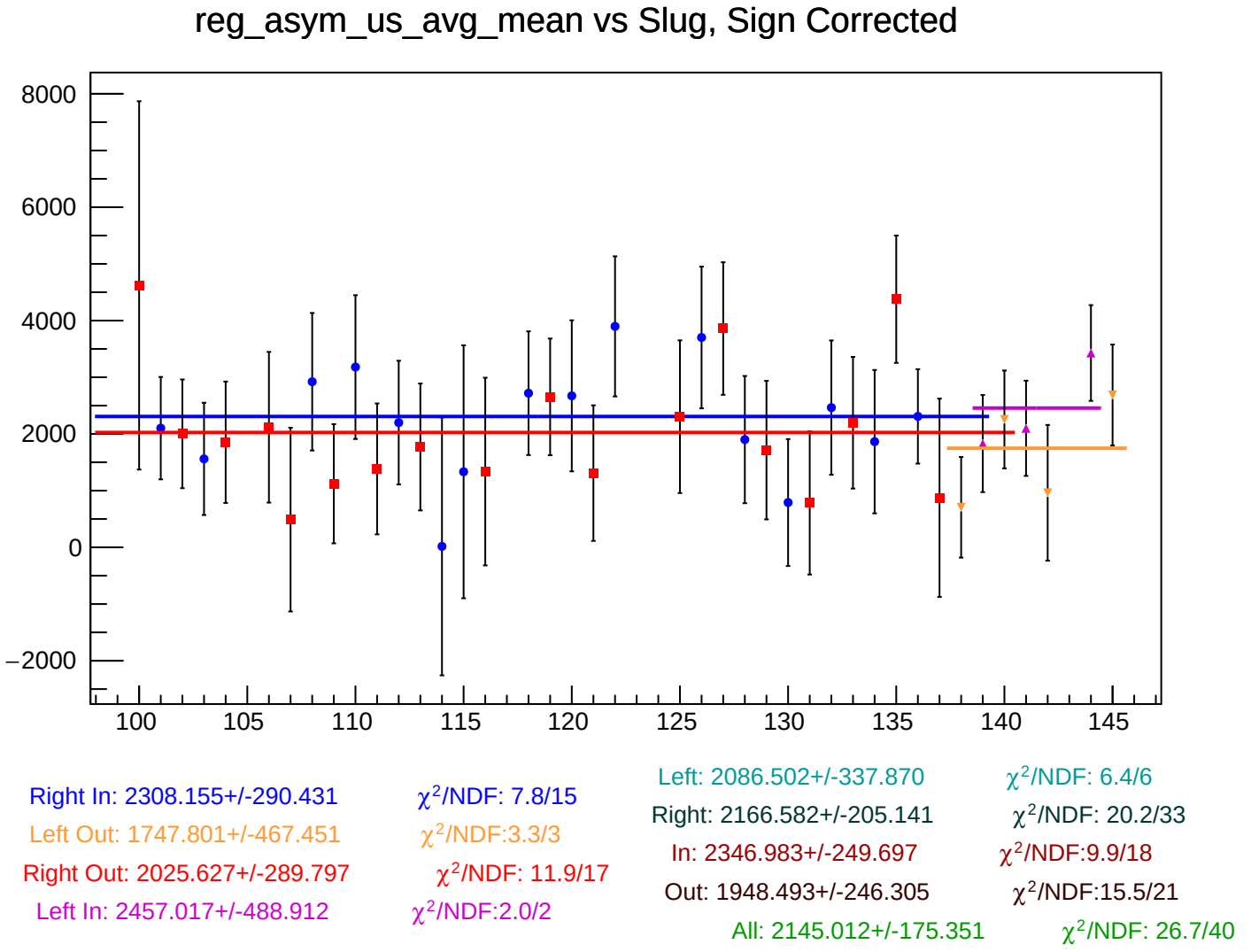
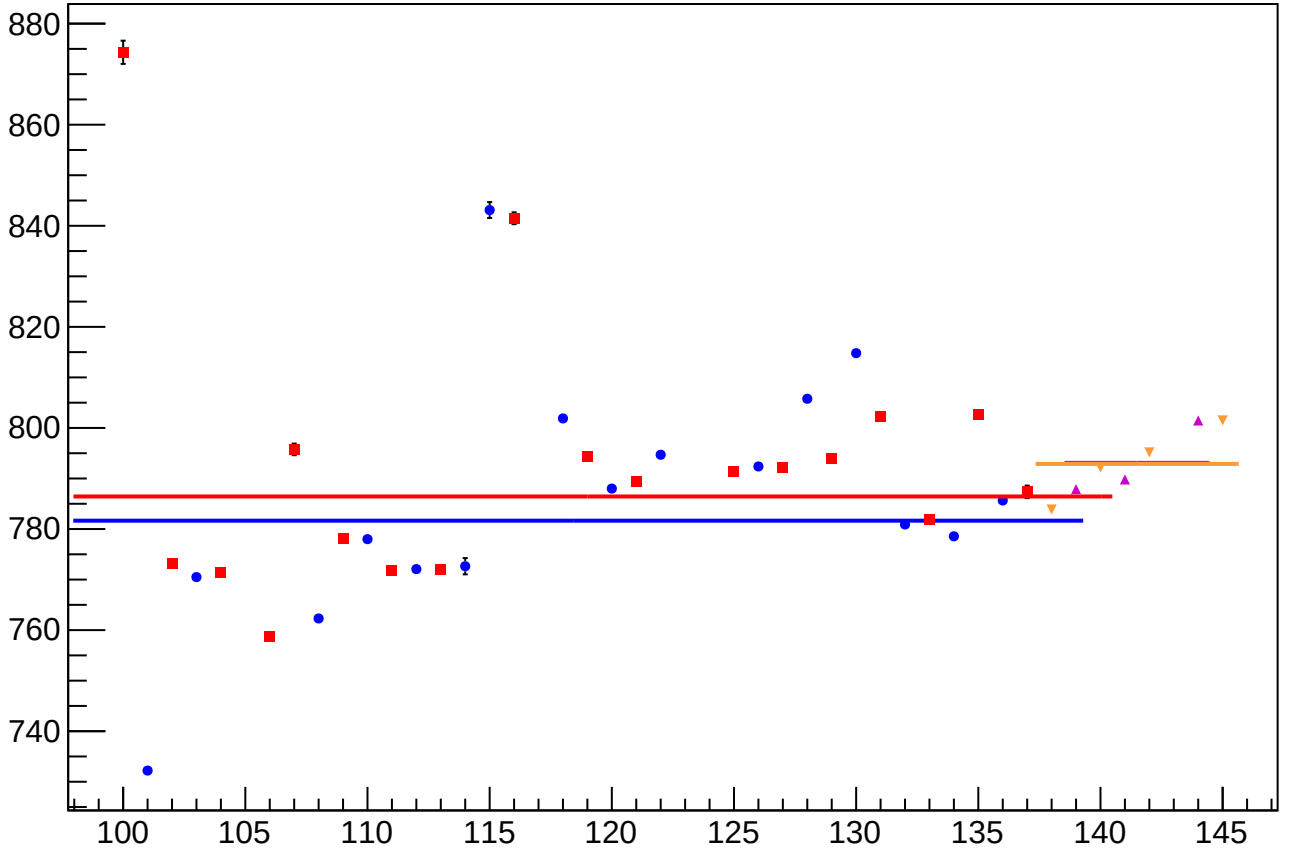

reg_asym_us_avg_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
100
105
110
115
120
125
130
135
140
145
Right In: 2308.155+/-290.431
χ²/NDF: 7.8/15
Left Out: 1747.801+/-467.451
χ²/NDF:3.3/3
Right Out: 2025.627+/-289.797
χ²/NDF: 11.9/17
Left In: 2457.017+/-488.912
χ²/NDF:2.0/2
Left: 2086.502+/-337.870
χ²/NDF: 6.4/6
Right: 2166.582+/-205.141
χ²/NDF: 20.2/33
In: 2346.983+/-249.697
χ²/NDF:9.9/18
Out: 1948.493+/-246.305
χ²/NDF:15.5/21
All: 2145.012+/-175.351
χ²/NDF: 26.7/40

# reg_asym_us_avg_rms vs Slug, Sign Corrected




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

Left Out: 792.890+/-0.331 $\chi^2$/NDF:403.0/3

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

Left In: 793.095+/-0.346 $\chi^2$/NDF:301.6/2

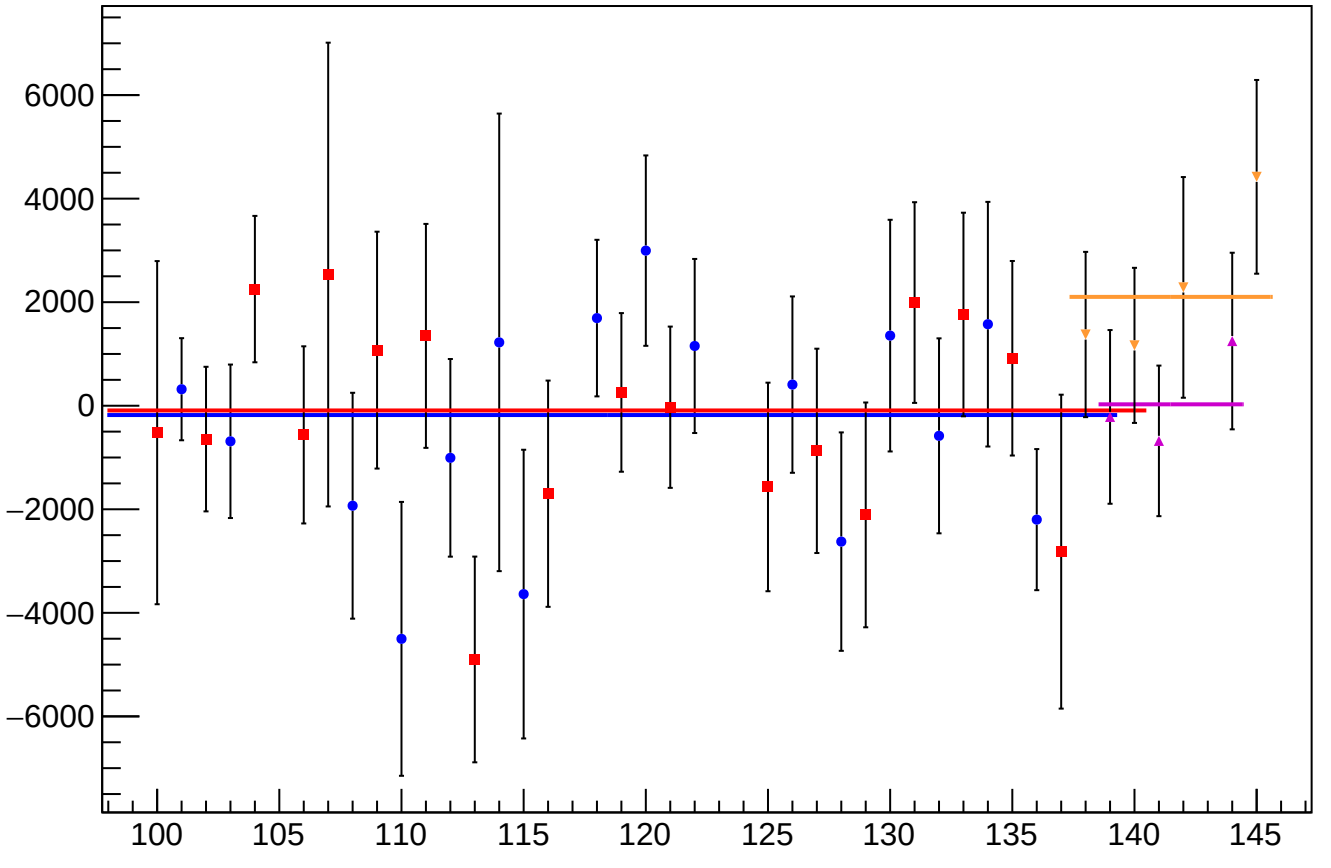
Left: 792.988+/-0.239 $\chi^2$/NDF: 704.8/6

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

In: 784.638+/-0.177 $\chi^2$/NDF:13430.2/18

Out: 788.233+/-0.174 $\chi^2$/NDF:7879.4/21

All: 786.460+/-0.124 $\chi^2$/NDF: 21519.7/40




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

Left Out: 2102.274+/-862.568 $\chi^2$/NDF:2.1/3

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

Left In: 27.124+/-923.692 $\chi^2$/NDF:0.8/2

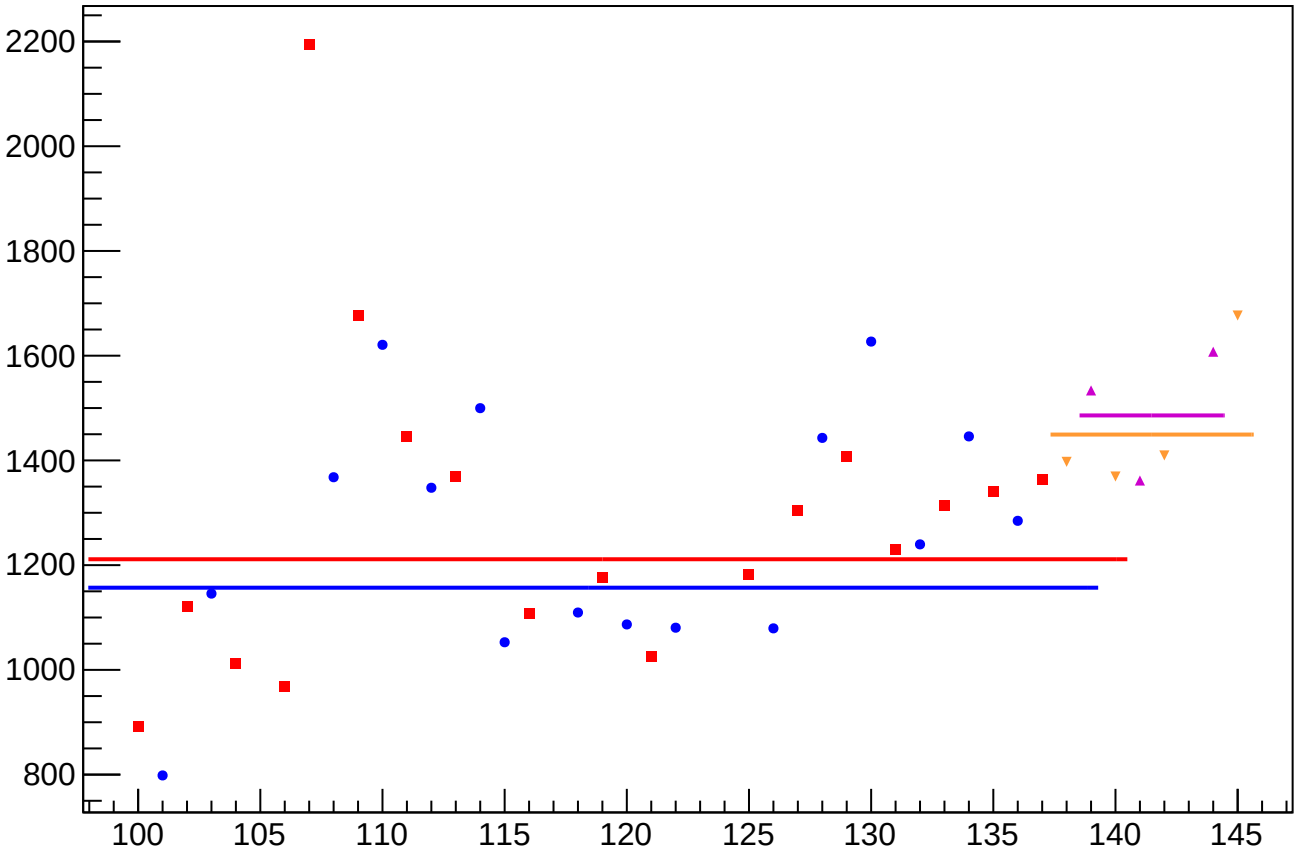
Left: 1135.625+/-630.430 $\chi^2$/NDF: 5.6/6

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

In: -141.526+/-397.802 $\chi^2$/NDF:16.2/18

Out: 385.897+/-402.311 $\chi^2$/NDF:22.4/21

All: 119.213+/-282.869 $\chi^2$/NDF: 39.5/40




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

Left Out: 1449.385+/-0.610 $\chi^2$/NDF:38082.8/3

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

Left In: 1485.919+/-0.653 $\chi^2$/NDF:26411.2/2

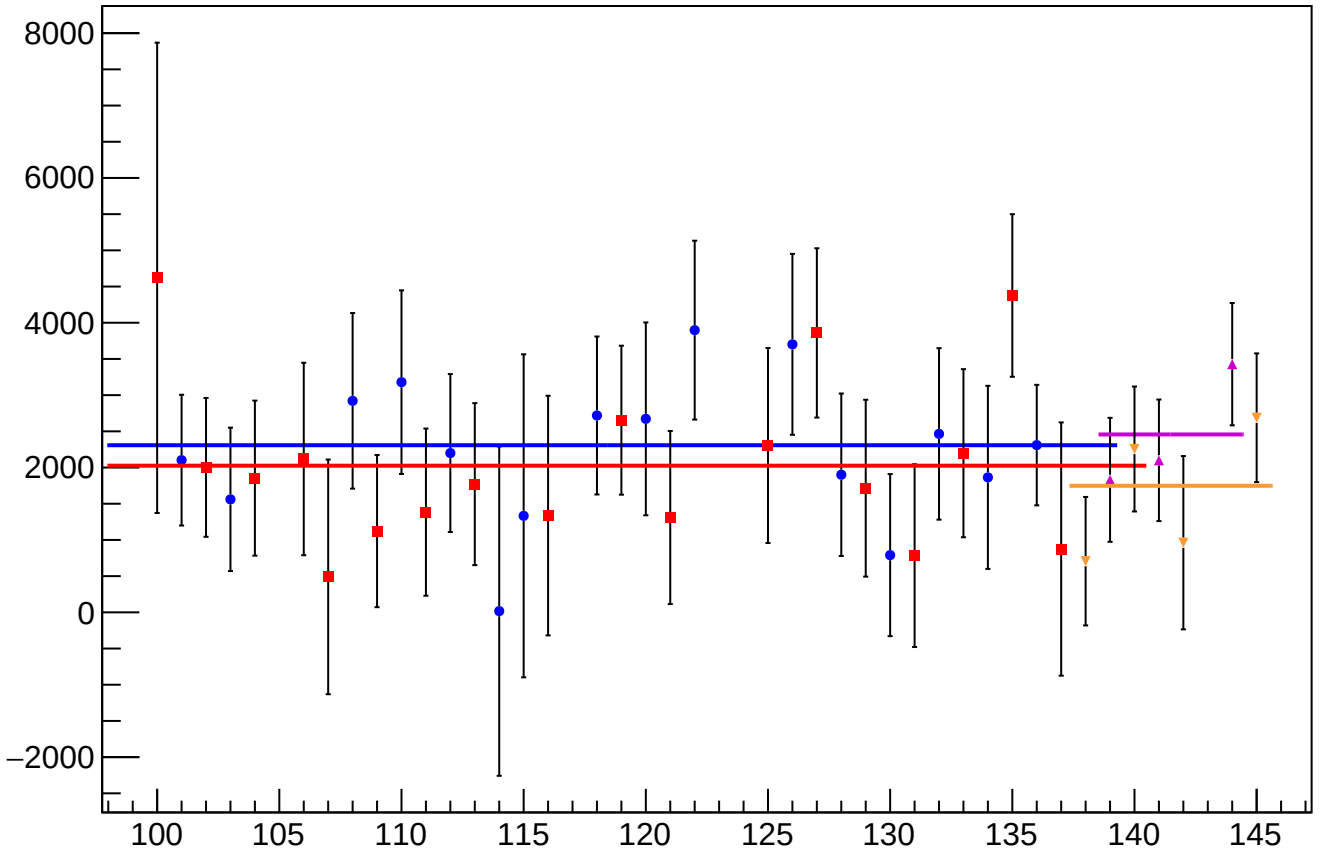
Left: 1466.403+/-0.446 $\chi^2$/NDF: 66165.3/6

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

In: 1217.963+/-0.281 $\chi^2$/NDF:802162.5/18

Out: 1263.065+/-0.284 $\chi^2$/NDF:555059.6/21

All: 1240.260+/-0.200 $\chi^2$/NDF: 1369931.6/40




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

Left Out: 1747.801+/-467.451 $\chi^2$/NDF:3.3/3

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

Left In: 2457.017+/-488.912 $\chi^2$/NDF:2.0/2

Left: 2086.502+/-337.870 $\chi^2$/NDF: 6.4/6

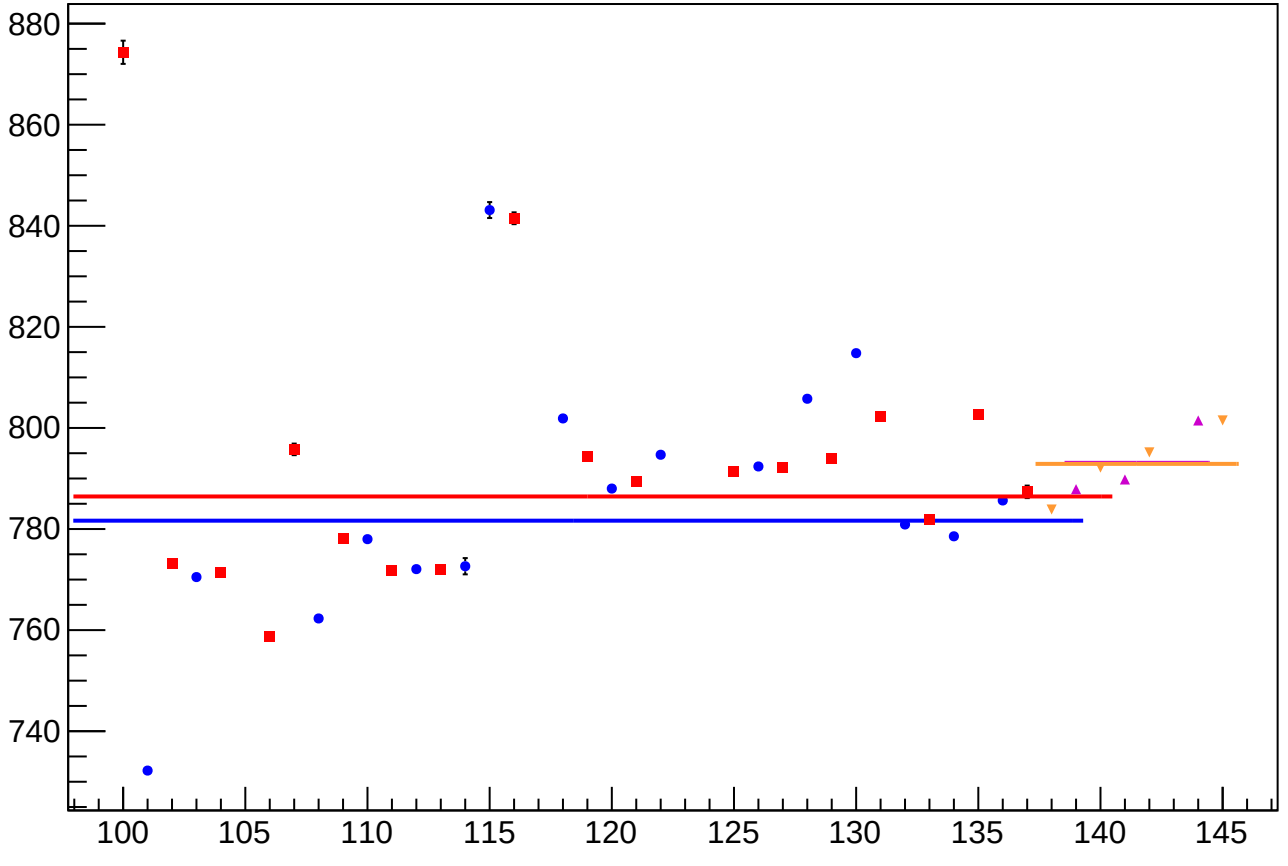
Right: 2166.582+/-205.141 $\chi^2$/NDF: 20.2/33

In: 2346.983+/-249.697 $\chi^2$/NDF:9.9/18

Out: 1948.493+/-246.305 $\chi^2$/NDF:15.5/21

All: 2145.012+/-175.351 $\chi^2$/NDF: 26.7/40

# cor_asym_us_avg_rms vs Slug, Sign Corrected




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

Left Out: 792.890+/-0.331 $\chi^2$/NDF:403.0/3

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

Left In: 793.095+/-0.346 $\chi^2$/NDF:301.6/2

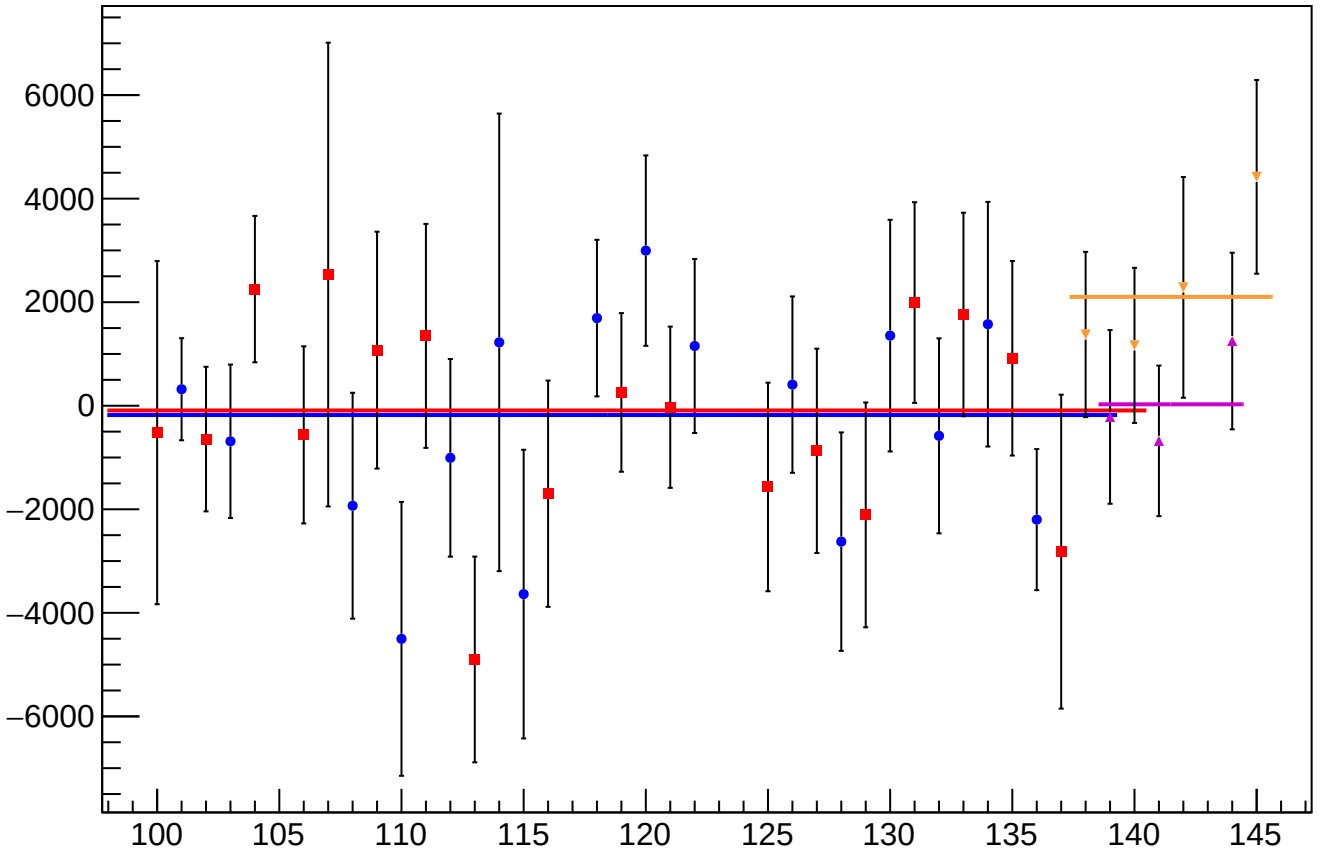
Left: 792.988+/-0.239 $\chi^2$/NDF: 704.8/6

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

In: 784.638+/-0.177 $\chi^2$/NDF:13430.2/18

Out: 788.233+/-0.174 $\chi^2$/NDF:7879.4/21

All: 786.460+/-0.124 $\chi^2$/NDF: 21519.7/40




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

Left Out: 2102.274+/-862.568 $\chi^2$/NDF:2.1/3

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

Left In: 27.124+/-923.692 $\chi^2$/NDF:0.8/2

Left: 1135.625+/-630.430 $\chi^2$/NDF: 5.6/6

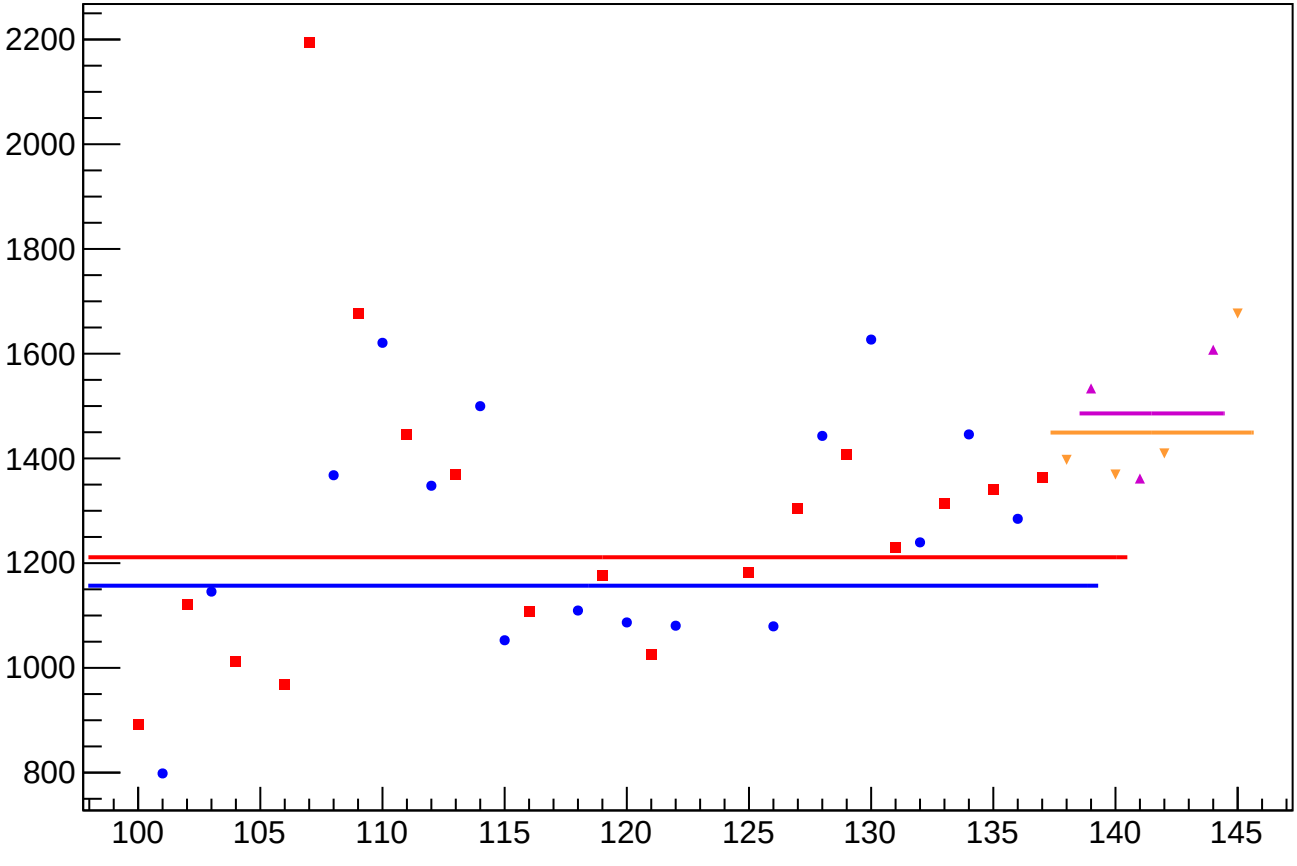
Right: -136.998+/-316.519 $\chi^2$/NDF: 30.6/33

In: -141.526+/-397.802 $\chi^2$/NDF:16.2/18

Out: 385.897+/-402.311 $\chi^2$/NDF:22.4/21

All: 119.213+/-282.869 $\chi^2$/NDF: 39.5/40

# asym_us_avg_cor_correction_rms vs Slug, Sign Corrected




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

Left Out: 1449.385+/-0.610 $\chi^2$/NDF:38082.8/3

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

Left In: 1485.919+/-0.653 $\chi^2$/NDF:26411.2/2

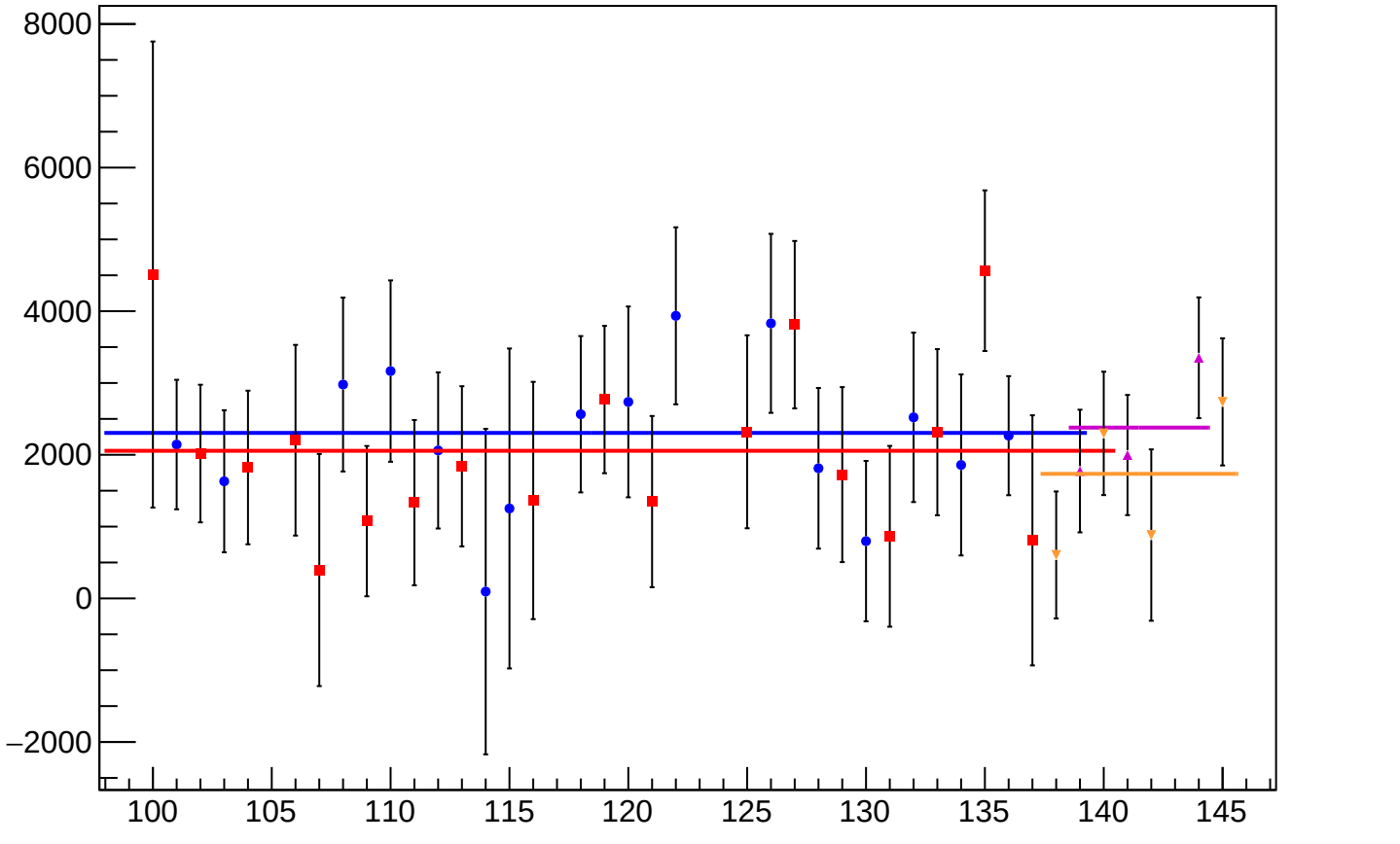
Left: 1466.403+/-0.446 $\chi^2$/NDF: 66165.3/6

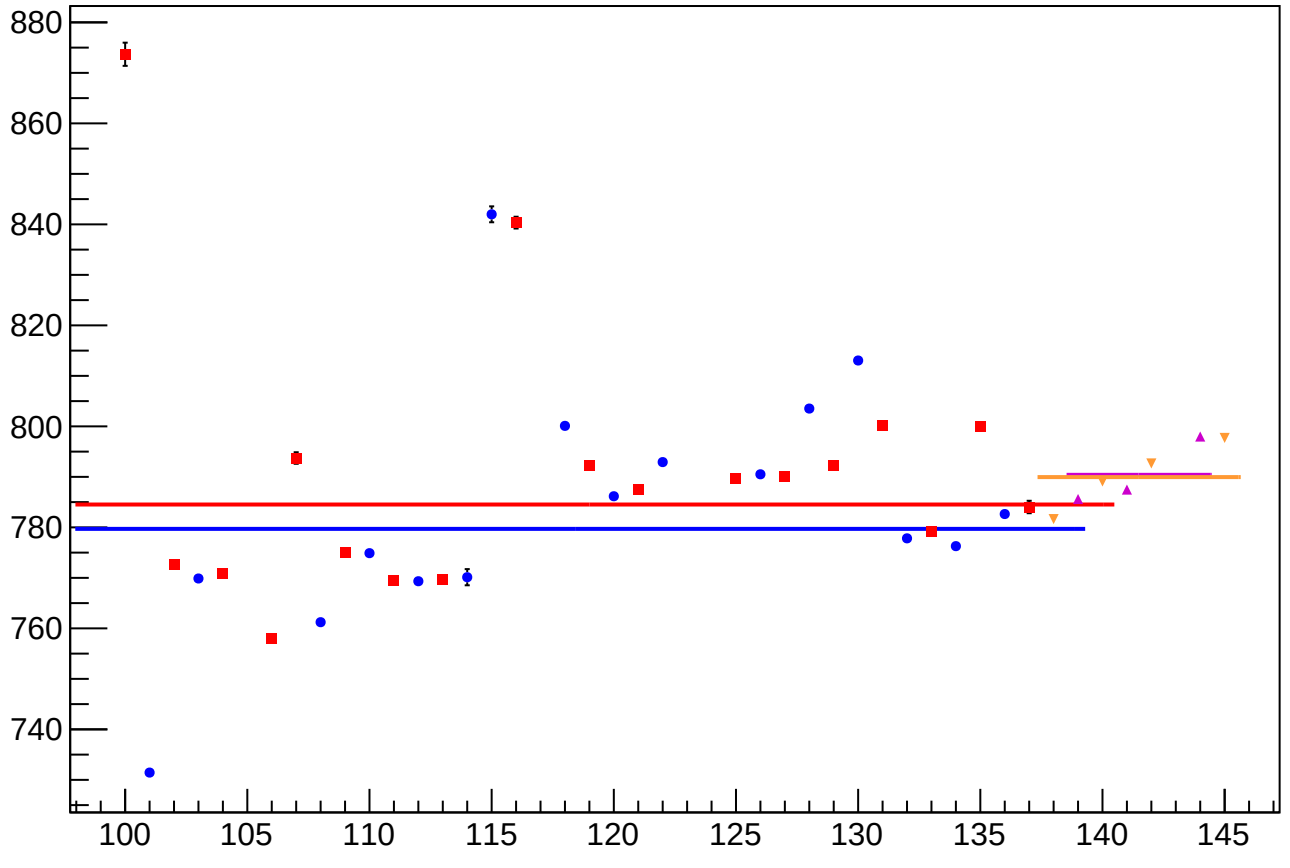
Right: 1183.255+/-0.224 $\chi^2$/NDF: 981543.7/33

In: 1217.963+/-0.281 $\chi^2$/NDF:802162.5/18

Out: 1263.065+/-0.284 $\chi^2$/NDF:555059.6/21

All: 1240.260+/-0.200 $\chi^2$/NDF: 1369931.6/40


overload_cor_asym_us_avg_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
100
105
110
115
120
125
130
135
140
145
Right In: 2304.852+/-289.704 χ²/NDF: 8.1/15
Left Out: 1734.843+/-465.715 χ²/NDF:3.9/3
Right Out: 2055.666+/-289.090 χ²/NDF: 12.9/17
Left In: 2378.914+/-487.249 χ²/NDF:2.0/2
Left: 2042.332+/-336.666 χ²/NDF: 6.8/6
Right: 2179.995+/-204.634 χ²/NDF: 21.3/33
In: 2324.196+/-249.013 χ²/NDF:10.1/18
Out: 1966.431+/-245.616 χ²/NDF:17.1/21
All: 2142.856+/-174.866 χ²/NDF: 28.3/40




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

Left Out: 789.954+/-0.329 $\chi^2$/NDF:342.7/3

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

Left In: 790.403+/-0.345 $\chi^2$/NDF:249.8/2

Left: 790.169+/-0.238 $\chi^2$/NDF: 593.4/6

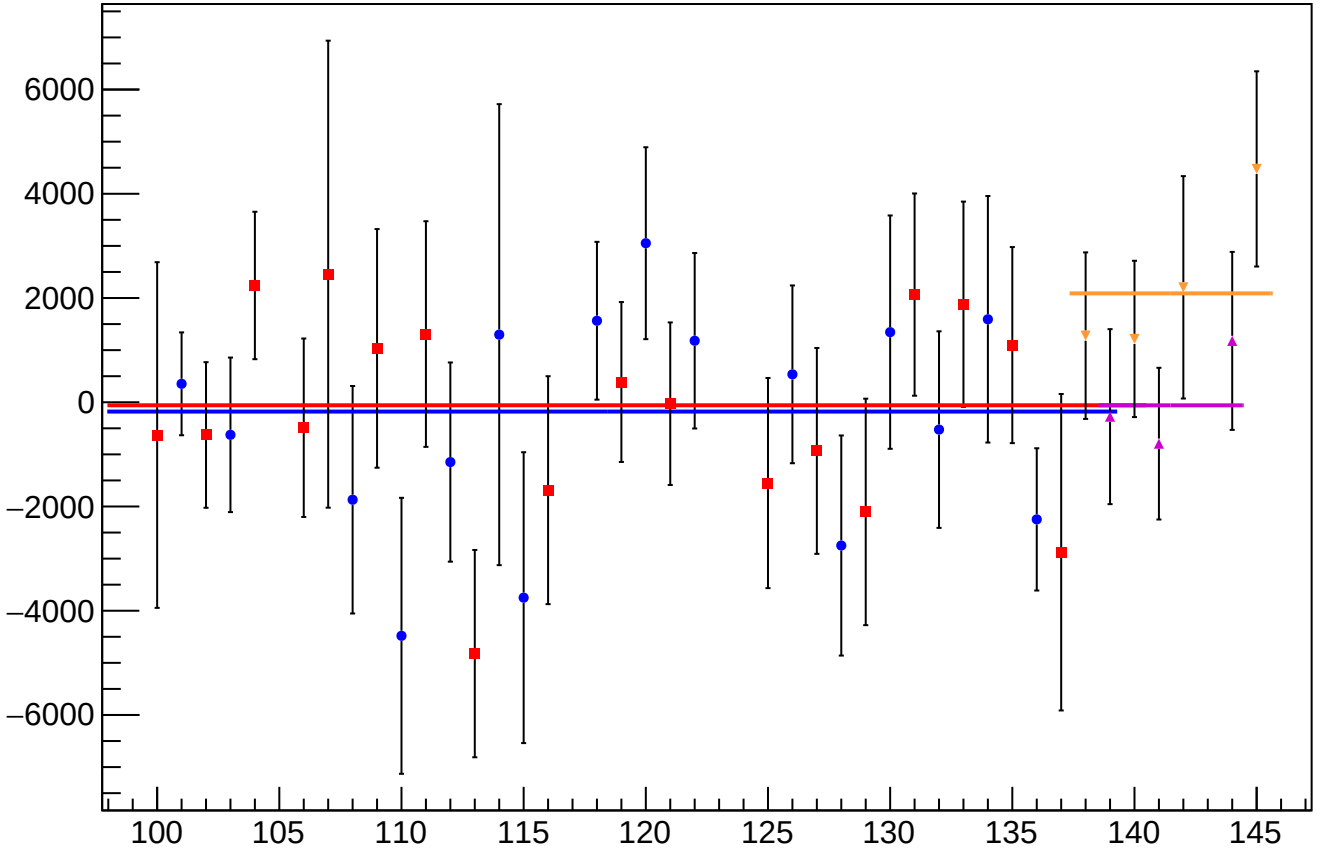
Right: 782.118+/-0.145 $\chi^2$/NDF: 19498.0/33

In: 782.497+/-0.176 $\chi^2$/NDF:13022.7/18

Out: 786.035+/-0.174 $\chi^2$/NDF:7699.0/21

All: 784.290+/-0.124 $\chi^2$/NDF: 20926.3/40

asym_us_avg_overload_cor_correction_mean vs Slug, Sign Corrected




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

Left Out: 2088.982+/-863.488 $\chi^2$/NDF:2.2/3

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

Left In: -58.943+/-924.557 $\chi^2$/NDF:0.8/2

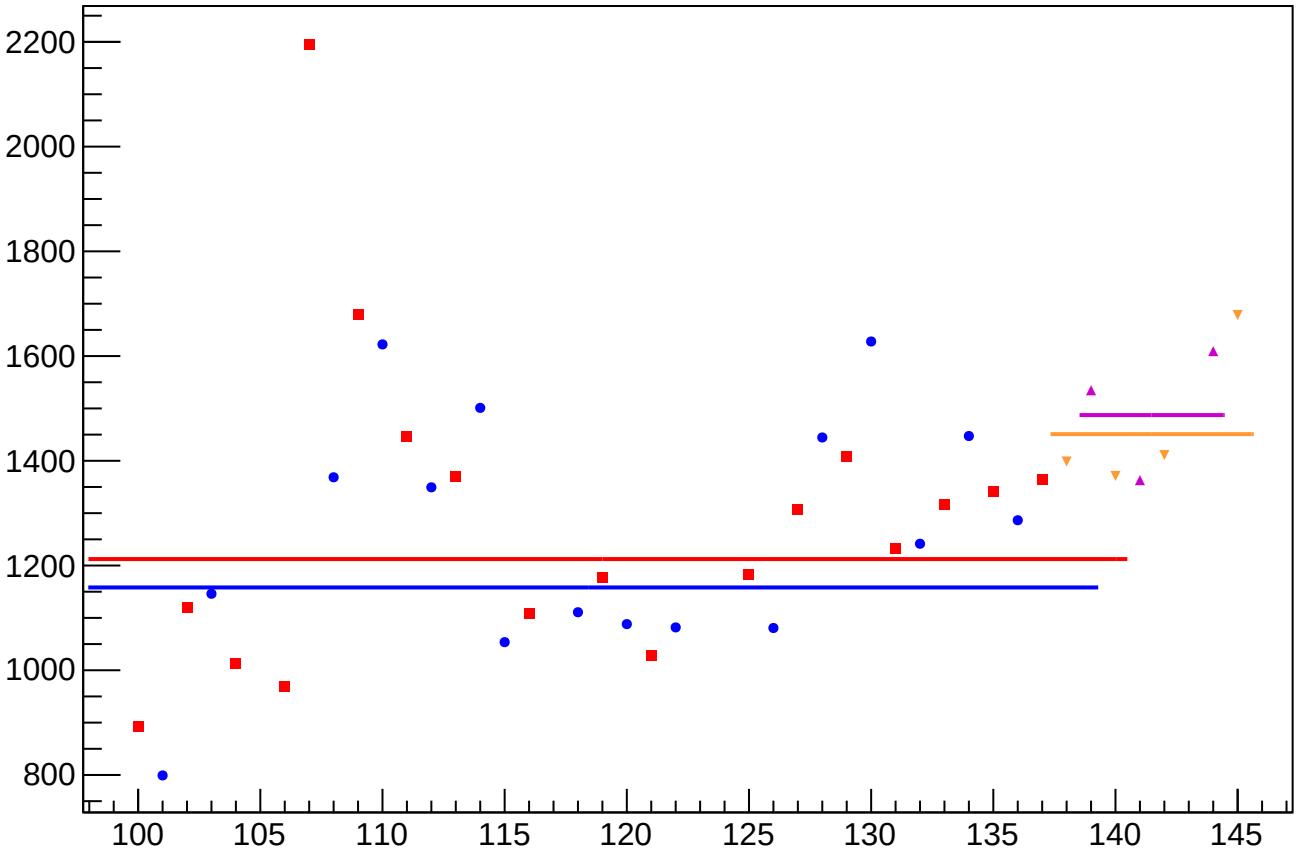
Left: 1088.294+/-631.064 $\chi^2$/NDF: 5.9/6

