\chi^2$/NDF:26.5/22

Right Out: -250.440+/-123.302 $\chi^2$/NDF: 12.5/18

Left In: -61.949+/-91.868 $\chi^2$/NDF:24.0/20

Left: 161.541+/-63.875 $\chi^2$/NDF: 62.0/43

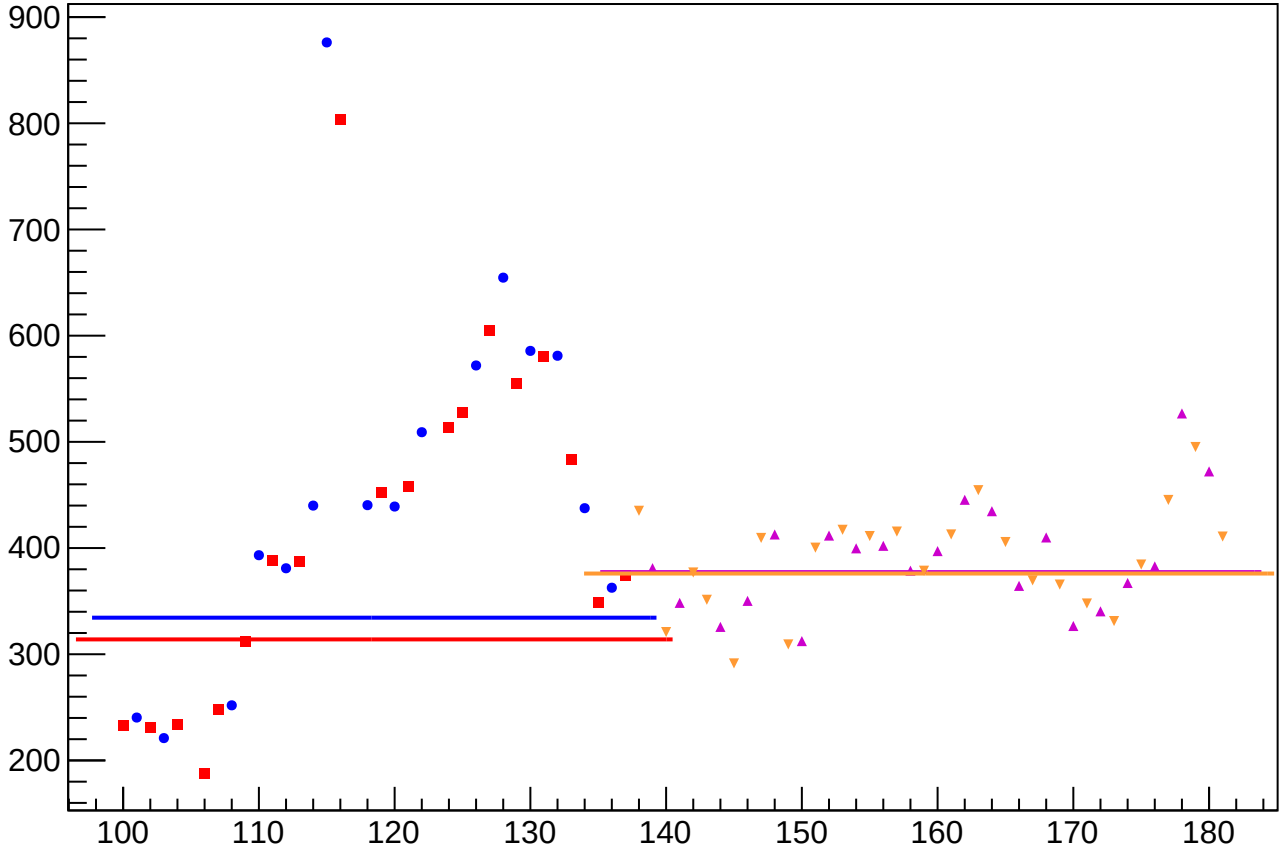
Right: -173.980+/-90.383 $\chi^2$/NDF: 27.0/34

In: -69.463+/-75.566 $\chi^2$/NDF:37.8/36

Out: 158.332+/-72.097 $\chi^2$/NDF:55.7/41

All: 49.783+/-52.163 $\chi^2$/NDF: 98.2/78

asym_sam_37_48_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 334.431+/-0.094 $\chi^2$/NDF: 1730610.2/15

Left Out: 375.994+/-0.063 $\chi^2$/NDF:615783.1/22

Right Out: 313.971+/-0.087 $\chi^2$/NDF: 1904605.9/18

Left In: 377.369+/-0.065 $\chi^2$/NDF:516537.7/20

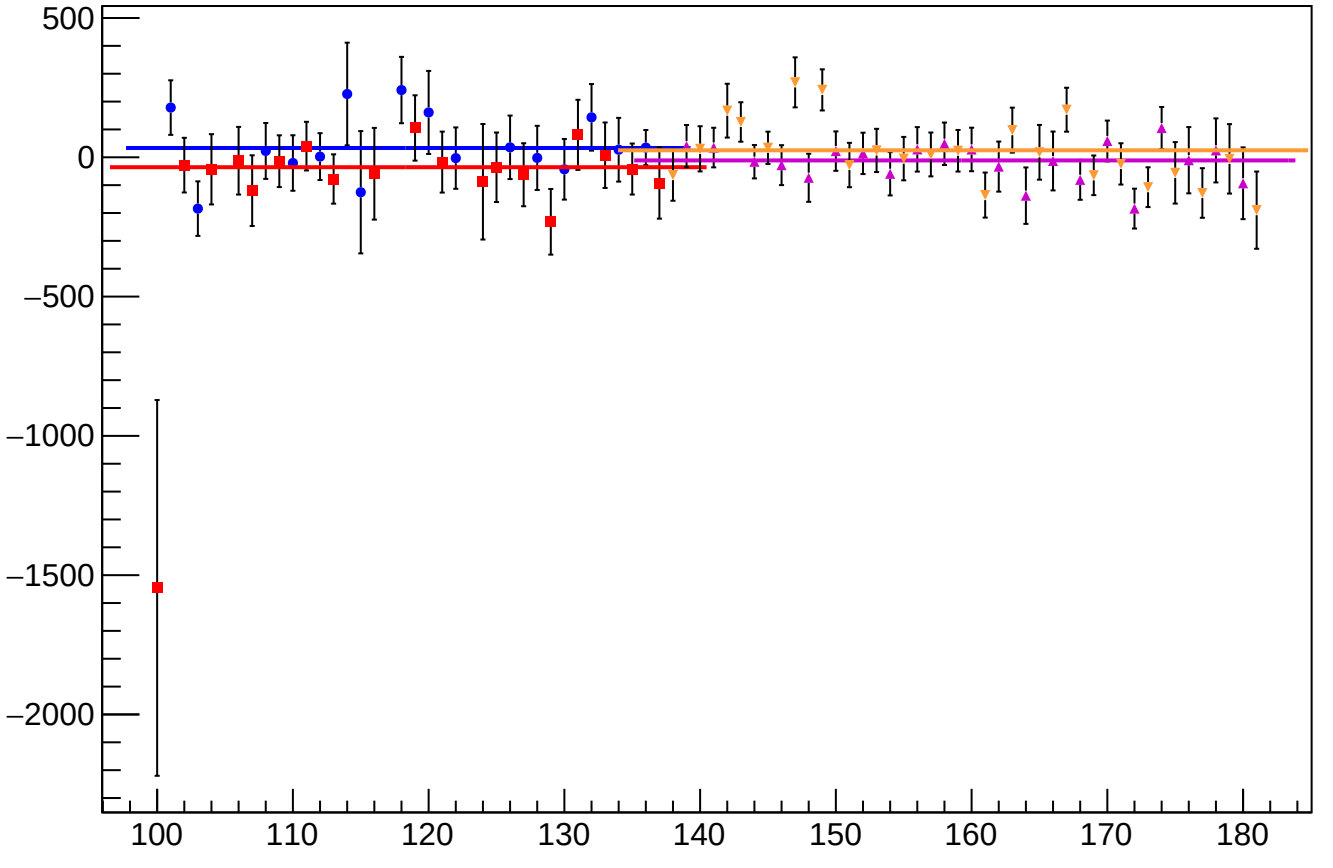
Left: 376.659+/-0.045 $\chi^2$/NDF: 1132552.5/43

Right: 323.437+/-0.064 $\chi^2$/NDF: 3660694.2/34

In: 363.483+/-0.053 $\chi^2$/NDF:2388450.5/36

Out: 354.788+/-0.051 $\chi^2$/NDF:2853419.1/41

All: 358.931+/-0.037 $\chi^2$/NDF: 5255729.5/78




Right In: 33.397+/-26.415 $\chi^2$/NDF: 14.5/15

Left Out: 25.101+/-16.946 $\chi^2$/NDF:41.4/22

Right Out: -35.577+/-26.536 $\chi^2$/NDF: 12.1/18

Left In: -11.247+/-17.439 $\chi^2$/NDF:15.5/20

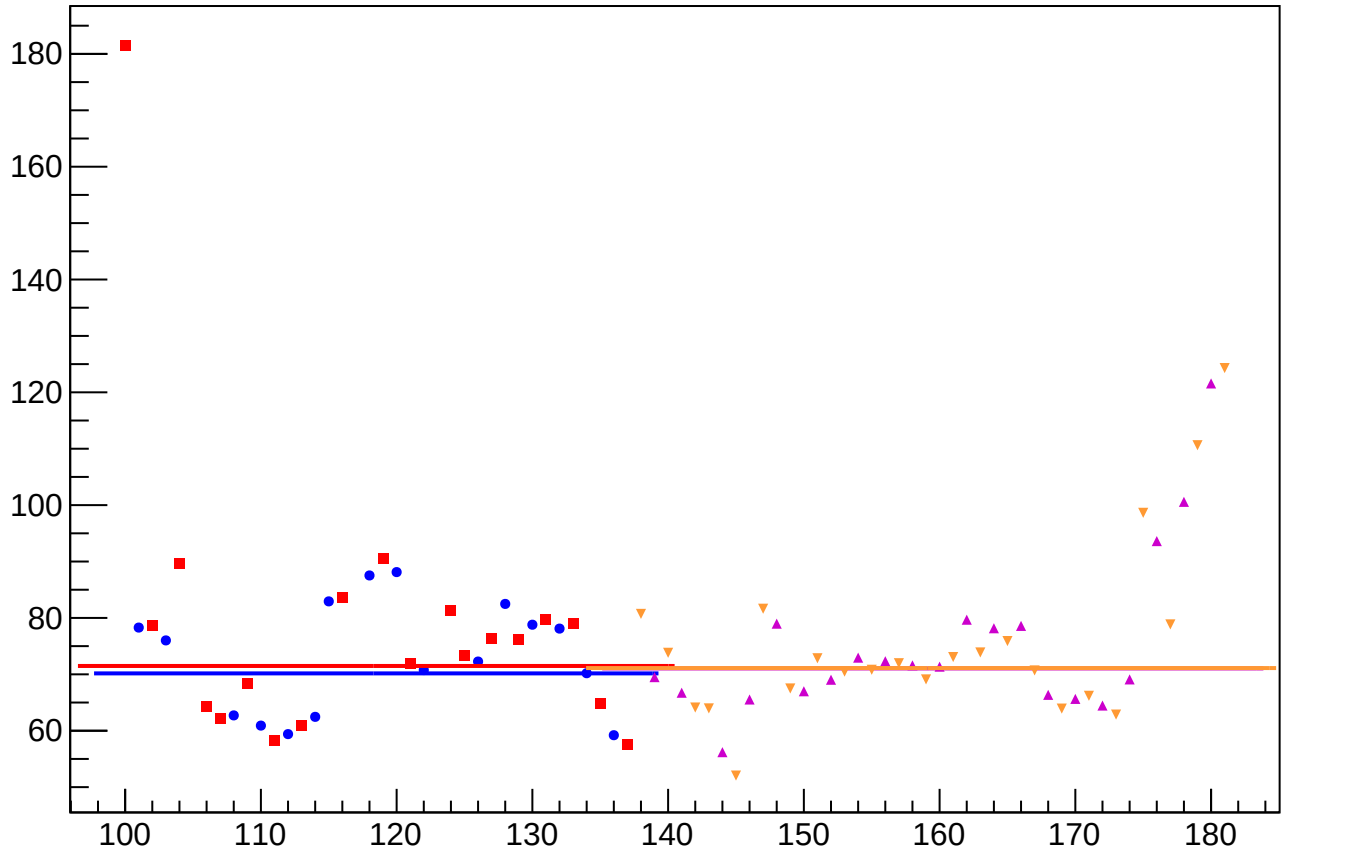
Left: 7.448+/-12.153 $\chi^2$/NDF: 59.1/43

Right: -0.932+/-18.721 $\chi^2$/NDF: 30.0/34

In: 2.305+/-14.553 $\chi^2$/NDF:32.0/36

Out: 7.523+/-14.282 $\chi^2$/NDF:57.2/41

All: 4.963+/-10.194 $\chi^2$/NDF: 89.3/78




Right In: 70.167+/-0.019 $\chi^2$/NDF: 269253.0/15

Left Out: 71.110+/-0.012 $\chi^2$/NDF:1005754.1/22

Right Out: 71.483+/-0.019 $\chi^2$/NDF: 325721.5/18

Left In: 71.044+/-0.012 $\chi^2$/NDF:757513.9/20

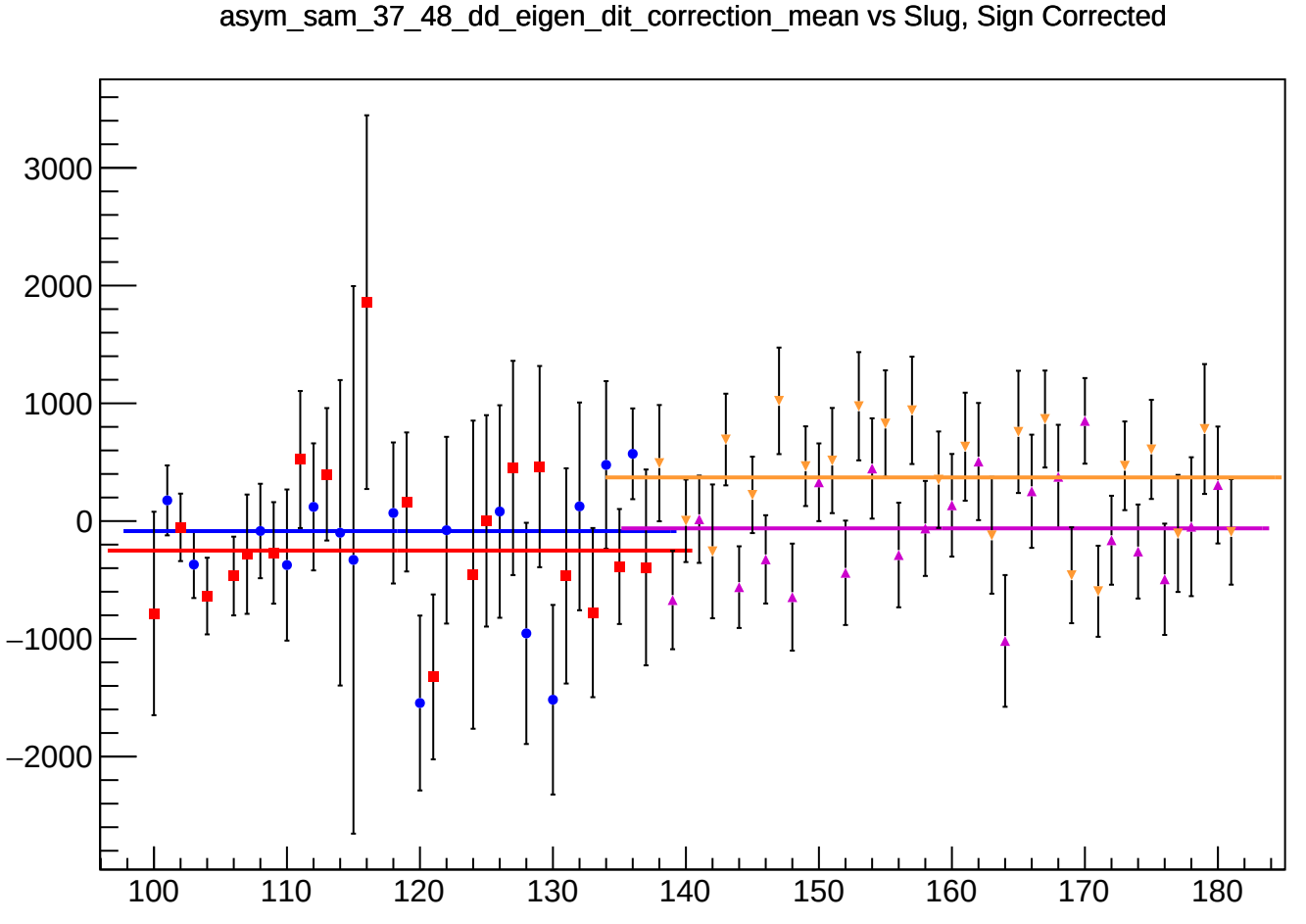
Left: 71.078+/-0.009 $\chi^2$/NDF: 1763282.9/43

Right: 70.822+/-0.013 $\chi^2$/NDF: 597444.3/34

In: 70.778+/-0.010 $\chi^2$/NDF:1028299.5/36

Out: 71.218+/-0.010 $\chi^2$/NDF:1331756.8/41

All: 71.002+/-0.007 $\chi^2$/NDF: 2360989.1/78




Right In: -85.185+/-132.877 $\chi^2$/NDF: 13.7/15

Left Out: 370.696+/-88.873 $\chi^2$/NDF:26.5/22

Right Out: -250.440+/-123.302 $\chi^2$/NDF: 12.5/18

Left In: -61.948+/-91.868 $\chi^2$/NDF:24.0/20

Left: 161.541+/-63.875 $\chi^2$/NDF: 62.0/43

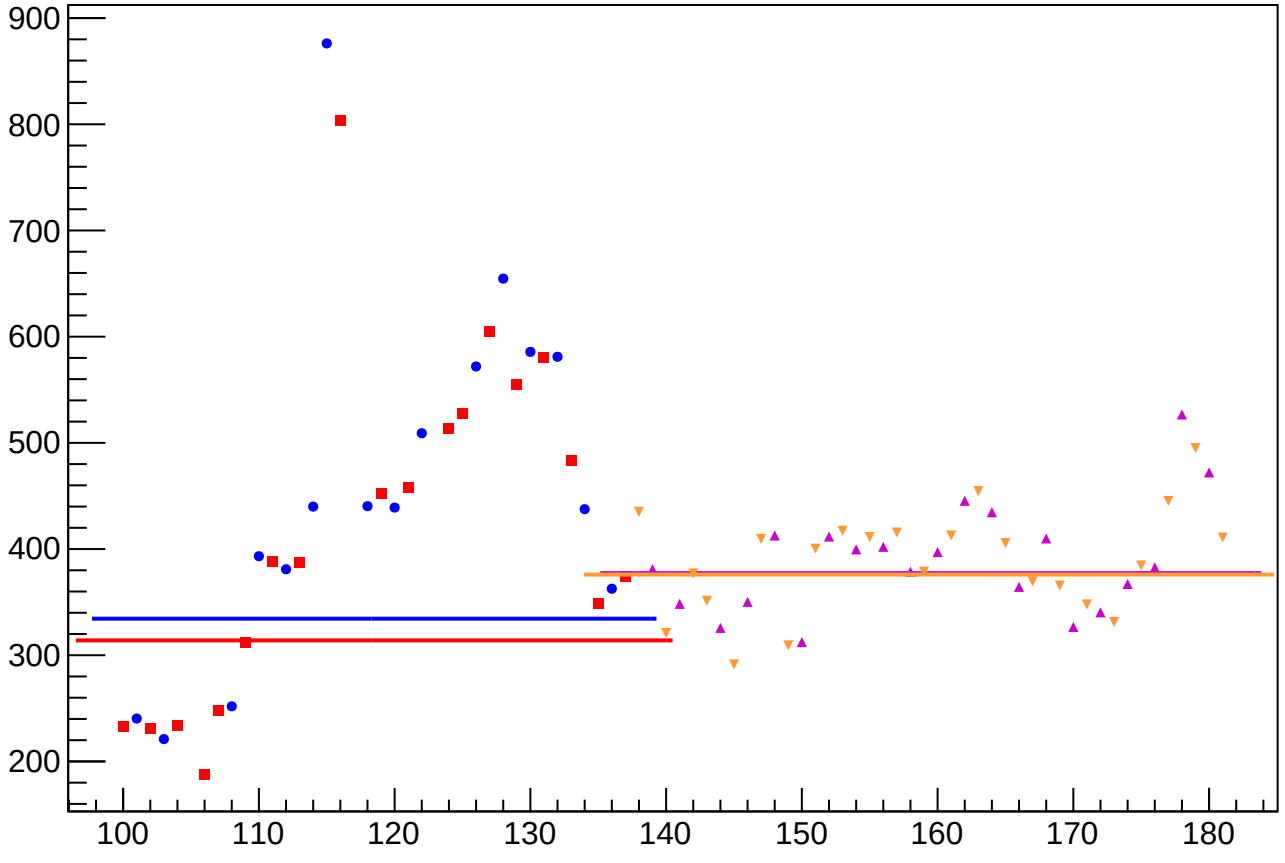
Right: -173.981+/-90.383 $\chi^2$/NDF: 27.0/34

In: -69.463+/-75.566 $\chi^2$/NDF:37.8/36

Out: 158.332+/-72.097 $\chi^2$/NDF:55.7/41

All: 49.783+/-52.163 $\chi^2$/NDF: 98.2/78

asym_sam_37_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 334.431+/-0.094 $\chi^2$/NDF: 1730609.3/15

Left Out: 375.993+/-0.063 $\chi^2$/NDF:615782.9/22

Right Out: 313.971+/-0.087 $\chi^2$/NDF: 1904604.3/18

Left In: 377.369+/-0.065 $\chi^2$/NDF:516532.9/20

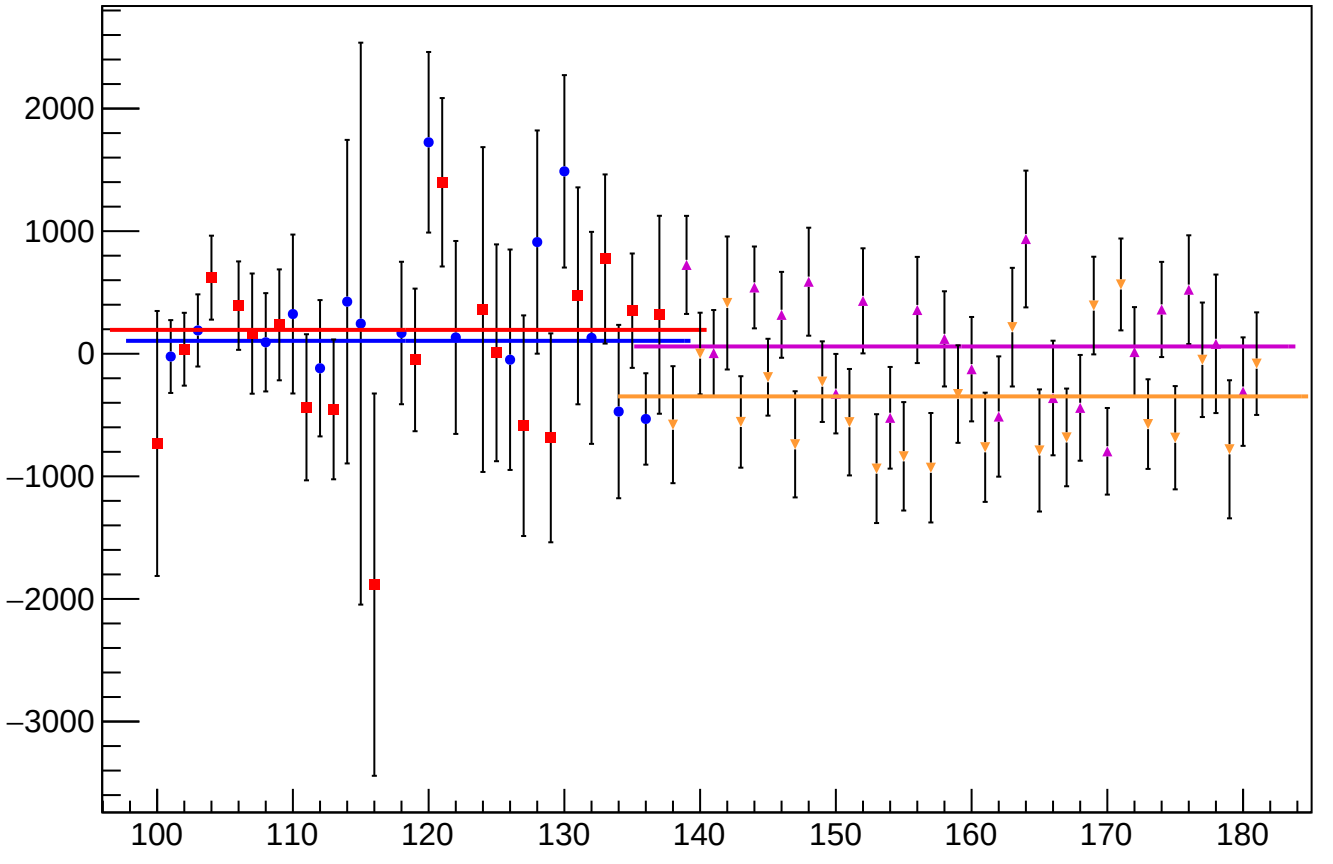
Left: 376.658+/-0.045 $\chi^2$/NDF: 1132547.6/43

Right: 323.437+/-0.064 $\chi^2$/NDF: 3660692.3/34

In: 363.483+/-0.053 $\chi^2$/NDF:2388441.5/36

Out: 354.788+/-0.051 $\chi^2$/NDF:2853413.9/41

All: 358.931+/-0.037 $\chi^2$/NDF: 5255715.6/78




Right In: 105.390+/-133.046 $\chi^2$/NDF: 13.0/15

Left Out: -347.827+/-85.995 $\chi^2$/NDF:25.3/22

Right Out: 194.712+/-126.198 $\chi^2$/NDF: 13.1/18

Left In: 59.508+/-88.520 $\chi^2$/NDF:25.9/20

Left: -150.051+/-61.681 $\chi^2$/NDF: 62.1/43

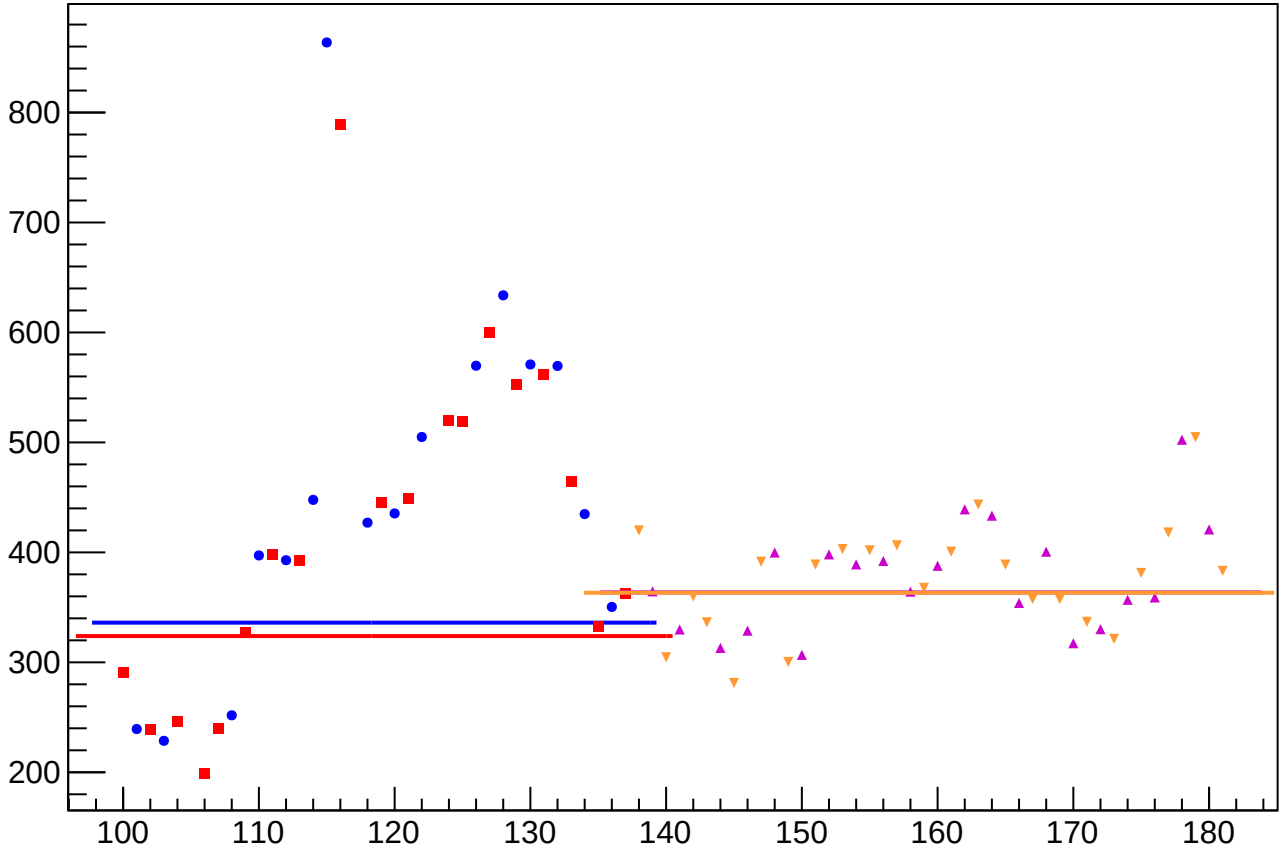
Right: 152.409+/-91.561 $\chi^2$/NDF: 26.3/34

In: 73.586+/-73.698 $\chi^2$/NDF:39.0/36

Out: -175.787+/-71.065 $\chi^2$/NDF:51.0/41

All: -55.636+/-51.156 $\chi^2$/NDF: 95.9/78

# asym_sam_37_48_dd_rms vs Slug, Sign Corrected




Right In: 336.092+/-0.094 $\chi^2$/NDF: 1618997.2/15

Left Out: 363.288+/-0.061 $\chi^2$/NDF:649885.0/22

Right Out: 323.885+/-0.089 $\chi^2$/NDF: 1665420.8/18

Left In: 363.619+/-0.063 $\chi^2$/NDF:494909.9/20

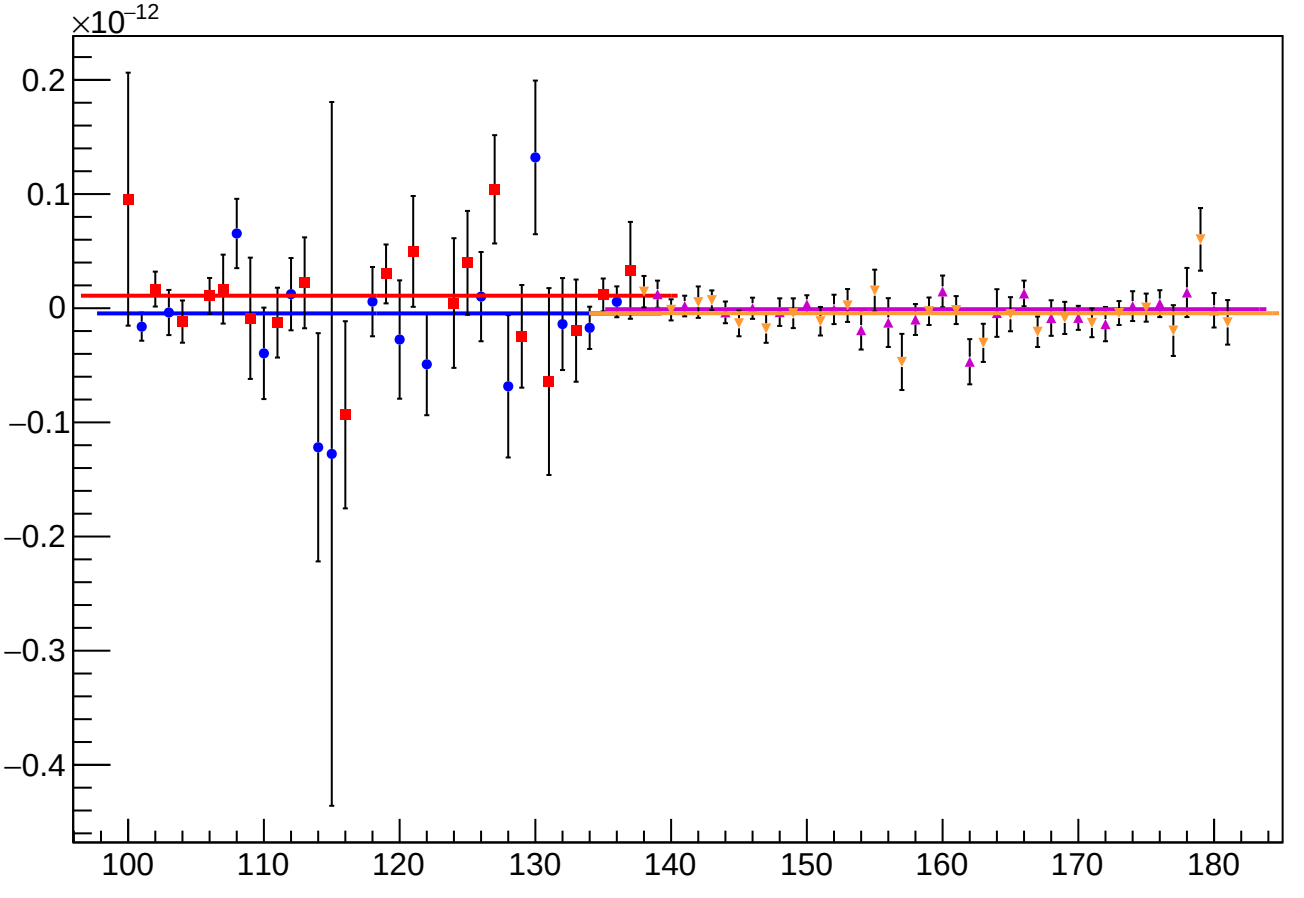
Left: 363.448+/-0.044 $\chi^2$/NDF: 1144809.3/43

Right: 329.666+/-0.065 $\chi^2$/NDF: 3293280.0/34

In: 355.172+/-0.052 $\chi^2$/NDF:2173249.2/36

Out: 350.793+/-0.050 $\chi^2$/NDF:2448450.2/41

All: 352.903+/-0.036 $\chi^2$/NDF: 4625358.5/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.0/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 36.4/43

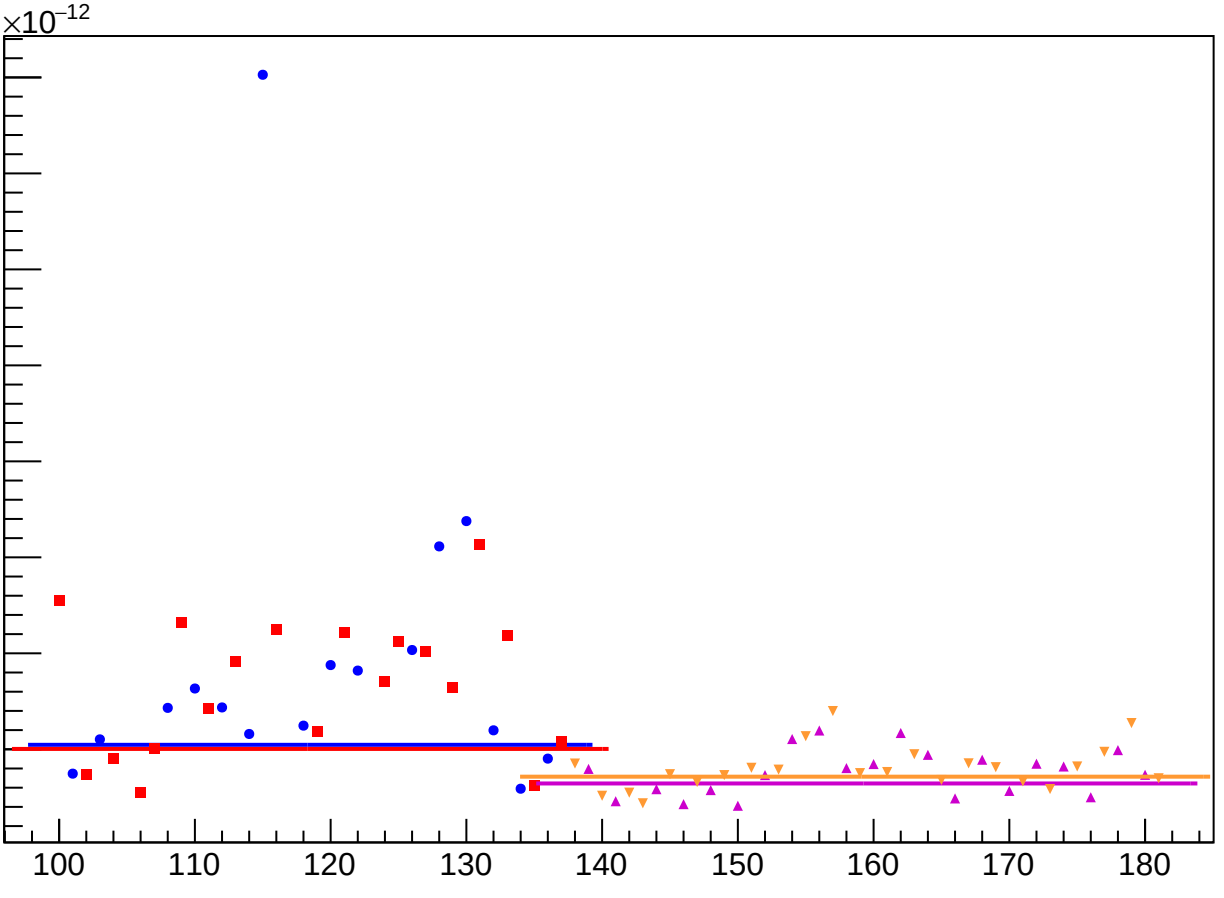
Right: 0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:30.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:38.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 69.5/78

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1183833.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:866259.5/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1415778.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1211375.0/20

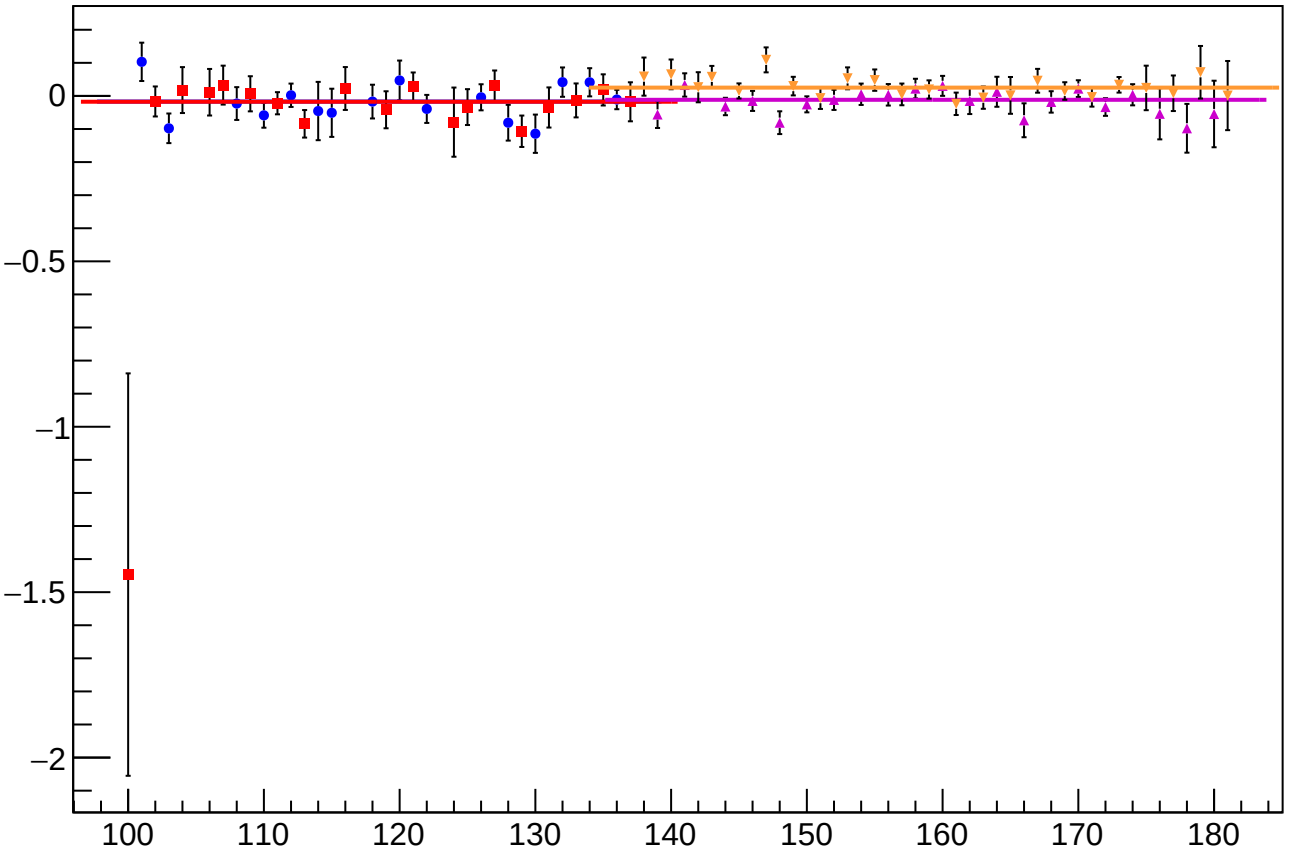
Left: 0.000+/-0.000 $\chi^2$/NDF: 2144849.8/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 2604050.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:3058840.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:2625040.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 5732633.2/78




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.025+/-0.007 $\chi^2$/NDF:15.0/22

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.012+/-0.007 $\chi^2$/NDF:17.8/20

Left: 0.007+/-0.005 $\chi^2$/NDF: 45.6/43

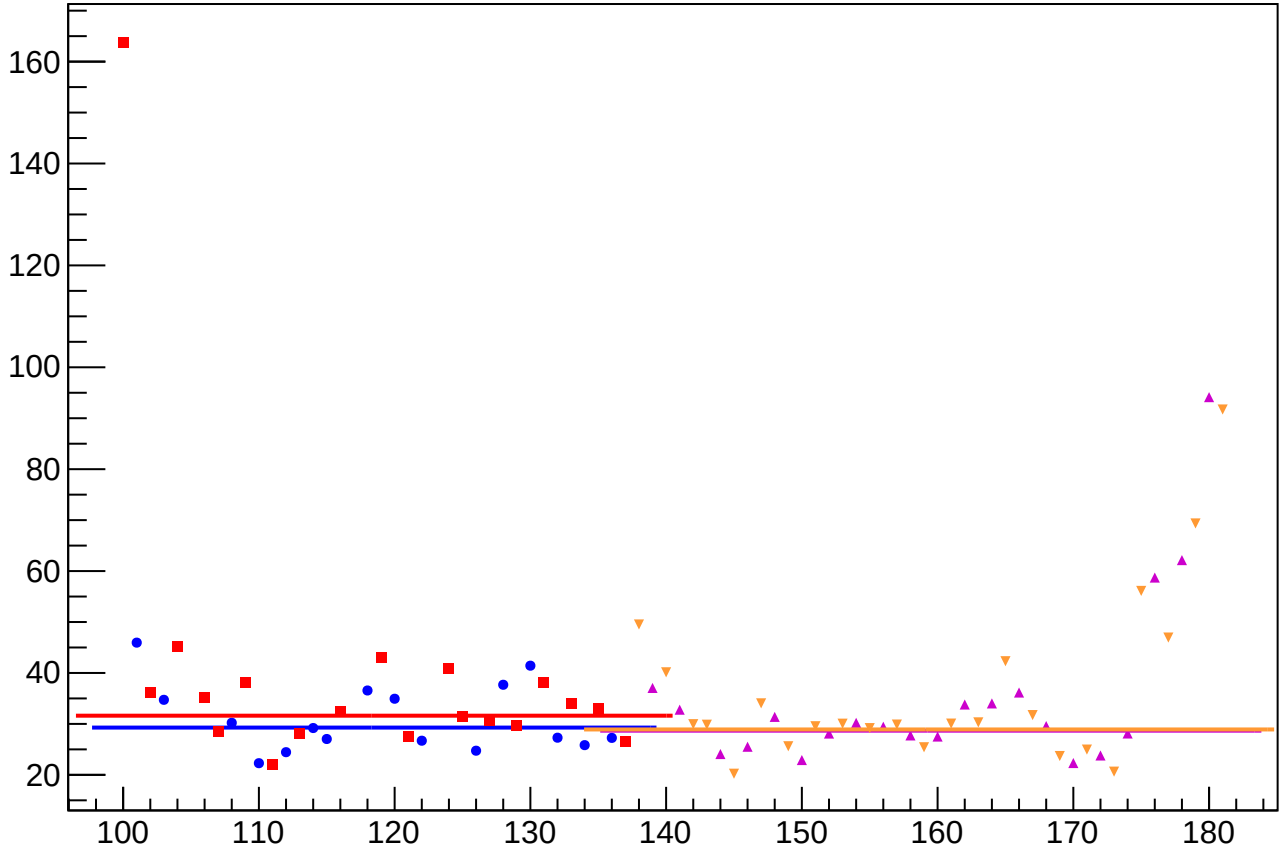
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.013+/-0.006 $\chi^2$/NDF:36.8/36

Out: 0.014+/-0.006 $\chi^2$/NDF:41.0/41

All: 0.000+/-0.004 $\chi^2$/NDF: 87.5/78

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.9/15

Left Out: 28.910+/-0.005 $\chi^2$/NDF:3062879.3/22

Right Out: 31.613+/-0.009 $\chi^2$/NDF: 572190.6/18

Left In: 28.670+/-0.005 $\chi^2$/NDF:2191478.7/20

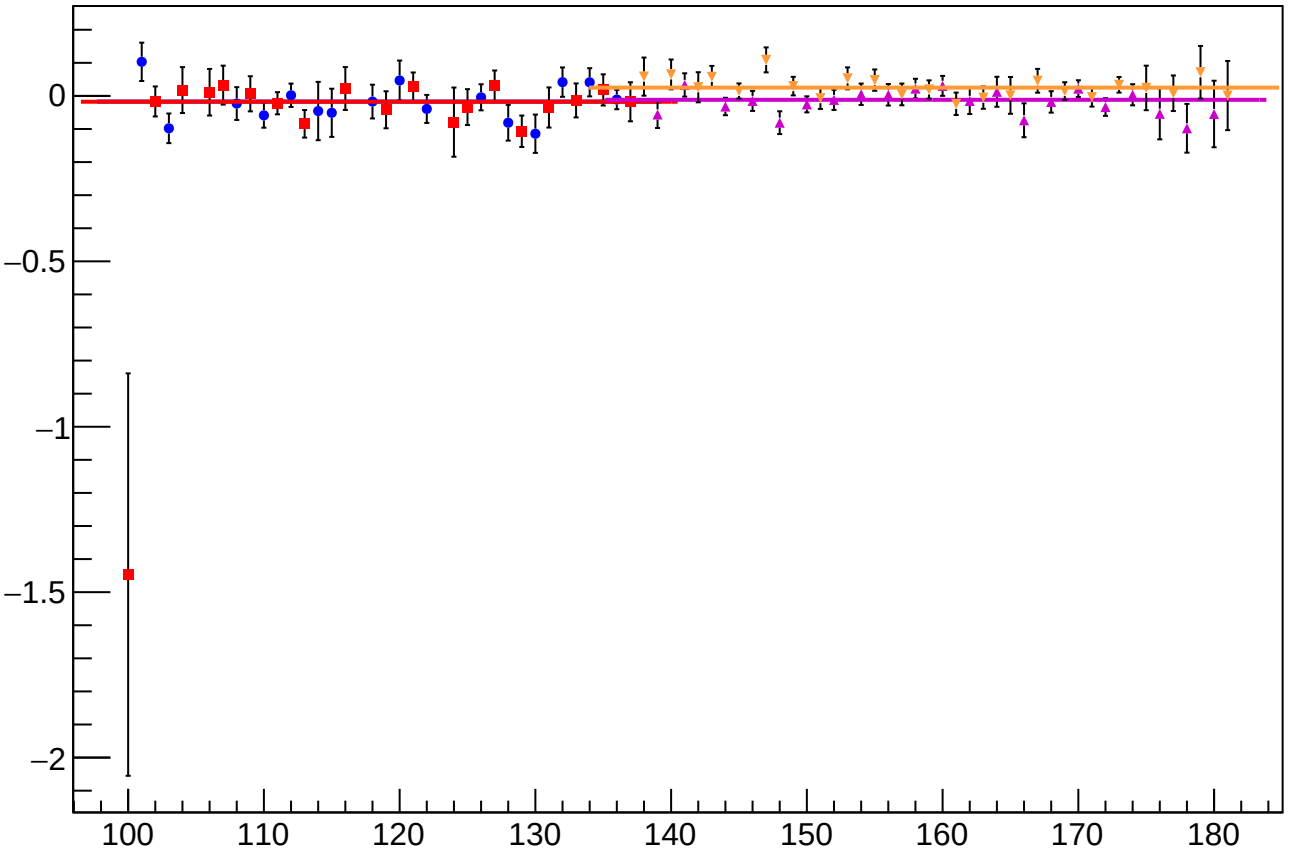
Left: 28.792+/-0.004 $\chi^2$/NDF: 5255443.5/43

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.3/34

In: 28.850+/-0.004 $\chi^2$/NDF:2756183.5/36

Out: 29.618+/-0.004 $\chi^2$/NDF:3708743.1/41

All: 29.232+/-0.003 $\chi^2$/NDF: 6480396.2/78




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.025+/-0.007 $\chi^2$/NDF:15.0/22

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.012+/-0.007 $\chi^2$/NDF:17.8/20

Left: 0.007+/-0.005 $\chi^2$/NDF: 45.6/43

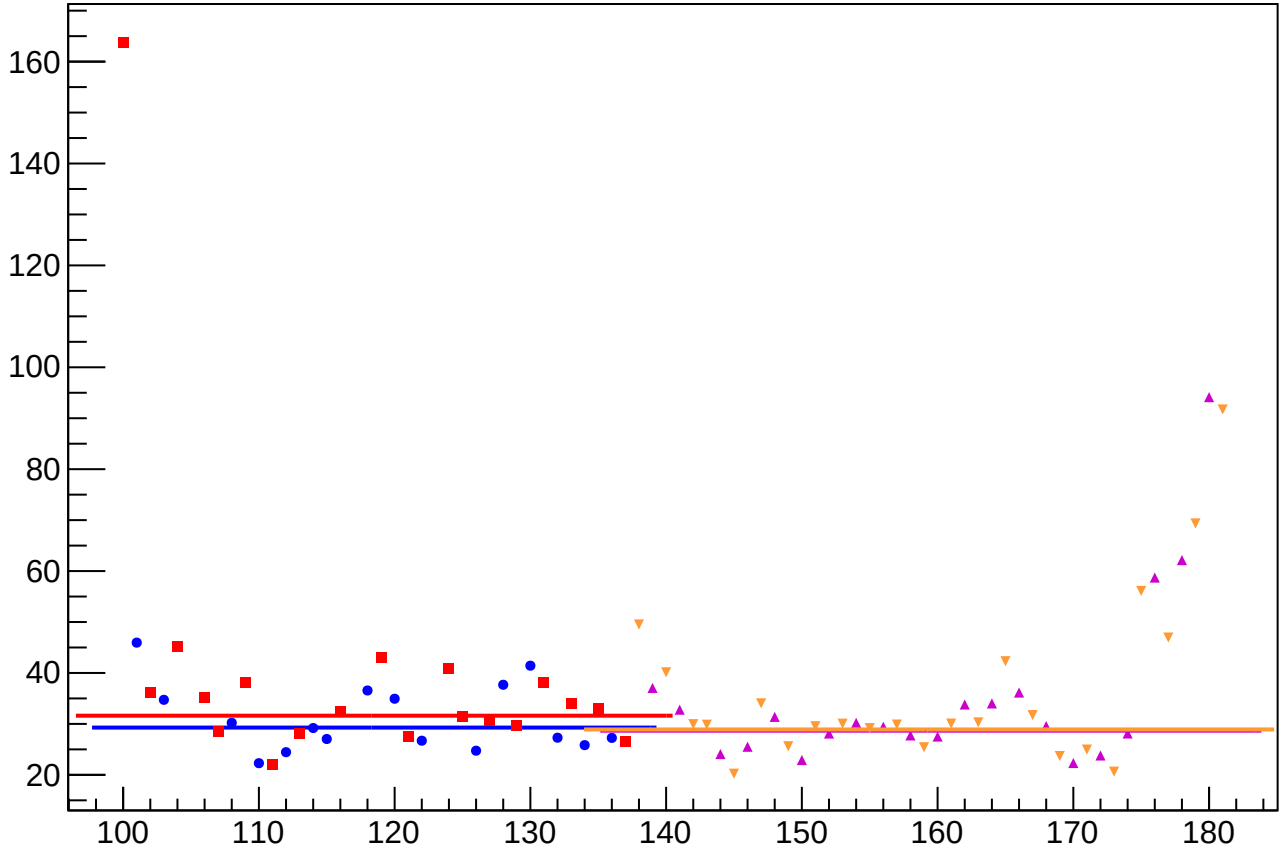
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.013+/-0.006 $\chi^2$/NDF:36.8/36

Out: 0.014+/-0.006 $\chi^2$/NDF:41.0/41

All: 0.000+/-0.004 $\chi^2$/NDF: 87.5/78

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.9/15

Left Out: 28.910+/-0.005 $\chi^2$/NDF:3062879.3/22

Right Out: 31.613+/-0.009 $\chi^2$/NDF: 572190.6/18

Left In: 28.670+/-0.005 $\chi^2$/NDF:2191478.7/20

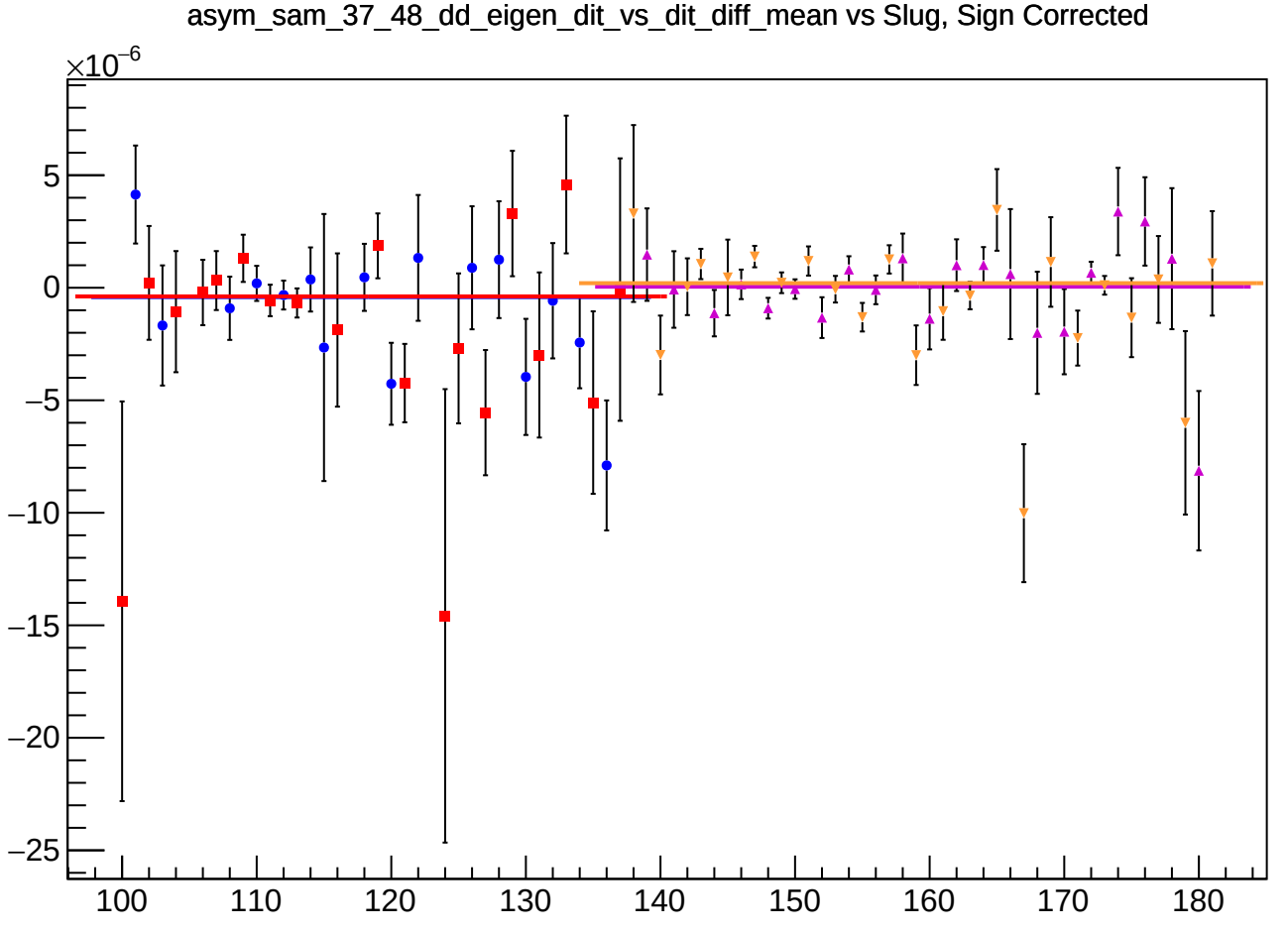
Left: 28.792+/-0.004 $\chi^2$/NDF: 5255443.5/43

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.3/34

In: 28.850+/-0.004 $\chi^2$/NDF:2756183.5/36

Out: 29.618+/-0.004 $\chi^2$/NDF:3708743.1/41

All: 29.232+/-0.003 $\chi^2$/NDF: 6480396.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:52.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:28.7/20

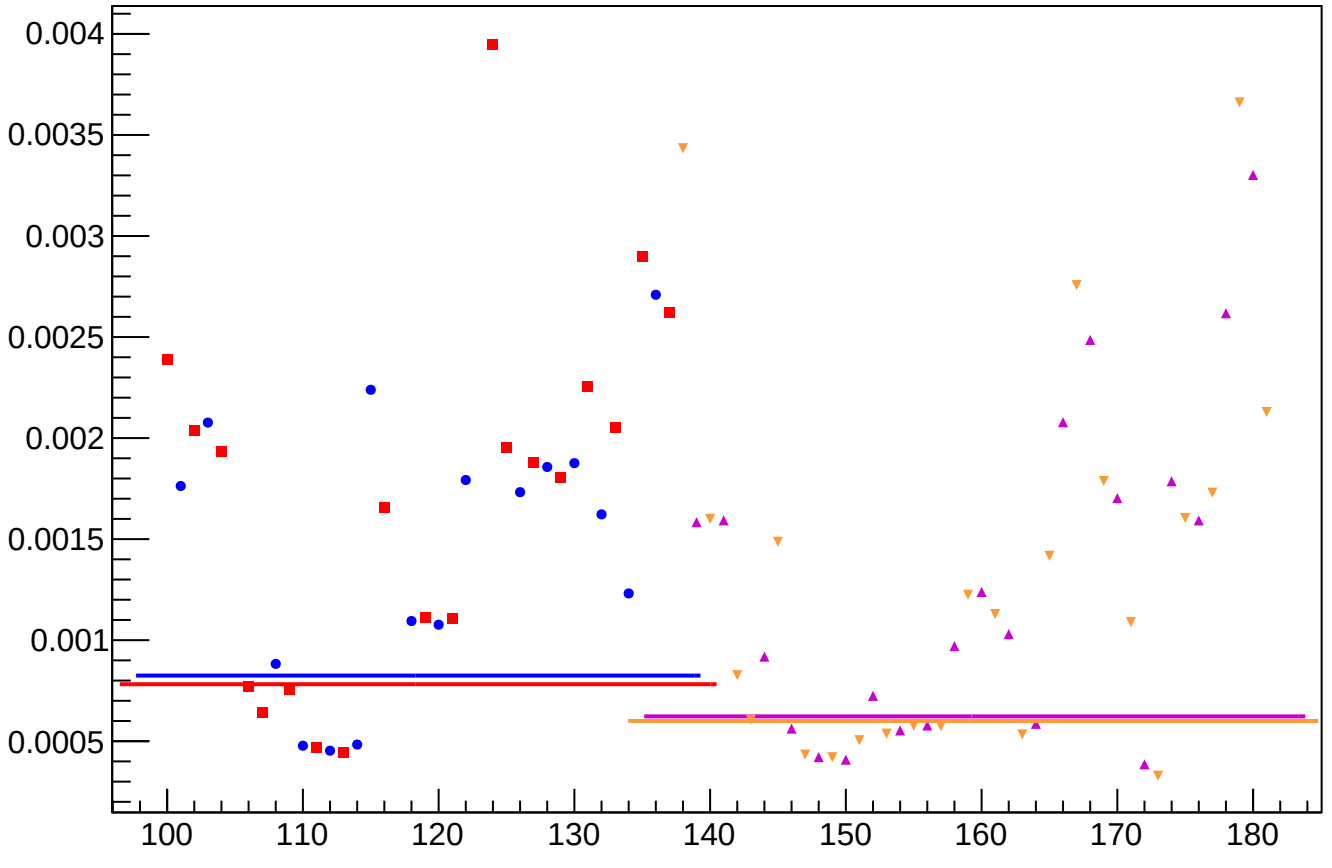
Left: 0.000+/-0.000 $\chi^2$/NDF: 81.4/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:51.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:79.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 131.4/78




Right In: 0.001+/-0.000 $\chi^2$/NDF: 4448725.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:10369207.1/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4638419.3/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:8802183.2/20

Left: 0.001+/-0.000 $\chi^2$/NDF: 19187678.2/43

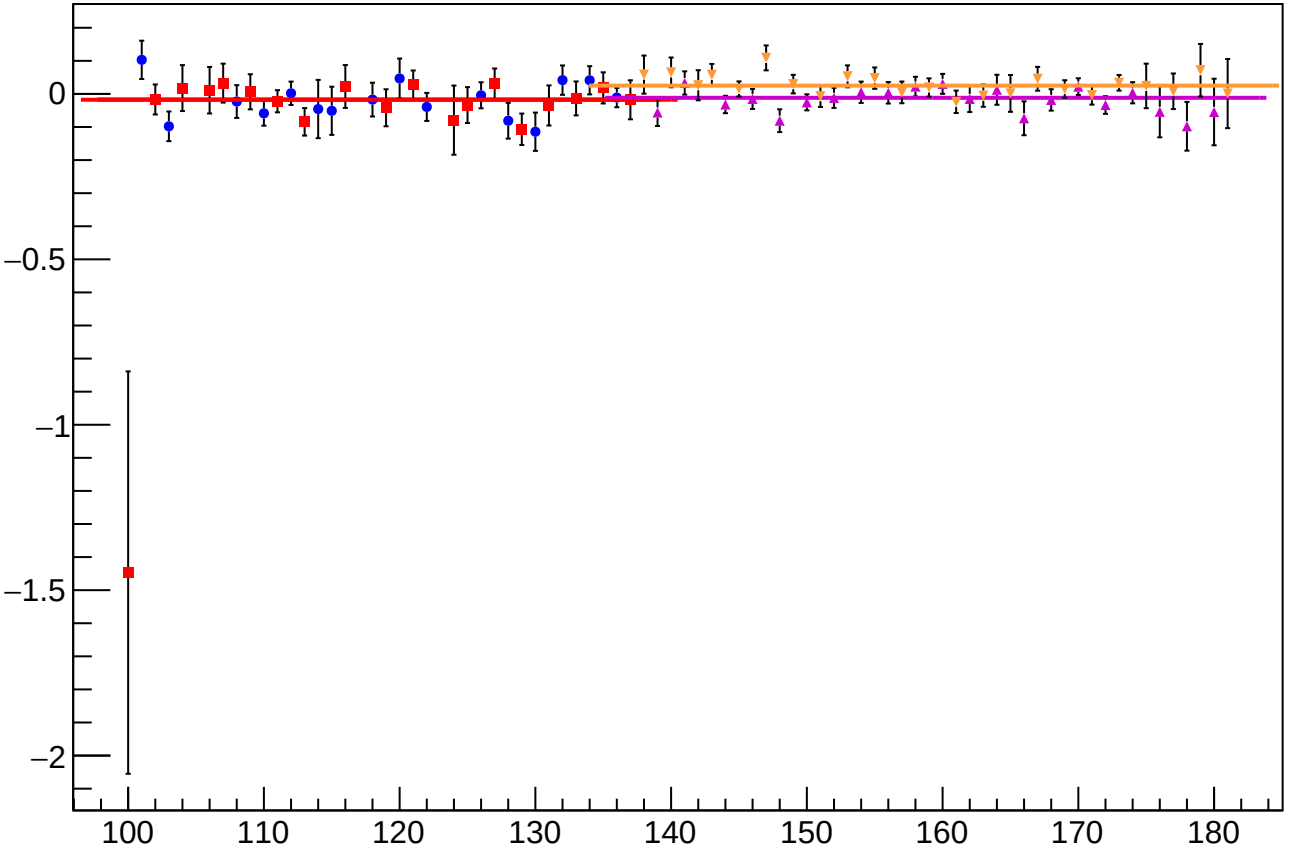
Right: 0.001+/-0.000 $\chi^2$/NDF: 9101271.0/34

In: 0.001+/-0.000 $\chi^2$/NDF:13727532.0/36

Out: 0.001+/-0.000 $\chi^2$/NDF:15447357.8/41

All: 0.001+/-0.000 $\chi^2$/NDF: 29205348.2/78

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.025+/-0.007 $\chi^2$/NDF:15.0/22

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.012+/-0.007 $\chi^2$/NDF:17.8/20

Left: 0.007+/-0.005 $\chi^2$/NDF: 45.6/43

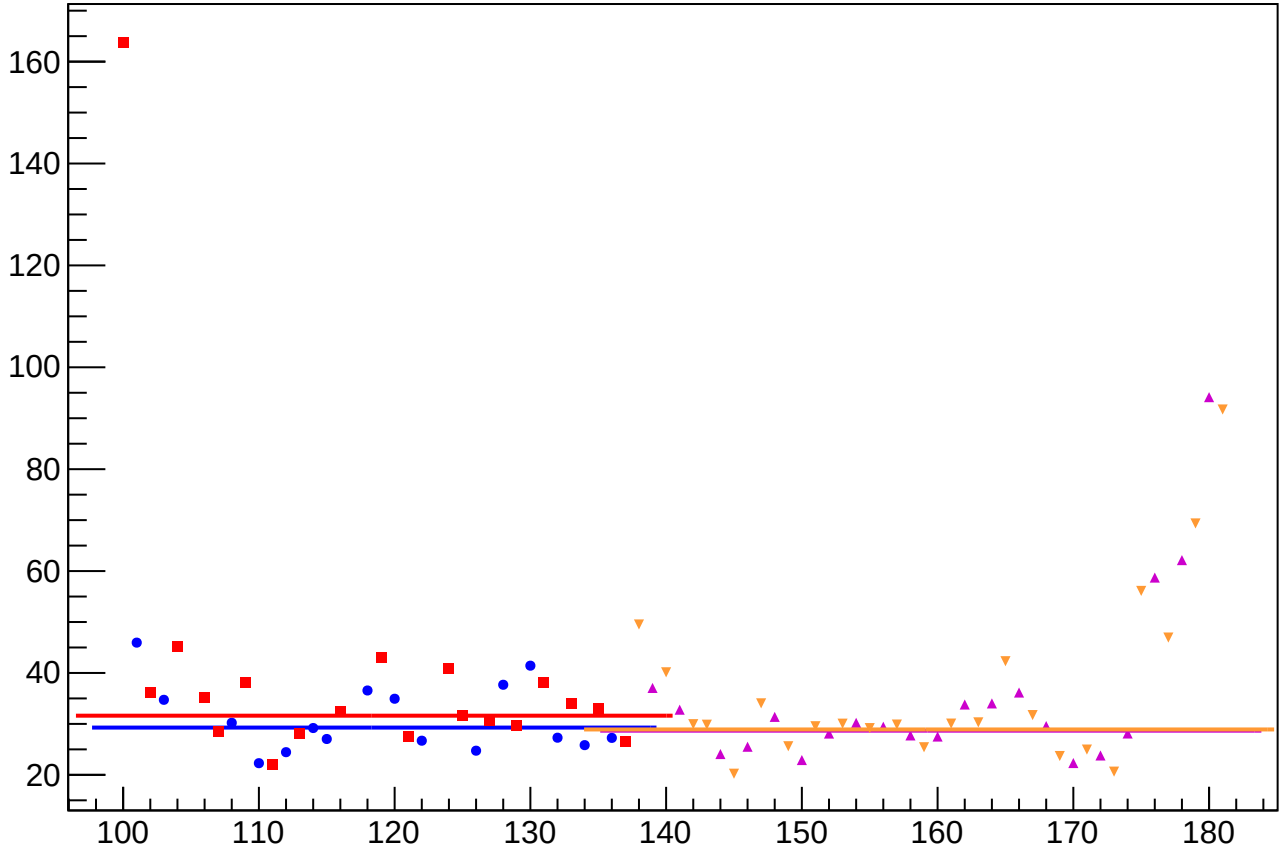
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.013+/-0.006 $\chi^2$/NDF:36.8/36

Out: 0.014+/-0.006 $\chi^2$/NDF:41.0/41

All: 0.000+/-0.004 $\chi^2$/NDF: 87.5/78

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.1/15

Left Out: 28.910+/-0.005 $\chi^2$/NDF:3062937.8/22

Right Out: 31.614+/-0.009 $\chi^2$/NDF: 572187.4/18

Left In: 28.670+/-0.005 $\chi^2$/NDF:2191435.8/20

Left: 28.792+/-0.004 $\chi^2$/NDF: 5255458.8/43

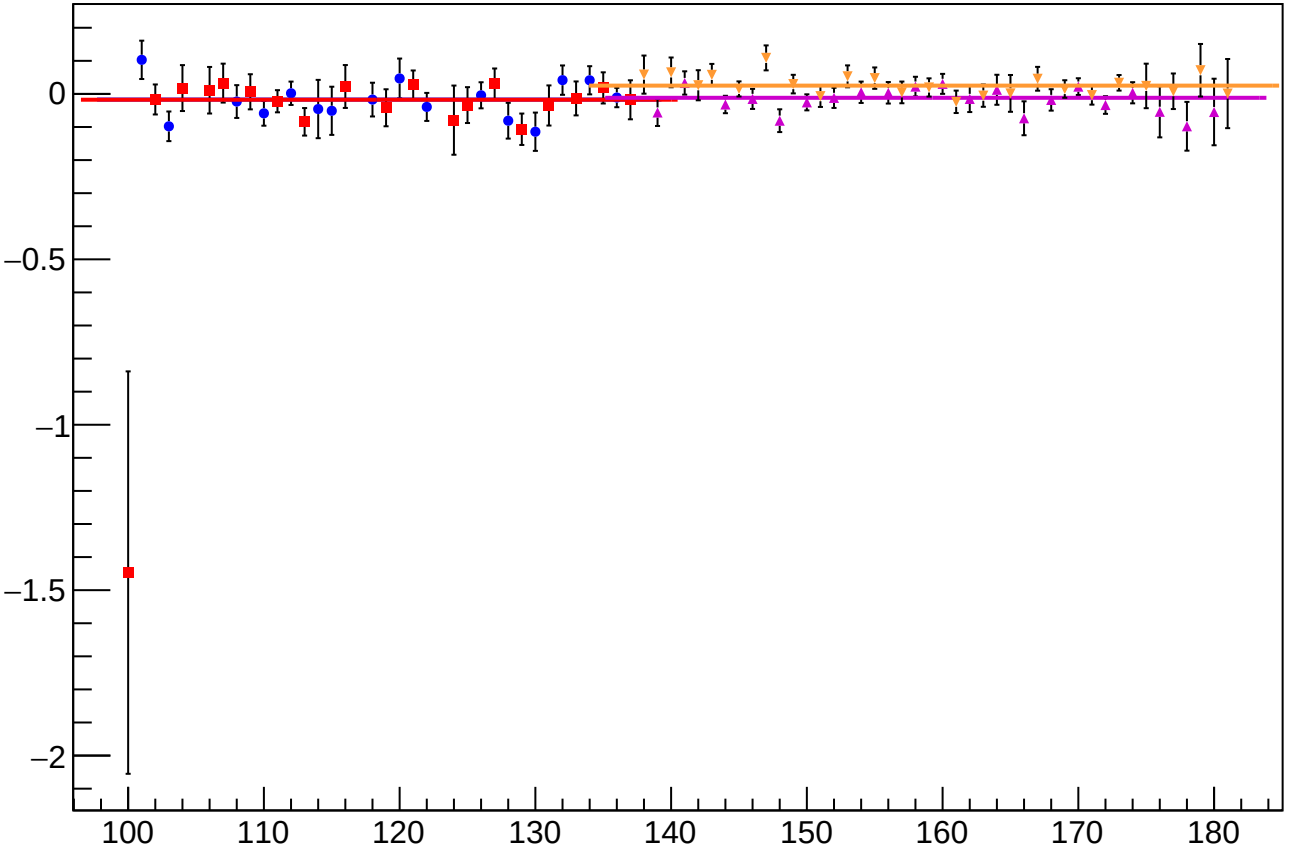
Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.0/34

In: 28.850+/-0.004 $\chi^2$/NDF:2756144.0/36

Out: 29.618+/-0.004 $\chi^2$/NDF:3708824.1/41

All: 29.232+/-0.003 $\chi^2$/NDF: 6480437.0/78

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.025+/-0.007 $\chi^2$/NDF:15.0/22

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.012+/-0.007 $\chi^2$/NDF:17.8/20

Left: 0.007+/-0.005 $\chi^2$/NDF: 45.6/43

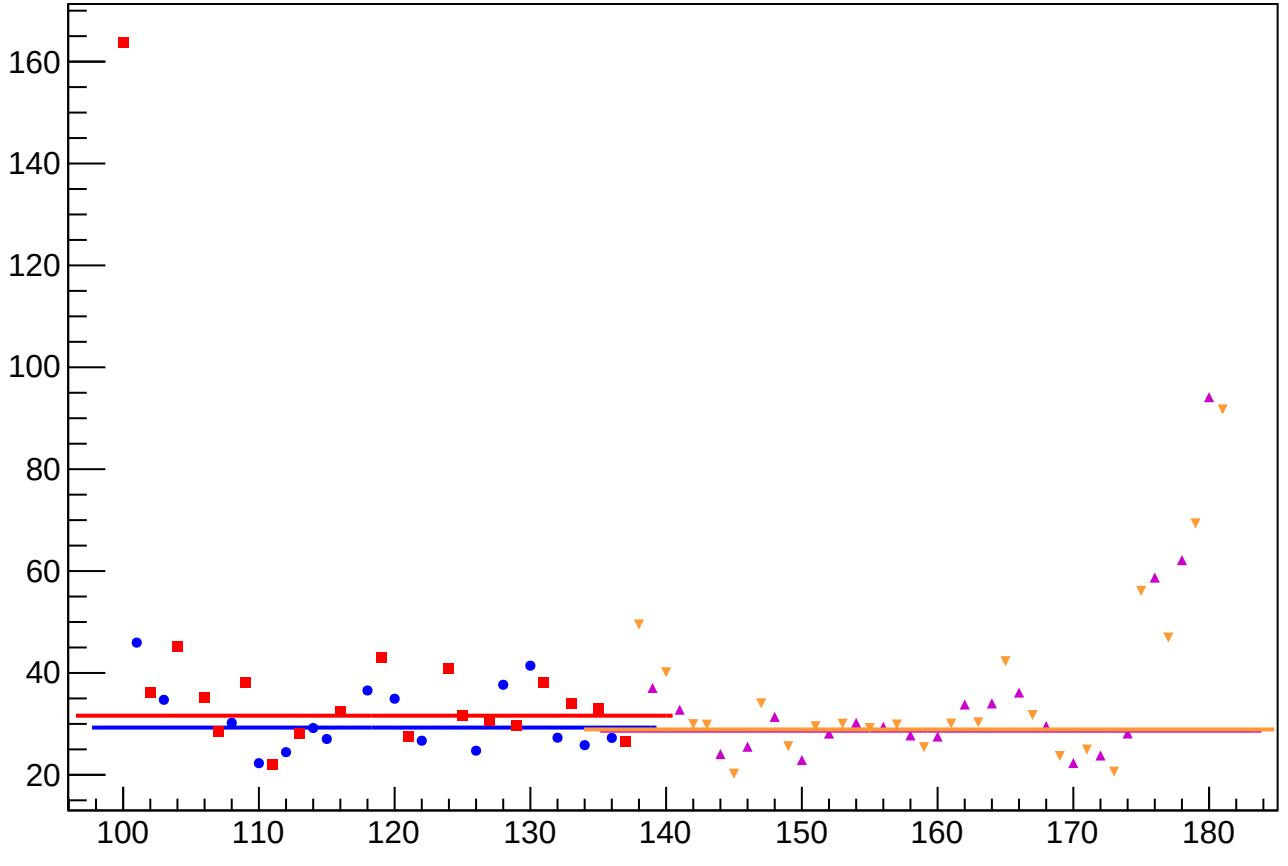
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.013+/-0.006 $\chi^2$/NDF:36.8/36

Out: 0.014+/-0.006 $\chi^2$/NDF:41.0/41

All: 0.000+/-0.004 $\chi^2$/NDF: 87.5/78

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.1/15

Left Out: 28.910+/-0.005 $\chi^2$/NDF:3062937.8/22

Right Out: 31.614+/-0.009 $\chi^2$/NDF: 572187.4/18

Left In: 28.670+/-0.005 $\chi^2$/NDF:2191435.8/20

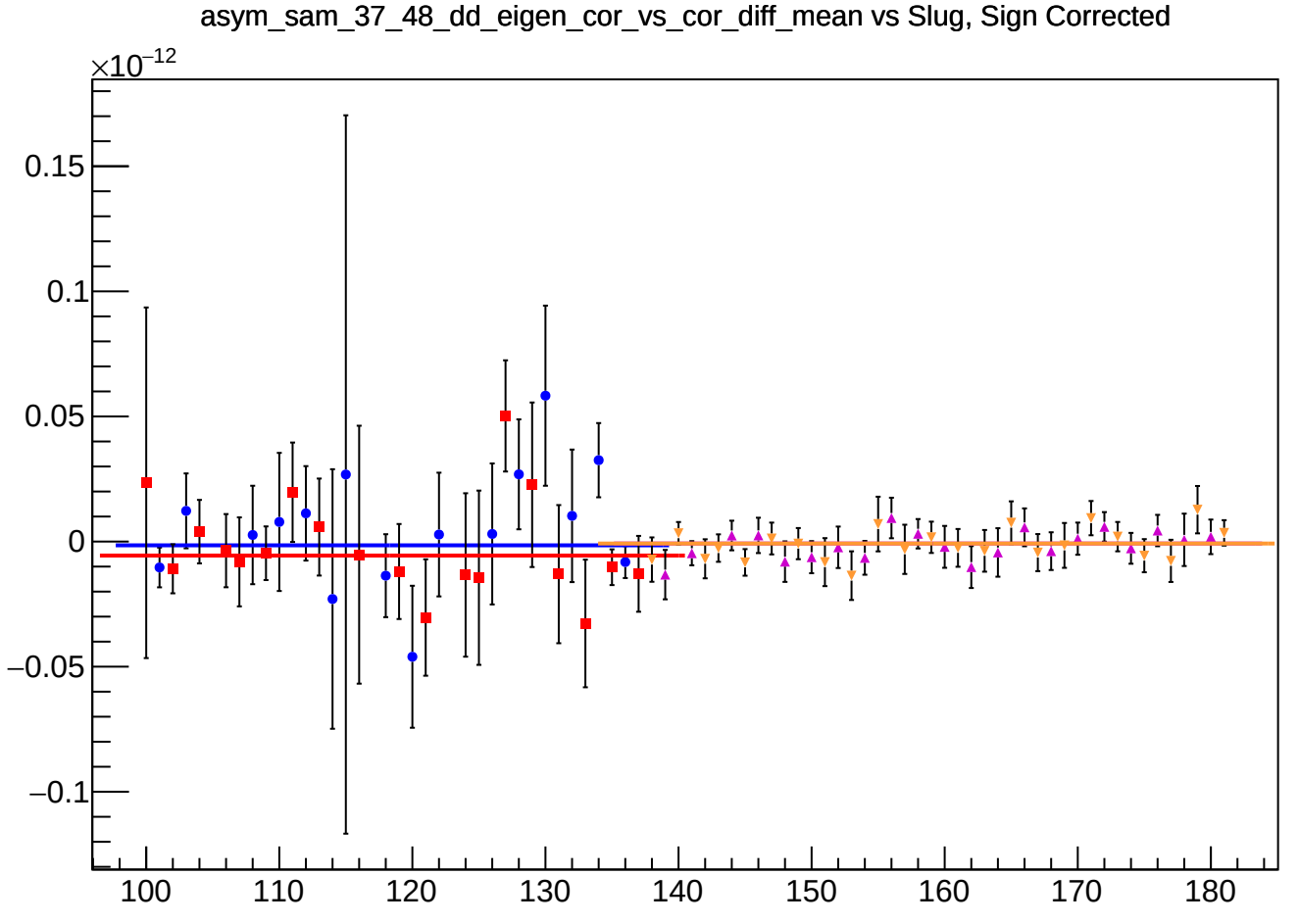
Left: 28.792+/-0.004 $\chi^2$/NDF: 5255458.8/43

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.0/34

In: 28.850+/-0.004 $\chi^2$/NDF:2756144.0/36

Out: 29.618+/-0.004 $\chi^2$/NDF:3708824.1/41

All: 29.232+/-0.003 $\chi^2$/NDF: 6480437.0/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:11.7/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 26.7/43

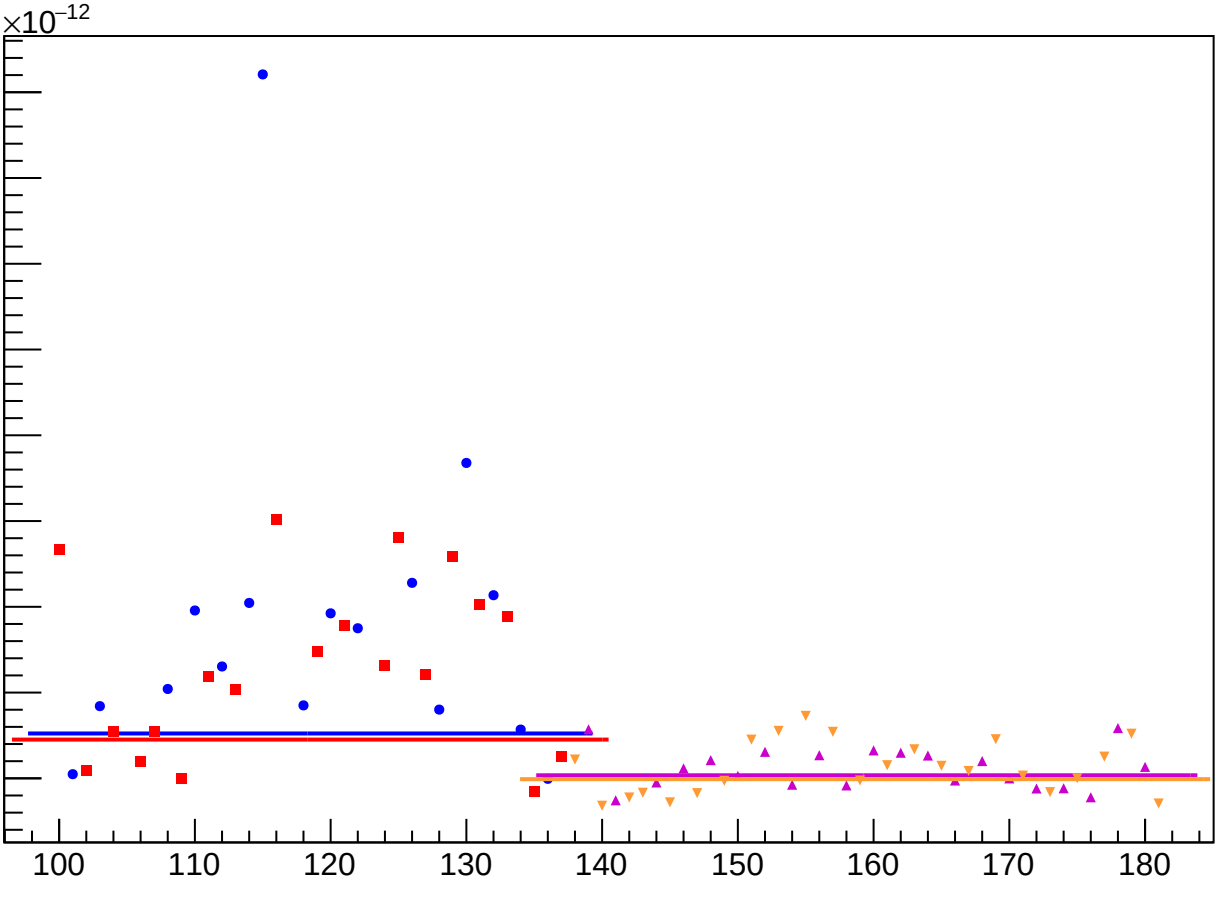
Right: -0.000+/-0.000 $\chi^2$/NDF: 30.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:28.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:29.8/41

All: -0.000+/-0.000 $\chi^2$/NDF: 58.5/78

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2021305.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1848465.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1998231.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:962245.5/20

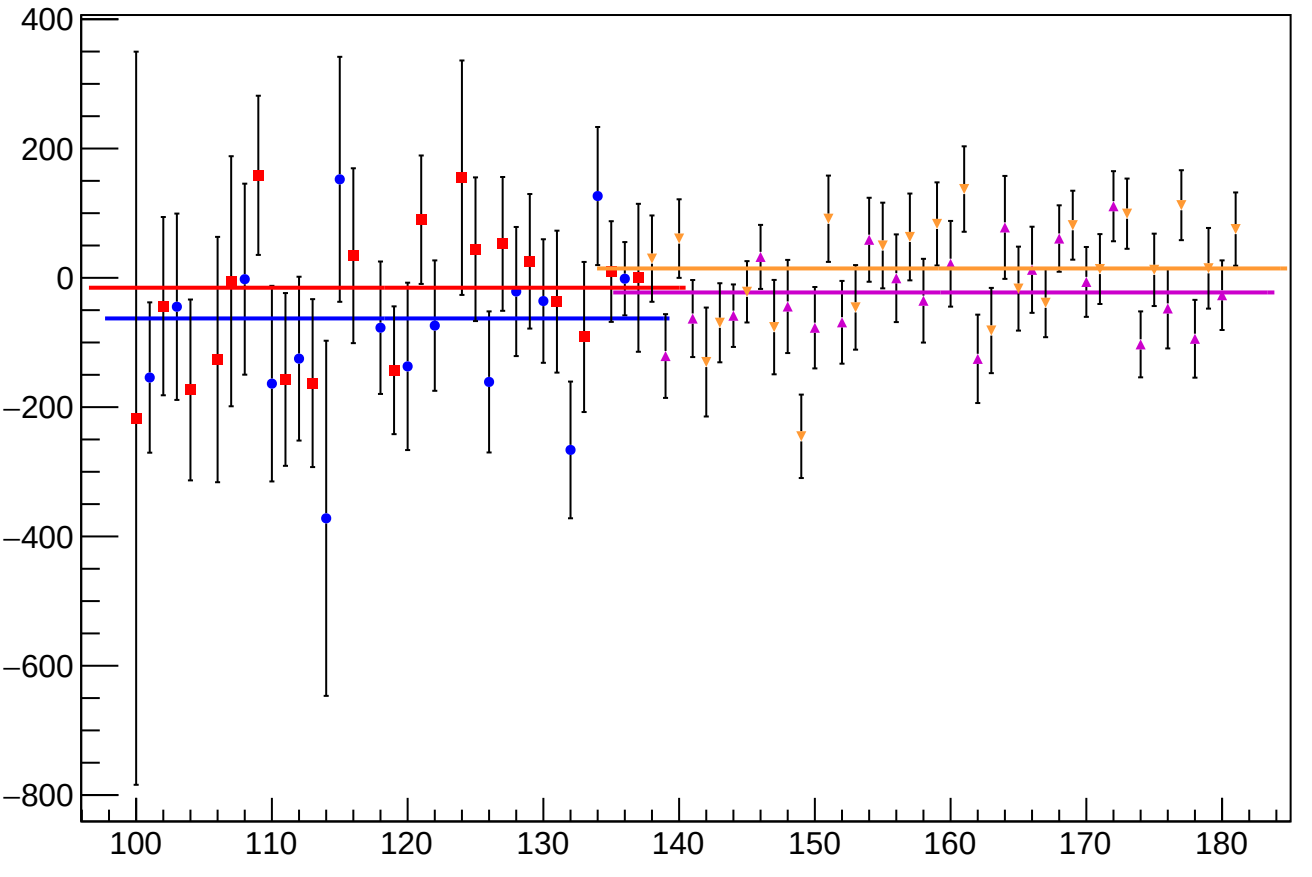
Left: 0.000+/-0.000 $\chi^2$/NDF: 2833873.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 4028618.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:3685517.4/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4537627.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8254993.6/78




Right In: -62.798+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: 14.509+/-12.662 $\chi^2$/NDF:43.2/22

Right Out: -15.288+/-27.770 $\chi^2$/NDF: 11.5/18

Left In: -22.617+/-13.029 $\chi^2$/NDF:25.1/20

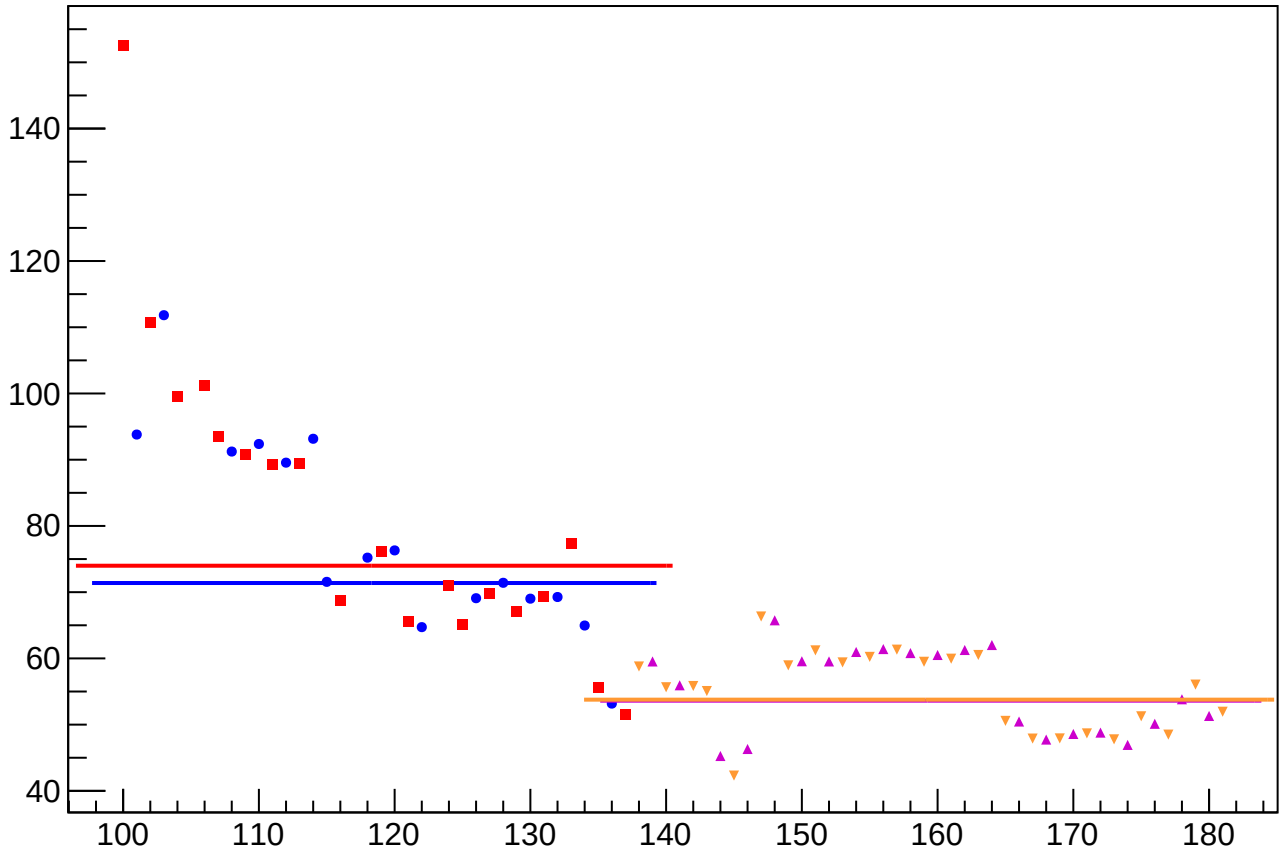
Left: -3.525+/-9.080 $\chi^2$/NDF: 72.4/43

Right: -39.524+/-19.436 $\chi^2$/NDF: 26.4/34

In: -30.110+/-11.751 $\chi^2$/NDF:40.3/36

Out: 9.380+/-11.521 $\chi^2$/NDF:55.6/41

All: -9.974+/-8.227 $\chi^2$/NDF: 101.7/78




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590909.3/15

Left Out: 53.771+/-0.009 $\chi^2$/NDF:465540.6/22

Right Out: 73.994+/-0.020 $\chi^2$/NDF: 638445.5/18

Left In: 53.614+/-0.009 $\chi^2$/NDF:468377.3/20

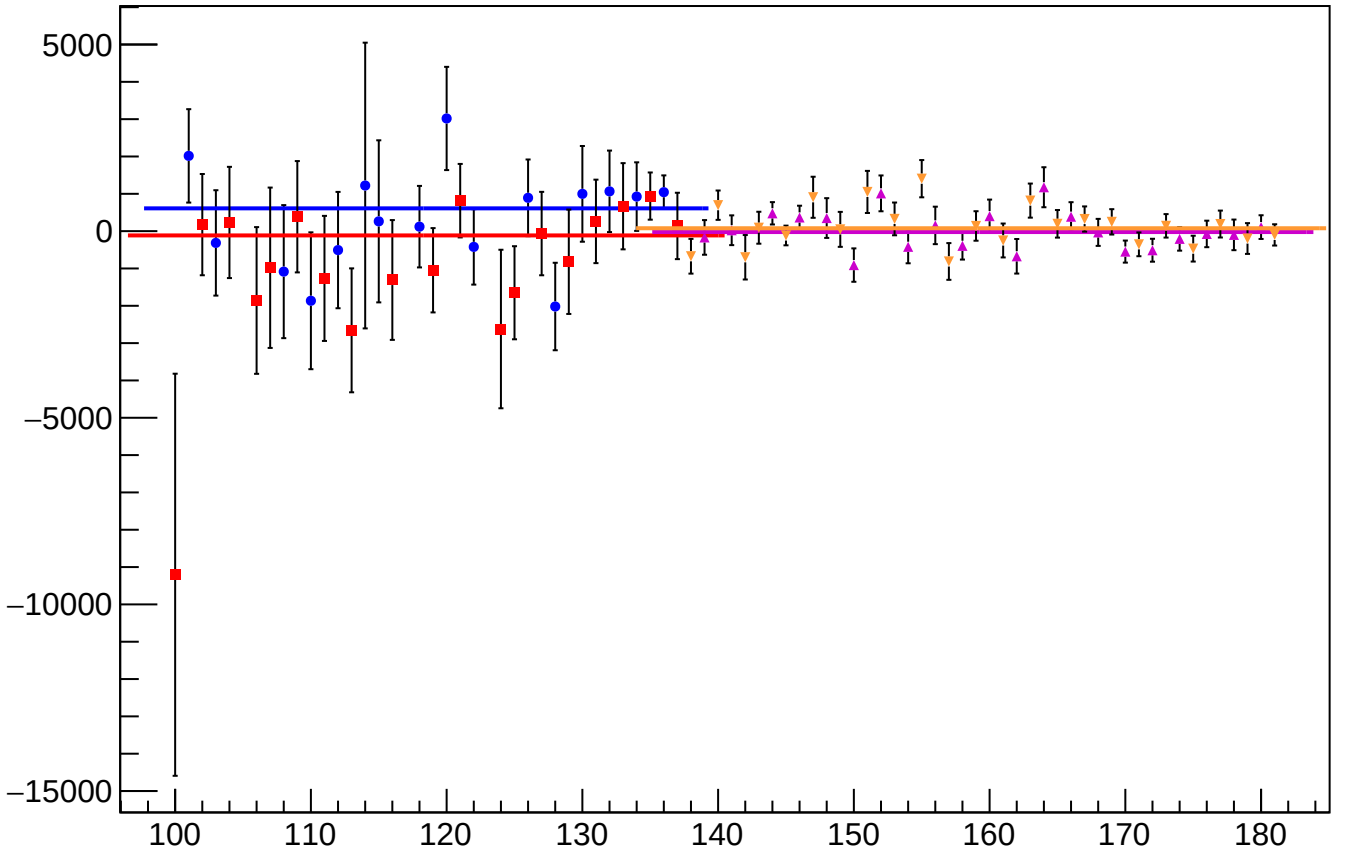
Left: 53.695+/-0.006 $\chi^2$/NDF: 934066.8/43

Right: 72.662+/-0.014 $\chi^2$/NDF: 1238370.4/34

In: 56.928+/-0.008 $\chi^2$/NDF:1752971.7/36

Out: 57.252+/-0.008 $\chi^2$/NDF:1982026.2/41

All: 57.093+/-0.006 $\chi^2$/NDF: 3735773.5/78




Right In: 610.561+/-266.802 $\chi^2$/NDF: 15.7/15

Left Out: 77.626+/-80.810 $\chi^2$/NDF:32.6/22

Right Out: -114.633+/-284.312 $\chi^2$/NDF: 15.6/18

Left In: -24.232+/-83.098 $\chi^2$/NDF:30.7/20

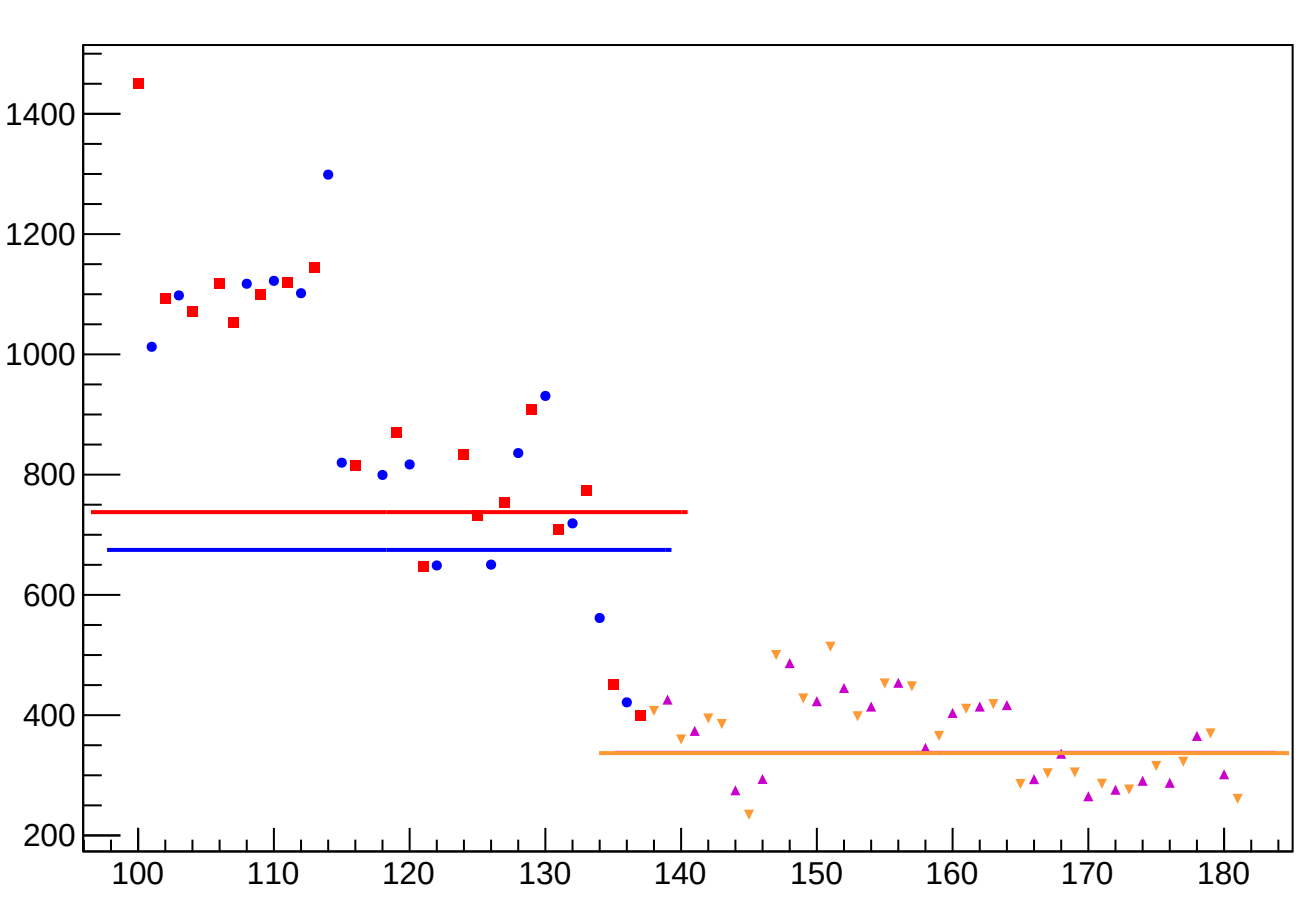
Left: 28.118+/-57.933 $\chi^2$/NDF: 64.1/43

Right: 270.981+/-194.553 $\chi^2$/NDF: 34.7/34

In: 31.902+/-79.339 $\chi^2$/NDF:51.6/36

Out: 63.255+/-77.731 $\chi^2$/NDF:48.6/41

All: 47.899+/-55.524 $\chi^2$/NDF: 100.2/78




Right In: 674.830+/-0.189 $\chi^2$/NDF: 1617598.7/15

Left Out: 336.943+/-0.057 $\chi^2$/NDF:1589481.7/22

Right Out: 737.674+/-0.201 $\chi^2$/NDF: 1516748.6/18

Left In: 337.376+/-0.059 $\chi^2$/NDF:1201088.4/20

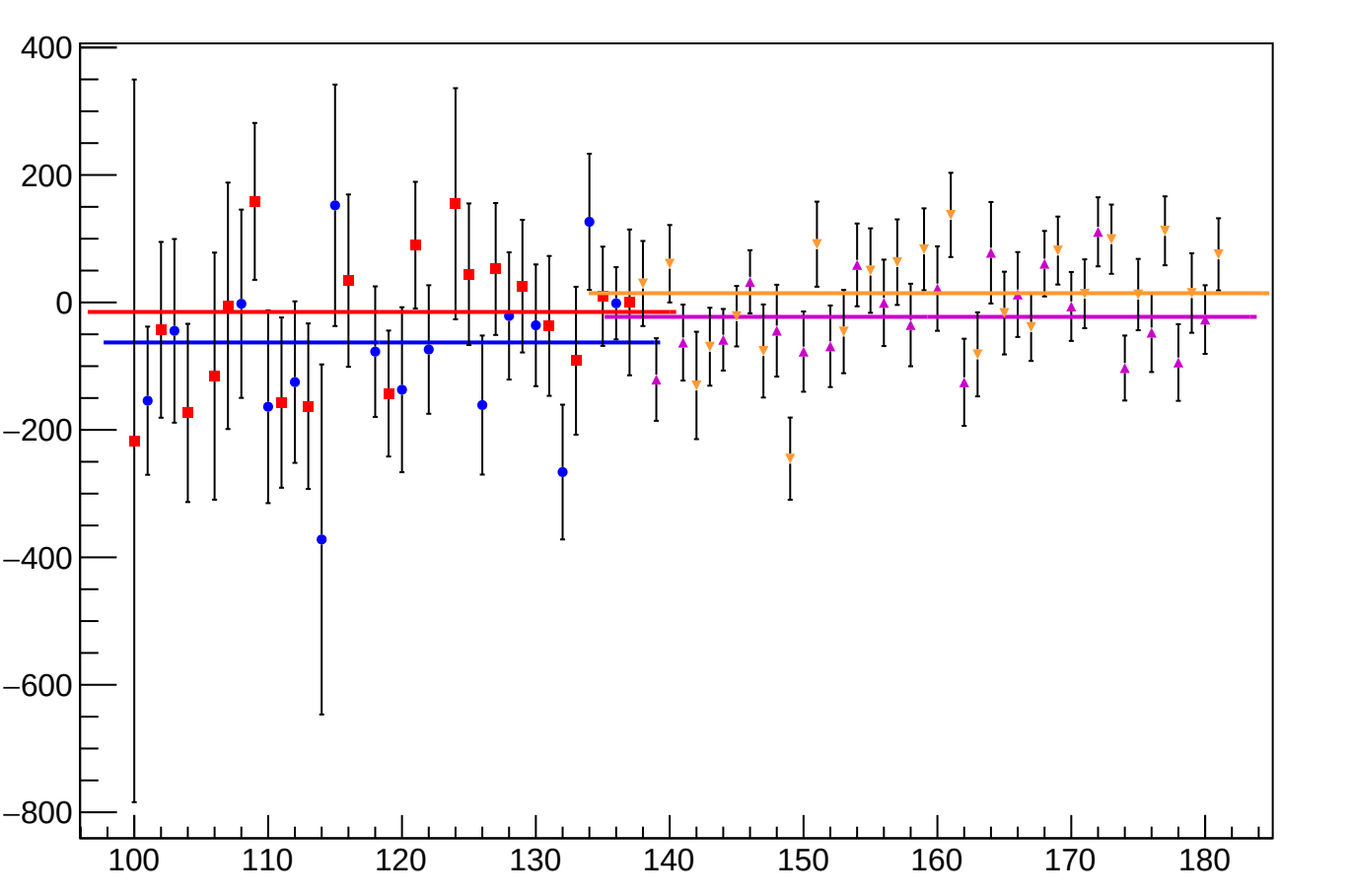
Left: 337.153+/-0.041 $\chi^2$/NDF: 2790597.9/43

Right: 704.257+/-0.138 $\chi^2$/NDF: 3186306.4/34

In: 367.216+/-0.056 $\chi^2$/NDF:5735262.0/36

Out: 366.897+/-0.055 $\chi^2$/NDF:6782483.2/41

All: 367.054+/-0.039 $\chi^2$/NDF: 12517761.7/78




Right In: -62.789+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: 14.510+/-12.662 $\chi^2$/NDF:43.2/22

Right Out: -14.932+/-27.783 $\chi^2$/NDF: 11.4/18

Left In: -22.616+/-13.029 $\chi^2$/NDF:25.1/20

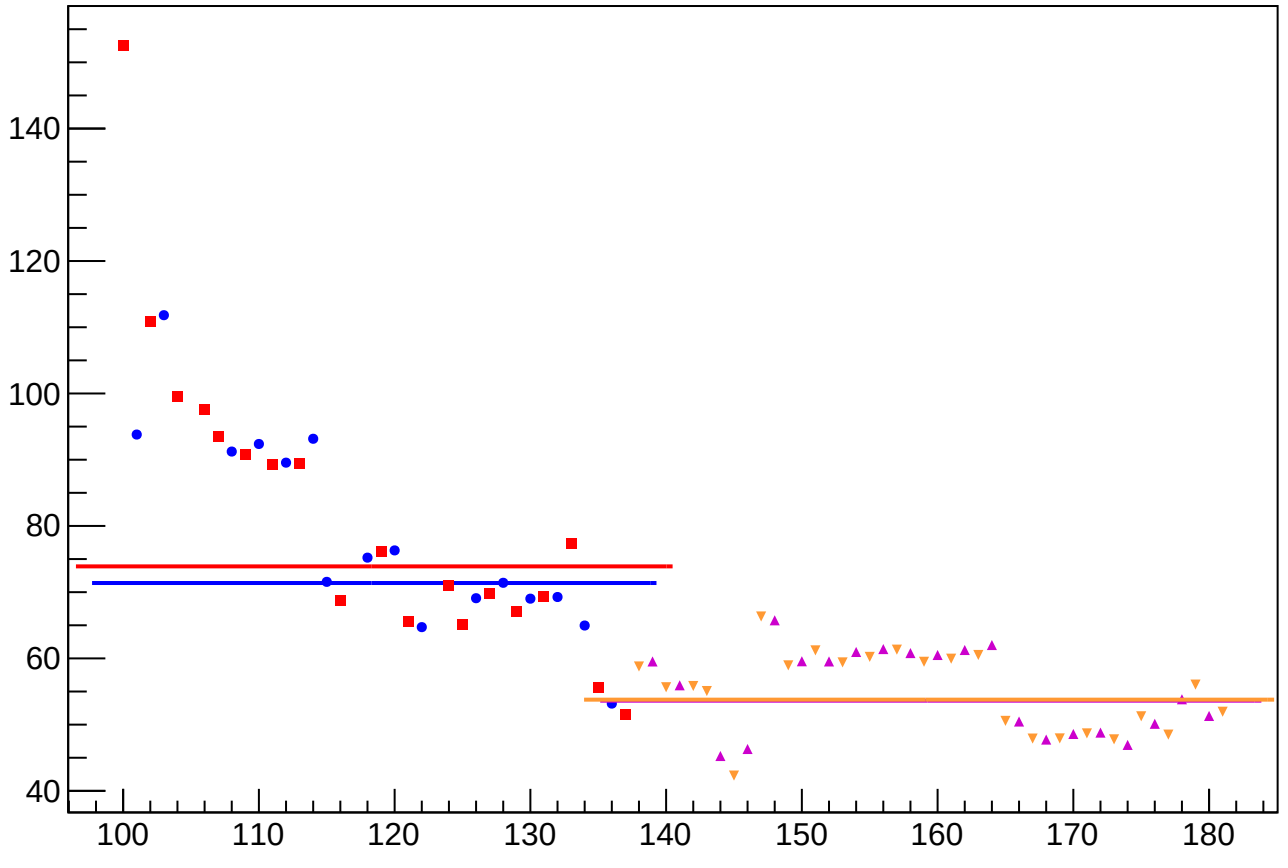
Left: -3.524+/-9.080 $\chi^2$/NDF: 72.4/43

Right: -39.357+/-19.441 $\chi^2$/NDF: 26.4/34

In: -30.108+/-11.751 $\chi^2$/NDF:40.3/36

Out: 9.446+/-11.522 $\chi^2$/NDF:55.5/41

All: -9.941+/-8.227 $\chi^2$/NDF: 101.6/78




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590911.7/15

Left Out: 53.771+/-0.009 $\chi^2$/NDF:465540.6/22

Right Out: 73.894+/-0.020 $\chi^2$/NDF: 627014.3/18

Left In: 53.614+/-0.009 $\chi^2$/NDF:468377.3/20

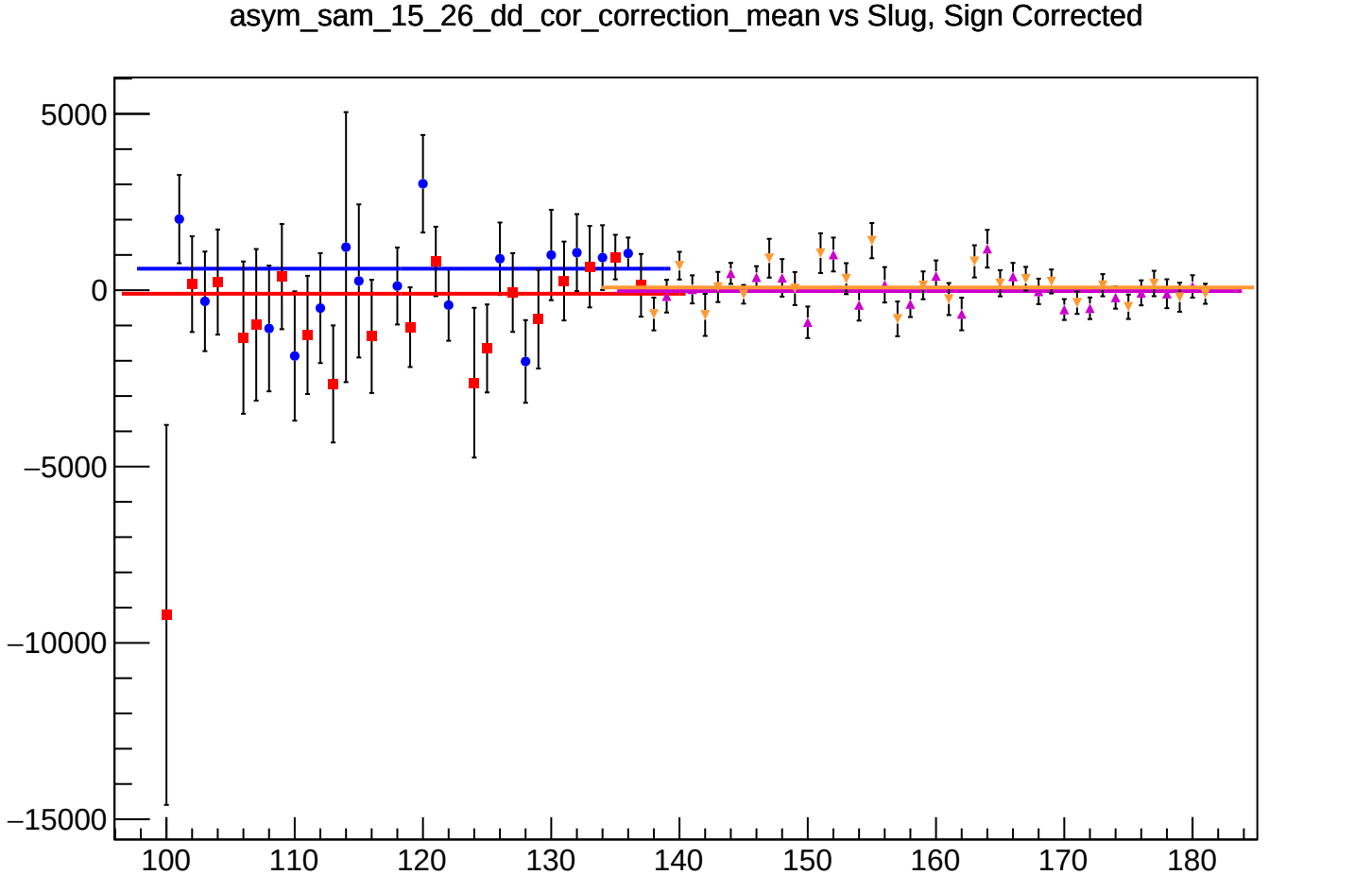
Left: 53.695+/-0.006 $\chi^2$/NDF: 934066.8/43

Right: 72.613+/-0.014 $\chi^2$/NDF: 1226261.8/34

In: 56.928+/-0.008 $\chi^2$/NDF:1752974.3/36

Out: 57.232+/-0.008 $\chi^2$/NDF:1961268.5/41

All: 57.083+/-0.006 $\chi^2$/NDF: 3714925.9/78




Right In: 610.549+/-266.803 $\chi^2$/NDF: 15.7/15

Left Out: 77.624+/-80.810 $\chi^2$/NDF:32.6/22

Right Out: -99.555+/-284.831 $\chi^2$/NDF: 15.1/18

Left In: -24.235+/-83.098 $\chi^2$/NDF:30.7/20

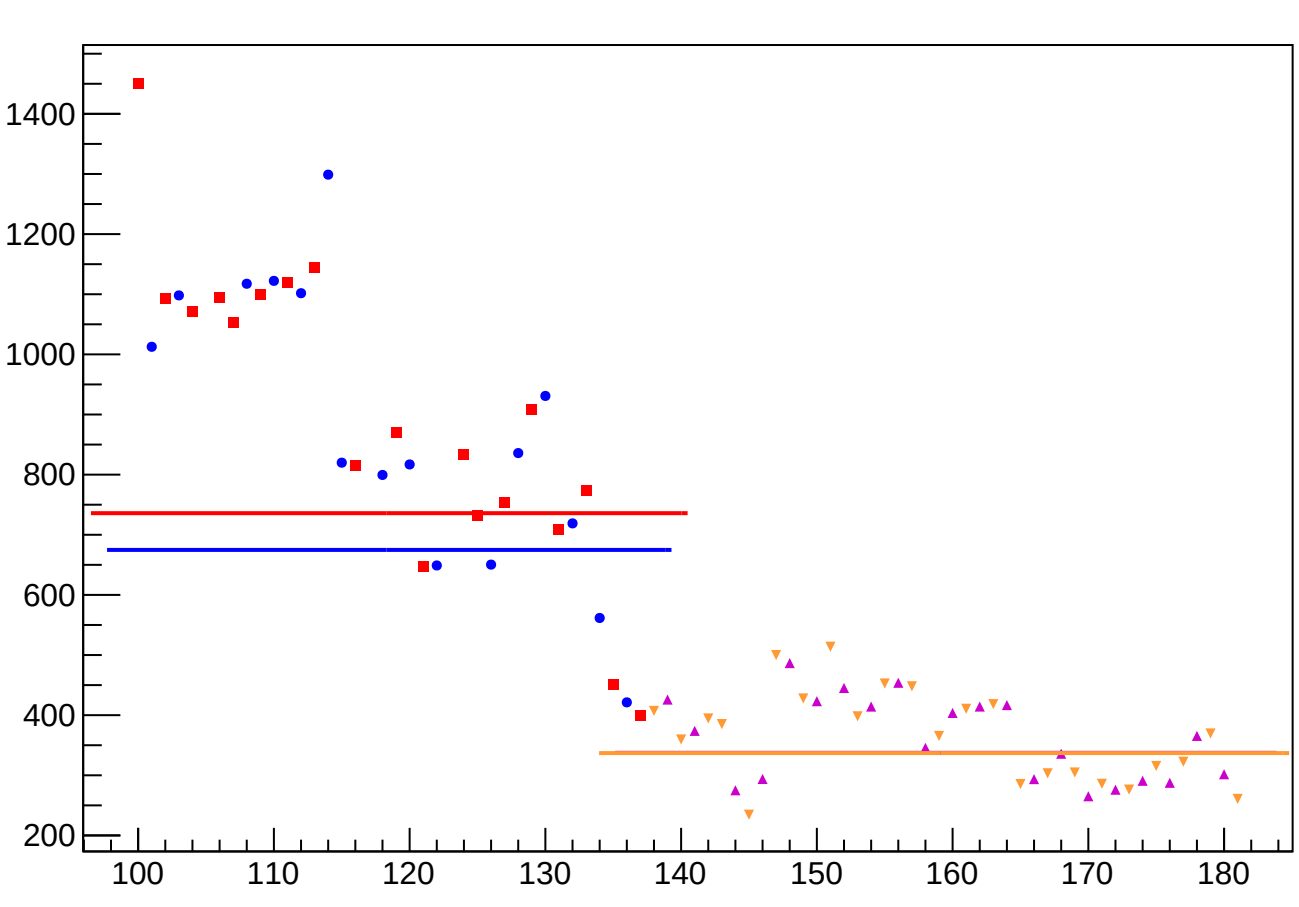
Left: 28.116+/-57.933 $\chi^2$/NDF: 64.1/43

Right: 278.680+/-194.720 $\chi^2$/NDF: 34.1/34

In: 31.898+/-79.339 $\chi^2$/NDF:51.6/36

Out: 64.425+/-77.742 $\chi^2$/NDF:48.1/41

All: 48.492+/-55.528 $\chi^2$/NDF: 99.7/78




Right In: 674.831+/-0.189 $\chi^2$/NDF: 1617624.1/15

Left Out: 336.943+/-0.057 $\chi^2$/NDF:1589486.4/22

Right Out: 735.919+/-0.201 $\chi^2$/NDF: 1496977.2/18

Left In: 337.375+/-0.059 $\chi^2$/NDF:1201099.7/20

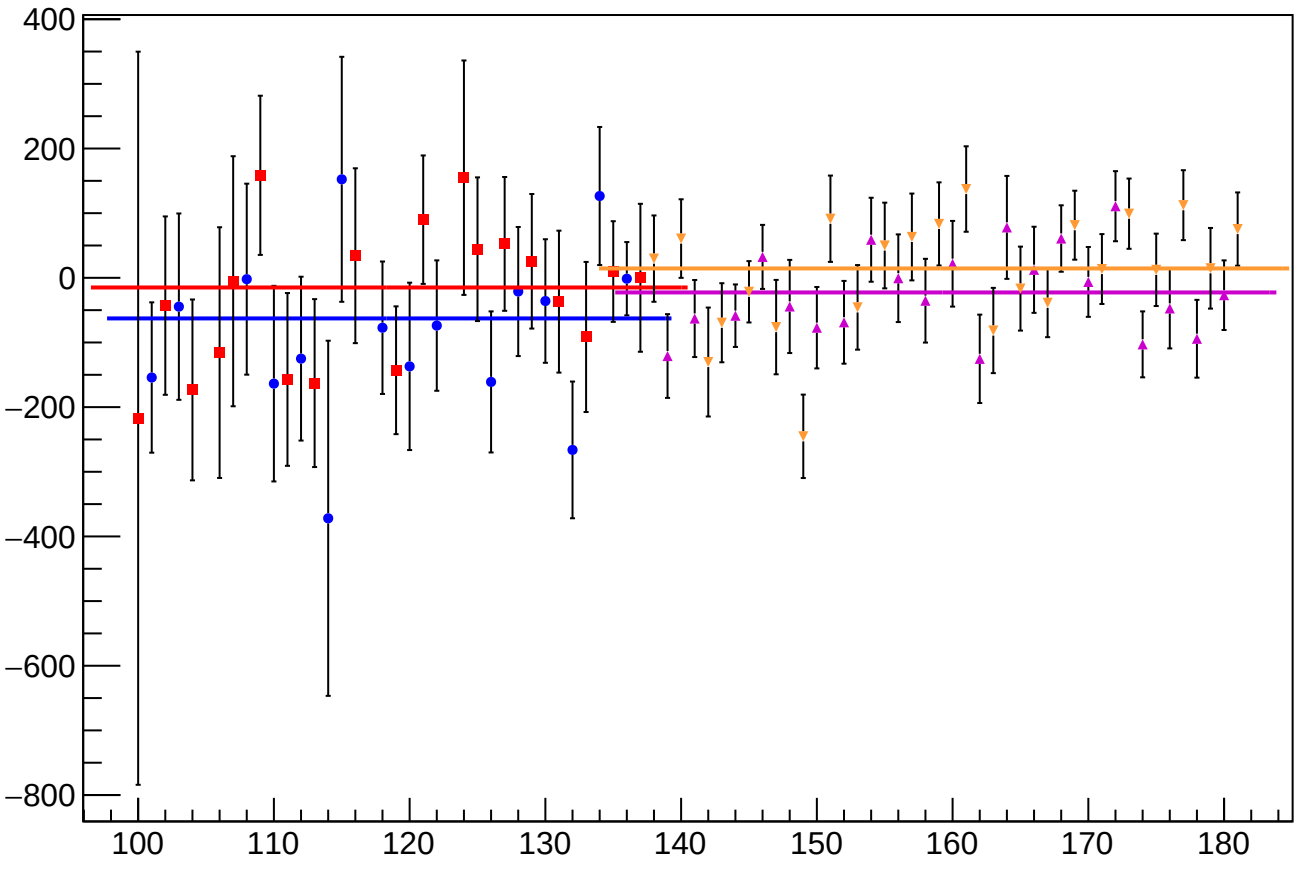
Left: 337.153+/-0.041 $\chi^2$/NDF: 2790613.9/43

Right: 703.381+/-0.138 $\chi^2$/NDF: 3163603.4/34

In: 367.216+/-0.056 $\chi^2$/NDF:5735299.0/36

Out: 366.666+/-0.055 $\chi^2$/NDF:6718308.9/41

All: 366.935+/-0.039 $\chi^2$/NDF: 12453657.0/78




Right In: -62.789+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: 14.510+/-12.662 $\chi^2$/NDF:43.2/22

Right Out: -14.932+/-27.783 $\chi^2$/NDF: 11.4/18

Left In: -22.616+/-13.029 $\chi^2$/NDF:25.1/20

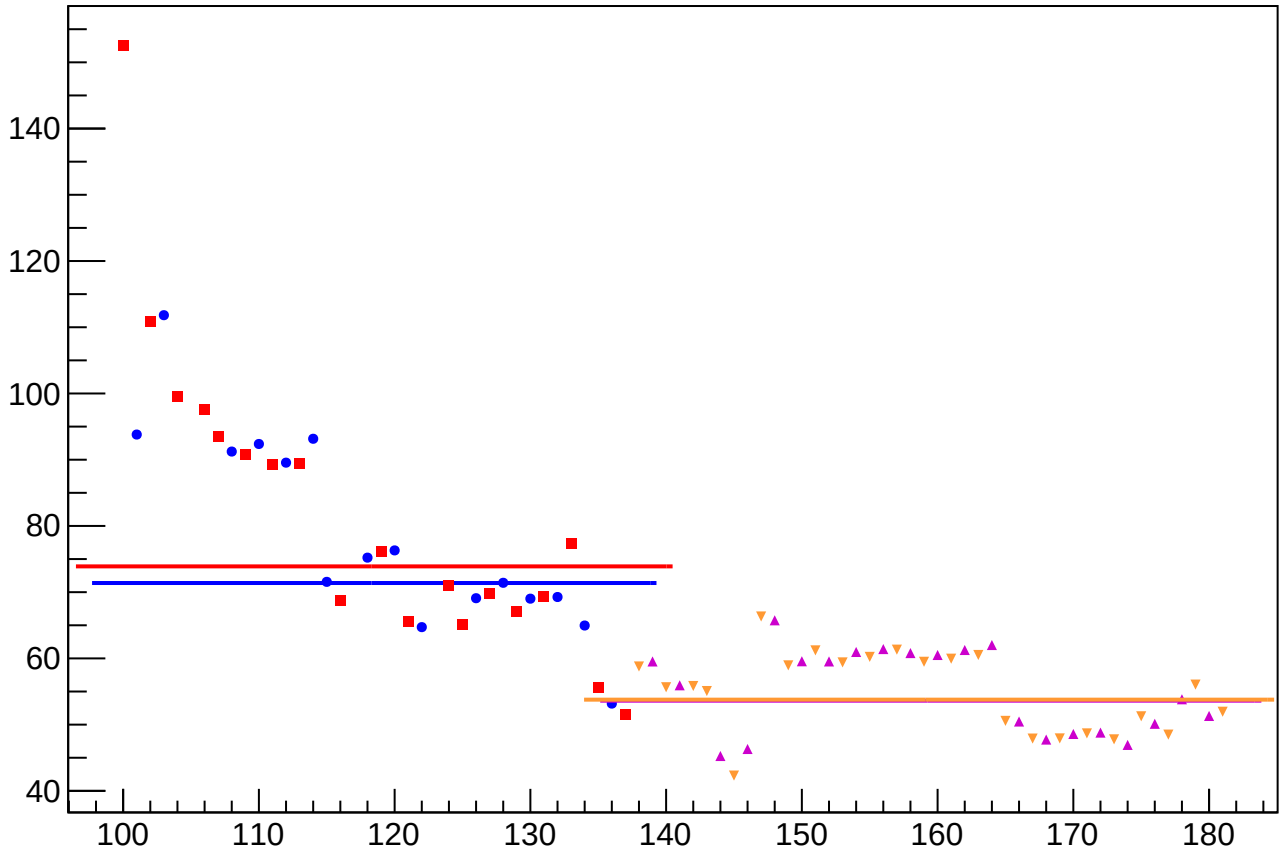
Left: -3.524+/-9.080 $\chi^2$/NDF: 72.4/43

Right: -39.357+/-19.441 $\chi^2$/NDF: 26.4/34

In: -30.108+/-11.751 $\chi^2$/NDF:40.3/36

Out: 9.446+/-11.522 $\chi^2$/NDF:55.5/41

All: -9.941+/-8.227 $\chi^2$/NDF: 101.6/78




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590911.7/15

Left Out: 53.771+/-0.009 $\chi^2$/NDF:465540.6/22

Right Out: 73.894+/-0.020 $\chi^2$/NDF: 627014.3/18

Left In: 53.614+/-0.009 $\chi^2$/NDF:468377.3/20

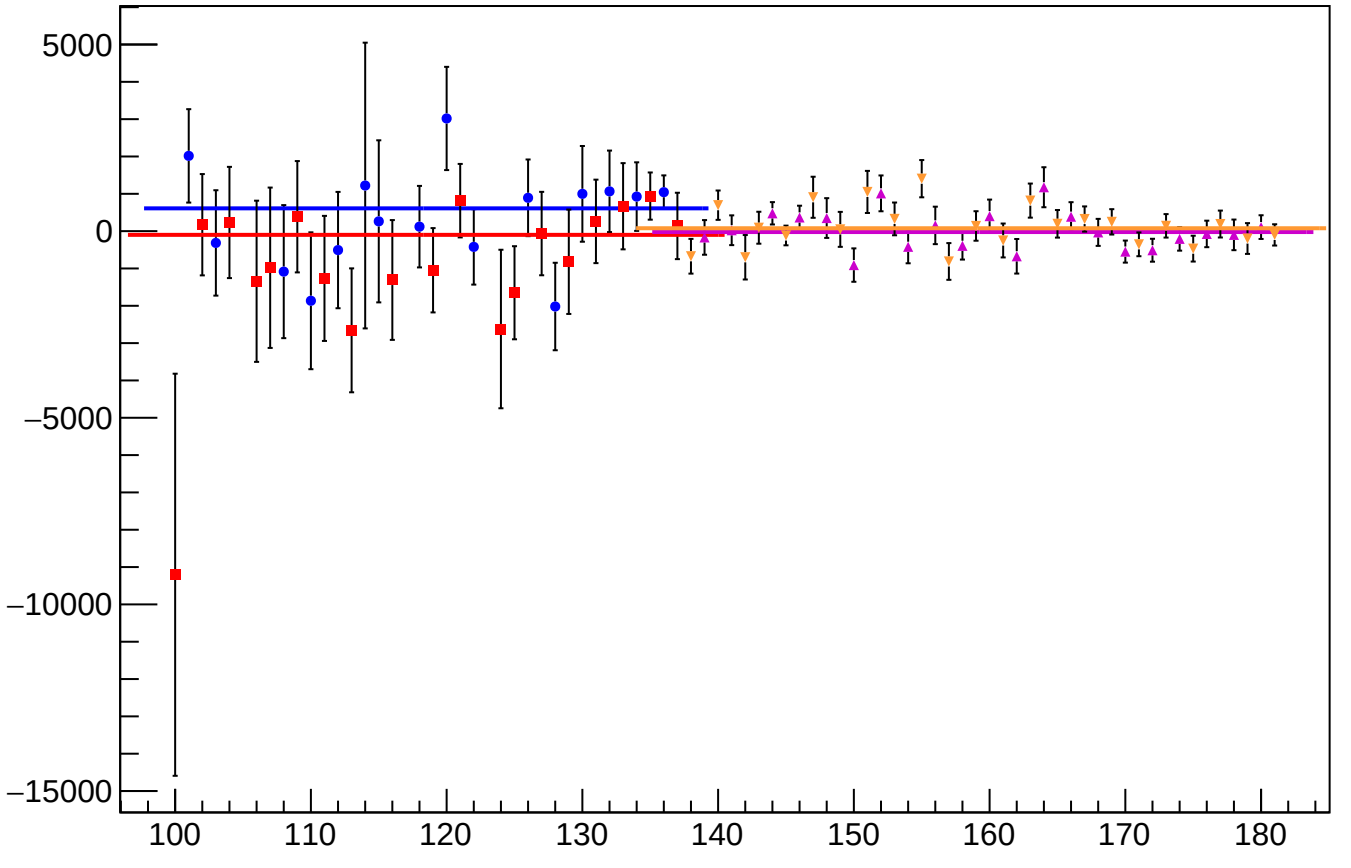
Left: 53.695+/-0.006 $\chi^2$/NDF: 934066.8/43

Right: 72.613+/-0.014 $\chi^2$/NDF: 1226261.8/34

In: 56.928+/-0.008 $\chi^2$/NDF:1752974.3/36

Out: 57.232+/-0.008 $\chi^2$/NDF:1961268.5/41

All: 57.083+/-0.006 $\chi^2$/NDF: 3714925.9/78




Right In: 610.549+/-266.803 $\chi^2$/NDF: 15.7/15

Left Out: 77.624+/-80.810 $\chi^2$/NDF:32.6/22

Right Out: -99.555+/-284.831 $\chi^2$/NDF: 15.1/18

Left In: -24.235+/-83.098 $\chi^2$/NDF:30.7/20

Left: 28.116+/-57.933 $\chi^2$/NDF: 64.1/43

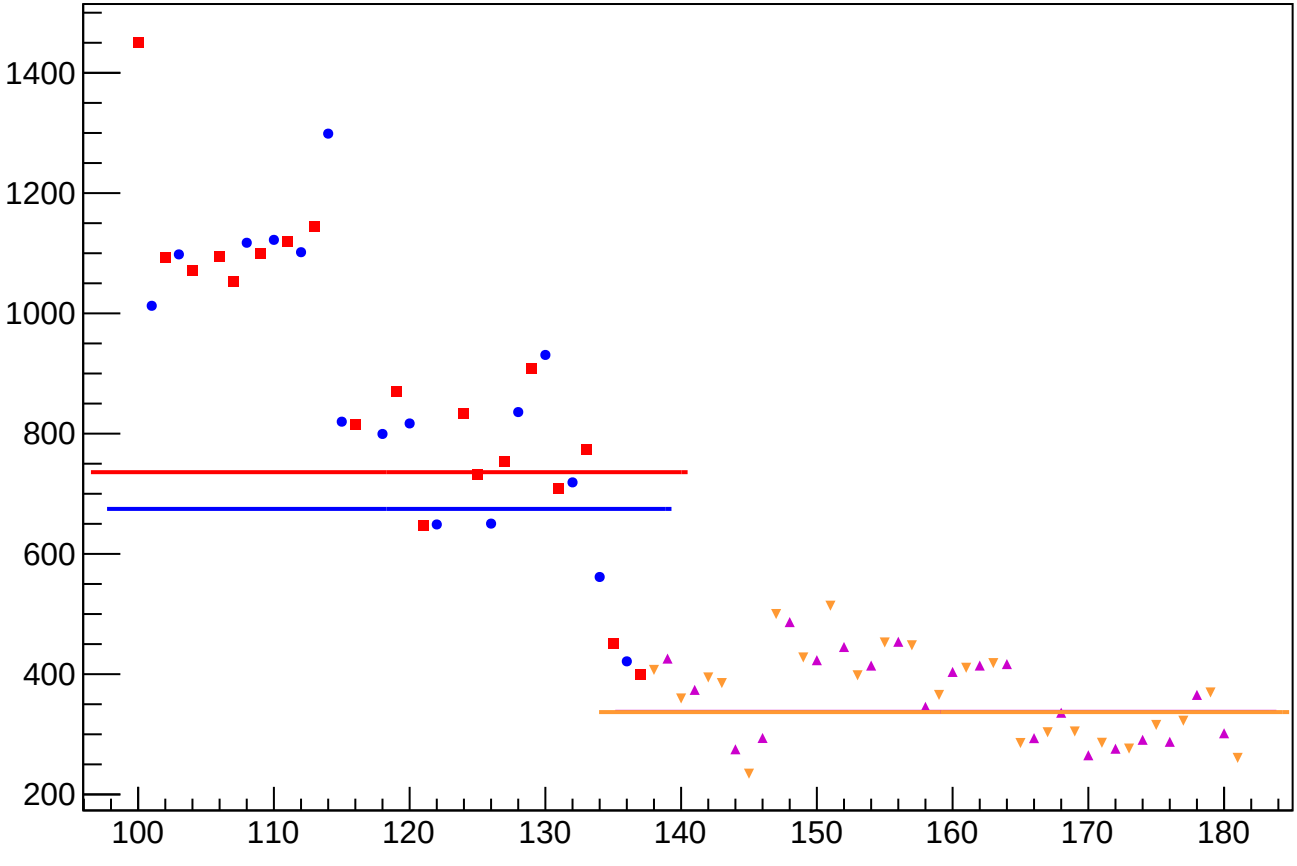
Right: 278.680+/-194.720 $\chi^2$/NDF: 34.1/34

In: 31.898+/-79.339 $\chi^2$/NDF:51.6/36

Out: 64.425+/-77.742 $\chi^2$/NDF:48.1/41

All: 48.492+/-55.528 $\chi^2$/NDF: 99.7/78

asym_sam_15_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 674.831+/-0.189 $\chi^2$/NDF: 1617624.1/15

Left Out: 336.943+/-0.057 $\chi^2$/NDF:1589486.4/22

Right Out: 735.919+/-0.201 $\chi^2$/NDF: 1496977.2/18

Left In: 337.375+/-0.059 $\chi^2$/NDF:1201099.7/20

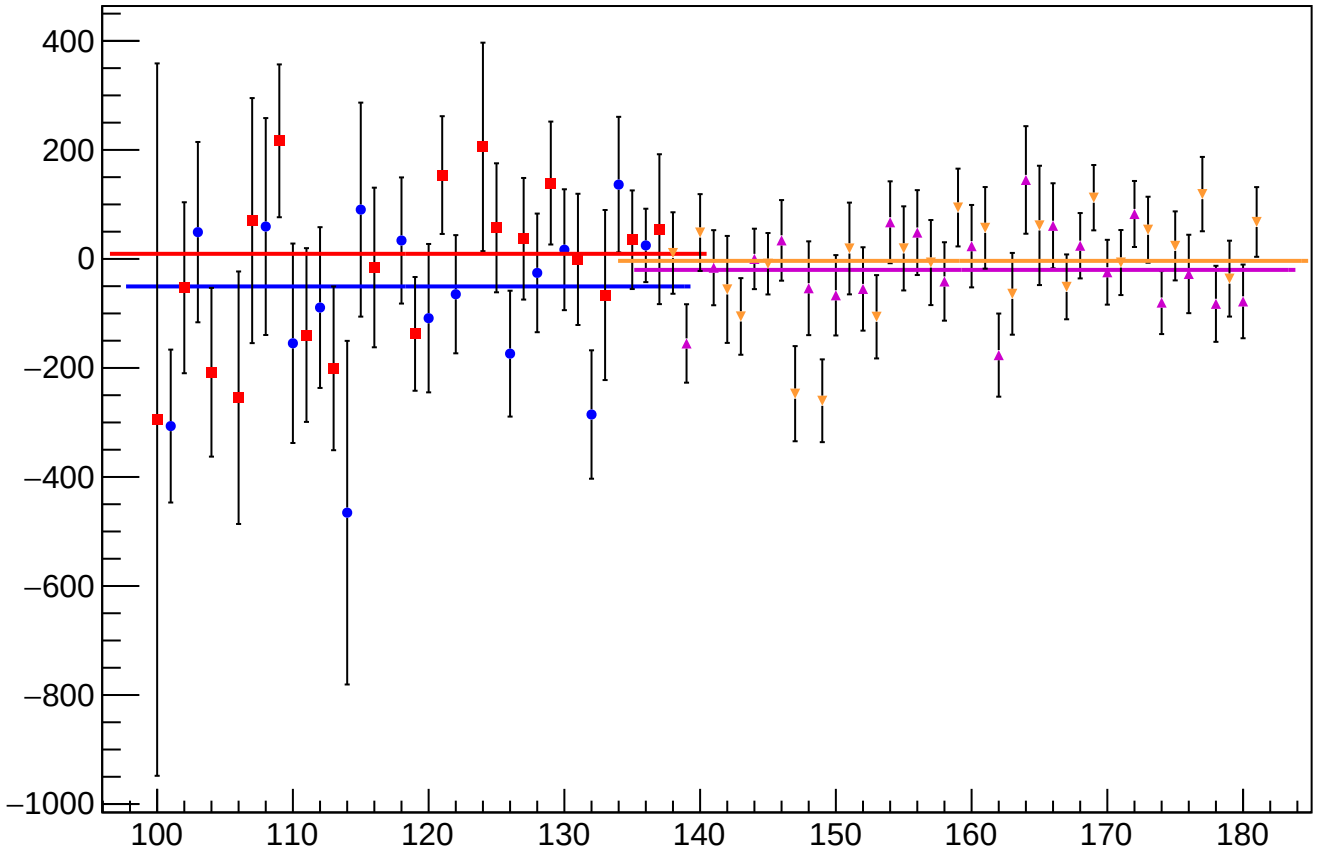
Left: 337.153+/-0.041 $\chi^2$/NDF: 2790613.9/43

Right: 703.381+/-0.138 $\chi^2$/NDF: 3163603.4/34

In: 367.216+/-0.056 $\chi^2$/NDF:5735299.0/36

Out: 366.666+/-0.055 $\chi^2$/NDF:6718308.9/41

All: 366.935+/-0.039 $\chi^2$/NDF: 12453657.0/78




Right In: -50.465+/-31.061 $\chi^2$/NDF: 16.4/15

Left Out: -3.552+/-14.717 $\chi^2$/NDF:37.9/22

Right Out: 9.380+/-31.235 $\chi^2$/NDF: 15.6/18

Left In: -20.104+/-15.245 $\chi^2$/NDF:21.6/20

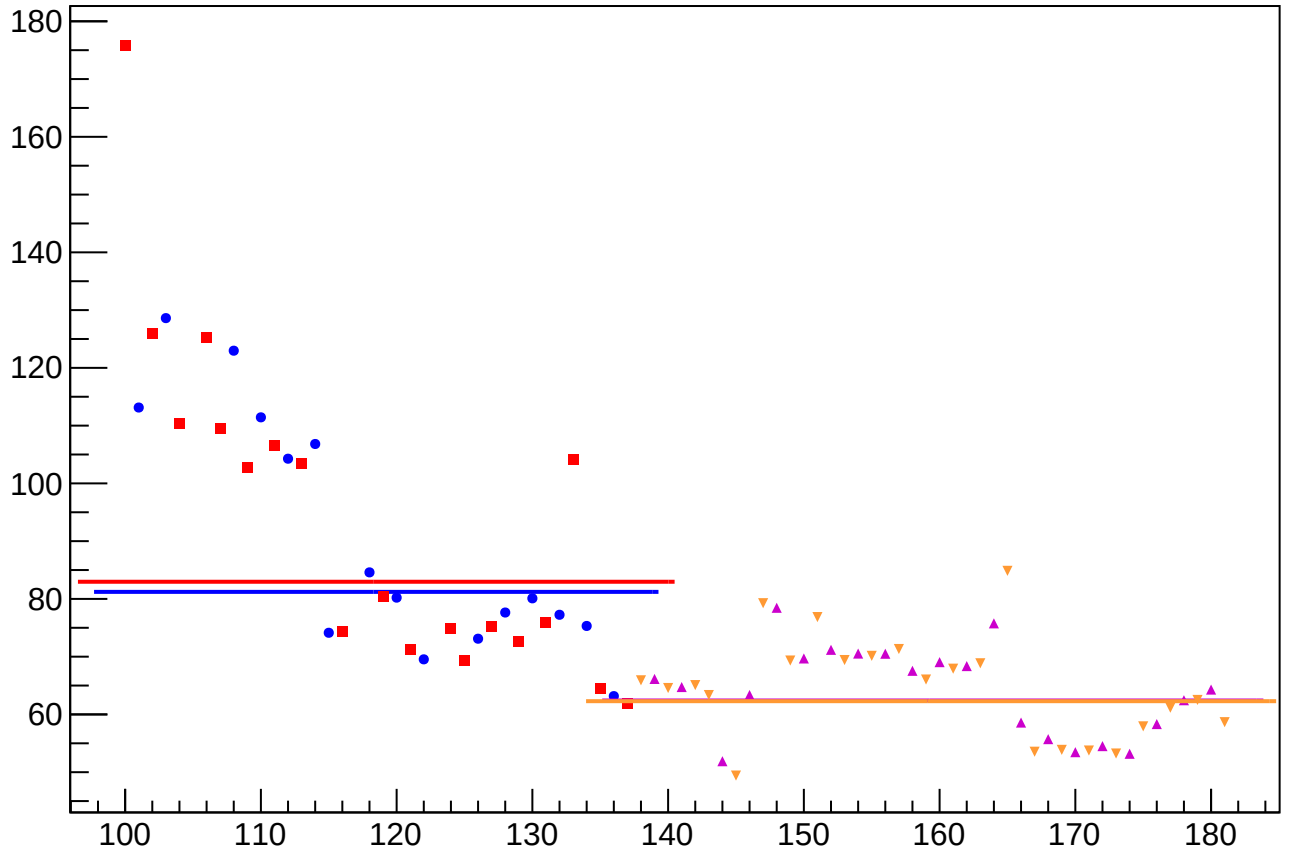
Left: -11.536+/-10.588 $\chi^2$/NDF: 60.1/43

Right: -20.709+/-22.025 $\chi^2$/NDF: 33.8/34

In: -25.998+/-13.686 $\chi^2$/NDF:38.8/36

Out: -1.203+/-13.313 $\chi^2$/NDF:53.6/41

All: -13.258+/-9.543 $\chi^2$/NDF: 94.0/78




Right In: 81.218+/-0.022 $\chi^2$/NDF: 662873.6/15

Left Out: 62.294+/-0.010 $\chi^2$/NDF:633000.3/22

Right Out: 82.971+/-0.022 $\chi^2$/NDF: 730384.9/18

Left In: 62.414+/-0.011 $\chi^2$/NDF:482826.5/20

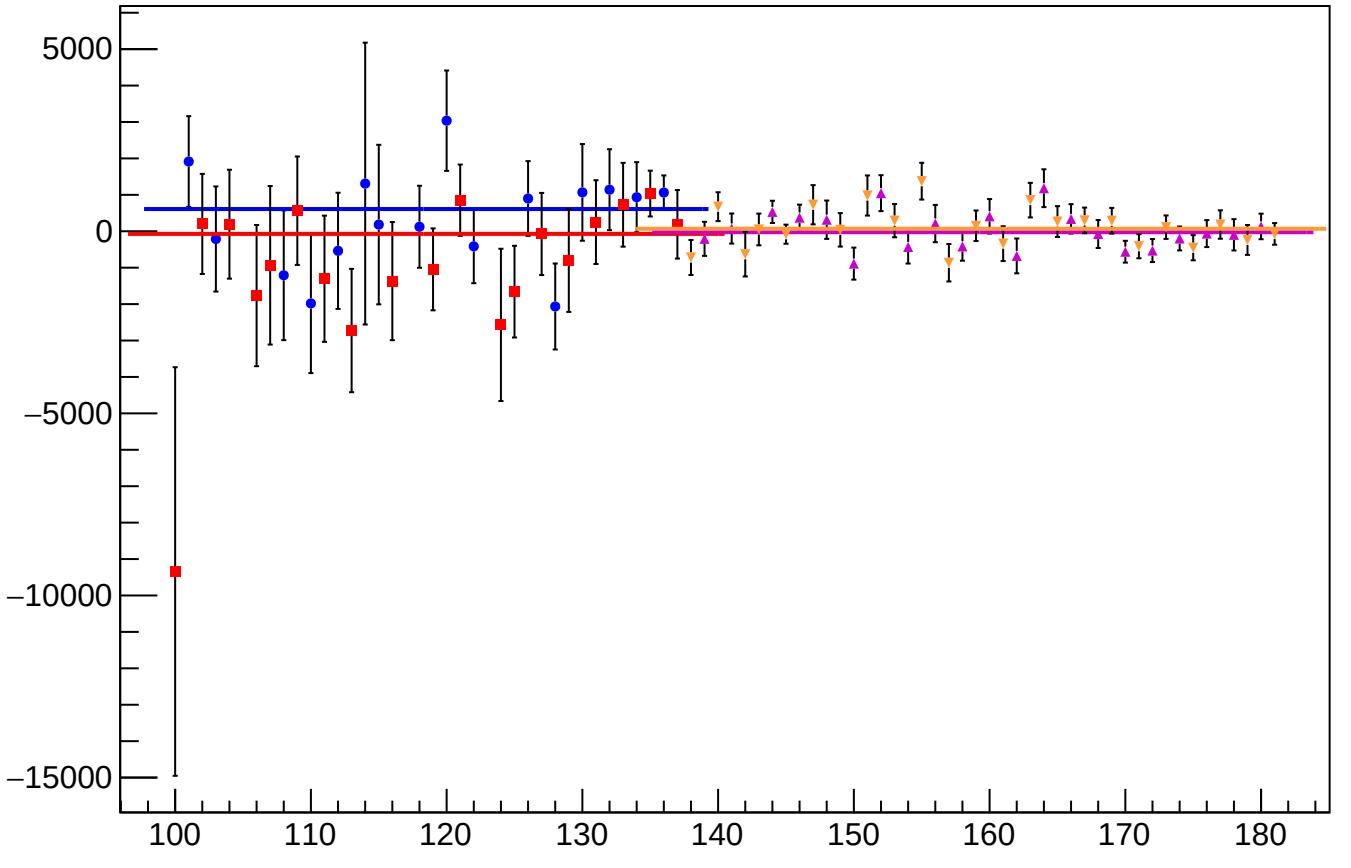
Left: 62.352+/-0.007 $\chi^2$/NDF: 1115891.4/43

Right: 82.090+/-0.016 $\chi^2$/NDF: 1396425.1/34

In: 66.064+/-0.010 $\chi^2$/NDF:1736389.0/36

Out: 66.050+/-0.009 $\chi^2$/NDF:2080638.2/41

All: 66.057+/-0.007 $\chi^2$/NDF: 3817028.3/78




Right In: 610.383+/-273.982 $\chi^2$/NDF: 15.8/15

Left Out: 68.555+/-83.206 $\chi^2$/NDF:31.0/22

Right Out: -72.311+/-286.830 $\chi^2$/NDF: 16.2/18

Left In: -25.679+/-86.459 $\chi^2$/NDF:31.0/20

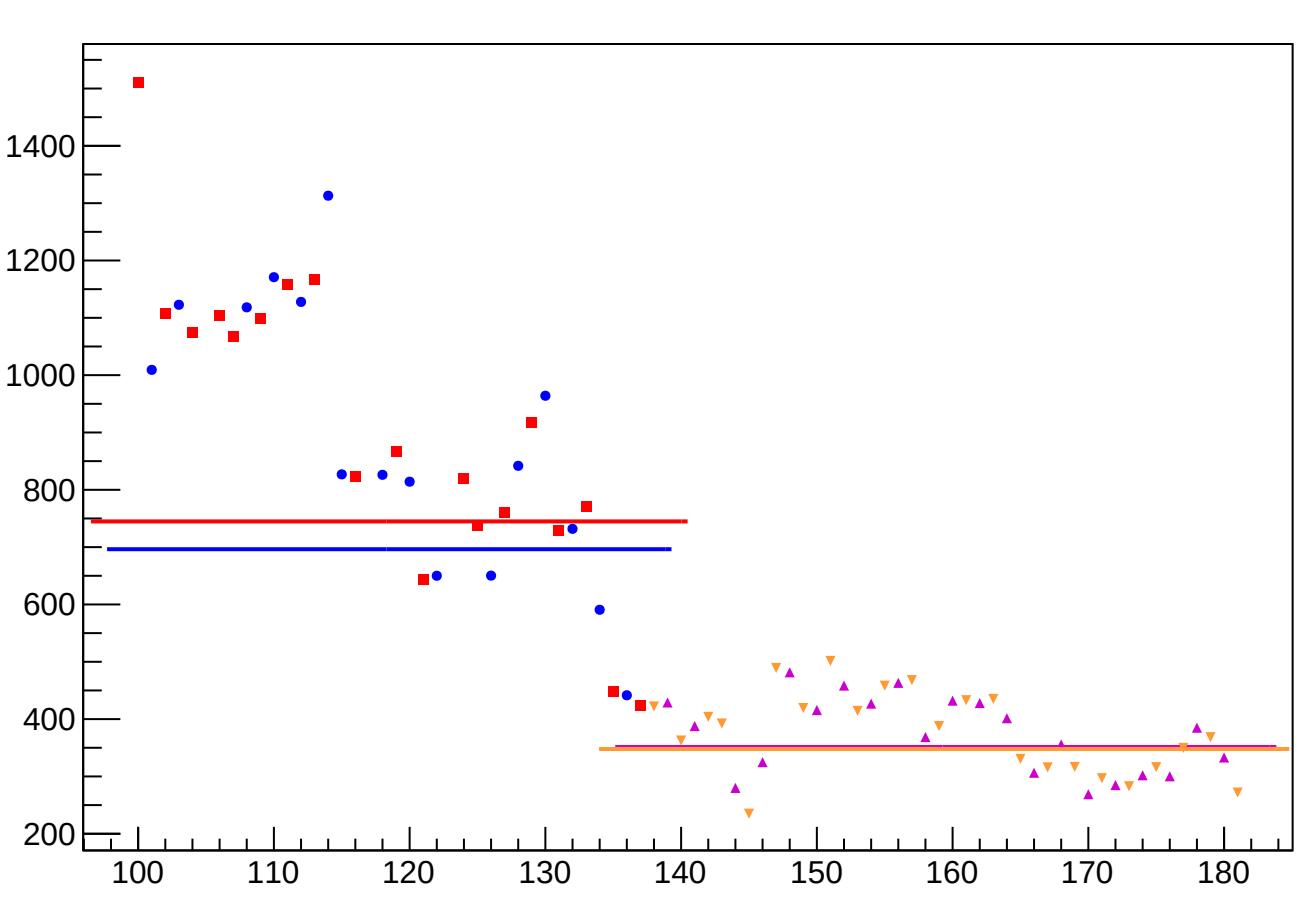
Left: 23.244+/-59.952 $\chi^2$/NDF: 62.6/43

Right: 284.669+/-198.121 $\chi^2$/NDF: 34.9/34

In: 31.924+/-82.451 $\chi^2$/NDF:51.7/36

Out: 57.622+/-79.912 $\chi^2$/NDF:47.4/41

All: 45.175+/-57.383 $\chi^2$/NDF: 99.1/78




Right In: 696.371+/-0.194 $\chi^2$/NDF: 1515478.0/15

Left Out: 347.829+/-0.059 $\chi^2$/NDF:1515580.7/22

Right Out: 744.875+/-0.203 $\chi^2$/NDF: 1498361.7/18

Left In: 351.365+/-0.061 $\chi^2$/NDF:1098772.0/20

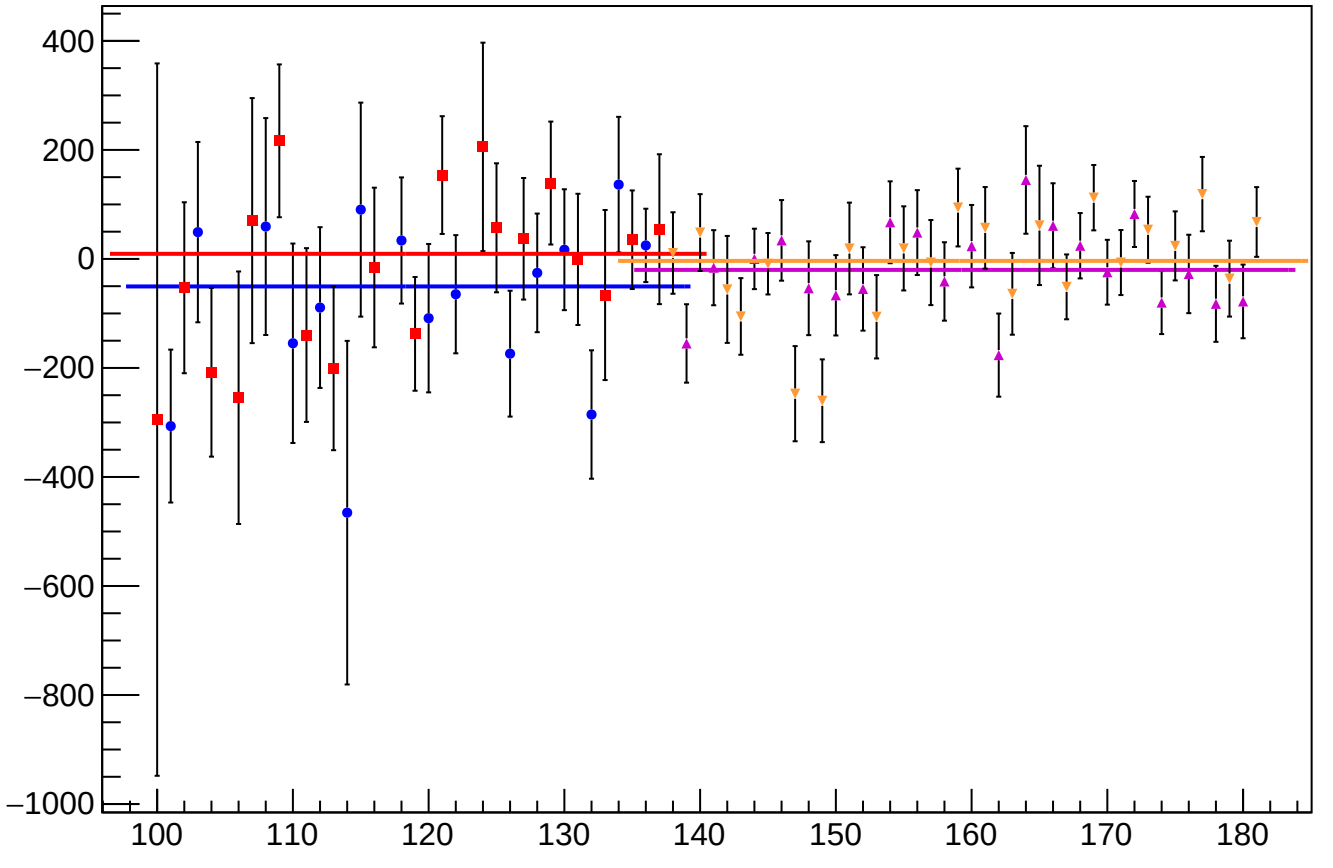
Left: 349.529+/-0.042 $\chi^2$/NDF: 2616089.6/43

Right: 719.512+/-0.140 $\chi^2$/NDF: 3043745.4/34

In: 382.610+/-0.058 $\chi^2$/NDF:5498363.9/36

Out: 378.647+/-0.057 $\chi^2$/NDF:6548802.8/41

All: 380.566+/-0.041 $\chi^2$/NDF: 12049548.4/78




Right In: -50.466+/-31.061 $\chi^2$/NDF: 16.4/15

Left Out: -3.551+/-14.717 $\chi^2$/NDF:37.9/22

Right Out: 9.381+/-31.235 $\chi^2$/NDF: 15.6/18

Left In: -20.104+/-15.246 $\chi^2$/NDF:21.6/20

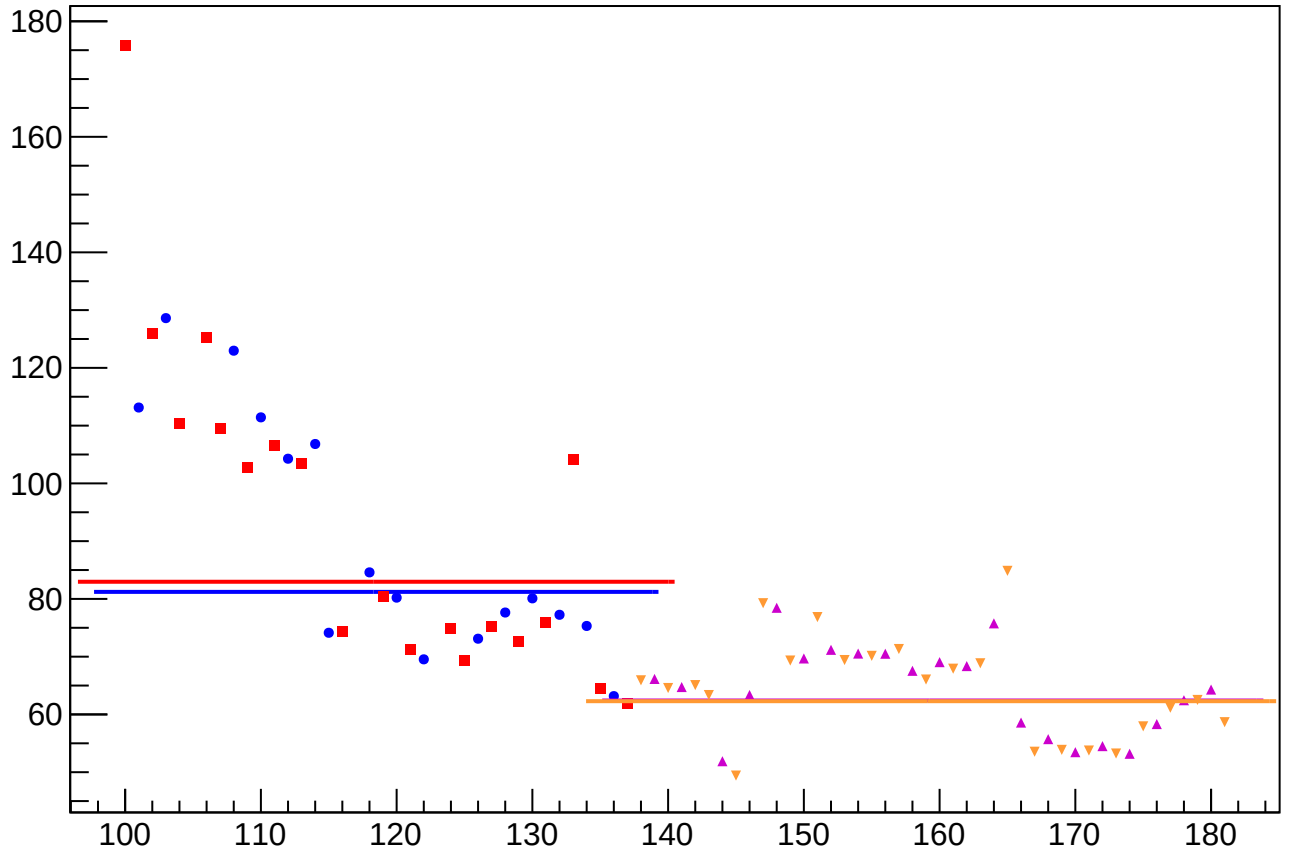
Left: -11.535+/-10.588 $\chi^2$/NDF: 60.1/43

Right: -20.709+/-22.025 $\chi^2$/NDF: 33.8/34

In: -25.998+/-13.686 $\chi^2$/NDF:38.8/36

Out: -1.202+/-13.313 $\chi^2$/NDF:53.6/41

All: -13.258+/-9.543 $\chi^2$/NDF: 94.0/78




Right In: 81.218+/-0.022 $\chi^2$/NDF: 662862.1/15

Left Out: 62.294+/-0.010 $\chi^2$/NDF:632998.7/22

Right Out: 82.971+/-0.022 $\chi^2$/NDF: 730375.6/18

Left In: 62.414+/-0.011 $\chi^2$/NDF:482820.8/20

Left: 62.352+/-0.007 $\chi^2$/NDF: 1115884.2/43

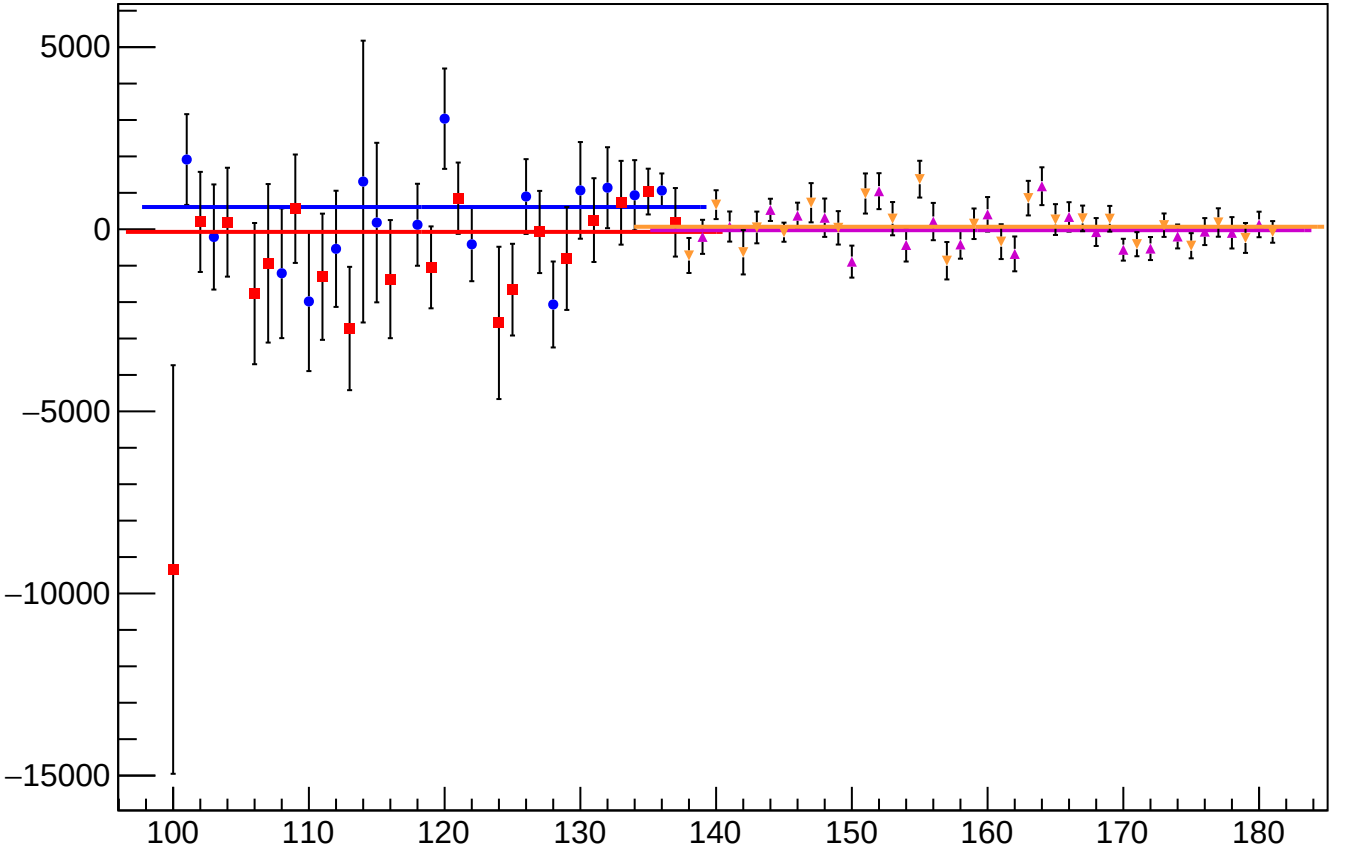
Right: 82.089+/-0.016 $\chi^2$/NDF: 1396405.1/34

In: 66.065+/-0.010 $\chi^2$/NDF:1736333.4/36

Out: 66.050+/-0.009 $\chi^2$/NDF:2080605.3/41

All: 66.057+/-0.007 $\chi^2$/NDF: 3816939.8/78

asym_sam_15_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 610.382+/-273.981 $\chi^2$/NDF: 15.8/15

Left Out: 68.556+/-83.206 $\chi^2$/NDF:31.0/22

Right Out: -72.313+/-286.830 $\chi^2$/NDF: 16.2/18

Left In: -25.679+/-86.459 $\chi^2$/NDF:31.0/20

Left: 23.244+/-59.953 $\chi^2$/NDF: 62.6/43

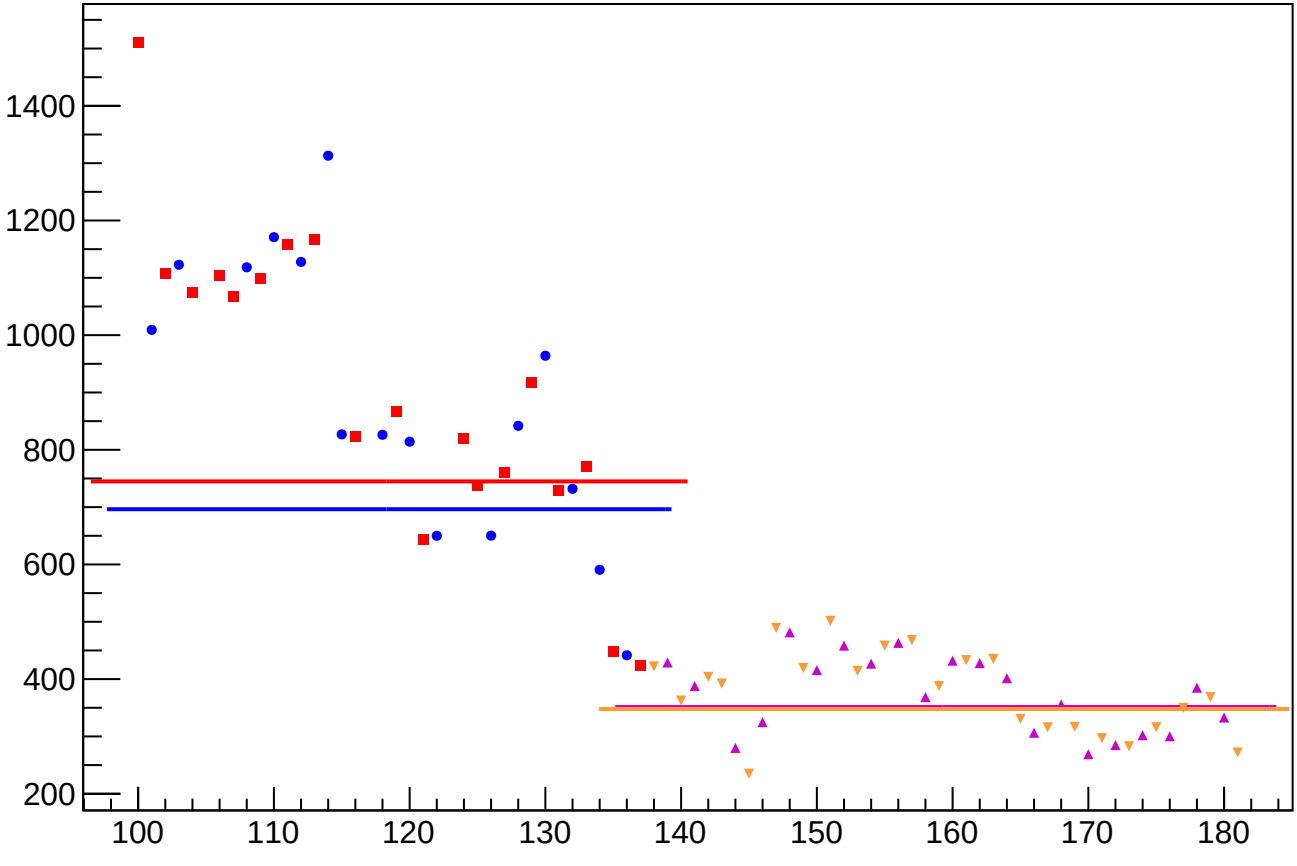
Right: 284.667+/-198.121 $\chi^2$/NDF: 34.9/34

In: 31.924+/-82.451 $\chi^2$/NDF:51.7/36

Out: 57.622+/-79.912 $\chi^2$/NDF:47.4/41

All: 45.175+/-57.383 $\chi^2$/NDF: 99.1/78

asym_sam_15_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 696.370+/-0.194 $\chi^2$/NDF: 1515461.8/15

Left Out: 347.829+/-0.059 $\chi^2$/NDF:1515601.6/22

Right Out: 744.874+/-0.203 $\chi^2$/NDF: 1498349.6/18

Left In: 351.365+/-0.061 $\chi^2$/NDF:1098777.1/20

Left: 349.529+/-0.042 $\chi^2$/NDF: 2616115.9/43

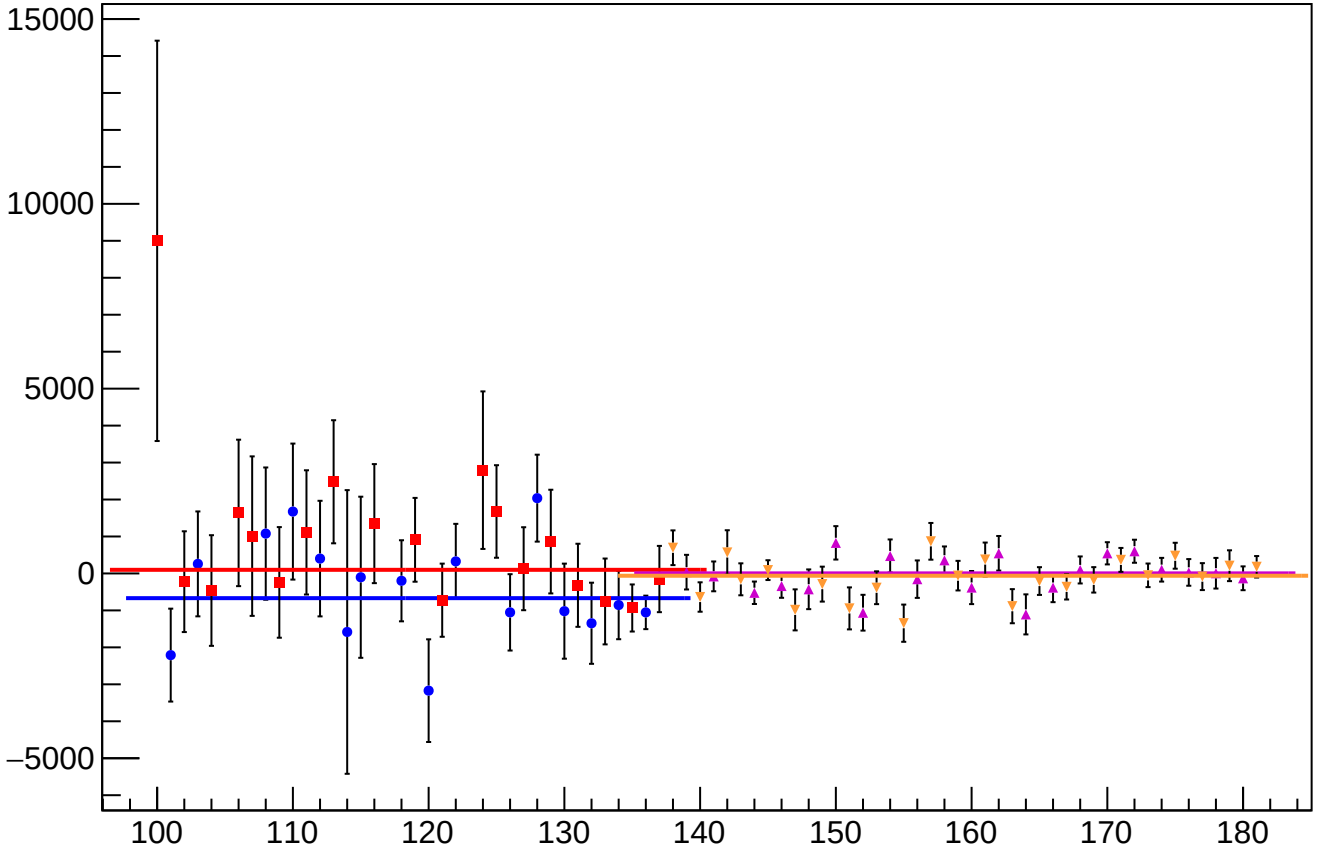
Right: 719.511+/-0.140 $\chi^2$/NDF: 3043716.8/34

In: 382.610+/-0.058 $\chi^2$/NDF:5498339.1/36

Out: 378.647+/-0.057 $\chi^2$/NDF:6548802.7/41

All: 380.567+/-0.041 $\chi^2$/NDF: 12049523.8/78

# asym_sam_15_26_dd_mean vs Slug, Sign Corrected




Right In: -668.503+/-268.452 $\chi^2$/NDF: 16.1/15

Left Out: -62.034+/-81.865 $\chi^2$/NDF:32.5/22

Right Out: 98.003+/-285.882 $\chi^2$/NDF: 14.8/18

Left In: 1.832+/-84.175 $\chi^2$/NDF:29.6/20

Left: -30.989+/-58.687 $\chi^2$/NDF: 62.4/43

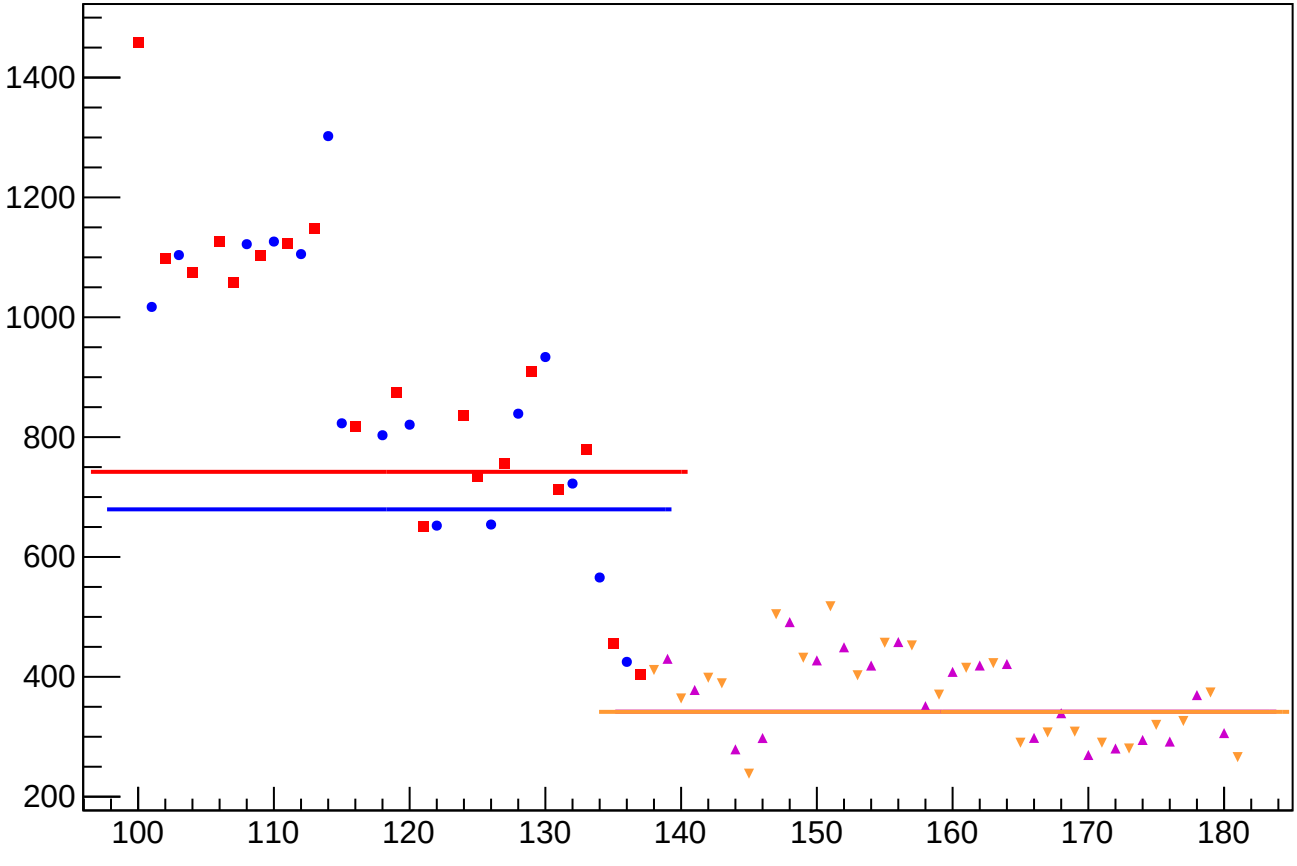
Right: -309.326+/-195.696 $\chi^2$/NDF: 34.8/34

In: -58.173+/-80.319 $\chi^2$/NDF:51.4/36

Out: -49.905+/-78.702 $\chi^2$/NDF:47.6/41

All: -53.955+/-56.214 $\chi^2$/NDF: 99.1/78

# asym_sam_15_26_dd_rms vs Slug, Sign Corrected




Right In: 679.469+/-0.190 $\chi^2$/NDF: 1600922.1/15

Left Out: 341.567+/-0.058 $\chi^2$/NDF:1551046.2/22

Right Out: 742.081+/-0.202 $\chi^2$/NDF: 1504391.2/18

Left In: 341.917+/-0.060 $\chi^2$/NDF:1175411.9/20

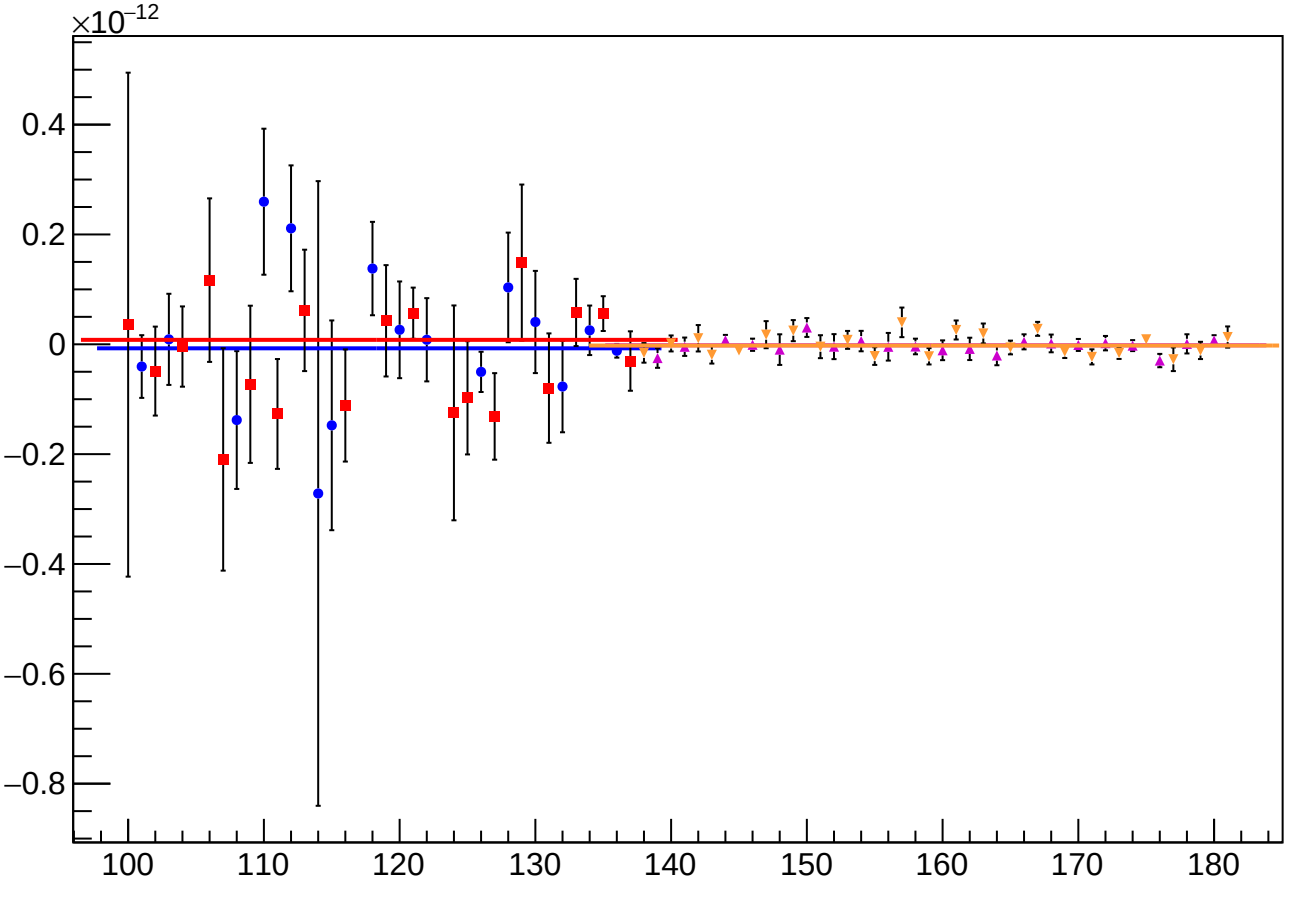
Left: 341.737+/-0.041 $\chi^2$/NDF: 2726475.9/43

Right: 708.808+/-0.138 $\chi^2$/NDF: 3156293.3/34

In: 372.134+/-0.057 $\chi^2$/NDF:5655373.8/36

Out: 371.921+/-0.056 $\chi^2$/NDF:6683411.6/41

All: 372.025+/-0.040 $\chi^2$/NDF: 12338792.6/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:30.8/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.3/20

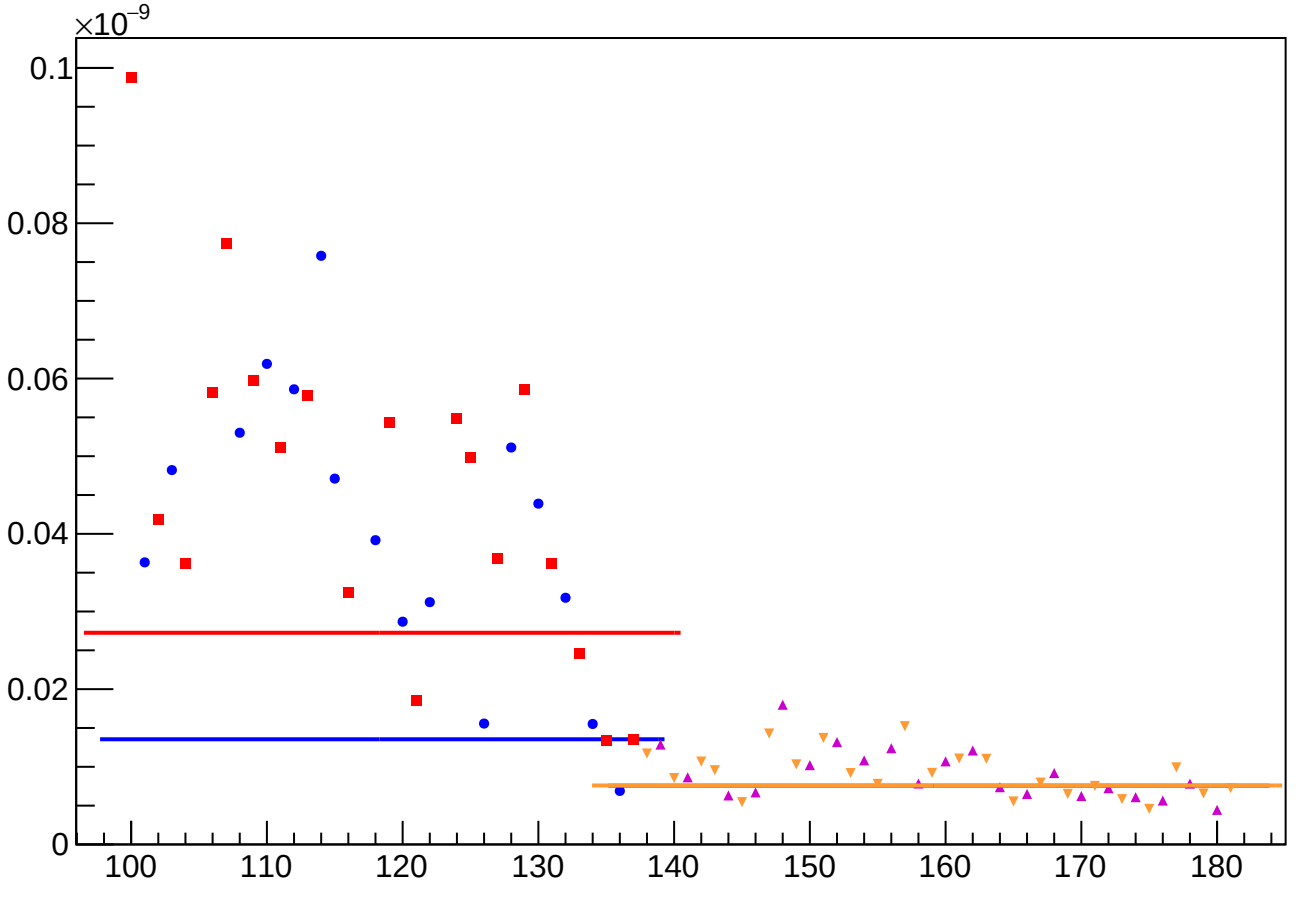
Left: -0.000+/-0.000 $\chi^2$/NDF: 45.1/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:31.8/36

Out: -0.000+/-0.000 $\chi^2$/NDF:48.1/41

All: -0.000+/-0.000 $\chi^2$/NDF: 79.9/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3045220.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1457412.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1735739.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1336585.5/20

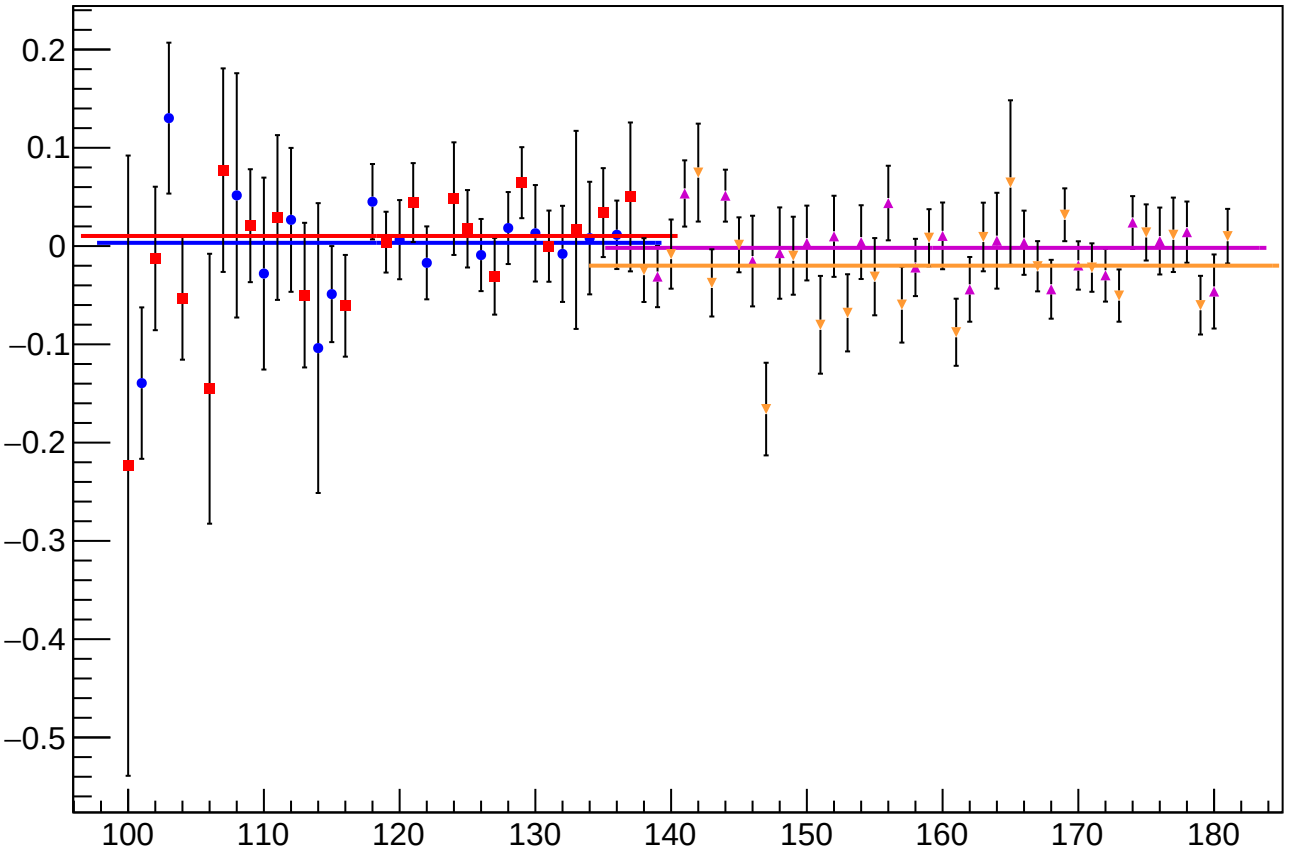
Left: 0.000+/-0.000 $\chi^2$/NDF: 2794070.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5700569.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:4982206.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5697928.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10681593.2/78




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.020+/-0.007 $\chi^2$/NDF:35.0/22

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: -0.002+/-0.007 $\chi^2$/NDF:17.8/20

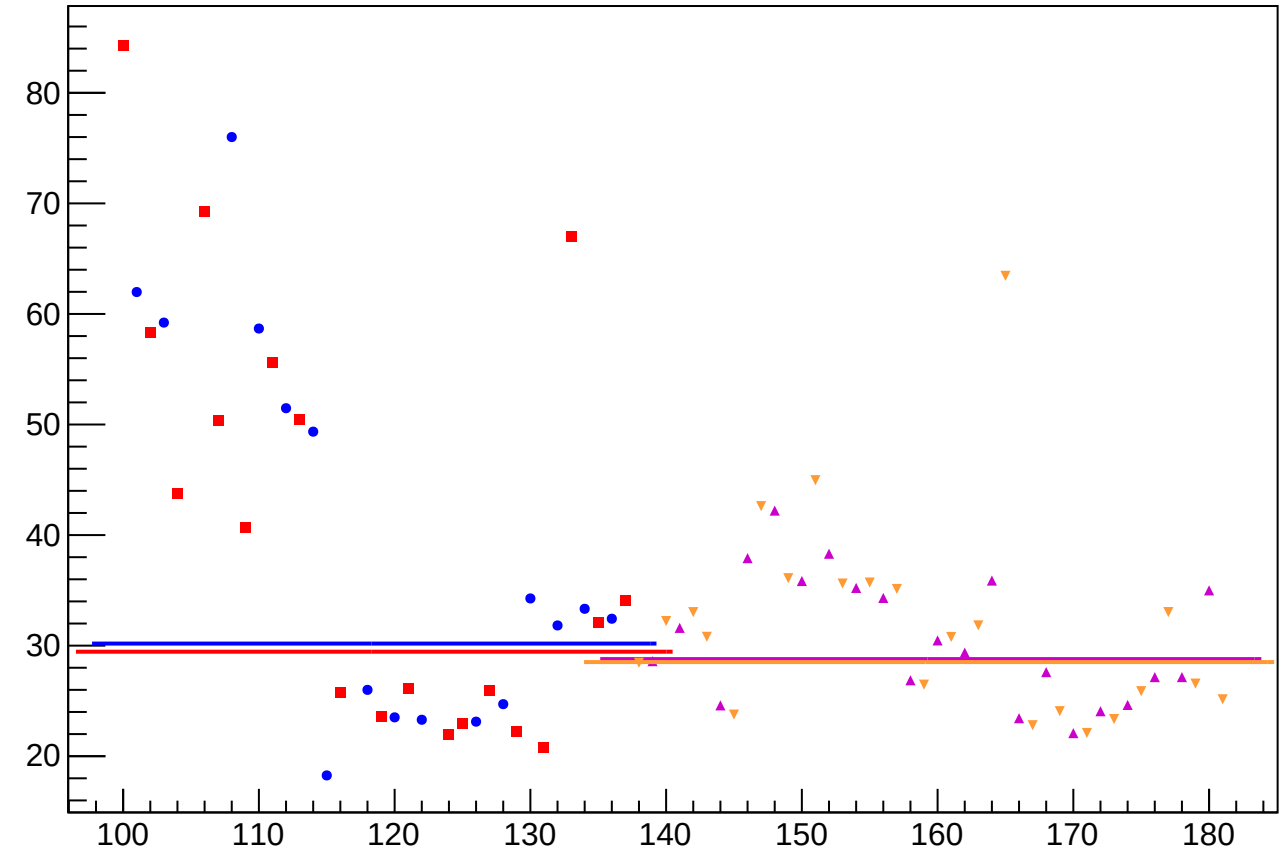
Left: -0.011+/-0.005 $\chi^2$/NDF: 56.1/43

Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: -0.001+/-0.006 $\chi^2$/NDF:28.0/36

Out: -0.012+/-0.006 $\chi^2$/NDF:51.2/41

All: -0.007+/-0.004 $\chi^2$/NDF: 81.1/78




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687373.5/15

Left Out: 28.514+/-0.005 $\chi^2$/NDF:1600774.8/22

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848636.5/18

Left In: 28.784+/-0.005 $\chi^2$/NDF:1022121.2/20

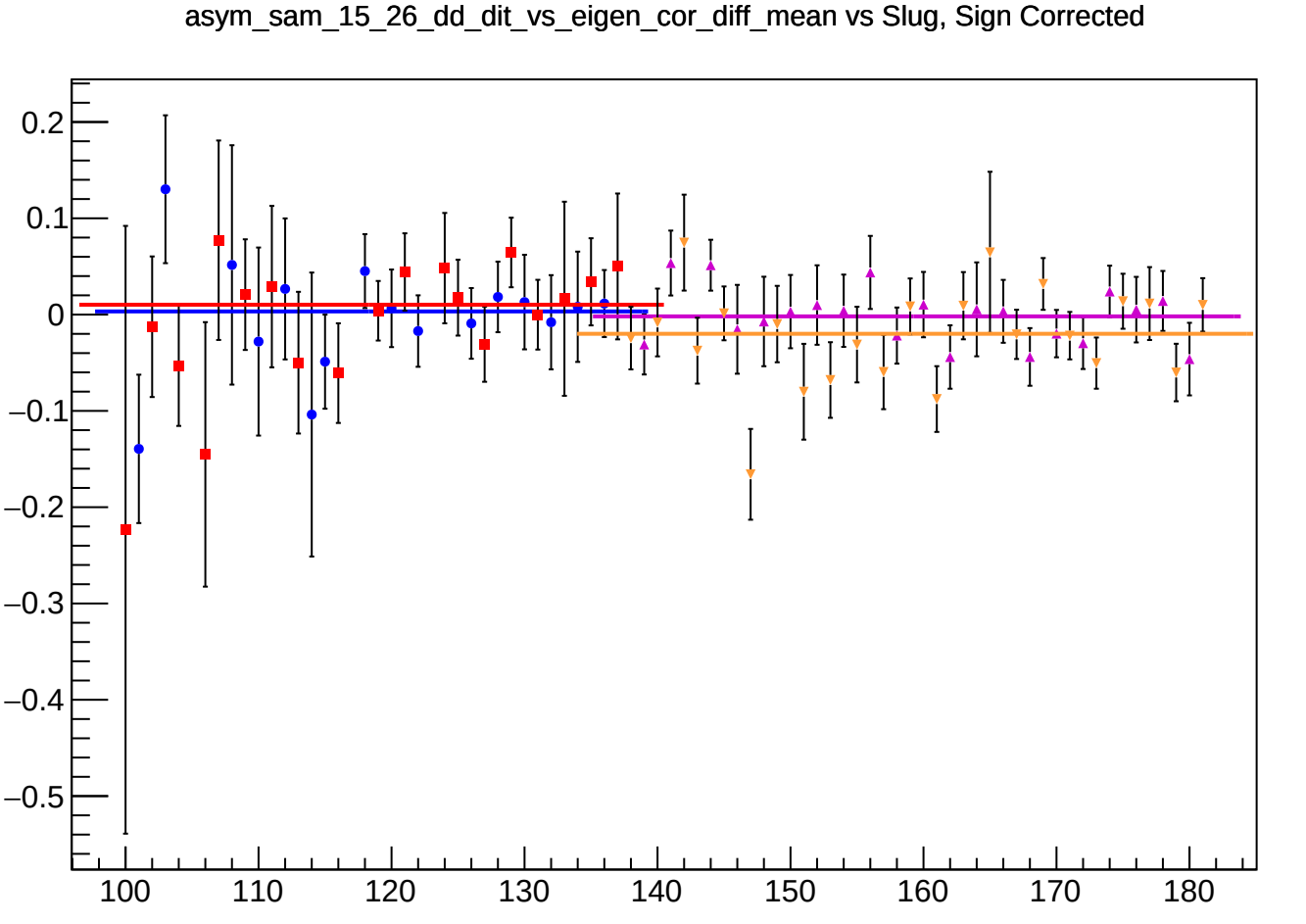
Left: 28.643+/-0.004 $\chi^2$/NDF: 2624372.4/43

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539732.7/34

In: 29.141+/-0.004 $\chi^2$/NDF:2728946.6/36

Out: 28.752+/-0.004 $\chi^2$/NDF:3458812.1/41

All: 28.938+/-0.003 $\chi^2$/NDF: 6191865.4/78




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.020+/-0.007 $\chi^2$/NDF:35.0/22

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: -0.002+/-0.007 $\chi^2$/NDF:17.8/20

Left: -0.011+/-0.005 $\chi^2$/NDF: 56.1/43

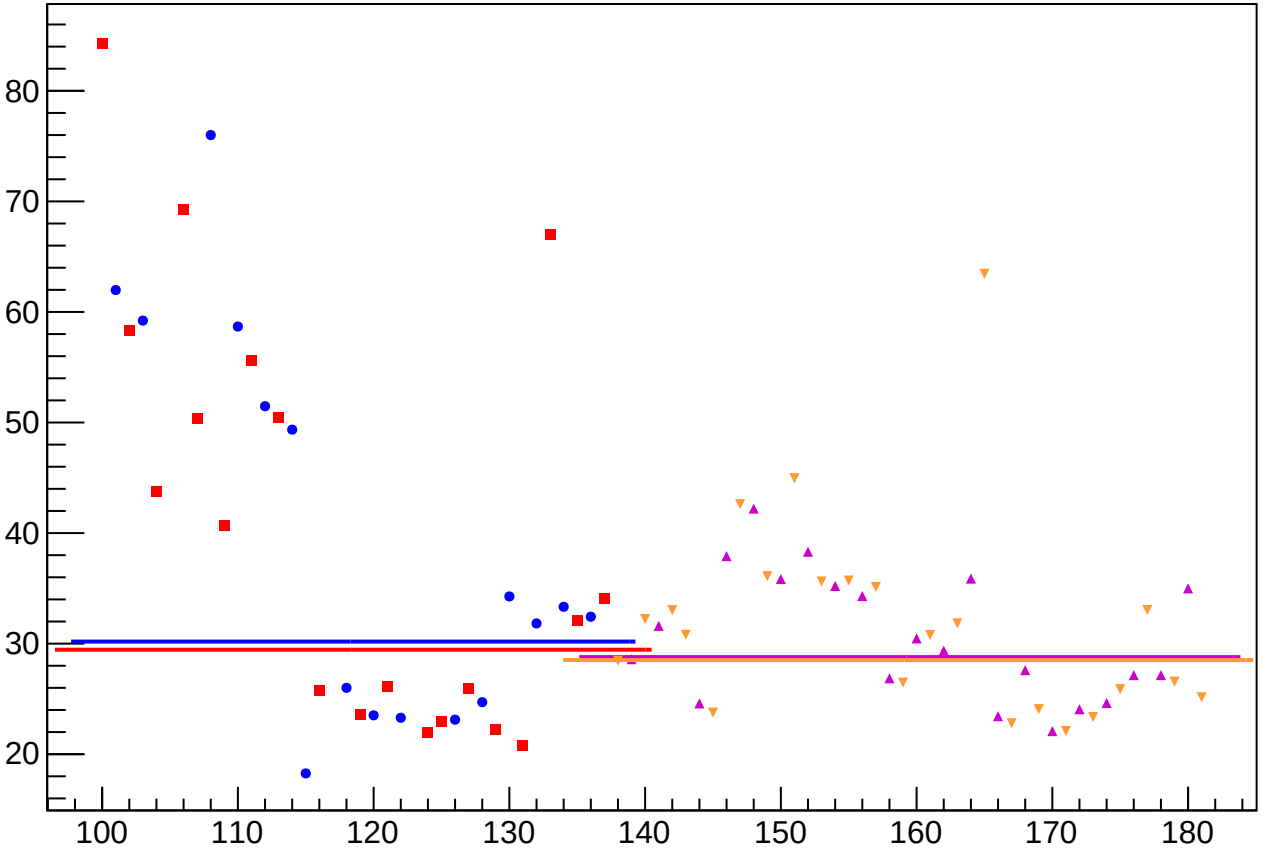
Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: -0.001+/-0.006 $\chi^2$/NDF:28.0/36

Out: -0.012+/-0.006 $\chi^2$/NDF:51.2/41

All: -0.007+/-0.004 $\chi^2$/NDF: 81.1/78

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687373.5/15

Left Out: 28.514+/-0.005 $\chi^2$/NDF:1600774.8/22

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848636.5/18

Left In: 28.784+/-0.005 $\chi^2$/NDF:1022121.2/20

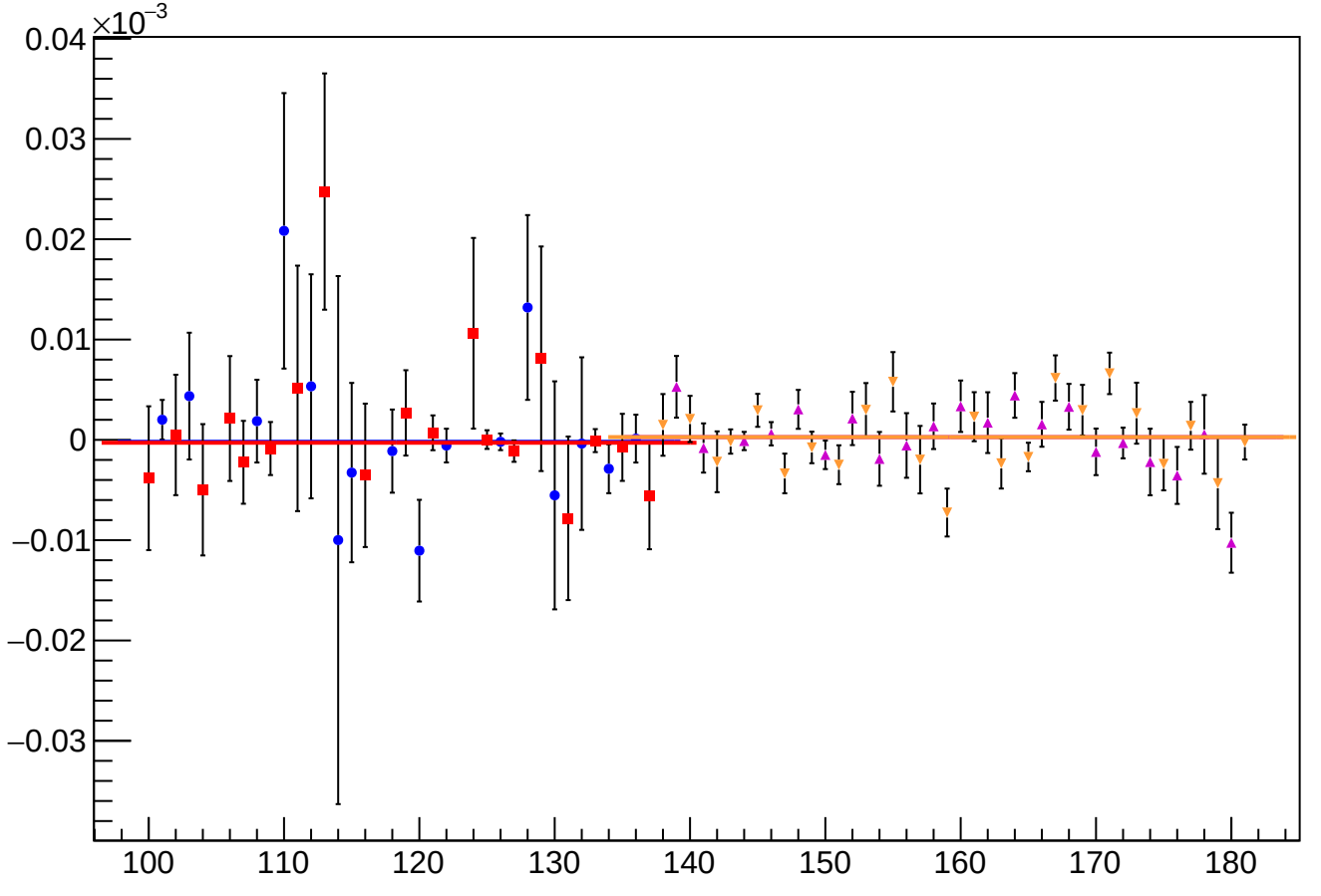
Left: 28.643+/-0.004 $\chi^2$/NDF: 2624372.4/43

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539732.7/34

In: 29.141+/-0.004 $\chi^2$/NDF:2728946.6/36

Out: 28.752+/-0.004 $\chi^2$/NDF:3458812.1/41

All: 28.938+/-0.003 $\chi^2$/NDF: 6191865.4/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:49.0/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:30.7/20

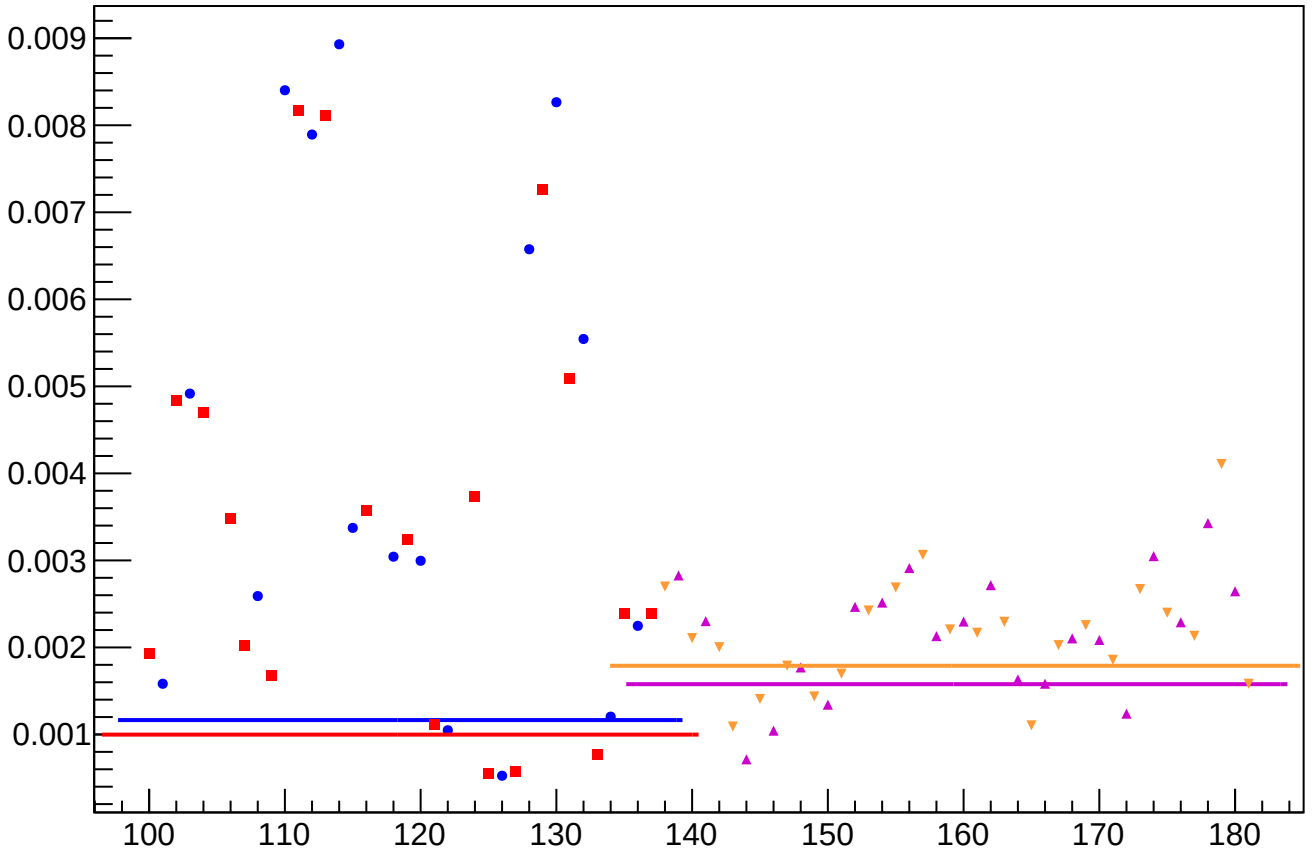
Left: 0.000+/-0.000 $\chi^2$/NDF: 79.7/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 24.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:44.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:61.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 105.3/78




Right In: 0.001+/-0.000 $\chi^2$/NDF: 6881775.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3291130.0/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 6937197.5/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:5691782.0/20

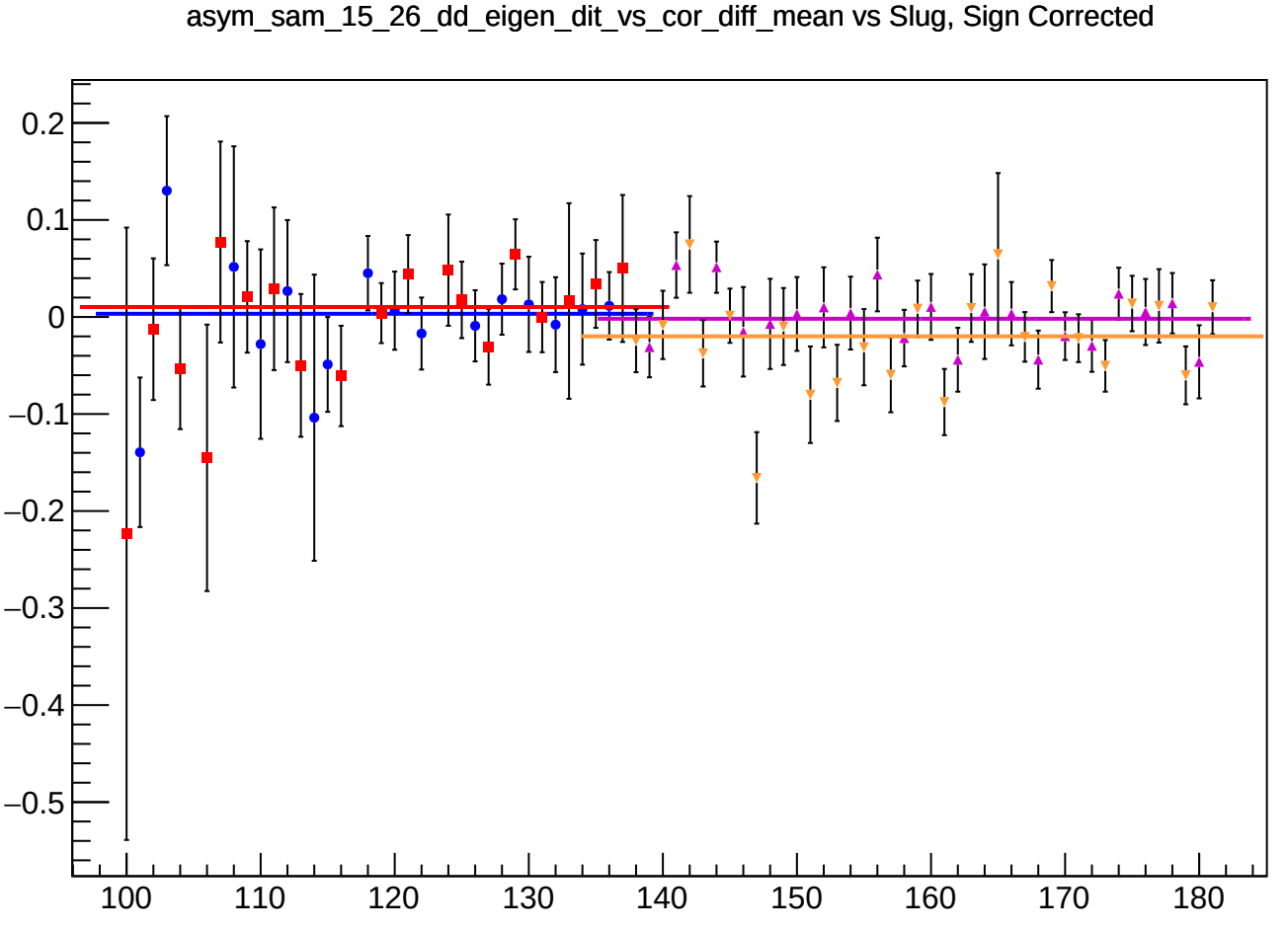
Left: 0.002+/-0.000 $\chi^2$/NDF: 9218065.5/43

Right: 0.001+/-0.000 $\chi^2$/NDF: 13904727.1/34

In: 0.001+/-0.000 $\chi^2$/NDF:13178759.5/36

Out: 0.001+/-0.000 $\chi^2$/NDF:12900206.6/41

All: 0.001+/-0.000 $\chi^2$/NDF: 26081372.4/78




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.020+/-0.007 $\chi^2$/NDF:35.0/22

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: -0.002+/-0.007 $\chi^2$/NDF:17.8/20

Left: -0.011+/-0.005 $\chi^2$/NDF: 56.1/43

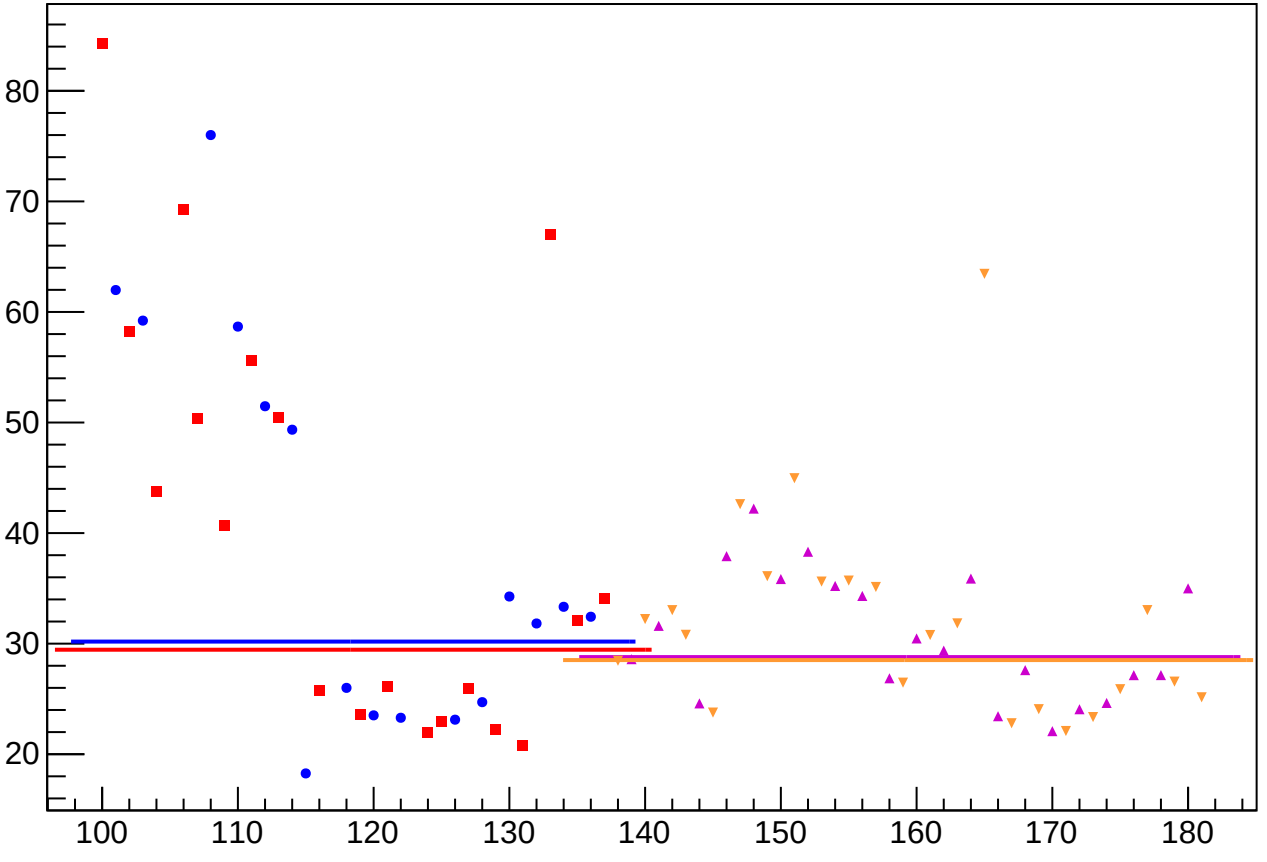
Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: -0.001+/-0.006 $\chi^2$/NDF:28.0/36

Out: -0.012+/-0.006 $\chi^2$/NDF:51.2/41

All: -0.007+/-0.004 $\chi^2$/NDF: 81.1/78

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687188.2/15

Left Out: 28.514+/-0.005 $\chi^2$/NDF:1600748.1/22

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848632.6/18

Left In: 28.784+/-0.005 $\chi^2$/NDF:1022105.5/20

Left: 28.644+/-0.004 $\chi^2$/NDF: 2624332.0/43

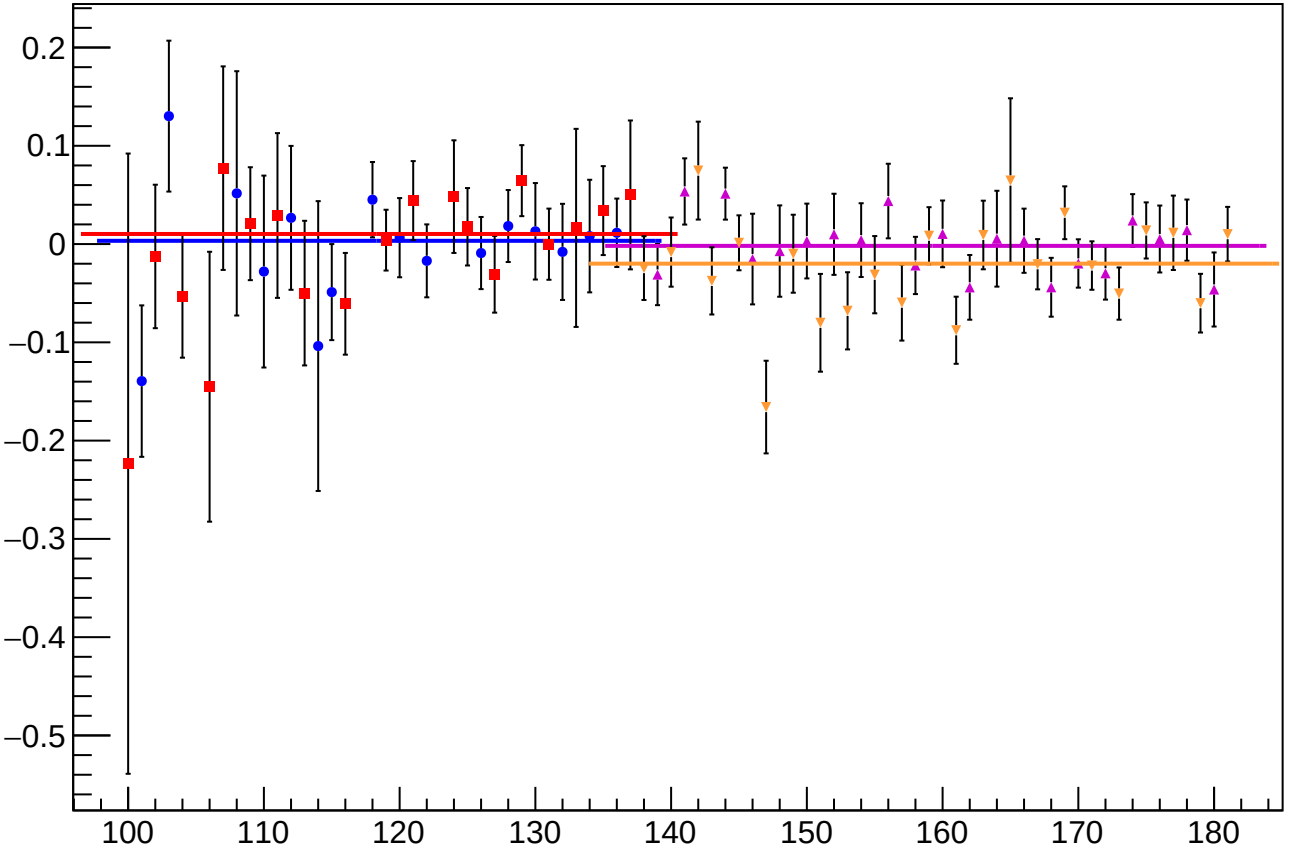
Right: 29.805+/-0.006 $\chi^2$/NDF: 3539550.0/34

In: 29.141+/-0.004 $\chi^2$/NDF:2728738.6/36

Out: 28.752+/-0.004 $\chi^2$/NDF:3458767.9/41

All: 28.939+/-0.003 $\chi^2$/NDF: 6191619.6/78

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.020+/-0.007 $\chi^2$/NDF:35.0/22

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: -0.002+/-0.007 $\chi^2$/NDF:17.8/20

Left: -0.011+/-0.005 $\chi^2$/NDF: 56.1/43

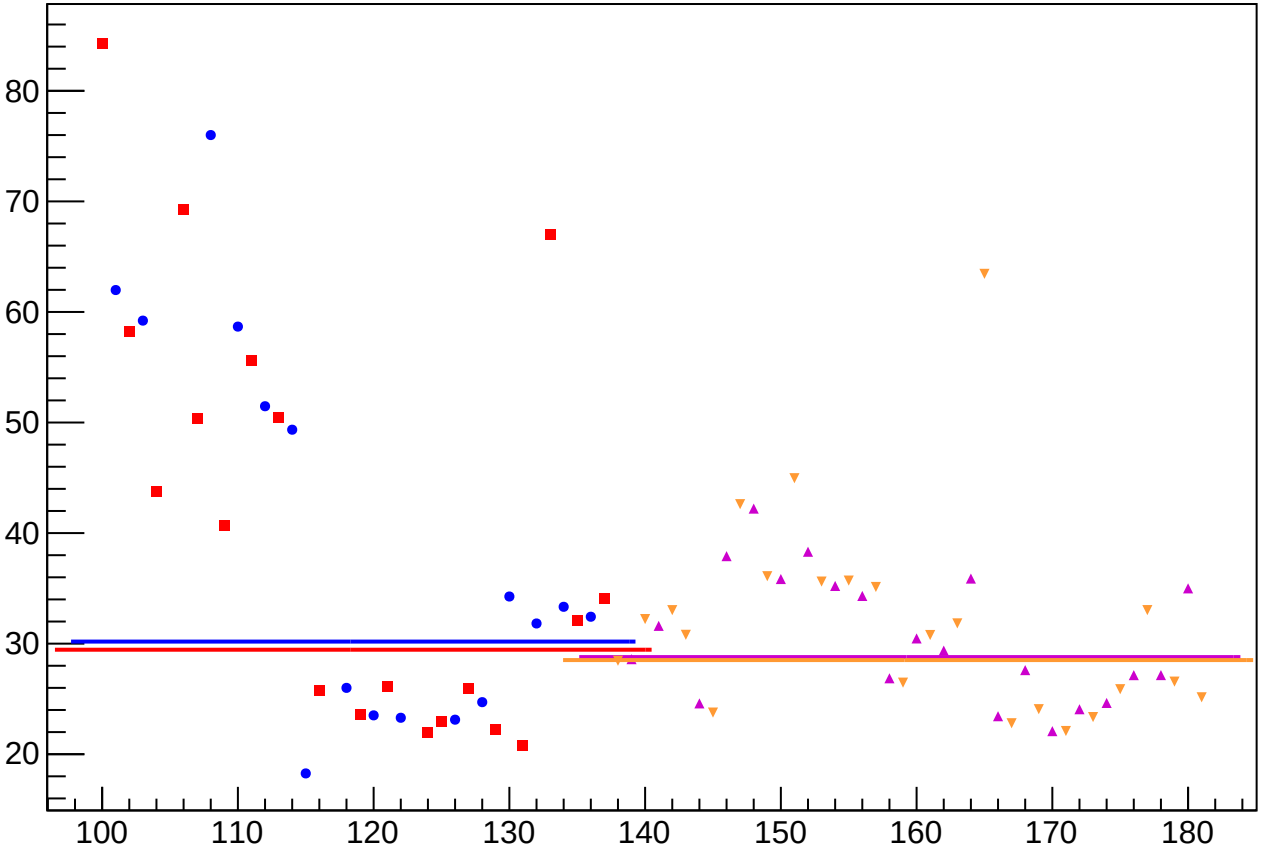
Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: -0.001+/-0.006 $\chi^2$/NDF:28.0/36

Out: -0.012+/-0.006 $\chi^2$/NDF:51.2/41

All: -0.007+/-0.004 $\chi^2$/NDF: 81.1/78

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687188.2/15

Left Out: 28.514+/-0.005 $\chi^2$/NDF:1600748.1/22

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848632.6/18

Left In: 28.784+/-0.005 $\chi^2$/NDF:1022105.5/20

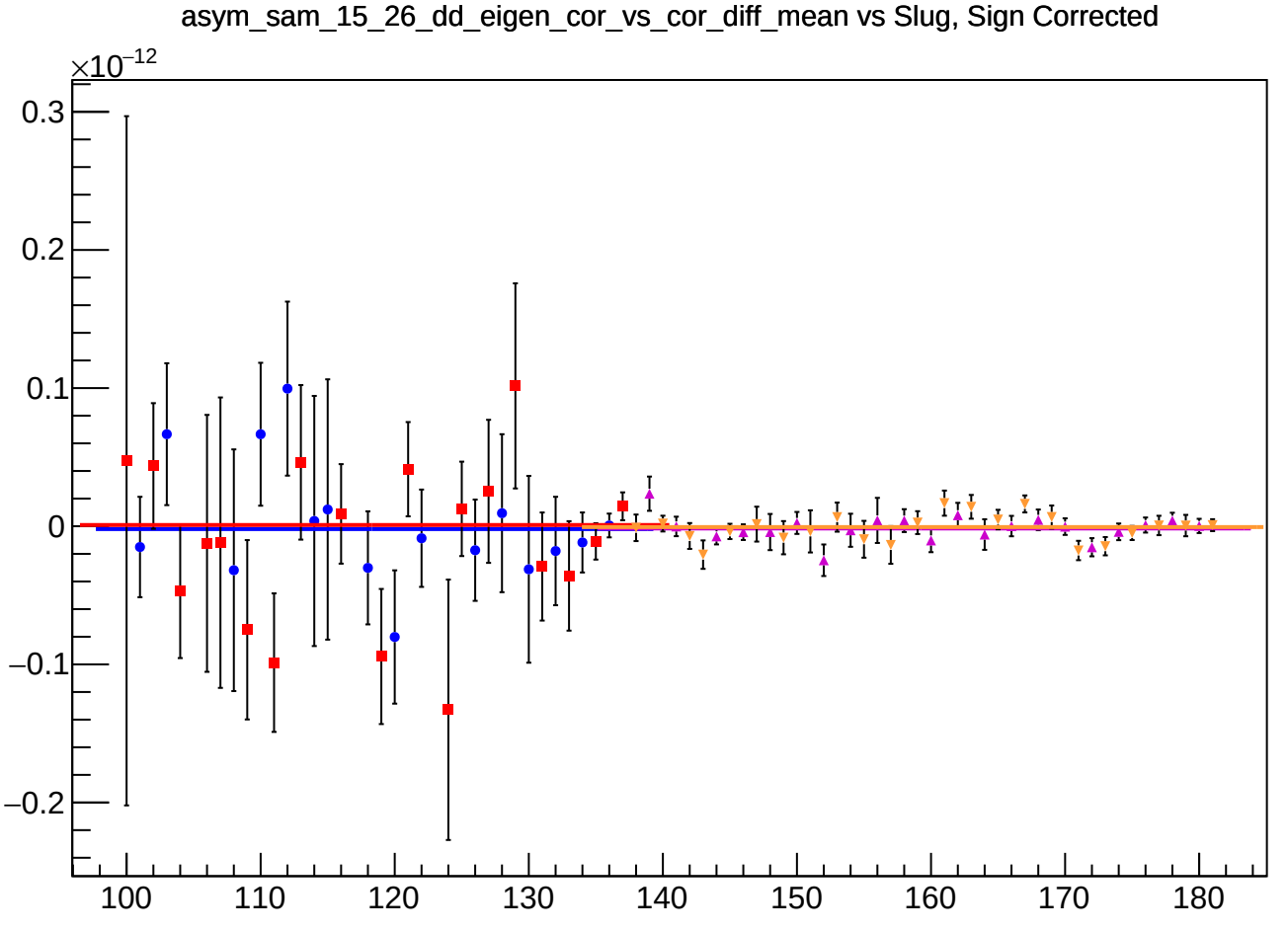
Left: 28.644+/-0.004 $\chi^2$/NDF: 2624332.0/43

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539550.0/34

In: 29.141+/-0.004 $\chi^2$/NDF:2728738.6/36

Out: 28.752+/-0.004 $\chi^2$/NDF:3458767.9/41

All: 28.939+/-0.003 $\chi^2$/NDF: 6191619.6/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:33.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.2/20

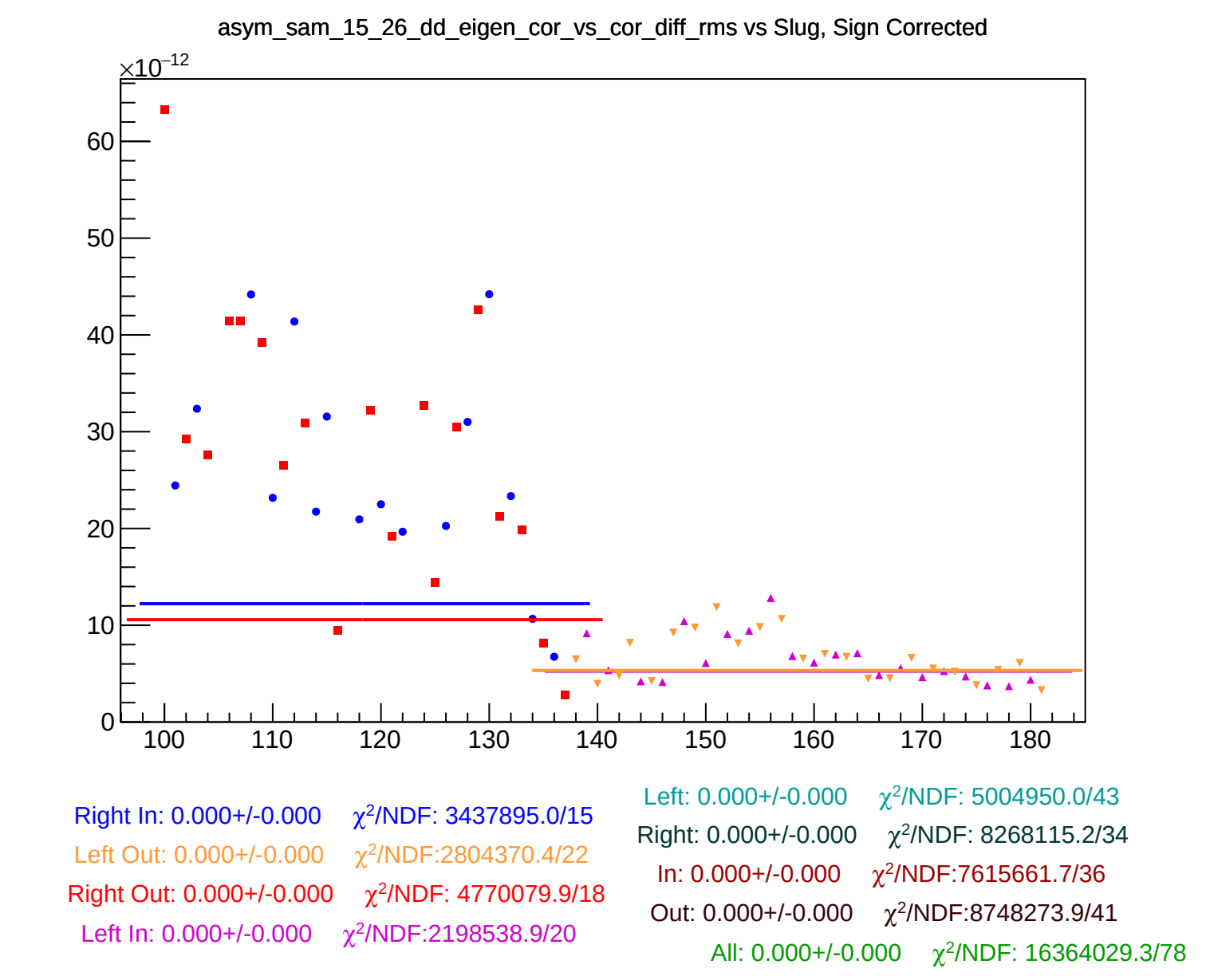
Left: -0.000+/-0.000 $\chi^2$/NDF: 53.0/43

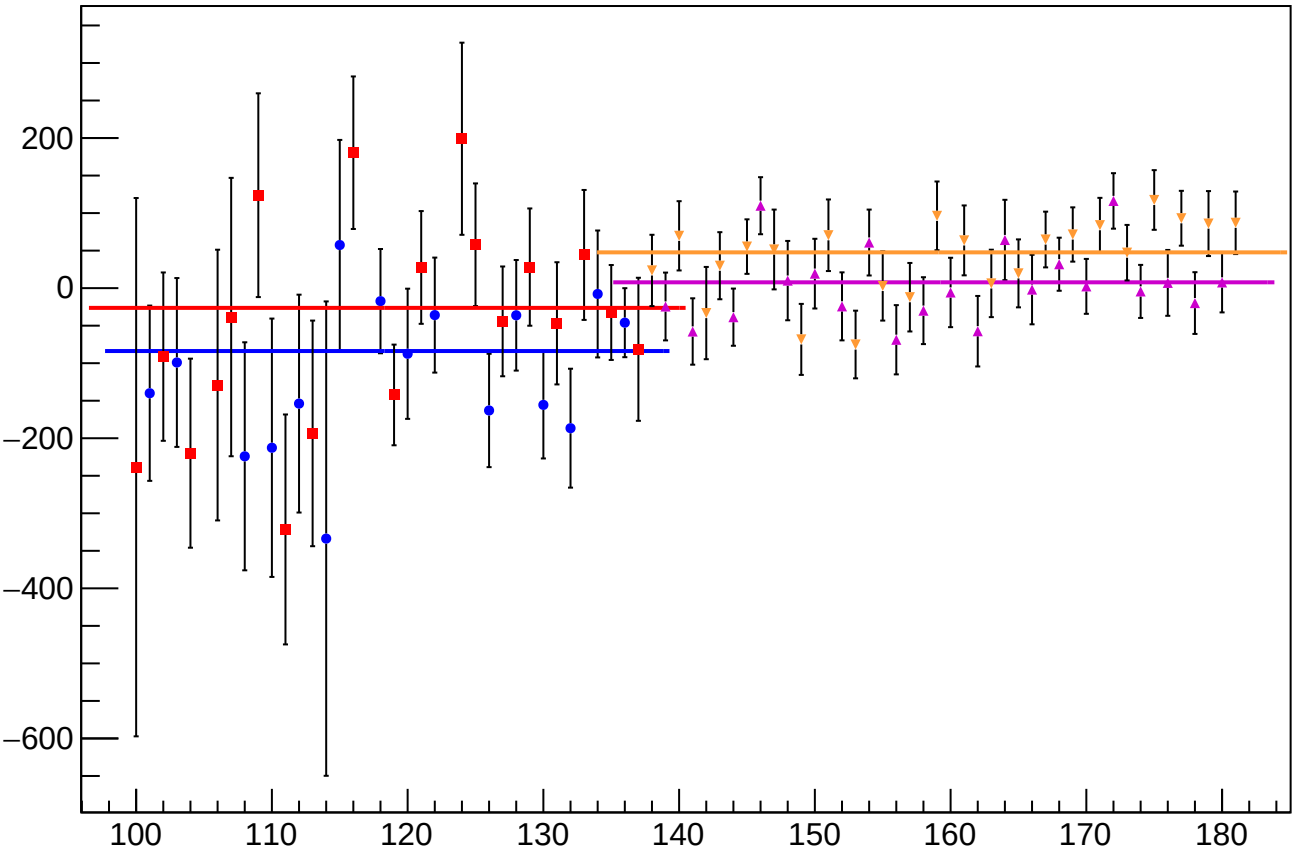
Right: -0.000+/-0.000 $\chi^2$/NDF: 31.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:29.6/36

Out: -0.000+/-0.000 $\chi^2$/NDF:55.0/41

All: -0.000+/-0.000 $\chi^2$/NDF: 84.9/78


asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 3437895.0/15
Left Out: 0.000+/-0.000 χ²/NDF:2804370.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 4770079.9/18
Left In: 0.000+/-0.000 χ²/NDF:2198538.9/20
Left: 0.000+/-0.000 χ²/NDF: 5004950.0/43
Right: 0.000+/-0.000 χ²/NDF: 8268115.2/34
In: 0.000+/-0.000 χ²/NDF:7615661.7/36
Out: 0.000+/-0.000 χ²/NDF:8748273.9/41
All: 0.000+/-0.000 χ²/NDF: 16364029.3/78




Right In: -83.808+/-21.434 $\chi^2$/NDF: 10.5/15

Left Out: 47.674+/-8.942 $\chi^2$/NDF:29.2/22

Right Out: -26.301+/-22.067 $\chi^2$/NDF: 23.0/18

Left In: 7.755+/-9.231 $\chi^2$/NDF:29.7/20

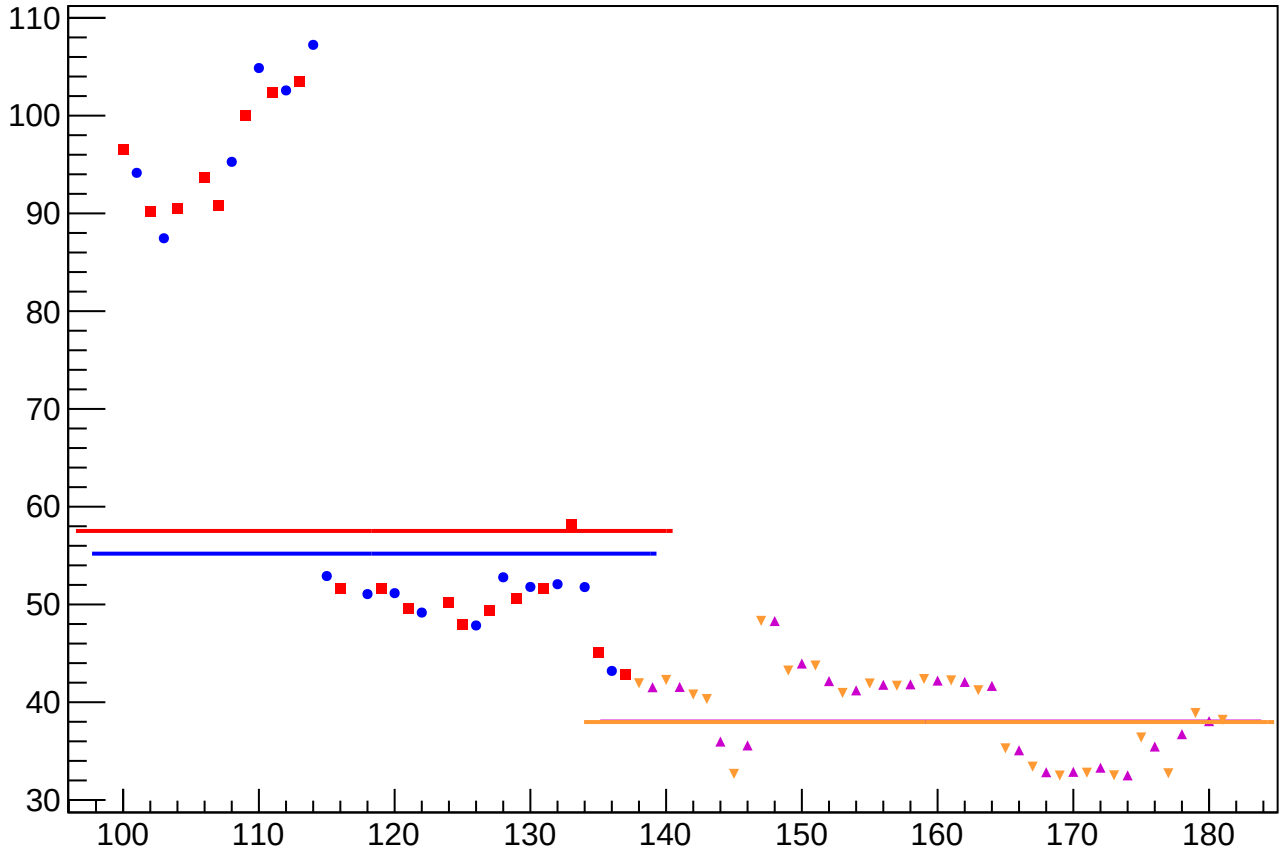
Left: 28.348+/-6.423 $\chi^2$/NDF: 68.5/43

Right: -55.890+/-15.375 $\chi^2$/NDF: 37.0/34

In: -6.569+/-8.478 $\chi^2$/NDF:55.7/36

Out: 37.240+/-8.288 $\chi^2$/NDF:61.8/41

All: 15.832+/-5.926 $\chi^2$/NDF: 131.1/78




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.1/15

Left Out: 37.974+/-0.006 $\chi^2$/NDF:508211.7/22

Right Out: 57.519+/-0.016 $\chi^2$/NDF: 1281793.1/18

Left In: 38.026+/-0.007 $\chi^2$/NDF:423395.6/20

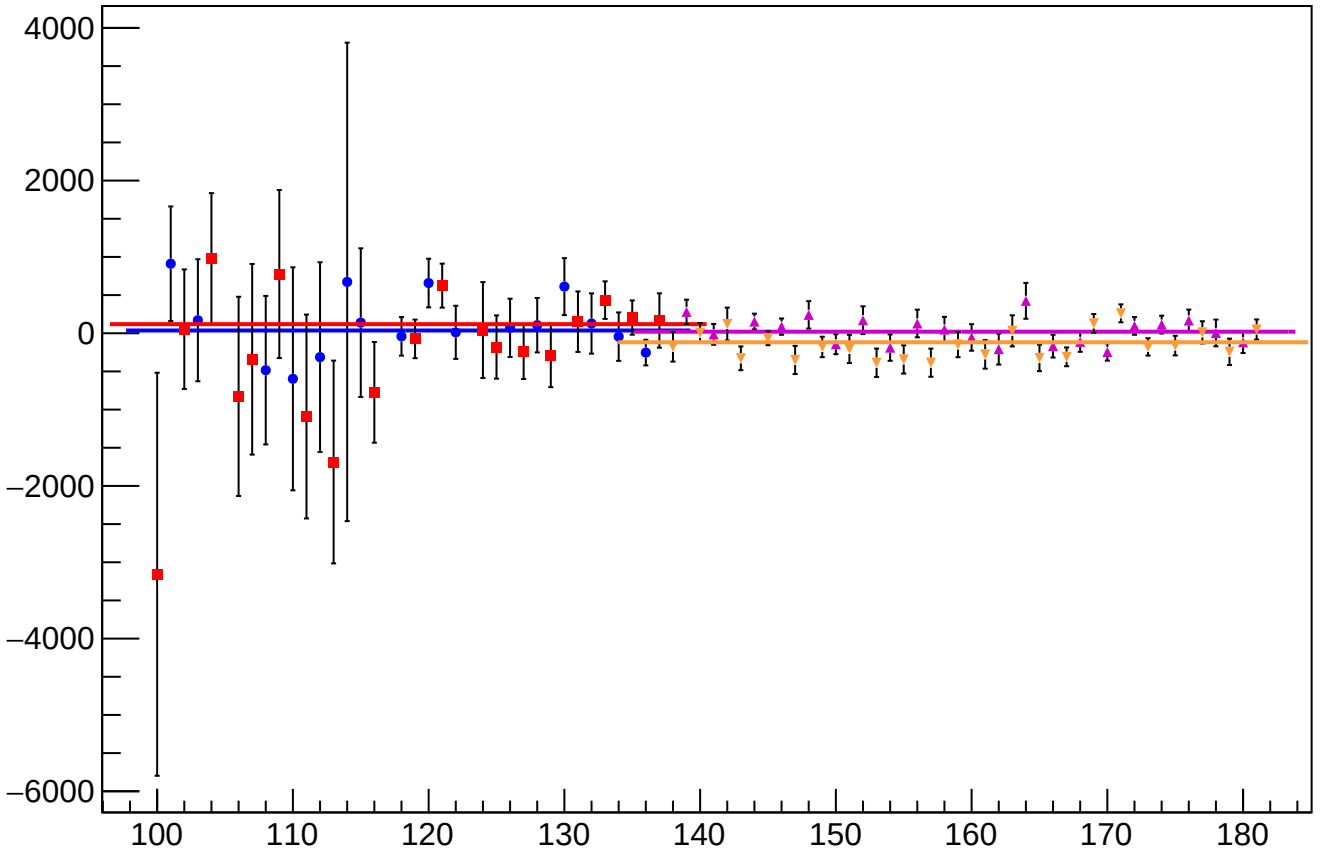
Left: 37.999+/-0.005 $\chi^2$/NDF: 931640.3/43

Right: 56.325+/-0.011 $\chi^2$/NDF: 2445763.7/34

In: 40.712+/-0.006 $\chi^2$/NDF:2658789.7/36

Out: 40.731+/-0.006 $\chi^2$/NDF:3137751.7/41

All: 40.722+/-0.004 $\chi^2$/NDF: 5796546.2/78




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -117.746+/-30.545 $\chi^2$/NDF:34.9/22

Right Out: 119.166+/-95.833 $\chi^2$/NDF: 16.0/18

Left In: 20.541+/-31.145 $\chi^2$/NDF:26.0/20

Left: -49.946+/-21.808 $\chi^2$/NDF: 71.0/43

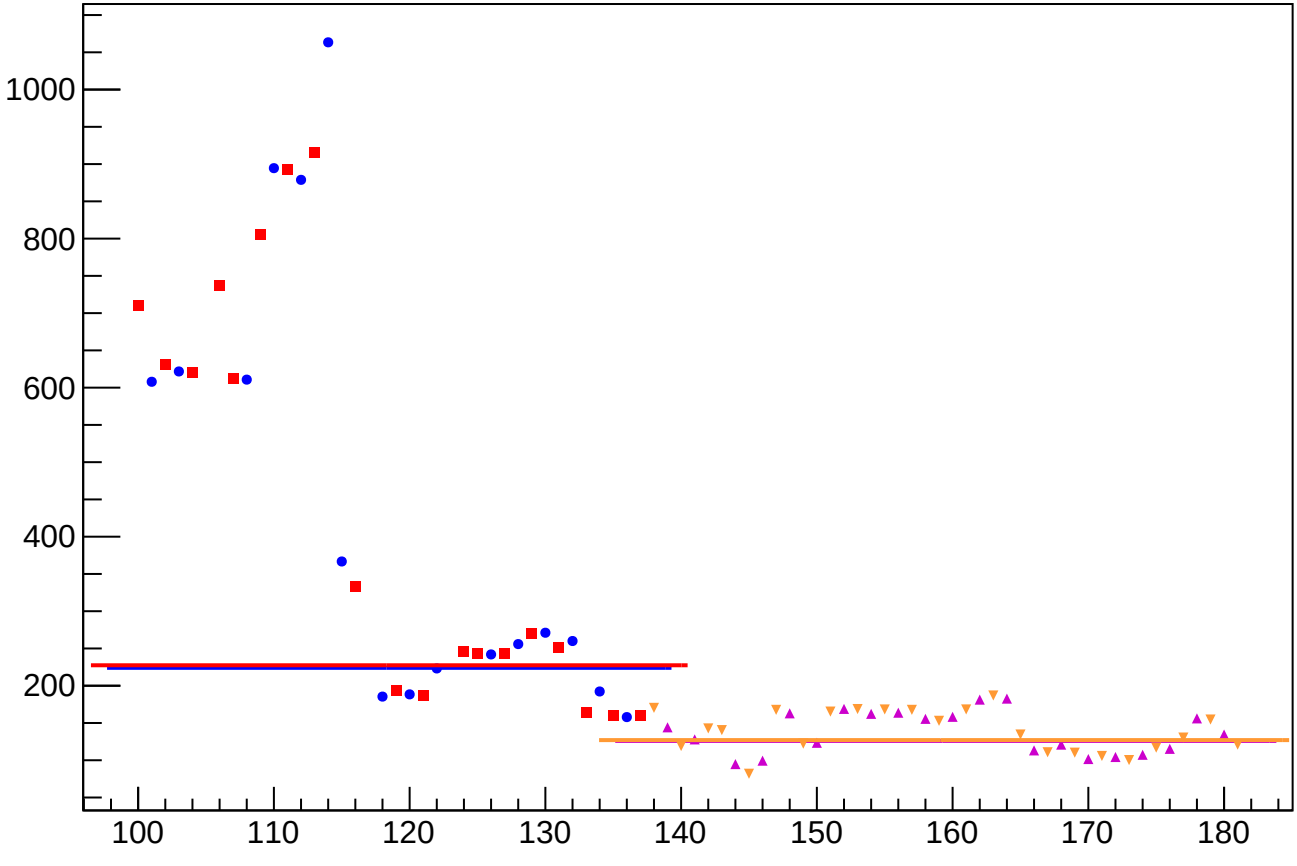
Right: 76.754+/-66.947 $\chi^2$/NDF: 27.8/34

In: 22.115+/-29.551 $\chi^2$/NDF:37.4/36

Out: -95.897+/-29.103 $\chi^2$/NDF:56.5/41

All: -37.792+/-20.735 $\chi^2$/NDF: 102.0/78

asym_sam_37_26_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968054.7/15

Left Out: 127.022+/-0.022 $\chi^2$/NDF:1738855.4/22

Right Out: 227.451+/-0.068 $\chi^2$/NDF: 3640634.3/18

Left In: 125.908+/-0.022 $\chi^2$/NDF:1410188.9/20

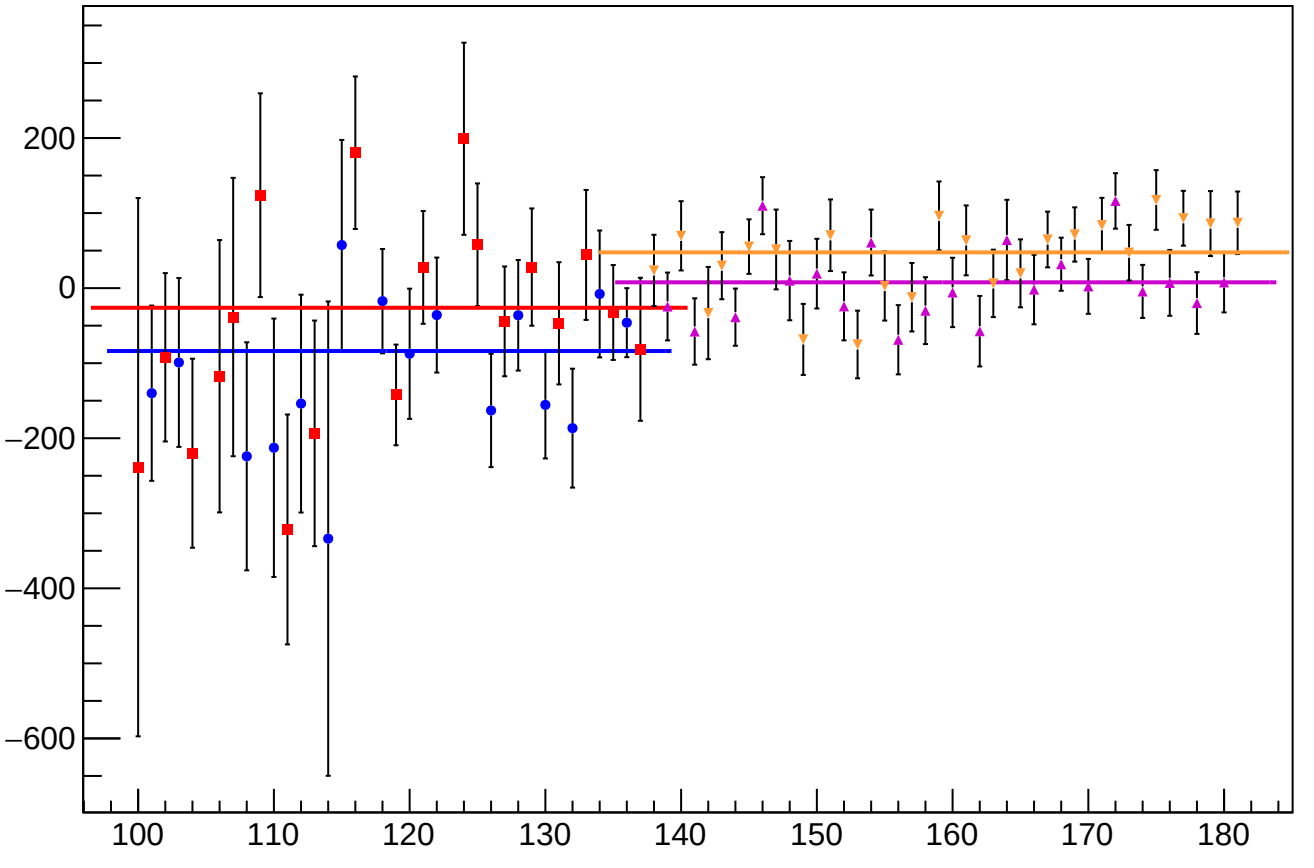
Left: 126.475+/-0.015 $\chi^2$/NDF: 3150348.0/43

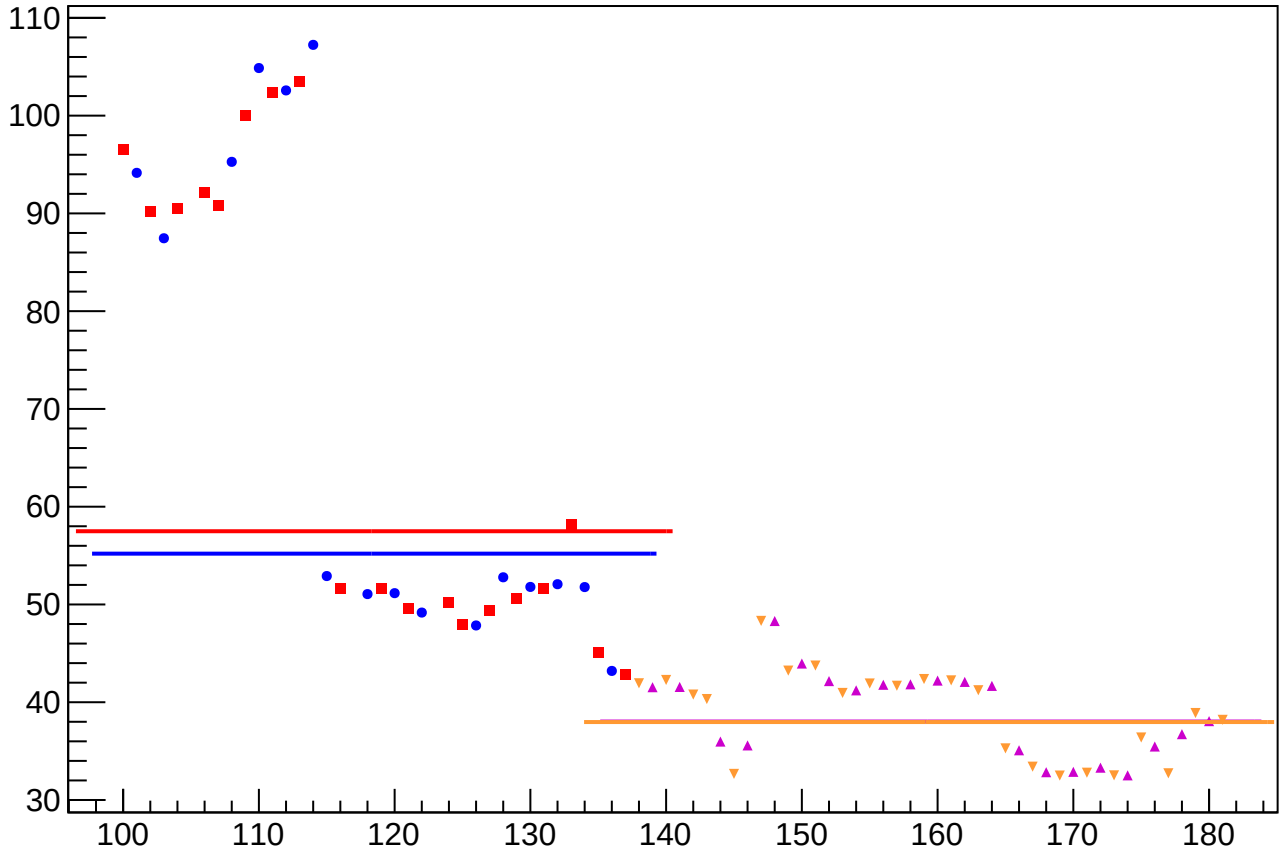
Right: 225.705+/-0.047 $\chi^2$/NDF: 6609984.7/34

In: 135.697+/-0.021 $\chi^2$/NDF:6358960.4/36

Out: 136.283+/-0.021 $\chi^2$/NDF:7373355.9/41

All: 135.995+/-0.015 $\chi^2$/NDF: 13732716.1/78


cor_asym_sam_37_26_dd_mean vs Slug, Sign Corrected
200
0
−200
−400
−600
100
110
120
130
140
150
160
170
180
Right In: -83.805+/-21.434 χ²/NDF: 10.5/15
Left Out: 47.675+/-8.942 χ²/NDF:29.2/22
Right Out: -26.142+/-22.069 χ²/NDF: 22.9/18
Left In: 7.756+/-9.231 χ²/NDF:29.7/20
Left: 28.349+/-6.423 χ²/NDF: 68.5/43
Right: -55.815+/-15.376 χ²/NDF: 37.0/34
In: -6.568+/-8.478 χ²/NDF:55.7/36
Out: 37.265+/-8.288 χ²/NDF:61.7/41
All: 15.845+/-5.926 χ²/NDF: 131.0/78




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.3/15

Left Out: 37.974+/-0.006 $\chi^2$/NDF:508211.7/22

Right Out: 57.490+/-0.016 $\chi^2$/NDF: 1274387.3/18

Left In: 38.026+/-0.007 $\chi^2$/NDF:423395.5/20

Left: 37.999+/-0.005 $\chi^2$/NDF: 931640.3/43

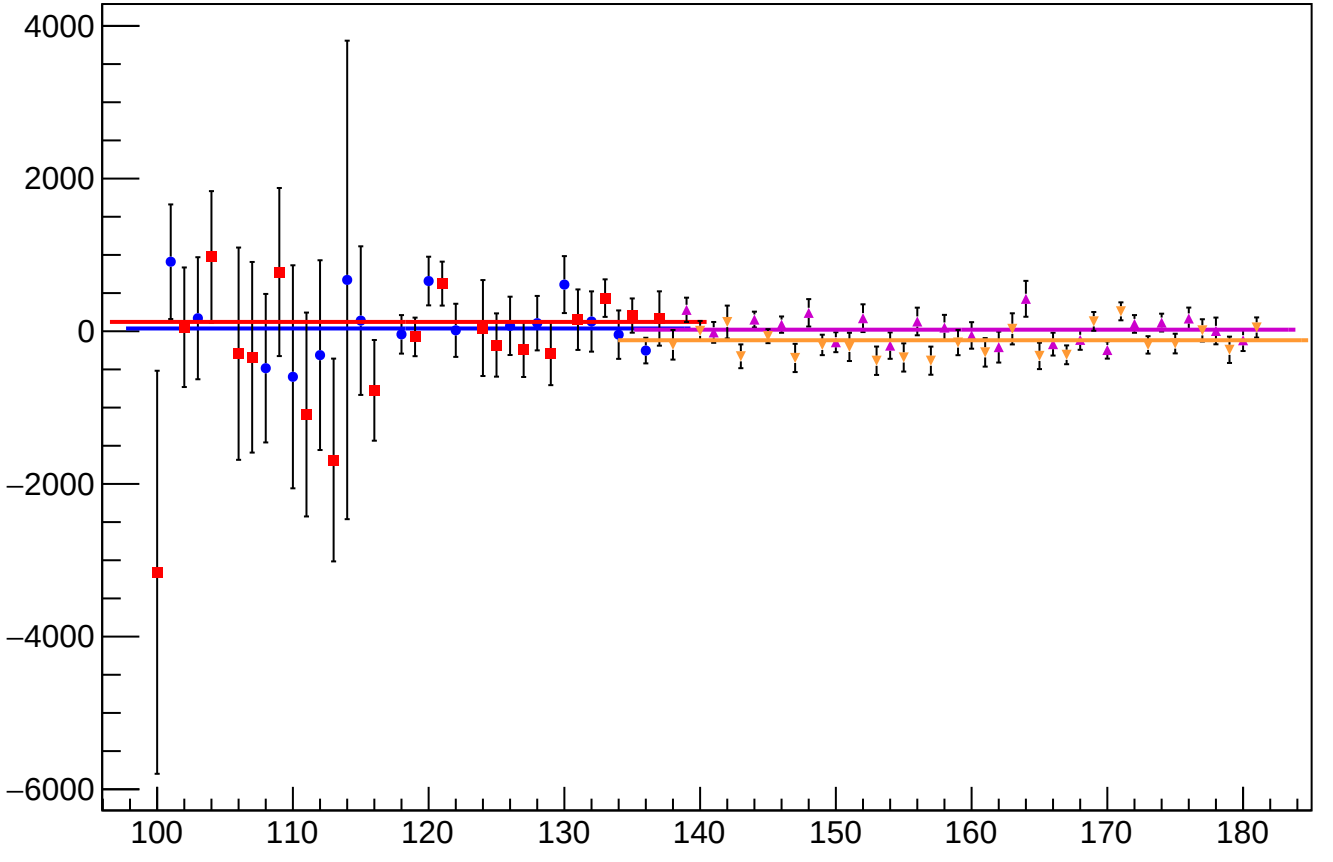
Right: 56.311+/-0.011 $\chi^2$/NDF: 2438075.6/34

In: 40.712+/-0.006 $\chi^2$/NDF:2658790.0/36

Out: 40.726+/-0.006 $\chi^2$/NDF:3126145.0/41

All: 40.719+/-0.004 $\chi^2$/NDF: 5784937.6/78

asym_sam_37_26_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -117.747+/-30.545 $\chi^2$/NDF:34.9/22

Right Out: 122.289+/-95.865 $\chi^2$/NDF: 15.6/18

Left In: 20.541+/-31.145 $\chi^2$/NDF:26.0/20

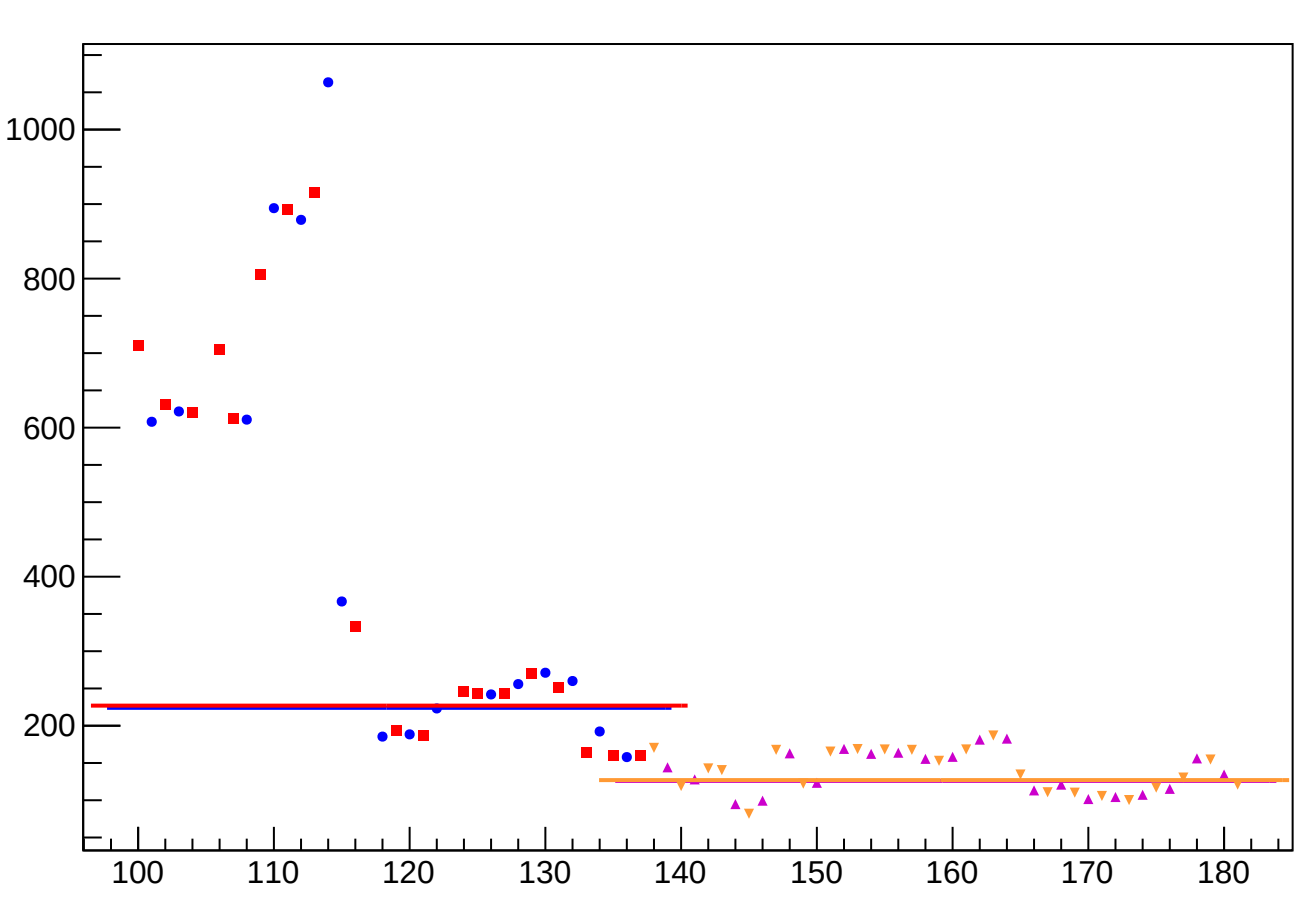
Left: -49.947+/-21.808 $\chi^2$/NDF: 71.0/43

Right: 78.263+/-66.958 $\chi^2$/NDF: 27.4/34

In: 22.116+/-29.551 $\chi^2$/NDF:37.4/36

Out: -95.623+/-29.104 $\chi^2$/NDF:56.2/41

All: -37.651+/-20.736 $\chi^2$/NDF: 101.7/78




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968059.8/15

Left Out: 127.022+/-0.022 $\chi^2$/NDF:1738851.7/22

Right Out: 226.971+/-0.068 $\chi^2$/NDF: 3571946.9/18

Left In: 125.908+/-0.022 $\chi^2$/NDF:1410197.3/20

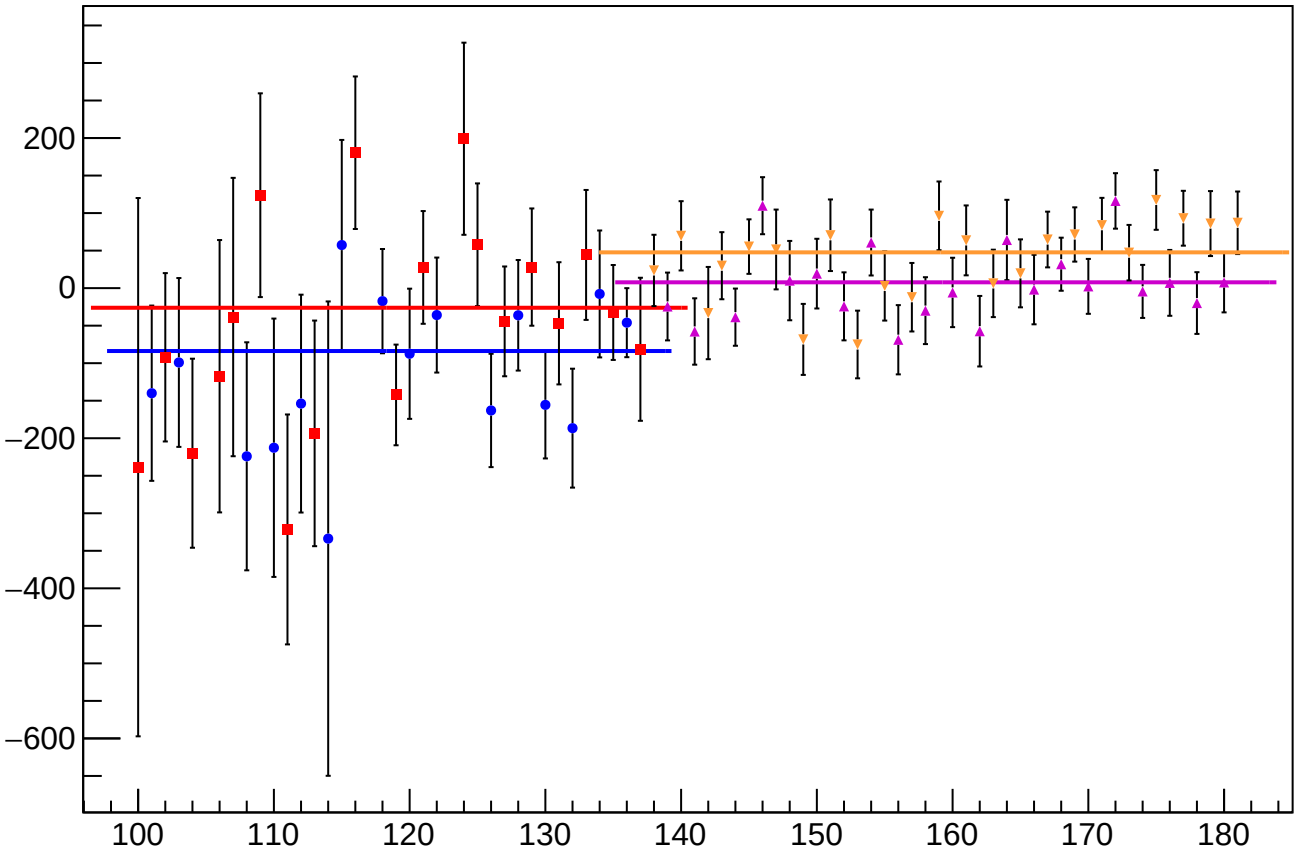
Left: 126.475+/-0.015 $\chi^2$/NDF: 3150352.9/43

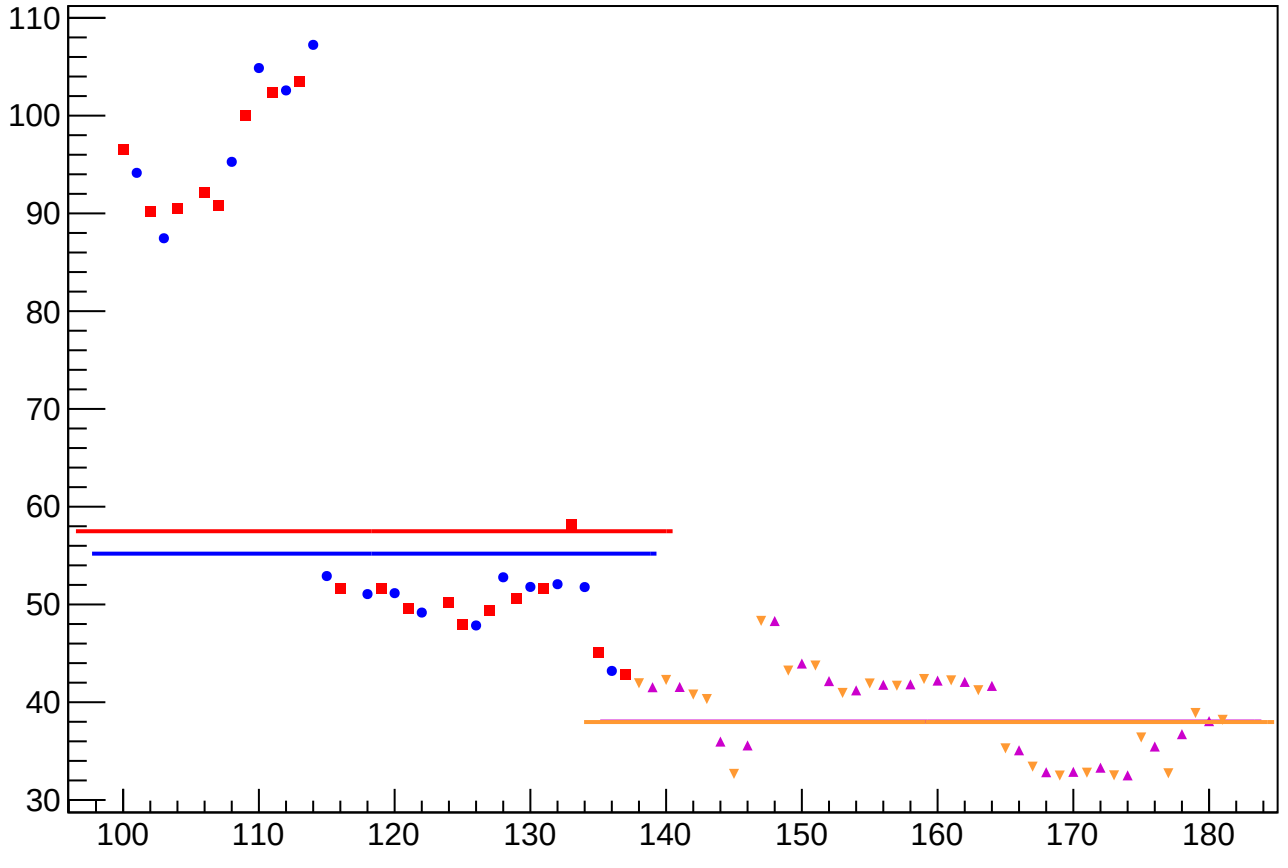
Right: 225.471+/-0.047 $\chi^2$/NDF: 6540963.0/34

In: 135.697+/-0.021 $\chi^2$/NDF:6358980.0/36

Out: 136.234+/-0.021 $\chi^2$/NDF:7284485.7/41

All: 135.969+/-0.015 $\chi^2$/NDF: 13643800.7/78


eigen_cor_asym_sam_37_26_dd_mean vs Slug, Sign Corrected
200
0
−200
−400
−600
100
110
120
130
140
150
160
170
180
Right In: -83.805+/-21.434 χ²/NDF: 10.5/15
Left Out: 47.675+/-8.942 χ²/NDF:29.2/22
Right Out: -26.142+/-22.069 χ²/NDF: 22.9/18
Left In: 7.756+/-9.231 χ²/NDF:29.7/20
Left: 28.349+/-6.423 χ²/NDF: 68.5/43
Right: -55.815+/-15.376 χ²/NDF: 37.0/34
In: -6.568+/-8.478 χ²/NDF:55.7/36
Out: 37.265+/-8.288 χ²/NDF:61.7/41
All: 15.845+/-5.926 χ²/NDF: 131.0/78




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.3/15

Left Out: 37.974+/-0.006 $\chi^2$/NDF:508211.7/22

Right Out: 57.490+/-0.016 $\chi^2$/NDF: 1274387.3/18

Left In: 38.026+/-0.007 $\chi^2$/NDF:423395.5/20

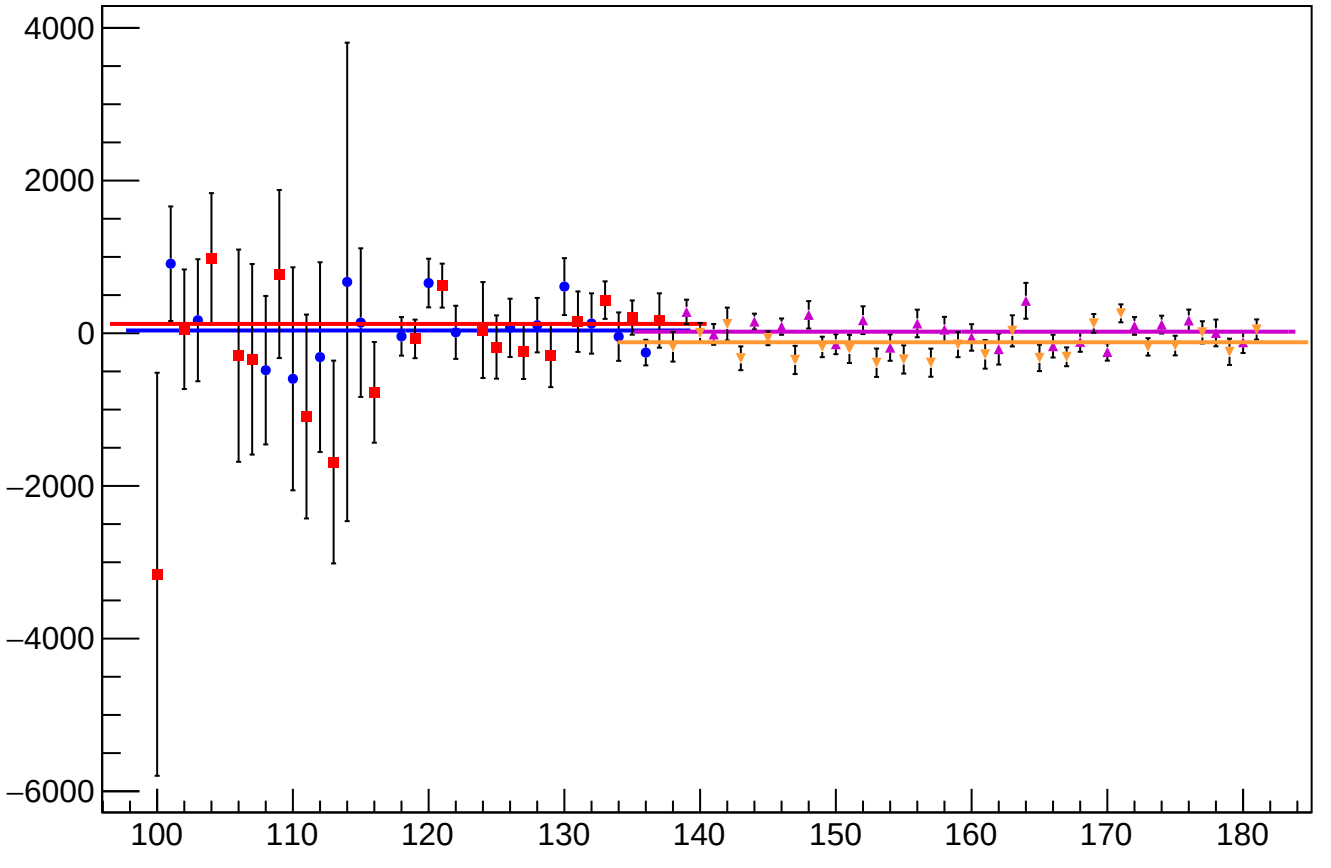
Left: 37.999+/-0.005 $\chi^2$/NDF: 931640.3/43

Right: 56.311+/-0.011 $\chi^2$/NDF: 2438075.6/34

In: 40.712+/-0.006 $\chi^2$/NDF:2658790.0/36

Out: 40.726+/-0.006 $\chi^2$/NDF:3126145.0/41

All: 40.719+/-0.004 $\chi^2$/NDF: 5784937.6/78




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -117.747+/-30.545 $\chi^2$/NDF:34.9/22

Right Out: 122.289+/-95.865 $\chi^2$/NDF: 15.6/18

Left In: 20.541+/-31.145 $\chi^2$/NDF:26.0/20

Left: -49.947+/-21.808 $\chi^2$/NDF: 71.0/43

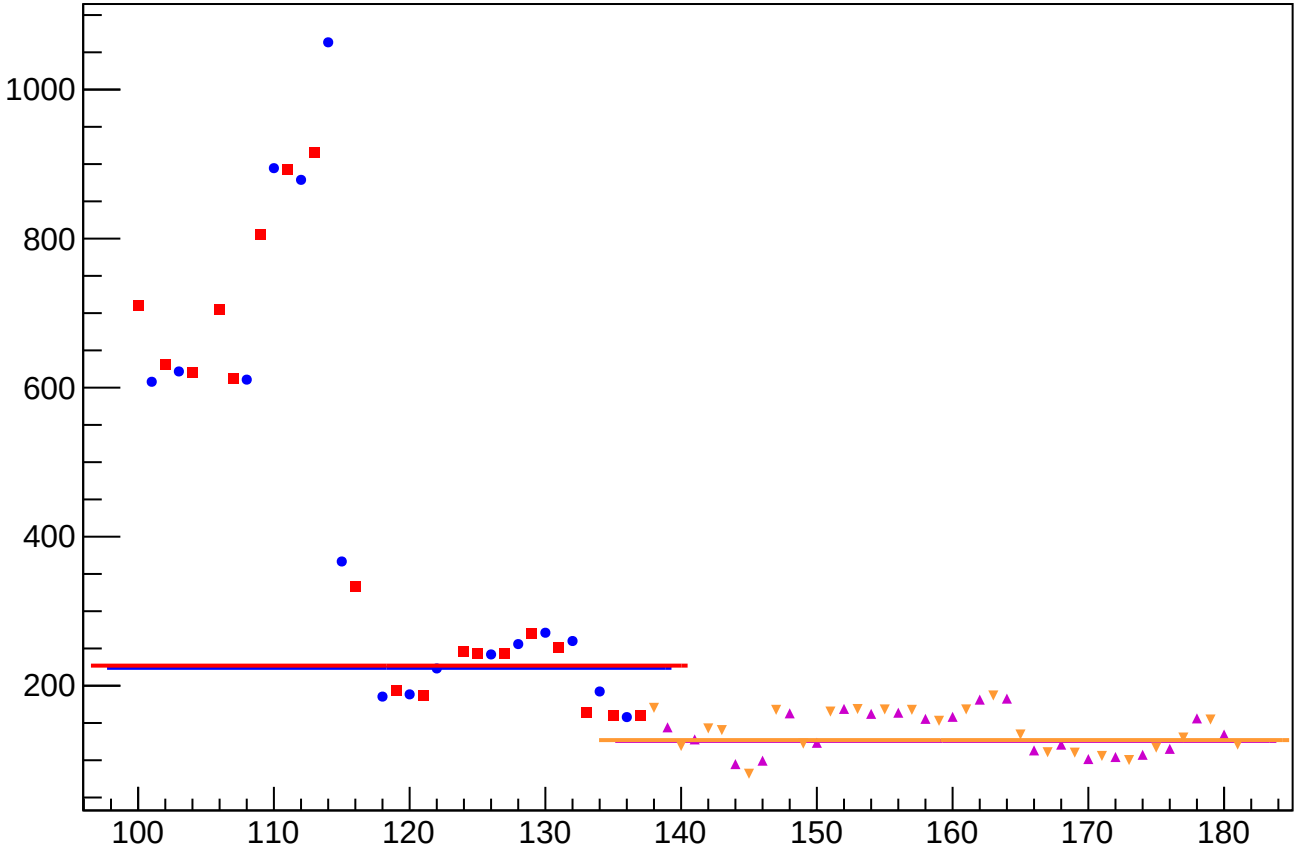
Right: 78.263+/-66.958 $\chi^2$/NDF: 27.4/34

In: 22.116+/-29.551 $\chi^2$/NDF:37.4/36

Out: -95.623+/-29.104 $\chi^2$/NDF:56.2/41

All: -37.651+/-20.736 $\chi^2$/NDF: 101.7/78

asym_sam_37_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968059.8/15

Left Out: 127.022+/-0.022 $\chi^2$/NDF:1738851.7/22

Right Out: 226.971+/-0.068 $\chi^2$/NDF: 3571946.9/18

Left In: 125.908+/-0.022 $\chi^2$/NDF:1410197.3/20

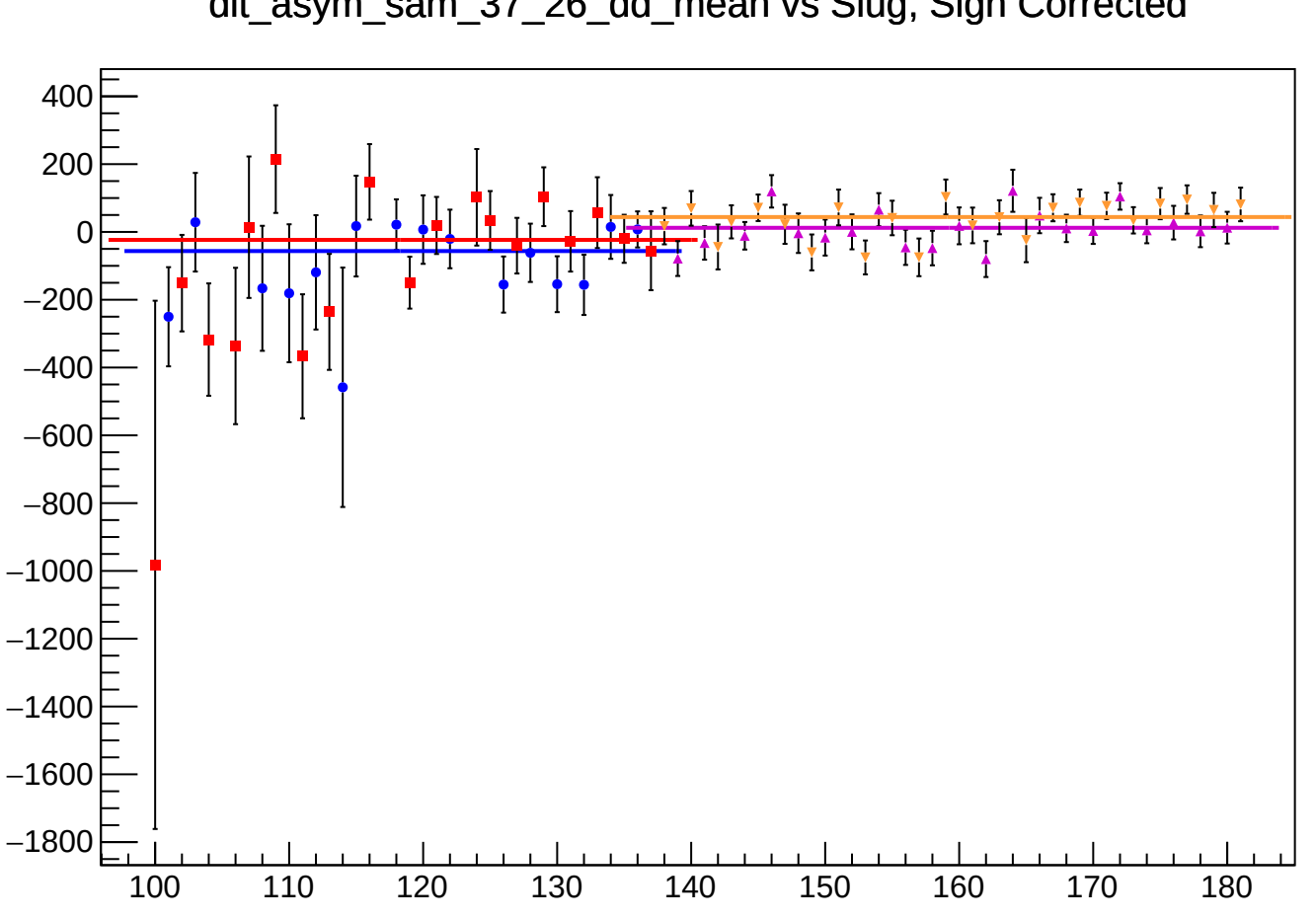
Left: 126.475+/-0.015 $\chi^2$/NDF: 3150352.9/43

Right: 225.471+/-0.047 $\chi^2$/NDF: 6540963.0/34

In: 135.697+/-0.021 $\chi^2$/NDF:6358980.0/36

Out: 136.234+/-0.021 $\chi^2$/NDF:7284485.7/41

All: 135.969+/-0.015 $\chi^2$/NDF: 13643800.7/78




Right In: -56.414+/-24.489 $\chi^2$/NDF: 12.3/15

Left Out: 43.965+/-10.011 $\chi^2$/NDF:25.5/22

Right Out: -23.495+/-25.161 $\chi^2$/NDF: 24.1/18

Left In: 12.150+/-10.363 $\chi^2$/NDF:26.0/20

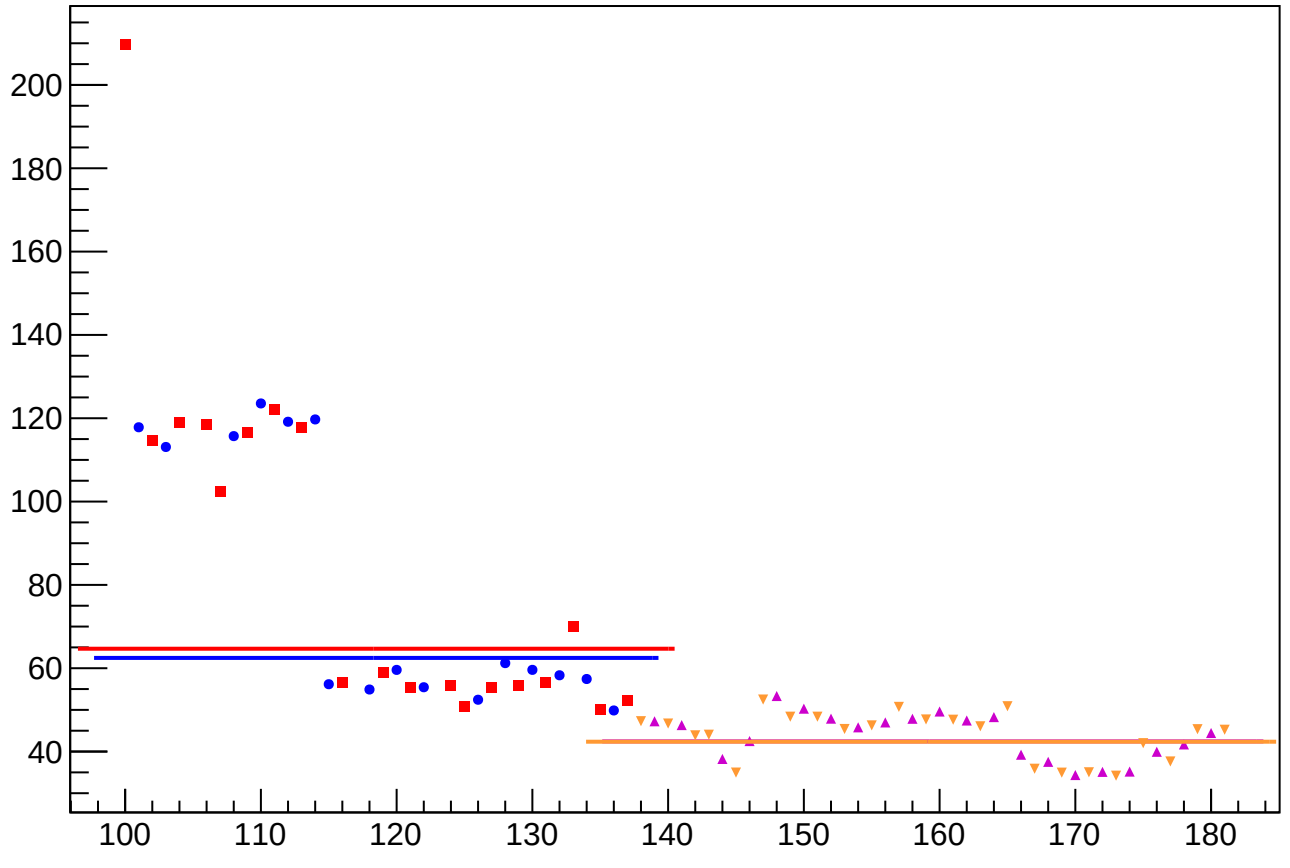
Left: 28.607+/-7.200 $\chi^2$/NDF: 56.4/43

Right: -40.400+/-17.549 $\chi^2$/NDF: 37.2/34

In: 1.737+/-9.544 $\chi^2$/NDF:44.9/36

Out: 34.746+/-9.301 $\chi^2$/NDF:55.8/41

All: 18.665+/-6.661 $\chi^2$/NDF: 106.8/78




Right In: 62.474+/-0.017 $\chi^2$/NDF: 1348224.3/15

Left Out: 42.363+/-0.007 $\chi^2$/NDF:695383.5/22

Right Out: 64.680+/-0.018 $\chi^2$/NDF: 1590446.9/18

Left In: 42.439+/-0.007 $\chi^2$/NDF:583212.4/20

Left: 42.400+/-0.005 $\chi^2$/NDF: 1278652.7/43

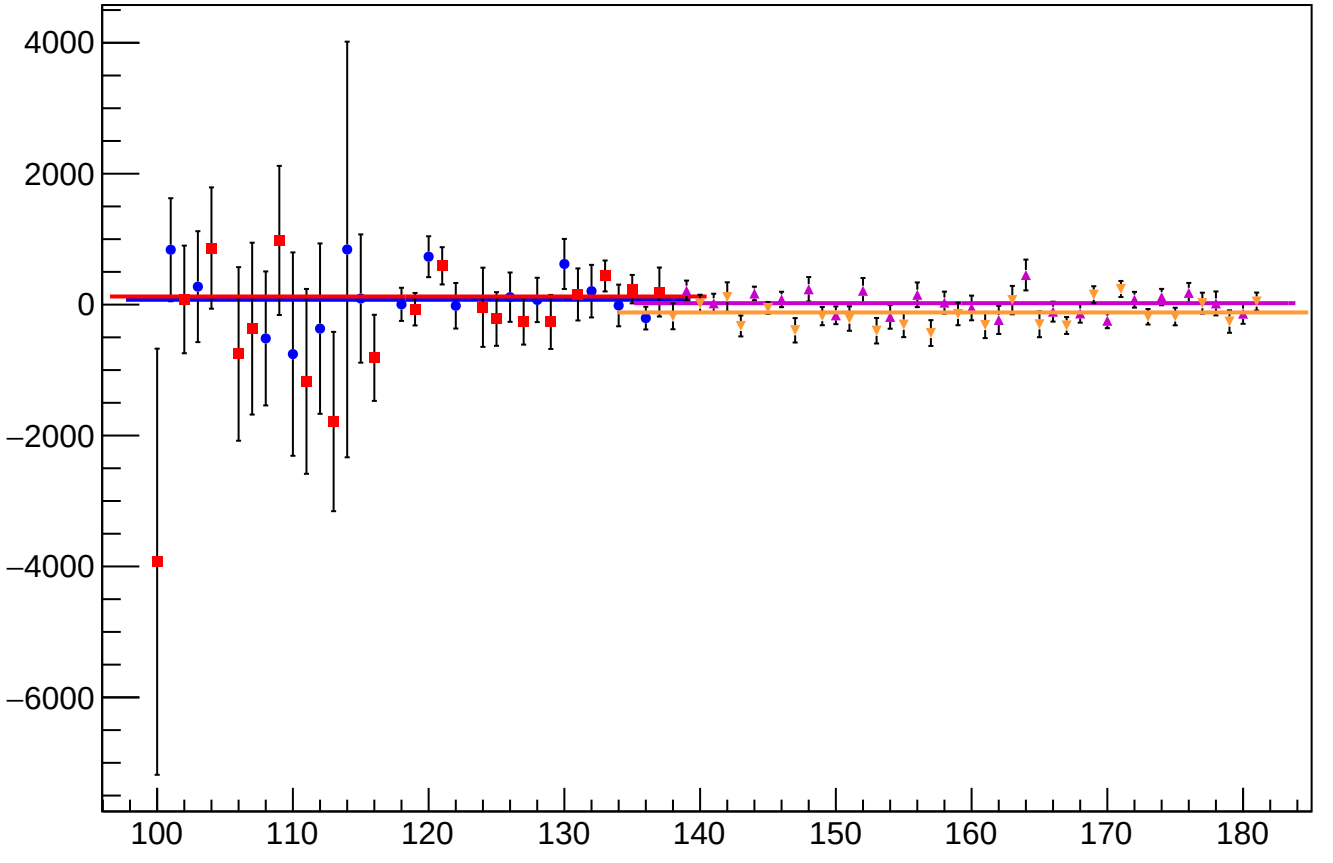
Right: 63.547+/-0.012 $\chi^2$/NDF: 2946567.9/34

In: 45.482+/-0.007 $\chi^2$/NDF:3066781.6/36

Out: 45.413+/-0.007 $\chi^2$/NDF:3644366.0/41

All: 45.446+/-0.005 $\chi^2$/NDF: 6711201.8/78

asym_sam_37_26_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 74.294+/-94.492 $\chi^2$/NDF: 11.2/15

Left Out: -119.470+/-31.714 $\chi^2$/NDF:33.8/22

Right Out: 124.201+/-94.665 $\chi^2$/NDF: 16.3/18

Left In: 22.224+/-32.594 $\chi^2$/NDF:24.9/20

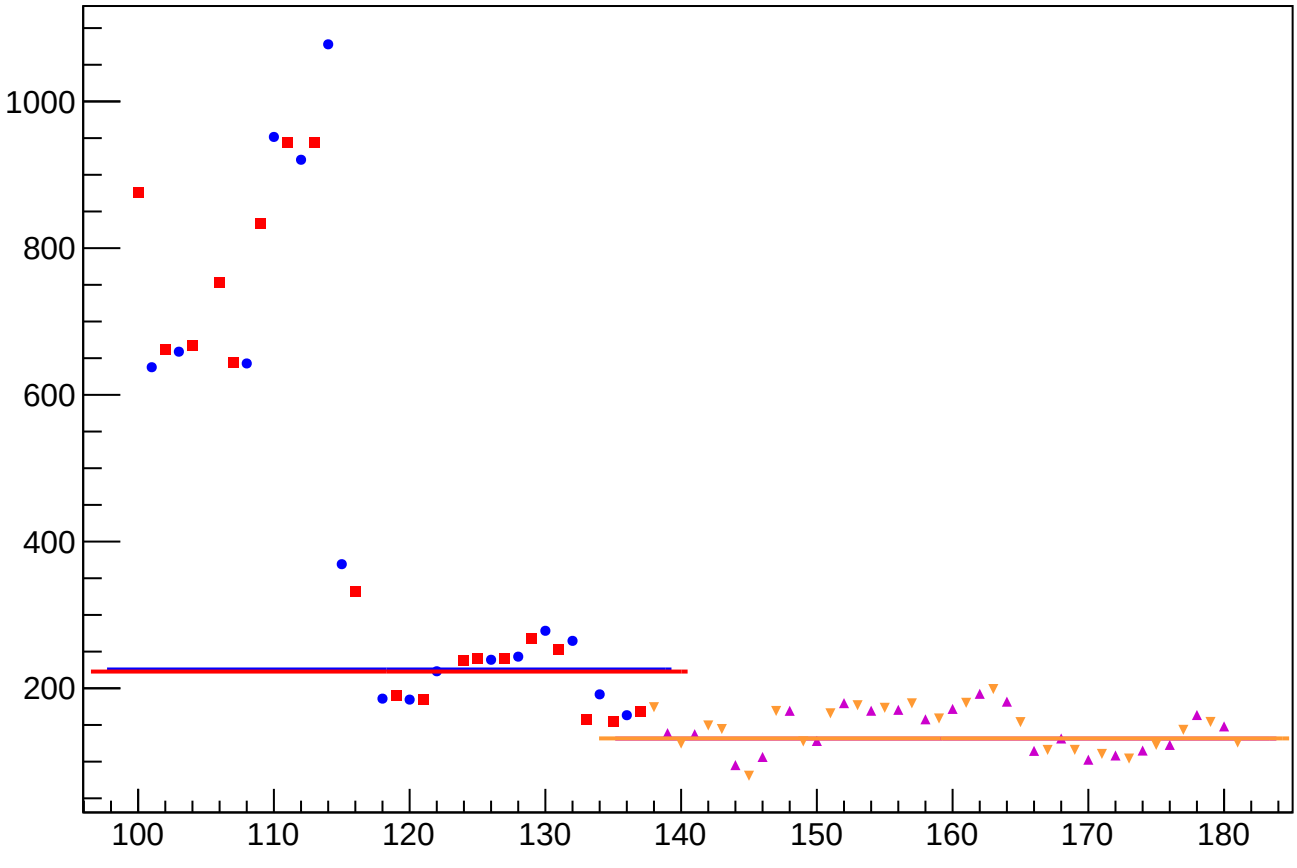
Left: -50.563+/-22.730 $\chi^2$/NDF: 68.4/43

Right: 99.202+/-66.877 $\chi^2$/NDF: 27.7/34

In: 27.761+/-30.813 $\chi^2$/NDF:36.4/36

Out: -94.882+/-30.071 $\chi^2$/NDF:56.1/41

All: -35.054+/-21.521 $\chi^2$/NDF: 100.6/78




Right In: 225.614+/-0.067 $\chi^2$/NDF: 3026007.7/15

Left Out: 131.666+/-0.022 $\chi^2$/NDF:1899745.9/22

Right Out: 222.786+/-0.067 $\chi^2$/NDF: 3848156.1/18

Left In: 131.412+/-0.023 $\chi^2$/NDF:1463419.2/20

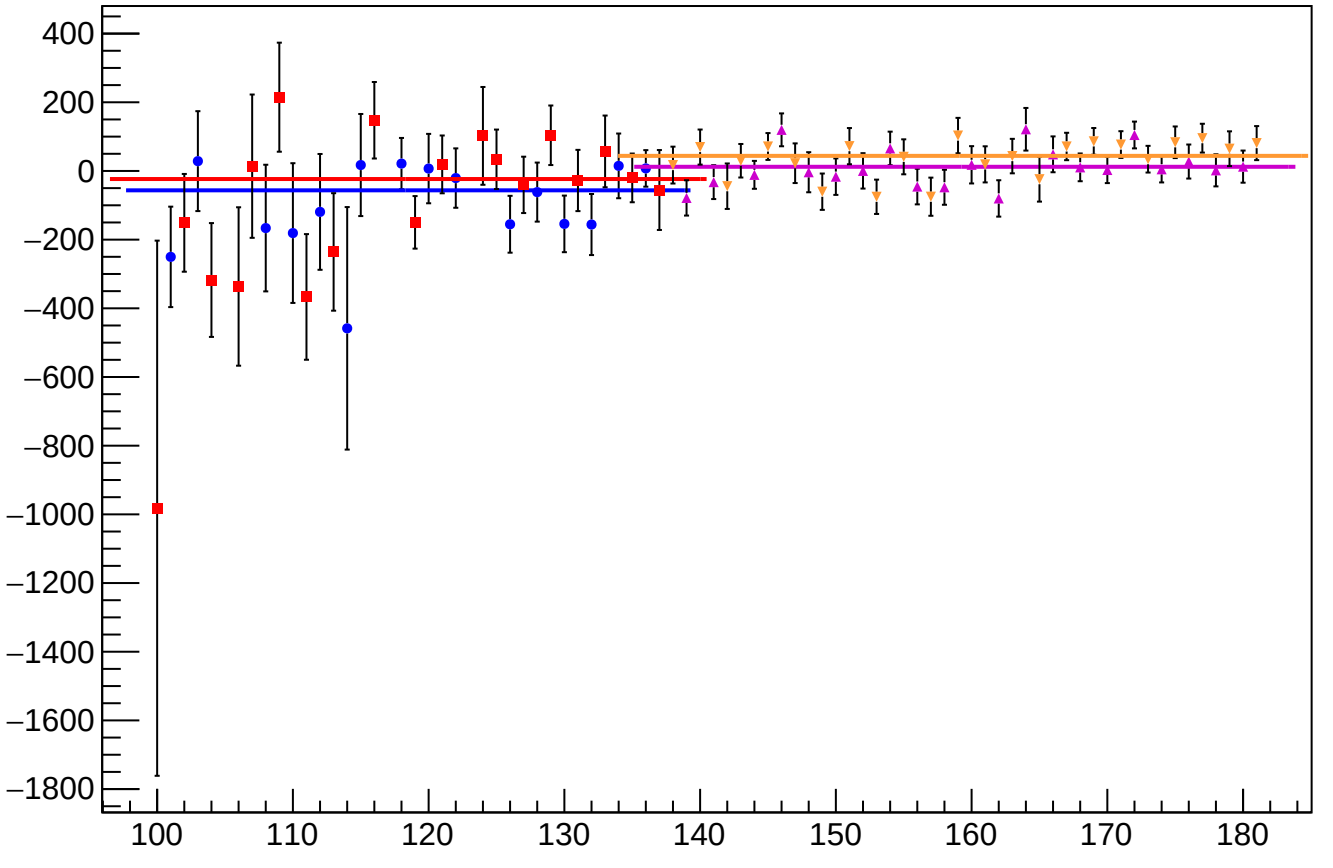
Left: 131.543+/-0.016 $\chi^2$/NDF: 3363227.8/43

Right: 224.203+/-0.047 $\chi^2$/NDF: 6875057.9/34

In: 141.429+/-0.022 $\chi^2$/NDF:6265813.9/36

Out: 140.861+/-0.021 $\chi^2$/NDF:7413906.1/41

All: 141.138+/-0.015 $\chi^2$/NDF: 13680067.7/78




Right In: -56.415+/-24.489 $\chi^2$/NDF: 12.3/15

Left Out: 43.966+/-10.011 $\chi^2$/NDF:25.5/22

Right Out: -23.498+/-25.160 $\chi^2$/NDF: 24.1/18

Left In: 12.150+/-10.363 $\chi^2$/NDF:26.0/20

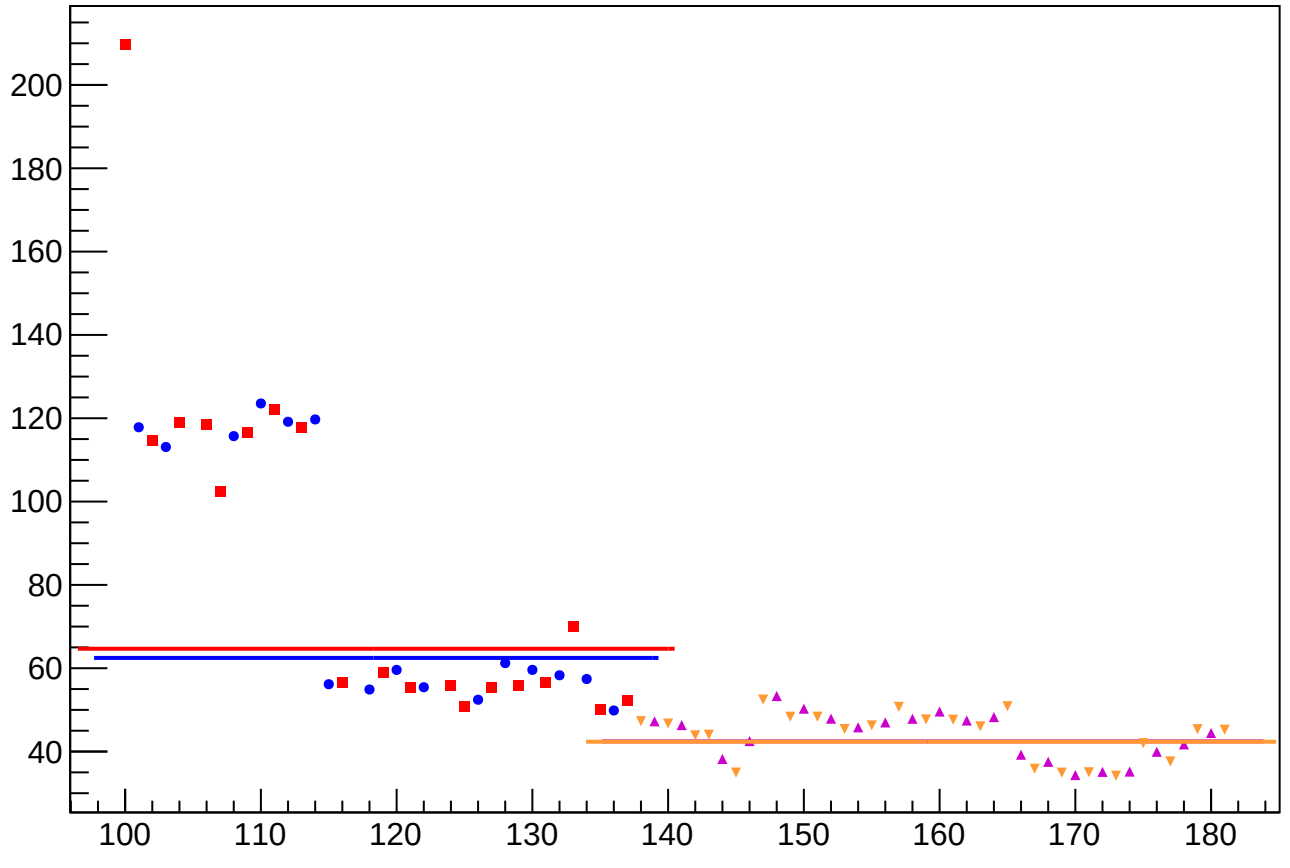
Left: 28.608+/-7.200 $\chi^2$/NDF: 56.4/43

Right: -40.402+/-17.549 $\chi^2$/NDF: 37.2/34

In: 1.737+/-9.544 $\chi^2$/NDF:44.9/36

Out: 34.746+/-9.301 $\chi^2$/NDF:55.8/41

All: 18.665+/-6.661 $\chi^2$/NDF: 106.8/78




Right In: 62.474+/-0.017 $\chi^2$/NDF: 1348204.7/15

Left Out: 42.363+/-0.007 $\chi^2$/NDF:695402.0/22

Right Out: 64.680+/-0.018 $\chi^2$/NDF: 1590426.1/18

Left In: 42.439+/-0.007 $\chi^2$/NDF:583218.1/20

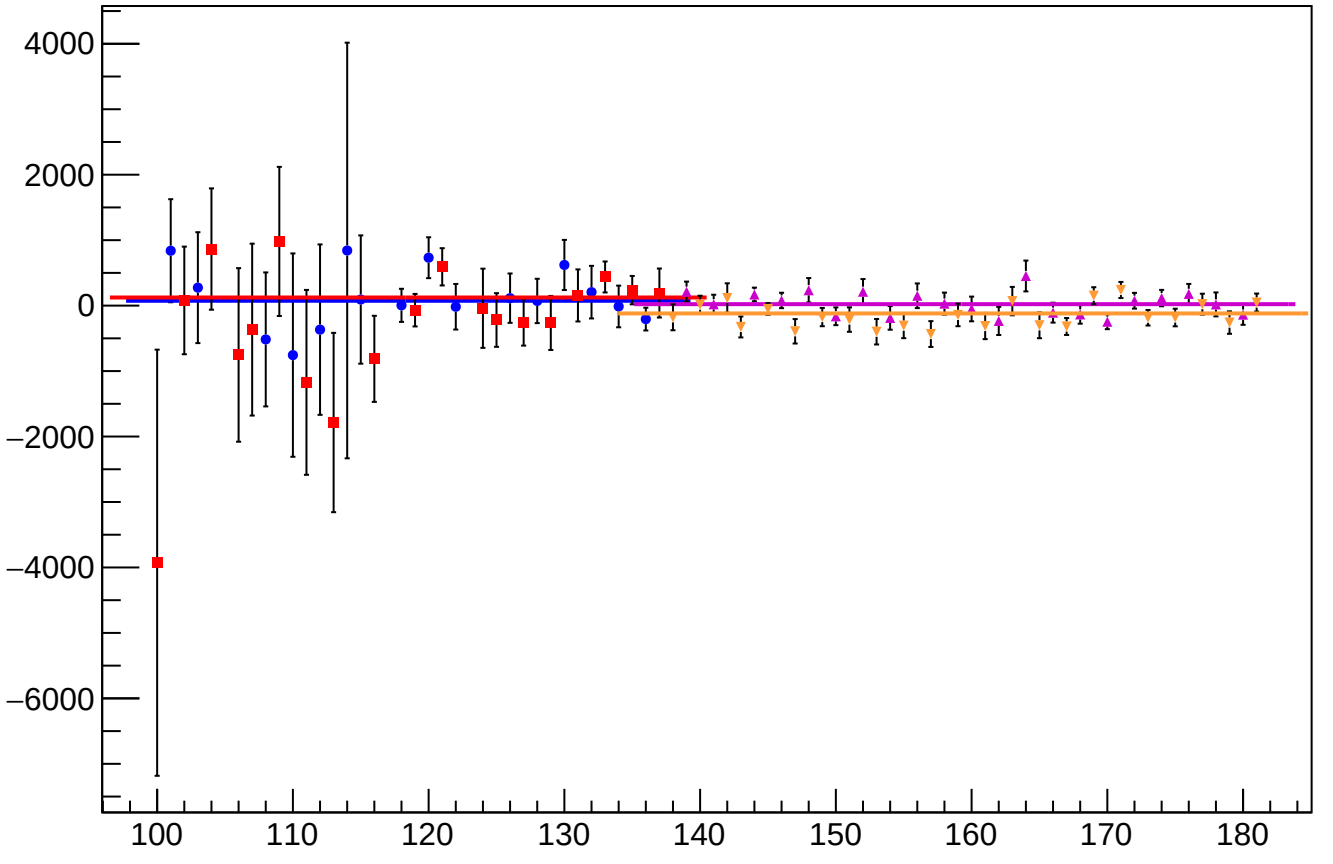
Left: 42.400+/-0.005 $\chi^2$/NDF: 1278677.0/43

Right: 63.547+/-0.012 $\chi^2$/NDF: 2946529.3/34

In: 45.482+/-0.007 $\chi^2$/NDF:3066715.8/36

Out: 45.413+/-0.007 $\chi^2$/NDF:3644340.6/41

All: 45.446+/-0.005 $\chi^2$/NDF: 6711110.7/78




Right In: 74.295+/-94.492 $\chi^2$/NDF: 11.2/15

Left Out: -119.470+/-31.714 $\chi^2$/NDF:33.8/22

Right Out: 124.199+/-94.666 $\chi^2$/NDF: 16.3/18

Left In: 22.224+/-32.595 $\chi^2$/NDF:24.9/20

Left: -50.563+/-22.730 $\chi^2$/NDF: 68.4/43

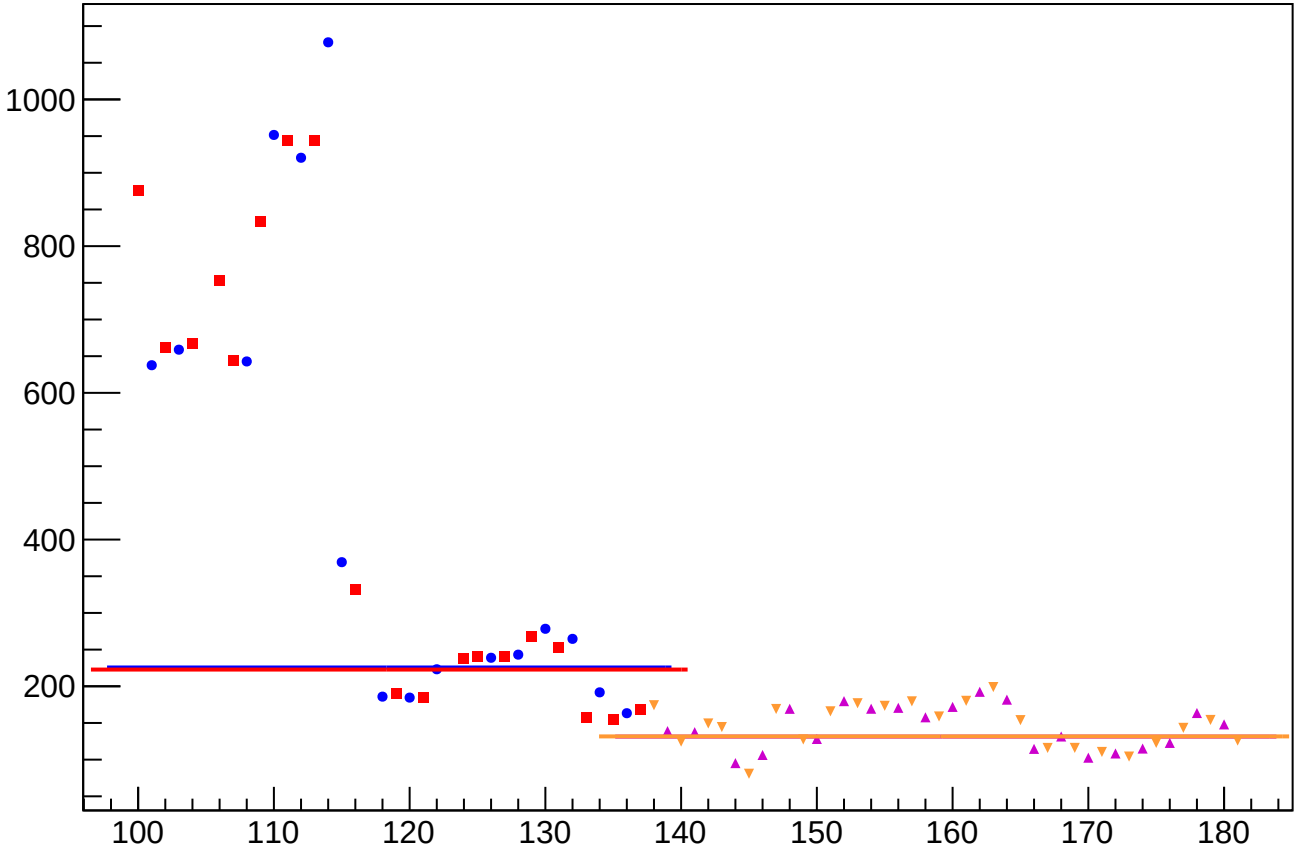
Right: 99.201+/-66.877 $\chi^2$/NDF: 27.7/34

In: 27.761+/-30.813 $\chi^2$/NDF:36.4/36

Out: -94.882+/-30.071 $\chi^2$/NDF:56.1/41

All: -35.054+/-21.521 $\chi^2$/NDF: 100.6/78

asym_sam_37_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 225.614+/-0.067 $\chi^2$/NDF: 3025994.8/15

Left Out: 131.667+/-0.022 $\chi^2$/NDF:1899738.3/22

Right Out: 222.787+/-0.067 $\chi^2$/NDF: 3848136.6/18

Left In: 131.412+/-0.023 $\chi^2$/NDF:1463421.9/20

Left: 131.543+/-0.016 $\chi^2$/NDF: 3363223.0/43

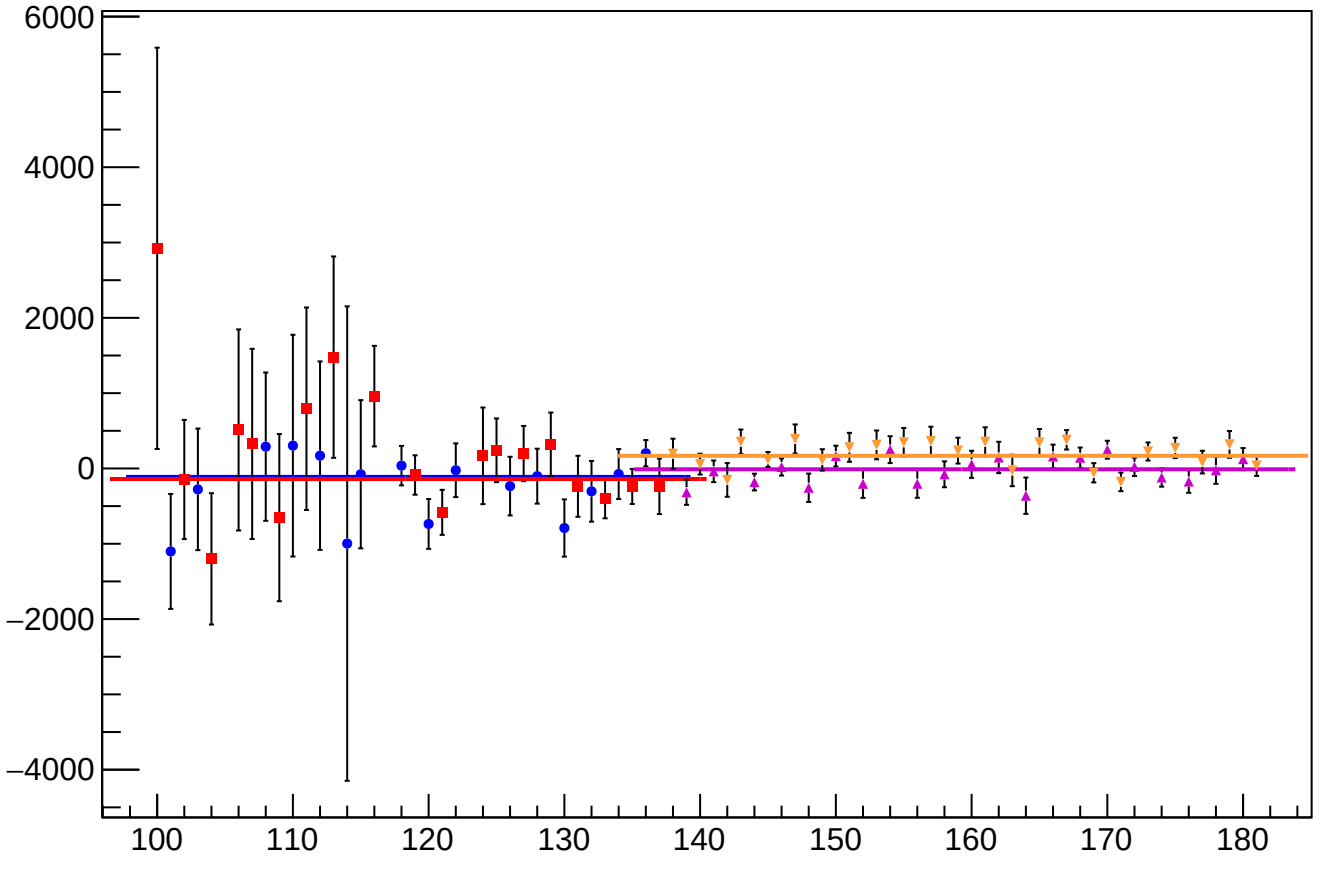
Right: 224.203+/-0.047 $\chi^2$/NDF: 6875025.2/34

In: 141.429+/-0.022 $\chi^2$/NDF:6265794.8/36

Out: 140.861+/-0.021 $\chi^2$/NDF:7413882.6/41

All: 141.138+/-0.015 $\chi^2$/NDF: 13680025.0/78

# asym_sam_37_26_dd_mean vs Slug, Sign Corrected




Right In: -111.916+/-96.551 $\chi^2$/NDF: 12.8/15

Left Out: 168.114+/-31.974 $\chi^2$/NDF:28.0/22

Right Out: -139.974+/-99.174 $\chi^2$/NDF: 14.6/18

Left In: -10.783+/-32.625 $\chi^2$/NDF:26.4/20

Left: 80.469+/-22.835 $\chi^2$/NDF: 69.8/43

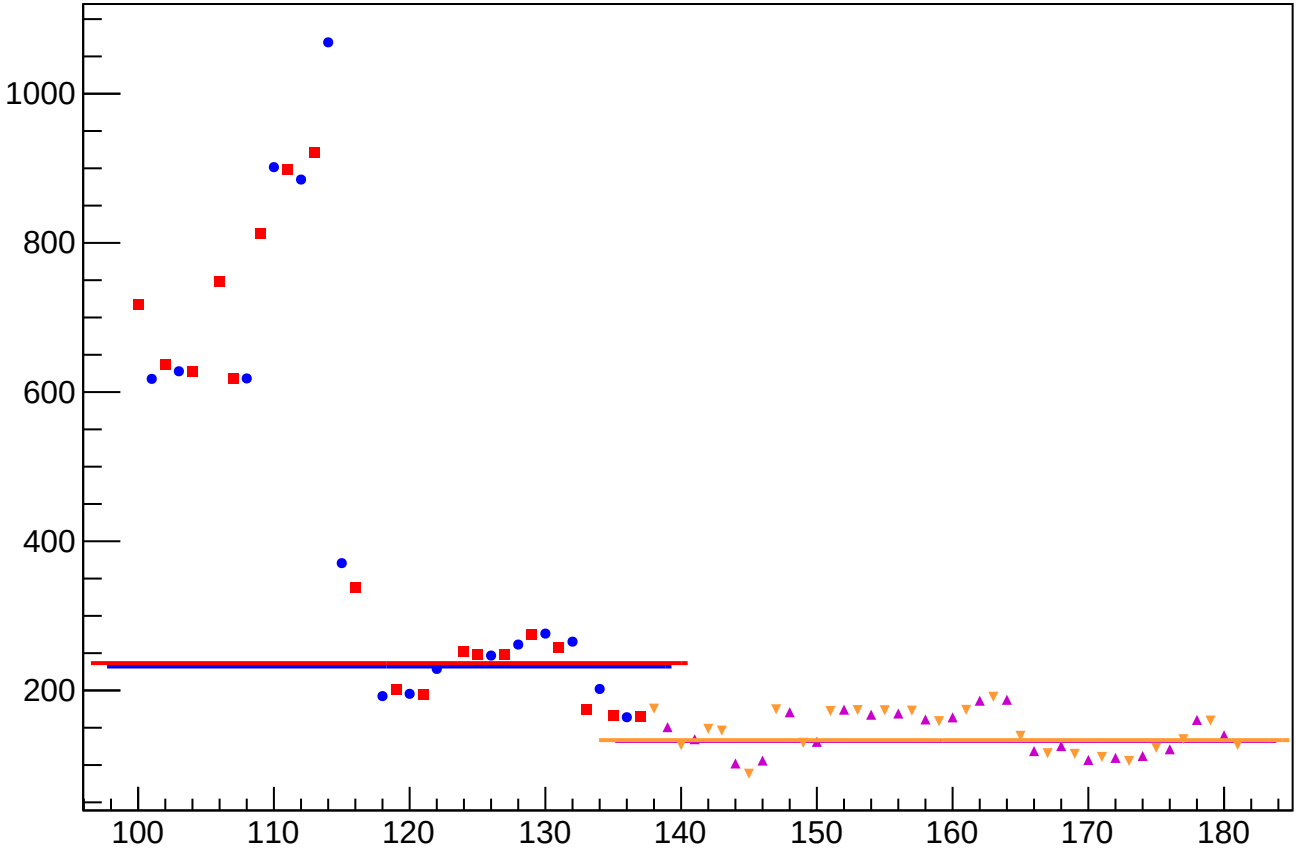
Right: -125.569+/-69.180 $\chi^2$/NDF: 27.5/34

In: -21.147+/-30.908 $\chi^2$/NDF:40.3/36

Out: 139.106+/-30.431 $\chi^2$/NDF:51.4/41

All: 60.225+/-21.685 $\chi^2$/NDF: 105.3/78

# asym_sam_37_26_dd_rms vs Slug, Sign Corrected




Right In: 232.107+/-0.068 $\chi^2$/NDF: 2885510.6/15

Left Out: 133.352+/-0.023 $\chi^2$/NDF:1573905.5/22

Right Out: 236.647+/-0.070 $\chi^2$/NDF: 3521033.7/18

Left In: 132.244+/-0.023 $\chi^2$/NDF:1277388.1/20

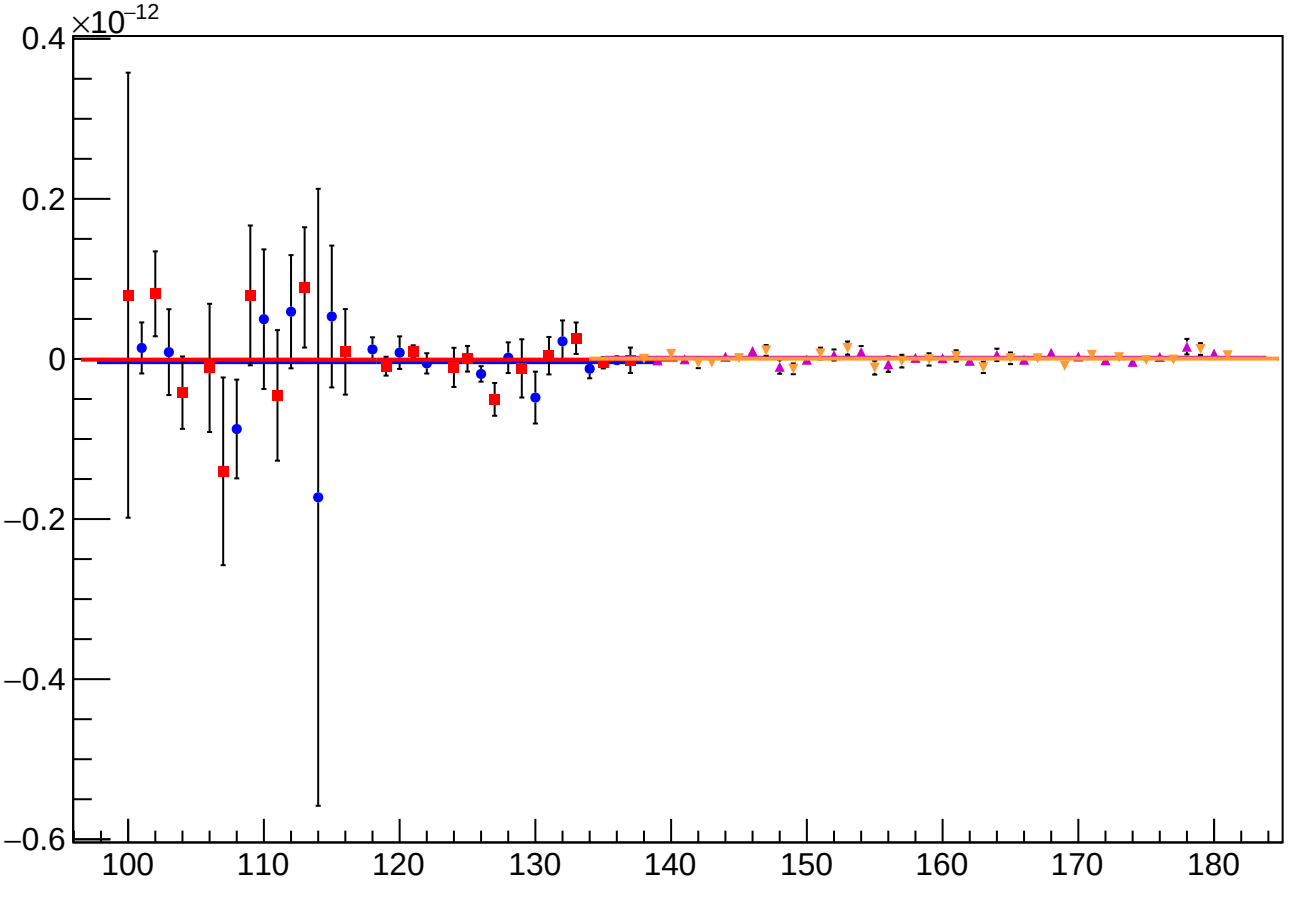
Left: 132.809+/-0.016 $\chi^2$/NDF: 2852469.9/43

Right: 234.316+/-0.049 $\chi^2$/NDF: 6408696.2/34

In: 142.478+/-0.022 $\chi^2$/NDF:6083209.7/36

Out: 143.078+/-0.022 $\chi^2$/NDF:7060324.0/41

All: 142.782+/-0.015 $\chi^2$/NDF: 13143916.1/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:26.5/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.5/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 41.5/43

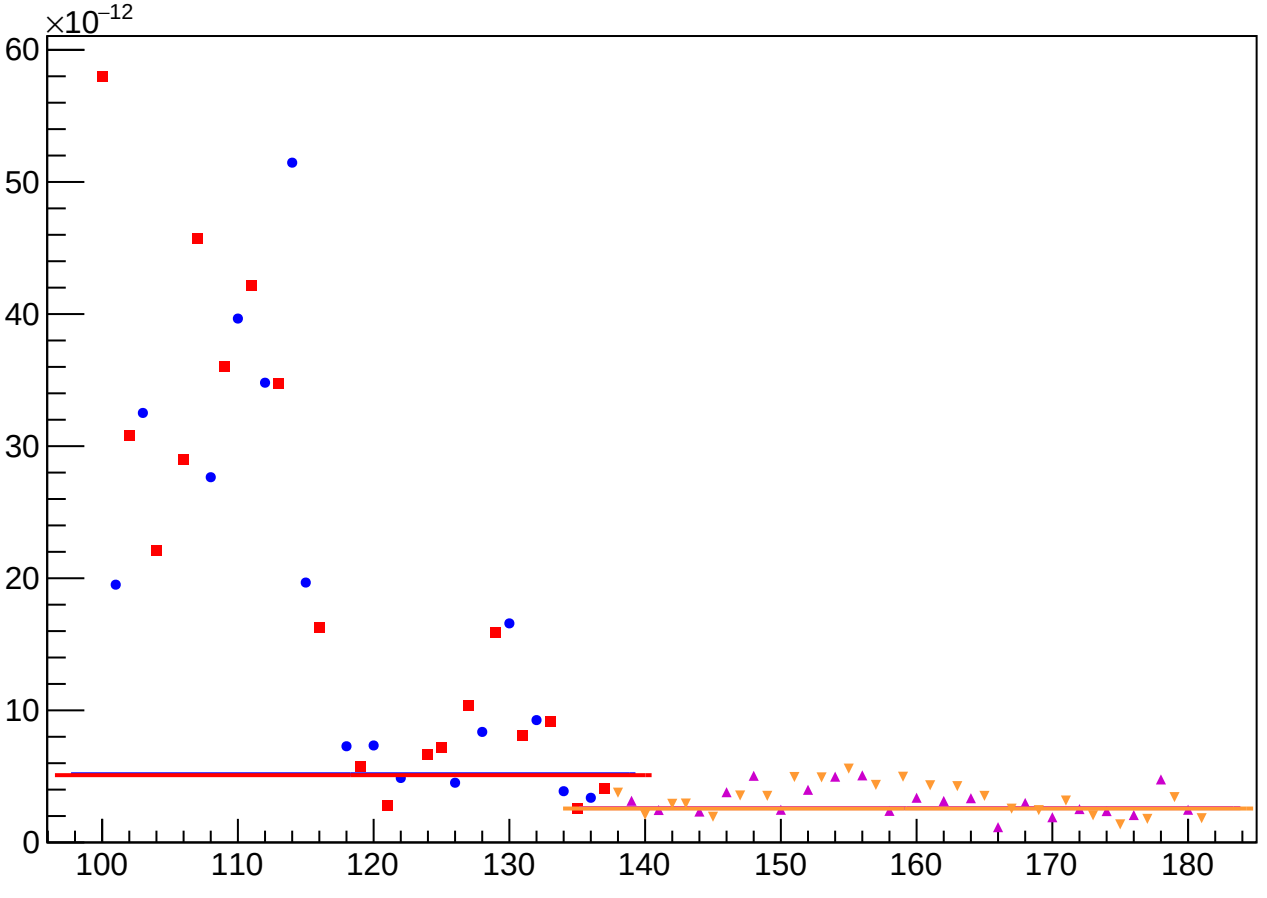
Right: -0.000+/-0.000 $\chi^2$/NDF: 29.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:27.9/36

Out: 0.000+/-0.000 $\chi^2$/NDF:44.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 72.9/78

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2618432.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2150810.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3236196.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1375900.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3527557.1/43

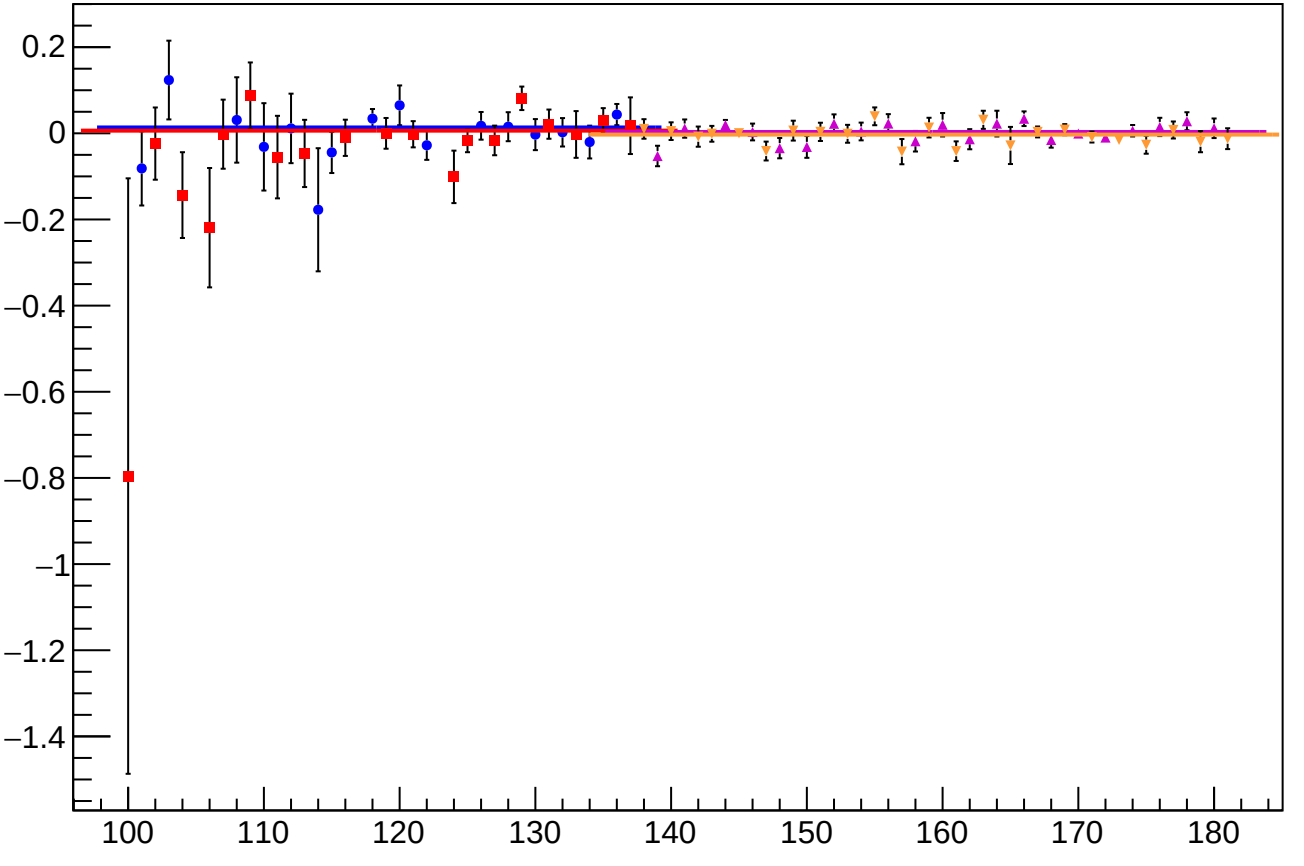
Right: 0.000+/-0.000 $\chi^2$/NDF: 5854929.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:4890518.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6151702.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11048115.7/78

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: -0.003+/-0.004 $\chi^2$/NDF:20.9/22

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: 0.003+/-0.004 $\chi^2$/NDF:23.5/20

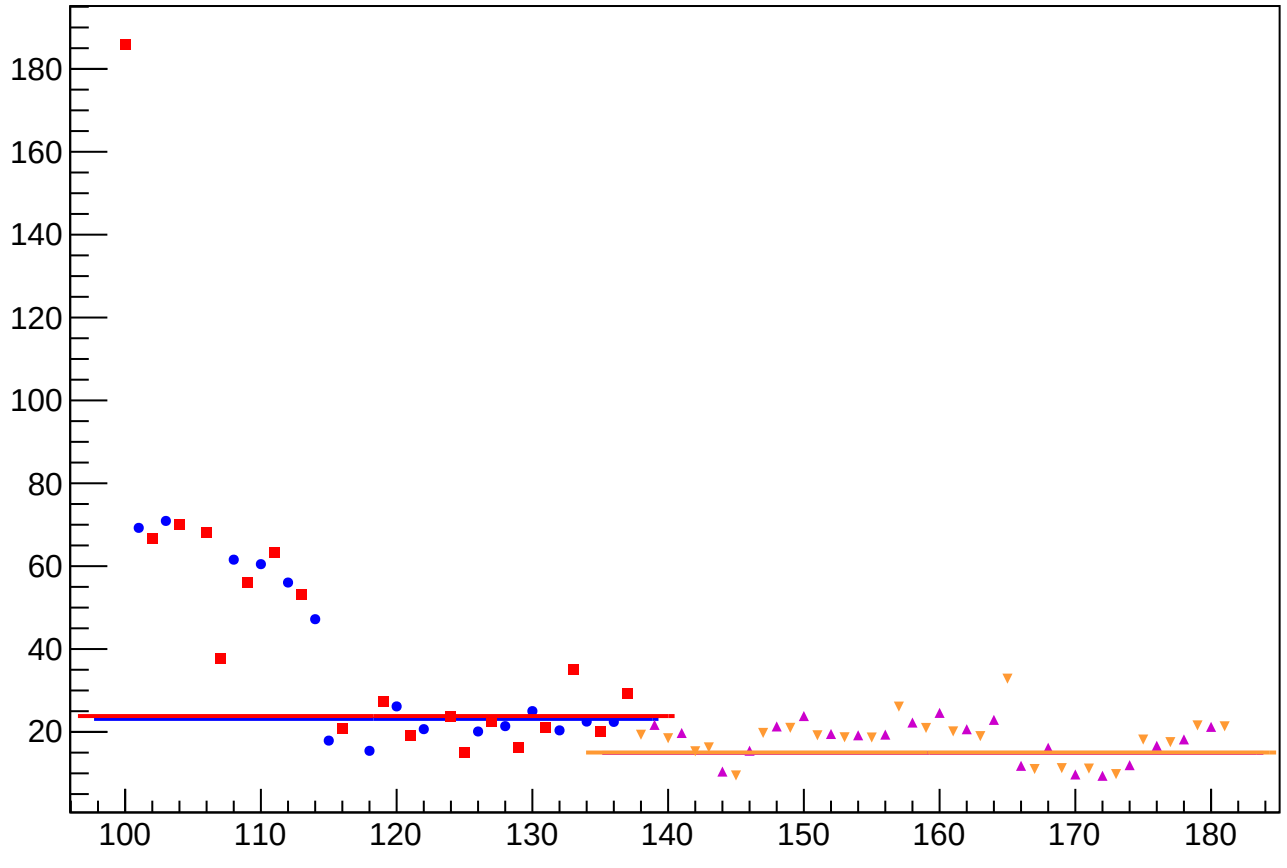
Left: -0.000+/-0.003 $\chi^2$/NDF: 45.6/43

Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.004+/-0.004 $\chi^2$/NDF:36.8/36

Out: -0.002+/-0.004 $\chi^2$/NDF:43.1/41

All: 0.001+/-0.003 $\chi^2$/NDF: 81.4/78




Right In: 23.145+/-0.007 $\chi^2$/NDF: 2406426.8/15

Left Out: 15.027+/-0.003 $\chi^2$/NDF:3317649.1/22

Right Out: 23.825+/-0.007 $\chi^2$/NDF: 2898916.7/18

Left In: 14.927+/-0.003 $\chi^2$/NDF:3285031.9/20

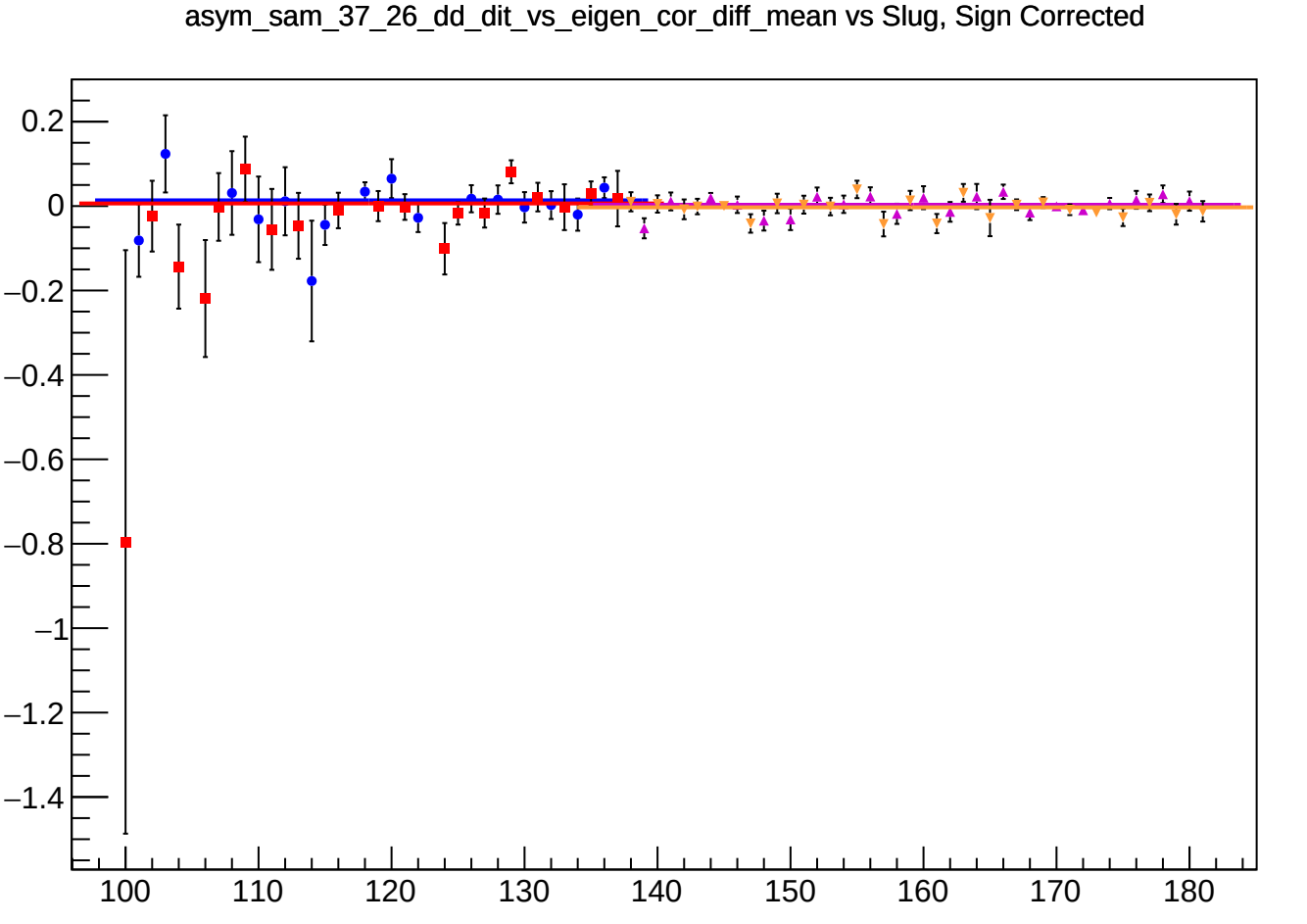
Left: 14.979+/-0.002 $\chi^2$/NDF: 6603361.9/43

Right: 23.477+/-0.005 $\chi^2$/NDF: 5310004.0/34

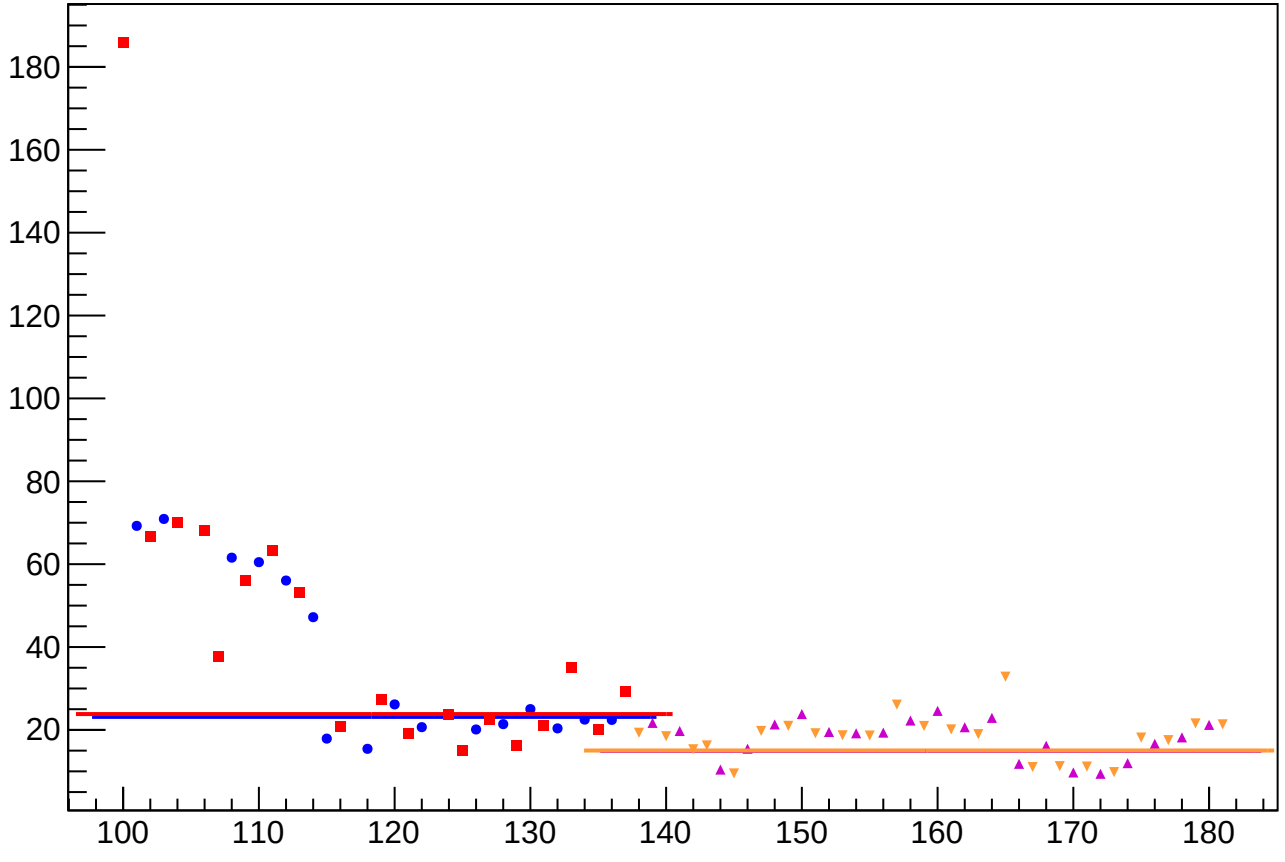
In: 16.044+/-0.003 $\chi^2$/NDF:6895380.9/36

Out: 16.111+/-0.002 $\chi^2$/NDF:7555797.4/41

All: 16.078+/-0.002 $\chi^2$/NDF: 14451527.7/78


asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
100
110
120
130
140
150
160
170
180
Right In: 0.014+/-0.010 χ²/NDF: 12.3/15
Left Out: -0.003+/-0.004 χ²/NDF:20.9/22
Right Out: 0.006+/-0.010 χ²/NDF: 21.5/18
Left In: 0.003+/-0.004 χ²/NDF:23.5/20
Left: -0.000+/-0.003 χ²/NDF: 45.6/43
Right: 0.010+/-0.007 χ²/NDF: 34.1/34
In: 0.004+/-0.004 χ²/NDF:36.8/36
Out: -0.002+/-0.004 χ²/NDF:43.1/41
All: 0.001+/-0.003 χ²/NDF: 81.4/78

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.145+/-0.007 $\chi^2$/NDF: 2406426.8/15

Left Out: 15.027+/-0.003 $\chi^2$/NDF:3317649.1/22

Right Out: 23.825+/-0.007 $\chi^2$/NDF: 2898916.7/18

Left In: 14.927+/-0.003 $\chi^2$/NDF:3285031.9/20

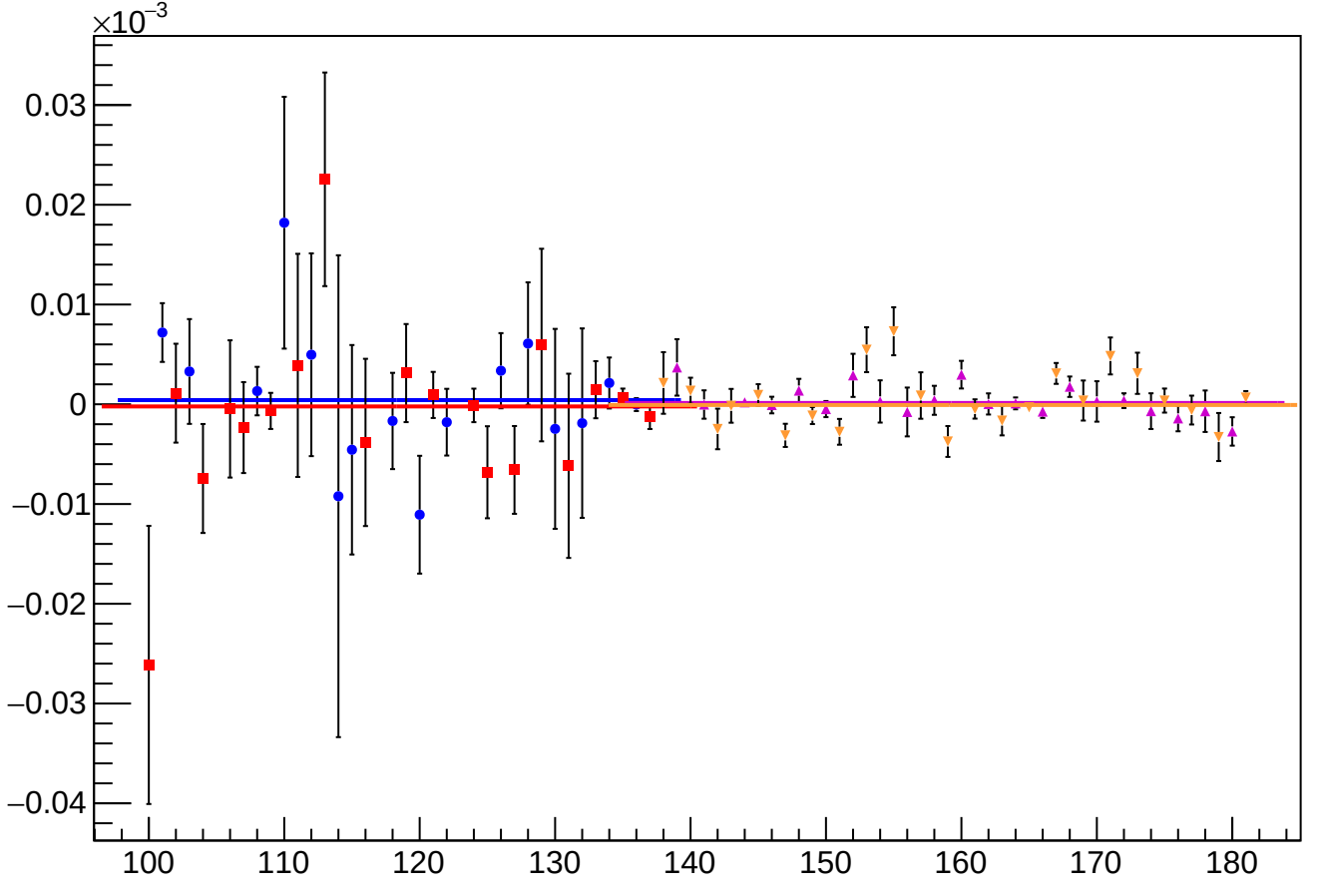
Left: 14.979+/-0.002 $\chi^2$/NDF: 6603361.9/43

Right: 23.477+/-0.005 $\chi^2$/NDF: 5310004.0/34

In: 16.044+/-0.003 $\chi^2$/NDF:6895380.9/36

Out: 16.111+/-0.002 $\chi^2$/NDF:7555797.4/41

All: 16.078+/-0.002 $\chi^2$/NDF: 14451527.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:61.8/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 82.0/43

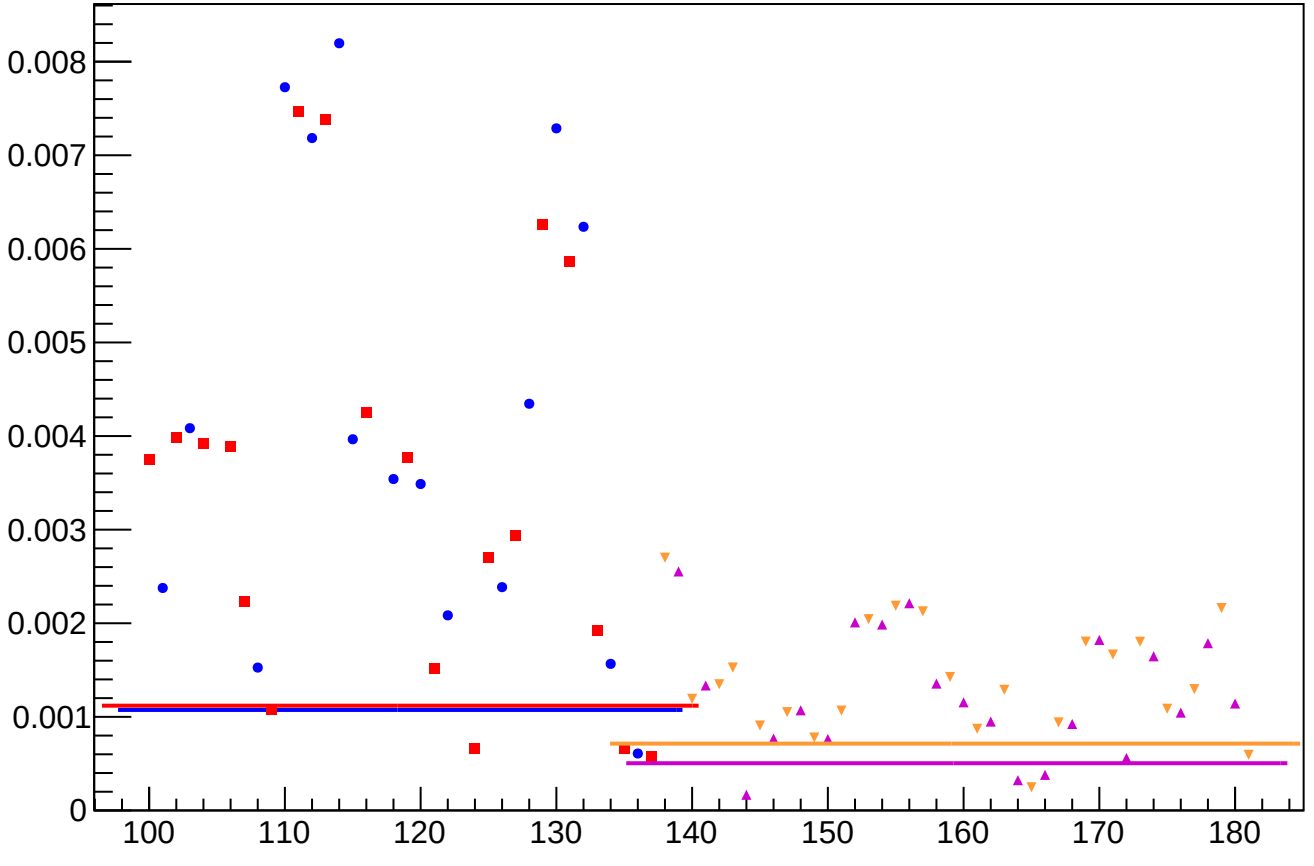
Right: 0.000+/-0.000 $\chi^2$/NDF: 33.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:35.2/36

Out: -0.000+/-0.000 $\chi^2$/NDF:79.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 115.8/78

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 7045313.7/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:12522385.6/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 6796343.2/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:14307089.6/20

Left: 0.001+/-0.000 $\chi^2$/NDF: 28001656.8/43

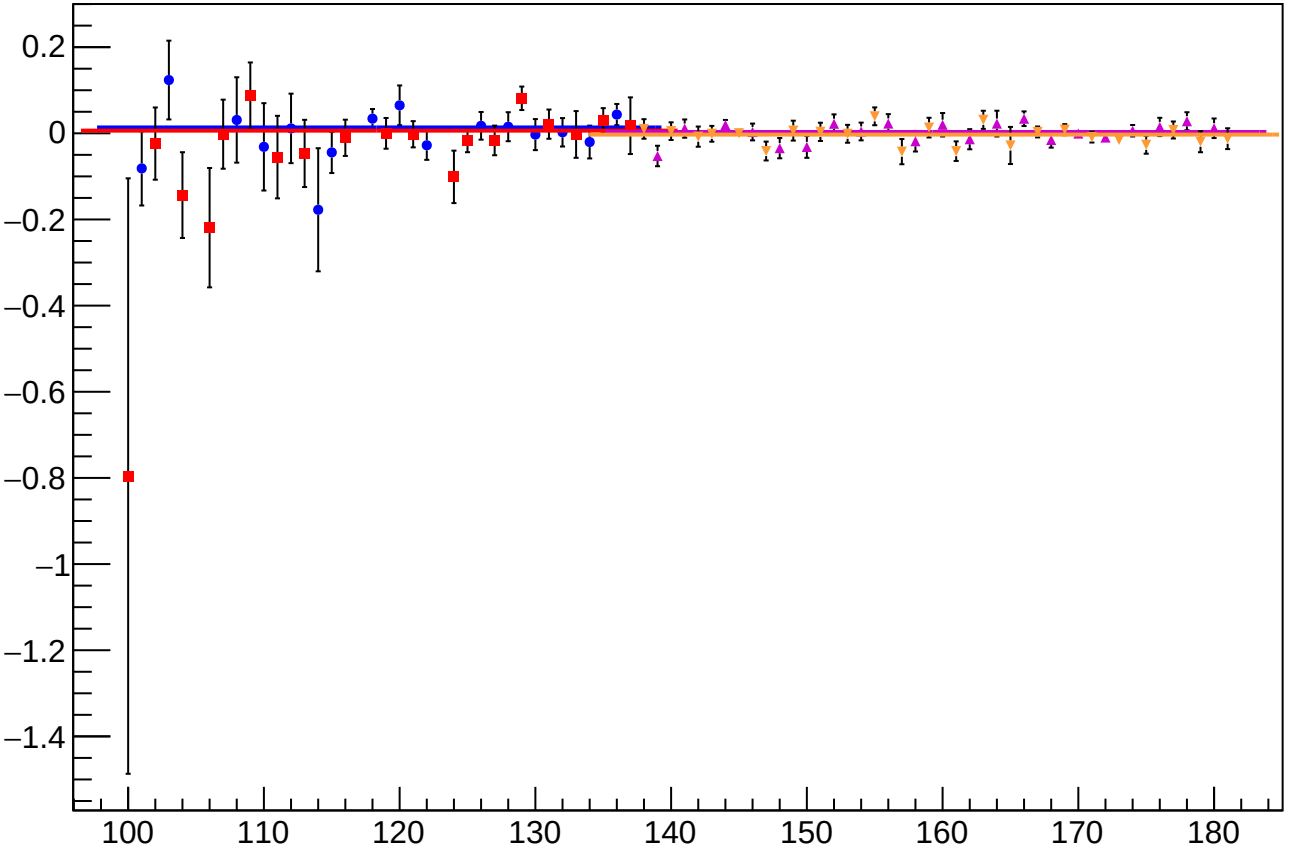
Right: 0.001+/-0.000 $\chi^2$/NDF: 13848160.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:23225010.6/36

Out: 0.001+/-0.000 $\chi^2$/NDF:20213103.9/41

All: 0.001+/-0.000 $\chi^2$/NDF: 44720413.9/78

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: -0.003+/-0.004 $\chi^2$/NDF:20.9/22

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: 0.003+/-0.004 $\chi^2$/NDF:23.5/20

Left: -0.000+/-0.003 $\chi^2$/NDF: 45.6/43

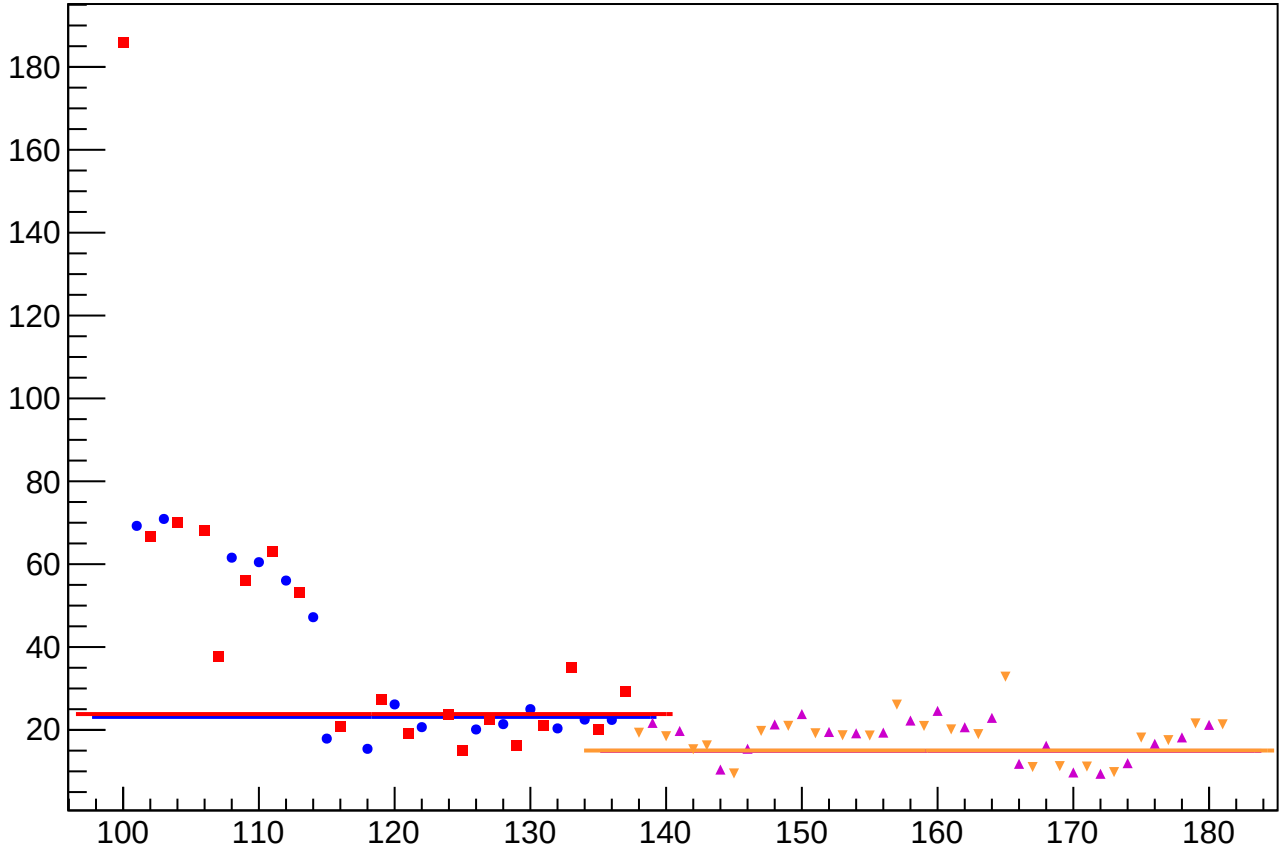
Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.004+/-0.004 $\chi^2$/NDF:36.8/36

Out: -0.002+/-0.004 $\chi^2$/NDF:43.1/41

All: 0.001+/-0.003 $\chi^2$/NDF: 81.4/78

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.144+/-0.007 $\chi^2$/NDF: 2406451.1/15

Left Out: 15.027+/-0.003 $\chi^2$/NDF:3317756.0/22

Right Out: 23.824+/-0.007 $\chi^2$/NDF: 2898863.9/18

Left In: 14.927+/-0.003 $\chi^2$/NDF:3285072.5/20

Left: 14.979+/-0.002 $\chi^2$/NDF: 6603508.8/43

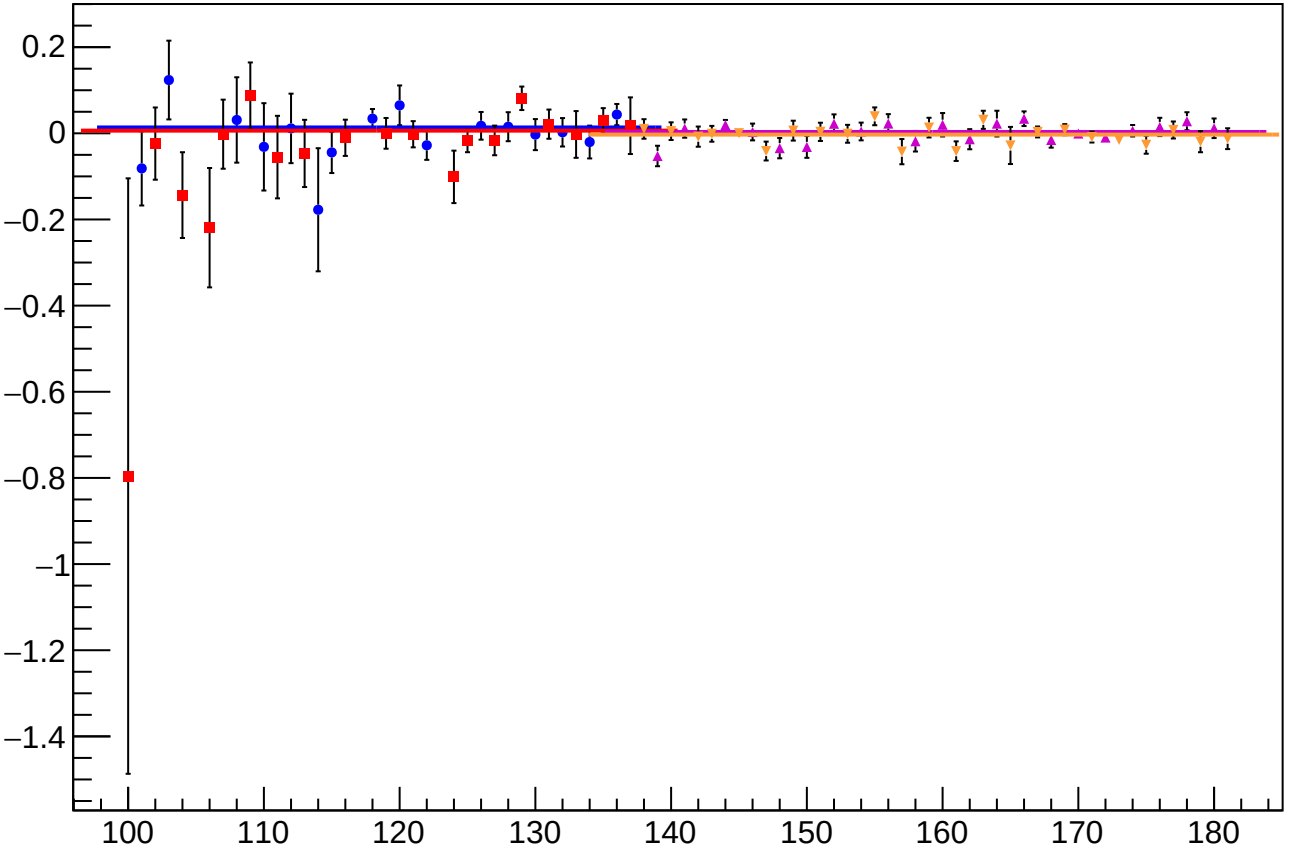
Right: 23.476+/-0.005 $\chi^2$/NDF: 5309985.6/34

In: 16.044+/-0.003 $\chi^2$/NDF:6895147.2/36

Out: 16.111+/-0.002 $\chi^2$/NDF:7555718.0/41

All: 16.078+/-0.002 $\chi^2$/NDF: 14451214.7/78

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: -0.003+/-0.004 $\chi^2$/NDF:20.9/22

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: 0.003+/-0.004 $\chi^2$/NDF:23.5/20

Left: -0.000+/-0.003 $\chi^2$/NDF: 45.6/43

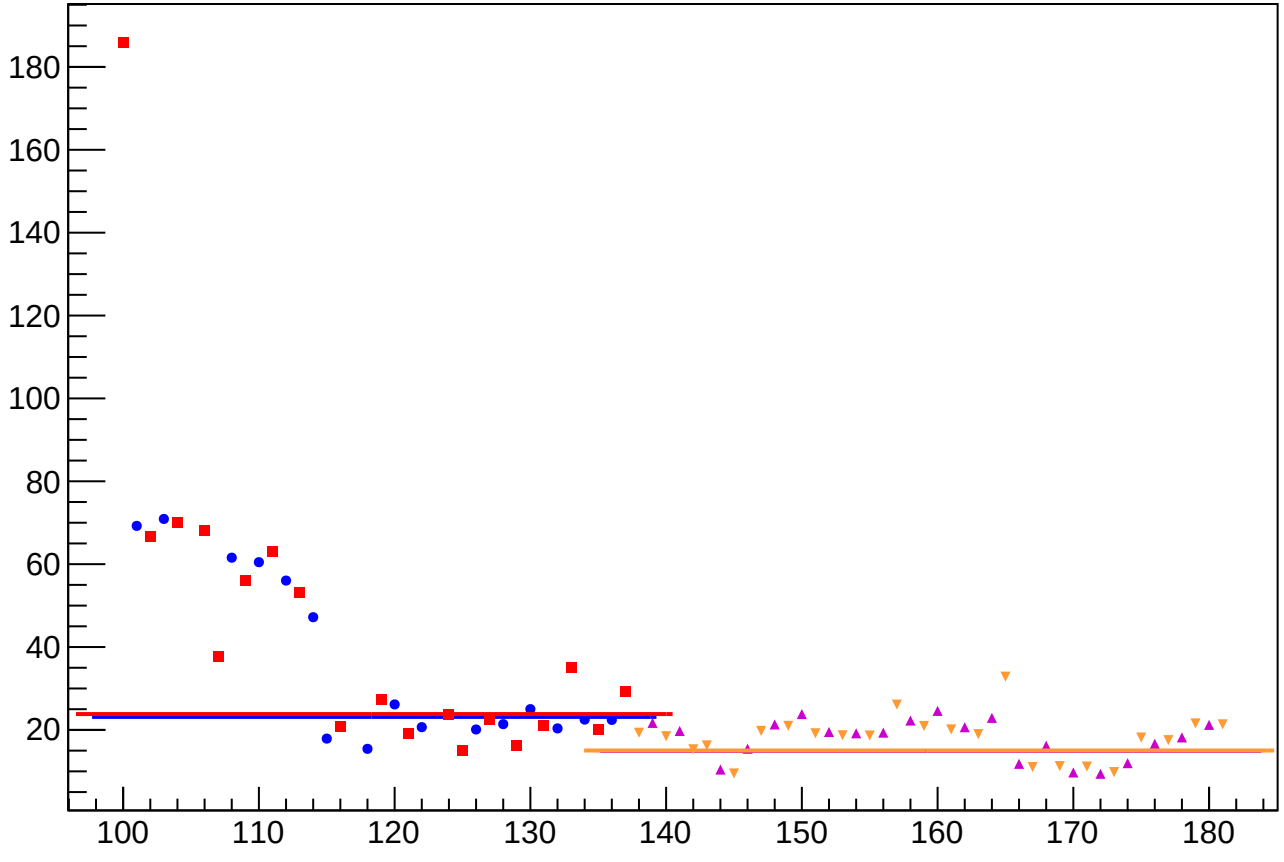
Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.004+/-0.004 $\chi^2$/NDF:36.8/36

Out: -0.002+/-0.004 $\chi^2$/NDF:43.1/41

All: 0.001+/-0.003 $\chi^2$/NDF: 81.4/78

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 23.144+/-0.007 $\chi^2$/NDF: 2406451.1/15

Left Out: 15.027+/-0.003 $\chi^2$/NDF:3317756.0/22

Right Out: 23.824+/-0.007 $\chi^2$/NDF: 2898863.9/18

Left In: 14.927+/-0.003 $\chi^2$/NDF:3285072.5/20

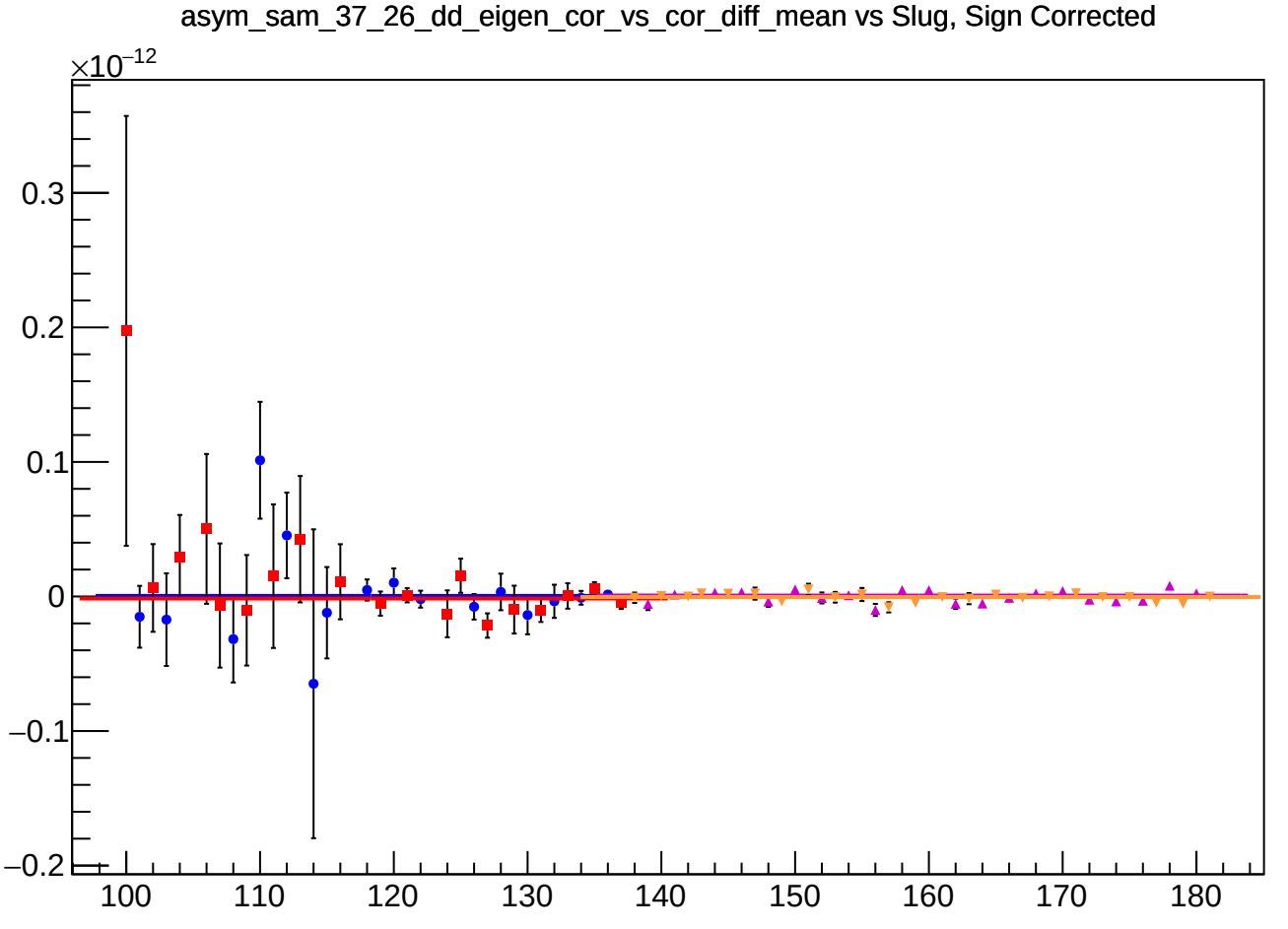
Left: 14.979+/-0.002 $\chi^2$/NDF: 6603508.8/43

Right: 23.476+/-0.005 $\chi^2$/NDF: 5309985.6/34

In: 16.044+/-0.003 $\chi^2$/NDF:6895147.2/36

Out: 16.111+/-0.002 $\chi^2$/NDF:7555718.0/41

All: 16.078+/-0.002 $\chi^2$/NDF: 14451214.7/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:19.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:38.9/20

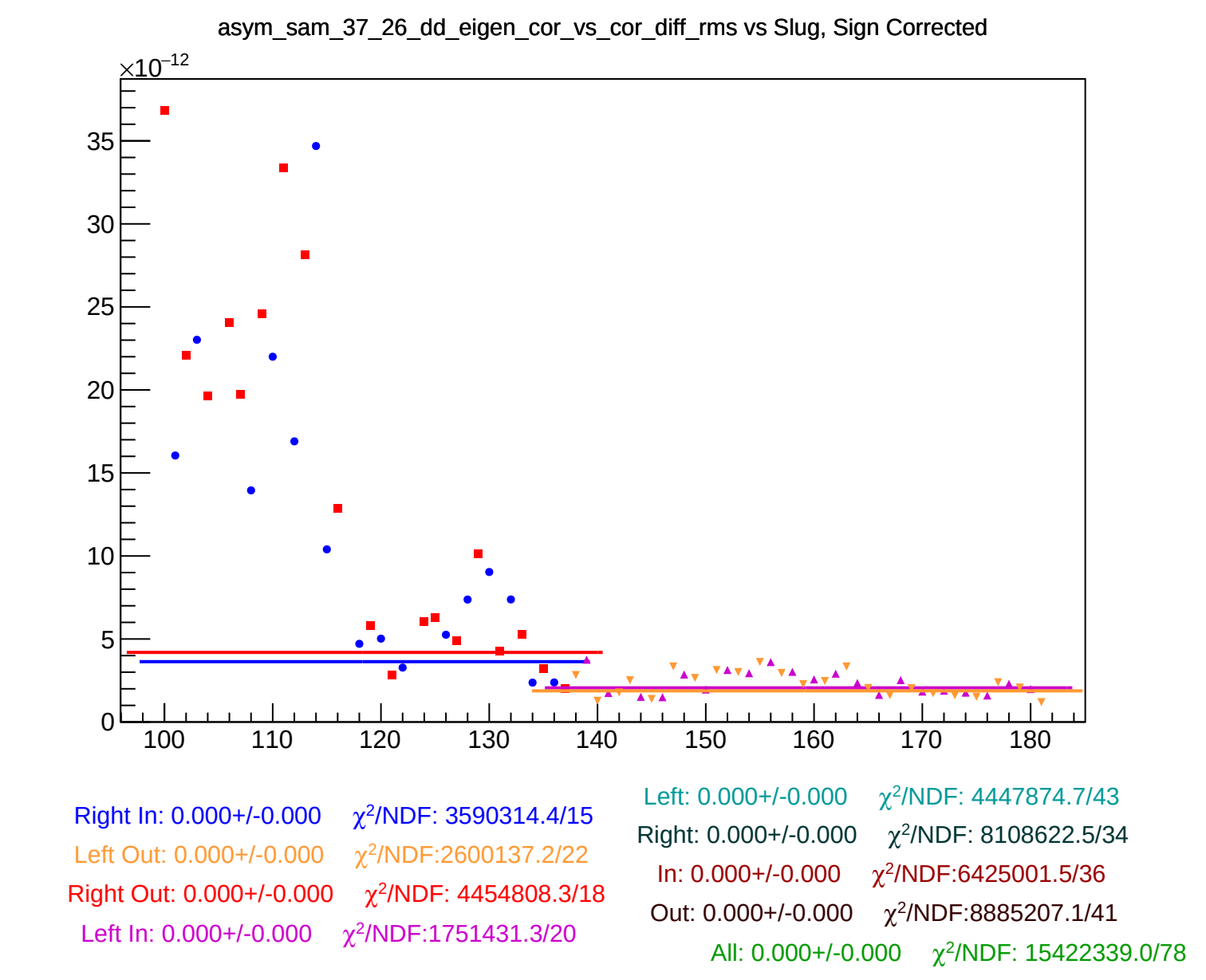
Left: 0.000+/-0.000 $\chi^2$/NDF: 60.4/43

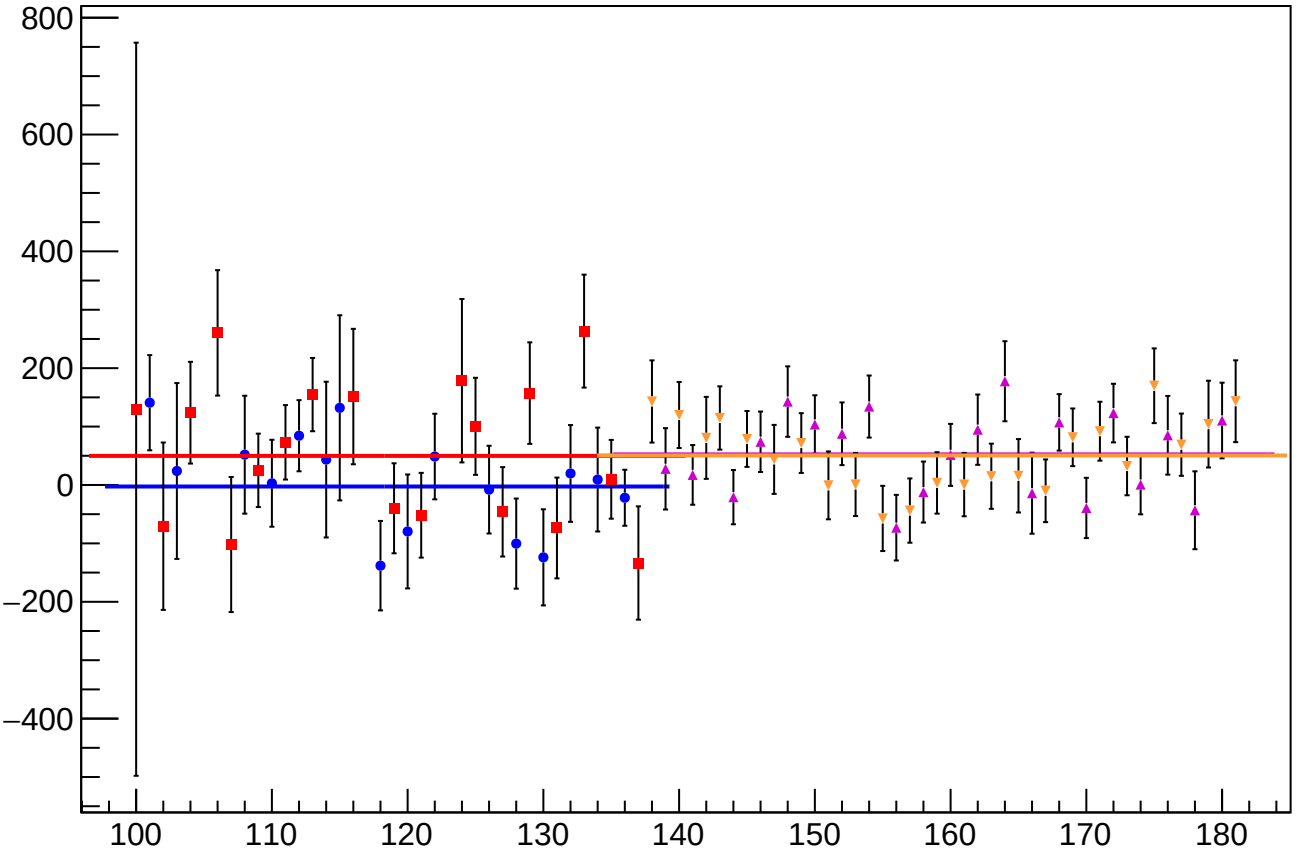
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:51.9/36

Out: -0.000+/-0.000 $\chi^2$/NDF:35.5/41

All: 0.000+/-0.000 $\chi^2$/NDF: 89.3/78


asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
35
30
25
20
15
10
5
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 3590314.4/15
Left Out: 0.000+/-0.000 χ²/NDF:2600137.2/22
Right Out: 0.000+/-0.000 χ²/NDF: 4454808.3/18
Left In: 0.000+/-0.000 χ²/NDF:1751431.3/20
Left: 0.000+/-0.000 χ²/NDF: 4447874.7/43
Right: 0.000+/-0.000 χ²/NDF: 8108622.5/34
In: 0.000+/-0.000 χ²/NDF:6425001.5/36
Out: 0.000+/-0.000 χ²/NDF:8885207.1/41
All: 0.000+/-0.000 χ²/NDF: 15422339.0/78