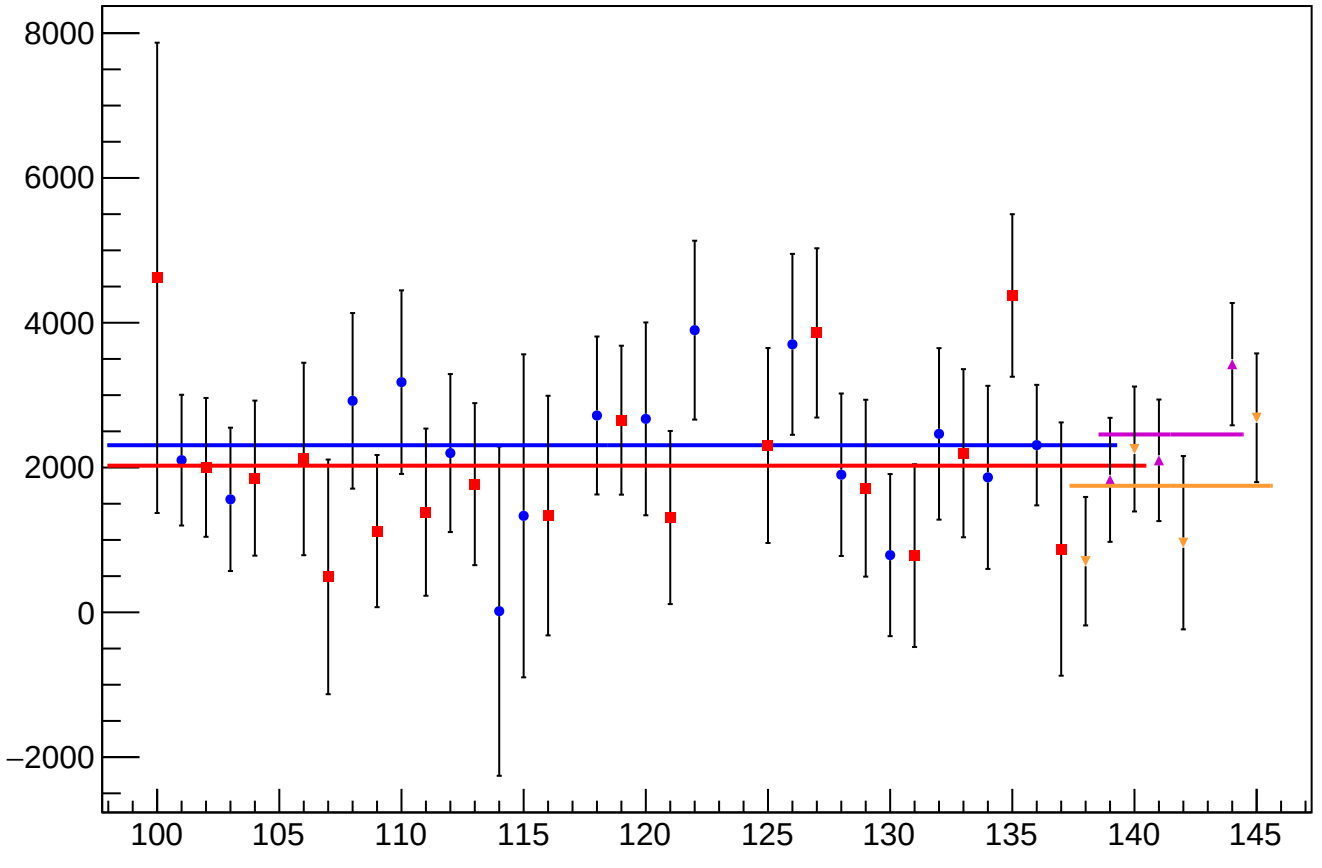
Right: -120.128+/-316.821 $\chi^2$/NDF: 31.0/33

In: -156.287+/-398.199 $\chi^2$/NDF:16.5/18

Out: 408.893+/-402.685 $\chi^2$/NDF:22.3/21

All: 123.137+/-283.142 $\chi^2$/NDF: 39.8/40


asym_us_avg_overload_cor_correction_rms vs Slug, Sign Corrected
2200
2000
1800
1600
1400
1200
1000
800
100
105
110
115
120
125
130
135
140
145
Right In: 1158.134+/-0.312 χ²/NDF: 569144.8/15
Left Out: 1450.951+/-0.611 χ²/NDF:38040.0/3
Right Out: 1212.347+/-0.322 χ²/NDF: 397938.1/17
Left In: 1487.327+/-0.654 χ²/NDF:26403.5/2
Left: 1467.898+/-0.446 χ²/NDF: 66097.1/6
Right: 1184.394+/-0.224 χ²/NDF: 981708.9/33
In: 1219.197+/-0.282 χ²/NDF:802067.2/18
Out: 1264.238+/-0.285 χ²/NDF:555478.8/21
All: 1241.465+/-0.200 χ²/NDF: 1370196.9/40




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

Left Out: 1747.801+/-467.451 $\chi^2$/NDF:3.3/3

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

Left In: 2457.017+/-488.912 $\chi^2$/NDF:2.0/2

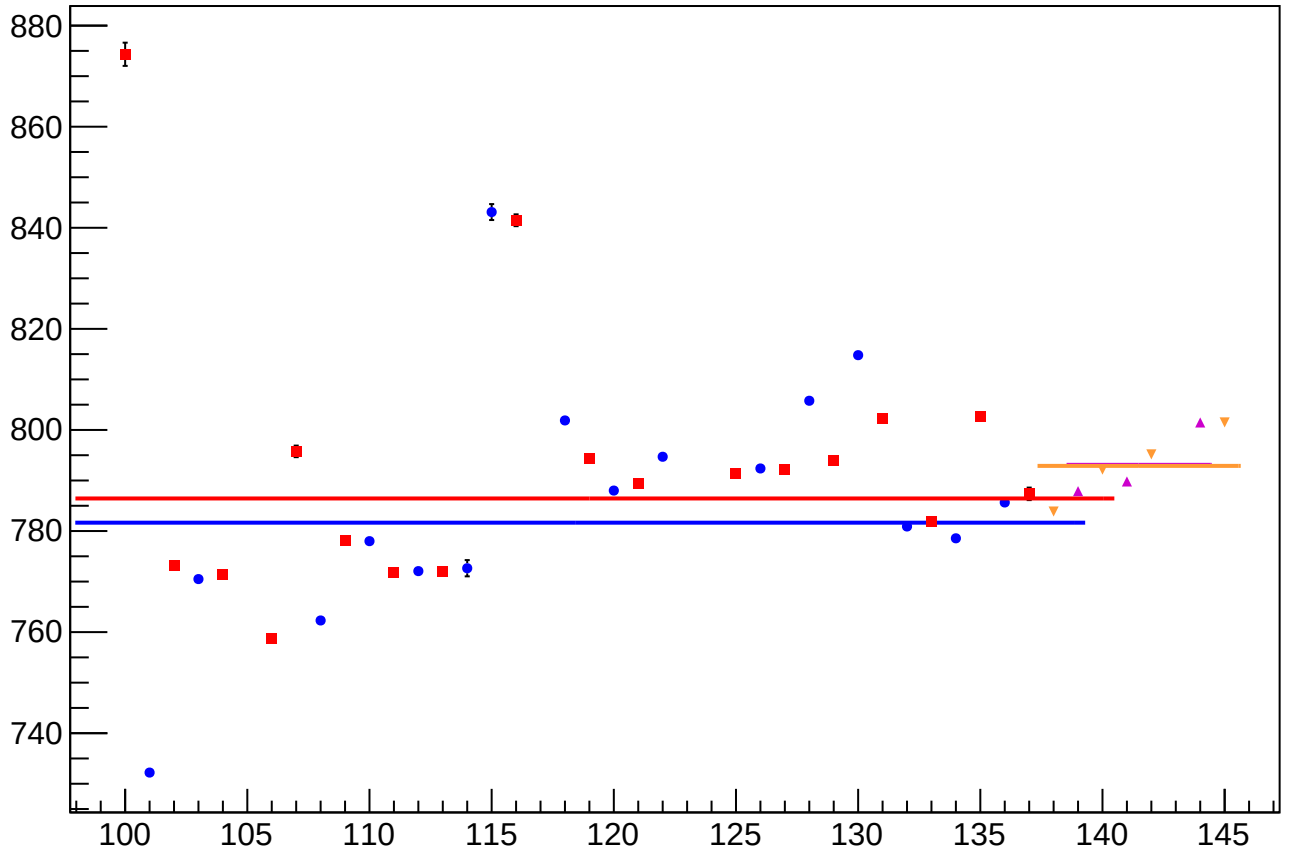
Left: 2086.502+/-337.870 $\chi^2$/NDF: 6.4/6

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

In: 2346.983+/-249.697 $\chi^2$/NDF:9.9/18

Out: 1948.493+/-246.305 $\chi^2$/NDF:15.5/21

All: 2145.012+/-175.351 $\chi^2$/NDF: 26.7/40




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

Left Out: 792.890+/-0.331 $\chi^2$/NDF:403.0/3

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

Left In: 793.095+/-0.346 $\chi^2$/NDF:301.6/2

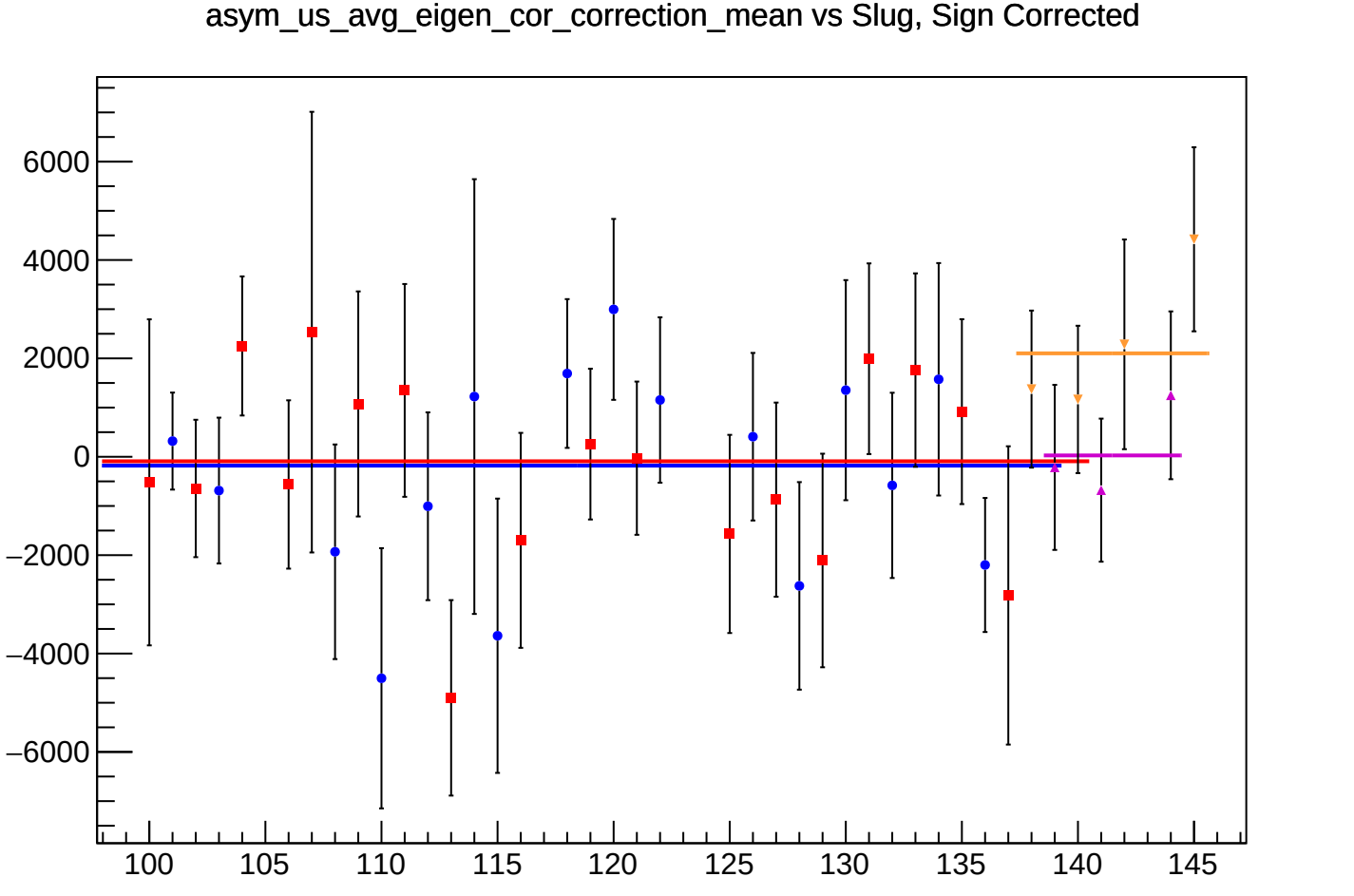
Left: 792.988+/-0.239 $\chi^2$/NDF: 704.8/6

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

In: 784.638+/-0.177 $\chi^2$/NDF:13430.2/18

Out: 788.233+/-0.174 $\chi^2$/NDF:7879.4/21

All: 786.460+/-0.124 $\chi^2$/NDF: 21519.7/40




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

Left Out: 2102.274+/-862.568 $\chi^2$/NDF:2.1/3

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

Left In: 27.124+/-923.692 $\chi^2$/NDF:0.8/2

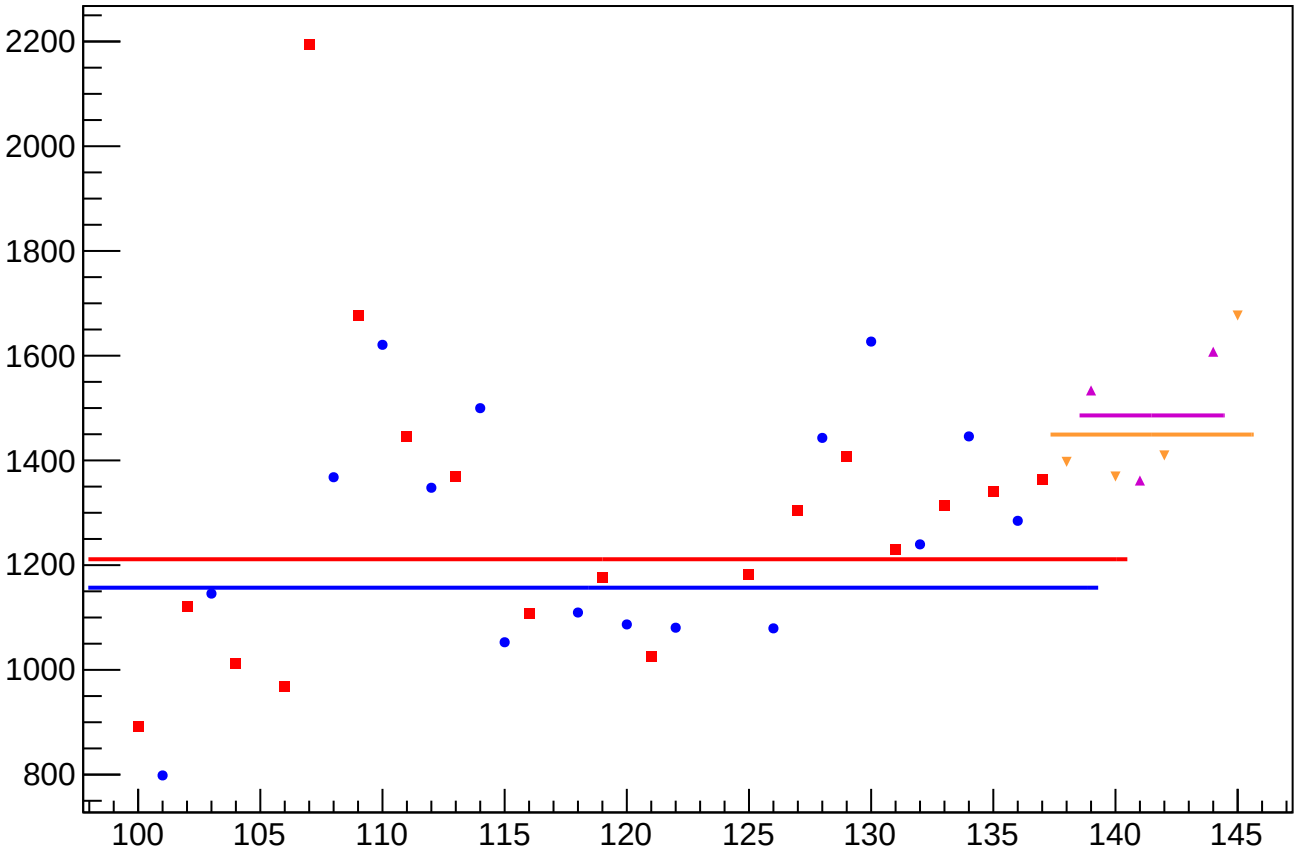
Left: 1135.625+/-630.430 $\chi^2$/NDF: 5.6/6

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

In: -141.526+/-397.802 $\chi^2$/NDF:16.2/18

Out: 385.897+/-402.311 $\chi^2$/NDF:22.4/21

All: 119.213+/-282.869 $\chi^2$/NDF: 39.5/40




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

Left Out: 1449.385+/-0.610 $\chi^2$/NDF:38082.8/3

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

Left In: 1485.919+/-0.653 $\chi^2$/NDF:26411.2/2

Left: 1466.403+/-0.446 $\chi^2$/NDF: 66165.3/6

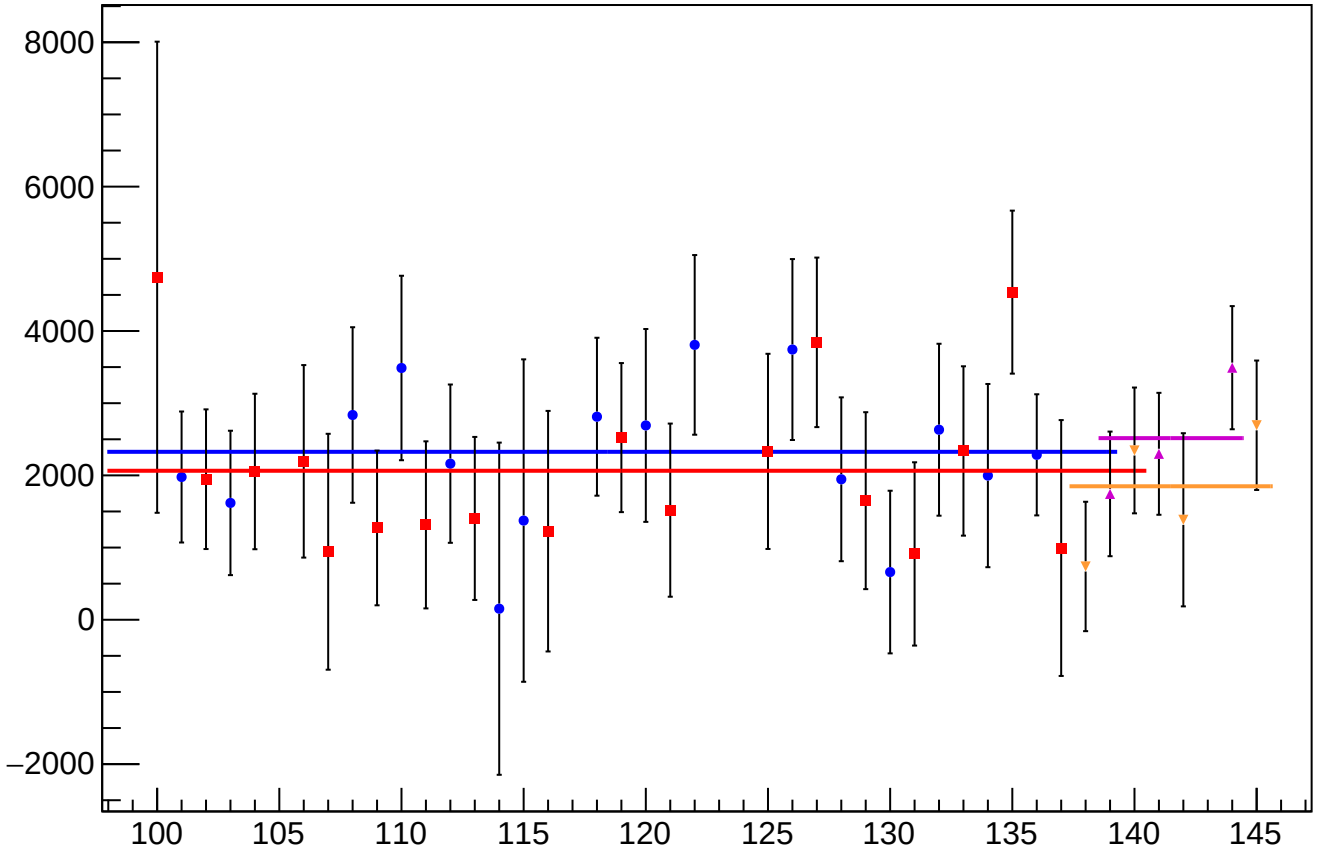
Right: 1183.255+/-0.224 $\chi^2$/NDF: 981543.7/33

In: 1217.963+/-0.281 $\chi^2$/NDF:802162.5/18

Out: 1263.065+/-0.284 $\chi^2$/NDF:555059.6/21

All: 1240.260+/-0.200 $\chi^2$/NDF: 1369931.6/40

# dit_asym_us_avg_mean vs Slug, Sign Corrected




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

Left Out: 1849.051+/-471.340 $\chi^2$/NDF:2.9/3

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

Left In: 2515.954+/-492.751 $\chi^2$/NDF:2.2/2

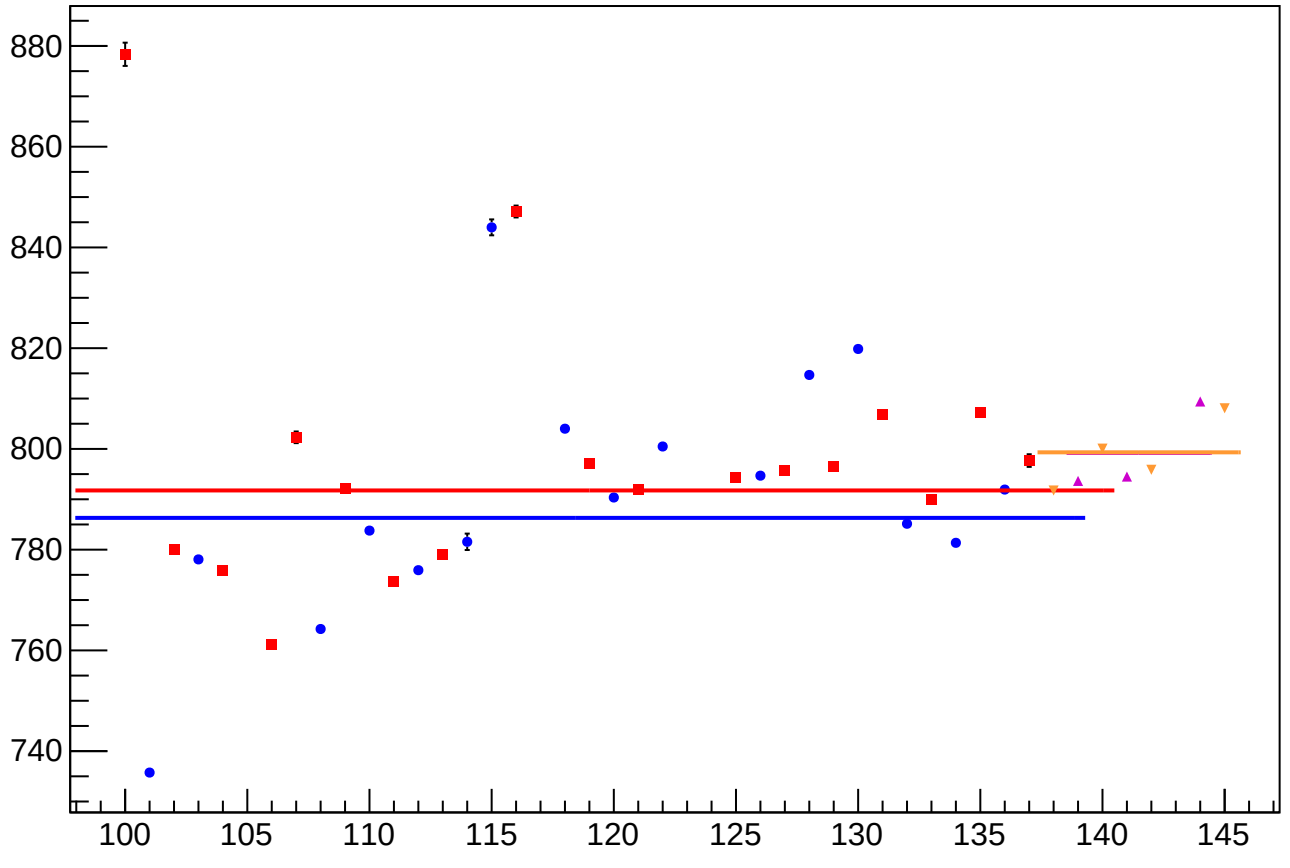
Left: 2167.698+/-340.605 $\chi^2$/NDF: 6.0/6

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

In: 2375.731+/-251.317 $\chi^2$/NDF:10.4/18

Out: 2004.429+/-248.097 $\chi^2$/NDF:14.7/21

All: 2187.686+/-176.559 $\chi^2$/NDF: 26.2/40




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

Left Out: 799.322+/-0.333 $\chi^2$/NDF:351.4/3

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

Left In: 799.205+/-0.348 $\chi^2$/NDF:431.3/2

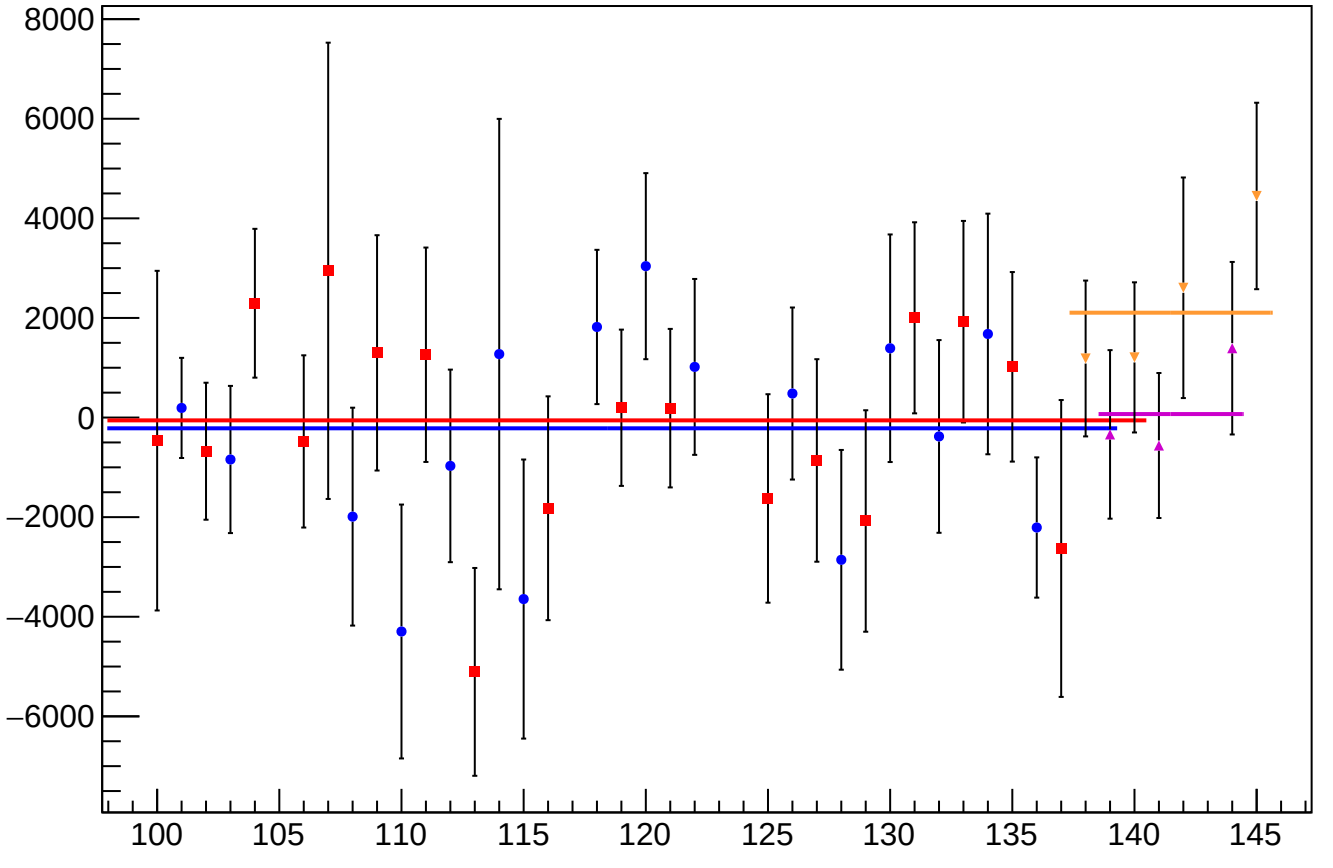
Left: 799.266+/-0.241 $\chi^2$/NDF: 782.7/6

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

In: 789.664+/-0.178 $\chi^2$/NDF:14015.9/18

Out: 793.852+/-0.175 $\chi^2$/NDF:7739.0/21

All: 791.785+/-0.125 $\chi^2$/NDF: 22036.2/40




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

Left Out: 2105.449+/-864.579 $\chi^2$/NDF:2.3/3

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

Left In: 69.962+/-930.813 $\chi^2$/NDF:0.8/2

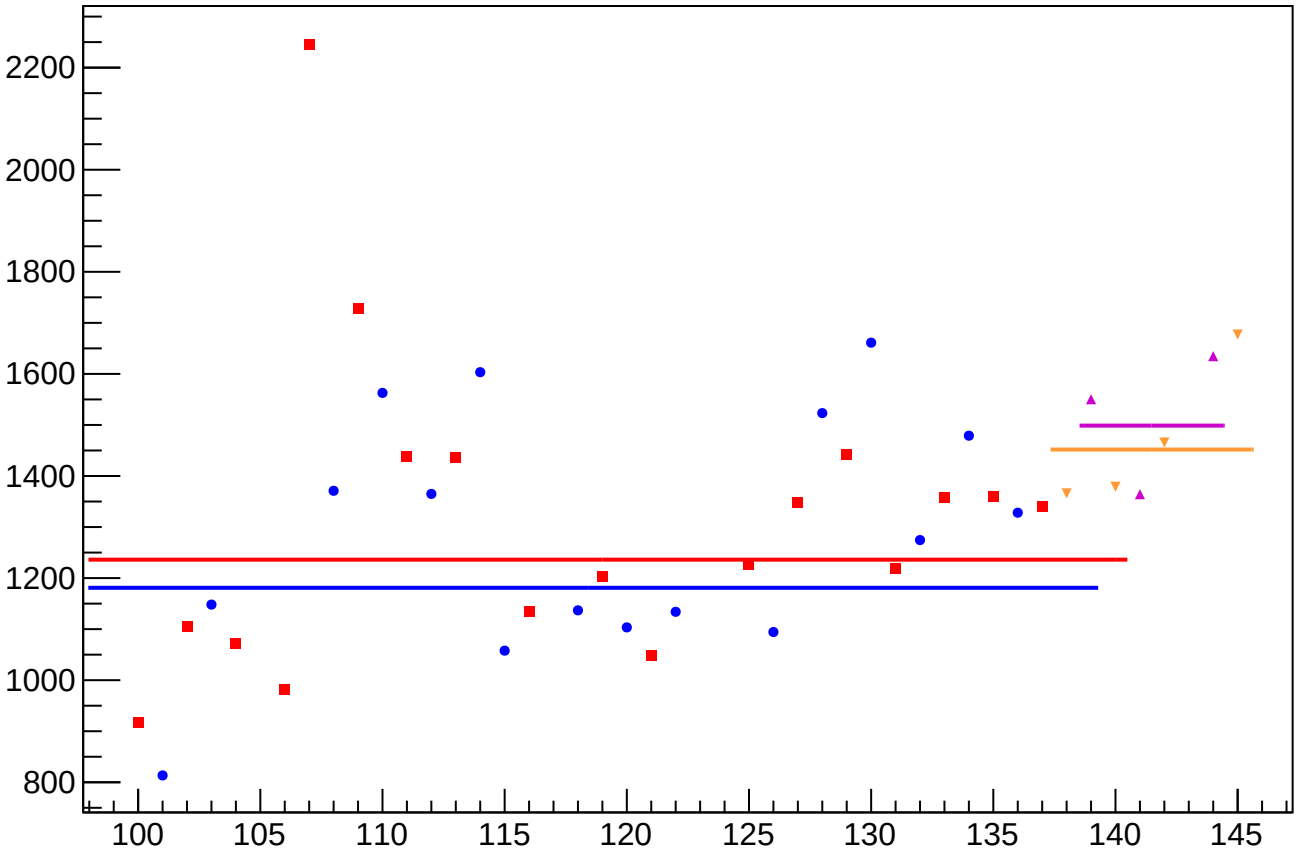
Left: 1162.695+/-633.472 $\chi^2$/NDF: 5.7/6

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

In: -162.065+/-404.801 $\chi^2$/NDF:16.2/18

Out: 426.691+/-408.828 $\chi^2$/NDF:22.3/21

All: 129.399+/-287.651 $\chi^2$/NDF: 39.5/40




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

Left Out: 1451.825+/-0.611 $\chi^2$/NDF:39775.1/3

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

Left In: 1498.718+/-0.658 $\chi^2$/NDF:31237.6/2

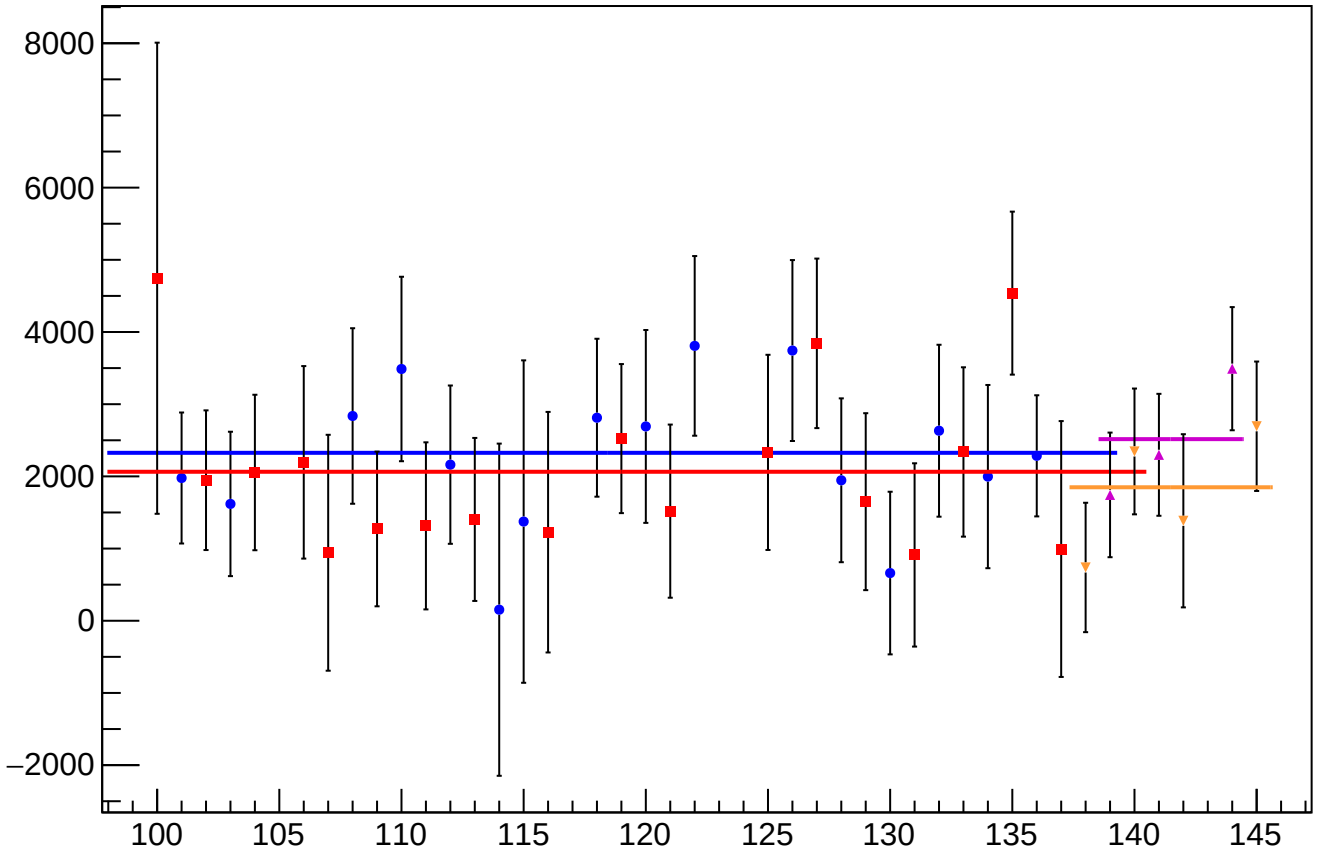
Left: 1473.544+/-0.448 $\chi^2$/NDF: 73737.7/6

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

In: 1241.088+/-0.286 $\chi^2$/NDF:791295.2/18

Out: 1284.363+/-0.289 $\chi^2$/NDF:533659.9/21

All: 1262.511+/-0.203 $\chi^2$/NDF: 1336270.4/40




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

Left Out: 1849.057+/-471.340 $\chi^2$/NDF:2.9/3

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

Left In: 2515.953+/-492.751 $\chi^2$/NDF:2.2/2

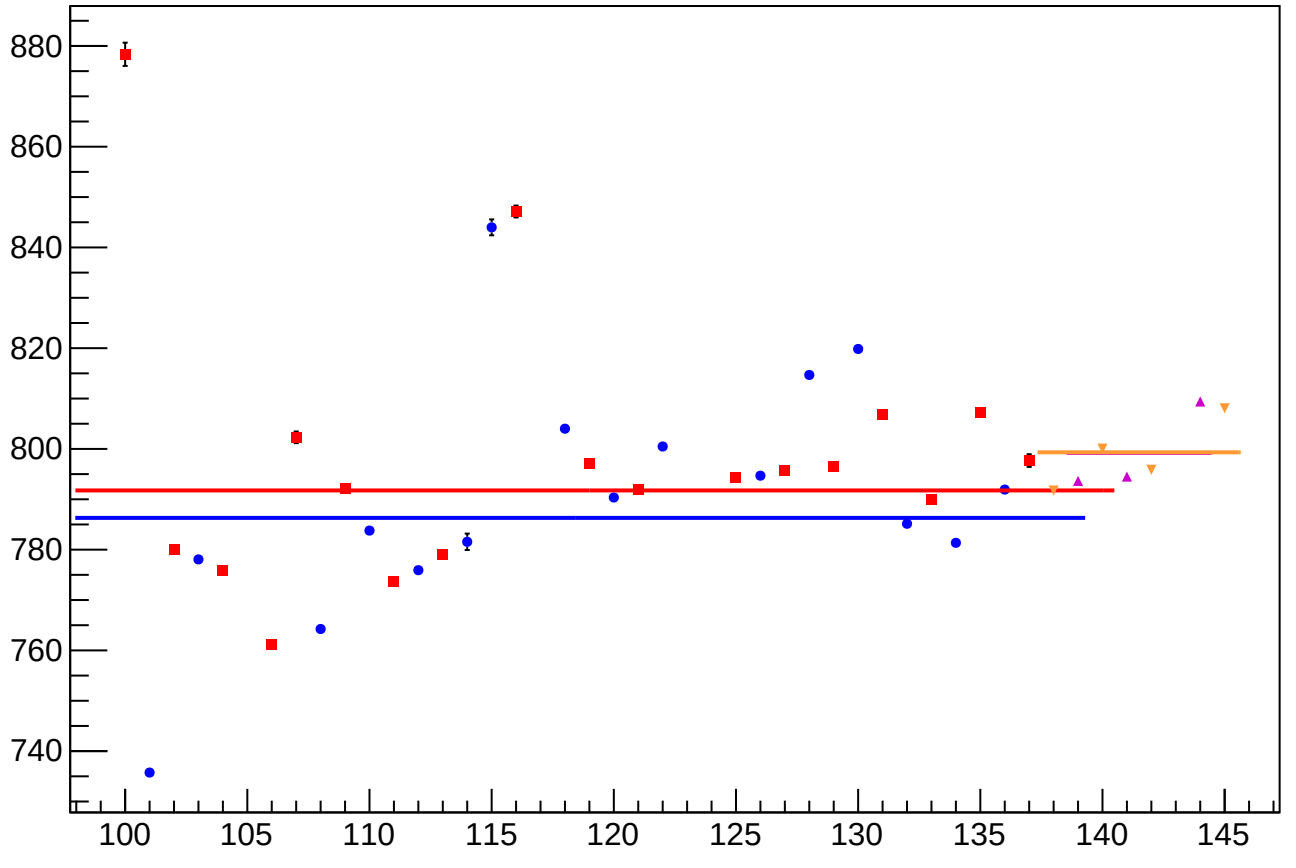
Left: 2167.701+/-340.605 $\chi^2$/NDF: 6.0/6

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

In: 2375.730+/-251.317 $\chi^2$/NDF:10.4/18

Out: 2004.430+/-248.097 $\chi^2$/NDF:14.7/21

All: 2187.686+/-176.559 $\chi^2$/NDF: 26.2/40




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

Left Out: 799.322+/-0.333 $\chi^2$/NDF:351.4/3

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

Left In: 799.205+/-0.348 $\chi^2$/NDF:431.3/2

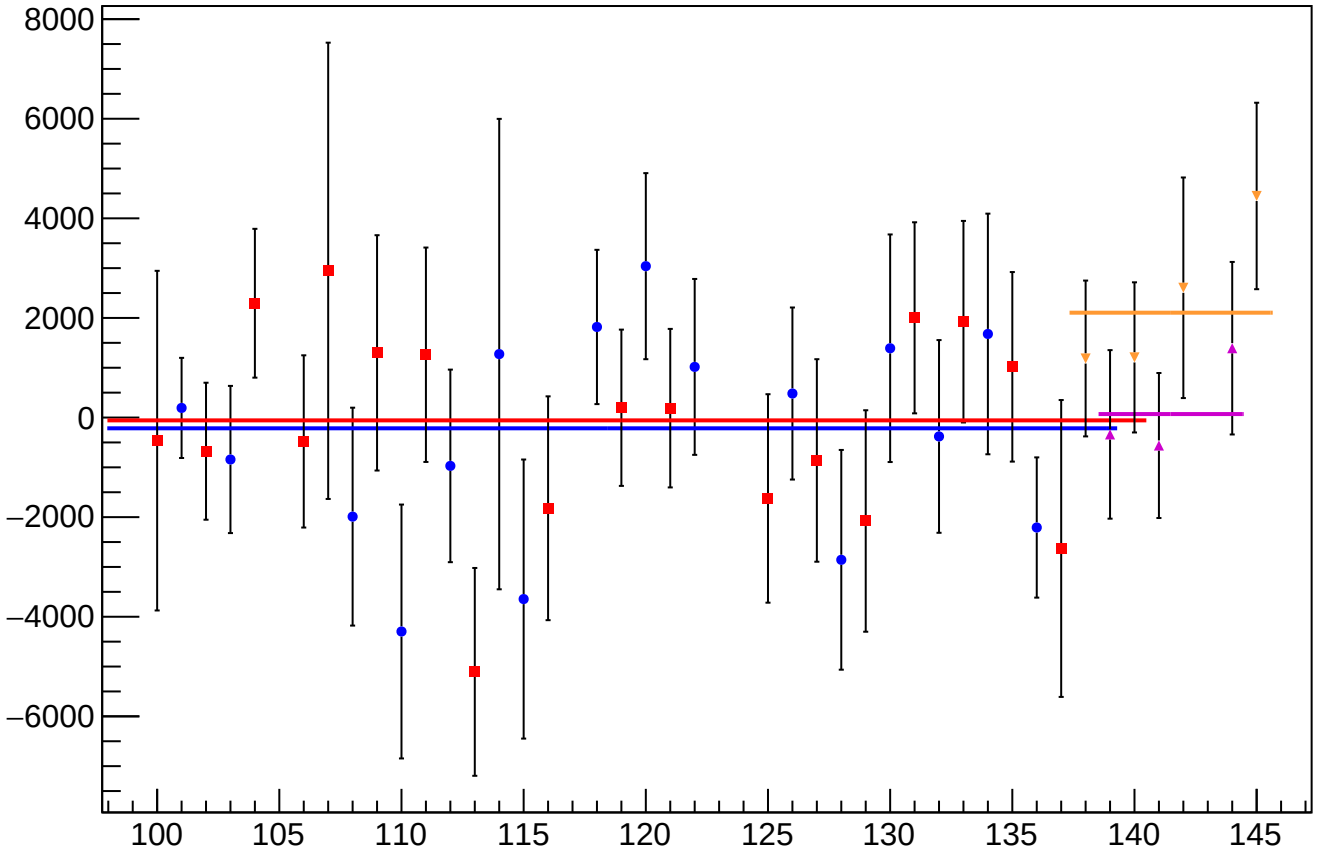
Left: 799.266+/-0.241 $\chi^2$/NDF: 782.7/6