Right In: -2.614+/-19.994 $\chi^2$/NDF: 14.6/15

Left Out: 50.536+/-11.736 $\chi^2$/NDF:24.3/22

Right Out: 49.810+/-19.621 $\chi^2$/NDF: 29.4/18

Left In: 52.346+/-12.120 $\chi^2$/NDF:31.2/20

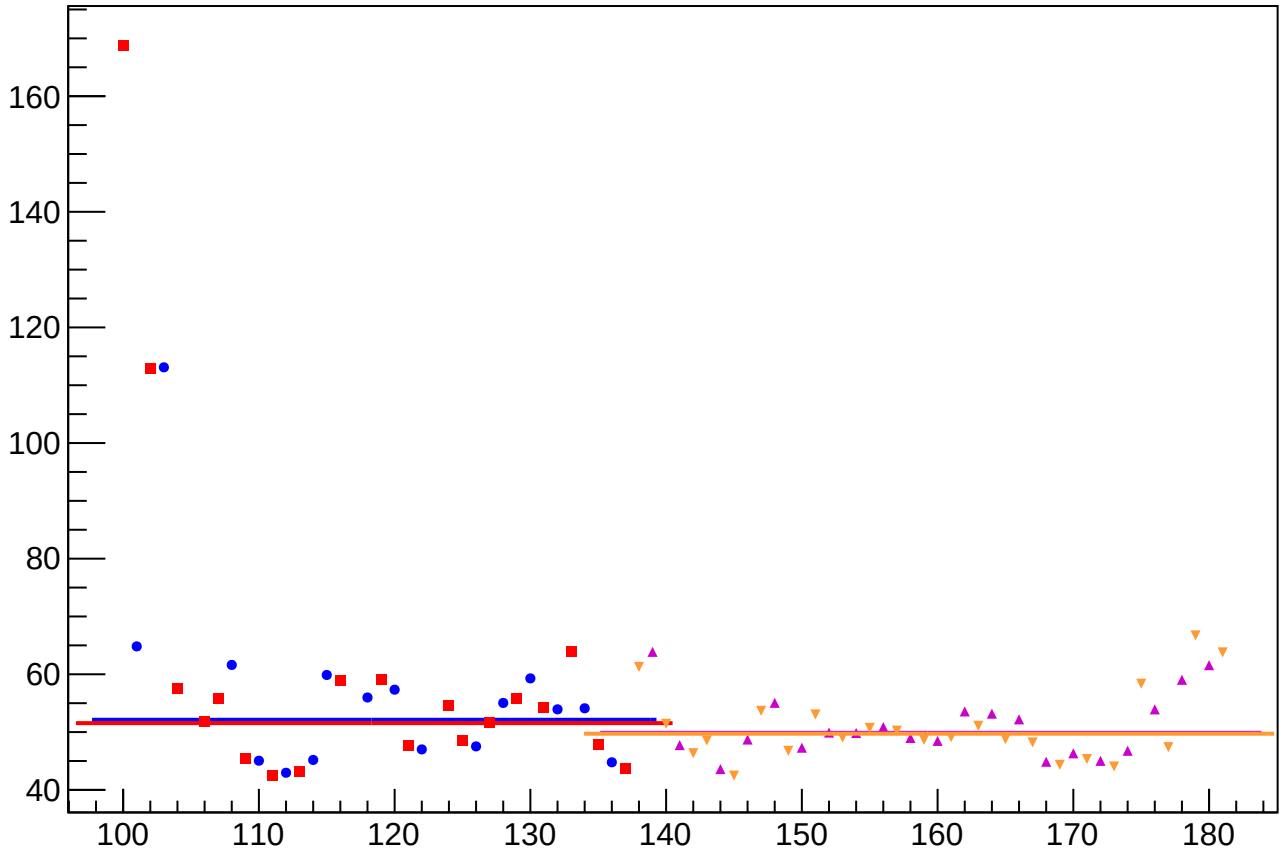
Left: 51.412+/-8.431 $\chi^2$/NDF: 55.5/43

Right: 24.091+/-14.004 $\chi^2$/NDF: 47.4/34

In: 37.578+/-10.364 $\chi^2$/NDF:51.3/36

Out: 50.345+/-10.072 $\chi^2$/NDF:53.7/41

All: 44.144+/-7.223 $\chi^2$/NDF: 105.8/78




Right In: 52.128+/-0.014 $\chi^2$/NDF: 562918.0/15

Left Out: 49.720+/-0.008 $\chi^2$/NDF:425411.1/22

Right Out: 51.550+/-0.014 $\chi^2$/NDF: 639564.9/18

Left In: 49.875+/-0.009 $\chi^2$/NDF:326323.0/20

Left: 49.795+/-0.006 $\chi^2$/NDF: 751903.3/43

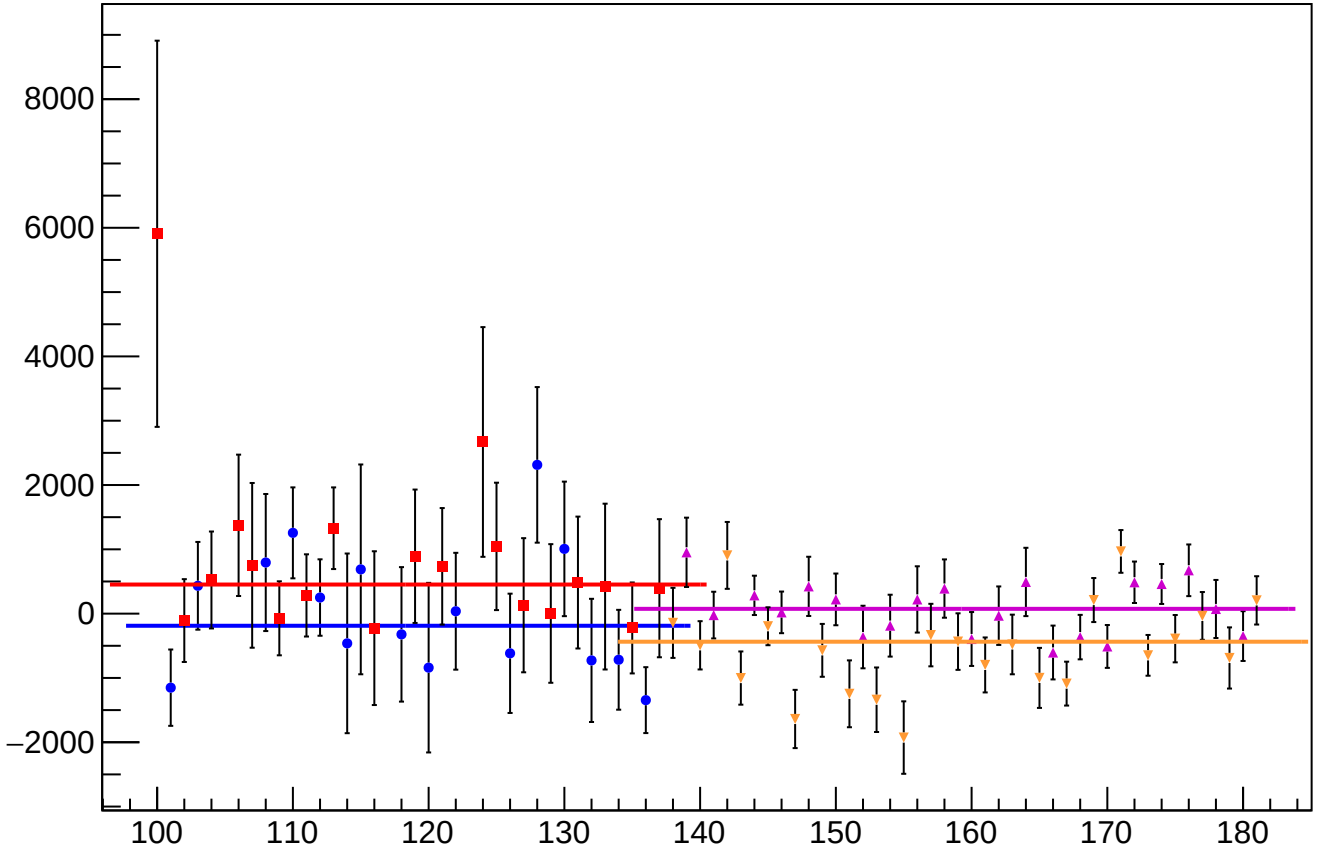
Right: 51.834+/-0.010 $\chi^2$/NDF: 1203336.1/34

In: 50.481+/-0.007 $\chi^2$/NDF:907817.8/36

Out: 50.202+/-0.007 $\chi^2$/NDF:1077788.1/41

All: 50.337+/-0.005 $\chi^2$/NDF: 1986348.4/78

asym_sam_1357_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -188.563+/-205.811 $\chi^2$/NDF: 21.4/15

Left Out: -436.515+/-84.658 $\chi^2$/NDF:61.5/22

Right Out: 452.540+/-203.918 $\chi^2$/NDF: 11.3/18

Left In: 74.571+/-86.299 $\chi^2$/NDF:21.5/20

Left: -185.877+/-60.434 $\chi^2$/NDF: 100.8/43

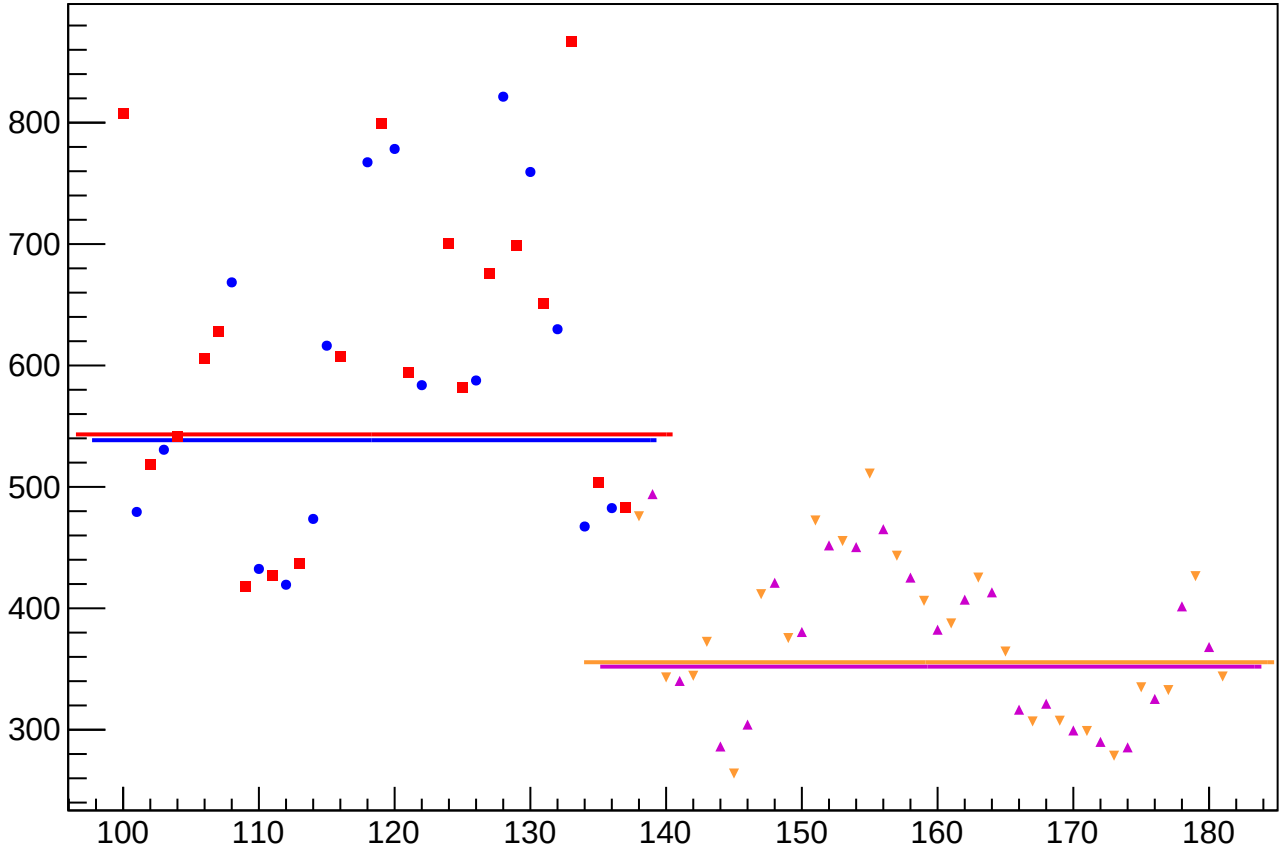
Right: 134.950+/-144.856 $\chi^2$/NDF: 37.6/34

In: 35.224+/-79.586 $\chi^2$/NDF:44.2/36

Out: -305.809+/-78.188 $\chi^2$/NDF:89.0/41

All: -138.314+/-55.775 $\chi^2$/NDF: 142.6/78

asym_sam_1357_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 538.468+/-0.146 $\chi^2$/NDF: 613995.2/15

Left Out: 355.600+/-0.060 $\chi^2$/NDF:1130336.5/22

Right Out: 543.242+/-0.144 $\chi^2$/NDF: 637115.5/18

Left In: 351.985+/-0.061 $\chi^2$/NDF:997345.6/20

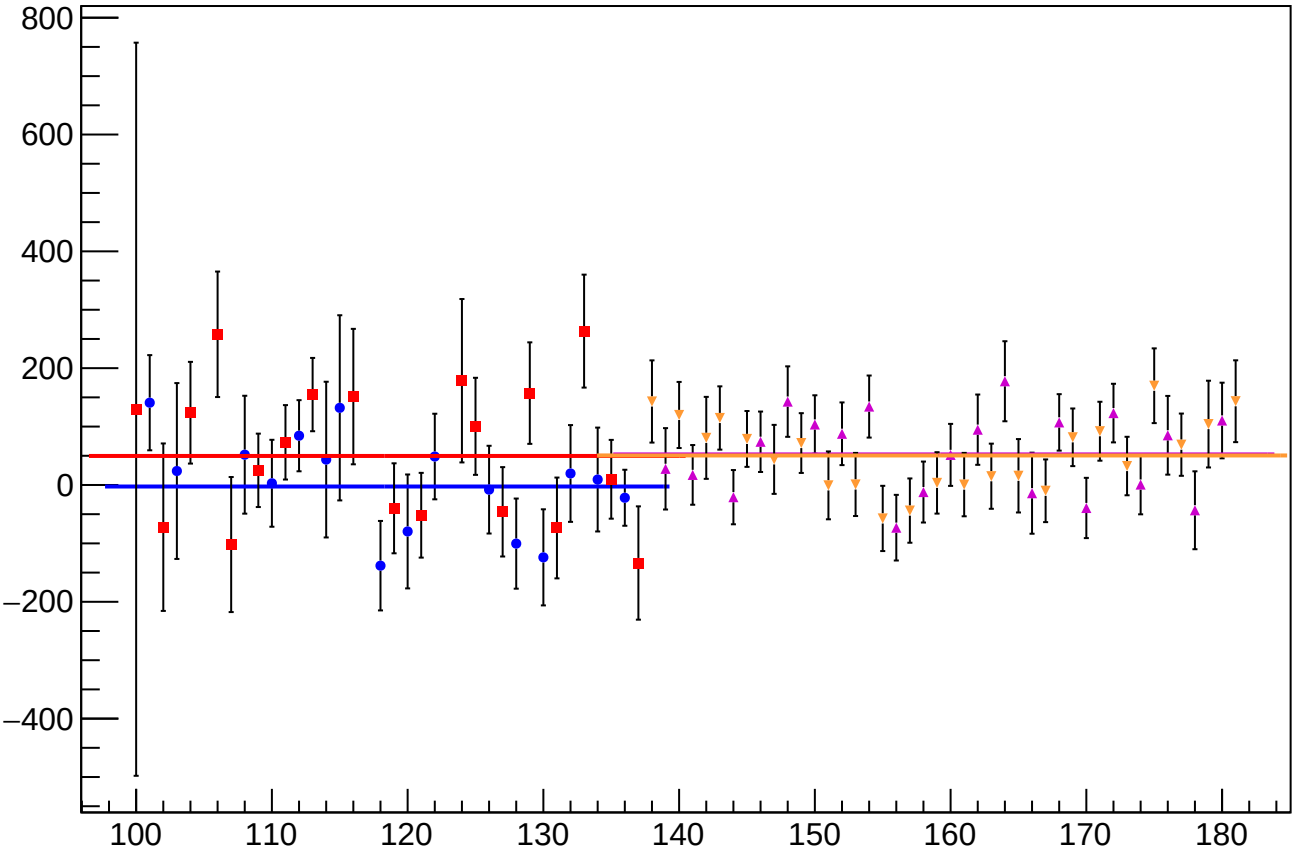
Left: 353.827+/-0.043 $\chi^2$/NDF: 2129470.3/43

Right: 540.877+/-0.102 $\chi^2$/NDF: 1251653.7/34

In: 379.870+/-0.056 $\chi^2$/NDF:3007804.3/36

Out: 383.186+/-0.055 $\chi^2$/NDF:3211965.4/41

All: 381.557+/-0.039 $\chi^2$/NDF: 6221536.6/78




Right In: -2.618+/-19.995 $\chi^2$/NDF: 14.6/15

Left Out: 50.538+/-11.736 $\chi^2$/NDF:24.3/22

Right Out: 49.694+/-19.622 $\chi^2$/NDF: 29.3/18

Left In: 52.345+/-12.120 $\chi^2$/NDF:31.2/20

Left: 51.413+/-8.431 $\chi^2$/NDF: 55.5/43

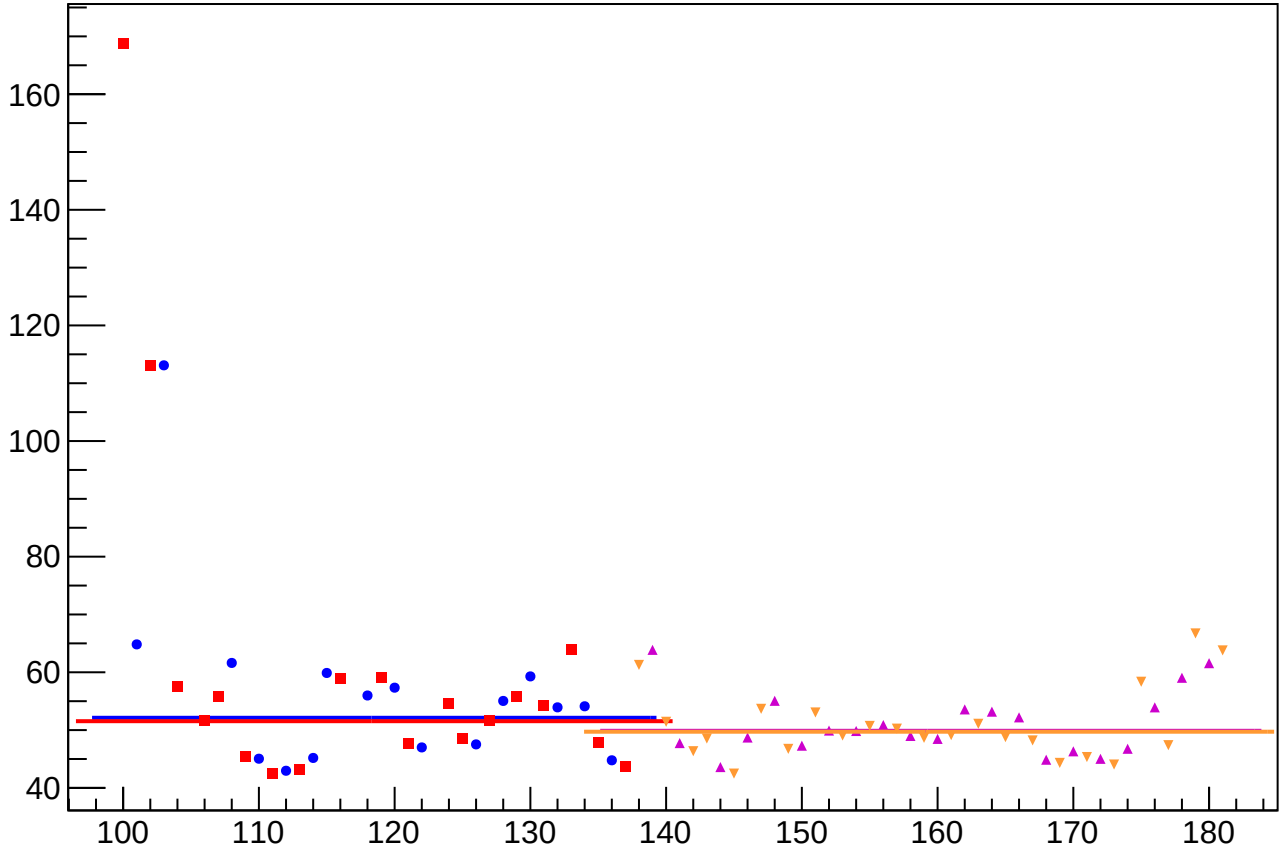
Right: 24.030+/-14.005 $\chi^2$/NDF: 47.4/34

In: 37.577+/-10.364 $\chi^2$/NDF:51.3/36

Out: 50.316+/-10.072 $\chi^2$/NDF:53.6/41

All: 44.128+/-7.223 $\chi^2$/NDF: 105.7/78

# cor_asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 52.128+/-0.014 $\chi^2$/NDF: 562920.3/15

Left Out: 49.720+/-0.008 $\chi^2$/NDF:425411.1/22

Right Out: 51.540+/-0.014 $\chi^2$/NDF: 639784.7/18

Left In: 49.875+/-0.009 $\chi^2$/NDF:326323.0/20

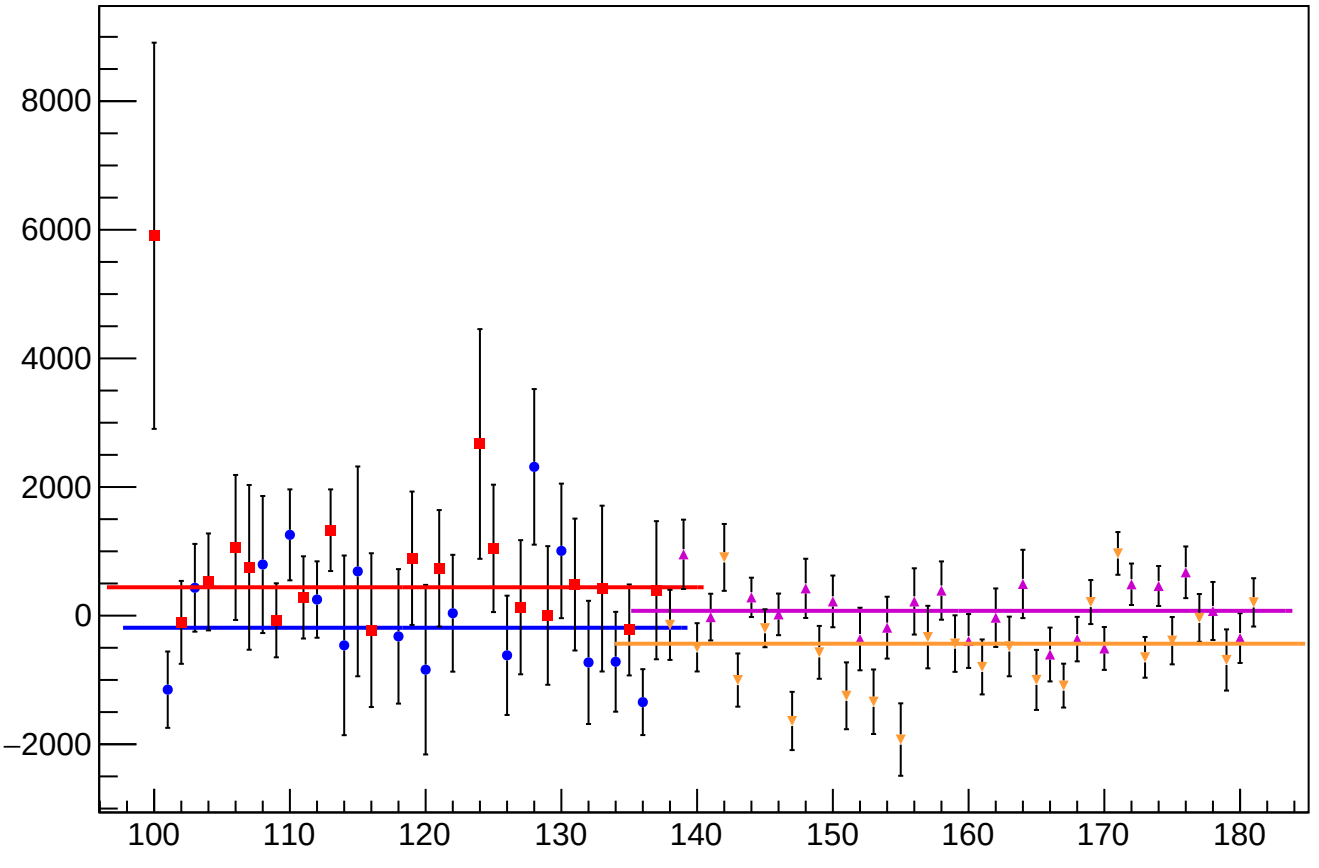
Left: 49.795+/-0.006 $\chi^2$/NDF: 751903.3/43

Right: 51.828+/-0.010 $\chi^2$/NDF: 1203588.8/34

In: 50.481+/-0.007 $\chi^2$/NDF:907820.1/36

Out: 50.199+/-0.007 $\chi^2$/NDF:1077863.5/41

All: 50.336+/-0.005 $\chi^2$/NDF: 1986440.8/78




Right In: -188.541+/-205.813 $\chi^2$/NDF: 21.4/15

Left Out: -436.512+/-84.658 $\chi^2$/NDF:61.5/22

Right Out: 441.171+/-204.111 $\chi^2$/NDF: 10.9/18

Left In: 74.571+/-86.299 $\chi^2$/NDF:21.5/20

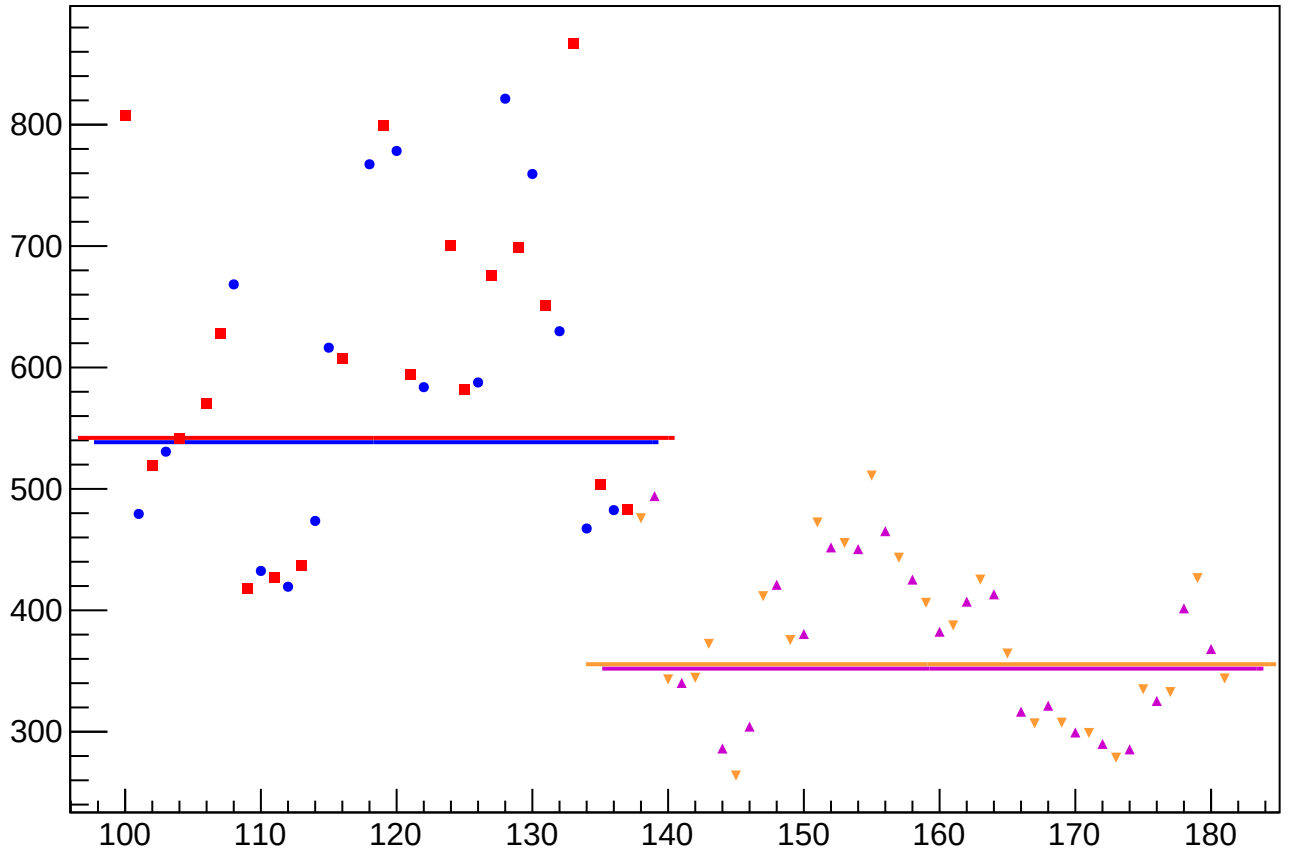
Left: -185.877+/-60.434 $\chi^2$/NDF: 100.8/43

Right: 128.930+/-144.926 $\chi^2$/NDF: 37.0/34

In: 35.228+/-79.586 $\chi^2$/NDF:44.2/36

Out: -307.687+/-78.198 $\chi^2$/NDF:88.1/41

All: -139.244+/-55.779 $\chi^2$/NDF: 141.8/78




Right In: 538.473+/-0.146 $\chi^2$/NDF: 613991.3/15

Left Out: 355.599+/-0.060 $\chi^2$/NDF:1130340.5/22

Right Out: 542.025+/-0.144 $\chi^2$/NDF: 631559.6/18

Left In: 351.985+/-0.061 $\chi^2$/NDF:997345.6/20

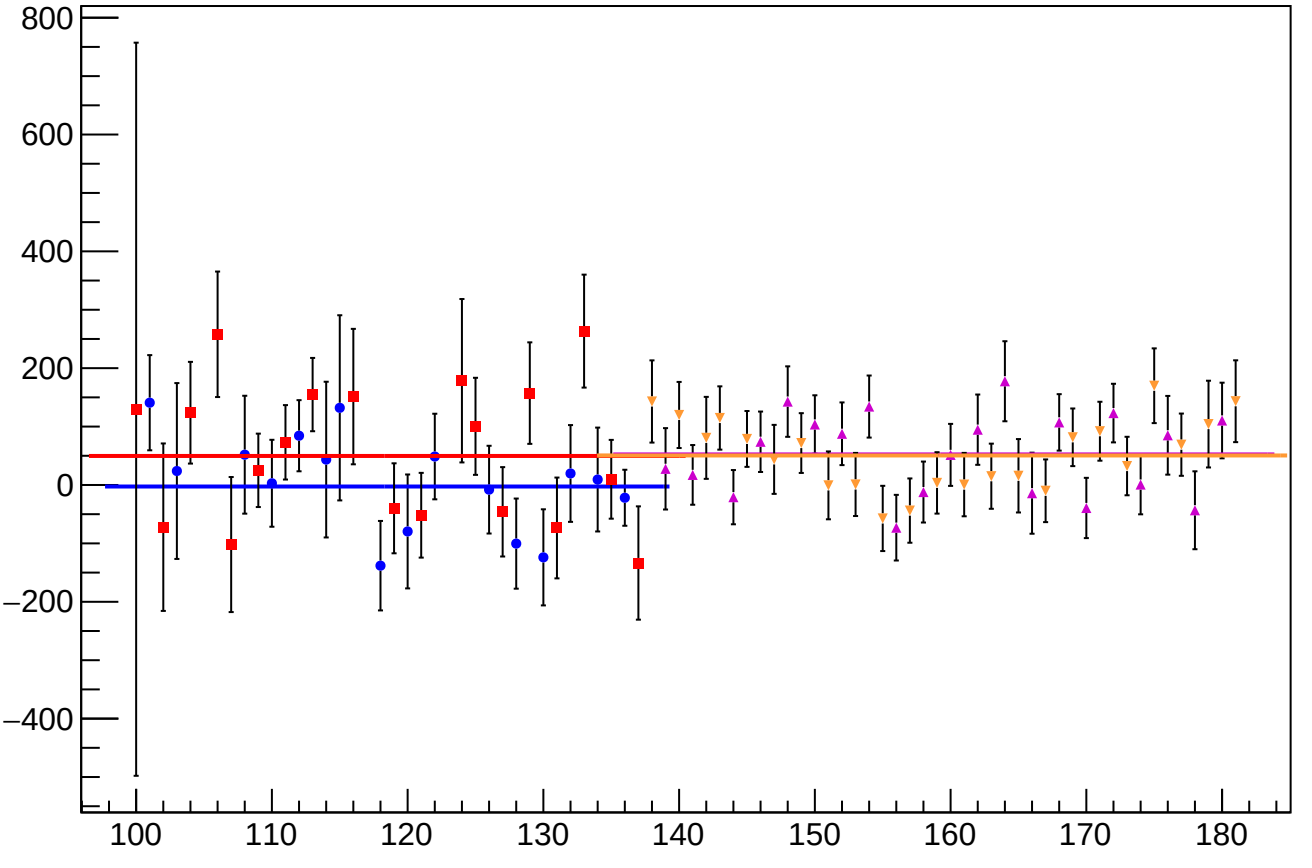
Left: 353.827+/-0.043 $\chi^2$/NDF: 2129474.1/43

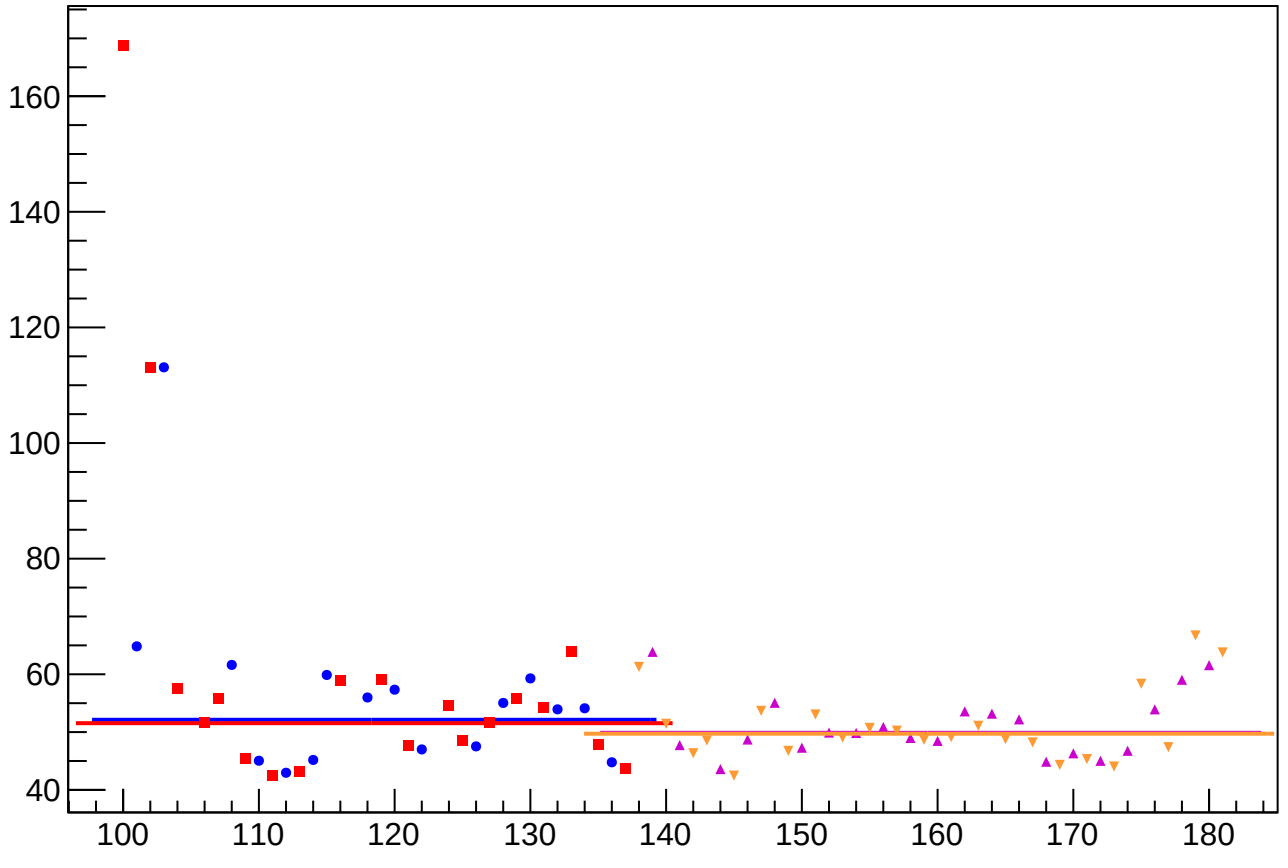
Right: 540.264+/-0.102 $\chi^2$/NDF: 1245851.3/34

In: 379.870+/-0.056 $\chi^2$/NDF:3007856.3/36

Out: 382.963+/-0.055 $\chi^2$/NDF:3185449.5/41

All: 381.444+/-0.039 $\chi^2$/NDF: 6194842.3/78


eigen_cor_asym_sam_1357_avg_mean vs Slug, Sign Corrected
800
600
400
200
0
−200
−400
100
110
120
130
140
150
160
170
180
Right In: -2.618+/-19.995 χ²/NDF: 14.6/15
Left Out: 50.538+/-11.736 χ²/NDF:24.3/22
Right Out: 49.694+/-19.622 χ²/NDF: 29.3/18
Left In: 52.345+/-12.120 χ²/NDF:31.2/20
Left: 51.413+/-8.431 χ²/NDF: 55.5/43
Right: 24.030+/-14.005 χ²/NDF: 47.4/34
In: 37.577+/-10.364 χ²/NDF:51.3/36
Out: 50.316+/-10.072 χ²/NDF:53.6/41
All: 44.128+/-7.223 χ²/NDF: 105.7/78




Right In: 52.128+/-0.014 $\chi^2$/NDF: 562920.3/15

Left Out: 49.720+/-0.008 $\chi^2$/NDF:425411.1/22

Right Out: 51.540+/-0.014 $\chi^2$/NDF: 639784.7/18

Left In: 49.875+/-0.009 $\chi^2$/NDF:326323.0/20

Left: 49.795+/-0.006 $\chi^2$/NDF: 751903.3/43

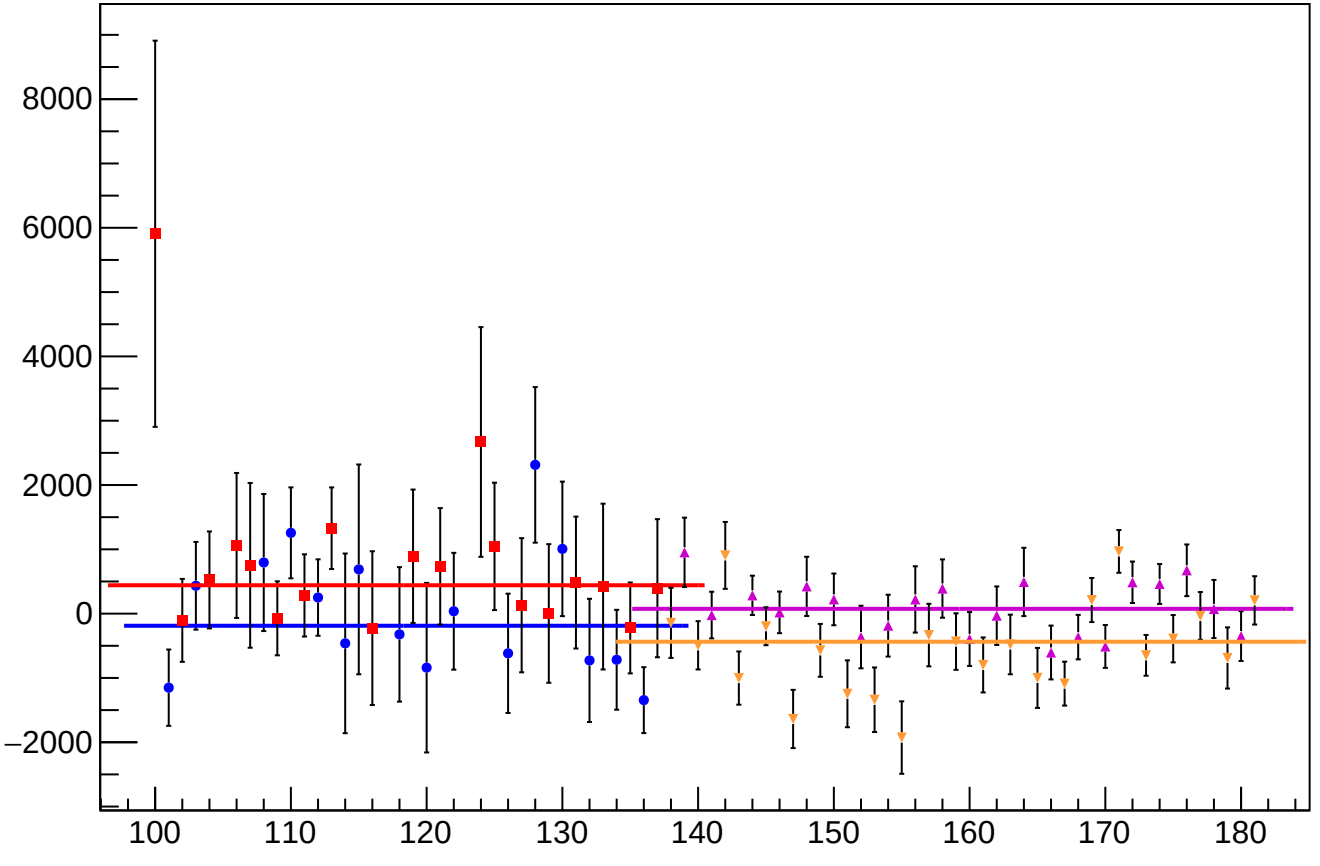
Right: 51.828+/-0.010 $\chi^2$/NDF: 1203588.8/34

In: 50.481+/-0.007 $\chi^2$/NDF:907820.1/36

Out: 50.199+/-0.007 $\chi^2$/NDF:1077863.5/41

All: 50.336+/-0.005 $\chi^2$/NDF: 1986440.8/78

asym_sam_1357_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -188.541+/-205.813 $\chi^2$/NDF: 21.4/15

Left Out: -436.512+/-84.658 $\chi^2$/NDF:61.5/22

Right Out: 441.171+/-204.111 $\chi^2$/NDF: 10.9/18

Left In: 74.571+/-86.299 $\chi^2$/NDF:21.5/20

Left: -185.877+/-60.434 $\chi^2$/NDF: 100.8/43

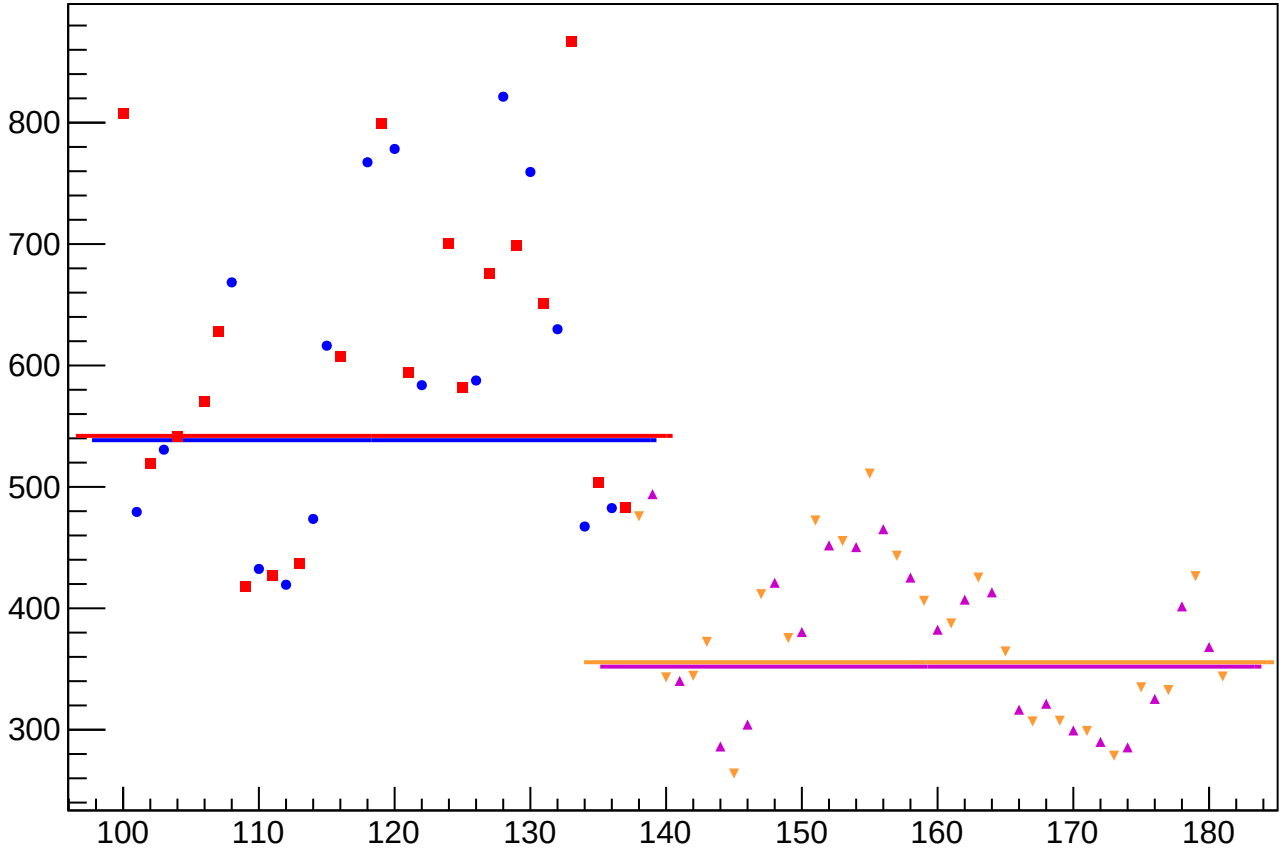
Right: 128.930+/-144.926 $\chi^2$/NDF: 37.0/34

In: 35.228+/-79.586 $\chi^2$/NDF:44.2/36

Out: -307.687+/-78.198 $\chi^2$/NDF:88.1/41

All: -139.244+/-55.779 $\chi^2$/NDF: 141.8/78

asym_sam_1357_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 538.473+/-0.146 $\chi^2$/NDF: 613991.3/15

Left Out: 355.599+/-0.060 $\chi^2$/NDF:1130340.5/22

Right Out: 542.025+/-0.144 $\chi^2$/NDF: 631559.6/18

Left In: 351.985+/-0.061 $\chi^2$/NDF:997345.6/20

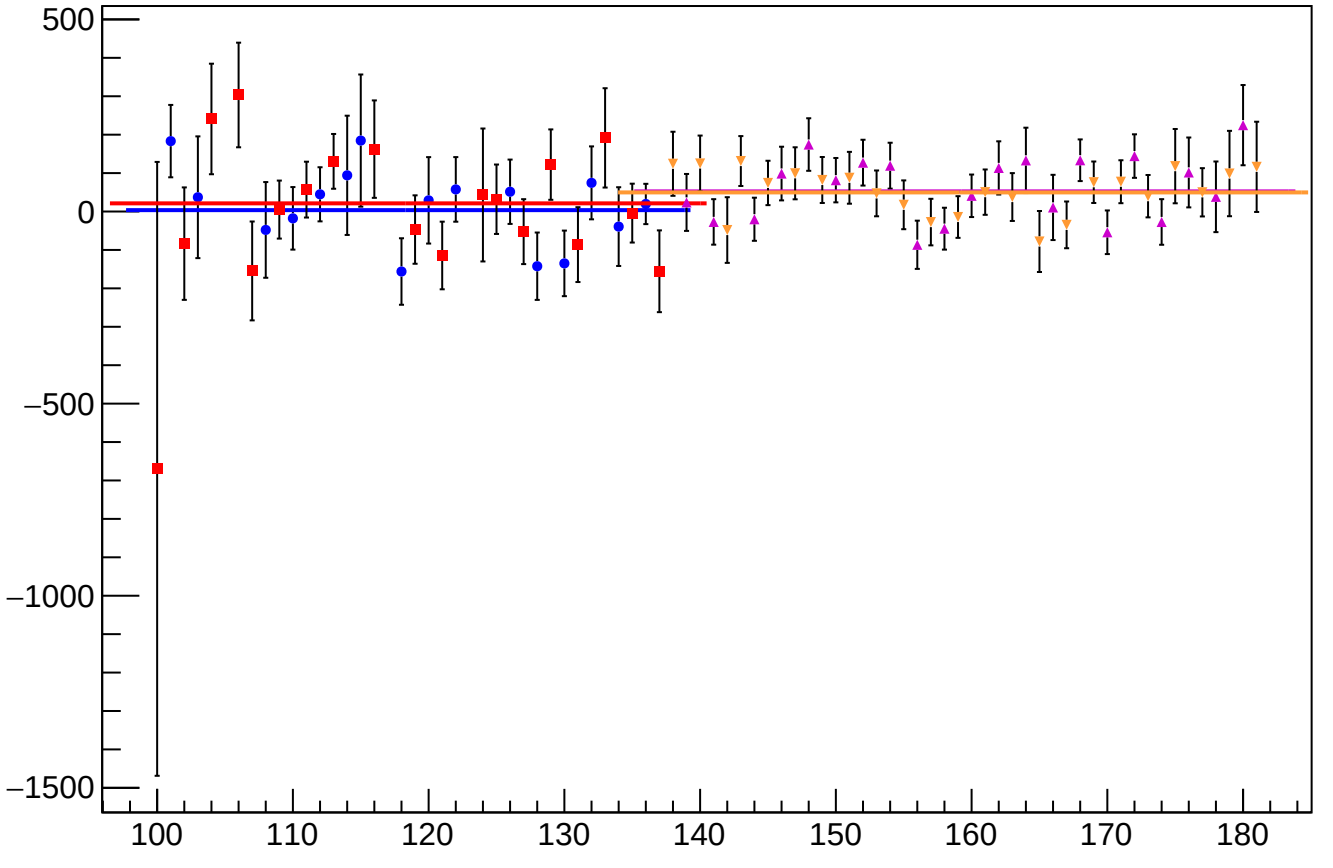
Left: 353.827+/-0.043 $\chi^2$/NDF: 2129474.1/43

Right: 540.264+/-0.102 $\chi^2$/NDF: 1245851.3/34

In: 379.870+/-0.056 $\chi^2$/NDF:3007856.3/36

Out: 382.963+/-0.055 $\chi^2$/NDF:3185449.5/41

All: 381.444+/-0.039 $\chi^2$/NDF: 6194842.3/78




Right In: 3.597+/-22.480 $\chi^2$/NDF: 16.1/15

Left Out: 49.738+/-13.676 $\chi^2$/NDF:15.5/22

Right Out: 21.253+/-22.769 $\chi^2$/NDF: 24.4/18

Left In: 52.449+/-14.079 $\chi^2$/NDF:33.6/20

Left: 51.054+/-9.810 $\chi^2$/NDF: 49.1/43

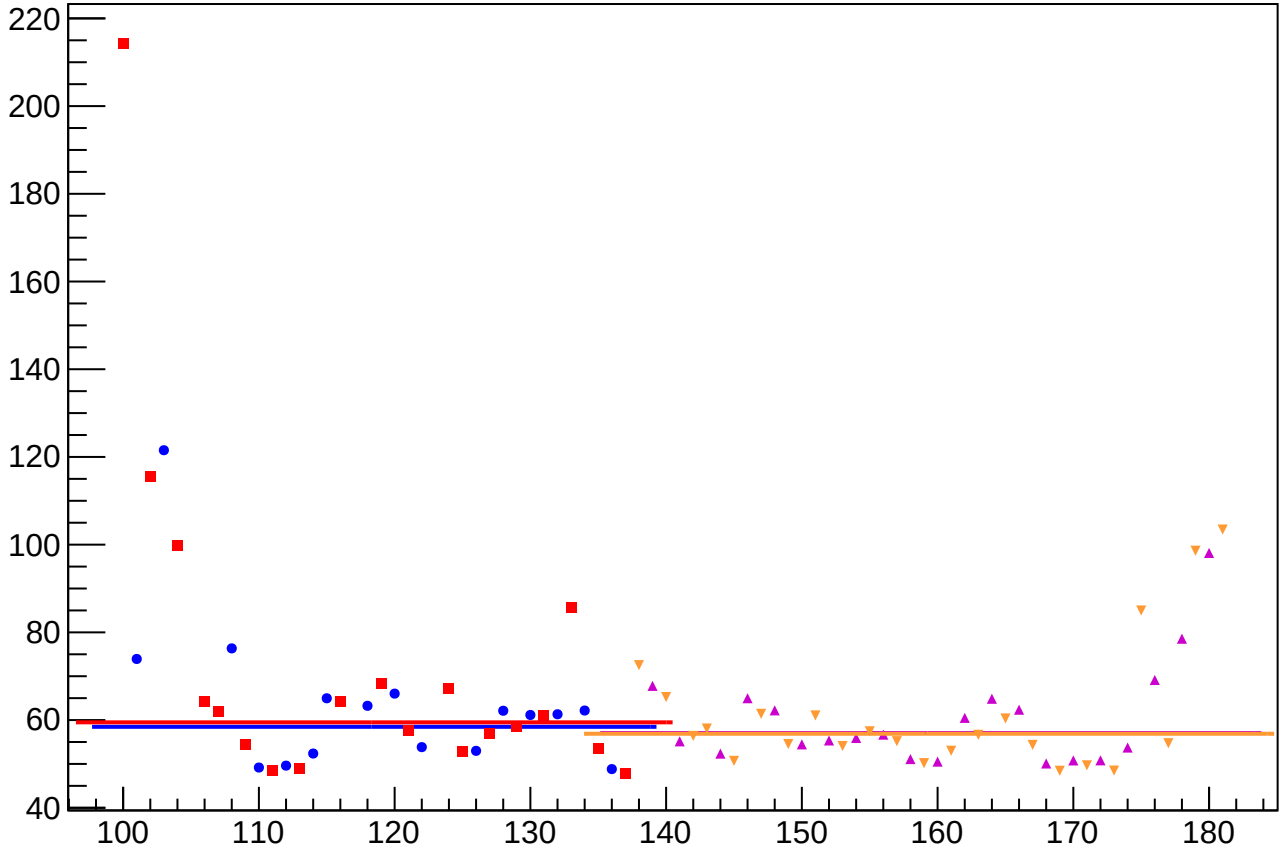
Right: 12.313+/-15.997 $\chi^2$/NDF: 40.9/34

In: 38.686+/-11.932 $\chi^2$/NDF:53.1/36

Out: 42.186+/-11.724 $\chi^2$/NDF:41.0/41

All: 40.467+/-8.363 $\chi^2$/NDF: 94.2/78

# dit_asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 58.465+/-0.016 $\chi^2$/NDF: 582984.2/15

Left Out: 56.883+/-0.010 $\chi^2$/NDF:1089484.6/22

Right Out: 59.484+/-0.016 $\chi^2$/NDF: 784880.1/18

Left In: 57.050+/-0.010 $\chi^2$/NDF:724680.8/20

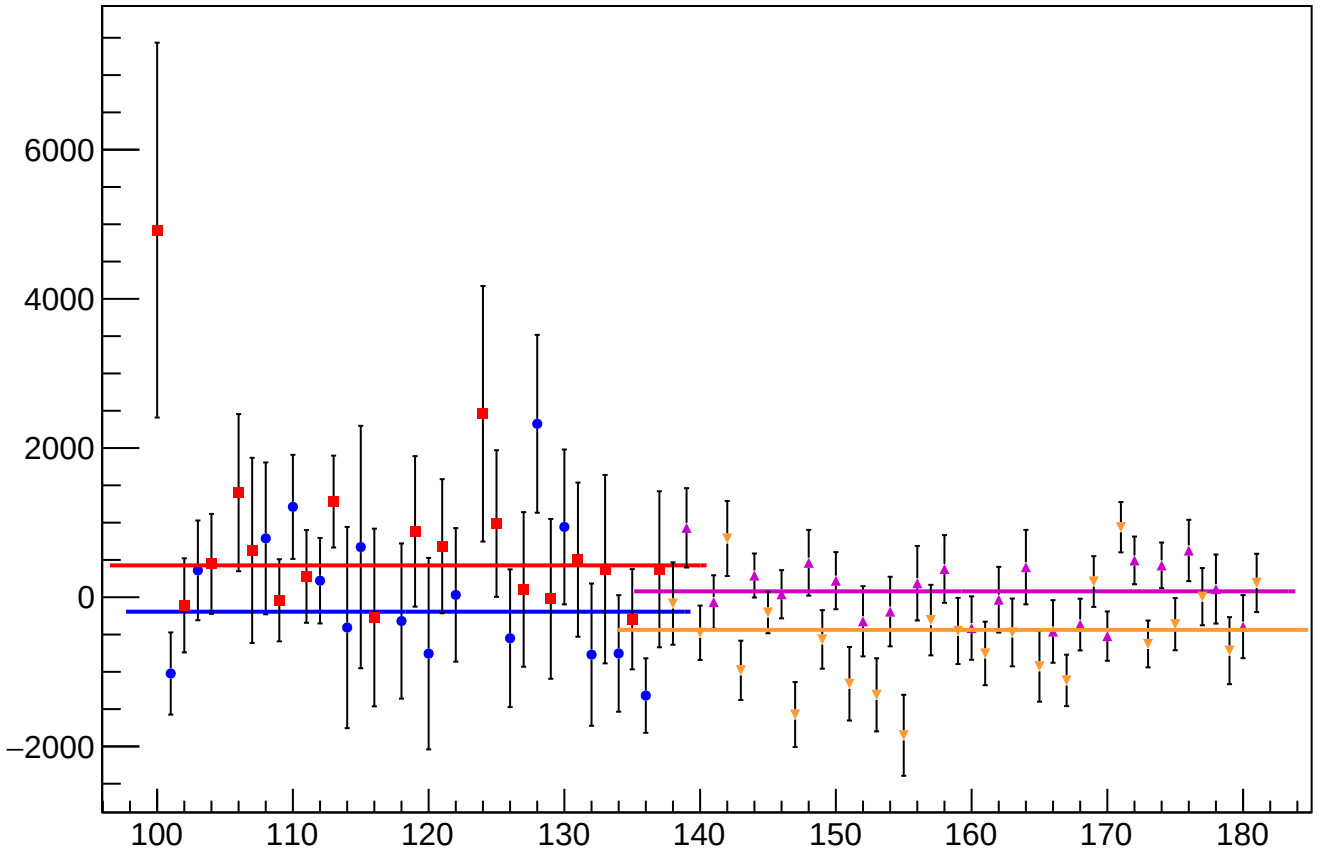
Left: 56.964+/-0.007 $\chi^2$/NDF: 1814310.2/43

Right: 58.968+/-0.011 $\chi^2$/NDF: 1369891.4/34

In: 57.449+/-0.008 $\chi^2$/NDF:1313361.5/36

Out: 57.572+/-0.008 $\chi^2$/NDF:1893548.6/41

All: 57.512+/-0.006 $\chi^2$/NDF: 3207019.7/78




Right In: -193.899+/-200.604 $\chi^2$/NDF: 20.8/15

Left Out: -437.768+/-83.239 $\chi^2$/NDF:58.5/22

Right Out: 426.977+/-197.005 $\chi^2$/NDF: 11.3/18

Left In: 79.022+/-85.488 $\chi^2$/NDF:20.1/20

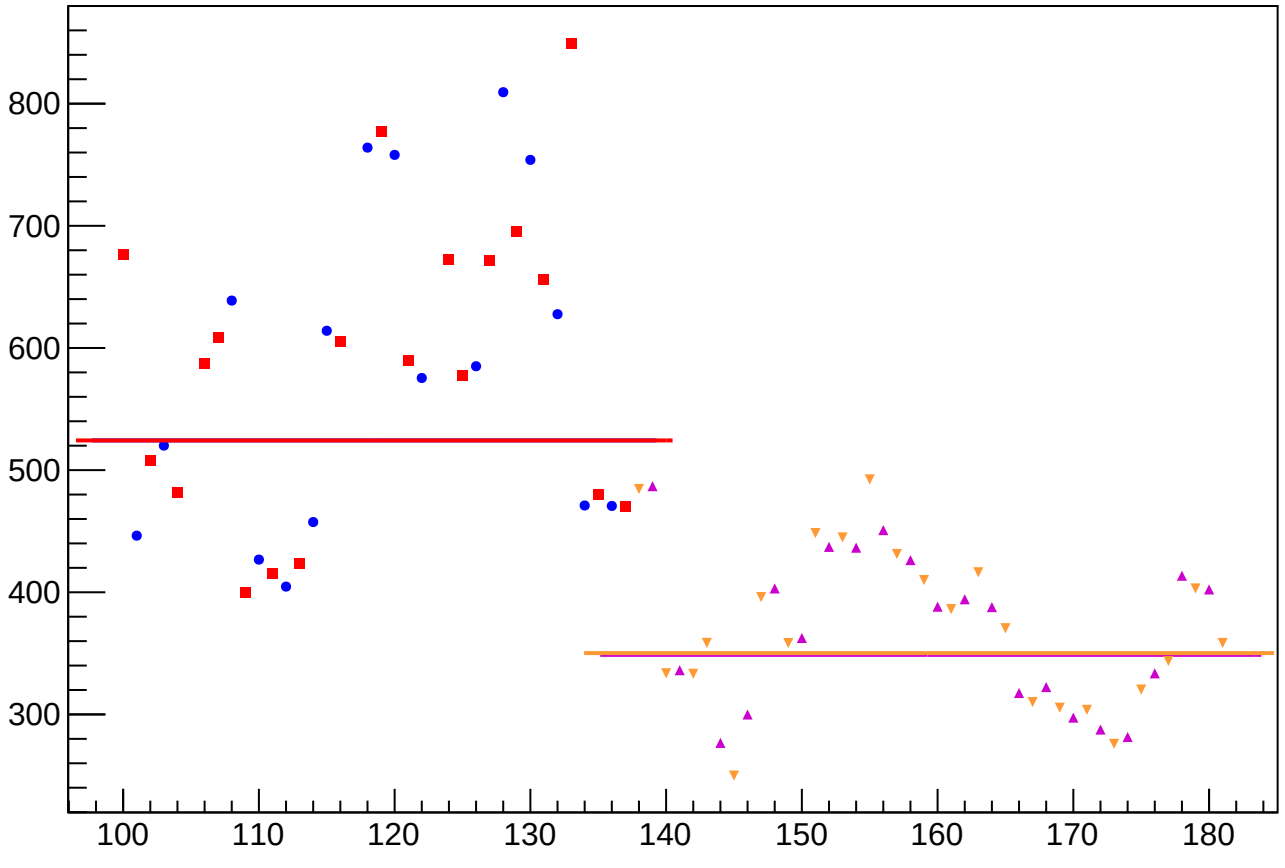
Left: -186.258+/-59.638 $\chi^2$/NDF: 97.3/43

Right: 122.158+/-140.559 $\chi^2$/NDF: 37.0/34

In: 37.076+/-78.644 $\chi^2$/NDF:42.5/36

Out: -306.774+/-76.676 $\chi^2$/NDF:86.1/41

All: -139.206+/-54.901 $\chi^2$/NDF: 138.4/78




Right In: 524.326+/-0.142 $\chi^2$/NDF: 658488.5/15

Left Out: 350.205+/-0.059 $\chi^2$/NDF:1111236.5/22

Right Out: 524.306+/-0.139 $\chi^2$/NDF: 686061.2/18

Left In: 348.755+/-0.060 $\chi^2$/NDF:984489.7/20

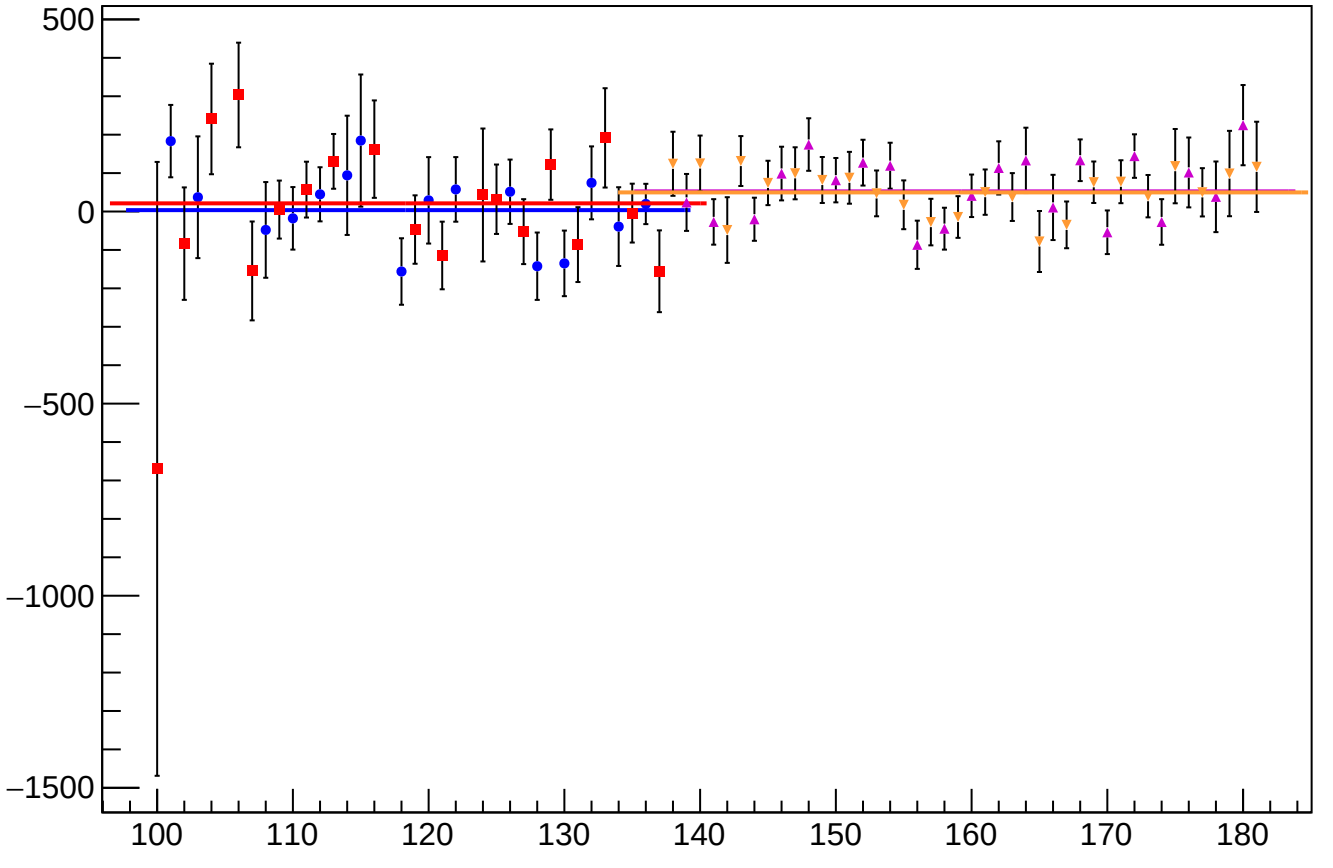
Left: 349.499+/-0.042 $\chi^2$/NDF: 2096021.4/43

Right: 524.316+/-0.099 $\chi^2$/NDF: 1344549.7/34

In: 375.740+/-0.056 $\chi^2$/NDF:2939516.2/36

Out: 376.578+/-0.054 $\chi^2$/NDF:3122683.3/41

All: 376.169+/-0.039 $\chi^2$/NDF: 6062316.0/78




Right In: 3.597+/-22.480 $\chi^2$/NDF: 16.1/15

Left Out: 49.739+/-13.676 $\chi^2$/NDF:15.5/22

Right Out: 21.251+/-22.769 $\chi^2$/NDF: 24.4/18

Left In: 52.449+/-14.079 $\chi^2$/NDF:33.6/20

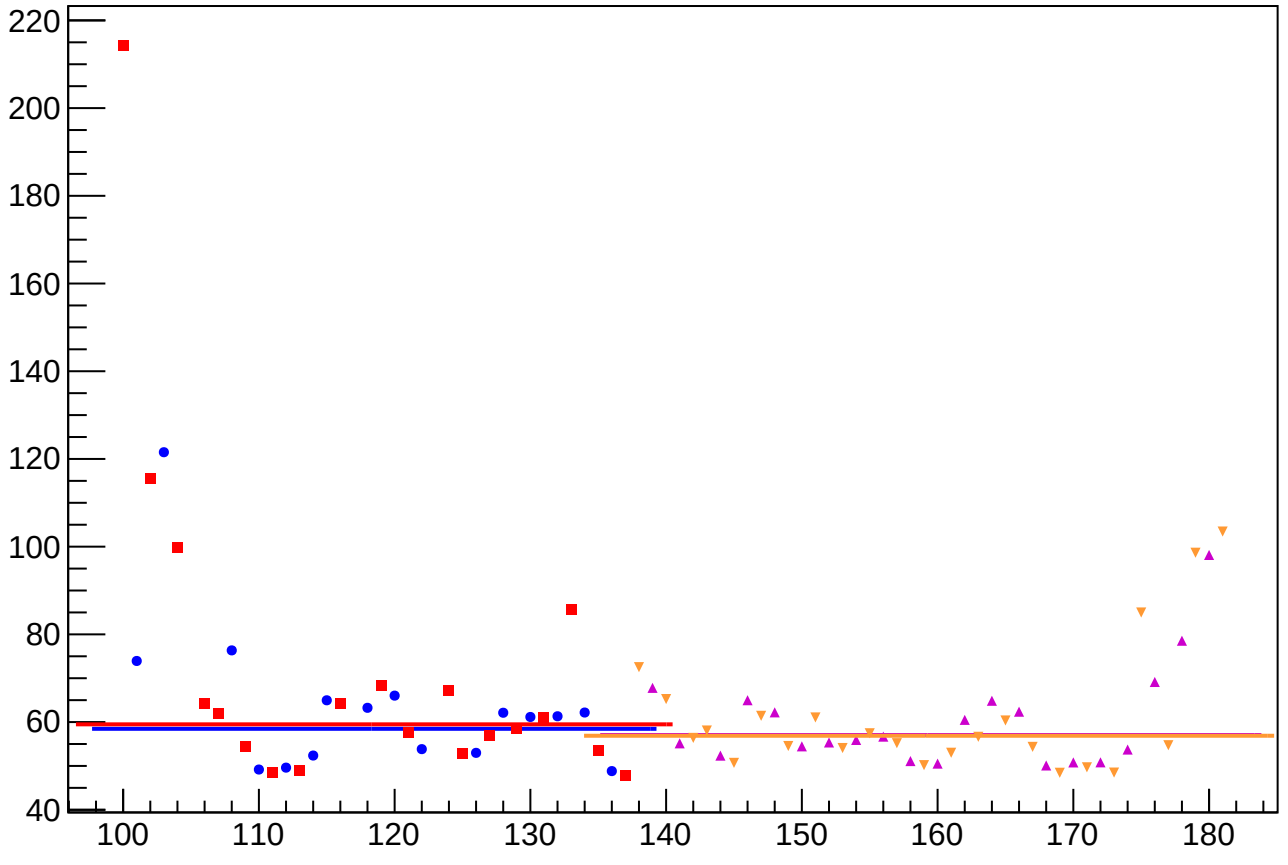
Left: 51.054+/-9.810 $\chi^2$/NDF: 49.1/43

Right: 12.312+/-15.997 $\chi^2$/NDF: 40.9/34

In: 38.686+/-11.932 $\chi^2$/NDF:53.1/36

Out: 42.186+/-11.724 $\chi^2$/NDF:41.0/41

All: 40.467+/-8.363 $\chi^2$/NDF: 94.2/78




Right In: 58.466+/-0.016 $\chi^2$/NDF: 582980.6/15

Left Out: 56.883+/-0.010 $\chi^2$/NDF:1089482.3/22

Right Out: 59.484+/-0.016 $\chi^2$/NDF: 784880.2/18

Left In: 57.050+/-0.010 $\chi^2$/NDF:724670.0/20

Left: 56.964+/-0.007 $\chi^2$/NDF: 1814297.2/43

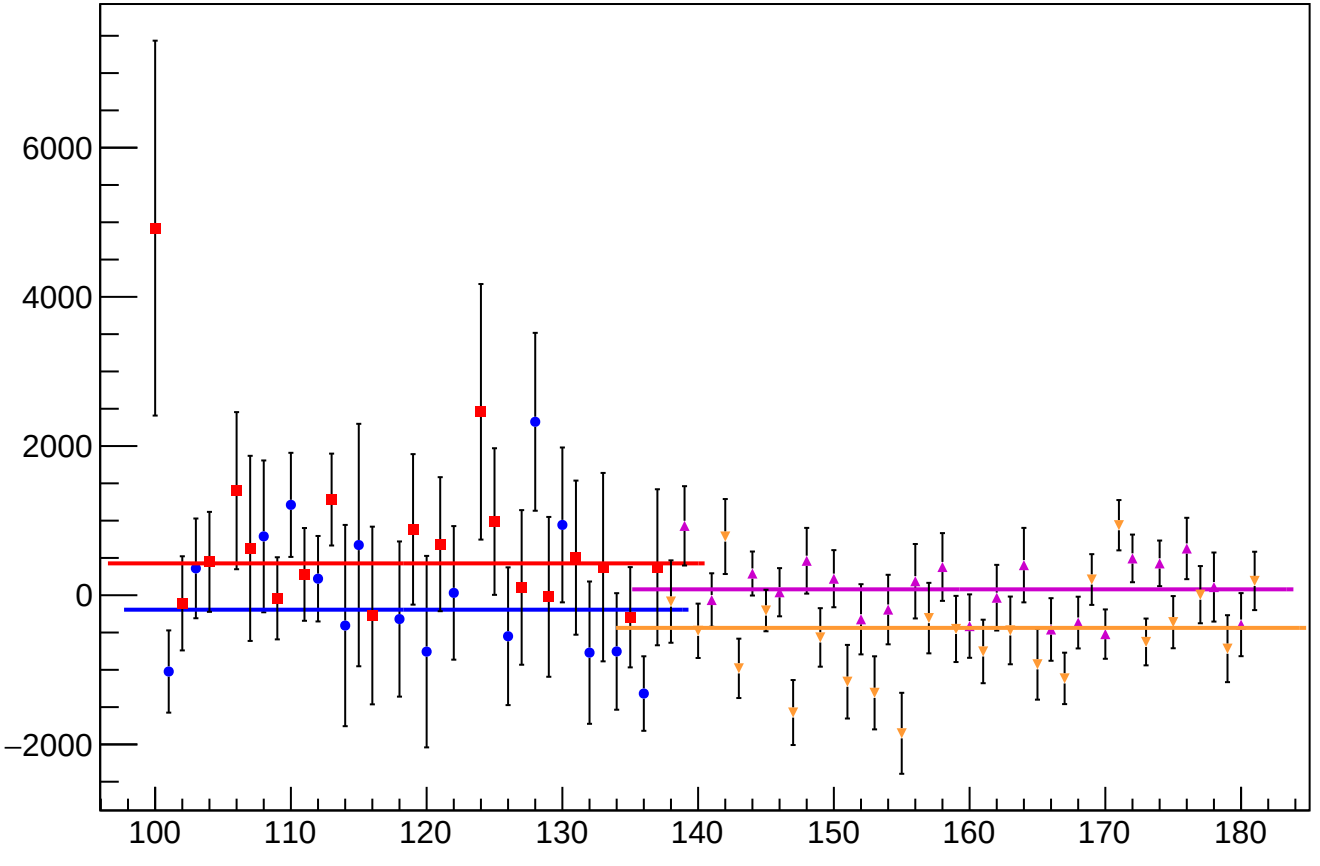
Right: 58.968+/-0.011 $\chi^2$/NDF: 1369888.0/34

In: 57.449+/-0.008 $\chi^2$/NDF:1313347.0/36

Out: 57.573+/-0.008 $\chi^2$/NDF:1893546.8/41

All: 57.512+/-0.006 $\chi^2$/NDF: 3207003.3/78

asym_sam_1357_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -193.899+/-200.603 $\chi^2$/NDF: 20.8/15

Left Out: -437.767+/-83.239 $\chi^2$/NDF:58.5/22

Right Out: 426.976+/-197.005 $\chi^2$/NDF: 11.3/18

Left In: 79.022+/-85.487 $\chi^2$/NDF:20.1/20

Left: -186.258+/-59.638 $\chi^2$/NDF: 97.3/43

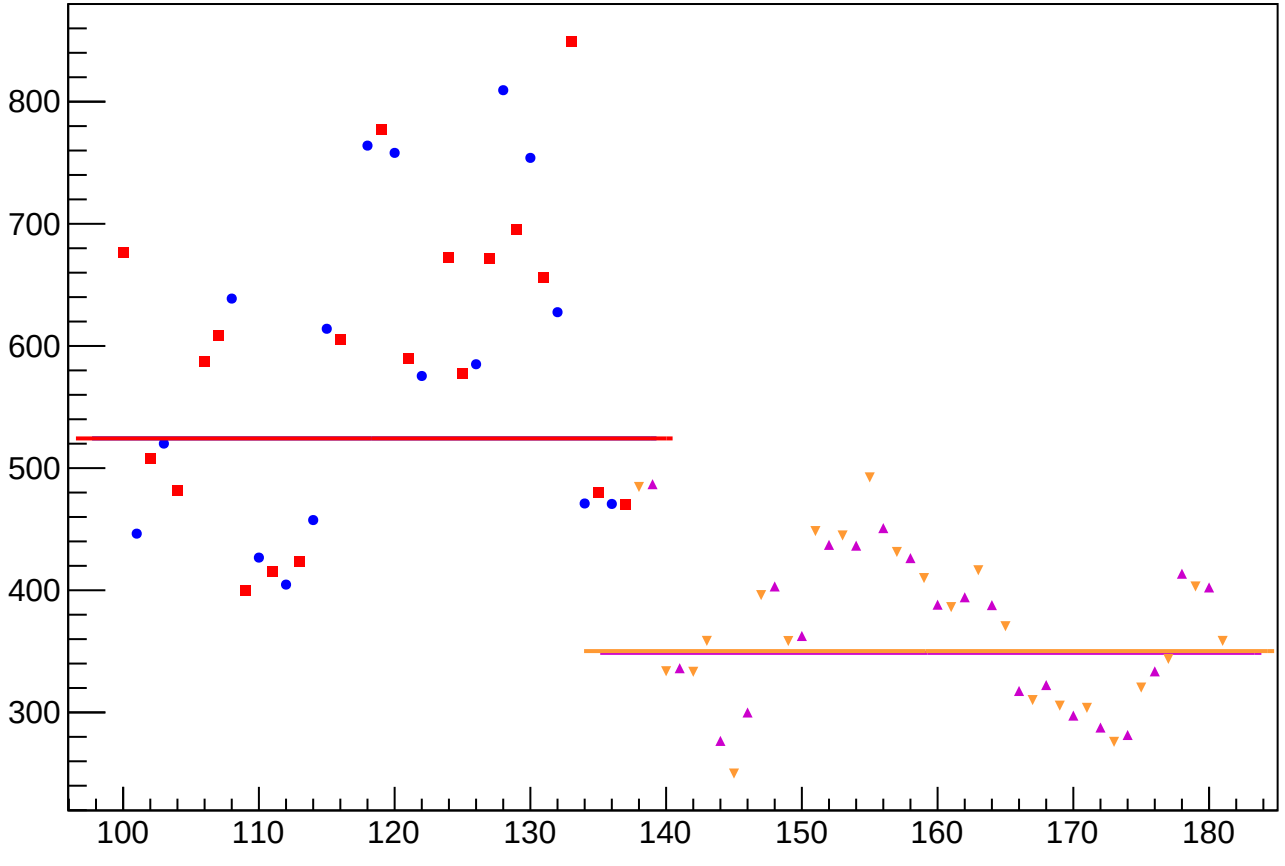
Right: 122.157+/-140.558 $\chi^2$/NDF: 37.0/34

In: 37.075+/-78.644 $\chi^2$/NDF:42.5/36

Out: -306.774+/-76.676 $\chi^2$/NDF:86.1/41

All: -139.206+/-54.901 $\chi^2$/NDF: 138.4/78

asym_sam_1357_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 524.325+/-0.142 $\chi^2$/NDF: 658493.8/15

Left Out: 350.204+/-0.059 $\chi^2$/NDF:1111231.8/22

Right Out: 524.305+/-0.139 $\chi^2$/NDF: 686063.6/18

Left In: 348.755+/-0.060 $\chi^2$/NDF:984483.0/20

Left: 349.499+/-0.042 $\chi^2$/NDF: 2096009.9/43

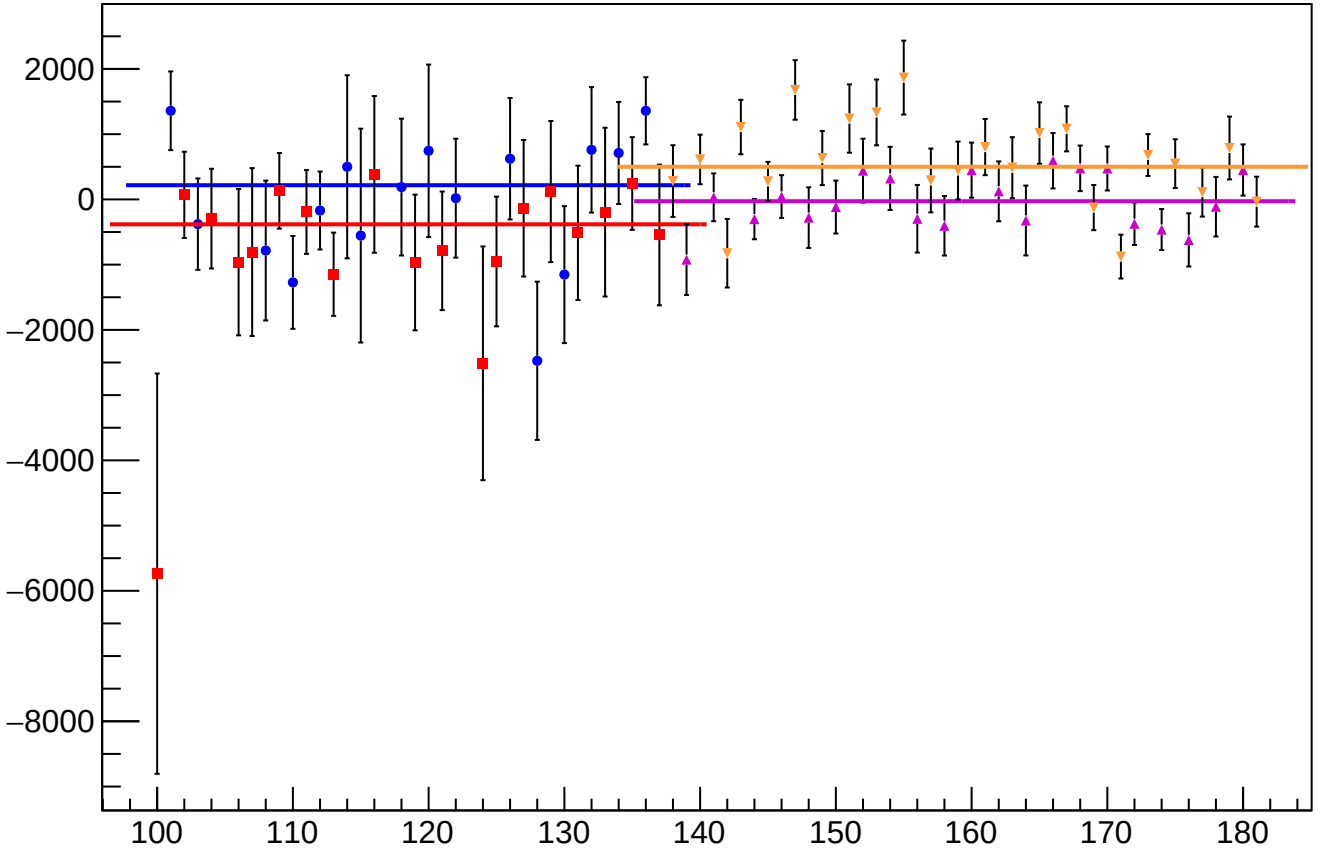
Right: 524.315+/-0.099 $\chi^2$/NDF: 1344557.5/34

In: 375.739+/-0.056 $\chi^2$/NDF:2939506.1/36

Out: 376.578+/-0.054 $\chi^2$/NDF:3122674.6/41

All: 376.169+/-0.039 $\chi^2$/NDF: 6062297.2/78

# asym_sam_1357_avg_mean vs Slug, Sign Corrected




Right In: 217.756+/-207.492 $\chi^2$/NDF: 22.9/15

Left Out: 500.227+/-85.560 $\chi^2$/NDF:55.1/22

Right Out: -381.836+/-205.585 $\chi^2$/NDF: 10.0/18

Left In: -27.627+/-87.231 $\chi^2$/NDF:21.1/20

Left: 241.403+/-61.082 $\chi^2$/NDF: 94.9/43

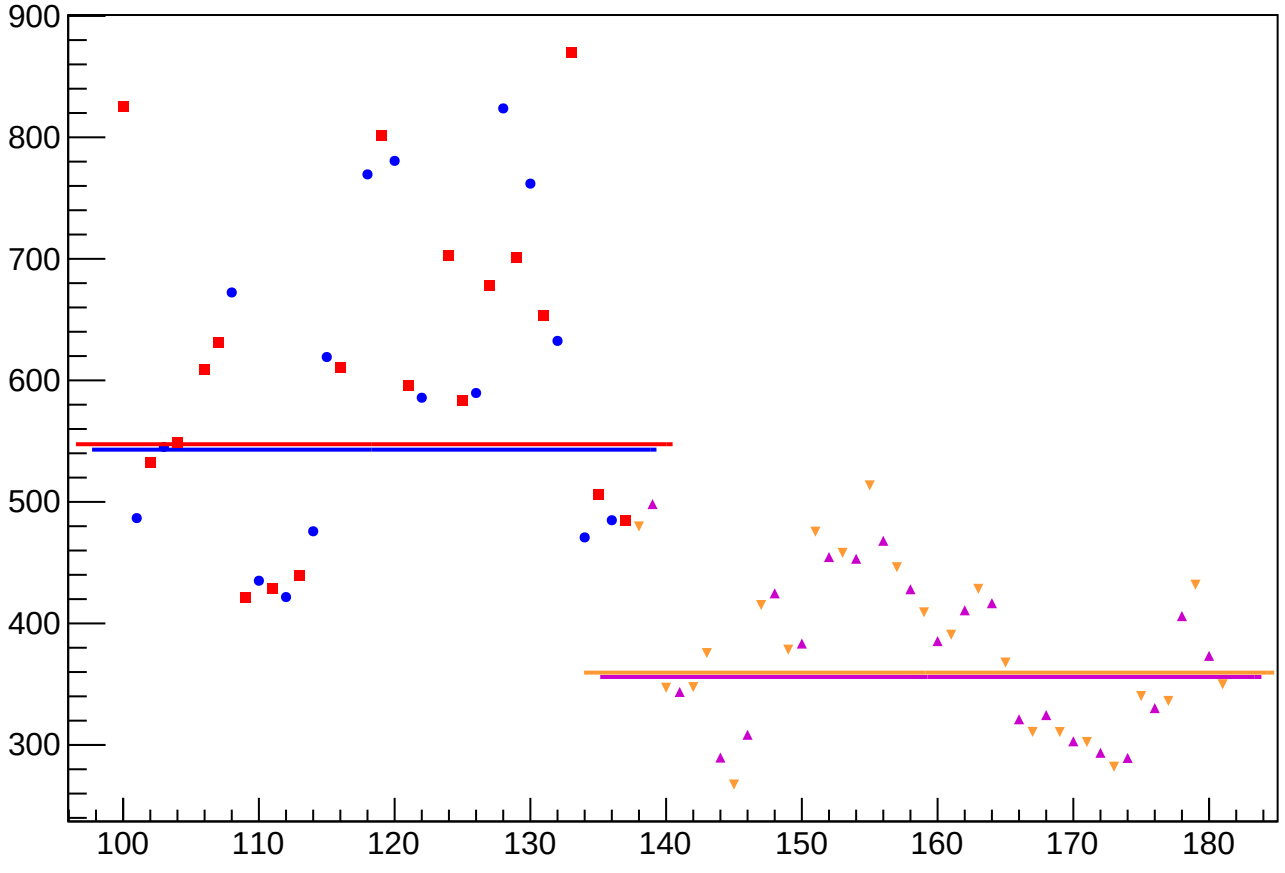
Right: -84.807+/-146.040 $\chi^2$/NDF: 37.1/34

In: 9.228+/-80.413 $\chi^2$/NDF:45.2/36

Out: 370.005+/-78.992 $\chi^2$/NDF:80.8/41

All: 192.833+/-56.352 $\chi^2$/NDF: 136.2/78

# asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 542.997+/-0.147 $\chi^2$/NDF: 605250.7/15

Left Out: 359.528+/-0.061 $\chi^2$/NDF:1104324.2/22

Right Out: 547.465+/-0.145 $\chi^2$/NDF: 630284.0/18

Left In: 355.922+/-0.062 $\chi^2$/NDF:973362.5/20

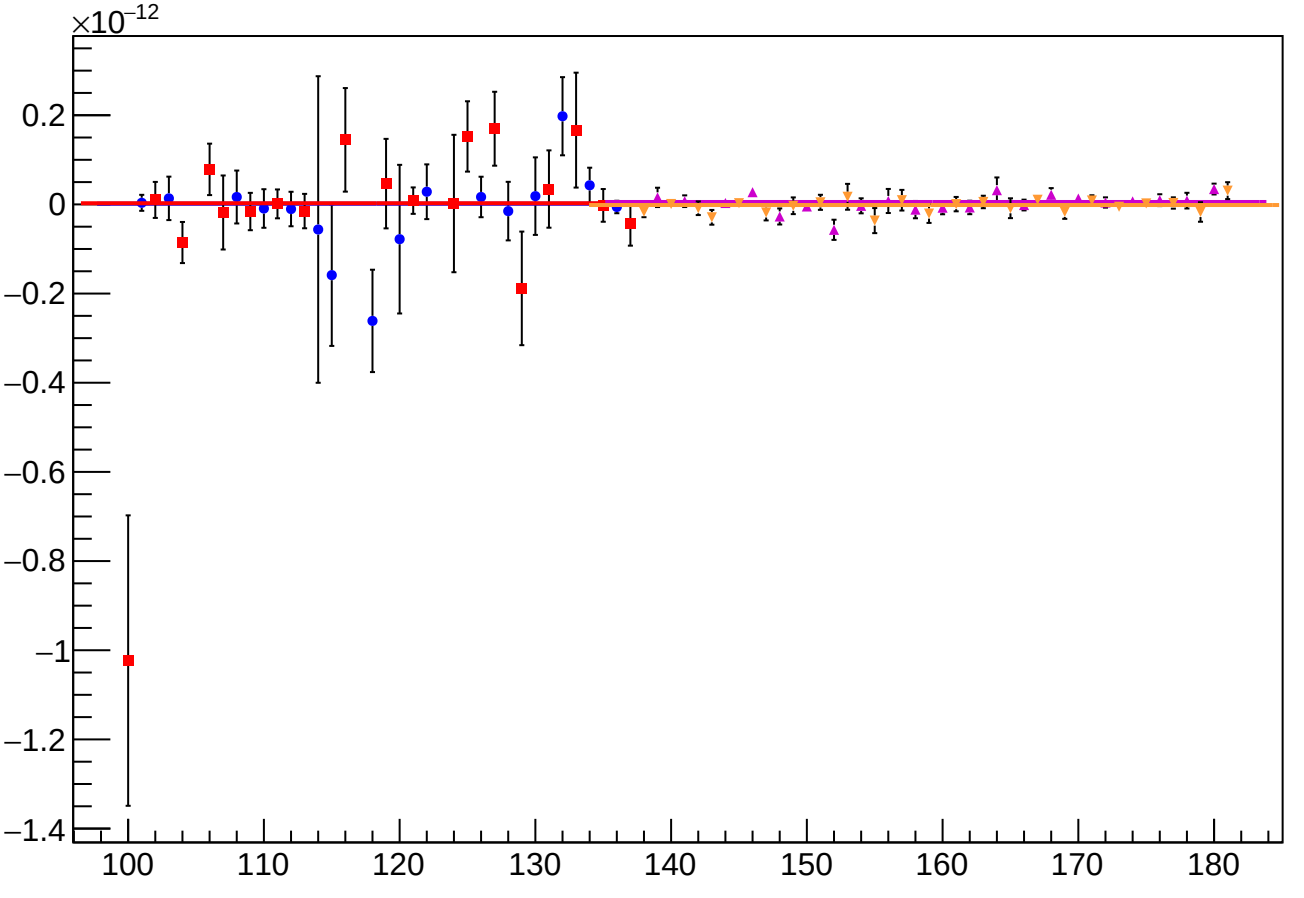
Left: 357.760+/-0.043 $\chi^2$/NDF: 2079428.9/43

Right: 545.252+/-0.103 $\chi^2$/NDF: 1236002.5/34

In: 384.020+/-0.057 $\chi^2$/NDF:2960205.5/36

Out: 387.274+/-0.056 $\chi^2$/NDF:3159212.0/41

All: 385.676+/-0.040 $\chi^2$/NDF: 6121084.3/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 30.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 46.1/43

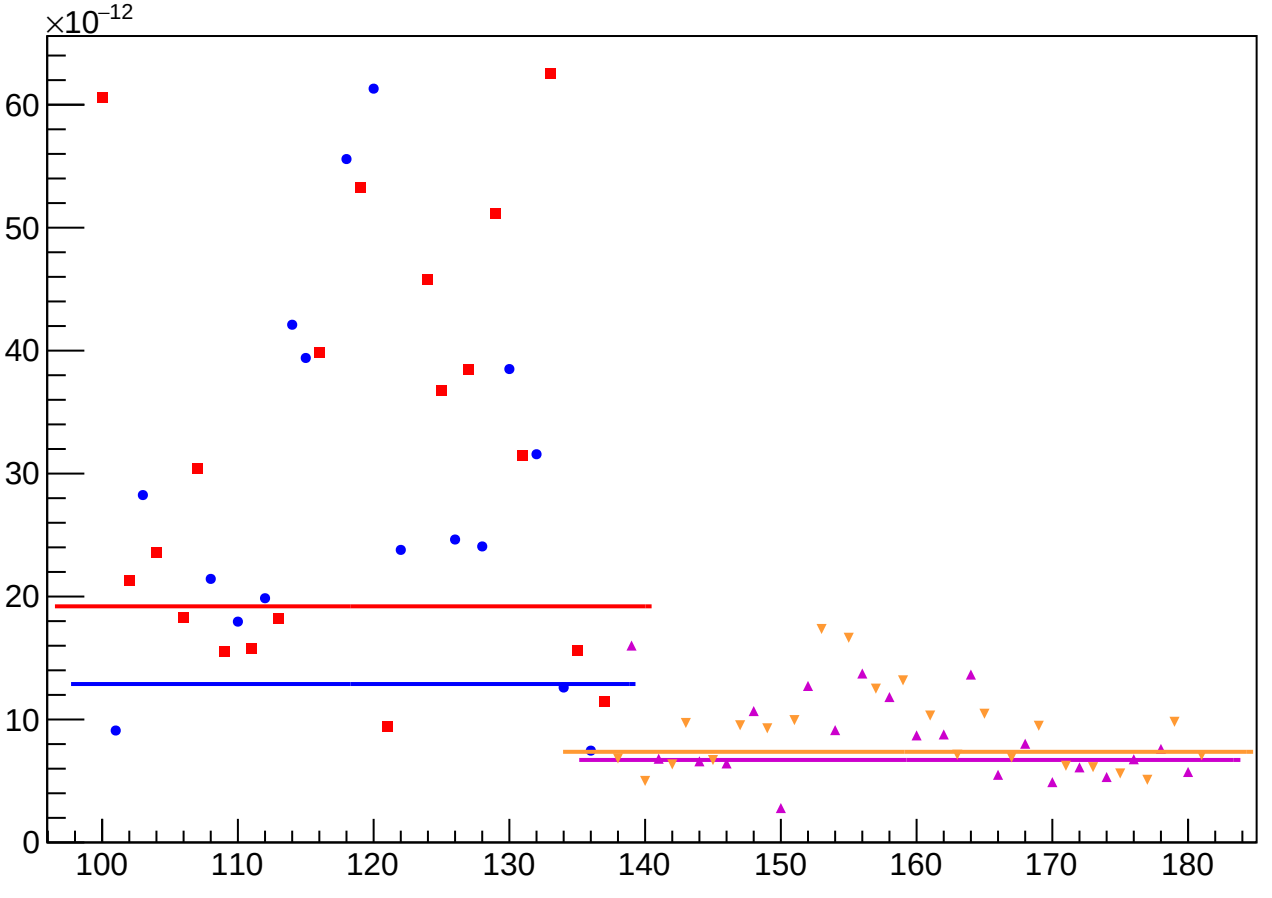
Right: 0.000+/-0.000 $\chi^2$/NDF: 43.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:41.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:45.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 89.8/78

asym_sam_1357_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1756750.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1373567.3/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1367620.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1722204.3/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3147260.5/43

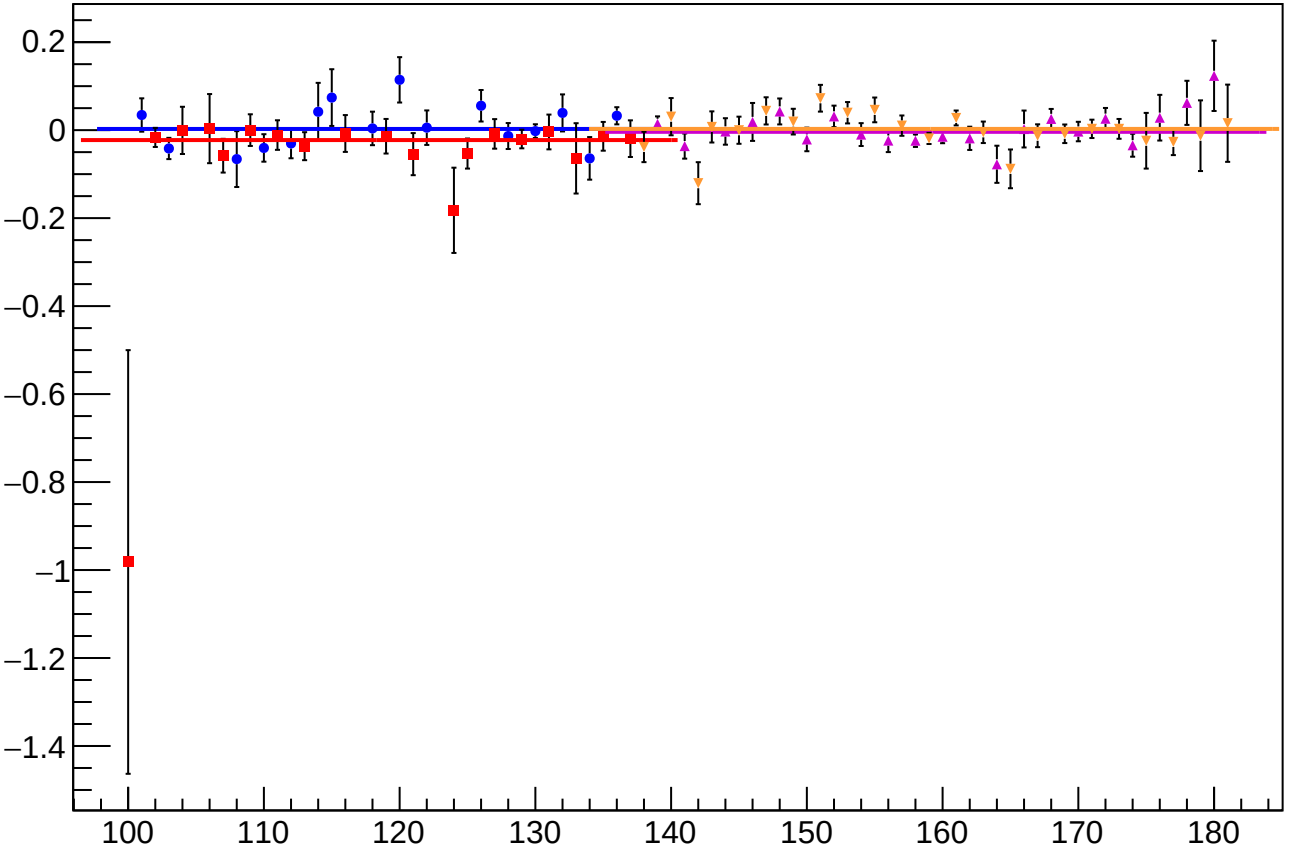
Right: 0.000+/-0.000 $\chi^2$/NDF: 3472471.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:4320153.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:4538413.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 8927452.6/78

asym_sam_1357_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: 0.003+/-0.005 $\chi^2$/NDF:31.9/22

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: -0.004+/-0.005 $\chi^2$/NDF:23.4/20

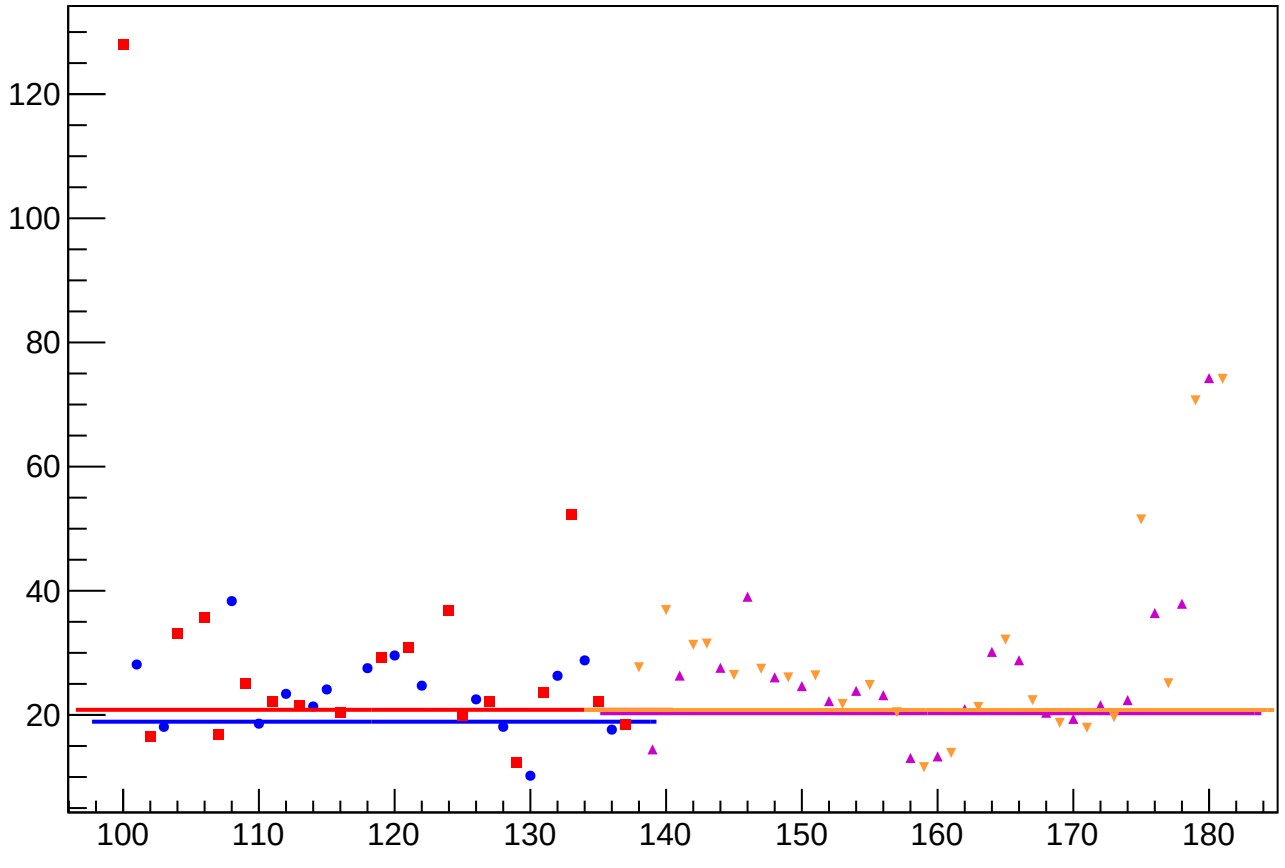
Left: -0.001+/-0.004 $\chi^2$/NDF: 56.1/43

Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: -0.002+/-0.004 $\chi^2$/NDF:45.9/36

Out: -0.005+/-0.005 $\chi^2$/NDF:49.1/41

All: -0.003+/-0.003 $\chi^2$/NDF: 95.1/78




Right In: 18.911+/-0.006 $\chi^2$/NDF: 1390349.2/15

Left Out: 20.793+/-0.004 $\chi^2$/NDF:4601243.7/22

Right Out: 20.826+/-0.006 $\chi^2$/NDF: 1291541.1/18

Left In: 20.276+/-0.004 $\chi^2$/NDF:3552029.1/20

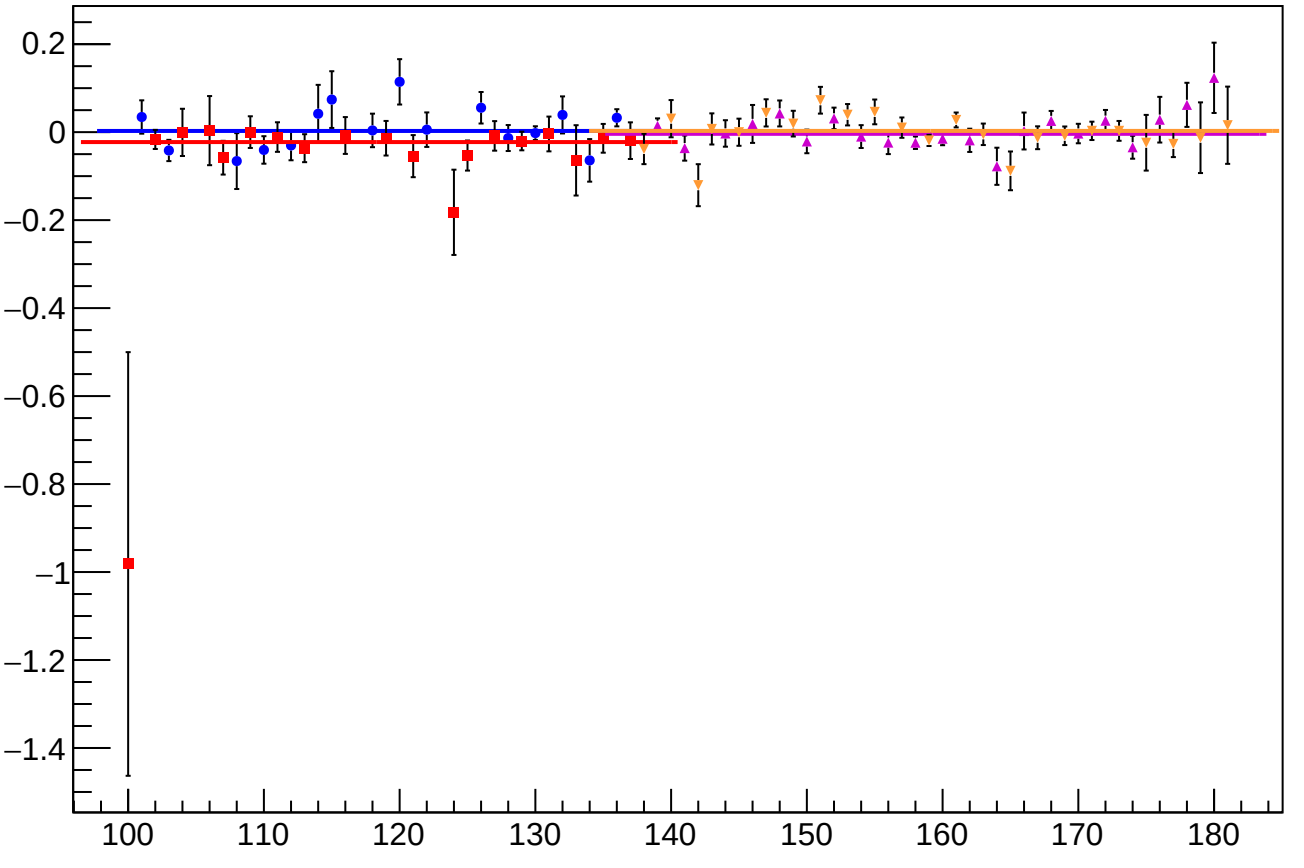
Left: 20.534+/-0.003 $\chi^2$/NDF: 8162210.3/43

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737339.0/34

In: 19.828+/-0.003 $\chi^2$/NDF:4983490.2/36

Out: 20.803+/-0.003 $\chi^2$/NDF:5892807.2/41

All: 20.302+/-0.002 $\chi^2$/NDF: 10922504.1/78




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: 0.003+/-0.005 $\chi^2$/NDF:31.9/22

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: -0.004+/-0.005 $\chi^2$/NDF:23.4/20

Left: -0.001+/-0.004 $\chi^2$/NDF: 56.1/43

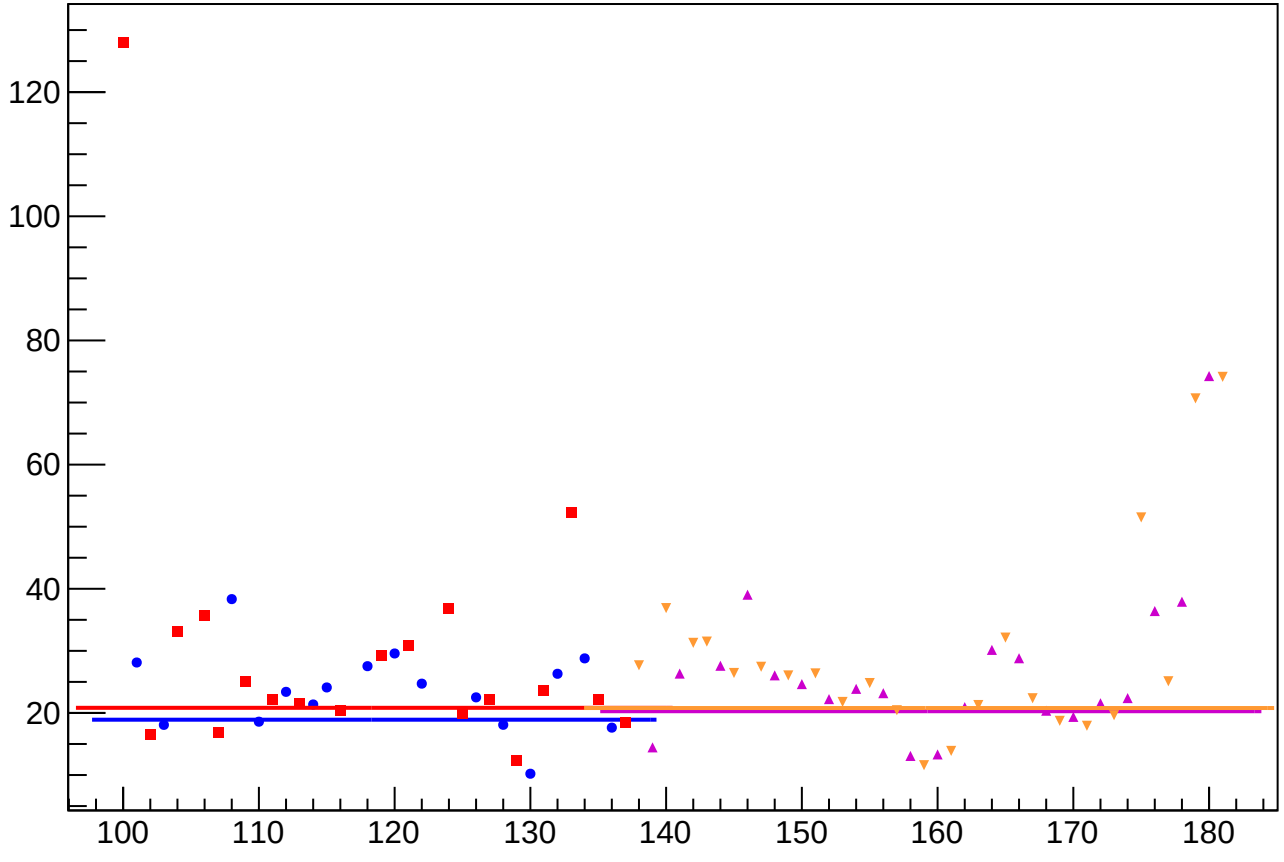
Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: -0.002+/-0.004 $\chi^2$/NDF:45.9/36

Out: -0.005+/-0.005 $\chi^2$/NDF:49.1/41

All: -0.003+/-0.003 $\chi^2$/NDF: 95.1/78

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.911+/-0.006 $\chi^2$/NDF: 1390349.2/15

Left Out: 20.793+/-0.004 $\chi^2$/NDF:4601243.7/22

Right Out: 20.826+/-0.006 $\chi^2$/NDF: 1291541.1/18

Left In: 20.276+/-0.004 $\chi^2$/NDF:3552029.1/20

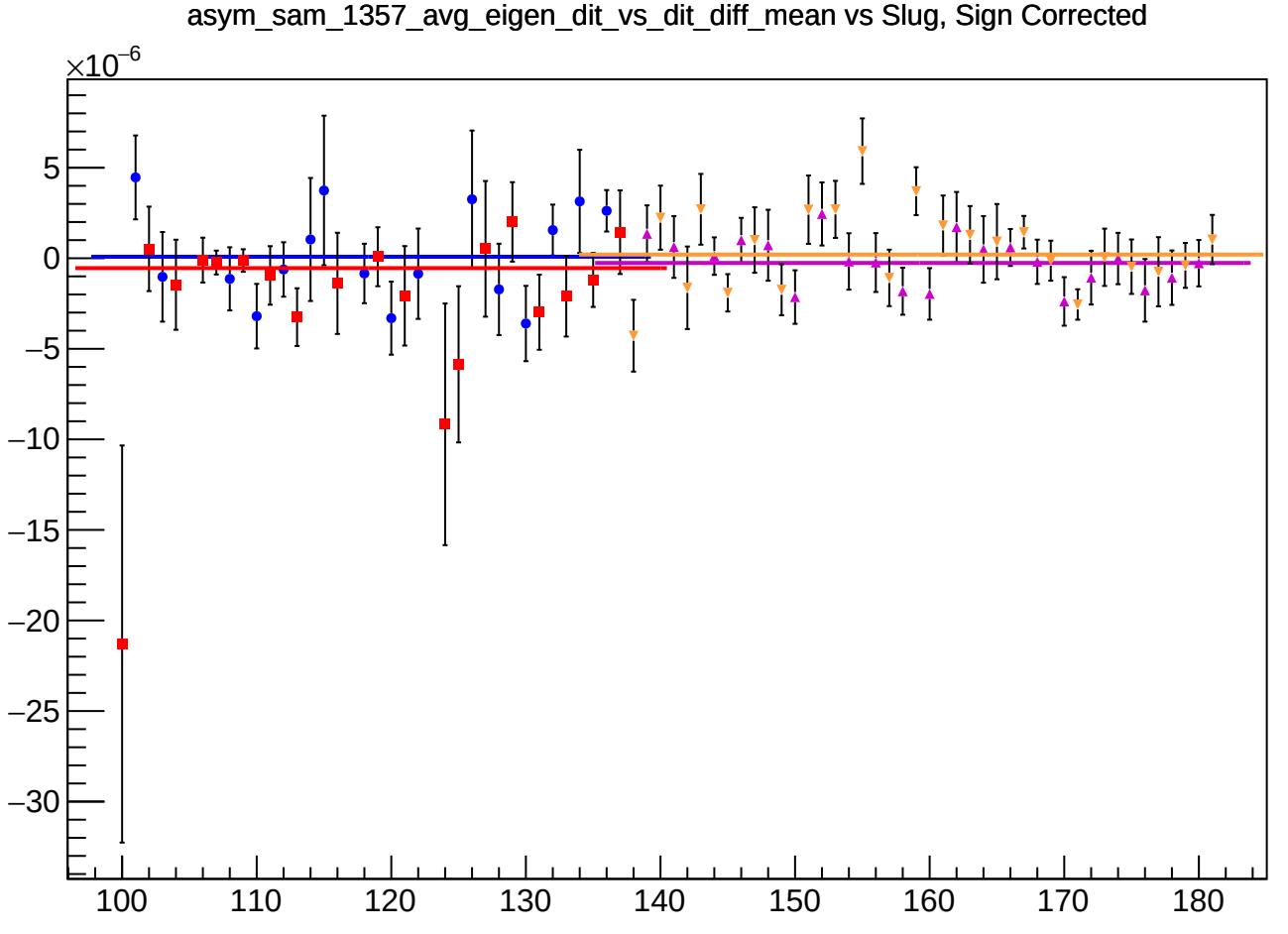
Left: 20.534+/-0.003 $\chi^2$/NDF: 8162210.3/43

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737339.0/34

In: 19.828+/-0.003 $\chi^2$/NDF:4983490.2/36

Out: 20.803+/-0.003 $\chi^2$/NDF:5892807.2/41

All: 20.302+/-0.002 $\chi^2$/NDF: 10922504.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:52.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.5/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 68.9/43

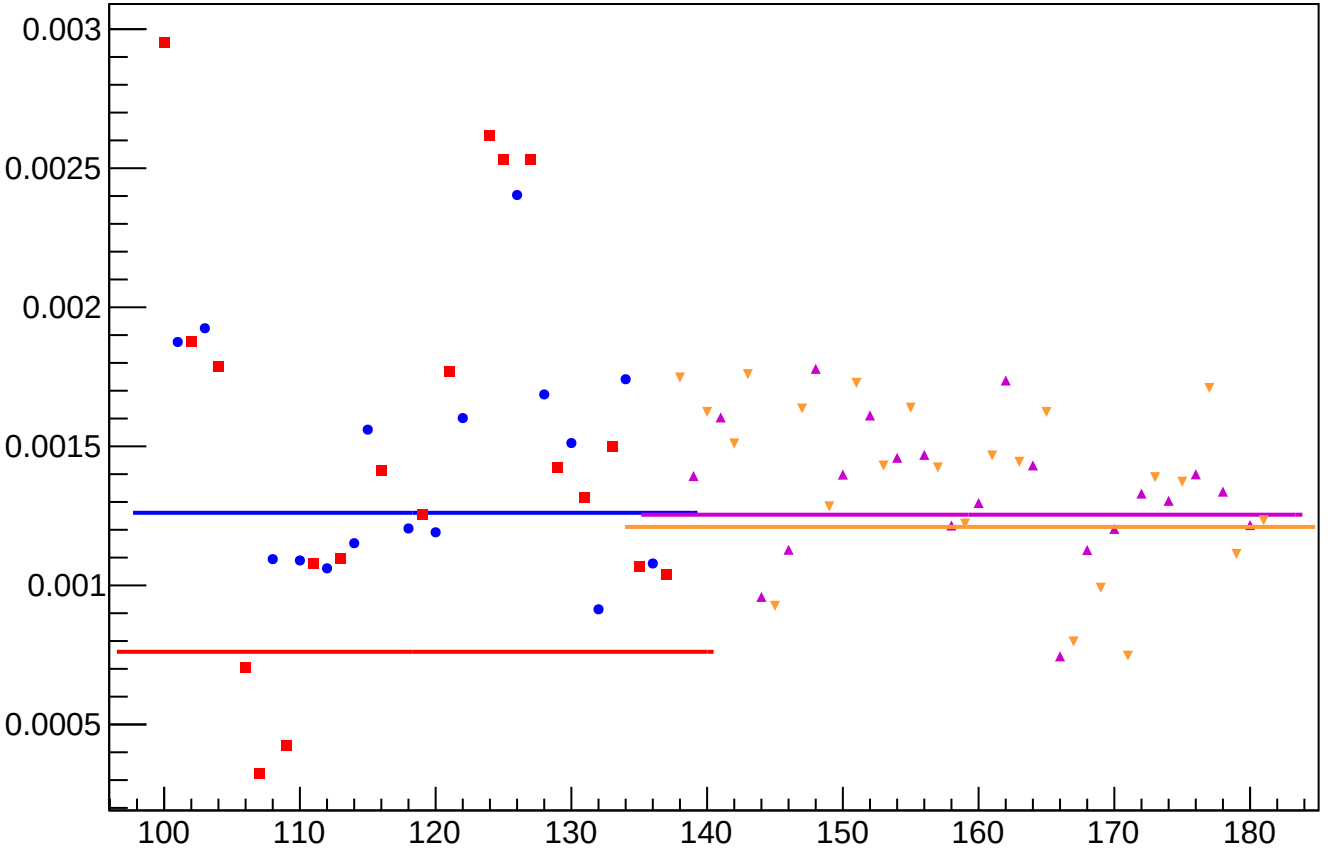
Right: -0.000+/-0.000 $\chi^2$/NDF: 40.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:39.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:70.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 110.1/78

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 907342.5/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:2532232.1/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4672607.8/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1299294.1/20

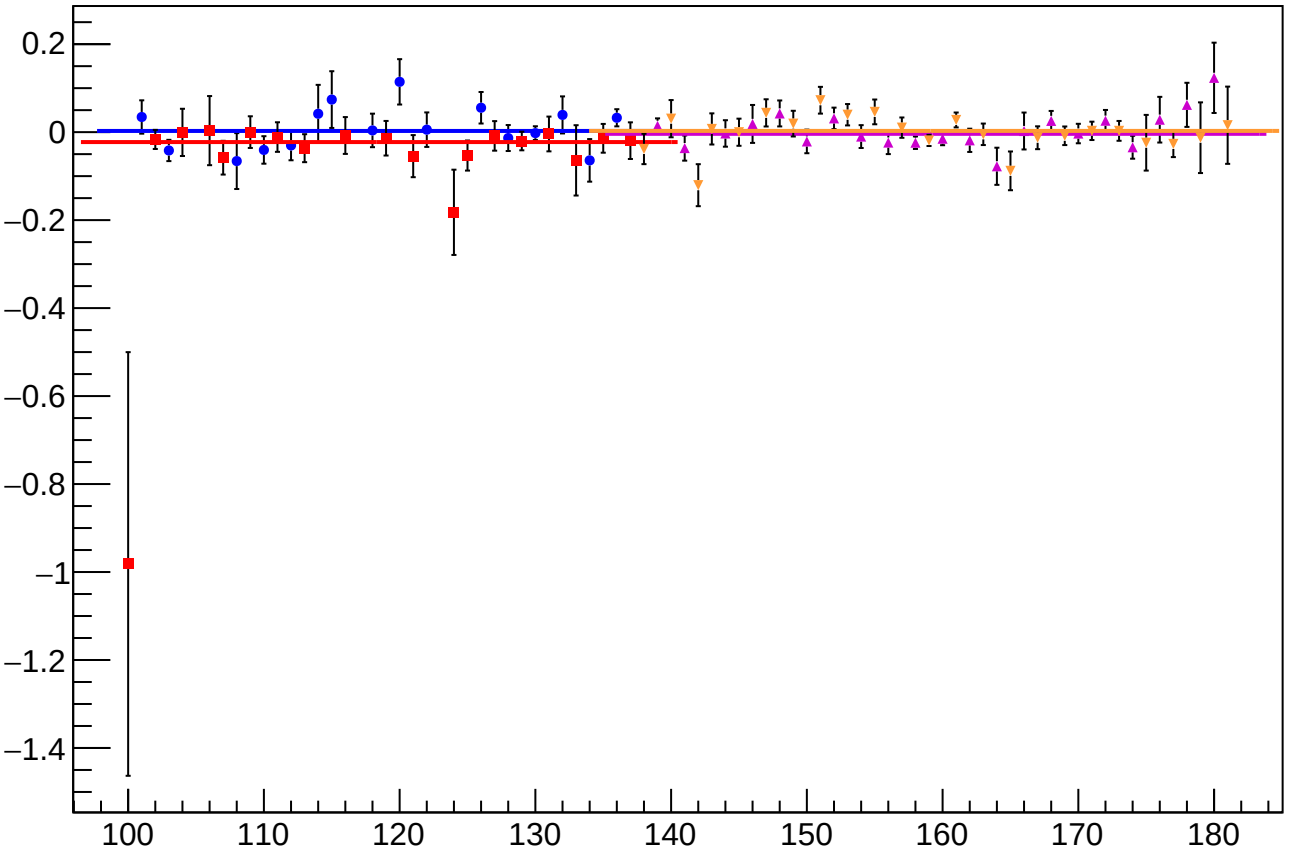
Left: 0.001+/-0.000 $\chi^2$/NDF: 3852625.8/43

Right: 0.001+/-0.000 $\chi^2$/NDF: 6998069.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:2206915.9/36

Out: 0.001+/-0.000 $\chi^2$/NDF:9208110.4/41

All: 0.001+/-0.000 $\chi^2$/NDF: 12386826.8/78




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: 0.003+/-0.005 $\chi^2$/NDF:31.9/22

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: -0.004+/-0.005 $\chi^2$/NDF:23.4/20

Left: -0.001+/-0.004 $\chi^2$/NDF: 56.1/43

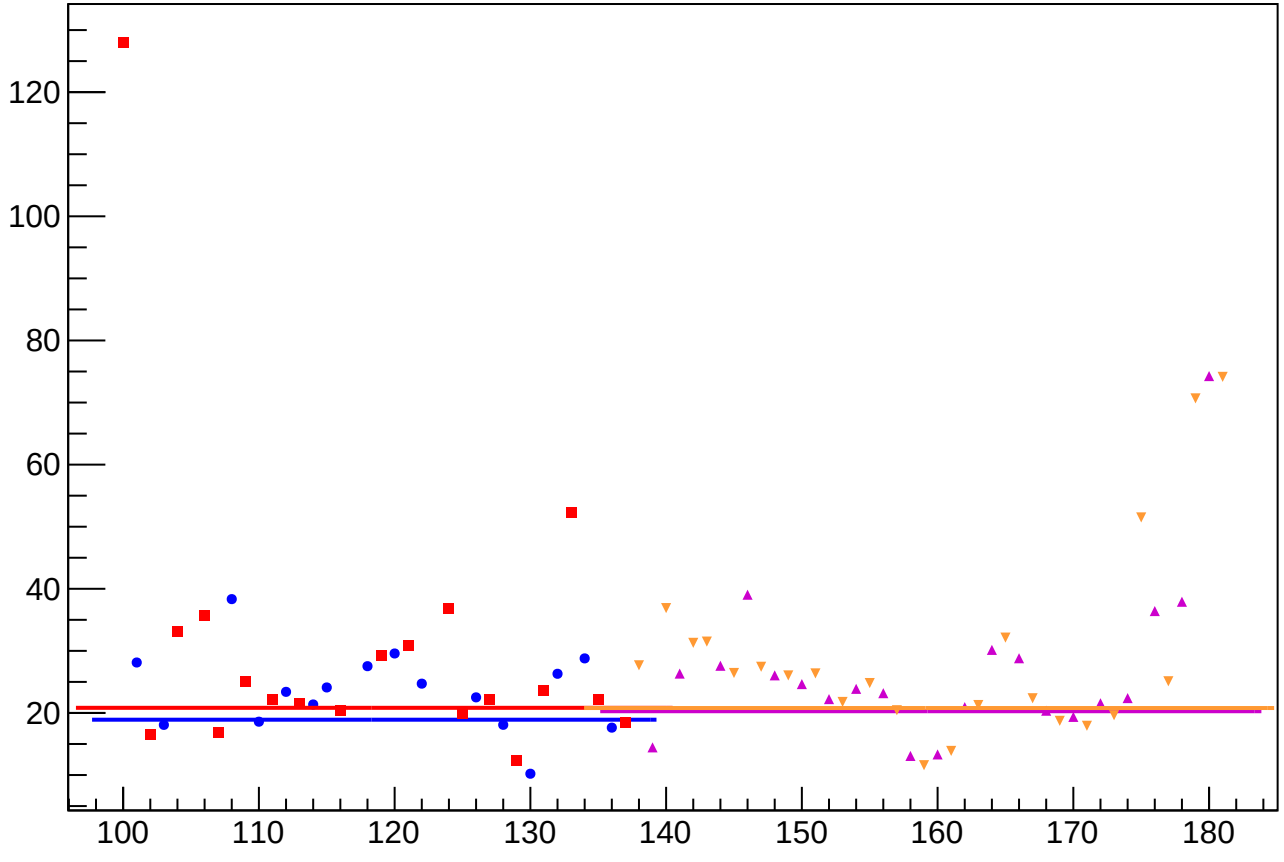
Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: -0.002+/-0.004 $\chi^2$/NDF:45.9/36

Out: -0.005+/-0.005 $\chi^2$/NDF:49.1/41

All: -0.003+/-0.003 $\chi^2$/NDF: 95.1/78

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.912+/-0.006 $\chi^2$/NDF: 1390233.4/15

Left Out: 20.793+/-0.004 $\chi^2$/NDF:4601387.0/22

Right Out: 20.827+/-0.006 $\chi^2$/NDF: 1291537.3/18

Left In: 20.277+/-0.004 $\chi^2$/NDF:3552044.8/20

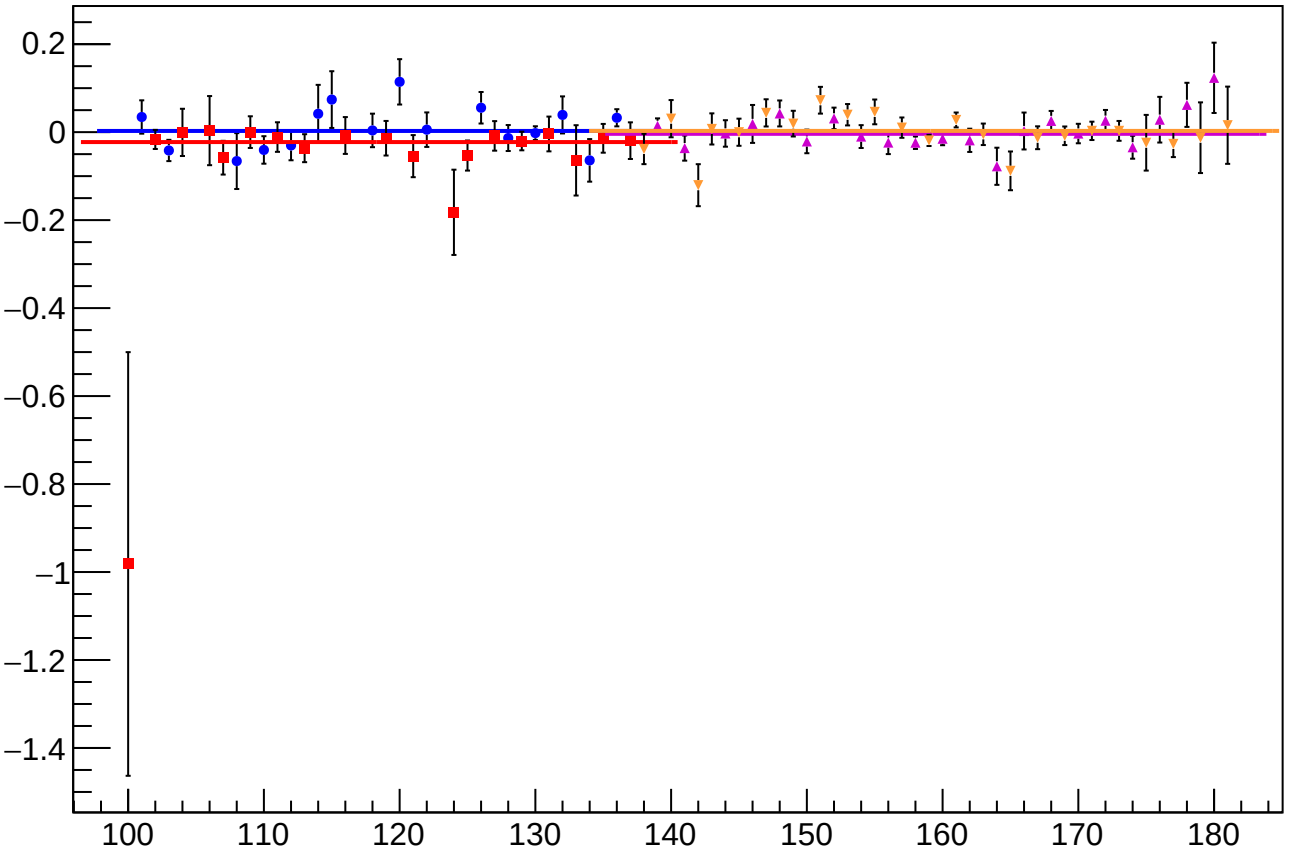
Left: 20.534+/-0.003 $\chi^2$/NDF: 8162363.4/43

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737206.7/34

In: 19.829+/-0.003 $\chi^2$/NDF:4983377.2/36

Out: 20.803+/-0.003 $\chi^2$/NDF:5892946.9/41

All: 20.303+/-0.002 $\chi^2$/NDF: 10922512.4/78




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: 0.003+/-0.005 $\chi^2$/NDF:31.9/22

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: -0.004+/-0.005 $\chi^2$/NDF:23.4/20

Left: -0.001+/-0.004 $\chi^2$/NDF: 56.1/43

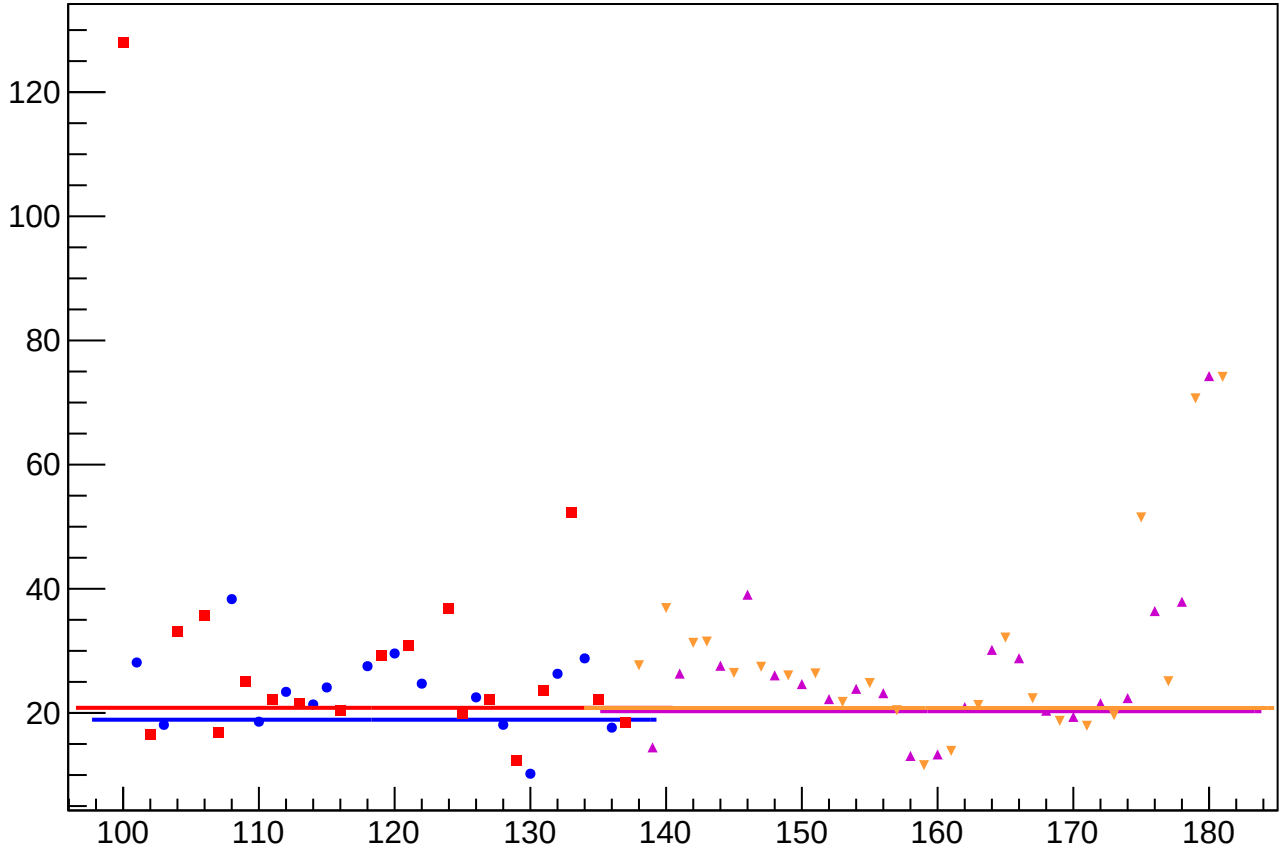
Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: -0.002+/-0.004 $\chi^2$/NDF:45.9/36

Out: -0.005+/-0.005 $\chi^2$/NDF:49.1/41

All: -0.003+/-0.003 $\chi^2$/NDF: 95.1/78

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.912+/-0.006 $\chi^2$/NDF: 1390233.4/15

Left Out: 20.793+/-0.004 $\chi^2$/NDF:4601387.0/22

Right Out: 20.827+/-0.006 $\chi^2$/NDF: 1291537.3/18

Left In: 20.277+/-0.004 $\chi^2$/NDF:3552044.8/20

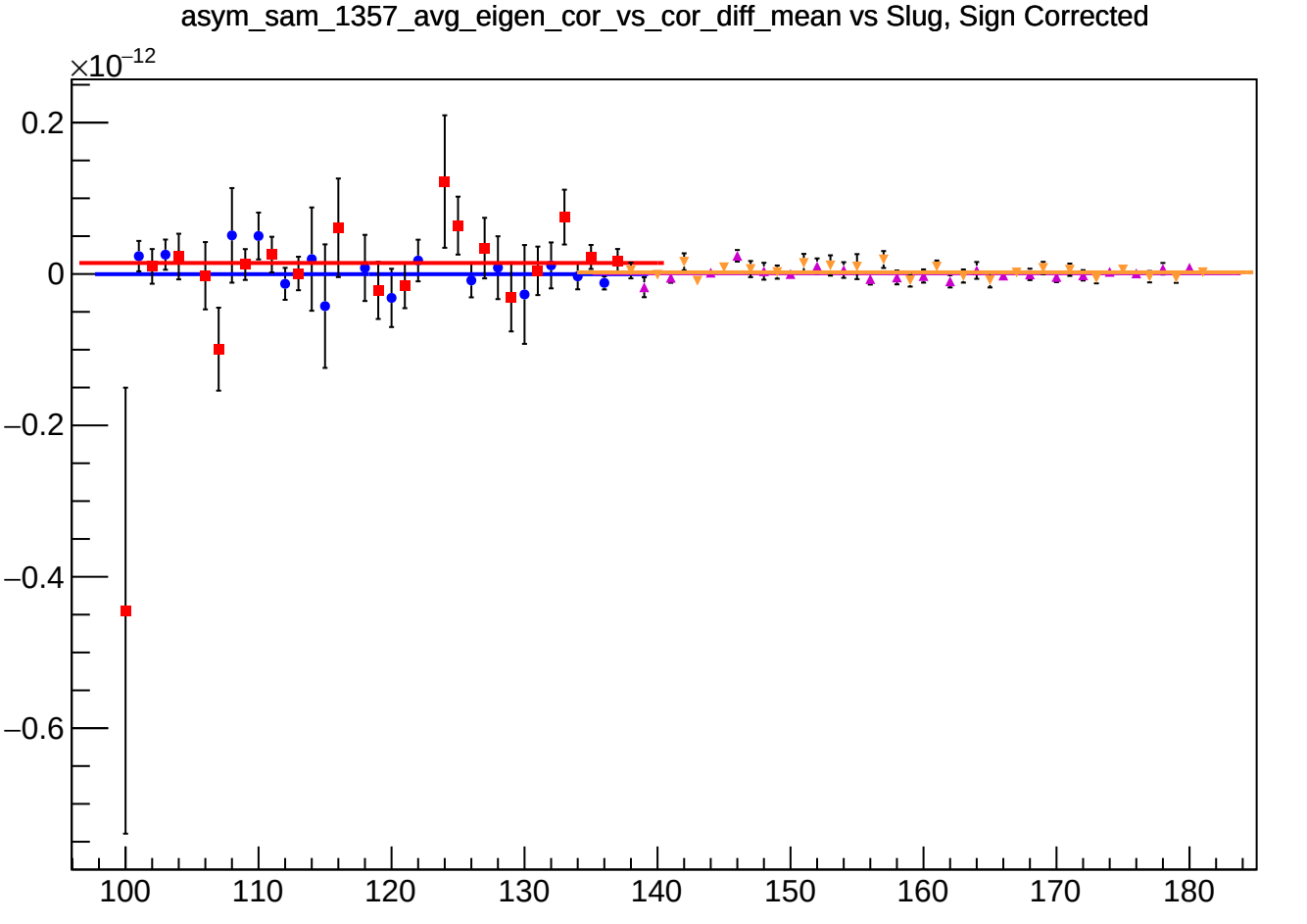
Left: 20.534+/-0.003 $\chi^2$/NDF: 8162363.4/43

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737206.7/34

In: 19.829+/-0.003 $\chi^2$/NDF:4983377.2/36

Out: 20.803+/-0.003 $\chi^2$/NDF:5892946.9/41

All: 20.303+/-0.002 $\chi^2$/NDF: 10922512.4/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:19.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.5/20

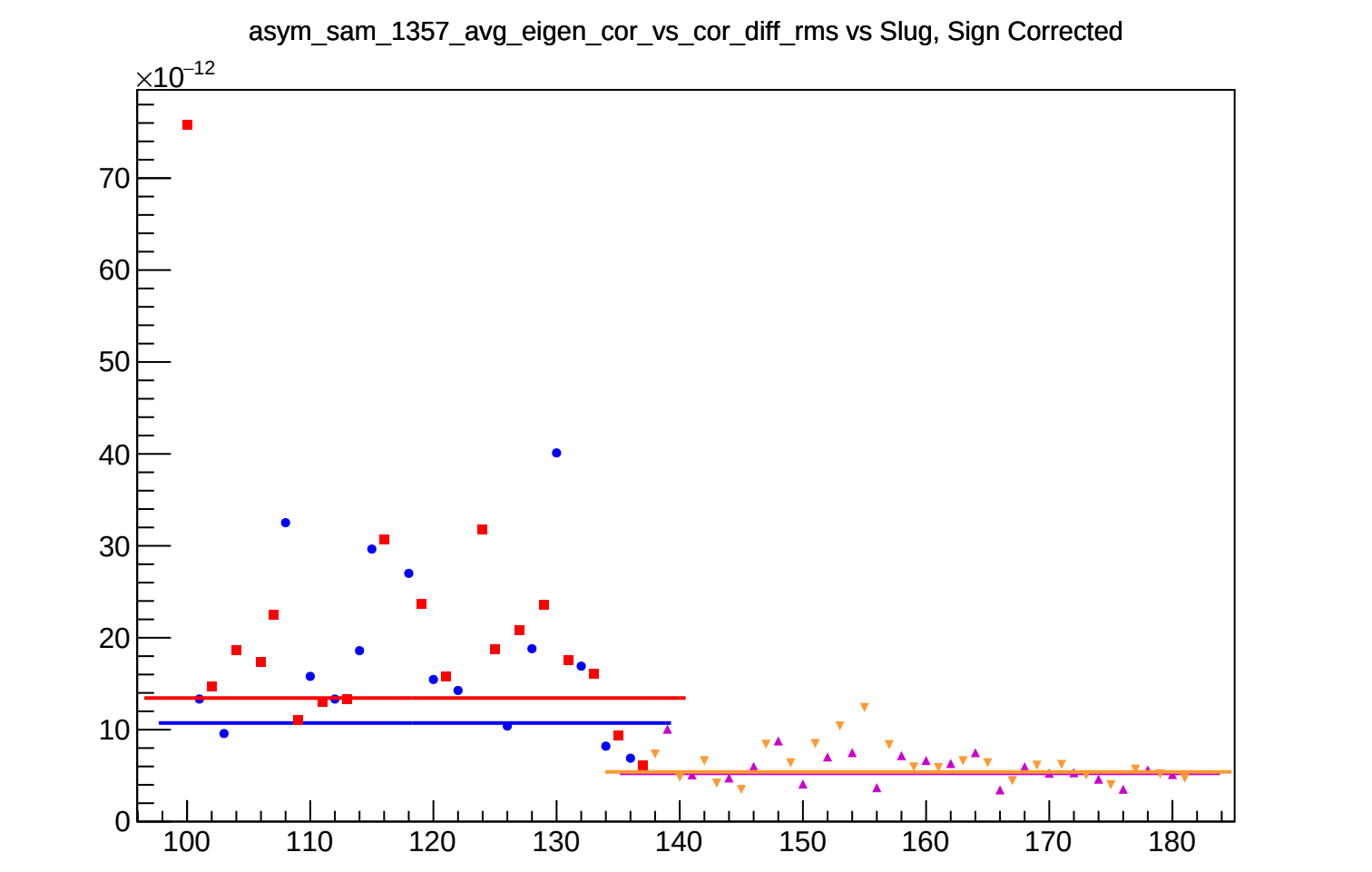
Left: 0.000+/-0.000 $\chi^2$/NDF: 38.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:30.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:40.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 71.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1836547.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1917786.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1402984.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1492653.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3419965.2/43

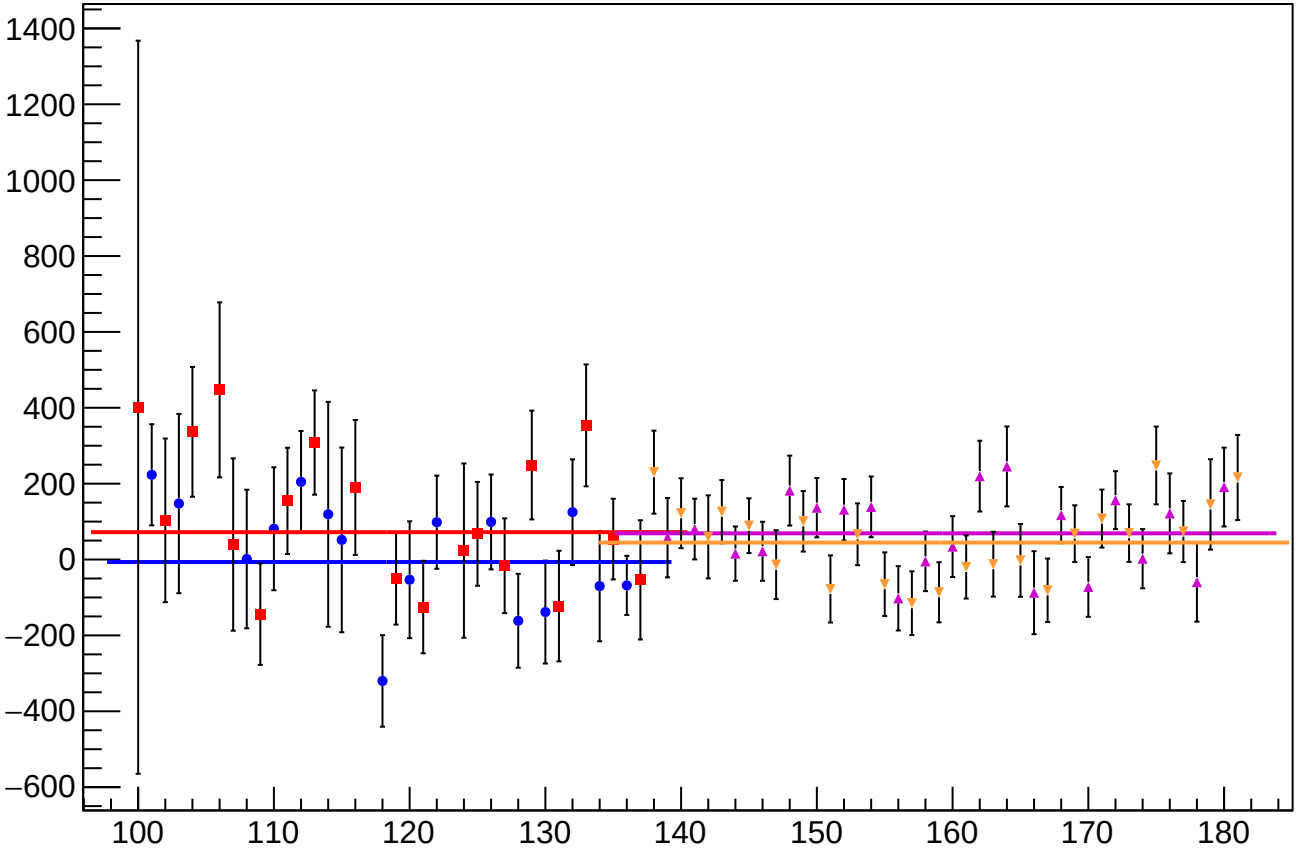
Right: 0.000+/-0.000 $\chi^2$/NDF: 3438709.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:5093229.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:6174915.9/41

All: 0.000+/-0.000 $\chi^2$/NDF: 11282573.0/78

# reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected




Right In: -6.559+/-34.286 $\chi^2$/NDF: 18.9/15

Left Out: 44.788+/-18.027 $\chi^2$/NDF:27.4/22

Right Out: 72.124+/-34.883 $\chi^2$/NDF: 22.8/18

Left In: 69.130+/-18.577 $\chi^2$/NDF:26.0/20

Left: 56.593+/-12.937 $\chi^2$/NDF: 54.3/43

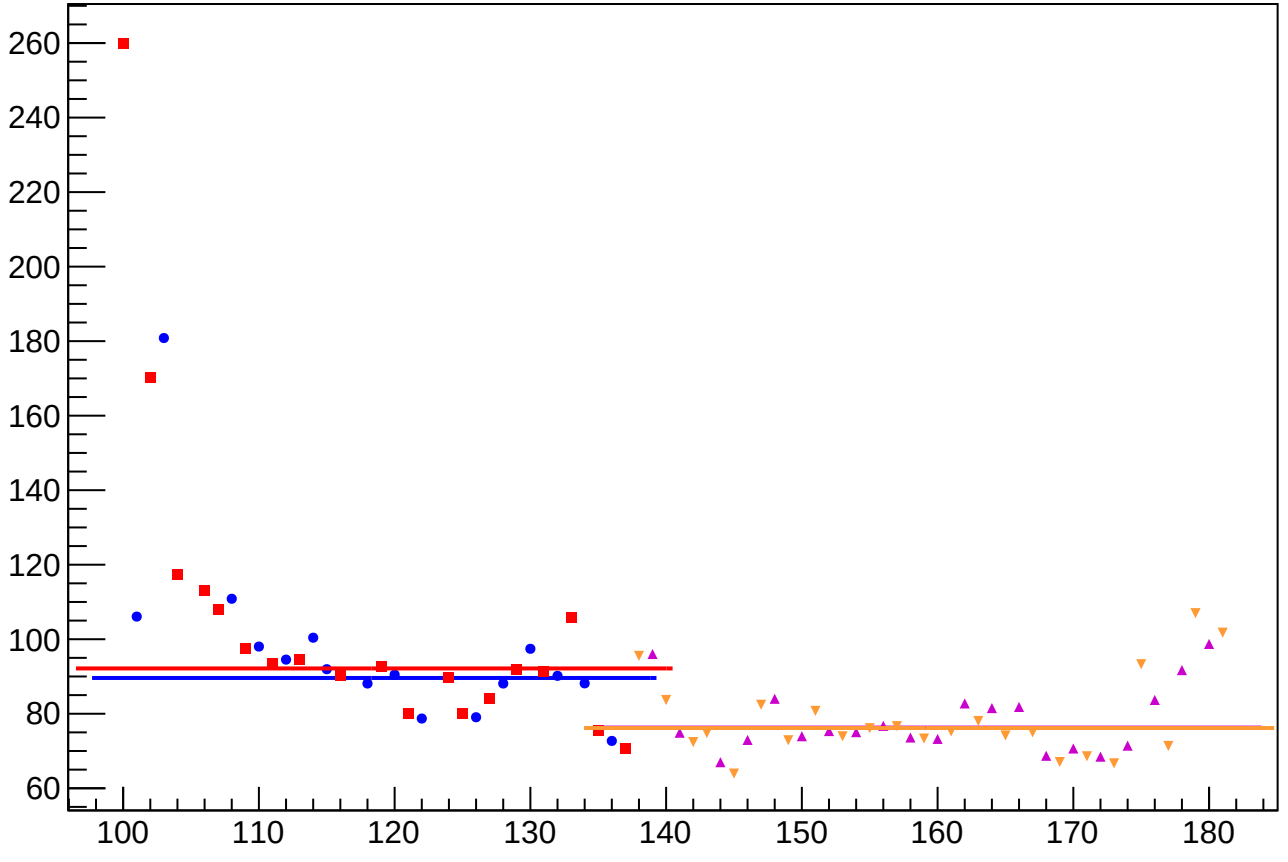
Right: 32.104+/-24.452 $\chi^2$/NDF: 44.3/34

In: 51.952+/-16.334 $\chi^2$/NDF:48.7/36

Out: 50.549+/-16.015 $\chi^2$/NDF:50.7/41

All: 51.237+/-11.435 $\chi^2$/NDF: 99.4/78

# reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498380.8/15

Left Out: 76.172+/-0.013 $\chi^2$/NDF:543143.9/22

Right Out: 92.161+/-0.025 $\chi^2$/NDF: 542074.4/18

Left In: 76.291+/-0.013 $\chi^2$/NDF:357418.1/20

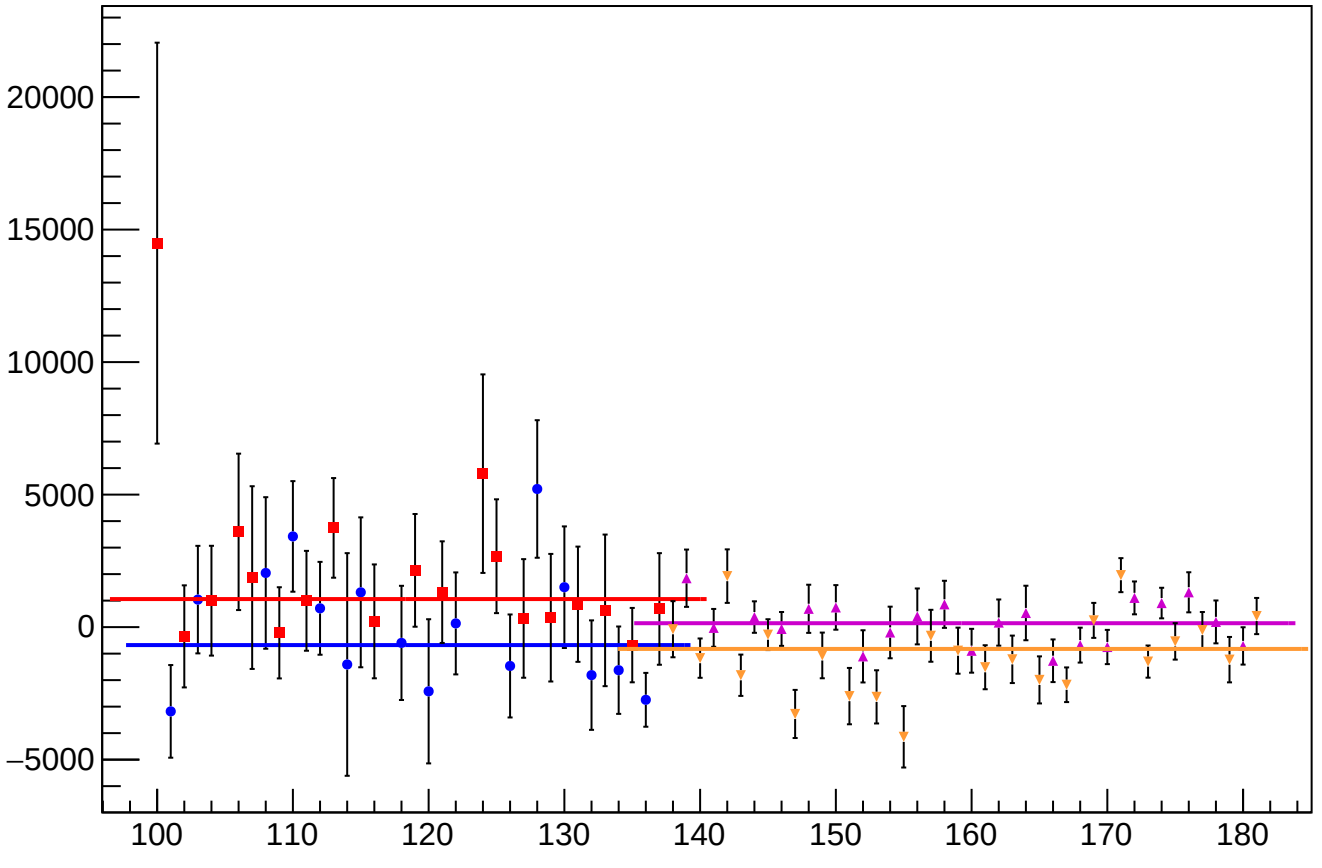
Left: 76.230+/-0.009 $\chi^2$/NDF: 900604.8/43

Right: 90.860+/-0.017 $\chi^2$/NDF: 1045922.9/34

In: 79.313+/-0.012 $\chi^2$/NDF:1088879.5/36

Out: 79.542+/-0.011 $\chi^2$/NDF:1416868.7/41

All: 79.429+/-0.008 $\chi^2$/NDF: 2505948.7/78




Right In: -677.381+/-486.480 $\chi^2$/NDF: 20.3/15

Left Out: -822.509+/-163.622 $\chi^2$/NDF:66.3/22

Right Out: 1058.761+/-496.350 $\chi^2$/NDF: 11.5/18

Left In: 147.722+/-167.022 $\chi^2$/NDF:22.4/20

Left: -347.369+/-116.882 $\chi^2$/NDF: 105.9/43

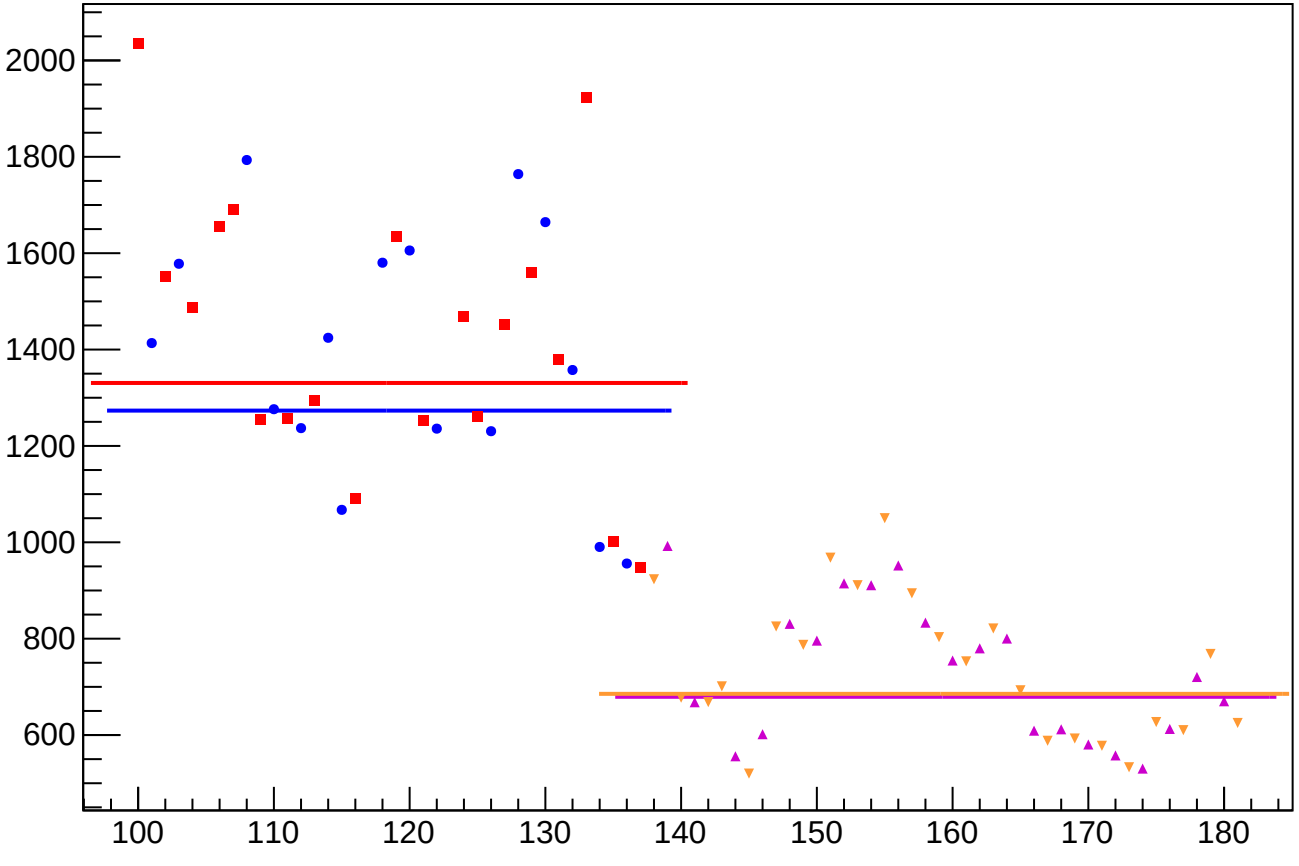
Right: 173.256+/-347.430 $\chi^2$/NDF: 38.0/34

In: 60.719+/-157.971 $\chi^2$/NDF:45.2/36

Out: -638.111+/-155.396 $\chi^2$/NDF:90.7/41

All: -294.437+/-110.781 $\chi^2$/NDF: 145.8/78

asym_sam_2468_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1273.324+/-0.344 $\chi^2$/NDF: 597520.6/15

Left Out: 685.507+/-0.116 $\chi^2$/NDF:1305953.5/22

Right Out: 1330.683+/-0.351 $\chi^2$/NDF: 470703.7/18

Left In: 679.402+/-0.118 $\chi^2$/NDF:1184492.9/20

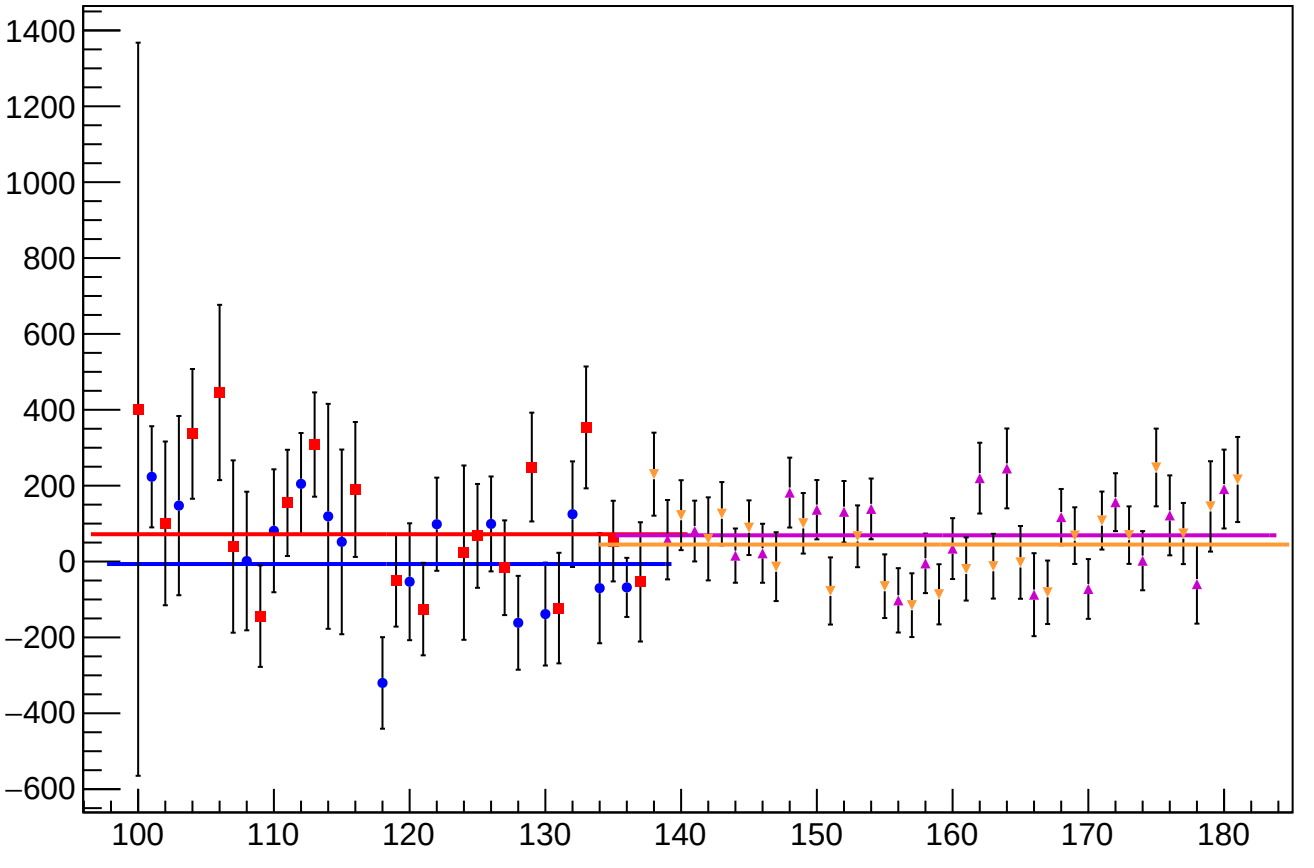
Left: 682.517+/-0.083 $\chi^2$/NDF: 2491810.1/43

Right: 1301.428+/-0.246 $\chi^2$/NDF: 1081847.0/34

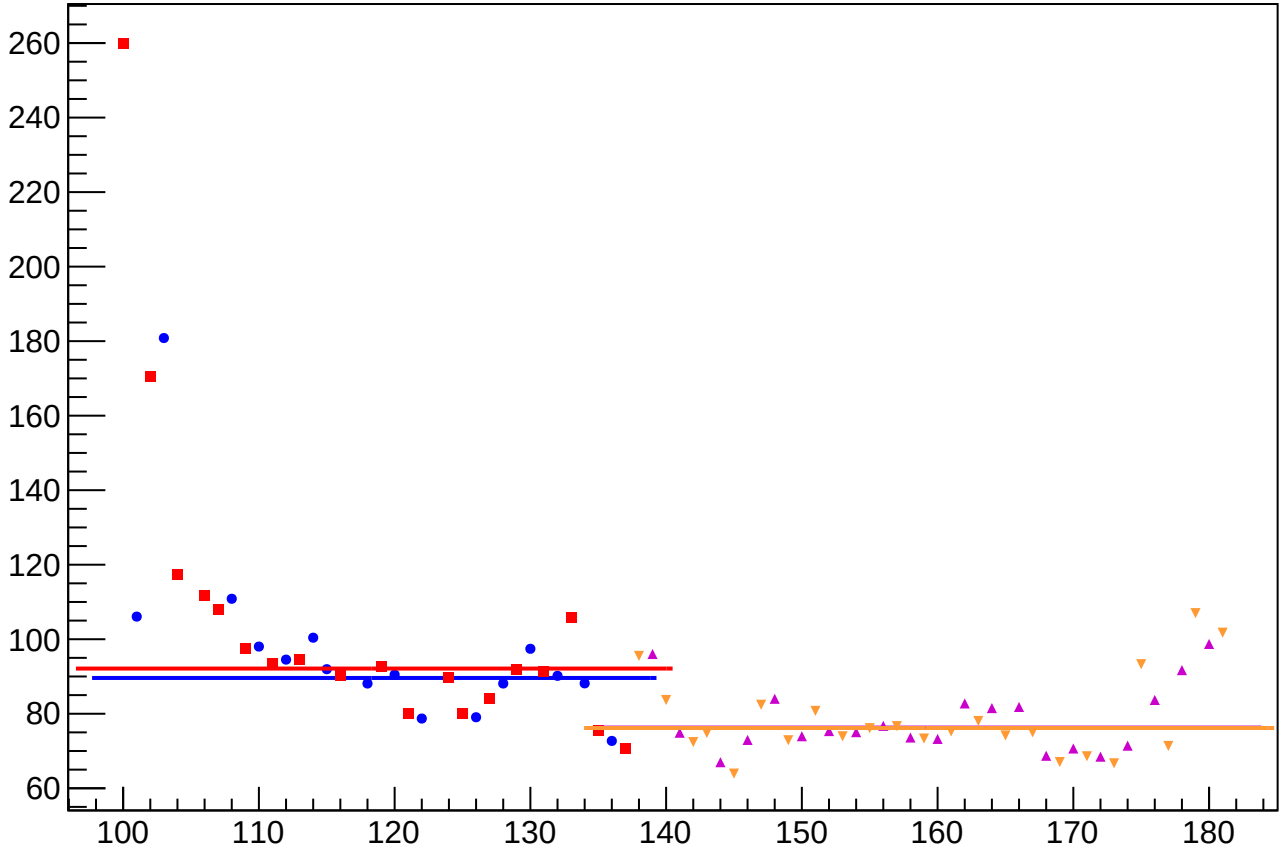
In: 742.028+/-0.112 $\chi^2$/NDF:4448669.0/36

Out: 748.746+/-0.110 $\chi^2$/NDF:4824610.0/41

All: 745.442+/-0.078 $\chi^2$/NDF: 9275117.3/78


cor_asym_sam_2468_avg_mean vs Slug, Sign Corrected
1400
1200
1000
800
600
400
200
0
−200
−400
−600
100
110
120
130
140
150
160
170
180
Right In: -6.568+/-34.286 χ²/NDF: 18.9/15
Left Out: 44.792+/-18.027 χ²/NDF:27.4/22
Right Out: 71.981+/-34.885 χ²/NDF: 22.8/18
Left In: 69.130+/-18.577 χ²/NDF:26.0/20
Left: 56.595+/-12.937 χ²/NDF: 54.3/43
Right: 32.026+/-24.453 χ²/NDF: 44.3/34
In: 51.950+/-16.334 χ²/NDF:48.7/36
Out: 50.522+/-16.015 χ²/NDF:50.7/41
All: 51.222+/-11.435 χ²/NDF: 99.4/78

# cor_asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498384.4/15

Left Out: 76.172+/-0.013 $\chi^2$/NDF:543143.9/22

Right Out: 92.129+/-0.025 $\chi^2$/NDF: 540308.7/18

Left In: 76.291+/-0.013 $\chi^2$/NDF:357418.1/20

Left: 76.230+/-0.009 $\chi^2$/NDF: 900604.8/43

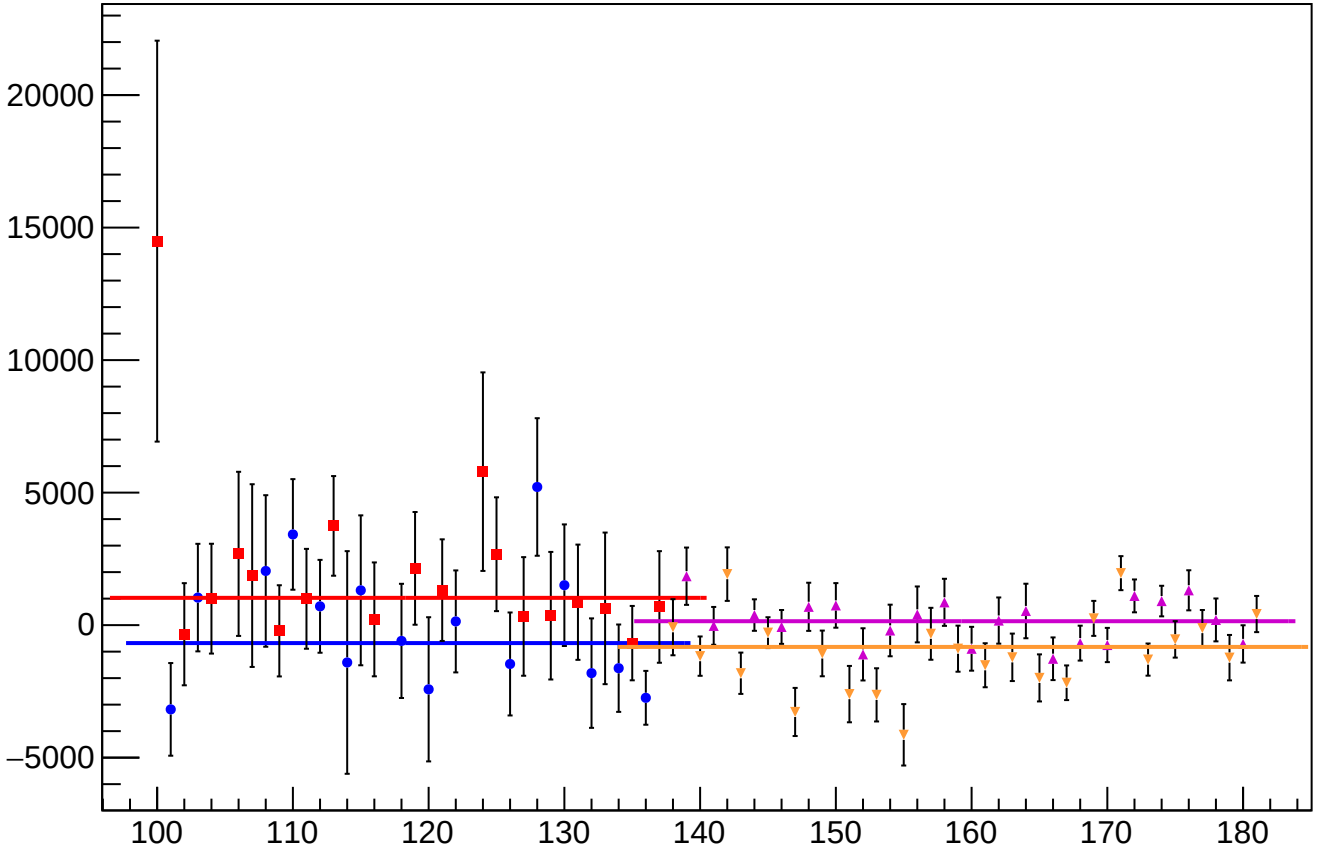
Right: 90.845+/-0.017 $\chi^2$/NDF: 1044025.4/34

In: 79.313+/-0.012 $\chi^2$/NDF:1088883.0/36

Out: 79.535+/-0.011 $\chi^2$/NDF:1413756.6/41

All: 79.426+/-0.008 $\chi^2$/NDF: 2502828.0/78

asym_sam_2468_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -677.345+/-486.482 $\chi^2$/NDF: 20.3/15

Left Out: -822.503+/-163.622 $\chi^2$/NDF:66.3/22

Right Out: 1029.395+/-497.018 $\chi^2$/NDF: 11.0/18

Left In: 147.721+/-167.022 $\chi^2$/NDF:22.4/20

Left: -347.367+/-116.882 $\chi^2$/NDF: 105.9/43

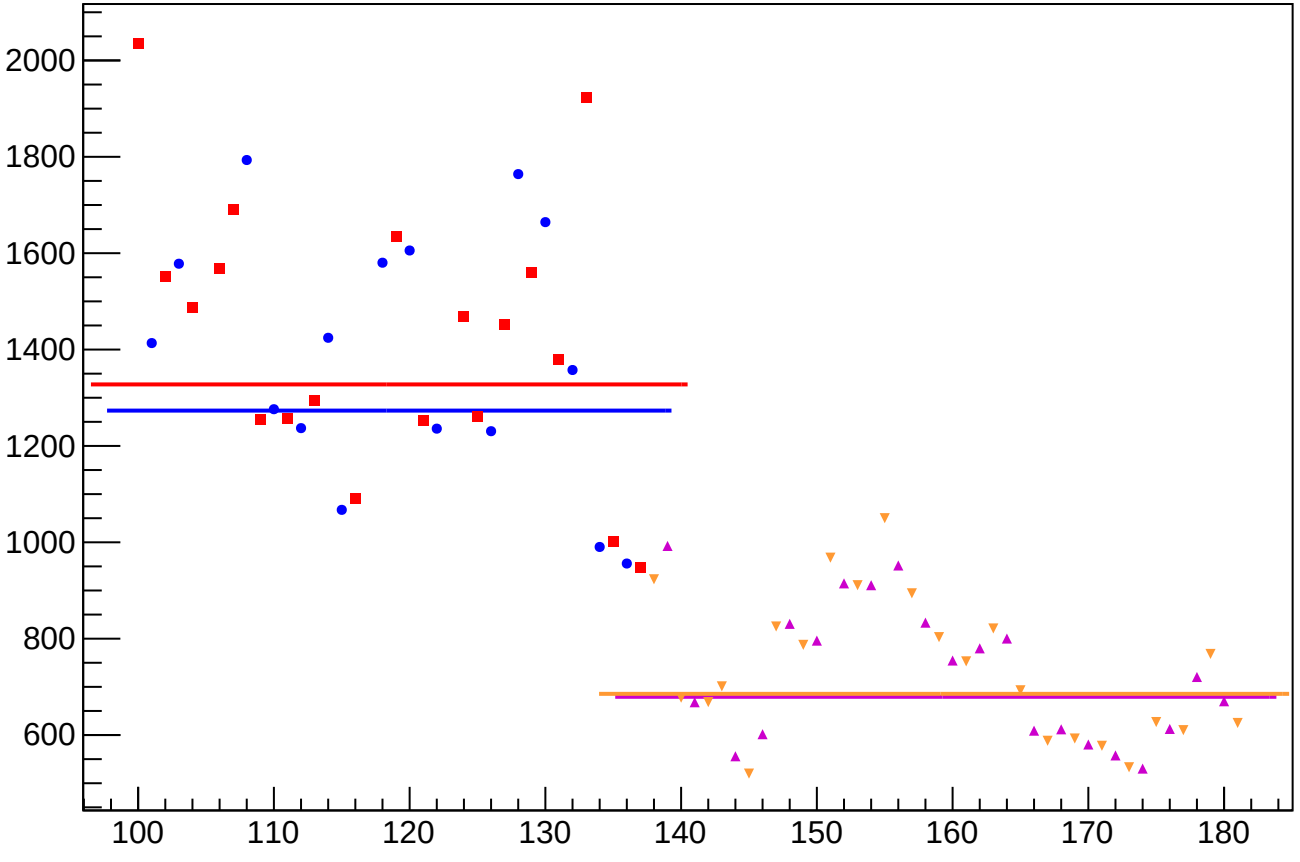
Right: 157.743+/-347.660 $\chi^2$/NDF: 37.3/34

In: 60.723+/-157.971 $\chi^2$/NDF:45.2/36

Out: -641.424+/-155.417 $\chi^2$/NDF:89.8/41

All: -296.073+/-110.788 $\chi^2$/NDF: 145.0/78

asym_sam_2468_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1273.327+/-0.344 $\chi^2$/NDF: 597547.8/15

Left Out: 685.507+/-0.116 $\chi^2$/NDF:1305956.5/22

Right Out: 1327.661+/-0.351 $\chi^2$/NDF: 458481.2/18

Left In: 679.402+/-0.118 $\chi^2$/NDF:1184491.0/20

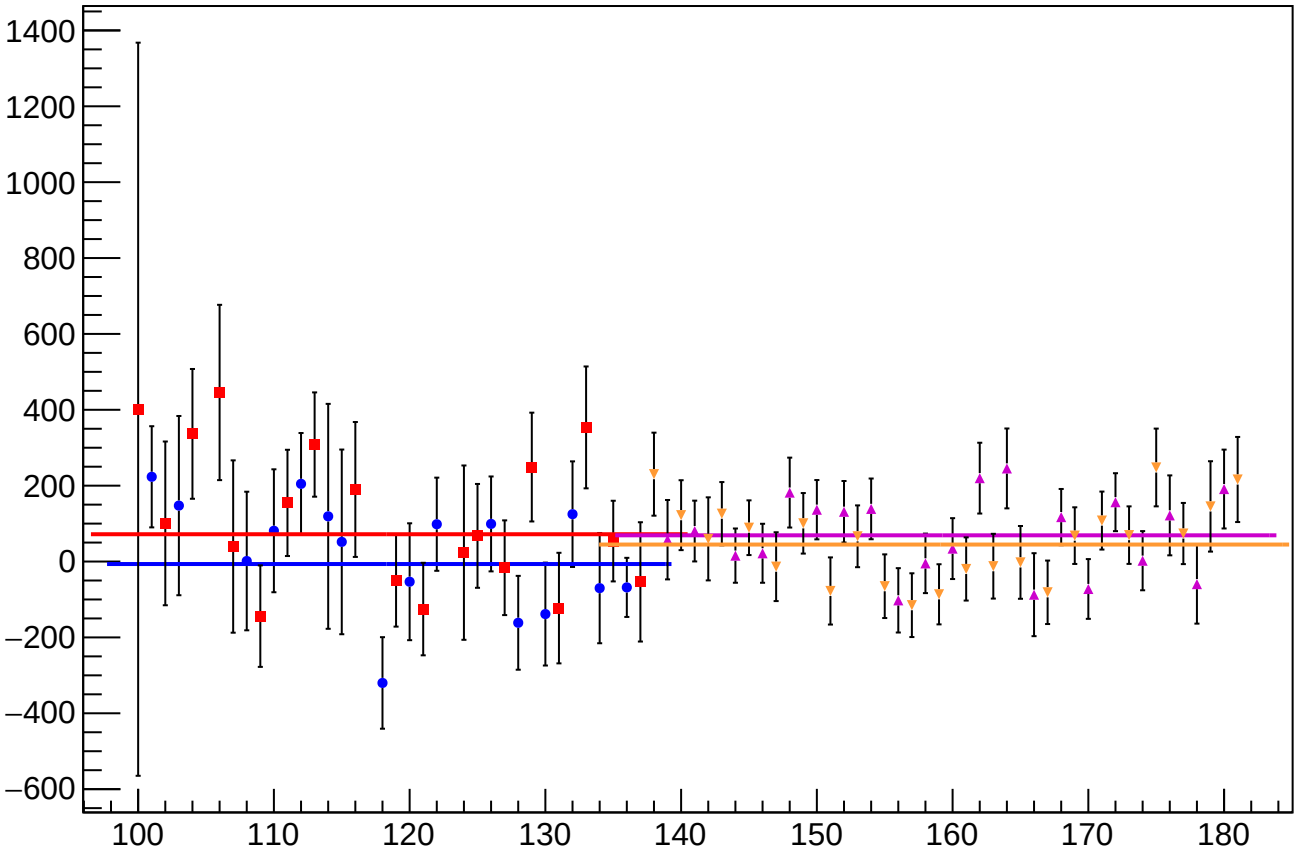
Left: 682.517+/-0.083 $\chi^2$/NDF: 2491811.0/43

Right: 1299.912+/-0.246 $\chi^2$/NDF: 1068235.5/34

In: 742.028+/-0.112 $\chi^2$/NDF:4448703.5/36

Out: 748.297+/-0.110 $\chi^2$/NDF:4776589.7/41

All: 745.213+/-0.078 $\chi^2$/NDF: 9226893.6/78




Right In: -6.568+/-34.286 $\chi^2$/NDF: 18.9/15

Left Out: 44.792+/-18.027 $\chi^2$/NDF:27.4/22

Right Out: 71.981+/-34.885 $\chi^2$/NDF: 22.8/18

Left In: 69.130+/-18.577 $\chi^2$/NDF:26.0/20

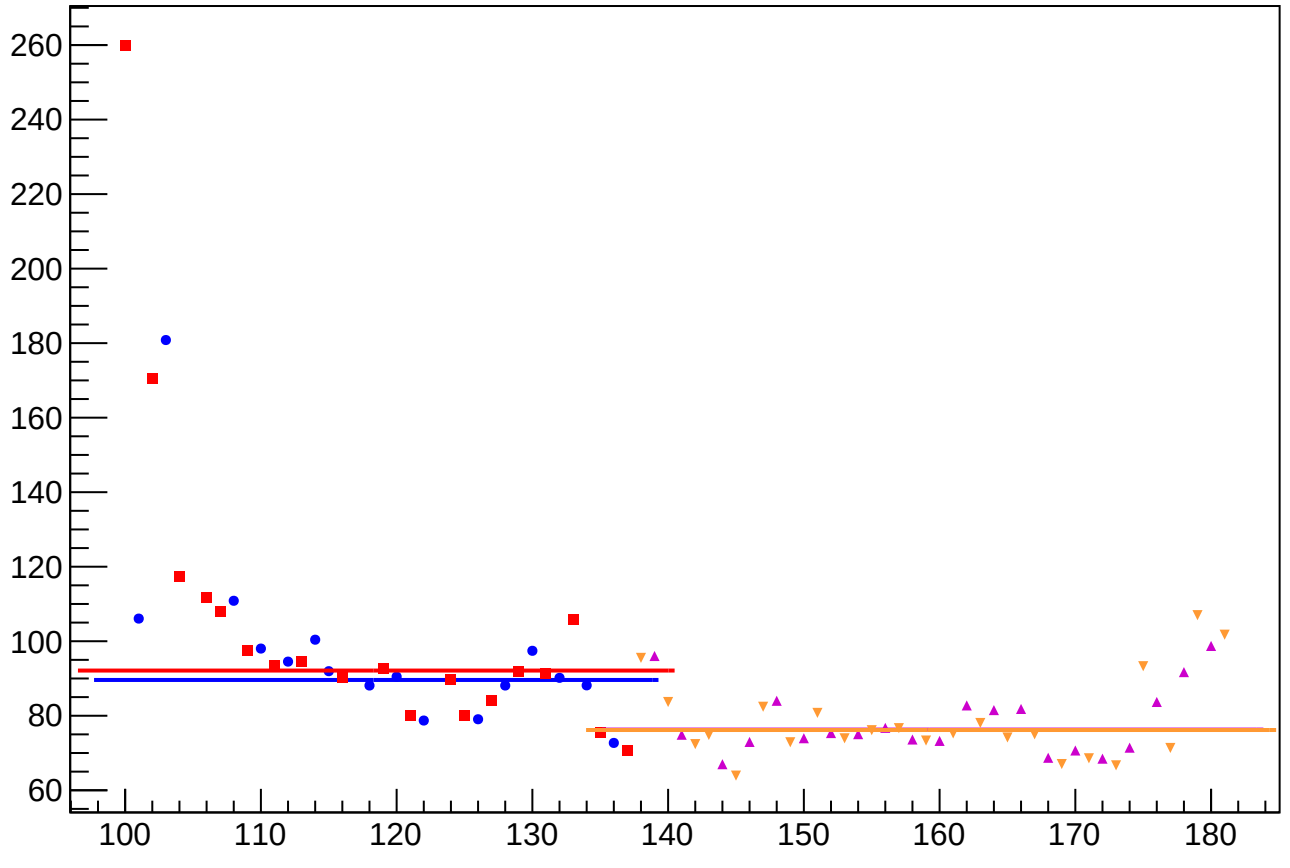
Left: 56.595+/-12.937 $\chi^2$/NDF: 54.3/43

Right: 32.026+/-24.453 $\chi^2$/NDF: 44.3/34

In: 51.950+/-16.334 $\chi^2$/NDF:48.7/36

Out: 50.522+/-16.015 $\chi^2$/NDF:50.7/41

All: 51.222+/-11.435 $\chi^2$/NDF: 99.4/78




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498384.4/15

Left Out: 76.172+/-0.013 $\chi^2$/NDF:543143.9/22

Right Out: 92.129+/-0.025 $\chi^2$/NDF: 540308.7/18

Left In: 76.291+/-0.013 $\chi^2$/NDF:357418.1/20

Left: 76.230+/-0.009 $\chi^2$/NDF: 900604.8/43

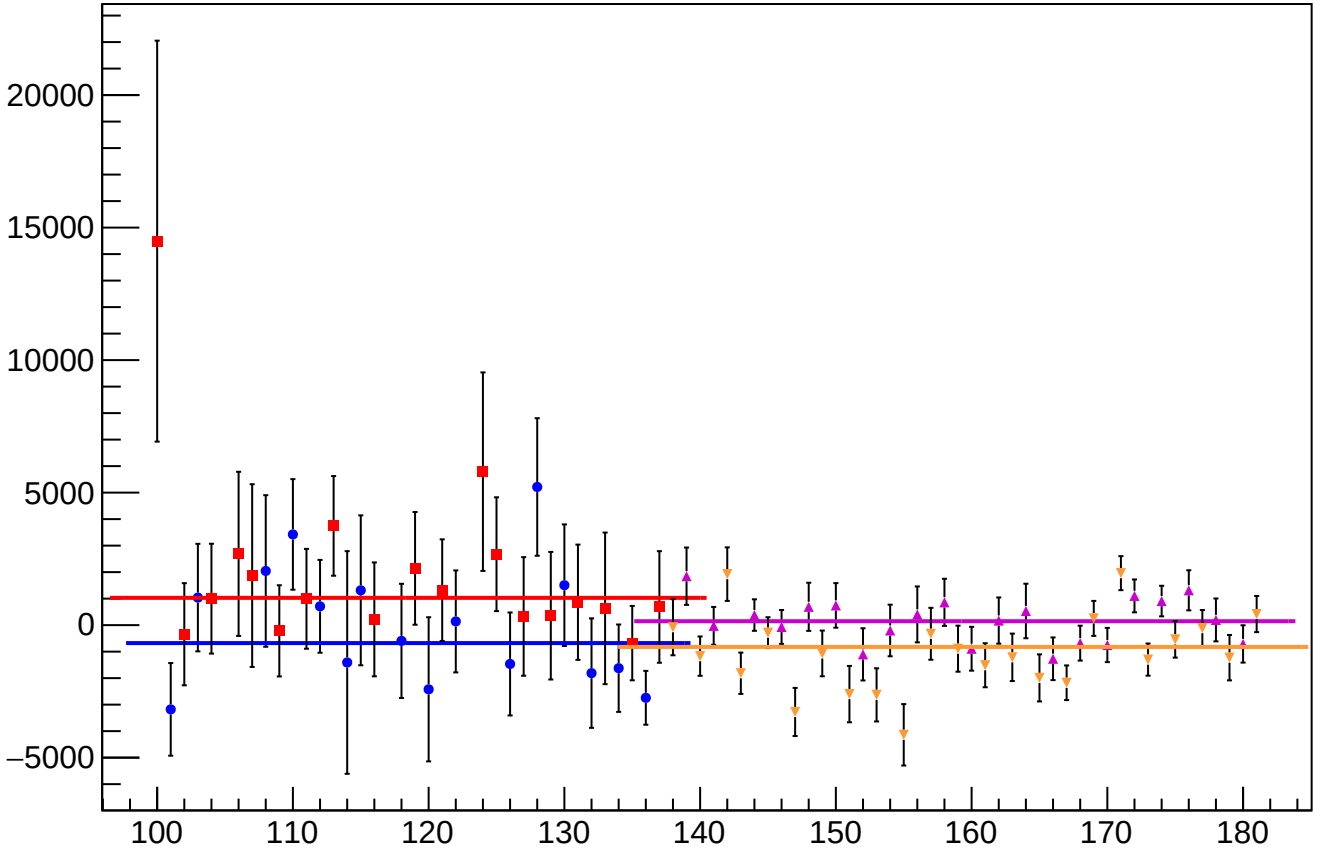
Right: 90.845+/-0.017 $\chi^2$/NDF: 1044025.4/34

In: 79.313+/-0.012 $\chi^2$/NDF:1088883.0/36

Out: 79.535+/-0.011 $\chi^2$/NDF:1413756.6/41

All: 79.426+/-0.008 $\chi^2$/NDF: 2502828.0/78

asym_sam_2468_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -677.345+/-486.482 $\chi^2$/NDF: 20.3/15

Left Out: -822.503+/-163.622 $\chi^2$/NDF:66.3/22

Right Out: 1029.395+/-497.018 $\chi^2$/NDF: 11.0/18

Left In: 147.721+/-167.022 $\chi^2$/NDF:22.4/20

Left: -347.367+/-116.882 $\chi^2$/NDF: 105.9/43

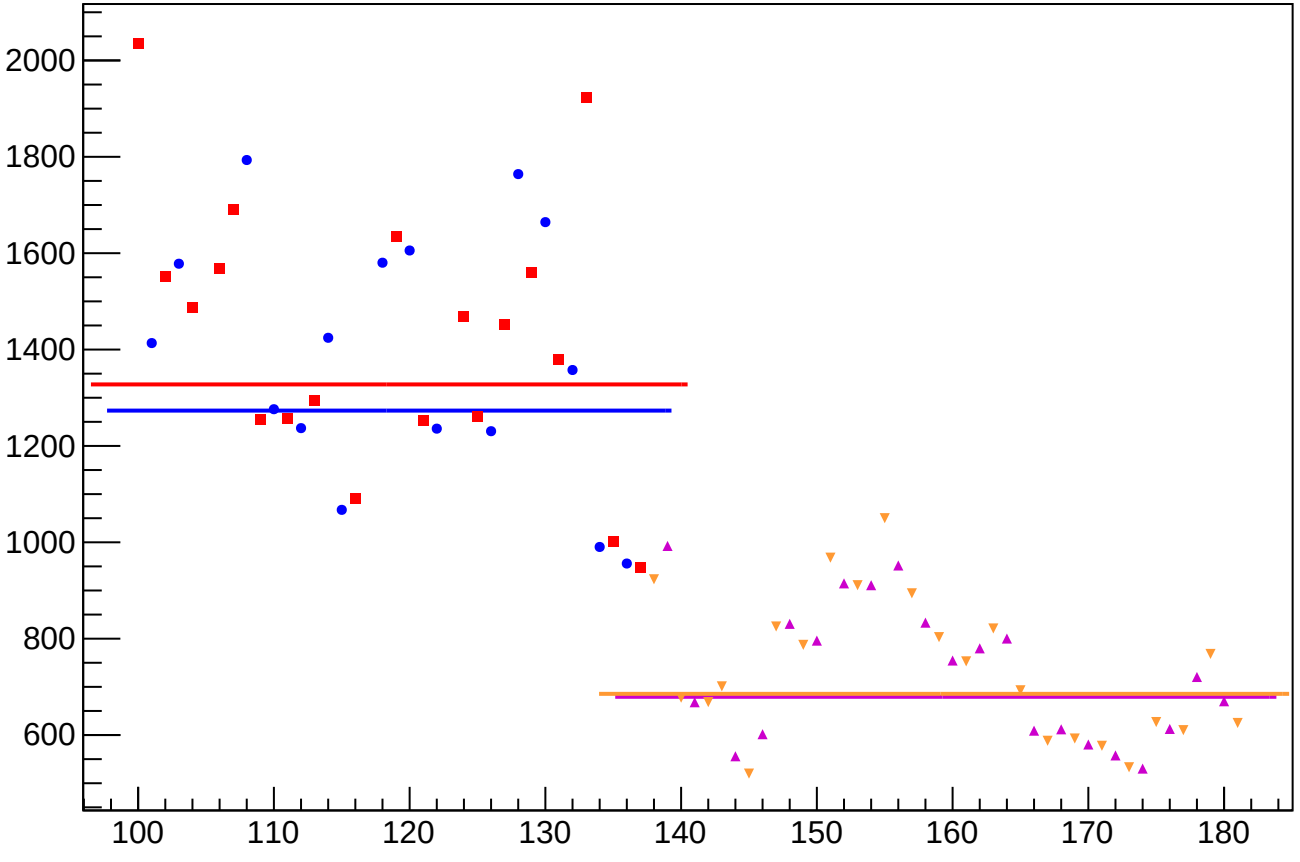
Right: 157.743+/-347.660 $\chi^2$/NDF: 37.3/34

In: 60.723+/-157.971 $\chi^2$/NDF:45.2/36

Out: -641.424+/-155.417 $\chi^2$/NDF:89.8/41

All: -296.073+/-110.788 $\chi^2$/NDF: 145.0/78

asym_sam_2468_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1273.327+/-0.344 $\chi^2$/NDF: 597547.8/15

Left Out: 685.507+/-0.116 $\chi^2$/NDF:1305956.5/22

Right Out: 1327.661+/-0.351 $\chi^2$/NDF: 458481.2/18

Left In: 679.402+/-0.118 $\chi^2$/NDF:1184491.0/20

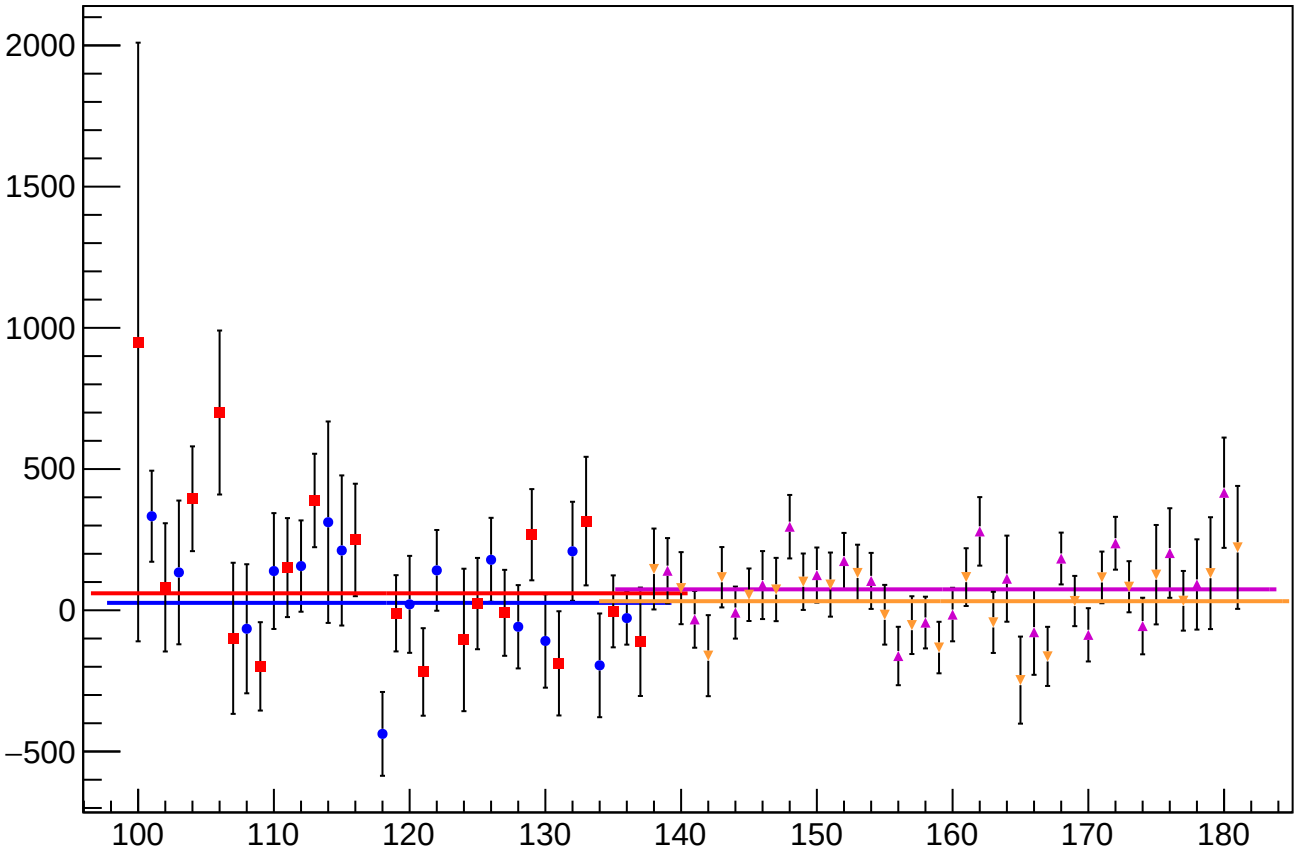
Left: 682.517+/-0.083 $\chi^2$/NDF: 2491811.0/43

Right: 1299.912+/-0.246 $\chi^2$/NDF: 1068235.5/34

In: 742.028+/-0.112 $\chi^2$/NDF:4448703.5/36

Out: 748.297+/-0.110 $\chi^2$/NDF:4776589.7/41

All: 745.213+/-0.078 $\chi^2$/NDF: 9226893.6/78




Right In: 26.251+/-41.220 $\chi^2$/NDF: 21.4/15

Left Out: 32.133+/-23.094 $\chi^2$/NDF:19.7/22

Right Out: 60.119+/-41.528 $\chi^2$/NDF: 27.0/18

Left In: 74.142+/-23.720 $\chi^2$/NDF:32.0/20

Left: 52.575+/-16.547 $\chi^2$/NDF: 53.3/43

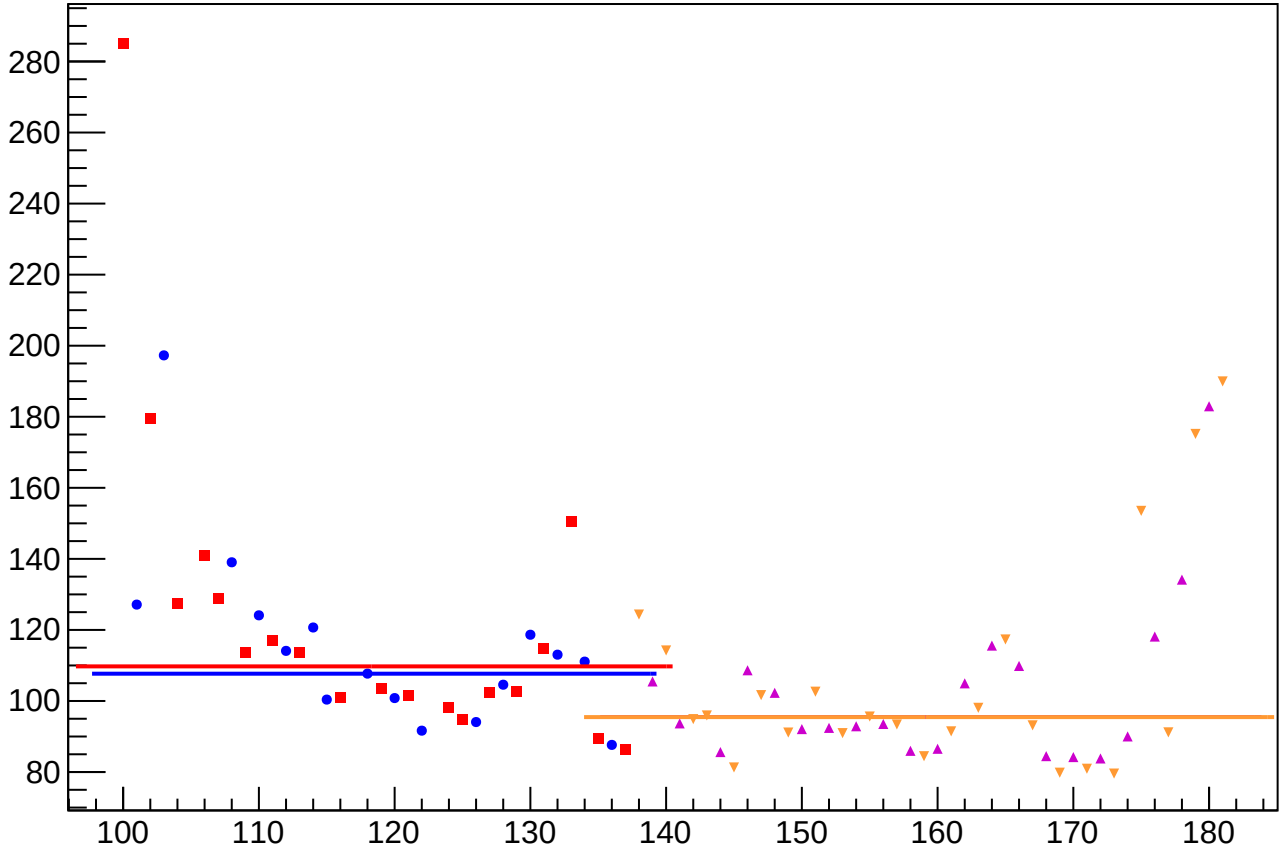
Right: 43.059+/-29.255 $\chi^2$/NDF: 48.7/34

In: 62.228+/-20.559 $\chi^2$/NDF:54.4/36

Out: 38.744+/-20.183 $\chi^2$/NDF:47.0/41

All: 50.269+/-14.403 $\chi^2$/NDF: 102.1/78

# dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 107.680+/-0.029 $\chi^2$/NDF: 483125.6/15

Left Out: 95.464+/-0.016 $\chi^2$/NDF:1363881.7/22

Right Out: 109.739+/-0.029 $\chi^2$/NDF: 491787.3/18

Left In: 95.492+/-0.017 $\chi^2$/NDF:834309.0/20

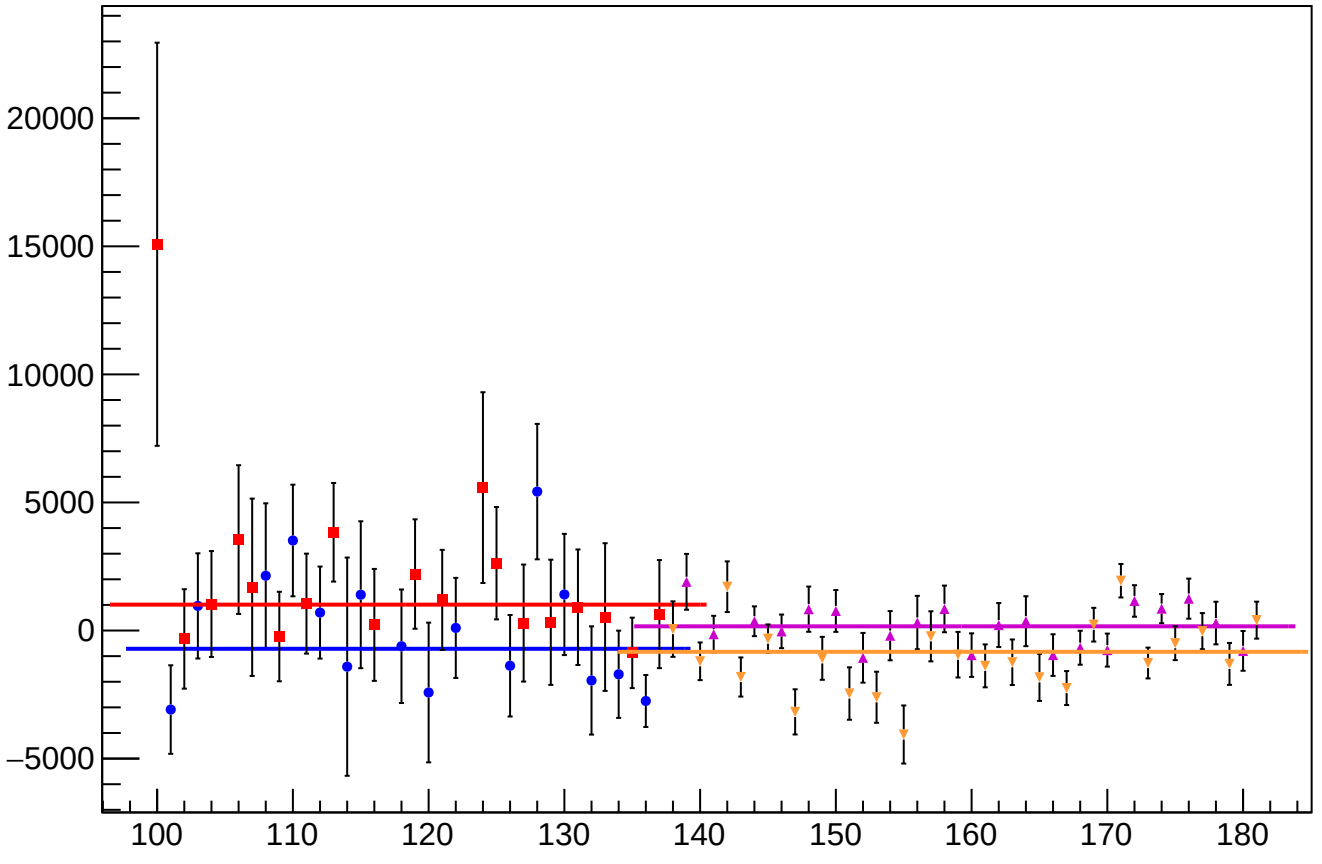
Left: 95.478+/-0.012 $\chi^2$/NDF: 2198192.1/43

Right: 108.702+/-0.021 $\chi^2$/NDF: 977390.9/34

In: 98.524+/-0.015 $\chi^2$/NDF:1448784.1/36

Out: 98.836+/-0.014 $\chi^2$/NDF:2036188.1/41

All: 98.683+/-0.010 $\chi^2$/NDF: 3485205.8/78




Right In: -712.887+/-493.253 $\chi^2$/NDF: 20.1/15

Left Out: -831.196+/-162.913 $\chi^2$/NDF:63.7/22

Right Out: 1010.557+/-501.374 $\chi^2$/NDF: 11.8/18

Left In: 164.515+/-167.650 $\chi^2$/NDF:21.3/20

Left: -347.607+/-116.836 $\chi^2$/NDF: 103.1/43

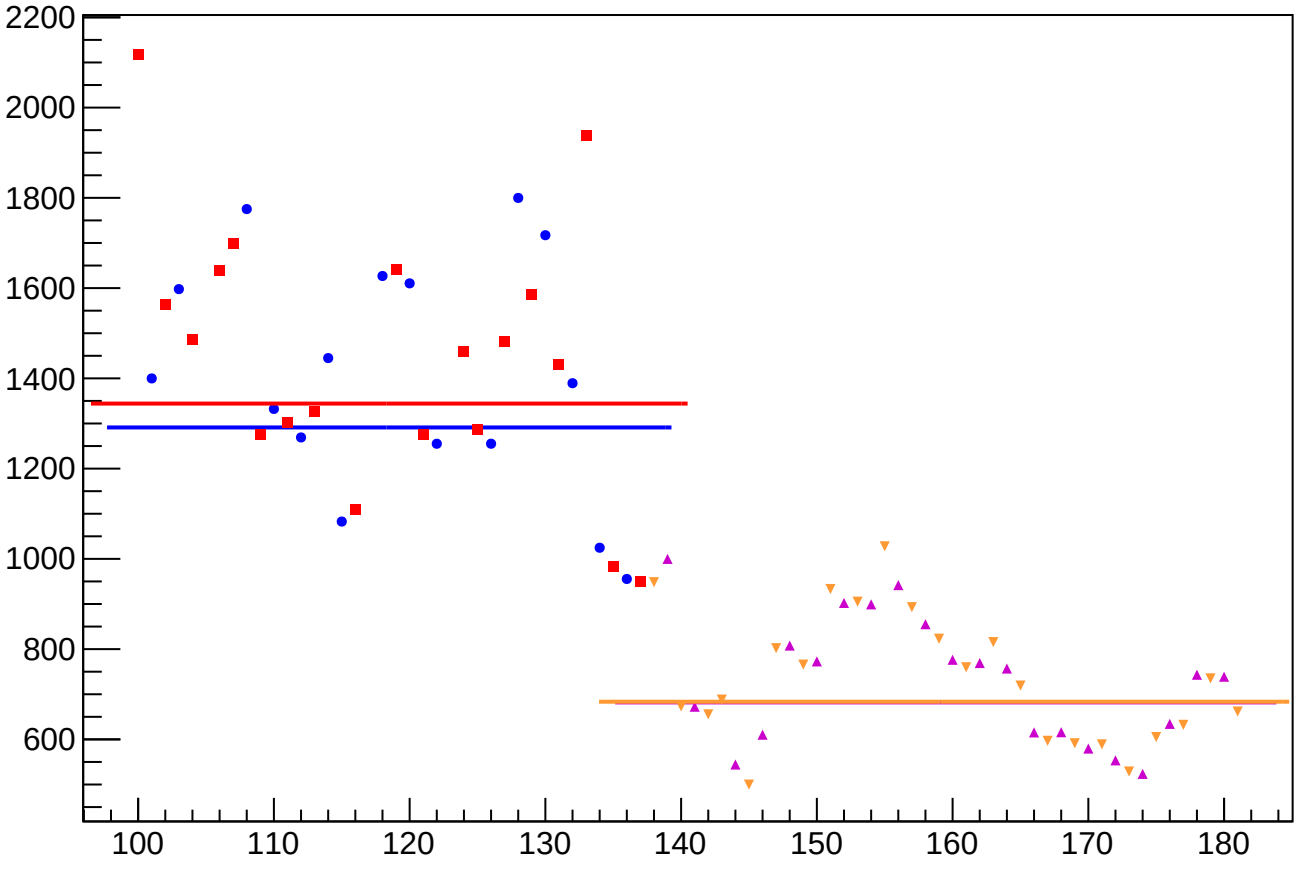
Right: 134.764+/-351.618 $\chi^2$/NDF: 37.9/34

In: 73.651+/-158.732 $\chi^2$/NDF:44.2/36

Out: -655.310+/-154.939 $\chi^2$/NDF:87.7/41

All: -299.644+/-110.875 $\chi^2$/NDF: 142.7/78

asym_sam_2468_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1291.223+/-0.349 $\chi^2$/NDF: 610897.3/15

Left Out: 683.469+/-0.115 $\chi^2$/NDF:1297500.8/22

Right Out: 1344.118+/-0.355 $\chi^2$/NDF: 490963.7/18

Left In: 681.913+/-0.119 $\chi^2$/NDF:1185912.0/20

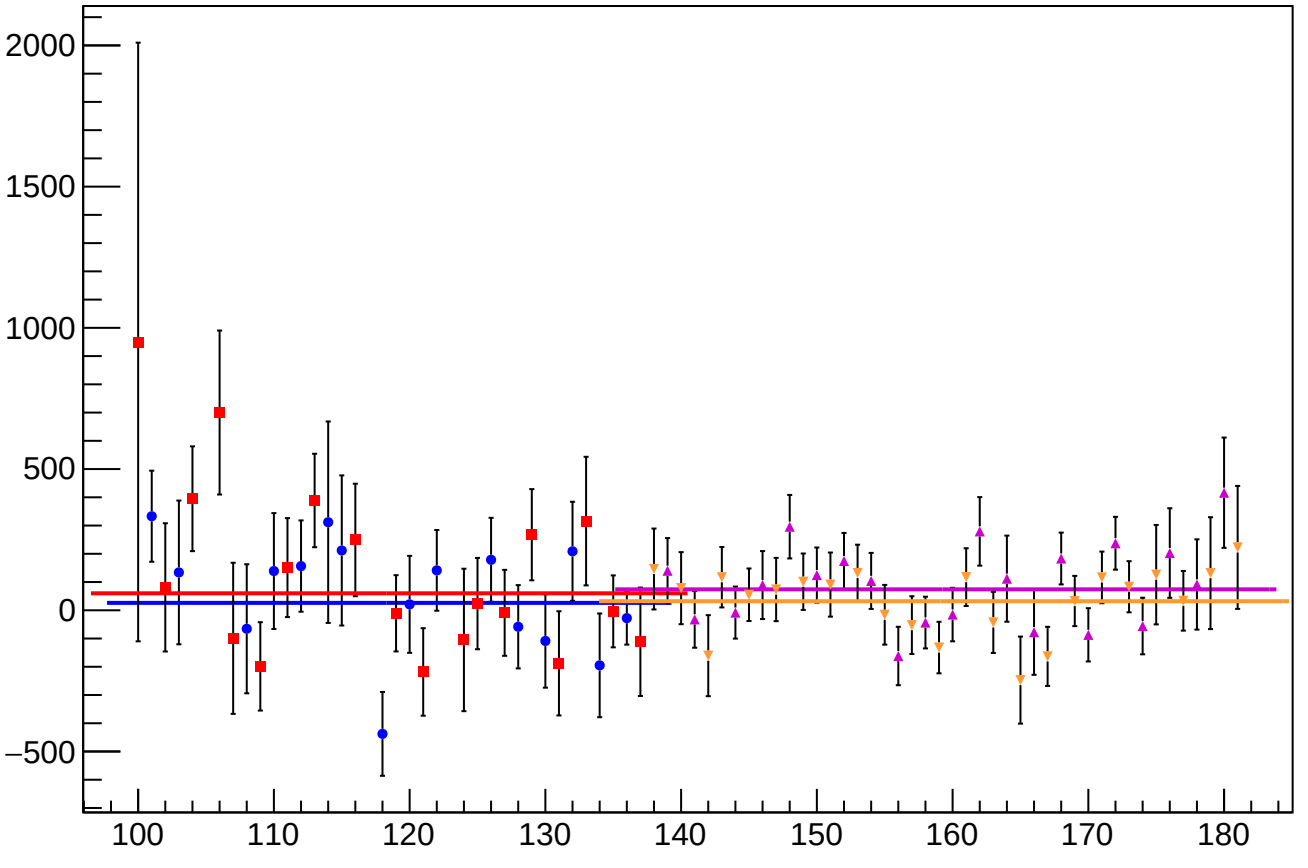
Left: 682.714+/-0.083 $\chi^2$/NDF: 2483501.3/43

Right: 1317.239+/-0.249 $\chi^2$/NDF: 1113173.0/34

In: 745.014+/-0.112 $\chi^2$/NDF:4532632.7/36

Out: 746.560+/-0.110 $\chi^2$/NDF:4929385.7/41

All: 745.806+/-0.078 $\chi^2$/NDF: 9462115.7/78




Right In: 26.252+/-41.219 $\chi^2$/NDF: 21.4/15

Left Out: 32.134+/-23.094 $\chi^2$/NDF:19.7/22

Right Out: 60.117+/-41.528 $\chi^2$/NDF: 27.0/18

Left In: 74.141+/-23.721 $\chi^2$/NDF:32.0/20

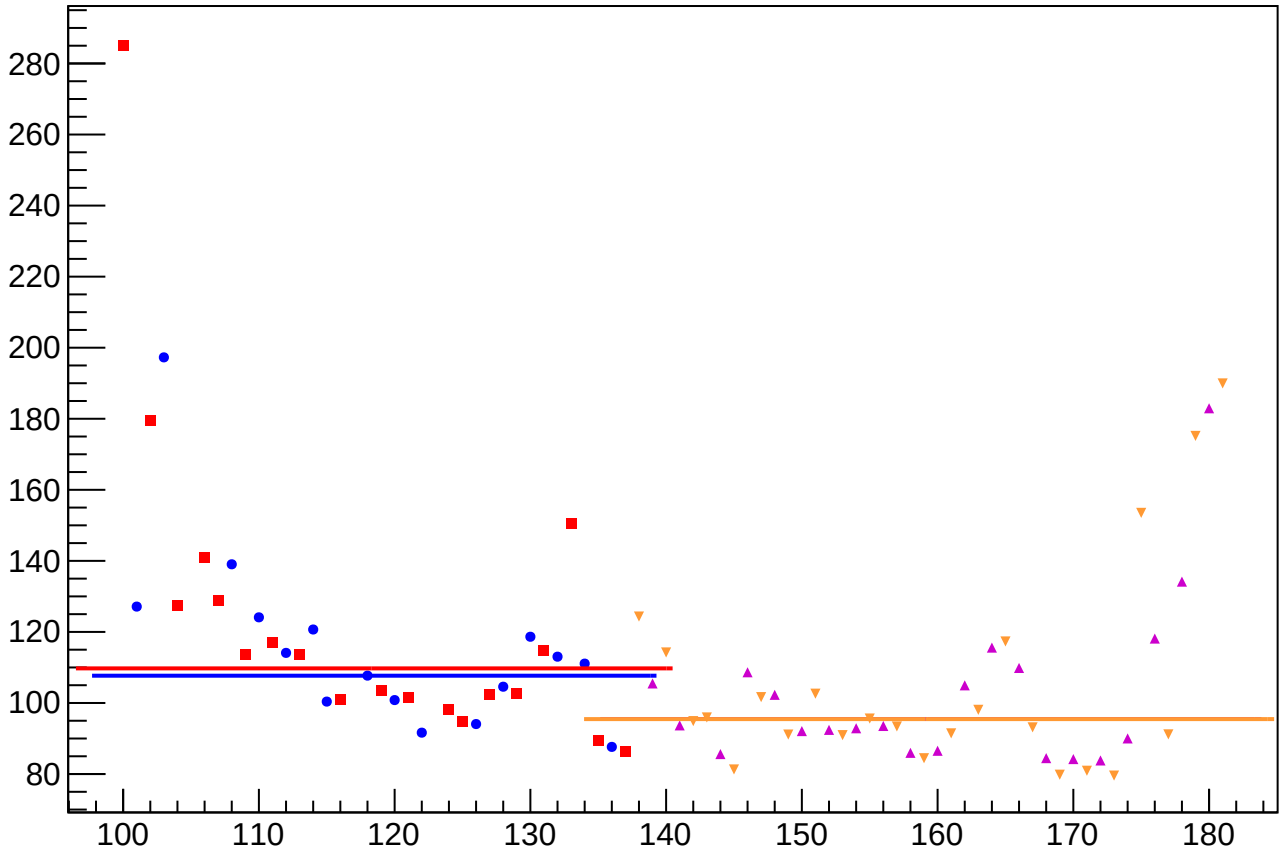
Left: 52.575+/-16.547 $\chi^2$/NDF: 53.3/43

Right: 43.058+/-29.255 $\chi^2$/NDF: 48.7/34

In: 62.227+/-20.559 $\chi^2$/NDF:54.4/36

Out: 38.744+/-20.183 $\chi^2$/NDF:47.0/41

All: 50.268+/-14.403 $\chi^2$/NDF: 102.1/78




Right In: 107.679+/-0.029 $\chi^2$/NDF: 483112.2/15

Left Out: 95.464+/-0.016 $\chi^2$/NDF:1363882.9/22

Right Out: 109.739+/-0.029 $\chi^2$/NDF: 491784.5/18

Left In: 95.492+/-0.017 $\chi^2$/NDF:834293.8/20

Left: 95.478+/-0.012 $\chi^2$/NDF: 2198178.2/43

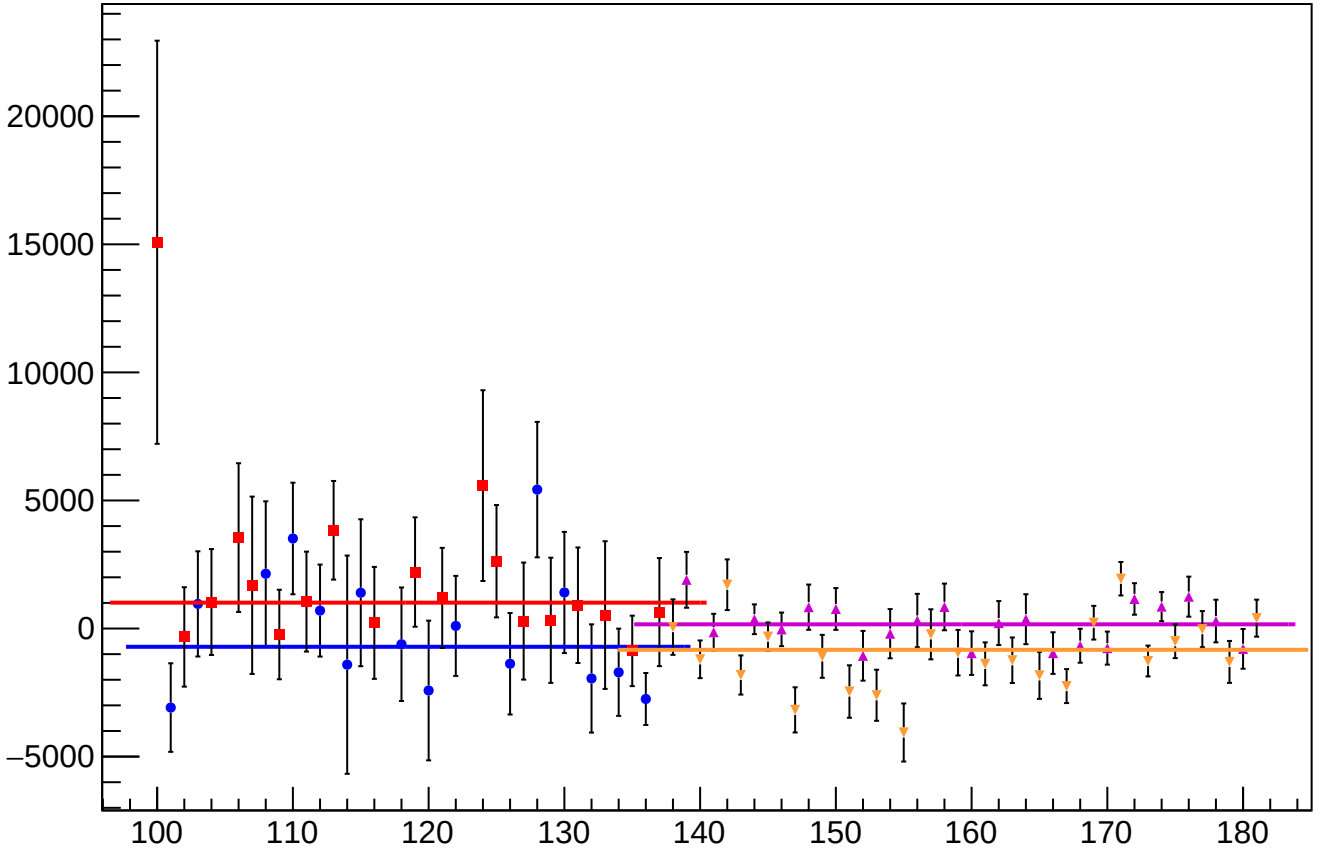
Right: 108.701+/-0.021 $\chi^2$/NDF: 977375.0/34

In: 98.524+/-0.015 $\chi^2$/NDF:1448734.2/36

Out: 98.836+/-0.014 $\chi^2$/NDF:2036164.5/41

All: 98.683+/-0.010 $\chi^2$/NDF: 3485132.4/78

asym_sam_2468_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -712.881+/-493.252 $\chi^2$/NDF: 20.1/15

Left Out: -831.194+/-162.913 $\chi^2$/NDF:63.7/22

Right Out: 1010.556+/-501.373 $\chi^2$/NDF: 11.8/18

Left In: 164.514+/-167.650 $\chi^2$/NDF:21.3/20

Left: -347.607+/-116.836 $\chi^2$/NDF: 103.1/43

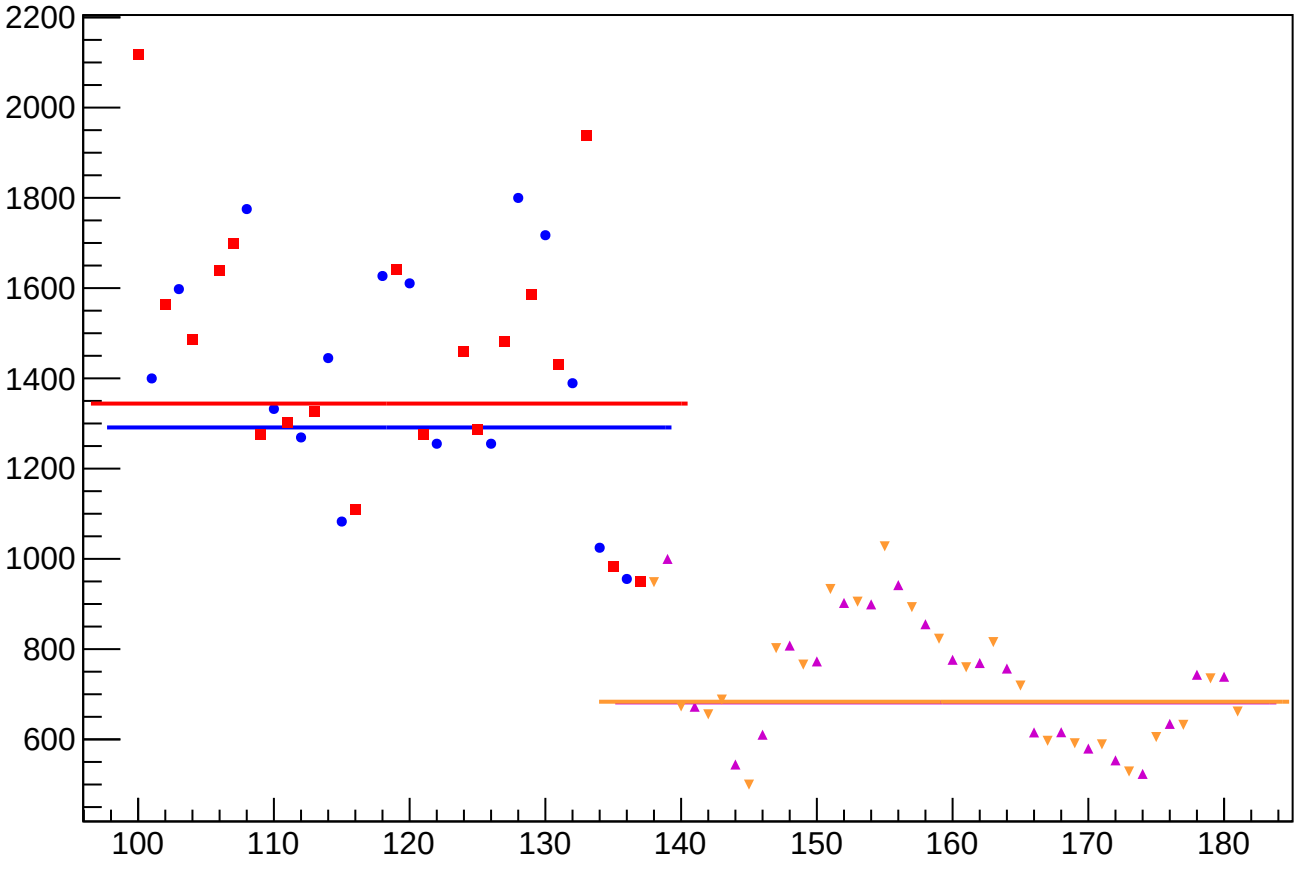
Right: 134.766+/-351.618 $\chi^2$/NDF: 37.9/34

In: 73.651+/-158.732 $\chi^2$/NDF:44.2/36

Out: -655.309+/-154.939 $\chi^2$/NDF:87.7/41

All: -299.644+/-110.875 $\chi^2$/NDF: 142.7/78

asym_sam_2468_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1291.220+/-0.349 $\chi^2$/NDF: 610894.9/15

Left Out: 683.468+/-0.115 $\chi^2$/NDF:1297506.8/22

Right Out: 1344.115+/-0.355 $\chi^2$/NDF: 490963.4/18

Left In: 681.912+/-0.119 $\chi^2$/NDF:1185913.5/20

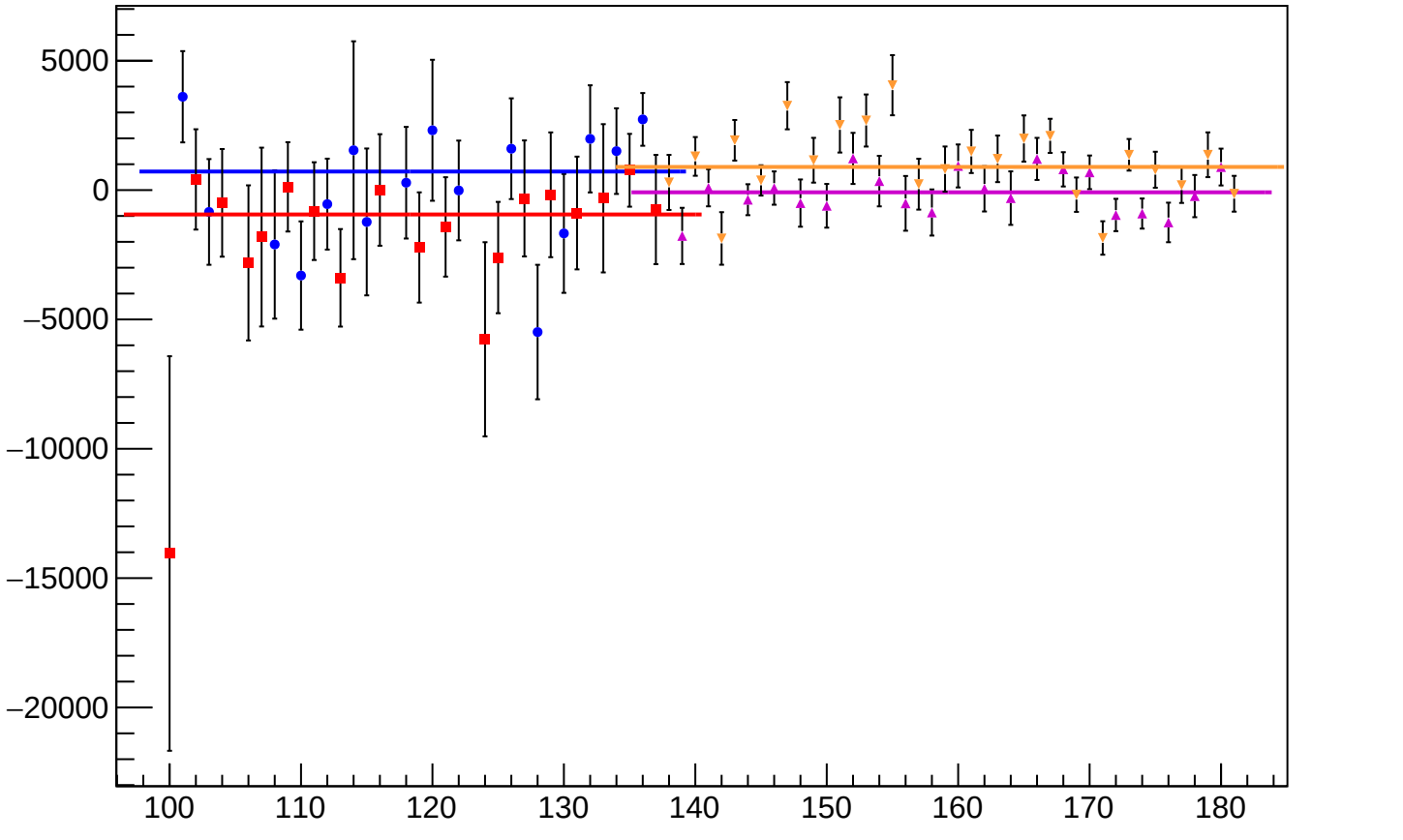
Left: 682.712+/-0.083 $\chi^2$/NDF: 2483509.0/43

Right: 1317.235+/-0.249 $\chi^2$/NDF: 1113170.2/34

In: 745.012+/-0.112 $\chi^2$/NDF:4532633.4/36

Out: 746.559+/-0.110 $\chi^2$/NDF:4929391.2/41

All: 745.804+/-0.078 $\chi^2$/NDF: 9462121.9/78




Right In: 717.617+/-488.239 $\chi^2$/NDF: 21.0/15

Left Out: 894.966+/-164.790 $\chi^2$/NDF:61.0/22

Right Out: -942.308+/-498.052 $\chi^2$/NDF: 10.6/18

Left In: -85.708+/-168.215 $\chi^2$/NDF:21.7/20

Left: 414.715+/-117.716 $\chi^2$/NDF: 100.1/43

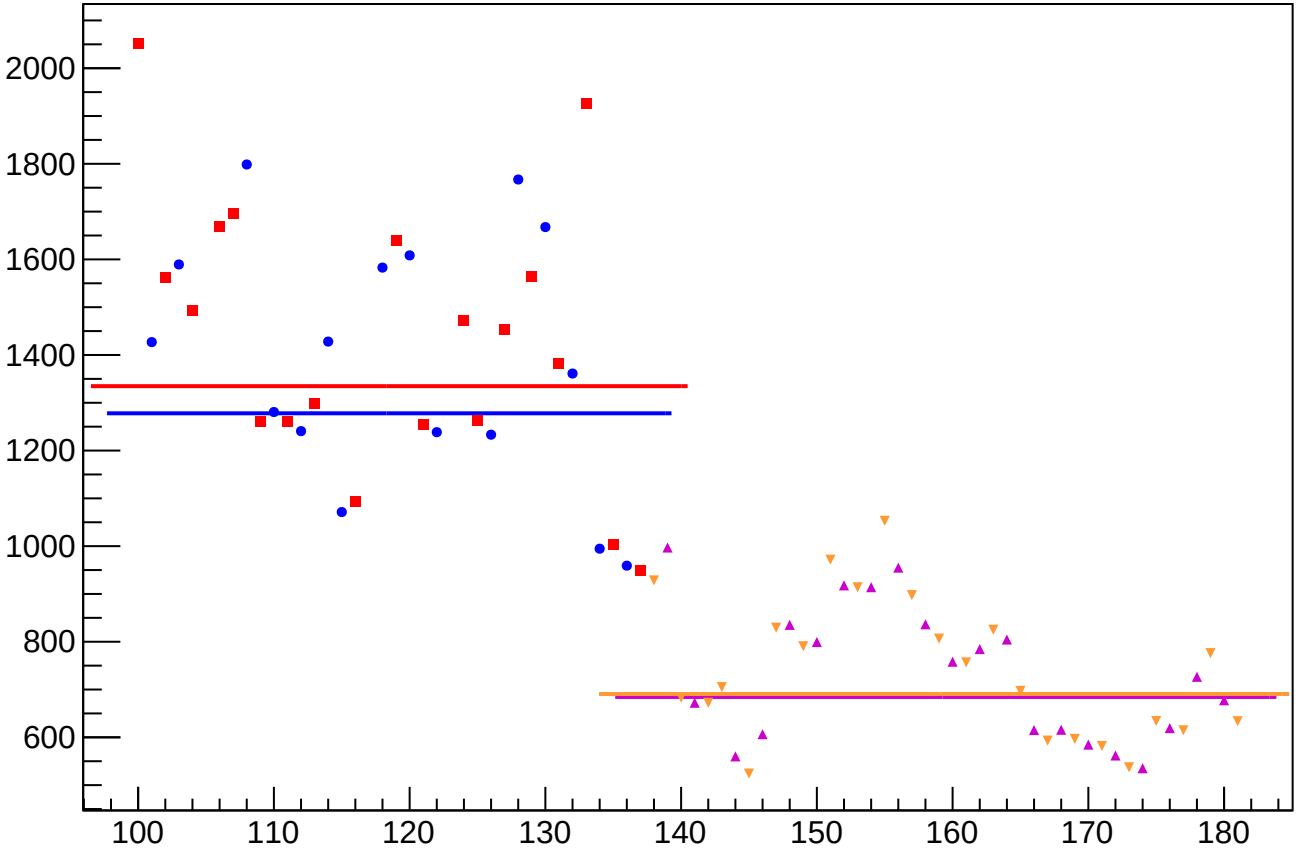
Right: -95.832+/-348.655 $\chi^2$/NDF: 37.2/34

In: -0.469+/-159.040 $\chi^2$/NDF:45.1/36

Out: 713.678+/-156.449 $\chi^2$/NDF:83.9/41

All: 362.471+/-111.531 $\chi^2$/NDF: 139.2/78

# asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 1277.979+/-0.345 $\chi^2$/NDF: 597666.8/15

Left Out: 690.616+/-0.117 $\chi^2$/NDF:1284775.8/22

Right Out: 1334.775+/-0.352 $\chi^2$/NDF: 471897.2/18

Left In: 684.465+/-0.119 $\chi^2$/NDF:1164344.3/20

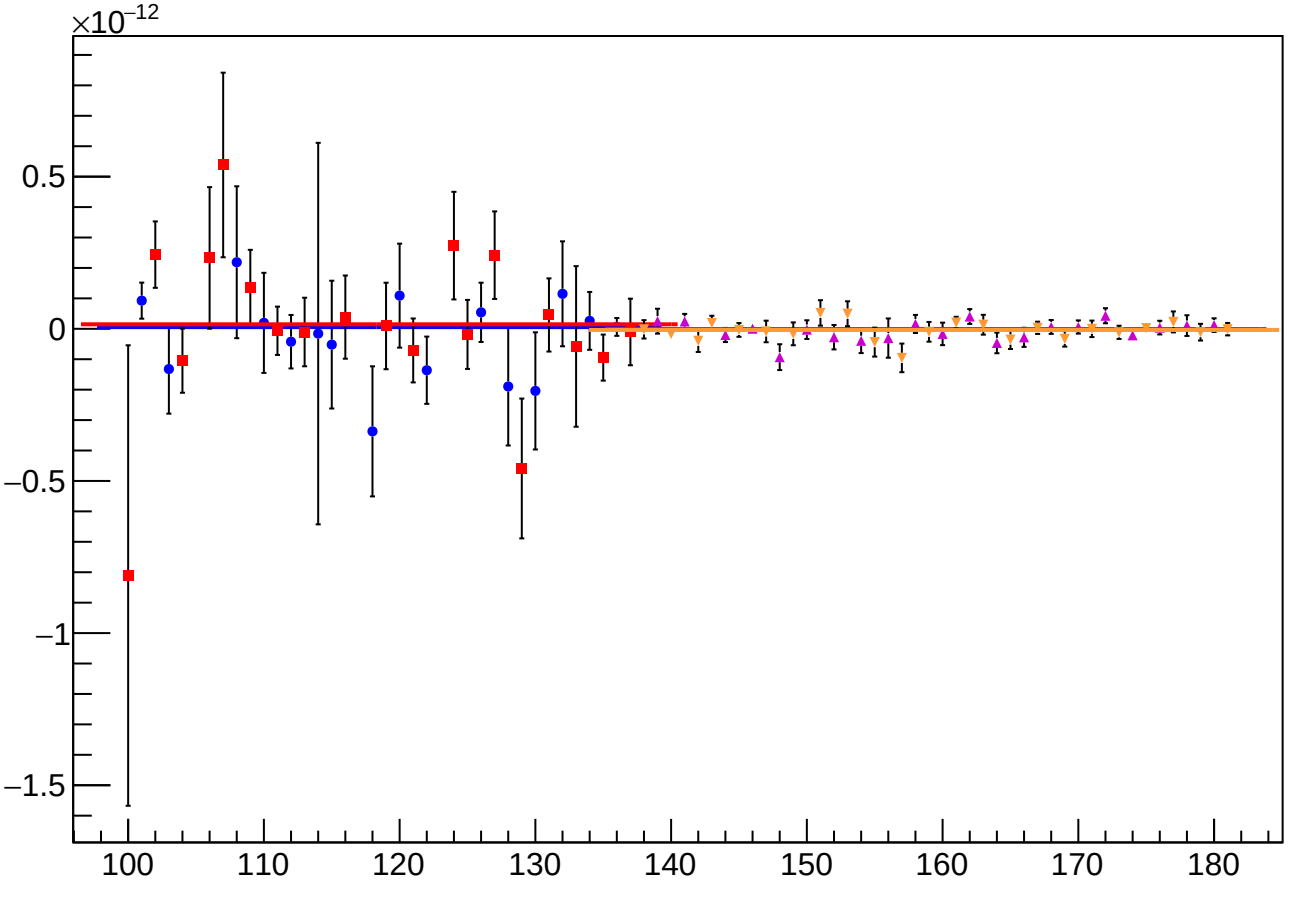
Left: 687.604+/-0.083 $\chi^2$/NDF: 2450484.5/43

Right: 1305.812+/-0.247 $\chi^2$/NDF: 1082827.2/34

In: 747.442+/-0.112 $\chi^2$/NDF:4403881.8/36

Out: 754.177+/-0.111 $\chi^2$/NDF:4772110.4/41

All: 750.865+/-0.079 $\chi^2$/NDF: 9177814.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.2/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.8/20

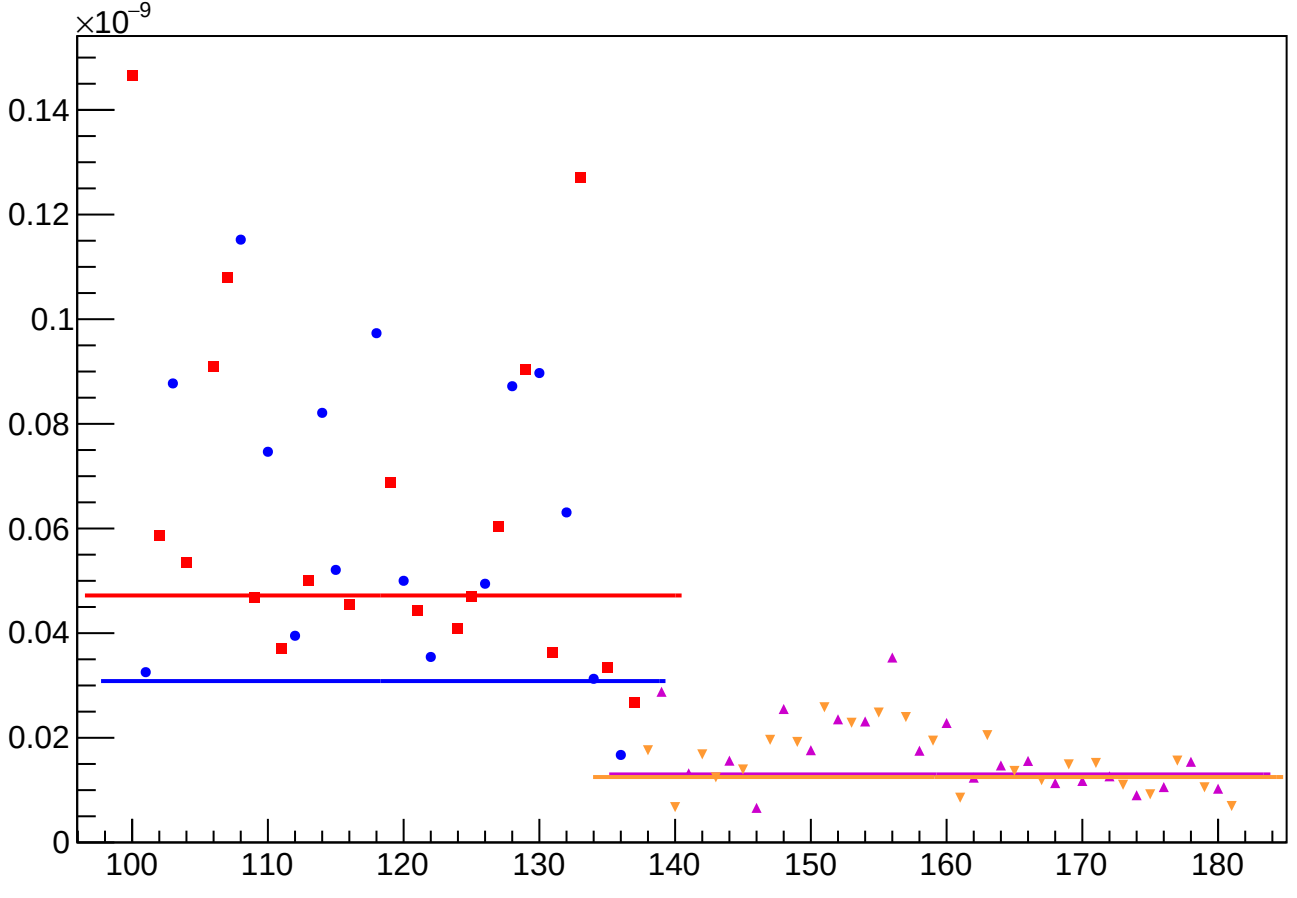
Left: -0.000+/-0.000 $\chi^2$/NDF: 36.1/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 35.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:31.5/36

Out: -0.000+/-0.000 $\chi^2$/NDF:40.4/41

All: -0.000+/-0.000 $\chi^2$/NDF: 72.0/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1912879.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1733767.1/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 722091.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1841477.8/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 3583675.5/43

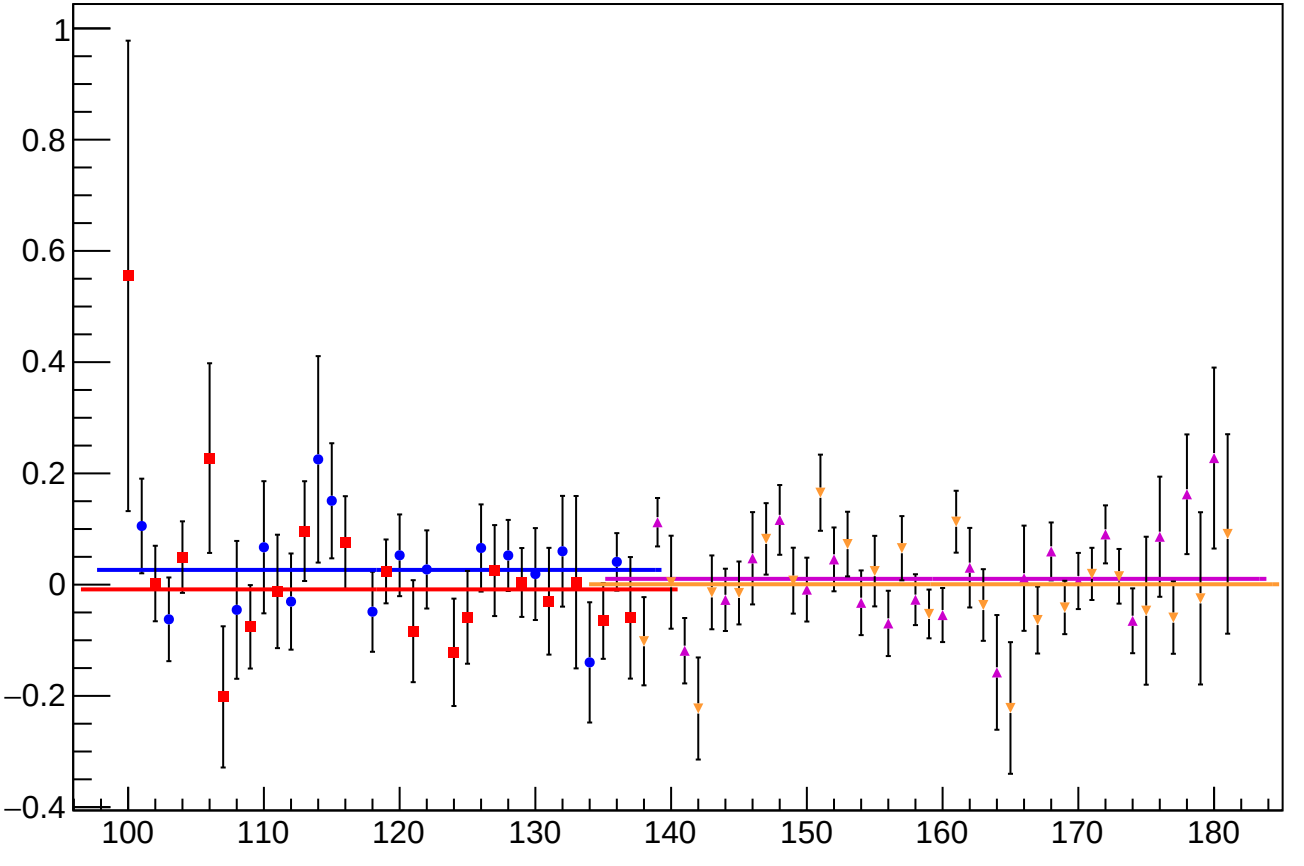
Right: 0.000+/-0.000 $\chi^2$/NDF: 3051679.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:5035531.1/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5298909.1/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10343030.4/78

asym_sam_2468_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: 0.001+/-0.013 $\chi^2$/NDF:30.9/22

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.010+/-0.013 $\chi^2$/NDF:31.1/20

Left: 0.006+/-0.009 $\chi^2$/NDF: 62.3/43

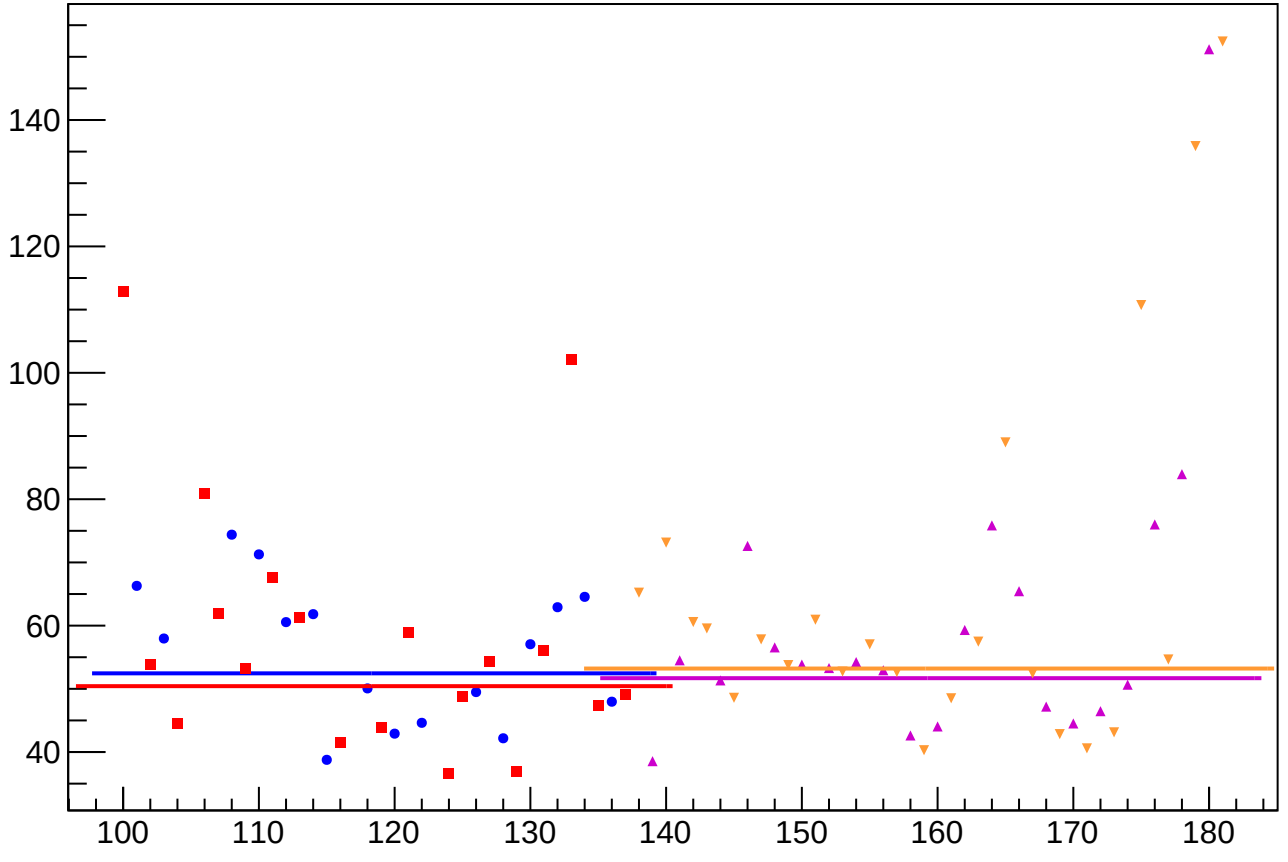
Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.015+/-0.011 $\chi^2$/NDF:41.5/36

Out: -0.002+/-0.011 $\chi^2$/NDF:45.0/41

All: 0.006+/-0.008 $\chi^2$/NDF: 87.7/78

asym_sam_2468_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.451+/-0.014 $\chi^2$/NDF: 418014.5/15

Left Out: 53.211+/-0.009 $\chi^2$/NDF:2507849.8/22

Right Out: 50.423+/-0.014 $\chi^2$/NDF: 676747.2/18

Left In: 51.686+/-0.009 $\chi^2$/NDF:1743564.0/20

Left: 52.447+/-0.007 $\chi^2$/NDF: 4264562.8/43

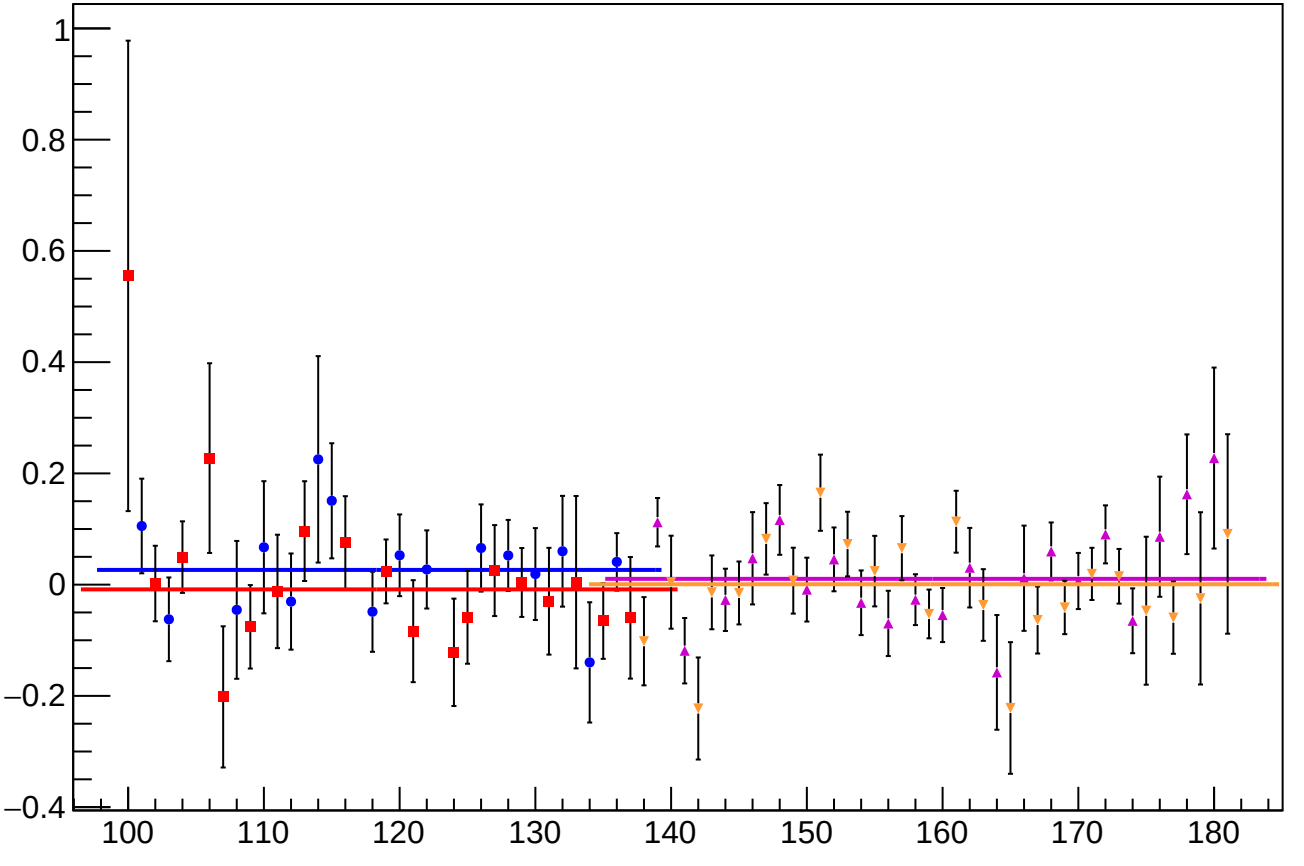
Right: 51.390+/-0.010 $\chi^2$/NDF: 1105100.5/34

In: 51.914+/-0.008 $\chi^2$/NDF:2163553.2/36

Out: 52.323+/-0.008 $\chi^2$/NDF:3212527.9/41

All: 52.121+/-0.006 $\chi^2$/NDF: 5377454.0/78

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: 0.001+/-0.013 $\chi^2$/NDF:30.9/22

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.010+/-0.013 $\chi^2$/NDF:31.1/20

Left: 0.006+/-0.009 $\chi^2$/NDF: 62.3/43

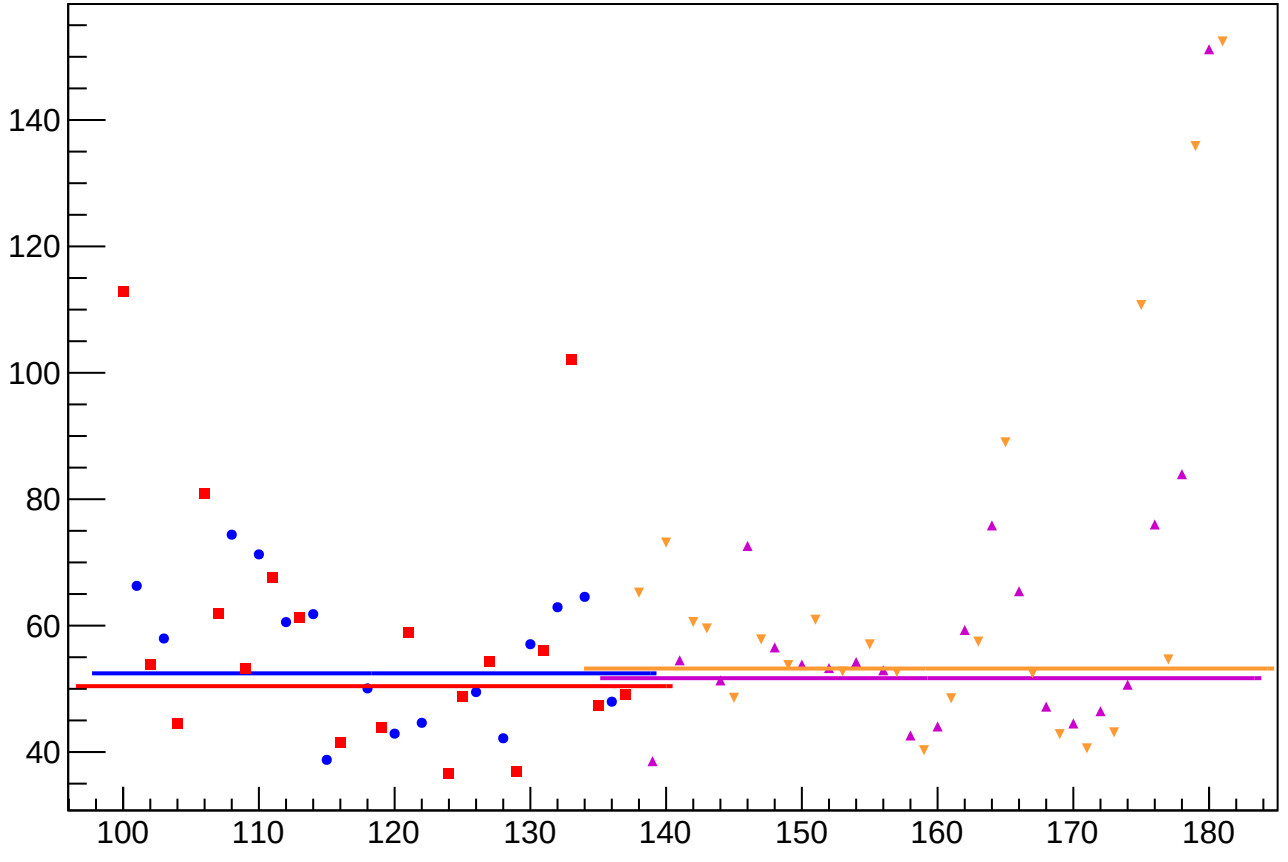
Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.015+/-0.011 $\chi^2$/NDF:41.5/36

Out: -0.002+/-0.011 $\chi^2$/NDF:45.0/41

All: 0.006+/-0.008 $\chi^2$/NDF: 87.7/78

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.451+/-0.014 $\chi^2$/NDF: 418014.5/15

Left Out: 53.211+/-0.009 $\chi^2$/NDF:2507849.8/22

Right Out: 50.423+/-0.014 $\chi^2$/NDF: 676747.2/18

Left In: 51.686+/-0.009 $\chi^2$/NDF:1743564.0/20

Left: 52.447+/-0.007 $\chi^2$/NDF: 4264562.8/43

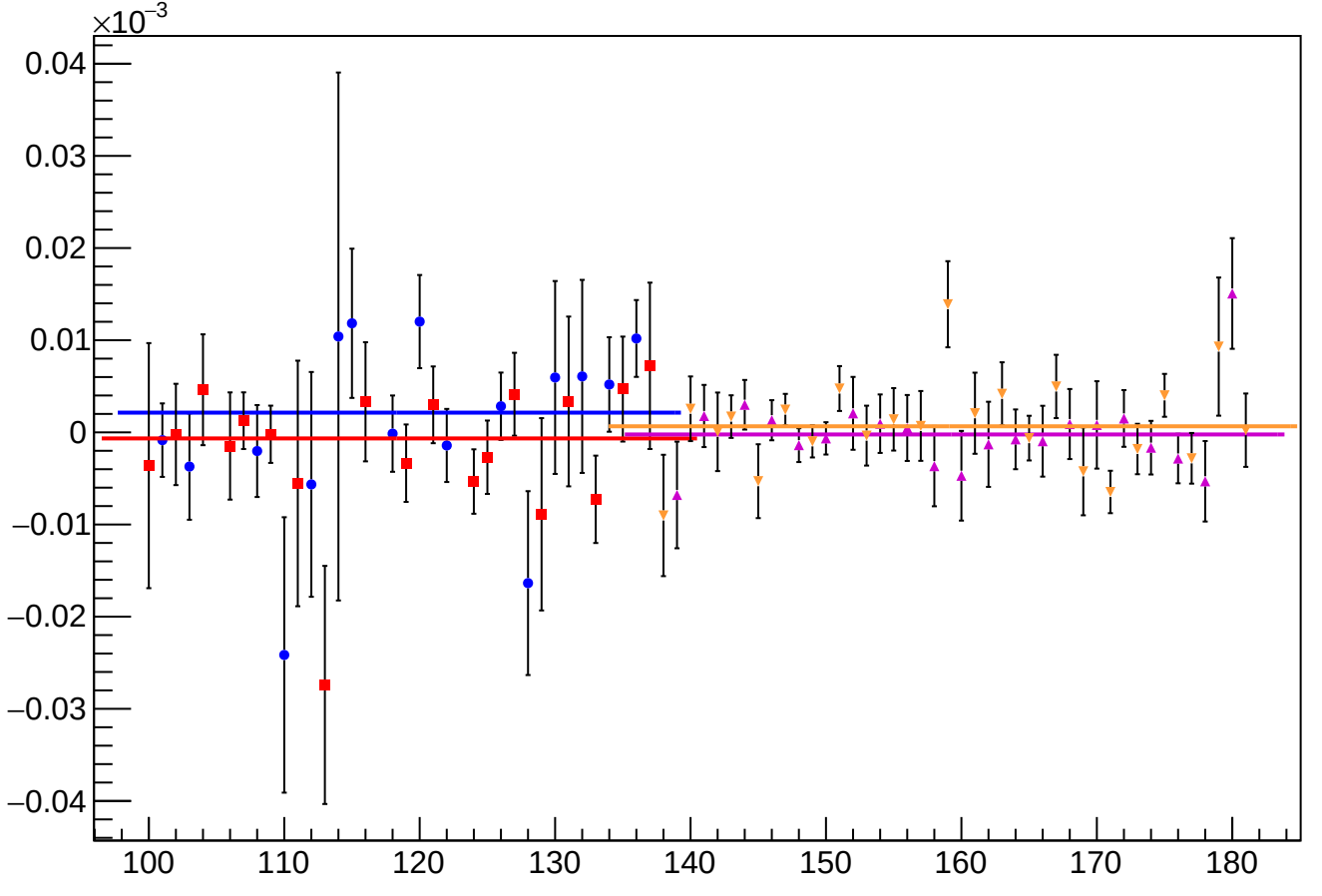
Right: 51.390+/-0.010 $\chi^2$/NDF: 1105100.5/34

In: 51.914+/-0.008 $\chi^2$/NDF:2163553.2/36

Out: 52.323+/-0.008 $\chi^2$/NDF:3212527.9/41

All: 52.121+/-0.006 $\chi^2$/NDF: 5377454.0/78

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:37.4/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.6/20

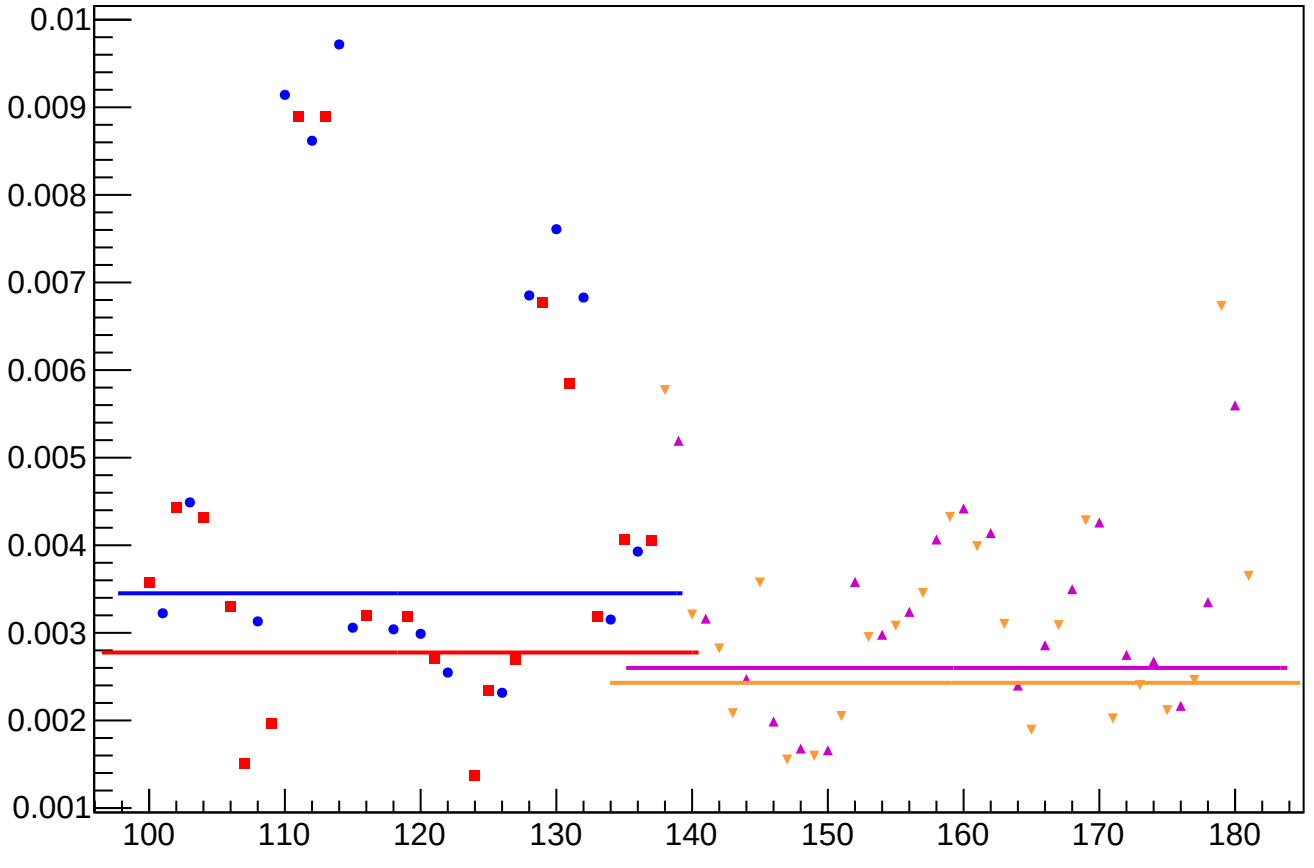
Left: 0.000+/-0.000 $\chi^2$/NDF: 54.0/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:38.0/36

Out: 0.000+/-0.000 $\chi^2$/NDF:53.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 91.3/78




Right In: 0.003+/-0.000 $\chi^2$/NDF: 1951102.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:4216330.6/22

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2734939.6/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:3631992.2/20

Left: 0.003+/-0.000 $\chi^2$/NDF: 7918327.3/43

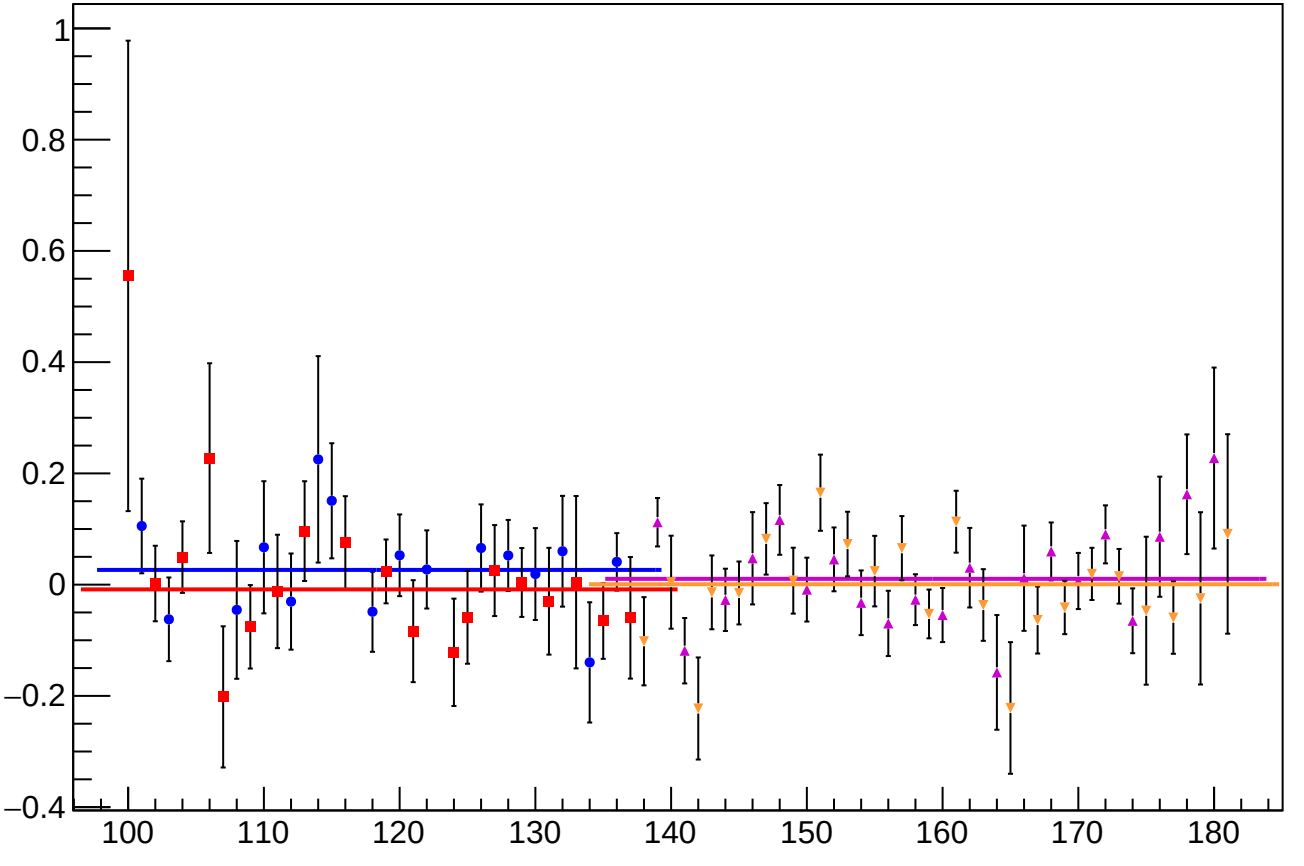
Right: 0.003+/-0.000 $\chi^2$/NDF: 4968092.4/34

In: 0.003+/-0.000 $\chi^2$/NDF:6193818.3/36

Out: 0.003+/-0.000 $\chi^2$/NDF:7093109.8/41

All: 0.003+/-0.000 $\chi^2$/NDF: 13488970.9/78

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: 0.001+/-0.013 $\chi^2$/NDF:30.9/22

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.010+/-0.013 $\chi^2$/NDF:31.1/20

Left: 0.006+/-0.009 $\chi^2$/NDF: 62.3/43

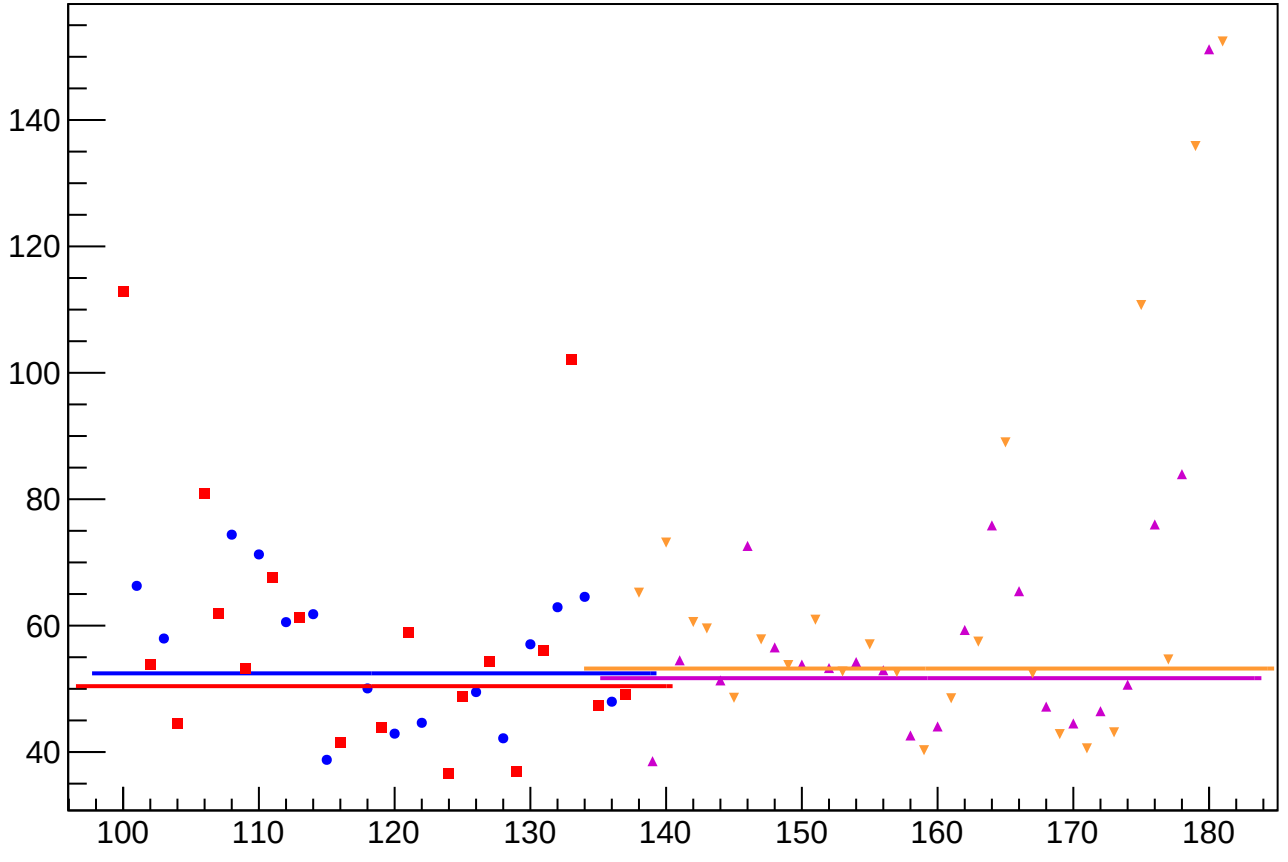
Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.015+/-0.011 $\chi^2$/NDF:41.5/36

Out: -0.002+/-0.011 $\chi^2$/NDF:45.0/41

All: 0.006+/-0.008 $\chi^2$/NDF: 87.7/78

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.450+/-0.014 $\chi^2$/NDF: 417967.5/15

Left Out: 53.211+/-0.009 $\chi^2$/NDF:2507873.7/22

Right Out: 50.422+/-0.014 $\chi^2$/NDF: 676753.5/18

Left In: 51.686+/-0.009 $\chi^2$/NDF:1743609.6/20

Left: 52.447+/-0.007 $\chi^2$/NDF: 4264633.0/43

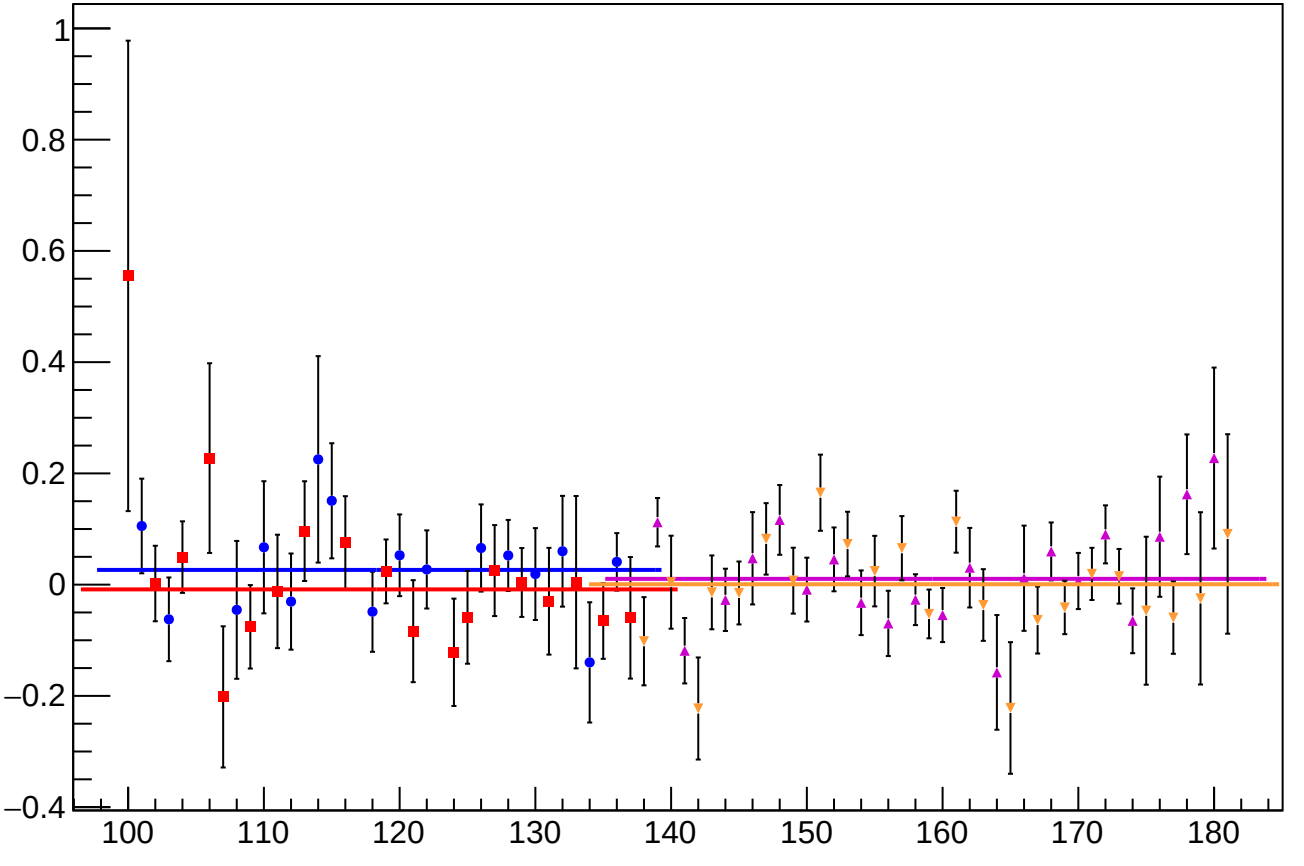
Right: 51.389+/-0.010 $\chi^2$/NDF: 1105059.9/34

In: 51.914+/-0.008 $\chi^2$/NDF:2163544.4/36

Out: 52.323+/-0.008 $\chi^2$/NDF:3212587.7/41

All: 52.121+/-0.006 $\chi^2$/NDF: 5377504.9/78

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: 0.001+/-0.013 $\chi^2$/NDF:30.9/22

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.010+/-0.013 $\chi^2$/NDF:31.1/20

Left: 0.006+/-0.009 $\chi^2$/NDF: 62.3/43

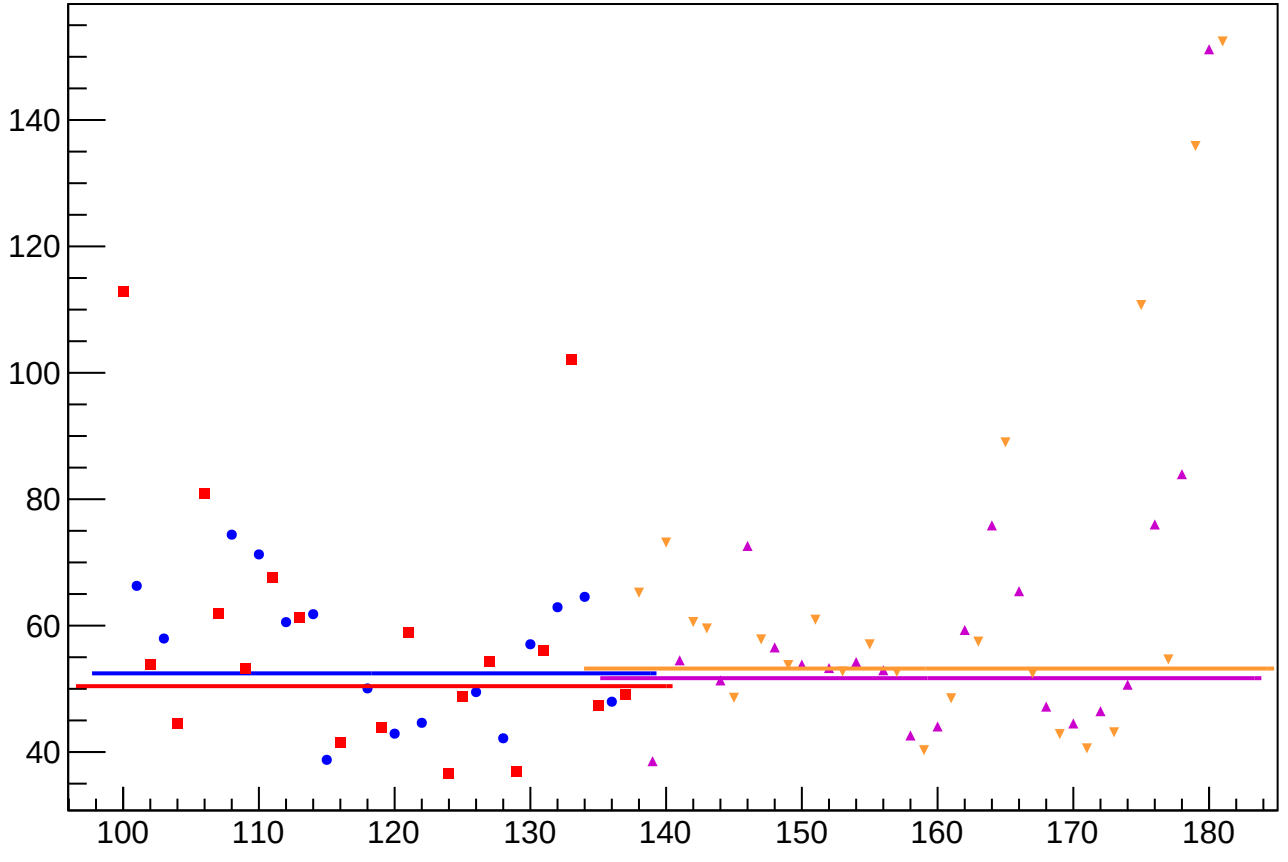
Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.015+/-0.011 $\chi^2$/NDF:41.5/36

Out: -0.002+/-0.011 $\chi^2$/NDF:45.0/41

All: 0.006+/-0.008 $\chi^2$/NDF: 87.7/78

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 52.450+/-0.014 $\chi^2$/NDF: 417967.5/15

Left Out: 53.211+/-0.009 $\chi^2$/NDF:2507873.7/22

Right Out: 50.422+/-0.014 $\chi^2$/NDF: 676753.5/18

Left In: 51.686+/-0.009 $\chi^2$/NDF:1743609.6/20

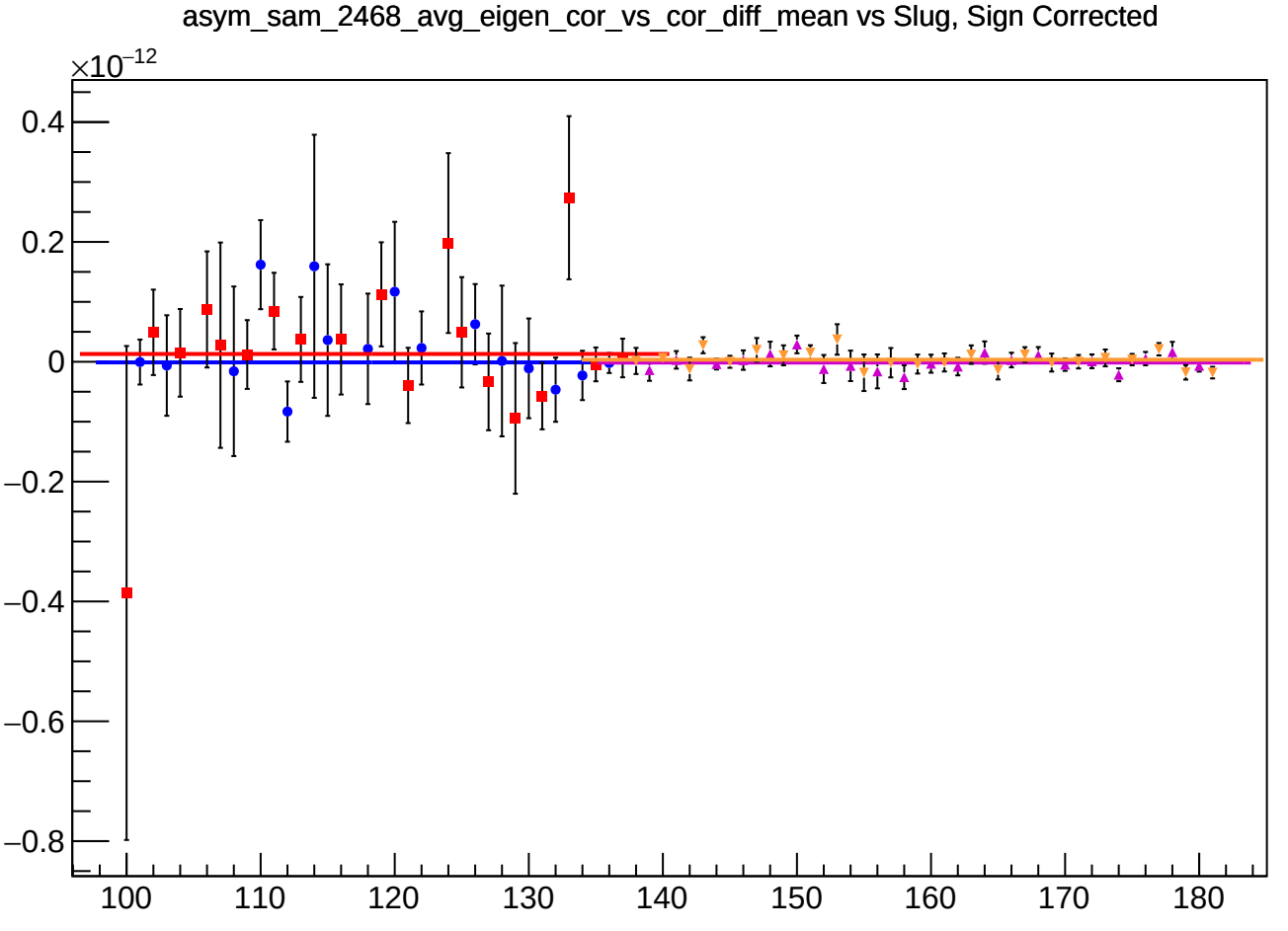
Left: 52.447+/-0.007 $\chi^2$/NDF: 4264633.0/43

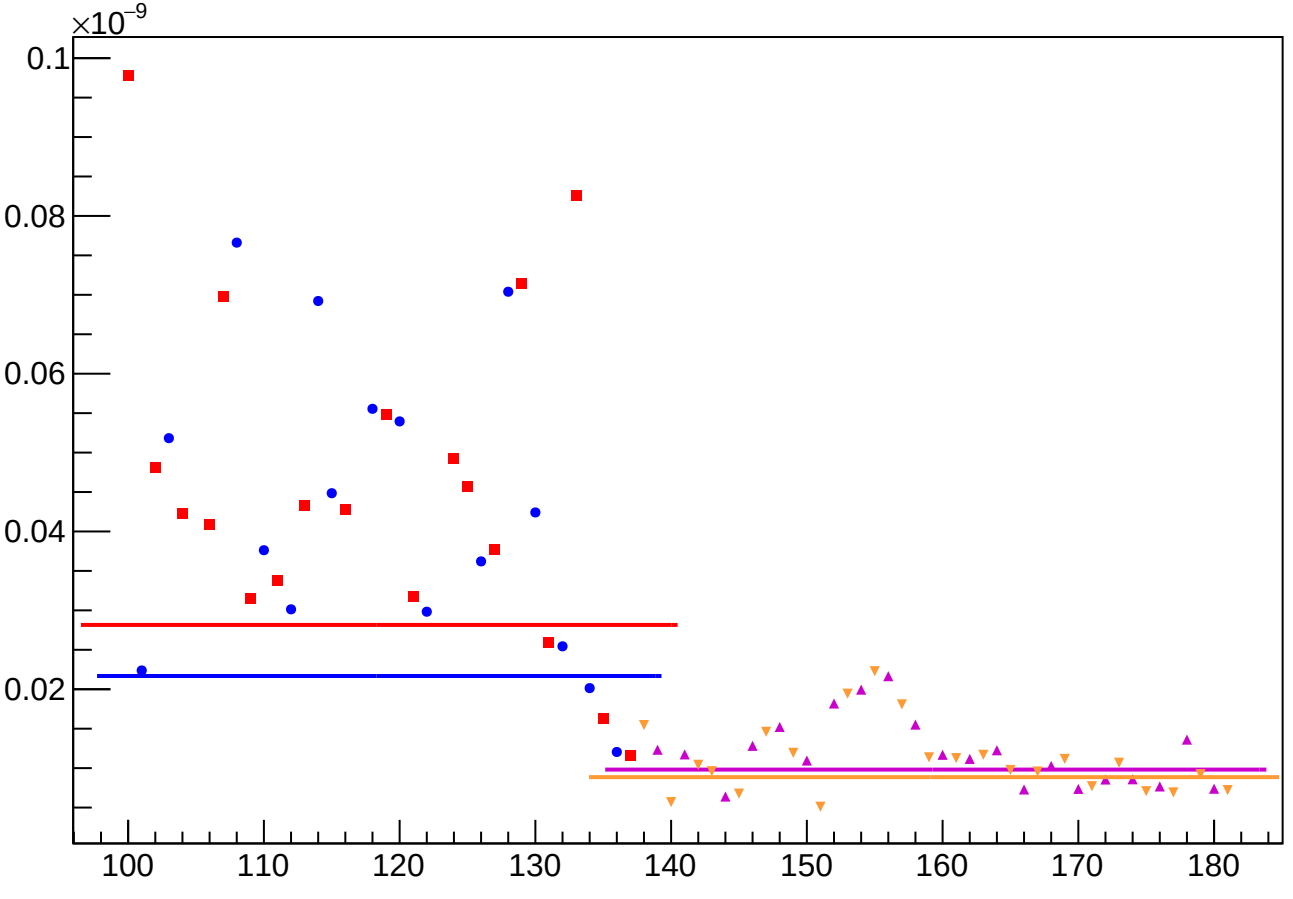
Right: 51.389+/-0.010 $\chi^2$/NDF: 1105059.9/34

In: 51.914+/-0.008 $\chi^2$/NDF:2163544.4/36

Out: 52.323+/-0.008 $\chi^2$/NDF:3212587.7/41

All: 52.121+/-0.006 $\chi^2$/NDF: 5377504.9/78


asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 11.3/15
Left Out: 0.000+/-0.000 χ²/NDF:21.4/22
Right Out: 0.000+/-0.000 χ²/NDF: 13.7/18
Left In: -0.000+/-0.000 χ²/NDF:14.8/20
Left: 0.000+/-0.000 χ²/NDF: 37.5/43
Right: 0.000+/-0.000 χ²/NDF: 25.5/34
In: -0.000+/-0.000 χ²/NDF:26.1/36
Out: 0.000+/-0.000 χ²/NDF:35.5/41
All: 0.000+/-0.000 χ²/NDF: 63.1/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2522749.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2508449.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2381736.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2288886.1/20

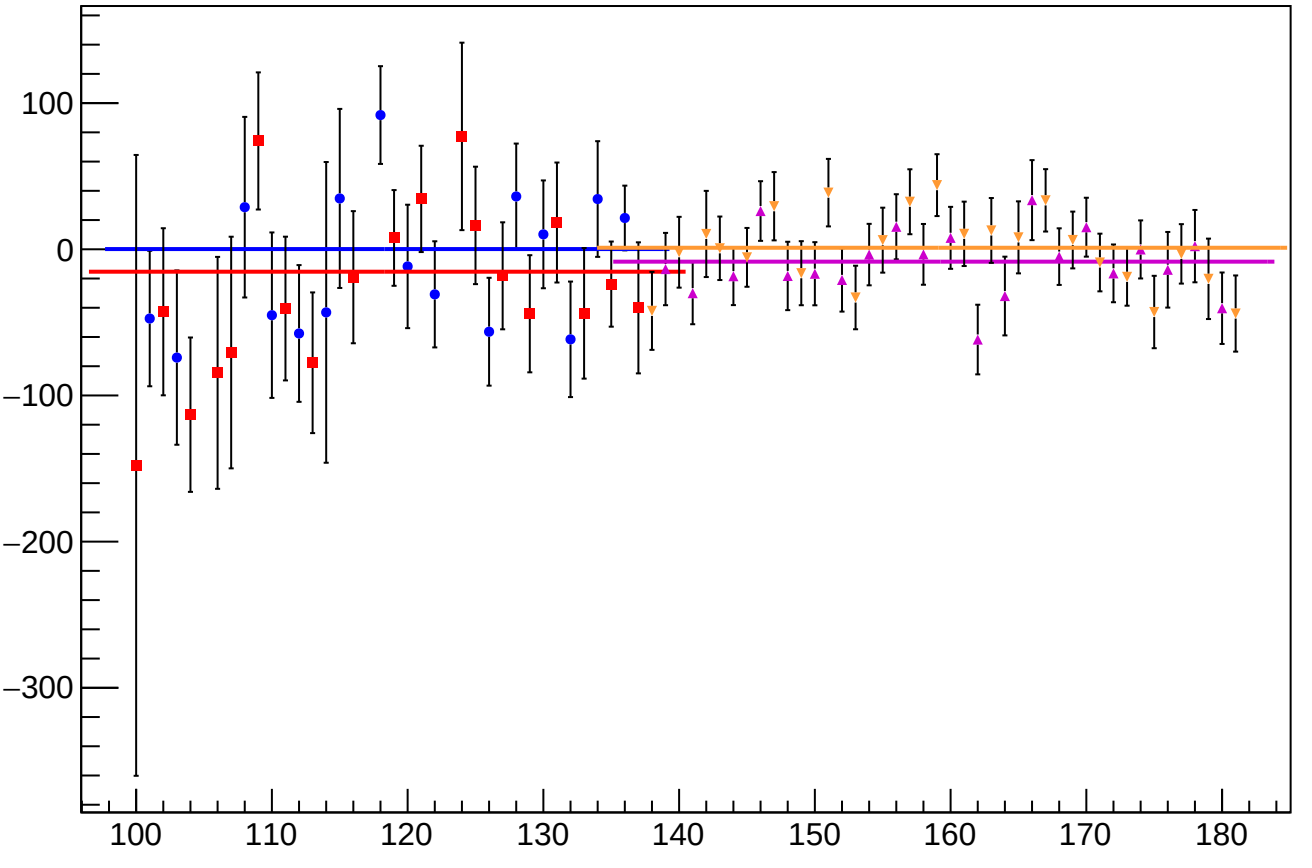
Left: 0.000+/-0.000 $\chi^2$/NDF: 4906214.5/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5141383.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:6655344.2/36

Out: 0.000+/-0.000 $\chi^2$/NDF:8306835.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15084336.0/78




Right In: 0.155+/-10.048 $\chi^2$/NDF: 21.3/15

Left Out: 1.047+/-4.682 $\chi^2$/NDF:27.2/22

Right Out: -15.333+/-10.267 $\chi^2$/NDF: 17.9/18

Left In: -8.461+/-4.810 $\chi^2$/NDF:18.5/20

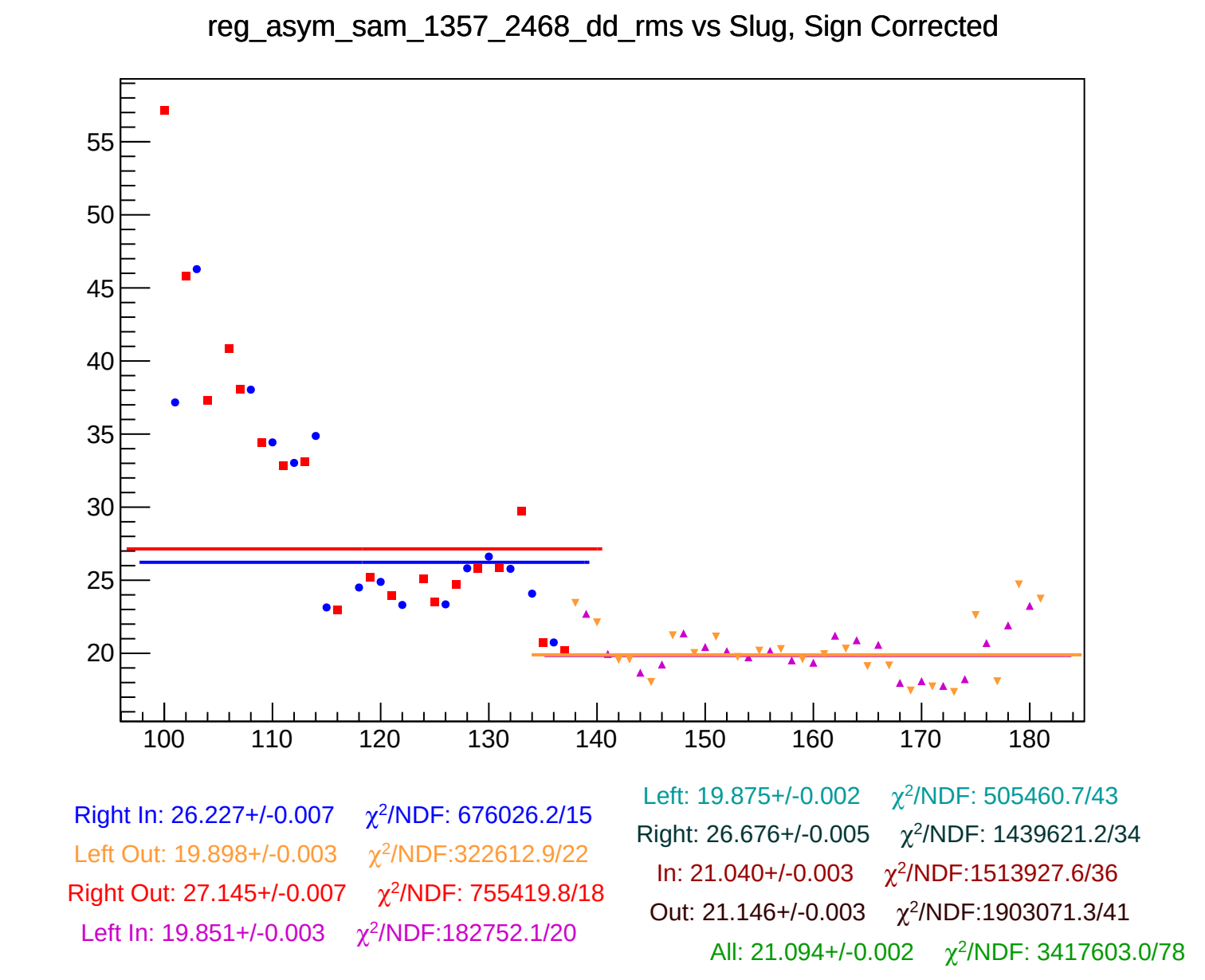
Left: -3.580+/-3.355 $\chi^2$/NDF: 47.7/43

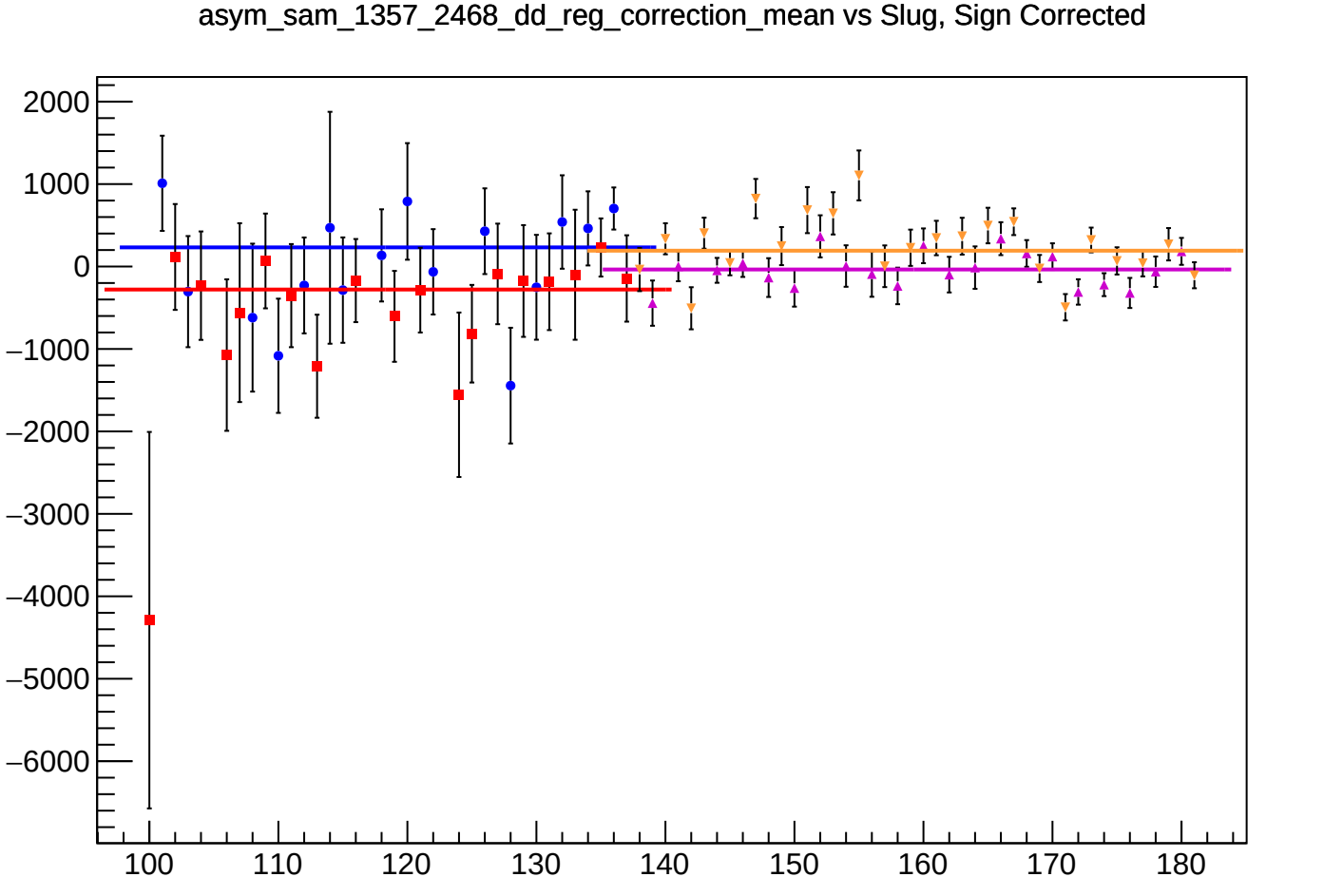
Right: -7.422+/-7.181 $\chi^2$/NDF: 40.4/34

In: -6.855+/-4.338 $\chi^2$/NDF:40.4/36

Out: -1.774+/-4.260 $\chi^2$/NDF:47.3/41

All: -4.268+/-3.040 $\chi^2$/NDF: 88.4/78


reg_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected
55
50
45
40
35
30
25
20
100
110
120
130
140
150
160
170
180
Right In: 26.227+/-0.007 χ²/NDF: 676026.2/15
Left Out: 19.898+/-0.003 χ²/NDF:322612.9/22
Right Out: 27.145+/-0.007 χ²/NDF: 755419.8/18
Left In: 19.851+/-0.003 χ²/NDF:182752.1/20
Left: 19.875+/-0.002 χ²/NDF: 505460.7/43
Right: 26.676+/-0.005 χ²/NDF: 1439621.2/34
In: 21.040+/-0.003 χ²/NDF:1513927.6/36
Out: 21.146+/-0.003 χ²/NDF:1903071.3/41
All: 21.094+/-0.002 χ²/NDF: 3417603.0/78




Right In: 232.092+/-134.871 $\chi^2$/NDF: 19.6/15

Left Out: 192.122+/-40.585 $\chi^2$/NDF:68.0/22

Right Out: -279.042+/-139.965 $\chi^2$/NDF: 12.1/18

Left In: -35.994+/-41.556 $\chi^2$/NDF:24.0/20

Left: 80.761+/-29.035 $\chi^2$/NDF: 107.4/43

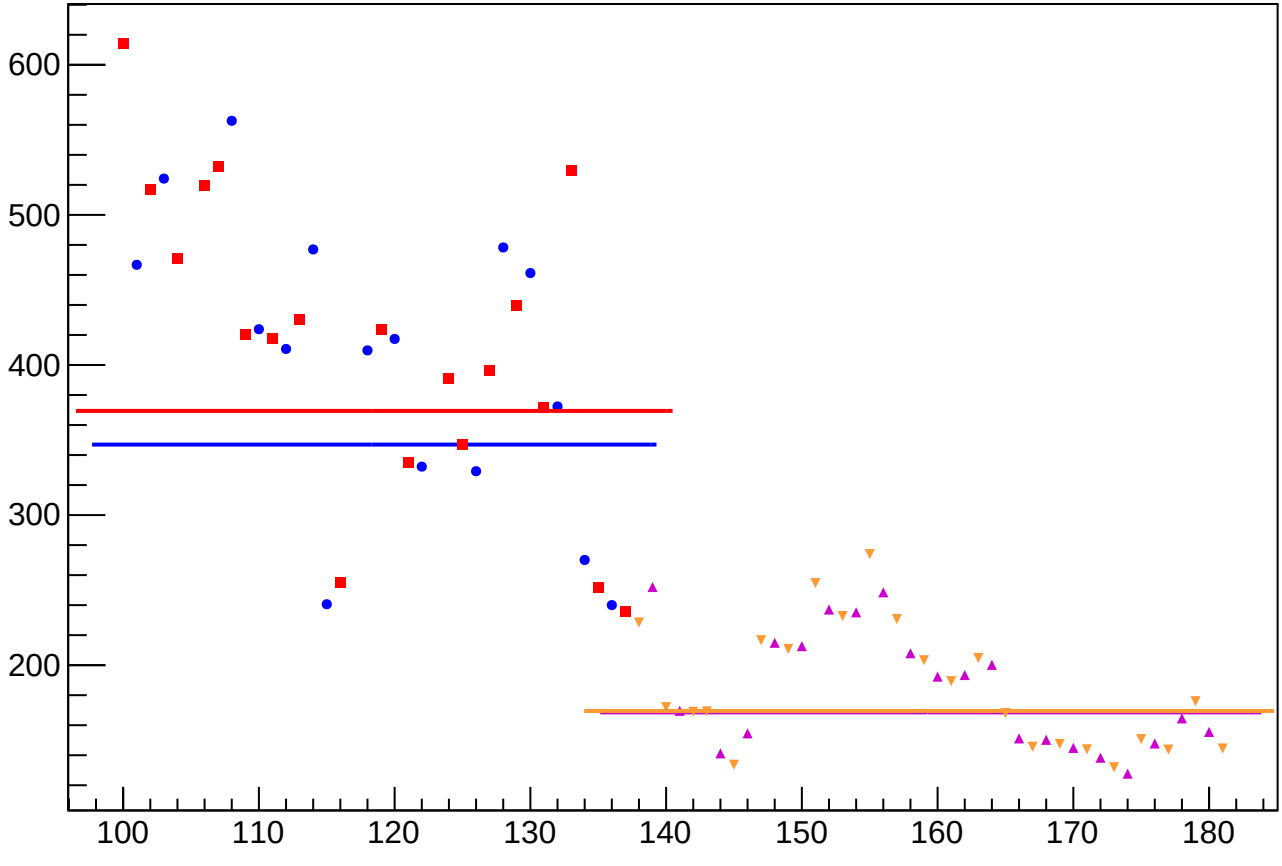
Right: -14.004+/-97.119 $\chi^2$/NDF: 38.6/34

In: -12.750+/-39.714 $\chi^2$/NDF:47.3/36

Out: 155.579+/-38.979 $\chi^2$/NDF:90.5/41

All: 72.986+/-27.819 $\chi^2$/NDF: 147.0/78

asym_sam_1357_2468_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 346.969+/-0.095 $\chi^2$/NDF: 1058029.4/15

Left Out: 169.489+/-0.029 $\chi^2$/NDF:1521465.9/22

Right Out: 369.410+/-0.099 $\chi^2$/NDF: 918852.6/18

Left In: 168.528+/-0.029 $\chi^2$/NDF:1392173.5/20

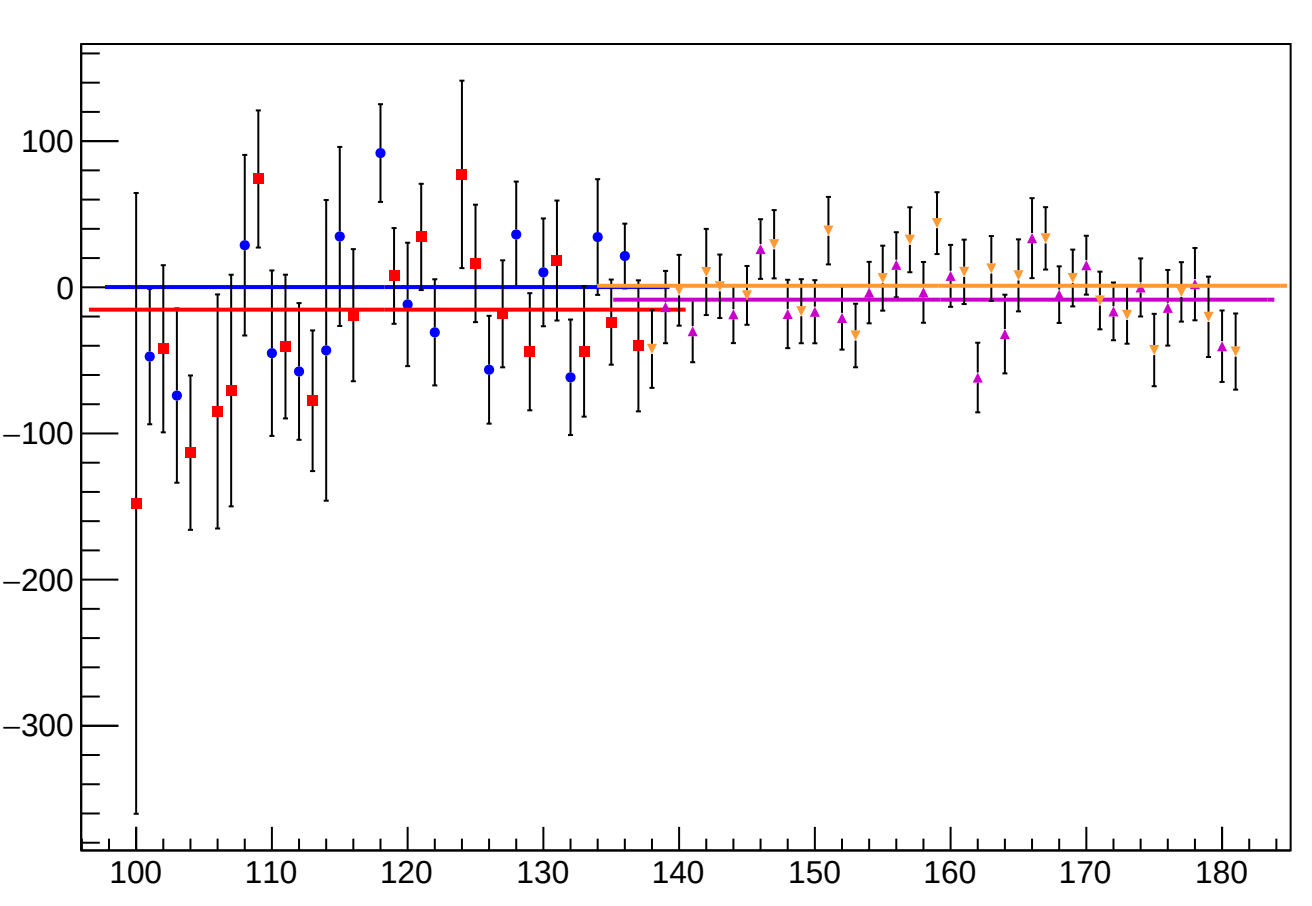
Left: 169.020+/-0.021 $\chi^2$/NDF: 2914186.9/43

Right: 357.774+/-0.069 $\chi^2$/NDF: 2003541.6/34

In: 184.000+/-0.028 $\chi^2$/NDF:5647581.4/36

Out: 184.995+/-0.028 $\chi^2$/NDF:6204293.0/41

All: 184.507+/-0.020 $\chi^2$/NDF: 11852513.6/78




Right In: 0.157+/-10.048 $\chi^2$/NDF: 21.3/15

Left Out: 1.045+/-4.682 $\chi^2$/NDF:27.2/22

Right Out: -15.292+/-10.269 $\chi^2$/NDF: 17.9/18

Left In: -8.461+/-4.810 $\chi^2$/NDF:18.5/20

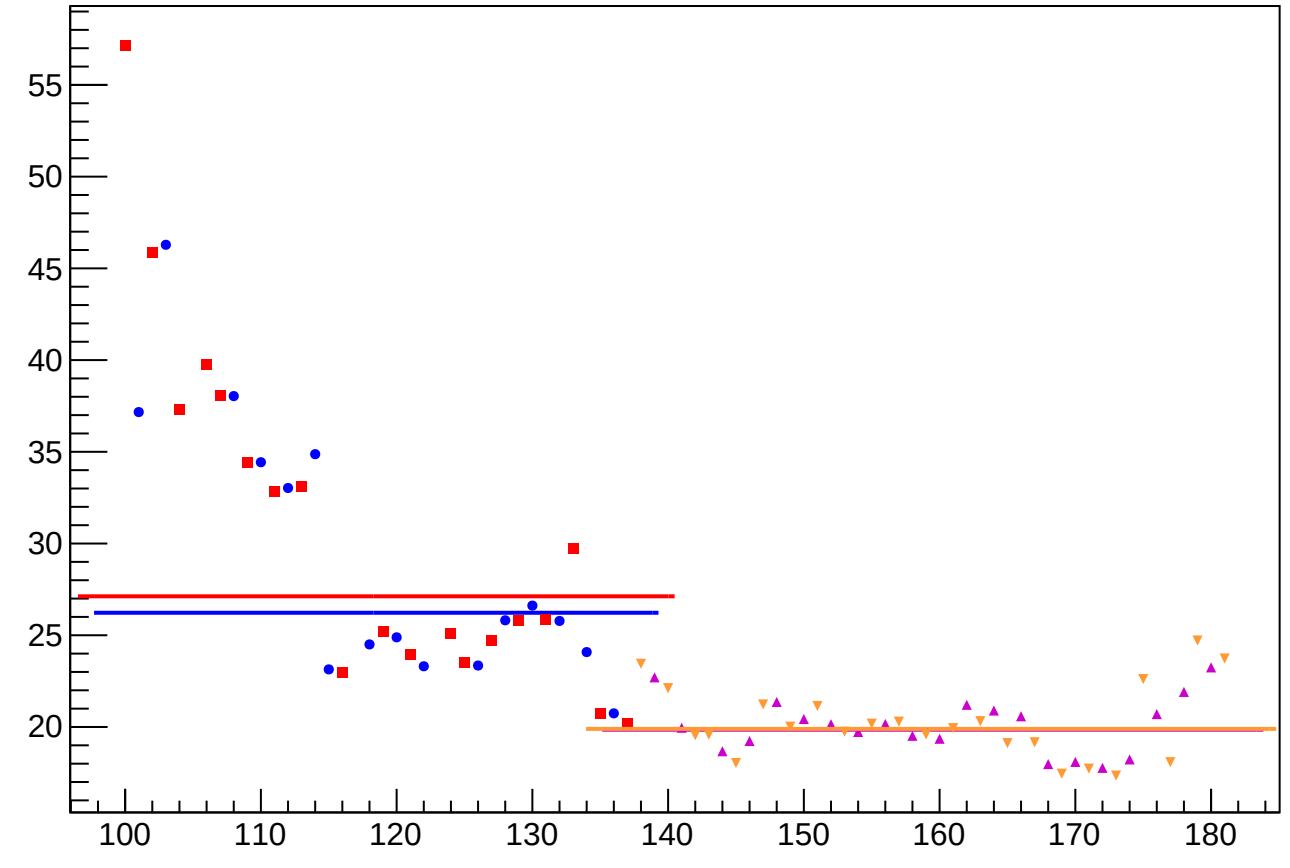
Left: -3.580+/-3.355 $\chi^2$/NDF: 47.7/43

Right: -7.399+/-7.182 $\chi^2$/NDF: 40.4/34

In: -6.855+/-4.338 $\chi^2$/NDF:40.4/36

Out: -1.767+/-4.260 $\chi^2$/NDF:47.3/41

All: -4.265+/-3.040 $\chi^2$/NDF: 88.4/78




Right In: 26.227+/-0.007 $\chi^2$/NDF: 676029.5/15

Left Out: 19.898+/-0.003 $\chi^2$/NDF:322612.9/22

Right Out: 27.123+/-0.007 $\chi^2$/NDF: 745675.5/18

Left In: 19.851+/-0.003 $\chi^2$/NDF:182752.1/20

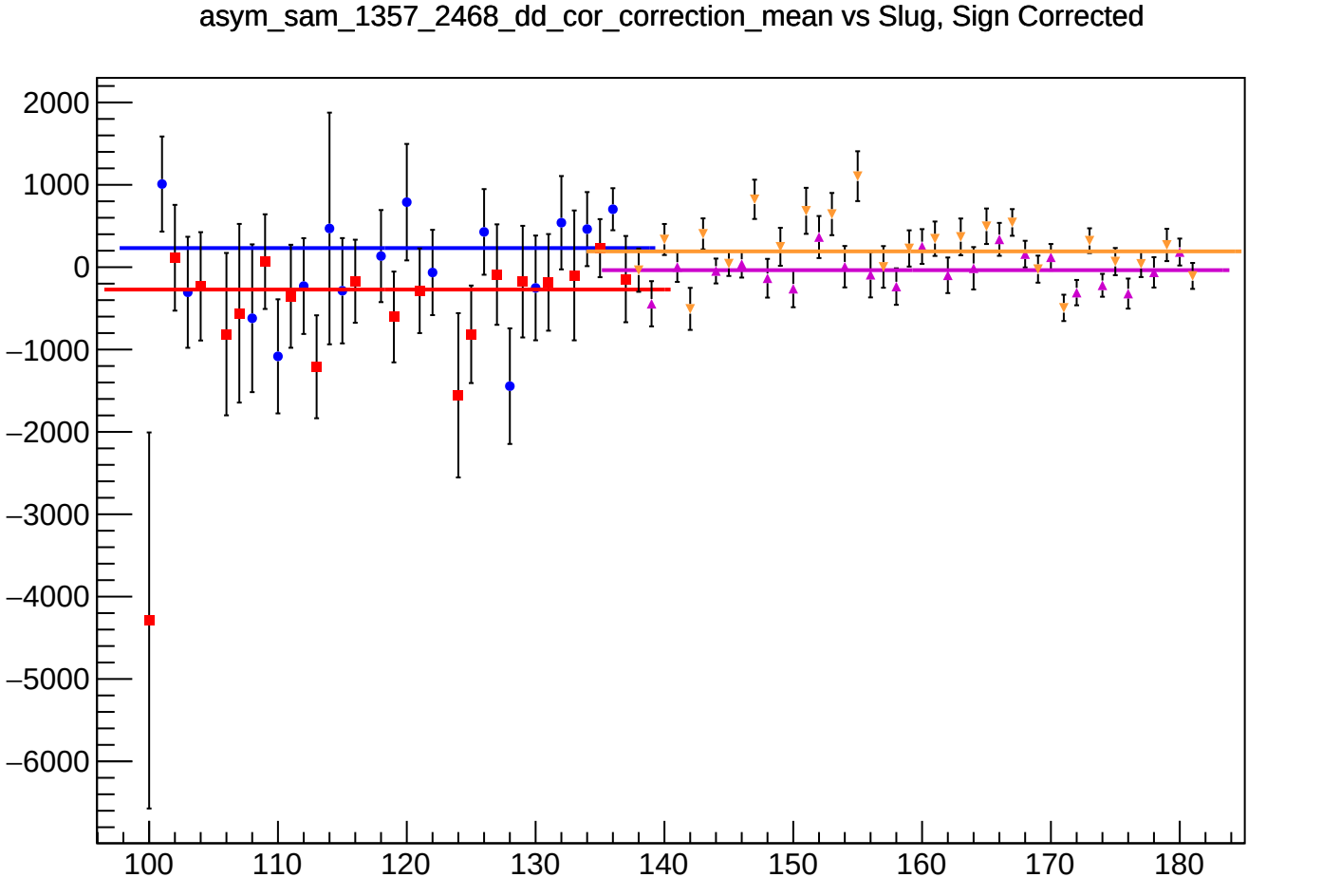
Left: 19.875+/-0.002 $\chi^2$/NDF: 505460.8/43

Right: 26.665+/-0.005 $\chi^2$/NDF: 1429493.5/34

In: 21.040+/-0.003 $\chi^2$/NDF:1513930.9/36

Out: 21.142+/-0.003 $\chi^2$/NDF:1888119.8/41

All: 21.092+/-0.002 $\chi^2$/NDF: 3402608.6/78




Right In: 232.084+/-134.871 $\chi^2$/NDF: 19.6/15

Left Out: 192.120+/-40.585 $\chi^2$/NDF:68.0/22

Right Out: -271.412+/-140.183 $\chi^2$/NDF: 11.6/18

Left In: -35.995+/-41.556 $\chi^2$/NDF:24.0/20

Left: 80.760+/-29.035 $\chi^2$/NDF: 107.4/43

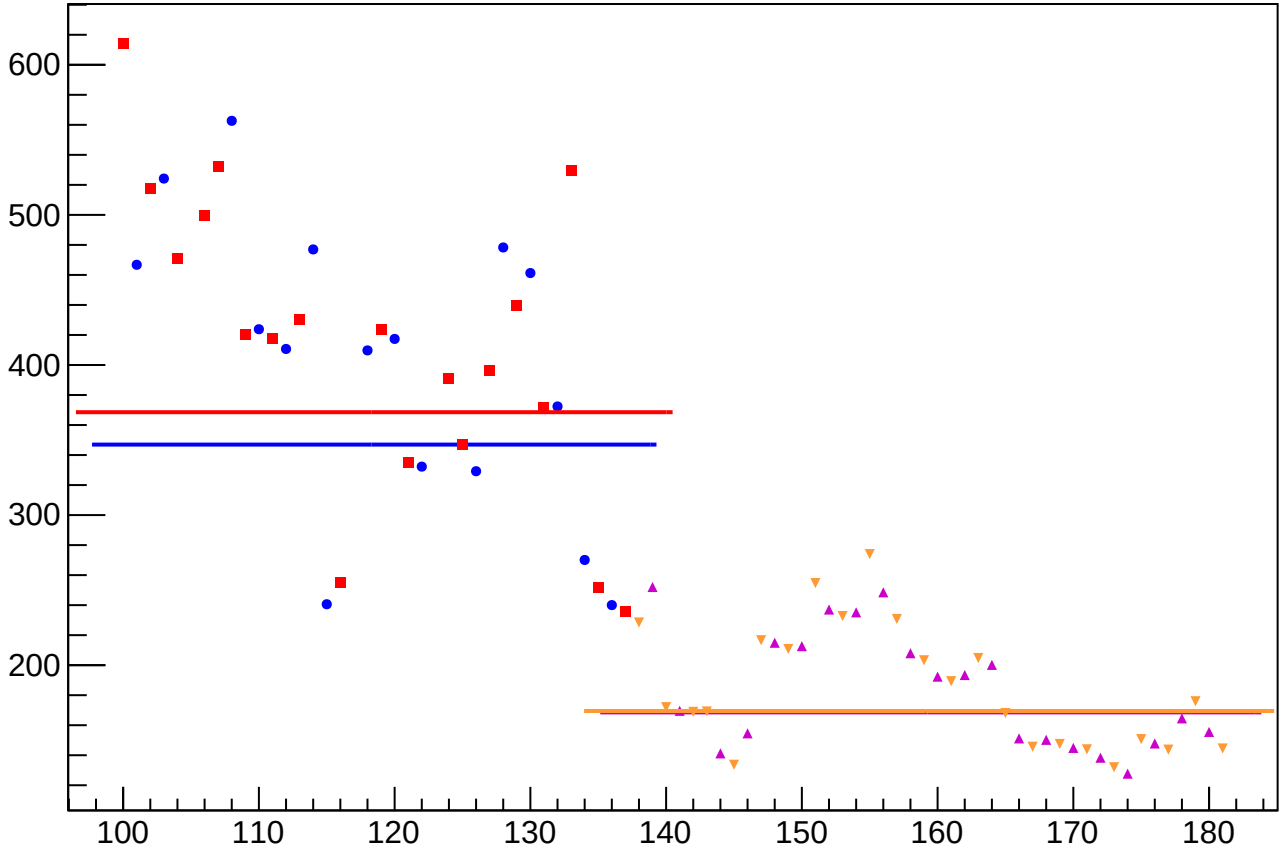
Right: -9.945+/-97.192 $\chi^2$/NDF: 38.0/34

In: -12.751+/-39.714 $\chi^2$/NDF:47.3/36

Out: 156.273+/-38.984 $\chi^2$/NDF:89.7/41

All: 73.328+/-27.820 $\chi^2$/NDF: 146.2/78

asym_sam_1357_2468_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 346.969+/-0.095 $\chi^2$/NDF: 1058057.4/15

Left Out: 169.489+/-0.029 $\chi^2$/NDF:1521466.2/22

Right Out: 368.543+/-0.099 $\chi^2$/NDF: 900219.6/18

Left In: 168.528+/-0.029 $\chi^2$/NDF:1392169.4/20

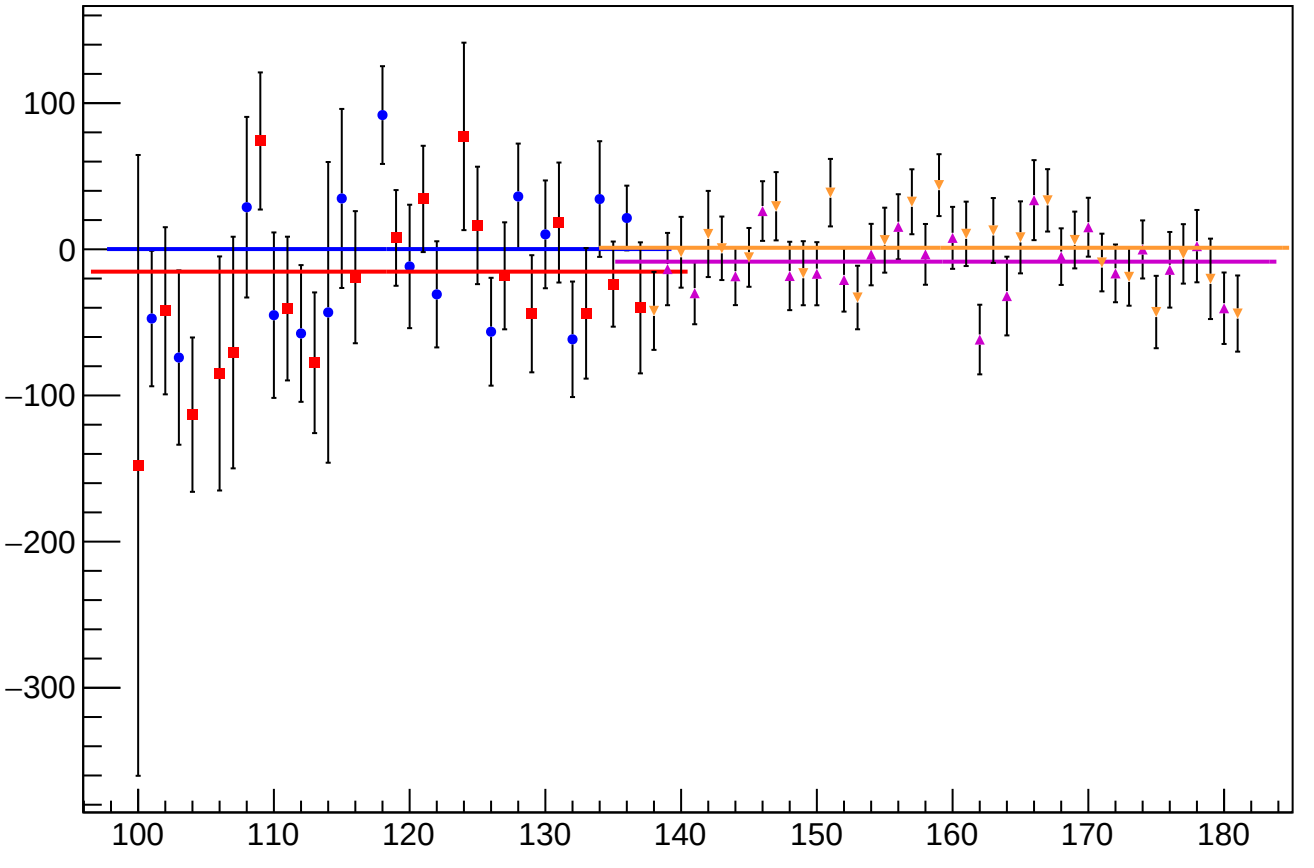
Left: 169.020+/-0.021 $\chi^2$/NDF: 2914182.9/43

Right: 357.340+/-0.069 $\chi^2$/NDF: 1982876.2/34

In: 184.000+/-0.028 $\chi^2$/NDF:5647596.2/36

Out: 184.883+/-0.028 $\chi^2$/NDF:6142408.5/41

All: 184.450+/-0.020 $\chi^2$/NDF: 11790508.6/78




Right In: 0.157+/-10.048 $\chi^2$/NDF: 21.3/15

Left Out: 1.045+/-4.682 $\chi^2$/NDF:27.2/22

Right Out: -15.292+/-10.269 $\chi^2$/NDF: 17.9/18

Left In: -8.461+/-4.810 $\chi^2$/NDF:18.5/20

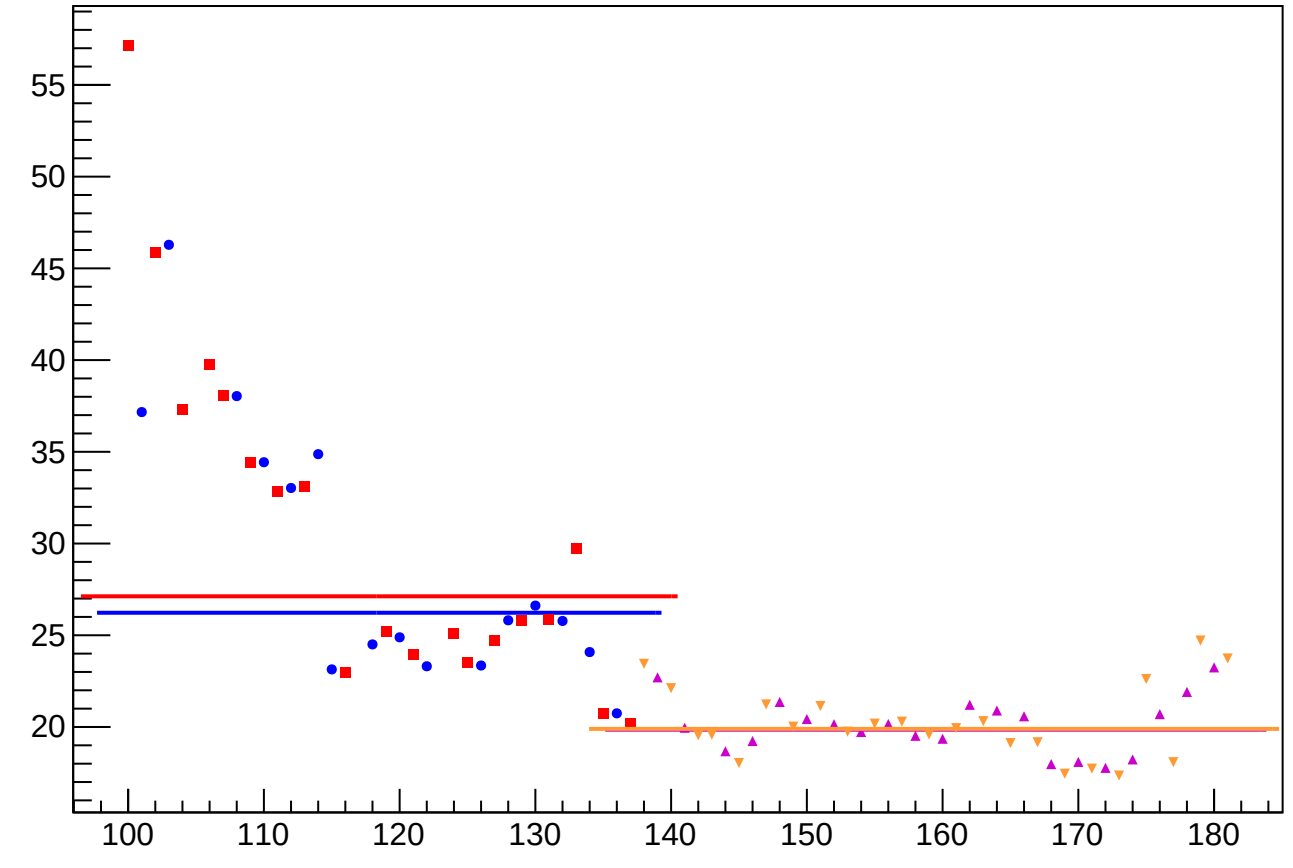
Left: -3.580+/-3.355 $\chi^2$/NDF: 47.7/43

Right: -7.399+/-7.182 $\chi^2$/NDF: 40.4/34

In: -6.855+/-4.338 $\chi^2$/NDF:40.4/36

Out: -1.767+/-4.260 $\chi^2$/NDF:47.3/41

All: -4.265+/-3.040 $\chi^2$/NDF: 88.4/78




Right In: 26.227+/-0.007 $\chi^2$/NDF: 676029.5/15

Left Out: 19.898+/-0.003 $\chi^2$/NDF:322612.9/22

Right Out: 27.123+/-0.007 $\chi^2$/NDF: 745675.5/18

Left In: 19.851+/-0.003 $\chi^2$/NDF:182752.1/20

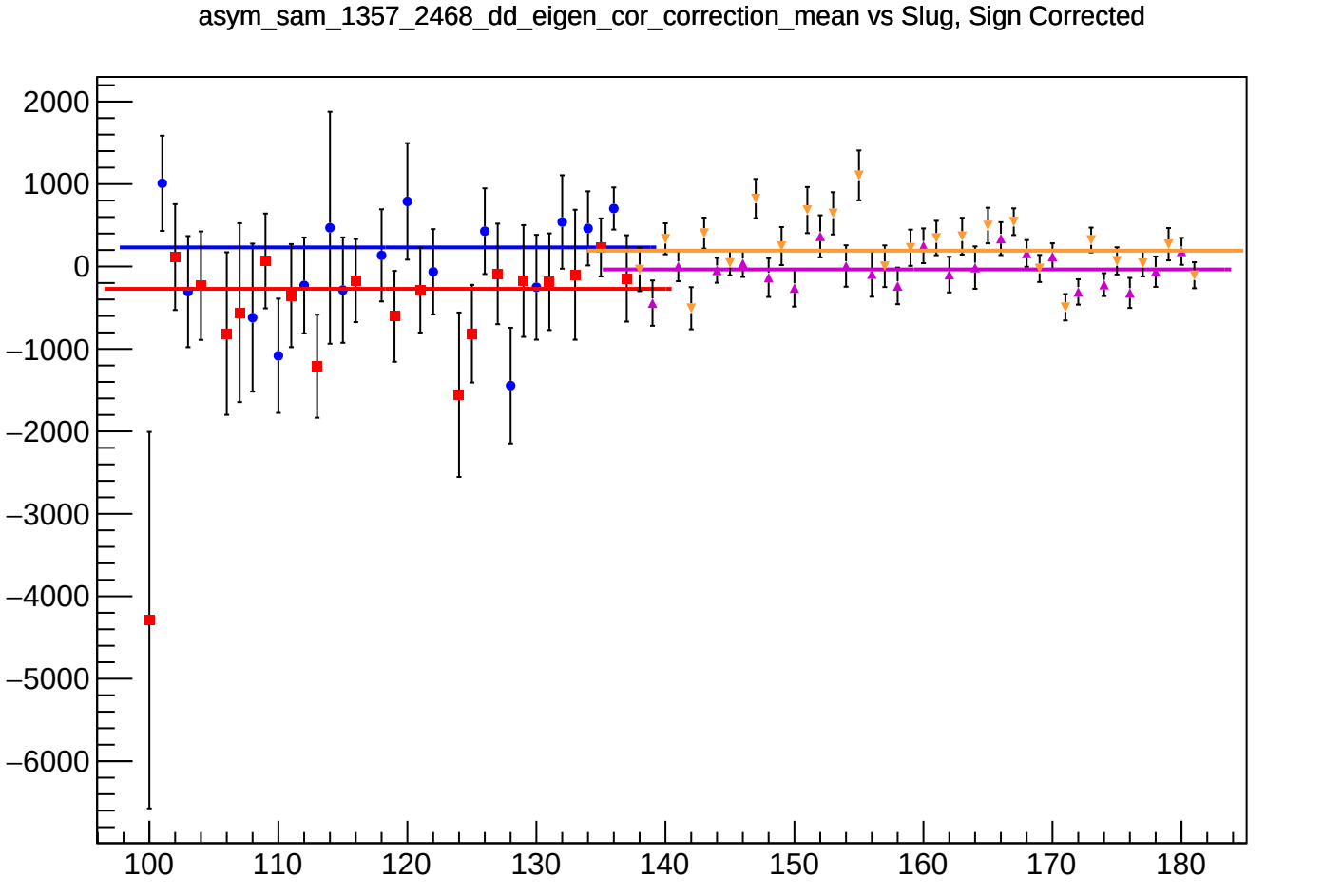
Left: 19.875+/-0.002 $\chi^2$/NDF: 505460.8/43

Right: 26.665+/-0.005 $\chi^2$/NDF: 1429493.5/34

In: 21.040+/-0.003 $\chi^2$/NDF:1513930.9/36

Out: 21.142+/-0.003 $\chi^2$/NDF:1888119.8/41

All: 21.092+/-0.002 $\chi^2$/NDF: 3402608.6/78




Right In: 232.084+/-134.871 $\chi^2$/NDF: 19.6/15

Left Out: 192.120+/-40.585 $\chi^2$/NDF:68.0/22

Right Out: -271.412+/-140.183 $\chi^2$/NDF: 11.6/18

Left In: -35.995+/-41.556 $\chi^2$/NDF:24.0/20

Left: 80.760+/-29.035 $\chi^2$/NDF: 107.4/43

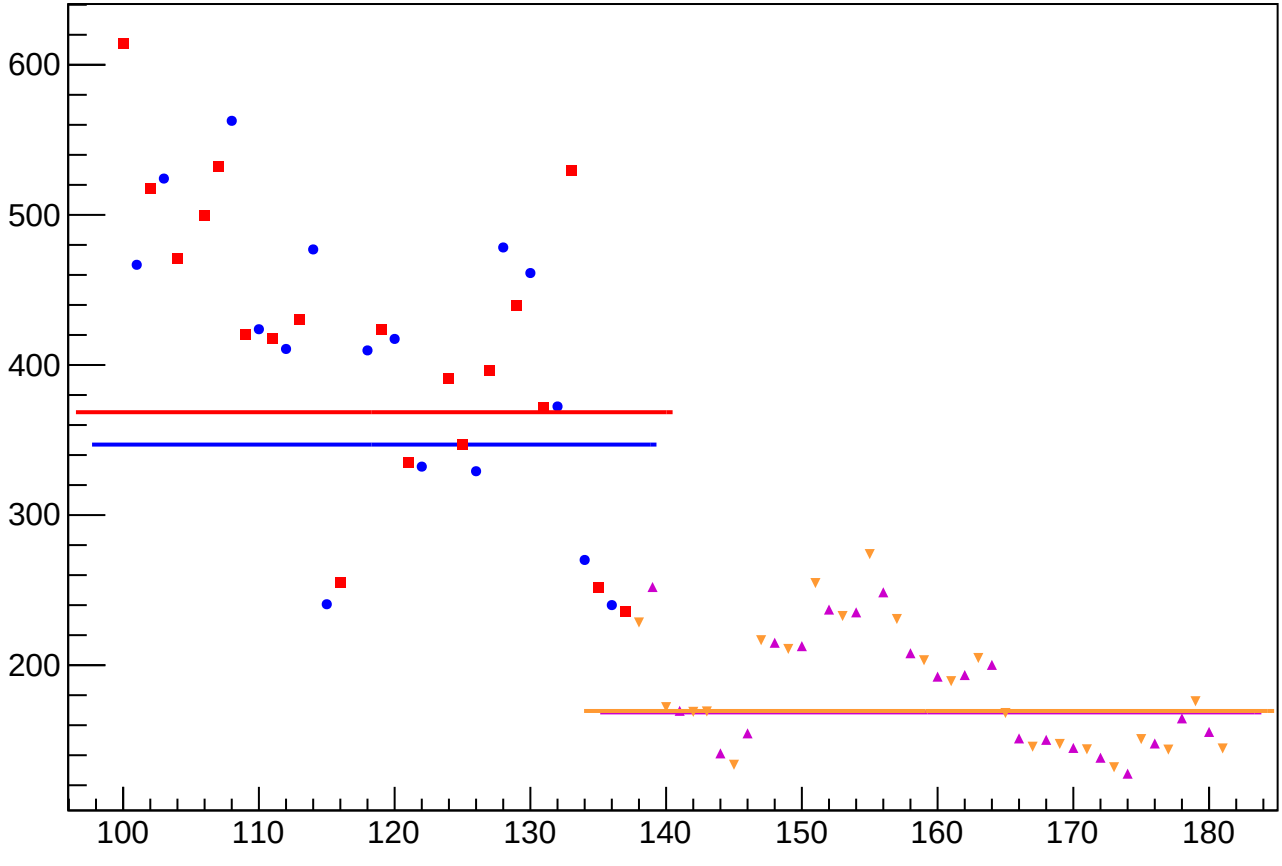
Right: -9.945+/-97.192 $\chi^2$/NDF: 38.0/34

In: -12.751+/-39.714 $\chi^2$/NDF:47.3/36

Out: 156.273+/-38.984 $\chi^2$/NDF:89.7/41

All: 73.328+/-27.820 $\chi^2$/NDF: 146.2/78

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 346.969+/-0.095 $\chi^2$/NDF: 1058057.4/15

Left Out: 169.489+/-0.029 $\chi^2$/NDF:1521466.2/22

Right Out: 368.543+/-0.099 $\chi^2$/NDF: 900219.6/18

Left In: 168.528+/-0.029 $\chi^2$/NDF:1392169.4/20

Left: 169.020+/-0.021 $\chi^2$/NDF: 2914182.9/43

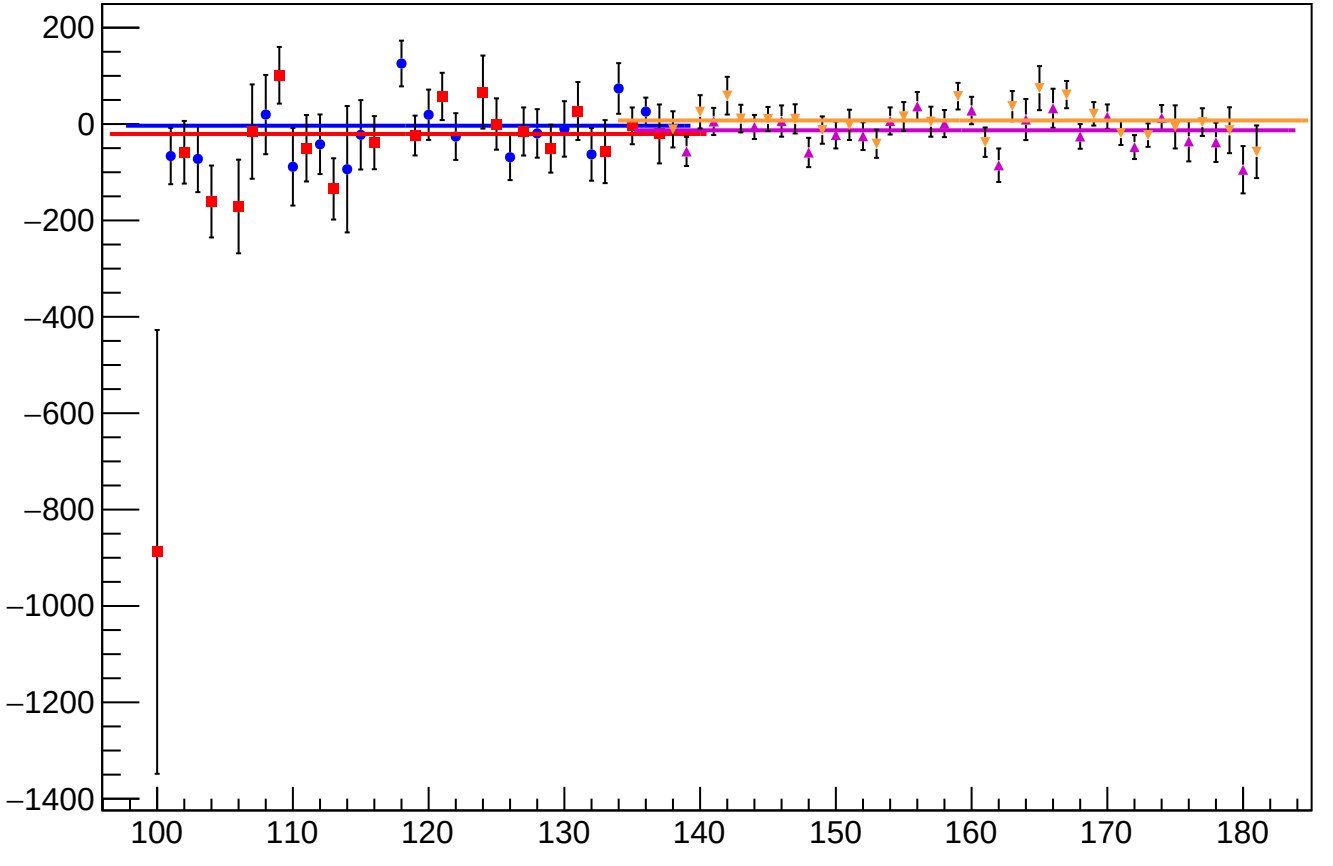
Right: 357.340+/-0.069 $\chi^2$/NDF: 1982876.2/34

In: 184.000+/-0.028 $\chi^2$/NDF:5647596.2/36

Out: 184.883+/-0.028 $\chi^2$/NDF:6142408.5/41

All: 184.450+/-0.020 $\chi^2$/NDF: 11790508.6/78

dit_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected




Right In: -3.423+/-13.393 $\chi^2$/NDF: 18.5/15

Left Out: 7.446+/-6.414 $\chi^2$/NDF:22.5/22

Right Out: -20.569+/-13.475 $\chi^2$/NDF: 23.1/18

Left In: -12.974+/-6.588 $\chi^2$/NDF:24.9/20

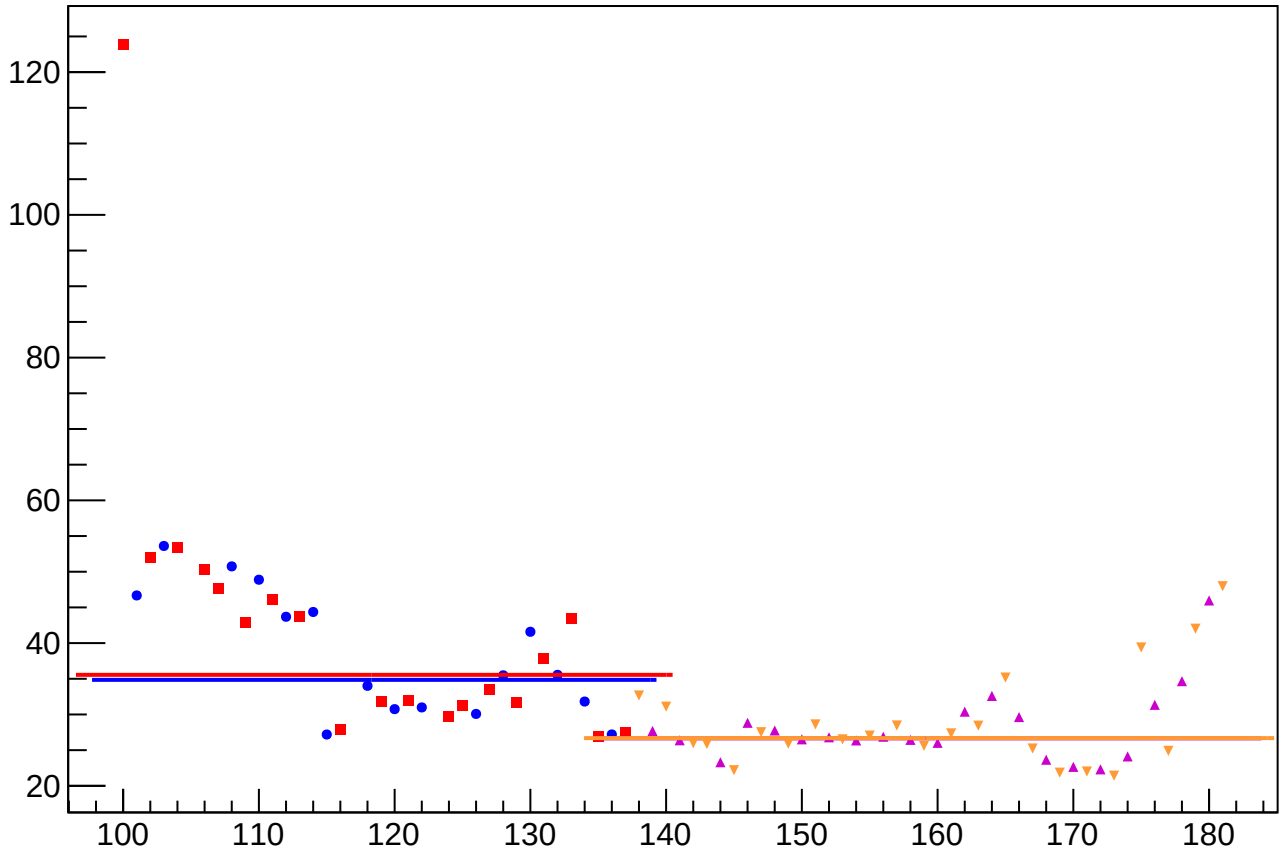
Left: -2.490+/-4.596 $\chi^2$/NDF: 52.4/43

Right: -11.944+/-9.499 $\chi^2$/NDF: 42.4/34

In: -11.113+/-5.912 $\chi^2$/NDF:43.8/36

Out: 2.272+/-5.791 $\chi^2$/NDF:49.2/41

All: -4.283+/-4.137 $\chi^2$/NDF: 95.6/78




Right In: 34.850+/-0.009 $\chi^2$/NDF: 658141.6/15

Left Out: 26.686+/-0.005 $\chi^2$/NDF:1174724.5/22

Right Out: 35.553+/-0.010 $\chi^2$/NDF: 779880.3/18

Left In: 26.651+/-0.005 $\chi^2$/NDF:693369.7/20

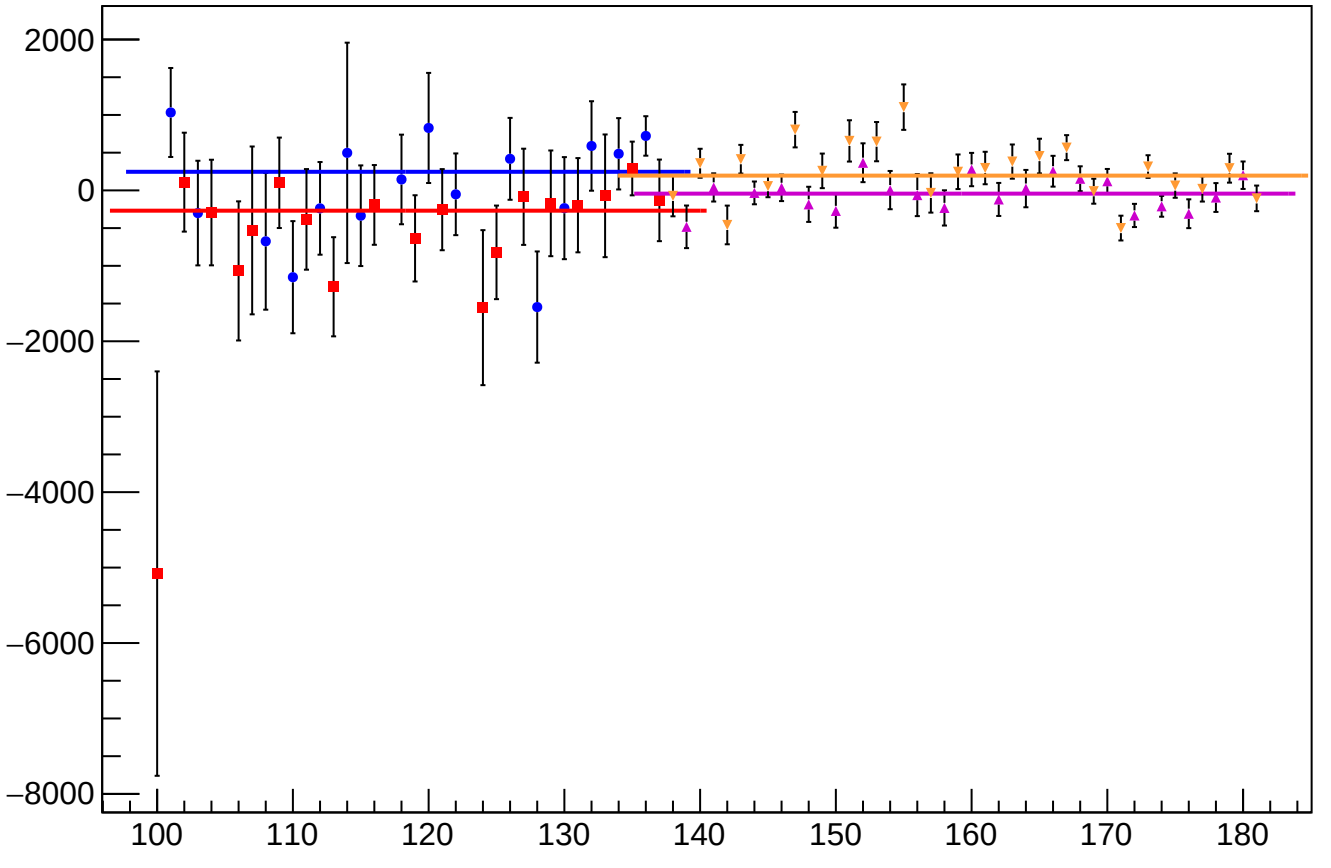
Left: 26.669+/-0.003 $\chi^2$/NDF: 1868124.5/43

Right: 35.200+/-0.007 $\chi^2$/NDF: 1440755.9/34

In: 28.248+/-0.004 $\chi^2$/NDF:1955170.0/36

Out: 28.324+/-0.004 $\chi^2$/NDF:2660595.9/41

All: 28.287+/-0.003 $\chi^2$/NDF: 4615933.8/78




Right In: 246.507+/-140.275 $\chi^2$/NDF: 19.8/15

Left Out: 195.923+/-41.150 $\chi^2$/NDF:65.4/22

Right Out: -268.913+/-145.295 $\chi^2$/NDF: 12.6/18

Left In: -42.993+/-42.491 $\chi^2$/NDF:23.2/20

Left: 80.297+/-29.560 $\chi^2$/NDF: 104.9/43

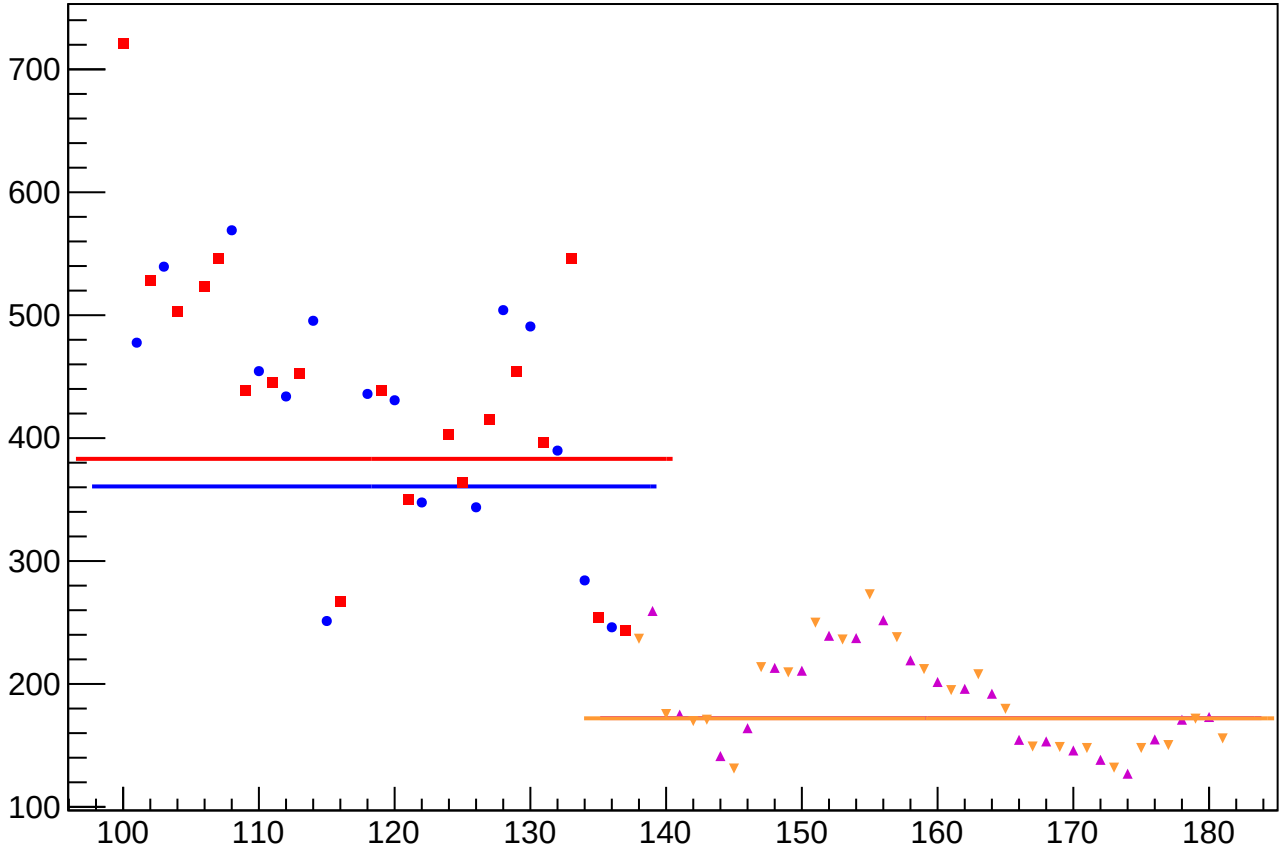
Right: -2.144+/-100.917 $\chi^2$/NDF: 38.9/34

In: -18.661+/-40.667 $\chi^2$/NDF:46.8/36

Out: 161.407+/-39.593 $\chi^2$/NDF:87.5/41

All: 73.782+/-28.368 $\chi^2$/NDF: 144.4/78

asym_sam_1357_2468_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 360.692+/-0.099 $\chi^2$/NDF: 1092760.6/15

Left Out: 172.041+/-0.029 $\chi^2$/NDF:1519468.2/22

Right Out: 383.132+/-0.103 $\chi^2$/NDF: 963125.0/18

Left In: 172.253+/-0.030 $\chi^2$/NDF:1406477.4/20

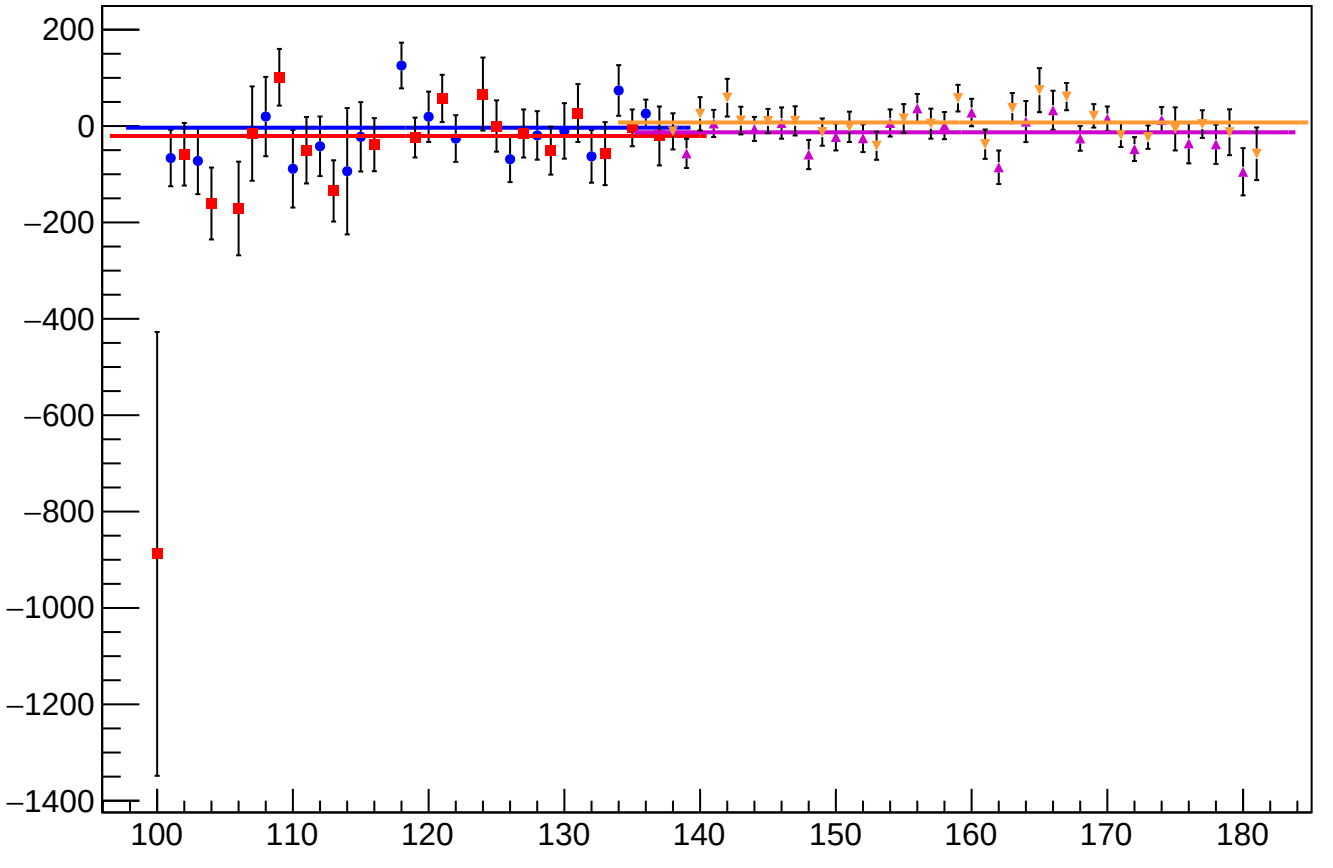
Left: 172.143+/-0.021 $\chi^2$/NDF: 2925971.3/43

Right: 371.518+/-0.071 $\chi^2$/NDF: 2080575.8/34

In: 188.090+/-0.029 $\chi^2$/NDF:5805136.3/36

Out: 187.715+/-0.028 $\chi^2$/NDF:6390617.0/41

All: 187.898+/-0.020 $\chi^2$/NDF: 12195840.6/78




Right In: -3.425+/-13.392 $\chi^2$/NDF: 18.5/15

Left Out: 7.446+/-6.414 $\chi^2$/NDF:22.5/22

Right Out: -20.569+/-13.475 $\chi^2$/NDF: 23.1/18

Left In: -12.974+/-6.588 $\chi^2$/NDF:24.9/20

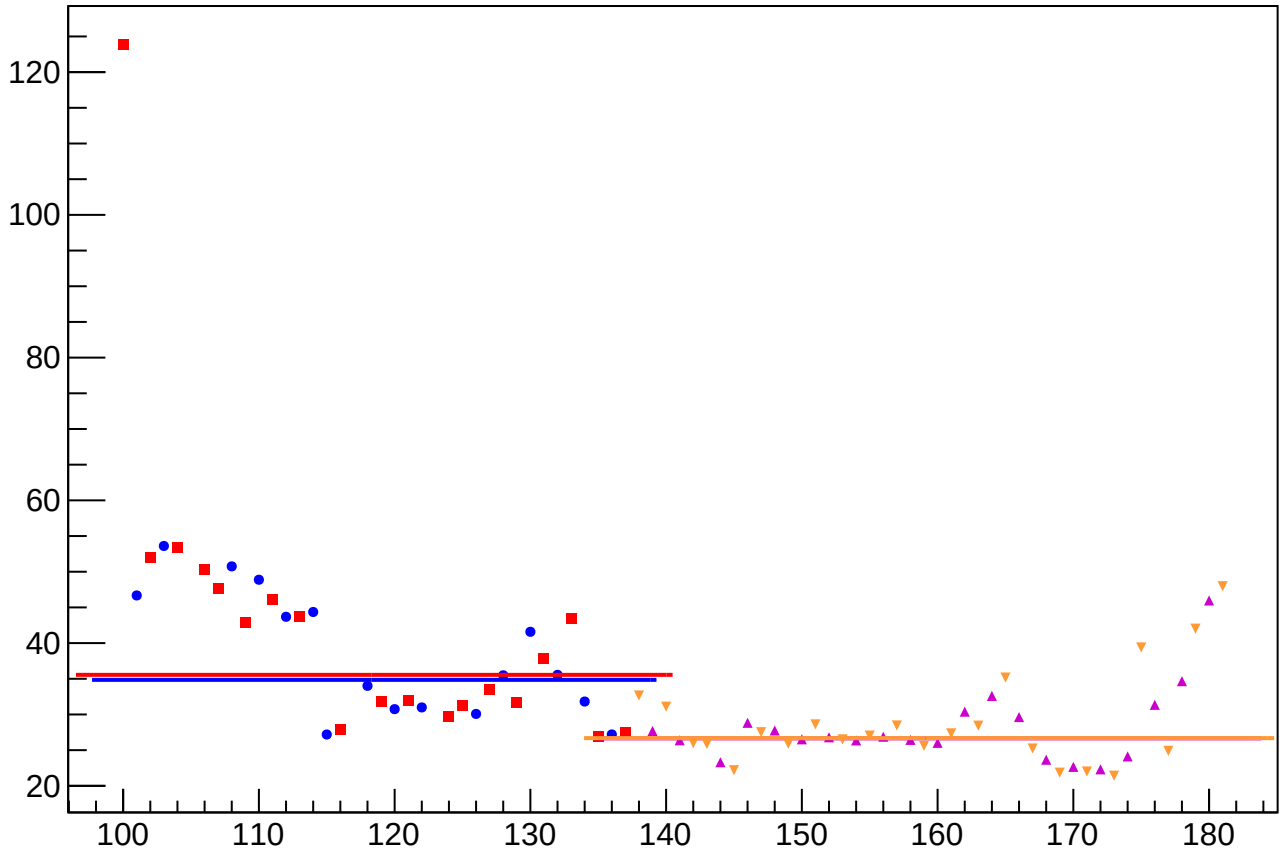
Left: -2.490+/-4.596 $\chi^2$/NDF: 52.4/43

Right: -11.944+/-9.499 $\chi^2$/NDF: 42.4/34

In: -11.113+/-5.912 $\chi^2$/NDF:43.8/36

Out: 2.272+/-5.791 $\chi^2$/NDF:49.2/41

All: -4.283+/-4.137 $\chi^2$/NDF: 95.6/78




Right In: 34.850+/-0.009 $\chi^2$/NDF: 658089.6/15

Left Out: 26.687+/-0.005 $\chi^2$/NDF:1174735.4/22

Right Out: 35.552+/-0.010 $\chi^2$/NDF: 779849.4/18

Left In: 26.651+/-0.005 $\chi^2$/NDF:693346.9/20

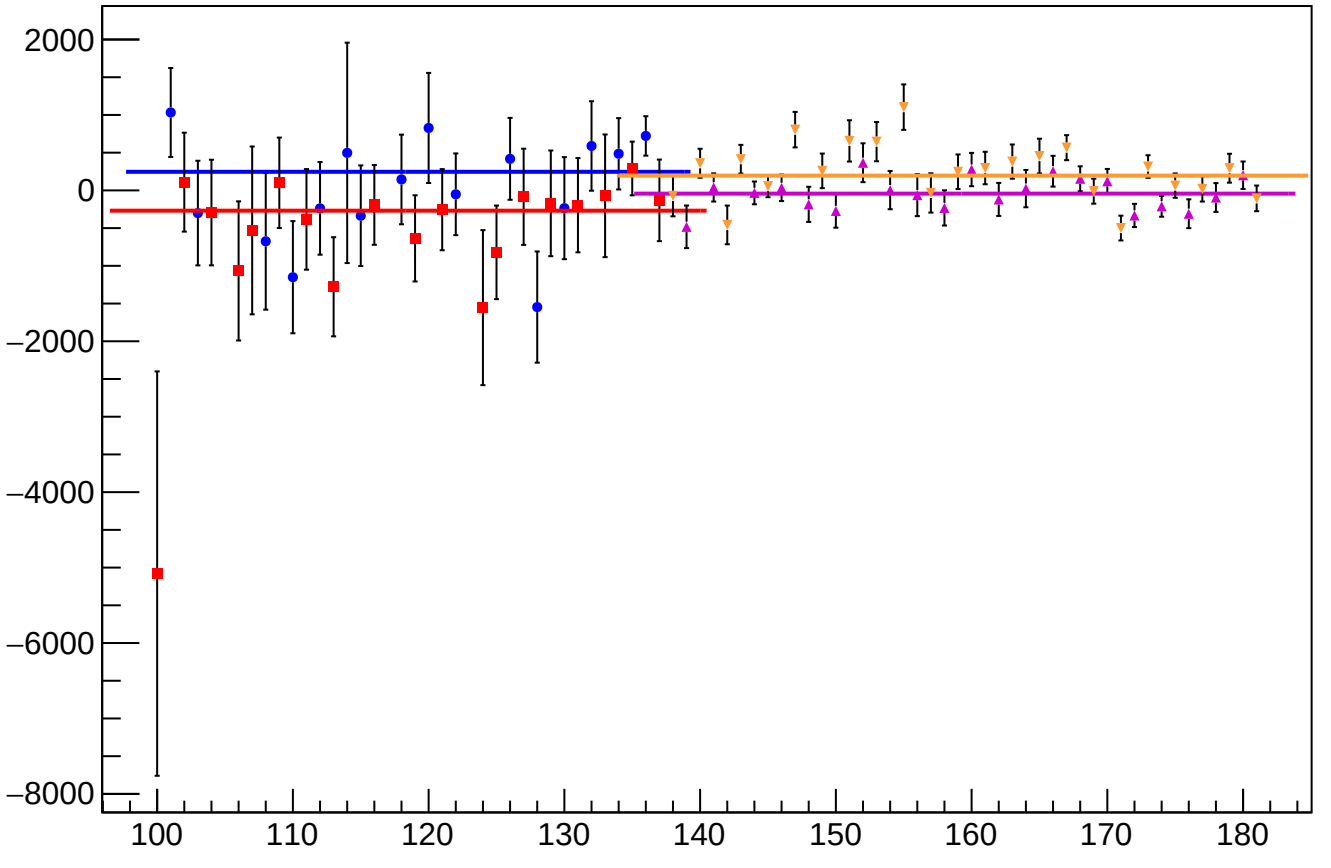
Left: 26.669+/-0.003 $\chi^2$/NDF: 1868112.7/43

Right: 35.199+/-0.007 $\chi^2$/NDF: 1440673.9/34

In: 28.248+/-0.004 $\chi^2$/NDF:1955027.5/36

Out: 28.324+/-0.004 $\chi^2$/NDF:2660511.0/41

All: 28.287+/-0.003 $\chi^2$/NDF: 4615706.7/78




Right In: 246.505+/-140.274 $\chi^2$/NDF: 19.8/15

Left Out: 195.923+/-41.150 $\chi^2$/NDF:65.4/22

Right Out: -268.913+/-145.295 $\chi^2$/NDF: 12.6/18

Left In: -42.992+/-42.491 $\chi^2$/NDF:23.2/20

Left: 80.296+/-29.560 $\chi^2$/NDF: 104.9/43

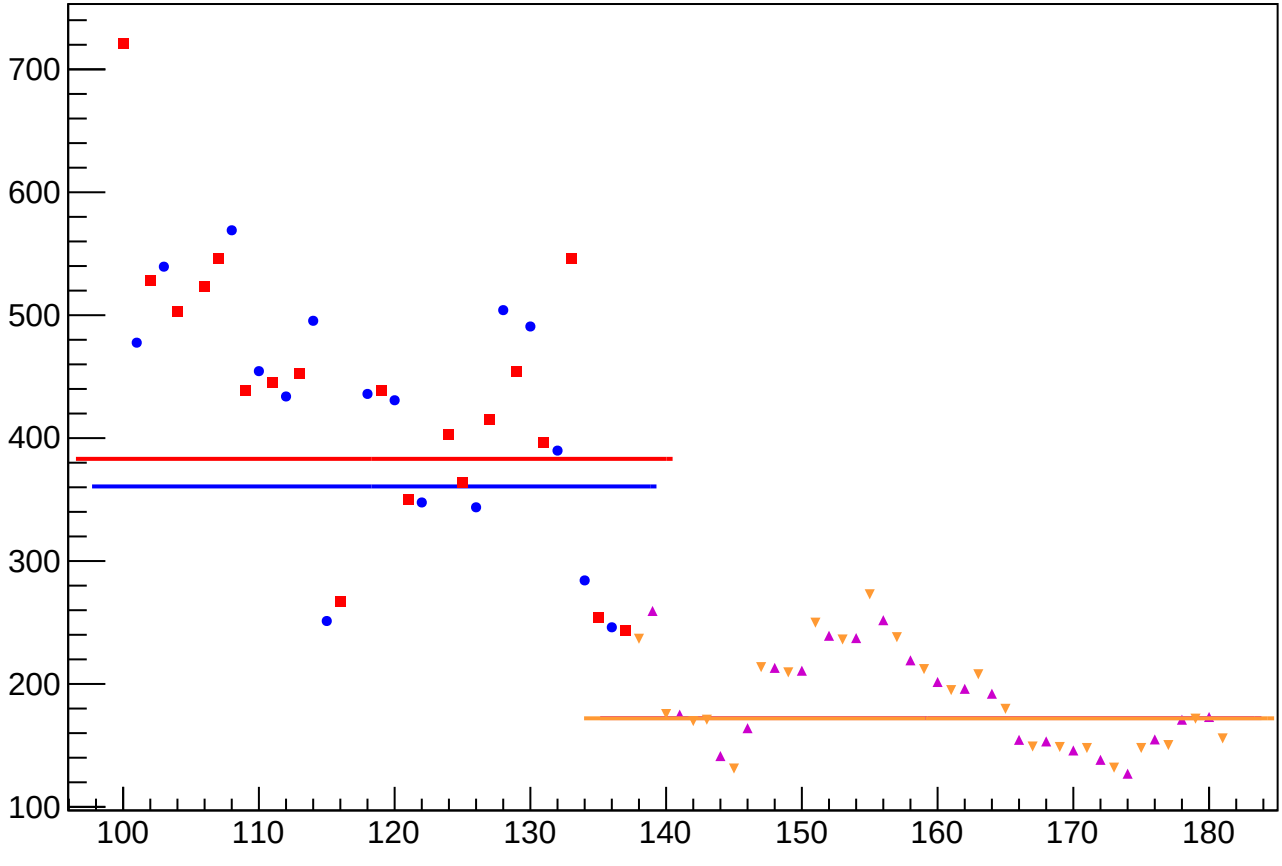
Right: -2.145+/-100.917 $\chi^2$/NDF: 38.9/34

In: -18.661+/-40.666 $\chi^2$/NDF:46.8/36

Out: 161.406+/-39.592 $\chi^2$/NDF:87.5/41

All: 73.782+/-28.368 $\chi^2$/NDF: 144.4/78

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 360.691+/-0.099 $\chi^2$/NDF: 1092752.5/15

Left Out: 172.040+/-0.029 $\chi^2$/NDF:1519485.6/22

Right Out: 383.131+/-0.103 $\chi^2$/NDF: 963120.8/18

Left In: 172.252+/-0.030 $\chi^2$/NDF:1406491.4/20

Left: 172.143+/-0.021 $\chi^2$/NDF: 2926002.7/43

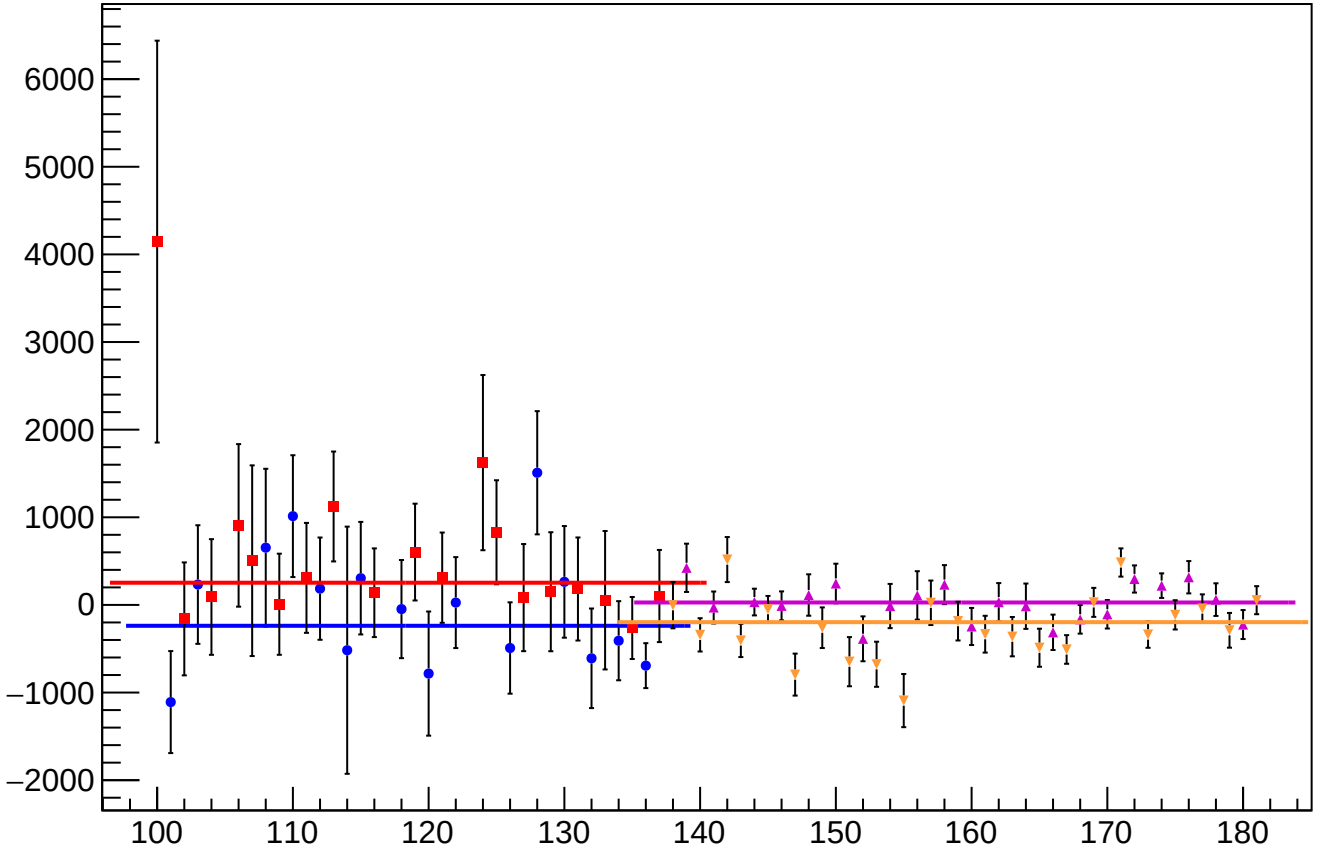
Right: 371.517+/-0.071 $\chi^2$/NDF: 2080563.7/34

In: 188.089+/-0.029 $\chi^2$/NDF:5805154.3/36

Out: 187.715+/-0.028 $\chi^2$/NDF:6390638.6/41

All: 187.897+/-0.020 $\chi^2$/NDF: 12195880.2/78

# asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected




Right In: -238.043+/-135.349 $\chi^2$/NDF: 19.9/15

Left Out: -196.705+/-40.899 $\chi^2$/NDF:63.7/22

Right Out: 253.445+/-140.414 $\chi^2$/NDF: 11.7/18

Left In: 27.809+/-41.876 $\chi^2$/NDF:23.1/20

Left: -87.097+/-29.259 $\chi^2$/NDF: 101.5/43

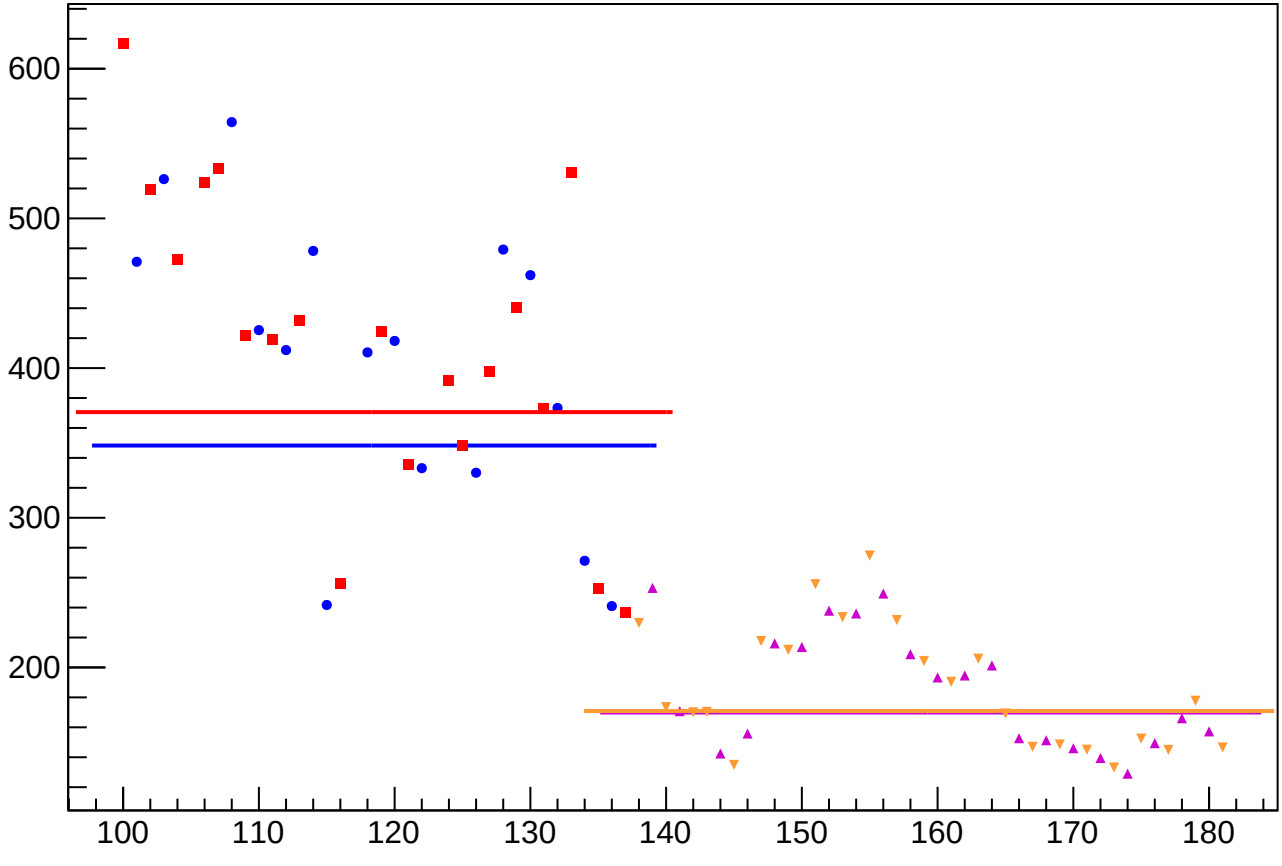
Right: -1.323+/-97.448 $\chi^2$/NDF: 38.0/34