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

In: 789.664+/-0.178 $\chi^2$/NDF:14015.8/18

Out: 793.852+/-0.175 $\chi^2$/NDF:7739.0/21

All: 791.785+/-0.125 $\chi^2$/NDF: 22036.2/40




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

Left Out: 2105.454+/-864.581 $\chi^2$/NDF:2.3/3

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

Left In: 69.961+/-930.815 $\chi^2$/NDF:0.8/2

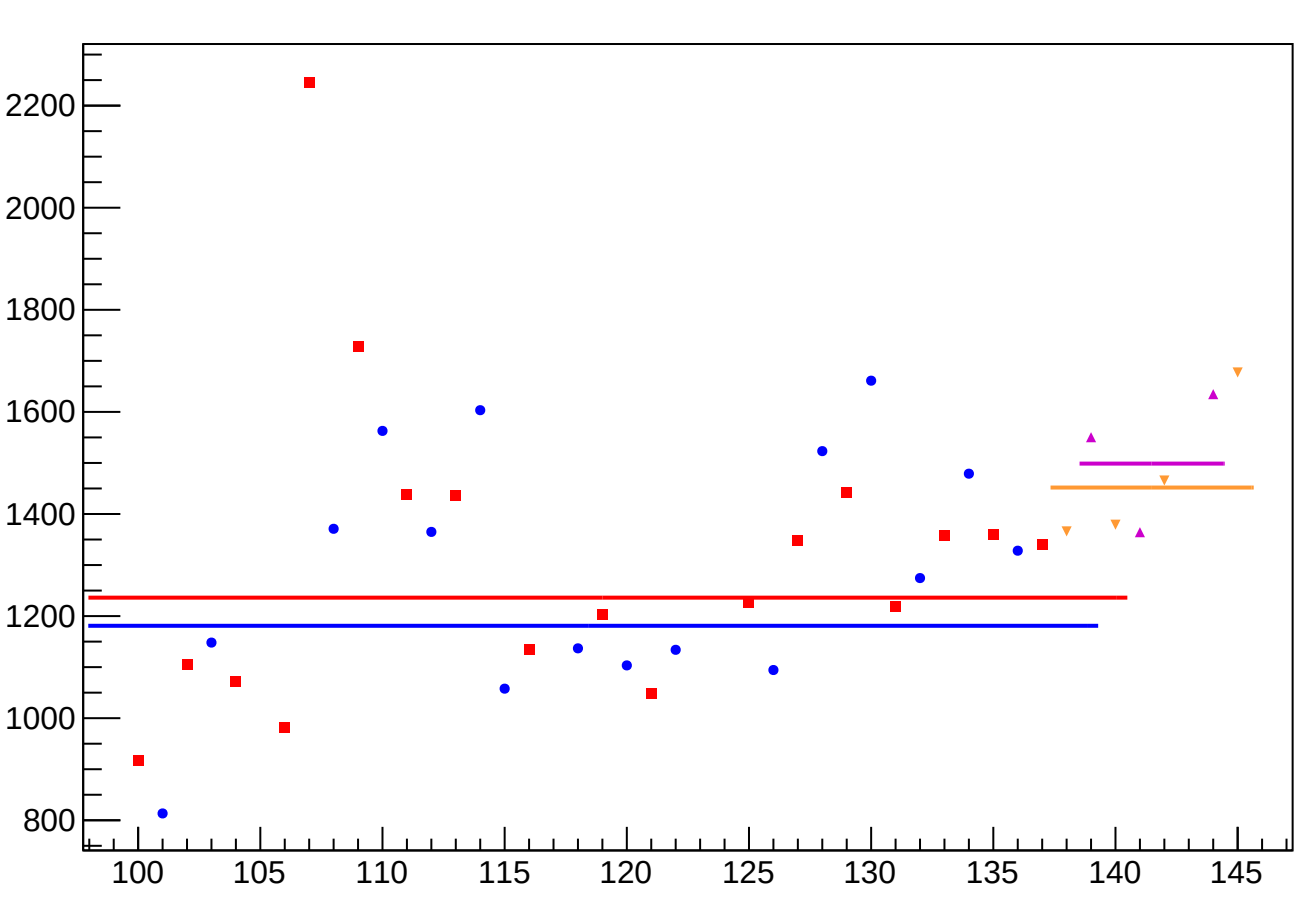
Left: 1162.697+/-633.473 $\chi^2$/NDF: 5.7/6

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

In: -162.065+/-404.800 $\chi^2$/NDF:16.2/18

Out: 426.689+/-408.827 $\chi^2$/NDF:22.3/21

All: 129.398+/-287.650 $\chi^2$/NDF: 39.5/40




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

Left Out: 1451.828+/-0.611 $\chi^2$/NDF:39775.3/3

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

Left In: 1498.721+/-0.658 $\chi^2$/NDF:31237.8/2

Left: 1473.547+/-0.448 $\chi^2$/NDF: 73738.1/6

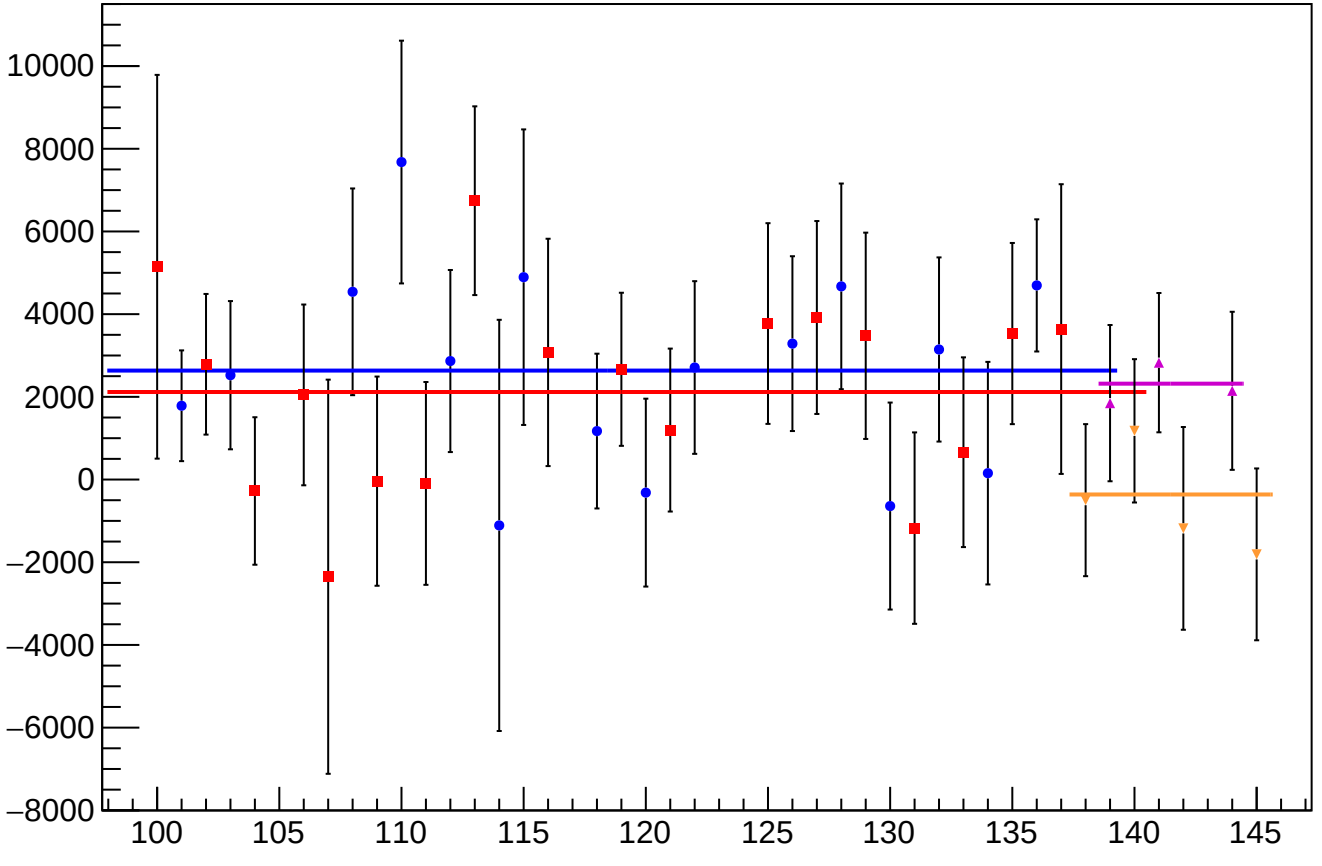
Right: 1207.692+/-0.228 $\chi^2$/NDF: 982914.1/33

In: 1241.086+/-0.286 $\chi^2$/NDF:791300.2/18

Out: 1284.360+/-0.289 $\chi^2$/NDF:533664.3/21

All: 1262.509+/-0.203 $\chi^2$/NDF: 1336279.7/40

# asym_us_avg_mean vs Slug, Sign Corrected




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

Left Out: -361.255+/-986.945 $\chi^2$/NDF:1.4/3

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

Left In: 2318.678+/-1050.495 $\chi^2$/NDF:0.2/2

Left: 895.203+/-719.293 $\chi^2$/NDF: 5.0/6

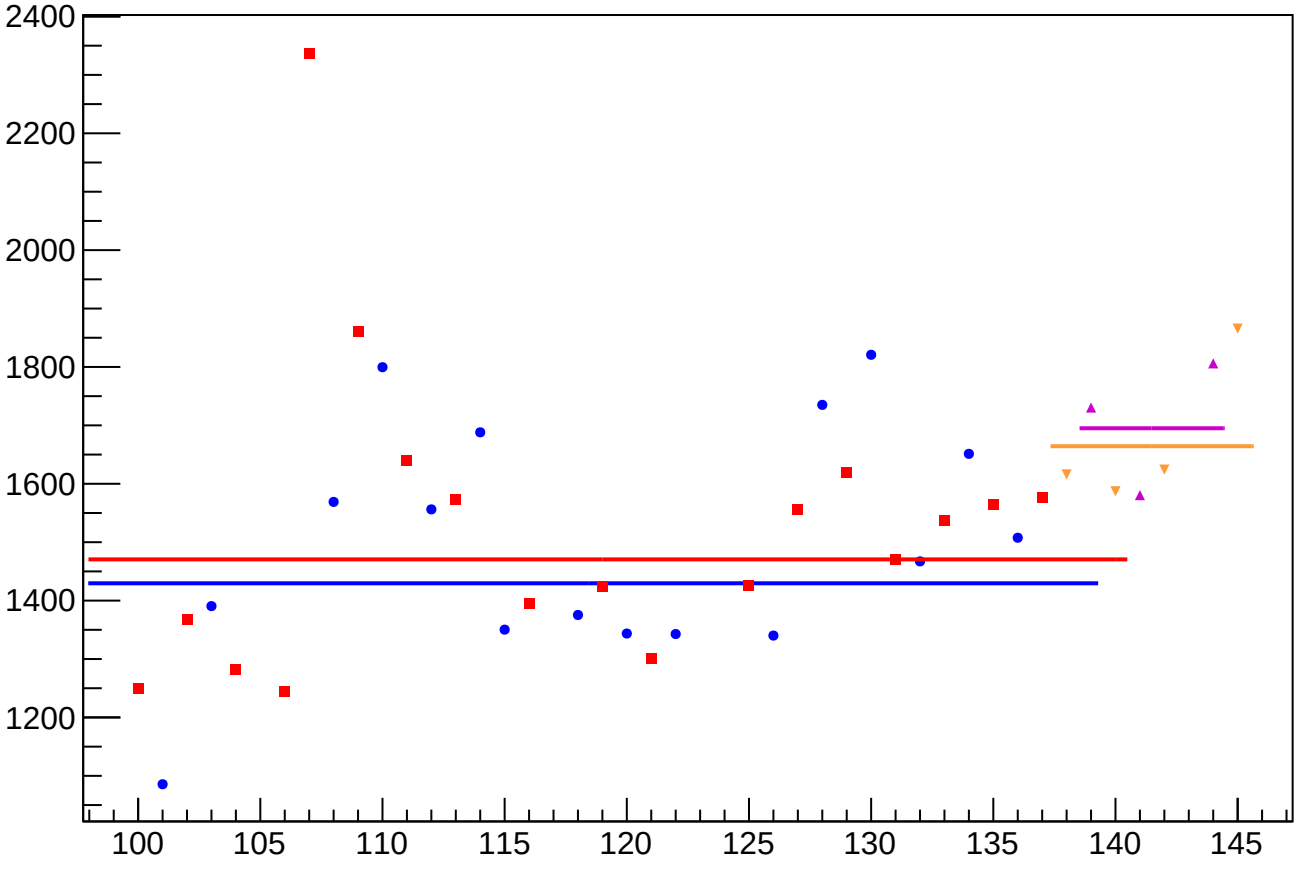
Right: 2380.790+/-383.745 $\chi^2$/NDF: 26.4/33

In: 2569.580+/-478.878 $\chi^2$/NDF:12.5/18

Out: 1533.965+/-478.755 $\chi^2$/NDF:19.9/21

All: 2051.639+/-338.574 $\chi^2$/NDF: 34.8/40

# asym_us_avg_rms vs Slug, Sign Corrected




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

Left Out: 1664.315+/-0.698 $\chi^2$/NDF:24646.6/3

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

Left In: 1695.058+/-0.743 $\chi^2$/NDF:16693.9/2

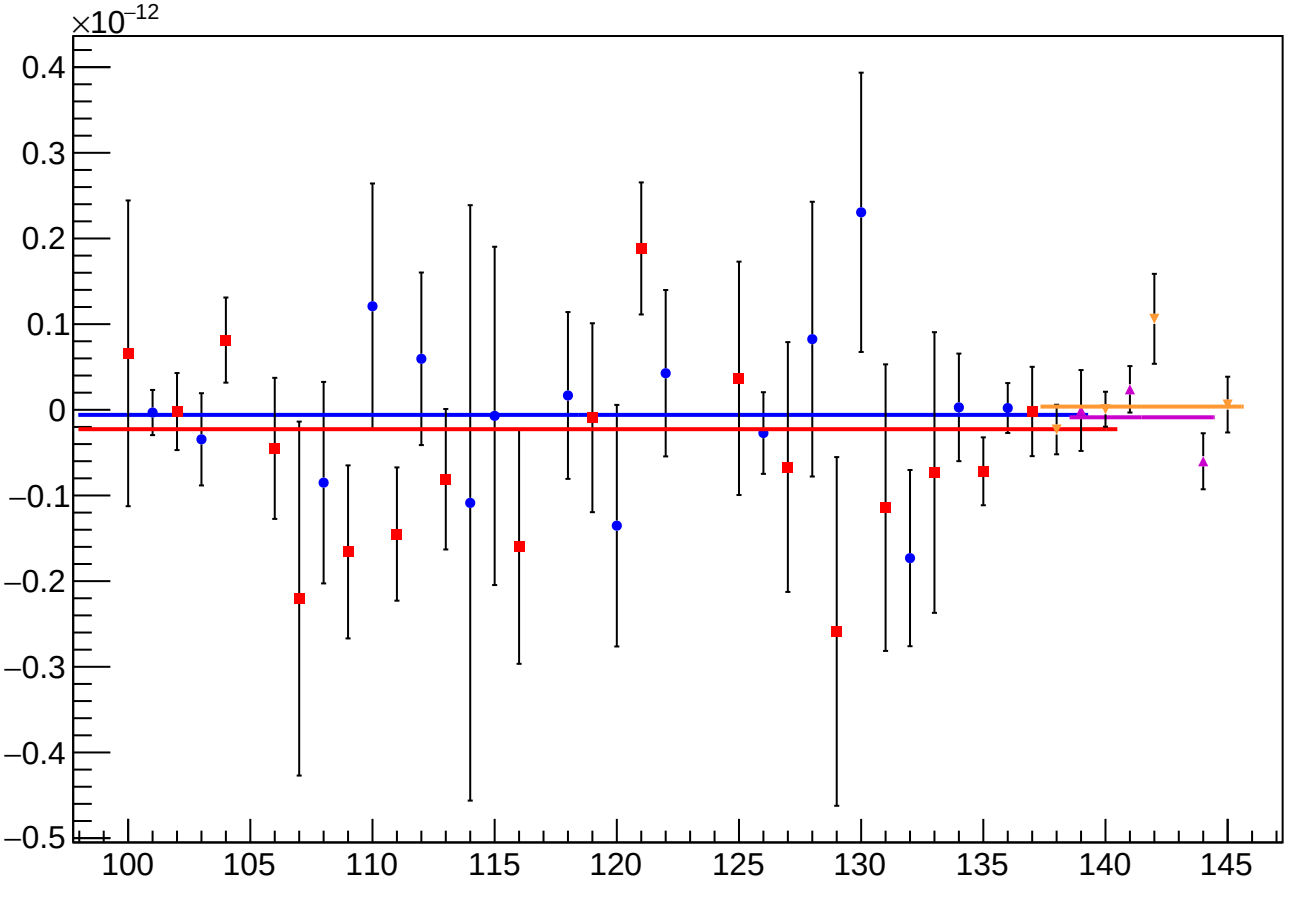
Left: 1678.729+/-0.509 $\chi^2$/NDF: 42250.3/6

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

In: 1484.807+/-0.339 $\chi^2$/NDF:411214.2/18

Out: 1516.157+/-0.339 $\chi^2$/NDF:301654.7/21

All: 1500.486+/-0.239 $\chi^2$/NDF: 717155.6/40




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

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.7/3

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

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.9/2

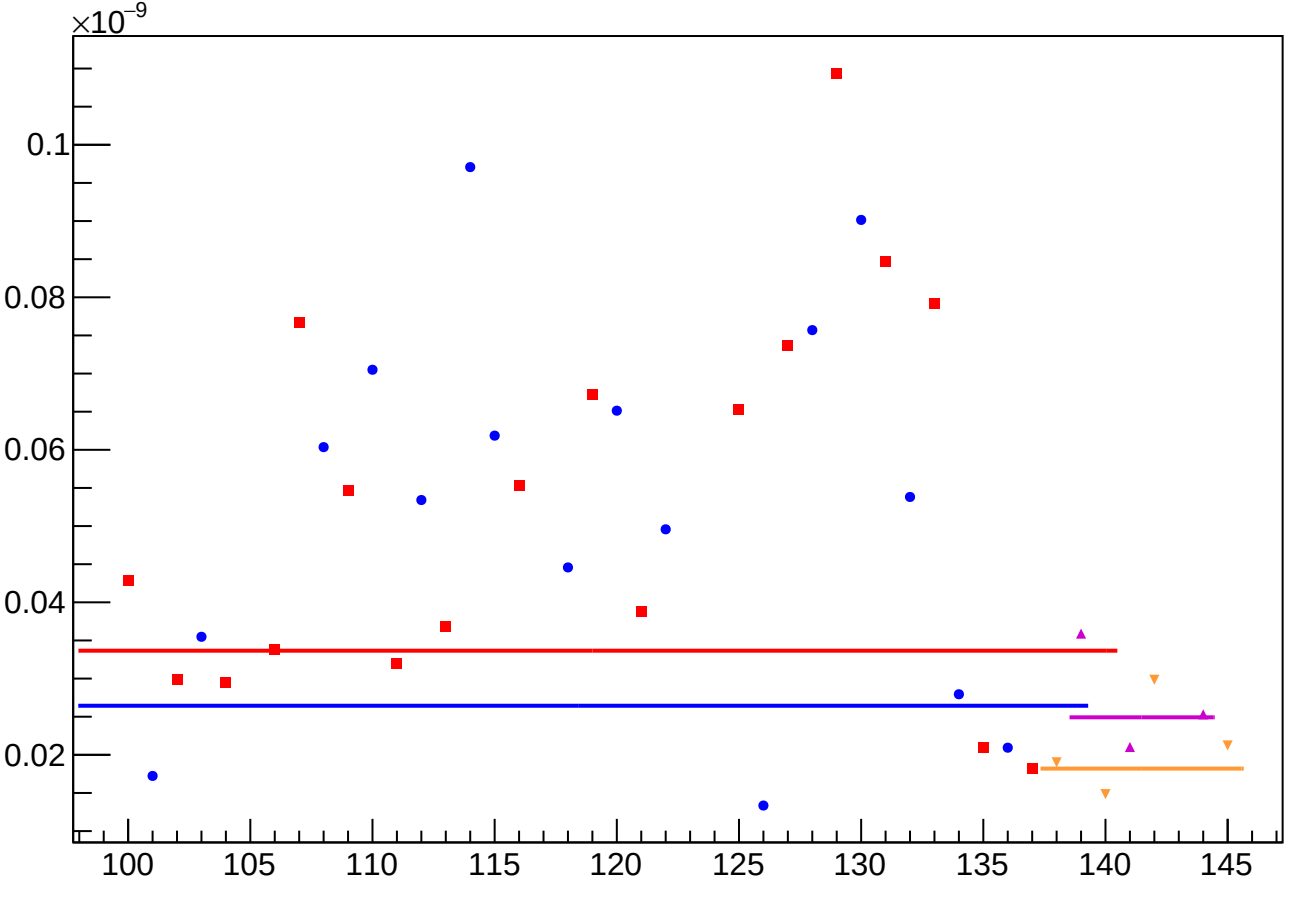
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.9/6

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

In: -0.000+/-0.000 $\chi^2$/NDF:12.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:29.1/21

All: -0.000+/-0.000 $\chi^2$/NDF: 41.5/40




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

Left Out: 0.000+/-0.000 $\chi^2$/NDF:171623.8/3

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

Left In: 0.000+/-0.000 $\chi^2$/NDF:149594.0/2

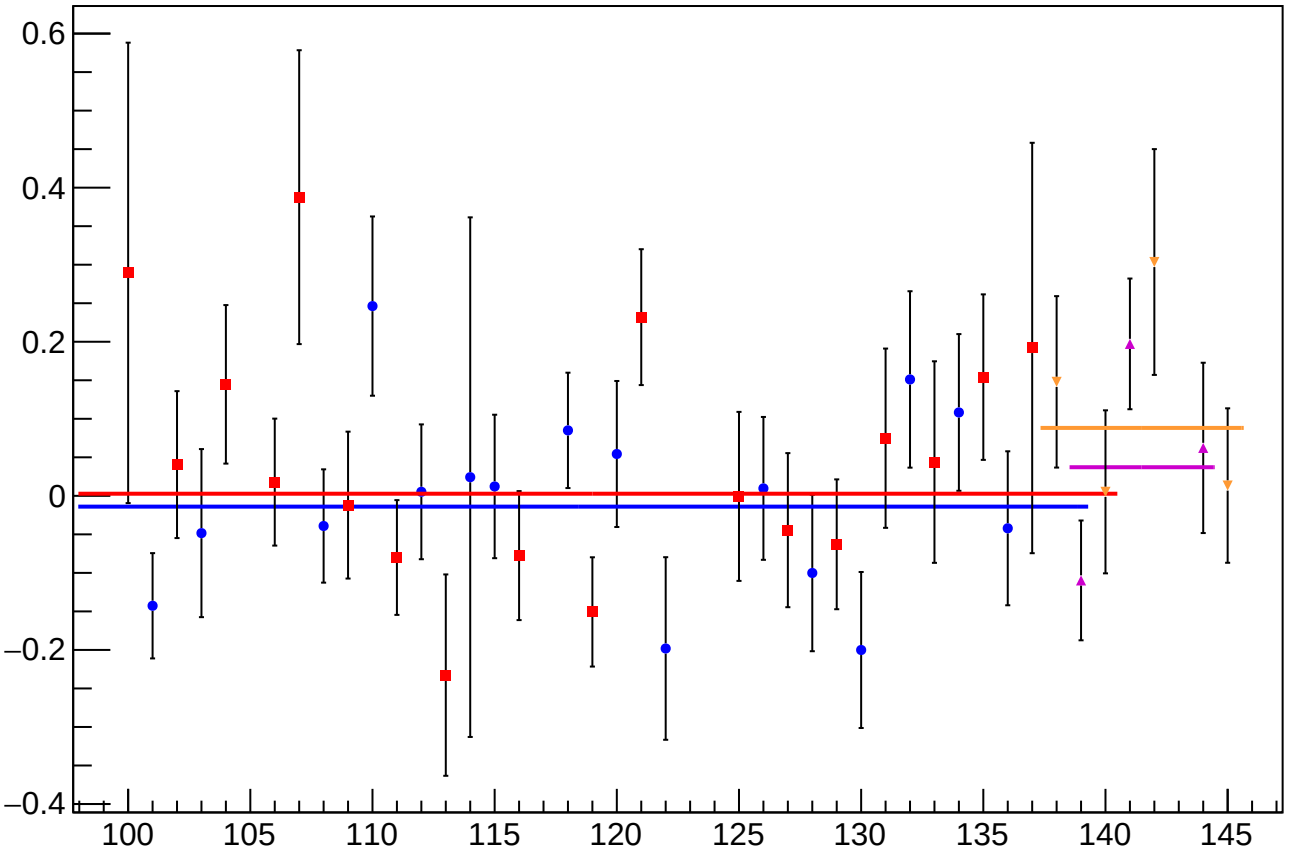
Left: 0.000+/-0.000 $\chi^2$/NDF: 480279.3/6

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

In: 0.000+/-0.000 $\chi^2$/NDF:2295815.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2777325.8/21

All: 0.000+/-0.000 $\chi^2$/NDF: 5096402.8/40




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

Left Out: 0.088+/-0.056 $\chi^2$/NDF:3.6/3

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

Left In: 0.037+/-0.051 $\chi^2$/NDF:7.2/2

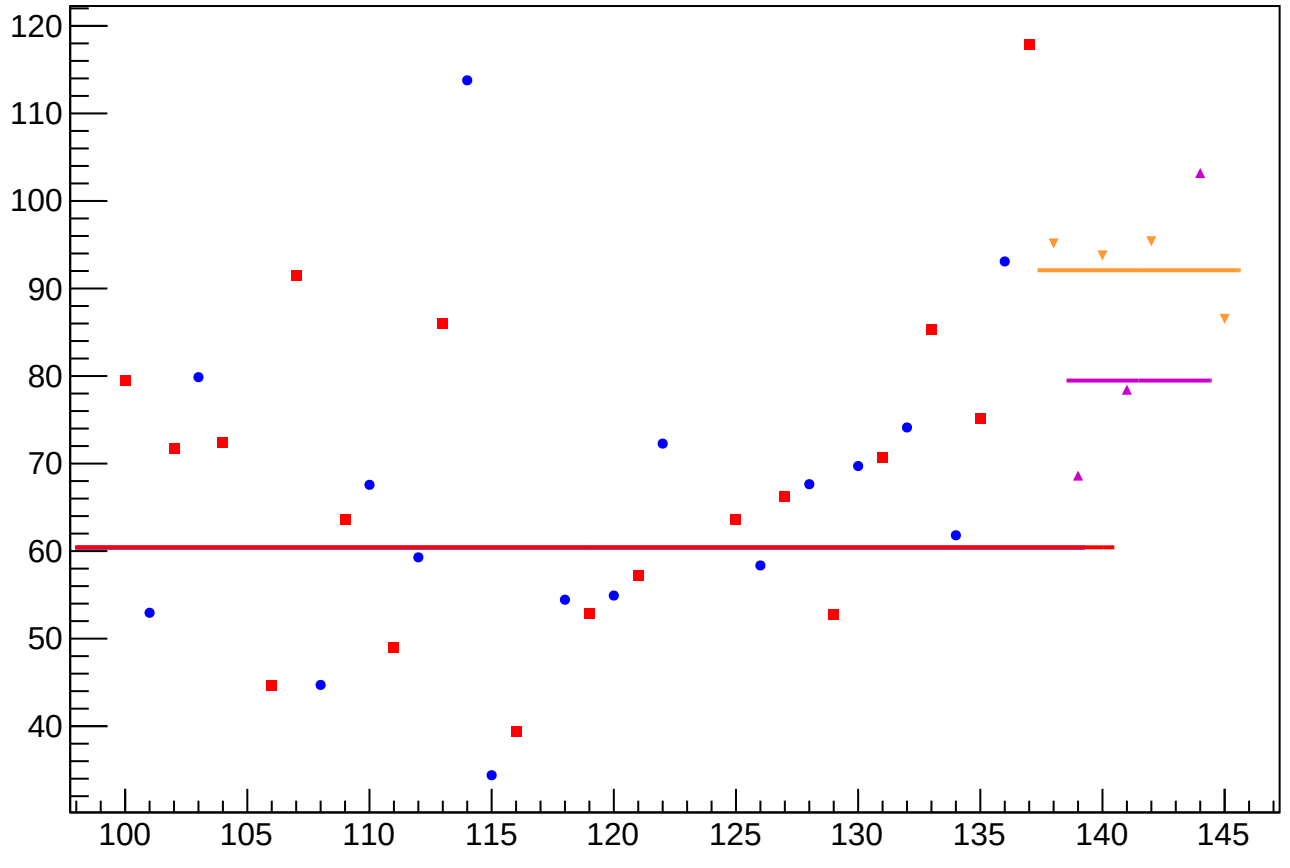
Left: 0.060+/-0.038 $\chi^2$/NDF: 11.3/6

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

In: -0.005+/-0.022 $\chi^2$/NDF:29.4/18

Out: 0.016+/-0.022 $\chi^2$/NDF:33.3/21

All: 0.005+/-0.015 $\chi^2$/NDF: 63.1/40




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

Left Out: 92.083+/-0.040 $\chi^2$/NDF:9184.8/3

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

Left In: 79.484+/-0.036 $\chi^2$/NDF:131325.6/2

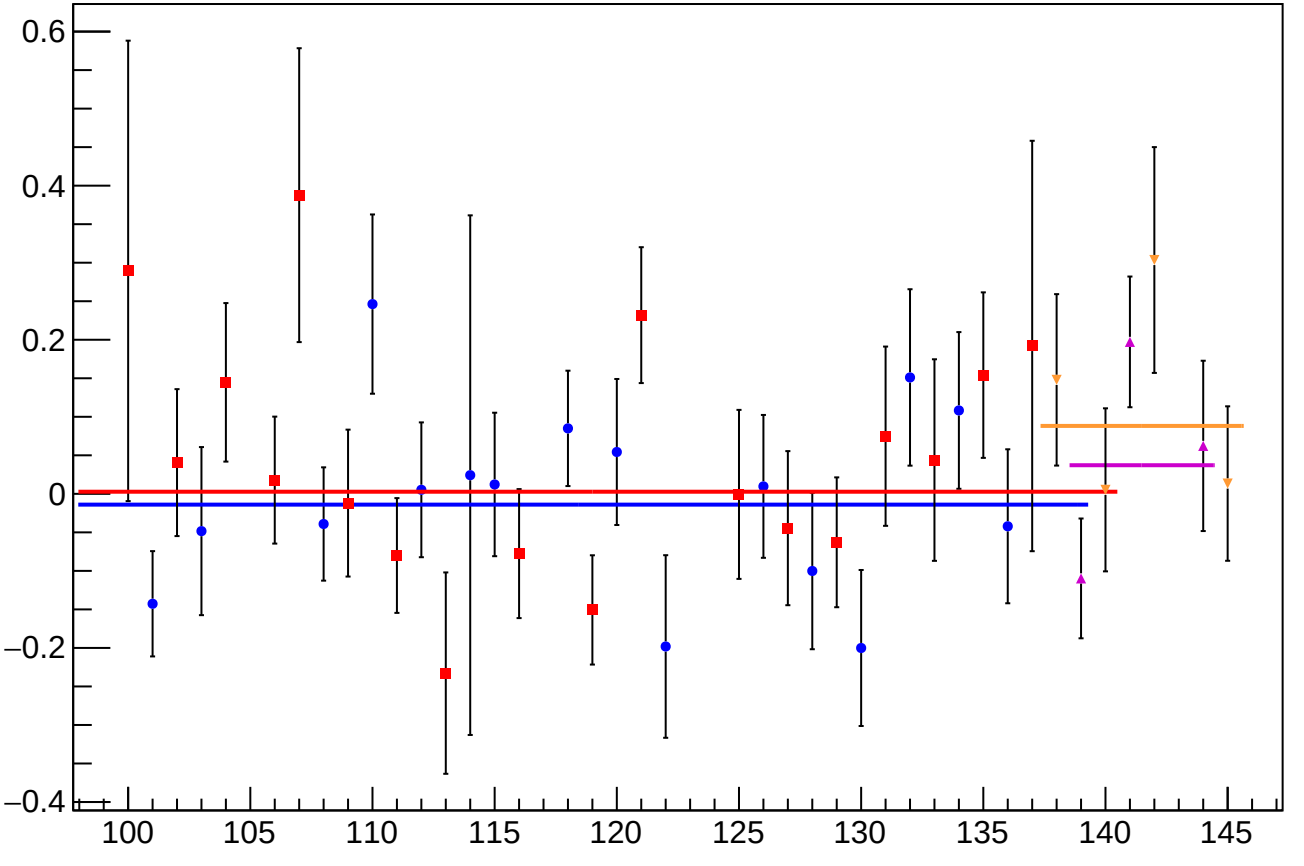
Left: 85.155+/-0.027 $\chi^2$/NDF: 195711.1/6

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

In: 63.840+/-0.015 $\chi^2$/NDF:1065159.8/18

Out: 65.239+/-0.015 $\chi^2$/NDF:1257550.6/21

All: 64.530+/-0.011 $\chi^2$/NDF: 2326848.0/40




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

Left Out: 0.088+/-0.056 $\chi^2$/NDF:3.6/3

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

Left In: 0.037+/-0.051 $\chi^2$/NDF:7.2/2

Left: 0.060+/-0.038 $\chi^2$/NDF: 11.3/6

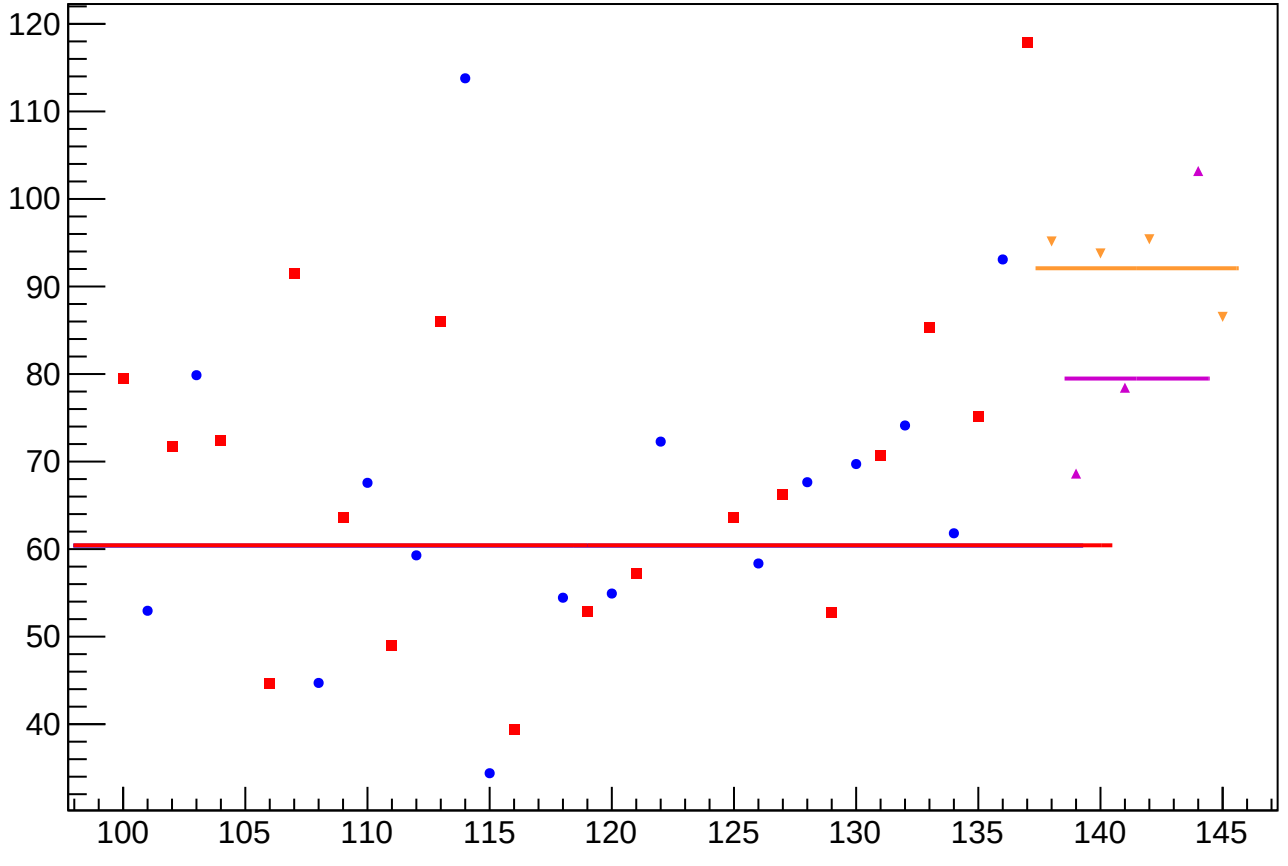
Right: -0.006+/-0.017 $\chi^2$/NDF: 49.4/33

In: -0.005+/-0.022 $\chi^2$/NDF:29.4/18

Out: 0.016+/-0.022 $\chi^2$/NDF:33.3/21

All: 0.005+/-0.015 $\chi^2$/NDF: 63.1/40

asym_us_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




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

Left Out: 92.083+/-0.040 $\chi^2$/NDF:9184.8/3

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

Left In: 79.484+/-0.036 $\chi^2$/NDF:131325.6/2

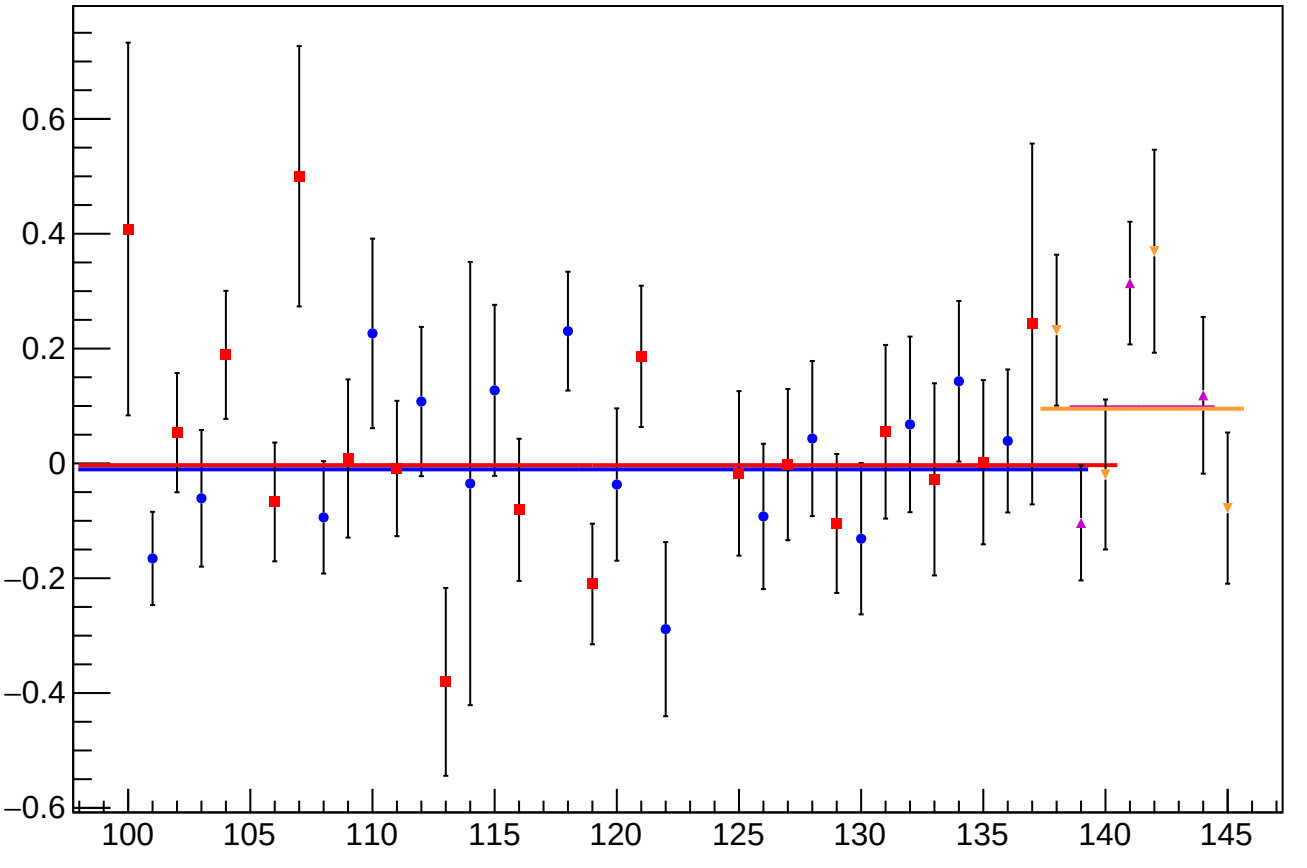
Left: 85.155+/-0.027 $\chi^2$/NDF: 195711.1/6

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

In: 63.840+/-0.015 $\chi^2$/NDF:1065159.8/18

Out: 65.239+/-0.015 $\chi^2$/NDF:1257550.6/21

All: 64.530+/-0.011 $\chi^2$/NDF: 2326848.0/40




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

Left Out: 0.095+/-0.070 $\chi^2$/NDF:6.0/3

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

Left In: 0.098+/-0.064 $\chi^2$/NDF:8.2/2

Left: 0.097+/-0.047 $\chi^2$/NDF: 14.2/6

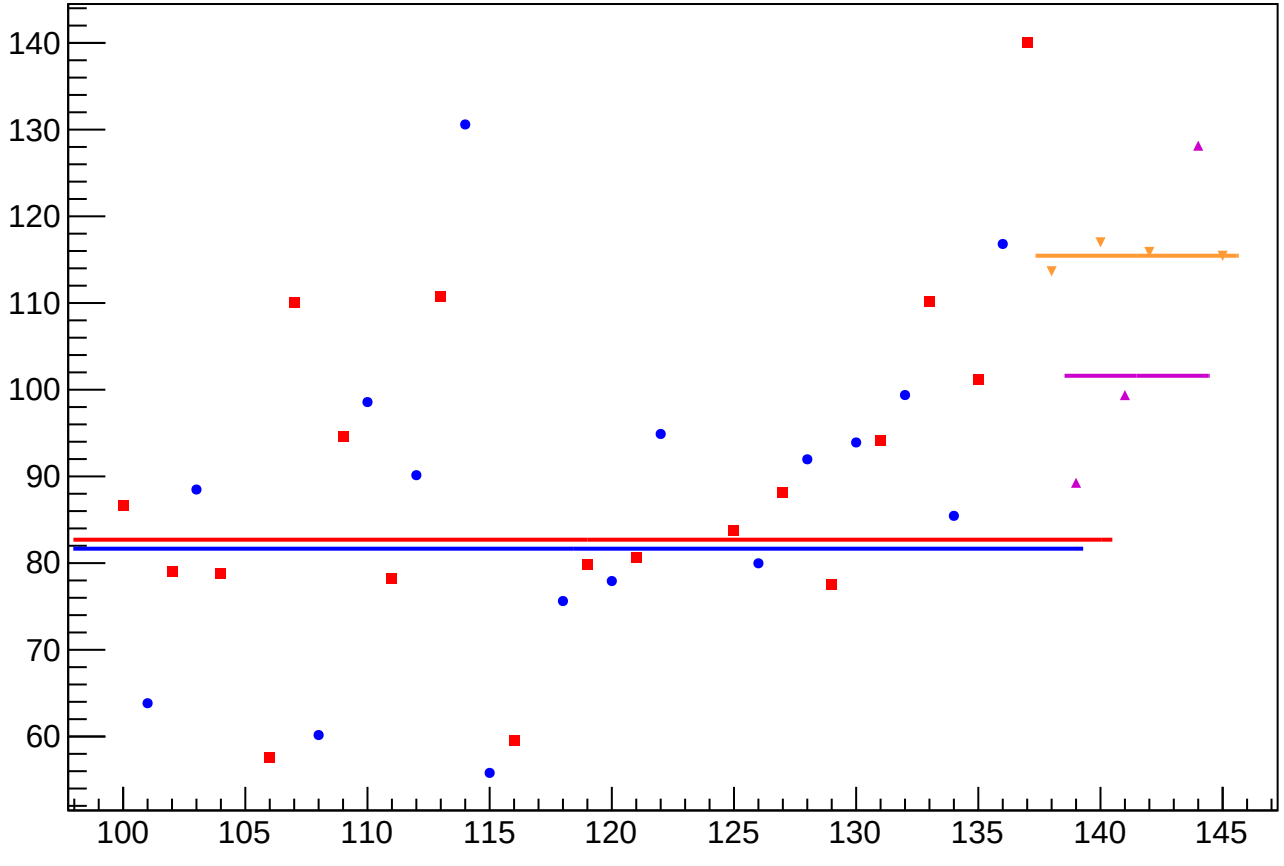
Right: -0.007+/-0.022 $\chi^2$/NDF: 43.8/33

In: 0.011+/-0.028 $\chi^2$/NDF:30.6/18

Out: 0.014+/-0.029 $\chi^2$/NDF:31.3/21

All: 0.012+/-0.020 $\chi^2$/NDF: 61.9/40

asym_us_avg_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




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

Left Out: 115.455+/-0.049 $\chi^2$/NDF:664.7/3

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

Left In: 101.608+/-0.046 $\chi^2$/NDF:106891.3/2

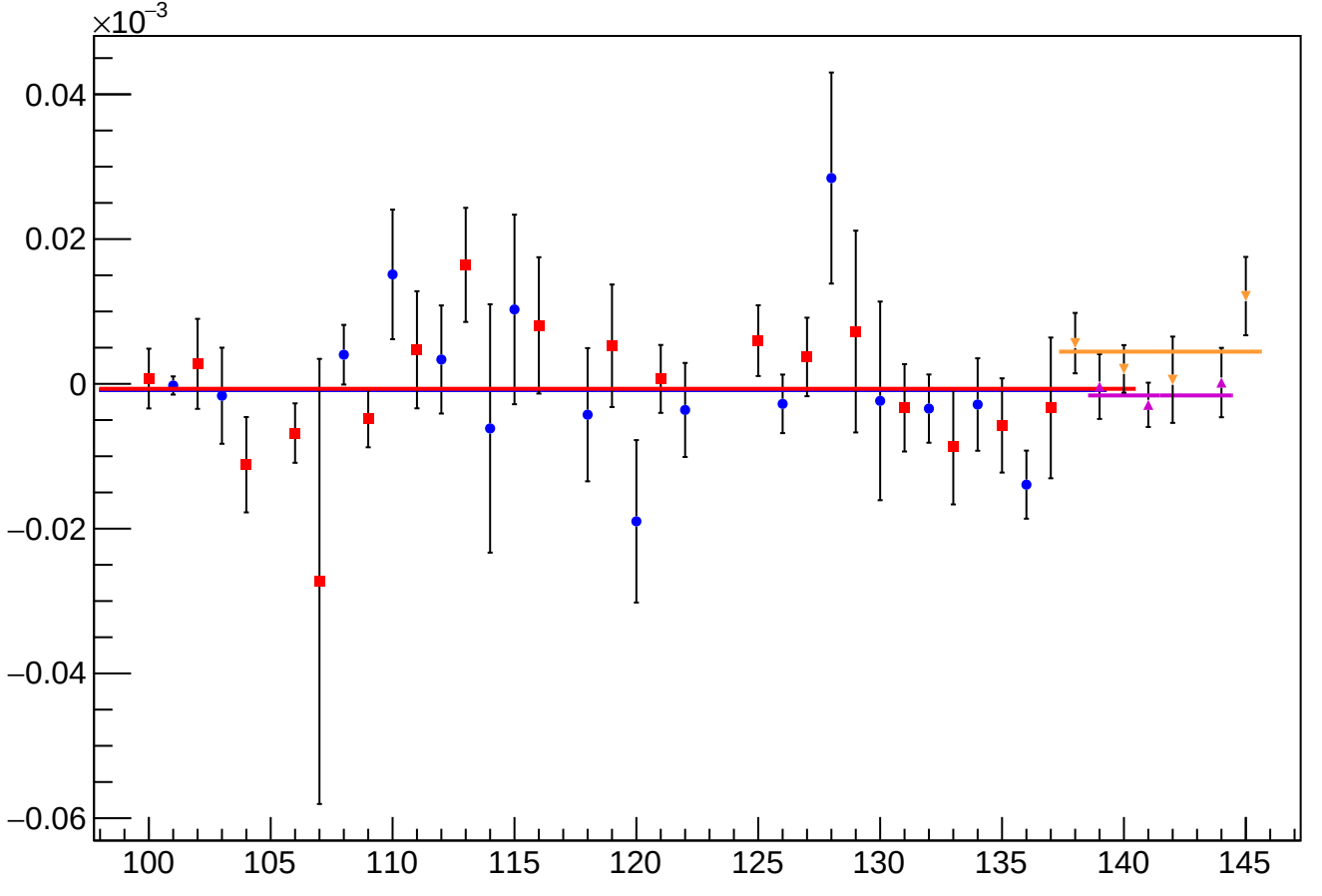
Left: 107.994+/-0.033 $\chi^2$/NDF: 150178.1/6

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

In: 85.534+/-0.020 $\chi^2$/NDF:823285.0/18

Out: 88.337+/-0.020 $\chi^2$/NDF:840194.2/21

All: 86.911+/-0.014 $\chi^2$/NDF: 1673068.0/40




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

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.0/3

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

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.4/2

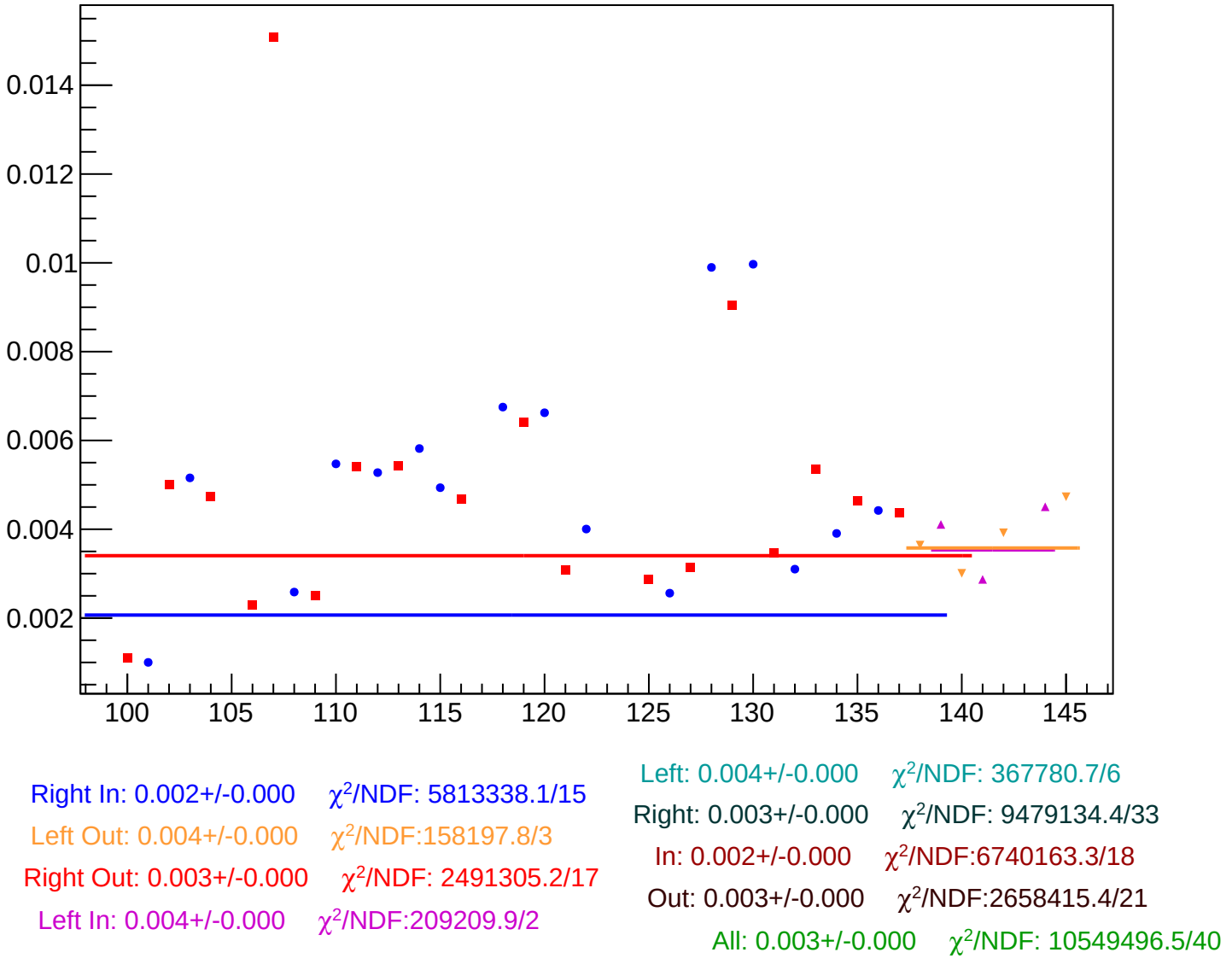
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.2/6

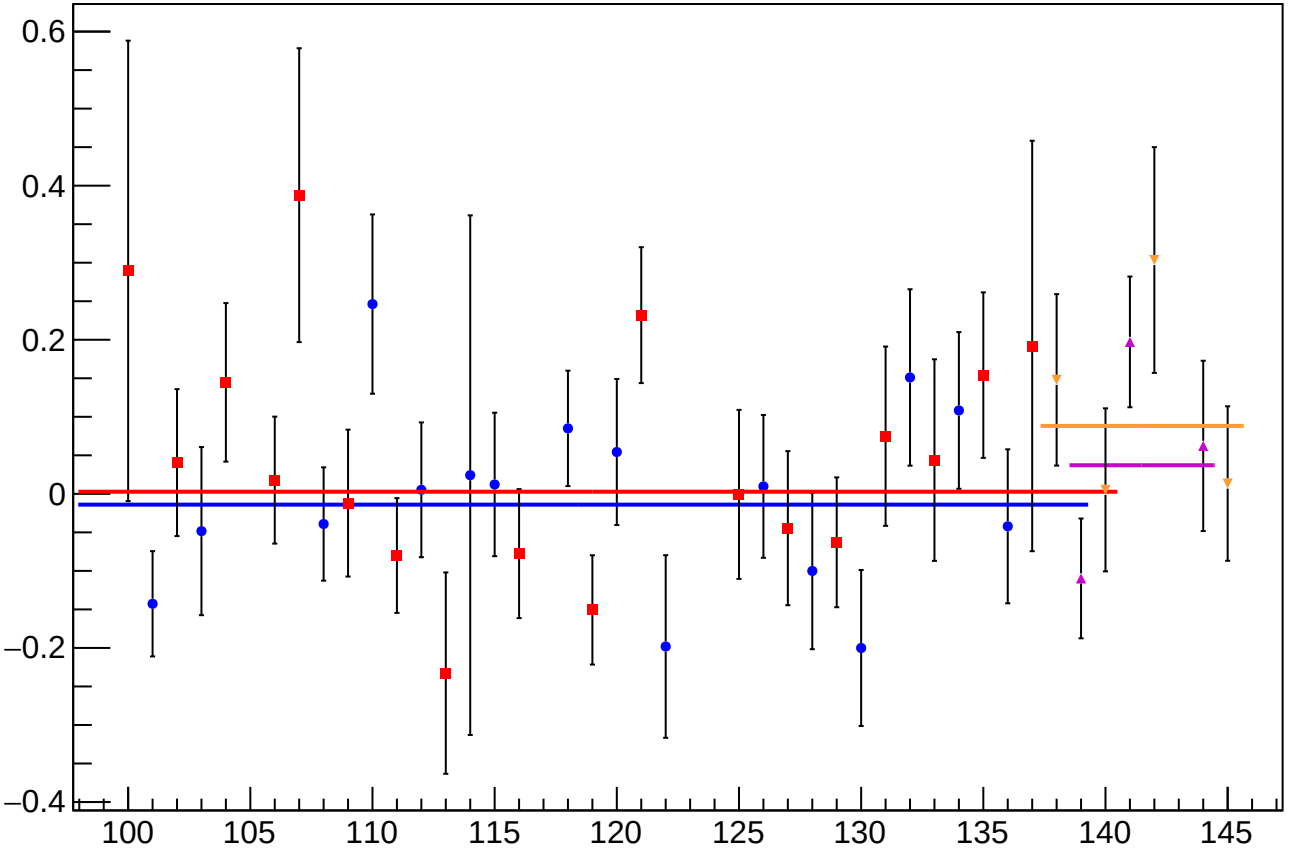
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:21.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:25.3/21

All: -0.000+/-0.000 $\chi^2$/NDF: 48.6/40


asym_us_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
100
105
110
115
120
125
130
135
140
145
Right In: 0.002+/-0.000 χ²/NDF: 5813338.1/15
Left Out: 0.004+/-0.000 χ²/NDF:158197.8/3
Right Out: 0.003+/-0.000 χ²/NDF: 2491305.2/17
Left In: 0.004+/-0.000 χ²/NDF:209209.9/2
Left: 0.004+/-0.000 χ²/NDF: 367780.7/6
Right: 0.003+/-0.000 χ²/NDF: 9479134.4/33
In: 0.002+/-0.000 χ²/NDF:6740163.3/18
Out: 0.003+/-0.000 χ²/NDF:2658415.4/21
All: 0.003+/-0.000 χ²/NDF: 10549496.5/40




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

Left Out: 0.088+/-0.056 $\chi^2$/NDF:3.6/3

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

Left In: 0.037+/-0.051 $\chi^2$/NDF:7.2/2

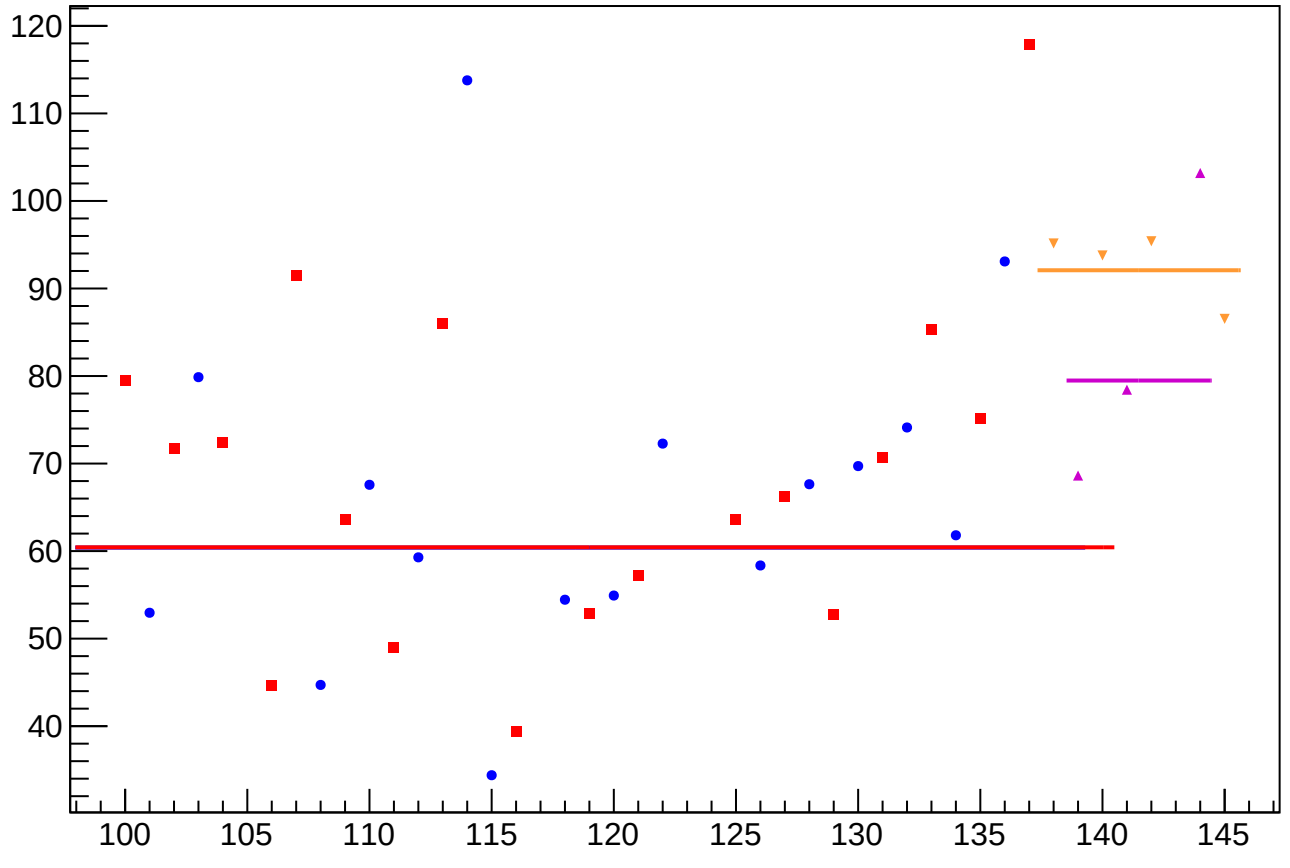
Left: 0.060+/-0.038 $\chi^2$/NDF: 11.3/6

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

In: -0.005+/-0.022 $\chi^2$/NDF:29.4/18

Out: 0.016+/-0.022 $\chi^2$/NDF:33.3/21

All: 0.005+/-0.015 $\chi^2$/NDF: 63.1/40




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

Left Out: 92.083+/-0.040 $\chi^2$/NDF:9186.5/3

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

Left In: 79.485+/-0.036 $\chi^2$/NDF:131315.2/2

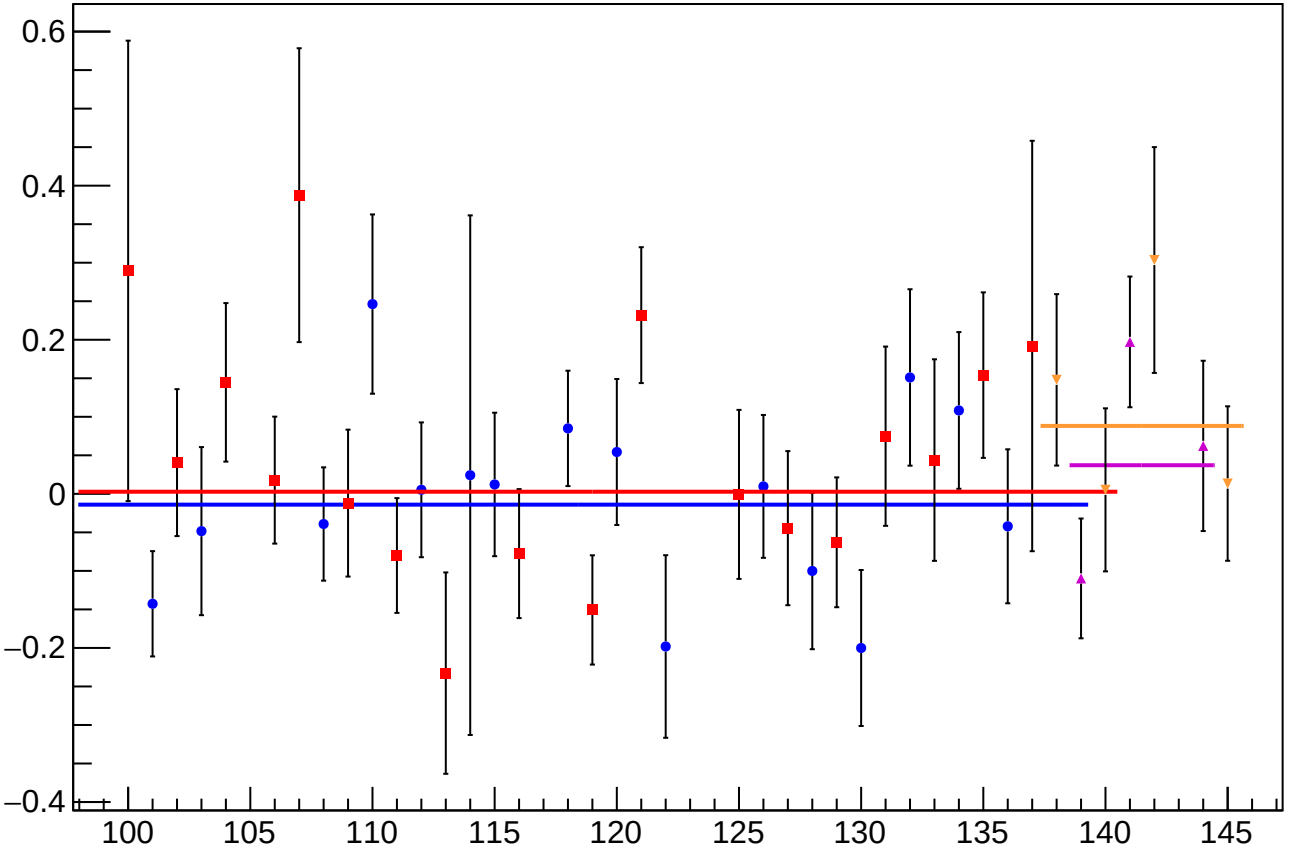
Left: 85.155+/-0.027 $\chi^2$/NDF: 195698.5/6

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

In: 63.839+/-0.015 $\chi^2$/NDF:1065206.6/18

Out: 65.238+/-0.015 $\chi^2$/NDF:1257644.3/21

All: 64.528+/-0.011 $\chi^2$/NDF: 2326986.1/40




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

Left Out: 0.088+/-0.056 $\chi^2$/NDF:3.6/3

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

Left In: 0.037+/-0.051 $\chi^2$/NDF:7.2/2

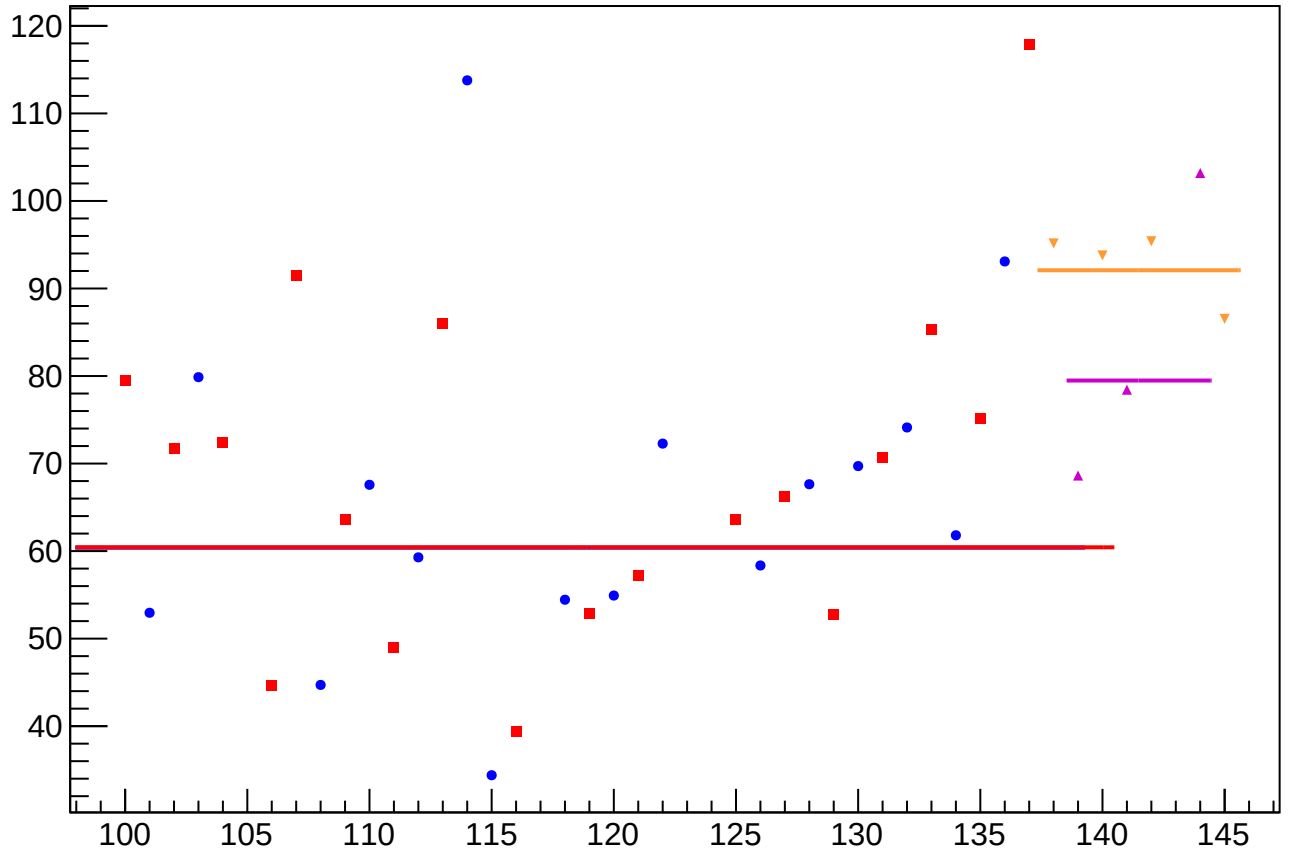
Left: 0.060+/-0.038 $\chi^2$/NDF: 11.3/6

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

In: -0.005+/-0.022 $\chi^2$/NDF:29.4/18

Out: 0.016+/-0.022 $\chi^2$/NDF:33.3/21

All: 0.005+/-0.015 $\chi^2$/NDF: 63.1/40




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

Left Out: 92.083+/-0.040 $\chi^2$/NDF:9186.5/3

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

Left In: 79.485+/-0.036 $\chi^2$/NDF:131315.2/2

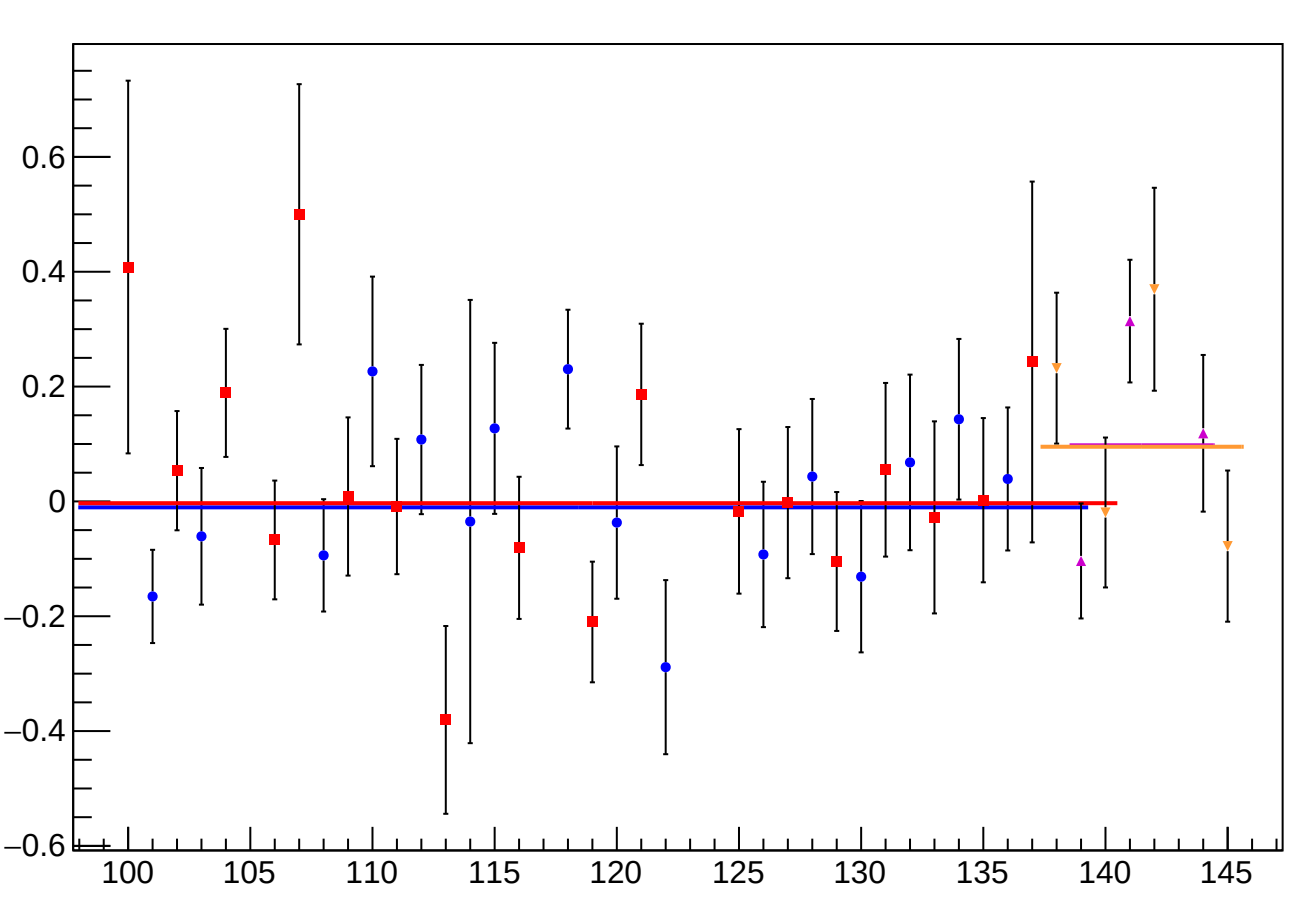
Left: 85.155+/-0.027 $\chi^2$/NDF: 195698.5/6

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

In: 63.839+/-0.015 $\chi^2$/NDF:1065206.6/18

Out: 65.238+/-0.015 $\chi^2$/NDF:1257644.3/21

All: 64.528+/-0.011 $\chi^2$/NDF: 2326986.1/40




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

Left Out: 0.095+/-0.070 $\chi^2$/NDF:6.0/3

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

Left In: 0.098+/-0.064 $\chi^2$/NDF:8.2/2

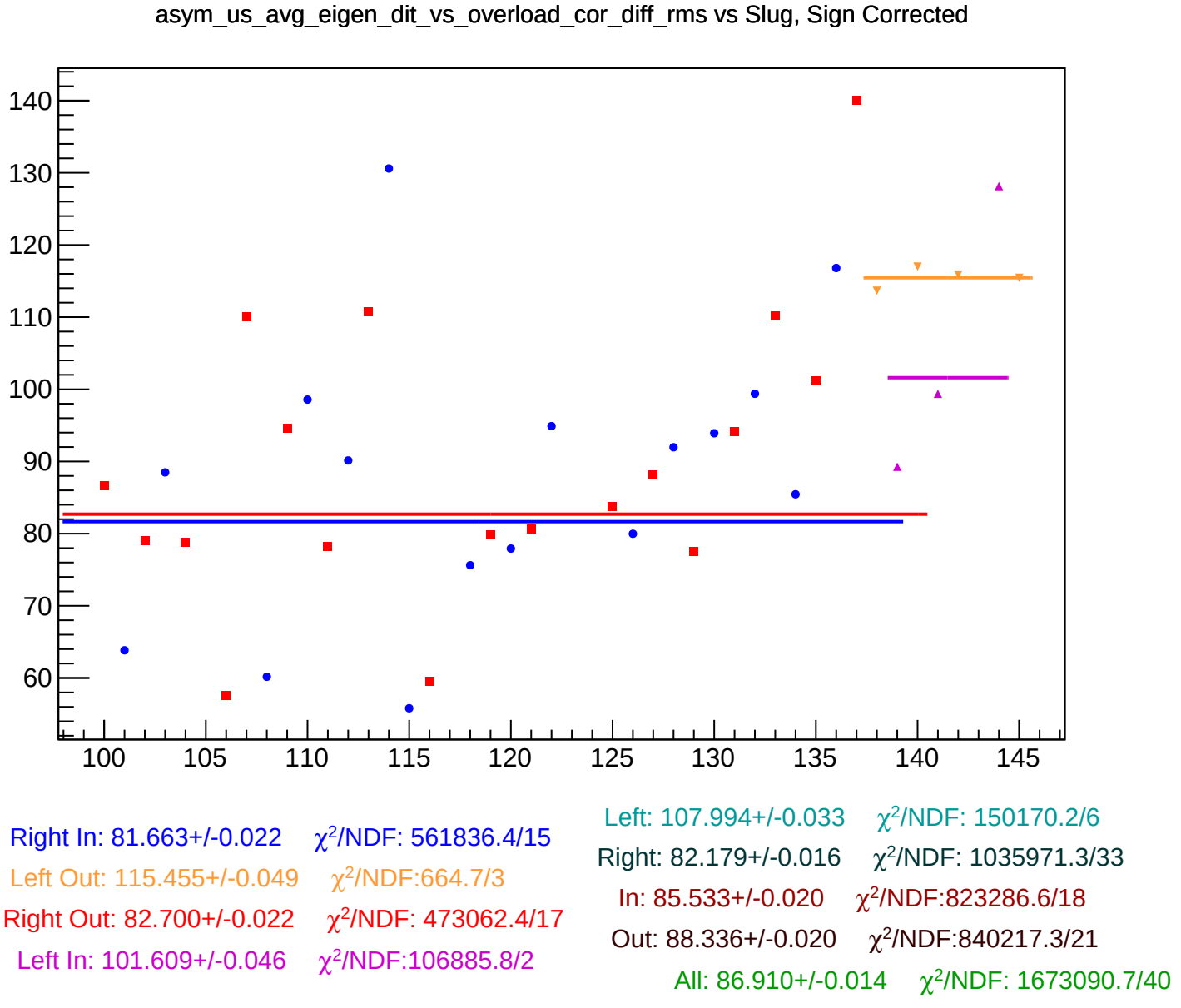
Left: 0.097+/-0.047 $\chi^2$/NDF: 14.2/6

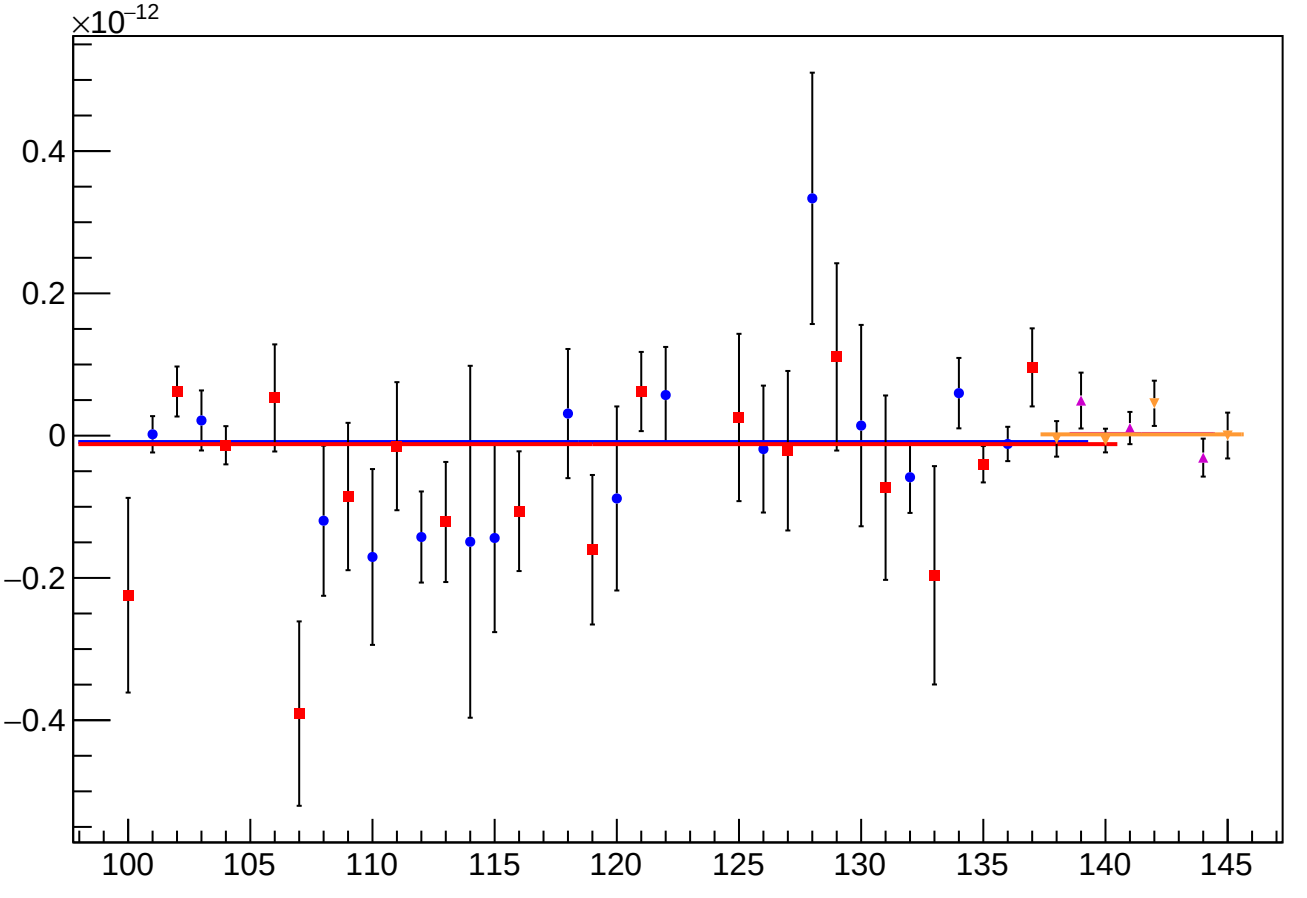
Right: -0.007+/-0.022 $\chi^2$/NDF: 43.8/33

In: 0.011+/-0.028 $\chi^2$/NDF:30.6/18

Out: 0.014+/-0.029 $\chi^2$/NDF:31.3/21

All: 0.012+/-0.020 $\chi^2$/NDF: 61.9/40


asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected
140
130
120
110
100
90
80
70
60
100
105
110
115
120
125
130
135
140
145
Right In: 81.663+/-0.022 χ²/NDF: 561836.4/15
Left Out: 115.455+/-0.049 χ²/NDF:664.7/3
Right Out: 82.700+/-0.022 χ²/NDF: 473062.4/17
Left In: 101.609+/-0.046 χ²/NDF:106885.8/2
Left: 107.994+/-0.033 χ²/NDF: 150170.2/6
Right: 82.179+/-0.016 χ²/NDF: 1035971.3/33
In: 85.533+/-0.020 χ²/NDF:823286.6/18
Out: 88.336+/-0.020 χ²/NDF:840217.3/21
All: 86.910+/-0.014 χ²/NDF: 1673090.7/40




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

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.2/3

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

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.1/2

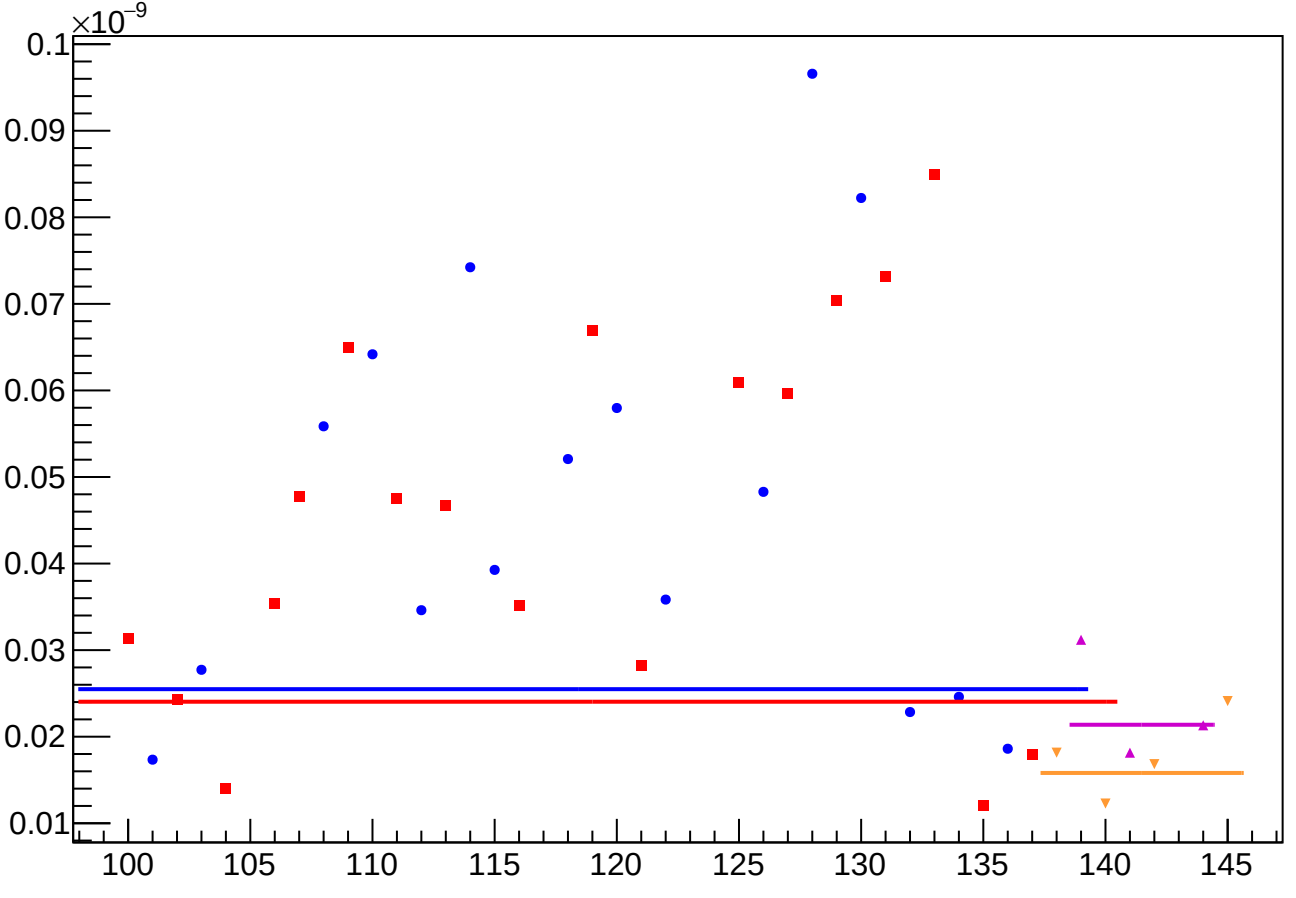
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.3/6

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

In: -0.000+/-0.000 $\chi^2$/NDF:20.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:33.9/21

All: -0.000+/-0.000 $\chi^2$/NDF: 54.7/40




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

Left Out: 0.000+/-0.000 $\chi^2$/NDF:242703.4/3

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

Left In: 0.000+/-0.000 $\chi^2$/NDF:165571.5/2

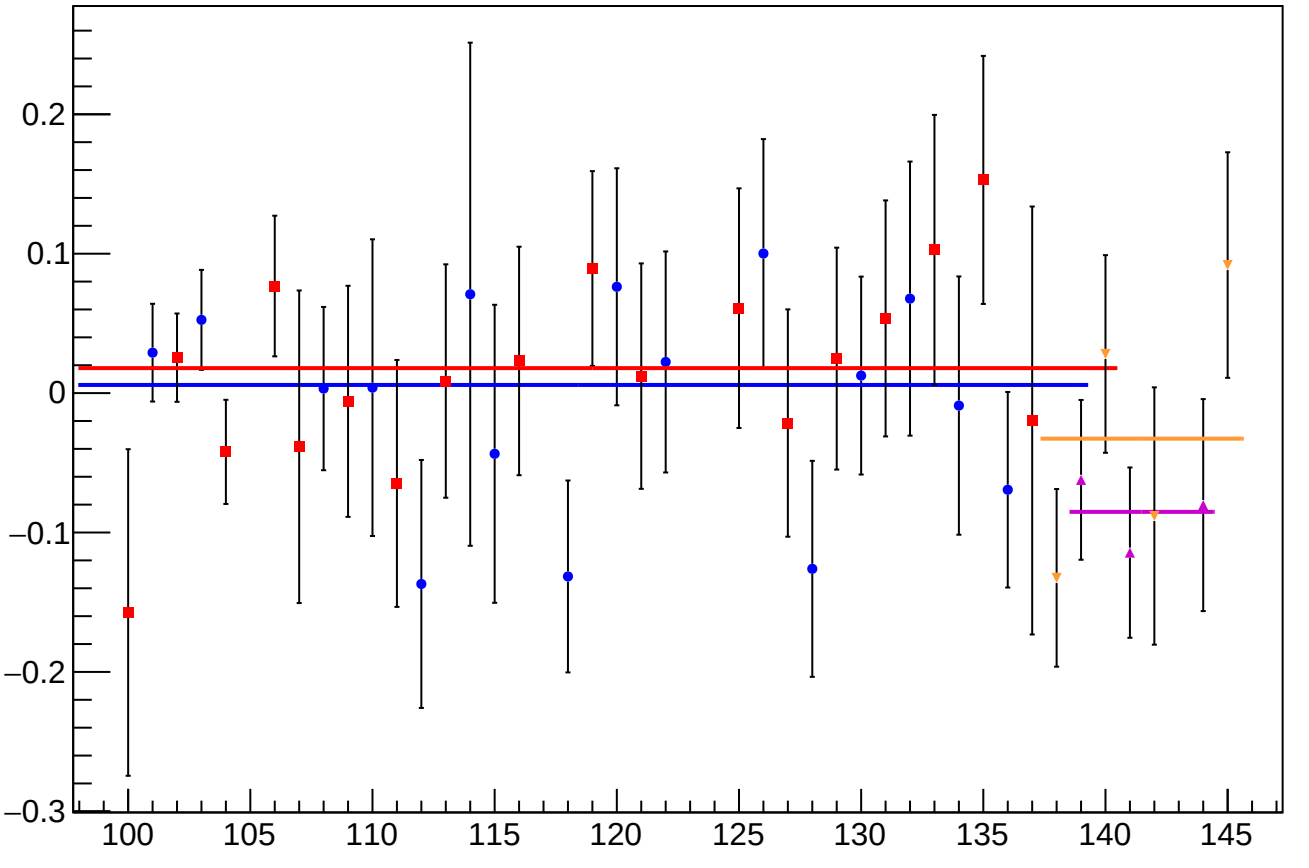
Left: 0.000+/-0.000 $\chi^2$/NDF: 567378.5/6

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

In: 0.000+/-0.000 $\chi^2$/NDF:2244897.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3751647.3/21

All: 0.000+/-0.000 $\chi^2$/NDF: 6208177.3/40




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

Left Out: -0.033+/-0.037 $\chi^2$/NDF:5.9/3

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

Left In: -0.085+/-0.037 $\chi^2$/NDF:0.4/2

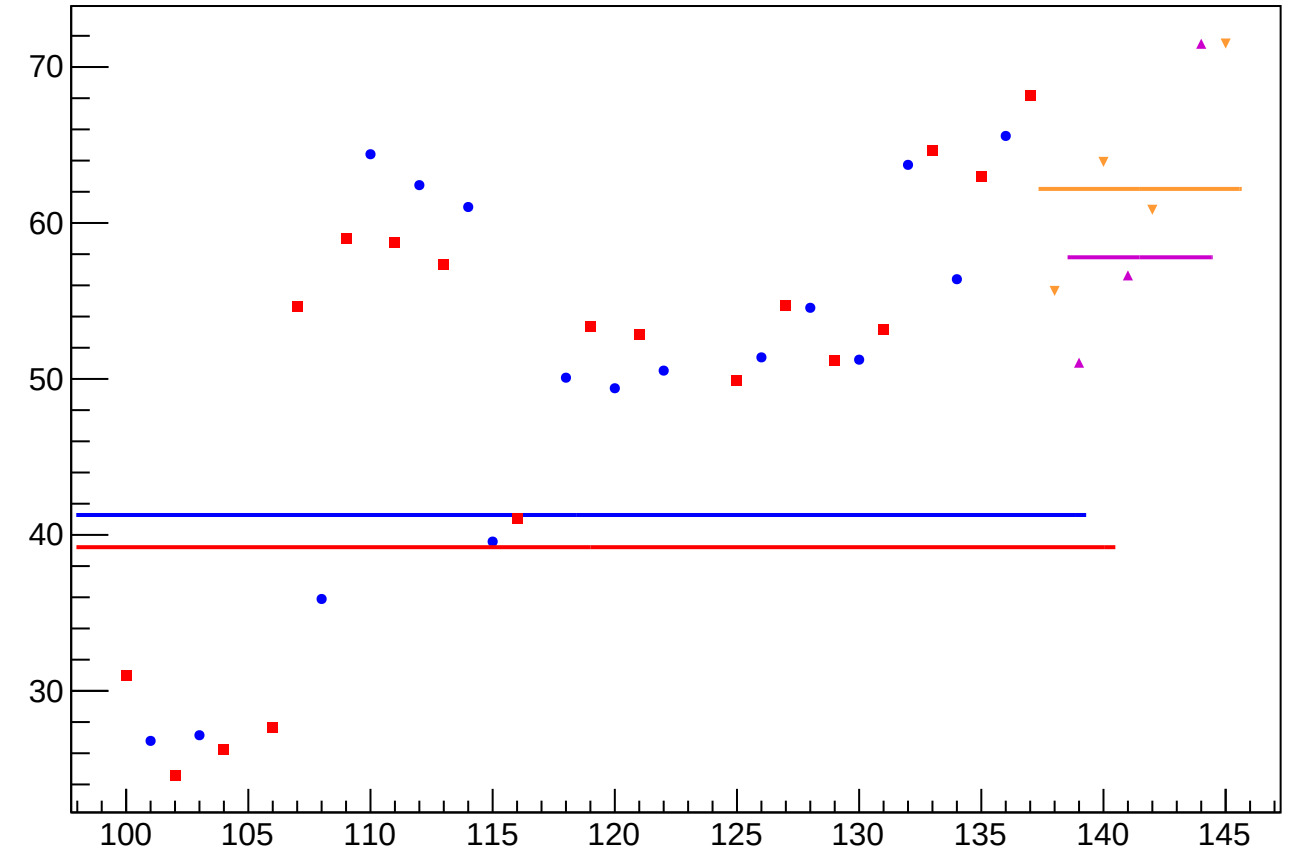
Left: -0.059+/-0.026 $\chi^2$/NDF: 7.3/6

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

In: -0.010+/-0.015 $\chi^2$/NDF:21.1/18

Out: 0.010+/-0.015 $\chi^2$/NDF:19.8/21

All: 0.001+/-0.010 $\chi^2$/NDF: 41.8/40




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

Left Out: 62.184+/-0.026 $\chi^2$/NDF:49237.8/3

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

Left In: 57.800+/-0.026 $\chi^2$/NDF:93385.6/2

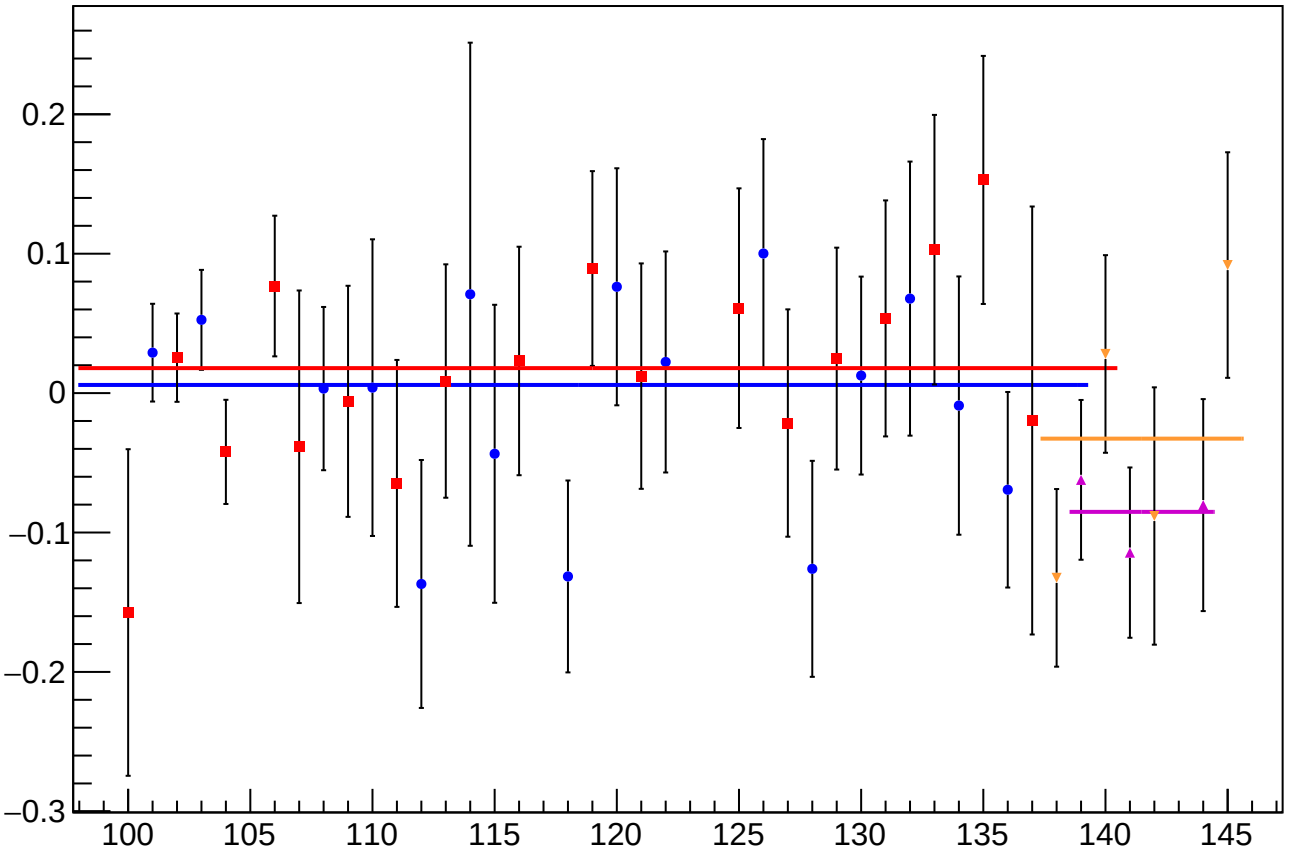
Left: 59.947+/-0.018 $\chi^2$/NDF: 156659.1/6