In: 4.584+/-40.005 $\chi^2$/NDF:46.6/36

Out: -161.500+/-39.267 $\chi^2$/NDF:84.9/41

All: -80.004+/-28.024 $\chi^2$/NDF: 140.2/78

# asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected




Right In: 348.253+/-0.096 $\chi^2$/NDF: 1056820.3/15

Left Out: 170.880+/-0.029 $\chi^2$/NDF:1492839.7/22

Right Out: 370.585+/-0.099 $\chi^2$/NDF: 917913.5/18

Left In: 169.901+/-0.030 $\chi^2$/NDF:1365171.9/20

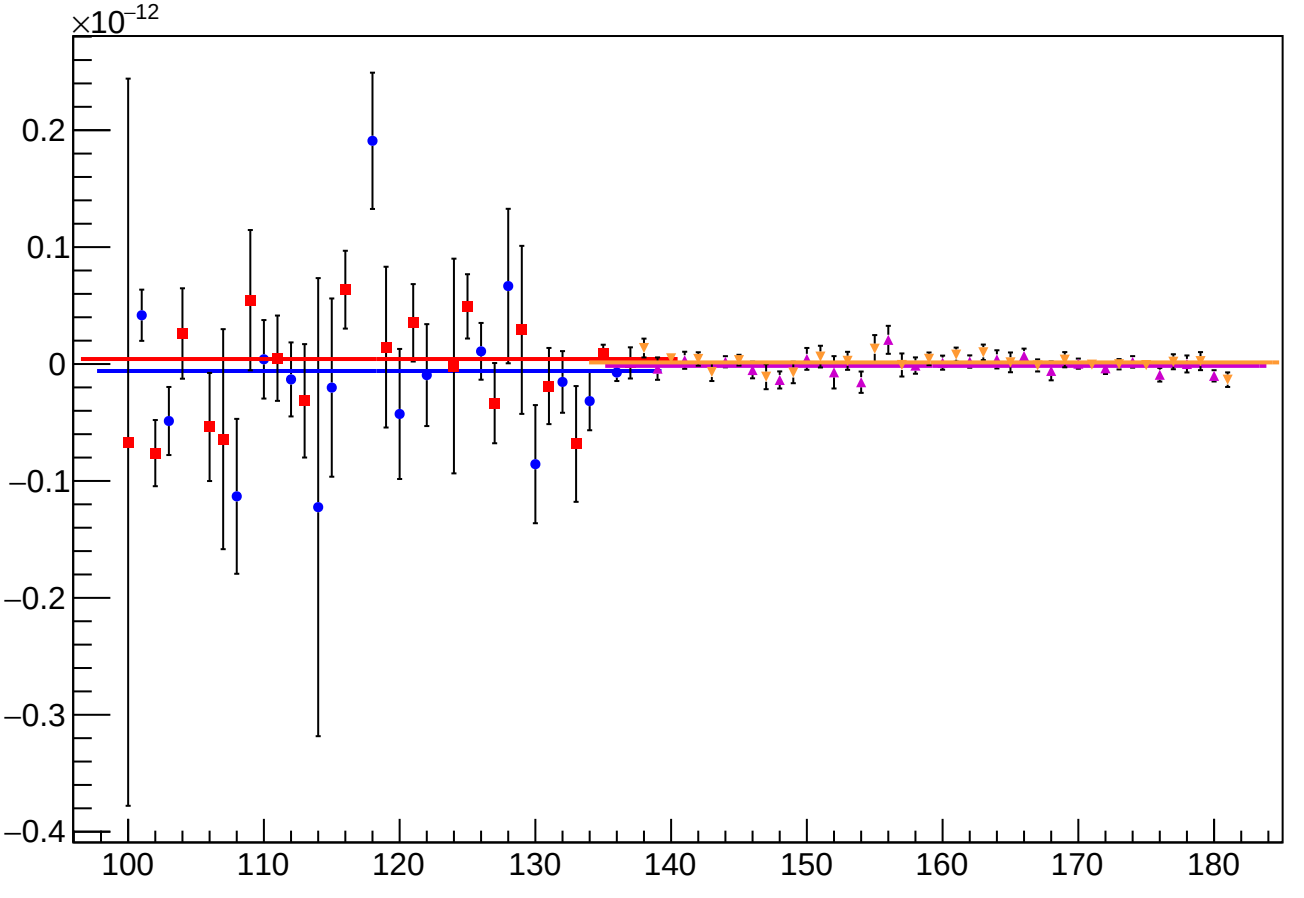
Left: 170.402+/-0.021 $\chi^2$/NDF: 2858571.3/43

Right: 359.009+/-0.069 $\chi^2$/NDF: 2000959.8/34

In: 185.482+/-0.028 $\chi^2$/NDF:5591364.2/36

Out: 186.498+/-0.028 $\chi^2$/NDF:6140009.8/41

All: 186.000+/-0.020 $\chi^2$/NDF: 11732031.2/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 27.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.4/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.4/20

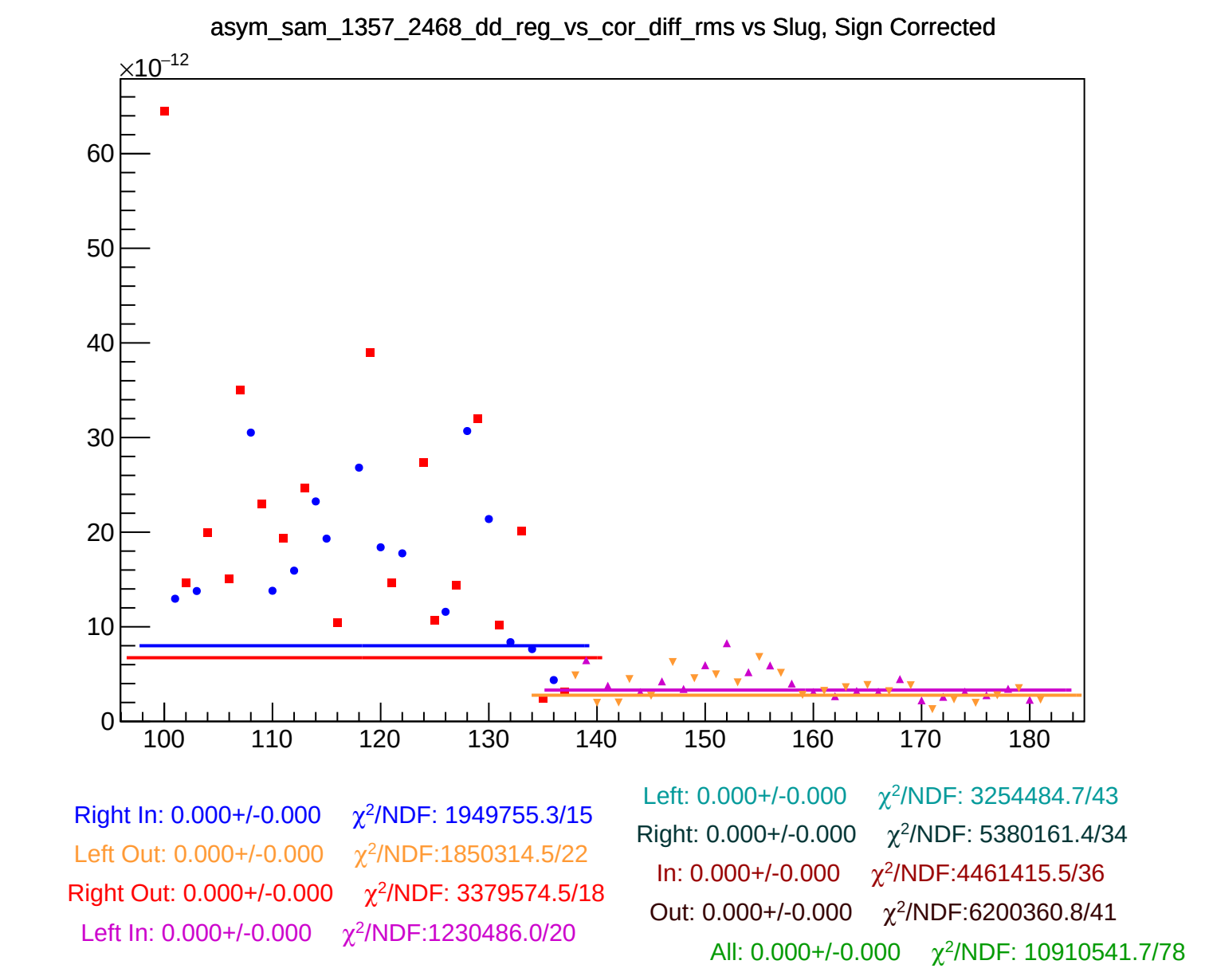
Left: 0.000+/-0.000 $\chi^2$/NDF: 40.4/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 51.9/34

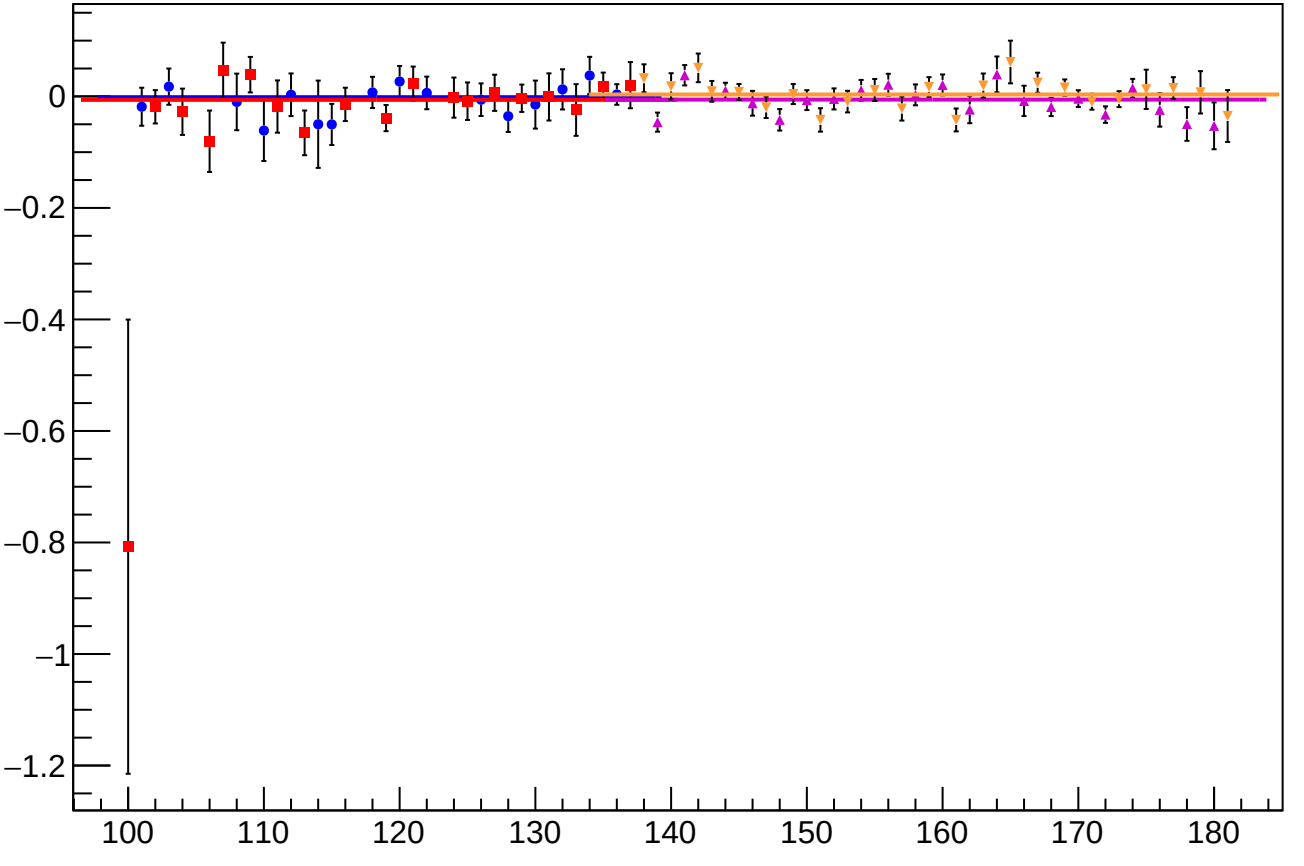
In: -0.000+/-0.000 $\chi^2$/NDF:47.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:41.7/41

All: 0.000+/-0.000 $\chi^2$/NDF: 92.4/78


asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
110
120
130
140
150
160
170
180
Right In: 0.000+/-0.000 χ²/NDF: 1949755.3/15
Left Out: 0.000+/-0.000 χ²/NDF:1850314.5/22
Right Out: 0.000+/-0.000 χ²/NDF: 3379574.5/18
Left In: 0.000+/-0.000 χ²/NDF:1230486.0/20
Left: 0.000+/-0.000 χ²/NDF: 3254484.7/43
Right: 0.000+/-0.000 χ²/NDF: 5380161.4/34
In: 0.000+/-0.000 χ²/NDF:4461415.5/36
Out: 0.000+/-0.000 χ²/NDF:6200360.8/41
All: 0.000+/-0.000 χ²/NDF: 10910541.7/78

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.003+/-0.004 $\chi^2$/NDF:26.3/22

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: -0.006+/-0.004 $\chi^2$/NDF:32.7/20

Left: -0.001+/-0.003 $\chi^2$/NDF: 61.4/43

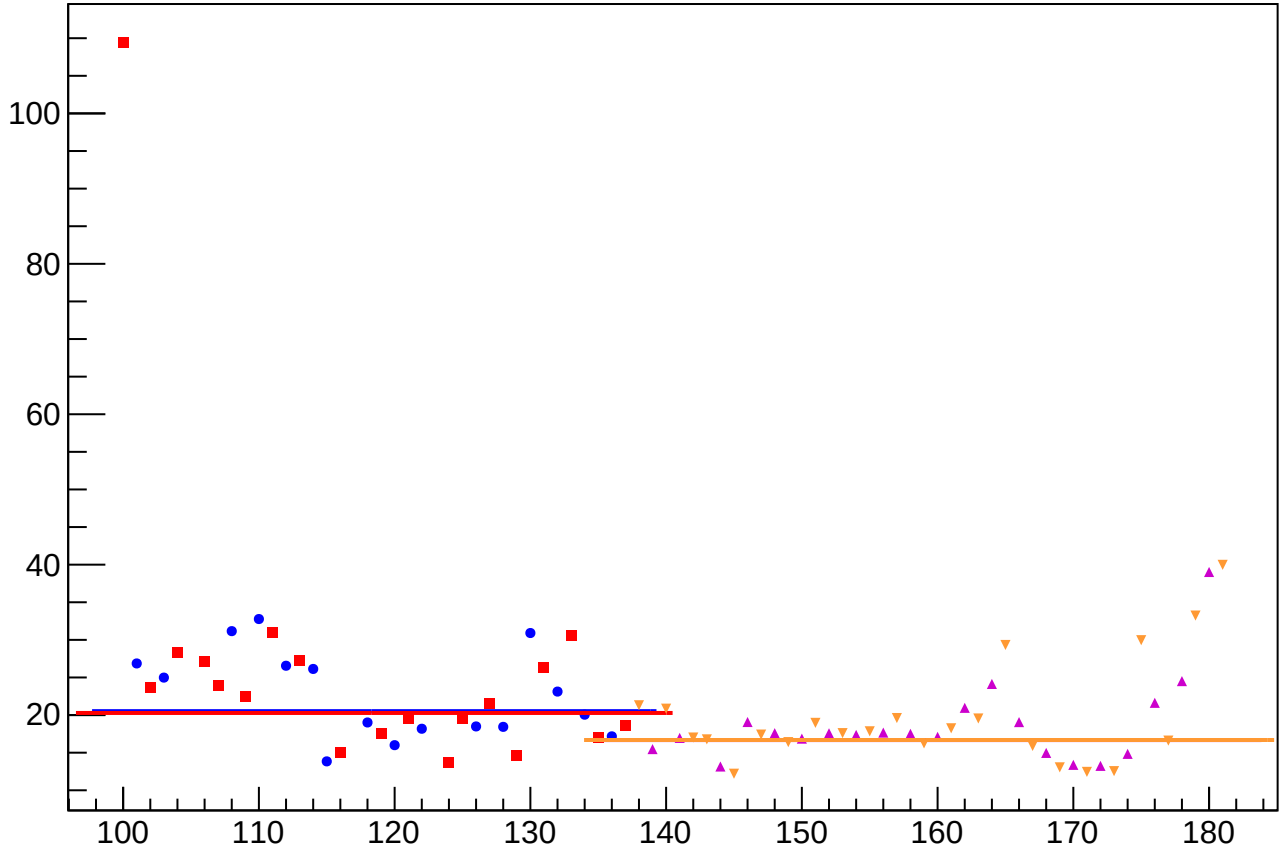
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.005+/-0.004 $\chi^2$/NDF:41.2/36

Out: 0.001+/-0.004 $\chi^2$/NDF:43.7/41

All: -0.002+/-0.003 $\chi^2$/NDF: 86.3/78

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.522+/-0.006 $\chi^2$/NDF: 705998.4/15

Left Out: 16.686+/-0.003 $\chi^2$/NDF:2311212.4/22

Right Out: 20.282+/-0.006 $\chi^2$/NDF: 864352.6/18

Left In: 16.677+/-0.003 $\chi^2$/NDF:1364623.5/20

Left: 16.682+/-0.002 $\chi^2$/NDF: 3675841.6/43

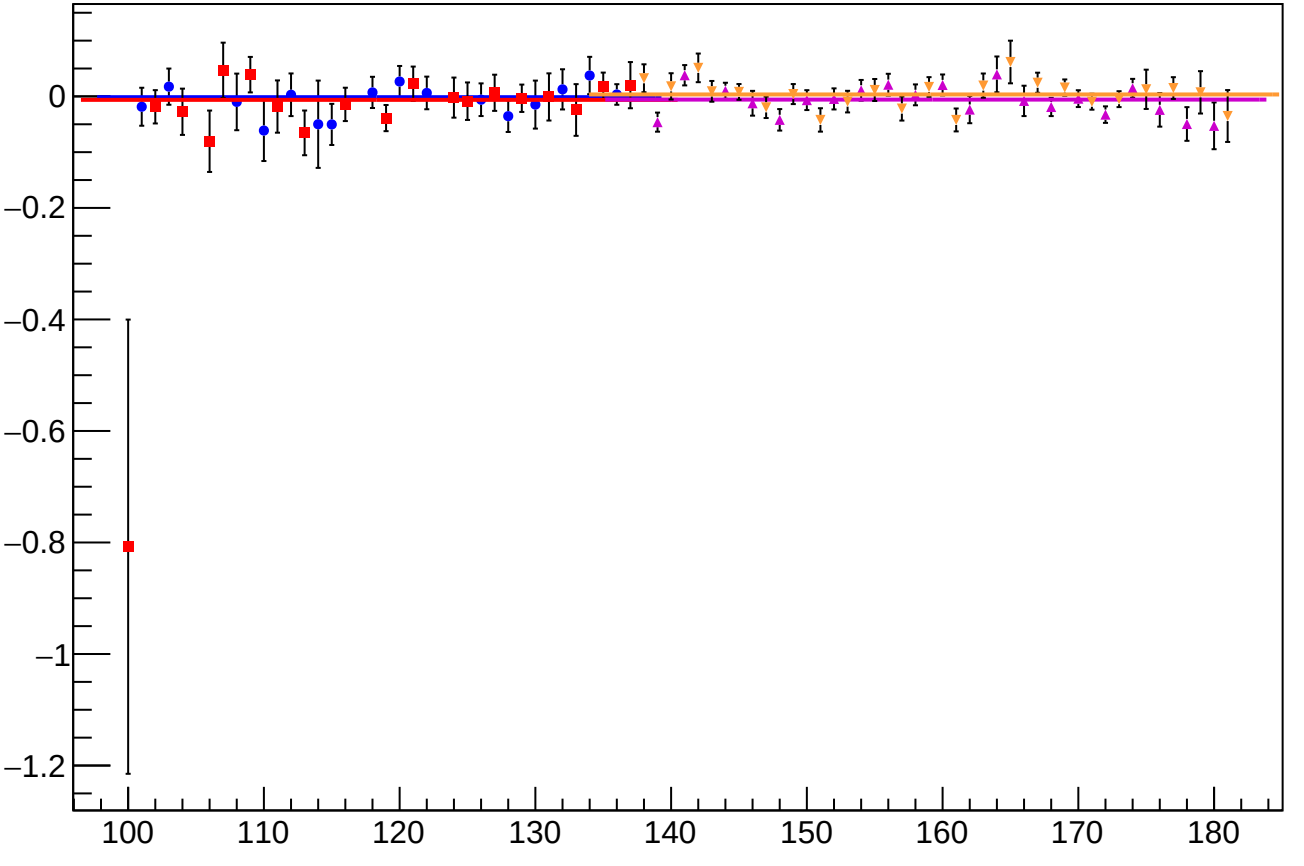
Right: 20.399+/-0.004 $\chi^2$/NDF: 1571258.3/34

In: 17.505+/-0.003 $\chi^2$/NDF:2427746.9/36

Out: 17.458+/-0.003 $\chi^2$/NDF:3502236.9/41

All: 17.481+/-0.002 $\chi^2$/NDF: 5930144.3/78

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.003+/-0.004 $\chi^2$/NDF:26.3/22

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: -0.006+/-0.004 $\chi^2$/NDF:32.7/20

Left: -0.001+/-0.003 $\chi^2$/NDF: 61.4/43

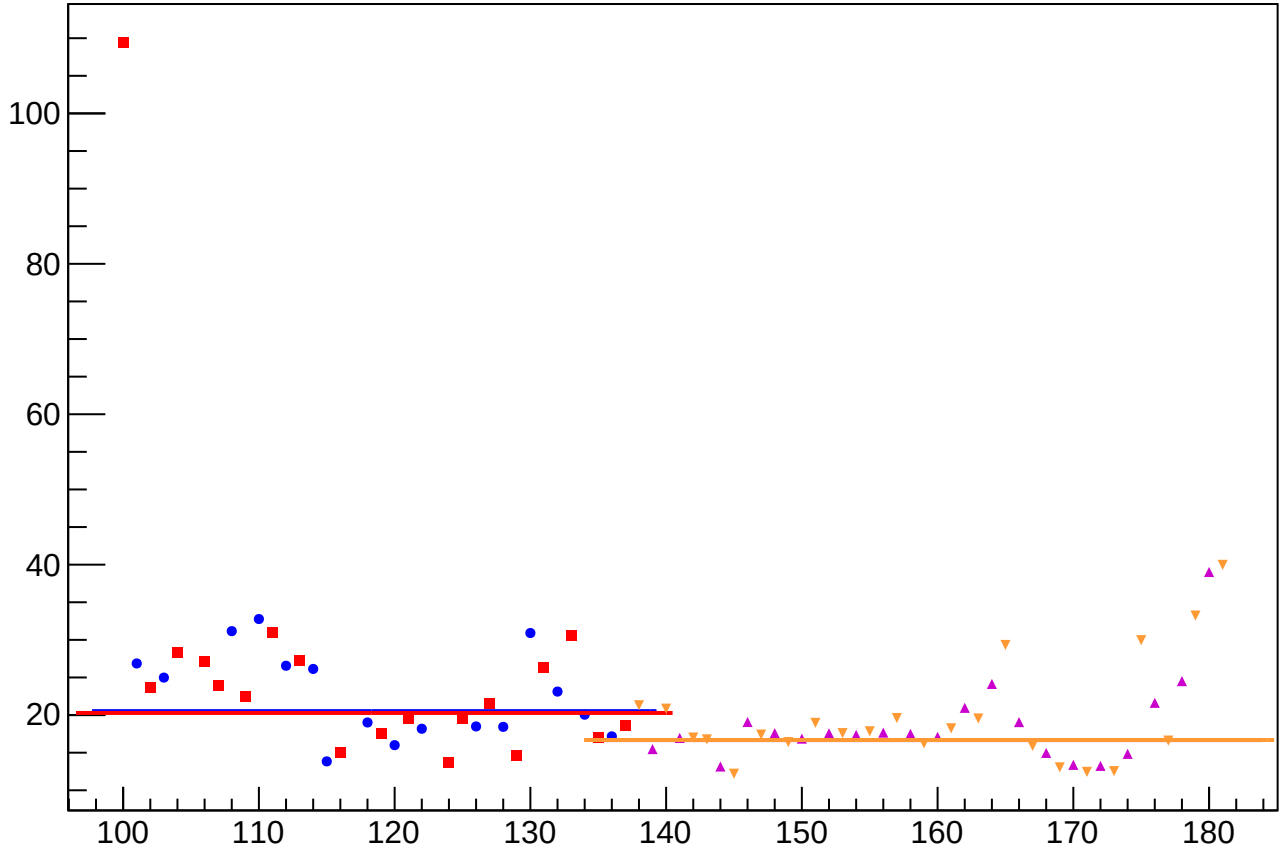
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.005+/-0.004 $\chi^2$/NDF:41.2/36

Out: 0.001+/-0.004 $\chi^2$/NDF:43.7/41

All: -0.002+/-0.003 $\chi^2$/NDF: 86.3/78

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.522+/-0.006 $\chi^2$/NDF: 705998.4/15

Left Out: 16.686+/-0.003 $\chi^2$/NDF:2311212.4/22

Right Out: 20.282+/-0.006 $\chi^2$/NDF: 864352.6/18

Left In: 16.677+/-0.003 $\chi^2$/NDF:1364623.5/20

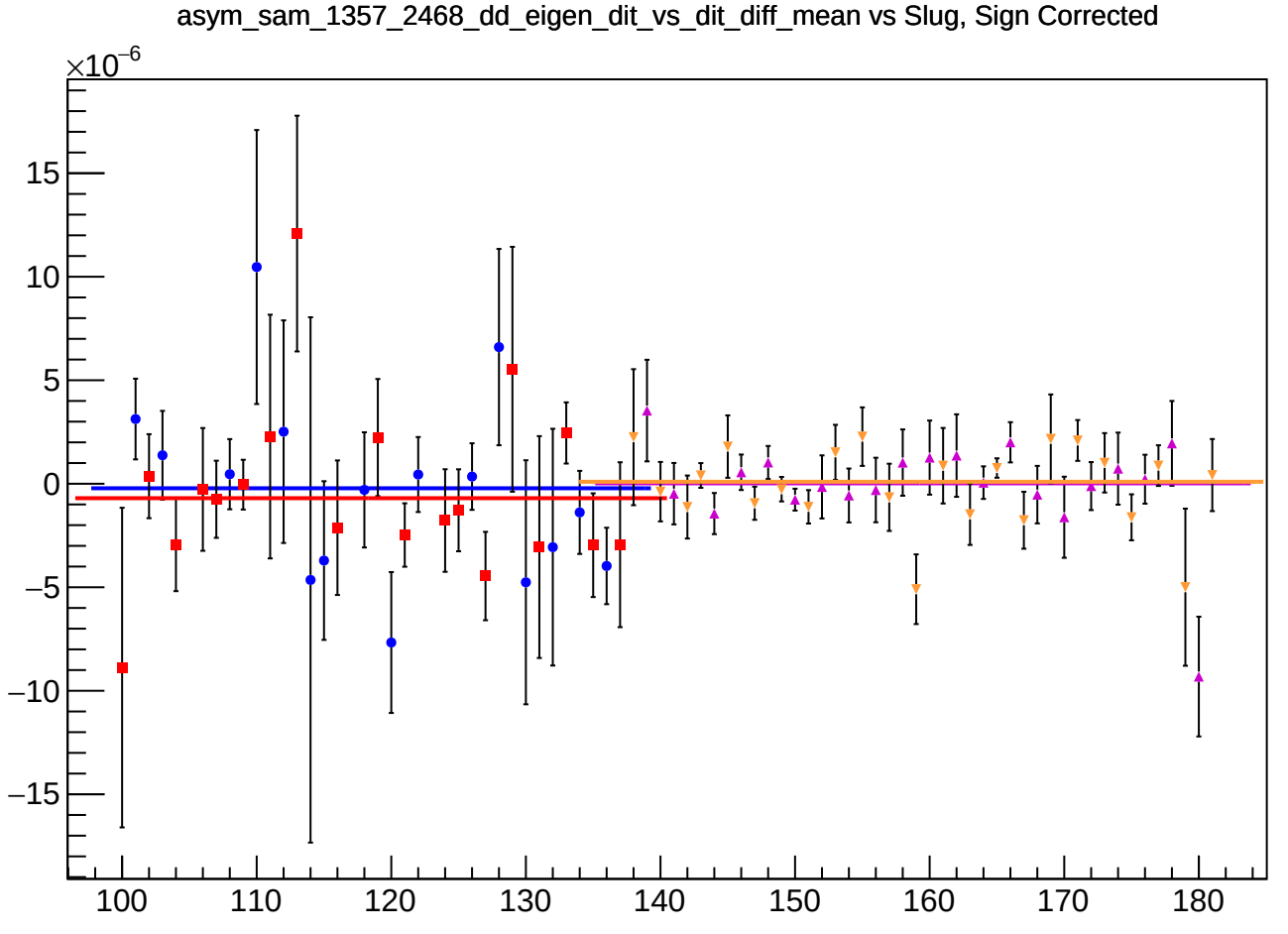
Left: 16.682+/-0.002 $\chi^2$/NDF: 3675841.6/43

Right: 20.399+/-0.004 $\chi^2$/NDF: 1571258.3/34

In: 17.505+/-0.003 $\chi^2$/NDF:2427746.9/36

Out: 17.458+/-0.003 $\chi^2$/NDF:3502236.9/41

All: 17.481+/-0.002 $\chi^2$/NDF: 5930144.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:35.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.7/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 62.4/43

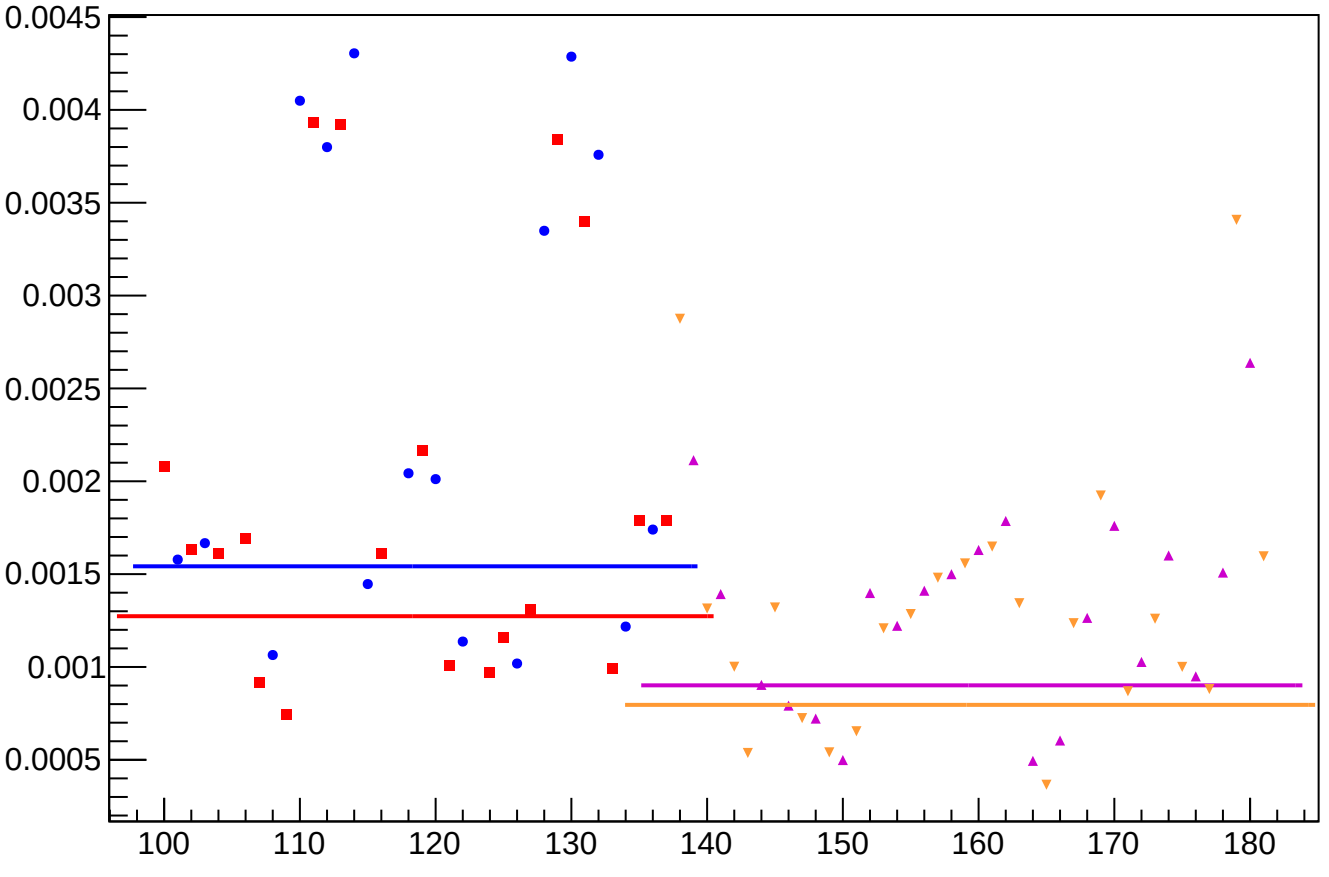
Right: -0.000+/-0.000 $\chi^2$/NDF: 41.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:46.7/36

Out: -0.000+/-0.000 $\chi^2$/NDF:58.7/41

All: -0.000+/-0.000 $\chi^2$/NDF: 105.4/78

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2416805.2/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:8197016.8/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2667436.5/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:6049654.2/20

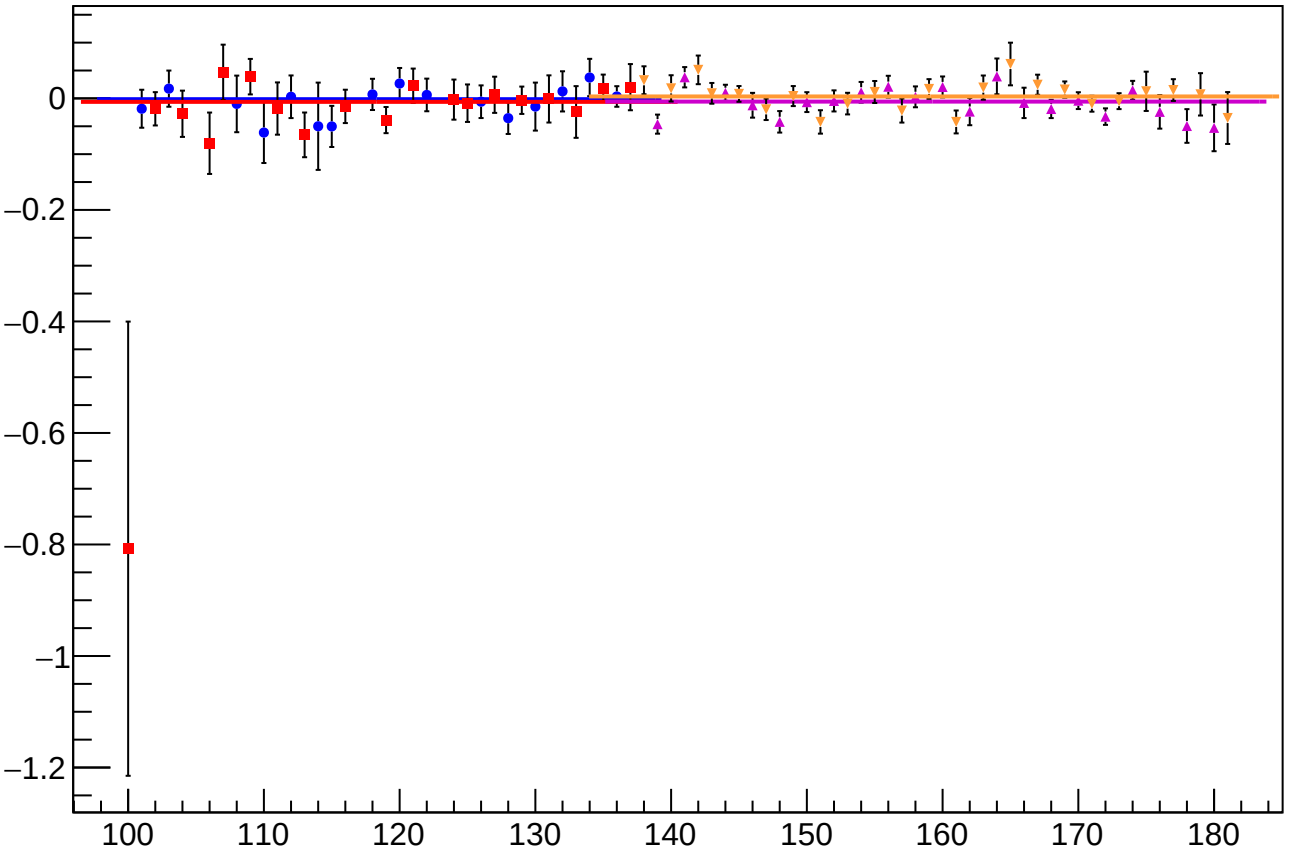
Left: 0.001+/-0.000 $\chi^2$/NDF: 14452098.4/43

Right: 0.001+/-0.000 $\chi^2$/NDF: 5298926.0/34

In: 0.001+/-0.000 $\chi^2$/NDF:10254056.0/36

Out: 0.001+/-0.000 $\chi^2$/NDF:12286969.1/41

All: 0.001+/-0.000 $\chi^2$/NDF: 22868456.5/78




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.003+/-0.004 $\chi^2$/NDF:26.3/22

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: -0.006+/-0.004 $\chi^2$/NDF:32.7/20

Left: -0.001+/-0.003 $\chi^2$/NDF: 61.4/43

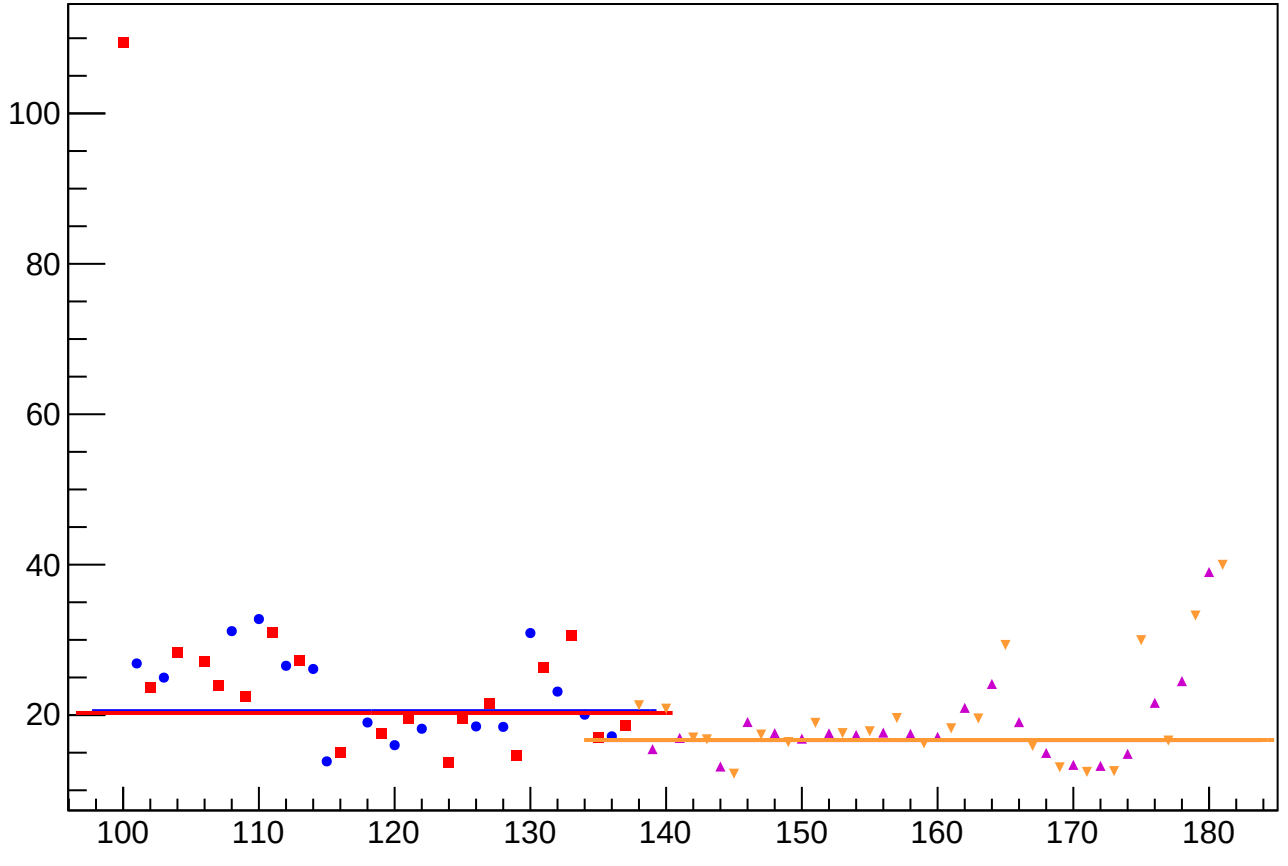
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.005+/-0.004 $\chi^2$/NDF:41.2/36

Out: 0.001+/-0.004 $\chi^2$/NDF:43.7/41

All: -0.002+/-0.003 $\chi^2$/NDF: 86.3/78

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.521+/-0.006 $\chi^2$/NDF: 705877.0/15

Left Out: 16.687+/-0.003 $\chi^2$/NDF:2311201.2/22

Right Out: 20.281+/-0.006 $\chi^2$/NDF: 864361.2/18

Left In: 16.677+/-0.003 $\chi^2$/NDF:1364612.1/20

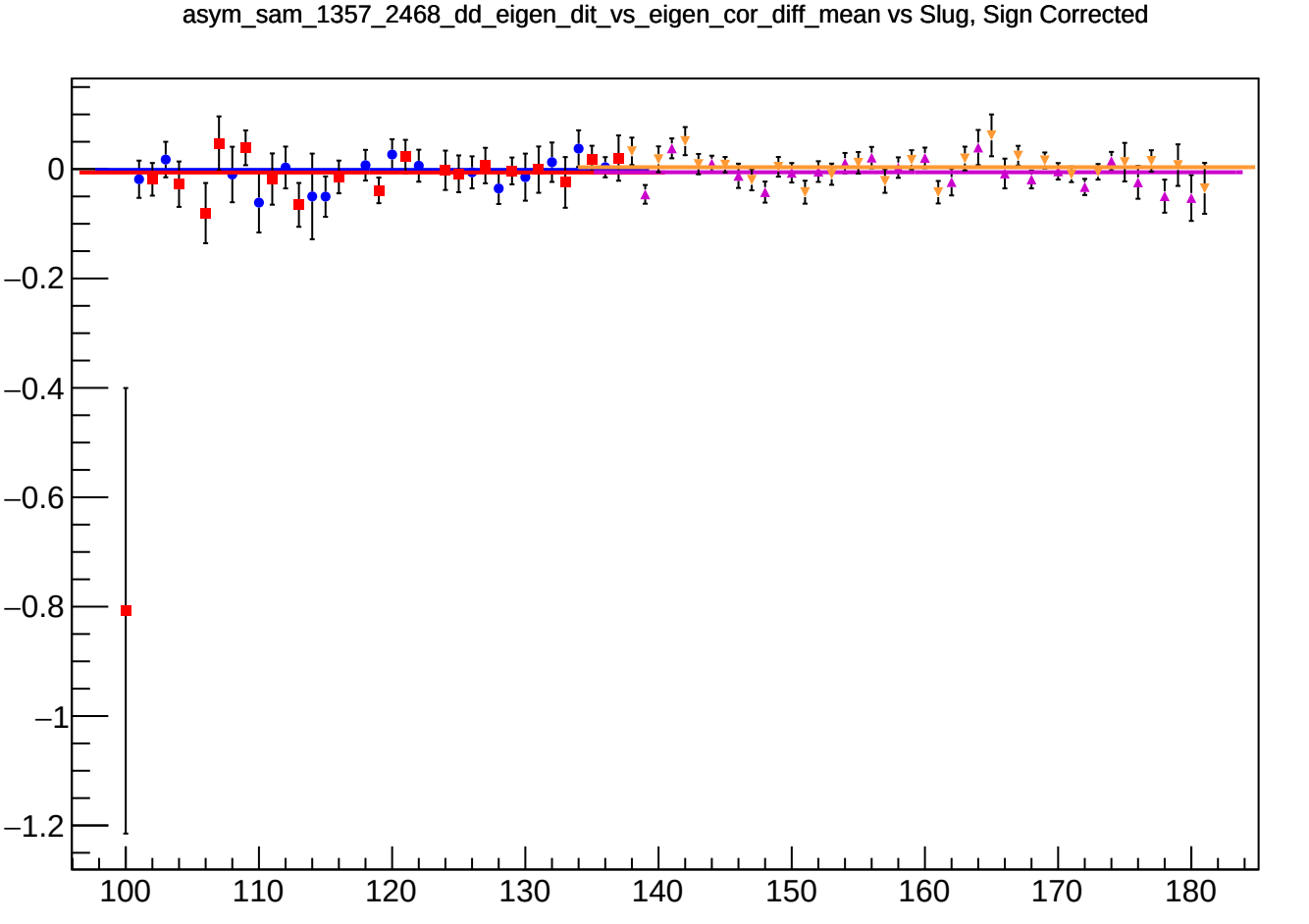
Left: 16.682+/-0.002 $\chi^2$/NDF: 3675819.1/43

Right: 20.398+/-0.004 $\chi^2$/NDF: 1571146.6/34

In: 17.505+/-0.003 $\chi^2$/NDF:2427500.2/36

Out: 17.458+/-0.003 $\chi^2$/NDF:3502086.2/41

All: 17.481+/-0.002 $\chi^2$/NDF: 5929746.7/78




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.003+/-0.004 $\chi^2$/NDF:26.3/22

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: -0.006+/-0.004 $\chi^2$/NDF:32.7/20

Left: -0.001+/-0.003 $\chi^2$/NDF: 61.4/43

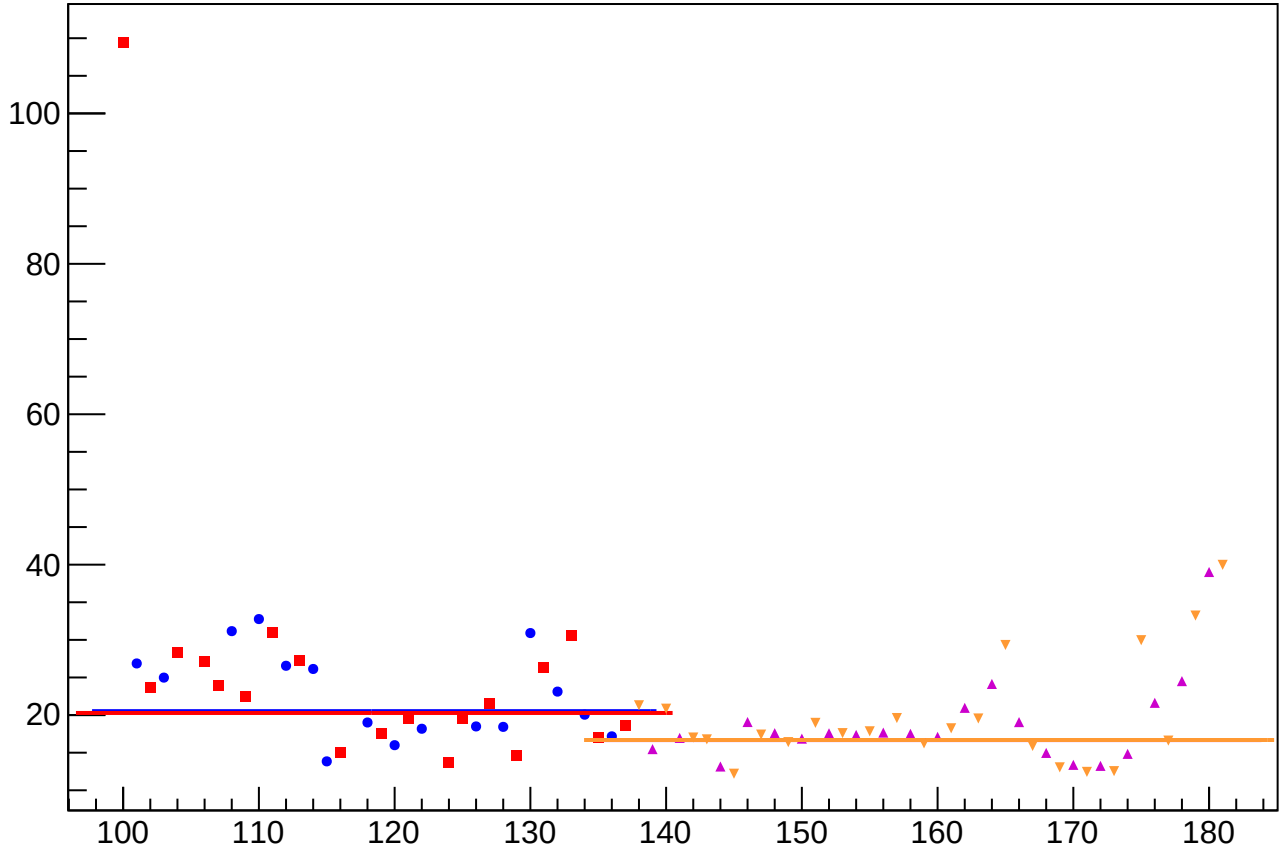
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.005+/-0.004 $\chi^2$/NDF:41.2/36

Out: 0.001+/-0.004 $\chi^2$/NDF:43.7/41

All: -0.002+/-0.003 $\chi^2$/NDF: 86.3/78

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.521+/-0.006 $\chi^2$/NDF: 705877.0/15

Left Out: 16.687+/-0.003 $\chi^2$/NDF:2311201.2/22

Right Out: 20.281+/-0.006 $\chi^2$/NDF: 864361.2/18

Left In: 16.677+/-0.003 $\chi^2$/NDF:1364612.1/20

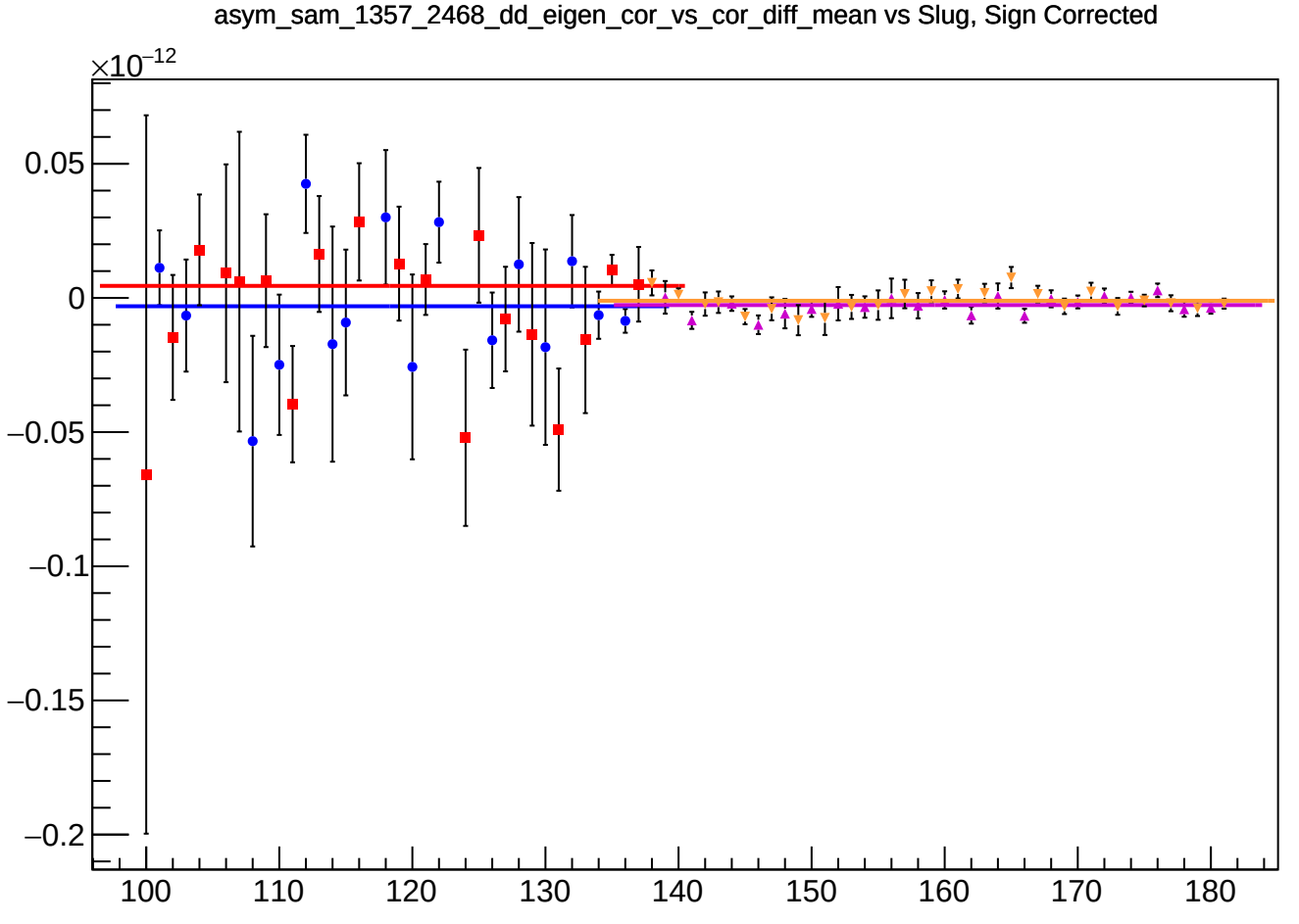
Left: 16.682+/-0.002 $\chi^2$/NDF: 3675819.1/43

Right: 20.398+/-0.004 $\chi^2$/NDF: 1571146.6/34

In: 17.505+/-0.003 $\chi^2$/NDF:2427500.2/36

Out: 17.458+/-0.003 $\chi^2$/NDF:3502086.2/41

All: 17.481+/-0.002 $\chi^2$/NDF: 5929746.7/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:23.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.5/20

Left: -0.000+/-0.000 $\chi^2$/NDF: 48.3/43

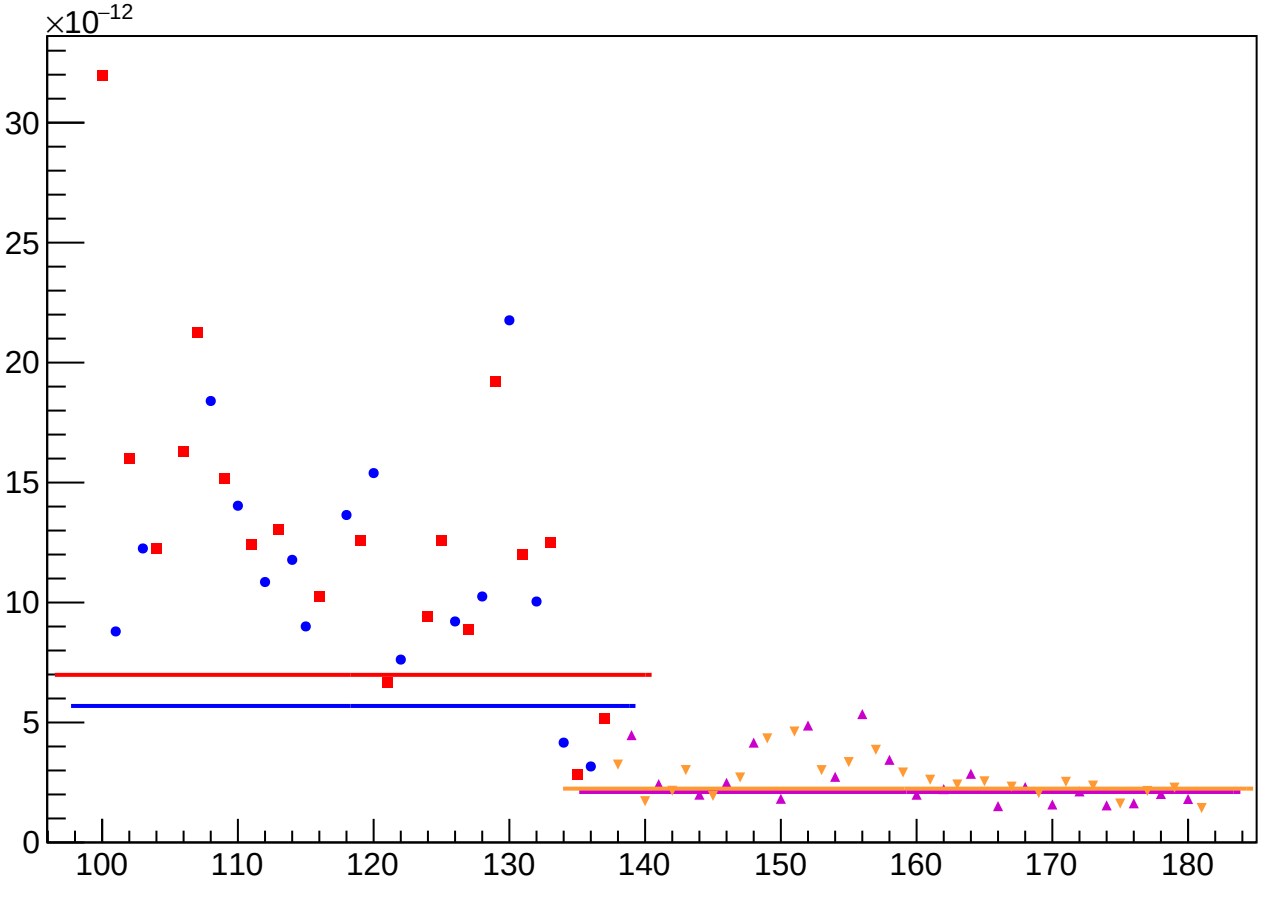
Right: 0.000+/-0.000 $\chi^2$/NDF: 40.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:42.4/36

Out: -0.000+/-0.000 $\chi^2$/NDF:43.6/41

All: -0.000+/-0.000 $\chi^2$/NDF: 89.7/78

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2705902.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1858910.0/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3108073.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2153481.1/20

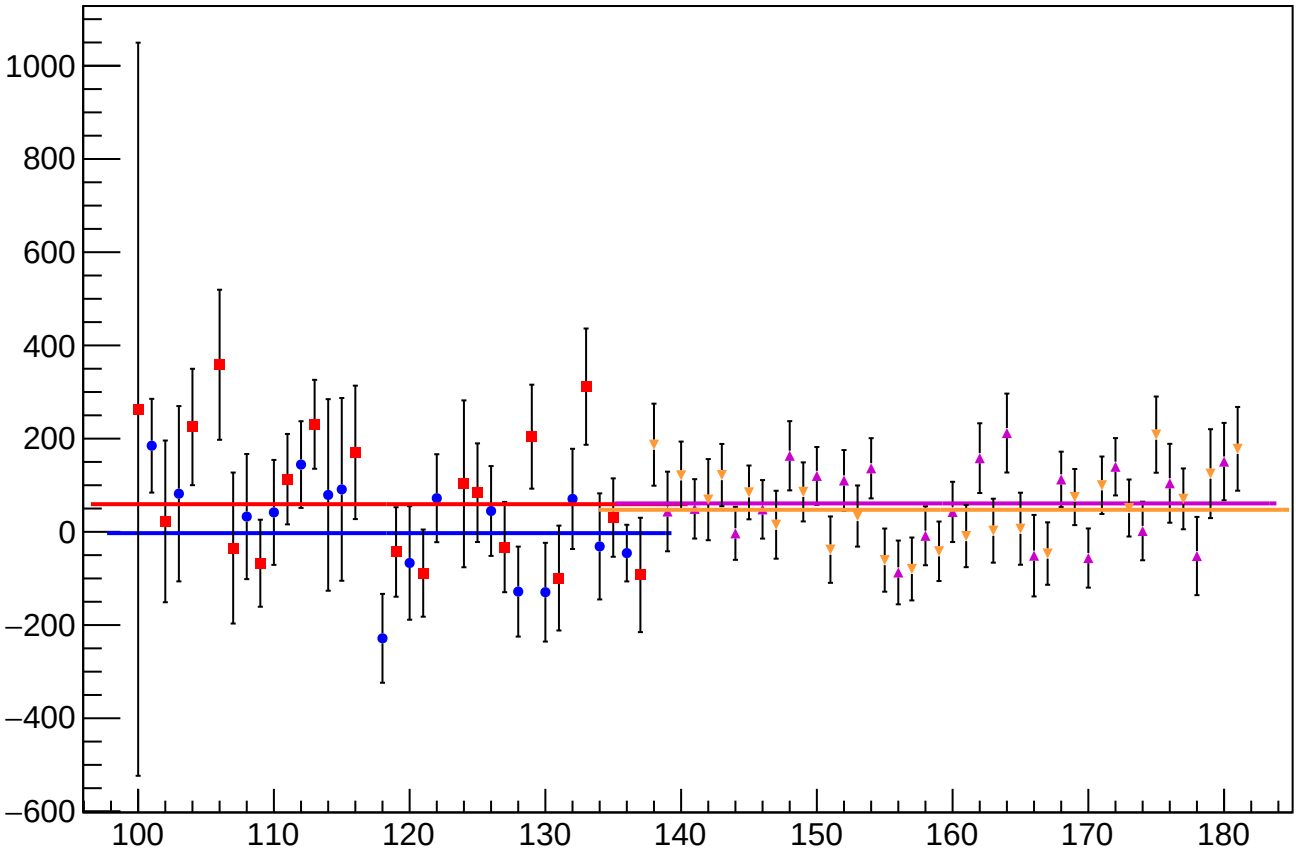
Left: 0.000+/-0.000 $\chi^2$/NDF: 4054044.9/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5945633.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:7181536.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7887177.4/41

All: 0.000+/-0.000 $\chi^2$/NDF: 15107351.4/78




Right In: -2.766+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 47.298+/-14.469 $\chi^2$/NDF:26.5/22

Right Out: 59.349+/-26.382 $\chi^2$/NDF: 25.7/18

Left In: 60.983+/-14.926 $\chi^2$/NDF:28.5/20

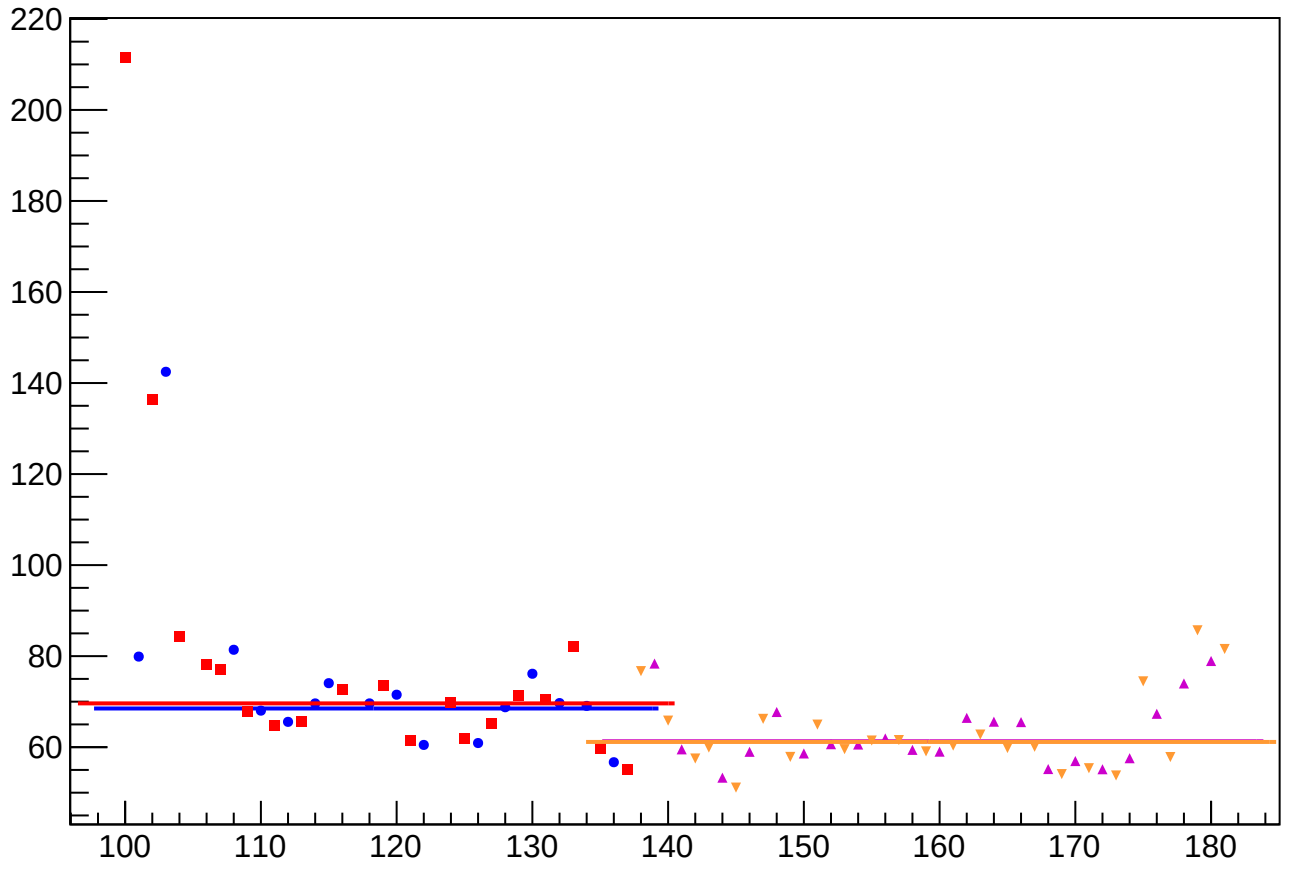
Left: 53.928+/-10.389 $\chi^2$/NDF: 55.4/43

Right: 28.091+/-18.595 $\chi^2$/NDF: 46.2/34

In: 45.375+/-12.970 $\chi^2$/NDF:50.7/36

Out: 50.085+/-12.686 $\chi^2$/NDF:52.3/41

All: 47.782+/-9.069 $\chi^2$/NDF: 103.1/78




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471865.0/15

Left Out: 61.150+/-0.010 $\chi^2$/NDF:530053.8/22

Right Out: 69.620+/-0.019 $\chi^2$/NDF: 520403.9/18

Left In: 61.301+/-0.011 $\chi^2$/NDF:370038.0/20

Left: 61.223+/-0.007 $\chi^2$/NDF: 900198.1/43

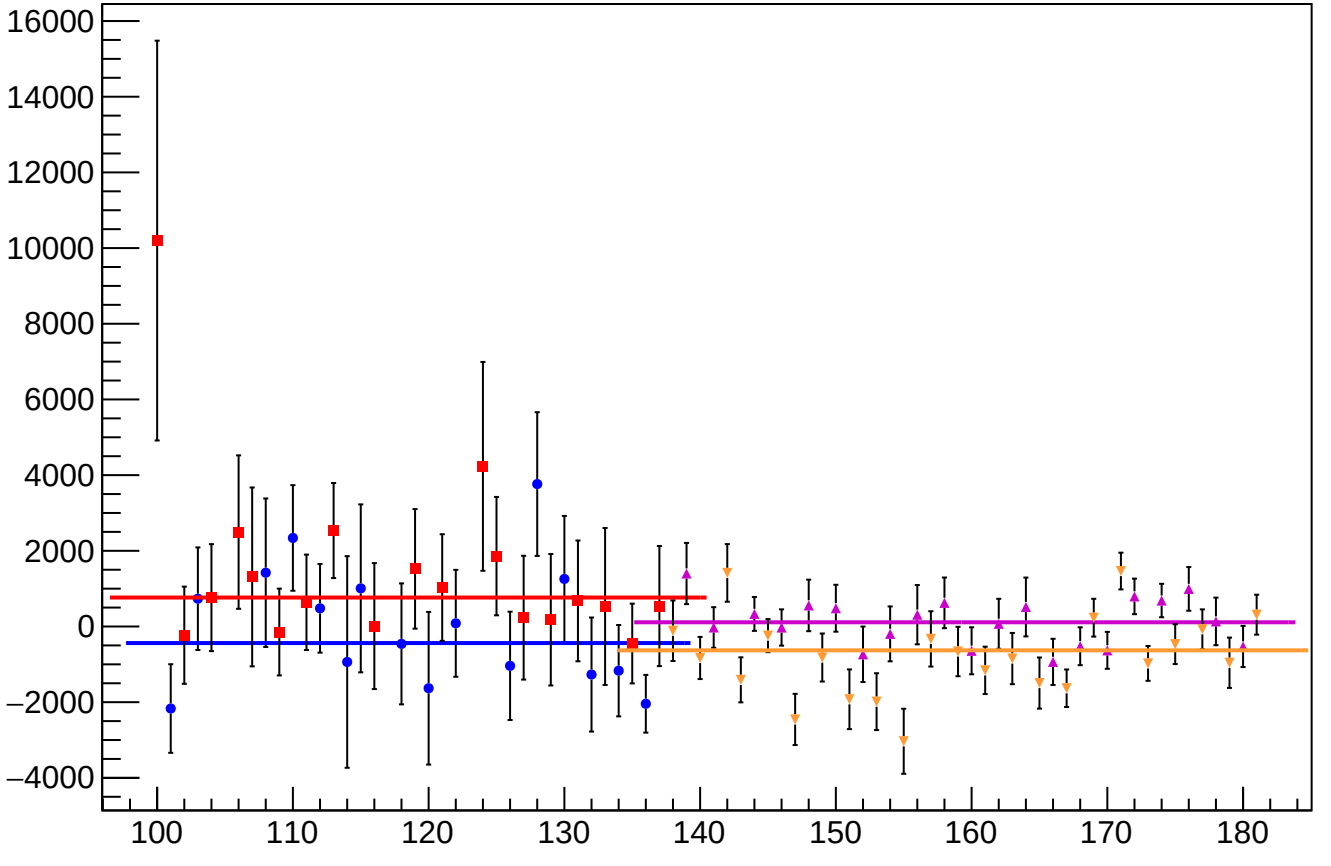
Right: 69.056+/-0.013 $\chi^2$/NDF: 994086.4/34

In: 63.063+/-0.009 $\chi^2$/NDF:955764.4/36

Out: 63.108+/-0.009 $\chi^2$/NDF:1208936.5/41

All: 63.086+/-0.006 $\chi^2$/NDF: 2164713.1/78

asym_sam_12345678_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -437.444+/-348.880 $\chi^2$/NDF: 20.6/15

Left Out: -629.893+/-123.783 $\chi^2$/NDF:65.0/22

Right Out: 765.341+/-353.052 $\chi^2$/NDF: 11.3/18

Left In: 111.354+/-126.276 $\chi^2$/NDF:22.0/20

Left: -266.660+/-88.396 $\chi^2$/NDF: 104.5/43

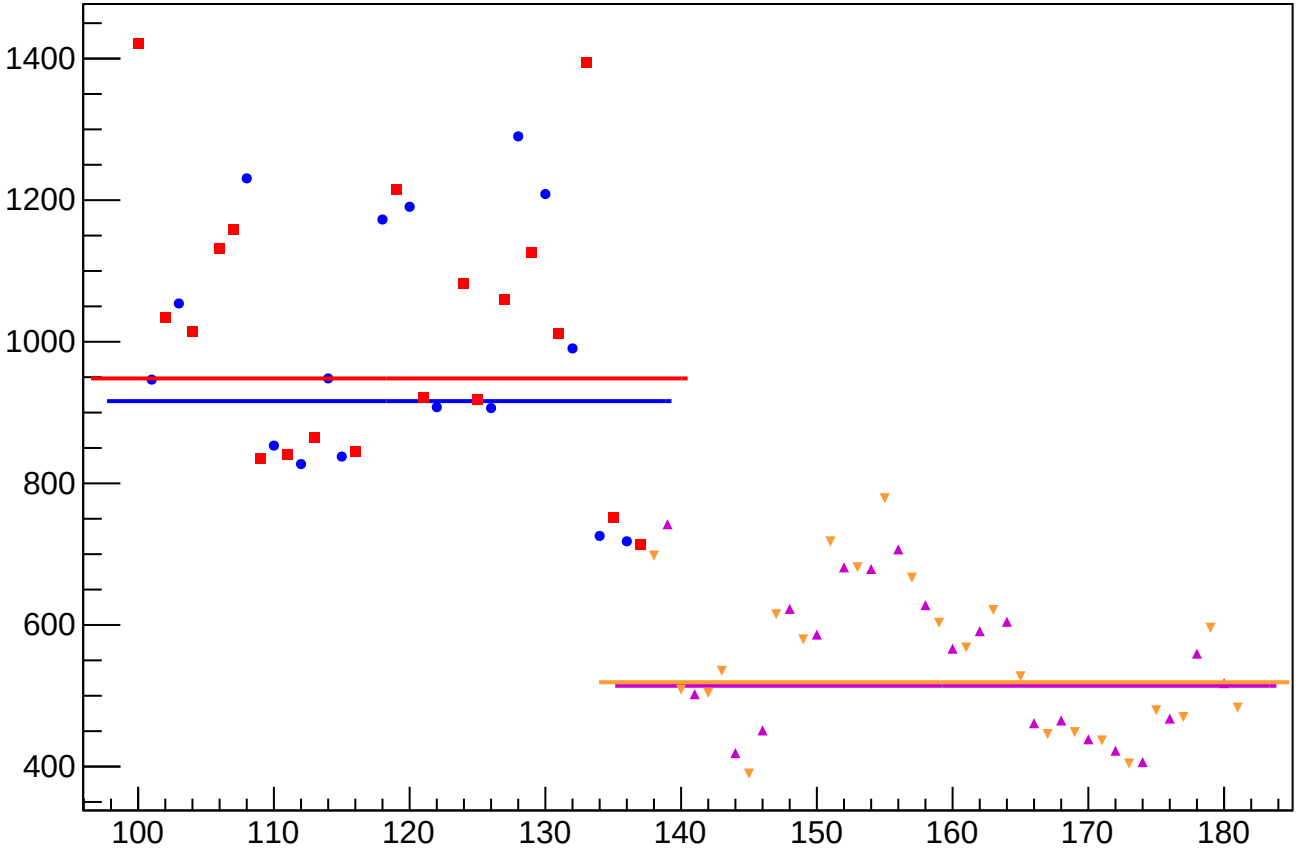
Right: 156.799+/-248.157 $\chi^2$/NDF: 37.7/34

In: 47.786+/-118.738 $\chi^2$/NDF:44.7/36

Out: -477.158+/-116.811 $\chi^2$/NDF:90.2/41

All: -218.979+/-83.271 $\chi^2$/NDF: 144.9/78

asym_sam_12345678_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 916.171+/-0.247 $\chi^2$/NDF: 509126.4/15

Left Out: 519.086+/-0.088 $\chi^2$/NDF:1242810.3/22

Right Out: 948.235+/-0.250 $\chi^2$/NDF: 415192.3/18

Left In: 514.147+/-0.089 $\chi^2$/NDF:1118867.0/20

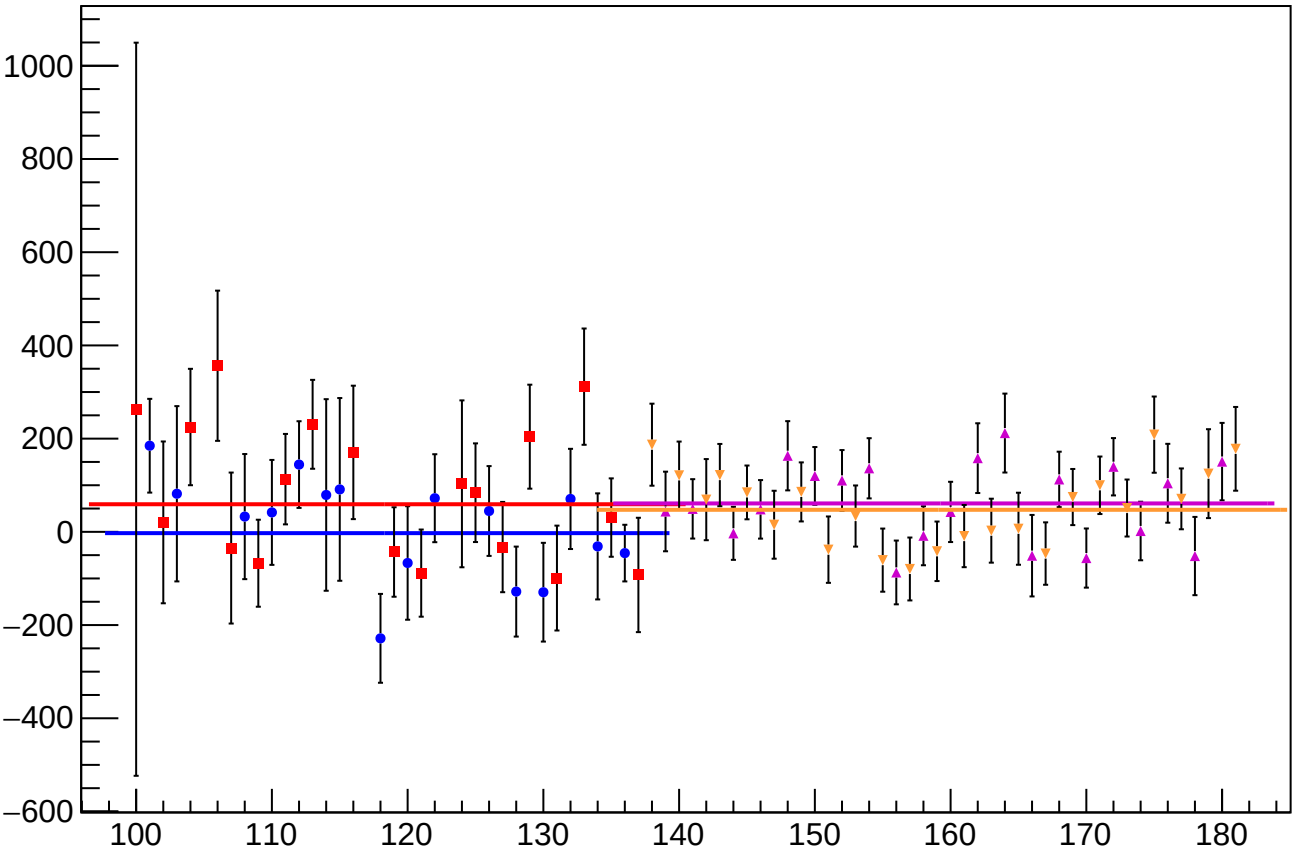
Left: 516.666+/-0.063 $\chi^2$/NDF: 2363237.6/43

Right: 932.012+/-0.175 $\chi^2$/NDF: 932665.3/34

In: 560.714+/-0.084 $\chi^2$/NDF:3976088.4/36

Out: 566.065+/-0.083 $\chi^2$/NDF:4289587.5/41

All: 563.433+/-0.059 $\chi^2$/NDF: 8267739.7/78




Right In: -2.773+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 47.301+/-14.469 $\chi^2$/NDF:26.5/22

Right Out: 59.226+/-26.384 $\chi^2$/NDF: 25.7/18

Left In: 60.983+/-14.926 $\chi^2$/NDF:28.5/20

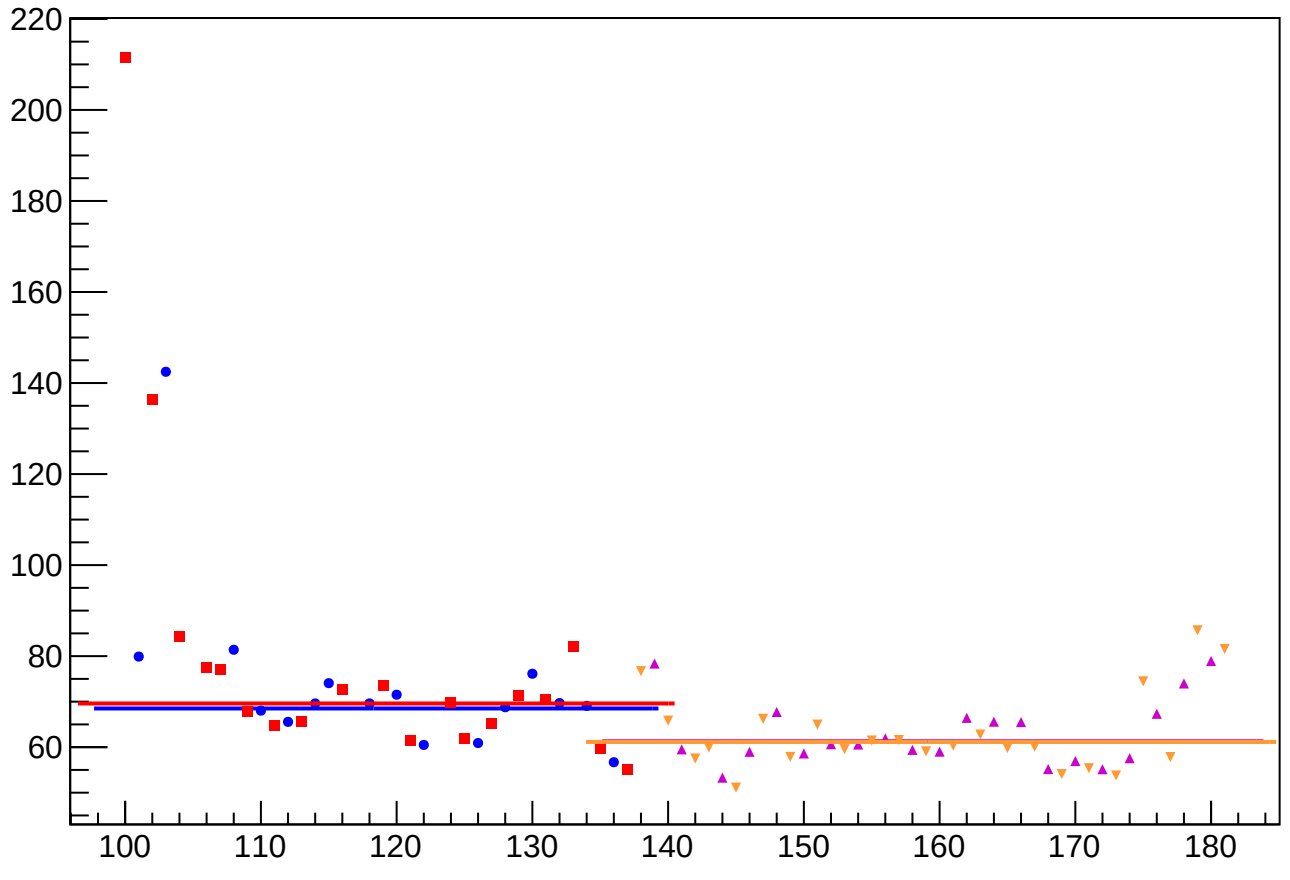
Left: 53.929+/-10.389 $\chi^2$/NDF: 55.4/43

Right: 28.026+/-18.595 $\chi^2$/NDF: 46.1/34

In: 45.373+/-12.970 $\chi^2$/NDF:50.7/36

Out: 50.059+/-12.686 $\chi^2$/NDF:52.3/41

All: 47.768+/-9.069 $\chi^2$/NDF: 103.0/78




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471868.0/15

Left Out: 61.150+/-0.010 $\chi^2$/NDF:530053.8/22

Right Out: 69.600+/-0.019 $\chi^2$/NDF: 519788.9/18

Left In: 61.301+/-0.011 $\chi^2$/NDF:370038.0/20

Left: 61.223+/-0.007 $\chi^2$/NDF: 900198.1/43

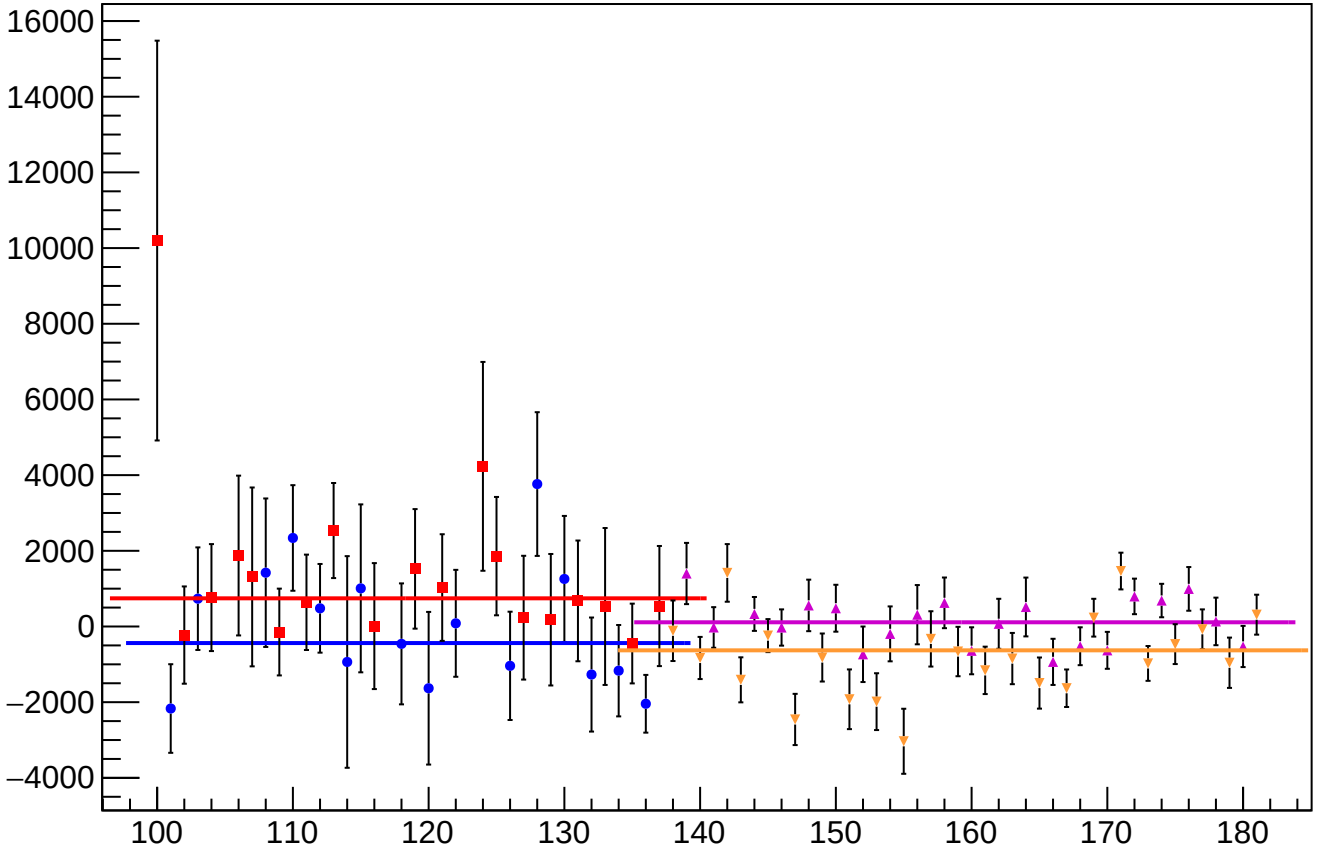
Right: 69.046+/-0.013 $\chi^2$/NDF: 993412.6/34

In: 63.063+/-0.009 $\chi^2$/NDF:955767.4/36

Out: 63.104+/-0.009 $\chi^2$/NDF:1207592.0/41

All: 63.084+/-0.006 $\chi^2$/NDF: 2163369.2/78

asym_sam_12345678_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -437.415+/-348.881 $\chi^2$/NDF: 20.6/15

Left Out: -629.889+/-123.783 $\chi^2$/NDF:65.0/22

Right Out: 744.388+/-353.488 $\chi^2$/NDF: 10.9/18

Left In: 111.353+/-126.276 $\chi^2$/NDF:22.0/20

Left: -266.658+/-88.396 $\chi^2$/NDF: 104.5/43

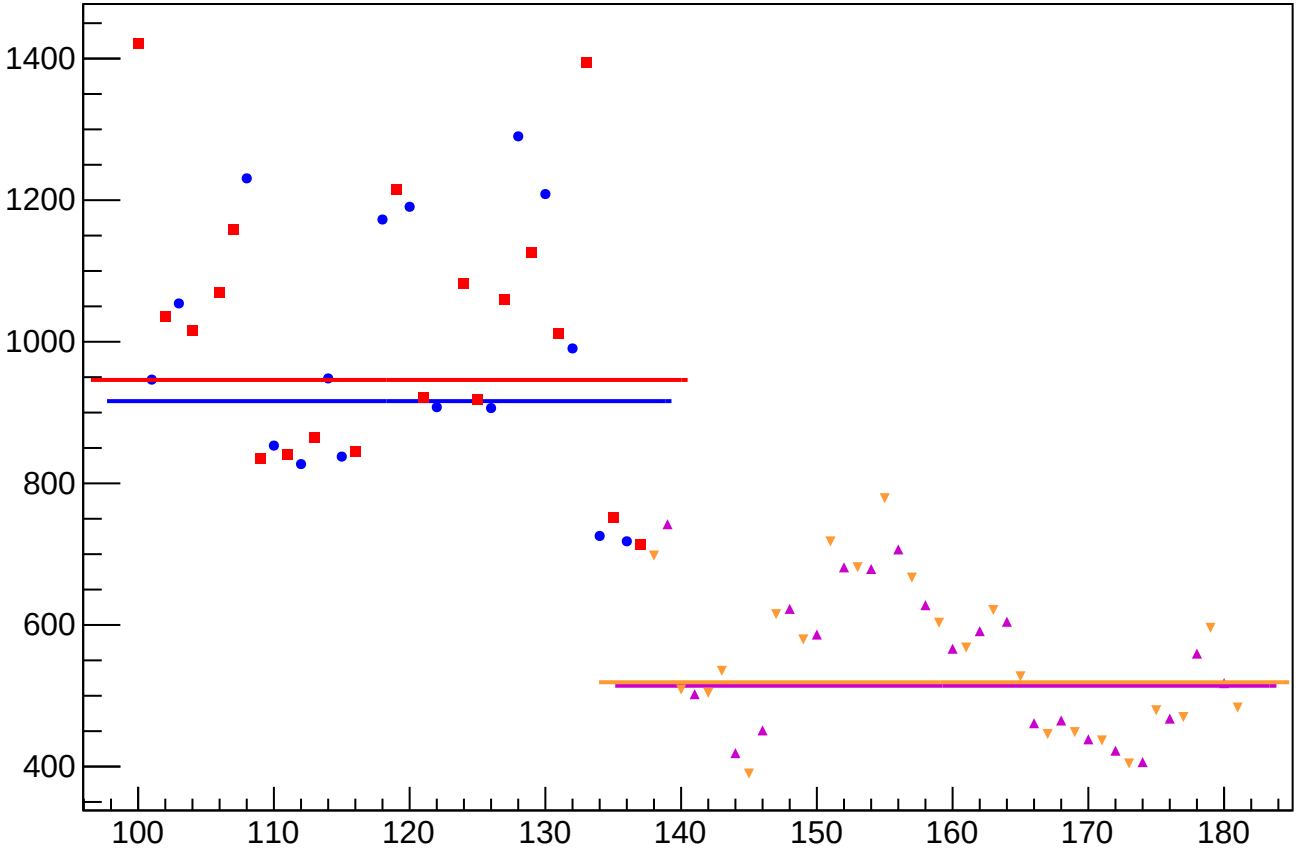
Right: 145.736+/-248.309 $\chi^2$/NDF: 37.1/34

In: 47.789+/-118.738 $\chi^2$/NDF:44.7/36

Out: -479.778+/-116.827 $\chi^2$/NDF:89.3/41

All: -220.274+/-83.277 $\chi^2$/NDF: 144.1/78

asym_sam_12345678_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 916.174+/-0.247 $\chi^2$/NDF: 509149.2/15

Left Out: 519.086+/-0.088 $\chi^2$/NDF:1242813.9/22

Right Out: 946.093+/-0.250 $\chi^2$/NDF: 405411.3/18

Left In: 514.148+/-0.089 $\chi^2$/NDF:1118865.8/20

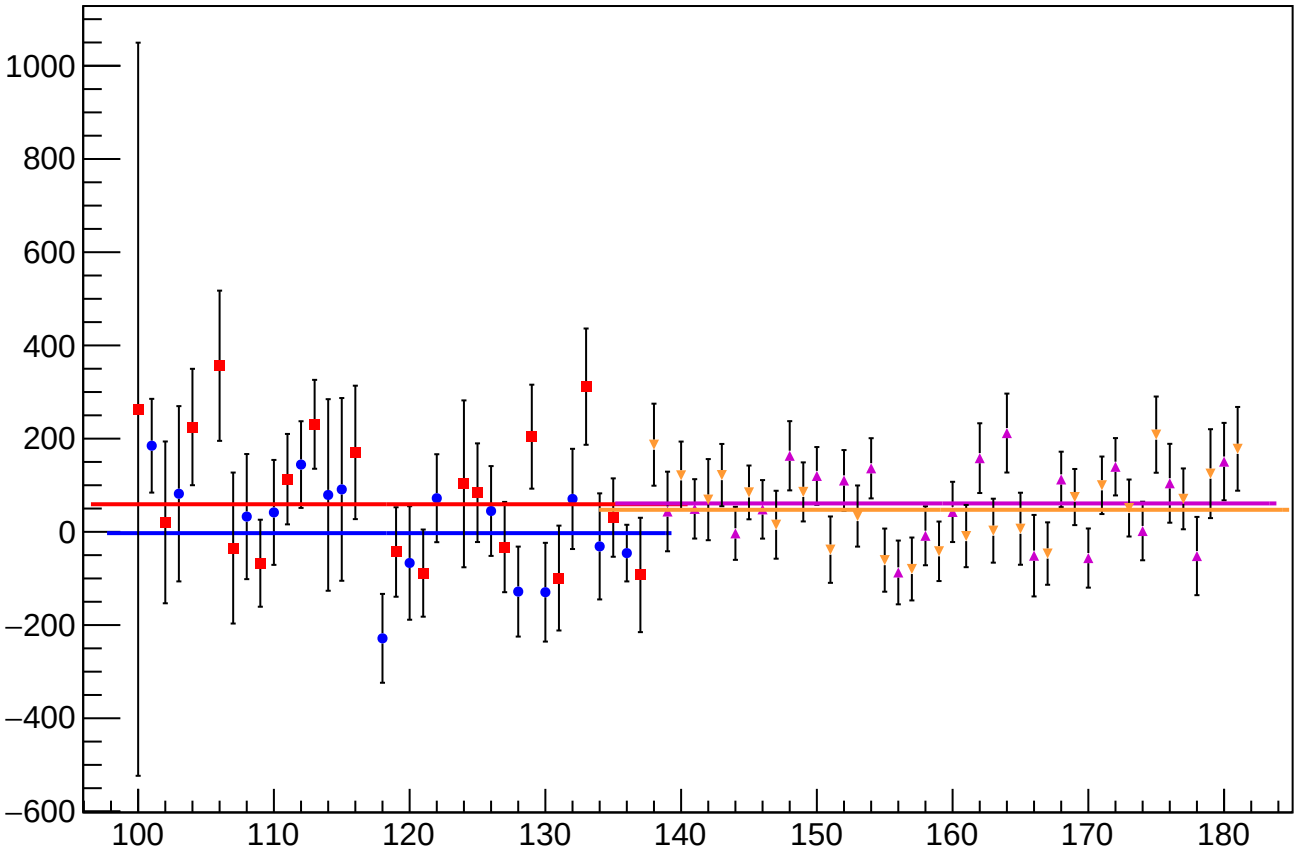
Left: 516.666+/-0.063 $\chi^2$/NDF: 2363239.7/43

Right: 930.937+/-0.176 $\chi^2$/NDF: 921817.9/34

In: 560.715+/-0.084 $\chi^2$/NDF:3976130.8/36

Out: 565.727+/-0.083 $\chi^2$/NDF:4247879.4/41

All: 563.262+/-0.059 $\chi^2$/NDF: 8225821.5/78




Right In: -2.773+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 47.301+/-14.469 $\chi^2$/NDF:26.5/22

Right Out: 59.226+/-26.384 $\chi^2$/NDF: 25.7/18

Left In: 60.983+/-14.926 $\chi^2$/NDF:28.5/20

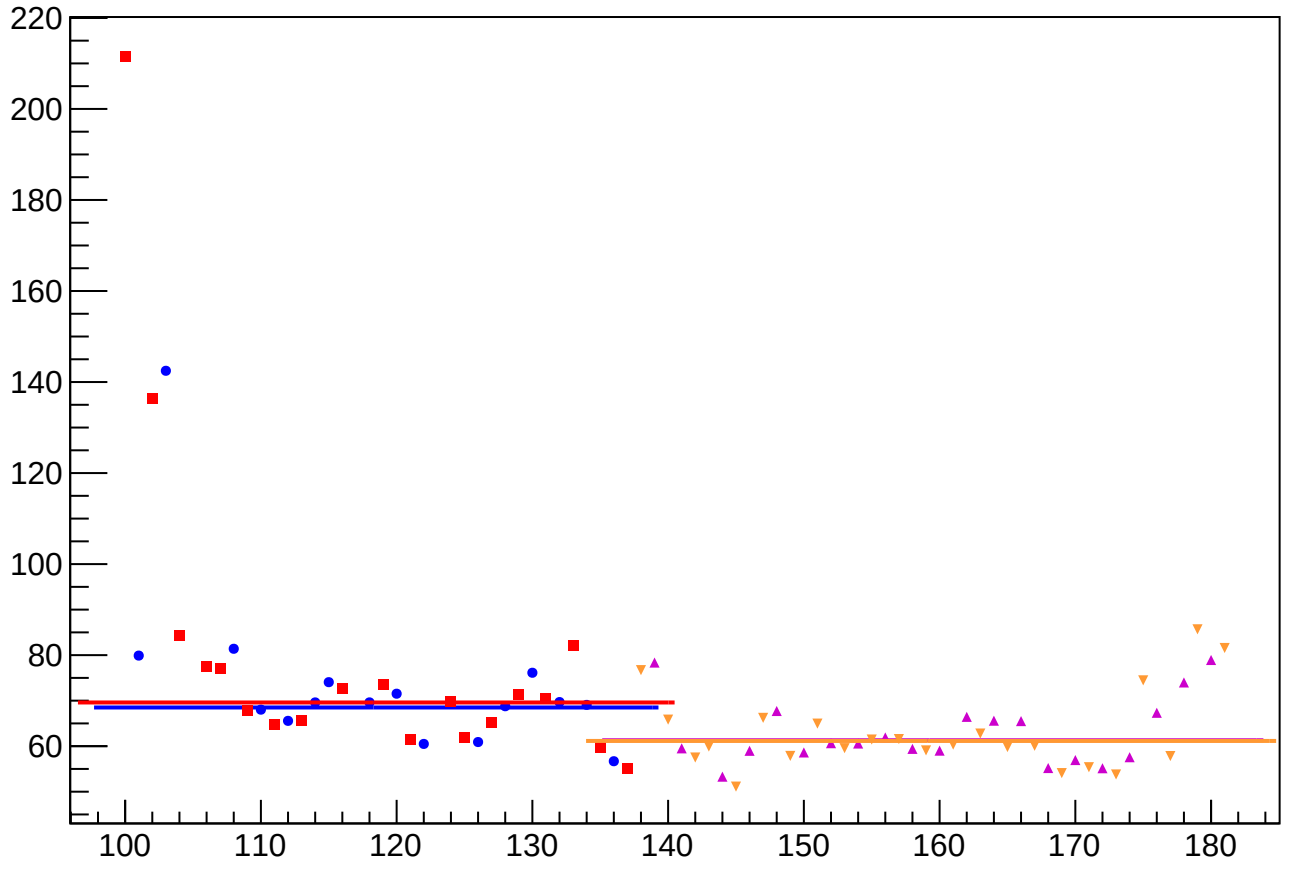
Left: 53.929+/-10.389 $\chi^2$/NDF: 55.4/43

Right: 28.026+/-18.595 $\chi^2$/NDF: 46.1/34

In: 45.373+/-12.970 $\chi^2$/NDF:50.7/36

Out: 50.059+/-12.686 $\chi^2$/NDF:52.3/41

All: 47.768+/-9.069 $\chi^2$/NDF: 103.0/78




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471868.0/15

Left Out: 61.150+/-0.010 $\chi^2$/NDF:530053.8/22

Right Out: 69.600+/-0.019 $\chi^2$/NDF: 519788.9/18

Left In: 61.301+/-0.011 $\chi^2$/NDF:370038.0/20

Left: 61.223+/-0.007 $\chi^2$/NDF: 900198.1/43

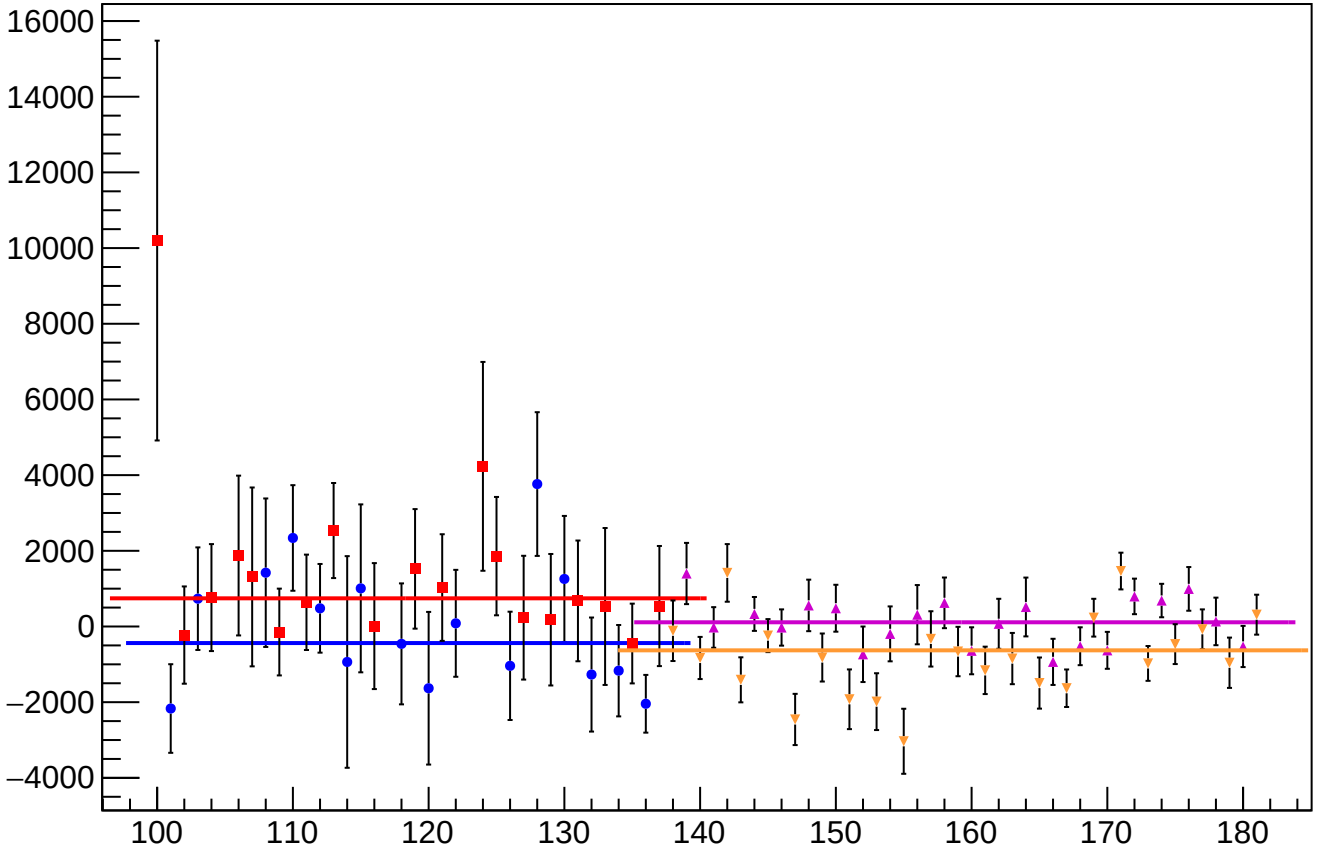
Right: 69.046+/-0.013 $\chi^2$/NDF: 993412.6/34

In: 63.063+/-0.009 $\chi^2$/NDF:955767.4/36

Out: 63.104+/-0.009 $\chi^2$/NDF:1207592.0/41

All: 63.084+/-0.006 $\chi^2$/NDF: 2163369.2/78

asym_sam_12345678_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -437.415+/-348.881 $\chi^2$/NDF: 20.6/15

Left Out: -629.889+/-123.783 $\chi^2$/NDF:65.0/22

Right Out: 744.388+/-353.488 $\chi^2$/NDF: 10.9/18

Left In: 111.353+/-126.276 $\chi^2$/NDF:22.0/20

Left: -266.658+/-88.396 $\chi^2$/NDF: 104.5/43

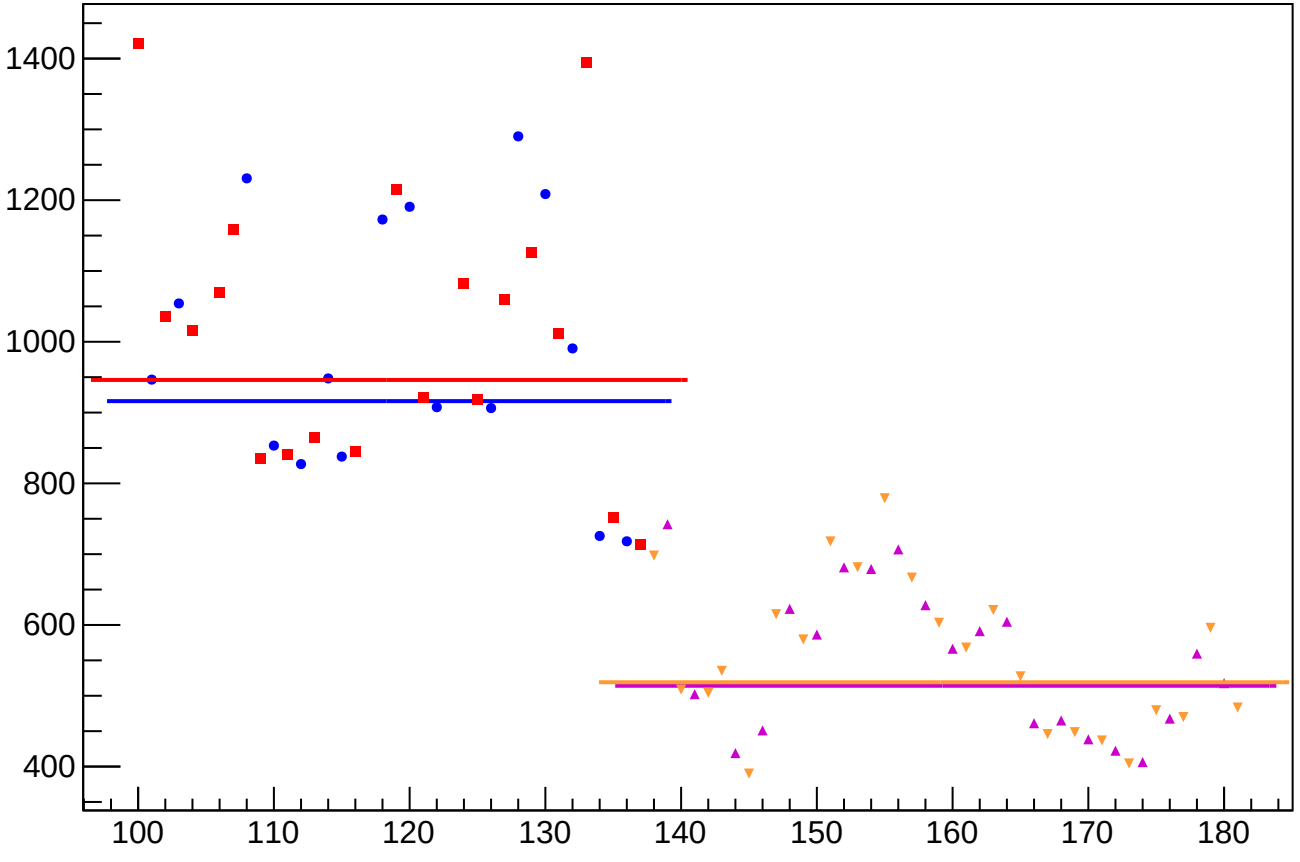
Right: 145.736+/-248.309 $\chi^2$/NDF: 37.1/34

In: 47.789+/-118.738 $\chi^2$/NDF:44.7/36

Out: -479.778+/-116.827 $\chi^2$/NDF:89.3/41

All: -220.274+/-83.277 $\chi^2$/NDF: 144.1/78

asym_sam_12345678_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 916.174+/-0.247 $\chi^2$/NDF: 509149.2/15

Left Out: 519.086+/-0.088 $\chi^2$/NDF:1242813.9/22

Right Out: 946.093+/-0.250 $\chi^2$/NDF: 405411.3/18

Left In: 514.148+/-0.089 $\chi^2$/NDF:1118865.8/20

Left: 516.666+/-0.063 $\chi^2$/NDF: 2363239.7/43

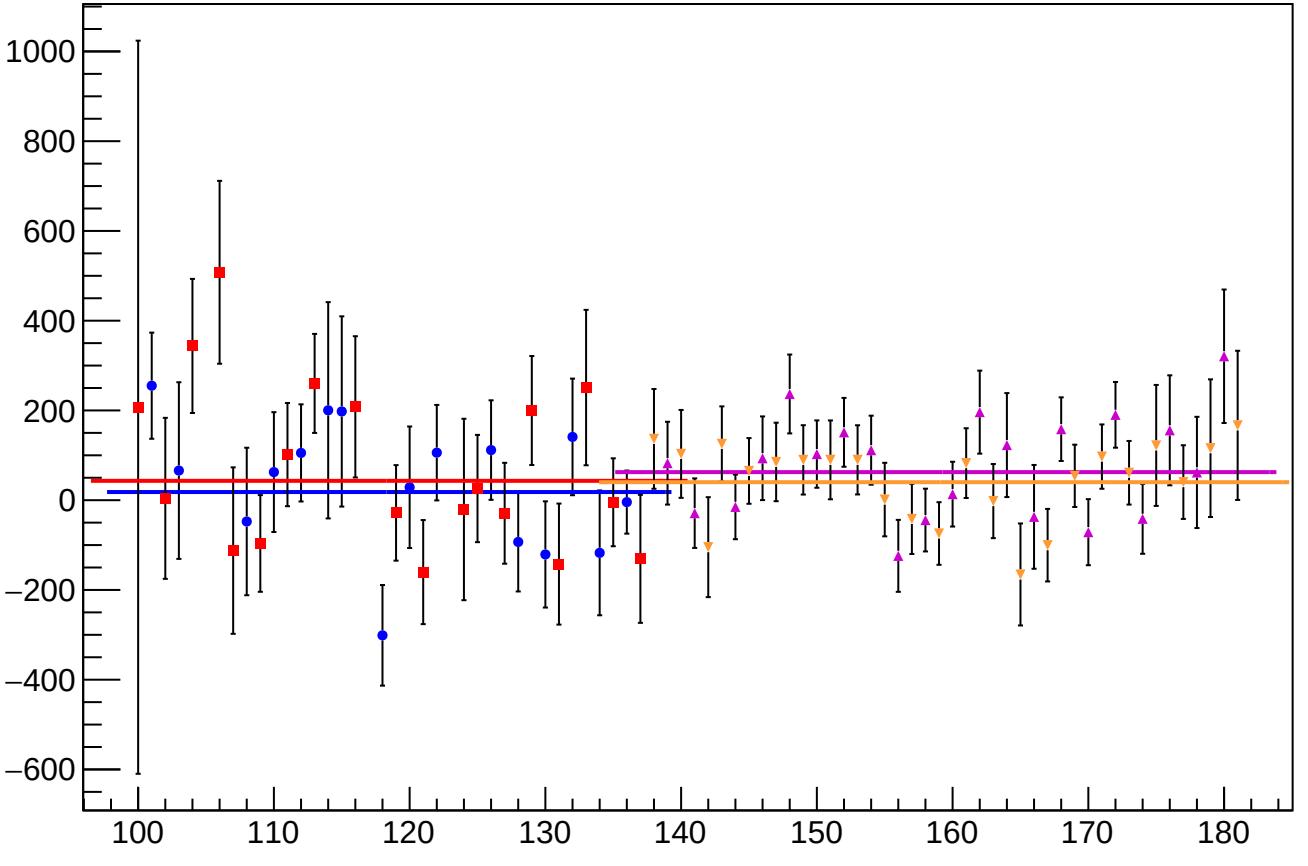
Right: 930.937+/-0.176 $\chi^2$/NDF: 921817.9/34

In: 560.715+/-0.084 $\chi^2$/NDF:3976130.8/36

Out: 565.727+/-0.083 $\chi^2$/NDF:4247879.4/41

All: 563.262+/-0.059 $\chi^2$/NDF: 8225821.5/78

dit_asym_sam_12345678_avg_mean vs Slug, Sign Corrected




Right In: 18.175+/-30.346 $\chi^2$/NDF: 20.1/15

Left Out: 40.116+/-17.857 $\chi^2$/NDF:18.2/22

Right Out: 43.146+/-30.707 $\chi^2$/NDF: 27.7/18

Left In: 62.548+/-18.356 $\chi^2$/NDF:33.5/20

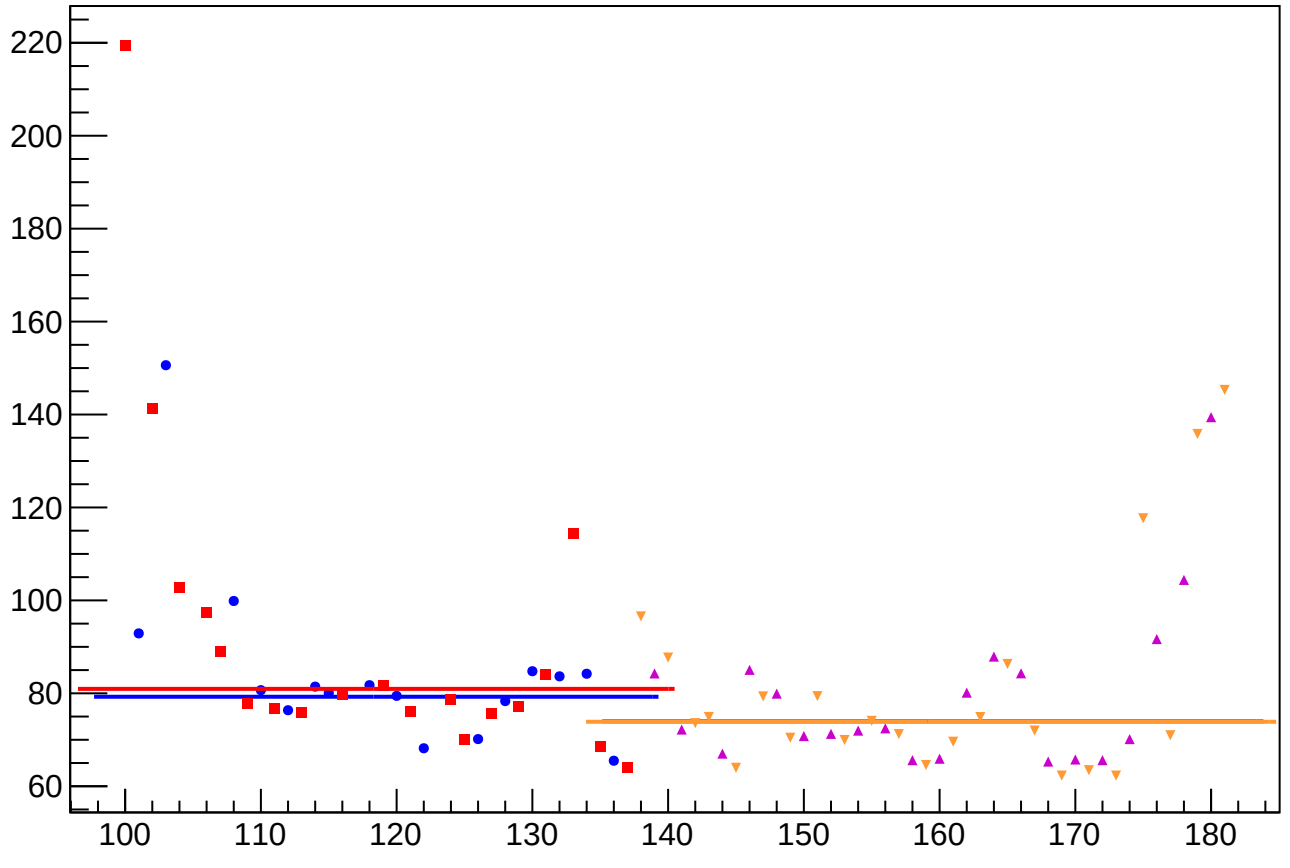
Left: 51.023+/-12.800 $\chi^2$/NDF: 52.5/43

Right: 30.513+/-21.585 $\chi^2$/NDF: 48.2/34

In: 50.661+/-15.706 $\chi^2$/NDF:55.2/36

Out: 40.882+/-15.436 $\chi^2$/NDF:46.0/41

All: 45.687+/-11.009 $\chi^2$/NDF: 101.4/78




Right In: 79.263+/-0.021 $\chi^2$/NDF: 444951.1/15

Left Out: 73.877+/-0.013 $\chi^2$/NDF:1314540.3/22

Right Out: 80.958+/-0.022 $\chi^2$/NDF: 514182.4/18

Left In: 73.974+/-0.013 $\chi^2$/NDF:832917.1/20

Left: 73.925+/-0.009 $\chi^2$/NDF: 2147486.2/43

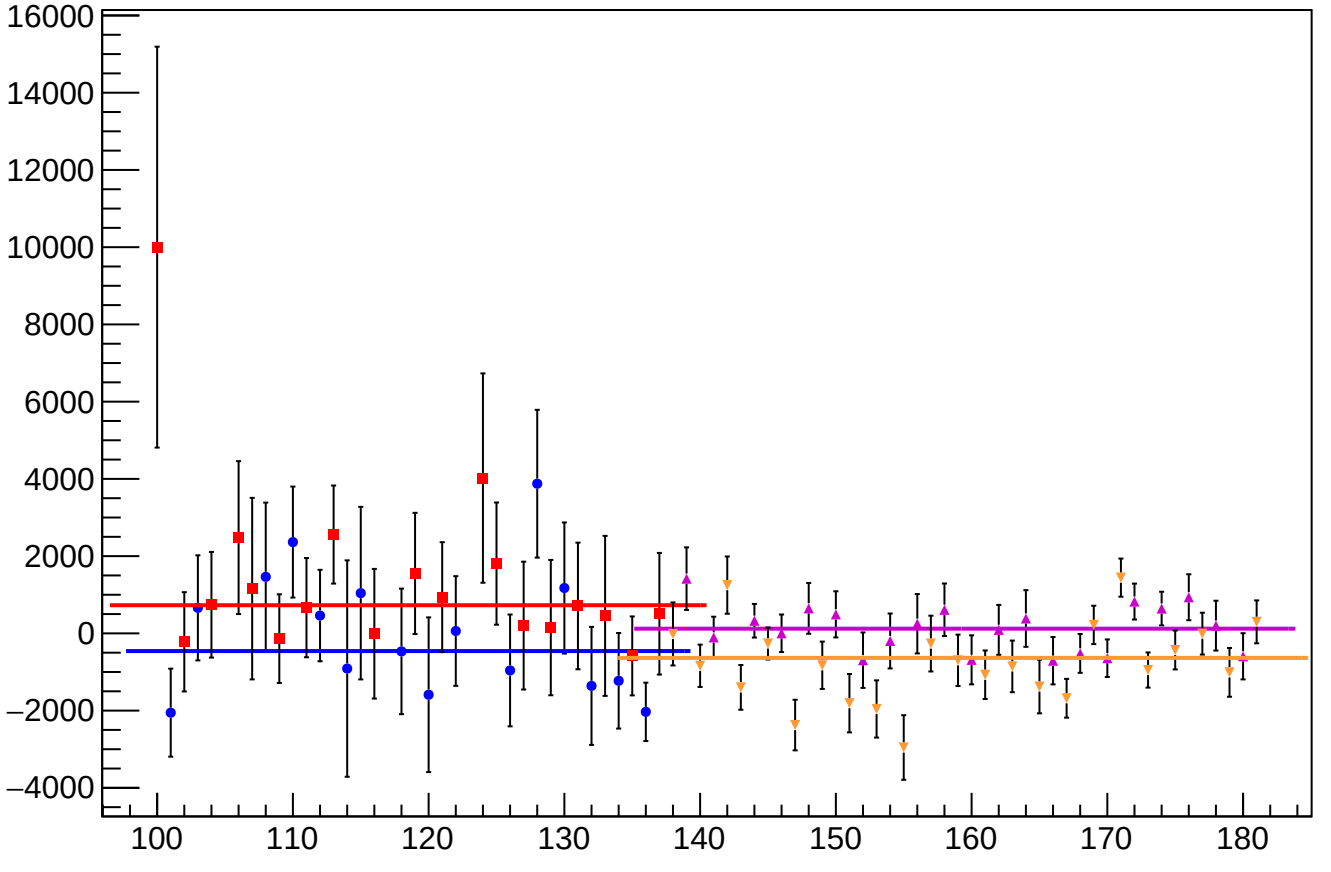
Right: 80.101+/-0.015 $\chi^2$/NDF: 962217.4/34

In: 75.391+/-0.011 $\chi^2$/NDF:1322340.3/36

Out: 75.667+/-0.011 $\chi^2$/NDF:1908199.1/41

All: 75.531+/-0.008 $\chi^2$/NDF: 3230852.6/78

asym_sam_12345678_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -458.108+/-350.075 $\chi^2$/NDF: 20.3/15

Left Out: -634.891+/-122.643 $\chi^2$/NDF:62.3/22

Right Out: 728.750+/-352.574 $\chi^2$/NDF: 11.5/18

Left In: 121.650+/-126.103 $\chi^2$/NDF:20.8/20

Left: -267.140+/-87.919 $\chi^2$/NDF: 101.6/43

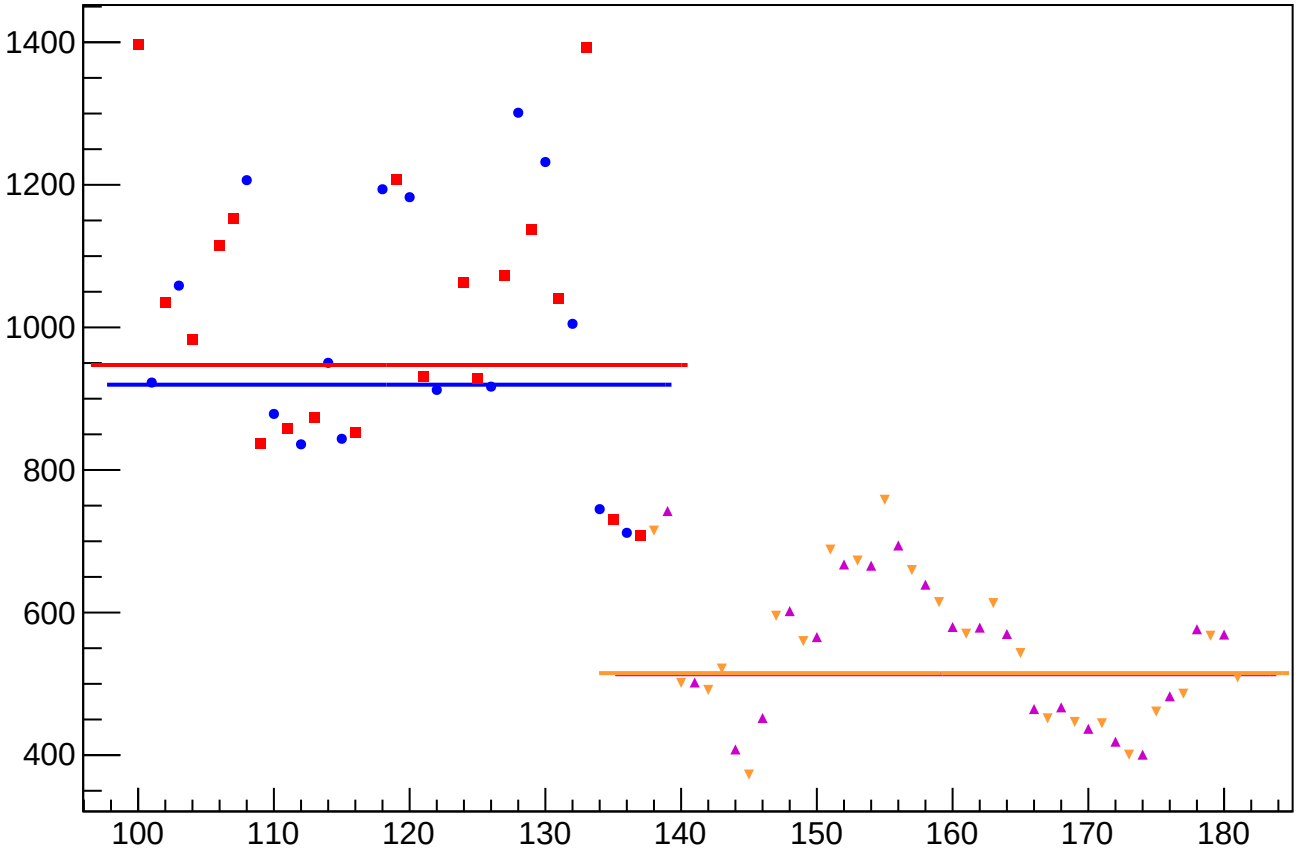
Right: 131.100+/-248.419 $\chi^2$/NDF: 37.5/34

In: 55.063+/-118.640 $\chi^2$/NDF:43.5/36

Out: -487.700+/-115.835 $\chi^2$/NDF:87.2/41

All: -222.810+/-82.882 $\chi^2$/NDF: 141.4/78

asym_sam_12345678_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 919.638+/-0.248 $\chi^2$/NDF: 515443.8/15

Left Out: 515.058+/-0.087 $\chi^2$/NDF:1230811.6/22

Right Out: 947.272+/-0.249 $\chi^2$/NDF: 425563.8/18

Left In: 513.460+/-0.089 $\chi^2$/NDF:1115780.4/20

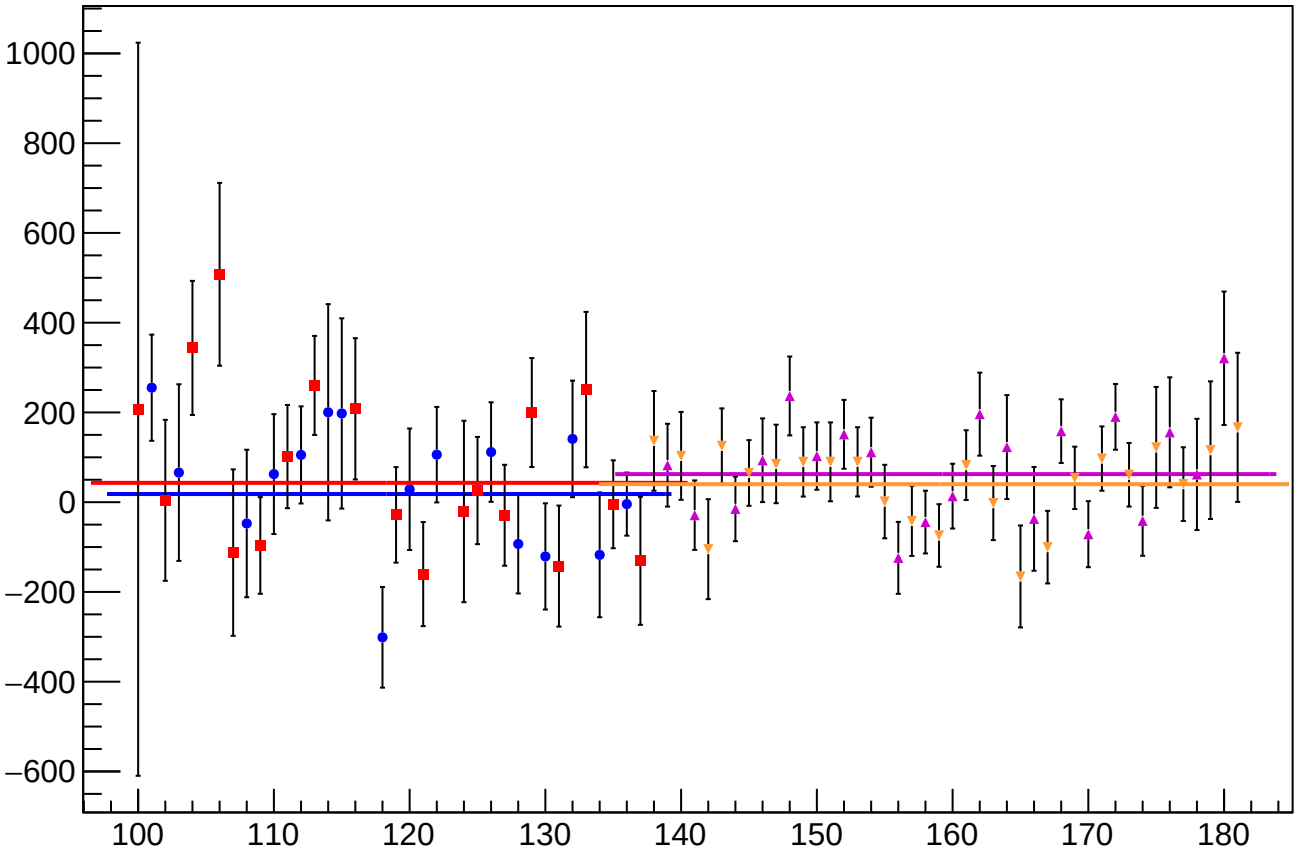
Left: 514.281+/-0.062 $\chi^2$/NDF: 2346757.1/43

Right: 933.357+/-0.176 $\chi^2$/NDF: 947194.3/34

In: 560.110+/-0.084 $\chi^2$/NDF:4014408.4/36

Out: 561.711+/-0.082 $\chi^2$/NDF:4337528.1/41

All: 560.930+/-0.059 $\chi^2$/NDF: 8352122.9/78




Right In: 18.175+/-30.346 $\chi^2$/NDF: 20.1/15

Left Out: 40.116+/-17.857 $\chi^2$/NDF:18.2/22

Right Out: 43.144+/-30.707 $\chi^2$/NDF: 27.7/18

Left In: 62.547+/-18.356 $\chi^2$/NDF:33.5/20

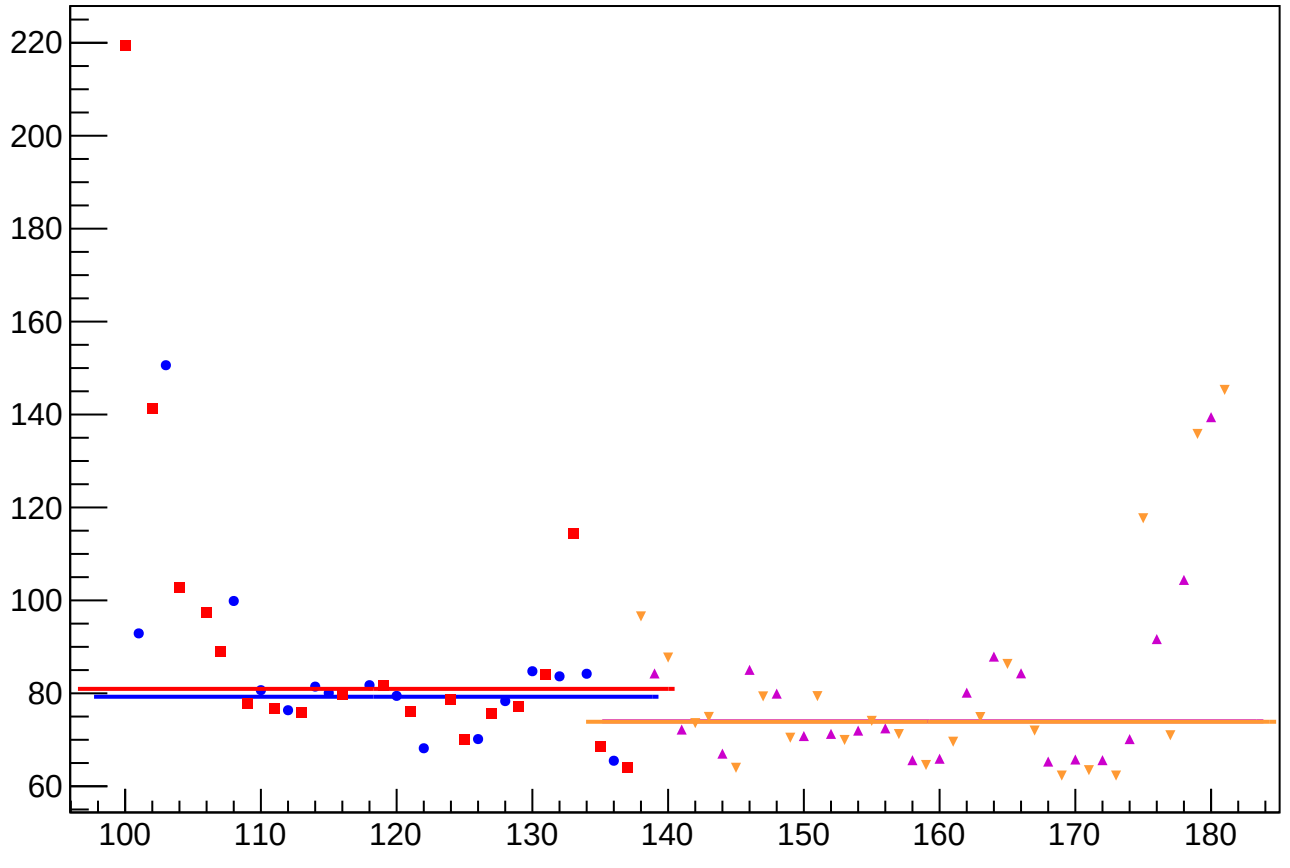
Left: 51.022+/-12.800 $\chi^2$/NDF: 52.5/43

Right: 30.512+/-21.584 $\chi^2$/NDF: 48.2/34

In: 50.661+/-15.706 $\chi^2$/NDF:55.2/36

Out: 40.881+/-15.436 $\chi^2$/NDF:46.0/41

All: 45.686+/-11.009 $\chi^2$/NDF: 101.4/78




Right In: 79.263+/-0.021 $\chi^2$/NDF: 444948.4/15

Left Out: 73.878+/-0.013 $\chi^2$/NDF:1314540.4/22

Right Out: 80.958+/-0.022 $\chi^2$/NDF: 514191.2/18

Left In: 73.975+/-0.013 $\chi^2$/NDF:832903.7/20

Left: 73.925+/-0.009 $\chi^2$/NDF: 2147472.9/43

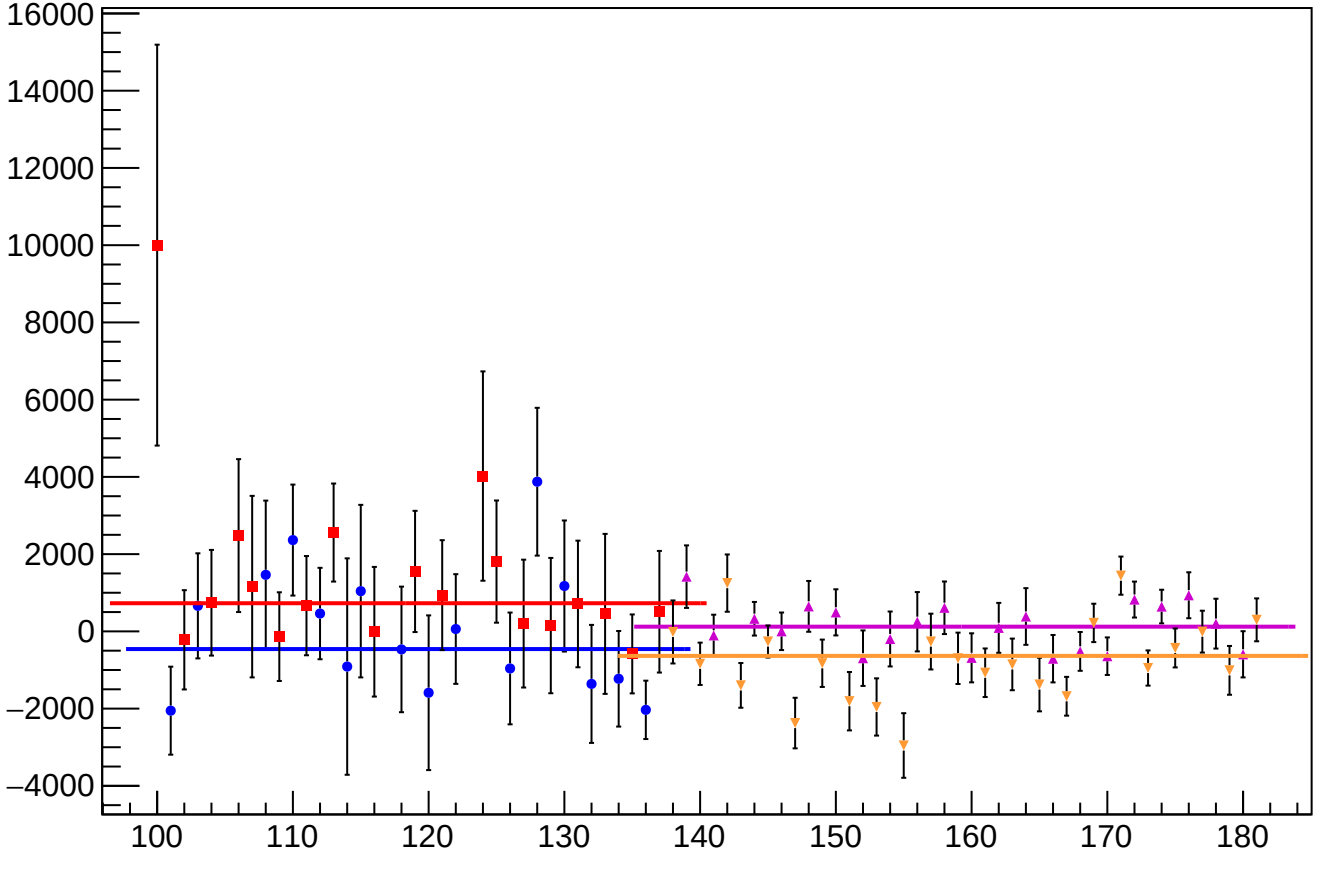
Right: 80.100+/-0.015 $\chi^2$/NDF: 962223.7/34

In: 75.391+/-0.011 $\chi^2$/NDF:1322316.2/36

Out: 75.667+/-0.011 $\chi^2$/NDF:1908198.9/41

All: 75.531+/-0.008 $\chi^2$/NDF: 3230828.2/78

asym_sam_12345678_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -458.104+/-350.074 $\chi^2$/NDF: 20.3/15

Left Out: -634.890+/-122.643 $\chi^2$/NDF:62.3/22

Right Out: 728.749+/-352.573 $\chi^2$/NDF: 11.5/18

Left In: 121.649+/-126.102 $\chi^2$/NDF:20.8/20

Left: -267.140+/-87.919 $\chi^2$/NDF: 101.6/43

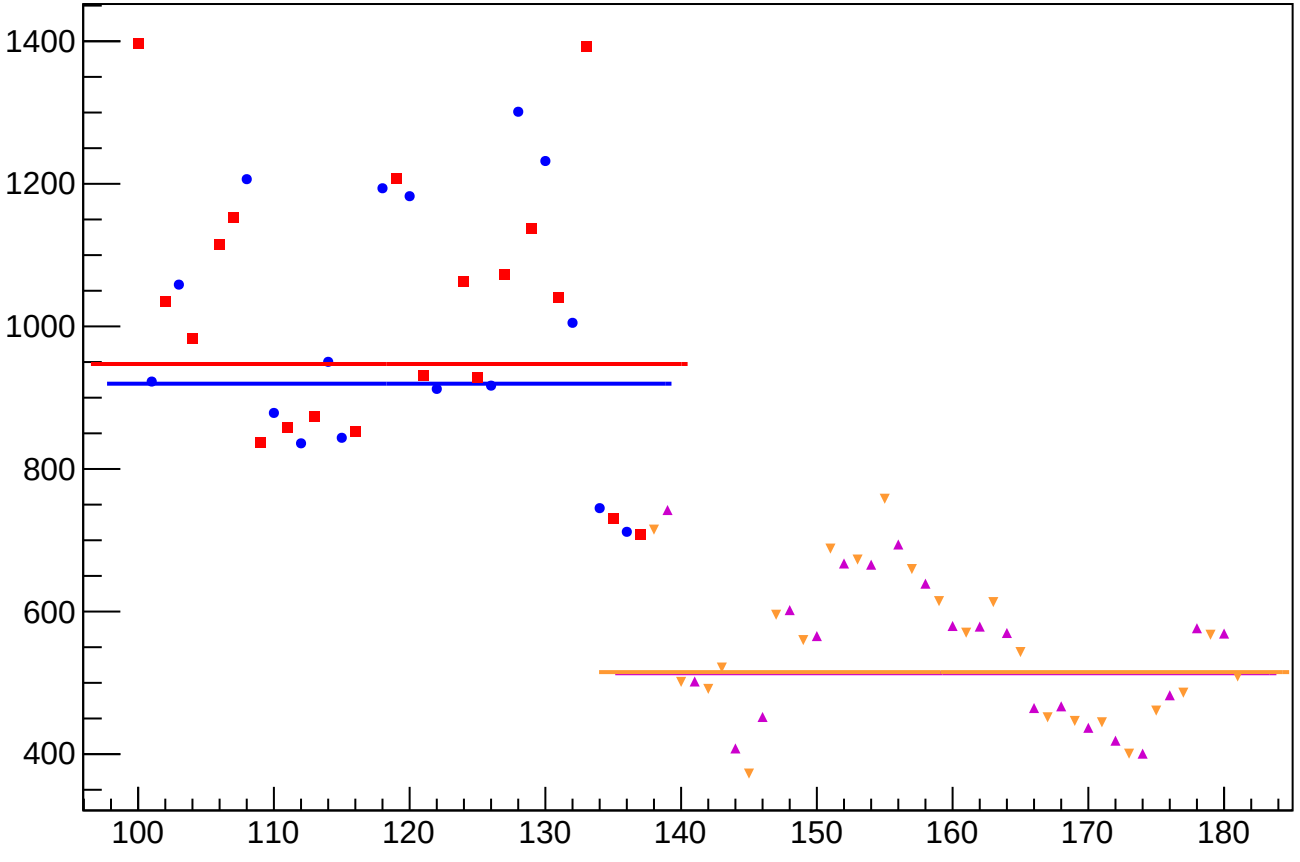
Right: 131.102+/-248.419 $\chi^2$/NDF: 37.5/34

In: 55.062+/-118.640 $\chi^2$/NDF:43.5/36

Out: -487.699+/-115.835 $\chi^2$/NDF:87.2/41

All: -222.810+/-82.882 $\chi^2$/NDF: 141.4/78

asym_sam_12345678_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 919.636+/-0.248 $\chi^2$/NDF: 515443.9/15

Left Out: 515.057+/-0.087 $\chi^2$/NDF:1230813.9/22

Right Out: 947.270+/-0.249 $\chi^2$/NDF: 425565.2/18

Left In: 513.459+/-0.089 $\chi^2$/NDF:1115778.6/20

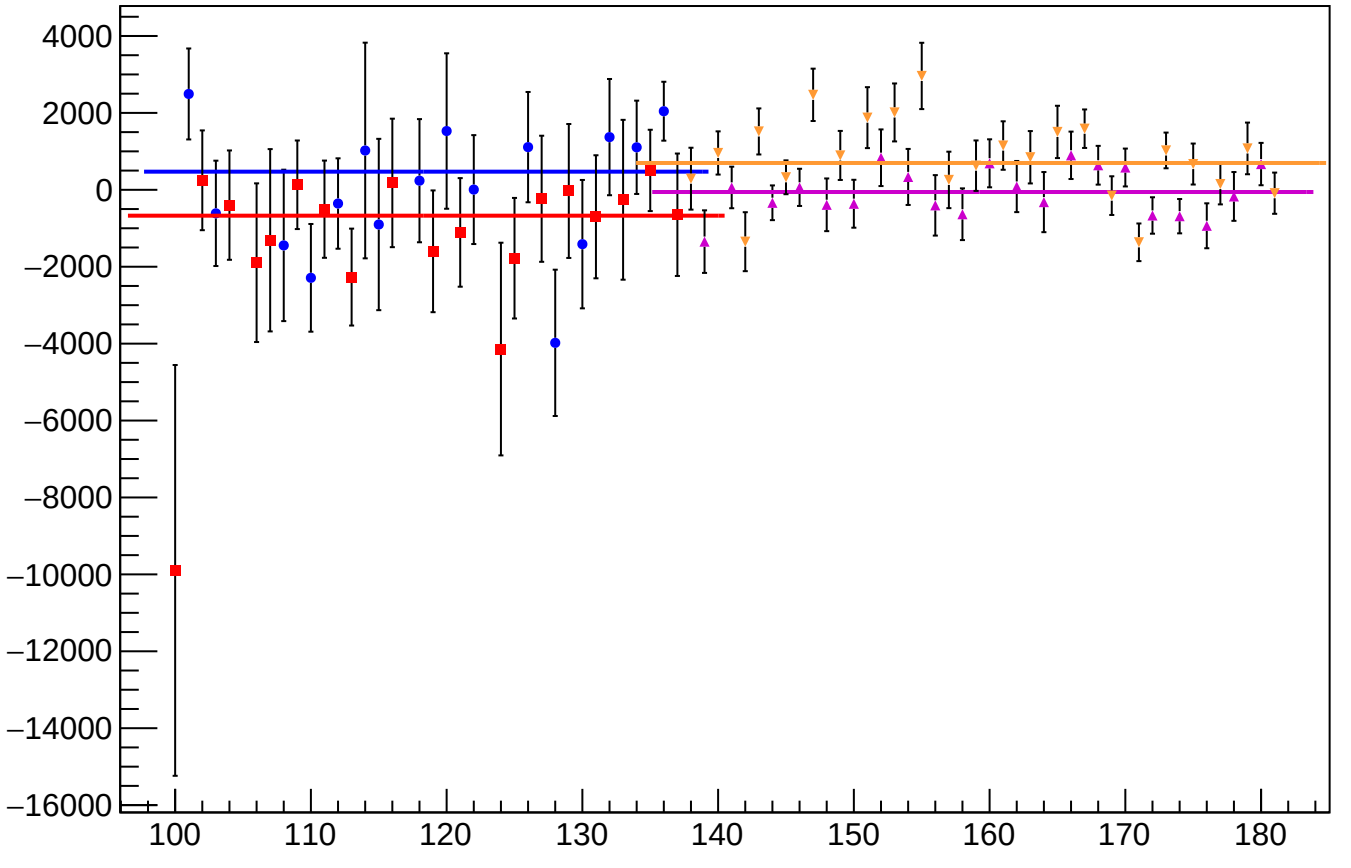
Left: 514.280+/-0.062 $\chi^2$/NDF: 2346757.7/43

Right: 933.355+/-0.176 $\chi^2$/NDF: 947195.7/34

In: 560.109+/-0.084 $\chi^2$/NDF:4014404.1/36

Out: 561.710+/-0.082 $\chi^2$/NDF:4337528.3/41

All: 560.929+/-0.059 $\chi^2$/NDF: 8352118.9/78




Right In: 472.014+/-350.376 $\chi^2$/NDF: 21.5/15

Left Out: 697.914+/-124.760 $\chi^2$/NDF:59.4/22

Right Out: -672.537+/-354.512 $\chi^2$/NDF: 10.3/18

Left In: -57.054+/-127.279 $\chi^2$/NDF:21.4/20

Left: 327.973+/-89.096 $\chi^2$/NDF: 98.7/43

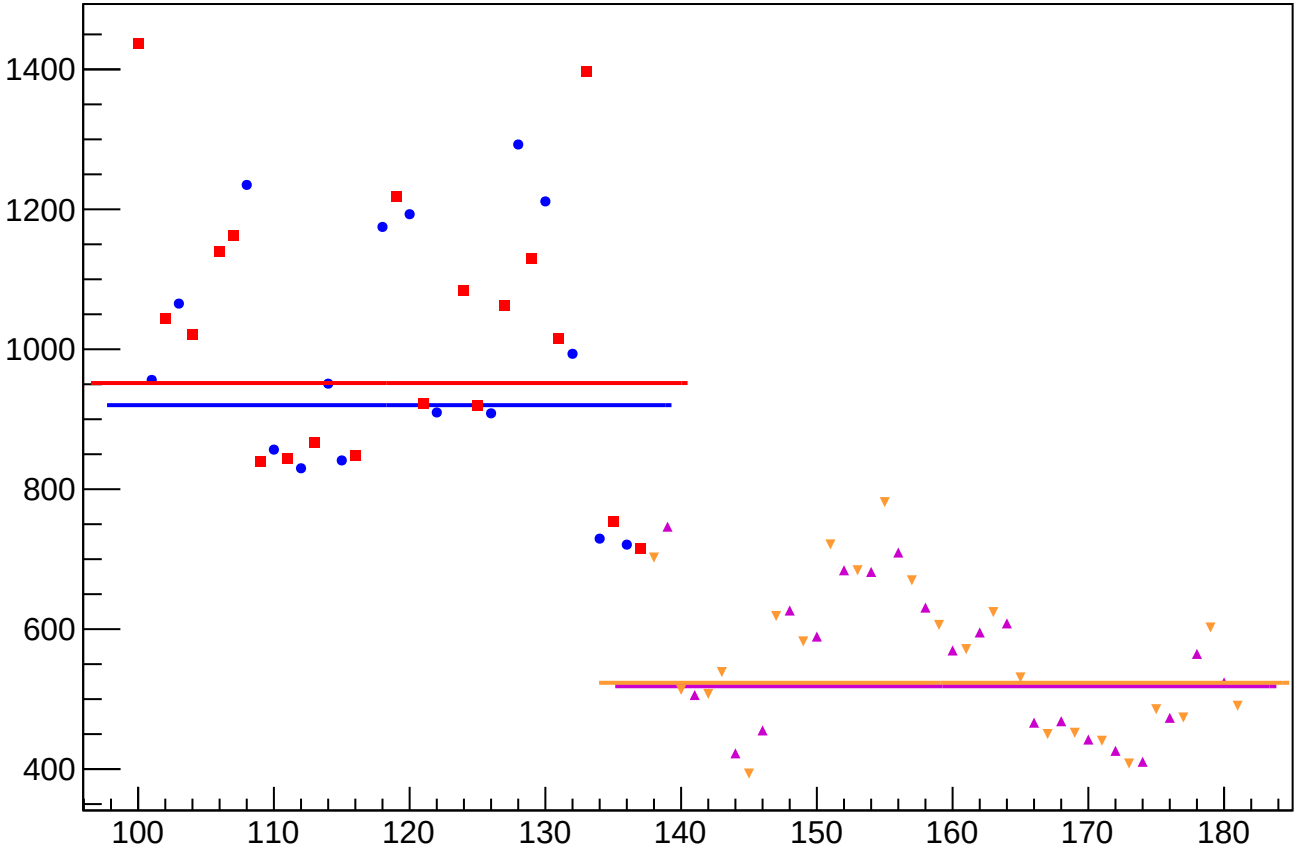
Right: -93.545+/-249.203 $\chi^2$/NDF: 37.1/34

In: 4.623+/-119.630 $\chi^2$/NDF:44.9/36

Out: 546.890+/-117.685 $\chi^2$/NDF:83.0/41

All: 280.200+/-83.895 $\chi^2$/NDF: 138.3/78

# asym_sam_12345678_avg_rms vs Slug, Sign Corrected




Right In: 920.125+/-0.248 $\chi^2$/NDF: 508678.6/15

Left Out: 523.352+/-0.088 $\chi^2$/NDF:1221139.1/22

Right Out: 951.726+/-0.251 $\chi^2$/NDF: 416116.3/18

Left In: 518.393+/-0.090 $\chi^2$/NDF:1098330.9/20

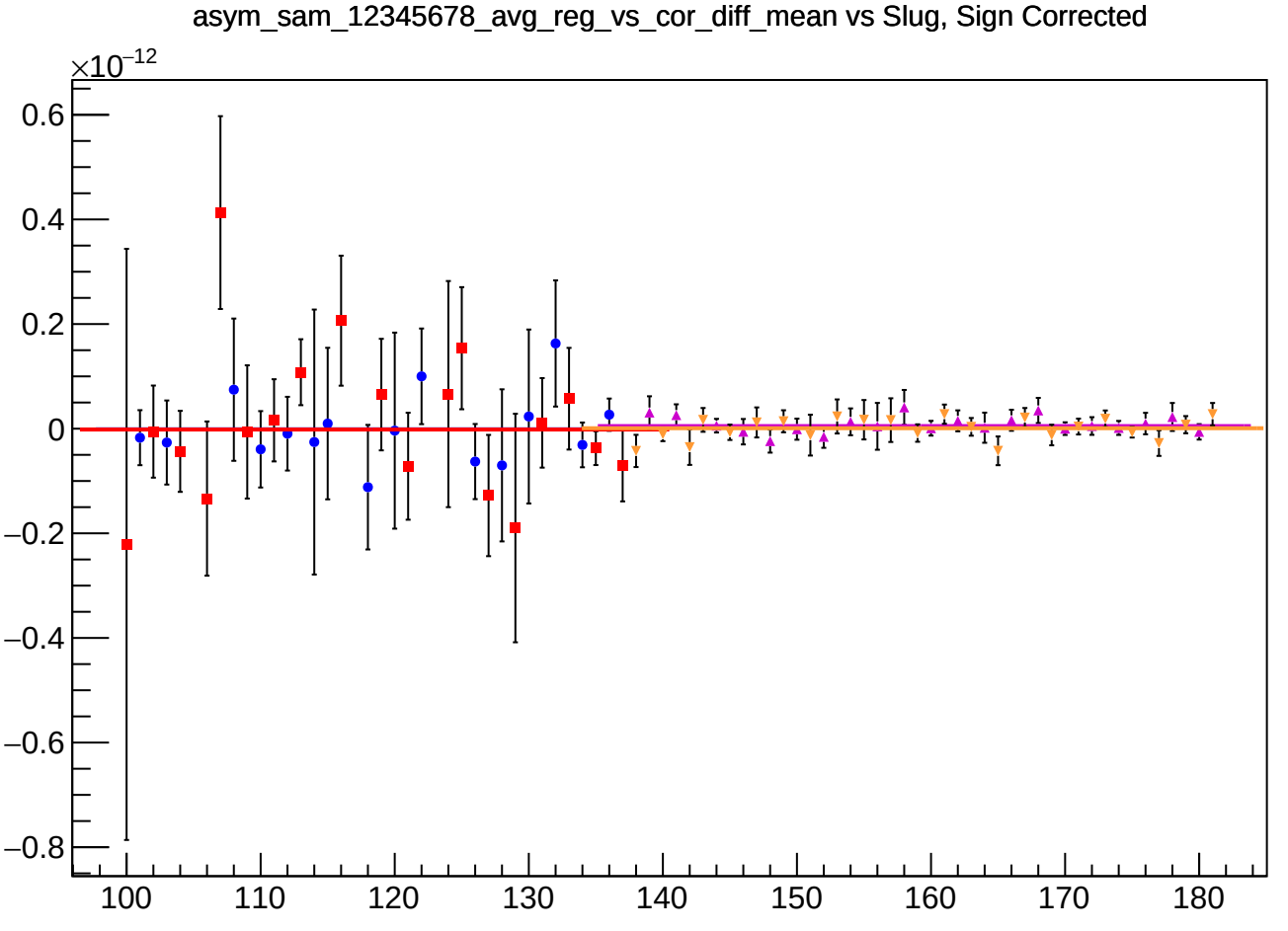
Left: 520.922+/-0.063 $\chi^2$/NDF: 2321018.6/43

Right: 935.740+/-0.176 $\chi^2$/NDF: 932834.0/34

In: 565.225+/-0.085 $\chi^2$/NDF:3929775.6/36

Out: 570.559+/-0.083 $\chi^2$/NDF:4235658.3/41

All: 567.936+/-0.059 $\chi^2$/NDF: 8167454.3/78




Right In: -0.000+/-0.000 $\chi^2$/NDF: 7.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17.7/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:9.4/20

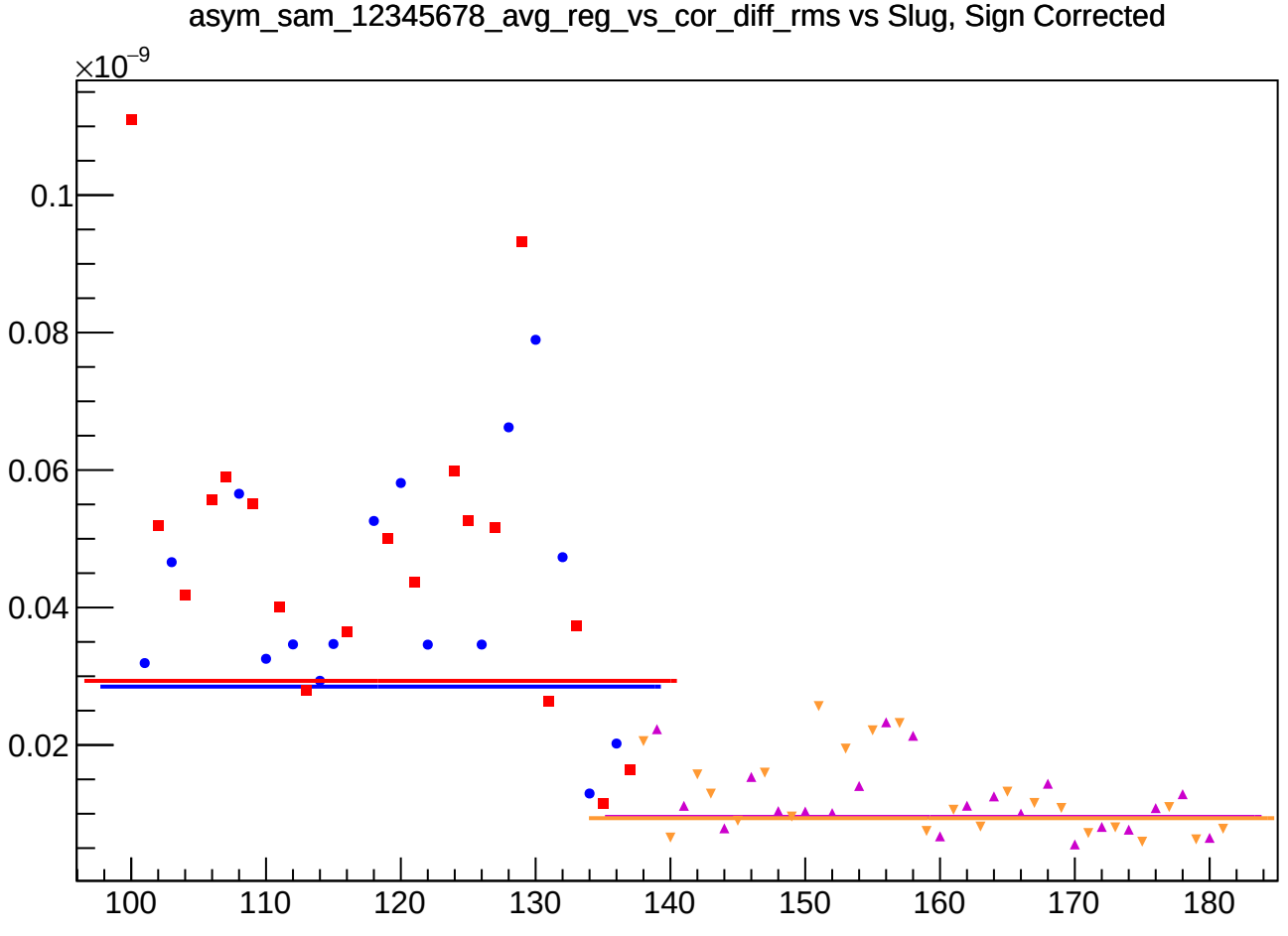
Left: 0.000+/-0.000 $\chi^2$/NDF: 27.6/43

Right: -0.000+/-0.000 $\chi^2$/NDF: 26.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.5/36

Out: 0.000+/-0.000 $\chi^2$/NDF:37.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 54.2/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1152293.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2072701.6/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1645968.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1597357.7/20

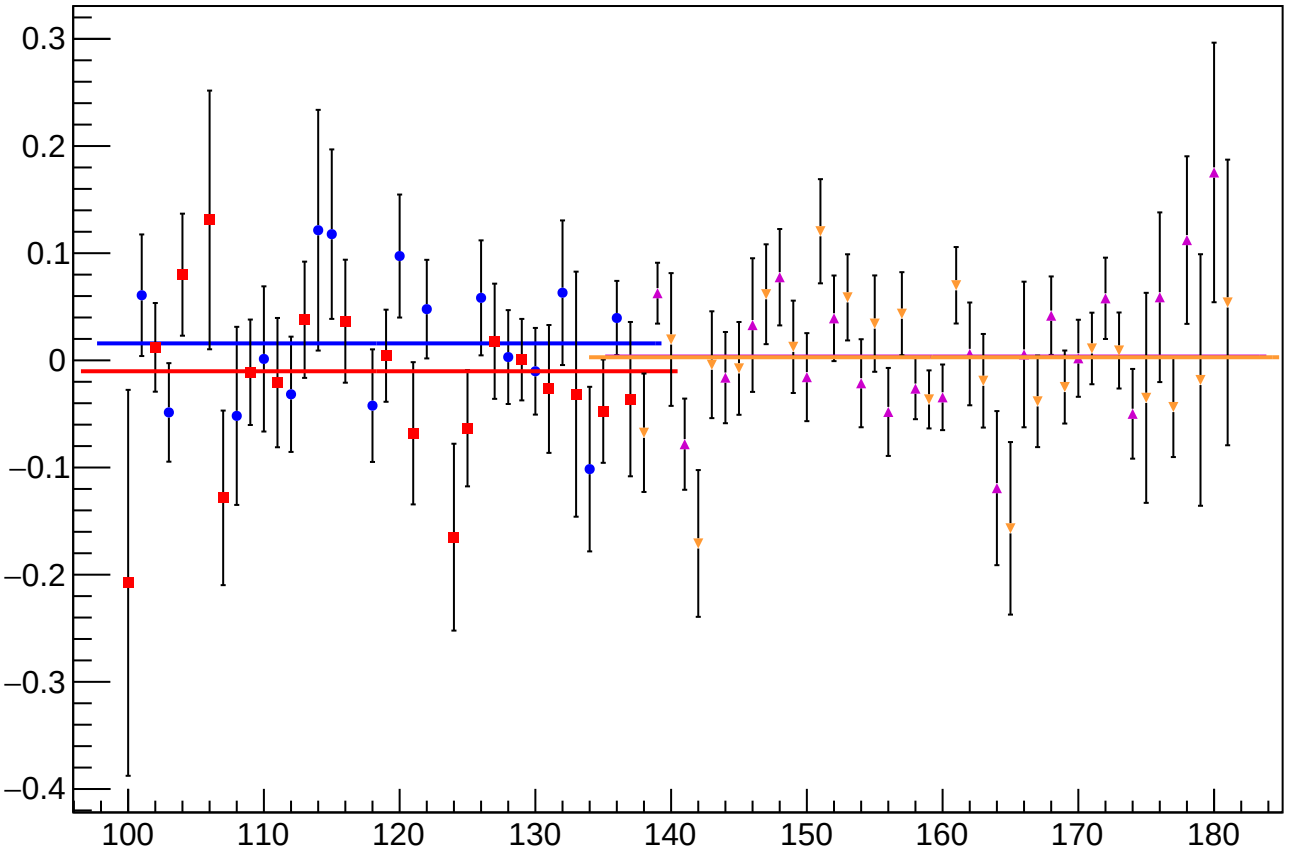
Left: 0.000+/-0.000 $\chi^2$/NDF: 3672313.3/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 2800314.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:4919222.6/36

Out: 0.000+/-0.000 $\chi^2$/NDF:5783049.2/41

All: 0.000+/-0.000 $\chi^2$/NDF: 10710707.5/78




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: 0.003+/-0.009 $\chi^2$/NDF:32.1/22

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.004+/-0.009 $\chi^2$/NDF:28.9/20

Left: 0.003+/-0.007 $\chi^2$/NDF: 61.0/43

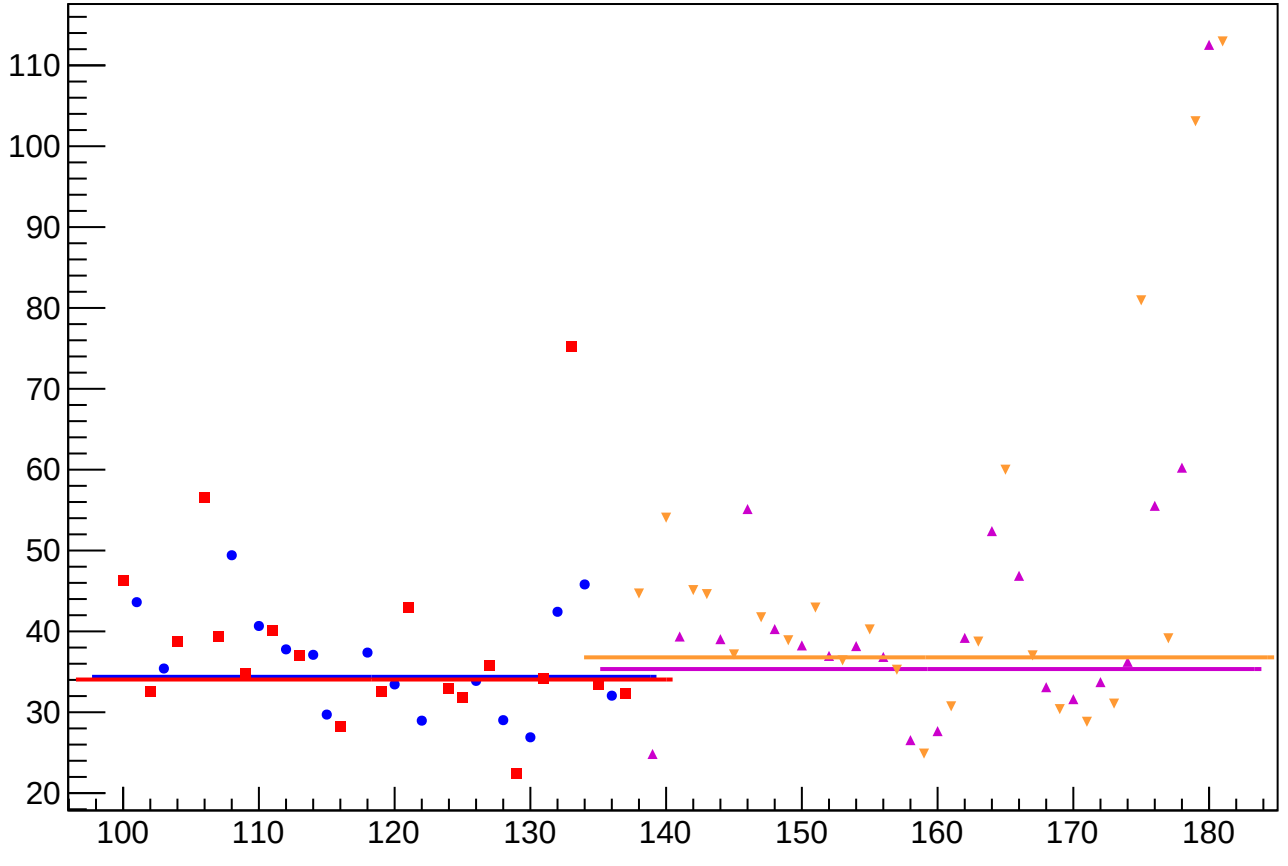
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.008+/-0.008 $\chi^2$/NDF:44.2/36

Out: -0.001+/-0.008 $\chi^2$/NDF:47.9/41

All: 0.003+/-0.005 $\chi^2$/NDF: 92.8/78

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.382+/-0.009 $\chi^2$/NDF: 367883.0/15

Left Out: 36.790+/-0.007 $\chi^2$/NDF:2902997.4/22

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642697.3/18

Left In: 35.343+/-0.007 $\chi^2$/NDF:2235433.7/20

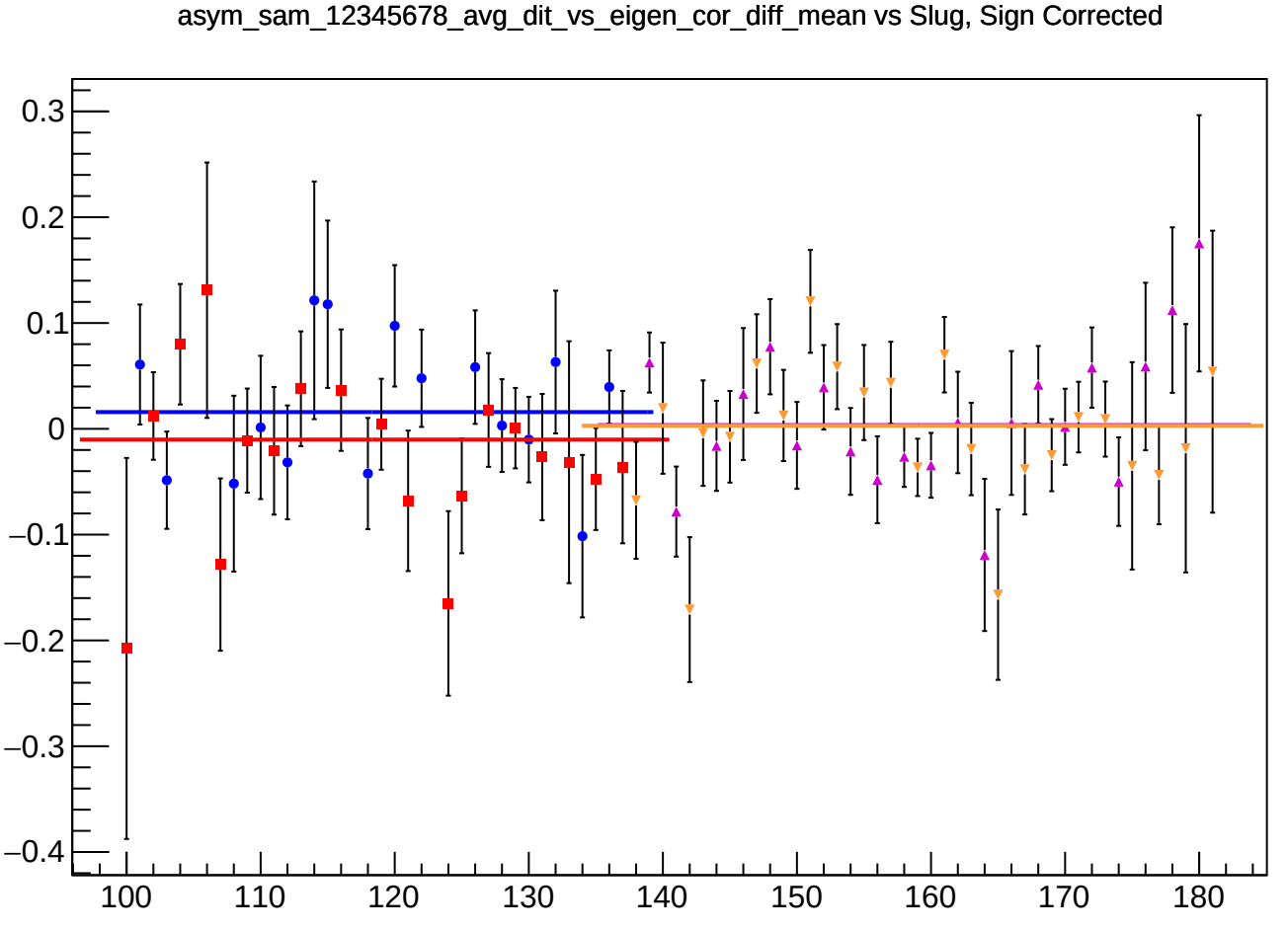
Left: 36.058+/-0.005 $\chi^2$/NDF: 5162906.5/43

Right: 34.212+/-0.007 $\chi^2$/NDF: 1011212.4/34

In: 35.035+/-0.005 $\chi^2$/NDF:2610310.6/36

Out: 35.881+/-0.005 $\chi^2$/NDF:3603343.0/41

All: 35.456+/-0.004 $\chi^2$/NDF: 6226059.6/78




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: 0.003+/-0.009 $\chi^2$/NDF:32.1/22

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.004+/-0.009 $\chi^2$/NDF:28.9/20

Left: 0.003+/-0.007 $\chi^2$/NDF: 61.0/43

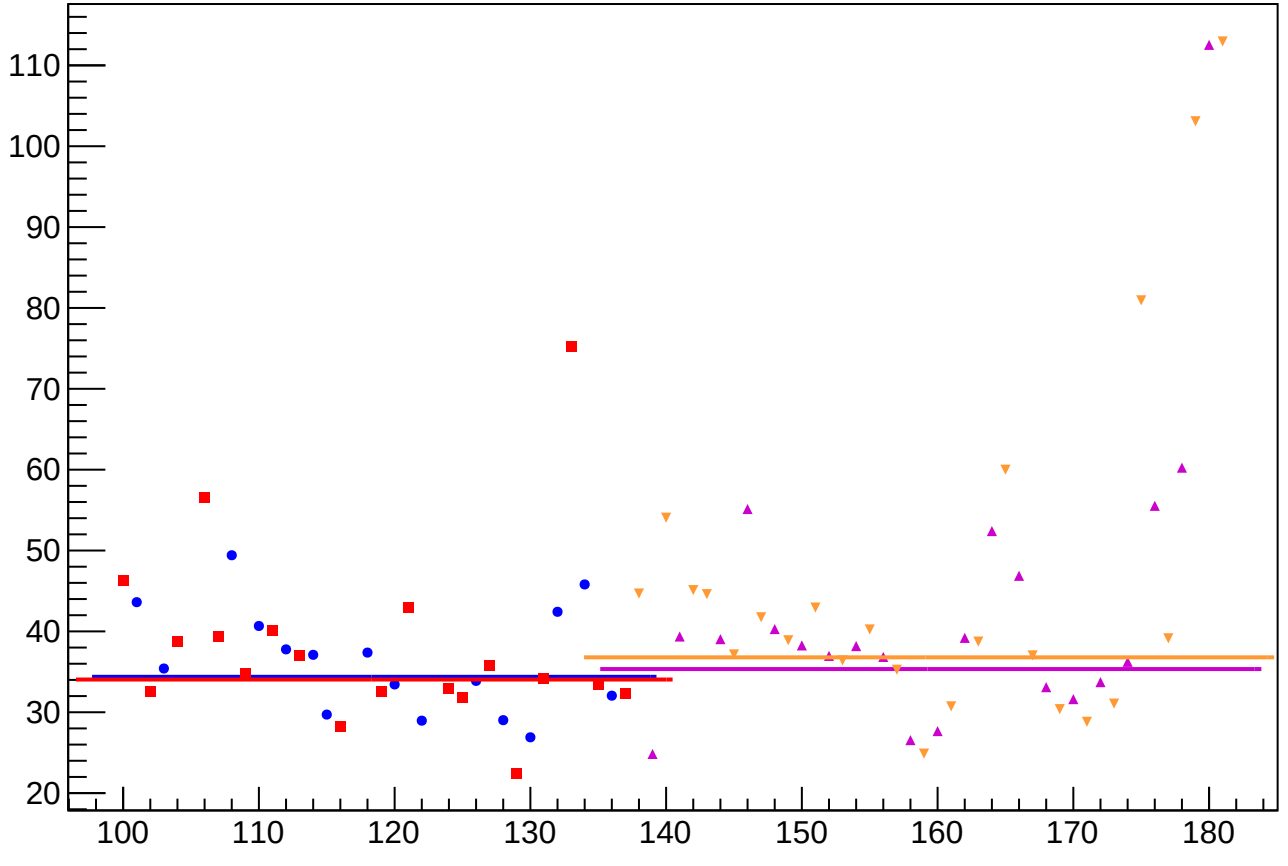
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.008+/-0.008 $\chi^2$/NDF:44.2/36

Out: -0.001+/-0.008 $\chi^2$/NDF:47.9/41

All: 0.003+/-0.005 $\chi^2$/NDF: 92.8/78

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.382+/-0.009 $\chi^2$/NDF: 367883.0/15

Left Out: 36.790+/-0.007 $\chi^2$/NDF:2902997.4/22

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642697.3/18

Left In: 35.343+/-0.007 $\chi^2$/NDF:2235433.7/20

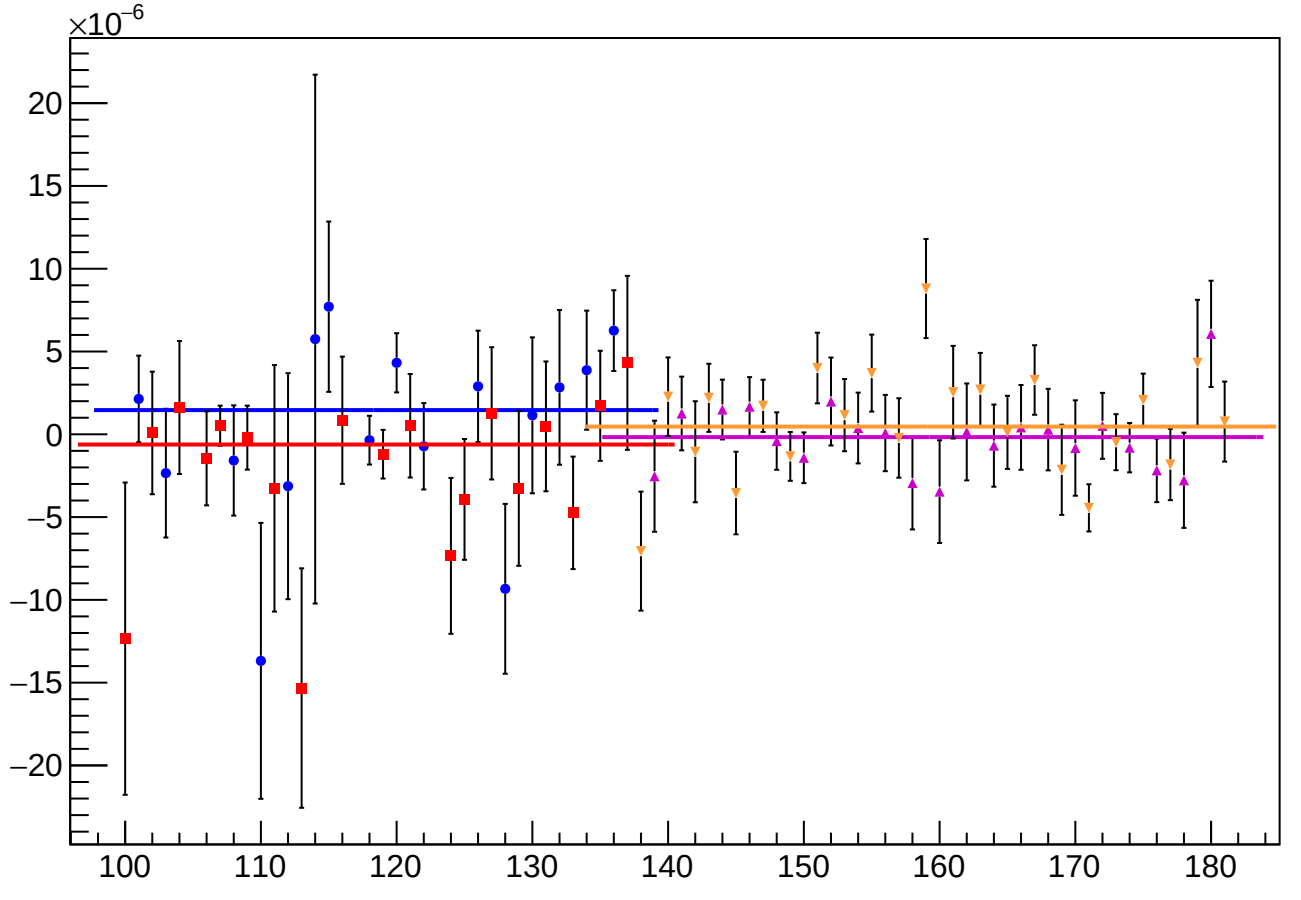
Left: 36.058+/-0.005 $\chi^2$/NDF: 5162906.5/43

Right: 34.212+/-0.007 $\chi^2$/NDF: 1011212.4/34

In: 35.035+/-0.005 $\chi^2$/NDF:2610310.6/36

Out: 35.881+/-0.005 $\chi^2$/NDF:3603343.0/41

All: 35.456+/-0.004 $\chi^2$/NDF: 6226059.6/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:42.9/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:12.5/20

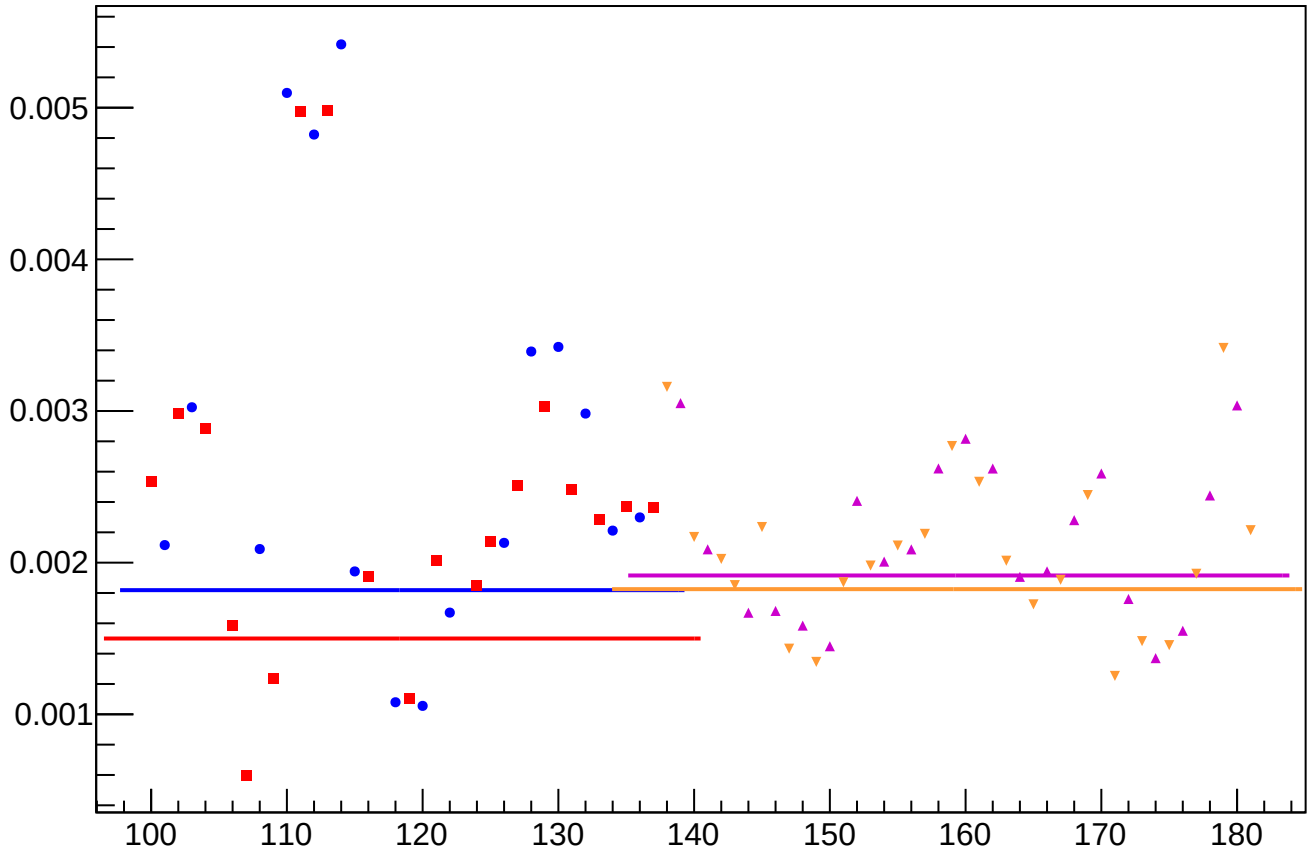
Left: 0.000+/-0.000 $\chi^2$/NDF: 56.4/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 39.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:36.8/36

Out: 0.000+/-0.000 $\chi^2$/NDF:58.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 95.7/78




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2570250.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:2174019.8/22

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3689451.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1882823.2/20

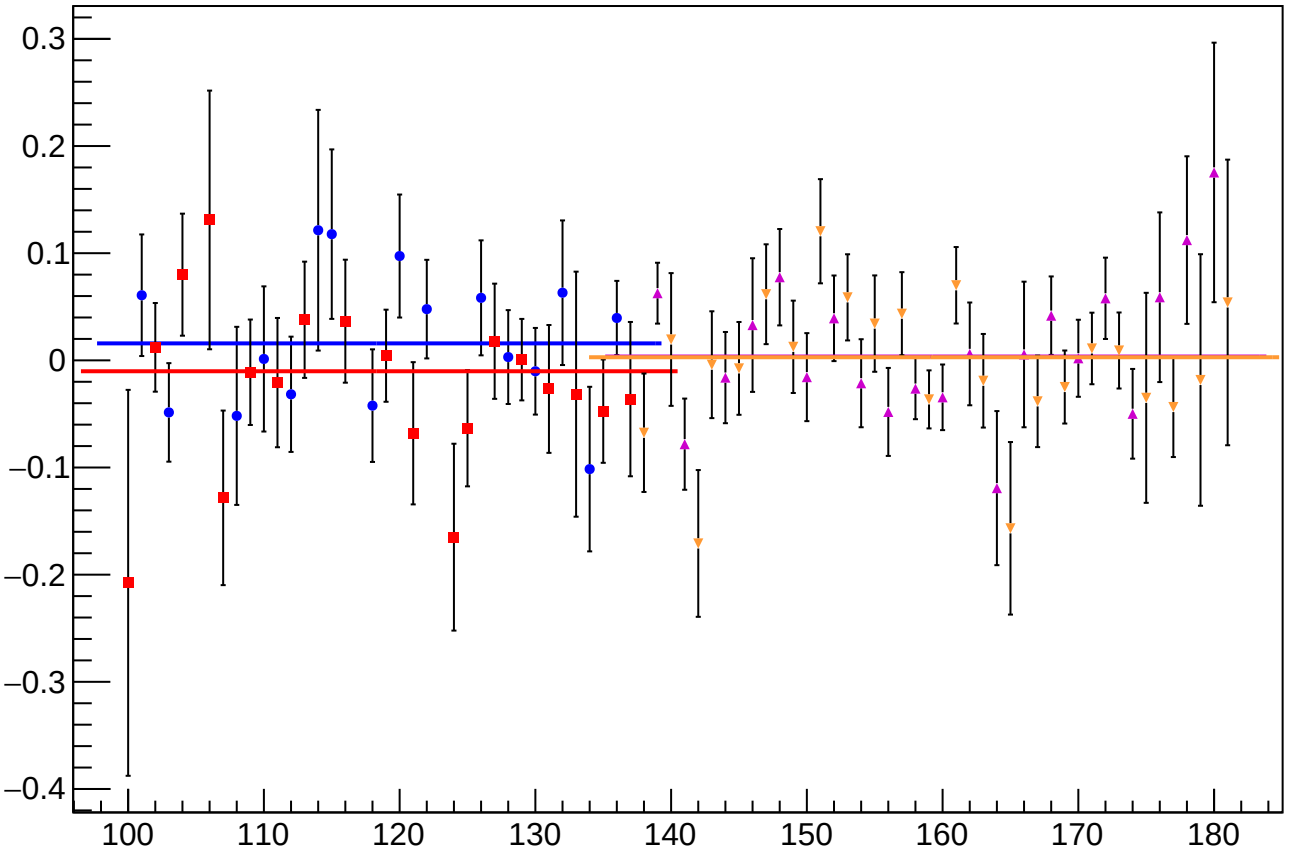
Left: 0.002+/-0.000 $\chi^2$/NDF: 4095096.5/43

Right: 0.002+/-0.000 $\chi^2$/NDF: 6466308.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:4476609.6/36

Out: 0.002+/-0.000 $\chi^2$/NDF:6209059.5/41

All: 0.002+/-0.000 $\chi^2$/NDF: 10871588.5/78




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: 0.003+/-0.009 $\chi^2$/NDF:32.1/22

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.004+/-0.009 $\chi^2$/NDF:28.9/20

Left: 0.003+/-0.007 $\chi^2$/NDF: 61.0/43

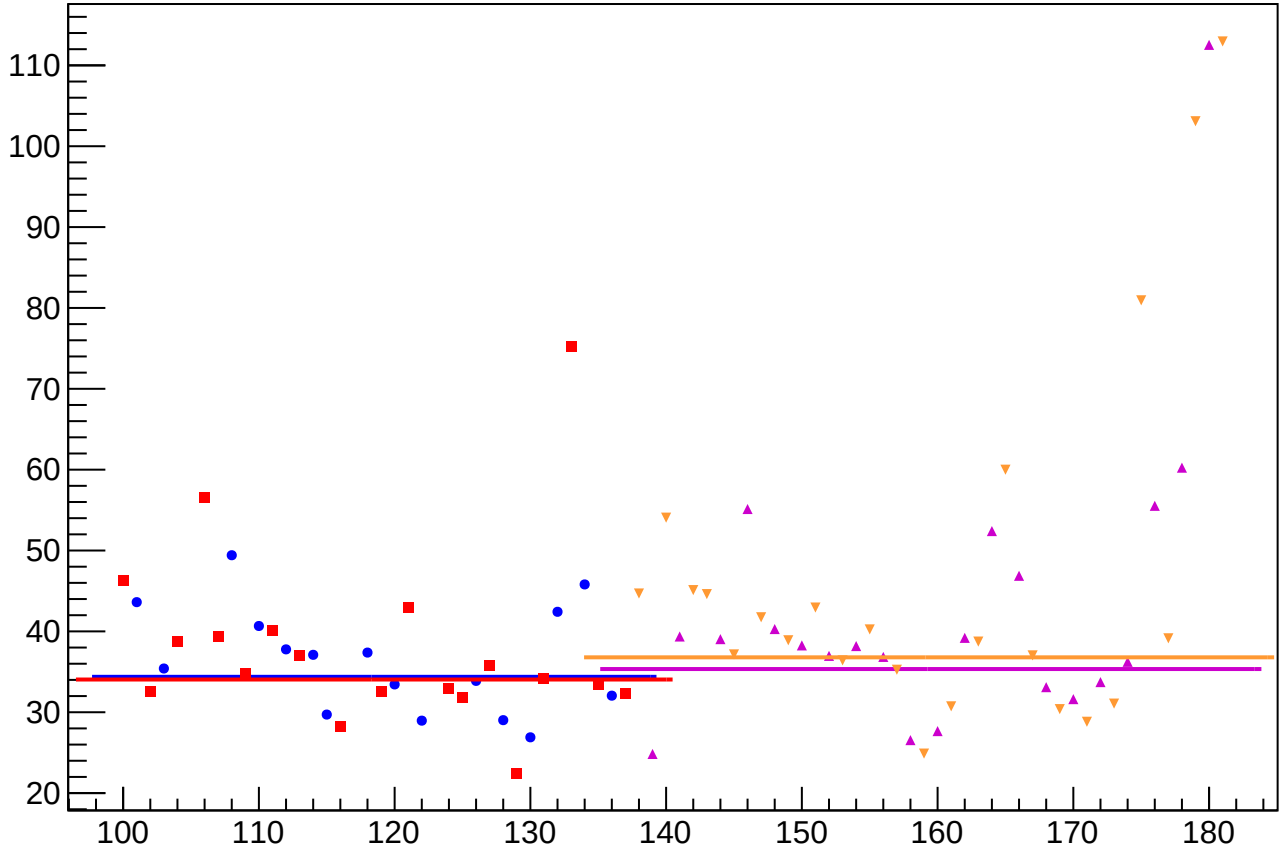
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.008+/-0.008 $\chi^2$/NDF:44.2/36

Out: -0.001+/-0.008 $\chi^2$/NDF:47.8/41

All: 0.003+/-0.005 $\chi^2$/NDF: 92.8/78

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.381+/-0.009 $\chi^2$/NDF: 367940.1/15

Left Out: 36.790+/-0.007 $\chi^2$/NDF:2903053.6/22

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642741.5/18

Left In: 35.343+/-0.007 $\chi^2$/NDF:2235457.1/20

Left: 36.059+/-0.005 $\chi^2$/NDF: 5162982.4/43

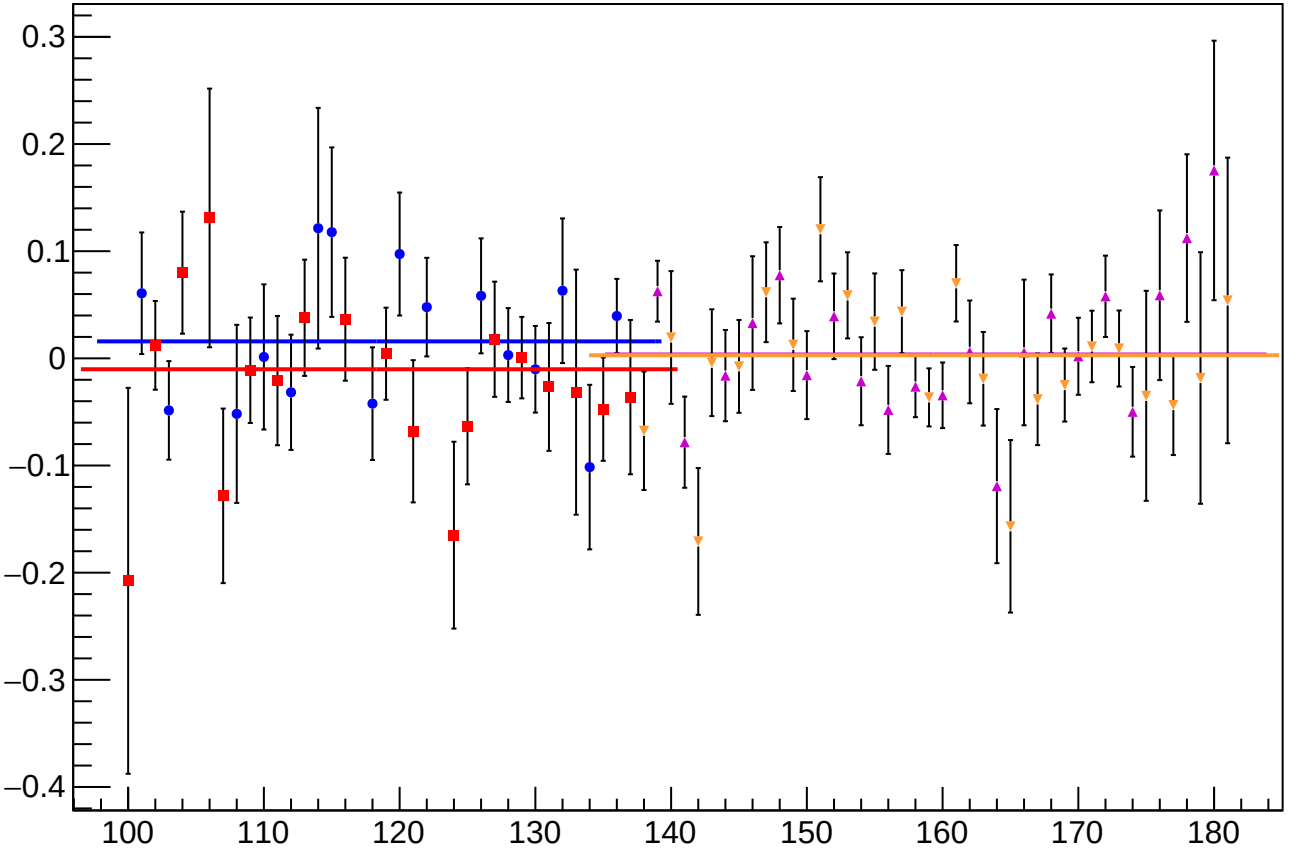
Right: 34.212+/-0.007 $\chi^2$/NDF: 1011312.9/34

In: 35.035+/-0.005 $\chi^2$/NDF:2610406.6/36

Out: 35.881+/-0.005 $\chi^2$/NDF:3603474.5/41

All: 35.456+/-0.004 $\chi^2$/NDF: 6226286.6/78

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: 0.003+/-0.009 $\chi^2$/NDF:32.1/22

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.004+/-0.009 $\chi^2$/NDF:28.9/20

Left: 0.003+/-0.007 $\chi^2$/NDF: 61.0/43

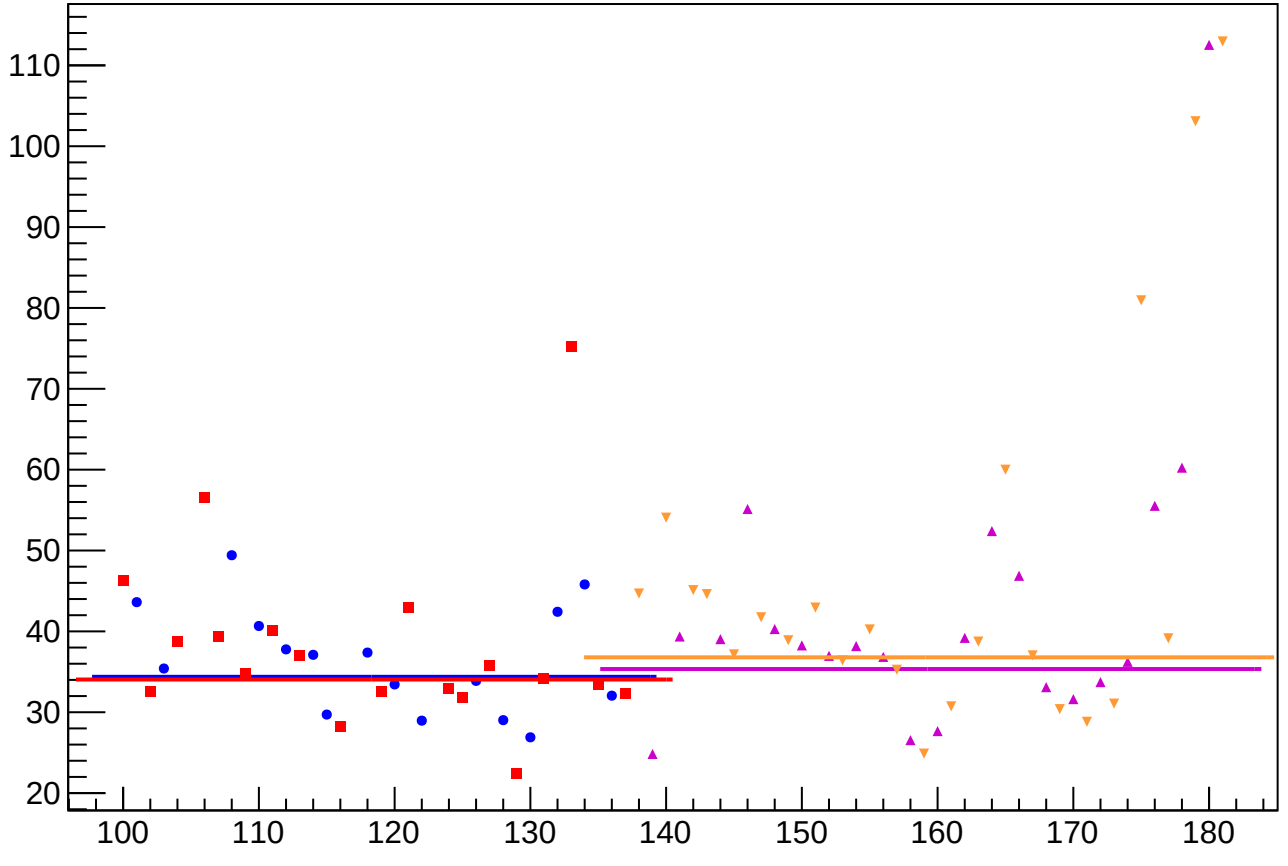
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.008+/-0.008 $\chi^2$/NDF:44.2/36

Out: -0.001+/-0.008 $\chi^2$/NDF:47.8/41

All: 0.003+/-0.005 $\chi^2$/NDF: 92.8/78

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.381+/-0.009 $\chi^2$/NDF: 367940.1/15

Left Out: 36.790+/-0.007 $\chi^2$/NDF:2903053.6/22

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642741.5/18

Left In: 35.343+/-0.007 $\chi^2$/NDF:2235457.1/20

Left: 36.059+/-0.005 $\chi^2$/NDF: 5162982.4/43

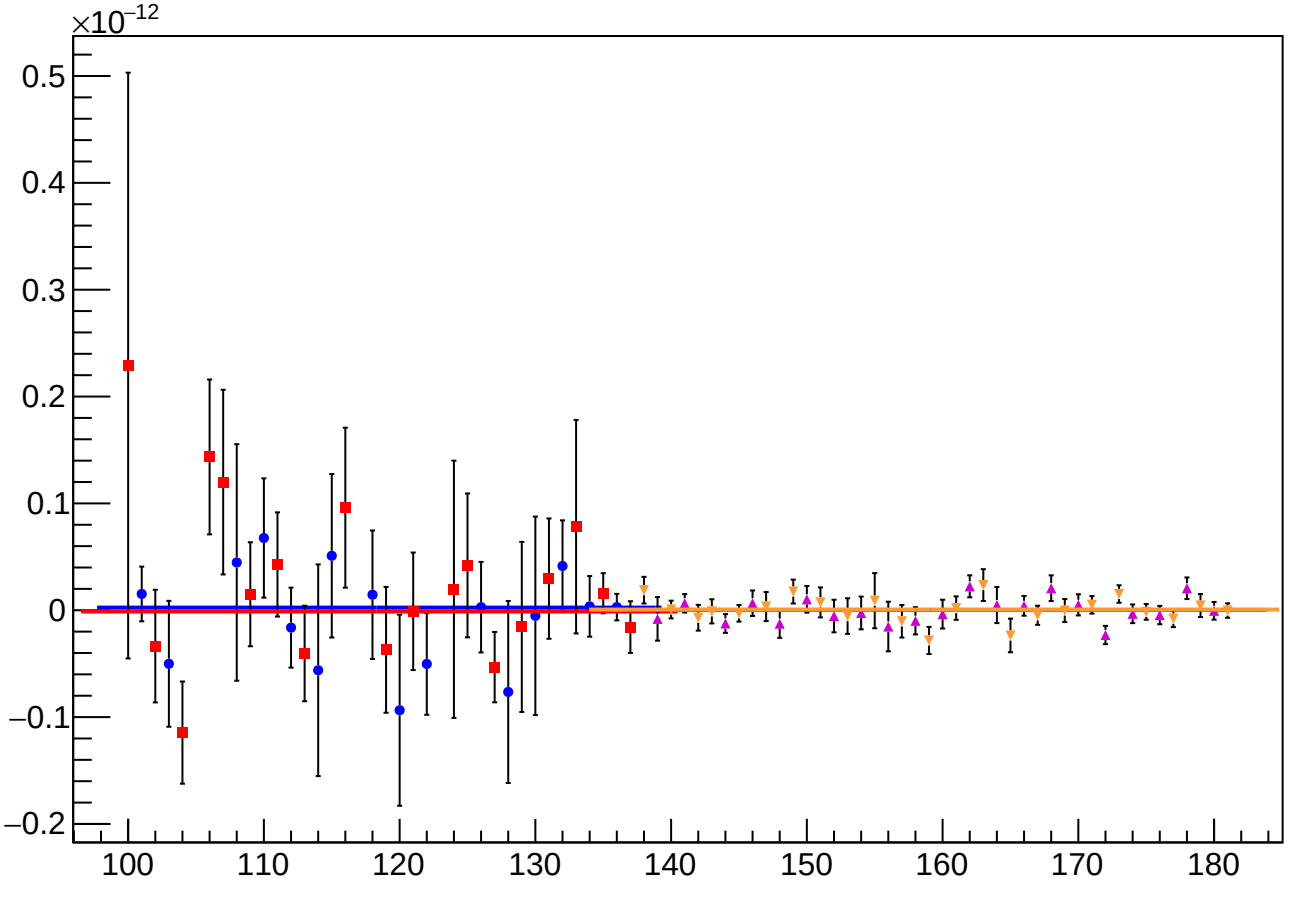
Right: 34.212+/-0.007 $\chi^2$/NDF: 1011312.9/34

In: 35.035+/-0.005 $\chi^2$/NDF:2610406.6/36

Out: 35.881+/-0.005 $\chi^2$/NDF:3603474.5/41

All: 35.456+/-0.004 $\chi^2$/NDF: 6226286.6/78

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 7.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.2/22

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.9/20

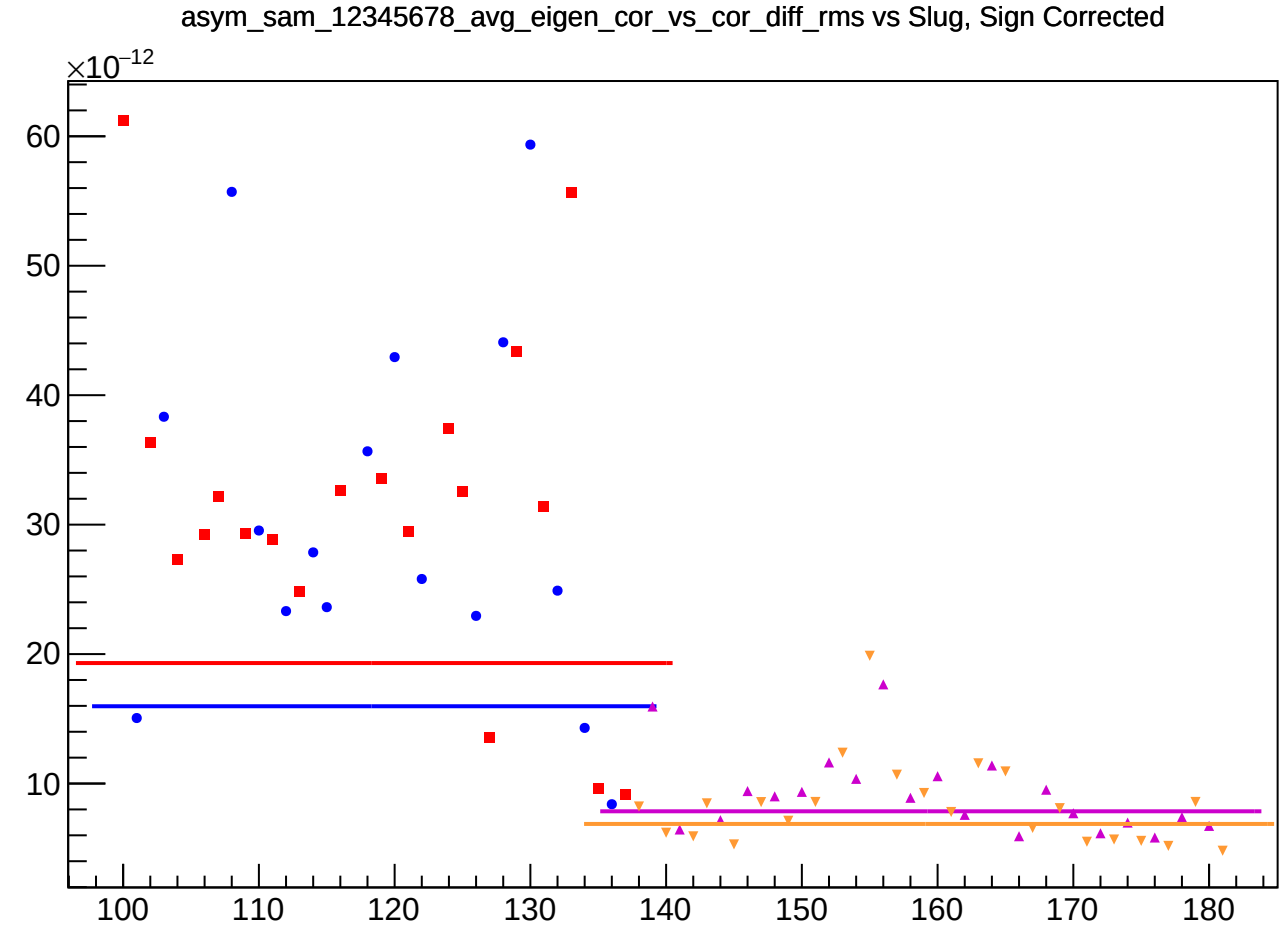
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.2/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:33.7/36

Out: 0.000+/-0.000 $\chi^2$/NDF:42.8/41

All: 0.000+/-0.000 $\chi^2$/NDF: 76.5/78




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2822278.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2017887.7/22

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2440768.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1552326.8/20

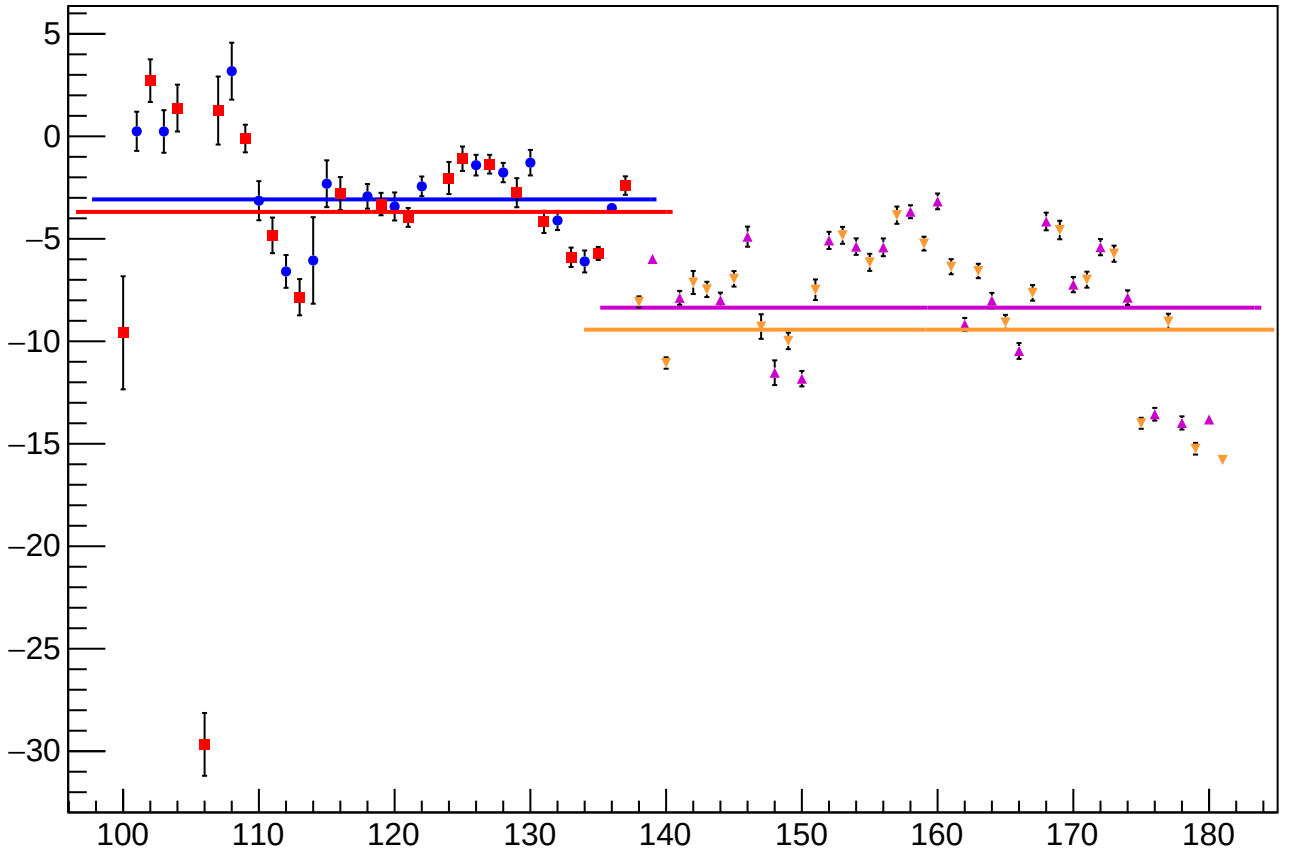
Left: 0.000+/-0.000 $\chi^2$/NDF: 3756644.6/43

Right: 0.000+/-0.000 $\chi^2$/NDF: 5386653.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:5986537.3/36

Out: 0.000+/-0.000 $\chi^2$/NDF:7301139.6/41

All: 0.000+/-0.000 $\chi^2$/NDF: 13502382.1/78




Right In: -3.077+/-0.135 $\chi^2$/NDF: 133.8/15

Left Out: -9.433+/-0.073 $\chi^2$/NDF:2726.9/22

Right Out: -3.687+/-0.140 $\chi^2$/NDF: 534.8/18

Left In: -8.360+/-0.077 $\chi^2$/NDF:2100.9/20

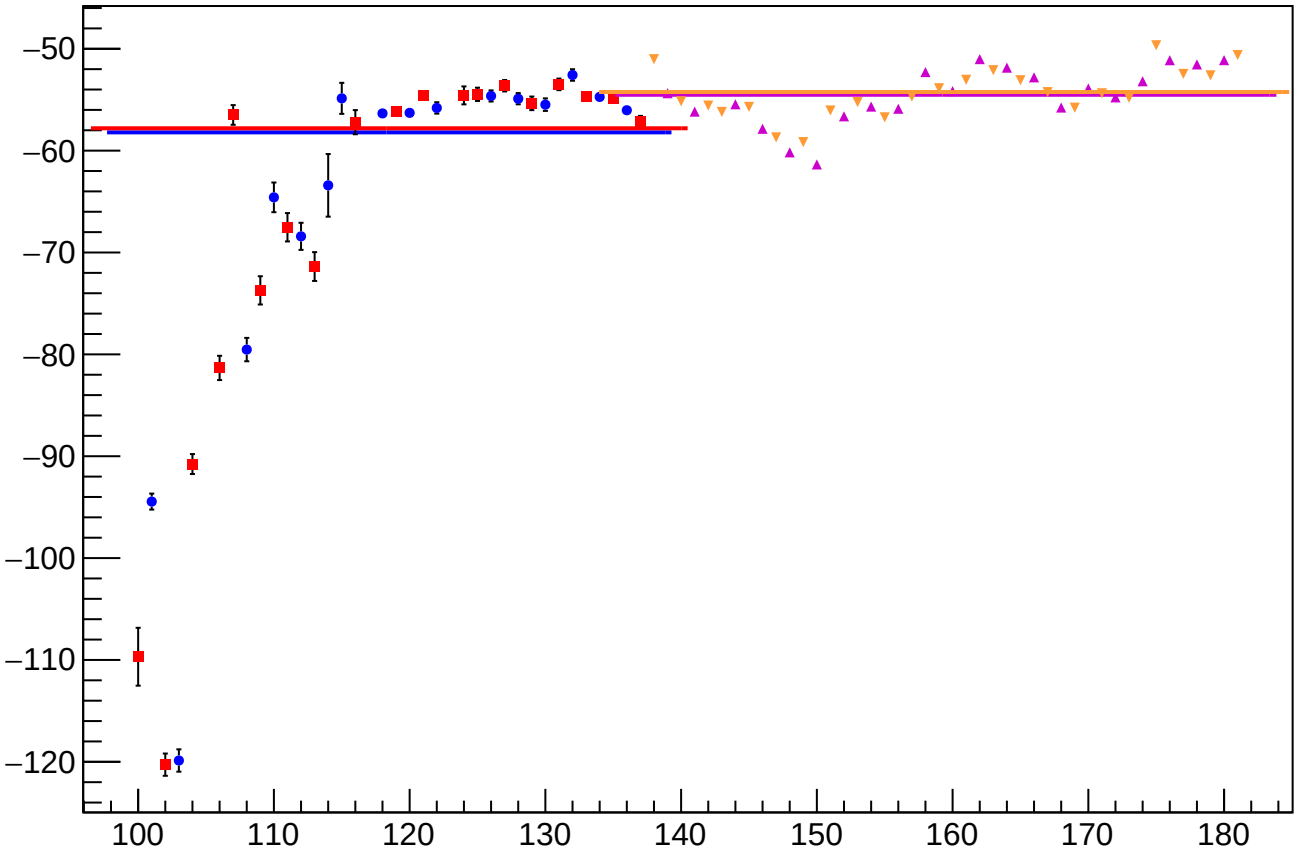
Left: -8.925+/-0.053 $\chi^2$/NDF: 4929.4/43

Right: -3.371+/-0.097 $\chi^2$/NDF: 678.4/34

In: -7.061+/-0.067 $\chi^2$/NDF:3385.8/36

Out: -8.202+/-0.065 $\chi^2$/NDF:4581.6/41

All: -7.650+/-0.047 $\chi^2$/NDF: 8116.8/78




Right In: -58.204+/-0.136 $\chi^2$/NDF: 6126.9/15

Left Out: -54.243+/-0.058 $\chi^2$/NDF:1730.9/22

Right Out: -57.804+/-0.138 $\chi^2$/NDF: 5792.7/18

Left In: -54.515+/-0.061 $\chi^2$/NDF:2263.2/20

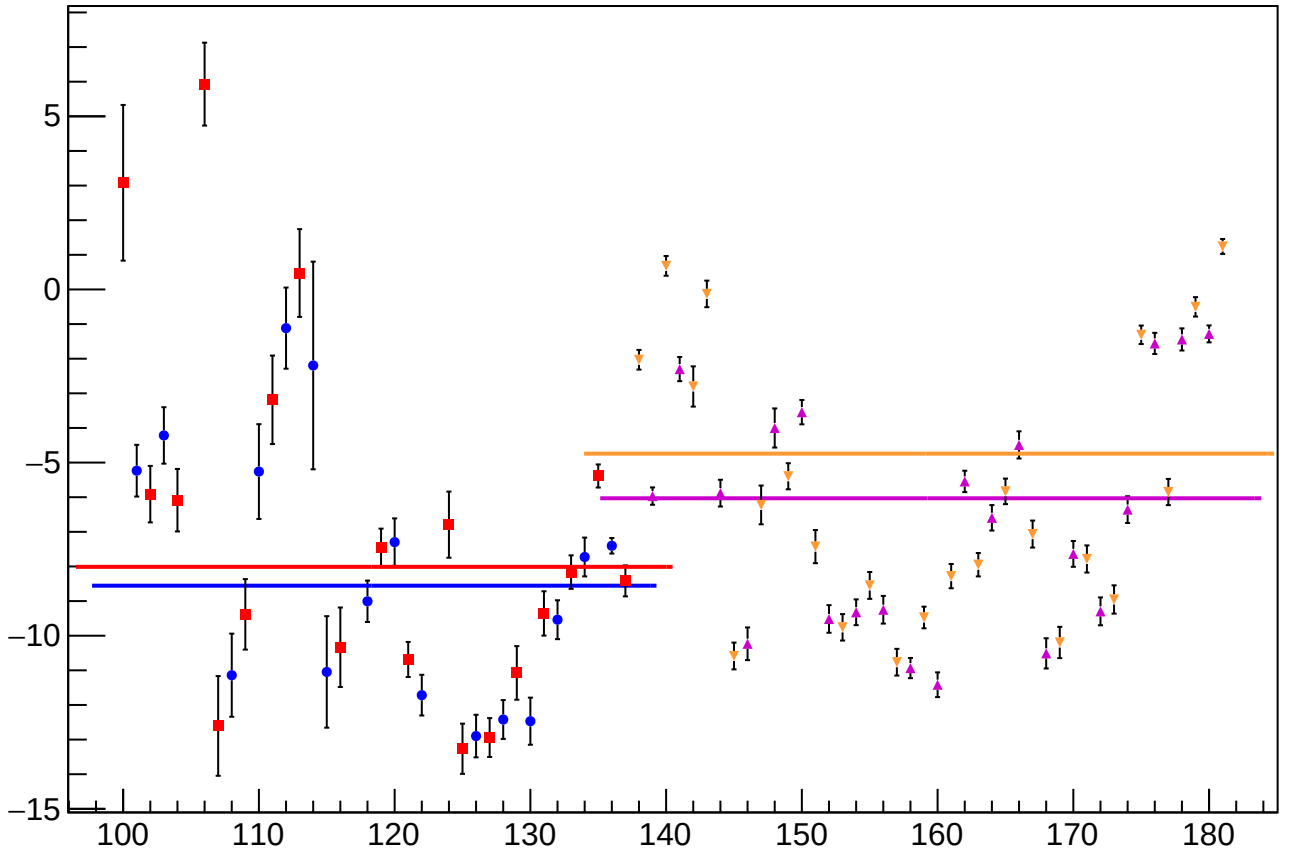
Left: -54.371+/-0.042 $\chi^2$/NDF: 4004.6/43

Right: -58.008+/-0.097 $\chi^2$/NDF: 11923.9/34

In: -55.138+/-0.056 $\chi^2$/NDF:9005.7/36

Out: -54.771+/-0.053 $\chi^2$/NDF:8086.8/41

All: -54.946+/-0.039 $\chi^2$/NDF: 17115.2/78




Right In: -8.555+/-0.145 $\chi^2$/NDF: 300.7/15

Left Out: -4.742+/-0.073 $\chi^2$/NDF:3340.1/22

Right Out: -8.011+/-0.153 $\chi^2$/NDF: 489.3/18

Left In: -6.031+/-0.076 $\chi^2$/NDF:1991.3/20

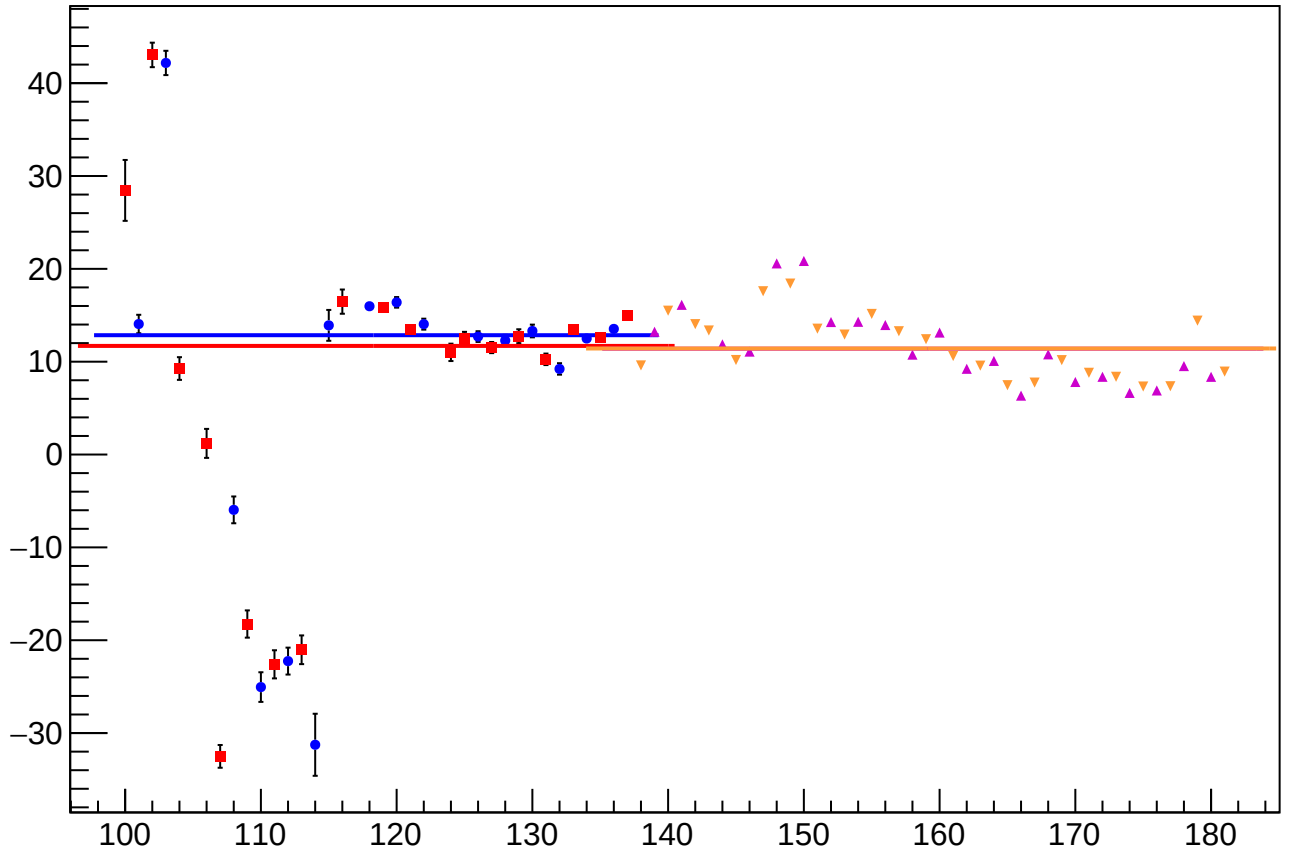
Left: -5.357+/-0.053 $\chi^2$/NDF: 5481.7/43

Right: -8.298+/-0.105 $\chi^2$/NDF: 796.7/34

In: -6.578+/-0.067 $\chi^2$/NDF:2530.3/36

Out: -5.344+/-0.066 $\chi^2$/NDF:4202.3/41

All: -5.944+/-0.047 $\chi^2$/NDF: 6905.0/78




Right In: 12.853+/-0.150 $\chi^2$/NDF: 2128.4/15

Left Out: 11.423+/-0.064 $\chi^2$/NDF:2424.3/22

Right Out: 11.699+/-0.155 $\chi^2$/NDF: 3498.8/18

Left In: 11.401+/-0.068 $\chi^2$/NDF:3237.0/20

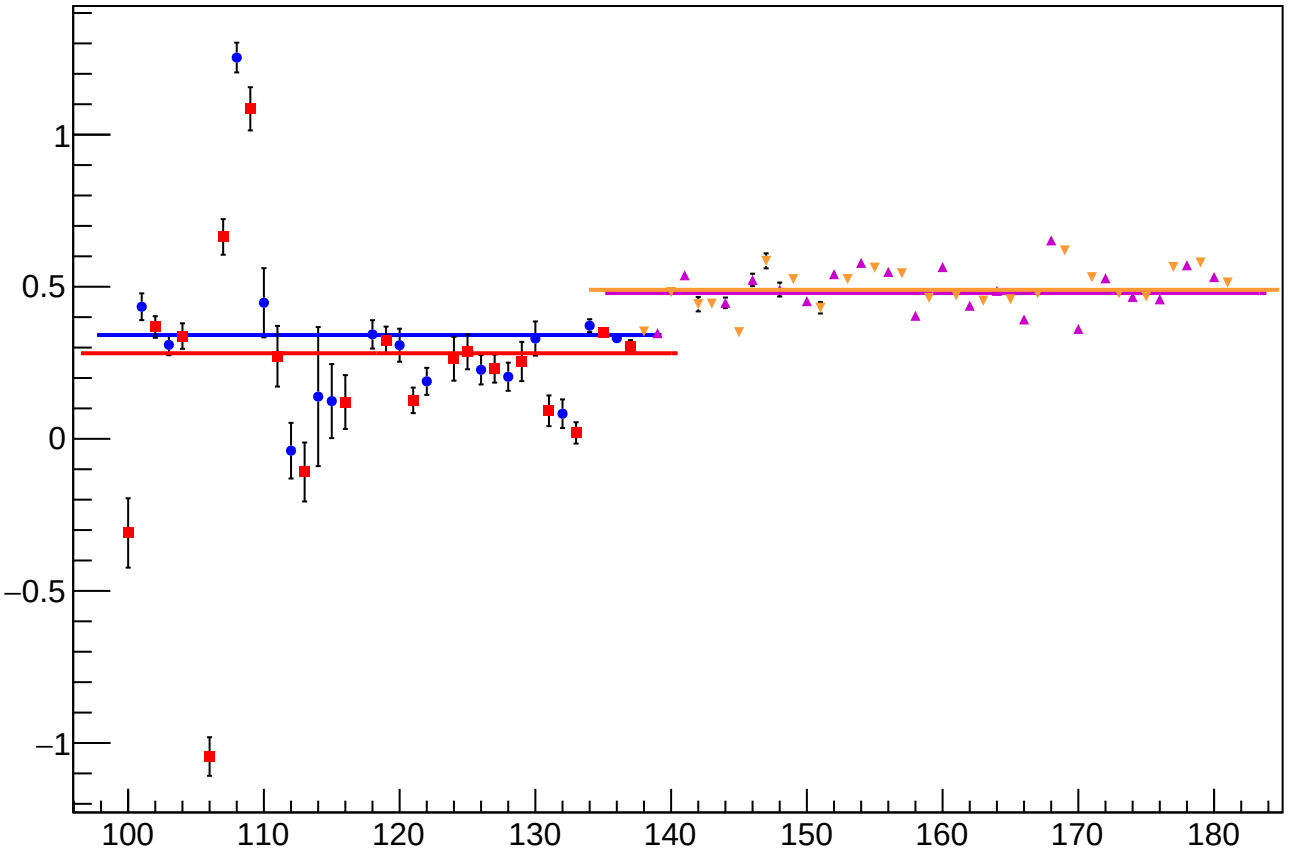
Left: 11.412+/-0.047 $\chi^2$/NDF: 5661.3/43

Right: 12.294+/-0.108 $\chi^2$/NDF: 5655.7/34

In: 11.645+/-0.062 $\chi^2$/NDF:5443.0/36

Out: 11.463+/-0.059 $\chi^2$/NDF:5925.8/41

All: 11.551+/-0.043 $\chi^2$/NDF: 11373.3/78




Right In: 0.341+/-0.008 $\chi^2$/NDF: 434.8/15

Left Out: 0.490+/-0.003 $\chi^2$/NDF:528.9/22

Right Out: 0.281+/-0.008 $\chi^2$/NDF: 777.6/18

Left In: 0.479+/-0.003 $\chi^2$/NDF:795.7/20

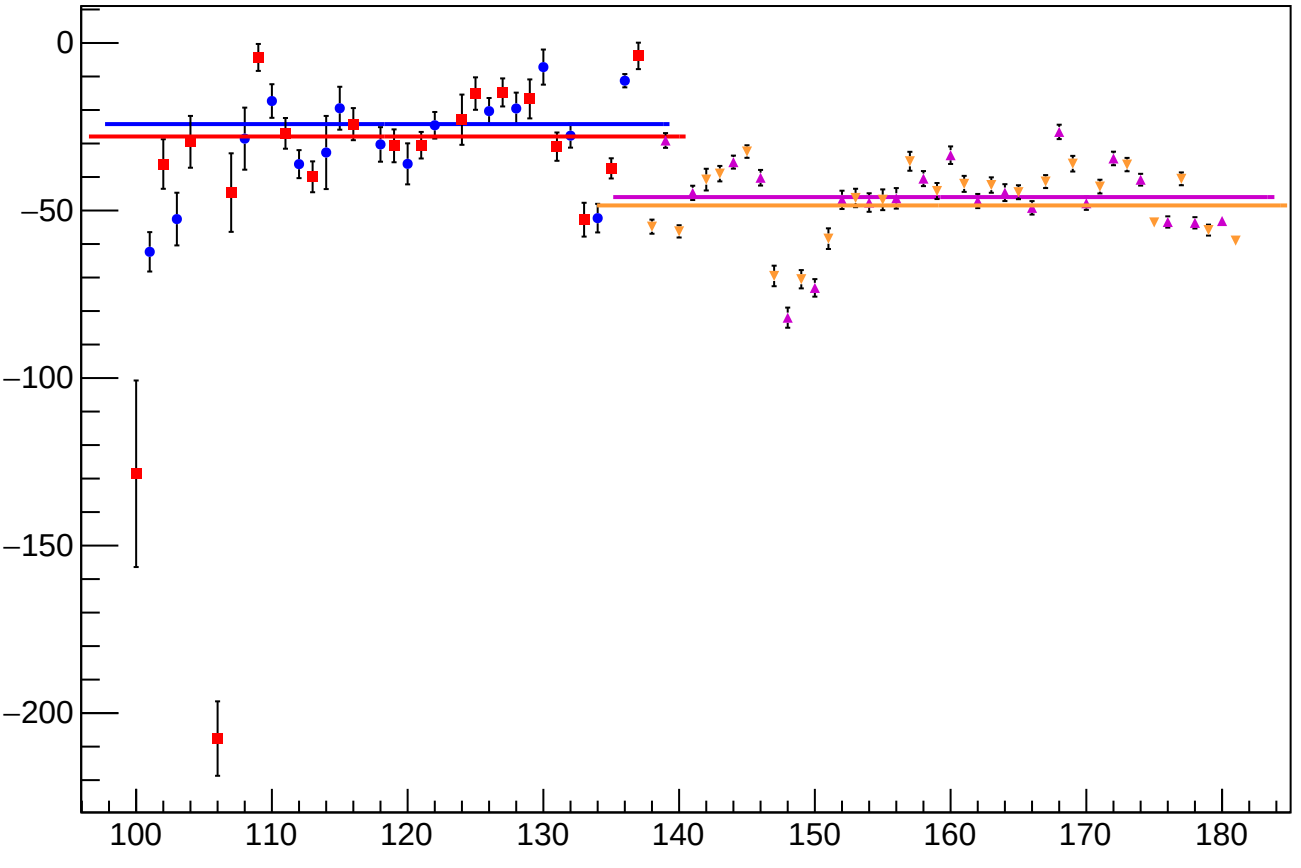
Left: 0.485+/-0.002 $\chi^2$/NDF: 1331.4/43

Right: 0.313+/-0.006 $\chi^2$/NDF: 1239.2/34

In: 0.463+/-0.003 $\chi^2$/NDF:1501.2/36

Out: 0.469+/-0.003 $\chi^2$/NDF:1851.3/41

All: 0.466+/-0.002 $\chi^2$/NDF: 3354.9/78




Right In: -24.205+/-1.086 $\chi^2$/NDF: 170.7/15

Left Out: -48.481+/-0.429 $\chi^2$/NDF:518.5/22

Right Out: -27.906+/-1.137 $\chi^2$/NDF: 413.4/18

Left In: -45.988+/-0.456 $\chi^2$/NDF:571.4/20

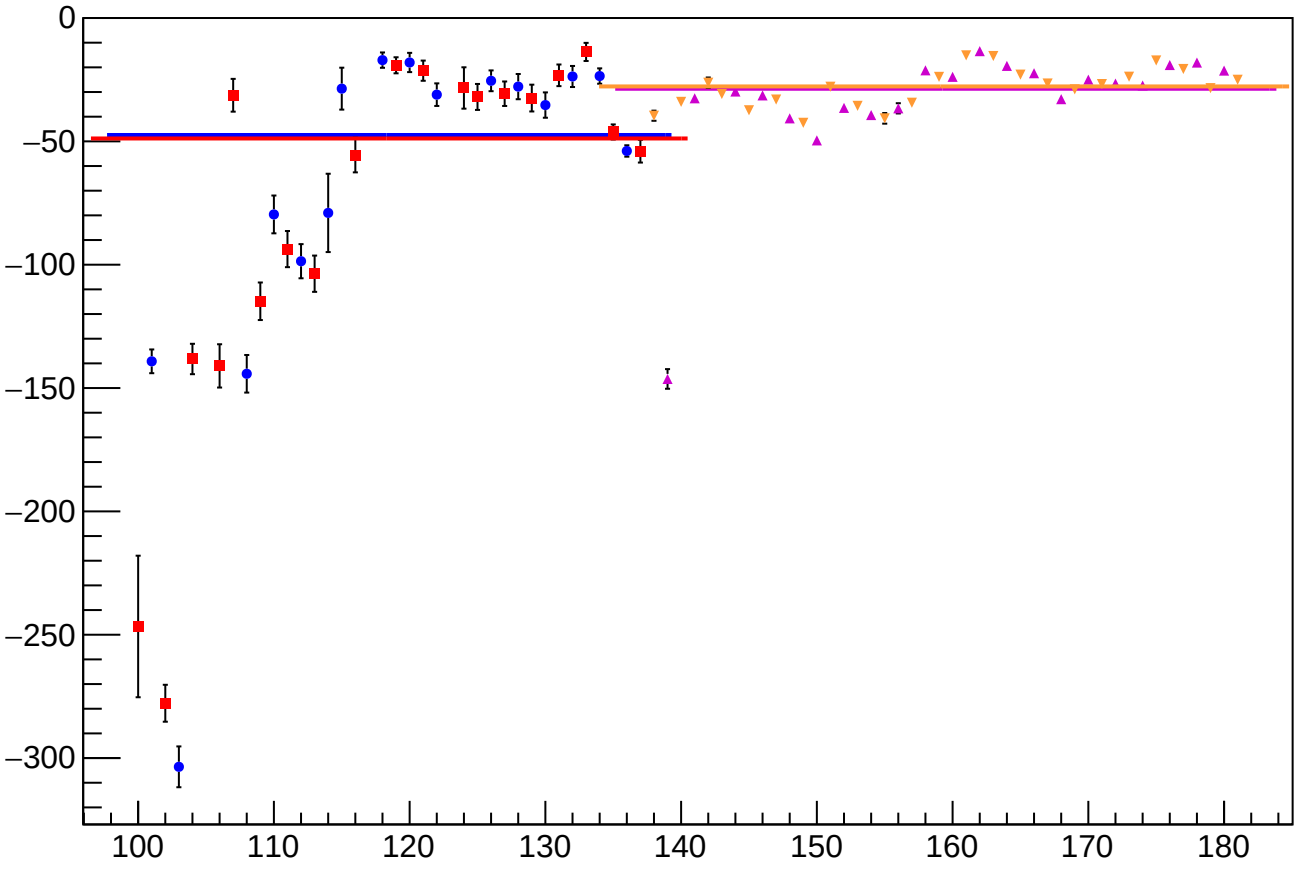
Left: -47.311+/-0.312 $\chi^2$/NDF: 1105.8/43

Right: -25.971+/-0.785 $\chi^2$/NDF: 589.7/34

In: -42.726+/-0.420 $\chi^2$/NDF:1084.0/36

Out: -45.921+/-0.401 $\chi^2$/NDF:1218.6/41

All: -44.399+/-0.290 $\chi^2$/NDF: 2332.8/78




Right In: -47.421+/-1.101 $\chi^2$/NDF: 1873.5/15

Left Out: -27.736+/-0.335 $\chi^2$/NDF:468.1/22

Right Out: -48.831+/-1.182 $\chi^2$/NDF: 1774.6/18

Left In: -28.675+/-0.351 $\chi^2$/NDF:1460.3/20

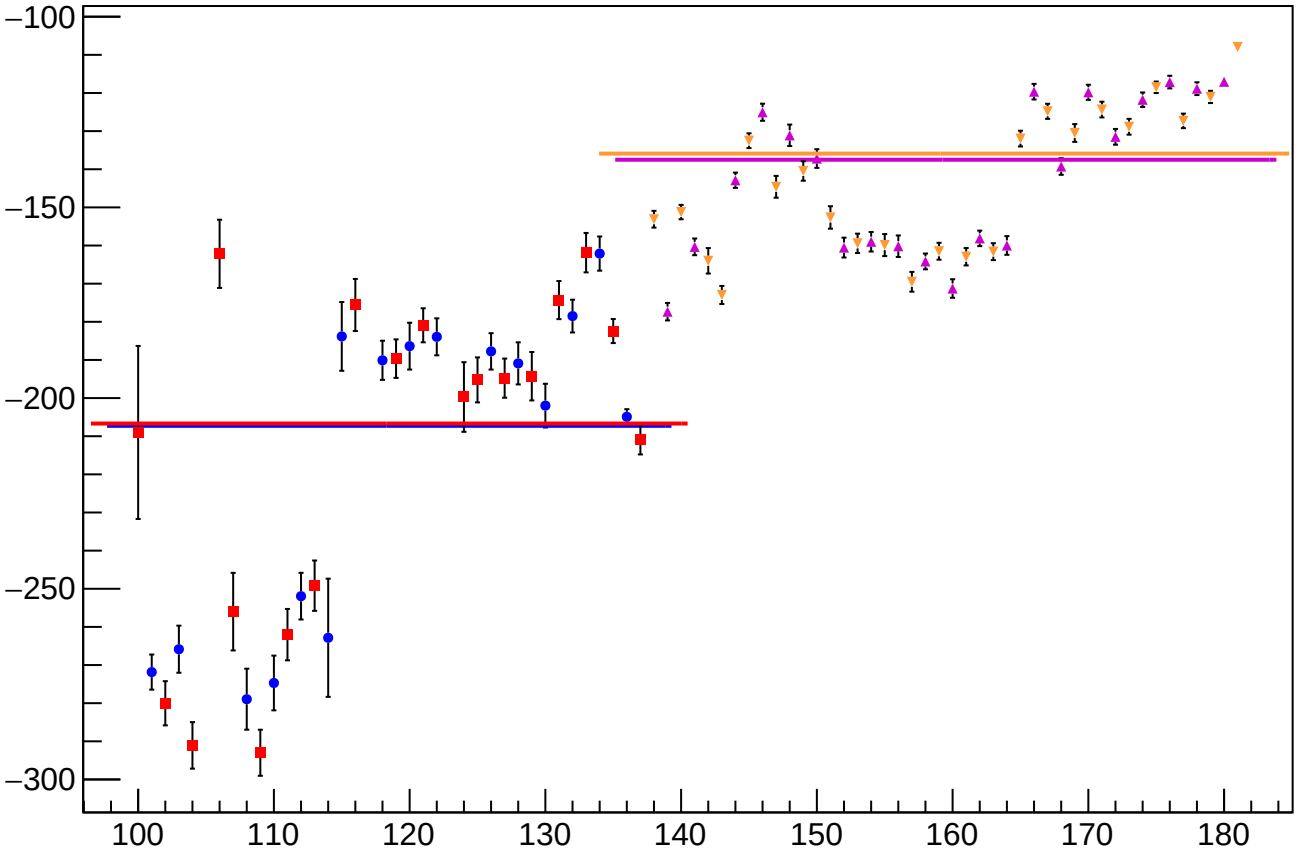
Left: -28.184+/-0.242 $\chi^2$/NDF: 1932.2/43

Right: -48.076+/-0.806 $\chi^2$/NDF: 3648.9/34

In: -30.406+/-0.335 $\chi^2$/NDF:3597.0/36

Out: -29.303+/-0.322 $\chi^2$/NDF:2537.4/41

All: -29.834+/-0.232 $\chi^2$/NDF: 6140.0/78




Right In: -207.266+/-1.178 $\chi^2$/NDF: 748.5/15

Left Out: -135.894+/-0.427 $\chi^2$/NDF:2161.8/22

Right Out: -206.673+/-1.279 $\chi^2$/NDF: 969.4/18

Left In: -137.501+/-0.451 $\chi^2$/NDF:1971.0/20

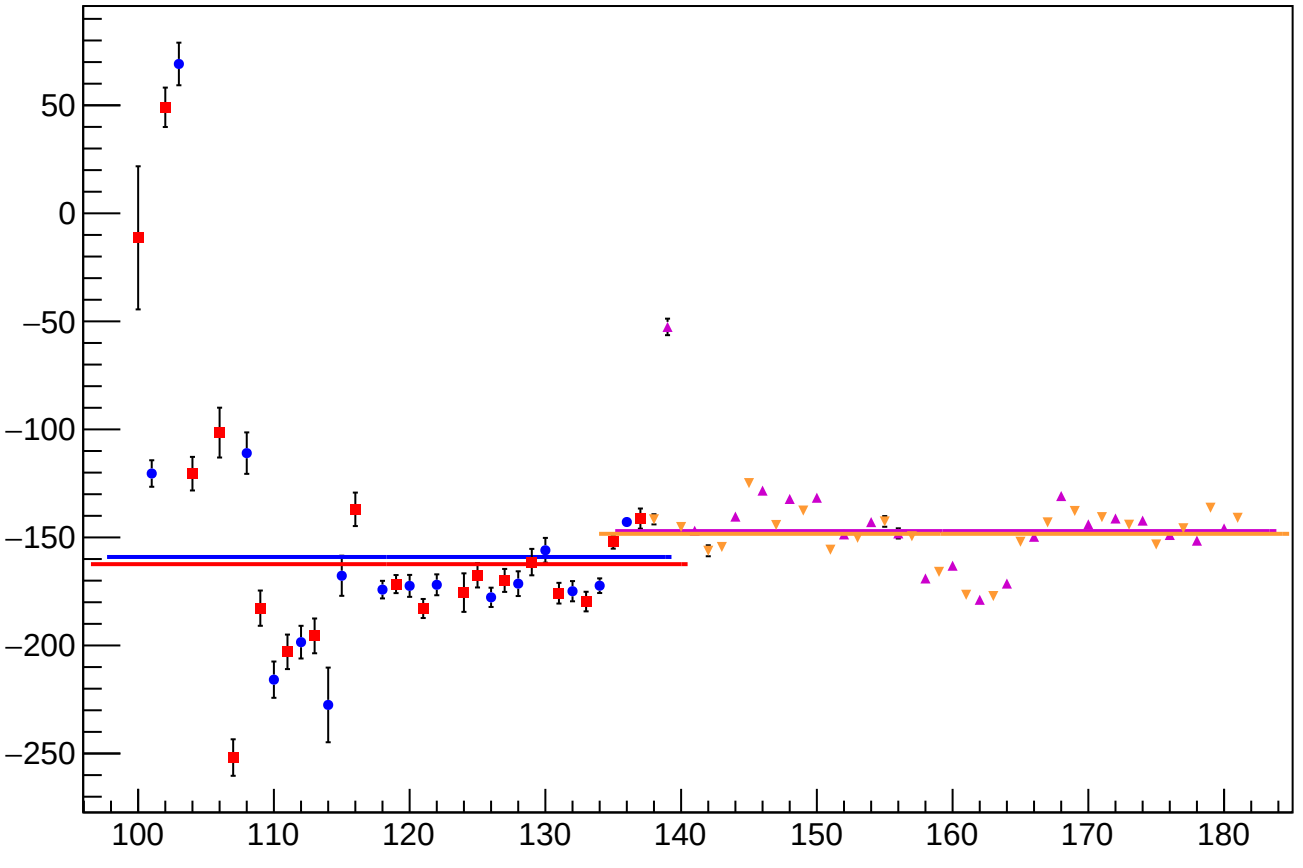
Left: -136.654+/-0.310 $\chi^2$/NDF: 4139.4/43

Right: -206.994+/-0.867 $\chi^2$/NDF: 1718.0/34

In: -146.421+/-0.421 $\chi^2$/NDF:5776.7/36

Out: -143.000+/-0.405 $\chi^2$/NDF:5884.2/41

All: -144.645+/-0.292 $\chi^2$/NDF: 11695.2/78




Right In: -159.048+/-1.225 $\chi^2$/NDF: 815.8/15

Left Out: -148.331+/-0.375 $\chi^2$/NDF:1101.4/22

Right Out: -162.370+/-1.324 $\chi^2$/NDF: 872.6/18

Left In: -147.066+/-0.392 $\chi^2$/NDF:1721.1/20

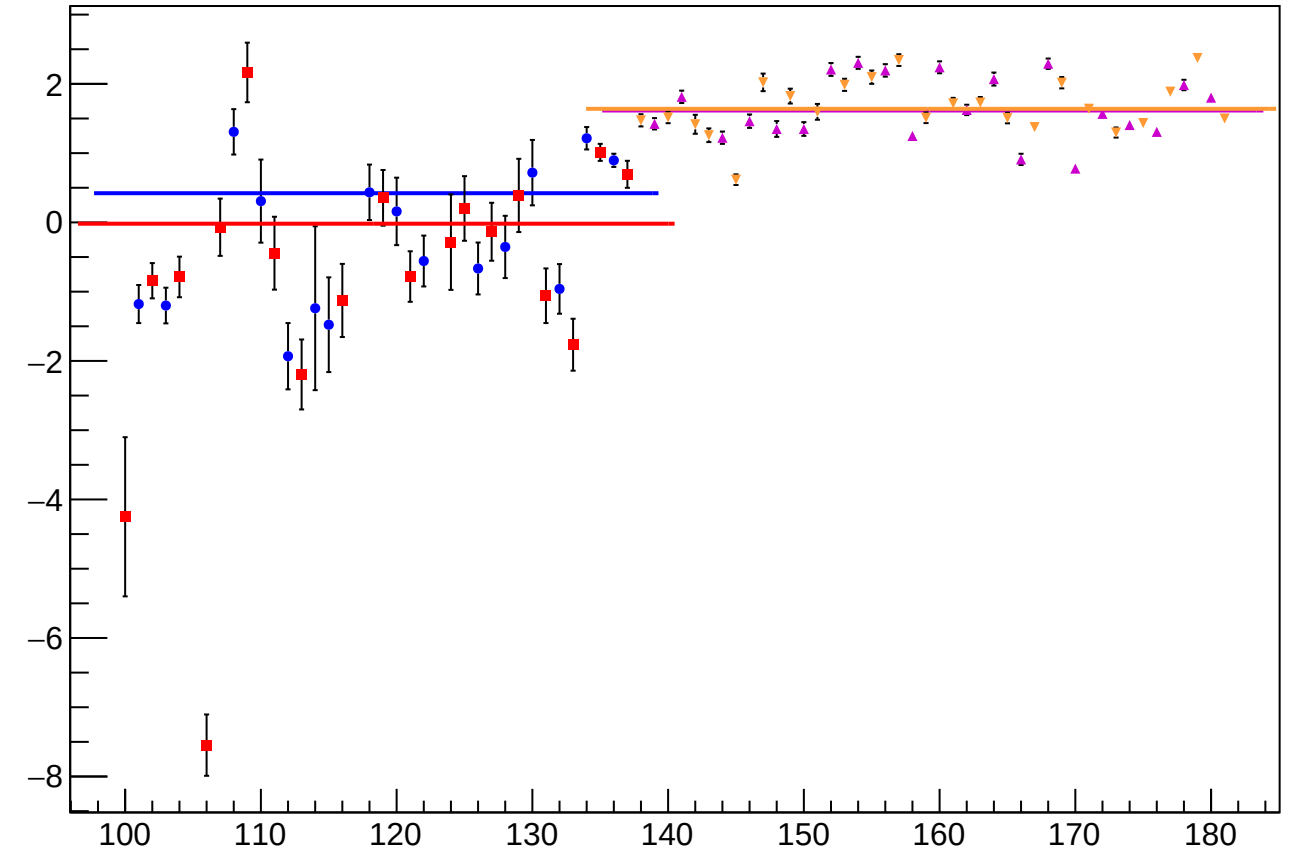
Left: -147.726+/-0.271 $\chi^2$/NDF: 2827.9/43

Right: -160.581+/-0.899 $\chi^2$/NDF: 1691.7/34

In: -148.179+/-0.373 $\chi^2$/NDF:2623.6/36

Out: -149.376+/-0.361 $\chi^2$/NDF:2078.0/41

All: -148.797+/-0.260 $\chi^2$/NDF: 4706.9/78




Right In: 0.421+/-0.065 $\chi^2$/NDF: 197.6/15

Left Out: 1.640+/-0.017 $\chi^2$/NDF:519.4/22

Right Out: -0.019+/-0.072 $\chi^2$/NDF: 488.2/18

Left In: 1.616+/-0.017 $\chi^2$/NDF:663.2/20

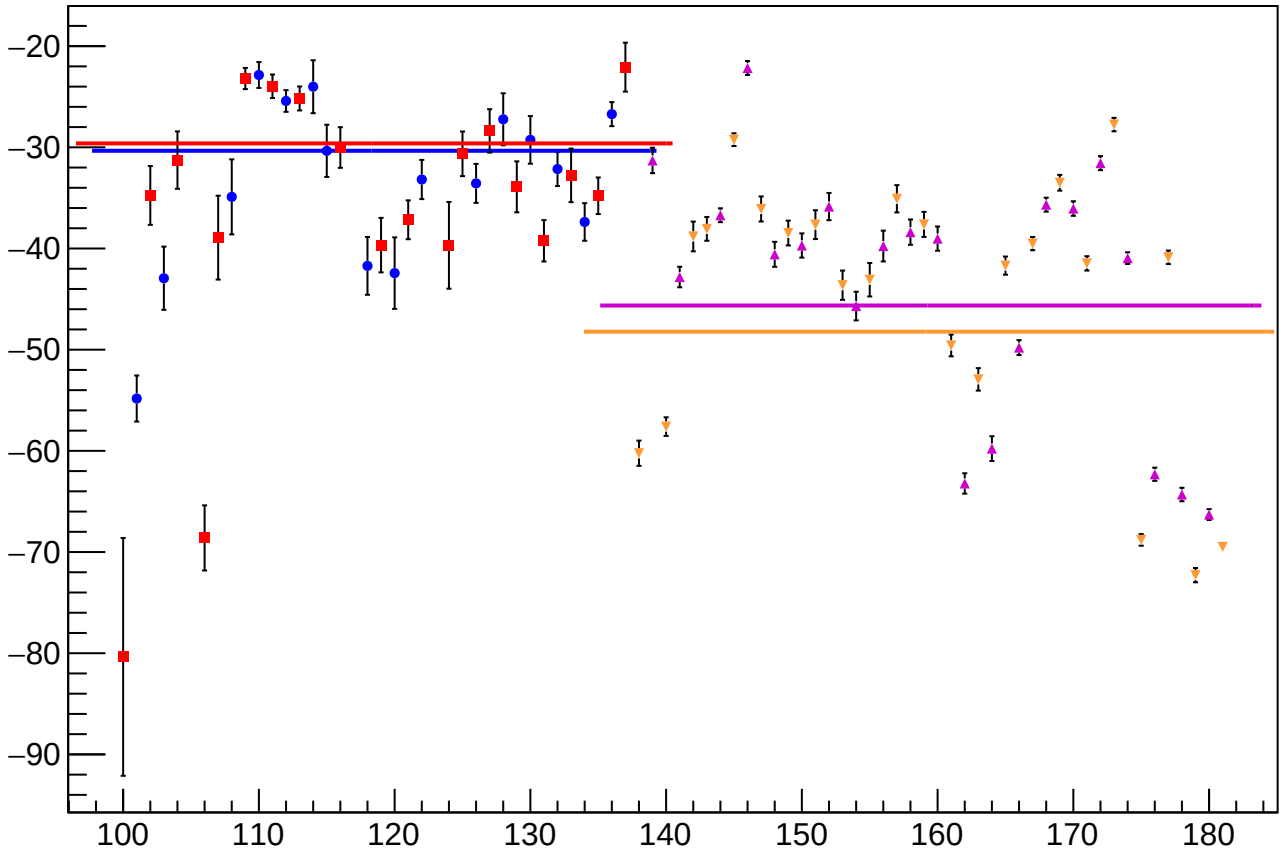
Left: 1.628+/-0.012 $\chi^2$/NDF: 1183.6/43

Right: 0.225+/-0.048 $\chi^2$/NDF: 706.4/34

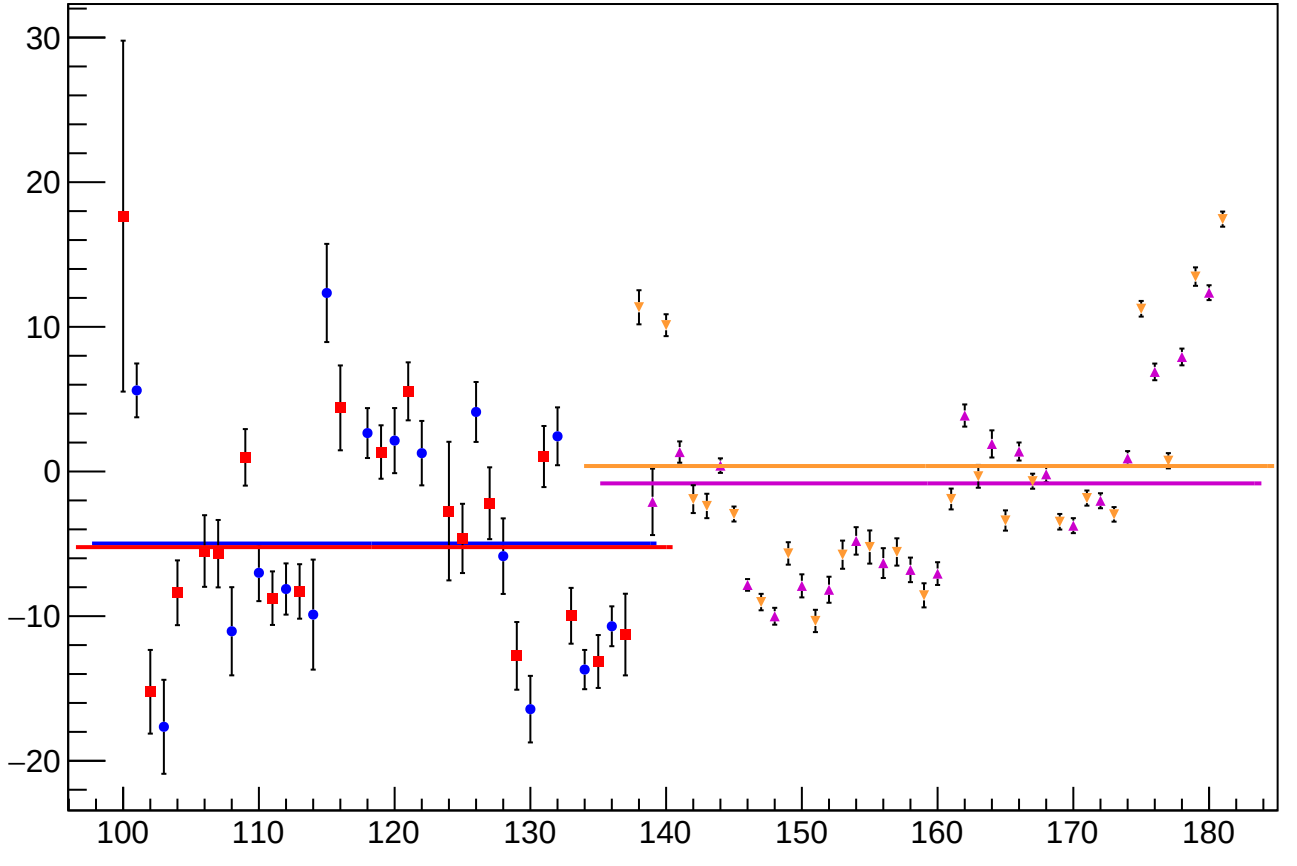
In: 1.536+/-0.017 $\chi^2$/NDF:1177.5/36

Out: 1.554+/-0.016 $\chi^2$/NDF:1506.7/41

All: 1.545+/-0.012 $\chi^2$/NDF: 2684.8/78


reg_asym_sam3_diff_bpm1X_slope vs Slug, Sign Corrected
−20
−30
−40
−50
−60
−70
−80
−90
100
110
120
130
140
150
160
170
180
Right In: -30.341+/-0.468 χ²/NDF: 253.6/15
Left Out: -48.224+/-0.177 χ²/NDF:7775.2/22
Right Out: -29.613+/-0.450 χ²/NDF: 329.2/18
Left In: -45.634+/-0.180 χ²/NDF:5889.7/20
Left: -46.958+/-0.126 χ²/NDF: 13770.2/43
Right: -29.963+/-0.324 χ²/NDF: 584.0/34
In: -43.653+/-0.168 χ²/NDF:7073.5/36
Out: -45.746+/-0.164 χ²/NDF:9584.2/41
All: -44.725+/-0.118 χ²/NDF: 16736.8/78

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -4.980+/-0.510 $\chi^2$/NDF: 237.3/15

Left Out: 0.378+/-0.137 $\chi^2$/NDF:3100.0/22

Right Out: -5.228+/-0.524 $\chi^2$/NDF: 136.5/18

Left In: -0.822+/-0.138 $\chi^2$/NDF:2041.3/20

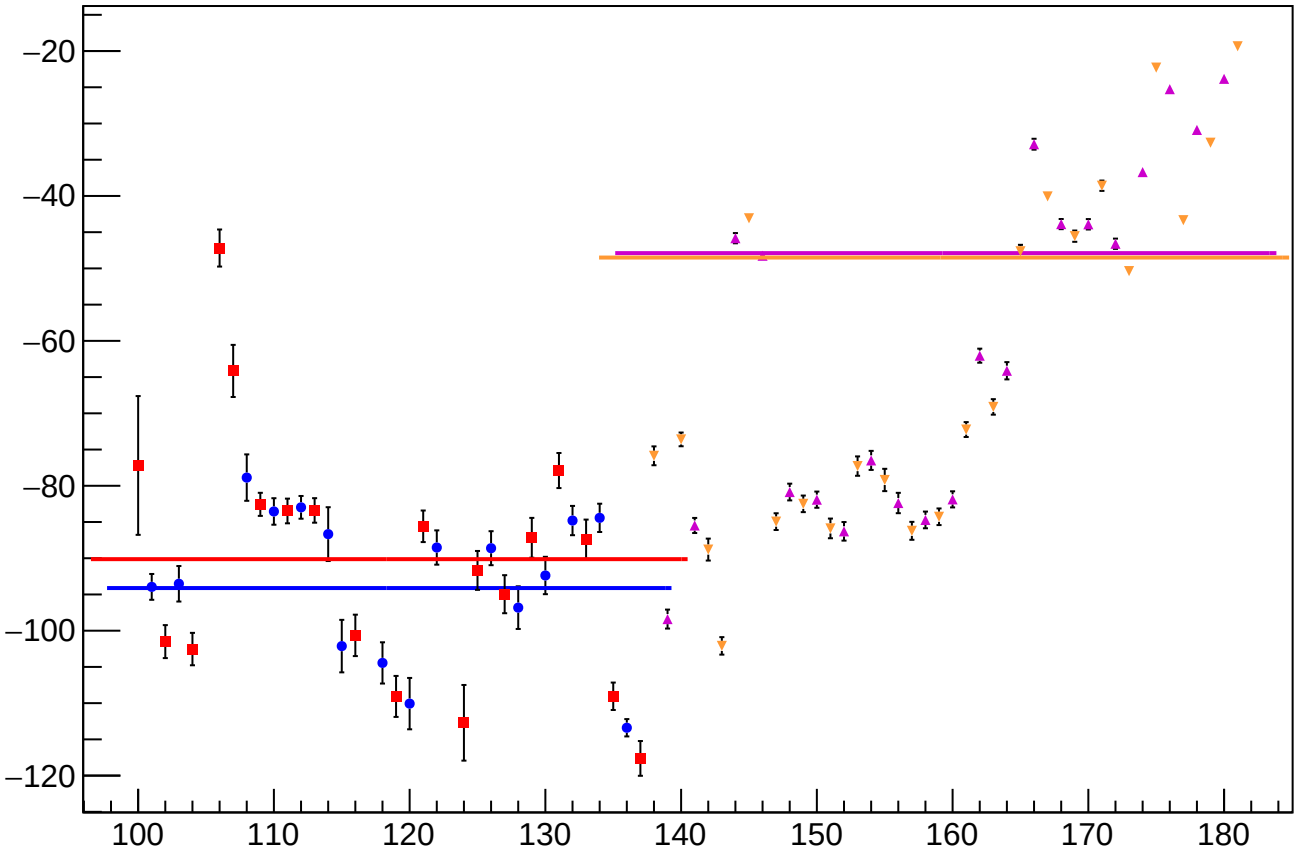
Left: -0.221+/-0.097 $\chi^2$/NDF: 5179.3/43

Right: -5.100+/-0.365 $\chi^2$/NDF: 373.9/34

In: -1.104+/-0.133 $\chi^2$/NDF:2340.6/36

Out: 0.017+/-0.133 $\chi^2$/NDF:3343.7/41

All: -0.545+/-0.094 $\chi^2$/NDF: 5719.9/78




Right In: -94.115+/-0.537 $\chi^2$/NDF: 466.8/15

Left Out: -48.501+/-0.177 $\chi^2$/NDF:16630.2/22

Right Out: -90.127+/-0.543 $\chi^2$/NDF: 789.3/18

Left In: -47.890+/-0.180 $\chi^2$/NDF:13583.7/20

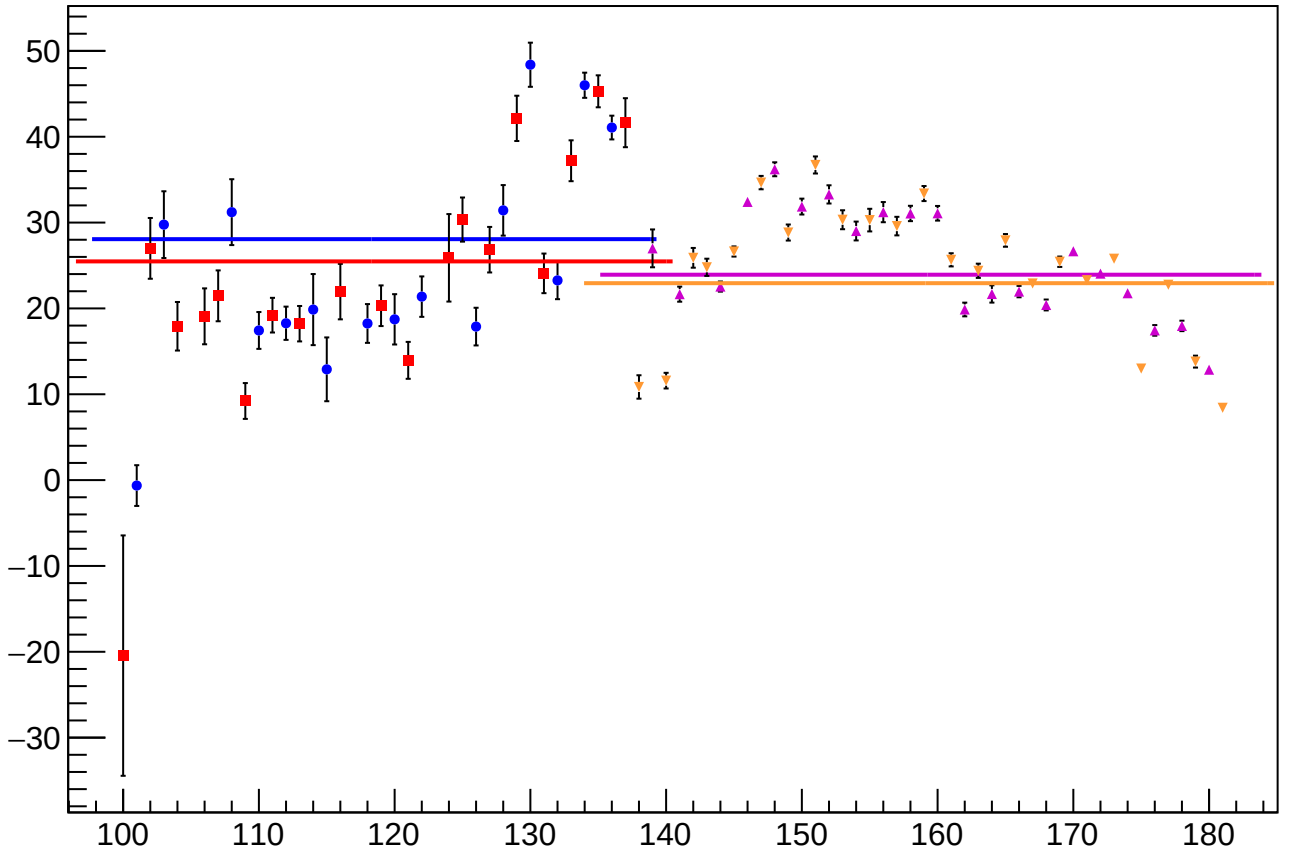
Left: -48.201+/-0.126 $\chi^2$/NDF: 30219.8/43

Right: -92.143+/-0.382 $\chi^2$/NDF: 1283.5/34

In: -52.558+/-0.171 $\chi^2$/NDF:20711.4/36

Out: -52.490+/-0.168 $\chi^2$/NDF:22734.1/41

All: -52.523+/-0.120 $\chi^2$/NDF: 43445.7/78




Right In: 28.068+/-0.569 $\chi^2$/NDF: 583.1/15

Left Out: 22.940+/-0.154 $\chi^2$/NDF:2260.2/22

Right Out: 25.477+/-0.590 $\chi^2$/NDF: 354.6/18

Left In: 23.926+/-0.155 $\chi^2$/NDF:1594.5/20

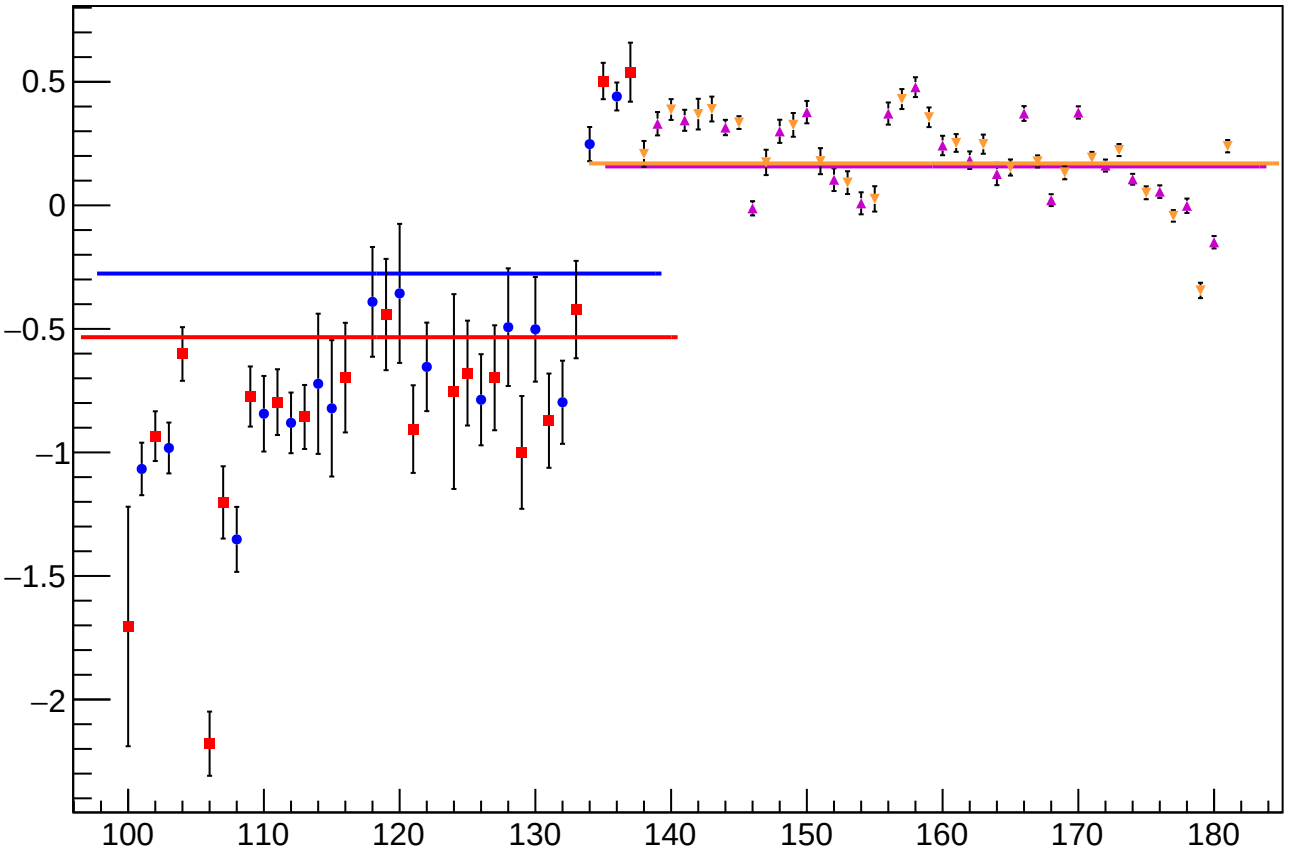
Left: 23.430+/-0.109 $\chi^2$/NDF: 3875.1/43

Right: 26.821+/-0.410 $\chi^2$/NDF: 947.7/34

In: 24.211+/-0.149 $\chi^2$/NDF:2227.0/36

Out: 23.101+/-0.149 $\chi^2$/NDF:2632.2/41

All: 23.654+/-0.105 $\chi^2$/NDF: 4886.9/78




Right In: -0.276+/-0.031 $\chi^2$/NDF: 455.6/15

Left Out: 0.170+/-0.007 $\chi^2$/NDF:582.7/22

Right Out: -0.534+/-0.033 $\chi^2$/NDF: 510.3/18

Left In: 0.158+/-0.007 $\chi^2$/NDF:591.0/20

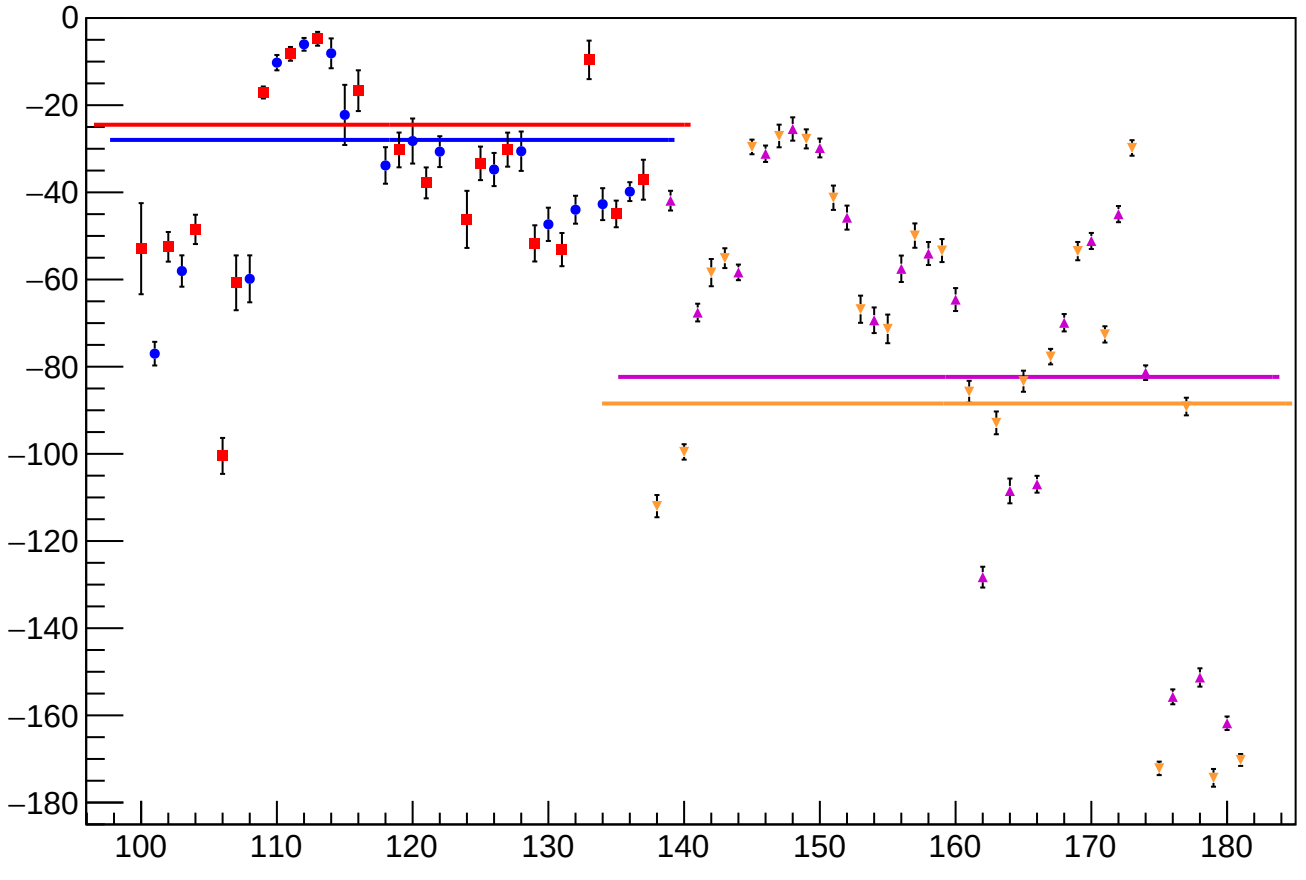
Left: 0.164+/-0.005 $\chi^2$/NDF: 1175.2/43

Right: -0.396+/-0.022 $\chi^2$/NDF: 998.8/34

In: 0.136+/-0.007 $\chi^2$/NDF:1237.1/36

Out: 0.140+/-0.007 $\chi^2$/NDF:1532.1/41

All: 0.138+/-0.005 $\chi^2$/NDF: 2769.4/78




Right In: -27.967+/-0.728 $\chi^2$/NDF: 894.7/15

Left Out: -88.448+/-0.441 $\chi^2$/NDF:13492.5/22

Right Out: -24.485+/-0.663 $\chi^2$/NDF: 989.7/18

Left In: -82.343+/-0.458 $\chi^2$/NDF:9650.1/20

Left: -85.509+/-0.318 $\chi^2$/NDF: 23234.7/43

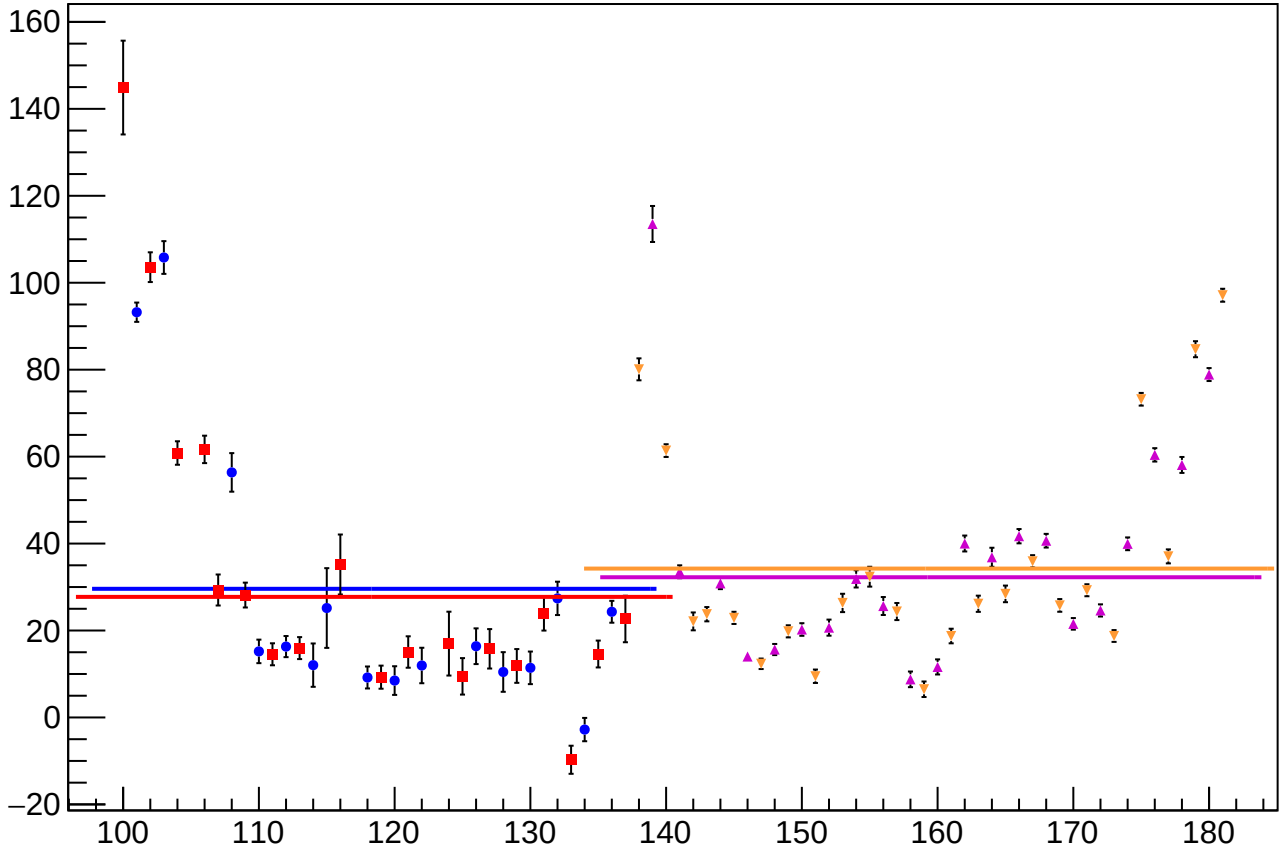
Right: -26.064+/-0.490 $\chi^2$/NDF: 1896.8/34

In: -66.924+/-0.387 $\chi^2$/NDF:14546.2/36

Out: -68.814+/-0.367 $\chi^2$/NDF:20935.3/41

All: -67.919+/-0.267 $\chi^2$/NDF: 35494.0/78

# reg_asym_sam4_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 29.594+/-0.807 $\chi^2$/NDF: 1665.7/15

Left Out: 34.247+/-0.335 $\chi^2$/NDF:5322.1/22

Right Out: 27.736+/-0.797 $\chi^2$/NDF: 1185.1/18

Left In: 32.252+/-0.346 $\chi^2$/NDF:2954.1/20

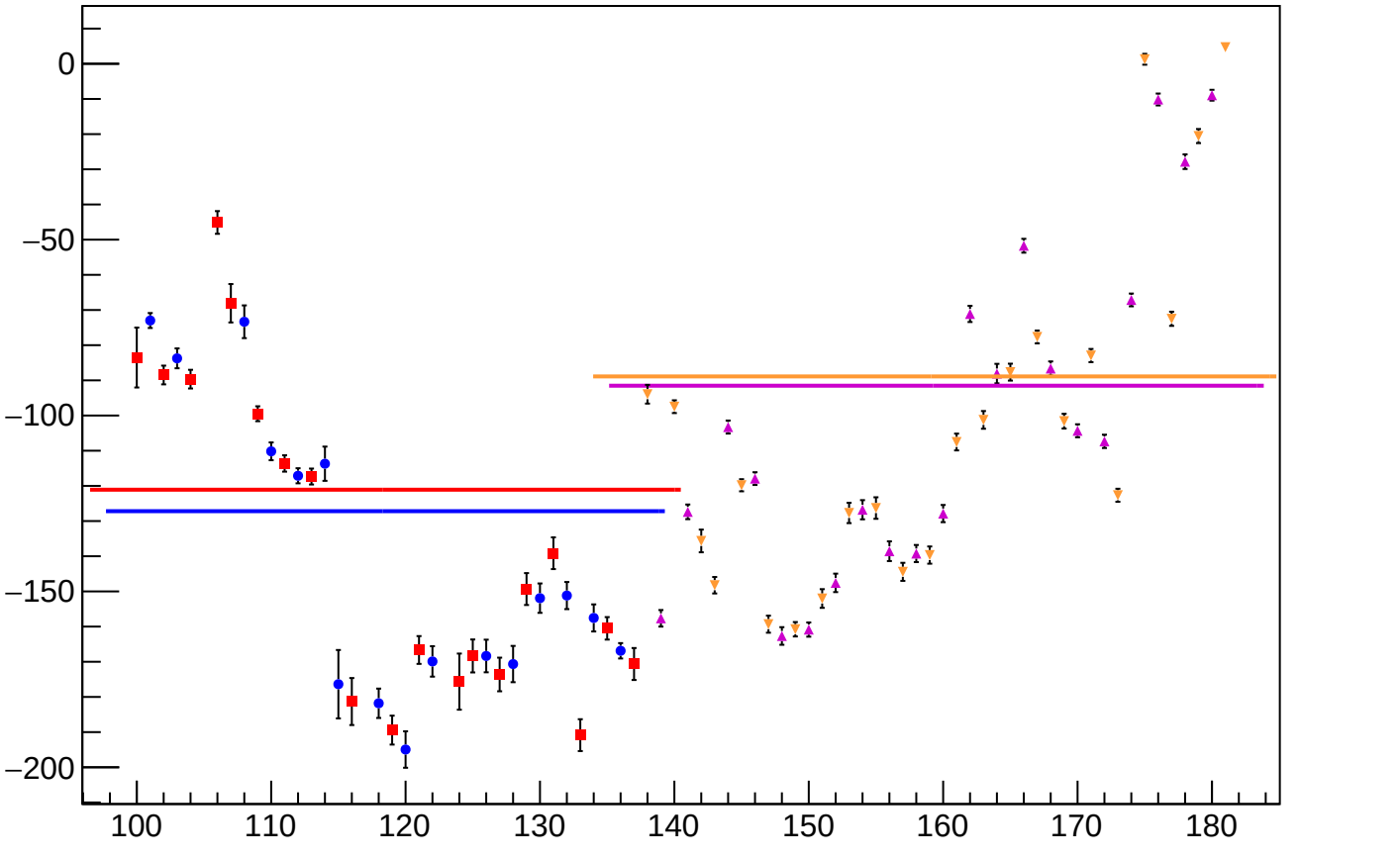
Left: 33.282+/-0.241 $\chi^2$/NDF: 8293.3/43

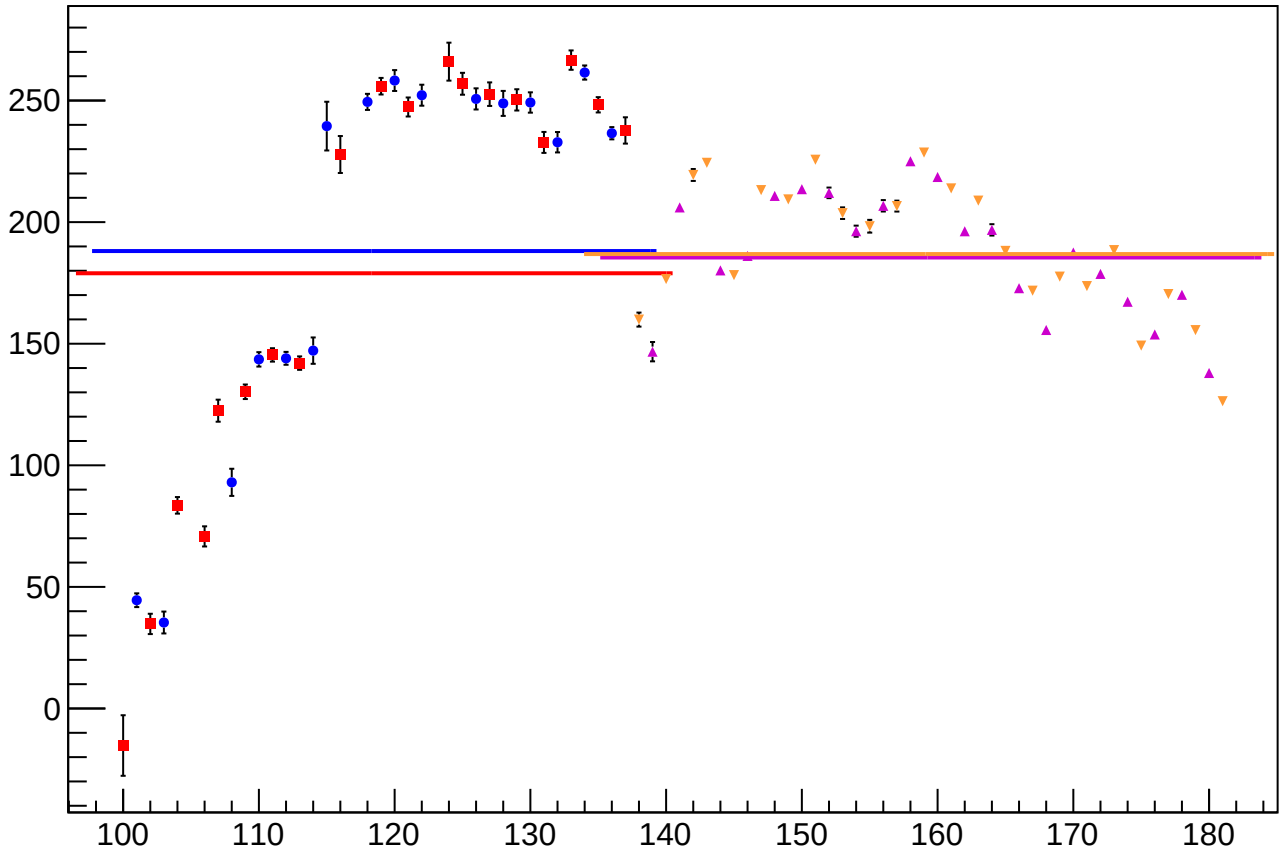
Right: 28.653+/-0.567 $\chi^2$/NDF: 2853.5/34

In: 31.839+/-0.318 $\chi^2$/NDF:4629.0/36

Out: 33.267+/-0.309 $\chi^2$/NDF:6563.8/41

All: 32.574+/-0.222 $\chi^2$/NDF: 11203.2/78


reg_asym_sam4_diff_bpm4eX_slope vs Slug, Sign Corrected
0
−50
−100
−150
−200
100
110
120
130
140
150
160
170
180
Right In: -127.190+/-0.829 χ²/NDF: 2178.2/15
Left Out: -88.882+/-0.439 χ²/NDF:14583.0/22
Right Out: -121.086+/-0.798 χ²/NDF: 2397.3/18
Left In: -91.521+/-0.454 χ²/NDF:11753.7/20
Left: -90.159+/-0.316 χ²/NDF: 26354.2/43
Right: -124.019+/-0.575 χ²/NDF: 4603.6/34
In: -99.738+/-0.398 χ²/NDF:15355.5/36
Out: -96.376+/-0.385 χ²/NDF:18230.9/41
All: -98.000+/-0.277 χ²/NDF: 33623.3/78




Right In: 188.107+/-0.918 $\chi^2$/NDF: 7118.6/15

Left Out: 186.868+/-0.379 $\chi^2$/NDF:5109.6/22

Right Out: 178.971+/-0.908 $\chi^2$/NDF: 6668.8/18

Left In: 185.451+/-0.390 $\chi^2$/NDF:3598.5/20

Left: 186.180+/-0.272 $\chi^2$/NDF: 8714.9/43

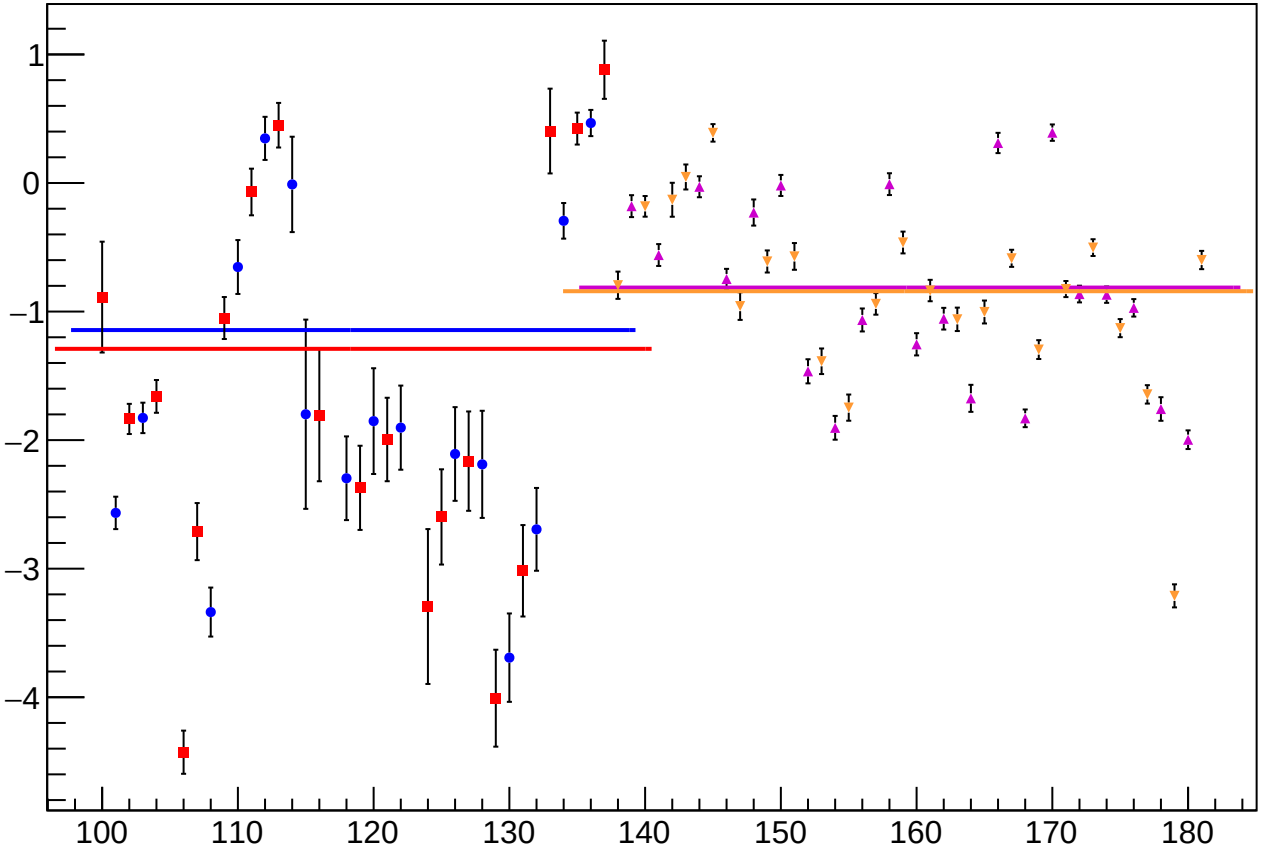
Right: 183.489+/-0.646 $\chi^2$/NDF: 13837.5/34

In: 185.858+/-0.359 $\chi^2$/NDF:10724.3/36

Out: 185.695+/-0.350 $\chi^2$/NDF:11842.8/41

All: 185.774+/-0.251 $\chi^2$/NDF: 22567.1/78

# reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -1.144+/-0.048 $\chi^2$/NDF: 787.4/15

Left Out: -0.842+/-0.017 $\chi^2$/NDF:1592.7/22

Right Out: -1.290+/-0.047 $\chi^2$/NDF: 998.3/18

Left In: -0.813+/-0.017 $\chi^2$/NDF:1828.8/20

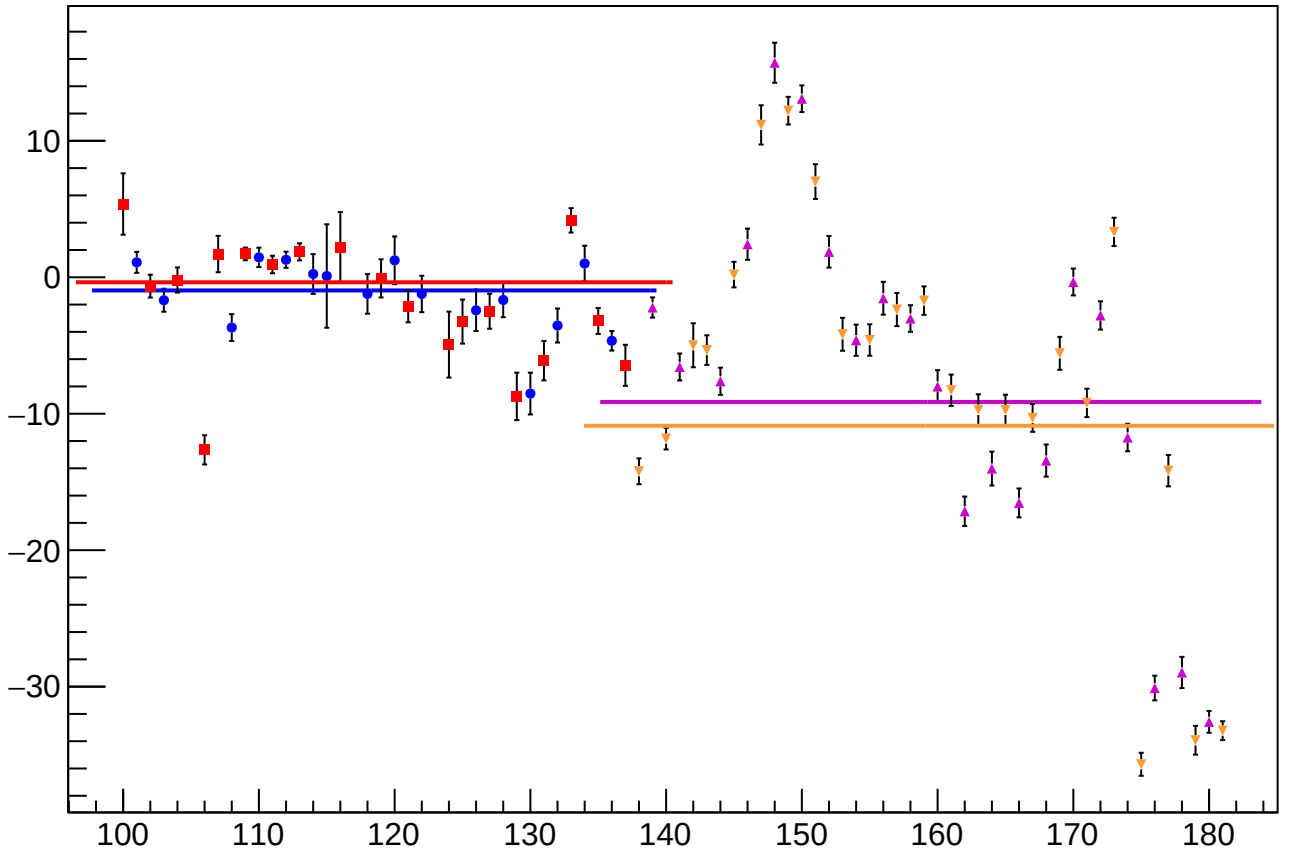
Left: -0.828+/-0.012 $\chi^2$/NDF: 3422.9/43

Right: -1.218+/-0.034 $\chi^2$/NDF: 1790.3/34

In: -0.852+/-0.016 $\chi^2$/NDF:2658.1/36

Out: -0.893+/-0.016 $\chi^2$/NDF:2670.0/41

All: -0.873+/-0.011 $\chi^2$/NDF: 5331.4/78




Right In: -0.964+/-0.253 $\chi^2$/NDF: 103.2/15

Left Out: -10.883+/-0.217 $\chi^2$/NDF:3949.3/22

Right Out: -0.365+/-0.224 $\chi^2$/NDF: 280.6/18

Left In: -9.142+/-0.225 $\chi^2$/NDF:3138.5/20

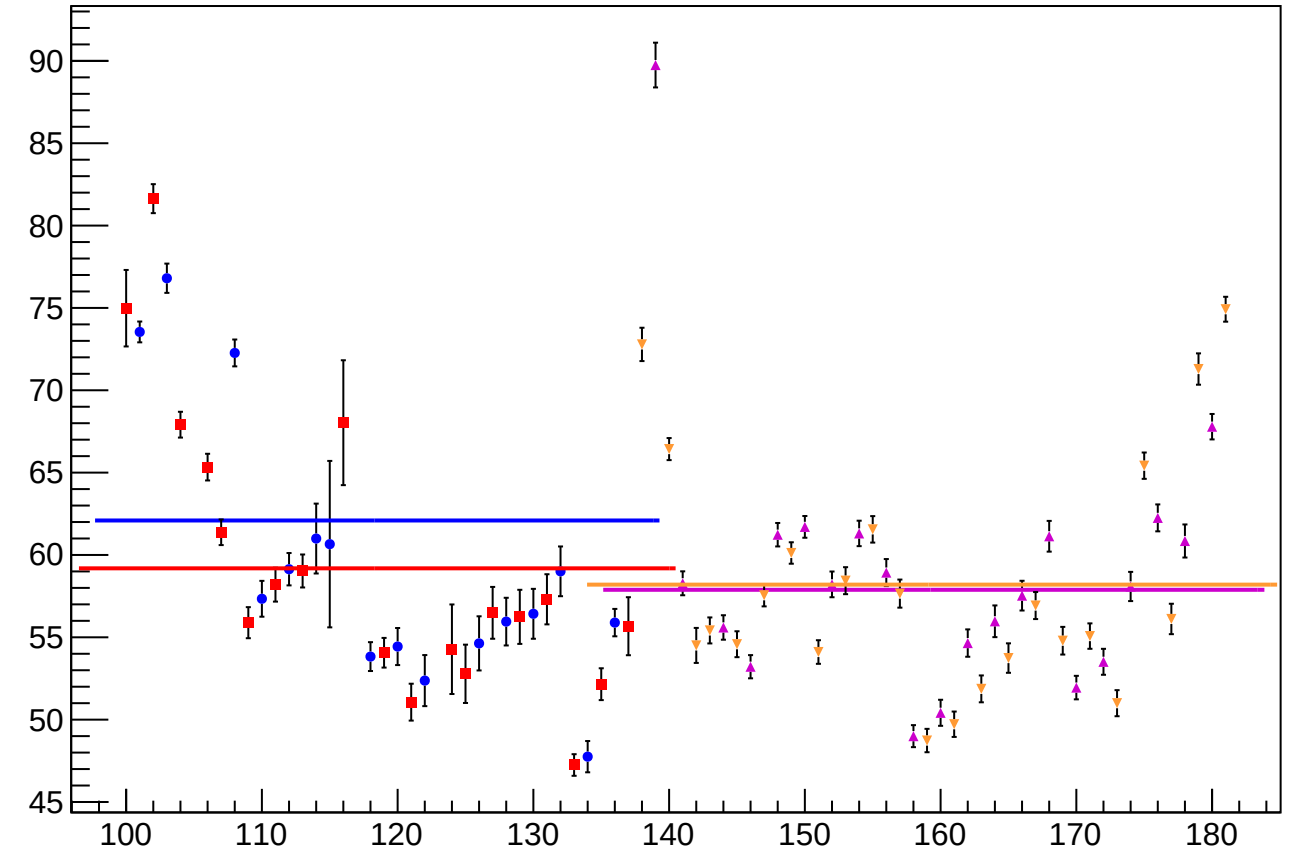
Left: -10.044+/-0.156 $\chi^2$/NDF: 7118.7/43

Right: -0.628+/-0.168 $\chi^2$/NDF: 386.9/34

In: -5.527+/-0.168 $\chi^2$/NDF:3823.7/36

Out: -5.777+/-0.156 $\chi^2$/NDF:5367.1/41

All: -5.661+/-0.114 $\chi^2$/NDF: 9192.0/78




Right In: 62.094+/-0.265 $\chi^2$/NDF: 1301.3/15

Left Out: 58.198+/-0.166 $\chi^2$/NDF:1732.2/22

Right Out: 59.188+/-0.244 $\chi^2$/NDF: 1402.1/18

Left In: 57.885+/-0.174 $\chi^2$/NDF:1279.1/20

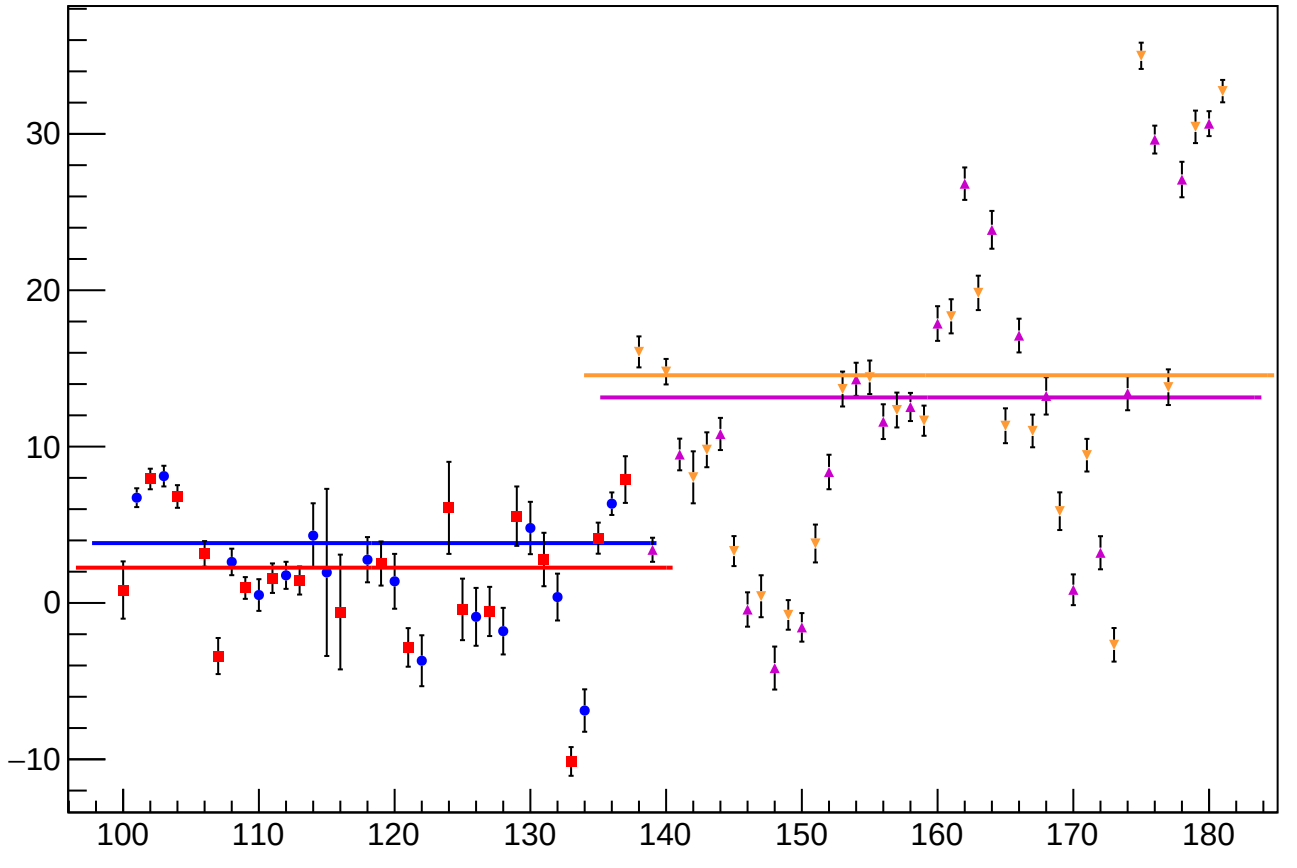
Left: 58.049+/-0.120 $\chi^2$/NDF: 3013.0/43

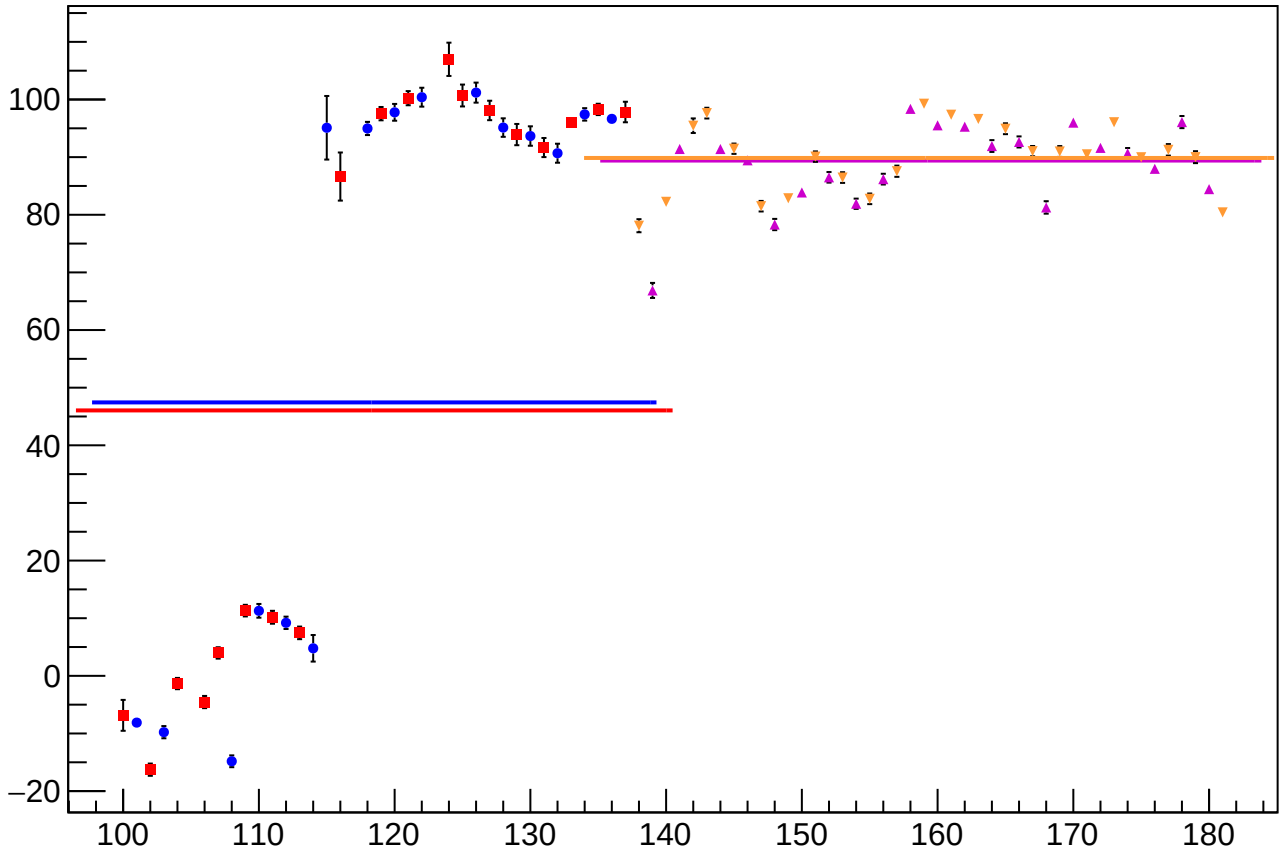
Right: 60.518+/-0.180 $\chi^2$/NDF: 2768.4/34

In: 59.149+/-0.145 $\chi^2$/NDF:2756.4/36

Out: 58.511+/-0.137 $\chi^2$/NDF:3145.6/41

All: 58.811+/-0.100 $\chi^2$/NDF: 5912.1/78


reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected
30
20
10
0
−10
100
110
120
130
140
150
160
170
180
Right In: 3.828+/-0.265 χ²/NDF: 208.6/15
Left Out: 14.562+/-0.215 χ²/NDF:2496.3/22
Right Out: 2.257+/-0.246 χ²/NDF: 371.9/18
Left In: 13.144+/-0.222 χ²/NDF:2274.5/20
Left: 13.875+/-0.155 χ²/NDF: 4791.9/43
Right: 2.985+/-0.181 χ²/NDF: 599.4/34
In: 9.306+/-0.170 χ²/NDF:3208.3/36
Out: 9.238+/-0.162 χ²/NDF:4282.6/41
All: 9.270+/-0.117 χ²/NDF: 7491.1/78




Right In: 47.443+/-0.308 $\chi^2$/NDF: 26886.9/15

Left Out: 89.856+/-0.187 $\chi^2$/NDF:1064.9/22

Right Out: 46.053+/-0.284 $\chi^2$/NDF: 28897.8/18

Left In: 89.407+/-0.194 $\chi^2$/NDF:1078.3/20

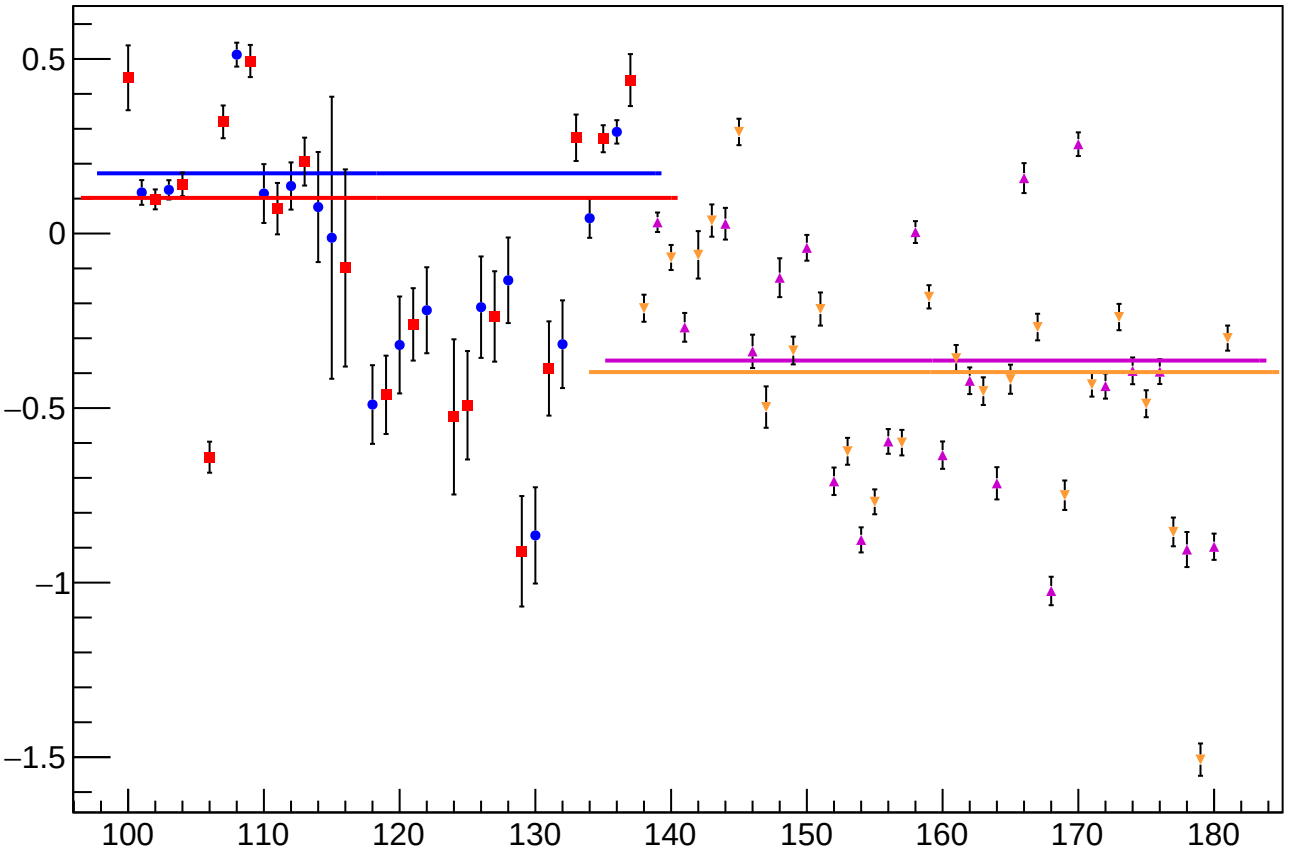
Left: 89.641+/-0.135 $\chi^2$/NDF: 2146.0/43

Right: 46.693+/-0.209 $\chi^2$/NDF: 55795.7/34

In: 77.460+/-0.164 $\chi^2$/NDF:41238.3/36

Out: 76.651+/-0.156 $\chi^2$/NDF:46529.5/41

All: 77.035+/-0.113 $\chi^2$/NDF: 87780.5/78




Right In: 0.172+/-0.014 $\chi^2$/NDF: 265.0/15

Left Out: -0.397+/-0.008 $\chi^2$/NDF:1598.3/22

Right Out: 0.102+/-0.013 $\chi^2$/NDF: 558.7/18

Left In: -0.364+/-0.008 $\chi^2$/NDF:2013.3/20

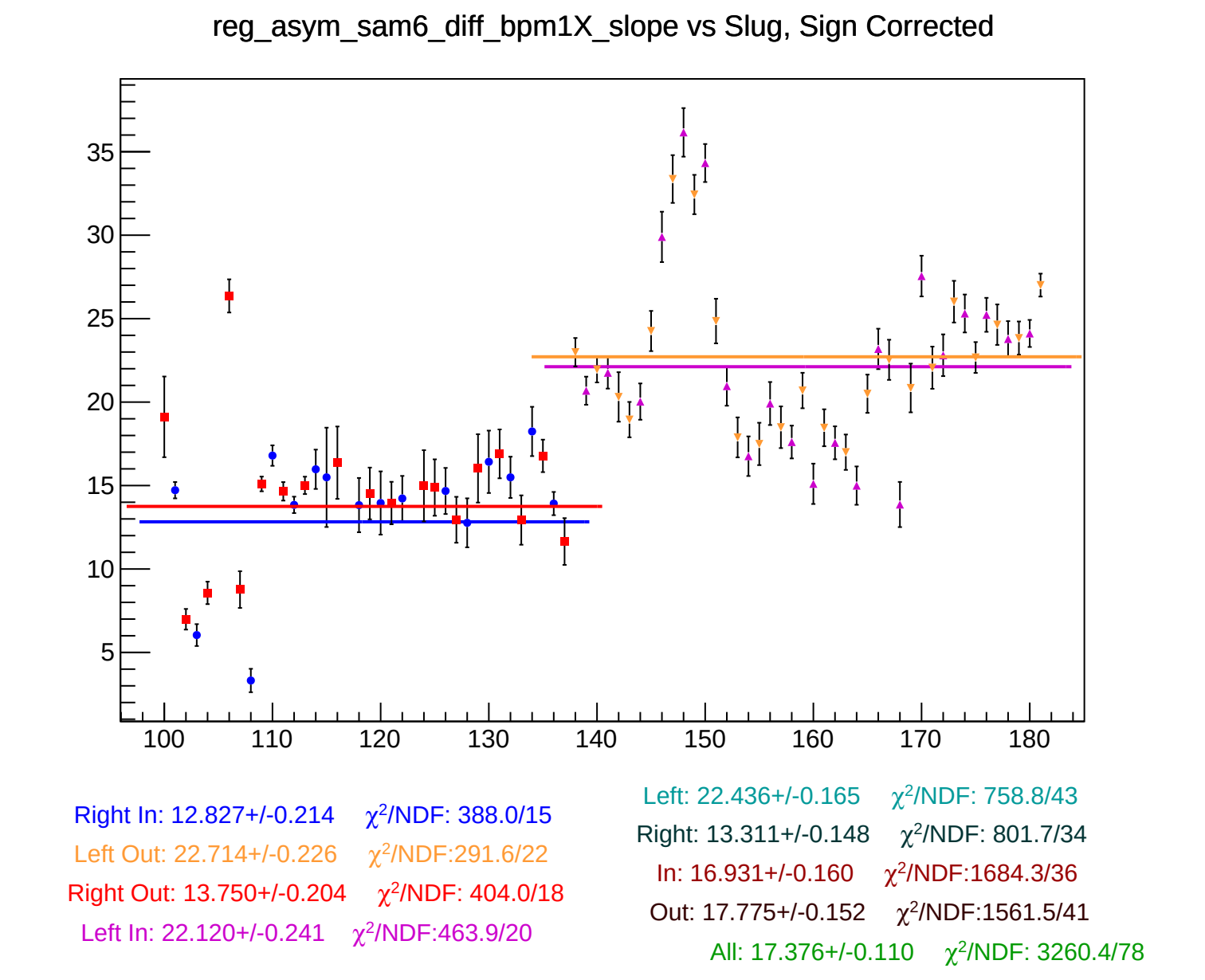
Left: -0.381+/-0.006 $\chi^2$/NDF: 3619.4/43

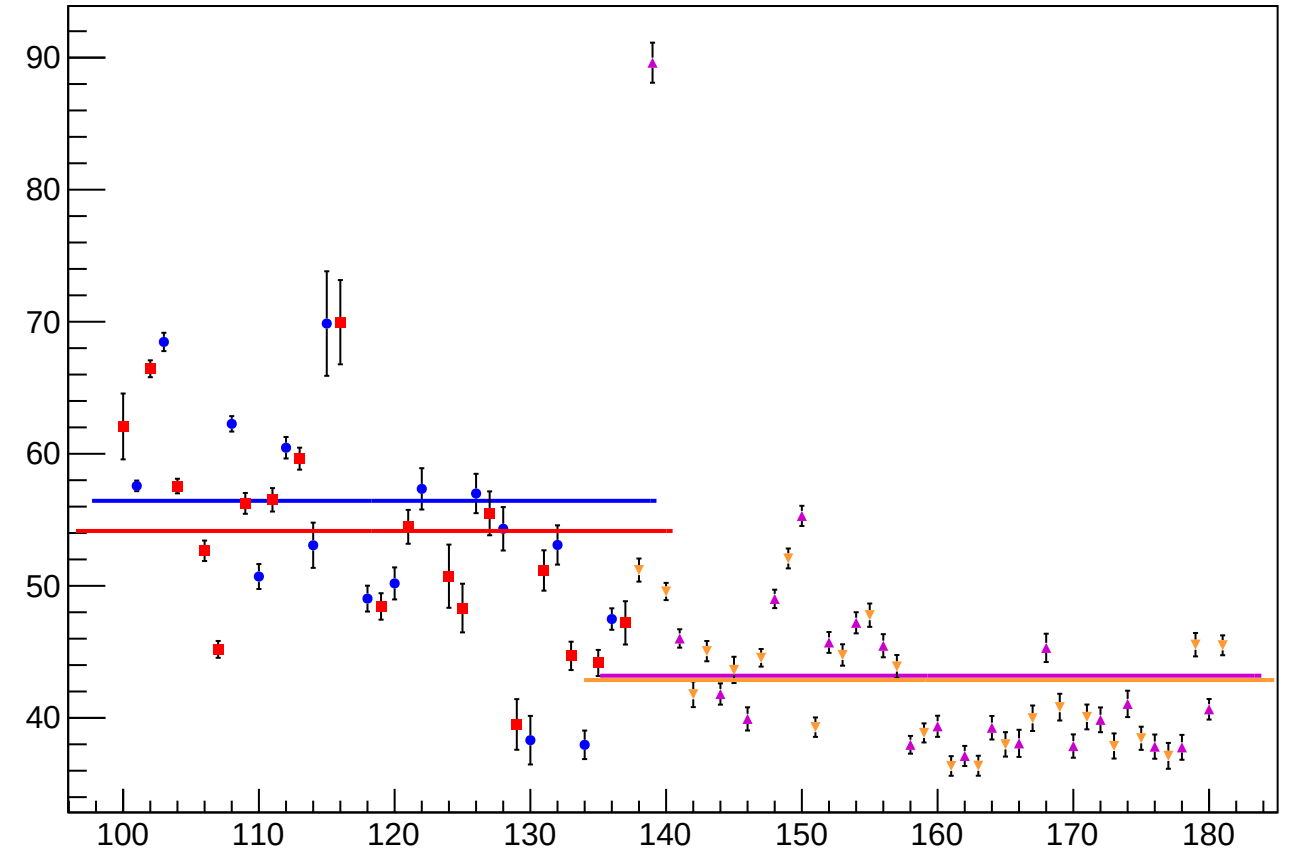
Right: 0.135+/-0.010 $\chi^2$/NDF: 836.7/34

In: -0.225+/-0.007 $\chi^2$/NDF:3341.8/36

Out: -0.259+/-0.007 $\chi^2$/NDF:3152.5/41

All: -0.242+/-0.005 $\chi^2$/NDF: 6505.8/78


reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected
35
30
25
20
15
10
5
100
110
120
130
140
150
160
170
180
Right In: 12.827+/-0.214 χ²/NDF: 388.0/15
Left Out: 22.714+/-0.226 χ²/NDF:291.6/22
Right Out: 13.750+/-0.204 χ²/NDF: 404.0/18
Left In: 22.120+/-0.241 χ²/NDF:463.9/20
Left: 22.436+/-0.165 χ²/NDF: 758.8/43
Right: 13.311+/-0.148 χ²/NDF: 801.7/34
In: 16.931+/-0.160 χ²/NDF:1684.3/36
Out: 17.775+/-0.152 χ²/NDF:1561.5/41
All: 17.376+/-0.110 χ²/NDF: 3260.4/78




Right In: 56.438+/-0.222 $\chi^2$/NDF: 1088.0/15

Left Out: 42.867+/-0.172 $\chi^2$/NDF:763.0/22

Right Out: 54.156+/-0.225 $\chi^2$/NDF: 1006.6/18

Left In: 43.197+/-0.184 $\chi^2$/NDF:1658.4/20

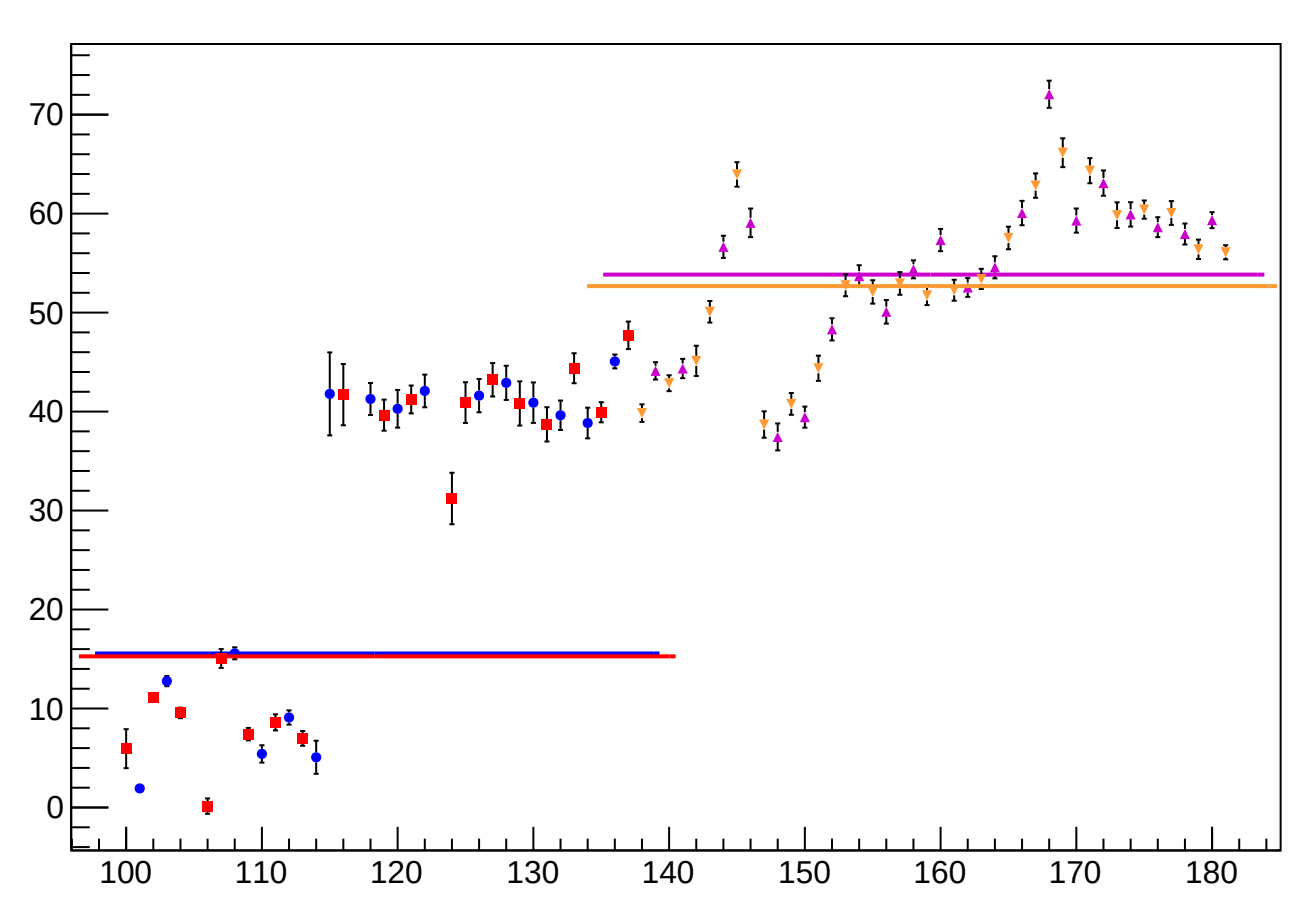
Left: 43.021+/-0.126 $\chi^2$/NDF: 2423.0/43

Right: 55.311+/-0.158 $\chi^2$/NDF: 2146.9/34

In: 48.594+/-0.142 $\chi^2$/NDF:4857.3/36

Out: 47.049+/-0.137 $\chi^2$/NDF:3361.1/41

All: 47.794+/-0.098 $\chi^2$/NDF: 8280.0/78




Right In: 15.561+/-0.214 $\chi^2$/NDF: 5176.0/15

Left Out: 52.675+/-0.224 $\chi^2$/NDF:1174.7/22

Right Out: 15.272+/-0.219 $\chi^2$/NDF: 3873.0/18

Left In: 53.836+/-0.237 $\chi^2$/NDF:995.6/20

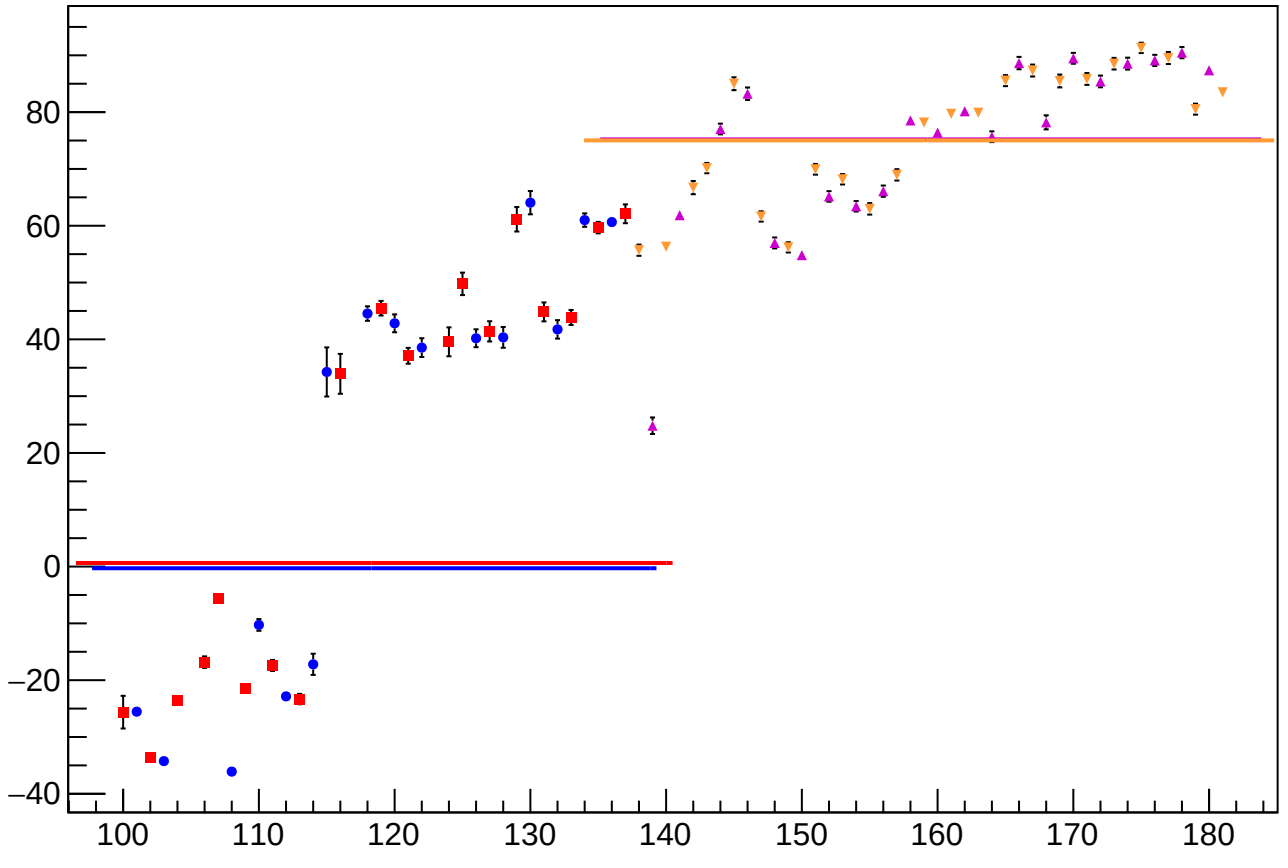
Left: 53.224+/-0.163 $\chi^2$/NDF: 2183.0/43

Right: 15.420+/-0.153 $\chi^2$/NDF: 9050.0/34

In: 32.783+/-0.159 $\chi^2$/NDF:20566.9/36

Out: 33.562+/-0.157 $\chi^2$/NDF:19294.5/41

All: 33.178+/-0.111 $\chi^2$/NDF: 39873.6/78




Right In: -0.296+/-0.261 $\chi^2$/NDF: 21030.9/15

Left Out: 75.025+/-0.195 $\chi^2$/NDF:3383.7/22

Right Out: 0.633+/-0.264 $\chi^2$/NDF: 16028.1/18

Left In: 75.209+/-0.206 $\chi^2$/NDF:4130.1/20

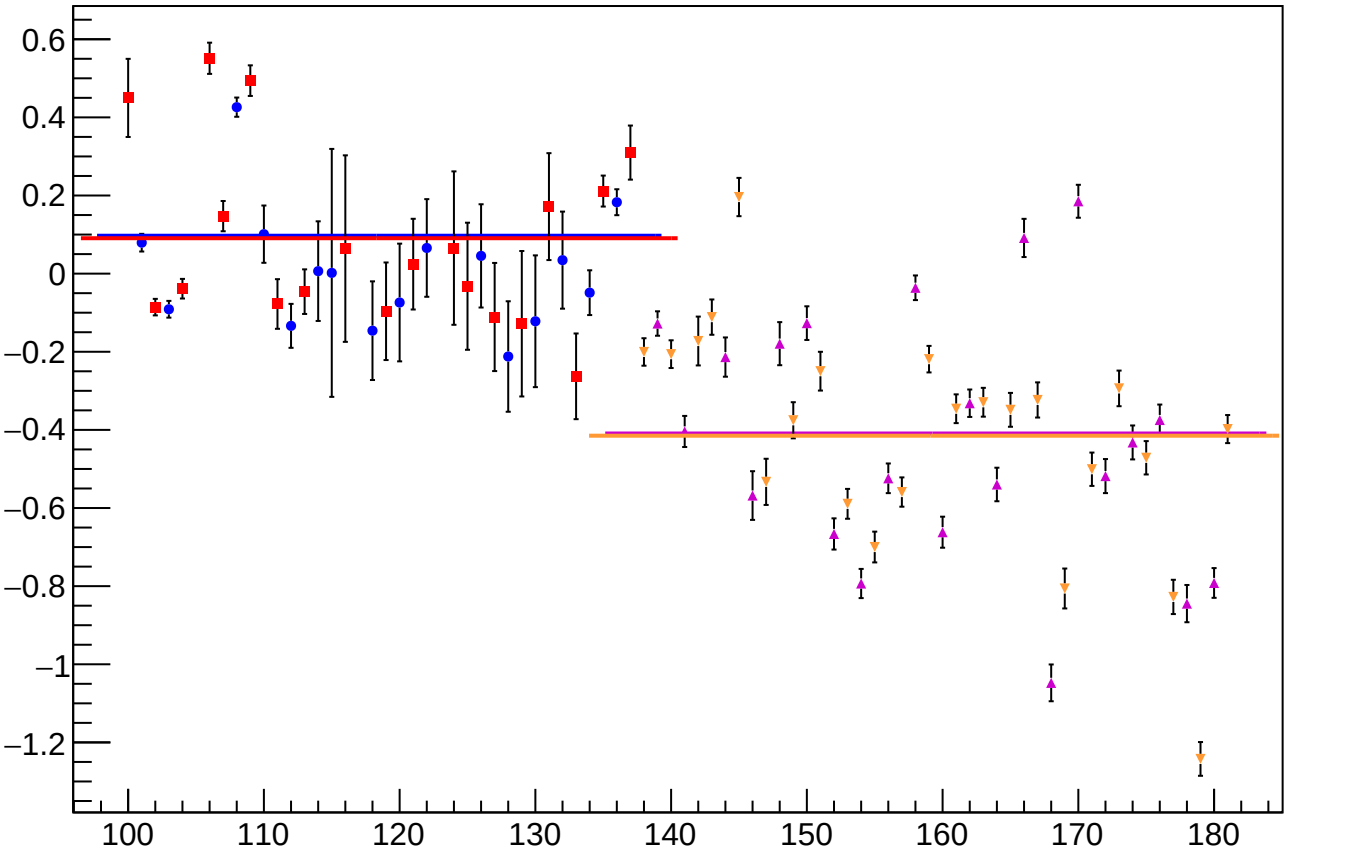
Left: 75.112+/-0.141 $\chi^2$/NDF: 7514.2/43

Right: 0.165+/-0.186 $\chi^2$/NDF: 37065.2/34

In: 46.308+/-0.162 $\chi^2$/NDF:76658.7/36

Out: 48.762+/-0.157 $\chi^2$/NDF:70936.8/41

All: 47.574+/-0.113 $\chi^2$/NDF: 147714.3/78




Right In: 0.097+/-0.011 $\chi^2$/NDF: 299.1/15

Left Out: -0.415+/-0.009 $\chi^2$/NDF:966.9/22

Right Out: 0.091+/-0.011 $\chi^2$/NDF: 399.5/18

Left In: -0.409+/-0.009 $\chi^2$/NDF:1192.9/20

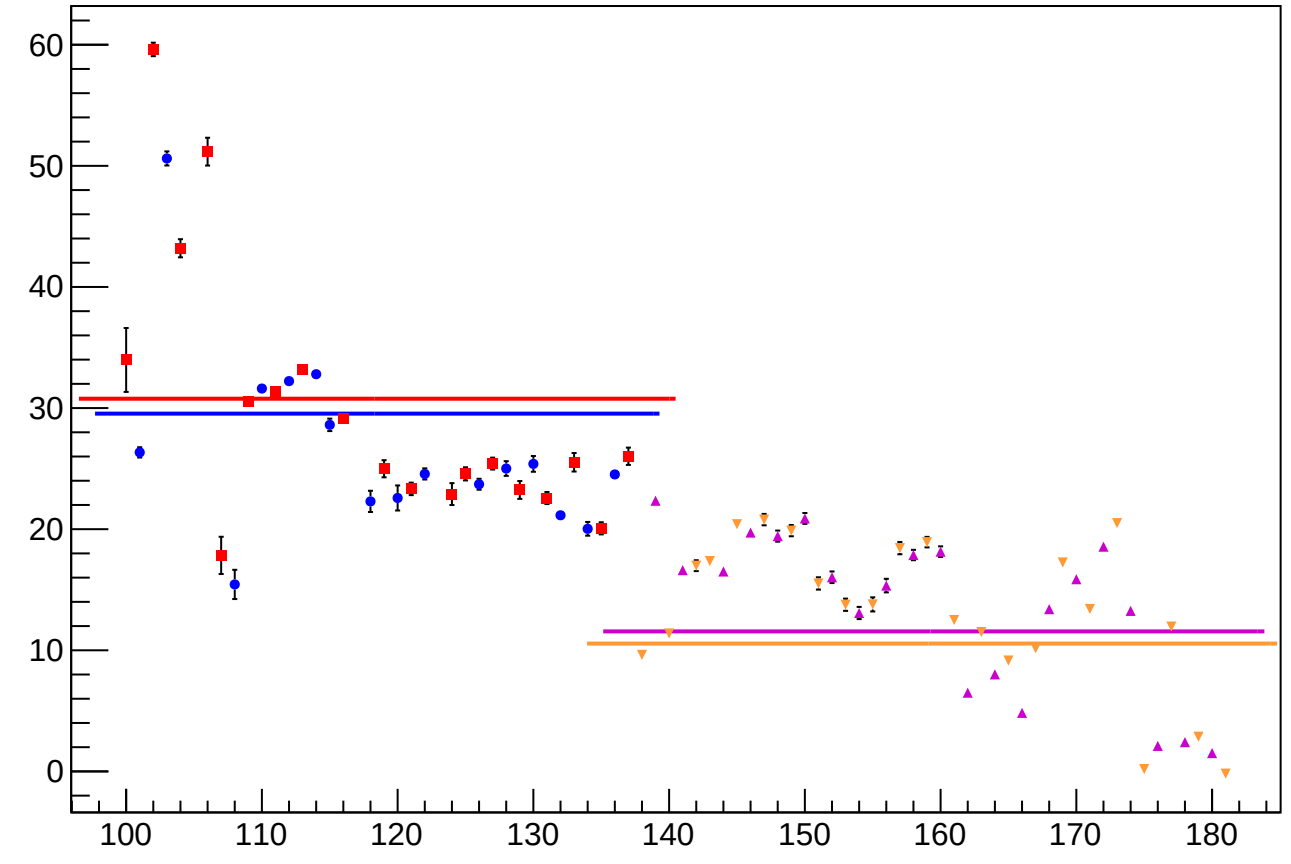
Left: -0.412+/-0.006 $\chi^2$/NDF: 2159.9/43

Right: 0.094+/-0.008 $\chi^2$/NDF: 698.7/34

In: -0.212+/-0.007 $\chi^2$/NDF:2735.4/36

Out: -0.228+/-0.007 $\chi^2$/NDF:2606.5/41

All: -0.220+/-0.005 $\chi^2$/NDF: 5344.5/78




Right In: 29.542+/-0.092 $\chi^2$/NDF: 3372.2/15

Left Out: 10.556+/-0.068 $\chi^2$/NDF:11618.7/22

Right Out: 30.774+/-0.080 $\chi^2$/NDF: 5079.2/18

Left In: 11.561+/-0.072 $\chi^2$/NDF:9599.8/20

Left: 11.031+/-0.049 $\chi^2$/NDF: 21321.4/43

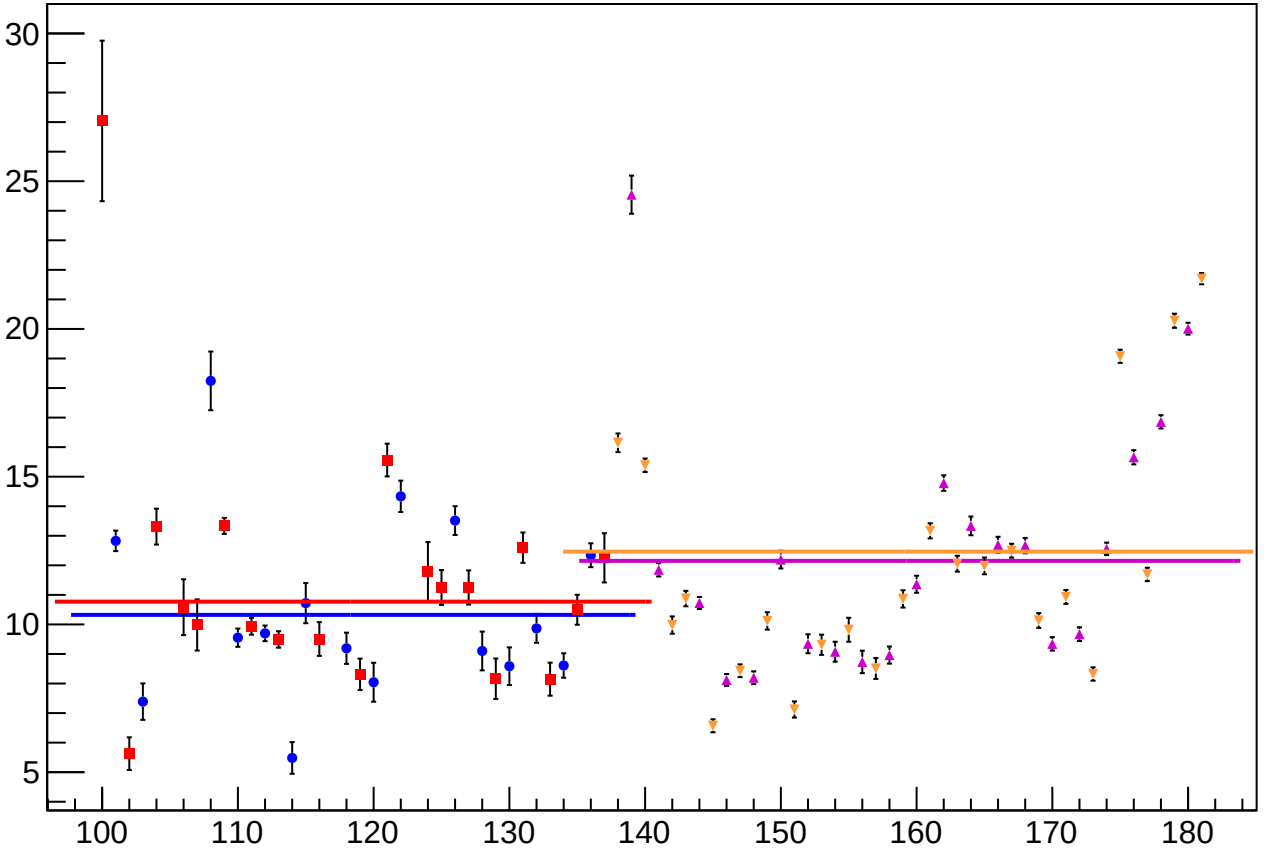
Right: 30.242+/-0.060 $\chi^2$/NDF: 8553.4/34

In: 18.388+/-0.057 $\chi^2$/NDF:36690.4/36

Out: 19.039+/-0.052 $\chi^2$/NDF:53627.7/41

All: 18.742+/-0.038 $\chi^2$/NDF: 90390.0/78

reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 10.324+/-0.114 $\chi^2$/NDF: 402.6/15

Left Out: 12.464+/-0.053 $\chi^2$/NDF:6947.5/22

Right Out: 10.771+/-0.113 $\chi^2$/NDF: 415.8/18

Left In: 12.151+/-0.055 $\chi^2$/NDF:4092.3/20

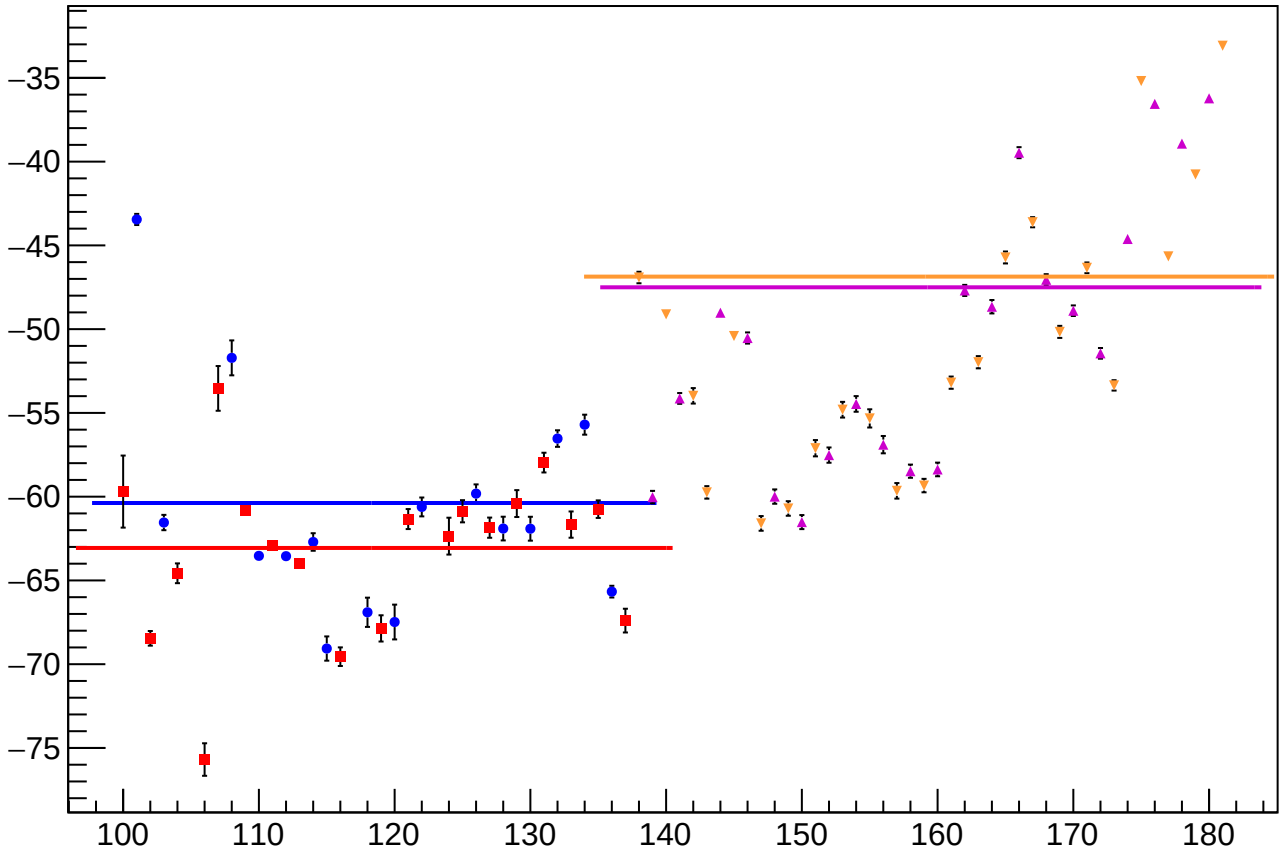
Left: 12.314+/-0.038 $\chi^2$/NDF: 11056.4/43

Right: 10.550+/-0.080 $\chi^2$/NDF: 826.2/34

In: 11.803+/-0.050 $\chi^2$/NDF:4703.1/36

Out: 12.156+/-0.048 $\chi^2$/NDF:7547.3/41

All: 11.986+/-0.035 $\chi^2$/NDF: 12276.4/78




Right In: -60.377+/-0.113 $\chi^2$/NDF: 3597.6/15

Left Out: -46.864+/-0.068 $\chi^2$/NDF:16305.0/22

Right Out: -63.061+/-0.107 $\chi^2$/NDF: 844.1/18

Left In: -47.502+/-0.072 $\chi^2$/NDF:12760.2/20

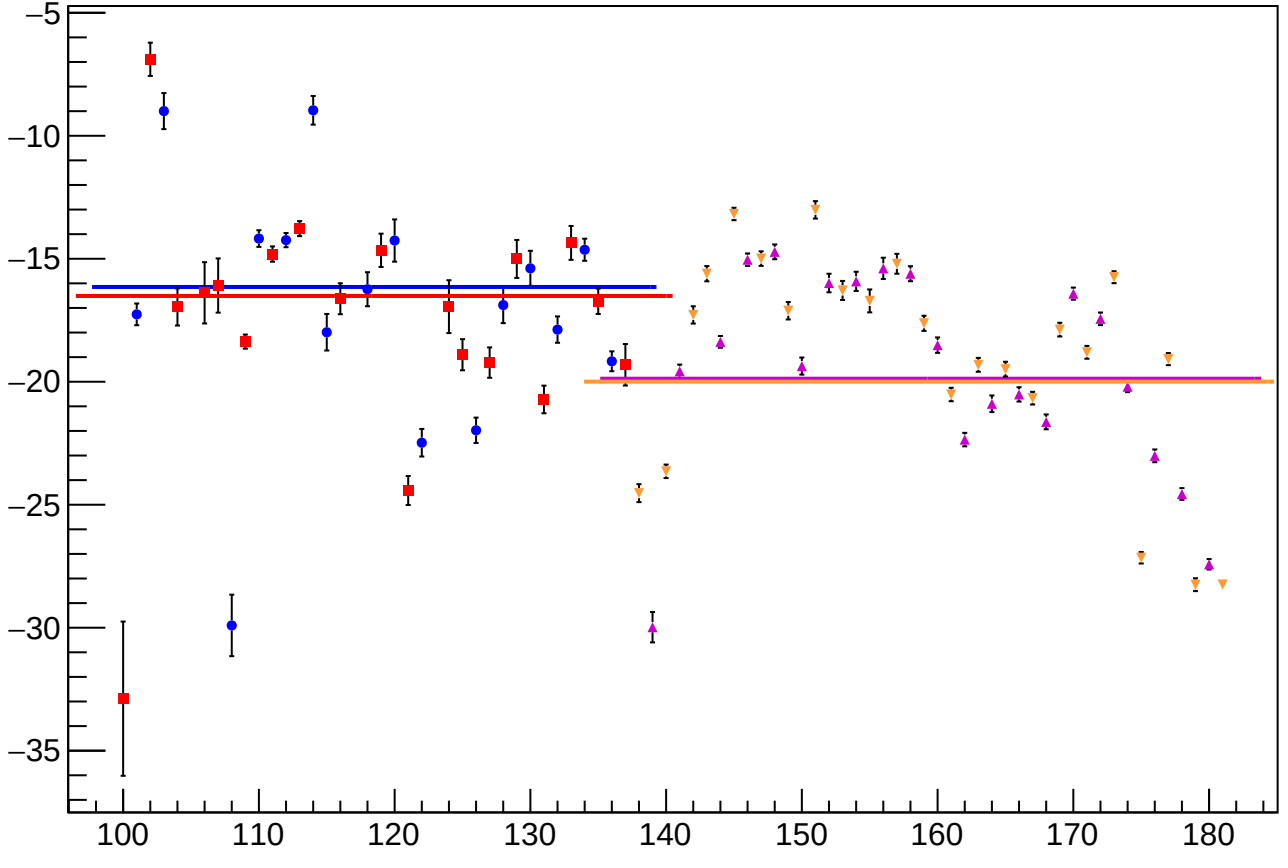
Left: -47.168+/-0.049 $\chi^2$/NDF: 29106.8/43

Right: -61.789+/-0.078 $\chi^2$/NDF: 4738.4/34

In: -51.188+/-0.060 $\chi^2$/NDF:25622.8/36

Out: -51.530+/-0.058 $\chi^2$/NDF:33385.8/41

All: -51.367+/-0.042 $\chi^2$/NDF: 59025.4/78




Right In: -16.147+/-0.127 $\chi^2$/NDF: 797.1/15

Left Out: -19.996+/-0.060 $\chi^2$/NDF:6384.6/22

Right Out: -16.512+/-0.125 $\chi^2$/NDF: 684.7/18

Left In: -19.876+/-0.062 $\chi^2$/NDF:3709.1/20

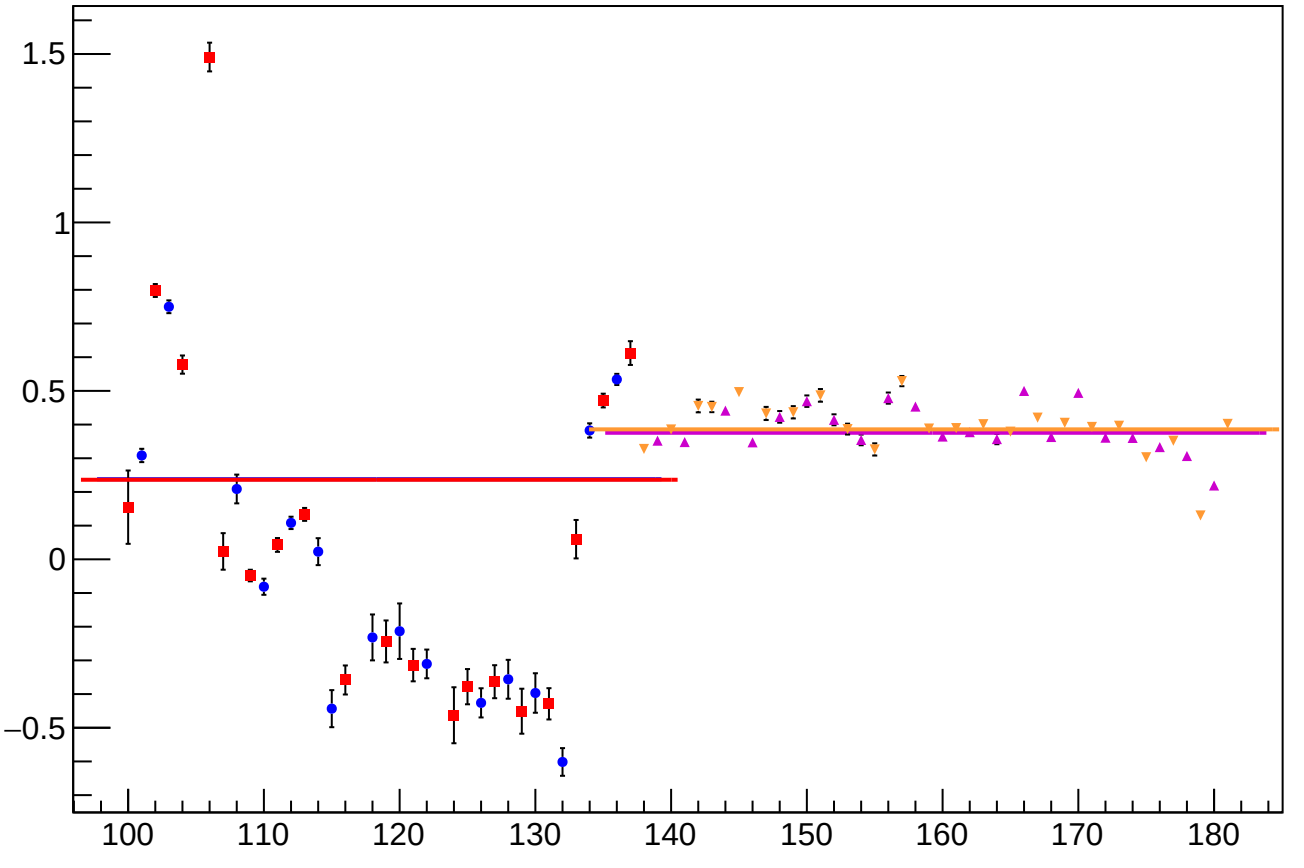
Left: -19.939+/-0.043 $\chi^2$/NDF: 10095.7/43

Right: -16.333+/-0.089 $\chi^2$/NDF: 1486.0/34

In: -19.160+/-0.056 $\chi^2$/NDF:5200.9/36

Out: -19.345+/-0.054 $\chi^2$/NDF:7704.7/41

All: -19.255+/-0.039 $\chi^2$/NDF: 12911.4/78




Right In: 0.238+/-0.007 $\chi^2$/NDF: 2632.9/15

Left Out: 0.386+/-0.003 $\chi^2$/NDF:856.3/22

Right Out: 0.236+/-0.007 $\chi^2$/NDF: 3595.0/18

Left In: 0.376+/-0.003 $\chi^2$/NDF:675.3/20

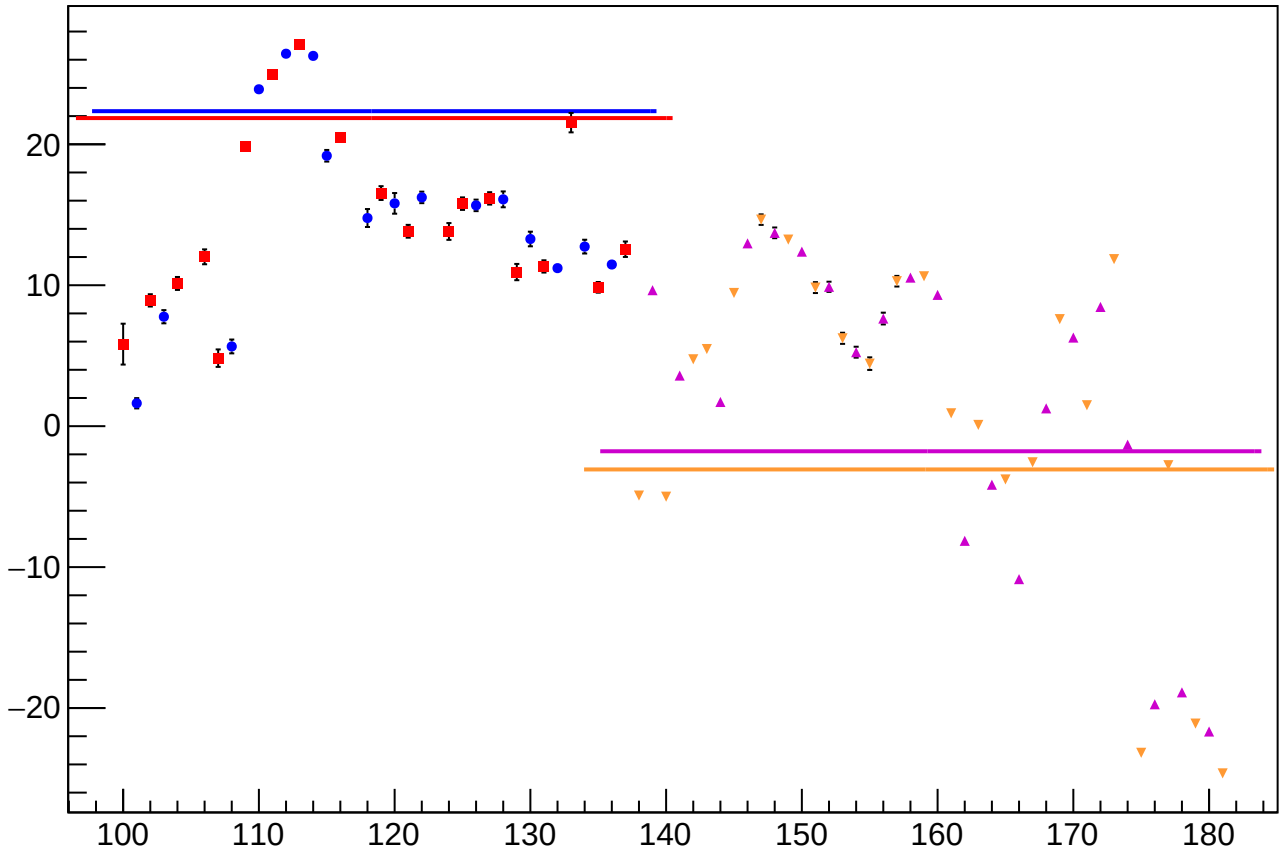
Left: 0.381+/-0.002 $\chi^2$/NDF: 1538.5/43

Right: 0.237+/-0.005 $\chi^2$/NDF: 6227.9/34

In: 0.357+/-0.003 $\chi^2$/NDF:3638.5/36

Out: 0.367+/-0.003 $\chi^2$/NDF:4840.1/41

All: 0.362+/-0.002 $\chi^2$/NDF: 8485.7/78




Right In: 22.350+/-0.057 $\chi^2$/NDF: 12336.9/15

Left Out: -3.070+/-0.057 $\chi^2$/NDF:49541.7/22

Right Out: 21.859+/-0.046 $\chi^2$/NDF: 10692.4/18

Left In: -1.780+/-0.061 $\chi^2$/NDF:37192.2/20

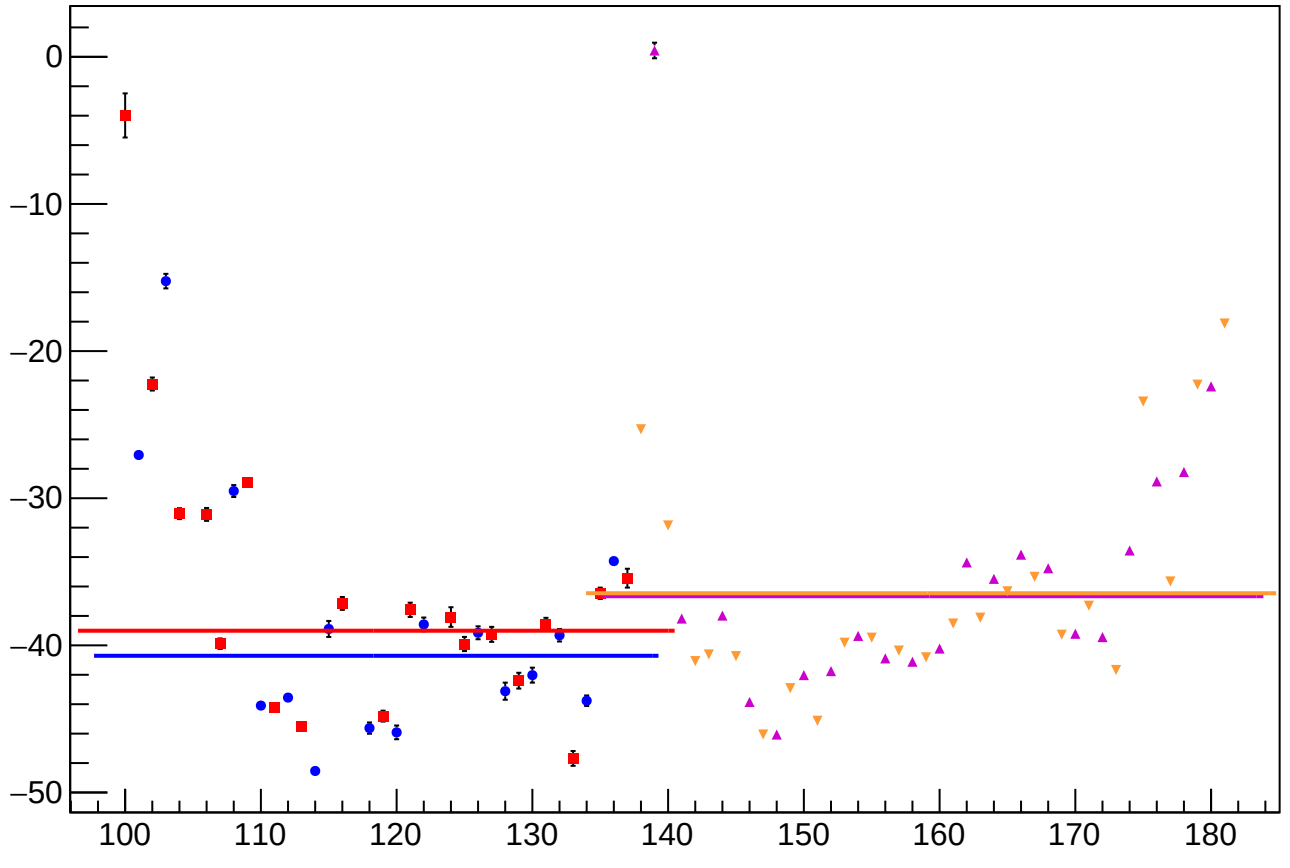
Left: -2.464+/-0.042 $\chi^2$/NDF: 86972.6/43

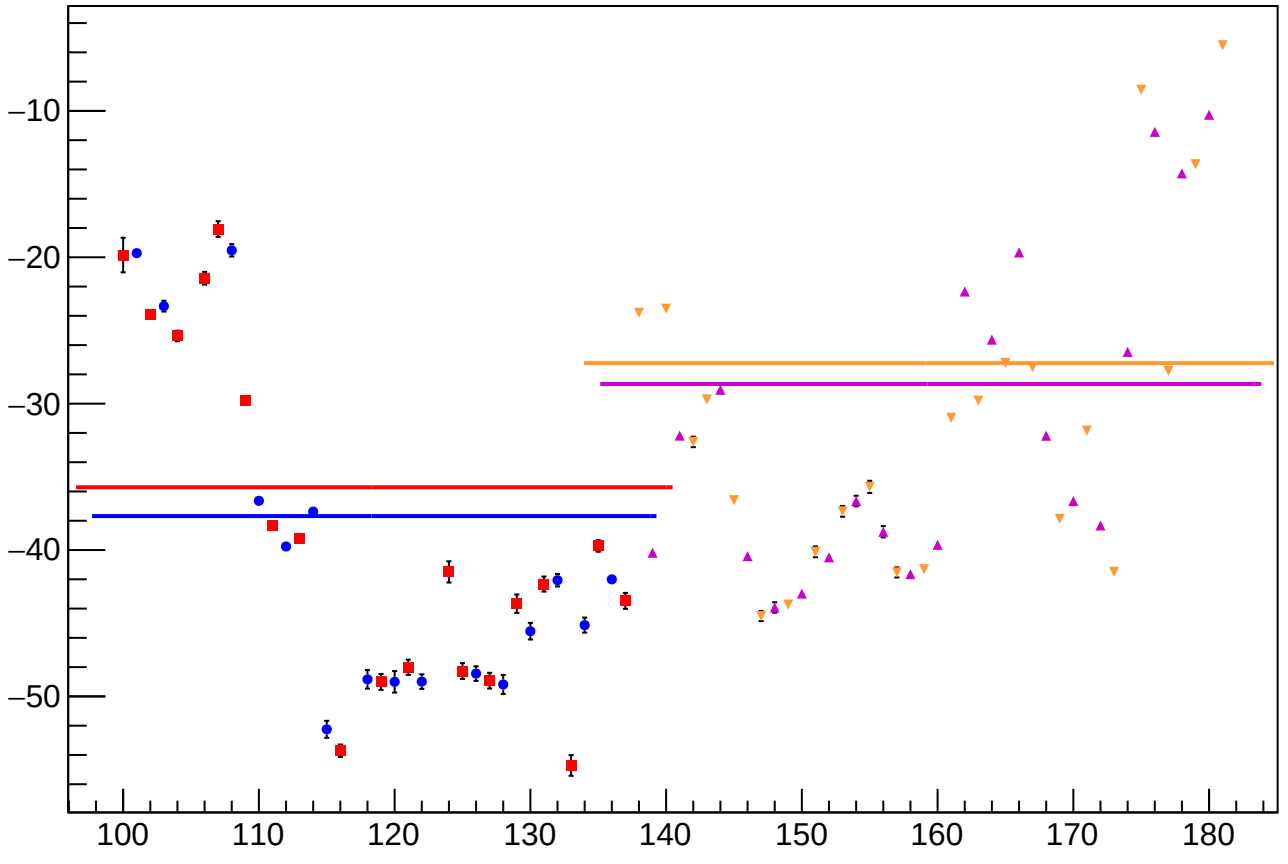
Right: 22.056+/-0.036 $\chi^2$/NDF: 23074.3/34

In: 11.147+/-0.041 $\chi^2$/NDF:134051.3/36

Out: 12.000+/-0.036 $\chi^2$/NDF:174945.4/41

All: 11.633+/-0.027 $\chi^2$/NDF: 309238.7/78


reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected
0
−10
−20
−30
−40
−50
100
110
120
130
140
150
160
170
180
Right In: -40.709+/-0.076 χ²/NDF: 7780.4/15
Left Out: -36.459+/-0.044 χ²/NDF:29772.4/22
Right Out: -39.005+/-0.071 χ²/NDF: 10101.3/18
Left In: -36.662+/-0.046 χ²/NDF:20890.7/20
Left: -36.554+/-0.032 χ²/NDF: 50673.2/43
Right: -39.794+/-0.052 χ²/NDF: 18148.1/34
In: -37.751+/-0.040 χ²/NDF:30717.0/36
Out: -37.159+/-0.037 χ²/NDF:40805.0/41
All: -37.437+/-0.027 χ²/NDF: 71640.3/78




Right In: -37.681+/-0.074 $\chi^2$/NDF: 10853.9/15

Left Out: -27.233+/-0.057 $\chi^2$/NDF:43900.0/22

Right Out: -35.714+/-0.064 $\chi^2$/NDF: 13274.5/18

Left In: -28.653+/-0.060 $\chi^2$/NDF:34191.1/20

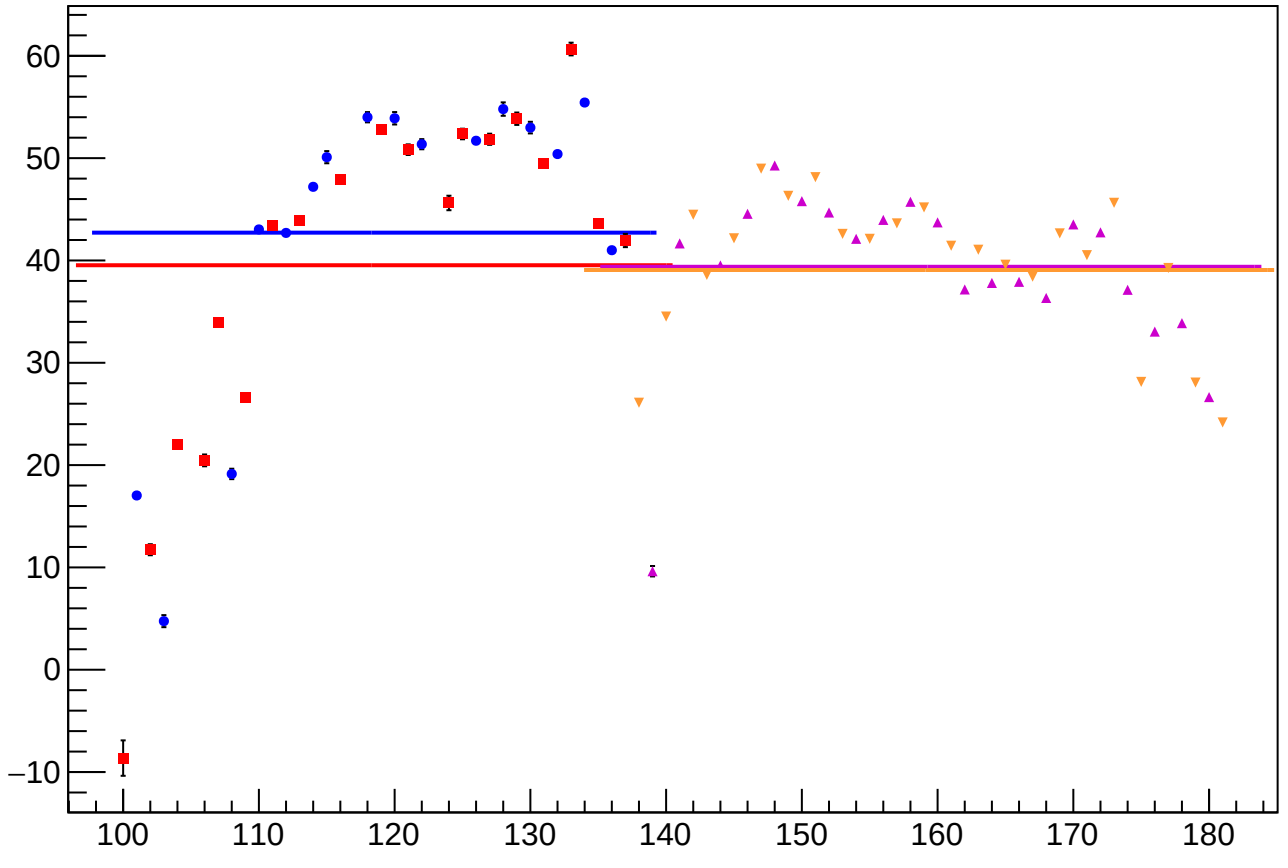
Left: -27.905+/-0.041 $\chi^2$/NDF: 78383.5/43

Right: -36.564+/-0.048 $\chi^2$/NDF: 24532.6/34

In: -32.269+/-0.047 $\chi^2$/NDF:54028.1/36

Out: -30.971+/-0.043 $\chi^2$/NDF:66896.7/41

All: -31.562+/-0.032 $\chi^2$/NDF: 121346.5/78




Right In: 42.718+/-0.085 $\chi^2$/NDF: 14765.0/15

Left Out: 39.068+/-0.049 $\chi^2$/NDF:19623.2/22

Right Out: 39.533+/-0.078 $\chi^2$/NDF: 17978.2/18

Left In: 39.382+/-0.052 $\chi^2$/NDF:14359.0/20

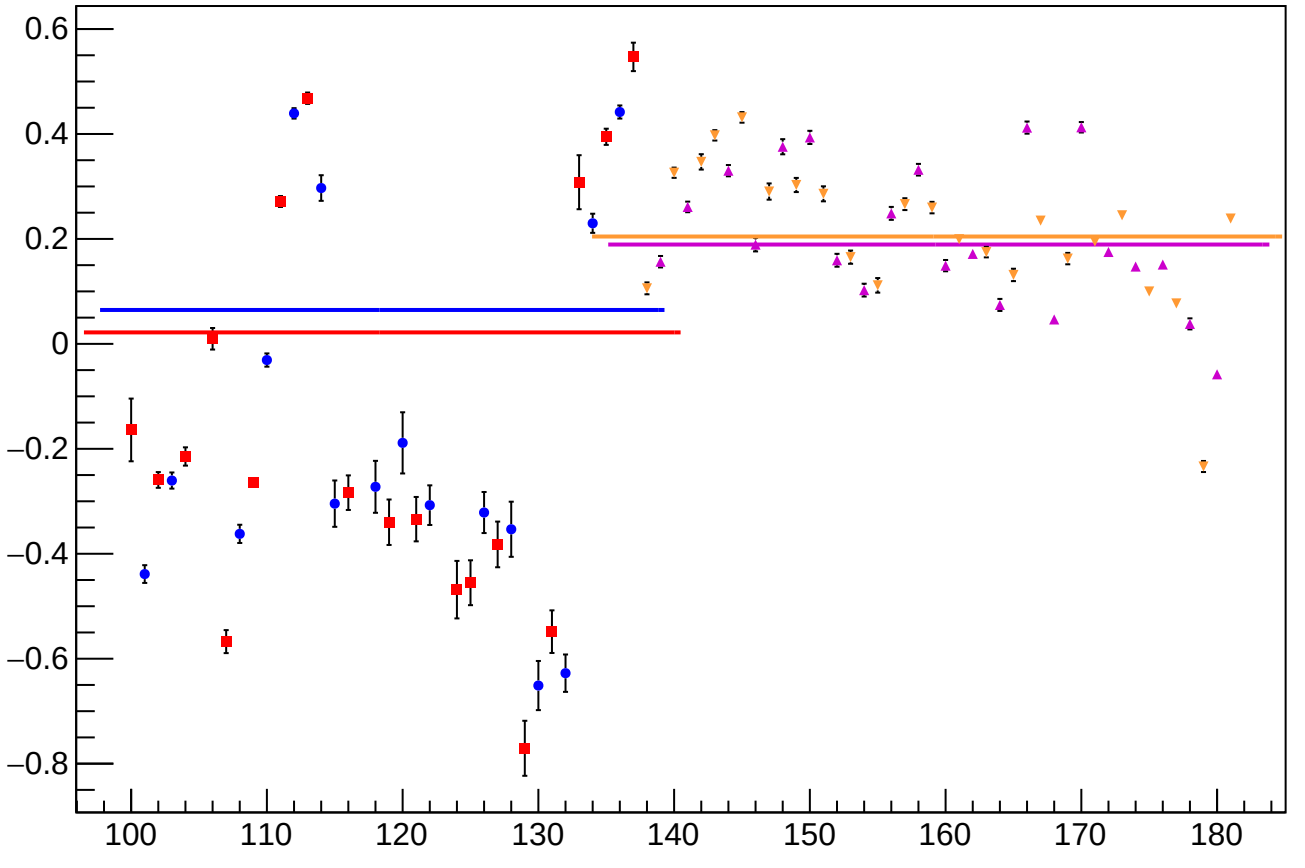
Left: 39.217+/-0.036 $\chi^2$/NDF: 34001.4/43

Right: 40.991+/-0.058 $\chi^2$/NDF: 33503.2/34

In: 40.291+/-0.044 $\chi^2$/NDF:30243.1/36

Out: 39.201+/-0.042 $\chi^2$/NDF:37626.7/41

All: 39.713+/-0.030 $\chi^2$/NDF: 68189.5/78




Right In: 0.065+/-0.005 $\chi^2$/NDF: 5497.5/15

Left Out: 0.205+/-0.002 $\chi^2$/NDF:3590.2/22

Right Out: 0.022+/-0.004 $\chi^2$/NDF: 6405.3/18

Left In: 0.189+/-0.002 $\chi^2$/NDF:3095.3/20

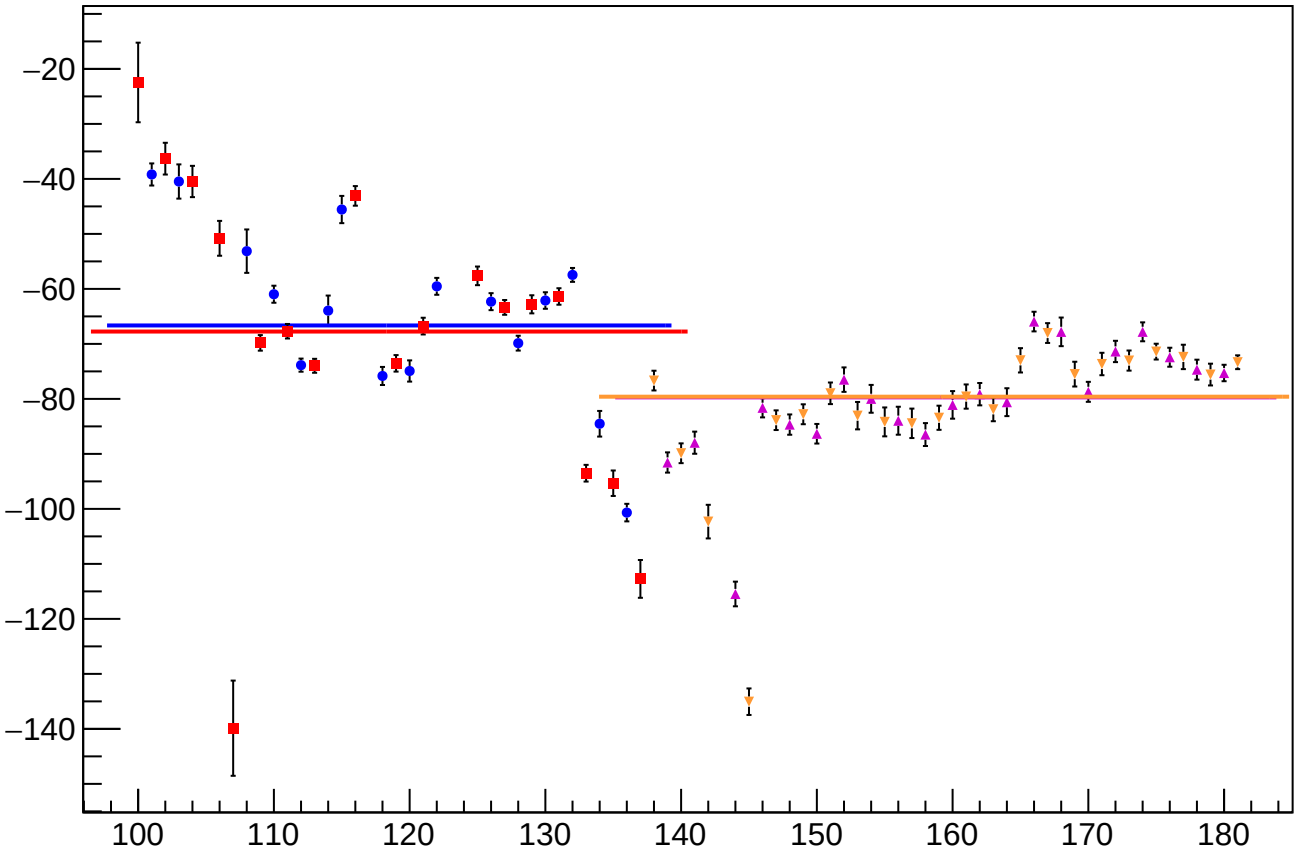
Left: 0.197+/-0.002 $\chi^2$/NDF: 6708.1/43

Right: 0.041+/-0.003 $\chi^2$/NDF: 11945.6/34

In: 0.166+/-0.002 $\chi^2$/NDF:9132.9/36

Out: 0.167+/-0.002 $\chi^2$/NDF:11372.9/41

All: 0.167+/-0.001 $\chi^2$/NDF: 20505.9/78




Right In: -66.648+/-0.426 $\chi^2$/NDF: 1052.4/15

Left Out: -79.600+/-0.420 $\chi^2$/NDF:788.2/21

Right Out: -67.755+/-0.419 $\chi^2$/NDF: 1255.4/17

Left In: -79.725+/-0.429 $\chi^2$/NDF:532.1/20

Left: -79.661+/-0.300 $\chi^2$/NDF: 1320.3/42

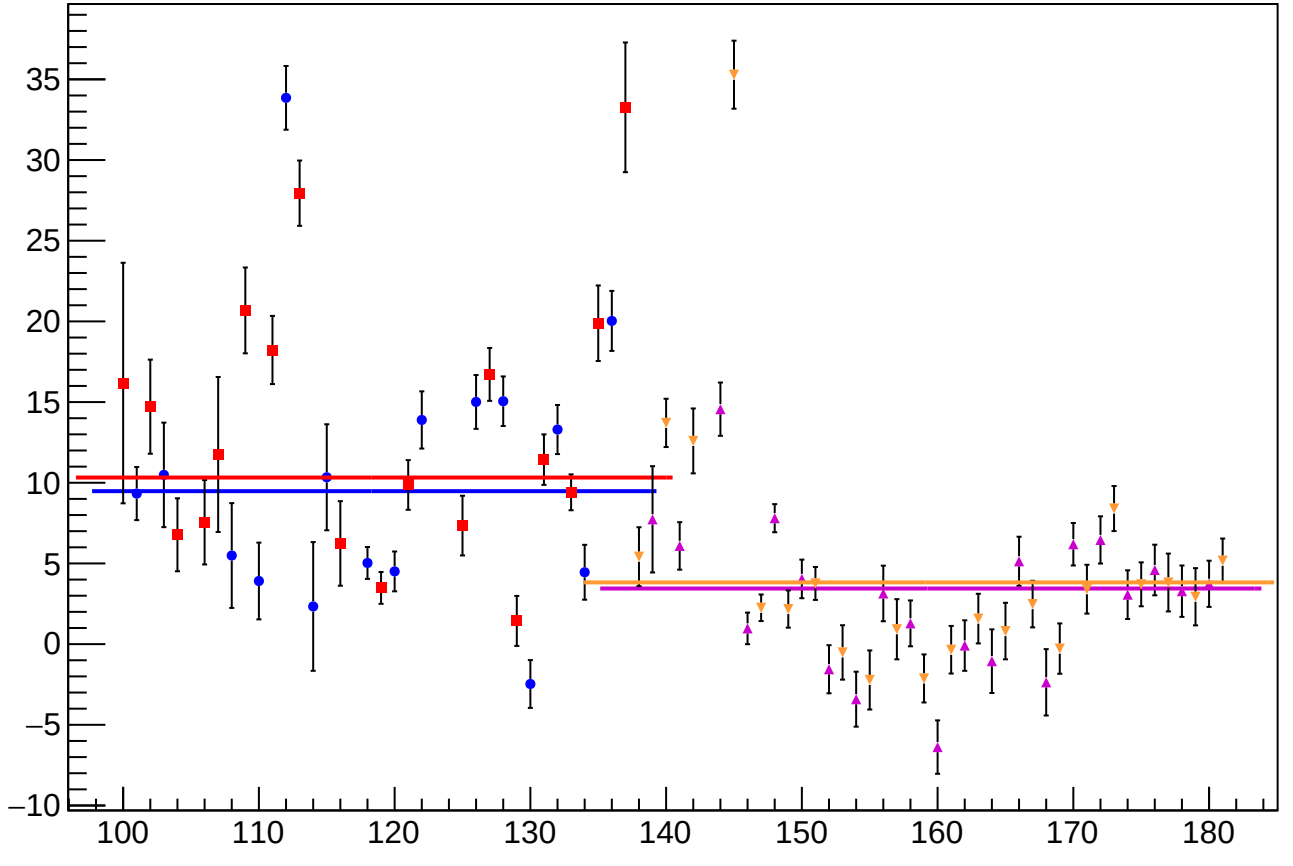
Right: -67.210+/-0.299 $\chi^2$/NDF: 2311.2/33

In: -73.142+/-0.302 $\chi^2$/NDF:2052.2/36

Out: -73.674+/-0.297 $\chi^2$/NDF:2442.1/39

All: -73.413+/-0.212 $\chi^2$/NDF: 4495.9/76

# reg_asym_usl_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 9.480+/-0.428 $\chi^2$/NDF: 341.9/15

Left Out: 3.827+/-0.308 $\chi^2$/NDF:360.7/21

Right Out: 10.324+/-0.436 $\chi^2$/NDF: 263.4/17

Left In: 3.447+/-0.315 $\chi^2$/NDF:175.6/20

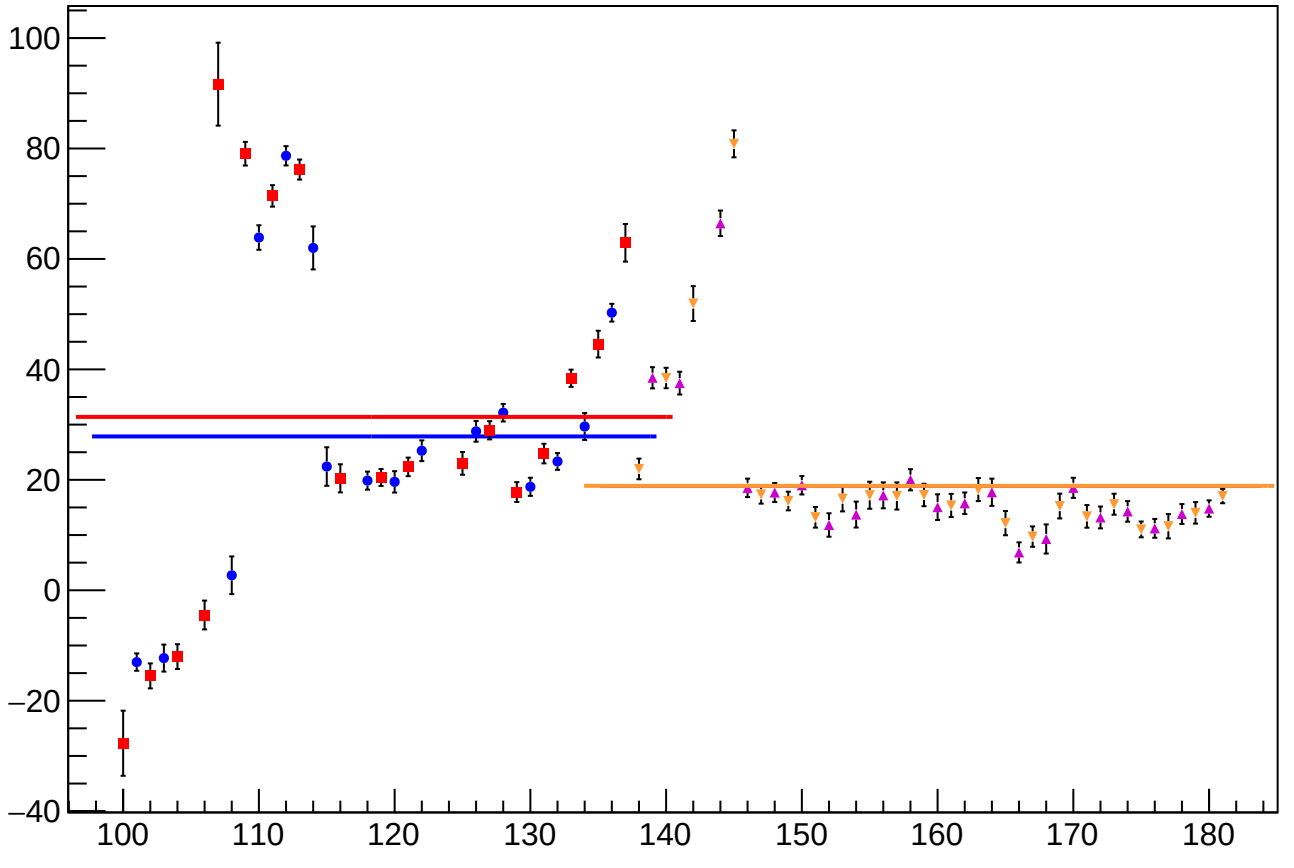
Left: 3.641+/-0.220 $\chi^2$/NDF: 537.1/42

Right: 9.895+/-0.305 $\chi^2$/NDF: 607.3/33

In: 5.566+/-0.254 $\chi^2$/NDF:646.4/36

Out: 5.992+/-0.251 $\chi^2$/NDF:772.5/39

All: 5.781+/-0.179 $\chi^2$/NDF: 1420.3/76




Right In: 27.860+/-0.482 $\chi^2$/NDF: 2474.0/15

Left Out: 18.908+/-0.414 $\chi^2$/NDF:983.5/21

Right Out: 31.394+/-0.488 $\chi^2$/NDF: 3011.4/17

Left In: 18.877+/-0.422 $\chi^2$/NDF:740.2/20

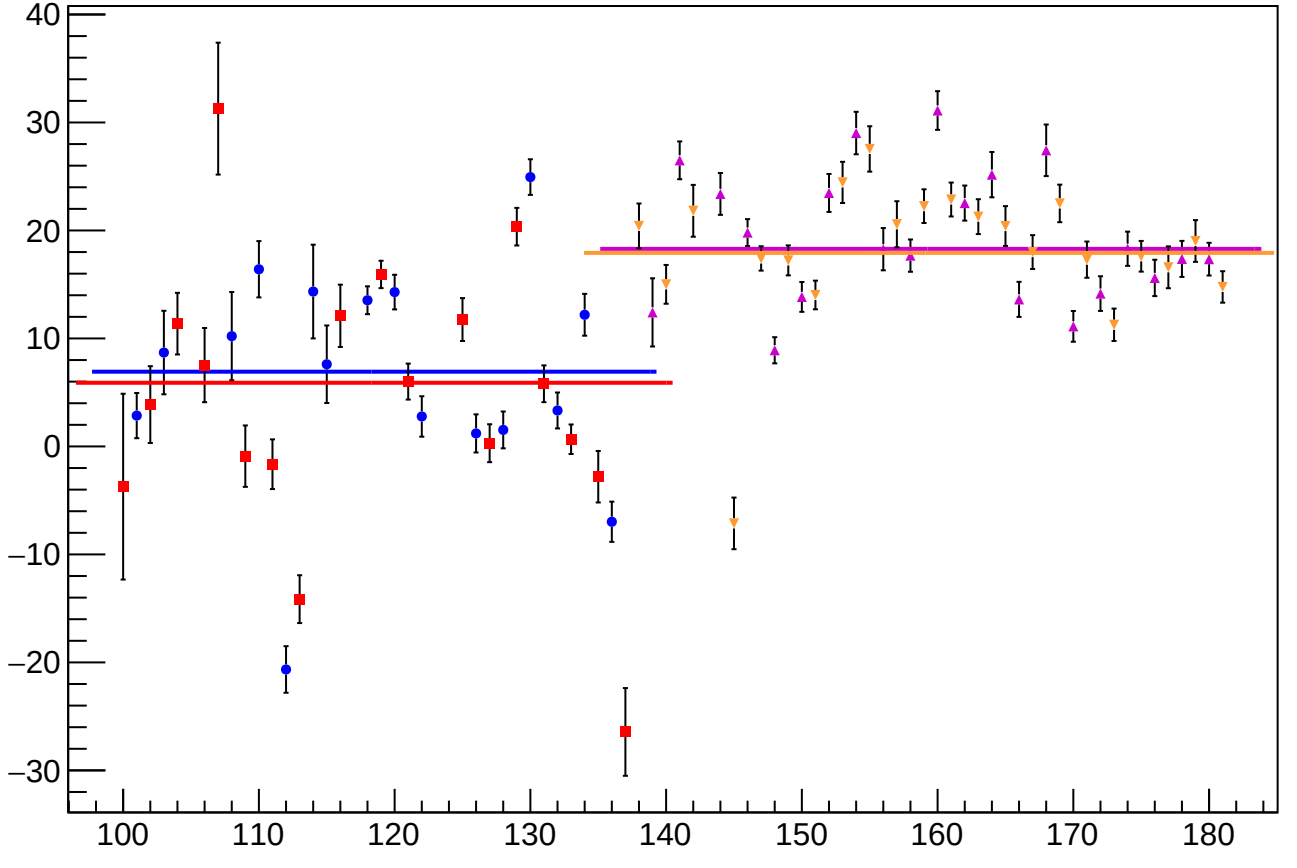
Left: 18.893+/-0.296 $\chi^2$/NDF: 1723.7/42