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

In: 44.072+/-0.011 $\chi^2$/NDF:1936851.0/18

Out: 42.669+/-0.010 $\chi^2$/NDF:2510713.8/21

All: 43.344+/-0.007 $\chi^2$/NDF: 4456568.3/40




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

Left Out: -0.033+/-0.037 $\chi^2$/NDF:5.9/3

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

Left In: -0.085+/-0.037 $\chi^2$/NDF:0.4/2

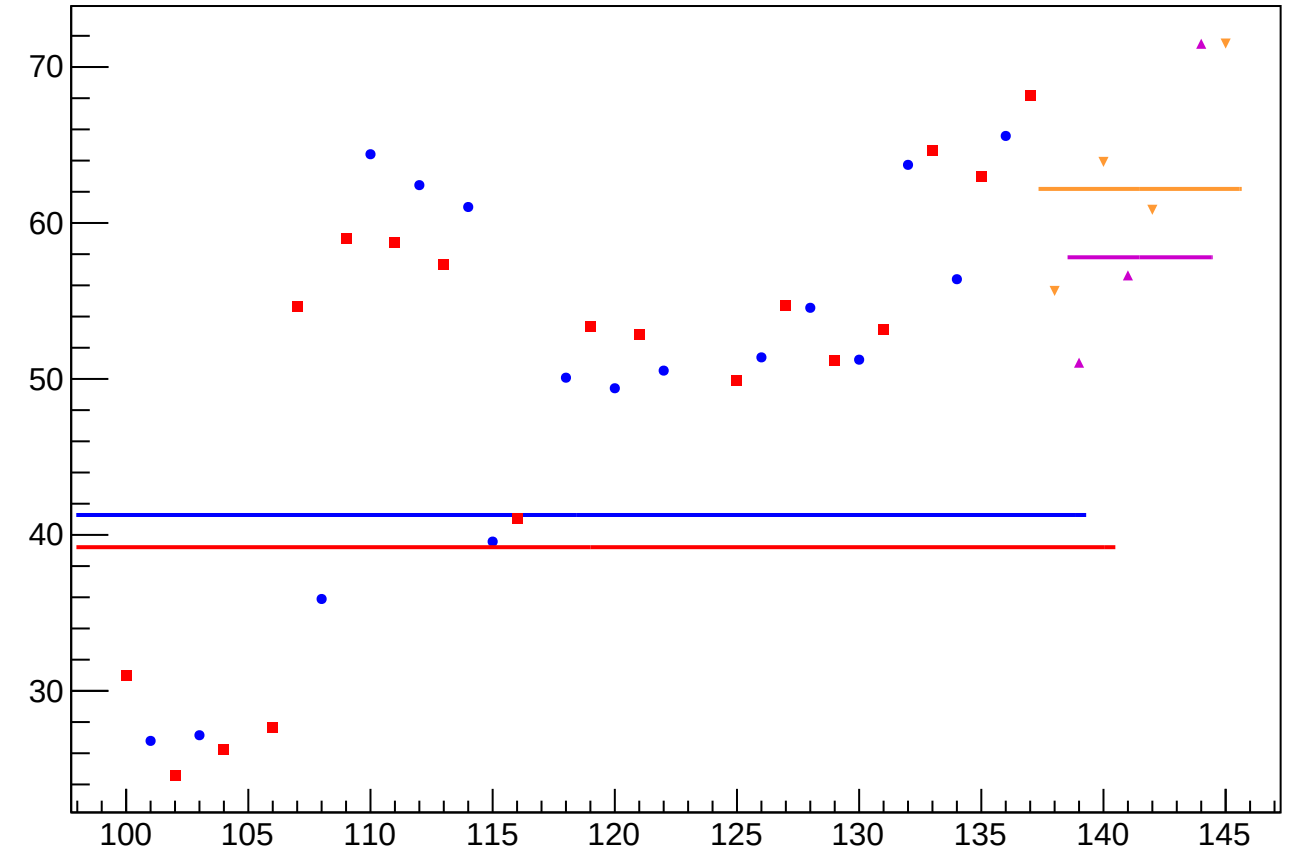
Left: -0.059+/-0.026 $\chi^2$/NDF: 7.3/6

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

In: -0.010+/-0.015 $\chi^2$/NDF:21.1/18

Out: 0.010+/-0.015 $\chi^2$/NDF:19.8/21

All: 0.001+/-0.010 $\chi^2$/NDF: 41.8/40




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

Left Out: 62.184+/-0.026 $\chi^2$/NDF:49237.8/3

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

Left In: 57.800+/-0.026 $\chi^2$/NDF:93385.6/2

Left: 59.947+/-0.018 $\chi^2$/NDF: 156659.1/6

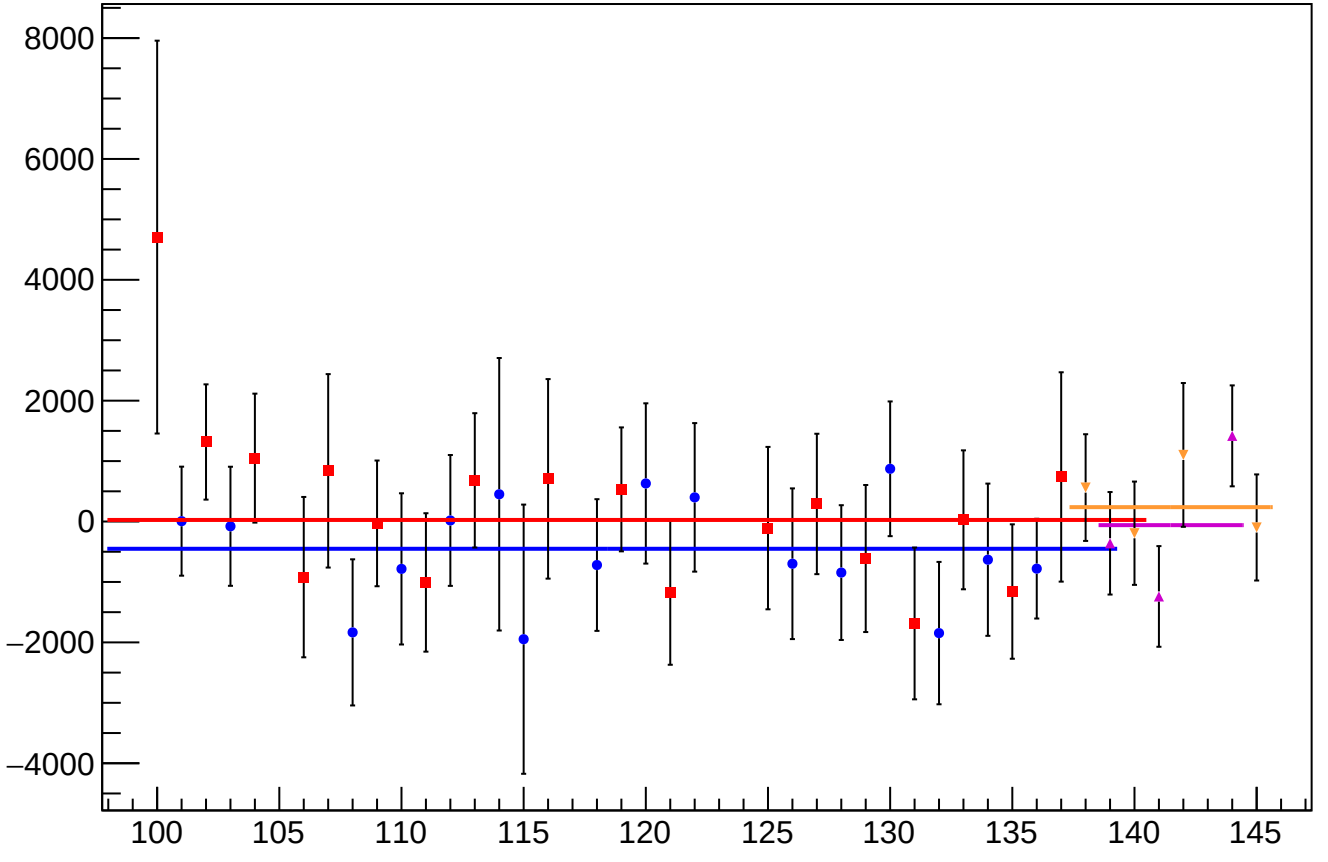
Right: 40.194+/-0.008 $\chi^2$/NDF: 3341542.4/33

In: 44.072+/-0.011 $\chi^2$/NDF:1936851.0/18

Out: 42.669+/-0.010 $\chi^2$/NDF:2510713.8/21

All: 43.344+/-0.007 $\chi^2$/NDF: 4456568.3/40

# reg_asym_us_dd_mean vs Slug, Sign Corrected




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

Left Out: 237.846+/-463.442 $\chi^2$/NDF:1.1/3

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

Left In: -59.758+/-484.229 $\chi^2$/NDF:5.3/2

Left: 95.569+/-334.811 $\chi^2$/NDF: 6.5/6

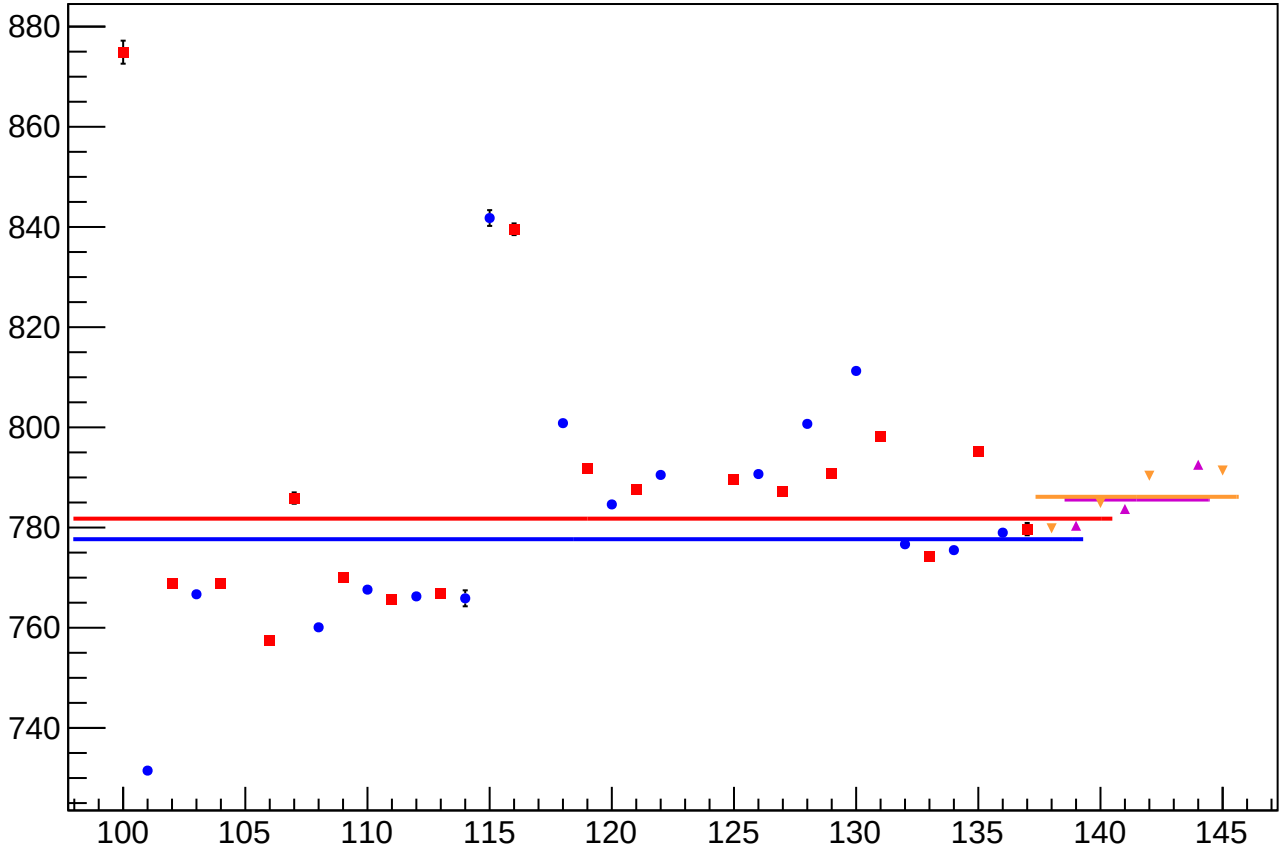
Right: -211.707+/-204.010 $\chi^2$/NDF: 20.0/33

In: -348.234+/-248.131 $\chi^2$/NDF:12.7/18

Out: 85.114+/-244.663 $\chi^2$/NDF:12.9/21

All: -128.510+/-174.216 $\chi^2$/NDF: 27.1/40

# reg_asym_us_dd_rms vs Slug, Sign Corrected




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

Left Out: 786.140+/-0.328 $\chi^2$/NDF:202.4/3

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

Left In: 785.589+/-0.342 $\chi^2$/NDF:224.4/2

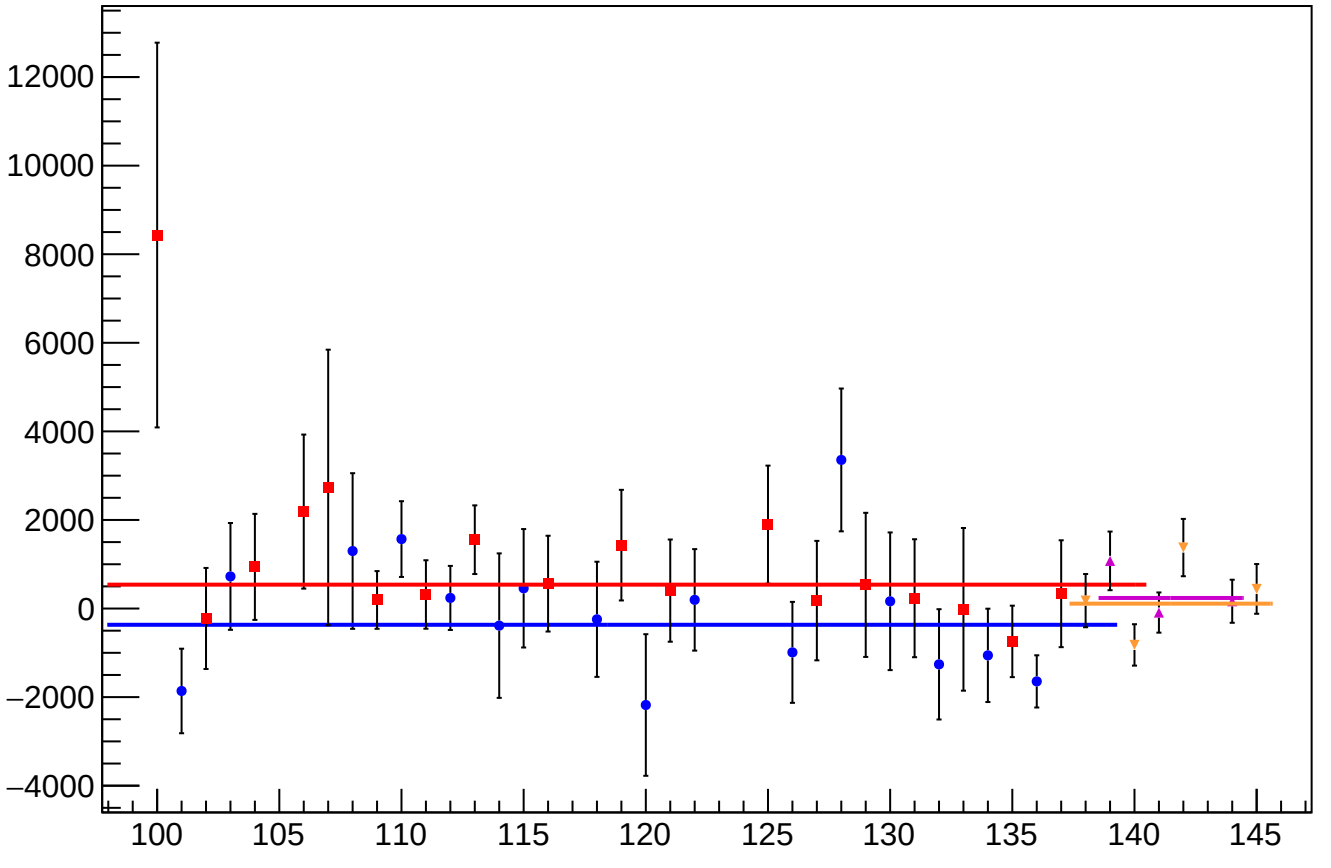
Left: 785.876+/-0.237 $\chi^2$/NDF: 428.1/6

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

In: 779.753+/-0.175 $\chi^2$/NDF:12673.8/18

Out: 782.993+/-0.173 $\chi^2$/NDF:7956.6/21

All: 781.395+/-0.123 $\chi^2$/NDF: 20803.3/40




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

Left Out: 110.275+/-278.291 $\chi^2$/NDF:8.2/3

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

Left In: 238.580+/-296.586 $\chi^2$/NDF:2.2/2

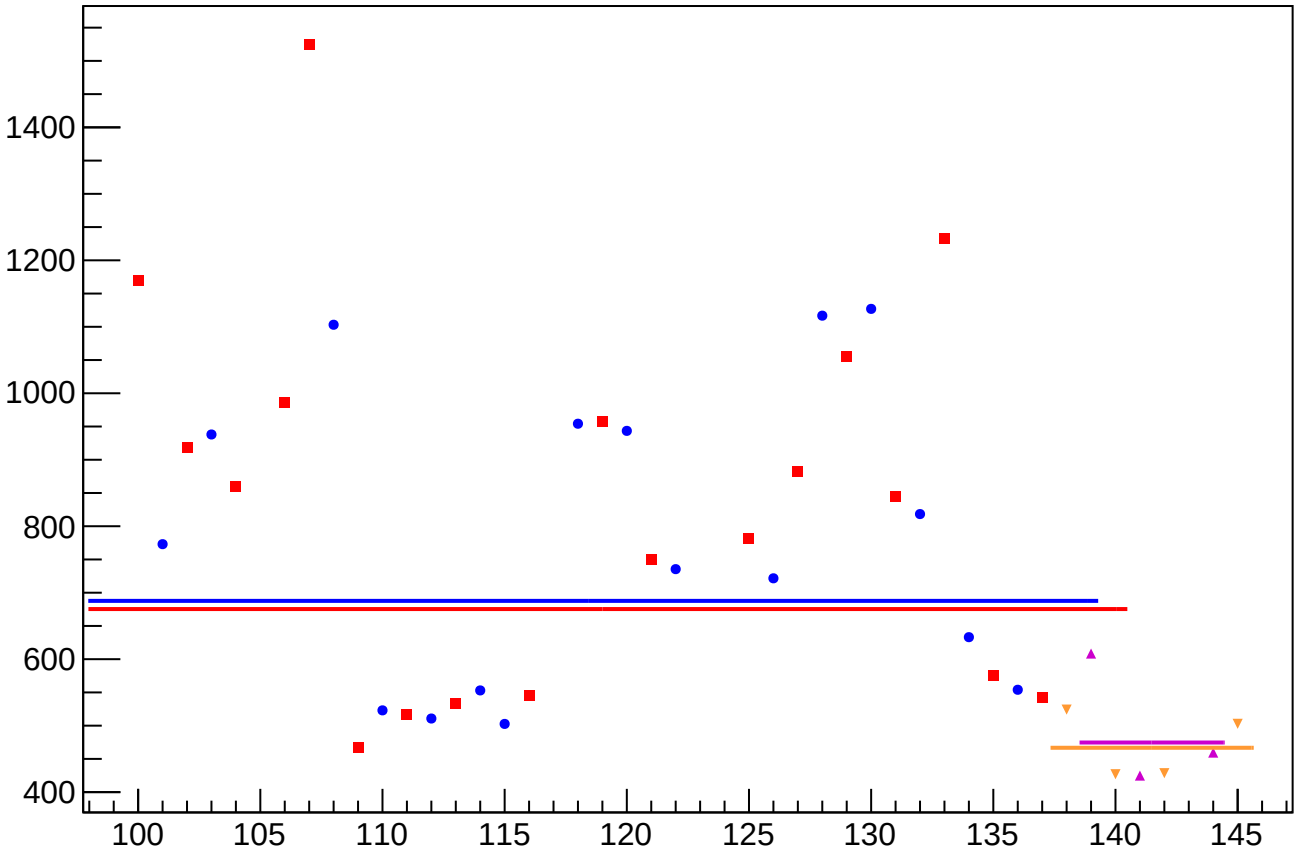
Left: 170.348+/-202.941 $\chi^2$/NDF: 10.4/6

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

In: -96.256+/-198.311 $\chi^2$/NDF:27.8/18

Out: 336.755+/-191.111 $\chi^2$/NDF:21.1/21

All: 128.253+/-137.611 $\chi^2$/NDF: 51.3/40




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

Left Out: 466.740+/-0.197 $\chi^2$/NDF:48009.1/3

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

Left In: 474.644+/-0.210 $\chi^2$/NDF:107769.9/2

Left: 470.441+/-0.144 $\chi^2$/NDF: 156534.4/6

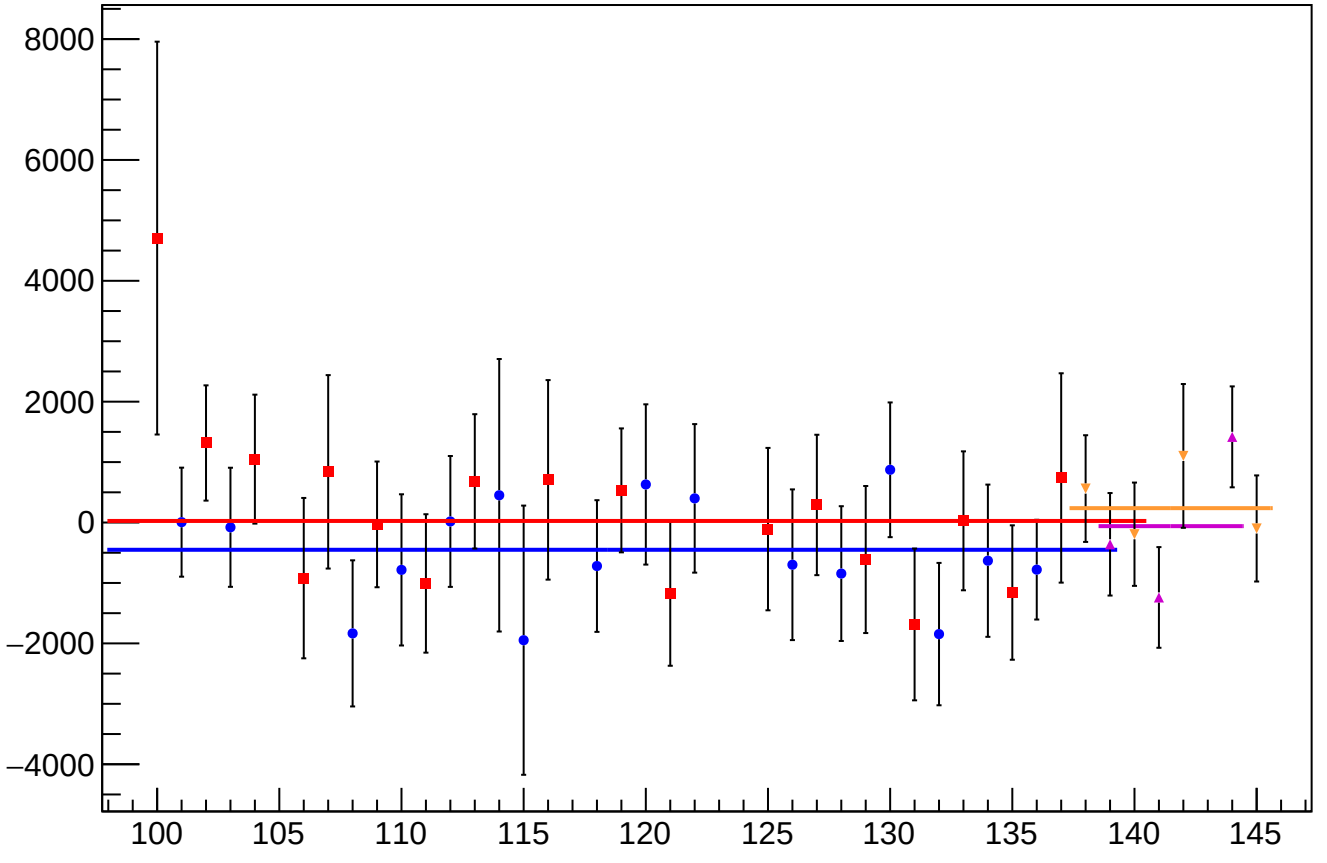
Right: 681.475+/-0.132 $\chi^2$/NDF: 2347071.2/33

In: 592.454+/-0.140 $\chi^2$/NDF:1710417.3/18

Out: 577.002+/-0.135 $\chi^2$/NDF:1955190.3/21

All: 584.442+/-0.097 $\chi^2$/NDF: 3671903.9/40

# cor_asym_us_dd_mean vs Slug, Sign Corrected




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

Left Out: 237.846+/-463.442 $\chi^2$/NDF:1.1/3

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

Left In: -59.758+/-484.229 $\chi^2$/NDF:5.3/2

Left: 95.569+/-334.811 $\chi^2$/NDF: 6.5/6

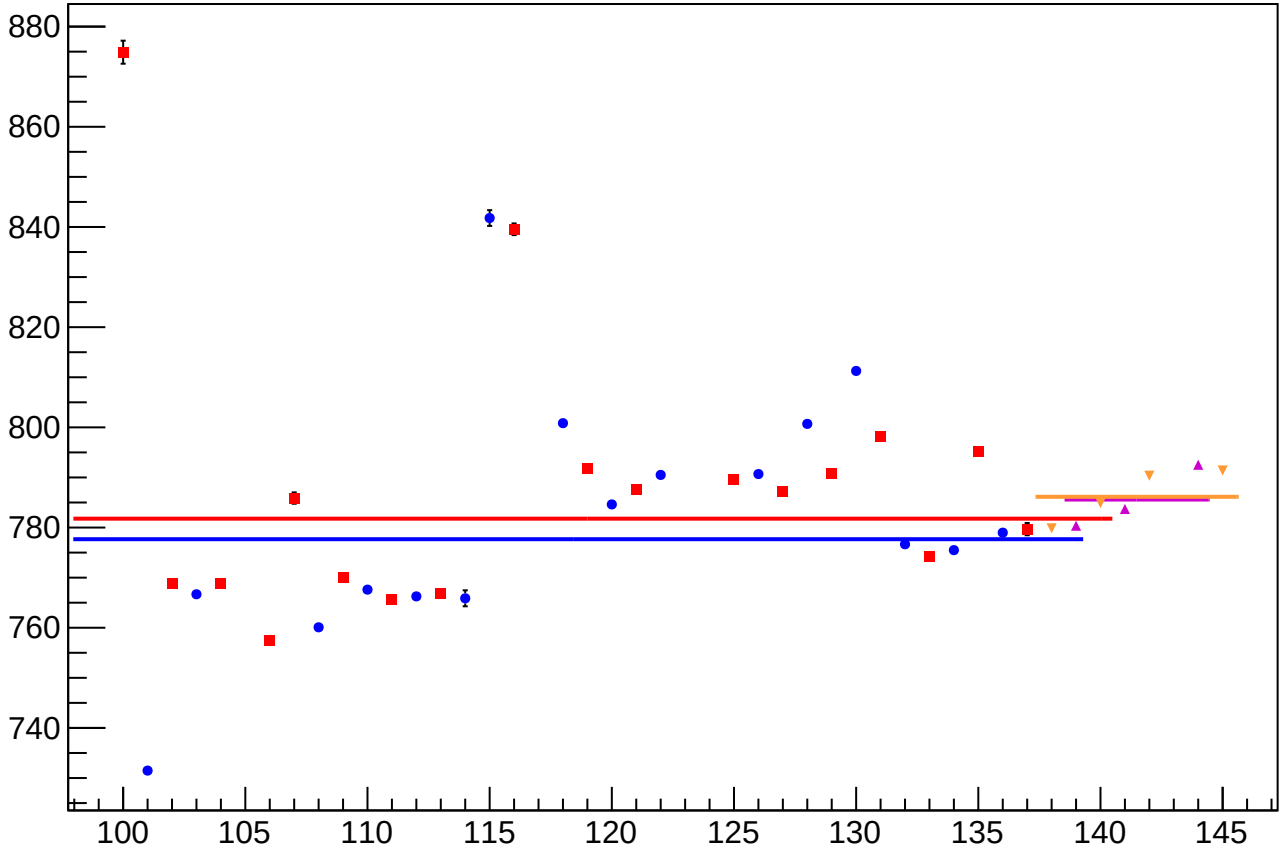
Right: -211.707+/-204.010 $\chi^2$/NDF: 20.0/33

In: -348.234+/-248.131 $\chi^2$/NDF:12.7/18

Out: 85.114+/-244.663 $\chi^2$/NDF:12.9/21

All: -128.510+/-174.216 $\chi^2$/NDF: 27.1/40

# cor_asym_us_dd_rms vs Slug, Sign Corrected




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

Left Out: 786.140+/-0.328 $\chi^2$/NDF:202.4/3

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

Left In: 785.589+/-0.342 $\chi^2$/NDF:224.4/2

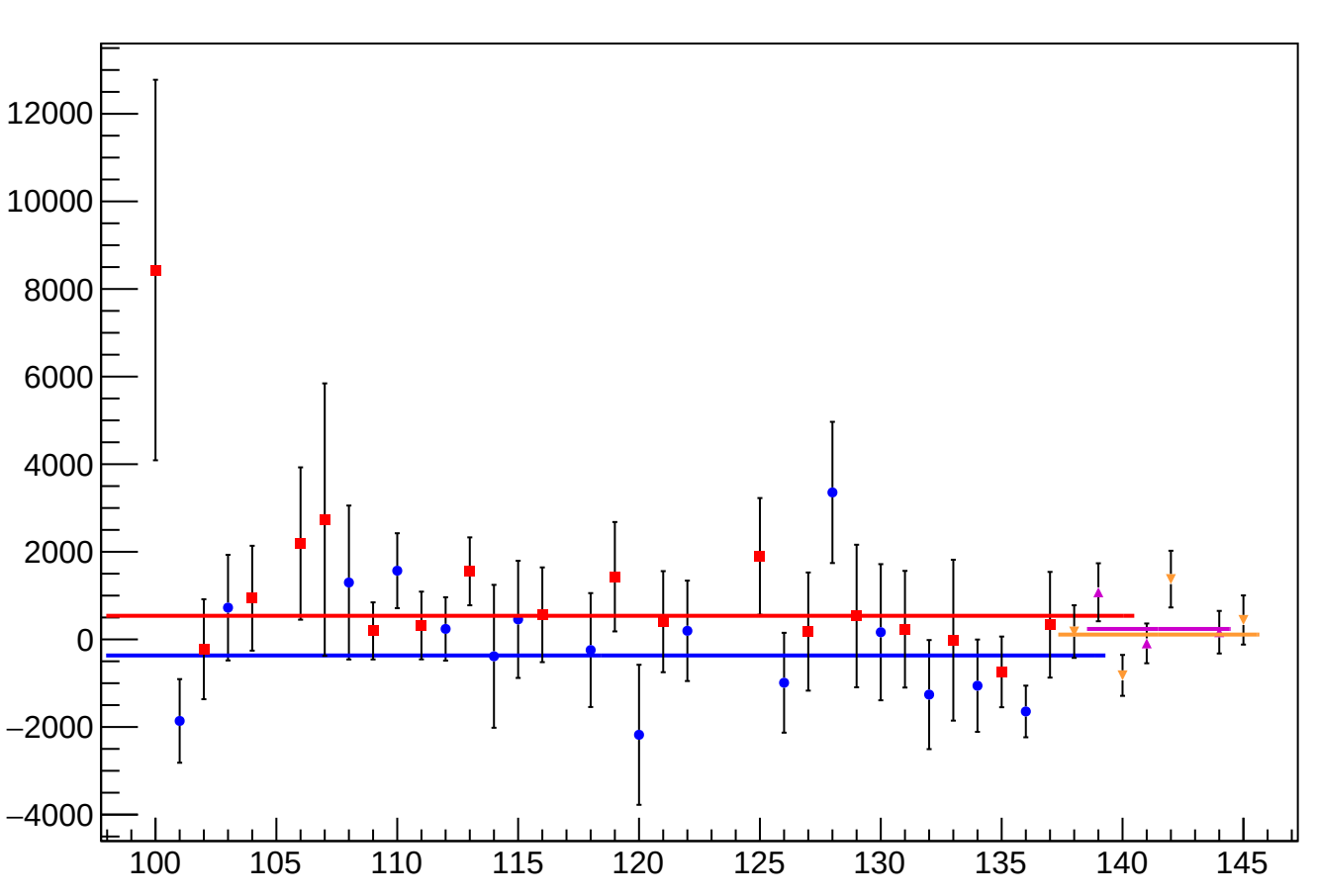
Left: 785.876+/-0.237 $\chi^2$/NDF: 428.1/6

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

In: 779.753+/-0.175 $\chi^2$/NDF:12673.8/18

Out: 782.993+/-0.173 $\chi^2$/NDF:7956.6/21

All: 781.395+/-0.123 $\chi^2$/NDF: 20803.3/40




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

Left Out: 110.275+/-278.291 $\chi^2$/NDF:8.2/3

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

Left In: 238.580+/-296.586 $\chi^2$/NDF:2.2/2

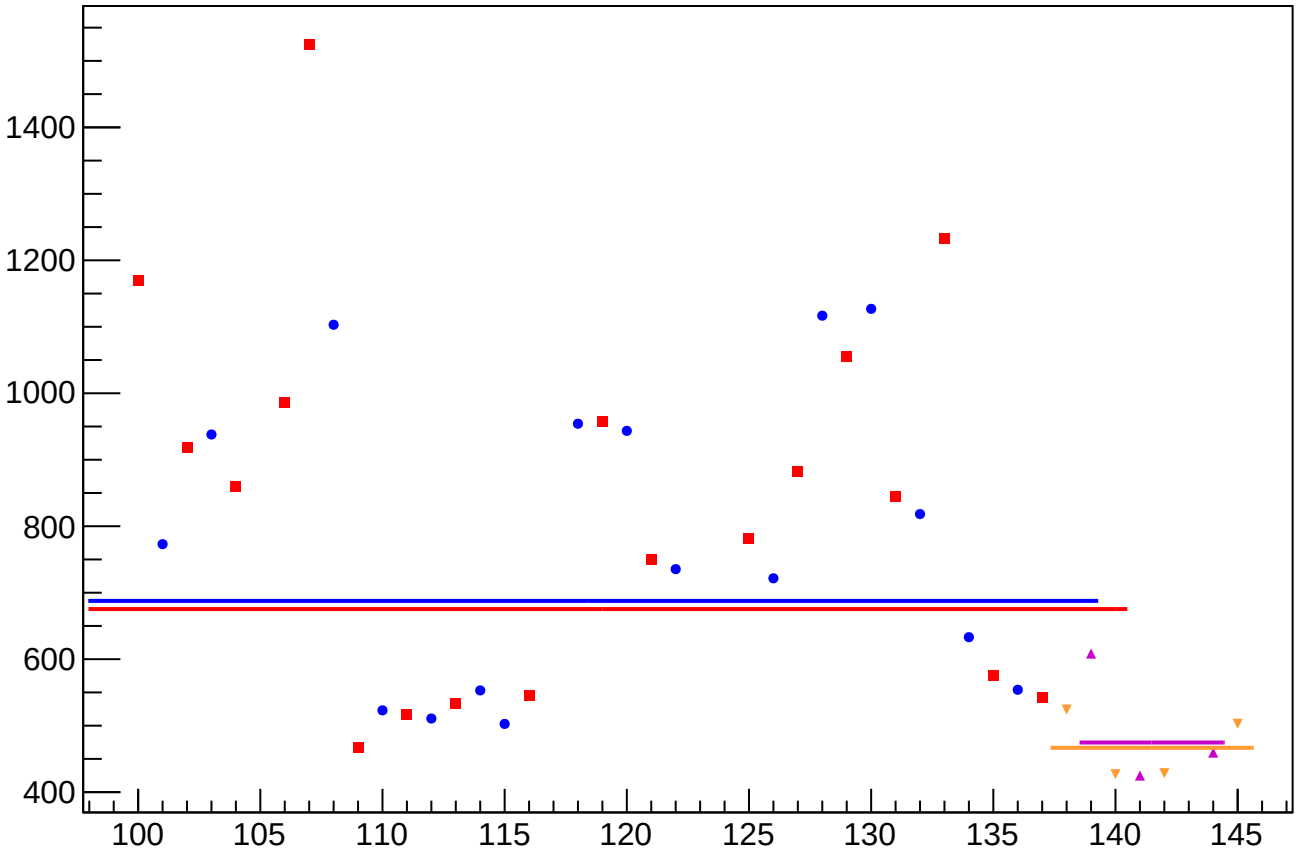
Left: 170.348+/-202.941 $\chi^2$/NDF: 10.4/6

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

In: -96.256+/-198.311 $\chi^2$/NDF:27.8/18

Out: 336.755+/-191.111 $\chi^2$/NDF:21.1/21

All: 128.253+/-137.611 $\chi^2$/NDF: 51.3/40




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

Left Out: 466.740+/-0.197 $\chi^2$/NDF:48009.1/3

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

Left In: 474.644+/-0.210 $\chi^2$/NDF:107769.9/2

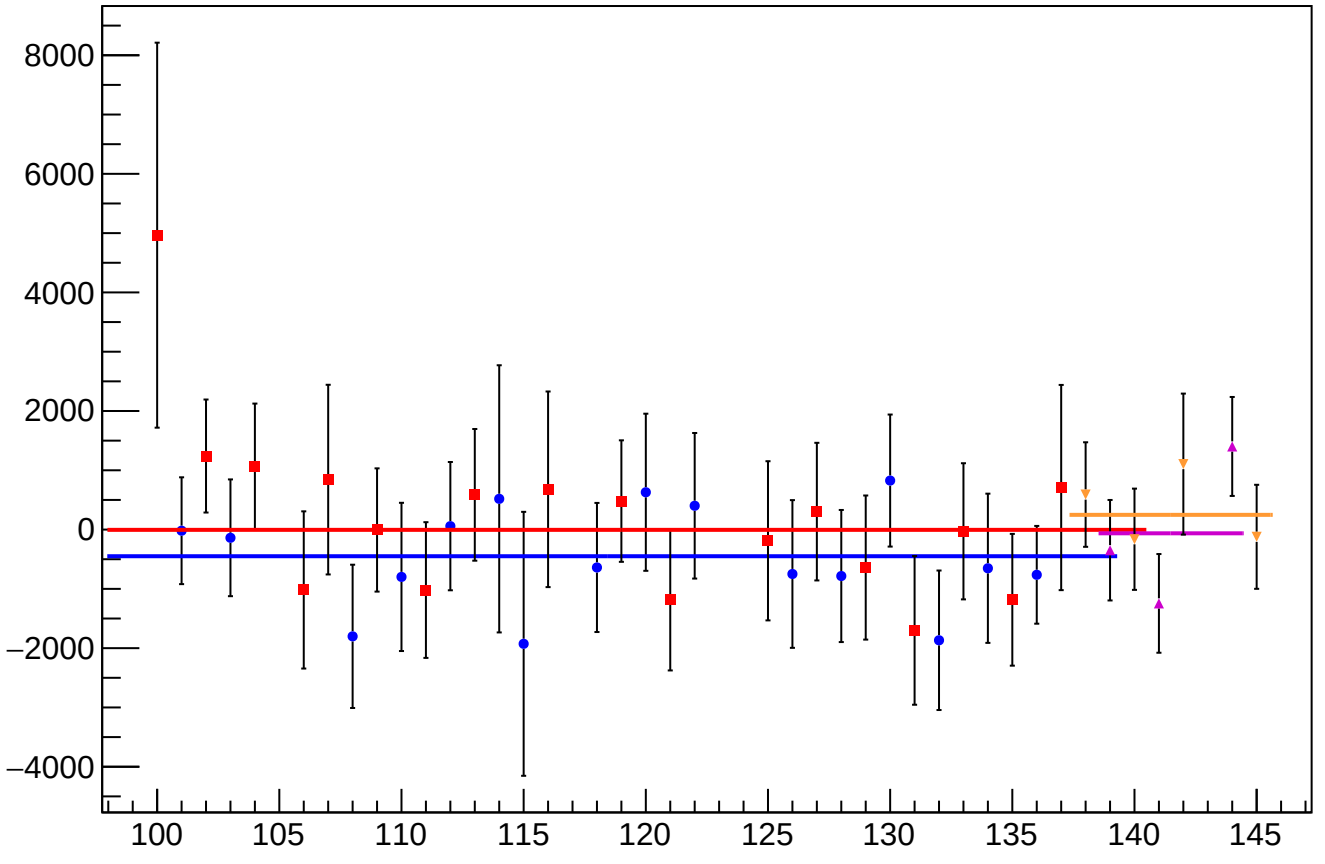
Left: 470.441+/-0.144 $\chi^2$/NDF: 156534.4/6

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

In: 592.454+/-0.140 $\chi^2$/NDF:1710417.3/18

Out: 577.002+/-0.135 $\chi^2$/NDF:1955190.3/21

All: 584.442+/-0.097 $\chi^2$/NDF: 3671903.9/40




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

Left Out: 248.439+/-463.006 $\chi^2$/NDF:1.1/3

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

Left In: -62.935+/-483.843 $\chi^2$/NDF:5.2/2

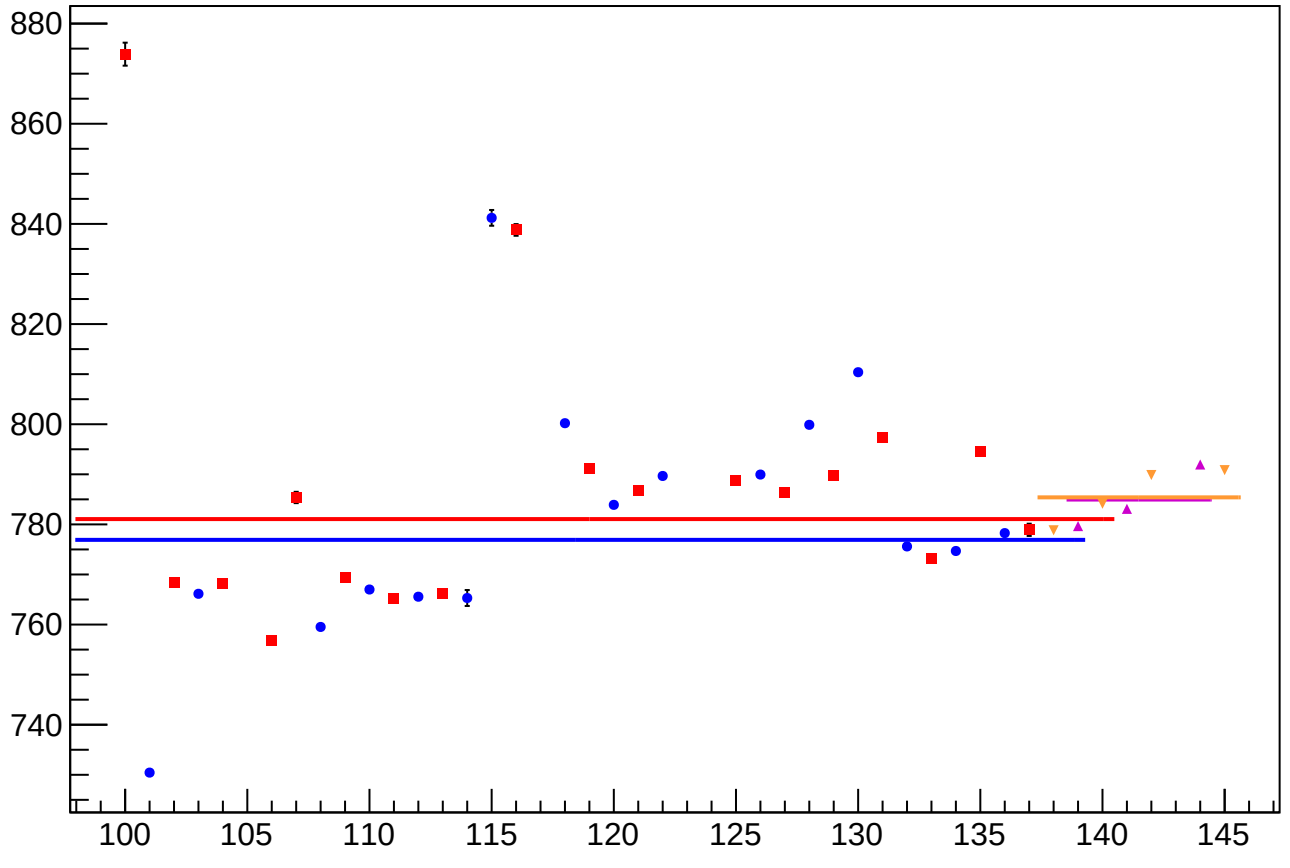
Left: 99.601+/-334.518 $\chi^2$/NDF: 6.5/6

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

In: -347.971+/-247.900 $\chi^2$/NDF:12.4/18

Out: 65.894+/-244.437 $\chi^2$/NDF:13.1/21

All: -138.128+/-174.055 $\chi^2$/NDF: 27.0/40




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

Left Out: 785.398+/-0.327 $\chi^2$/NDF:220.6/3

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

Left In: 784.961+/-0.342 $\chi^2$/NDF:228.8/2

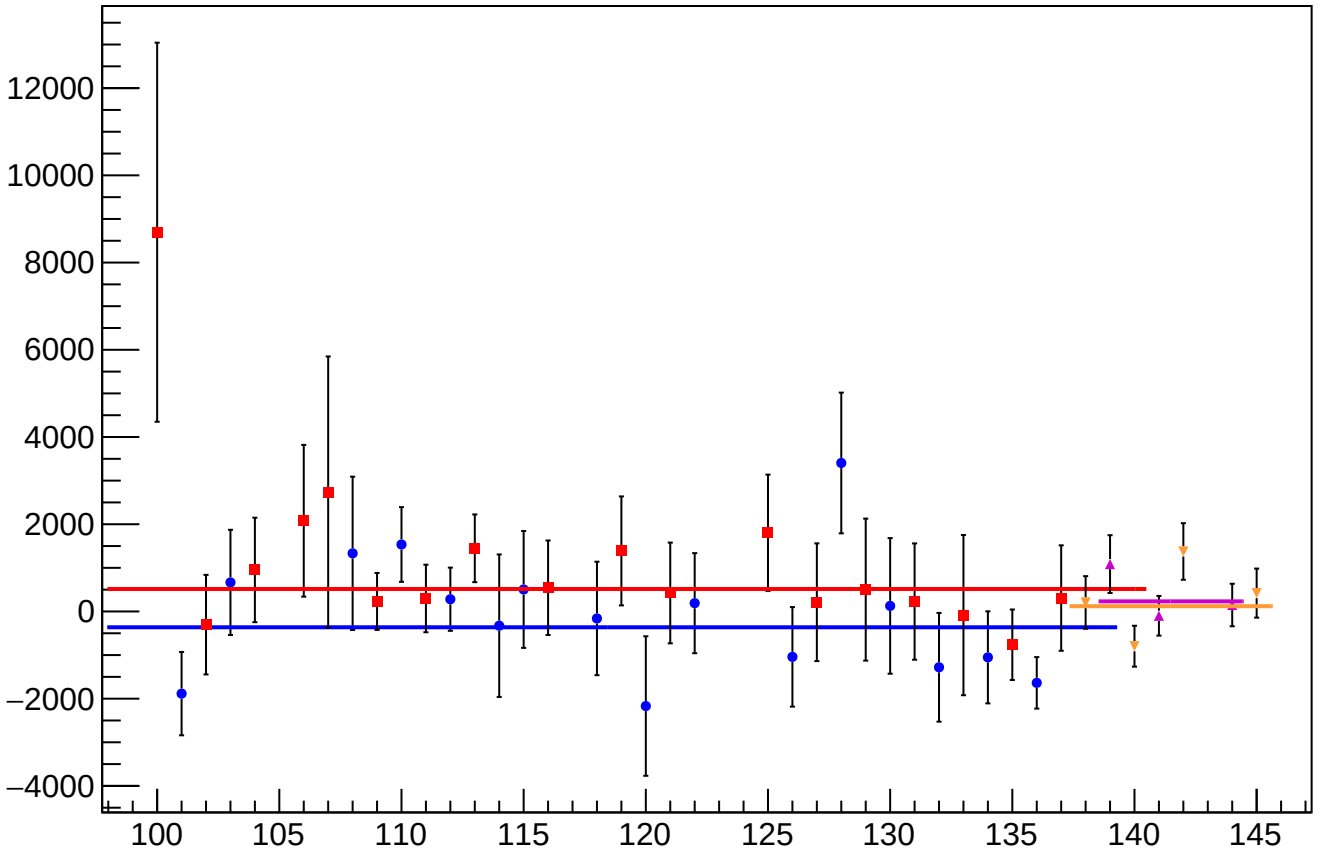
Left: 785.189+/-0.237 $\chi^2$/NDF: 450.3/6