Right: 29.608+/-0.343 $\chi^2$/NDF: 5511.9/33

In: 22.771+/-0.318 $\chi^2$/NDF:3410.6/36

Out: 24.145+/-0.316 $\chi^2$/NDF:4375.7/39

All: 23.462+/-0.224 $\chi^2$/NDF: 7795.6/76




Right In: 6.922+/-0.496 $\chi^2$/NDF: 444.3/15

Left Out: 17.924+/-0.353 $\chi^2$/NDF:216.0/21

Right Out: 5.896+/-0.502 $\chi^2$/NDF: 367.7/17

Left In: 18.295+/-0.360 $\chi^2$/NDF:269.7/20

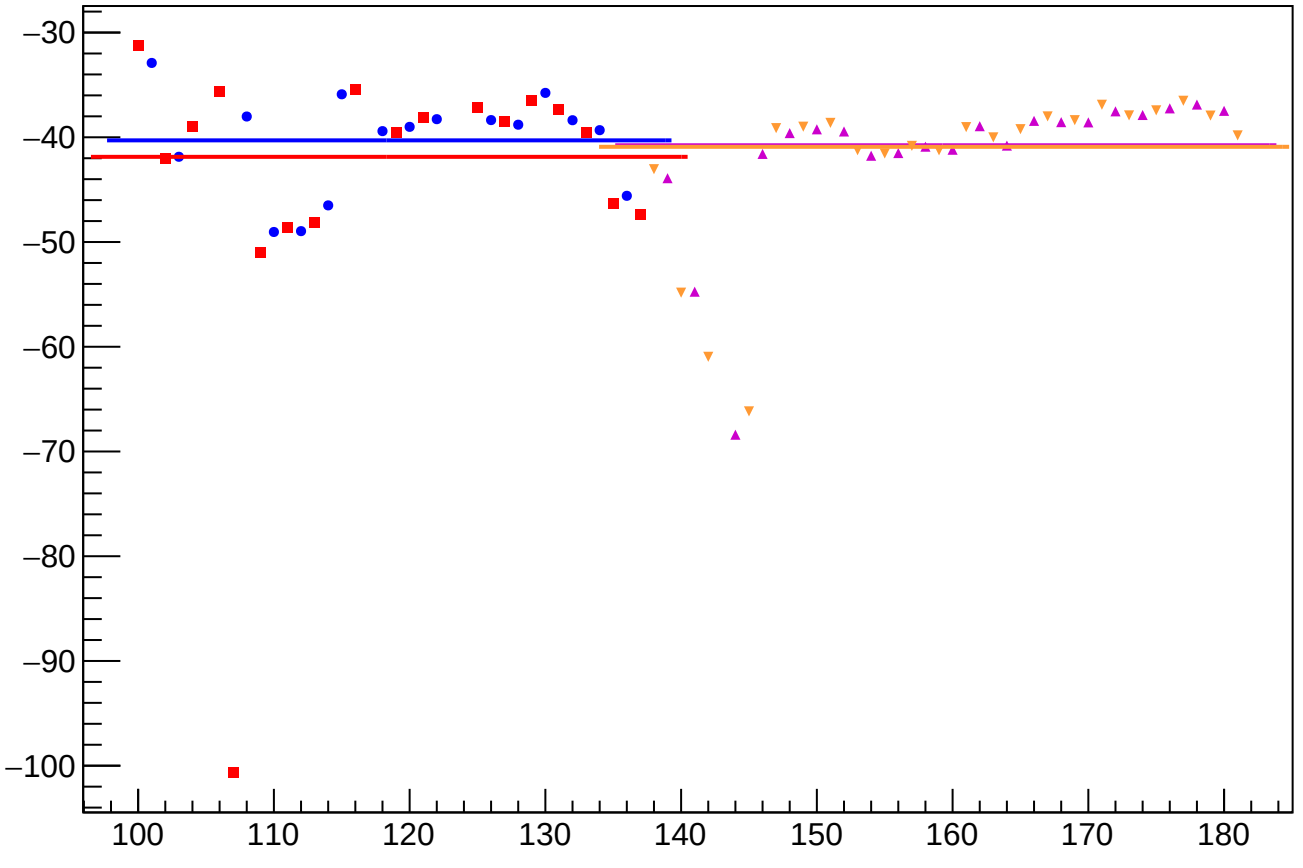
Left: 18.106+/-0.252 $\chi^2$/NDF: 486.3/42

Right: 6.415+/-0.353 $\chi^2$/NDF: 814.1/33

In: 14.372+/-0.291 $\chi^2$/NDF:1059.1/36

Out: 13.940+/-0.289 $\chi^2$/NDF:967.9/39

All: 14.154+/-0.205 $\chi^2$/NDF: 2028.1/76




Right In: -40.293+/-0.031 $\chi^2$/NDF: 20663.5/15

Left Out: -40.909+/-0.016 $\chi^2$/NDF:141332.9/21

Right Out: -41.867+/-0.032 $\chi^2$/NDF: 58734.8/17

Left In: -40.763+/-0.016 $\chi^2$/NDF:116628.1/20

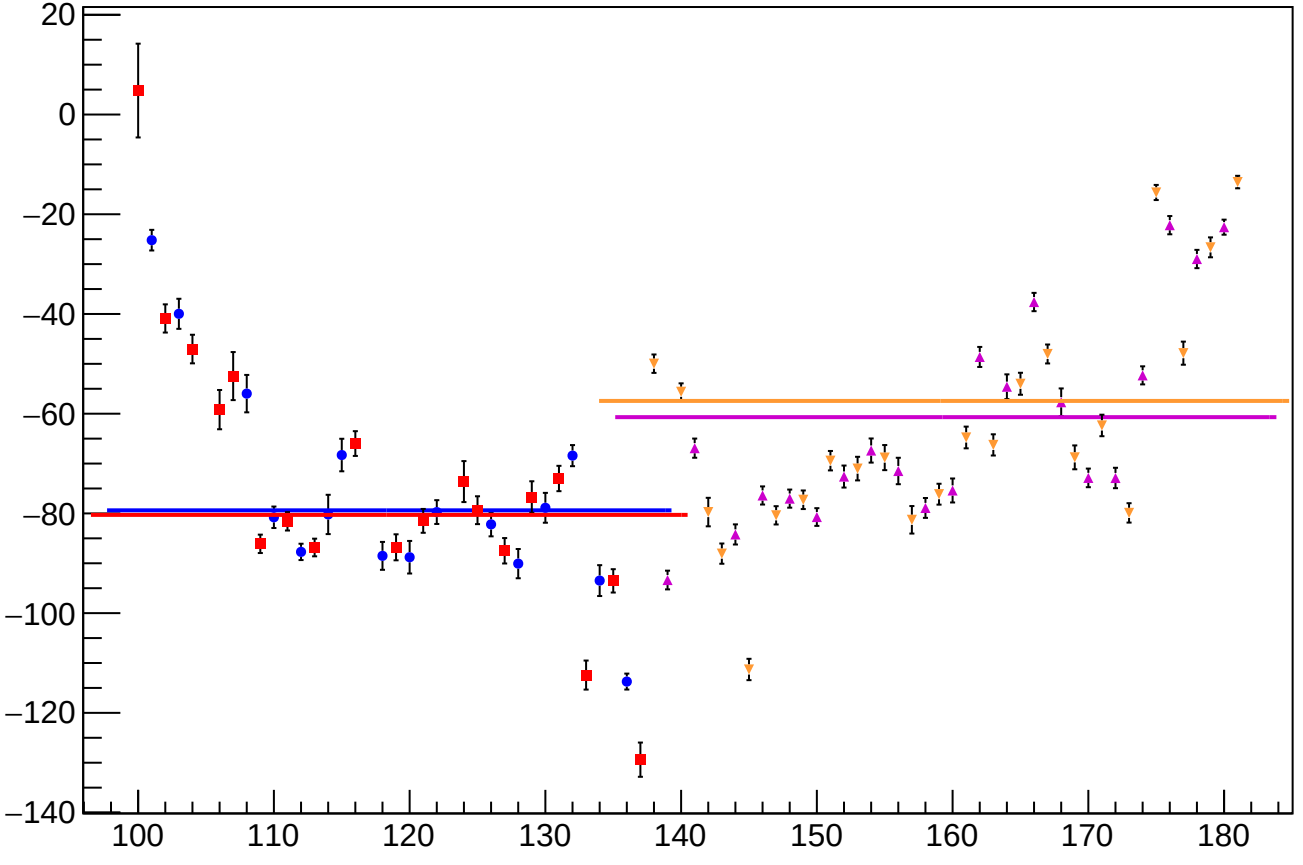
Left: -40.836+/-0.011 $\chi^2$/NDF: 258001.7/42

Right: -41.063+/-0.022 $\chi^2$/NDF: 80626.6/33

In: -40.664+/-0.014 $\chi^2$/NDF:137468.2/36

Out: -41.104+/-0.014 $\chi^2$/NDF:200776.6/39

All: -40.883+/-0.010 $\chi^2$/NDF: 338709.3/76




Right In: -79.382+/-0.611 $\chi^2$/NDF: 1475.9/15

Left Out: -57.438+/-0.414 $\chi^2$/NDF:3909.2/22

Right Out: -80.294+/-0.604 $\chi^2$/NDF: 914.7/18

Left In: -60.692+/-0.432 $\chi^2$/NDF:2584.8/20

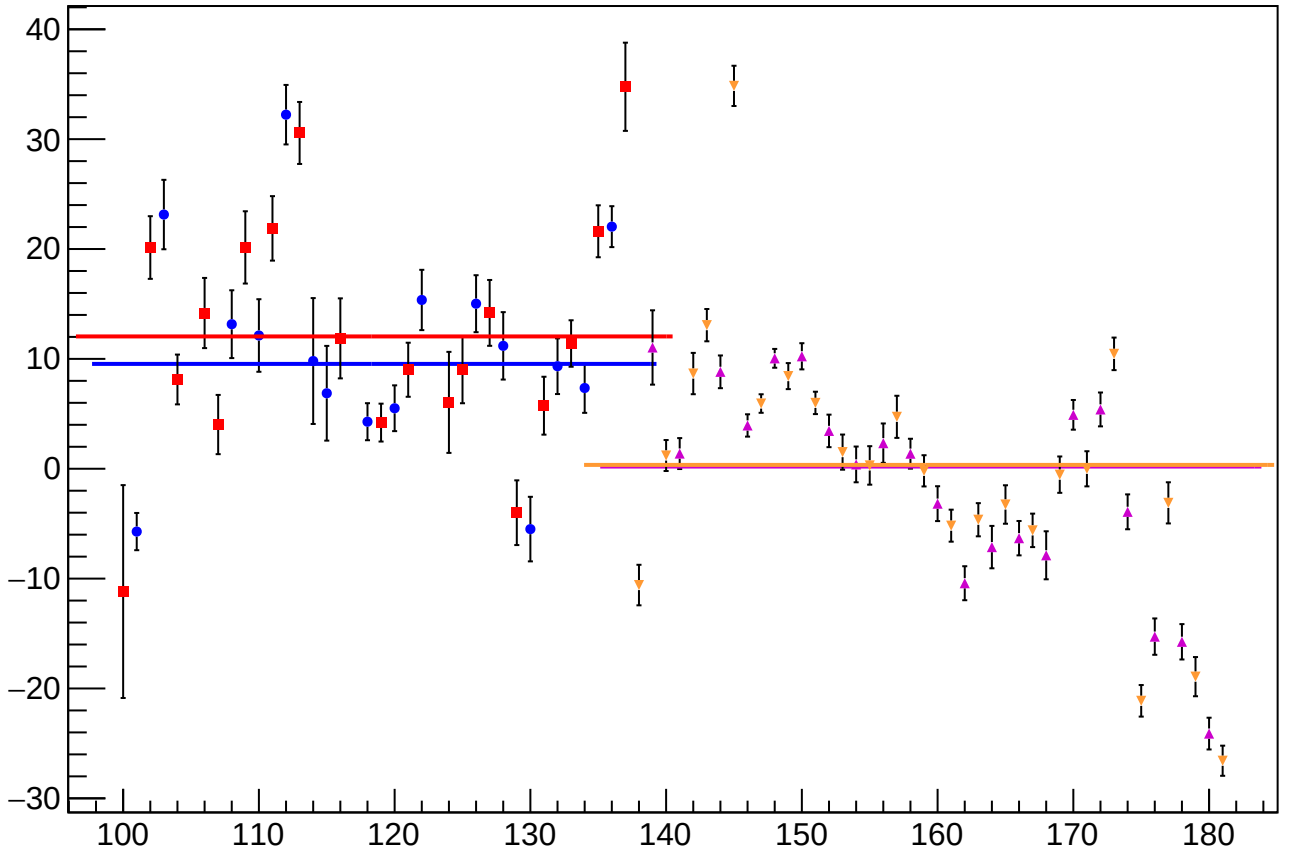
Left: -58.996+/-0.299 $\chi^2$/NDF: 6523.7/43

Right: -79.844+/-0.430 $\chi^2$/NDF: 2391.7/34

In: -66.914+/-0.353 $\chi^2$/NDF:4684.8/36

Out: -64.734+/-0.341 $\chi^2$/NDF:5798.7/41

All: -65.788+/-0.245 $\chi^2$/NDF: 10503.2/78




Right In: 9.543+/-0.621 $\chi^2$/NDF: 267.1/15

Left Out: 0.350+/-0.303 $\chi^2$/NDF:1432.2/22

Right Out: 12.044+/-0.637 $\chi^2$/NDF: 195.8/18

Left In: 0.199+/-0.315 $\chi^2$/NDF:864.3/20

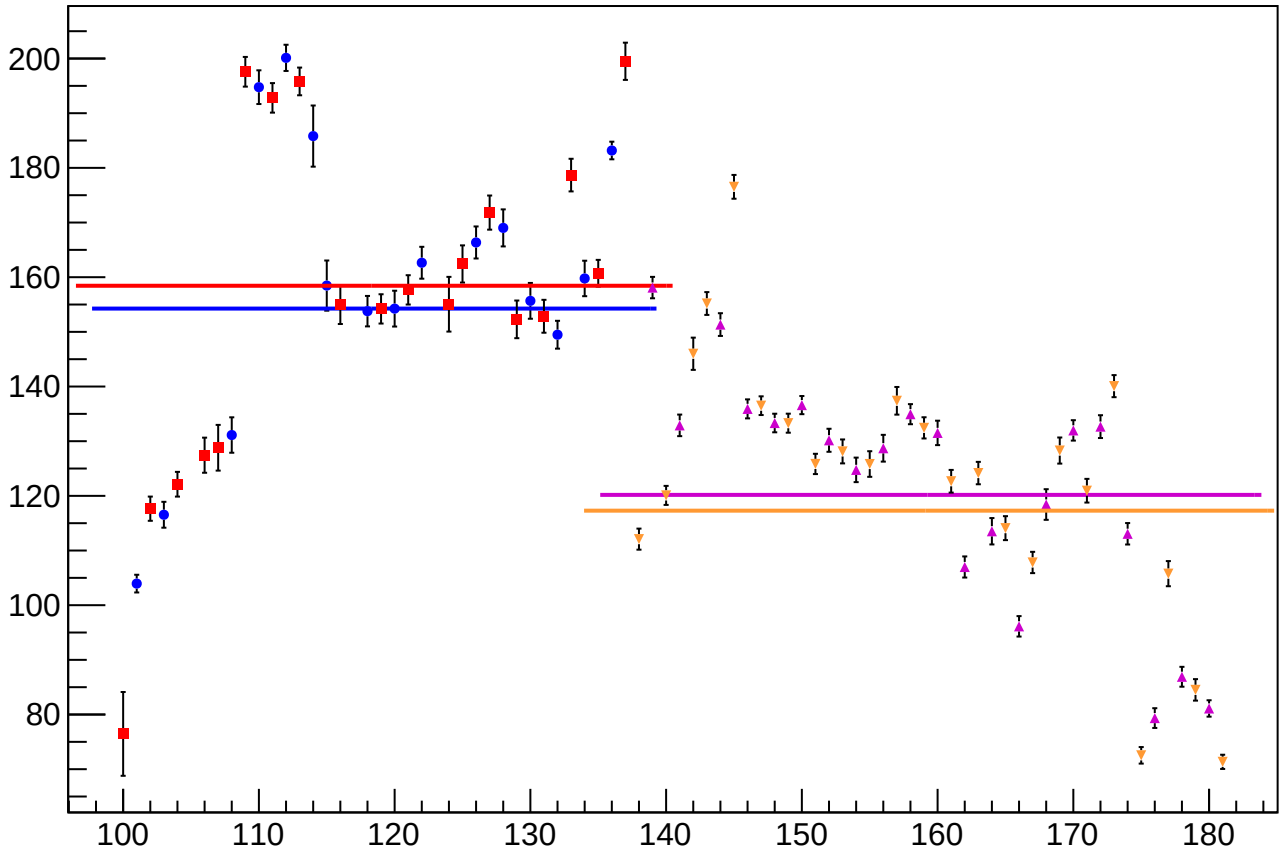
Left: 0.277+/-0.218 $\chi^2$/NDF: 2296.6/43

Right: 10.762+/-0.445 $\chi^2$/NDF: 470.8/34

In: 2.112+/-0.281 $\chi^2$/NDF:1311.3/36

Out: 2.507+/-0.274 $\chi^2$/NDF:1903.0/41

All: 2.315+/-0.196 $\chi^2$/NDF: 3215.2/78




Right In: 154.260+/-0.662 $\chi^2$/NDF: 2213.7/15

Left Out: 117.292+/-0.409 $\chi^2$/NDF:4188.0/22

Right Out: 158.435+/-0.683 $\chi^2$/NDF: 1664.2/18

Left In: 120.178+/-0.424 $\chi^2$/NDF:2842.2/20

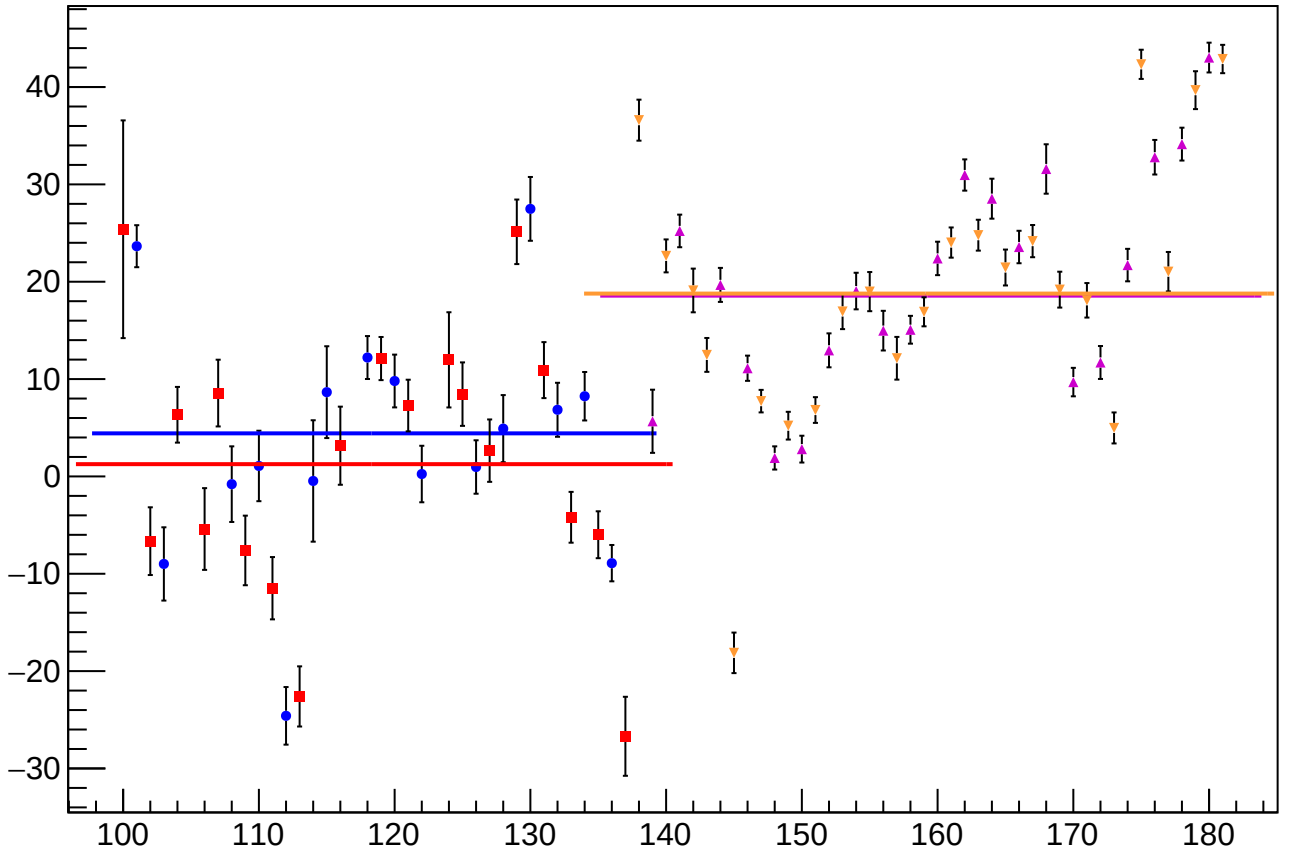
Left: 118.682+/-0.294 $\chi^2$/NDF: 7054.2/43

Right: 156.282+/-0.475 $\chi^2$/NDF: 3897.2/34

In: 130.103+/-0.357 $\chi^2$/NDF:6936.1/36

Out: 128.156+/-0.351 $\chi^2$/NDF:8525.9/41

All: 129.112+/-0.250 $\chi^2$/NDF: 15477.2/78




Right In: 4.424+/-0.714 $\chi^2$/NDF: 316.1/15

Left Out: 18.782+/-0.348 $\chi^2$/NDF:1430.6/22

Right Out: 1.260+/-0.732 $\chi^2$/NDF: 264.9/18

Left In: 18.572+/-0.360 $\chi^2$/NDF:996.4/20

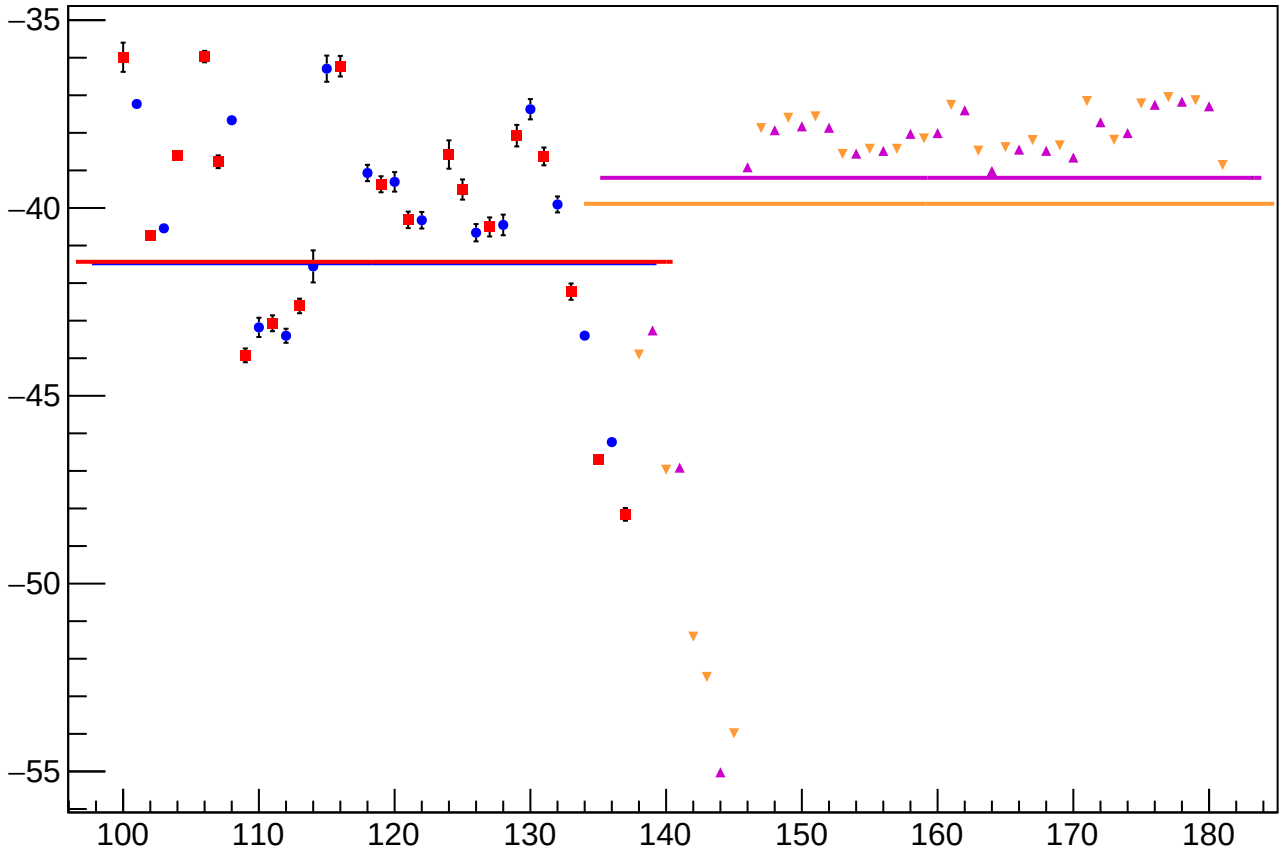
Left: 18.680+/-0.250 $\chi^2$/NDF: 2427.2/43

Right: 2.881+/-0.511 $\chi^2$/NDF: 590.5/34

In: 15.699+/-0.322 $\chi^2$/NDF:1625.4/36

Out: 15.550+/-0.314 $\chi^2$/NDF:2163.3/41

All: 15.623+/-0.225 $\chi^2$/NDF: 3788.8/78




Right In: -41.472+/-0.038 $\chi^2$/NDF: 7912.0/15

Left Out: -39.888+/-0.016 $\chi^2$/NDF:81013.1/22

Right Out: -41.433+/-0.040 $\chi^2$/NDF: 8225.4/18

Left In: -39.198+/-0.016 $\chi^2$/NDF:46748.9/20

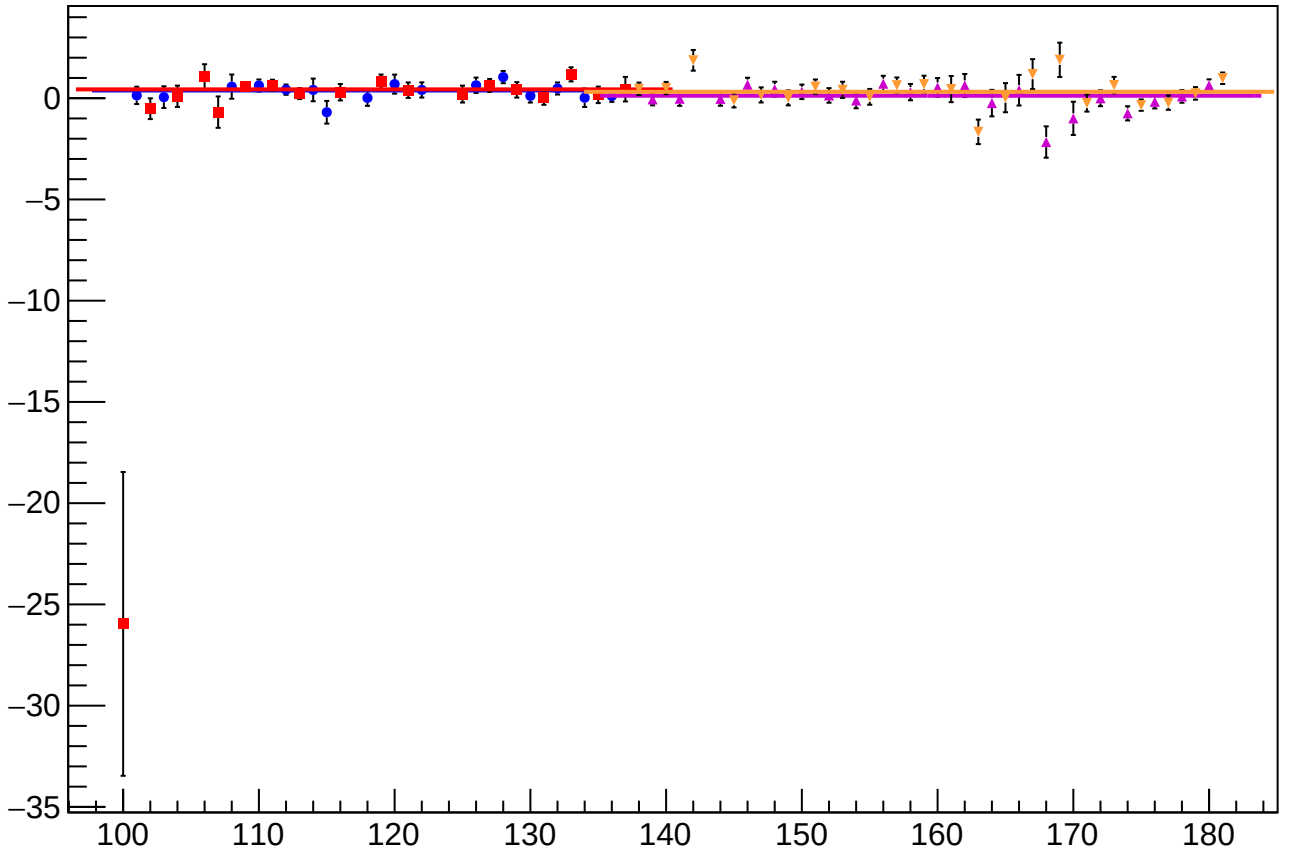
Left: -39.548+/-0.011 $\chi^2$/NDF: 128673.2/43

Right: -41.453+/-0.027 $\chi^2$/NDF: 16137.9/34

In: -39.549+/-0.015 $\chi^2$/NDF:57671.4/36

Out: -40.108+/-0.015 $\chi^2$/NDF:90549.4/41

All: -39.830+/-0.011 $\chi^2$/NDF: 148919.3/78




Right In: 0.382+/-0.092 $\chi^2$/NDF: 14.0/15

Left Out: 0.317+/-0.083 $\chi^2$/NDF:46.2/21

Right Out: 0.436+/-0.090 $\chi^2$/NDF: 29.0/17

Left In: 0.122+/-0.085 $\chi^2$/NDF:29.9/20

Left: 0.222+/-0.059 $\chi^2$/NDF: 78.8/42

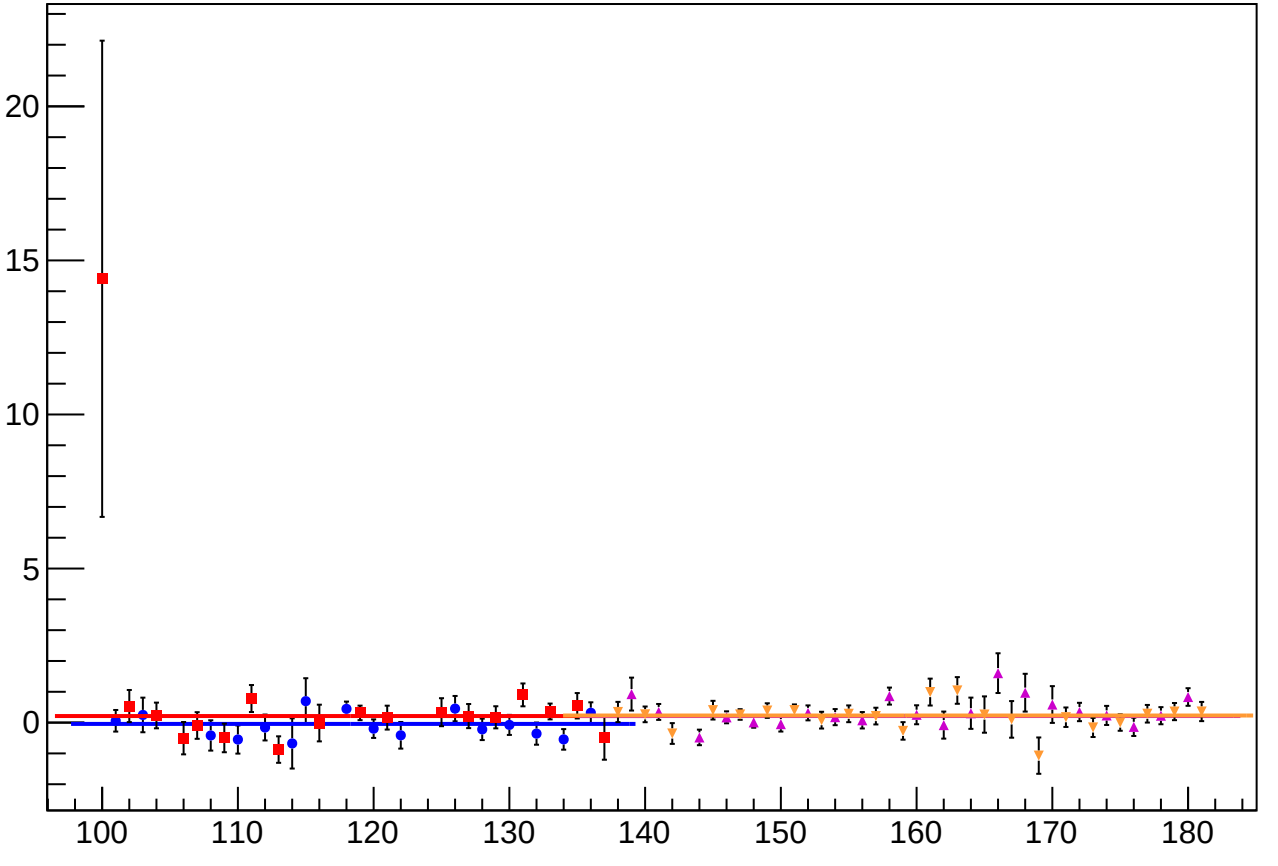
Right: 0.410+/-0.064 $\chi^2$/NDF: 43.2/33

In: 0.241+/-0.062 $\chi^2$/NDF:48.3/36

Out: 0.371+/-0.061 $\chi^2$/NDF:76.1/39

All: 0.308+/-0.044 $\chi^2$/NDF: 126.6/76

# reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.043+/-0.094 $\chi^2$/NDF: 15.0/15

Left Out: 0.230+/-0.061 $\chi^2$/NDF:22.5/21

Right Out: 0.213+/-0.095 $\chi^2$/NDF: 22.4/17

Left In: 0.213+/-0.063 $\chi^2$/NDF:31.5/20

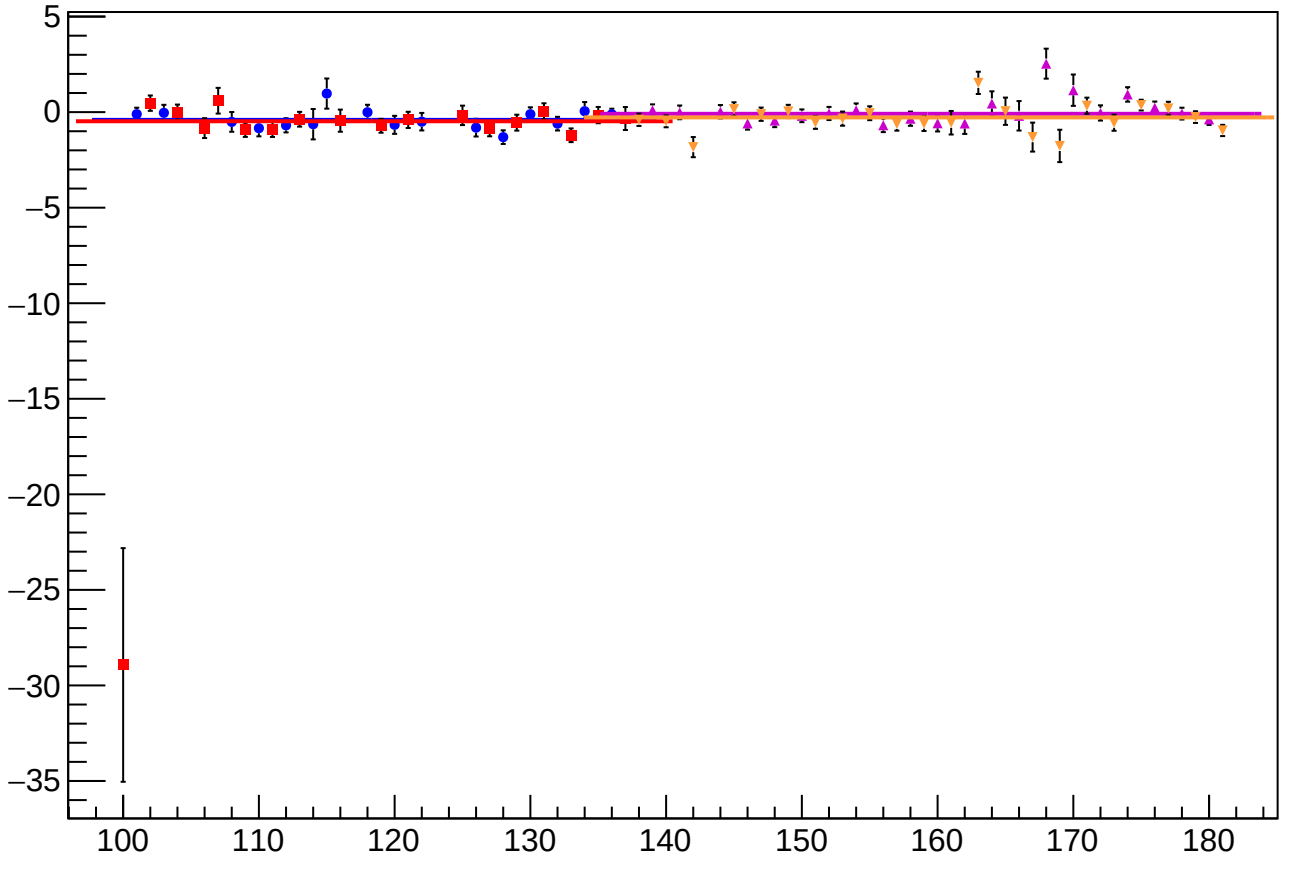
Left: 0.222+/-0.044 $\chi^2$/NDF: 54.1/42

Right: 0.084+/-0.067 $\chi^2$/NDF: 41.1/33

In: 0.135+/-0.052 $\chi^2$/NDF:51.7/36

Out: 0.225+/-0.051 $\chi^2$/NDF:45.0/39

All: 0.180+/-0.037 $\chi^2$/NDF: 98.2/76




Right In: -0.406+/-0.103 $\chi^2$/NDF: 17.8/15

Left Out: -0.277+/-0.081 $\chi^2$/NDF:44.3/21

Right Out: -0.478+/-0.104 $\chi^2$/NDF: 42.3/17

Left In: -0.088+/-0.083 $\chi^2$/NDF:32.9/20

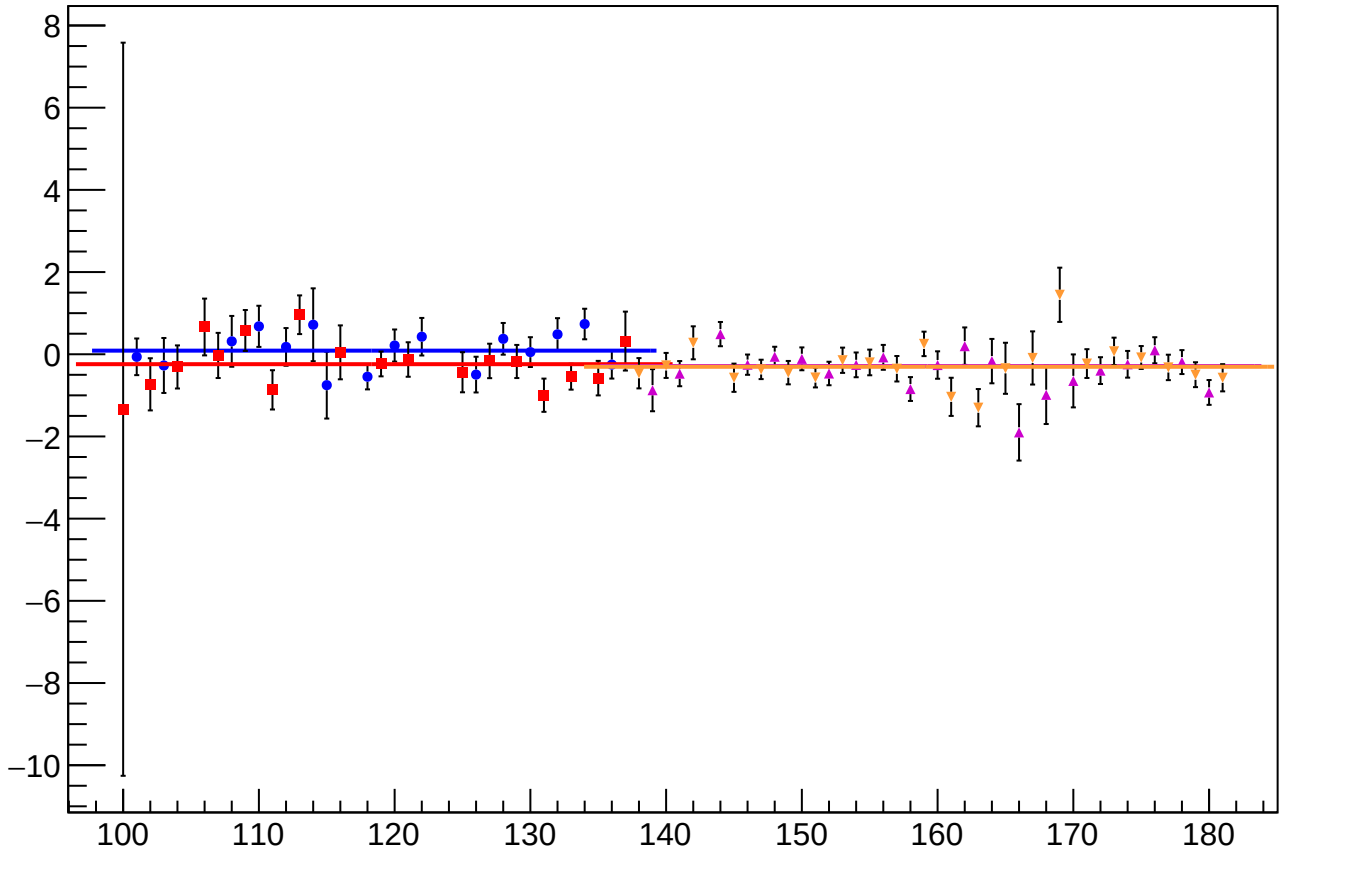
Left: -0.184+/-0.058 $\chi^2$/NDF: 79.9/42

Right: -0.441+/-0.073 $\chi^2$/NDF: 60.3/33

In: -0.213+/-0.065 $\chi^2$/NDF:56.5/36

Out: -0.353+/-0.064 $\chi^2$/NDF:88.9/39

All: -0.284+/-0.046 $\chi^2$/NDF: 147.7/76




Right In: 0.088+/-0.108 $\chi^2$/NDF: 15.9/15

Left Out: -0.304+/-0.071 $\chi^2$/NDF:25.8/21

Right Out: -0.241+/-0.110 $\chi^2$/NDF: 19.6/17

Left In: -0.288+/-0.072 $\chi^2$/NDF:28.8/20

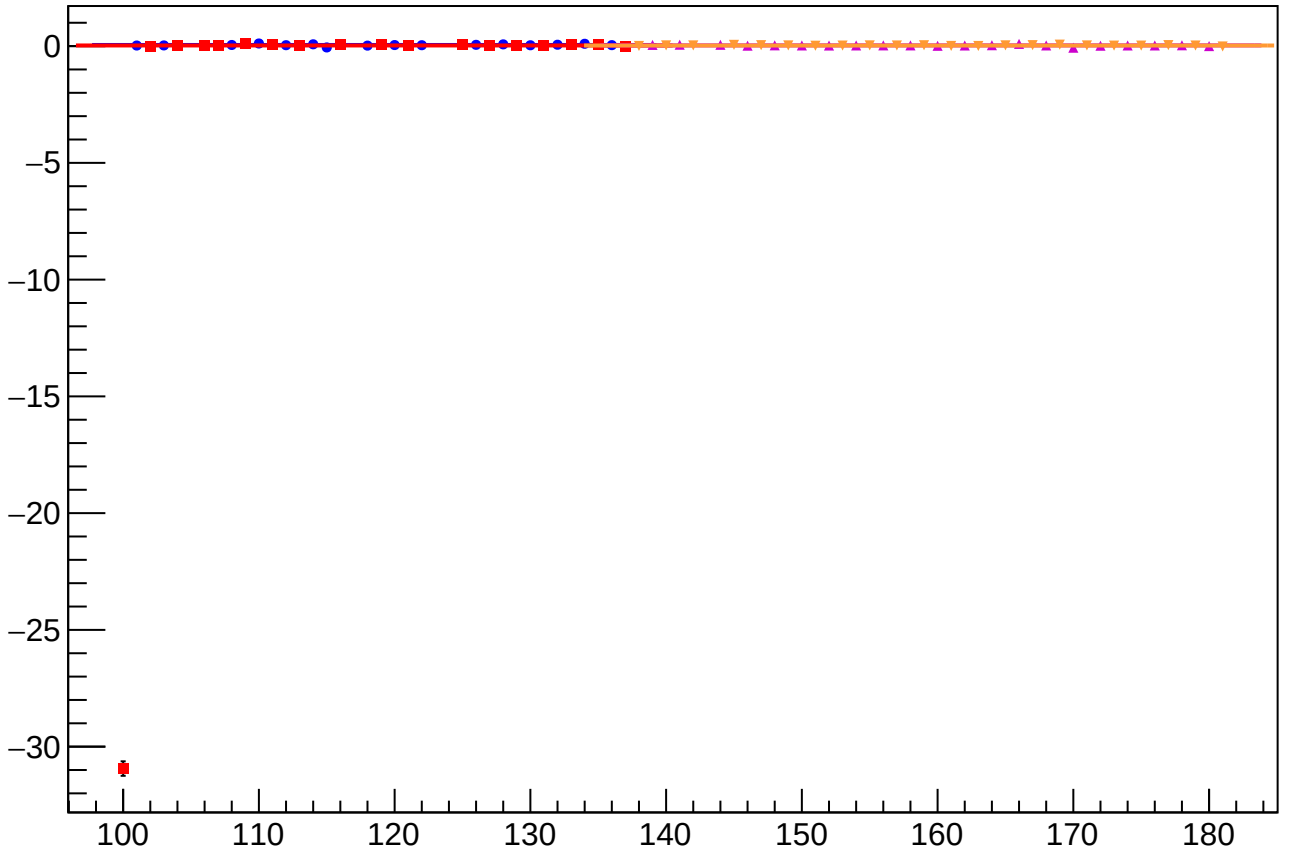
Left: -0.296+/-0.050 $\chi^2$/NDF: 54.6/42

Right: -0.075+/-0.077 $\chi^2$/NDF: 40.0/33

In: -0.173+/-0.060 $\chi^2$/NDF:53.0/36

Out: -0.286+/-0.059 $\chi^2$/NDF:45.7/39

All: -0.230+/-0.042 $\chi^2$/NDF: 100.4/76




Right In: 0.049+/-0.006 $\chi^2$/NDF: 19.2/15

Left Out: 0.026+/-0.003 $\chi^2$/NDF:22.1/21

Right Out: 0.028+/-0.006 $\chi^2$/NDF: 10020.9/17

Left In: 0.031+/-0.003 $\chi^2$/NDF:35.2/20

Left: 0.028+/-0.002 $\chi^2$/NDF: 58.5/42

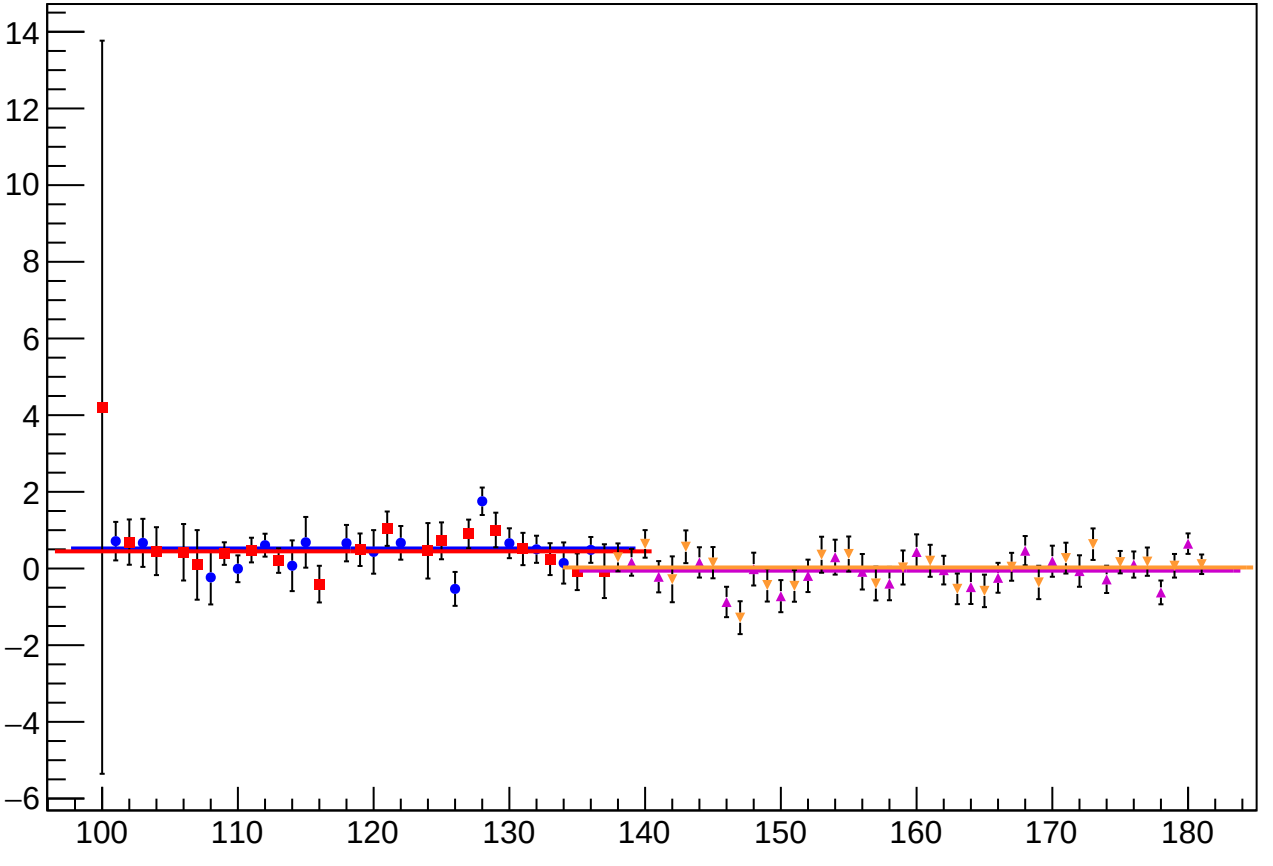
Right: 0.038+/-0.004 $\chi^2$/NDF: 10045.5/33

In: 0.034+/-0.003 $\chi^2$/NDF:60.8/36

Out: 0.026+/-0.003 $\chi^2$/NDF:10043.1/39

All: 0.030+/-0.002 $\chi^2$/NDF: 10108.0/76

# reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 0.522+/-0.108 $\chi^2$/NDF: 22.6/15

Left Out: 0.027+/-0.081 $\chi^2$/NDF:27.3/22

Right Out: 0.448+/-0.105 $\chi^2$/NDF: 11.4/18

Left In: -0.056+/-0.084 $\chi^2$/NDF:24.4/20

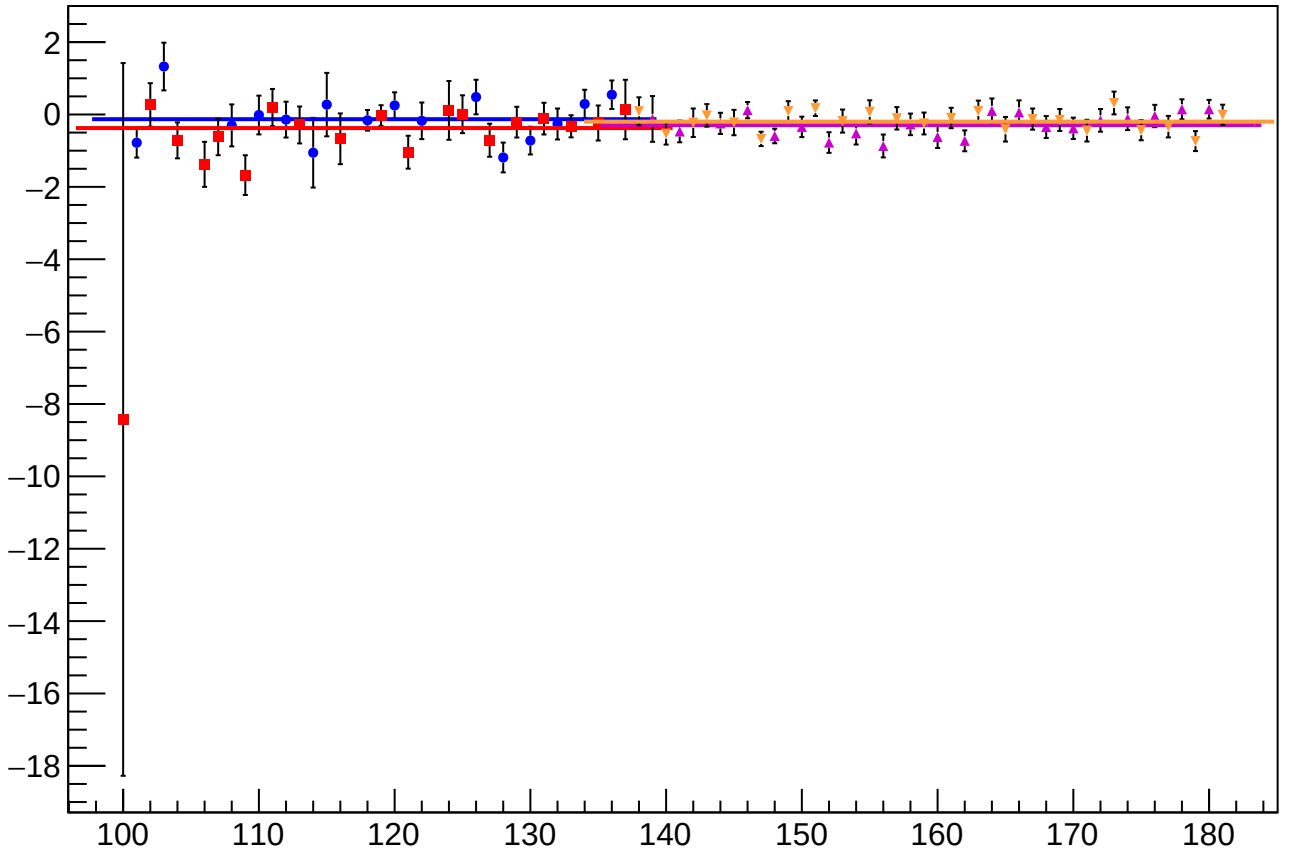
Left: -0.013+/-0.058 $\chi^2$/NDF: 52.2/43

Right: 0.484+/-0.075 $\chi^2$/NDF: 34.3/34

In: 0.161+/-0.066 $\chi^2$/NDF:64.8/36

Out: 0.183+/-0.064 $\chi^2$/NDF:48.8/41

All: 0.172+/-0.046 $\chi^2$/NDF: 113.6/78




Right In: -0.130+/-0.112 $\chi^2$/NDF: 24.6/15

Left Out: -0.198+/-0.061 $\chi^2$/NDF:23.1/22

Right Out: -0.375+/-0.111 $\chi^2$/NDF: 18.2/18

Left In: -0.295+/-0.063 $\chi^2$/NDF:25.3/20

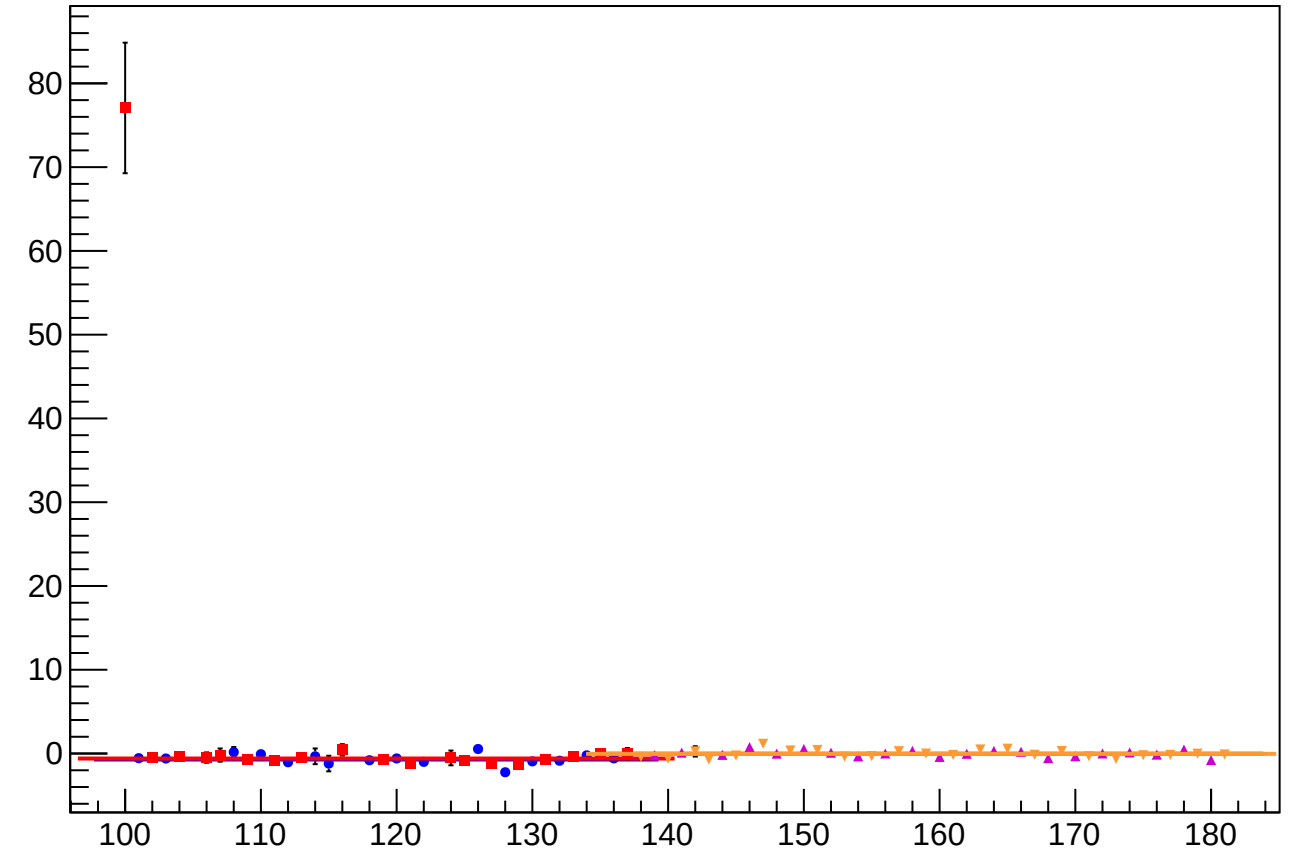
Left: -0.244+/-0.044 $\chi^2$/NDF: 49.6/43

Right: -0.253+/-0.079 $\chi^2$/NDF: 45.2/34

In: -0.254+/-0.055 $\chi^2$/NDF:51.5/36

Out: -0.238+/-0.053 $\chi^2$/NDF:43.2/41

All: -0.246+/-0.038 $\chi^2$/NDF: 94.8/78




Right In: -0.713+/-0.122 $\chi^2$/NDF: 24.9/15

Left Out: -0.043+/-0.080 $\chi^2$/NDF:26.9/22

Right Out: -0.597+/-0.122 $\chi^2$/NDF: 110.9/18

Left In: -0.023+/-0.083 $\chi^2$/NDF:23.2/20

Left: -0.033+/-0.057 $\chi^2$/NDF: 50.2/43

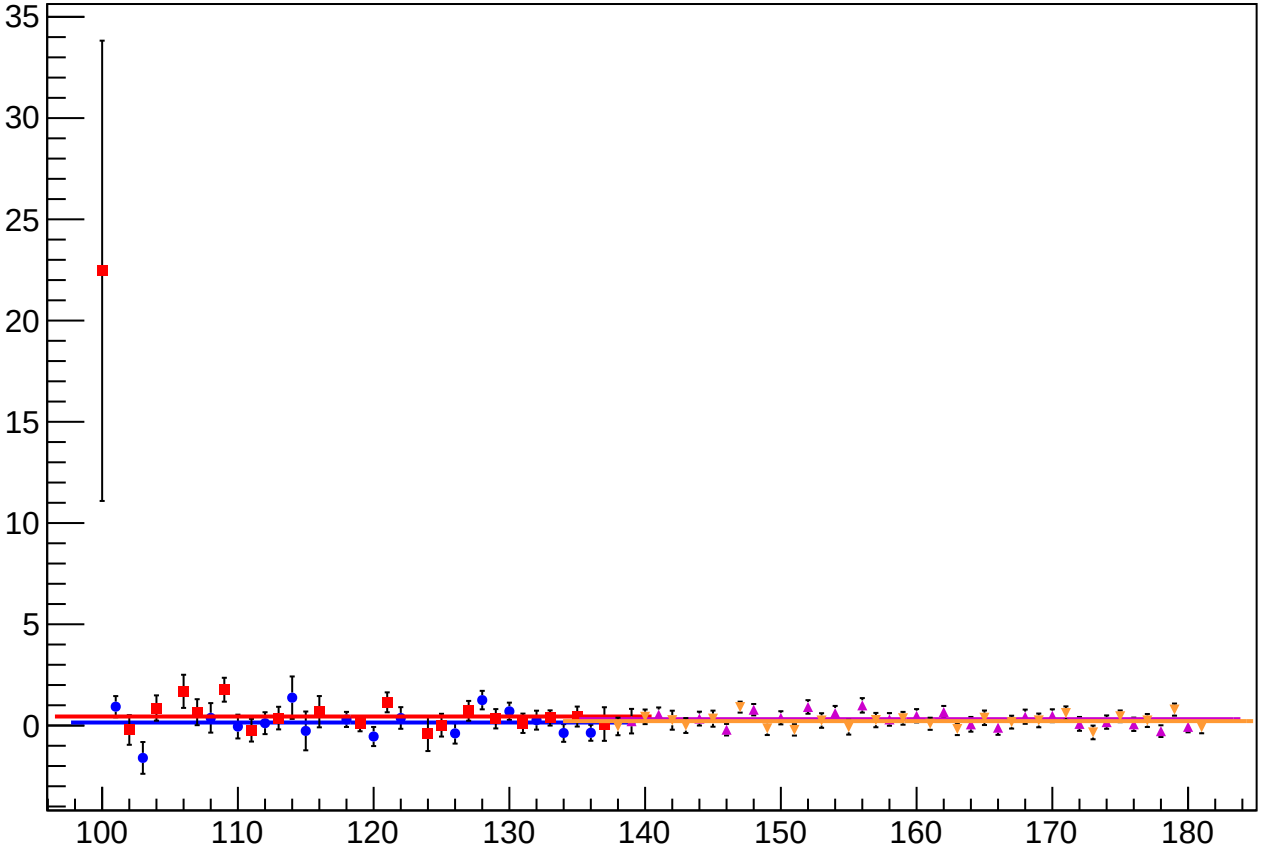
Right: -0.655+/-0.086 $\chi^2$/NDF: 136.3/34

In: -0.241+/-0.068 $\chi^2$/NDF:70.1/36

Out: -0.210+/-0.067 $\chi^2$/NDF:152.4/41

All: -0.225+/-0.048 $\chi^2$/NDF: 222.6/78

# reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 0.148+/-0.128 $\chi^2$/NDF: 23.3/15

Left Out: 0.217+/-0.069 $\chi^2$/NDF:23.8/22

Right Out: 0.445+/-0.128 $\chi^2$/NDF: 19.7/18

Left In: 0.313+/-0.072 $\chi^2$/NDF:25.4/20

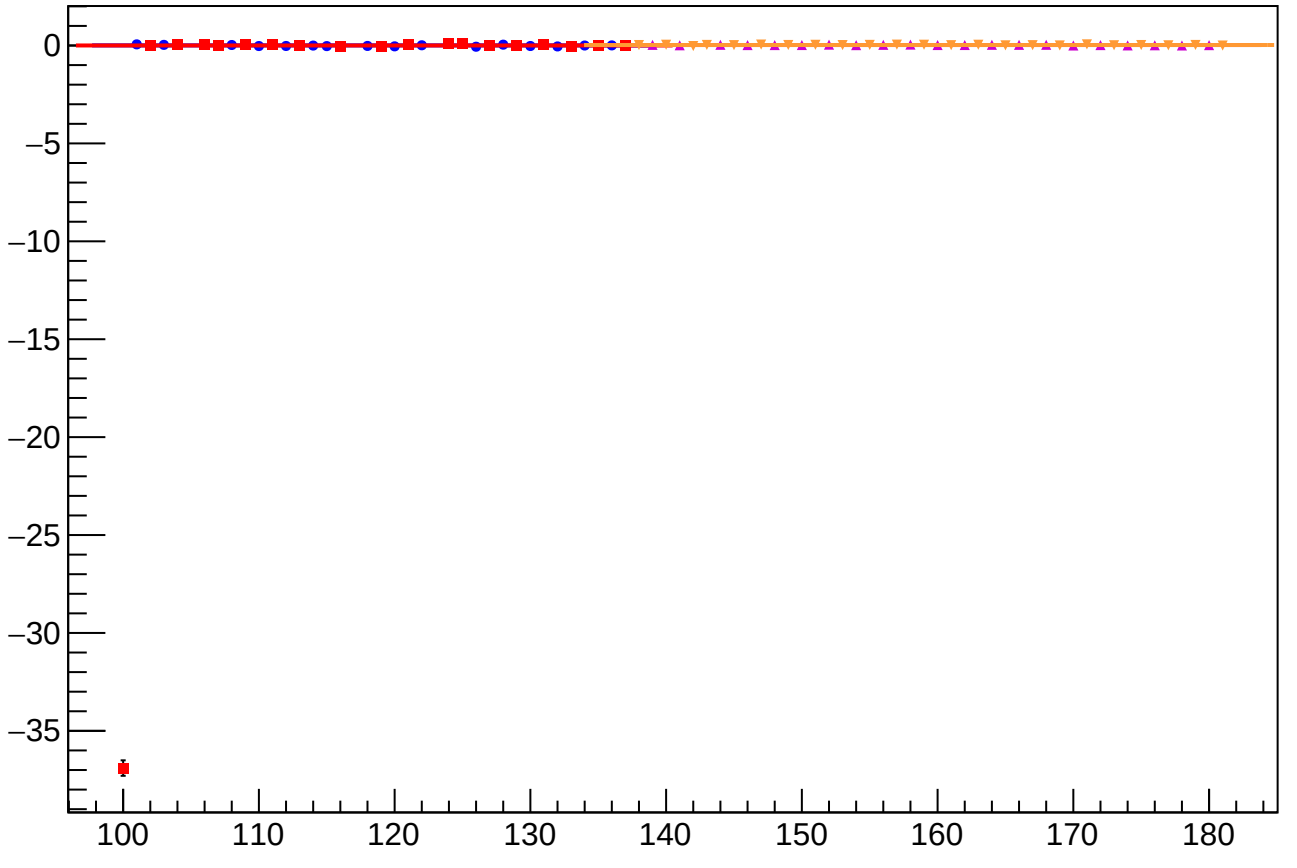
Left: 0.263+/-0.050 $\chi^2$/NDF: 50.1/43

Right: 0.296+/-0.090 $\chi^2$/NDF: 45.7/34

In: 0.274+/-0.063 $\chi^2$/NDF:50.0/36

Out: 0.268+/-0.061 $\chi^2$/NDF:45.9/41

All: 0.271+/-0.044 $\chi^2$/NDF: 95.9/78




Right In: 0.006+/-0.007 $\chi^2$/NDF: 17.6/15

Left Out: 0.025+/-0.003 $\chi^2$/NDF:27.7/22

Right Out: 0.002+/-0.007 $\chi^2$/NDF: 8753.3/18

Left In: 0.025+/-0.003 $\chi^2$/NDF:17.0/20

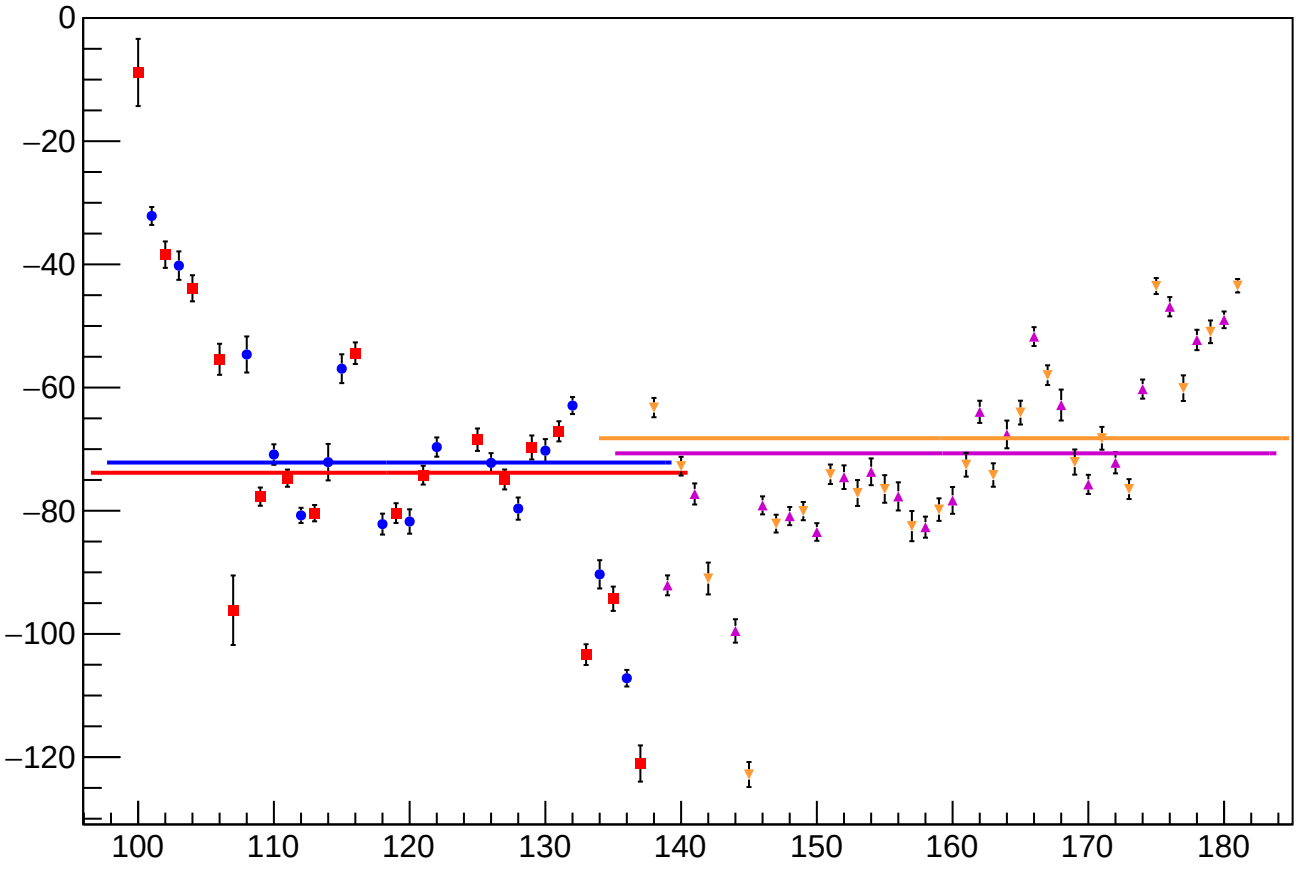
Left: 0.025+/-0.002 $\chi^2$/NDF: 44.7/43

Right: 0.004+/-0.005 $\chi^2$/NDF: 8771.0/34

In: 0.022+/-0.003 $\chi^2$/NDF:39.9/36

Out: 0.021+/-0.003 $\chi^2$/NDF:8788.8/41

All: 0.022+/-0.002 $\chi^2$/NDF: 8828.7/78




Right In: -72.173+/-0.432 $\chi^2$/NDF: 1936.0/15

Left Out: -68.225+/-0.365 $\chi^2$/NDF:2159.6/21

Right Out: -73.831+/-0.431 $\chi^2$/NDF: 1557.7/17

Left In: -70.678+/-0.372 $\chi^2$/NDF:1505.1/20

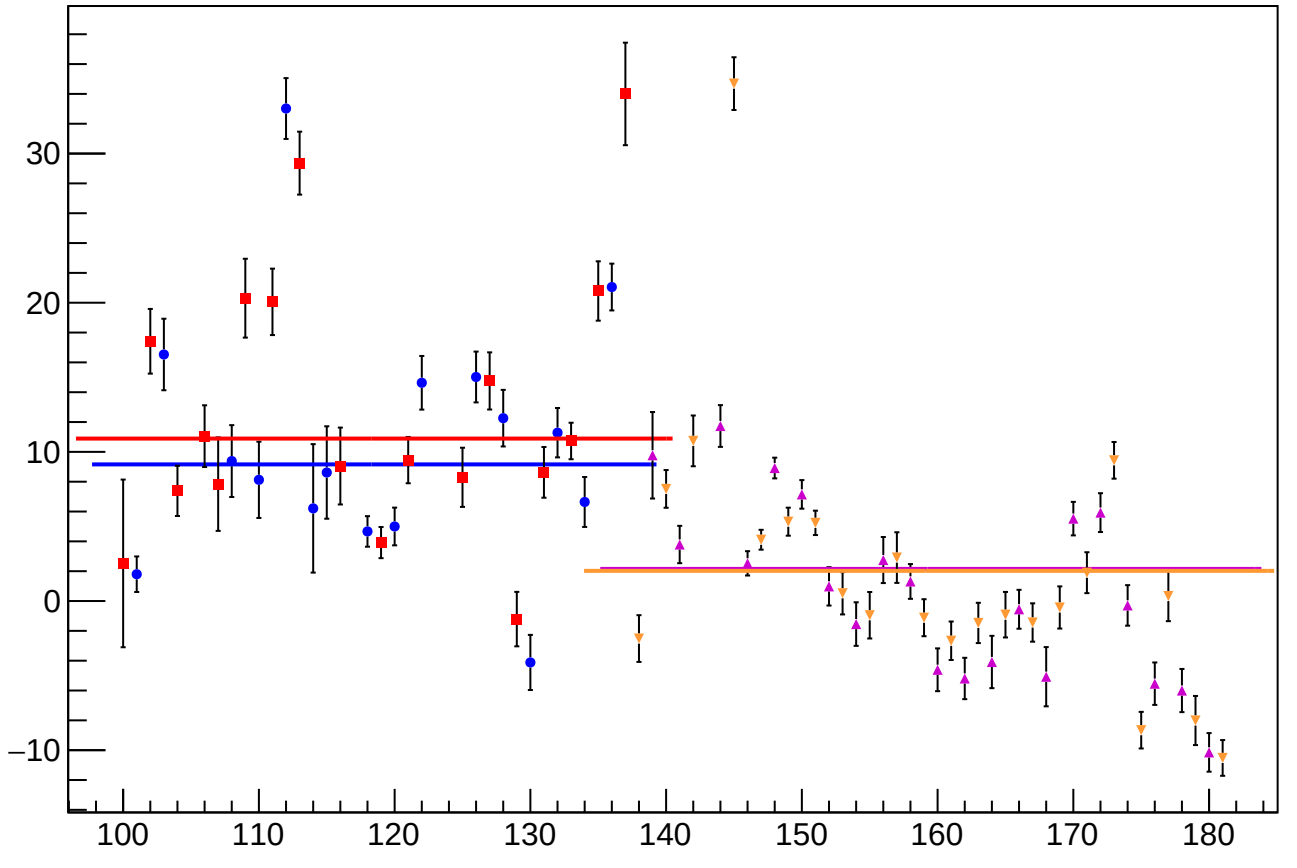
Left: -69.426+/-0.260 $\chi^2$/NDF: 3686.9/42

Right: -73.004+/-0.305 $\chi^2$/NDF: 3501.0/33

In: -71.315+/-0.282 $\chi^2$/NDF:3447.9/36

Out: -70.565+/-0.278 $\chi^2$/NDF:3816.0/39

All: -70.935+/-0.198 $\chi^2$/NDF: 7267.5/76




Right In: 9.161+/-0.425 $\chi^2$/NDF: 352.1/15

Left Out: 2.023+/-0.263 $\chi^2$/NDF:737.9/21

Right Out: 10.892+/-0.440 $\chi^2$/NDF: 290.2/17

Left In: 2.154+/-0.269 $\chi^2$/NDF:438.1/20

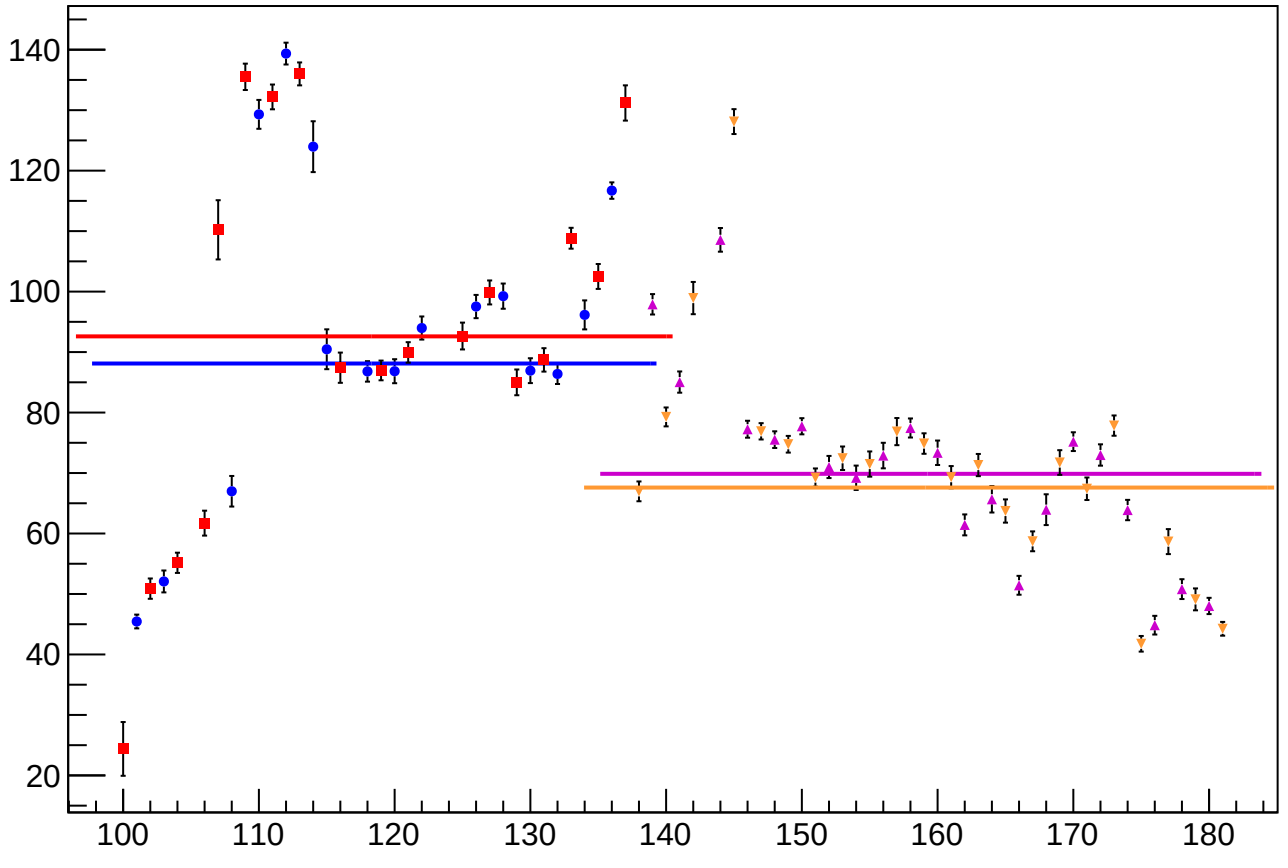
Left: 2.087+/-0.188 $\chi^2$/NDF: 1176.1/42

Right: 9.996+/-0.306 $\chi^2$/NDF: 650.3/33

In: 4.157+/-0.227 $\chi^2$/NDF:984.2/36

Out: 4.357+/-0.226 $\chi^2$/NDF:1327.3/39

All: 4.258+/-0.160 $\chi^2$/NDF: 2311.9/76




Right In: 88.109+/-0.469 $\chi^2$/NDF: 3561.7/15

Left Out: 67.598+/-0.359 $\chi^2$/NDF:2202.5/21

Right Out: 92.596+/-0.483 $\chi^2$/NDF: 3211.0/17

Left In: 69.868+/-0.365 $\chi^2$/NDF:1710.3/20

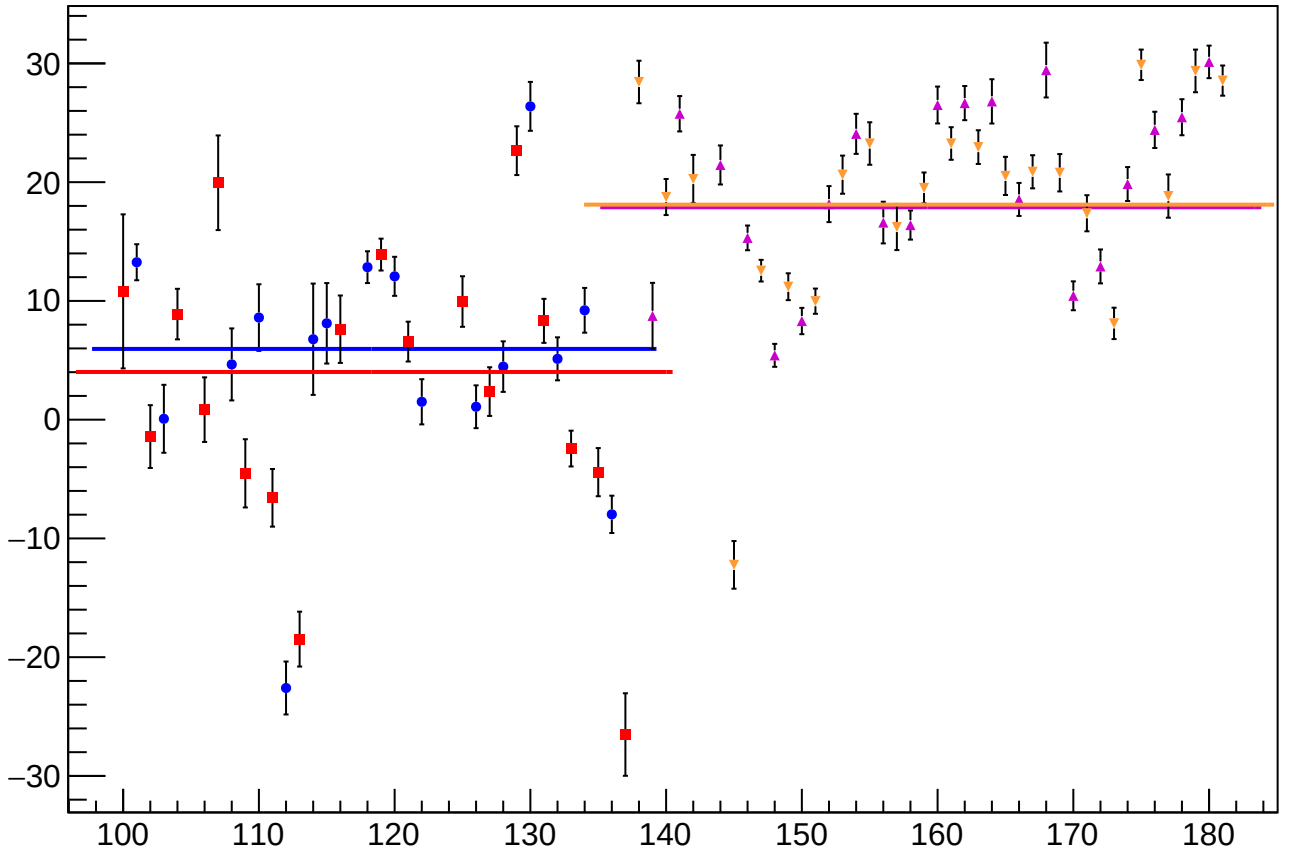
Left: 68.714+/-0.256 $\chi^2$/NDF: 3932.4/42

Right: 90.284+/-0.336 $\chi^2$/NDF: 6817.1/33

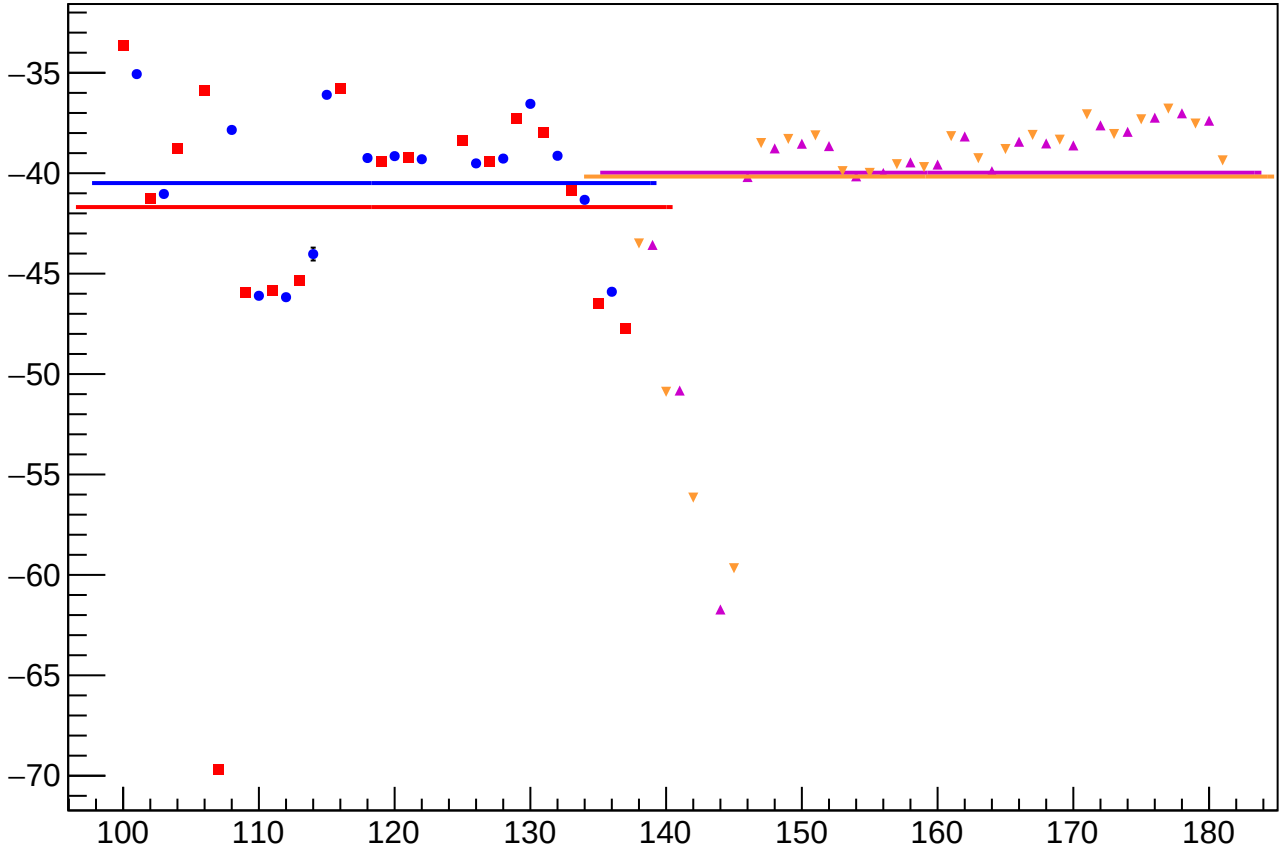
In: 76.765+/-0.288 $\chi^2$/NDF:6214.4/36

Out: 76.500+/-0.288 $\chi^2$/NDF:7137.3/39

All: 76.633+/-0.204 $\chi^2$/NDF: 13352.1/76


reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
30
20
10
0
−10
−20
−30
100
110
120
130
140
150
160
170
180
Right In: 5.958+/-0.495 χ²/NDF: 426.8/15
Left Out: 18.108+/-0.304 χ²/NDF:693.0/21
Right Out: 4.017+/-0.510 χ²/NDF: 417.7/17
Left In: 17.887+/-0.309 χ²/NDF:597.2/20
Left: 17.999+/-0.217 χ²/NDF: 1290.4/42
Right: 5.016+/-0.355 χ²/NDF: 851.9/33
In: 14.541+/-0.262 χ²/NDF:1442.4/36
Out: 14.415+/-0.261 χ²/NDF:1674.8/39
All: 14.477+/-0.185 χ²/NDF: 3117.3/76

reg_asym_us_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -40.491+/-0.028 $\chi^2$/NDF: 18125.4/15

Left Out: -40.167+/-0.014 $\chi^2$/NDF:120821.7/21

Right Out: -41.686+/-0.029 $\chi^2$/NDF: 36838.6/17

Left In: -39.975+/-0.014 $\chi^2$/NDF:99257.5/20

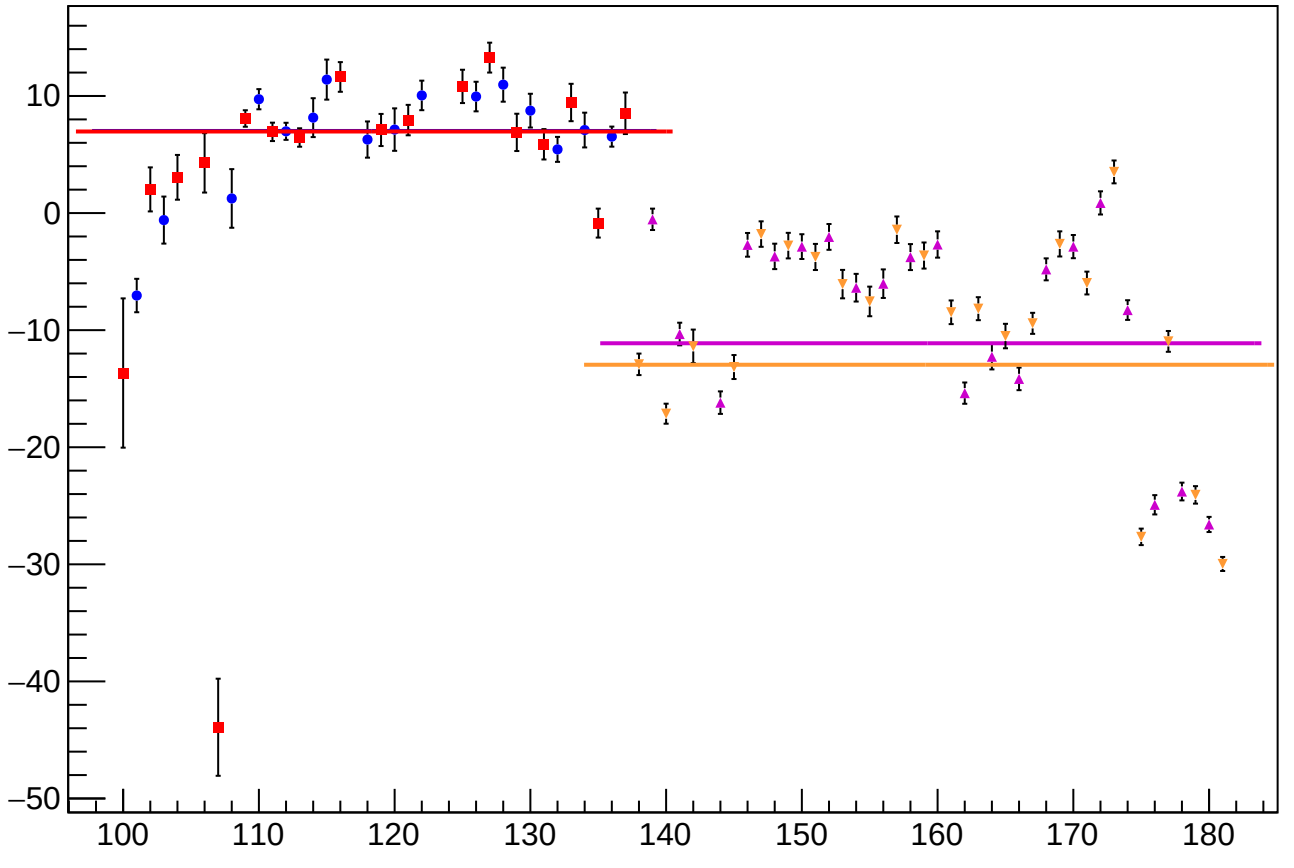
Left: -40.070+/-0.010 $\chi^2$/NDF: 220172.2/42

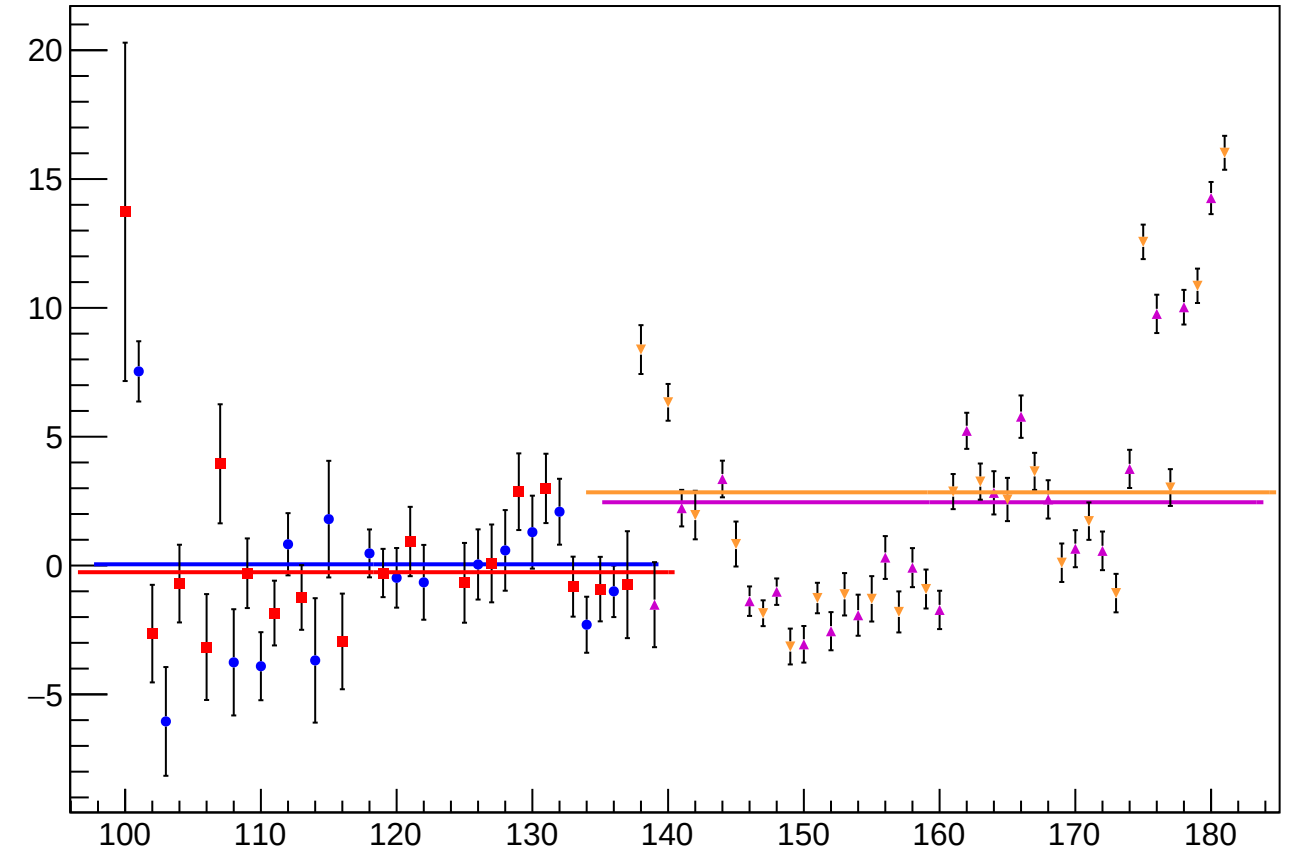
Right: -41.069+/-0.020 $\chi^2$/NDF: 55825.2/33

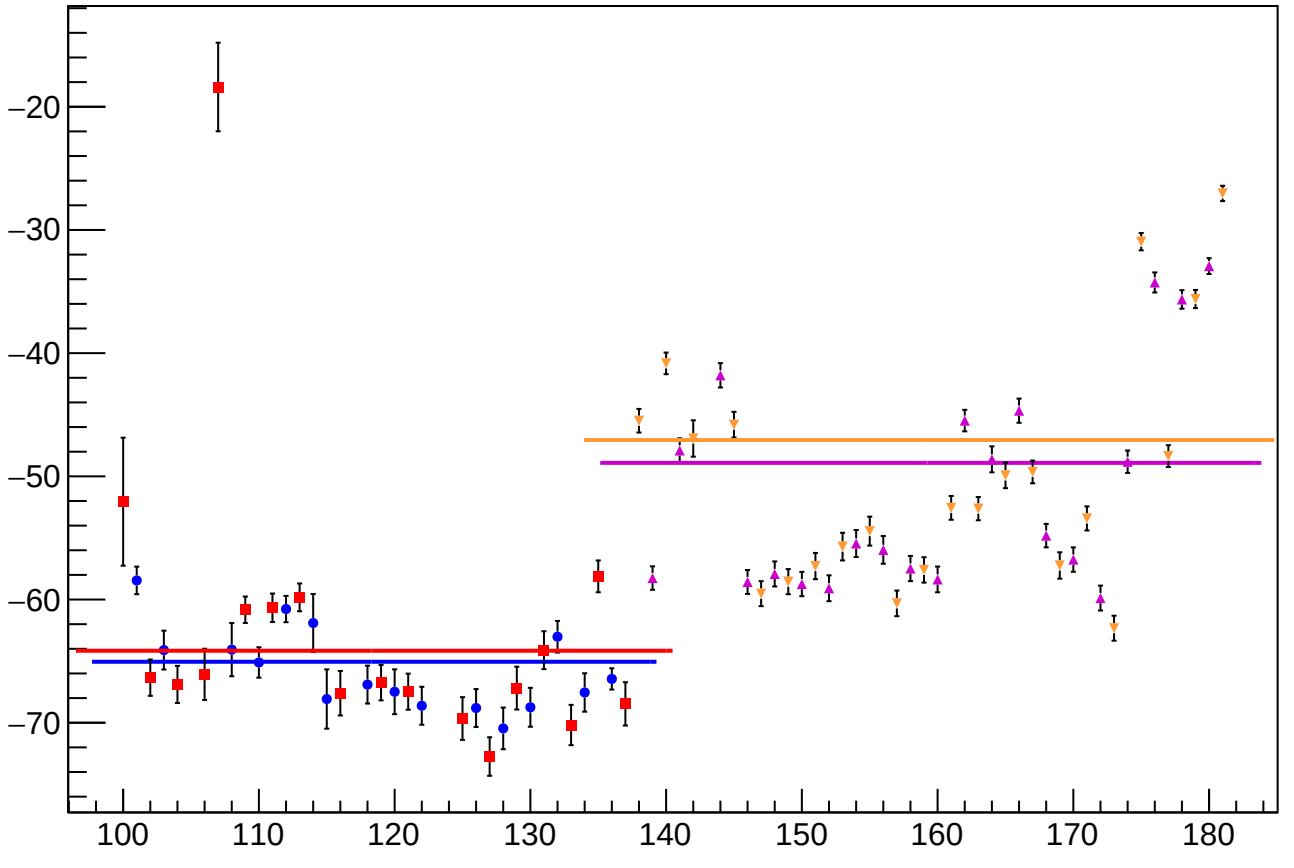
In: -40.077+/-0.013 $\chi^2$/NDF:117649.5/36

Out: -40.454+/-0.013 $\chi^2$/NDF:159847.0/39

All: -40.263+/-0.009 $\chi^2$/NDF: 277940.7/76


reg_asym_us_dd_diff_bpm1X_slope vs Slug, Sign Corrected
10
0
−10
−20
−30
−40
−50
100
110
120
130
140
150
160
170
180
Right In: 7.011+/-0.309 χ²/NDF: 156.3/15
Left Out: -12.955+/-0.203 χ²/NDF:2469.7/21
Right Out: 6.967+/-0.298 χ²/NDF: 266.0/17
Left In: -11.120+/-0.208 χ²/NDF:1977.6/20
Left: -12.060+/-0.145 χ²/NDF: 4487.4/42
Right: 6.988+/-0.215 χ²/NDF: 422.3/33
In: -5.488+/-0.172 χ²/NDF:4503.5/36
Out: -6.664+/-0.168 χ²/NDF:5789.9/39
All: -6.093+/-0.120 χ²/NDF: 10317.4/76


reg_asym_us_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
20
15
10
5
0
−5
100
110
120
130
140
150
160
170
180
Right In: 0.048+/-0.331 χ²/NDF: 75.0/15
Left Out: 2.842+/-0.154 χ²/NDF:1178.5/21
Right Out: -0.259+/-0.344 χ²/NDF: 27.5/17
Left In: 2.456+/-0.157 χ²/NDF:912.9/20
Left: 2.653+/-0.110 χ²/NDF: 2094.6/42
Right: -0.099+/-0.239 χ²/NDF: 102.9/33
In: 2.014+/-0.142 χ²/NDF:1031.0/36
Out: 2.326+/-0.140 χ²/NDF:1273.7/39
All: 2.172+/-0.100 χ²/NDF: 2307.1/76




Right In: -65.051+/-0.354 $\chi^2$/NDF: 92.8/15

Left Out: -47.051+/-0.200 $\chi^2$/NDF:3036.8/21

Right Out: -64.156+/-0.360 $\chi^2$/NDF: 303.7/17

Left In: -48.906+/-0.205 $\chi^2$/NDF:2253.4/20

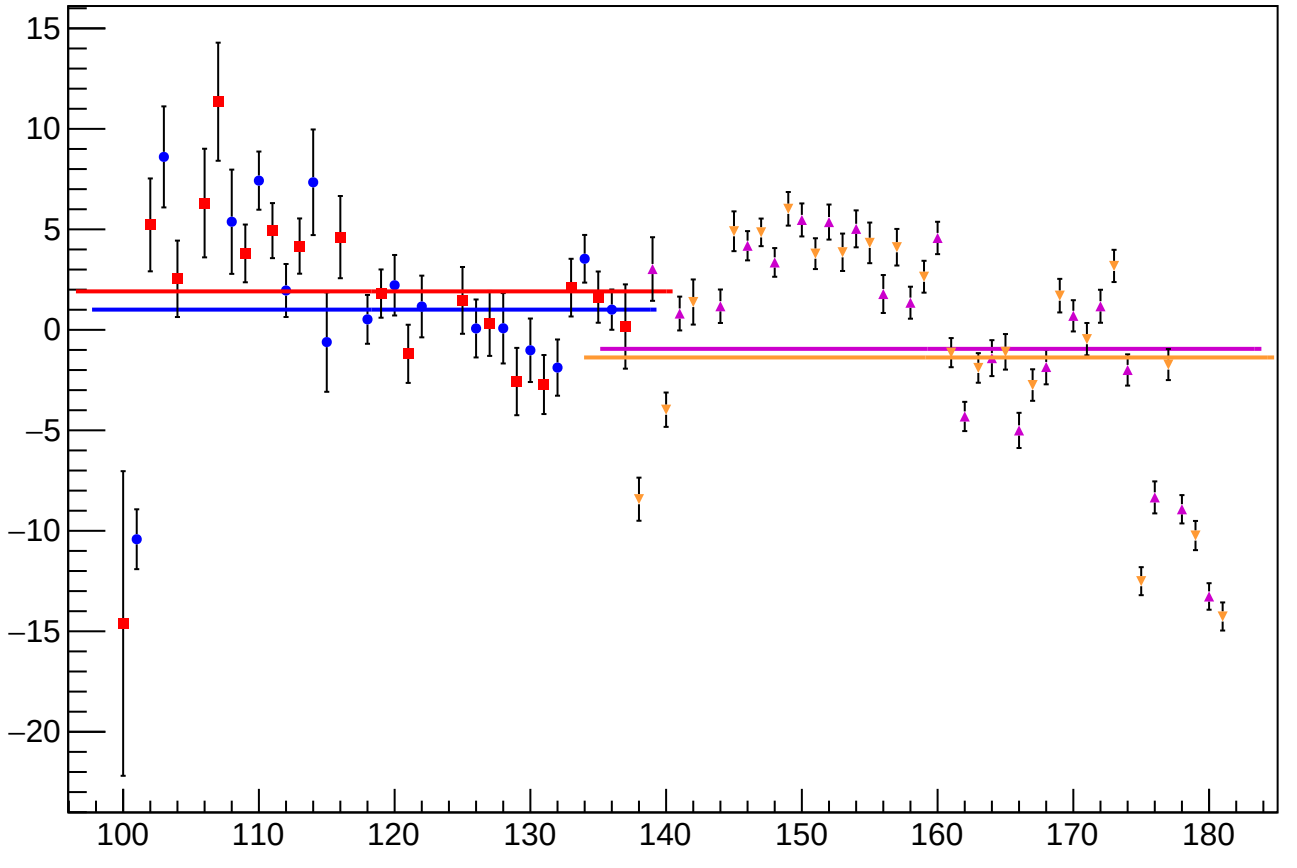
Left: -47.959+/-0.143 $\chi^2$/NDF: 5332.1/42

Right: -64.611+/-0.253 $\chi^2$/NDF: 399.6/33

In: -52.954+/-0.177 $\chi^2$/NDF:3904.9/36

Out: -51.093+/-0.175 $\chi^2$/NDF:5060.3/39

All: -52.012+/-0.125 $\chi^2$/NDF: 9020.9/76




Right In: 1.006+/-0.376 $\chi^2$/NDF: 109.2/15

Left Out: -1.374+/-0.174 $\chi^2$/NDF:1224.4/21

Right Out: 1.914+/-0.390 $\chi^2$/NDF: 54.5/17

Left In: -0.946+/-0.177 $\chi^2$/NDF:942.2/20

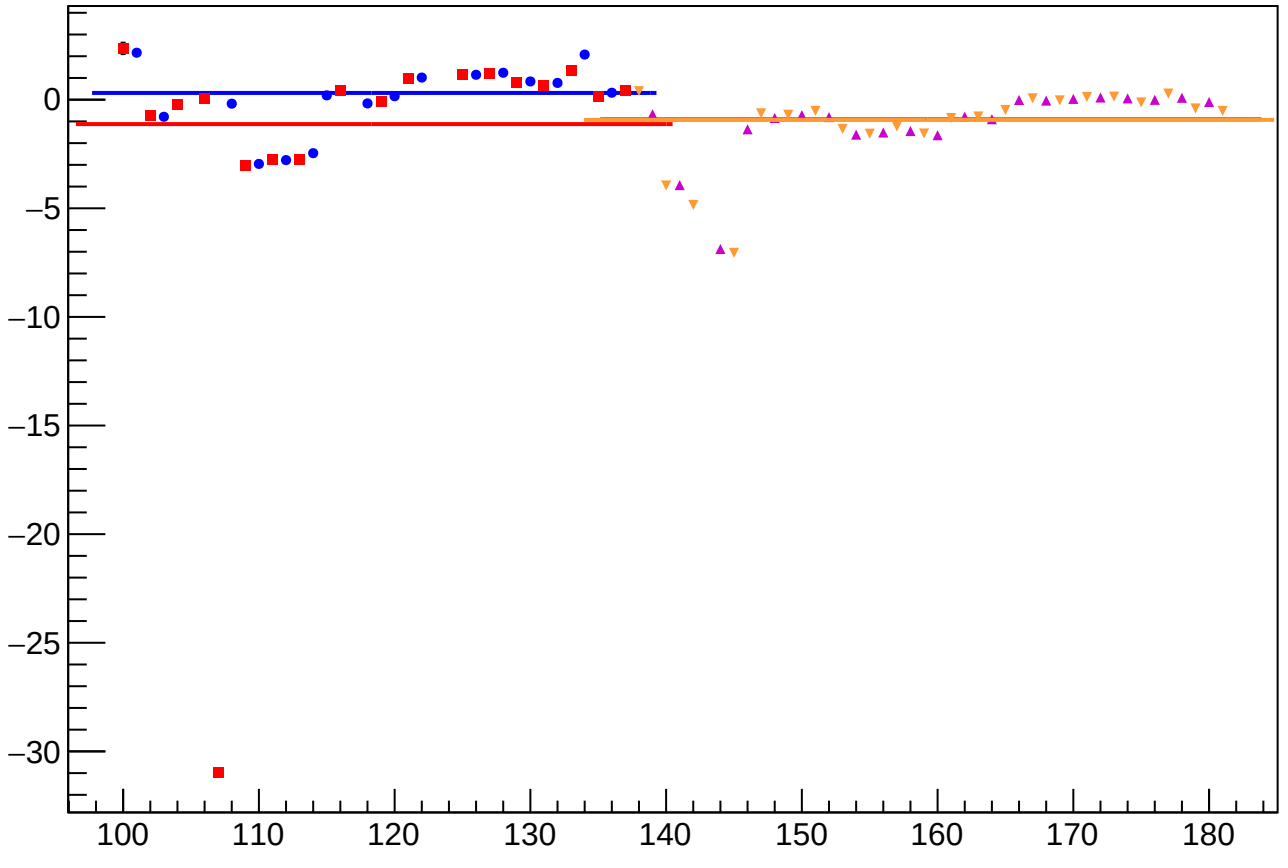
Left: -1.164+/-0.124 $\chi^2$/NDF: 2169.6/42

Right: 1.443+/-0.270 $\chi^2$/NDF: 166.5/33

In: -0.590+/-0.160 $\chi^2$/NDF:1073.6/36

Out: -0.828+/-0.159 $\chi^2$/NDF:1338.3/39

All: -0.710+/-0.113 $\chi^2$/NDF: 2412.9/76




Right In: 0.310+/-0.021 $\chi^2$/NDF: 4848.4/15

Left Out: -0.927+/-0.008 $\chi^2$/NDF:40388.3/21

Right Out: -1.124+/-0.022 $\chi^2$/NDF: 46347.9/17

Left In: -0.903+/-0.008 $\chi^2$/NDF:31266.3/20

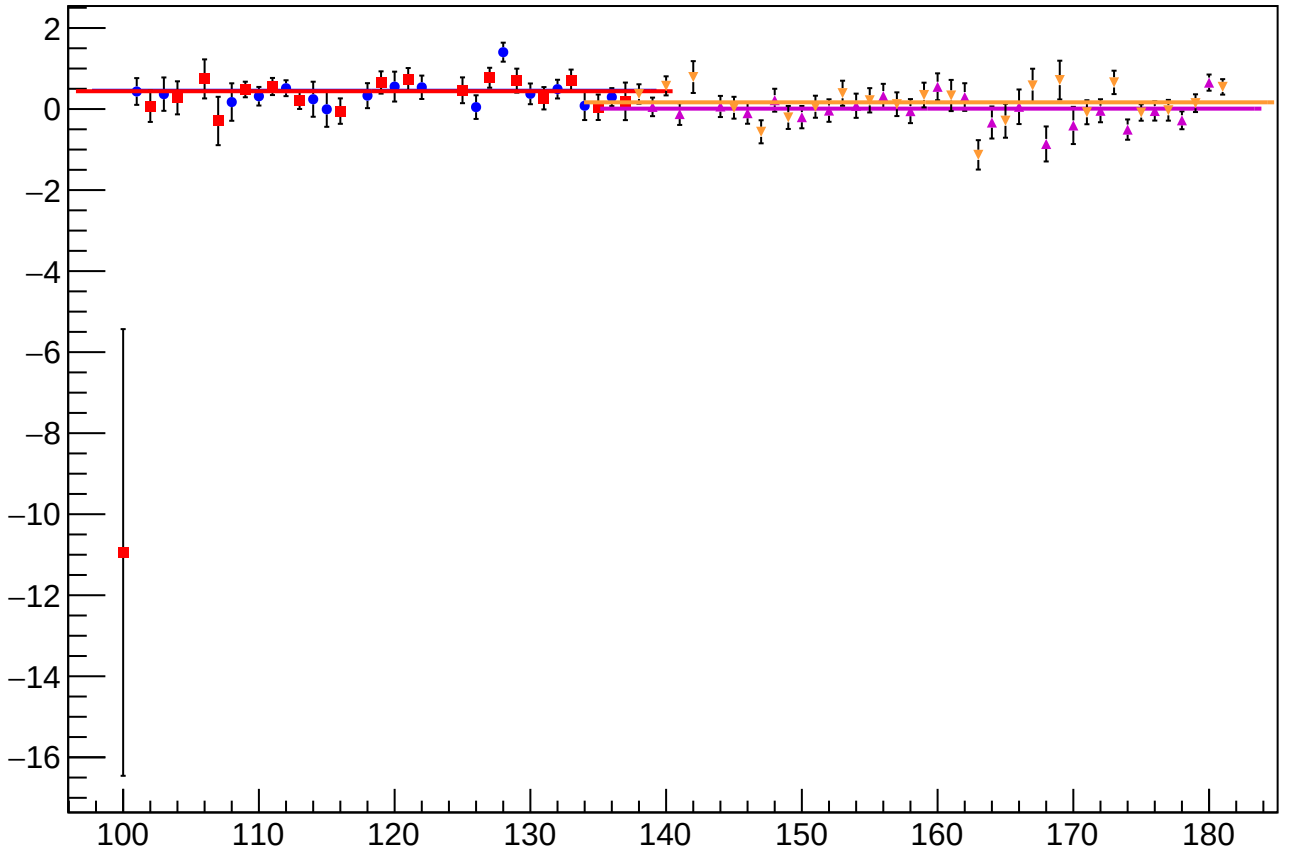
Left: -0.915+/-0.006 $\chi^2$/NDF: 71659.3/42

Right: -0.369+/-0.015 $\chi^2$/NDF: 53391.3/33

In: -0.755+/-0.007 $\chi^2$/NDF:39029.9/36

Out: -0.949+/-0.007 $\chi^2$/NDF:86805.9/39

All: -0.852+/-0.005 $\chi^2$/NDF: 126181.6/76




Right In: 0.452+/-0.071 $\chi^2$/NDF: 22.6/15

Left Out: 0.166+/-0.060 $\chi^2$/NDF:42.0/21

Right Out: 0.440+/-0.070 $\chi^2$/NDF: 18.5/17

Left In: 0.010+/-0.061 $\chi^2$/NDF:28.2/20

Left: 0.090+/-0.043 $\chi^2$/NDF: 73.6/42

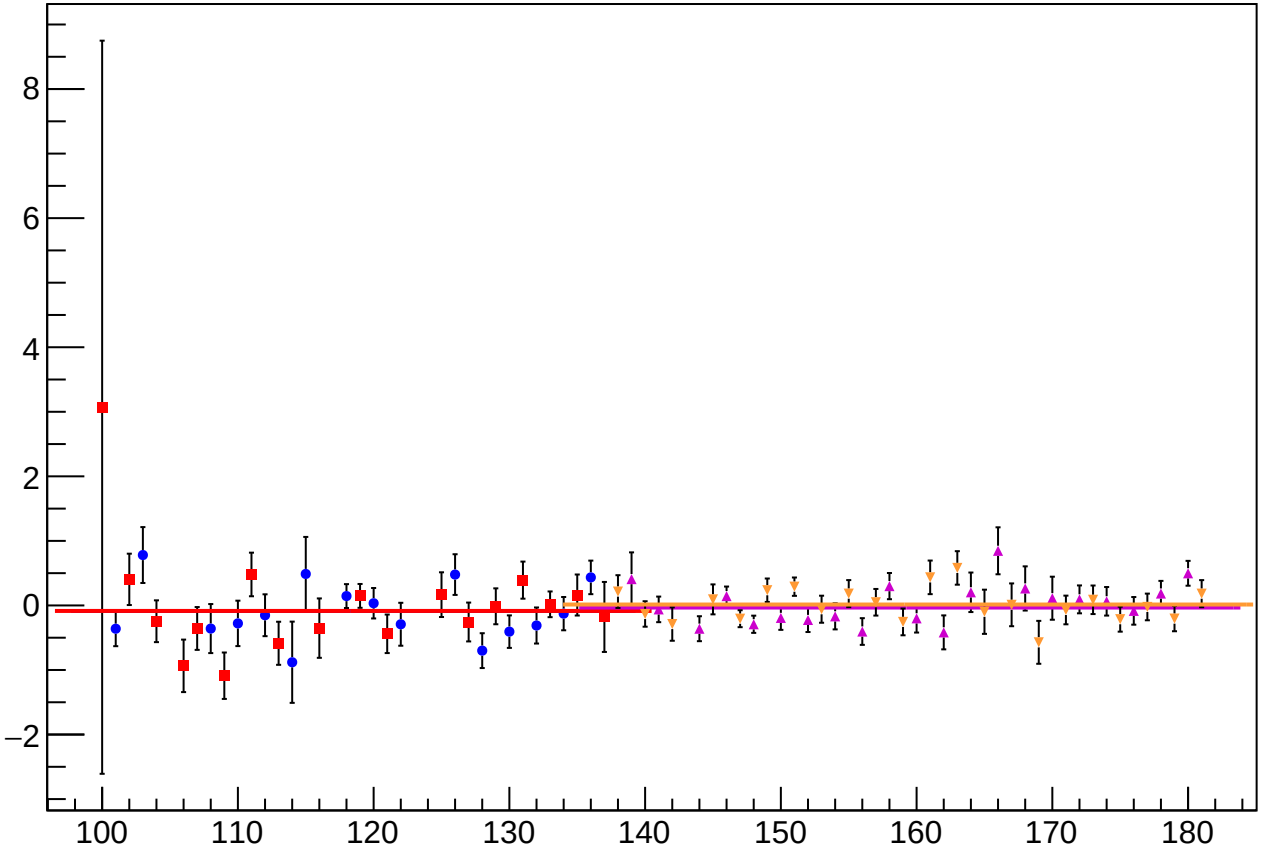
Right: 0.446+/-0.050 $\chi^2$/NDF: 41.2/33

In: 0.198+/-0.046 $\chi^2$/NDF:73.0/36

Out: 0.282+/-0.045 $\chi^2$/NDF:69.5/39

All: 0.241+/-0.032 $\chi^2$/NDF: 144.2/76

reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.086+/-0.073 $\chi^2$/NDF: 25.4/15

Left Out: 0.014+/-0.045 $\chi^2$/NDF:27.4/21

Right Out: -0.085+/-0.074 $\chi^2$/NDF: 27.9/17

Left In: -0.033+/-0.046 $\chi^2$/NDF:36.9/20

Left: -0.009+/-0.032 $\chi^2$/NDF: 64.8/42

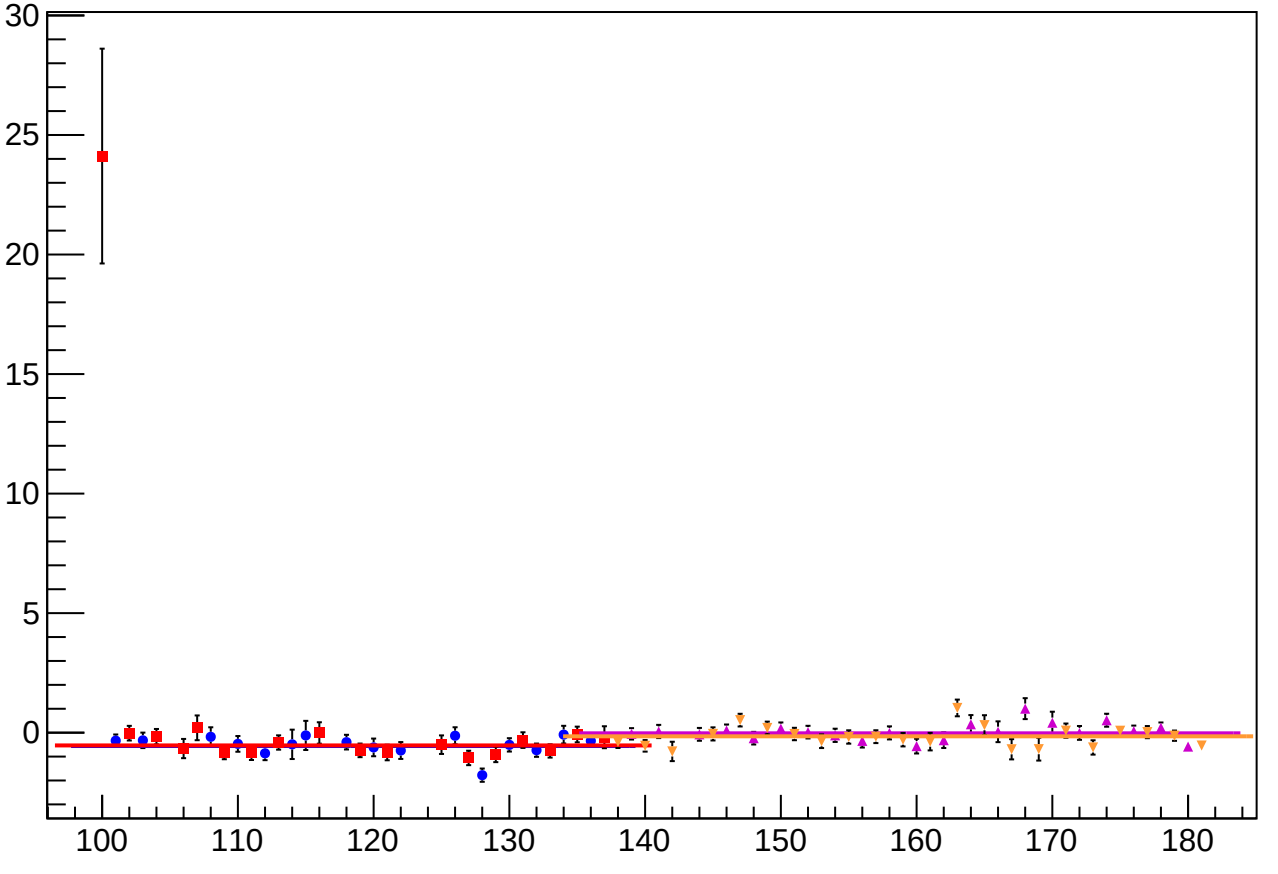
Right: -0.086+/-0.052 $\chi^2$/NDF: 53.3/33

In: -0.048+/-0.039 $\chi^2$/NDF:62.7/36

Out: -0.013+/-0.038 $\chi^2$/NDF:56.6/39

All: -0.030+/-0.027 $\chi^2$/NDF: 119.7/76

reg_asym_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -0.558+/-0.080 $\chi^2$/NDF: 28.3/15

Left Out: -0.152+/-0.059 $\chi^2$/NDF:40.1/21

Right Out: -0.534+/-0.081 $\chi^2$/NDF: 49.2/17

Left In: -0.027+/-0.060 $\chi^2$/NDF:27.4/20

Left: -0.091+/-0.042 $\chi^2$/NDF: 69.7/42

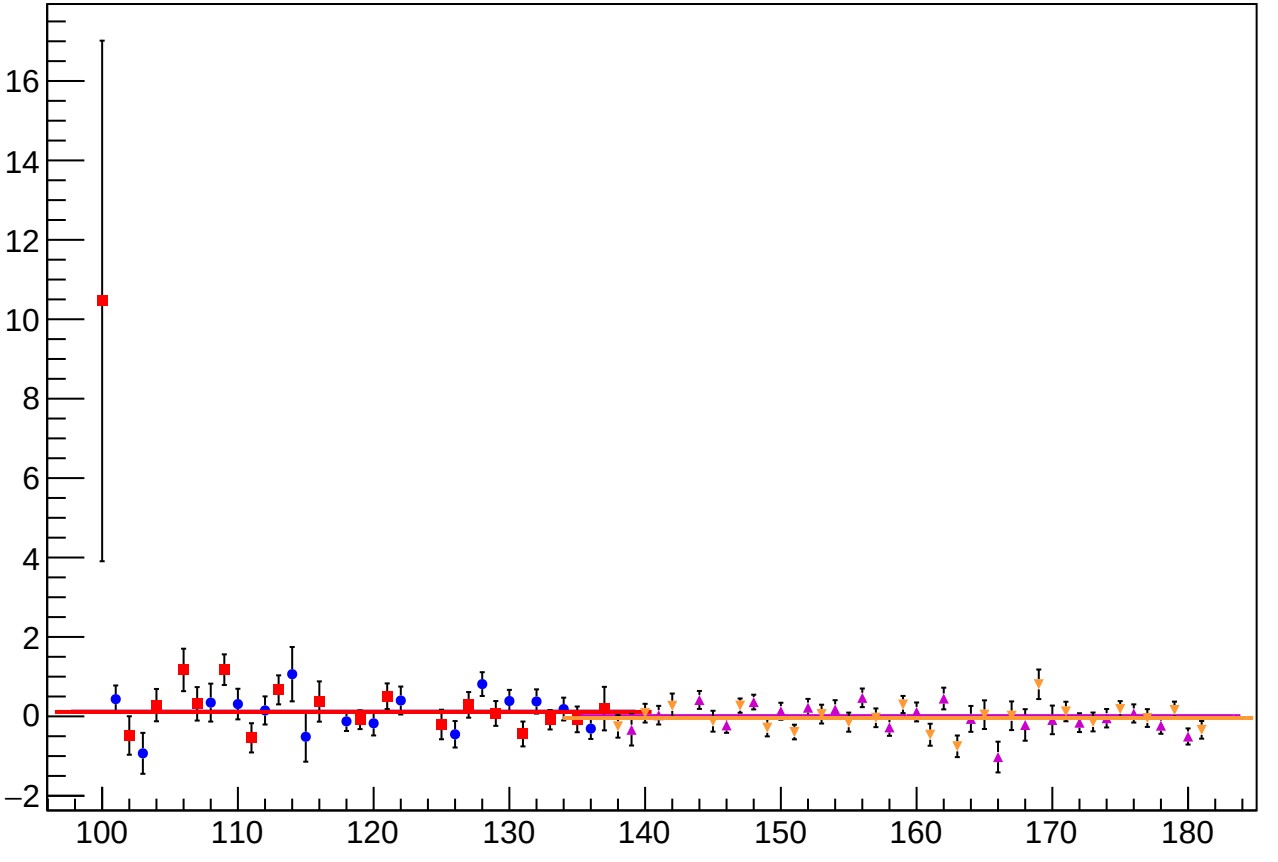
Right: -0.546+/-0.057 $\chi^2$/NDF: 77.6/33

In: -0.221+/-0.048 $\chi^2$/NDF:84.0/36

Out: -0.285+/-0.048 $\chi^2$/NDF:103.8/39

All: -0.253+/-0.034 $\chi^2$/NDF: 188.7/76

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 0.118+/-0.084 $\chi^2$/NDF: 23.6/15

Left Out: -0.041+/-0.051 $\chi^2$/NDF:31.6/21

Right Out: 0.111+/-0.085 $\chi^2$/NDF: 29.0/17

Left In: 0.005+/-0.052 $\chi^2$/NDF:35.3/20

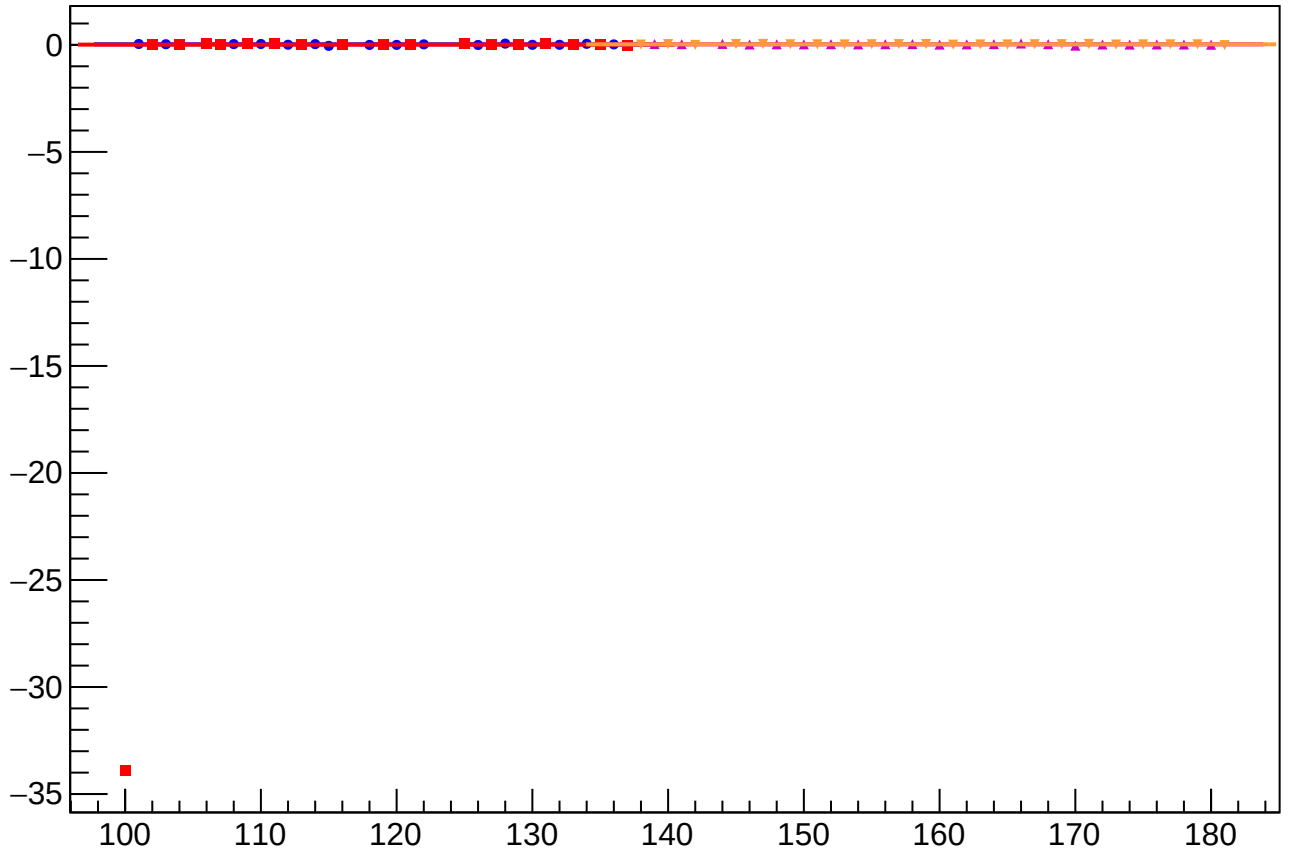
Left: -0.018+/-0.037 $\chi^2$/NDF: 67.3/42

Right: 0.115+/-0.060 $\chi^2$/NDF: 52.6/33

In: 0.037+/-0.044 $\chi^2$/NDF:60.2/36

Out: -0.000+/-0.044 $\chi^2$/NDF:63.0/39

All: 0.018+/-0.031 $\chi^2$/NDF: 123.5/76




Right In: 0.027+/-0.005 $\chi^2$/NDF: 14.7/15

Left Out: 0.026+/-0.002 $\chi^2$/NDF:28.6/21

Right Out: 0.012+/-0.005 $\chi^2$/NDF: 22262.0/17

Left In: 0.027+/-0.002 $\chi^2$/NDF:37.6/20

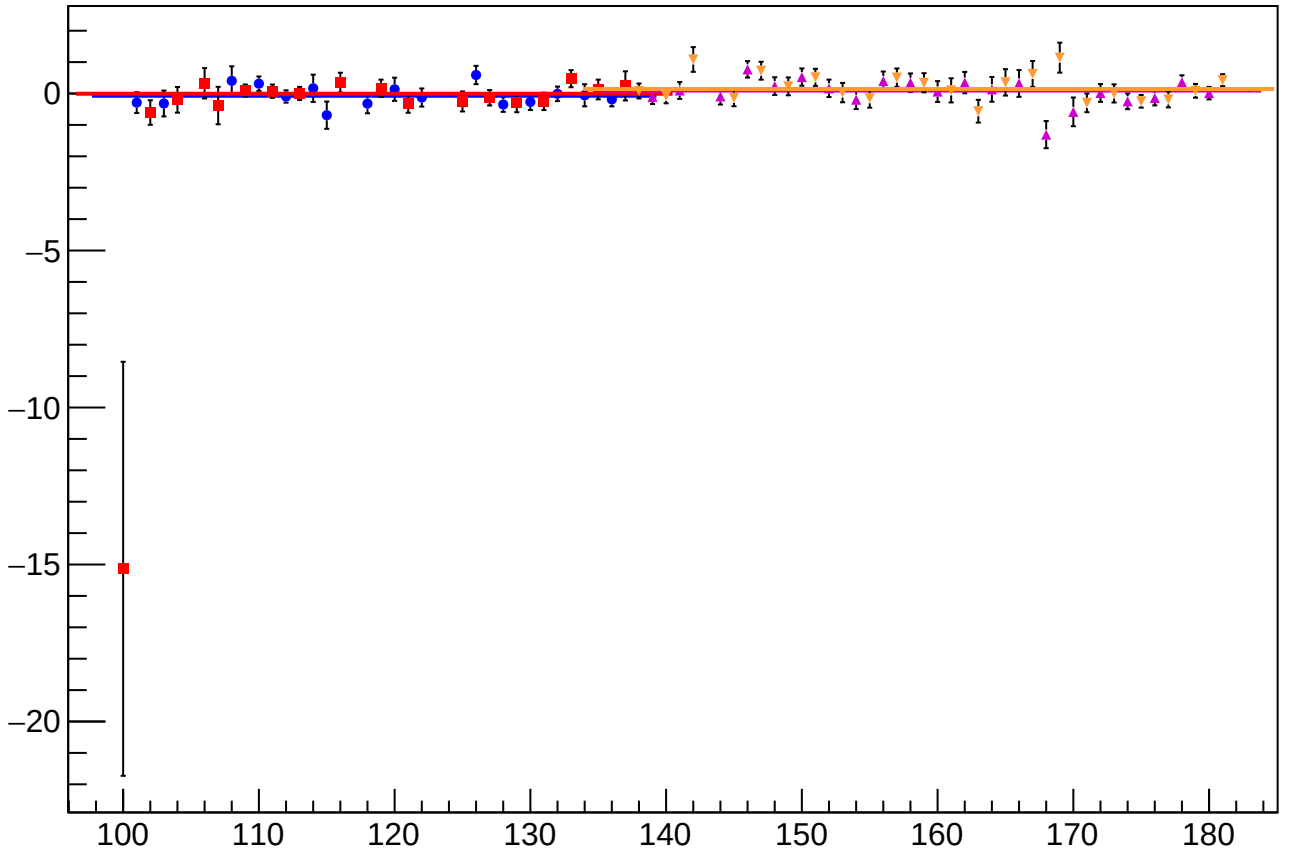
Left: 0.026+/-0.002 $\chi^2$/NDF: 66.4/42

Right: 0.020+/-0.003 $\chi^2$/NDF: 22281.9/33

In: 0.027+/-0.002 $\chi^2$/NDF:52.2/36

Out: 0.023+/-0.002 $\chi^2$/NDF:22297.3/39

All: 0.025+/-0.001 $\chi^2$/NDF: 22351.4/76




Right In: -0.070+/-0.071 $\chi^2$/NDF: 15.5/15

Left Out: 0.144+/-0.060 $\chi^2$/NDF:36.8/21

Right Out: -0.007+/-0.070 $\chi^2$/NDF: 18.1/17

Left In: 0.094+/-0.061 $\chi^2$/NDF:31.5/20

Left: 0.120+/-0.043 $\chi^2$/NDF: 68.7/42

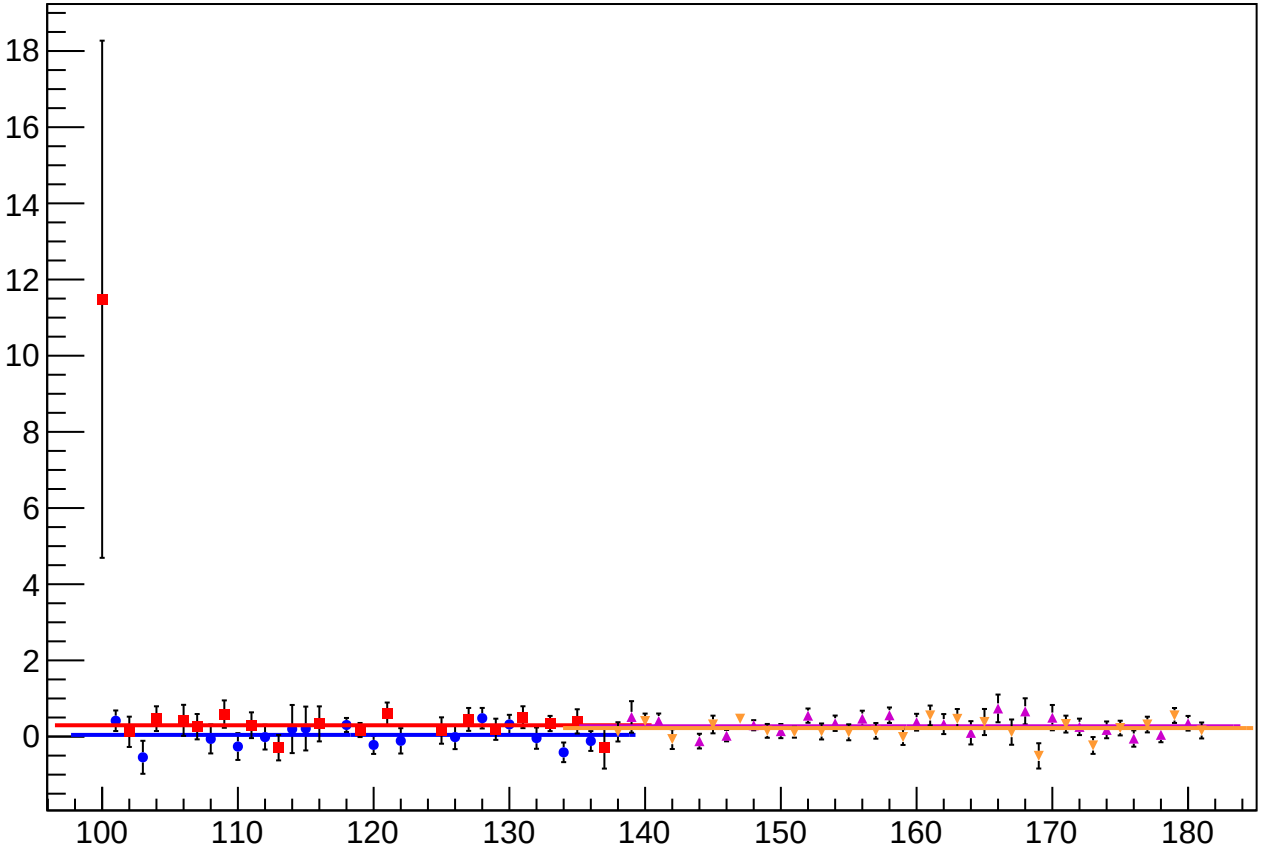
Right: -0.038+/-0.050 $\chi^2$/NDF: 34.1/33

In: 0.024+/-0.046 $\chi^2$/NDF:50.1/36

Out: 0.080+/-0.045 $\chi^2$/NDF:57.7/39

All: 0.053+/-0.032 $\chi^2$/NDF: 108.5/76

# reg_asym_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.044+/-0.073 $\chi^2$/NDF: 15.7/15

Left Out: 0.222+/-0.045 $\chi^2$/NDF:23.8/21

Right Out: 0.296+/-0.074 $\chi^2$/NDF: 11.0/17

Left In: 0.270+/-0.046 $\chi^2$/NDF:21.5/20

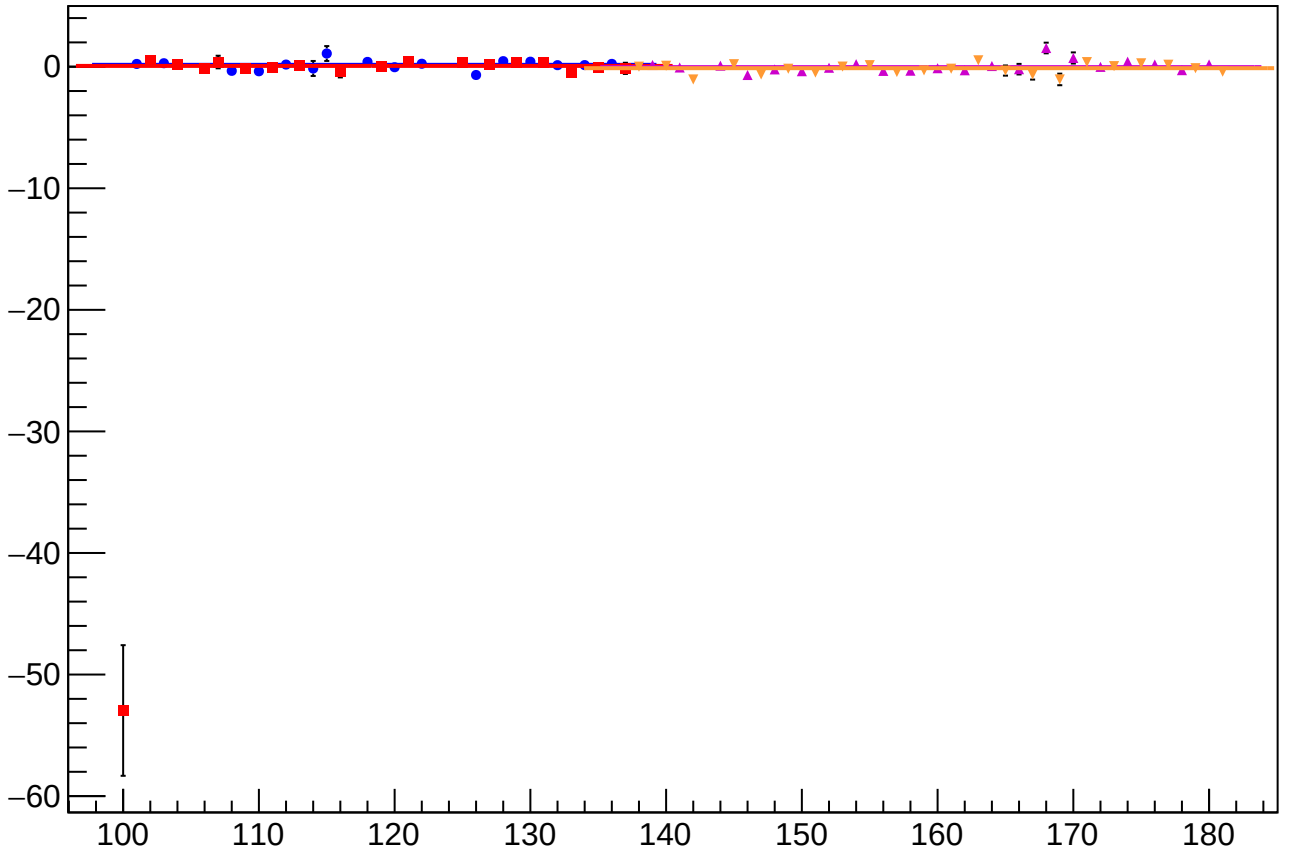
Left: 0.246+/-0.032 $\chi^2$/NDF: 45.9/42

Right: 0.169+/-0.052 $\chi^2$/NDF: 32.6/33

In: 0.206+/-0.039 $\chi^2$/NDF:44.1/36

Out: 0.242+/-0.038 $\chi^2$/NDF:35.6/39

All: 0.225+/-0.027 $\chi^2$/NDF: 80.1/76




Right In: 0.154+/-0.080 $\chi^2$/NDF: 15.6/15

Left Out: -0.121+/-0.059 $\chi^2$/NDF:35.4/21

Right Out: 0.065+/-0.081 $\chi^2$/NDF: 109.3/17

Left In: -0.034+/-0.060 $\chi^2$/NDF:35.4/20

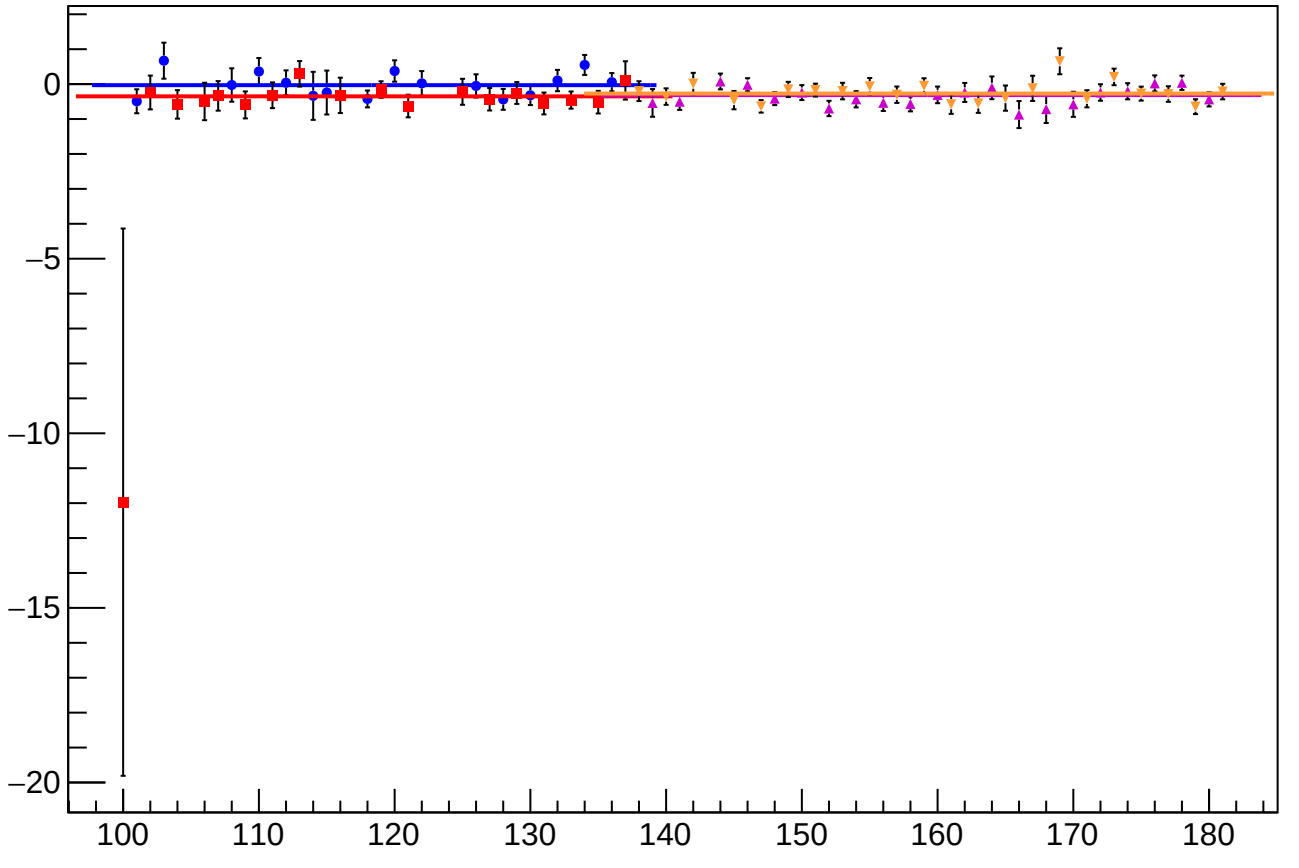
Left: -0.079+/-0.042 $\chi^2$/NDF: 71.9/42

Right: 0.110+/-0.057 $\chi^2$/NDF: 125.5/33

In: 0.034+/-0.048 $\chi^2$/NDF:54.5/36

Out: -0.056+/-0.048 $\chi^2$/NDF:148.2/39

All: -0.012+/-0.034 $\chi^2$/NDF: 204.6/76




Right In: -0.030+/-0.084 $\chi^2$/NDF: 16.8/15

Left Out: -0.271+/-0.051 $\chi^2$/NDF:24.5/21

Right Out: -0.350+/-0.085 $\chi^2$/NDF: 9.4/17

Left In: -0.314+/-0.052 $\chi^2$/NDF:22.3/20

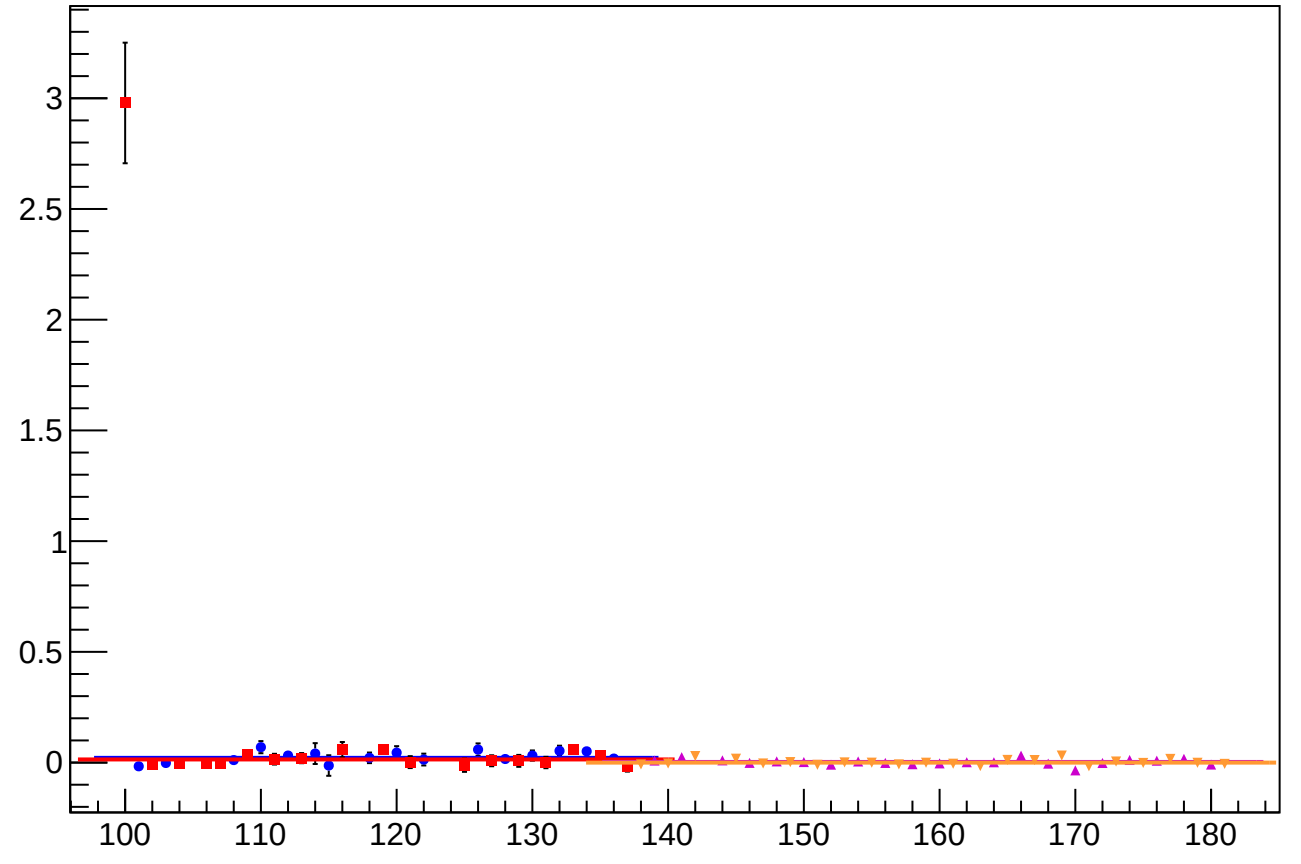
Left: -0.292+/-0.037 $\chi^2$/NDF: 47.2/42

Right: -0.188+/-0.060 $\chi^2$/NDF: 33.4/33

In: -0.235+/-0.044 $\chi^2$/NDF:47.4/36

Out: -0.292+/-0.044 $\chi^2$/NDF:34.6/39

All: -0.264+/-0.031 $\chi^2$/NDF: 82.8/76




Right In: 0.021+/-0.005 $\chi^2$/NDF: 22.5/15

Left Out: -0.000+/-0.002 $\chi^2$/NDF:21.7/21

Right Out: 0.014+/-0.005 $\chi^2$/NDF: 140.9/17

Left In: 0.003+/-0.002 $\chi^2$/NDF:21.9/20

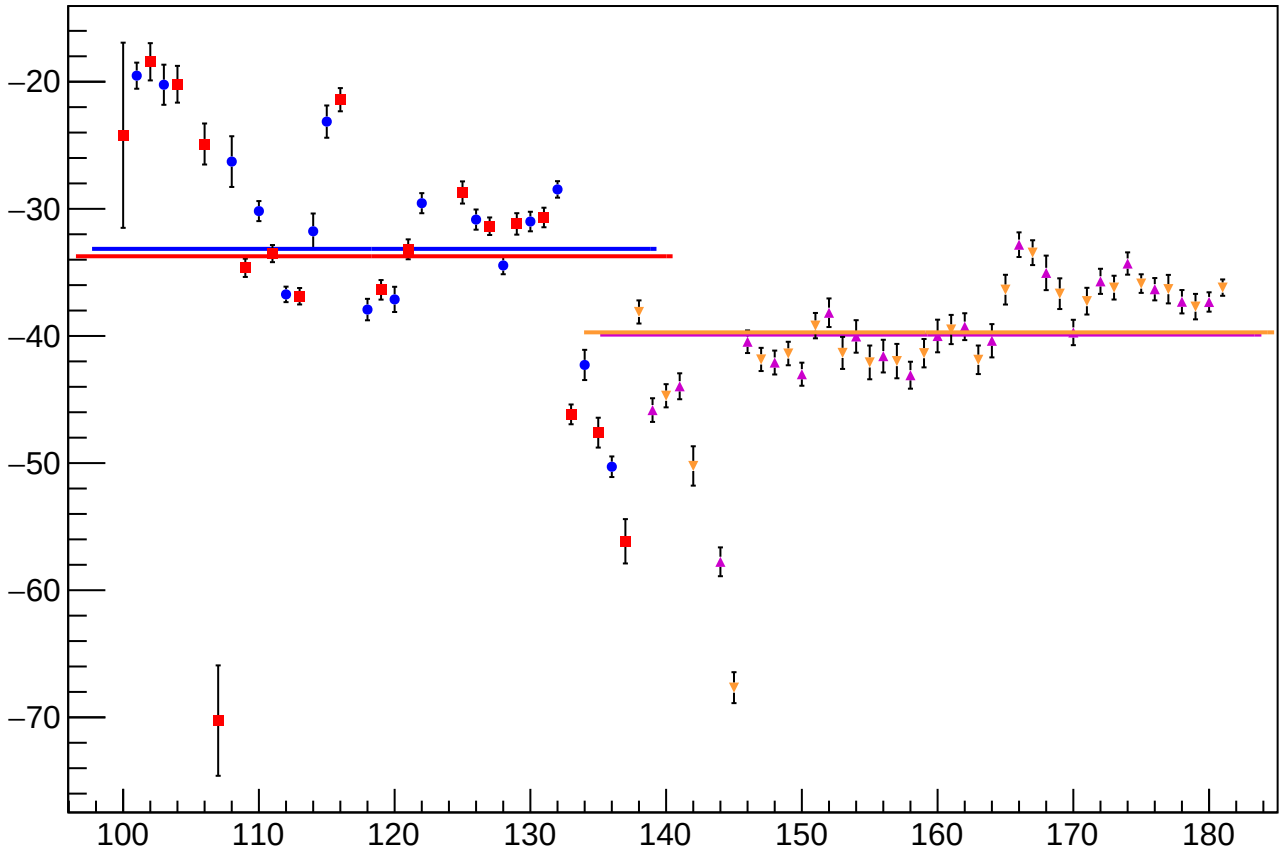
Left: 0.001+/-0.002 $\chi^2$/NDF: 44.5/42

Right: 0.018+/-0.003 $\chi^2$/NDF: 164.5/33

In: 0.006+/-0.002 $\chi^2$/NDF:56.4/36

Out: 0.002+/-0.002 $\chi^2$/NDF:169.5/39

All: 0.004+/-0.001 $\chi^2$/NDF: 227.6/76




Right In: -33.148+/-0.218 $\chi^2$/NDF: 1013.9/15

Left Out: -39.716+/-0.215 $\chi^2$/NDF:774.7/21

Right Out: -33.730+/-0.215 $\chi^2$/NDF: 1148.4/17

Left In: -39.893+/-0.220 $\chi^2$/NDF:496.7/20

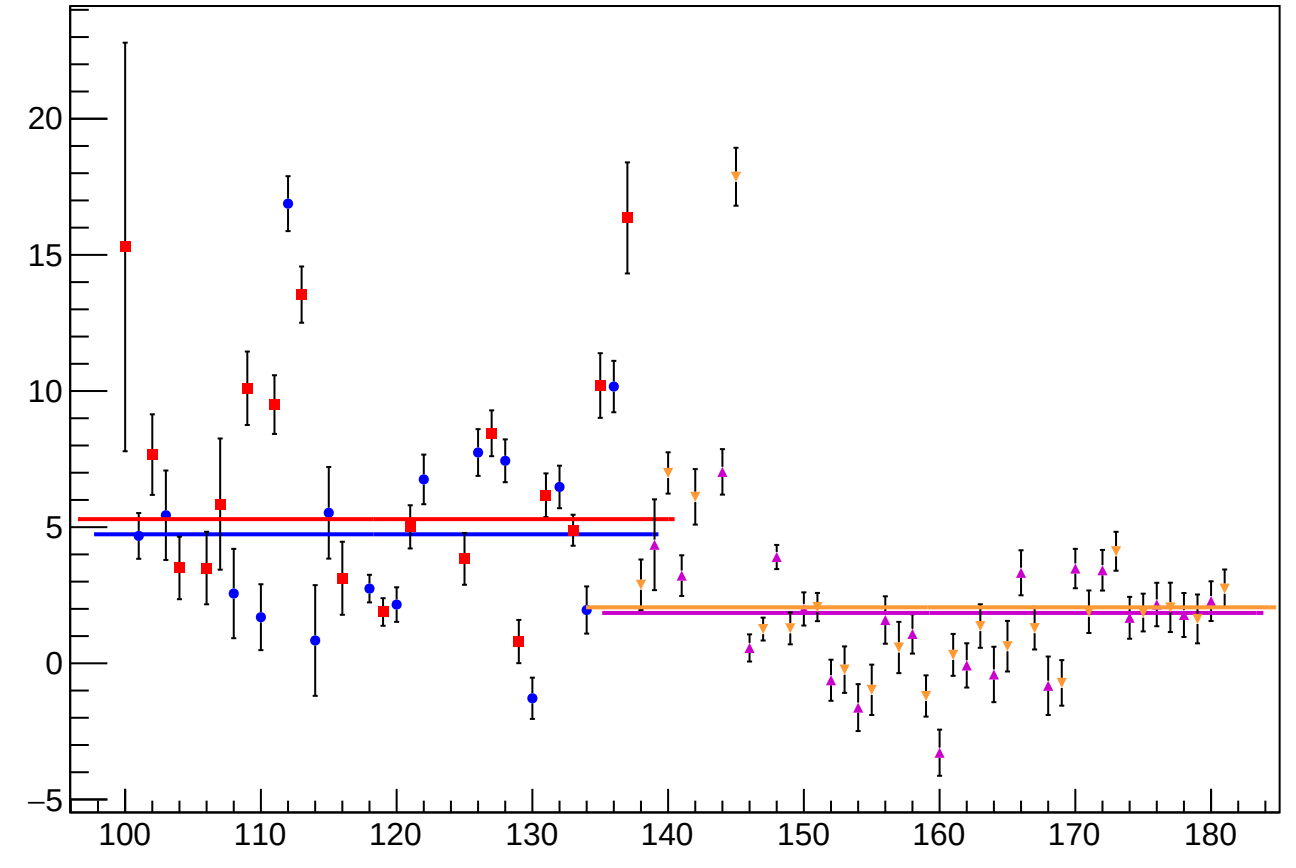
Left: -39.803+/-0.154 $\chi^2$/NDF: 1271.7/42

Right: -33.443+/-0.153 $\chi^2$/NDF: 2166.0/33

In: -36.486+/-0.155 $\chi^2$/NDF:1984.6/36

Out: -36.717+/-0.152 $\chi^2$/NDF:2310.3/39

All: -36.604+/-0.109 $\chi^2$/NDF: 4296.0/76




Right In: 4.738+/-0.219 $\chi^2$/NDF: 329.6/15

Left Out: 2.056+/-0.158 $\chi^2$/NDF:353.9/21

Right Out: 5.295+/-0.223 $\chi^2$/NDF: 245.0/17

Left In: 1.850+/-0.162 $\chi^2$/NDF:167.2/20

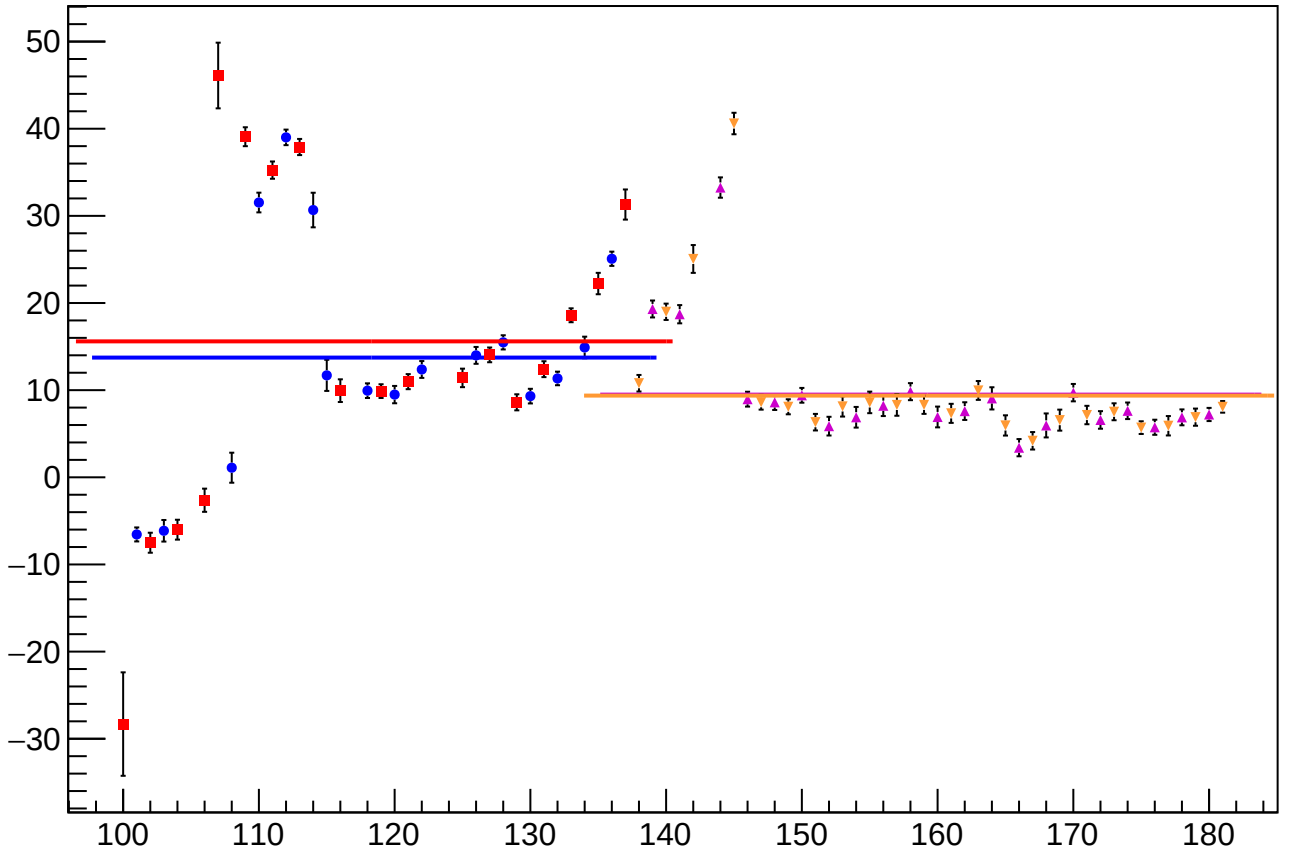
Left: 1.956+/-0.113 $\chi^2$/NDF: 521.9/42

Right: 5.012+/-0.156 $\chi^2$/NDF: 577.8/33

In: 2.867+/-0.130 $\chi^2$/NDF:609.2/36

Out: 3.136+/-0.129 $\chi^2$/NDF:739.0/39

All: 3.003+/-0.092 $\chi^2$/NDF: 1350.4/76




Right In: 13.738+/-0.247 $\chi^2$/NDF: 2349.9/15

Left Out: 9.377+/-0.213 $\chi^2$/NDF:960.4/21

Right Out: 15.599+/-0.250 $\chi^2$/NDF: 2826.3/17

Left In: 9.487+/-0.217 $\chi^2$/NDF:714.3/20

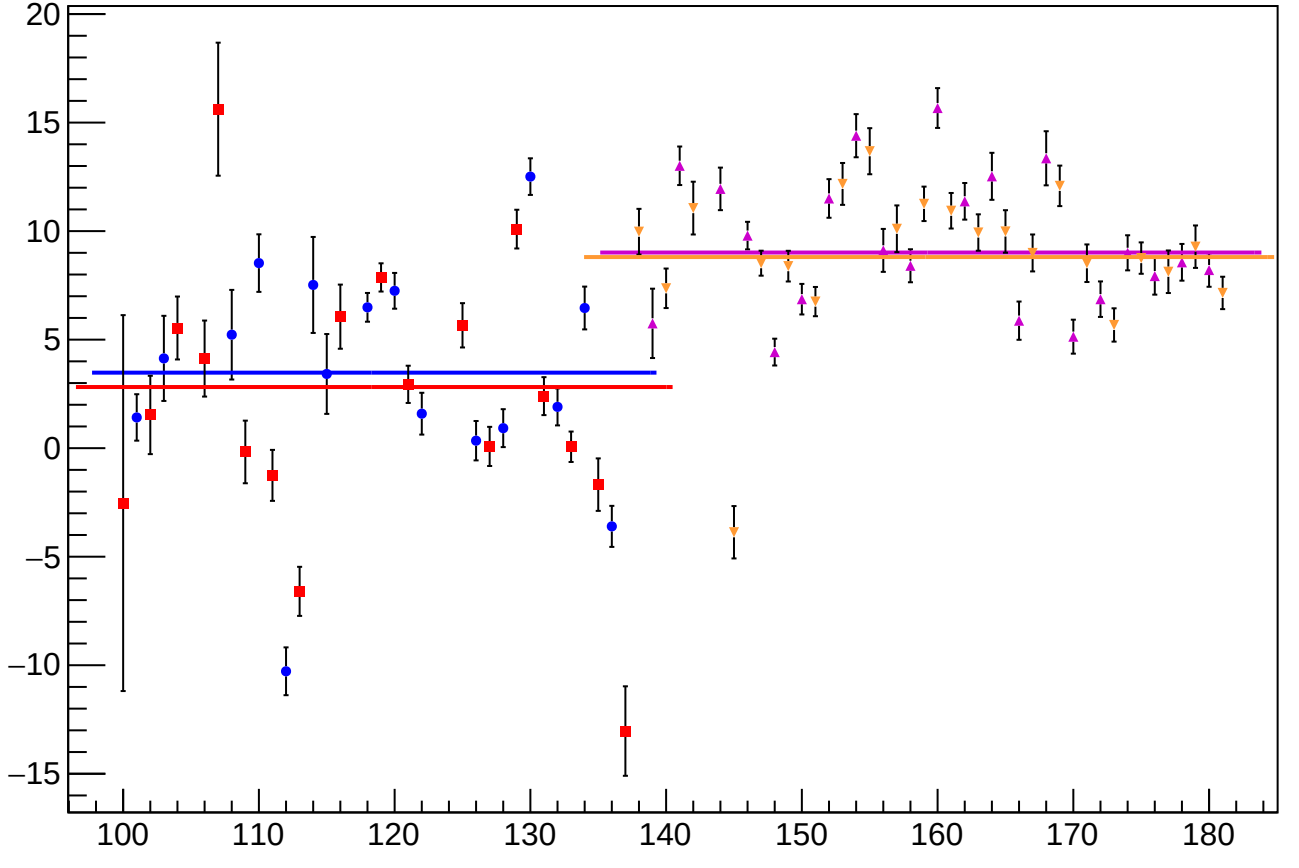
Left: 9.431+/-0.152 $\chi^2$/NDF: 1674.8/42

Right: 14.656+/-0.176 $\chi^2$/NDF: 5204.2/33

In: 11.337+/-0.163 $\chi^2$/NDF:3231.8/36

Out: 11.986+/-0.162 $\chi^2$/NDF:4146.2/39

All: 11.663+/-0.115 $\chi^2$/NDF: 7386.0/76




Right In: 3.479+/-0.254 $\chi^2$/NDF: 427.6/15

Left Out: 8.804+/-0.181 $\chi^2$/NDF:216.6/21

Right Out: 2.817+/-0.257 $\chi^2$/NDF: 345.3/17

Left In: 9.014+/-0.185 $\chi^2$/NDF:267.5/20

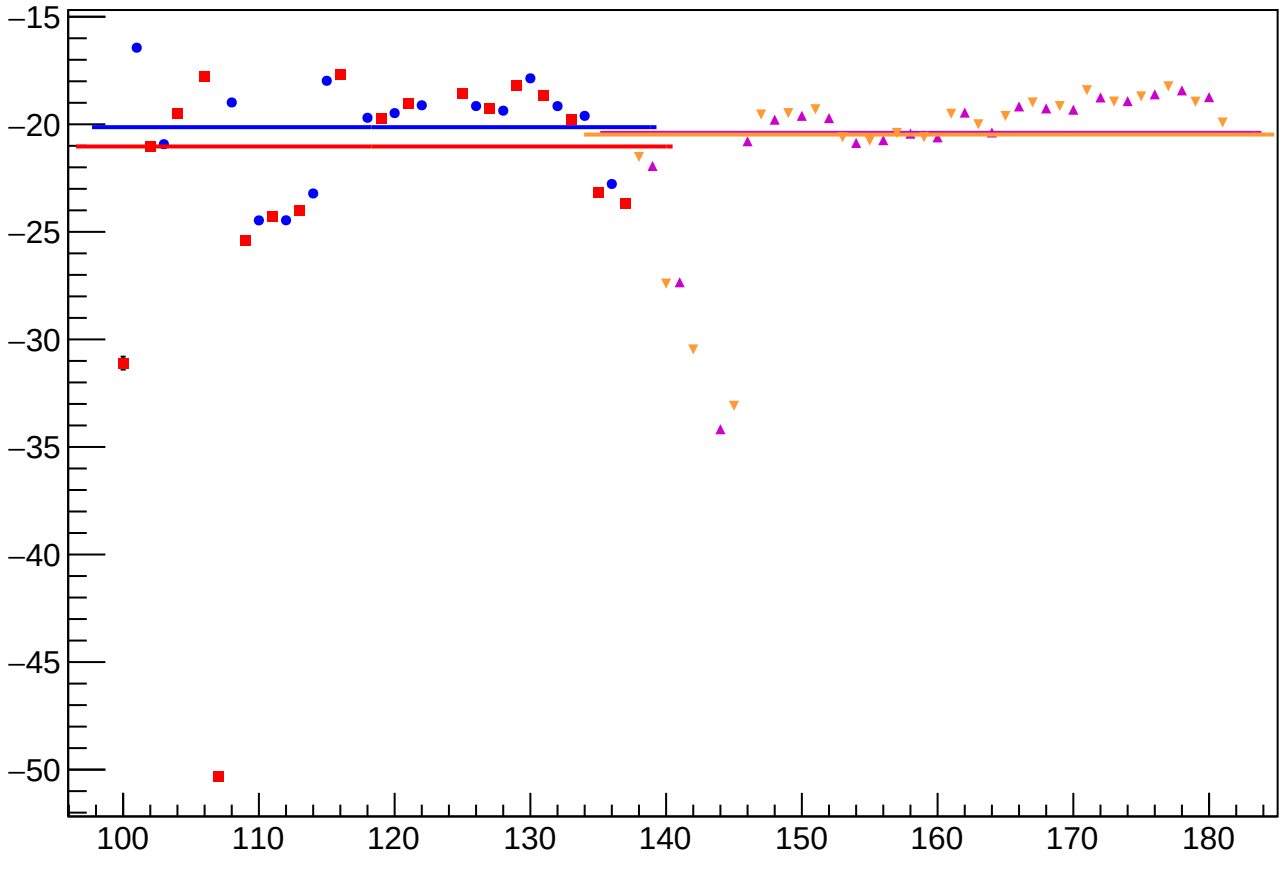
Left: 8.907+/-0.129 $\chi^2$/NDF: 484.8/42

Right: 3.153+/-0.181 $\chi^2$/NDF: 776.3/33

In: 7.097+/-0.149 $\chi^2$/NDF:1006.3/36

Out: 6.817+/-0.148 $\chi^2$/NDF:923.8/39

All: 6.956+/-0.105 $\chi^2$/NDF: 1931.8/76




Right In: -20.133+/-0.016 $\chi^2$/NDF: 19831.2/15

Left Out: -20.477+/-0.008 $\chi^2$/NDF:137703.1/21

Right Out: -21.031+/-0.016 $\chi^2$/NDF: 57523.6/17

Left In: -20.398+/-0.008 $\chi^2$/NDF:113131.2/20

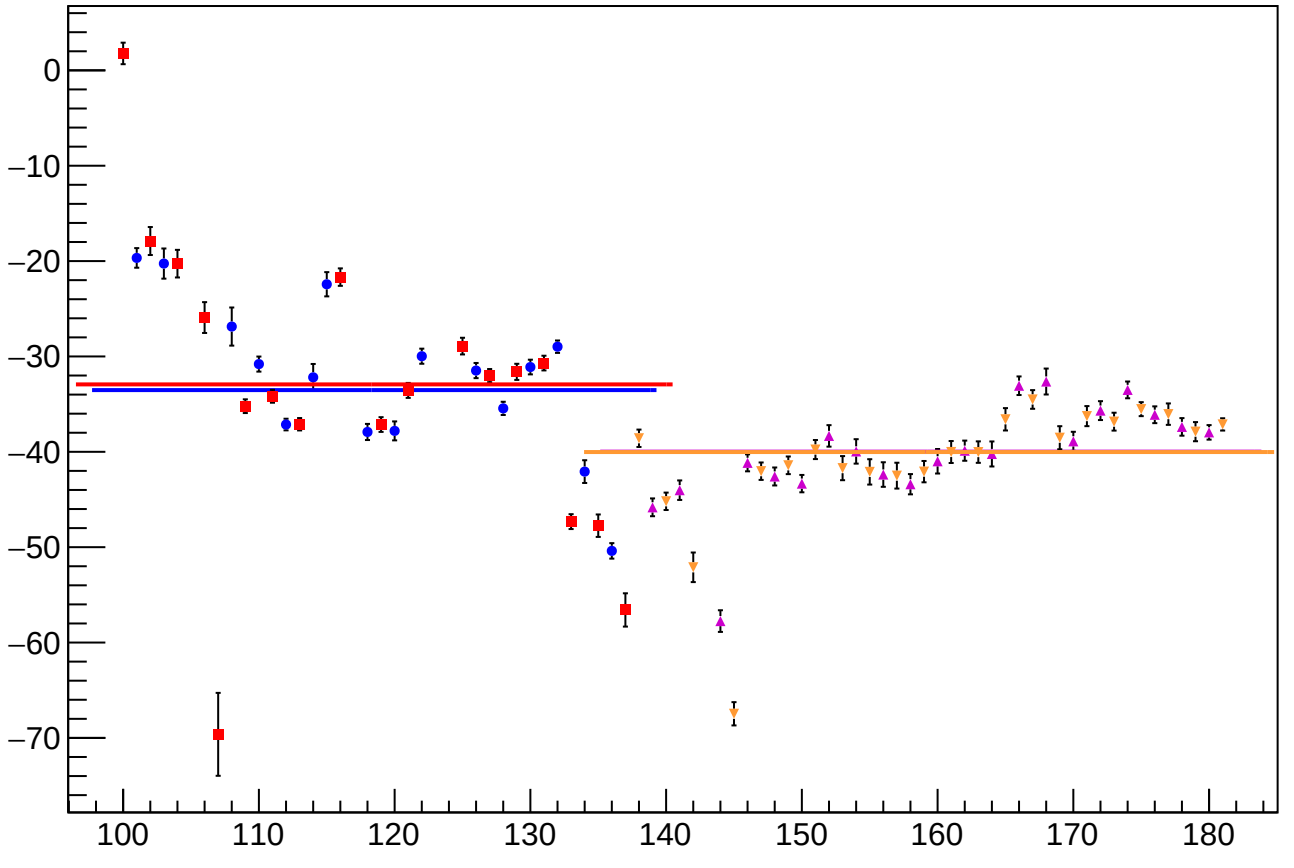
Left: -20.437+/-0.006 $\chi^2$/NDF: 250878.4/42

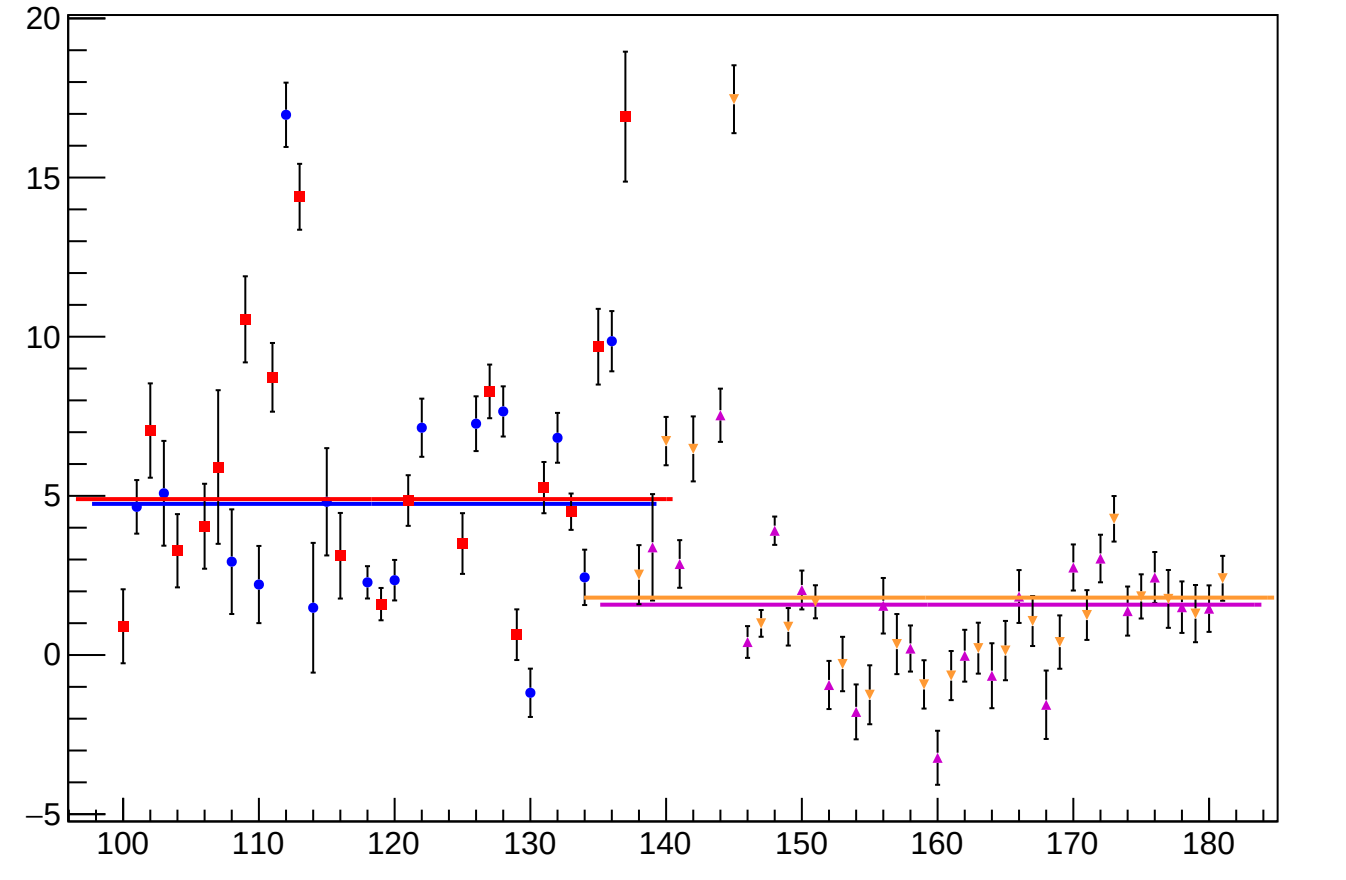
Right: -20.570+/-0.011 $\chi^2$/NDF: 78882.9/33

In: -20.342+/-0.007 $\chi^2$/NDF:133178.9/36

Out: -20.590+/-0.007 $\chi^2$/NDF:196128.8/39

All: -20.465+/-0.005 $\chi^2$/NDF: 329866.3/76


reg_asym_left_dd_diff_bpm1X_slope vs Slug, Sign Corrected
0
−10
−20
−30
−40
−50
−60
−70
100
110
120
130
140
150
160
170
180
Right In: -33.528+/-0.218 χ²/NDF: 1008.7/15
Left Out: -40.024+/-0.216 χ²/NDF:760.5/21
Right Out: -32.931+/-0.212 χ²/NDF: 2170.0/17
Left In: -39.981+/-0.221 χ²/NDF:527.3/20
Left: -40.003+/-0.154 χ²/NDF: 1287.9/42
Right: -33.220+/-0.152 χ²/NDF: 3182.6/33
In: -36.723+/-0.155 χ²/NDF:1968.0/36
Out: -36.409+/-0.151 χ²/NDF:3481.6/39
All: -36.562+/-0.108 χ²/NDF: 5451.6/76




Right In: 4.748+/-0.220 $\chi^2$/NDF: 325.7/15

Left Out: 1.803+/-0.158 $\chi^2$/NDF:351.6/21

Right Out: 4.898+/-0.220 $\chi^2$/NDF: 273.1/17

Left In: 1.581+/-0.162 $\chi^2$/NDF:175.1/20

Left: 1.695+/-0.113 $\chi^2$/NDF: 527.7/42

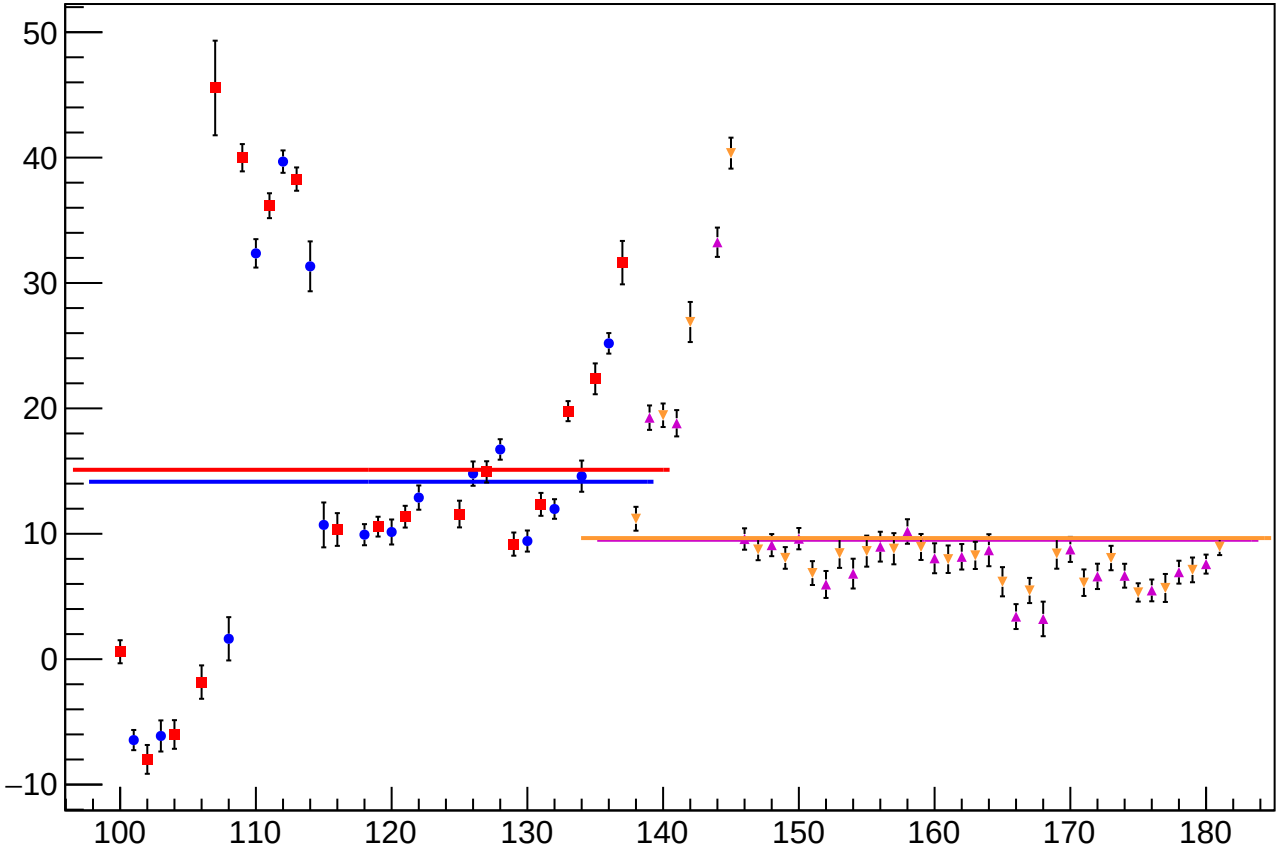
Right: 4.823+/-0.155 $\chi^2$/NDF: 599.0/33

In: 2.696+/-0.130 $\chi^2$/NDF:635.5/36

Out: 2.859+/-0.128 $\chi^2$/NDF:755.2/39

All: 2.779+/-0.091 $\chi^2$/NDF: 1391.5/76

# reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 14.149+/-0.247 $\chi^2$/NDF: 2402.4/15

Left Out: 9.657+/-0.213 $\chi^2$/NDF:962.2/21

Right Out: 15.103+/-0.242 $\chi^2$/NDF: 3102.3/17

Left In: 9.523+/-0.217 $\chi^2$/NDF:724.6/20

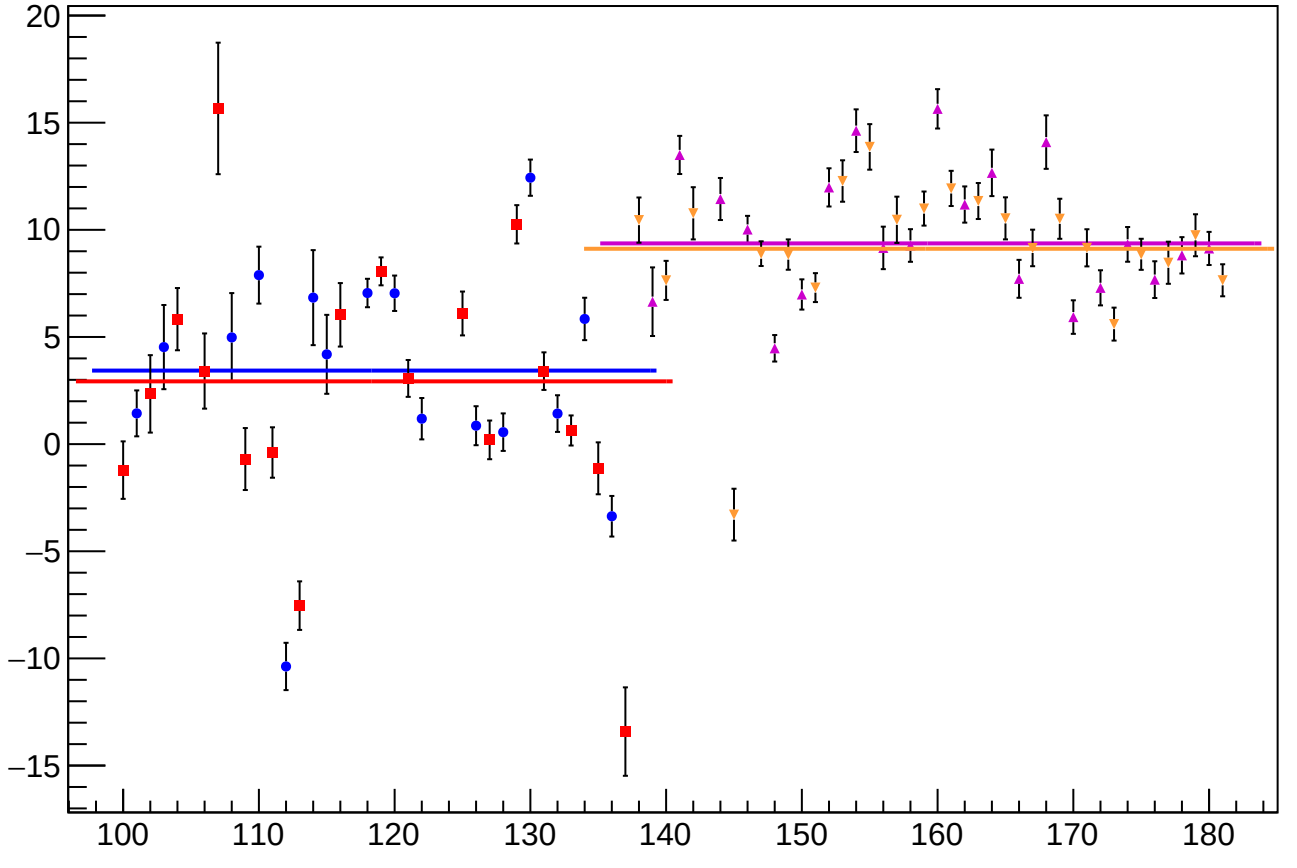
Left: 9.591+/-0.152 $\chi^2$/NDF: 1687.0/42

Right: 14.636+/-0.173 $\chi^2$/NDF: 5512.3/33

In: 11.536+/-0.163 $\chi^2$/NDF:3324.7/36

Out: 12.034+/-0.160 $\chi^2$/NDF:4350.0/39

All: 11.790+/-0.114 $\chi^2$/NDF: 7679.4/76




Right In: 3.432+/-0.254 $\chi^2$/NDF: 424.0/15

Left Out: 9.116+/-0.182 $\chi^2$/NDF:205.6/21

Right Out: 2.929+/-0.253 $\chi^2$/NDF: 367.7/17

Left In: 9.367+/-0.185 $\chi^2$/NDF:249.0/20

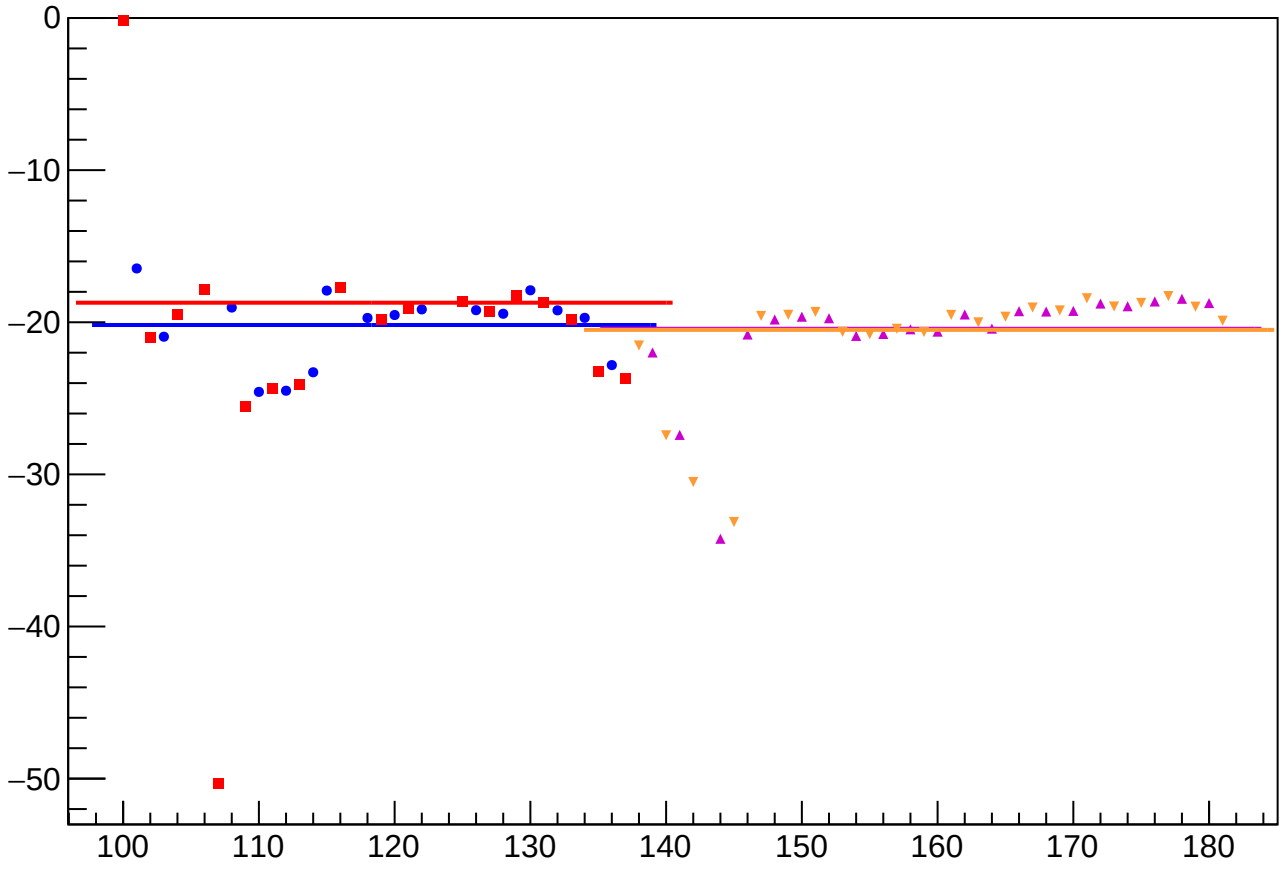
Left: 9.239+/-0.130 $\chi^2$/NDF: 455.6/42

Right: 3.179+/-0.179 $\chi^2$/NDF: 793.7/33

In: 7.312+/-0.150 $\chi^2$/NDF:1029.4/36

Out: 7.015+/-0.148 $\chi^2$/NDF:967.3/39

All: 7.162+/-0.105 $\chi^2$/NDF: 1998.7/76




Right In: -20.180+/-0.016 $\chi^2$/NDF: 19856.9/15

Left Out: -20.501+/-0.008 $\chi^2$/NDF:137392.0/21

Right Out: -18.714+/-0.016 $\chi^2$/NDF: 234667.0/17

Left In: -20.426+/-0.008 $\chi^2$/NDF:113449.8/20

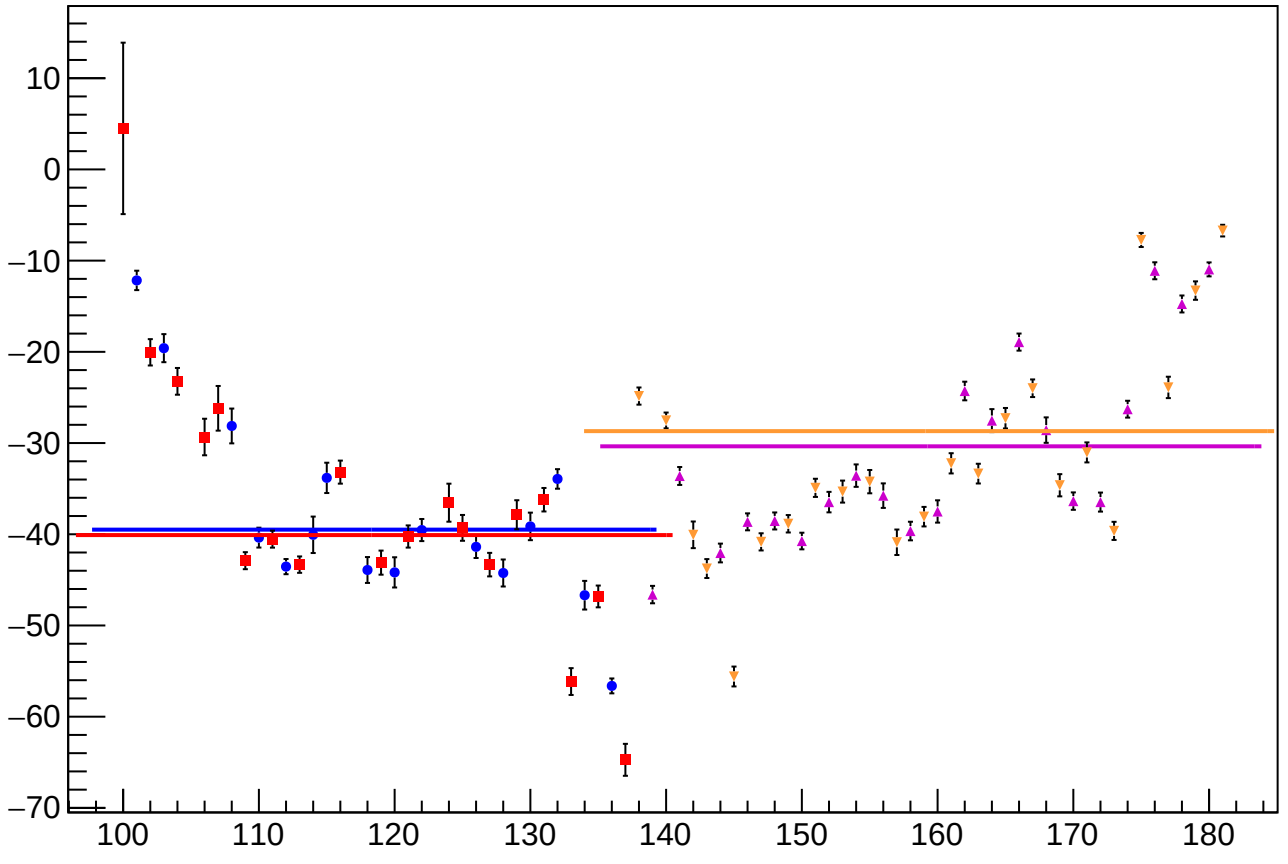
Left: -20.463+/-0.006 $\chi^2$/NDF: 250882.1/42

Right: -19.425+/-0.011 $\chi^2$/NDF: 258824.1/33

In: -20.374+/-0.007 $\chi^2$/NDF:133490.8/36

Out: -20.101+/-0.007 $\chi^2$/NDF:382288.6/39

All: -20.237+/-0.005 $\chi^2$/NDF: 516460.2/76




Right In: -39.493+/-0.311 $\chi^2$/NDF: 1417.1/15

Left Out: -28.694+/-0.211 $\chi^2$/NDF:3789.2/22

Right Out: -40.090+/-0.307 $\chi^2$/NDF: 834.9/18

Left In: -30.359+/-0.220 $\chi^2$/NDF:2520.3/20

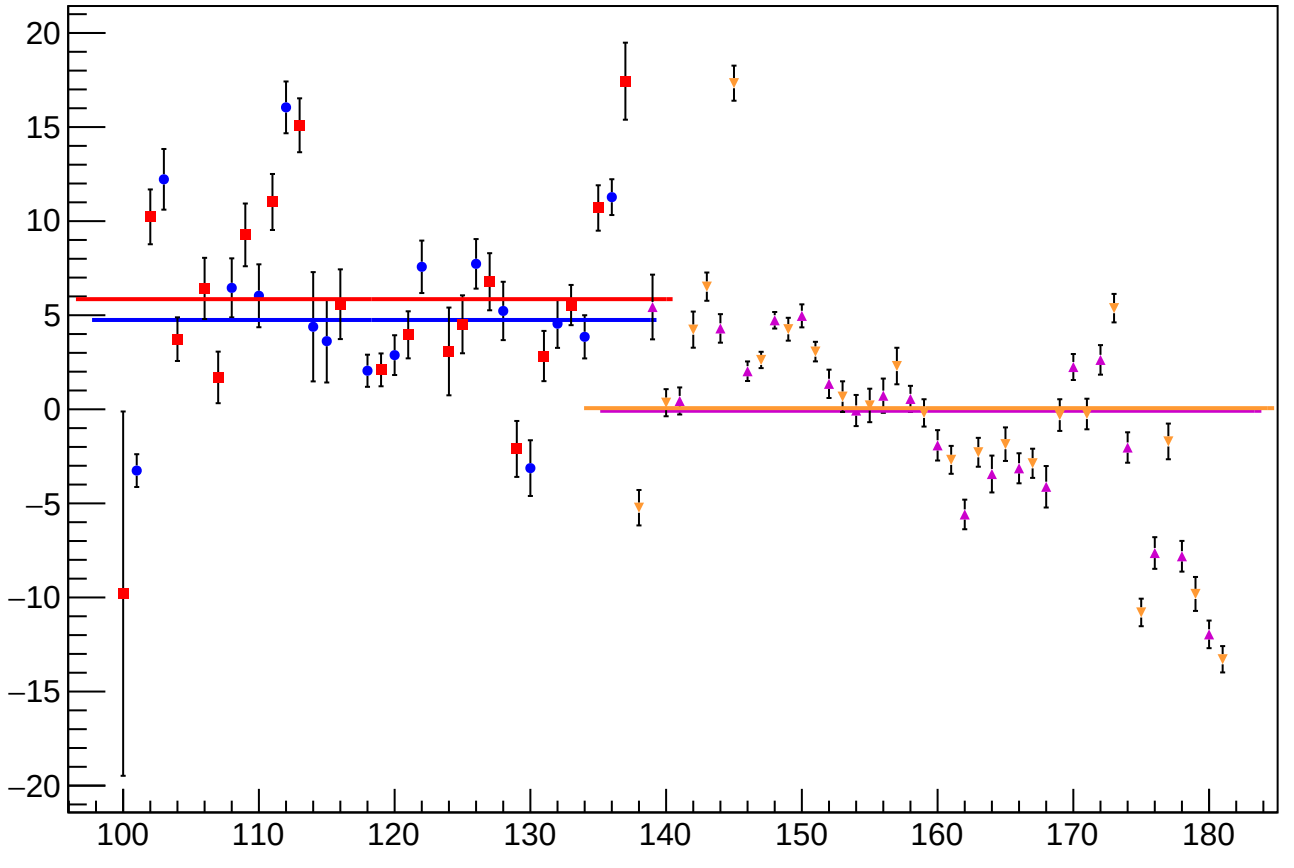
Left: -29.491+/-0.152 $\chi^2$/NDF: 6339.4/43

Right: -39.795+/-0.218 $\chi^2$/NDF: 2253.9/34

In: -33.408+/-0.179 $\chi^2$/NDF:4513.3/36

Out: -32.343+/-0.174 $\chi^2$/NDF:5560.2/41

All: -32.859+/-0.125 $\chi^2$/NDF: 10091.6/78




Right In: 4.747+/-0.316 $\chi^2$/NDF: 273.8/15

Left Out: 0.061+/-0.155 $\chi^2$/NDF:1388.3/22

Right Out: 5.854+/-0.324 $\chi^2$/NDF: 187.6/18

Left In: -0.078+/-0.161 $\chi^2$/NDF:809.4/20

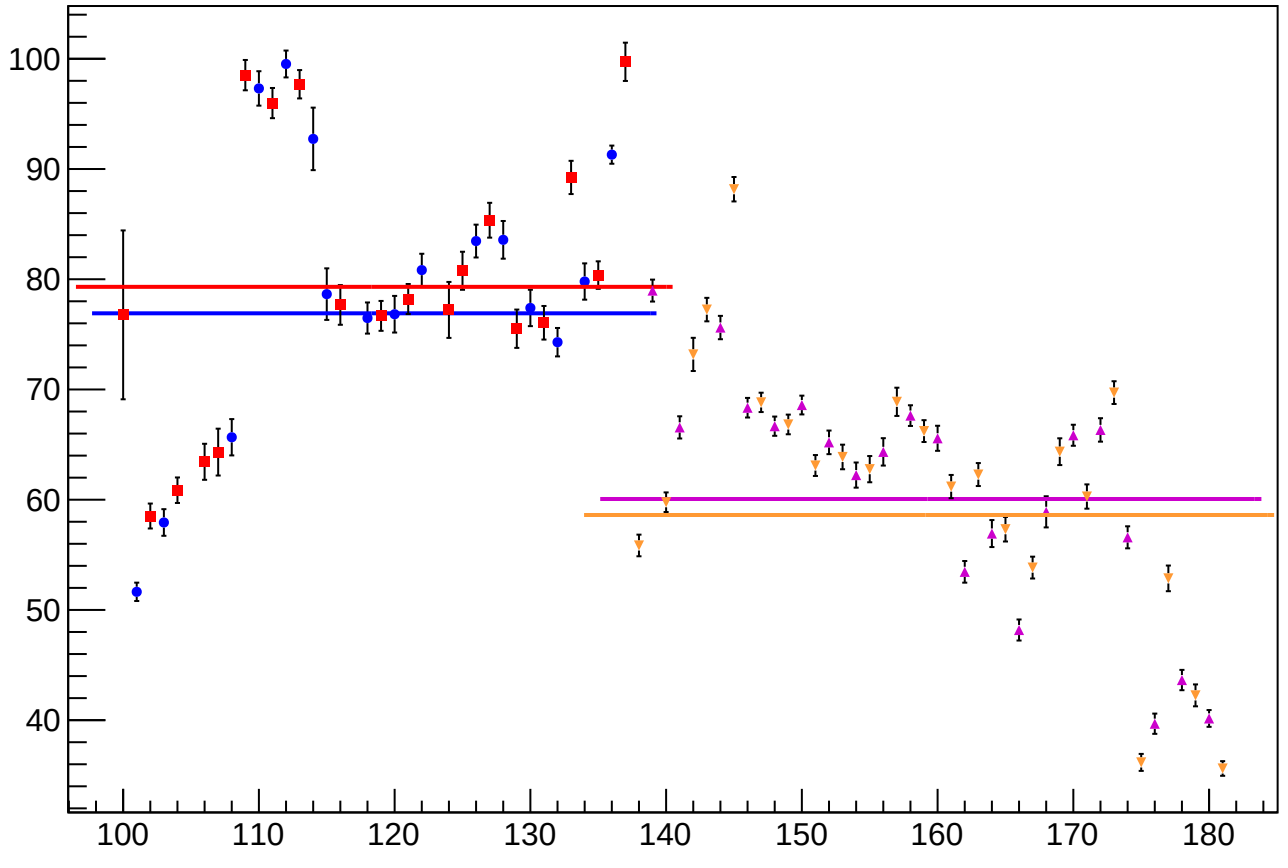
Left: -0.006+/-0.111 $\chi^2$/NDF: 2198.1/43

Right: 5.287+/-0.226 $\chi^2$/NDF: 467.4/34

In: 0.915+/-0.143 $\chi^2$/NDF:1268.5/36

Out: 1.135+/-0.139 $\chi^2$/NDF:1836.5/41

All: 1.028+/-0.100 $\chi^2$/NDF: 3106.2/78




Right In: 76.909+/-0.337 $\chi^2$/NDF: 2116.0/15

Left Out: 58.613+/-0.208 $\chi^2$/NDF:4047.4/22

Right Out: 79.311+/-0.348 $\chi^2$/NDF: 1496.4/18

Left In: 60.064+/-0.216 $\chi^2$/NDF:2773.8/20

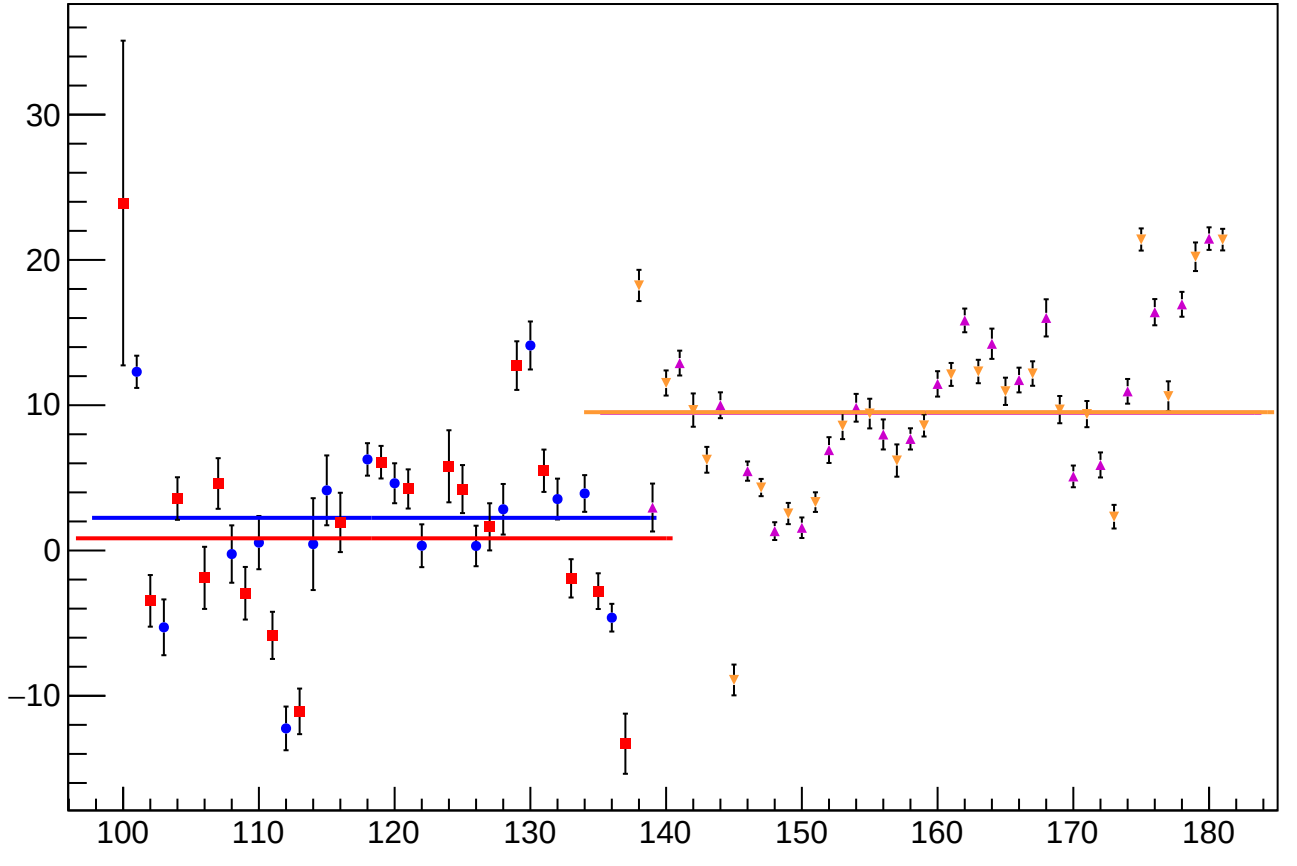
Left: 59.312+/-0.150 $\chi^2$/NDF: 6844.6/43

Right: 78.071+/-0.242 $\chi^2$/NDF: 3636.9/34

In: 64.976+/-0.182 $\chi^2$/NDF:6661.2/36

Out: 64.079+/-0.179 $\chi^2$/NDF:8149.2/41

All: 64.520+/-0.128 $\chi^2$/NDF: 14822.7/78


reg_asym_right_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
30
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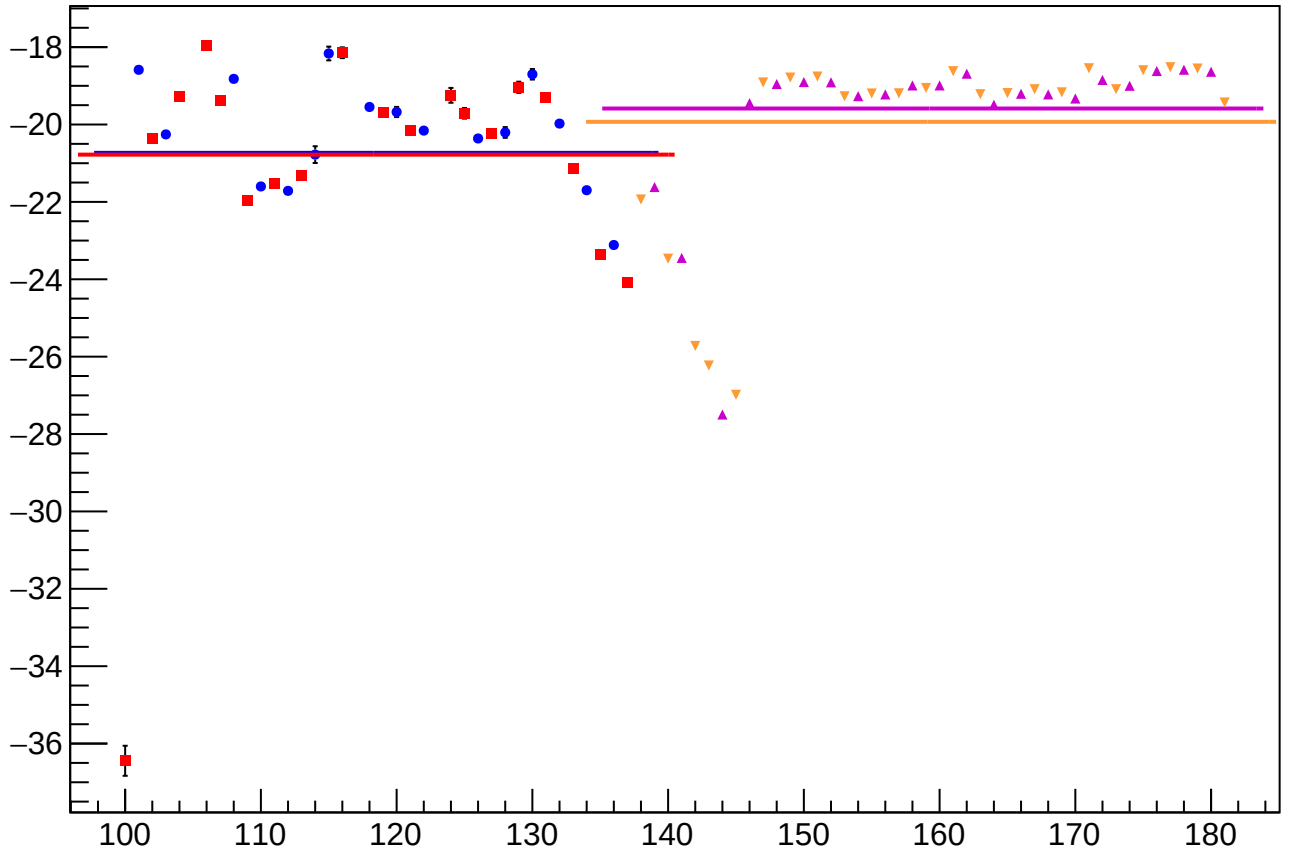
120
130
140
150
160
170
180
Right In: 2.248+/-0.363 χ²/NDF: 319.6/15
Left Out: 9.520+/-0.177 χ²/NDF:1380.9/22
Right Out: 0.840+/-0.372 χ²/NDF: 256.2/18
Left In: 9.484+/-0.184 χ²/NDF:935.3/20
Left: 9.503+/-0.128 χ²/NDF: 2316.3/43
Right: 1.561+/-0.260 χ²/NDF: 583.2/34
In: 8.009+/-0.164 χ²/NDF:1571.2/36
Out: 7.912+/-0.160 χ²/NDF:2080.5/41
All: 7.959+/-0.115 χ²/NDF: 3651.9/78




Right In: -20.732+/-0.019 $\chi^2$/NDF: 7634.1/15

Left Out: -19.930+/-0.008 $\chi^2$/NDF:78089.8/22

Right Out: -20.778+/-0.020 $\chi^2$/NDF: 9426.6/18

Left In: -19.586+/-0.008 $\chi^2$/NDF:45019.6/20

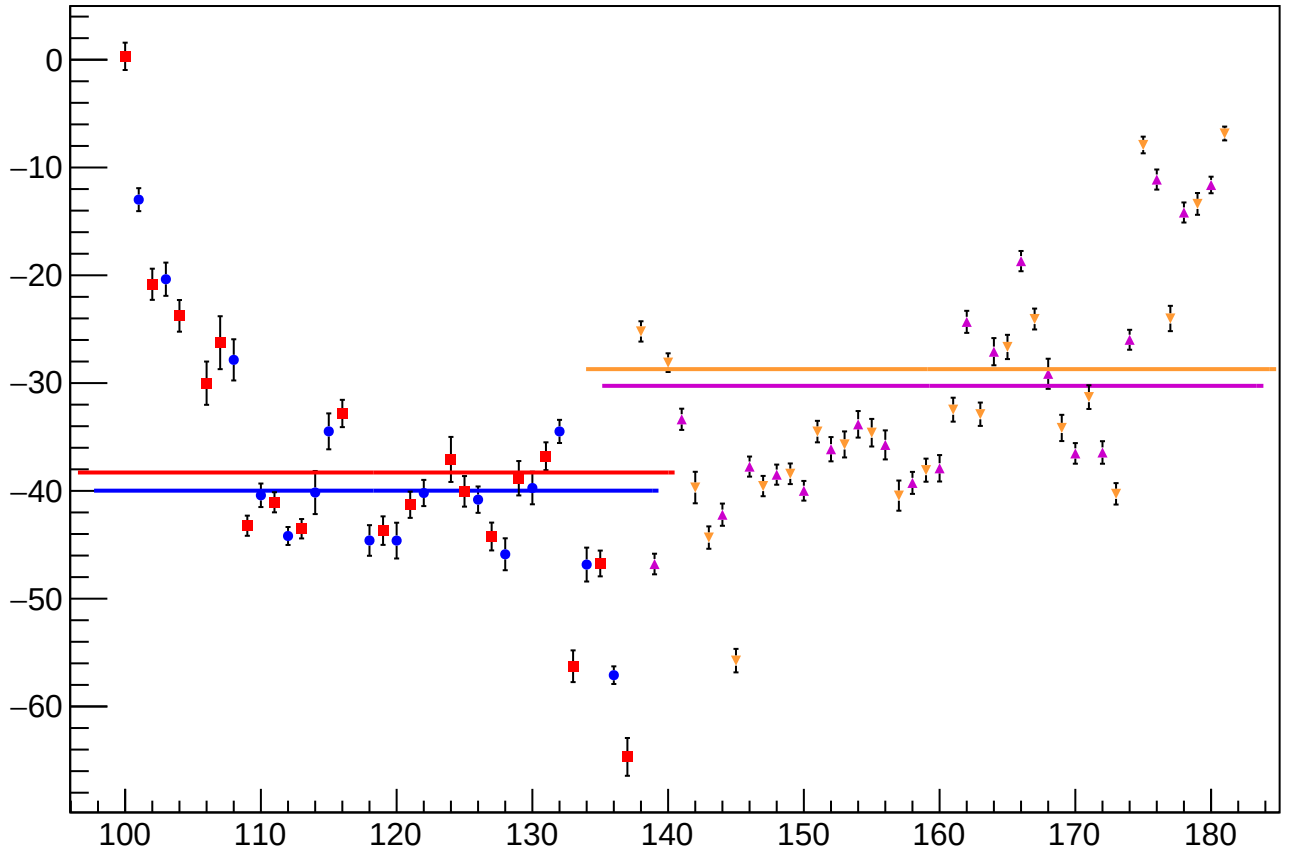
Left: -19.761+/-0.006 $\chi^2$/NDF: 123979.6/43

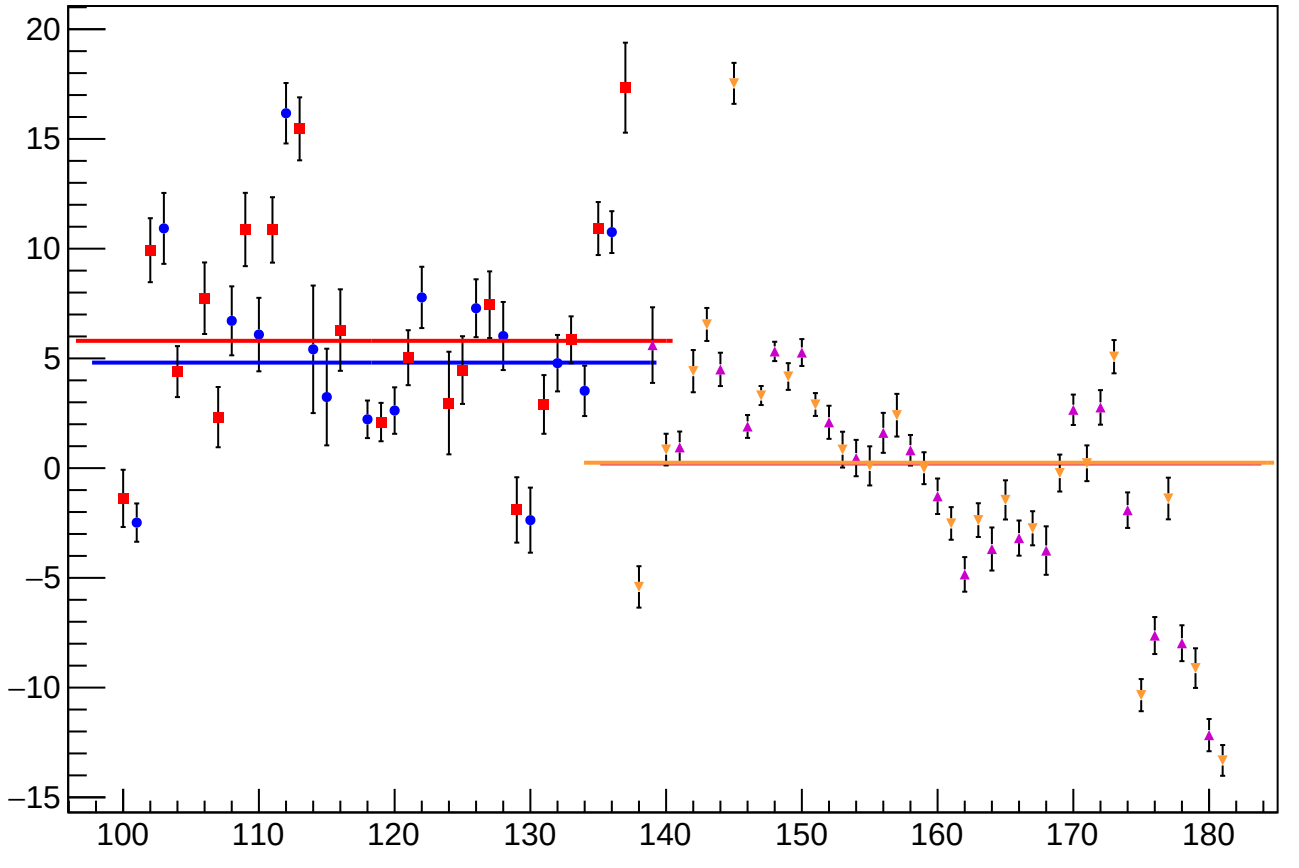
Right: -20.755+/-0.014 $\chi^2$/NDF: 17063.4/34

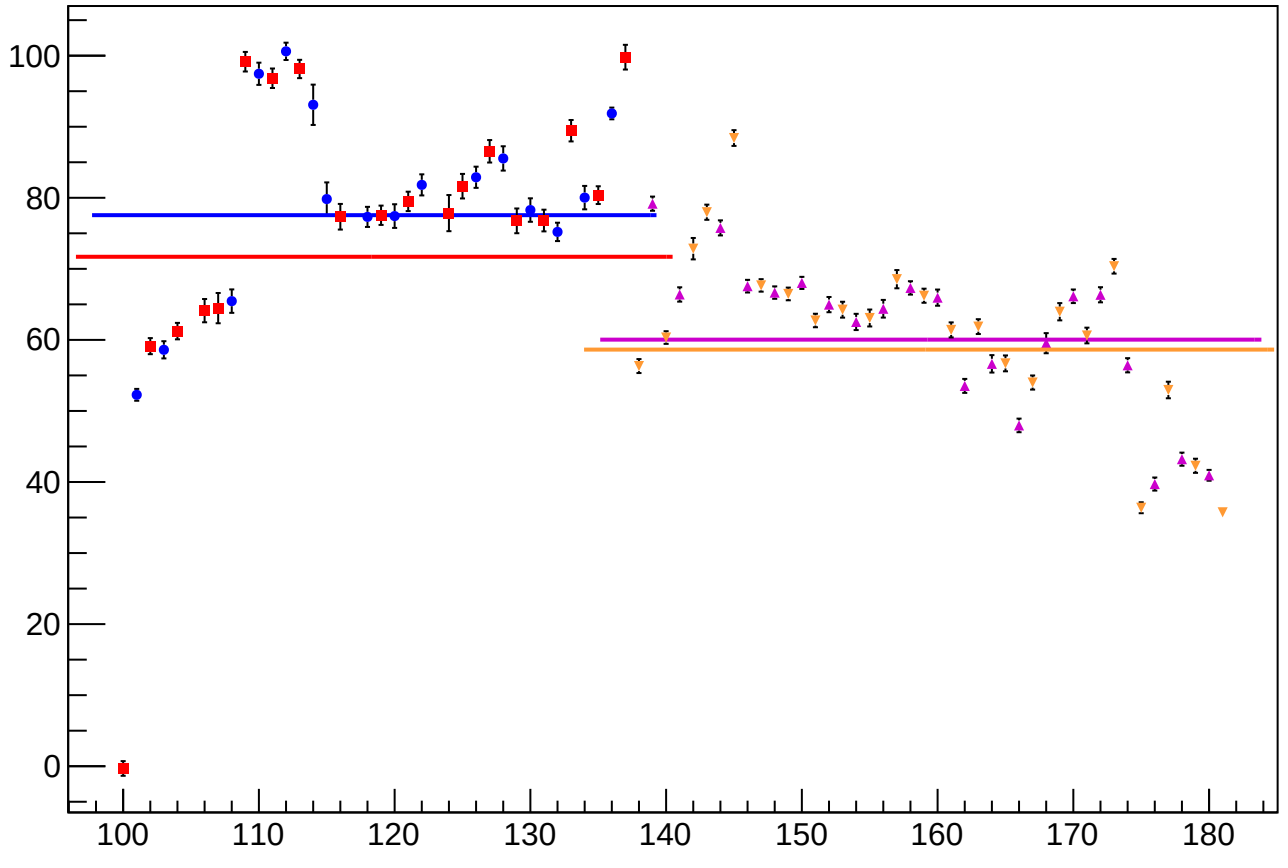
In: -19.764+/-0.008 $\chi^2$/NDF:55597.4/36

Out: -20.050+/-0.008 $\chi^2$/NDF:89031.7/41

All: -19.908+/-0.005 $\chi^2$/NDF: 145337.7/78


reg_asym_right_dd_diff_bpm1X_slope vs Slug, Sign Corrected
0
−10
−20
−30
−40
−50
−60
100
110
120
130
140
150
160
170
180
Right In: -39.979+/-0.311 χ²/NDF: 1398.4/15
Left Out: -28.705+/-0.211 χ²/NDF:3729.3/22
Right Out: -38.295+/-0.299 χ²/NDF: 1773.8/18
Left In: -30.255+/-0.220 χ²/NDF:2468.5/20
Left: -29.447+/-0.152 χ²/NDF: 6223.6/43
Right: -39.104+/-0.216 χ²/NDF: 3187.4/34
In: -33.503+/-0.180 χ²/NDF:4517.6/36
Out: -31.894+/-0.172 χ²/NDF:6189.3/41
All: -32.665+/-0.124 χ²/NDF: 10748.7/78


reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
20
15
10
5
0
−5
−10
−15
100
110
120
130
140
150
160
170
180
Right In: 4.808+/-0.316 χ²/NDF: 240.5/15
Left Out: 0.247+/-0.155 χ²/NDF:1370.4/22
Right Out: 5.801+/-0.315 χ²/NDF: 216.4/18
Left In: 0.213+/-0.161 χ²/NDF:856.9/20
Left: 0.231+/-0.112 χ²/NDF: 2227.3/43
Right: 5.307+/-0.223 χ²/NDF: 461.9/34
In: 1.159+/-0.144 χ²/NDF:1265.0/36
Out: 1.327+/-0.139 χ²/NDF:1837.3/41
All: 1.246+/-0.100 χ²/NDF: 3102.9/78




Right In: 77.554+/-0.337 $\chi^2$/NDF: 2118.3/15

Left Out: 58.635+/-0.209 $\chi^2$/NDF:4010.7/22

Right Out: 71.699+/-0.330 $\chi^2$/NDF: 6903.5/18

Left In: 60.036+/-0.217 $\chi^2$/NDF:2714.5/20

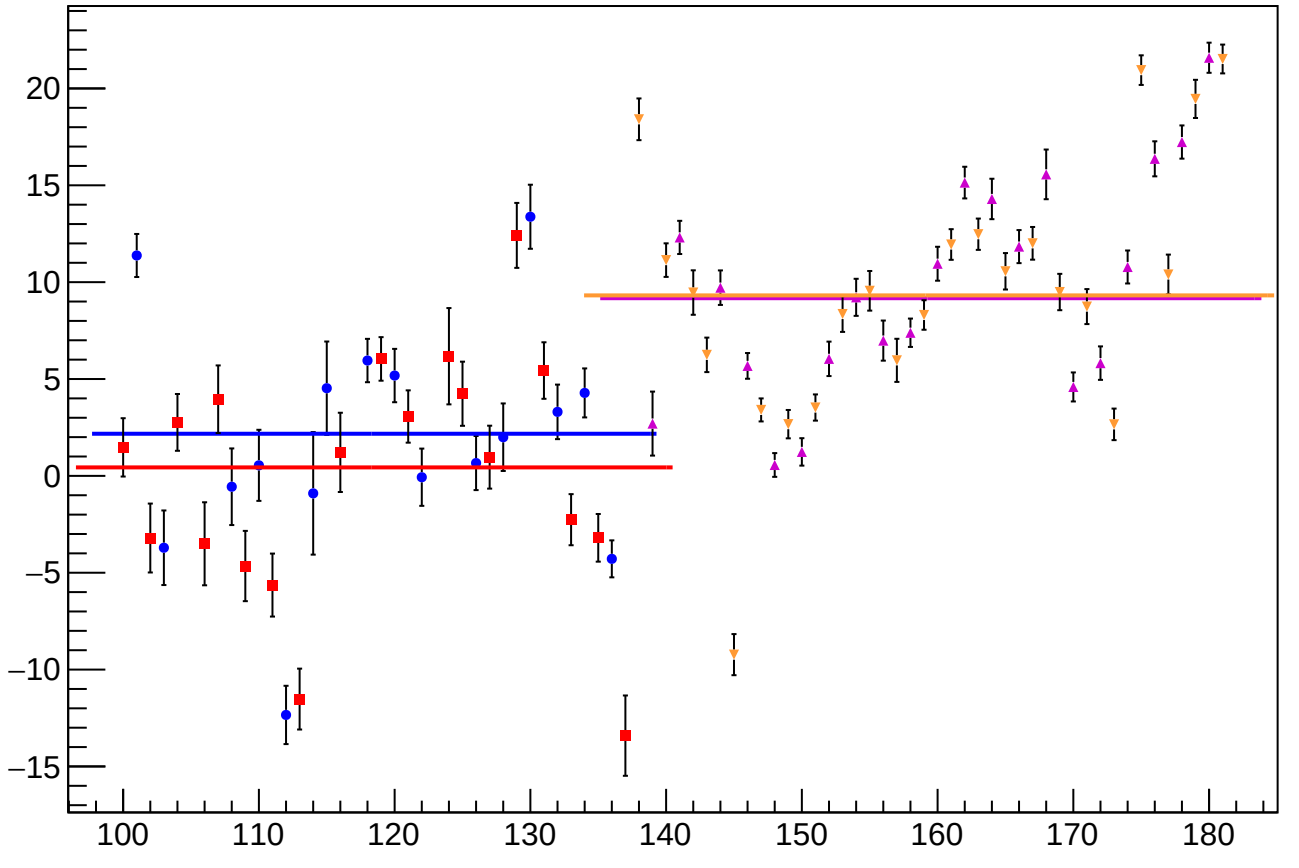
Left: 59.310+/-0.150 $\chi^2$/NDF: 6747.0/43

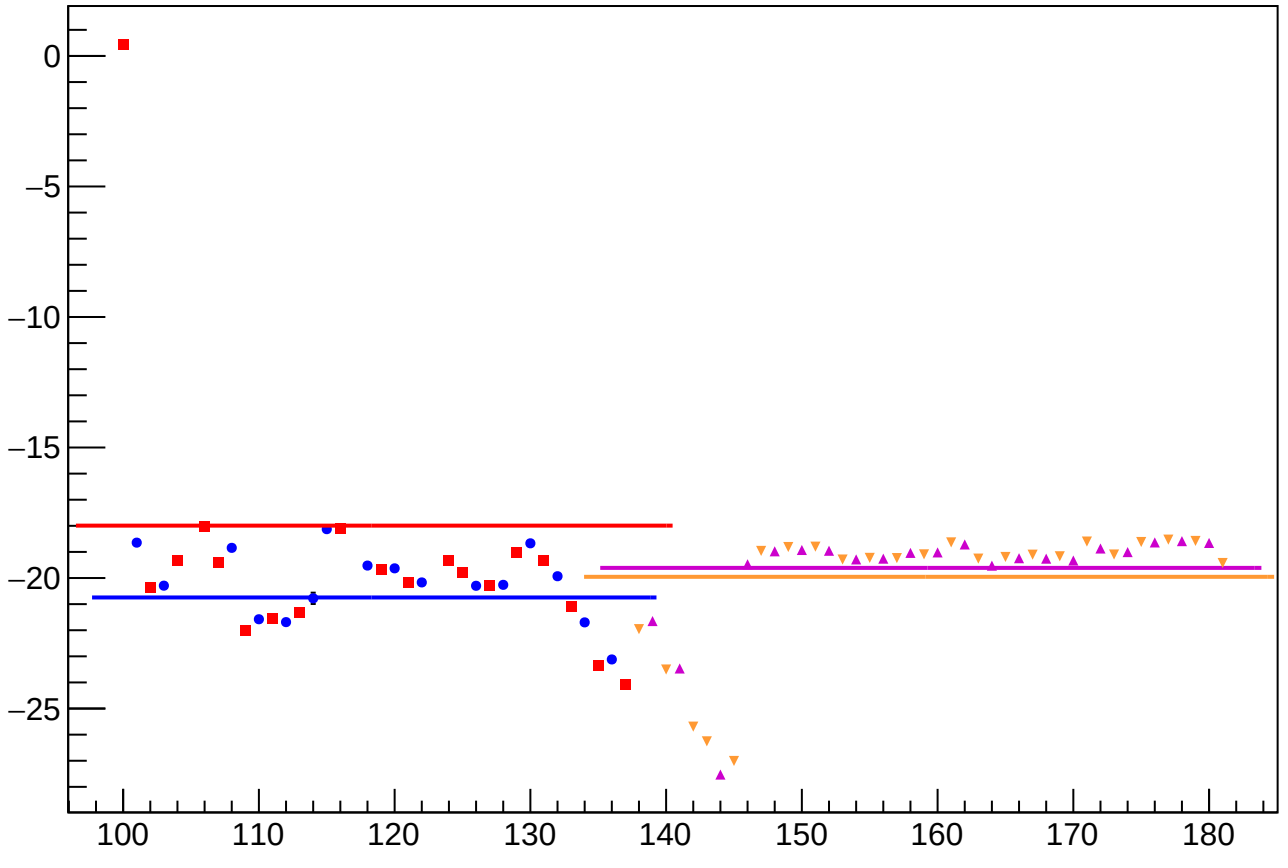
Right: 74.565+/-0.236 $\chi^2$/NDF: 9175.5/34

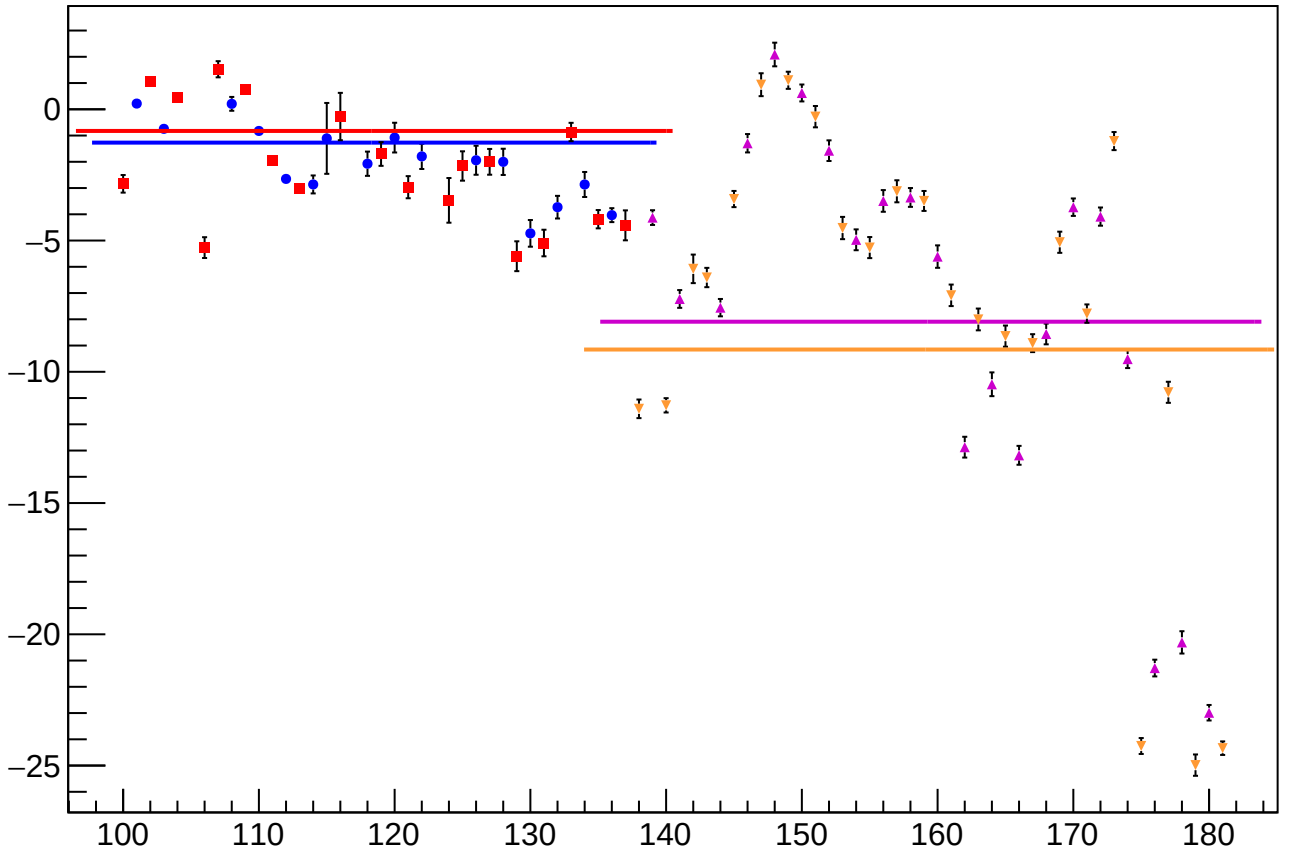
In: 65.146+/-0.182 $\chi^2$/NDF:6742.3/36

Out: 62.360+/-0.176 $\chi^2$/NDF:12031.6/41

All: 63.708+/-0.127 $\chi^2$/NDF: 18894.5/78


reg_asym_right_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
20
15
10
5
0
−5
−10
−15
100
110
120
130
140
150
160
170
180
Right In: 2.175+/-0.364 χ²/NDF: 290.3/15
Left Out: 9.317+/-0.178 χ²/NDF:1373.1/22
Right Out: 0.438+/-0.362 χ²/NDF: 254.1/18
Left In: 9.172+/-0.184 χ²/NDF:981.0/20
Left: 9.247+/-0.128 χ²/NDF: 2354.4/43
Right: 1.302+/-0.257 χ²/NDF: 555.9/34
In: 7.744+/-0.164 χ²/NDF:1566.1/36
Out: 7.593+/-0.159 χ²/NDF:2112.2/41
All: 7.666+/-0.114 χ²/NDF: 3678.8/78


reg_asym_right_dd_diff_bpm12X_slope vs Slug, Sign Corrected
0
−5
−10
−15
−20
−25
100
110
120
130
140
150
160
170
180
Right In: -20.745+/-0.019 χ²/NDF: 7513.6/15
Left Out: -19.954+/-0.008 χ²/NDF:77691.7/22
Right Out: -17.993+/-0.019 χ²/NDF: 150579.1/18
Left In: -19.611+/-0.008 χ²/NDF:44934.6/20
Left: -19.785+/-0.006 χ²/NDF: 123485.5/43
Right: -19.328+/-0.014 χ²/NDF: 168397.6/34
In: -19.787+/-0.008 χ²/NDF:55316.6/36
Out: -19.643+/-0.008 χ²/NDF:237348.8/41
All: -19.713+/-0.005 χ²/NDF: 292845.4/78




Right In: -1.270+/-0.055 $\chi^2$/NDF: 616.5/15

Left Out: -9.152+/-0.076 $\chi^2$/NDF:11337.3/22

Right Out: -0.825+/-0.051 $\chi^2$/NDF: 1384.3/18

Left In: -8.092+/-0.078 $\chi^2$/NDF:8271.6/20

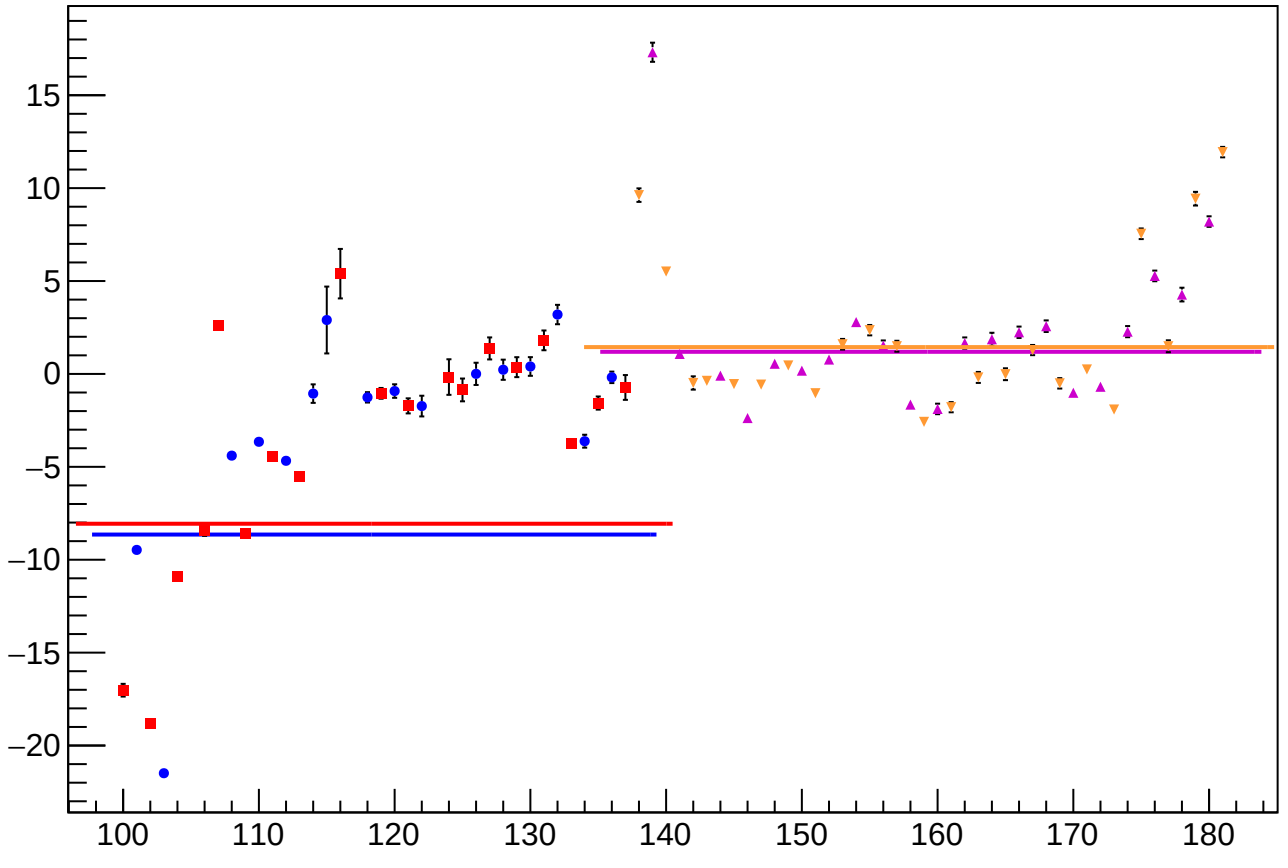
Left: -8.640+/-0.054 $\chi^2$/NDF: 19703.9/43

Right: -1.033+/-0.037 $\chi^2$/NDF: 2036.2/34

In: -3.499+/-0.045 $\chi^2$/NDF:14004.4/36

Out: -3.434+/-0.042 $\chi^2$/NDF:21061.6/41

All: -3.465+/-0.031 $\chi^2$/NDF: 35067.2/78




Right In: -8.645+/-0.057 $\chi^2$/NDF: 13827.6/15

Left Out: 1.444+/-0.057 $\chi^2$/NDF:4184.2/22

Right Out: -8.063+/-0.058 $\chi^2$/NDF: 14427.9/18

Left In: 1.191+/-0.059 $\chi^2$/NDF:2676.8/20

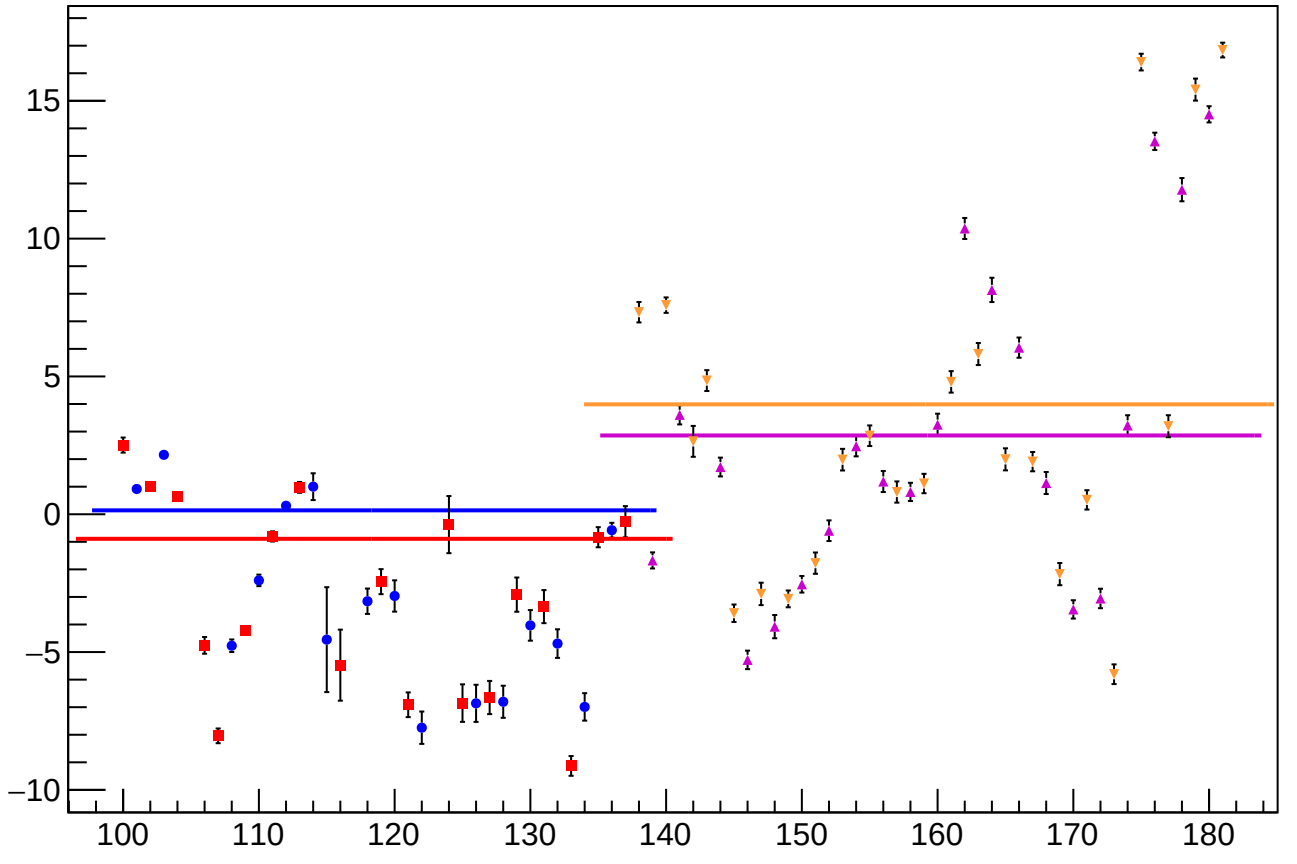
Left: 1.323+/-0.041 $\chi^2$/NDF: 6870.7/43

Right: -8.357+/-0.040 $\chi^2$/NDF: 28307.3/34

In: -3.916+/-0.041 $\chi^2$/NDF:30850.5/36

Out: -3.229+/-0.040 $\chi^2$/NDF:32510.5/41

All: -3.567+/-0.029 $\chi^2$/NDF: 63503.8/78




Right In: 0.141+/-0.053 $\chi^2$/NDF: 1959.8/15

Left Out: 3.988+/-0.075 $\chi^2$/NDF:8020.6/22

Right Out: -0.891+/-0.054 $\chi^2$/NDF: 2985.7/18

Left In: 2.858+/-0.077 $\chi^2$/NDF:6017.2/20

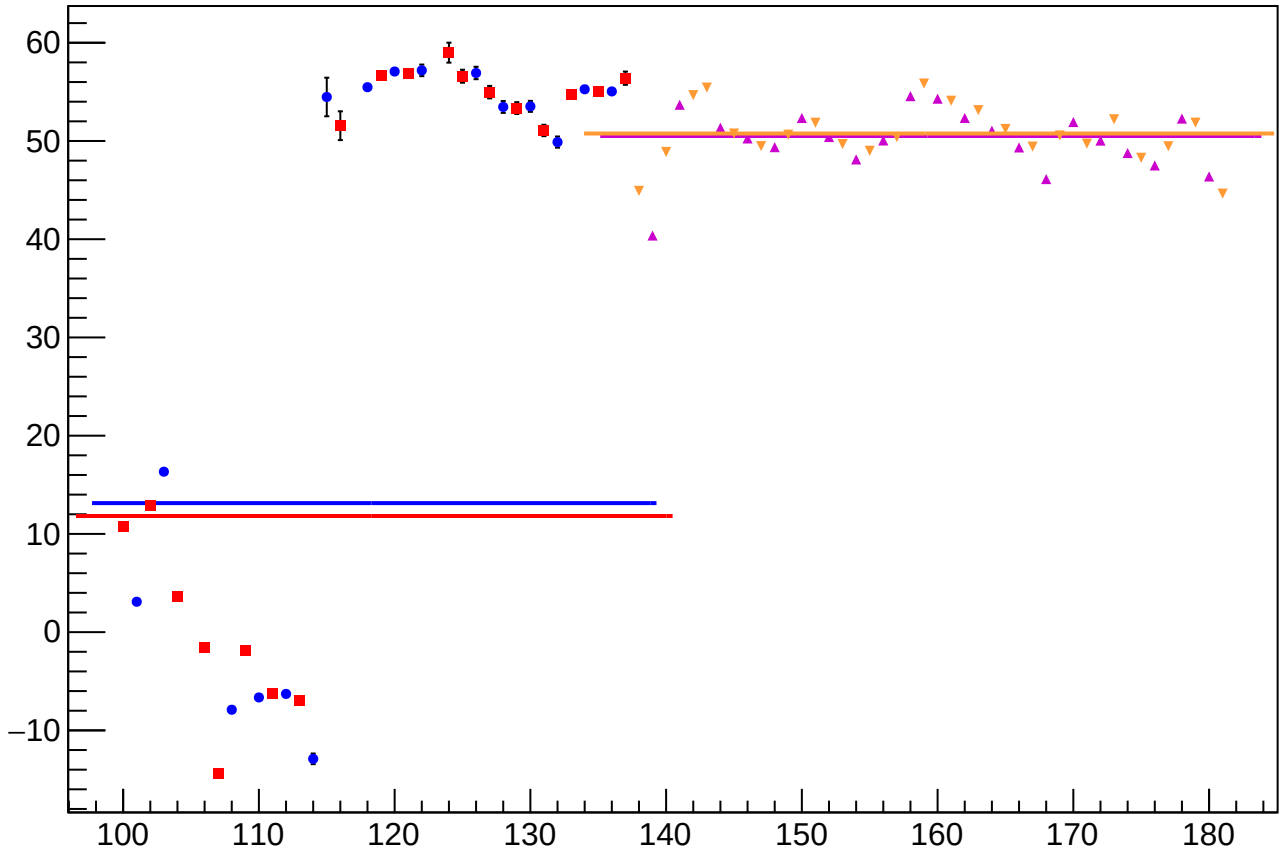
Left: 3.440+/-0.054 $\chi^2$/NDF: 14148.4/43

Right: -0.368+/-0.038 $\chi^2$/NDF: 5133.2/34

In: 1.012+/-0.044 $\chi^2$/NDF:8821.1/36

Out: 0.766+/-0.044 $\chi^2$/NDF:13818.2/41

All: 0.889+/-0.031 $\chi^2$/NDF: 22655.3/78




Right In: 13.136+/-0.068 $\chi^2$/NDF: 108574.4/15

Left Out: 50.760+/-0.064 $\chi^2$/NDF:1740.0/22

Right Out: 11.822+/-0.068 $\chi^2$/NDF: 118168.5/18

Left In: 50.508+/-0.067 $\chi^2$/NDF:1638.4/20

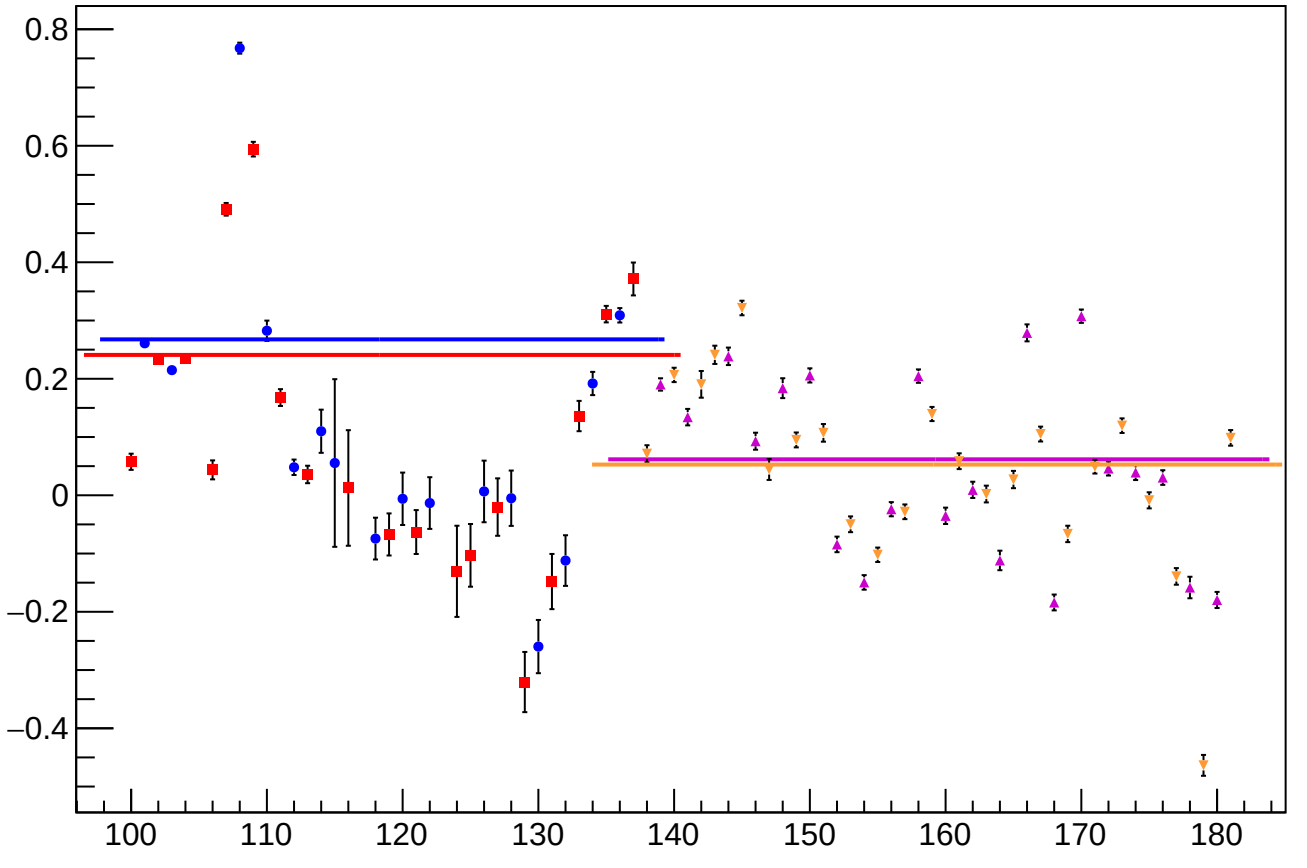
Left: 50.638+/-0.046 $\chi^2$/NDF: 3385.8/43

Right: 12.478+/-0.048 $\chi^2$/NDF: 226930.1/34

In: 32.177+/-0.048 $\chi^2$/NDF:264359.5/36

Out: 32.360+/-0.047 $\chi^2$/NDF:293627.6/41

All: 32.270+/-0.033 $\chi^2$/NDF: 557994.6/78




Right In: 0.268+/-0.003 $\chi^2$/NDF: 3720.4/15

Left Out: 0.053+/-0.003 $\chi^2$/NDF:2303.4/22

Right Out: 0.241+/-0.003 $\chi^2$/NDF: 2339.2/18

Left In: 0.062+/-0.003 $\chi^2$/NDF:2750.2/20

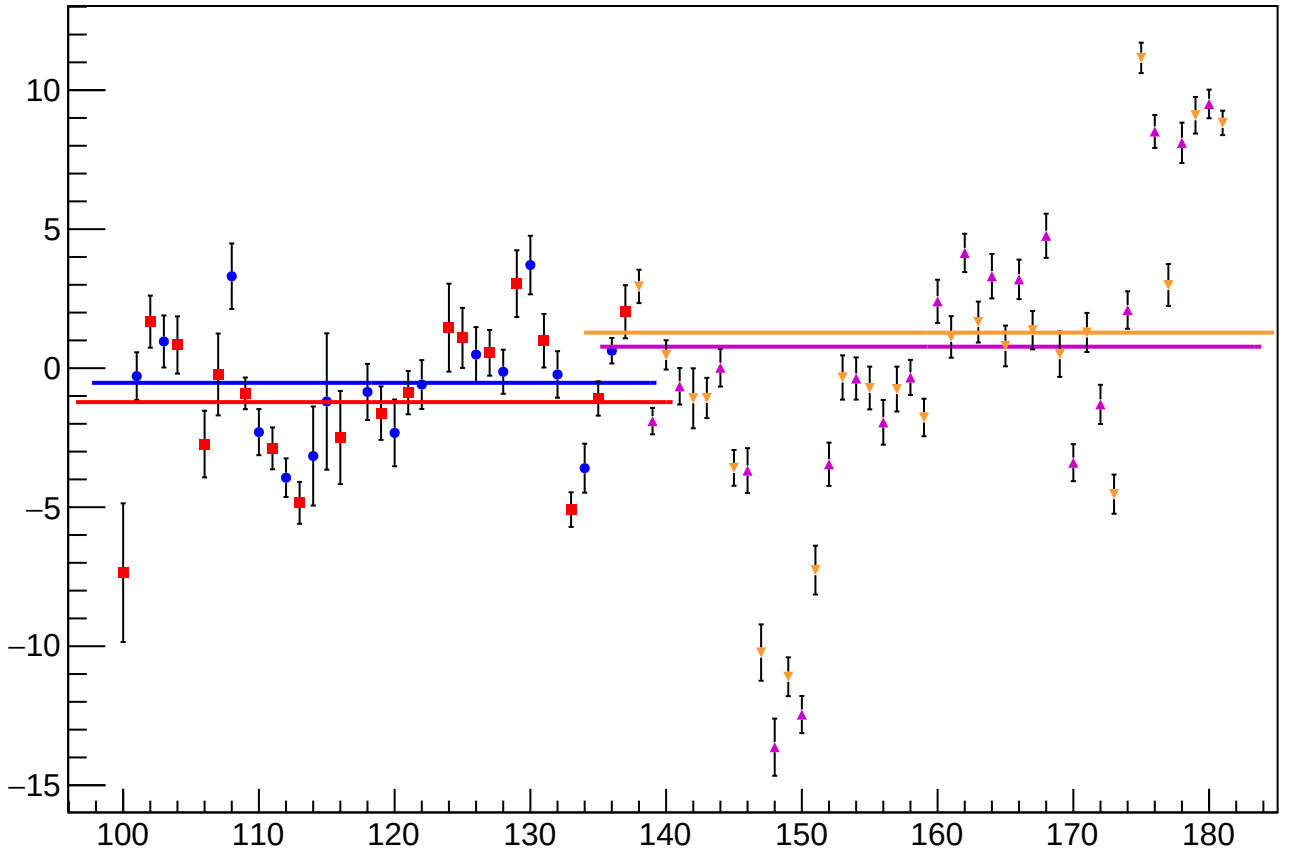
Left: 0.057+/-0.002 $\chi^2$/NDF: 5058.4/43

Right: 0.254+/-0.002 $\chi^2$/NDF: 6105.9/34

In: 0.169+/-0.002 $\chi^2$/NDF:9079.0/36

Out: 0.151+/-0.002 $\chi^2$/NDF:6880.6/41

All: 0.160+/-0.001 $\chi^2$/NDF: 15998.1/78




Right In: -0.527+/-0.217 $\chi^2$/NDF: 82.7/15

Left Out: 1.279+/-0.143 $\chi^2$/NDF:1494.4/22

Right Out: -1.221+/-0.205 $\chi^2$/NDF: 130.9/18

Left In: 0.773+/-0.149 $\chi^2$/NDF:1391.1/20

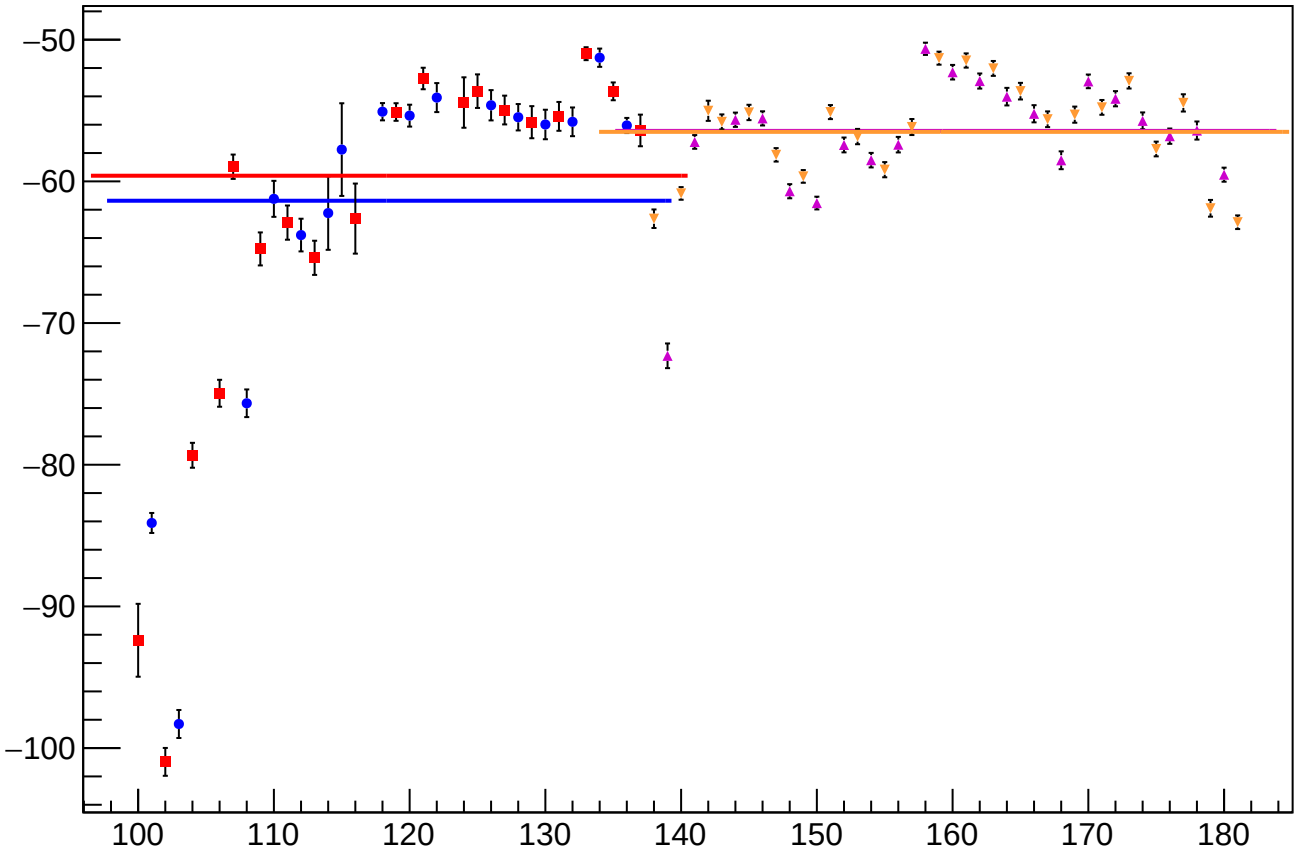
Left: 1.036+/-0.103 $\chi^2$/NDF: 2891.5/43

Right: -0.894+/-0.149 $\chi^2$/NDF: 219.1/34

In: 0.356+/-0.123 $\chi^2$/NDF:1498.2/36

Out: 0.455+/-0.117 $\chi^2$/NDF:1725.4/41

All: 0.408+/-0.085 $\chi^2$/NDF: 3224.0/78




Right In: -61.367+/-0.219 $\chi^2$/NDF: 3351.2/15

Left Out: -56.505+/-0.110 $\chi^2$/NDF:951.4/22

Right Out: -59.601+/-0.207 $\chi^2$/NDF: 3421.3/18

Left In: -56.438+/-0.116 $\chi^2$/NDF:992.1/20

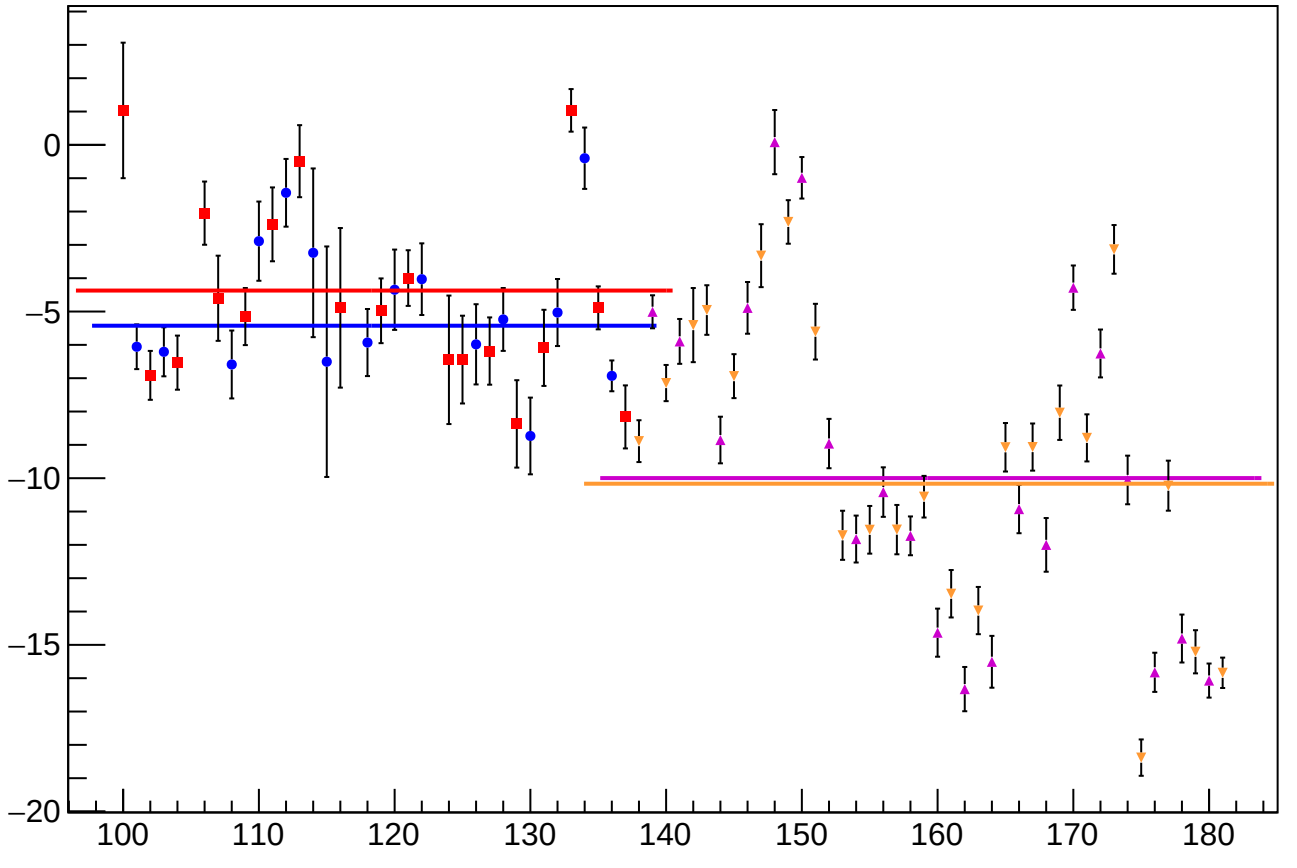
Left: -56.473+/-0.080 $\chi^2$/NDF: 1943.6/43

Right: -60.433+/-0.150 $\chi^2$/NDF: 6806.9/34

In: -57.519+/-0.103 $\chi^2$/NDF:4738.7/36

Out: -57.193+/-0.097 $\chi^2$/NDF:4547.4/41

All: -57.347+/-0.071 $\chi^2$/NDF: 9291.4/78




Right In: -5.425+/-0.230 $\chi^2$/NDF: 76.0/15

Left Out: -10.166+/-0.142 $\chi^2$/NDF:966.0/22

Right Out: -4.371+/-0.223 $\chi^2$/NDF: 156.6/18

Left In: -9.997+/-0.147 $\chi^2$/NDF:1096.8/20

Left: -10.084+/-0.102 $\chi^2$/NDF: 2063.5/43

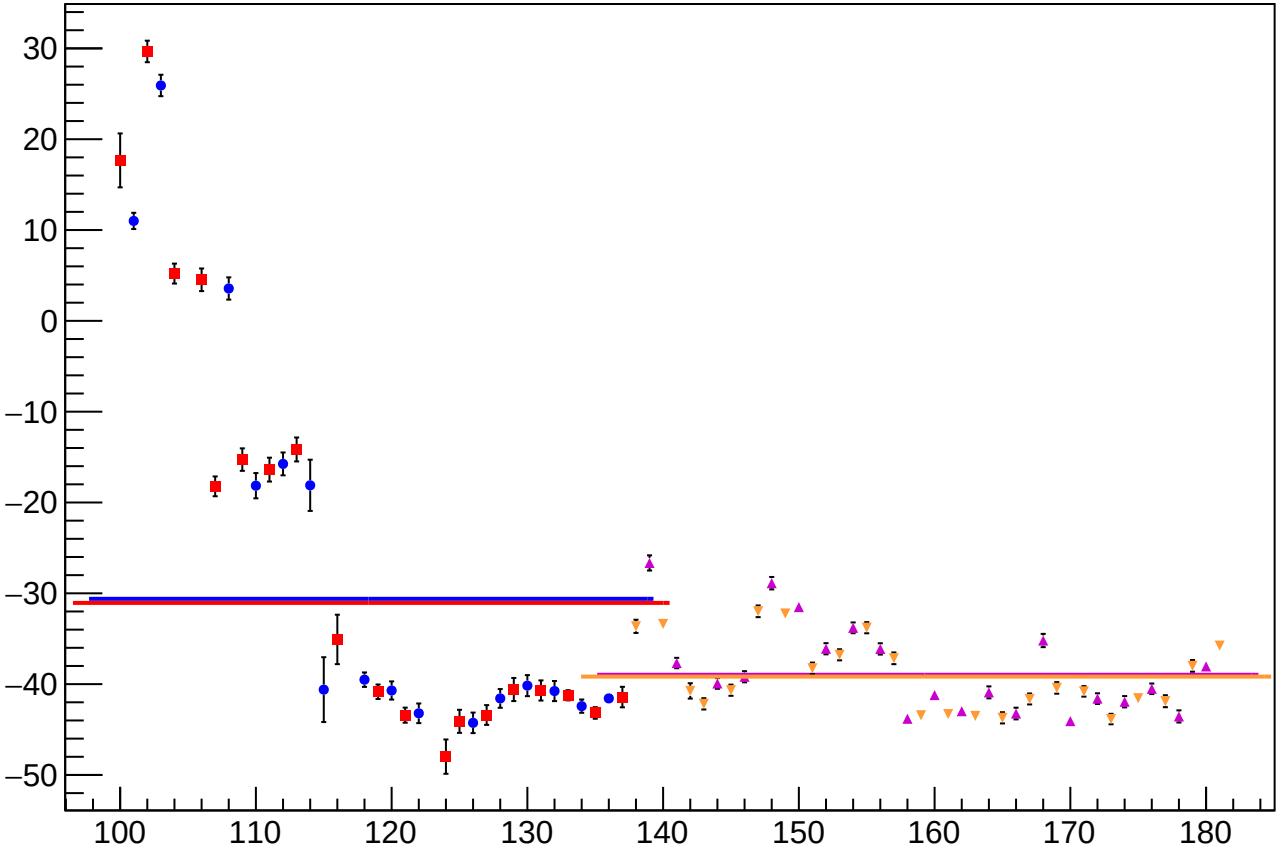
Right: -4.881+/-0.160 $\chi^2$/NDF: 243.4/34

In: -8.670+/-0.124 $\chi^2$/NDF:1453.3/36

Out: -8.486+/-0.120 $\chi^2$/NDF:1604.3/41

All: -8.575+/-0.086 $\chi^2$/NDF: 3058.8/78

reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -30.605+/-0.249 $\chi^2$/NDF: 6938.0/15

Left Out: -39.172+/-0.124 $\chi^2$/NDF:1033.6/22

Right Out: -31.056+/-0.238 $\chi^2$/NDF: 6976.4/18

Left In: -38.969+/-0.129 $\chi^2$/NDF:1222.0/20

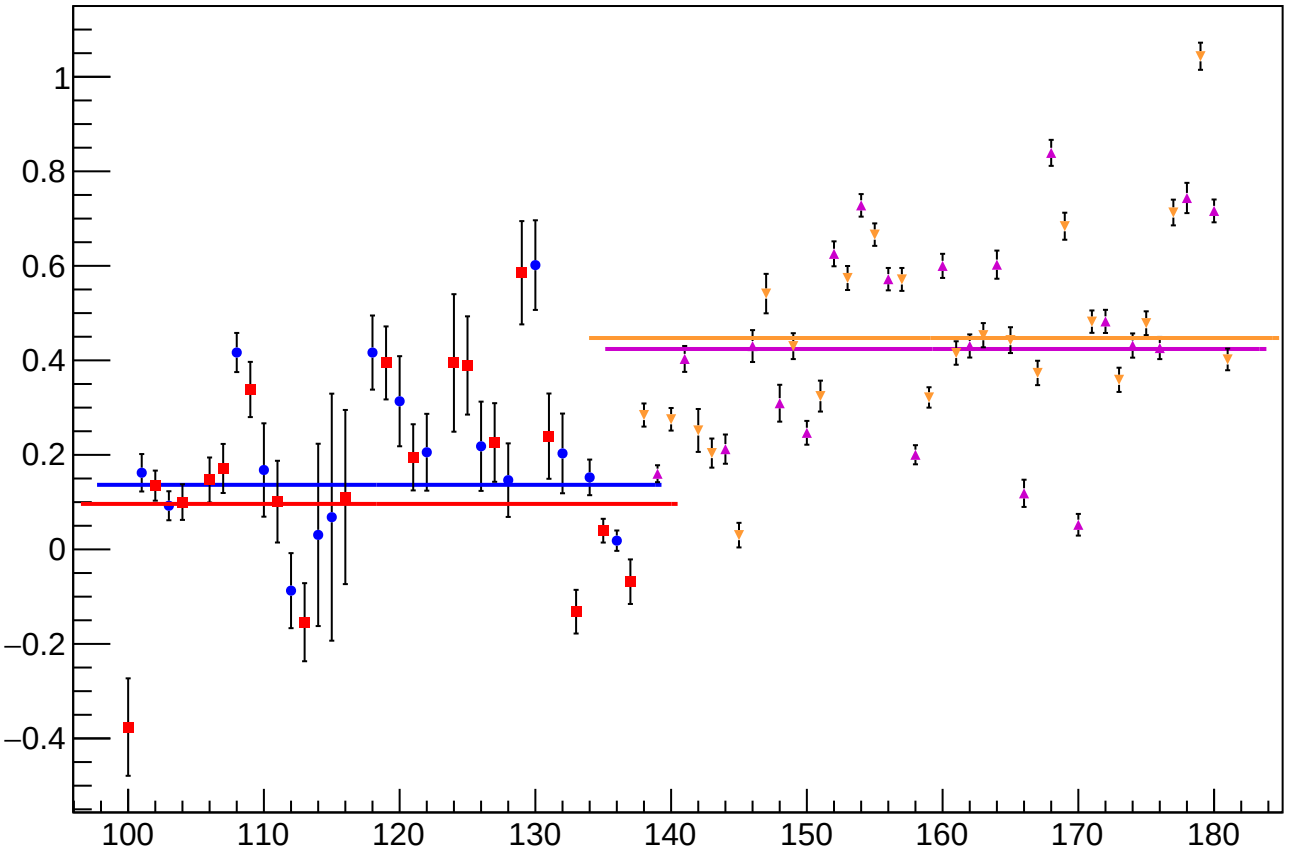
Left: -39.074+/-0.090 $\chi^2$/NDF: 2256.9/43

Right: -30.841+/-0.172 $\chi^2$/NDF: 13916.2/34

In: -37.197+/-0.115 $\chi^2$/NDF:9046.4/36

Out: -37.434+/-0.110 $\chi^2$/NDF:8925.7/41

All: -37.321+/-0.079 $\chi^2$/NDF: 17974.3/78




Right In: 0.137+/-0.013 $\chi^2$/NDF: 129.2/15

Left Out: 0.447+/-0.006 $\chi^2$/NDF:1247.2/22

Right Out: 0.096+/-0.012 $\chi^2$/NDF: 147.7/18

Left In: 0.424+/-0.006 $\chi^2$/NDF:1641.8/20

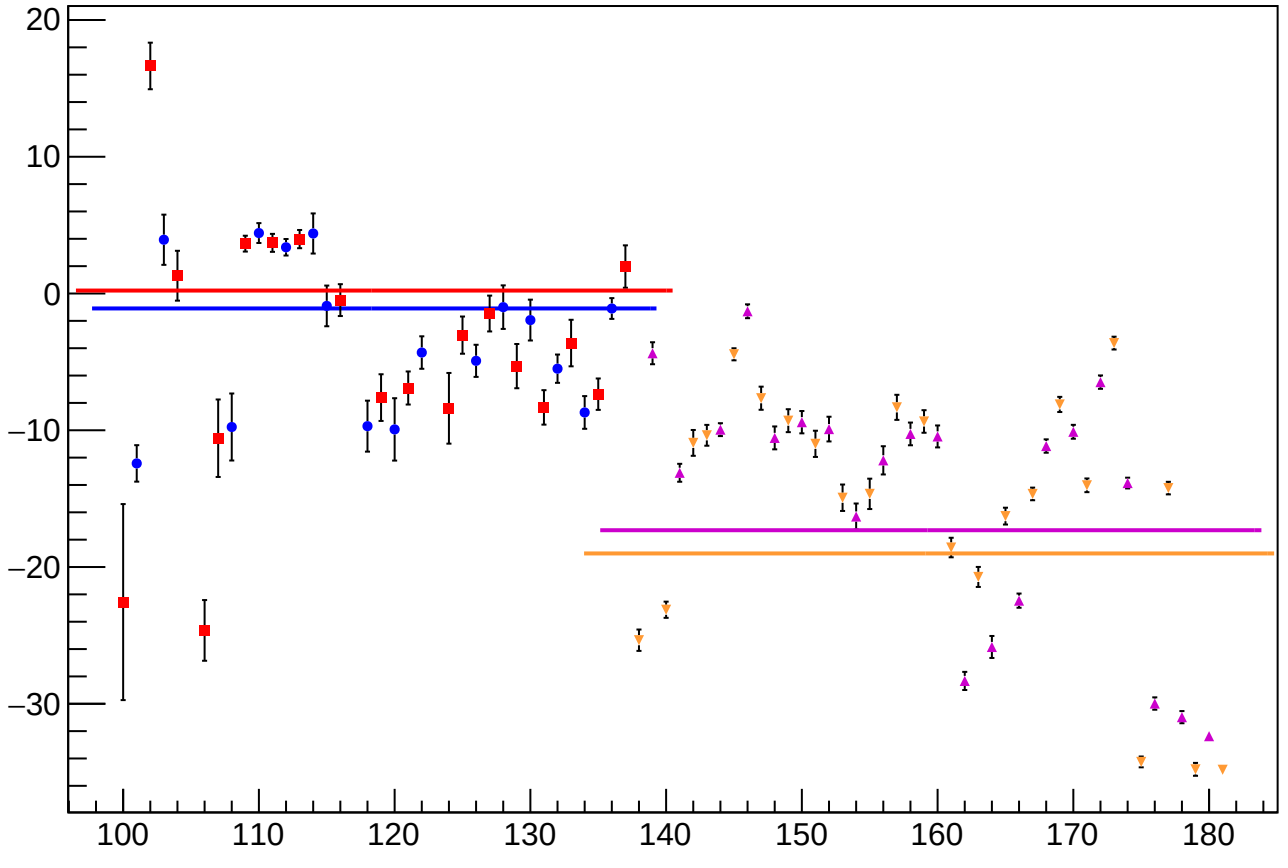
Left: 0.436+/-0.004 $\chi^2$/NDF: 2897.8/43

Right: 0.116+/-0.009 $\chi^2$/NDF: 282.3/34

In: 0.377+/-0.005 $\chi^2$/NDF:2212.7/36

Out: 0.389+/-0.005 $\chi^2$/NDF:2069.7/41

All: 0.383+/-0.004 $\chi^2$/NDF: 4285.3/78




Right In: -1.092+/-0.281 $\chi^2$/NDF: 332.0/15

Left Out: -19.007+/-0.120 $\chi^2$/NDF:8920.8/22

Right Out: 0.216+/-0.266 $\chi^2$/NDF: 520.8/18

Left In: -17.309+/-0.124 $\chi^2$/NDF:6816.9/20

Left: -18.183+/-0.086 $\chi^2$/NDF: 15834.7/43

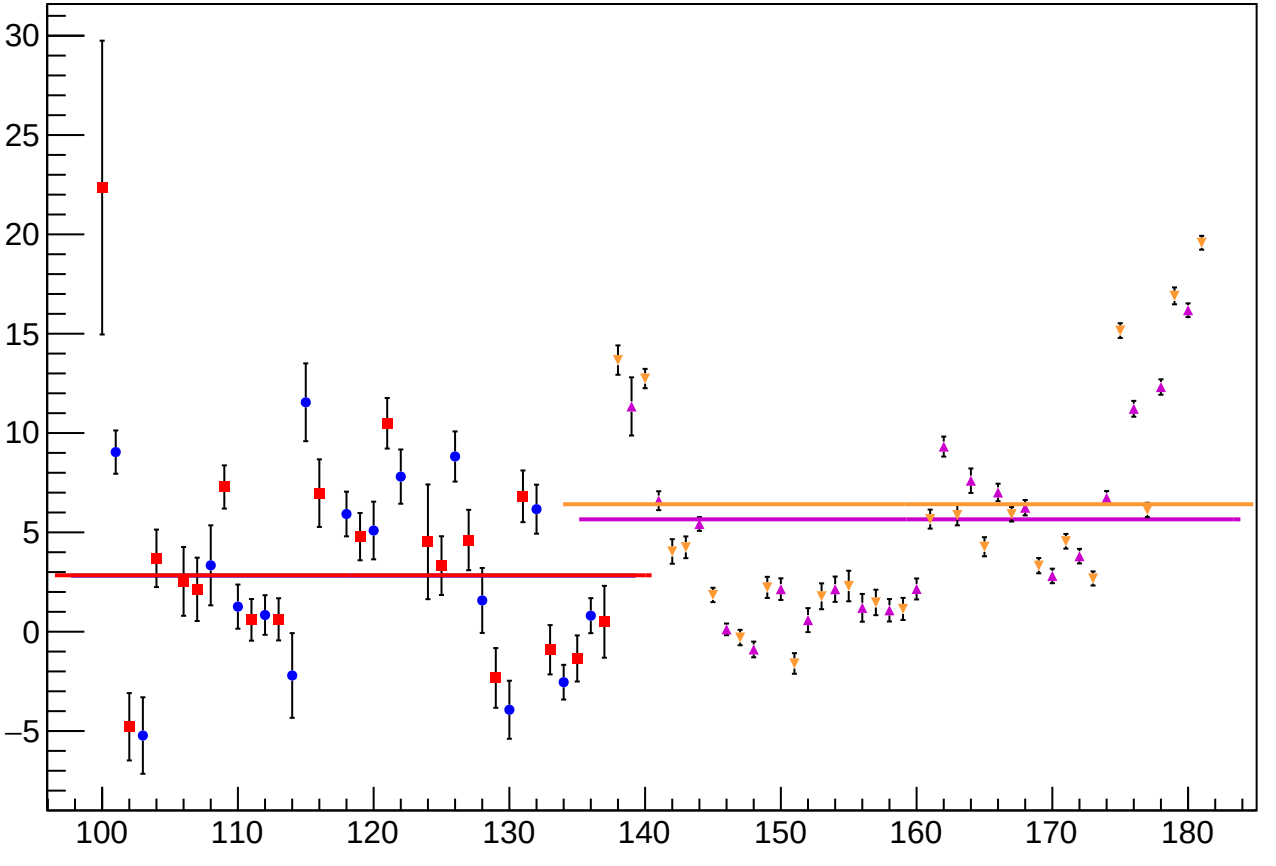
Right: -0.404+/-0.193 $\chi^2$/NDF: 864.2/34

In: -14.667+/-0.113 $\chi^2$/NDF:9945.3/36

Out: -15.751+/-0.110 $\chi^2$/NDF:13773.9/41

All: -15.227+/-0.079 $\chi^2$/NDF: 23766.6/78

reg_asym_sam_37_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 2.823+/-0.313 $\chi^2$/NDF: 199.6/15

Left Out: 6.417+/-0.094 $\chi^2$/NDF:4098.2/22

Right Out: 2.840+/-0.322 $\chi^2$/NDF: 145.0/18

Left In: 5.656+/-0.095 $\chi^2$/NDF:2525.7/20

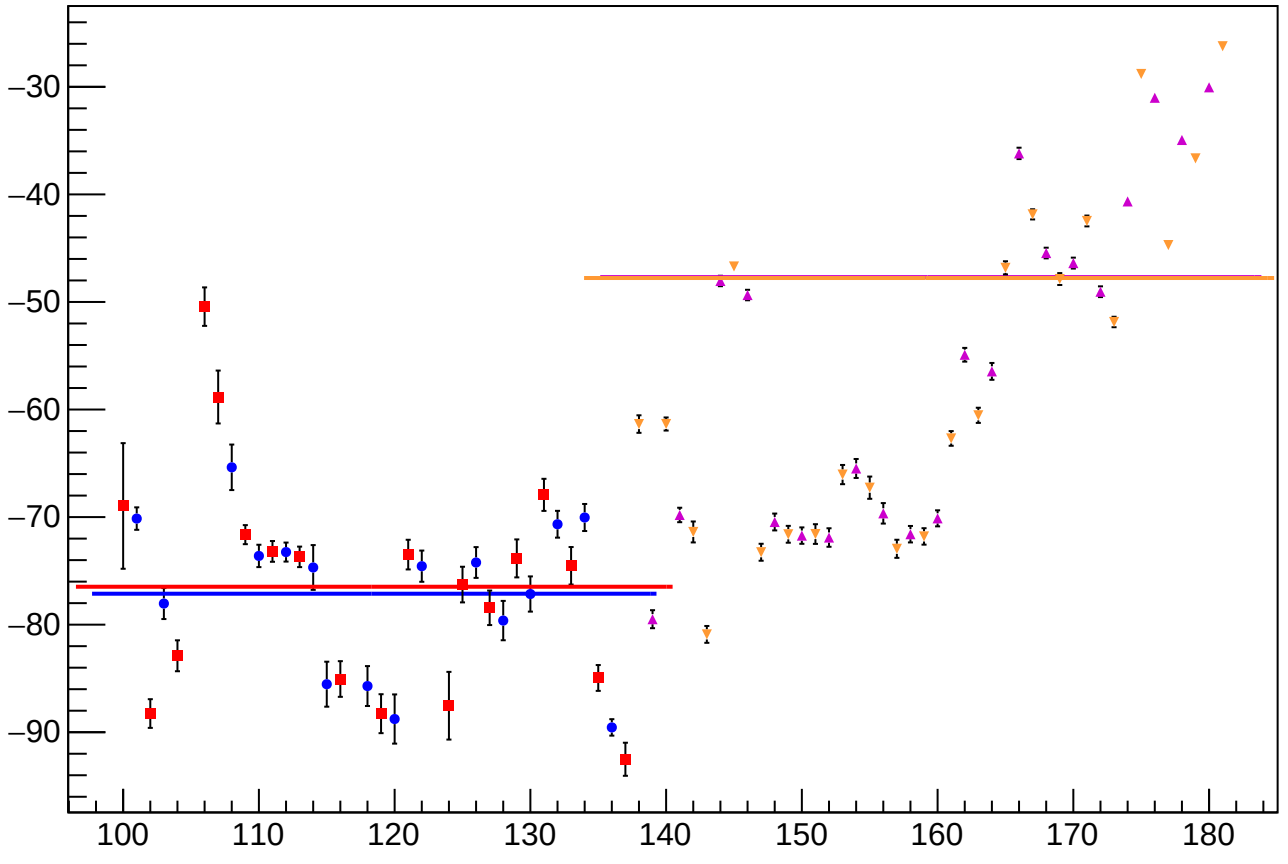
Left: 6.040+/-0.067 $\chi^2$/NDF: 6656.5/43

Right: 2.831+/-0.225 $\chi^2$/NDF: 344.5/34

In: 5.419+/-0.091 $\chi^2$/NDF:2800.1/36

Out: 6.138+/-0.090 $\chi^2$/NDF:4356.7/41

All: 5.781+/-0.064 $\chi^2$/NDF: 7188.5/78




Right In: -77.123+/-0.326 $\chi^2$/NDF: 503.3/15

Left Out: -47.773+/-0.120 $\chi^2$/NDF:16721.8/22

Right Out: -76.475+/-0.328 $\chi^2$/NDF: 695.8/18

Left In: -47.686+/-0.123 $\chi^2$/NDF:13657.1/20

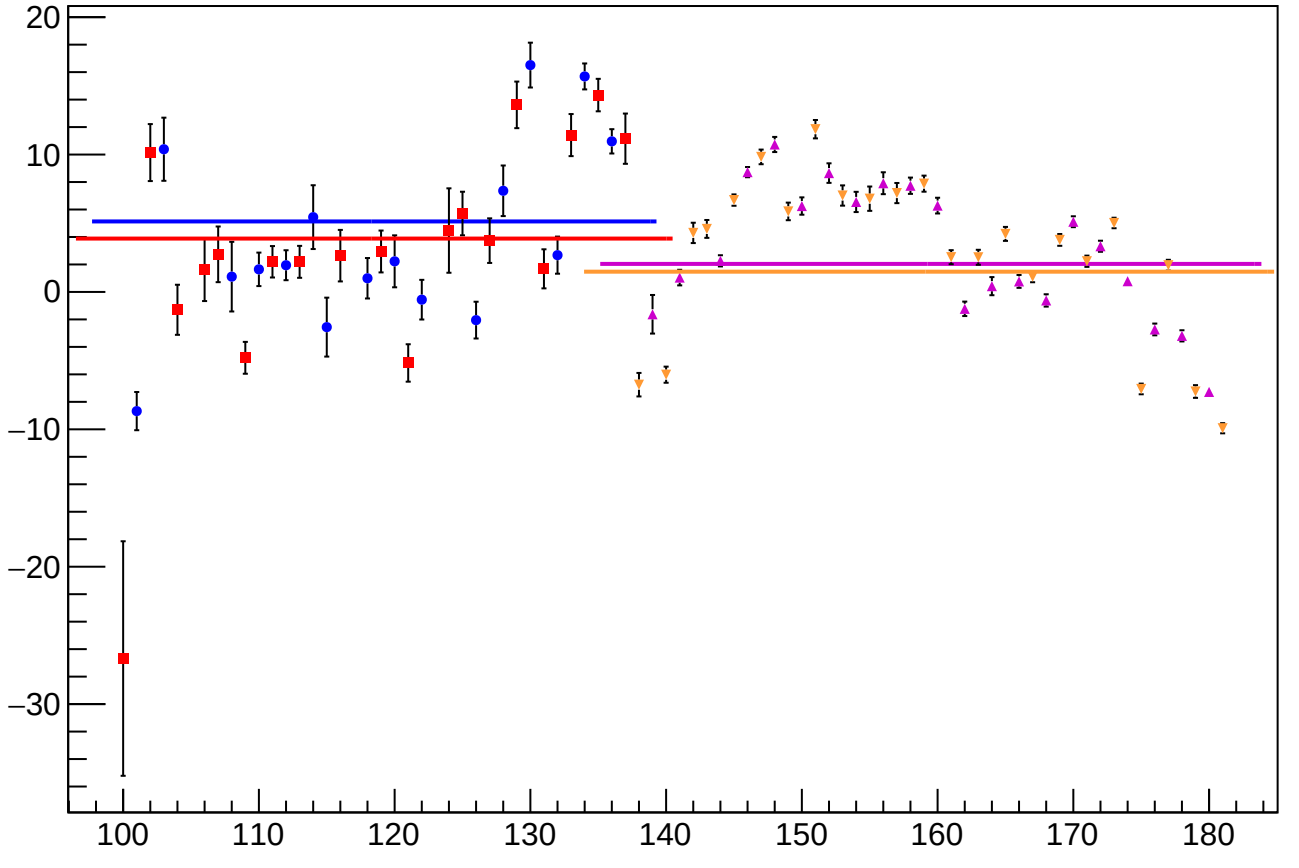
Left: -47.731+/-0.086 $\chi^2$/NDF: 30379.1/43

Right: -76.801+/-0.231 $\chi^2$/NDF: 1201.1/34

In: -51.369+/-0.115 $\chi^2$/NDF:21281.4/36

Out: -51.170+/-0.113 $\chi^2$/NDF:24148.7/41

All: -51.267+/-0.081 $\chi^2$/NDF: 45431.6/78




Right In: 5.132+/-0.350 $\chi^2$/NDF: 412.3/15

Left Out: 1.475+/-0.105 $\chi^2$/NDF:3194.9/22

Right Out: 3.885+/-0.361 $\chi^2$/NDF: 291.5/18

Left In: 2.041+/-0.106 $\chi^2$/NDF:2055.5/20

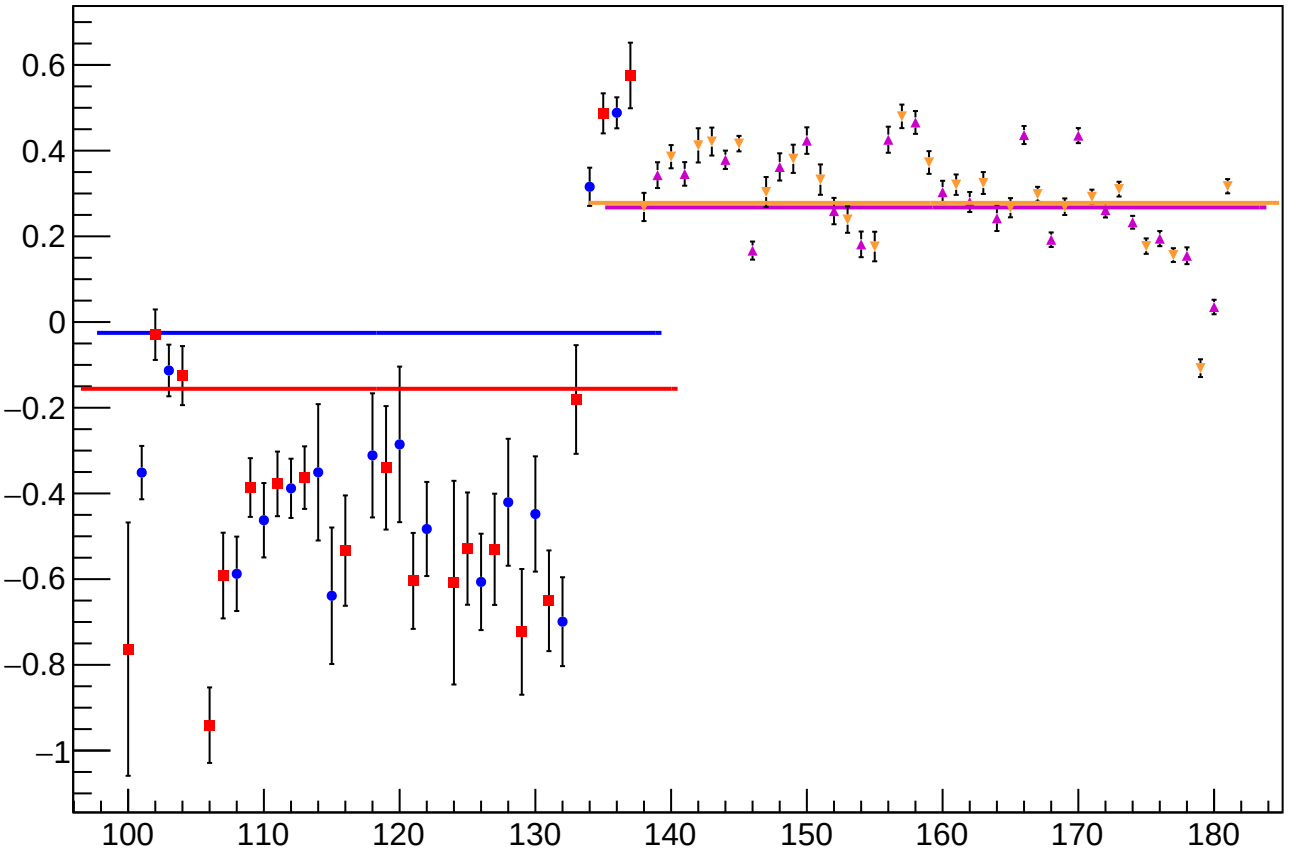
Left: 1.754+/-0.075 $\chi^2$/NDF: 5264.7/43

Right: 4.529+/-0.251 $\chi^2$/NDF: 710.0/34

In: 2.302+/-0.102 $\chi^2$/NDF:2539.4/36

Out: 1.662+/-0.101 $\chi^2$/NDF:3527.3/41

All: 1.979+/-0.072 $\chi^2$/NDF: 6086.7/78




Right In: -0.025+/-0.019 $\chi^2$/NDF: 512.5/15

Left Out: 0.278+/-0.005 $\chi^2$/NDF:646.9/22

Right Out: -0.156+/-0.020 $\chi^2$/NDF: 494.9/18

Left In: 0.267+/-0.005 $\chi^2$/NDF:610.2/20

Left: 0.273+/-0.003 $\chi^2$/NDF: 1259.7/43

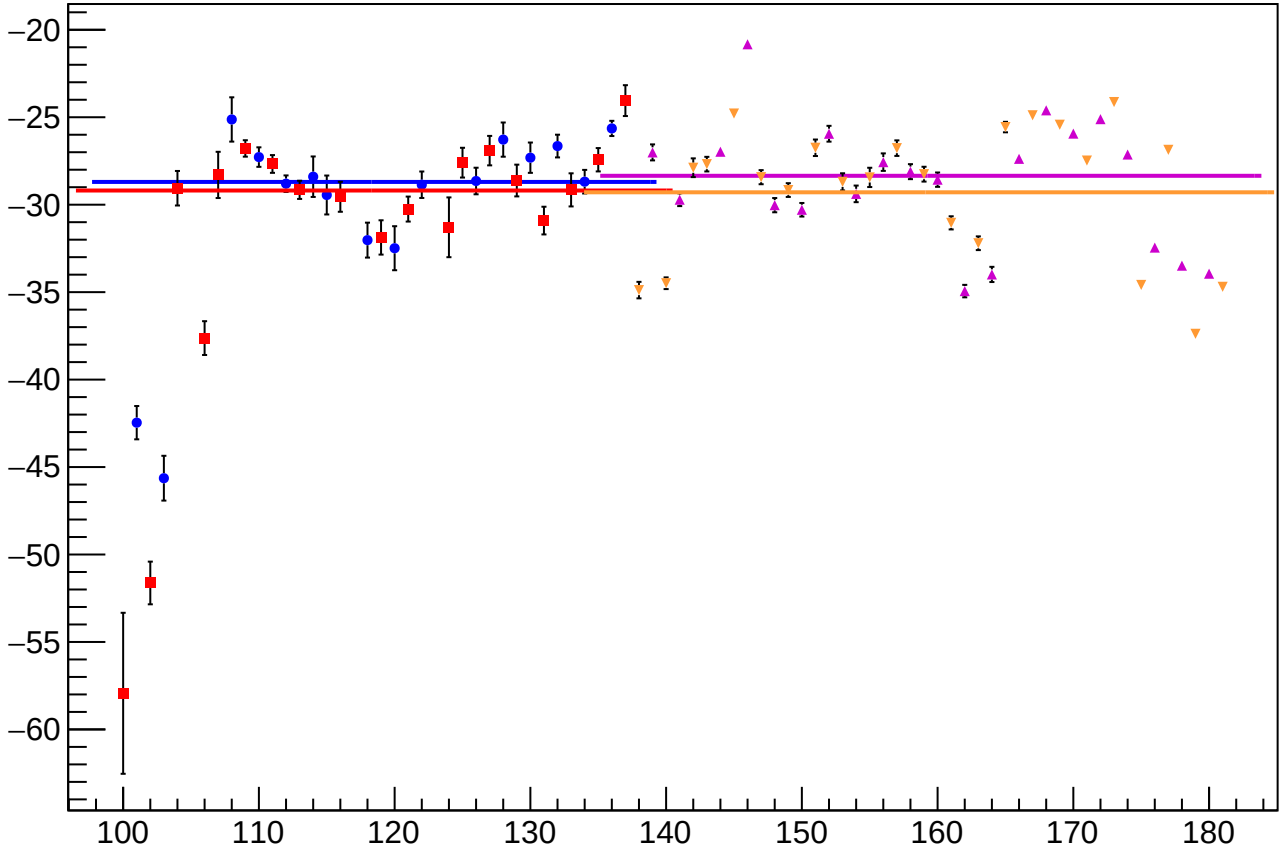
Right: -0.086+/-0.014 $\chi^2$/NDF: 1029.5/34

In: 0.250+/-0.005 $\chi^2$/NDF:1347.3/36

Out: 0.256+/-0.005 $\chi^2$/NDF:1579.0/41

All: 0.253+/-0.003 $\chi^2$/NDF: 2927.0/78

reg_asym_sam_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -28.698+/-0.186 $\chi^2$/NDF: 487.3/15

Left Out: -29.291+/-0.059 $\chi^2$/NDF:5445.5/22

Right Out: -29.189+/-0.181 $\chi^2$/NDF: 557.3/18

Left In: -28.348+/-0.060 $\chi^2$/NDF:4337.5/20

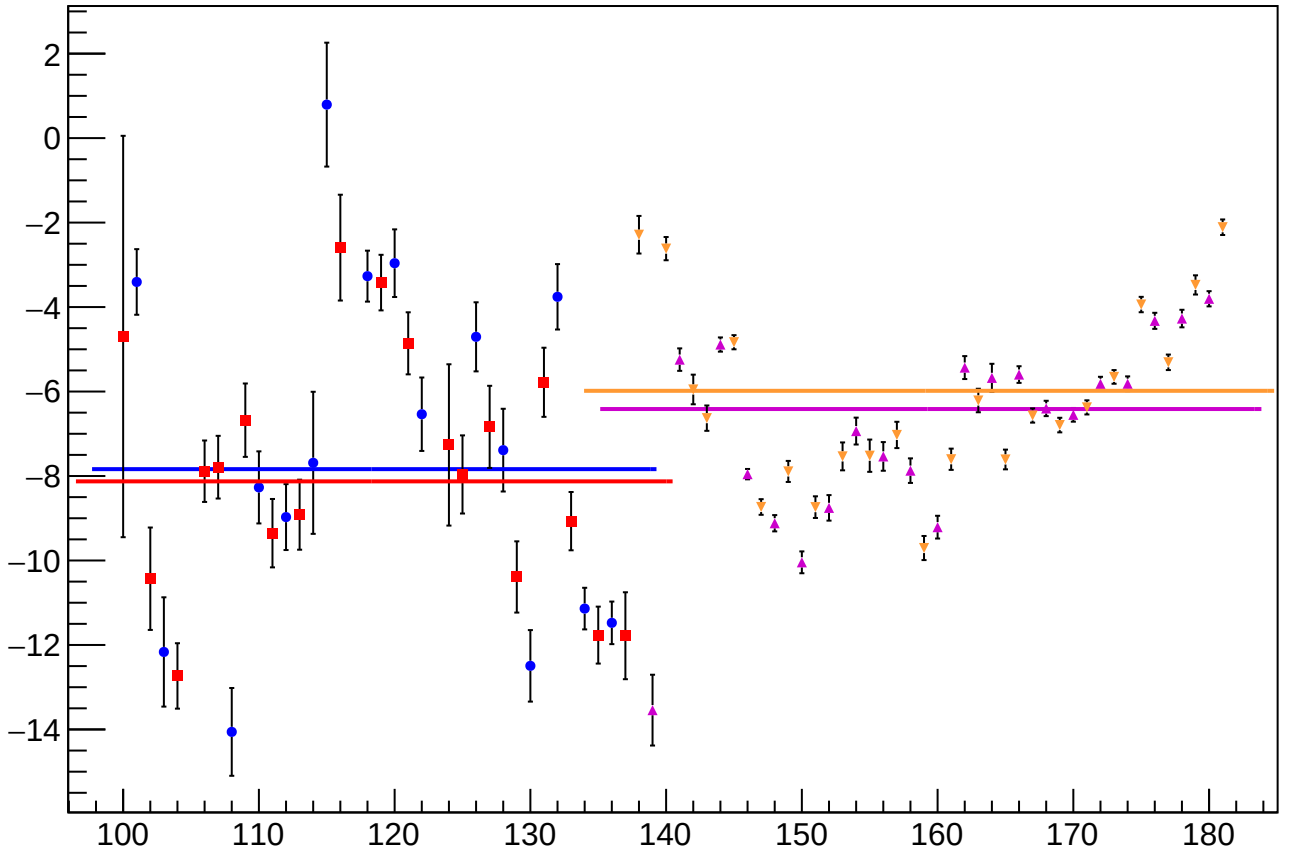
Left: -28.826+/-0.042 $\chi^2$/NDF: 9907.2/43

Right: -28.950+/-0.130 $\chi^2$/NDF: 1048.2/34

In: -28.381+/-0.057 $\chi^2$/NDF:4828.1/36

Out: -29.281+/-0.057 $\chi^2$/NDF:6003.1/41

All: -28.838+/-0.040 $\chi^2$/NDF: 10956.2/78




Right In: -7.837+/-0.195 $\chi^2$/NDF: 383.2/15

Left Out: -5.983+/-0.046 $\chi^2$/NDF:1723.2/22

Right Out: -8.127+/-0.197 $\chi^2$/NDF: 197.3/18

Left In: -6.414+/-0.046 $\chi^2$/NDF:1429.3/20

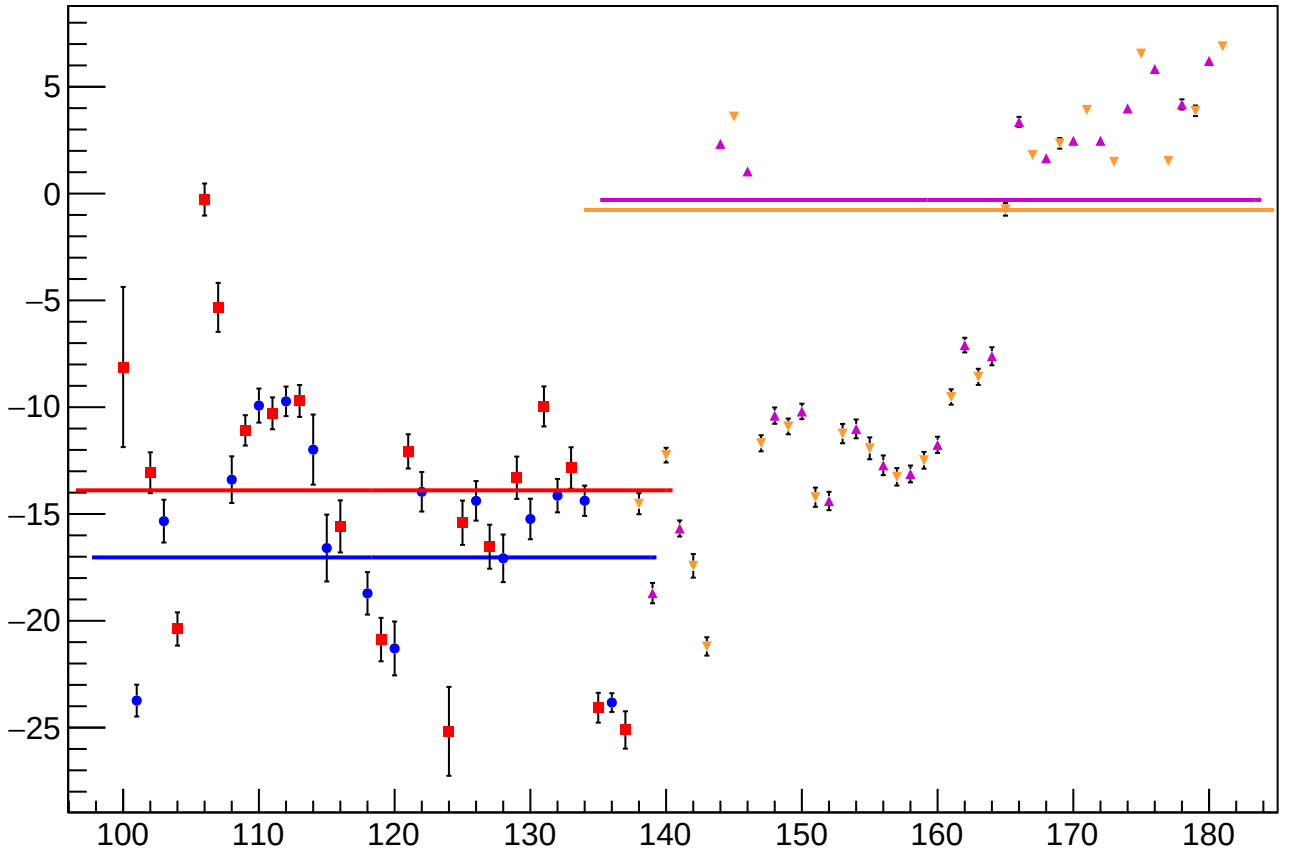
Left: -6.201+/-0.032 $\chi^2$/NDF: 3196.8/43

Right: -7.981+/-0.138 $\chi^2$/NDF: 581.6/34

In: -6.488+/-0.044 $\chi^2$/NDF:1863.1/36

Out: -6.095+/-0.045 $\chi^2$/NDF:2033.2/41

All: -6.293+/-0.032 $\chi^2$/NDF: 3935.1/78




Right In: -17.033+/-0.209 $\chi^2$/NDF: 601.2/15

Left Out: -0.766+/-0.060 $\chi^2$/NDF:16467.5/22

Right Out: -13.892+/-0.209 $\chi^2$/NDF: 1017.4/18

Left In: -0.297+/-0.060 $\chi^2$/NDF:13228.4/20

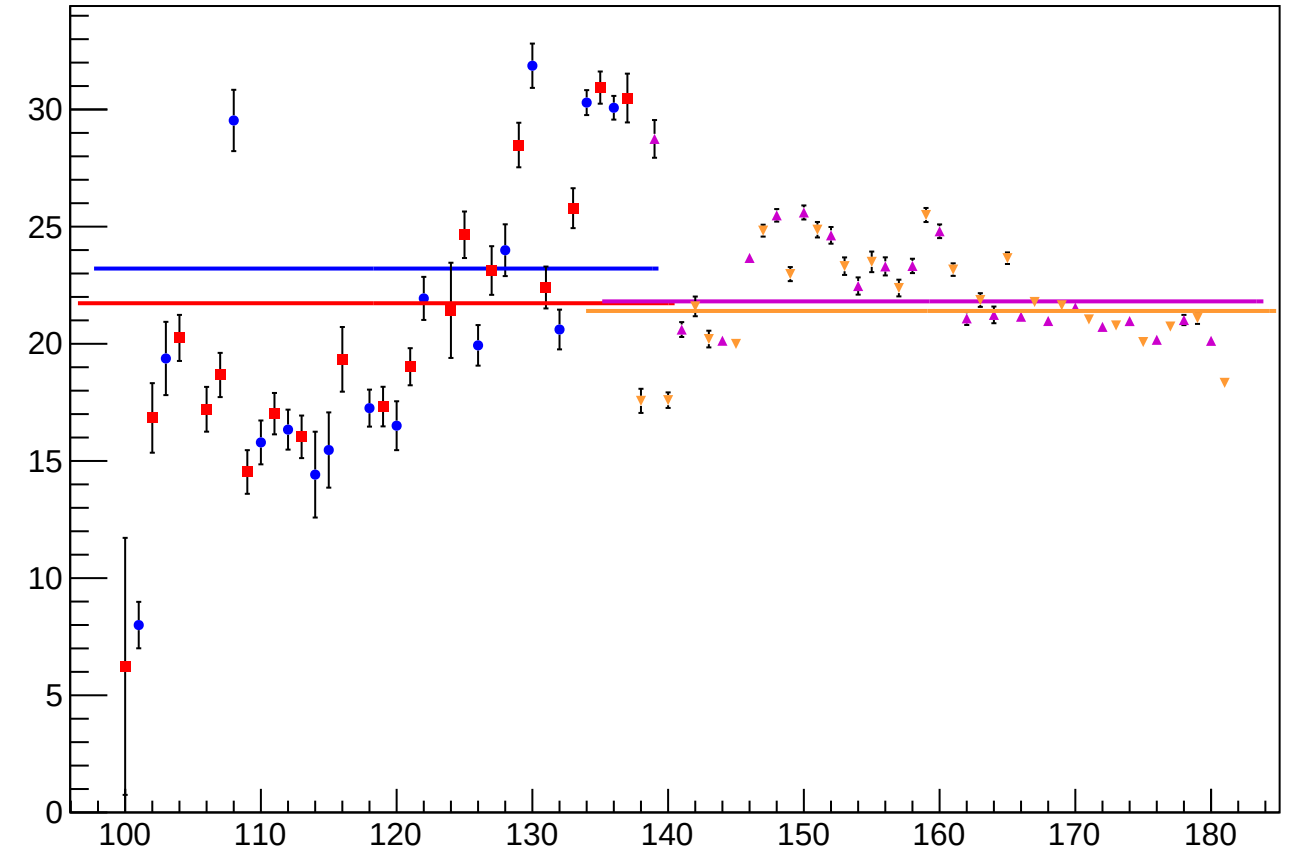
Left: -0.533+/-0.042 $\chi^2$/NDF: 29726.6/43

Right: -15.462+/-0.148 $\chi^2$/NDF: 1731.1/34

In: -1.569+/-0.058 $\chi^2$/NDF:19733.1/36

Out: -1.747+/-0.057 $\chi^2$/NDF:21123.1/41

All: -1.659+/-0.041 $\chi^2$/NDF: 40861.0/78




Right In: 23.211+/-0.218 $\chi^2$/NDF: 1008.2/15

Left Out: 21.401+/-0.052 $\chi^2$/NDF:1272.6/22

Right Out: 21.731+/-0.224 $\chi^2$/NDF: 558.2/18

Left In: 21.810+/-0.051 $\chi^2$/NDF:1112.5/20

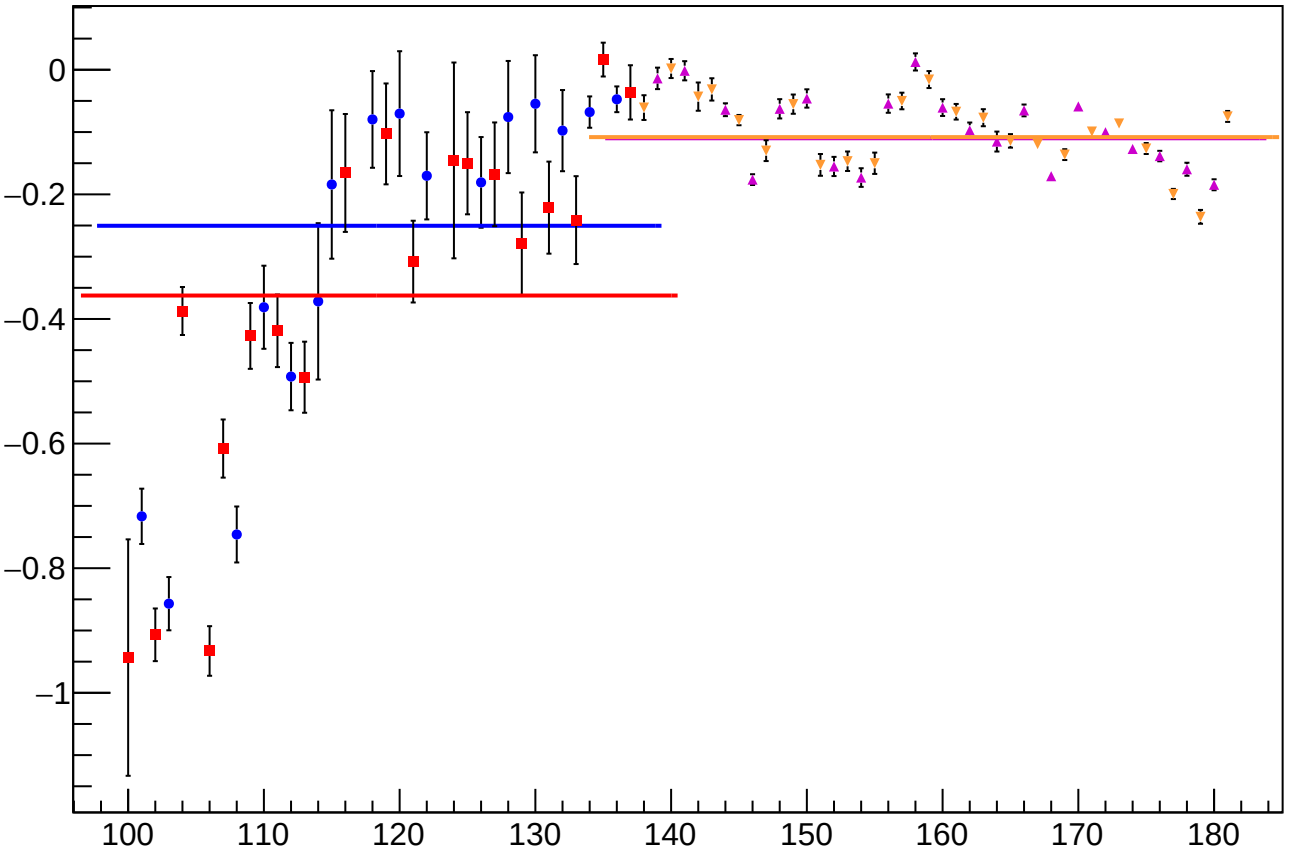
Left: 21.607+/-0.036 $\chi^2$/NDF: 2416.7/43

Right: 22.492+/-0.156 $\chi^2$/NDF: 1588.8/34

In: 21.884+/-0.050 $\chi^2$/NDF:2159.8/36

Out: 21.418+/-0.050 $\chi^2$/NDF:1832.9/41

All: 21.652+/-0.035 $\chi^2$/NDF: 4035.9/78




Right In: -0.250+/-0.012 $\chi^2$/NDF: 633.5/15

Left Out: -0.108+/-0.002 $\chi^2$/NDF:506.0/22

Right Out: -0.362+/-0.012 $\chi^2$/NDF: 704.3/18

Left In: -0.110+/-0.002 $\chi^2$/NDF:558.4/20

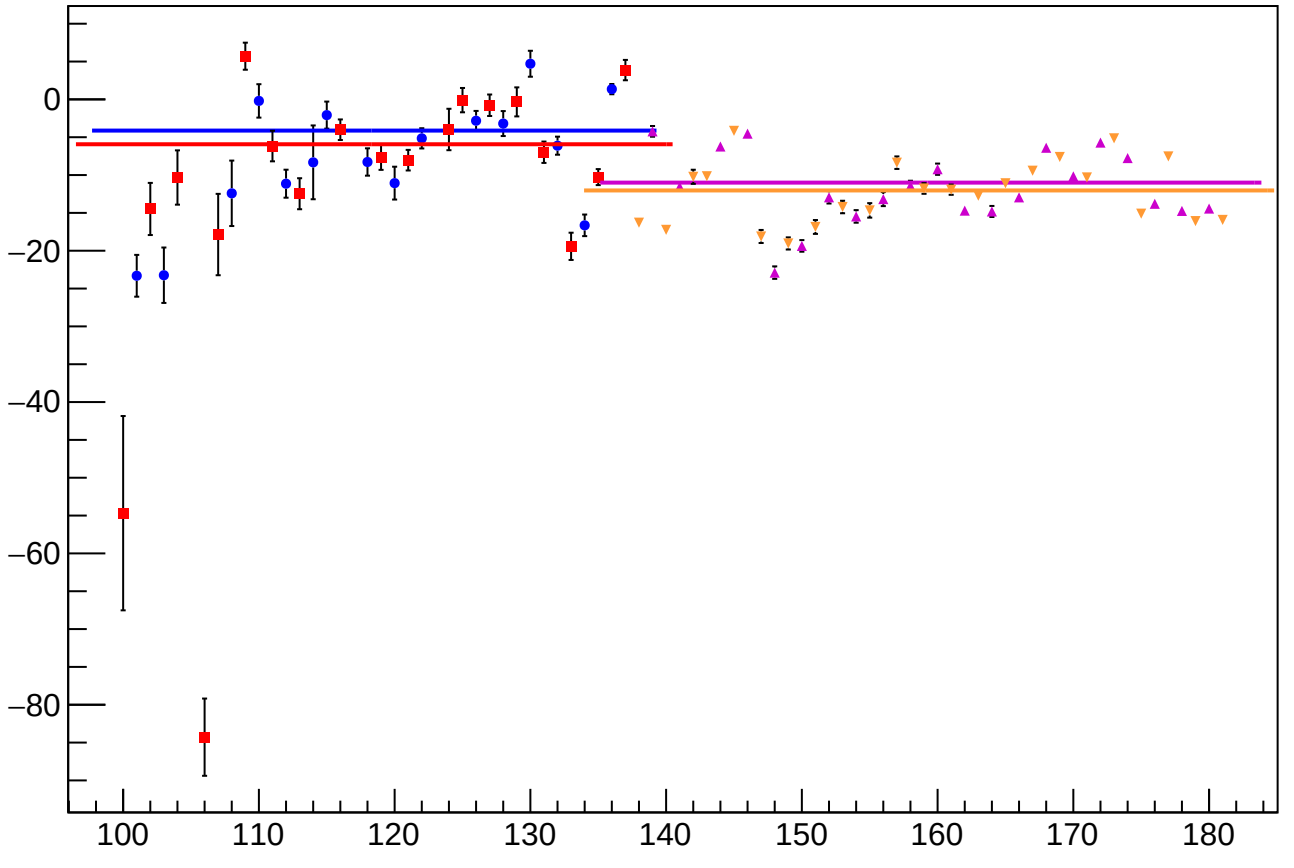
Left: -0.109+/-0.002 $\chi^2$/NDF: 1064.8/43

Right: -0.303+/-0.008 $\chi^2$/NDF: 1381.3/34

In: -0.115+/-0.002 $\chi^2$/NDF:1331.5/36

Out: -0.117+/-0.002 $\chi^2$/NDF:1620.0/41

All: -0.116+/-0.002 $\chi^2$/NDF: 2951.7/78




Right In: -4.124+/-0.382 $\chi^2$/NDF: 287.9/15

Left Out: -12.034+/-0.098 $\chi^2$/NDF:1914.5/22

Right Out: -5.930+/-0.408 $\chi^2$/NDF: 482.6/18

Left In: -11.000+/-0.103 $\chi^2$/NDF:1658.8/20

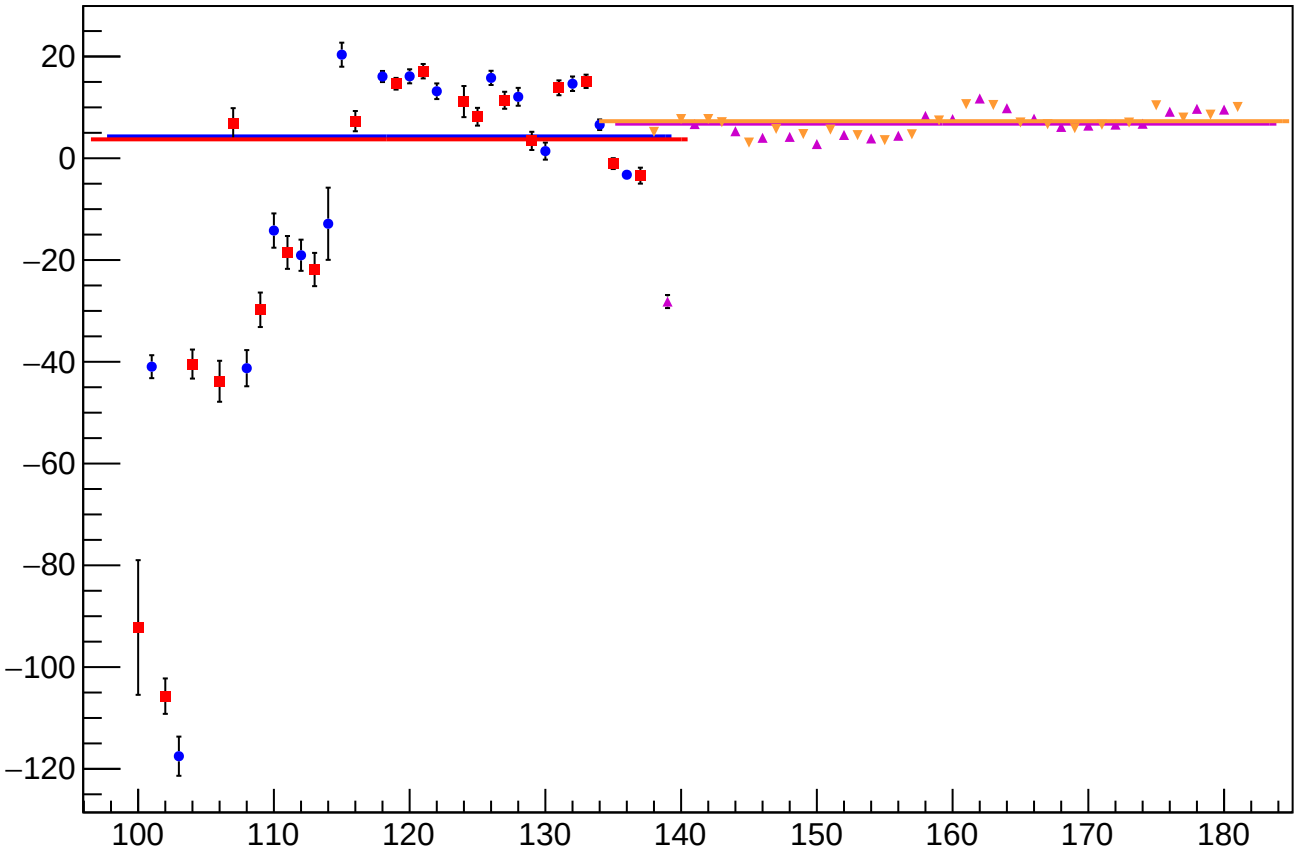
Left: -11.540+/-0.071 $\chi^2$/NDF: 3626.0/43

Right: -4.968+/-0.279 $\chi^2$/NDF: 781.0/34

In: -10.533+/-0.099 $\chi^2$/NDF:2249.1/36

Out: -11.698+/-0.096 $\chi^2$/NDF:2608.9/41

All: -11.138+/-0.069 $\chi^2$/NDF: 4929.3/78




Right In: 4.292+/-0.385 $\chi^2$/NDF: 2169.1/15

Left Out: 7.285+/-0.079 $\chi^2$/NDF:731.5/22

Right Out: 3.717+/-0.423 $\chi^2$/NDF: 2007.2/18

Left In: 6.800+/-0.080 $\chi^2$/NDF:1488.6/20

Left: 7.046+/-0.056 $\chi^2$/NDF: 2238.7/43

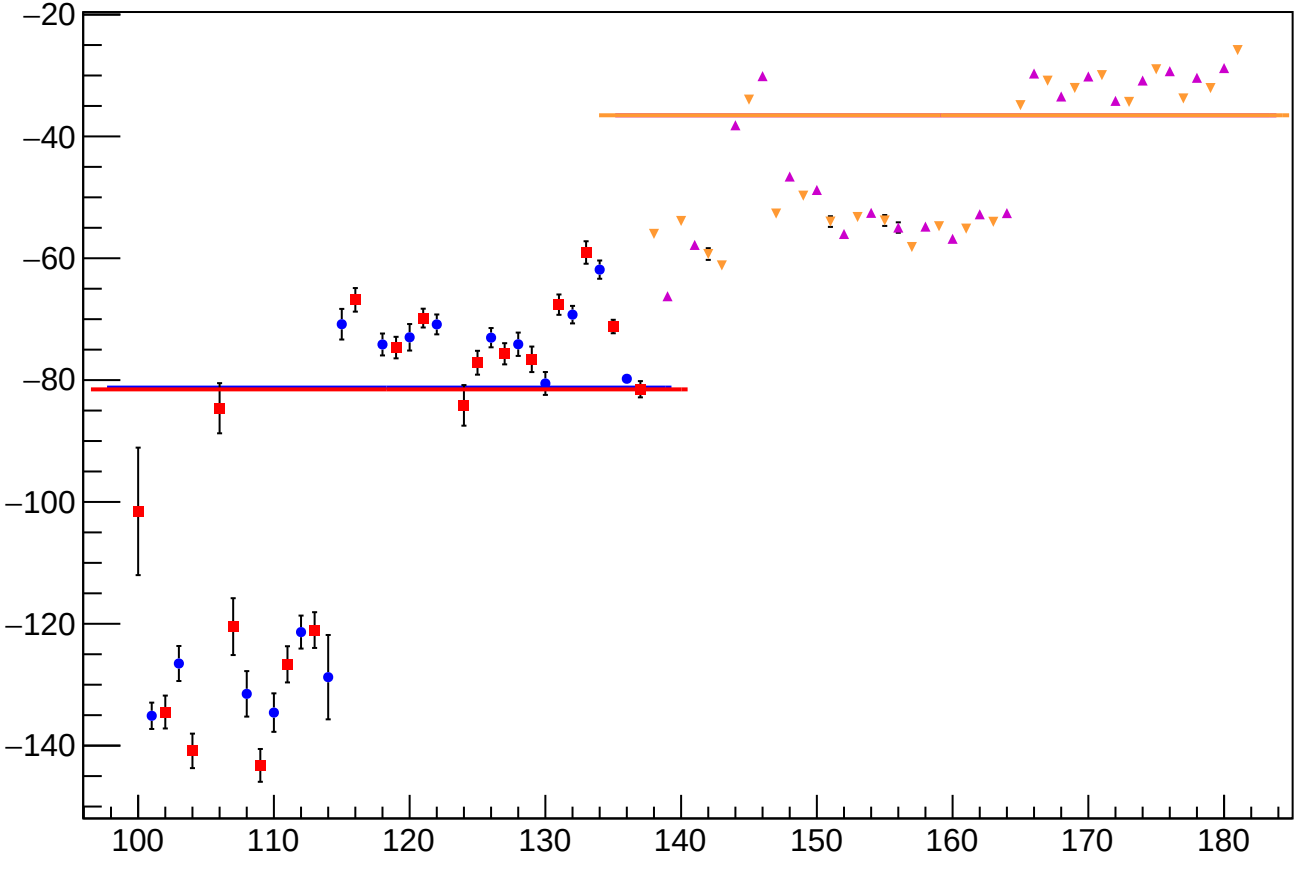
Right: 4.031+/-0.285 $\chi^2$/NDF: 4177.4/34

In: 6.696+/-0.079 $\chi^2$/NDF:3698.4/36

Out: 7.165+/-0.078 $\chi^2$/NDF:2807.6/41

All: 6.933+/-0.055 $\chi^2$/NDF: 6524.0/78

reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -81.231+/-0.417 $\chi^2$/NDF: 1971.1/15

Left Out: -36.530+/-0.099 $\chi^2$/NDF:12183.5/22

Right Out: -81.523+/-0.462 $\chi^2$/NDF: 2293.2/18

Left In: -36.540+/-0.103 $\chi^2$/NDF:10410.6/20

Left: -36.535+/-0.071 $\chi^2$/NDF: 22594.2/43

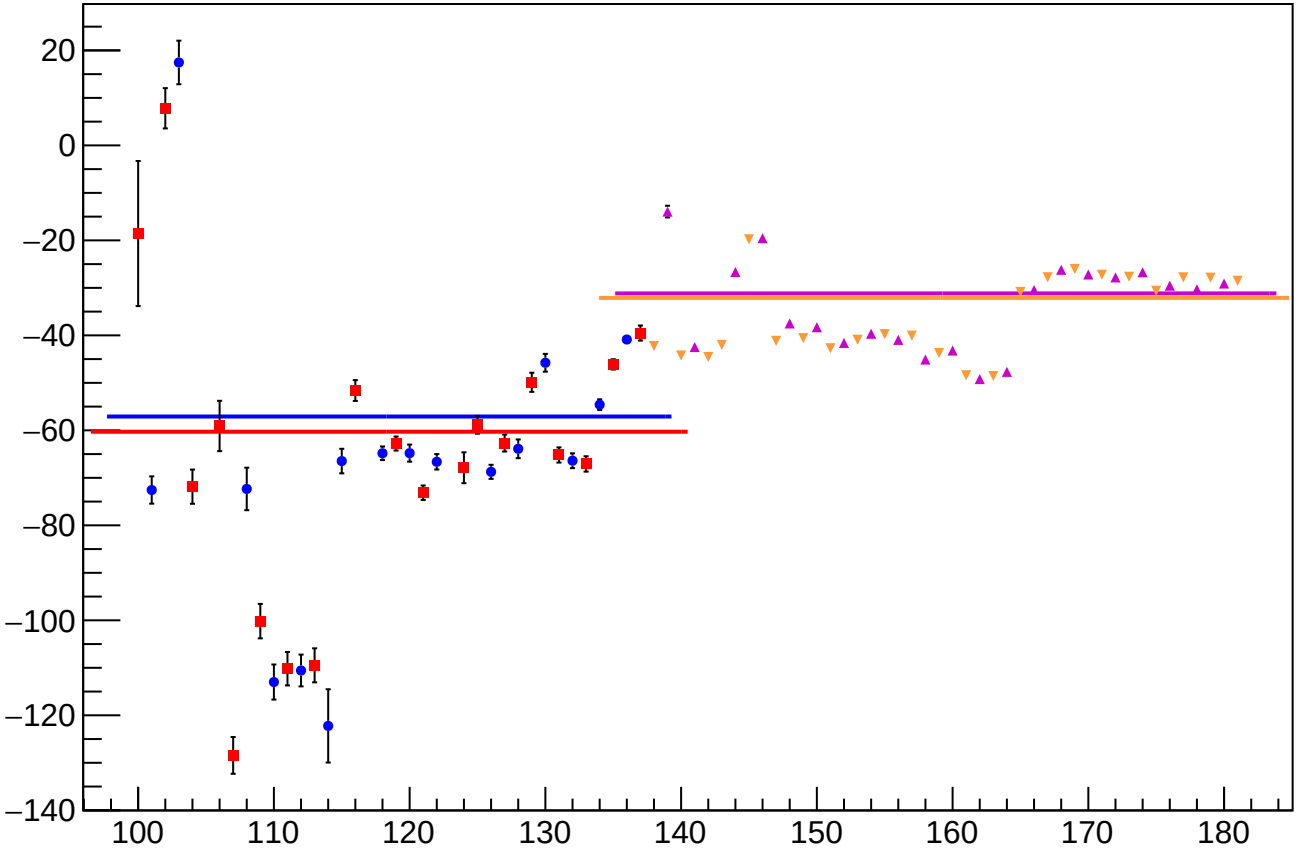
Right: -81.362+/-0.309 $\chi^2$/NDF: 4264.5/34

In: -39.098+/-0.100 $\chi^2$/NDF:23218.9/36

Out: -38.503+/-0.097 $\chi^2$/NDF:23560.9/41

All: -38.791+/-0.069 $\chi^2$/NDF: 46798.2/78

reg_asym_sam_26_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -57.089+/-0.426 $\chi^2$/NDF: 1526.8/15

Left Out: -32.109+/-0.088 $\chi^2$/NDF:7951.6/22

Right Out: -60.287+/-0.470 $\chi^2$/NDF: 1587.9/18

Left In: -31.167+/-0.089 $\chi^2$/NDF:7362.9/20

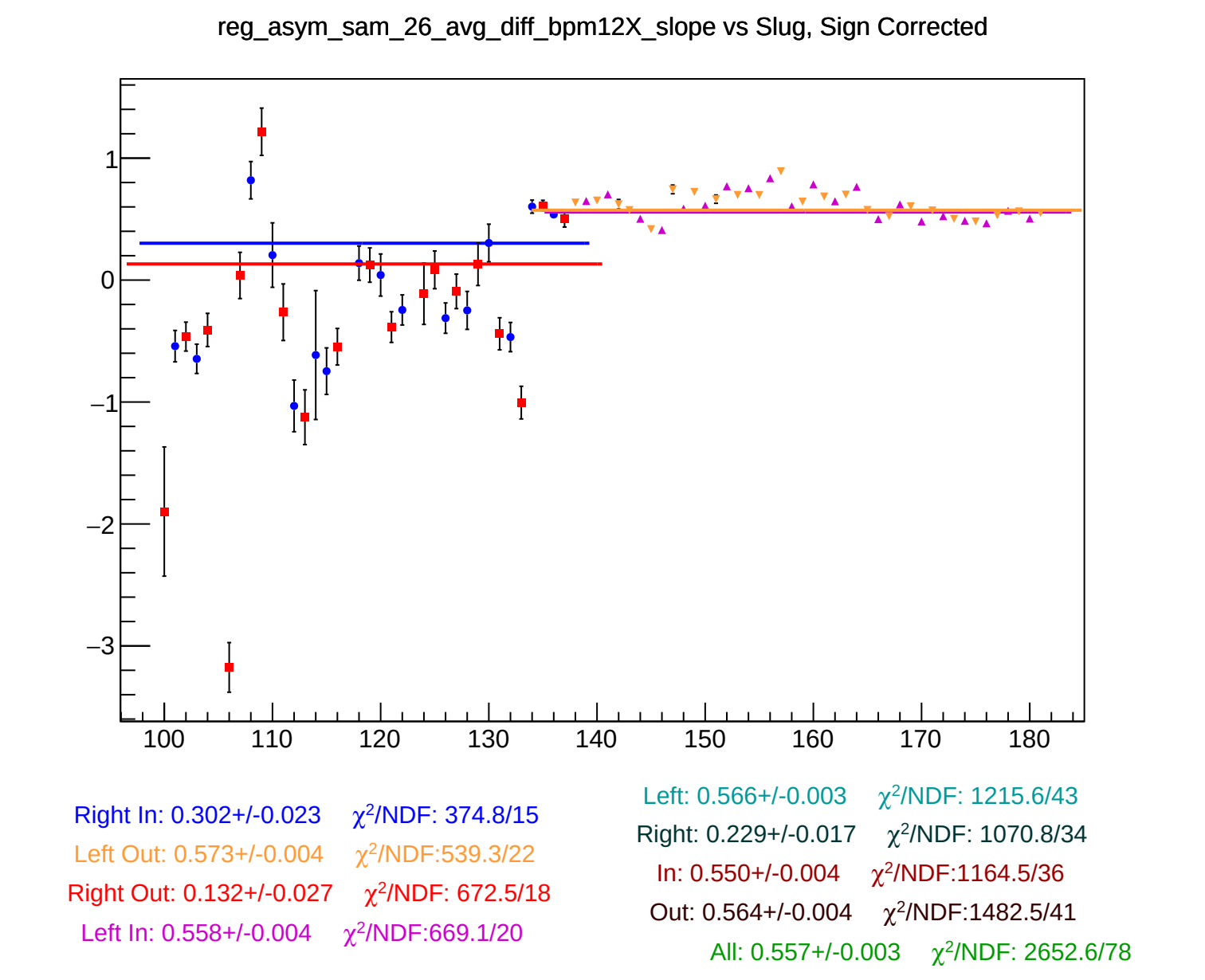
Left: -31.647+/-0.063 $\chi^2$/NDF: 15371.0/43

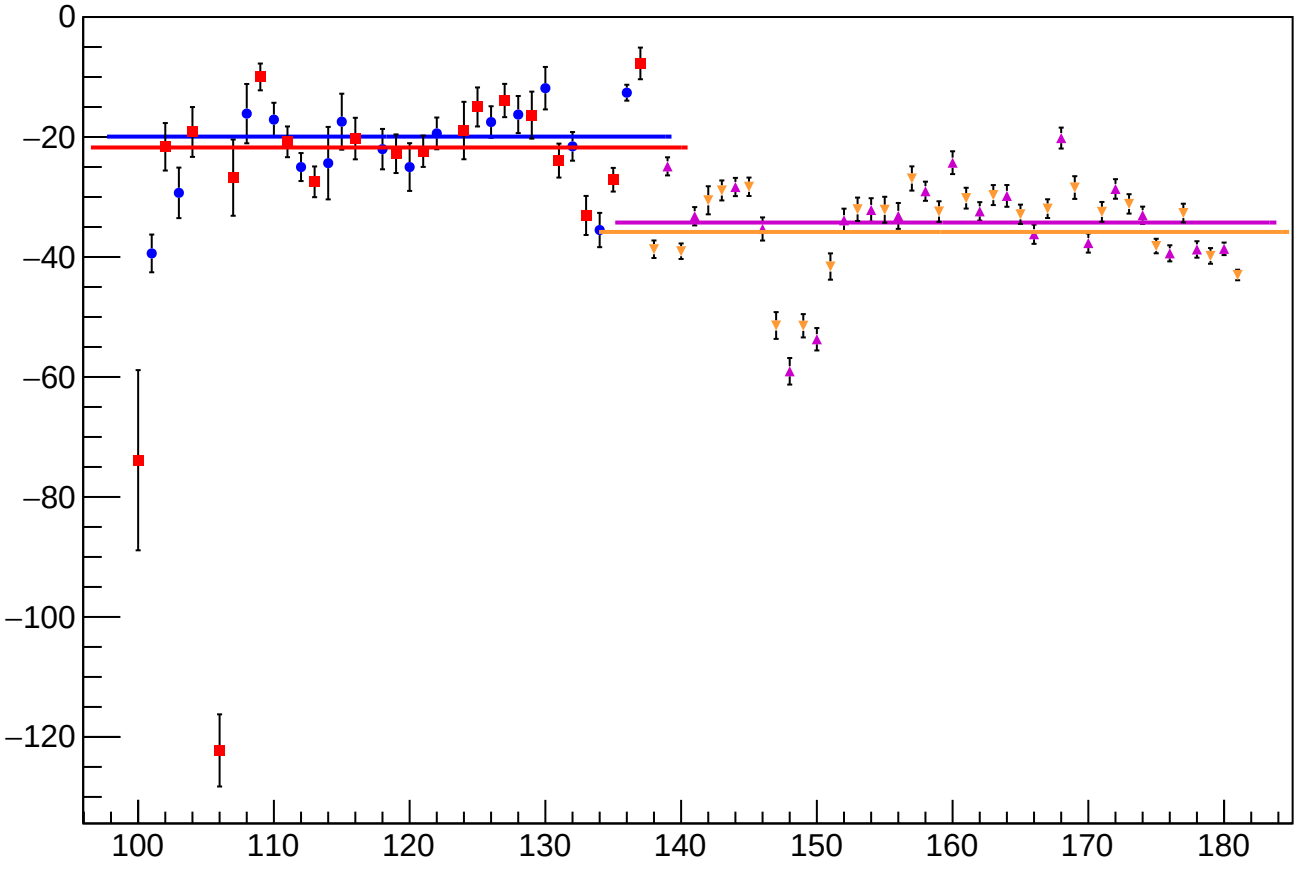
Right: -58.530+/-0.316 $\chi^2$/NDF: 3140.1/34

In: -32.263+/-0.088 $\chi^2$/NDF:12440.4/36

Out: -33.056+/-0.086 $\chi^2$/NDF:13012.7/41

All: -32.666+/-0.061 $\chi^2$/NDF: 25494.8/78


reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected
1
0
−1
−2
−3
100
110
120
130
140
150
160
170
180
Right In: 0.302+/-0.023 χ²/NDF: 374.8/15
Left Out: 0.573+/-0.004 χ²/NDF:539.3/22
Right Out: 0.132+/-0.027 χ²/NDF: 672.5/18
Left In: 0.558+/-0.004 χ²/NDF:669.1/20
Left: 0.566+/-0.003 χ²/NDF: 1215.6/43
Right: 0.229+/-0.017 χ²/NDF: 1070.8/34
In: 0.550+/-0.004 χ²/NDF:1164.5/36
Out: 0.564+/-0.004 χ²/NDF:1482.5/41
All: 0.557+/-0.003 χ²/NDF: 2652.6/78




Right In: -19.935+/-0.695 $\chi^2$/NDF: 120.6/15

Left Out: -35.826+/-0.329 $\chi^2$/NDF:352.2/22

Right Out: -21.746+/-0.714 $\chi^2$/NDF: 388.3/18

Left In: -34.259+/-0.350 $\chi^2$/NDF:462.0/20

Left: -35.092+/-0.240 $\chi^2$/NDF: 824.9/43

Right: -20.816+/-0.498 $\chi^2$/NDF: 512.2/34

In: -31.359+/-0.313 $\chi^2$/NDF:921.6/36

Out: -33.363+/-0.299 $\chi^2$/NDF:1061.7/41

All: -32.407+/-0.216 $\chi^2$/NDF: 2004.8/78

reg_asym_sam_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected

Right In: -52.296+/-0.708 $\chi^2$/NDF: 1778.2/15

Left Out: -35.239+/-0.254 $\chi^2$/NDF:515.9/22

Right Out: -52.737+/-0.748 $\chi^2$/NDF: 1662.5/18

Left In: -35.842+/-0.269 $\chi^2$/NDF:1524.5/20

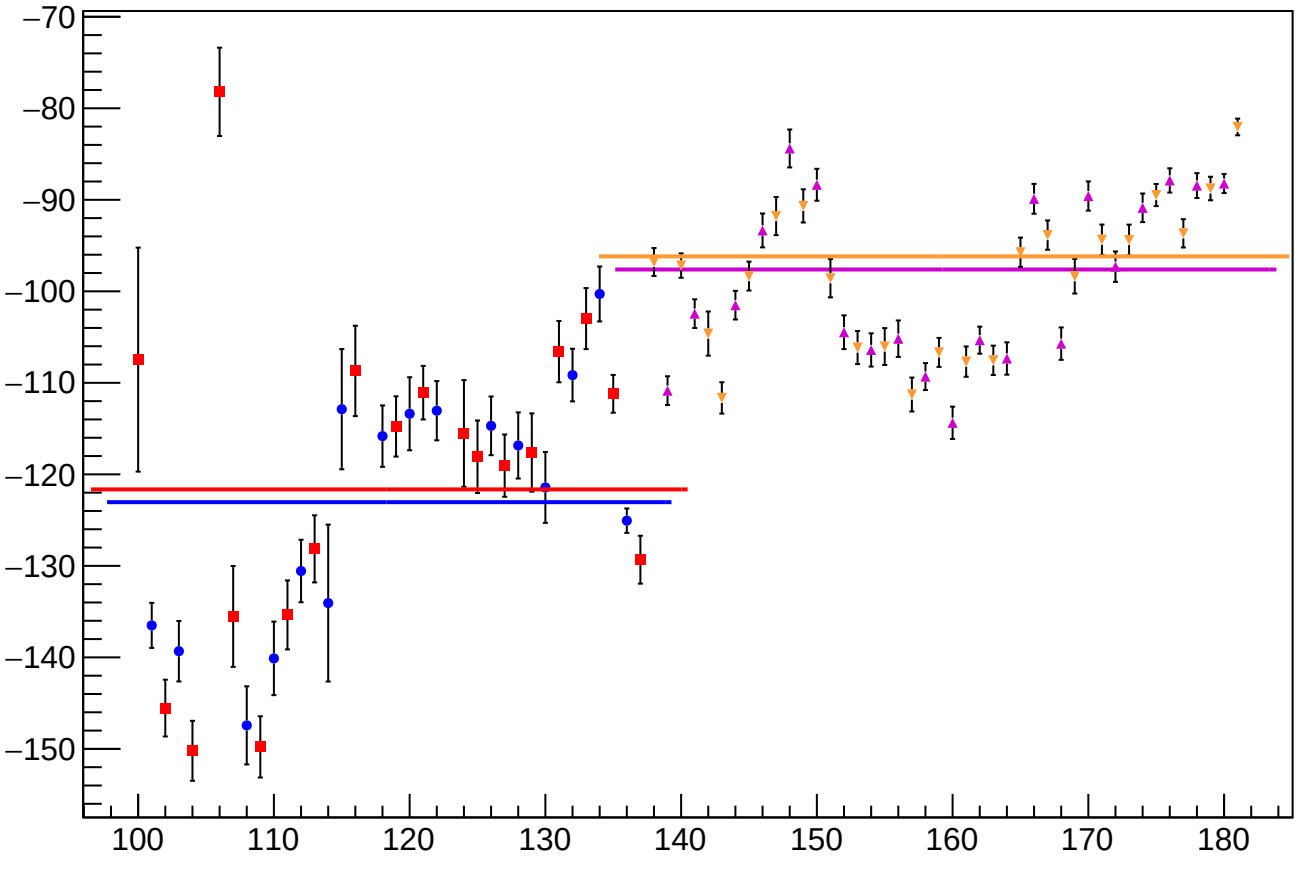
Left: -35.524+/-0.185 $\chi^2$/NDF: 2043.1/43

Right: -52.505+/-0.514 $\chi^2$/NDF: 3440.9/34

In: -37.911+/-0.251 $\chi^2$/NDF:3774.8/36

Out: -37.050+/-0.241 $\chi^2$/NDF:2668.7/41

All: -37.463+/-0.174 $\chi^2$/NDF: 6449.7/78




Right In: -123.039+/-0.750 $\chi^2$/NDF: 226.8/15

Left Out: -96.184+/-0.327 $\chi^2$/NDF:687.1/22

Right Out: -121.646+/-0.801 $\chi^2$/NDF: 424.5/18

Left In: -97.616+/-0.346 $\chi^2$/NDF:691.5/20

Left: -96.861+/-0.237 $\chi^2$/NDF: 1387.7/43

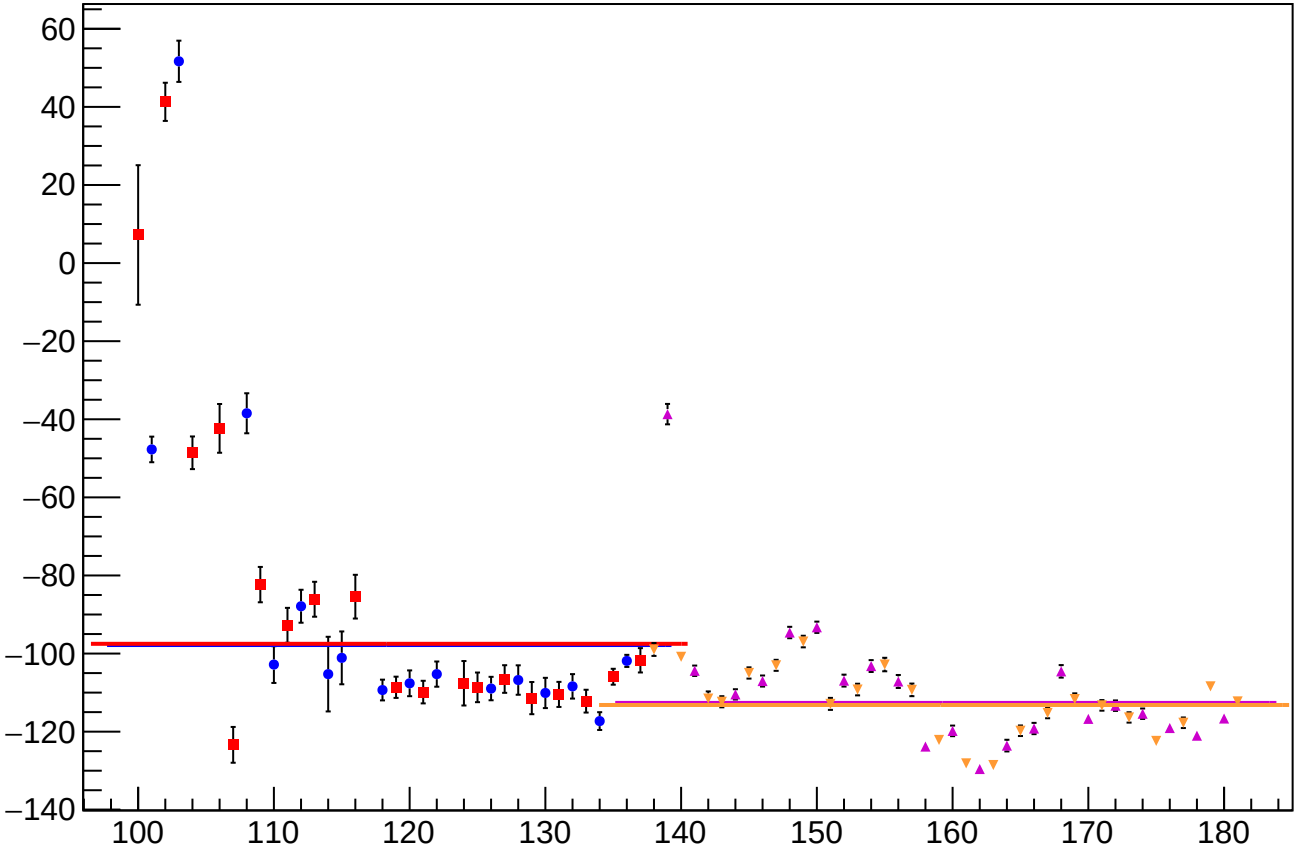
Right: -122.388+/-0.548 $\chi^2$/NDF: 652.9/34

In: -102.068+/-0.314 $\chi^2$/NDF:1866.2/36

Out: -99.818+/-0.303 $\chi^2$/NDF:1977.4/41

All: -100.902+/-0.218 $\chi^2$/NDF: 3870.2/78

reg_asym_sam_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -97.814+/-0.793 $\chi^2$/NDF: 1330.8/15

Left Out: -113.168+/-0.286 $\chi^2$/NDF:888.8/22

Right Out: -97.504+/-0.843 $\chi^2$/NDF: 1236.4/18

Left In: -112.642+/-0.300 $\chi^2$/NDF:1762.5/20

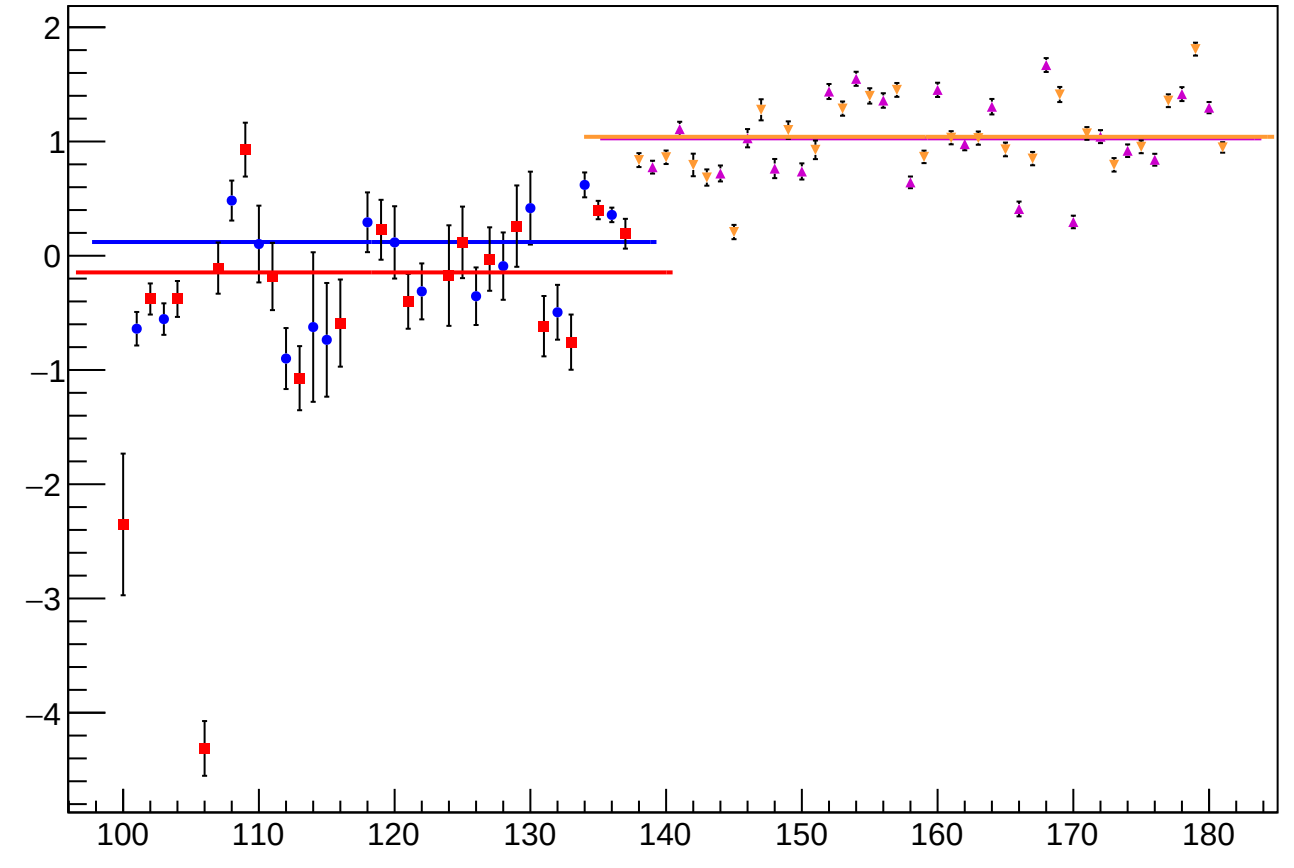
Left: -112.918+/-0.207 $\chi^2$/NDF: 2653.0/43

Right: -97.668+/-0.578 $\chi^2$/NDF: 2567.3/34

In: -110.785+/-0.281 $\chi^2$/NDF:3399.2/36

Out: -111.551+/-0.271 $\chi^2$/NDF:2435.1/41

All: -111.182+/-0.195 $\chi^2$/NDF: 5838.2/78




Right In: 0.120+/-0.041 $\chi^2$/NDF: 123.9/15

Left Out: 1.041+/-0.013 $\chi^2$/NDF:622.6/22

Right Out: -0.146+/-0.045 $\chi^2$/NDF: 421.0/18

Left In: 1.028+/-0.013 $\chi^2$/NDF:790.8/20

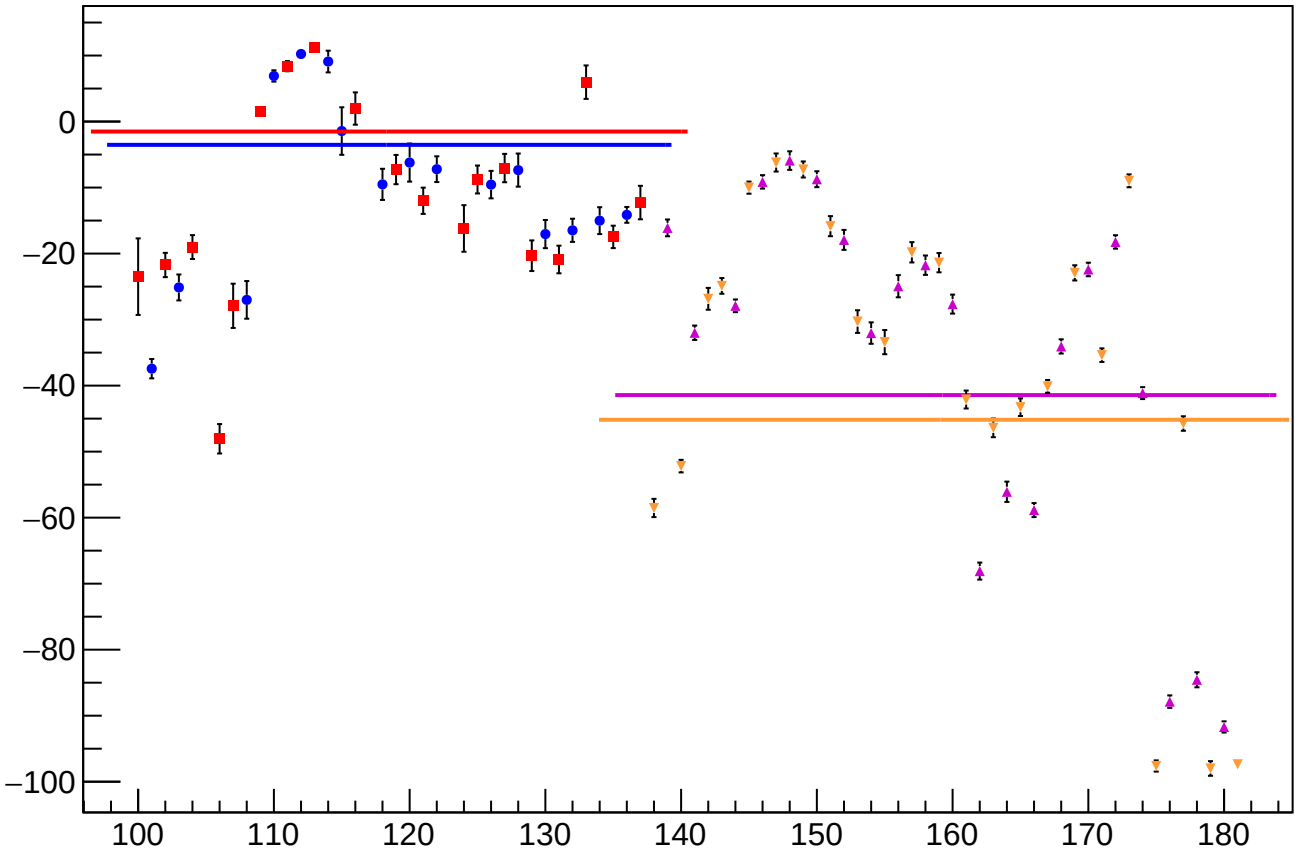
Left: 1.035+/-0.009 $\chi^2$/NDF: 1413.9/43

Right: -0.002+/-0.030 $\chi^2$/NDF: 563.9/34

In: 0.943+/-0.013 $\chi^2$/NDF:1354.1/36

Out: 0.951+/-0.012 $\chi^2$/NDF:1690.1/41

All: 0.947+/-0.009 $\chi^2$/NDF: 3044.4/78




Right In: -3.527+/-0.377 $\chi^2$/NDF: 1529.1/15

Left Out: -45.171+/-0.241 $\chi^2$/NDF:17610.1/22

Right Out: -1.513+/-0.338 $\chi^2$/NDF: 1524.7/18

Left In: -41.435+/-0.250 $\chi^2$/NDF:12728.6/20

Left: -43.374+/-0.173 $\chi^2$/NDF: 30454.4/43

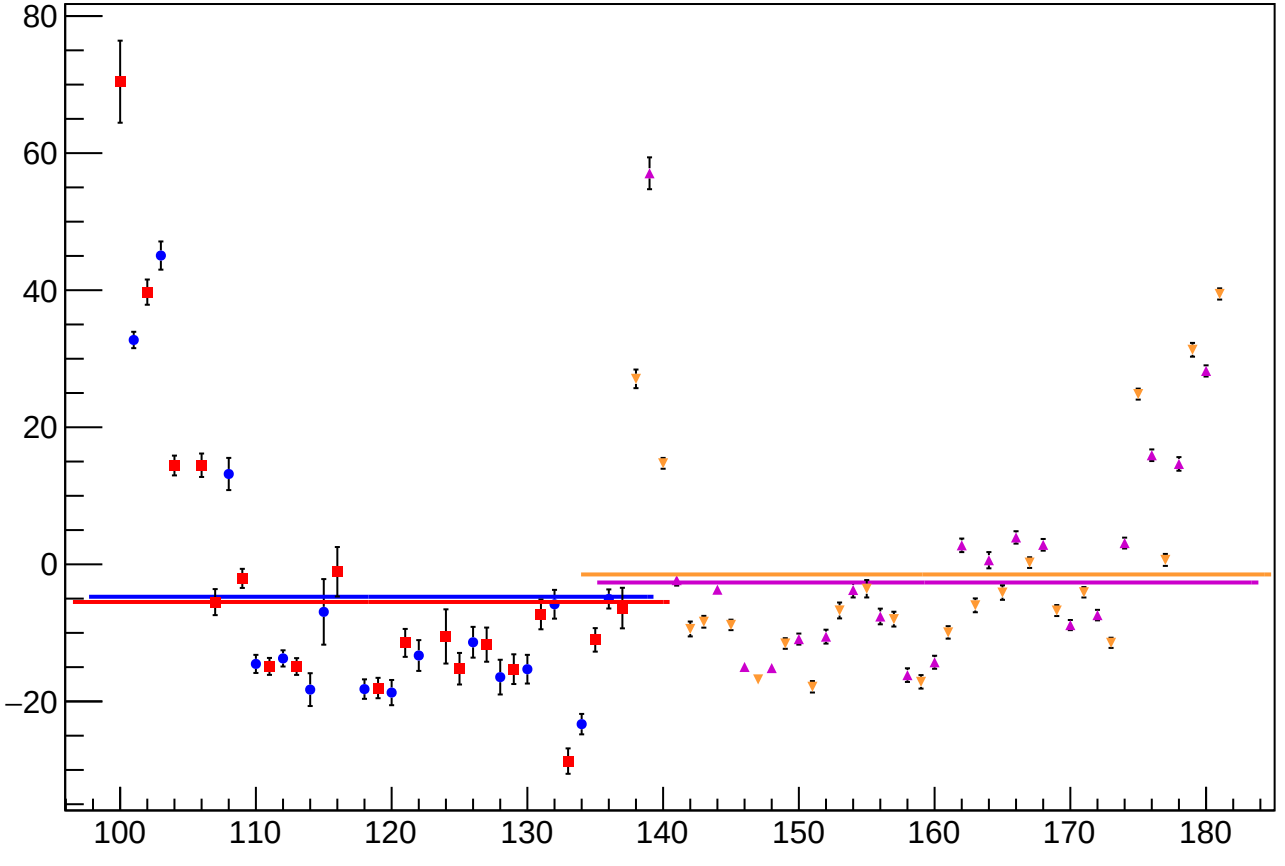
Right: -2.413+/-0.252 $\chi^2$/NDF: 3069.7/34

In: -29.837+/-0.208 $\chi^2$/NDF:21283.6/36

Out: -30.499+/-0.196 $\chi^2$/NDF:30182.5/41

All: -30.188+/-0.143 $\chi^2$/NDF: 51471.5/78

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -4.729+/-0.431 $\chi^2$/NDF: 2148.0/15

Left Out: -1.475+/-0.182 $\chi^2$/NDF:7519.4/22

Right Out: -5.491+/-0.422 $\chi^2$/NDF: 1508.6/18

Left In: -2.649+/-0.188 $\chi^2$/NDF:4435.4/20

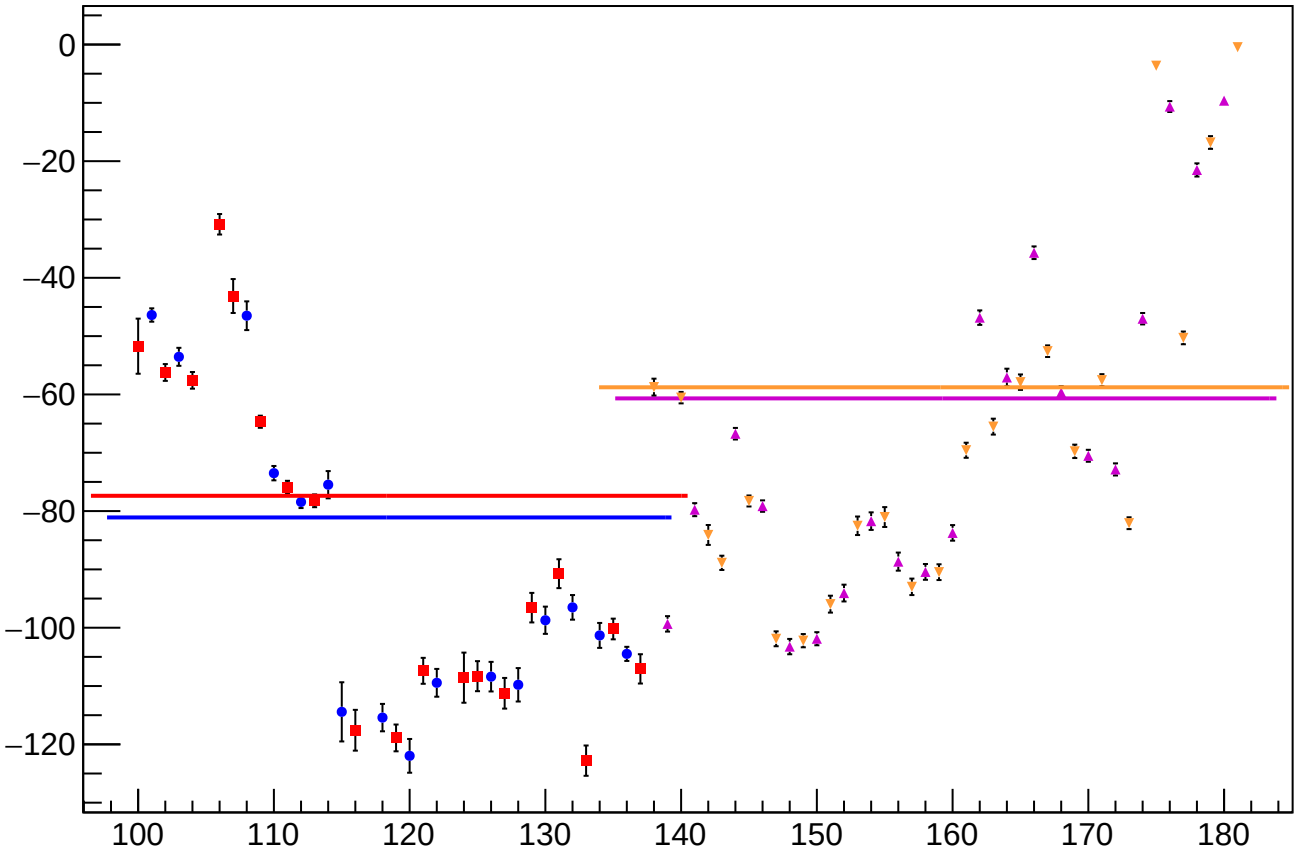
Left: -2.043+/-0.131 $\chi^2$/NDF: 11974.8/43

Right: -5.118+/-0.302 $\chi^2$/NDF: 3658.1/34

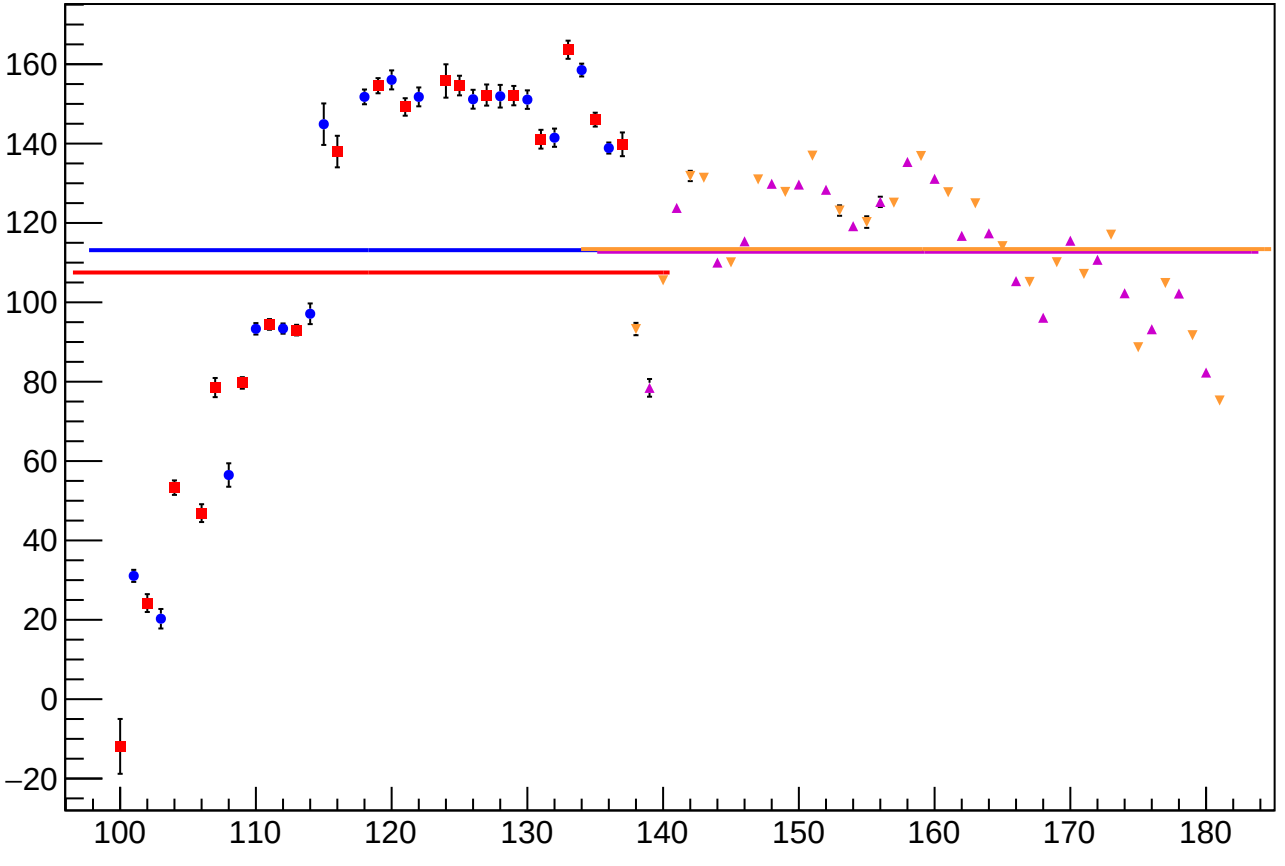
In: -2.983+/-0.173 $\chi^2$/NDF:6603.0/36

Out: -2.107+/-0.167 $\chi^2$/NDF:9104.2/41

All: -2.532+/-0.120 $\chi^2$/NDF: 15720.5/78


reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected
0
−20
−40
−60
−80
−100
−120
100
110
120
130
140
150
160
170
180
Right In: -81.091+/-0.438 χ²/NDF: 2870.3/15
Left Out: -58.774+/-0.240 χ²/NDF:18162.2/22
Right Out: -77.379+/-0.417 χ²/NDF: 3129.7/18
Left In: -60.678+/-0.248 χ²/NDF:14575.4/20
Left: -59.694+/-0.172 χ²/NDF: 32768.0/43
Right: -79.142+/-0.302 χ²/NDF: 6037.6/34
In: -65.627+/-0.216 χ²/NDF:19088.3/36
Out: -63.401+/-0.208 χ²/NDF:22788.6/41
All: -64.472+/-0.150 χ²/NDF: 41932.1/78

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 113.143+/-0.489 $\chi^2$/NDF: 8204.1/15

Left Out: 113.411+/-0.207 $\chi^2$/NDF:6357.0/22

Right Out: 107.515+/-0.479 $\chi^2$/NDF: 7544.0/18

Left In: 112.745+/-0.213 $\chi^2$/NDF:4482.4/20

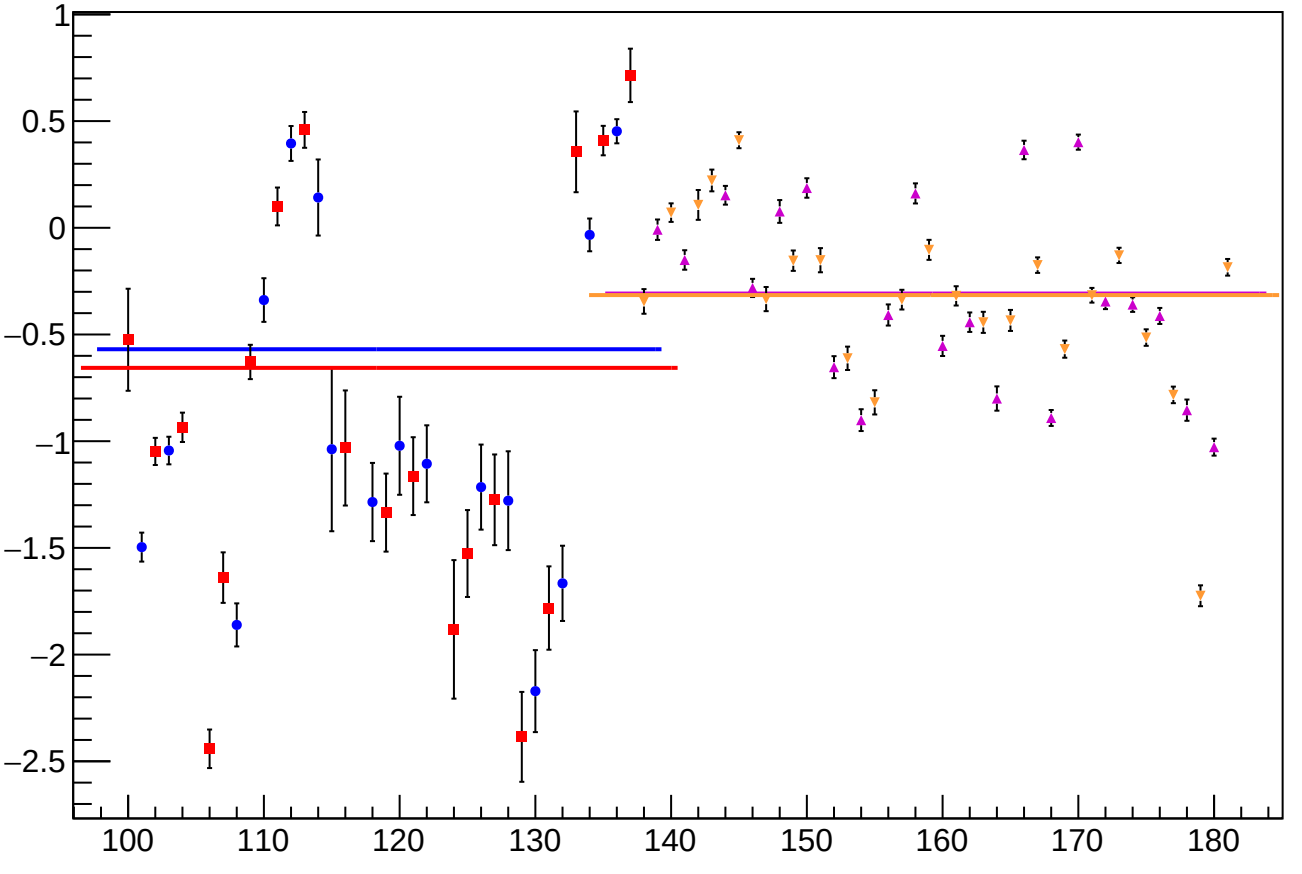
Left: 113.088+/-0.148 $\chi^2$/NDF: 10844.5/43

Right: 110.273+/-0.342 $\chi^2$/NDF: 15815.7/34

In: 112.809+/-0.195 $\chi^2$/NDF:12687.1/36

Out: 112.487+/-0.190 $\chi^2$/NDF:14028.6/41

All: 112.643+/-0.136 $\chi^2$/NDF: 26717.1/78




Right In: -0.569+/-0.026 $\chi^2$/NDF: 1097.4/15

Left Out: -0.315+/-0.009 $\chi^2$/NDF:1857.6/22

Right Out: -0.656+/-0.025 $\chi^2$/NDF: 1315.2/18

Left In: -0.308+/-0.009 $\chi^2$/NDF:2065.9/20

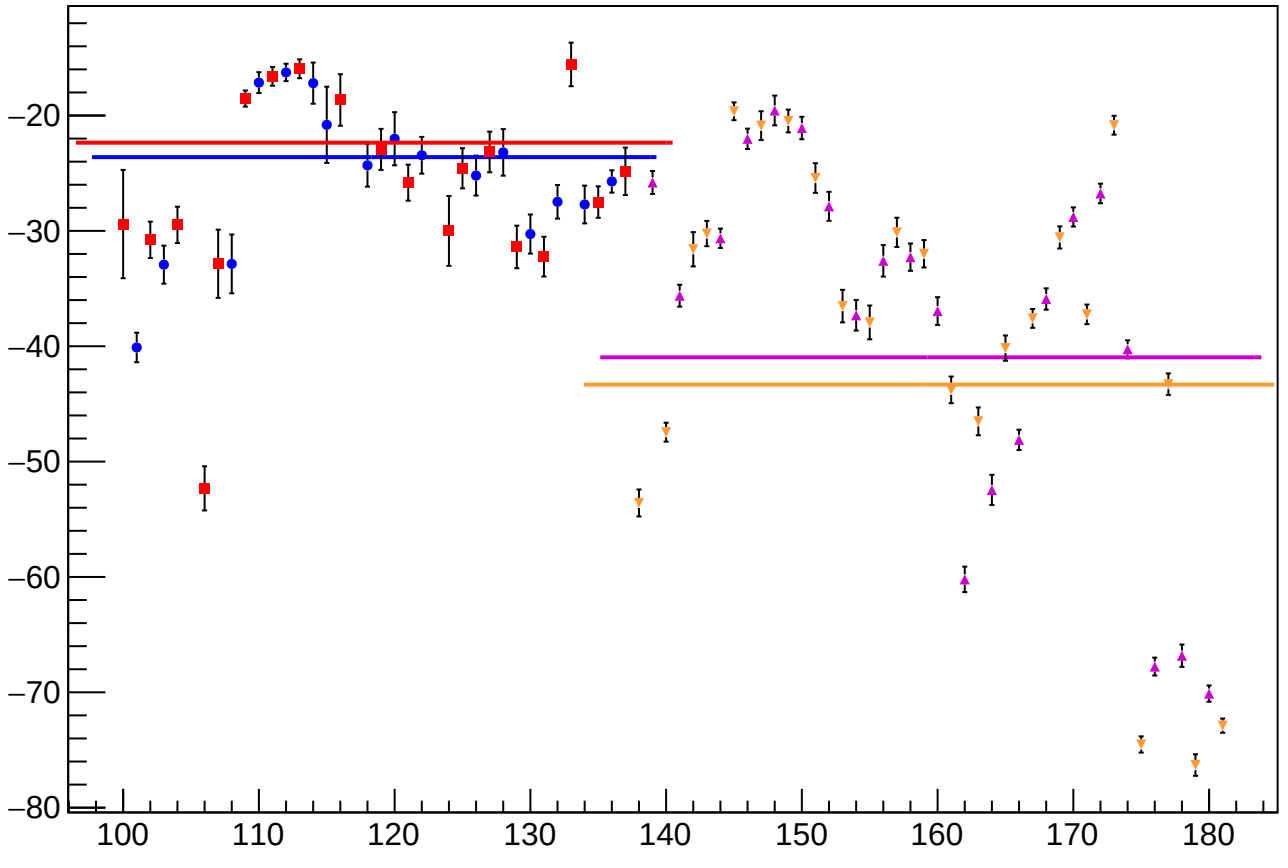
Left: -0.312+/-0.007 $\chi^2$/NDF: 3923.8/43

Right: -0.614+/-0.018 $\chi^2$/NDF: 2418.5/34

In: -0.339+/-0.009 $\chi^2$/NDF:3253.5/36

Out: -0.356+/-0.009 $\chi^2$/NDF:3333.8/41

All: -0.348+/-0.006 $\chi^2$/NDF: 6589.2/78




Right In: -23.607+/-0.348 $\chi^2$/NDF: 406.4/15

Left Out: -43.323+/-0.202 $\chi^2$/NDF:9087.9/22

Right Out: -22.354+/-0.322 $\chi^2$/NDF: 551.7/18

Left In: -40.961+/-0.210 $\chi^2$/NDF:6386.0/20

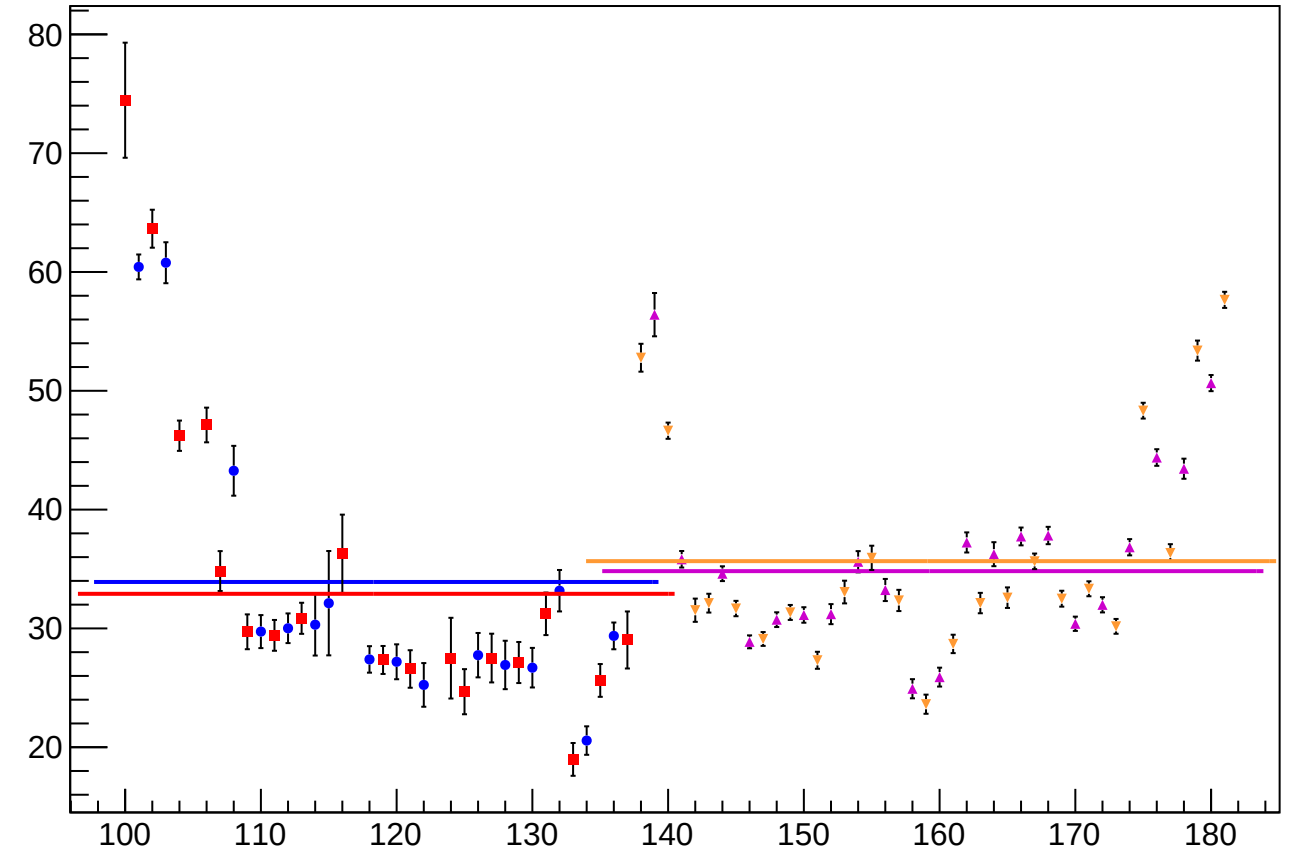
Left: -42.185+/-0.146 $\chi^2$/NDF: 15539.6/43