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

In: 779.026+/-0.175 $\chi^2$/NDF:12760.4/18

Out: 782.270+/-0.173 $\chi^2$/NDF:7933.0/21

All: 780.670+/-0.123 $\chi^2$/NDF: 20867.1/40




Right In: -362.811+/-267.086 $\chi^2$/NDF: 23.4/15

Left Out: 120.318+/-279.040 $\chi^2$/NDF:7.9/3

Right Out: 515.295+/-263.302 $\chi^2$/NDF: 11.4/17

Left In: 231.170+/-297.244 $\chi^2$/NDF:2.2/2

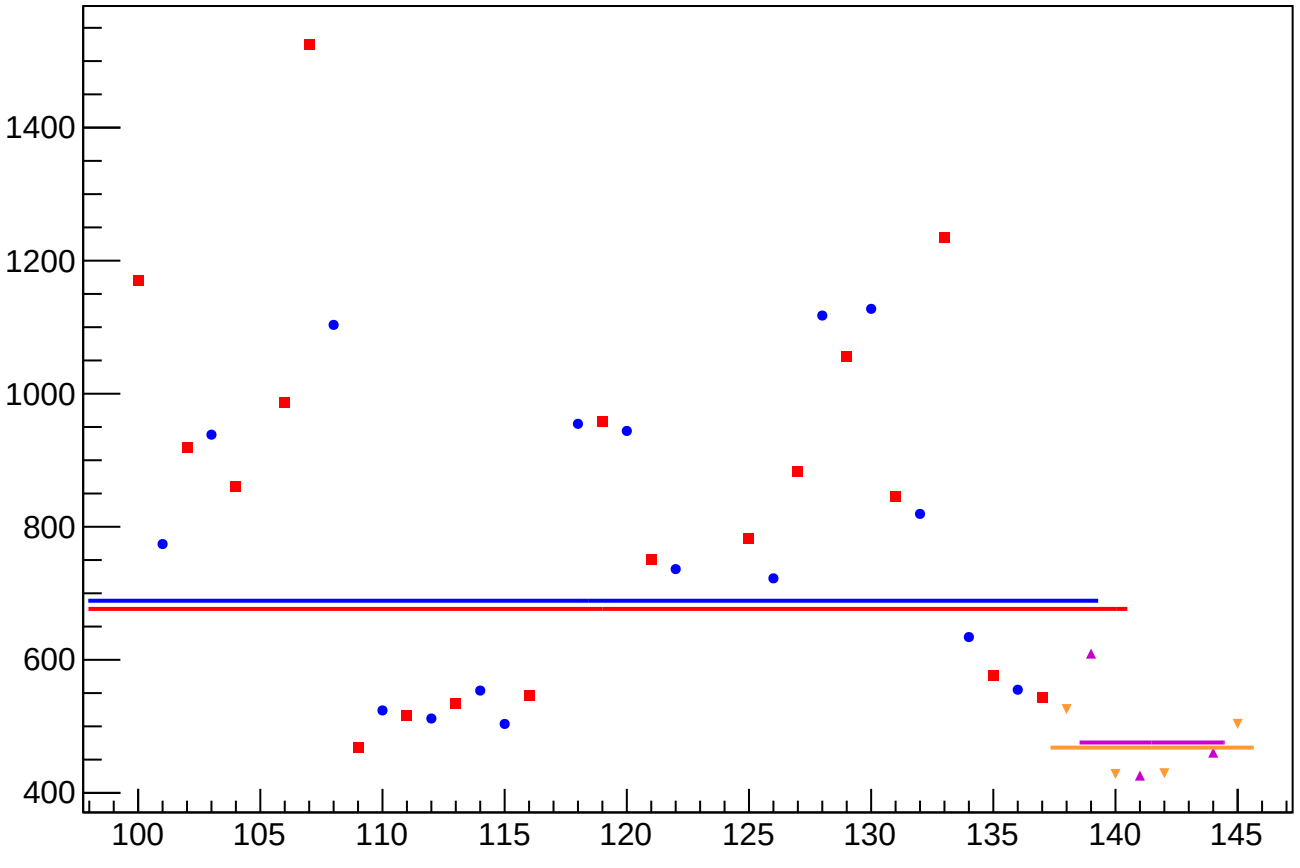
Left: 172.246+/-203.442 $\chi^2$/NDF: 10.2/6

Right: 82.506+/-187.506 $\chi^2$/NDF: 40.2/33

In: -97.473+/-198.667 $\chi^2$/NDF:27.8/18

Out: 329.259+/-191.505 $\chi^2$/NDF:20.3/21

All: 123.724+/-137.877 $\chi^2$/NDF: 50.5/40




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

Left Out: 468.037+/-0.197 $\chi^2$/NDF:47839.1/3

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

Left In: 475.736+/-0.210 $\chi^2$/NDF:107155.8/2

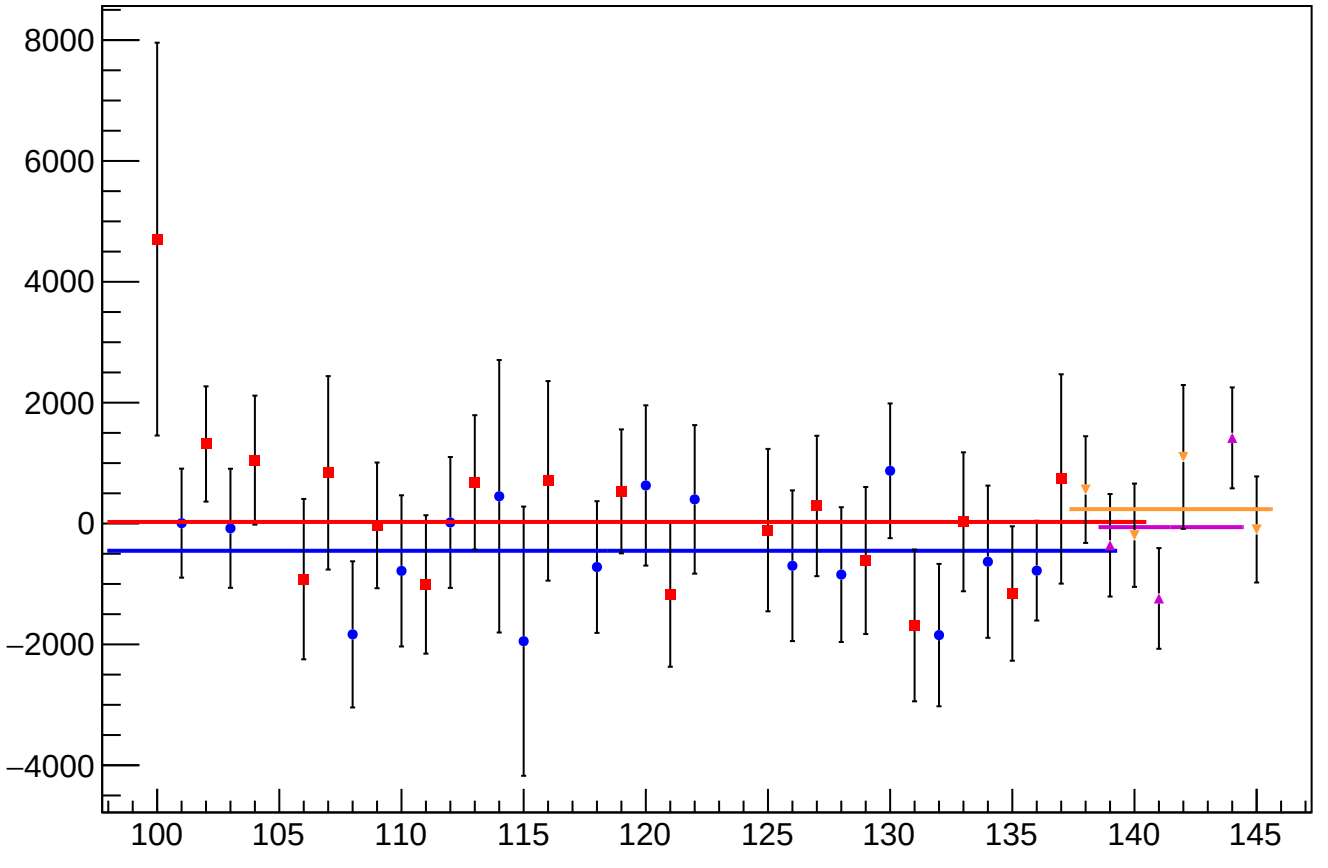
Left: 471.643+/-0.144 $\chi^2$/NDF: 155708.2/6

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

In: 593.638+/-0.140 $\chi^2$/NDF:1703985.7/18

Out: 578.351+/-0.135 $\chi^2$/NDF:1946765.1/21

All: 585.714+/-0.097 $\chi^2$/NDF: 3656889.0/40




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

Left Out: 237.846+/-463.442 $\chi^2$/NDF:1.1/3

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

Left In: -59.758+/-484.229 $\chi^2$/NDF:5.3/2

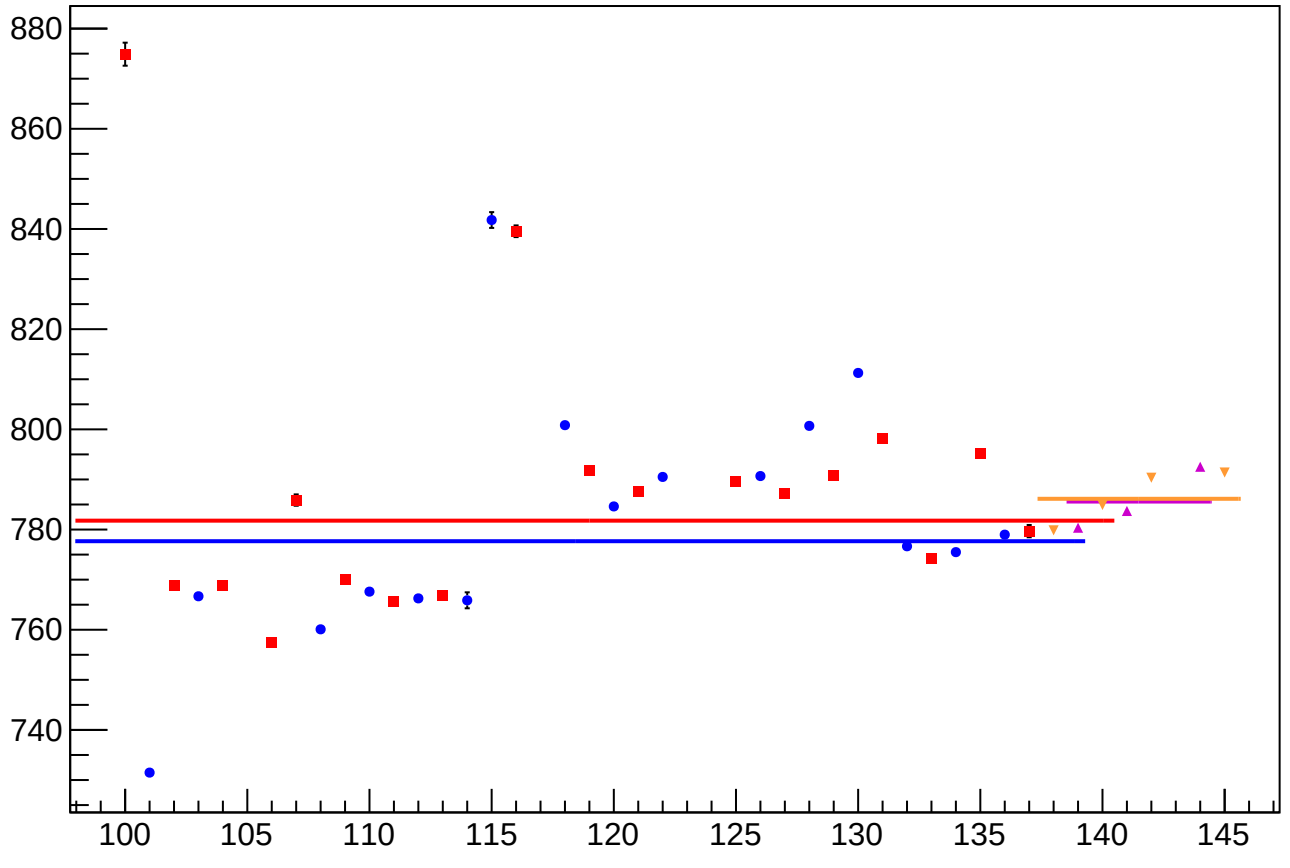
Left: 95.569+/-334.811 $\chi^2$/NDF: 6.5/6

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

In: -348.234+/-248.131 $\chi^2$/NDF:12.7/18

Out: 85.114+/-244.663 $\chi^2$/NDF:12.9/21

All: -128.510+/-174.216 $\chi^2$/NDF: 27.1/40




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

Left Out: 786.140+/-0.328 $\chi^2$/NDF:202.4/3

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

Left In: 785.589+/-0.342 $\chi^2$/NDF:224.4/2

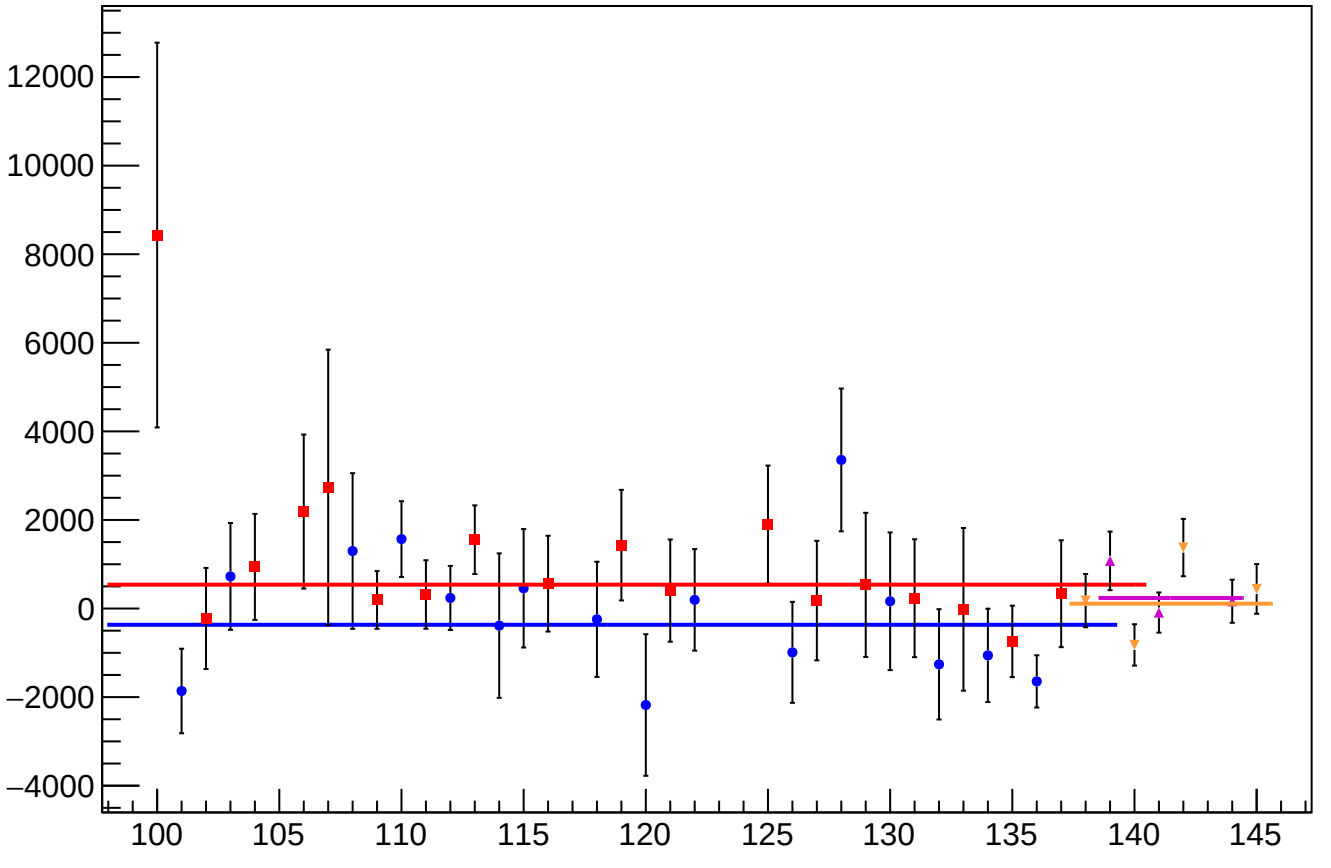
Left: 785.876+/-0.237 $\chi^2$/NDF: 428.1/6

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

In: 779.753+/-0.175 $\chi^2$/NDF:12673.8/18

Out: 782.993+/-0.173 $\chi^2$/NDF:7956.6/21

All: 781.395+/-0.123 $\chi^2$/NDF: 20803.3/40




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

Left Out: 110.275+/-278.291 $\chi^2$/NDF:8.2/3

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

Left In: 238.580+/-296.586 $\chi^2$/NDF:2.2/2

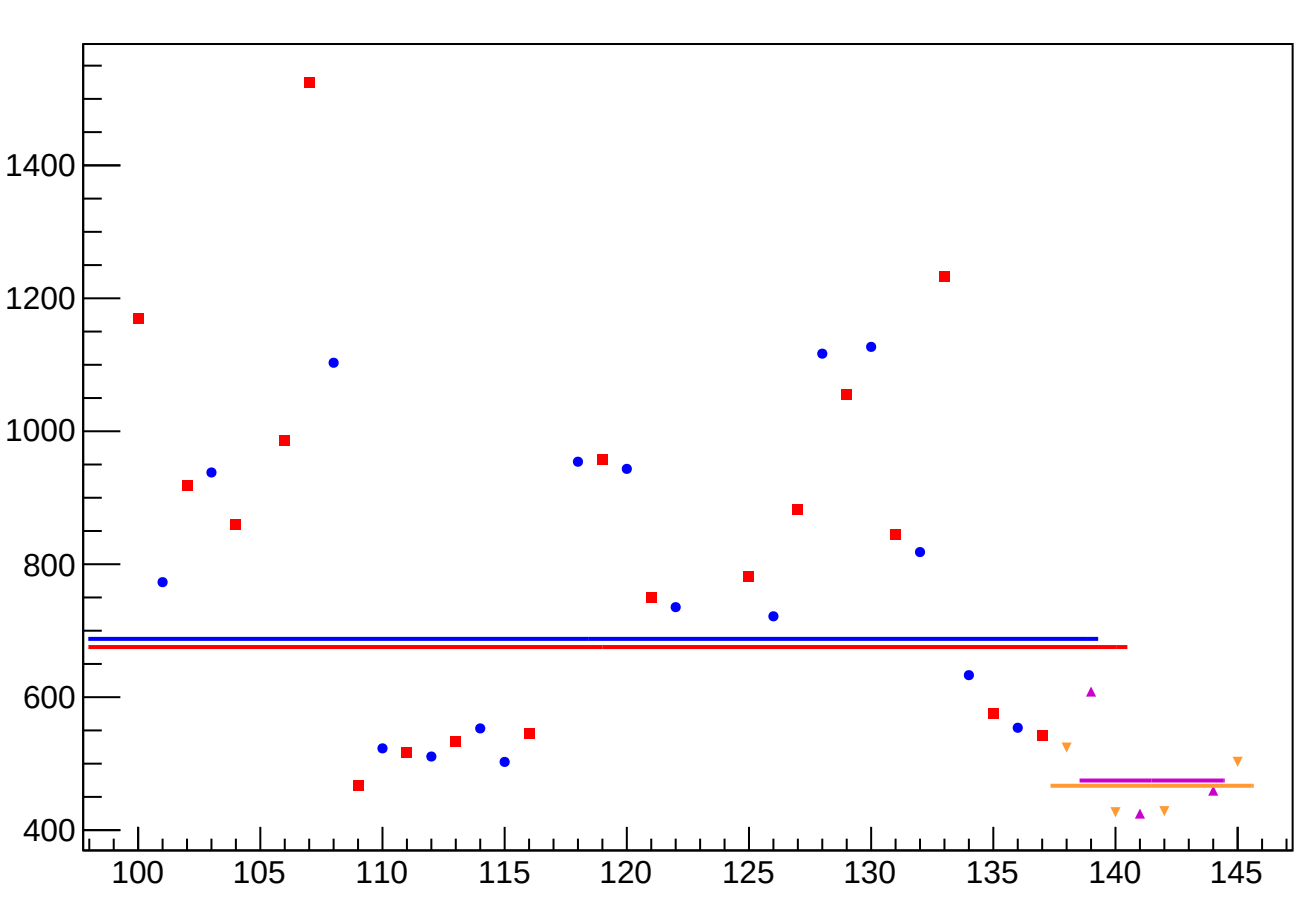
Left: 170.348+/-202.941 $\chi^2$/NDF: 10.4/6

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

In: -96.256+/-198.311 $\chi^2$/NDF:27.8/18

Out: 336.755+/-191.111 $\chi^2$/NDF:21.1/21

All: 128.253+/-137.611 $\chi^2$/NDF: 51.3/40




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

Left Out: 466.740+/-0.197 $\chi^2$/NDF:48009.1/3

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

Left In: 474.644+/-0.210 $\chi^2$/NDF:107769.9/2

Left: 470.441+/-0.144 $\chi^2$/NDF: 156534.4/6

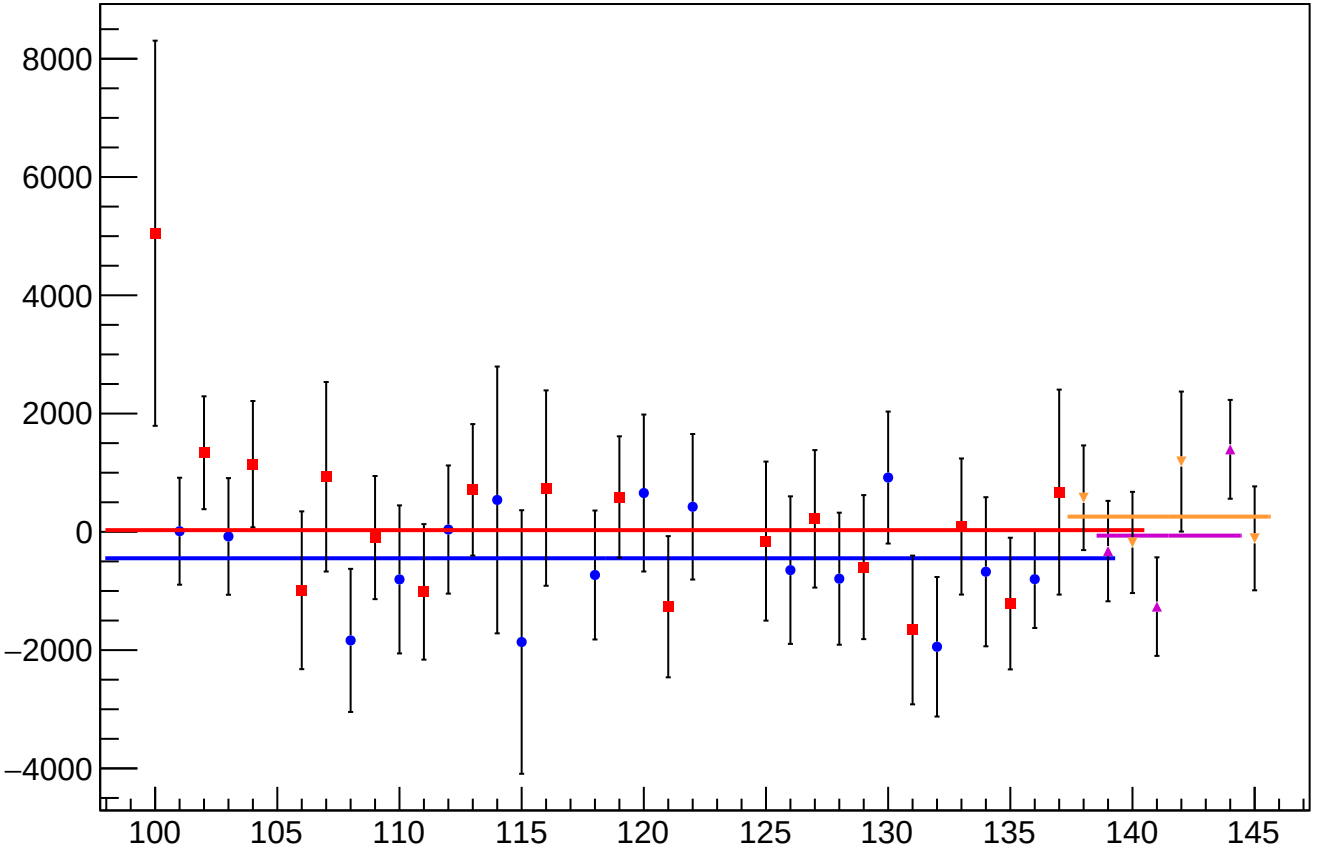
Right: 681.475+/-0.132 $\chi^2$/NDF: 2347071.2/33

In: 592.454+/-0.140 $\chi^2$/NDF:1710417.3/18

Out: 577.002+/-0.135 $\chi^2$/NDF:1955190.3/21

All: 584.442+/-0.097 $\chi^2$/NDF: 3671903.9/40

# dit_asym_us_dd_mean vs Slug, Sign Corrected




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

Left Out: 257.318+/-463.697 $\chi^2$/NDF:1.2/3

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

Left In: -63.914+/-484.646 $\chi^2$/NDF:5.2/2

Left: 103.795+/-335.045 $\chi^2$/NDF: 6.6/6

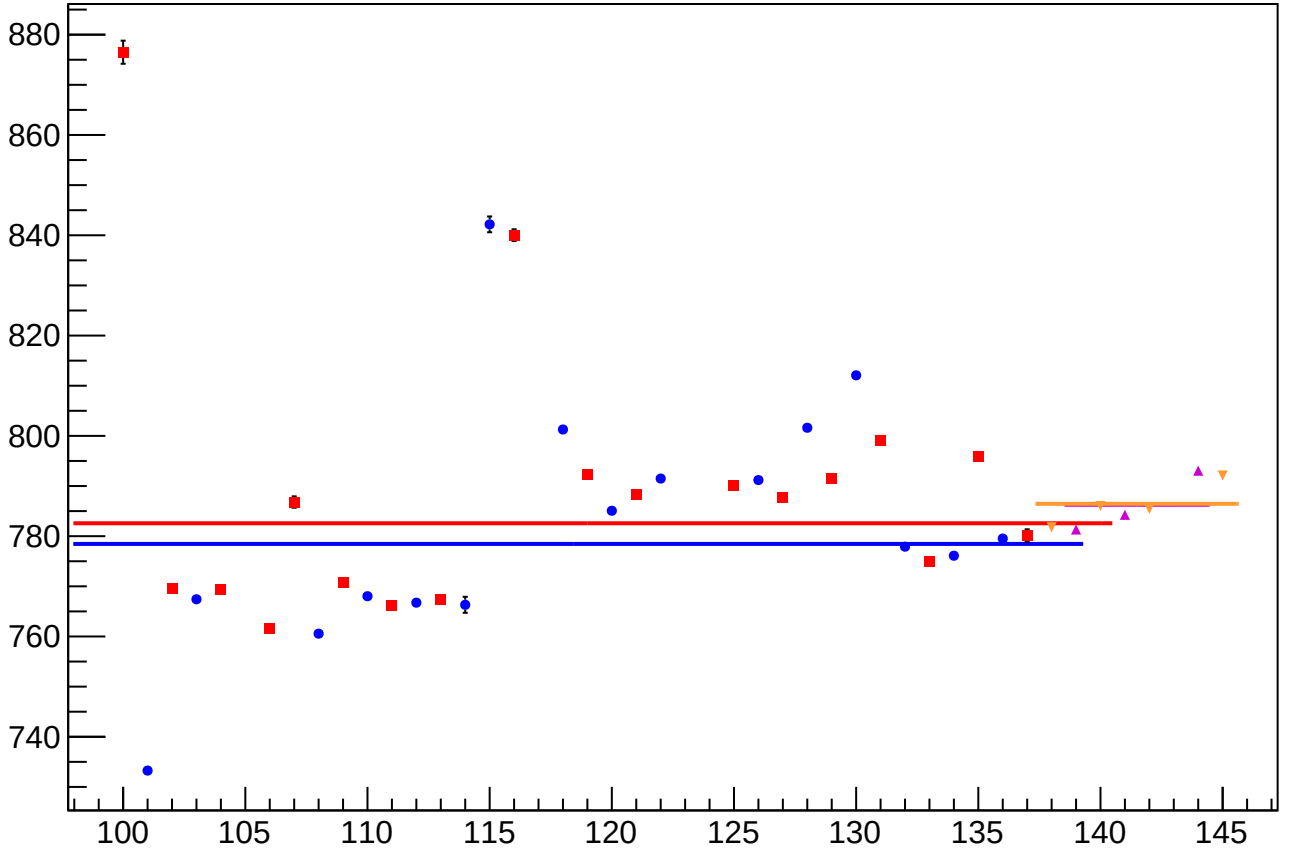
Right: -208.223+/-204.216 $\chi^2$/NDF: 21.3/33

In: -346.137+/-248.369 $\chi^2$/NDF:13.0/18

Out: 92.523+/-244.880 $\chi^2$/NDF:14.0/21

All: -123.704+/-174.377 $\chi^2$/NDF: 28.5/40

# dit_asym_us_dd_rms vs Slug, Sign Corrected




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

Left Out: 786.457+/-0.328 $\chi^2$/NDF:140.3/3

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

Left In: 786.264+/-0.343 $\chi^2$/NDF:211.4/2

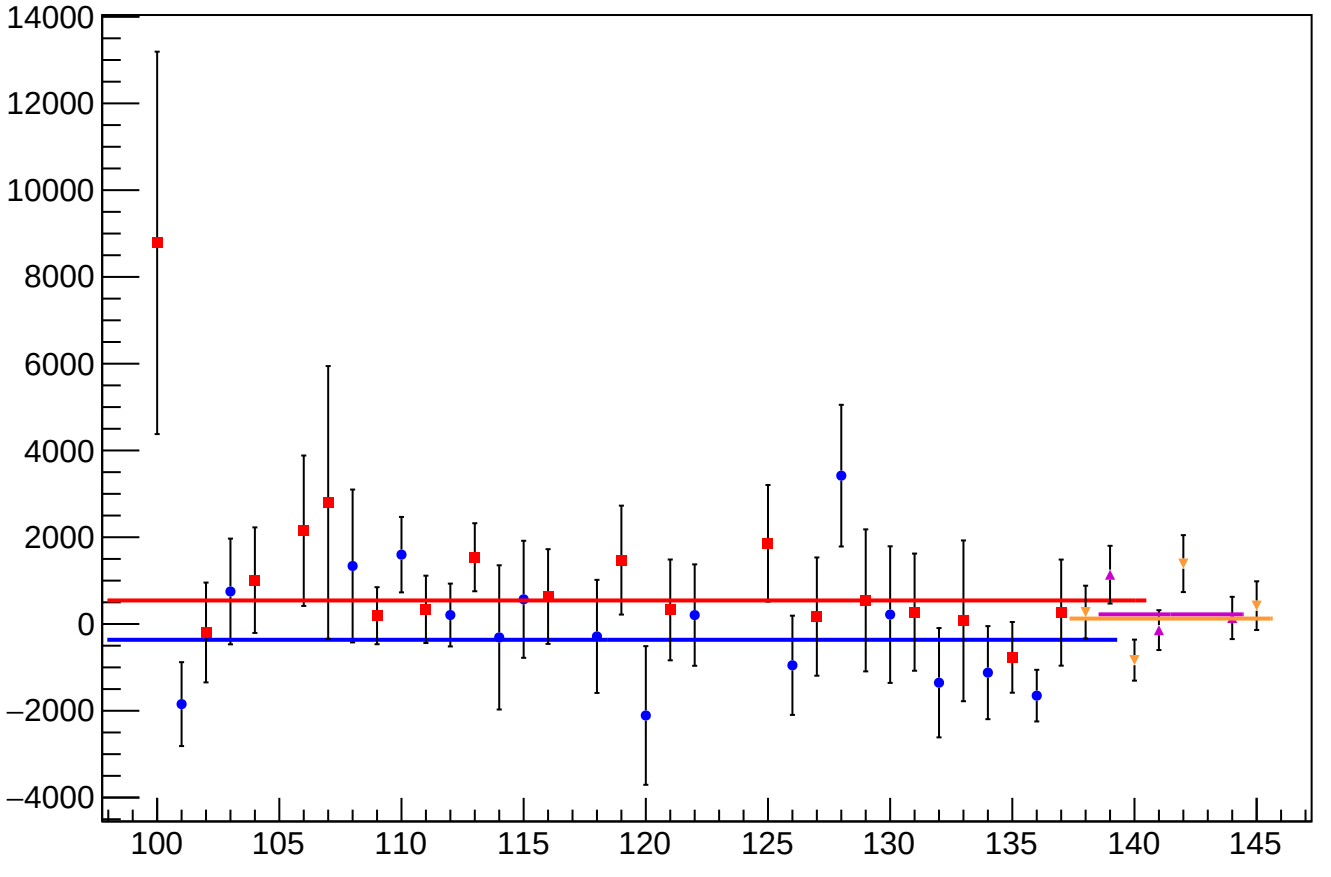
Left: 786.365+/-0.237 $\chi^2$/NDF: 351.9/6

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

In: 780.507+/-0.176 $\chi^2$/NDF:12389.4/18

Out: 783.658+/-0.173 $\chi^2$/NDF:7722.9/21

All: 782.104+/-0.123 $\chi^2$/NDF: 20275.6/40




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

Left Out: 125.447+/-280.945 $\chi^2$/NDF:8.2/3

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

Left In: 221.927+/-298.609 $\chi^2$/NDF:2.5/2

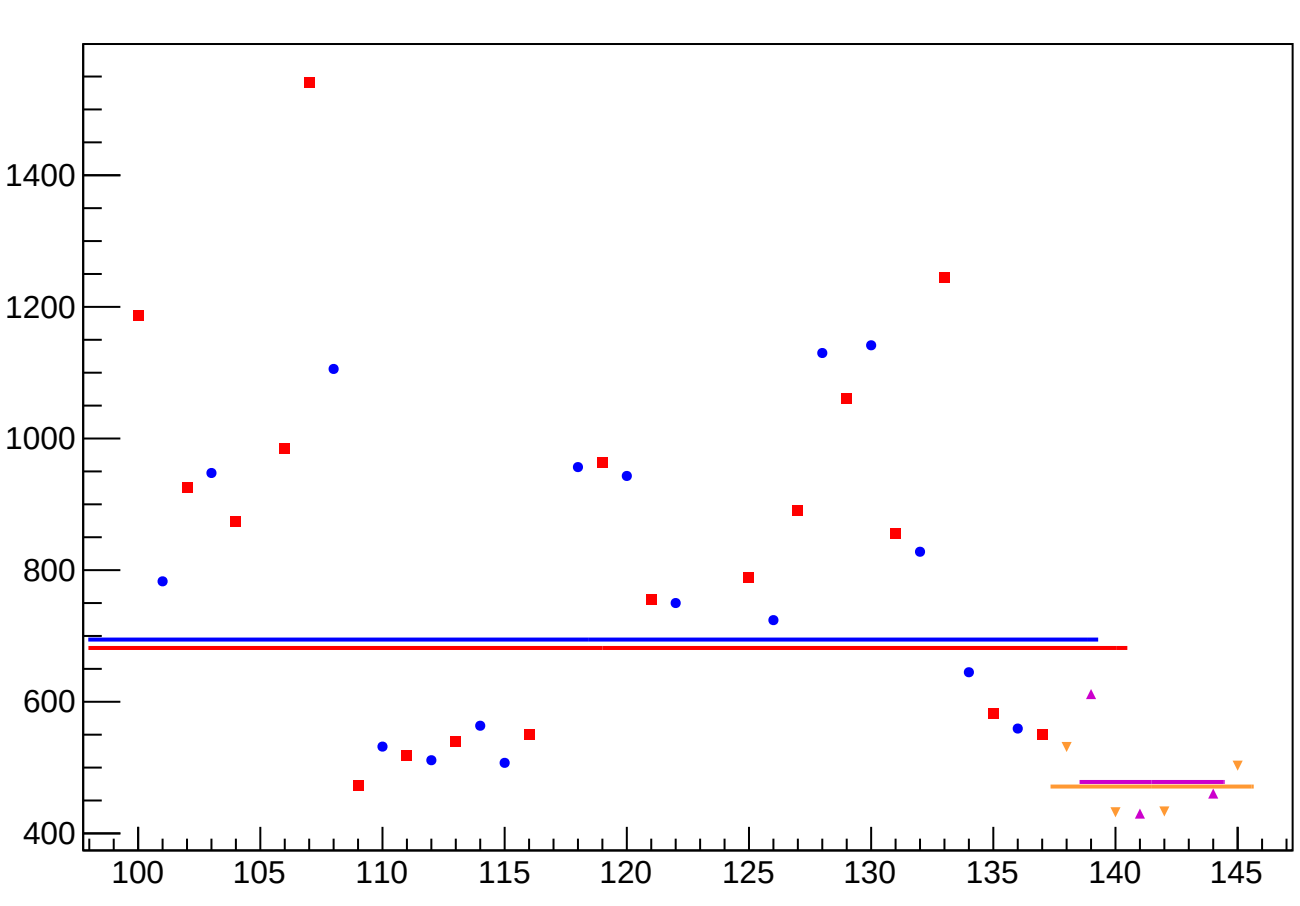
Left: 170.749+/-204.618 $\chi^2$/NDF: 10.8/6

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

In: -101.165+/-199.992 $\chi^2$/NDF:28.0/18

Out: 346.130+/-192.879 $\chi^2$/NDF:21.1/21

All: 130.577+/-138.832 $\chi^2$/NDF: 51.7/40




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

Left Out: 471.189+/-0.199 $\chi^2$/NDF:46203.2/3

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

Left In: 478.151+/-0.211 $\chi^2$/NDF:105155.2/2

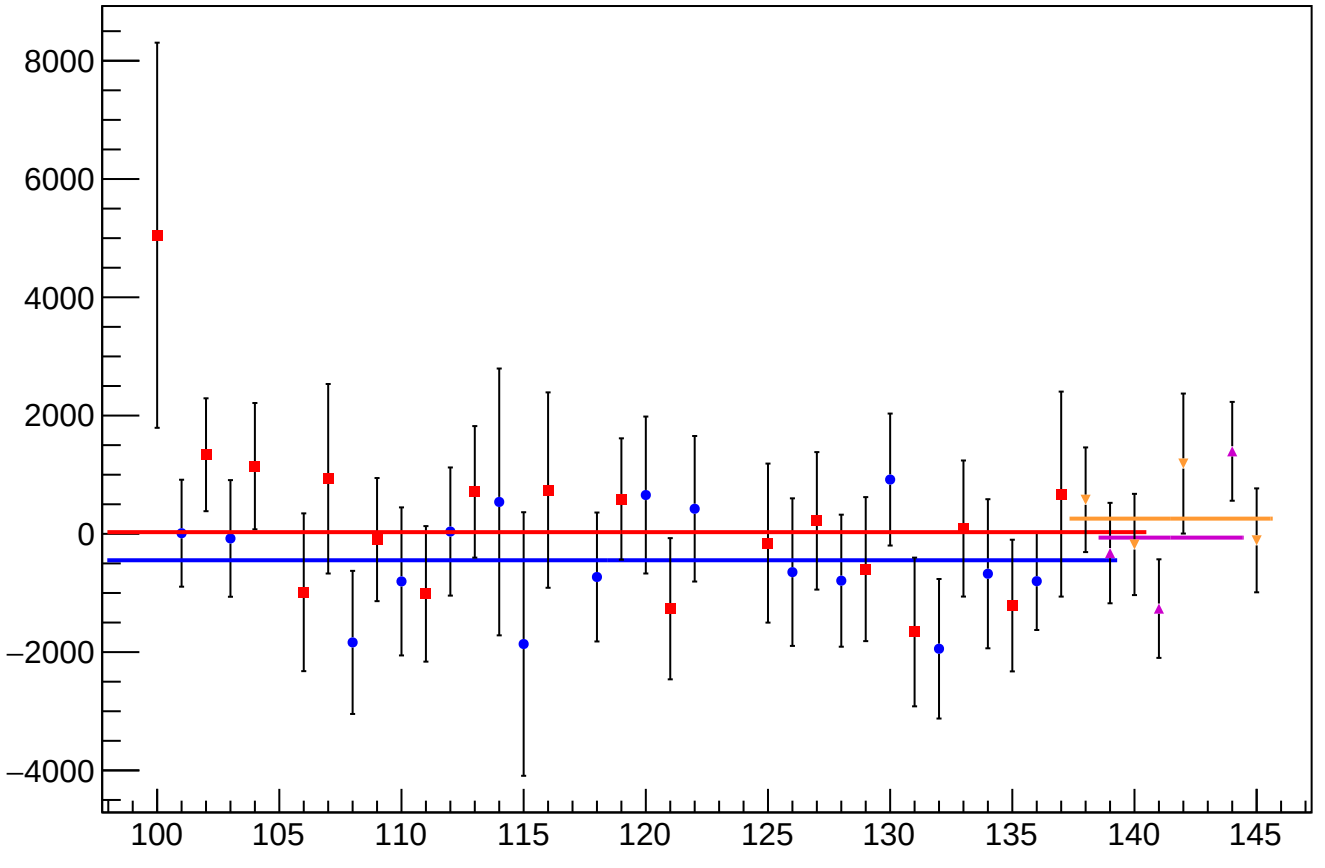
Left: 474.458+/-0.145 $\chi^2$/NDF: 151935.2/6

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

In: 597.468+/-0.141 $\chi^2$/NDF:1714099.7/18

Out: 582.502+/-0.136 $\chi^2$/NDF:1951408.5/21

All: 589.714+/-0.098 $\chi^2$/NDF: 3671310.2/40




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

Left Out: 257.317+/-463.697 $\chi^2$/NDF:1.2/3

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

Left In: -63.911+/-484.646 $\chi^2$/NDF:5.2/2

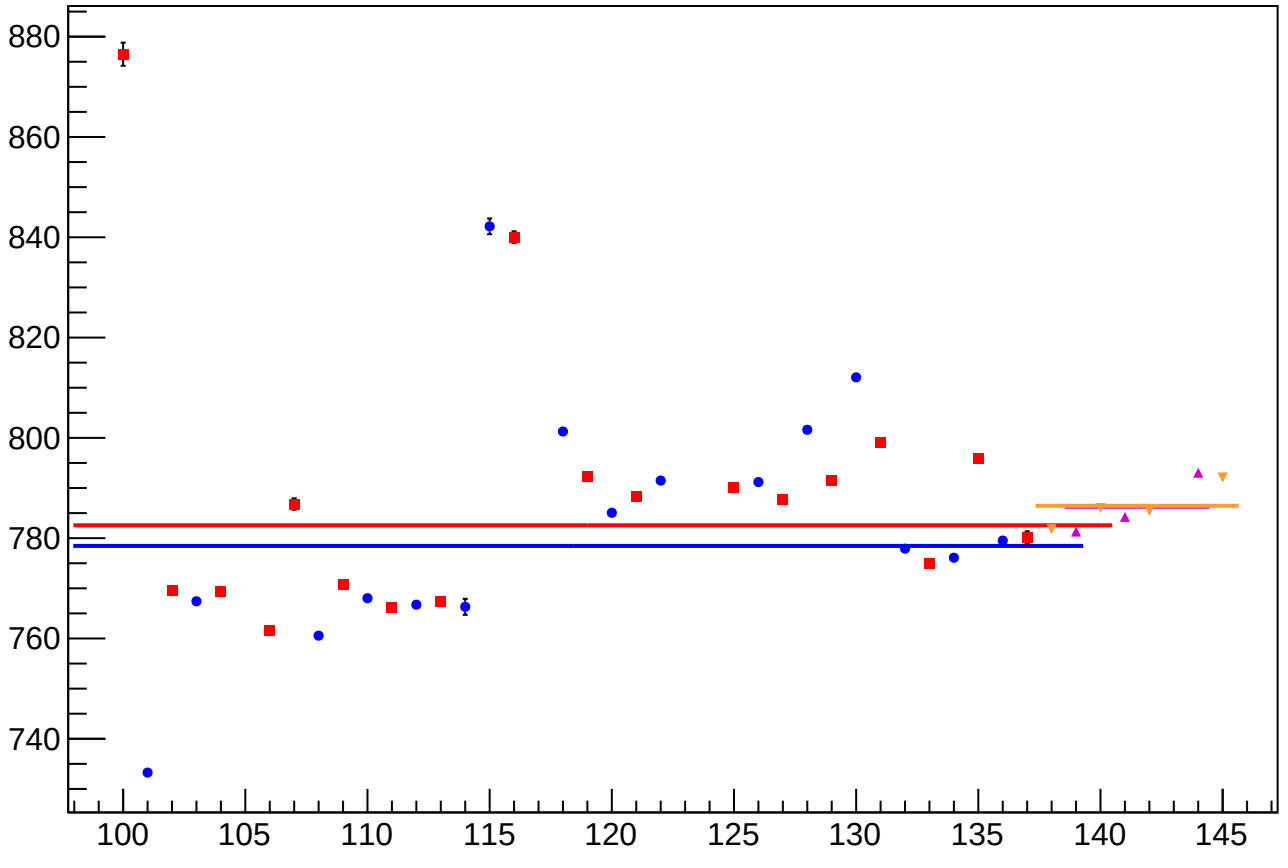
Left: 103.795+/-335.045 $\chi^2$/NDF: 6.6/6

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

In: -346.137+/-248.369 $\chi^2$/NDF:13.0/18

Out: 92.521+/-244.880 $\chi^2$/NDF:14.0/21

All: -123.705+/-174.377 $\chi^2$/NDF: 28.5/40




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

Left Out: 786.457+/-0.328 $\chi^2$/NDF:140.3/3

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

Left In: 786.264+/-0.343 $\chi^2$/NDF:211.4/2

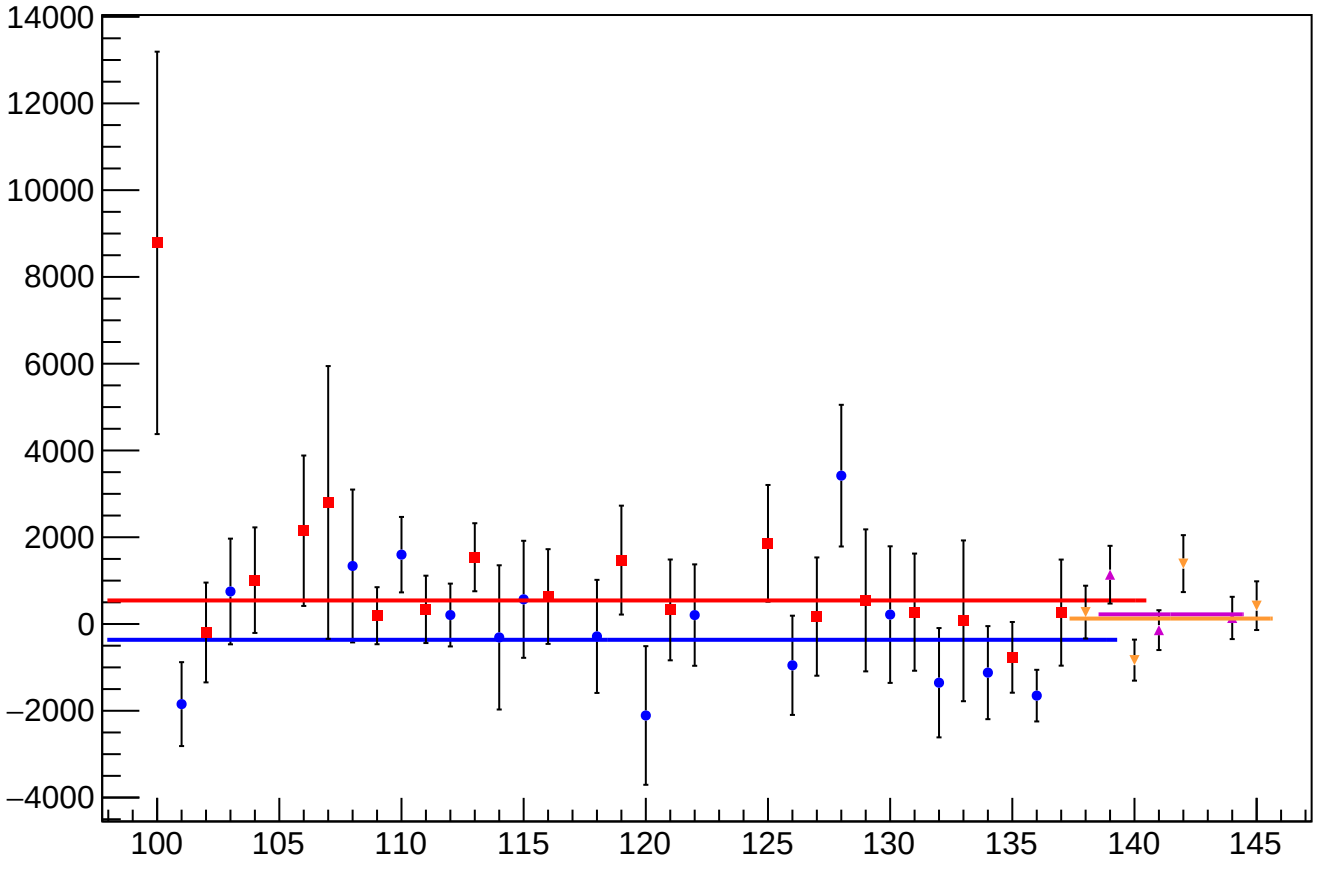
Left: 786.365+/-0.237 $\chi^2$/NDF: 351.9/6