Right: -22.931+/-0.236 $\chi^2$/NDF: 965.1/34

In: -36.345+/-0.180 $\chi^2$/NDF:8614.5/36

Out: -37.382+/-0.171 $\chi^2$/NDF:12683.3/41

All: -36.888+/-0.124 $\chi^2$/NDF: 21315.3/78




Right In: 33.909+/-0.375 $\chi^2$/NDF: 1184.4/15

Left Out: 35.661+/-0.155 $\chi^2$/NDF:3184.7/22

Right Out: 32.911+/-0.373 $\chi^2$/NDF: 875.0/18

Left In: 34.821+/-0.160 $\chi^2$/NDF:1595.3/20

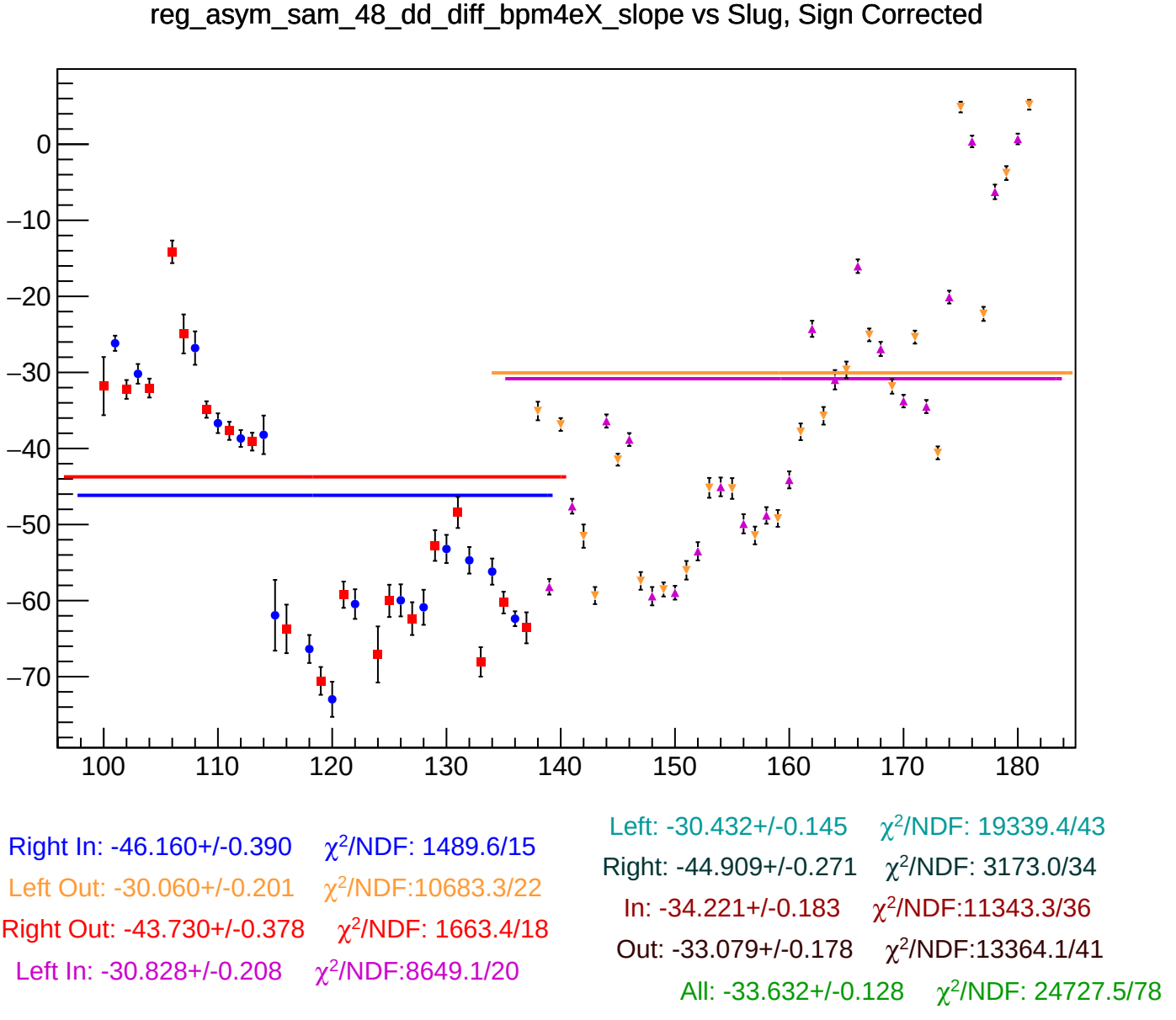
Left: 35.255+/-0.111 $\chi^2$/NDF: 4794.3/43

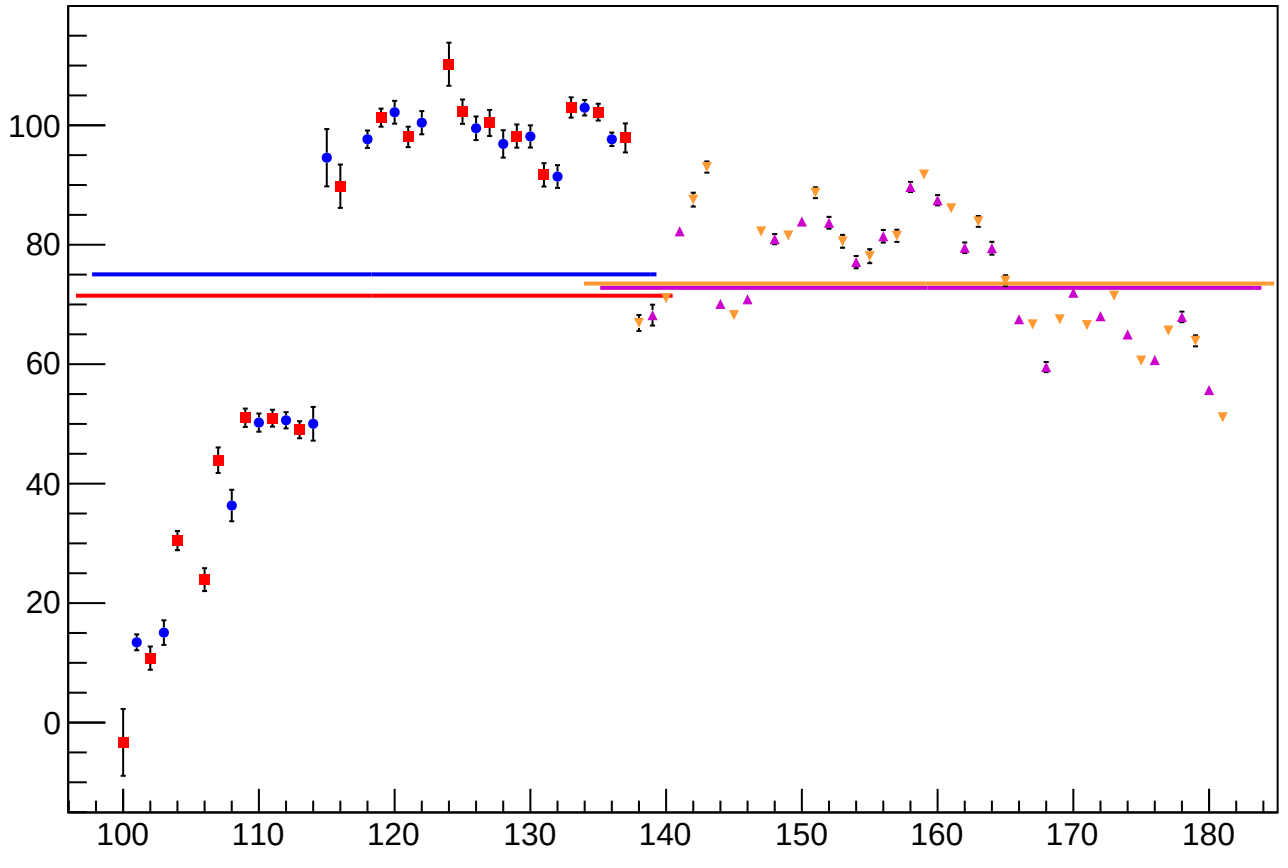
Right: 33.407+/-0.264 $\chi^2$/NDF: 2062.9/34

In: 34.681+/-0.147 $\chi^2$/NDF:2784.7/36

Out: 35.257+/-0.143 $\chi^2$/NDF:4106.1/41

All: 34.977+/-0.102 $\chi^2$/NDF: 6898.7/78


reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
0
−10
−20
−30
−40
−50
−60
−70
100
110
120
130
140
150
160
170
180
Right In: -46.160+/-0.390 χ²/NDF: 1489.6/15
Left Out: -30.060+/-0.201 χ²/NDF:10683.3/22
Right Out: -43.730+/-0.378 χ²/NDF: 1663.4/18
Left In: -30.828+/-0.208 χ²/NDF:8649.1/20
Left: -30.432+/-0.145 χ²/NDF: 19339.4/43
Right: -44.909+/-0.271 χ²/NDF: 3173.0/34
In: -34.221+/-0.183 χ²/NDF:11343.3/36
Out: -33.079+/-0.178 χ²/NDF:13364.1/41
All: -33.632+/-0.128 χ²/NDF: 24727.5/78




Right In: 75.042+/-0.427 $\chi^2$/NDF: 5828.3/15

Left Out: 73.501+/-0.174 $\chi^2$/NDF:3906.9/22

Right Out: 71.468+/-0.426 $\chi^2$/NDF: 5628.2/18

Left In: 72.784+/-0.179 $\chi^2$/NDF:2766.3/20

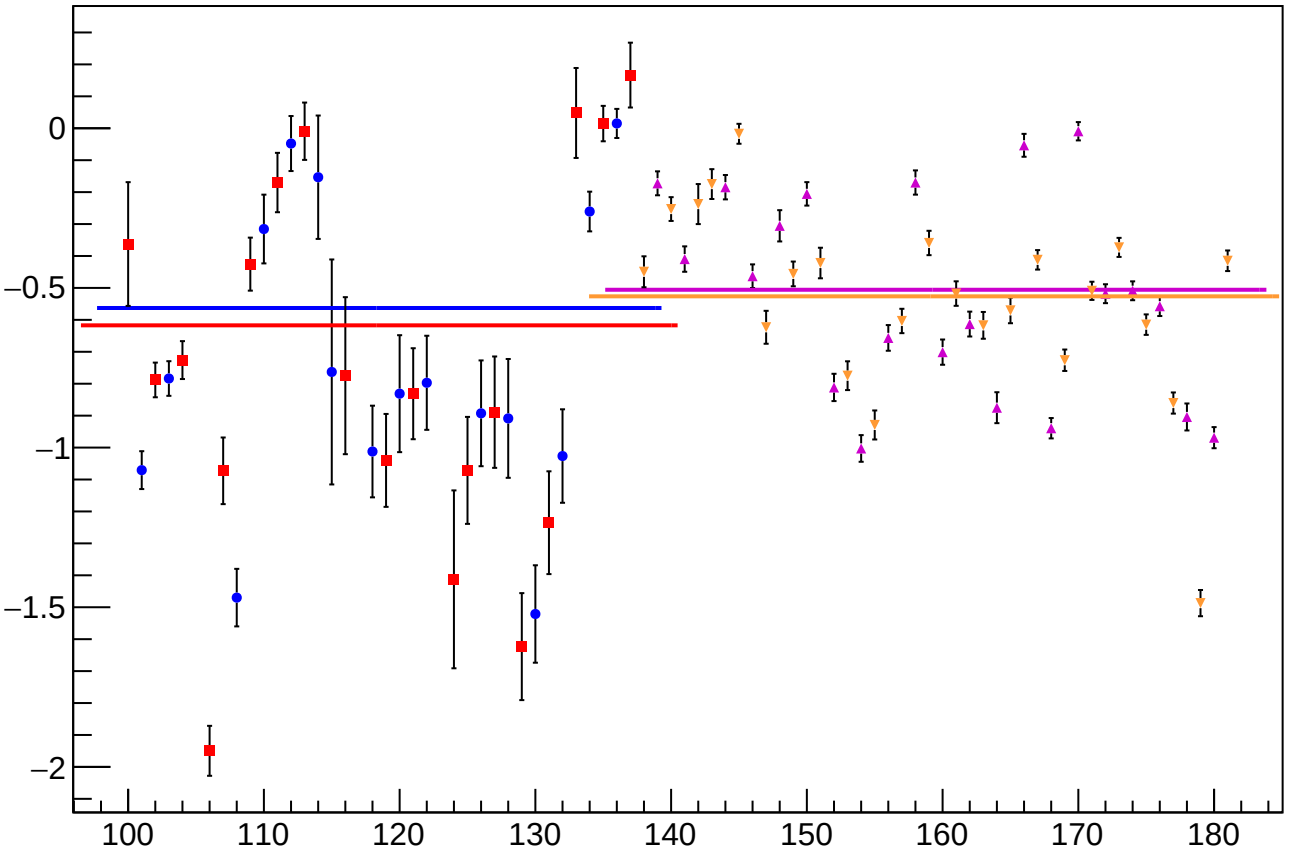
Left: 73.153+/-0.125 $\chi^2$/NDF: 6681.4/43

Right: 73.248+/-0.302 $\chi^2$/NDF: 11491.6/34

In: 73.123+/-0.165 $\chi^2$/NDF:8618.3/36

Out: 73.209+/-0.161 $\chi^2$/NDF:9554.6/41

All: 73.167+/-0.116 $\chi^2$/NDF: 18173.0/78




Right In: -0.563+/-0.022 $\chi^2$/NDF: 493.0/15

Left Out: -0.526+/-0.008 $\chi^2$/NDF:1294.9/22

Right Out: -0.617+/-0.022 $\chi^2$/NDF: 690.0/18

Left In: -0.506+/-0.008 $\chi^2$/NDF:1547.7/20

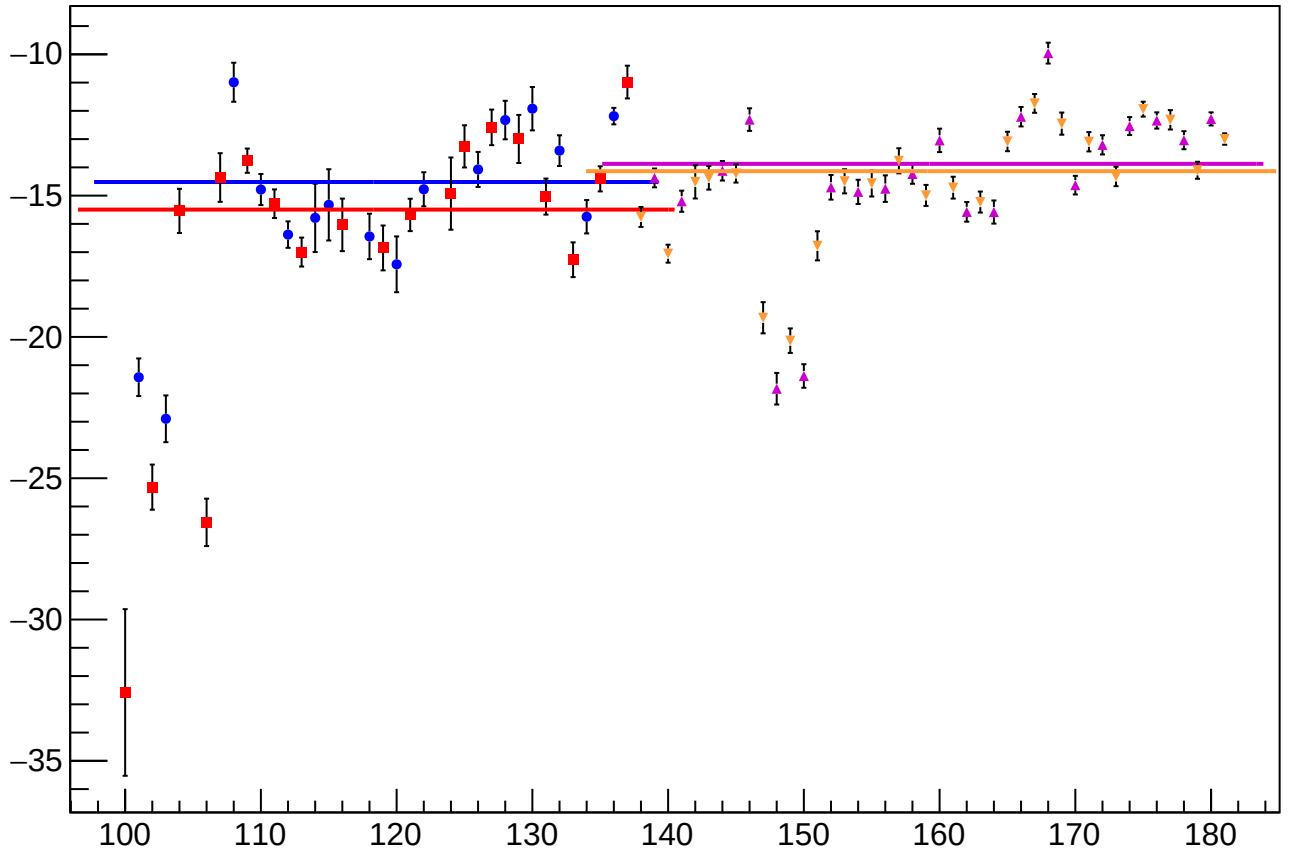
Left: -0.516+/-0.006 $\chi^2$/NDF: 2846.0/43

Right: -0.590+/-0.016 $\chi^2$/NDF: 1186.0/34

In: -0.512+/-0.007 $\chi^2$/NDF:2046.6/36

Out: -0.536+/-0.007 $\chi^2$/NDF:1999.8/41

All: -0.524+/-0.005 $\chi^2$/NDF: 4051.7/78




Right In: -14.518+/-0.149 $\chi^2$/NDF: 363.3/15

Left Out: -14.135+/-0.074 $\chi^2$/NDF:649.6/22

Right Out: -15.494+/-0.150 $\chi^2$/NDF: 503.8/18

Left In: -13.875+/-0.077 $\chi^2$/NDF:863.2/20

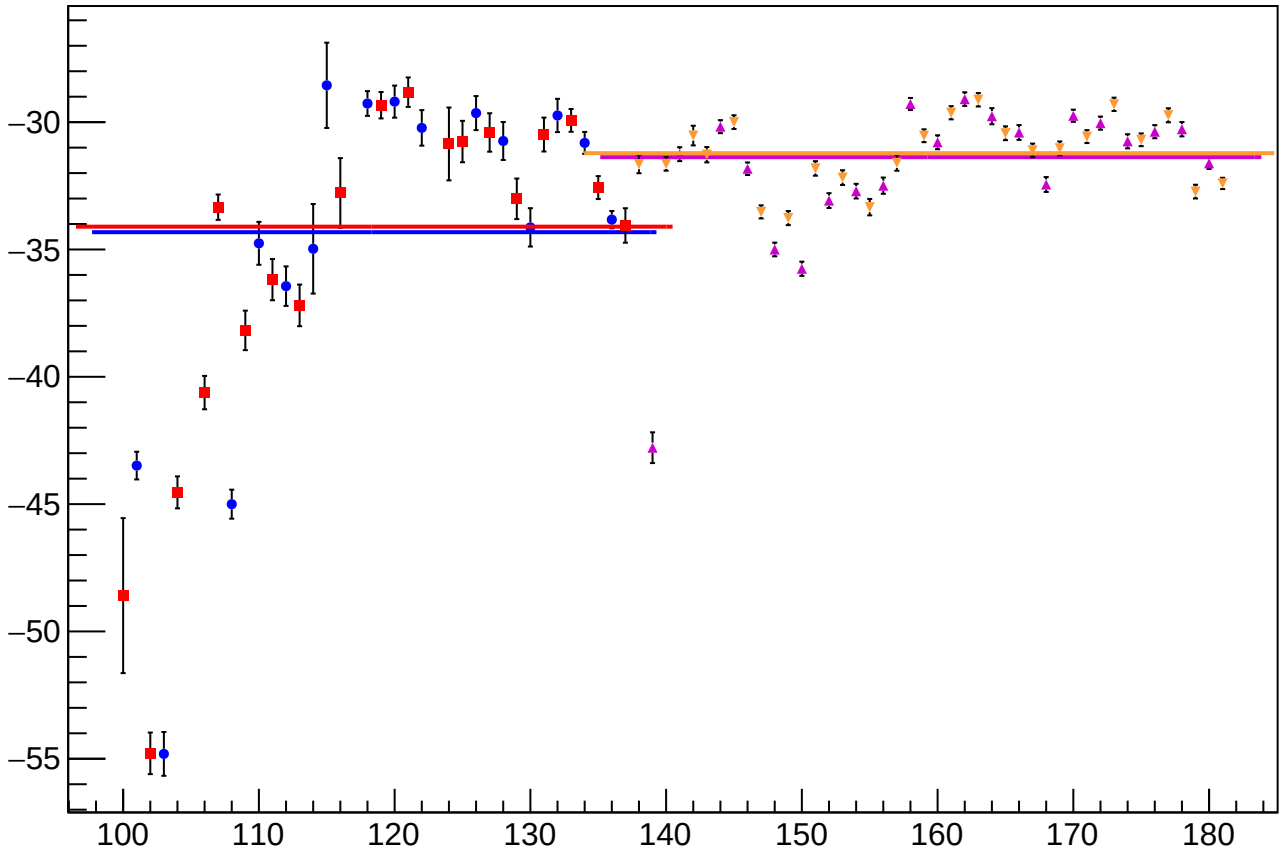
Left: -14.011+/-0.053 $\chi^2$/NDF: 1518.8/43

Right: -15.004+/-0.106 $\chi^2$/NDF: 888.5/34

In: -14.011+/-0.069 $\chi^2$/NDF:1241.2/36

Out: -14.398+/-0.066 $\chi^2$/NDF:1219.7/41

All: -14.212+/-0.048 $\chi^2$/NDF: 2477.4/78




Right In: -34.321+/-0.153 $\chi^2$/NDF: 1620.5/15

Left Out: -31.218+/-0.057 $\chi^2$/NDF:522.9/22

Right Out: -34.104+/-0.154 $\chi^2$/NDF: 1434.8/18

Left In: -31.374+/-0.060 $\chi^2$/NDF:1192.4/20

Left: -31.293+/-0.041 $\chi^2$/NDF: 1718.8/43

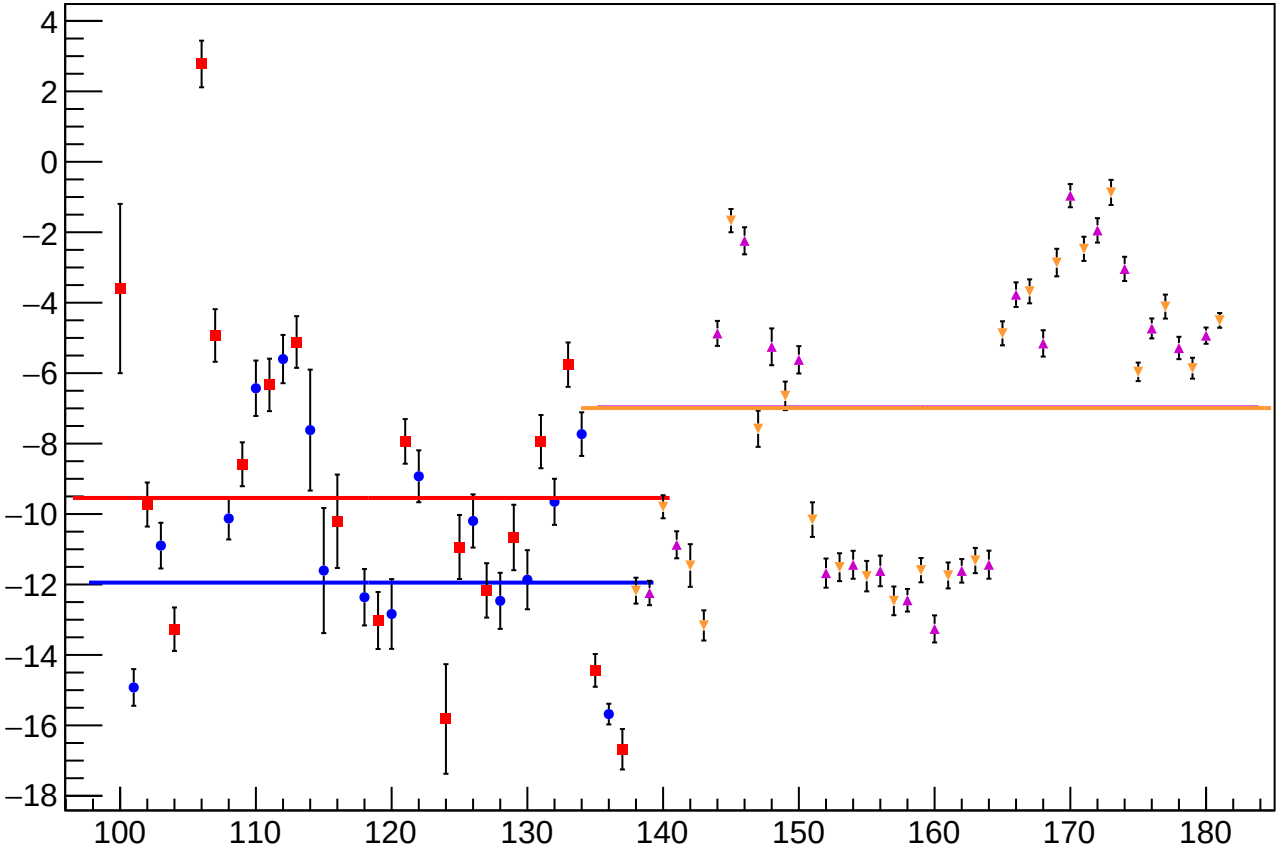
Right: -34.213+/-0.109 $\chi^2$/NDF: 3056.3/34

In: -31.764+/-0.056 $\chi^2$/NDF:3133.6/36

Out: -31.568+/-0.054 $\chi^2$/NDF:2265.8/41

All: -31.662+/-0.039 $\chi^2$/NDF: 5405.8/78

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -11.946+/-0.160 $\chi^2$/NDF: 430.0/15

Left Out: -6.992+/-0.073 $\chi^2$/NDF:2717.2/22

Right Out: -9.544+/-0.165 $\chi^2$/NDF: 847.1/18

Left In: -6.972+/-0.076 $\chi^2$/NDF:2740.4/20

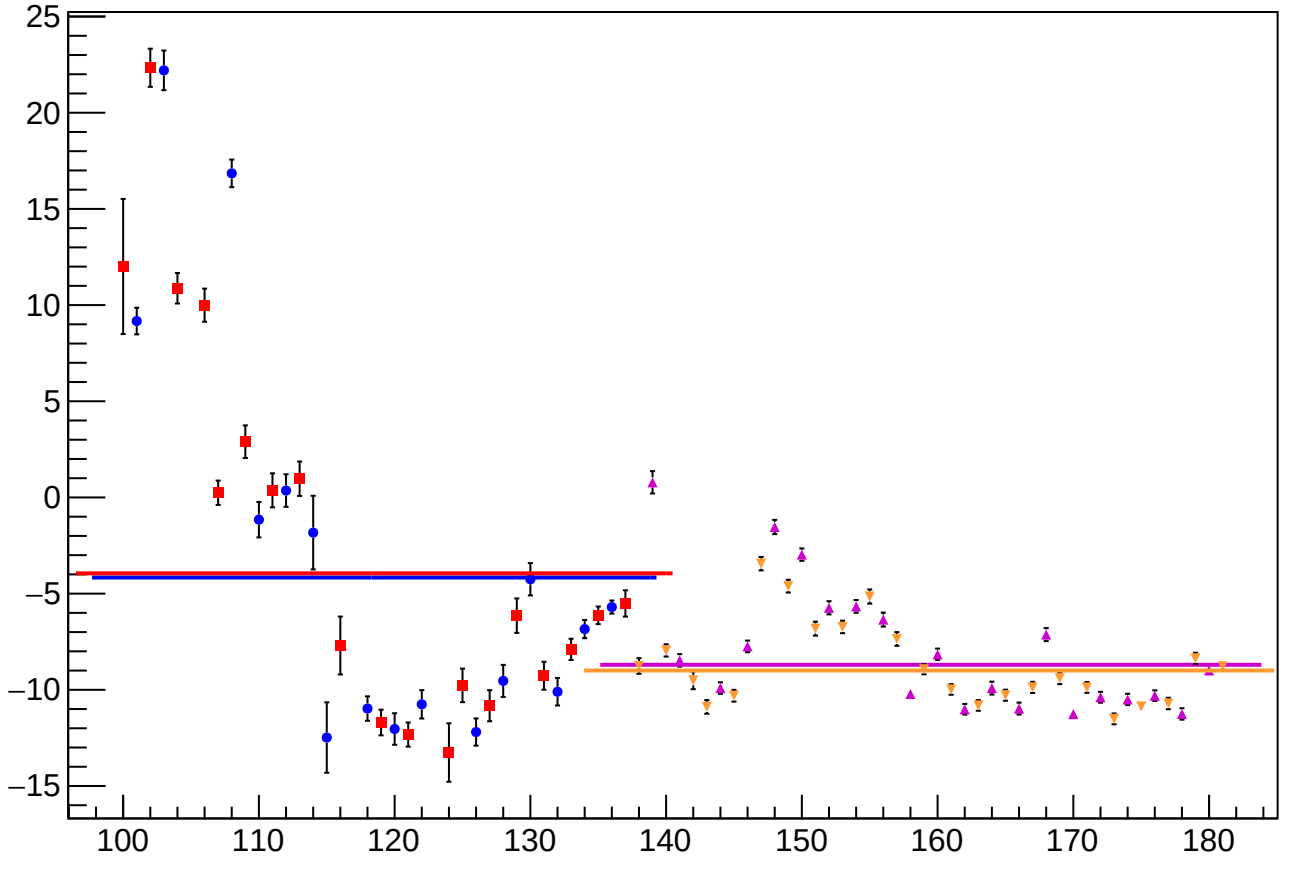
Left: -6.982+/-0.053 $\chi^2$/NDF: 5457.6/43

Right: -10.782+/-0.115 $\chi^2$/NDF: 1386.2/34

In: -7.892+/-0.069 $\chi^2$/NDF:3956.8/36

Out: -7.410+/-0.067 $\chi^2$/NDF:3763.9/41

All: -7.644+/-0.048 $\chi^2$/NDF: 7745.9/78




Right In: -4.163+/-0.172 $\chi^2$/NDF: 2525.0/15

Left Out: -8.997+/-0.064 $\chi^2$/NDF:961.4/22

Right Out: -3.947+/-0.176 $\chi^2$/NDF: 2110.2/18

Left In: -8.699+/-0.066 $\chi^2$/NDF:1661.8/20

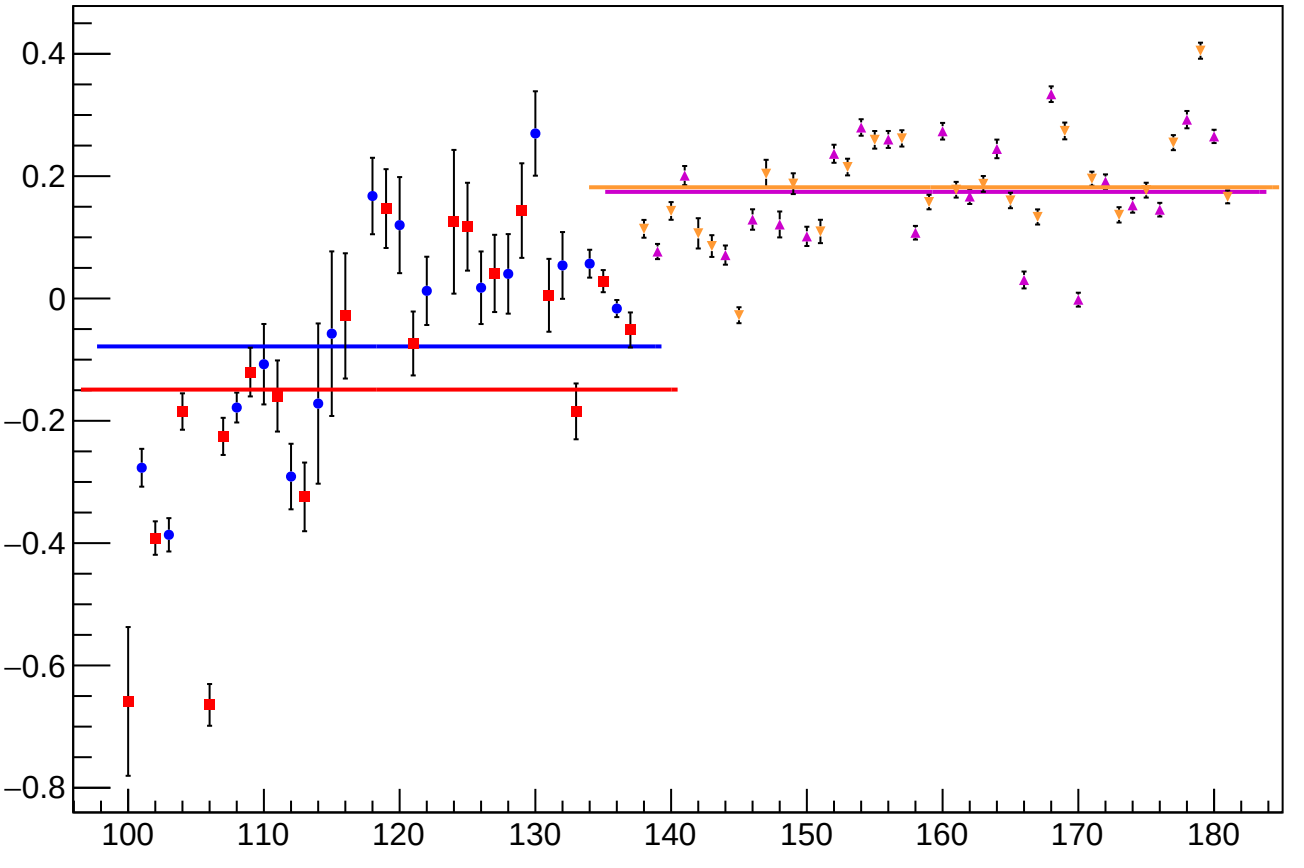
Left: -8.854+/-0.046 $\chi^2$/NDF: 2633.6/43

Right: -4.057+/-0.123 $\chi^2$/NDF: 4636.0/34

In: -8.110+/-0.062 $\chi^2$/NDF:4792.5/36

Out: -8.407+/-0.060 $\chi^2$/NDF:3798.5/41

All: -8.263+/-0.043 $\chi^2$/NDF: 8602.8/78




Right In: -0.078+/-0.009 $\chi^2$/NDF: 318.8/15

Left Out: 0.182+/-0.003 $\chi^2$/NDF:819.8/22

Right Out: -0.149+/-0.009 $\chi^2$/NDF: 524.8/18

Left In: 0.174+/-0.003 $\chi^2$/NDF:1026.1/20

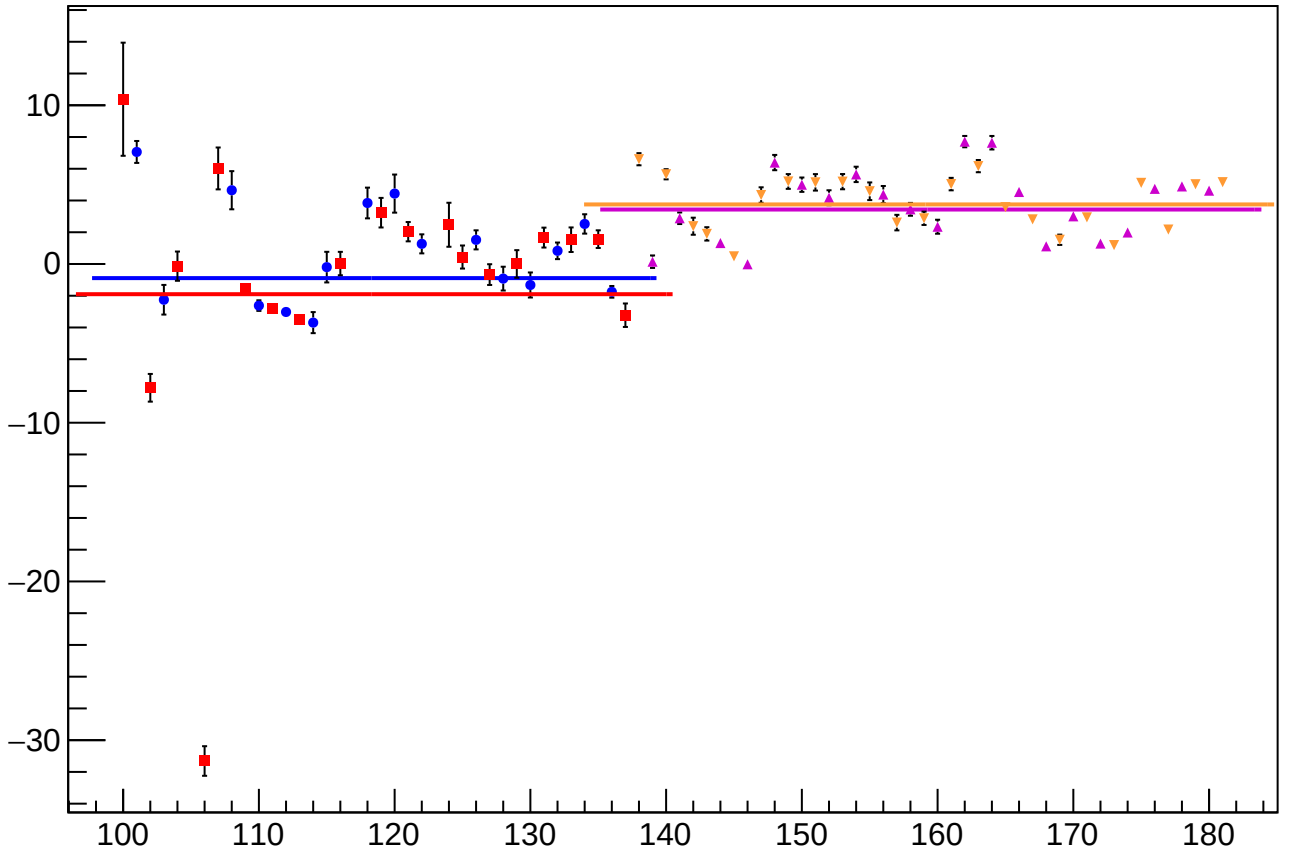
Left: 0.178+/-0.002 $\chi^2$/NDF: 1849.3/43

Right: -0.112+/-0.006 $\chi^2$/NDF: 875.6/34

In: 0.148+/-0.003 $\chi^2$/NDF:2124.7/36

Out: 0.152+/-0.003 $\chi^2$/NDF:2554.5/41

All: 0.150+/-0.002 $\chi^2$/NDF: 4680.2/78




Right In: -0.889+/-0.137 $\chi^2$/NDF: 380.3/15

Left Out: 3.752+/-0.066 $\chi^2$/NDF:701.8/22

Right Out: -1.903+/-0.128 $\chi^2$/NDF: 1331.8/18

Left In: 3.431+/-0.069 $\chi^2$/NDF:856.5/20

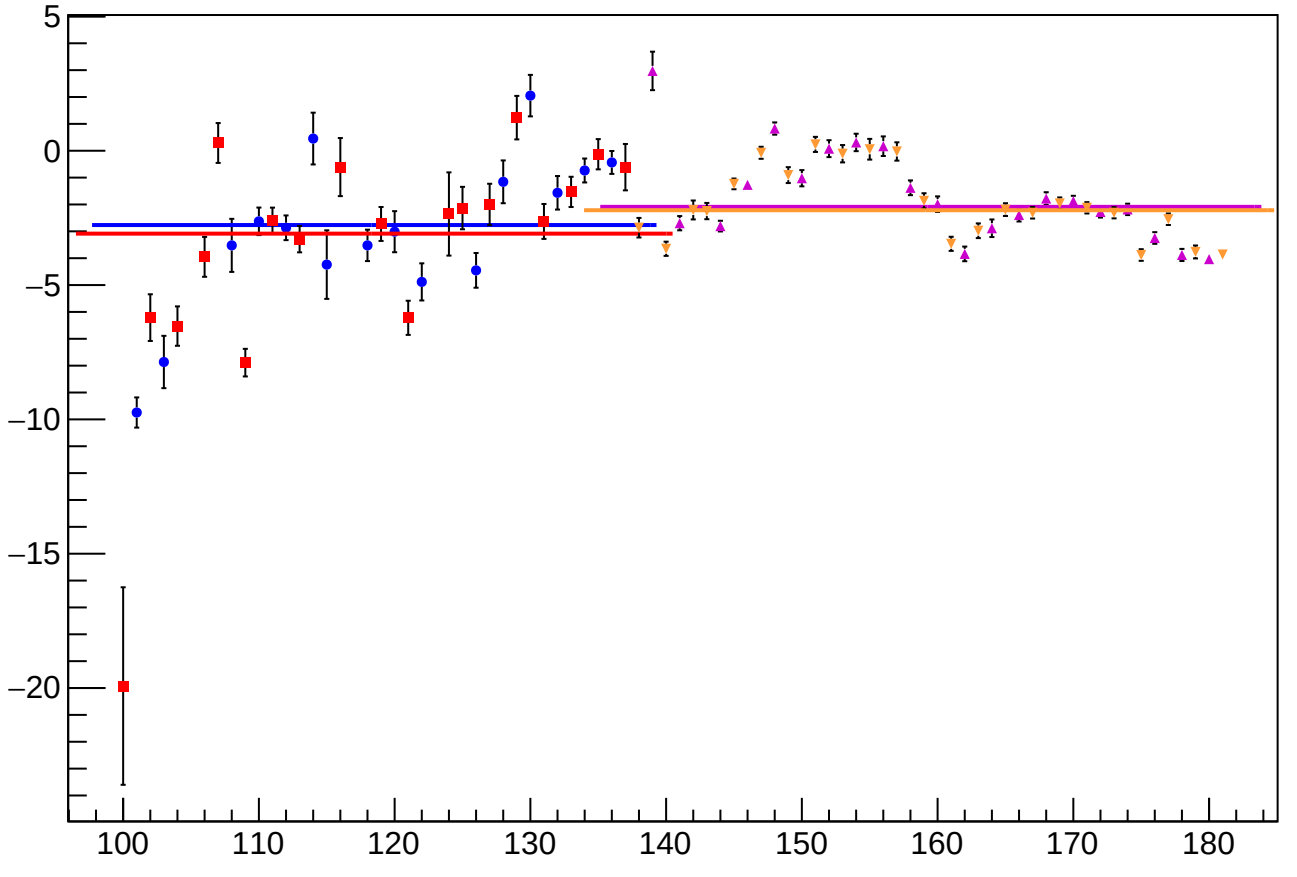
Left: 3.599+/-0.048 $\chi^2$/NDF: 1569.5/43

Right: -1.428+/-0.094 $\chi^2$/NDF: 1741.3/34

In: 2.550+/-0.062 $\chi^2$/NDF:2032.9/36

Out: 2.563+/-0.059 $\chi^2$/NDF:3566.6/41

All: 2.557+/-0.043 $\chi^2$/NDF: 5599.6/78




Right In: -2.766+/-0.156 $\chi^2$/NDF: 310.1/15

Left Out: -2.214+/-0.052 $\chi^2$/NDF:582.6/22

Right Out: -3.086+/-0.158 $\chi^2$/NDF: 272.5/18

Left In: -2.089+/-0.053 $\chi^2$/NDF:667.8/20

Left: -2.153+/-0.037 $\chi^2$/NDF: 1253.2/43

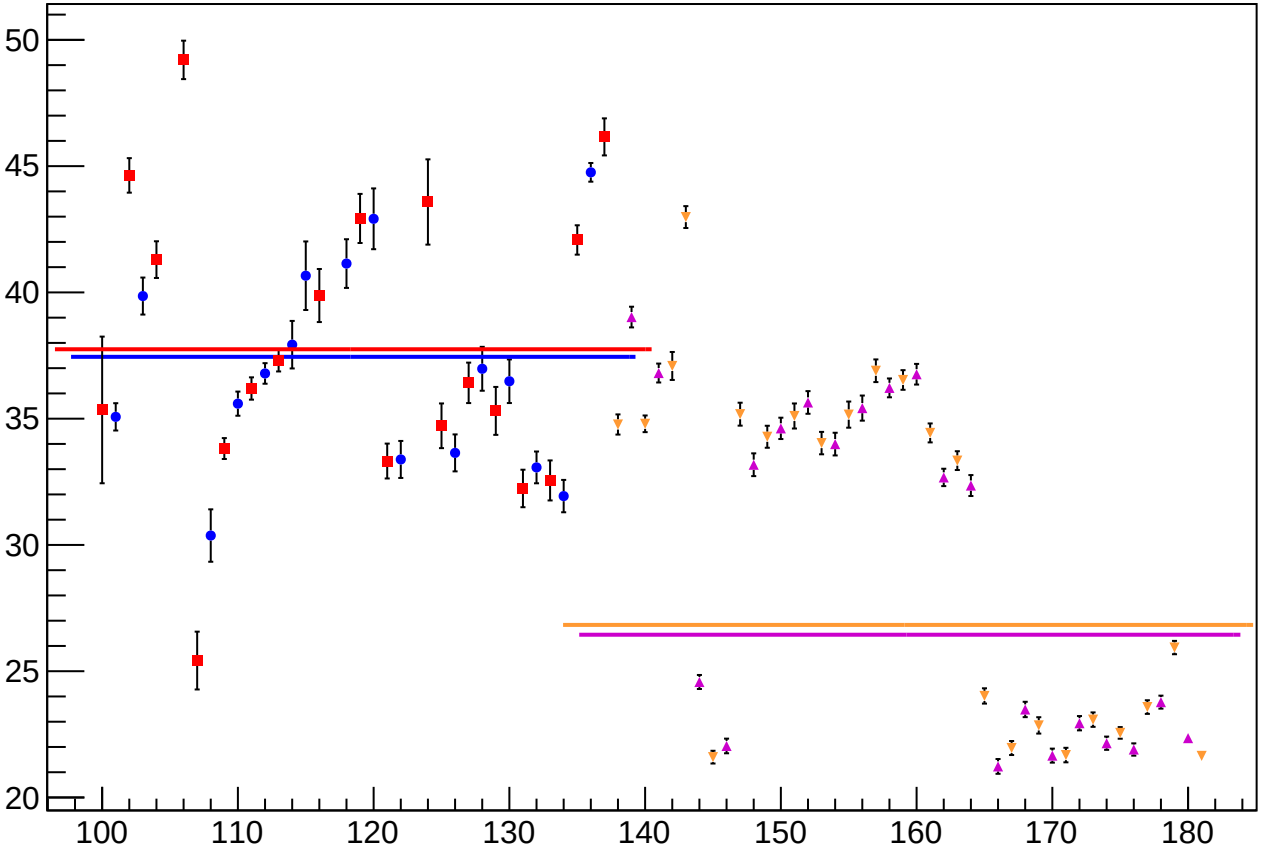
Right: -2.925+/-0.111 $\chi^2$/NDF: 584.6/34

In: -2.159+/-0.050 $\chi^2$/NDF:994.7/36

Out: -2.300+/-0.049 $\chi^2$/NDF:882.7/41

All: -2.231+/-0.035 $\chi^2$/NDF: 1881.4/78

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 37.449+/-0.161 $\chi^2$/NDF: 706.9/15

Left Out: 26.833+/-0.066 $\chi^2$/NDF:8875.3/22

Right Out: 37.749+/-0.159 $\chi^2$/NDF: 963.6/18

Left In: 26.445+/-0.069 $\chi^2$/NDF:7505.9/20

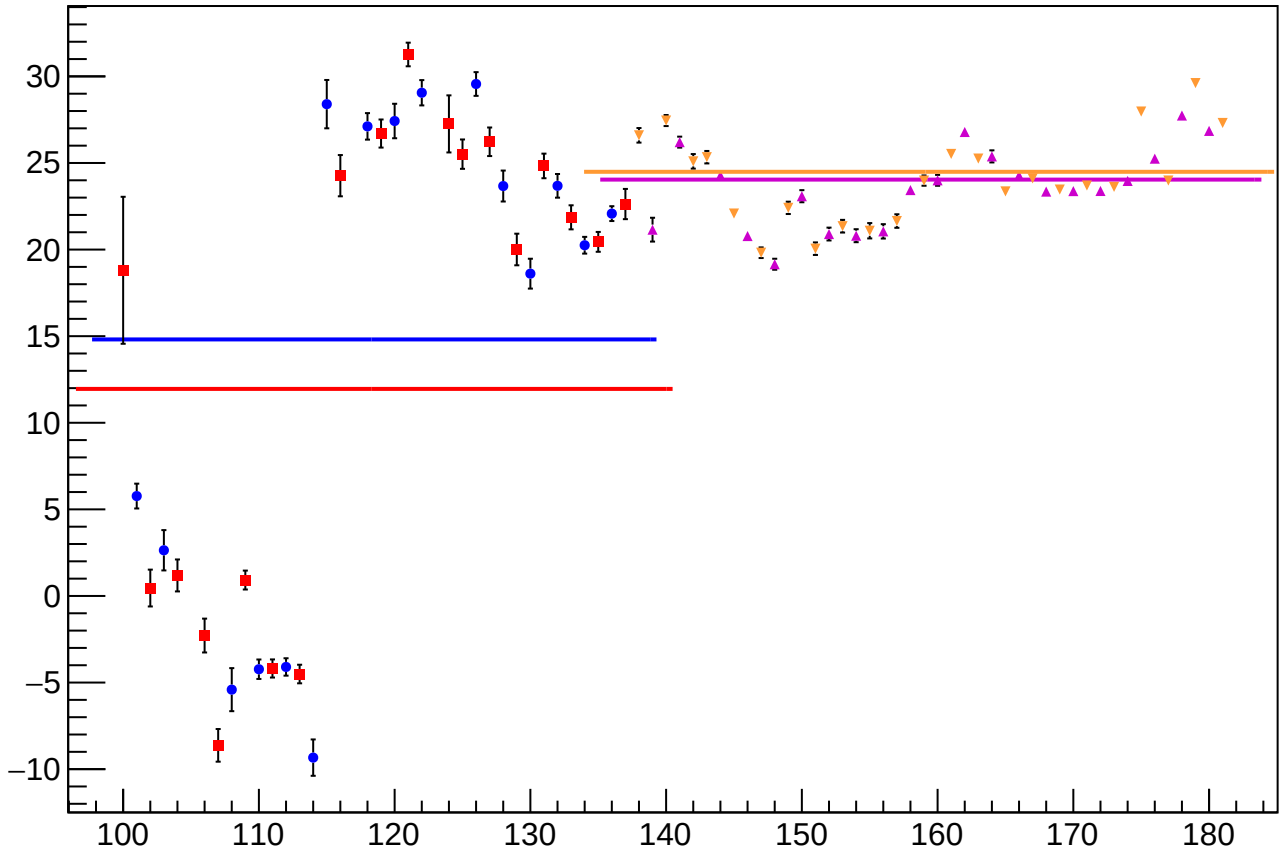
Left: 26.646+/-0.048 $\chi^2$/NDF: 16397.8/43

Right: 37.600+/-0.113 $\chi^2$/NDF: 1672.3/34

In: 28.147+/-0.063 $\chi^2$/NDF:12175.5/36

Out: 28.442+/-0.061 $\chi^2$/NDF:13836.4/41

All: 28.300+/-0.044 $\chi^2$/NDF: 26023.1/78




Right In: 14.812+/-0.174 $\chi^2$/NDF: 5686.4/15

Left Out: 24.491+/-0.058 $\chi^2$/NDF:1757.0/22

Right Out: 11.955+/-0.177 $\chi^2$/NDF: 6105.5/18

Left In: 24.040+/-0.059 $\chi^2$/NDF:1339.1/20

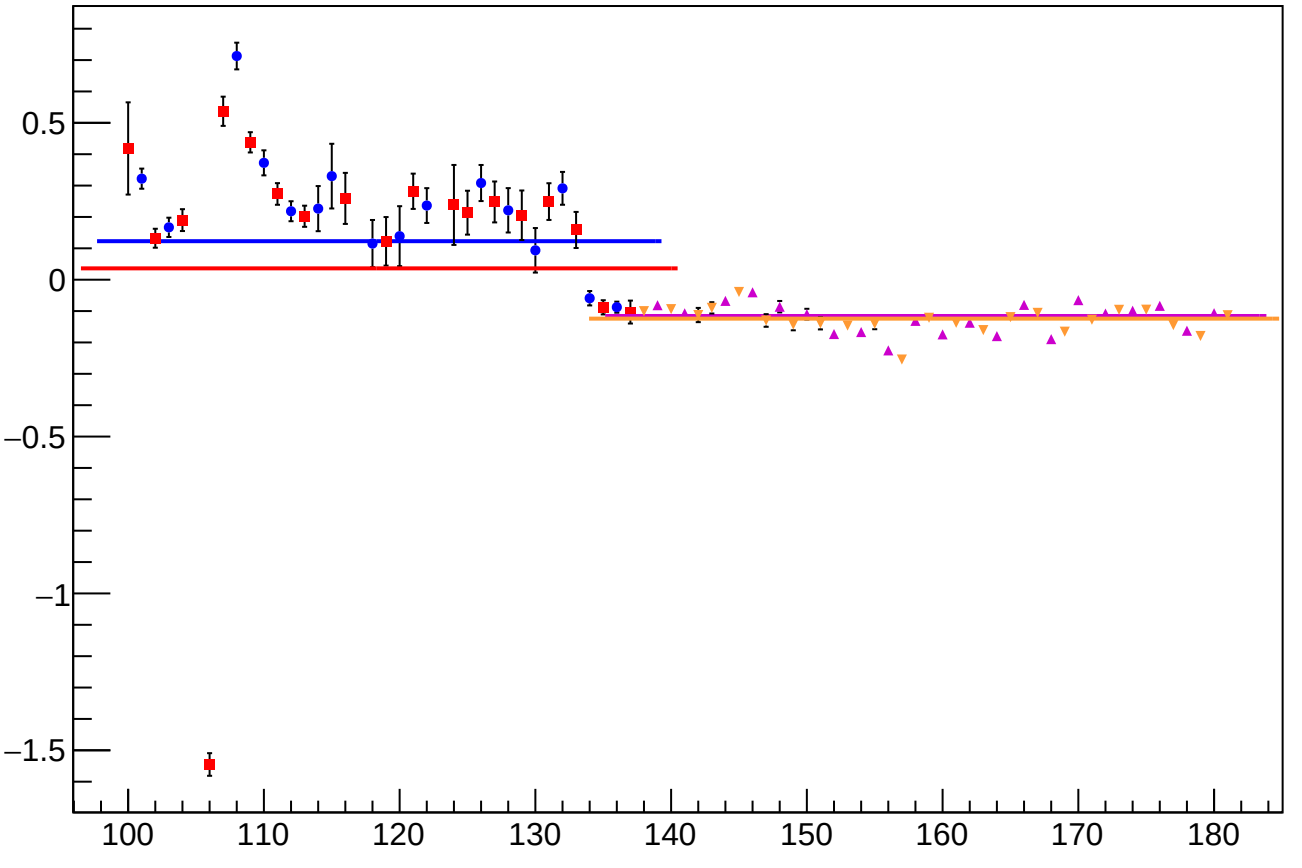
Left: 24.271+/-0.042 $\chi^2$/NDF: 3125.5/43

Right: 13.408+/-0.124 $\chi^2$/NDF: 11924.5/34

In: 23.074+/-0.056 $\chi^2$/NDF:9547.3/36

Out: 23.271+/-0.055 $\chi^2$/NDF:12399.6/41

All: 23.175+/-0.039 $\chi^2$/NDF: 21953.2/78




Right In: 0.123+/-0.009 $\chi^2$/NDF: 520.0/15

Left Out: -0.124+/-0.003 $\chi^2$/NDF:234.9/22

Right Out: 0.036+/-0.010 $\chi^2$/NDF: 2414.7/18

Left In: -0.116+/-0.003 $\chi^2$/NDF:290.0/20

Left: -0.120+/-0.002 $\chi^2$/NDF: 530.1/43

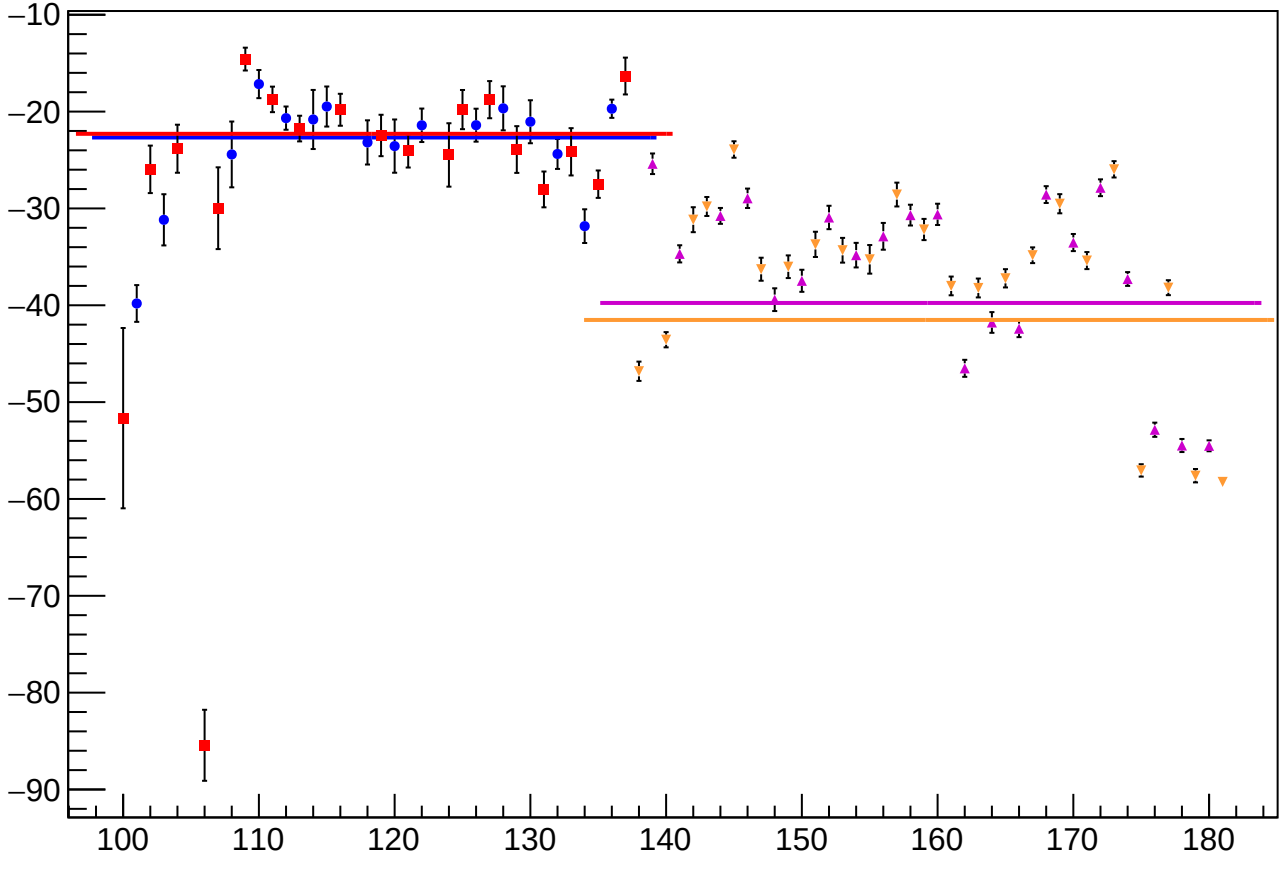
Right: 0.081+/-0.007 $\chi^2$/NDF: 2975.5/34

In: -0.098+/-0.003 $\chi^2$/NDF:1405.0/36

Out: -0.114+/-0.003 $\chi^2$/NDF:2900.6/41

All: -0.106+/-0.002 $\chi^2$/NDF: 4324.0/78

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -22.675+/-0.435 $\chi^2$/NDF: 154.4/15

Left Out: -41.515+/-0.186 $\chi^2$/NDF:3924.8/22

Right Out: -22.295+/-0.435 $\chi^2$/NDF: 405.5/18

Left In: -39.760+/-0.195 $\chi^2$/NDF:2655.2/20

Left: -40.682+/-0.135 $\chi^2$/NDF: 6622.4/43

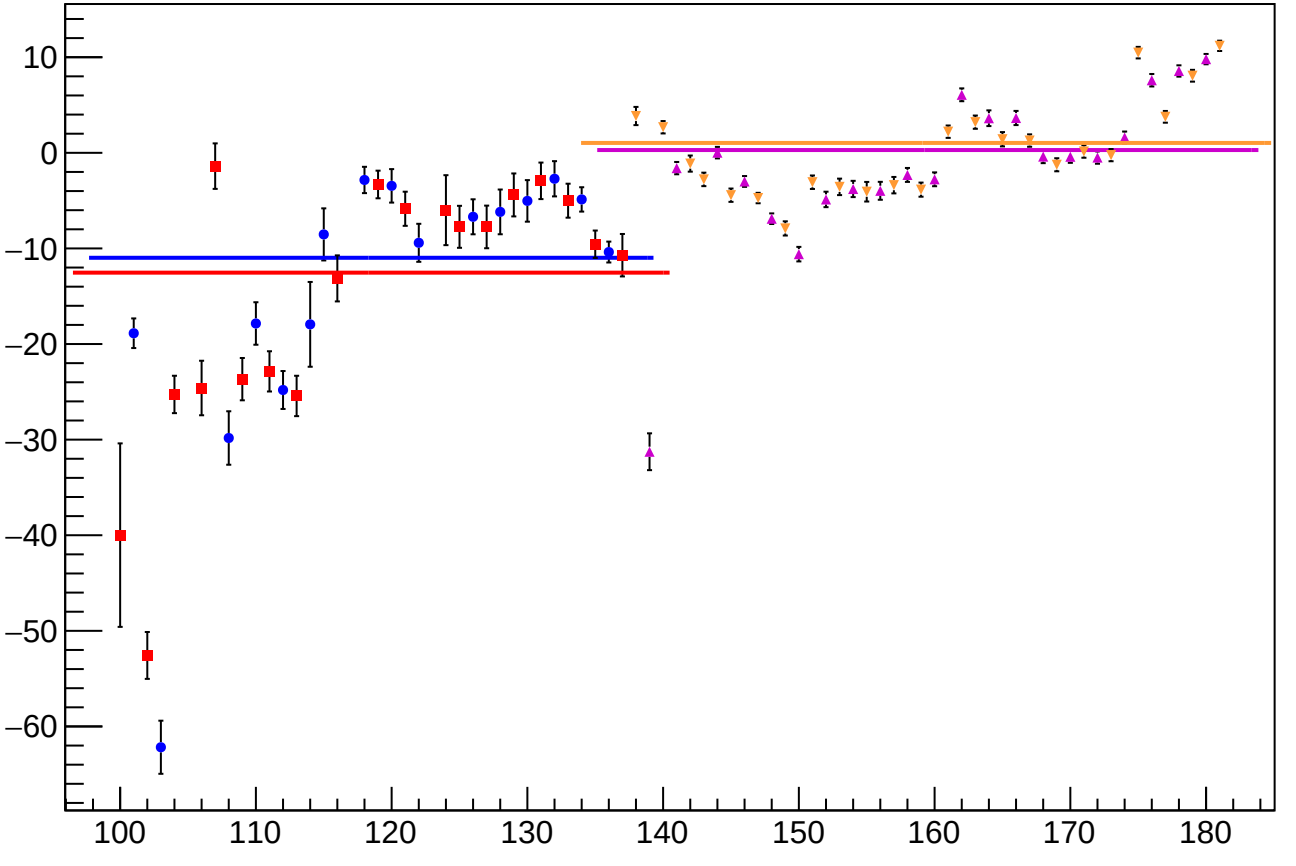
Right: -22.485+/-0.307 $\chi^2$/NDF: 560.3/34

In: -36.891+/-0.178 $\chi^2$/NDF:4096.0/36

Out: -38.556+/-0.171 $\chi^2$/NDF:5980.7/41

All: -37.759+/-0.123 $\chi^2$/NDF: 10122.3/78

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -10.978+/-0.453 $\chi^2$/NDF: 587.3/15

Left Out: 1.035+/-0.143 $\chi^2$/NDF:1303.3/22

Right Out: -12.533+/-0.481 $\chi^2$/NDF: 572.3/18

Left In: 0.291+/-0.149 $\chi^2$/NDF:1546.4/20

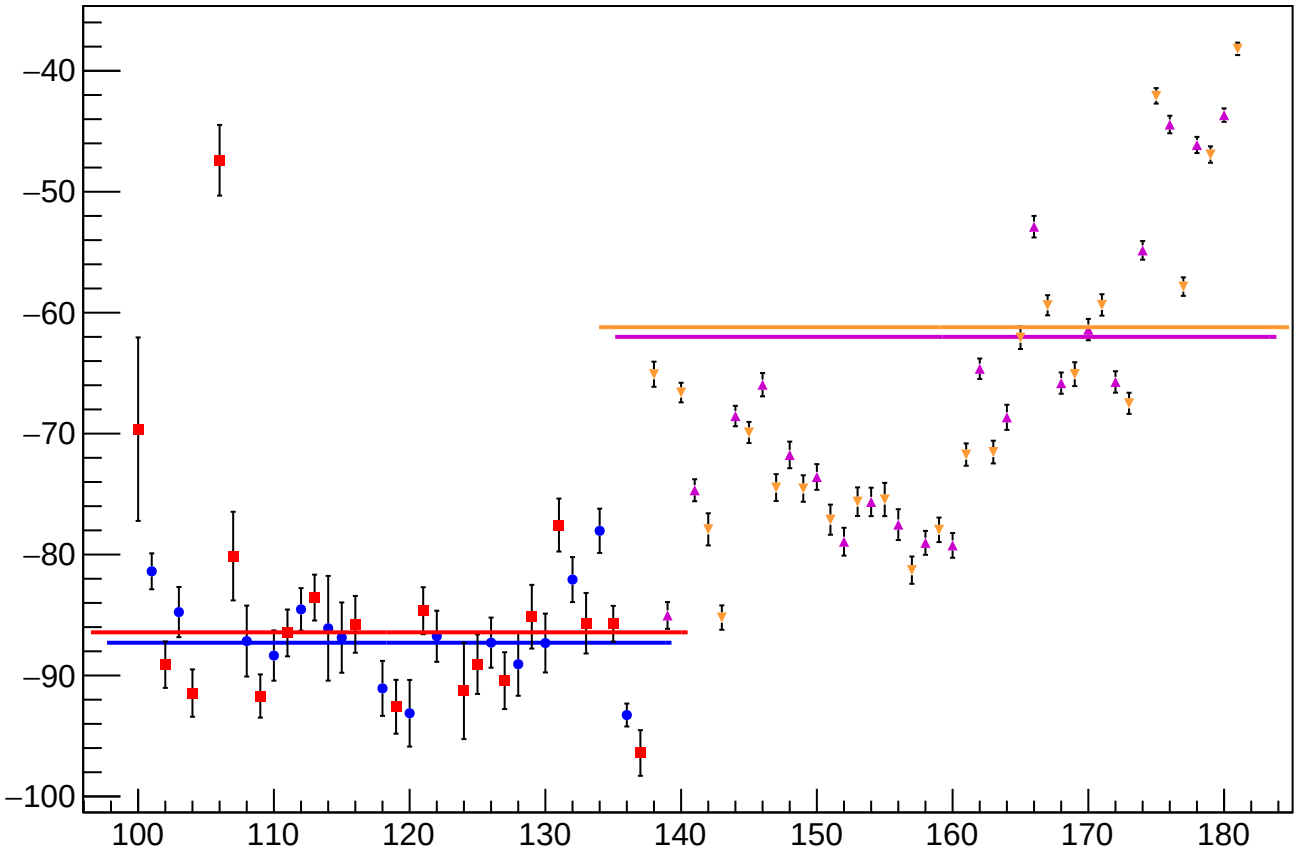
Left: 0.677+/-0.103 $\chi^2$/NDF: 2862.7/43

Right: -11.710+/-0.330 $\chi^2$/NDF: 1165.1/34

In: -0.809+/-0.142 $\chi^2$/NDF:2691.3/36

Out: -0.072+/-0.137 $\chi^2$/NDF:2606.1/41

All: -0.430+/-0.099 $\chi^2$/NDF: 5311.3/78




Right In: -87.291+/-0.481 $\chi^2$/NDF: 101.2/15

Left Out: -61.200+/-0.185 $\chi^2$/NDF:5878.6/22

Right Out: -86.431+/-0.506 $\chi^2$/NDF: 264.8/18

Left In: -62.001+/-0.193 $\chi^2$/NDF:4479.2/20

Left: -61.583+/-0.134 $\chi^2$/NDF: 10366.7/43

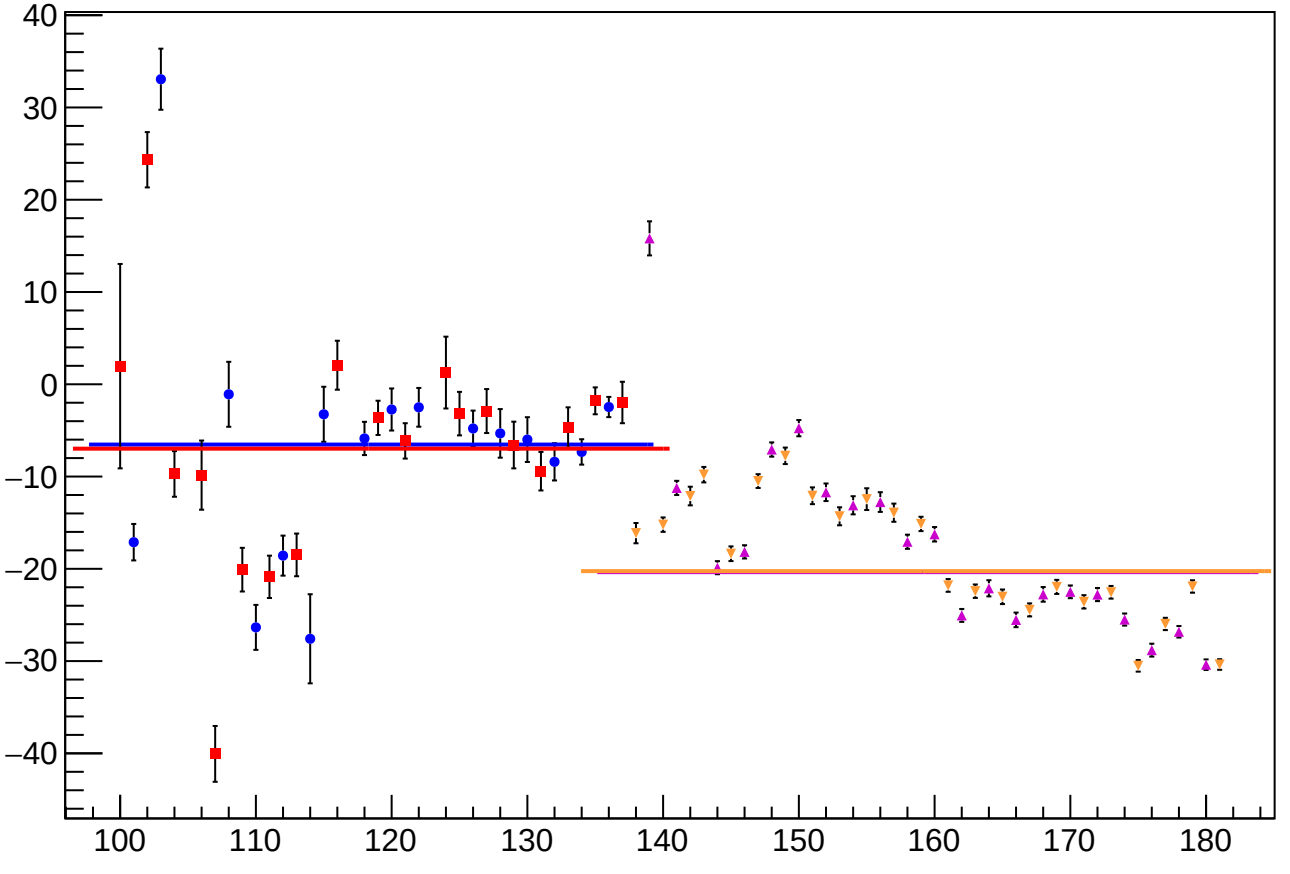
Right: -86.883+/-0.348 $\chi^2$/NDF: 367.6/34

In: -65.527+/-0.179 $\chi^2$/NDF:6963.5/36

Out: -64.177+/-0.174 $\chi^2$/NDF:8337.0/41

All: -64.830+/-0.125 $\chi^2$/NDF: 15329.7/78

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -6.535+/-0.508 $\chi^2$/NDF: 313.9/15

Left Out: -20.250+/-0.161 $\chi^2$/NDF:1645.7/22

Right Out: -6.979+/-0.542 $\chi^2$/NDF: 368.3/18

Left In: -20.362+/-0.167 $\chi^2$/NDF:2120.3/20

Left: -20.304+/-0.116 $\chi^2$/NDF: 3766.2/43

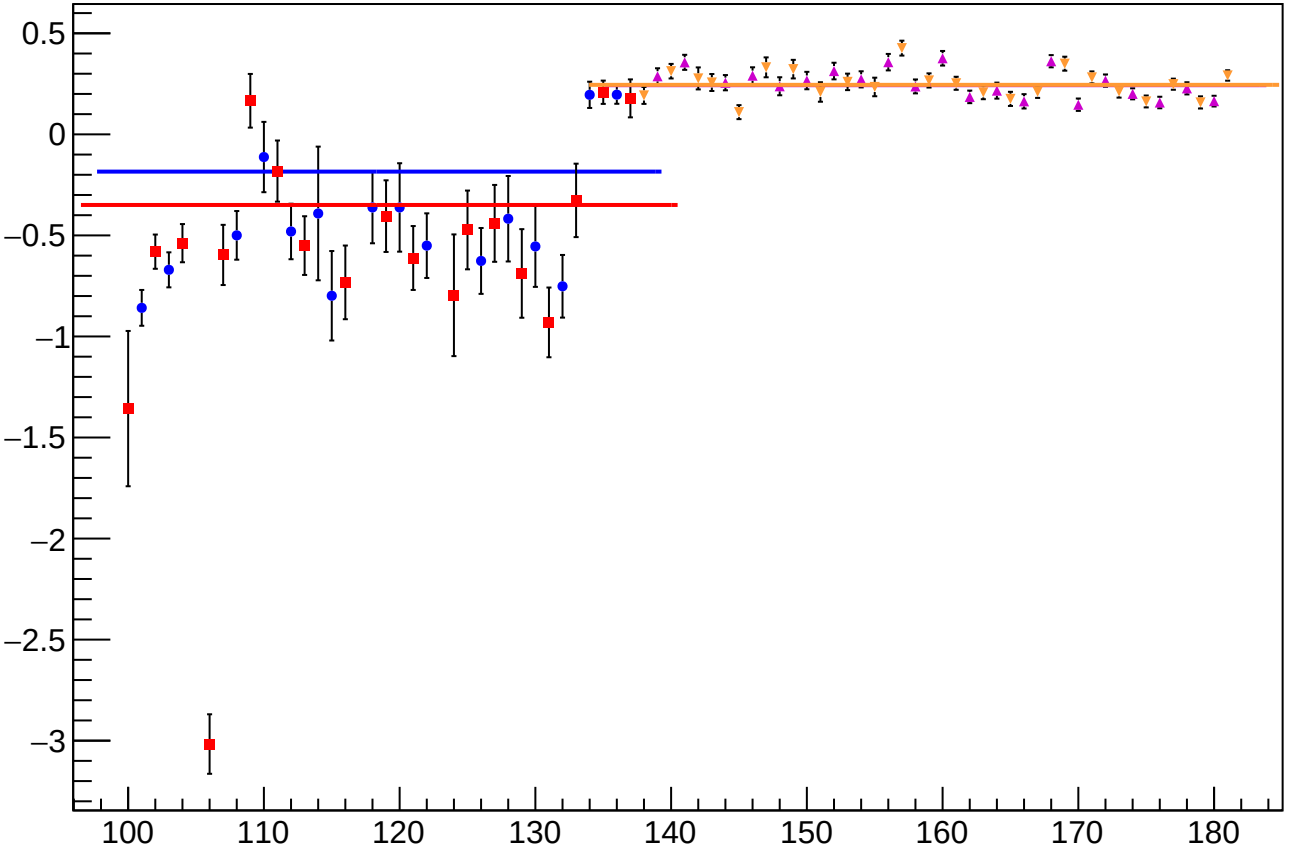
Right: -6.743+/-0.370 $\chi^2$/NDF: 682.6/34

In: -19.010+/-0.159 $\chi^2$/NDF:3102.9/36

Out: -19.169+/-0.155 $\chi^2$/NDF:2565.3/41

All: -19.091+/-0.111 $\chi^2$/NDF: 5668.7/78

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.184+/-0.027 $\chi^2$/NDF: 247.3/15

Left Out: 0.245+/-0.007 $\chi^2$/NDF:89.6/22

Right Out: -0.349+/-0.029 $\chi^2$/NDF: 516.5/18

Left In: 0.243+/-0.007 $\chi^2$/NDF:92.4/20

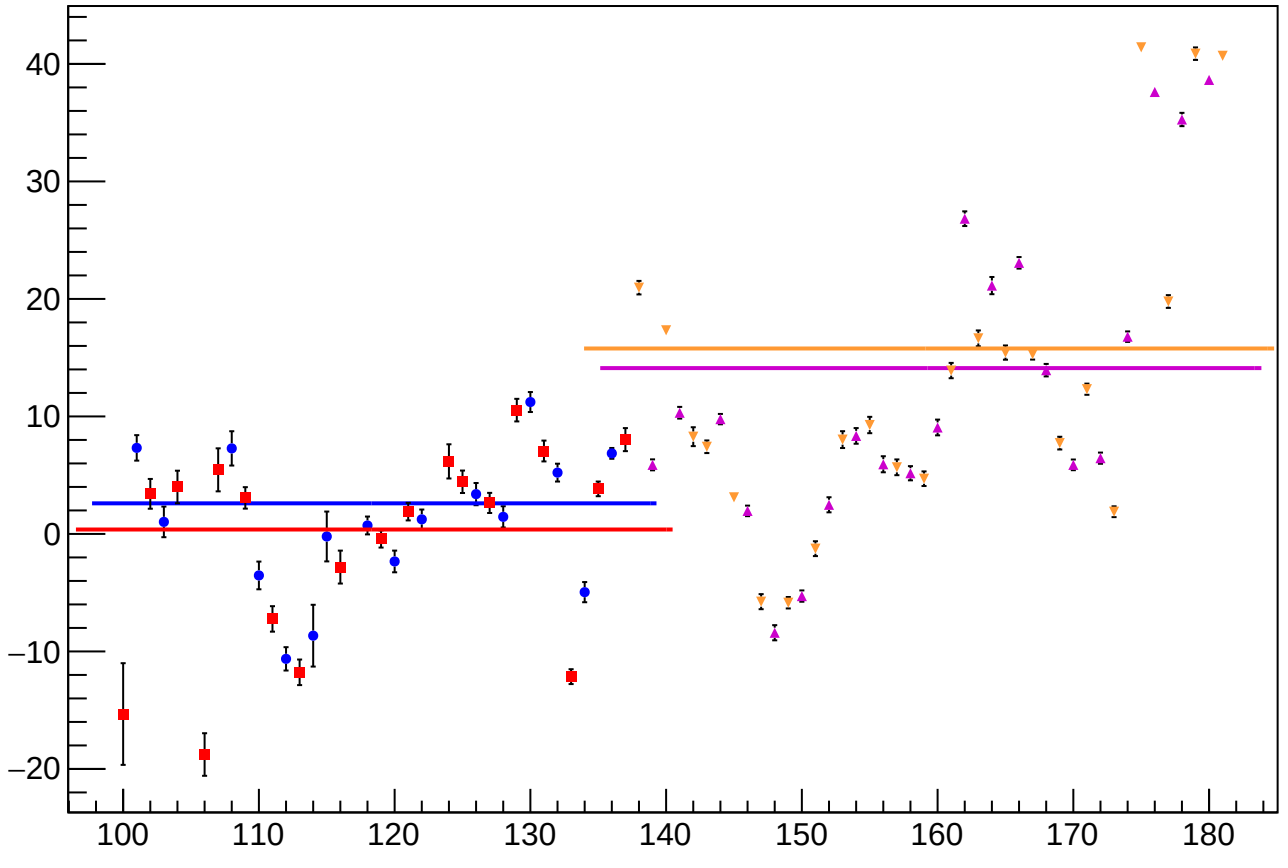
Left: 0.244+/-0.005 $\chi^2$/NDF: 182.0/43

Right: -0.259+/-0.020 $\chi^2$/NDF: 781.1/34

In: 0.212+/-0.007 $\chi^2$/NDF:576.4/36

Out: 0.210+/-0.007 $\chi^2$/NDF:993.1/41

All: 0.211+/-0.005 $\chi^2$/NDF: 1569.5/78




Right In: 2.604+/-0.224 $\chi^2$/NDF: 573.1/15

Left Out: 15.782+/-0.109 $\chi^2$/NDF:18889.2/22

Right Out: 0.377+/-0.222 $\chi^2$/NDF: 1030.9/18

Left In: 14.113+/-0.113 $\chi^2$/NDF:14479.4/20

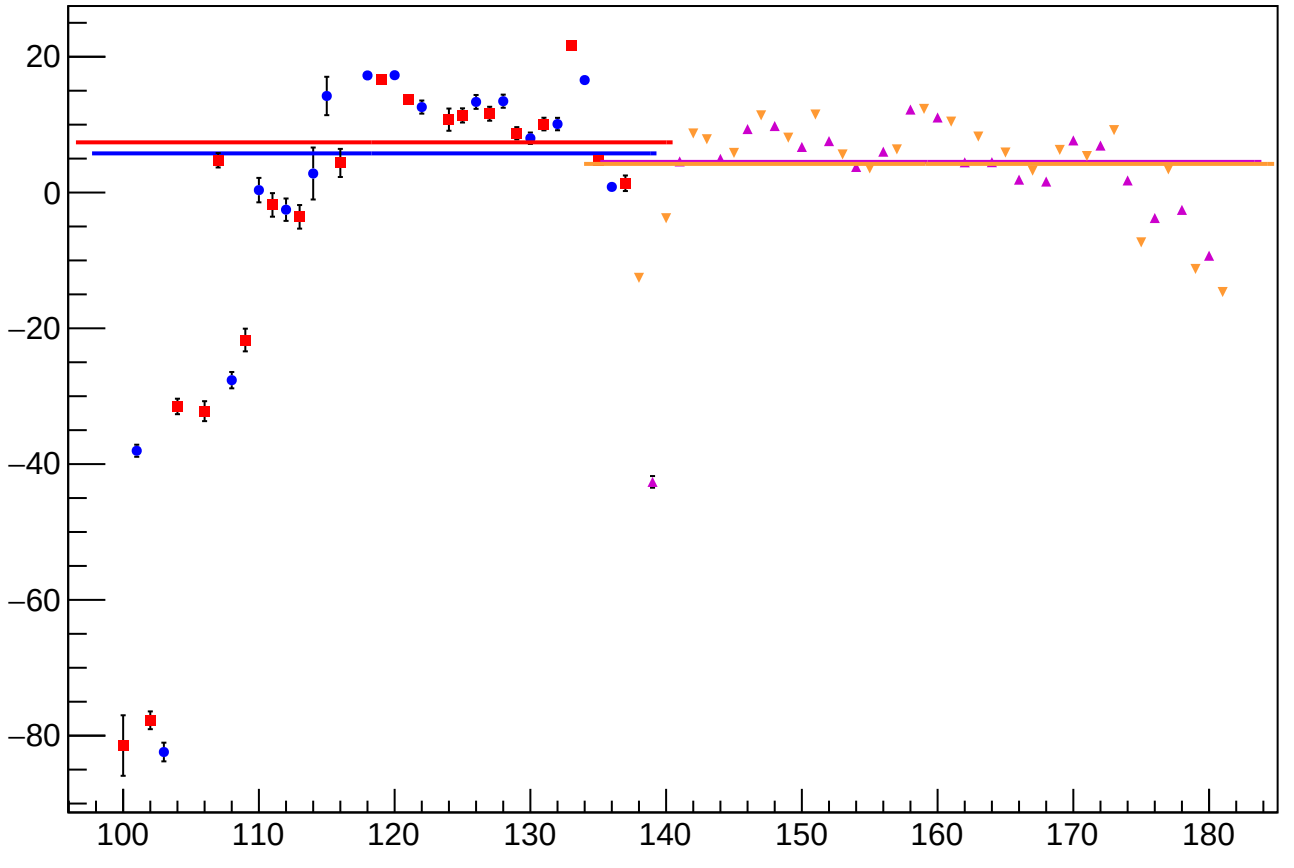
Left: 14.979+/-0.078 $\chi^2$/NDF: 33481.9/43

Right: 1.481+/-0.158 $\chi^2$/NDF: 1653.8/34

In: 11.782+/-0.101 $\chi^2$/NDF:17155.9/36

Out: 12.806+/-0.098 $\chi^2$/NDF:23796.6/41

All: 12.310+/-0.070 $\chi^2$/NDF: 41005.6/78




Right In: 5.768+/-0.210 $\chi^2$/NDF: 8933.8/15

Left Out: 4.219+/-0.082 $\chi^2$/NDF:8155.8/22

Right Out: 7.393+/-0.209 $\chi^2$/NDF: 8390.6/18

Left In: 4.514+/-0.085 $\chi^2$/NDF:6514.1/20

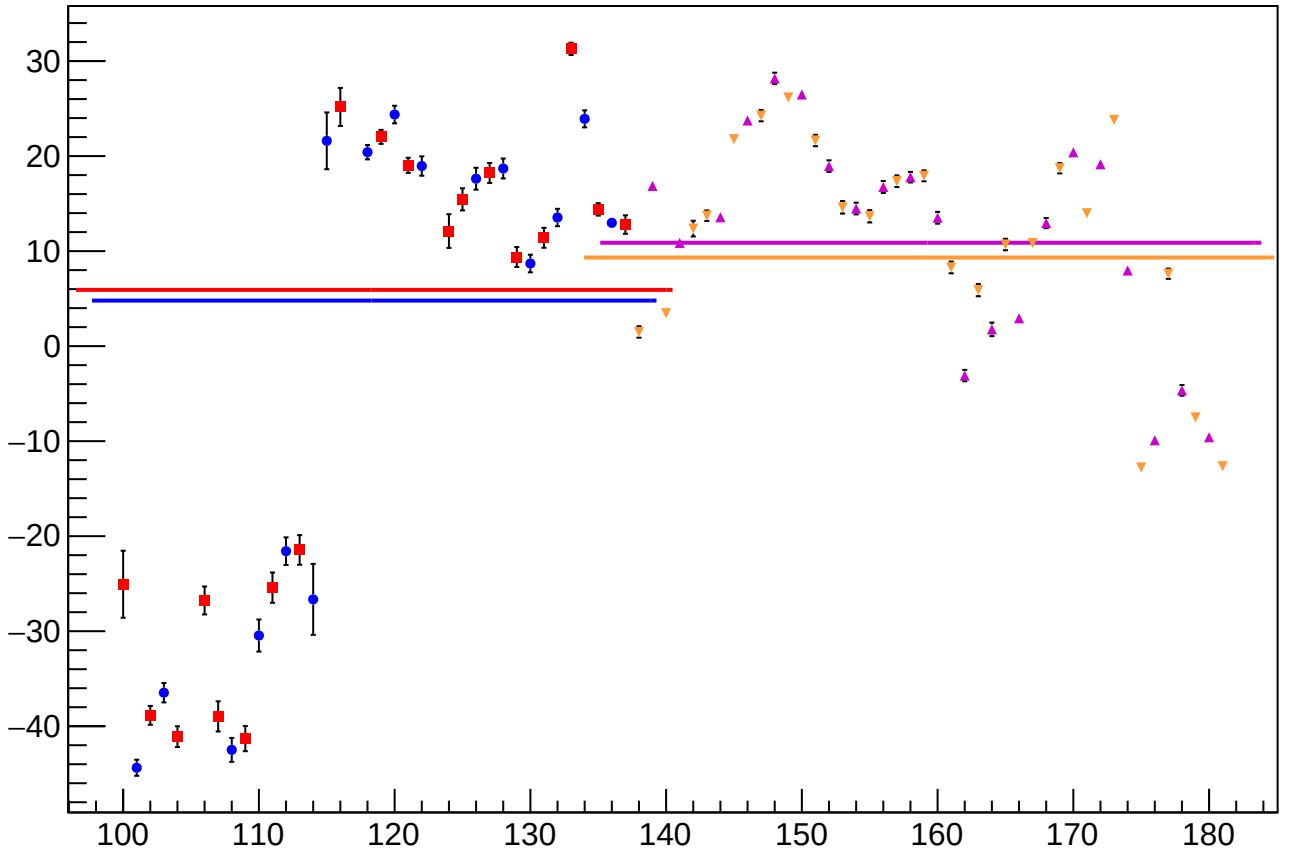
Left: 4.361+/-0.059 $\chi^2$/NDF: 14676.2/43

Right: 6.585+/-0.148 $\chi^2$/NDF: 17354.6/34

In: 4.692+/-0.079 $\chi^2$/NDF:15478.6/36

Out: 4.647+/-0.077 $\chi^2$/NDF:16746.5/41

All: 4.669+/-0.055 $\chi^2$/NDF: 32225.3/78




Right In: 4.794+/-0.237 $\chi^2$/NDF: 9496.9/15

Left Out: 9.326+/-0.108 $\chi^2$/NDF:13578.0/22

Right Out: 5.921+/-0.240 $\chi^2$/NDF: 10059.4/18

Left In: 10.881+/-0.112 $\chi^2$/NDF:11120.0/20

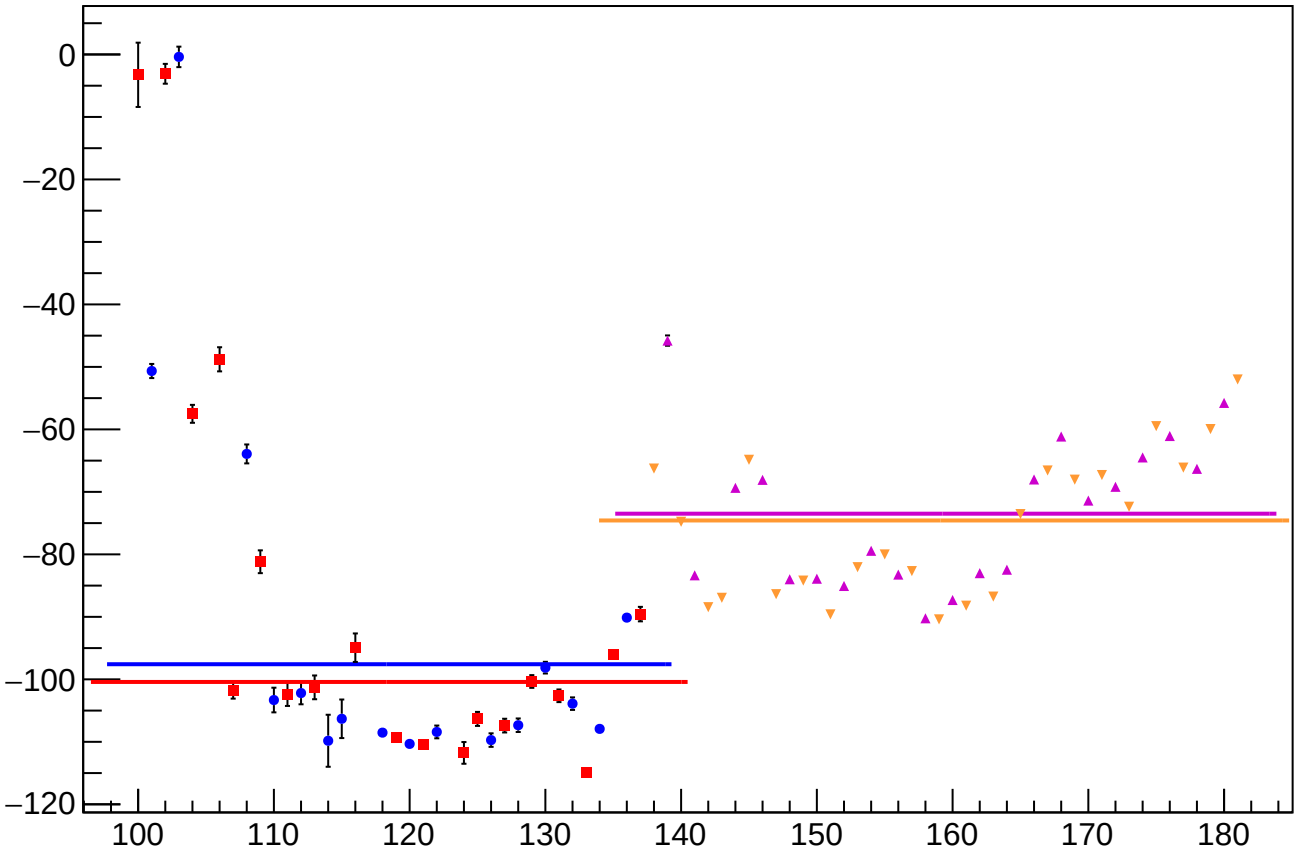
Left: 10.078+/-0.078 $\chi^2$/NDF: 24798.1/43

Right: 5.352+/-0.169 $\chi^2$/NDF: 19567.4/34

In: 9.778+/-0.101 $\chi^2$/NDF:21155.2/36

Out: 8.751+/-0.099 $\chi^2$/NDF:23804.8/41

All: 9.252+/-0.071 $\chi^2$/NDF: 45012.9/78




Right In: -97.581+/-0.242 $\chi^2$/NDF: 7144.2/15

Left Out: -74.575+/-0.093 $\chi^2$/NDF:14671.9/22

Right Out: -100.418+/-0.241 $\chi^2$/NDF: 7115.7/18

Left In: -73.491+/-0.096 $\chi^2$/NDF:11691.7/20

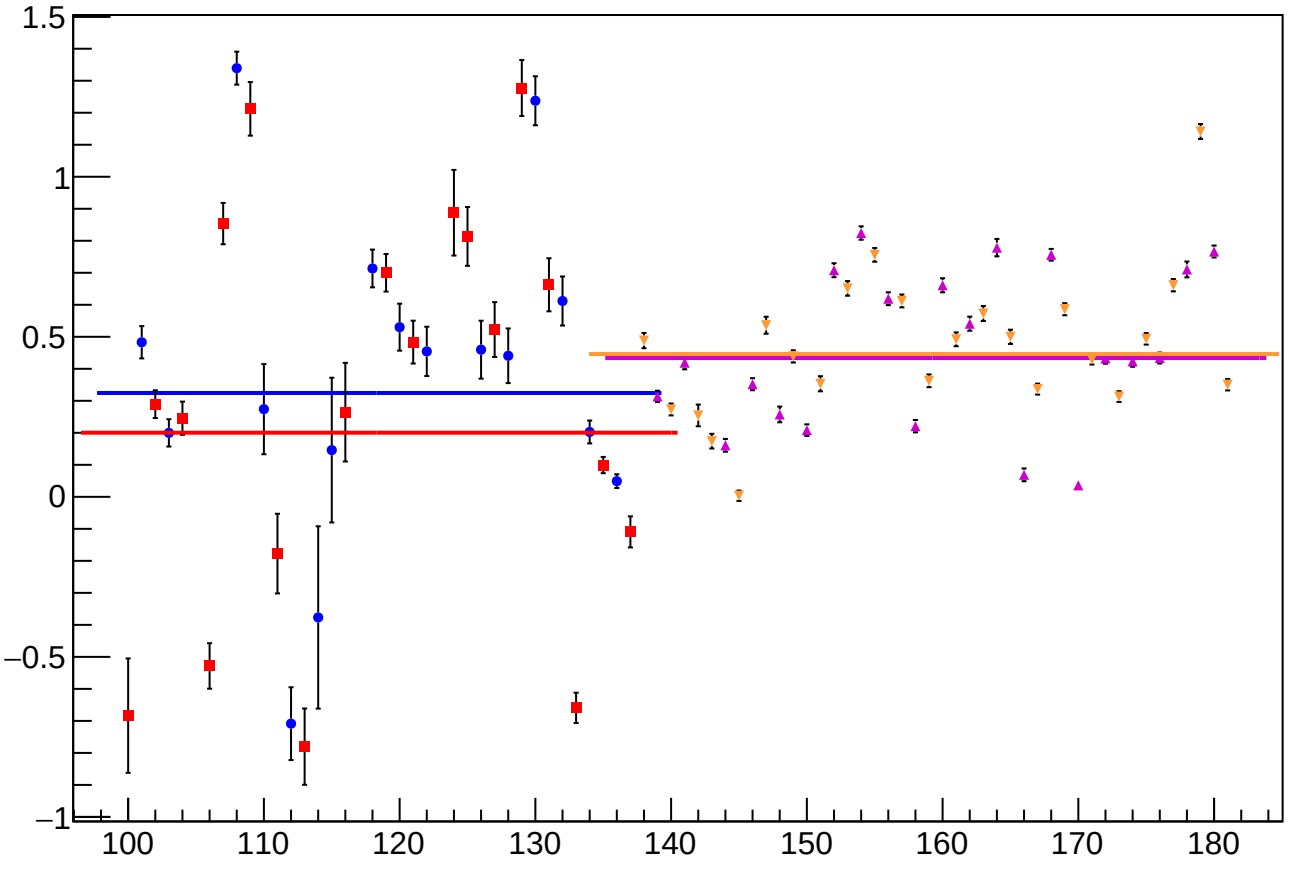
Left: -74.051+/-0.067 $\chi^2$/NDF: 26428.8/43

Right: -99.004+/-0.171 $\chi^2$/NDF: 14329.0/34

In: -76.802+/-0.090 $\chi^2$/NDF:27405.3/36

Out: -77.954+/-0.087 $\chi^2$/NDF:31784.9/41

All: -77.394+/-0.062 $\chi^2$/NDF: 59275.1/78




Right In: 0.324+/-0.013 $\chi^2$/NDF: 886.5/15

Left Out: 0.446+/-0.004 $\chi^2$/NDF:2649.5/22

Right Out: 0.200+/-0.014 $\chi^2$/NDF: 1206.3/18

Left In: 0.434+/-0.004 $\chi^2$/NDF:3181.3/20

Left: 0.440+/-0.003 $\chi^2$/NDF: 5835.2/43

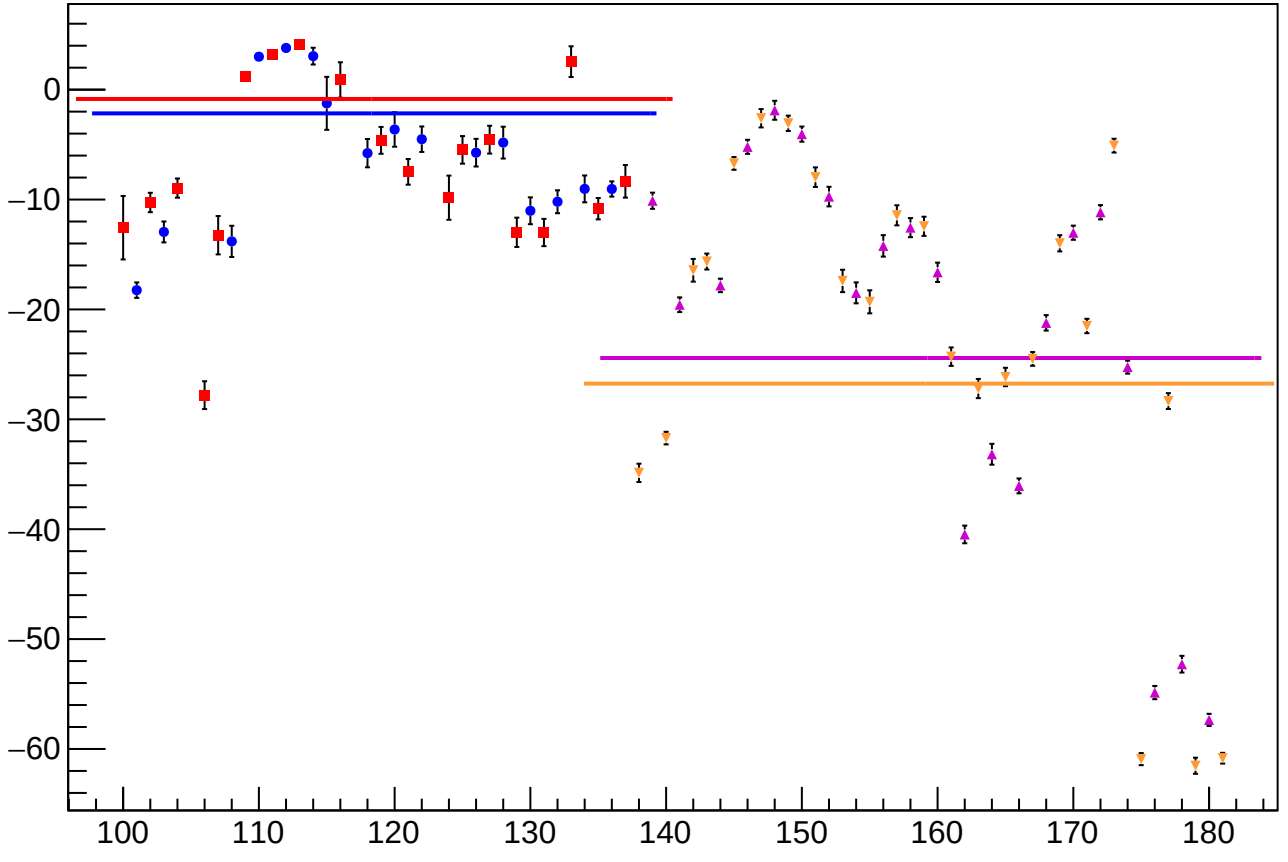
Right: 0.265+/-0.010 $\chi^2$/NDF: 2134.6/34

In: 0.423+/-0.004 $\chi^2$/NDF:4129.0/36

Out: 0.425+/-0.004 $\chi^2$/NDF:4144.4/41

All: 0.424+/-0.003 $\chi^2$/NDF: 8273.5/78

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -2.159+/-0.192 $\chi^2$/NDF: 1491.0/15

Left Out: -26.751+/-0.151 $\chi^2$/NDF:17375.3/22

Right Out: -0.848+/-0.170 $\chi^2$/NDF: 1465.4/18

Left In: -24.419+/-0.157 $\chi^2$/NDF:12631.3/20

Left: -25.631+/-0.109 $\chi^2$/NDF: 30121.9/43

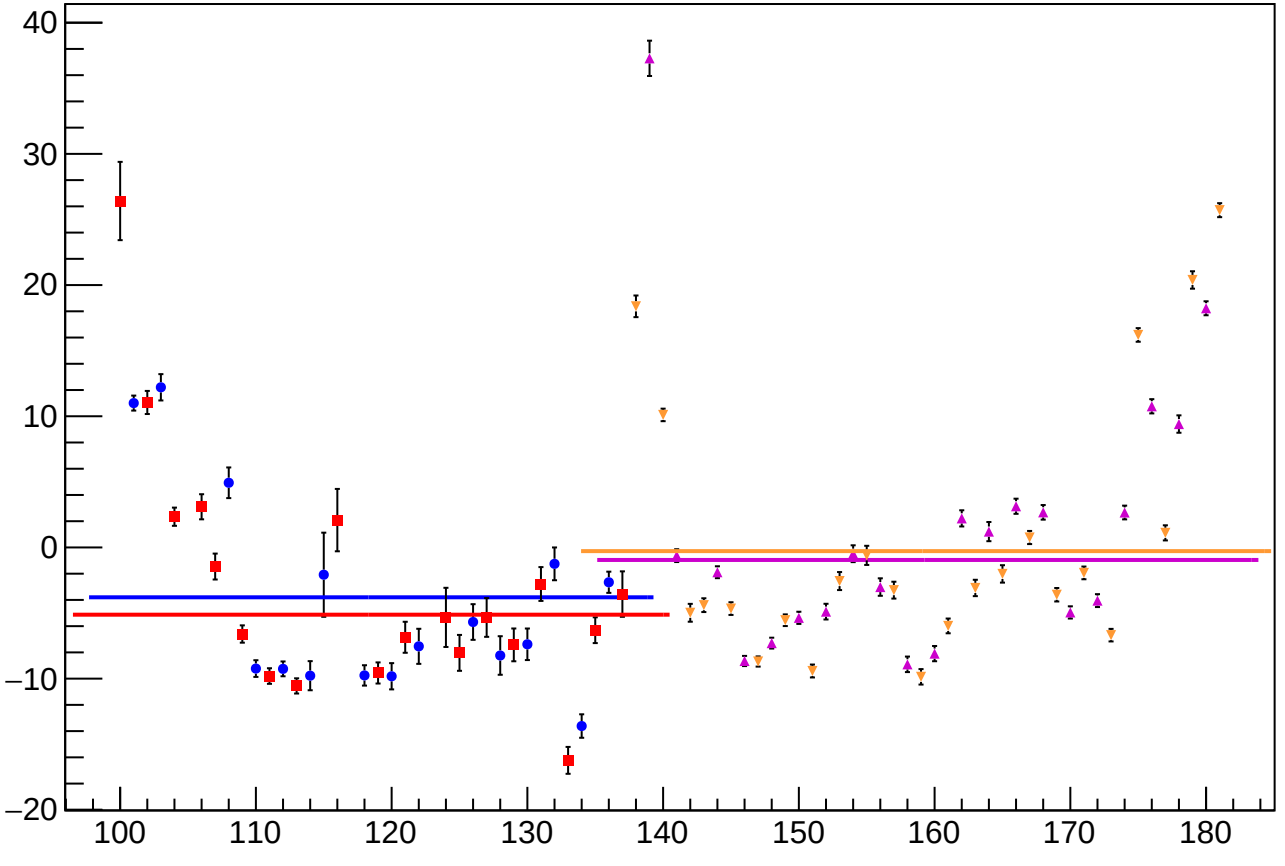
Right: -1.426+/-0.127 $\chi^2$/NDF: 2982.5/34

In: -15.526+/-0.121 $\chi^2$/NDF:22195.0/36

Out: -15.392+/-0.113 $\chi^2$/NDF:31815.5/41

All: -15.454+/-0.083 $\chi^2$/NDF: 54011.1/78

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -3.800+/-0.226 $\chi^2$/NDF: 1425.5/15

Left Out: -0.280+/-0.113 $\chi^2$/NDF:7151.3/22

Right Out: -5.126+/-0.219 $\chi^2$/NDF: 980.6/18

Left In: -0.954+/-0.118 $\chi^2$/NDF:4209.5/20

Left: -0.605+/-0.082 $\chi^2$/NDF: 11377.8/43

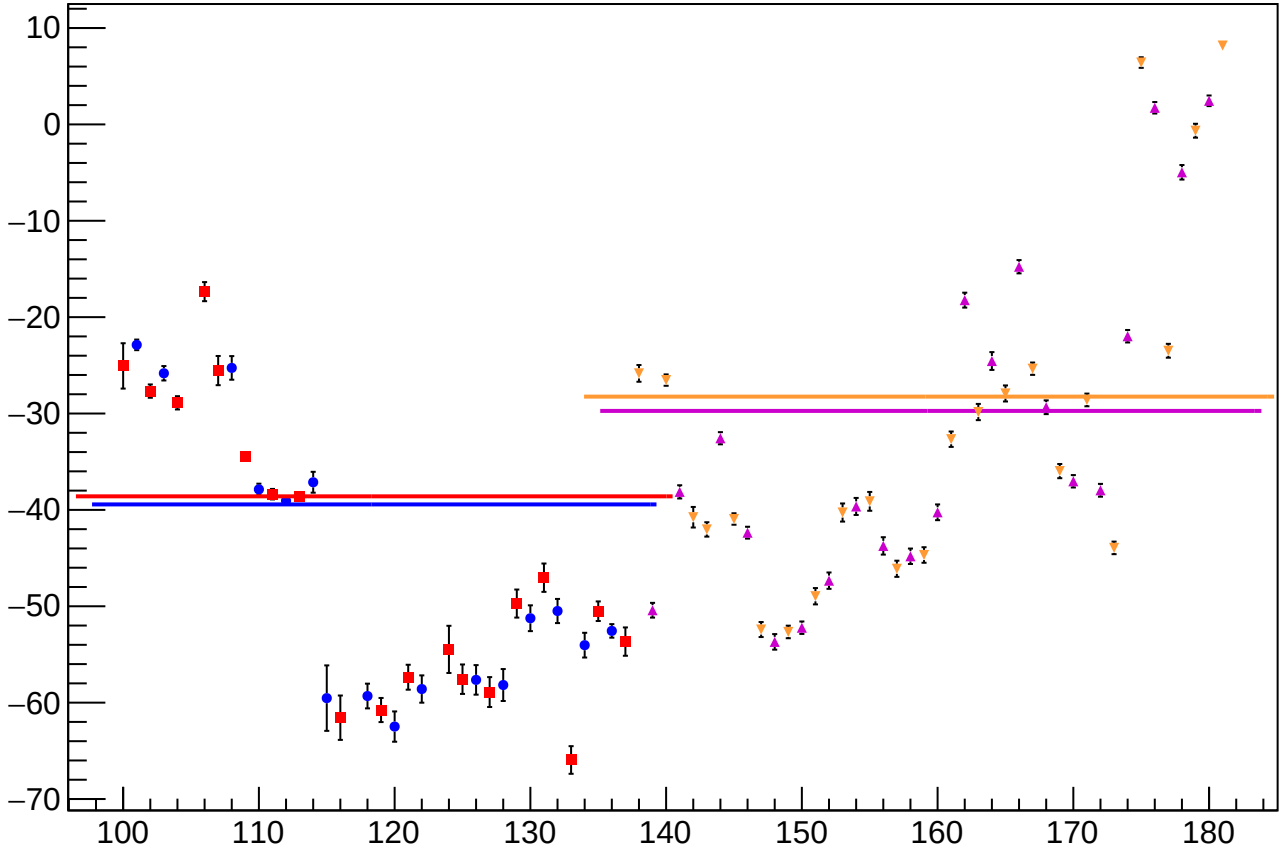
Right: -4.484+/-0.157 $\chi^2$/NDF: 2423.8/34

In: -1.562+/-0.104 $\chi^2$/NDF:5760.1/36

Out: -1.305+/-0.101 $\chi^2$/NDF:8518.8/41

All: -1.429+/-0.072 $\chi^2$/NDF: 14282.0/78

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -39.431+/-0.225 $\chi^2$/NDF: 2958.1/15

Left Out: -28.246+/-0.150 $\chi^2$/NDF:16466.4/22

Right Out: -38.593+/-0.213 $\chi^2$/NDF: 2772.1/18

Left In: -29.729+/-0.155 $\chi^2$/NDF:13154.3/20

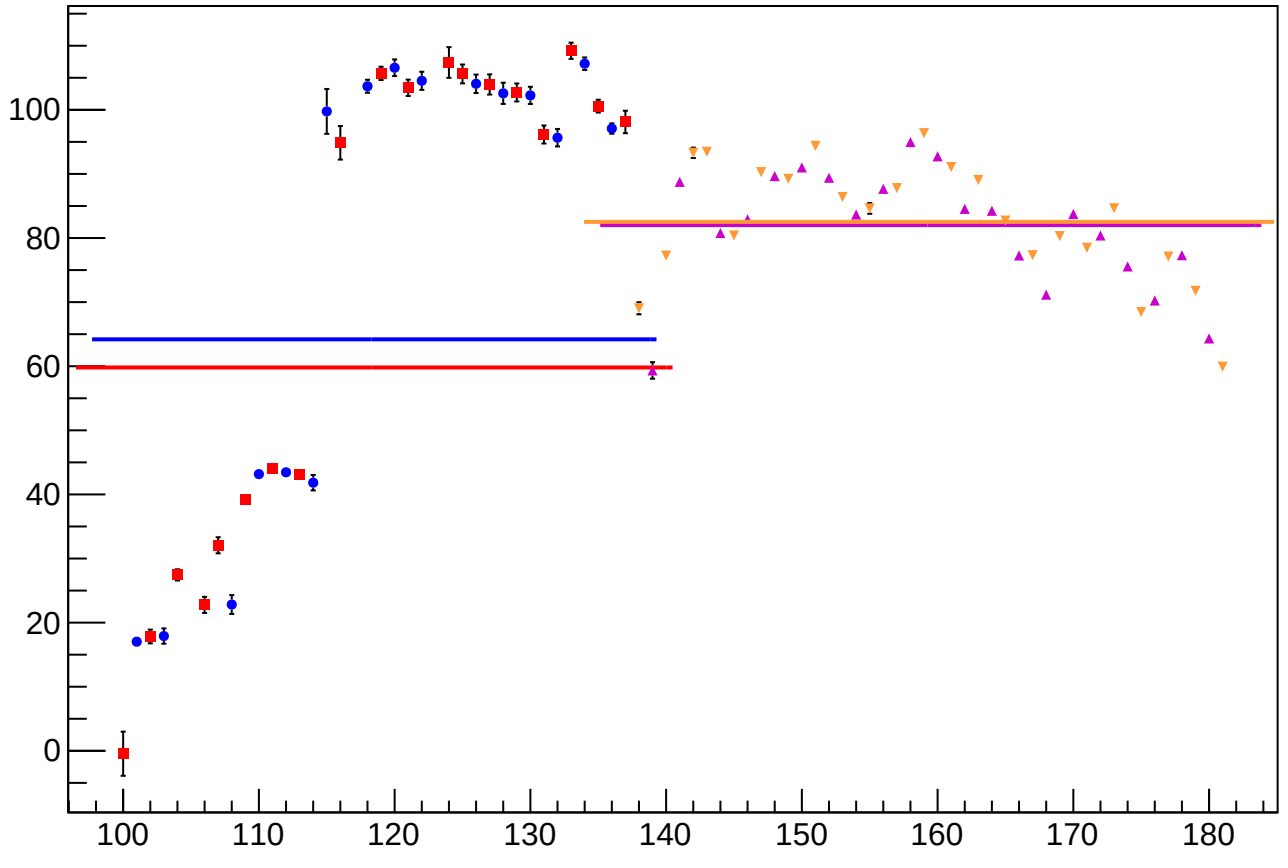
Left: -28.962+/-0.108 $\chi^2$/NDF: 29668.2/43

Right: -38.987+/-0.155 $\chi^2$/NDF: 5737.6/34

In: -32.841+/-0.128 $\chi^2$/NDF:17370.4/36

Out: -31.676+/-0.122 $\chi^2$/NDF:20822.7/41

All: -32.234+/-0.088 $\chi^2$/NDF: 38236.5/78




Right In: 64.196+/-0.258 $\chi^2$/NDF: 18596.4/15

Left Out: 82.523+/-0.129 $\chi^2$/NDF:5133.4/22

Right Out: 59.805+/-0.249 $\chi^2$/NDF: 17431.2/18

Left In: 82.022+/-0.133 $\chi^2$/NDF:3765.4/20

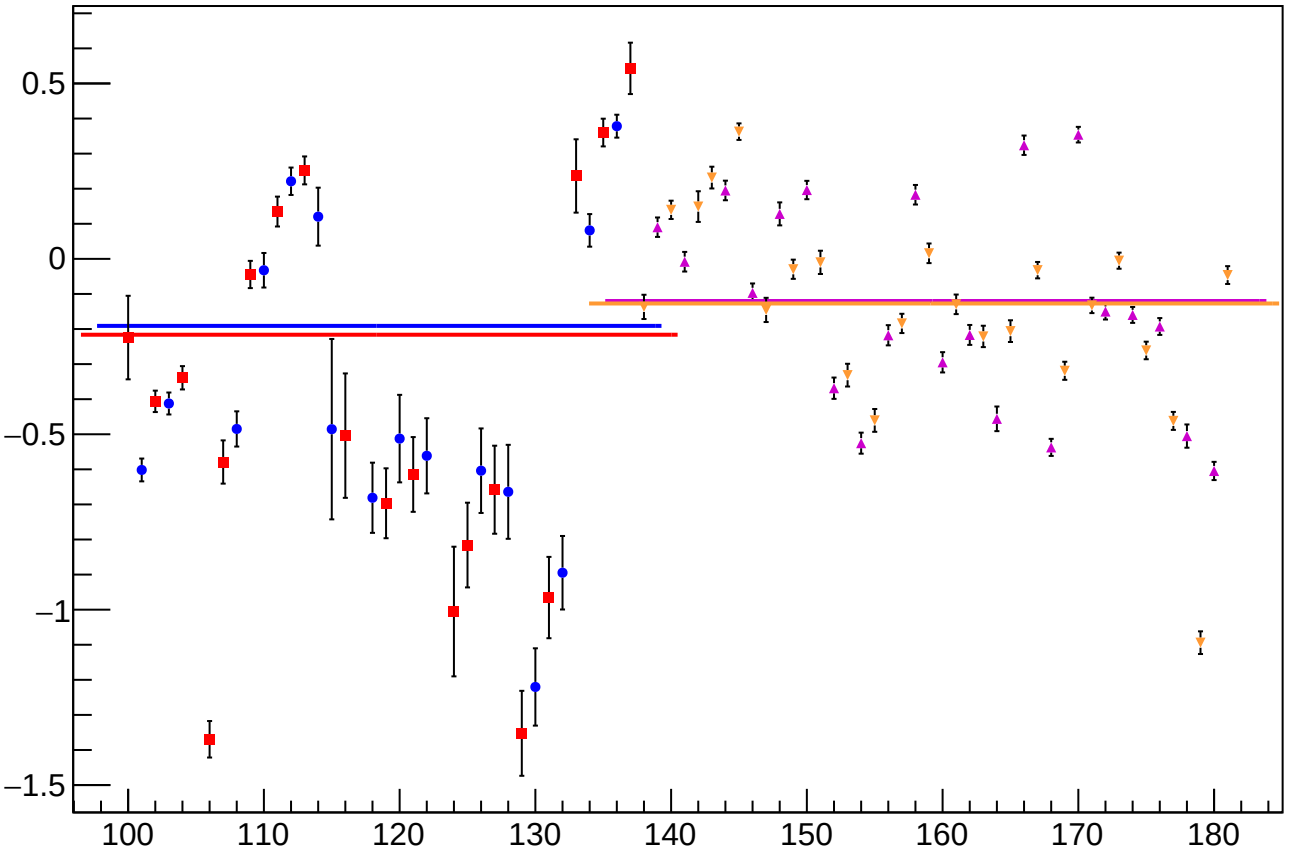
Left: 82.281+/-0.092 $\chi^2$/NDF: 8906.2/43

Right: 61.924+/-0.179 $\chi^2$/NDF: 36178.0/34

In: 78.271+/-0.118 $\chi^2$/NDF:26145.9/36

Out: 77.728+/-0.114 $\chi^2$/NDF:29145.7/41

All: 77.990+/-0.082 $\chi^2$/NDF: 55302.5/78




Right In: -0.191+/-0.013 $\chi^2$/NDF: 918.3/15

Left Out: -0.127+/-0.006 $\chi^2$/NDF:2131.5/22

Right Out: -0.216+/-0.013 $\chi^2$/NDF: 1368.1/18

Left In: -0.120+/-0.006 $\chi^2$/NDF:2426.6/20

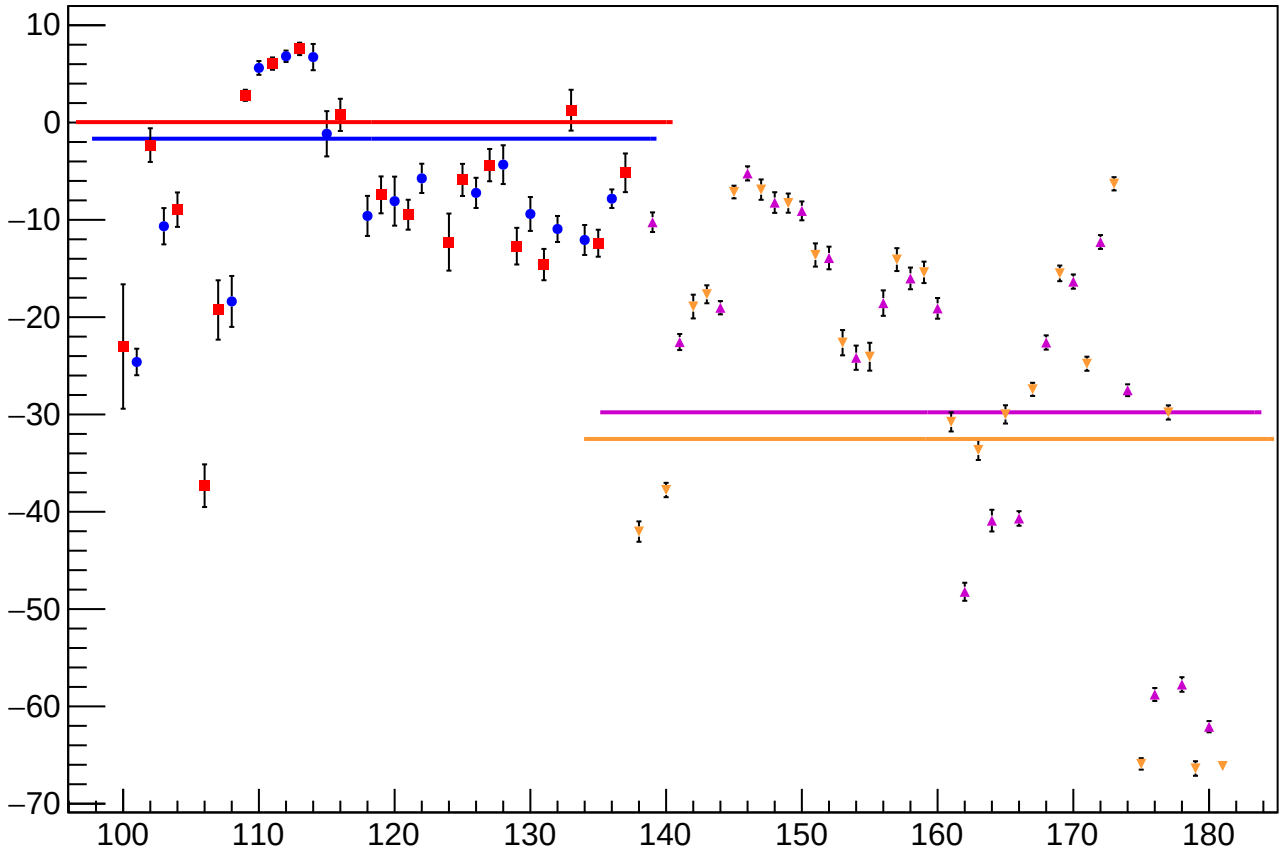
Left: -0.124+/-0.004 $\chi^2$/NDF: 4558.8/43

Right: -0.204+/-0.009 $\chi^2$/NDF: 2288.3/34

In: -0.132+/-0.005 $\chi^2$/NDF:3368.2/36

Out: -0.142+/-0.005 $\chi^2$/NDF:3539.0/41

All: -0.137+/-0.004 $\chi^2$/NDF: 6909.2/78




Right In: -1.661+/-0.308 $\chi^2$/NDF: 900.3/15

Left Out: -32.518+/-0.173 $\chi^2$/NDF:15730.6/22

Right Out: 0.042+/-0.282 $\chi^2$/NDF: 931.1/18

Left In: -29.778+/-0.179 $\chi^2$/NDF:11402.9/20

Left: -31.194+/-0.124 $\chi^2$/NDF: 27254.8/43

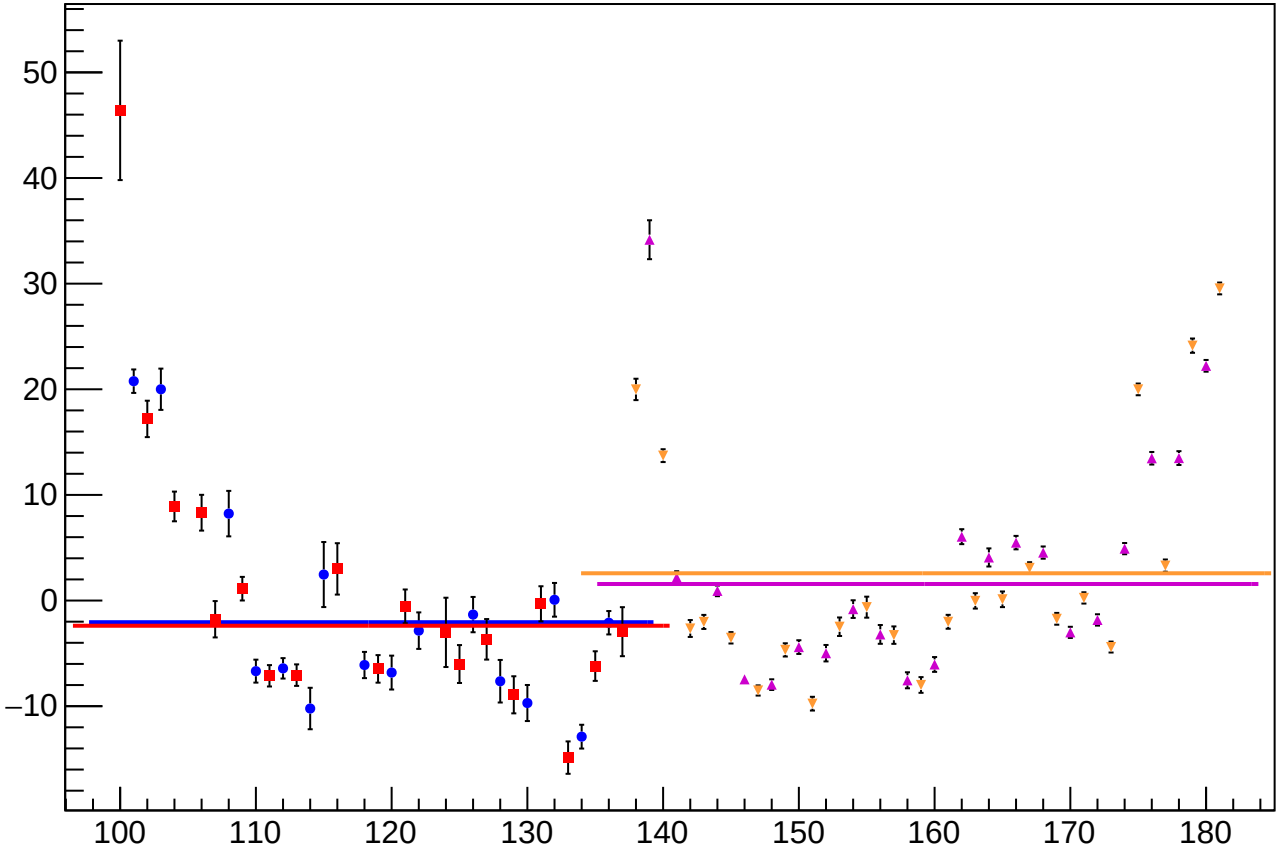
Right: -0.734+/-0.208 $\chi^2$/NDF: 1848.1/34

In: -22.690+/-0.155 $\chi^2$/NDF:18533.3/36

Out: -23.619+/-0.147 $\chi^2$/NDF:26355.7/41

All: -23.177+/-0.107 $\chi^2$/NDF: 44907.9/78

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -2.050+/-0.356 $\chi^2$/NDF: 771.9/15

Left Out: 2.582+/-0.132 $\chi^2$/NDF:6817.2/22

Right Out: -2.386+/-0.355 $\chi^2$/NDF: 450.9/18

Left In: 1.566+/-0.135 $\chi^2$/NDF:3947.8/20

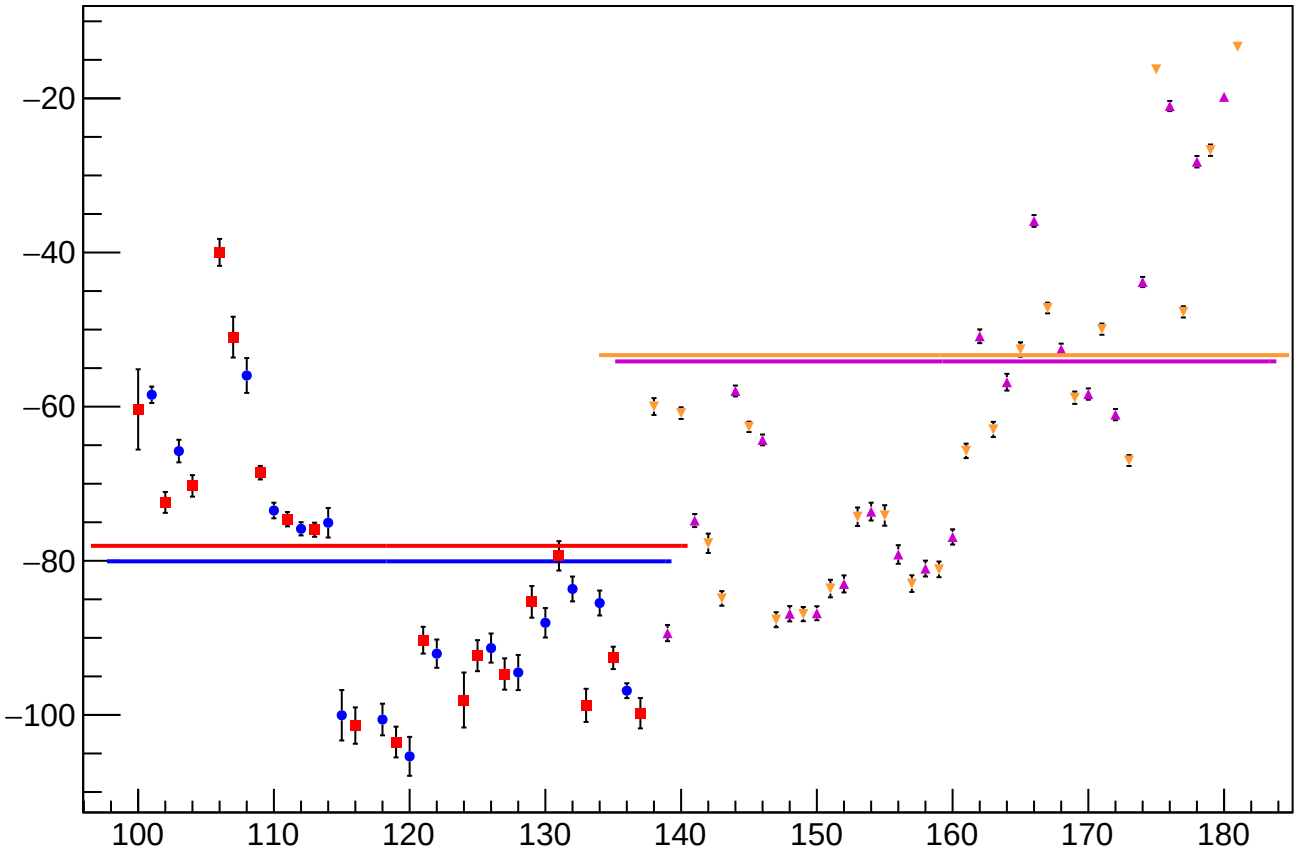
Left: 2.086+/-0.095 $\chi^2$/NDF: 10793.8/43

Right: -2.218+/-0.252 $\chi^2$/NDF: 1223.3/34

In: 1.110+/-0.126 $\chi^2$/NDF:4809.8/36

Out: 1.977+/-0.124 $\chi^2$/NDF:7439.9/41

All: 1.553+/-0.089 $\chi^2$/NDF: 12273.6/78




Right In: -80.069+/-0.364 $\chi^2$/NDF: 1387.2/15

Left Out: -53.314+/-0.173 $\chi^2$/NDF:18879.4/22

Right Out: -78.059+/-0.354 $\chi^2$/NDF: 1561.2/18

Left In: -54.129+/-0.178 $\chi^2$/NDF:15232.1/20

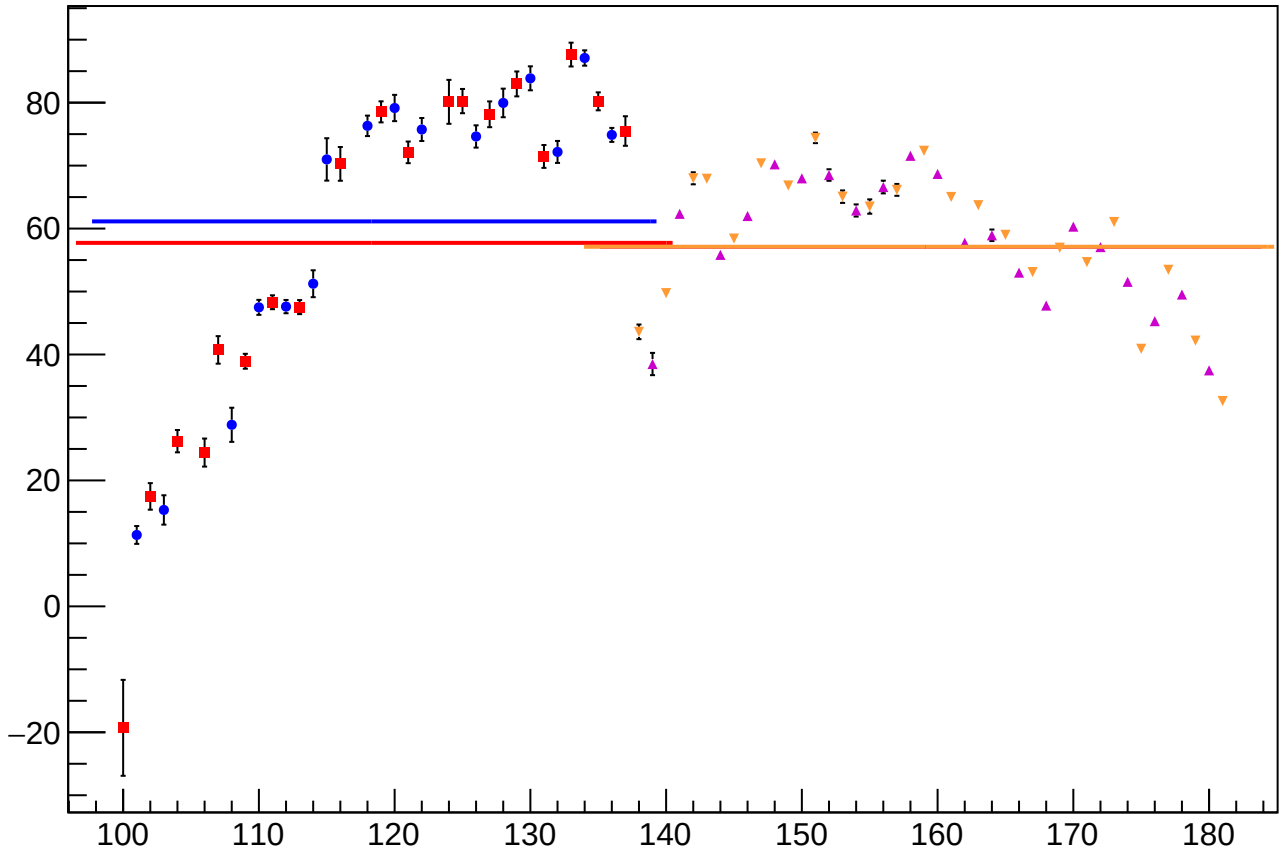
Left: -53.709+/-0.124 $\chi^2$/NDF: 34122.4/43

Right: -79.033+/-0.254 $\chi^2$/NDF: 2964.1/34

In: -59.115+/-0.160 $\chi^2$/NDF:20712.5/36

Out: -58.076+/-0.155 $\chi^2$/NDF:24397.3/41

All: -58.580+/-0.111 $\chi^2$/NDF: 45131.6/78




Right In: 61.139+/-0.401 $\chi^2$/NDF: 3229.3/15

Left Out: 57.107+/-0.149 $\chi^2$/NDF:5350.0/22

Right Out: 57.728+/-0.400 $\chi^2$/NDF: 2775.6/18

Left In: 57.078+/-0.153 $\chi^2$/NDF:3589.9/20

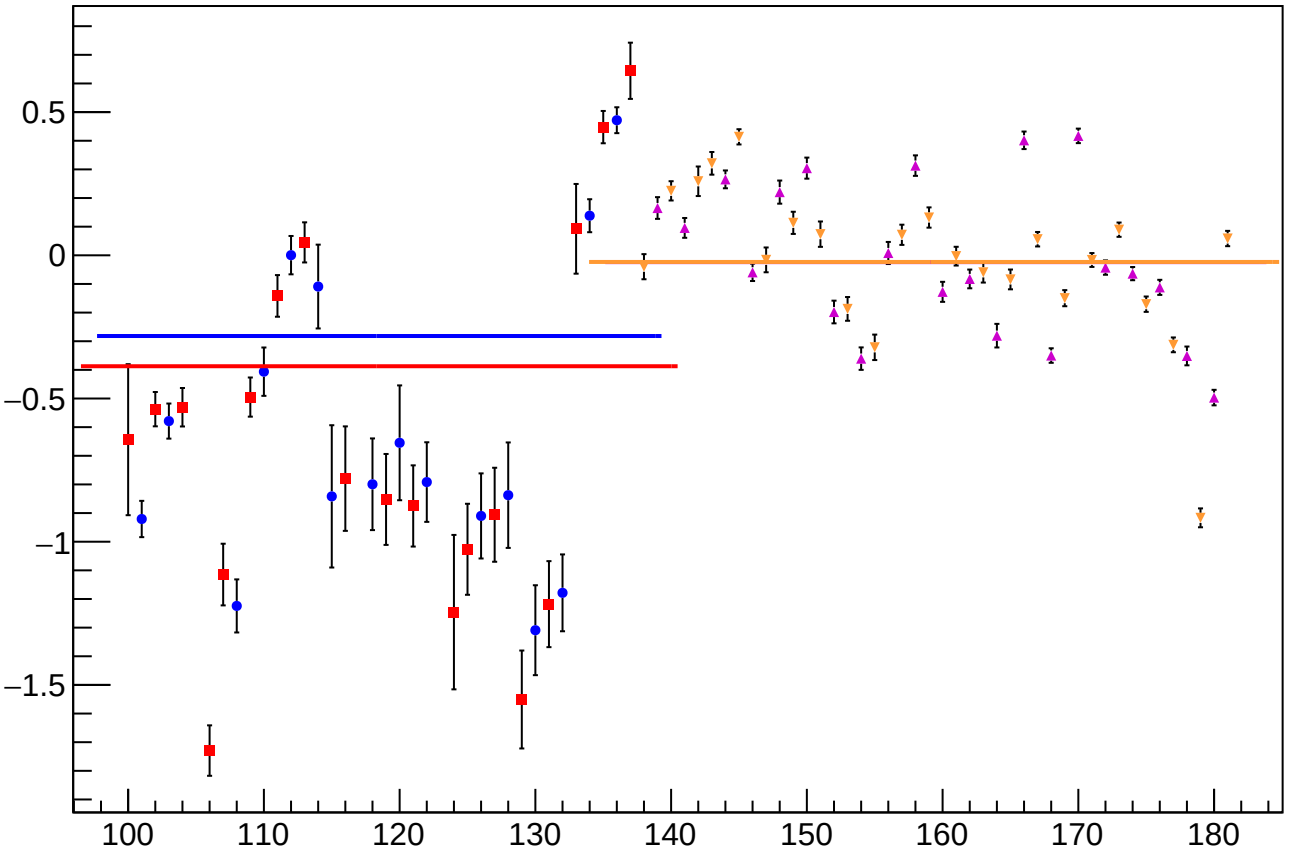
Left: 57.093+/-0.107 $\chi^2$/NDF: 8939.8/43

Right: 59.431+/-0.283 $\chi^2$/NDF: 6041.2/34

In: 57.593+/-0.143 $\chi^2$/NDF:6908.9/36

Out: 57.182+/-0.140 $\chi^2$/NDF:8127.7/41

All: 57.384+/-0.100 $\chi^2$/NDF: 15040.8/78




Right In: -0.282+/-0.022 $\chi^2$/NDF: 728.2/15

Left Out: -0.023+/-0.007 $\chi^2$/NDF:1488.6/22

Right Out: -0.387+/-0.022 $\chi^2$/NDF: 818.7/18

Left In: -0.024+/-0.007 $\chi^2$/NDF:1554.0/20

Left: -0.023+/-0.005 $\chi^2$/NDF: 3042.6/43

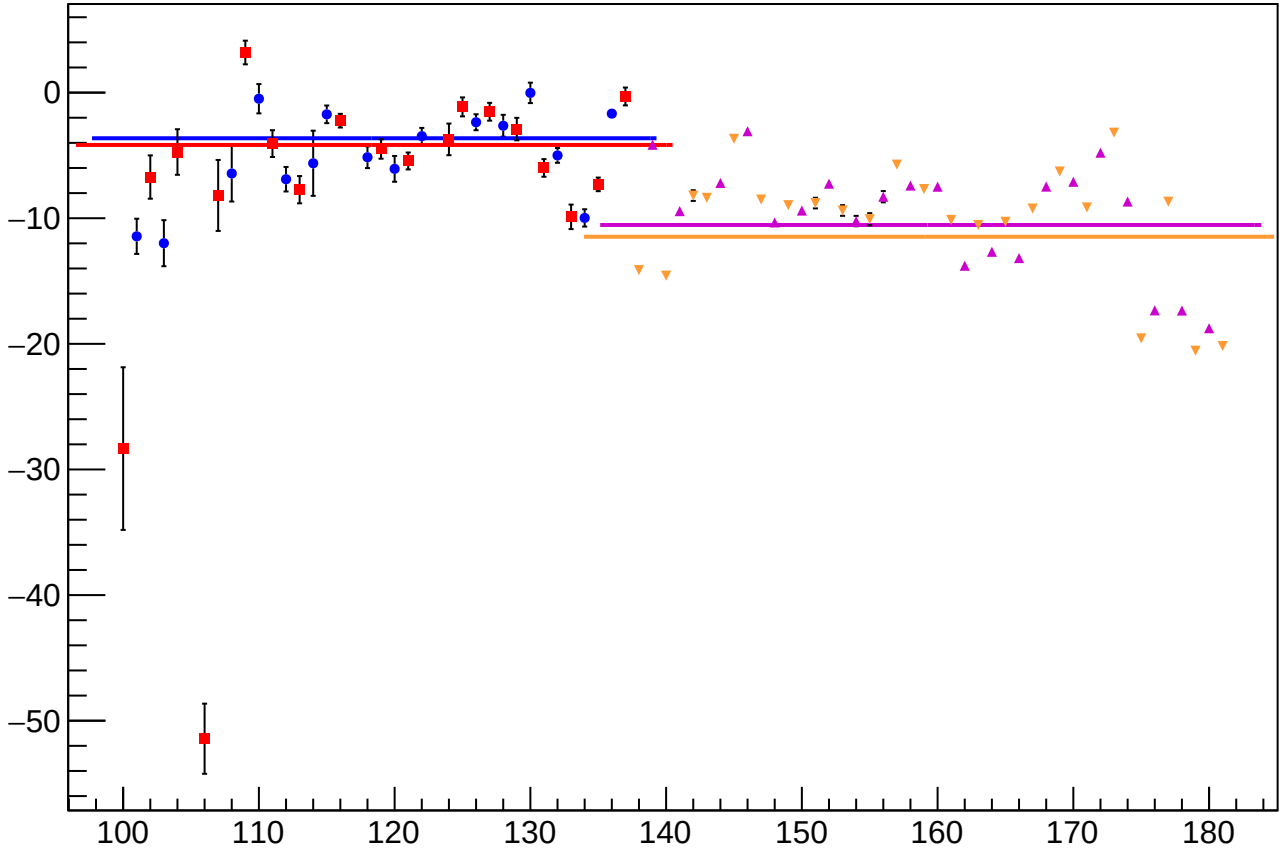
Right: -0.334+/-0.015 $\chi^2$/NDF: 1558.7/34

In: -0.047+/-0.007 $\chi^2$/NDF:2411.5/36

Out: -0.055+/-0.006 $\chi^2$/NDF:2559.8/41

All: -0.051+/-0.005 $\chi^2$/NDF: 4972.0/78

reg_asym_sam_1526_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -3.634+/-0.189 $\chi^2$/NDF: 234.8/15

Left Out: -11.474+/-0.055 $\chi^2$/NDF:11016.0/22

Right Out: -4.167+/-0.199 $\chi^2$/NDF: 529.7/18

Left In: -10.538+/-0.057 $\chi^2$/NDF:7447.1/20

Left: -11.019+/-0.040 $\chi^2$/NDF: 18601.6/43

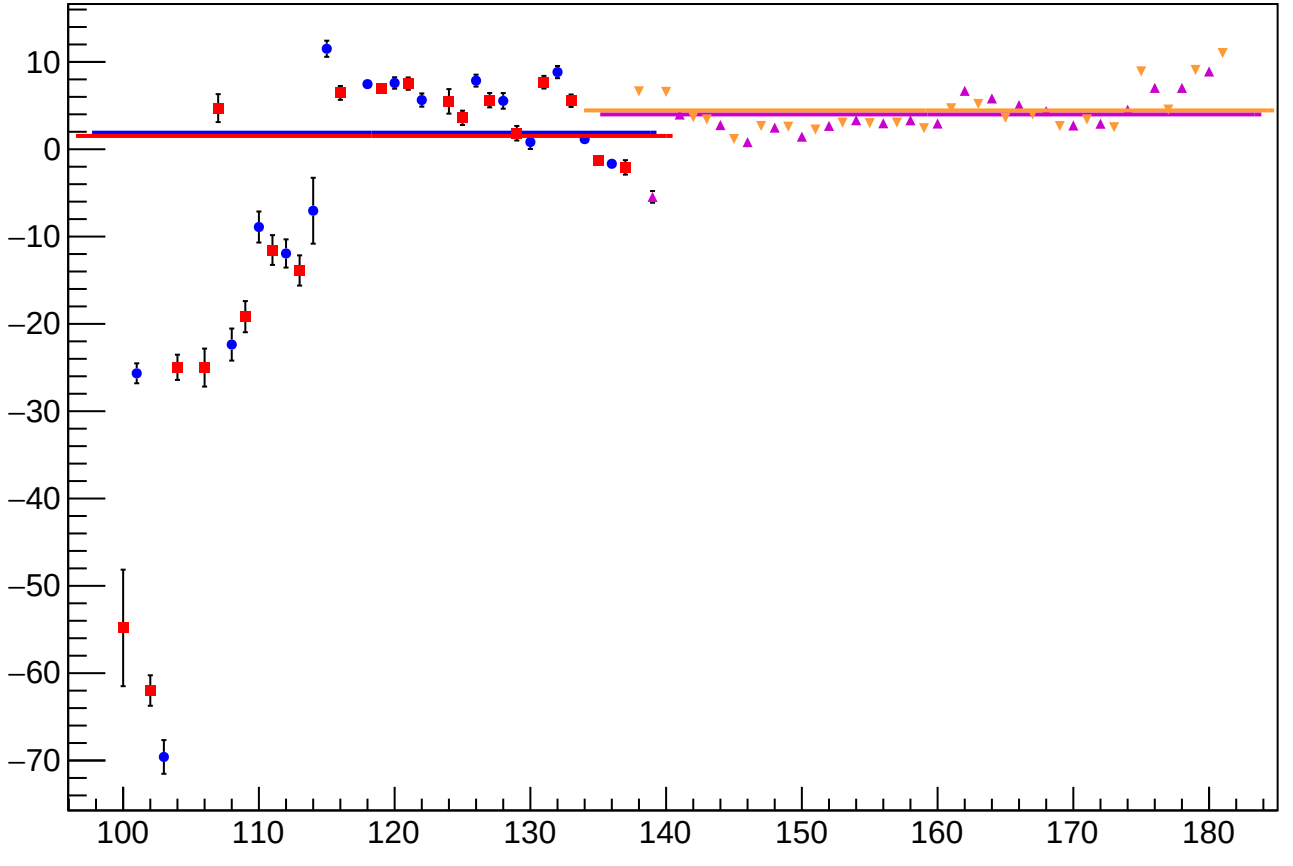
Right: -3.886+/-0.137 $\chi^2$/NDF: 768.2/34

In: -9.961+/-0.055 $\chi^2$/NDF:8904.3/36

Out: -10.950+/-0.053 $\chi^2$/NDF:12791.8/41

All: -10.467+/-0.038 $\chi^2$/NDF: 21863.5/78

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.898+/-0.189 $\chi^2$/NDF: 2838.2/15

Left Out: 4.449+/-0.043 $\chi^2$/NDF:3812.4/22

Right Out: 1.525+/-0.208 $\chi^2$/NDF: 2559.8/18

Left In: 3.989+/-0.043 $\chi^2$/NDF:2725.8/20

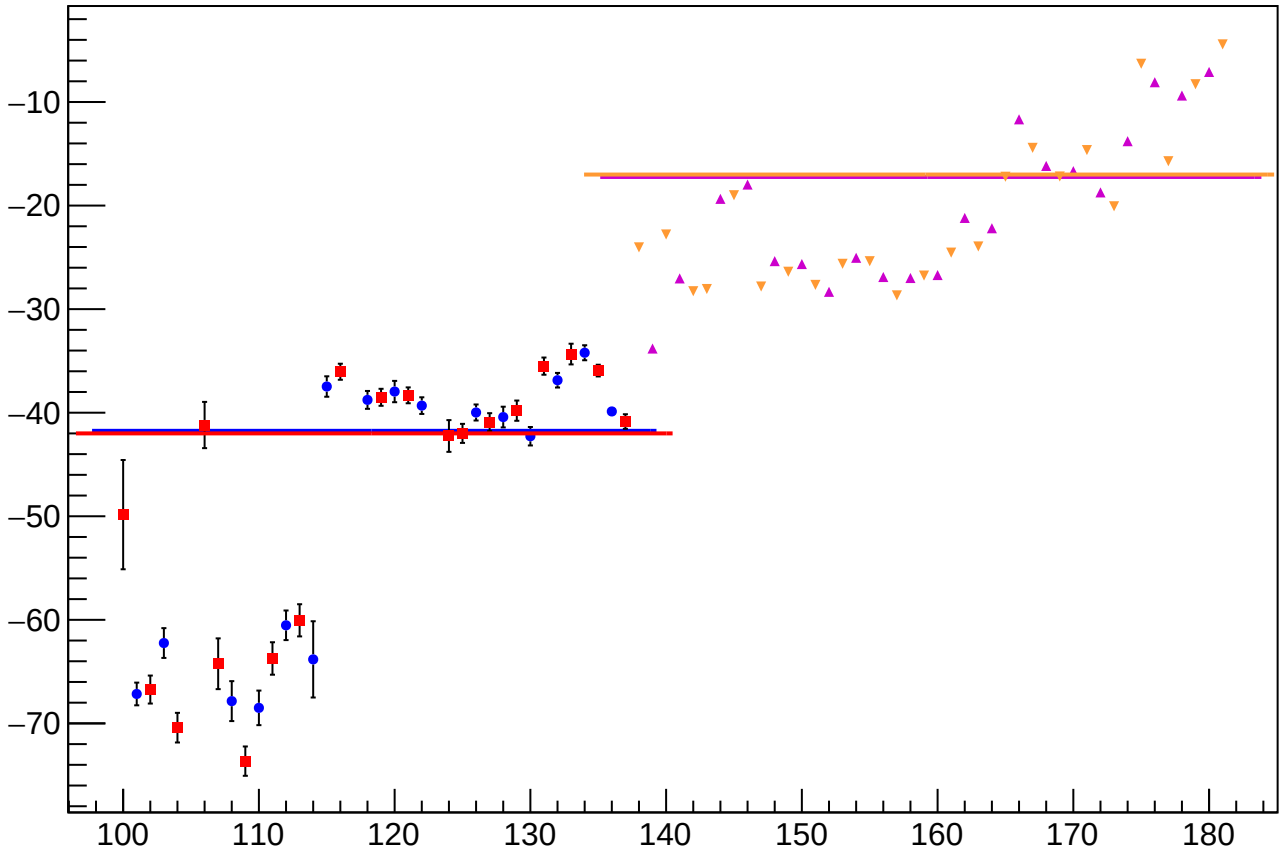
Left: 4.223+/-0.031 $\chi^2$/NDF: 6595.0/43

Right: 1.730+/-0.140 $\chi^2$/NDF: 5399.7/34

In: 3.884+/-0.042 $\chi^2$/NDF:5680.2/36

Out: 4.330+/-0.042 $\chi^2$/NDF:6561.3/41

All: 4.109+/-0.030 $\chi^2$/NDF: 12297.5/78




Right In: -41.751+/-0.208 $\chi^2$/NDF: 1633.9/15

Left Out: -17.005+/-0.055 $\chi^2$/NDF:20136.5/22

Right Out: -41.999+/-0.228 $\chi^2$/NDF: 1985.2/18

Left In: -17.237+/-0.057 $\chi^2$/NDF:15655.5/20

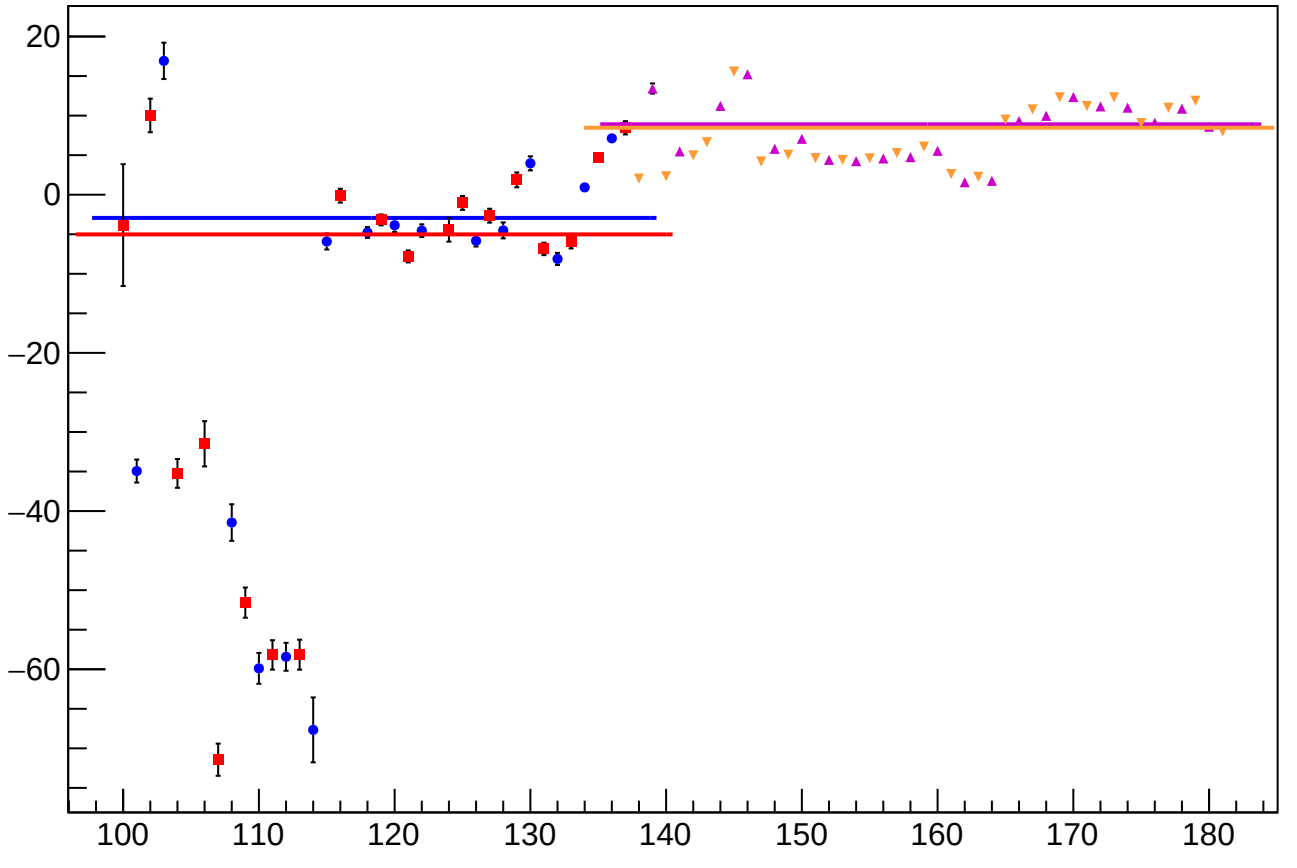
Left: -17.118+/-0.040 $\chi^2$/NDF: 35800.5/43

Right: -41.863+/-0.154 $\chi^2$/NDF: 3619.8/34

In: -18.943+/-0.055 $\chi^2$/NDF:30259.5/36

Out: -18.396+/-0.054 $\chi^2$/NDF:33443.8/41

All: -18.665+/-0.038 $\chi^2$/NDF: 63753.9/78




Right In: -2.936+/-0.210 $\chi^2$/NDF: 3725.6/15

Left Out: 8.468+/-0.048 $\chi^2$/NDF:6371.5/22

Right Out: -5.018+/-0.232 $\chi^2$/NDF: 4377.3/18

Left In: 8.901+/-0.049 $\chi^2$/NDF:5405.5/20

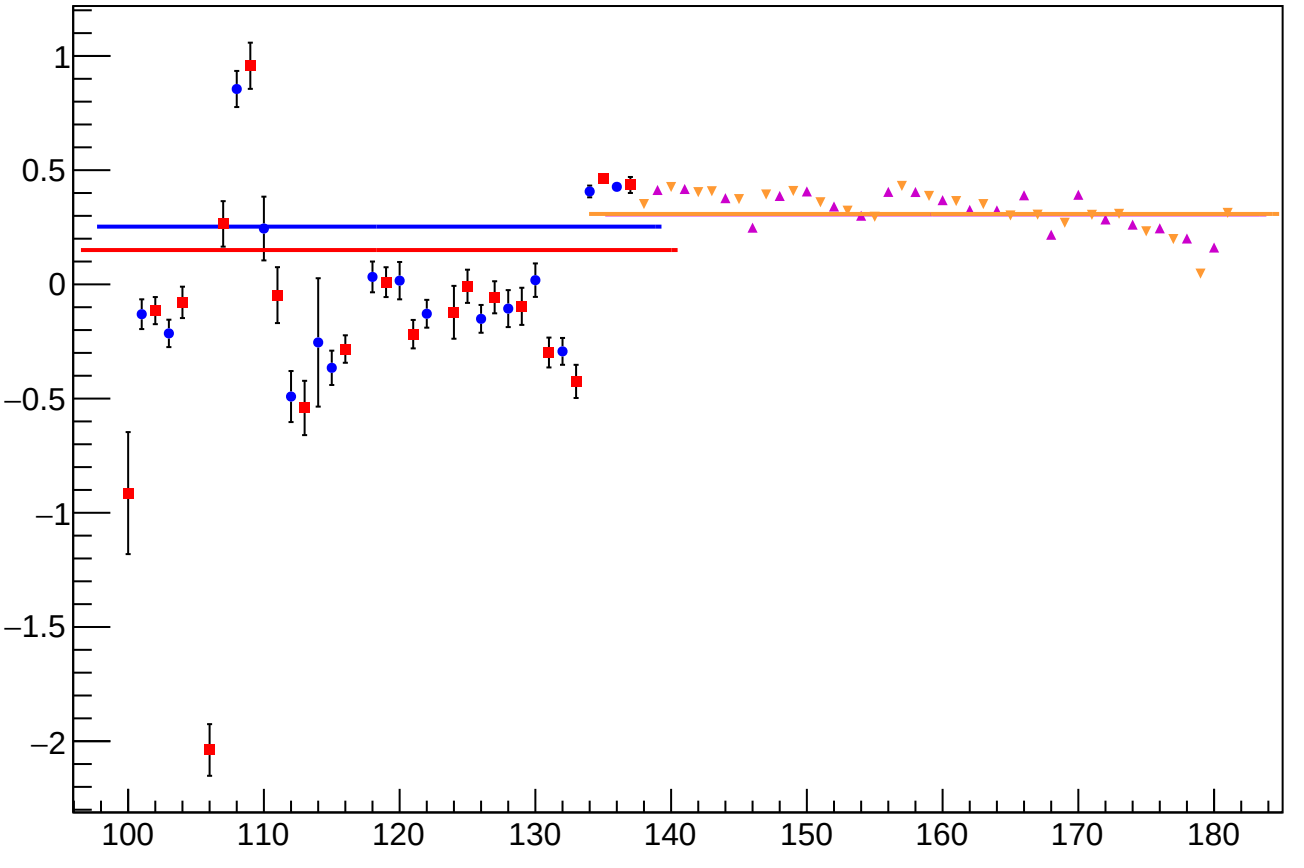
Left: 8.681+/-0.034 $\chi^2$/NDF: 11816.9/43

Right: -3.873+/-0.155 $\chi^2$/NDF: 8147.2/34

In: 8.292+/-0.048 $\chi^2$/NDF:12154.7/36

Out: 7.913+/-0.047 $\chi^2$/NDF:13994.4/41

All: 8.101+/-0.033 $\chi^2$/NDF: 26181.2/78




Right In: 0.253+/-0.011 $\chi^2$/NDF: 631.0/15

Left Out: 0.308+/-0.002 $\chi^2$/NDF:1507.1/22

Right Out: 0.150+/-0.013 $\chi^2$/NDF: 1018.0/18

Left In: 0.306+/-0.002 $\chi^2$/NDF:1335.0/20

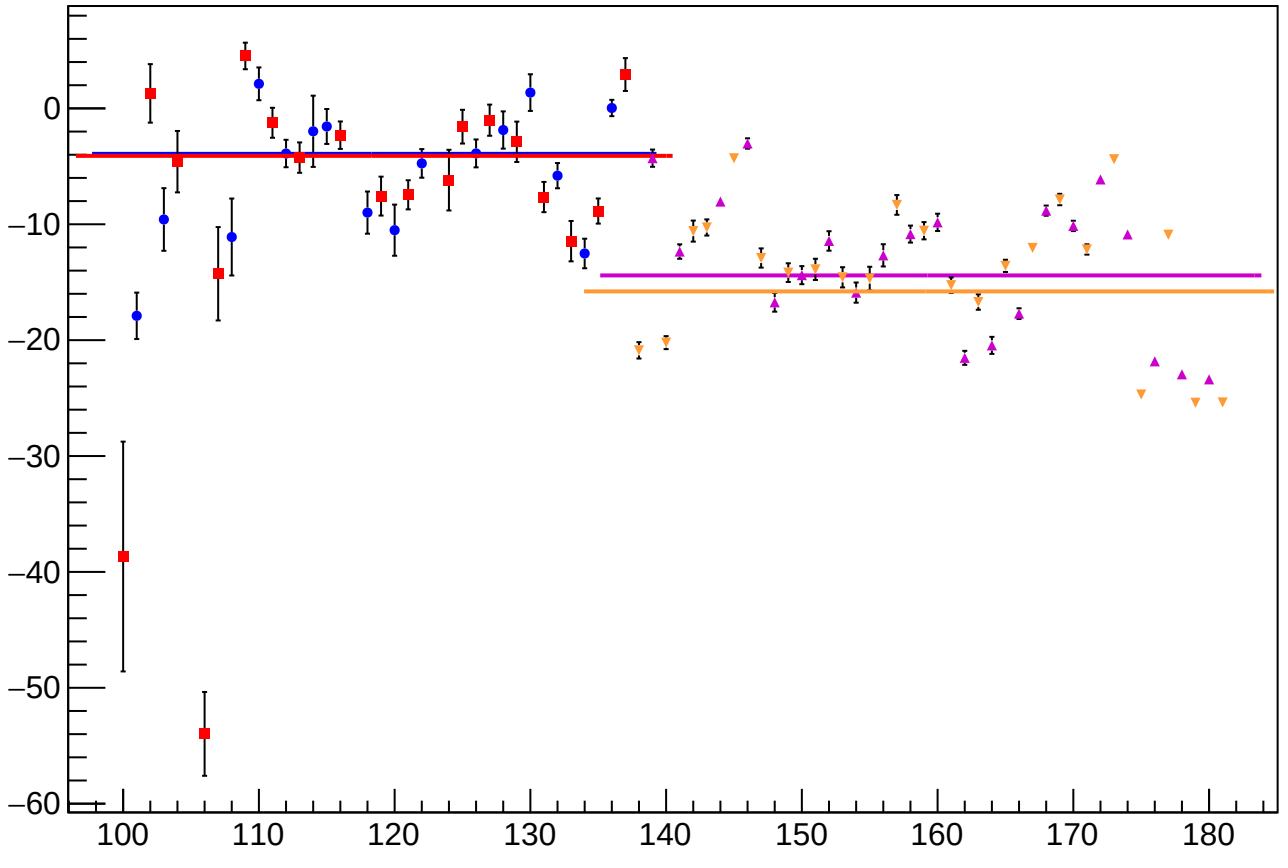
Left: 0.307+/-0.002 $\chi^2$/NDF: 2842.6/43

Right: 0.209+/-0.009 $\chi^2$/NDF: 1682.8/34

In: 0.304+/-0.002 $\chi^2$/NDF:1987.0/36

Out: 0.304+/-0.002 $\chi^2$/NDF:2661.6/41

All: 0.304+/-0.002 $\chi^2$/NDF: 4648.6/78




Right In: -3.924+/-0.346 $\chi^2$/NDF: 188.8/15

Left Out: -15.793+/-0.106 $\chi^2$/NDF:5108.1/22

Right Out: -4.096+/-0.357 $\chi^2$/NDF: 366.9/18

Left In: -14.414+/-0.110 $\chi^2$/NDF:3883.1/20

Left: -15.127+/-0.076 $\chi^2$/NDF: 9072.8/43

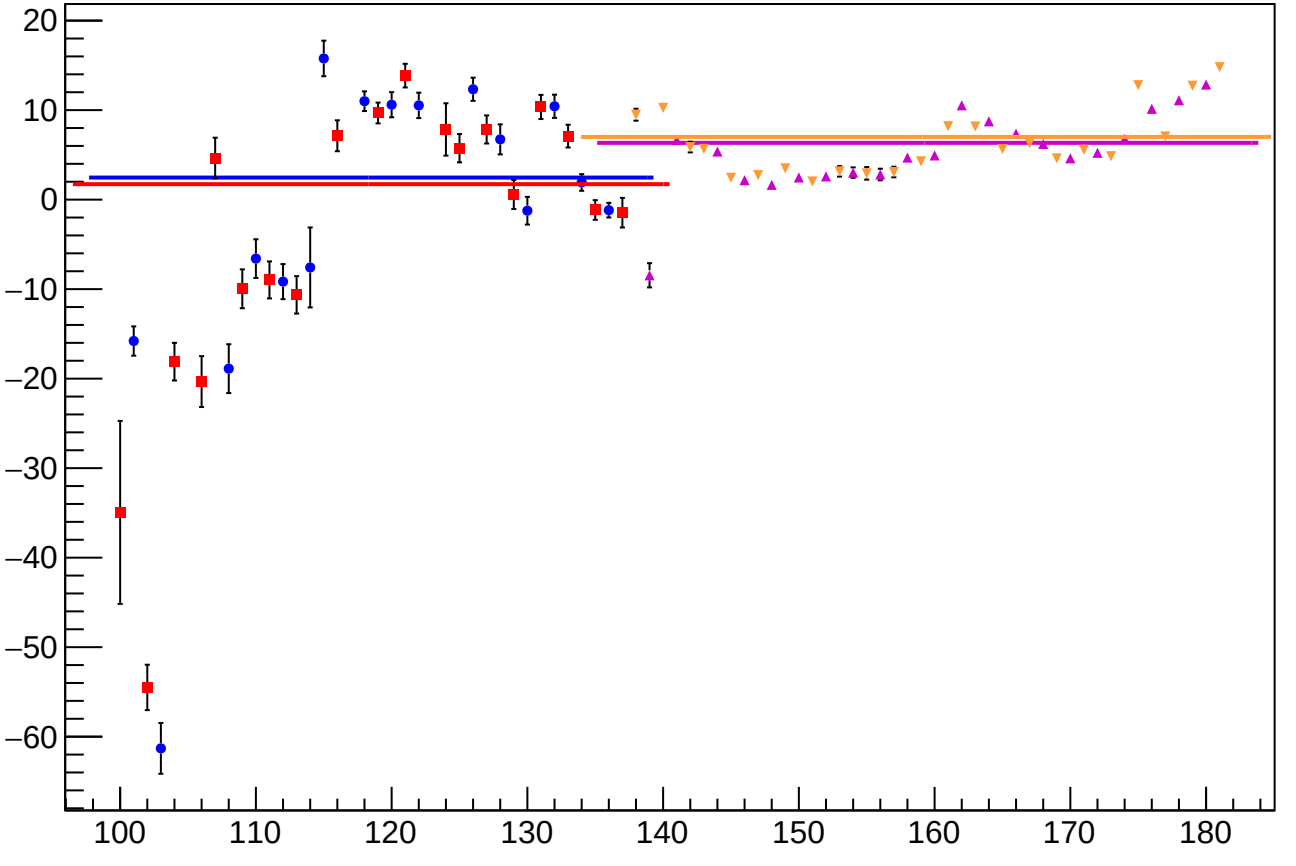
Right: -4.007+/-0.248 $\chi^2$/NDF: 555.8/34

In: -13.455+/-0.105 $\chi^2$/NDF:4906.9/36

Out: -14.844+/-0.102 $\chi^2$/NDF:6462.3/41

All: -14.169+/-0.073 $\chi^2$/NDF: 11459.8/78

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 2.465+/-0.357 $\chi^2$/NDF: 1046.7/15

Left Out: 7.008+/-0.084 $\chi^2$/NDF:2161.1/22

Right Out: 1.728+/-0.386 $\chi^2$/NDF: 983.1/18

Left In: 6.344+/-0.085 $\chi^2$/NDF:1703.6/20

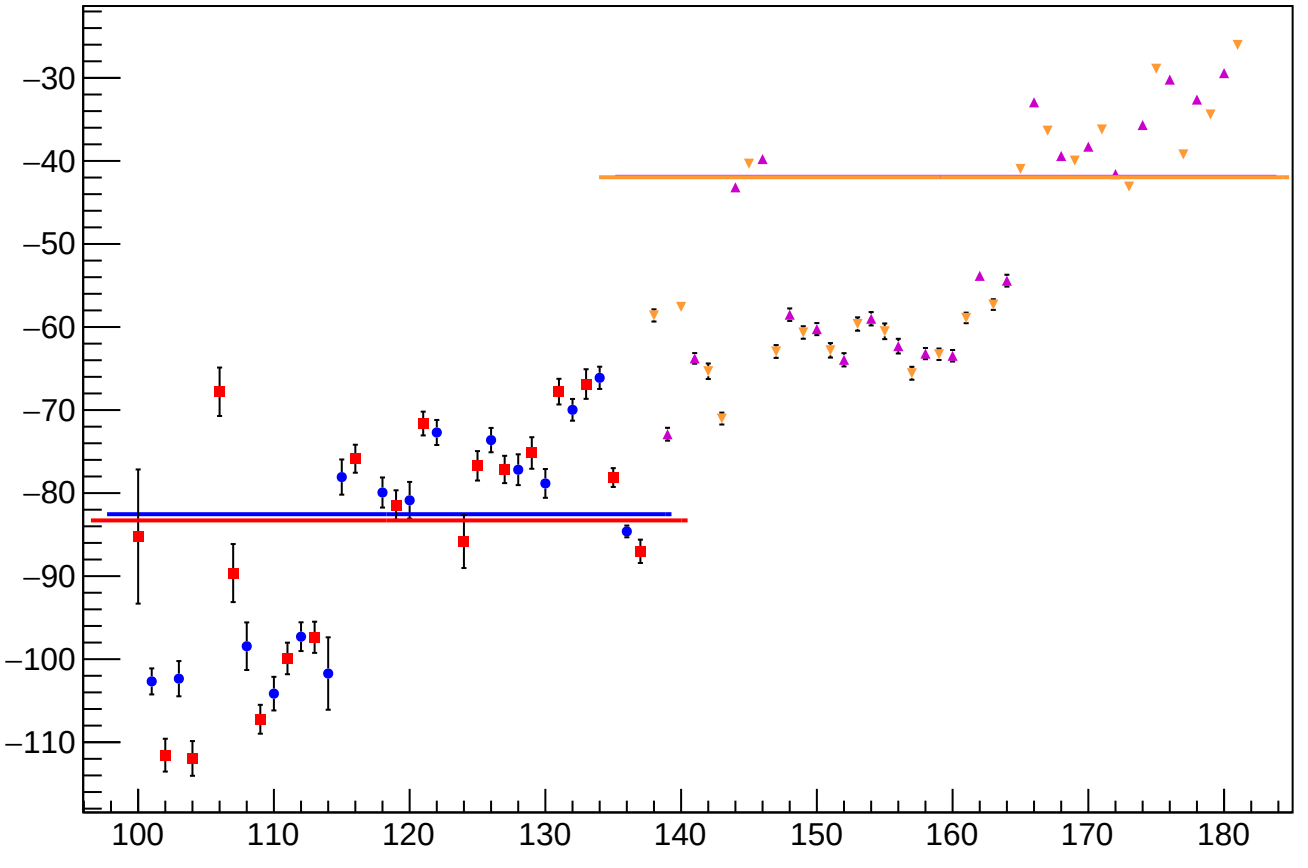
Left: 6.680+/-0.060 $\chi^2$/NDF: 3895.7/43

Right: 2.126+/-0.262 $\chi^2$/NDF: 2031.8/34

In: 6.138+/-0.082 $\chi^2$/NDF:2862.3/36

Out: 6.771+/-0.082 $\chi^2$/NDF:3322.8/41

All: 6.456+/-0.058 $\chi^2$/NDF: 6214.8/78




Right In: -82.542+/-0.384 $\chi^2$/NDF: 838.8/15

Left Out: -41.965+/-0.106 $\chi^2$/NDF:15091.8/22

Right Out: -83.290+/-0.414 $\chi^2$/NDF: 1092.6/18

Left In: -41.912+/-0.109 $\chi^2$/NDF:12342.9/20

Left: -41.939+/-0.076 $\chi^2$/NDF: 27434.9/43

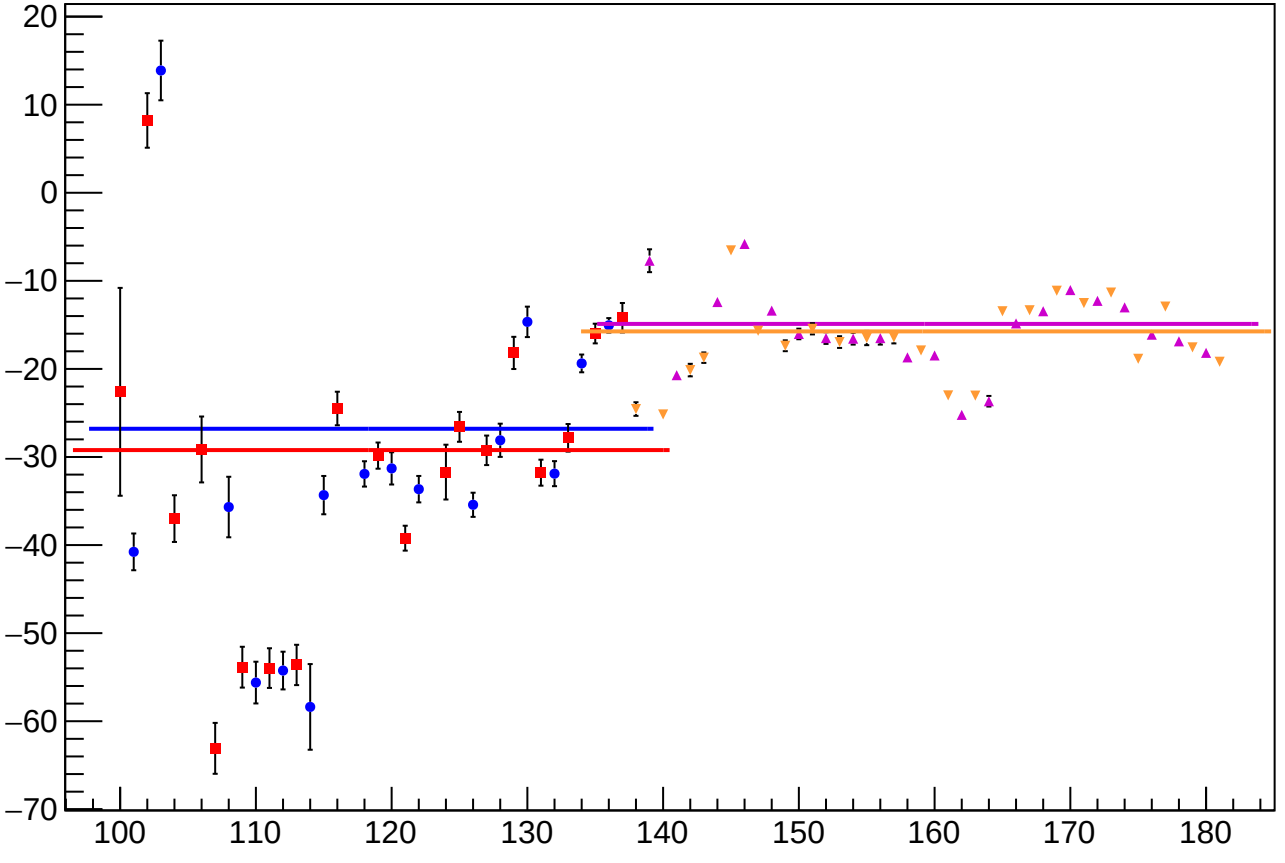
Right: -82.888+/-0.282 $\chi^2$/NDF: 1933.1/34

In: -44.960+/-0.105 $\chi^2$/NDF:23520.1/36

Out: -44.520+/-0.103 $\chi^2$/NDF:25520.5/41

All: -44.736+/-0.074 $\chi^2$/NDF: 49049.5/78

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -26.796+/-0.396 $\chi^2$/NDF: 963.5/15

Left Out: -15.740+/-0.093 $\chi^2$/NDF:2350.9/22

Right Out: -29.216+/-0.431 $\chi^2$/NDF: 960.7/18

Left In: -14.890+/-0.095 $\chi^2$/NDF:2121.3/20

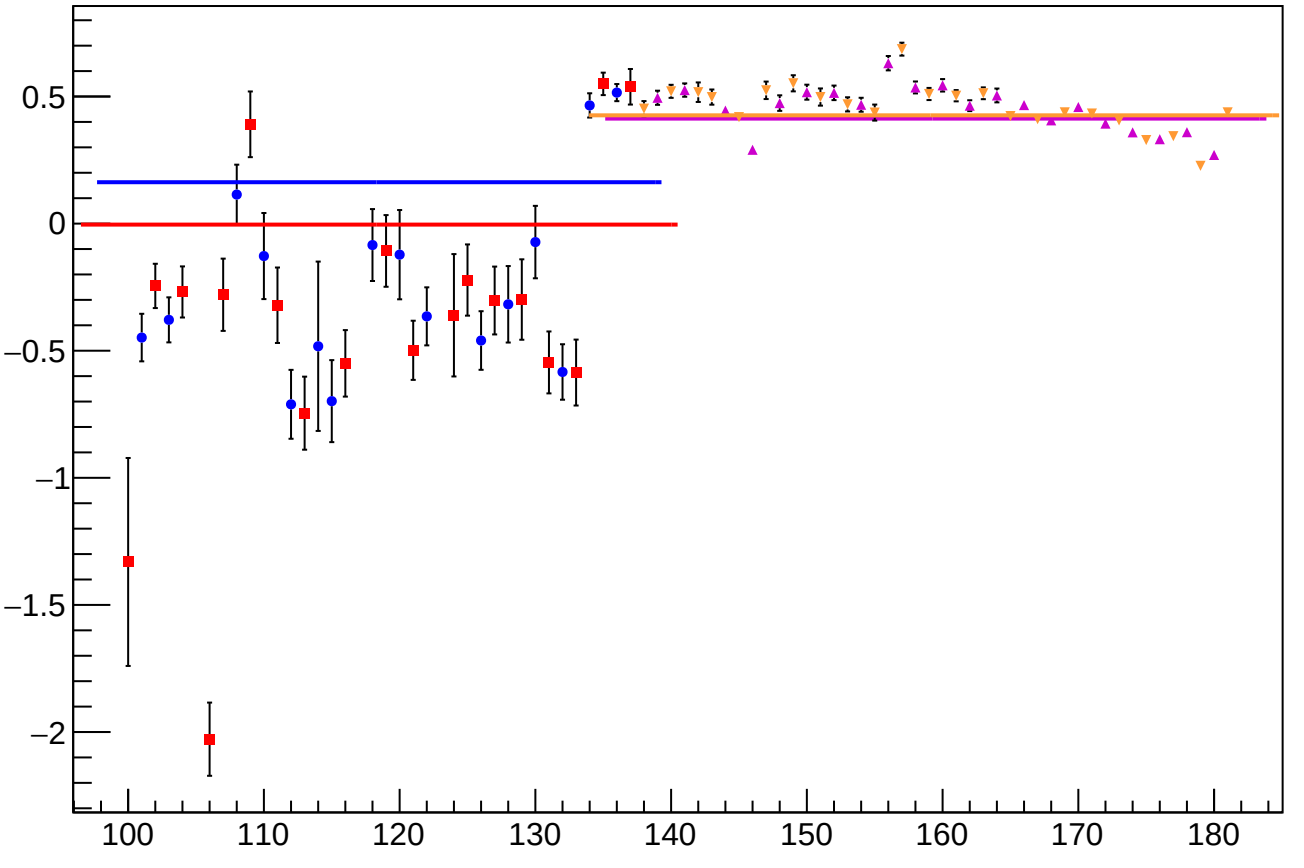
Left: -15.321+/-0.067 $\chi^2$/NDF: 4513.0/43

Right: -27.902+/-0.291 $\chi^2$/NDF: 1941.2/34

In: -15.536+/-0.092 $\chi^2$/NDF:3941.5/36

Out: -16.345+/-0.091 $\chi^2$/NDF:4244.8/41

All: -15.944+/-0.065 $\chi^2$/NDF: 8225.2/78




Right In: 0.163+/-0.021 $\chi^2$/NDF: 422.6/15

Left Out: 0.426+/-0.004 $\chi^2$/NDF:406.5/22

Right Out: -0.004+/-0.024 $\chi^2$/NDF: 573.3/18

Left In: 0.413+/-0.004 $\chi^2$/NDF:412.6/20

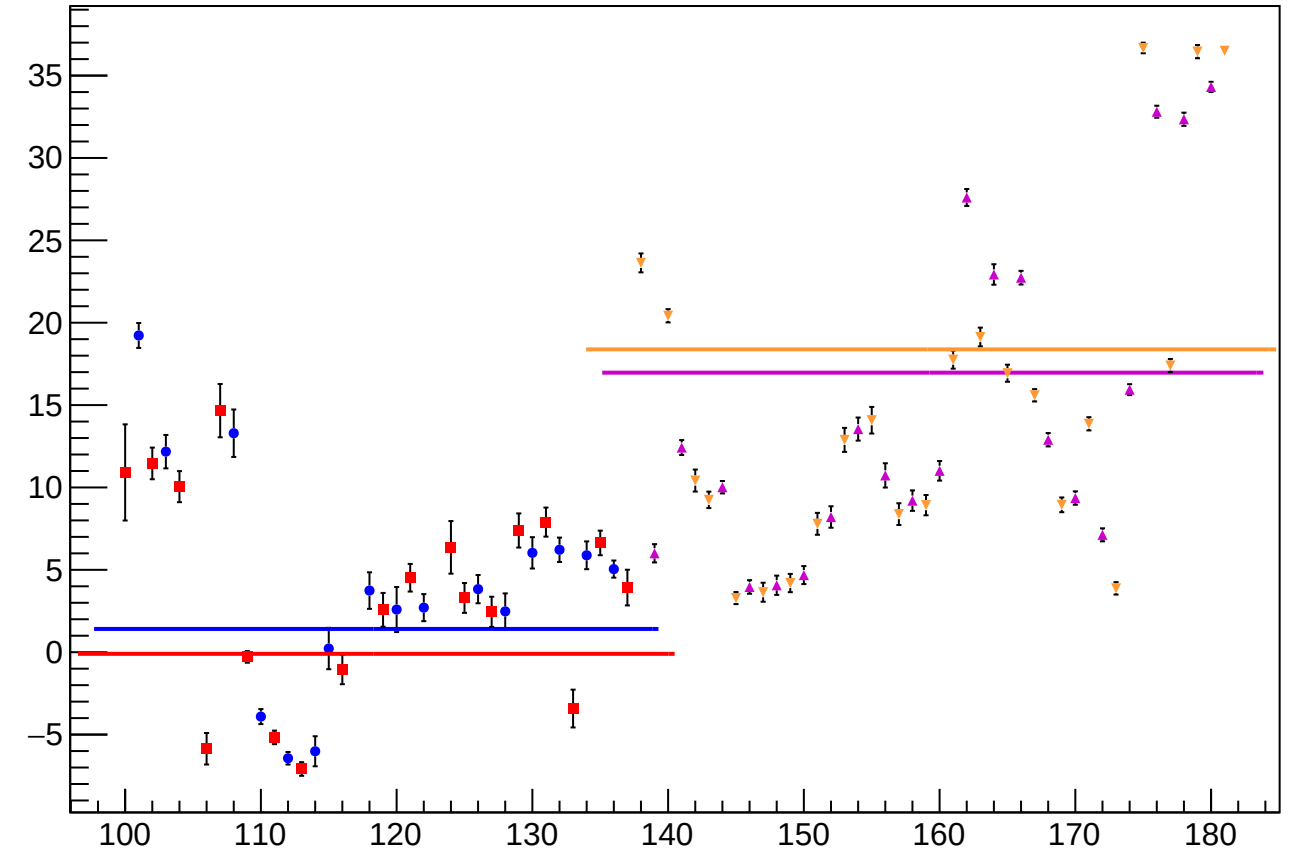
Left: 0.420+/-0.003 $\chi^2$/NDF: 823.8/43

Right: 0.090+/-0.016 $\chi^2$/NDF: 1022.3/34

In: 0.404+/-0.004 $\chi^2$/NDF:966.7/36

Out: 0.414+/-0.004 $\chi^2$/NDF:1281.1/41

All: 0.409+/-0.003 $\chi^2$/NDF: 2250.8/78




Right In: 1.412+/-0.183 $\chi^2$/NDF: 1522.1/15

Left Out: 18.382+/-0.095 $\chi^2$/NDF:16089.0/22

Right Out: -0.098+/-0.167 $\chi^2$/NDF: 1147.2/18

Left In: 16.968+/-0.099 $\chi^2$/NDF:11584.8/20

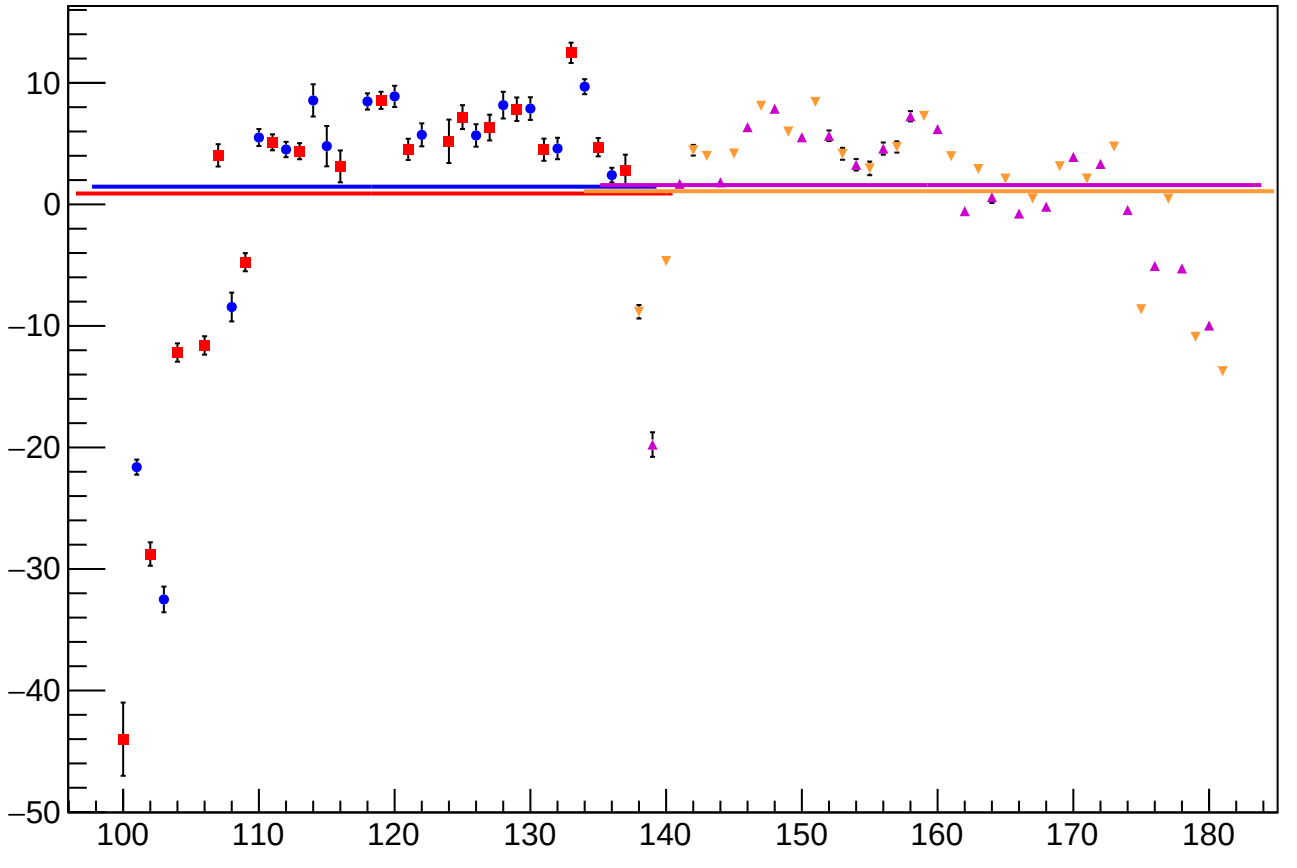
Left: 17.701+/-0.068 $\chi^2$/NDF: 27780.2/43

Right: 0.589+/-0.124 $\chi^2$/NDF: 2706.4/34

In: 13.467+/-0.087 $\chi^2$/NDF:18700.9/36

Out: 13.871+/-0.083 $\chi^2$/NDF:26448.7/41

All: 13.679+/-0.060 $\chi^2$/NDF: 45160.9/78




Right In: 1.459+/-0.203 $\chi^2$/NDF: 3080.3/15

Left Out: 1.087+/-0.073 $\chi^2$/NDF:7334.6/22

Right Out: 0.896+/-0.202 $\chi^2$/NDF: 2377.1/18

Left In: 1.590+/-0.075 $\chi^2$/NDF:4463.4/20

Left: 1.332+/-0.052 $\chi^2$/NDF: 11821.2/43

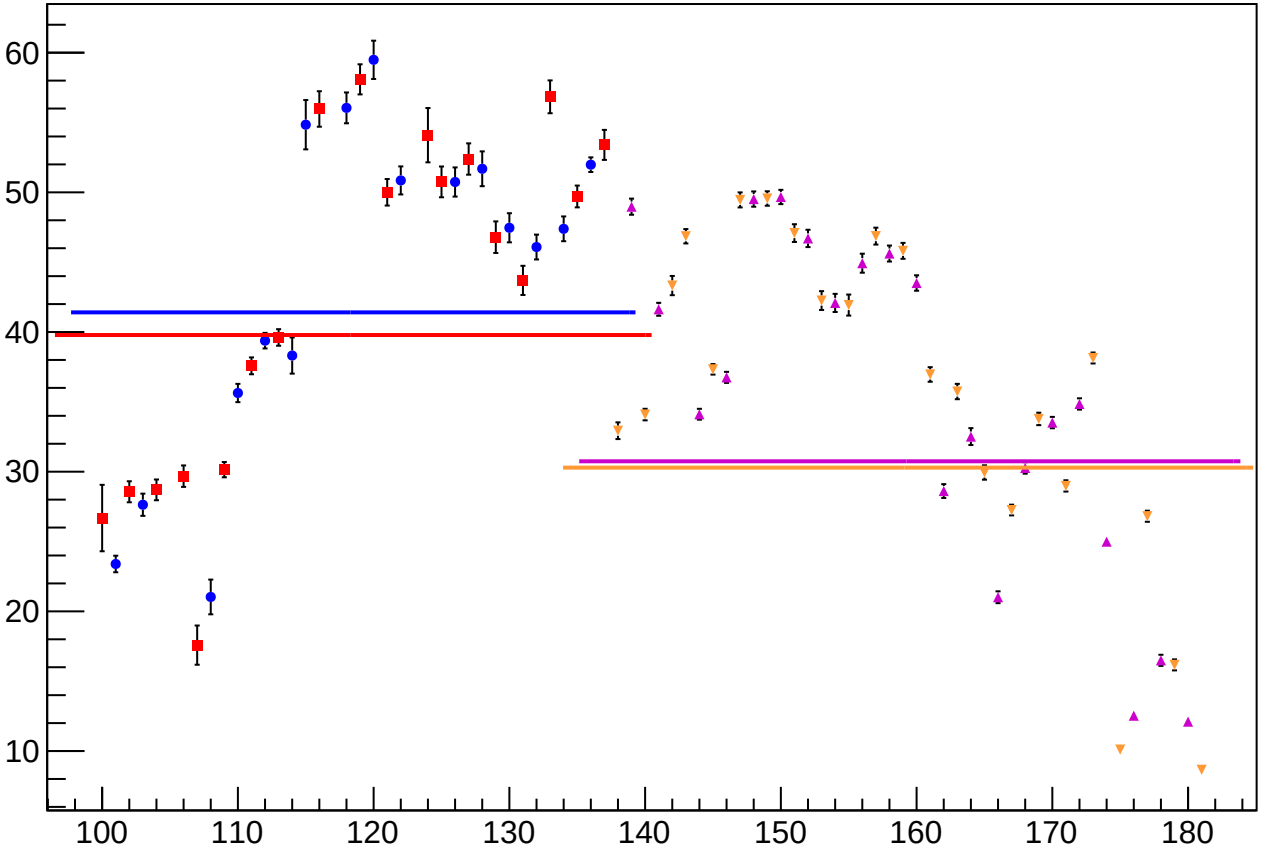
Right: 1.176+/-0.143 $\chi^2$/NDF: 5461.2/34

In: 1.574+/-0.070 $\chi^2$/NDF:7544.1/36

Out: 1.065+/-0.069 $\chi^2$/NDF:9712.5/41

All: 1.314+/-0.049 $\chi^2$/NDF: 17283.4/78

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 41.407+/-0.211 $\chi^2$/NDF: 2746.0/15

Left Out: 30.291+/-0.095 $\chi^2$/NDF:19037.3/22

Right Out: 39.784+/-0.203 $\chi^2$/NDF: 2653.8/18

Left In: 30.745+/-0.098 $\chi^2$/NDF:15421.8/20

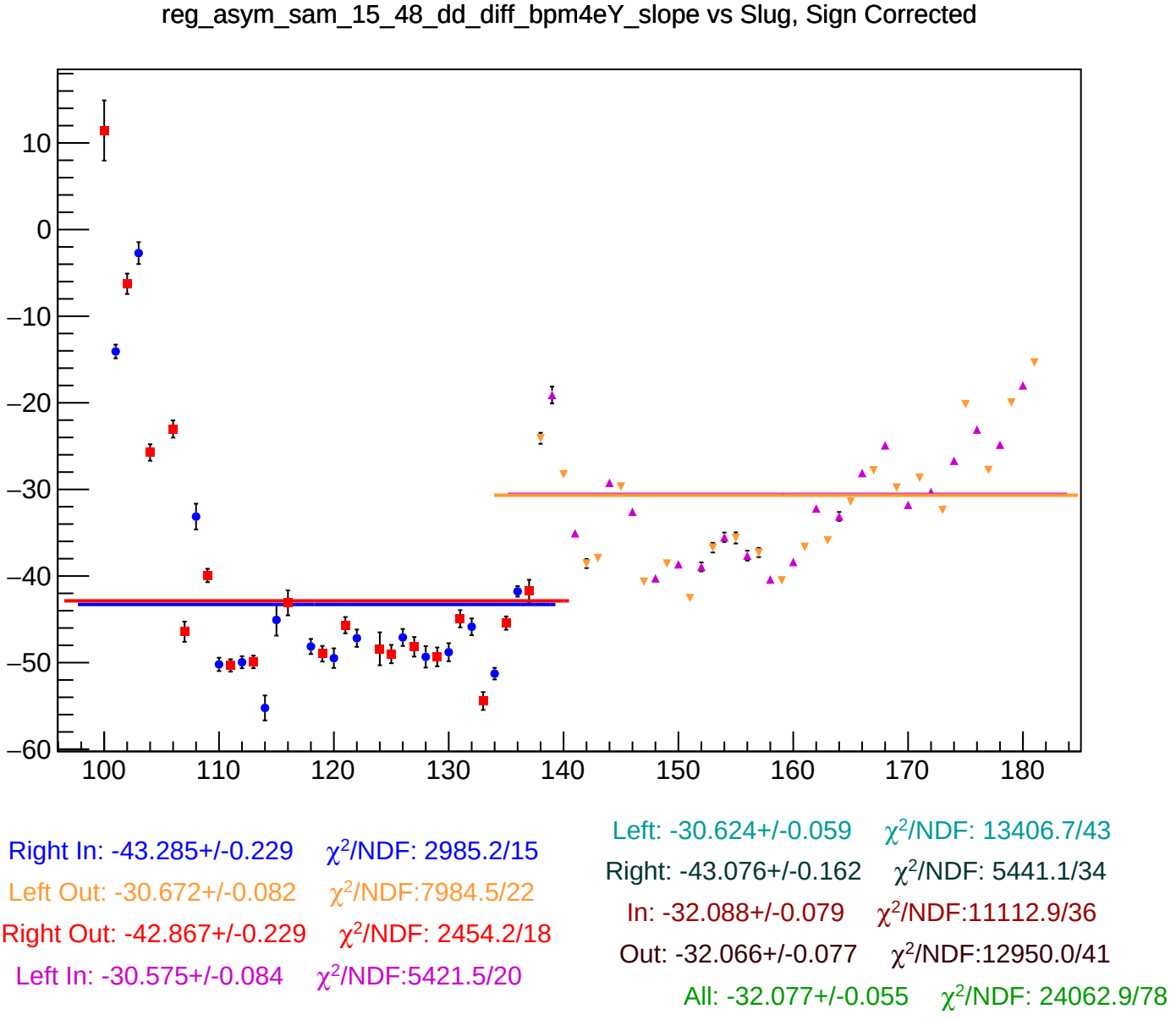
Left: 30.511+/-0.068 $\chi^2$/NDF: 34470.1/43

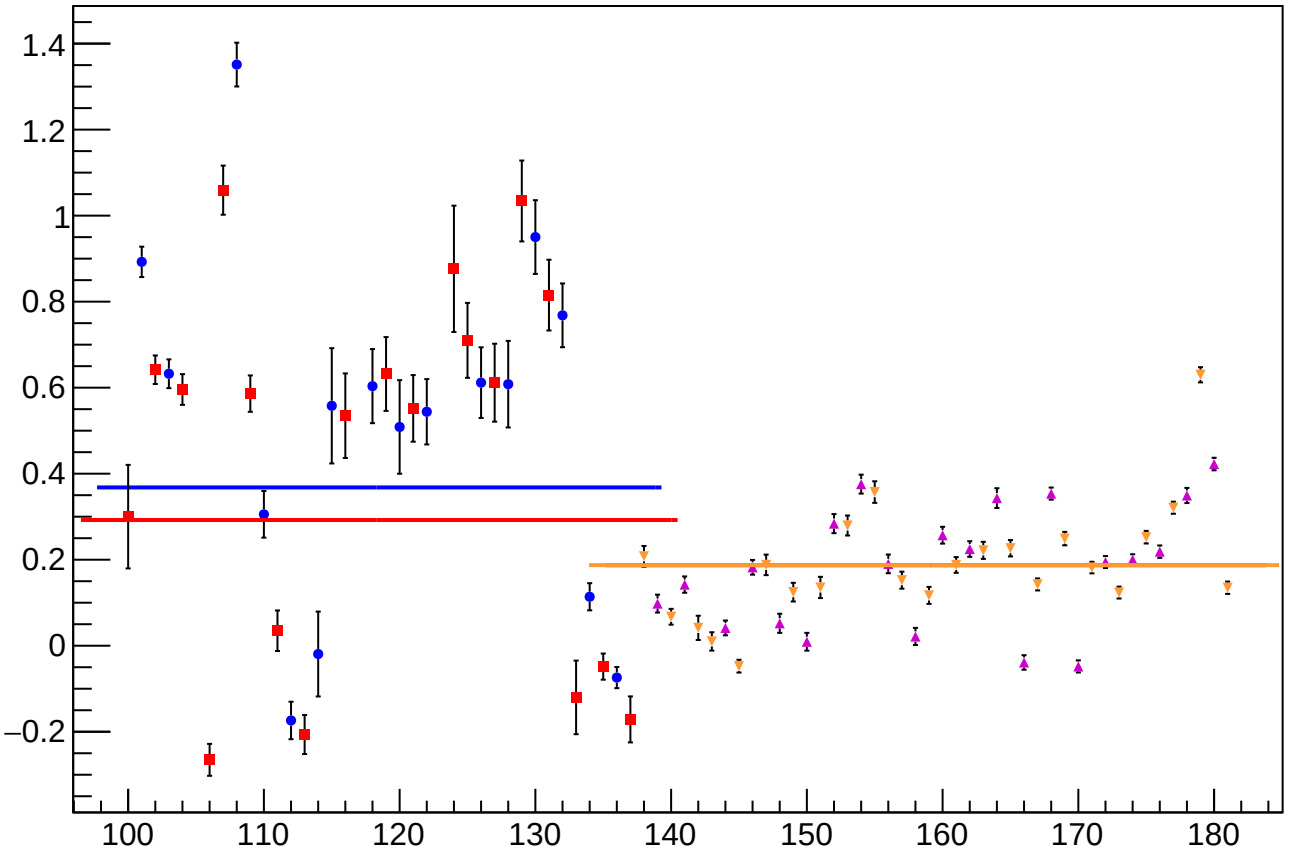
Right: 40.565+/-0.146 $\chi^2$/NDF: 5430.6/34

In: 32.646+/-0.089 $\chi^2$/NDF:20273.3/36

Out: 31.999+/-0.086 $\chi^2$/NDF:23486.7/41

All: 32.311+/-0.062 $\chi^2$/NDF: 43787.4/78


reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
10
0
−10
−20
−30
−40
−50
−60
100
110
120
130
140
150
160
170
180
Right In: -43.285+/-0.229 χ²/NDF: 2985.2/15
Left Out: -30.672+/-0.082 χ²/NDF:7984.5/22
Right Out: -42.867+/-0.229 χ²/NDF: 2454.2/18
Left In: -30.575+/-0.084 χ²/NDF:5421.5/20
Left: -30.624+/-0.059 χ²/NDF: 13406.7/43
Right: -43.076+/-0.162 χ²/NDF: 5441.1/34
In: -32.088+/-0.079 χ²/NDF:11112.9/36
Out: -32.066+/-0.077 χ²/NDF:12950.0/41
All: -32.077+/-0.055 χ²/NDF: 24062.9/78




Right In: 0.368+/-0.012 $\chi^2$/NDF: 1320.9/15

Left Out: 0.187+/-0.004 $\chi^2$/NDF:1280.5/22

Right Out: 0.292+/-0.012 $\chi^2$/NDF: 1199.2/18

Left In: 0.187+/-0.004 $\chi^2$/NDF:1377.5/20

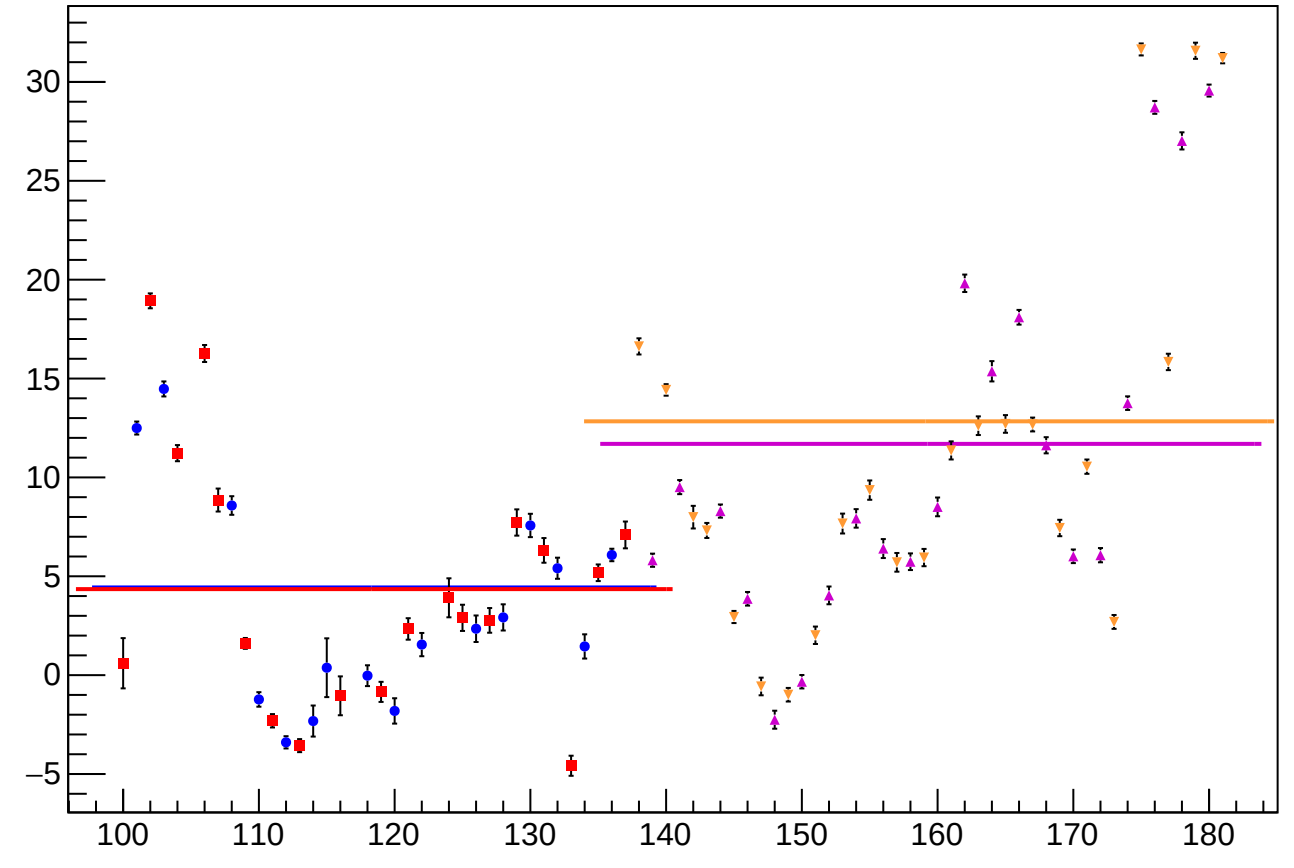
Left: 0.187+/-0.003 $\chi^2$/NDF: 2658.0/43

Right: 0.330+/-0.009 $\chi^2$/NDF: 2539.6/34

In: 0.203+/-0.004 $\chi^2$/NDF:2898.9/36

Out: 0.196+/-0.004 $\chi^2$/NDF:2548.4/41

All: 0.200+/-0.003 $\chi^2$/NDF: 5448.9/78




Right In: 4.435+/-0.117 $\chi^2$/NDF: 2622.0/15

Left Out: 12.836+/-0.080 $\chi^2$/NDF:17133.9/22

Right Out: 4.351+/-0.109 $\chi^2$/NDF: 4205.3/18

Left In: 11.696+/-0.083 $\chi^2$/NDF:12571.6/20

Left: 12.289+/-0.058 $\chi^2$/NDF: 29802.9/43

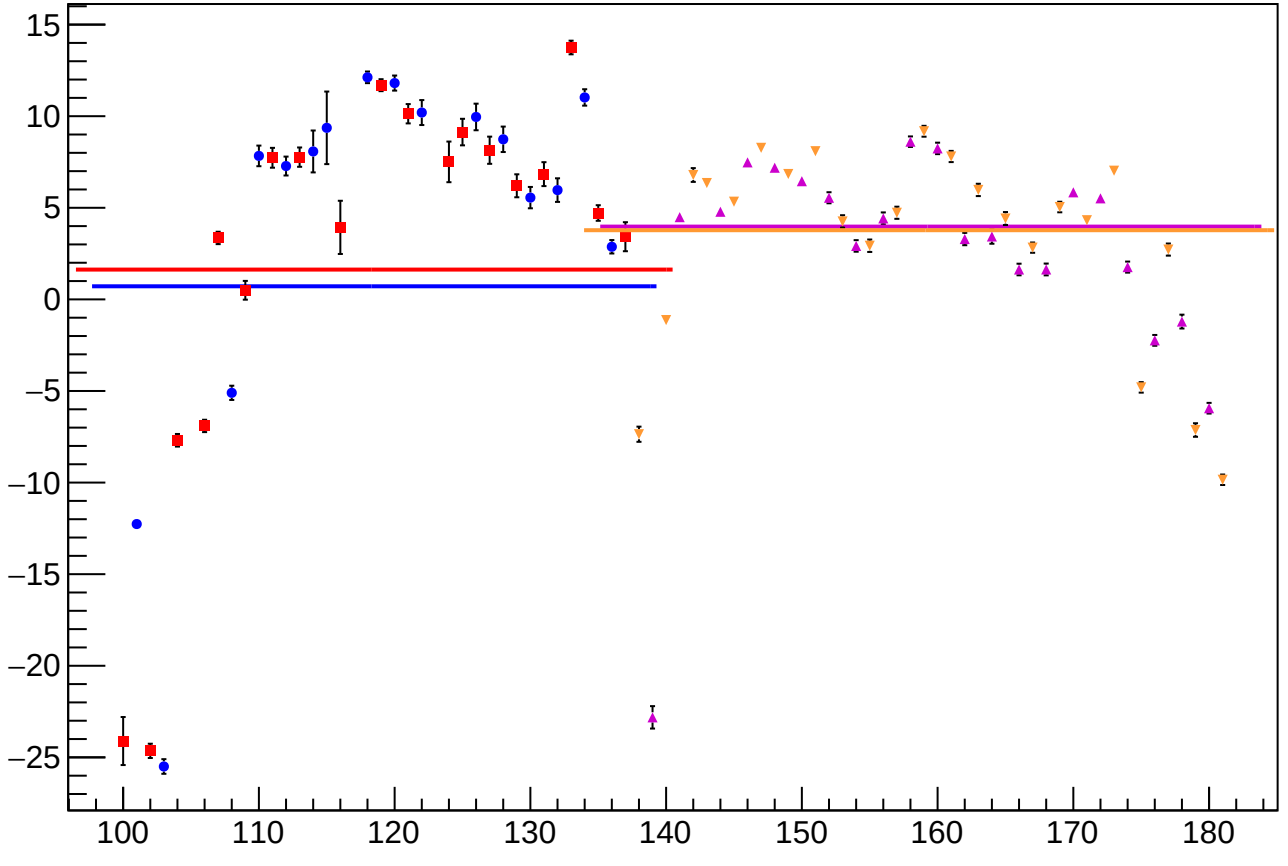
Right: 4.390+/-0.080 $\chi^2$/NDF: 6827.6/34

In: 9.251+/-0.068 $\chi^2$/NDF:17750.0/36

Out: 9.865+/-0.065 $\chi^2$/NDF:25270.6/41

All: 9.574+/-0.047 $\chi^2$/NDF: 43063.6/78

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.715+/-0.116 $\chi^2$/NDF: 10454.0/15

Left Out: 3.776+/-0.060 $\chi^2$/NDF:7069.1/22

Right Out: 1.627+/-0.111 $\chi^2$/NDF: 9255.5/18

Left In: 3.973+/-0.063 $\chi^2$/NDF:5073.1/20

Left: 3.870+/-0.043 $\chi^2$/NDF: 12147.4/43

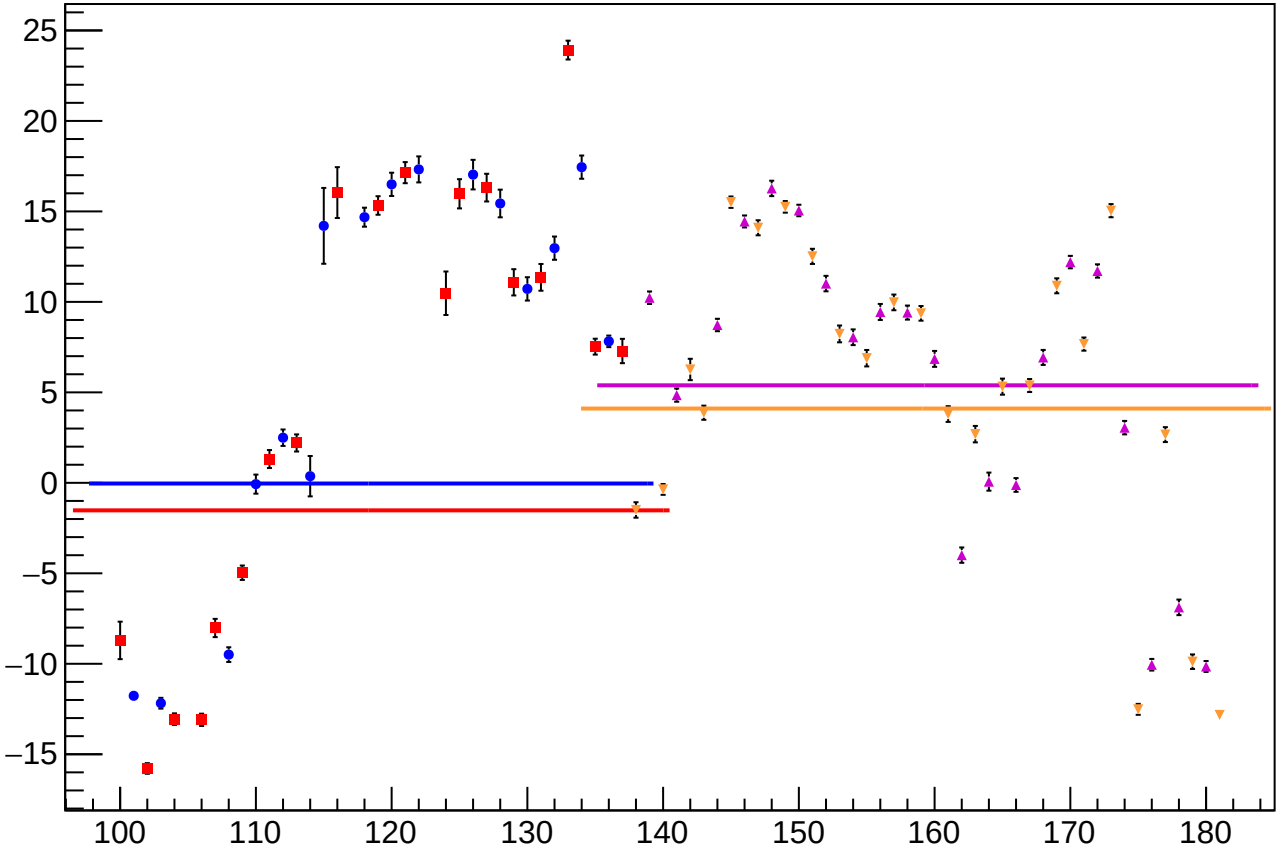
Right: 1.190+/-0.080 $\chi^2$/NDF: 19741.8/34

In: 3.235+/-0.055 $\chi^2$/NDF:16138.2/36

Out: 3.289+/-0.053 $\chi^2$/NDF:16614.5/41

All: 3.263+/-0.038 $\chi^2$/NDF: 32753.1/78

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -0.038+/-0.119 $\chi^2$/NDF: 9274.3/15

Left Out: 4.106+/-0.079 $\chi^2$/NDF:13761.0/22

Right Out: -1.521+/-0.115 $\chi^2$/NDF: 12130.2/18

Left In: 5.389+/-0.082 $\chi^2$/NDF:10357.2/20

Left: 4.726+/-0.057 $\chi^2$/NDF: 24244.2/43

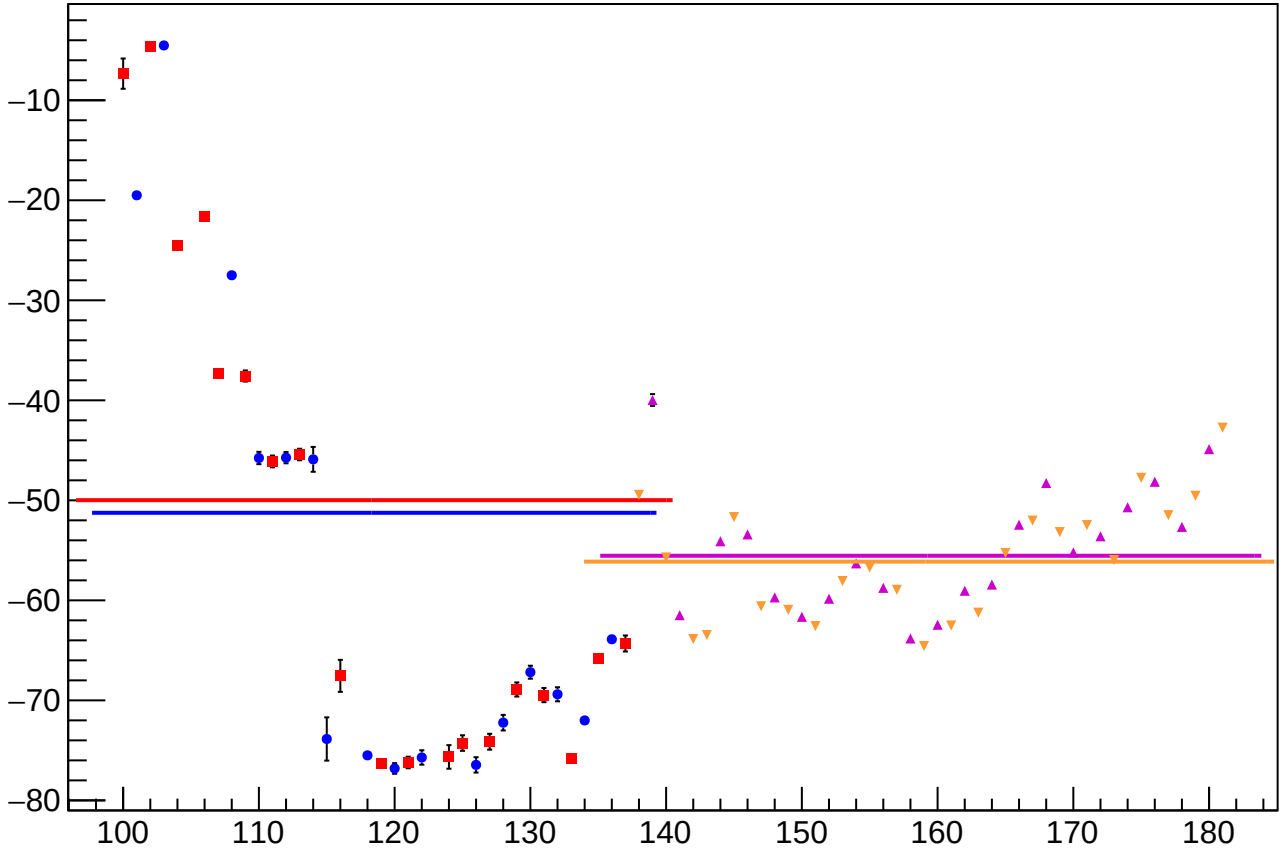
Right: -0.807+/-0.083 $\chi^2$/NDF: 21484.6/34

In: 3.642+/-0.068 $\chi^2$/NDF:21033.7/36

Out: 2.290+/-0.065 $\chi^2$/NDF:27510.4/41

All: 2.943+/-0.047 $\chi^2$/NDF: 48750.5/78

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -51.246+/-0.136 $\chi^2$/NDF: 33765.2/15

Left Out: -56.128+/-0.068 $\chi^2$/NDF:7224.3/22

Right Out: -49.983+/-0.131 $\chi^2$/NDF: 33892.5/18

Left In: -55.541+/-0.071 $\chi^2$/NDF:5952.0/20

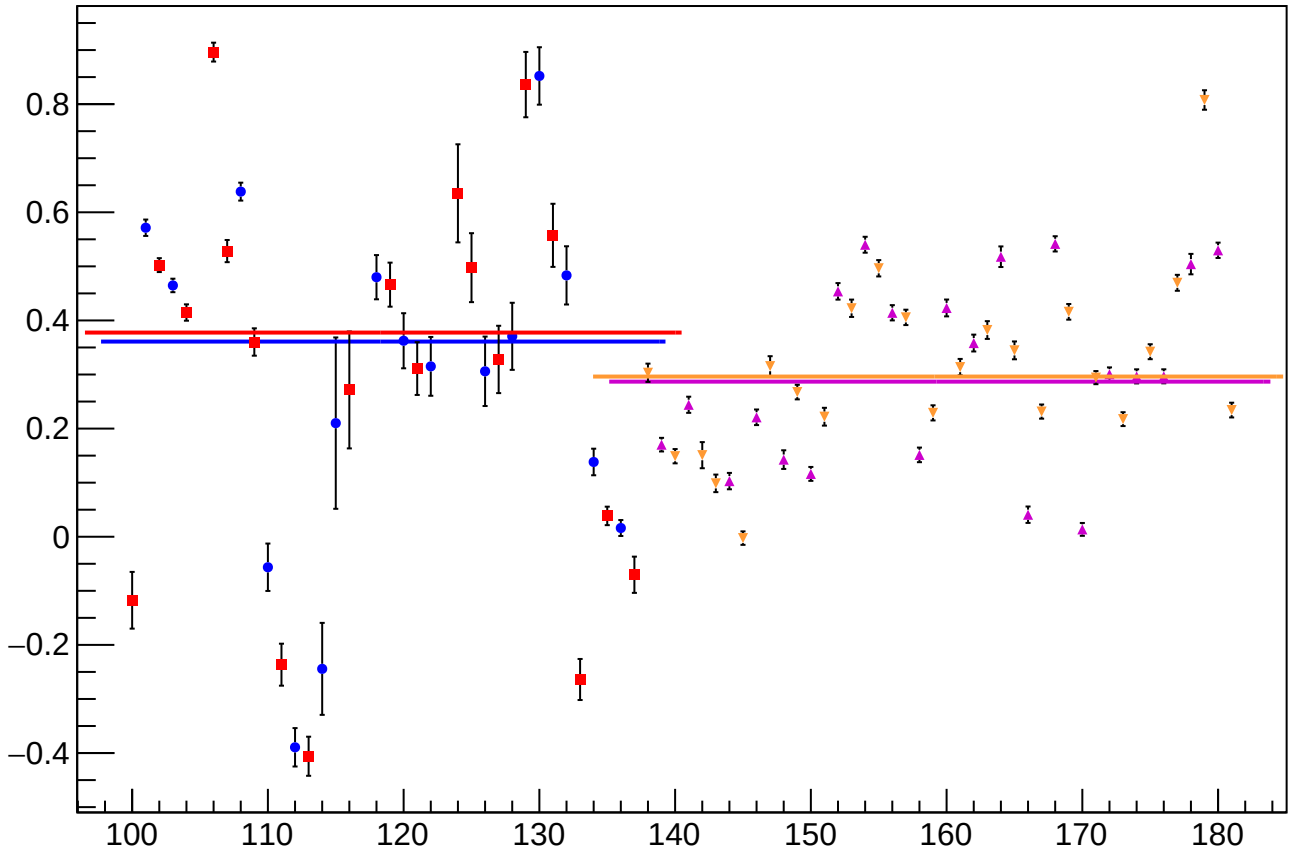
Left: -55.845+/-0.049 $\chi^2$/NDF: 13211.8/43

Right: -50.590+/-0.094 $\chi^2$/NDF: 67702.6/34

In: -54.621+/-0.063 $\chi^2$/NDF:40503.8/36

Out: -54.807+/-0.061 $\chi^2$/NDF:42852.5/41

All: -54.717+/-0.044 $\chi^2$/NDF: 83360.9/78




Right In: 0.361+/-0.006 $\chi^2$/NDF: 1860.0/15

Left Out: 0.296+/-0.003 $\chi^2$/NDF:2372.1/22

Right Out: 0.378+/-0.006 $\chi^2$/NDF: 2790.5/18

Left In: 0.287+/-0.003 $\chi^2$/NDF:2895.5/20

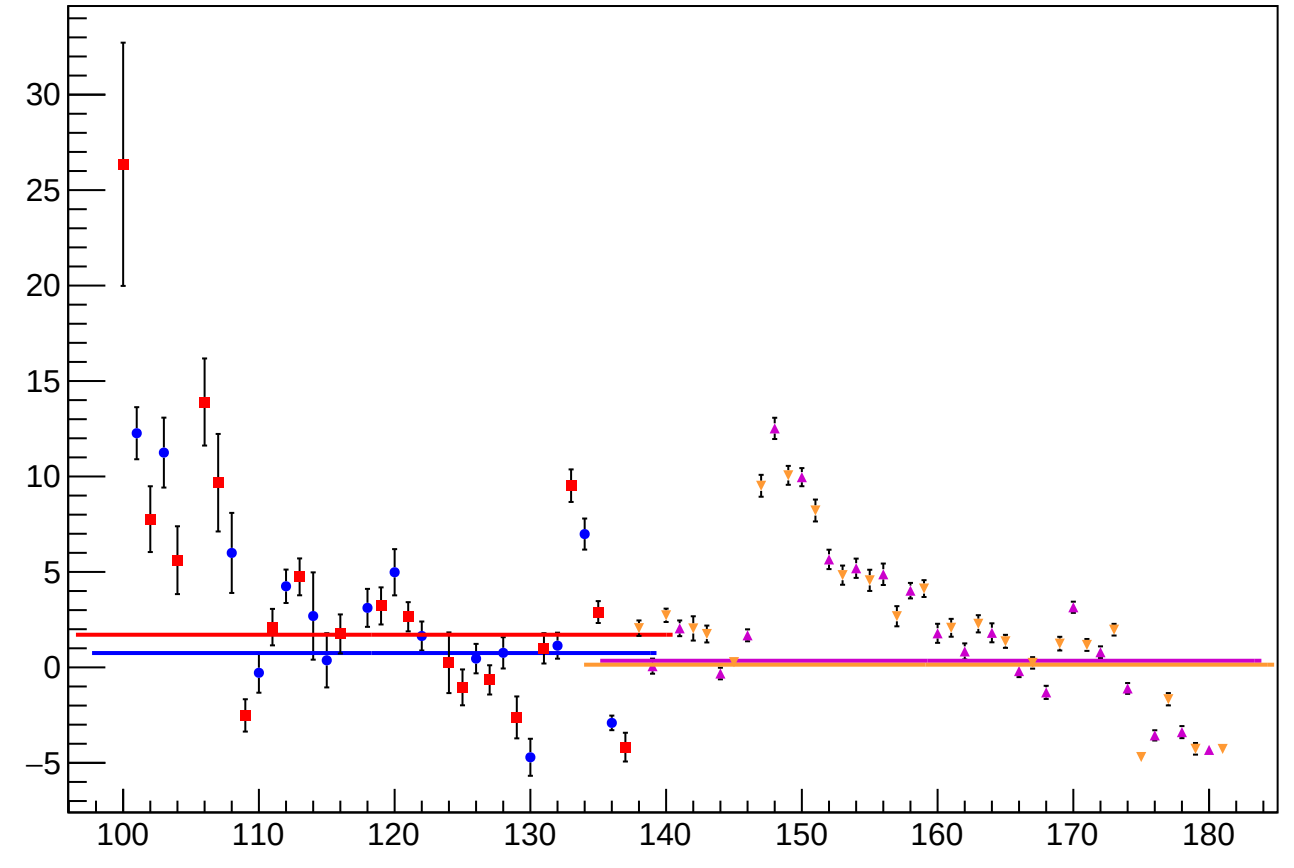
Left: 0.292+/-0.002 $\chi^2$/NDF: 5272.2/43

Right: 0.370+/-0.004 $\chi^2$/NDF: 4654.1/34

In: 0.301+/-0.003 $\chi^2$/NDF:4864.6/36

Out: 0.313+/-0.003 $\chi^2$/NDF:5303.7/41

All: 0.307+/-0.002 $\chi^2$/NDF: 10176.8/78




Right In: 0.752+/-0.212 $\chi^2$/NDF: 330.1/15

Left Out: 0.142+/-0.073 $\chi^2$/NDF:2521.6/22

Right Out: 1.710+/-0.223 $\chi^2$/NDF: 293.8/18

Left In: 0.347+/-0.077 $\chi^2$/NDF:2239.4/20

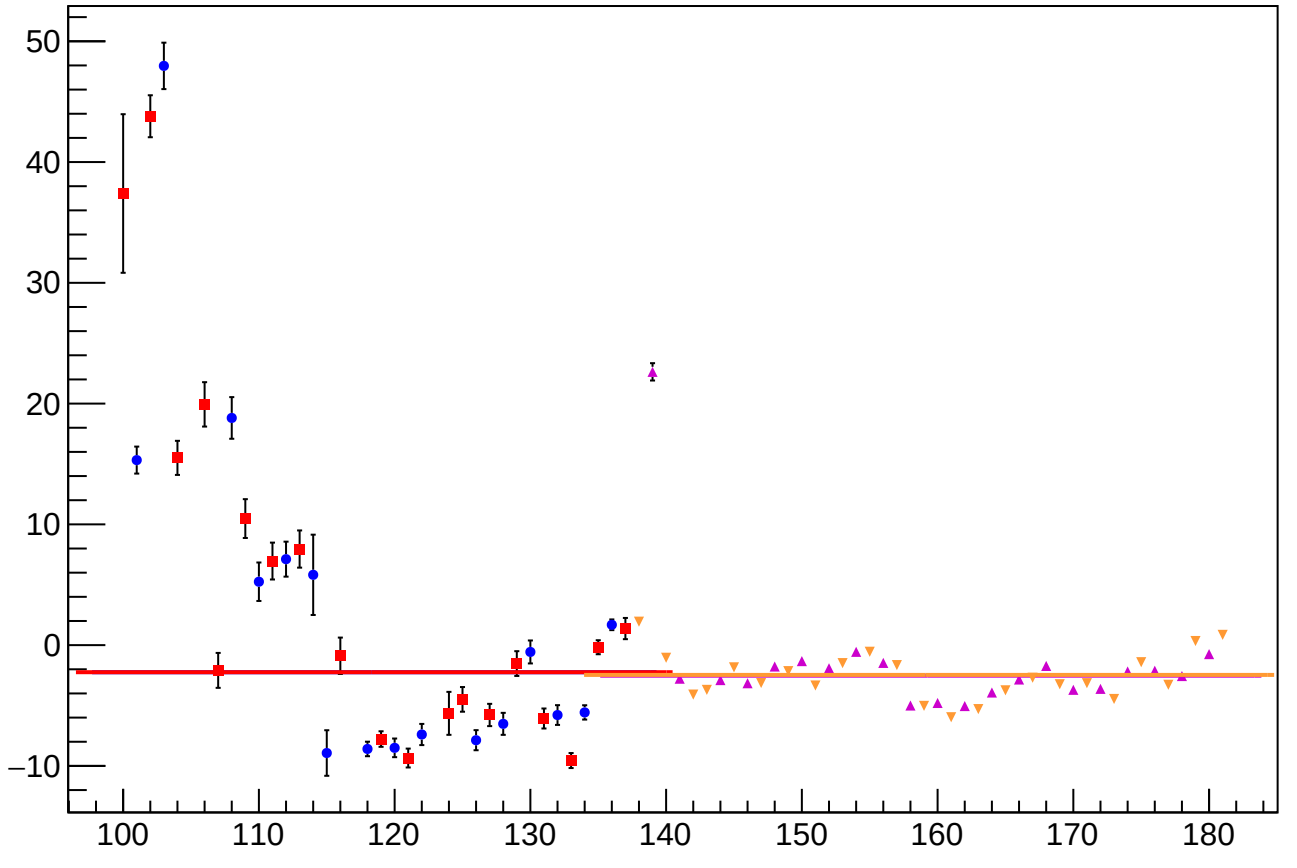
Left: 0.240+/-0.053 $\chi^2$/NDF: 4764.7/43

Right: 1.208+/-0.154 $\chi^2$/NDF: 633.6/34

In: 0.394+/-0.072 $\chi^2$/NDF:2572.7/36

Out: 0.295+/-0.070 $\chi^2$/NDF:2860.1/41

All: 0.343+/-0.050 $\chi^2$/NDF: 5433.8/78




Right In: -2.245+/-0.215 $\chi^2$/NDF: 1572.5/15

Left Out: -2.466+/-0.058 $\chi^2$/NDF:1047.1/22

Right Out: -2.242+/-0.229 $\chi^2$/NDF: 1555.6/18

Left In: -2.529+/-0.059 $\chi^2$/NDF:1649.9/20

Left: -2.497+/-0.041 $\chi^2$/NDF: 2697.7/43

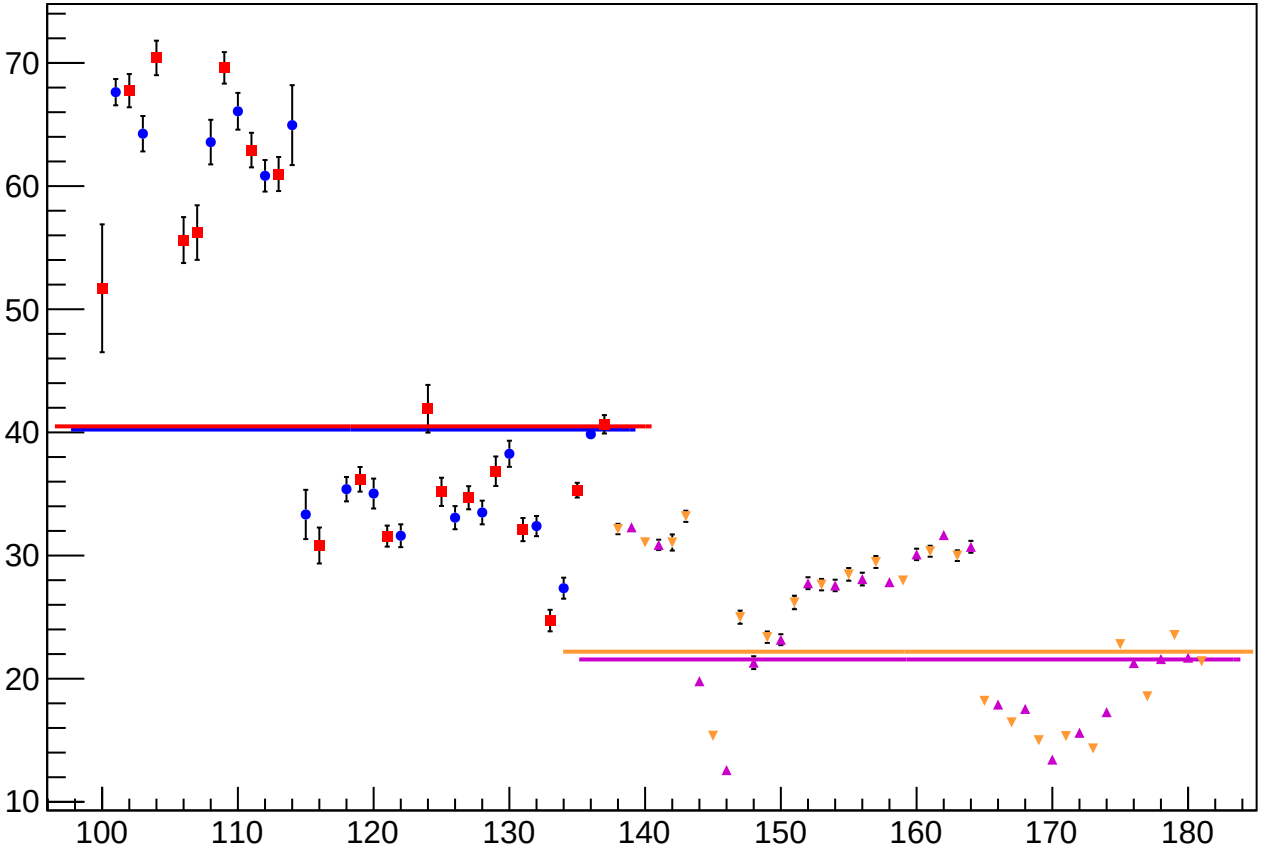
Right: -2.244+/-0.157 $\chi^2$/NDF: 3128.1/34

In: -2.509+/-0.057 $\chi^2$/NDF:3224.0/36

Out: -2.452+/-0.056 $\chi^2$/NDF:2603.7/41

All: -2.480+/-0.040 $\chi^2$/NDF: 5828.2/78

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 40.232+/-0.231 $\chi^2$/NDF: 2291.1/15

Left Out: 22.195+/-0.073 $\chi^2$/NDF:6168.0/22

Right Out: 40.490+/-0.250 $\chi^2$/NDF: 2698.0/18

Left In: 21.563+/-0.076 $\chi^2$/NDF:5775.5/20

Left: 21.892+/-0.053 $\chi^2$/NDF: 11979.2/43

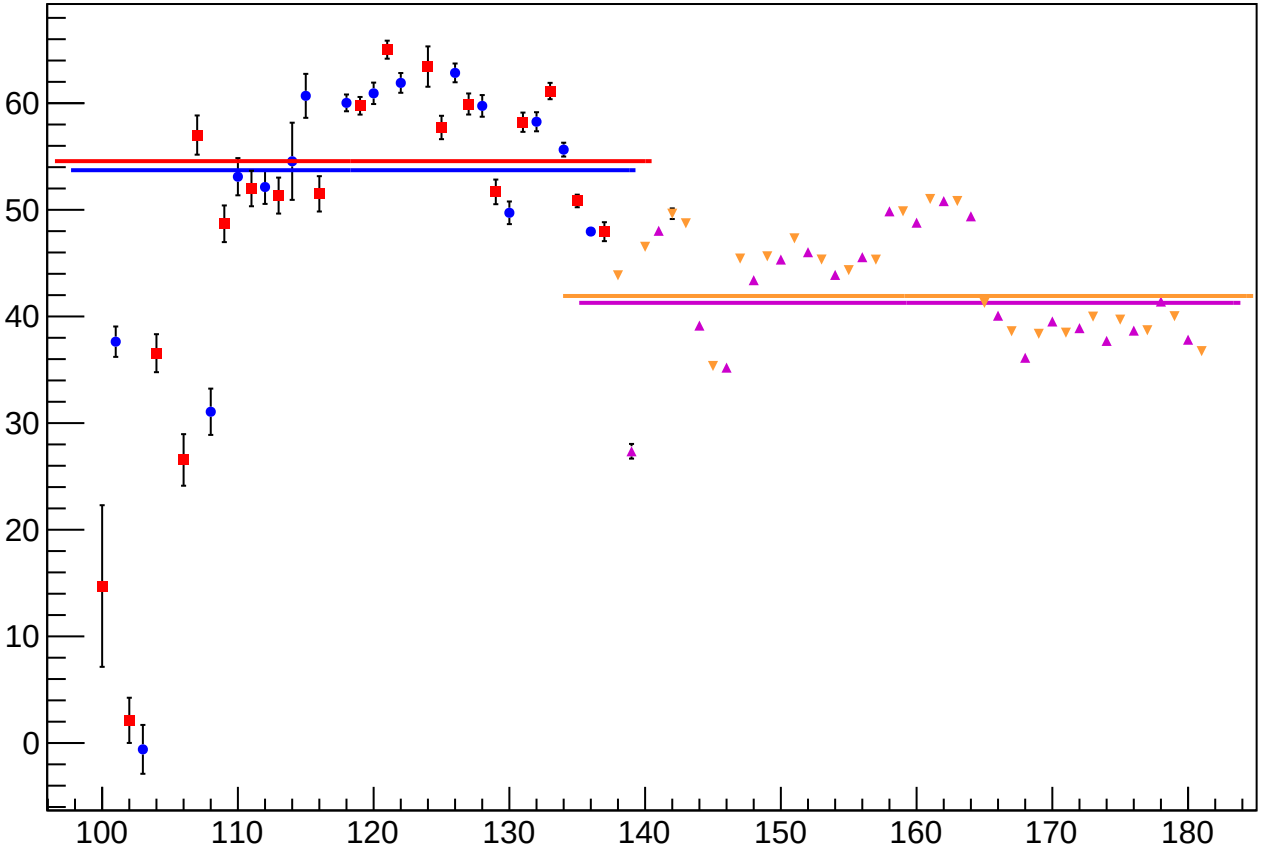
Right: 40.351+/-0.170 $\chi^2$/NDF: 4989.7/34

In: 23.395+/-0.073 $\chi^2$/NDF:13935.0/36

Out: 23.639+/-0.070 $\chi^2$/NDF:13781.5/41

All: 23.521+/-0.050 $\chi^2$/NDF: 27722.3/78

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 53.715+/-0.239 $\chi^2$/NDF: 1362.7/15

Left Out: 41.921+/-0.064 $\chi^2$/NDF:5521.9/22

Right Out: 54.565+/-0.256 $\chi^2$/NDF: 1342.6/18

Left In: 41.277+/-0.066 $\chi^2$/NDF:5400.5/20

Left: 41.608+/-0.046 $\chi^2$/NDF: 10970.9/43

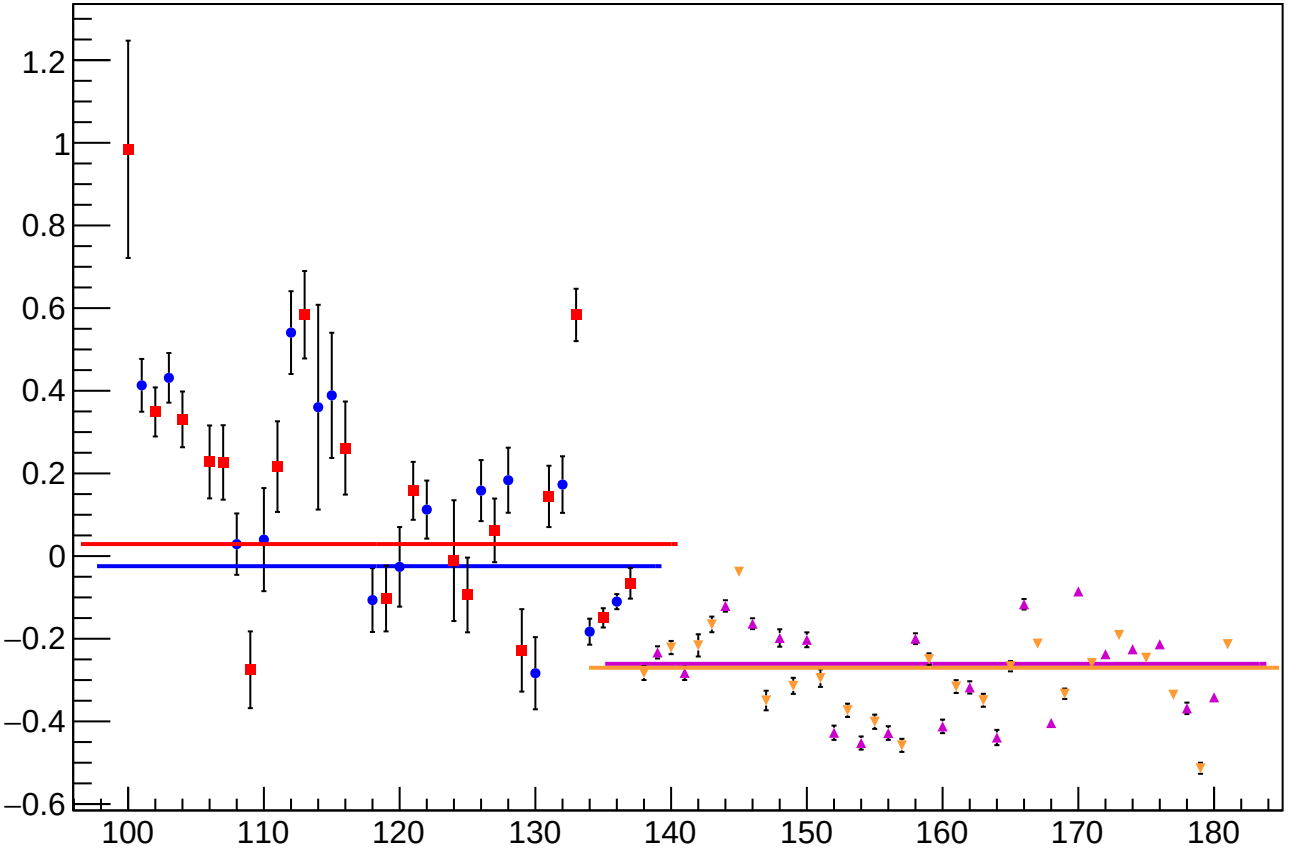
Right: 54.111+/-0.175 $\chi^2$/NDF: 2711.2/34

In: 42.164+/-0.064 $\chi^2$/NDF:9278.2/36

Out: 42.673+/-0.062 $\chi^2$/NDF:9156.4/41

All: 42.424+/-0.045 $\chi^2$/NDF: 18467.1/78

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.024+/-0.013 $\chi^2$/NDF: 229.7/15

Left Out: -0.270+/-0.003 $\chi^2$/NDF:1308.4/22

Right Out: 0.029+/-0.014 $\chi^2$/NDF: 276.4/18

Left In: -0.261+/-0.003 $\chi^2$/NDF:1466.9/20

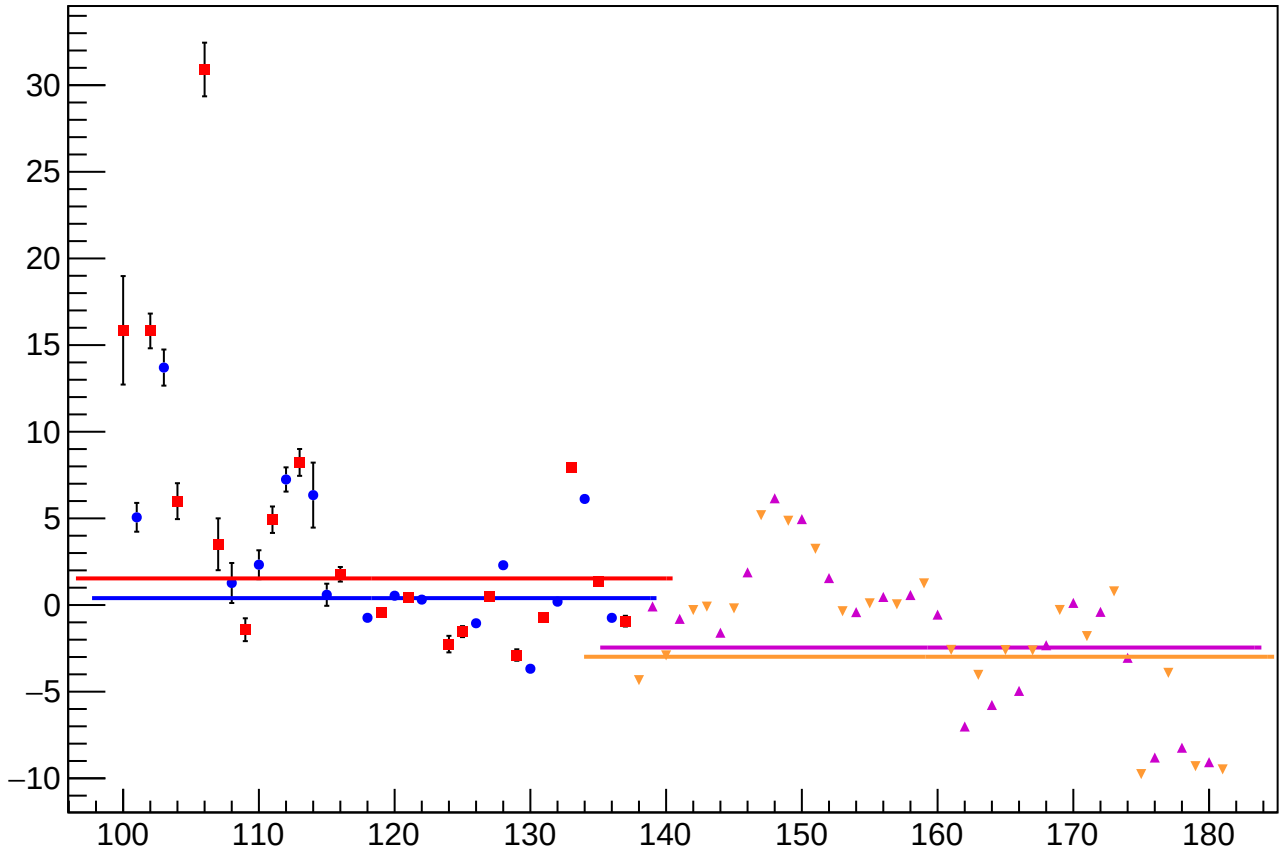
Left: -0.266+/-0.002 $\chi^2$/NDF: 2780.6/43

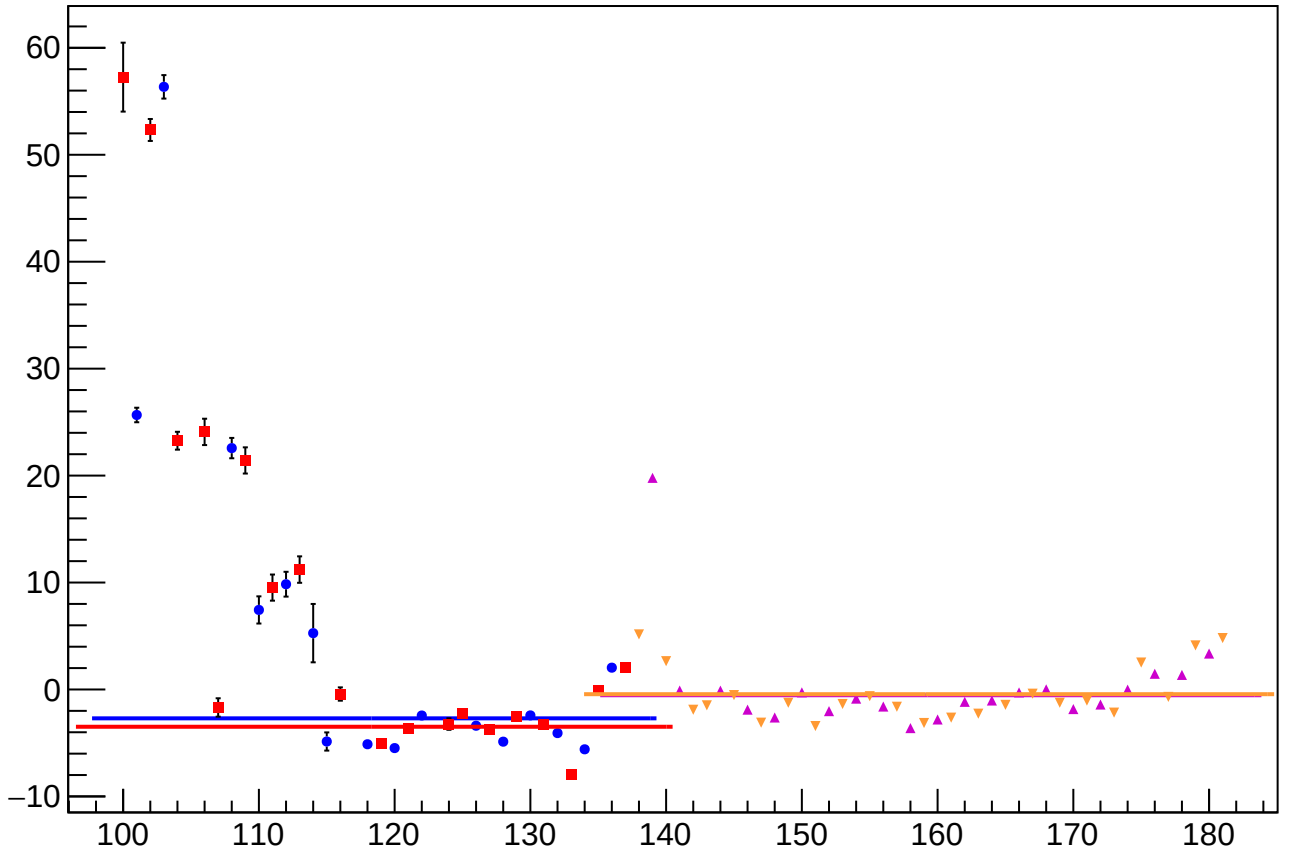
Right: -0.001+/-0.010 $\chi^2$/NDF: 513.9/34

In: -0.249+/-0.003 $\chi^2$/NDF:2020.2/36

Out: -0.259+/-0.003 $\chi^2$/NDF:2008.8/41

All: -0.254+/-0.002 $\chi^2$/NDF: 4034.7/78


reg_asym_sam_37_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected
30
25
20
15
10
5
0
−5
−10
100
110
120
130
140
150
160
170
180
Right In: 0.398+/-0.077 χ²/NDF: 1097.4/15
Left Out: -2.985+/-0.029 χ²/NDF:22408.5/22
Right Out: 1.536+/-0.078 χ²/NDF: 2411.2/18
Left In: -2.453+/-0.030 χ²/NDF:19127.5/20
Left: -2.728+/-0.021 χ²/NDF: 41697.2/43
Right: 0.959+/-0.055 χ²/NDF: 3615.8/34
In: -2.075+/-0.028 χ²/NDF:21412.3/36
Out: -2.434+/-0.027 χ²/NDF:27756.4/41
All: -2.260+/-0.020 χ²/NDF: 49252.8/78




Right In: -2.699+/-0.071 $\chi^2$/NDF: 7103.8/15

Left Out: -0.441+/-0.023 $\chi^2$/NDF:11005.2/22

Right Out: -3.486+/-0.071 $\chi^2$/NDF: 7159.9/18

Left In: -0.538+/-0.023 $\chi^2$/NDF:11093.3/20

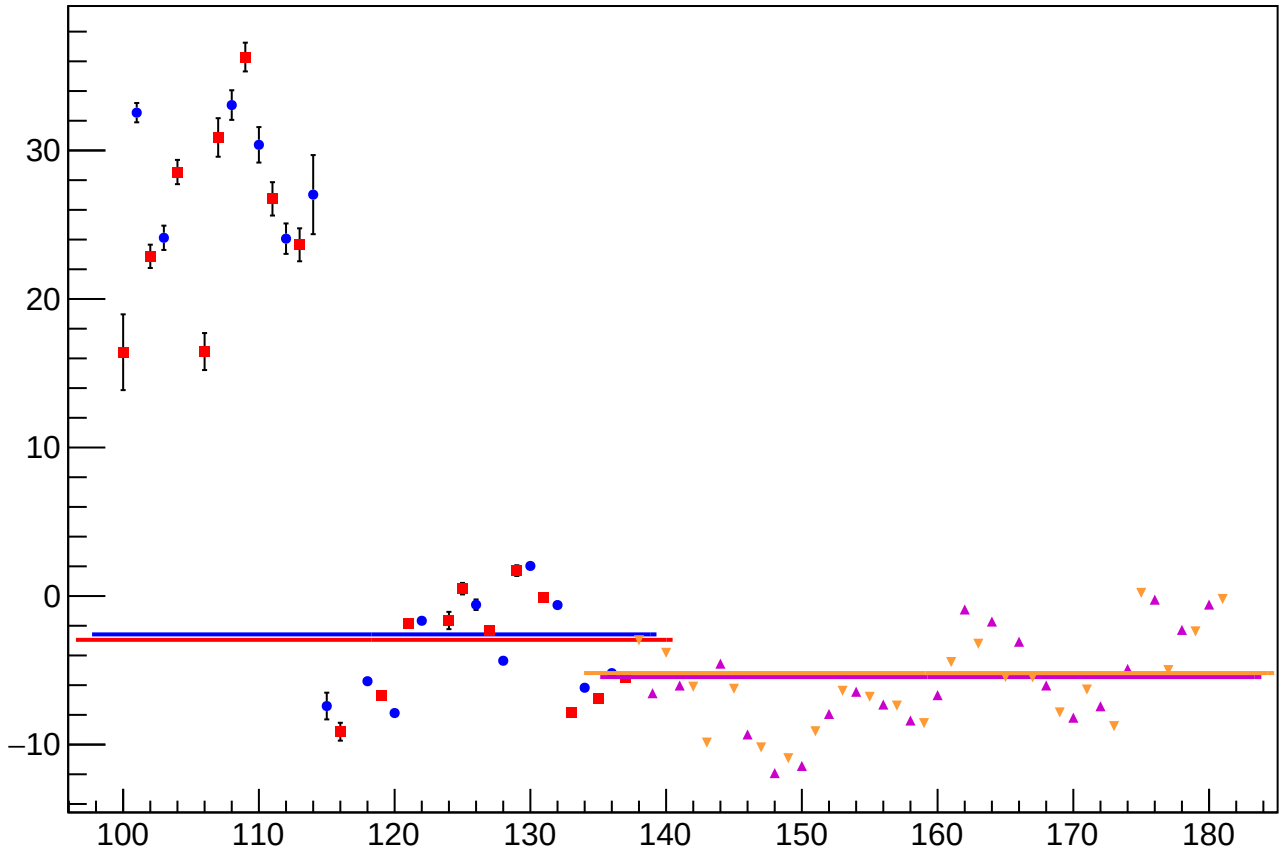
Left: -0.489+/-0.016 $\chi^2$/NDF: 22107.7/43

Right: -3.091+/-0.050 $\chi^2$/NDF: 14325.4/34

In: -0.746+/-0.022 $\chi^2$/NDF:19040.7/36

Out: -0.720+/-0.021 $\chi^2$/NDF:19842.1/41

All: -0.733+/-0.015 $\chi^2$/NDF: 38883.5/78




Right In: -2.582+/-0.083 $\chi^2$/NDF: 8159.7/15

Left Out: -5.185+/-0.029 $\chi^2$/NDF:12786.0/22

Right Out: -2.948+/-0.085 $\chi^2$/NDF: 8196.4/18

Left In: -5.456+/-0.030 $\chi^2$/NDF:12649.6/20

Left: -5.316+/-0.021 $\chi^2$/NDF: 25477.8/43

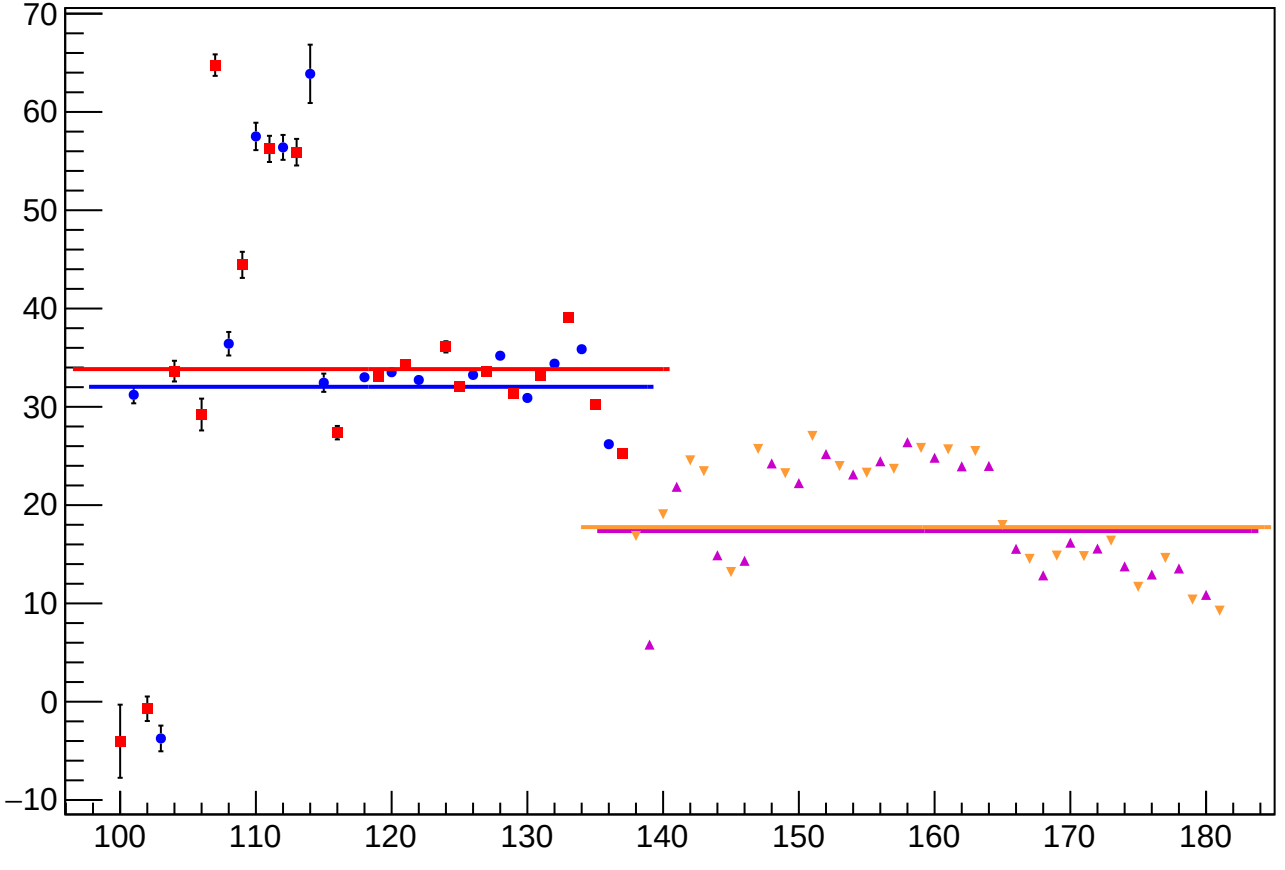
Right: -2.761+/-0.059 $\chi^2$/NDF: 16365.7/34

In: -5.126+/-0.028 $\chi^2$/NDF:21868.6/36

Out: -4.950+/-0.028 $\chi^2$/NDF:21602.9/41

All: -5.036+/-0.020 $\chi^2$/NDF: 43491.5/78

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 32.038+/-0.081 $\chi^2$/NDF: 3255.9/15

Left Out: 17.760+/-0.025 $\chi^2$/NDF:47716.5/22

Right Out: 33.837+/-0.082 $\chi^2$/NDF: 4237.8/18

Left In: 17.358+/-0.026 $\chi^2$/NDF:36730.7/20

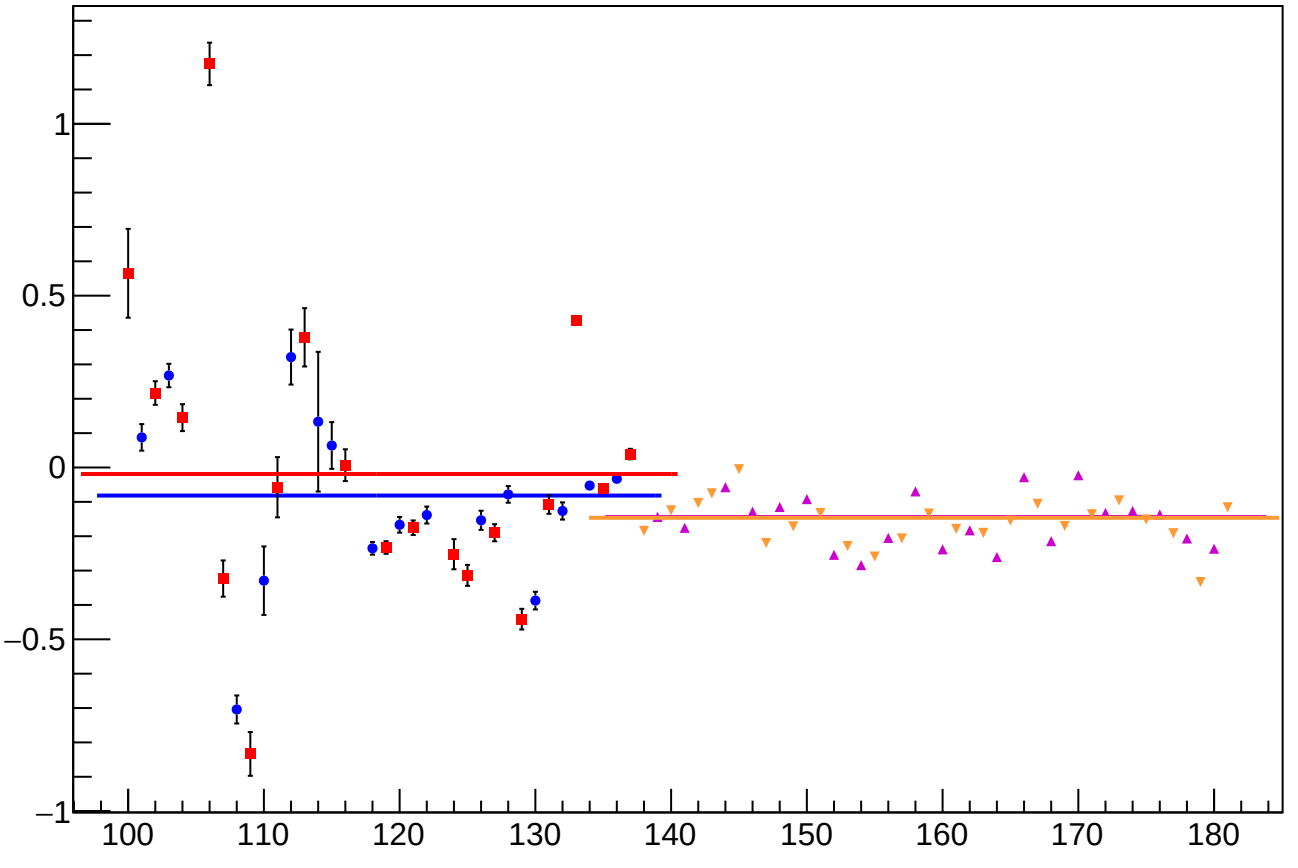
Left: 17.564+/-0.018 $\chi^2$/NDF: 84570.1/43

Right: 32.934+/-0.058 $\chi^2$/NDF: 7737.6/34

In: 18.715+/-0.025 $\chi^2$/NDF:69585.3/36

Out: 19.176+/-0.024 $\chi^2$/NDF:87337.4/41

All: 18.950+/-0.017 $\chi^2$/NDF: 157100.1/78




Right In: -0.082+/-0.005 $\chi^2$/NDF: 689.2/15

Left Out: -0.146+/-0.001 $\chi^2$/NDF:3643.3/22

Right Out: -0.019+/-0.005 $\chi^2$/NDF: 2273.7/18

Left In: -0.144+/-0.001 $\chi^2$/NDF:4104.4/20

Left: -0.145+/-0.001 $\chi^2$/NDF: 7749.7/43

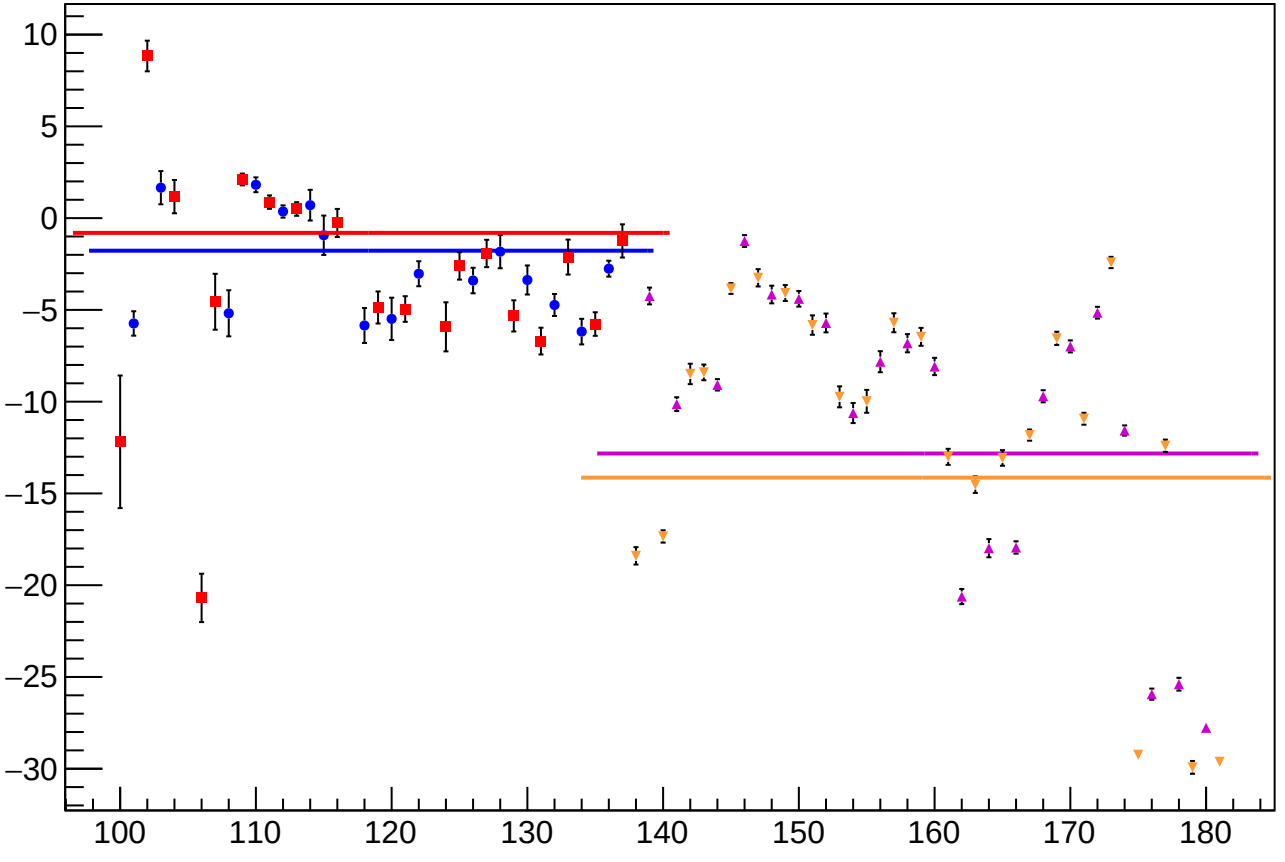
Right: -0.053+/-0.004 $\chi^2$/NDF: 3041.0/34

In: -0.141+/-0.001 $\chi^2$/NDF:4951.6/36

Out: -0.141+/-0.001 $\chi^2$/NDF:6490.3/41

All: -0.141+/-0.001 $\chi^2$/NDF: 11441.9/78

reg_asym_sam_1357_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -1.775+/-0.157 $\chi^2$/NDF: 297.7/15

Left Out: -14.141+/-0.078 $\chi^2$/NDF:15046.7/22

Right Out: -0.803+/-0.148 $\chi^2$/NDF: 733.7/18

Left In: -12.824+/-0.081 $\chi^2$/NDF:11026.2/20

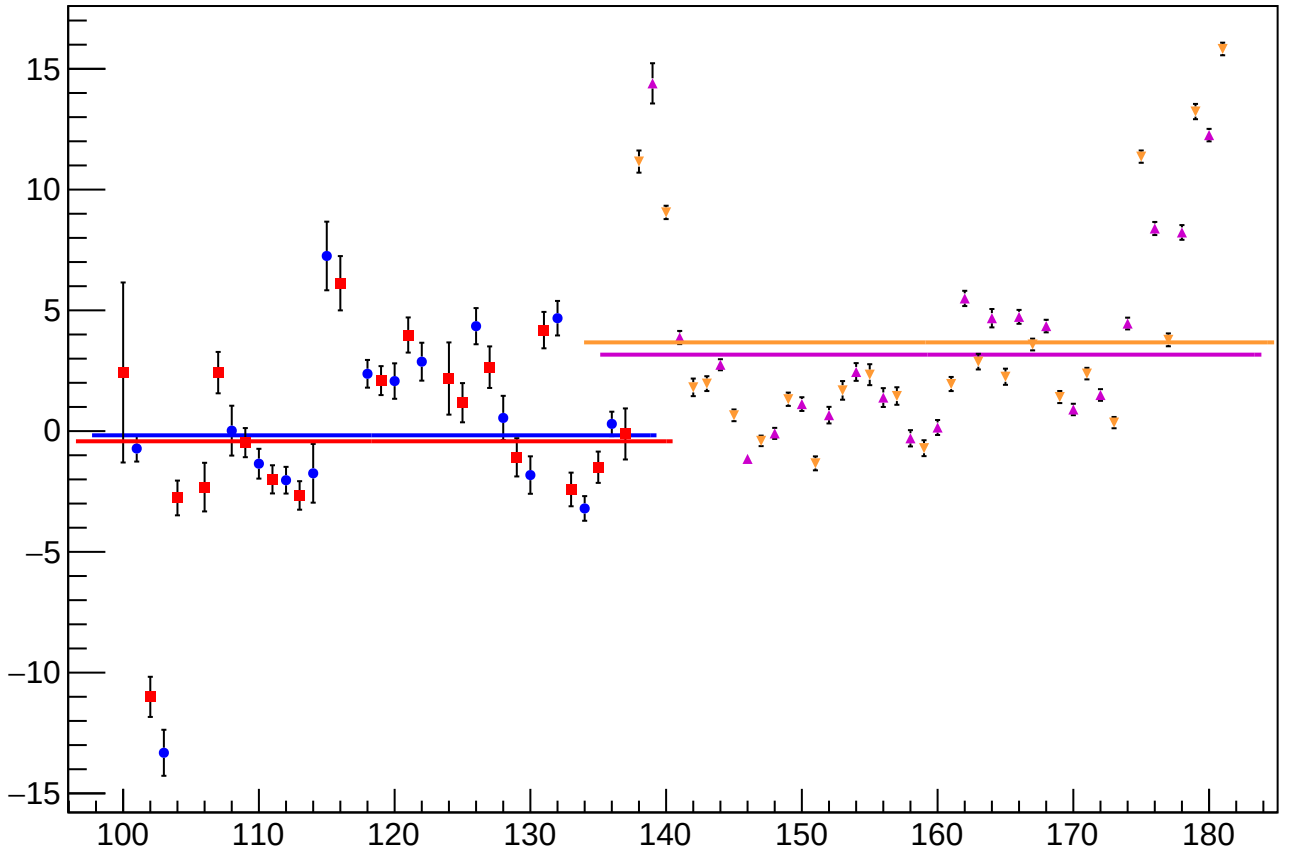
Left: -13.503+/-0.056 $\chi^2$/NDF: 26209.7/43

Right: -1.261+/-0.108 $\chi^2$/NDF: 1051.6/34

In: -10.512+/-0.072 $\chi^2$/NDF:15234.4/36

Out: -11.231+/-0.069 $\chi^2$/NDF:22103.1/41

All: -10.885+/-0.050 $\chi^2$/NDF: 37389.4/78




Right In: -0.174+/-0.173 $\chi^2$/NDF: 403.1/15

Left Out: 3.673+/-0.060 $\chi^2$/NDF:6184.3/22

Right Out: -0.421+/-0.177 $\chi^2$/NDF: 366.3/18

Left In: 3.166+/-0.061 $\chi^2$/NDF:3392.4/20

Left: 3.425+/-0.043 $\chi^2$/NDF: 9612.1/43

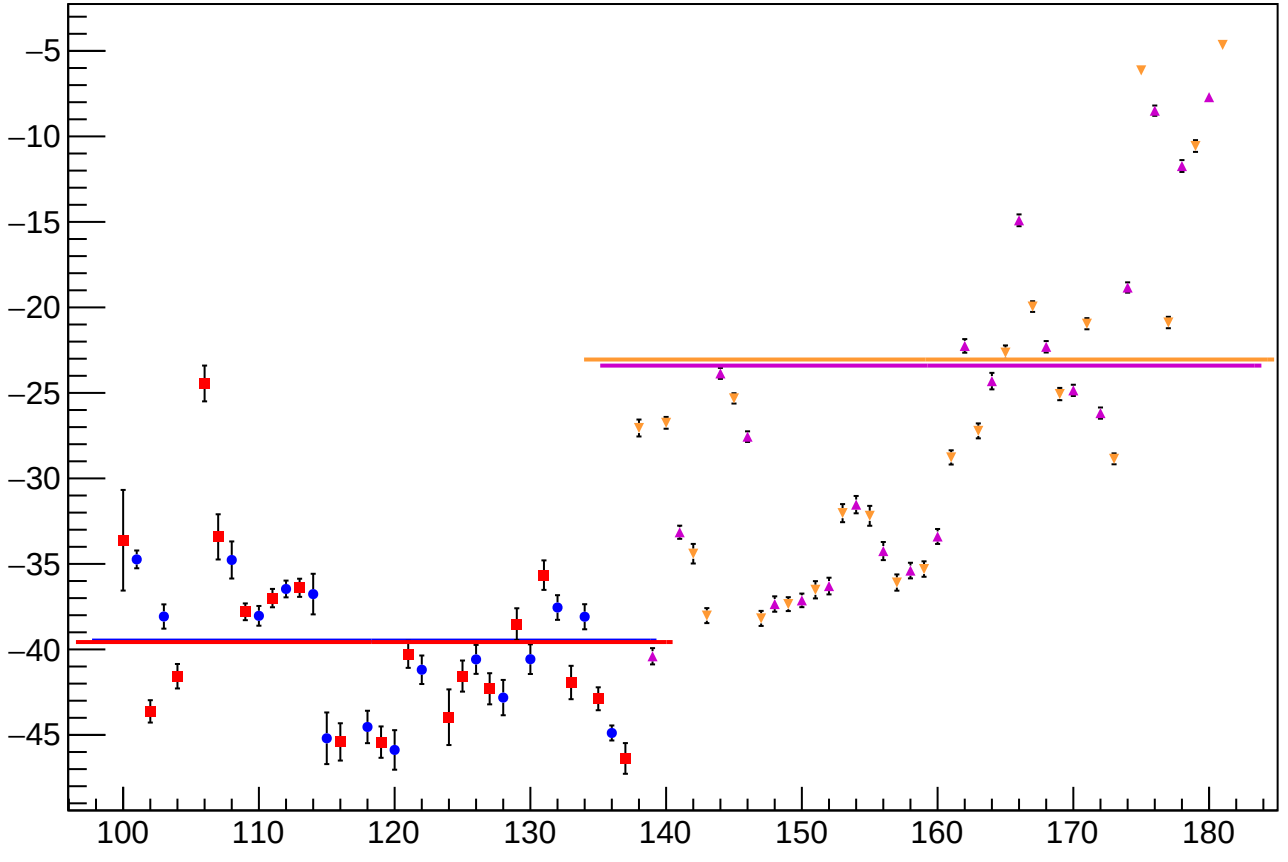
Right: -0.295+/-0.124 $\chi^2$/NDF: 770.4/34

In: 2.796+/-0.058 $\chi^2$/NDF:4126.9/36

Out: 3.256+/-0.057 $\chi^2$/NDF:7030.1/41

All: 3.030+/-0.040 $\chi^2$/NDF: 11189.5/78

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -39.484+/-0.180 $\chi^2$/NDF: 409.3/15

Left Out: -23.047+/-0.078 $\chi^2$/NDF:18484.5/22

Right Out: -39.570+/-0.181 $\chi^2$/NDF: 553.5/18

Left In: -23.403+/-0.080 $\chi^2$/NDF:14843.0/20

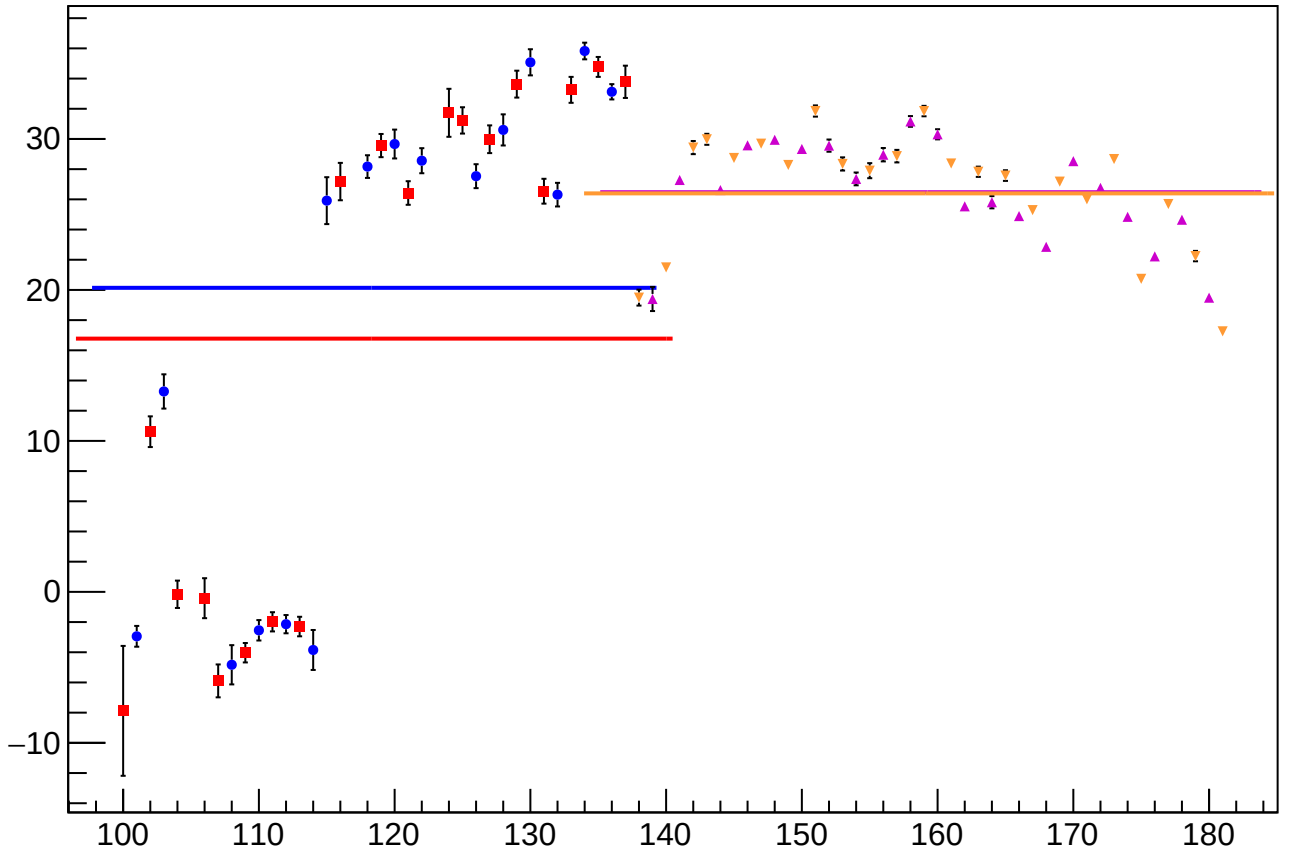
Left: -23.220+/-0.056 $\chi^2$/NDF: 33337.6/43

Right: -39.526+/-0.128 $\chi^2$/NDF: 962.9/34

In: -26.065+/-0.073 $\chi^2$/NDF:21895.7/36

Out: -25.643+/-0.072 $\chi^2$/NDF:26063.4/41

All: -25.849+/-0.051 $\chi^2$/NDF: 47976.0/78




Right In: 20.140+/-0.195 $\chi^2$/NDF: 6684.6/15

Left Out: 26.395+/-0.067 $\chi^2$/NDF:3146.1/22

Right Out: 16.775+/-0.200 $\chi^2$/NDF: 6739.1/18

Left In: 26.474+/-0.069 $\chi^2$/NDF:2028.4/20

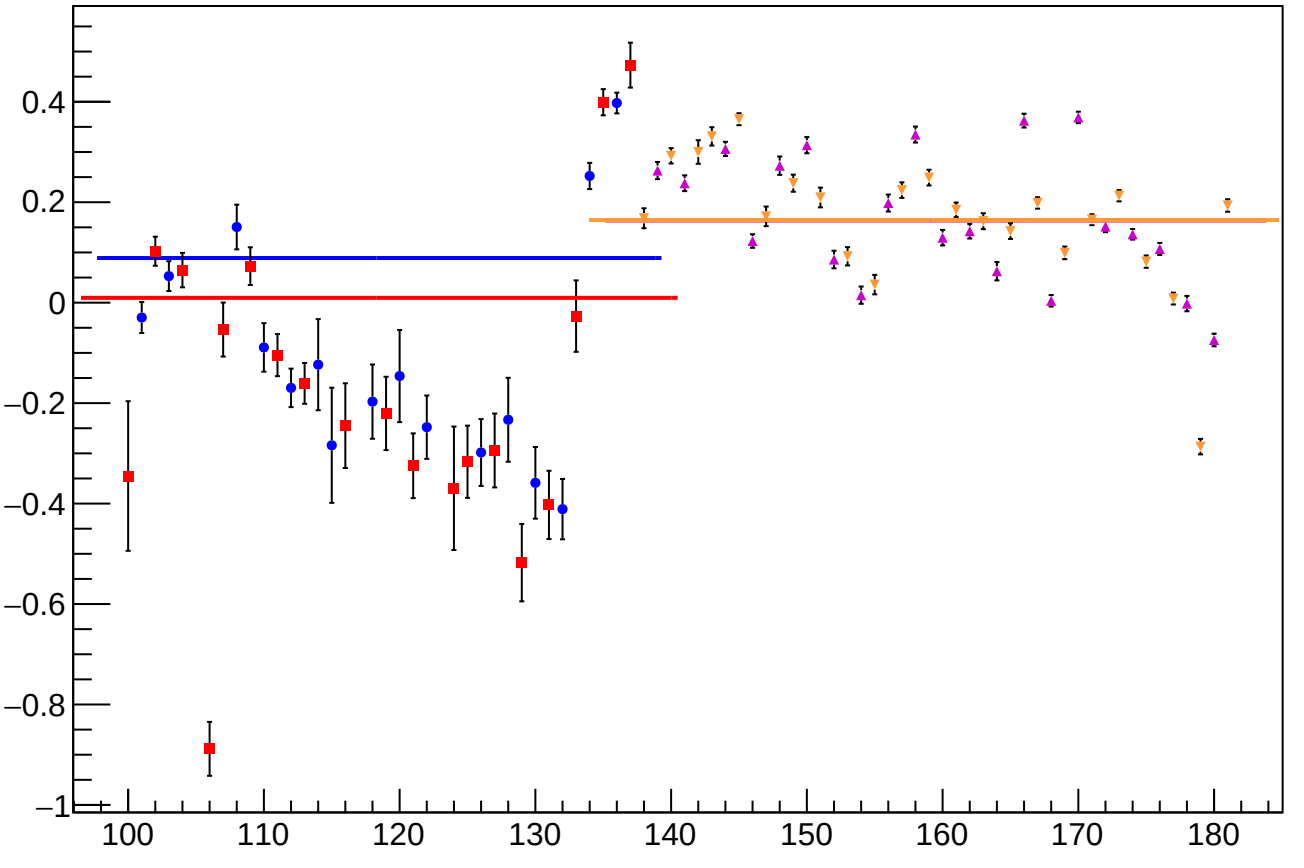
Left: 26.434+/-0.048 $\chi^2$/NDF: 5175.2/43

Right: 18.500+/-0.139 $\chi^2$/NDF: 13569.2/34

In: 25.771+/-0.065 $\chi^2$/NDF:9653.9/36

Out: 25.413+/-0.064 $\chi^2$/NDF:11968.7/41

All: 25.589+/-0.045 $\chi^2$/NDF: 21638.1/78




Right In: 0.089+/-0.010 $\chi^2$/NDF: 563.9/15

Left Out: 0.164+/-0.003 $\chi^2$/NDF:1736.2/22

Right Out: 0.010+/-0.011 $\chi^2$/NDF: 834.8/18

Left In: 0.164+/-0.003 $\chi^2$/NDF:1775.1/20

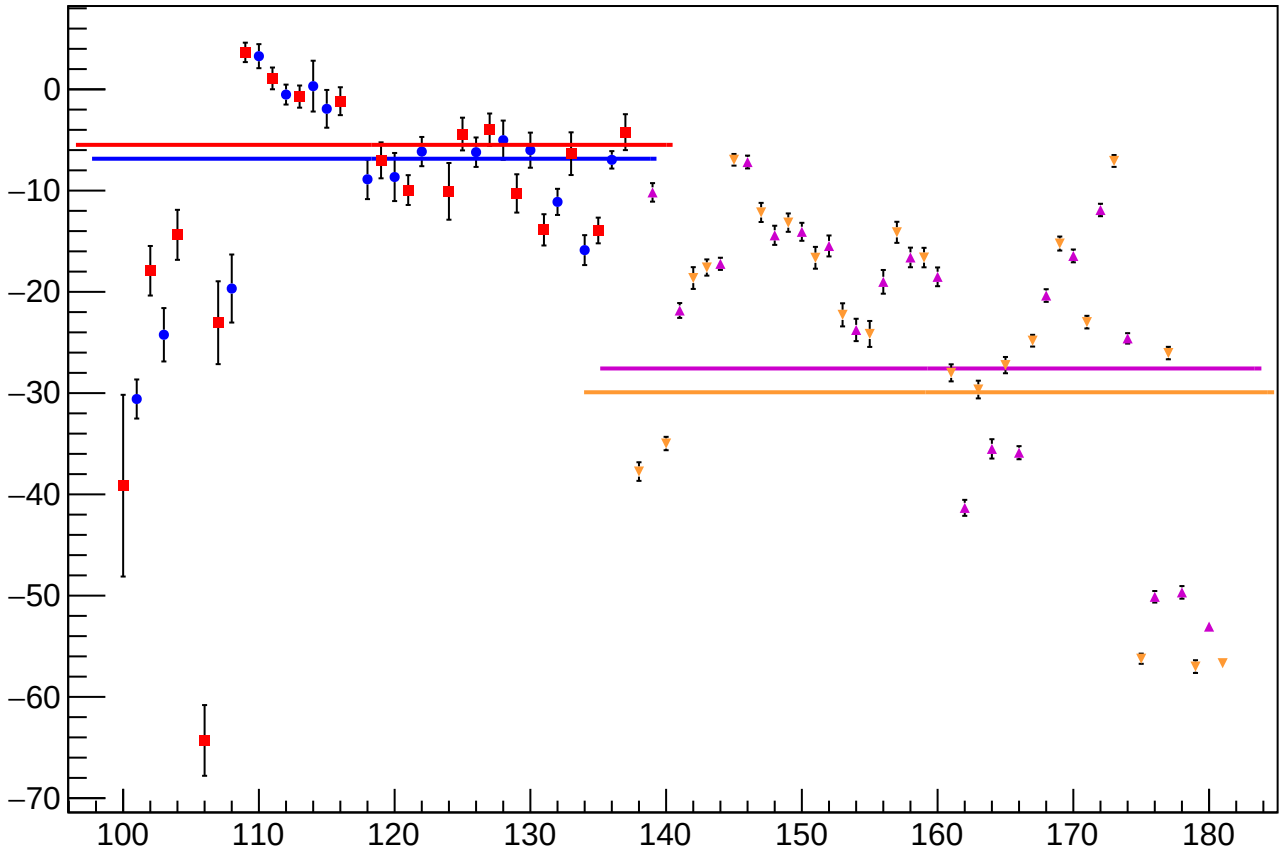
Left: 0.164+/-0.002 $\chi^2$/NDF: 3511.3/43

Right: 0.052+/-0.008 $\chi^2$/NDF: 1426.1/34

In: 0.158+/-0.003 $\chi^2$/NDF:2386.3/36

Out: 0.154+/-0.003 $\chi^2$/NDF:2754.5/41

All: 0.156+/-0.002 $\chi^2$/NDF: 5141.7/78




Right In: -6.853+/-0.376 $\chi^2$/NDF: 390.1/15

Left Out: -29.916+/-0.150 $\chi^2$/NDF:14016.4/22

Right Out: -5.483+/-0.369 $\chi^2$/NDF: 606.5/18

Left In: -27.567+/-0.155 $\chi^2$/NDF:9815.2/20

Left: -28.781+/-0.108 $\chi^2$/NDF: 23950.8/43

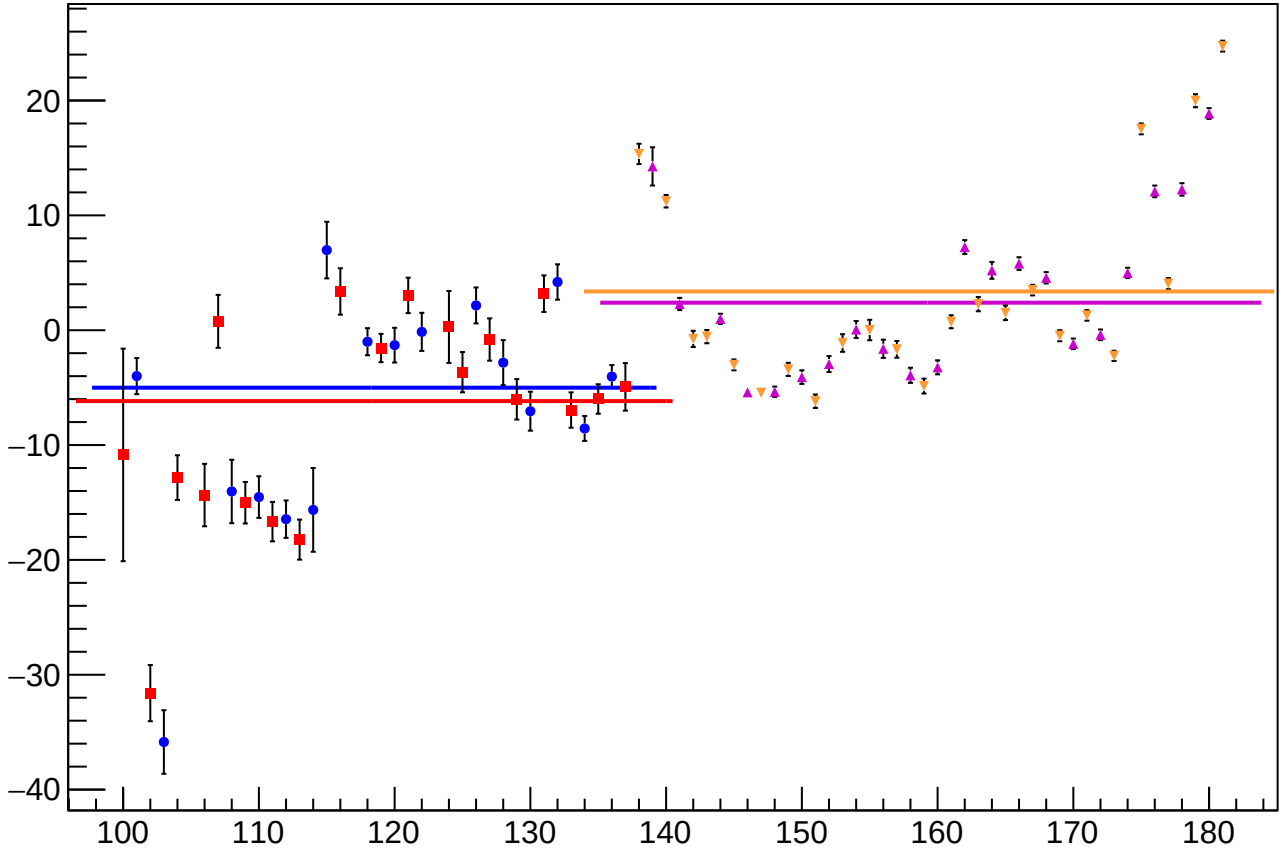
Right: -6.155+/-0.263 $\chi^2$/NDF: 1003.4/34

In: -24.564+/-0.143 $\chi^2$/NDF:12805.7/36

Out: -26.468+/-0.139 $\chi^2$/NDF:18388.6/41

All: -25.545+/-0.100 $\chi^2$/NDF: 31285.7/78

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -5.005+/-0.395 $\chi^2$/NDF: 341.7/15

Left Out: 3.375+/-0.115 $\chi^2$/NDF:5790.2/22

Right Out: -6.173+/-0.417 $\chi^2$/NDF: 369.1/18

Left In: 2.397+/-0.117 $\chi^2$/NDF:3382.6/20

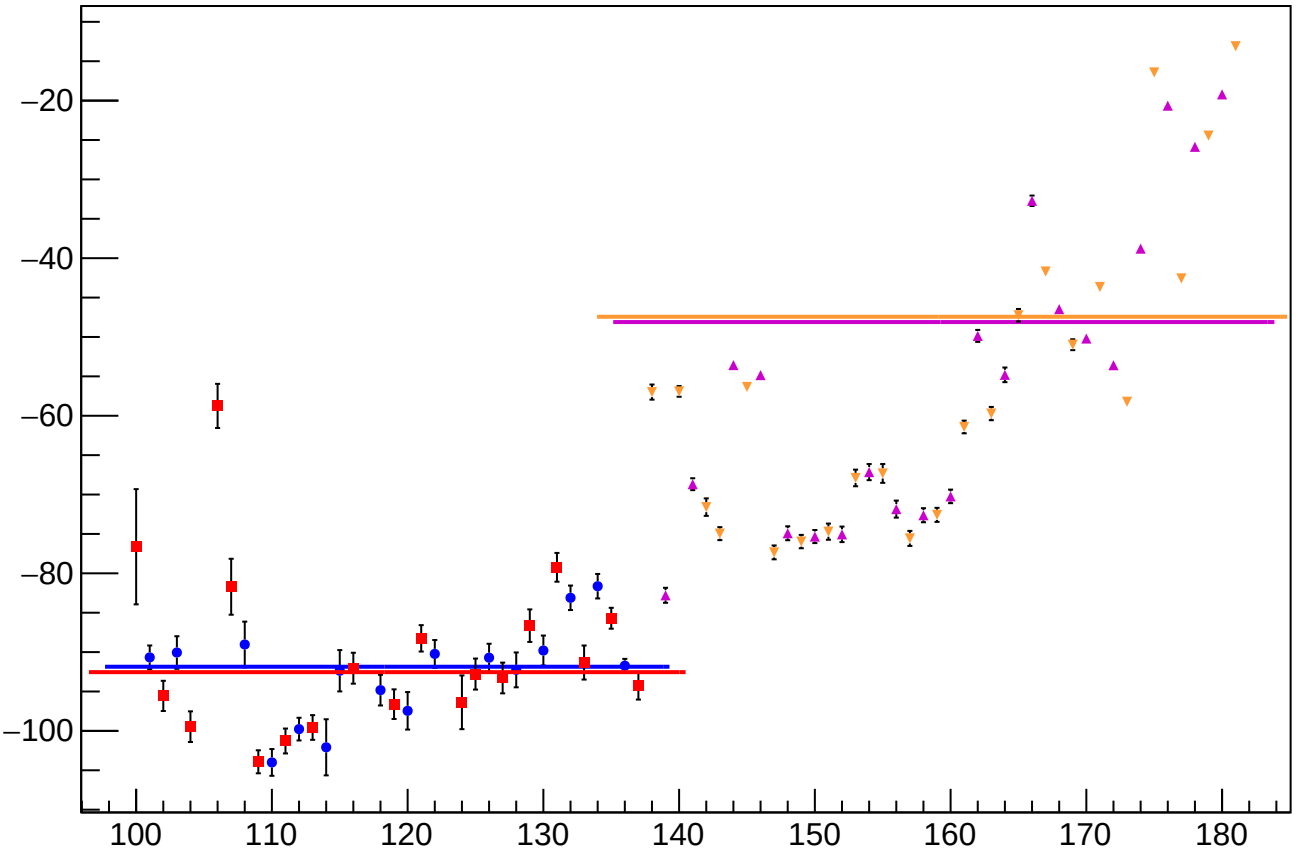
Left: 2.896+/-0.082 $\chi^2$/NDF: 9208.2/43

Right: -5.558+/-0.287 $\chi^2$/NDF: 715.0/34

In: 1.798+/-0.113 $\chi^2$/NDF:4046.5/36

Out: 2.699+/-0.111 $\chi^2$/NDF:6647.5/41

All: 2.255+/-0.079 $\chi^2$/NDF: 10726.7/78




Right In: -91.856+/-0.424 $\chi^2$/NDF: 177.3/15

Left Out: -47.435+/-0.149 $\chi^2$/NDF:19460.3/22

Right Out: -92.544+/-0.439 $\chi^2$/NDF: 387.8/18

Left In: -48.107+/-0.154 $\chi^2$/NDF:15458.1/20

Left: -47.761+/-0.107 $\chi^2$/NDF: 34928.3/43

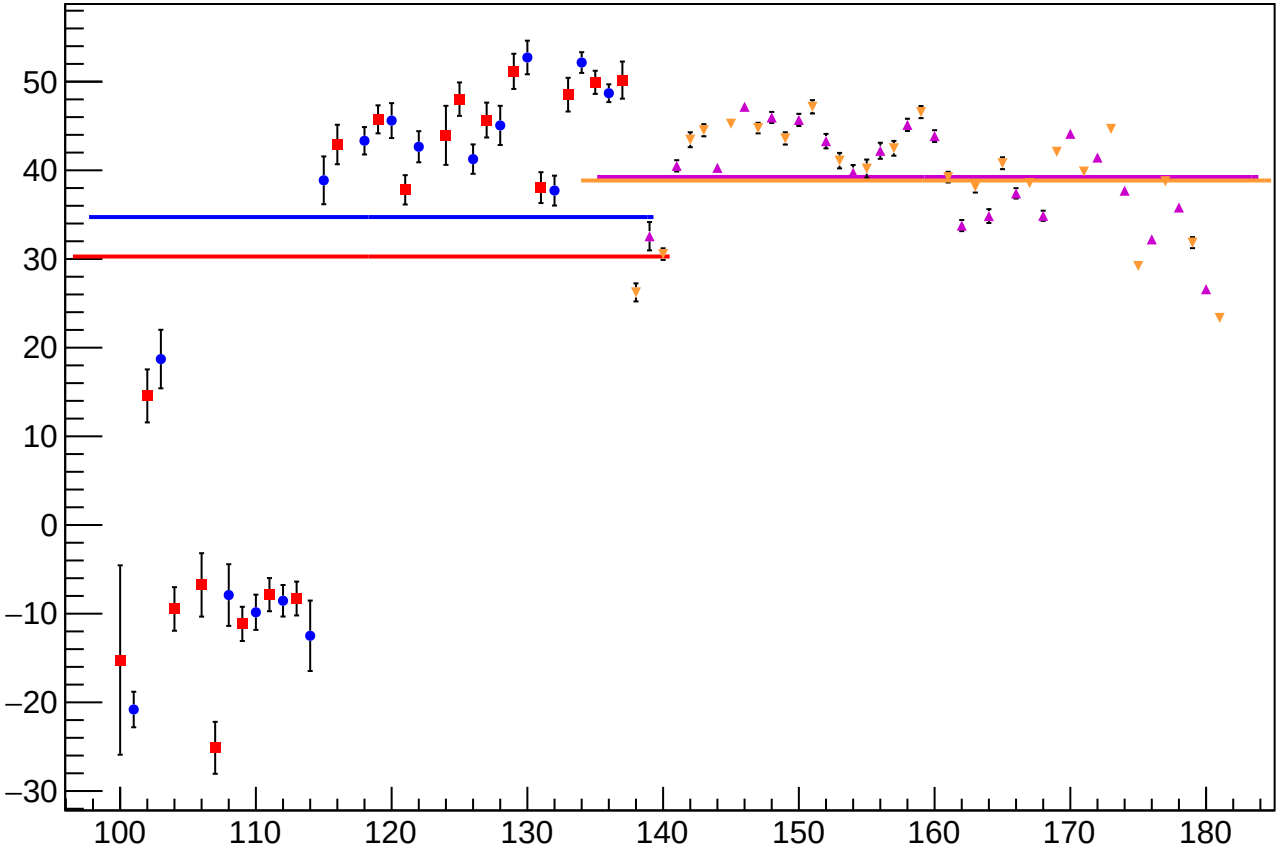
Right: -92.188+/-0.305 $\chi^2$/NDF: 566.3/34

In: -53.195+/-0.145 $\chi^2$/NDF:25041.7/36

Out: -52.113+/-0.141 $\chi^2$/NDF:29301.0/41

All: -52.642+/-0.101 $\chi^2$/NDF: 54371.3/78

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 34.729+/-0.442 $\chi^2$/NDF: 2809.1/15

Left Out: 38.852+/-0.129 $\chi^2$/NDF:2623.5/22

Right Out: 30.279+/-0.467 $\chi^2$/NDF: 2911.2/18

Left In: 39.251+/-0.132 $\chi^2$/NDF:1824.7/20

Left: 39.047+/-0.092 $\chi^2$/NDF: 4452.8/43

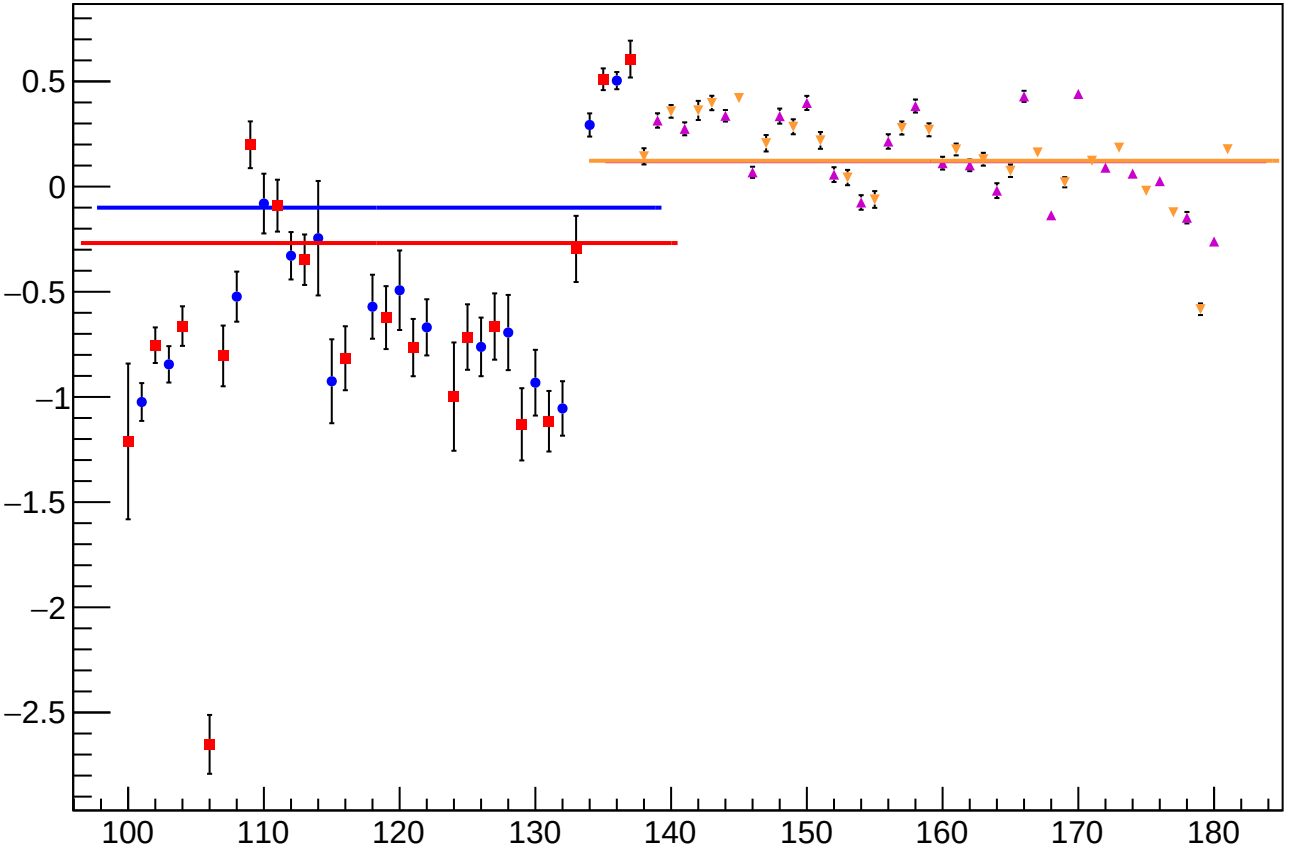
Right: 32.627+/-0.321 $\chi^2$/NDF: 5768.2/34

In: 38.879+/-0.127 $\chi^2$/NDF:4729.9/36

Out: 38.241+/-0.125 $\chi^2$/NDF:5847.5/41

All: 38.555+/-0.089 $\chi^2$/NDF: 10590.3/78

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.100+/-0.024 $\chi^2$/NDF: 631.4/15

Left Out: 0.123+/-0.006 $\chi^2$/NDF:1275.7/22

Right Out: -0.268+/-0.026 $\chi^2$/NDF: 822.4/18

Left In: 0.121+/-0.006 $\chi^2$/NDF:1249.9/20

Left: 0.122+/-0.004 $\chi^2$/NDF: 2525.7/43

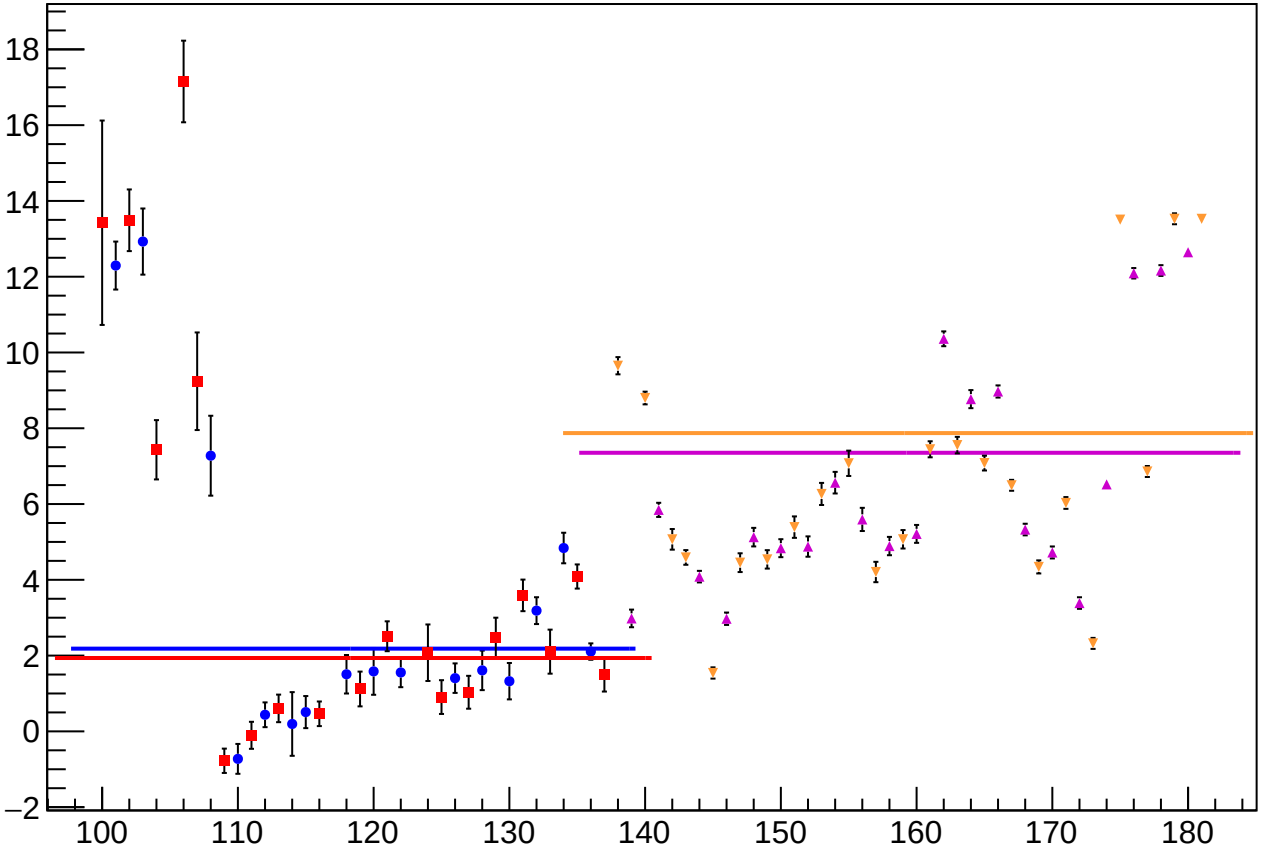
Right: -0.176+/-0.018 $\chi^2$/NDF: 1476.0/34

In: 0.108+/-0.006 $\chi^2$/NDF:1961.1/36

Out: 0.105+/-0.006 $\chi^2$/NDF:2308.2/41

All: 0.106+/-0.004 $\chi^2$/NDF: 4269.5/78

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 2.184+/-0.105 $\chi^2$/NDF: 599.3/15

Left Out: 7.873+/-0.037 $\chi^2$/NDF:12188.8/22

Right Out: 1.936+/-0.105 $\chi^2$/NDF: 717.1/18

Left In: 7.353+/-0.038 $\chi^2$/NDF:8170.3/20

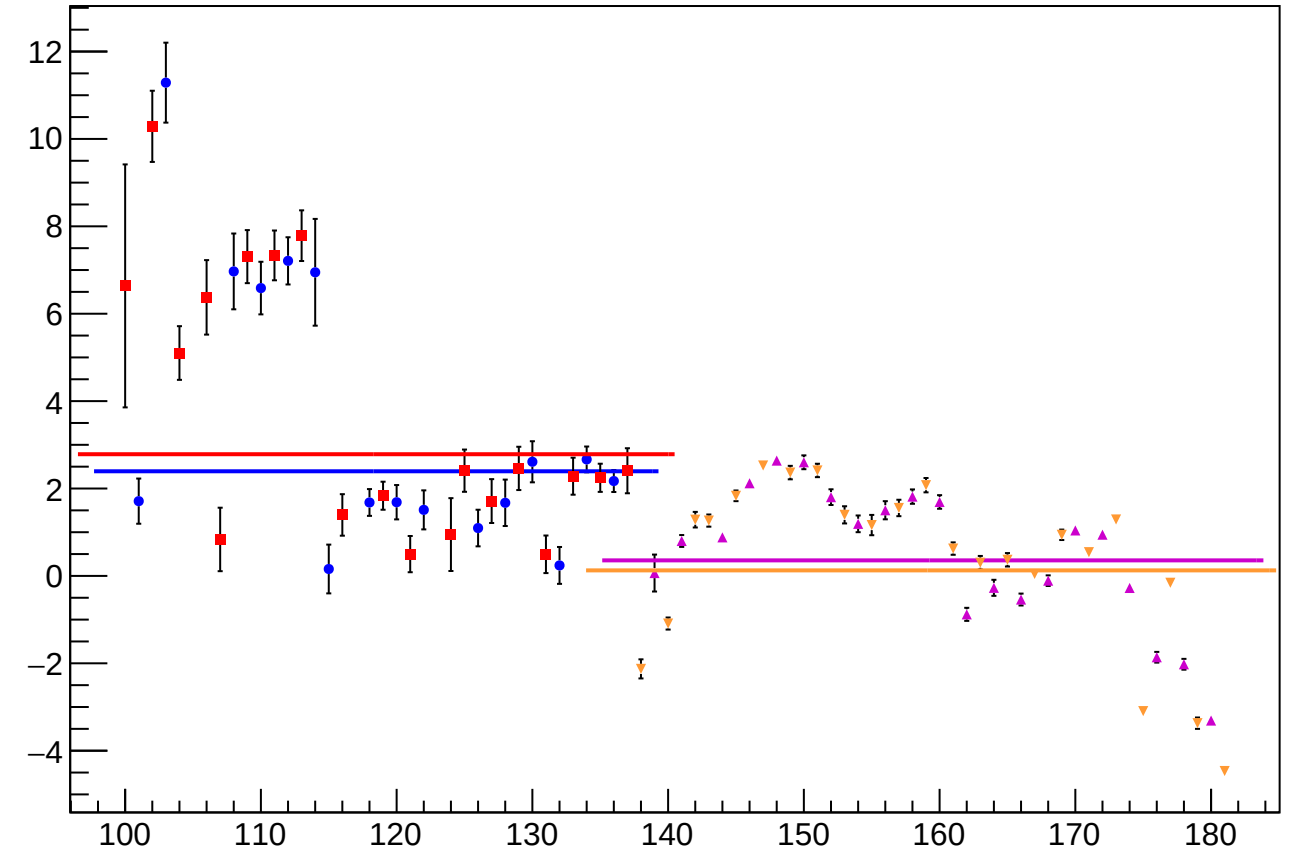
Left: 7.623+/-0.026 $\chi^2$/NDF: 20455.4/43

Right: 2.061+/-0.074 $\chi^2$/NDF: 1319.2/34

In: 6.750+/-0.036 $\chi^2$/NDF:10911.1/36

Out: 7.231+/-0.035 $\chi^2$/NDF:15730.7/41

All: 6.998+/-0.025 $\chi^2$/NDF: 26734.7/78




Right In: 2.394+/-0.108 $\chi^2$/NDF: 333.9/15

Left Out: 0.127+/-0.029 $\chi^2$/NDF:5107.5/22

Right Out: 2.785+/-0.116 $\chi^2$/NDF: 410.9/18

Left In: 0.356+/-0.029 $\chi^2$/NDF:3306.3/20

Left: 0.239+/-0.020 $\chi^2$/NDF: 8445.3/43

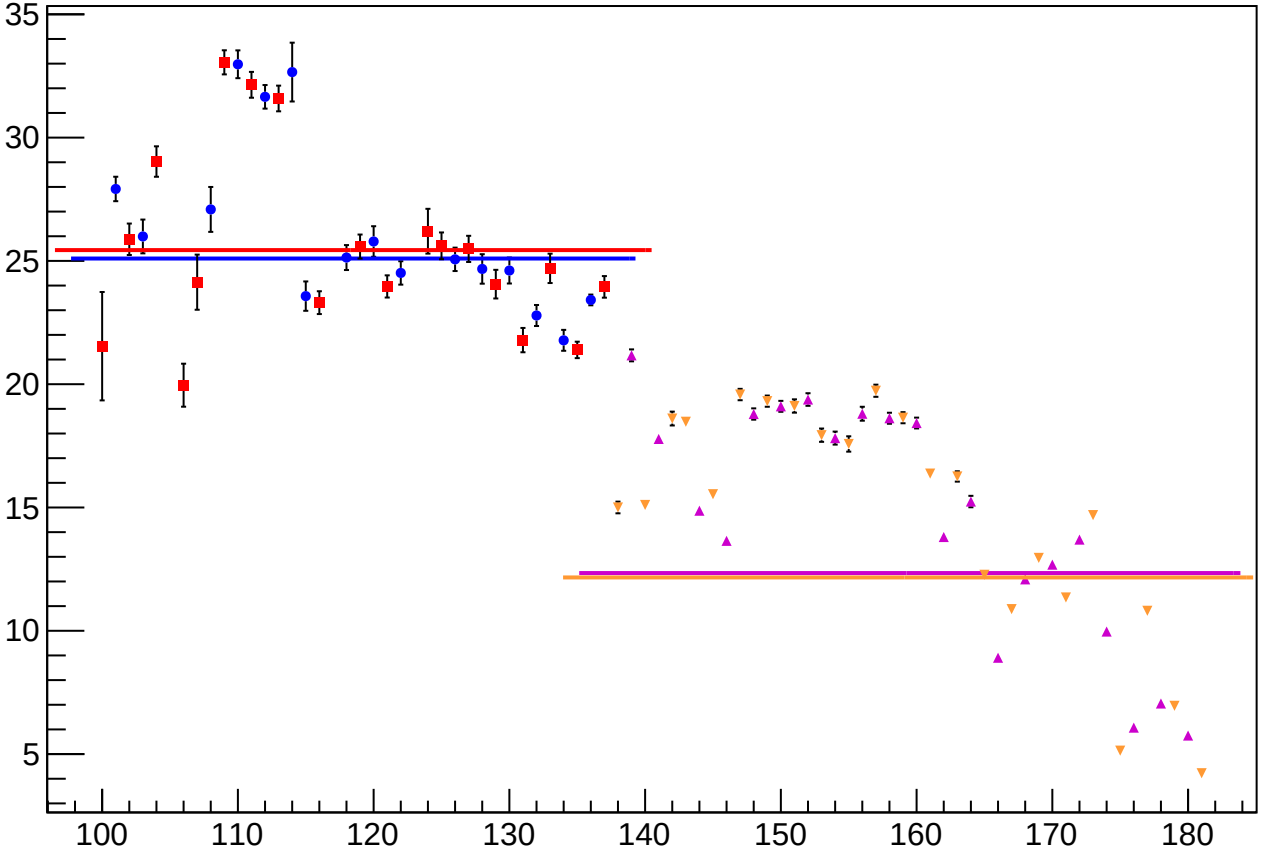
Right: 2.577+/-0.079 $\chi^2$/NDF: 750.9/34

In: 0.494+/-0.028 $\chi^2$/NDF:3970.3/36

Out: 0.279+/-0.028 $\chi^2$/NDF:6014.5/41

All: 0.384+/-0.020 $\chi^2$/NDF: 10014.4/78

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 25.096+/-0.118 $\chi^2$/NDF: 622.9/15

Left Out: 12.163+/-0.037 $\chi^2$/NDF:19523.5/22

Right Out: 25.438+/-0.124 $\chi^2$/NDF: 877.6/18

Left In: 12.341+/-0.038 $\chi^2$/NDF:15479.2/20

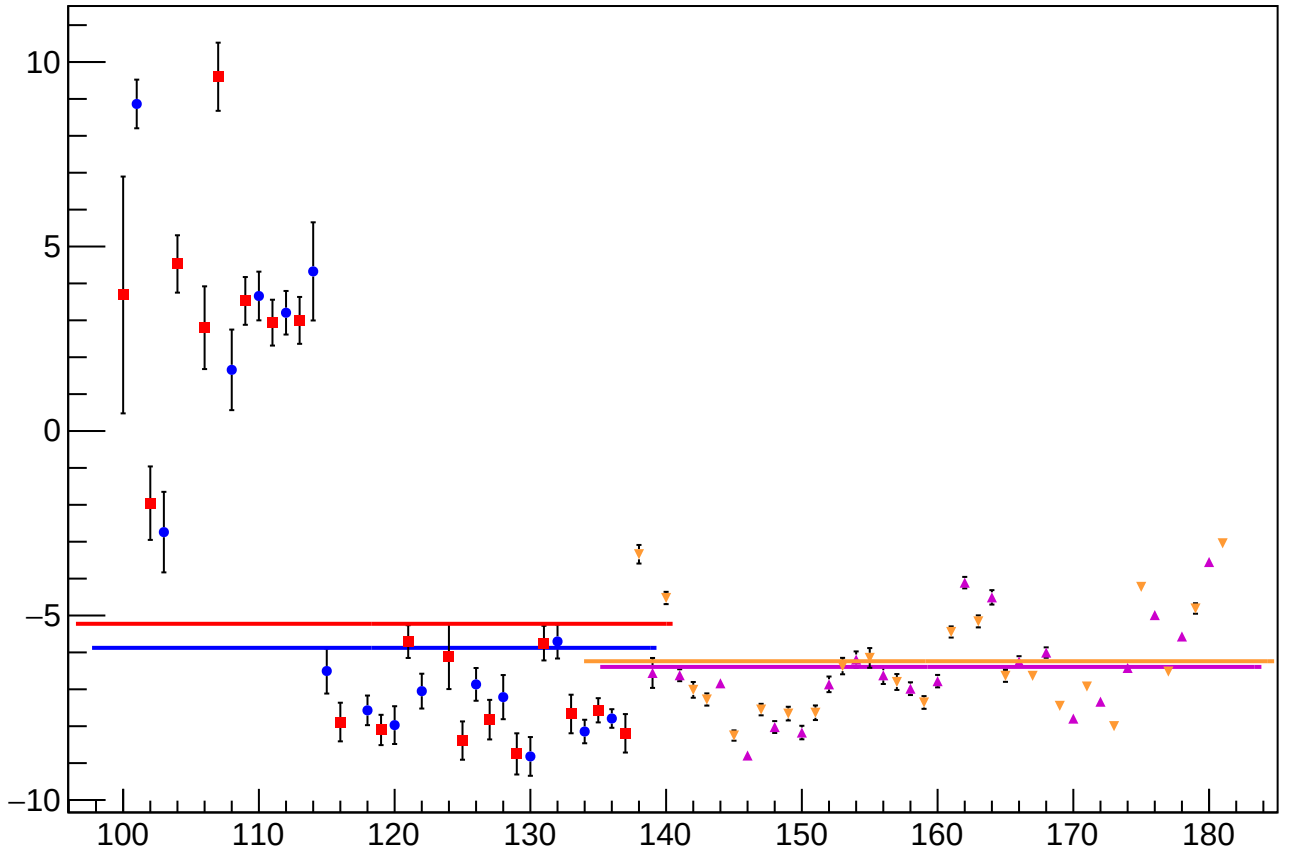
Left: 12.249+/-0.026 $\chi^2$/NDF: 35014.1/43

Right: 25.258+/-0.085 $\chi^2$/NDF: 1504.5/34

In: 13.547+/-0.036 $\chi^2$/NDF:26765.0/36

Out: 13.234+/-0.035 $\chi^2$/NDF:30933.4/41

All: 13.387+/-0.025 $\chi^2$/NDF: 57737.0/78




Right In: -5.876+/-0.121 $\chi^2$/NDF: 1251.4/15

Left Out: -6.239+/-0.032 $\chi^2$/NDF:2292.0/22

Right Out: -5.225+/-0.129 $\chi^2$/NDF: 1292.0/18

Left In: -6.393+/-0.033 $\chi^2$/NDF:1901.7/20

Left: -6.314+/-0.023 $\chi^2$/NDF: 4205.0/43

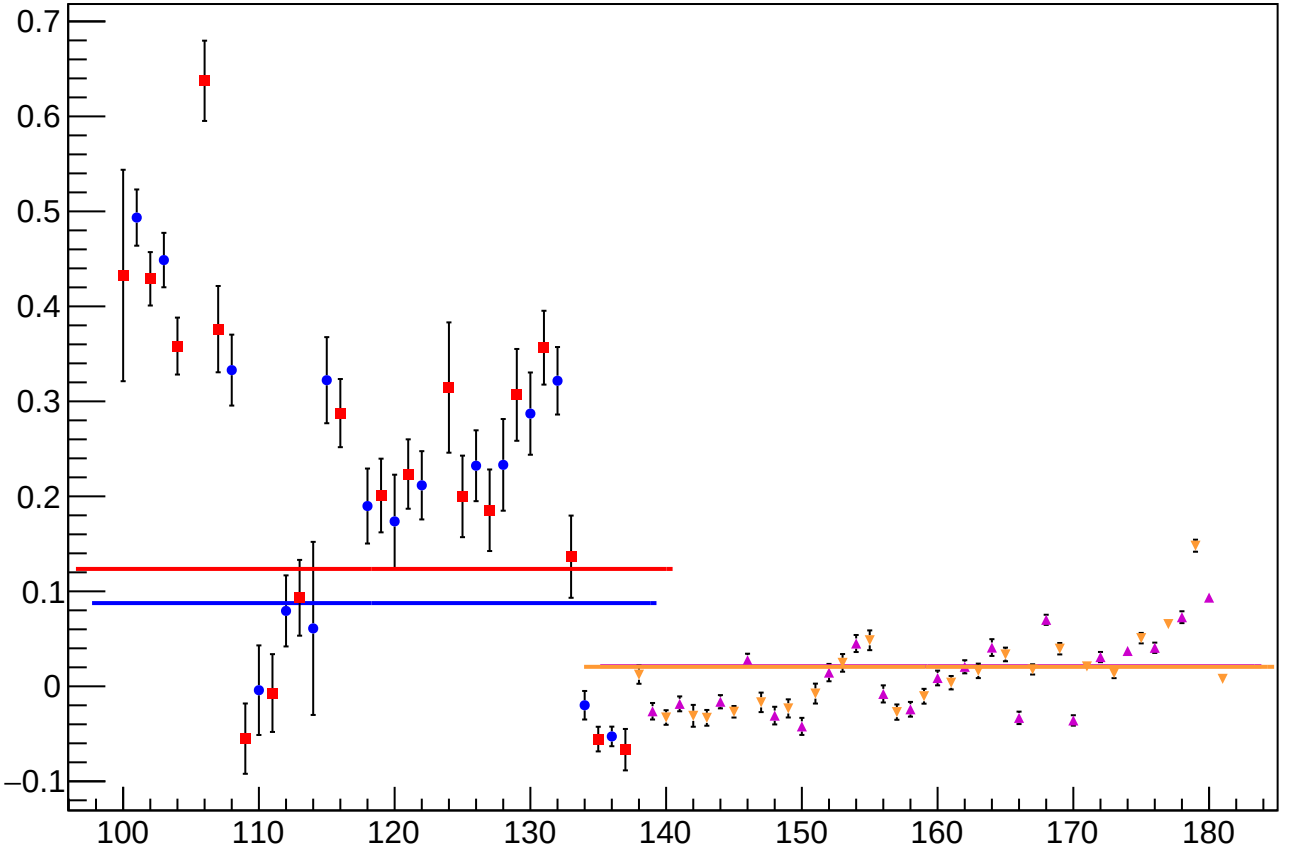
Right: -5.573+/-0.088 $\chi^2$/NDF: 2556.9/34

In: -6.358+/-0.032 $\chi^2$/NDF:3170.2/36

Out: -6.181+/-0.031 $\chi^2$/NDF:3641.9/41

All: -6.268+/-0.022 $\chi^2$/NDF: 6828.0/78

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.088+/-0.007 $\chi^2$/NDF: 768.0/15

Left Out: 0.021+/-0.001 $\chi^2$/NDF:809.5/22

Right Out: 0.124+/-0.007 $\chi^2$/NDF: 762.3/18

Left In: 0.021+/-0.001 $\chi^2$/NDF:768.3/20

Left: 0.021+/-0.001 $\chi^2$/NDF: 1577.9/43

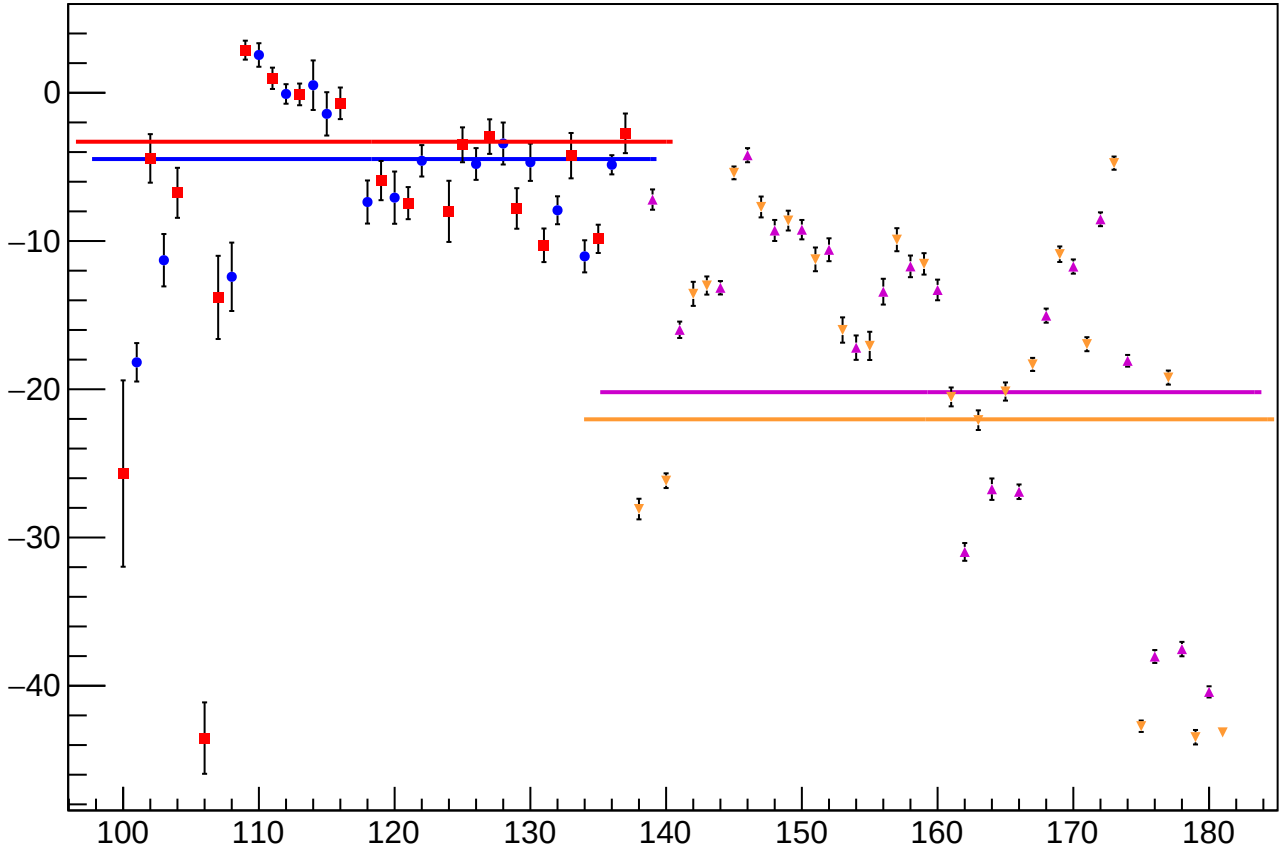
Right: 0.104+/-0.005 $\chi^2$/NDF: 1543.6/34

In: 0.024+/-0.001 $\chi^2$/NDF:1633.1/36

Out: 0.024+/-0.001 $\chi^2$/NDF:1762.1/41

All: 0.024+/-0.001 $\chi^2$/NDF: 3395.2/78

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -4.471+/-0.268 $\chi^2$/NDF: 331.8/15

Left Out: -22.027+/-0.114 $\chi^2$/NDF:14444.2/22

Right Out: -3.302+/-0.261 $\chi^2$/NDF: 584.6/18

Left In: -20.196+/-0.117 $\chi^2$/NDF:10271.1/20

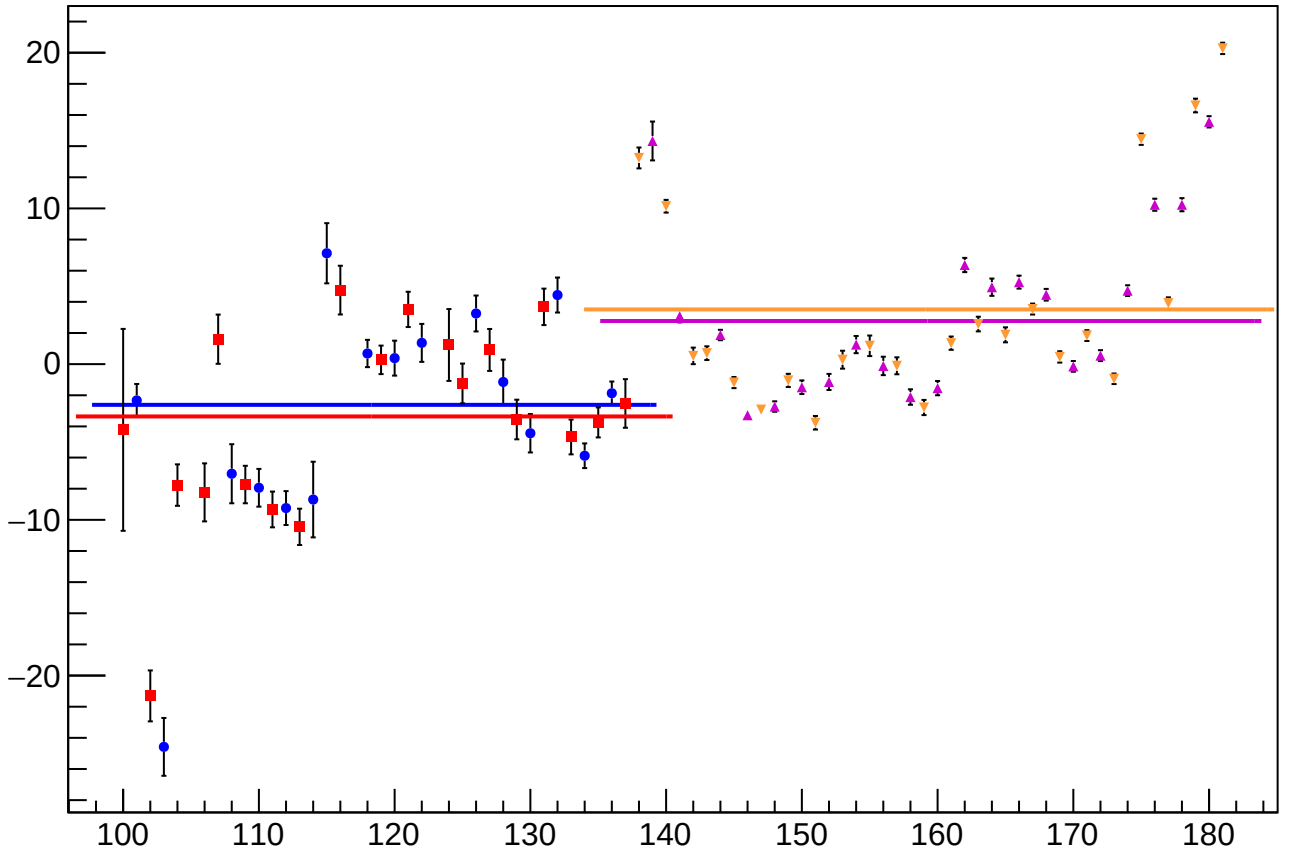
Left: -21.141+/-0.082 $\chi^2$/NDF: 24840.9/43

Right: -3.869+/-0.187 $\chi^2$/NDF: 926.1/34

In: -17.673+/-0.108 $\chi^2$/NDF:13484.1/36

Out: -19.041+/-0.104 $\chi^2$/NDF:19360.9/41

All: -18.379+/-0.075 $\chi^2$/NDF: 32928.6/78




Right In: -2.615+/-0.286 $\chi^2$/NDF: 351.9/15

Left Out: 3.513+/-0.087 $\chi^2$/NDF:5952.0/22

Right Out: -3.359+/-0.299 $\chi^2$/NDF: 359.6/18

Left In: 2.770+/-0.089 $\chi^2$/NDF:3389.4/20

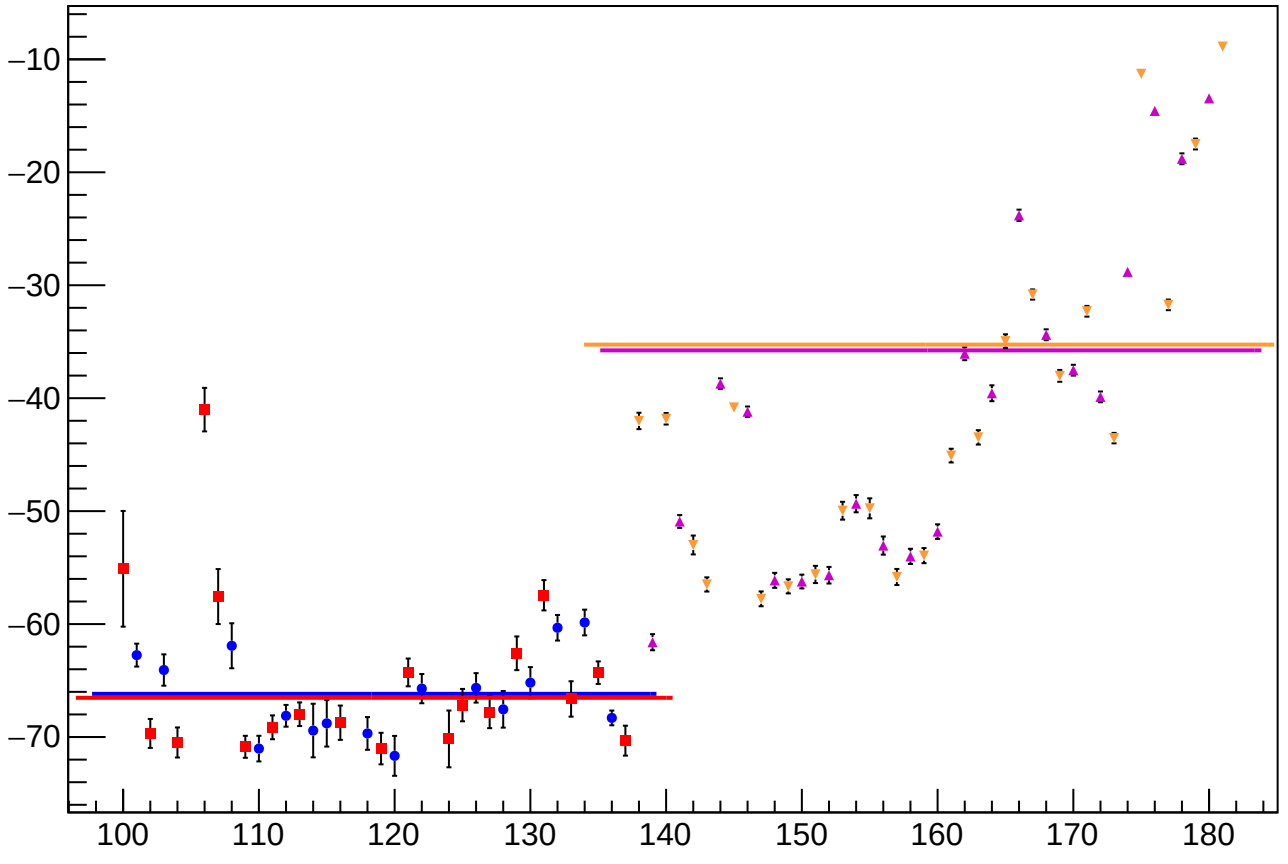
Left: 3.149+/-0.062 $\chi^2$/NDF: 9377.0/43

Right: -2.970+/-0.206 $\chi^2$/NDF: 714.8/34

In: 2.295+/-0.085 $\chi^2$/NDF:4065.1/36

Out: 2.975+/-0.084 $\chi^2$/NDF:6799.3/41

All: 2.640+/-0.060 $\chi^2$/NDF: 10897.1/78




Right In: -66.176+/-0.304 $\chi^2$/NDF: 129.2/15

Left Out: -35.258+/-0.113 $\chi^2$/NDF:19216.6/22

Right Out: -66.526+/-0.312 $\chi^2$/NDF: 321.7/18

Left In: -35.765+/-0.117 $\chi^2$/NDF:15307.7/20

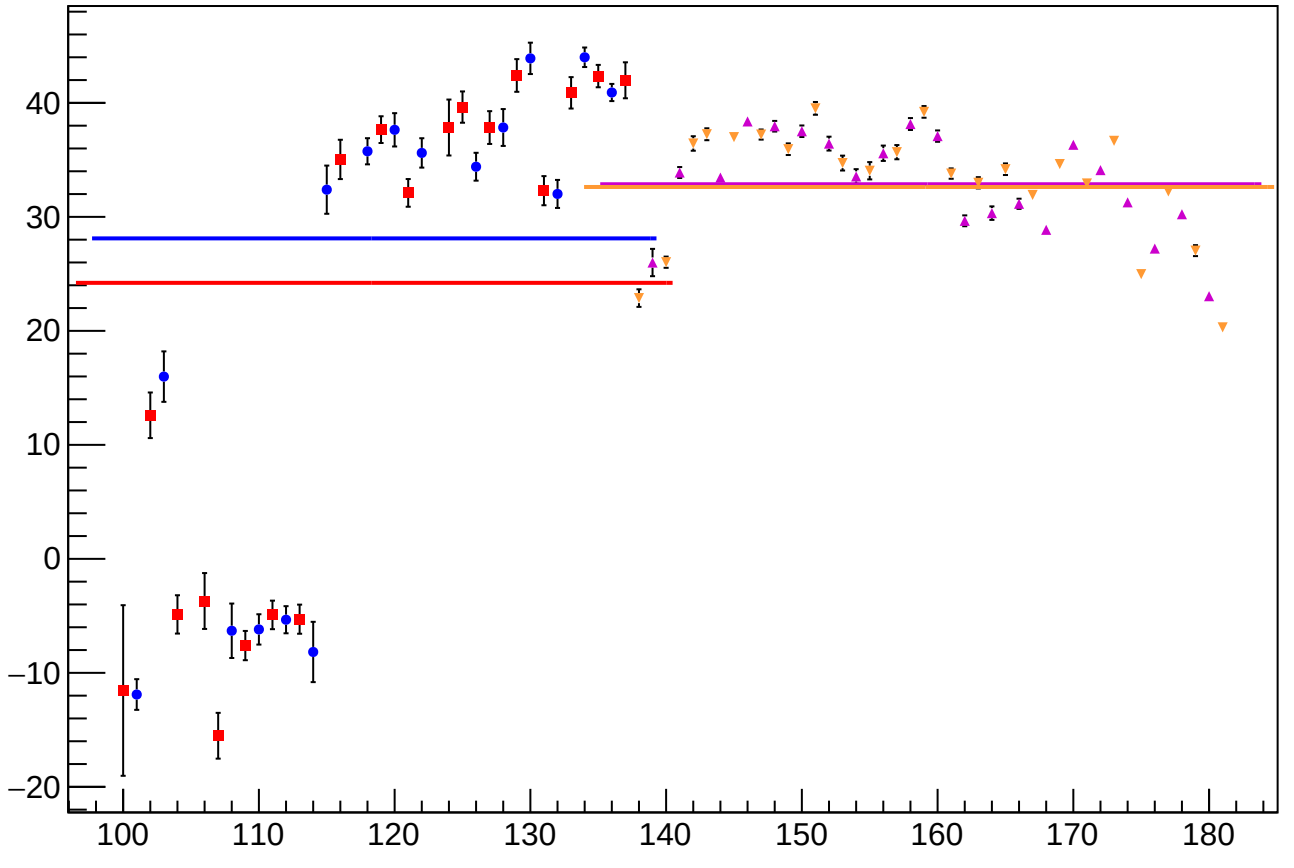
Left: -35.505+/-0.081 $\chi^2$/NDF: 34534.0/43

Right: -66.346+/-0.218 $\chi^2$/NDF: 451.5/34

In: -39.662+/-0.109 $\chi^2$/NDF:24143.3/36

Out: -38.898+/-0.107 $\chi^2$/NDF:28386.0/41

All: -39.272+/-0.076 $\chi^2$/NDF: 52554.5/78




Right In: 28.112+/-0.320 $\chi^2$/NDF: 3727.7/15

Left Out: 32.622+/-0.098 $\chi^2$/NDF:2779.0/22

Right Out: 24.212+/-0.336 $\chi^2$/NDF: 3841.7/18

Left In: 32.861+/-0.100 $\chi^2$/NDF:1861.7/20

Left: 32.739+/-0.070 $\chi^2$/NDF: 4643.5/43

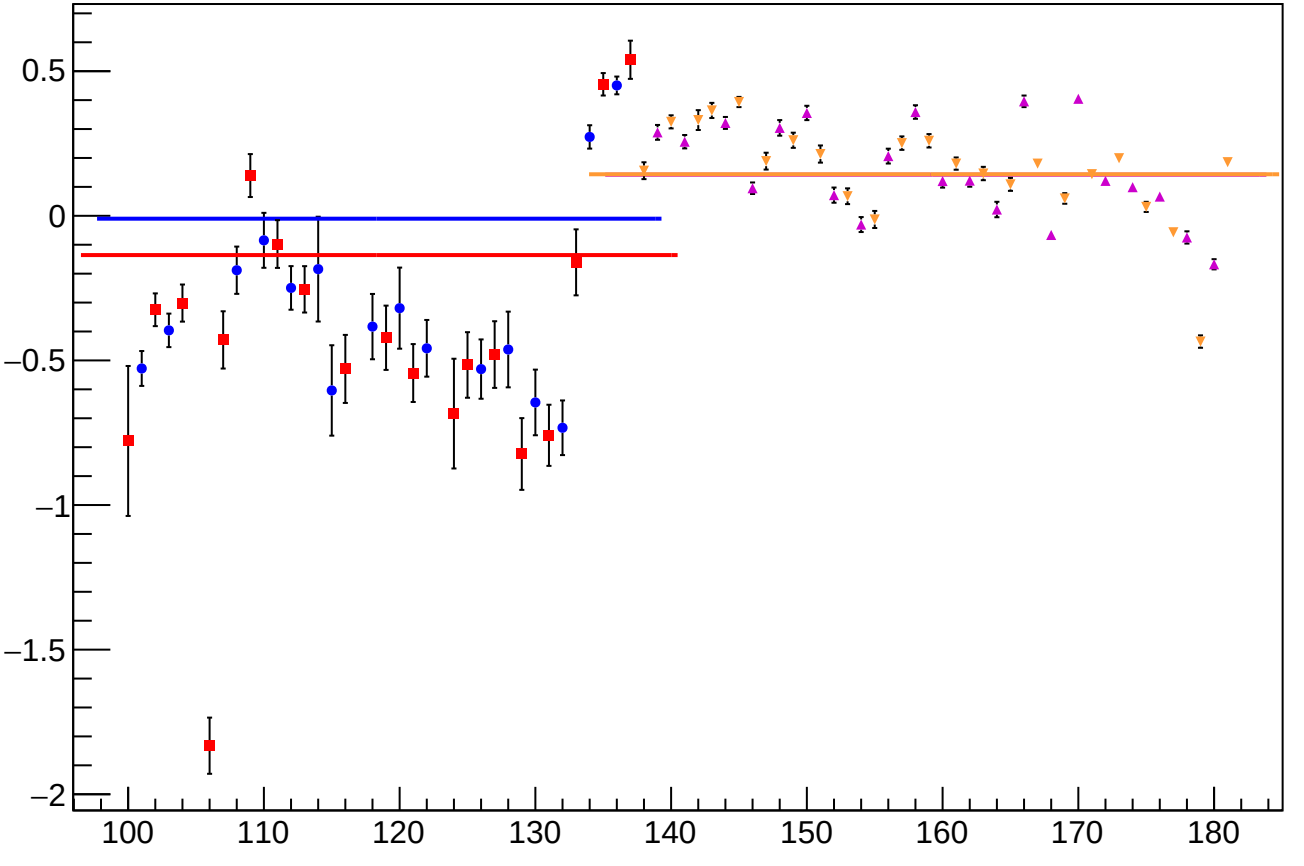
Right: 26.255+/-0.232 $\chi^2$/NDF: 7640.1/34

In: 32.438+/-0.096 $\chi^2$/NDF:5790.0/36

Out: 31.961+/-0.094 $\chi^2$/NDF:7199.2/41

All: 32.196+/-0.067 $\chi^2$/NDF: 13001.9/78

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.010+/-0.017 $\chi^2$/NDF: 587.4/15

Left Out: 0.144+/-0.004 $\chi^2$/NDF:1433.9/22

Right Out: -0.136+/-0.019 $\chi^2$/NDF: 818.5/18

Left In: 0.142+/-0.004 $\chi^2$/NDF:1424.6/20

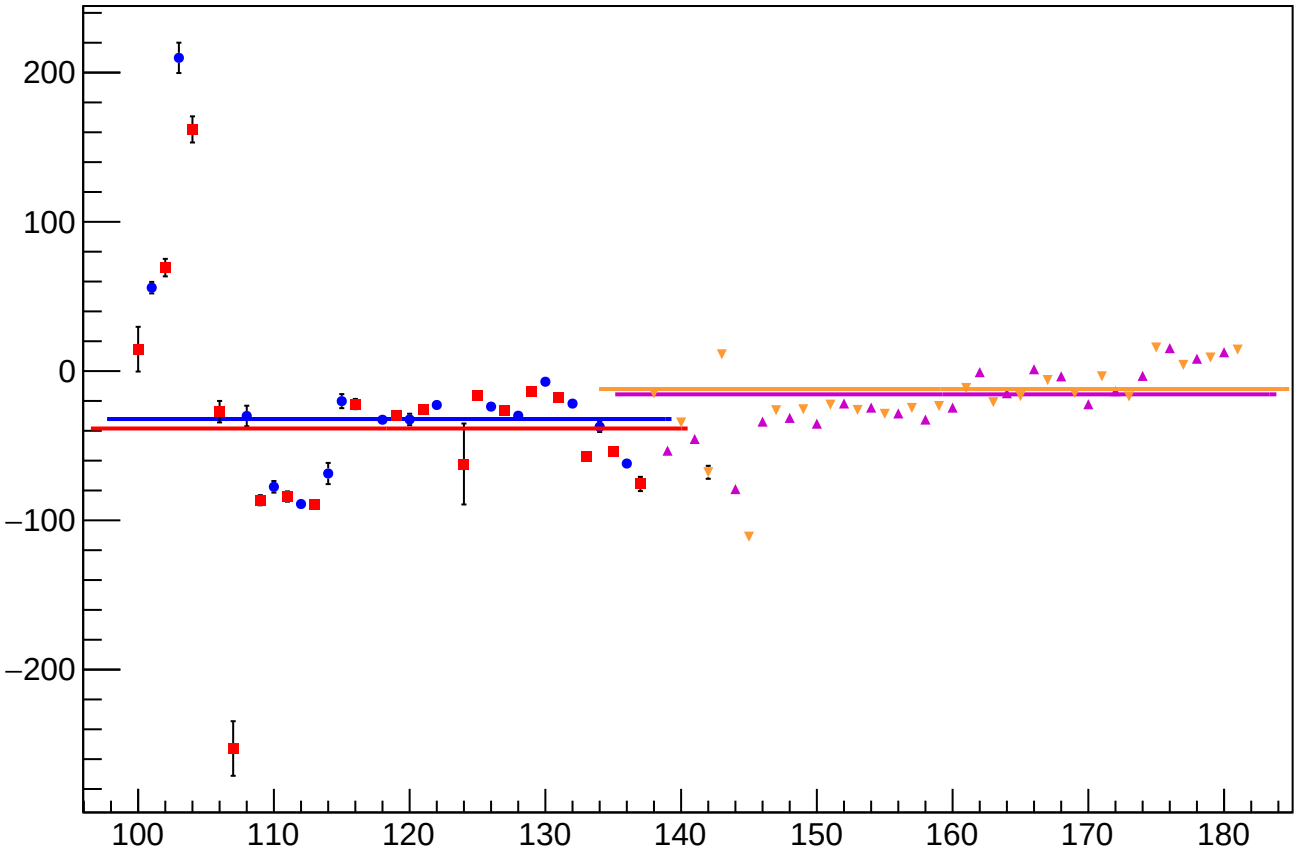
Left: 0.143+/-0.003 $\chi^2$/NDF: 2858.5/43

Right: -0.068+/-0.013 $\chi^2$/NDF: 1430.0/34

In: 0.133+/-0.004 $\chi^2$/NDF:2084.2/36

Out: 0.129+/-0.004 $\chi^2$/NDF:2461.1/41

All: 0.131+/-0.003 $\chi^2$/NDF: 4545.6/78




Right In: -32.117+/-0.843 $\chi^2$/NDF: 1877.5/15

Left Out: -12.026+/-0.540 $\chi^2$/NDF:2047.4/22

Right Out: -38.462+/-0.864 $\chi^2$/NDF: 1972.5/18

Left In: -15.582+/-0.560 $\chi^2$/NDF:1724.8/20

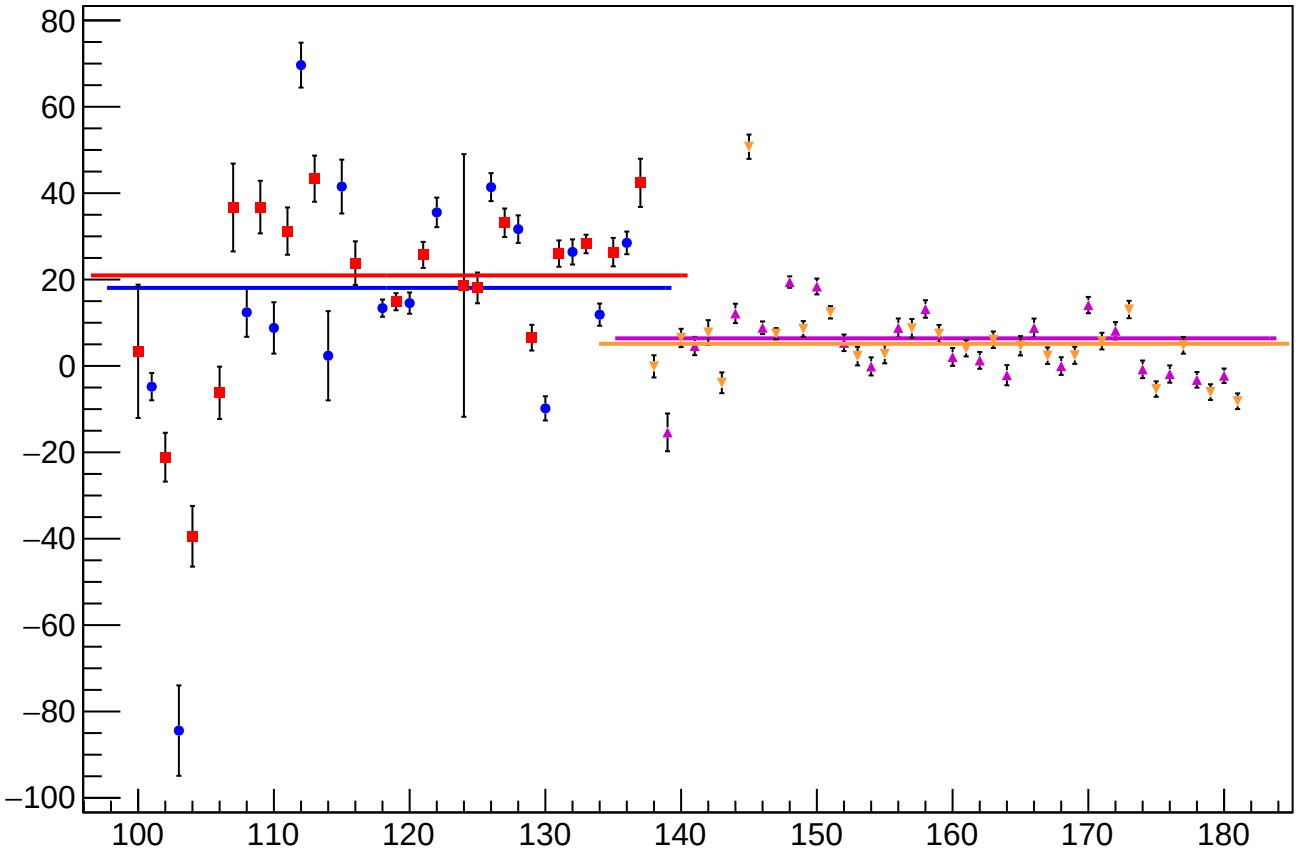
Left: -13.740+/-0.389 $\chi^2$/NDF: 3793.1/43

Right: -35.208+/-0.603 $\chi^2$/NDF: 3877.6/34

In: -20.650+/-0.467 $\chi^2$/NDF:3869.3/36

Out: -19.454+/-0.458 $\chi^2$/NDF:4692.3/41

All: -20.041+/-0.327 $\chi^2$/NDF: 8565.0/78




Right In: 18.068+/-0.823 $\chi^2$/NDF: 499.6/15

Left Out: 5.131+/-0.406 $\chi^2$/NDF:468.0/22

Right Out: 20.959+/-0.868 $\chi^2$/NDF: 262.6/18

Left In: 6.389+/-0.423 $\chi^2$/NDF:335.4/20

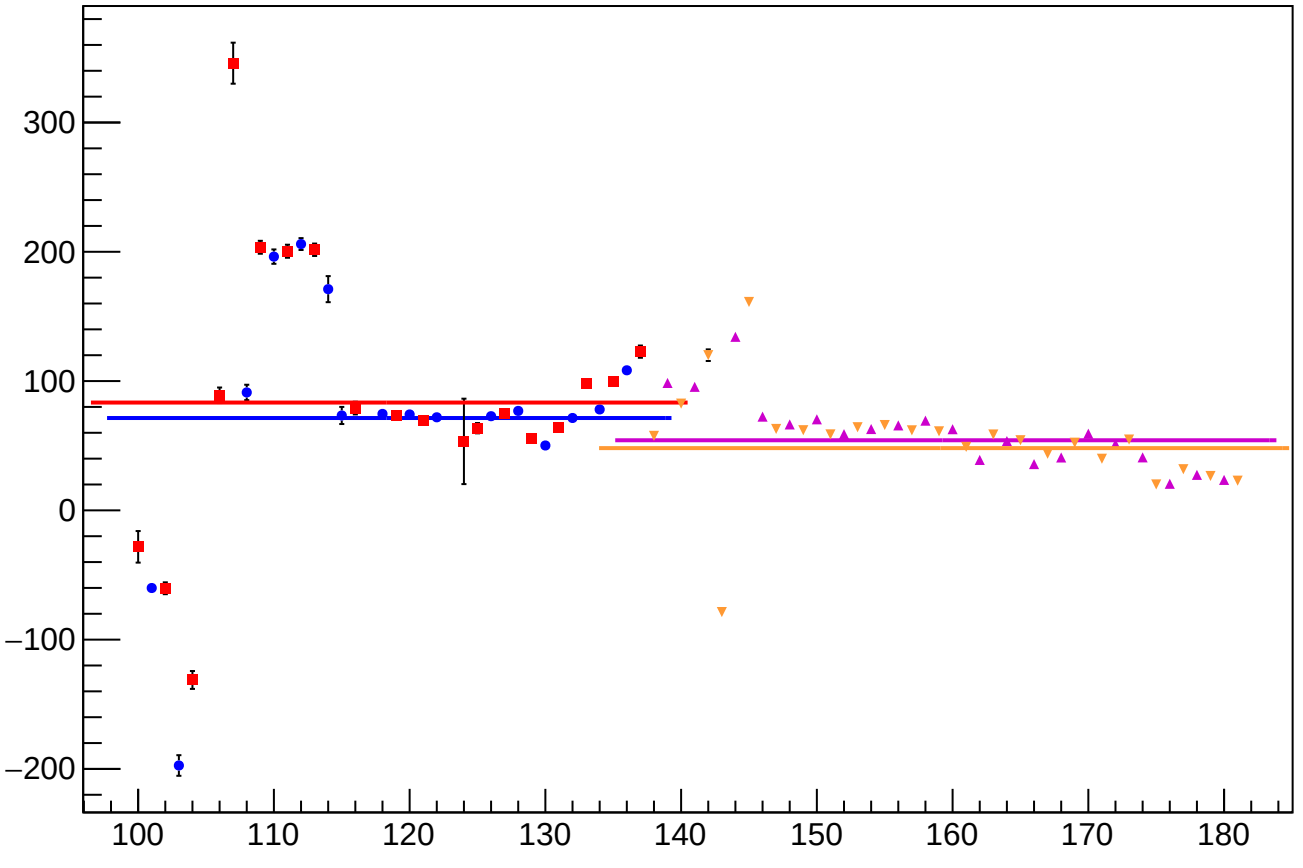
Left: 5.735+/-0.293 $\chi^2$/NDF: 807.9/43

Right: 19.435+/-0.597 $\chi^2$/NDF: 768.0/34

In: 8.829+/-0.376 $\chi^2$/NDF:994.3/36

Out: 7.973+/-0.368 $\chi^2$/NDF:1003.1/41

All: 8.392+/-0.263 $\chi^2$/NDF: 2000.1/78




Right In: 71.421+/-0.931 $\chi^2$/NDF: 4819.6/15

Left Out: 48.139+/-0.534 $\chi^2$/NDF:3883.6/22

Right Out: 83.385+/-0.985 $\chi^2$/NDF: 4297.3/18

Left In: 54.215+/-0.552 $\chi^2$/NDF:2222.0/20

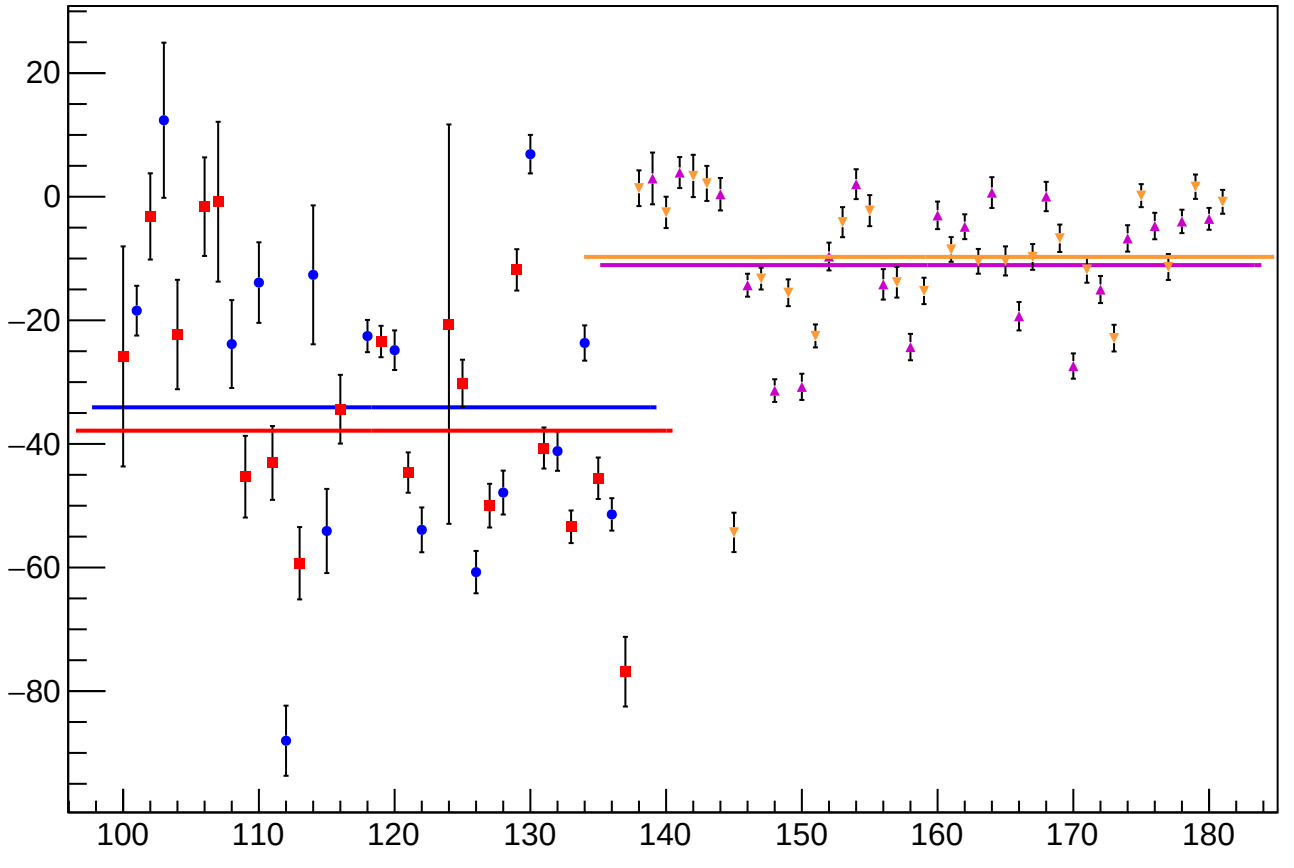
Left: 51.079+/-0.384 $\chi^2$/NDF: 6168.1/43

Right: 77.066+/-0.677 $\chi^2$/NDF: 9194.8/34

In: 58.687+/-0.475 $\chi^2$/NDF:7294.2/36

Out: 56.148+/-0.470 $\chi^2$/NDF:9170.0/41

All: 57.404+/-0.334 $\chi^2$/NDF: 16478.7/78




Right In: -34.077+/-0.942 $\chi^2$/NDF: 511.2/15

Left Out: -9.735+/-0.461 $\chi^2$/NDF:456.6/22

Right Out: -37.855+/-0.994 $\chi^2$/NDF: 274.6/18

Left In: -11.061+/-0.478 $\chi^2$/NDF:538.8/20

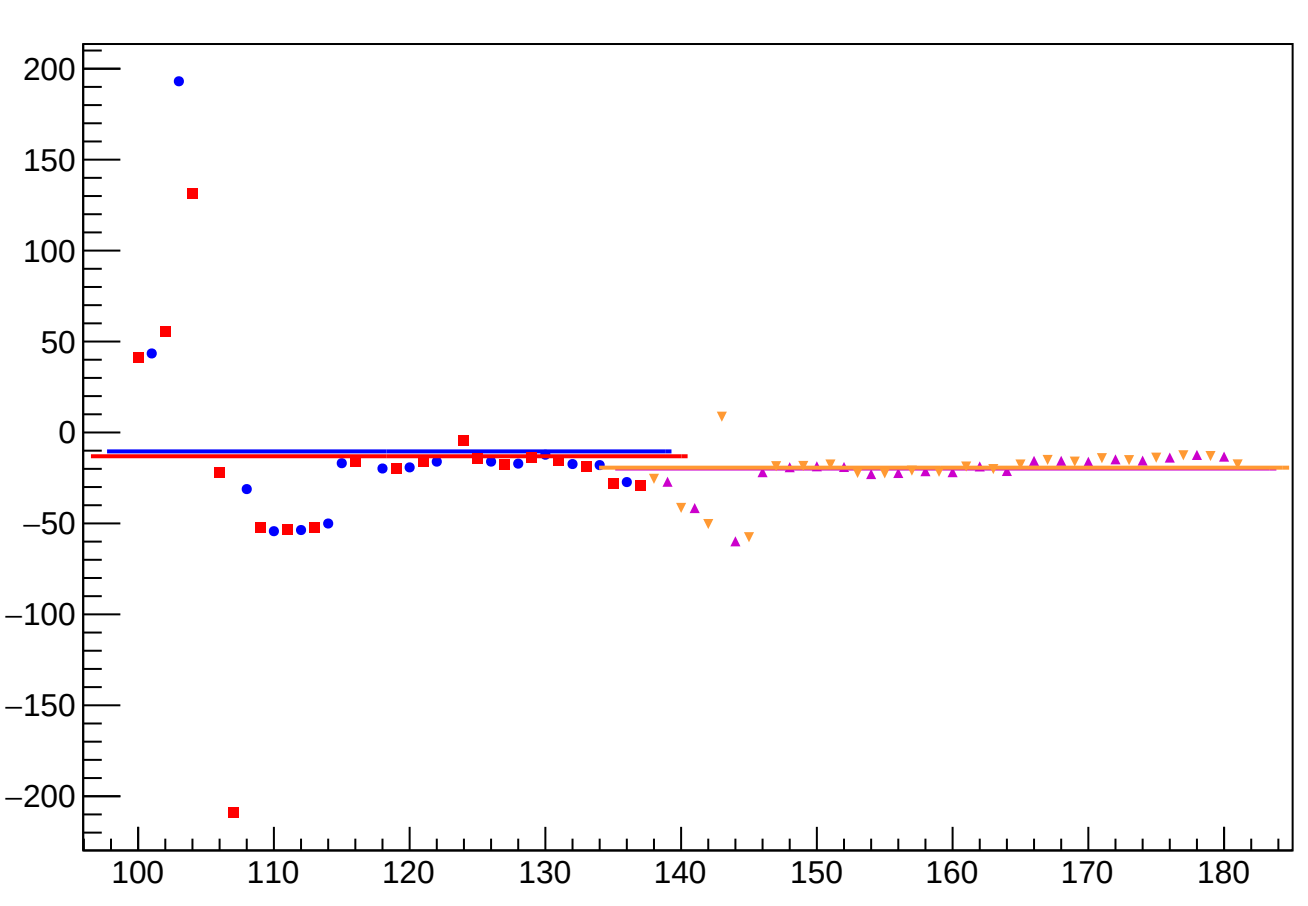
Left: -10.374+/-0.332 $\chi^2$/NDF: 999.4/43

Right: -35.865+/-0.684 $\chi^2$/NDF: 793.4/34

In: -15.767+/-0.426 $\chi^2$/NDF:1524.8/36

Out: -14.715+/-0.418 $\chi^2$/NDF:1390.1/41

All: -15.231+/-0.298 $\chi^2$/NDF: 2917.9/78




Right In: -10.400+/-0.057 $\chi^2$/NDF: 522334.6/15

Left Out: -19.345+/-0.021 $\chi^2$/NDF:225552.6/22

Right Out: -13.074+/-0.063 $\chi^2$/NDF: 449609.3/18

Left In: -19.829+/-0.021 $\chi^2$/NDF:152770.2/20

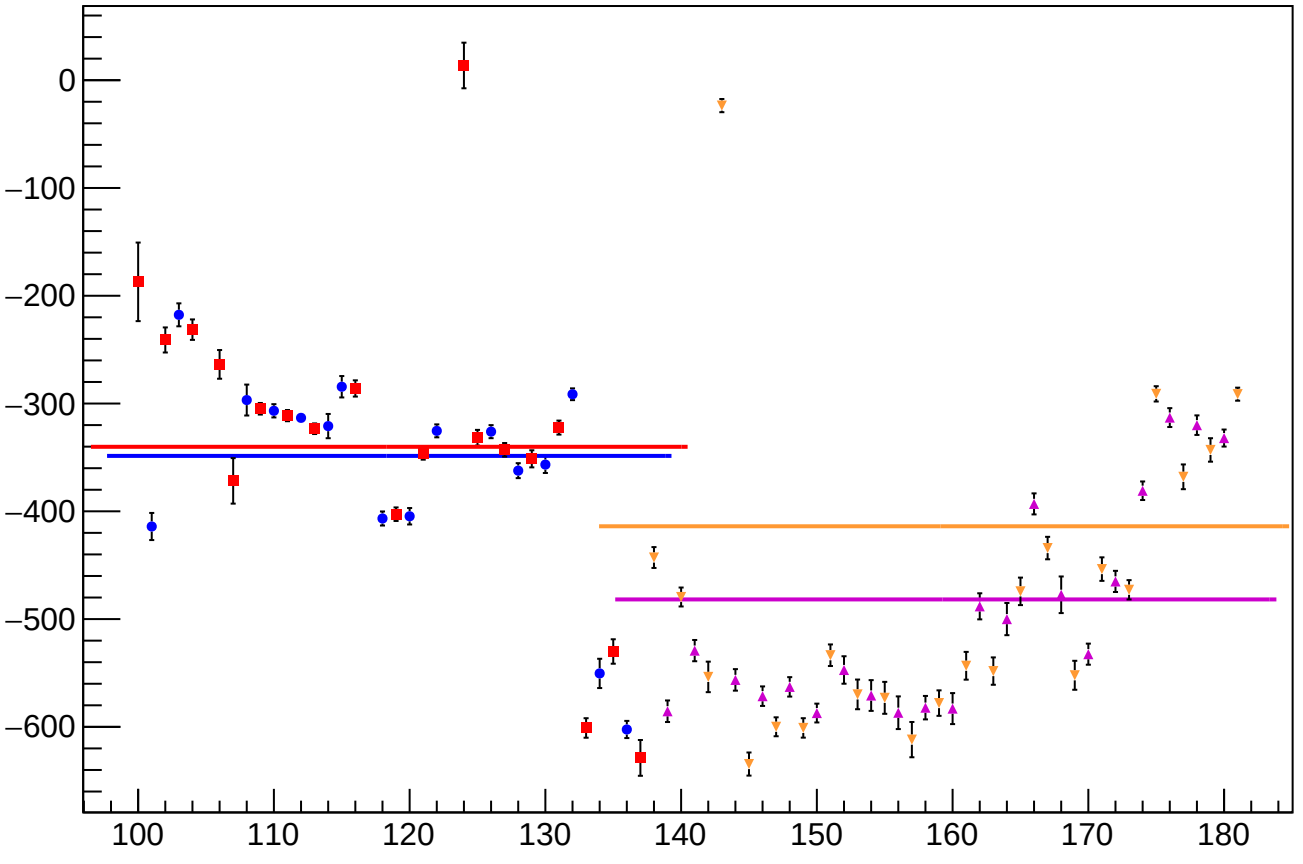
Left: -19.583+/-0.015 $\chi^2$/NDF: 378589.8/43

Right: -11.607+/-0.042 $\chi^2$/NDF: 972944.0/34

In: -18.683+/-0.020 $\chi^2$/NDF:699297.7/36

Out: -18.723+/-0.020 $\chi^2$/NDF:684196.7/41

All: -18.703+/-0.014 $\chi^2$/NDF: 1383496.4/78




Right In: -348.586+/-1.825 $\chi^2$/NDF: 1858.3/15

Left Out: -413.889+/-2.054 $\chi^2$/NDF:7424.8/22

Right Out: -340.144+/-1.759 $\chi^2$/NDF: 2197.1/18

Left In: -481.761+/-2.251 $\chi^2$/NDF:2059.1/20

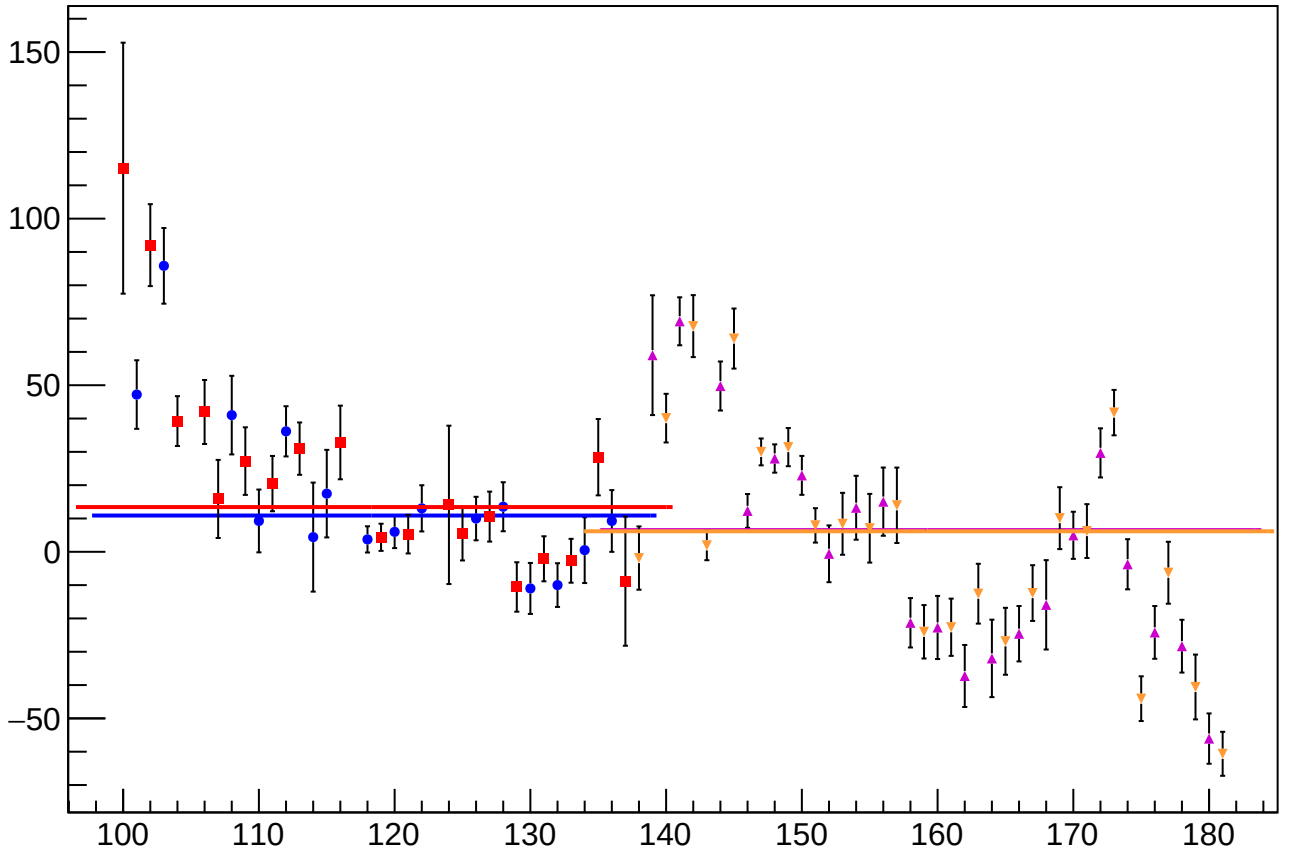
Left: -444.729+/-1.517 $\chi^2$/NDF: 9980.1/43

Right: -344.211+/-1.267 $\chi^2$/NDF: 4066.5/34

In: -401.405+/-1.417 $\chi^2$/NDF:6030.1/36

Out: -371.356+/-1.336 $\chi^2$/NDF:10365.5/41

All: -385.495+/-0.972 $\chi^2$/NDF: 16633.6/78




Right In: 10.888+/-1.843 $\chi^2$/NDF: 98.2/15

Left Out: 6.164+/-1.502 $\chi^2$/NDF:419.3/22

Right Out: 13.427+/-1.854 $\chi^2$/NDF: 112.4/18

Left In: 6.515+/-1.638 $\chi^2$/NDF:343.8/20

Left: 6.324+/-1.107 $\chi^2$/NDF: 763.2/43

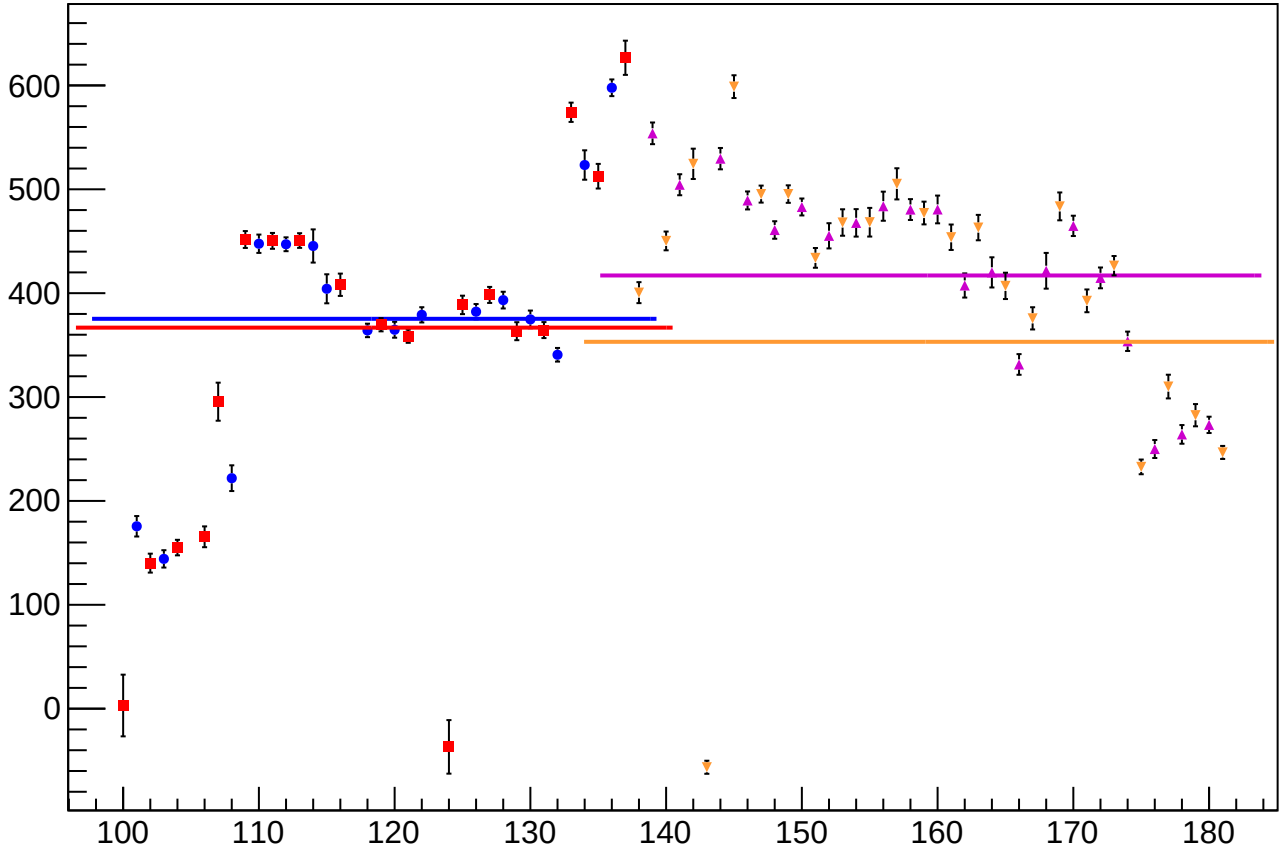
Right: 12.149+/-1.307 $\chi^2$/NDF: 211.6/34

In: 8.445+/-1.224 $\chi^2$/NDF:445.2/36

Out: 9.040+/-1.167 $\chi^2$/NDF:541.0/41

All: 8.757+/-0.845 $\chi^2$/NDF: 986.3/78

# reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 375.321+/-2.103 $\chi^2$/NDF: 2449.5/15

Left Out: 353.177+/-2.041 $\chi^2$/NDF:7024.5/22

Right Out: 366.830+/-2.049 $\chi^2$/NDF: 3541.1/18

Left In: 417.041+/-2.217 $\chi^2$/NDF:1781.2/20

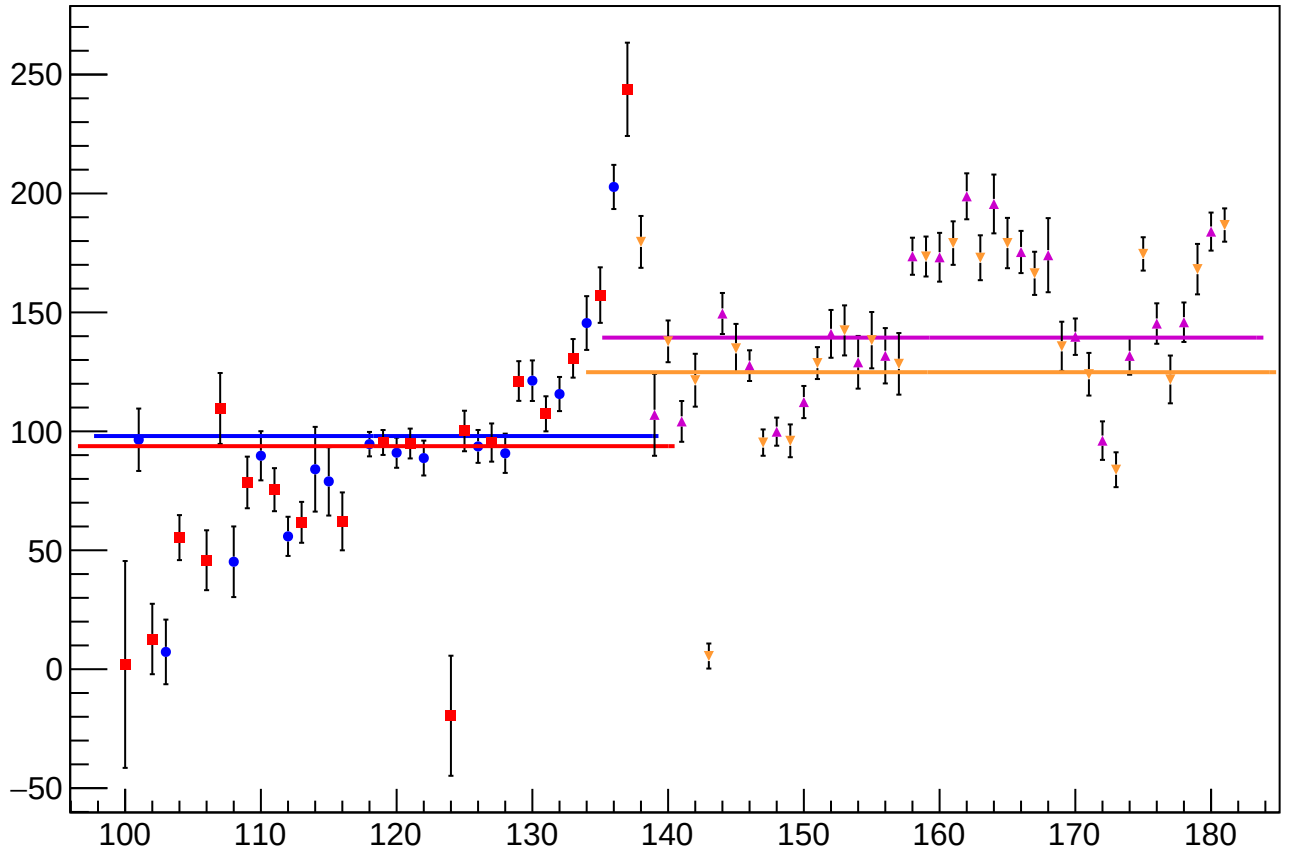
Left: 382.476+/-1.502 $\chi^2$/NDF: 9254.9/43

Right: 370.966+/-1.468 $\chi^2$/NDF: 5998.9/34

In: 395.079+/-1.526 $\chi^2$/NDF:4417.1/36

Out: 359.975+/-1.446 $\chi^2$/NDF:10587.9/41

All: 376.589+/-1.050 $\chi^2$/NDF: 15283.9/78




Right In: 98.021+/-2.144 $\chi^2$/NDF: 249.5/15

Left Out: 124.866+/-1.737 $\chi^2$/NDF:912.7/22

Right Out: 93.771+/-2.138 $\chi^2$/NDF: 237.1/18

Left In: 139.398+/-1.881 $\chi^2$/NDF:259.0/20

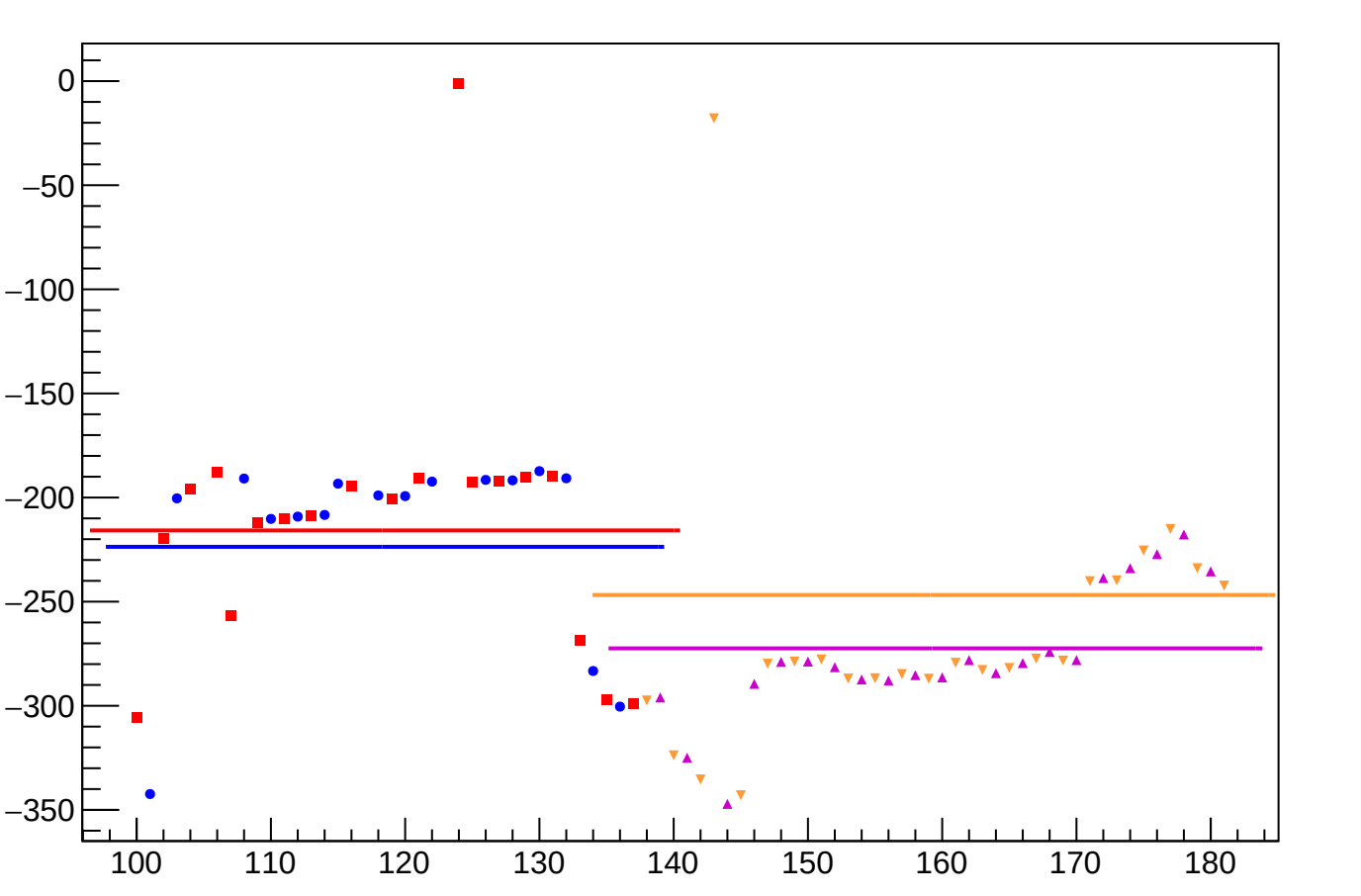
Left: 131.555+/-1.276 $\chi^2$/NDF: 1203.9/43

Right: 95.890+/-1.514 $\chi^2$/NDF: 488.6/34

In: 121.405+/-1.414 $\chi^2$/NDF:718.9/36

Out: 112.506+/-1.348 $\chi^2$/NDF:1277.3/41

All: 116.744+/-0.976 $\chi^2$/NDF: 2016.9/78




Right In: -223.666+/-0.138 $\chi^2$/NDF: 121528.3/15

Left Out: -246.796+/-0.082 $\chi^2$/NDF:986452.5/22

Right Out: -215.797+/-0.134 $\chi^2$/NDF: 81516.6/18

Left In: -272.440+/-0.086 $\chi^2$/NDF:122707.4/20

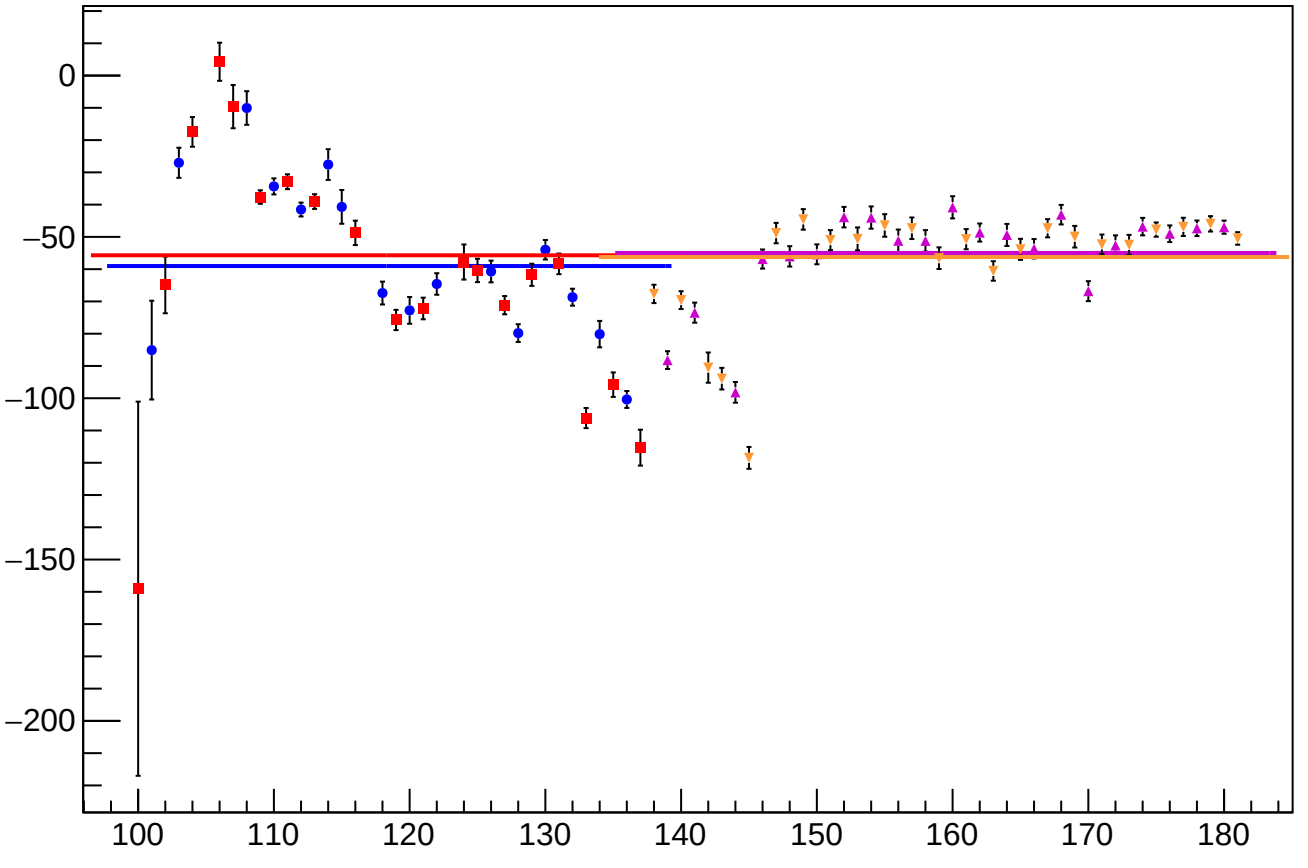
Left: -258.953+/-0.059 $\chi^2$/NDF: 1156044.2/43

Right: -219.617+/-0.096 $\chi^2$/NDF: 204711.3/34

In: -258.863+/-0.073 $\chi^2$/NDF:334005.9/36

Out: -238.446+/-0.070 $\chi^2$/NDF:1106897.4/41

All: -248.189+/-0.050 $\chi^2$/NDF: 1481846.7/78




Right In: -59.030+/-0.829 $\chi^2$/NDF: 727.3/15

Left Out: -56.236+/-0.618 $\chi^2$/NDF:671.8/22

Right Out: -55.701+/-0.790 $\chi^2$/NDF: 1041.1/18

Left In: -54.977+/-0.641 $\chi^2$/NDF:482.1/20

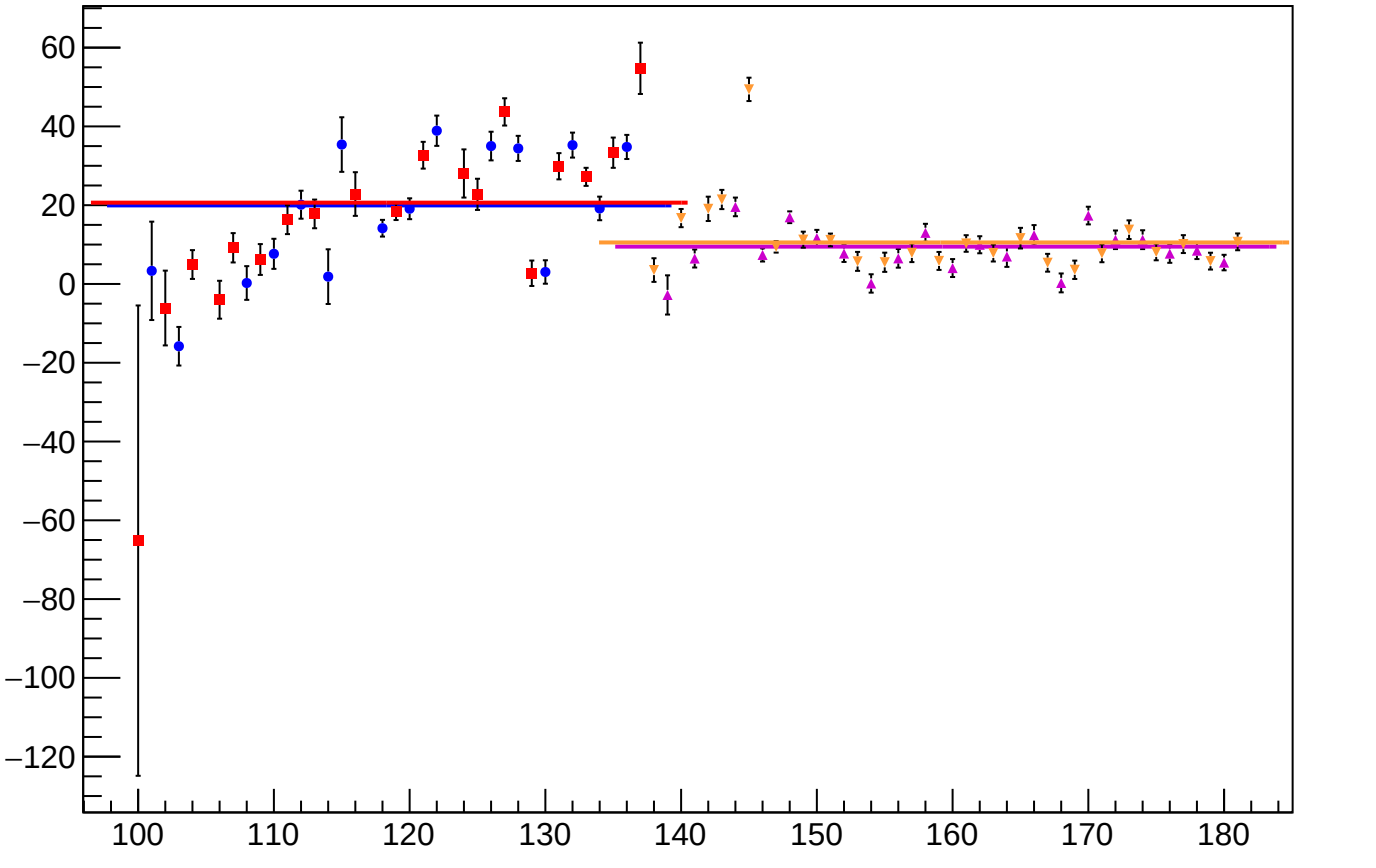
Left: -55.630+/-0.445 $\chi^2$/NDF: 1155.9/43

Right: -57.284+/-0.572 $\chi^2$/NDF: 1776.9/34

In: -56.494+/-0.507 $\chi^2$/NDF:1224.3/36

Out: -56.033+/-0.487 $\chi^2$/NDF:1713.3/41

All: -56.254+/-0.351 $\chi^2$/NDF: 2938.0/78




Right In: 19.946+/-0.867 $\chi^2$/NDF: 247.2/15

Left Out: 10.540+/-0.462 $\chi^2$/NDF:252.1/22

Right Out: 20.643+/-0.844 $\chi^2$/NDF: 224.8/18

Left In: 9.483+/-0.482 $\chi^2$/NDF:115.4/20

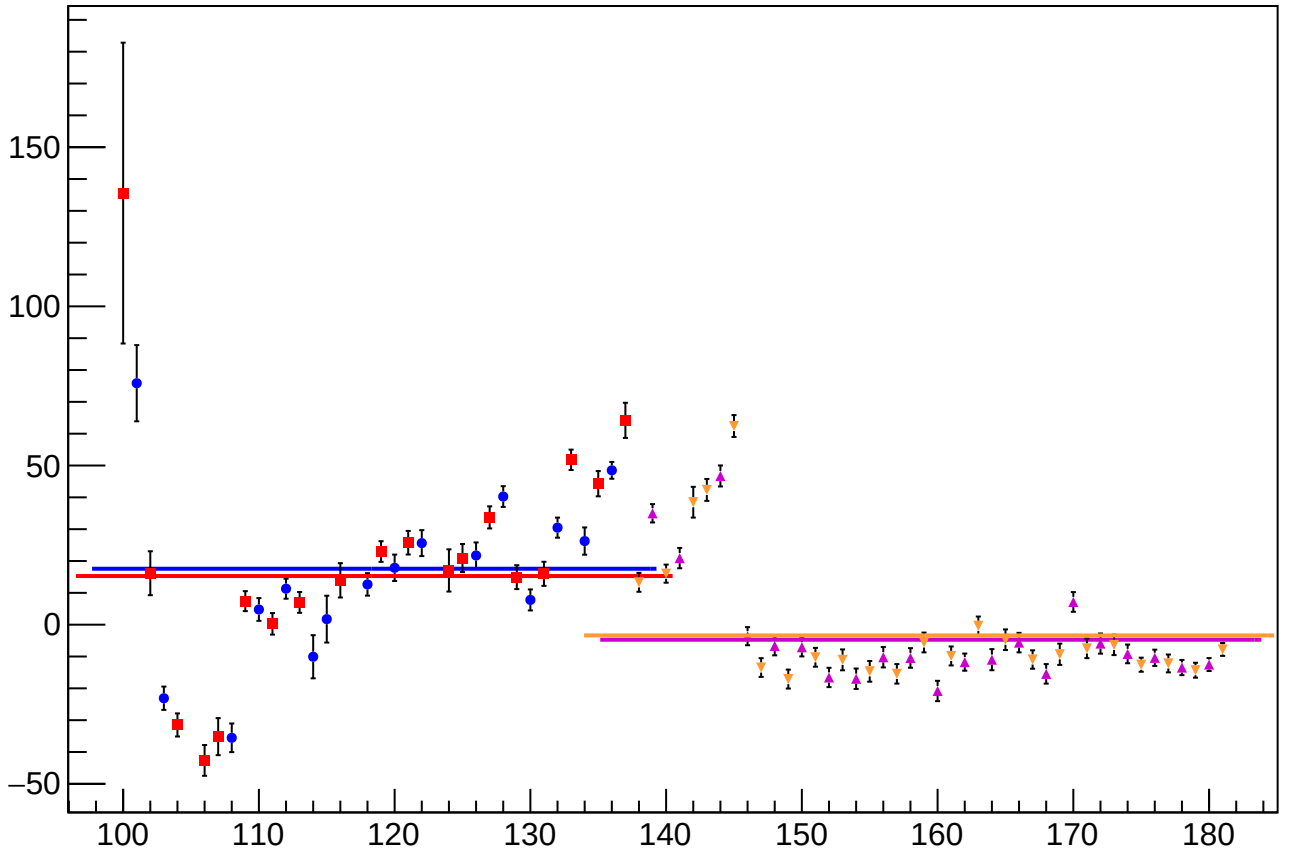
Left: 10.034+/-0.333 $\chi^2$/NDF: 370.0/43

Right: 20.304+/-0.605 $\chi^2$/NDF: 472.3/34

In: 11.951+/-0.421 $\chi^2$/NDF:473.8/36

Out: 12.869+/-0.405 $\chi^2$/NDF:587.1/41

All: 12.428+/-0.292 $\chi^2$/NDF: 1063.4/78




Right In: 17.574+/-0.957 $\chi^2$/NDF: 546.2/15

Left Out: -3.377+/-0.610 $\chi^2$/NDF:840.0/22

Right Out: 15.283+/-0.934 $\chi^2$/NDF: 730.0/18

Left In: -4.730+/-0.631 $\chi^2$/NDF:633.9/20

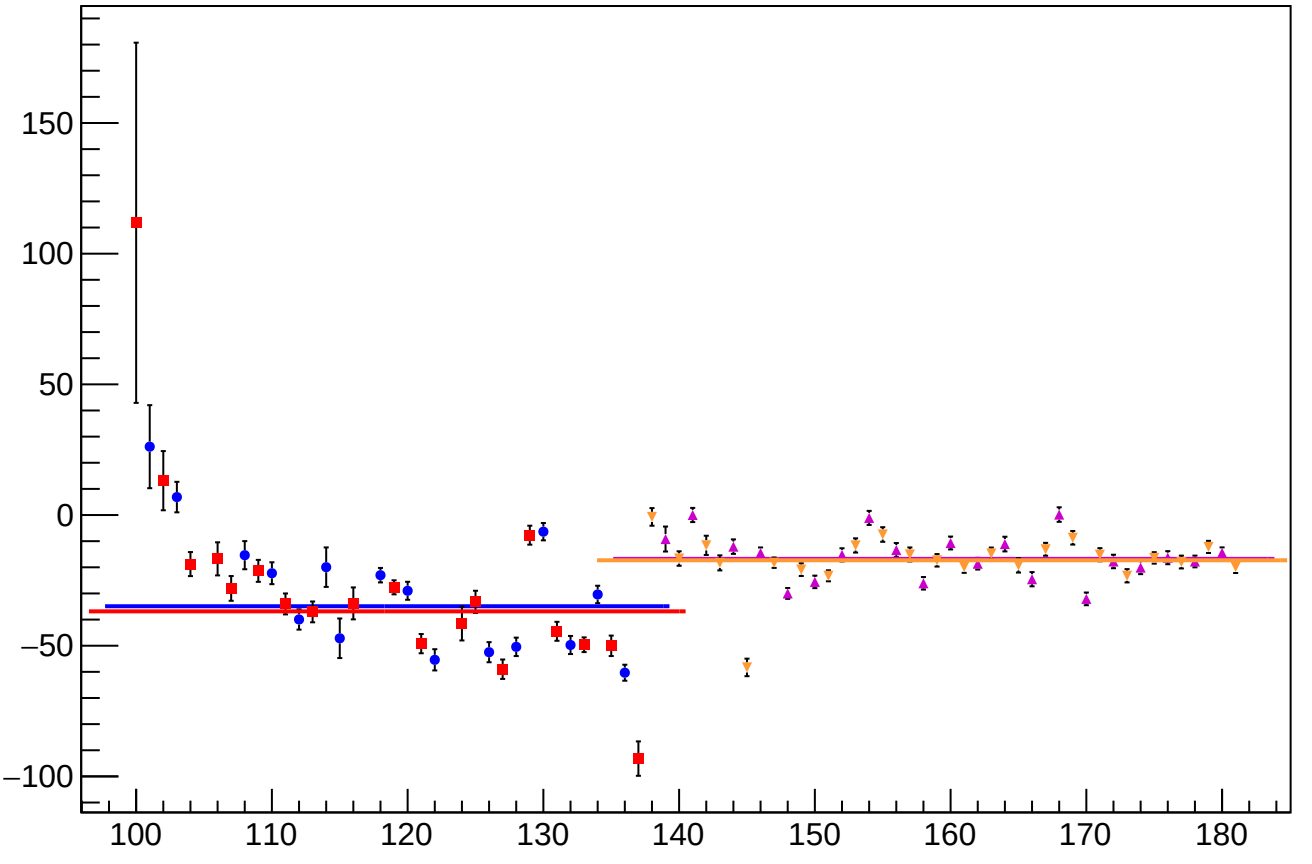
Left: -4.031+/-0.439 $\chi^2$/NDF: 1476.3/43

Right: 16.401+/-0.668 $\chi^2$/NDF: 1279.2/34

In: 2.035+/-0.527 $\chi^2$/NDF:1558.9/36

Out: 2.204+/-0.511 $\chi^2$/NDF:1849.8/41

All: 2.122+/-0.367 $\chi^2$/NDF: 3408.8/78




Right In: -34.899+/-0.990 $\chi^2$/NDF: 346.6/15

Left Out: -17.310+/-0.525 $\chi^2$/NDF:233.4/22

Right Out: -36.853+/-0.970 $\chi^2$/NDF: 301.4/18

Left In: -16.774+/-0.545 $\chi^2$/NDF:249.2/20

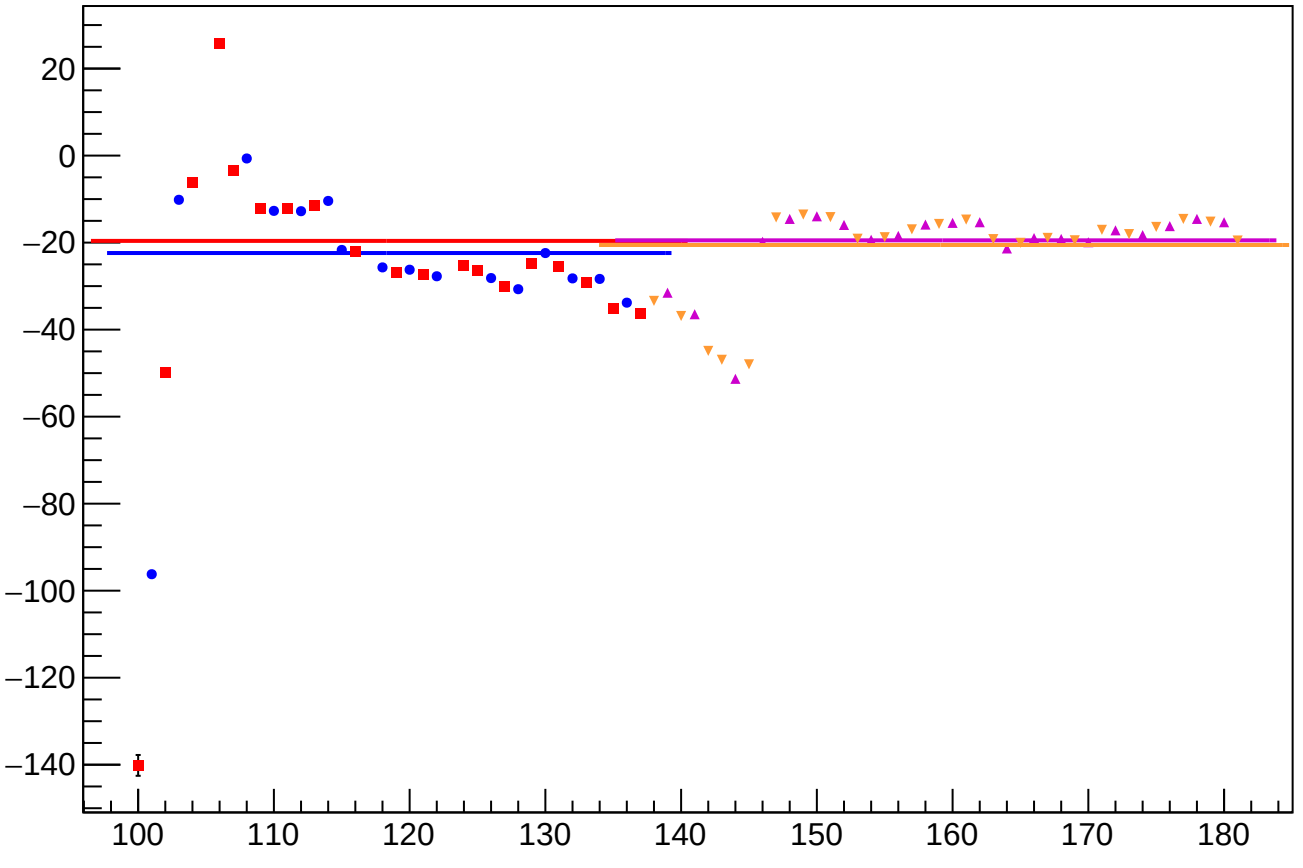
Left: -17.052+/-0.378 $\chi^2$/NDF: 483.0/43

Right: -35.897+/-0.693 $\chi^2$/NDF: 650.0/34

In: -20.990+/-0.478 $\chi^2$/NDF:852.9/36

Out: -21.744+/-0.462 $\chi^2$/NDF:849.0/41

All: -21.380+/-0.332 $\chi^2$/NDF: 1703.1/78




Right In: -22.394+/-0.058 $\chi^2$/NDF: 46519.7/15

Left Out: -20.549+/-0.024 $\chi^2$/NDF:144633.5/22

Right Out: -19.605+/-0.059 $\chi^2$/NDF: 83865.7/18

Left In: -19.478+/-0.024 $\chi^2$/NDF:92328.2/20

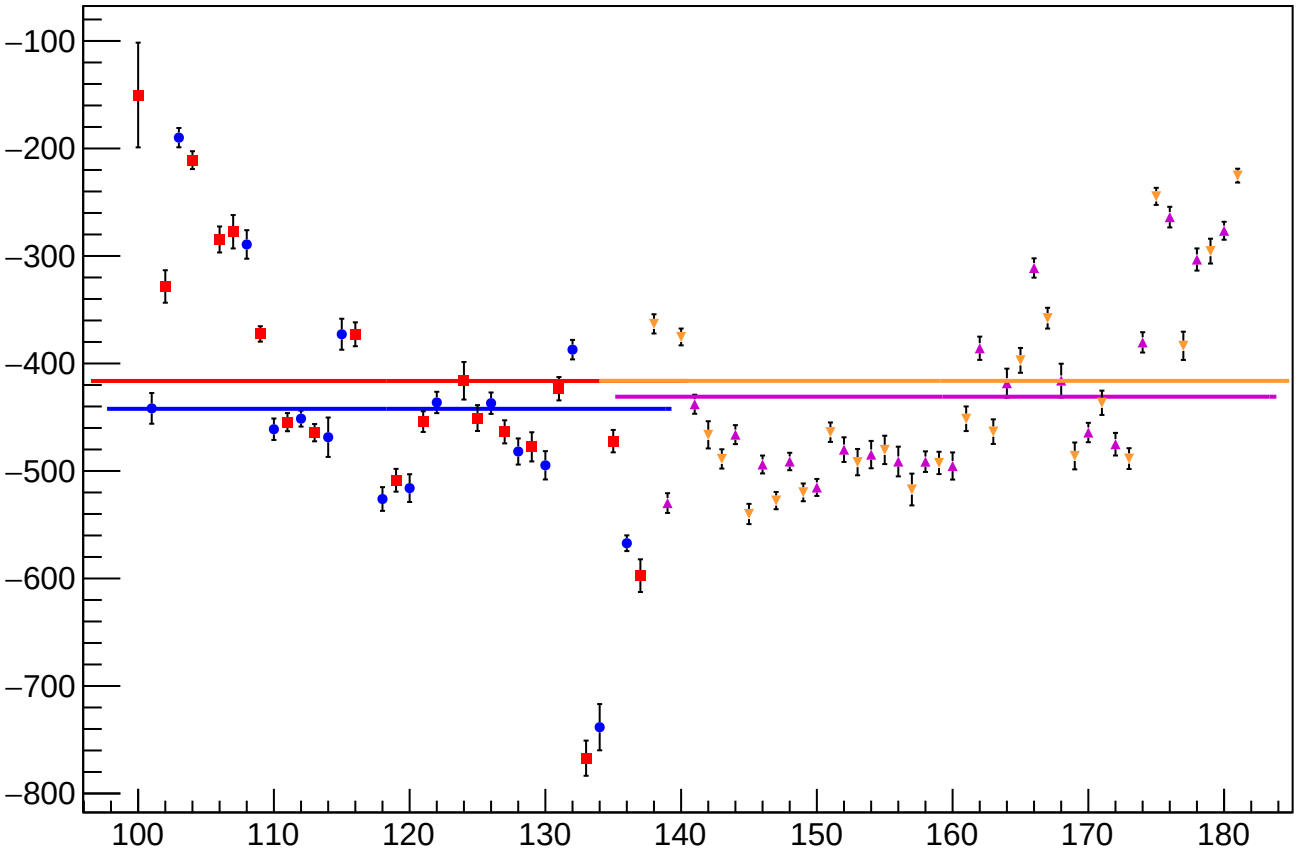
Left: -20.023+/-0.017 $\chi^2$/NDF: 237964.8/43

Right: -21.027+/-0.042 $\chi^2$/NDF: 131507.1/34

In: -19.905+/-0.022 $\chi^2$/NDF:140984.0/36

Out: -20.420+/-0.022 $\chi^2$/NDF:228716.7/41

All: -20.165+/-0.016 $\chi^2$/NDF: 369971.1/78




Right In: -442.182+/-2.682 $\chi^2$/NDF: 1589.1/15

Left Out: -416.172+/-2.046 $\chi^2$/NDF:2470.2/22

Right Out: -416.259+/-2.523 $\chi^2$/NDF: 1753.8/18

Left In: -430.923+/-2.147 $\chi^2$/NDF:1534.4/20

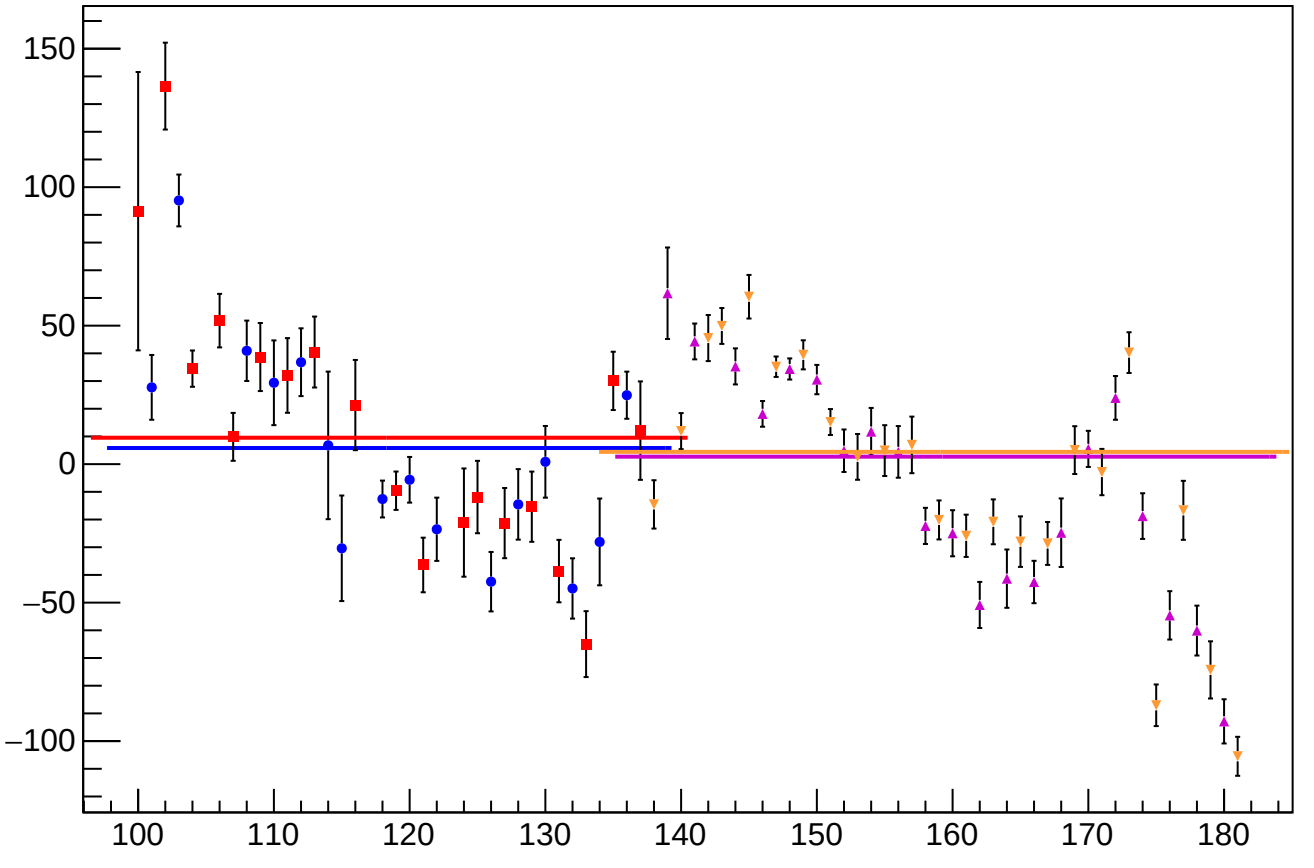
Left: -423.190+/-1.481 $\chi^2$/NDF: 4029.3/43

Right: -428.429+/-1.837 $\chi^2$/NDF: 3392.5/34

In: -435.321+/-1.676 $\chi^2$/NDF:3134.2/36

Out: -416.207+/-1.589 $\chi^2$/NDF:4224.1/41

All: -425.254+/-1.153 $\chi^2$/NDF: 7426.8/78




Right In: 5.824+/-2.728 $\chi^2$/NDF: 188.1/15

Left Out: 4.428+/-1.464 $\chi^2$/NDF:797.2/22

Right Out: 9.536+/-2.556 $\chi^2$/NDF: 222.2/18

Left In: 2.699+/-1.535 $\chi^2$/NDF:561.7/20

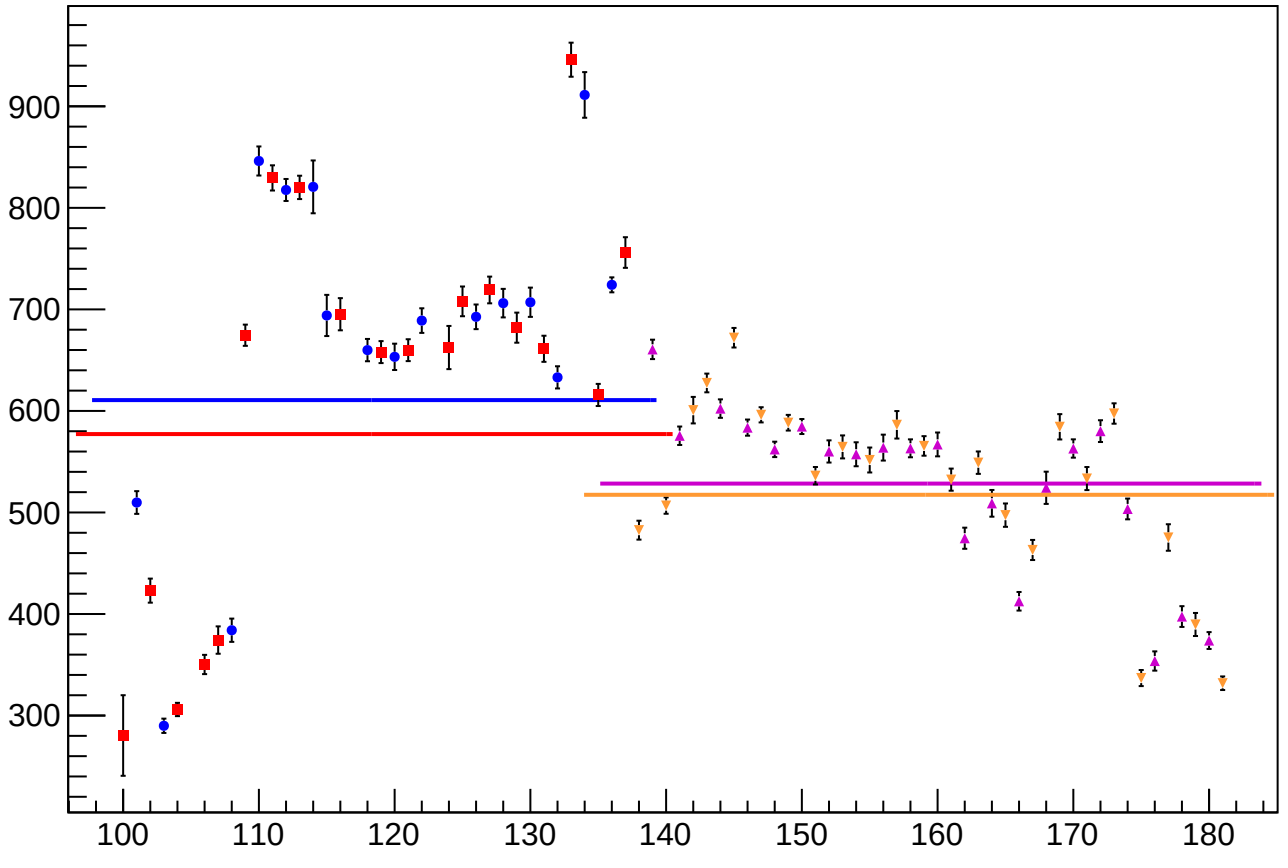
Left: 3.604+/-1.059 $\chi^2$/NDF: 1359.6/43

Right: 7.800+/-1.865 $\chi^2$/NDF: 411.3/34

In: 3.450+/-1.338 $\chi^2$/NDF:750.9/36

Out: 5.689+/-1.271 $\chi^2$/NDF:1022.3/41

All: 4.627+/-0.921 $\chi^2$/NDF: 1774.7/78




Right In: 610.665+/-2.892 $\chi^2$/NDF: 3892.6/15

Left Out: 517.409+/-2.022 $\chi^2$/NDF:2295.2/22

Right Out: 577.205+/-2.755 $\chi^2$/NDF: 4800.3/18

Left In: 528.443+/-2.108 $\chi^2$/NDF:1541.1/20

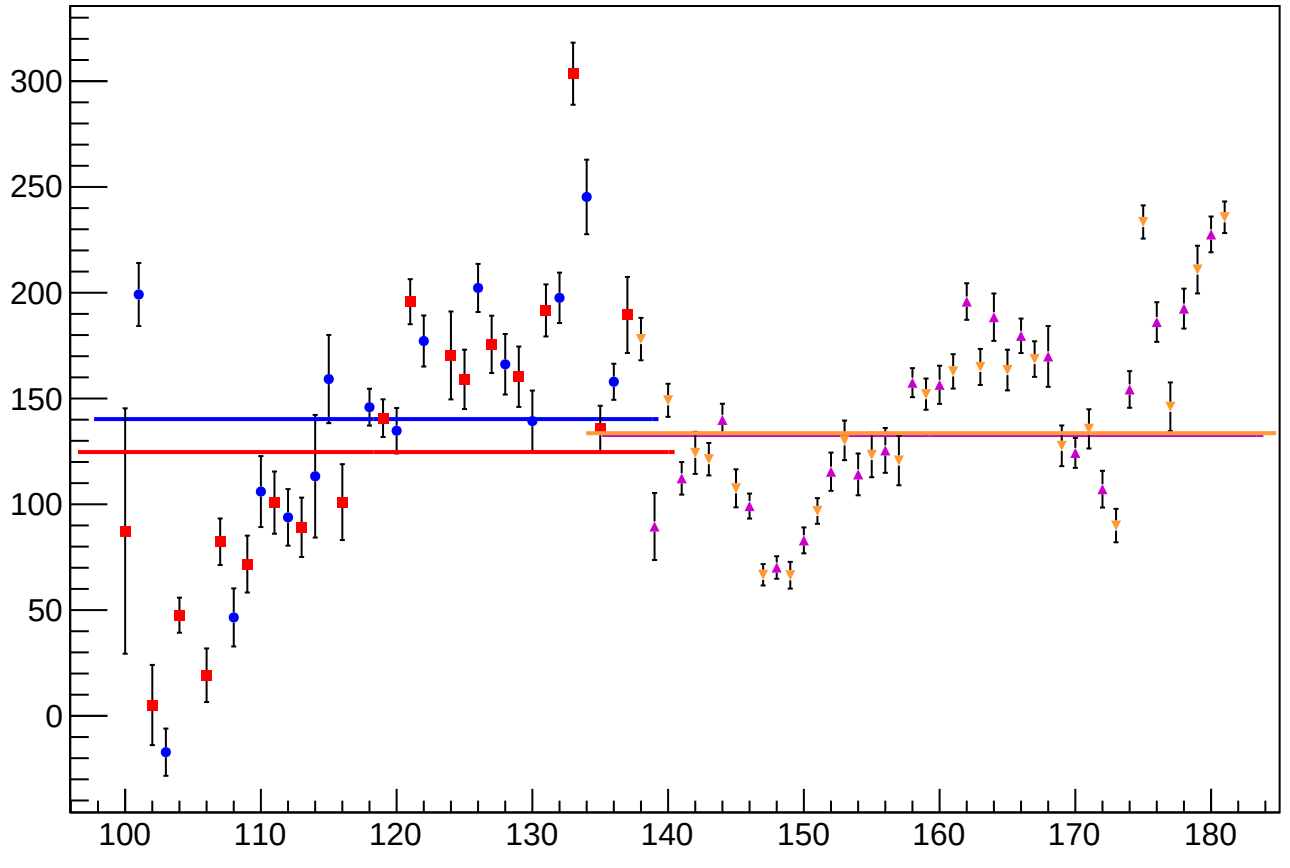
Left: 522.697+/-1.459 $\chi^2$/NDF: 3850.5/43

Right: 593.122+/-1.995 $\chi^2$/NDF: 8763.0/34

In: 556.963+/-1.703 $\chi^2$/NDF:5961.4/36

Out: 538.341+/-1.630 $\chi^2$/NDF:7401.7/41

All: 547.242+/-1.178 $\chi^2$/NDF: 13425.5/78




Right In: 140.278+/-3.151 $\chi^2$/NDF: 385.4/15

Left Out: 133.621+/-1.702 $\chi^2$/NDF:849.9/22

Right Out: 124.697+/-2.979 $\chi^2$/NDF: 508.5/18

Left In: 132.760+/-1.773 $\chi^2$/NDF:612.9/20

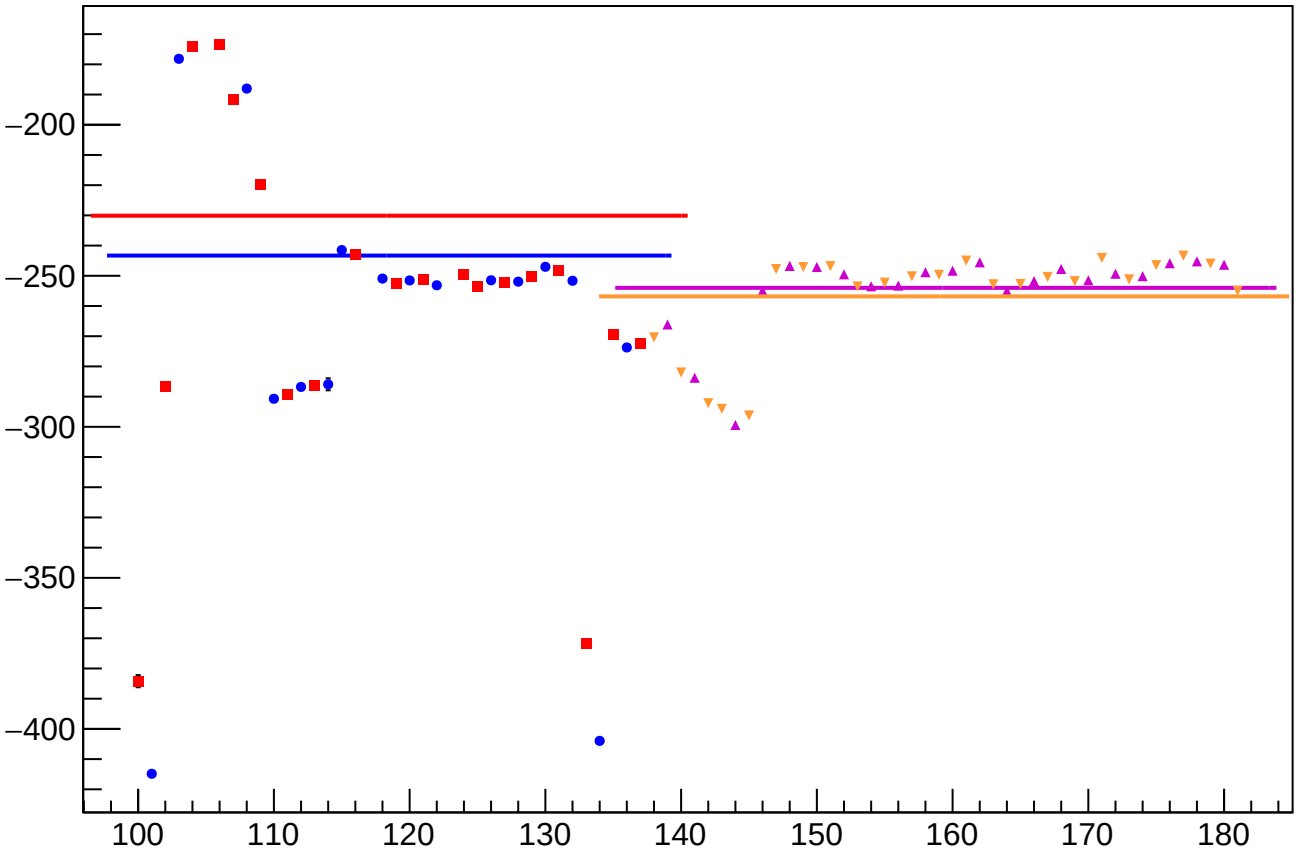
Left: 133.208+/-1.228 $\chi^2$/NDF: 1463.0/43

Right: 132.049+/-2.165 $\chi^2$/NDF: 906.8/34

In: 134.568+/-1.545 $\chi^2$/NDF:1002.6/36

Out: 131.424+/-1.478 $\chi^2$/NDF:1365.2/41

All: 132.926+/-1.068 $\chi^2$/NDF: 2370.0/78




Right In: -243.308+/-0.163 $\chi^2$/NDF: 173487.9/15

Left Out: -256.822+/-0.080 $\chi^2$/NDF:39009.7/22

Right Out: -230.109+/-0.157 $\chi^2$/NDF: 102451.2/18

Left In: -253.988+/-0.081 $\chi^2$/NDF:23948.0/20

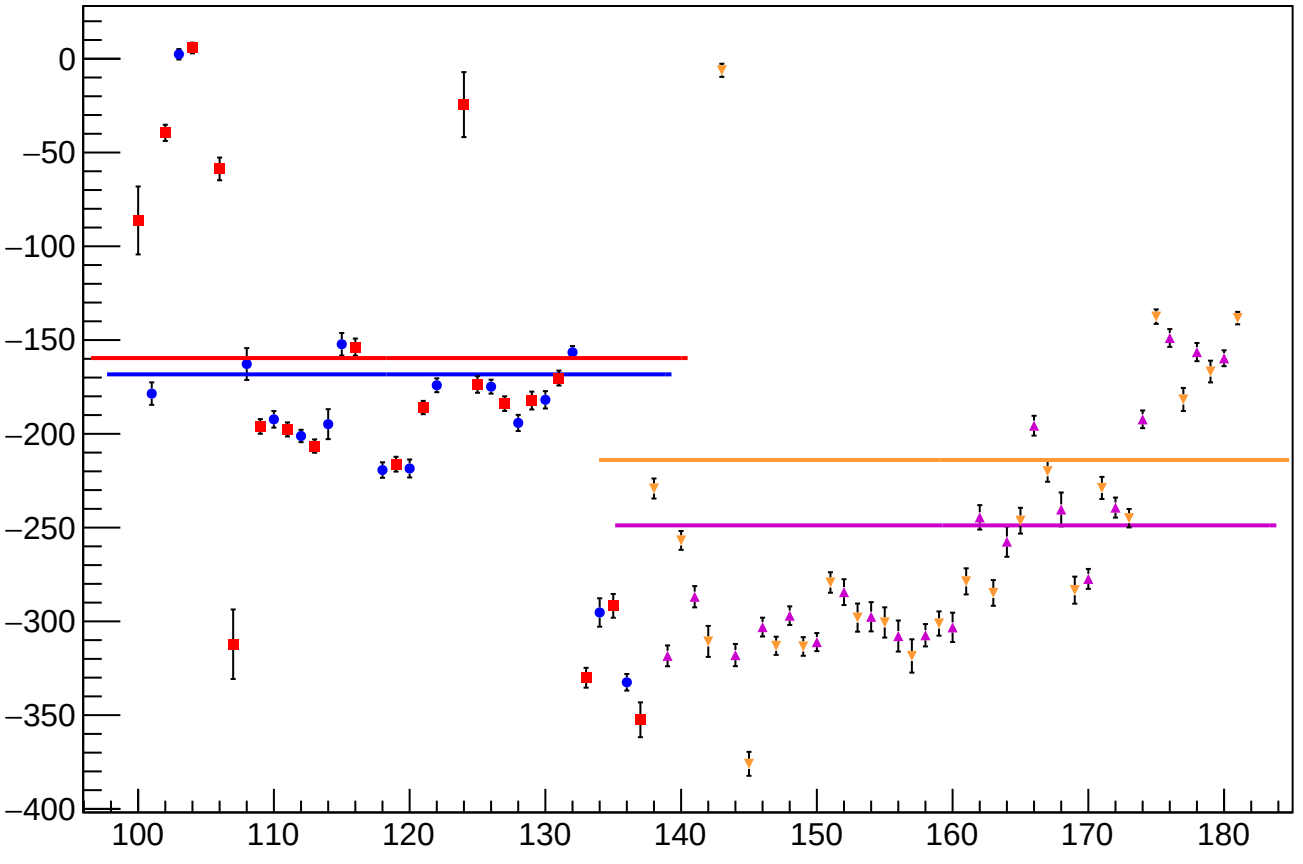
Left: -255.427+/-0.057 $\chi^2$/NDF: 63575.1/43

Right: -236.496+/-0.113 $\chi^2$/NDF: 279343.3/34

In: -251.850+/-0.073 $\chi^2$/NDF:200890.0/36

Out: -251.334+/-0.071 $\chi^2$/NDF:164355.3/41

All: -251.587+/-0.051 $\chi^2$/NDF: 365270.9/78




Right In: -168.291+/-1.076 $\chi^2$/NDF: 5907.6/15

Left Out: -213.927+/-1.133 $\chi^2$/NDF:7246.1/22

Right Out: -159.602+/-1.042 $\chi^2$/NDF: 7197.9/18

Left In: -248.812+/-1.233 $\chi^2$/NDF:2507.8/20

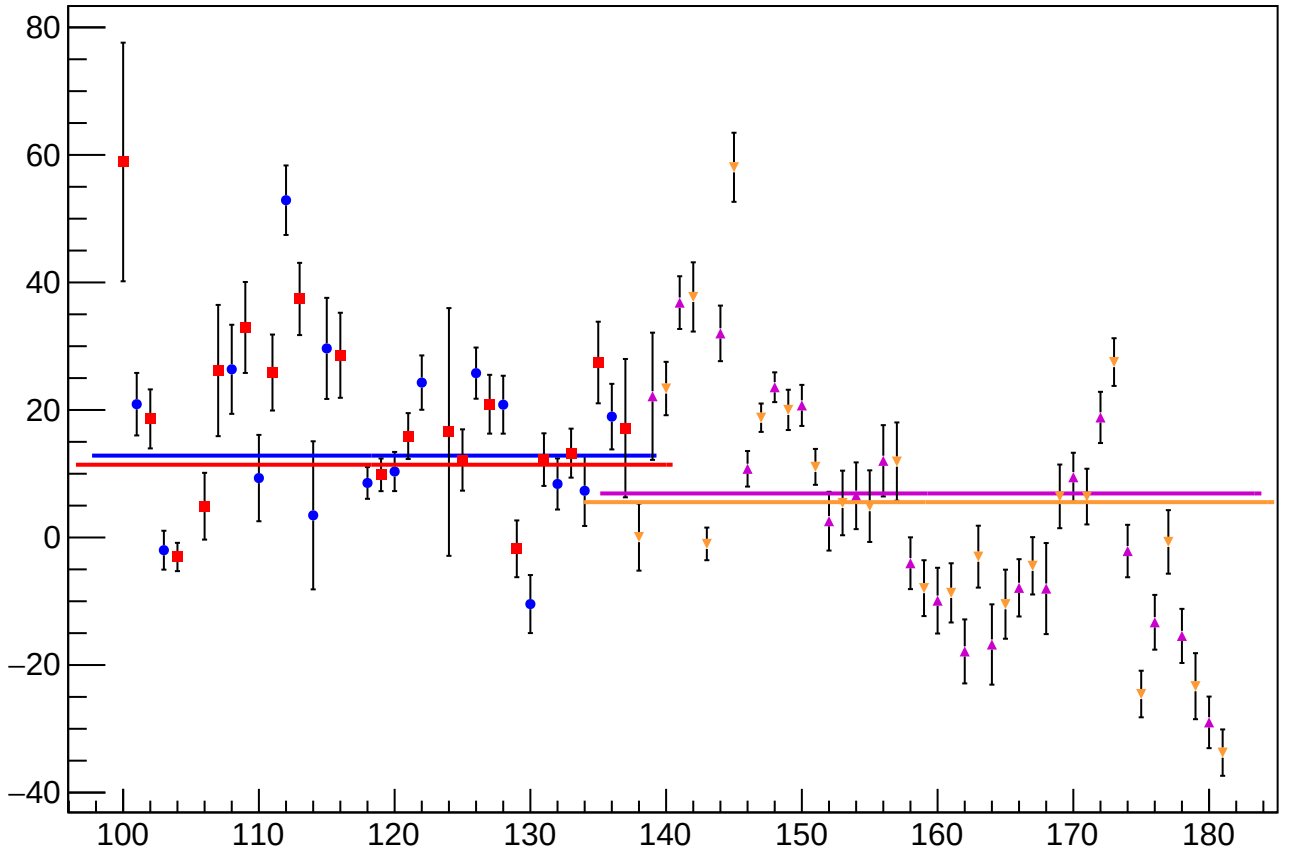
Left: -229.902+/-0.834 $\chi^2$/NDF: 10187.7/43

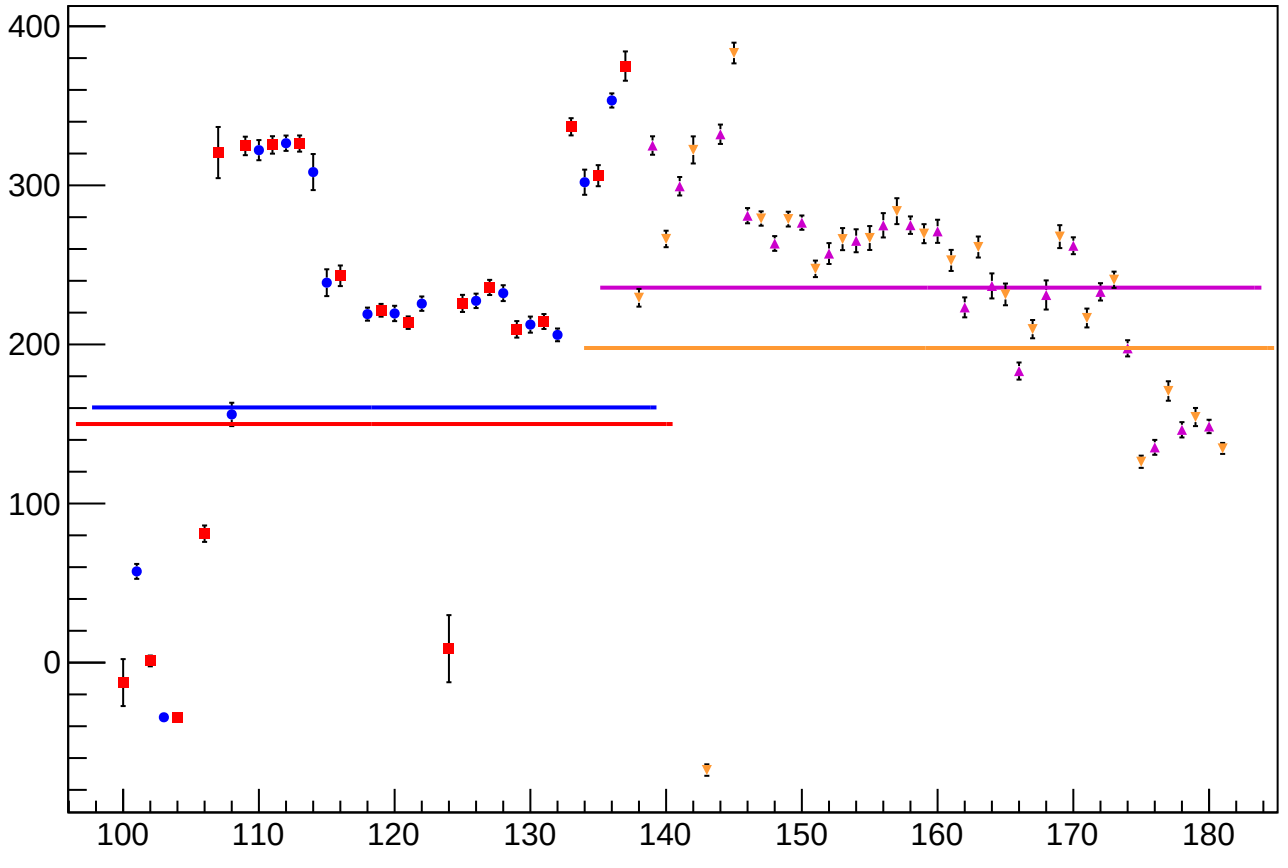
Right: -163.809+/-0.749 $\chi^2$/NDF: 13139.1/34

In: -203.094+/-0.811 $\chi^2$/NDF:10836.9/36

Out: -184.497+/-0.767 $\chi^2$/NDF:15688.8/41

All: -193.284+/-0.557 $\chi^2$/NDF: 26803.3/78


reg_asym_atl_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
100
110
120
130
140
150
160
170
180
Right In: 12.842+/-1.076 χ²/NDF: 143.7/15
Left Out: 5.544+/-0.829 χ²/NDF:503.6/22
Right Out: 11.414+/-1.035 χ²/NDF: 119.6/18
Left In: 6.908+/-0.899 χ²/NDF:375.2/20
Left: 6.170+/-0.609 χ²/NDF: 880.0/43
Right: 12.100+/-0.746 χ²/NDF: 264.2/34
In: 9.346+/-0.690 χ²/NDF:536.8/36
Out: 7.836+/-0.647 χ²/NDF:642.8/41
All: 8.542+/-0.472 χ²/NDF: 1182.1/78




Right In: 160.407+/-1.139 $\chi^2$/NDF: 13949.8/15

Left Out: 197.768+/-1.125 $\chi^2$/NDF:8913.9/22

Right Out: 149.974+/-1.107 $\chi^2$/NDF: 16265.2/18

Left In: 235.695+/-1.214 $\chi^2$/NDF:2358.8/20

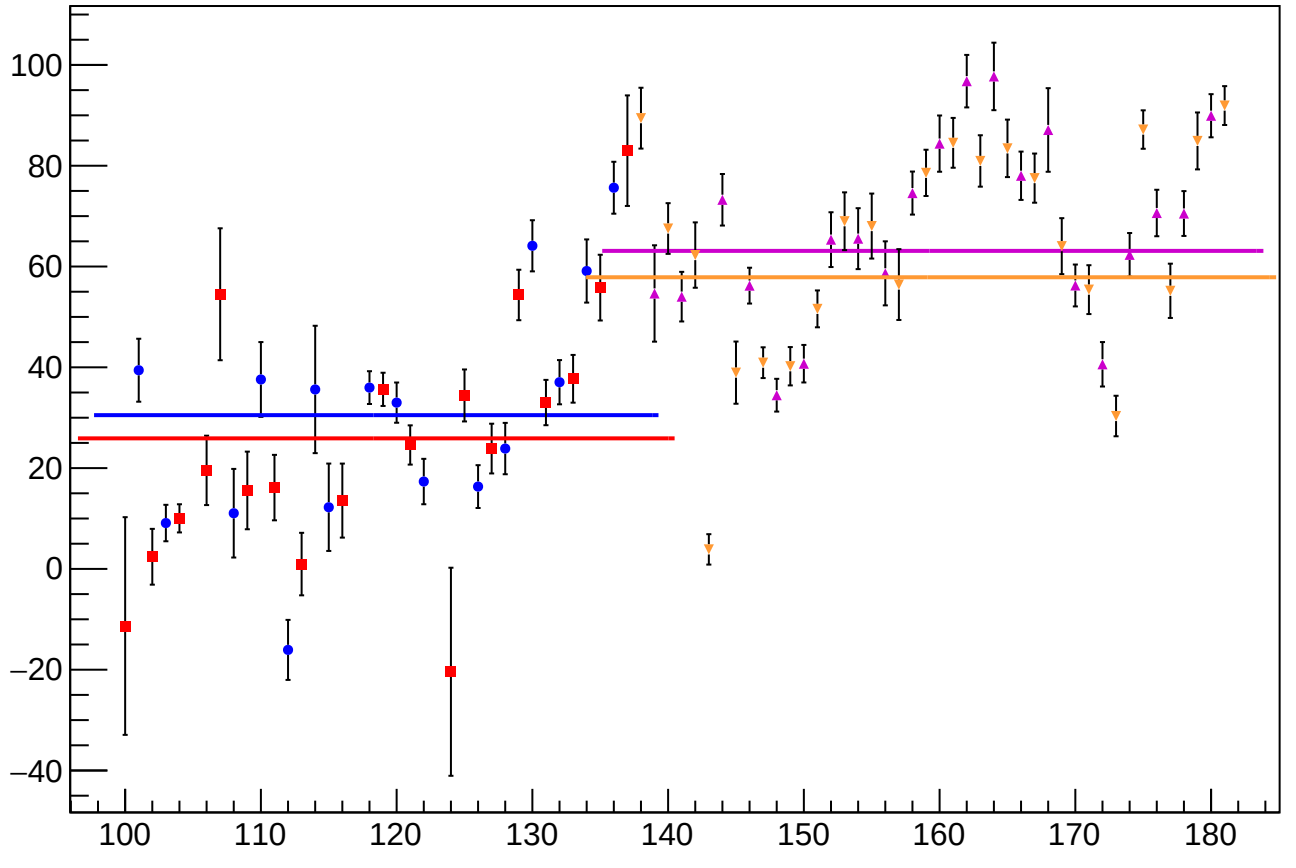
Left: 215.293+/-0.825 $\chi^2$/NDF: 11797.7/43

Right: 155.041+/-0.794 $\chi^2$/NDF: 30258.1/34

In: 195.652+/-0.831 $\chi^2$/NDF:18354.0/36

Out: 173.476+/-0.789 $\chi^2$/NDF:26096.1/41

All: 183.994+/-0.572 $\chi^2$/NDF: 44824.8/78




Right In: 30.510+/-1.255 $\chi^2$/NDF: 276.9/15

Left Out: 57.869+/-0.957 $\chi^2$/NDF:737.9/22

Right Out: 25.903+/-1.213 $\chi^2$/NDF: 187.8/18

Left In: 63.104+/-1.031 $\chi^2$/NDF:308.2/20

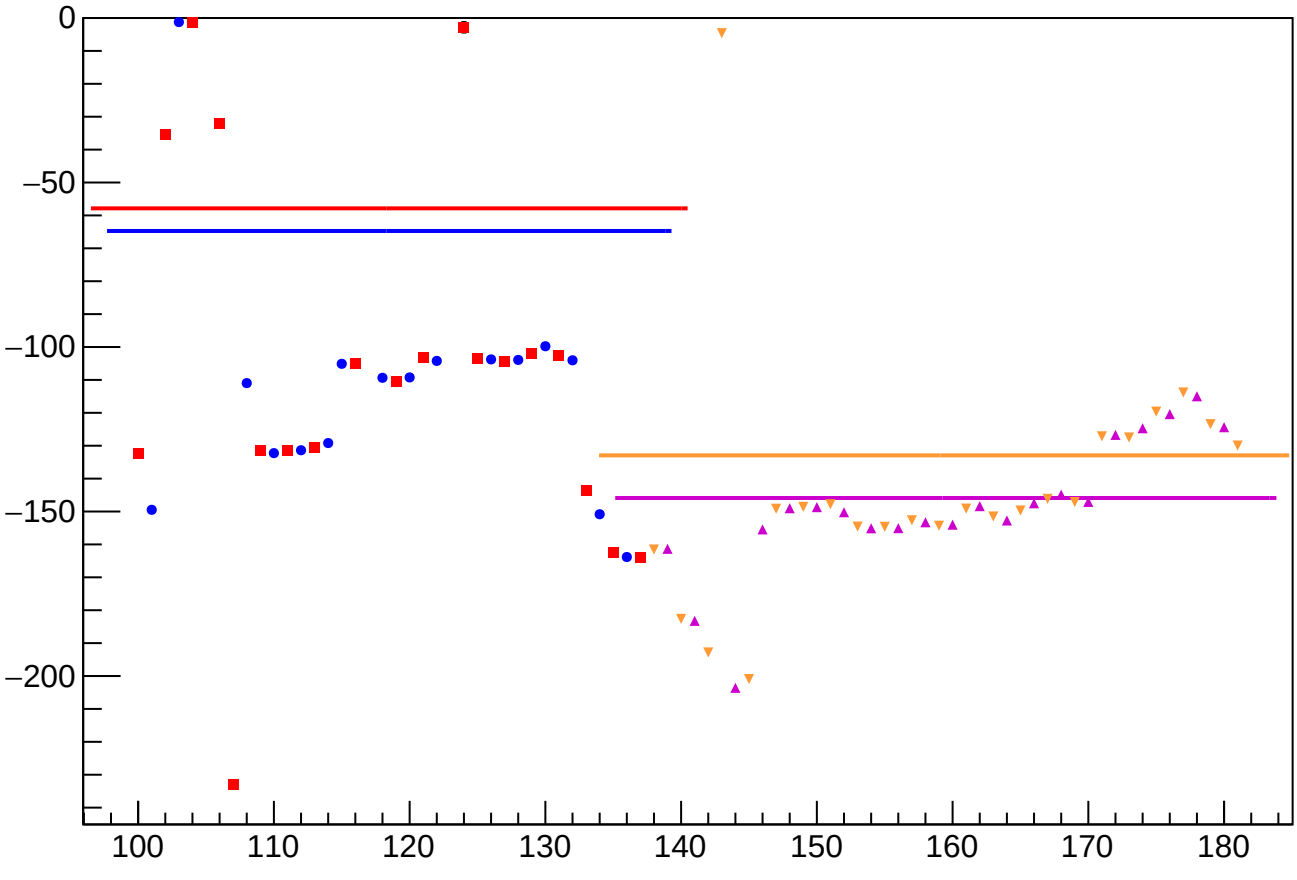
Left: 60.293+/-0.701 $\chi^2$/NDF: 1059.9/43

Right: 28.129+/-0.872 $\chi^2$/NDF: 471.7/34

In: 49.969+/-0.796 $\chi^2$/NDF:988.2/36

Out: 45.600+/-0.752 $\chi^2$/NDF:1353.5/41

All: 47.658+/-0.547 $\chi^2$/NDF: 2357.6/78




Right In: -64.726+/-0.064 $\chi^2$/NDF: 1044441.7/15

Left Out: -132.933+/-0.045 $\chi^2$/NDF:983622.2/22

Right Out: -57.855+/-0.062 $\chi^2$/NDF: 875795.9/18

Left In: -145.888+/-0.047 $\chi^2$/NDF:157434.1/20

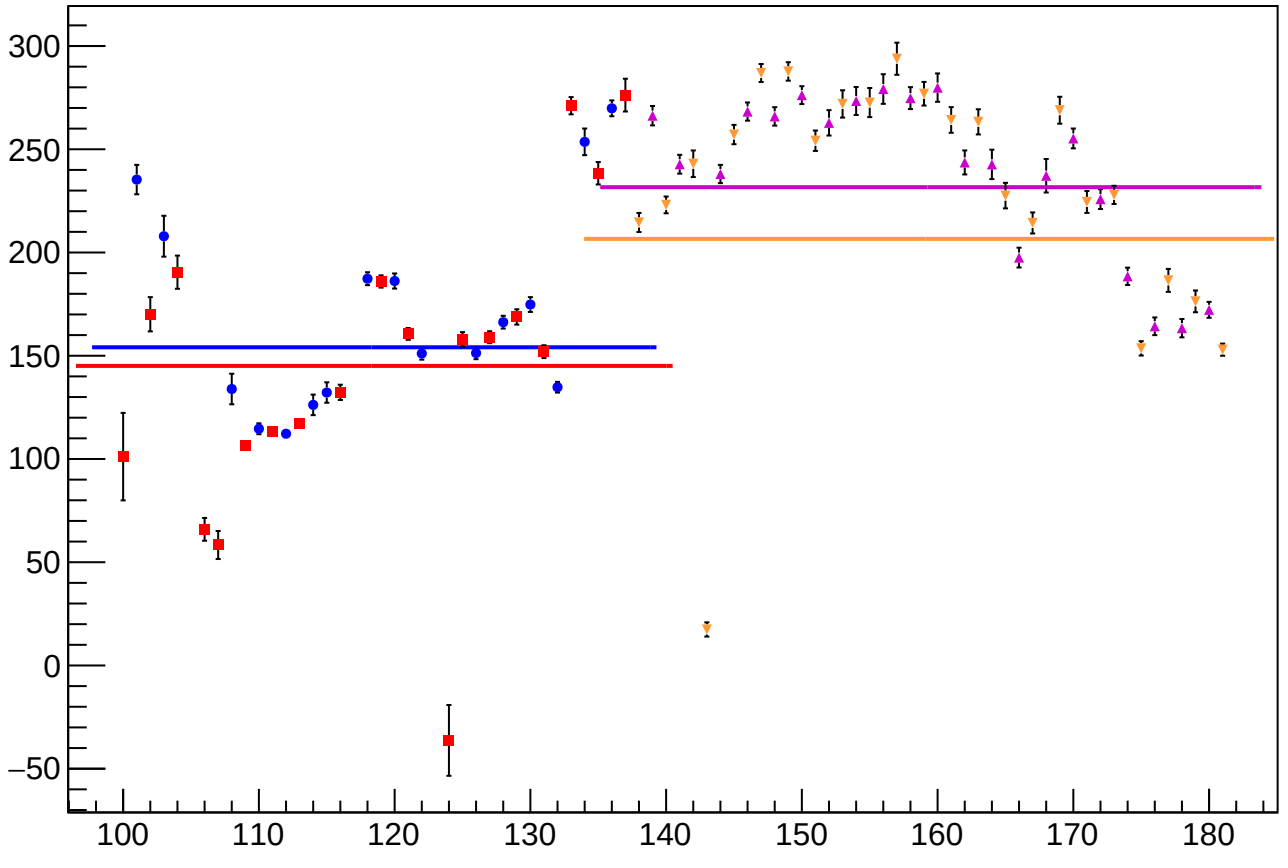
Left: -139.110+/-0.032 $\chi^2$/NDF: 1180808.3/43

Right: -61.201+/-0.045 $\chi^2$/NDF: 1926190.0/34

In: -117.334+/-0.038 $\chi^2$/NDF:2251110.8/36

Out: -107.213+/-0.036 $\chi^2$/NDF:2818825.0/41

All: -112.075+/-0.026 $\chi^2$/NDF: 5107121.8/78




Right In: 154.096+/-0.869 $\chi^2$/NDF: 2281.1/15

Left Out: 206.602+/-1.005 $\chi^2$/NDF:5329.6/22

Right Out: 145.083+/-0.826 $\chi^2$/NDF: 2958.4/18

Left In: 231.639+/-1.086 $\chi^2$/NDF:1429.8/20

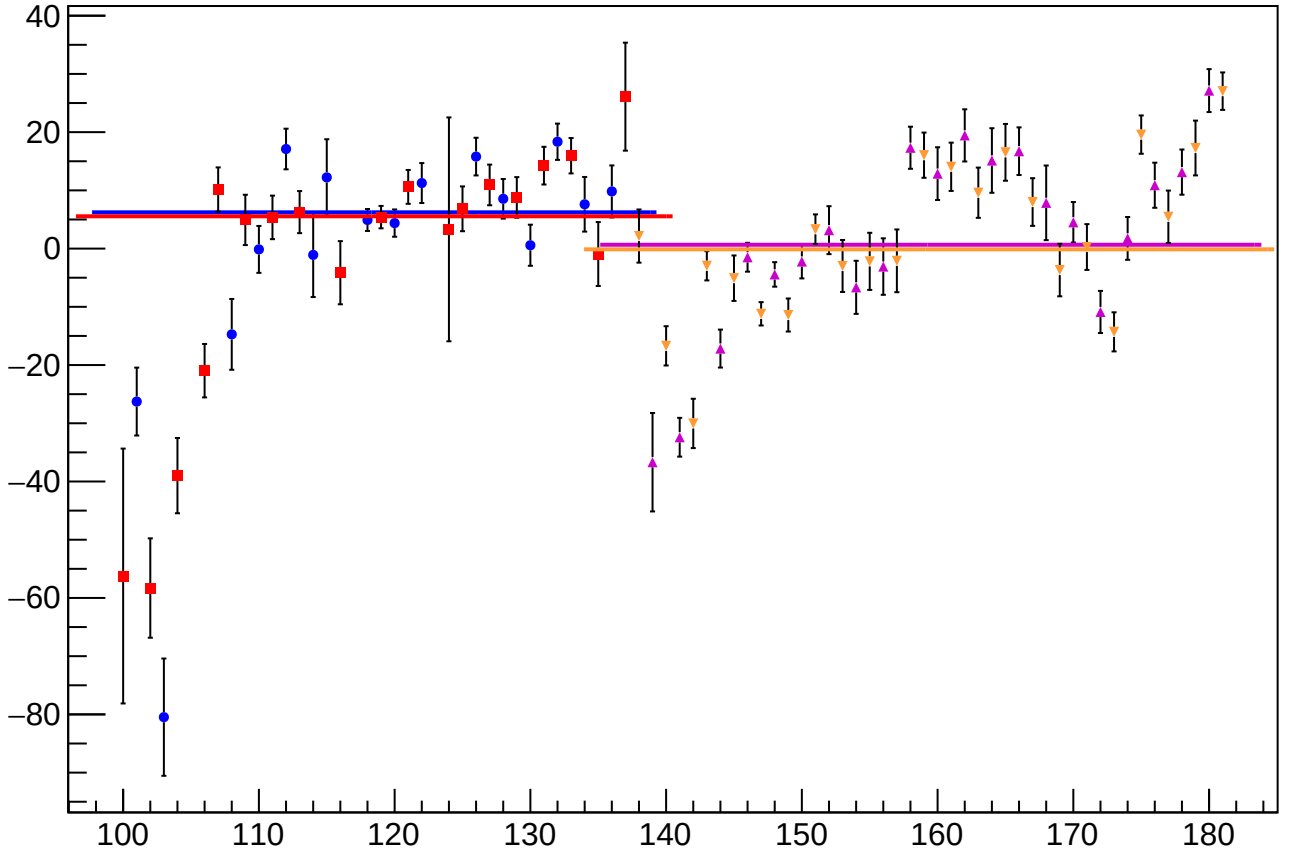
Left: 218.156+/-0.738 $\chi^2$/NDF: 7045.6/43

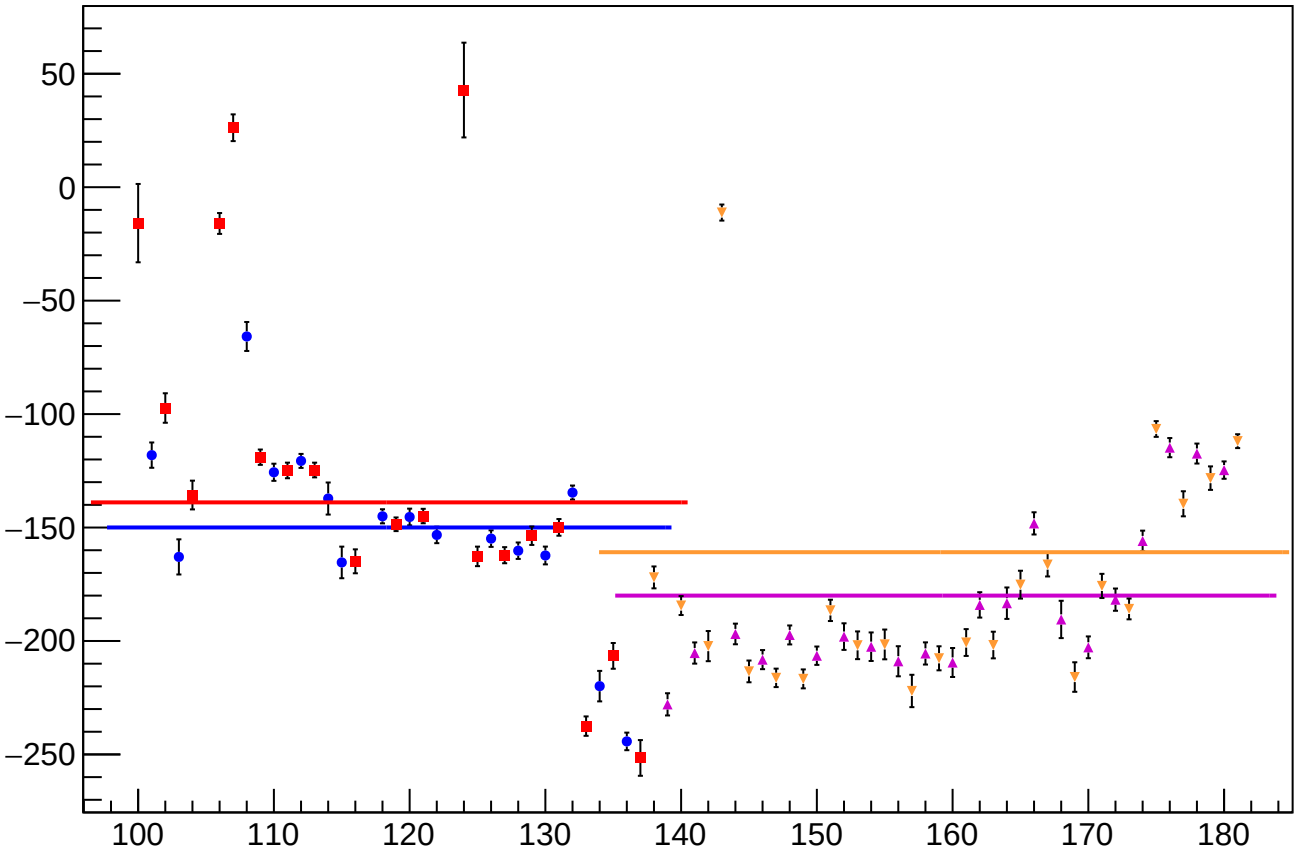
Right: 149.361+/-0.599 $\chi^2$/NDF: 5296.0/34

In: 184.373+/-0.679 $\chi^2$/NDF:6819.0/36

Out: 169.879+/-0.638 $\chi^2$/NDF:10523.6/41

All: 176.682+/-0.465 $\chi^2$/NDF: 17584.7/78


reg_asym_atl_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
−80
100
110
120
130
140
150
160
170
180
Right In: 6.229+/-0.890 χ²/NDF: 162.1/15
Left Out: -0.126+/-0.738 χ²/NDF:316.6/22
Right Out: 5.548+/-0.889 χ²/NDF: 181.1/18
Left In: 0.661+/-0.794 χ²/NDF:309.1/20
Left: 0.239+/-0.541 χ²/NDF: 626.2/43
Right: 5.888+/-0.629 χ²/NDF: 343.5/34
In: 3.128+/-0.592 χ²/NDF:492.9/36
Out: 2.189+/-0.568 χ²/NDF:521.9/41
All: 2.638+/-0.410 χ²/NDF: 1016.1/78




Right In: -149.970+/-1.026 $\chi^2$/NDF: 1099.5/15

Left Out: -160.868+/-0.999 $\chi^2$/NDF:3375.6/22

Right Out: -138.912+/-0.993 $\chi^2$/NDF: 2750.9/18

Left In: -179.998+/-1.071 $\chi^2$/NDF:1078.1/20

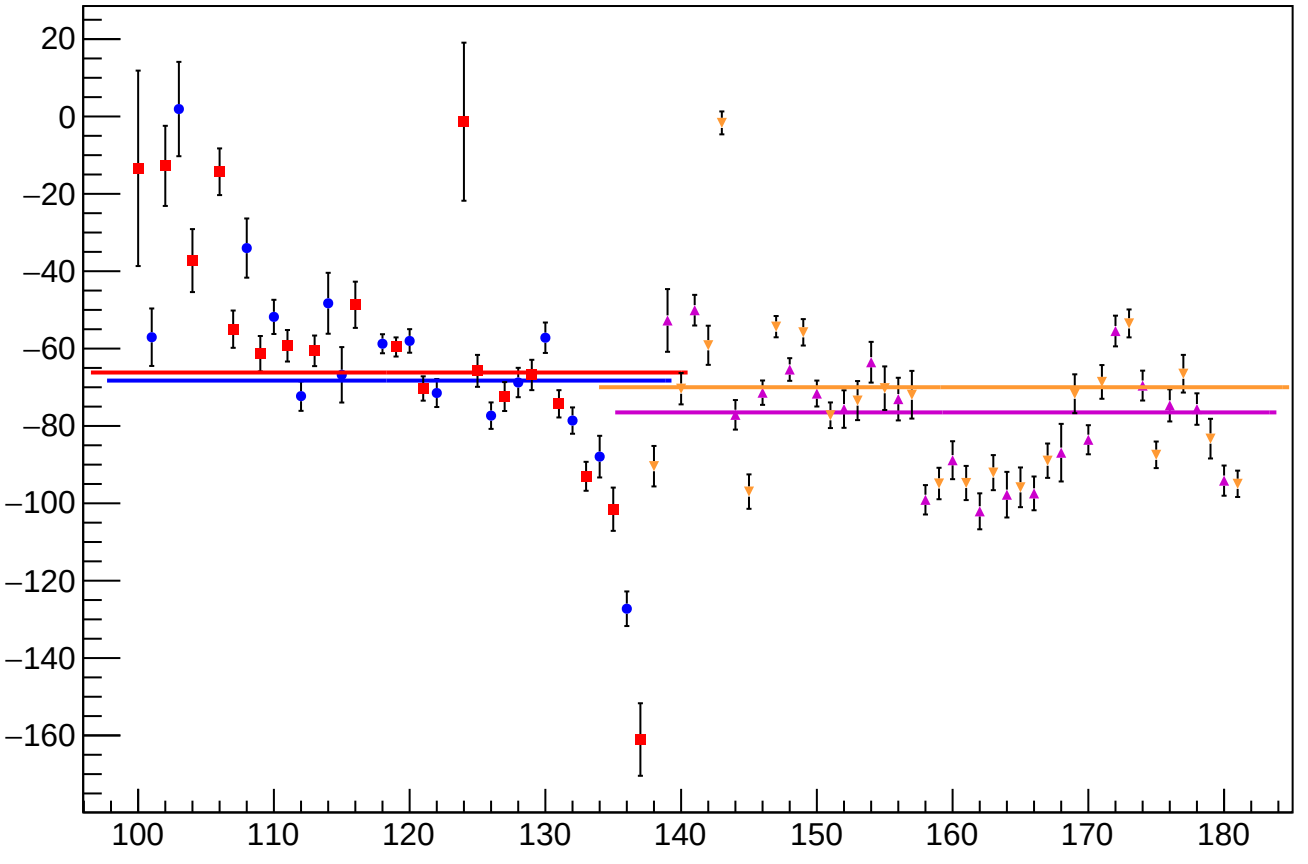
Left: -169.771+/-0.730 $\chi^2$/NDF: 4624.4/43

Right: -144.265+/-0.714 $\chi^2$/NDF: 3910.3/34

In: -164.340+/-0.741 $\chi^2$/NDF:2587.8/36

Out: -149.830+/-0.704 $\chi^2$/NDF:6369.4/41

All: -156.722+/-0.510 $\chi^2$/NDF: 9158.7/78




Right In: -68.272+/-1.033 $\chi^2$/NDF: 315.4/15

Left Out: -69.987+/-0.852 $\chi^2$/NDF:888.0/22

Right Out: -66.186+/-1.024 $\chi^2$/NDF: 358.3/18

Left In: -76.498+/-0.910 $\chi^2$/NDF:244.1/20

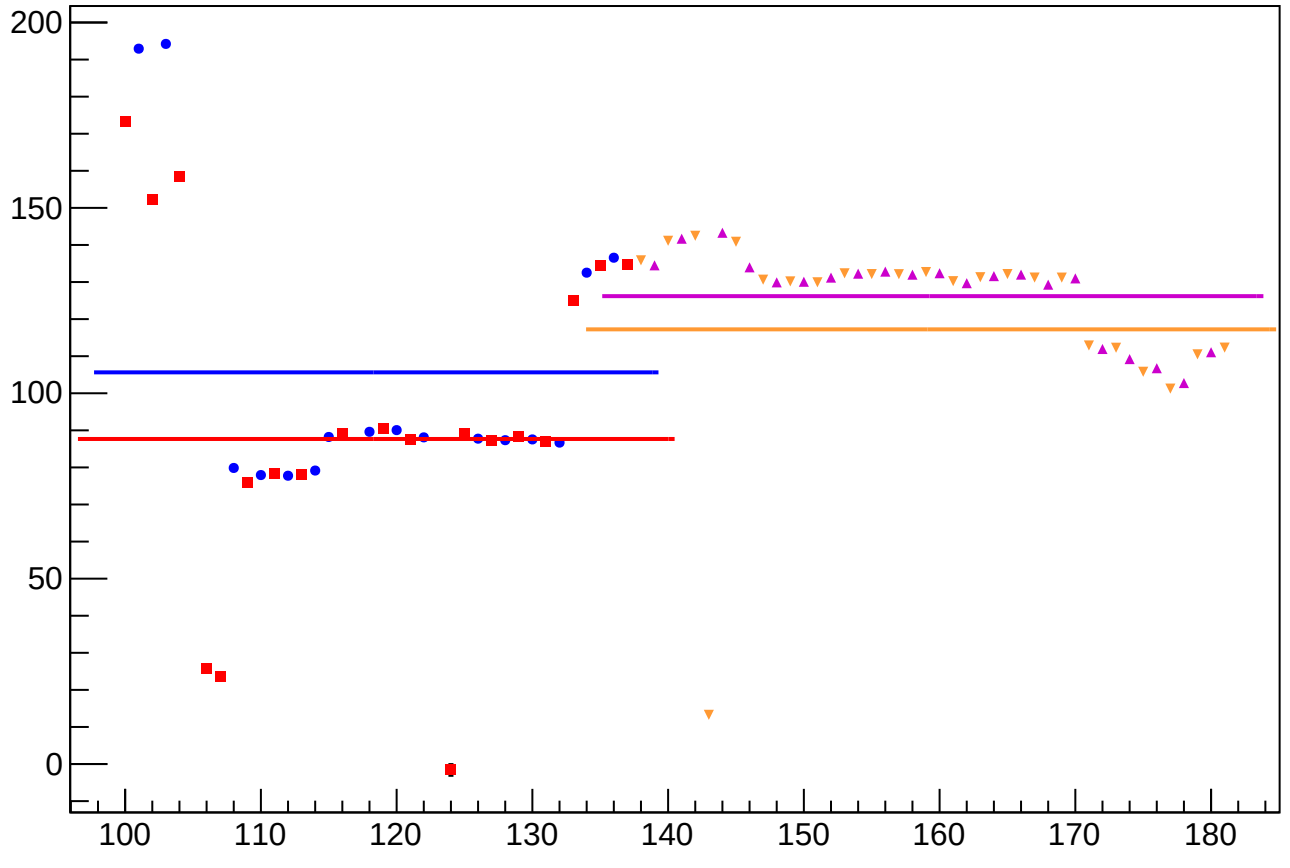
Left: -73.029+/-0.622 $\chi^2$/NDF: 1159.3/43

Right: -67.219+/-0.727 $\chi^2$/NDF: 675.8/34

In: -72.903+/-0.683 $\chi^2$/NDF:595.2/36

Out: -68.431+/-0.655 $\chi^2$/NDF:1254.5/41

All: -70.574+/-0.473 $\chi^2$/NDF: 1872.0/78




Right In: 105.640+/-0.071 $\chi^2$/NDF: 239614.1/15

Left Out: 117.238+/-0.040 $\chi^2$/NDF:622165.5/22

Right Out: 87.673+/-0.066 $\chi^2$/NDF: 374460.7/18

Left In: 126.195+/-0.041 $\chi^2$/NDF:77117.0/20

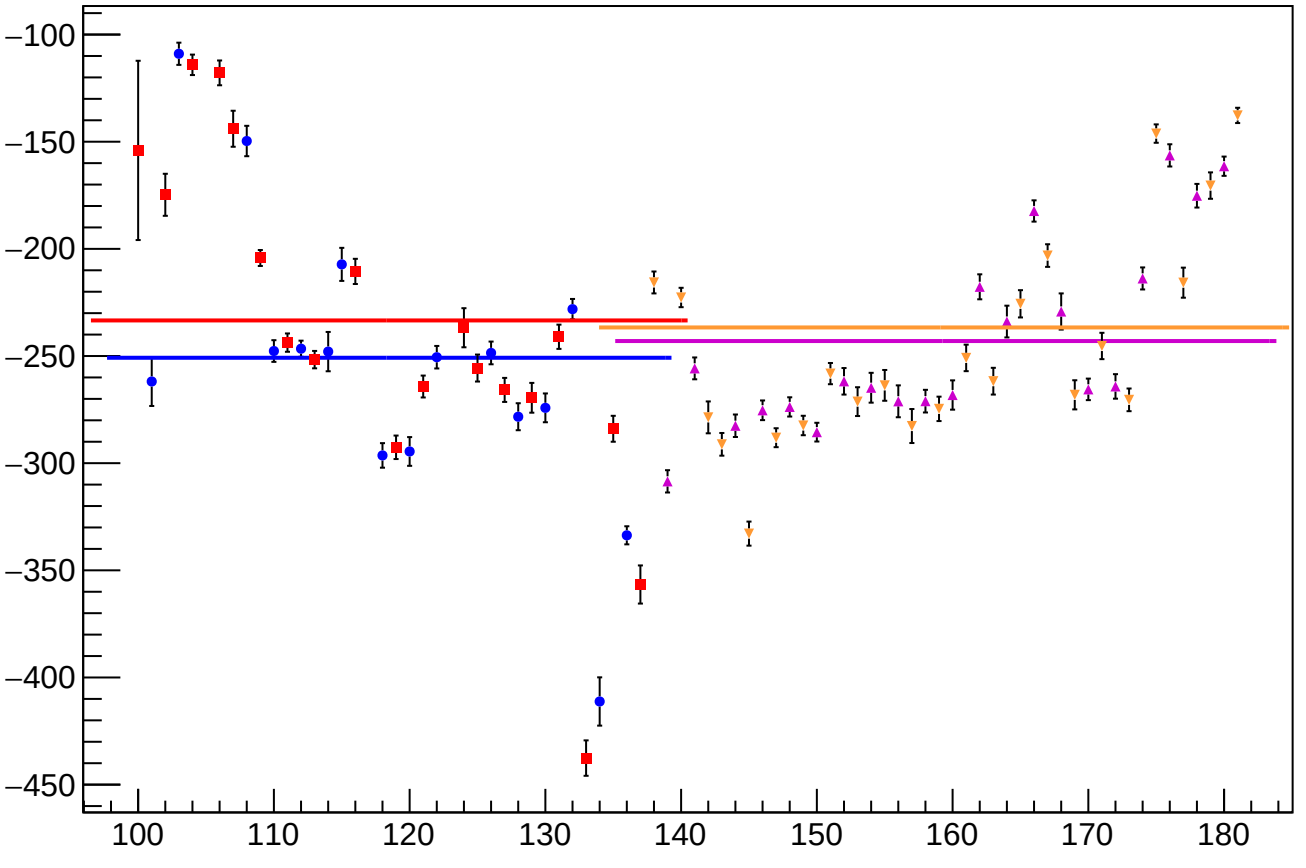
Left: 121.536+/-0.029 $\chi^2$/NDF: 723545.2/43

Right: 95.972+/-0.048 $\chi^2$/NDF: 648694.2/34

In: 120.948+/-0.036 $\chi^2$/NDF:379446.9/36

Out: 109.279+/-0.034 $\chi^2$/NDF:1144939.5/41

All: 114.823+/-0.025 $\chi^2$/NDF: 1580180.0/78




Right In: -250.812+/-1.438 $\chi^2$/NDF: 1735.7/15

Left Out: -236.666+/-1.134 $\chi^2$/NDF:2300.3/22

Right Out: -233.396+/-1.333 $\chi^2$/NDF: 2378.5/18

Left In: -243.013+/-1.184 $\chi^2$/NDF:1485.5/20

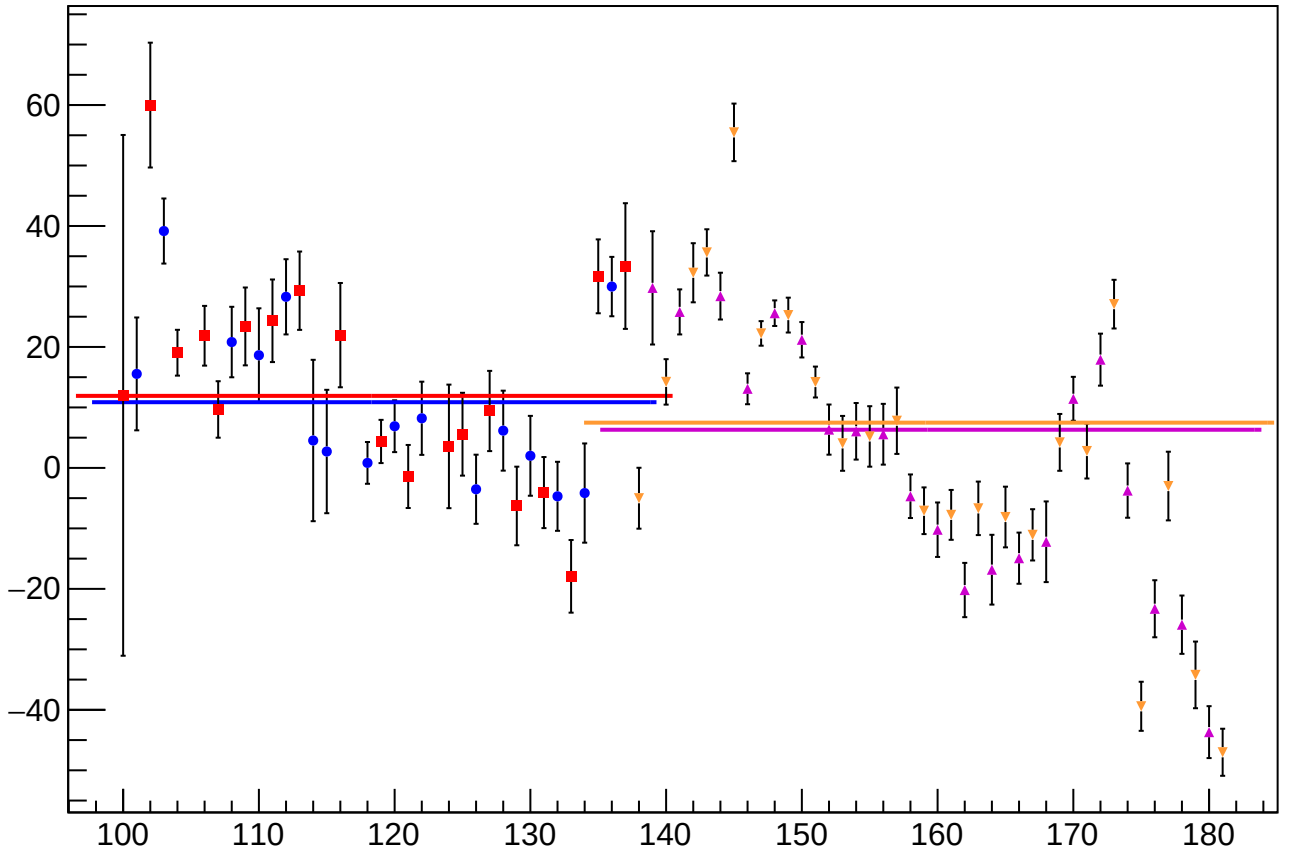
Left: -239.702+/-0.819 $\chi^2$/NDF: 3800.8/43

Right: -241.445+/-0.978 $\chi^2$/NDF: 4193.1/34

In: -246.164+/-0.914 $\chi^2$/NDF:3238.7/36

Out: -235.293+/-0.864 $\chi^2$/NDF:4682.3/41

All: -240.421+/-0.628 $\chi^2$/NDF: 7995.7/78




Right In: 10.864+/-1.471 $\chi^2$/NDF: 84.7/15

Left Out: 7.484+/-0.811 $\chi^2$/NDF:772.1/22

Right Out: 11.912+/-1.368 $\chi^2$/NDF: 111.9/18

Left In: 6.310+/-0.847 $\chi^2$/NDF:522.8/20

Left: 6.923+/-0.586 $\chi^2$/NDF: 1295.9/43

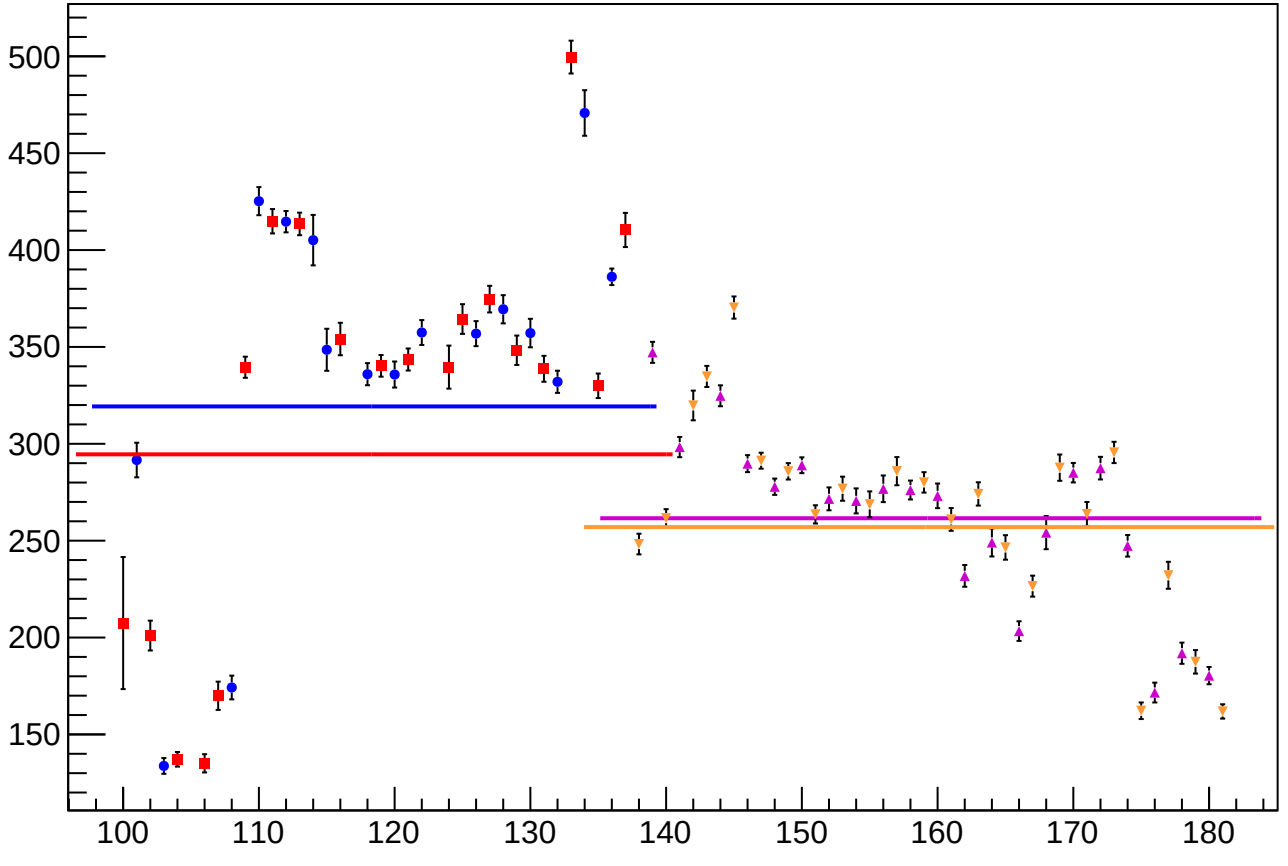
Right: 11.426+/-1.001 $\chi^2$/NDF: 196.9/34

In: 7.445+/-0.734 $\chi^2$/NDF:614.7/36

Out: 8.635+/-0.697 $\chi^2$/NDF:891.7/41

All: 8.071+/-0.506 $\chi^2$/NDF: 1507.8/78

reg_asym_atr_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 319.293+/-1.586 $\chi^2$/NDF: 3792.9/15

Left Out: 257.001+/-1.119 $\chi^2$/NDF:2242.8/22

Right Out: 294.567+/-1.481 $\chi^2$/NDF: 5503.2/18

Left In: 261.577+/-1.162 $\chi^2$/NDF:1573.0/20

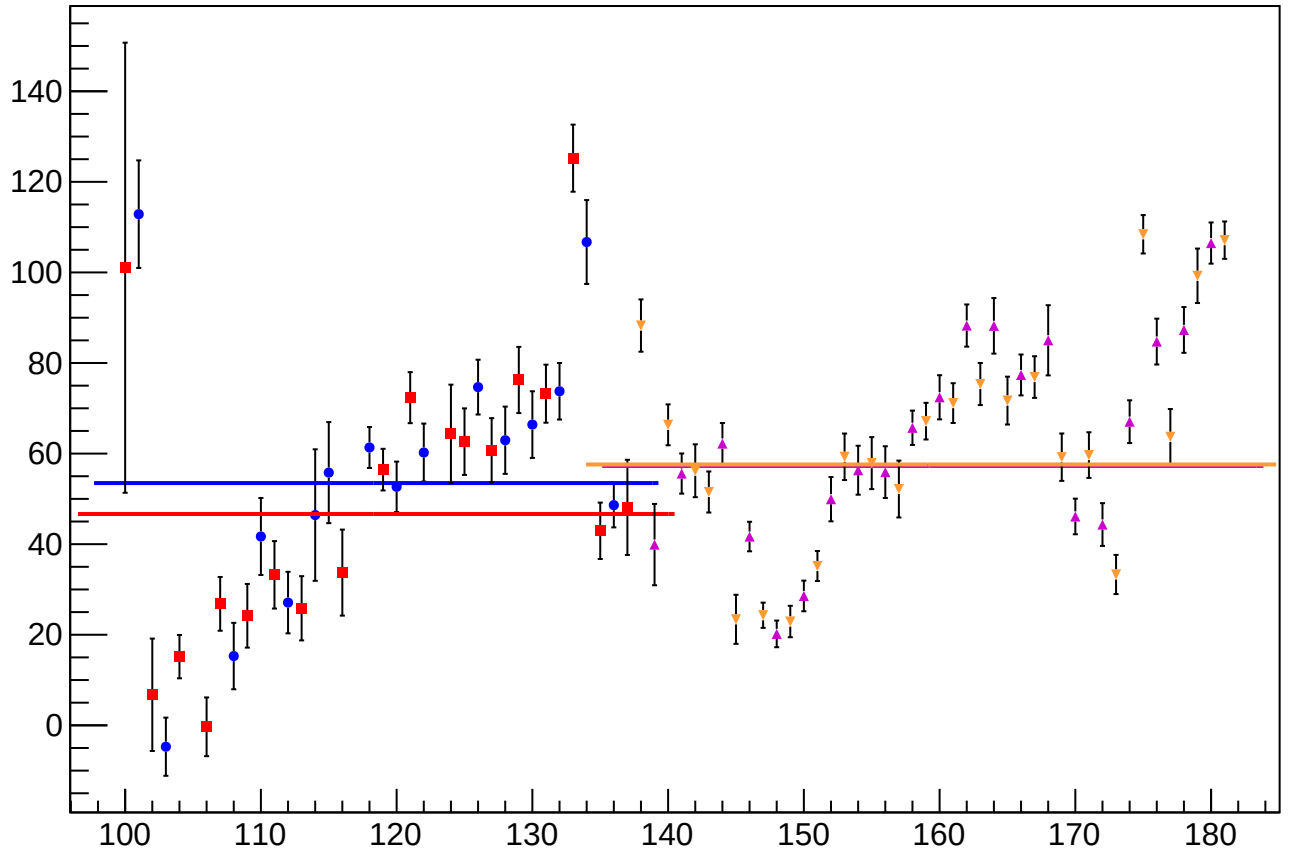
Left: 259.204+/-0.806 $\chi^2$/NDF: 3823.8/43

Right: 306.088+/-1.083 $\chi^2$/NDF: 9425.9/34

In: 281.731+/-0.937 $\chi^2$/NDF:6227.7/36

Out: 270.654+/-0.893 $\chi^2$/NDF:8155.3/41

All: 275.925+/-0.647 $\chi^2$/NDF: 14456.2/78




Right In: 53.494+/-1.699 $\chi^2$/NDF: 217.2/15

Left Out: 57.597+/-0.942 $\chi^2$/NDF:785.9/22

Right Out: 46.666+/-1.593 $\chi^2$/NDF: 325.6/18

Left In: 57.272+/-0.977 $\chi^2$/NDF:579.7/20

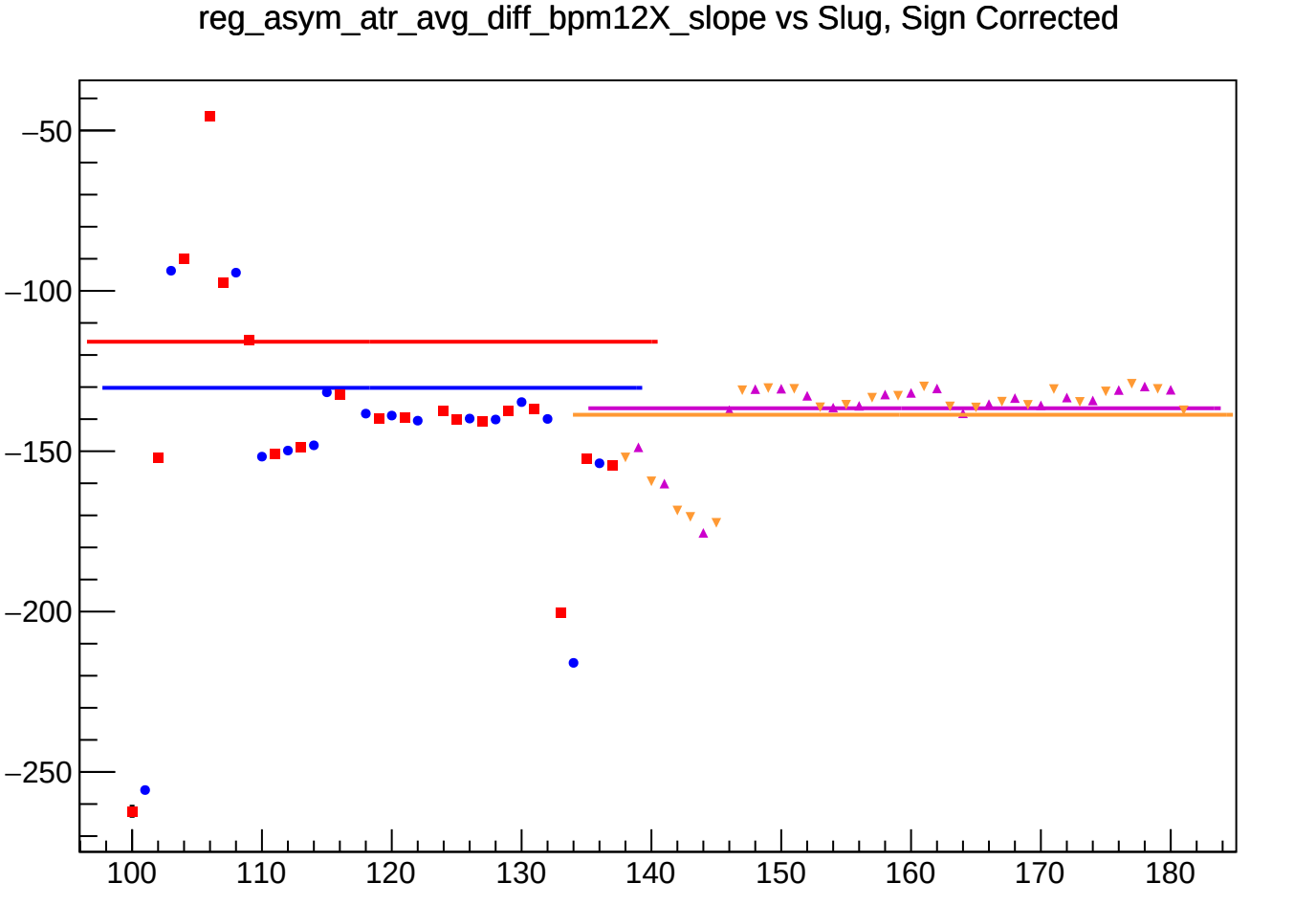
Left: 57.440+/-0.678 $\chi^2$/NDF: 1365.6/43

Right: 49.861+/-1.162 $\chi^2$/NDF: 551.4/34

In: 56.332+/-0.847 $\chi^2$/NDF:800.6/36

Out: 54.767+/-0.811 $\chi^2$/NDF:1146.4/41

All: 55.515+/-0.586 $\chi^2$/NDF: 1948.8/78




Right In: -130.236+/-0.091 $\chi^2$/NDF: 174208.5/15

Left Out: -138.635+/-0.044 $\chi^2$/NDF:80610.9/22

Right Out: -115.865+/-0.086 $\chi^2$/NDF: 205899.4/18

Left In: -136.607+/-0.045 $\chi^2$/NDF:49496.9/20

Left: -137.634+/-0.031 $\chi^2$/NDF: 131147.8/43

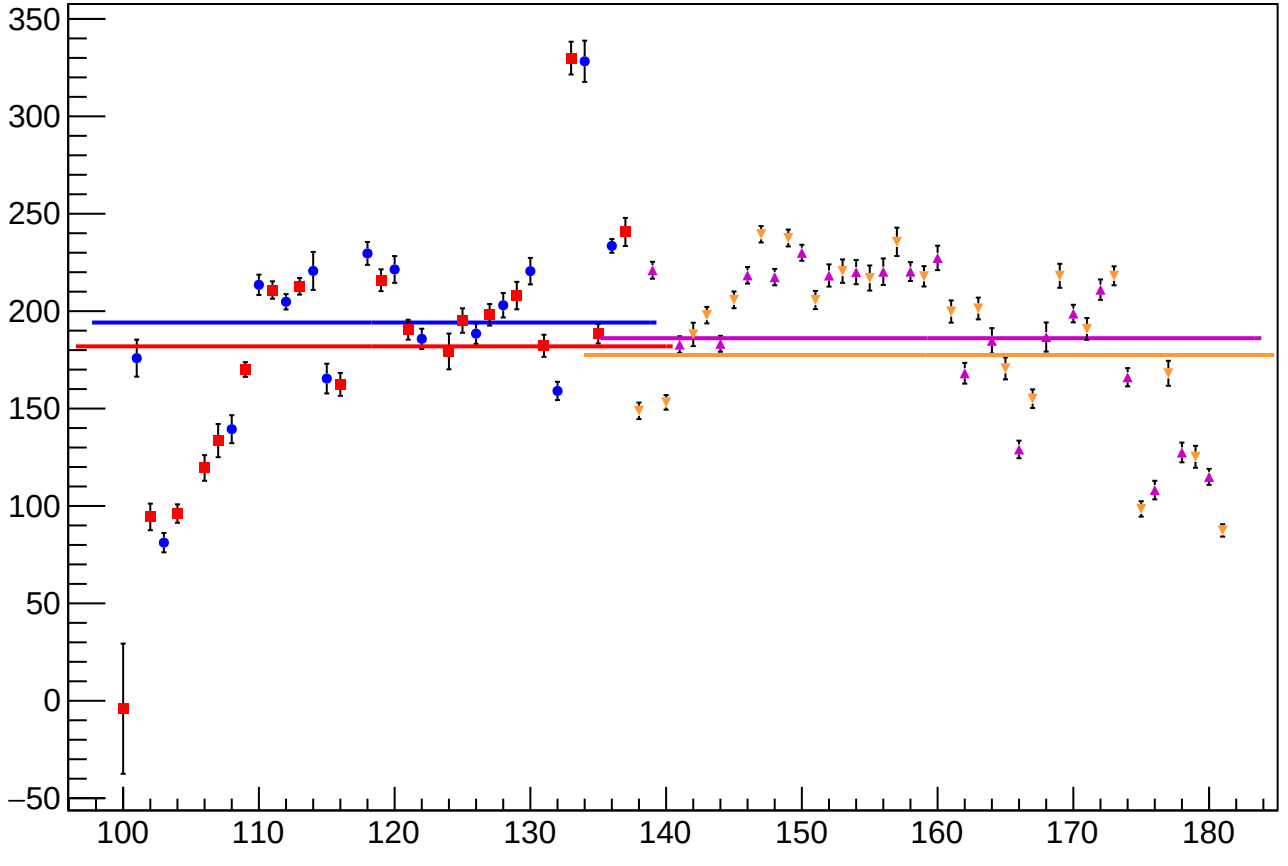
Right: -122.615+/-0.062 $\chi^2$/NDF: 393311.6/34

In: -135.367+/-0.040 $\chi^2$/NDF:227645.3/36

Out: -133.852+/-0.039 $\chi^2$/NDF:342251.6/41

All: -134.593+/-0.028 $\chi^2$/NDF: 570624.0/78

# reg_asym_atr_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 194.164+/-1.407 $\chi^2$/NDF: 1035.2/15

Left Out: 177.516+/-1.008 $\chi^2$/NDF:2282.9/22

Right Out: 181.928+/-1.322 $\chi^2$/NDF: 1204.8/18

Left In: 186.114+/-1.063 $\chi^2$/NDF:1394.7/20

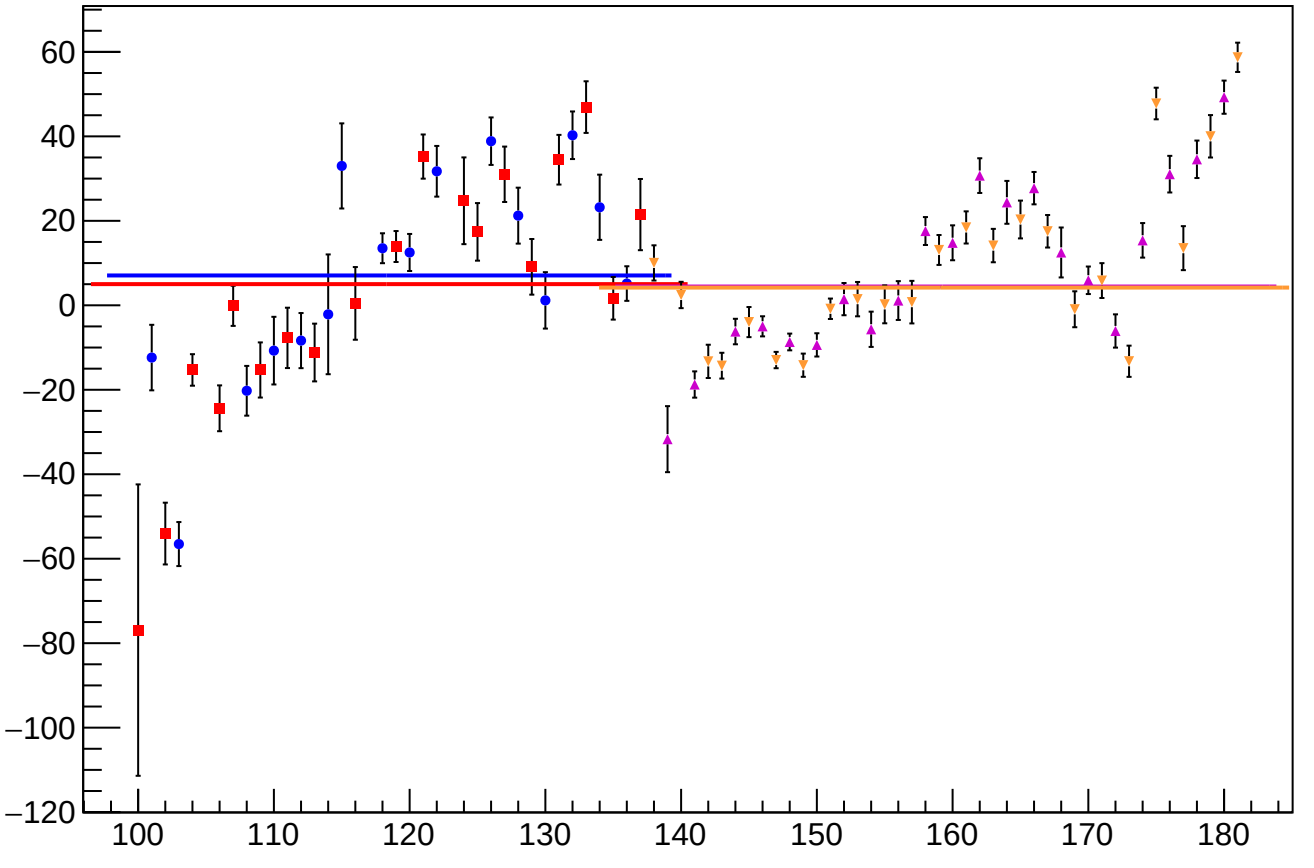
Left: 181.585+/-0.731 $\chi^2$/NDF: 3712.0/43

Right: 187.666+/-0.963 $\chi^2$/NDF: 2280.2/34

In: 189.041+/-0.848 $\chi^2$/NDF:2450.7/36

Out: 179.137+/-0.801 $\chi^2$/NDF:3494.7/41

All: 183.808+/-0.582 $\chi^2$/NDF: 6017.5/78




Right In: 7.066+/-1.443 $\chi^2$/NDF: 292.6/15

Left Out: 4.197+/-0.729 $\chi^2$/NDF:705.6/22

Right Out: 5.015+/-1.355 $\chi^2$/NDF: 288.5/18

Left In: 4.446+/-0.767 $\chi^2$/NDF:526.9/20

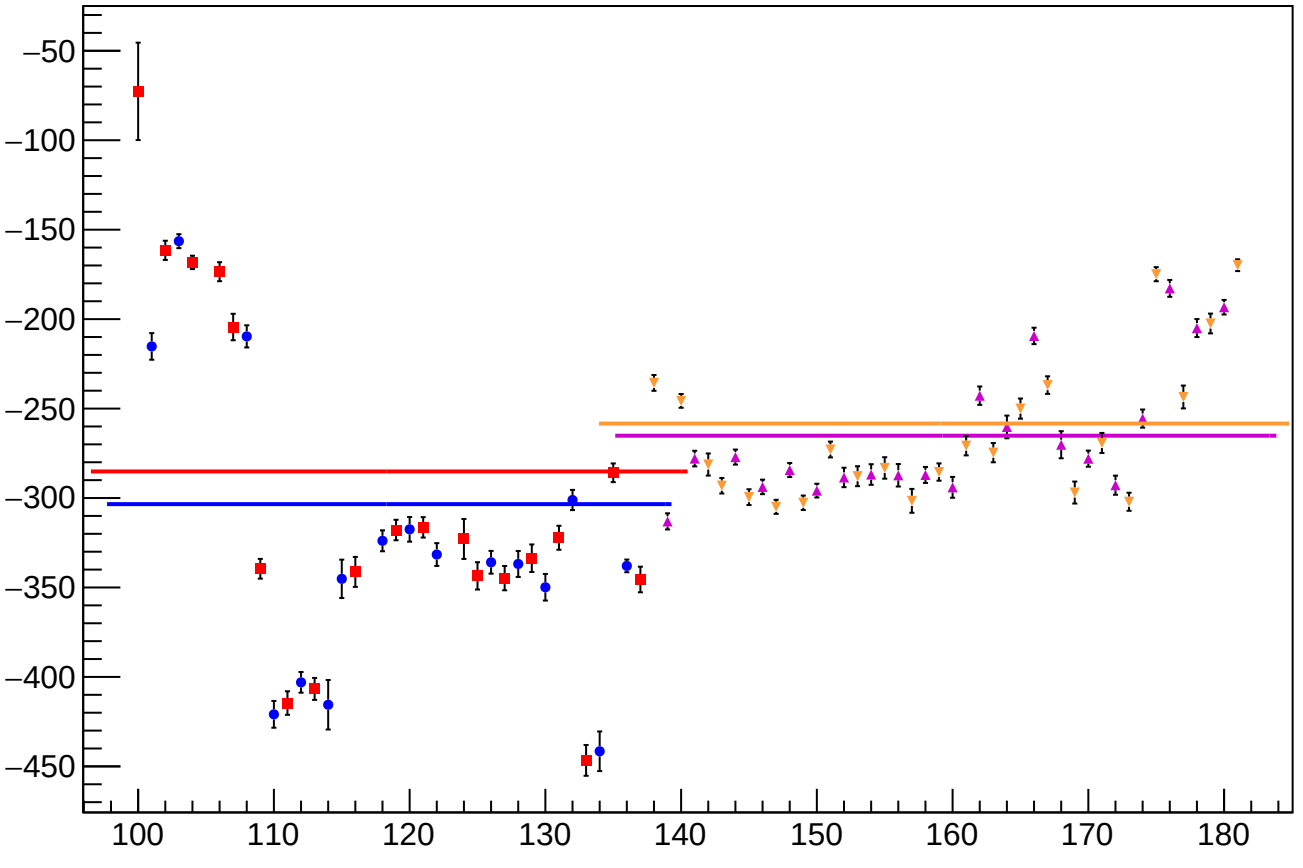
Left: 4.315+/-0.529 $\chi^2$/NDF: 1232.5/43

Right: 5.976+/-0.988 $\chi^2$/NDF: 582.2/34

In: 5.024+/-0.678 $\chi^2$/NDF:822.0/36

Out: 4.381+/-0.642 $\chi^2$/NDF:994.4/41

All: 4.685+/-0.466 $\chi^2$/NDF: 1816.9/78




Right In: -303.408+/-1.530 $\chi^2$/NDF: 2785.5/15

Left Out: -258.362+/-0.998 $\chi^2$/NDF:2022.5/22

Right Out: -285.148+/-1.451 $\chi^2$/NDF: 3754.8/18

Left In: -265.149+/-1.045 $\chi^2$/NDF:1324.4/20

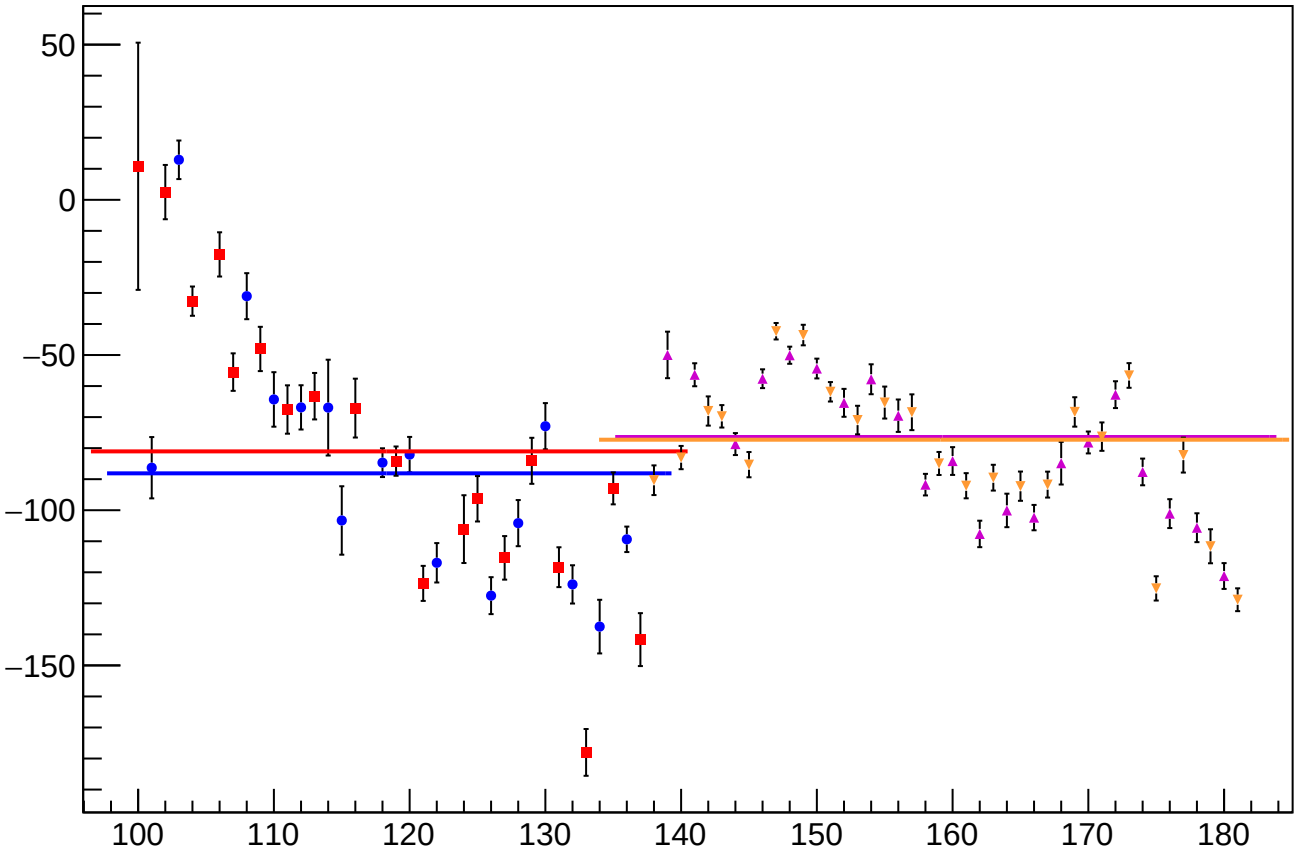
Left: -261.598+/-0.722 $\chi^2$/NDF: 3369.0/43

Right: -293.794+/-1.053 $\chi^2$/NDF: 6615.3/34

In: -277.324+/-0.863 $\chi^2$/NDF:4536.2/36

Out: -266.964+/-0.822 $\chi^2$/NDF:6008.7/41

All: -271.893+/-0.595 $\chi^2$/NDF: 10620.4/78




Right In: -88.119+/-1.655 $\chi^2$/NDF: 511.9/15

Left Out: -77.283+/-0.845 $\chi^2$/NDF:799.0/22

Right Out: -81.046+/-1.569 $\chi^2$/NDF: 677.5/18

Left In: -76.411+/-0.884 $\chi^2$/NDF:580.3/20

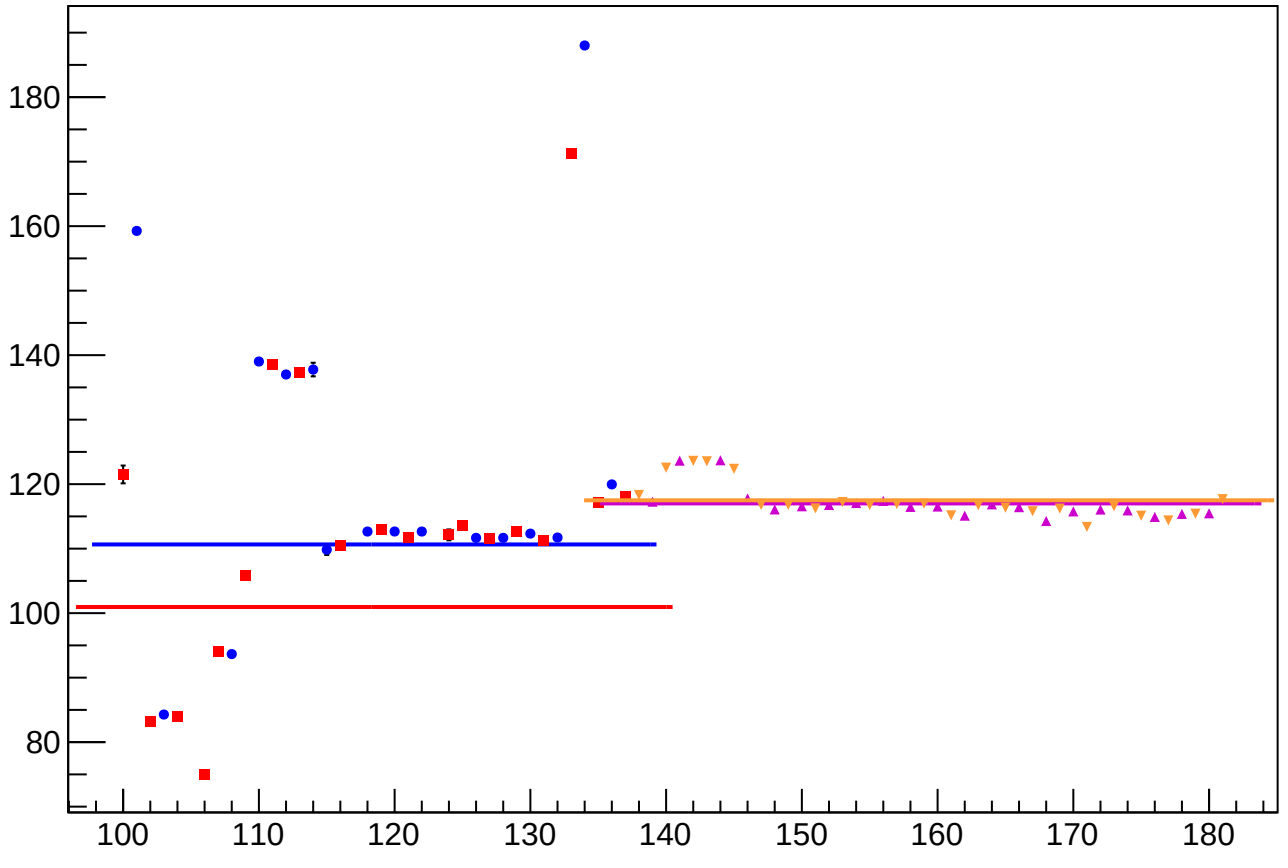
Left: -76.867+/-0.611 $\chi^2$/NDF: 1379.8/43

Right: -84.394+/-1.139 $\chi^2$/NDF: 1199.1/34

In: -79.010+/-0.780 $\chi^2$/NDF:1131.2/36

Out: -78.129+/-0.744 $\chi^2$/NDF:1481.0/41

All: -78.549+/-0.538 $\chi^2$/NDF: 2612.8/78




Right In: 110.651+/-0.086 $\chi^2$/NDF: 83521.8/15

Left Out: 117.496+/-0.039 $\chi^2$/NDF:4729.1/22

Right Out: 100.949+/-0.081 $\chi^2$/NDF: 62002.4/18

Left In: 117.009+/-0.040 $\chi^2$/NDF:3296.2/20

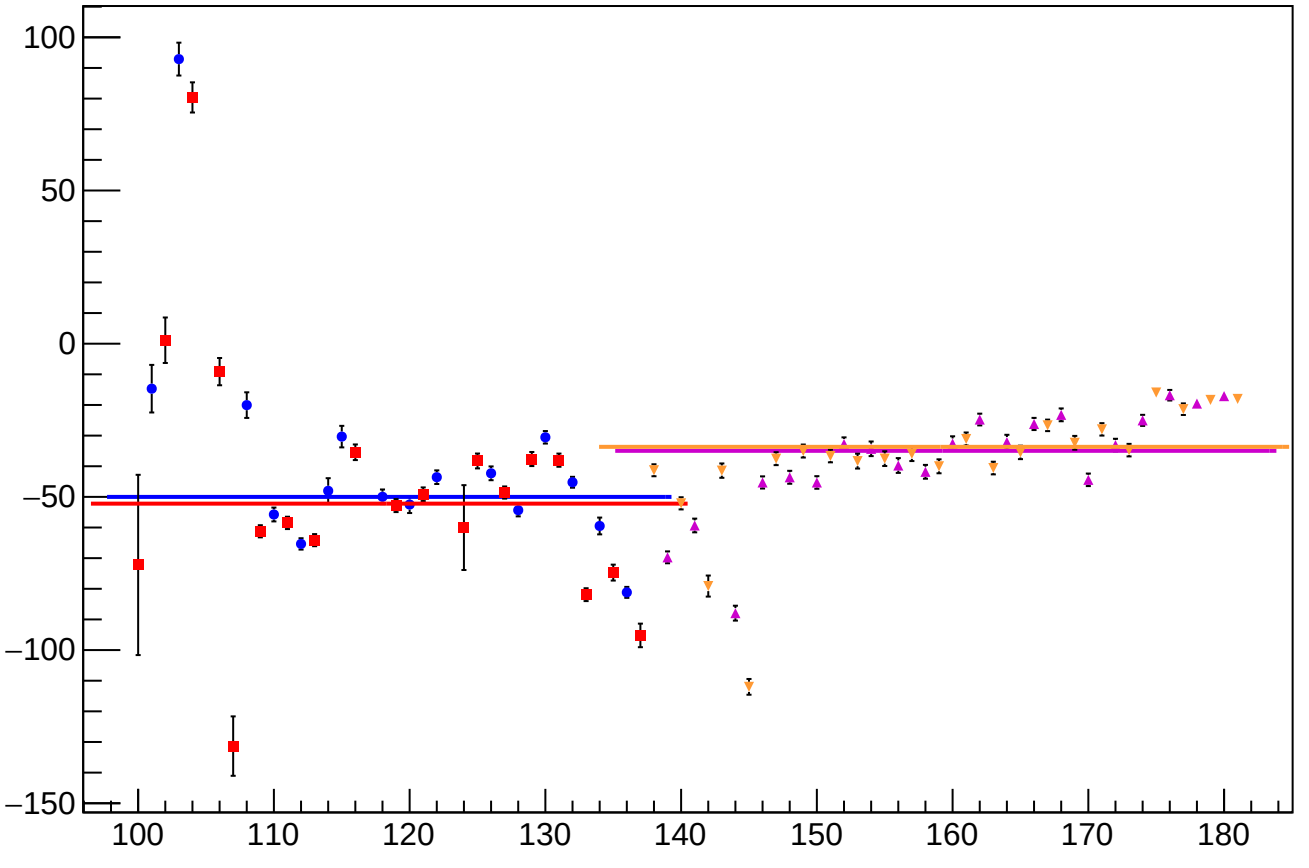
Left: 117.258+/-0.028 $\chi^2$/NDF: 8099.7/43

Right: 105.518+/-0.059 $\chi^2$/NDF: 152285.6/34

In: 115.860+/-0.036 $\chi^2$/NDF:91315.6/36

Out: 114.319+/-0.035 $\chi^2$/NDF:100474.8/41

All: 115.068+/-0.025 $\chi^2$/NDF: 192707.8/78




Right In: -50.008+/-0.610 $\chi^2$/NDF: 1327.4/15

Left Out: -33.665+/-0.420 $\chi^2$/NDF:1693.5/22

Right Out: -52.207+/-0.605 $\chi^2$/NDF: 1570.3/18

Left In: -34.968+/-0.436 $\chi^2$/NDF:1507.0/20

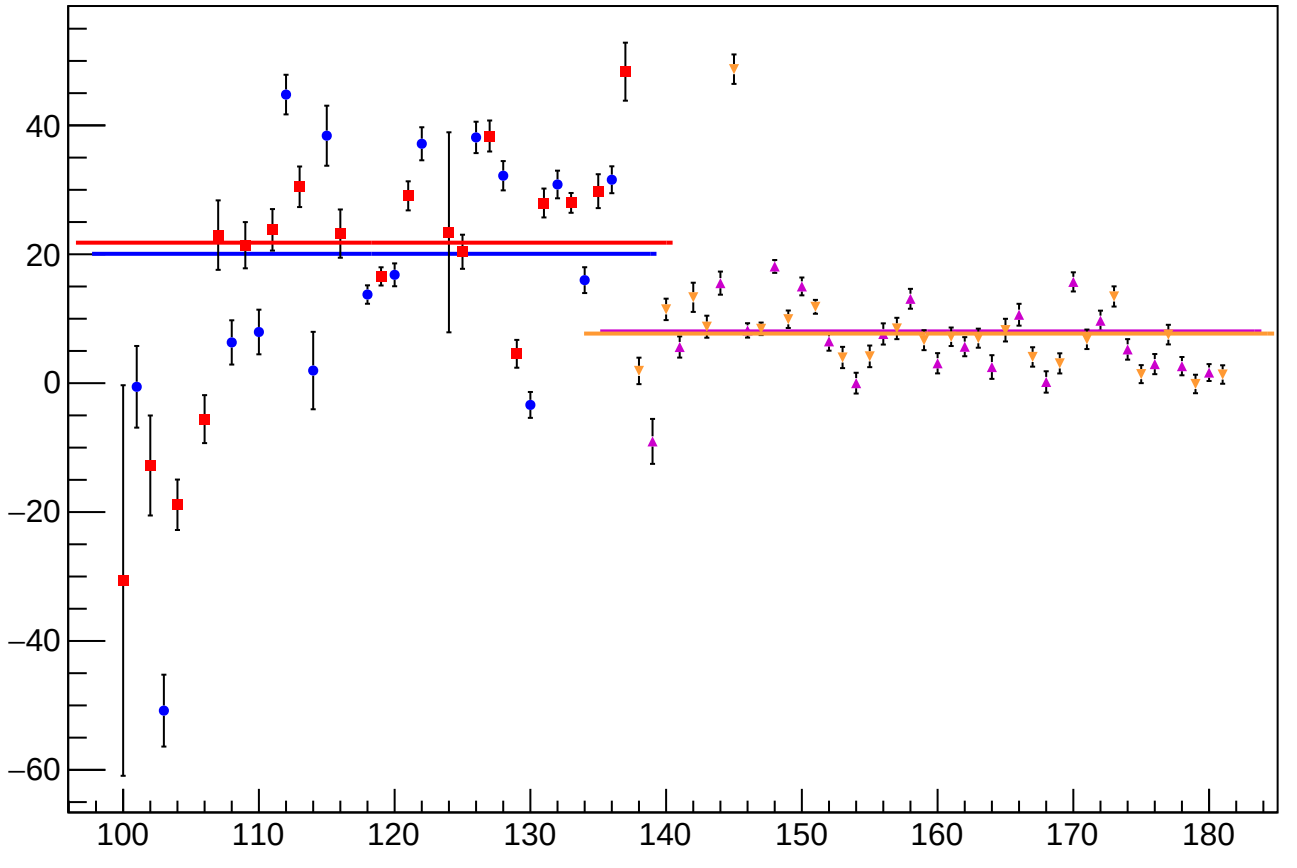
Left: -34.293+/-0.302 $\chi^2$/NDF: 3205.1/43

Right: -51.116+/-0.430 $\chi^2$/NDF: 2904.2/34

In: -40.051+/-0.355 $\chi^2$/NDF:3236.8/36

Out: -39.693+/-0.345 $\chi^2$/NDF:3897.7/41

All: -39.867+/-0.247 $\chi^2$/NDF: 7135.1/78




Right In: 20.072+/-0.612 $\chi^2$/NDF: 636.2/15

Left Out: 7.696+/-0.313 $\chi^2$/NDF:468.7/22

Right Out: 21.800+/-0.622 $\chi^2$/NDF: 396.3/18

Left In: 8.033+/-0.327 $\chi^2$/NDF:333.8/20

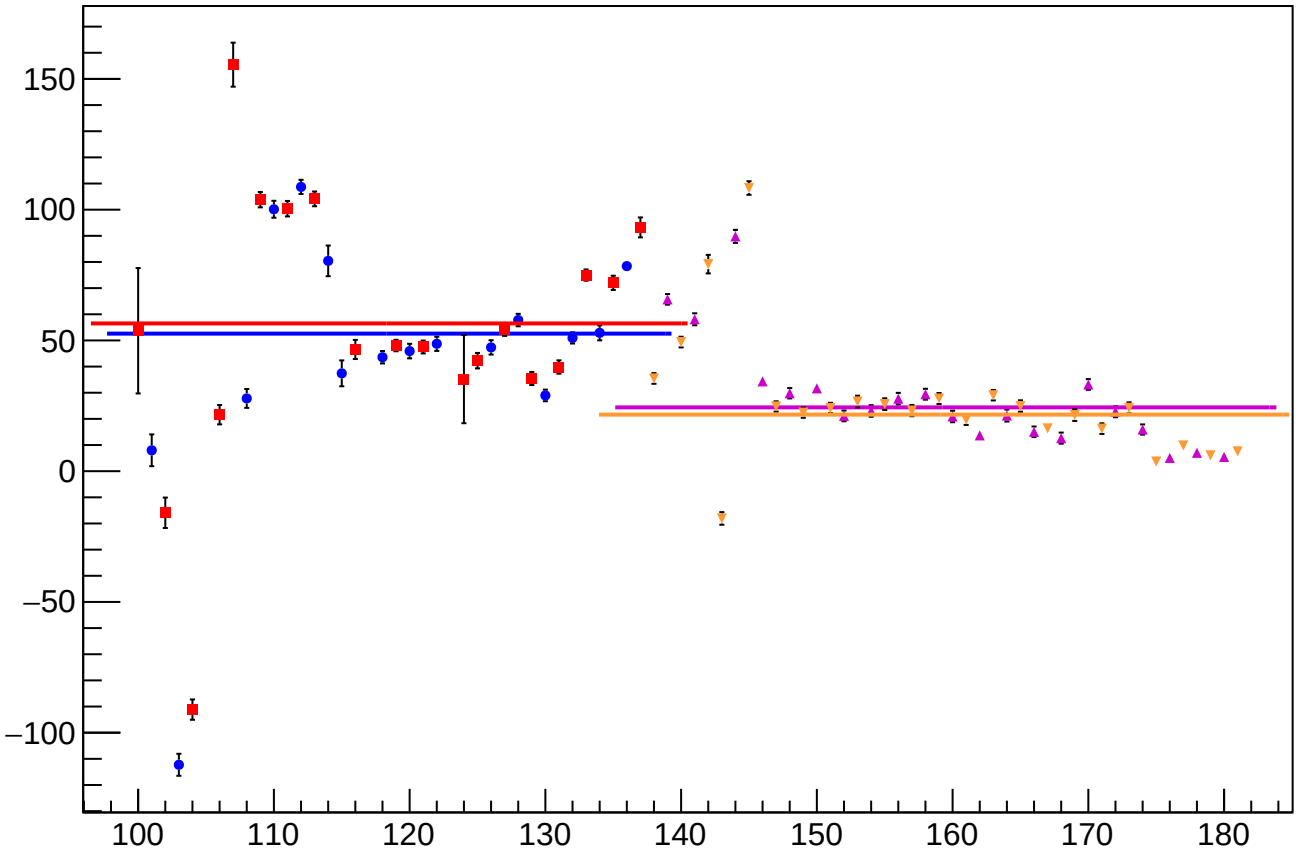
Left: 7.857+/-0.226 $\chi^2$/NDF: 803.0/43

Right: 20.922+/-0.436 $\chi^2$/NDF: 1036.5/34

In: 10.706+/-0.288 $\chi^2$/NDF:1271.2/36

Out: 10.551+/-0.280 $\chi^2$/NDF:1275.0/41

All: 10.626+/-0.201 $\chi^2$/NDF: 2546.3/78




Right In: 52.605+/-0.696 $\chi^2$/NDF: 2659.4/15

Left Out: 21.633+/-0.415 $\chi^2$/NDF:2328.2/22

Right Out: 56.499+/-0.705 $\chi^2$/NDF: 2965.5/18

Left In: 24.398+/-0.429 $\chi^2$/NDF:1946.7/20

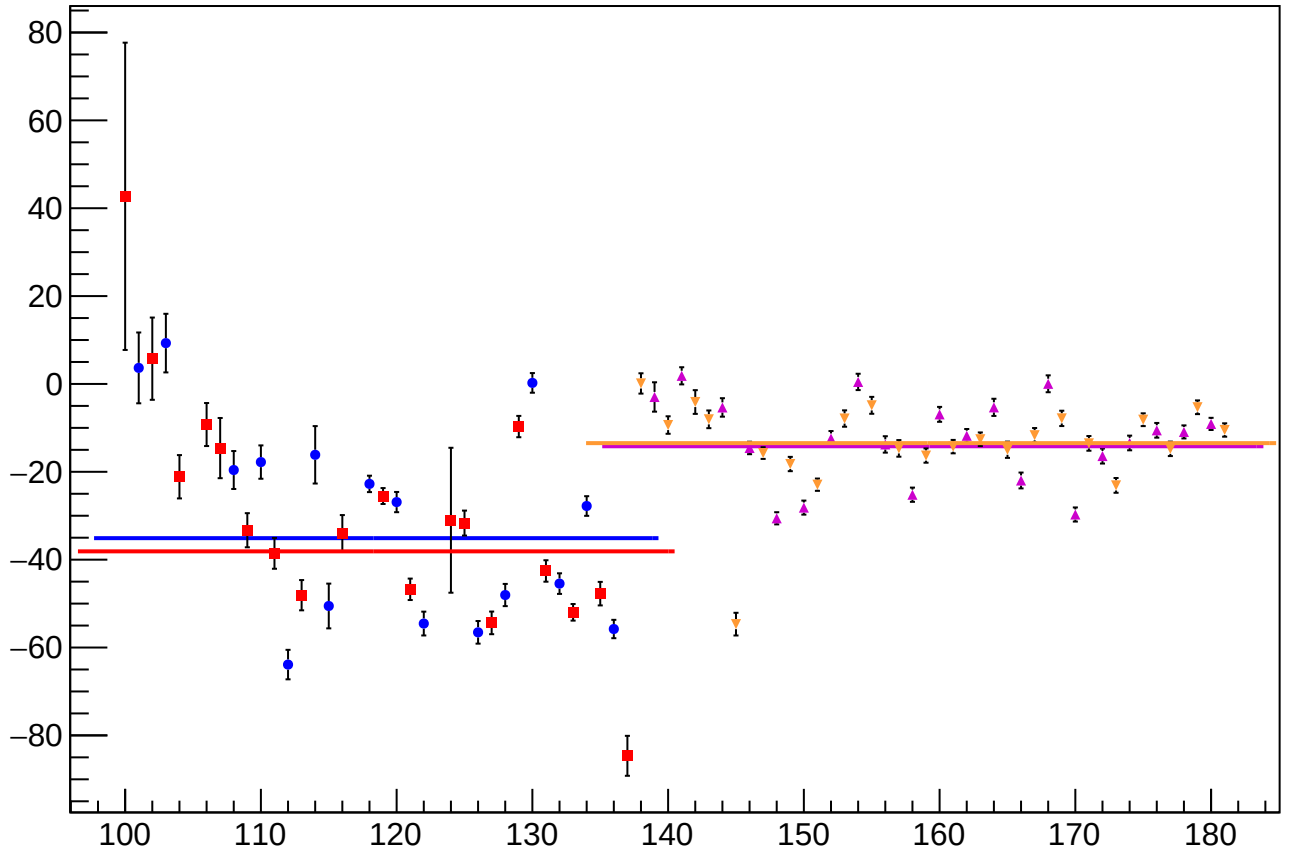
Left: 22.969+/-0.298 $\chi^2$/NDF: 4296.4/43

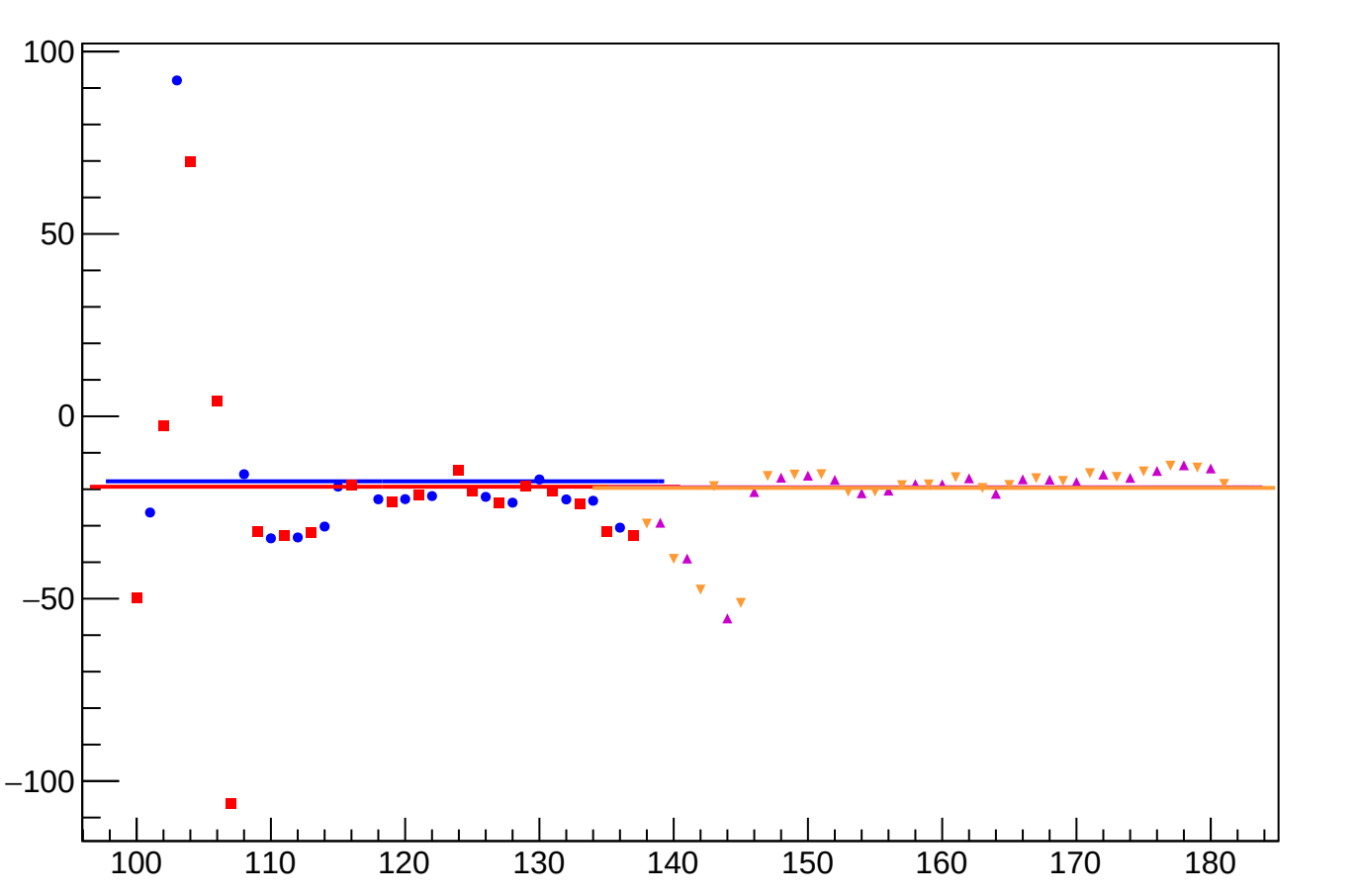
Right: 54.527+/-0.496 $\chi^2$/NDF: 5640.4/34

In: 32.149+/-0.365 $\chi^2$/NDF:5796.0/36

Out: 30.587+/-0.357 $\chi^2$/NDF:7109.3/41

All: 31.352+/-0.255 $\chi^2$/NDF: 12914.7/78


reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
100
110
120
130
140
150
160
170
180
Right In: -35.104+/-0.700 χ²/NDF: 773.2/15
Left Out: -13.473+/-0.356 χ²/NDF:492.8/22
Right Out: -38.109+/-0.714 χ²/NDF: 514.6/18
Left In: -14.186+/-0.370 χ²/NDF:655.1/20
Left: -13.816+/-0.257 χ²/NDF: 1149.8/43
Right: -36.577+/-0.500 χ²/NDF: 1296.8/34
In: -18.750+/-0.327 χ²/NDF:2126.3/36
Out: -18.390+/-0.319 χ²/NDF:1960.7/41
All: -18.565+/-0.228 χ²/NDF: 4087.6/78




Right In: -17.817+/-0.043 $\chi^2$/NDF: 426105.1/15

Left Out: -19.623+/-0.016 $\chi^2$/NDF:227086.2/22

Right Out: -19.311+/-0.046 $\chi^2$/NDF: 344626.7/18

Left In: -19.464+/-0.016 $\chi^2$/NDF:194050.8/20

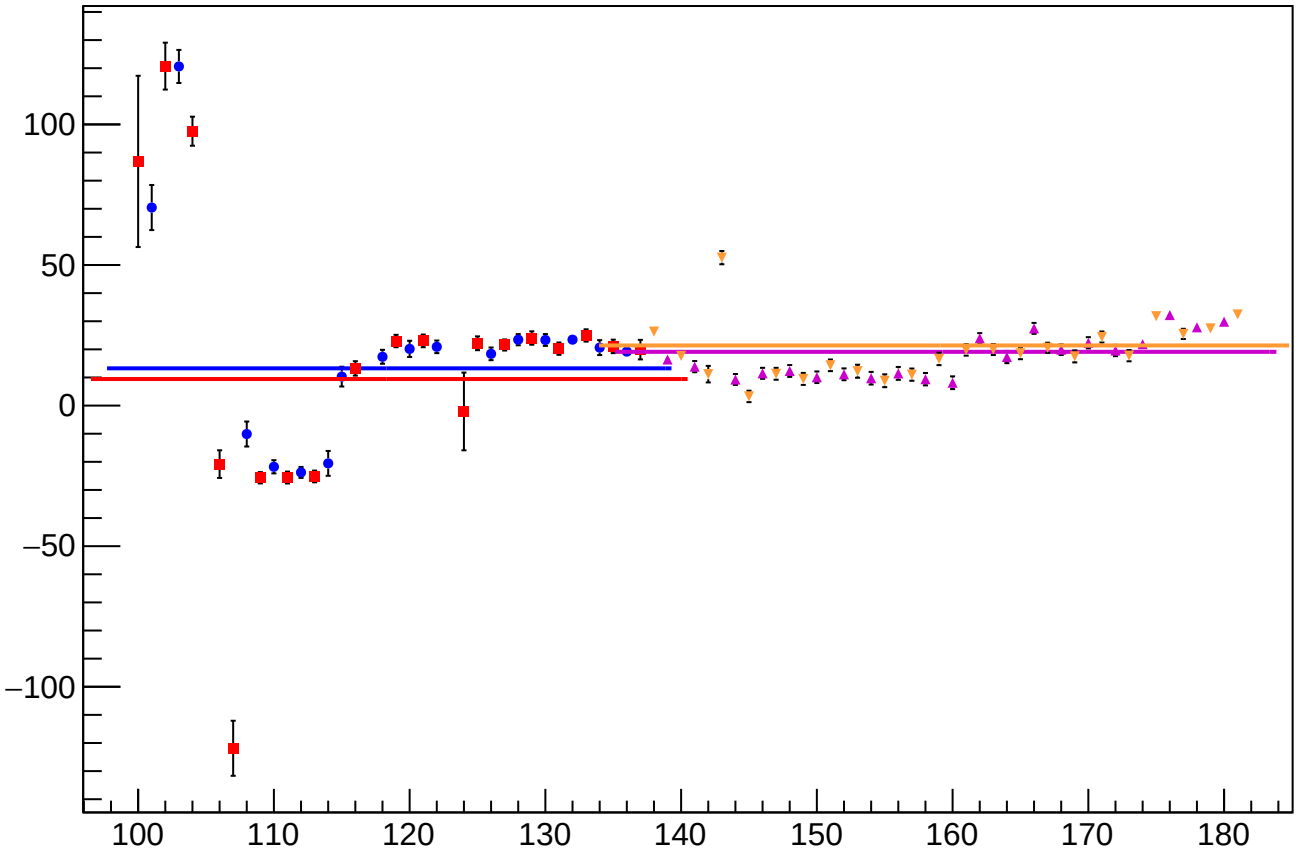
Left: -19.545+/-0.011 $\chi^2$/NDF: 421184.8/43

Right: -18.516+/-0.032 $\chi^2$/NDF: 771290.6/34

In: -19.256+/-0.015 $\chi^2$/NDF:621424.4/36

Out: -19.589+/-0.015 $\chi^2$/NDF:571753.8/41

All: -19.424+/-0.011 $\chi^2$/NDF: 1193415.0/78




Right In: 13.250+/-0.615 $\chi^2$/NDF: 1182.5/15

Left Out: 21.394+/-0.400 $\chi^2$/NDF:580.1/22

Right Out: 9.450+/-0.615 $\chi^2$/NDF: 1836.6/18

Left In: 19.117+/-0.415 $\chi^2$/NDF:355.8/20

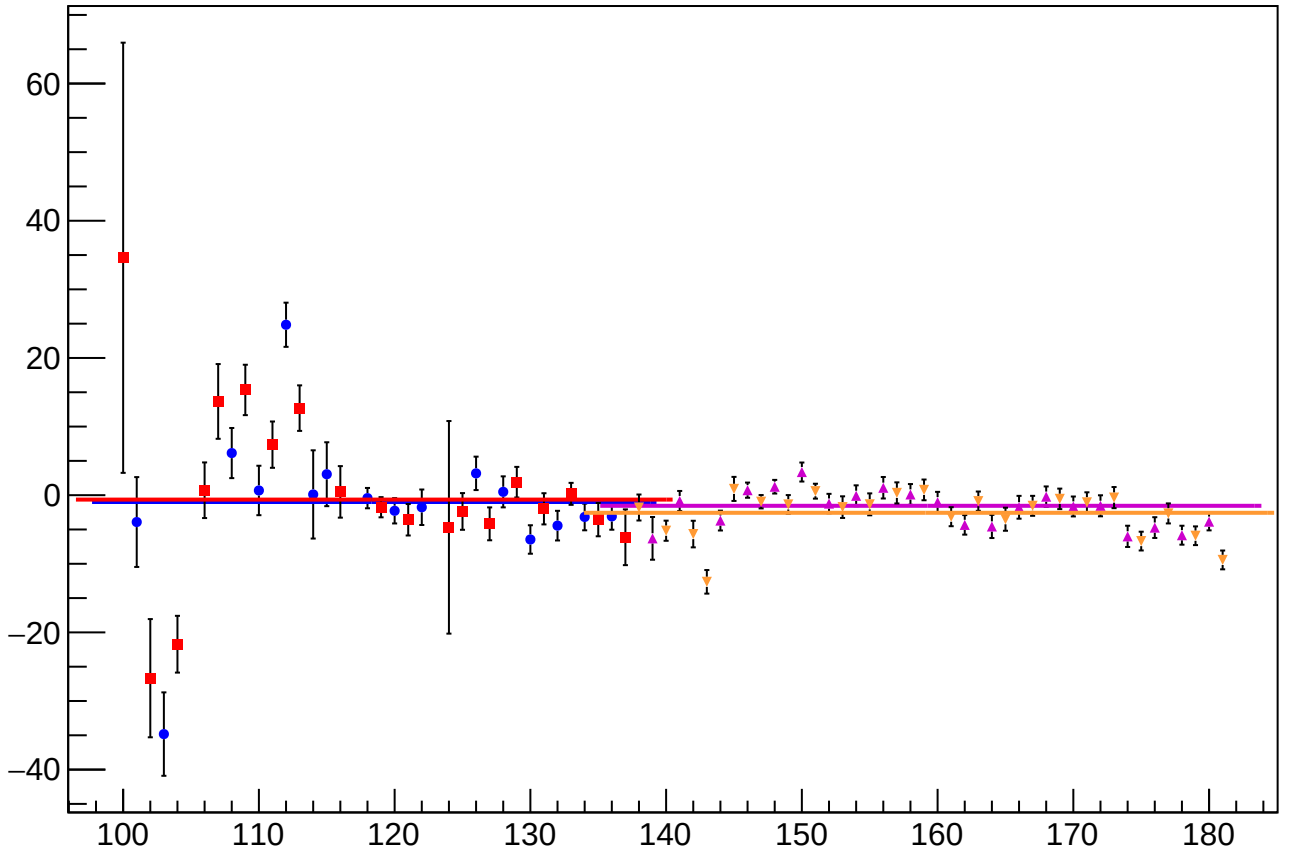
Left: 20.298+/-0.288 $\chi^2$/NDF: 951.5/43

Right: 11.351+/-0.435 $\chi^2$/NDF: 3038.2/34

In: 17.281+/-0.344 $\chi^2$/NDF:1600.9/36

Out: 17.845+/-0.335 $\chi^2$/NDF:2681.8/41

All: 17.570+/-0.240 $\chi^2$/NDF: 4284.1/78




Right In: -0.993+/-0.619 $\chi^2$/NDF: 116.3/15

Left Out: -2.568+/-0.301 $\chi^2$/NDF:113.0/22

Right Out: -0.644+/-0.636 $\chi^2$/NDF: 94.2/18

Left In: -1.549+/-0.314 $\chi^2$/NDF:68.0/20

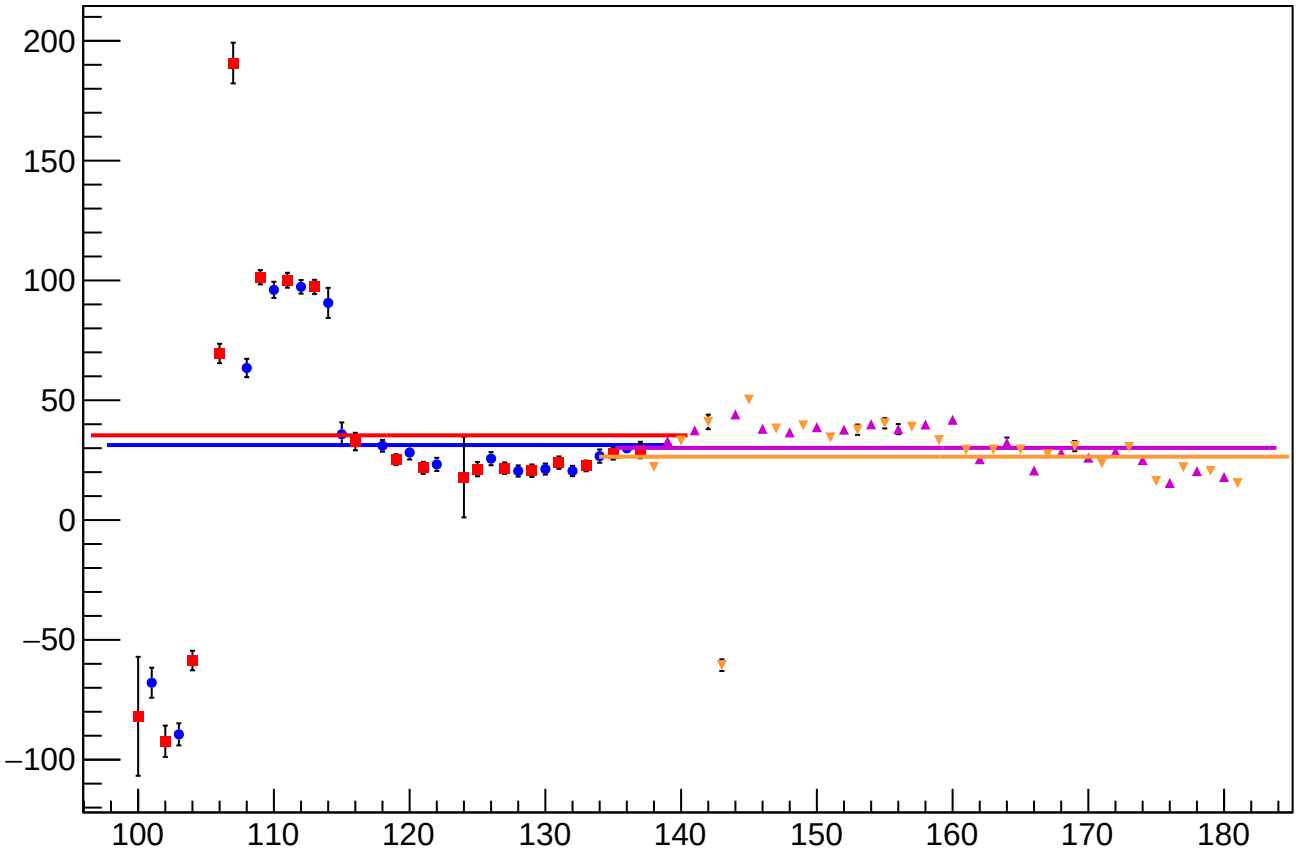
Left: -2.079+/-0.217 $\chi^2$/NDF: 186.6/43

Right: -0.823+/-0.443 $\chi^2$/NDF: 210.7/34

In: -1.436+/-0.280 $\chi^2$/NDF:185.0/36

Out: -2.216+/-0.272 $\chi^2$/NDF:214.8/41

All: -1.837+/-0.195 $\chi^2$/NDF: 403.8/78




Right In: 31.310+/-0.700 $\chi^2$/NDF: 2085.9/15

Left Out: 26.445+/-0.396 $\chi^2$/NDF:1836.2/22

Right Out: 35.366+/-0.717 $\chi^2$/NDF: 2897.7/18

Left In: 30.123+/-0.409 $\chi^2$/NDF:465.0/20

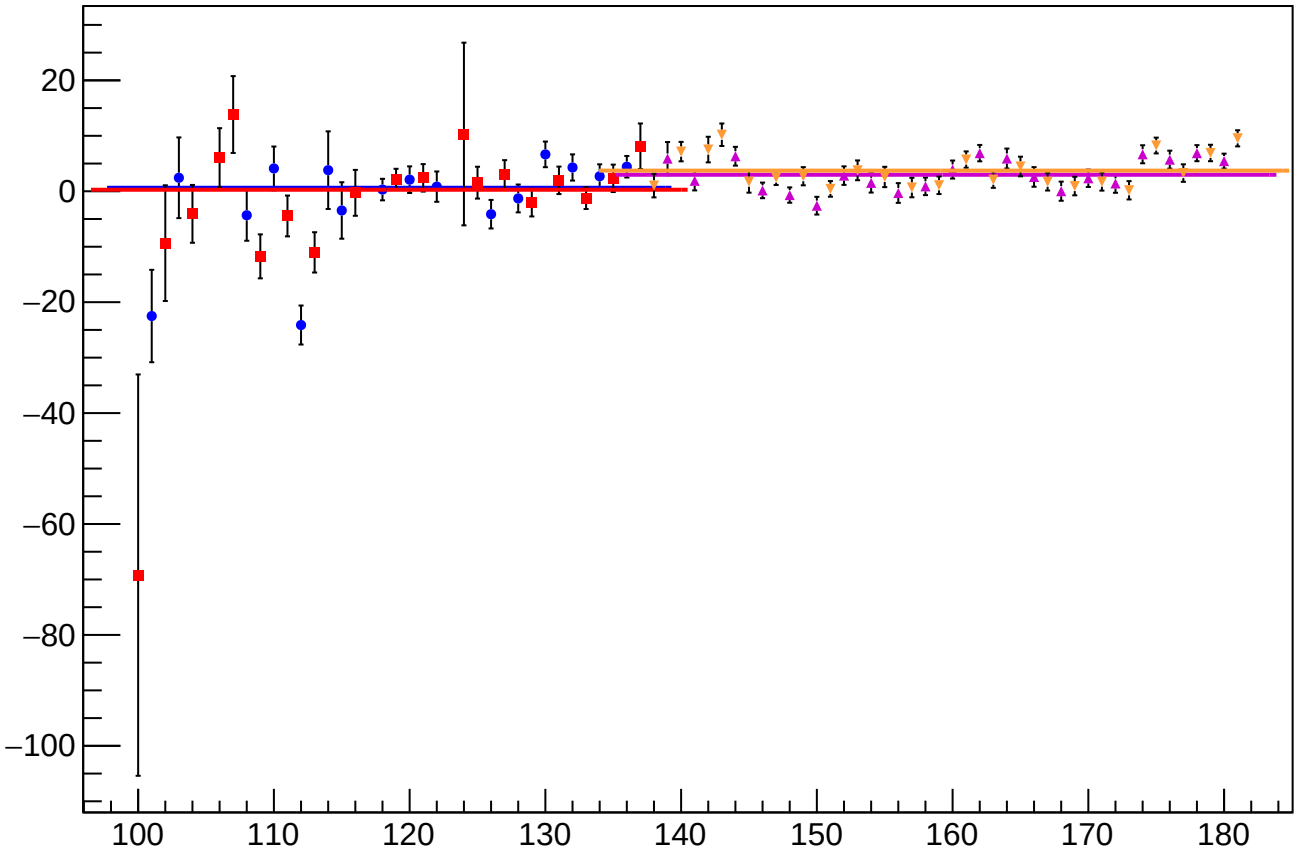
Left: 28.223+/-0.284 $\chi^2$/NDF: 2342.9/43

Right: 33.289+/-0.501 $\chi^2$/NDF: 4999.9/34

In: 30.424+/-0.353 $\chi^2$/NDF:2553.0/36

Out: 28.526+/-0.346 $\chi^2$/NDF:4852.5/41

All: 29.457+/-0.247 $\chi^2$/NDF: 7420.2/78




Right In: 0.632+/-0.705 $\chi^2$/NDF: 78.4/15

Left Out: 3.724+/-0.342 $\chi^2$/NDF:76.7/22

Right Out: 0.274+/-0.726 $\chi^2$/NDF: 40.5/18

Left In: 2.978+/-0.354 $\chi^2$/NDF:66.9/20

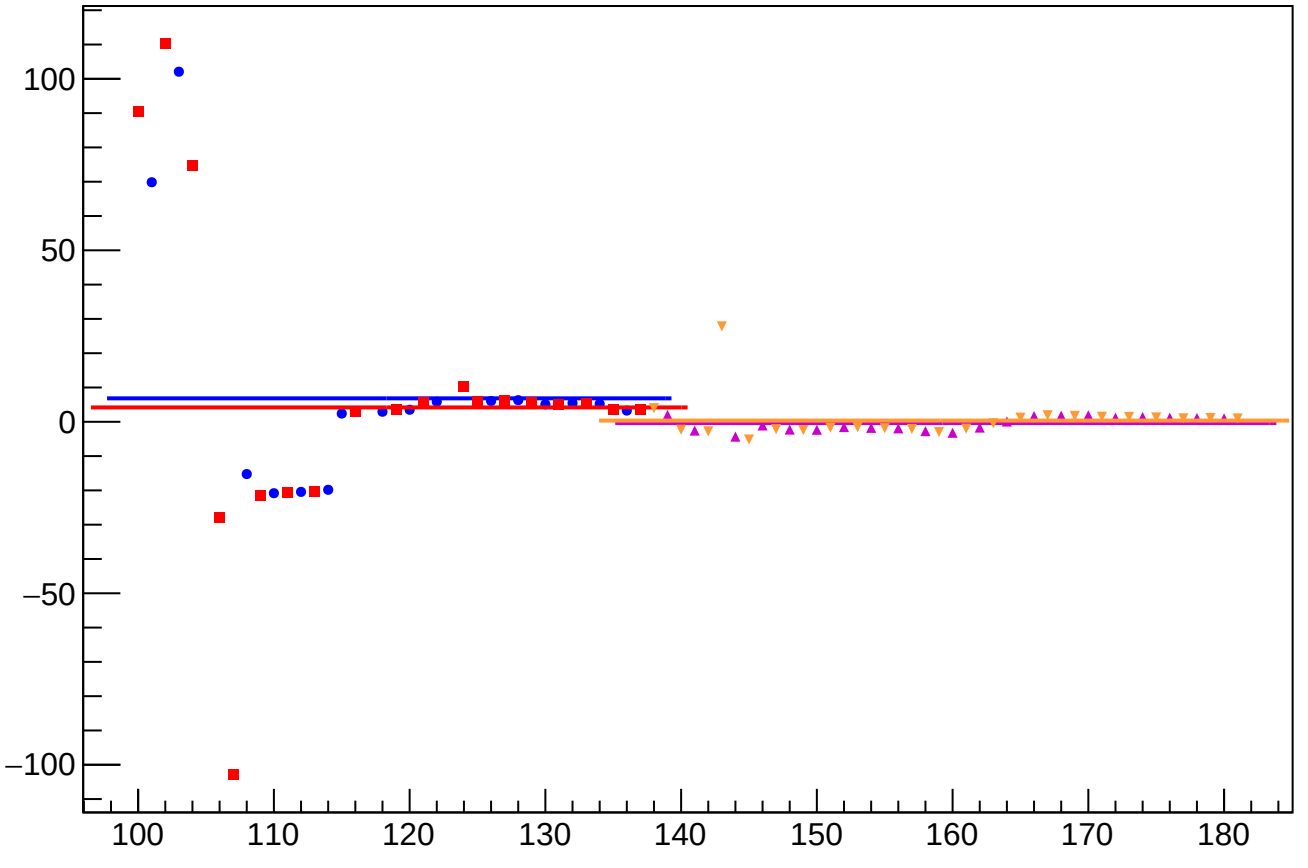
Left: 3.364+/-0.246 $\chi^2$/NDF: 145.9/43

Right: 0.459+/-0.506 $\chi^2$/NDF: 119.0/34

In: 2.504+/-0.317 $\chi^2$/NDF:154.1/36

Out: 3.098+/-0.309 $\chi^2$/NDF:135.7/41

All: 2.808+/-0.221 $\chi^2$/NDF: 291.6/78




Right In: 6.838+/-0.043 $\chi^2$/NDF: 320954.7/15

Left Out: 0.354+/-0.015 $\chi^2$/NDF:94223.2/22

Right Out: 4.190+/-0.046 $\chi^2$/NDF: 434546.8/18

Left In: -0.359+/-0.016 $\chi^2$/NDF:14962.0/20

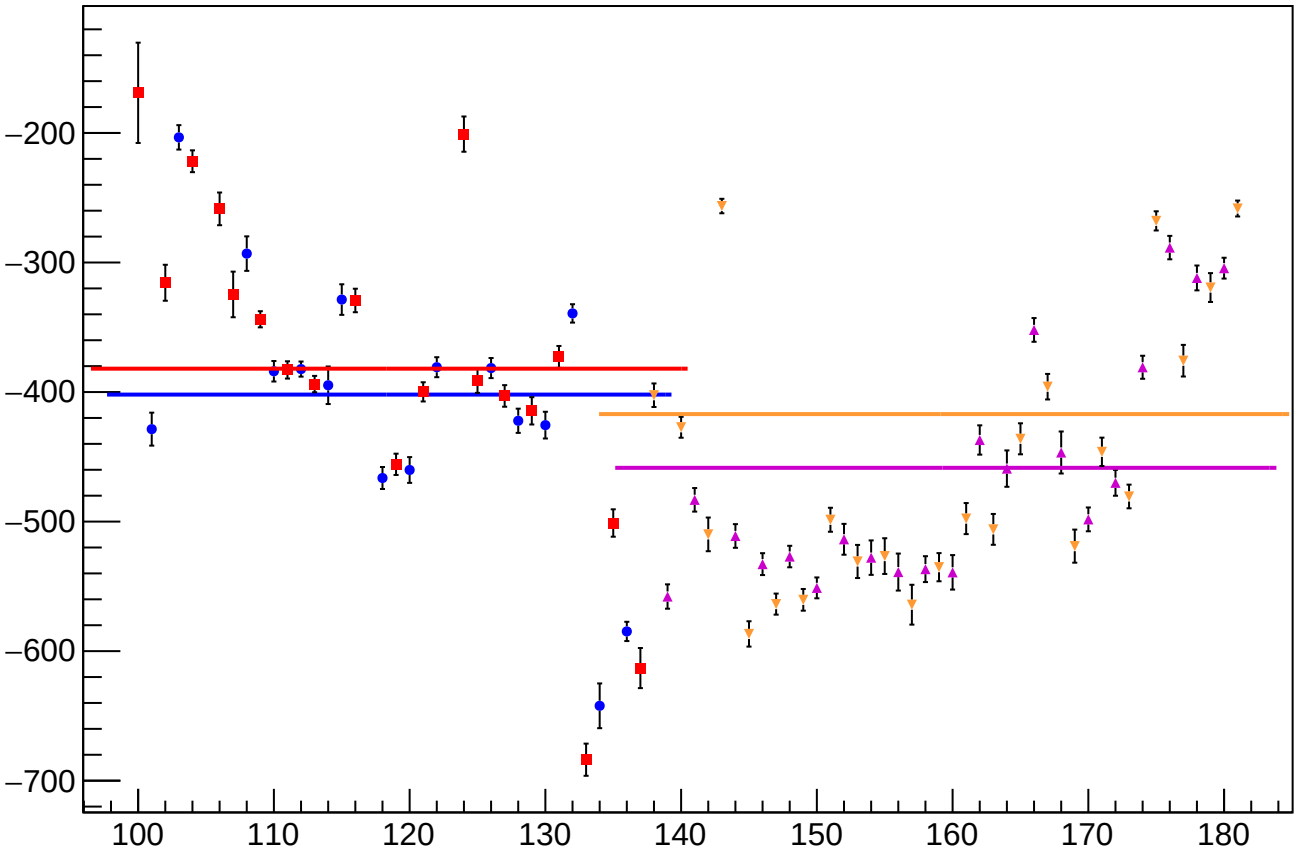
Left: 0.004+/-0.011 $\chi^2$/NDF: 110244.6/43

Right: 5.616+/-0.031 $\chi^2$/NDF: 757263.1/34

In: 0.486+/-0.015 $\chi^2$/NDF:360817.8/36

Out: 0.735+/-0.015 $\chi^2$/NDF:534953.9/41

All: 0.611+/-0.010 $\chi^2$/NDF: 895915.8/78




Right In: -401.961+/-2.236 $\chi^2$/NDF: 1563.3/15

Left Out: -417.011+/-1.968 $\chi^2$/NDF:3619.8/22

Right Out: -381.949+/-2.124 $\chi^2$/NDF: 1817.4/18

Left In: -458.494+/-2.160 $\chi^2$/NDF:1798.5/20

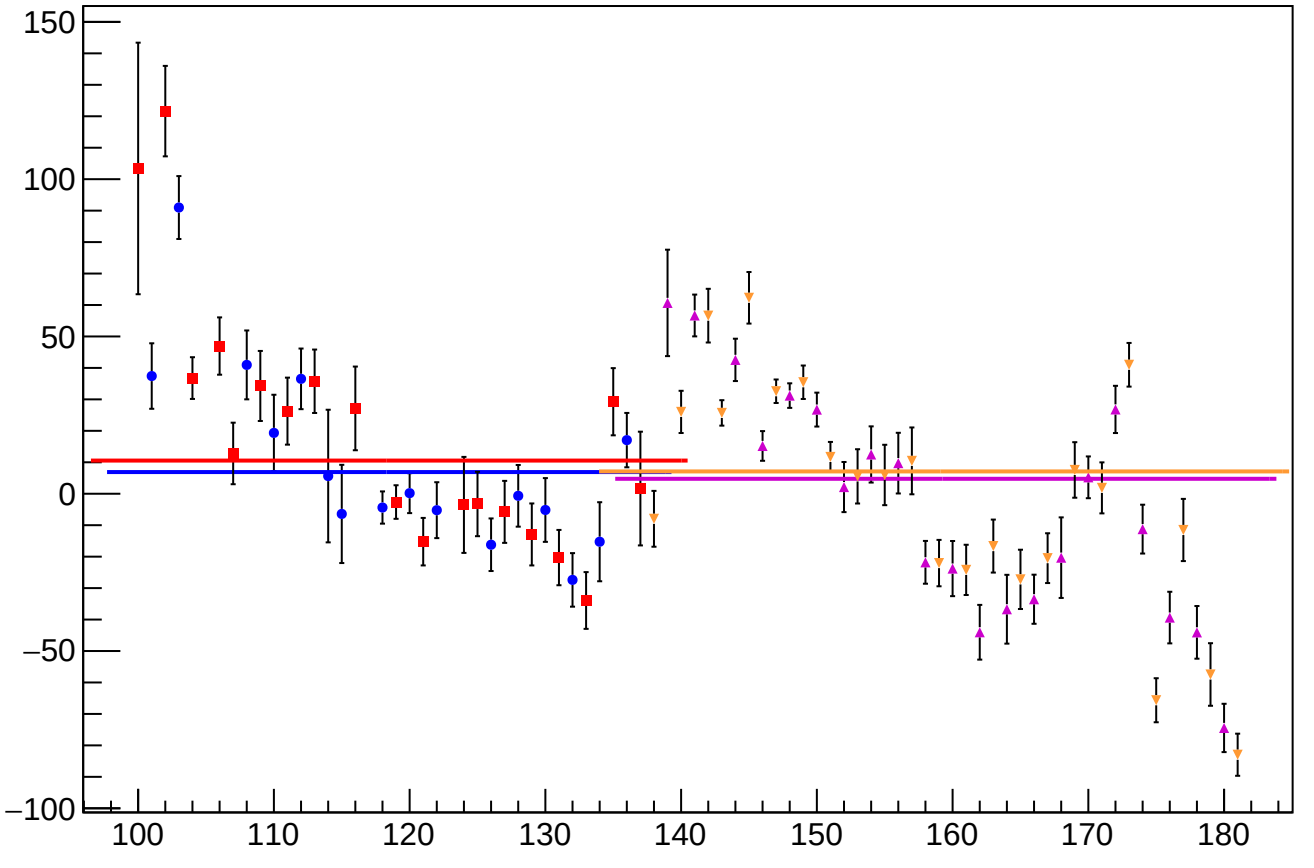
Left: -435.826+/-1.455 $\chi^2$/NDF: 5619.8/43

Right: -391.443+/-1.540 $\chi^2$/NDF: 3422.8/34

In: -431.201+/-1.554 $\chi^2$/NDF:3692.4/36

Out: -400.816+/-1.444 $\chi^2$/NDF:5583.8/41

All: -414.896+/-1.058 $\chi^2$/NDF: 9481.4/78




Right In: 6.889+/-2.264 $\chi^2$/NDF: 138.4/15

Left Out: 7.094+/-1.420 $\chi^2$/NDF:610.2/22

Right Out: 10.544+/-2.197 $\chi^2$/NDF: 180.0/18

Left In: 4.750+/-1.554 $\chi^2$/NDF:453.8/20

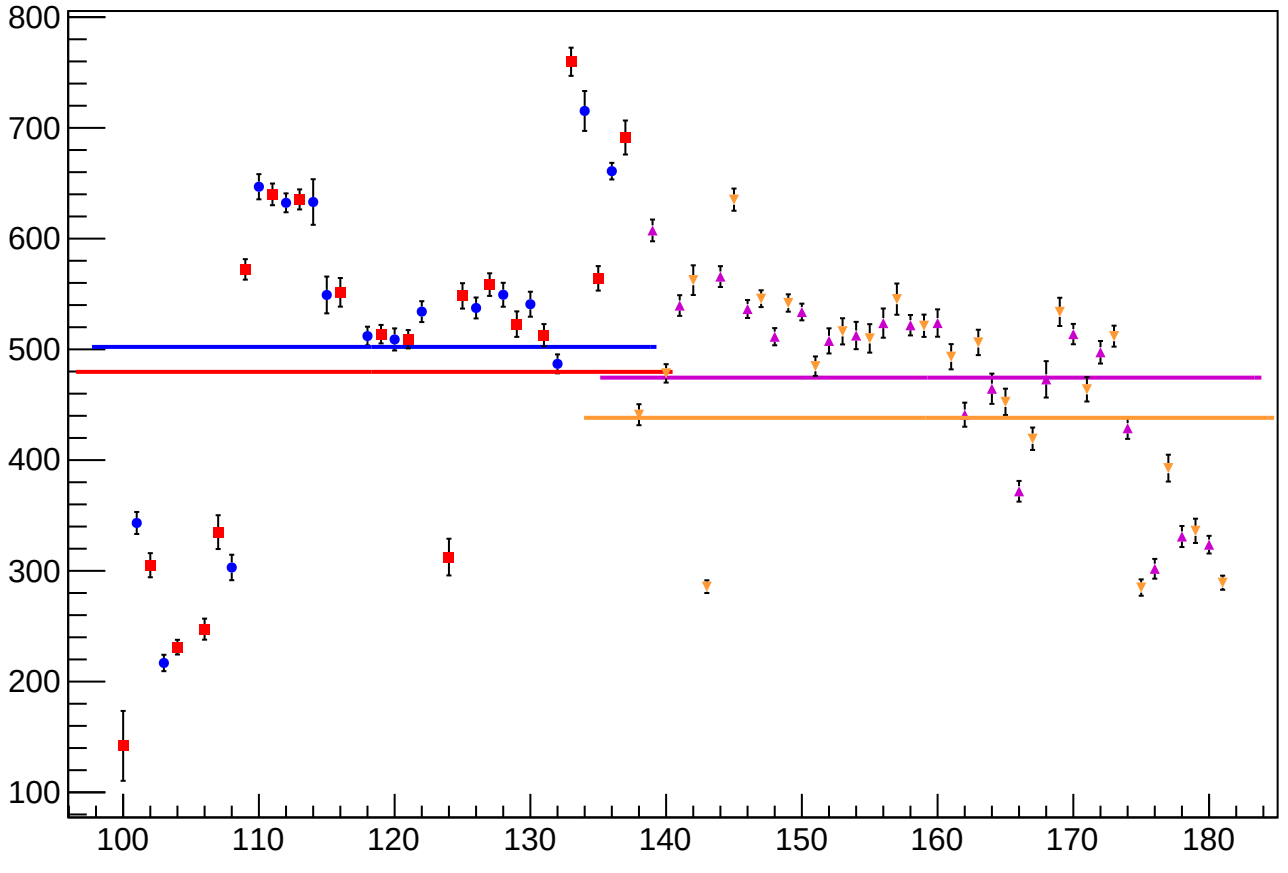
Left: 6.028+/-1.048 $\chi^2$/NDF: 1065.3/43

Right: 8.772+/-1.577 $\chi^2$/NDF: 319.8/34

In: 5.435+/-1.281 $\chi^2$/NDF:592.9/36

Out: 8.111+/-1.193 $\chi^2$/NDF:792.0/41

All: 6.869+/-0.873 $\chi^2$/NDF: 1387.2/78




Right In: 502.213+/-2.493 $\chi^2$/NDF: 3135.2/15

Left Out: 438.191+/-1.954 $\chi^2$/NDF:3070.8/22

Right Out: 479.679+/-2.399 $\chi^2$/NDF: 4138.5/18

Left In: 474.467+/-2.124 $\chi^2$/NDF:1679.1/20

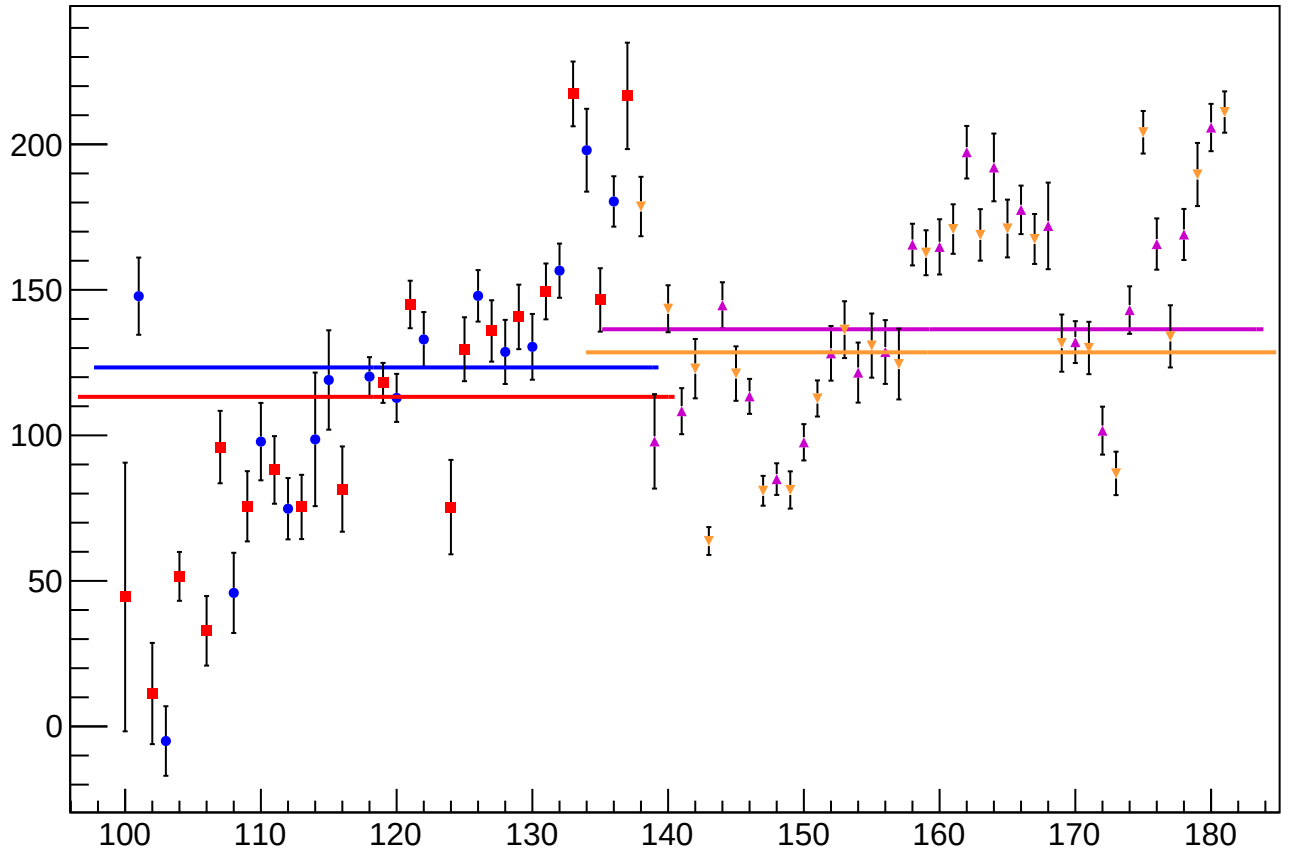
Left: 454.817+/-1.438 $\chi^2$/NDF: 4907.9/43

Right: 490.515+/-1.729 $\chi^2$/NDF: 7316.1/34

In: 486.137+/-1.617 $\chi^2$/NDF:4886.0/36

Out: 454.731+/-1.515 $\chi^2$/NDF:7389.1/41

All: 469.414+/-1.105 $\chi^2$/NDF: 12476.1/78




Right In: 123.344+/-2.627 $\chi^2$/NDF: 271.4/15

Left Out: 128.534+/-1.651 $\chi^2$/NDF:769.3/22

Right Out: 113.235+/-2.545 $\chi^2$/NDF: 345.8/18

Left In: 136.459+/-1.792 $\chi^2$/NDF:406.0/20

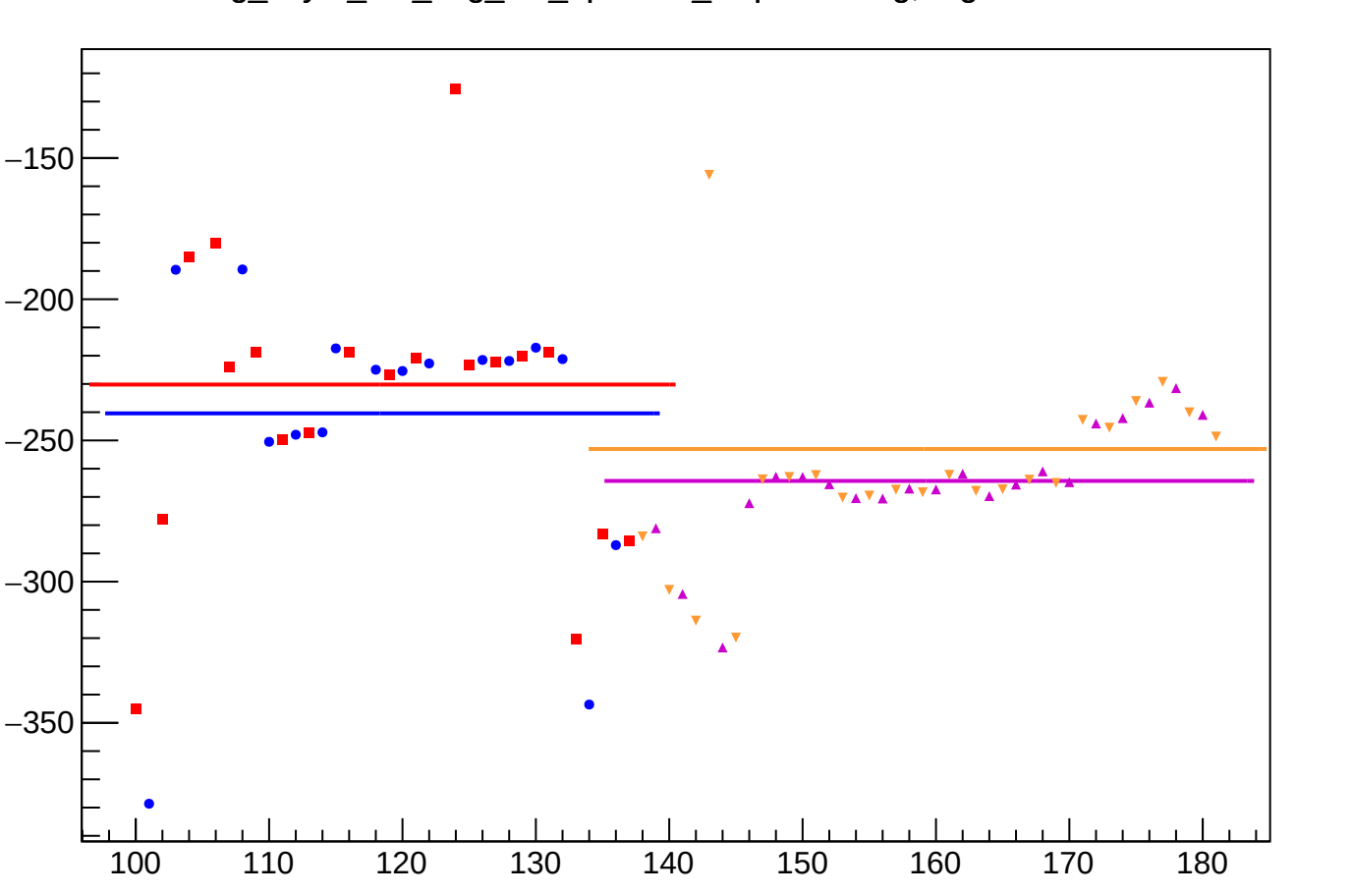
Left: 132.171+/-1.214 $\chi^2$/NDF: 1185.9/43

Right: 118.129+/-1.828 $\chi^2$/NDF: 624.8/34

In: 132.294+/-1.480 $\chi^2$/NDF:694.4/36

Out: 124.004+/-1.385 $\chi^2$/NDF:1140.5/41

All: 127.873+/-1.011 $\chi^2$/NDF: 1851.6/78




Right In: -240.411+/-0.151 $\chi^2$/NDF: 134152.1/15

Left Out: -253.023+/-0.078 $\chi^2$/NDF:250370.1/22

Right Out: -230.207+/-0.146 $\chi^2$/NDF: 83431.4/18

Left In: -264.333+/-0.082 $\chi^2$/NDF:57044.0/20

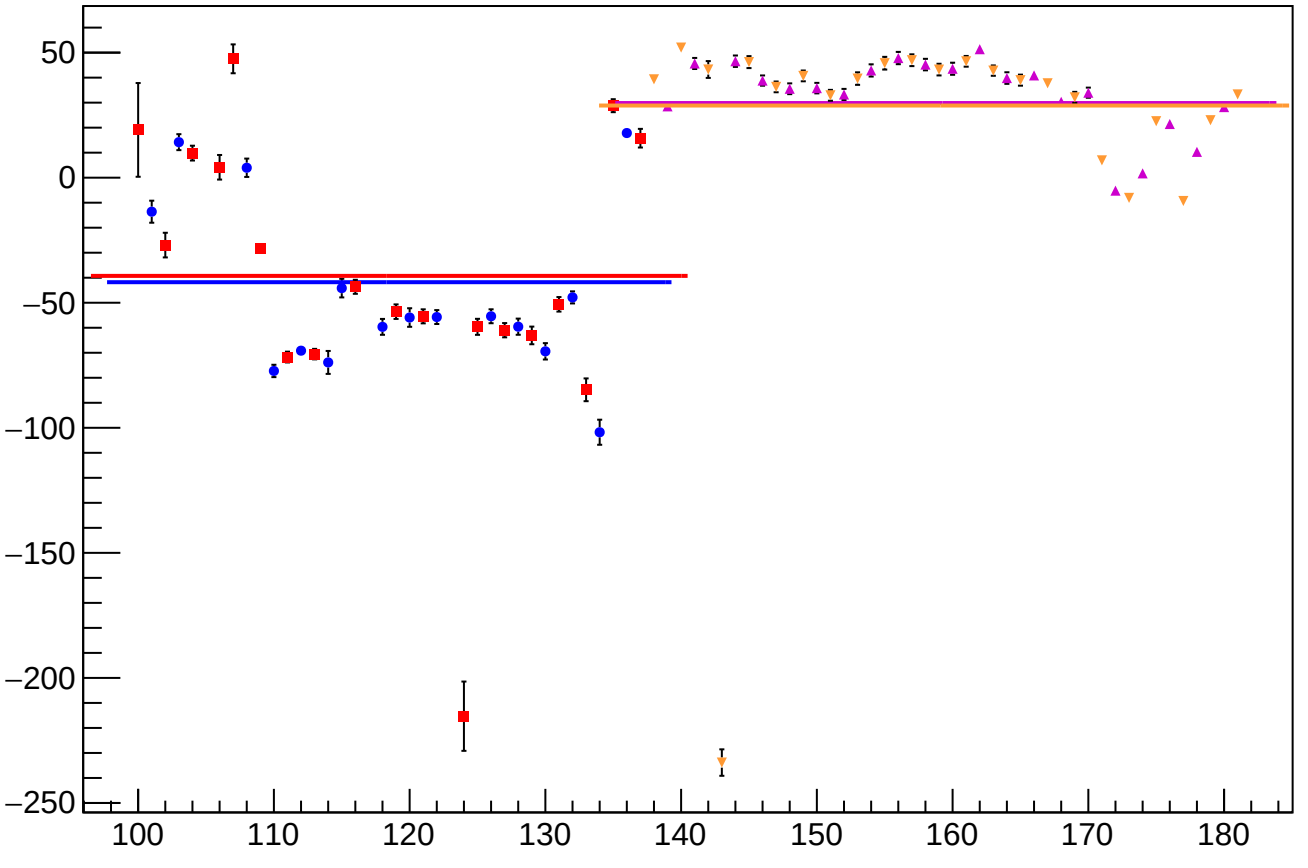
Left: -258.379+/-0.057 $\chi^2$/NDF: 317395.4/43

Right: -235.167+/-0.105 $\chi^2$/NDF: 219942.1/34

In: -258.850+/-0.072 $\chi^2$/NDF:210639.5/36

Out: -247.994+/-0.069 $\chi^2$/NDF:352711.7/41

All: -253.165+/-0.050 $\chi^2$/NDF: 575219.0/78




Right In: -41.788+/-0.723 $\chi^2$/NDF: 2405.5/15

Left Out: 28.848+/-0.411 $\chi^2$/NDF:4102.3/22

Right Out: -39.263+/-0.680 $\chi^2$/NDF: 2478.3/18

Left In: 29.842+/-0.422 $\chi^2$/NDF:1323.6/20

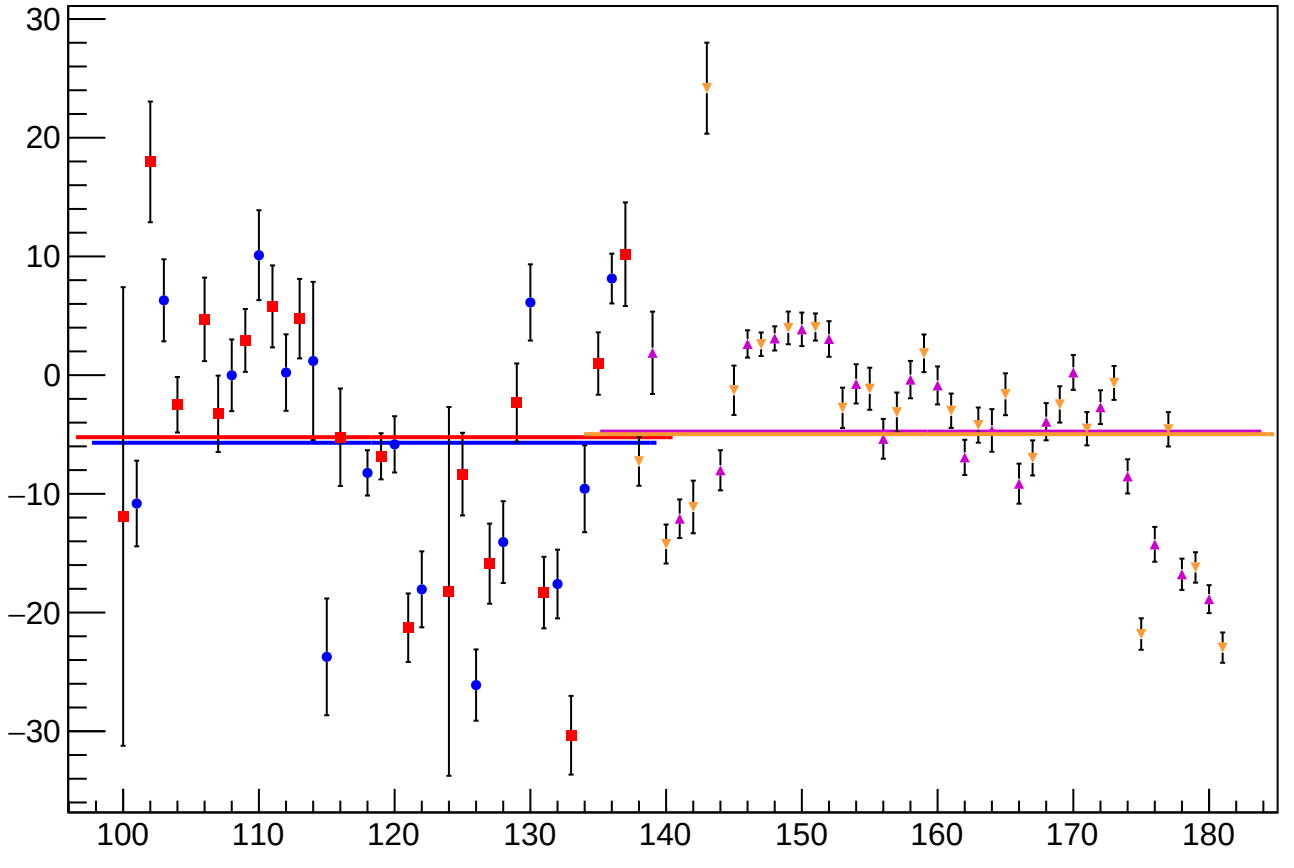
Left: 29.332+/-0.295 $\chi^2$/NDF: 5428.8/43

Right: -40.447+/-0.495 $\chi^2$/NDF: 4890.2/34

In: 11.625+/-0.365 $\chi^2$/NDF:11045.6/36

Out: 10.598+/-0.352 $\chi^2$/NDF:13933.0/41

All: 11.093+/-0.253 $\chi^2$/NDF: 24982.7/78




Right In: -5.697+/-0.753 $\chi^2$/NDF: 196.7/15

Left Out: -4.973+/-0.312 $\chi^2$/NDF:746.5/22

Right Out: -5.227+/-0.740 $\chi^2$/NDF: 197.3/18

Left In: -4.759+/-0.321 $\chi^2$/NDF:510.5/20

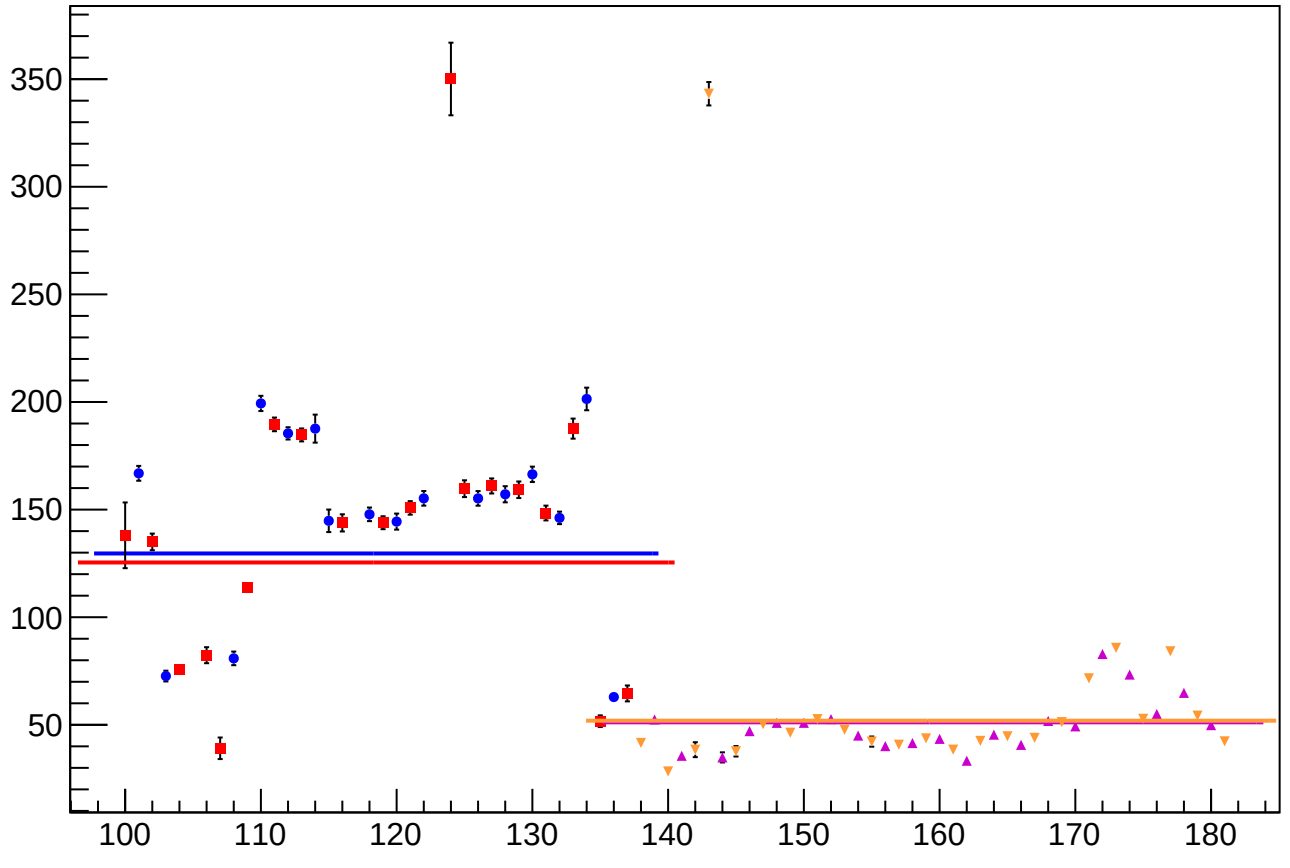
Left: -4.869+/-0.224 $\chi^2$/NDF: 1257.2/43

Right: -5.458+/-0.528 $\chi^2$/NDF: 394.3/34

In: -4.903+/-0.295 $\chi^2$/NDF:708.6/36

Out: -5.012+/-0.288 $\chi^2$/NDF:943.9/41

All: -4.959+/-0.206 $\chi^2$/NDF: 1652.5/78




Right In: 129.621+/-0.801 $\chi^2$/NDF: 3624.4/15

Left Out: 51.923+/-0.407 $\chi^2$/NDF:4051.0/22

Right Out: 125.435+/-0.790 $\chi^2$/NDF: 3503.2/18

Left In: 51.154+/-0.417 $\chi^2$/NDF:815.7/20

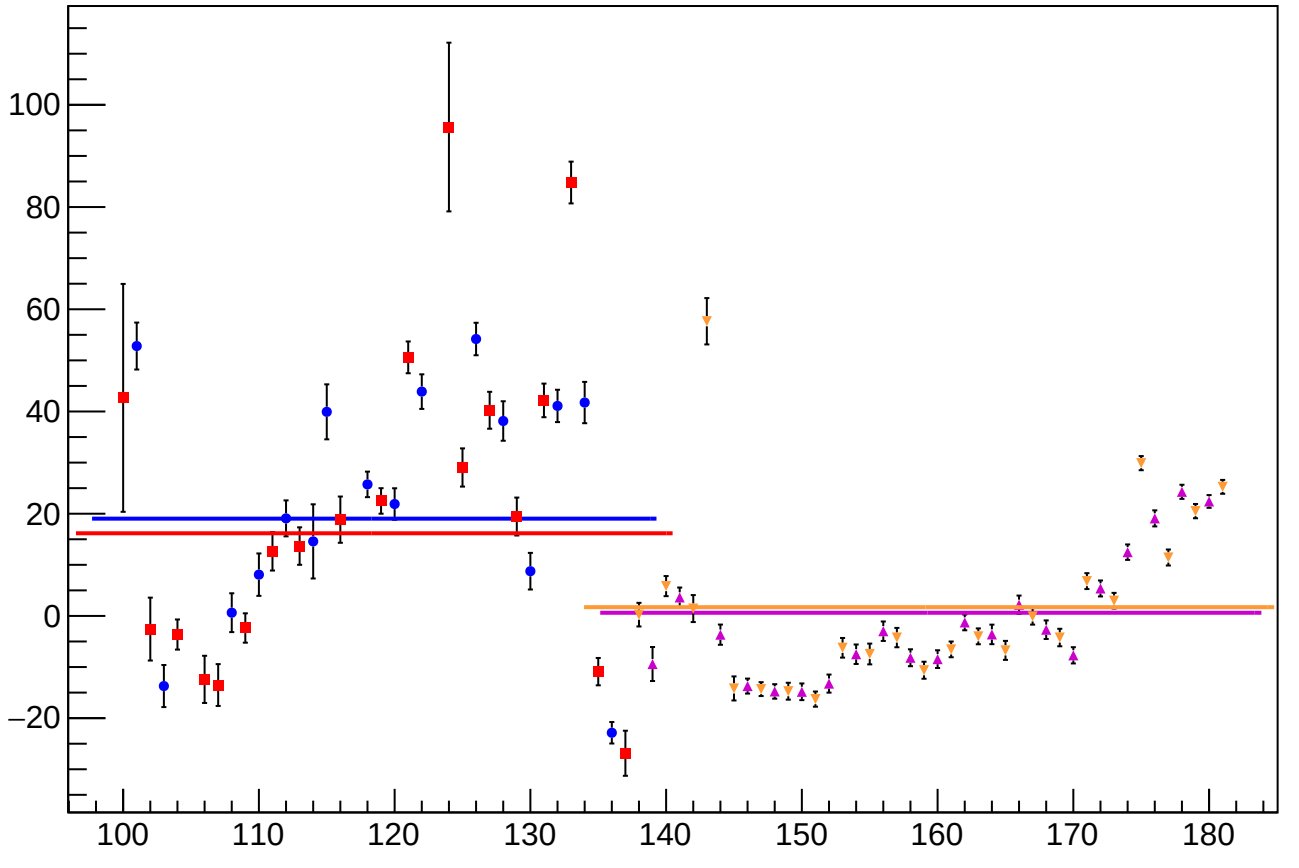
Left: 51.547+/-0.291 $\chi^2$/NDF: 4868.4/43

Right: 127.500+/-0.562 $\chi^2$/NDF: 7141.4/34

In: 67.870+/-0.370 $\chi^2$/NDF:11999.3/36

Out: 67.343+/-0.362 $\chi^2$/NDF:14400.2/41

All: 67.601+/-0.258 $\chi^2$/NDF: 26400.5/78




Right In: 19.035+/-0.860 $\chi^2$/NDF: 858.1/15

Left Out: 1.714+/-0.353 $\chi^2$/NDF:1714.4/22

Right Out: 16.173+/-0.846 $\chi^2$/NDF: 941.3/18

Left In: 0.621+/-0.362 $\chi^2$/NDF:1304.3/20

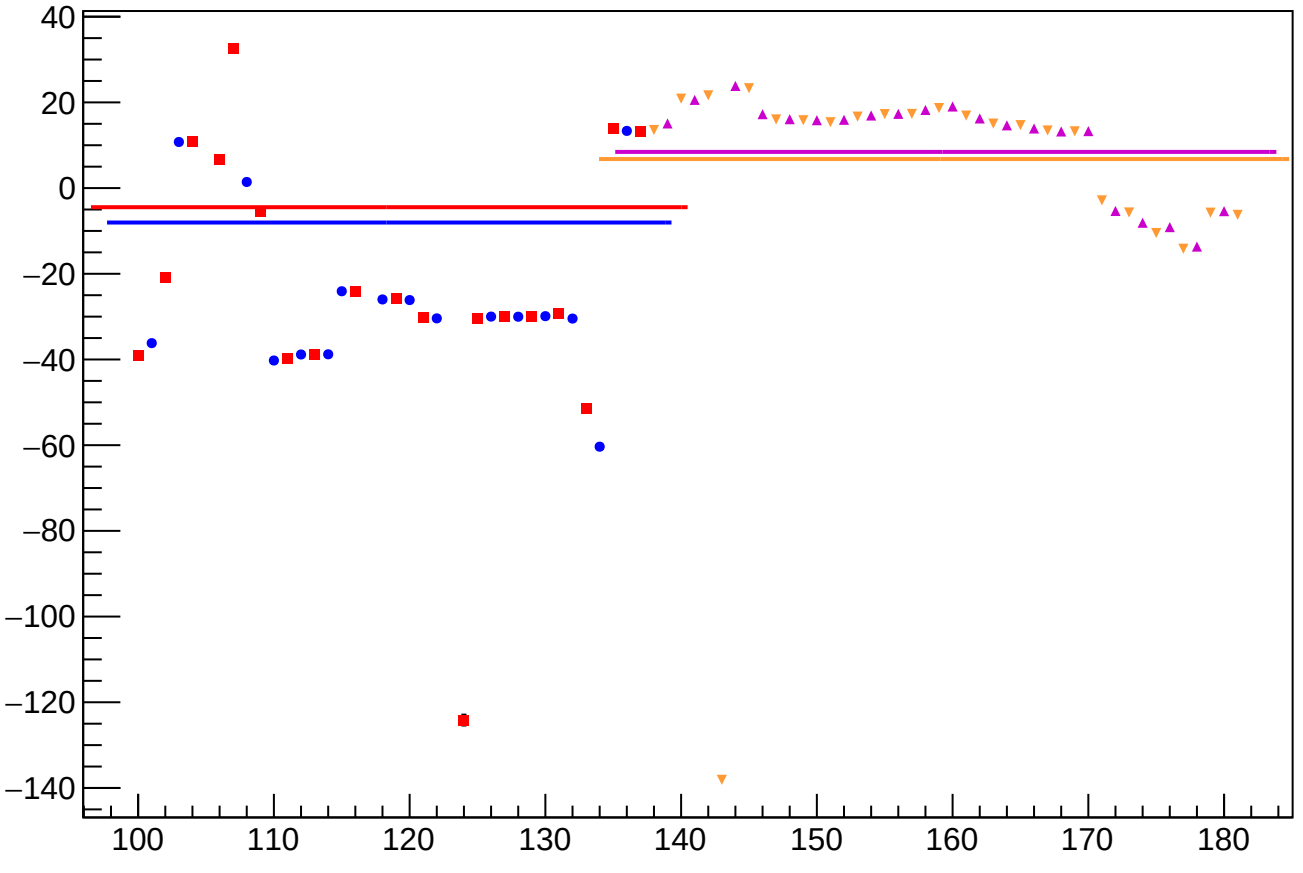
Left: 1.180+/-0.253 $\chi^2$/NDF: 3023.4/43

Right: 17.581+/-0.603 $\chi^2$/NDF: 1804.9/34

In: 3.387+/-0.333 $\chi^2$/NDF:2552.1/36

Out: 3.860+/-0.326 $\chi^2$/NDF:2904.4/41

All: 3.629+/-0.233 $\chi^2$/NDF: 5457.6/78




Right In: -8.038+/-0.046 $\chi^2$/NDF: 267883.6/15

Left Out: 6.777+/-0.016 $\chi^2$/NDF:974430.1/22

Right Out: -4.461+/-0.047 $\chi^2$/NDF: 228422.2/18

Left In: 8.443+/-0.016 $\chi^2$/NDF:537888.8/20

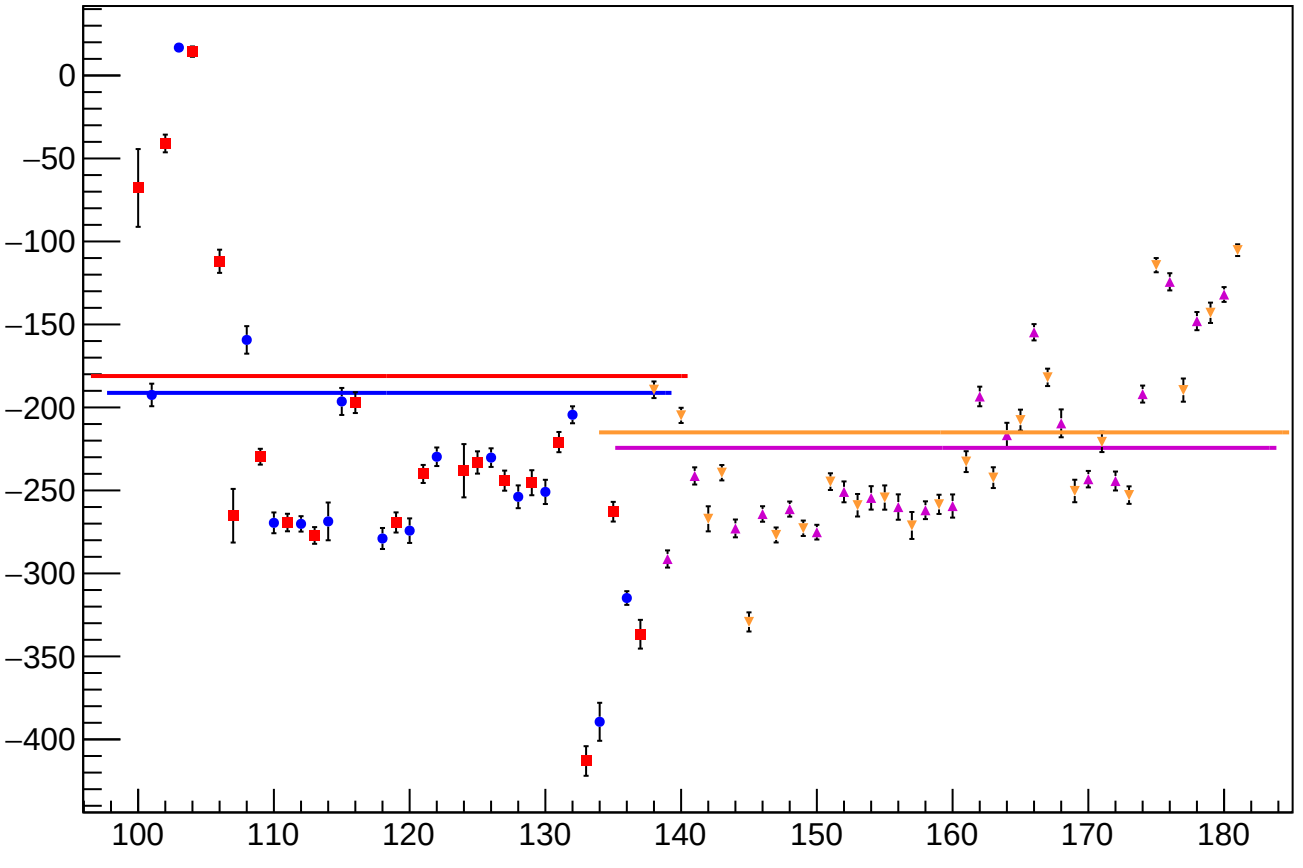
Left: 7.604+/-0.011 $\chi^2$/NDF: 1517778.3/43

Right: -6.287+/-0.033 $\chi^2$/NDF: 499287.4/34

In: 6.652+/-0.015 $\chi^2$/NDF:921045.7/36

Out: 5.616+/-0.015 $\chi^2$/NDF:1254560.1/41

All: 6.132+/-0.011 $\chi^2$/NDF: 2177965.8/78




Right In: -191.225+/-1.419 $\chi^2$/NDF: 7224.7/15

Left Out: -215.025+/-1.132 $\chi^2$/NDF:2866.8/22

Right Out: -181.080+/-1.383 $\chi^2$/NDF: 7374.0/18

Left In: -224.357+/-1.191 $\chi^2$/NDF:1956.3/20

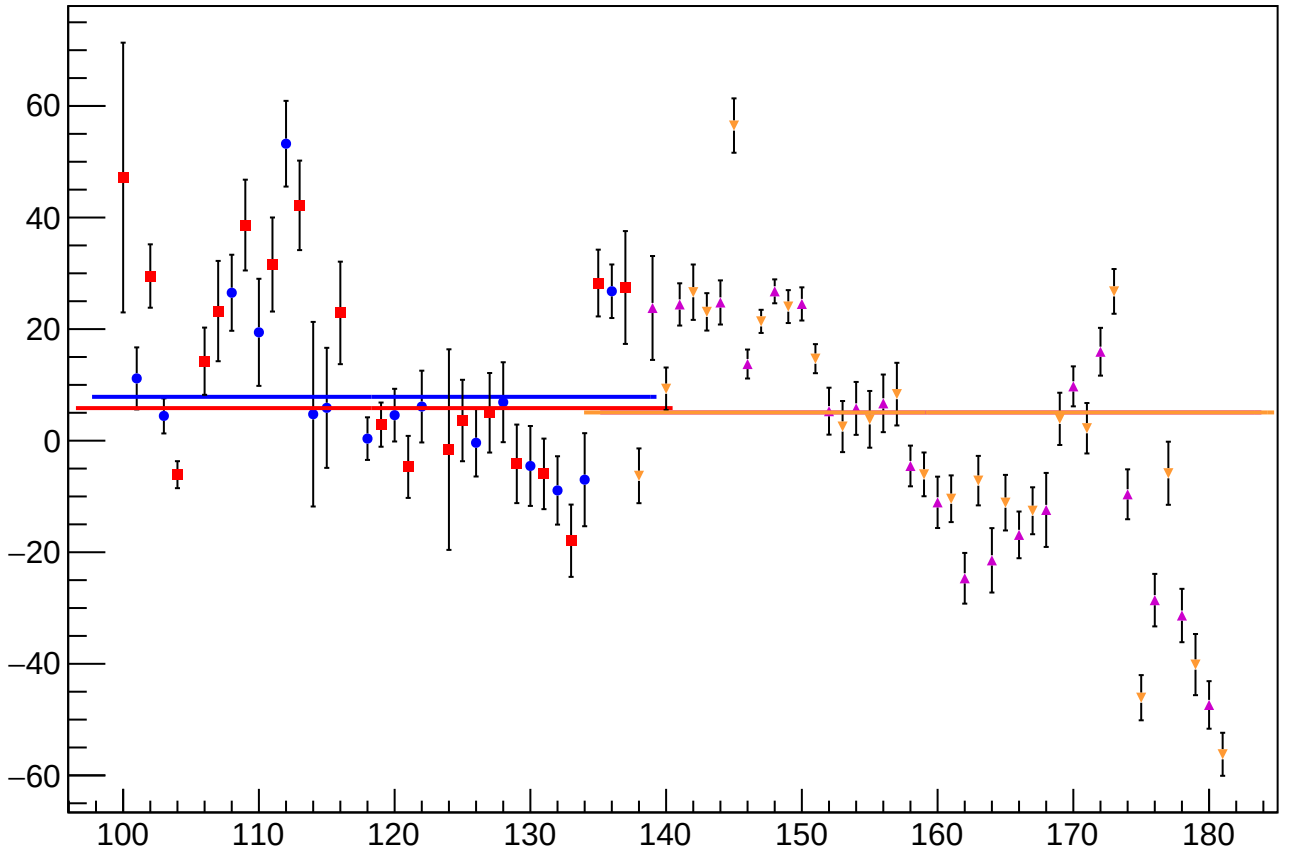
Left: -219.452+/-0.821 $\chi^2$/NDF: 4855.4/43

Right: -186.022+/-0.990 $\chi^2$/NDF: 14624.9/34

In: -210.653+/-0.912 $\chi^2$/NDF:9500.9/36

Out: -201.402+/-0.876 $\chi^2$/NDF:10601.7/41

All: -205.839+/-0.632 $\chi^2$/NDF: 20156.1/78




Right In: 7.859+/-1.438 $\chi^2$/NDF: 80.9/15

Left Out: 5.060+/-0.813 $\chi^2$/NDF:854.2/22

Right Out: 5.839+/-1.355 $\chi^2$/NDF: 141.9/18

Left In: 5.063+/-0.855 $\chi^2$/NDF:608.4/20

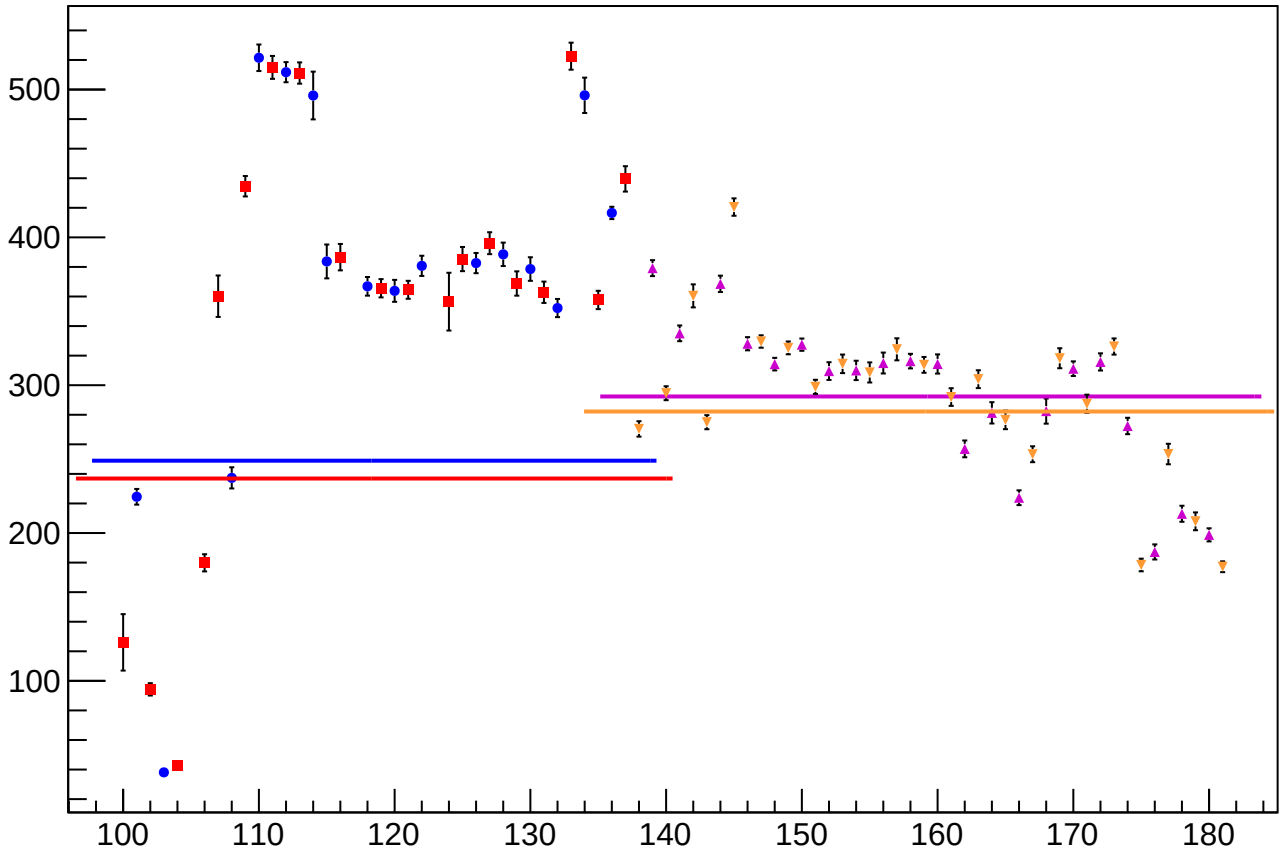
Left: 5.061+/-0.589 $\chi^2$/NDF: 1462.5/43

Right: 6.789+/-0.986 $\chi^2$/NDF: 223.8/34

In: 5.792+/-0.735 $\chi^2$/NDF:692.1/36

Out: 5.266+/-0.697 $\chi^2$/NDF:996.3/41

All: 5.515+/-0.506 $\chi^2$/NDF: 1688.6/78




Right In: 248.932+/-1.422 $\chi^2$/NDF: 15302.2/15

Left Out: 282.209+/-1.119 $\chi^2$/NDF:2732.0/22

Right Out: 236.871+/-1.407 $\chi^2$/NDF: 15657.3/18

Left In: 292.376+/-1.169 $\chi^2$/NDF:2090.8/20

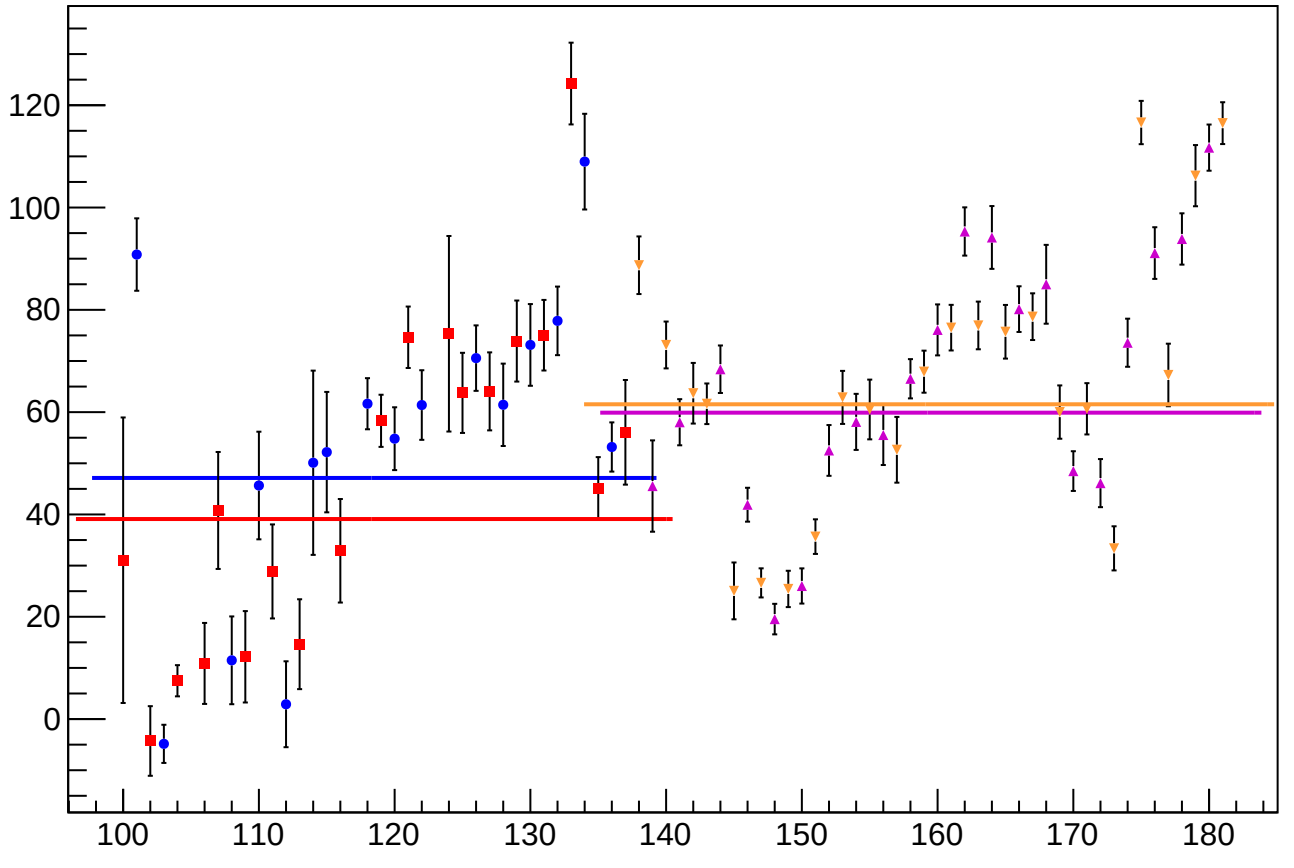
Left: 287.067+/-0.808 $\chi^2$/NDF: 4862.3/43

Right: 242.838+/-1.000 $\chi^2$/NDF: 30995.9/34

In: 274.845+/-0.903 $\chi^2$/NDF:17950.0/36

Out: 264.644+/-0.876 $\chi^2$/NDF:19025.7/41

All: 269.586+/-0.629 $\chi^2$/NDF: 37041.4/78




Right In: 47.137+/-1.668 $\chi^2$/NDF: 385.3/15

Left Out: 61.539+/-0.943 $\chi^2$/NDF:882.8/22

Right Out: 39.105+/-1.596 $\chi^2$/NDF: 416.5/18

Left In: 59.897+/-0.985 $\chi^2$/NDF:691.9/20

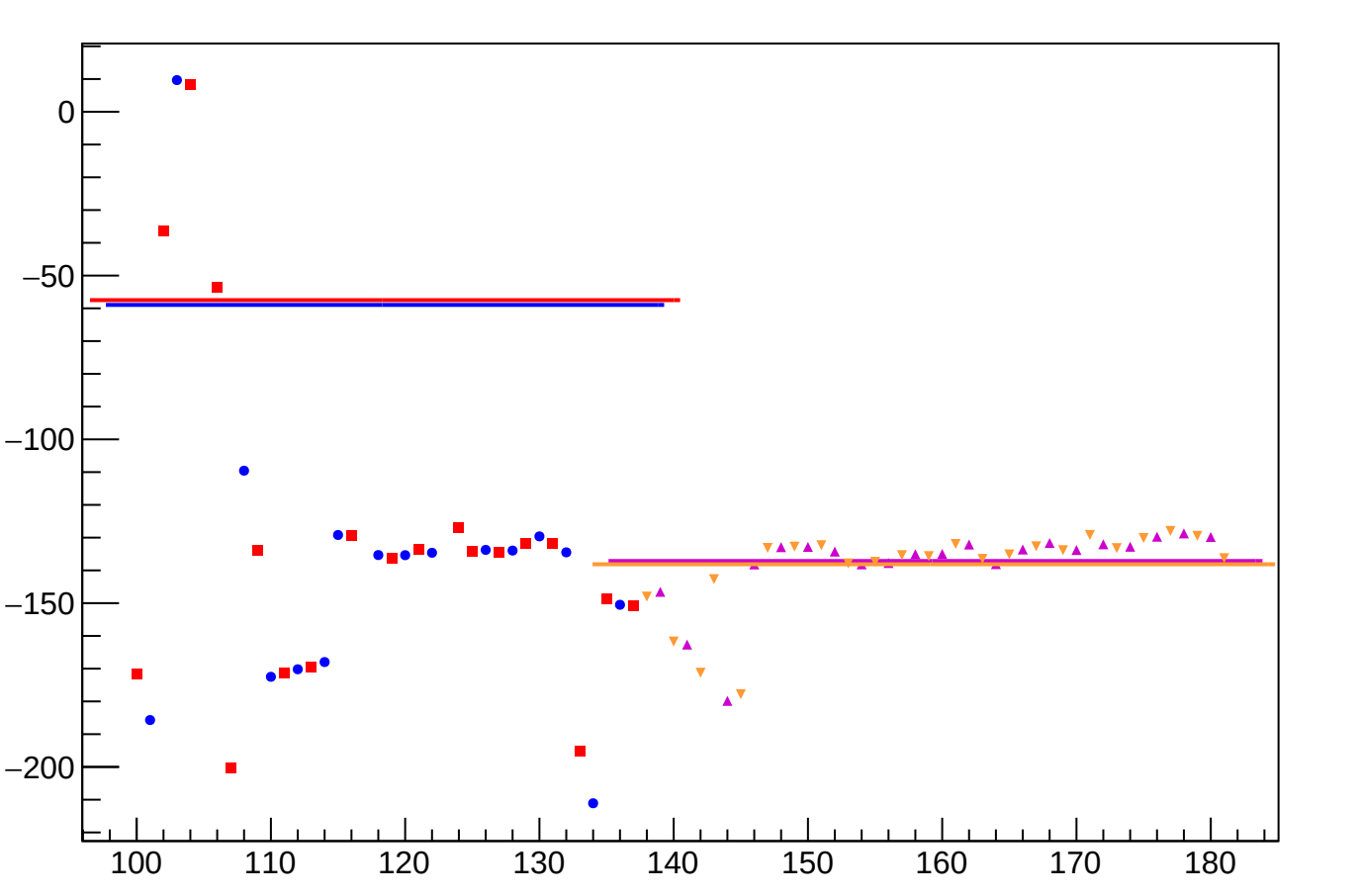
Left: 60.754+/-0.681 $\chi^2$/NDF: 1576.2/43

Right: 42.944+/-1.153 $\chi^2$/NDF: 813.9/34

In: 56.597+/-0.848 $\chi^2$/NDF:1120.7/36

Out: 55.735+/-0.812 $\chi^2$/NDF:1445.8/41

All: 56.147+/-0.586 $\chi^2$/NDF: 2567.0/78




Right In: -58.956+/-0.073 $\chi^2$/NDF: 1227079.0/15

Left Out: -138.132+/-0.044 $\chi^2$/NDF:66939.8/22

Right Out: -57.497+/-0.074 $\chi^2$/NDF: 871305.9/18

Left In: -137.134+/-0.045 $\chi^2$/NDF:53842.6/20

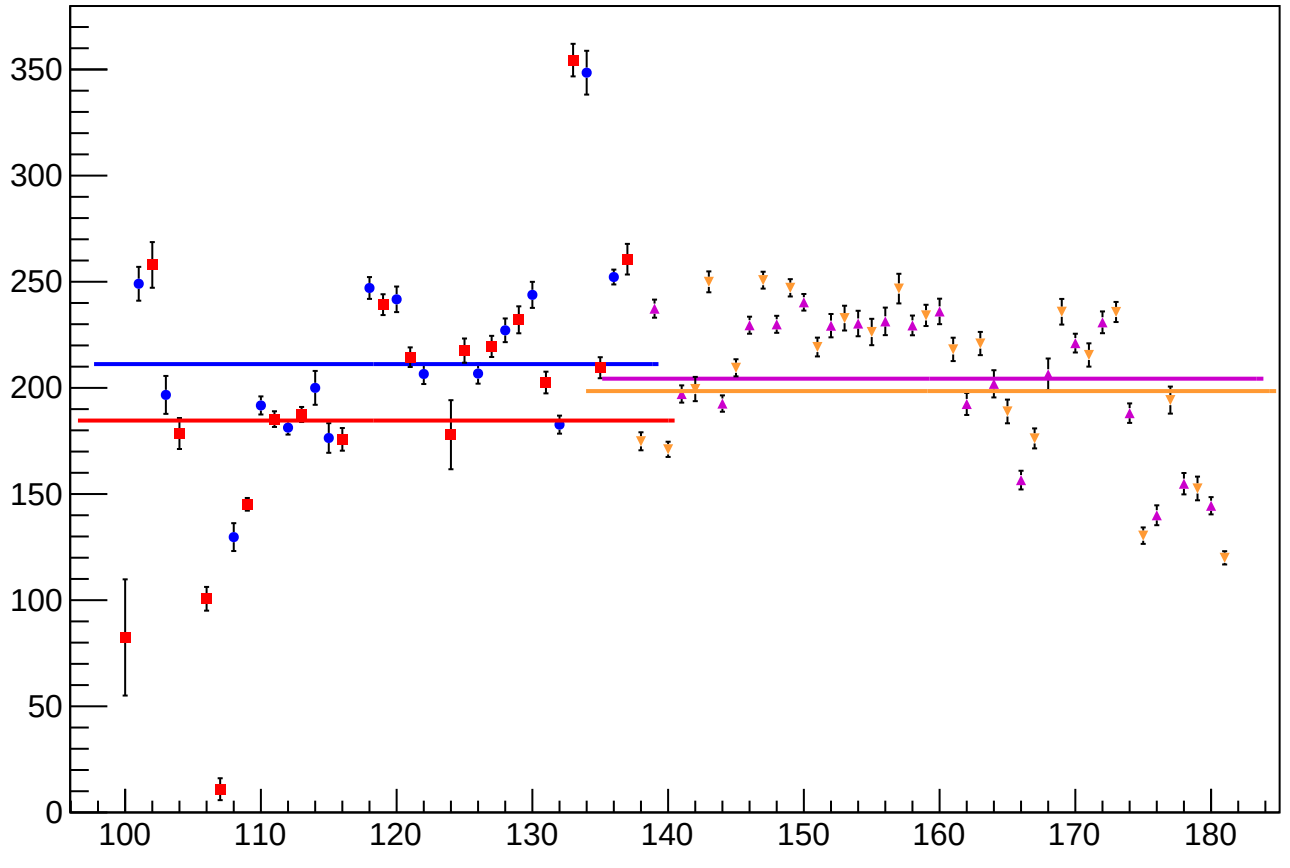
Left: -137.642+/-0.032 $\chi^2$/NDF: 121032.4/43

Right: -58.243+/-0.052 $\chi^2$/NDF: 2098582.3/34

In: -115.394+/-0.038 $\chi^2$/NDF:2117877.7/36

Out: -117.018+/-0.038 $\chi^2$/NDF:1808544.4/41

All: -116.212+/-0.027 $\chi^2$/NDF: 3927327.8/78




Right In: 211.210+/-1.296 $\chi^2$/NDF: 783.0/15

Left Out: 198.496+/-0.985 $\chi^2$/NDF:1869.3/22

Right Out: 184.614+/-1.194 $\chi^2$/NDF: 2540.4/18

Left In: 204.337+/-1.029 $\chi^2$/NDF:1029.9/20

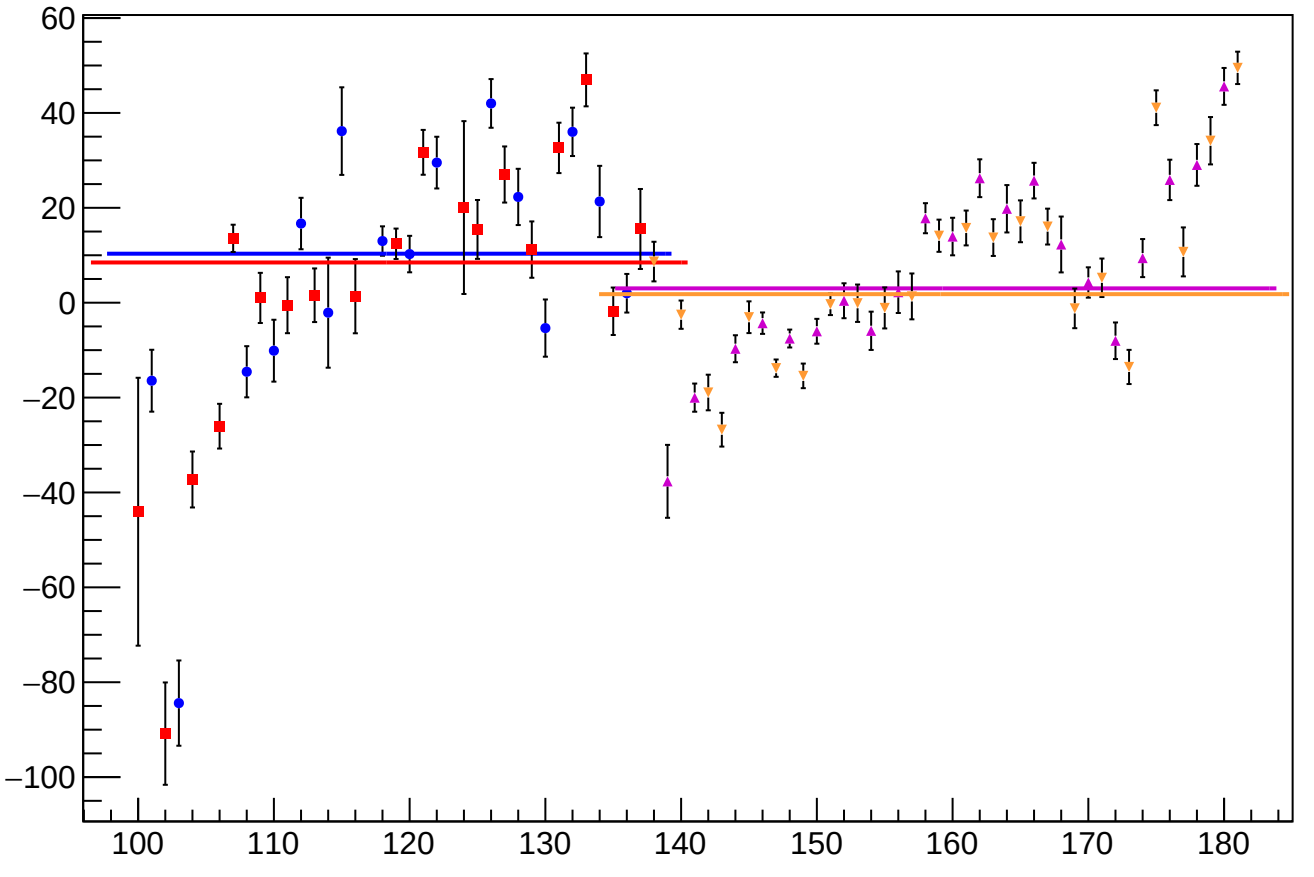
Left: 201.288+/-0.711 $\chi^2$/NDF: 2916.1/43

Right: 196.825+/-0.878 $\chi^2$/NDF: 3551.2/34

In: 206.994+/-0.806 $\chi^2$/NDF:1830.2/36

Out: 192.875+/-0.760 $\chi^2$/NDF:4490.1/41

All: 199.520+/-0.553 $\chi^2$/NDF: 6482.9/78




Right In: 10.329+/-1.333 $\chi^2$/NDF: 263.3/15

Left Out: 1.801+/-0.709 $\chi^2$/NDF:658.6/22

Right Out: 8.480+/-1.225 $\chi^2$/NDF: 322.3/18

Left In: 3.019+/-0.739 $\chi^2$/NDF:475.9/20

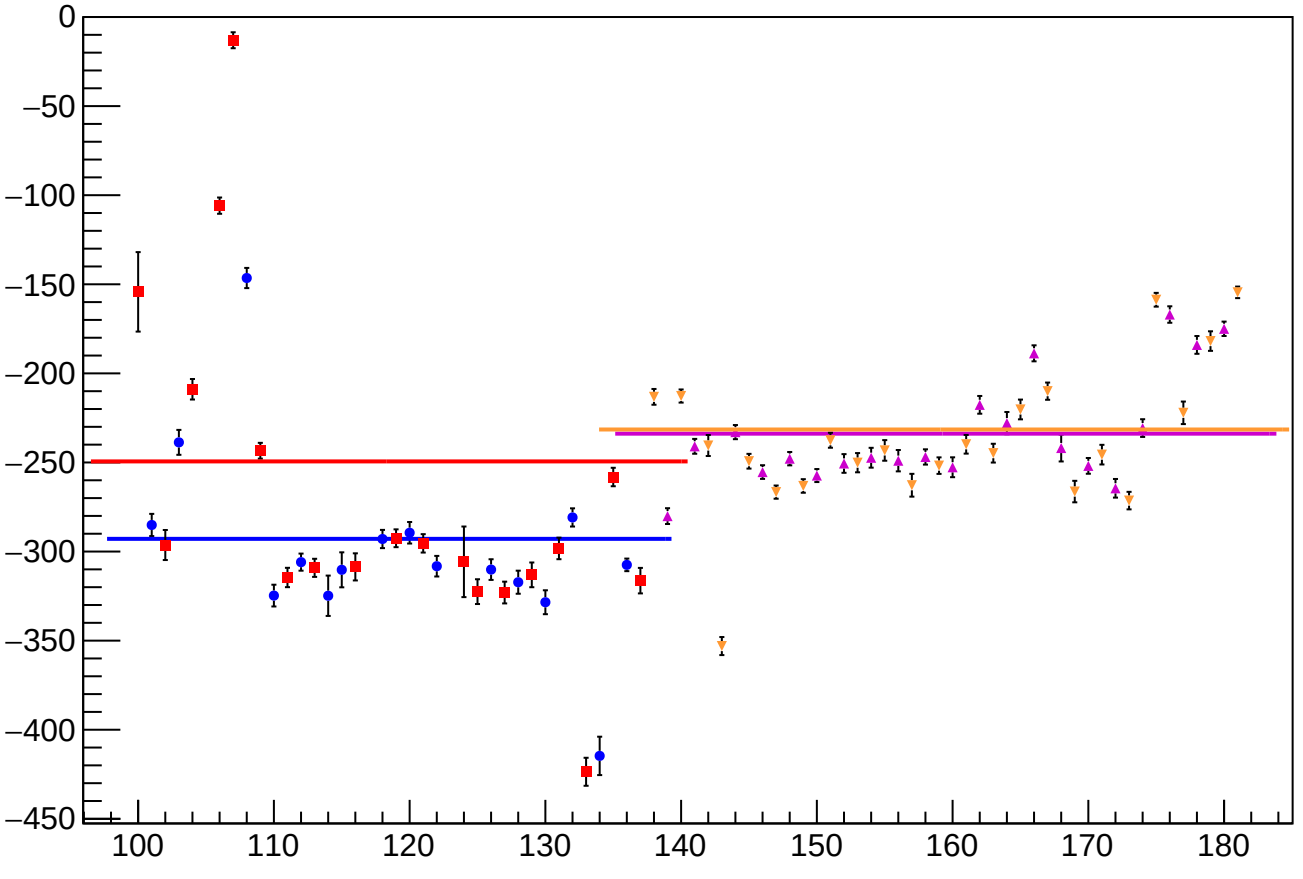
Left: 2.384+/-0.512 $\chi^2$/NDF: 1135.9/43

Right: 9.326+/-0.902 $\chi^2$/NDF: 586.7/34

In: 4.738+/-0.646 $\chi^2$/NDF:762.2/36

Out: 3.477+/-0.613 $\chi^2$/NDF:1003.3/41

All: 4.074+/-0.445 $\chi^2$/NDF: 1767.4/78




Right In: -292.872+/-1.467 $\chi^2$/NDF: 983.5/15

Left Out: -231.496+/-0.974 $\chi^2$/NDF:2001.5/22

Right Out: -249.407+/-1.369 $\chi^2$/NDF: 5368.5/18

Left In: -233.834+/-1.011 $\chi^2$/NDF:927.7/20

Left: -232.622+/-0.701 $\chi^2$/NDF: 2931.9/43

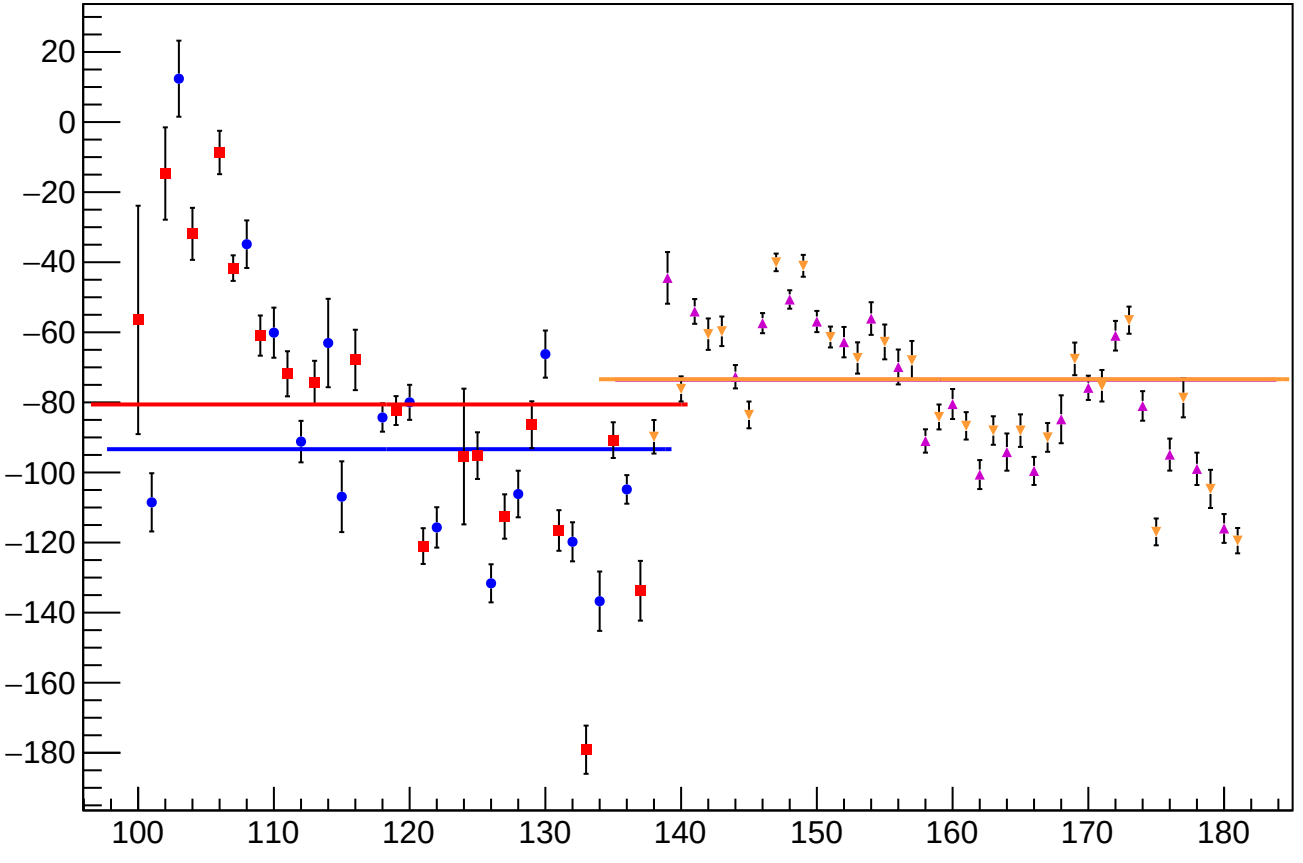
Right: -269.627+/-1.001 $\chi^2$/NDF: 6821.1/34

In: -252.834+/-0.833 $\chi^2$/NDF:3008.7/36

Out: -237.517+/-0.794 $\chi^2$/NDF:7483.6/41

All: -244.809+/-0.574 $\chi^2$/NDF: 10669.7/78

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -93.357+/-1.534 $\chi^2$/NDF: 355.3/15

Left Out: -73.392+/-0.823 $\chi^2$/NDF:753.1/22

Right Out: -80.592+/-1.424 $\chi^2$/NDF: 715.3/18

Left In: -73.522+/-0.853 $\chi^2$/NDF:508.6/20

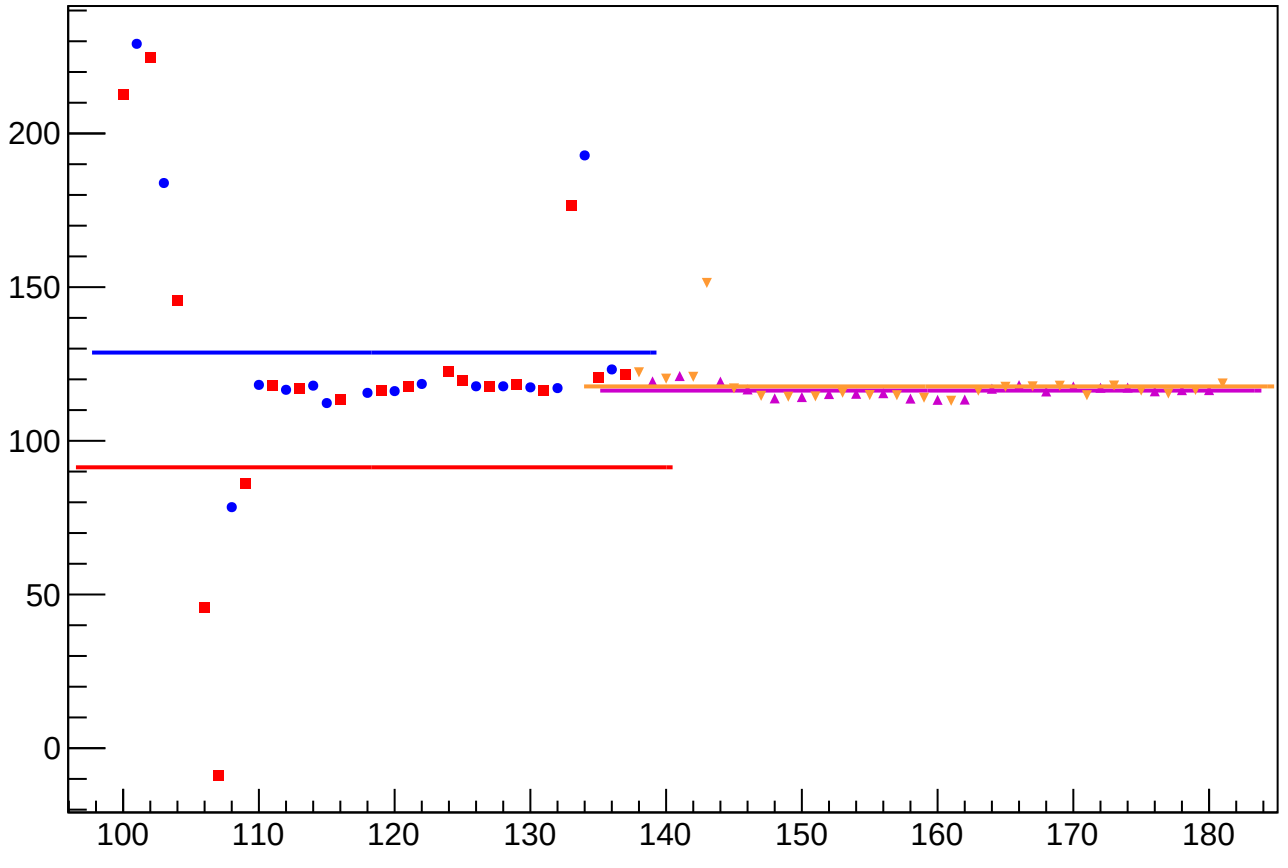
Left: -73.454+/-0.592 $\chi^2$/NDF: 1261.7/43

Right: -86.499+/-1.044 $\chi^2$/NDF: 1107.8/34

In: -78.203+/-0.745 $\chi^2$/NDF:991.6/36

Out: -75.193+/-0.712 $\chi^2$/NDF:1487.6/41

All: -76.630+/-0.515 $\chi^2$/NDF: 2487.8/78




Right In: 128.715+/-0.089 $\chi^2$/NDF: 183522.8/15

Left Out: 117.700+/-0.038 $\chi^2$/NDF:29902.1/22

Right Out: 91.385+/-0.079 $\chi^2$/NDF: 604912.4/18

Left In: 116.348+/-0.039 $\chi^2$/NDF:2991.3/20

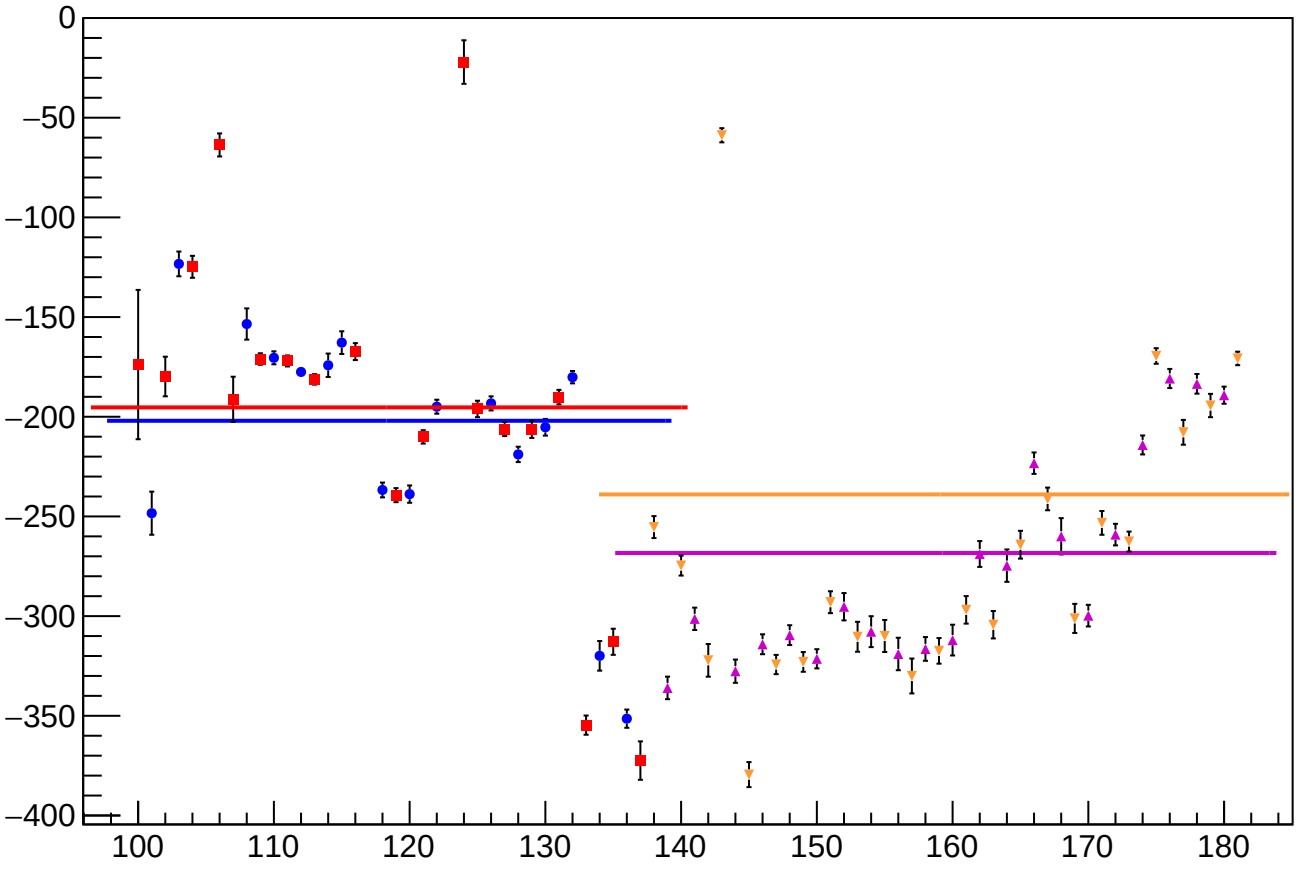
Left: 117.033+/-0.027 $\chi^2$/NDF: 33502.4/43

Right: 107.821+/-0.059 $\chi^2$/NDF: 886599.9/34

In: 118.335+/-0.036 $\chi^2$/NDF:202670.8/36

Out: 112.657+/-0.035 $\chi^2$/NDF:724371.9/41

All: 115.406+/-0.025 $\chi^2$/NDF: 940073.0/78




Right In: -202.020+/-1.024 $\chi^2$/NDF: 2040.4/15

Left Out: -238.955+/-1.141 $\chi^2$/NDF:5430.7/22

Right Out: -195.311+/-0.974 $\chi^2$/NDF: 3100.7/18

Left In: -268.342+/-1.239 $\chi^2$/NDF:1940.6/20

Left: -252.436+/-0.839 $\chi^2$/NDF: 7675.6/43

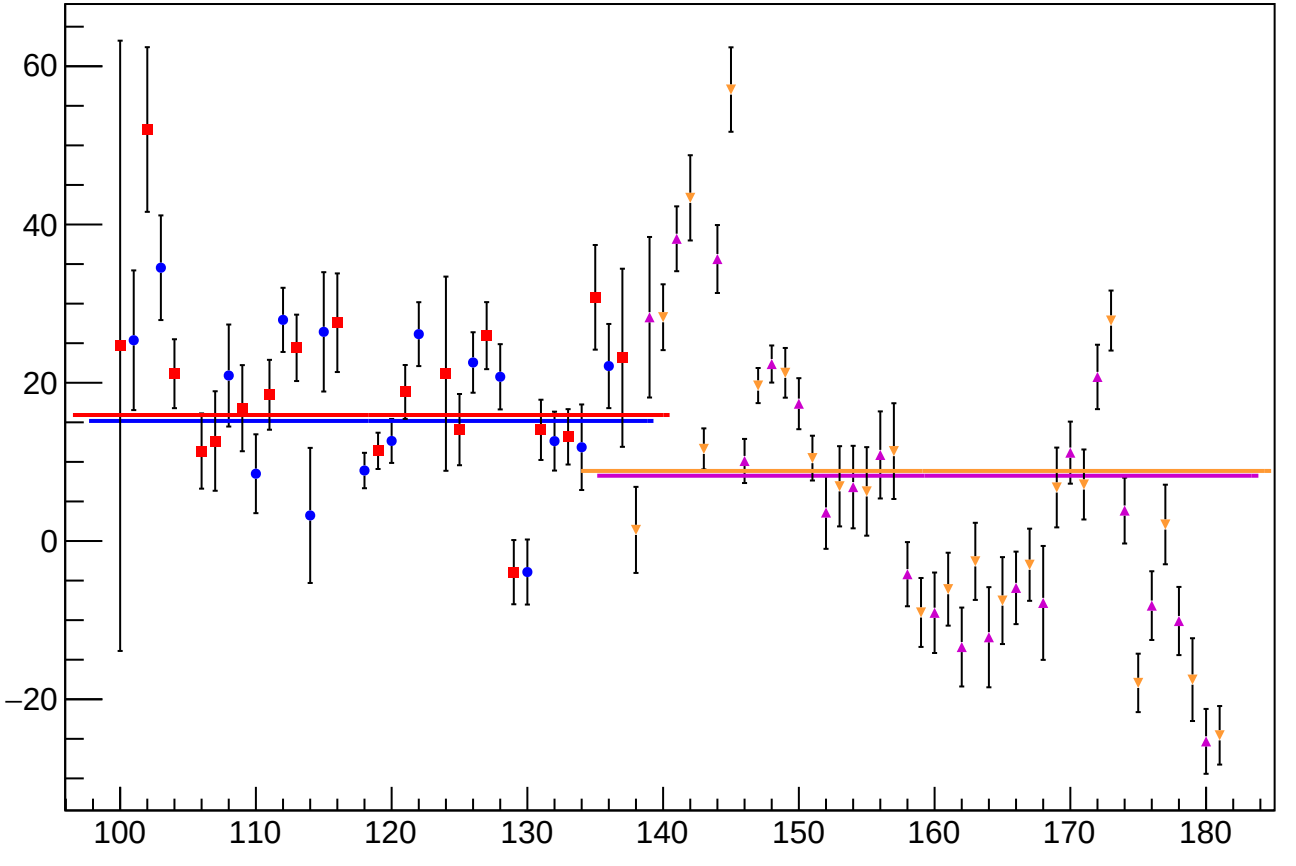
Right: -198.498+/-0.706 $\chi^2$/NDF: 5163.6/34

In: -228.929+/-0.789 $\chi^2$/NDF:5682.7/36

Out: -213.710+/-0.741 $\chi^2$/NDF:9377.7/41

All: -220.836+/-0.540 $\chi^2$/NDF: 15258.0/78

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 15.175+/-1.048 $\chi^2$/NDF: 72.3/15

Left Out: 8.856+/-0.833 $\chi^2$/NDF:422.9/22

Right Out: 15.925+/-1.037 $\chi^2$/NDF: 63.5/18

Left In: 8.250+/-0.902 $\chi^2$/NDF:319.4/20

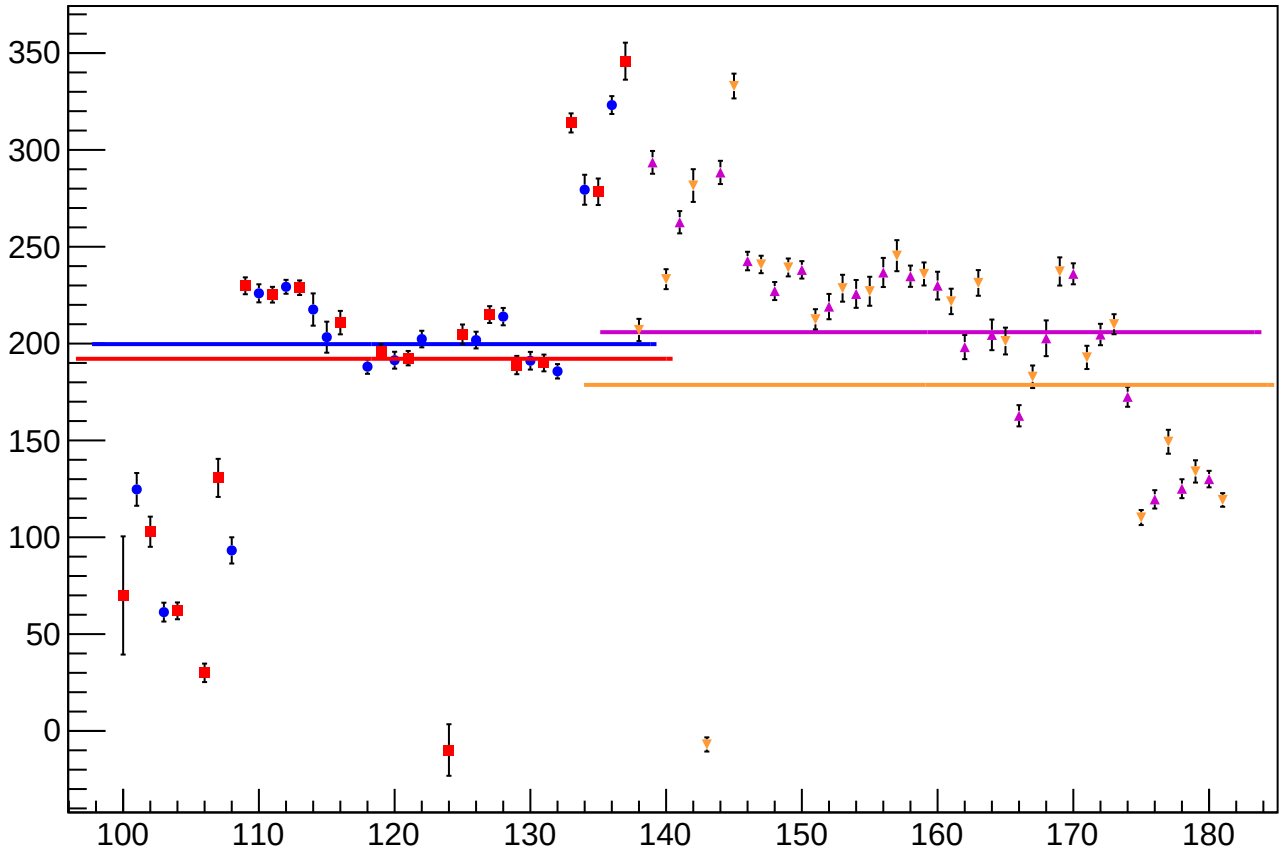
Left: 8.577+/-0.612 $\chi^2$/NDF: 742.5/43

Right: 15.554+/-0.737 $\chi^2$/NDF: 136.1/34

In: 11.198+/-0.684 $\chi^2$/NDF:416.8/36

Out: 11.628+/-0.649 $\chi^2$/NDF:514.7/41

All: 11.424+/-0.471 $\chi^2$/NDF: 931.7/78




Right In: 199.722+/-1.196 $\chi^2$/NDF: 2101.6/15

Left Out: 178.680+/-1.132 $\chi^2$/NDF:5002.9/22

Right Out: 192.156+/-1.150 $\chi^2$/NDF: 3777.1/18

Left In: 205.894+/-1.220 $\chi^2$/NDF:1765.4/20

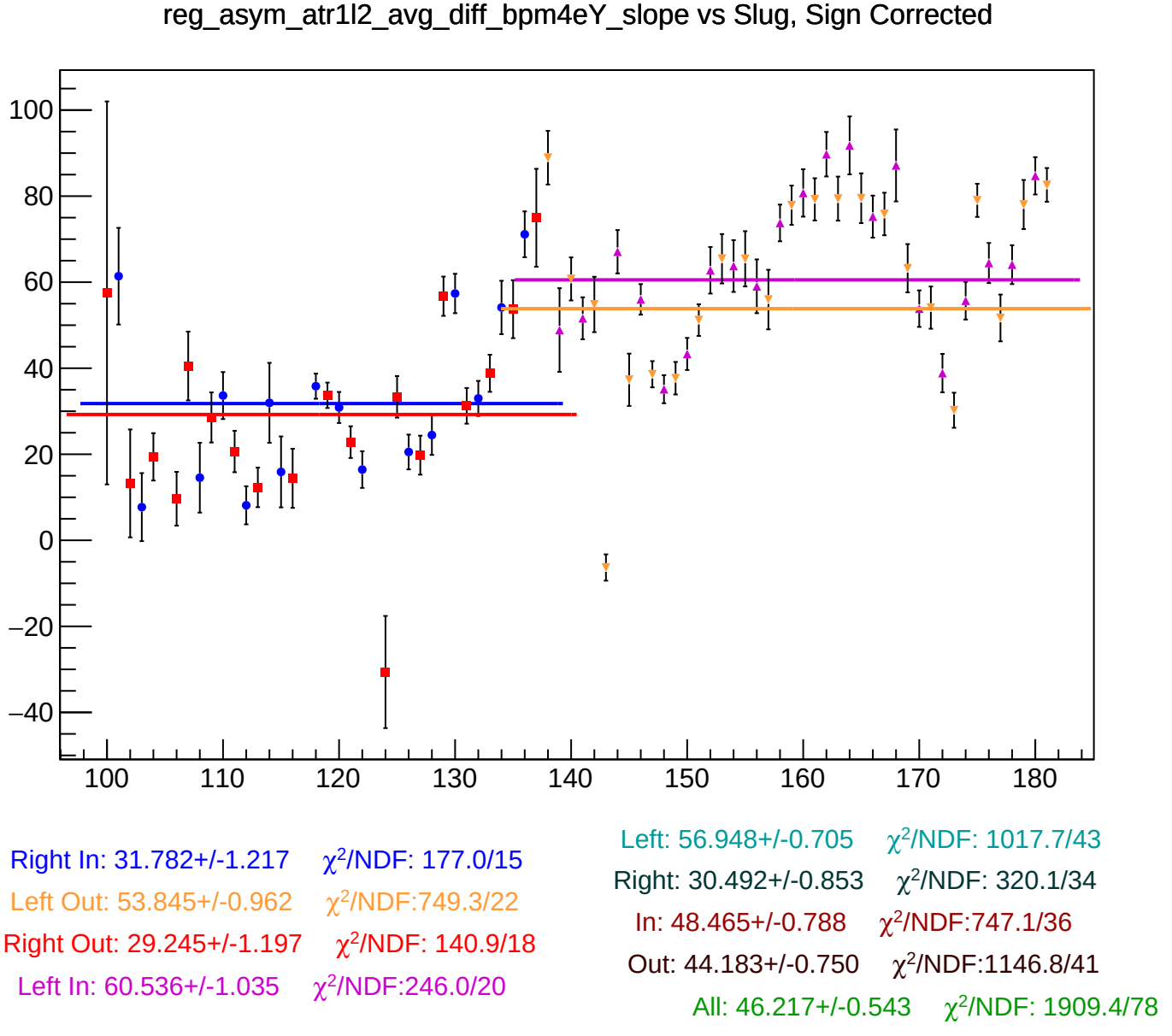
Left: 191.274+/-0.830 $\chi^2$/NDF: 7035.7/43

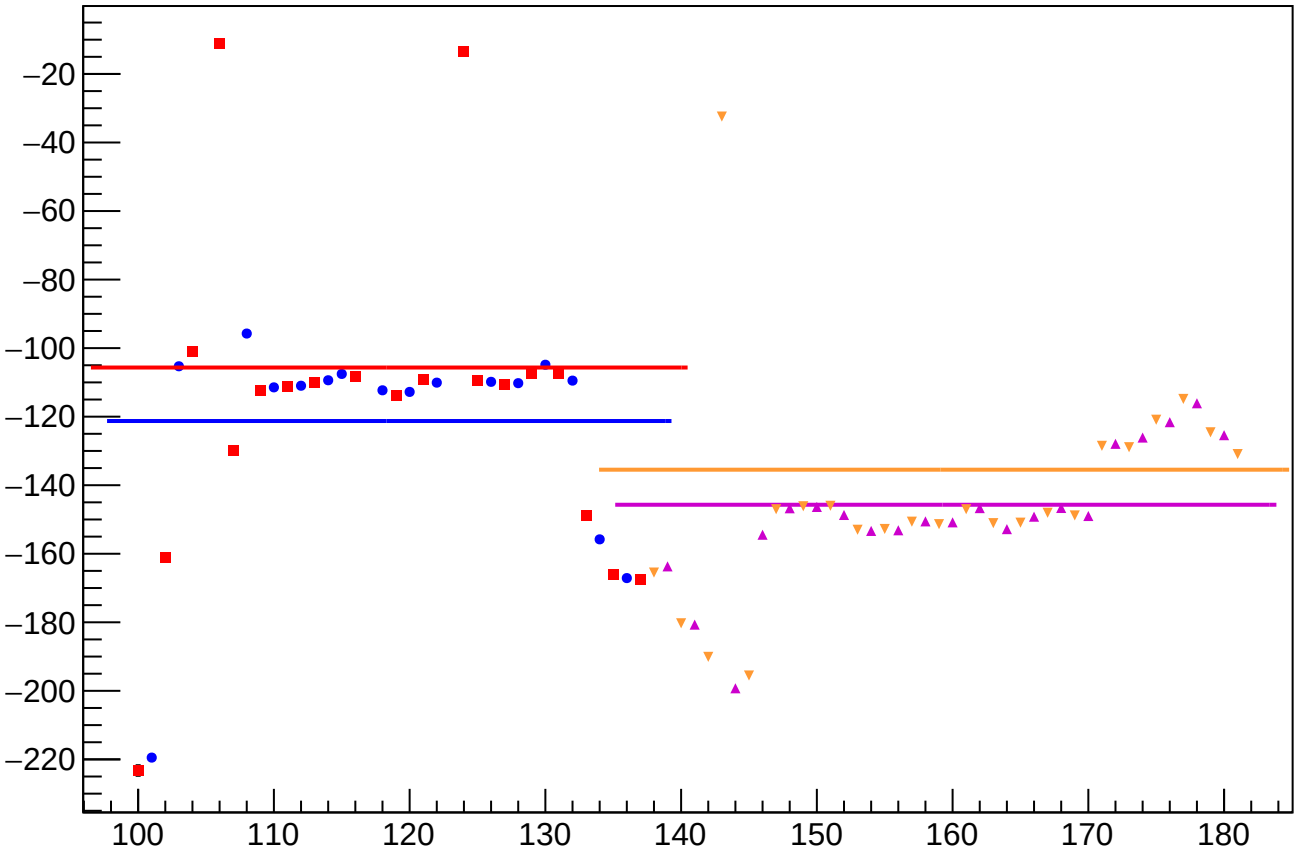
Right: 195.793+/-0.829 $\chi^2$/NDF: 5899.5/34

In: 202.746+/-0.854 $\chi^2$/NDF:3880.1/36

Out: 185.310+/-0.807 $\chi^2$/NDF:8849.7/41

All: 193.536+/-0.587 $\chi^2$/NDF: 12950.1/78


reg_asym_atr1l2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
100
80
60
40
20
0
−20
−40
100
110
120
130
140
150
160
170
180
Right In: 31.782+/-1.217 χ2/NDF: 177.0/15
Left Out: 53.845+/-0.962 χ2/NDF:749.3/22
Right Out: 29.245+/-1.197 χ2/NDF: 140.9/18
Left In: 60.536+/-1.035 χ2/NDF:246.0/20
Left: 56.948+/-0.705 χ2/NDF: 1017.7/43
Right: 30.492+/-0.853 χ2/NDF: 320.1/34
In: 48.465+/-0.788 χ2/NDF:747.1/36
Out: 44.183+/-0.750 χ2/NDF:1146.8/41
All: 46.217+/-0.543 χ2/NDF: 1909.4/78




Right In: -121.268+/-0.079 $\chi^2$/NDF: 119398.5/15

Left Out: -135.473+/-0.045 $\chi^2$/NDF:660387.5/22

Right Out: -105.660+/-0.075 $\chi^2$/NDF: 355093.7/18

Left In: -145.702+/-0.047 $\chi^2$/NDF:138750.1/20

Left: -140.354+/-0.033 $\chi^2$/NDF: 823679.3/43

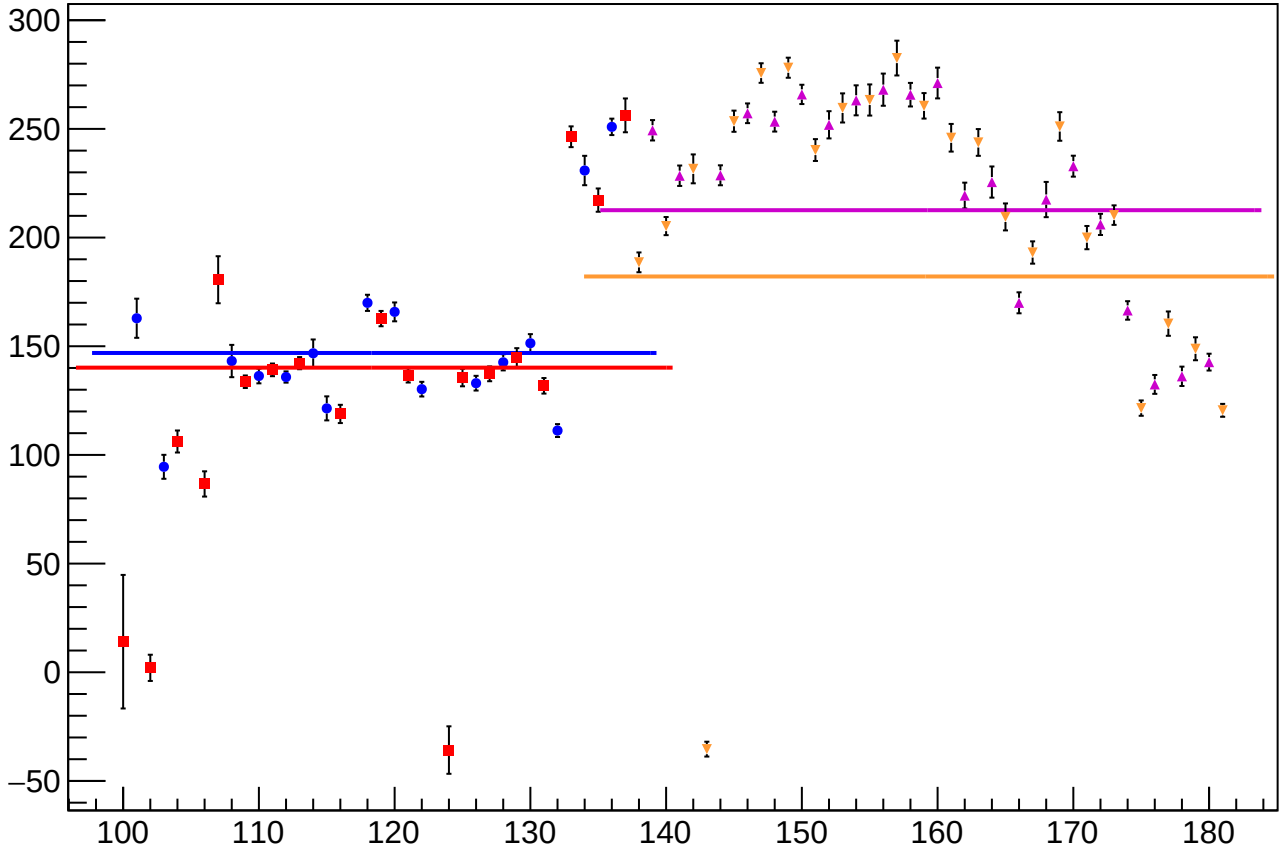
Right: -113.006+/-0.054 $\chi^2$/NDF: 495037.6/34

In: -139.299+/-0.041 $\chi^2$/NDF:328342.3/36

Out: -127.507+/-0.039 $\chi^2$/NDF:1132189.2/41

All: -133.114+/-0.028 $\chi^2$/NDF: 1504869.8/78

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 146.905+/-1.003 $\chi^2$/NDF: 1302.0/15

Left Out: 182.097+/-1.019 $\chi^2$/NDF:7112.9/22

Right Out: 140.153+/-0.960 $\chi^2$/NDF: 1950.6/18

Left In: 212.595+/-1.104 $\chi^2$/NDF:1900.0/20

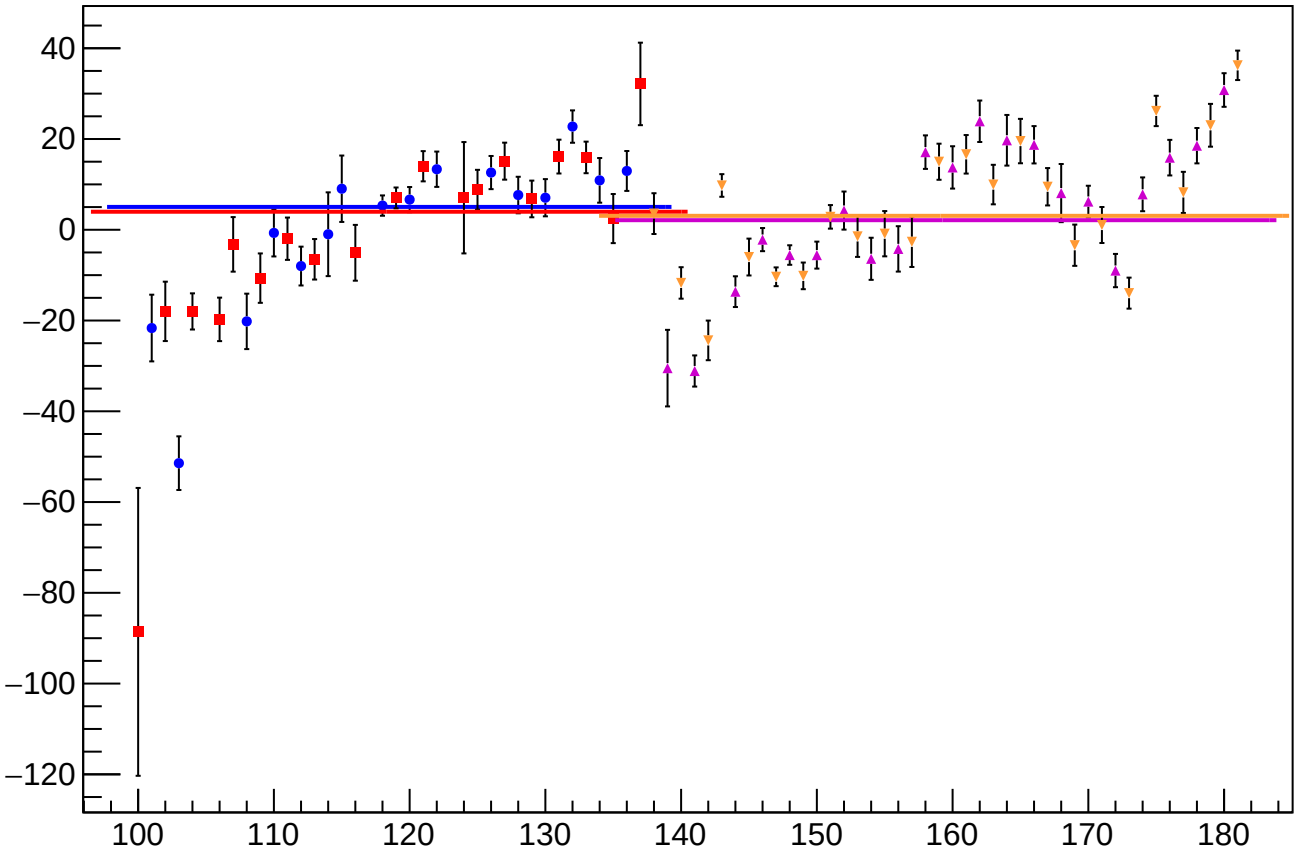
Left: 196.134+/-0.749 $\chi^2$/NDF: 9424.9/43

Right: 143.381+/-0.694 $\chi^2$/NDF: 3276.2/34

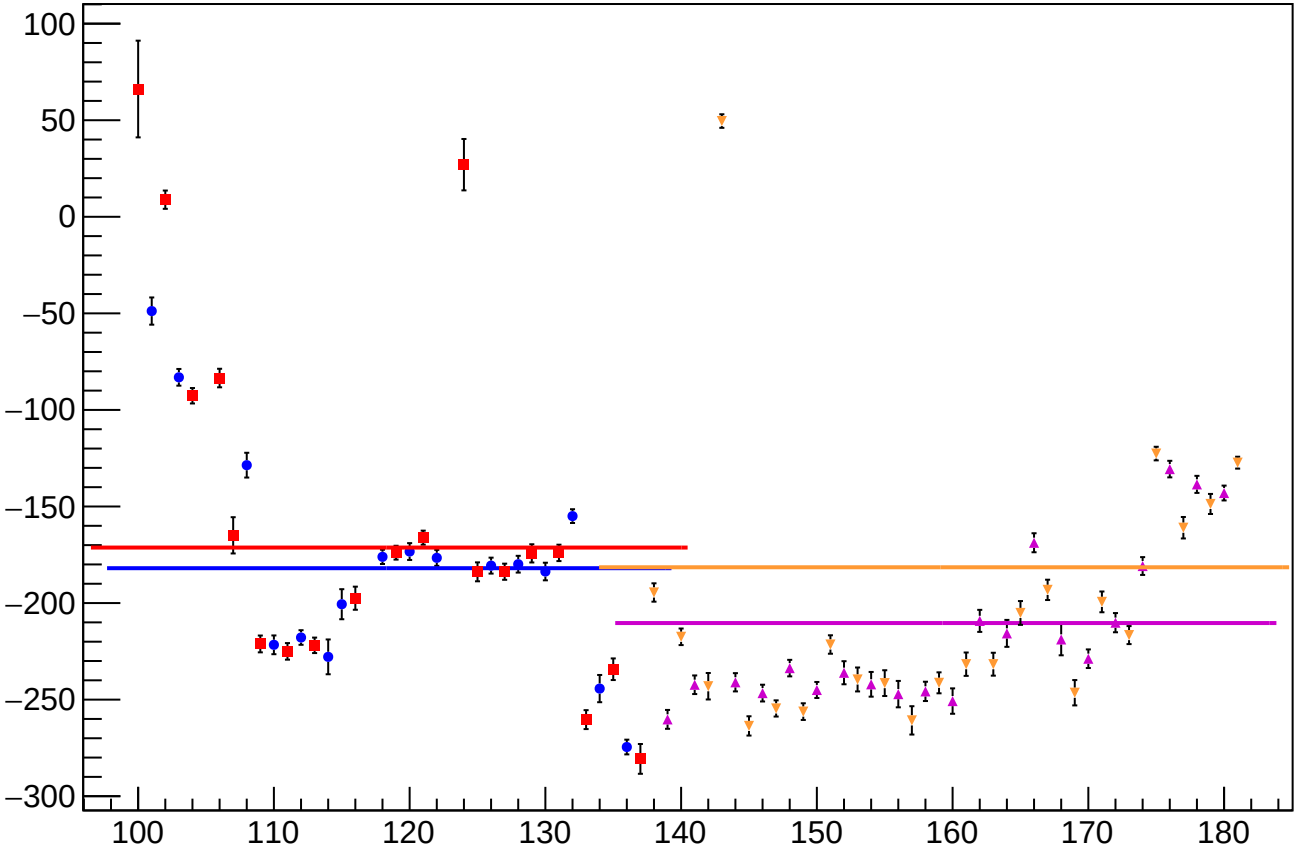
In: 176.624+/-0.742 $\chi^2$/NDF:5141.4/36

Out: 159.870+/-0.699 $\chi^2$/NDF:9960.7/41

All: 167.741+/-0.509 $\chi^2$/NDF: 15372.1/78


reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
−80
−100
−120
100
110
120
130
140
150
160
170
180
Right In: 5.037+/-1.021 χ²/NDF: 171.9/15
Left Out: 3.074+/-0.751 χ²/NDF:369.3/22
Right Out: 3.974+/-1.012 χ²/NDF: 144.9/18
Left In: 2.110+/-0.809 χ²/NDF:333.3/20
Left: 2.628+/-0.550 χ²/NDF: 703.4/43
Right: 4.501+/-0.719 χ²/NDF: 317.3/34
In: 3.240+/-0.634 χ²/NDF:510.2/36
Out: 3.394+/-0.603 χ²/NDF:514.7/41
All: 3.320+/-0.437 χ²/NDF: 1024.9/78

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -181.947+/-1.154 $\chi^2$/NDF: 1870.4/15

Left Out: -181.470+/-1.013 $\chi^2$/NDF:6794.4/22

Right Out: -171.262+/-1.111 $\chi^2$/NDF: 3628.2/18

Left In: -210.346+/-1.089 $\chi^2$/NDF:1565.0/20

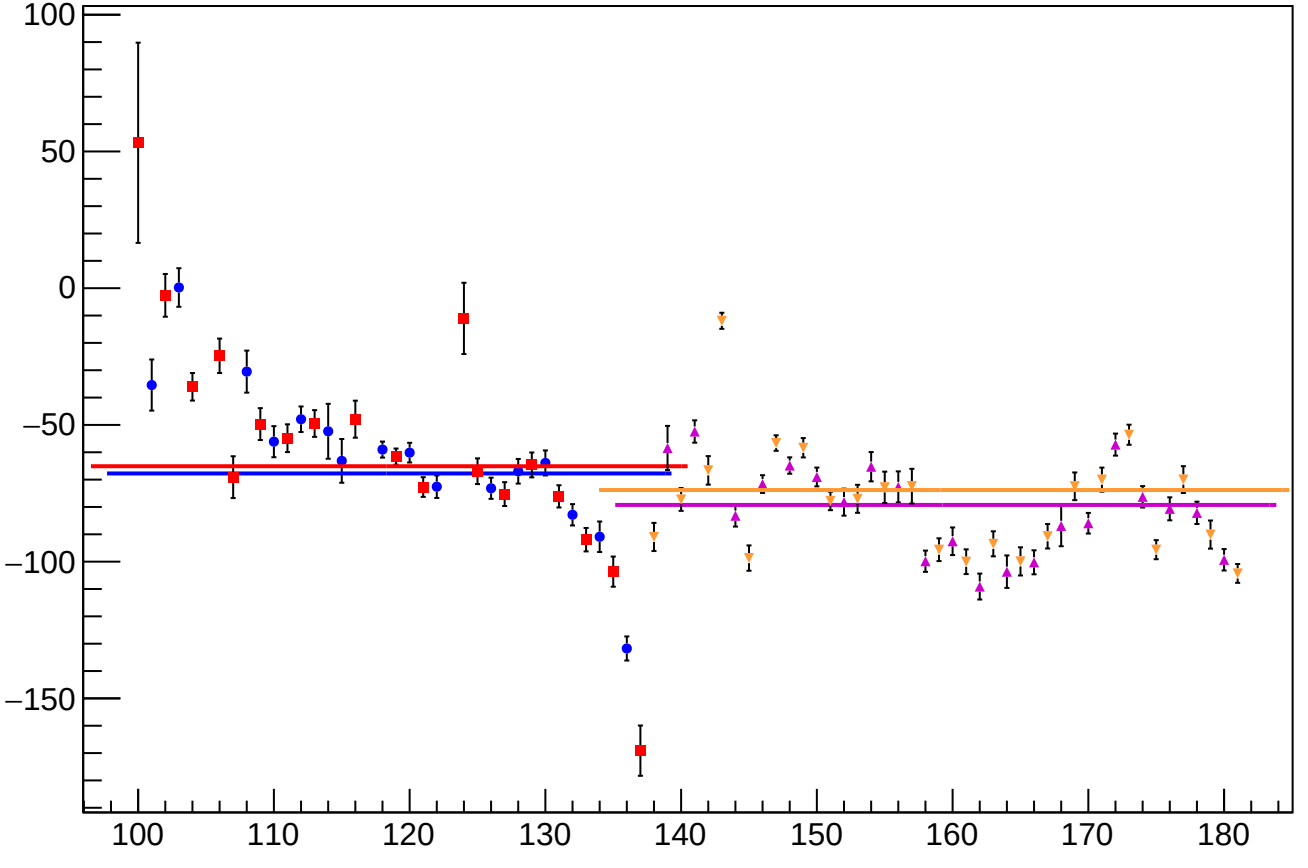
Left: -194.877+/-0.742 $\chi^2$/NDF: 8736.4/43

Right: -176.402+/-0.800 $\chi^2$/NDF: 5543.1/34

In: -196.974+/-0.792 $\chi^2$/NDF:3755.9/36

Out: -176.834+/-0.749 $\chi^2$/NDF:10468.7/41

All: -186.341+/-0.544 $\chi^2$/NDF: 14566.1/78




Right In: -67.745+/-1.181 $\chi^2$/NDF: 414.0/15

Left Out: -73.810+/-0.866 $\chi^2$/NDF:822.4/22

Right Out: -65.105+/-1.167 $\chi^2$/NDF: 429.0/18

Left In: -79.258+/-0.927 $\chi^2$/NDF:272.6/20

Left: -76.349+/-0.633 $\chi^2$/NDF: 1113.5/43

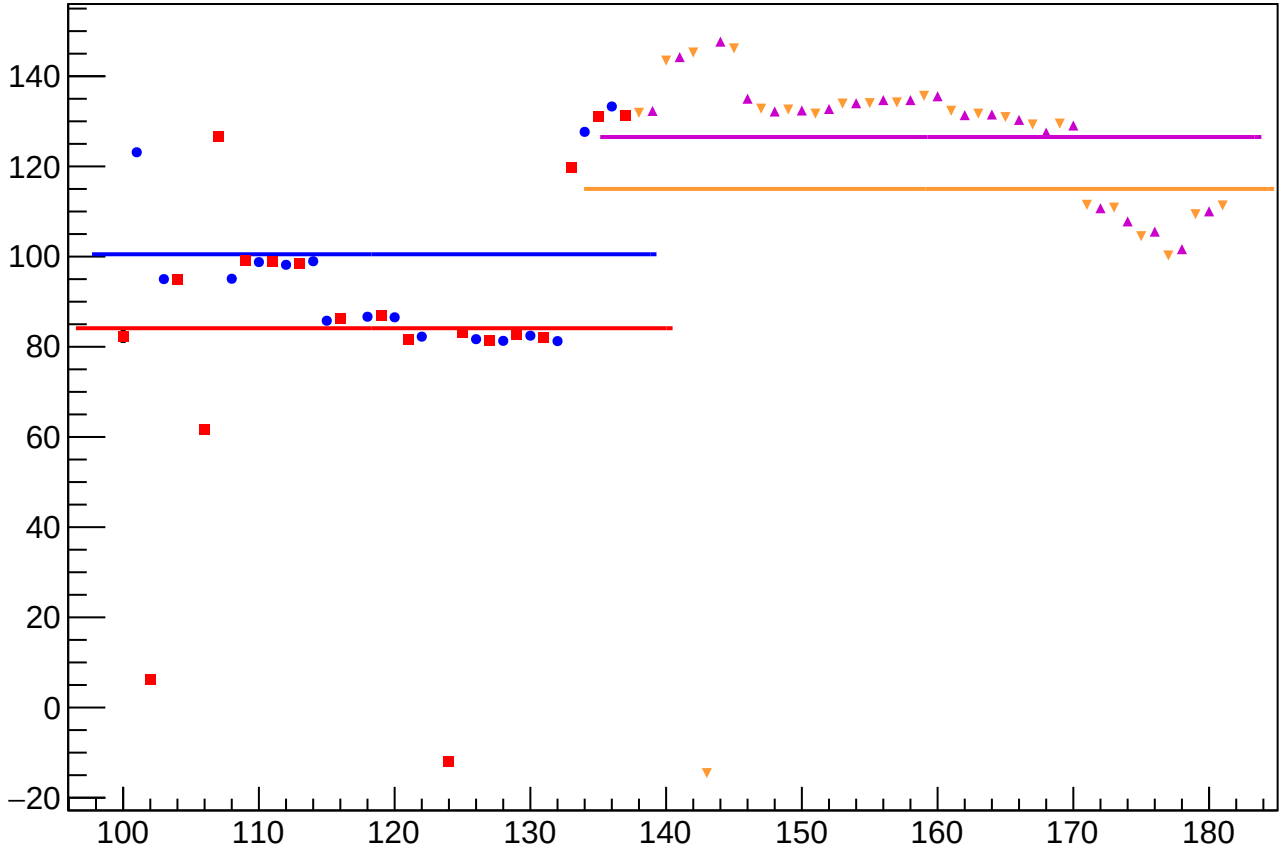
Right: -66.409+/-0.830 $\chi^2$/NDF: 845.6/34

In: -74.869+/-0.729 $\chi^2$/NDF:745.4/36

Out: -70.717+/-0.695 $\chi^2$/NDF:1287.4/41

All: -72.694+/-0.503 $\chi^2$/NDF: 2049.8/78

reg_asym_atr1l2_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 100.517+/-0.074 $\chi^2$/NDF: 67464.8/15

Left Out: 115.010+/-0.040 $\chi^2$/NDF:952340.2/22

Right Out: 84.116+/-0.069 $\chi^2$/NDF: 263788.9/18

Left In: 126.519+/-0.042 $\chi^2$/NDF:91751.8/20

Left: 120.522+/-0.029 $\chi^2$/NDF: 1082930.3/43

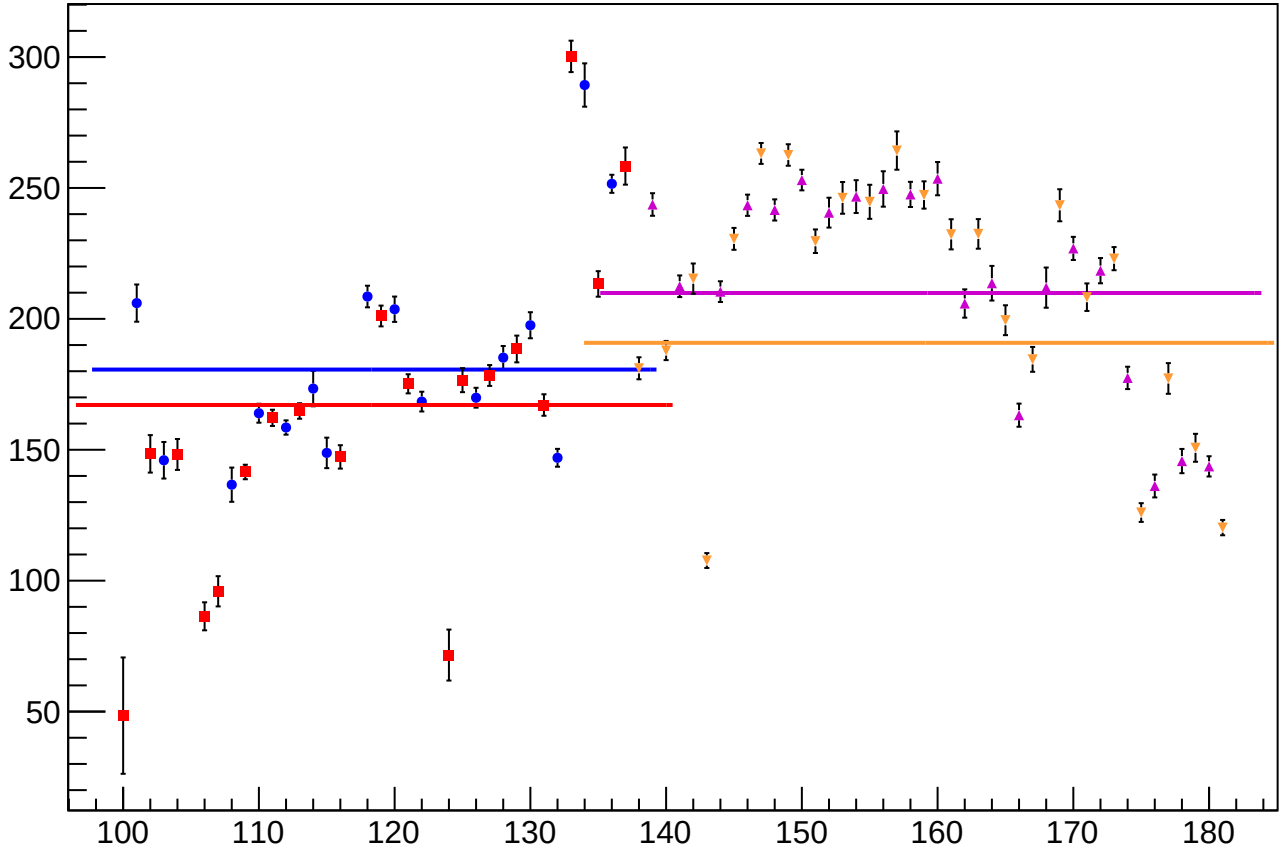
Right: 91.772+/-0.051 $\chi^2$/NDF: 357470.2/34

In: 120.143+/-0.037 $\chi^2$/NDF:252499.7/36

Out: 107.154+/-0.035 $\chi^2$/NDF:1364729.9/41

All: 113.335+/-0.025 $\chi^2$/NDF: 1683154.4/78

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 180.634+/-1.090 $\chi^2$/NDF: 993.4/15

Left Out: 190.845+/-0.941 $\chi^2$/NDF:3267.9/22

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 209.882+/-1.027 $\chi^2$/NDF:1476.4/20

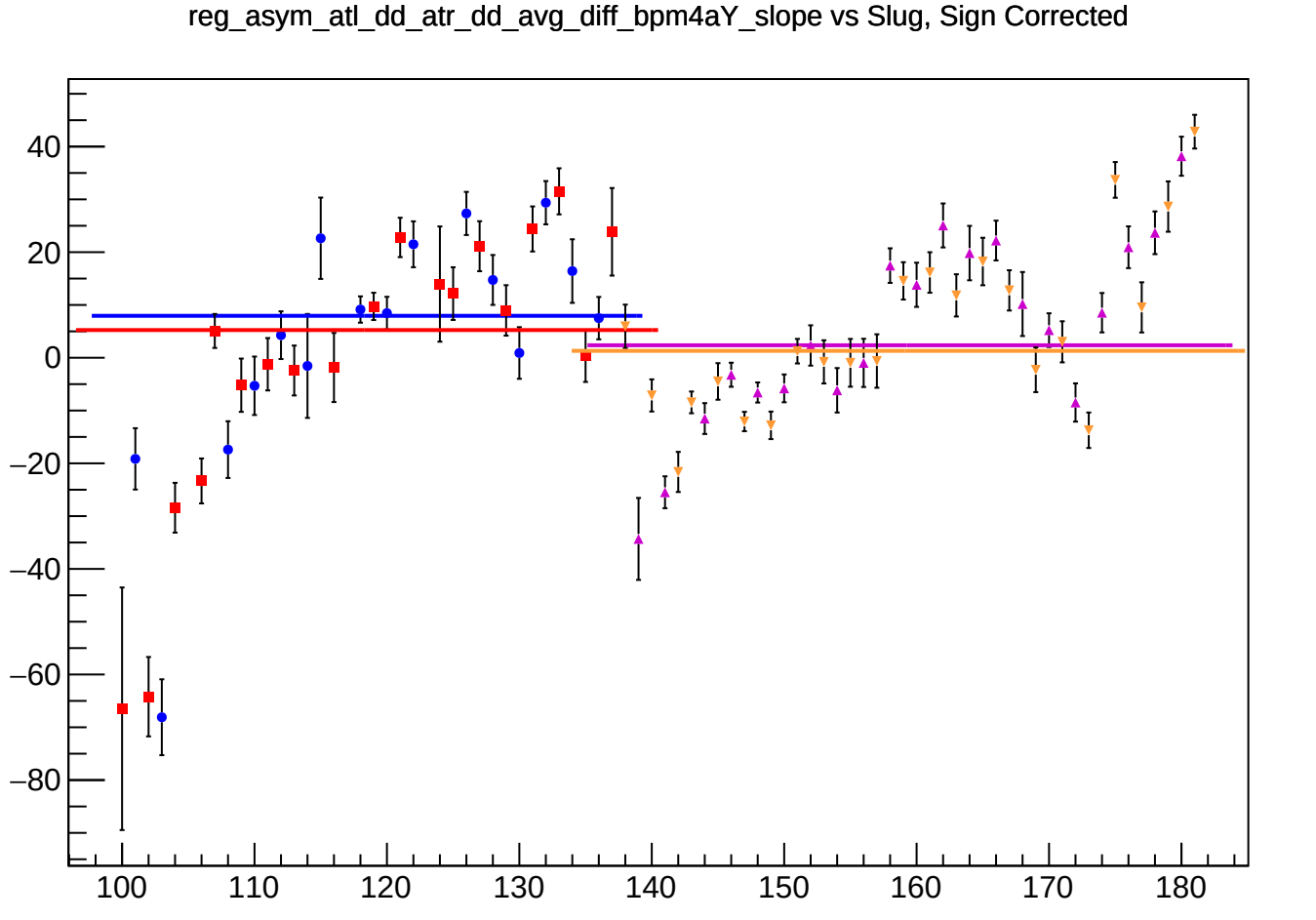
Left: 199.535+/-0.694 $\chi^2$/NDF: 4931.1/43

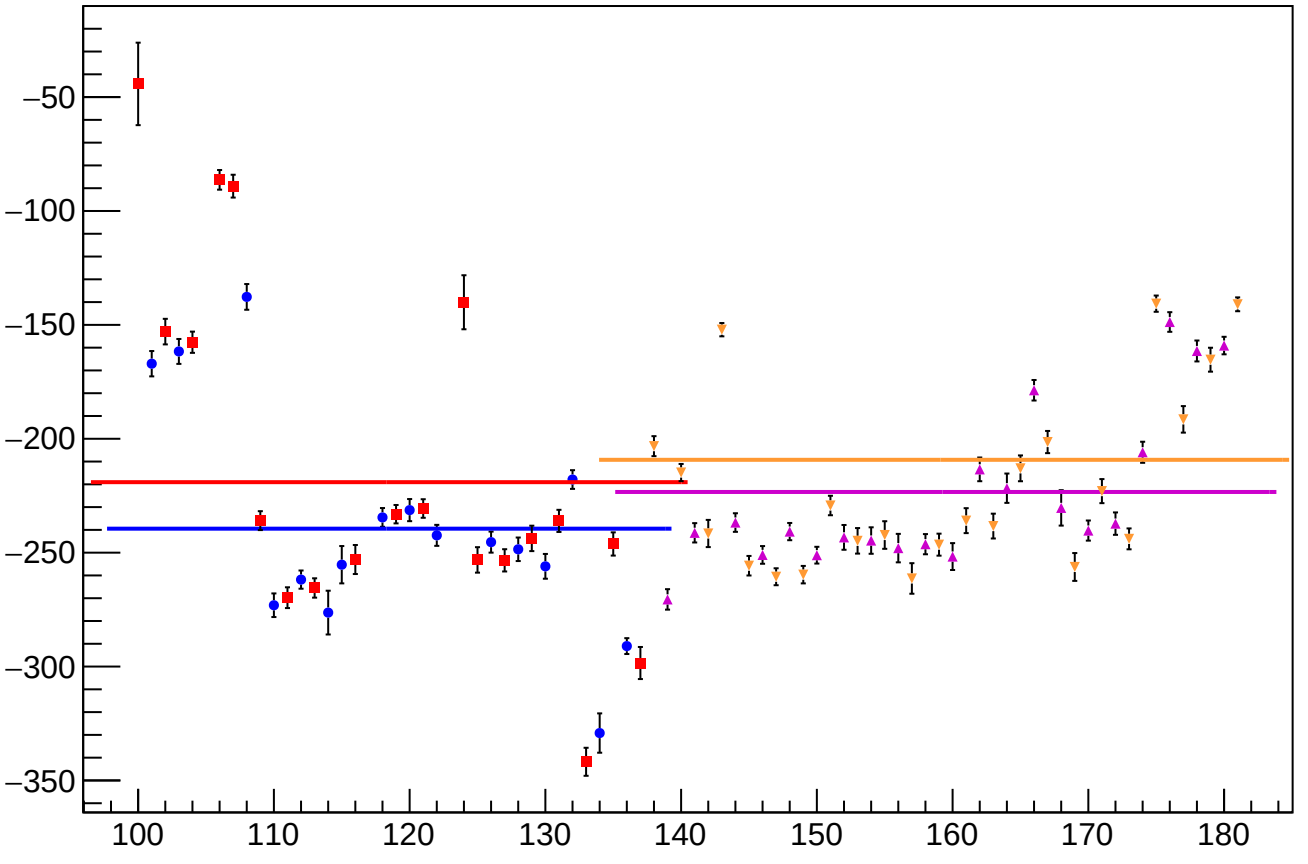
Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 196.126+/-0.747 $\chi^2$/NDF:2851.4/36

Out: 179.937+/-0.692 $\chi^2$/NDF:5044.9/41

All: 187.410+/-0.508 $\chi^2$/NDF: 8149.1/78


reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
−80
100
110
120
130
140
150
160
170
180
Right In: 7.942+/-1.113 χ²/NDF: 232.9/15
Left Out: 1.308+/-0.683 χ²/NDF:530.4/22
Right Out: 5.244+/-1.062 χ²/NDF: 302.9/18
Left In: 2.362+/-0.742 χ²/NDF:427.3/20
Left: 1.791+/-0.502 χ²/NDF: 958.8/43
Right: 6.530+/-0.768 χ²/NDF: 538.9/34
In: 4.079+/-0.618 χ²/NDF:677.6/36
Out: 2.459+/-0.574 χ²/NDF:843.0/41
All: 3.210+/-0.421 χ²/NDF: 1524.4/78




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -209.237+/-0.935 $\chi^2$/NDF:2240.8/22

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -223.356+/-1.011 $\chi^2$/NDF:1260.3/20

Left: -215.747+/-0.686 $\chi^2$/NDF: 3606.3/43

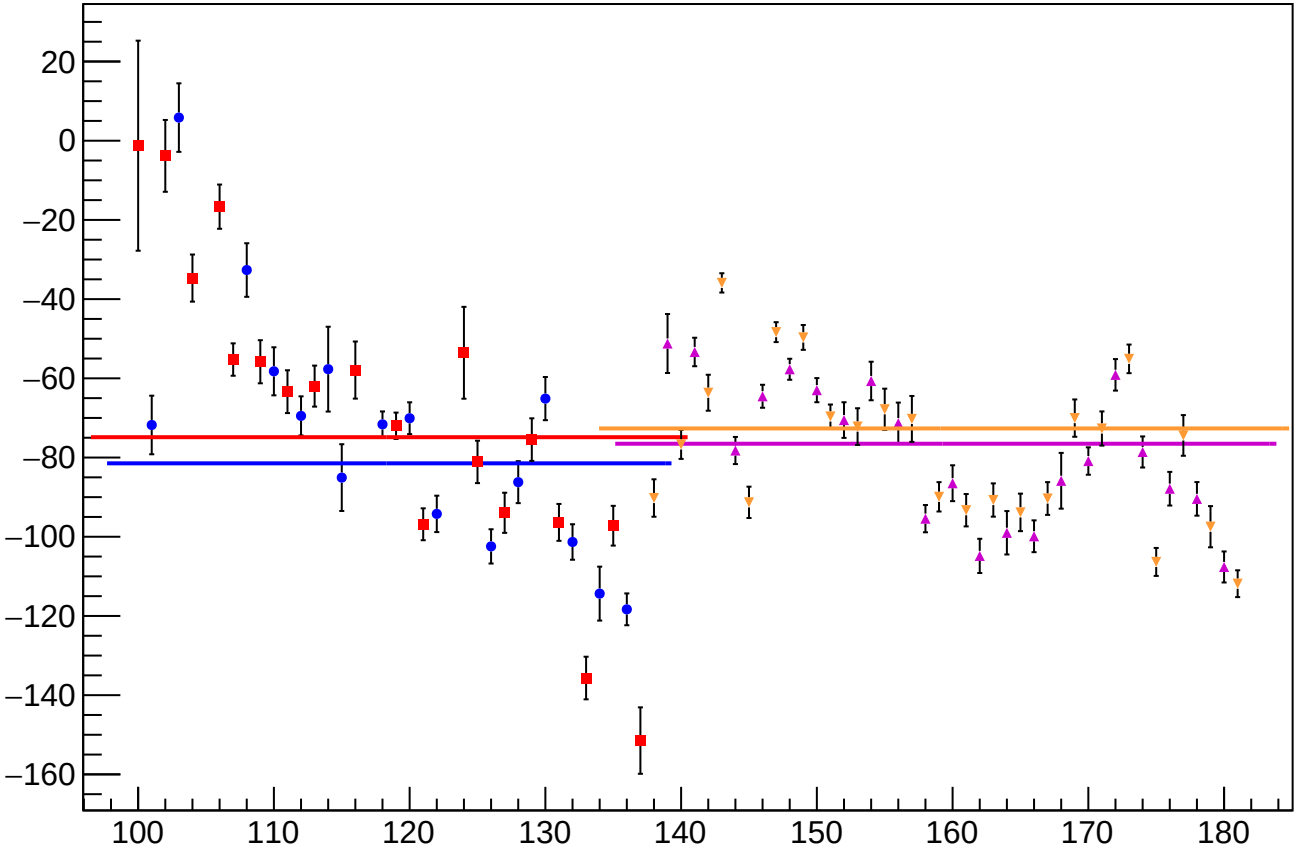
Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -229.754+/-0.785 $\chi^2$/NDF:2523.5/36

Out: -213.037+/-0.732 $\chi^2$/NDF:5332.8/41

All: -220.813+/-0.535 $\chi^2$/NDF: 8098.9/78

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -81.462+/-1.287 $\chi^2$/NDF: 366.5/15

Left Out: -72.653+/-0.792 $\chi^2$/NDF:793.9/22

Right Out: -74.861+/-1.230 $\chi^2$/NDF: 576.6/18

Left In: -76.512+/-0.855 $\chi^2$/NDF:386.2/20

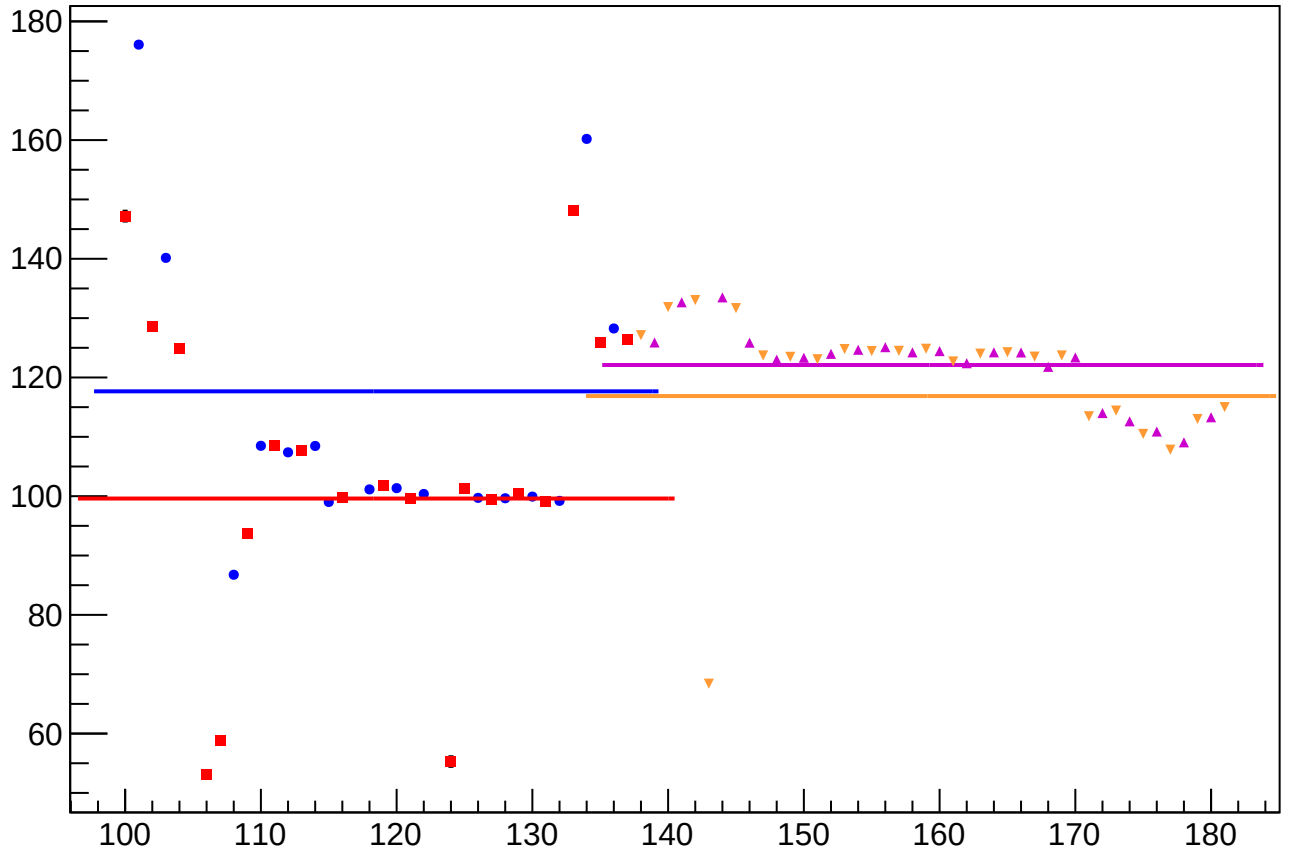
Left: -74.436+/-0.581 $\chi^2$/NDF: 1191.0/43

Right: -78.013+/-0.889 $\chi^2$/NDF: 956.9/34

In: -78.028+/-0.712 $\chi^2$/NDF:762.9/36

Out: -73.300+/-0.666 $\chi^2$/NDF:1372.8/41

All: -75.506+/-0.486 $\chi^2$/NDF: 2159.2/78




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 116.871+/-0.037 $\chi^2$/NDF:203486.8/22

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 122.103+/-0.039 $\chi^2$/NDF:25737.6/20

Left: 119.360+/-0.027 $\chi^2$/NDF: 238612.7/43

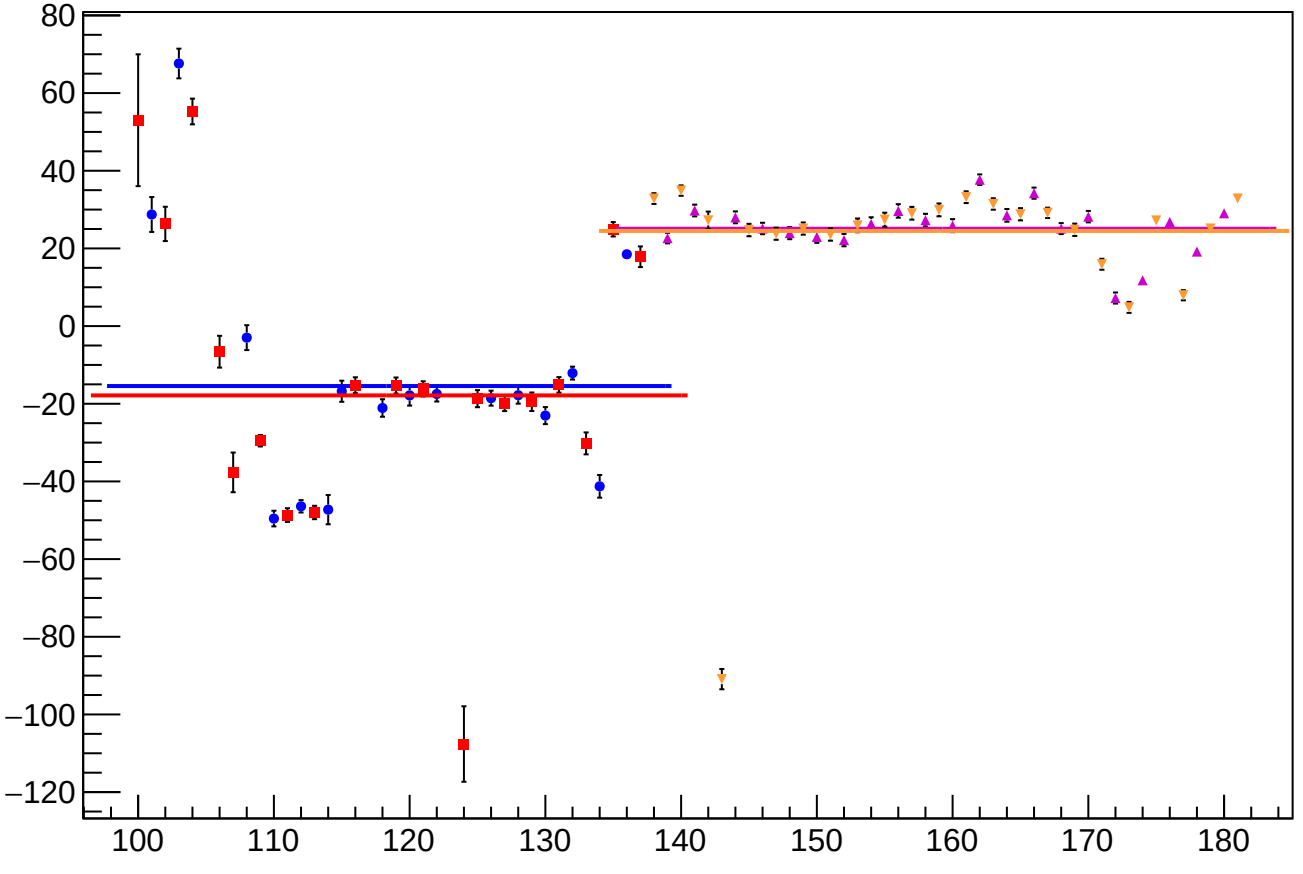
Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

In: 121.217+/-0.035 $\chi^2$/NDF:123707.8/36

Out: 113.086+/-0.033 $\chi^2$/NDF:416818.9/41

All: 116.905+/-0.024 $\chi^2$/NDF: 569189.2/78

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -15.438+/-0.539 $\chi^2$/NDF: 2124.2/15

Left Out: 24.502+/-0.297 $\chi^2$/NDF:2634.5/22

Right Out: -17.848+/-0.530 $\chi^2$/NDF: 2125.2/18

Left In: 25.063+/-0.306 $\chi^2$/NDF:489.2/20

Left: 24.775+/-0.213 $\chi^2$/NDF: 3125.5/43

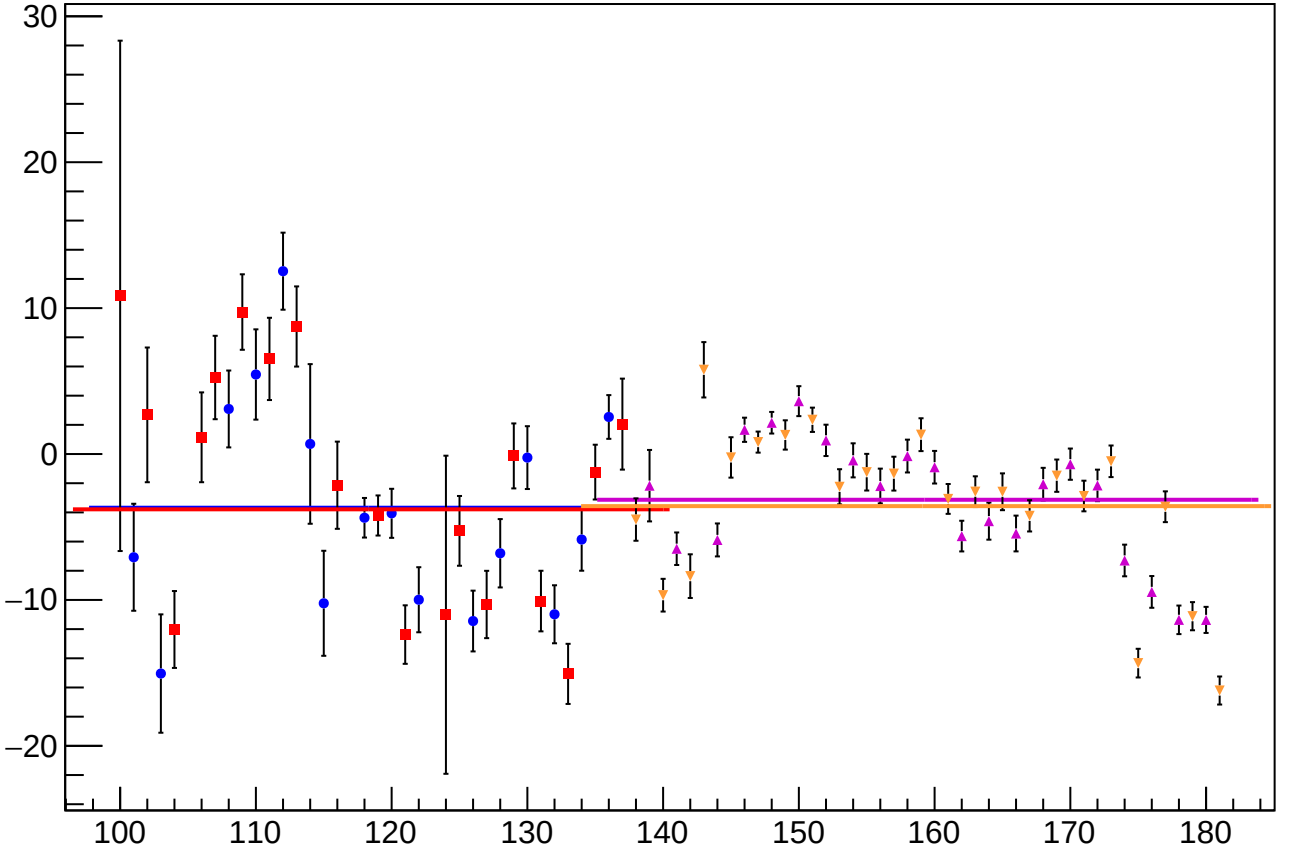
Right: -16.664+/-0.378 $\chi^2$/NDF: 4259.6/34

In: 15.179+/-0.266 $\chi^2$/NDF:6881.1/36

Out: 14.354+/-0.259 $\chi^2$/NDF:9621.4/41

All: 14.755+/-0.186 $\chi^2$/NDF: 16507.4/78

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -3.679+/-0.552 $\chi^2$/NDF: 124.0/15

Left Out: -3.571+/-0.225 $\chi^2$/NDF:576.8/22

Right Out: -3.790+/-0.564 $\chi^2$/NDF: 161.2/18

Left In: -3.134+/-0.232 $\chi^2$/NDF:395.6/20

Left: -3.359+/-0.162 $\chi^2$/NDF: 974.2/43

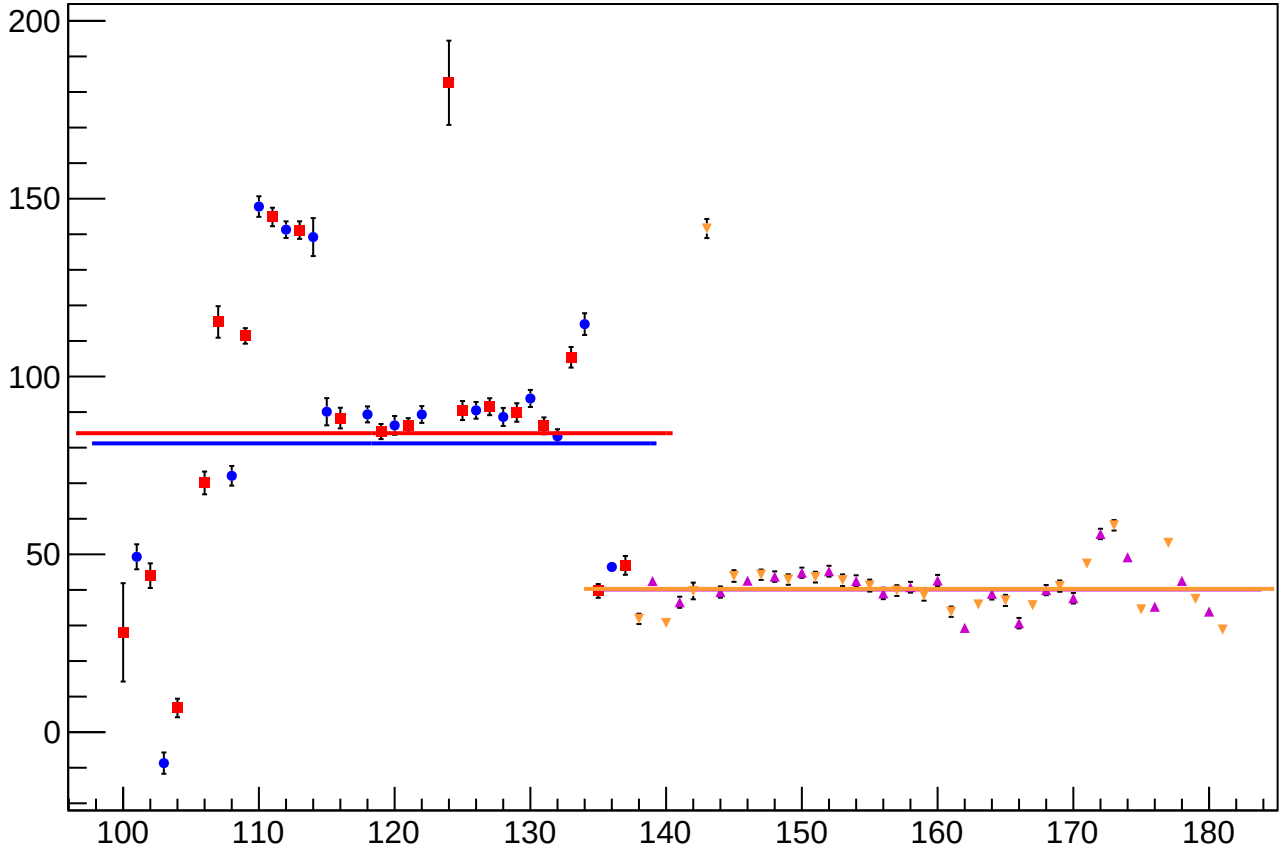
Right: -3.734+/-0.394 $\chi^2$/NDF: 285.2/34

In: -3.216+/-0.214 $\chi^2$/NDF:520.4/36

Out: -3.601+/-0.209 $\chi^2$/NDF:738.1/41

All: -3.413+/-0.149 $\chi^2$/NDF: 1260.2/78

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 81.203+/-0.607 $\chi^2$/NDF: 3230.5/15

Left Out: 40.289+/-0.294 $\chi^2$/NDF:2042.6/22

Right Out: 84.065+/-0.616 $\chi^2$/NDF: 3206.5/18

Left In: 40.124+/-0.302 $\chi^2$/NDF:387.2/20

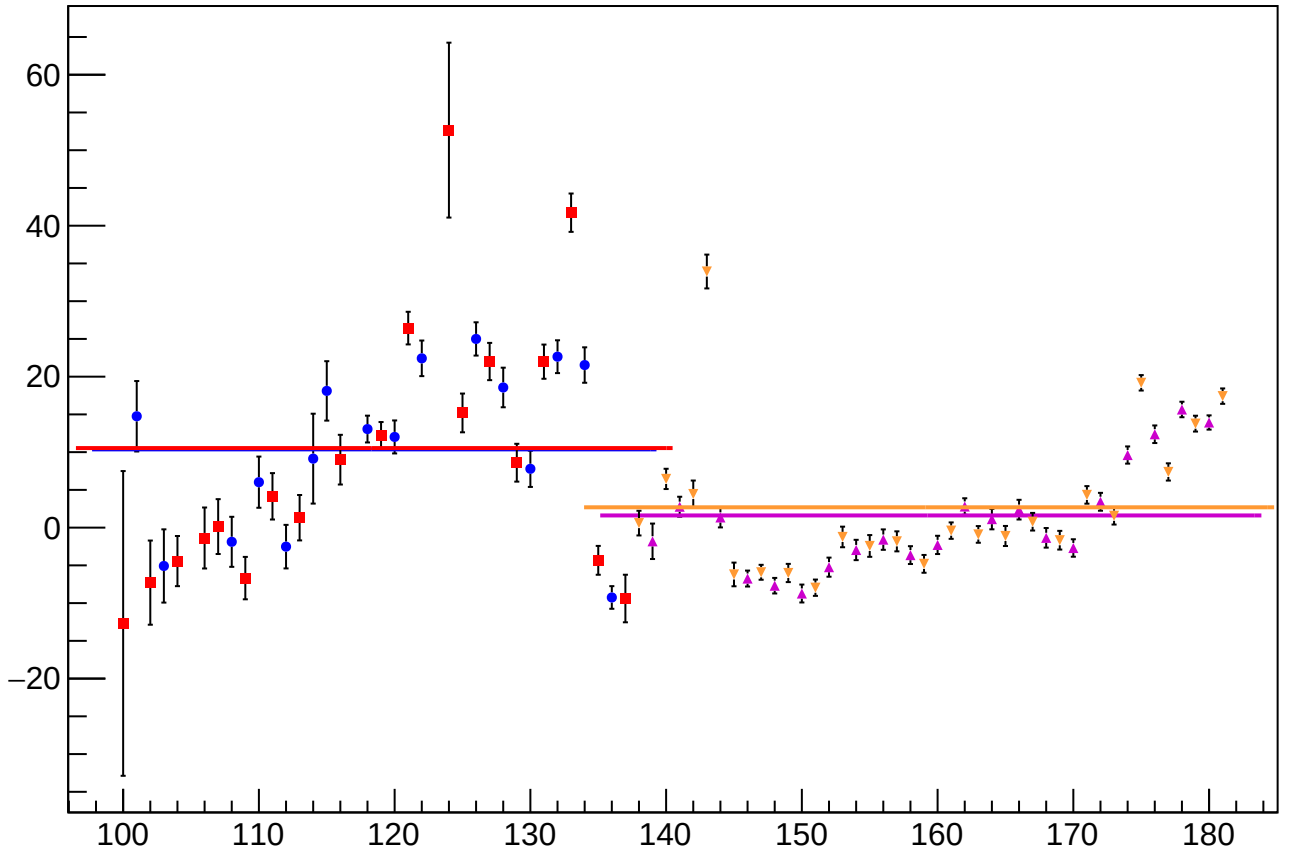
Left: 40.209+/-0.211 $\chi^2$/NDF: 2429.9/43

Right: 82.612+/-0.432 $\chi^2$/NDF: 6447.9/34

In: 48.270+/-0.270 $\chi^2$/NDF:7288.7/36

Out: 48.412+/-0.265 $\chi^2$/NDF:9358.6/41

All: 48.342+/-0.189 $\chi^2$/NDF: 16647.5/78




Right In: 10.367+/-0.627 $\chi^2$/NDF: 359.8/15

Left Out: 2.692+/-0.255 $\chi^2$/NDF:1175.6/22

Right Out: 10.539+/-0.640 $\chi^2$/NDF: 470.7/18

Left In: 1.614+/-0.262 $\chi^2$/NDF:814.6/20

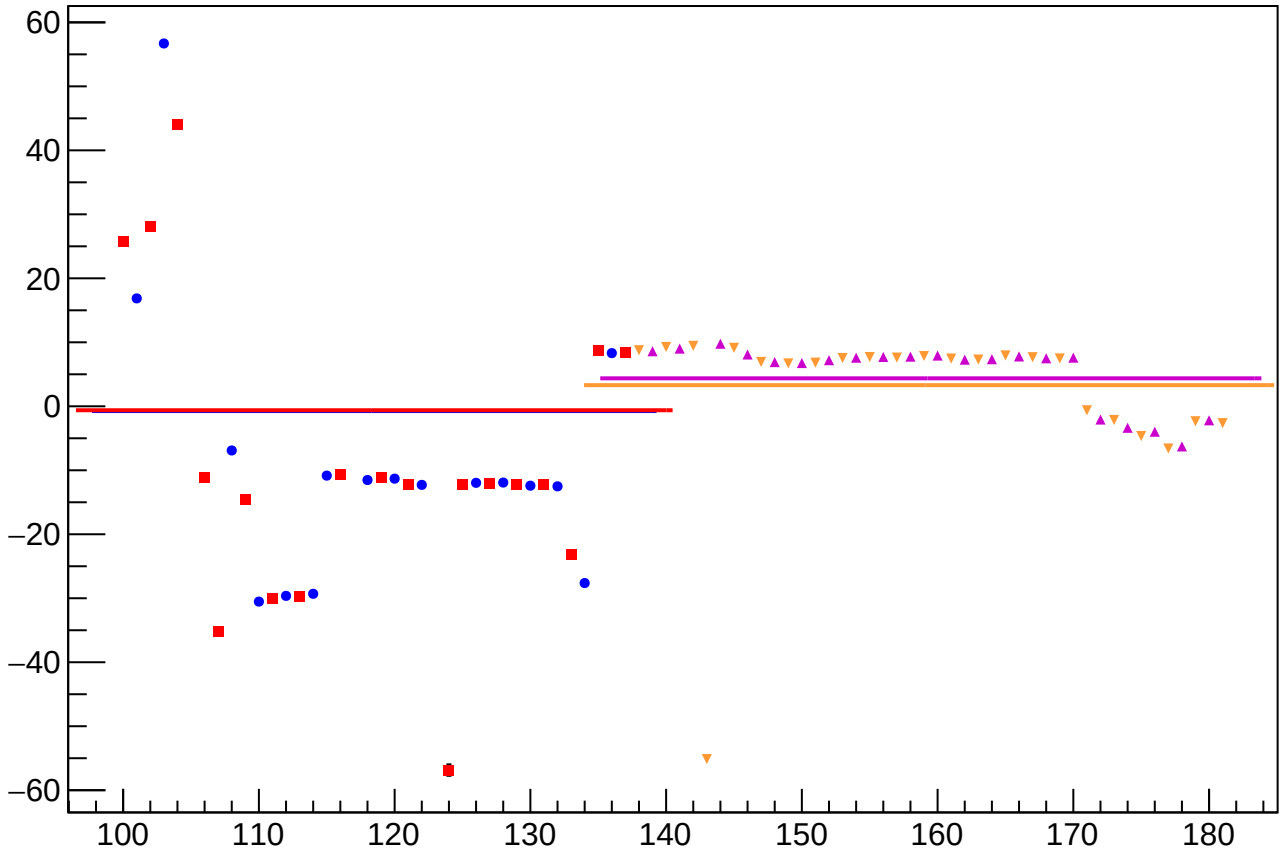
Left: 2.167+/-0.183 $\chi^2$/NDF: 1998.9/43

Right: 10.451+/-0.448 $\chi^2$/NDF: 830.5/34

In: 2.914+/-0.241 $\chi^2$/NDF:1340.6/36

Out: 3.765+/-0.237 $\chi^2$/NDF:1776.0/41

All: 3.348+/-0.169 $\chi^2$/NDF: 3122.9/78




Right In: -0.745+/-0.036 $\chi^2$/NDF: 367993.9/15

Left Out: 3.304+/-0.011 $\chi^2$/NDF:494519.4/22

Right Out: -0.618+/-0.037 $\chi^2$/NDF: 316492.6/18

Left In: 4.370+/-0.012 $\chi^2$/NDF:205712.3/20

Left: 3.831+/-0.008 $\chi^2$/NDF: 704514.7/43

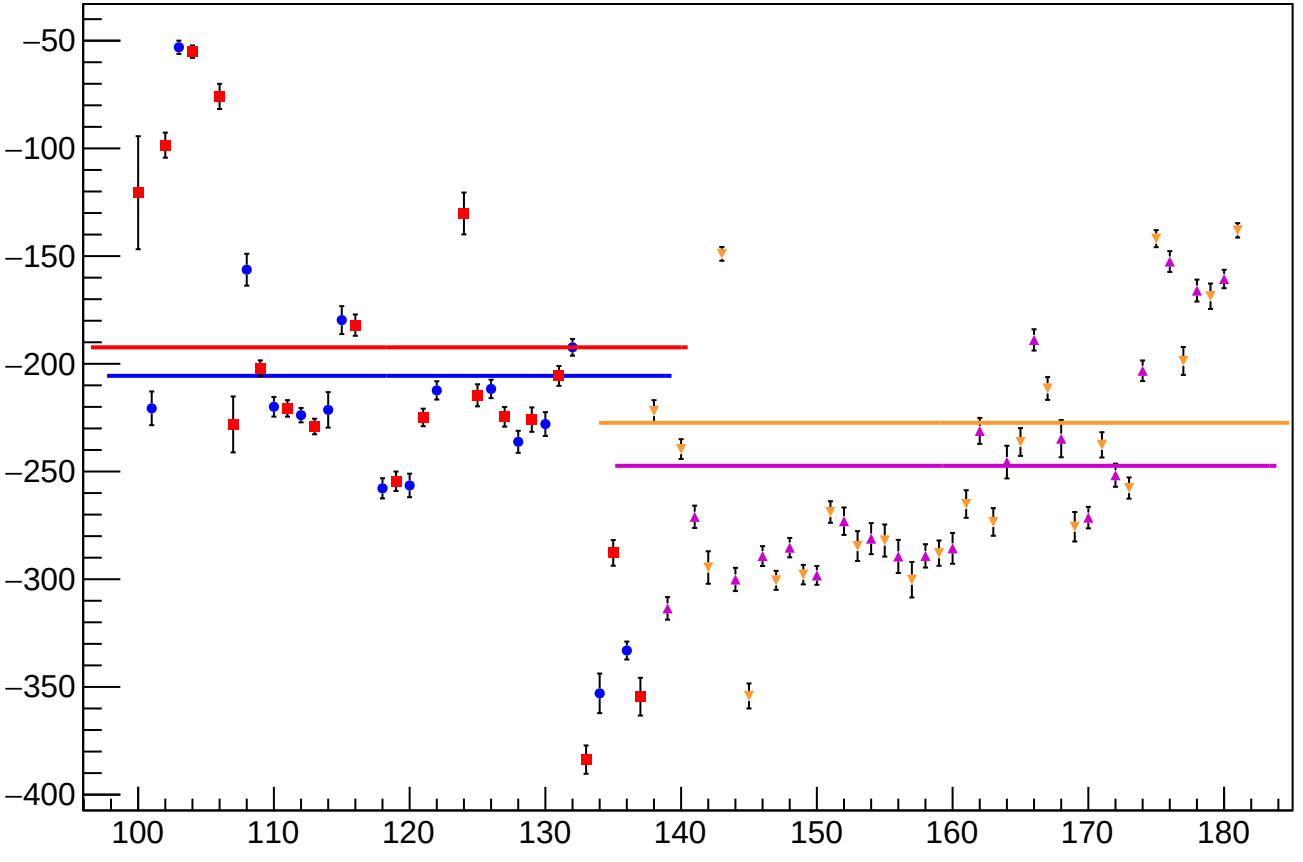
Right: -0.684+/-0.026 $\chi^2$/NDF: 684492.5/34

In: 3.887+/-0.011 $\chi^2$/NDF:592109.9/36

Out: 2.966+/-0.011 $\chi^2$/NDF:821096.2/41

All: 3.424+/-0.008 $\chi^2$/NDF: 1416722.8/78

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -205.577+/-1.185 $\chi^2$/NDF: 4056.0/15

Left Out: -227.381+/-1.079 $\chi^2$/NDF:3540.5/22

Right Out: -192.345+/-1.123 $\chi^2$/NDF: 4969.8/18

Left In: -247.348+/-1.174 $\chi^2$/NDF:2032.0/20

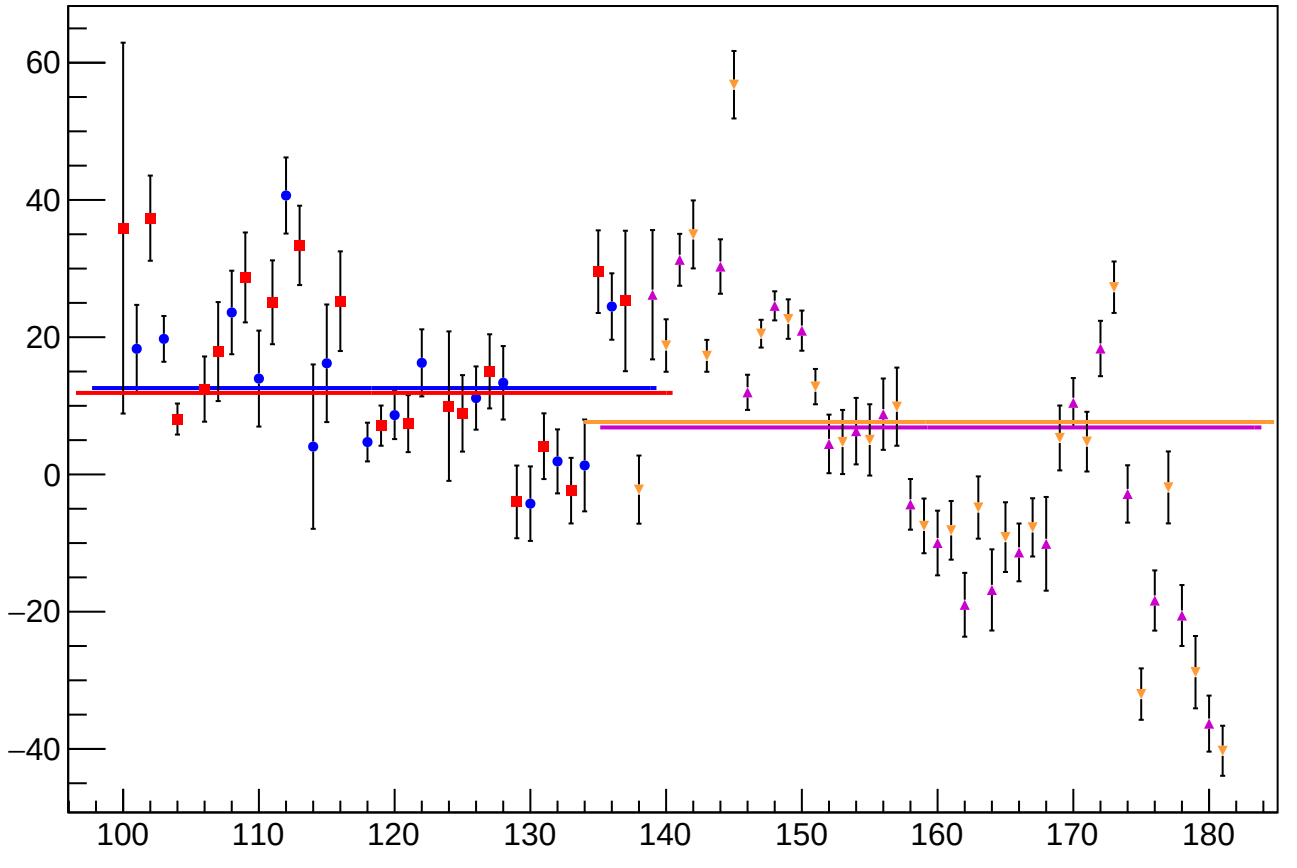
Left: -236.520+/-0.795 $\chi^2$/NDF: 5729.3/43

Right: -198.605+/-0.815 $\chi^2$/NDF: 9091.6/34

In: -226.645+/-0.834 $\chi^2$/NDF:6715.1/36

Out: -210.555+/-0.778 $\chi^2$/NDF:9016.7/41

All: -218.040+/-0.569 $\chi^2$/NDF: 15930.7/78




Right In: 12.592+/-1.203 $\chi^2$/NDF: 68.5/15

Left Out: 7.642+/-0.778 $\chi^2$/NDF:655.9/22

Right Out: 11.880+/-1.122 $\chi^2$/NDF: 84.9/18

Left In: 6.850+/-0.845 $\chi^2$/NDF:469.6/20

Left: 7.278+/-0.572 $\chi^2$/NDF: 1125.9/43

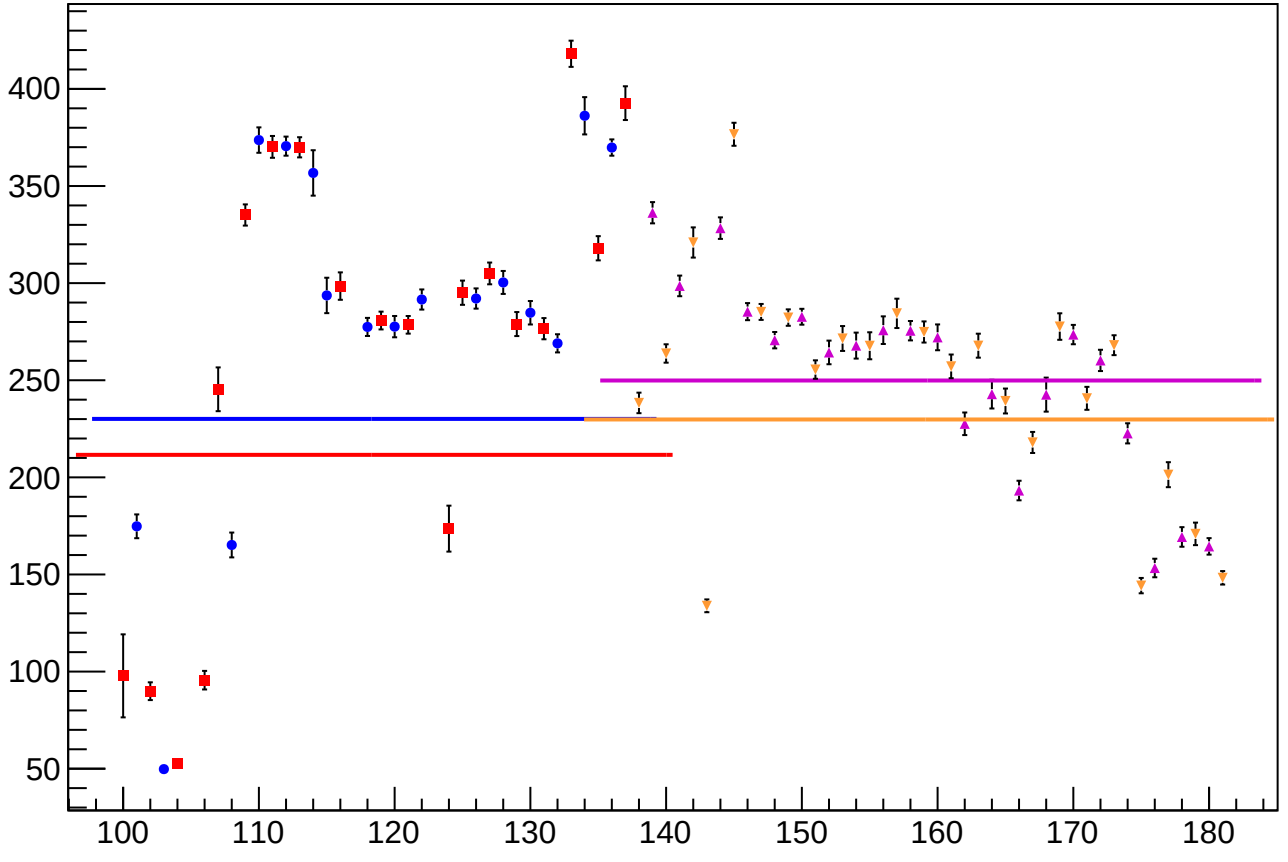
Right: 12.211+/-0.820 $\chi^2$/NDF: 153.6/34

In: 8.747+/-0.691 $\chi^2$/NDF:553.3/36

Out: 9.017+/-0.639 $\chi^2$/NDF:750.5/41

All: 8.893+/-0.469 $\chi^2$/NDF: 1303.9/78

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 230.095+/-1.260 $\chi^2$/NDF: 9375.6/15

Left Out: 229.801+/-1.070 $\chi^2$/NDF:3527.2/22

Right Out: 211.588+/-1.195 $\chi^2$/NDF: 11472.1/18

Left In: 249.869+/-1.154 $\chi^2$/NDF:2016.2/20

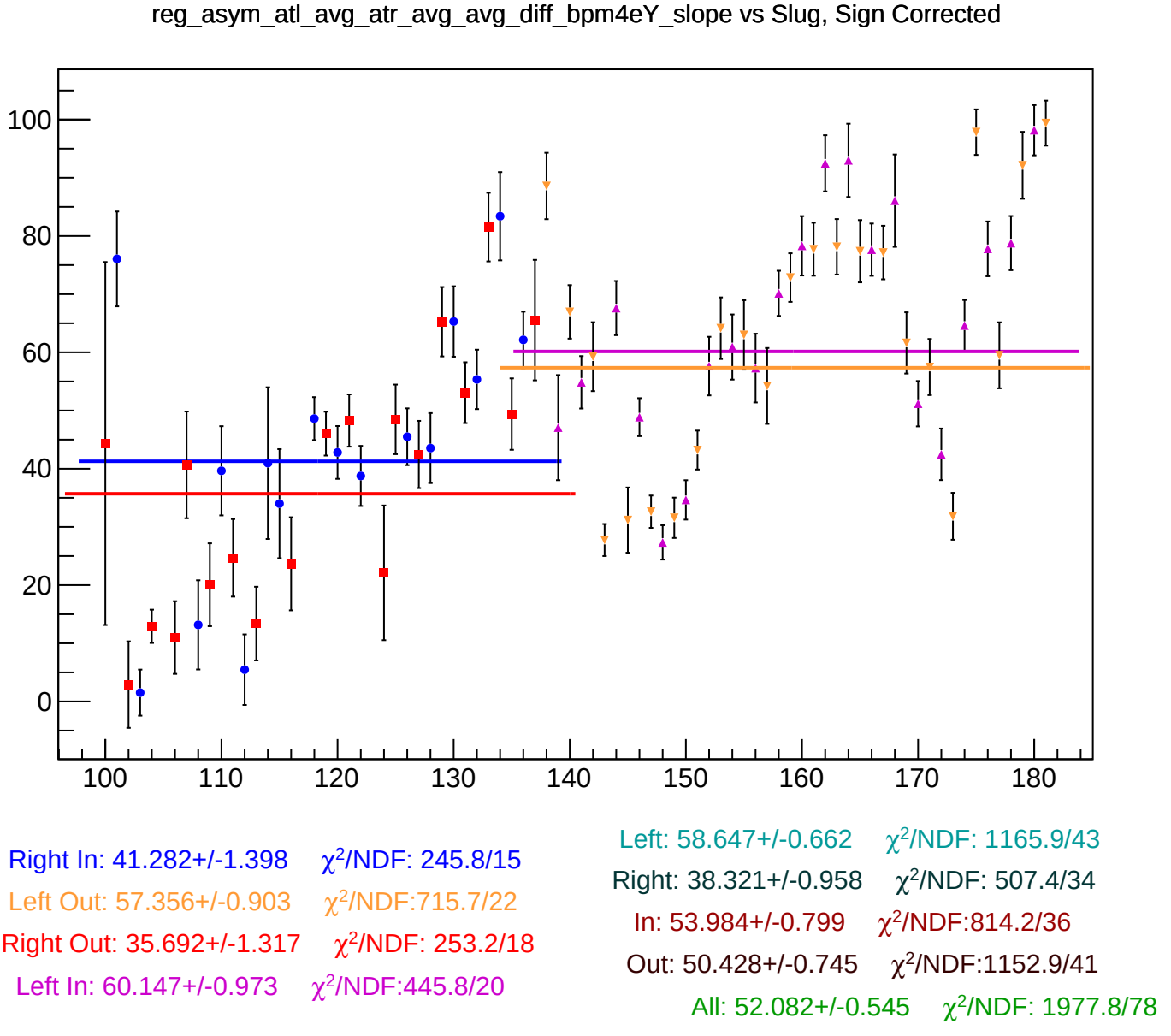
Left: 239.075+/-0.784 $\chi^2$/NDF: 5706.0/43

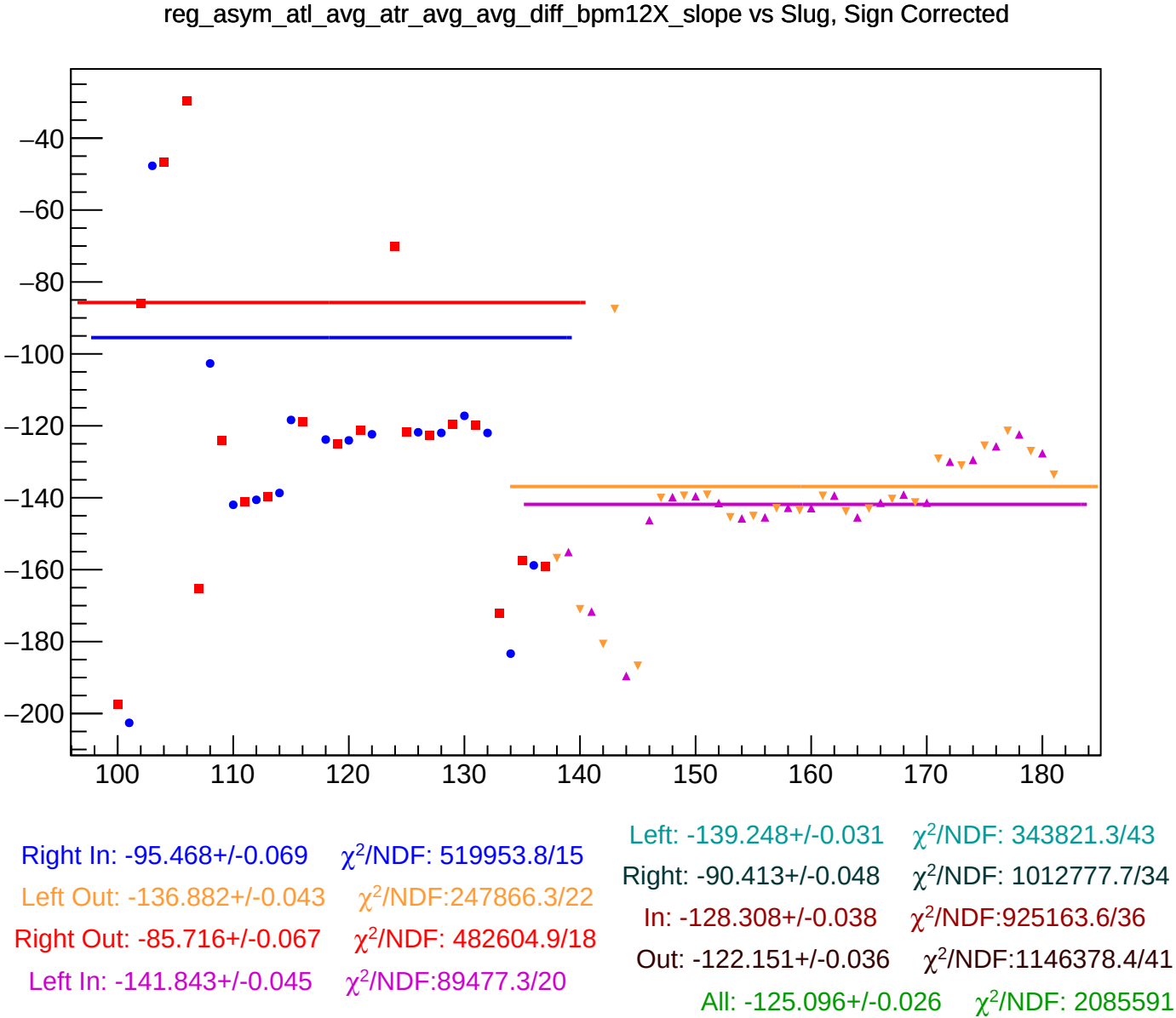
Right: 220.357+/-0.867 $\chi^2$/NDF: 20961.4/34

In: 240.847+/-0.851 $\chi^2$/NDF:11525.8/36

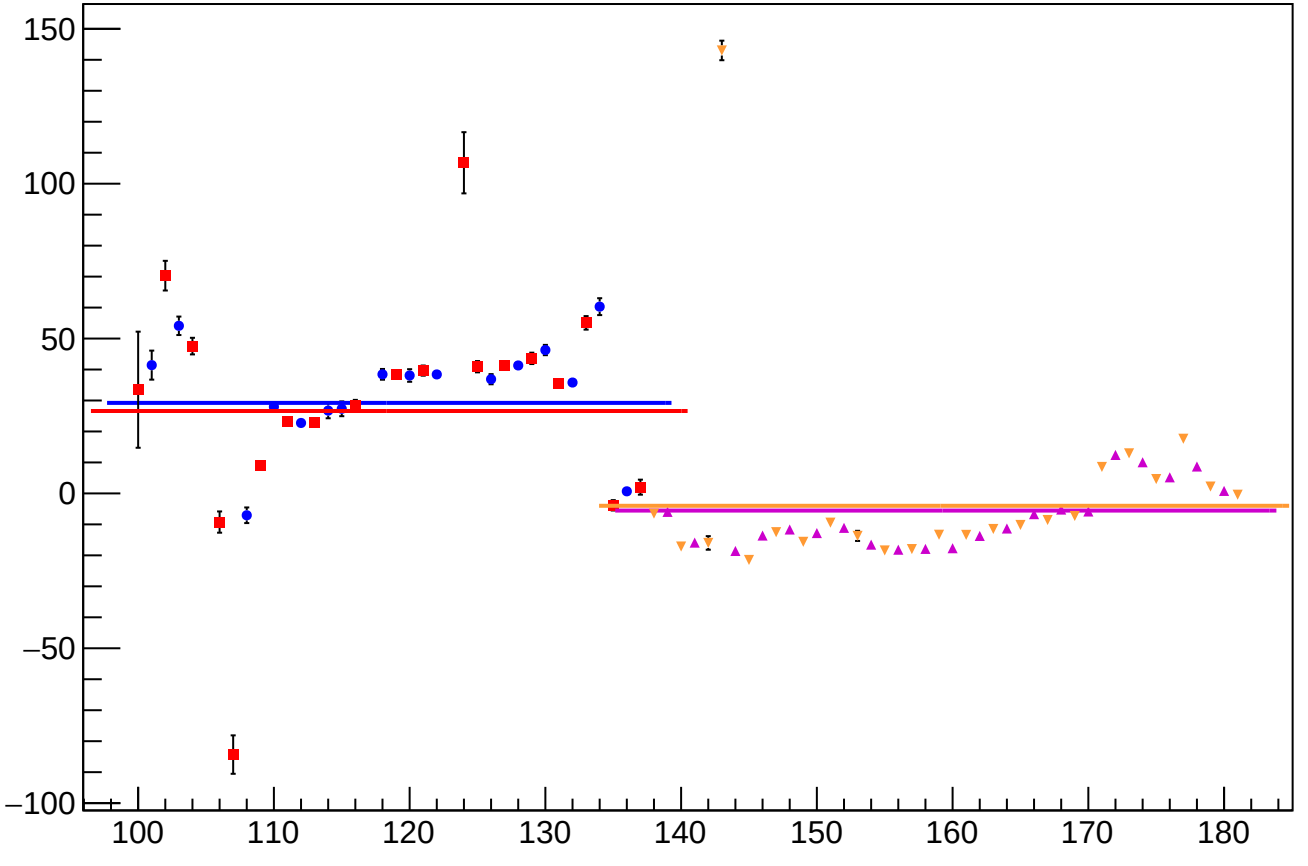
Out: 221.702+/-0.797 $\chi^2$/NDF:15128.2/41

All: 230.650+/-0.582 $\chi^2$/NDF: 26923.7/78


reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
100
80
60
40
20
0
100
110
120
130
140
150
160
170
180
Right In: 41.282+/-1.398 χ2/NDF: 245.8/15
Left Out: 57.356+/-0.903 χ2/NDF:715.7/22
Right Out: 35.692+/-1.317 χ2/NDF: 253.2/18
Left In: 60.147+/-0.973 χ2/NDF:445.8/20
Left: 58.647+/-0.662 χ2/NDF: 1165.9/43
Right: 38.321+/-0.958 χ2/NDF: 507.4/34
In: 53.984+/-0.799 χ2/NDF:814.2/36
Out: 50.428+/-0.745 χ2/NDF:1152.9/41
All: 52.082+/-0.545 χ2/NDF: 1977.8/78


reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected
−40
−60
−80
−100
−120
−140
−160
−180
−200
100
110
120
130
140
150
160
170
180
Right In: -95.468+/-0.069 χ²/NDF: 519953.8/15
Left Out: -136.882+/-0.043 χ²/NDF:247866.3/22
Right Out: -85.716+/-0.067 χ²/NDF: 482604.9/18
Left In: -141.843+/-0.045 χ²/NDF:89477.3/20
Left: -139.248+/-0.031 χ²/NDF: 343821.3/43
Right: -90.413+/-0.048 χ²/NDF: 1012777.7/34
In: -128.308+/-0.038 χ²/NDF:925163.6/36
Out: -122.151+/-0.036 χ²/NDF:1146378.4/41
All: -125.096+/-0.026 χ²/NDF: 2085591.6/78

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 29.229+/-0.424 $\chi^2$/NDF: 1342.9/15

Left Out: -3.994+/-0.279 $\chi^2$/NDF:3582.5/22

Right Out: 26.609+/-0.414 $\chi^2$/NDF: 1920.6/18

Left In: -5.542+/-0.287 $\chi^2$/NDF:1195.7/20

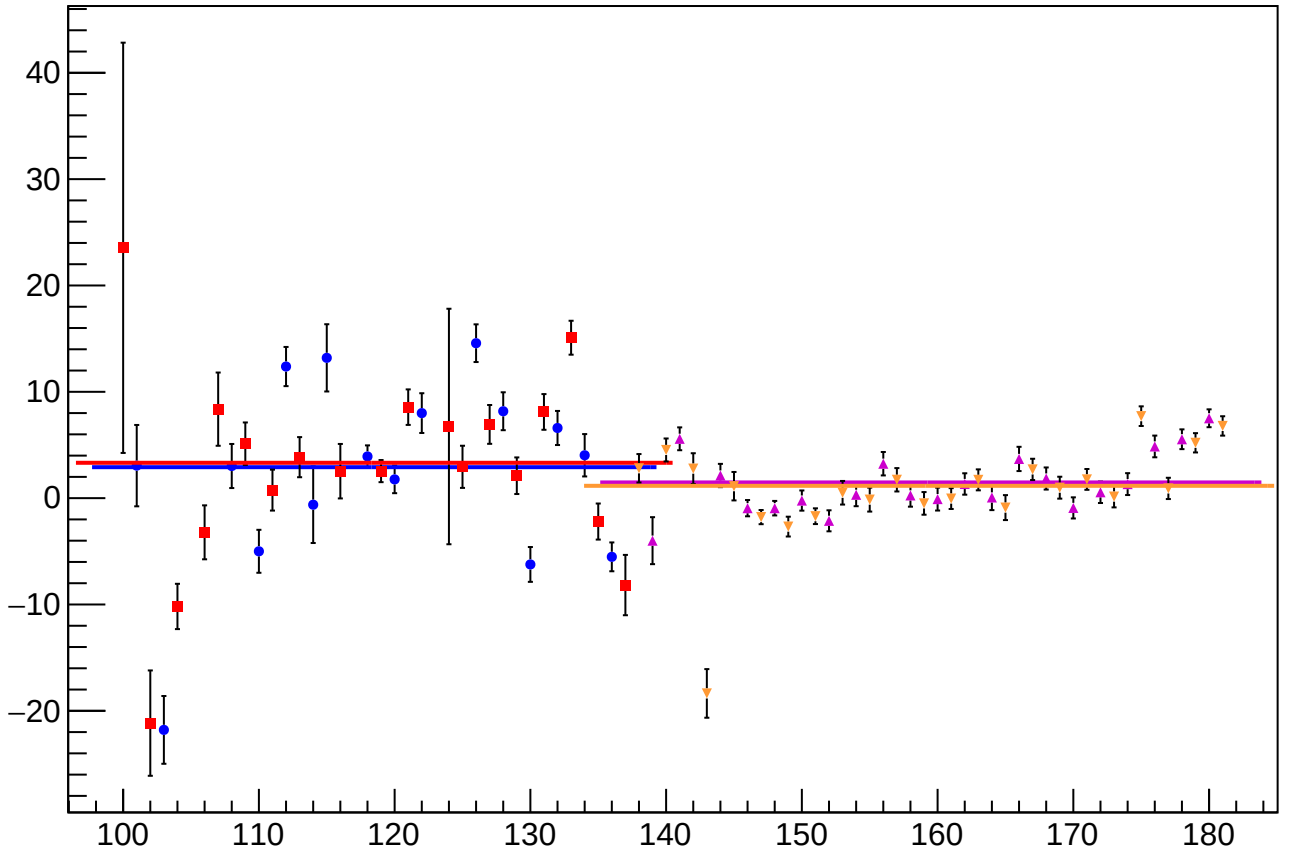
Left: -4.748+/-0.200 $\chi^2$/NDF: 4793.2/43

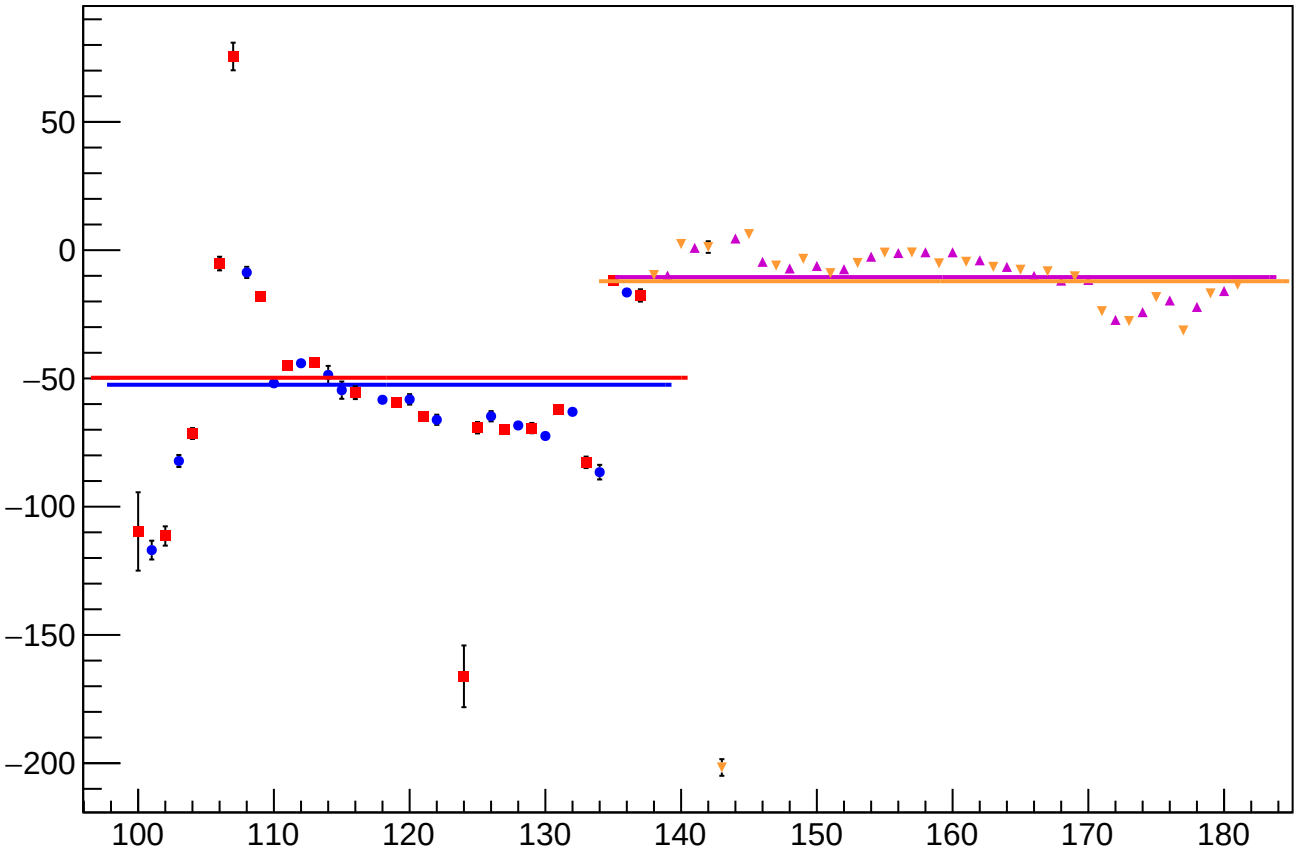
Right: 27.887+/-0.296 $\chi^2$/NDF: 3283.1/34

In: 5.358+/-0.238 $\chi^2$/NDF:7149.5/36

Out: 5.568+/-0.231 $\chi^2$/NDF:9258.6/41

All: 5.466+/-0.166 $\chi^2$/NDF: 16408.5/78


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
40
30
20
10
0
−10
−20
100
110
120
130
140
150
160
170
180
Right In: 2.912+/-0.442 χ²/NDF: 250.0/15
Left Out: 1.160+/-0.211 χ²/NDF:258.1/22
Right Out: 3.326+/-0.454 χ²/NDF: 181.8/18
Left In: 1.478+/-0.217 χ²/NDF:161.1/20
Left: 1.314+/-0.151 χ²/NDF: 420.3/43
Right: 3.114+/-0.317 χ²/NDF: 432.2/34
In: 1.756+/-0.195 χ²/NDF:419.6/36
Out: 1.545+/-0.191 χ²/NDF:458.6/41
All: 1.648+/-0.136 χ²/NDF: 878.7/78




Right In: -52.467+/-0.488 $\chi^2$/NDF: 2330.2/15

Left Out: -12.105+/-0.276 $\chi^2$/NDF:4518.3/22

Right Out: -49.734+/-0.494 $\chi^2$/NDF: 3009.7/18

Left In: -10.493+/-0.283 $\chi^2$/NDF:891.4/20

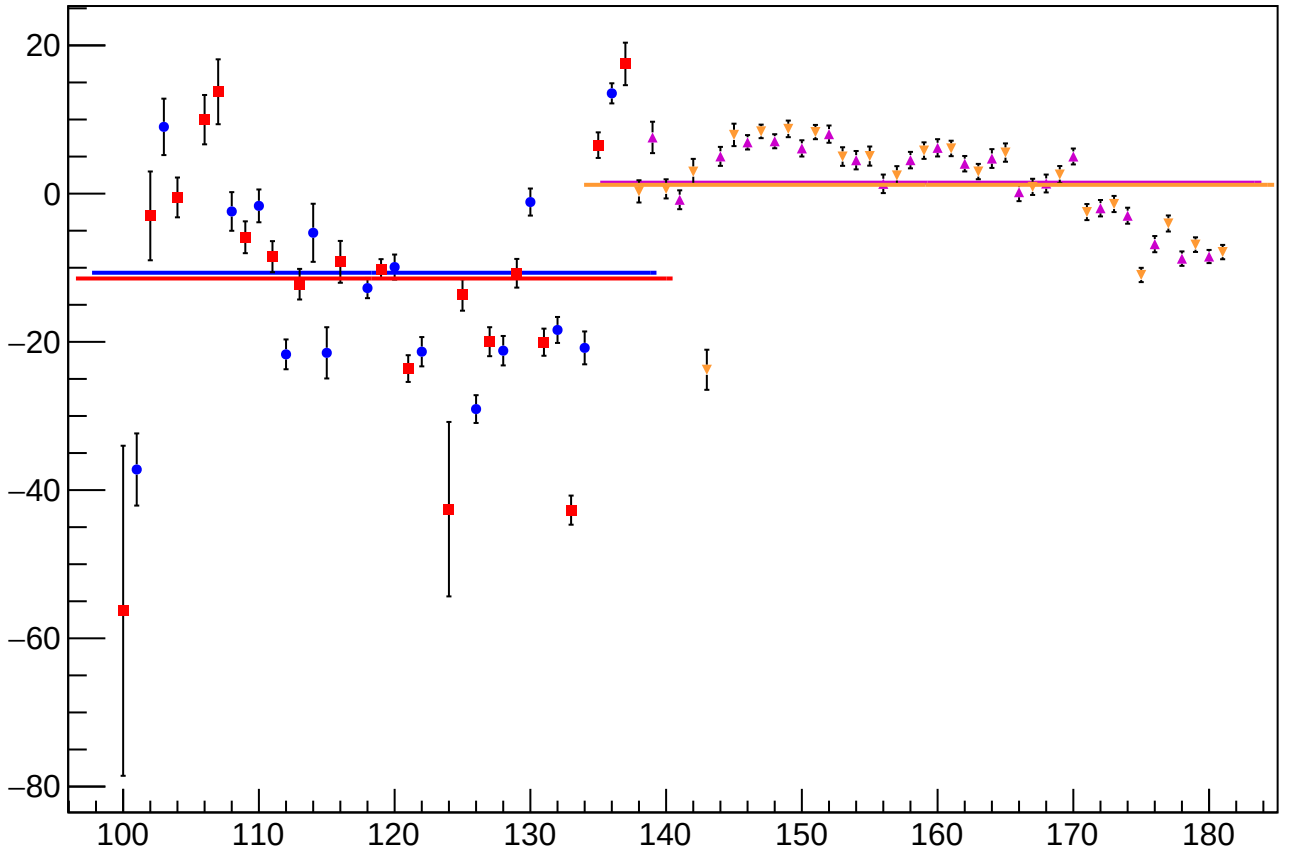
Left: -11.318+/-0.197 $\chi^2$/NDF: 5426.4/43

Right: -51.118+/-0.347 $\chi^2$/NDF: 5355.4/34

In: -21.040+/-0.245 $\chi^2$/NDF:8765.7/36

Out: -21.055+/-0.241 $\chi^2$/NDF:11949.3/41

All: -21.048+/-0.172 $\chi^2$/NDF: 20715.0/78




Right In: -10.675+/-0.505 $\chi^2$/NDF: 666.4/15

Left Out: 1.190+/-0.239 $\chi^2$/NDF:699.4/22

Right Out: -11.450+/-0.516 $\chi^2$/NDF: 665.7/18

Left In: 1.478+/-0.245 $\chi^2$/NDF:510.0/20

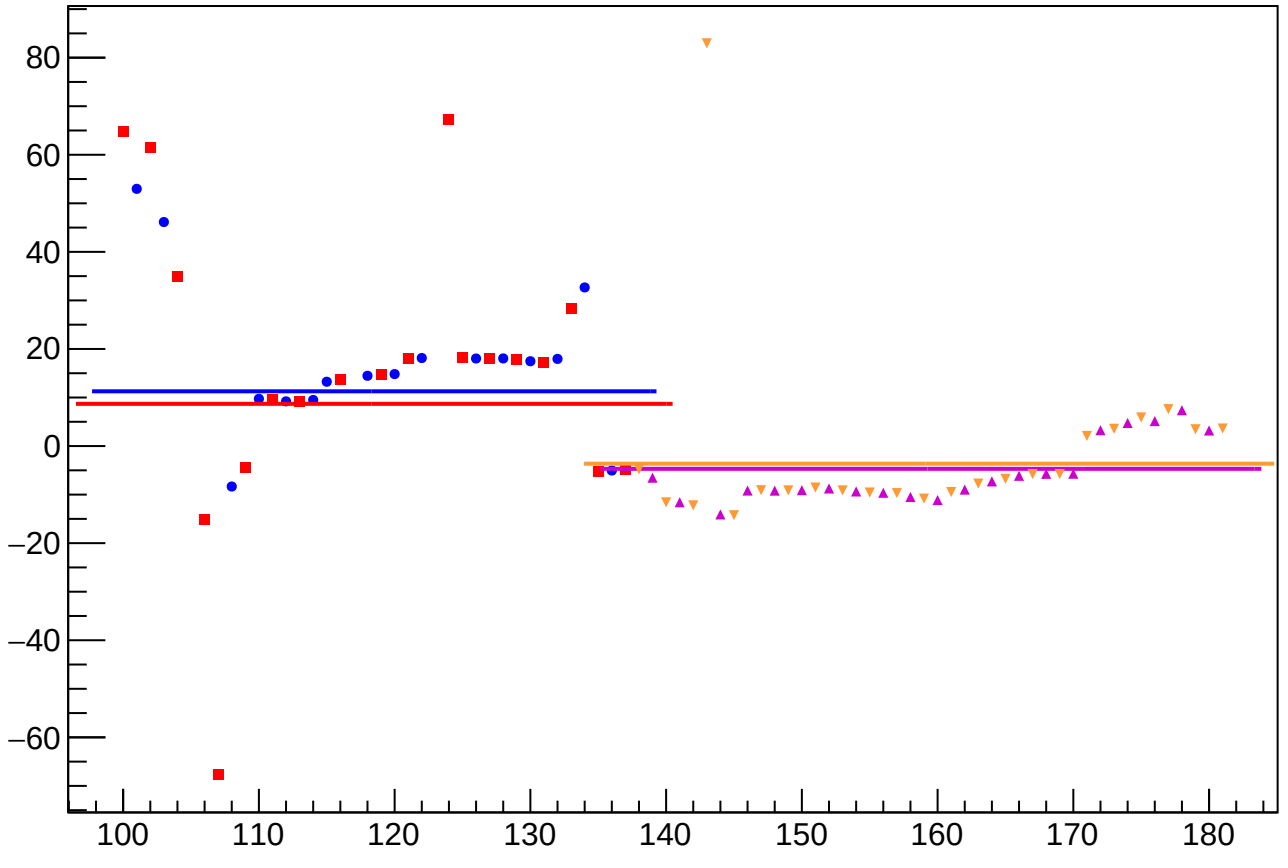
Left: 1.330+/-0.171 $\chi^2$/NDF: 1210.0/43

Right: -11.054+/-0.361 $\chi^2$/NDF: 1333.3/34

In: -0.837+/-0.221 $\chi^2$/NDF:1644.3/36

Out: -1.040+/-0.217 $\chi^2$/NDF:1859.2/41

All: -0.940+/-0.155 $\chi^2$/NDF: 3503.9/78




Right In: 11.277+/-0.030 $\chi^2$/NDF: 349346.9/15

Left Out: -3.633+/-0.011 $\chi^2$/NDF:786501.8/22

Right Out: 8.698+/-0.031 $\chi^2$/NDF: 436156.0/18

Left In: -4.690+/-0.011 $\chi^2$/NDF:346928.7/20

Left: -4.157+/-0.008 $\chi^2$/NDF: 1138242.7/43

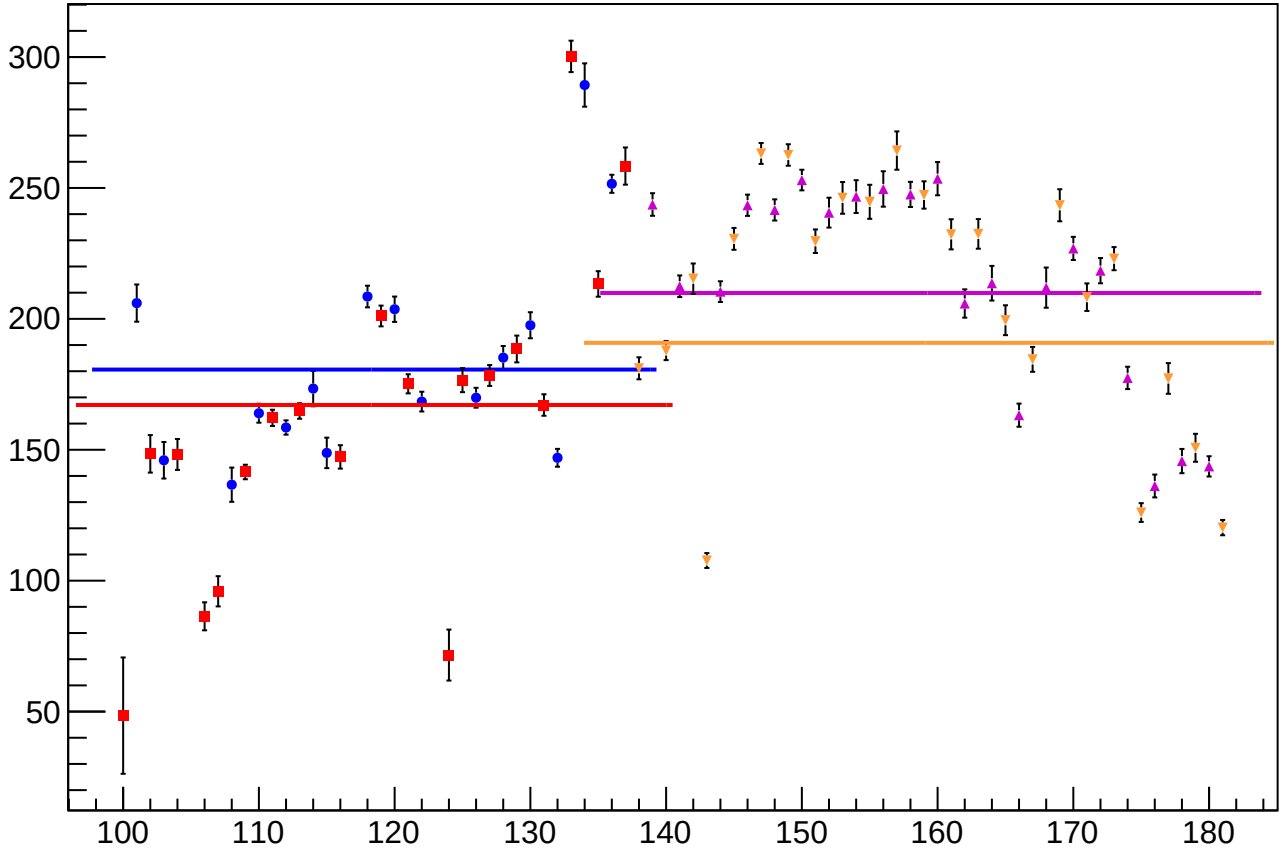
Right: 10.050+/-0.022 $\chi^2$/NDF: 789035.8/34

In: -2.843+/-0.010 $\chi^2$/NDF:948076.2/36

Out: -2.345+/-0.010 $\chi^2$/NDF:1360572.1/41

All: -2.593+/-0.007 $\chi^2$/NDF: 2309849.7/78

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 180.634+/-1.090 $\chi^2$/NDF: 993.4/15

Left Out: 190.845+/-0.941 $\chi^2$/NDF:3267.9/22

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 209.882+/-1.027 $\chi^2$/NDF:1476.4/20

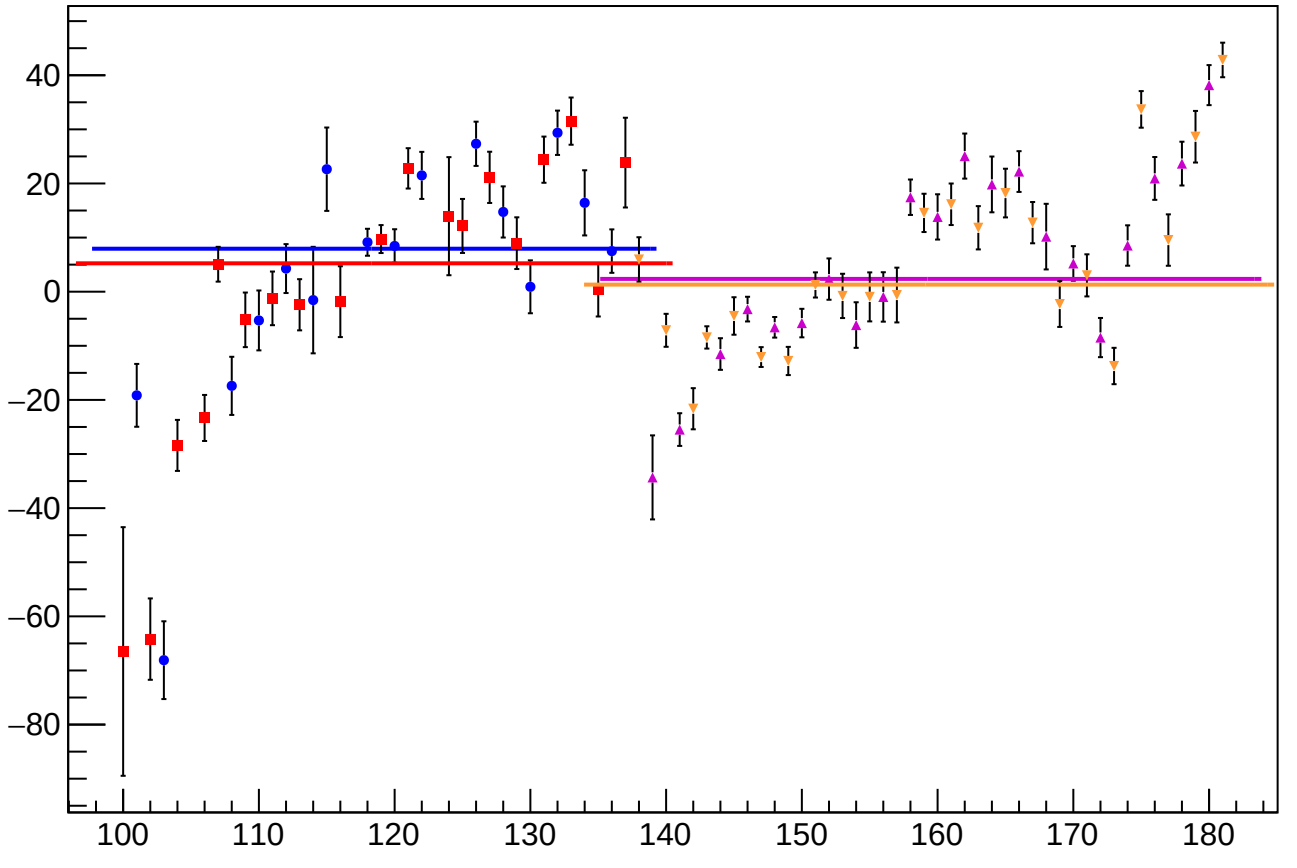
Left: 199.535+/-0.694 $\chi^2$/NDF: 4931.1/43

Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 196.126+/-0.747 $\chi^2$/NDF:2851.4/36

Out: 179.937+/-0.692 $\chi^2$/NDF:5044.9/41

All: 187.410+/-0.508 $\chi^2$/NDF: 8149.1/78




Right In: 7.942+/-1.113 $\chi^2$/NDF: 232.9/15

Left Out: 1.308+/-0.683 $\chi^2$/NDF:530.4/22

Right Out: 5.244+/-1.062 $\chi^2$/NDF: 302.9/18

Left In: 2.362+/-0.742 $\chi^2$/NDF:427.3/20

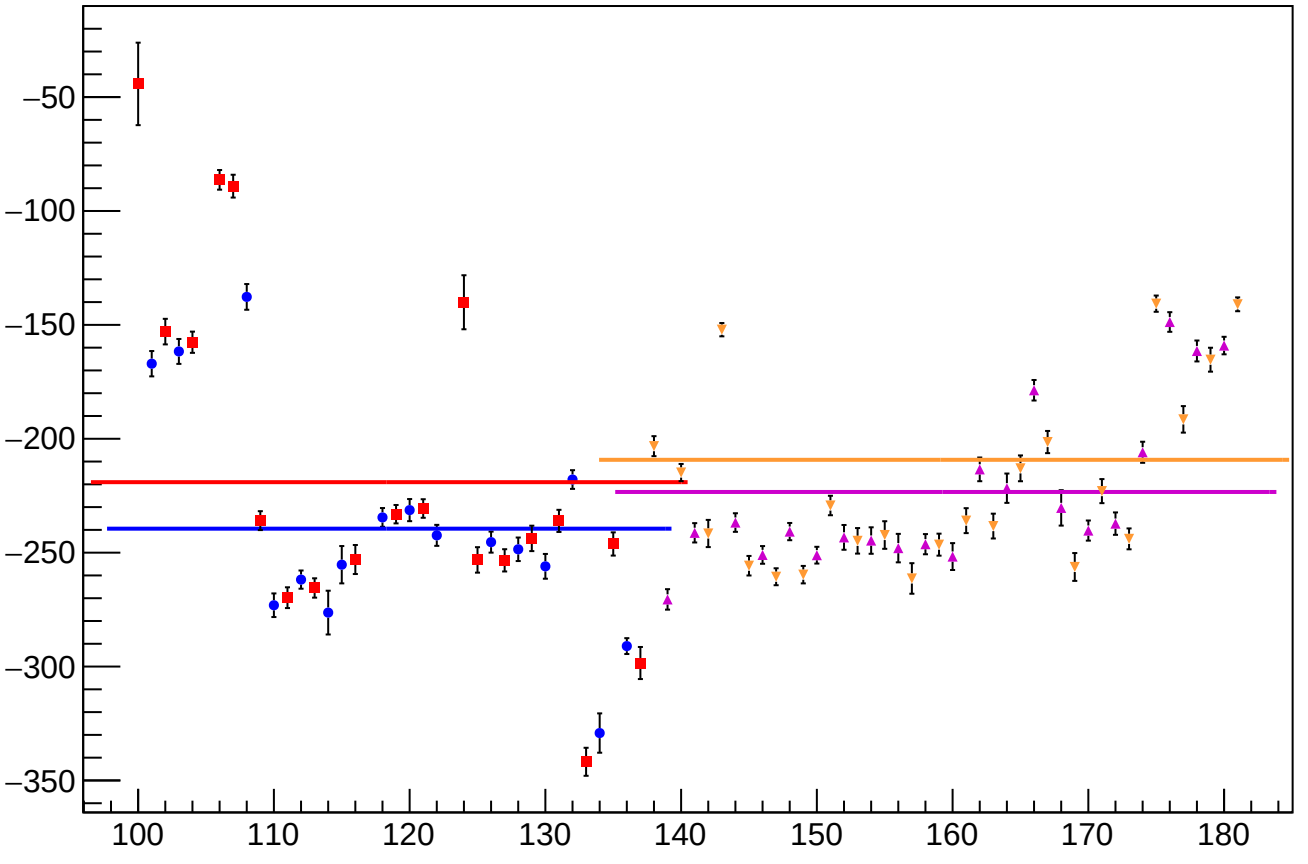
Left: 1.791+/-0.502 $\chi^2$/NDF: 958.8/43

Right: 6.530+/-0.768 $\chi^2$/NDF: 538.9/34

In: 4.079+/-0.618 $\chi^2$/NDF:677.6/36

Out: 2.459+/-0.574 $\chi^2$/NDF:843.0/41

All: 3.210+/-0.421 $\chi^2$/NDF: 1524.4/78




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -209.237+/-0.935 $\chi^2$/NDF:2240.8/22

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -223.356+/-1.011 $\chi^2$/NDF:1260.3/20

Left: -215.747+/-0.686 $\chi^2$/NDF: 3606.3/43

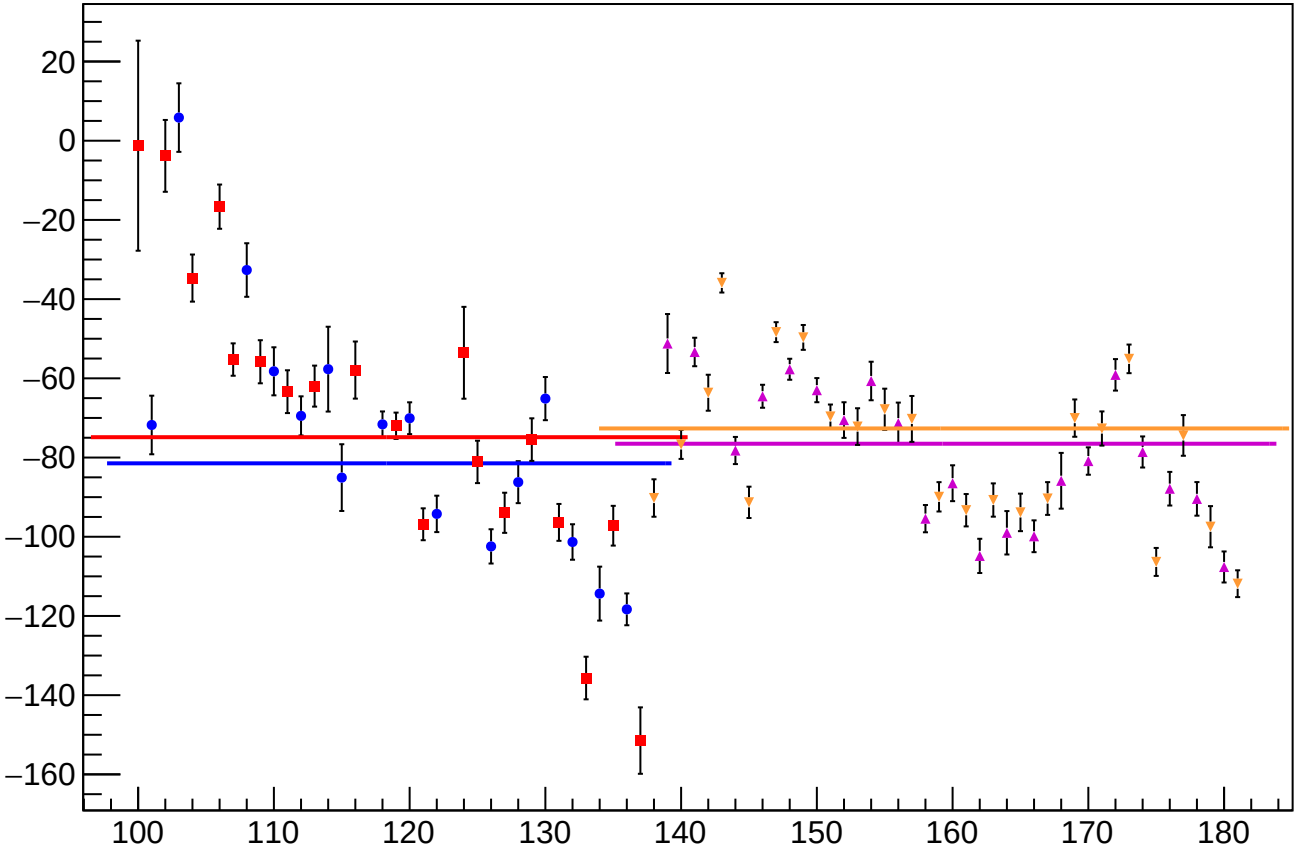
Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -229.754+/-0.785 $\chi^2$/NDF:2523.5/36

Out: -213.037+/-0.732 $\chi^2$/NDF:5332.8/41

All: -220.813+/-0.535 $\chi^2$/NDF: 8098.9/78

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -81.462+/-1.287 $\chi^2$/NDF: 366.5/15

Left Out: -72.653+/-0.792 $\chi^2$/NDF:793.9/22

Right Out: -74.861+/-1.230 $\chi^2$/NDF: 576.6/18

Left In: -76.512+/-0.855 $\chi^2$/NDF:386.2/20

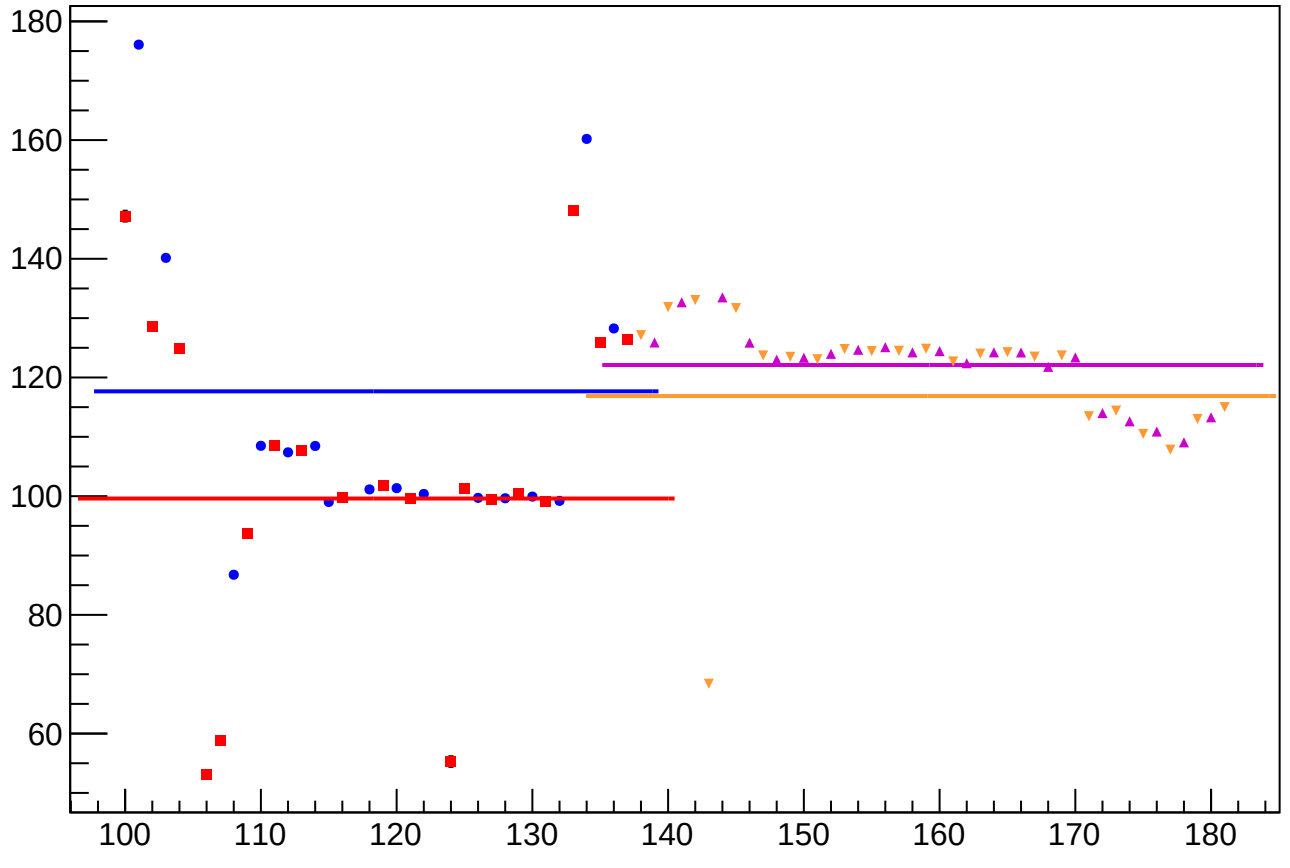
Left: -74.436+/-0.581 $\chi^2$/NDF: 1191.0/43

Right: -78.013+/-0.889 $\chi^2$/NDF: 956.9/34

In: -78.028+/-0.712 $\chi^2$/NDF:762.9/36

Out: -73.300+/-0.666 $\chi^2$/NDF:1372.8/41

All: -75.506+/-0.486 $\chi^2$/NDF: 2159.2/78




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 116.871+/-0.037 $\chi^2$/NDF:203486.8/22

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 122.103+/-0.039 $\chi^2$/NDF:25737.6/20

Left: 119.360+/-0.027 $\chi^2$/NDF: 238612.7/43

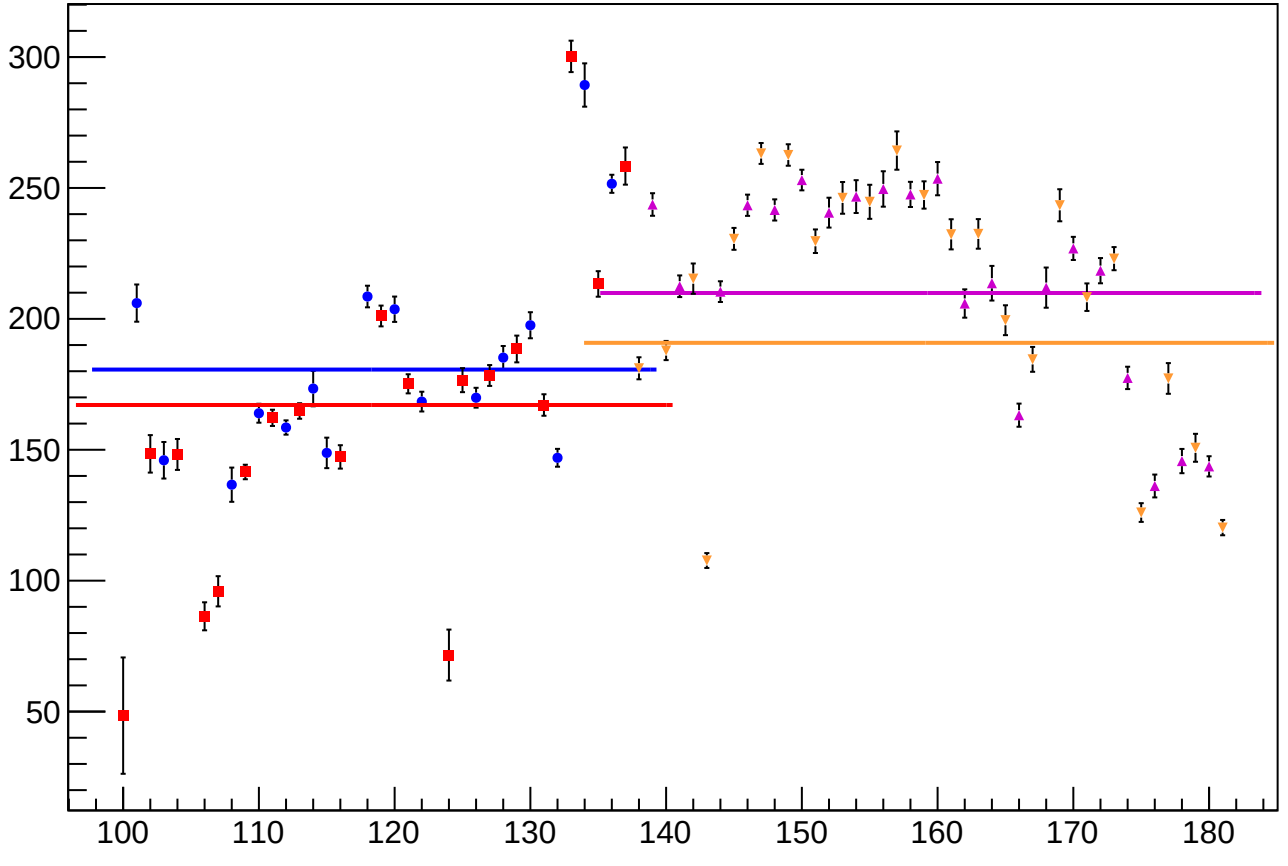
Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

In: 121.217+/-0.035 $\chi^2$/NDF:123707.8/36

Out: 113.086+/-0.033 $\chi^2$/NDF:416818.9/41

All: 116.905+/-0.024 $\chi^2$/NDF: 569189.2/78

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 180.634+/-1.090 $\chi^2$/NDF: 993.4/15

Left Out: 190.845+/-0.941 $\chi^2$/NDF:3267.9/22

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 209.882+/-1.027 $\chi^2$/NDF:1476.4/20

Left: 199.535+/-0.694 $\chi^2$/NDF: 4931.1/43

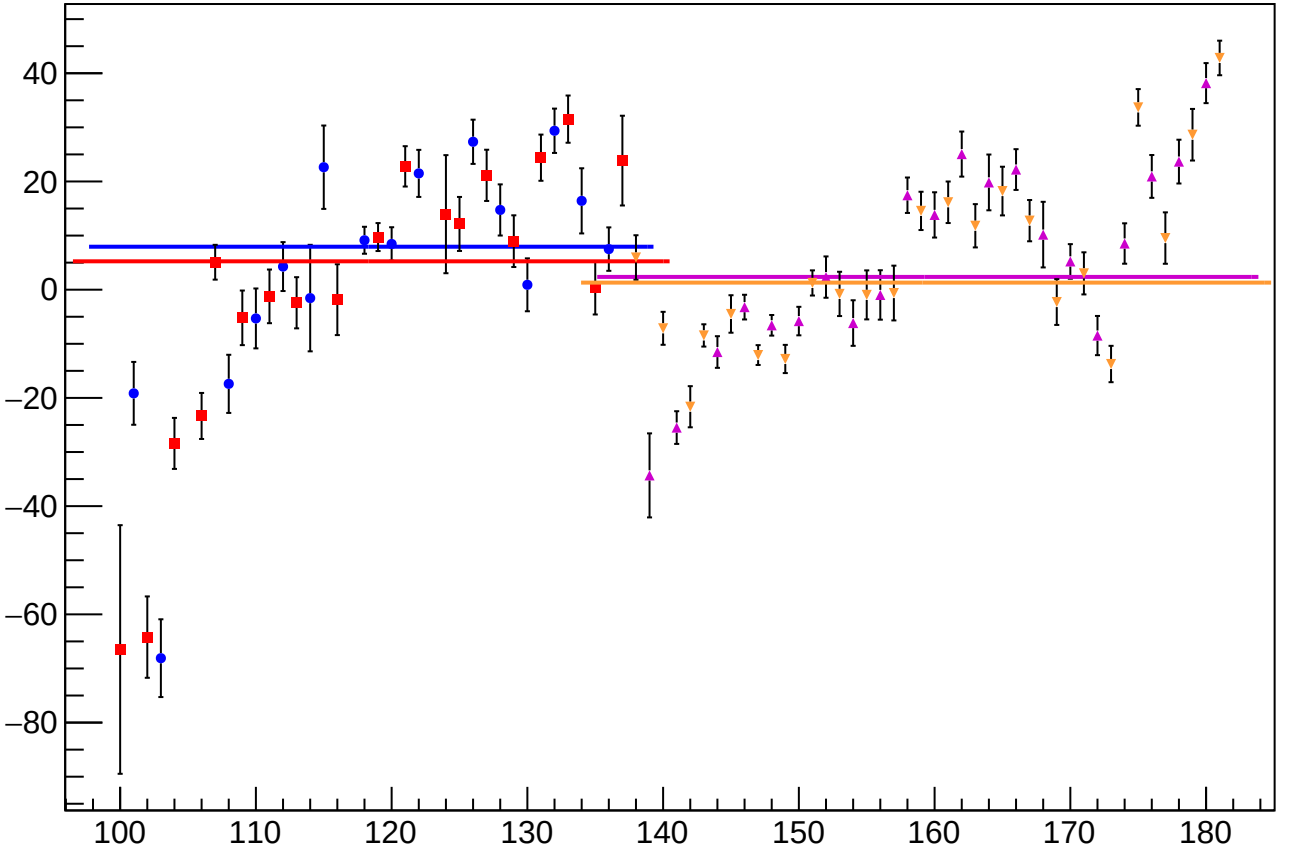
Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 196.126+/-0.747 $\chi^2$/NDF:2851.4/36

Out: 179.937+/-0.692 $\chi^2$/NDF:5044.9/41

All: 187.410+/-0.508 $\chi^2$/NDF: 8149.1/78

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 7.942+/-1.113 $\chi^2$/NDF: 232.9/15

Left Out: 1.308+/-0.683 $\chi^2$/NDF:530.4/22

Right Out: 5.244+/-1.062 $\chi^2$/NDF: 302.9/18

Left In: 2.362+/-0.742 $\chi^2$/NDF:427.3/20

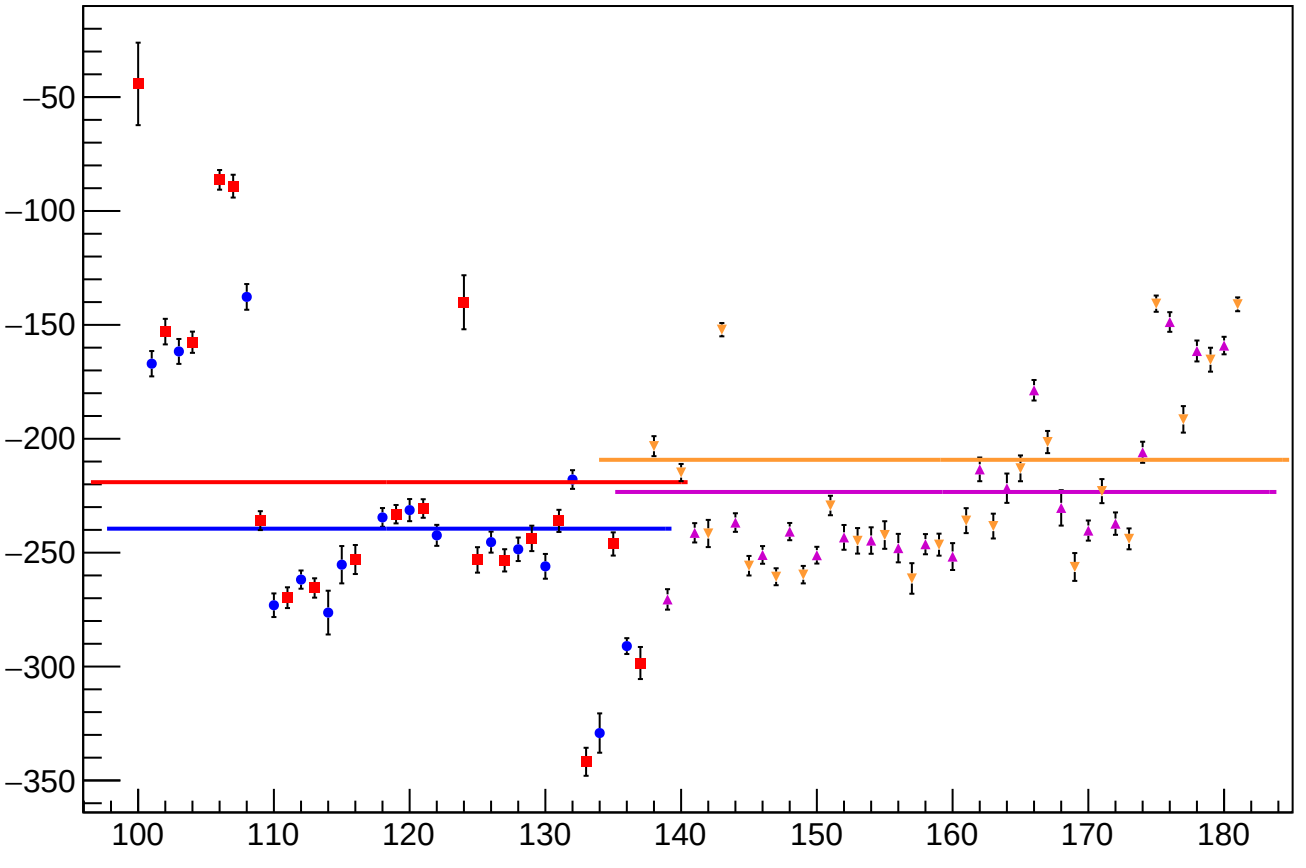
Left: 1.791+/-0.502 $\chi^2$/NDF: 958.8/43

Right: 6.530+/-0.768 $\chi^2$/NDF: 538.9/34

In: 4.079+/-0.618 $\chi^2$/NDF:677.6/36

Out: 2.459+/-0.574 $\chi^2$/NDF:843.0/41

All: 3.210+/-0.421 $\chi^2$/NDF: 1524.4/78




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -209.237+/-0.935 $\chi^2$/NDF:2240.8/22

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -223.356+/-1.011 $\chi^2$/NDF:1260.3/20

Left: -215.747+/-0.686 $\chi^2$/NDF: 3606.3/43

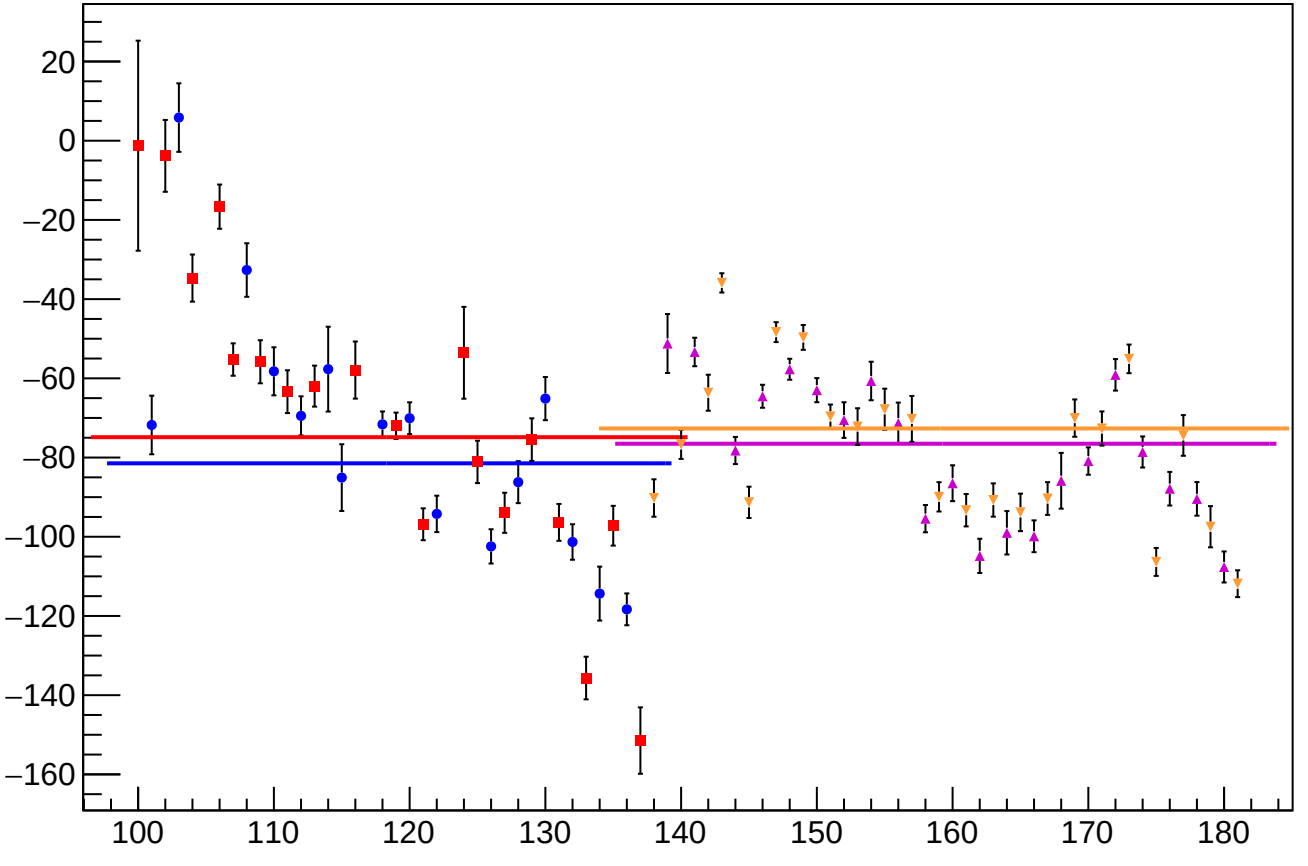
Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -229.754+/-0.785 $\chi^2$/NDF:2523.5/36

Out: -213.037+/-0.732 $\chi^2$/NDF:5332.8/41

All: -220.813+/-0.535 $\chi^2$/NDF: 8098.9/78

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -81.462+/-1.287 $\chi^2$/NDF: 366.5/15

Left Out: -72.653+/-0.792 $\chi^2$/NDF:793.9/22

Right Out: -74.861+/-1.230 $\chi^2$/NDF: 576.6/18

Left In: -76.512+/-0.855 $\chi^2$/NDF:386.2/20

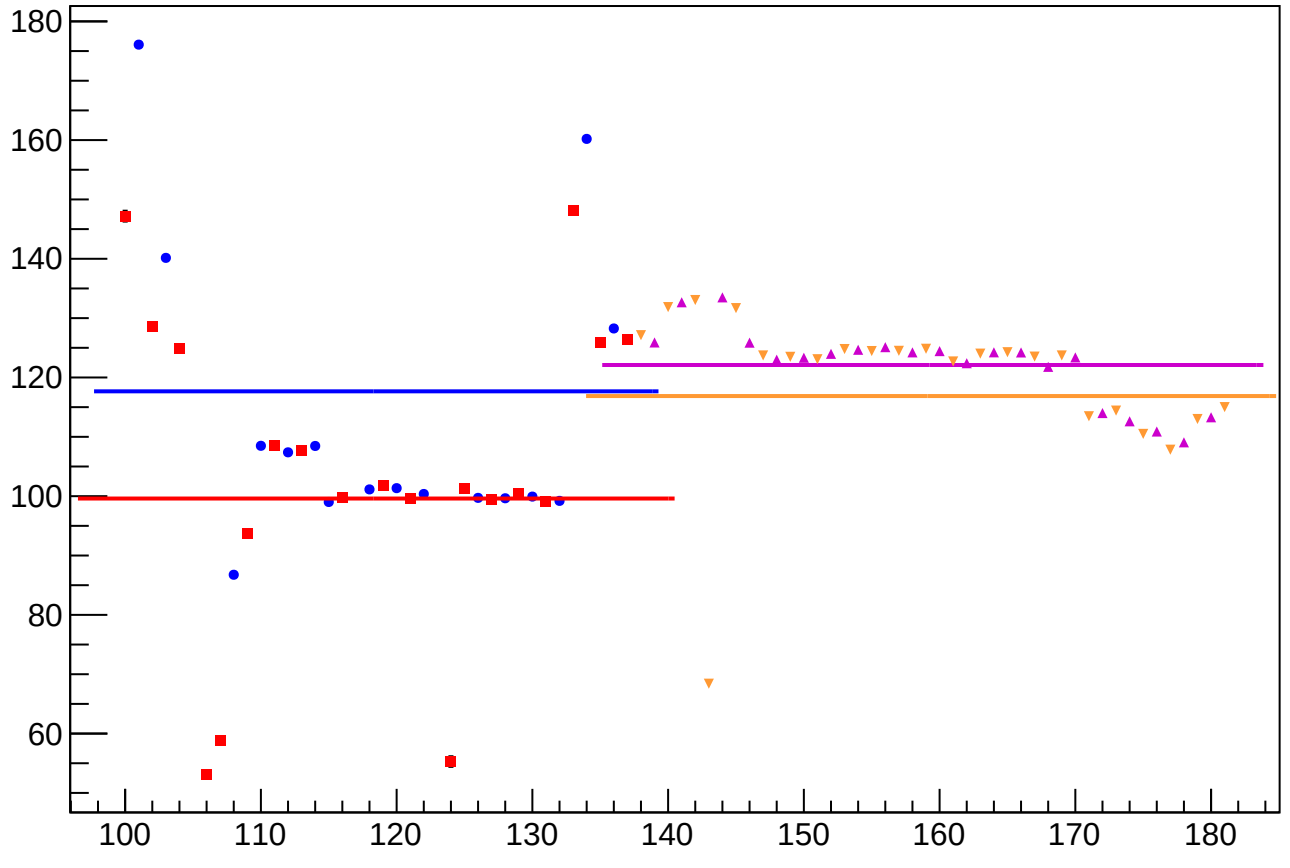
Left: -74.436+/-0.581 $\chi^2$/NDF: 1191.0/43

Right: -78.013+/-0.889 $\chi^2$/NDF: 956.9/34

In: -78.028+/-0.712 $\chi^2$/NDF:762.9/36

Out: -73.300+/-0.666 $\chi^2$/NDF:1372.8/41

All: -75.506+/-0.486 $\chi^2$/NDF: 2159.2/78




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 116.871+/-0.037 $\chi^2$/NDF:203486.8/22

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 122.103+/-0.039 $\chi^2$/NDF:25737.6/20

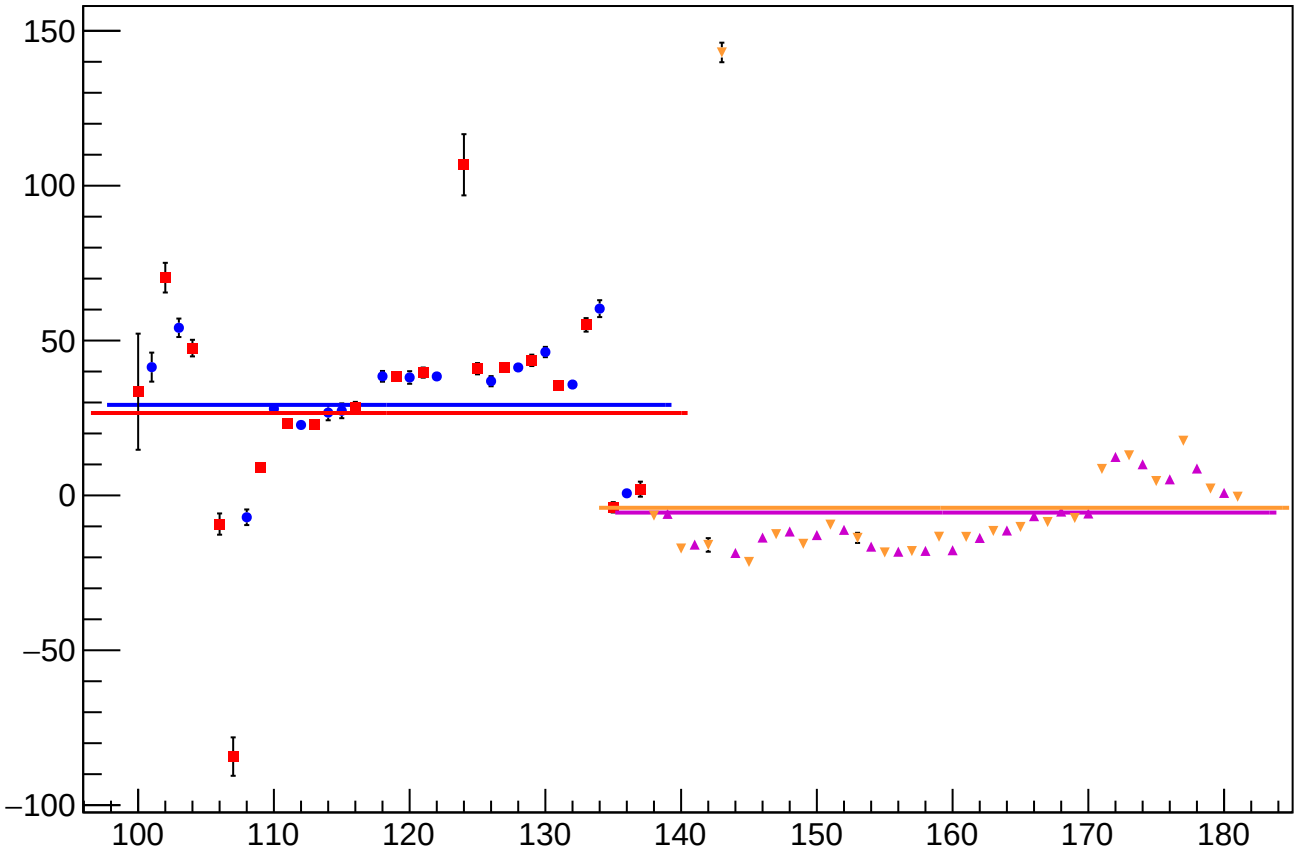
Left: 119.360+/-0.027 $\chi^2$/NDF: 238612.7/43

Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

In: 121.217+/-0.035 $\chi^2$/NDF:123707.8/36

Out: 113.086+/-0.033 $\chi^2$/NDF:416818.9/41

All: 116.905+/-0.024 $\chi^2$/NDF: 569189.2/78




Right In: 29.229+/-0.424 $\chi^2$/NDF: 1342.9/15

Left Out: -3.994+/-0.279 $\chi^2$/NDF:3582.5/22

Right Out: 26.609+/-0.414 $\chi^2$/NDF: 1920.6/18

Left In: -5.542+/-0.287 $\chi^2$/NDF:1195.7/20

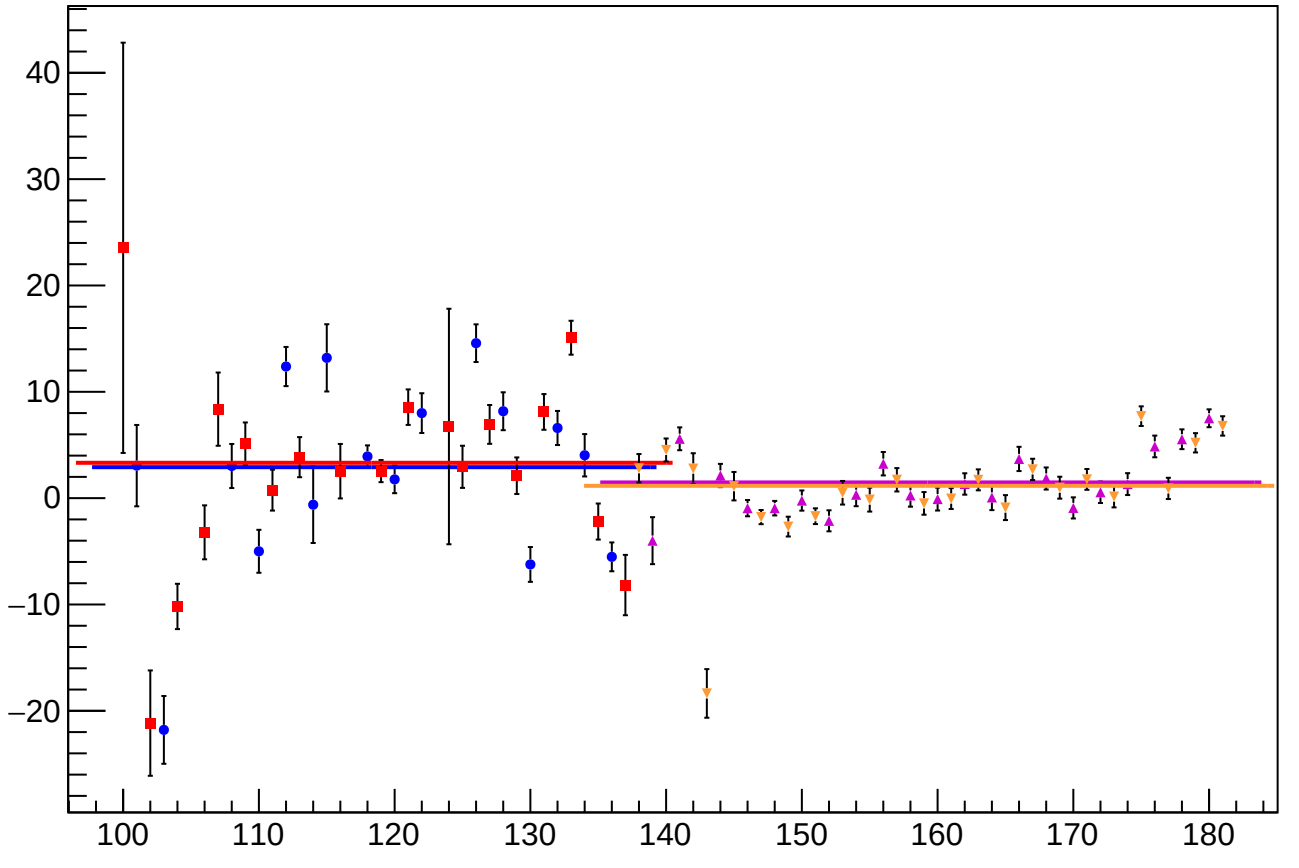
Left: -4.748+/-0.200 $\chi^2$/NDF: 4793.2/43

Right: 27.887+/-0.296 $\chi^2$/NDF: 3283.1/34

In: 5.358+/-0.238 $\chi^2$/NDF:7149.5/36

Out: 5.568+/-0.231 $\chi^2$/NDF:9258.6/41

All: 5.466+/-0.166 $\chi^2$/NDF: 16408.5/78




Right In: 2.912+/-0.442 $\chi^2$/NDF: 250.0/15

Left Out: 1.160+/-0.211 $\chi^2$/NDF:258.1/22

Right Out: 3.326+/-0.454 $\chi^2$/NDF: 181.8/18

Left In: 1.478+/-0.217 $\chi^2$/NDF:161.1/20

Left: 1.314+/-0.151 $\chi^2$/NDF: 420.3/43

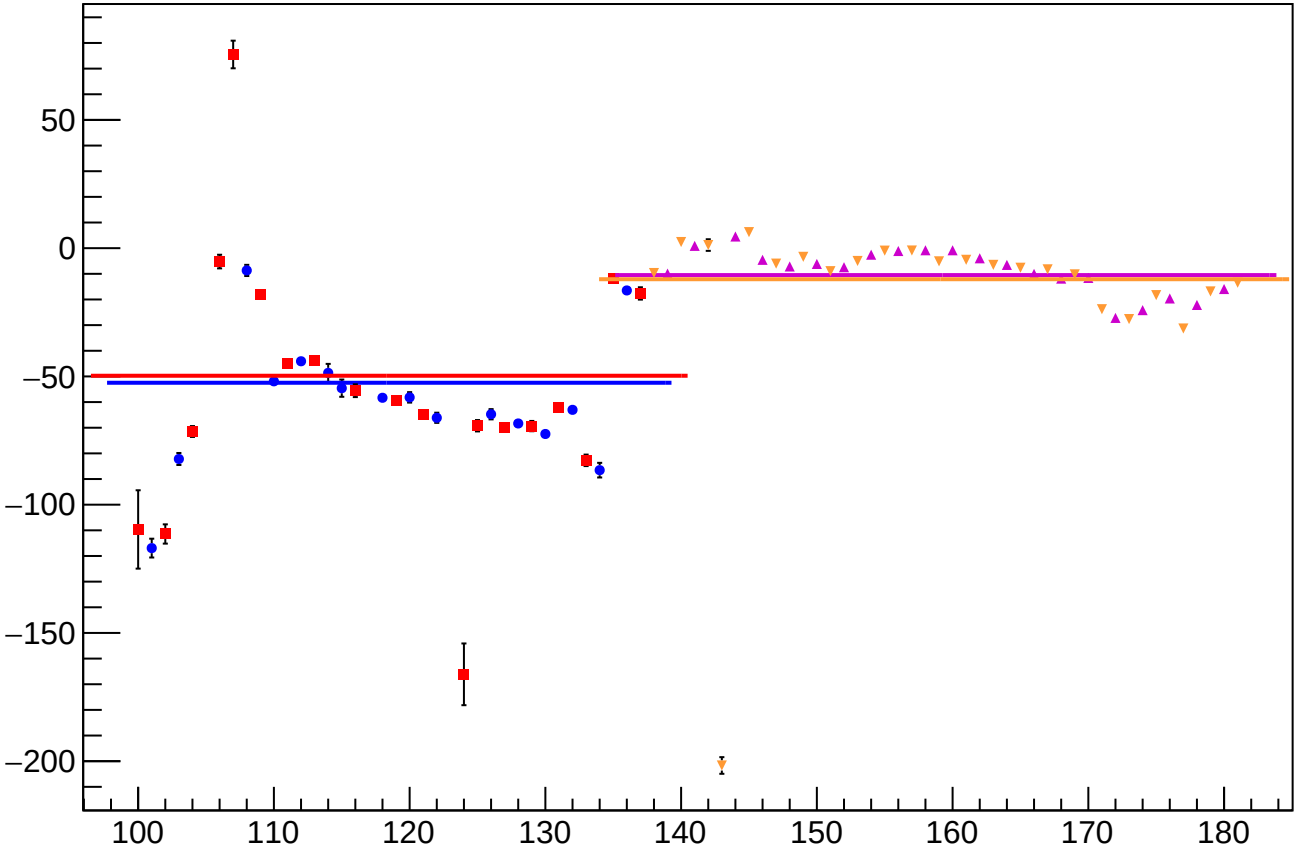
Right: 3.114+/-0.317 $\chi^2$/NDF: 432.2/34

In: 1.756+/-0.195 $\chi^2$/NDF:419.6/36

Out: 1.545+/-0.191 $\chi^2$/NDF:458.6/41

All: 1.648+/-0.136 $\chi^2$/NDF: 878.7/78

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -52.467+/-0.488 $\chi^2$/NDF: 2330.2/15

Left Out: -12.105+/-0.276 $\chi^2$/NDF:4518.3/22

Right Out: -49.734+/-0.494 $\chi^2$/NDF: 3009.7/18

Left In: -10.493+/-0.283 $\chi^2$/NDF:891.4/20

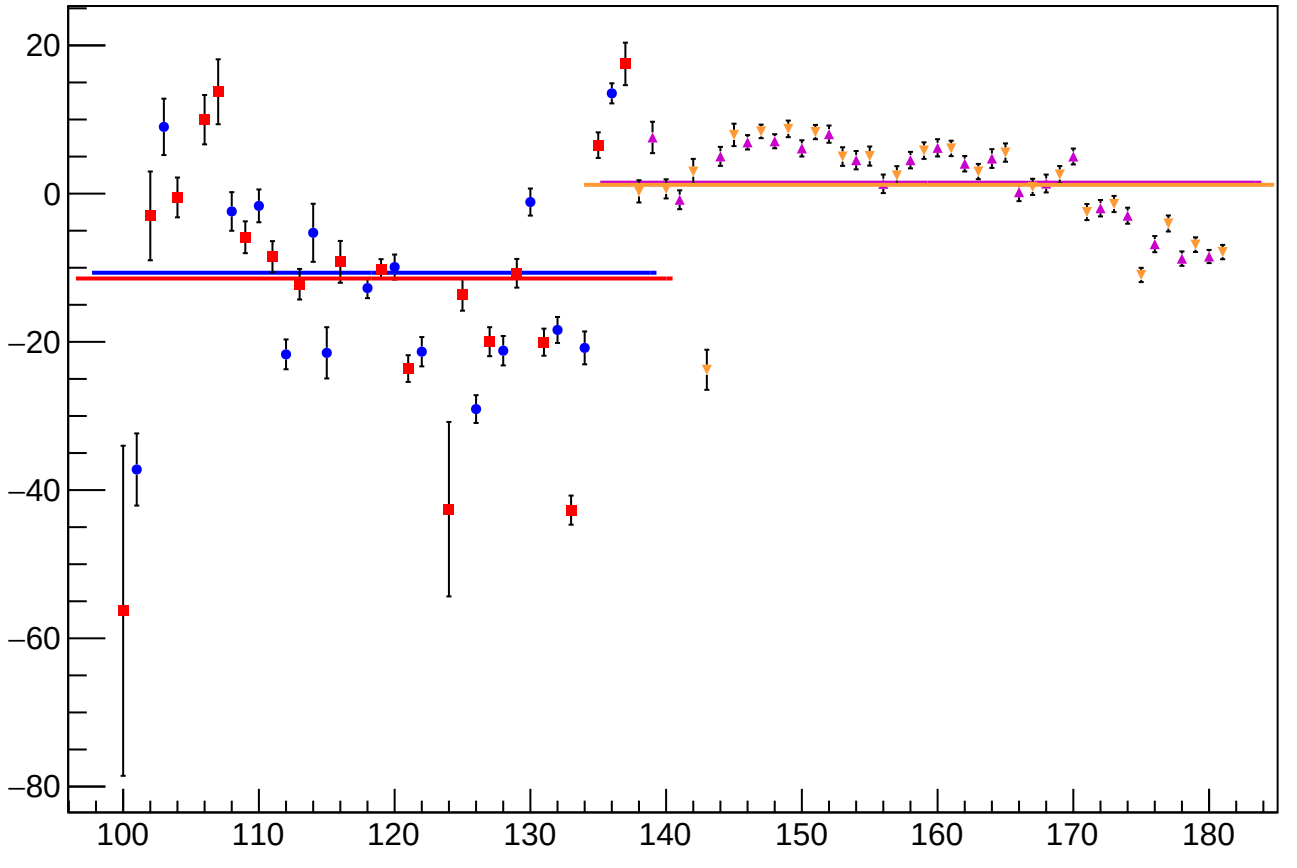
Left: -11.318+/-0.197 $\chi^2$/NDF: 5426.4/43

Right: -51.118+/-0.347 $\chi^2$/NDF: 5355.4/34

In: -21.040+/-0.245 $\chi^2$/NDF:8765.7/36

Out: -21.055+/-0.241 $\chi^2$/NDF:11949.3/41

All: -21.048+/-0.172 $\chi^2$/NDF: 20715.0/78




Right In: -10.675+/-0.505 $\chi^2$/NDF: 666.4/15

Left Out: 1.190+/-0.239 $\chi^2$/NDF:699.4/22

Right Out: -11.450+/-0.516 $\chi^2$/NDF: 665.7/18

Left In: 1.478+/-0.245 $\chi^2$/NDF:510.0/20

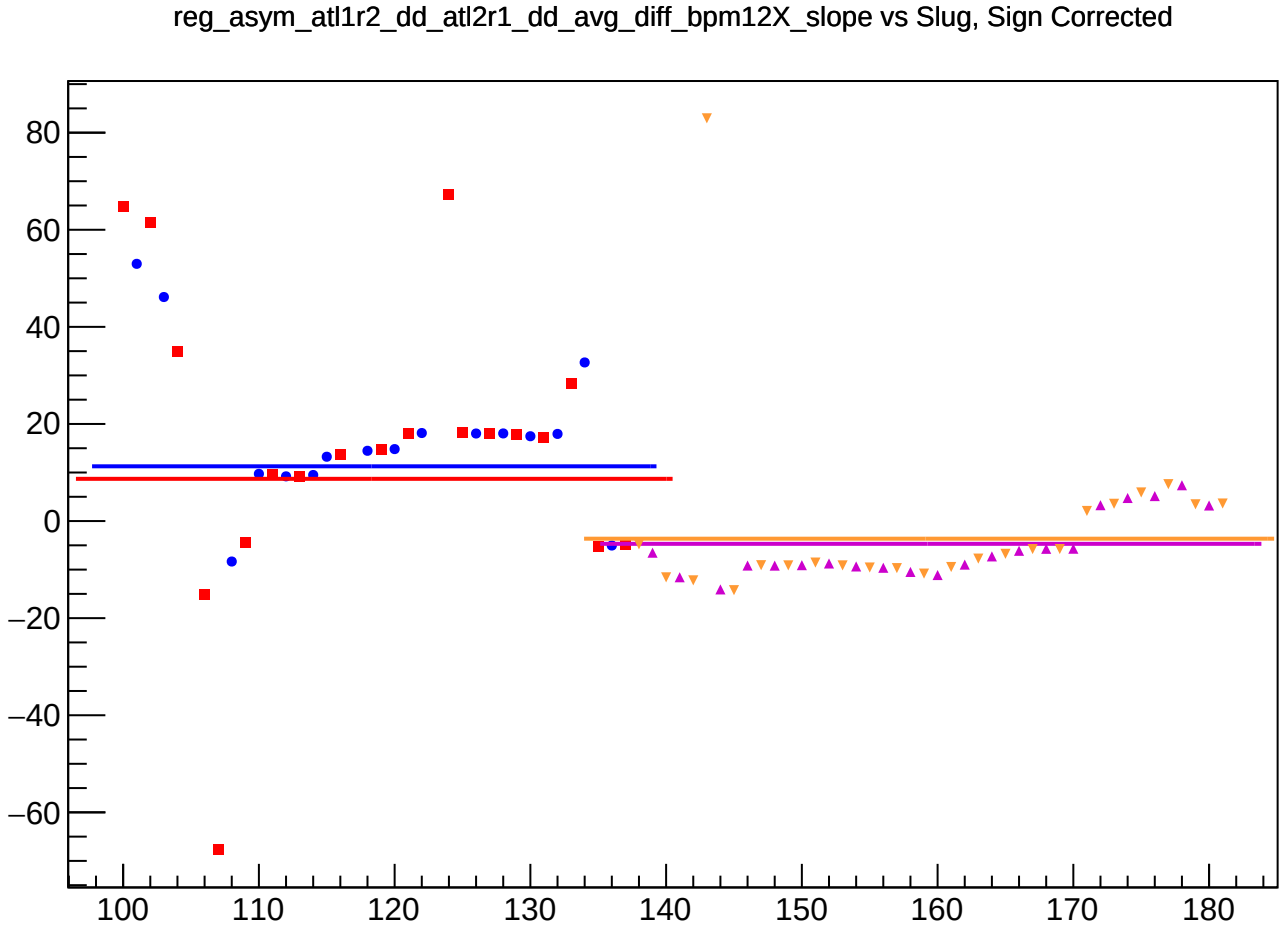
Left: 1.330+/-0.171 $\chi^2$/NDF: 1210.0/43

Right: -11.054+/-0.361 $\chi^2$/NDF: 1333.3/34

In: -0.837+/-0.221 $\chi^2$/NDF:1644.3/36

Out: -1.040+/-0.217 $\chi^2$/NDF:1859.2/41

All: -0.940+/-0.155 $\chi^2$/NDF: 3503.9/78




Right In: 11.277+/-0.030 $\chi^2$/NDF: 349346.9/15

Left Out: -3.633+/-0.011 $\chi^2$/NDF:786501.8/22

Right Out: 8.698+/-0.031 $\chi^2$/NDF: 436156.0/18

Left In: -4.690+/-0.011 $\chi^2$/NDF:346928.7/20

Left: -4.157+/-0.008 $\chi^2$/NDF: 1138242.7/43

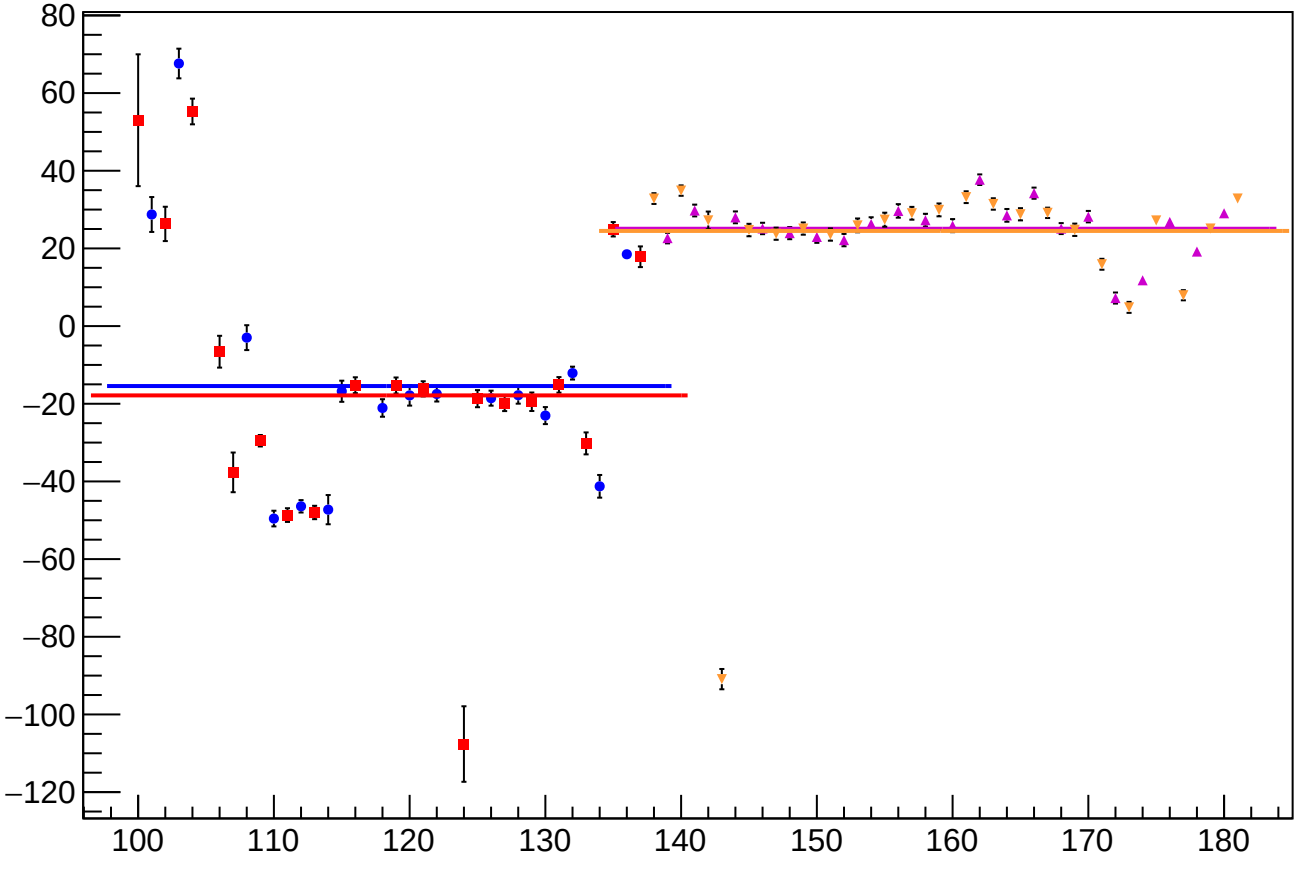
Right: 10.050+/-0.022 $\chi^2$/NDF: 789035.8/34

In: -2.843+/-0.010 $\chi^2$/NDF:948076.2/36

Out: -2.345+/-0.010 $\chi^2$/NDF:1360572.1/41

All: -2.593+/-0.007 $\chi^2$/NDF: 2309849.7/78

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -15.438+/-0.539 $\chi^2$/NDF: 2124.2/15

Left Out: 24.502+/-0.297 $\chi^2$/NDF:2634.5/22

Right Out: -17.848+/-0.530 $\chi^2$/NDF: 2125.2/18

Left In: 25.063+/-0.306 $\chi^2$/NDF:489.2/20

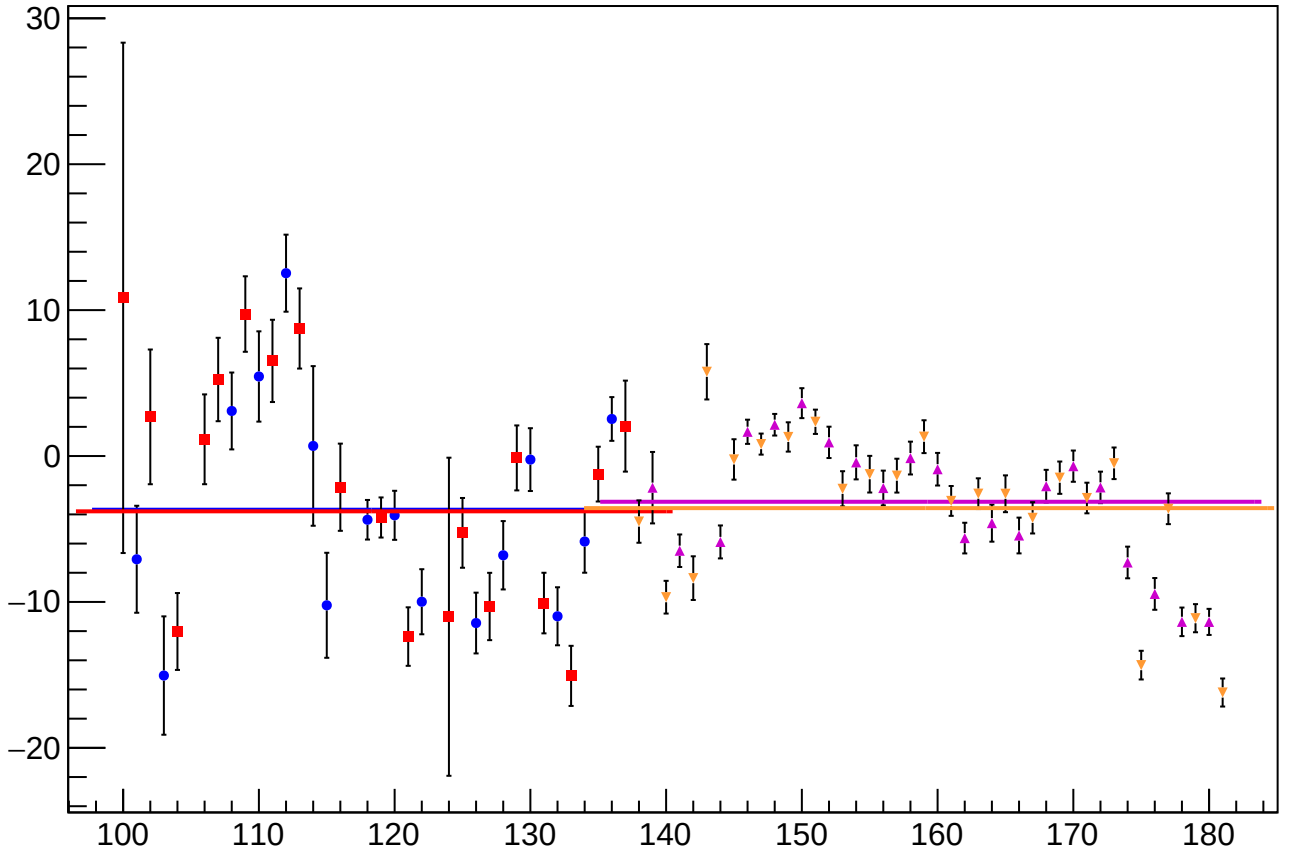
Left: 24.775+/-0.213 $\chi^2$/NDF: 3125.5/43

Right: -16.664+/-0.378 $\chi^2$/NDF: 4259.6/34

In: 15.179+/-0.266 $\chi^2$/NDF:6881.1/36

Out: 14.354+/-0.259 $\chi^2$/NDF:9621.4/41

All: 14.755+/-0.186 $\chi^2$/NDF: 16507.4/78




Right In: -3.679+/-0.552 $\chi^2$/NDF: 124.0/15

Left Out: -3.571+/-0.225 $\chi^2$/NDF:576.8/22

Right Out: -3.790+/-0.564 $\chi^2$/NDF: 161.2/18

Left In: -3.134+/-0.232 $\chi^2$/NDF:395.6/20

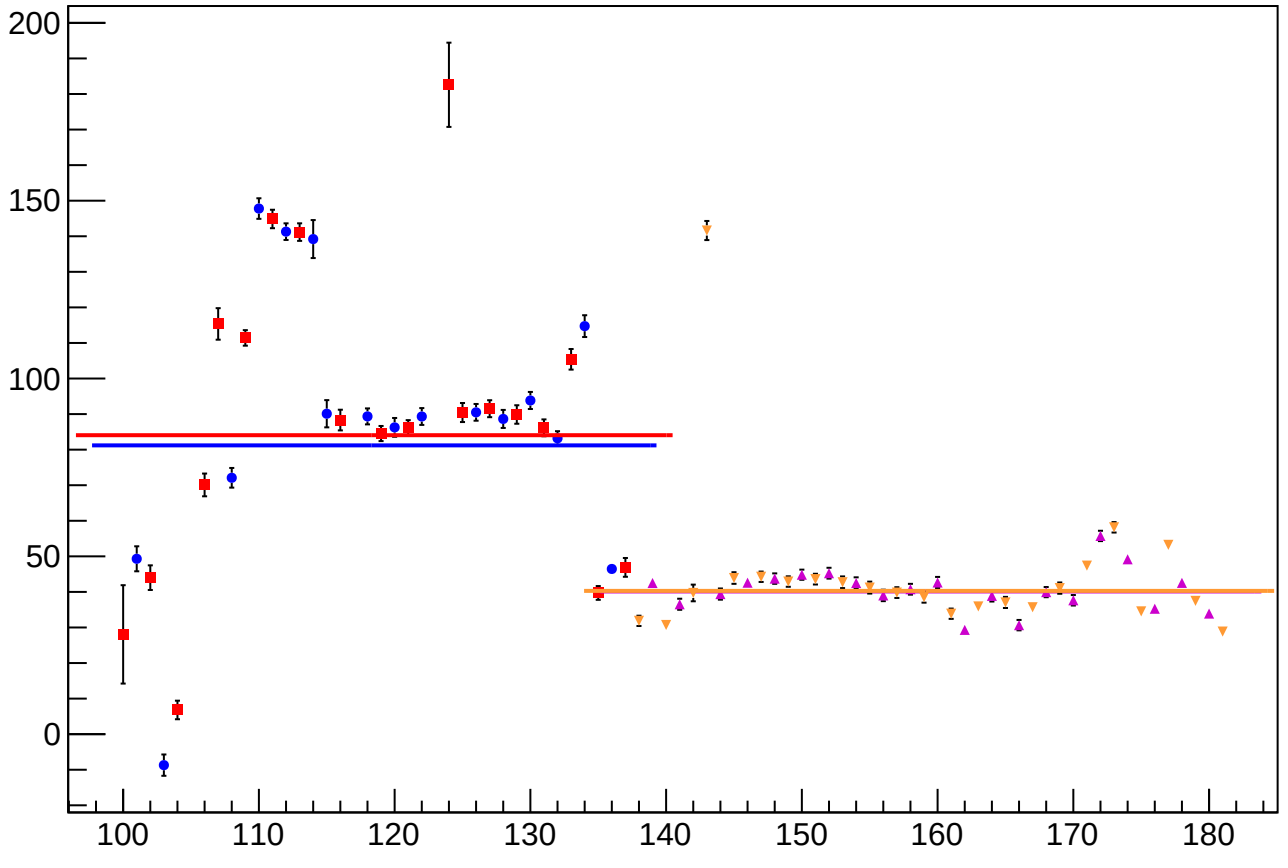
Left: -3.359+/-0.162 $\chi^2$/NDF: 974.2/43

Right: -3.734+/-0.394 $\chi^2$/NDF: 285.2/34

In: -3.216+/-0.214 $\chi^2$/NDF:520.4/36

Out: -3.601+/-0.209 $\chi^2$/NDF:738.1/41

All: -3.413+/-0.149 $\chi^2$/NDF: 1260.2/78




Right In: 81.203+/-0.607 $\chi^2$/NDF: 3230.5/15

Left Out: 40.289+/-0.294 $\chi^2$/NDF:2042.6/22

Right Out: 84.065+/-0.616 $\chi^2$/NDF: 3206.5/18

Left In: 40.124+/-0.302 $\chi^2$/NDF:387.2/20

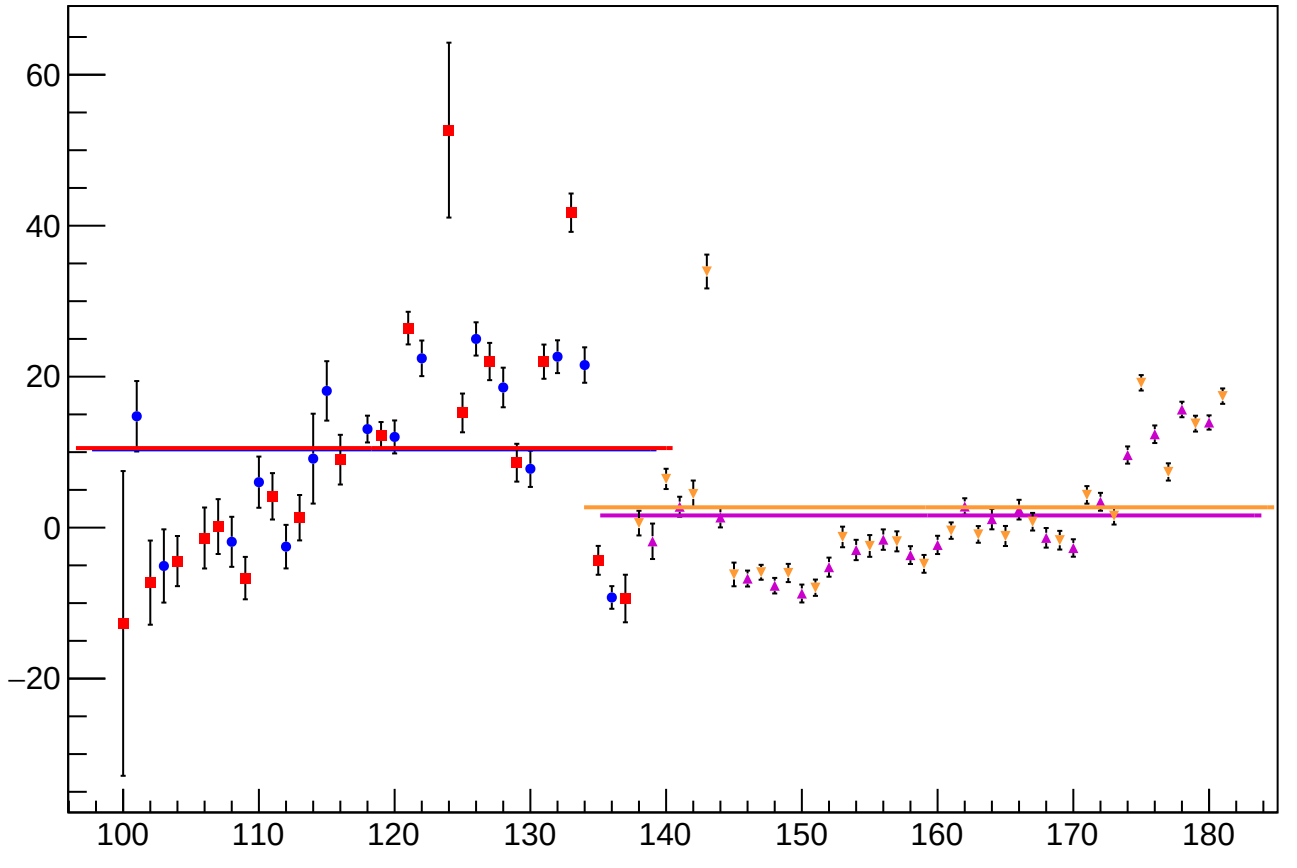
Left: 40.209+/-0.211 $\chi^2$/NDF: 2429.9/43

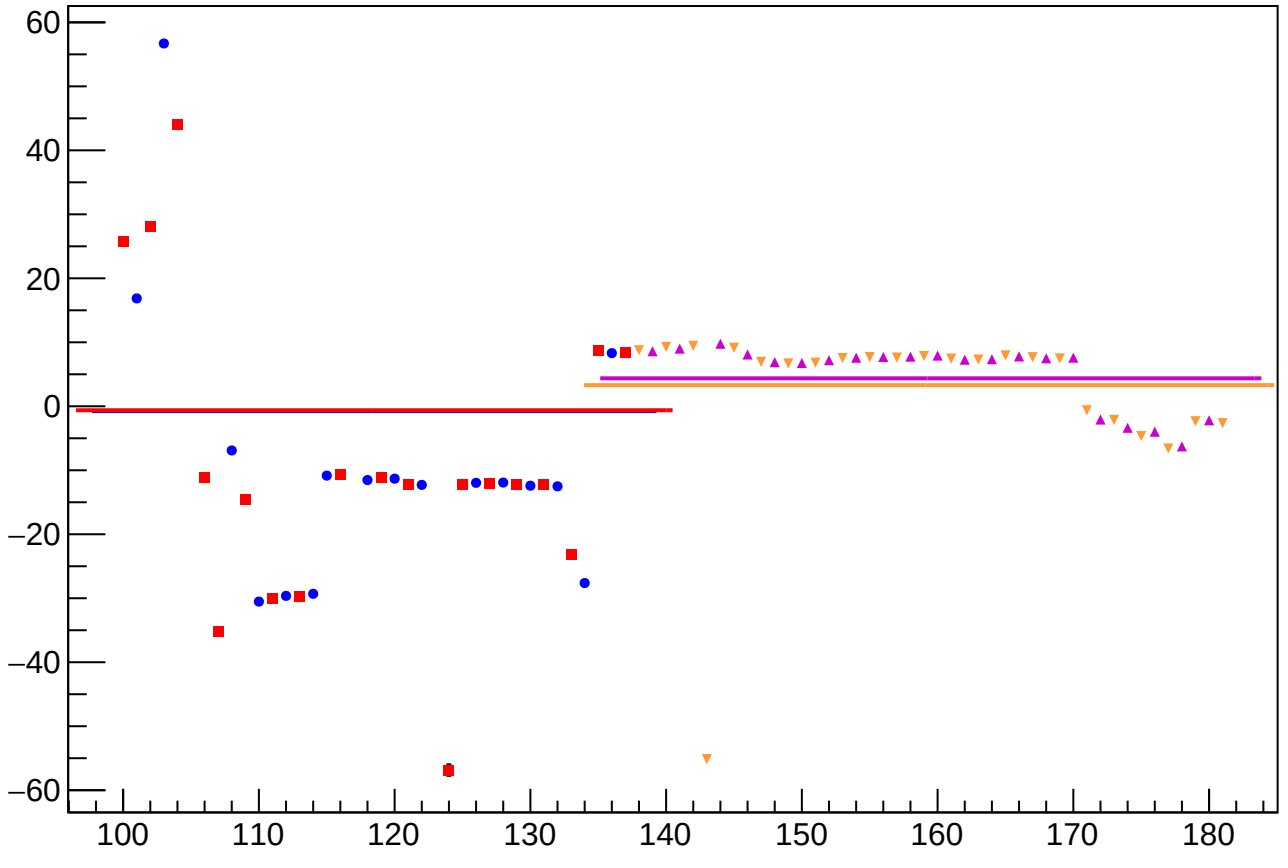
Right: 82.612+/-0.432 $\chi^2$/NDF: 6447.9/34

In: 48.270+/-0.270 $\chi^2$/NDF:7288.7/36

Out: 48.412+/-0.265 $\chi^2$/NDF:9358.6/41

All: 48.342+/-0.189 $\chi^2$/NDF: 16647.5/78


reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
60
40
20
0
−20
100
110
120
130
140
150
160
170
180
Right In: 10.367+/-0.627 χ²/NDF: 359.8/15
Left Out: 2.692+/-0.255 χ²/NDF:1175.6/22
Right Out: 10.539+/-0.640 χ²/NDF: 470.7/18
Left In: 1.614+/-0.262 χ²/NDF:814.6/20
Left: 2.167+/-0.183 χ²/NDF: 1998.9/43
Right: 10.451+/-0.448 χ²/NDF: 830.5/34
In: 2.914+/-0.241 χ²/NDF:1340.6/36
Out: 3.765+/-0.237 χ²/NDF:1776.0/41
All: 3.348+/-0.169 χ²/NDF: 3122.9/78




Right In: -0.745+/-0.036 $\chi^2$/NDF: 367993.9/15

Left Out: 3.304+/-0.011 $\chi^2$/NDF:494519.4/22

Right Out: -0.618+/-0.037 $\chi^2$/NDF: 316492.6/18

Left In: 4.370+/-0.012 $\chi^2$/NDF:205712.3/20

Left: 3.831+/-0.008 $\chi^2$/NDF: 704514.7/43

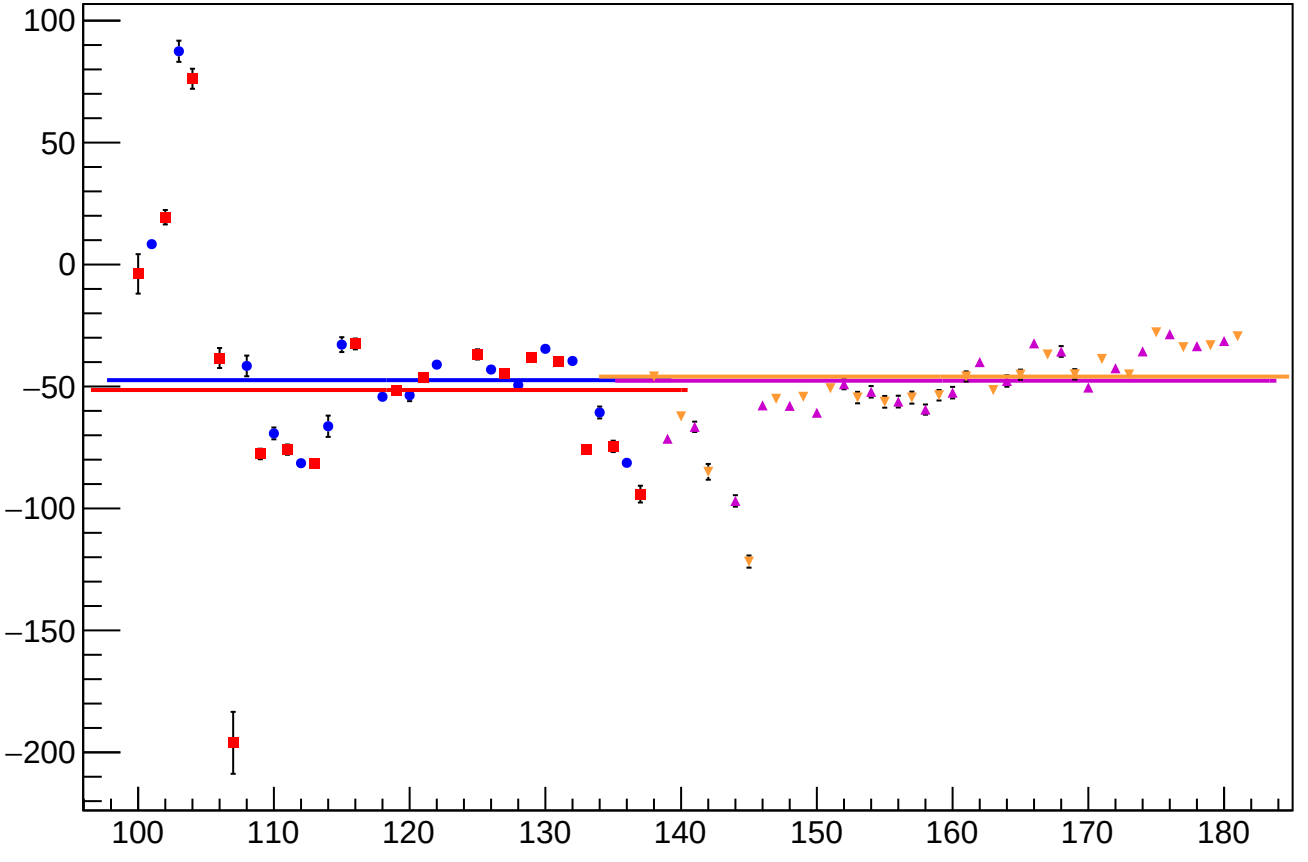
Right: -0.684+/-0.026 $\chi^2$/NDF: 684492.5/34

In: 3.887+/-0.011 $\chi^2$/NDF:592109.9/36

Out: 2.966+/-0.011 $\chi^2$/NDF:821096.2/41

All: 3.424+/-0.008 $\chi^2$/NDF: 1416722.8/78

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -47.398+/-0.535 $\chi^2$/NDF: 2769.0/15

Left Out: -45.935+/-0.405 $\chi^2$/NDF:1763.4/21

Right Out: -51.442+/-0.545 $\chi^2$/NDF: 2872.7/17

Left In: -47.628+/-0.413 $\chi^2$/NDF:1411.0/20

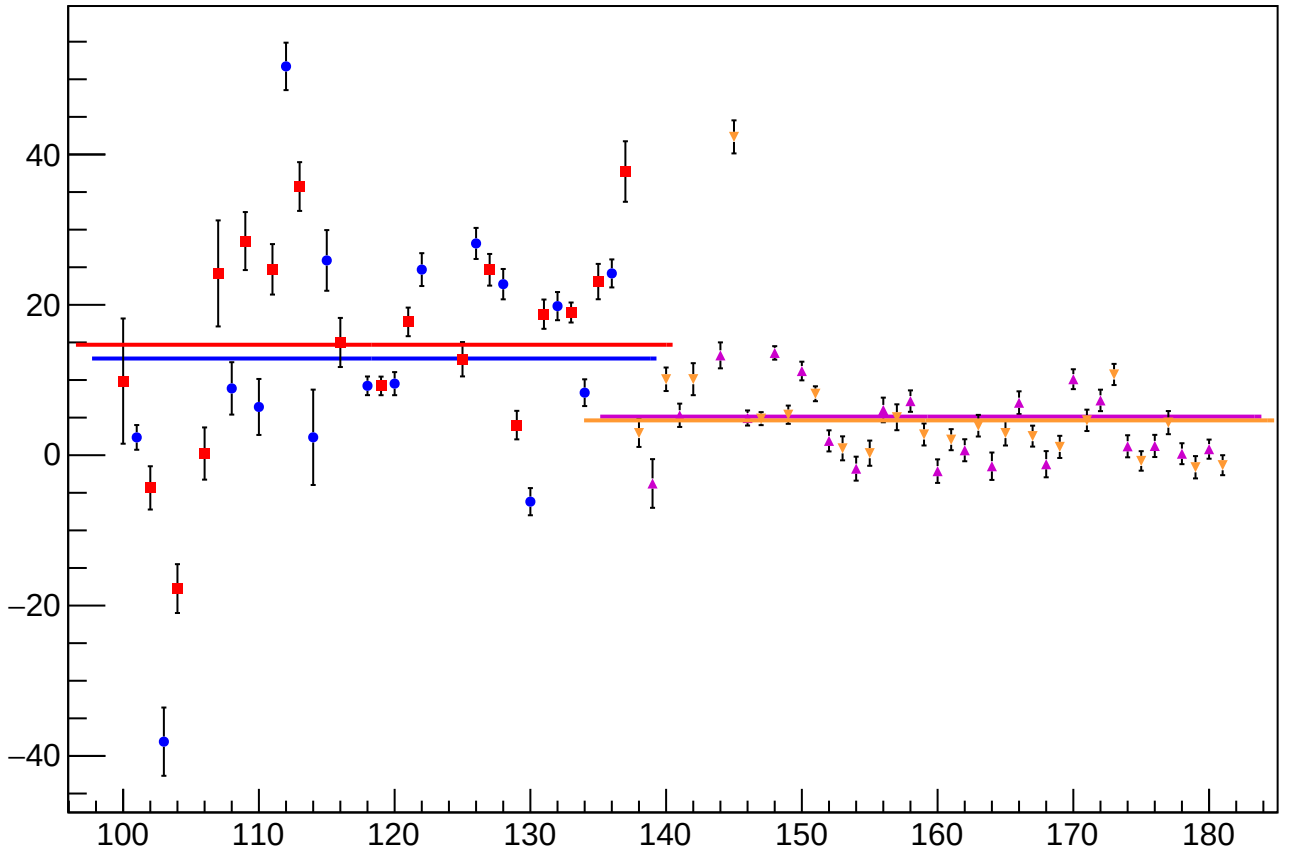
Left: -46.764+/-0.289 $\chi^2$/NDF: 3183.0/42

Right: -49.383+/-0.382 $\chi^2$/NDF: 5669.8/33

In: -47.542+/-0.327 $\chi^2$/NDF:4180.2/36

Out: -47.891+/-0.325 $\chi^2$/NDF:4701.9/39

All: -47.718+/-0.231 $\chi^2$/NDF: 8882.7/76




Right In: 12.860+/-0.519 $\chi^2$/NDF: 625.5/15

Left Out: 4.631+/-0.300 $\chi^2$/NDF:427.3/21

Right Out: 14.691+/-0.544 $\chi^2$/NDF: 364.1/17

Left In: 5.132+/-0.308 $\chi^2$/NDF:283.0/20

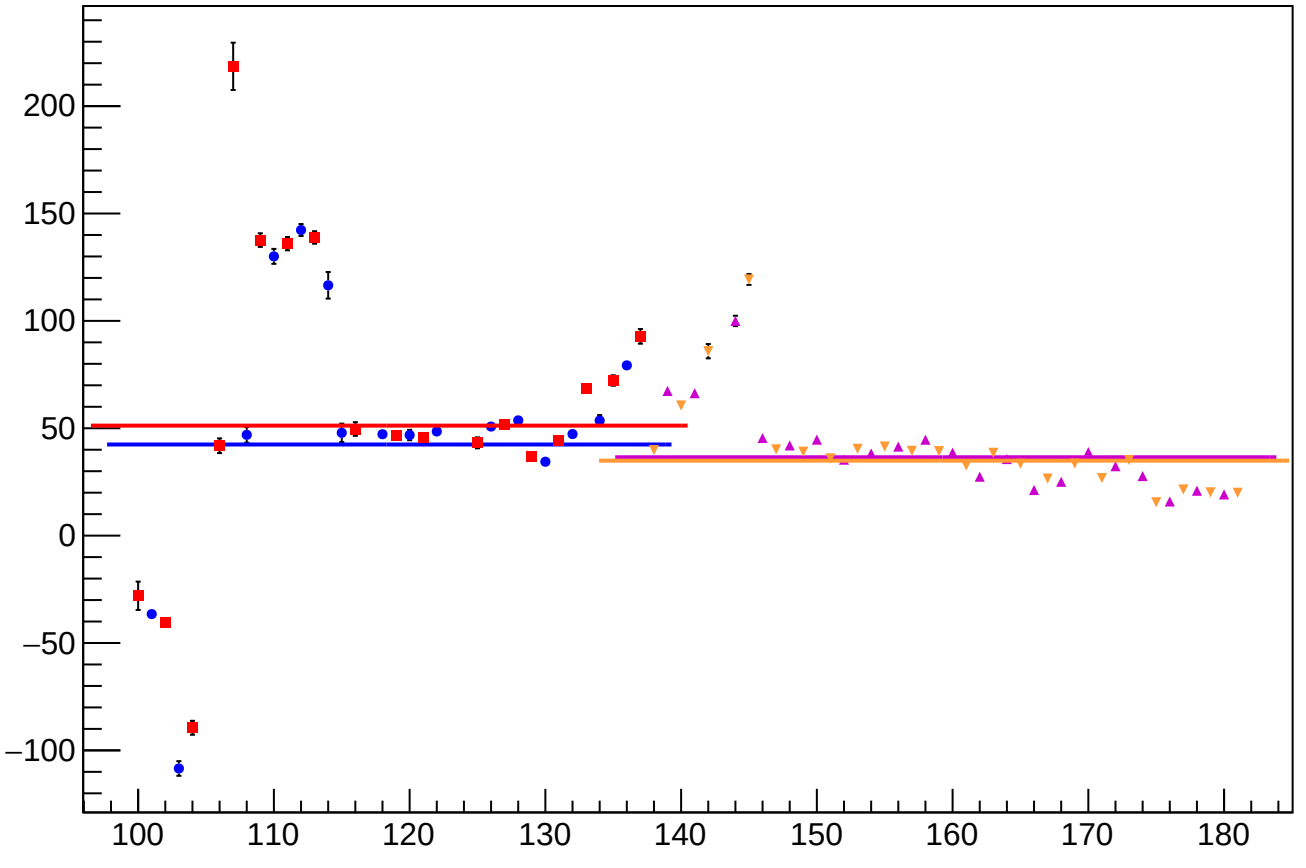
Left: 4.875+/-0.215 $\chi^2$/NDF: 711.7/42

Right: 13.731+/-0.375 $\chi^2$/NDF: 995.5/33

In: 7.144+/-0.265 $\chi^2$/NDF:1072.7/36

Out: 6.979+/-0.263 $\chi^2$/NDF:1053.3/39

All: 7.061+/-0.187 $\chi^2$/NDF: 2126.2/76




Right In: 42.437+/-0.584 $\chi^2$/NDF: 7168.9/15

Left Out: 34.906+/-0.399 $\chi^2$/NDF:2101.3/21

Right Out: 51.226+/-0.615 $\chi^2$/NDF: 6611.3/17

Left In: 36.491+/-0.407 $\chi^2$/NDF:1822.7/20

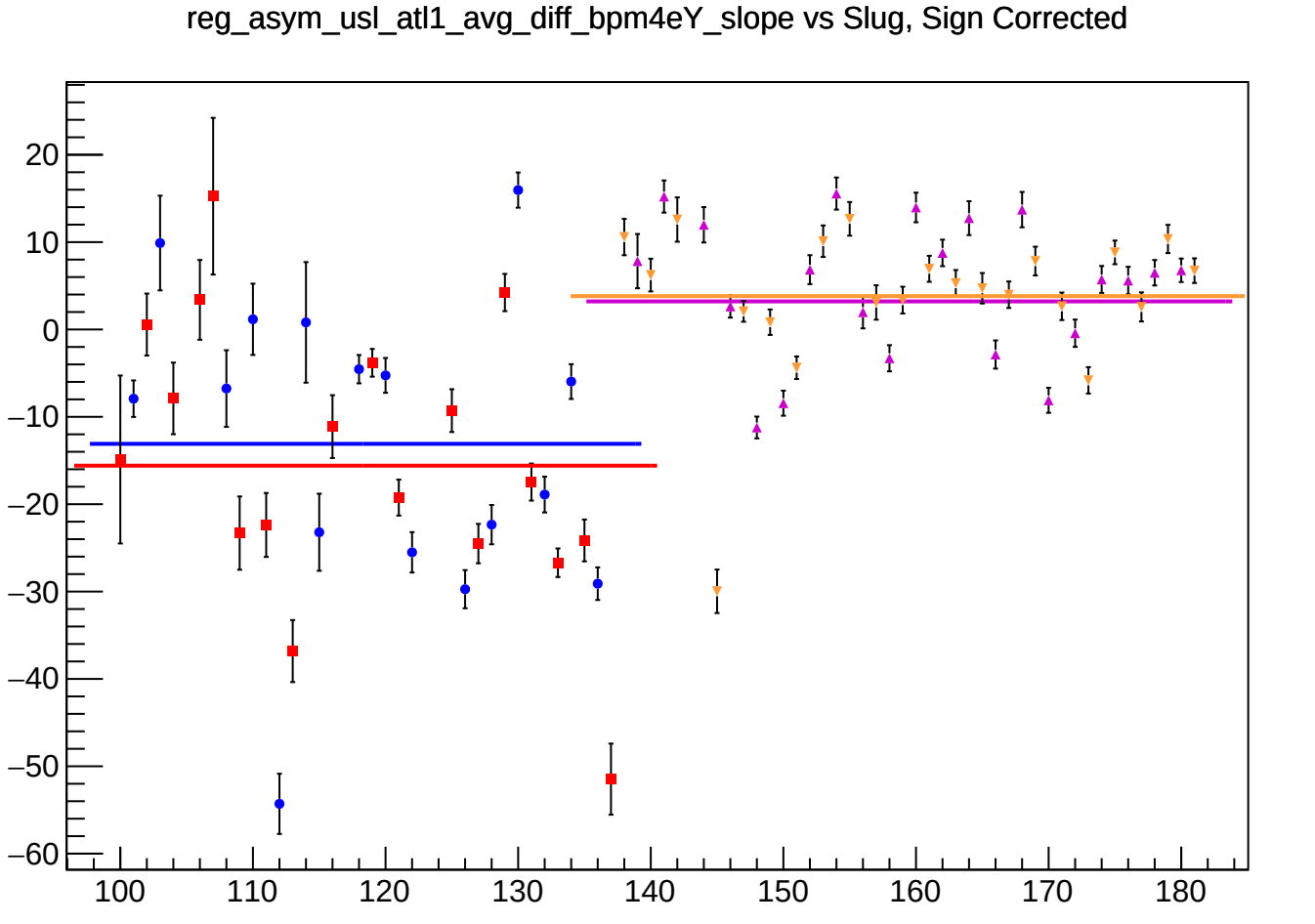
Left: 35.684+/-0.285 $\chi^2$/NDF: 3931.7/42

Right: 46.608+/-0.424 $\chi^2$/NDF: 13887.6/33

In: 38.432+/-0.334 $\chi^2$/NDF:9061.3/36

Out: 39.751+/-0.335 $\chi^2$/NDF:9208.0/39

All: 39.089+/-0.236 $\chi^2$/NDF: 18277.1/76




Right In: -13.090+/-0.600 $\chi^2$/NDF: 639.9/15

Left Out: 3.820+/-0.342 $\chi^2$/NDF:376.3/21

Right Out: -15.589+/-0.627 $\chi^2$/NDF: 401.8/17

Left In: 3.214+/-0.349 $\chi^2$/NDF:536.9/20

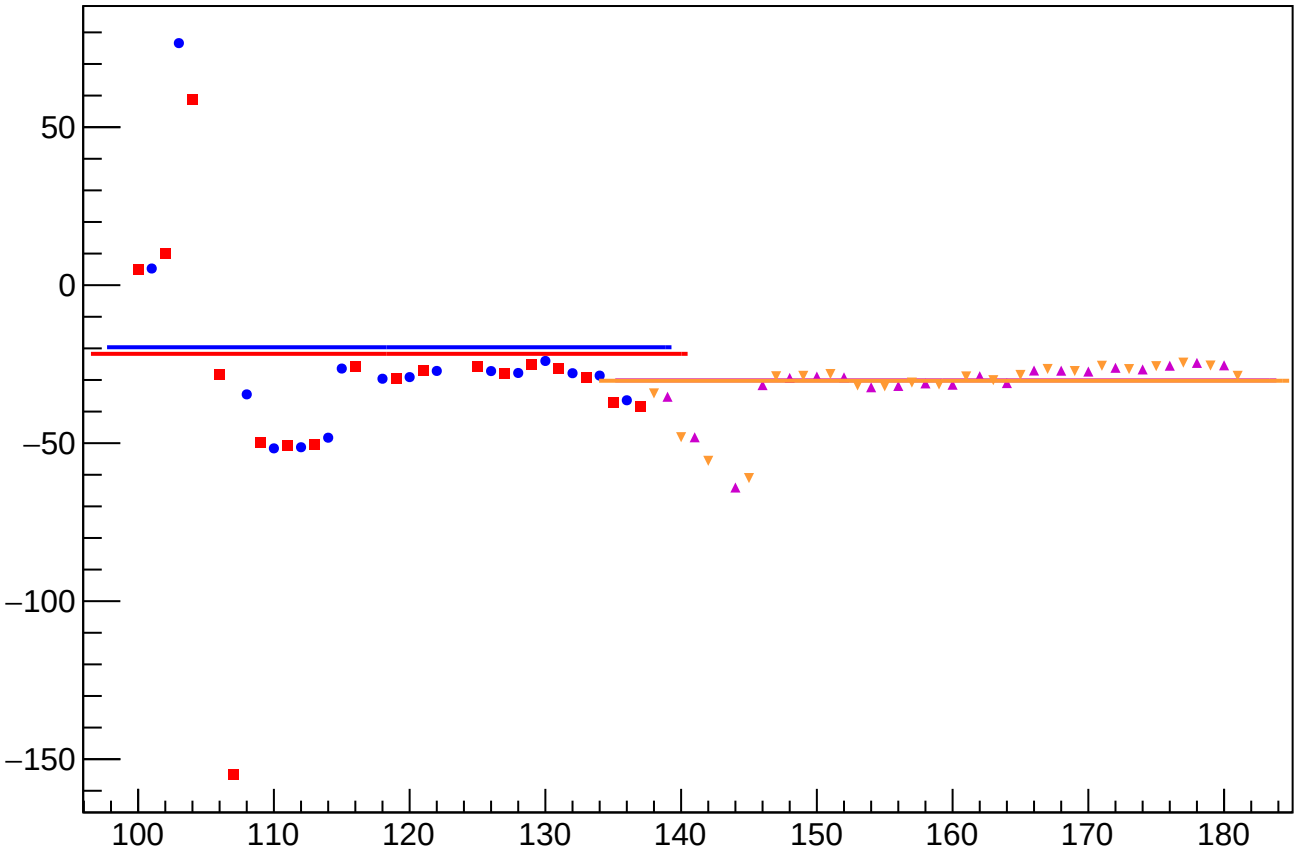
Left: 3.523+/-0.245 $\chi^2$/NDF: 914.7/42

Right: -14.285+/-0.433 $\chi^2$/NDF: 1050.0/33

In: -0.917+/-0.302 $\chi^2$/NDF:1728.7/36

Out: -0.640+/-0.300 $\chi^2$/NDF:1516.6/39

All: -0.777+/-0.213 $\chi^2$/NDF: 3245.6/76




Right In: -19.644+/-0.036 $\chi^2$/NDF: 646925.7/15

Left Out: -30.244+/-0.016 $\chi^2$/NDF:211597.2/21

Right Out: -21.730+/-0.039 $\chi^2$/NDF: 546659.9/17

Left In: -30.127+/-0.016 $\chi^2$/NDF:177714.7/20

Left: -30.185+/-0.011 $\chi^2$/NDF: 389340.3/42

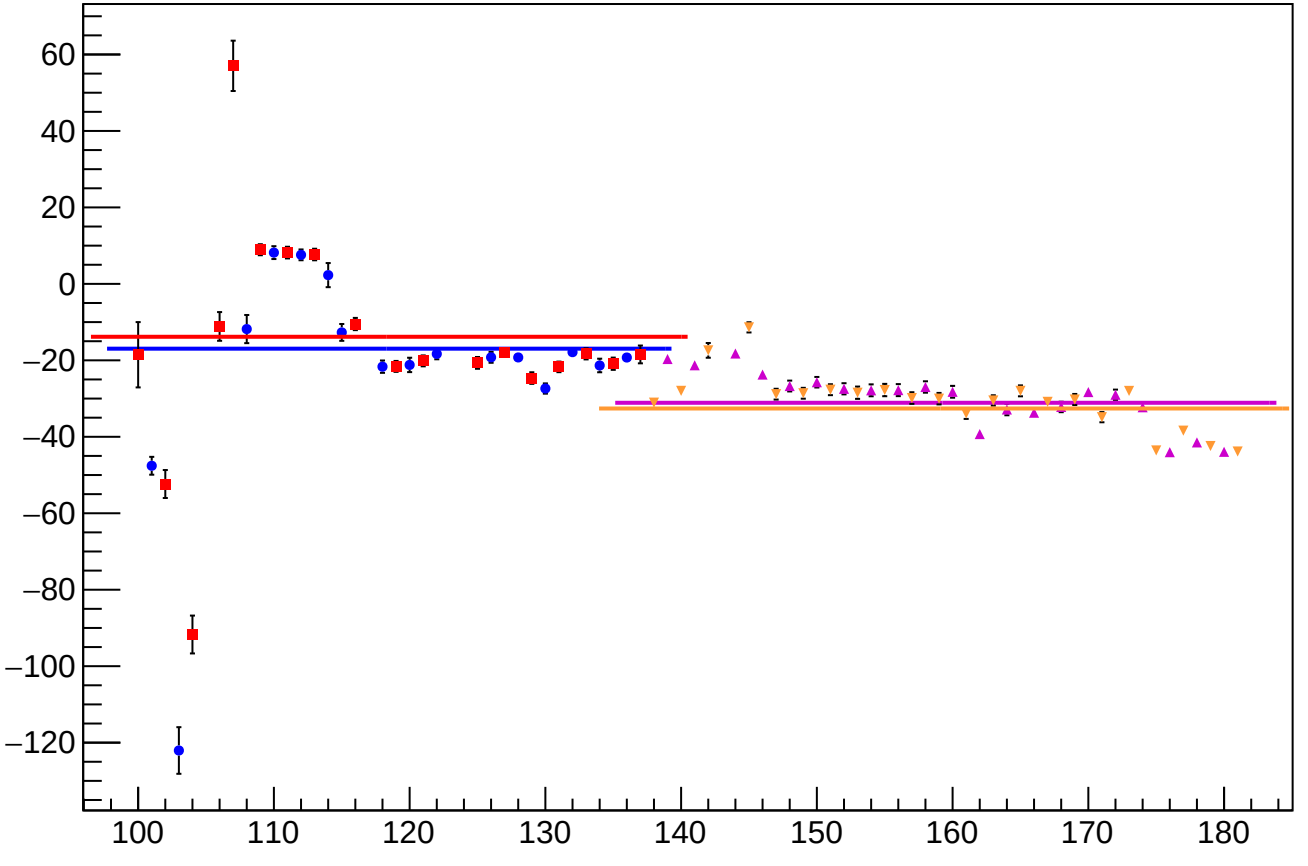
Right: -20.610+/-0.026 $\chi^2$/NDF: 1195130.0/33

In: -28.477+/-0.014 $\chi^2$/NDF:895645.6/36

Out: -29.067+/-0.014 $\chi^2$/NDF:799565.6/39

All: -28.769+/-0.010 $\chi^2$/NDF: 1696052.0/76

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -16.949+/-0.404 $\chi^2$/NDF: 1128.2/15

Left Out: -32.599+/-0.276 $\chi^2$/NDF:819.9/21

Right Out: -13.837+/-0.409 $\chi^2$/NDF: 1333.2/17

Left In: -31.103+/-0.283 $\chi^2$/NDF:797.8/20

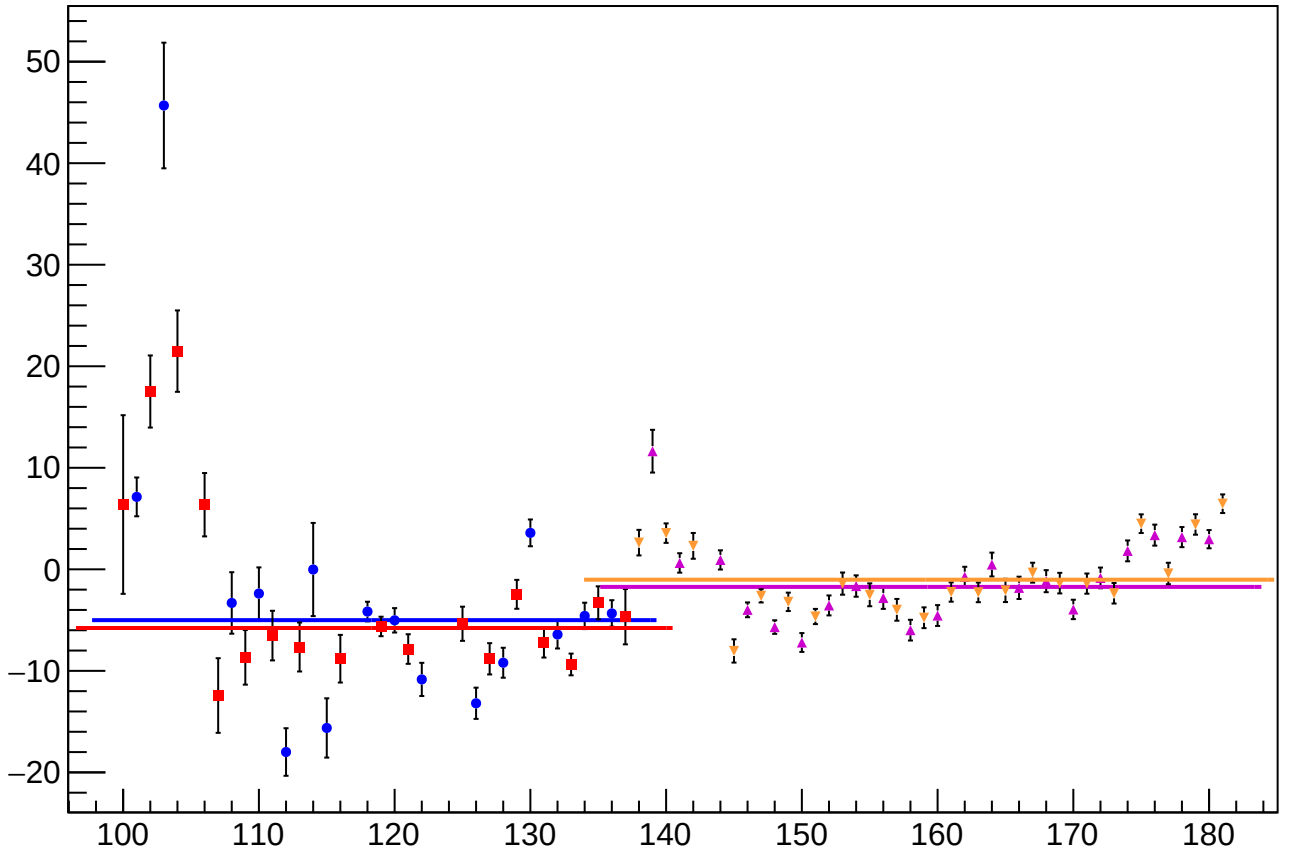
Left: -31.868+/-0.198 $\chi^2$/NDF: 1632.0/42

Right: -15.414+/-0.287 $\chi^2$/NDF: 2490.7/33

In: -26.443+/-0.232 $\chi^2$/NDF:2749.8/36

Out: -26.722+/-0.229 $\chi^2$/NDF:3596.8/39

All: -26.584+/-0.163 $\chi^2$/NDF: 6347.4/76




Right In: -5.006+/-0.401 $\chi^2$/NDF: 247.8/15

Left Out: -1.022+/-0.208 $\chi^2$/NDF:272.4/21

Right Out: -5.779+/-0.419 $\chi^2$/NDF: 139.3/17

Left In: -1.731+/-0.213 $\chi^2$/NDF:262.3/20

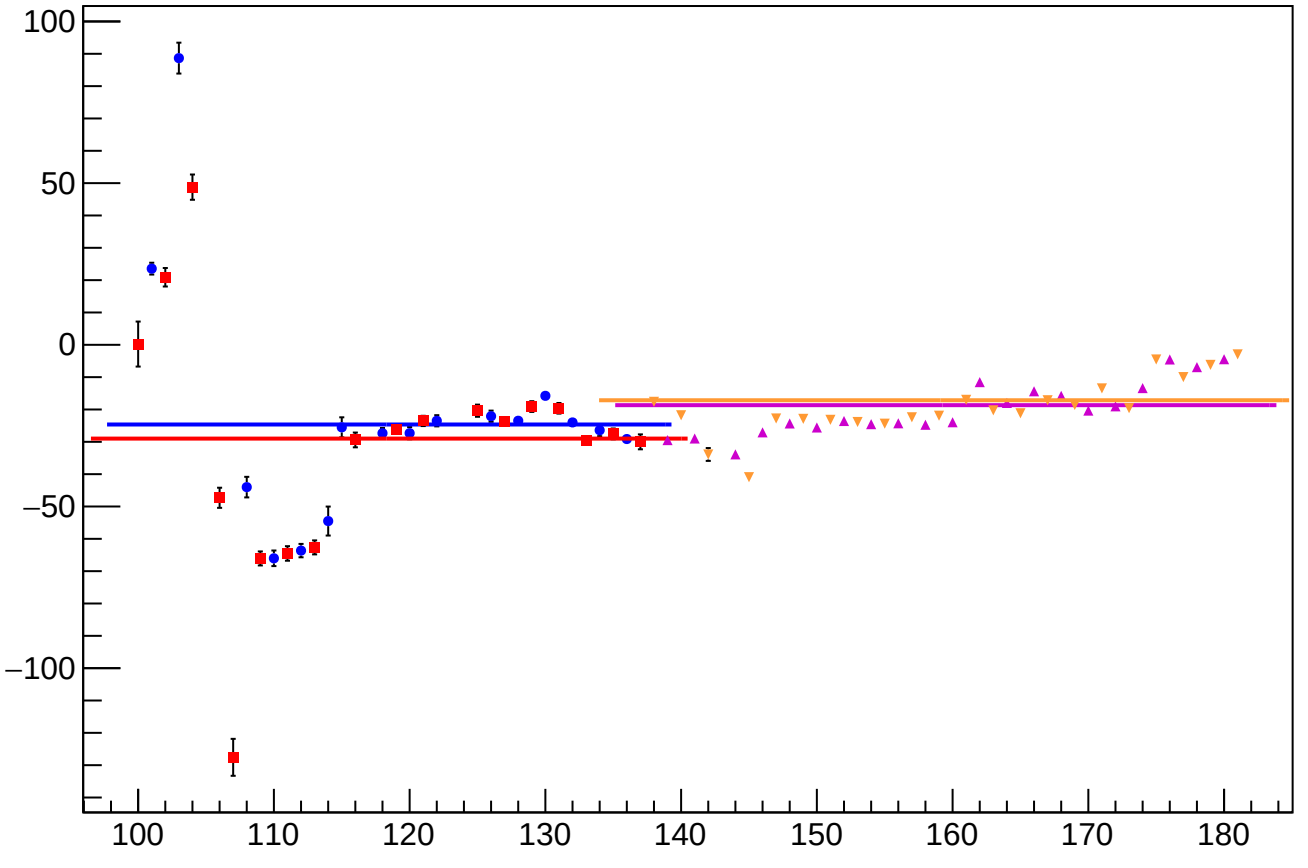
Left: -1.368+/-0.149 $\chi^2$/NDF: 540.3/42

Right: -5.375+/-0.290 $\chi^2$/NDF: 388.9/33

In: -2.450+/-0.188 $\chi^2$/NDF:562.0/36

Out: -1.961+/-0.186 $\chi^2$/NDF:515.0/39

All: -2.204+/-0.132 $\chi^2$/NDF: 1080.4/76




Right In: -24.641+/-0.455 $\chi^2$/NDF: 2051.8/15

Left Out: -17.144+/-0.273 $\chi^2$/NDF:1110.5/21

Right Out: -29.002+/-0.475 $\chi^2$/NDF: 1952.3/17

Left In: -18.664+/-0.279 $\chi^2$/NDF:1016.3/20

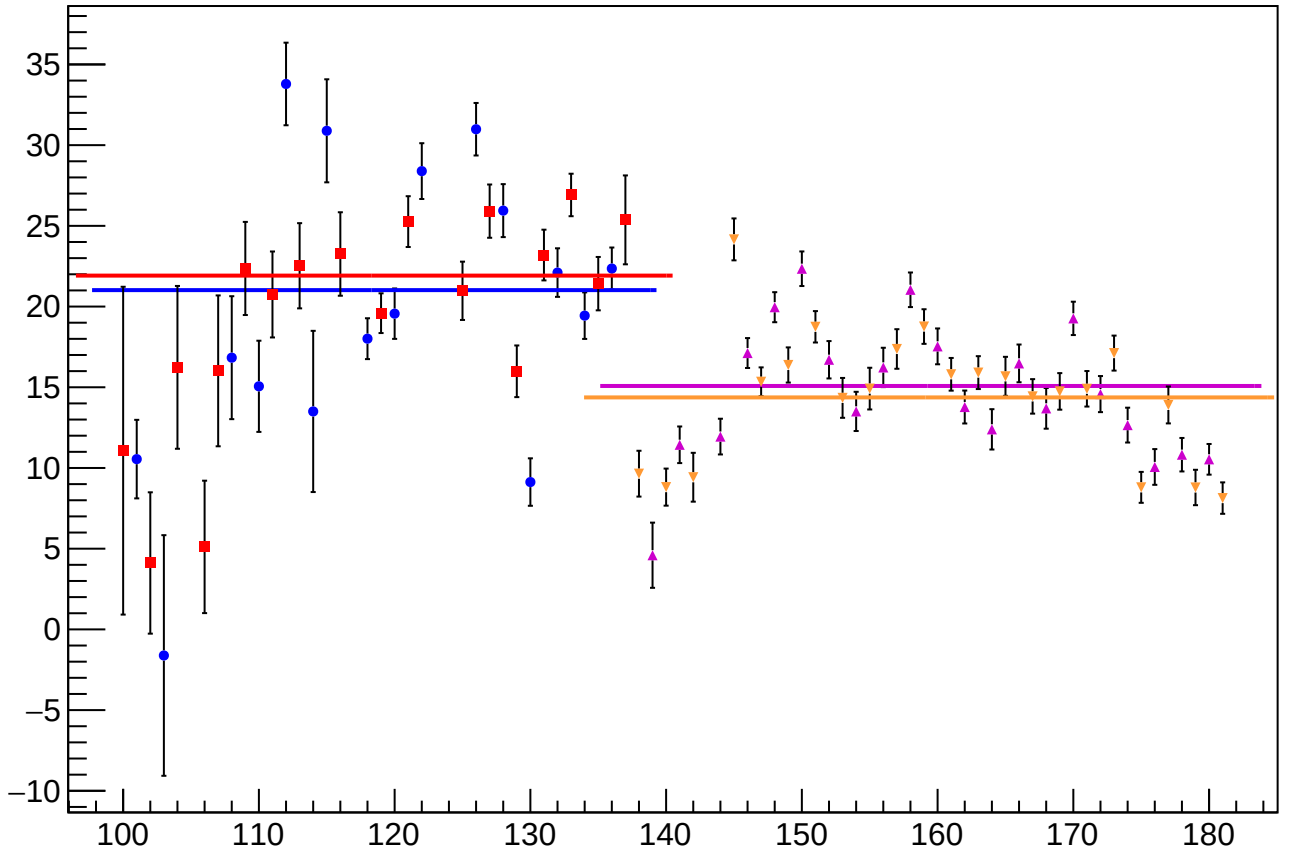
Left: -17.889+/-0.195 $\chi^2$/NDF: 2141.9/42

Right: -26.727+/-0.329 $\chi^2$/NDF: 4048.0/33

In: -20.297+/-0.238 $\chi^2$/NDF:3193.6/36

Out: -20.092+/-0.237 $\chi^2$/NDF:3530.7/39

All: -20.194+/-0.168 $\chi^2$/NDF: 6724.7/76




Right In: 21.019+/-0.458 $\chi^2$/NDF: 209.6/15

Left Out: 14.372+/-0.236 $\chi^2$/NDF:262.9/21

Right Out: 21.918+/-0.478 $\chi^2$/NDF: 82.5/17

Left In: 15.080+/-0.241 $\chi^2$/NDF:254.8/20

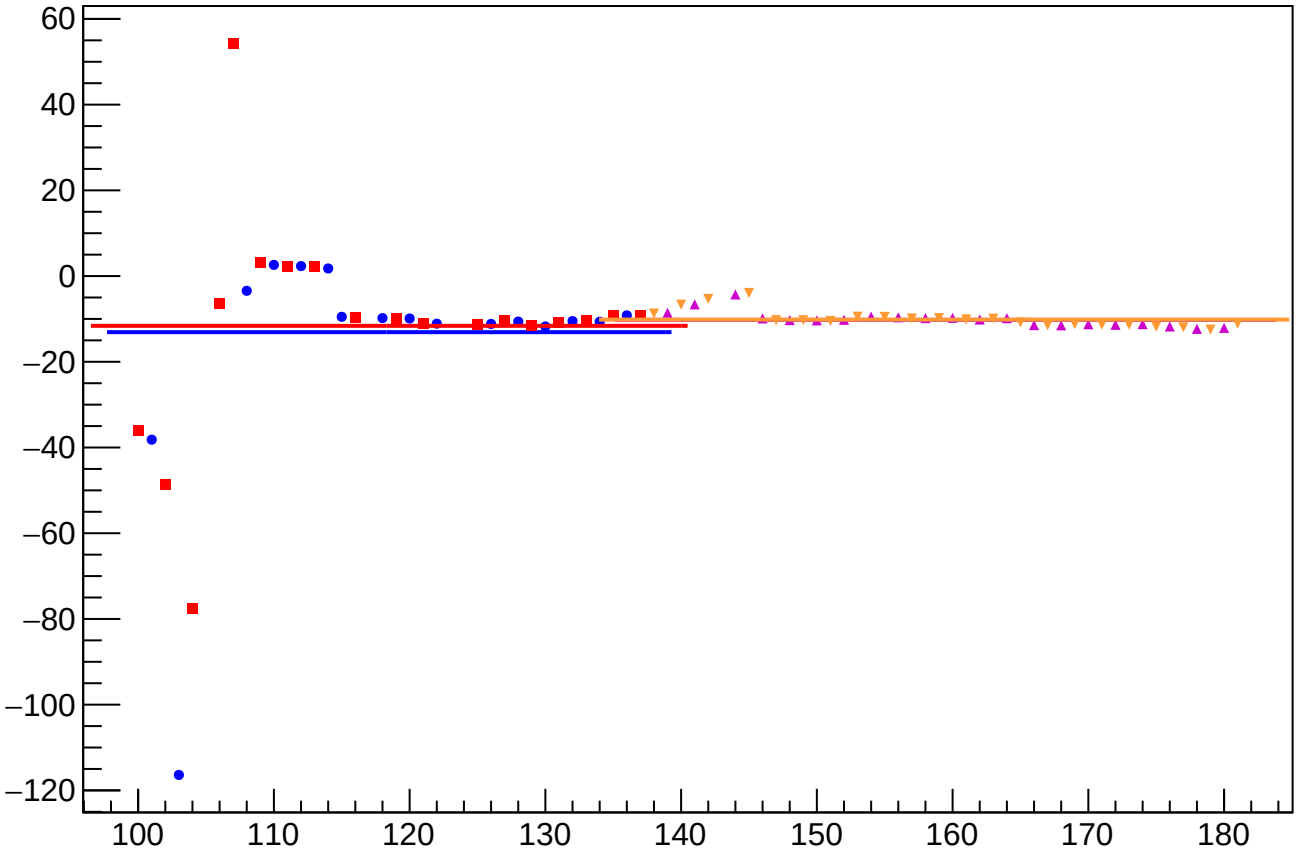
Left: 14.719+/-0.169 $\chi^2$/NDF: 522.2/42

Right: 21.449+/-0.331 $\chi^2$/NDF: 294.0/33

In: 16.367+/-0.213 $\chi^2$/NDF:596.0/36

Out: 15.850+/-0.212 $\chi^2$/NDF:545.5/39

All: 16.107+/-0.150 $\chi^2$/NDF: 1144.5/76




Right In: -13.086+/-0.028 $\chi^2$/NDF: 344941.2/15

Left Out: -10.159+/-0.011 $\chi^2$/NDF:30970.8/21

Right Out: -11.610+/-0.031 $\chi^2$/NDF: 314183.9/17

Left In: -10.226+/-0.011 $\chi^2$/NDF:24305.0/20

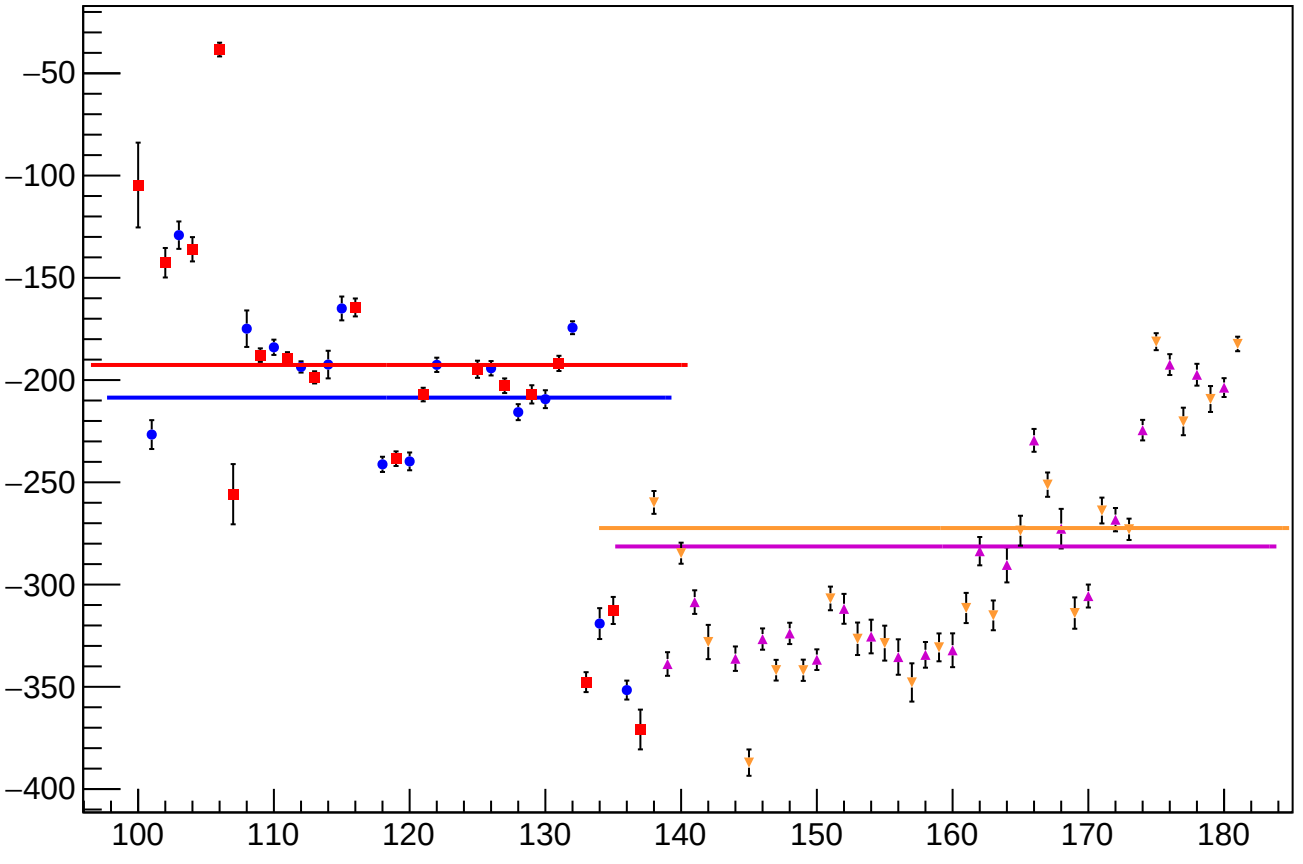
Left: -10.193+/-0.008 $\chi^2$/NDF: 55295.6/42

Right: -12.409+/-0.021 $\chi^2$/NDF: 660362.1/33

In: -10.579+/-0.010 $\chi^2$/NDF:378127.3/36

Out: -10.313+/-0.010 $\chi^2$/NDF:347126.6/39

All: -10.447+/-0.007 $\chi^2$/NDF: 725608.5/76




Right In: -208.586+/-1.067 $\chi^2$/NDF: 1751.1/15

Left Out: -272.364+/-1.266 $\chi^2$/NDF:2395.1/21

Right Out: -192.617+/-0.999 $\chi^2$/NDF: 4207.1/17

Left In: -281.369+/-1.304 $\chi^2$/NDF:1738.8/20

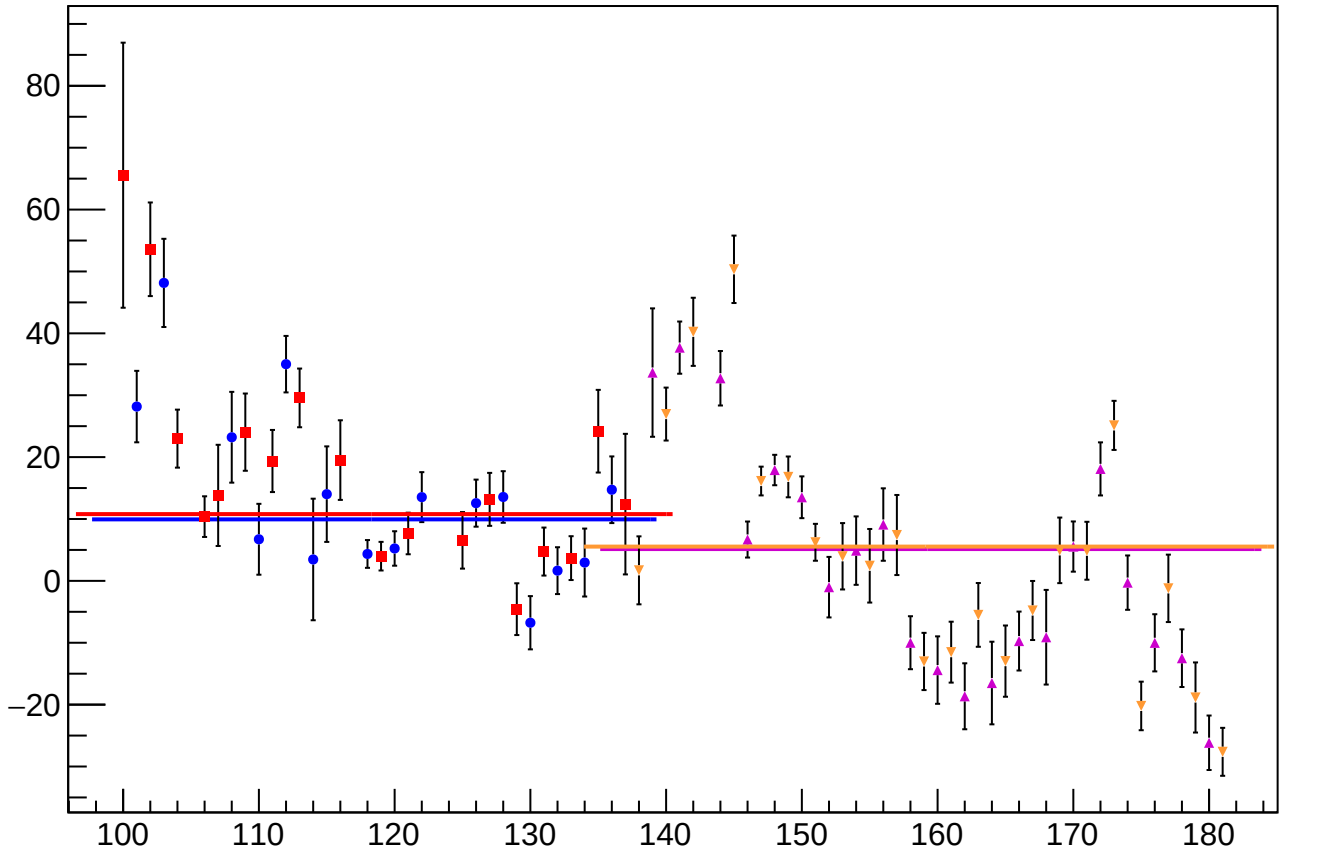
Left: -276.731+/-0.908 $\chi^2$/NDF: 4158.4/42

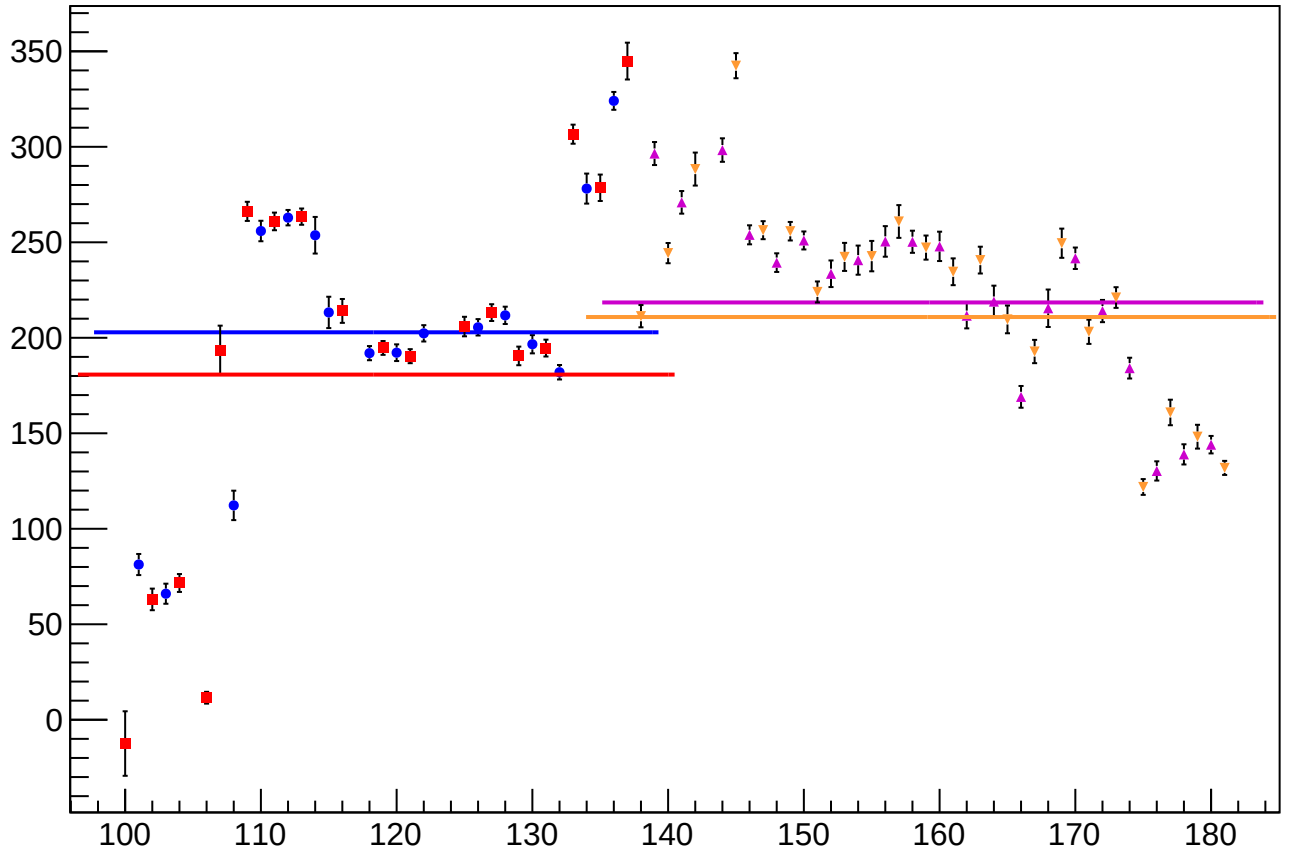
Right: -200.079+/-0.729 $\chi^2$/NDF: 6077.7/33

In: -237.745+/-0.826 $\chi^2$/NDF:5355.8/36

Out: -223.222+/-0.784 $\chi^2$/NDF:9048.5/39

All: -230.109+/-0.569 $\chi^2$/NDF: 14566.9/76


reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
100
110
120
130
140
150
160
170
180
Right In: 9.938+/-1.065 χ²/NDF: 106.6/15
Left Out: 5.538+/-0.924 χ²/NDF:374.5/21
Right Out: 10.788+/-1.044 χ²/NDF: 105.1/17
Left In: 5.142+/-0.949 χ²/NDF:297.3/20
Left: 5.345+/-0.662 χ²/NDF: 671.9/42
Right: 10.372+/-0.746 χ²/NDF: 212.0/33
In: 7.263+/-0.709 χ²/NDF:415.2/36
Out: 7.844+/-0.692 χ²/NDF:493.7/39
All: 7.560+/-0.495 χ²/NDF: 909.3/76




Right In: 202.874+/-1.226 $\chi^2$/NDF: 2464.2/15

Left Out: 210.874+/-1.252 $\chi^2$/NDF:1955.8/21

Right Out: 180.731+/-1.144 $\chi^2$/NDF: 6347.9/17

Left In: 218.503+/-1.284 $\chi^2$/NDF:1536.2/20

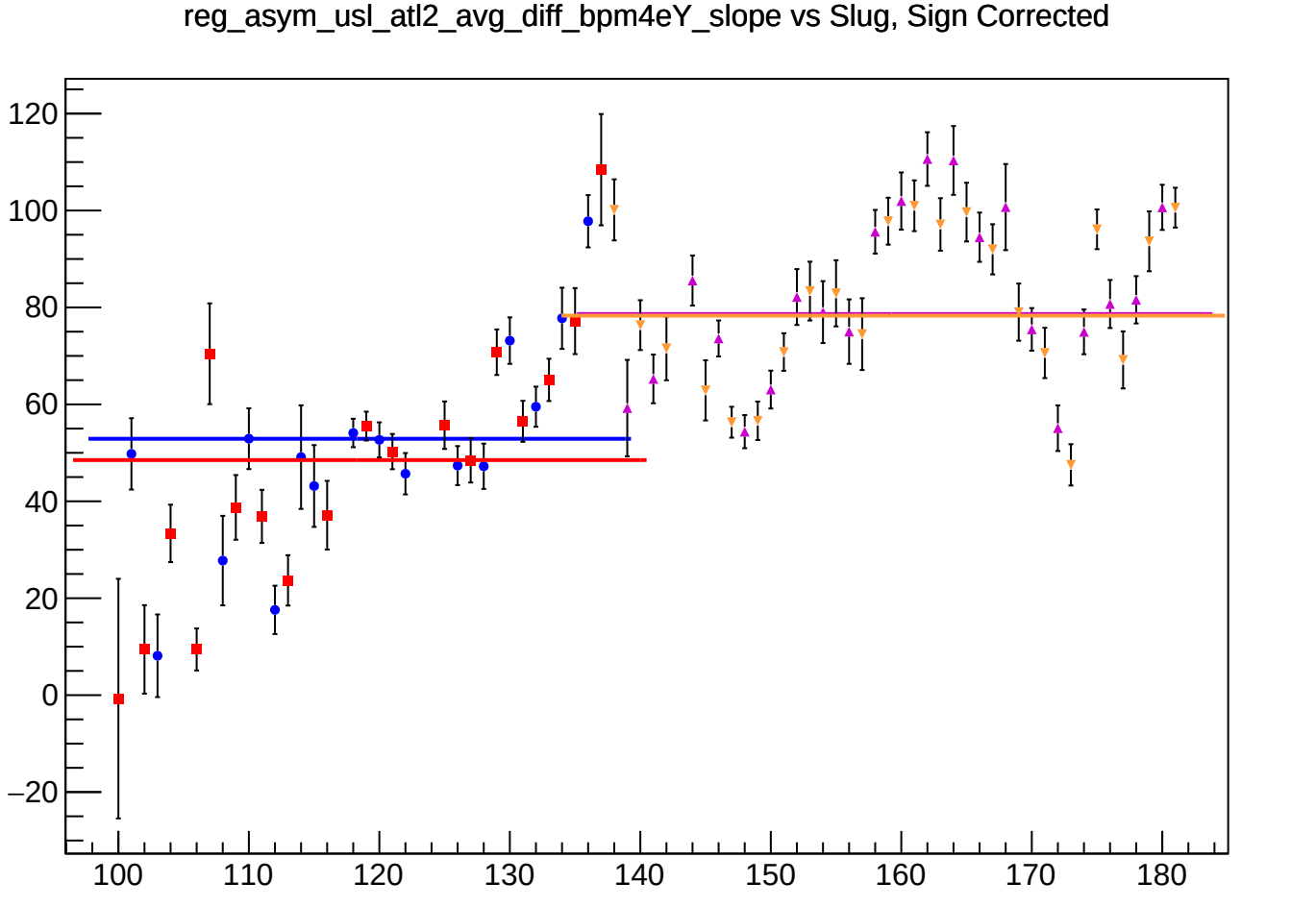
Left: 214.590+/-0.897 $\chi^2$/NDF: 3510.1/42

Right: 191.037+/-0.836 $\chi^2$/NDF: 8986.6/33

In: 210.322+/-0.887 $\chi^2$/NDF:4077.9/36

Out: 194.443+/-0.844 $\chi^2$/NDF:8619.7/39

All: 201.994+/-0.611 $\chi^2$/NDF: 12865.8/76




Right In: 52.899+/-1.242 $\chi^2$/NDF: 198.3/15

Left Out: 78.308+/-1.066 $\chi^2$/NDF:279.7/21

Right Out: 48.510+/-1.214 $\chi^2$/NDF: 240.0/17

Left In: 78.640+/-1.089 $\chi^2$/NDF:229.7/20

Left: 78.470+/-0.762 $\chi^2$/NDF: 509.4/42

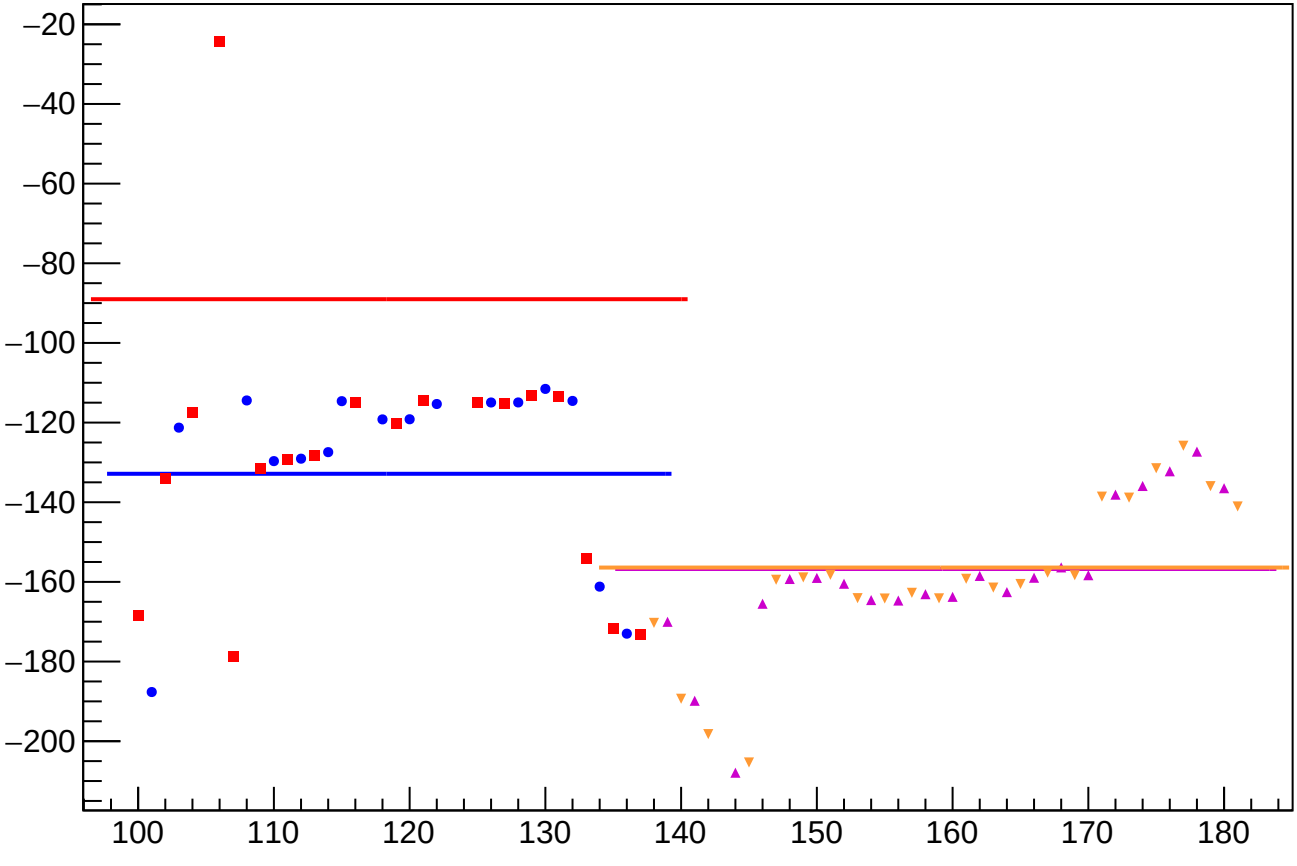
Right: 50.656+/-0.868 $\chi^2$/NDF: 444.7/33

In: 67.444+/-0.819 $\chi^2$/NDF:670.9/36

Out: 65.337+/-0.801 $\chi^2$/NDF:859.7/39

All: 66.367+/-0.573 $\chi^2$/NDF: 1534.0/76

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -132.856+/-0.081 $\chi^2$/NDF: 93497.9/15

Left Out: -156.401+/-0.050 $\chi^2$/NDF:137084.9/21

Right Out: -89.020+/-0.064 $\chi^2$/NDF: 728110.1/17

Left In: -156.759+/-0.050 $\chi^2$/NDF:121333.6/20

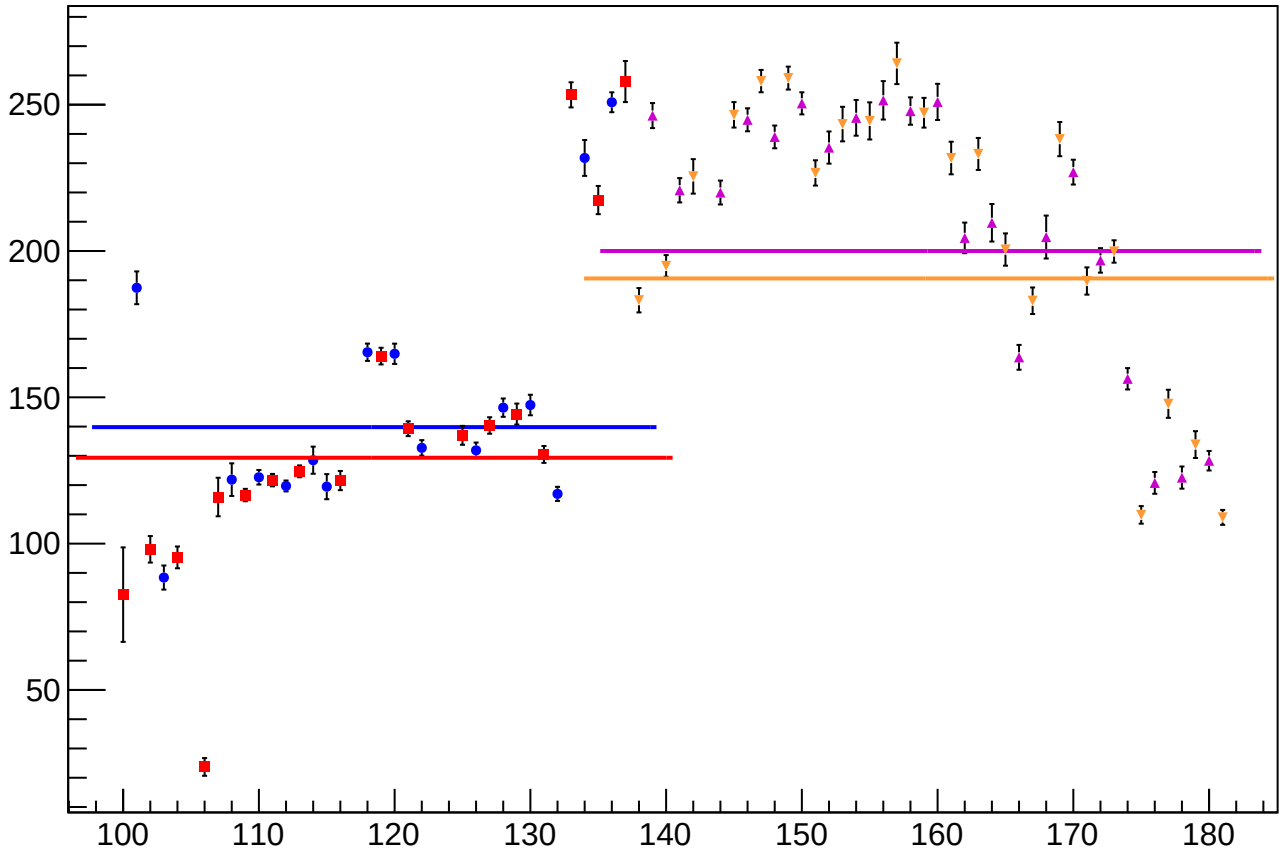
Left: -156.580+/-0.035 $\chi^2$/NDF: 258444.5/42

Right: -105.832+/-0.050 $\chi^2$/NDF: 1000593.4/33

In: -150.262+/-0.042 $\chi^2$/NDF:277695.2/36

Out: -131.122+/-0.039 $\chi^2$/NDF:1554171.3/39

All: -139.964+/-0.029 $\chi^2$/NDF: 1941423.4/76




Right In: 139.810+/-0.785 $\chi^2$/NDF: 1964.9/15

Left Out: 190.623+/-0.929 $\chi^2$/NDF:3449.1/21

Right Out: 129.344+/-0.734 $\chi^2$/NDF: 3123.5/17

Left In: 199.993+/-0.961 $\chi^2$/NDF:2499.5/20

Left: 195.151+/-0.668 $\chi^2$/NDF: 5997.7/42

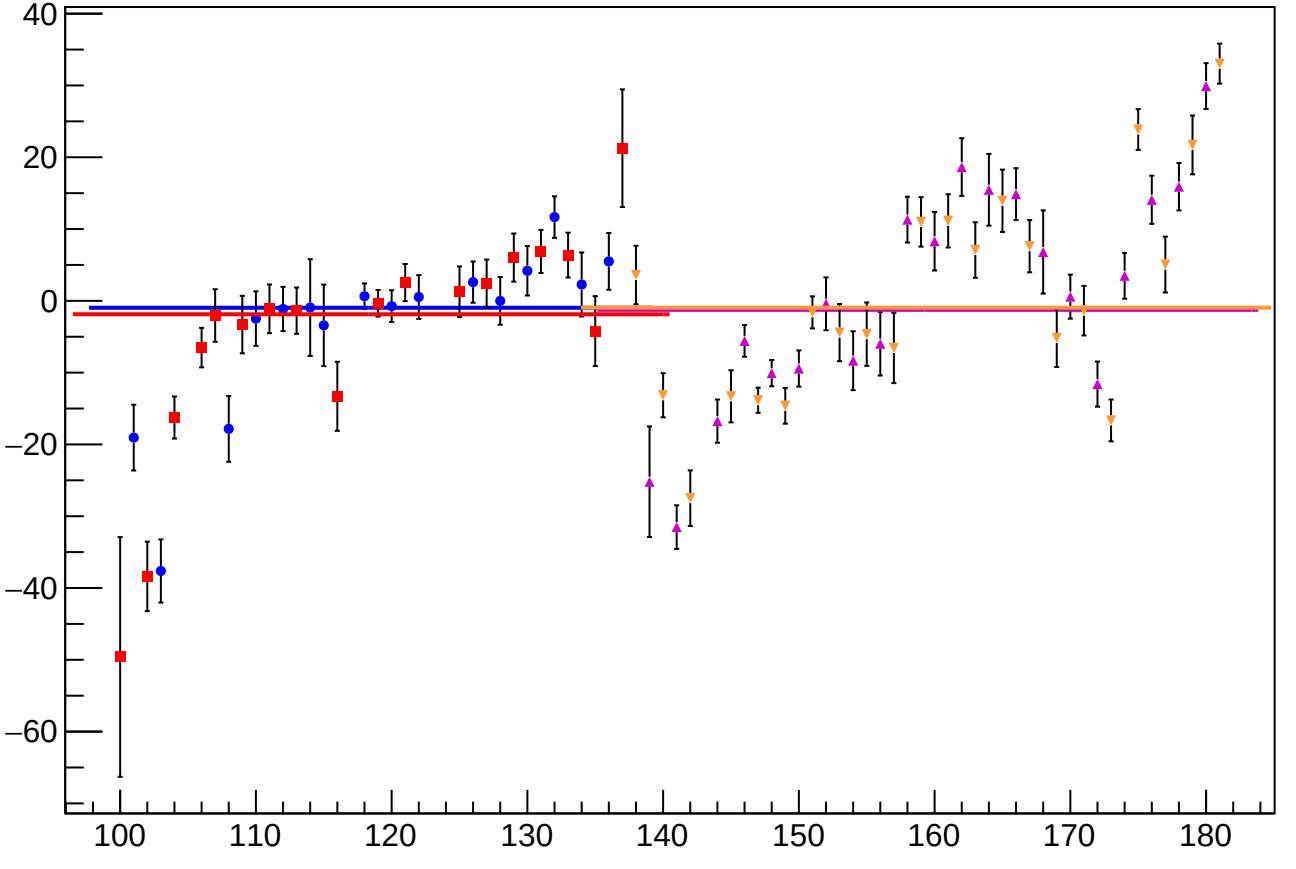
Right: 134.231+/-0.536 $\chi^2$/NDF: 5183.3/33

In: 163.883+/-0.608 $\chi^2$/NDF:6818.1/36

Out: 152.898+/-0.576 $\chi^2$/NDF:9249.8/39

All: 158.097+/-0.418 $\chi^2$/NDF: 16239.9/76

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.963+/-0.808 $\chi^2$/NDF: 126.1/15

Left Out: -0.946+/-0.683 $\chi^2$/NDF:495.5/21

Right Out: -1.869+/-0.784 $\chi^2$/NDF: 133.2/17

Left In: -1.254+/-0.701 $\chi^2$/NDF:412.2/20

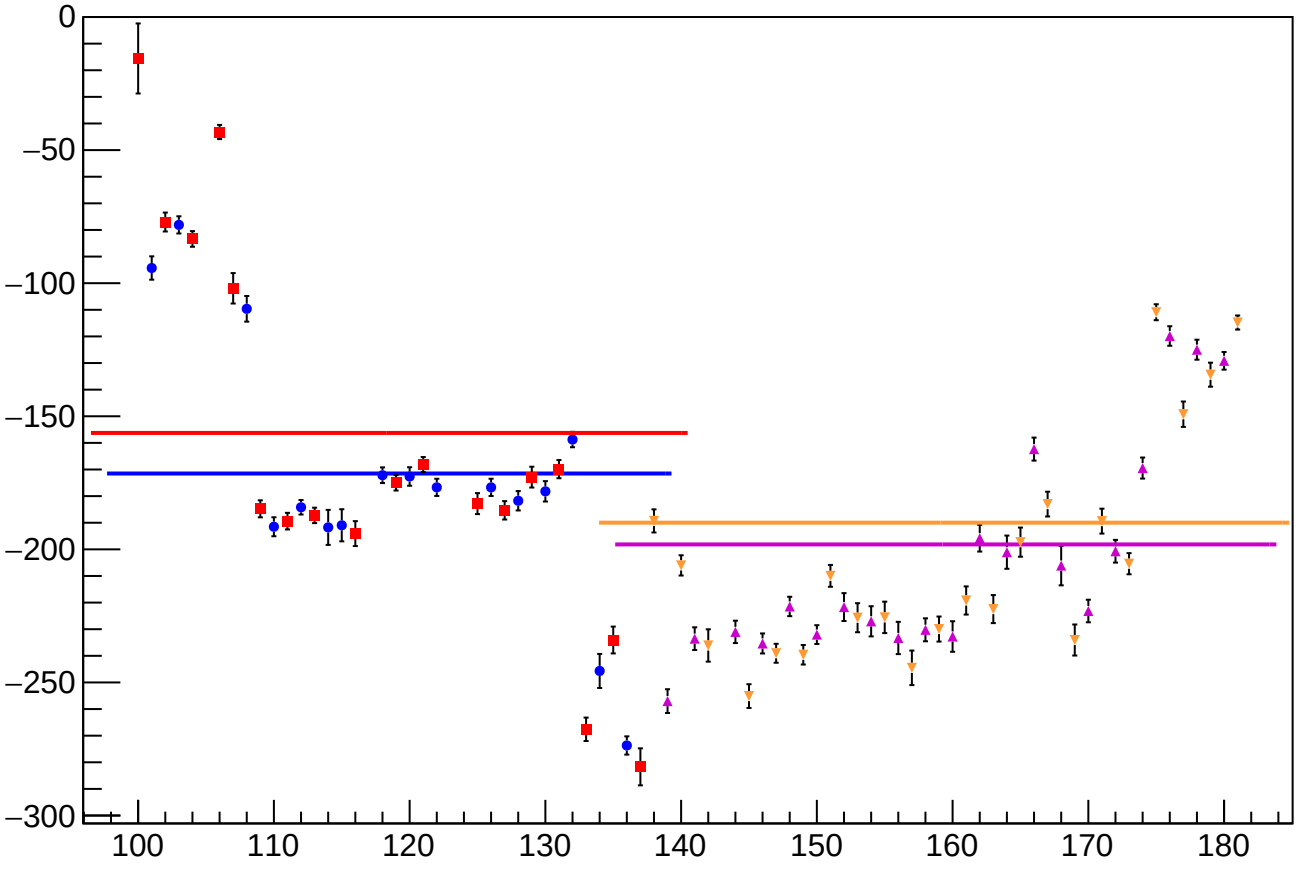
Left: -1.096+/-0.489 $\chi^2$/NDF: 907.8/42

Right: -1.430+/-0.563 $\chi^2$/NDF: 259.9/33

In: -1.129+/-0.530 $\chi^2$/NDF:538.3/36

Out: -1.344+/-0.515 $\chi^2$/NDF:629.5/39

All: -1.240+/-0.369 $\chi^2$/NDF: 1167.9/76




Right In: -171.506+/-0.907 $\chi^2$/NDF: 2442.8/15

Left Out: -189.975+/-0.920 $\chi^2$/NDF:2781.7/21

Right Out: -156.260+/-0.847 $\chi^2$/NDF: 4904.3/17

Left In: -198.148+/-0.947 $\chi^2$/NDF:2131.6/20

Left: -193.944+/-0.660 $\chi^2$/NDF: 4951.6/42

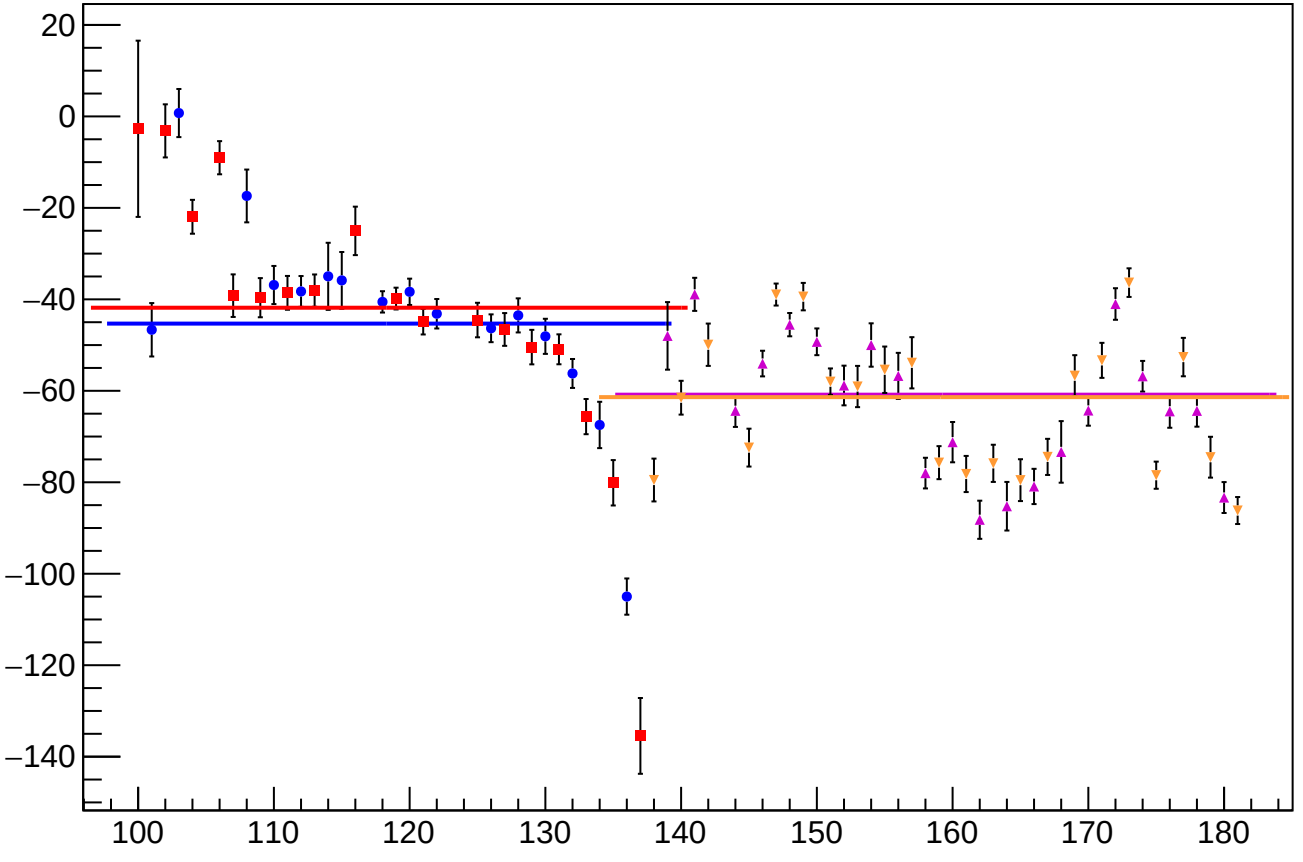
Right: -163.367+/-0.619 $\chi^2$/NDF: 7498.1/33

In: -184.247+/-0.655 $\chi^2$/NDF:4987.2/36

Out: -171.726+/-0.623 $\chi^2$/NDF:8412.3/39

All: -177.677+/-0.452 $\chi^2$/NDF: 13591.3/76

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -45.304+/-0.938 $\chi^2$/NDF: 382.0/15

Left Out: -61.382+/-0.787 $\chi^2$/NDF:433.2/21

Right Out: -41.832+/-0.909 $\chi^2$/NDF: 414.2/17

Left In: -60.845+/-0.805 $\chi^2$/NDF:312.8/20

Left: -61.119+/-0.563 $\chi^2$/NDF: 746.3/42

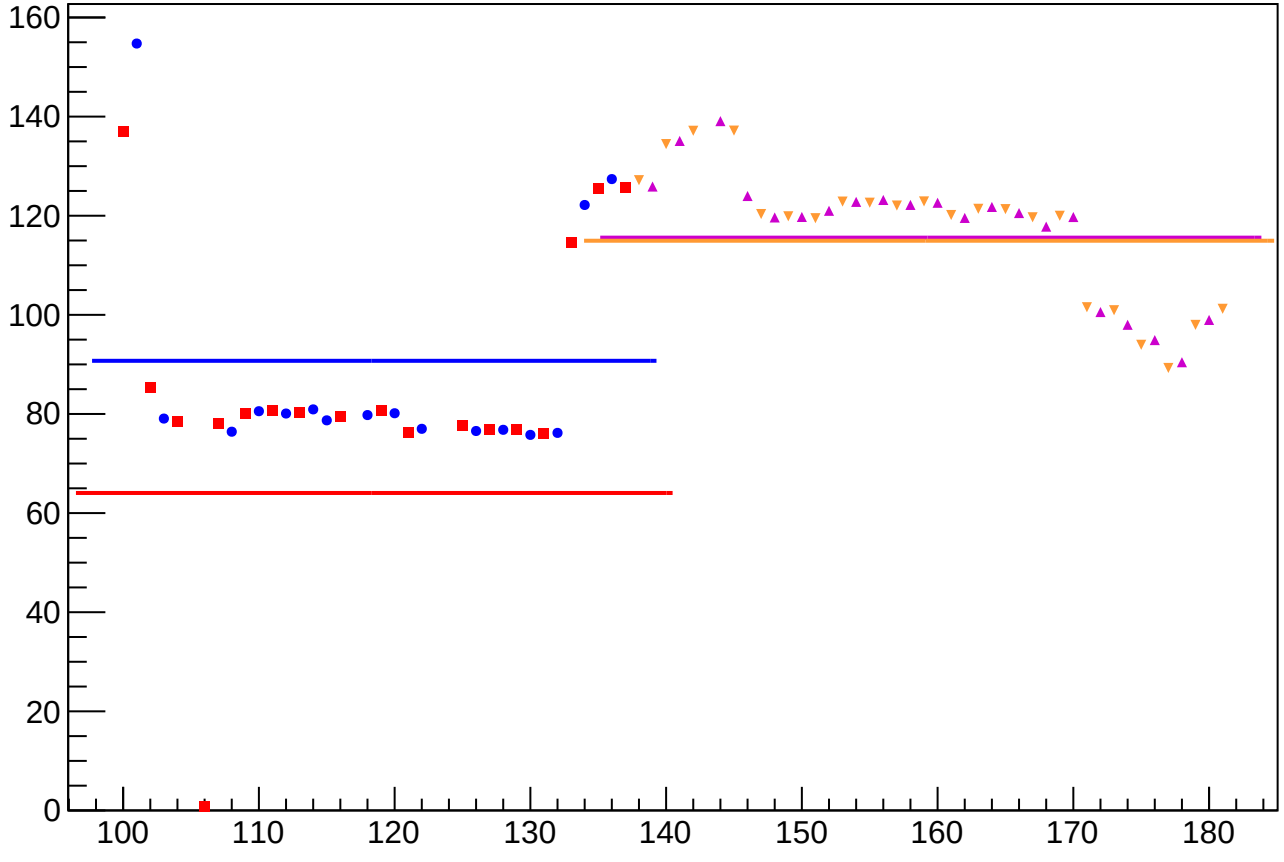
Right: -43.515+/-0.653 $\chi^2$/NDF: 803.4/33

In: -54.254+/-0.611 $\chi^2$/NDF:853.1/36

Out: -53.011+/-0.595 $\chi^2$/NDF:1111.8/39

All: -53.616+/-0.426 $\chi^2$/NDF: 1967.0/76

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 90.726+/-0.058 $\chi^2$/NDF: 161153.0/15

Left Out: 114.955+/-0.037 $\chi^2$/NDF:135135.0/21

Right Out: 64.059+/-0.049 $\chi^2$/NDF: 660935.1/17

Left In: 115.576+/-0.037 $\chi^2$/NDF:124427.0/20

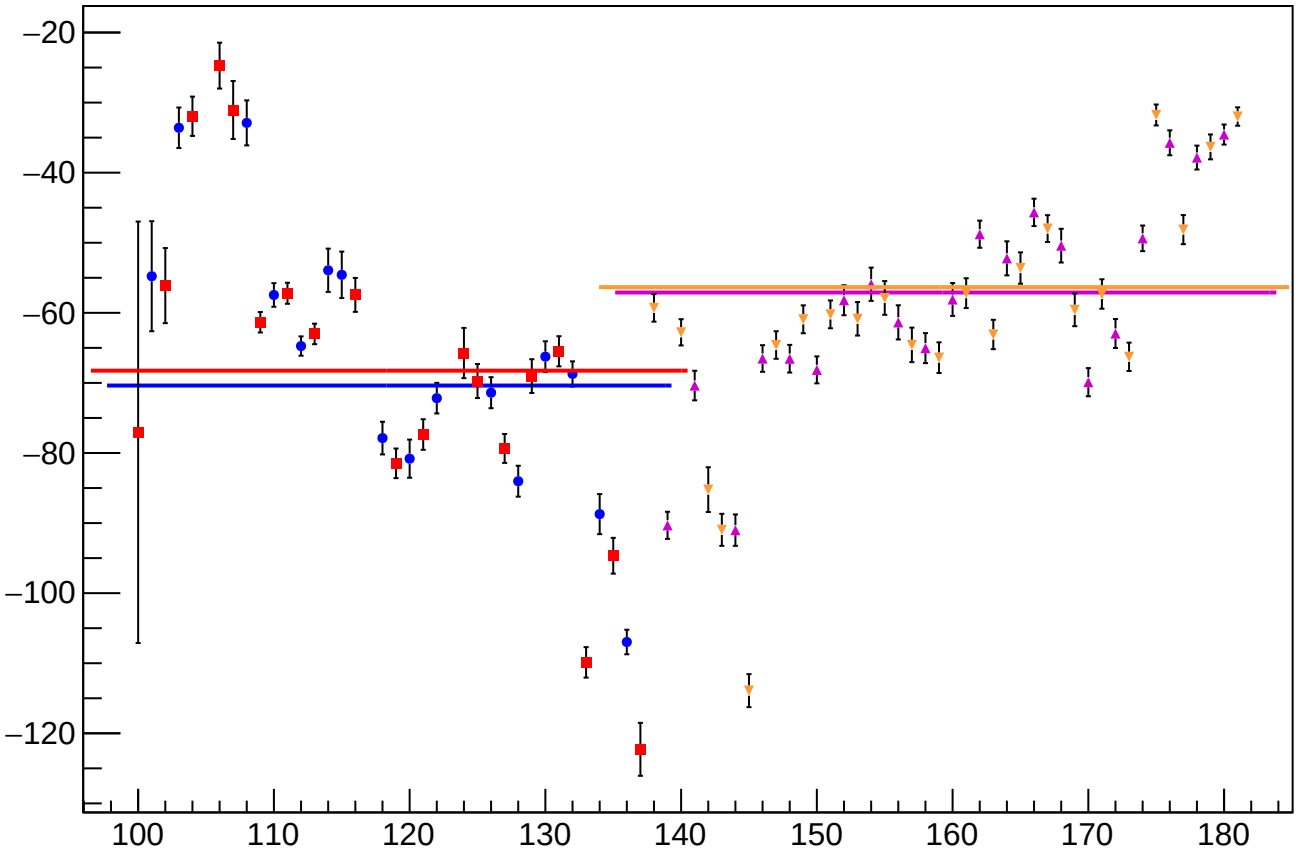
Left: 115.265+/-0.026 $\chi^2$/NDF: 259705.1/42

Right: 75.136+/-0.038 $\chi^2$/NDF: 943639.1/33

In: 108.544+/-0.031 $\chi^2$/NDF:415036.1/36

Out: 96.828+/-0.029 $\chi^2$/NDF:1482400.7/39

All: 102.359+/-0.021 $\chi^2$/NDF: 1972295.6/76




Right In: -70.374+/-0.558 $\chi^2$/NDF: 974.9/15

Left Out: -56.334+/-0.420 $\chi^2$/NDF:1801.5/22

Right Out: -68.252+/-0.527 $\chi^2$/NDF: 1306.0/18

Left In: -57.098+/-0.436 $\chi^2$/NDF:1311.6/20

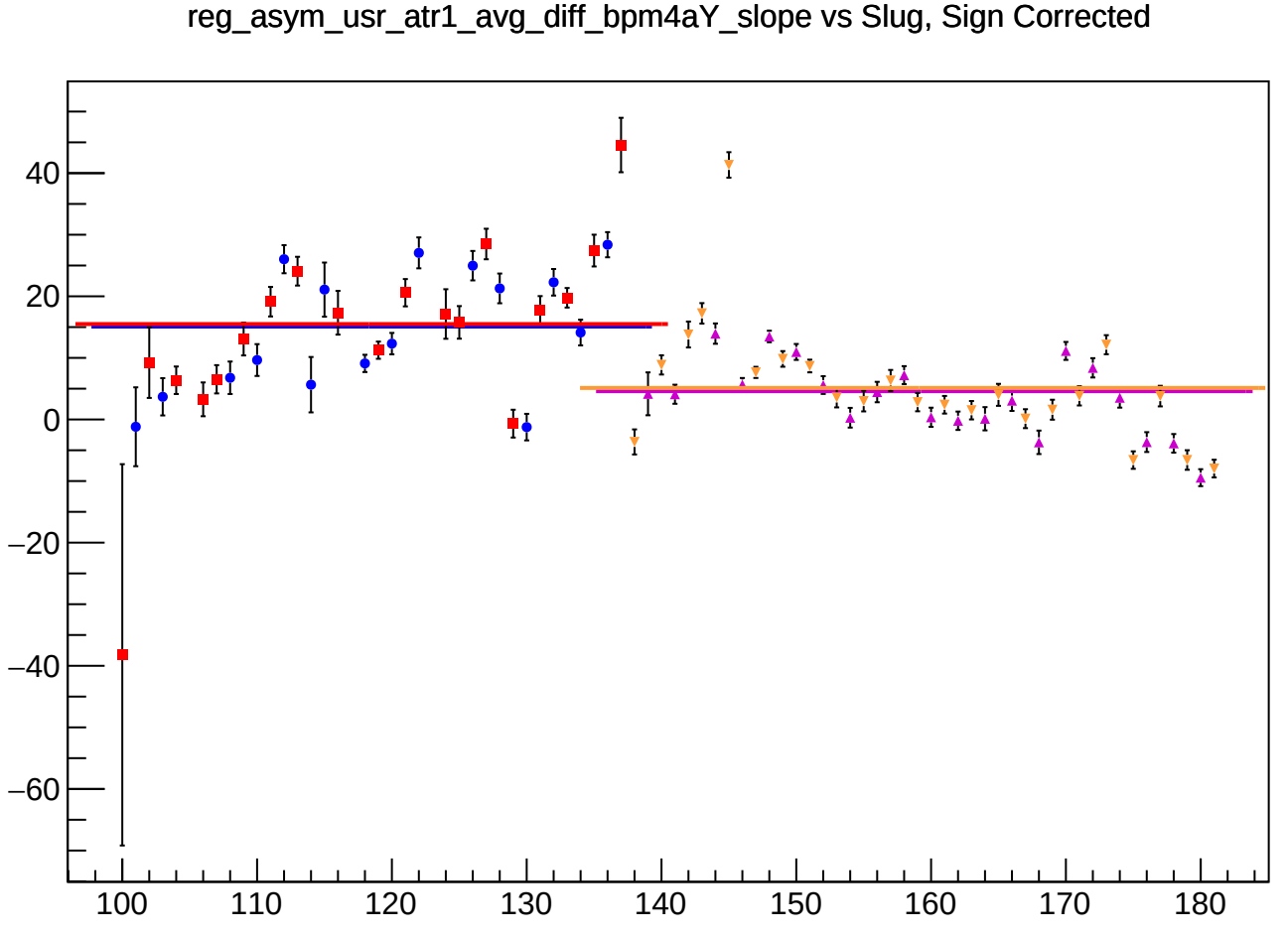
Left: -56.702+/-0.303 $\chi^2$/NDF: 3114.8/43

Right: -69.252+/-0.383 $\chi^2$/NDF: 2288.5/34

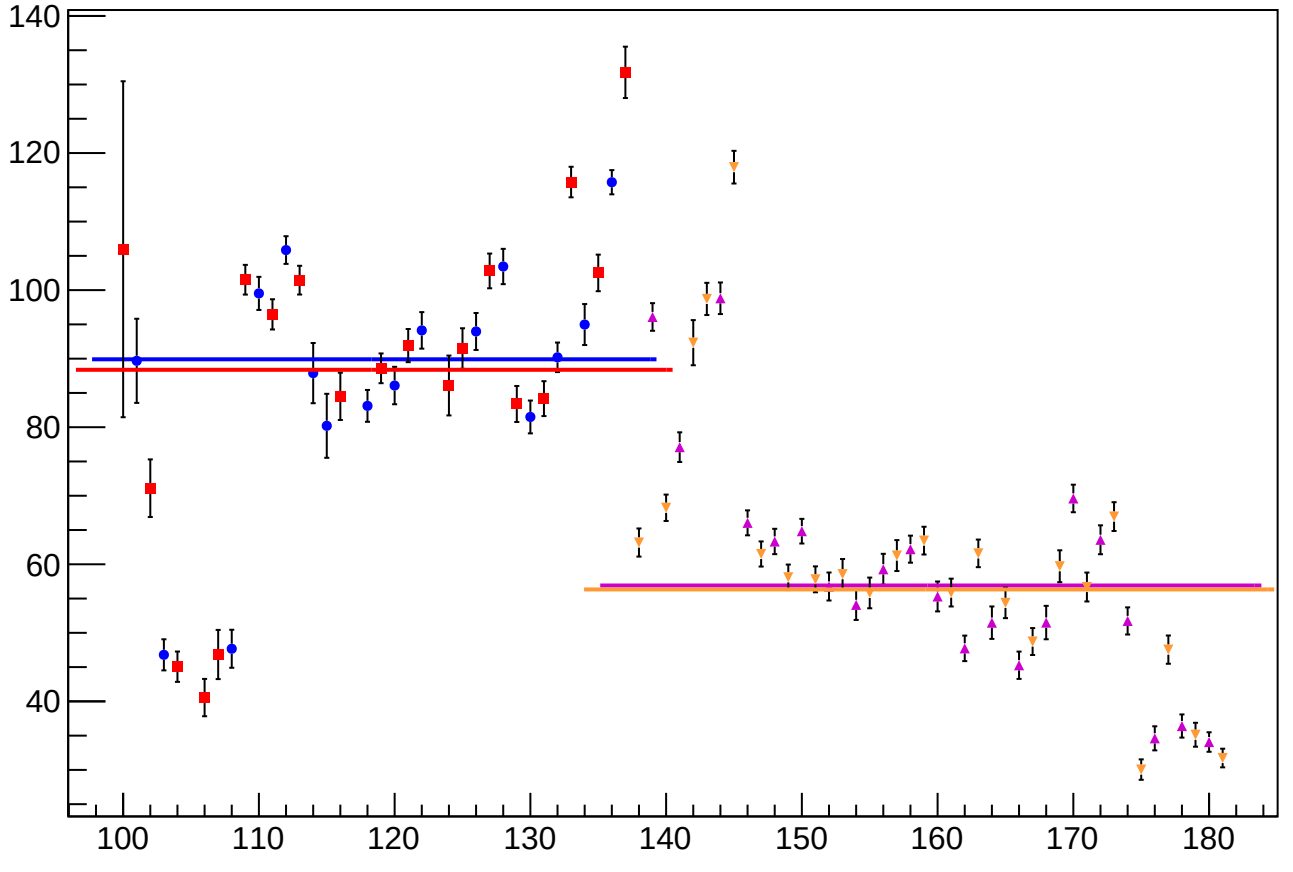
In: -62.136+/-0.344 $\chi^2$/NDF:2638.1/36

Out: -60.973+/-0.329 $\chi^2$/NDF:3420.2/41

All: -61.528+/-0.237 $\chi^2$/NDF: 6064.3/78


reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
100
110
120
130
140
150
160
170
180
Right In: 15.092+/-0.581 χ²/NDF: 242.4/15
Left Out: 5.116+/-0.310 χ²/NDF:692.4/22
Right Out: 15.491+/-0.558 χ²/NDF: 239.3/18
Left In: 4.591+/-0.323 χ²/NDF:390.8/20
Left: 4.864+/-0.224 χ²/NDF: 1084.6/43
Right: 15.300+/-0.402 χ²/NDF: 482.0/34
In: 7.070+/-0.282 χ²/NDF:882.9/36
Out: 7.563+/-0.271 χ²/NDF:1195.7/41
All: 7.326+/-0.195 χ²/NDF: 2080.2/78

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 89.907+/-0.641 $\chi^2$/NDF: 947.7/15

Left Out: 56.330+/-0.415 $\chi^2$/NDF:2044.2/22

Right Out: 88.375+/-0.617 $\chi^2$/NDF: 1288.9/18

Left In: 56.903+/-0.429 $\chi^2$/NDF:1553.4/20

Left: 56.607+/-0.298 $\chi^2$/NDF: 3598.4/43

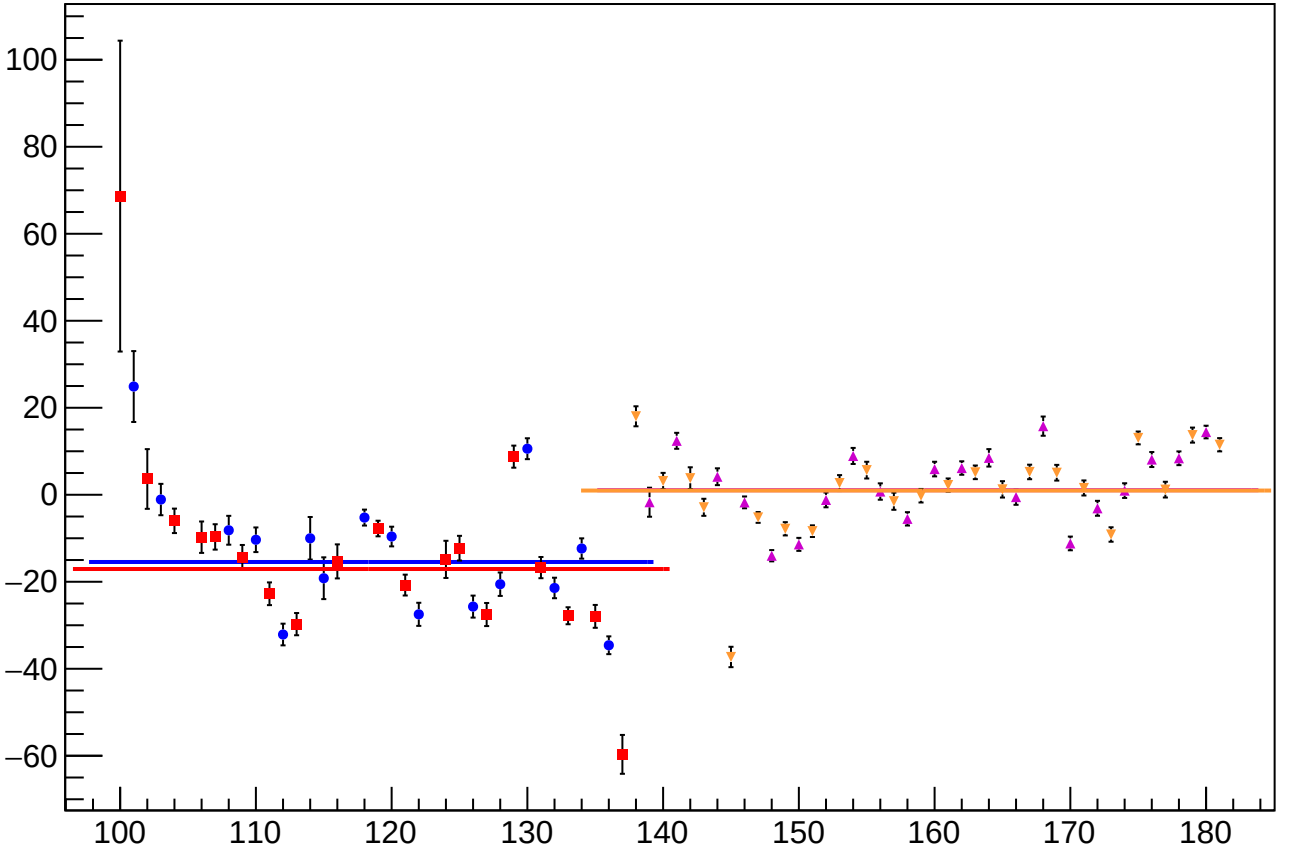
Right: 89.113+/-0.445 $\chi^2$/NDF: 2239.5/34

In: 67.106+/-0.356 $\chi^2$/NDF:4334.3/36

Out: 66.300+/-0.344 $\chi^2$/NDF:5188.7/41

All: 66.689+/-0.248 $\chi^2$/NDF: 9525.7/78

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -15.454+/-0.665 $\chi^2$/NDF: 386.5/15

Left Out: 0.971+/-0.354 $\chi^2$/NDF:669.3/22

Right Out: -17.066+/-0.644 $\chi^2$/NDF: 361.0/18

Left In: 1.052+/-0.367 $\chi^2$/NDF:555.1/20

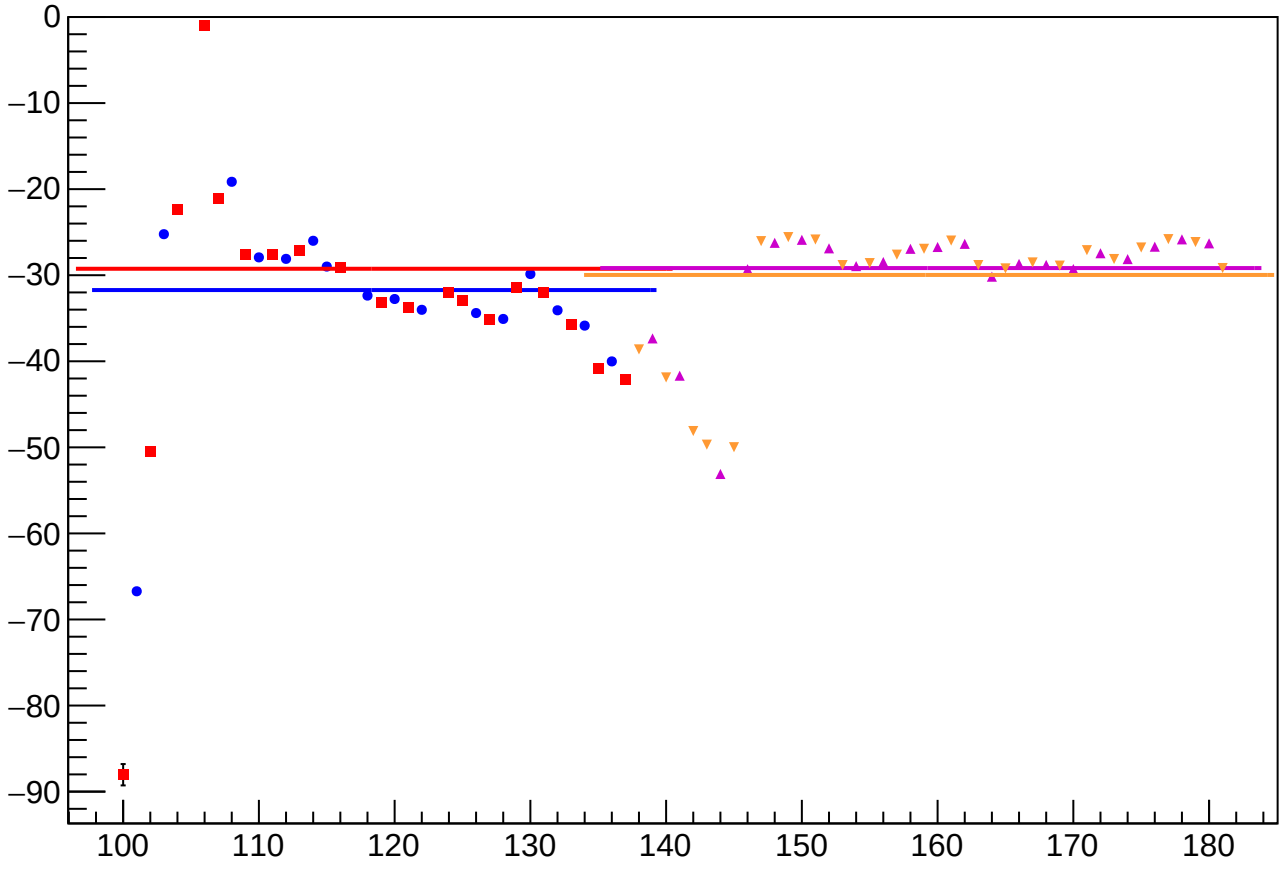
Left: 1.010+/-0.255 $\chi^2$/NDF: 1224.4/43

Right: -16.287+/-0.463 $\chi^2$/NDF: 750.5/34

In: -2.798+/-0.321 $\chi^2$/NDF:1413.3/36

Out: -3.227+/-0.310 $\chi^2$/NDF:1632.8/41

All: -3.020+/-0.223 $\chi^2$/NDF: 3047.1/78




Right In: -31.725+/-0.039 $\chi^2$/NDF: 39636.6/15

Left Out: -29.969+/-0.016 $\chi^2$/NDF:161126.3/22

Right Out: -29.250+/-0.038 $\chi^2$/NDF: 95235.9/18

Left In: -29.169+/-0.016 $\chi^2$/NDF:100947.3/20

Left: -29.575+/-0.012 $\chi^2$/NDF: 263279.1/43

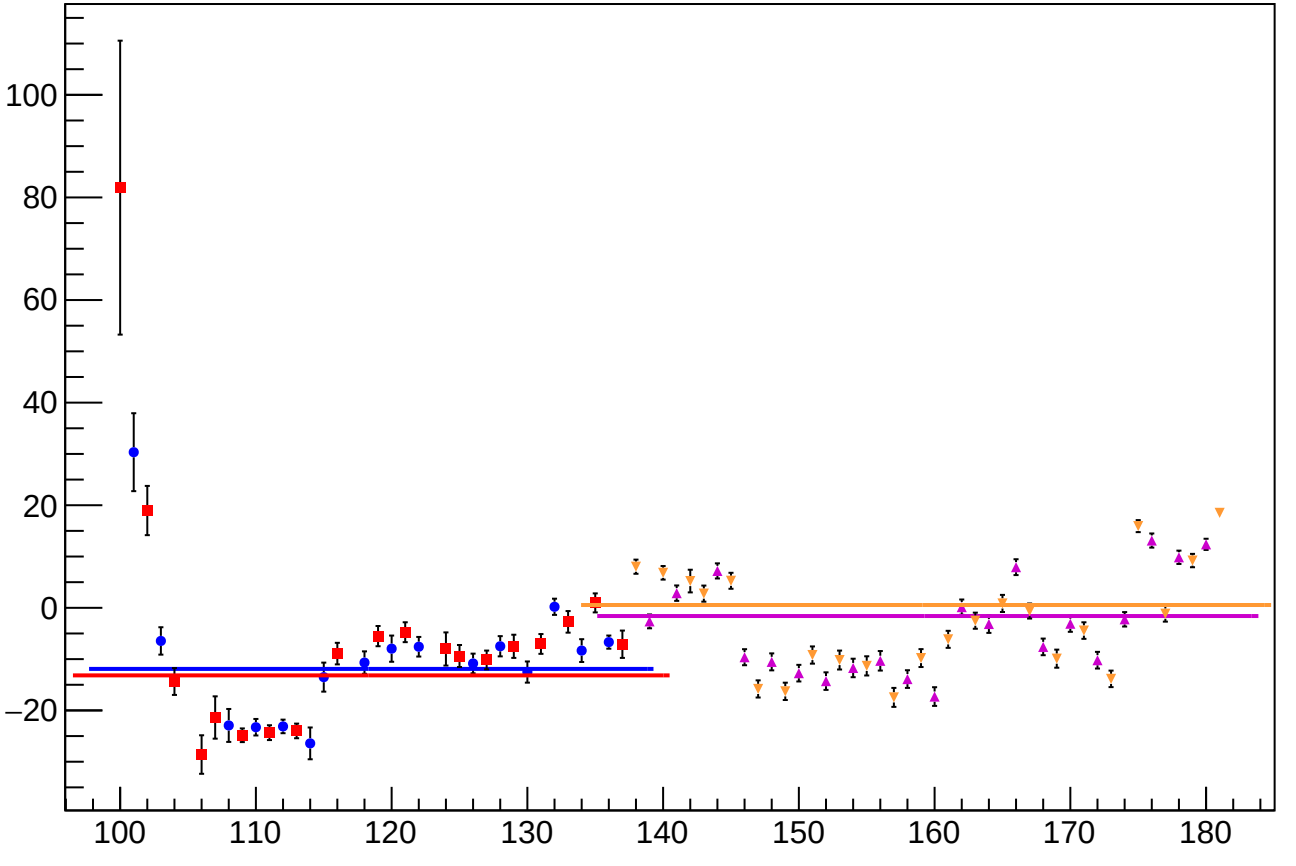
Right: -30.485+/-0.027 $\chi^2$/NDF: 136941.1/34

In: -29.562+/-0.015 $\chi^2$/NDF:144309.6/36

Out: -29.861+/-0.015 $\chi^2$/NDF:256659.7/41

All: -29.714+/-0.011 $\chi^2$/NDF: 401167.5/78

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -11.906+/-0.497 $\chi^2$/NDF: 282.1/15

Left Out: 0.550+/-0.319 $\chi^2$/NDF:1195.6/22

Right Out: -13.169+/-0.480 $\chi^2$/NDF: 421.5/18

Left In: -1.599+/-0.333 $\chi^2$/NDF:819.8/20

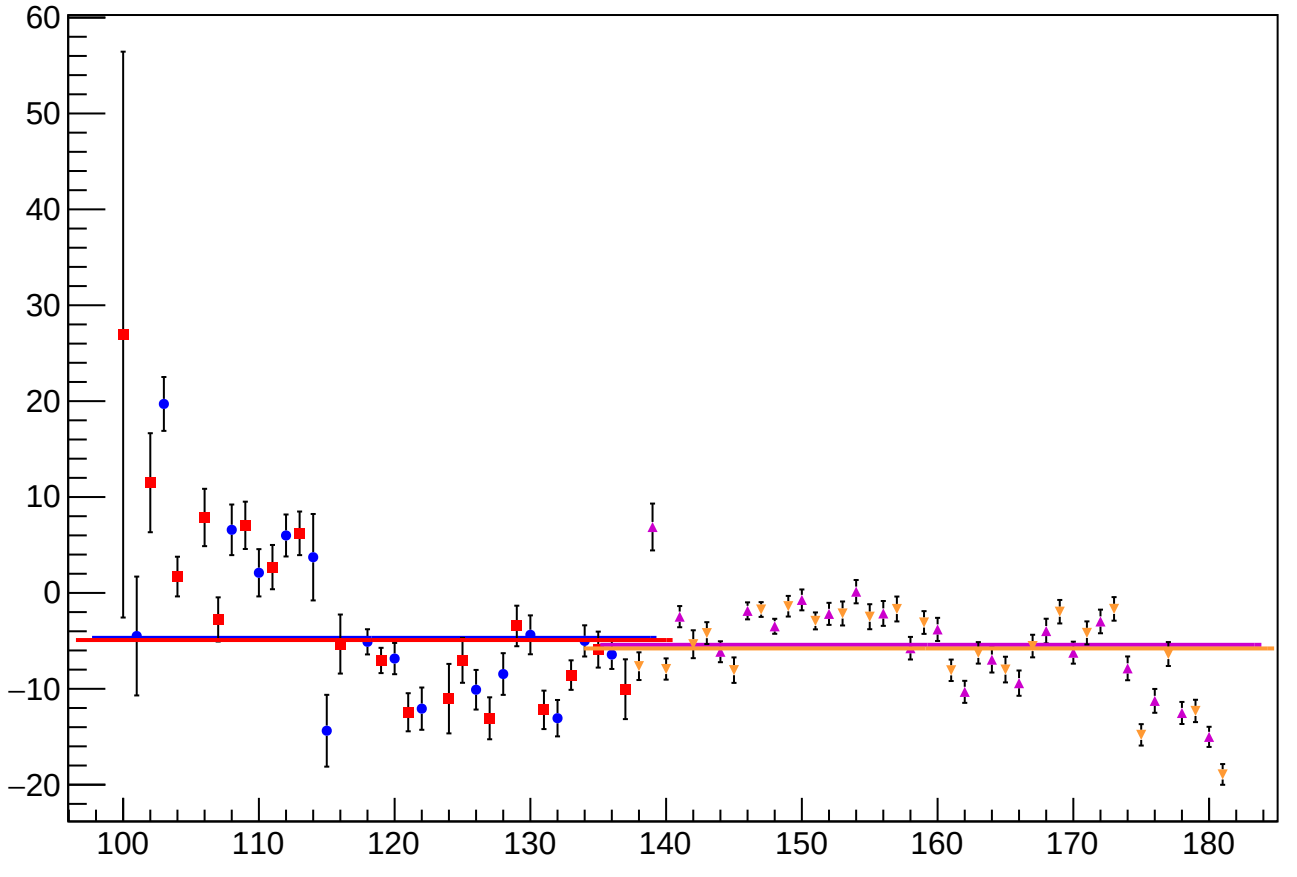
Left: -0.477+/-0.230 $\chi^2$/NDF: 2037.1/43

Right: -12.559+/-0.345 $\chi^2$/NDF: 706.9/34

In: -4.800+/-0.277 $\chi^2$/NDF:1398.8/36

Out: -3.651+/-0.266 $\chi^2$/NDF:2183.5/41

All: -4.202+/-0.192 $\chi^2$/NDF: 3591.2/78




Right In: -4.686+/-0.517 $\chi^2$/NDF: 179.0/15

Left Out: -5.790+/-0.240 $\chi^2$/NDF:369.9/22

Right Out: -4.913+/-0.513 $\chi^2$/NDF: 155.9/18

Left In: -5.412+/-0.251 $\chi^2$/NDF:292.4/20

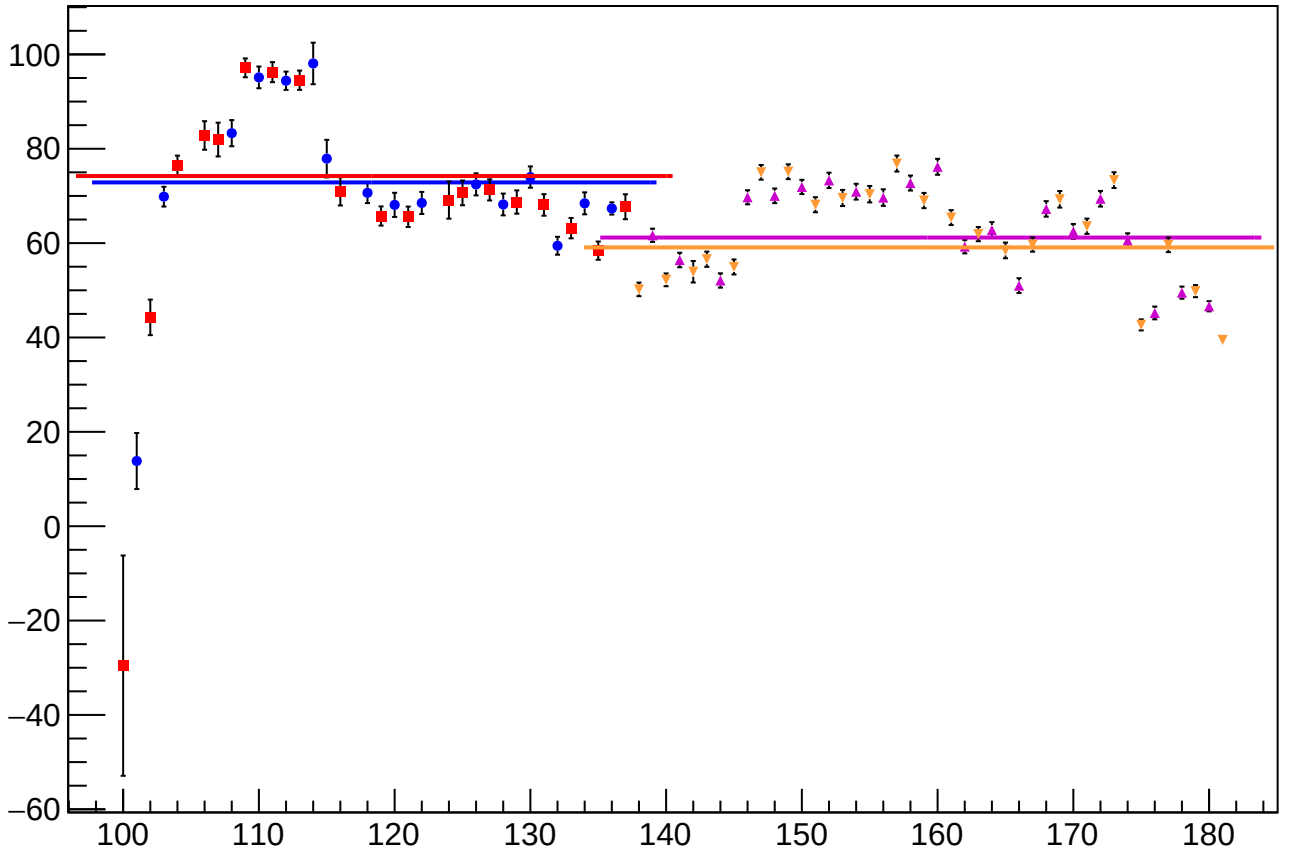
Left: -5.610+/-0.173 $\chi^2$/NDF: 663.5/43

Right: -4.801+/-0.364 $\chi^2$/NDF: 335.0/34

In: -5.274+/-0.226 $\chi^2$/NDF:473.1/36

Out: -5.633+/-0.217 $\chi^2$/NDF:528.2/41

All: -5.460+/-0.156 $\chi^2$/NDF: 1002.6/78




Right In: 72.866+/-0.565 $\chi^2$/NDF: 450.7/15

Left Out: 59.088+/-0.316 $\chi^2$/NDF:1295.0/22

Right Out: 74.217+/-0.562 $\chi^2$/NDF: 586.2/18

Left In: 61.178+/-0.329 $\chi^2$/NDF:889.5/20

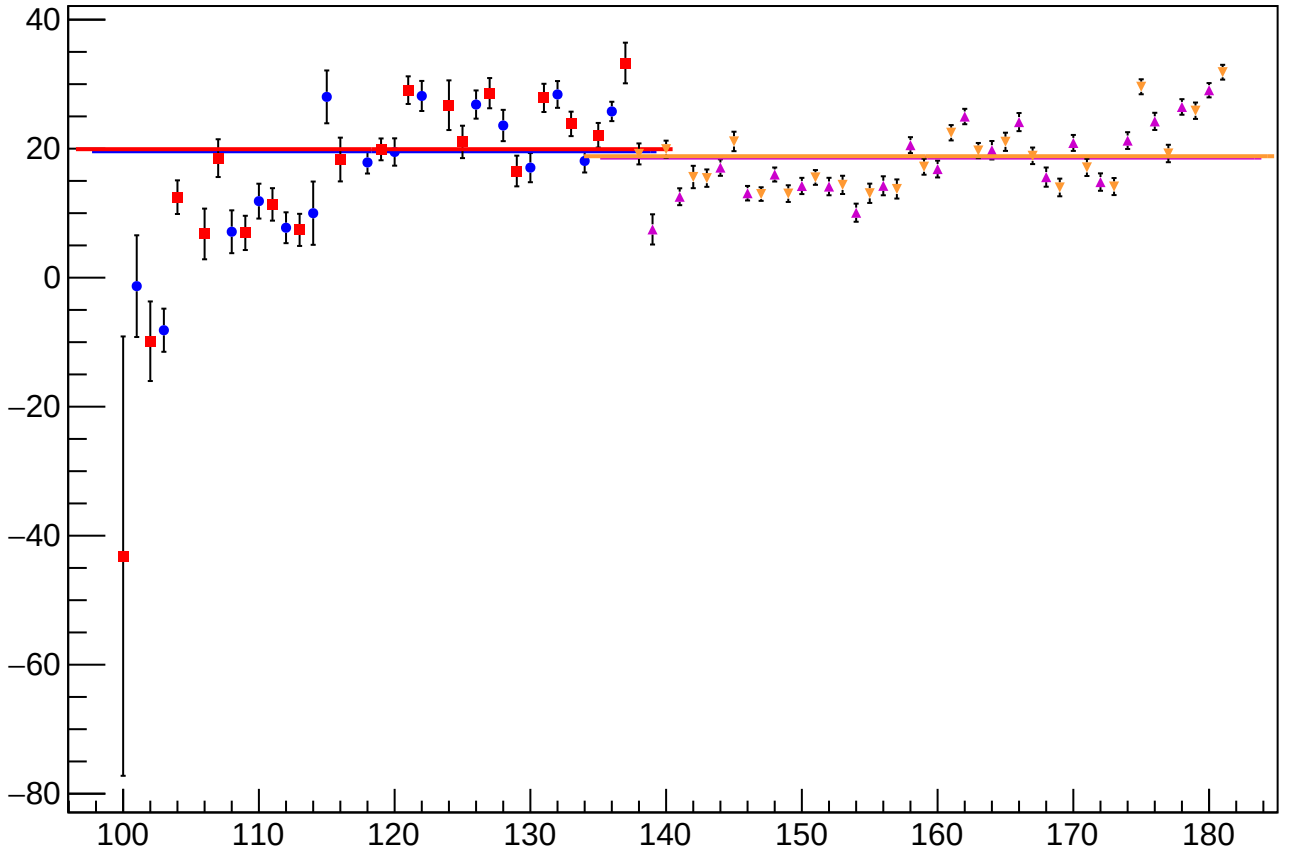
Left: 60.092+/-0.228 $\chi^2$/NDF: 2205.5/43

Right: 73.545+/-0.399 $\chi^2$/NDF: 1039.8/34

In: 64.128+/-0.284 $\chi^2$/NDF:1659.7/36

Out: 62.719+/-0.275 $\chi^2$/NDF:2431.5/41

All: 63.402+/-0.198 $\chi^2$/NDF: 4103.9/78




Right In: 19.598+/-0.585 $\chi^2$/NDF: 196.0/15

Left Out: 18.829+/-0.273 $\chi^2$/NDF:394.9/22

Right Out: 19.919+/-0.585 $\chi^2$/NDF: 181.3/18

Left In: 18.616+/-0.284 $\chi^2$/NDF:361.3/20

Left: 18.727+/-0.197 $\chi^2$/NDF: 756.6/43

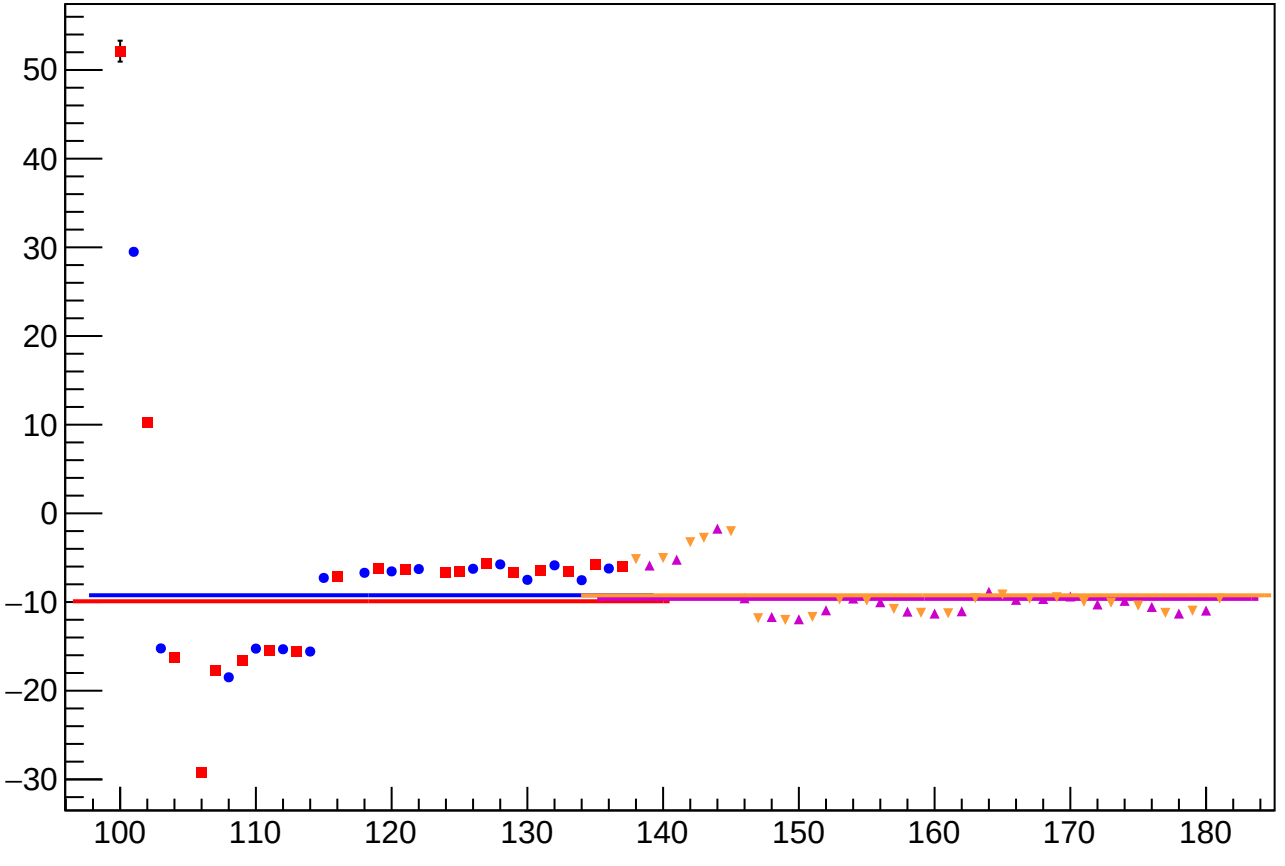
Right: 19.759+/-0.414 $\chi^2$/NDF: 377.5/34

In: 18.803+/-0.255 $\chi^2$/NDF:559.6/36

Out: 19.023+/-0.247 $\chi^2$/NDF:579.1/41

All: 18.917+/-0.178 $\chi^2$/NDF: 1139.1/78

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -9.235+/-0.033 $\chi^2$/NDF: 31159.3/15

Left Out: -9.242+/-0.012 $\chi^2$/NDF:48206.8/22

Right Out: -9.913+/-0.034 $\chi^2$/NDF: 53863.3/18

Left In: -9.646+/-0.013 $\chi^2$/NDF:31375.5/20

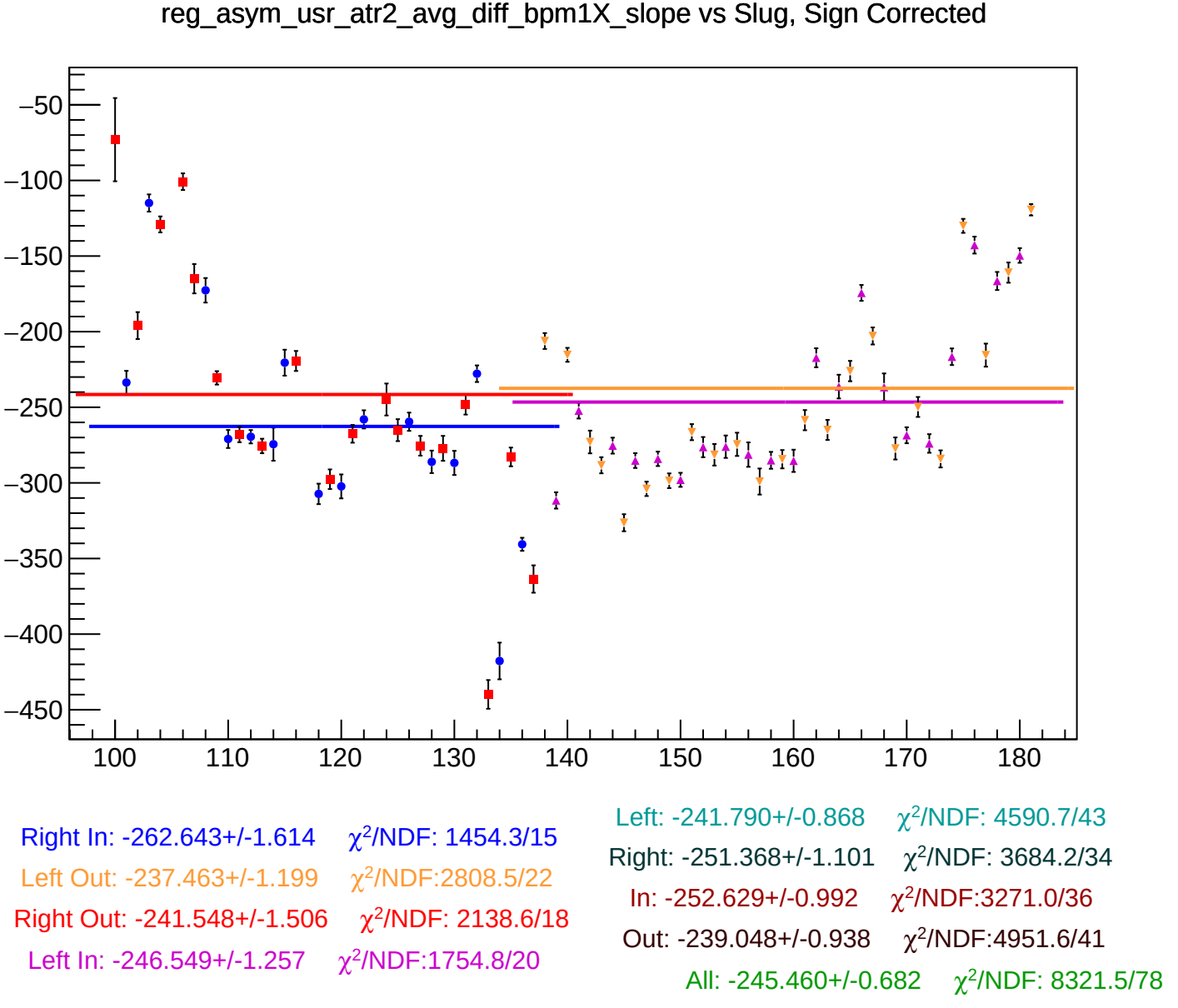
Left: -9.439+/-0.009 $\chi^2$/NDF: 80108.8/43

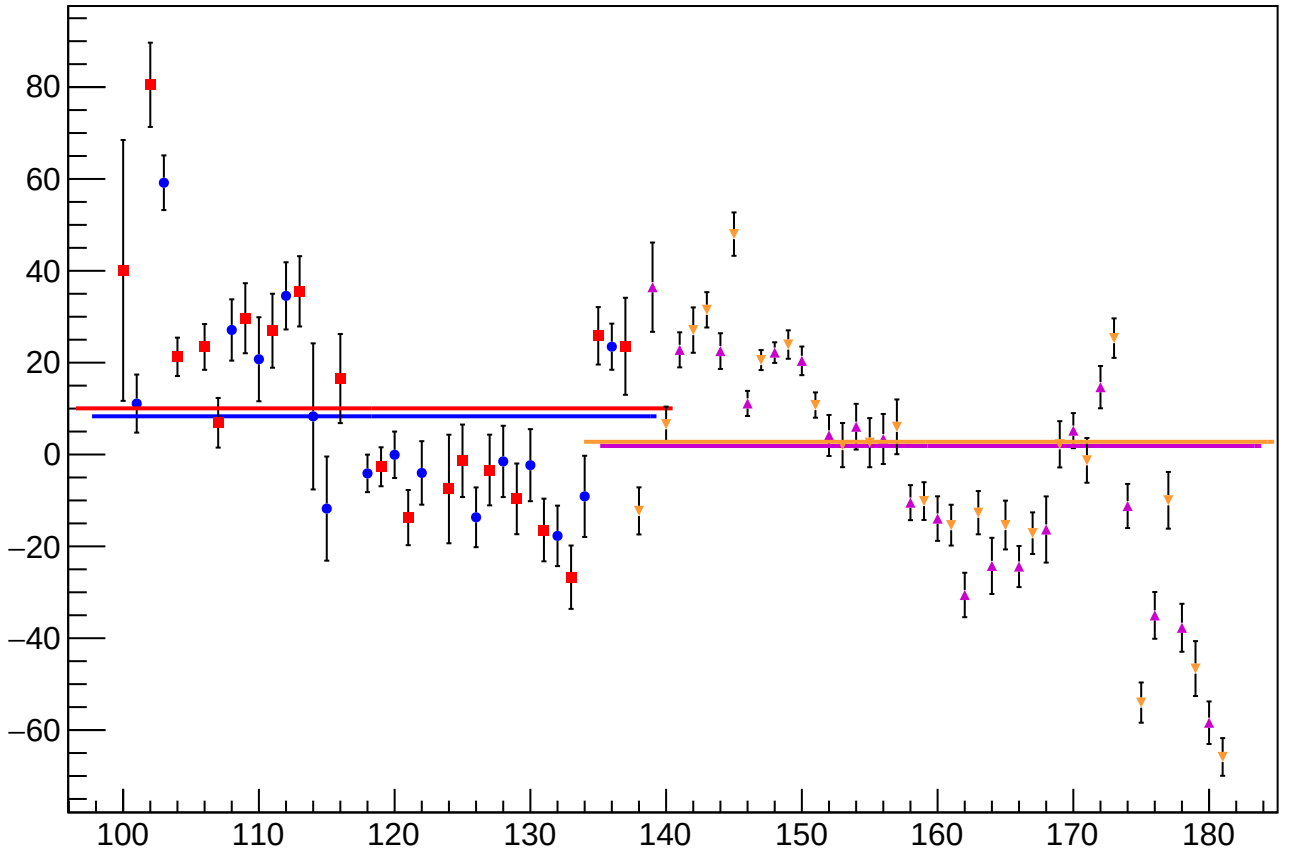
Right: -9.558+/-0.024 $\chi^2$/NDF: 85225.4/34

In: -9.593+/-0.012 $\chi^2$/NDF:62671.2/36

Out: -9.318+/-0.012 $\chi^2$/NDF:102406.8/41

All: -9.454+/-0.008 $\chi^2$/NDF: 165356.0/78


reg_asym_usr_atr2_avg_diff_bpm1X_slope vs Slug, Sign Corrected
−50
−100
−150
−200
−250
−300
−350
−400
−450
100
110
120
130
140
150
160
170
180
Right In: -262.643+/-1.614 χ2/NDF: 1454.3/15
Left Out: -237.463+/-1.199 χ2/NDF:2808.5/22
Right Out: -241.548+/-1.506 χ2/NDF: 2138.6/18
Left In: -246.549+/-1.257 χ2/NDF:1754.8/20
Left: -241.790+/-0.868 χ2/NDF: 4590.7/43
Right: -251.368+/-1.101 χ2/NDF: 3684.2/34
In: -252.629+/-0.992 χ2/NDF:3271.0/36
Out: -239.048+/-0.938 χ2/NDF:4951.6/41
All: -245.460+/-0.682 χ2/NDF: 8321.5/78




Right In: 8.320+/-1.644 $\chi^2$/NDF: 157.6/15

Left Out: 2.767+/-0.860 $\chi^2$/NDF:920.7/22

Right Out: 10.052+/-1.539 $\chi^2$/NDF: 187.4/18

Left In: 1.851+/-0.900 $\chi^2$/NDF:621.3/20

Left: 2.330+/-0.622 $\chi^2$/NDF: 1542.5/43

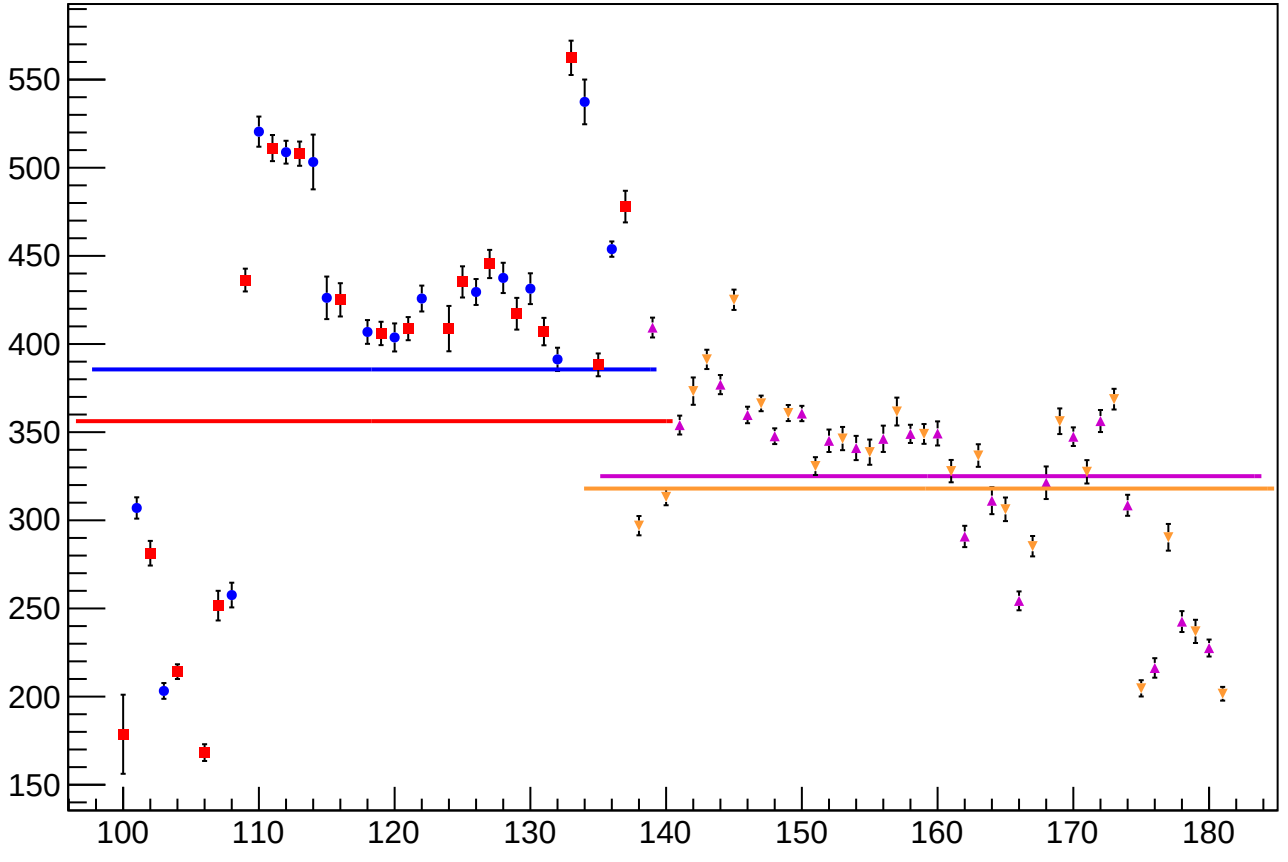
Right: 9.243+/-1.123 $\chi^2$/NDF: 345.7/34

In: 3.342+/-0.789 $\chi^2$/NDF:790.8/36

Out: 4.499+/-0.750 $\chi^2$/NDF:1125.2/41

All: 3.950+/-0.544 $\chi^2$/NDF: 1917.2/78

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 385.590+/-1.742 $\chi^2$/NDF: 3373.1/15

Left Out: 318.014+/-1.185 $\chi^2$/NDF:2701.7/22

Right Out: 356.245+/-1.647 $\chi^2$/NDF: 5270.3/18

Left In: 325.042+/-1.234 $\chi^2$/NDF:1801.2/20

Left: 321.386+/-0.855 $\chi^2$/NDF: 4519.8/43

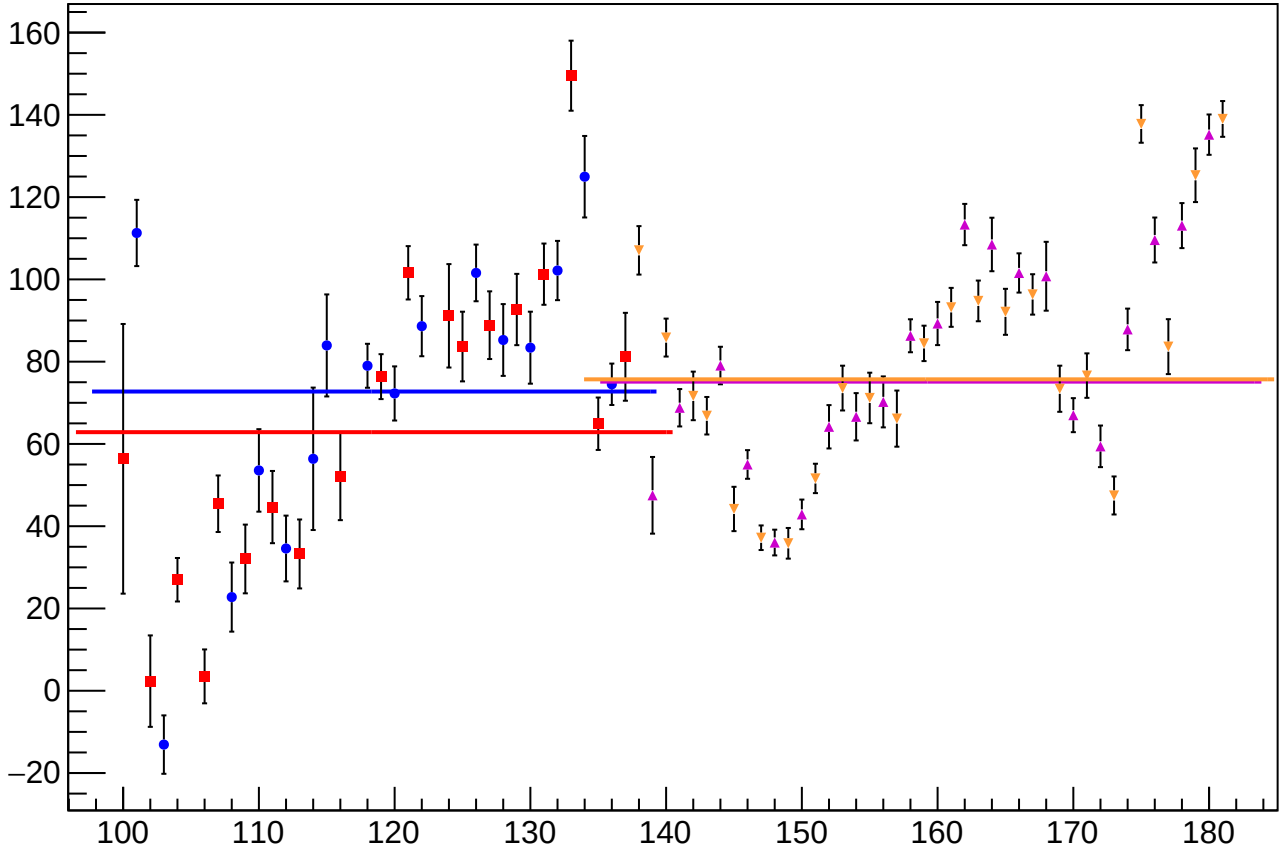
Right: 370.089+/-1.197 $\chi^2$/NDF: 8793.2/34

In: 345.274+/-1.007 $\chi^2$/NDF:5978.4/36

Out: 331.060+/-0.962 $\chi^2$/NDF:8327.1/41

All: 337.840+/-0.696 $\chi^2$/NDF: 14409.8/78

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 72.740+/-1.897 $\chi^2$/NDF: 304.3/15

Left Out: 75.704+/-0.998 $\chi^2$/NDF:951.6/22

Right Out: 62.863+/-1.795 $\chi^2$/NDF: 403.6/18

Left In: 75.146+/-1.039 $\chi^2$/NDF:685.4/20

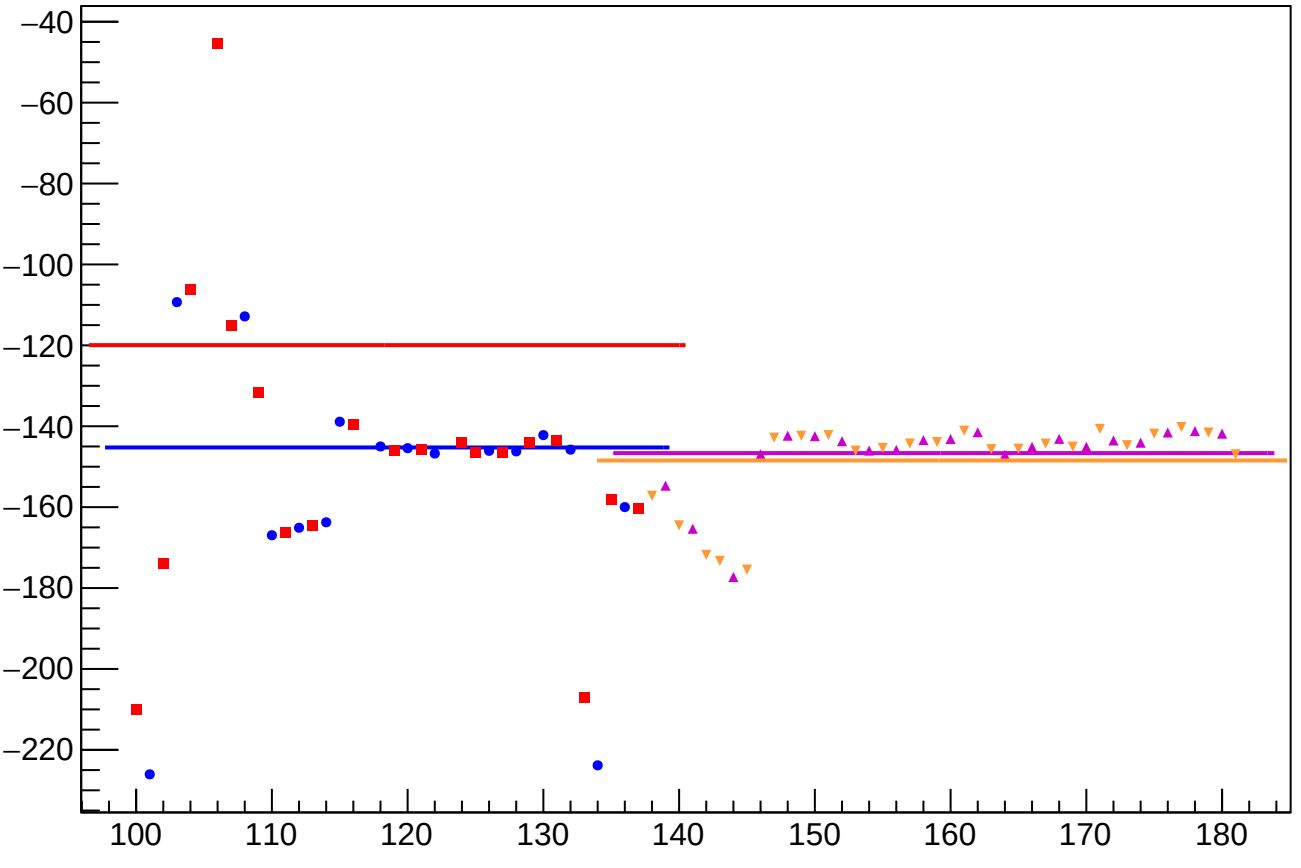
Left: 75.436+/-0.720 $\chi^2$/NDF: 1637.2/43

Right: 67.528+/-1.304 $\chi^2$/NDF: 722.2/34

In: 74.591+/-0.911 $\chi^2$/NDF:991.0/36

Out: 72.670+/-0.872 $\chi^2$/NDF:1394.3/41

All: 73.589+/-0.630 $\chi^2$/NDF: 2387.6/78




Right In: -145.246+/-0.098 $\chi^2$/NDF: 132057.3/15

Left Out: -148.460+/-0.047 $\chi^2$/NDF:48306.1/22

Right Out: -119.947+/-0.089 $\chi^2$/NDF: 270354.1/18

Left In: -146.637+/-0.048 $\chi^2$/NDF:29029.3/20

Left: -147.562+/-0.033 $\chi^2$/NDF: 78079.9/43

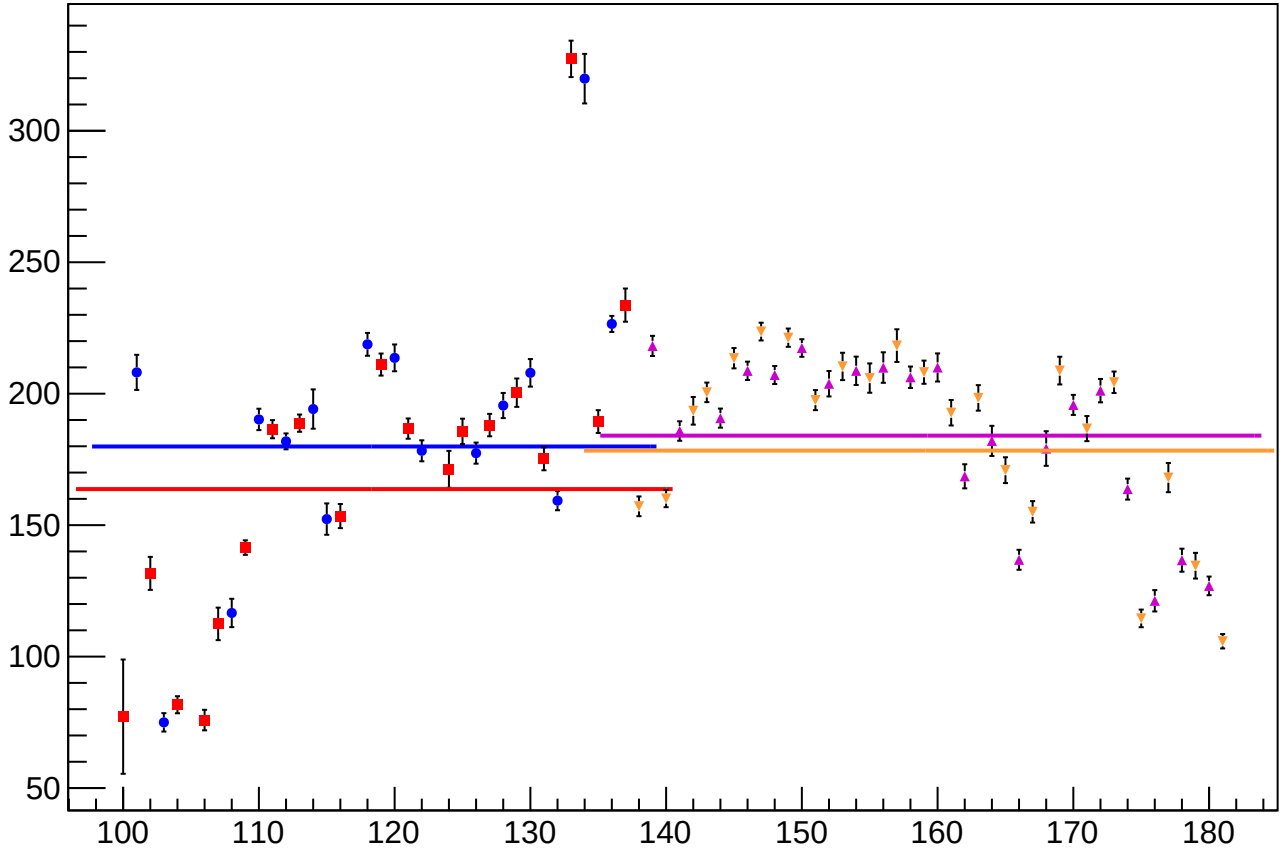
Right: -131.335+/-0.066 $\chi^2$/NDF: 438808.7/34

In: -146.373+/-0.043 $\chi^2$/NDF:161248.6/36

Out: -142.265+/-0.041 $\chi^2$/NDF:399049.3/41

All: -144.252+/-0.030 $\chi^2$/NDF: 565046.5/78

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 179.918+/-1.089 $\chi^2$/NDF: 1732.7/15

Left Out: 178.363+/-0.861 $\chi^2$/NDF:1981.5/22

Right Out: 163.718+/-1.001 $\chi^2$/NDF: 2416.8/18

Left In: 184.048+/-0.905 $\chi^2$/NDF:1222.0/20

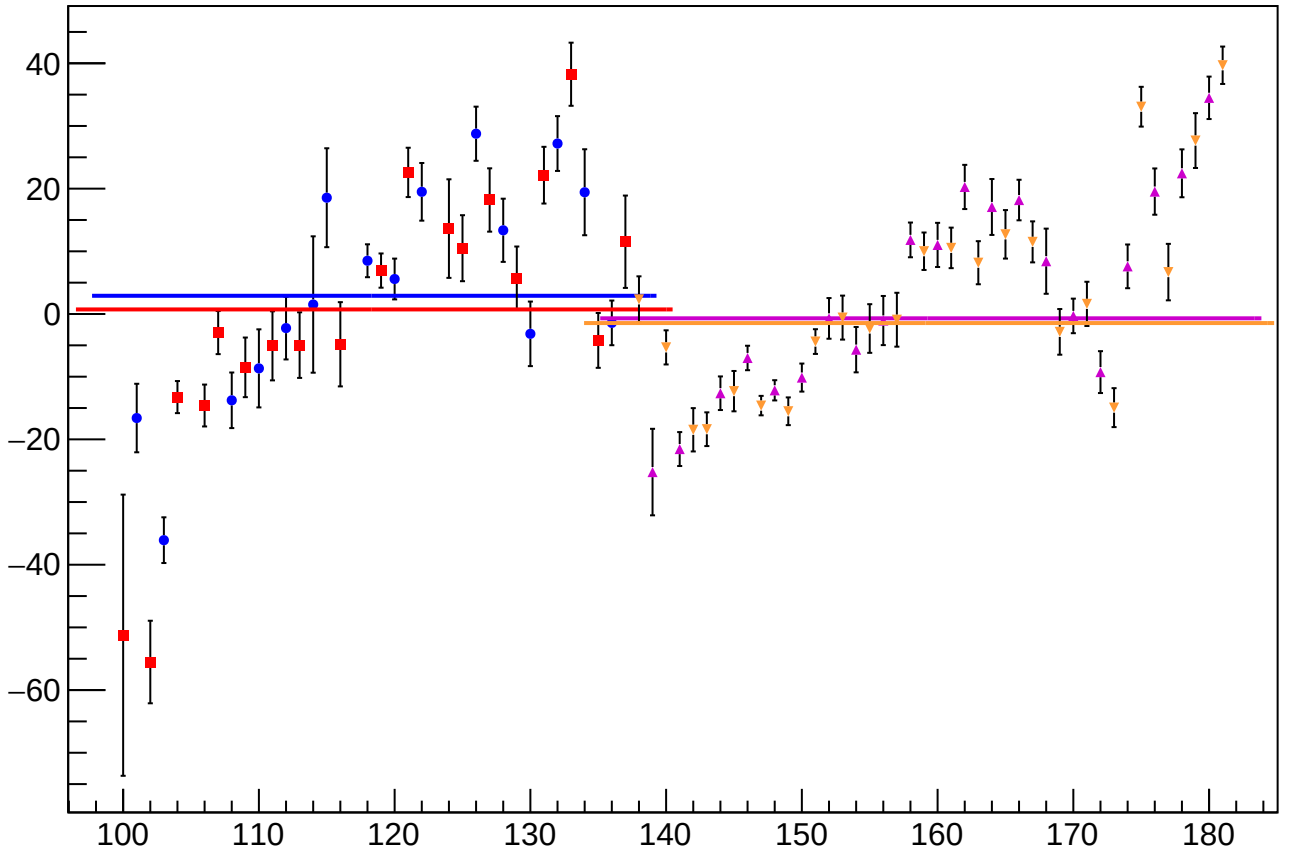
Left: 181.065+/-0.624 $\chi^2$/NDF: 3224.1/43

Right: 171.138+/-0.737 $\chi^2$/NDF: 4269.5/34

In: 182.360+/-0.696 $\chi^2$/NDF:2963.1/36

Out: 172.130+/-0.653 $\chi^2$/NDF:4521.3/41

All: 176.918+/-0.476 $\chi^2$/NDF: 7599.3/78




Right In: 2.907+/-1.105 $\chi^2$/NDF: 247.5/15

Left Out: -1.445+/-0.617 $\chi^2$/NDF:634.2/22

Right Out: 0.729+/-1.012 $\chi^2$/NDF: 273.6/18

Left In: -0.688+/-0.647 $\chi^2$/NDF:479.5/20

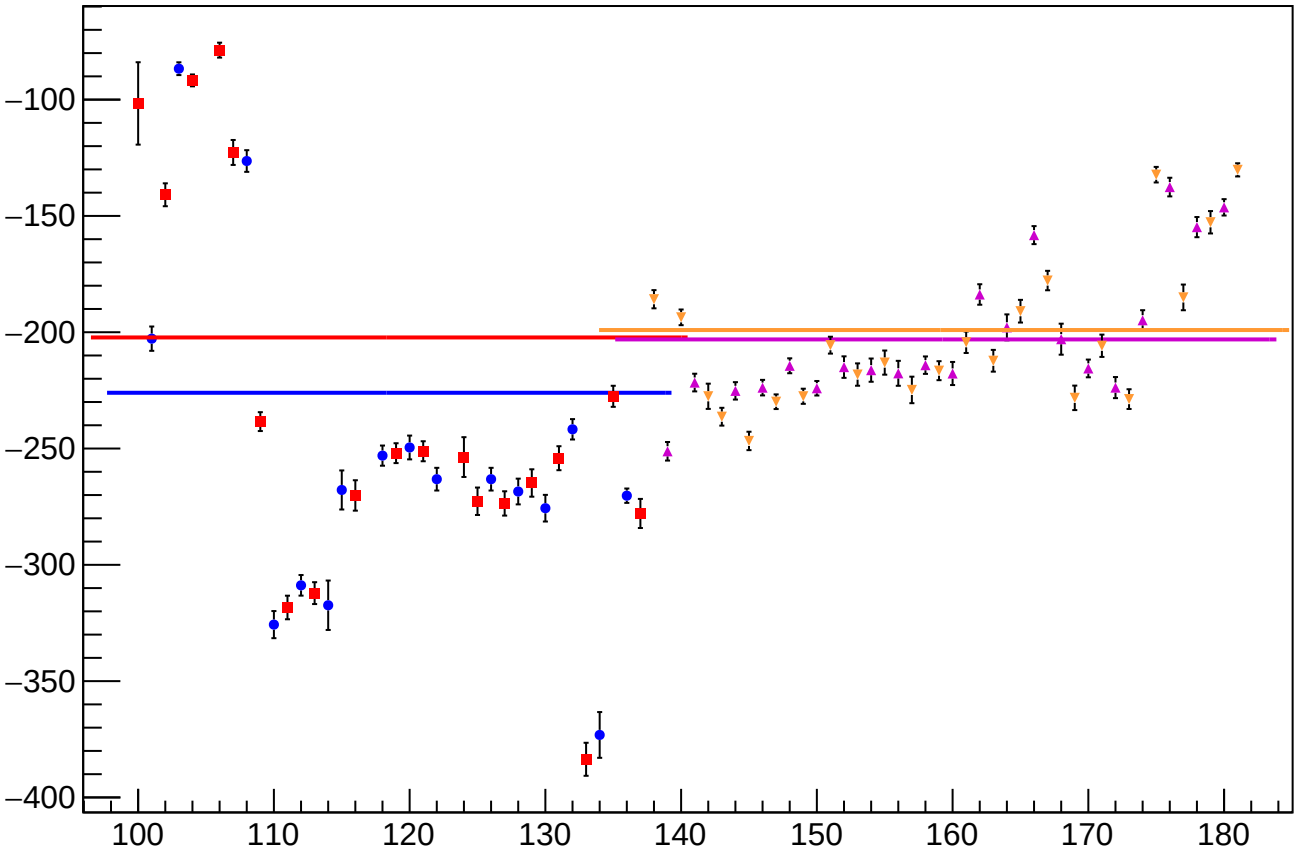
Left: -1.085+/-0.446 $\chi^2$/NDF: 1114.4/43

Right: 1.723+/-0.746 $\chi^2$/NDF: 523.2/34

In: 0.231+/-0.559 $\chi^2$/NDF:734.9/36

Out: -0.857+/-0.527 $\chi^2$/NDF:911.2/41

All: -0.345+/-0.383 $\chi^2$/NDF: 1648.1/78




Right In: -226.028+/-1.175 $\chi^2$/NDF: 4539.0/15

Left Out: -199.056+/-0.852 $\chi^2$/NDF:1725.3/22

Right Out: -202.247+/-1.087 $\chi^2$/NDF: 6690.8/18

Left In: -203.096+/-0.889 $\chi^2$/NDF:1179.1/20

Left: -200.990+/-0.615 $\chi^2$/NDF: 2915.2/43

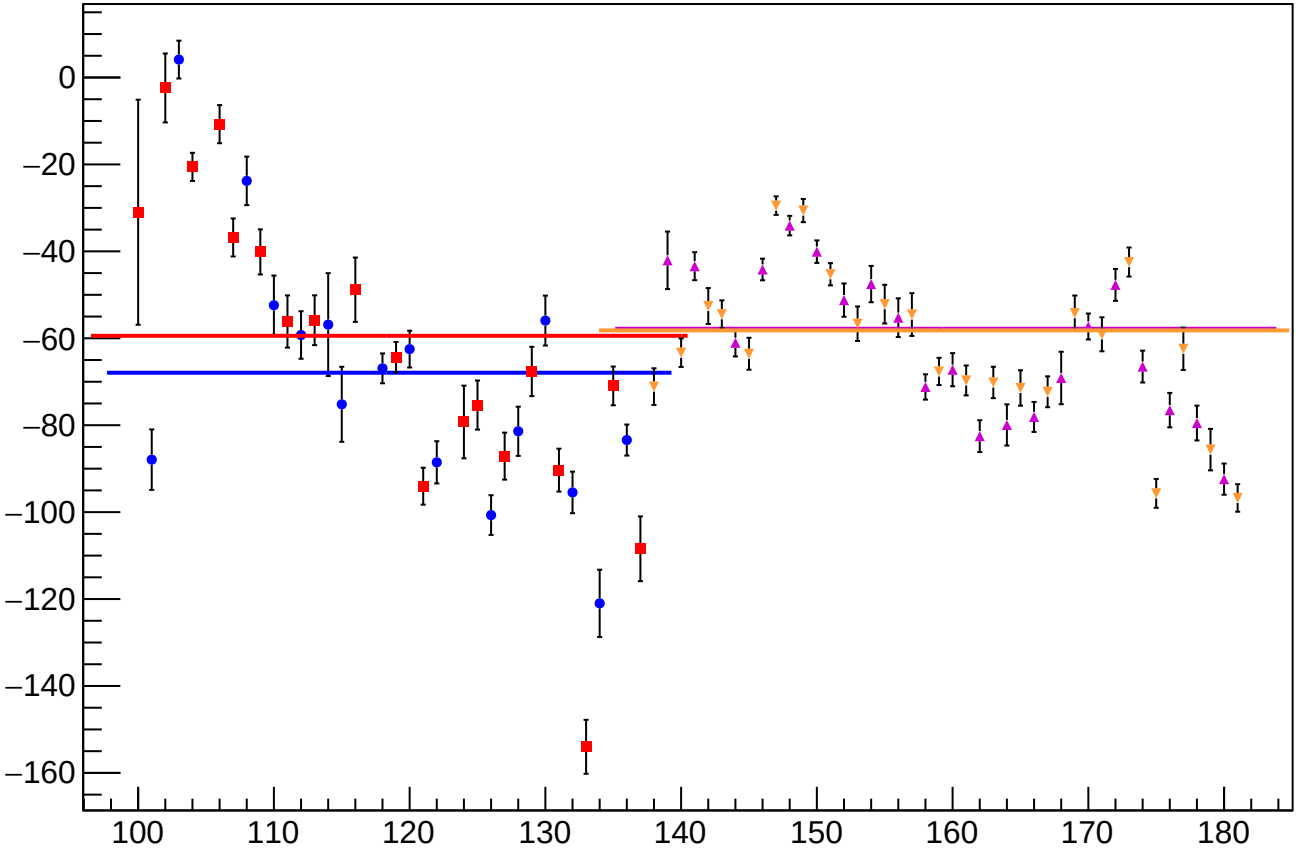
Right: -213.214+/-0.798 $\chi^2$/NDF: 11450.5/34

In: -211.441+/-0.709 $\chi^2$/NDF:5960.5/36

Out: -200.270+/-0.670 $\chi^2$/NDF:8421.4/41

All: -205.545+/-0.487 $\chi^2$/NDF: 14513.0/78

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -67.927+/-1.278 $\chi^2$/NDF: 534.0/15

Left Out: -58.188+/-0.717 $\chi^2$/NDF:725.0/22

Right Out: -59.428+/-1.184 $\chi^2$/NDF: 794.9/18

Left In: -57.811+/-0.748 $\chi^2$/NDF:515.4/20

Left: -58.007+/-0.518 $\chi^2$/NDF: 1240.5/43

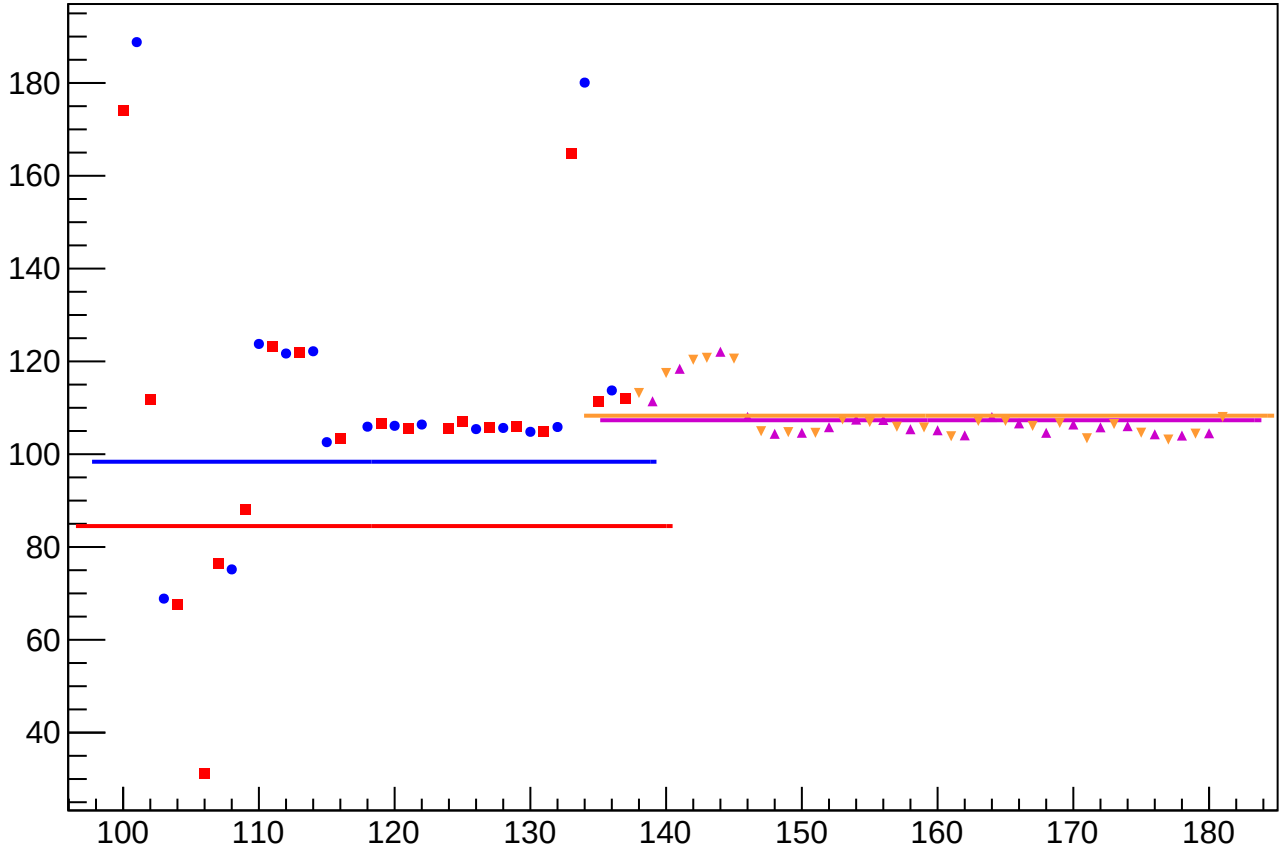
Right: -63.353+/-0.869 $\chi^2$/NDF: 1352.7/34

In: -60.392+/-0.646 $\chi^2$/NDF:1096.1/36

Out: -58.520+/-0.613 $\chi^2$/NDF:1520.6/41

All: -59.408+/-0.445 $\chi^2$/NDF: 2621.1/78

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 98.377+/-0.066 $\chi^2$/NDF: 228419.7/15

Left Out: 108.299+/-0.034 $\chi^2$/NDF:26064.5/22

Right Out: 84.512+/-0.061 $\chi^2$/NDF: 268911.0/18

Left In: 107.319+/-0.034 $\chi^2$/NDF:16773.6/20

Left: 107.818+/-0.024 $\chi^2$/NDF: 43253.2/43

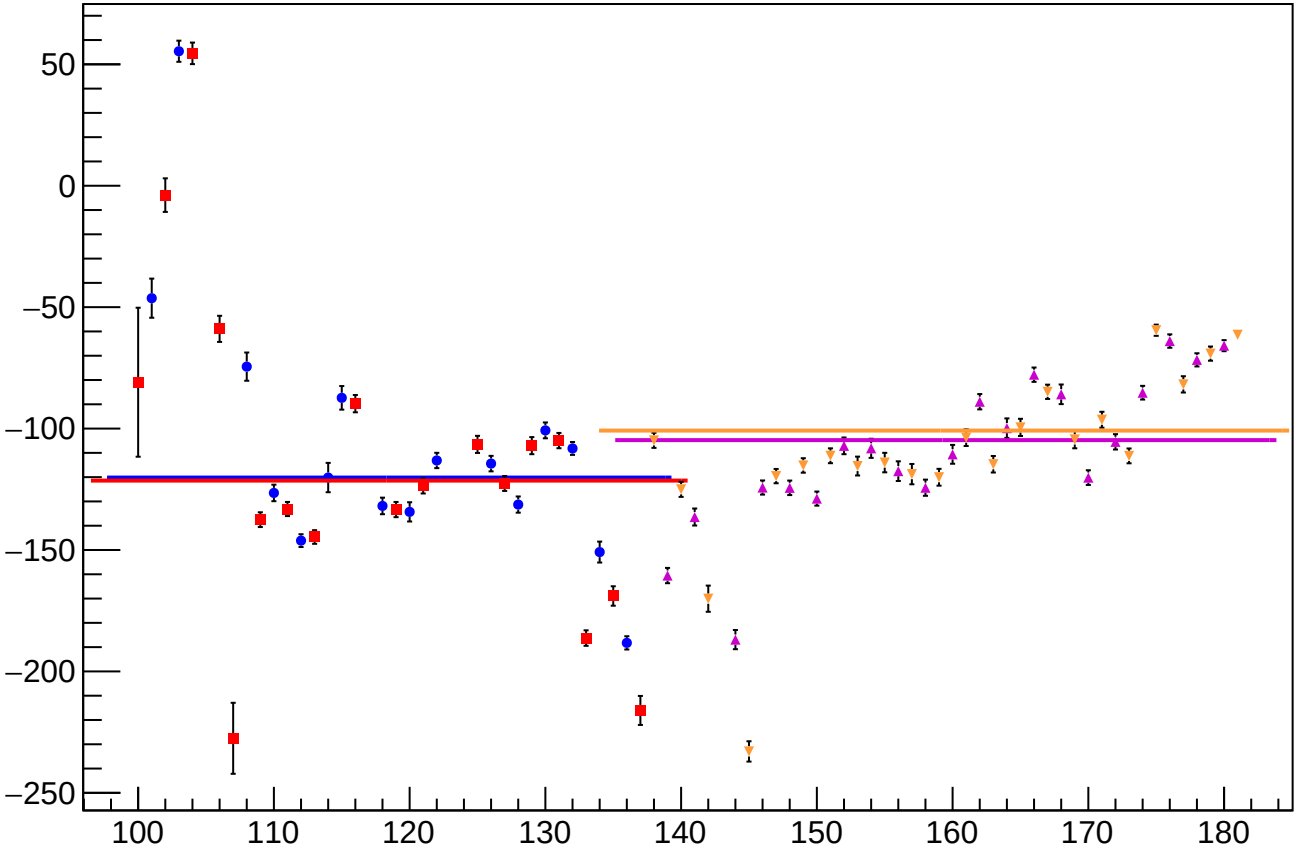
Right: 90.854+/-0.045 $\chi^2$/NDF: 521250.8/34

In: 105.420+/-0.030 $\chi^2$/NDF:259634.7/36

Out: 102.681+/-0.029 $\chi^2$/NDF:412545.3/41

All: 104.006+/-0.021 $\chi^2$/NDF: 676362.6/78

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -120.177+/-0.891 $\chi^2$/NDF: 2691.2/15

Left Out: -100.817+/-0.678 $\chi^2$/NDF:2276.9/21

Right Out: -121.418+/-0.875 $\chi^2$/NDF: 3126.3/17

Left In: -104.755+/-0.691 $\chi^2$/NDF:1896.9/20

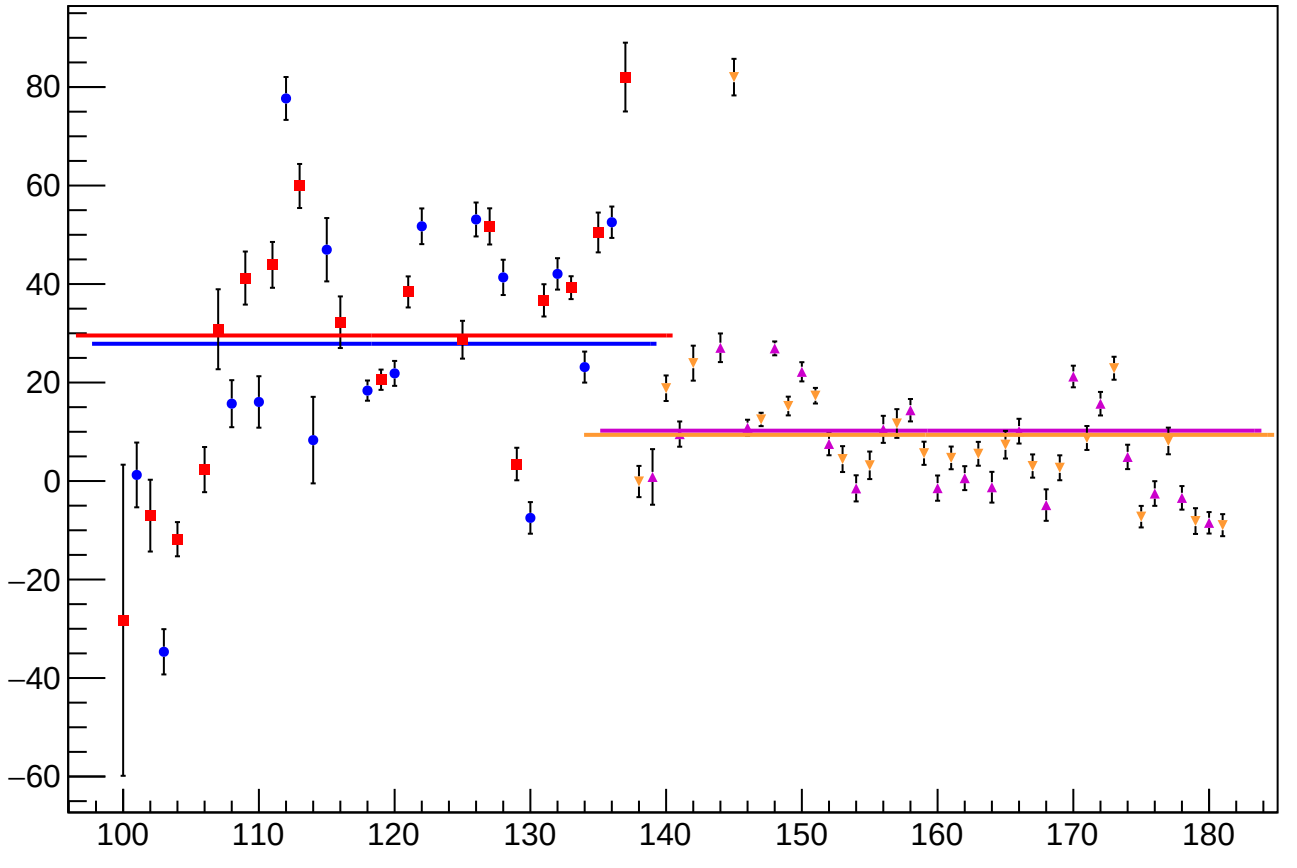
Left: -102.748+/-0.484 $\chi^2$/NDF: 4190.4/42

Right: -120.808+/-0.624 $\chi^2$/NDF: 5818.5/33

In: -110.549+/-0.546 $\chi^2$/NDF:4775.4/36

Out: -108.539+/-0.536 $\chi^2$/NDF:5749.5/39

All: -109.526+/-0.382 $\chi^2$/NDF: 10531.8/76




Right In: 27.872+/-0.888 $\chi^2$/NDF: 699.6/15

Left Out: 9.378+/-0.497 $\chi^2$/NDF:698.0/21

Right Out: 29.553+/-0.890 $\chi^2$/NDF: 497.5/17

Left In: 10.224+/-0.508 $\chi^2$/NDF:478.3/20

Left: 9.791+/-0.355 $\chi^2$/NDF: 1177.7/42

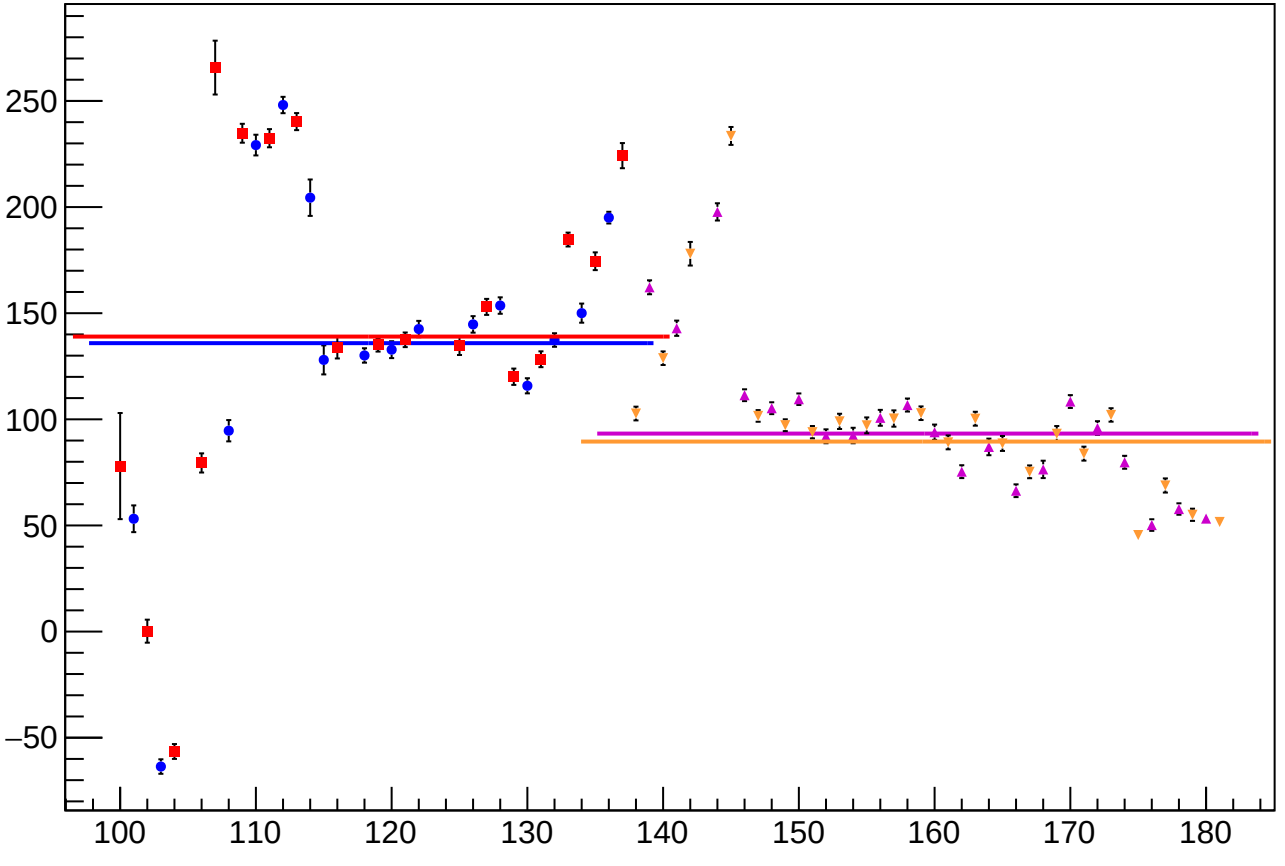
Right: 28.711+/-0.629 $\chi^2$/NDF: 1198.9/33

In: 14.574+/-0.441 $\chi^2$/NDF:1475.4/36

Out: 14.170+/-0.434 $\chi^2$/NDF:1587.6/39

All: 14.368+/-0.309 $\chi^2$/NDF: 3063.4/76

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 135.883+/-0.999 $\chi^2$/NDF: 5463.6/15

Left Out: 89.523+/-0.668 $\chi^2$/NDF:2571.9/21

Right Out: 138.985+/-0.998 $\chi^2$/NDF: 6156.4/17

Left In: 93.282+/-0.679 $\chi^2$/NDF:2328.4/20

Left: 91.372+/-0.476 $\chi^2$/NDF: 4915.9/42

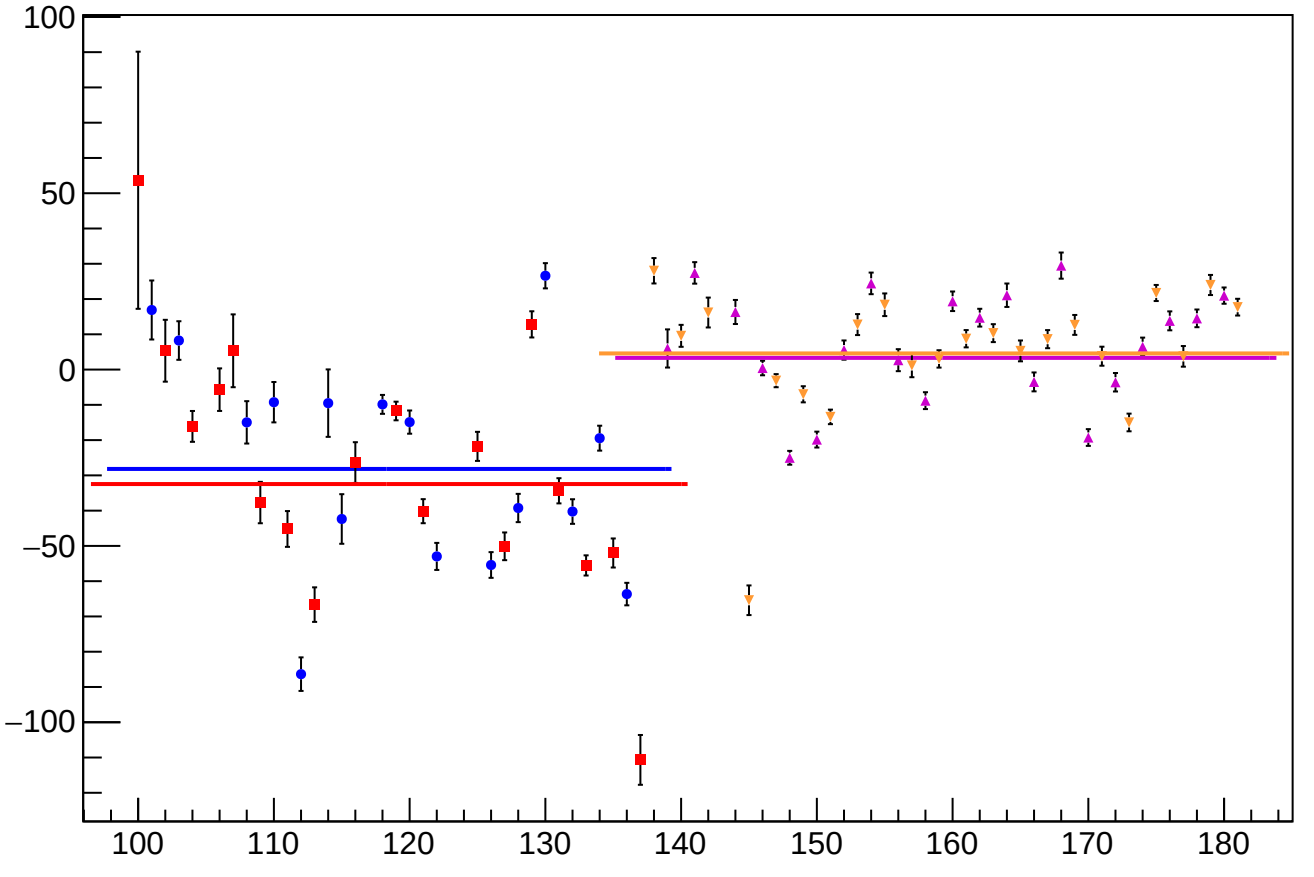
Right: 137.434+/-0.706 $\chi^2$/NDF: 11624.9/33

In: 106.745+/-0.561 $\chi^2$/NDF:9037.0/36

Out: 104.818+/-0.555 $\chi^2$/NDF:10424.1/39

All: 105.771+/-0.395 $\chi^2$/NDF: 19467.1/76

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -28.175+/-1.022 $\chi^2$/NDF: 791.2/15

Left Out: 4.577+/-0.569 $\chi^2$/NDF:689.8/21

Right Out: -32.459+/-1.027 $\chi^2$/NDF: 580.8/17

Left In: 3.318+/-0.579 $\chi^2$/NDF:799.2/20

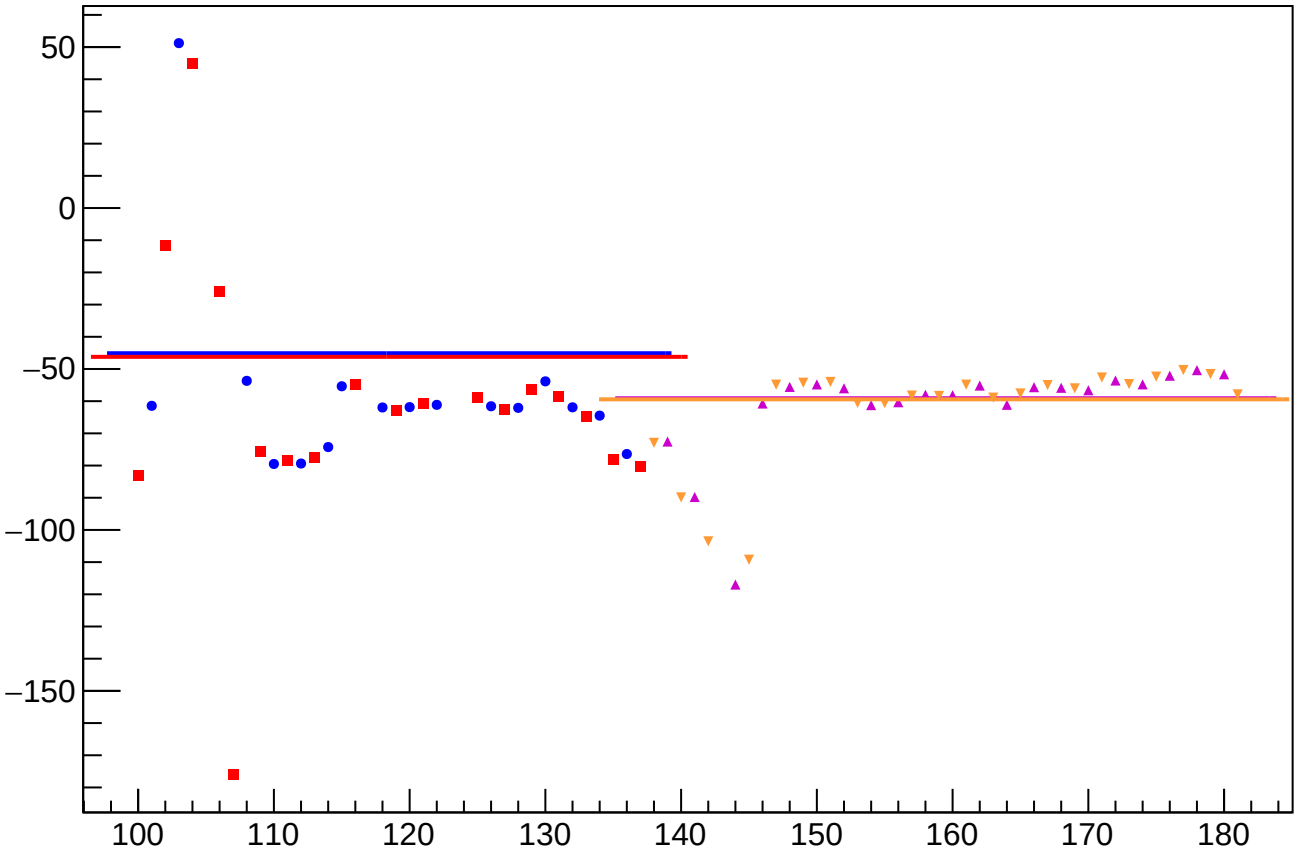
Left: 3.959+/-0.406 $\chi^2$/NDF: 1491.4/42

Right: -30.307+/-0.725 $\chi^2$/NDF: 1380.8/33

In: -4.329+/-0.504 $\chi^2$/NDF:2309.1/36

Out: -4.107+/-0.497 $\chi^2$/NDF:2265.5/39

All: -4.216+/-0.354 $\chi^2$/NDF: 4574.6/76




Right In: -45.106+/-0.060 $\chi^2$/NDF: 575184.2/15

Left Out: -59.425+/-0.026 $\chi^2$/NDF:213369.5/21

Right Out: -46.229+/-0.063 $\chi^2$/NDF: 493616.3/17

Left In: -59.094+/-0.026 $\chi^2$/NDF:182467.7/20

Left: -59.259+/-0.018 $\chi^2$/NDF: 395918.3/42

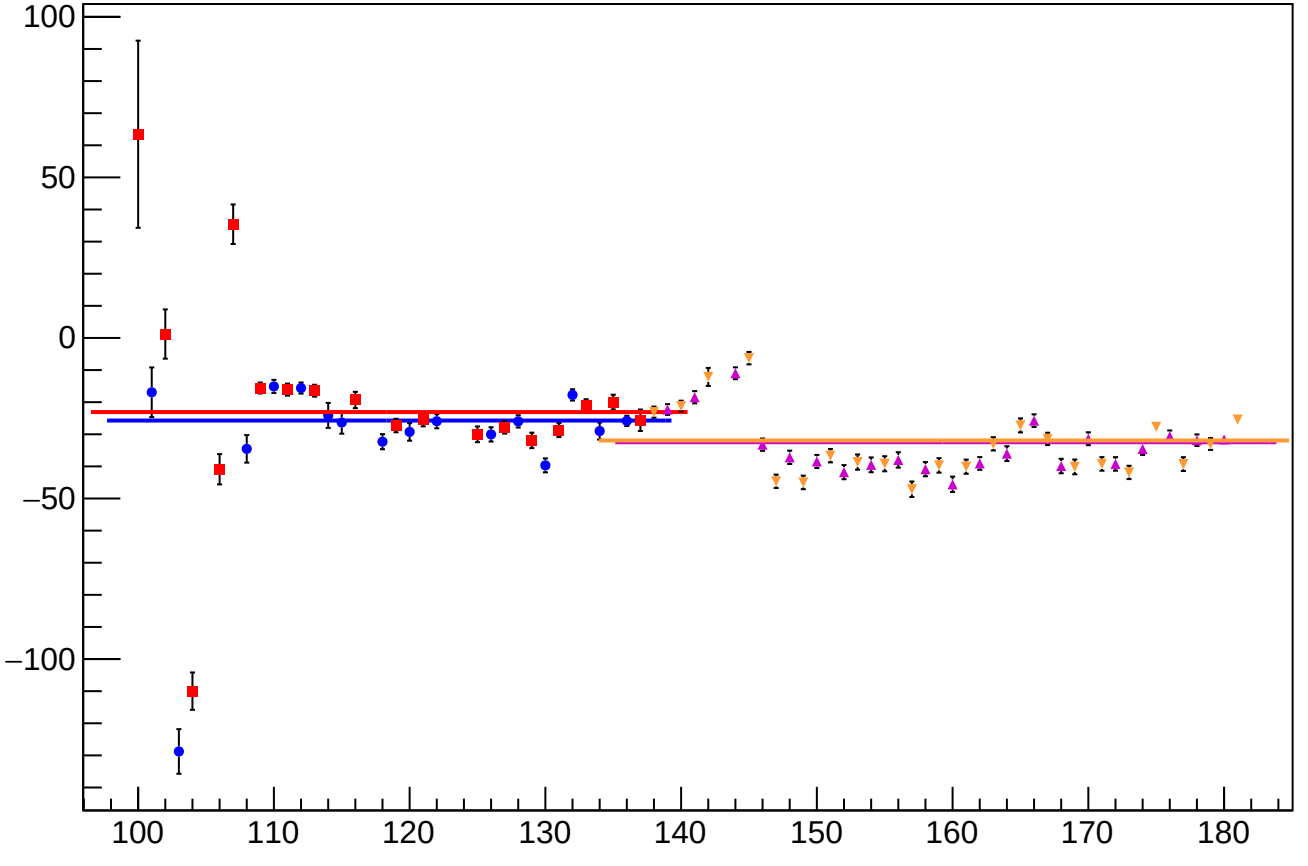
Right: -45.645+/-0.043 $\chi^2$/NDF: 1068967.9/33

In: -56.882+/-0.024 $\chi^2$/NDF:803205.0/36

Out: -57.473+/-0.024 $\chi^2$/NDF:744866.6/39

All: -57.175+/-0.017 $\chi^2$/NDF: 1548374.7/76

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -25.721+/-0.590 $\chi^2$/NDF: 363.0/15

Left Out: -31.931+/-0.424 $\chi^2$/NDF:550.7/21

Right Out: -23.079+/-0.582 $\chi^2$/NDF: 437.1/17

Left In: -32.473+/-0.433 $\chi^2$/NDF:364.3/20

Left: -32.196+/-0.303 $\chi^2$/NDF: 915.8/42

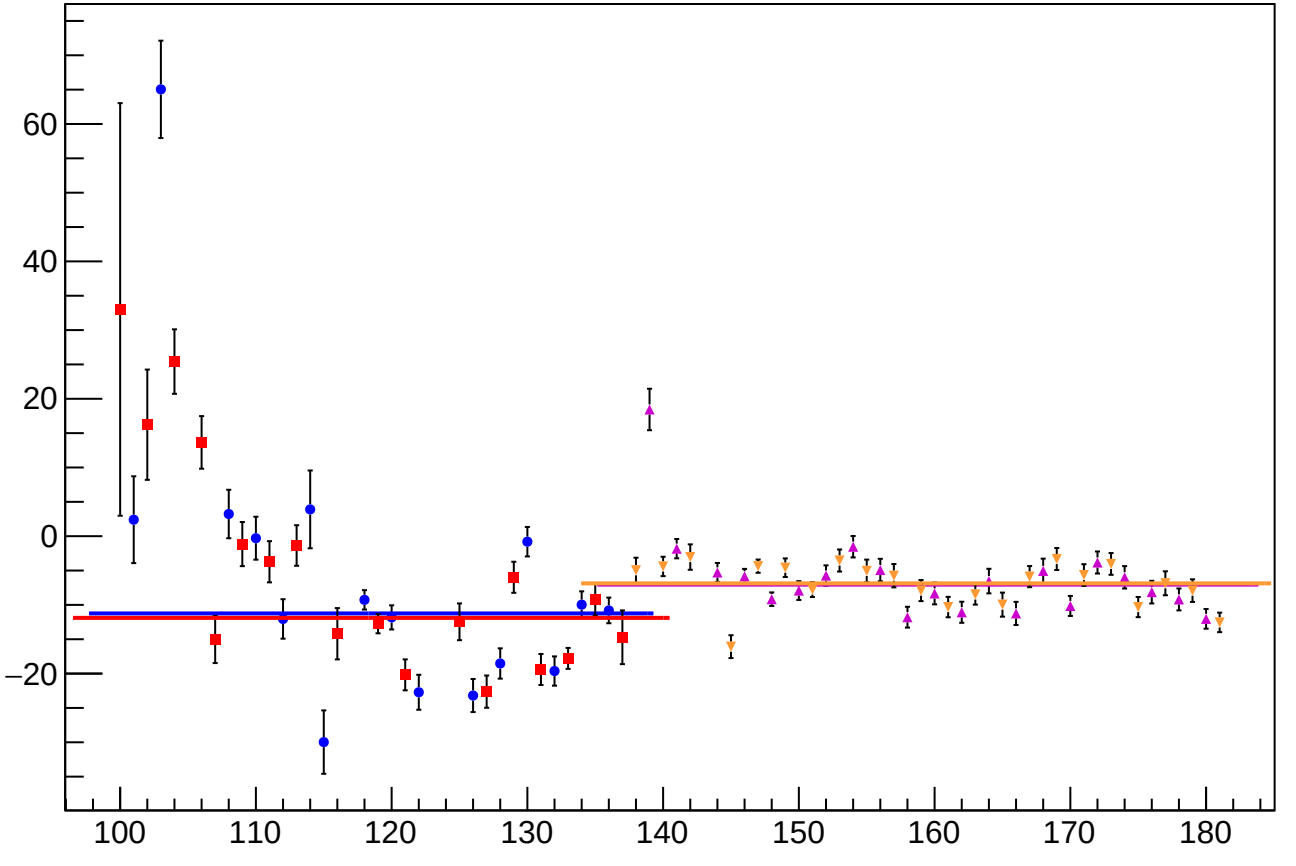
Right: -24.381+/-0.414 $\chi^2$/NDF: 810.3/33

In: -30.109+/-0.349 $\chi^2$/NDF:812.3/36

Out: -28.865+/-0.342 $\chi^2$/NDF:1139.1/39

All: -29.475+/-0.244 $\chi^2$/NDF: 1957.9/76

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -11.246+/-0.600 $\chi^2$/NDF: 271.1/15

Left Out: -6.868+/-0.317 $\chi^2$/NDF:96.5/21

Right Out: -11.890+/-0.607 $\chi^2$/NDF: 224.5/17

Left In: -7.055+/-0.324 $\chi^2$/NDF:156.3/20

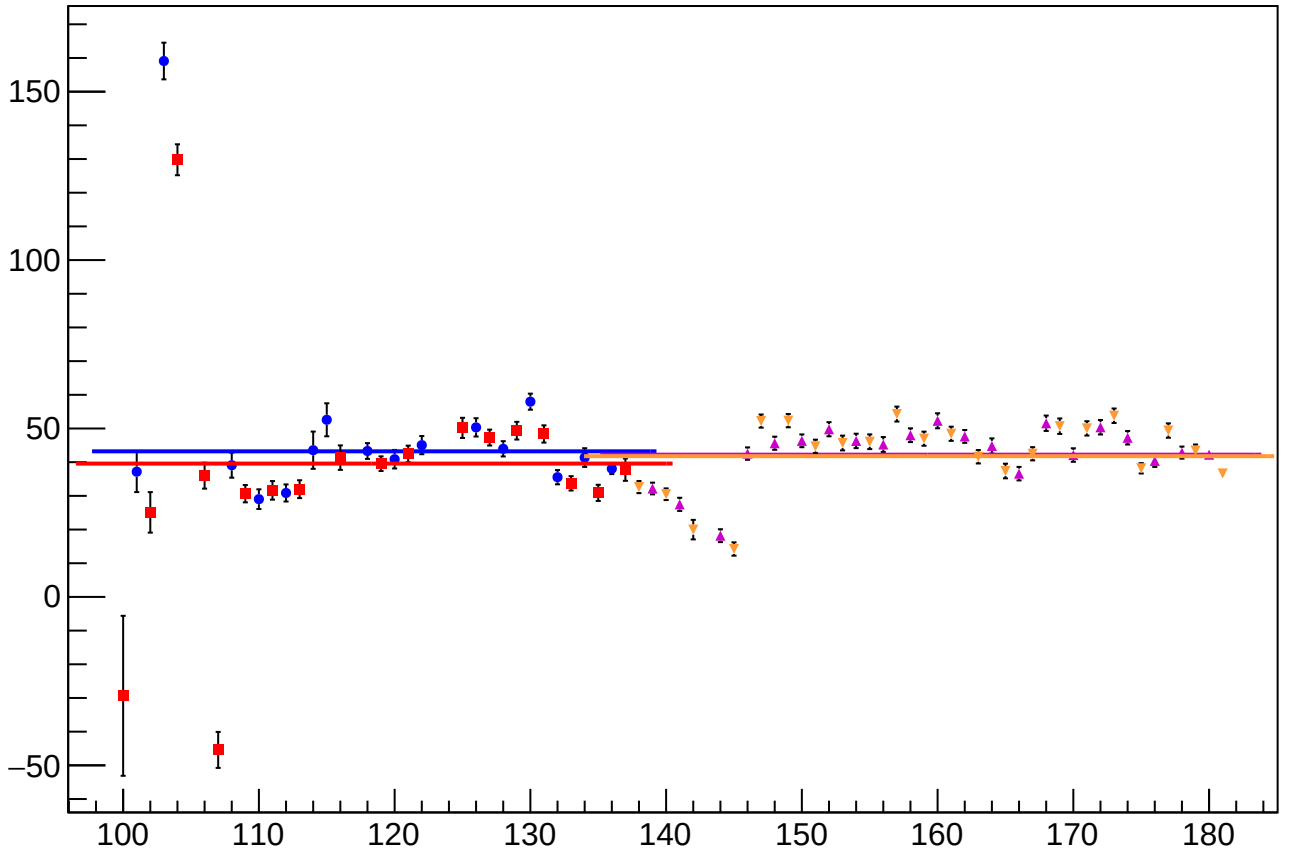
Left: -6.960+/-0.227 $\chi^2$/NDF: 253.0/42

Right: -11.564+/-0.427 $\chi^2$/NDF: 496.1/33

In: -8.003+/-0.285 $\chi^2$/NDF:465.2/36

Out: -7.944+/-0.281 $\chi^2$/NDF:374.7/39

All: -7.973+/-0.200 $\chi^2$/NDF: 839.9/76




Right In: 43.222+/-0.678 $\chi^2$/NDF: 576.0/15

Left Out: 41.781+/-0.419 $\chi^2$/NDF:531.7/21

Right Out: 39.587+/-0.685 $\chi^2$/NDF: 754.0/17

Left In: 42.232+/-0.427 $\chi^2$/NDF:358.3/20

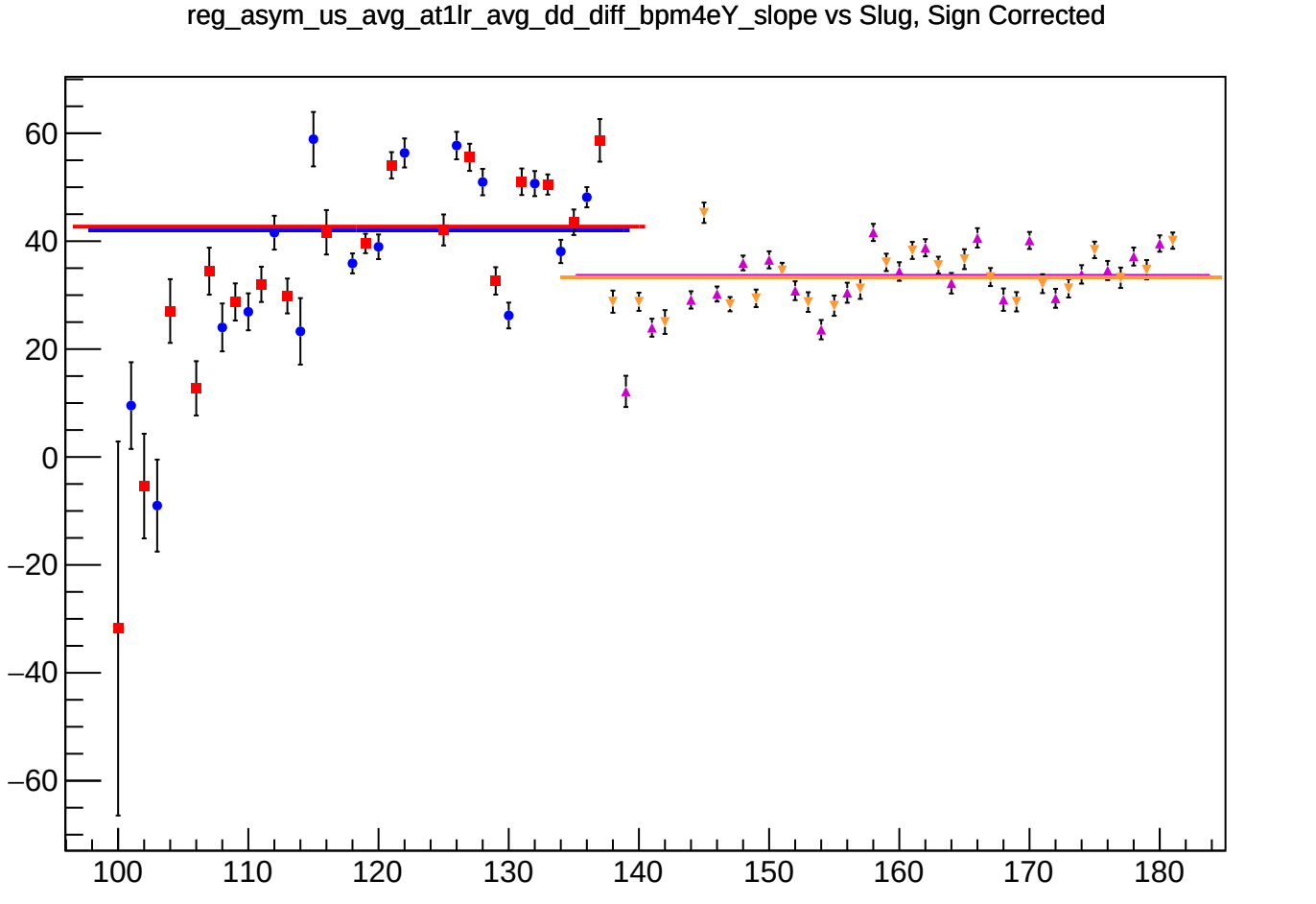
Left: 42.002+/-0.299 $\chi^2$/NDF: 890.5/42

Right: 41.422+/-0.482 $\chi^2$/NDF: 1344.2/33

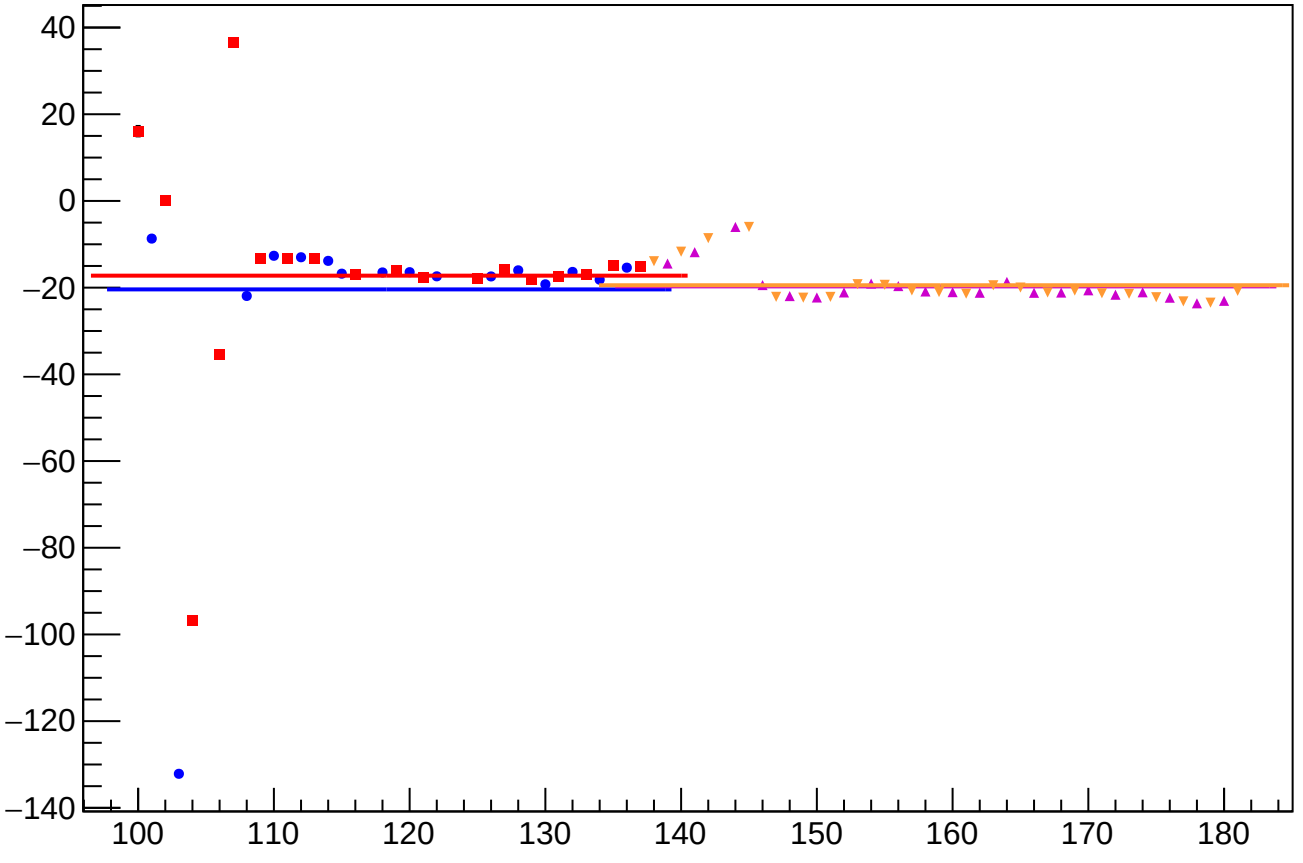
In: 42.513+/-0.361 $\chi^2$/NDF:935.8/36

Out: 41.184+/-0.357 $\chi^2$/NDF:1293.1/39

All: 41.841+/-0.254 $\chi^2$/NDF: 2235.8/76


reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
60
40
20
0
−20
−40
−60
100
110
120
130
140
150
160
170
180
Right In: 42.006+/-0.684 χ²/NDF: 272.7/15
Left Out: 33.298+/-0.361 χ²/NDF:161.2/21
Right Out: 42.696+/-0.695 χ²/NDF: 230.3/17
Left In: 33.567+/-0.368 χ²/NDF:244.8/20
Left: 33.430+/-0.258 χ²/NDF: 406.3/42
Right: 42.345+/-0.487 χ²/NDF: 503.5/33
In: 35.464+/-0.324 χ²/NDF:635.6/36
Out: 35.295+/-0.320 χ²/NDF:535.6/39
All: 35.379+/-0.228 χ²/NDF: 1171.4/76

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -20.405+/-0.042 $\chi^2$/NDF: 245611.9/15

Left Out: -19.449+/-0.016 $\chi^2$/NDF:68017.0/21

Right Out: -17.236+/-0.044 $\chi^2$/NDF: 204657.3/17

Left In: -19.712+/-0.016 $\chi^2$/NDF:53995.9/20

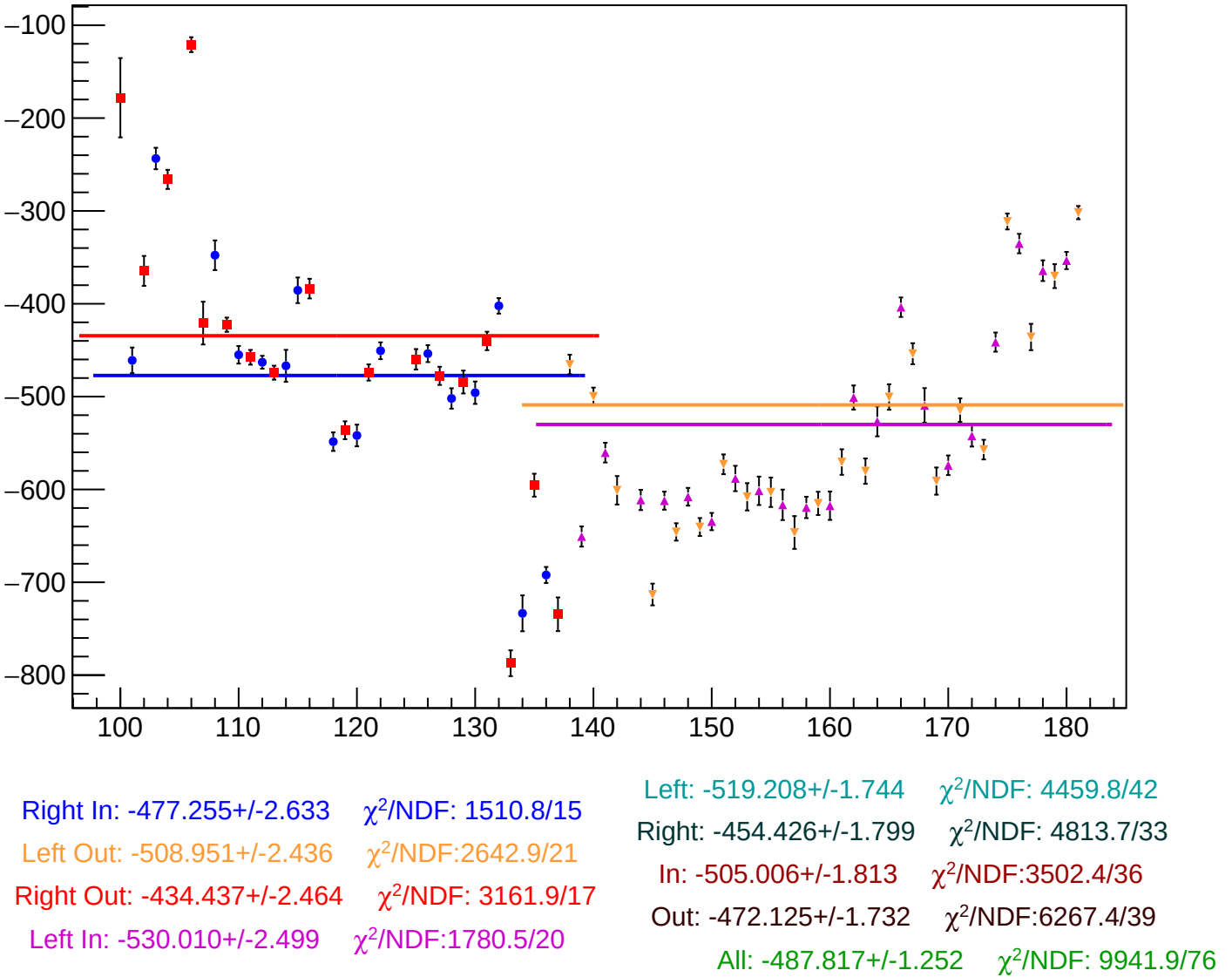
Left: -19.580+/-0.012 $\chi^2$/NDF: 122143.9/42

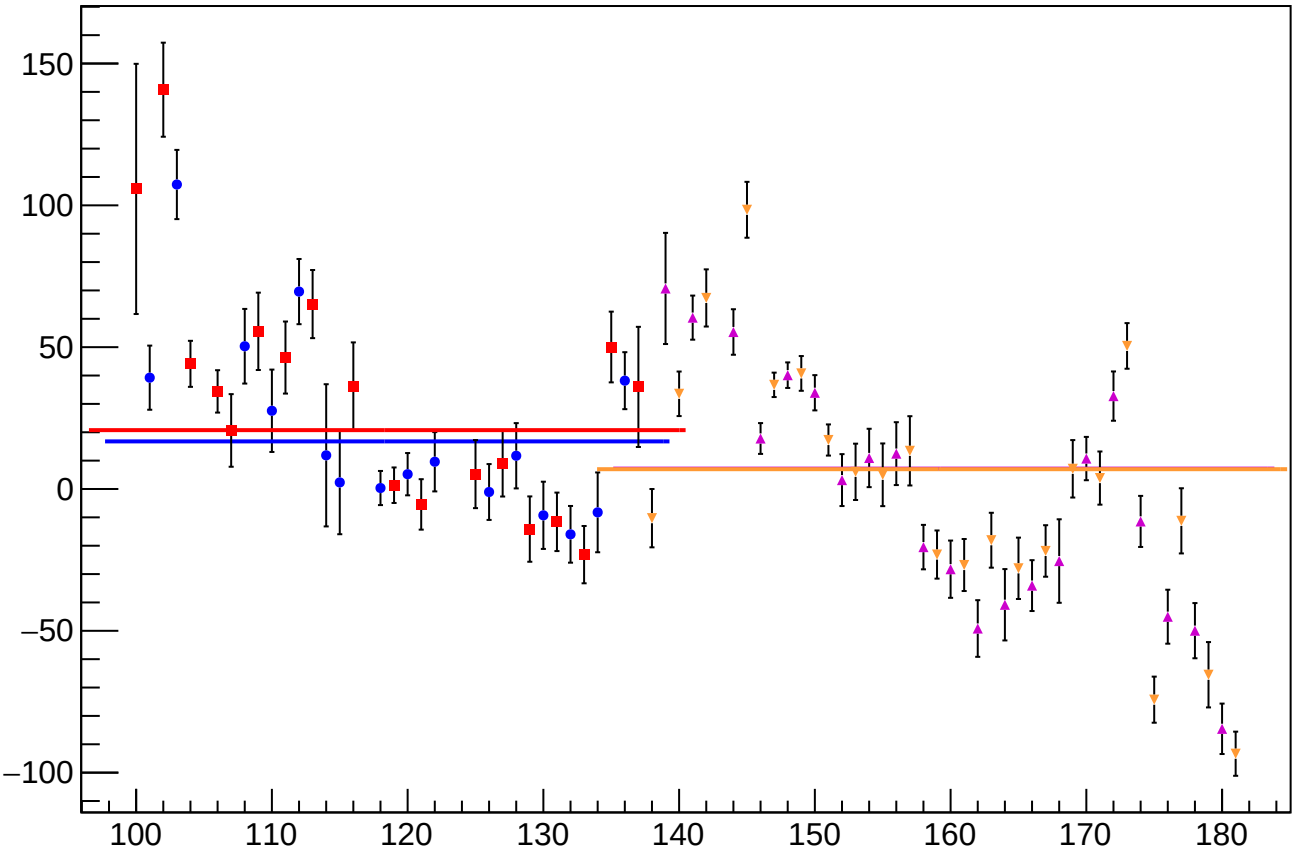
Right: -18.901+/-0.030 $\chi^2$/NDF: 452982.8/33

In: -19.804+/-0.015 $\chi^2$/NDF:299844.8/36

Out: -19.183+/-0.015 $\chi^2$/NDF:274889.9/39

All: -19.495+/-0.011 $\chi^2$/NDF: 575563.8/76


reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected
−100
−200
−300
−400
−500
−600
−700
−800
100
110
120
130
140
150
160
170
180
Right In: -477.255+/-2.633 χ²/NDF: 1510.8/15
Left Out: -508.951+/-2.436 χ²/NDF:2642.9/21
Right Out: -434.437+/-2.464 χ²/NDF: 3161.9/17
Left In: -530.010+/-2.499 χ²/NDF:1780.5/20
Left: -519.208+/-1.744 χ²/NDF: 4459.8/42
Right: -454.426+/-1.799 χ²/NDF: 4813.7/33
In: -505.006+/-1.813 χ²/NDF:3502.4/36
Out: -472.125+/-1.732 χ²/NDF:6267.4/39
All: -487.817+/-1.252 χ²/NDF: 9941.9/76




Right In: 16.780+/-2.654 $\chi^2$/NDF: 125.0/15

Left Out: 6.979+/-1.754 $\chi^2$/NDF:609.1/21

Right Out: 20.749+/-2.548 $\chi^2$/NDF: 157.9/17

Left In: 7.179+/-1.797 $\chi^2$/NDF:451.4/20

Left: 7.076+/-1.255 $\chi^2$/NDF: 1060.5/42

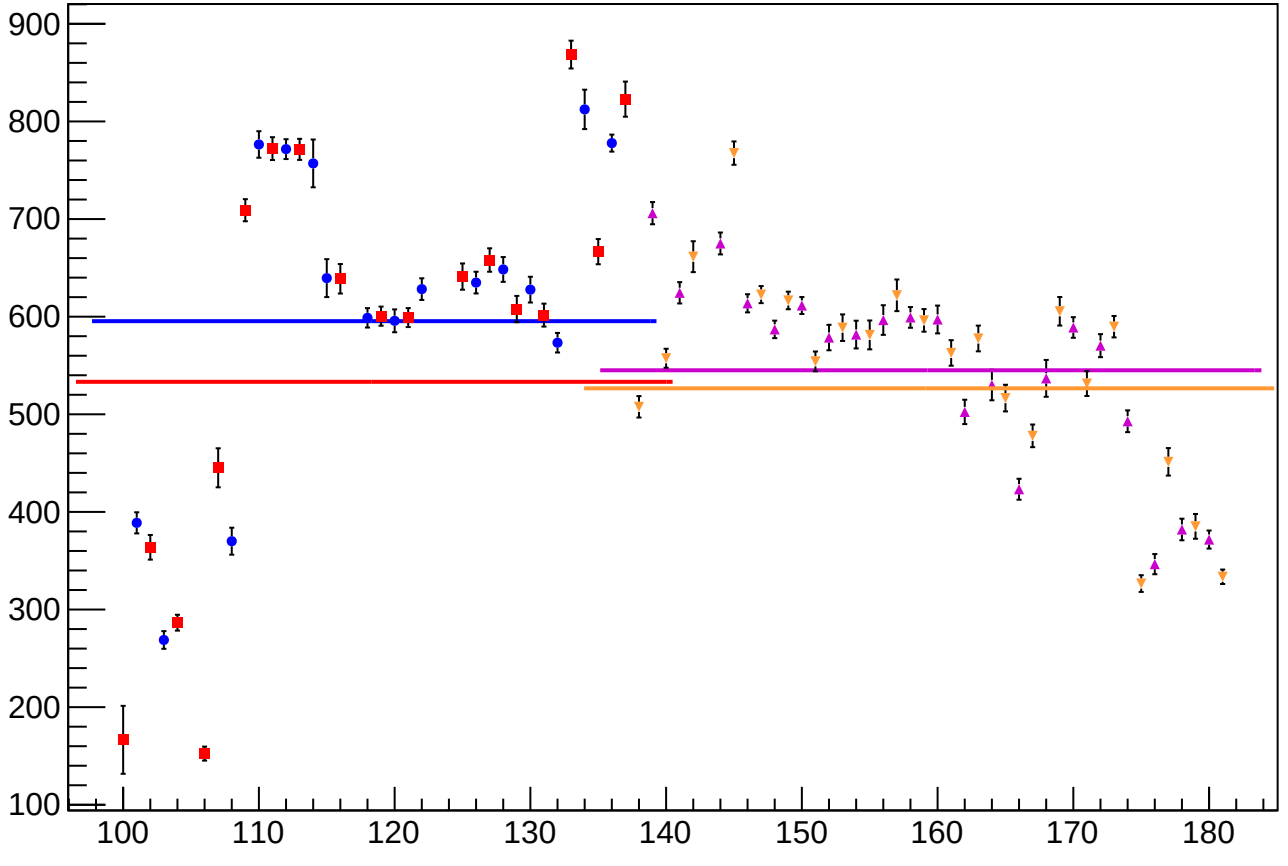
Right: 18.845+/-1.838 $\chi^2$/NDF: 284.1/33

In: 10.196+/-1.488 $\chi^2$/NDF:585.3/36

Out: 11.404+/-1.445 $\chi^2$/NDF:786.9/39

All: 10.818+/-1.036 $\chi^2$/NDF: 1372.5/76

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 595.406+/-2.930 $\chi^2$/NDF: 3059.7/15

Left Out: 526.600+/-2.405 $\chi^2$/NDF:2305.7/21

Right Out: 533.283+/-2.746 $\chi^2$/NDF: 6502.9/17

Left In: 545.092+/-2.456 $\chi^2$/NDF:1709.8/20

Left: 535.650+/-1.718 $\chi^2$/NDF: 4044.4/42

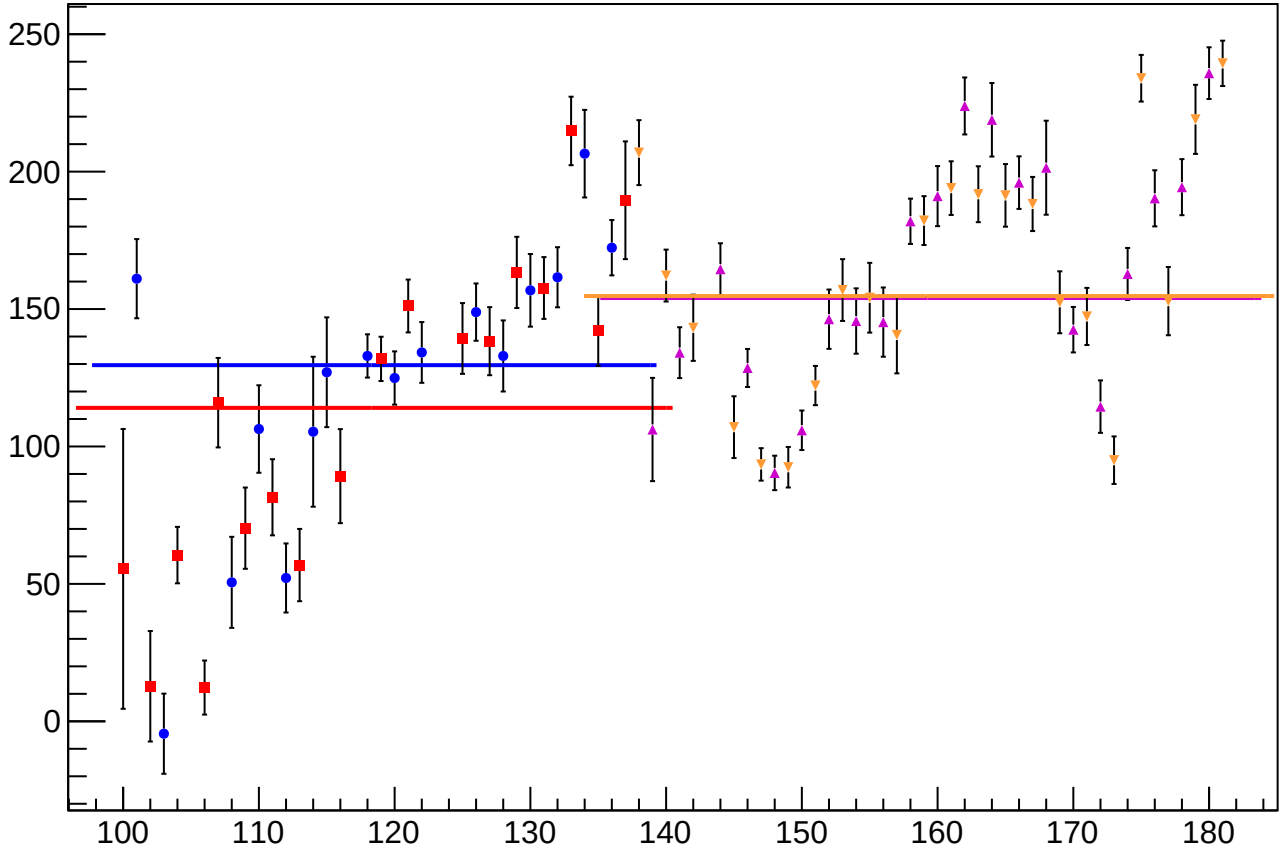
Right: 562.337+/-2.003 $\chi^2$/NDF: 9802.0/33

In: 565.862+/-1.882 $\chi^2$/NDF:4942.7/36

Out: 529.501+/-1.809 $\chi^2$/NDF:8811.9/39

All: 546.961+/-1.304 $\chi^2$/NDF: 13948.6/76

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 129.586+/-3.081 $\chi^2$/NDF: 211.2/15

Left Out: 154.728+/-2.034 $\chi^2$/NDF:567.5/21

Right Out: 114.048+/-2.976 $\chi^2$/NDF: 335.9/17

Left In: 154.007+/-2.072 $\chi^2$/NDF:417.9/20

Left: 154.374+/-1.451 $\chi^2$/NDF: 985.4/42

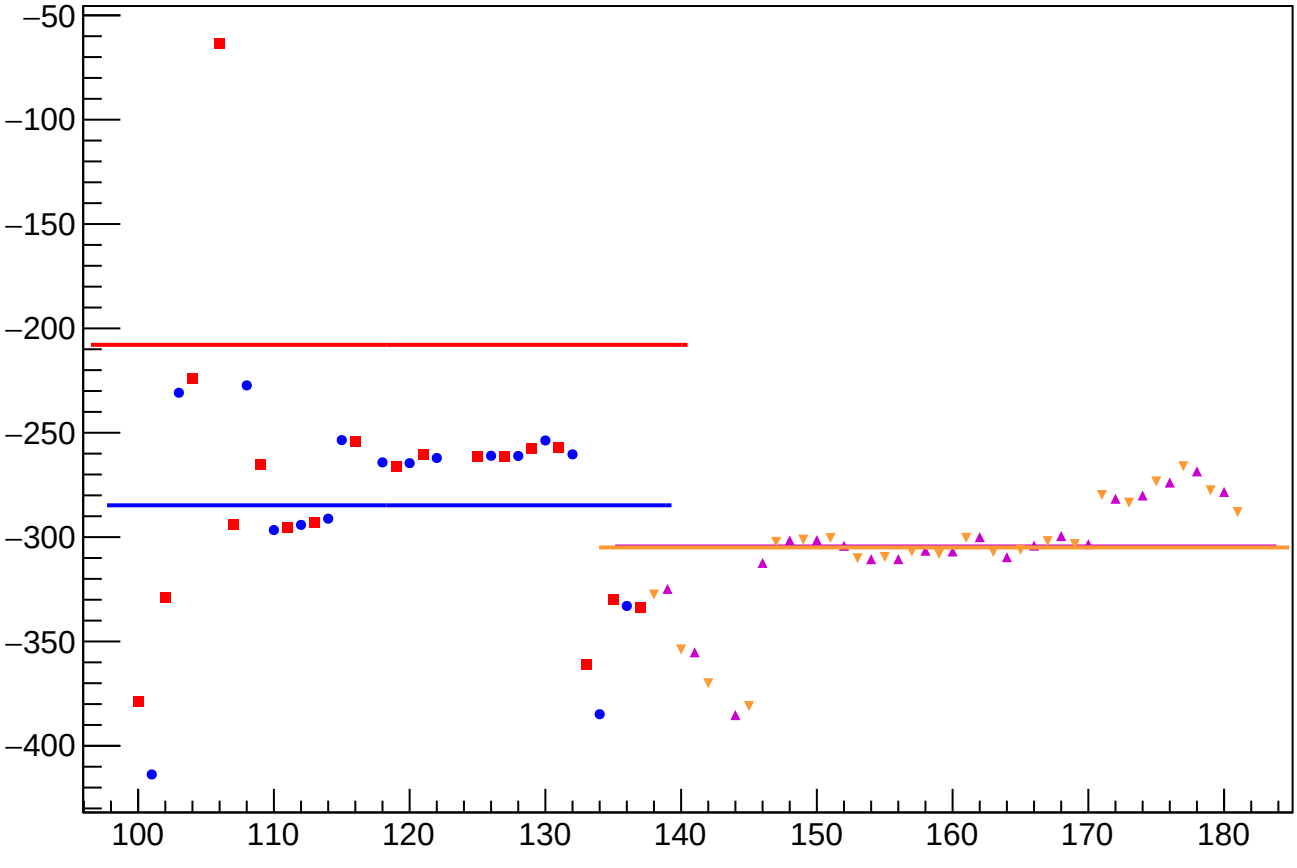
Right: 121.549+/-2.140 $\chi^2$/NDF: 560.3/33

In: 146.403+/-1.719 $\chi^2$/NDF:672.4/36

Out: 141.780+/-1.679 $\chi^2$/NDF:1030.8/39

All: 144.037+/-1.201 $\chi^2$/NDF: 1706.9/76

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -284.765+/-0.178 $\chi^2$/NDF: 104370.4/15

Left Out: -304.964+/-0.095 $\chi^2$/NDF:74646.7/21

Right Out: -207.875+/-0.149 $\chi^2$/NDF: 536707.7/17

Left In: -304.485+/-0.095 $\chi^2$/NDF:63149.2/20

Left: -304.723+/-0.067 $\chi^2$/NDF: 137808.6/42

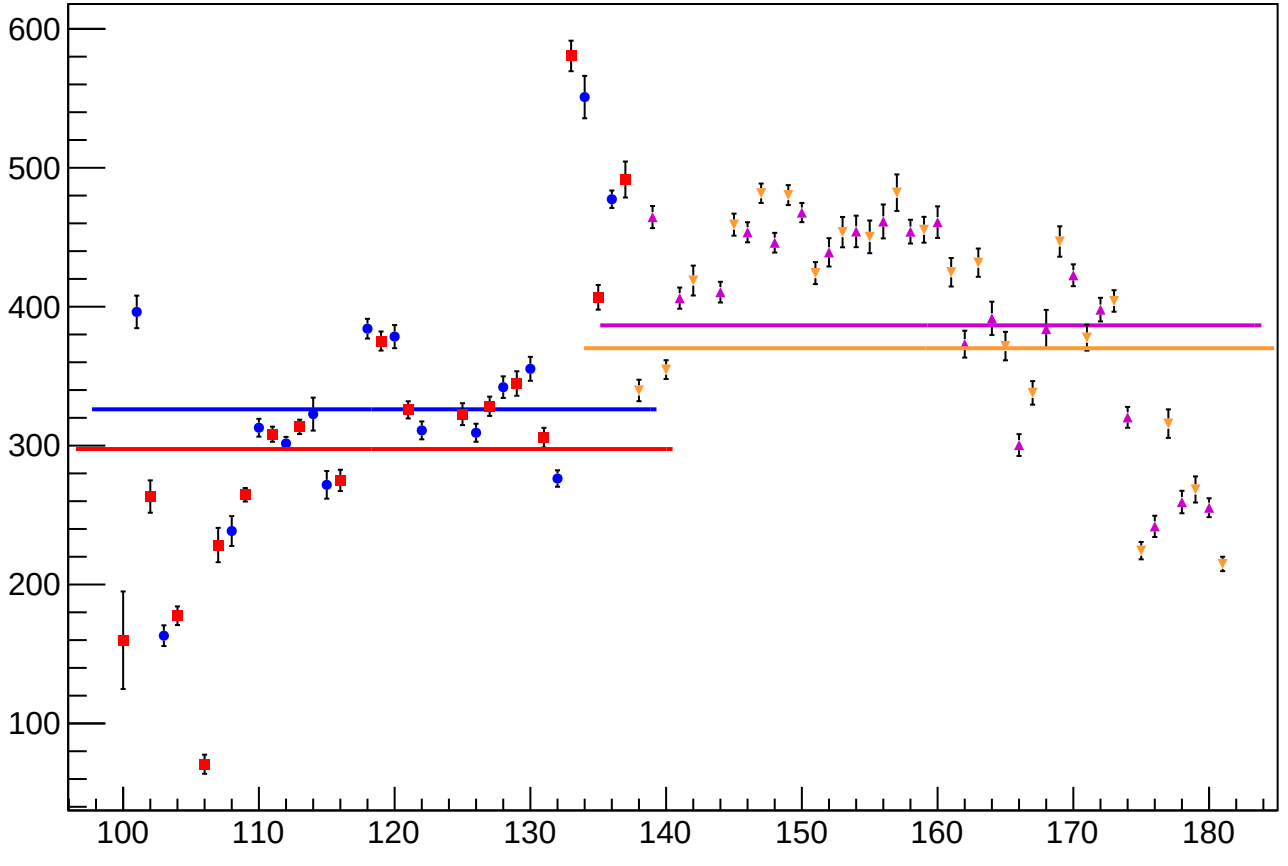
Right: -239.608+/-0.114 $\chi^2$/NDF: 751214.9/33

In: -300.102+/-0.084 $\chi^2$/NDF:177113.4/36

Out: -276.739+/-0.080 $\chi^2$/NDF:913150.3/39

All: -287.928+/-0.058 $\chi^2$/NDF: 1130853.1/76

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 326.133+/-1.857 $\chi^2$/NDF: 1642.9/15

Left Out: 370.116+/-1.783 $\chi^2$/NDF:2698.3/21

Right Out: 297.538+/-1.735 $\chi^2$/NDF: 2775.4/17

Left In: 386.560+/-1.834 $\chi^2$/NDF:1812.0/20

Left: 378.106+/-1.279 $\chi^2$/NDF: 4551.6/42

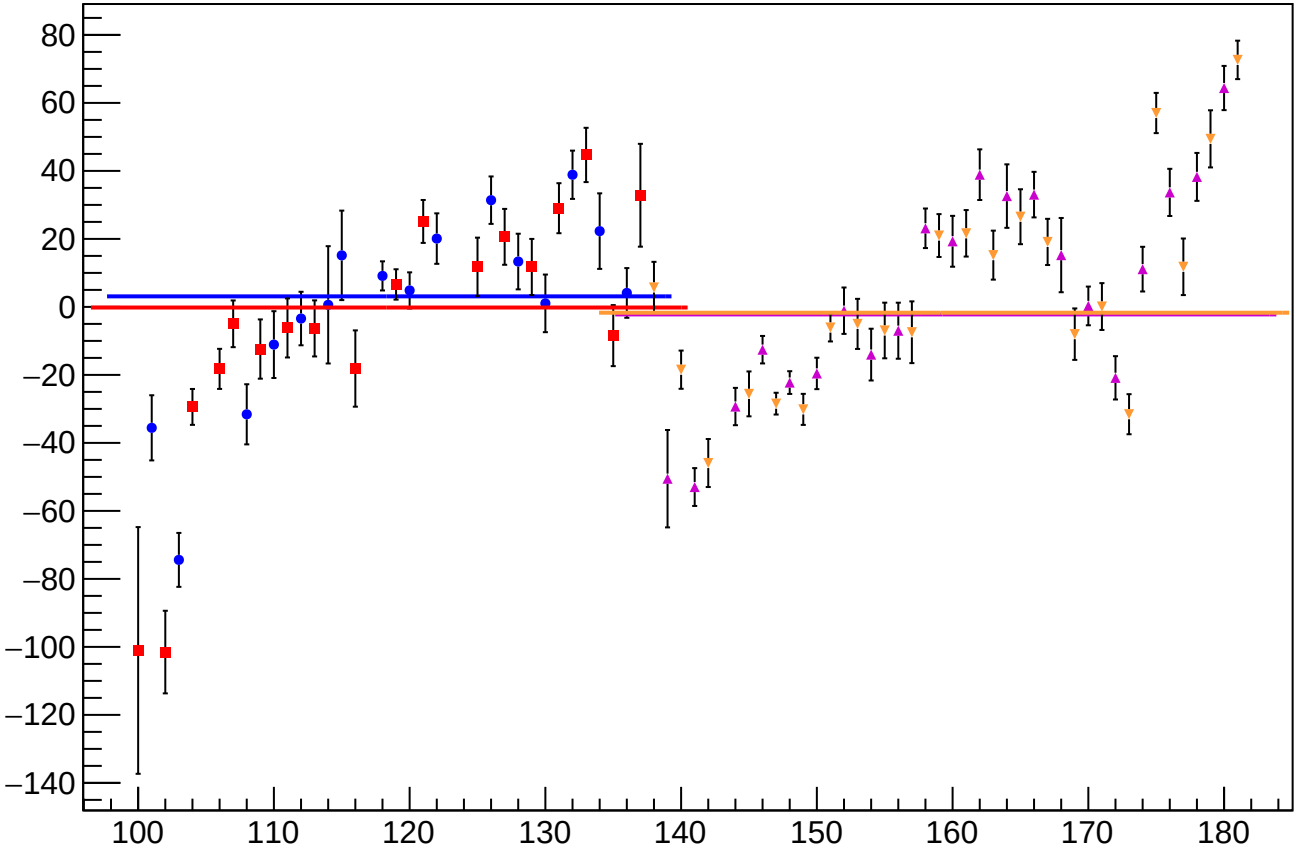
Right: 310.864+/-1.268 $\chi^2$/NDF: 4545.0/33

In: 356.717+/-1.305 $\chi^2$/NDF:3990.9/36

Out: 332.825+/-1.243 $\chi^2$/NDF:6324.9/39

All: 344.195+/-0.900 $\chi^2$/NDF: 10491.5/76

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 3.101+/-1.892 $\chi^2$/NDF: 184.5/15

Left Out: -1.712+/-1.290 $\chi^2$/NDF:562.1/21

Right Out: -0.180+/-1.791 $\chi^2$/NDF: 205.2/17

Left In: -2.212+/-1.322 $\chi^2$/NDF:457.6/20

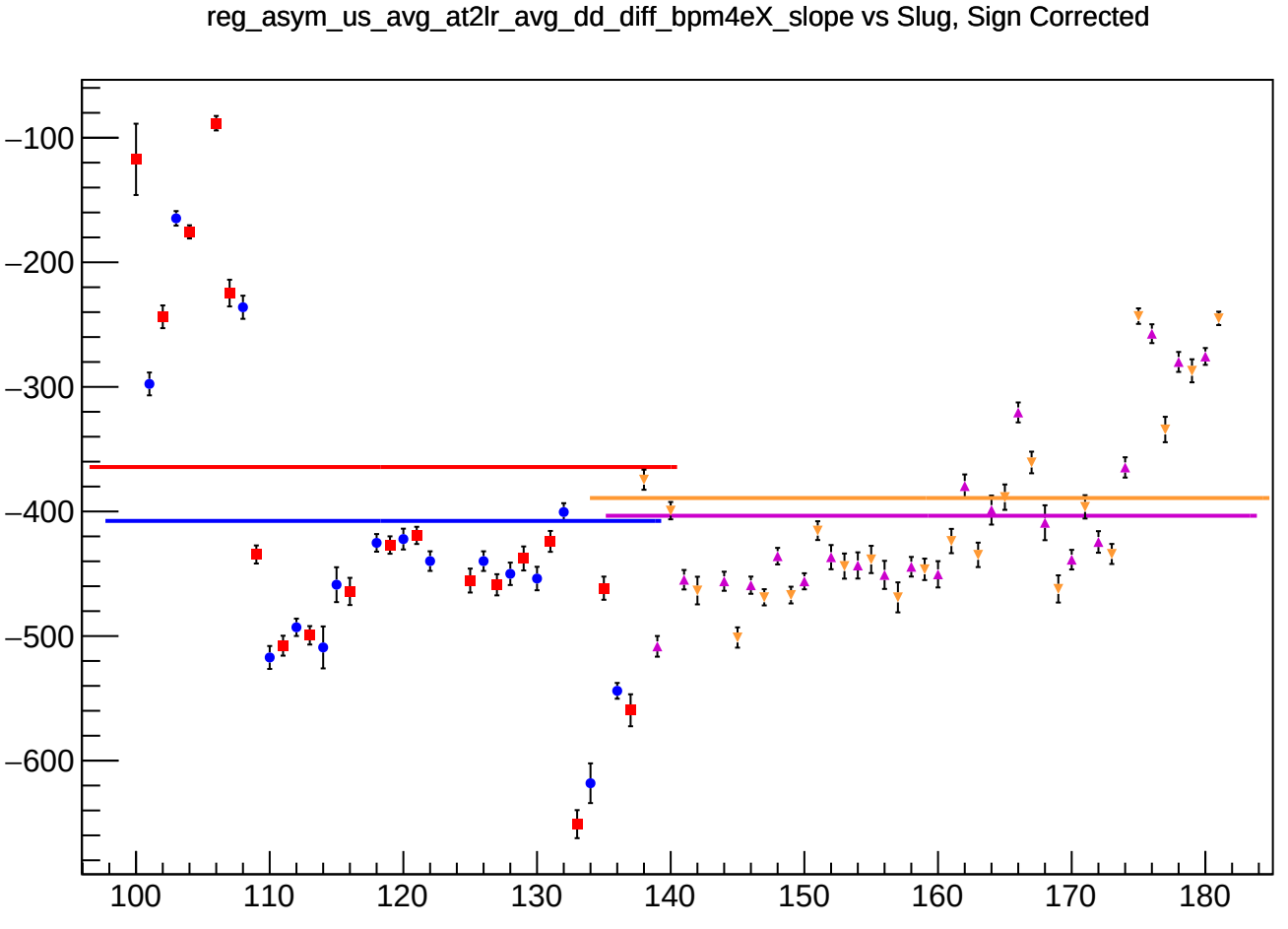
Left: -1.956+/-0.923 $\chi^2$/NDF: 1019.7/42

Right: 1.370+/-1.301 $\chi^2$/NDF: 391.3/33

In: -0.469+/-1.084 $\chi^2$/NDF:647.4/36

Out: -1.189+/-1.047 $\chi^2$/NDF:767.8/39

All: -0.842+/-0.753 $\chi^2$/NDF: 1415.4/76




Right In: -407.575+/-2.074 $\chi^2$/NDF: 3280.5/15

Left Out: -389.201+/-1.763 $\chi^2$/NDF:2212.7/21

Right Out: -364.323+/-1.942 $\chi^2$/NDF: 6220.4/17

Left In: -403.441+/-1.804 $\chi^2$/NDF:1628.1/20

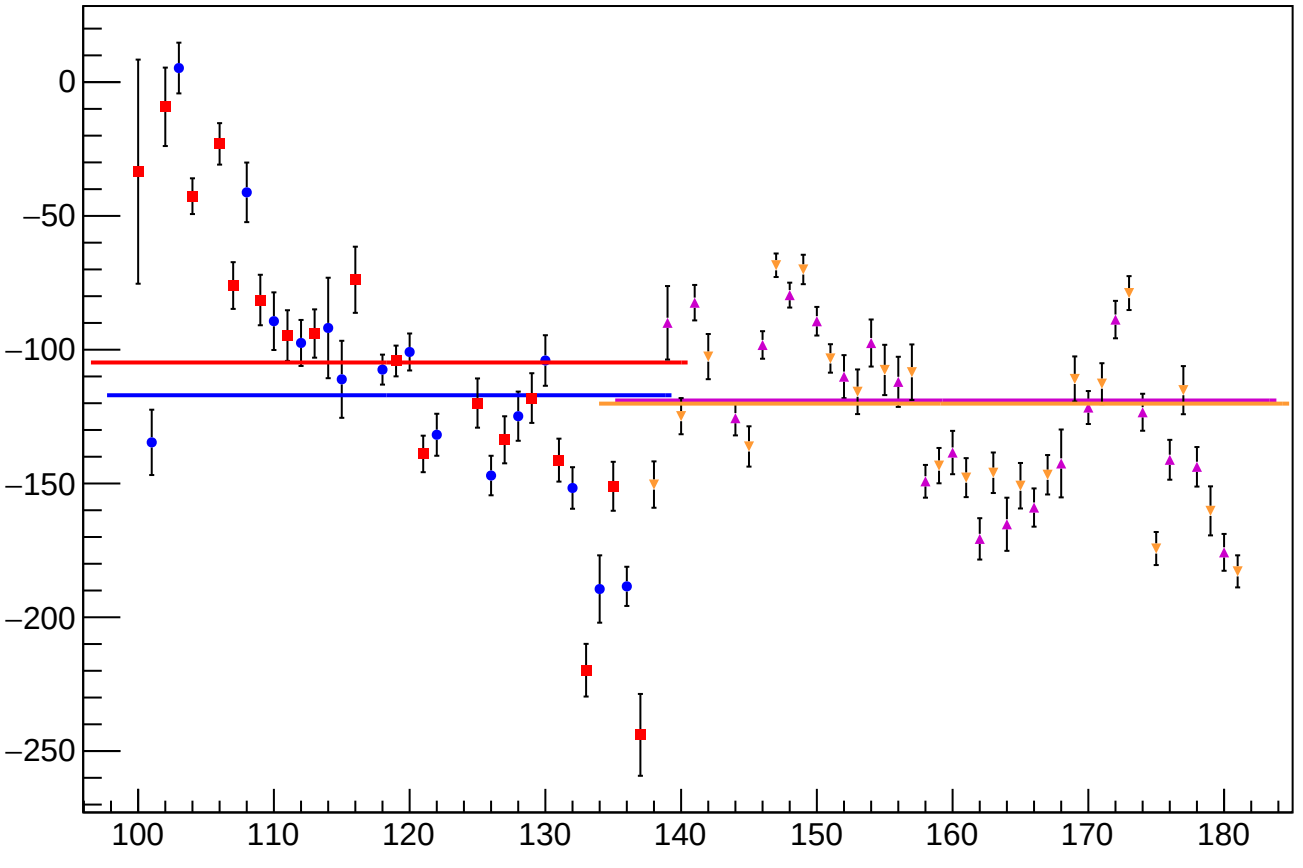
Left: -396.156+/-1.261 $\chi^2$/NDF: 3872.6/42

Right: -384.535+/-1.418 $\chi^2$/NDF: 9732.7/33

In: -405.222+/-1.361 $\chi^2$/NDF:4910.9/36

Out: -377.965+/-1.305 $\chi^2$/NDF:8523.1/39

All: -391.023+/-0.942 $\chi^2$/NDF: 13642.8/76




Right In: -117.021+/-2.194 $\chi^2$/NDF: 407.8/15

Left Out: -120.152+/-1.494 $\chi^2$/NDF:571.1/21

Right Out: -104.780+/-2.091 $\chi^2$/NDF: 575.1/17

Left In: -118.985+/-1.524 $\chi^2$/NDF:400.9/20

Left: -119.580+/-1.067 $\chi^2$/NDF: 972.4/42

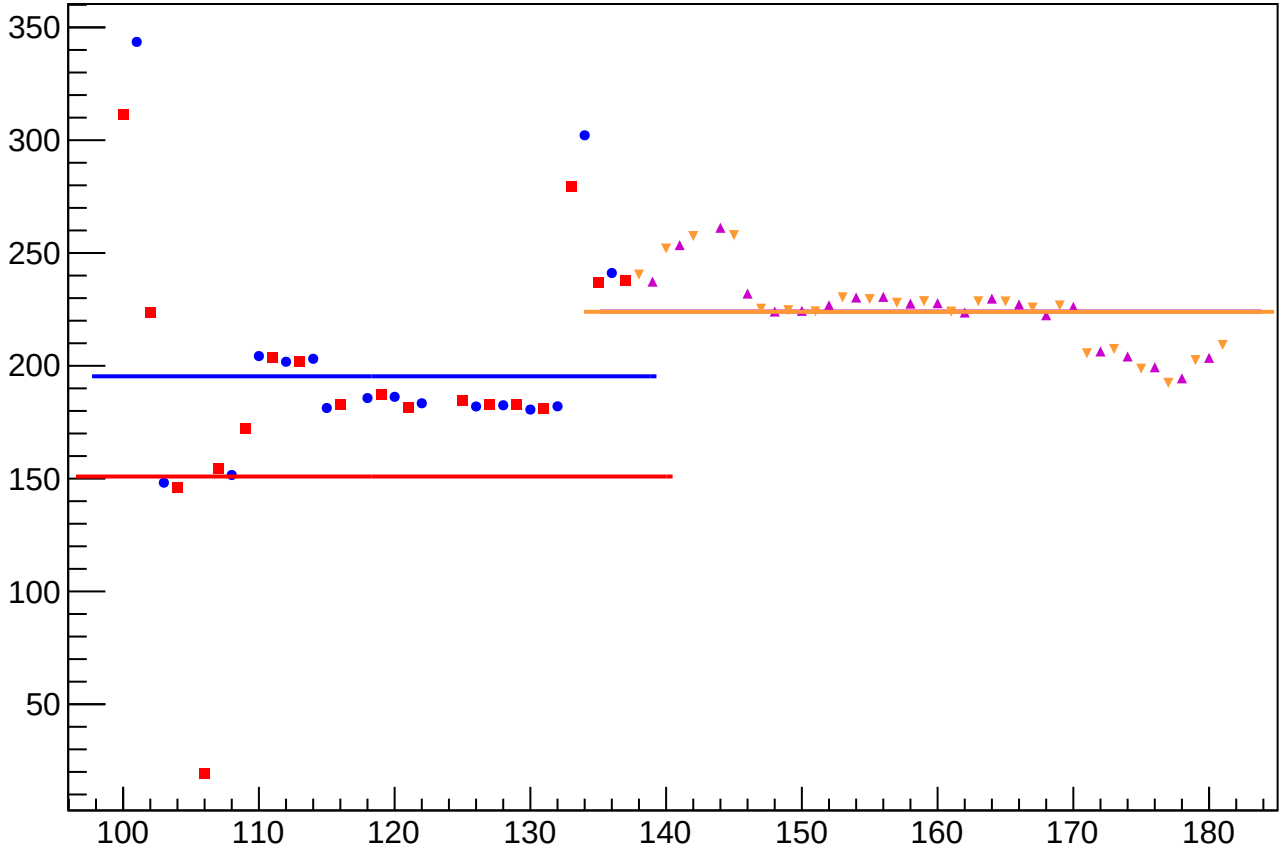
Right: -110.605+/-1.514 $\chi^2$/NDF: 999.2/33

In: -118.346+/-1.252 $\chi^2$/NDF:809.3/36

Out: -114.955+/-1.216 $\chi^2$/NDF:1182.0/39

All: -116.601+/-0.872 $\chi^2$/NDF: 1995.1/76

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 195.351+/-0.125 $\chi^2$/NDF: 176975.5/15

Left Out: 223.930+/-0.070 $\chi^2$/NDF:55661.7/21

Right Out: 150.932+/-0.110 $\chi^2$/NDF: 499233.7/17

Left In: 224.057+/-0.070 $\chi^2$/NDF:49497.9/20

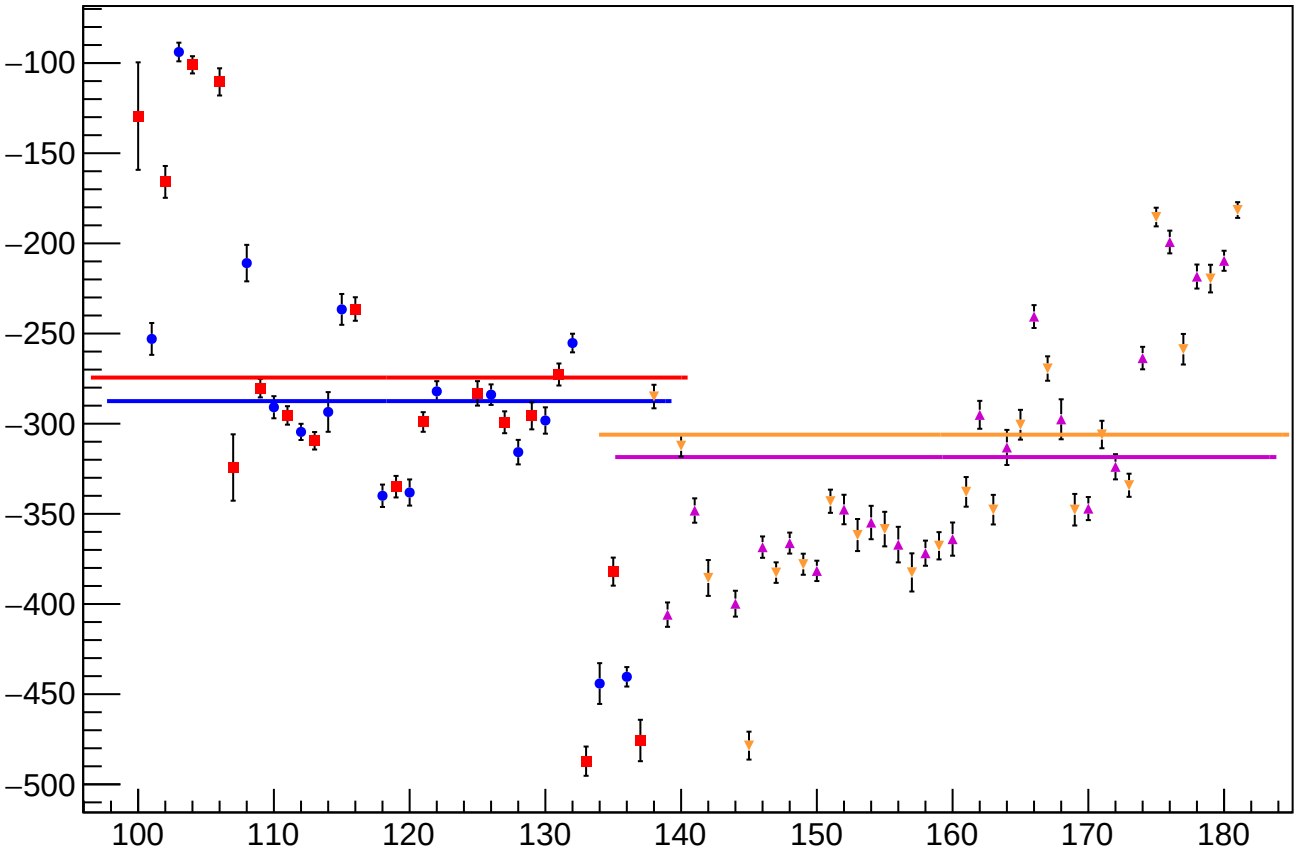
Left: 223.994+/-0.049 $\chi^2$/NDF: 105161.2/42

Right: 170.416+/-0.083 $\chi^2$/NDF: 747517.5/33

In: 217.197+/-0.061 $\chi^2$/NDF:266848.1/36

Out: 202.948+/-0.059 $\chi^2$/NDF:867743.1/39

All: 209.852+/-0.042 $\chi^2$/NDF: 1162789.7/76




Right In: -287.476+/-1.611 $\chi^2$/NDF: 2696.5/15

Left Out: -306.087+/-1.484 $\chi^2$/NDF:2754.9/21

Right Out: -274.417+/-1.551 $\chi^2$/NDF: 3413.4/17

Left In: -318.508+/-1.520 $\chi^2$/NDF:1942.2/20

Left: -312.150+/-1.062 $\chi^2$/NDF: 4731.4/42

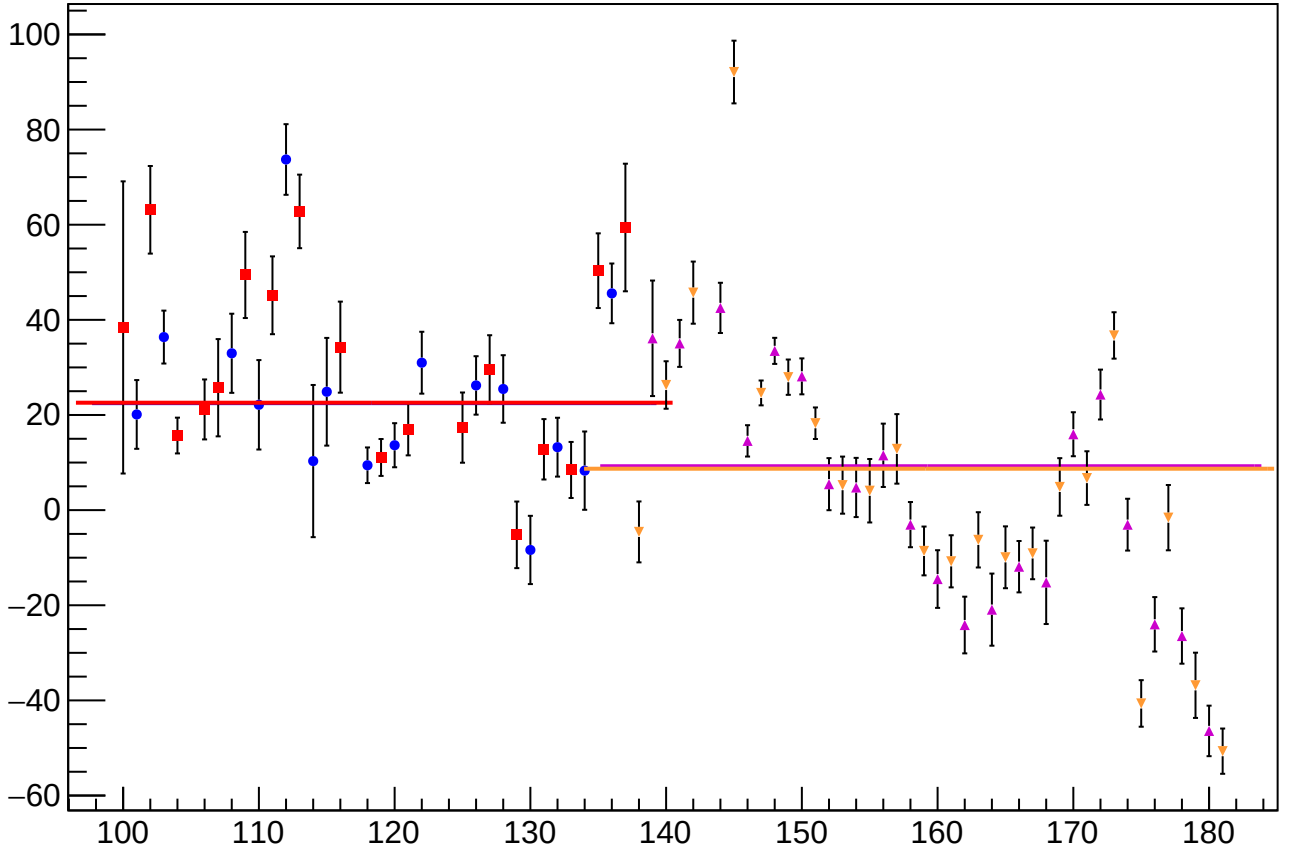
Right: -280.699+/-1.118 $\chi^2$/NDF: 6144.0/33

In: -303.894+/-1.106 $\chi^2$/NDF:4835.0/36

Out: -290.950+/-1.073 $\chi^2$/NDF:6385.9/39

All: -297.225+/-0.770 $\chi^2$/NDF: 11291.5/76

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 22.492+/-1.621 $\chi^2$/NDF: 111.4/15

Left Out: 8.704+/-1.067 $\chi^2$/NDF:669.2/21

Right Out: 22.580+/-1.570 $\chi^2$/NDF: 123.3/17

Left In: 9.227+/-1.093 $\chi^2$/NDF:467.8/20

Left: 8.959+/-0.764 $\chi^2$/NDF: 1137.2/42

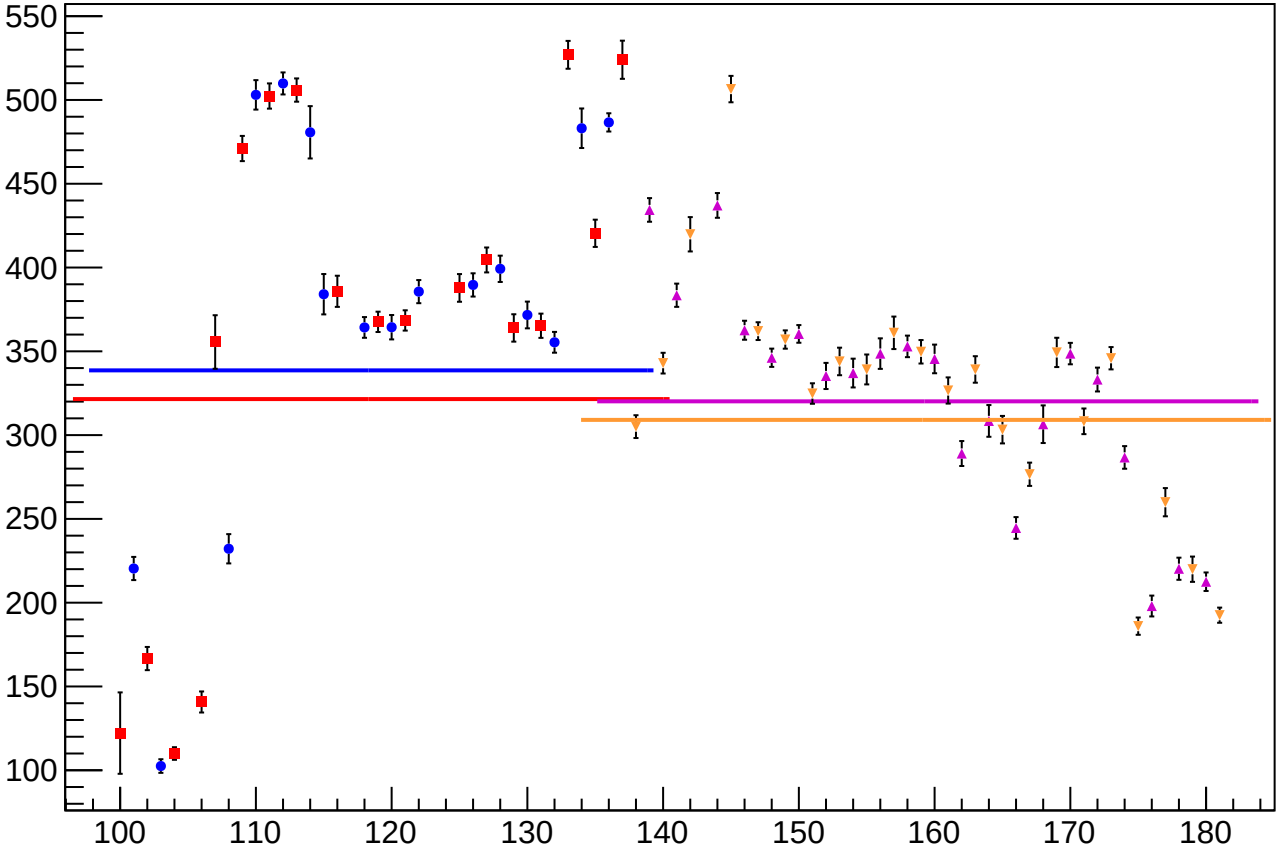
Right: 22.537+/-1.128 $\chi^2$/NDF: 234.8/33

In: 13.372+/-0.906 $\chi^2$/NDF:625.3/36

Out: 13.091+/-0.883 $\chi^2$/NDF:846.0/39

All: 13.228+/-0.632 $\chi^2$/NDF: 1471.3/76

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 338.633+/-1.748 $\chi^2$/NDF: 6042.6/15

Left Out: 309.086+/-1.464 $\chi^2$/NDF:2550.2/21

Right Out: 321.500+/-1.694 $\chi^2$/NDF: 7720.8/17

Left In: 320.151+/-1.493 $\chi^2$/NDF:1984.2/20

Left: 314.511+/-1.045 $\chi^2$/NDF: 4562.5/42

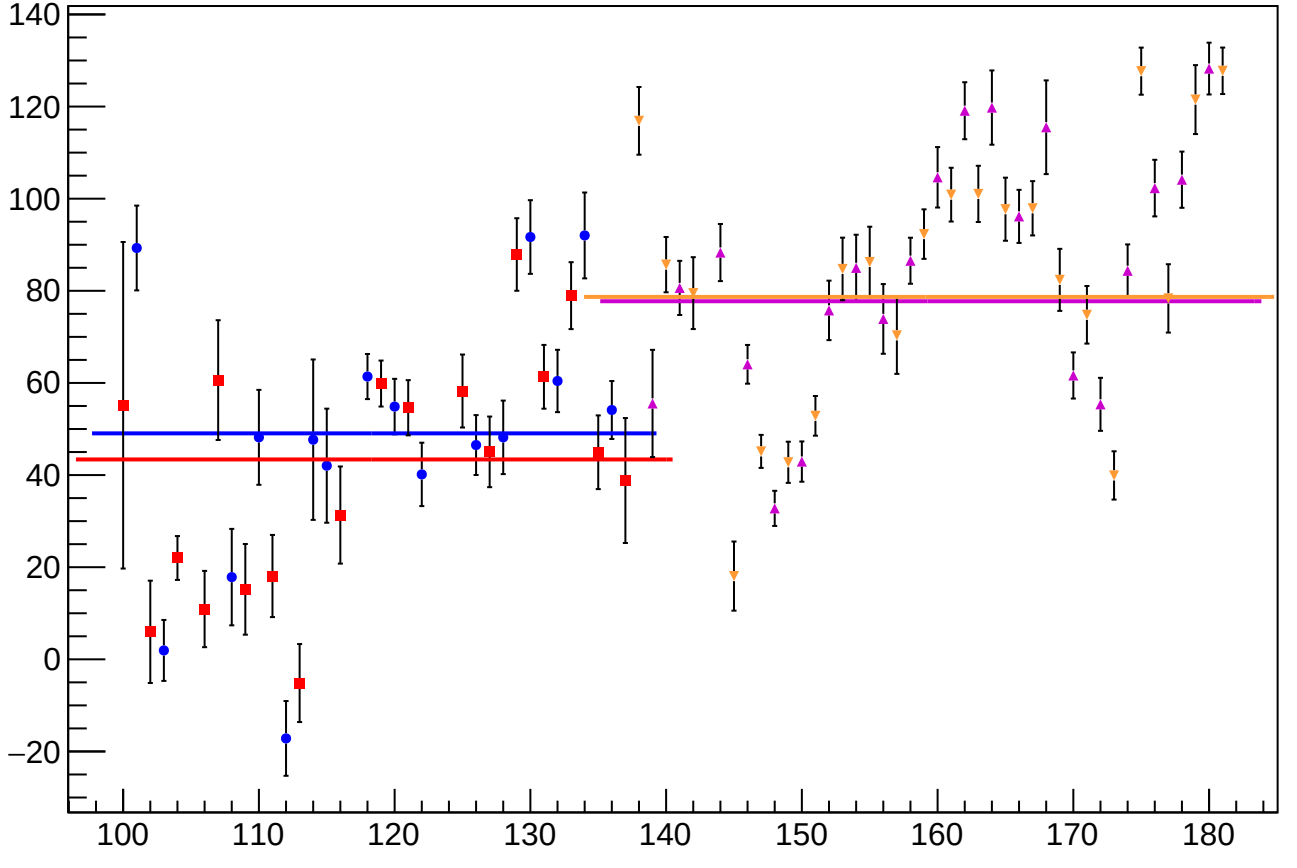
Right: 329.797+/-1.217 $\chi^2$/NDF: 13813.0/33

In: 327.945+/-1.135 $\chi^2$/NDF:8091.5/36

Out: 314.394+/-1.108 $\chi^2$/NDF:10301.8/39

All: 321.003+/-0.793 $\chi^2$/NDF: 18466.2/76

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 49.053+/-1.882 $\chi^2$/NDF: 207.9/15

Left Out: 78.679+/-1.237 $\chi^2$/NDF:611.7/21

Right Out: 43.392+/-1.834 $\chi^2$/NDF: 180.0/17

Left In: 77.735+/-1.259 $\chi^2$/NDF:479.2/20

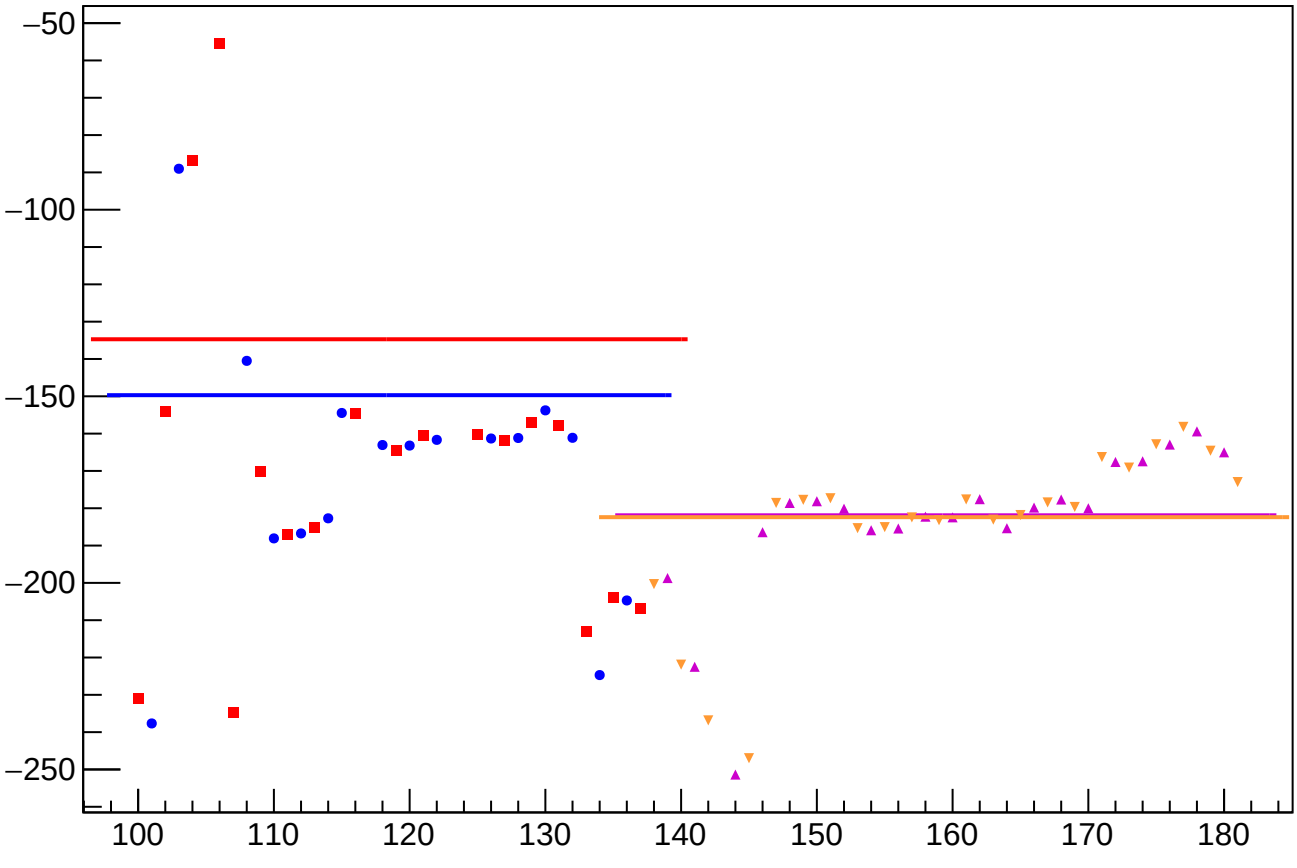
Left: 78.216+/-0.882 $\chi^2$/NDF: 1091.2/42

Right: 46.149+/-1.314 $\chi^2$/NDF: 392.6/33

In: 68.871+/-1.046 $\chi^2$/NDF:847.6/36

Out: 67.646+/-1.025 $\chi^2$/NDF:1046.2/39

All: 68.246+/-0.732 $\chi^2$/NDF: 1894.5/76




Right In: -149.698+/-0.101 $\chi^2$/NDF: 256472.2/15

Left Out: -182.392+/-0.058 $\chi^2$/NDF:110774.2/21

Right Out: -134.715+/-0.097 $\chi^2$/NDF: 312639.8/17

Left In: -181.891+/-0.058 $\chi^2$/NDF:92977.8/20

Left: -182.140+/-0.041 $\chi^2$/NDF: 203789.6/42

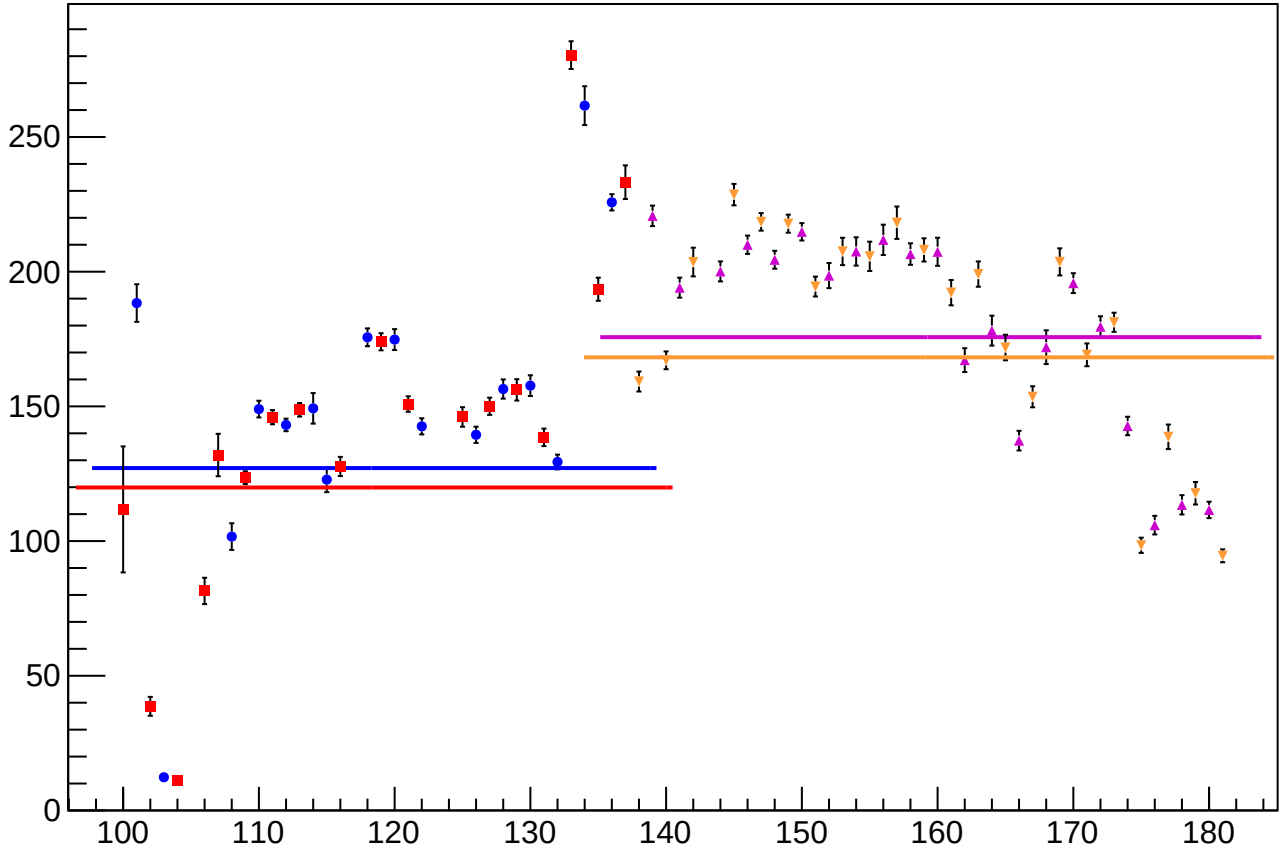
Right: -141.917+/-0.070 $\chi^2$/NDF: 580582.0/33

In: -173.963+/-0.050 $\chi^2$/NDF:426298.5/36

Out: -169.863+/-0.050 $\chi^2$/NDF:601531.0/39

All: -171.900+/-0.035 $\chi^2$/NDF: 1031207.4/76

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 127.100+/-0.811 $\chi^2$/NDF: 6163.2/15

Left Out: 168.208+/-0.830 $\chi^2$/NDF:2939.3/21

Right Out: 119.886+/-0.774 $\chi^2$/NDF: 6649.6/17

Left In: 175.697+/-0.852 $\chi^2$/NDF:2119.8/20

Left: 171.854+/-0.594 $\chi^2$/NDF: 5098.8/42

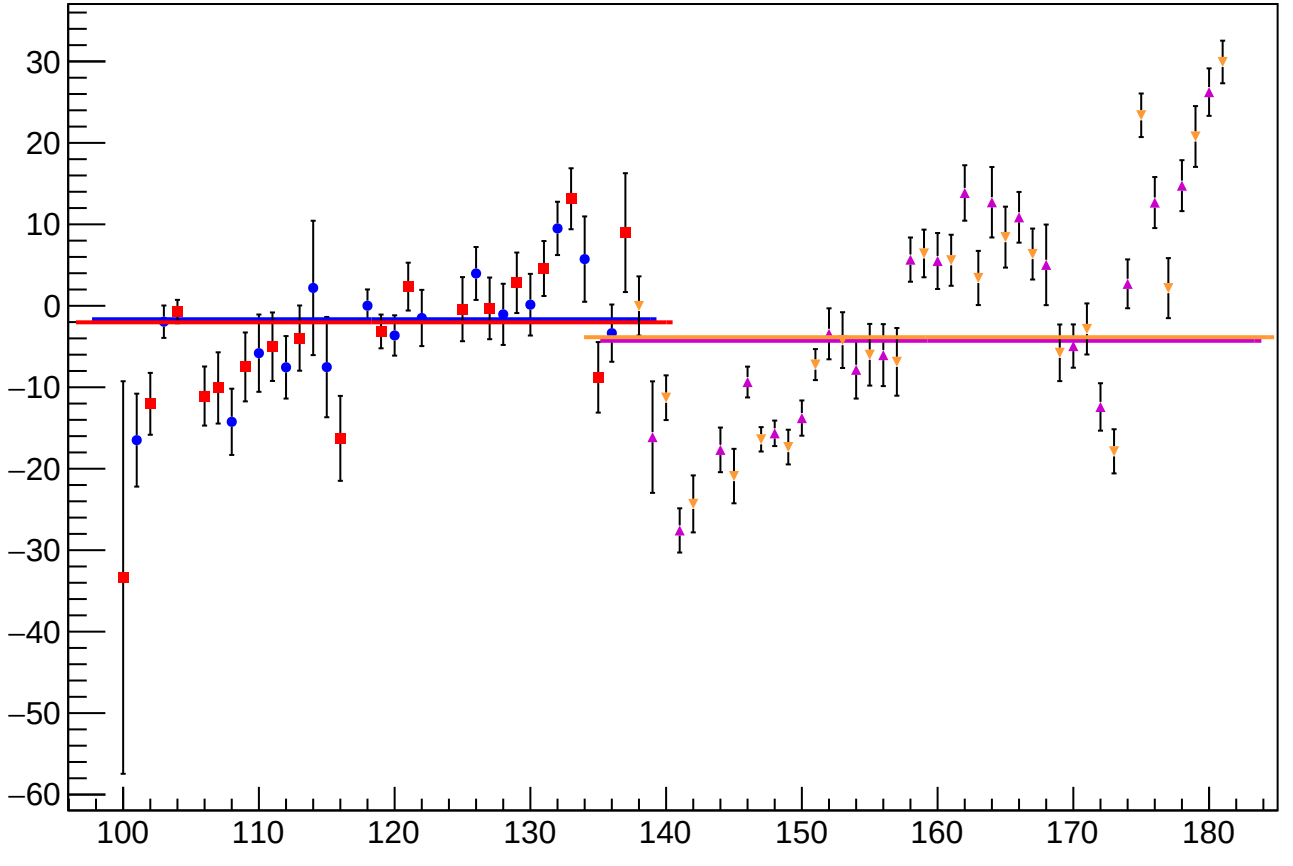
Right: 123.326+/-0.560 $\chi^2$/NDF: 12854.2/33

In: 150.209+/-0.587 $\chi^2$/NDF:9991.2/36

Out: 142.382+/-0.566 $\chi^2$/NDF:11402.4/39

All: 146.151+/-0.408 $\chi^2$/NDF: 21485.7/76

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -1.651+/-0.833 $\chi^2$/NDF: 39.1/15

Left Out: -3.855+/-0.601 $\chi^2$/NDF:574.7/21

Right Out: -2.027+/-0.770 $\chi^2$/NDF: 58.6/17

Left In: -4.293+/-0.615 $\chi^2$/NDF:463.2/20

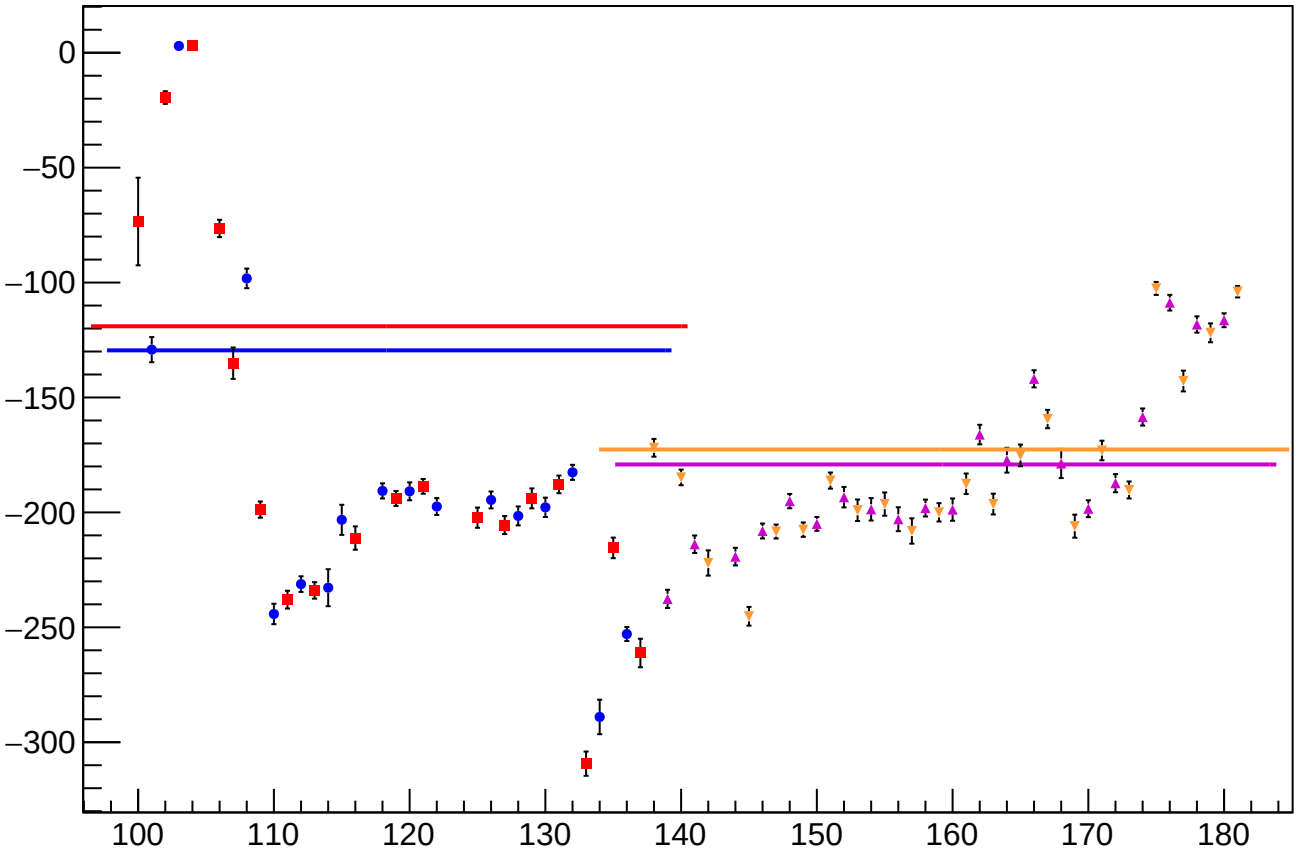
Left: -4.069+/-0.430 $\chi^2$/NDF: 1038.2/42

Right: -1.854+/-0.565 $\chi^2$/NDF: 97.8/33

In: -3.360+/-0.495 $\chi^2$/NDF:508.7/36

Out: -3.164+/-0.474 $\chi^2$/NDF:636.8/39

All: -3.258+/-0.342 $\chi^2$/NDF: 1145.6/76




Right In: -129.497+/-0.846 $\chi^2$/NDF: 14687.9/15

Left Out: -172.623+/-0.819 $\chi^2$/NDF:2523.2/21

Right Out: -119.022+/-0.813 $\chi^2$/NDF: 16177.3/17

Left In: -179.140+/-0.837 $\chi^2$/NDF:2001.1/20

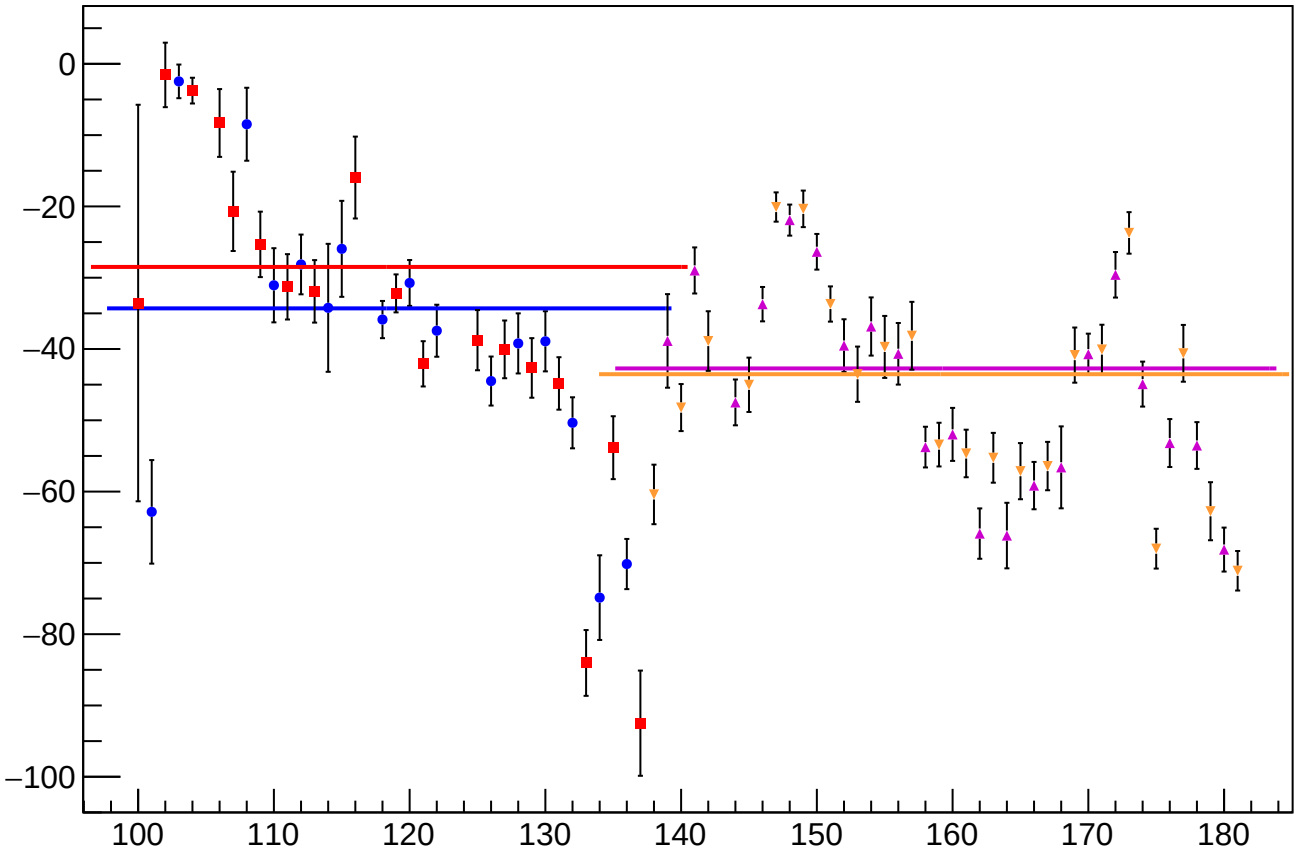
Left: -175.811+/-0.586 $\chi^2$/NDF: 4555.3/42

Right: -124.047+/-0.586 $\chi^2$/NDF: 30944.8/33

In: -154.584+/-0.595 $\chi^2$/NDF:18427.4/36

Out: -145.604+/-0.577 $\chi^2$/NDF:20857.3/39

All: -149.955+/-0.414 $\chi^2$/NDF: 39402.0/76




Right In: -34.301+/-0.968 $\chi^2$/NDF: 411.3/15

Left Out: -43.534+/-0.695 $\chi^2$/NDF:555.2/21

Right Out: -28.488+/-0.907 $\chi^2$/NDF: 568.0/17

Left In: -42.726+/-0.708 $\chi^2$/NDF:398.5/20

Left: -43.138+/-0.496 $\chi^2$/NDF: 954.3/42

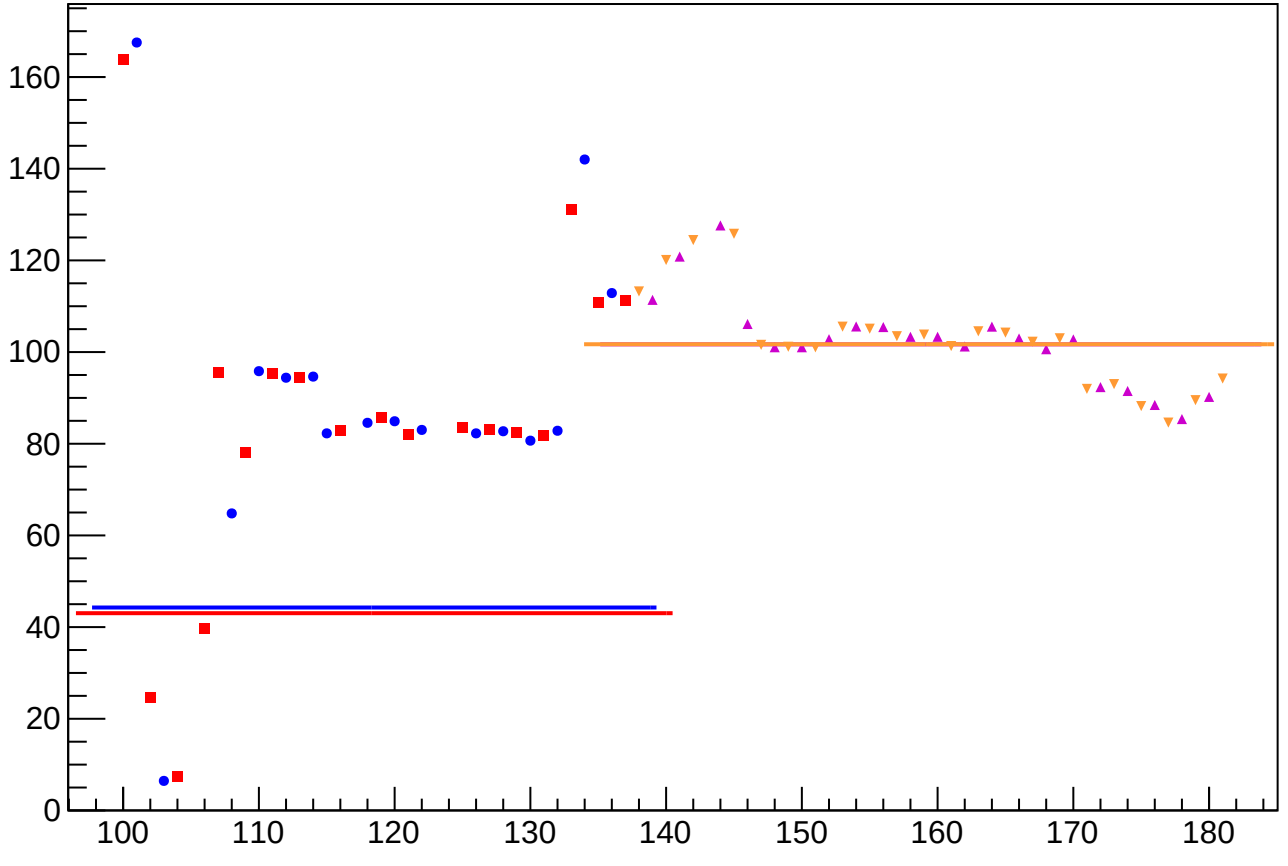
Right: -31.206+/-0.662 $\chi^2$/NDF: 998.5/33

In: -39.789+/-0.571 $\chi^2$/NDF:859.2/36

Out: -37.967+/-0.552 $\chi^2$/NDF:1296.6/39

All: -38.846+/-0.397 $\chi^2$/NDF: 2161.1/76

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 44.274+/-0.045 $\chi^2$/NDF: 1085082.2/15

Left Out: 101.707+/-0.032 $\chi^2$/NDF:92871.1/21

Right Out: 43.035+/-0.045 $\chi^2$/NDF: 805108.5/17

Left In: 101.683+/-0.032 $\chi^2$/NDF:81808.8/20

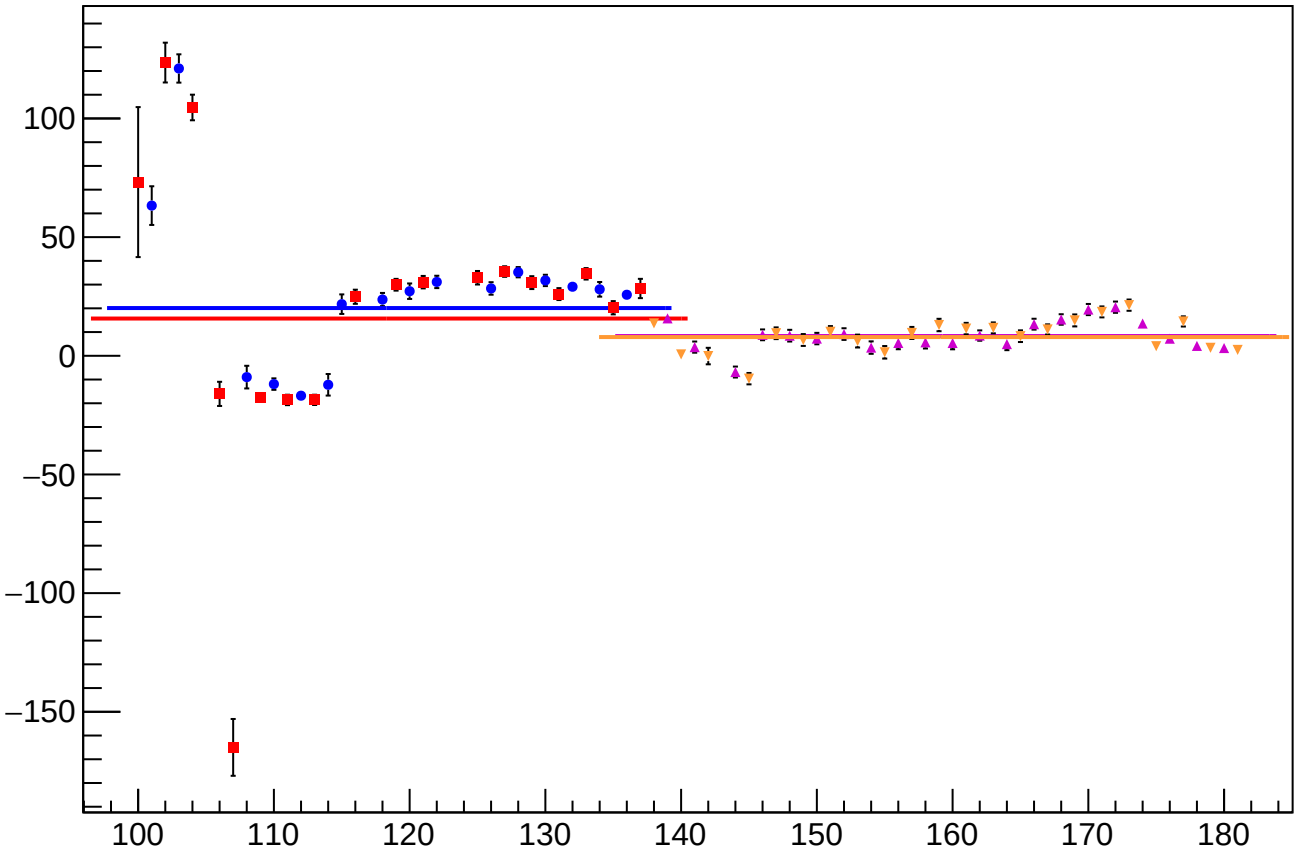
Left: 101.695+/-0.023 $\chi^2$/NDF: 174680.1/42

Right: 43.656+/-0.032 $\chi^2$/NDF: 1890570.2/33

In: 82.048+/-0.026 $\chi^2$/NDF:2240585.7/36

Out: 81.627+/-0.026 $\chi^2$/NDF:2014374.1/39

All: 81.838+/-0.019 $\chi^2$/NDF: 4255087.5/76




Right In: 20.117+/-0.687 $\chi^2$/NDF: 1048.1/15

Left Out: 7.892+/-0.477 $\chi^2$/NDF:193.3/21

Right Out: 15.700+/-0.682 $\chi^2$/NDF: 1773.8/17

Left In: 8.326+/-0.488 $\chi^2$/NDF:155.8/20

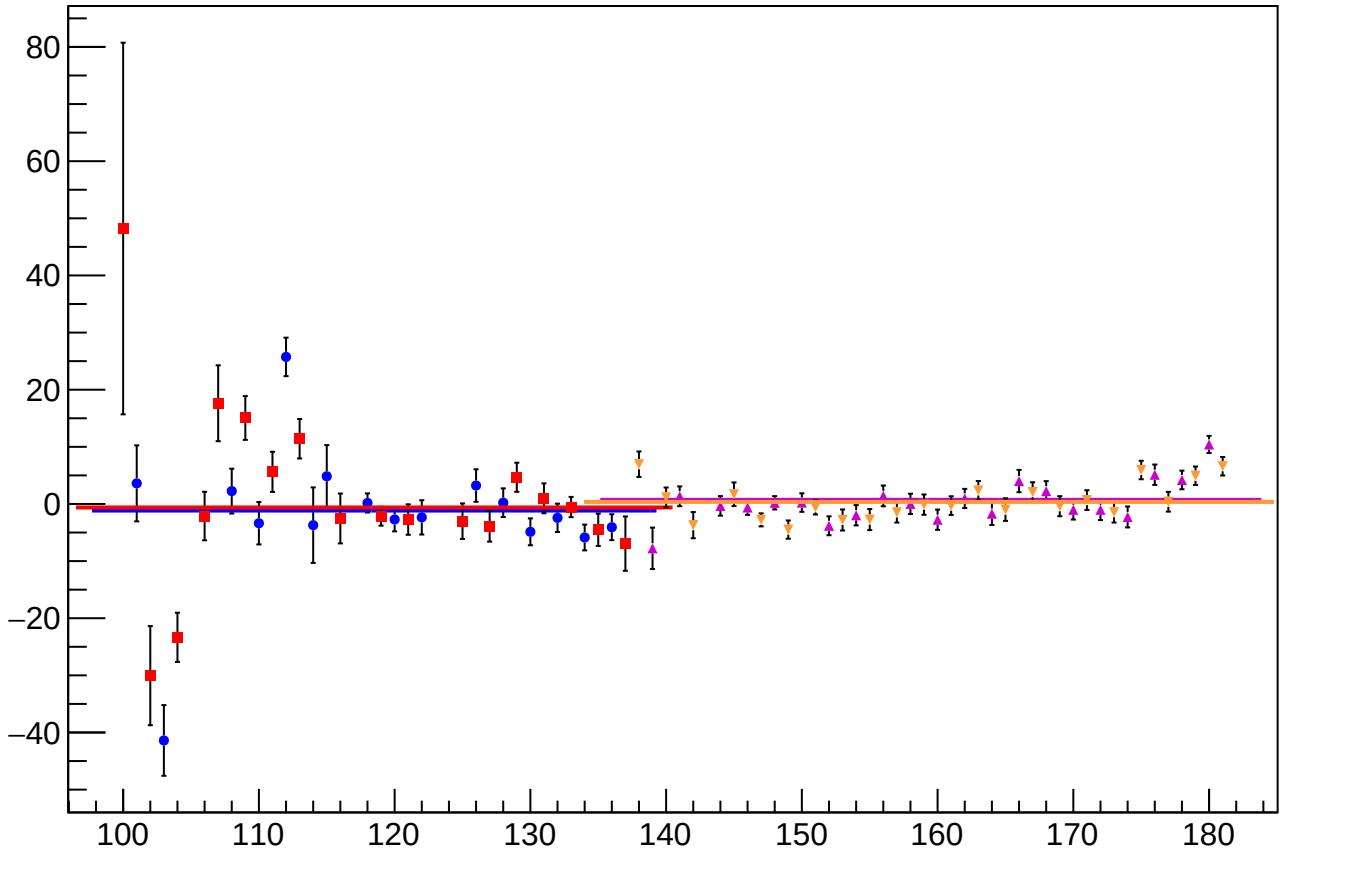
Left: 8.104+/-0.341 $\chi^2$/NDF: 349.5/42

Right: 17.893+/-0.484 $\chi^2$/NDF: 2842.7/33

In: 12.277+/-0.398 $\chi^2$/NDF:1399.7/36

Out: 10.457+/-0.391 $\chi^2$/NDF:2055.1/39

All: 11.352+/-0.279 $\chi^2$/NDF: 3465.5/76




Right In: -1.151+/-0.699 $\chi^2$/NDF: 121.8/15

Left Out: 0.359+/-0.359 $\chi^2$/NDF:76.0/21

Right Out: -0.614+/-0.713 $\chi^2$/NDF: 93.4/17

Left In: 0.721+/-0.369 $\chi^2$/NDF:83.4/20

Left: 0.536+/-0.257 $\chi^2$/NDF: 159.9/42

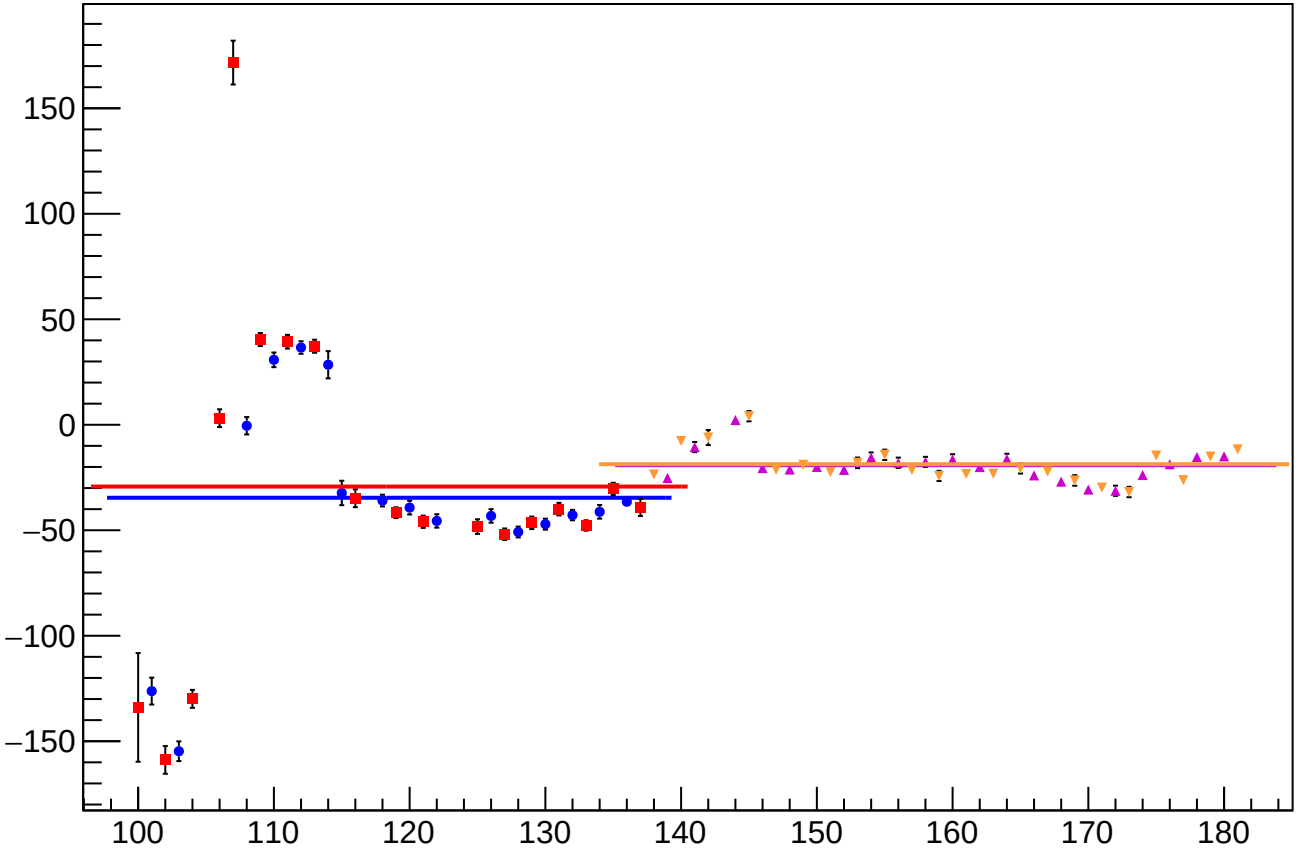
Right: -0.888+/-0.499 $\chi^2$/NDF: 215.5/33

In: 0.314+/-0.326 $\chi^2$/NDF:210.8/36

Out: 0.163+/-0.321 $\chi^2$/NDF:170.9/39

All: 0.237+/-0.229 $\chi^2$/NDF: 381.8/76

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -34.598+/-0.786 $\chi^2$/NDF: 2058.4/15

Left Out: -18.696+/-0.471 $\chi^2$/NDF:260.4/21

Right Out: -29.277+/-0.800 $\chi^2$/NDF: 3081.1/17

Left In: -19.168+/-0.480 $\chi^2$/NDF:191.9/20

Left: -18.927+/-0.336 $\chi^2$/NDF: 452.8/42

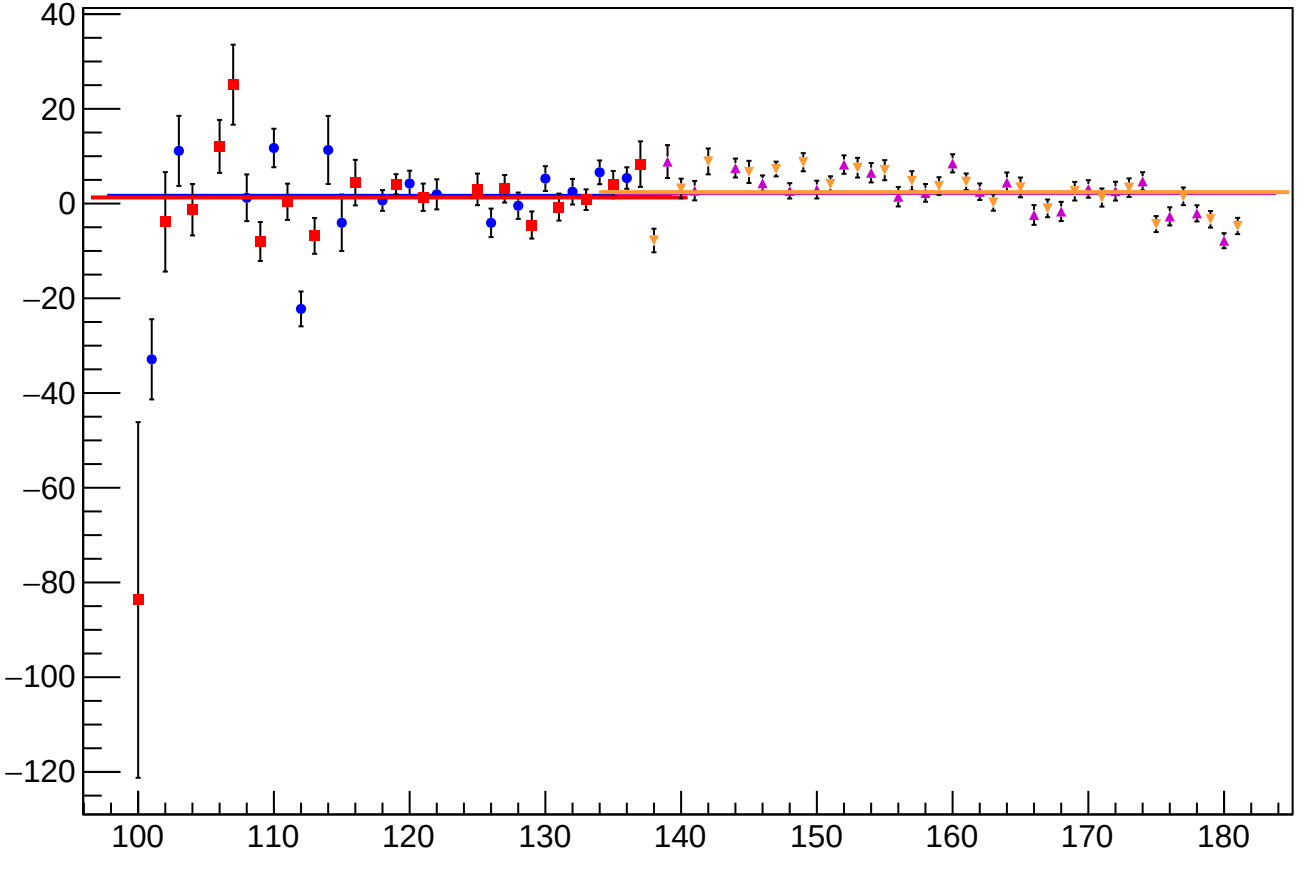
Right: -31.983+/-0.561 $\chi^2$/NDF: 5162.0/33

In: -23.364+/-0.410 $\chi^2$/NDF:2530.8/36

Out: -21.422+/-0.406 $\chi^2$/NDF:3471.4/39

All: -22.383+/-0.288 $\chi^2$/NDF: 6013.5/76

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 1.630+/-0.797 $\chi^2$/NDF: 83.3/15