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

In: 780.507+/-0.176 $\chi^2$/NDF:12389.4/18

Out: 783.658+/-0.173 $\chi^2$/NDF:7722.8/21

All: 782.104+/-0.123 $\chi^2$/NDF: 20275.5/40




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

Left Out: 125.444+/-280.945 $\chi^2$/NDF:8.2/3

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

Left In: 221.924+/-298.609 $\chi^2$/NDF:2.5/2

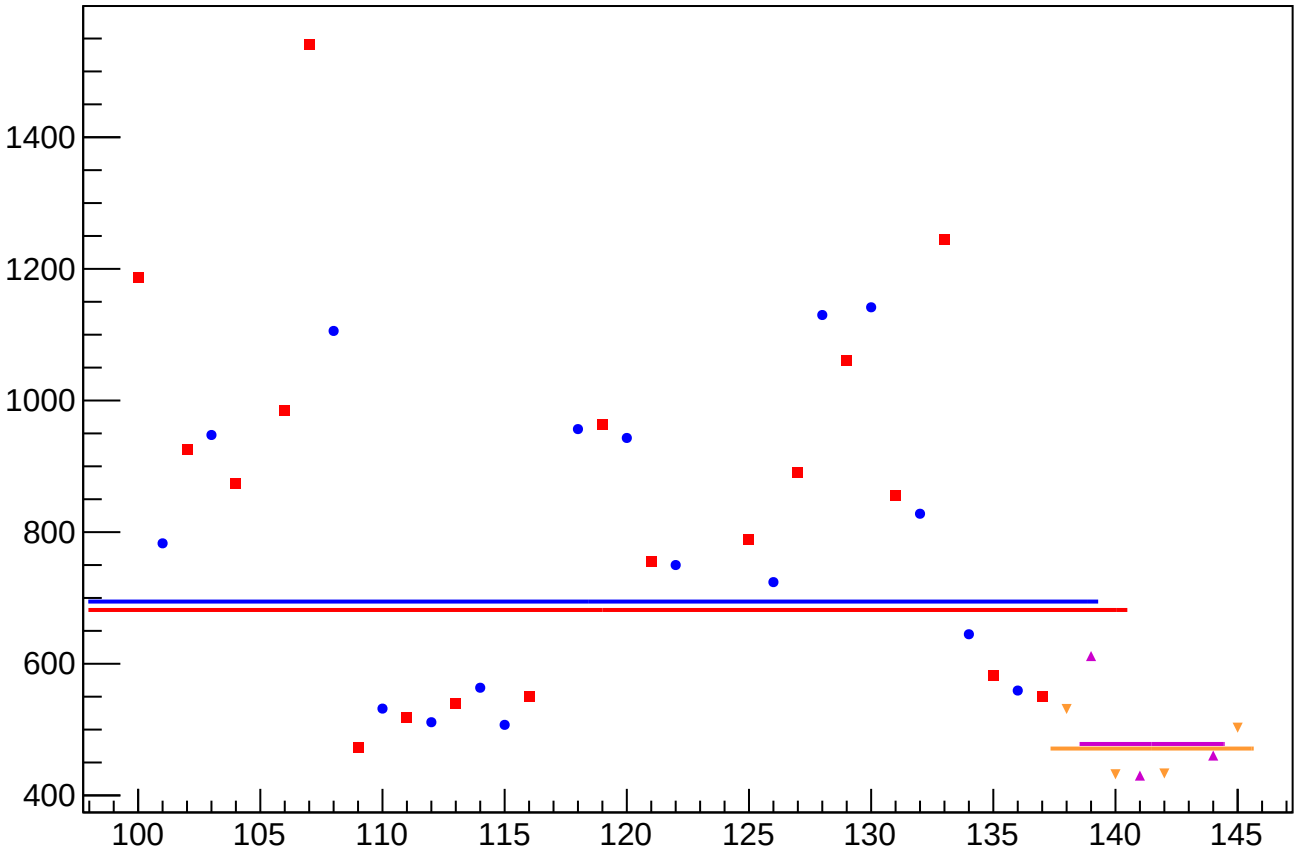
Left: 170.747+/-204.618 $\chi^2$/NDF: 10.8/6

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

In: -101.166+/-199.991 $\chi^2$/NDF:28.0/18

Out: 346.129+/-192.879 $\chi^2$/NDF:21.1/21

All: 130.577+/-138.832 $\chi^2$/NDF: 51.7/40




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

Left Out: 471.188+/-0.199 $\chi^2$/NDF:46207.5/3

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

Left In: 478.151+/-0.211 $\chi^2$/NDF:105162.0/2

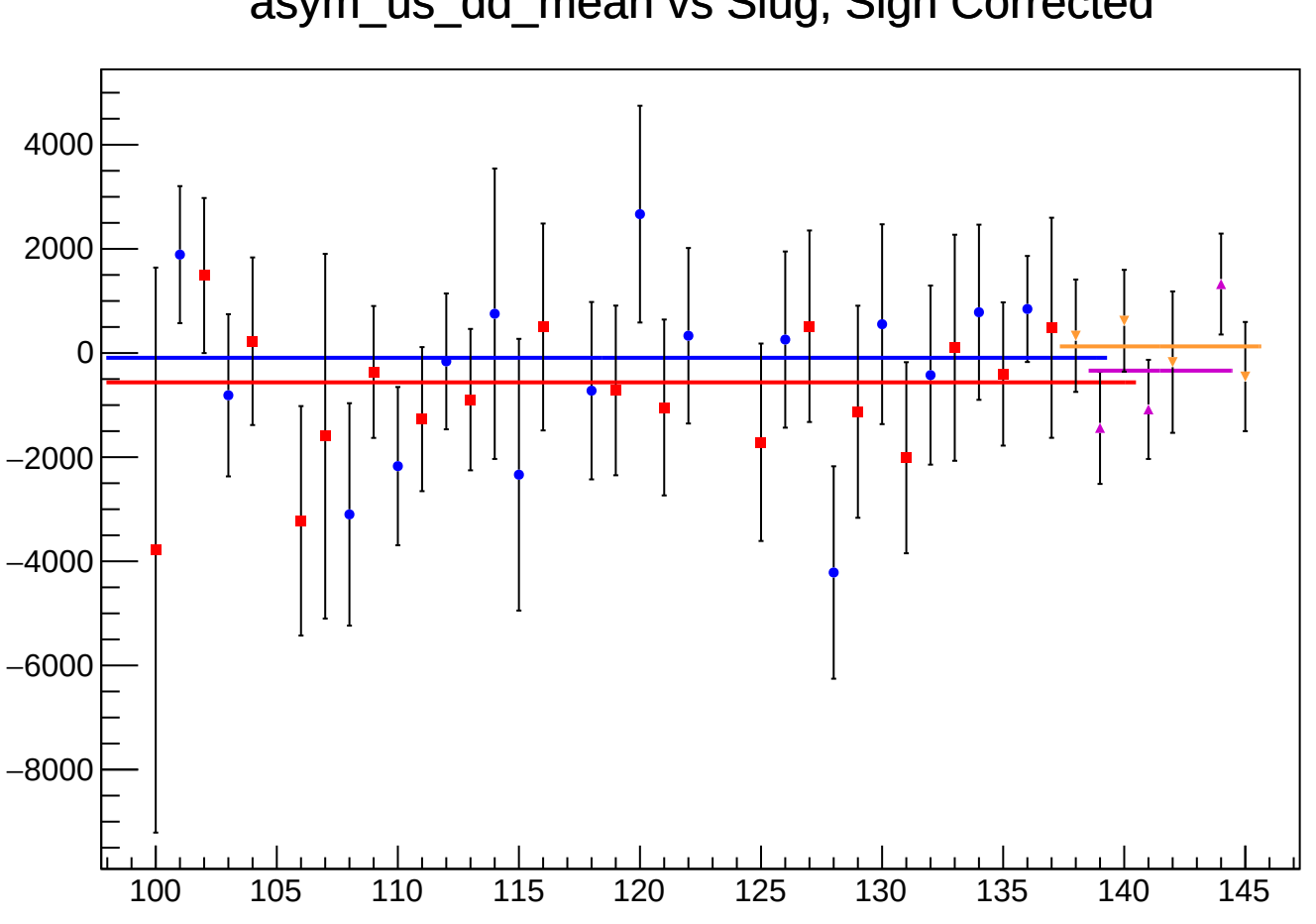
Left: 474.457+/-0.145 $\chi^2$/NDF: 151946.2/6

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

In: 597.466+/-0.141 $\chi^2$/NDF:1714105.7/18

Out: 582.501+/-0.136 $\chi^2$/NDF:1951421.9/21

All: 589.712+/-0.098 $\chi^2$/NDF: 3671329.7/40




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

Left Out: 127.455+/-545.749 $\chi^2$/NDF:0.6/3

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

Left In: -338.168+/-574.464 $\chi^2$/NDF:4.6/2

Left: -93.429+/-395.665 $\chi^2$/NDF: 5.6/6

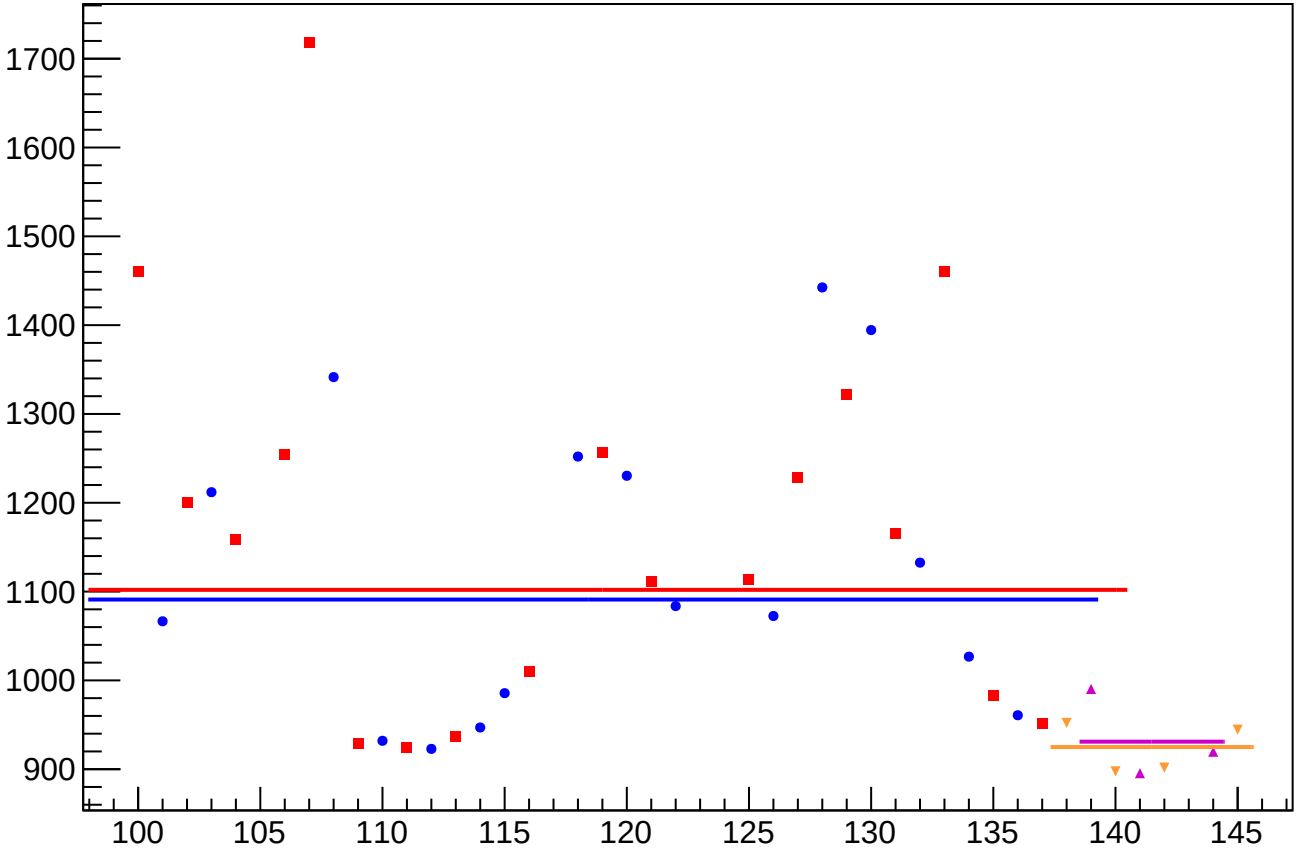
Right: -326.374+/-290.450 $\chi^2$/NDF: 21.7/33

In: -174.604+/-333.698 $\chi^2$/NDF:19.3/18

Out: -312.873+/-328.600 $\chi^2$/NDF:8.2/21

All: -244.803+/-234.137 $\chi^2$/NDF: 27.5/40

# asym_us_dd_rms vs Slug, Sign Corrected




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

Left Out: 924.967+/-0.386 $\chi^2$/NDF:4116.1/3

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

Left In: 931.003+/-0.406 $\chi^2$/NDF:9138.7/2

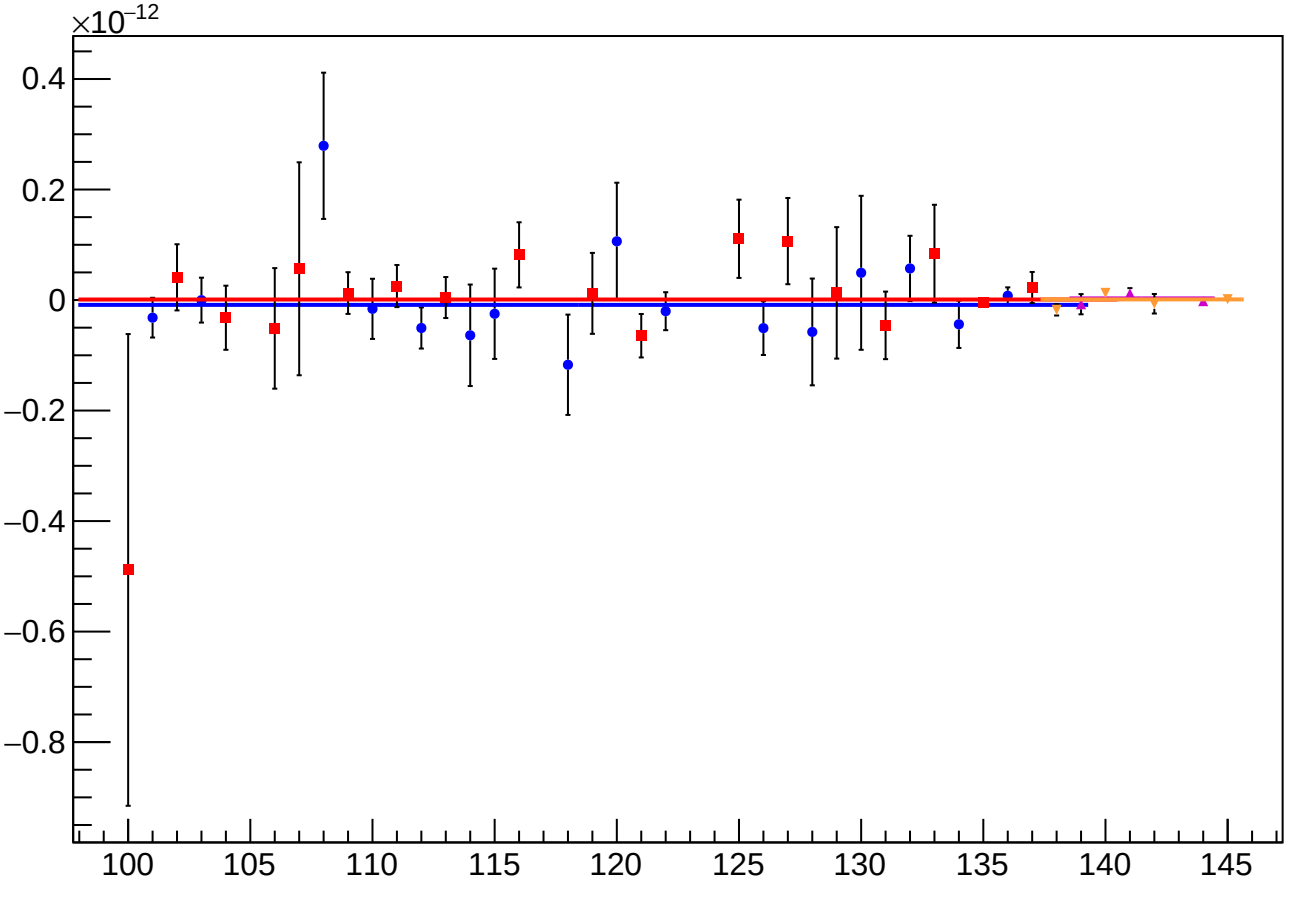
Left: 927.830+/-0.280 $\chi^2$/NDF: 13370.9/6

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

In: 1037.039+/-0.236 $\chi^2$/NDF:389289.2/18

Out: 1037.790+/-0.232 $\chi^2$/NDF:466307.8/21

All: 1037.420+/-0.166 $\chi^2$/NDF: 855602.2/40




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

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.9/3

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

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.7/2

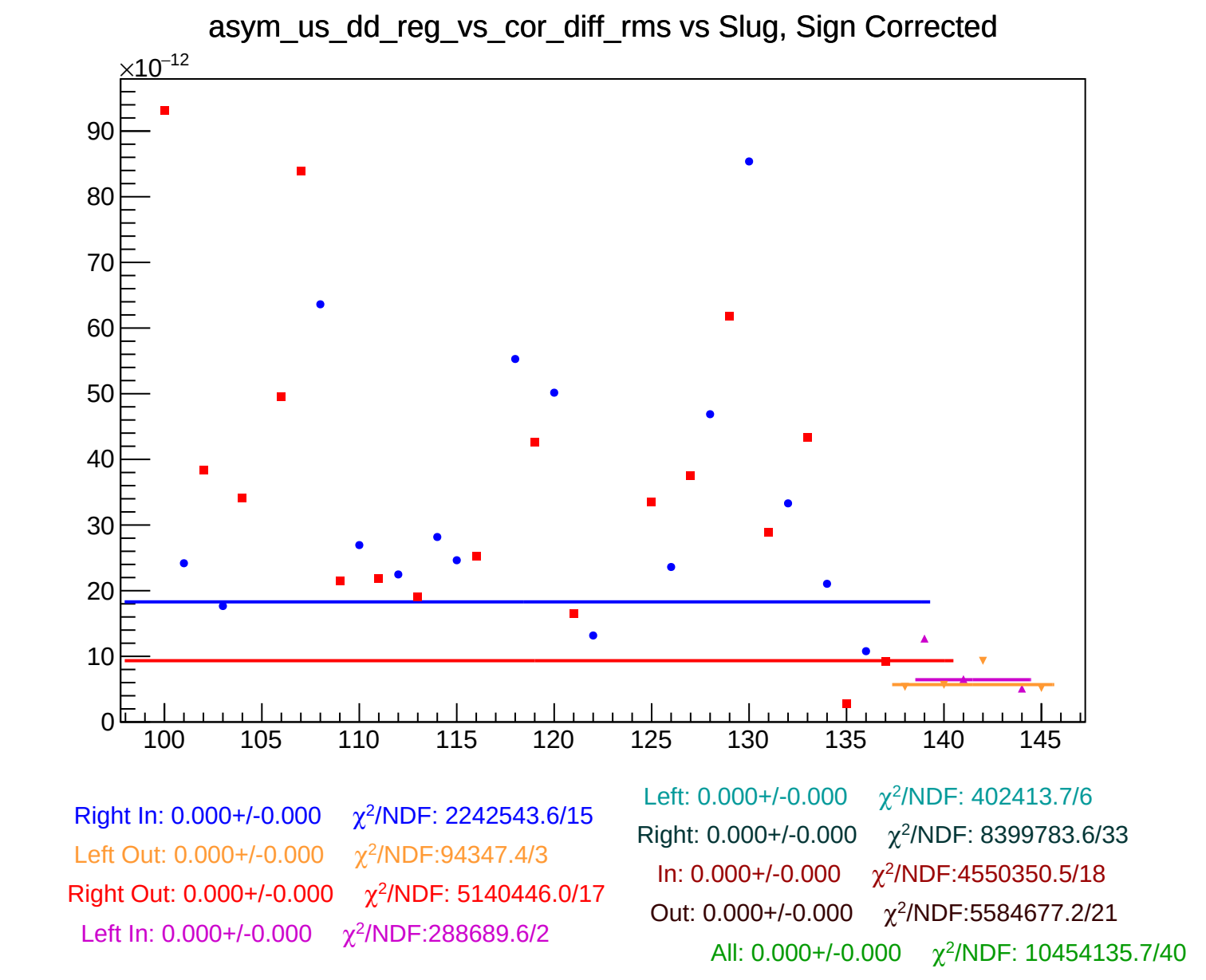
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.6/6

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

In: 0.000+/-0.000 $\chi^2$/NDF:16.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:20.2/21

All: 0.000+/-0.000 $\chi^2$/NDF: 36.7/40


asym_us_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
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50
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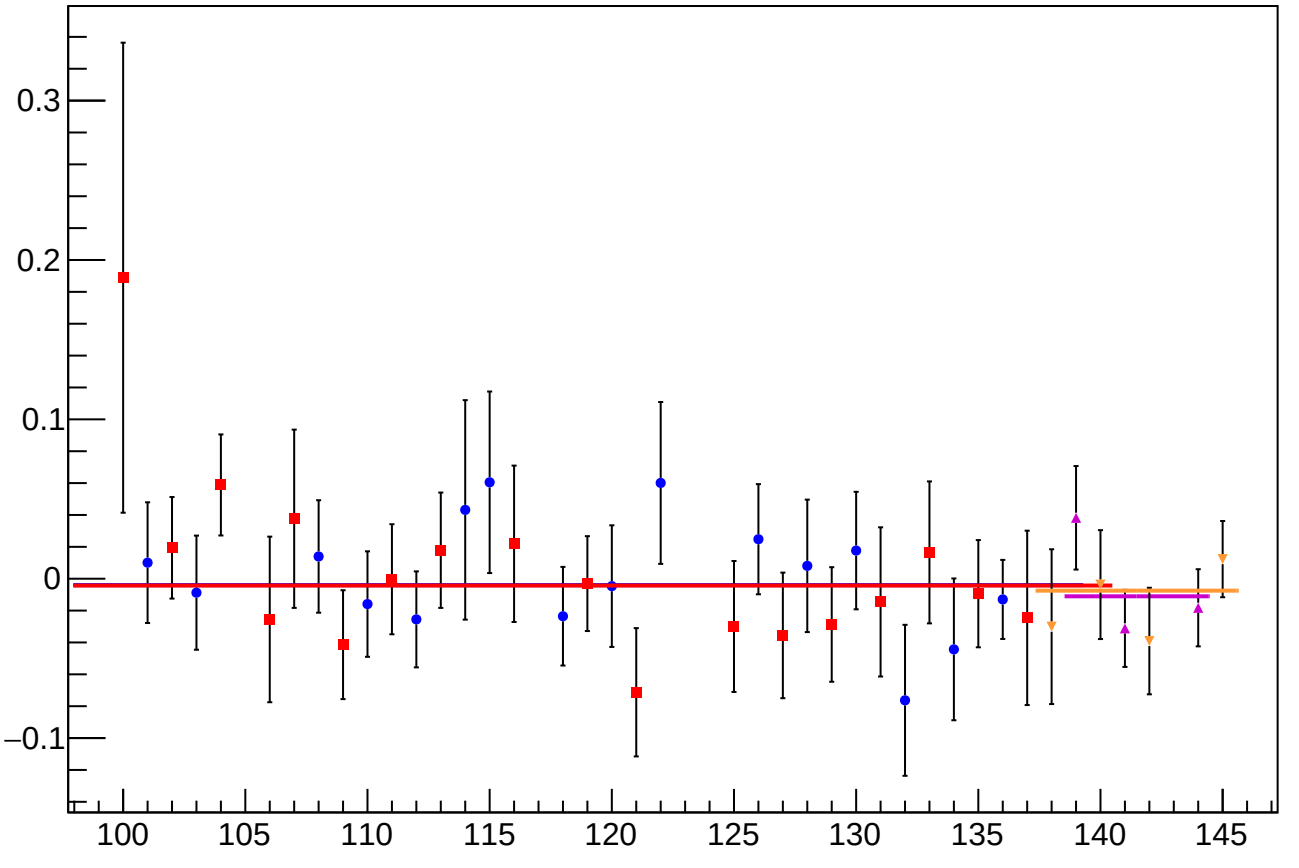
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2242543.6/15
Left Out: 0.000+/-0.000 χ²/NDF:94347.4/3
Right Out: 0.000+/-0.000 χ²/NDF: 5140446.0/17
Left In: 0.000+/-0.000 χ²/NDF:288689.6/2
Left: 0.000+/-0.000 χ²/NDF: 402413.7/6
Right: 0.000+/-0.000 χ²/NDF: 8399783.6/33
In: 0.000+/-0.000 χ²/NDF:4550350.5/18
Out: 0.000+/-0.000 χ²/NDF:5584677.2/21
All: 0.000+/-0.000 χ²/NDF: 10454135.7/40




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

Left Out: -0.007+/-0.016 $\chi^2$/NDF:1.8/3

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

Left In: -0.011+/-0.015 $\chi^2$/NDF:3.1/2

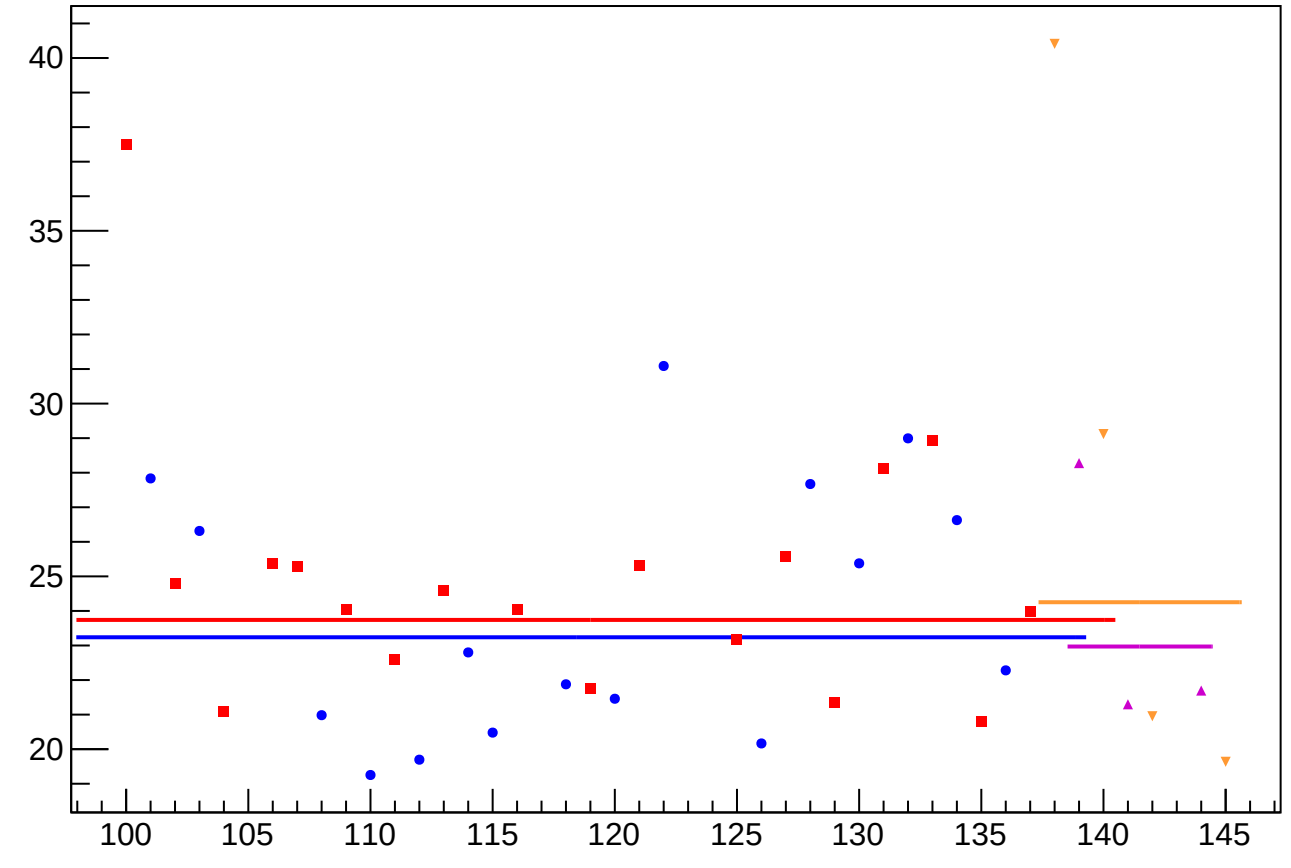
Left: -0.009+/-0.011 $\chi^2$/NDF: 4.9/6

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

In: -0.006+/-0.008 $\chi^2$/NDF:12.4/18

Out: -0.005+/-0.008 $\chi^2$/NDF:15.3/21

All: -0.006+/-0.006 $\chi^2$/NDF: 27.8/40




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

Left Out: 24.252+/-0.011 $\chi^2$/NDF:355960.4/3

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

Left In: 22.970+/-0.011 $\chi^2$/NDF:68498.0/2

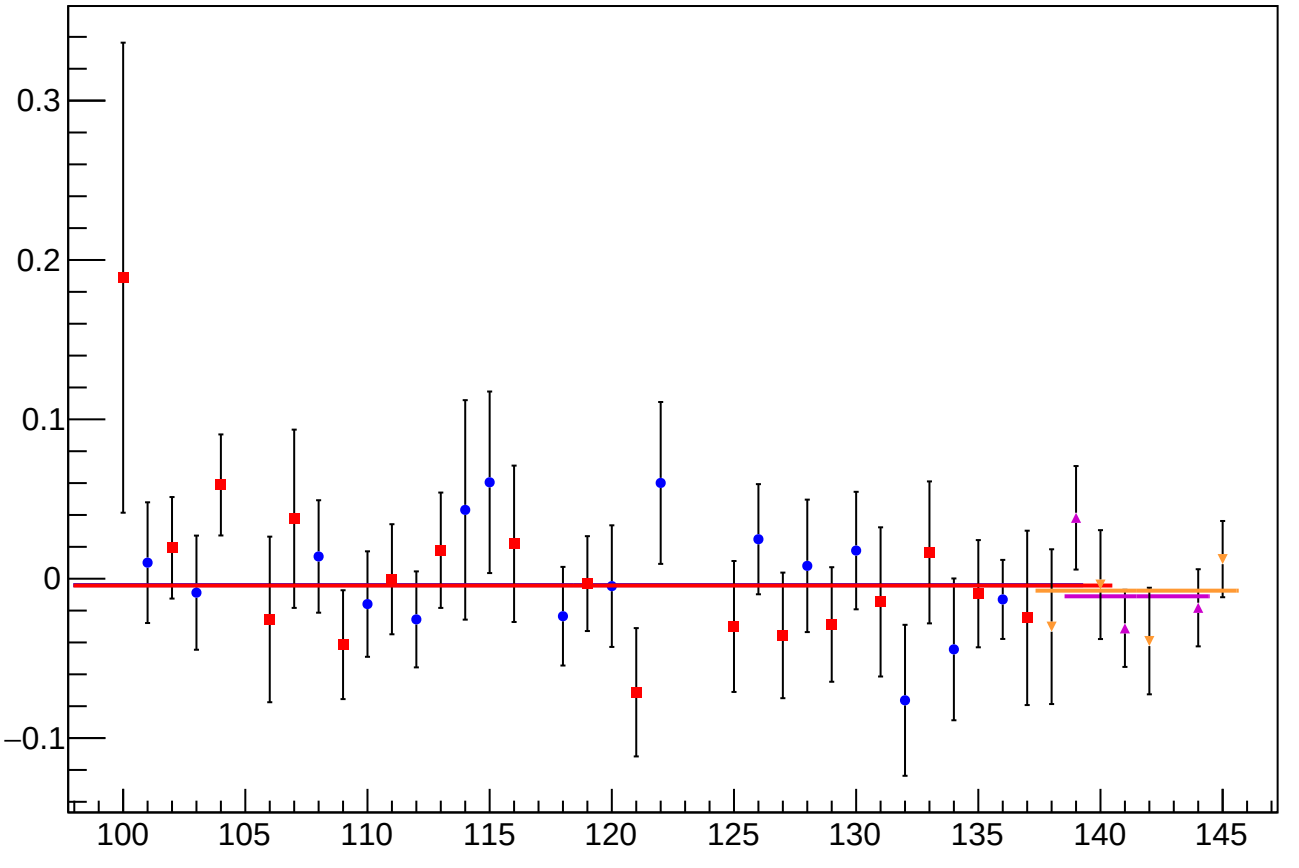
Left: 23.577+/-0.008 $\chi^2$/NDF: 431248.1/6

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

In: 23.165+/-0.006 $\chi^2$/NDF:328188.4/18

Out: 23.870+/-0.006 $\chi^2$/NDF:483678.4/21

All: 23.511+/-0.004 $\chi^2$/NDF: 819689.8/40




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

Left Out: -0.007+/-0.016 $\chi^2$/NDF:1.8/3

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

Left In: -0.011+/-0.015 $\chi^2$/NDF:3.1/2

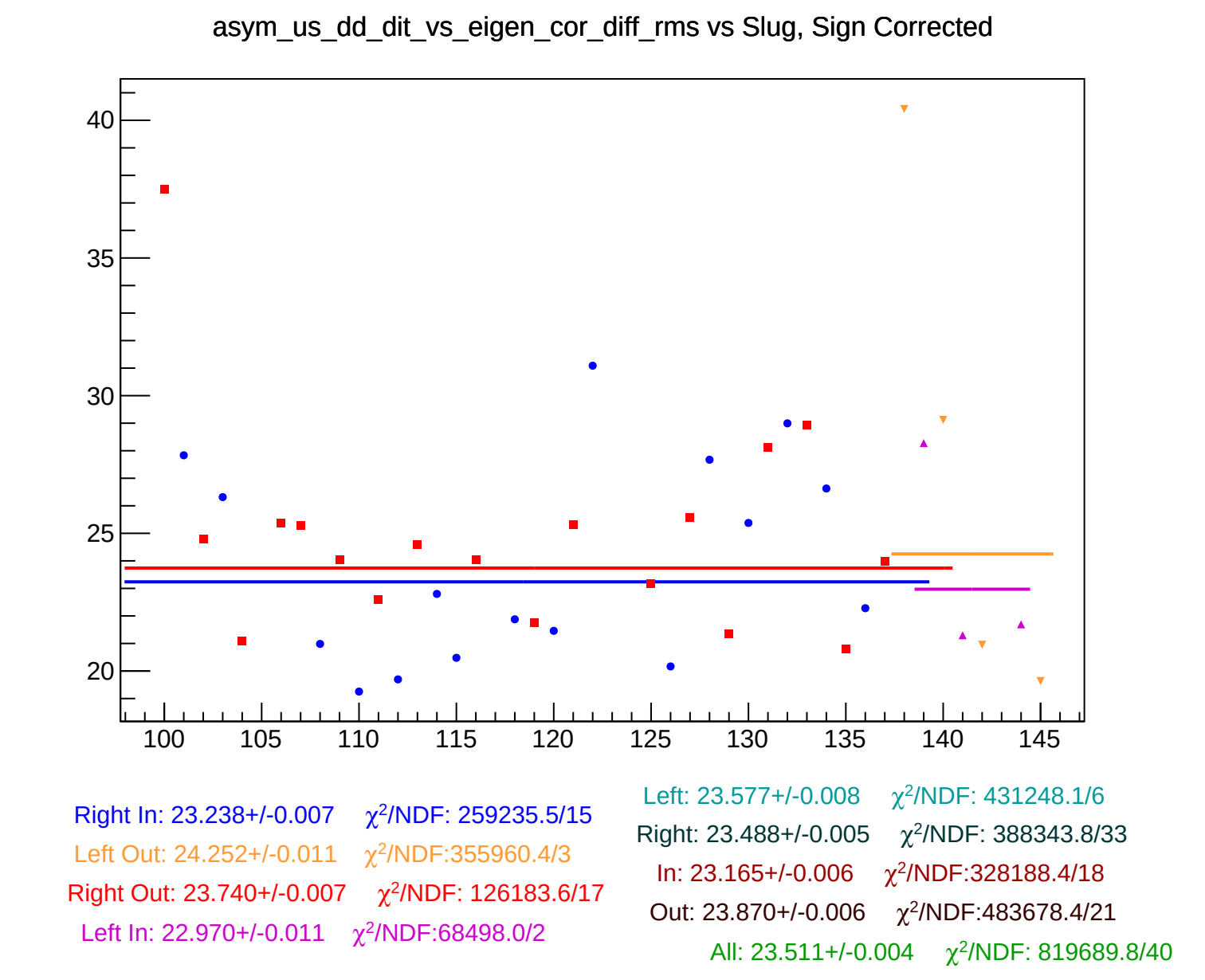
Left: -0.009+/-0.011 $\chi^2$/NDF: 4.9/6

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

In: -0.006+/-0.008 $\chi^2$/NDF:12.4/18

Out: -0.005+/-0.008 $\chi^2$/NDF:15.3/21

All: -0.006+/-0.006 $\chi^2$/NDF: 27.8/40


asym_us_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
40
35
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110
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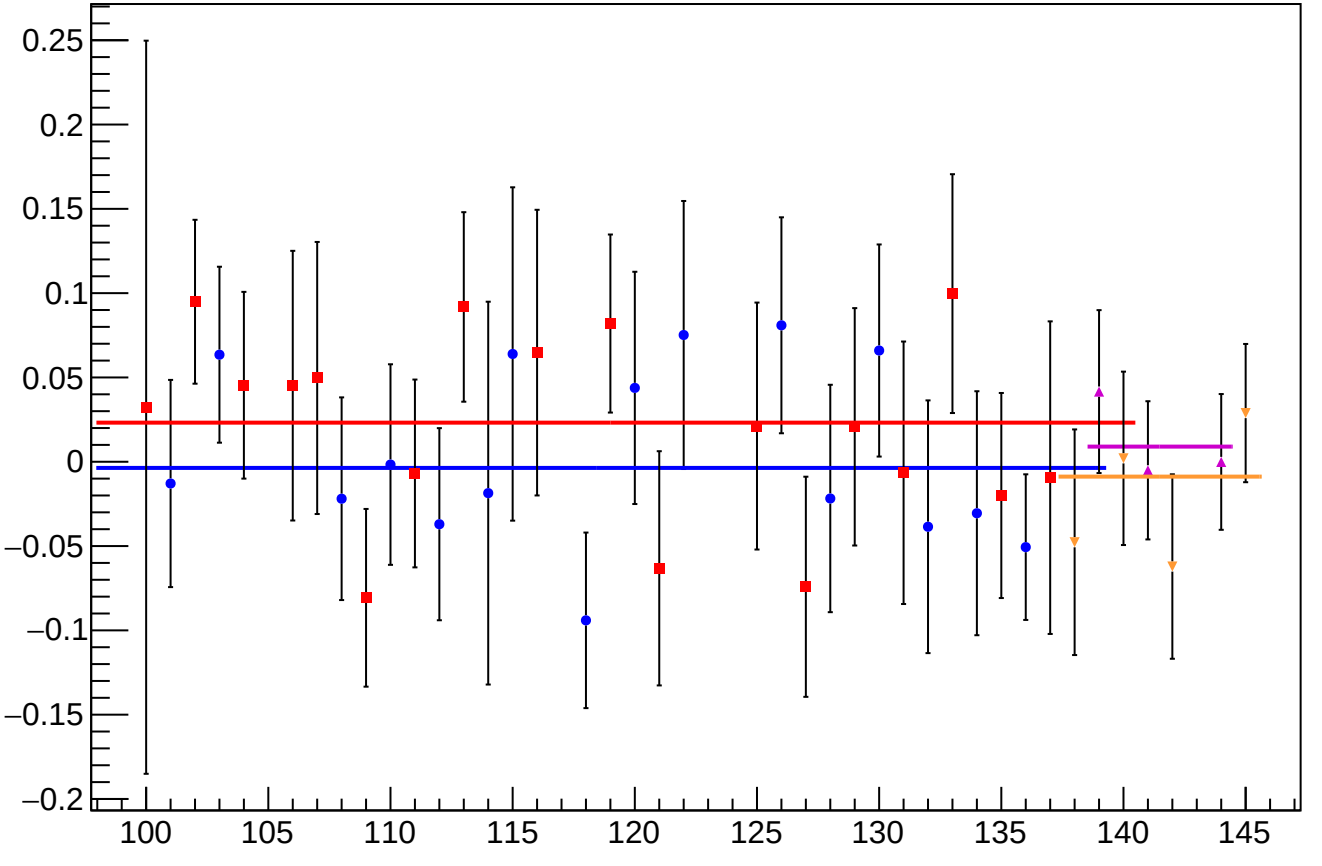
120
125
130
135
140
145
Right In: 23.238+/-0.007 χ²/NDF: 259235.5/15
Left Out: 24.252+/-0.011 χ²/NDF:355960.4/3
Right Out: 23.740+/-0.007 χ²/NDF: 126183.6/17
Left In: 22.970+/-0.011 χ²/NDF:68498.0/2
Left: 23.577+/-0.008 χ²/NDF: 431248.1/6
Right: 23.488+/-0.005 χ²/NDF: 388343.8/33
In: 23.165+/-0.006 χ²/NDF:328188.4/18
Out: 23.870+/-0.006 χ²/NDF:483678.4/21
All: 23.511+/-0.004 χ²/NDF: 819689.8/40

asym_us_dd_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




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

Left Out: -0.009+/-0.026 $\chi^2$/NDF:2.2/3

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

Left In: 0.009+/-0.025 $\chi^2$/NDF:0.6/2

Left: 0.000+/-0.018 $\chi^2$/NDF: 3.1/6

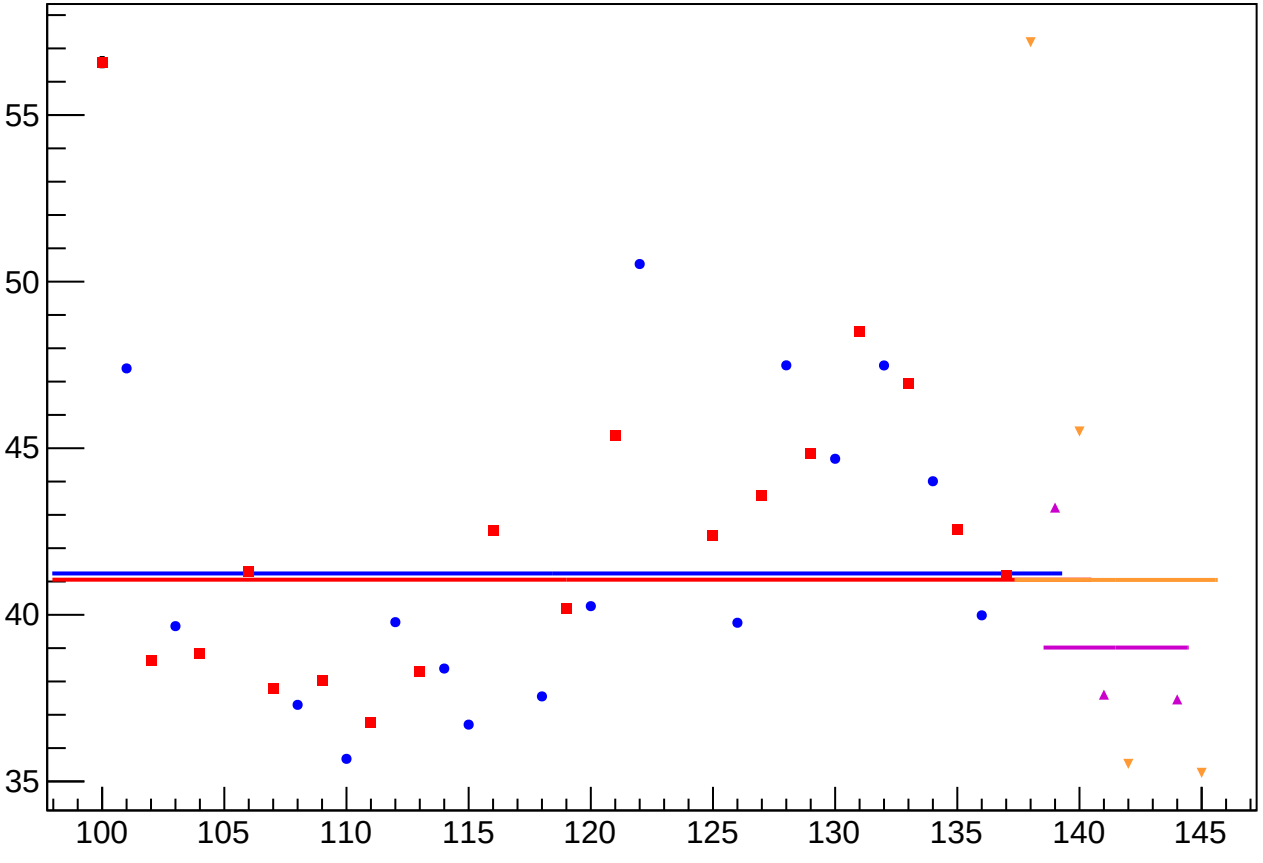
Right: 0.010+/-0.011 $\chi^2$/NDF: 28.5/33