Left Out: 2.419+/-0.407 $\chi^2$/NDF:112.0/21

Right Out: 1.298+/-0.817 $\chi^2$/NDF: 37.5/17

Left In: 2.238+/-0.417 $\chi^2$/NDF:102.1/20

Left: 2.331+/-0.291 $\chi^2$/NDF: 214.2/42

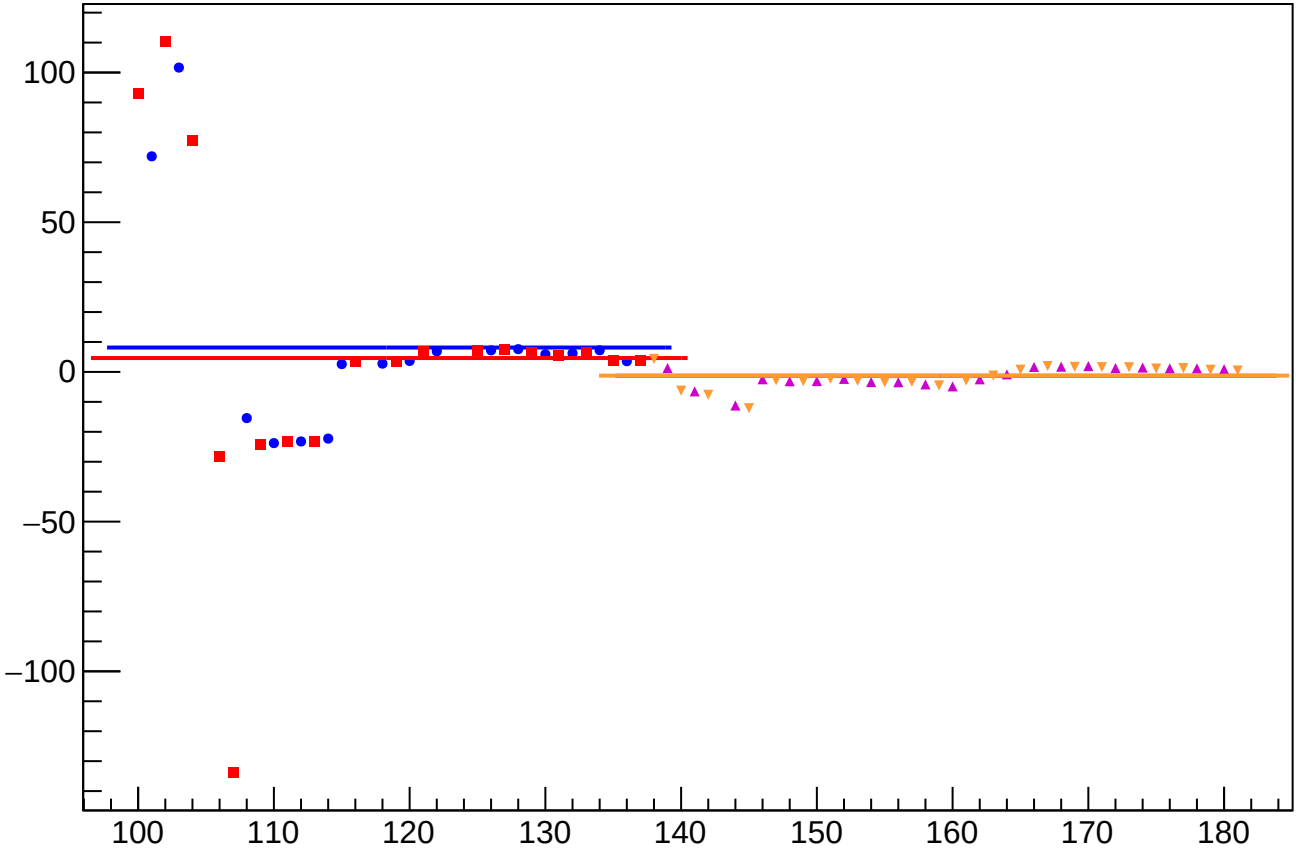
Right: 1.468+/-0.570 $\chi^2$/NDF: 120.9/33

In: 2.108+/-0.369 $\chi^2$/NDF:185.9/36

Out: 2.195+/-0.364 $\chi^2$/NDF:151.0/39

All: 2.152+/-0.259 $\chi^2$/NDF: 336.9/76

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 8.146+/-0.048 $\chi^2$/NDF: 313350.7/15

Left Out: -1.241+/-0.018 $\chi^2$/NDF:34910.8/21

Right Out: 4.638+/-0.052 $\chi^2$/NDF: 446805.7/17

Left In: -1.278+/-0.018 $\chi^2$/NDF:27464.2/20

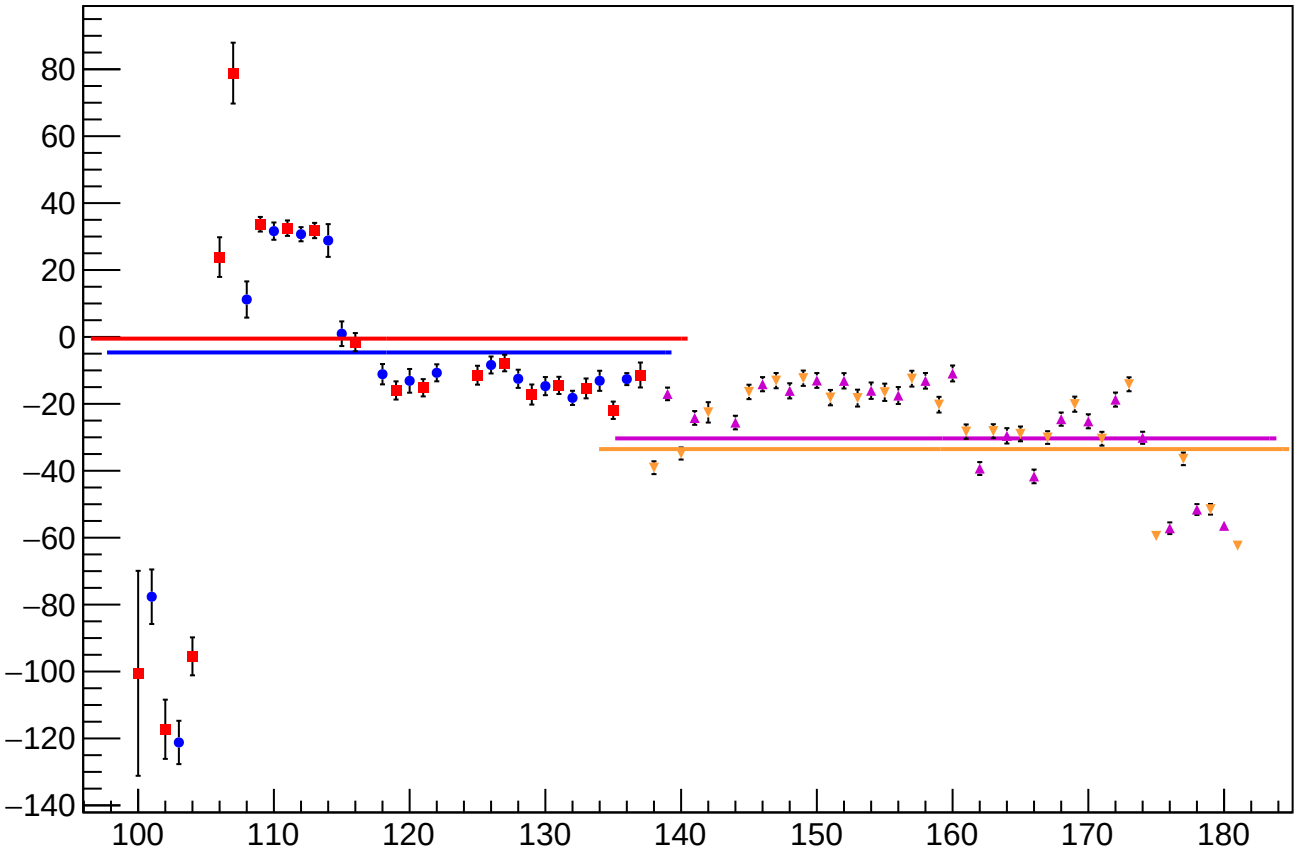
Left: -1.260+/-0.013 $\chi^2$/NDF: 62377.0/42

Right: 6.508+/-0.035 $\chi^2$/NDF: 762611.1/33

In: -0.091+/-0.017 $\chi^2$/NDF:373992.8/36

Out: -0.589+/-0.017 $\chi^2$/NDF:493221.0/39

All: -0.340+/-0.012 $\chi^2$/NDF: 867632.9/76




Right In: -4.640+/-0.712 $\chi^2$/NDF: 1046.3/15

Left Out: -33.521+/-0.429 $\chi^2$/NDF:1561.9/21

Right Out: -0.505+/-0.711 $\chi^2$/NDF: 1457.8/17

Left In: -30.328+/-0.439 $\chi^2$/NDF:1324.6/20

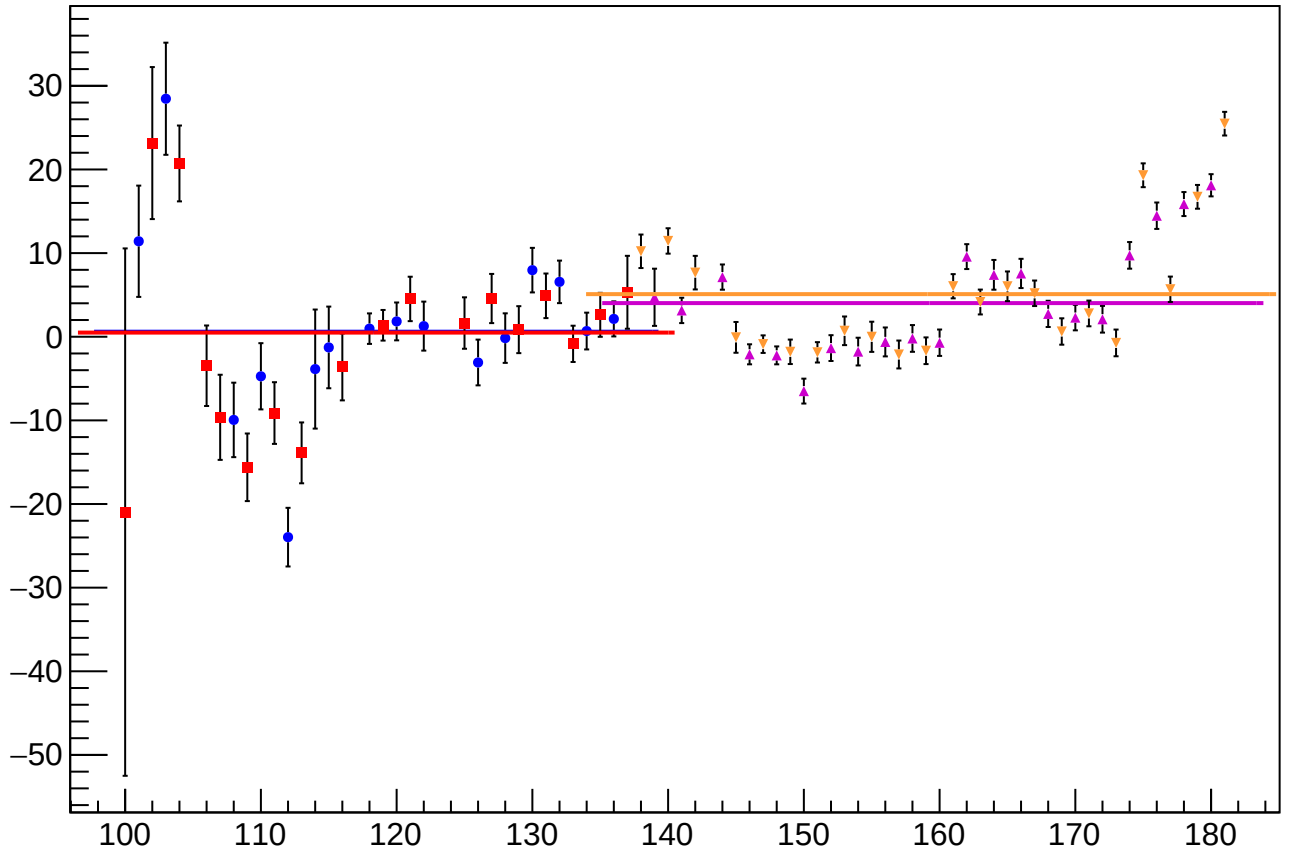
Left: -31.962+/-0.307 $\chi^2$/NDF: 2913.6/42

Right: -2.571+/-0.503 $\chi^2$/NDF: 2521.0/33

In: -23.249+/-0.374 $\chi^2$/NDF:3315.0/36

Out: -24.721+/-0.367 $\chi^2$/NDF:4601.8/39

All: -23.998+/-0.262 $\chi^2$/NDF: 7924.8/76




Right In: 0.602+/-0.727 $\chi^2$/NDF: 92.9/15

Left Out: 5.094+/-0.325 $\chi^2$/NDF:571.4/21

Right Out: 0.496+/-0.755 $\chi^2$/NDF: 80.2/17

Left In: 4.023+/-0.332 $\chi^2$/NDF:424.9/20

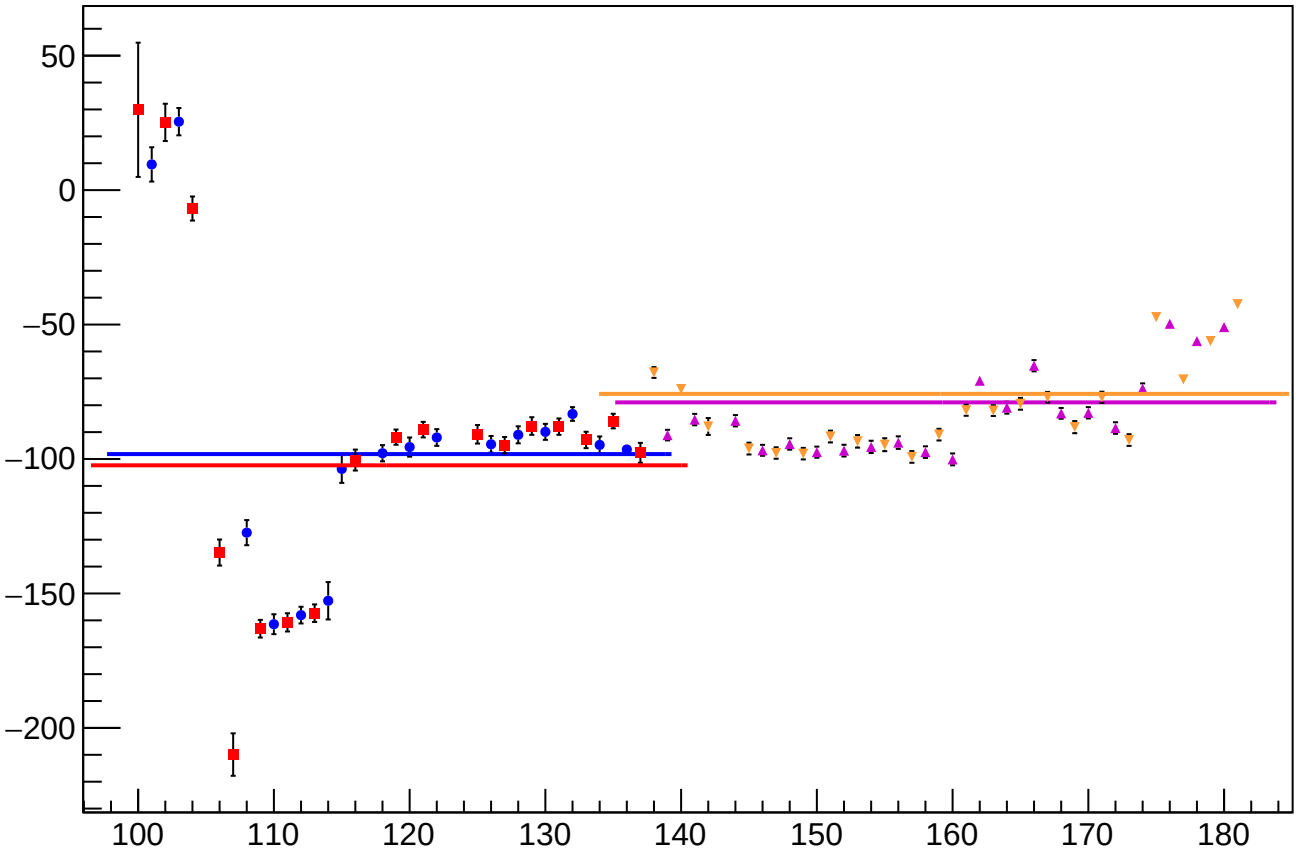
Left: 4.571+/-0.232 $\chi^2$/NDF: 1001.6/42

Right: 0.551+/-0.524 $\chi^2$/NDF: 173.0/33

In: 3.432+/-0.302 $\chi^2$/NDF:536.1/36

Out: 4.377+/-0.298 $\chi^2$/NDF:682.9/39

All: 3.911+/-0.212 $\chi^2$/NDF: 1223.9/76




Right In: -98.168+/-0.813 $\chi^2$/NDF: 1699.9/15

Left Out: -75.775+/-0.424 $\chi^2$/NDF:1935.5/21

Right Out: -102.349+/-0.837 $\chi^2$/NDF: 2117.5/17

Left In: -78.939+/-0.433 $\chi^2$/NDF:1599.7/20

Left: -77.324+/-0.303 $\chi^2$/NDF: 3562.4/42

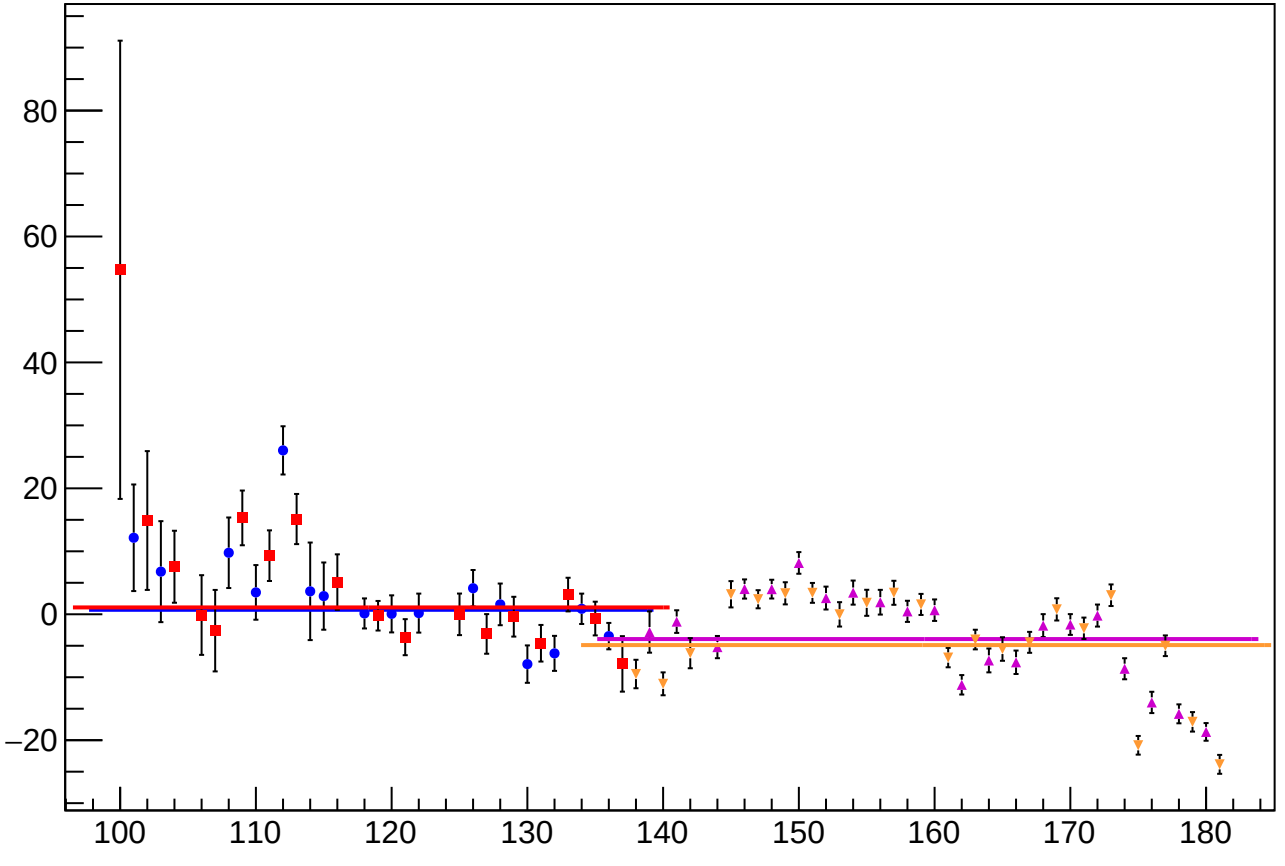
Right: -100.197+/-0.583 $\chi^2$/NDF: 3830.3/33

In: -83.186+/-0.382 $\chi^2$/NDF:3735.8/36

Out: -81.200+/-0.378 $\chi^2$/NDF:4855.3/39

All: -82.183+/-0.269 $\chi^2$/NDF: 8604.8/76

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 0.711+/-0.821 $\chi^2$/NDF: 69.6/15

Left Out: -4.894+/-0.367 $\chi^2$/NDF:529.2/21

Right Out: 1.088+/-0.856 $\chi^2$/NDF: 47.7/17

Left In: -3.937+/-0.375 $\chi^2$/NDF:412.0/20

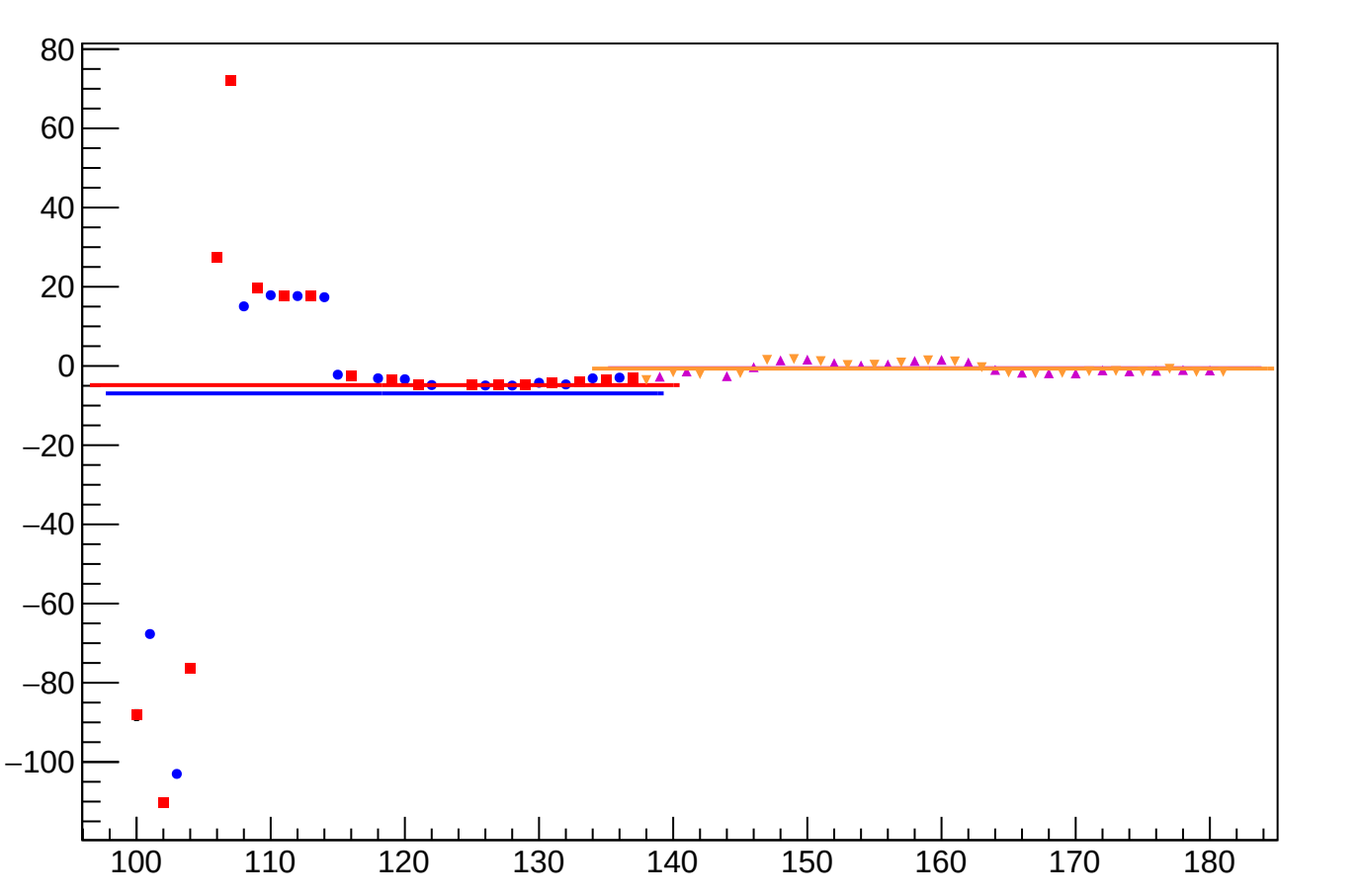
Left: -4.425+/-0.262 $\chi^2$/NDF: 944.5/42

Right: 0.892+/-0.593 $\chi^2$/NDF: 117.4/33

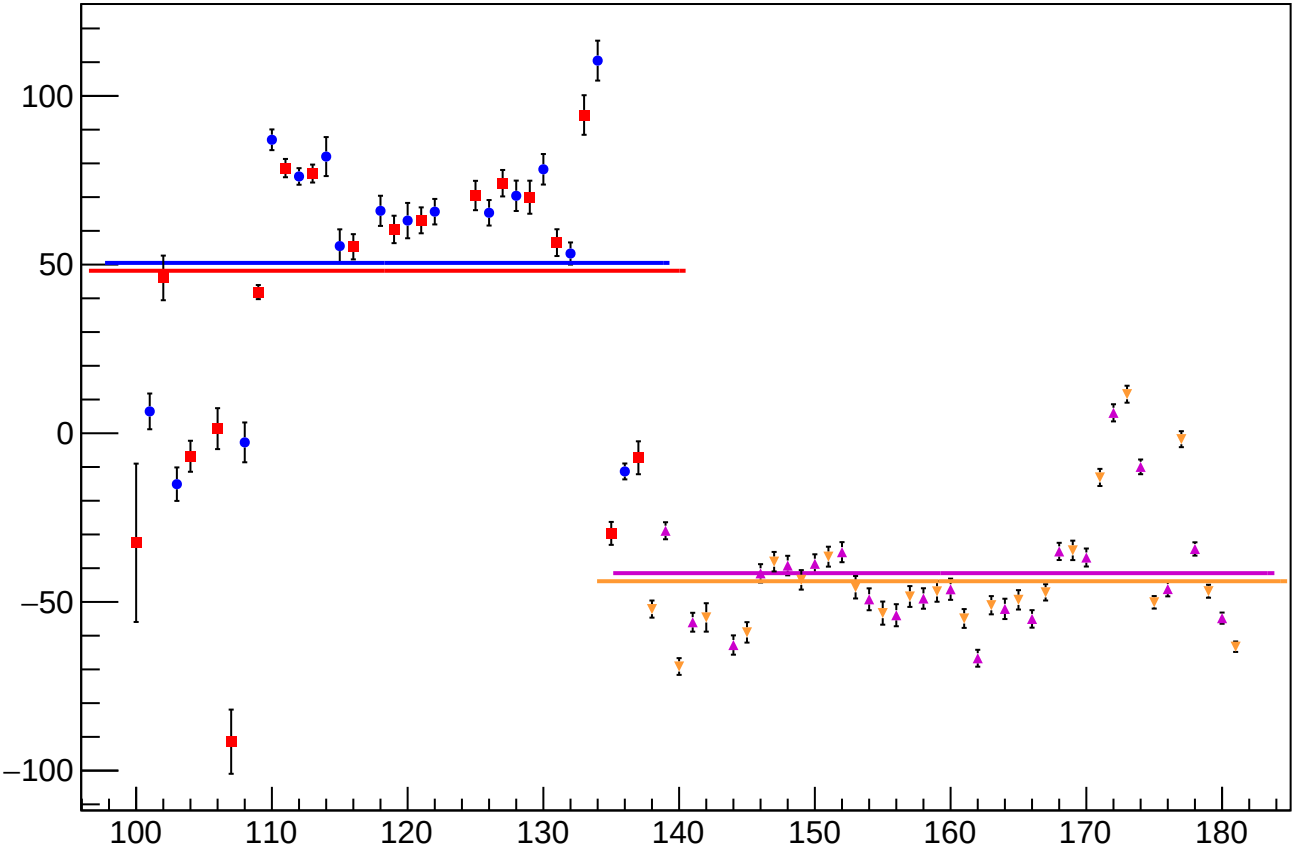
In: -3.136+/-0.341 $\chi^2$/NDF:508.1/36

Out: -3.965+/-0.338 $\chi^2$/NDF:618.1/39

All: -3.555+/-0.240 $\chi^2$/NDF: 1129.1/76


reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
−100
100
110
120
130
140
150
160
170
180
Right In: -6.927+/-0.049 χ²/NDF: 265187.0/15
Left Out: -0.662+/-0.016 χ²/NDF:6851.9/21
Right Out: -4.833+/-0.053 χ²/NDF: 339363.3/17
Left In: -0.568+/-0.017 χ²/NDF:6237.7/20
Left: -0.615+/-0.012 χ²/NDF: 13105.8/42
Right: -5.968+/-0.036 χ²/NDF: 605403.2/33
In: -1.232+/-0.016 χ²/NDF:286802.5/36
Out: -1.032+/-0.016 χ²/NDF:351900.4/39
All: -1.132+/-0.011 χ²/NDF: 638783.8/76

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 50.503+/-0.965 $\chi^2$/NDF: 1503.6/15

Left Out: -43.859+/-0.545 $\chi^2$/NDF:1324.7/21

Right Out: 48.172+/-0.914 $\chi^2$/NDF: 1519.5/17

Left In: -41.467+/-0.558 $\chi^2$/NDF:933.0/20

Left: -42.692+/-0.390 $\chi^2$/NDF: 2267.1/42

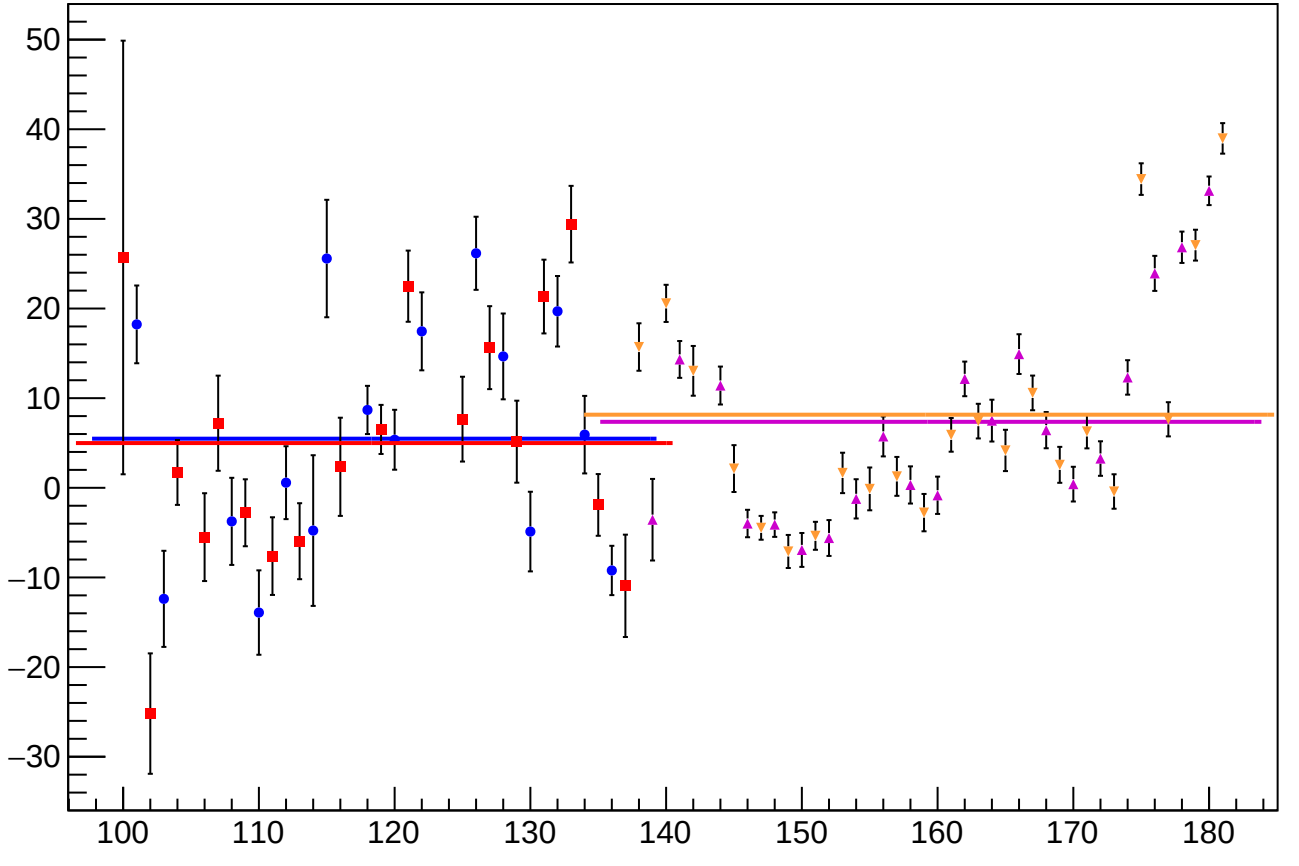
Right: 49.274+/-0.664 $\chi^2$/NDF: 3026.2/33

In: -18.423+/-0.483 $\chi^2$/NDF:9239.2/36

Out: -19.743+/-0.468 $\chi^2$/NDF:10321.2/39

All: -19.104+/-0.336 $\chi^2$/NDF: 19564.3/76

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 5.481+/-1.021 $\chi^2$/NDF: 138.2/15

Left Out: 8.158+/-0.414 $\chi^2$/NDF:1049.7/21

Right Out: 4.992+/-1.023 $\chi^2$/NDF: 131.8/17

Left In: 7.361+/-0.424 $\chi^2$/NDF:786.9/20

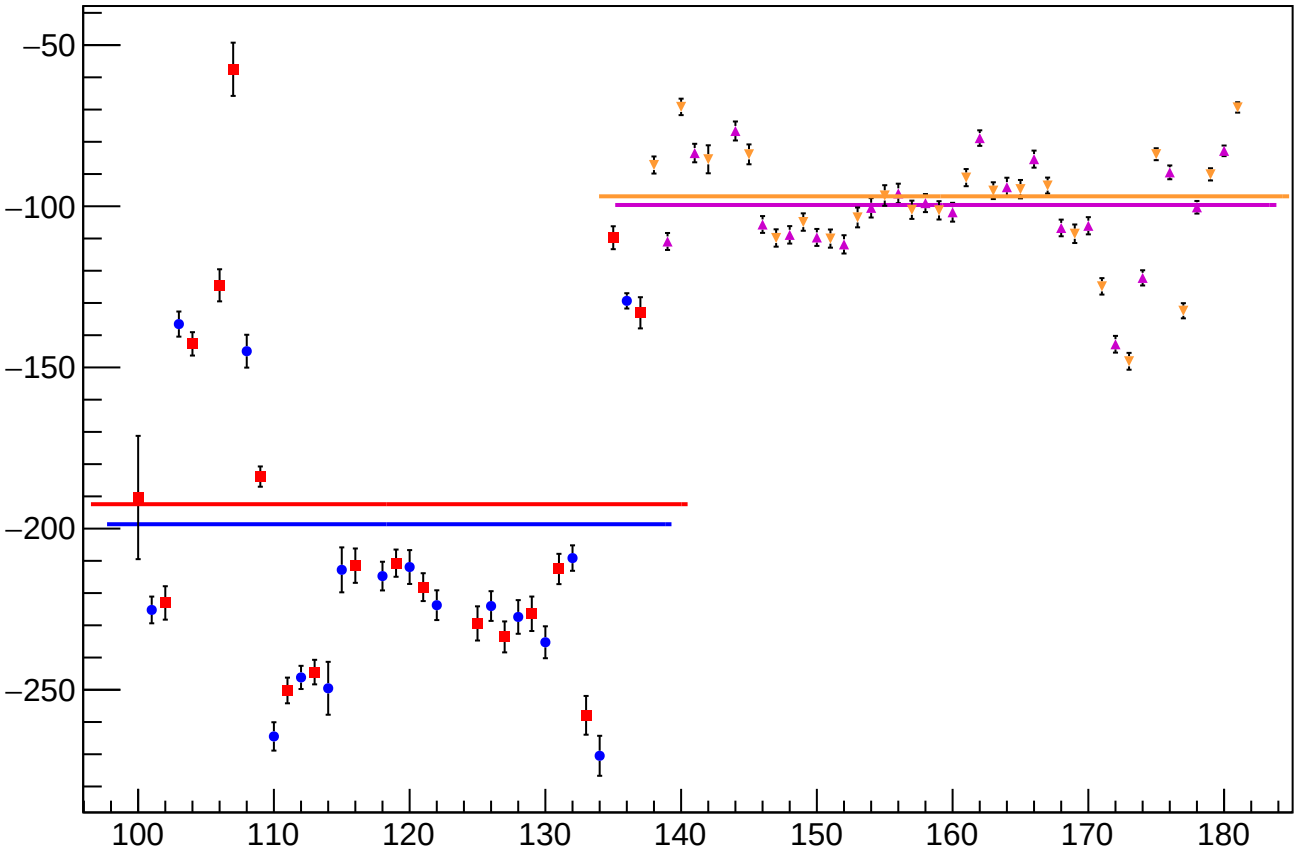
Left: 7.769+/-0.296 $\chi^2$/NDF: 1838.4/42

Right: 5.236+/-0.723 $\chi^2$/NDF: 270.1/33

In: 7.085+/-0.392 $\chi^2$/NDF:928.0/36

Out: 7.711+/-0.384 $\chi^2$/NDF:1189.7/39

All: 7.404+/-0.274 $\chi^2$/NDF: 2119.0/76




Right In: -198.641+/-1.083 $\chi^2$/NDF: 2002.3/15

Left Out: -96.914+/-0.539 $\chi^2$/NDF:1330.7/21

Right Out: -192.426+/-1.080 $\chi^2$/NDF: 2139.0/17

Left In: -99.601+/-0.551 $\chi^2$/NDF:779.1/20

Left: -98.230+/-0.385 $\chi^2$/NDF: 2121.9/42

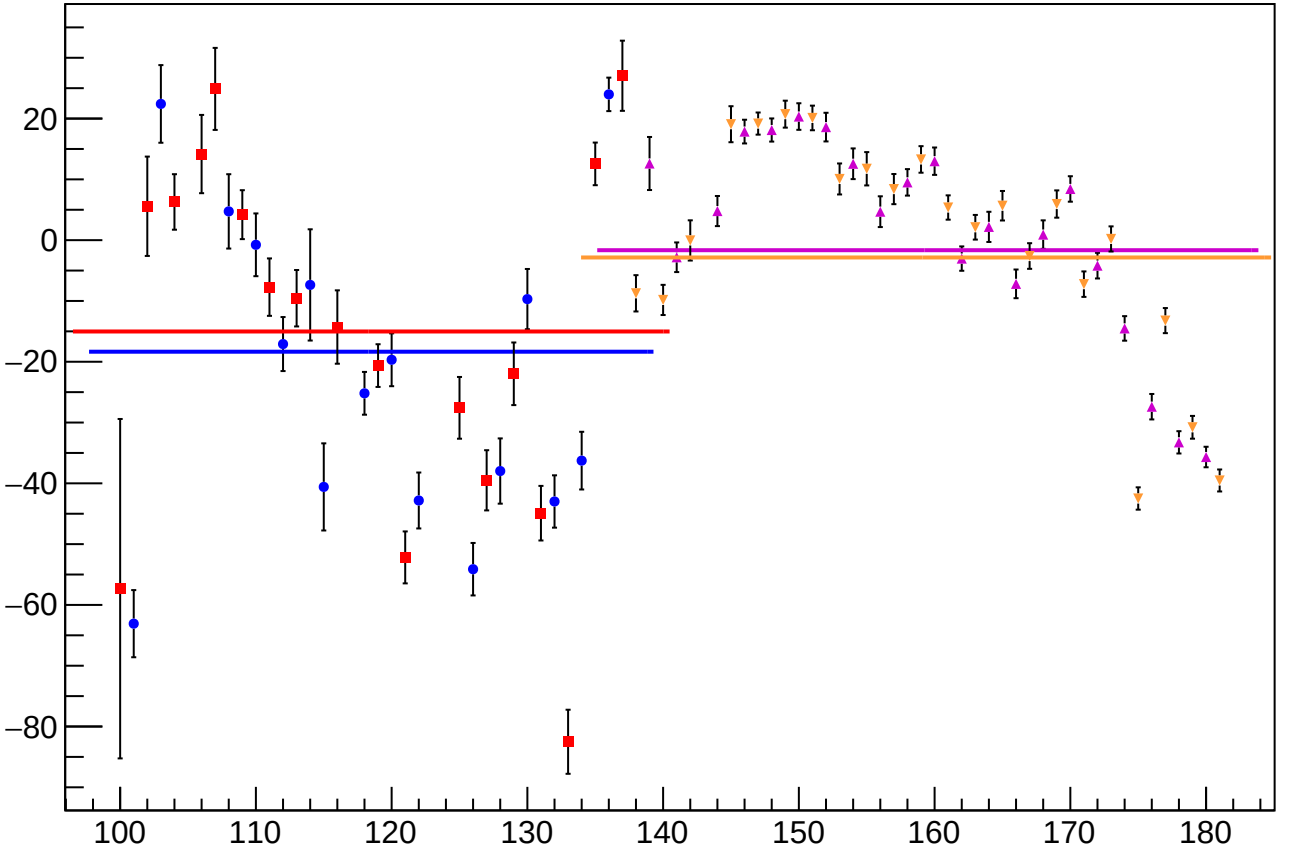
Right: -195.523+/-0.765 $\chi^2$/NDF: 4157.8/33

In: -119.938+/-0.491 $\chi^2$/NDF:9422.4/36

Out: -115.983+/-0.482 $\chi^2$/NDF:9732.5/39

All: -117.926+/-0.344 $\chi^2$/NDF: 19187.8/76

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -18.348+/-1.159 $\chi^2$/NDF: 543.9/15

Left Out: -2.848+/-0.468 $\chi^2$/NDF:1766.7/21

Right Out: -15.021+/-1.162 $\chi^2$/NDF: 546.4/17

Left In: -1.651+/-0.478 $\chi^2$/NDF:1436.7/20

Left: -2.262+/-0.334 $\chi^2$/NDF: 3206.6/42

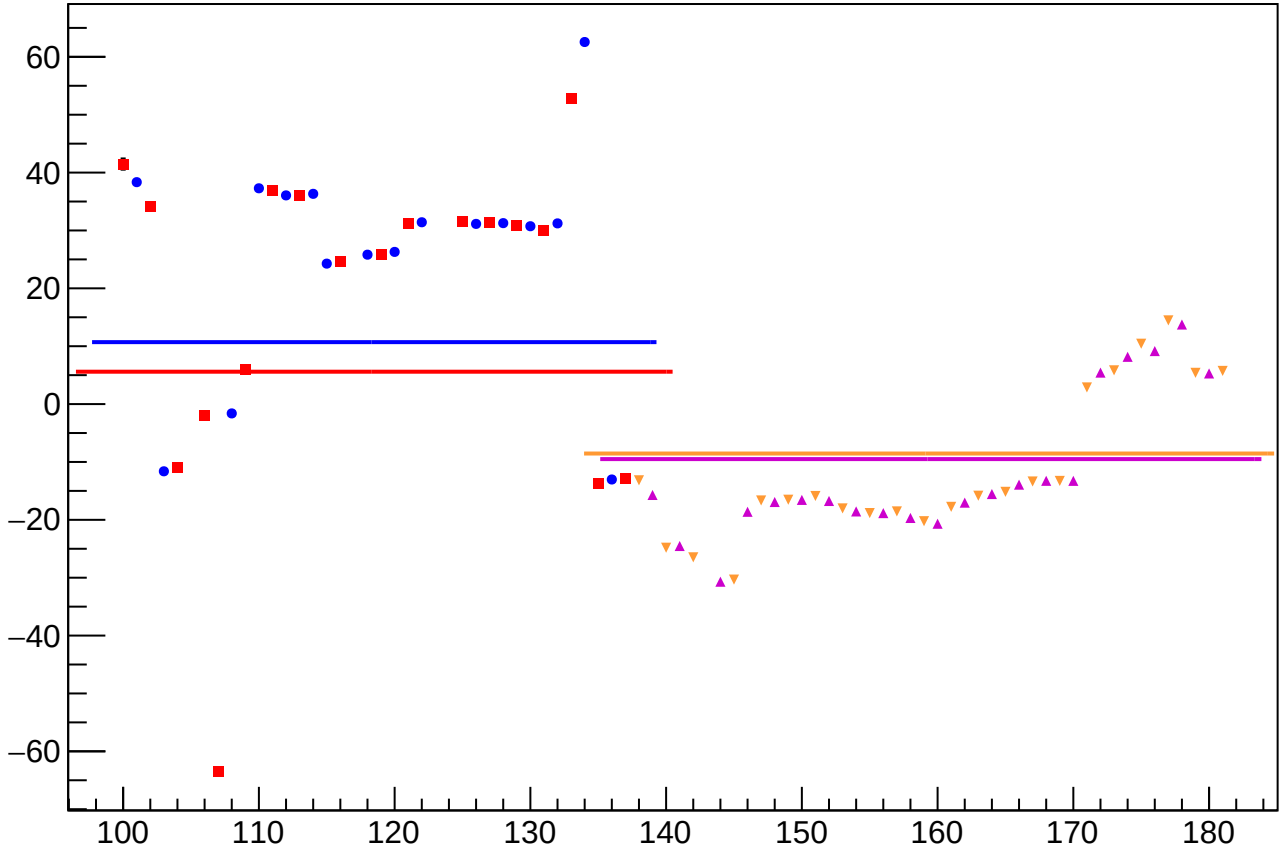
Right: -16.688+/-0.821 $\chi^2$/NDF: 1094.5/33

In: -4.075+/-0.442 $\chi^2$/NDF:2157.9/36

Out: -4.550+/-0.434 $\chi^2$/NDF:2407.6/39

All: -4.317+/-0.310 $\chi^2$/NDF: 4566.1/76

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 10.704+/-0.063 $\chi^2$/NDF: 164860.8/15

Left Out: -8.543+/-0.021 $\chi^2$/NDF:369979.7/21

Right Out: 5.595+/-0.064 $\chi^2$/NDF: 154966.4/17

Left In: -9.506+/-0.021 $\chi^2$/NDF:348797.8/20

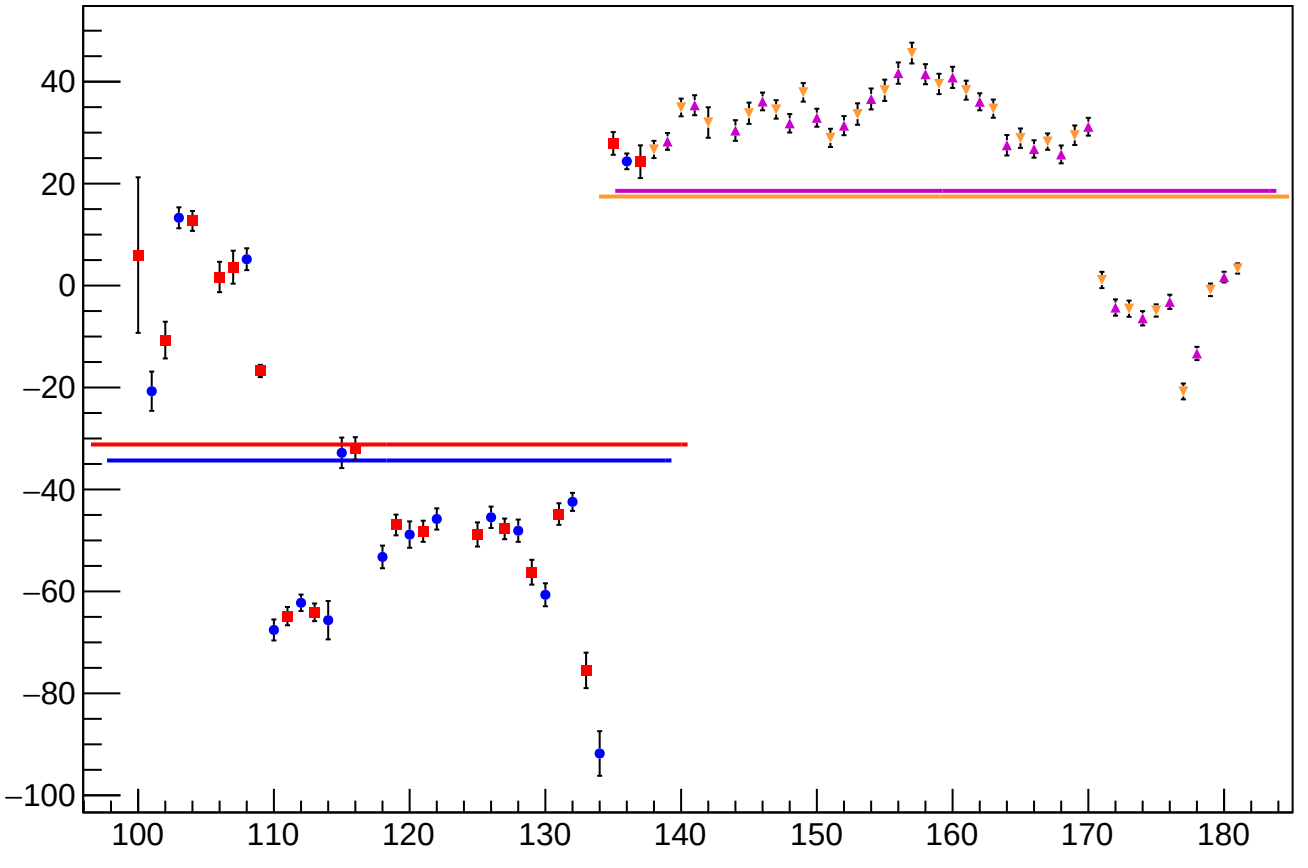
Left: -9.022+/-0.015 $\chi^2$/NDF: 719819.0/42

Right: 8.178+/-0.045 $\chi^2$/NDF: 323087.7/33

In: -7.454+/-0.020 $\chi^2$/NDF:606403.7/36

Out: -7.149+/-0.020 $\chi^2$/NDF:569470.2/39

All: -7.301+/-0.014 $\chi^2$/NDF: 1175989.9/76




Right In: -34.315+/-0.548 $\chi^2$/NDF: 3500.2/15

Left Out: 17.465+/-0.355 $\chi^2$/NDF:2940.8/21

Right Out: -31.175+/-0.516 $\chi^2$/NDF: 3200.4/17

Left In: 18.581+/-0.363 $\chi^2$/NDF:2709.7/20

Left: 18.010+/-0.254 $\chi^2$/NDF: 5655.3/42

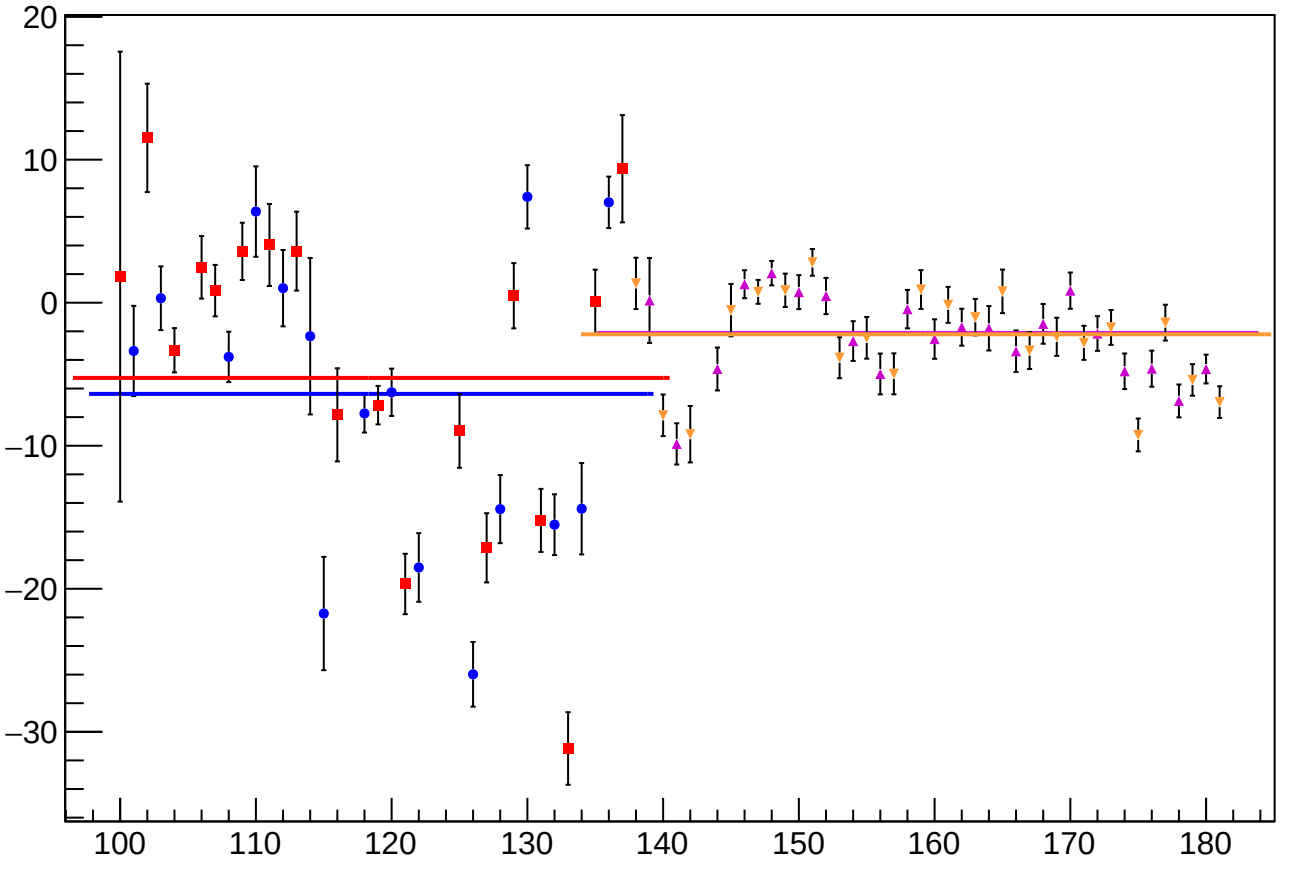
Right: -32.651+/-0.375 $\chi^2$/NDF: 6718.0/33

In: 2.443+/-0.303 $\chi^2$/NDF:12689.8/36

Out: 1.846+/-0.292 $\chi^2$/NDF:12179.7/39

All: 2.134+/-0.210 $\chi^2$/NDF: 24871.5/76

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -6.375+/-0.554 $\chi^2$/NDF: 283.6/15

Left Out: -2.209+/-0.268 $\chi^2$/NDF:164.8/21

Right Out: -5.256+/-0.533 $\chi^2$/NDF: 312.9/17

Left In: -2.125+/-0.275 $\chi^2$/NDF:122.7/20

Left: -2.168+/-0.192 $\chi^2$/NDF: 287.6/42

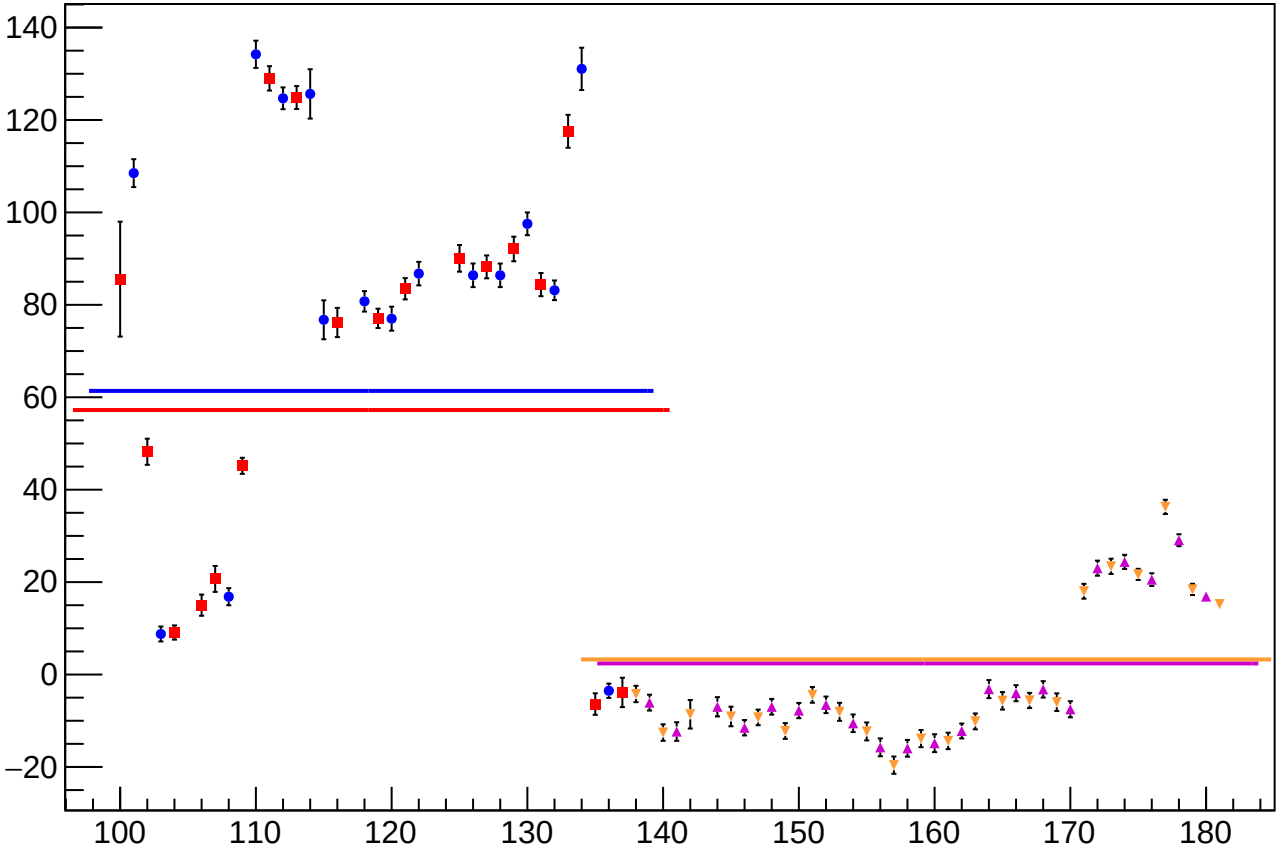
Right: -5.794+/-0.384 $\chi^2$/NDF: 598.6/33

In: -2.967+/-0.246 $\chi^2$/NDF:453.6/36

Out: -2.826+/-0.240 $\chi^2$/NDF:503.9/39

All: -2.894+/-0.172 $\chi^2$/NDF: 957.6/76

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 61.377+/-0.594 $\chi^2$/NDF: 6066.8/15

Left Out: 3.269+/-0.351 $\chi^2$/NDF:2079.1/21

Right Out: 57.240+/-0.580 $\chi^2$/NDF: 5267.5/17

Left In: 2.402+/-0.358 $\chi^2$/NDF:1890.4/20

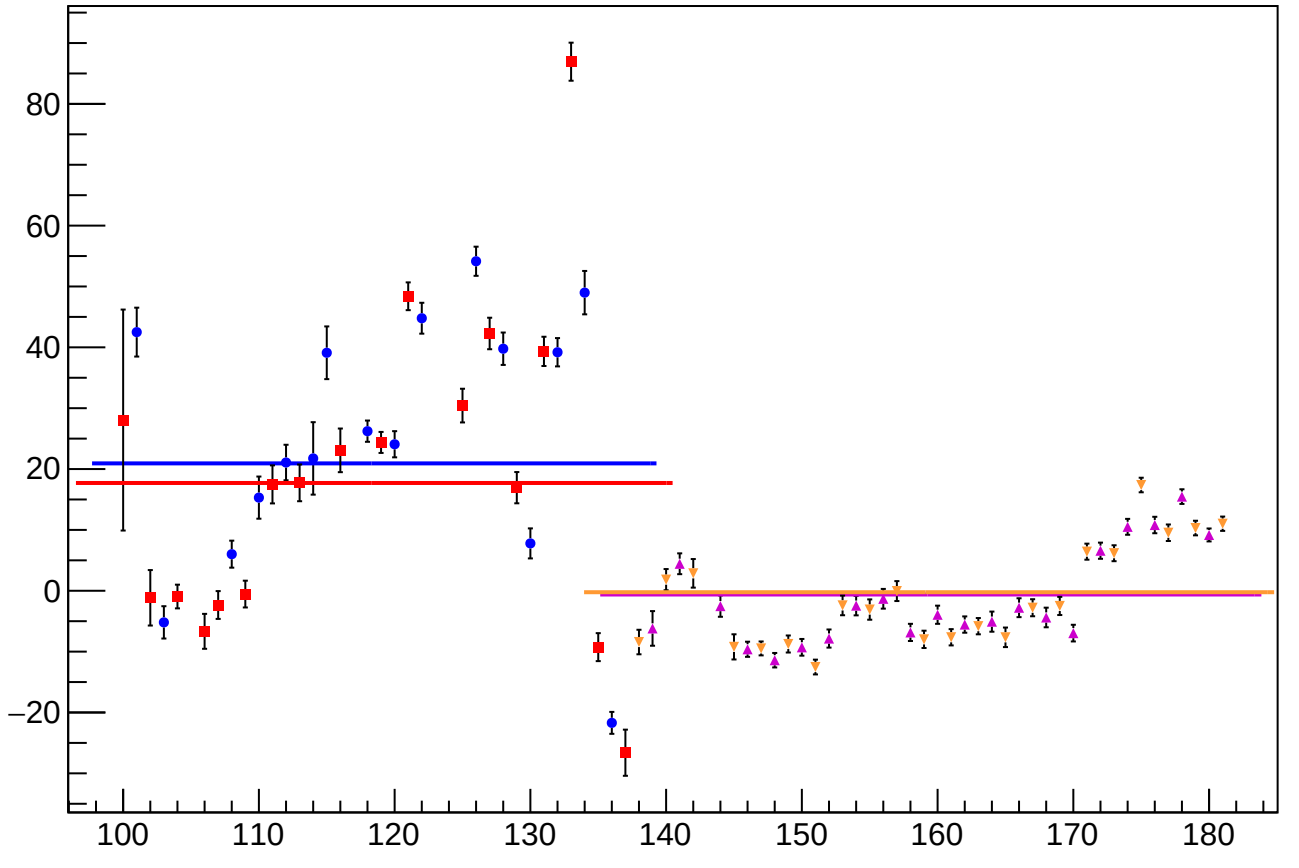
Left: 2.844+/-0.250 $\chi^2$/NDF: 3972.6/42

Right: 59.259+/-0.415 $\chi^2$/NDF: 11359.0/33

In: 18.089+/-0.307 $\chi^2$/NDF:15185.1/36

Out: 17.708+/-0.300 $\chi^2$/NDF:13684.9/39

All: 17.895+/-0.214 $\chi^2$/NDF: 28870.8/76




Right In: 20.931+/-0.640 $\chi^2$/NDF: 1245.4/15

Left Out: -0.239+/-0.304 $\chi^2$/NDF:839.6/21

Right Out: 17.711+/-0.618 $\chi^2$/NDF: 1481.9/17

Left In: -0.614+/-0.310 $\chi^2$/NDF:724.0/20

Left: -0.422+/-0.217 $\chi^2$/NDF: 1564.3/42

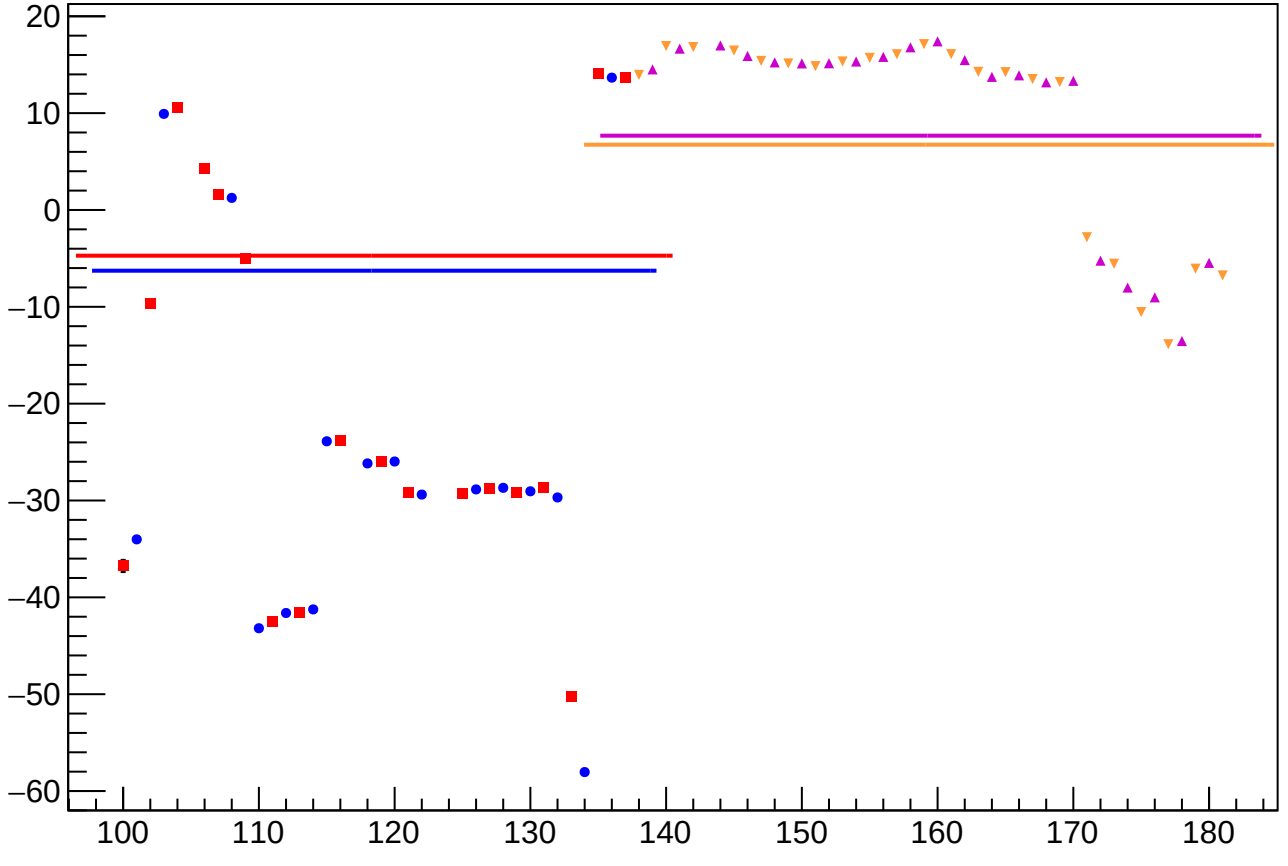
Right: 19.265+/-0.445 $\chi^2$/NDF: 2740.4/33

In: 3.488+/-0.279 $\chi^2$/NDF:2886.5/36

Out: 3.253+/-0.273 $\chi^2$/NDF:3000.8/39

All: 3.367+/-0.195 $\chi^2$/NDF: 5887.7/76

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -6.271+/-0.033 $\chi^2$/NDF: 410461.0/15

Left Out: 6.740+/-0.014 $\chi^2$/NDF:675957.7/21

Right Out: -4.720+/-0.034 $\chi^2$/NDF: 306663.6/17

Left In: 7.672+/-0.014 $\chi^2$/NDF:644750.0/20

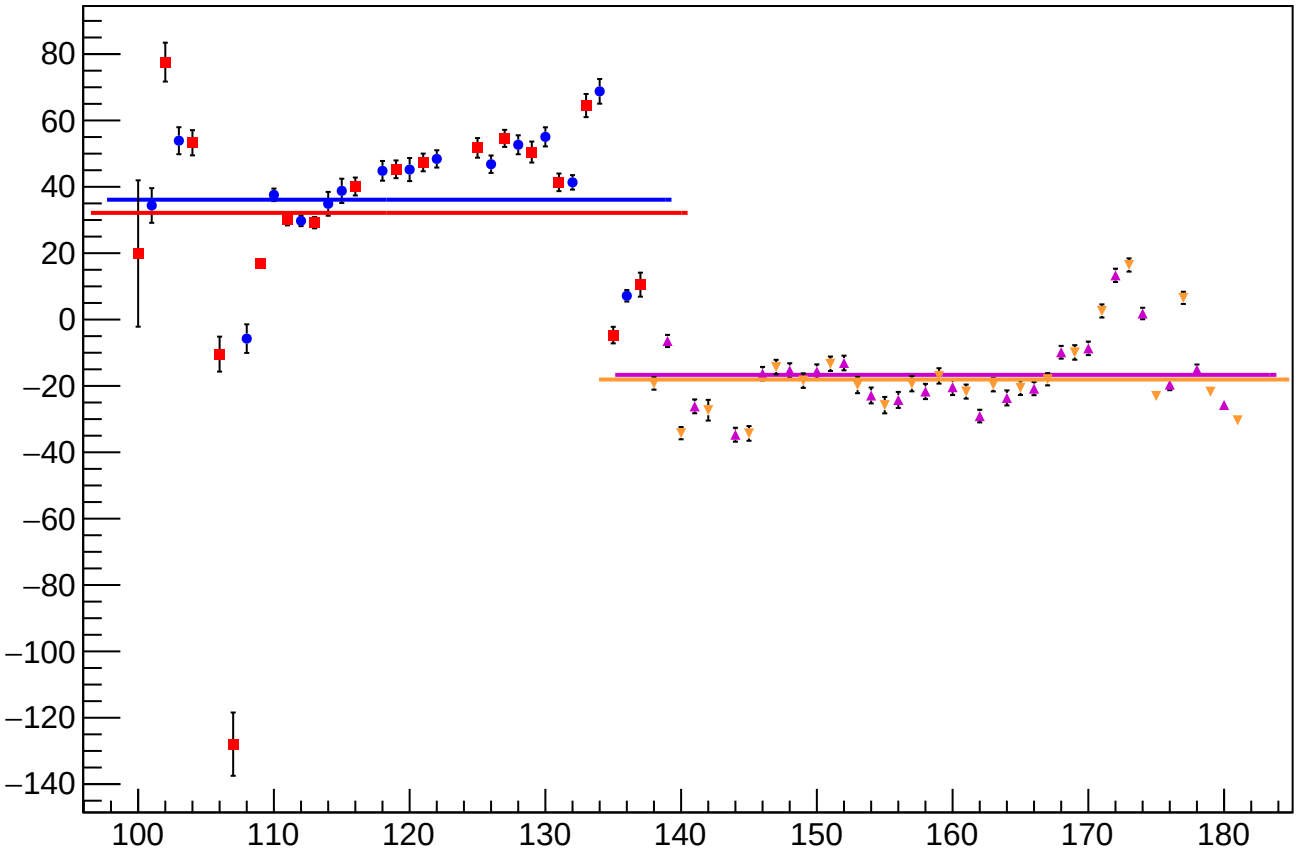
Left: 7.204+/-0.010 $\chi^2$/NDF: 1323021.9/42

Right: -5.502+/-0.024 $\chi^2$/NDF: 718193.1/33

In: 5.657+/-0.013 $\chi^2$/NDF:1204148.5/36

Out: 5.121+/-0.013 $\chi^2$/NDF:1081994.6/39

All: 5.388+/-0.009 $\chi^2$/NDF: 2287034.2/76




Right In: 36.118+/-0.656 $\chi^2$/NDF: 622.8/15

Left Out: -18.070+/-0.417 $\chi^2$/NDF:880.6/21

Right Out: 32.150+/-0.631 $\chi^2$/NDF: 1114.6/17

Left In: -16.667+/-0.426 $\chi^2$/NDF:624.7/20

Left: -17.385+/-0.298 $\chi^2$/NDF: 1510.8/42

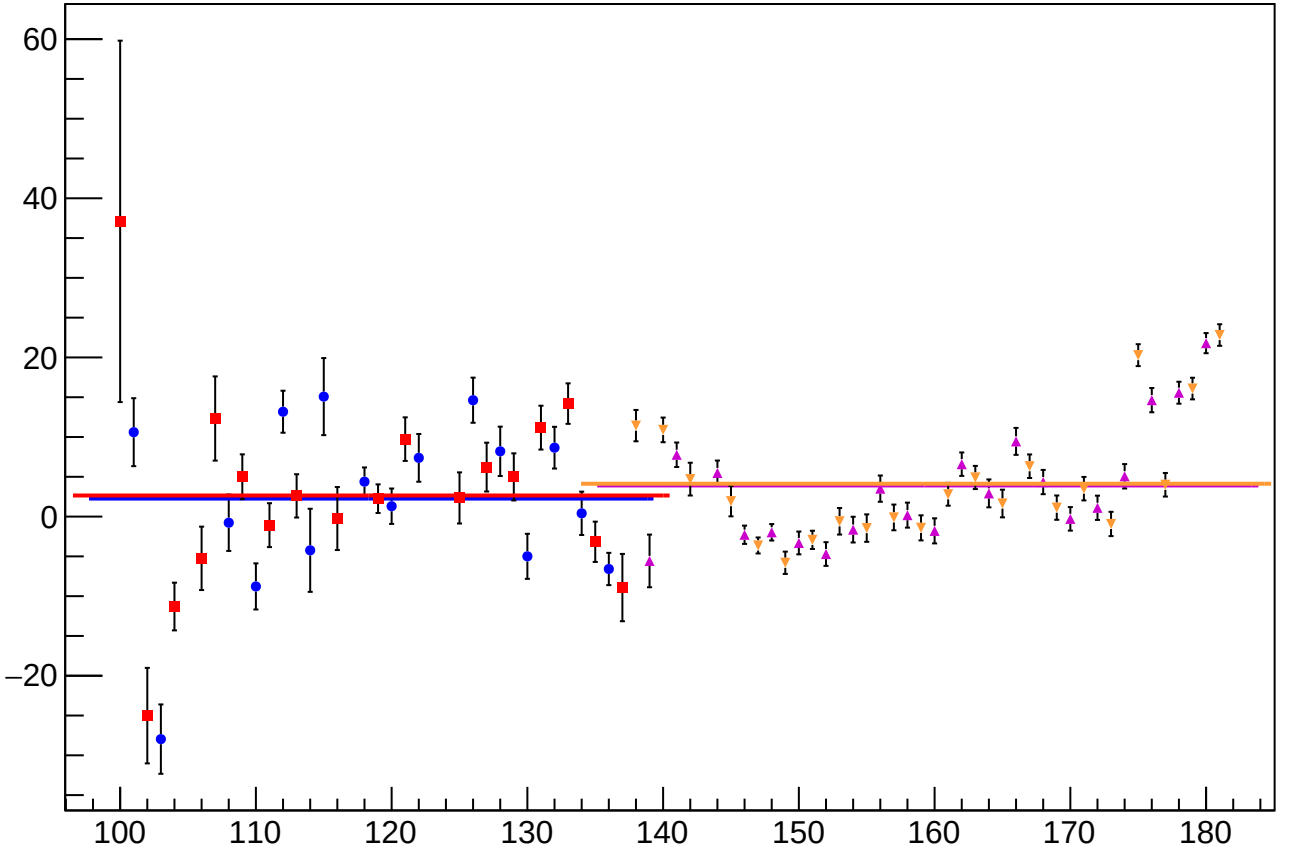
Right: 34.055+/-0.455 $\chi^2$/NDF: 1756.4/33

In: -1.004+/-0.358 $\chi^2$/NDF:5795.0/36

Out: -2.809+/-0.348 $\chi^2$/NDF:6409.9/39

All: -1.932+/-0.249 $\chi^2$/NDF: 12218.1/76

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 2.265+/-0.701 $\chi^2$/NDF: 152.0/15

Left Out: 4.129+/-0.315 $\chi^2$/NDF:645.1/21

Right Out: 2.651+/-0.715 $\chi^2$/NDF: 107.2/17

Left In: 3.914+/-0.323 $\chi^2$/NDF:513.7/20

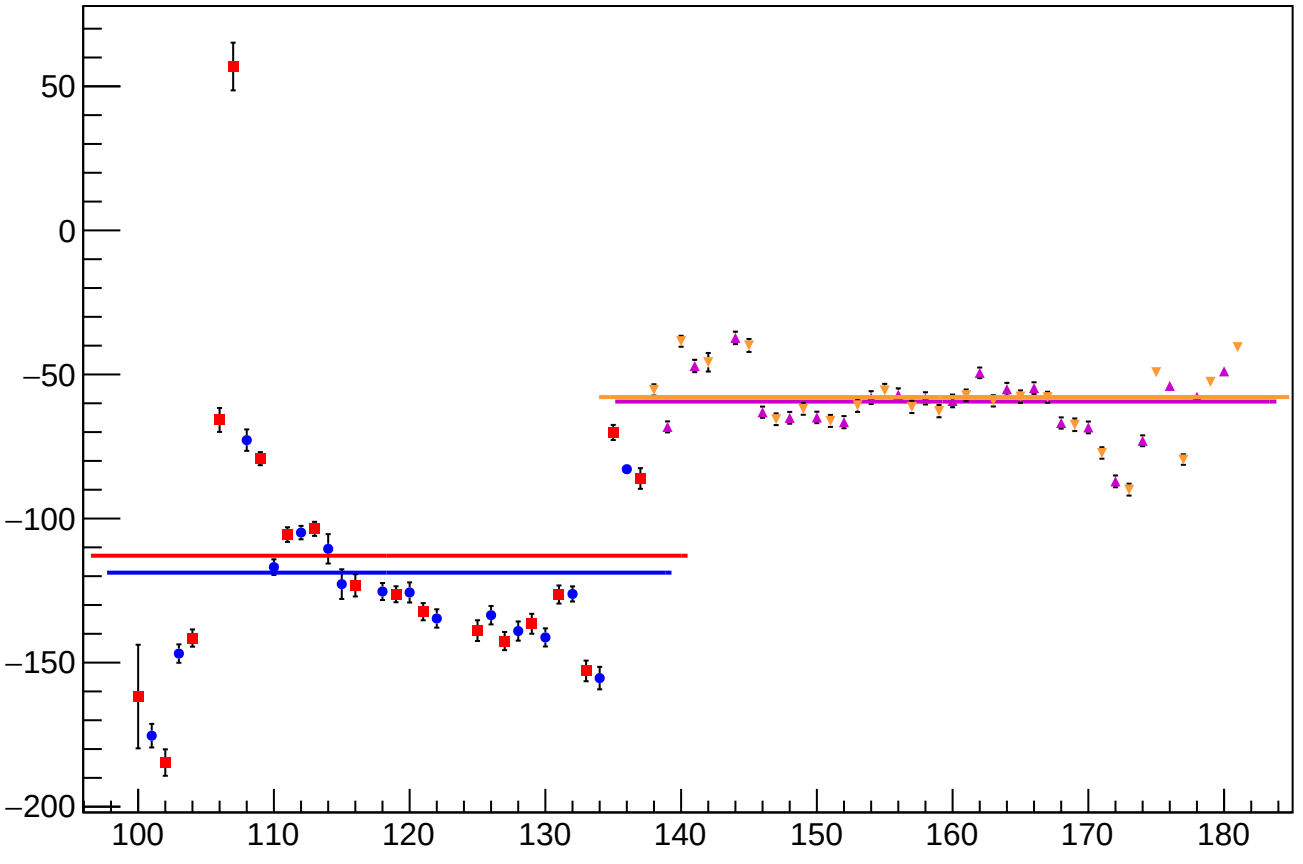
Left: 4.024+/-0.226 $\chi^2$/NDF: 1159.0/42

Right: 2.454+/-0.501 $\chi^2$/NDF: 259.4/33

In: 3.625+/-0.293 $\chi^2$/NDF:670.2/36

Out: 3.888+/-0.289 $\chi^2$/NDF:755.9/39

All: 3.759+/-0.206 $\chi^2$/NDF: 1426.6/76




Right In: -118.778+/-0.757 $\chi^2$/NDF: 1119.5/15

Left Out: -57.847+/-0.412 $\chi^2$/NDF:953.4/21

Right Out: -112.899+/-0.761 $\chi^2$/NDF: 1862.9/17

Left In: -59.412+/-0.420 $\chi^2$/NDF:575.1/20

Left: -58.614+/-0.294 $\chi^2$/NDF: 1535.5/42

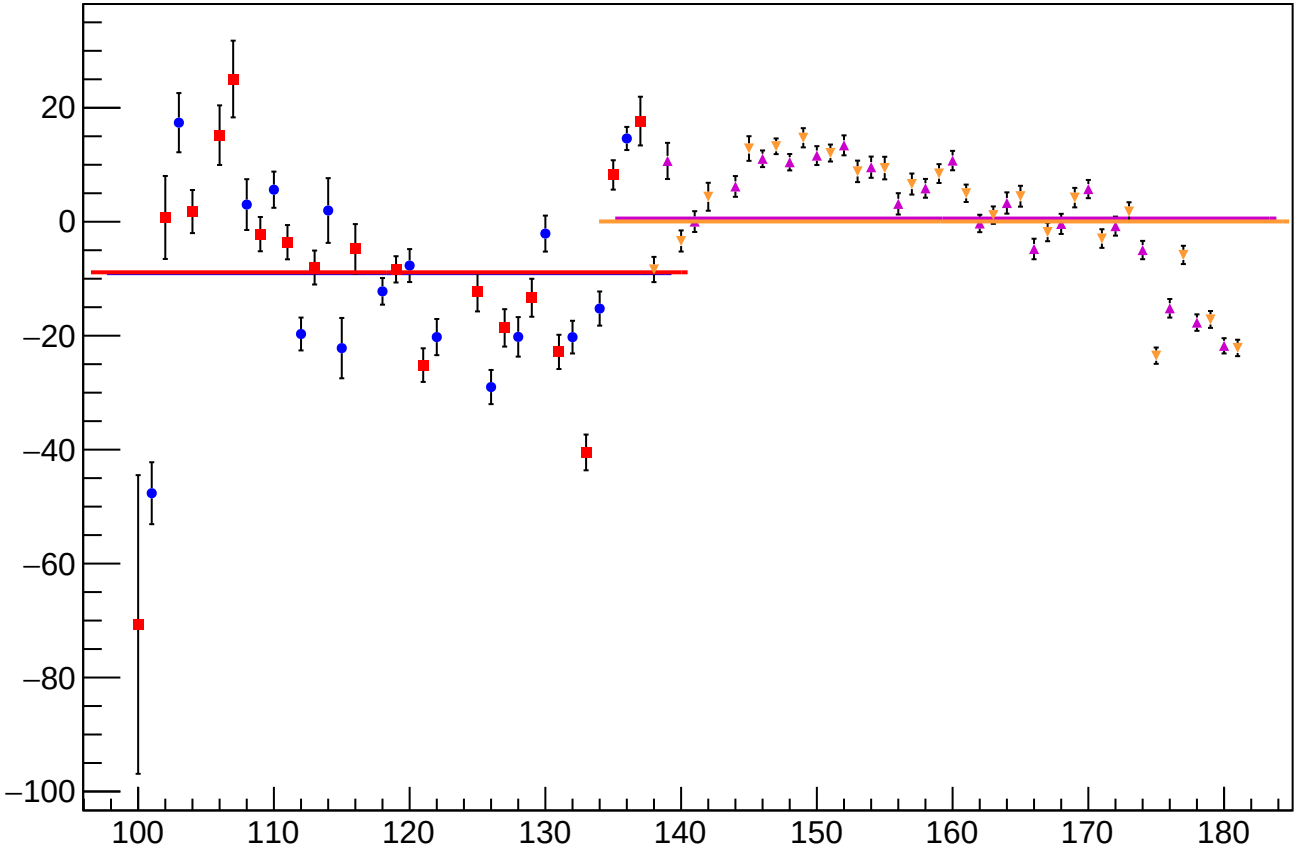
Right: -115.855+/-0.537 $\chi^2$/NDF: 3012.4/33

In: -73.410+/-0.368 $\chi^2$/NDF:6396.8/36

Out: -70.328+/-0.362 $\chi^2$/NDF:6863.5/39

All: -71.847+/-0.258 $\chi^2$/NDF: 13295.9/76

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -9.022+/-0.796 $\chi^2$/NDF: 358.0/15

Left Out: 0.050+/-0.357 $\chi^2$/NDF:1056.8/21

Right Out: -8.878+/-0.810 $\chi^2$/NDF: 318.7/17

Left In: 0.558+/-0.365 $\chi^2$/NDF:854.4/20

Left: 0.299+/-0.255 $\chi^2$/NDF: 1912.1/42

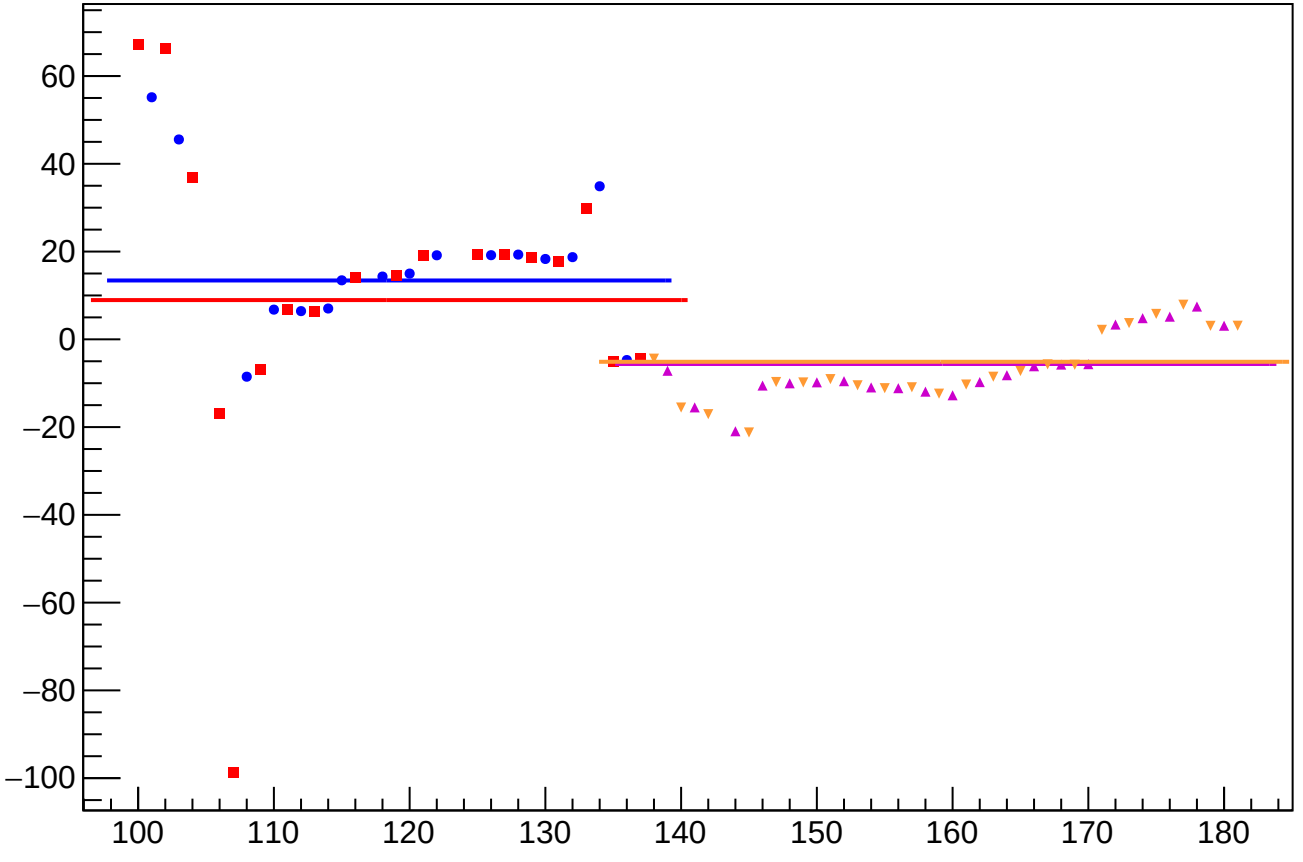
Right: -8.951+/-0.568 $\chi^2$/NDF: 676.8/33

In: -1.105+/-0.331 $\chi^2$/NDF:1332.2/36

Out: -1.401+/-0.327 $\chi^2$/NDF:1477.1/39

All: -1.255+/-0.233 $\chi^2$/NDF: 2809.7/76

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 13.412+/-0.045 $\chi^2$/NDF: 183707.4/15

Left Out: -5.119+/-0.016 $\chi^2$/NDF:224025.0/21

Right Out: 8.943+/-0.047 $\chi^2$/NDF: 291126.5/17

Left In: -5.619+/-0.016 $\chi^2$/NDF:204441.1/20

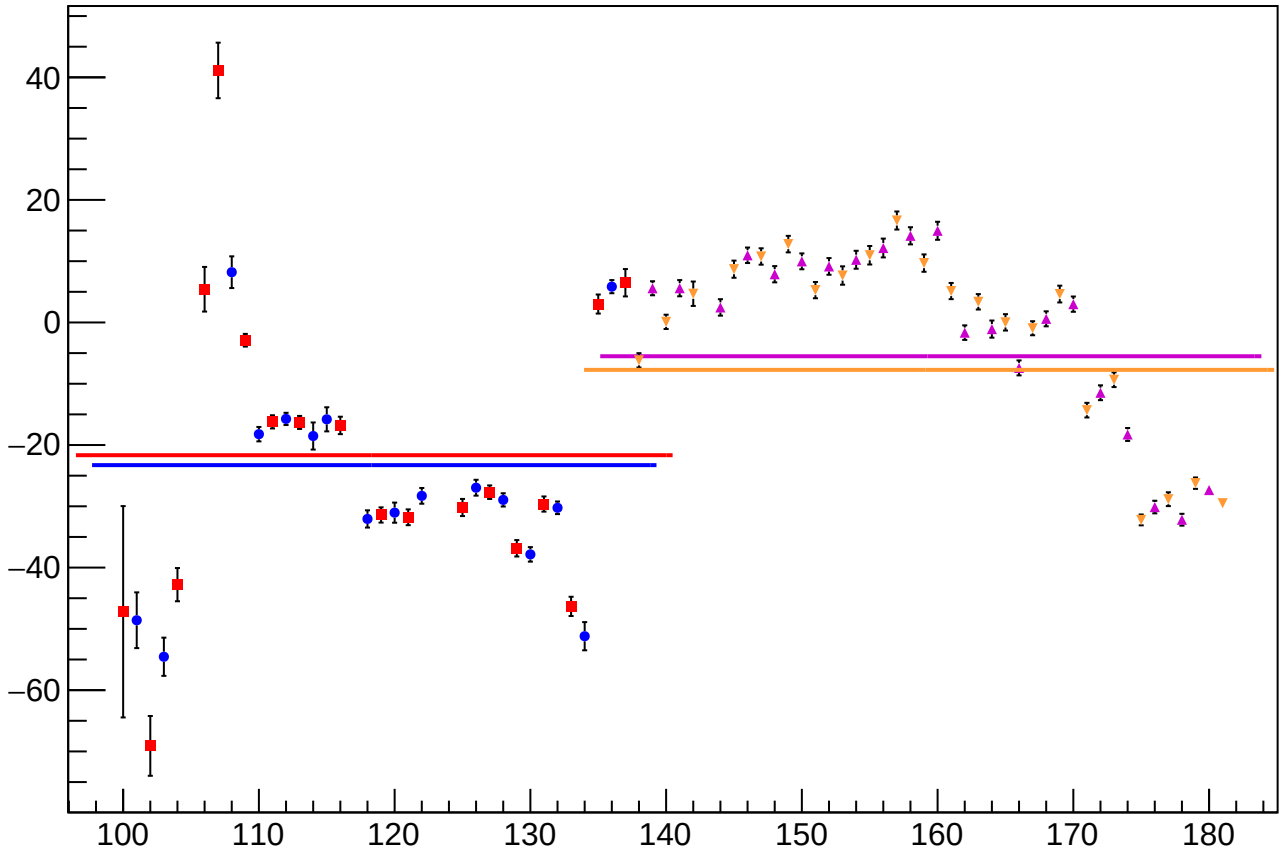
Left: -5.368+/-0.011 $\chi^2$/NDF: 428950.2/42

Right: 11.280+/-0.033 $\chi^2$/NDF: 479481.6/33

In: -3.482+/-0.015 $\chi^2$/NDF:544950.0/36

Out: -3.677+/-0.015 $\chi^2$/NDF:594140.4/39

All: -3.580+/-0.011 $\chi^2$/NDF: 1139172.7/76




Right In: -23.281+/-0.350 $\chi^2$/NDF: 1567.9/15

Left Out: -7.734+/-0.257 $\chi^2$/NDF:4116.5/21

Right Out: -21.660+/-0.347 $\chi^2$/NDF: 1813.6/17

Left In: -5.511+/-0.263 $\chi^2$/NDF:3723.2/20

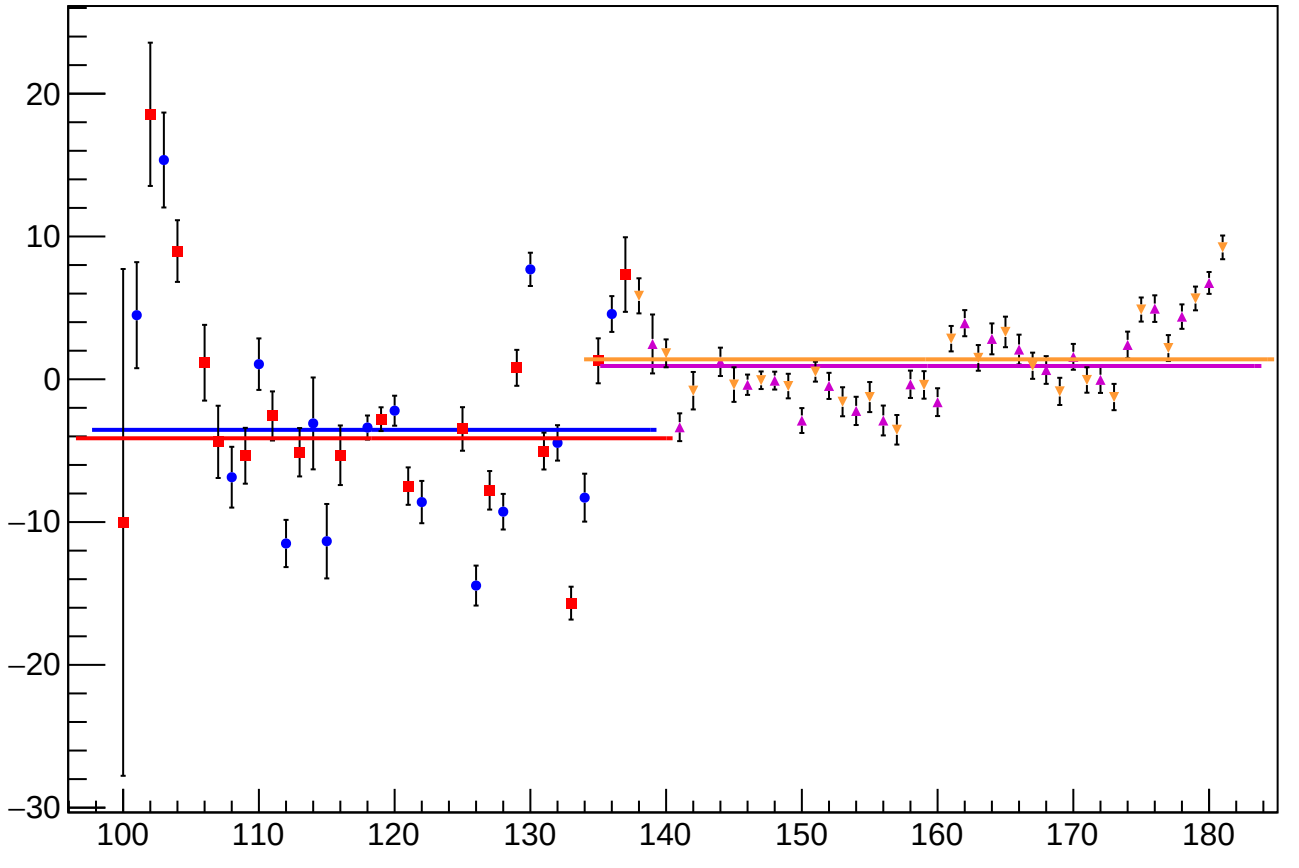
Left: -6.649+/-0.184 $\chi^2$/NDF: 7876.3/42

Right: -22.463+/-0.247 $\chi^2$/NDF: 3392.3/33

In: -11.912+/-0.210 $\chi^2$/NDF:6936.7/36

Out: -12.656+/-0.206 $\chi^2$/NDF:6969.4/39

All: -12.290+/-0.147 $\chi^2$/NDF: 13912.5/76




Right In: -3.541+/-0.363 $\chi^2$/NDF: 316.8/15

Left Out: 1.397+/-0.194 $\chi^2$/NDF:227.1/21

Right Out: -4.132+/-0.371 $\chi^2$/NDF: 227.4/17

Left In: 0.930+/-0.199 $\chi^2$/NDF:191.4/20

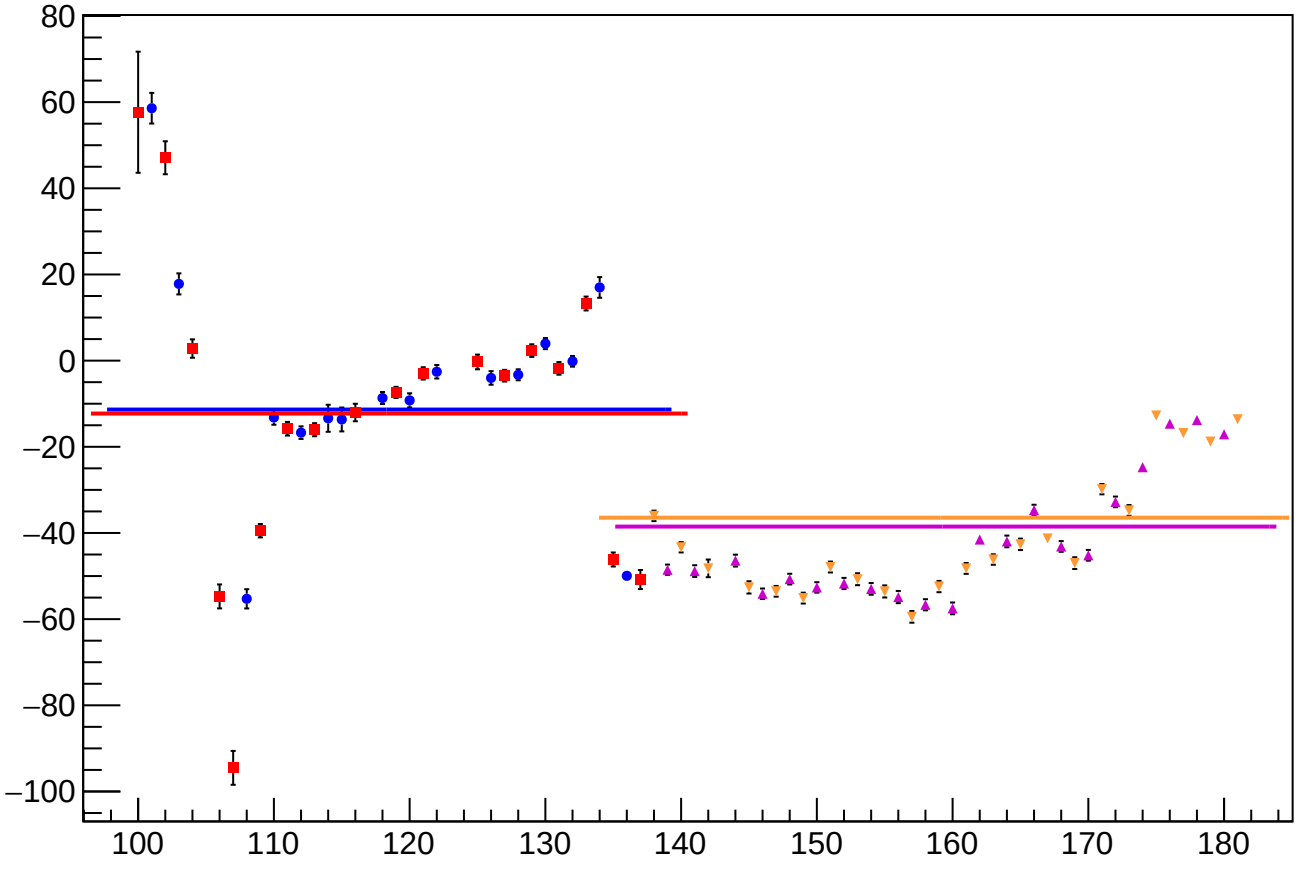
Left: 1.170+/-0.139 $\chi^2$/NDF: 421.3/42

Right: -3.830+/-0.259 $\chi^2$/NDF: 545.5/33

In: -0.105+/-0.174 $\chi^2$/NDF:625.0/36

Out: 0.207+/-0.172 $\chi^2$/NDF:629.1/39

All: 0.053+/-0.122 $\chi^2$/NDF: 1255.7/76




Right In: -11.355+/-0.406 $\chi^2$/NDF: 2661.6/15

Left Out: -36.451+/-0.254 $\chi^2$/NDF:3901.8/21

Right Out: -12.281+/-0.413 $\chi^2$/NDF: 2590.4/17

Left In: -38.519+/-0.259 $\chi^2$/NDF:3489.0/20

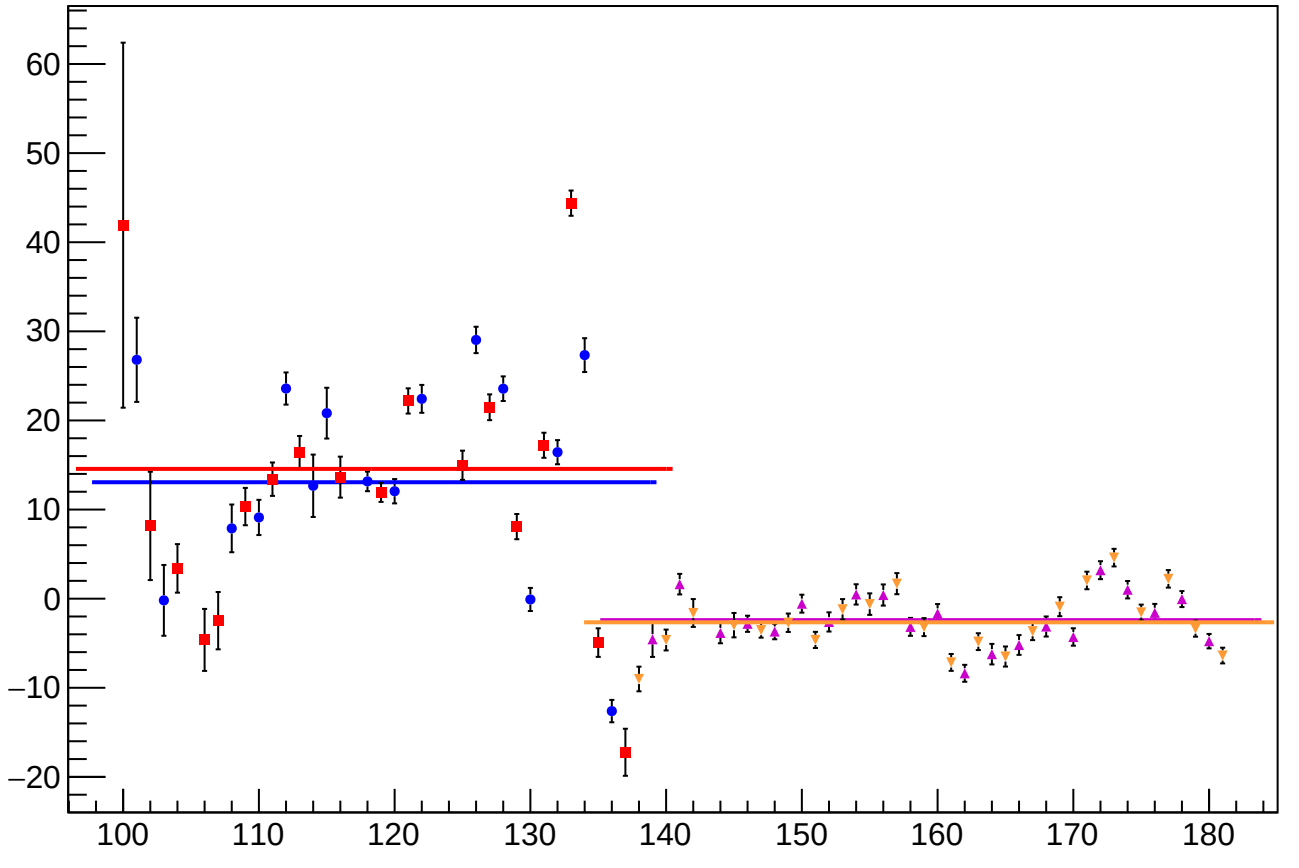
Left: -37.464+/-0.181 $\chi^2$/NDF: 7423.3/42

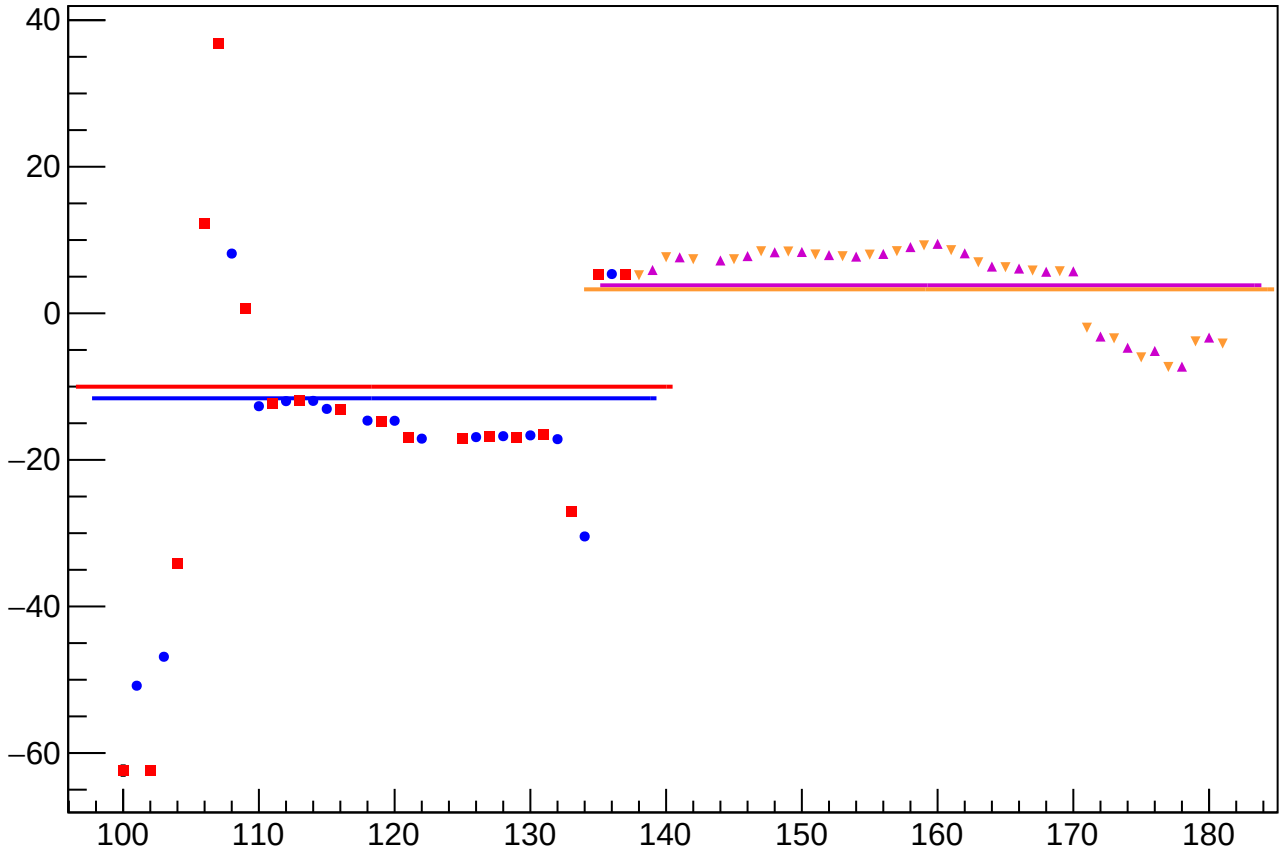
Right: -11.809+/-0.289 $\chi^2$/NDF: 5254.6/33

In: -30.646+/-0.218 $\chi^2$/NDF:9334.7/36

Out: -29.825+/-0.216 $\chi^2$/NDF:8976.5/39

All: -30.232+/-0.154 $\chi^2$/NDF: 18318.3/76


reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
60
50
40
30
20
10
0
−10
−20
100
110
120
130
140
150
160
170
180
Right In: 13.066+/-0.415 χ²/NDF: 863.4/15
Left Out: -2.652+/-0.220 χ²/NDF:213.1/21
Right Out: 14.563+/-0.423 χ²/NDF: 903.1/17
Left In: -2.408+/-0.225 χ²/NDF:154.0/20
Left: -2.533+/-0.157 χ²/NDF: 367.7/42
Right: 13.801+/-0.296 χ²/NDF: 1772.9/33
In: 1.102+/-0.198 χ²/NDF:2093.8/36
Out: 1.016+/-0.195 χ²/NDF:2422.7/39
All: 1.059+/-0.139 χ²/NDF: 4516.6/76




Right In: -11.596+/-0.026 $\chi^2$/NDF: 360523.2/15

Left Out: 3.272+/-0.010 $\chi^2$/NDF:352178.4/21

Right Out: -10.012+/-0.027 $\chi^2$/NDF: 396286.9/17

Left In: 3.818+/-0.010 $\chi^2$/NDF:327153.0/20

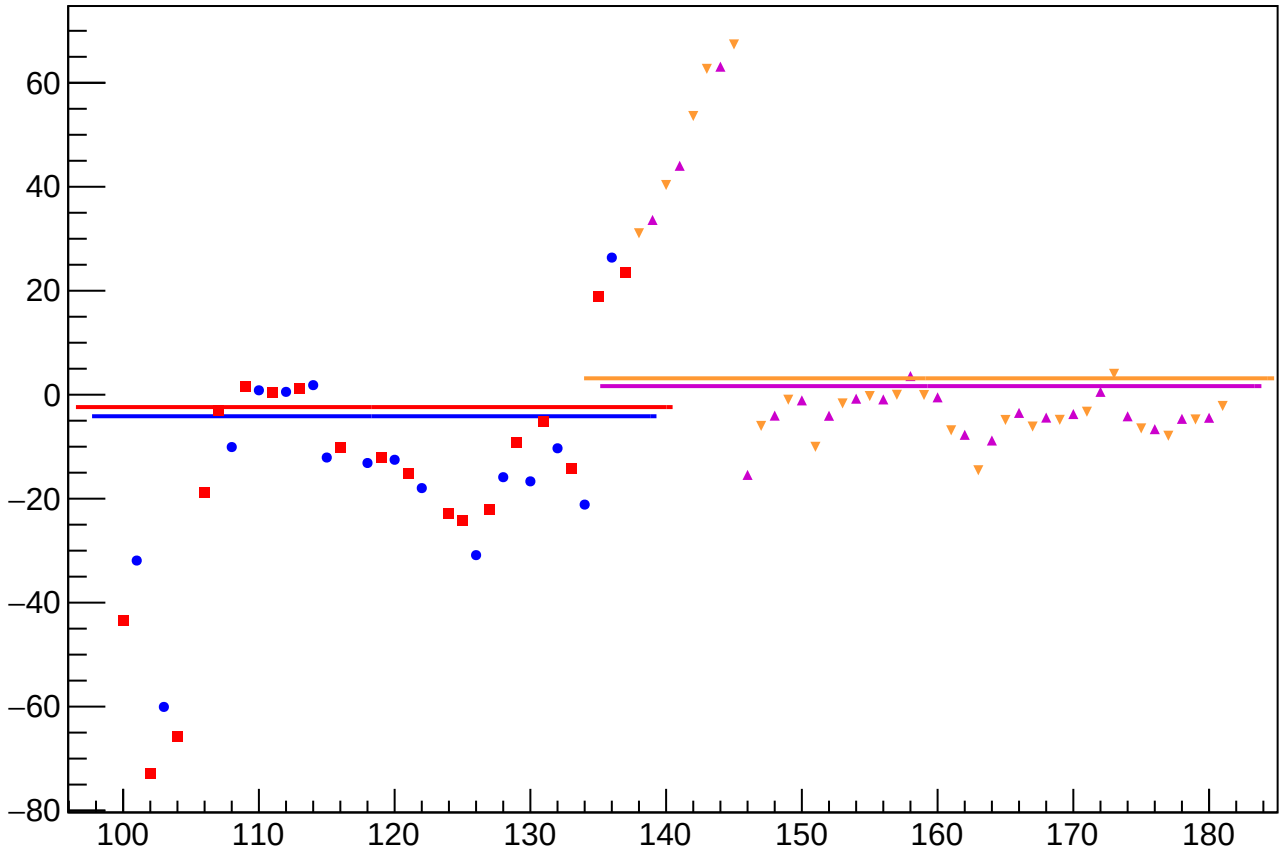
Left: 3.543+/-0.007 $\chi^2$/NDF: 680853.0/42

Right: -10.837+/-0.019 $\chi^2$/NDF: 758546.1/33

In: 1.896+/-0.009 $\chi^2$/NDF:988109.5/36

Out: 1.749+/-0.009 $\chi^2$/NDF:955868.4/39

All: 1.822+/-0.007 $\chi^2$/NDF: 1944103.4/76




Right In: -4.145+/-0.055 $\chi^2$/NDF: 75262.7/15

Left Out: 3.152+/-0.043 $\chi^2$/NDF:174450.7/22

Right Out: -2.382+/-0.046 $\chi^2$/NDF: 80749.3/18

Left In: 1.651+/-0.043 $\chi^2$/NDF:130731.6/20

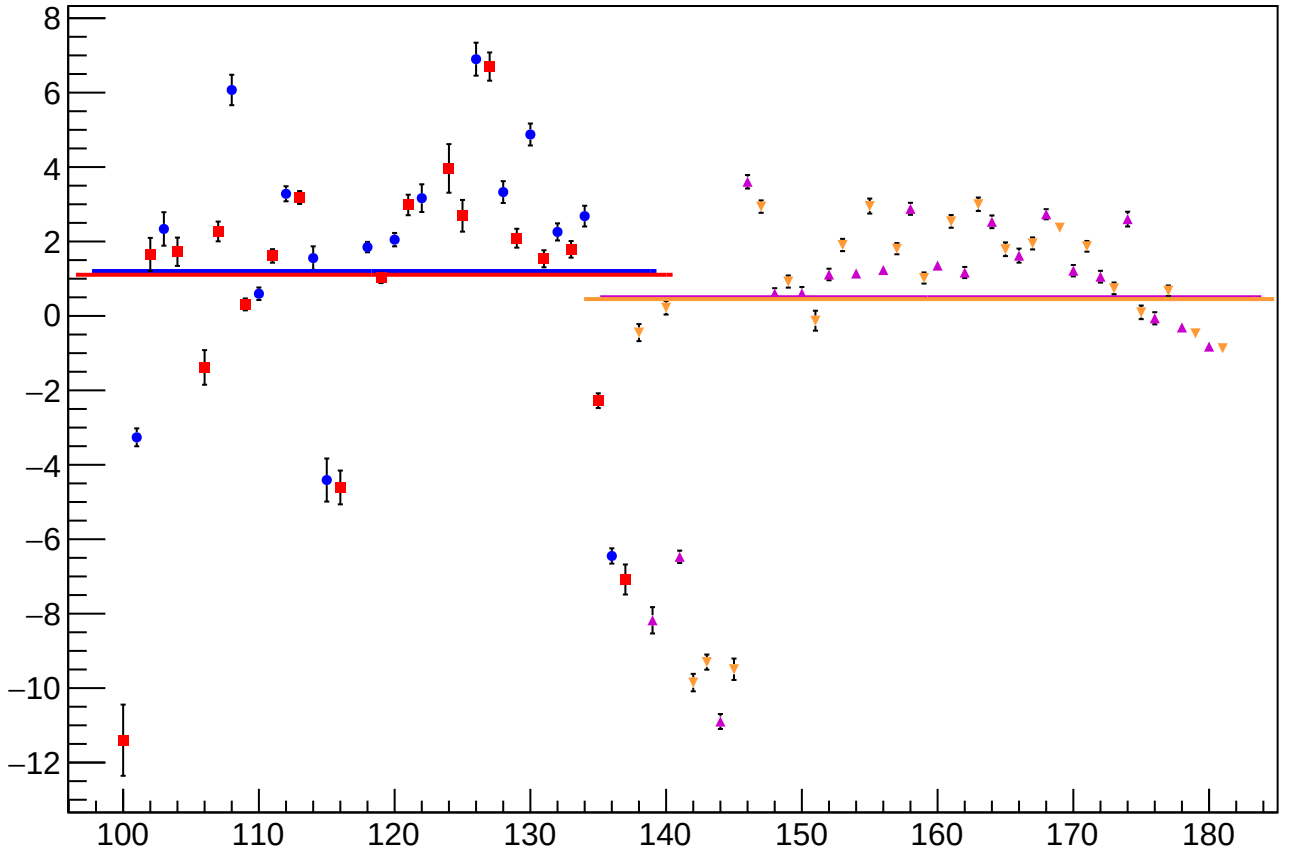
Left: 2.397+/-0.031 $\chi^2$/NDF: 305783.0/43

Right: -3.115+/-0.035 $\chi^2$/NDF: 156619.4/34

In: -0.576+/-0.034 $\chi^2$/NDF:212912.0/36

Out: 0.552+/-0.032 $\chi^2$/NDF:262826.9/41

All: 0.027+/-0.023 $\chi^2$/NDF: 476331.0/78




Right In: 1.206+/-0.060 $\chi^2$/NDF: 2584.4/15

Left Out: 0.453+/-0.035 $\chi^2$/NDF:6977.5/22

Right Out: 1.106+/-0.057 $\chi^2$/NDF: 1587.2/18

Left In: 0.502+/-0.033 $\chi^2$/NDF:7002.6/20

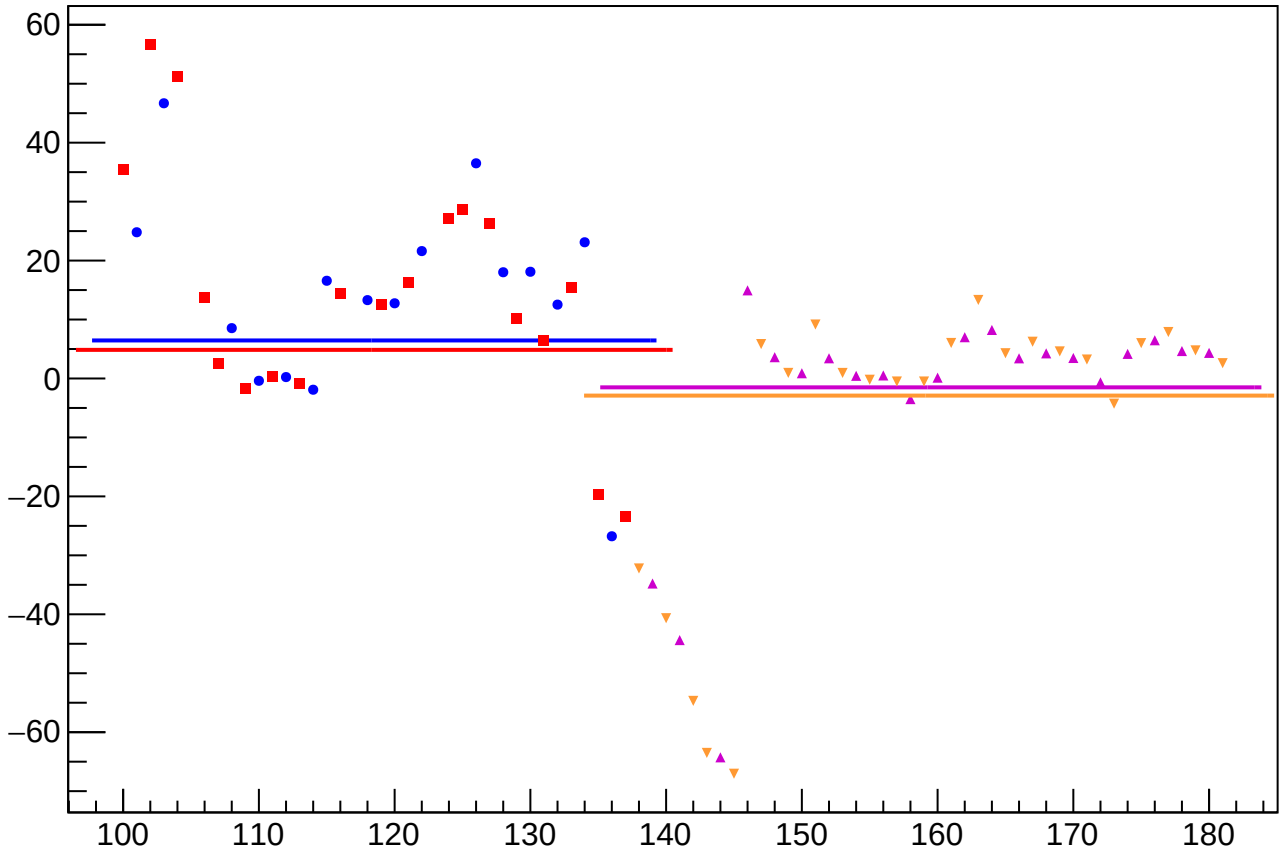
Left: 0.479+/-0.024 $\chi^2$/NDF: 13981.2/43

Right: 1.153+/-0.042 $\chi^2$/NDF: 4173.1/34

In: 0.663+/-0.029 $\chi^2$/NDF:9691.8/36

Out: 0.628+/-0.030 $\chi^2$/NDF:8660.1/41

All: 0.646+/-0.021 $\chi^2$/NDF: 18352.6/78




Right In: 6.453+/-0.065 $\chi^2$/NDF: 70671.1/15

Left Out: -2.903+/-0.043 $\chi^2$/NDF:168854.1/22

Right Out: 4.854+/-0.059 $\chi^2$/NDF: 75267.0/18

Left In: -1.505+/-0.042 $\chi^2$/NDF:127537.0/20

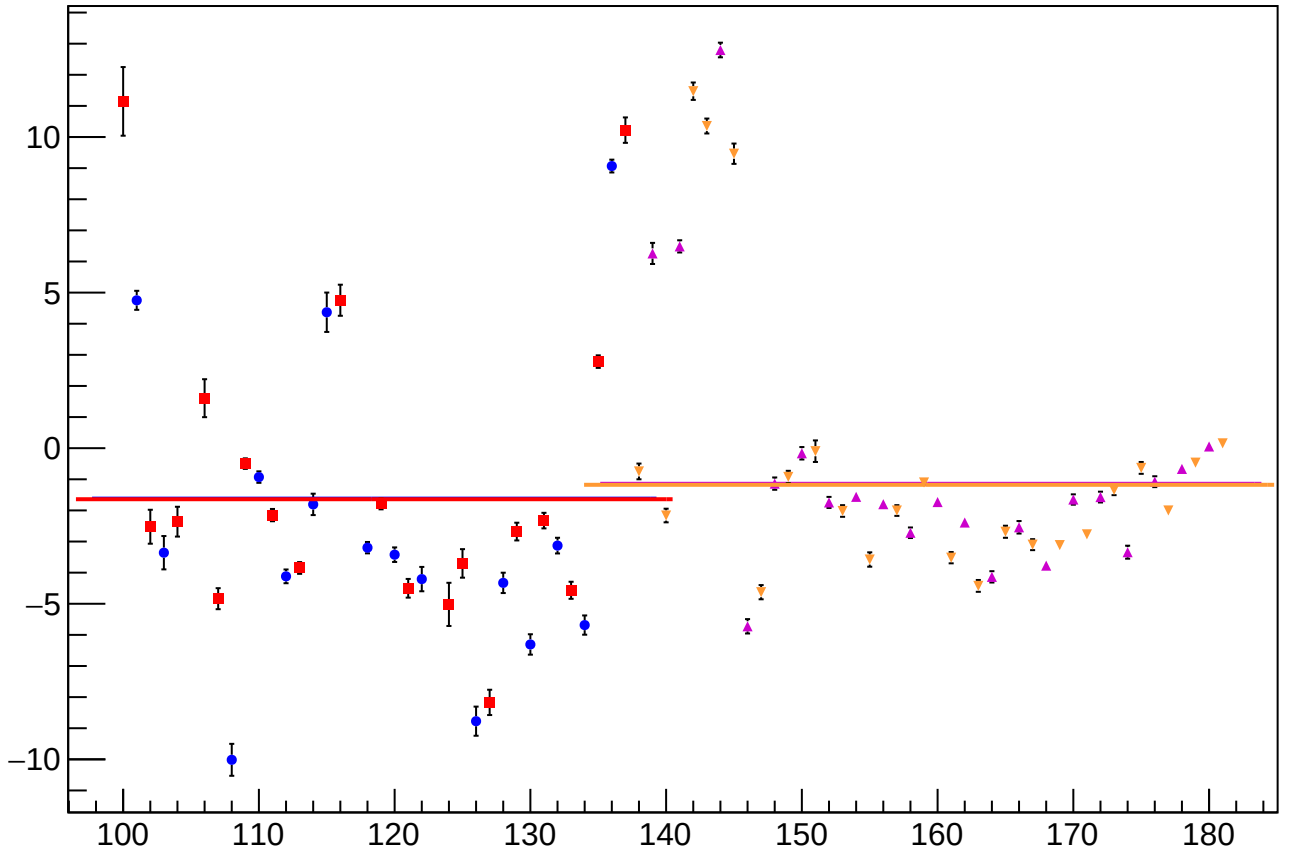
Left: -2.188+/-0.030 $\chi^2$/NDF: 296926.8/43

Right: 5.576+/-0.044 $\chi^2$/NDF: 146268.1/34

In: 0.847+/-0.035 $\chi^2$/NDF:208698.9/36

Out: -0.205+/-0.035 $\chi^2$/NDF:255334.6/41

All: 0.312+/-0.025 $\chi^2$/NDF: 464480.6/78




Right In: -1.622+/-0.070 $\chi^2$/NDF: 4525.3/15

Left Out: -1.177+/-0.038 $\chi^2$/NDF:6926.6/22

Right Out: -1.640+/-0.065 $\chi^2$/NDF: 2462.1/18

Left In: -1.145+/-0.037 $\chi^2$/NDF:6938.1/20

Left: -1.160+/-0.027 $\chi^2$/NDF: 13865.0/43

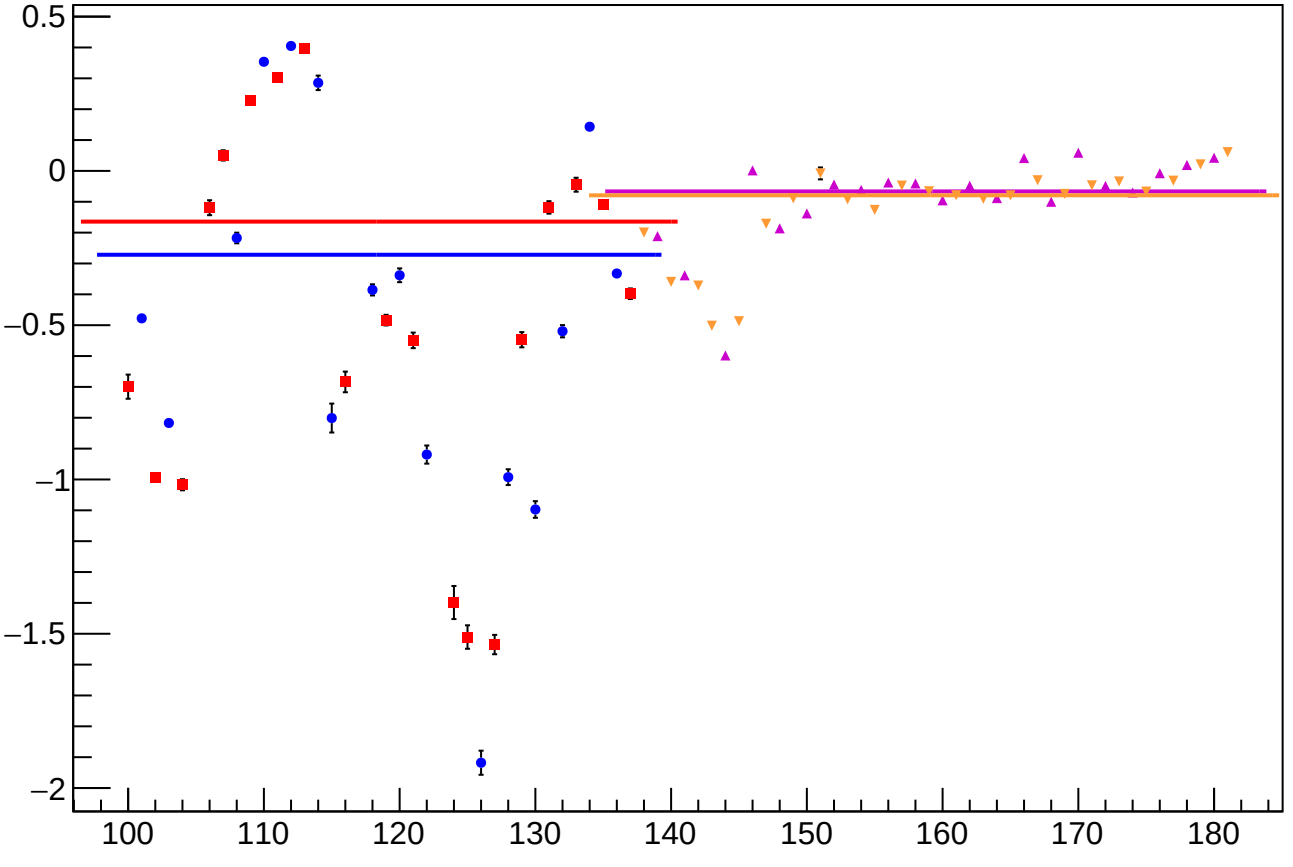
Right: -1.632+/-0.047 $\chi^2$/NDF: 6987.4/34

In: -1.248+/-0.032 $\chi^2$/NDF:11500.2/36

Out: -1.298+/-0.033 $\chi^2$/NDF:9426.8/41

All: -1.273+/-0.023 $\chi^2$/NDF: 20928.1/78

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.272+/-0.004 $\chi^2$/NDF: 12048.2/15

Left Out: -0.079+/-0.002 $\chi^2$/NDF:4786.0/22

Right Out: -0.164+/-0.004 $\chi^2$/NDF: 15497.0/18

Left In: -0.066+/-0.002 $\chi^2$/NDF:4328.5/20

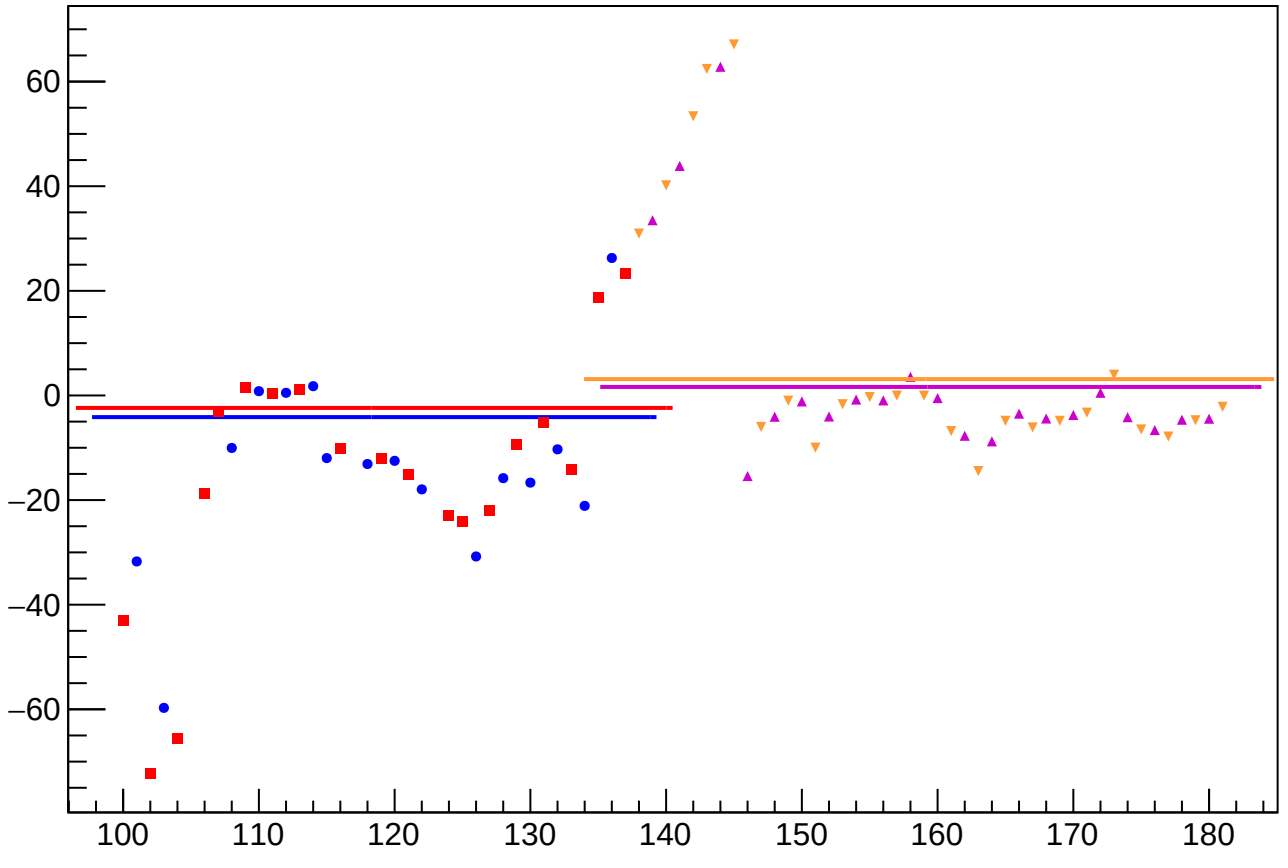
Left: -0.072+/-0.001 $\chi^2$/NDF: 9144.5/43

Right: -0.213+/-0.003 $\chi^2$/NDF: 27909.3/34

In: -0.092+/-0.001 $\chi^2$/NDF:18514.0/36

Out: -0.093+/-0.002 $\chi^2$/NDF:20703.8/41

All: -0.093+/-0.001 $\chi^2$/NDF: 39218.1/78




Right In: -4.139+/-0.054 $\chi^2$/NDF: 75240.1/15

Left Out: 3.127+/-0.043 $\chi^2$/NDF:174202.2/22

Right Out: -2.380+/-0.046 $\chi^2$/NDF: 80668.5/18

Left In: 1.627+/-0.043 $\chi^2$/NDF:130616.8/20

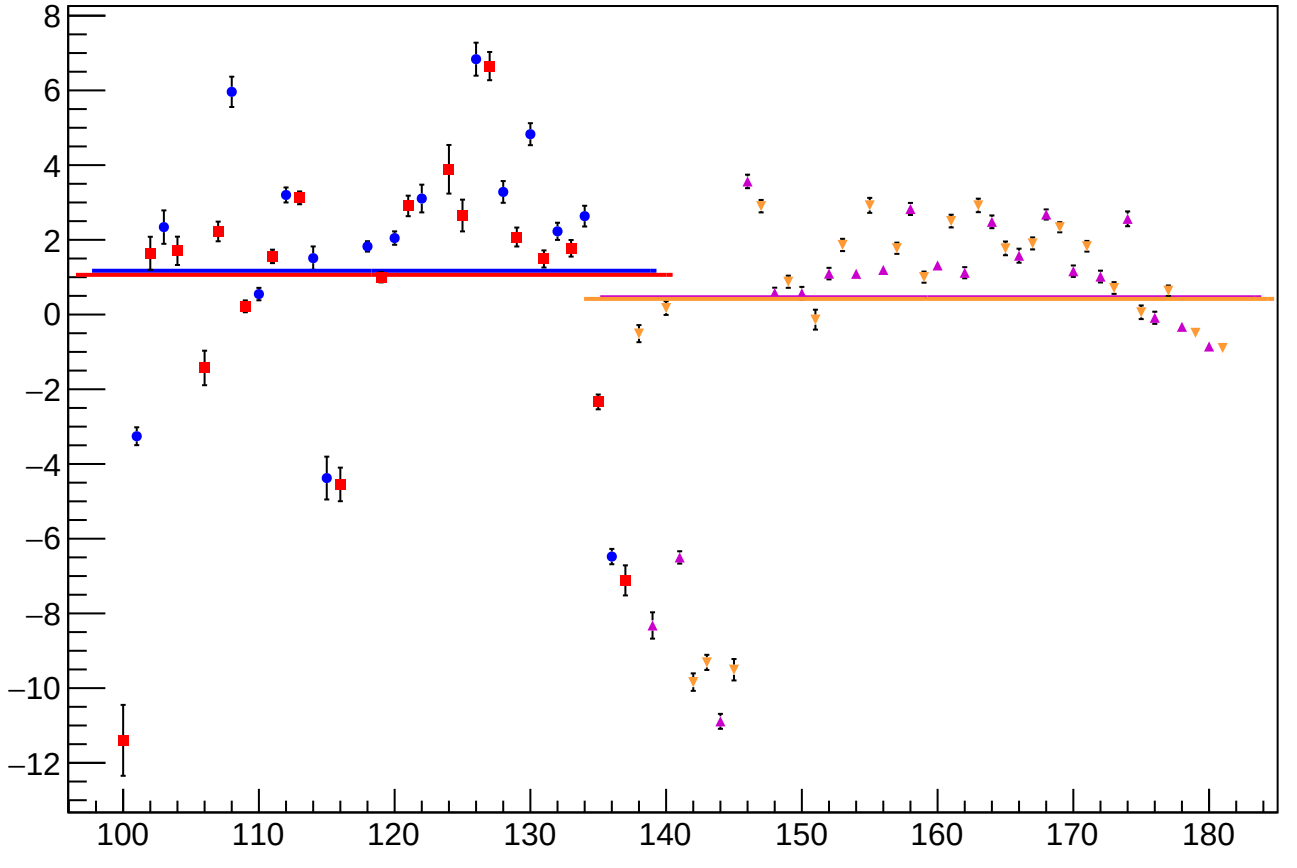
Left: 2.373+/-0.031 $\chi^2$/NDF: 305422.5/43

Right: -3.111+/-0.035 $\chi^2$/NDF: 156520.4/34

In: -0.597+/-0.034 $\chi^2$/NDF:212770.3/36

Out: 0.531+/-0.031 $\chi^2$/NDF:262499.8/41

All: 0.006+/-0.023 $\chi^2$/NDF: 475868.1/78




Right In: 1.172+/-0.060 $\chi^2$/NDF: 2584.5/15

Left Out: 0.419+/-0.034 $\chi^2$/NDF:6979.2/22

Right Out: 1.063+/-0.057 $\chi^2$/NDF: 1596.5/18

Left In: 0.463+/-0.033 $\chi^2$/NDF:7015.5/20

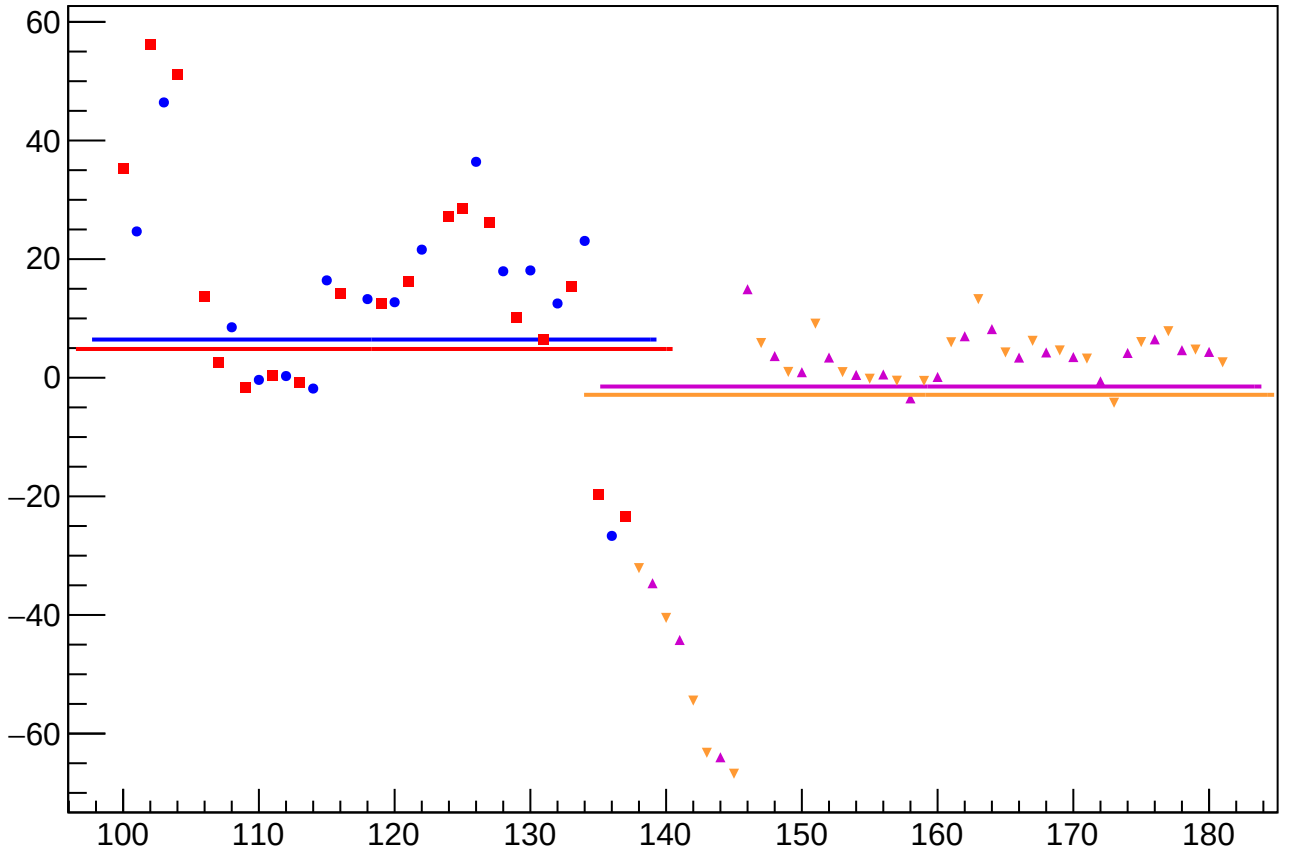
Left: 0.442+/-0.024 $\chi^2$/NDF: 13995.6/43

Right: 1.115+/-0.041 $\chi^2$/NDF: 4182.7/34

In: 0.626+/-0.029 $\chi^2$/NDF:9707.3/36

Out: 0.592+/-0.029 $\chi^2$/NDF:8669.3/41

All: 0.609+/-0.021 $\chi^2$/NDF: 18377.3/78




Right In: 6.442+/-0.065 $\chi^2$/NDF: 70630.3/15

Left Out: -2.878+/-0.043 $\chi^2$/NDF:168613.1/22

Right Out: 4.848+/-0.059 $\chi^2$/NDF: 75159.9/18

Left In: -1.481+/-0.042 $\chi^2$/NDF:127422.3/20

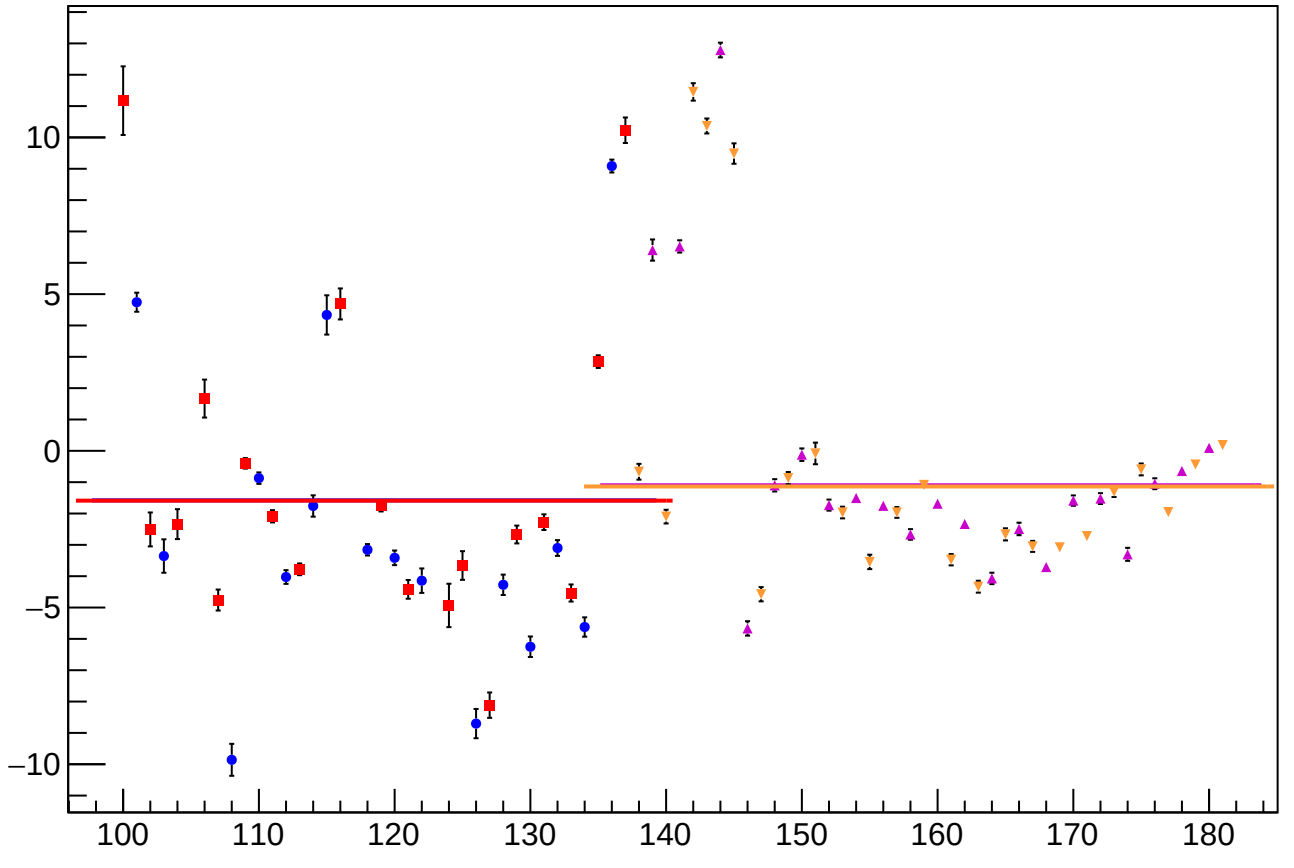
Left: -2.164+/-0.030 $\chi^2$/NDF: 296573.8/43

Right: 5.568+/-0.044 $\chi^2$/NDF: 146121.3/34

In: 0.869+/-0.035 $\chi^2$/NDF:208549.3/36

Out: -0.183+/-0.035 $\chi^2$/NDF:255007.7/41

All: 0.335+/-0.025 $\chi^2$/NDF: 464008.0/78




Right In: -1.580+/-0.069 $\chi^2$/NDF: 4524.3/15

Left Out: -1.137+/-0.038 $\chi^2$/NDF:6922.6/22

Right Out: -1.589+/-0.064 $\chi^2$/NDF: 2472.2/18

Left In: -1.099+/-0.037 $\chi^2$/NDF:6950.8/20

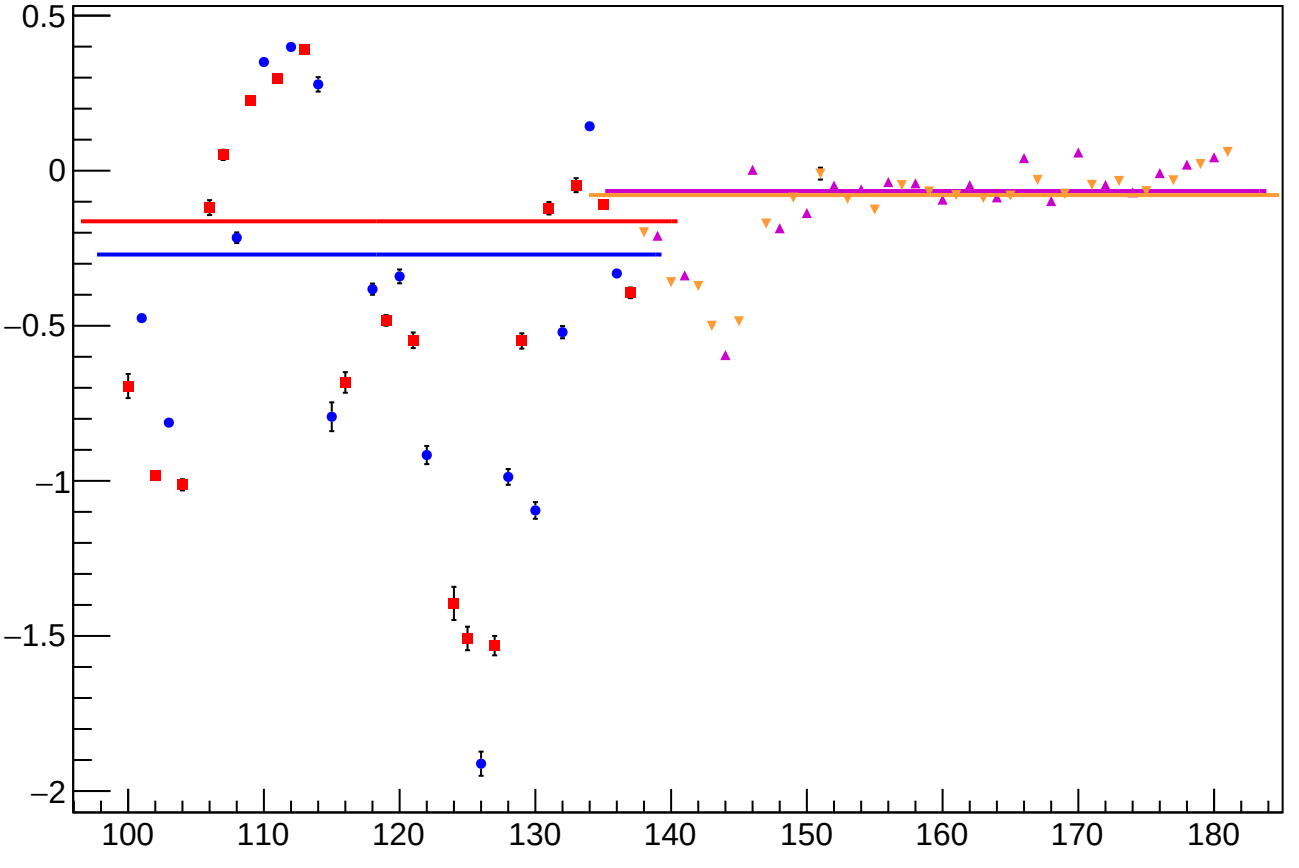
Left: -1.117+/-0.026 $\chi^2$/NDF: 13873.9/43

Right: -1.585+/-0.047 $\chi^2$/NDF: 6996.4/34

In: -1.203+/-0.032 $\chi^2$/NDF:11512.8/36

Out: -1.256+/-0.033 $\chi^2$/NDF:9431.4/41

All: -1.229+/-0.023 $\chi^2$/NDF: 20945.5/78




Right In: -0.270+/-0.004 $\chi^2$/NDF: 12036.3/15

Left Out: -0.079+/-0.002 $\chi^2$/NDF:4801.5/22

Right Out: -0.163+/-0.004 $\chi^2$/NDF: 15510.0/18

Left In: -0.066+/-0.002 $\chi^2$/NDF:4309.3/20

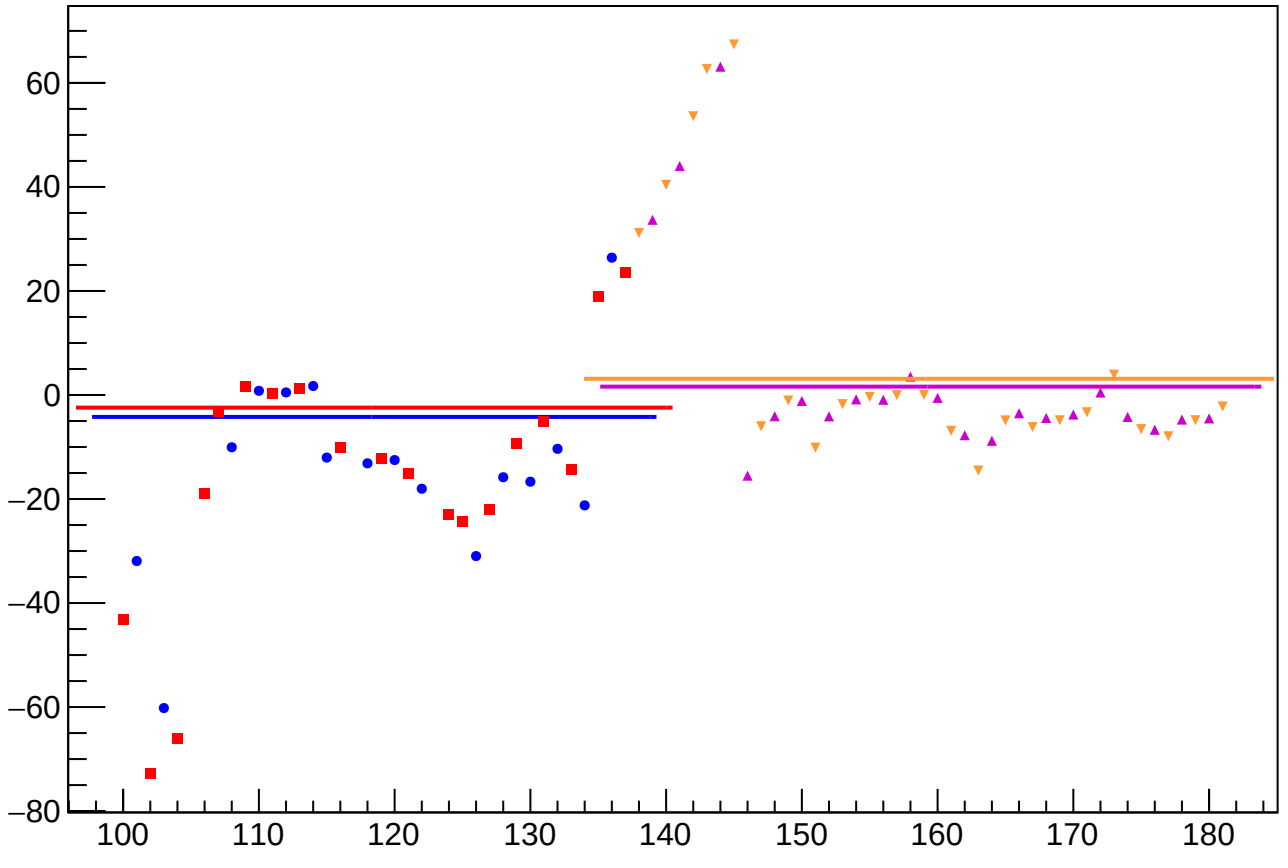
Left: -0.072+/-0.001 $\chi^2$/NDF: 9143.0/43

Right: -0.212+/-0.003 $\chi^2$/NDF: 27912.3/34

In: -0.091+/-0.001 $\chi^2$/NDF:18492.1/36

Out: -0.093+/-0.002 $\chi^2$/NDF:20729.9/41

All: -0.092+/-0.001 $\chi^2$/NDF: 39222.4/78




Right In: -4.214+/-0.055 $\chi^2$/NDF: 75215.4/15

Left Out: 3.110+/-0.043 $\chi^2$/NDF:174638.7/22

Right Out: -2.427+/-0.046 $\chi^2$/NDF: 80724.5/18

Left In: 1.606+/-0.043 $\chi^2$/NDF:130791.9/20

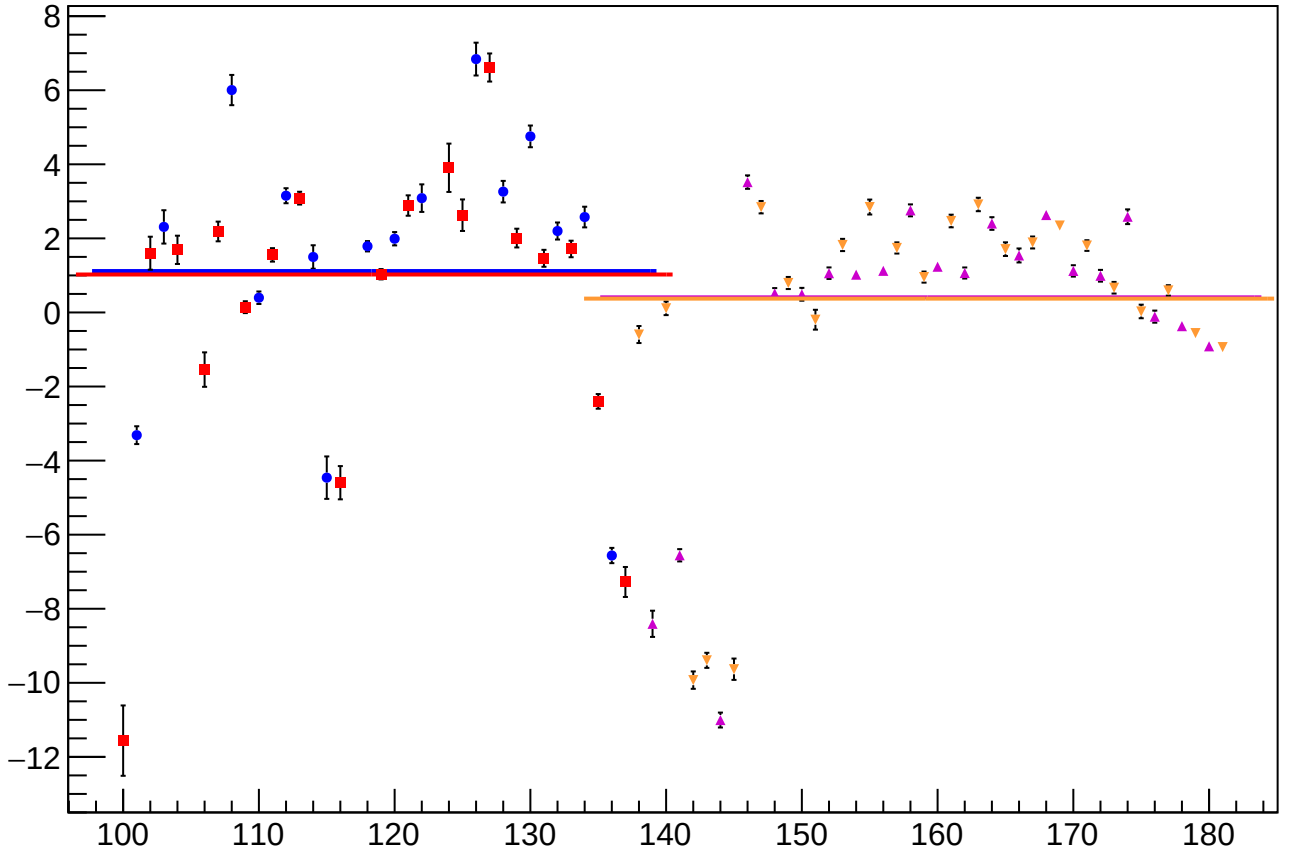
Left: 2.354+/-0.031 $\chi^2$/NDF: 306032.6/43

Right: -3.171+/-0.035 $\chi^2$/NDF: 156563.0/34

In: -0.631+/-0.034 $\chi^2$/NDF:212974.5/36

Out: 0.508+/-0.032 $\chi^2$/NDF:262986.9/41

All: -0.022+/-0.023 $\chi^2$/NDF: 476565.0/78




Right In: 1.118+/-0.060 $\chi^2$/NDF: 2591.7/15

Left Out: 0.373+/-0.035 $\chi^2$/NDF:7000.4/22

Right Out: 1.025+/-0.057 $\chi^2$/NDF: 1612.0/18

Left In: 0.408+/-0.033 $\chi^2$/NDF:6998.8/20

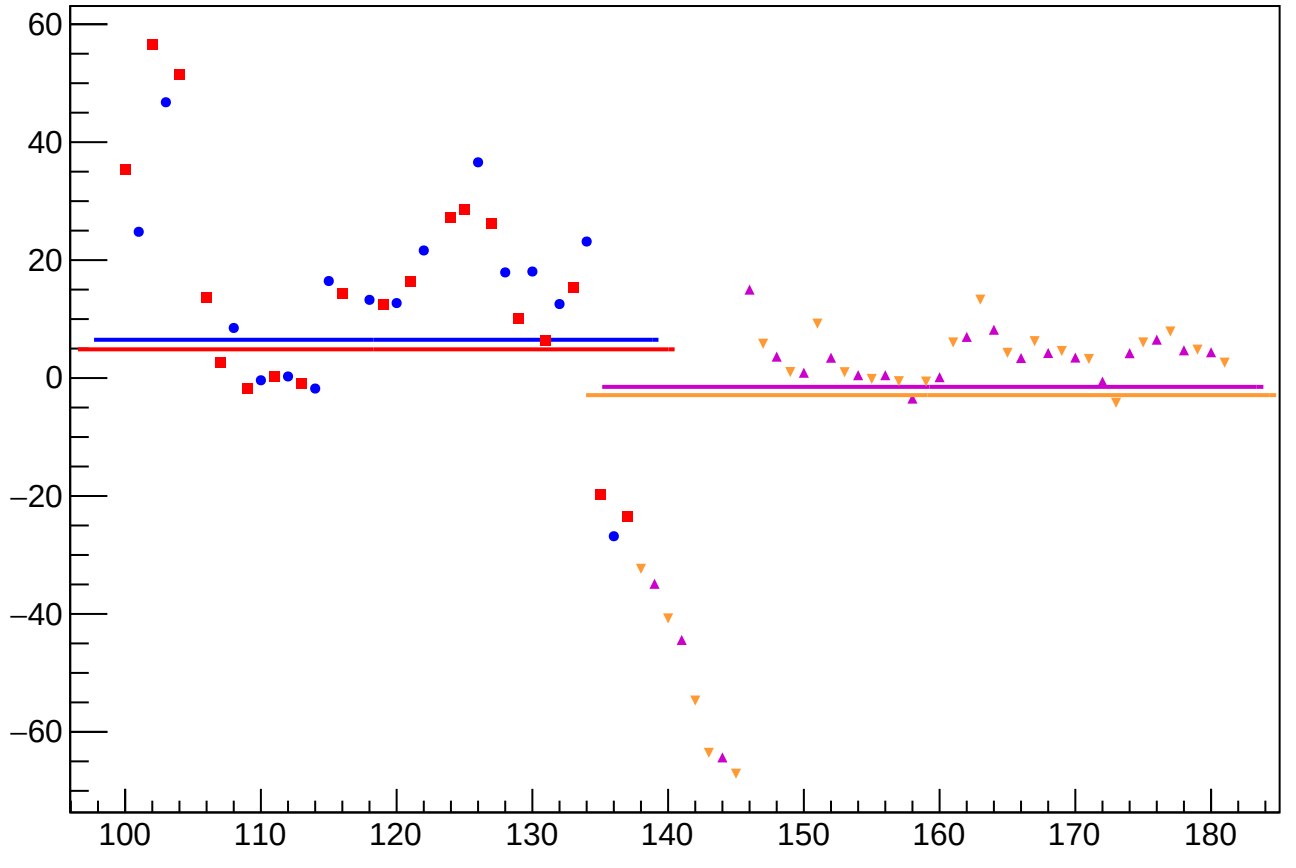
Left: 0.392+/-0.024 $\chi^2$/NDF: 13999.7/43

Right: 1.069+/-0.042 $\chi^2$/NDF: 4205.0/34

In: 0.571+/-0.029 $\chi^2$/NDF:9697.0/36

Out: 0.548+/-0.030 $\chi^2$/NDF:8707.1/41

All: 0.560+/-0.021 $\chi^2$/NDF: 18404.4/78




Right In: 6.492+/-0.065 $\chi^2$/NDF: 70623.9/15

Left Out: -2.897+/-0.043 $\chi^2$/NDF:169040.3/22

Right Out: 4.869+/-0.059 $\chi^2$/NDF: 75265.6/18

Left In: -1.495+/-0.042 $\chi^2$/NDF:127606.3/20

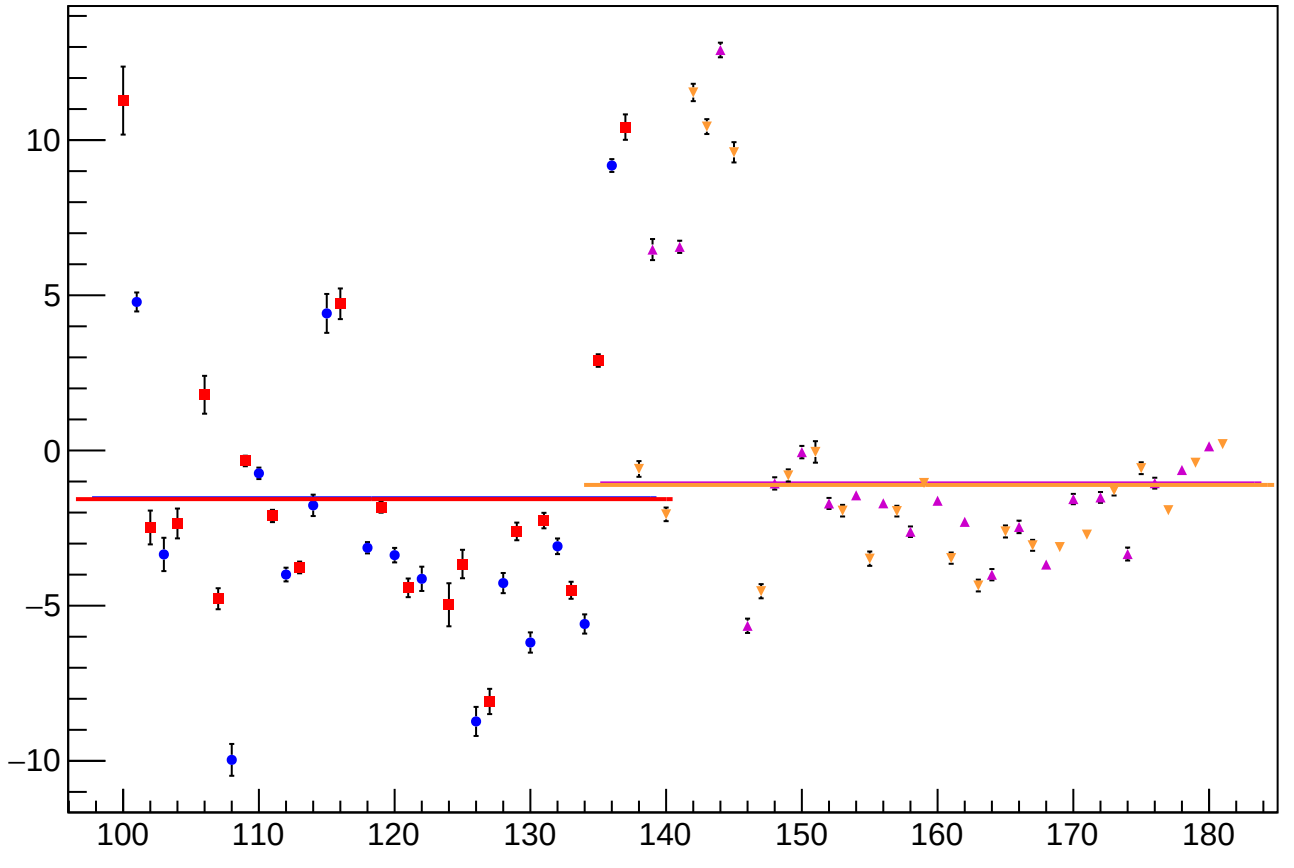
Left: -2.180+/-0.030 $\chi^2$/NDF: 297183.6/43

Right: 5.602+/-0.044 $\chi^2$/NDF: 146229.3/34

In: 0.867+/-0.035 $\chi^2$/NDF:208791.0/36

Out: -0.195+/-0.035 $\chi^2$/NDF:255526.9/41

All: 0.328+/-0.025 $\chi^2$/NDF: 464773.3/78




Right In: -1.540+/-0.070 $\chi^2$/NDF: 4535.9/15

Left Out: -1.110+/-0.038 $\chi^2$/NDF:6945.3/22

Right Out: -1.567+/-0.065 $\chi^2$/NDF: 2497.0/18

Left In: -1.060+/-0.037 $\chi^2$/NDF:6939.5/20

Left: -1.084+/-0.027 $\chi^2$/NDF: 13885.7/43

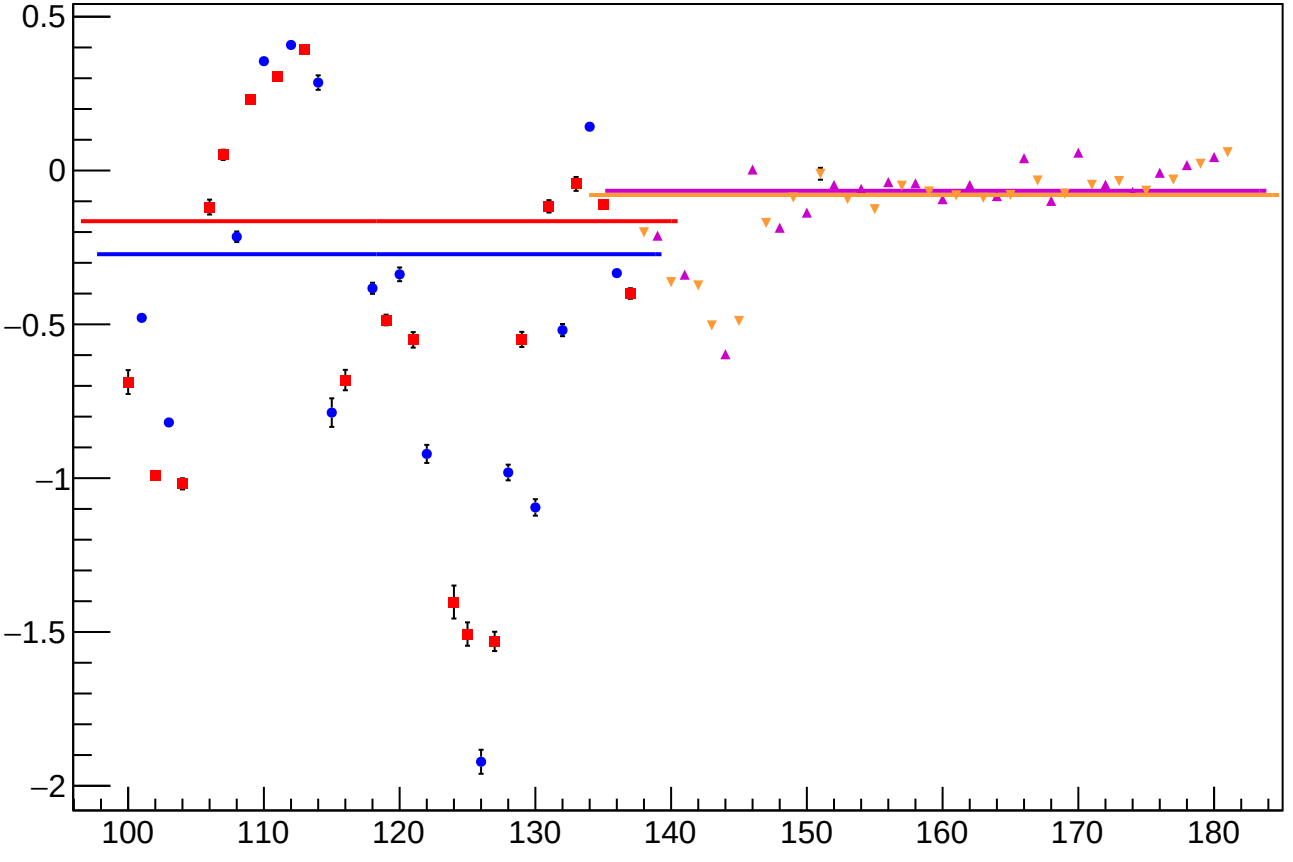
Right: -1.555+/-0.047 $\chi^2$/NDF: 7032.9/34

In: -1.165+/-0.032 $\chi^2$/NDF:11512.6/36

Out: -1.230+/-0.033 $\chi^2$/NDF:9479.3/41

All: -1.196+/-0.023 $\chi^2$/NDF: 20993.9/78

reg_asym_bcm_an_us_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.272+/-0.004 $\chi^2$/NDF: 12063.6/15

Left Out: -0.080+/-0.002 $\chi^2$/NDF:4811.1/22

Right Out: -0.165+/-0.004 $\chi^2$/NDF: 15490.5/18

Left In: -0.066+/-0.002 $\chi^2$/NDF:4301.0/20

Left: -0.072+/-0.001 $\chi^2$/NDF: 9147.7/43

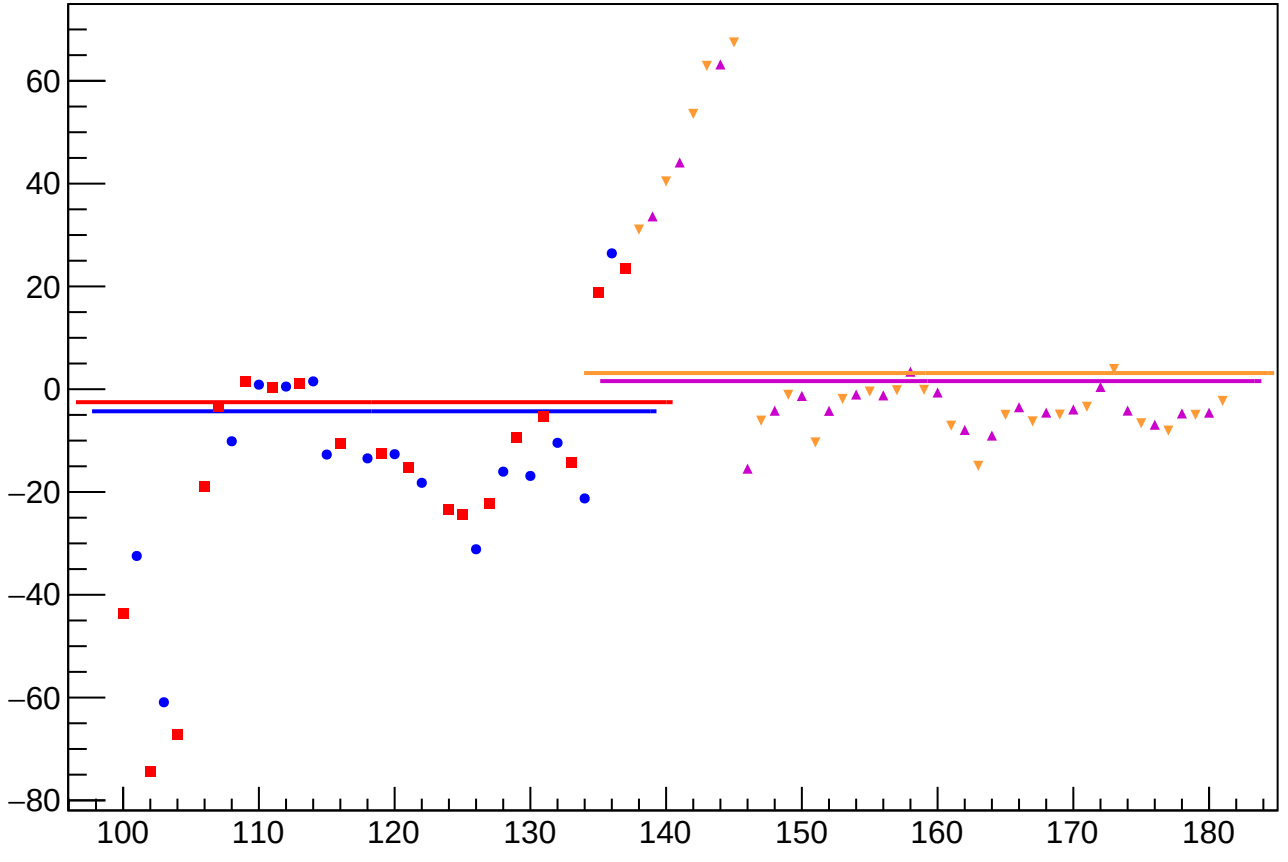
Right: -0.214+/-0.003 $\chi^2$/NDF: 27917.4/34

In: -0.092+/-0.001 $\chi^2$/NDF:18518.7/36

Out: -0.094+/-0.002 $\chi^2$/NDF:20720.4/41

All: -0.093+/-0.001 $\chi^2$/NDF: 39240.0/78

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -4.296+/-0.056 $\chi^2$/NDF: 74218.3/15

Left Out: 3.144+/-0.044 $\chi^2$/NDF:172167.0/22

Right Out: -2.524+/-0.047 $\chi^2$/NDF: 79883.8/18

Left In: 1.577+/-0.044 $\chi^2$/NDF:128705.1/20

Left: 2.357+/-0.031 $\chi^2$/NDF: 301501.1/43

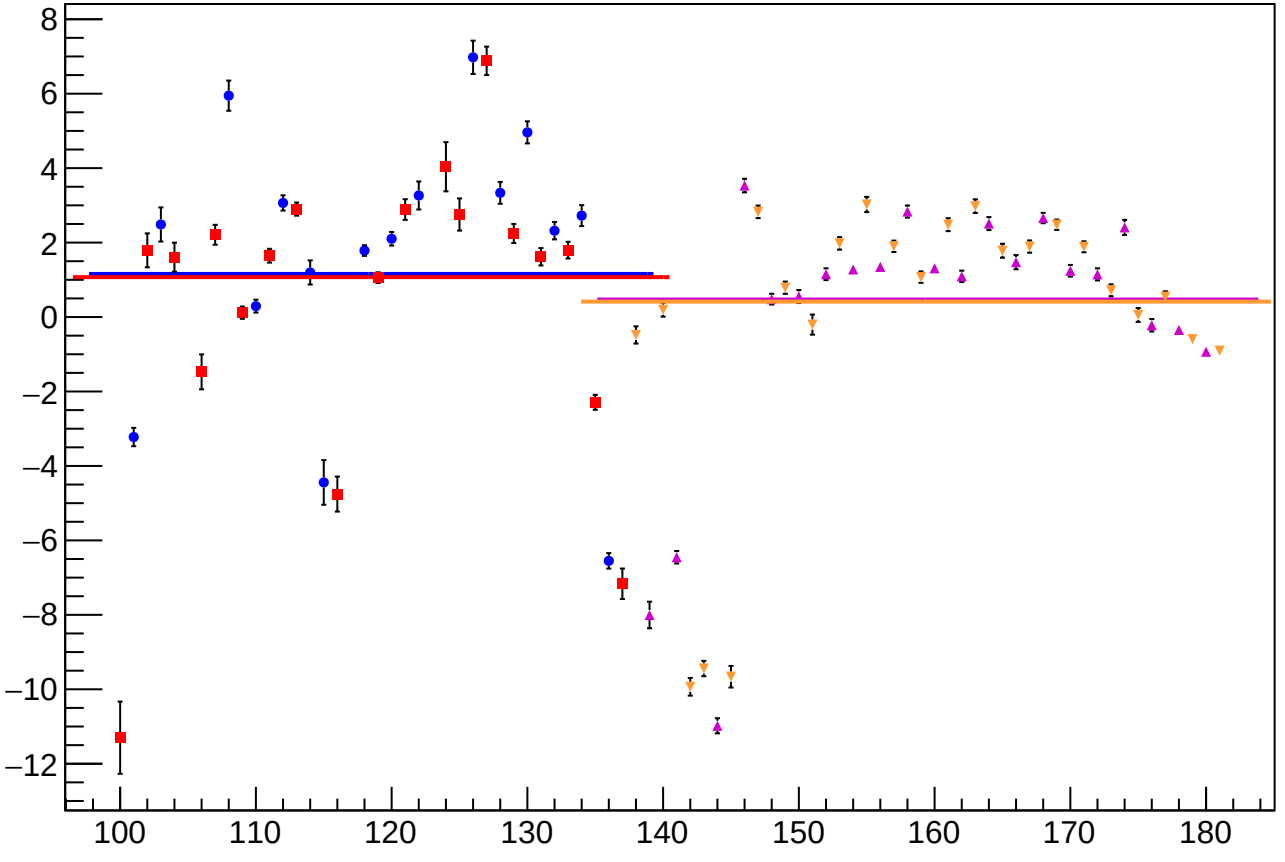
Right: -3.265+/-0.036 $\chi^2$/NDF: 154689.9/34

In: -0.682+/-0.035 $\chi^2$/NDF:209755.9/36

Out: 0.493+/-0.032 $\chi^2$/NDF:259717.1/41

All: -0.055+/-0.024 $\chi^2$/NDF: 470089.0/78

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.158+/-0.062 $\chi^2$/NDF: 2549.9/15

Left Out: 0.415+/-0.035 $\chi^2$/NDF:6984.4/22

Right Out: 1.072+/-0.058 $\chi^2$/NDF: 1551.4/18

Left In: 0.470+/-0.034 $\chi^2$/NDF:6837.0/20

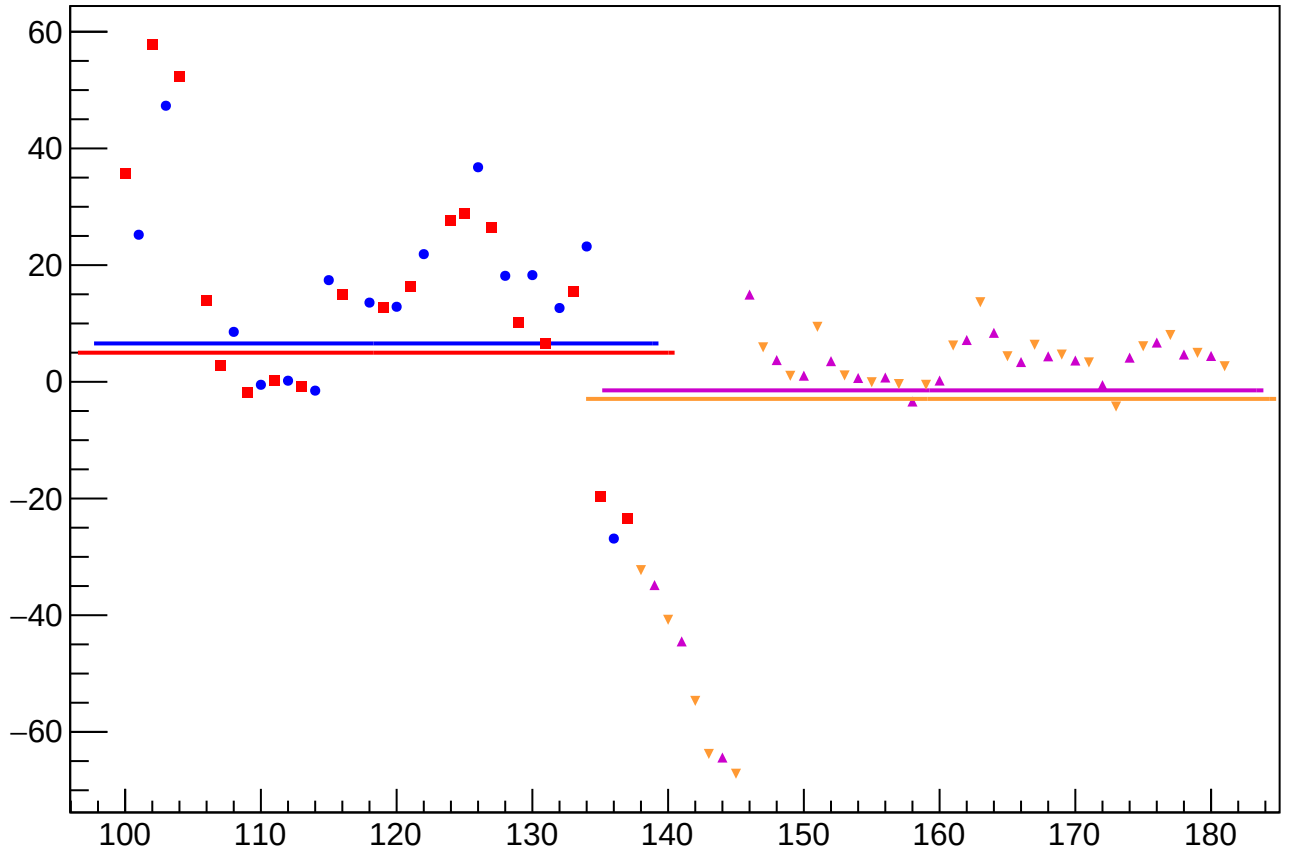
Left: 0.443+/-0.024 $\chi^2$/NDF: 13822.8/43

Right: 1.113+/-0.042 $\chi^2$/NDF: 4102.4/34

In: 0.627+/-0.029 $\chi^2$/NDF:9483.4/36

Out: 0.590+/-0.030 $\chi^2$/NDF:8628.9/41

All: 0.609+/-0.021 $\chi^2$/NDF: 18113.1/78




Right In: 6.578+/-0.066 $\chi^2$/NDF: 69731.5/15

Left Out: -2.926+/-0.044 $\chi^2$/NDF:166635.6/22

Right Out: 4.992+/-0.060 $\chi^2$/NDF: 74461.3/18

Left In: -1.463+/-0.043 $\chi^2$/NDF:125546.0/20

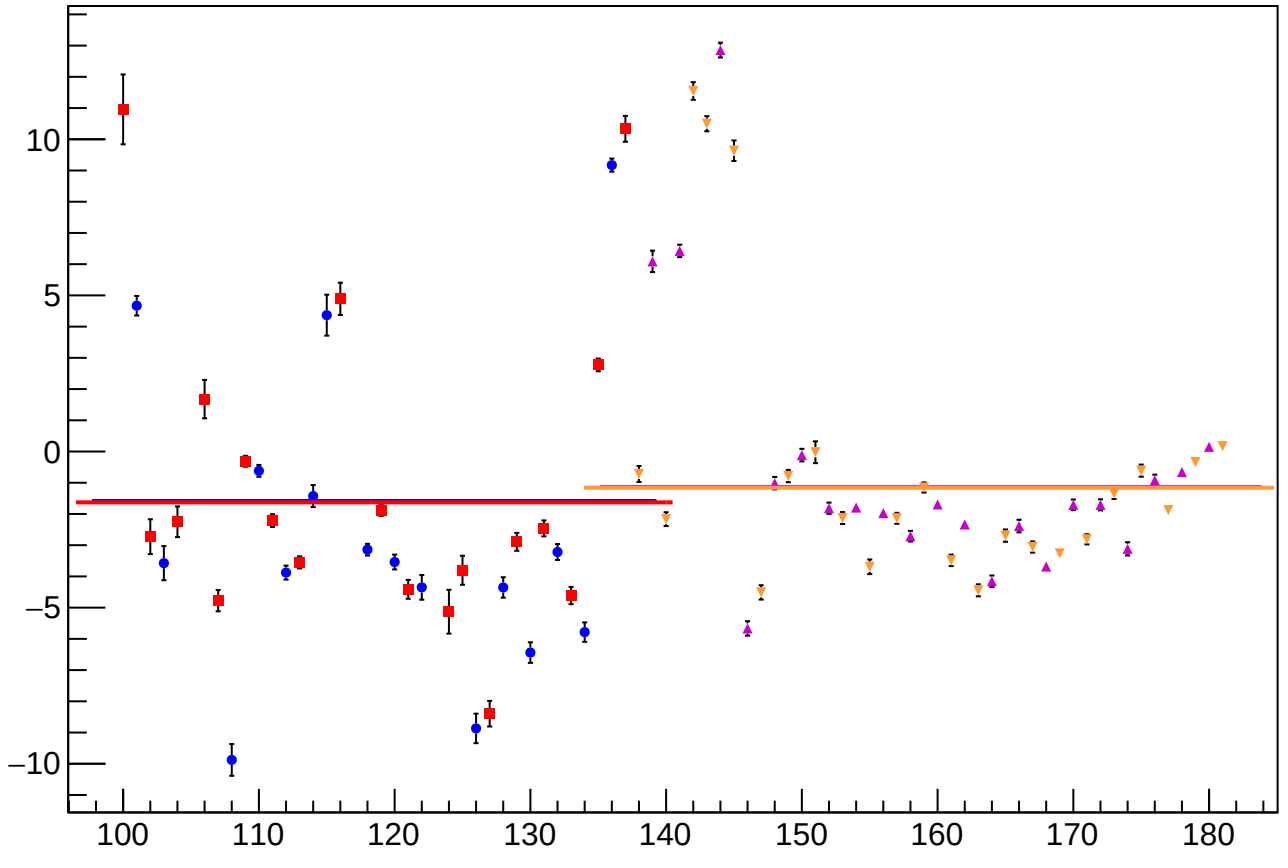
Left: -2.179+/-0.031 $\chi^2$/NDF: 292745.3/43

Right: 5.710+/-0.045 $\chi^2$/NDF: 144504.9/34

In: 0.921+/-0.036 $\chi^2$/NDF:205596.1/36

Out: -0.179+/-0.036 $\chi^2$/NDF:252312.6/41

All: 0.362+/-0.025 $\chi^2$/NDF: 458379.0/78




Right In: -1.586+/-0.071 $\chi^2$/NDF: 4472.6/15

Left Out: -1.158+/-0.039 $\chi^2$/NDF:6922.6/22

Right Out: -1.628+/-0.066 $\chi^2$/NDF: 2422.3/18

Left In: -1.139+/-0.037 $\chi^2$/NDF:6755.7/20

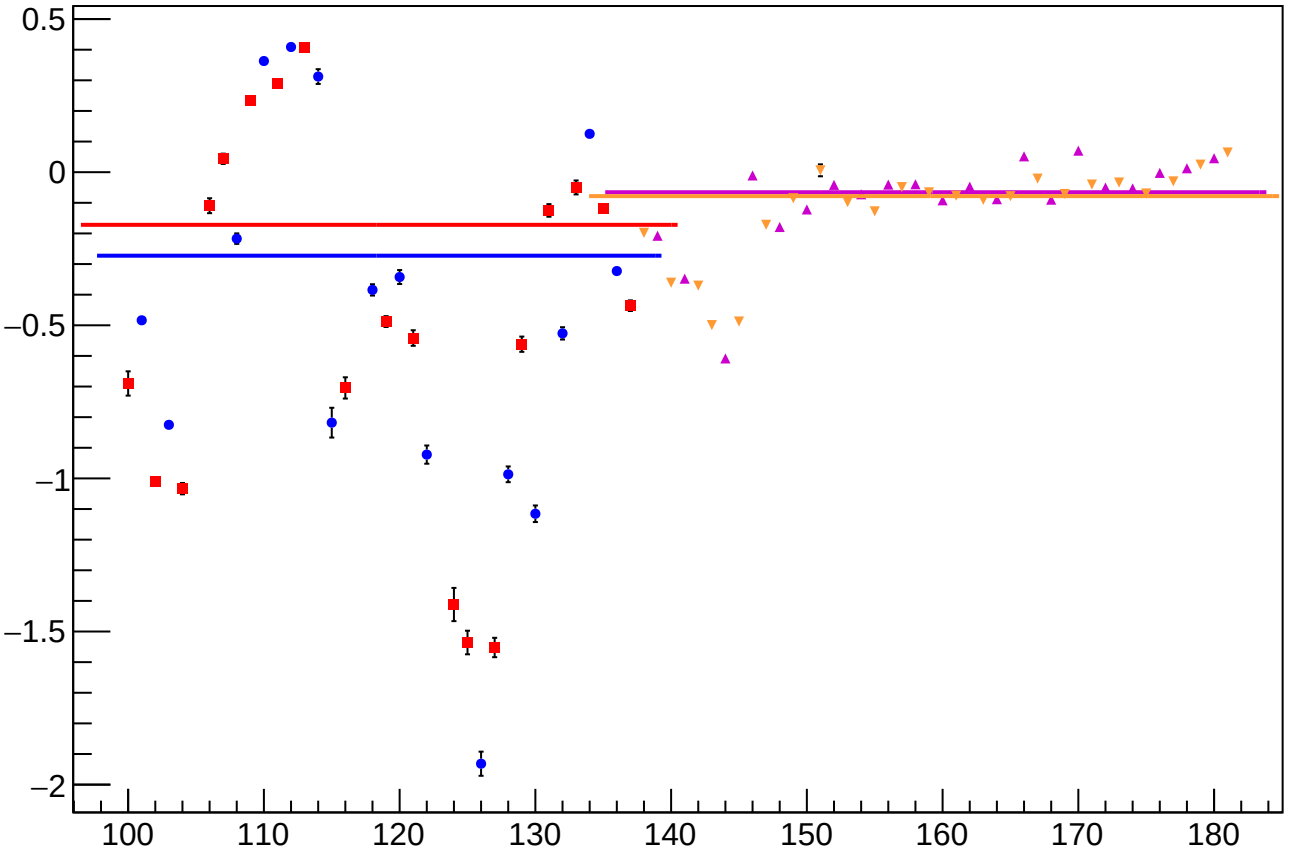
Left: -1.148+/-0.027 $\chi^2$/NDF: 13678.5/43

Right: -1.609+/-0.048 $\chi^2$/NDF: 6895.1/34

In: -1.236+/-0.033 $\chi^2$/NDF:11259.5/36

Out: -1.281+/-0.034 $\chi^2$/NDF:9382.5/41

All: -1.258+/-0.024 $\chi^2$/NDF: 20642.9/78




Right In: -0.273+/-0.004 $\chi^2$/NDF: 11856.3/15

Left Out: -0.078+/-0.002 $\chi^2$/NDF:4738.5/22

Right Out: -0.172+/-0.004 $\chi^2$/NDF: 15322.3/18

Left In: -0.065+/-0.002 $\chi^2$/NDF:4344.4/20

Left: -0.071+/-0.001 $\chi^2$/NDF: 9112.4/43

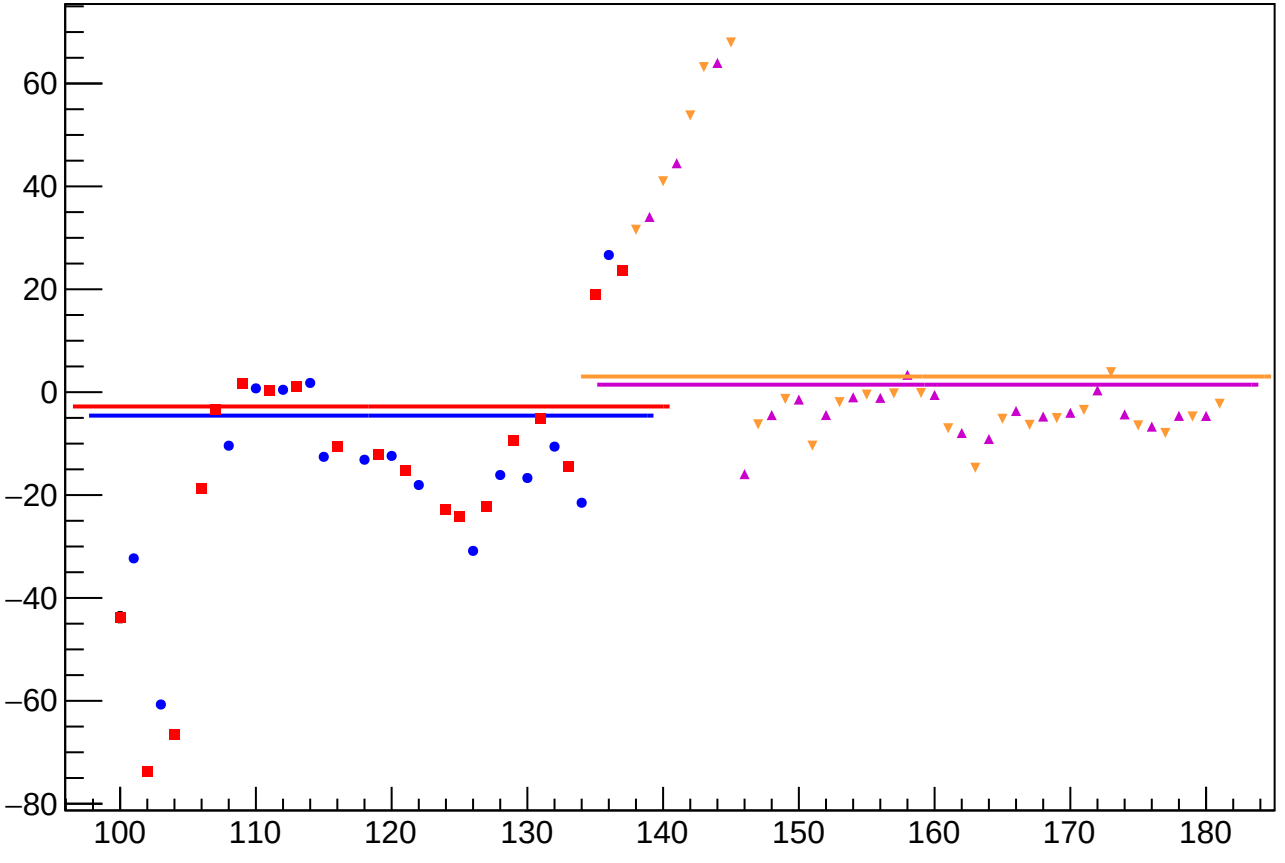
Right: -0.218+/-0.003 $\chi^2$/NDF: 27488.4/34

In: -0.092+/-0.001 $\chi^2$/NDF:18306.9/36

Out: -0.094+/-0.002 $\chi^2$/NDF:20551.6/41

All: -0.093+/-0.001 $\chi^2$/NDF: 38859.5/78

reg_asym_bcm_dg_us_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -4.557+/-0.057 $\chi^2$/NDF: 72635.2/15

Left Out: 3.042+/-0.045 $\chi^2$/NDF:169328.5/22

Right Out: -2.780+/-0.049 $\chi^2$/NDF: 77905.3/18

Left In: 1.456+/-0.044 $\chi^2$/NDF:127241.2/20

Left: 2.245+/-0.031 $\chi^2$/NDF: 297203.9/43

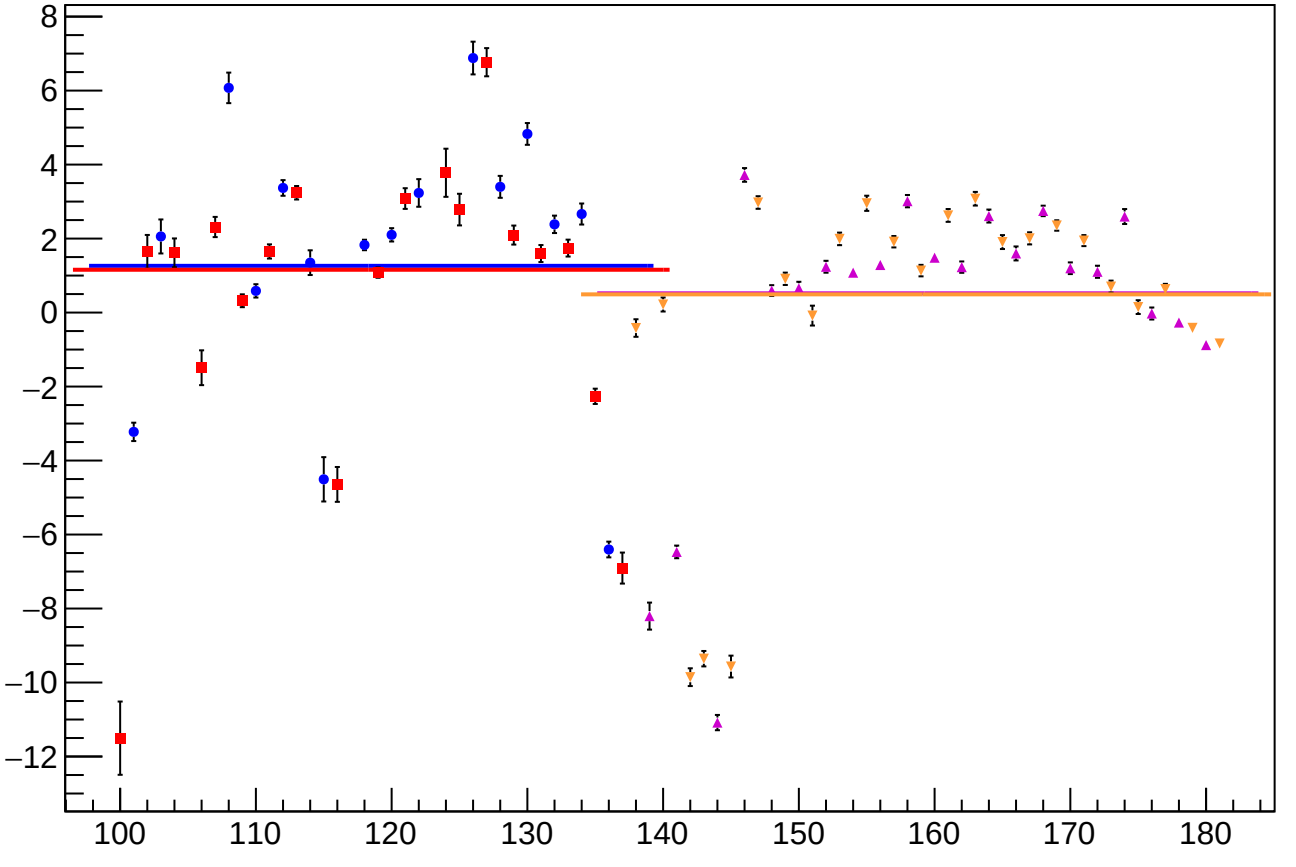
Right: -3.530+/-0.037 $\chi^2$/NDF: 151106.4/34

In: -0.826+/-0.035 $\chi^2$/NDF:206832.0/36

Out: 0.372+/-0.033 $\chi^2$/NDF:255033.9/41

All: -0.189+/-0.024 $\chi^2$/NDF: 462488.7/78

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.263+/-0.062 $\chi^2$/NDF: 2443.8/15

Left Out: 0.492+/-0.035 $\chi^2$/NDF:6753.7/22

Right Out: 1.157+/-0.059 $\chi^2$/NDF: 1490.5/18

Left In: 0.520+/-0.034 $\chi^2$/NDF:6791.3/20

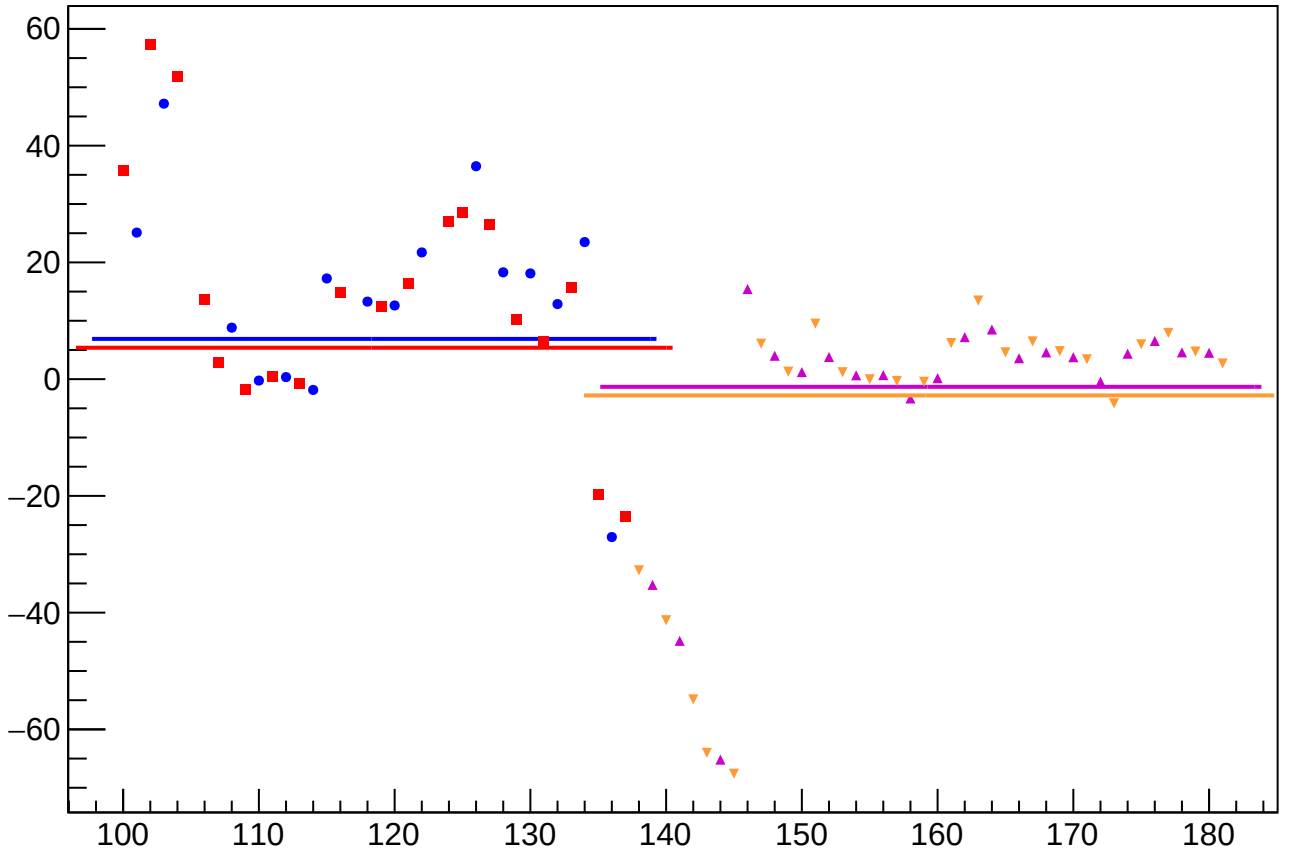
Left: 0.507+/-0.025 $\chi^2$/NDF: 13545.3/43

Right: 1.208+/-0.043 $\chi^2$/NDF: 3935.9/34

In: 0.691+/-0.030 $\chi^2$/NDF:9345.5/36

Out: 0.669+/-0.030 $\chi^2$/NDF:8337.2/41

All: 0.680+/-0.021 $\chi^2$/NDF: 17683.0/78




Right In: 6.895+/-0.067 $\chi^2$/NDF: 68047.4/15

Left Out: -2.789+/-0.044 $\chi^2$/NDF:163773.7/22

Right Out: 5.381+/-0.062 $\chi^2$/NDF: 72230.2/18

Left In: -1.317+/-0.043 $\chi^2$/NDF:124055.7/20

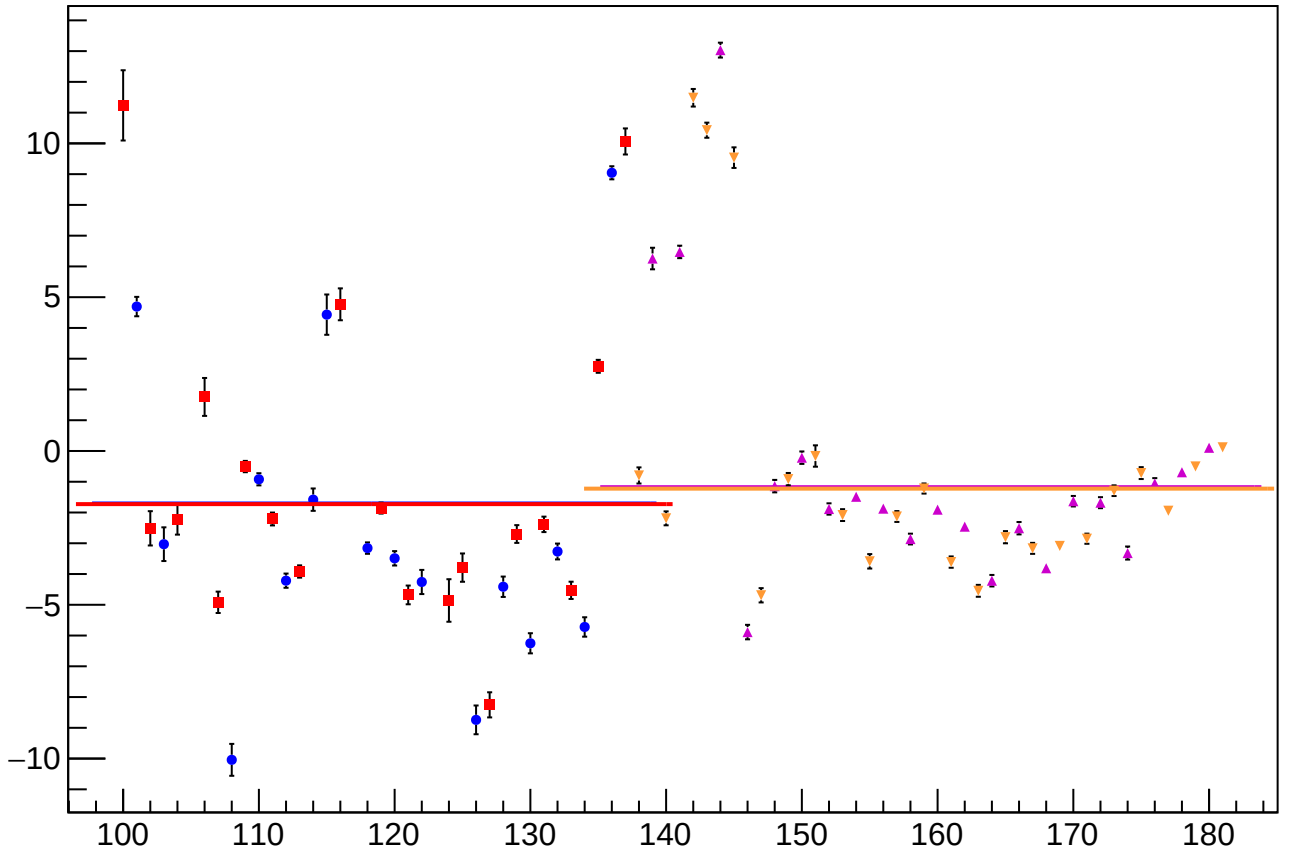
Left: -2.038+/-0.031 $\chi^2$/NDF: 288391.4/43

Right: 6.071+/-0.045 $\chi^2$/NDF: 140552.1/34

In: 1.097+/-0.037 $\chi^2$/NDF:202595.1/36

Out: -0.002+/-0.036 $\chi^2$/NDF:247563.1/41

All: 0.540+/-0.026 $\chi^2$/NDF: 450617.3/78




Right In: -1.708+/-0.072 $\chi^2$/NDF: 4289.8/15

Left Out: -1.224+/-0.039 $\chi^2$/NDF:6709.3/22

Right Out: -1.727+/-0.067 $\chi^2$/NDF: 2309.6/18

Left In: -1.176+/-0.038 $\chi^2$/NDF:6751.0/20

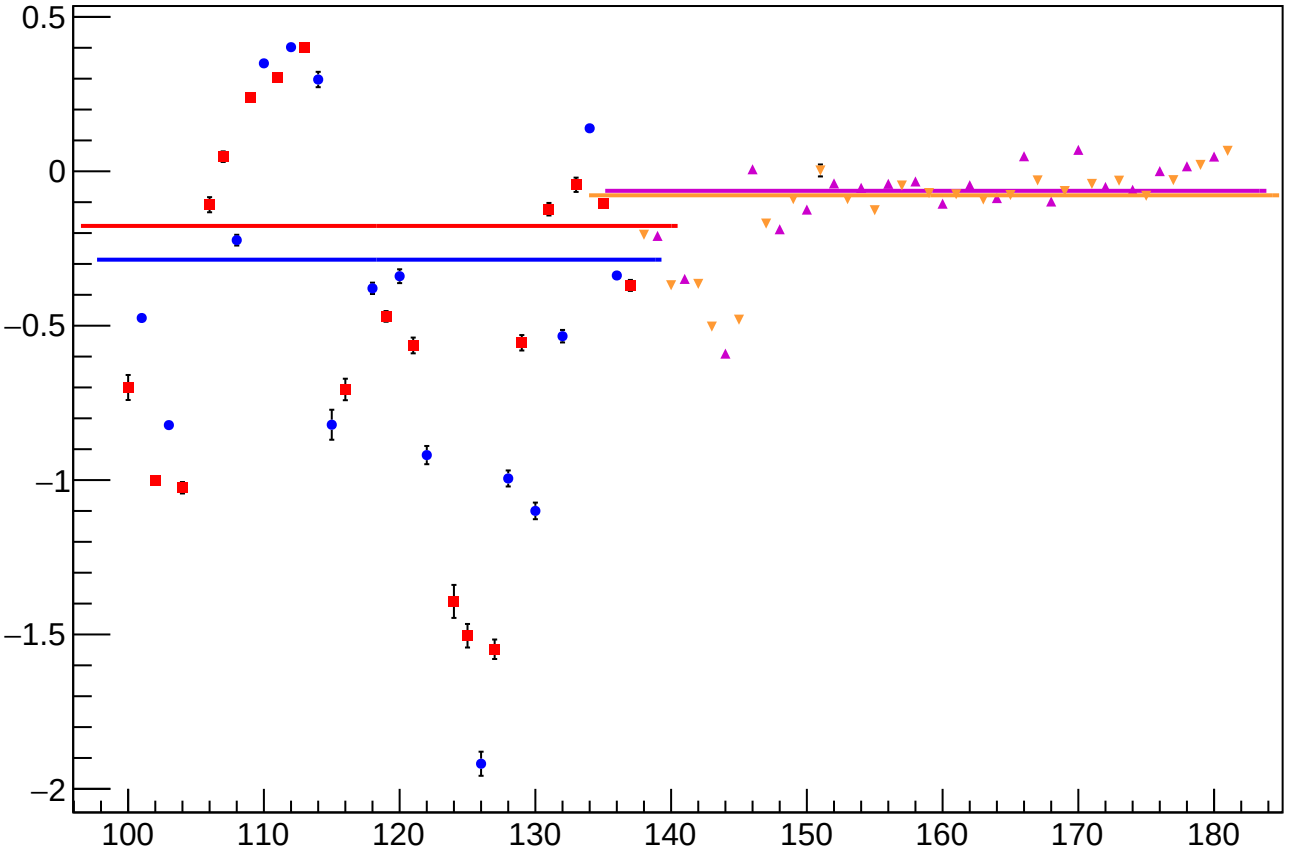
Left: -1.199+/-0.027 $\chi^2$/NDF: 13461.1/43

Right: -1.718+/-0.049 $\chi^2$/NDF: 6599.4/34

In: -1.292+/-0.033 $\chi^2$/NDF:11084.0/36

Out: -1.354+/-0.034 $\chi^2$/NDF:9060.9/41

All: -1.323+/-0.024 $\chi^2$/NDF: 20146.5/78




Right In: -0.286+/-0.004 $\chi^2$/NDF: 11361.1/15

Left Out: -0.078+/-0.002 $\chi^2$/NDF:4633.6/22

Right Out: -0.177+/-0.004 $\chi^2$/NDF: 14767.8/18

Left In: -0.063+/-0.002 $\chi^2$/NDF:4219.0/20

Left: -0.070+/-0.001 $\chi^2$/NDF: 8890.4/43

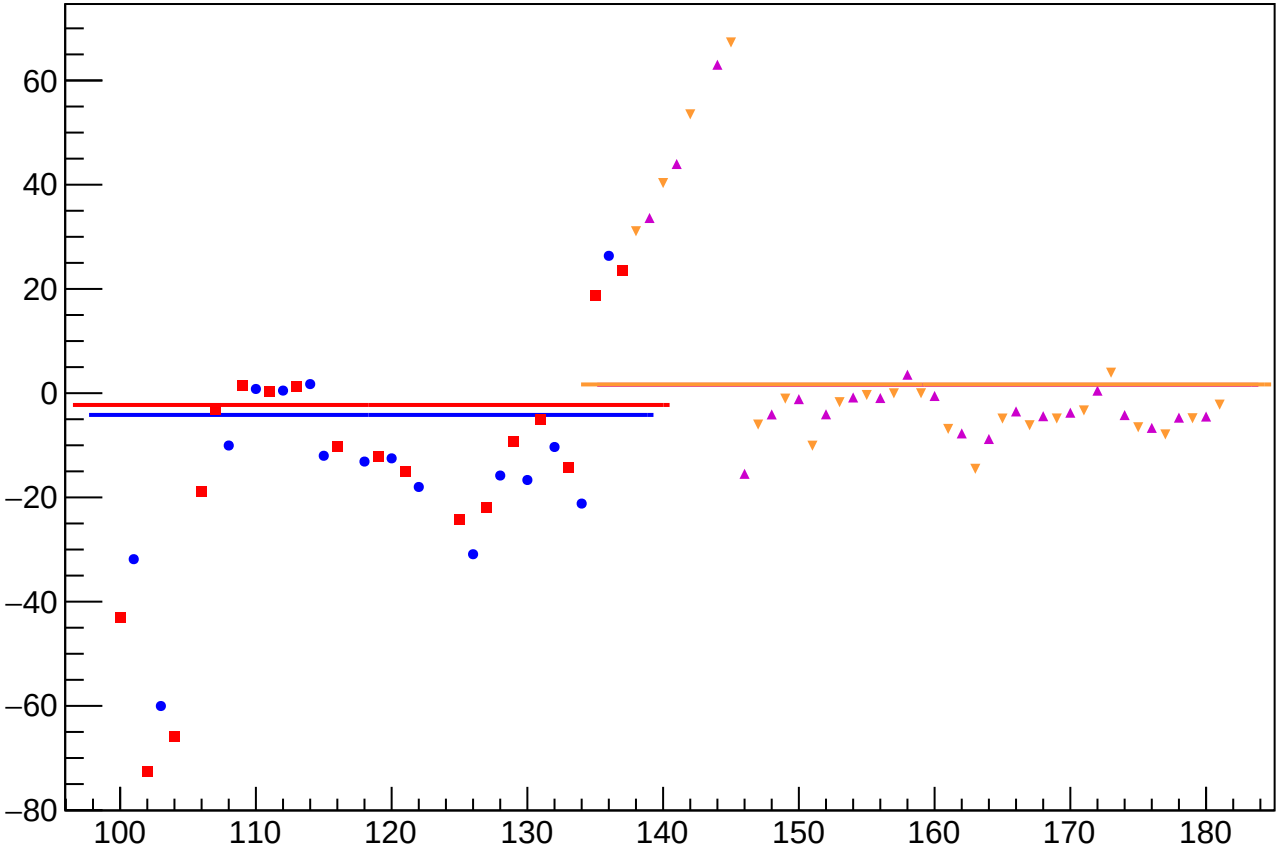
Right: -0.227+/-0.003 $\chi^2$/NDF: 26481.0/34

In: -0.091+/-0.002 $\chi^2$/NDF:17955.5/36

Out: -0.094+/-0.002 $\chi^2$/NDF:19930.1/41

All: -0.092+/-0.001 $\chi^2$/NDF: 37887.0/78

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -4.173+/-0.054 $\chi^2$/NDF: 75394.5/15

Left Out: 1.677+/-0.044 $\chi^2$/NDF:129569.2/21

Right Out: -2.261+/-0.046 $\chi^2$/NDF: 79624.4/17

Left In: 1.604+/-0.043 $\chi^2$/NDF:131022.0/20

Left: 1.640+/-0.031 $\chi^2$/NDF: 260592.5/42

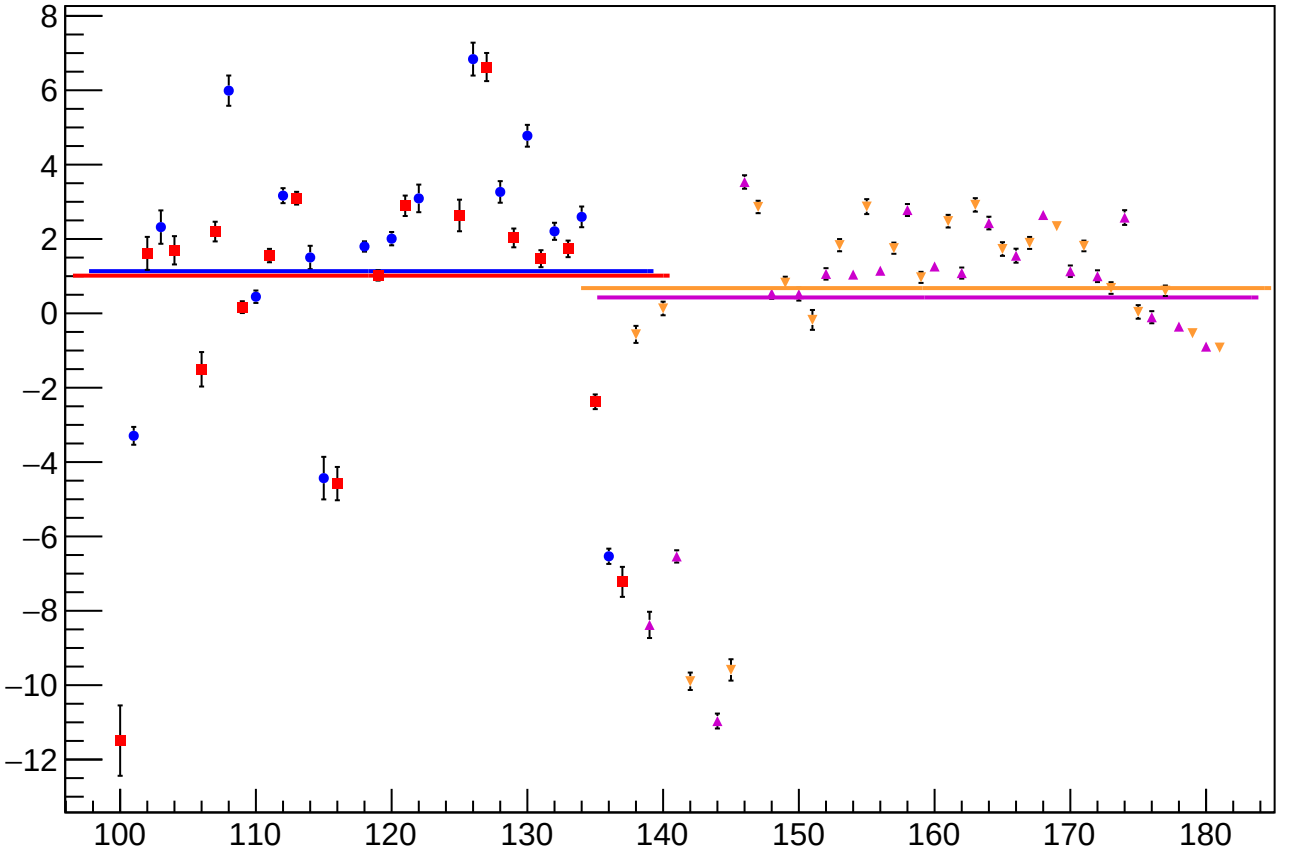
Right: -3.058+/-0.035 $\chi^2$/NDF: 155737.8/33

In: -0.620+/-0.034 $\chi^2$/NDF:213340.9/36

Out: -0.196+/-0.032 $\chi^2$/NDF:213030.4/39

All: -0.395+/-0.023 $\chi^2$/NDF: 426454.7/76

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.135+/-0.060 $\chi^2$/NDF: 2595.7/15

Left Out: 0.679+/-0.035 $\chi^2$/NDF:4633.2/21

Right Out: 1.014+/-0.057 $\chi^2$/NDF: 1593.0/17

Left In: 0.428+/-0.033 $\chi^2$/NDF:7019.9/20

Left: 0.545+/-0.024 $\chi^2$/NDF: 11680.6/42

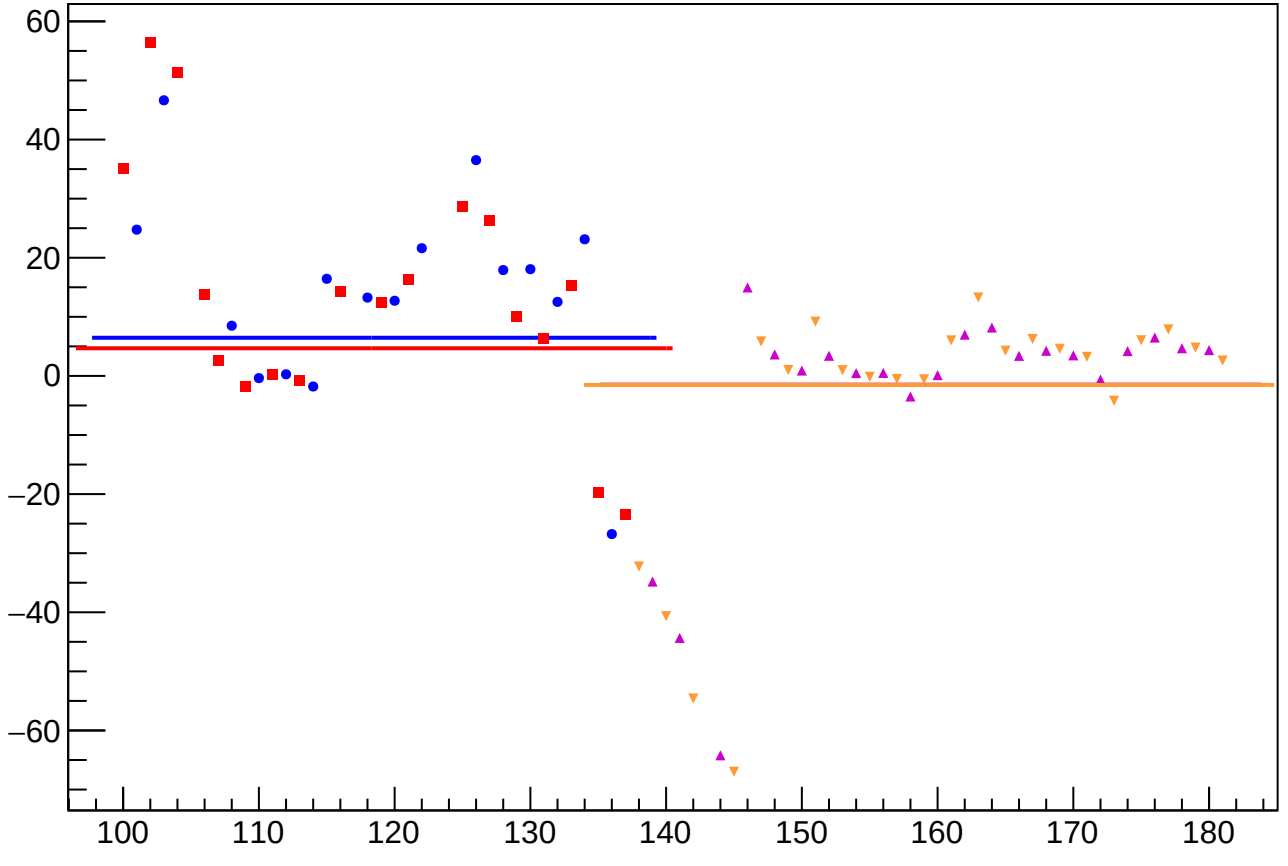
Right: 1.072+/-0.041 $\chi^2$/NDF: 4190.8/33

In: 0.590+/-0.029 $\chi^2$/NDF:9722.2/36

Out: 0.771+/-0.030 $\chi^2$/NDF:6251.1/39

All: 0.677+/-0.021 $\chi^2$/NDF: 15992.4/76

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 6.458+/-0.065 $\chi^2$/NDF: 70792.7/15

Left Out: -1.522+/-0.044 $\chi^2$/NDF:124935.5/21

Right Out: 4.677+/-0.059 $\chi^2$/NDF: 74414.5/17

Left In: -1.482+/-0.042 $\chi^2$/NDF:127824.1/20

Left: -1.501+/-0.030 $\chi^2$/NDF: 252760.0/42

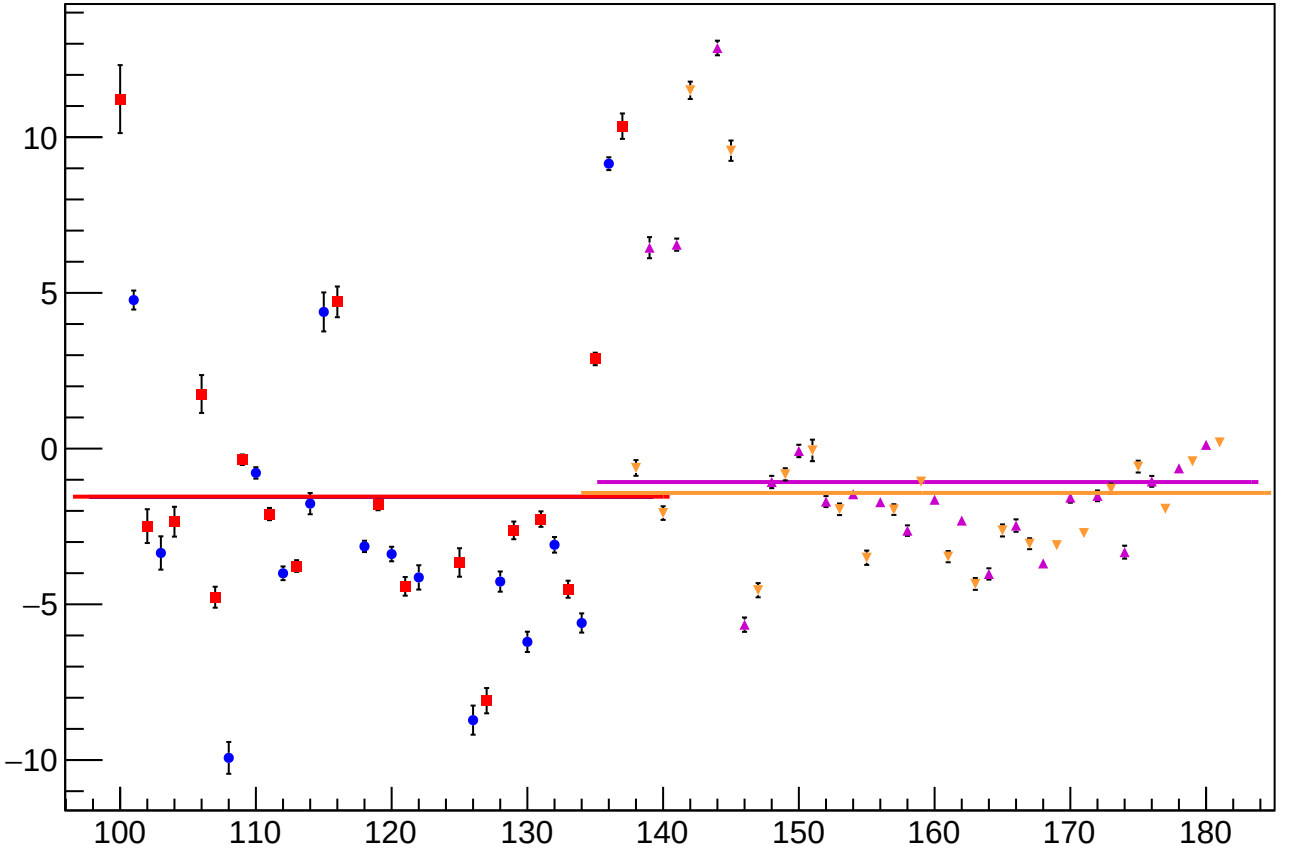
Right: 5.483+/-0.044 $\chi^2$/NDF: 145618.4/33

In: 0.867+/-0.035 $\chi^2$/NDF:209136.0/36

Out: 0.661+/-0.035 $\chi^2$/NDF:206479.8/39

All: 0.763+/-0.025 $\chi^2$/NDF: 415632.9/76

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -1.552+/-0.069 $\chi^2$/NDF: 4543.6/15

Left Out: -1.423+/-0.039 $\chi^2$/NDF:4569.3/21

Right Out: -1.543+/-0.065 $\chi^2$/NDF: 2473.0/17

Left In: -1.074+/-0.037 $\chi^2$/NDF:6958.2/20

Left: -1.238+/-0.027 $\chi^2$/NDF: 11570.2/42

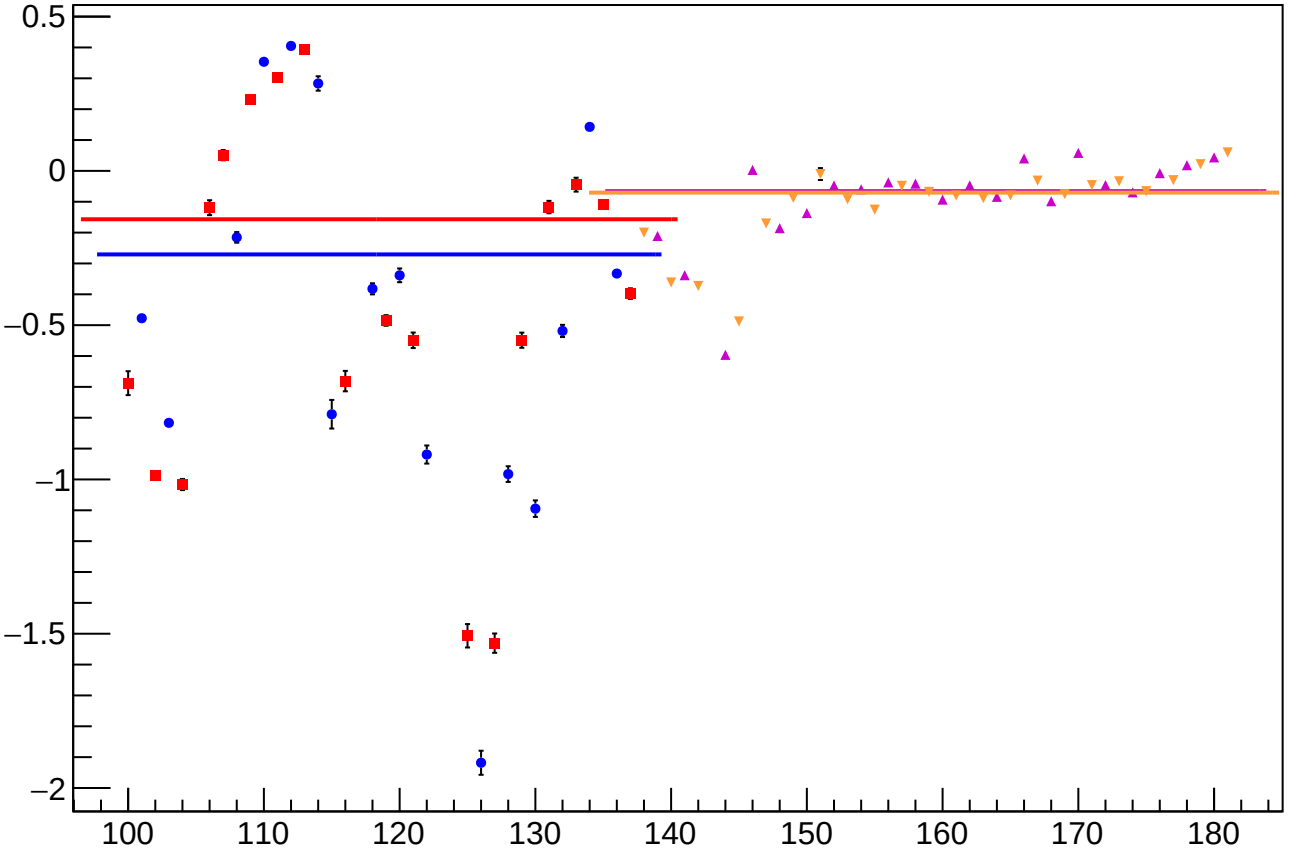
Right: -1.547+/-0.047 $\chi^2$/NDF: 7016.6/33

In: -1.178+/-0.032 $\chi^2$/NDF:11538.9/36

Out: -1.455+/-0.033 $\chi^2$/NDF:7044.8/39

All: -1.312+/-0.023 $\chi^2$/NDF: 18619.4/76

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.271+/-0.004 $\chi^2$/NDF: 12096.1/15

Left Out: -0.070+/-0.002 $\chi^2$/NDF:3516.8/21

Right Out: -0.157+/-0.004 $\chi^2$/NDF: 15019.0/17

Left In: -0.066+/-0.002 $\chi^2$/NDF:4313.3/20

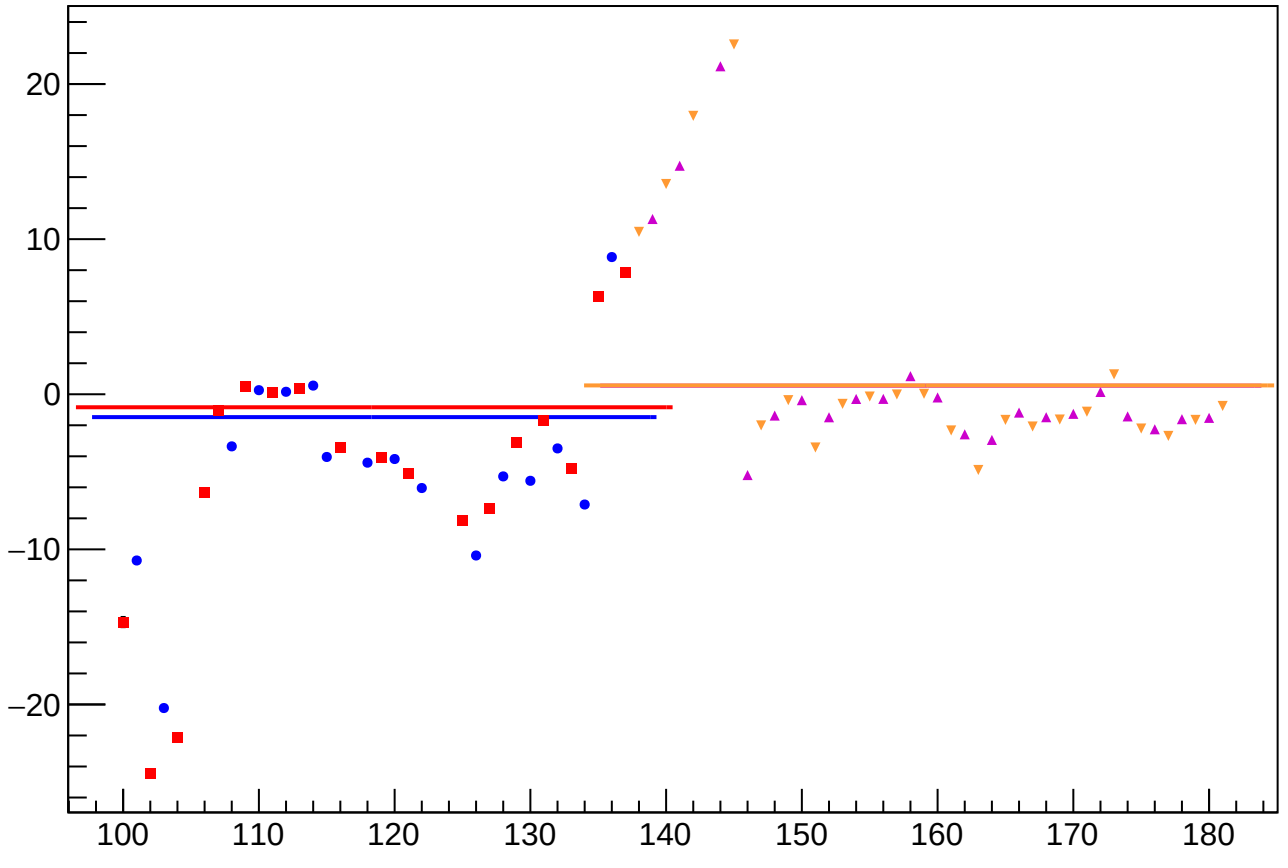
Left: -0.068+/-0.001 $\chi^2$/NDF: 7834.5/42

Right: -0.209+/-0.003 $\chi^2$/NDF: 27526.5/33

In: -0.091+/-0.001 $\chi^2$/NDF:18555.4/36

Out: -0.085+/-0.002 $\chi^2$/NDF:18967.6/39

All: -0.088+/-0.001 $\chi^2$/NDF: 37531.9/76




Right In: -1.474+/-0.019 $\chi^2$/NDF: 73722.2/15

Left Out: 0.570+/-0.015 $\chi^2$/NDF:127391.8/21

Right Out: -0.838+/-0.016 $\chi^2$/NDF: 78013.1/17

Left In: 0.553+/-0.015 $\chi^2$/NDF:128463.4/20

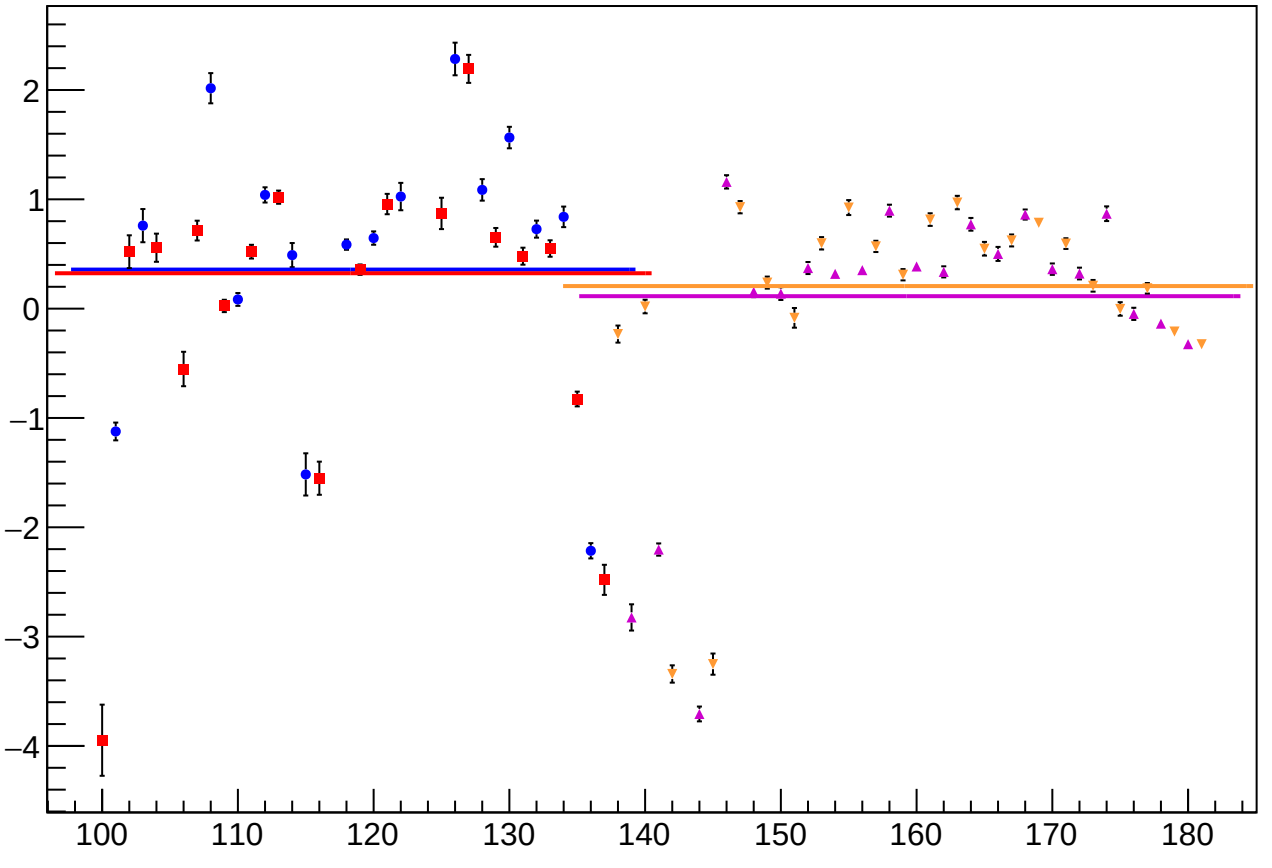
Left: 0.562+/-0.011 $\chi^2$/NDF: 255855.8/42

Right: -1.107+/-0.012 $\chi^2$/NDF: 152399.4/33

In: -0.223+/-0.012 $\chi^2$/NDF:209406.0/36

Out: -0.087+/-0.011 $\chi^2$/NDF:209525.5/39

All: -0.151+/-0.008 $\chi^2$/NDF: 419004.8/76




Right In: 0.357+/-0.021 $\chi^2$/NDF: 2543.0/15

Left Out: 0.206+/-0.012 $\chi^2$/NDF:4570.8/21

Right Out: 0.324+/-0.020 $\chi^2$/NDF: 1558.9/17

Left In: 0.114+/-0.011 $\chi^2$/NDF:6848.8/20

Left: 0.157+/-0.008 $\chi^2$/NDF: 11451.3/42

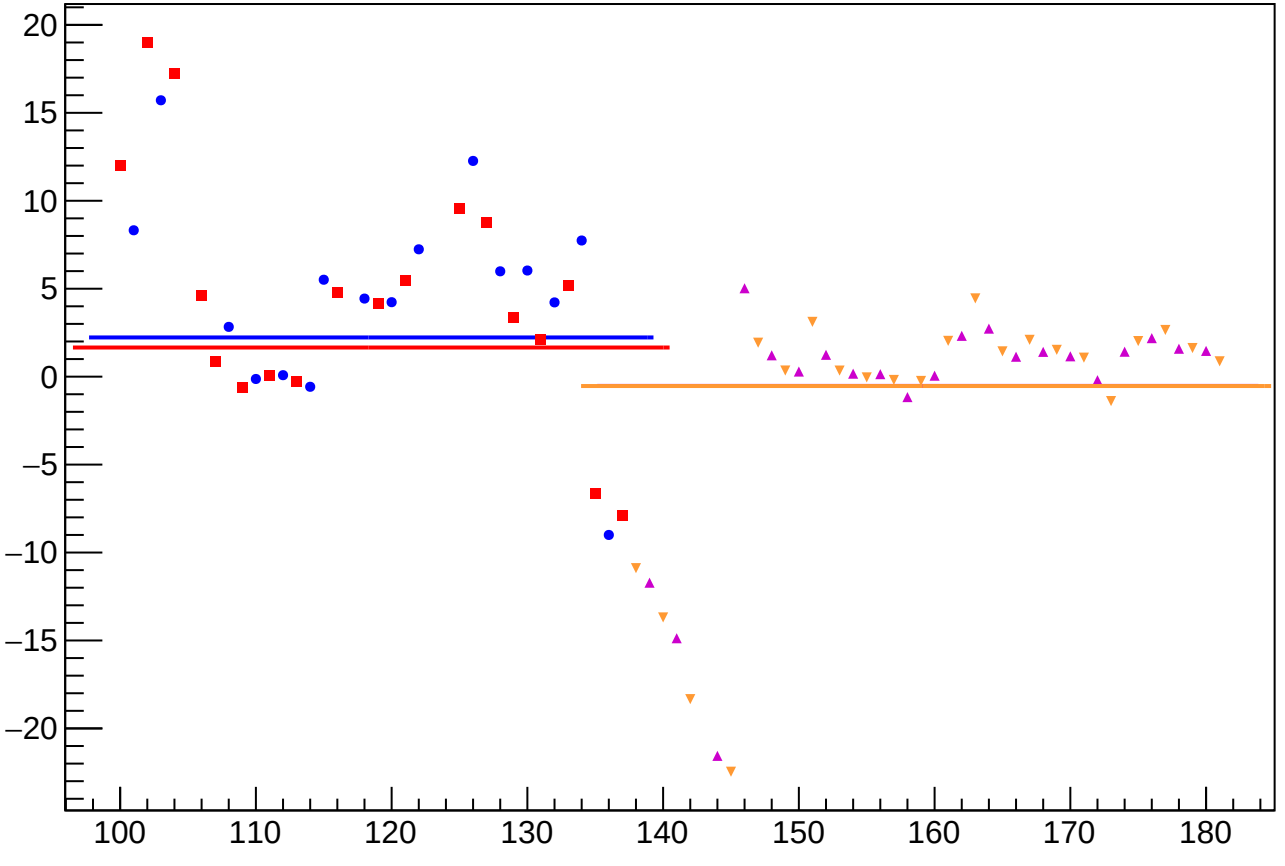
Right: 0.340+/-0.014 $\chi^2$/NDF: 4103.4/33

In: 0.170+/-0.010 $\chi^2$/NDF:9499.3/36

Out: 0.238+/-0.010 $\chi^2$/NDF:6155.6/39

All: 0.203+/-0.007 $\chi^2$/NDF: 15677.9/76

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 2.229+/-0.022 $\chi^2$/NDF: 69187.1/15

Left Out: -0.533+/-0.015 $\chi^2$/NDF:122820.3/21

Right Out: 1.657+/-0.020 $\chi^2$/NDF: 72797.4/17

Left In: -0.526+/-0.014 $\chi^2$/NDF:125365.6/20

Left: -0.529+/-0.010 $\chi^2$/NDF: 248186.1/42

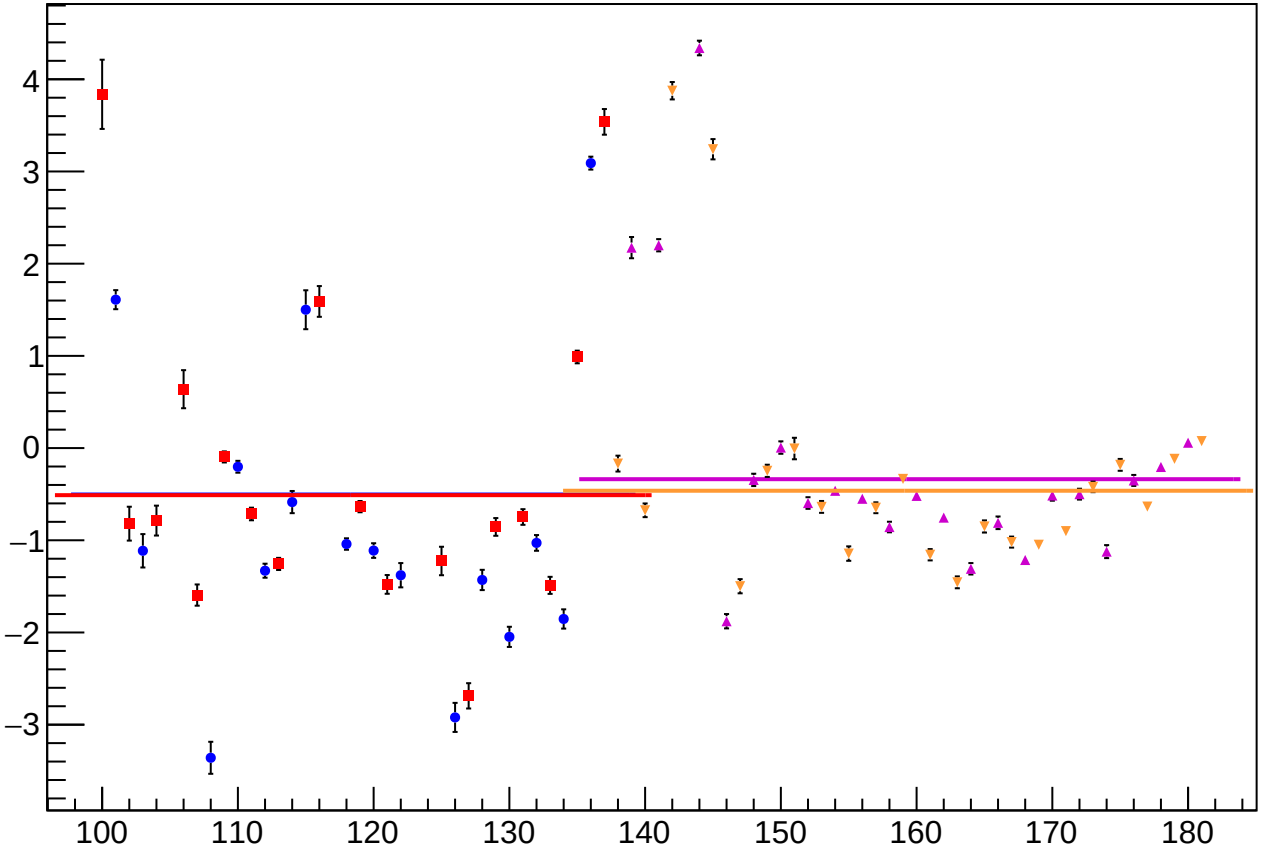
Right: 1.919+/-0.015 $\chi^2$/NDF: 142343.2/33

In: 0.291+/-0.012 $\chi^2$/NDF:205334.6/36

Out: 0.226+/-0.012 $\chi^2$/NDF:203112.7/39

All: 0.258+/-0.009 $\chi^2$/NDF: 408461.7/76

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -0.504+/-0.024 $\chi^2$/NDF: 4447.2/15

Left Out: -0.463+/-0.013 $\chi^2$/NDF:4511.5/21

Right Out: -0.511+/-0.022 $\chi^2$/NDF: 2424.0/17

Left In: -0.337+/-0.013 $\chi^2$/NDF:6799.9/20

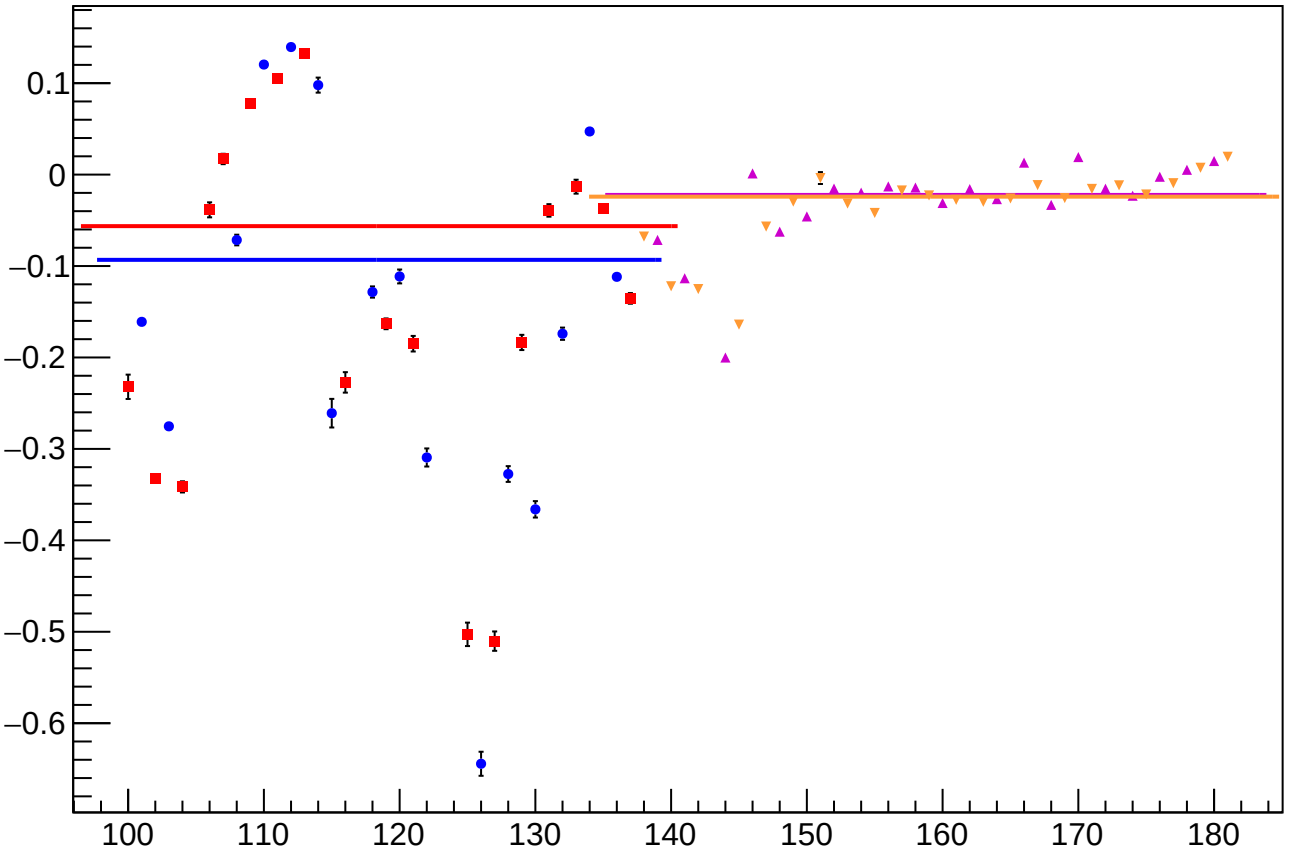
Left: -0.397+/-0.009 $\chi^2$/NDF: 11358.6/42

Right: -0.507+/-0.016 $\chi^2$/NDF: 6871.2/33

In: -0.374+/-0.011 $\chi^2$/NDF:11285.6/36

Out: -0.475+/-0.011 $\chi^2$/NDF:6938.9/39

All: -0.423+/-0.008 $\chi^2$/NDF: 18265.3/76




Right In: -0.093+/-0.001 $\chi^2$/NDF: 11742.4/15

Left Out: -0.024+/-0.001 $\chi^2$/NDF:3437.5/21

Right Out: -0.056+/-0.001 $\chi^2$/NDF: 14457.4/17

Left In: -0.022+/-0.001 $\chi^2$/NDF:4210.6/20

Left: -0.023+/-0.000 $\chi^2$/NDF: 7653.7/42

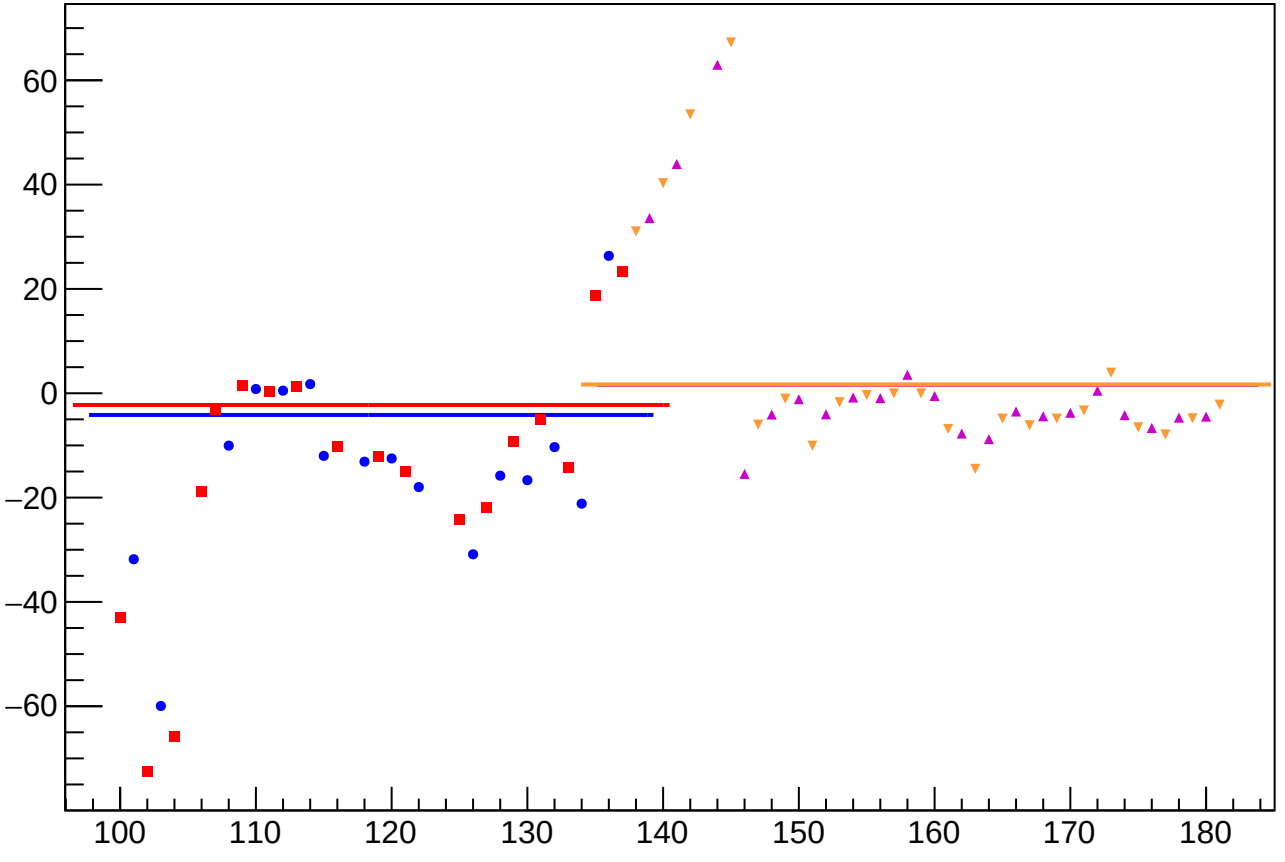
Right: -0.073+/-0.001 $\chi^2$/NDF: 26566.6/33

In: -0.031+/-0.001 $\chi^2$/NDF:18155.7/36

Out: -0.029+/-0.001 $\chi^2$/NDF:18403.8/39

All: -0.030+/-0.000 $\chi^2$/NDF: 36565.2/76

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -4.159+/-0.054 $\chi^2$/NDF: 75420.4/15

Left Out: 1.680+/-0.044 $\chi^2$/NDF:129548.2/21

Right Out: -2.251+/-0.046 $\chi^2$/NDF: 79637.5/17

Left In: 1.607+/-0.043 $\chi^2$/NDF:131029.3/20

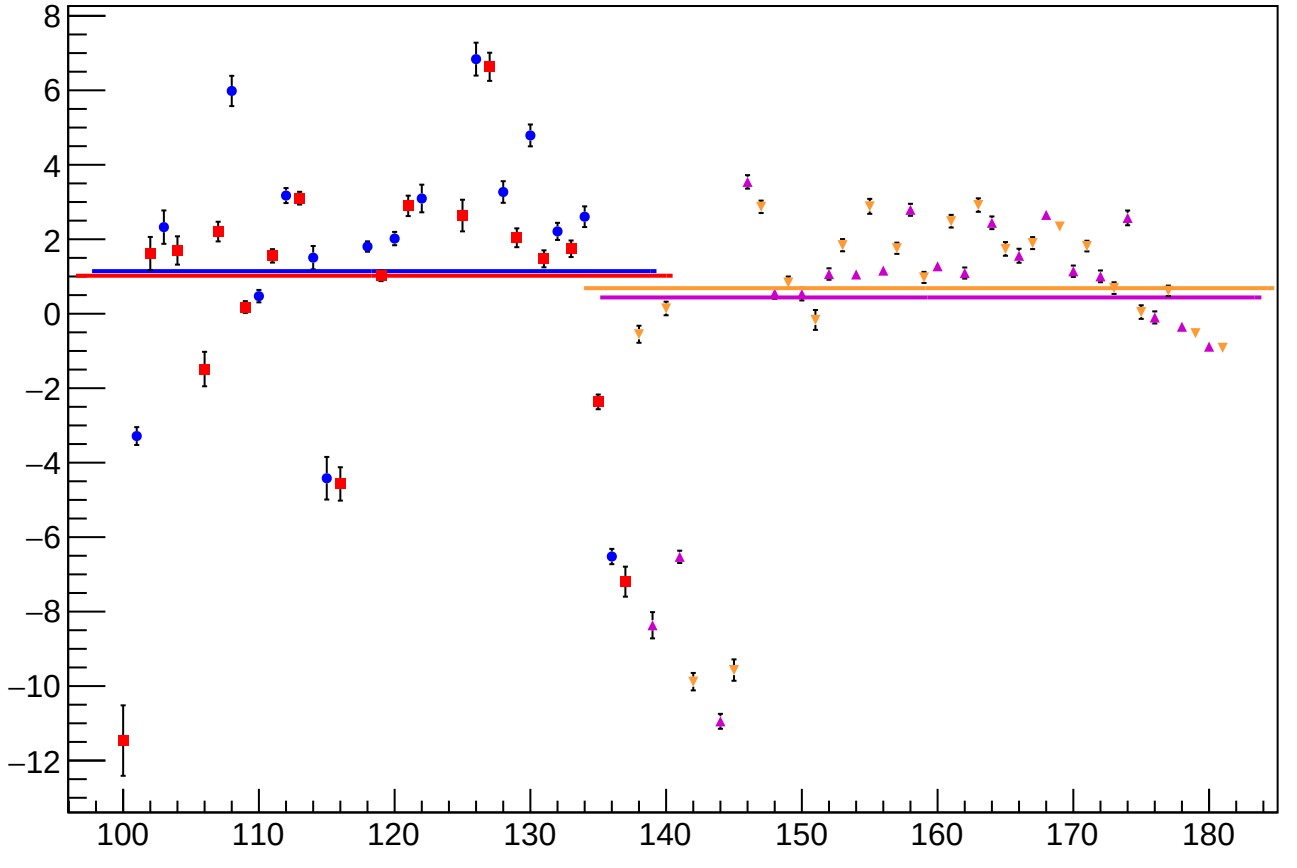
Left: 1.643+/-0.031 $\chi^2$/NDF: 260579.0/42

Right: -3.046+/-0.035 $\chi^2$/NDF: 155775.7/33

In: -0.614+/-0.034 $\chi^2$/NDF:213361.9/36

Out: -0.191+/-0.032 $\chi^2$/NDF:213019.7/39

All: -0.389+/-0.023 $\chi^2$/NDF: 426465.0/76




Right In: 1.144+/-0.060 $\chi^2$/NDF: 2595.3/15

Left Out: 0.687+/-0.035 $\chi^2$/NDF:4630.9/21

Right Out: 1.021+/-0.057 $\chi^2$/NDF: 1591.2/17

Left In: 0.437+/-0.033 $\chi^2$/NDF:7024.7/20

Left: 0.554+/-0.024 $\chi^2$/NDF: 11682.8/42

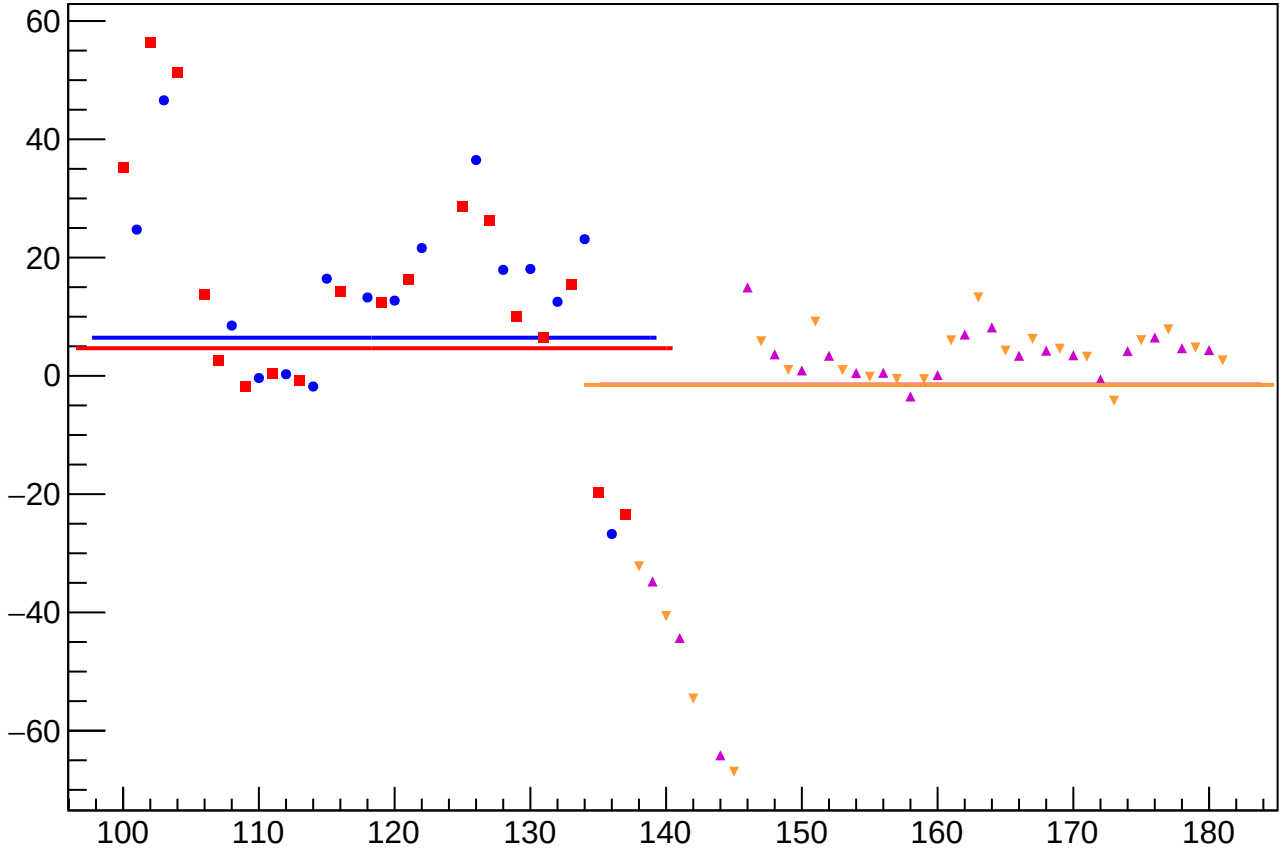
Right: 1.079+/-0.041 $\chi^2$/NDF: 4188.7/33

In: 0.599+/-0.029 $\chi^2$/NDF:9726.7/36

Out: 0.778+/-0.030 $\chi^2$/NDF:6247.0/39

All: 0.685+/-0.021 $\chi^2$/NDF: 15992.3/76

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 6.448+/-0.065 $\chi^2$/NDF: 70815.1/15

Left Out: -1.520+/-0.044 $\chi^2$/NDF:124915.8/21

Right Out: 4.671+/-0.059 $\chi^2$/NDF: 74420.3/17

Left In: -1.479+/-0.042 $\chi^2$/NDF:127828.8/20

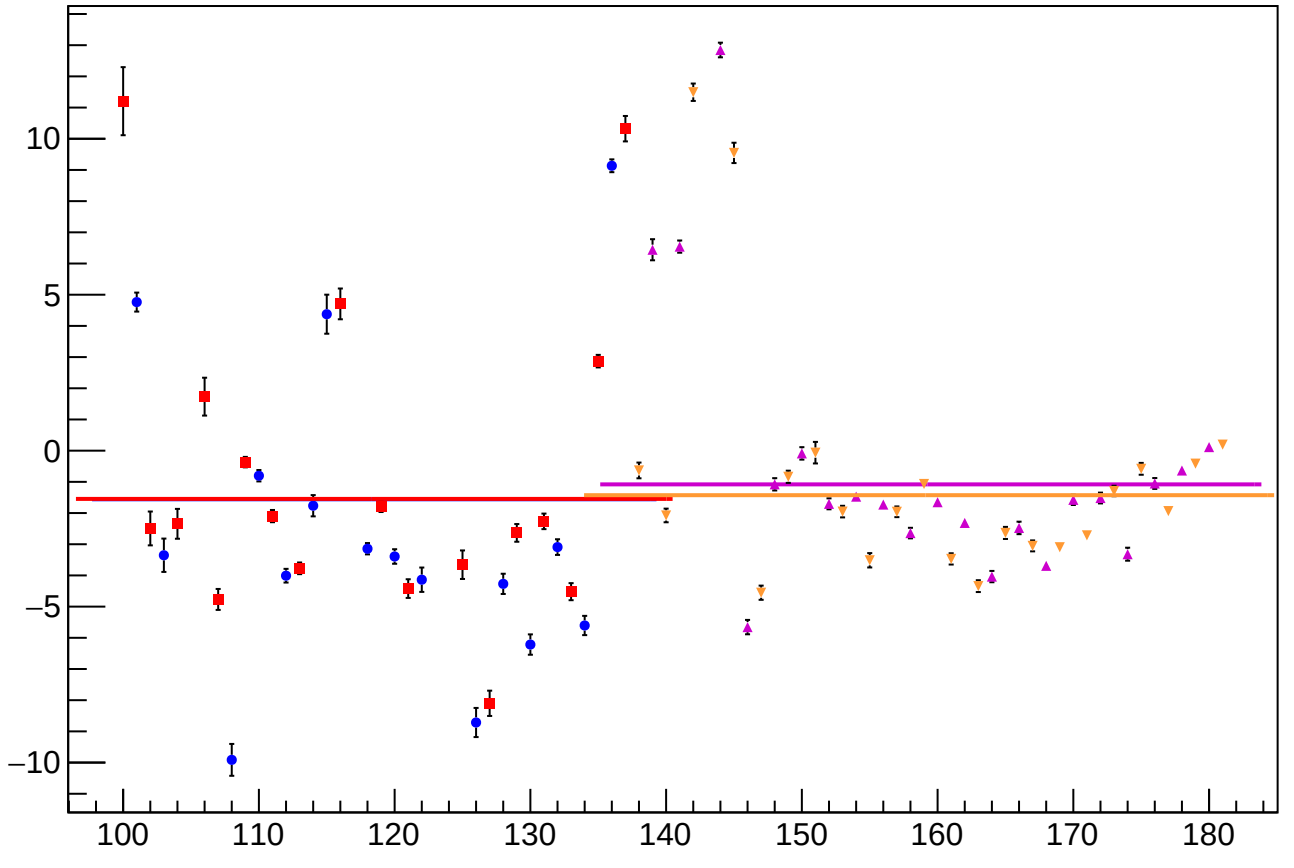
Left: -1.499+/-0.030 $\chi^2$/NDF: 252745.1/42

Right: 5.475+/-0.044 $\chi^2$/NDF: 145645.8/33

In: 0.867+/-0.035 $\chi^2$/NDF:209149.7/36

Out: 0.662+/-0.035 $\chi^2$/NDF:206463.2/39

All: 0.764+/-0.025 $\chi^2$/NDF: 415629.9/76




Right In: -1.558+/-0.069 $\chi^2$/NDF: 4543.1/15

Left Out: -1.427+/-0.039 $\chi^2$/NDF:4566.7/21

Right Out: -1.547+/-0.064 $\chi^2$/NDF: 2470.1/17

Left In: -1.081+/-0.036 $\chi^2$/NDF:6961.9/20

Left: -1.243+/-0.027 $\chi^2$/NDF: 11571.0/42

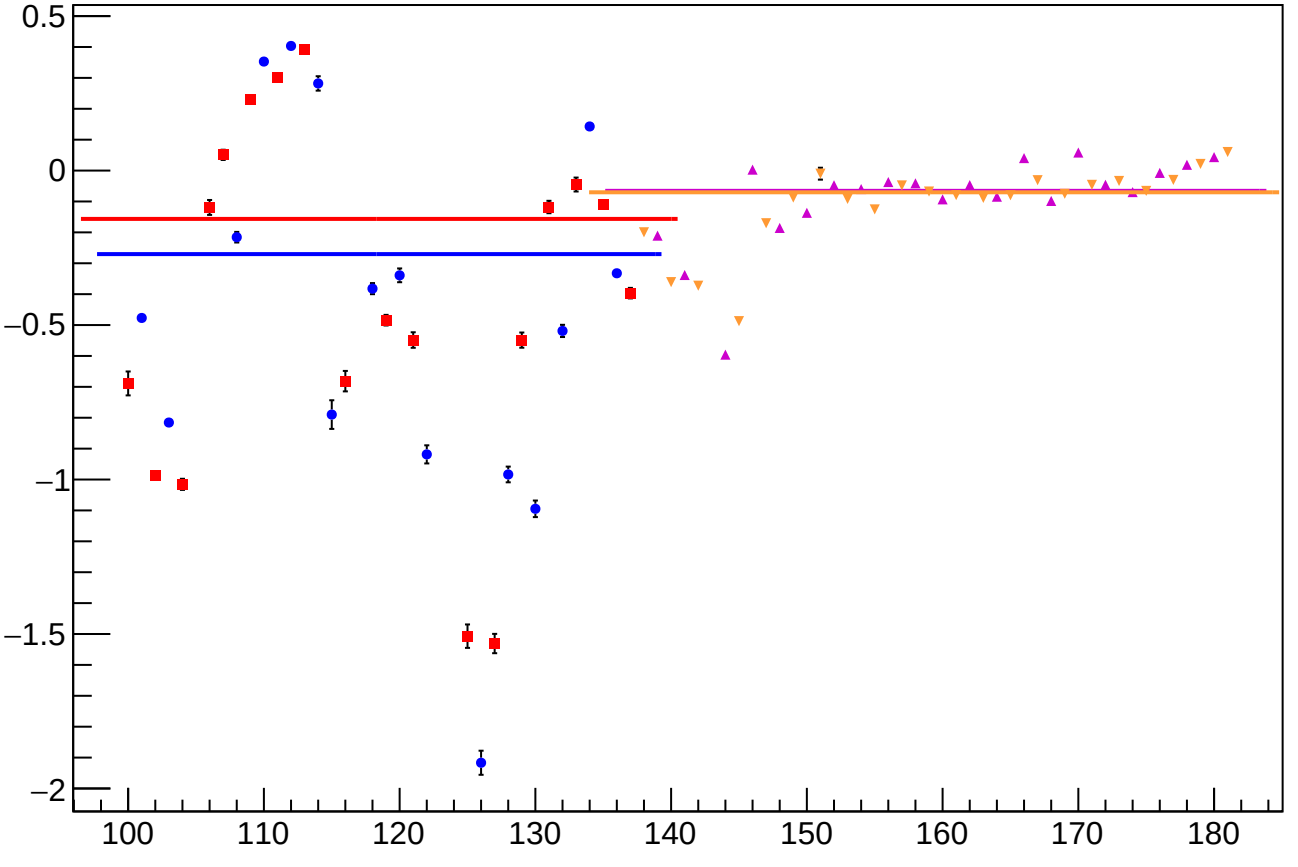
Right: -1.552+/-0.047 $\chi^2$/NDF: 7013.2/33

In: -1.185+/-0.032 $\chi^2$/NDF:11542.3/36

Out: -1.459+/-0.033 $\chi^2$/NDF:7039.3/39

All: -1.318+/-0.023 $\chi^2$/NDF: 18616.6/76

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.270+/-0.004 $\chi^2$/NDF: 12096.8/15

Left Out: -0.070+/-0.002 $\chi^2$/NDF:3517.1/21

Right Out: -0.156+/-0.004 $\chi^2$/NDF: 15030.0/17

Left In: -0.066+/-0.002 $\chi^2$/NDF:4315.9/20

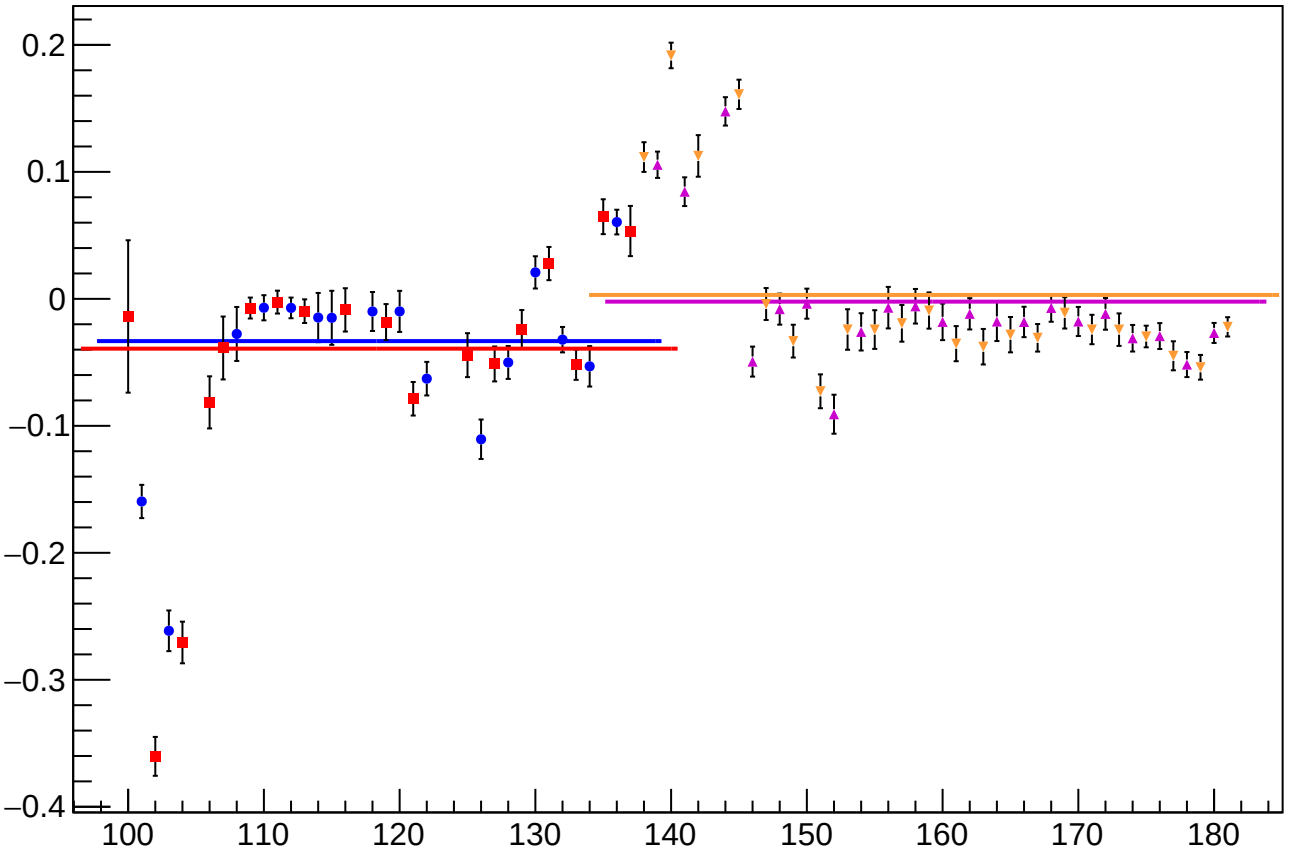
Left: -0.068+/-0.001 $\chi^2$/NDF: 7837.2/42

Right: -0.208+/-0.003 $\chi^2$/NDF: 27539.3/33

In: -0.091+/-0.001 $\chi^2$/NDF:18556.8/36

Out: -0.085+/-0.002 $\chi^2$/NDF:18977.8/39

All: -0.088+/-0.001 $\chi^2$/NDF: 37543.8/76




Right In: -0.033+/-0.003 $\chi^2$/NDF: 463.5/15

Left Out: 0.003+/-0.003 $\chi^2$/NDF:839.8/21

Right Out: -0.039+/-0.003 $\chi^2$/NDF: 807.6/17

Left In: -0.002+/-0.003 $\chi^2$/NDF:455.9/20

Left: 0.000+/-0.002 $\chi^2$/NDF: 1297.8/42

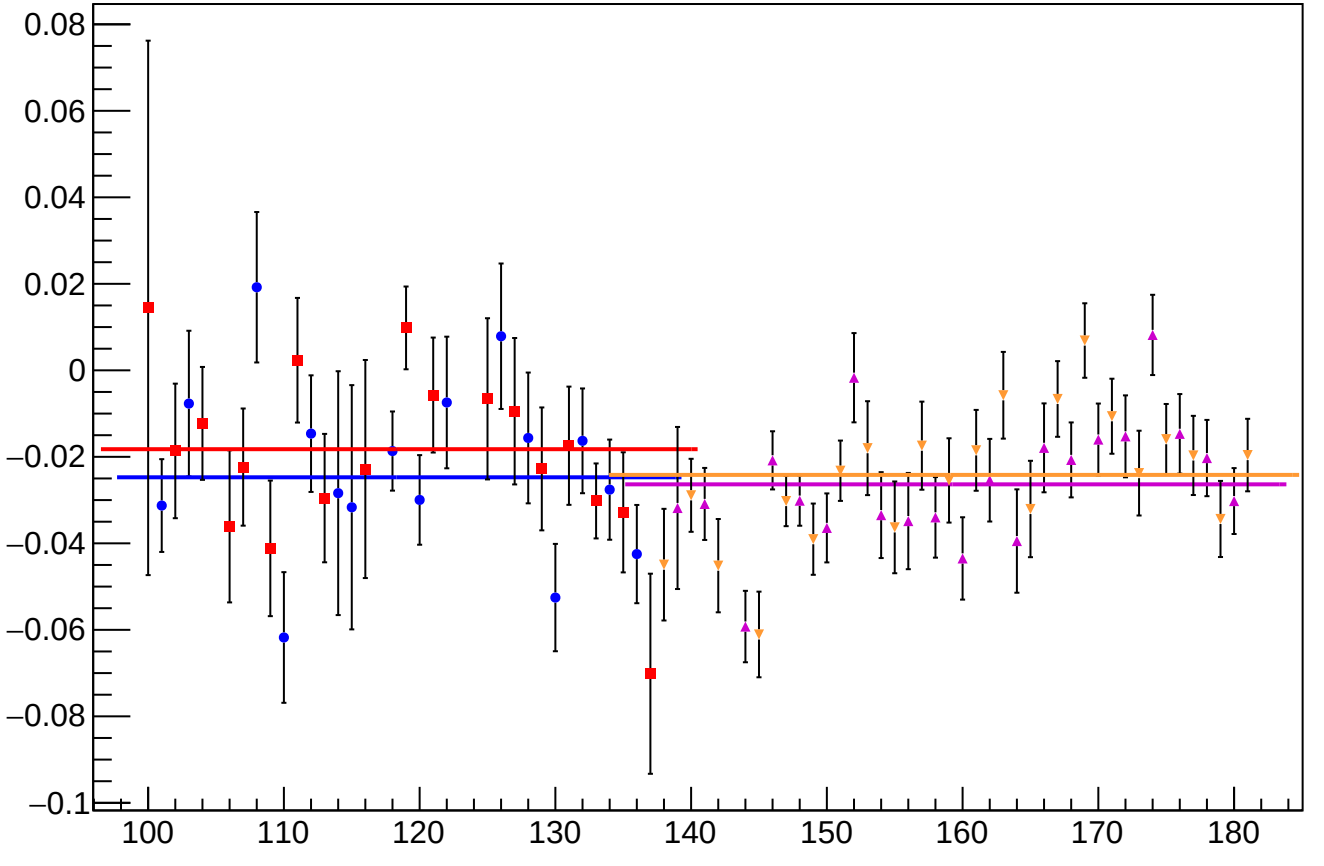
Right: -0.036+/-0.002 $\chi^2$/NDF: 1272.8/33

In: -0.014+/-0.002 $\chi^2$/NDF:976.8/36

Out: -0.013+/-0.002 $\chi^2$/NDF:1755.9/39

All: -0.014+/-0.001 $\chi^2$/NDF: 2732.9/76

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.025+/-0.003 $\chi^2$/NDF: 28.5/15

Left Out: -0.024+/-0.002 $\chi^2$/NDF:53.7/21

Right Out: -0.018+/-0.003 $\chi^2$/NDF: 24.7/17

Left In: -0.026+/-0.002 $\chi^2$/NDF:51.1/20

Left: -0.025+/-0.001 $\chi^2$/NDF: 105.4/42

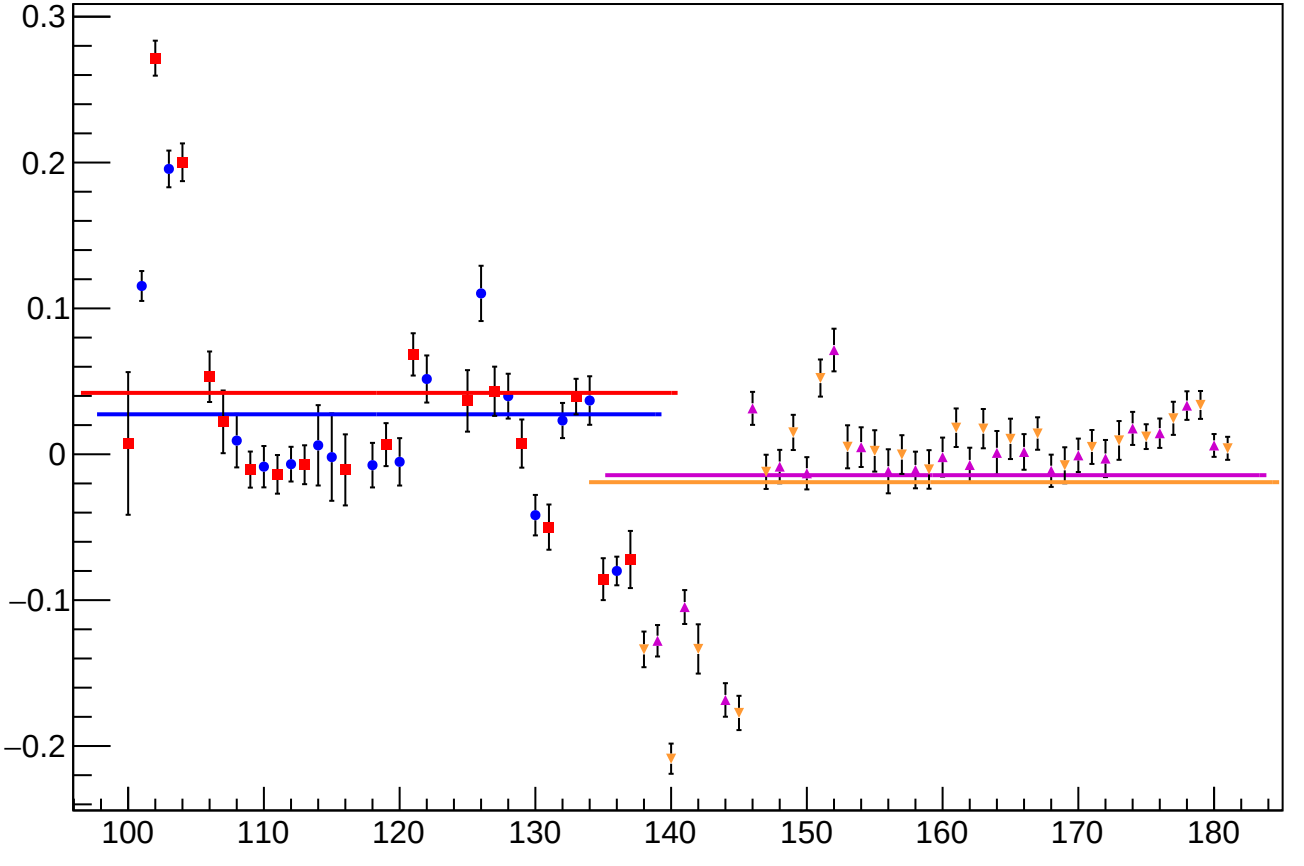
Right: -0.022+/-0.002 $\chi^2$/NDF: 55.1/33

In: -0.026+/-0.002 $\chi^2$/NDF:79.8/36

Out: -0.023+/-0.002 $\chi^2$/NDF:80.7/39

All: -0.024+/-0.001 $\chi^2$/NDF: 162.4/76

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 0.027+/-0.004 $\chi^2$/NDF: 446.1/15

Left Out: -0.019+/-0.002 $\chi^2$/NDF:804.3/21

Right Out: 0.042+/-0.004 $\chi^2$/NDF: 733.2/17

Left In: -0.014+/-0.003 $\chi^2$/NDF:456.8/20

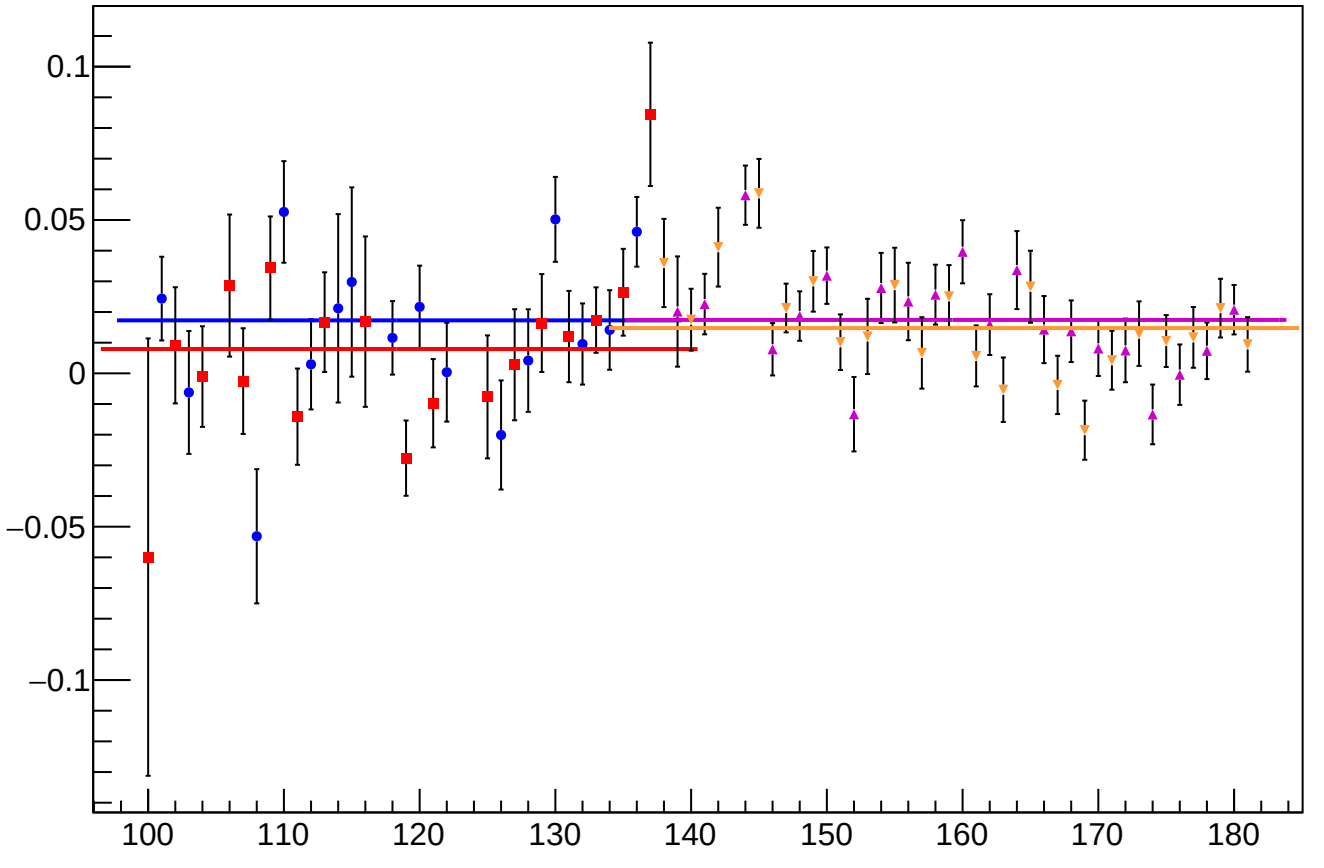
Left: -0.017+/-0.002 $\chi^2$/NDF: 1262.9/42

Right: 0.035+/-0.003 $\chi^2$/NDF: 1187.6/33

In: -0.001+/-0.002 $\chi^2$/NDF:994.1/36

Out: 0.000+/-0.002 $\chi^2$/NDF:1730.2/39

All: -0.000+/-0.001 $\chi^2$/NDF: 2724.4/76




Right In: 0.017+/-0.004 $\chi^2$/NDF: 36.7/15

Left Out: 0.015+/-0.002 $\chi^2$/NDF:51.9/21

Right Out: 0.008+/-0.004 $\chi^2$/NDF: 31.4/17

Left In: 0.017+/-0.002 $\chi^2$/NDF:53.1/20

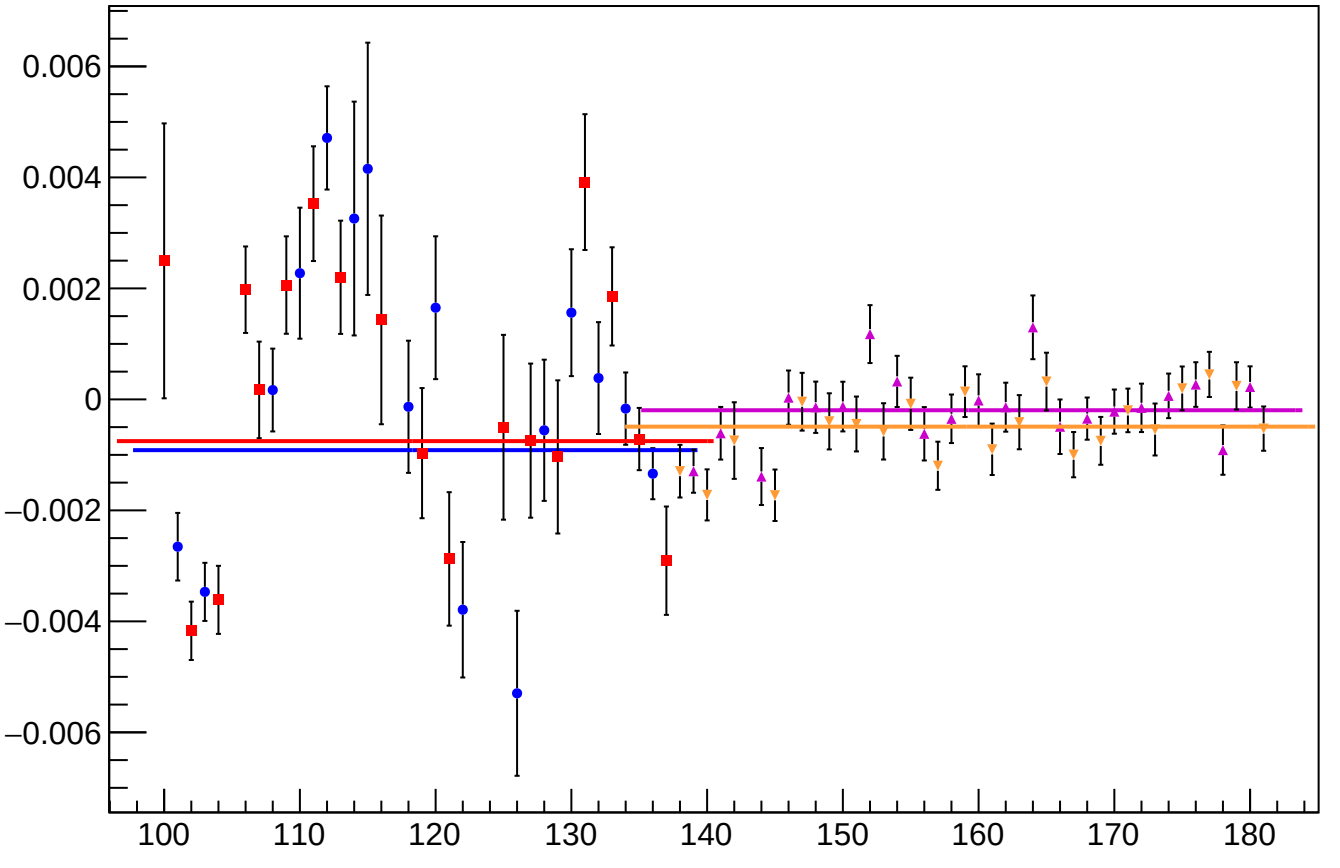
Left: 0.016+/-0.002 $\chi^2$/NDF: 105.8/42

Right: 0.013+/-0.003 $\chi^2$/NDF: 71.0/33

In: 0.017+/-0.002 $\chi^2$/NDF:89.8/36

Out: 0.013+/-0.002 $\chi^2$/NDF:85.7/39

All: 0.015+/-0.001 $\chi^2$/NDF: 177.9/76




Right In: -0.001+/-0.000 $\chi^2$/NDF: 114.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:40.4/21

Right Out: -0.001+/-0.000 $\chi^2$/NDF: 147.6/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:36.6/20

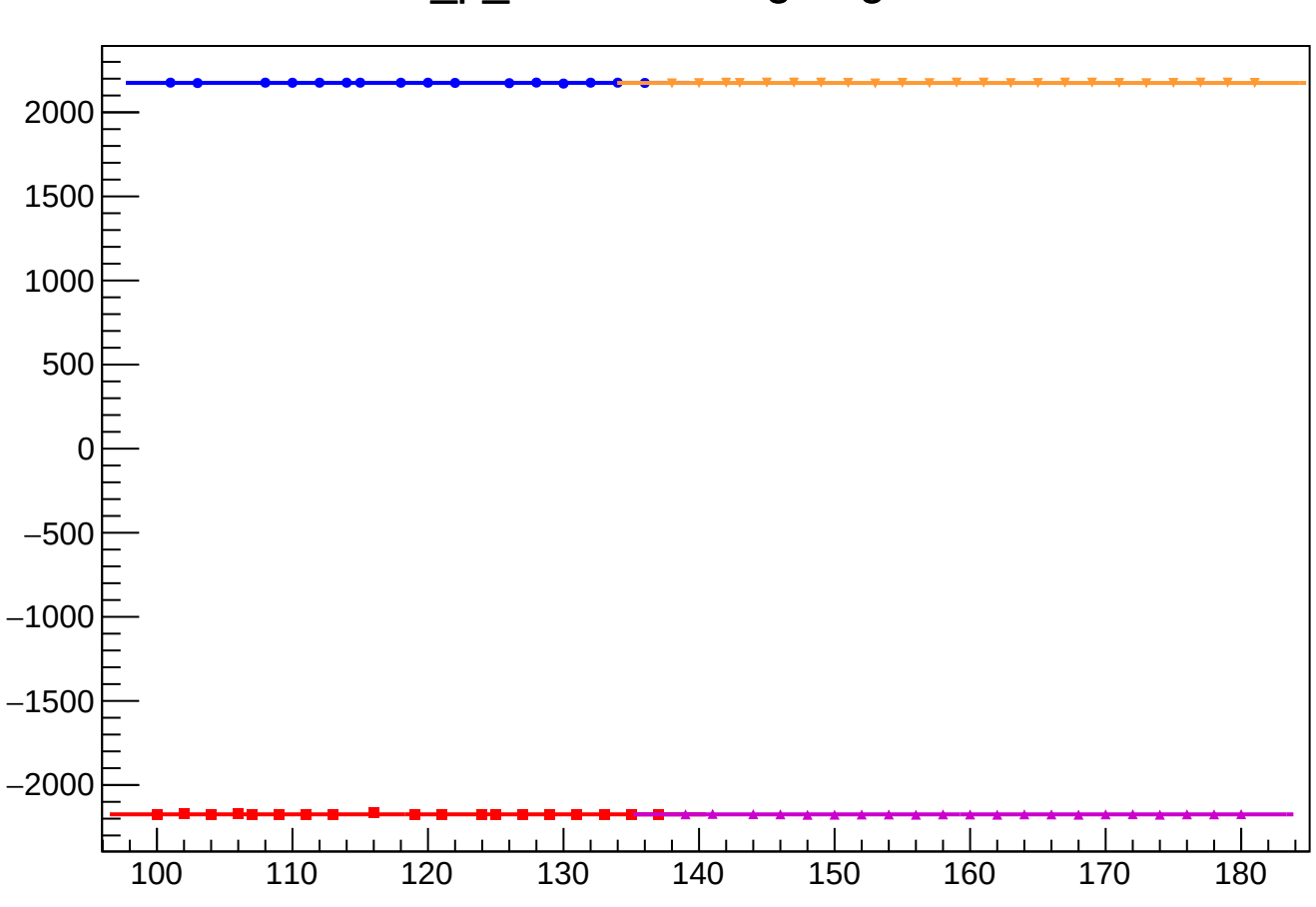
Left: -0.000+/-0.000 $\chi^2$/NDF: 81.7/42

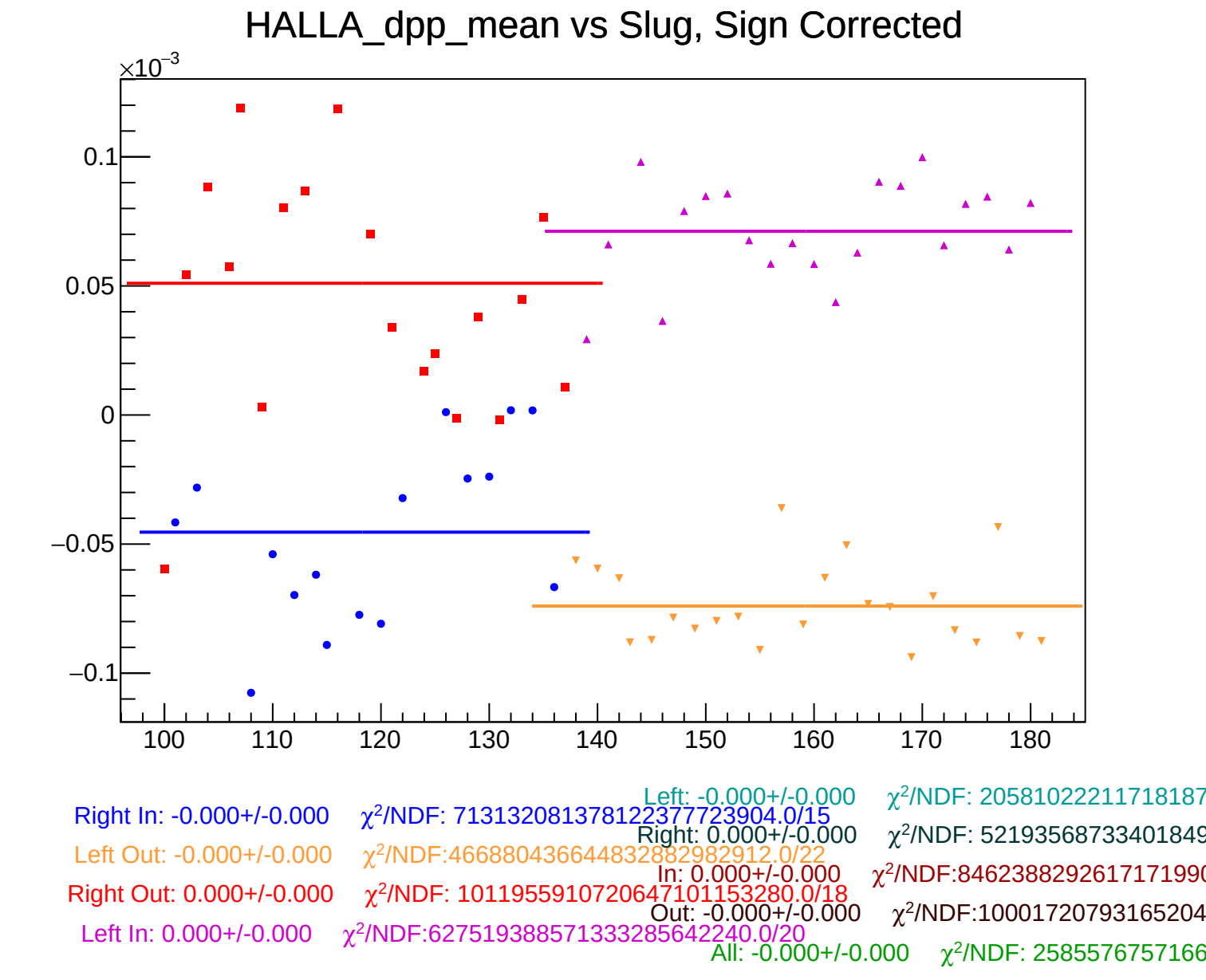
Right: -0.001+/-0.000 $\chi^2$/NDF: 261.9/33

In: -0.000+/-0.000 $\chi^2$/NDF:160.2/36

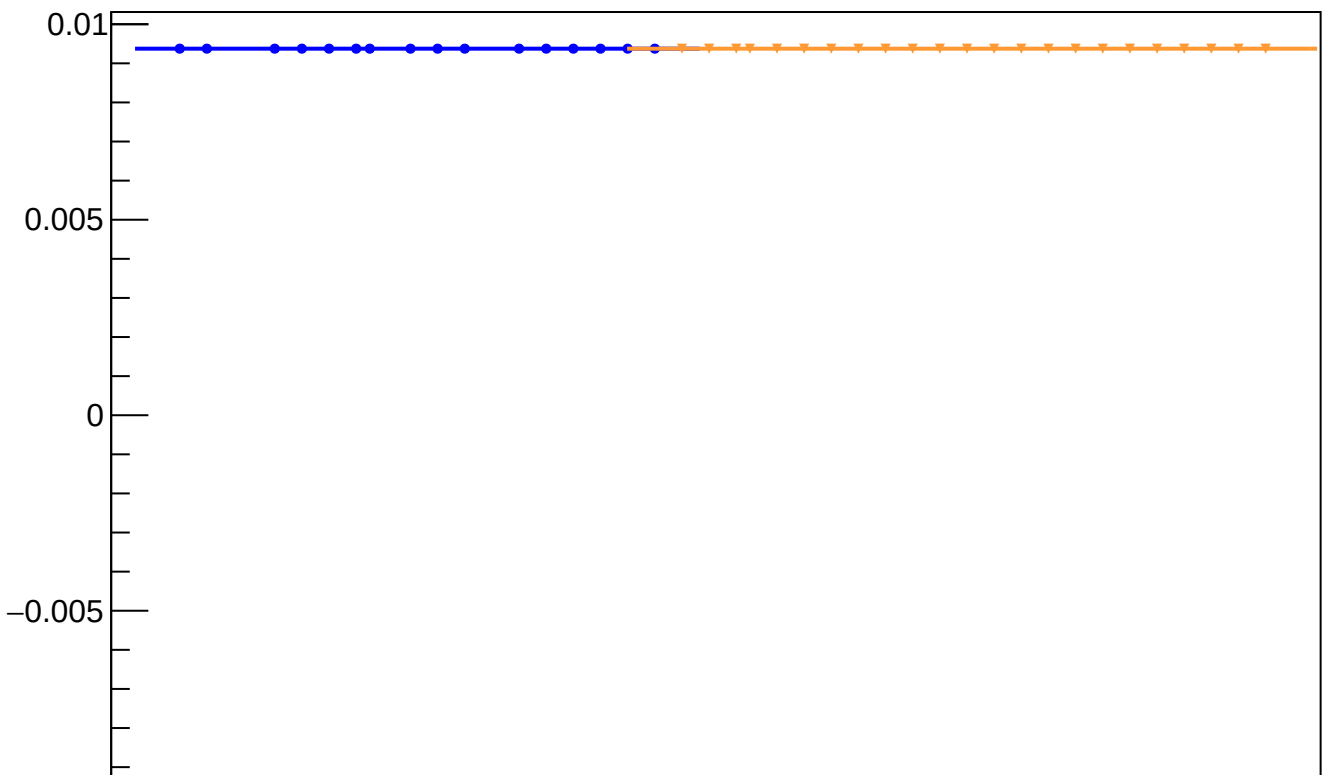
Out: -0.001+/-0.000 $\chi^2$/NDF:189.2/39

All: -0.000+/-0.000 $\chi^2$/NDF: 352.4/76


HALLA_p_mean vs Slug, Sign Corrected
2000
1500
1000
500
0
−500
−1000
−1500
−2000
100
110
120
130
140
150
160
170
180
Right In: 2175.201+/-0.000 χ²/NDF: 176572407292366018093705133136281 6.0/15
Left Out: 2174.626+/-0.000 χ²/NDF:4705463621450767968692914364612608.0/22
Right Out: -2174.324+/-0.000 χ²/NDF: 554223941568104692872352720171 8272.0/18
Left In: -2174.530+/-0.000 χ²/NDF:333879855507400906337041722952908 8.0/20
Left: 67.012+/-0.000 χ²/NDF: 17489380837432575
Right: -31.373+/-0.000 χ²/NDF: 7111791049076111
In: -903.070+/-0.000 χ²/NDF:9921735712471751
Out: 932.301+/-0.000 χ²/NDF:1030856399095948
All: 38.589+/-0.000 χ²/NDF: 2461152428277


HALLA_dpp_mean vs Slug, Sign Corrected
×10^−3
0.1
0.05
0
−0.05
−0.1
100
110
120
130
140
150
160
170
180
Right In: -0.000+/-0.000 χ²/NDF: 7131320813781223777239040.0/15
Left Out: -0.000+/-0.000 χ²/NDF:4668804366448328829829120.0/22
Right Out: 0.000+/-0.000 χ²/NDF: 10119559107206471011532800.0/18
Left In: 0.000+/-0.000 χ²/NDF:6275193885713332856422400.0/20
Left: -0.000+/-0.000 χ²/NDF: 20581022211718187
Right: 0.000+/-0.000 χ²/NDF: 52193568733401849
In: 0.000+/-0.000 χ²/NDF:8462388292617171990
Out: -0.000+/-0.000 χ²/NDF:10001720793165204
All: -0.000+/-0.000 χ²/NDF: 2585576757166

# MQ171LM_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/22

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/20

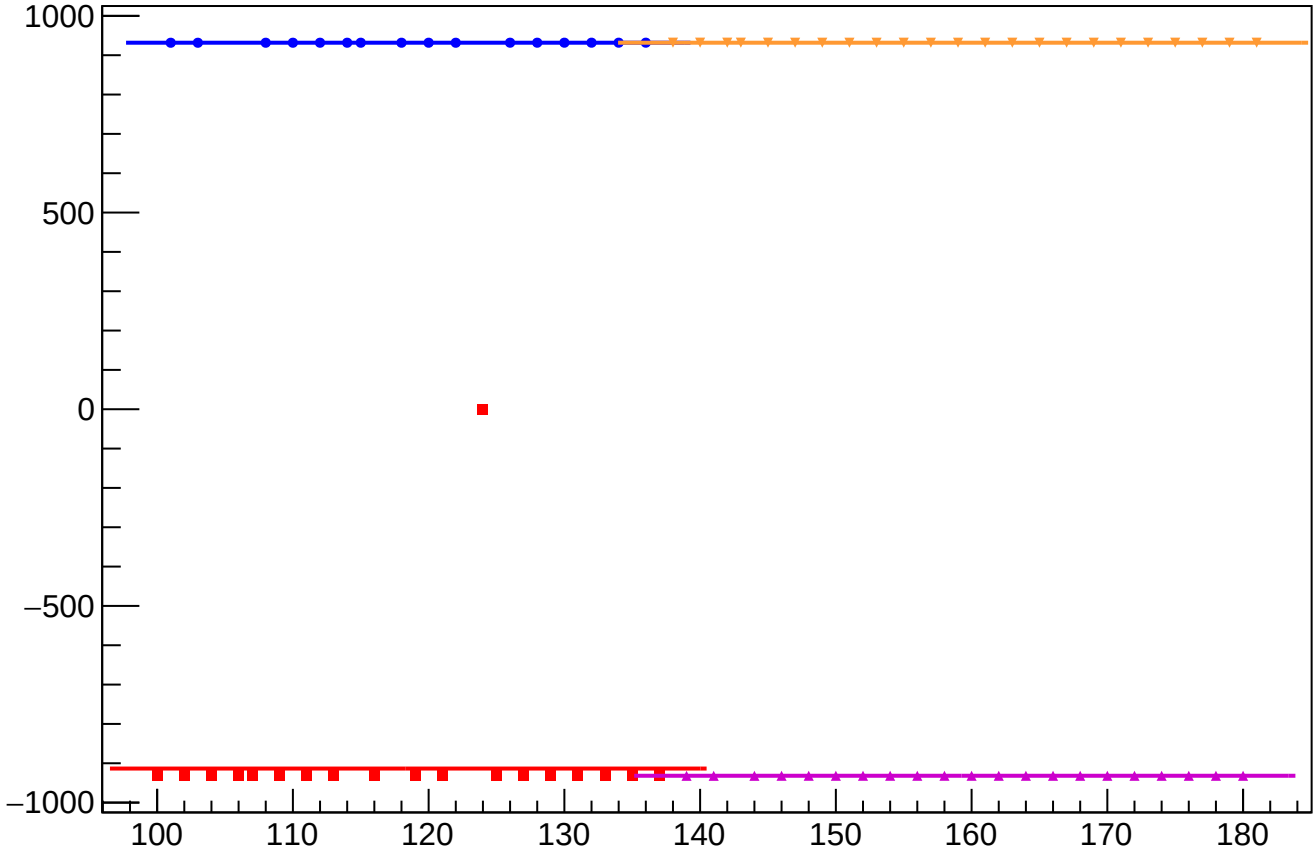
Left: 0.000+/-0.000 $\chi^2$/NDF: 325062550648297100

Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: -0.004+/-0.000 $\chi^2$/NDF:184359374999999549

Out: 0.004+/-0.000 $\chi^2$/NDF:191615909303631204

All: 0.000+/-0.000 $\chi^2$/NDF: 45741569973347




Right In: 931.769+/-0.000 $\chi^2$/NDF: 2757217223595001187167685836800.0/15

Left Out: 931.785+/-0.000 $\chi^2$/NDF:42199924086724176917991595704320.0/22

Right Out: -913.447+/-0.000 $\chi^2$/NDF: 12765879635094435683491886518824337408.0/18

Left In: -931.778+/-0.000 $\chi^2$/NDF:38141901836502387607405991034880.0/20

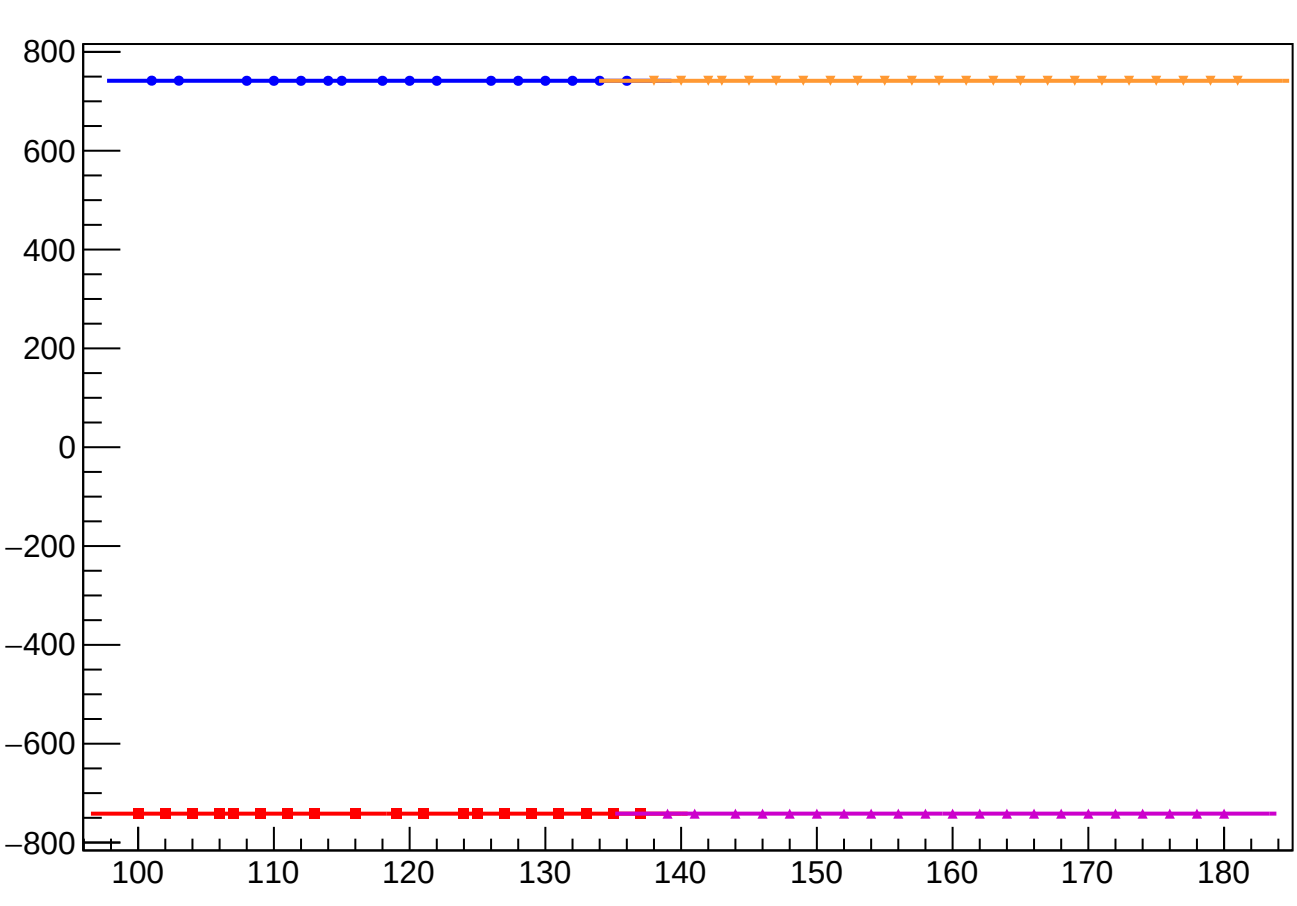
Left: 28.697+/-0.000 $\chi^2$/NDF: 3211090982690733

Right: -4.335+/-0.000 $\chi^2$/NDF: 1292705120140630

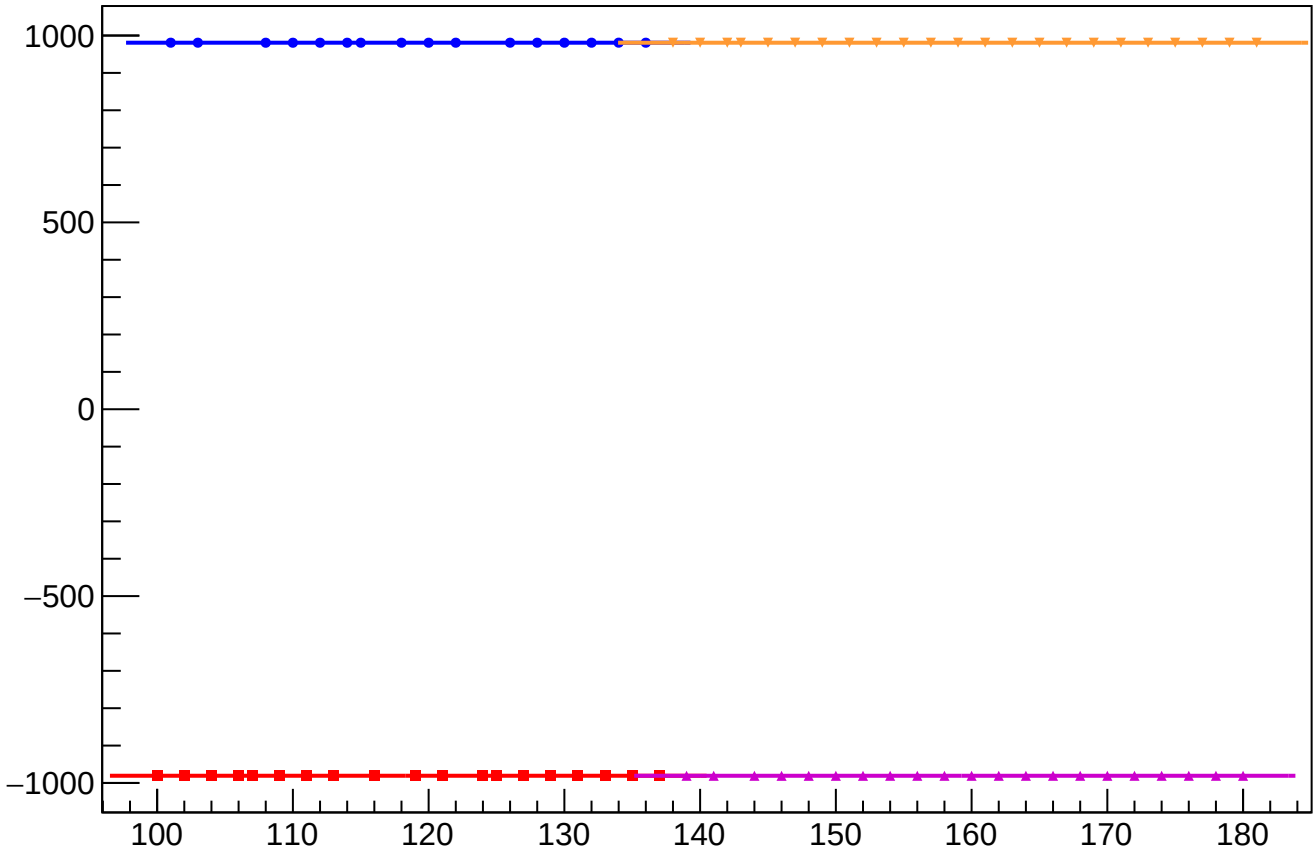
In: -387.049+/-0.000 $\chi^2$/NDF:1821140305903959

Out: 404.675+/-0.000 $\chi^2$/NDF:1868565290332940

All: 19.154+/-0.000 $\chi^2$/NDF: 450496301584


HacL_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected
800
600
400
200
0
−200
−400
−600
−800
100
110
120
130
140
150
160
170
180
Right In: 741.569+/-0.000 χ²/NDF: 643295117612794706193889938636 8.0/15
Left Out: 741.513+/-0.000 χ²/NDF:2362079718861957355247060910 08.0/22
Right Out: -741.577+/-0.000 χ²/NDF: 769226394789261471153747761 5616.0/18
Left In: -741.512+/-0.000 χ²/NDF:214744336520281732099002597376.0/20
Left: 22.835+/-0.000 χ²/NDF: 20335791945651373
Right: -10.851+/-0.000 χ²/NDF: 826918104240998
In: -307.996+/-0.000 χ²/NDF:1153432938468294
Out: 317.852+/-0.000 χ²/NDF:119884666432788
All: 13.103+/-0.000 χ²/NDF: 2861710905043

# HacL_Q3_HP3458A_IOUT_mean vs Slug, Sign Corrected




Left: 30.199+/-0.000 $\chi^2$/NDF: 3557617987158577

Right In: 980.804+/-0.000 $\chi^2$/NDF: 9333132768848077867742459330560.0/15

Right: -14.307+/-0.000 $\chi^2$/NDF: 144638600880856

Left Out: 980.768+/-0.000 $\chi^2$/NDF:76827285925573759737332865433 36.0/22

In: -407.389+/-0.000 $\chi^2$/NDF:2017778891353644

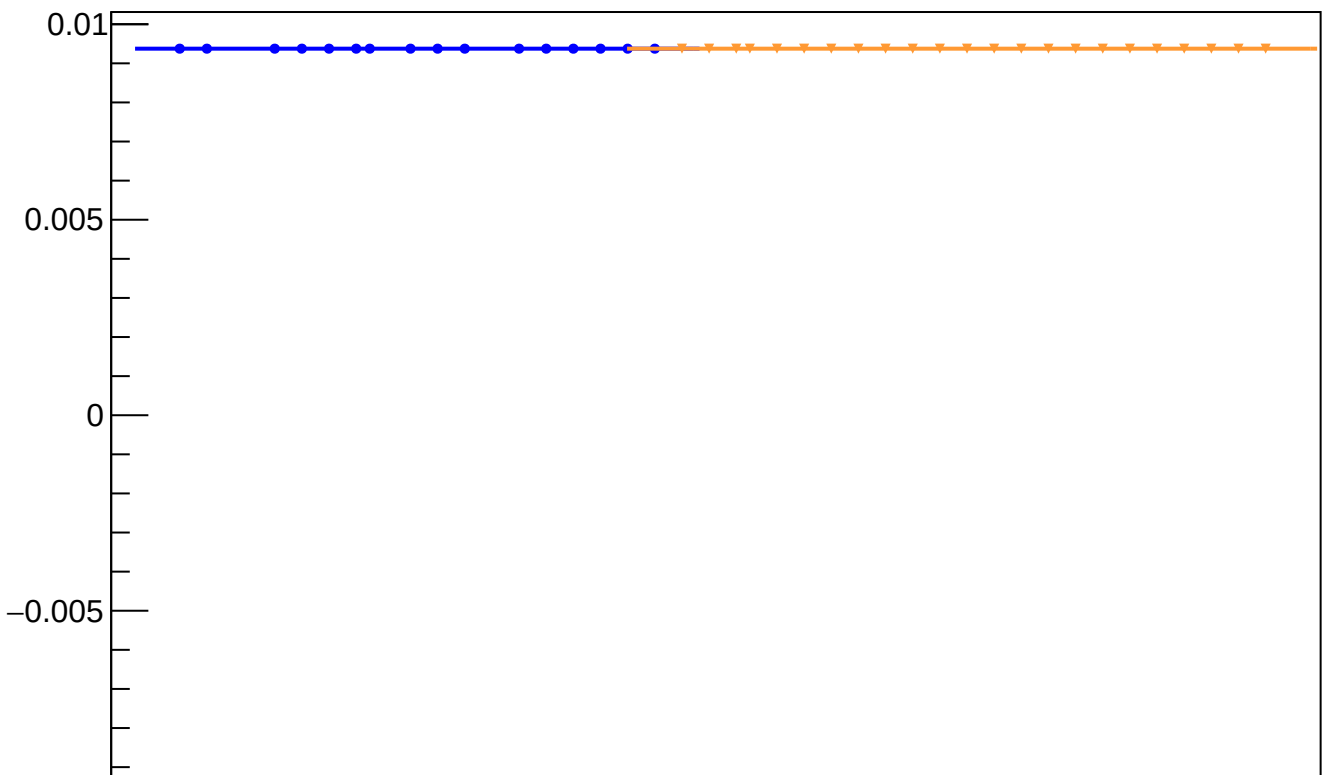
Right Out: -980.725+/-0.000 $\chi^2$/NDF: 560402056173583362216628762705920.0/18

Out: 420.446+/-0.000 $\chi^2$/NDF:2097018893852241

Left In: -980.773+/-0.000 $\chi^2$/NDF:151245207827606807367853621248.0/20

All: 17.342+/-0.000 $\chi^2$/NDF: 5006122428405

# MQ172RM_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/22

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/20

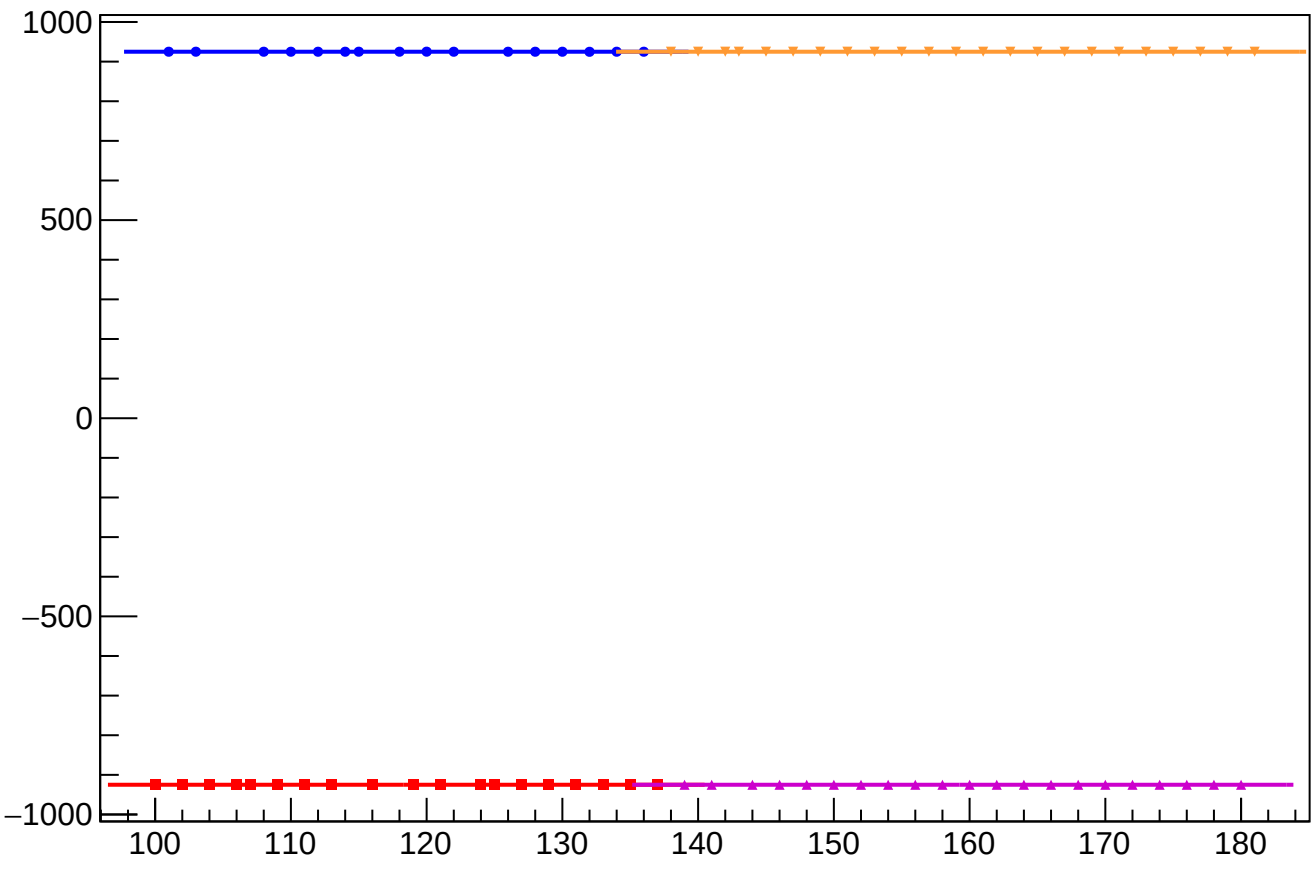
Left: 0.000+/-0.000 $\chi^2$/NDF: 325062550648297100

Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: -0.004+/-0.000 $\chi^2$/NDF:184359374999999549

Out: 0.004+/-0.000 $\chi^2$/NDF:191615909303631204

All: 0.000+/-0.000 $\chi^2$/NDF: 45741569973347




Right In: 924.966+/-0.000 $\chi^2$/NDF: 254437050808765880053303712153 6.0/15

Left Out: 924.981+/-0.000 $\chi^2$/NDF:104198122611265707523917951 7952.0/22

Right Out: -924.974+/-0.000 $\chi^2$/NDF: 124198152111689090023635183 2064.0/18

Left In: -924.983+/-0.000 $\chi^2$/NDF:825180608332624731191044472832.0/20

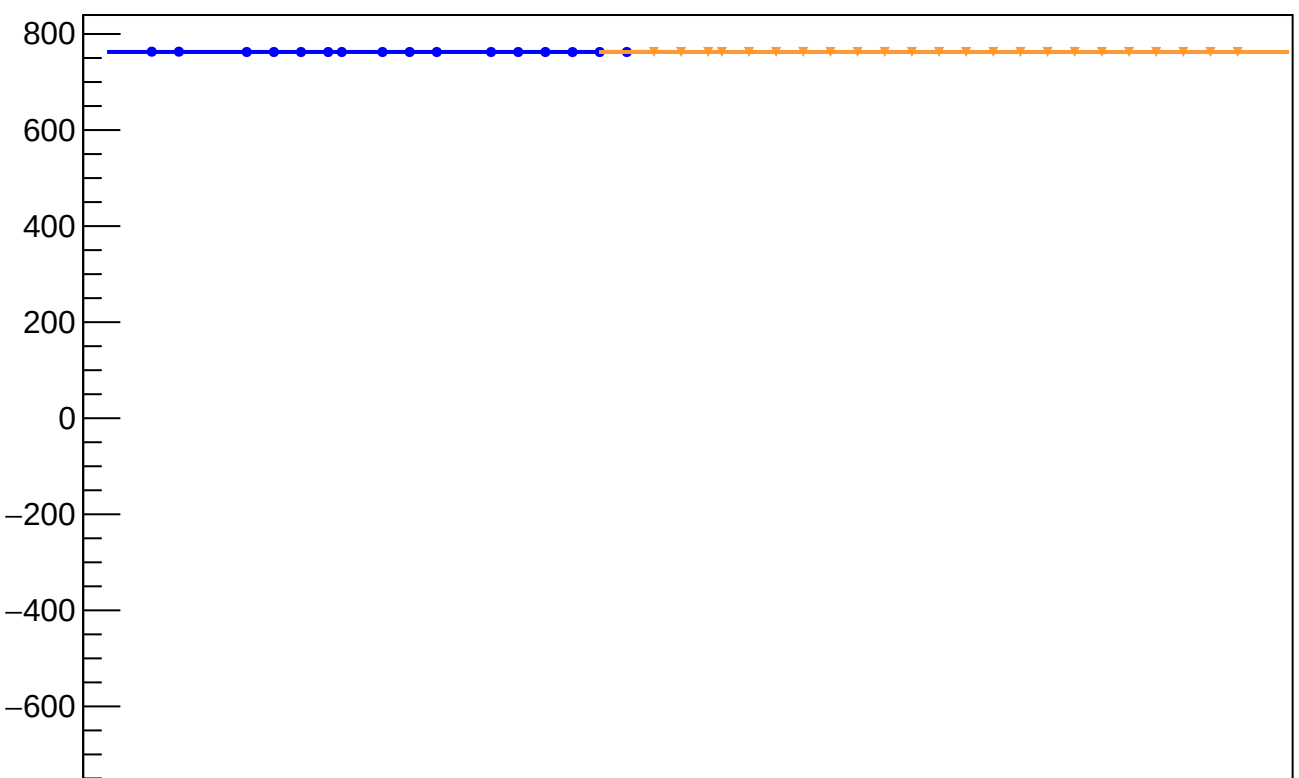
Left: 28.483+/-0.000 $\chi^2$/NDF: 3164399307252819 9

Right: -13.534+/-0.000 $\chi^2$/NDF: 12865015591145 0

In: -384.229+/-0.000 $\chi^2$/NDF:1794660916528827

Out: 396.522+/-0.000 $\chi^2$/NDF:1865312460851130

All: 16.345+/-0.000 $\chi^2$/NDF: 445278901062 6




Left: 23.481+/-0.000 $\chi^2$/NDF: 21504234545855452

Right In: 762.611+/-0.000 $\chi^2$/NDF: 52161453489138778834460408283136.0/15

Right: -11.159+/-0.000 $\chi^2$/NDF: 8745102746392638

Left Out: 762.517+/-0.000 $\chi^2$/NDF:7346461450054711046082773647 36.0/22

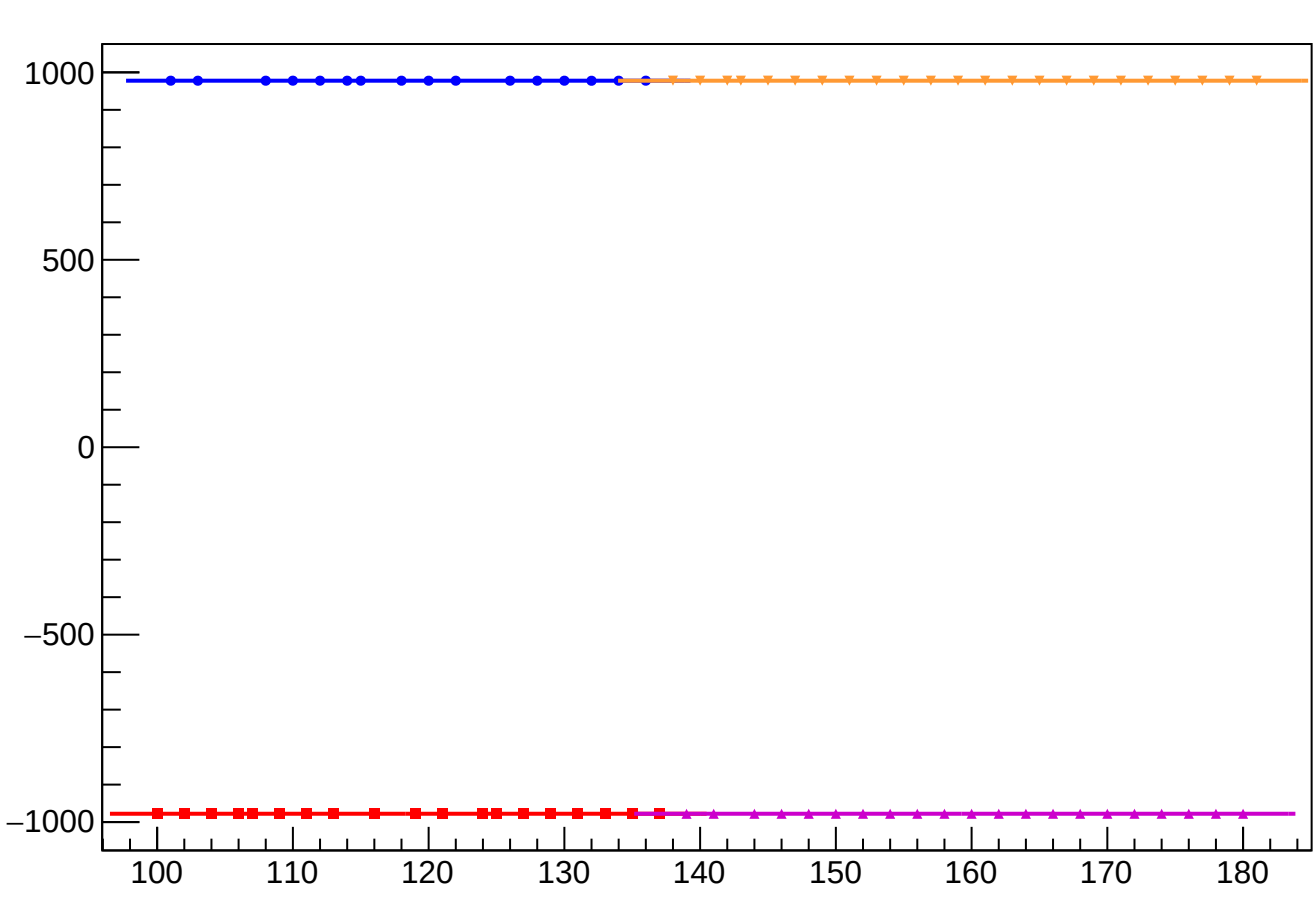
In: -316.711+/-0.000 $\chi^2$/NDF:1219763064184043

Right Out: -762.618+/-0.000 $\chi^2$/NDF: 5313433853263039584129784374886 4.0/18

Out: 326.846+/-0.000 $\chi^2$/NDF:126778559681963 6

Left In: -762.518+/-0.000 $\chi^2$/NDF:6345323869293693007131207270 40.0/20

All: 13.474+/-0.000 $\chi^2$/NDF: 3026217041685




Right In: 977.749+/-0.000 $\chi^2$/NDF: 19595783310723160744482245181440/15

Left Out: 977.737+/-0.000 $\chi^2$/NDF:1176469589364250197354432430080.0/22

Right Out: -977.747+/-0.000 $\chi^2$/NDF: 178222687781691472632796623672.0/18

Left In: -977.735+/-0.000 $\chi^2$/NDF:109431275060768157014786729574 4.0/20

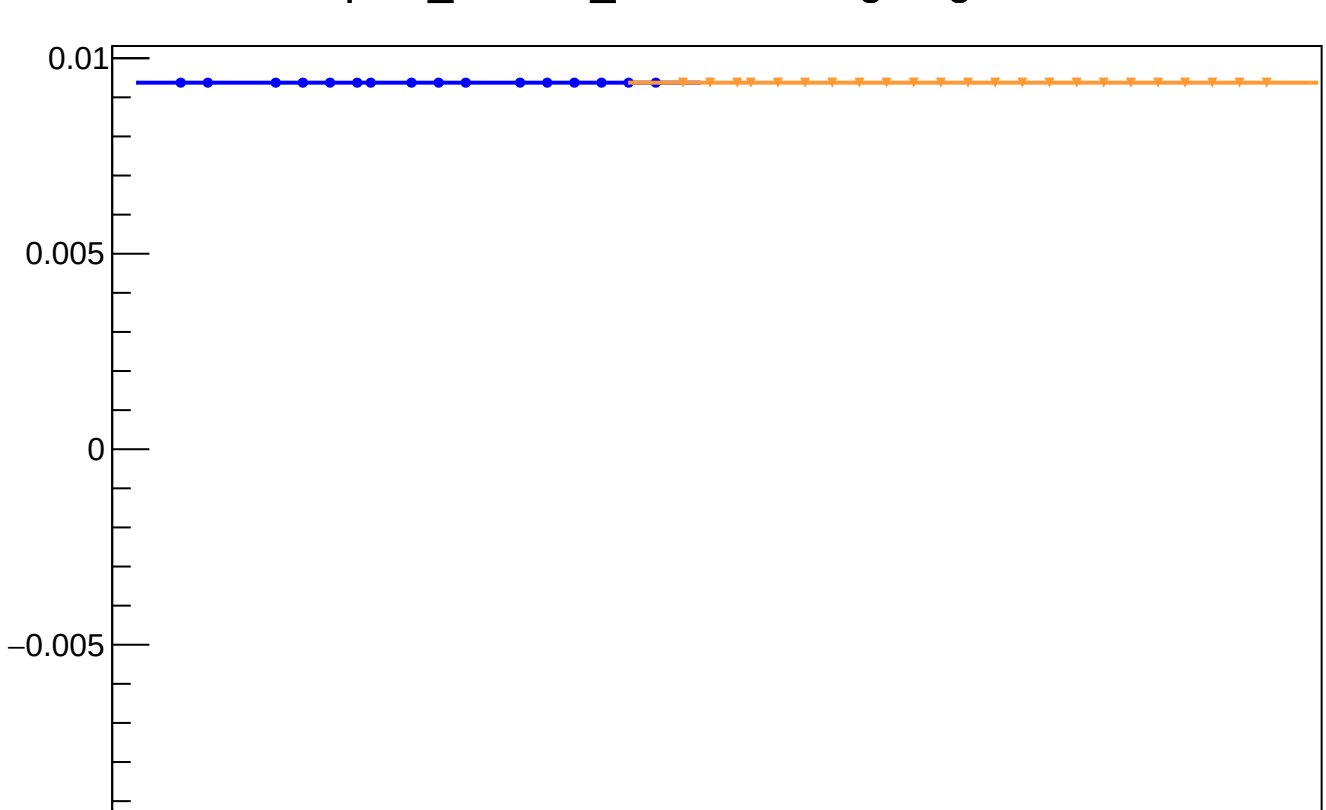
Left: 30.110+/-0.000 $\chi^2$/NDF: 3535637431141820

Right: -14.301+/-0.000 $\chi^2$/NDF: 143750377983115

In: -406.132+/-0.000 $\chi^2$/NDF:2005262725047534

Out: 419.132+/-0.000 $\chi^2$/NDF:2084192536087055

All: 17.280+/-0.000 $\chi^2$/NDF: 497525062022




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/22

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/20

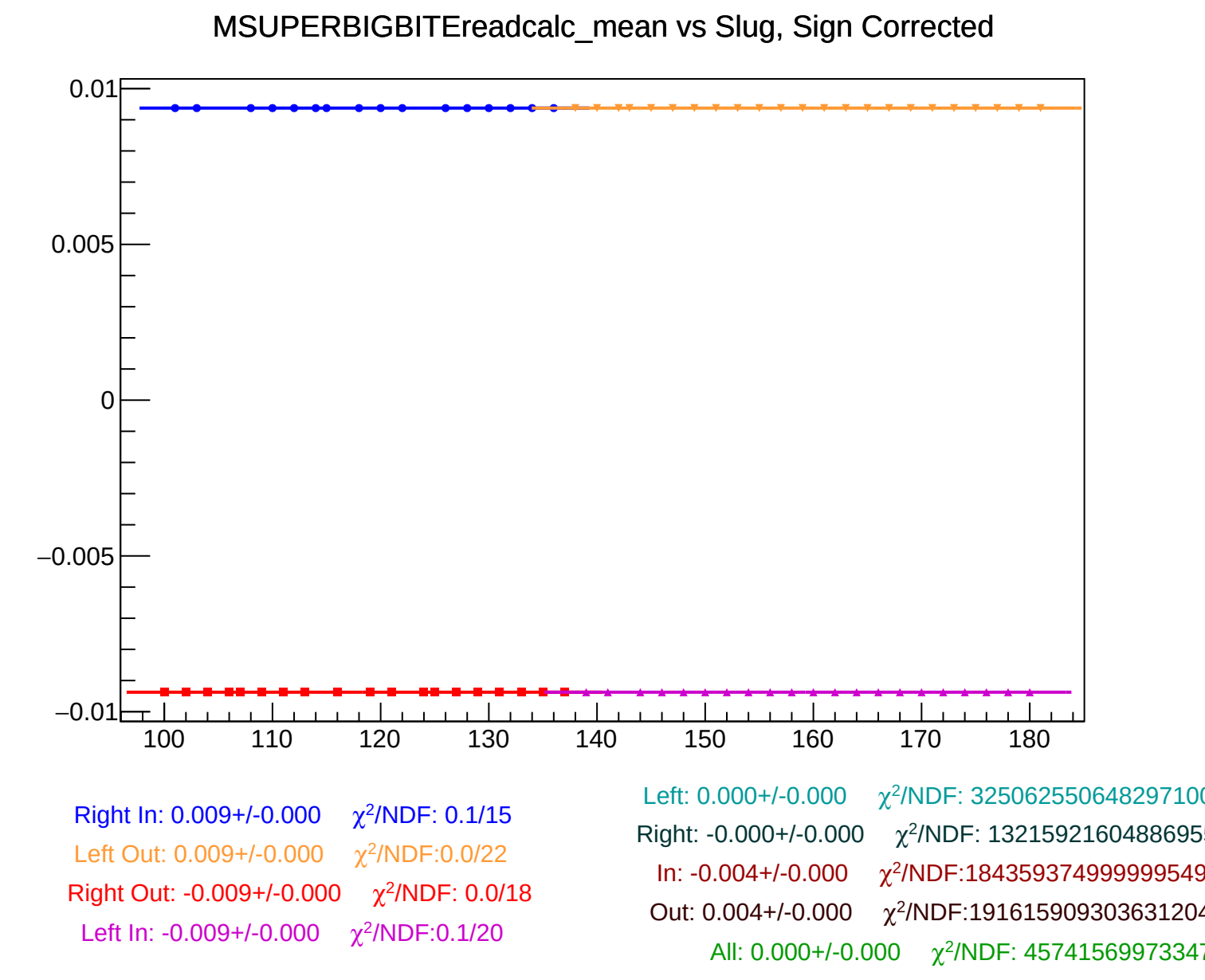
Left: 0.000+/-0.000 $\chi^2$/NDF: 325062550648297100

Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

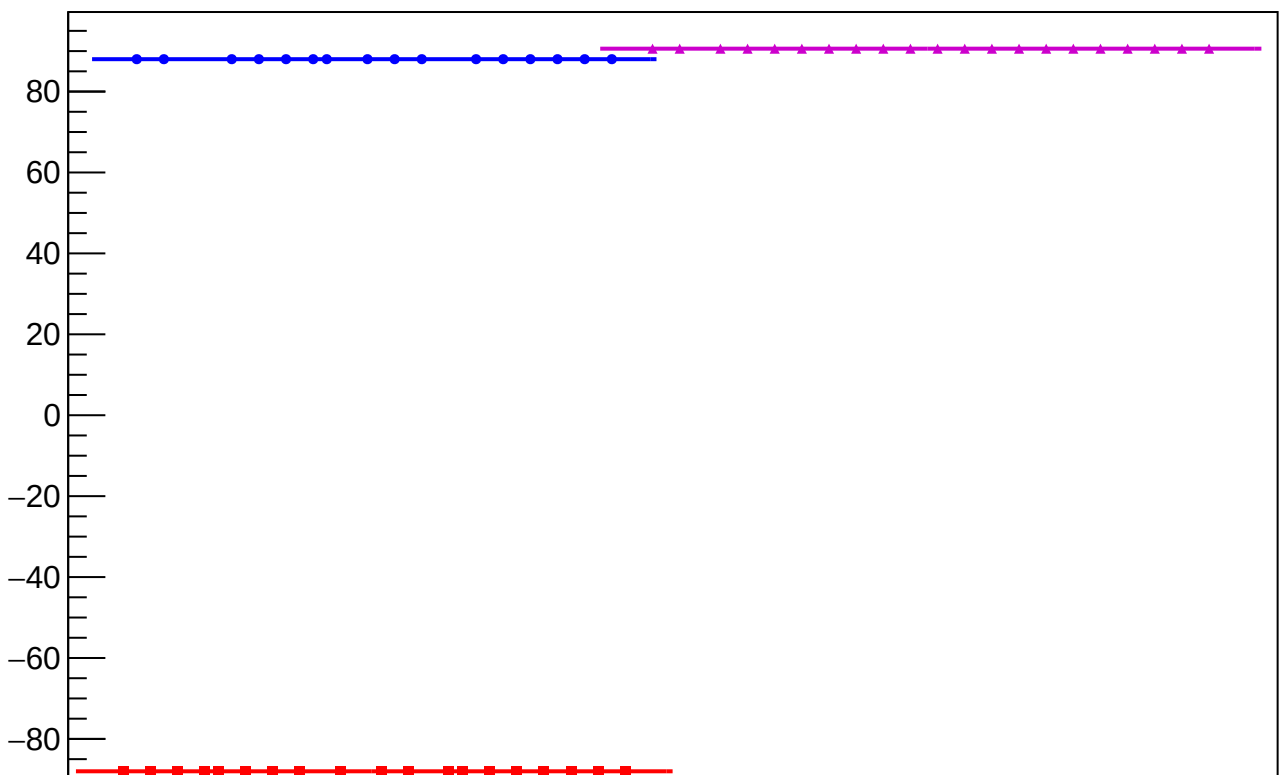
In: -0.004+/-0.000 $\chi^2$/NDF:184359374999999549

Out: 0.004+/-0.000 $\chi^2$/NDF:191615909303631204

All: 0.000+/-0.000 $\chi^2$/NDF: 45741569973347


MSUPERBIGBITEreadcalc_mean vs Slug, Sign Corrected
0.01
0.005
0
−0.005
−0.01
100
110
120
130
140
150
160
170
180
Right In: 0.009+/-0.000 χ²/NDF: 0.1/15
Left Out: 0.009+/-0.000 χ²/NDF:0.0/22
Right Out: -0.009+/-0.000 χ²/NDF: 0.0/18
Left In: -0.009+/-0.000 χ²/NDF:0.1/20
Left: 0.000+/-0.000 χ²/NDF: 32506255064829710
Right: -0.000+/-0.000 χ²/NDF: 1321592160488695
In: -0.004+/-0.000 χ²/NDF:184359374999999549
Out: 0.004+/-0.000 χ²/NDF:191615909303631204
All: 0.000+/-0.000 χ²/NDF: 45741569973347

# VWienAngle_mean vs Slug, Sign Corrected




Right In: 88.001+/-0.000 $\chi^2$/NDF: 1500072.7/15

Left Out: -90.599+/-0.000 $\chi^2$/NDF:4434382.8/22

Right Out: -88.003+/-0.000 $\chi^2$/NDF: 732270589413796643601760911360/18

Left In: 90.599+/-0.000 $\chi^2$/NDF:6277161.9/20

Left: -2.790+/-0.000 $\chi^2$/NDF: 30358061777346205

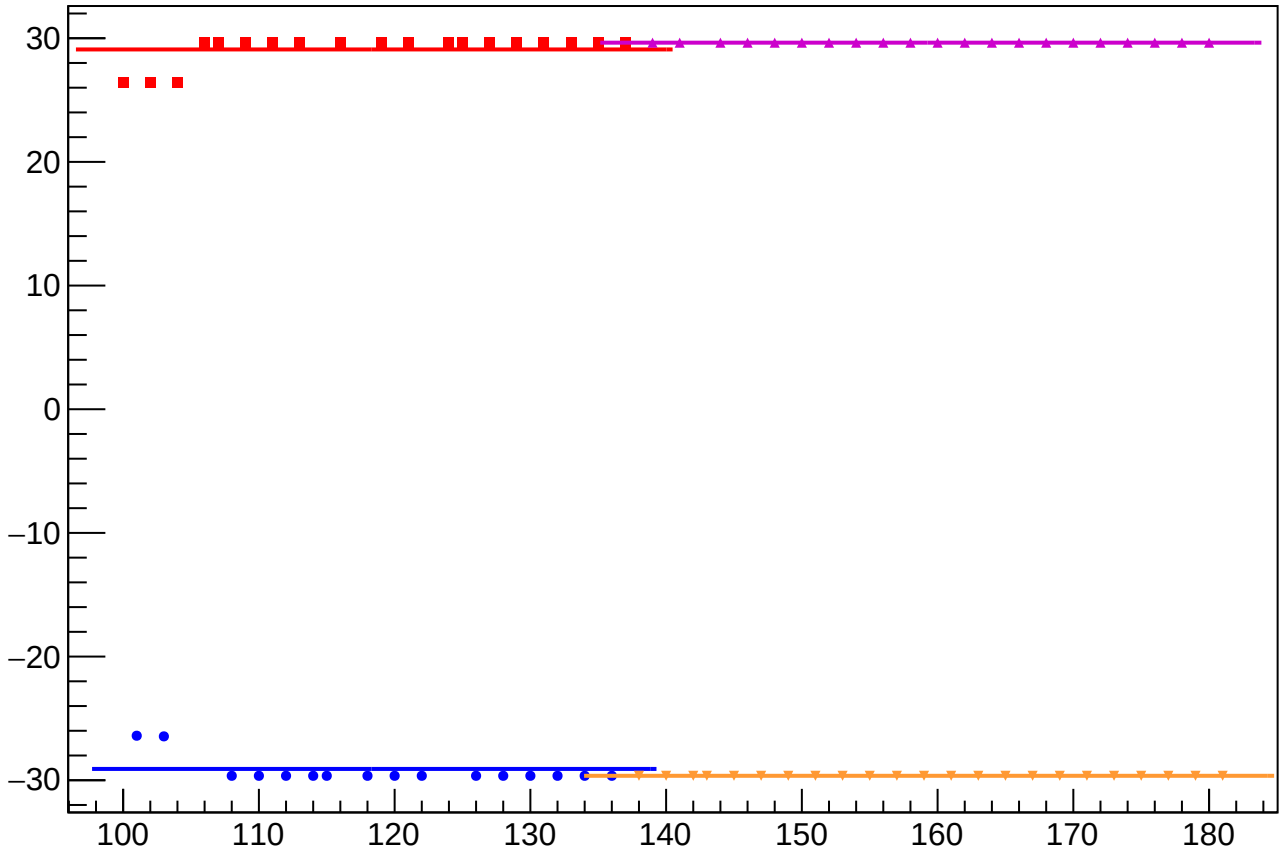
Right: -1.289+/-0.000 $\chi^2$/NDF: 1164502782894649

In: 89.840+/-0.000 $\chi^2$/NDF:354111036202093608

Out: -89.858+/-0.000 $\chi^2$/NDF:3672910027493221

All: -2.356+/-0.000 $\chi^2$/NDF: 4200550019459

# HWienAngle_mean vs Slug, Sign Corrected




Right In: -29.085+/-0.000 $\chi^2$/NDF: 10943678852516098773550364119531520.0/15

Left Out: -29.641+/-0.000 $\chi^2$/NDF:223859.8/22

Right Out: 29.093+/-0.000 $\chi^2$/NDF: 1125238156749692849797805899776000.0/18

Left In: 29.641+/-0.000 $\chi^2$/NDF:105732.6/20

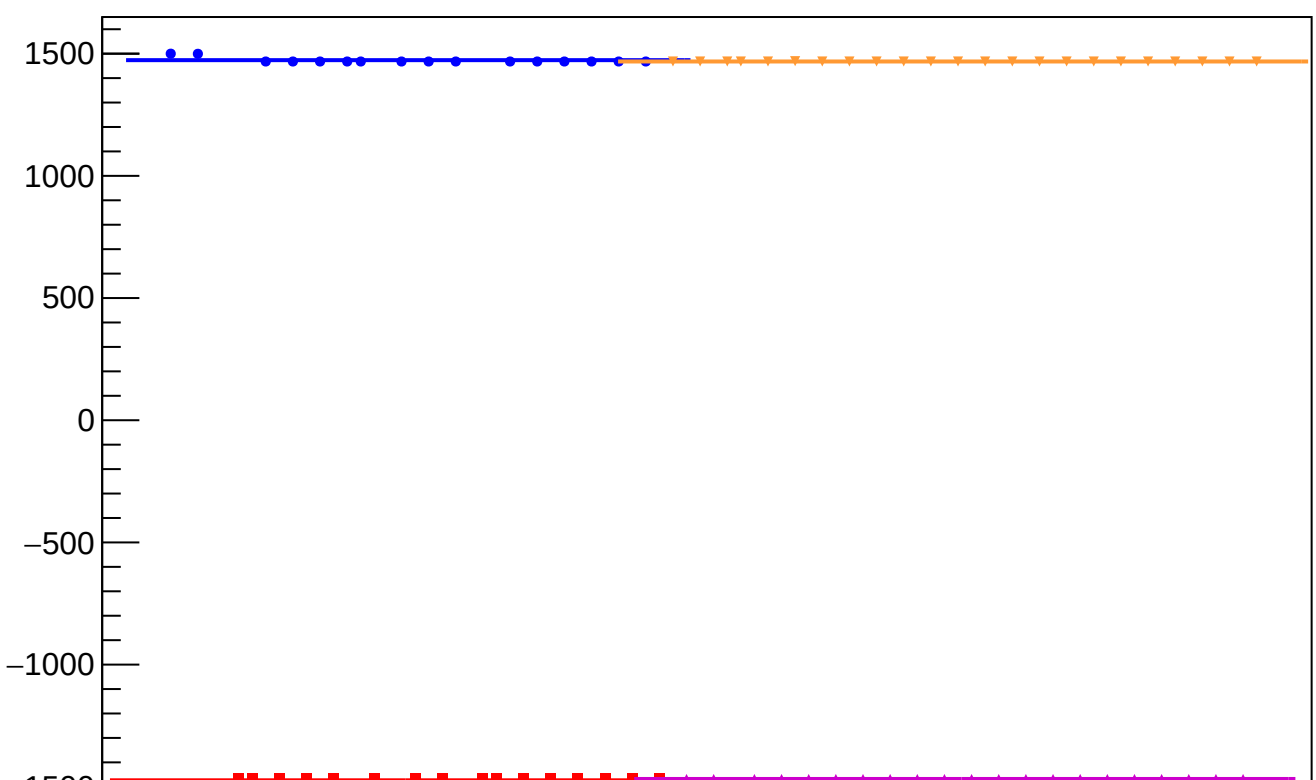
Left: -0.913+/-0.000 $\chi^2$/NDF: 32493866299184161

Right: 0.429+/-0.000 $\chi^2$/NDF: 12746007522578358

In: 12.475+/-0.000 $\chi^2$/NDF:180962155665330881

Out: -12.863+/-0.000 $\chi^2$/NDF:1881318864085565

All: -0.525+/-0.000 $\chi^2$/NDF: 4525913585603




Right In: 1473.467+/-0.000 $\chi^2$/NDF: 10689419486070617687848579370477158 4.0/15

Left Out: 1468.054+/-0.000 $\chi^2$/NDF:139252587541856683857867790352384.0/22

Right Out: -1473.393+/-0.000 $\chi^2$/NDF: 109909499733401078761067843300622336.0/18

Left In: -1467.993+/-0.000 $\chi^2$/NDF:151616499403930515343237185536.0/20

Left: 45.237+/-0.000 $\chi^2$/NDF: 797058746557561 91

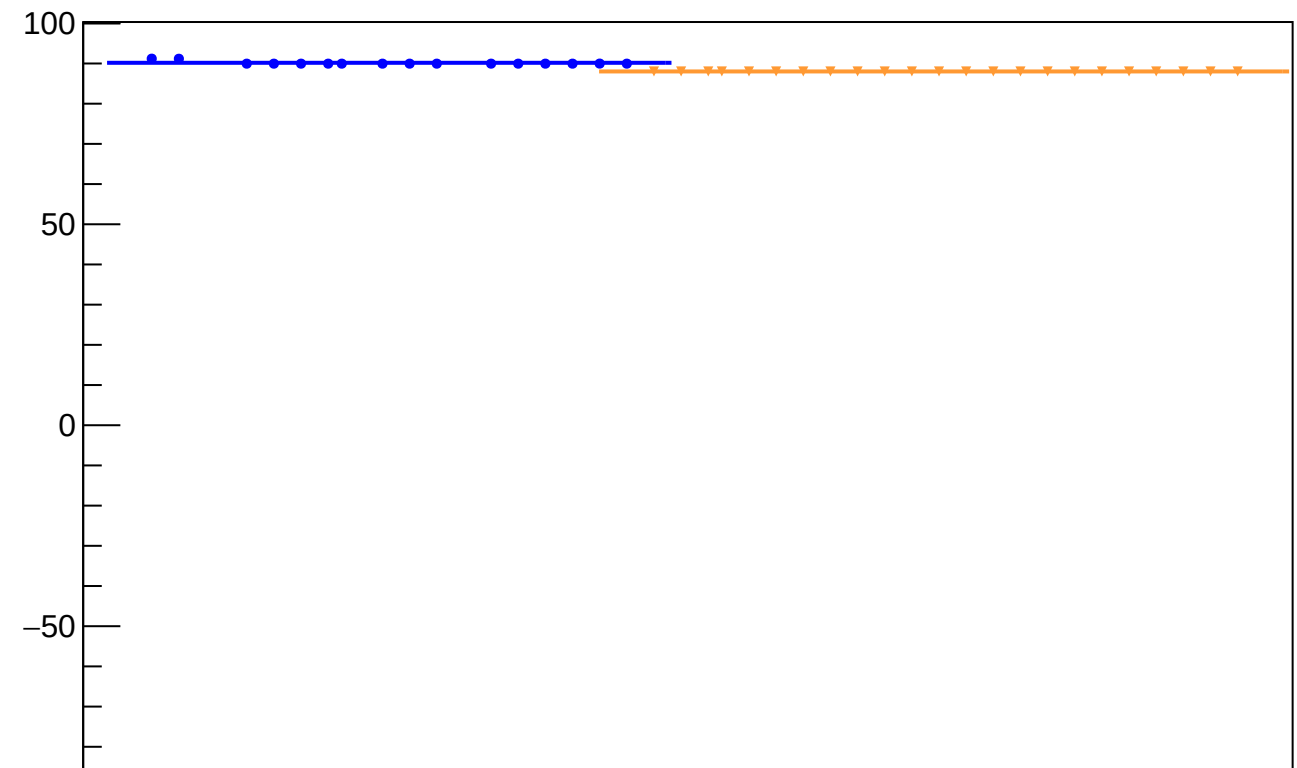
Right: -21.516+/-0.000 $\chi^2$/NDF: 3264697385914600

In: -608.182+/-0.000 $\chi^2$/NDF:4537315813956845

Out: 627.798+/-0.000 $\chi^2$/NDF:4715862190468018

All: 25.952+/-0.000 $\chi^2$/NDF: 1124005040692

# Phi_FG_mean vs Slug, Sign Corrected




Right In: 90.173+/-0.000 $\chi^2$/NDF: 160010492173064584437589858058240.0/15

Left Out: 88.021+/-0.000 $\chi^2$/NDF:4328157.9/22

Right Out: -90.169+/-0.000 $\chi^2$/NDF: 164815404456112641329707295440896.0/18

Left In: -88.021+/-0.000 $\chi^2$/NDF:6192343.5/20

Left: 2.711+/-0.000 $\chi^2$/NDF: 286545803743852226

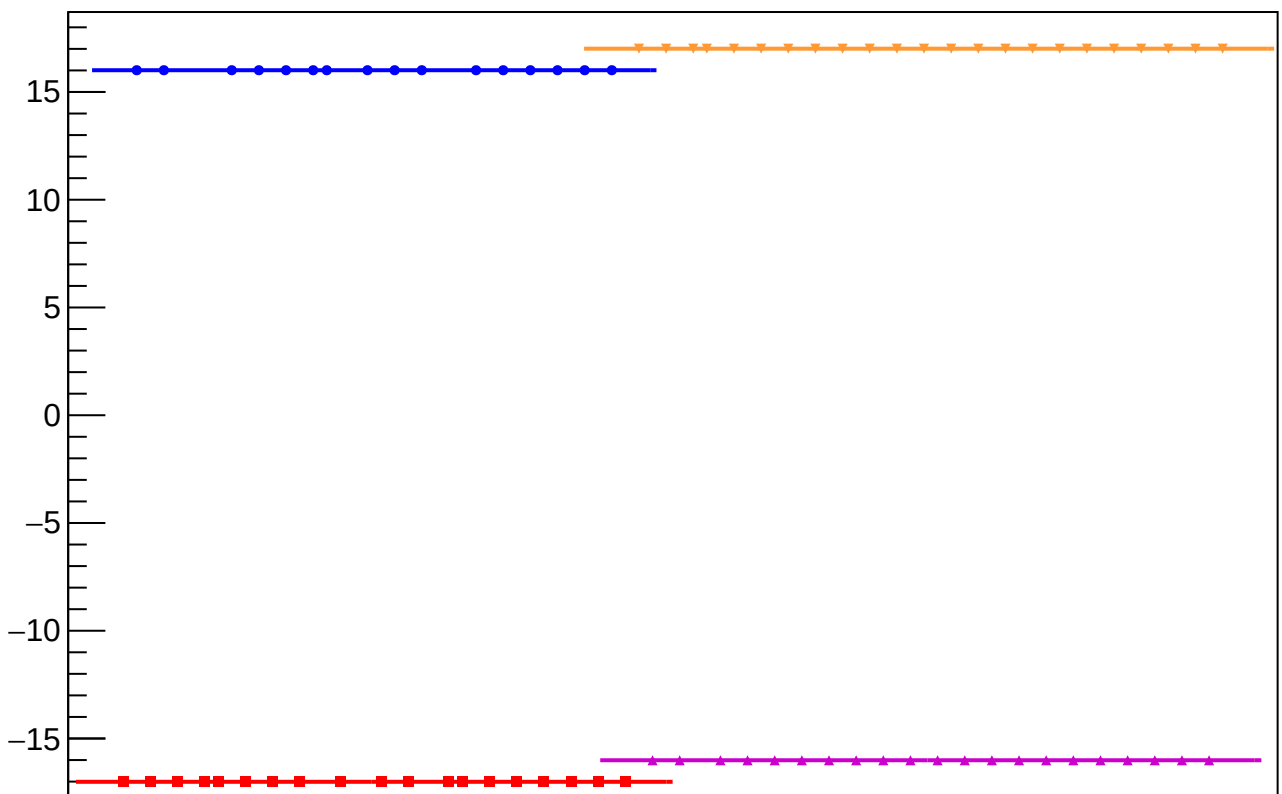
Right: -1.317+/-0.000 $\chi^2$/NDF: 1222640469973926

In: -35.933+/-0.000 $\chi^2$/NDF:16651385631009773

Out: 37.119+/-0.000 $\chi^2$/NDF:1730605529857397

All: 1.547+/-0.000 $\chi^2$/NDF: 40898334054052

# IGL1I00DI24_24M_mean vs Slug, Sign Corrected




Right In: 16.009+/-0.000 $\chi^2$/NDF: 44239.3/15

Left Out: 17.009+/-0.000 $\chi^2$/NDF:2657171661848735484215296O.0/22

Right Out: -17.009+/-0.000 $\chi^2$/NDF: 13878987313036743260766208.0/18

Left In: -16.009+/-0.000 $\chi^2$/NDF:12434309306402124228198 4.0/20

Left: 0.967+/-0.000 $\chi^2$/NDF: 933306230256264499

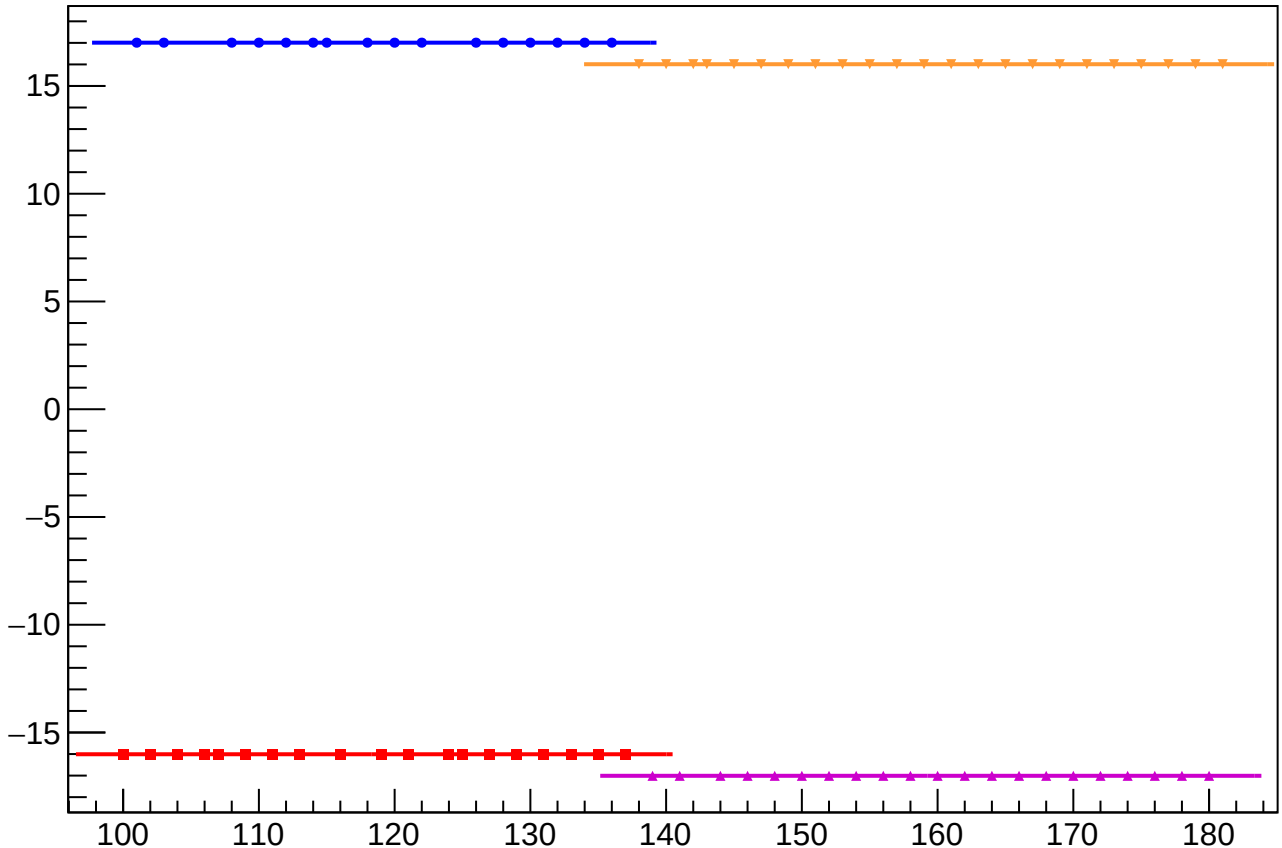
Right: -0.393+/-0.000 $\chi^2$/NDF: 38020254772992161

In: -6.513+/-0.000 $\chi^2$/NDF:506246213111462406

Out: 7.406+/-0.000 $\chi^2$/NDF:575597705608209795

All: 0.574+/-0.000 $\chi^2$/NDF: 13153443456069

# IGL1I00OD16_16_mean vs Slug, Sign Corrected




Right In: 17.009+/-0.000 $\chi^2$/NDF: 126634.3/15

Left Out: 16.009+/-0.000 $\chi^2$/NDF:120575.8/22

Right Out: -16.009+/-0.000 $\chi^2$/NDF: 39518.8/18

Left In: -17.009+/-0.000 $\chi^2$/NDF:1106706984481048986910 72.0/20

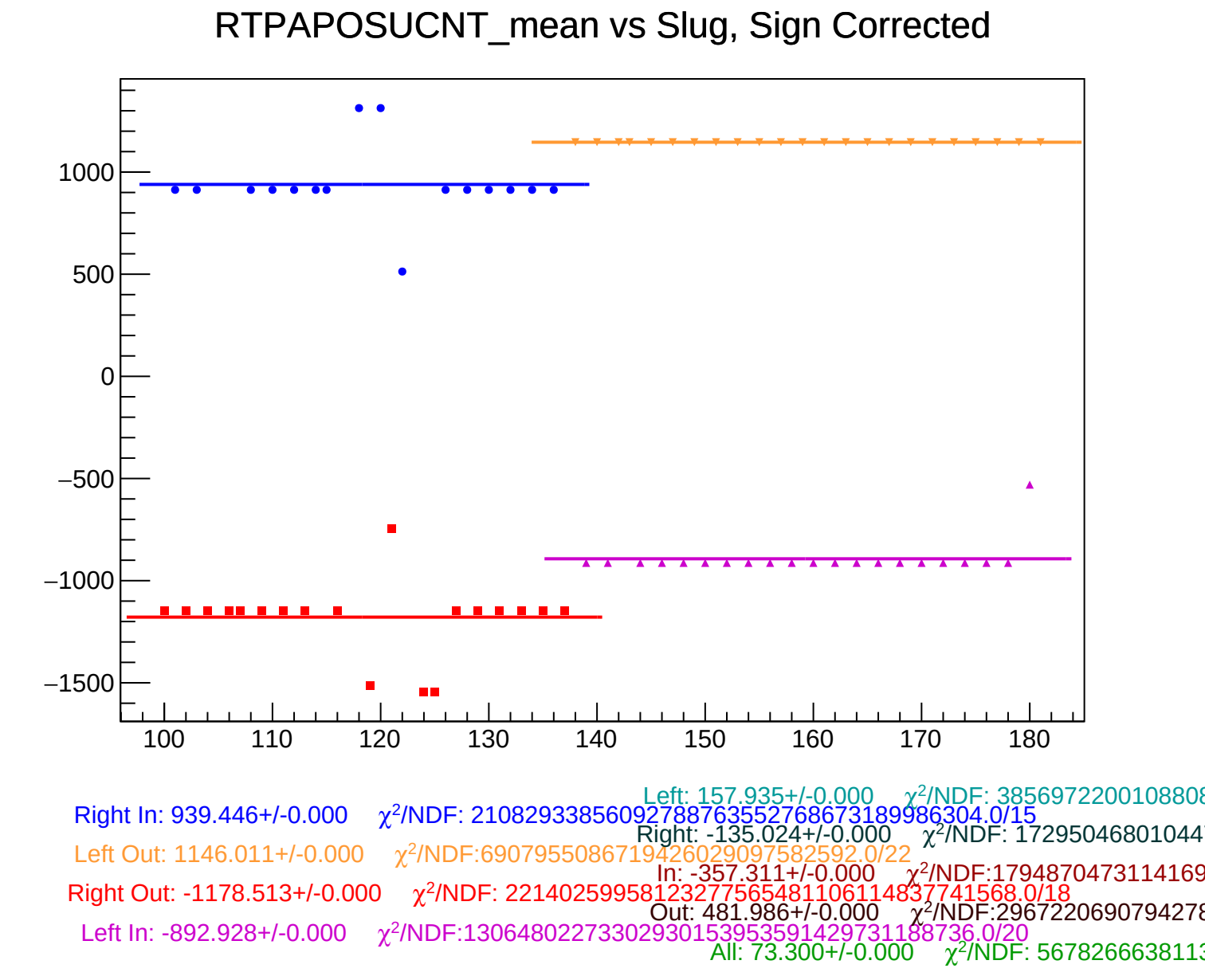
Left: 0.109+/-0.000 $\chi^2$/NDF: 9880425125248418 51

Right: -0.086+/-0.000 $\chi^2$/NDF: 3990694435474134 5

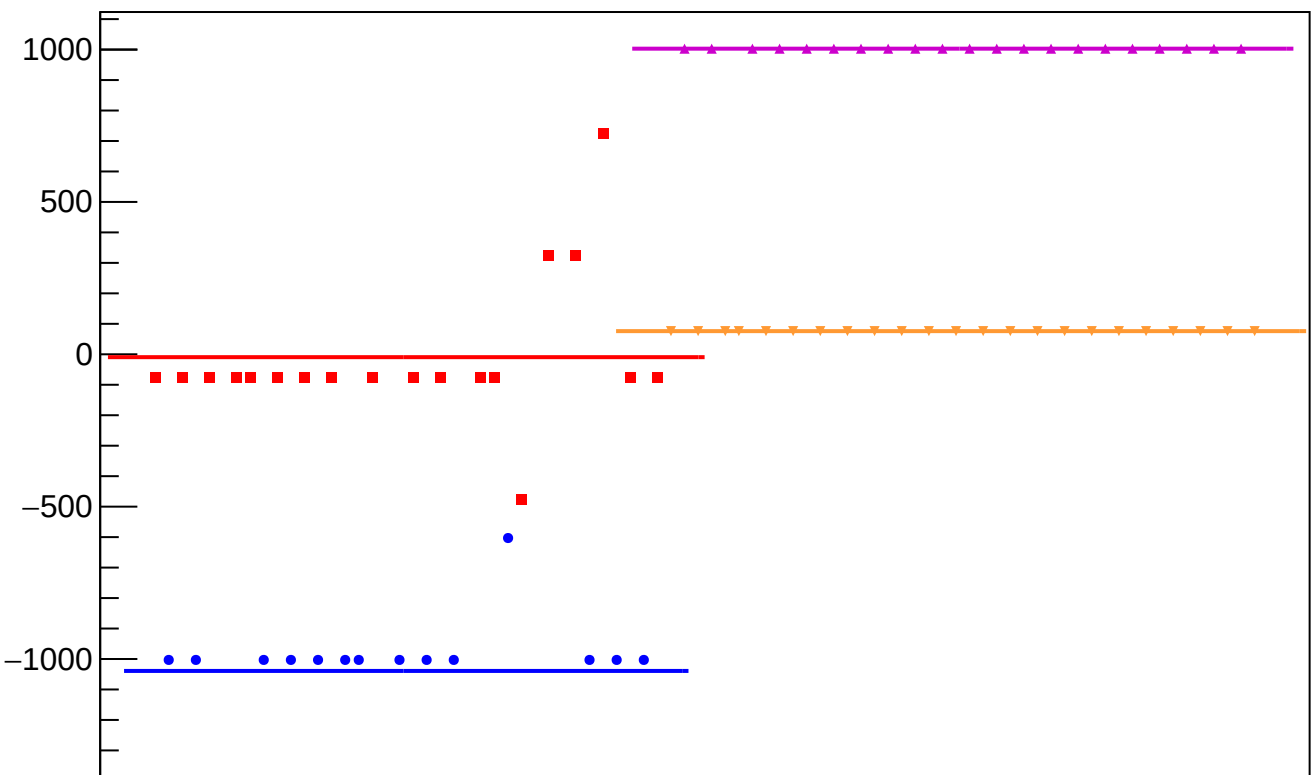
In: -7.213+/-0.000 $\chi^2$/NDF:582567165398580752

Out: 6.807+/-0.000 $\chi^2$/NDF:554500242251130699

All: 0.053+/-0.000 $\chi^2$/NDF: 13871516791209


RTPAPOSUCNT_mean vs Slug, Sign Corrected
1000
500
0
−500
−1000
−1500
100
110
120
130
140
150
160
170
180
Right In: 939.446+/-0.000 χ²/NDF: 21082933856092788763552768673189986304.0/15
Left Out: 1146.011+/-0.000 χ²/NDF:690795508671942602909758259 2.0/22
Right Out: -1178.513+/-0.000 χ²/NDF: 22140259958123277565481106114837741568.0/18
Left In: -892.928+/-0.000 χ²/NDF:13064802273302930153953591429731188736.0/20
Left: 157.935+/-0.000 χ²/NDF: 3856972200108808
Right: -135.024+/-0.000 χ²/NDF: 17295046801044
In: -357.311+/-0.000 χ²/NDF:1794870473114169
Out: 481.986+/-0.000 χ²/NDF:2967220690794278
All: 73.300+/-0.000 χ²/NDF: 5678266638113

# RTPAPOSVCNT_mean vs Slug, Sign Corrected




Left: 525.228+/-0.000 $\chi^2$/NDF: 7945181760964372

Right In: -1039.157+/-0.000 $\chi^2$/NDF: 228703773085071640027081015550845911040.0/15

Right: -516.762+/-0.000 $\chi^2$/NDF: 467529284129883

Left Out: 76.011+/-0.000 $\chi^2$/NDF:1041983421628810116600954880 0.0/22

In: 406.055+/-0.000 $\chi^2$/NDF:2209808100852306

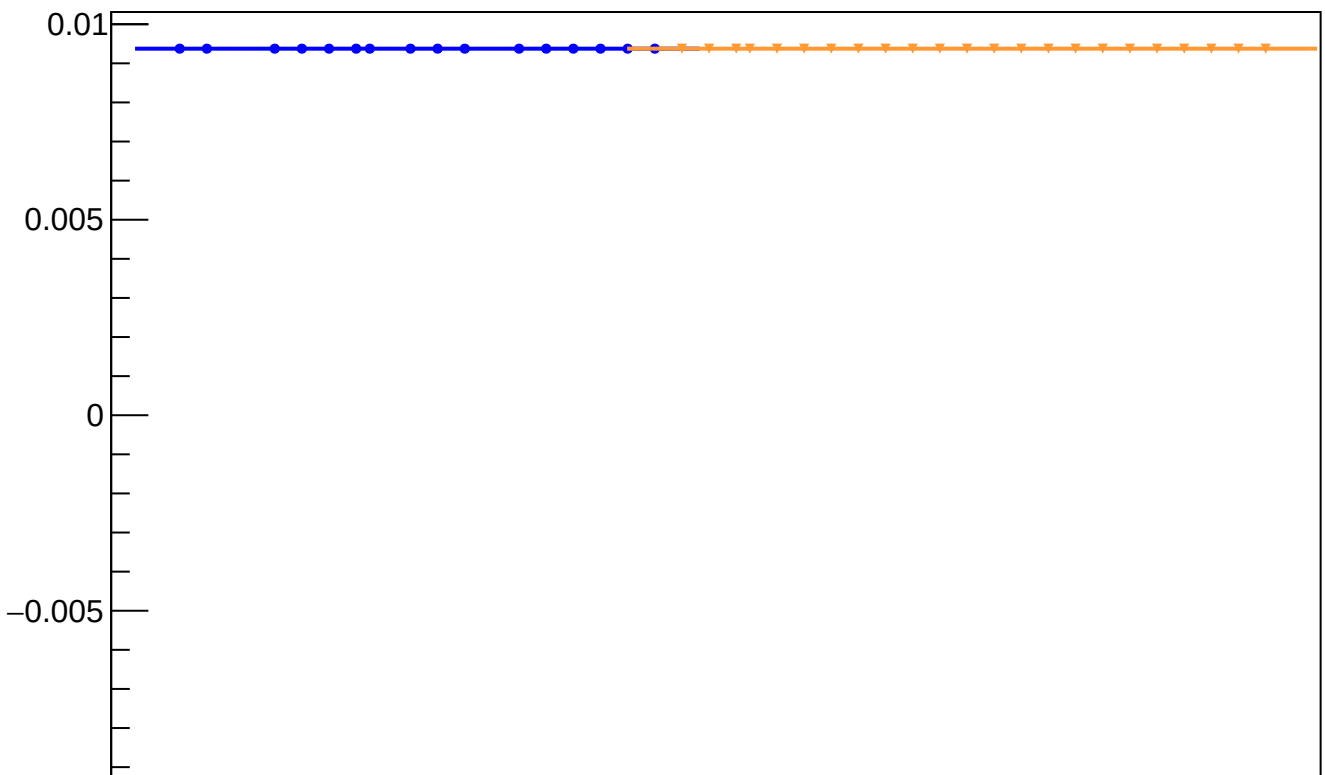
Right Out: -9.430+/-0.000 $\chi^2$/NDF: 460573947349287664748937365260515409 92.0/18

Out: 51.604+/-0.000 $\chi^2$/NDF:50036276803266598

Left In: 1002.990+/-0.000 $\chi^2$/NDF:26848424932820696253710991 36.0/20

All: 224.200+/-0.000 $\chi^2$/NDF: 242324709462

# RTPPITA1CNT_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/22

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 325062550648297100

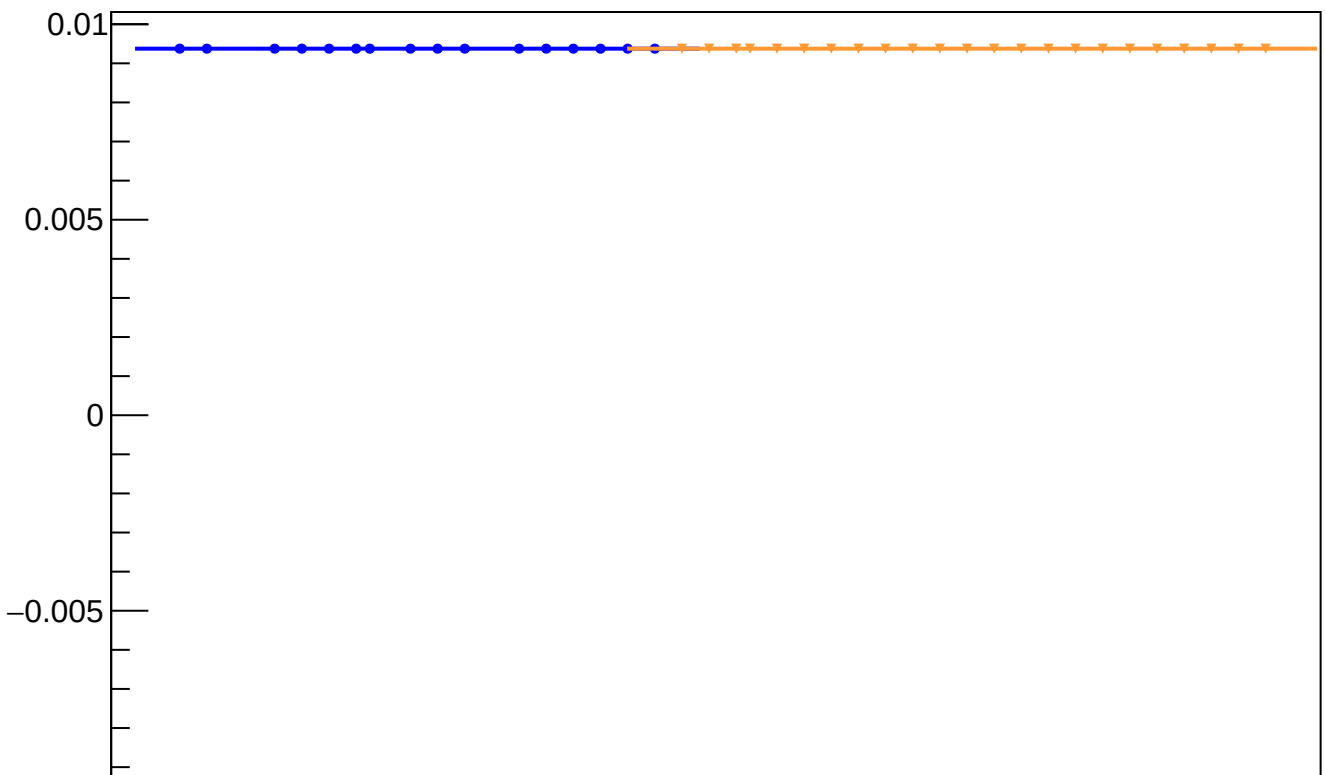
Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: -0.004+/-0.000 $\chi^2$/NDF:184359374999999549

Out: 0.004+/-0.000 $\chi^2$/NDF:191615909303631204

All: 0.000+/-0.000 $\chi^2$/NDF: 45741569973347

# RTPPITA2CNT_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/22

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/20

Left: 0.000+/-0.000 $\chi^2$/NDF: 325062550648297100

Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: -0.004+/-0.000 $\chi^2$/NDF:184359374999999549

Out: 0.004+/-0.000 $\chi^2$/NDF:191615909303631204

All: 0.000+/-0.000 $\chi^2$/NDF: 45741569973347