In: 0.000+/-0.013 $\chi^2$/NDF:12.5/18

Out: 0.015+/-0.013 $\chi^2$/NDF:18.7/21

All: 0.007+/-0.009 $\chi^2$/NDF: 31.8/40

asym_us_dd_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




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

Left Out: 41.048+/-0.018 $\chi^2$/NDF:191621.0/3

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

Left In: 39.018+/-0.017 $\chi^2$/NDF:20490.3/2

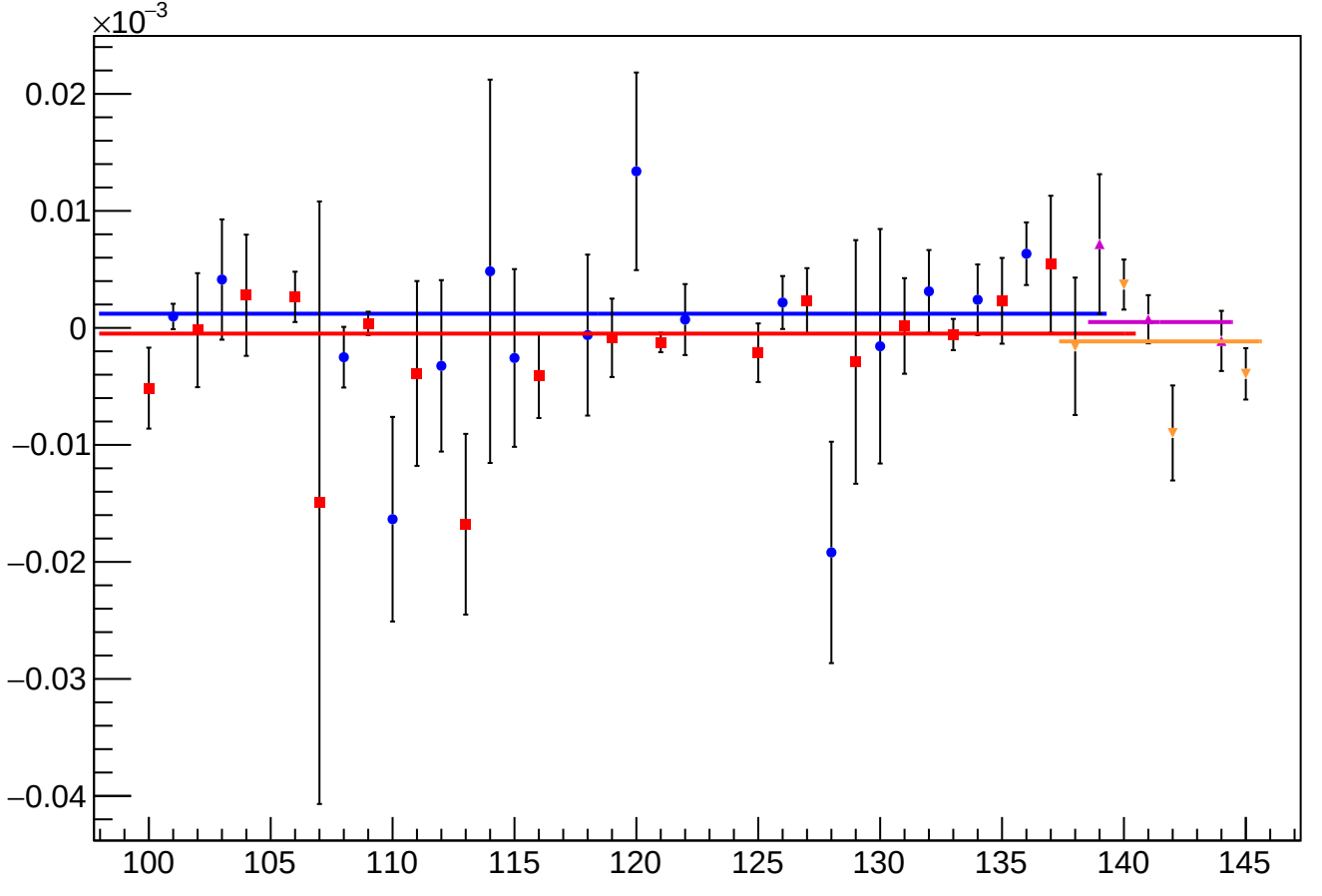
Left: 39.997+/-0.013 $\chi^2$/NDF: 218637.5/6

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

In: 40.599+/-0.009 $\chi^2$/NDF:167311.6/18

Out: 41.053+/-0.009 $\chi^2$/NDF:288181.7/21

All: 40.826+/-0.007 $\chi^2$/NDF: 456663.1/40




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

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.5/3

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

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.7/2

Left: -0.000+/-0.000 $\chi^2$/NDF: 12.7/6

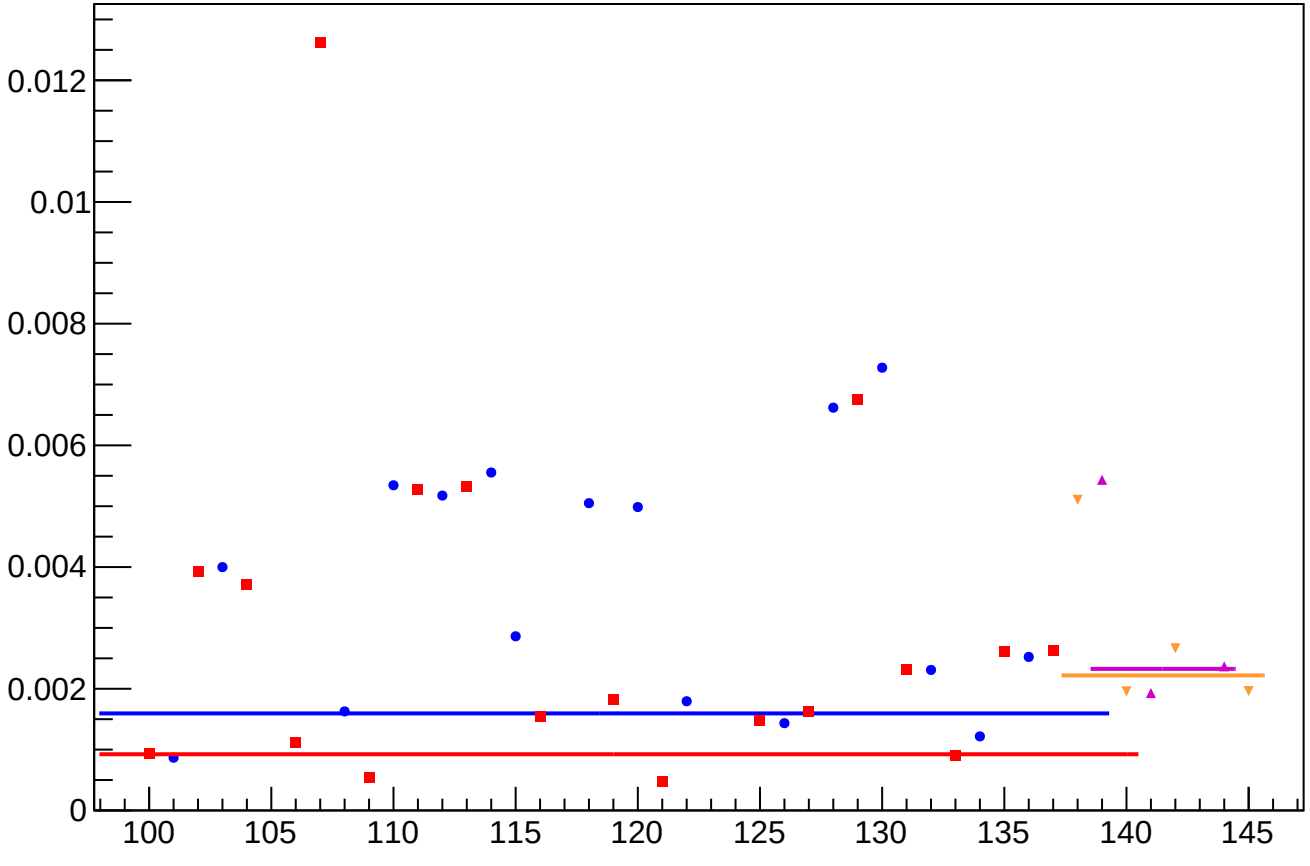
Right: 0.000+/-0.000 $\chi^2$/NDF: 36.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:20.2/18

Out: -0.000+/-0.000 $\chi^2$/NDF:25.6/21

All: -0.000+/-0.000 $\chi^2$/NDF: 49.8/40

asym_us_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




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

Left Out: 0.002+/-0.000 $\chi^2$/NDF:564863.6/3

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

Left In: 0.002+/-0.000 $\chi^2$/NDF:616974.7/2

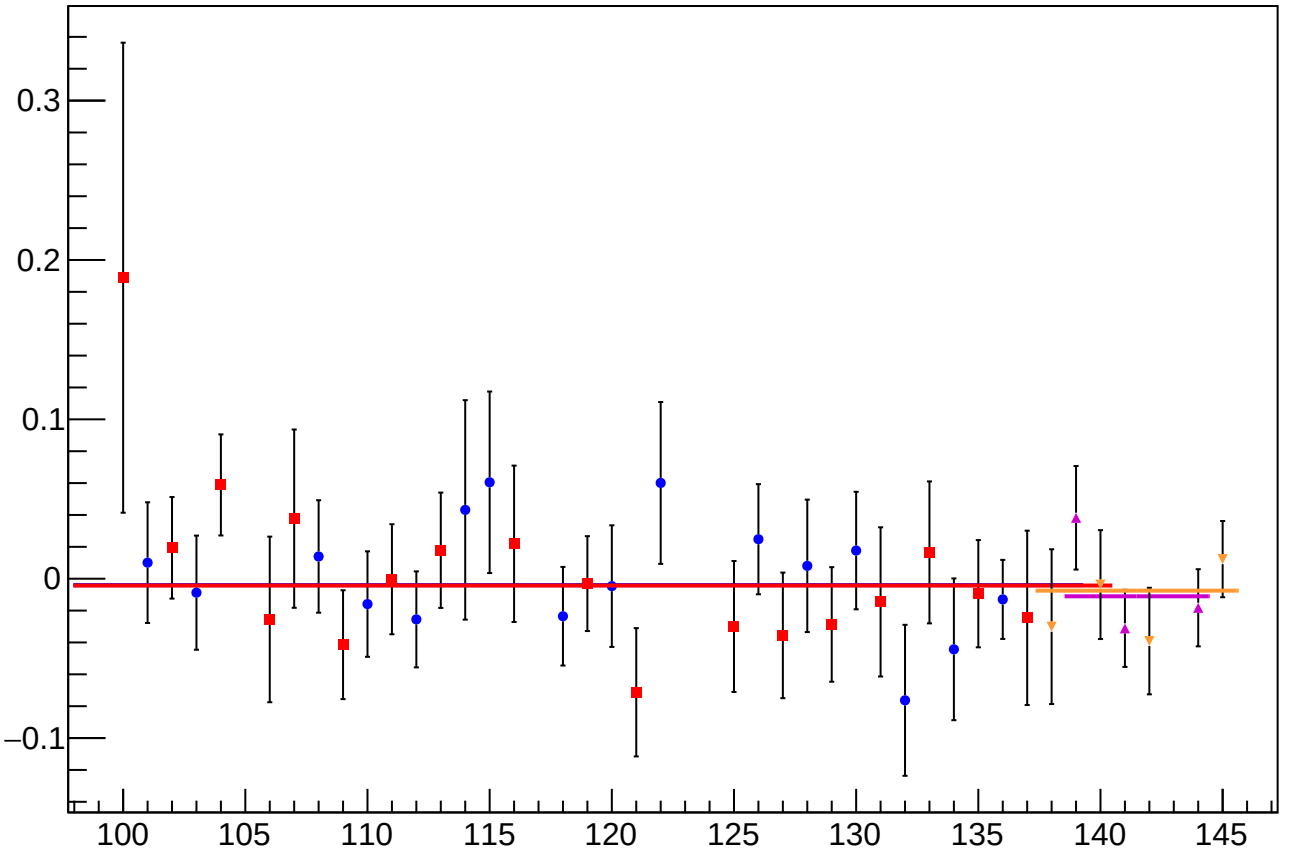
Left: 0.002+/-0.000 $\chi^2$/NDF: 1187102.4/6

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

In: 0.002+/-0.000 $\chi^2$/NDF:5739519.4/18

Out: 0.001+/-0.000 $\chi^2$/NDF:7880228.7/21

All: 0.001+/-0.000 $\chi^2$/NDF: 14923822.2/40




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

Left Out: -0.008+/-0.016 $\chi^2$/NDF:1.8/3

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

Left In: -0.011+/-0.015 $\chi^2$/NDF:3.1/2

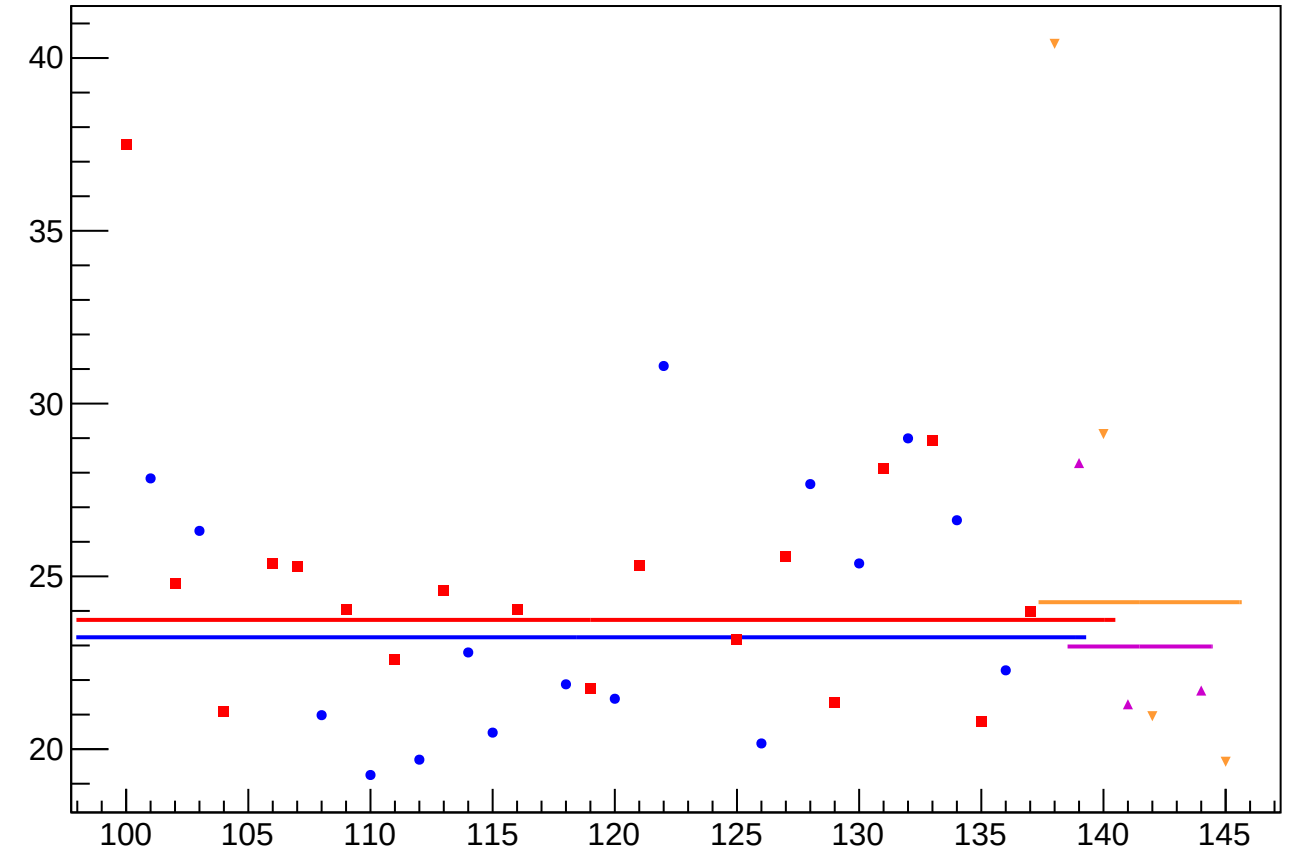
Left: -0.009+/-0.011 $\chi^2$/NDF: 4.9/6

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

In: -0.006+/-0.008 $\chi^2$/NDF:12.4/18

Out: -0.005+/-0.008 $\chi^2$/NDF:15.3/21

All: -0.006+/-0.006 $\chi^2$/NDF: 27.8/40




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

Left Out: 24.253+/-0.011 $\chi^2$/NDF:355945.1/3

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

Left In: 22.971+/-0.011 $\chi^2$/NDF:68520.4/2

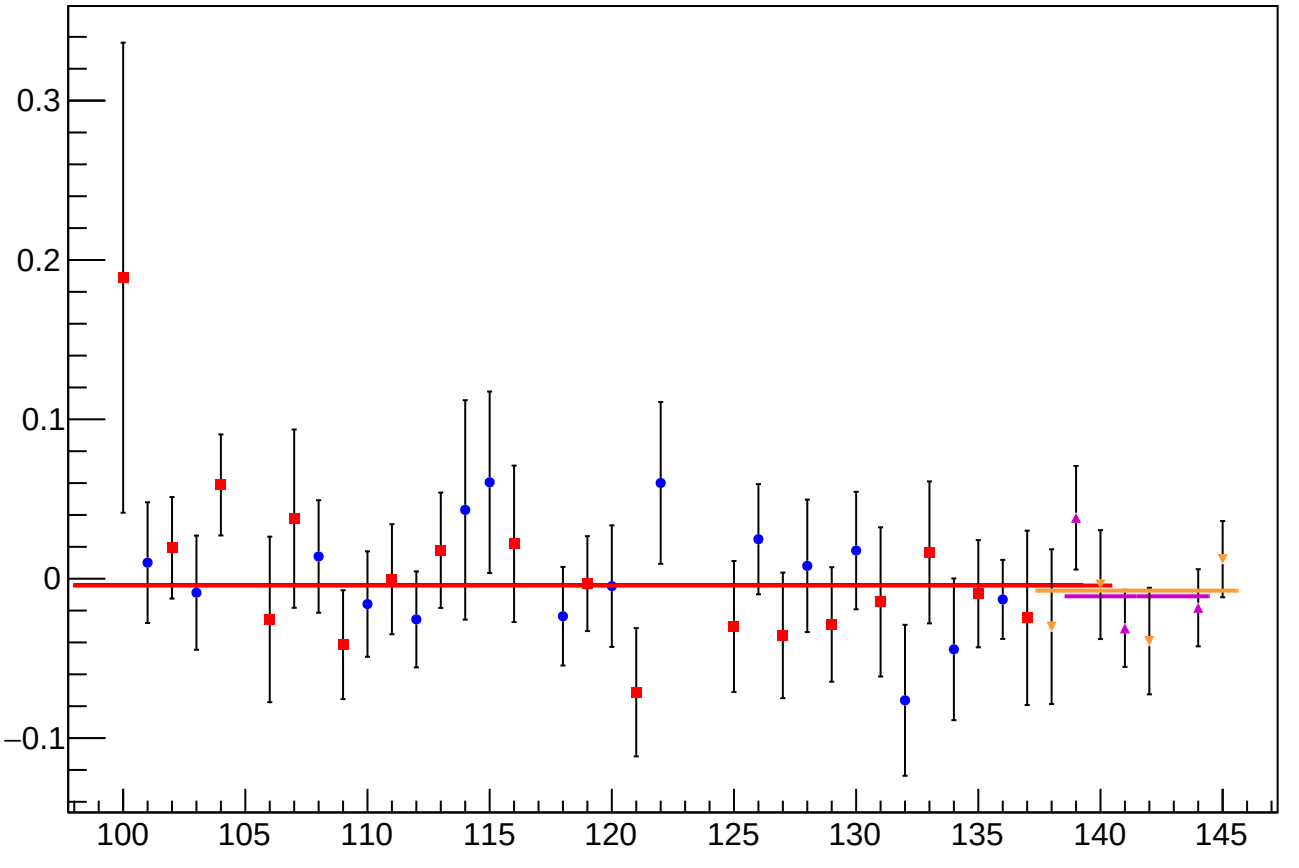
Left: 23.577+/-0.008 $\chi^2$/NDF: 431256.3/6

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

In: 23.165+/-0.006 $\chi^2$/NDF:328196.5/18

Out: 23.871+/-0.006 $\chi^2$/NDF:483612.9/21

All: 23.511+/-0.004 $\chi^2$/NDF: 819647.4/40




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

Left Out: -0.008+/-0.016 $\chi^2$/NDF:1.8/3

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

Left In: -0.011+/-0.015 $\chi^2$/NDF:3.1/2

Left: -0.009+/-0.011 $\chi^2$/NDF: 4.9/6

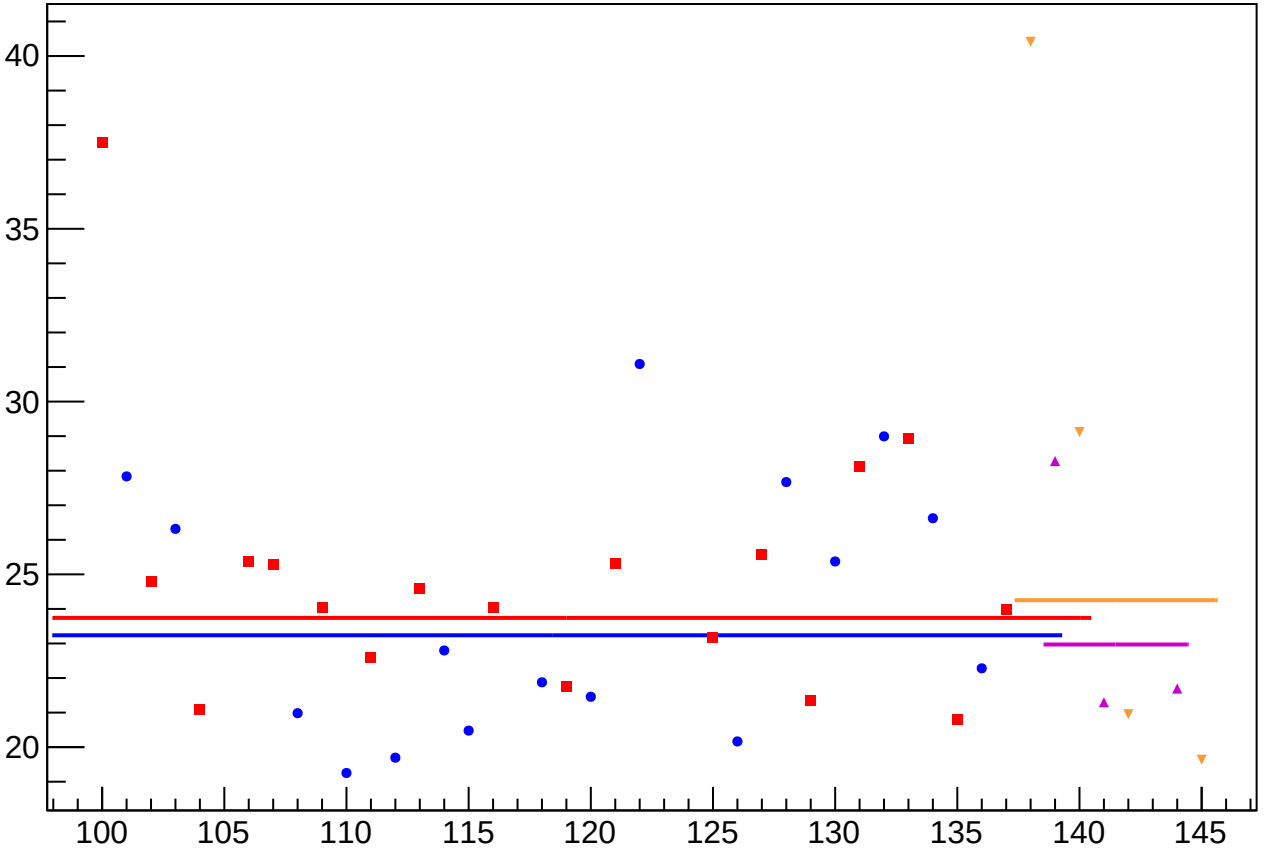
Right: -0.004+/-0.007 $\chi^2$/NDF: 22.7/33

In: -0.006+/-0.008 $\chi^2$/NDF:12.4/18

Out: -0.005+/-0.008 $\chi^2$/NDF:15.3/21

All: -0.006+/-0.006 $\chi^2$/NDF: 27.8/40

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




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

Left Out: 24.253+/-0.011 $\chi^2$/NDF:355945.1/3

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

Left In: 22.971+/-0.011 $\chi^2$/NDF:68520.4/2

Left: 23.577+/-0.008 $\chi^2$/NDF: 431256.3/6

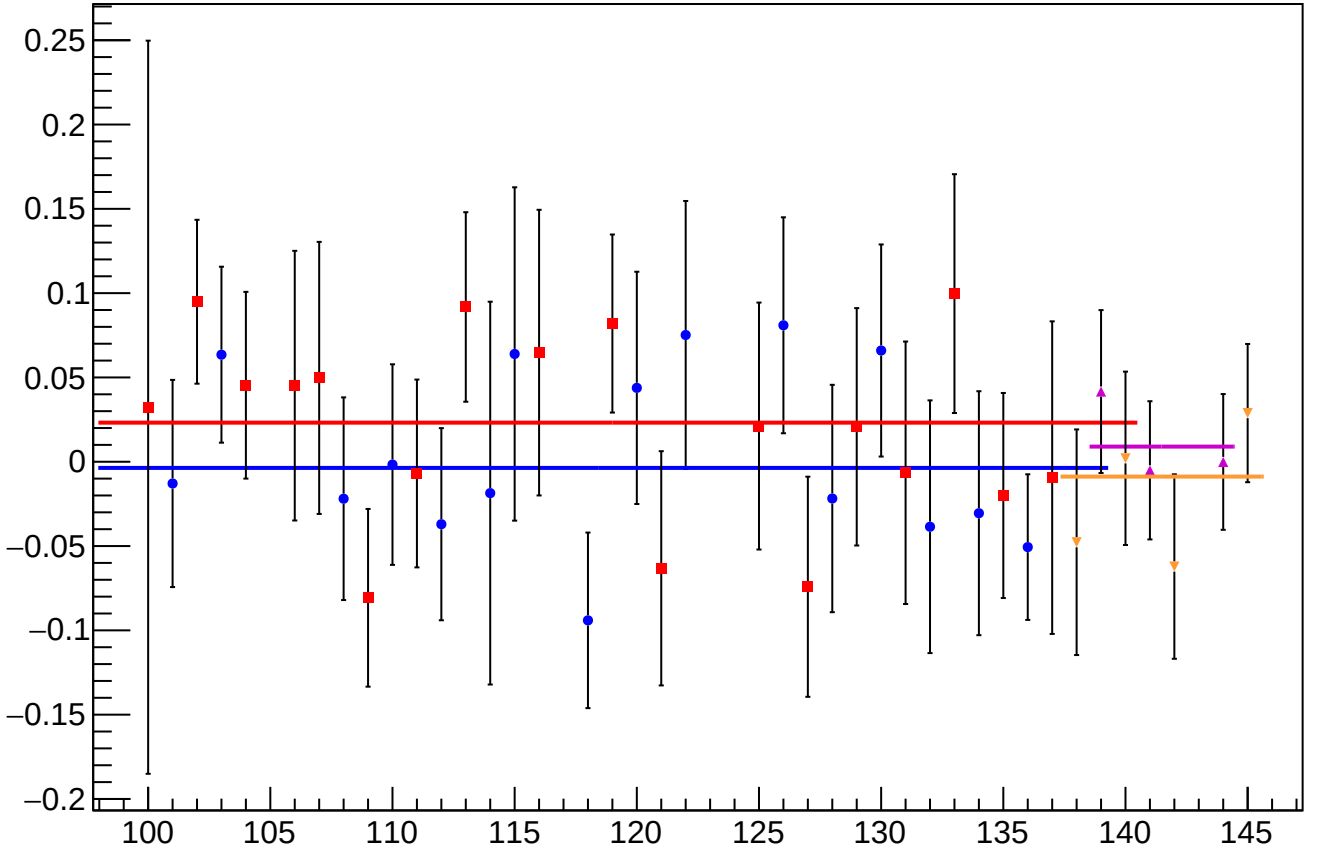
Right: 23.487+/-0.005 $\chi^2$/NDF: 388292.2/33

In: 23.165+/-0.006 $\chi^2$/NDF:328196.5/18

Out: 23.871+/-0.006 $\chi^2$/NDF:483612.9/21

All: 23.511+/-0.004 $\chi^2$/NDF: 819647.4/40

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: -0.009+/-0.026 $\chi^2$/NDF:2.2/3

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

Left In: 0.009+/-0.025 $\chi^2$/NDF:0.6/2

Left: 0.000+/-0.018 $\chi^2$/NDF: 3.1/6

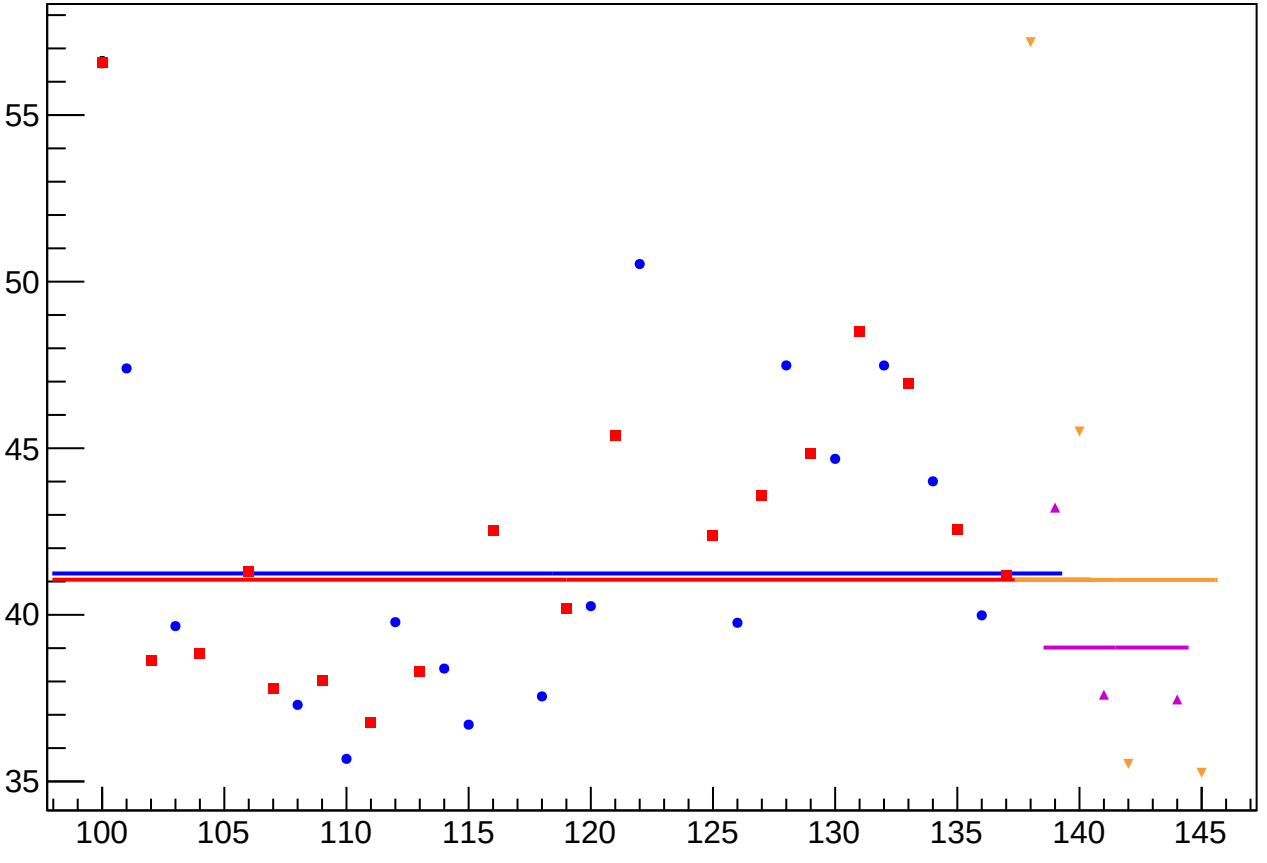
Right: 0.010+/-0.011 $\chi^2$/NDF: 28.5/33

In: 0.000+/-0.013 $\chi^2$/NDF:12.5/18

Out: 0.015+/-0.013 $\chi^2$/NDF:18.7/21

All: 0.007+/-0.009 $\chi^2$/NDF: 31.8/40

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




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

Left Out: 41.048+/-0.018 $\chi^2$/NDF:191619.0/3

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

Left In: 39.018+/-0.017 $\chi^2$/NDF:20496.1/2

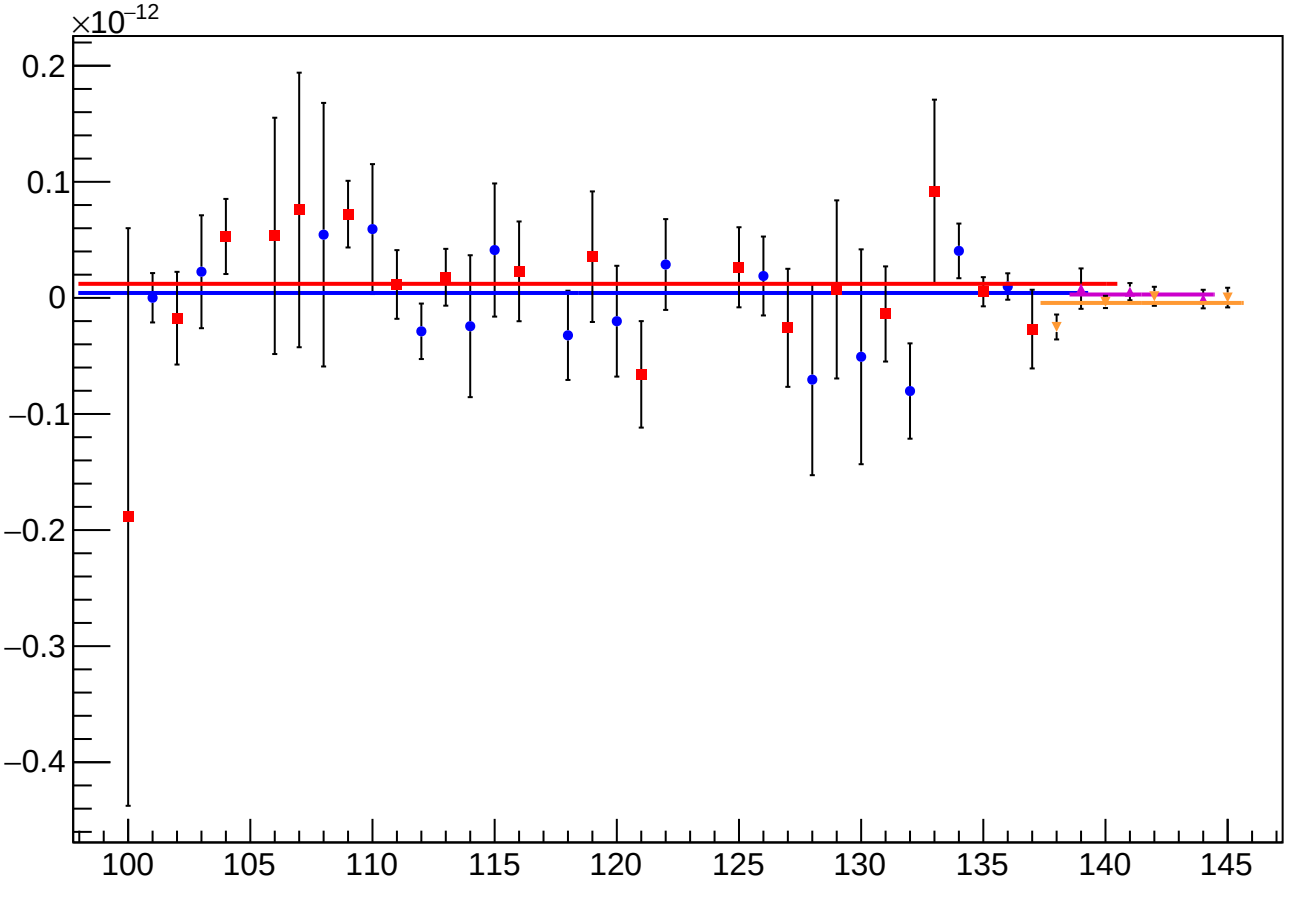
Left: 39.998+/-0.013 $\chi^2$/NDF: 218640.8/6

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

In: 40.599+/-0.009 $\chi^2$/NDF:167290.8/18

Out: 41.053+/-0.009 $\chi^2$/NDF:288168.6/21

All: 40.826+/-0.007 $\chi^2$/NDF: 456629.6/40




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

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.5/3

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

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.4/2

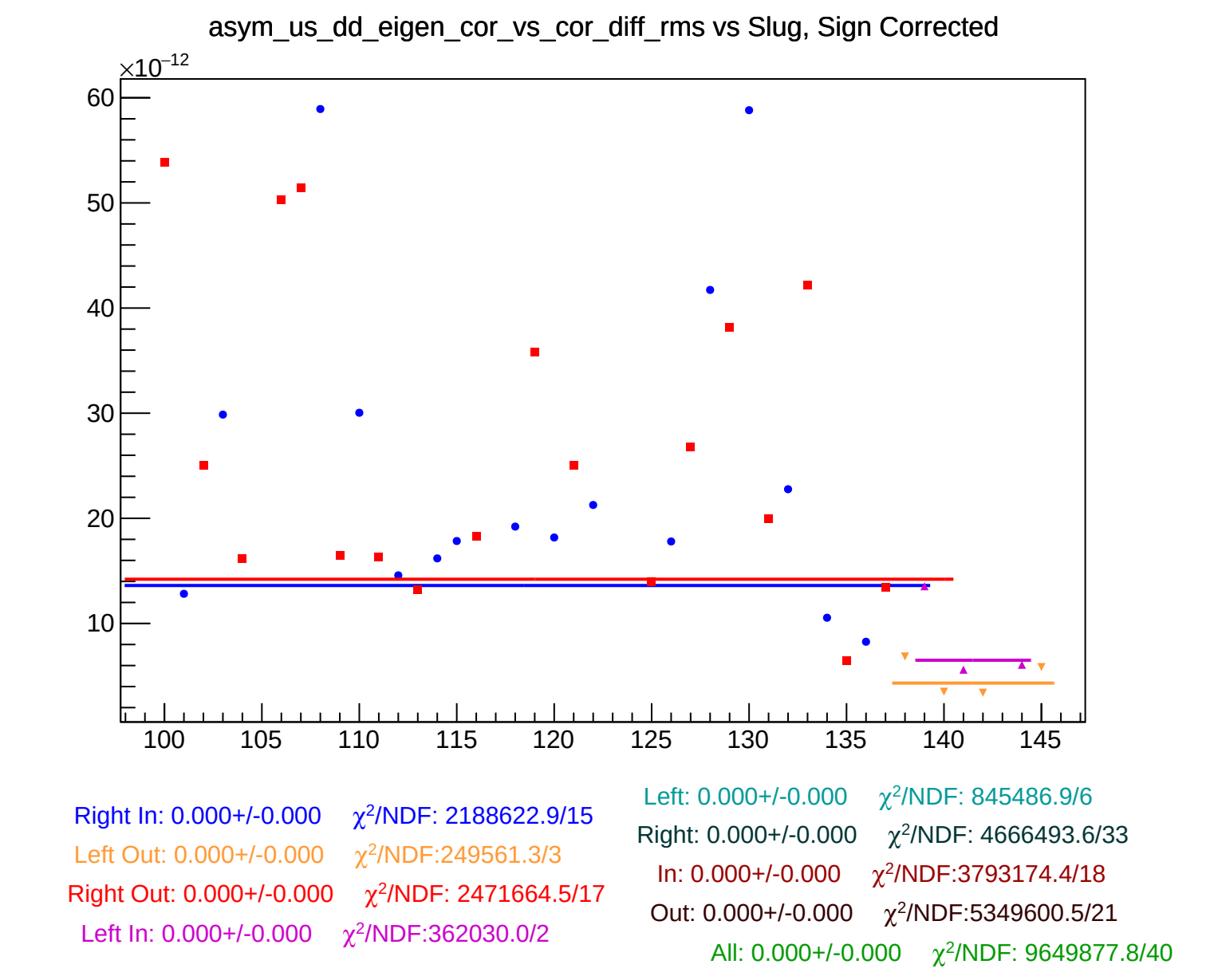
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.3/6

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

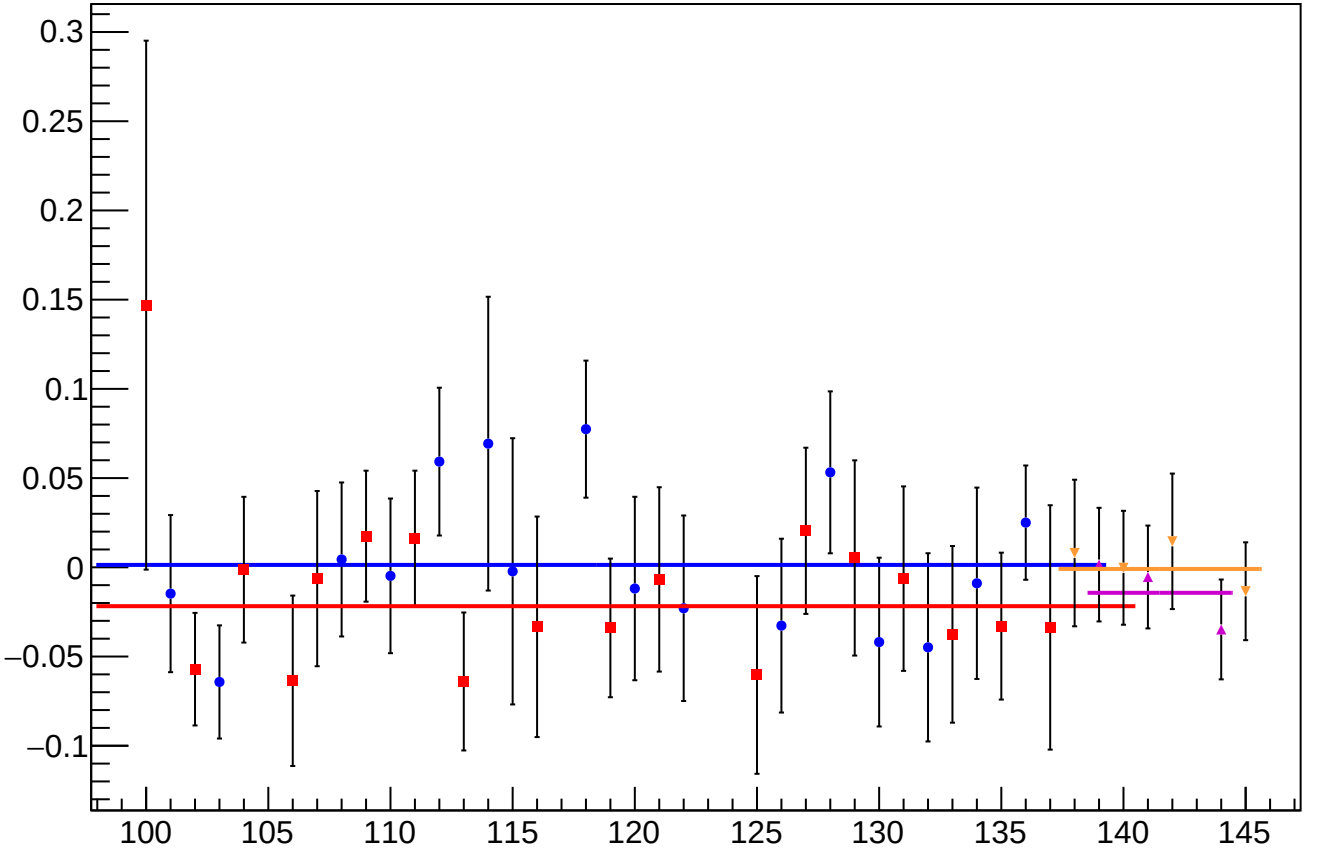
In: 0.000+/-0.000 $\chi^2$/NDF:14.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:22.7/21

All: 0.000+/-0.000 $\chi^2$/NDF: 37.6/40


asym_us_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2188622.9/15
Left Out: 0.000+/-0.000 χ²/NDF:249561.3/3
Right Out: 0.000+/-0.000 χ²/NDF: 2471664.5/17
Left In: 0.000+/-0.000 χ²/NDF:362030.0/2
Left: 0.000+/-0.000 χ²/NDF: 845486.9/6
Right: 0.000+/-0.000 χ²/NDF: 4666493.6/33
In: 0.000+/-0.000 χ²/NDF:3793174.4/18
Out: 0.000+/-0.000 χ²/NDF:5349600.5/21
All: 0.000+/-0.000 χ²/NDF: 9649877.8/40

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: -0.001+/-0.017 $\chi^2$/NDF:0.4/3

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

Left In: -0.014+/-0.017 $\chi^2$/NDF:0.9/2

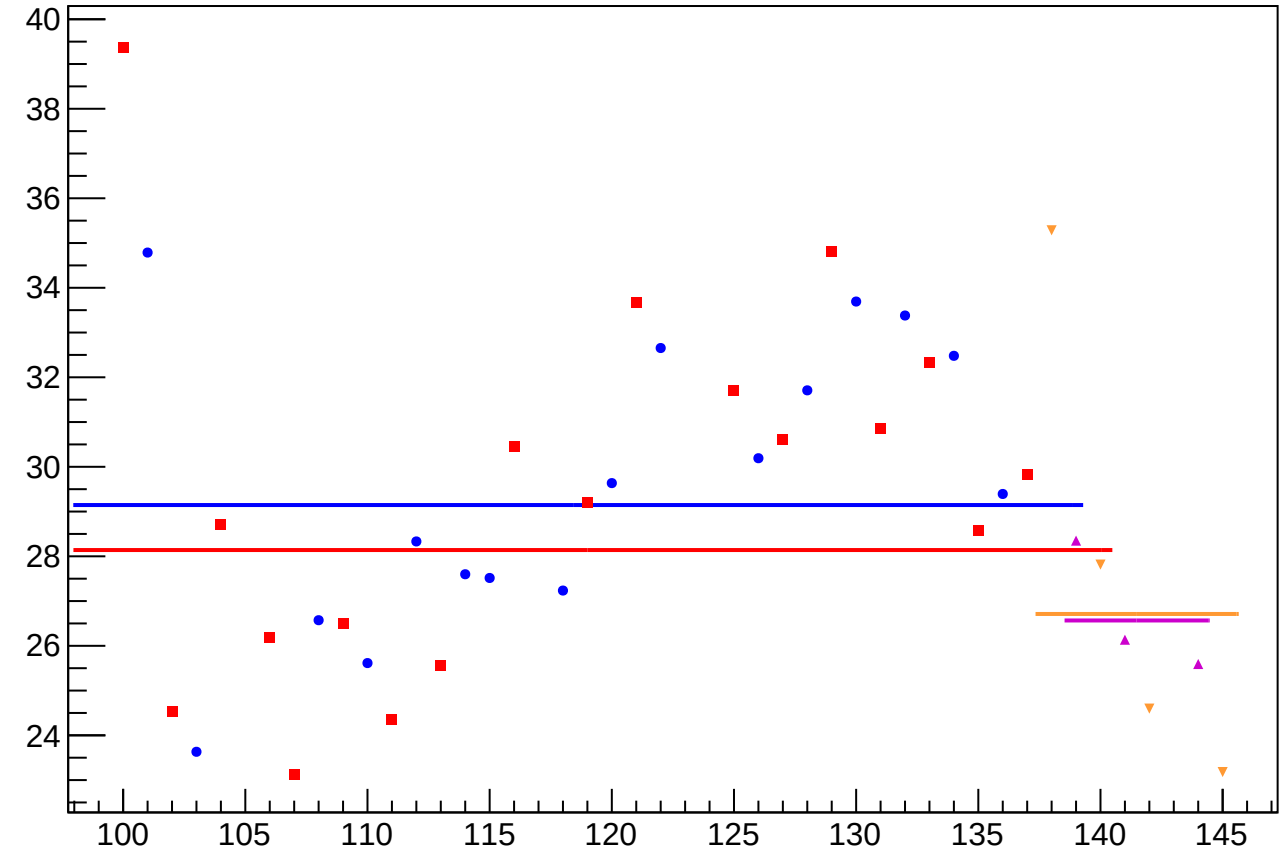
Left: -0.007+/-0.012 $\chi^2$/NDF: 1.6/6

Right: -0.011+/-0.008 $\chi^2$/NDF: 26.5/33

In: -0.003+/-0.009 $\chi^2$/NDF:16.7/18

Out: -0.016+/-0.009 $\chi^2$/NDF:10.6/21

All: -0.010+/-0.007 $\chi^2$/NDF: 28.2/40




Right In: 29.146+/-0.008 $\chi^2$/NDF: 176889.4/15

Left Out: 26.712+/-0.012 $\chi^2$/NDF:128919.5/3

Right Out: 28.140+/-0.008 $\chi^2$/NDF: 187103.8/17

Left In: 26.566+/-0.012 $\chi^2$/NDF:9140.7/2

Left: 26.640+/-0.008 $\chi^2$/NDF: 138134.7/6

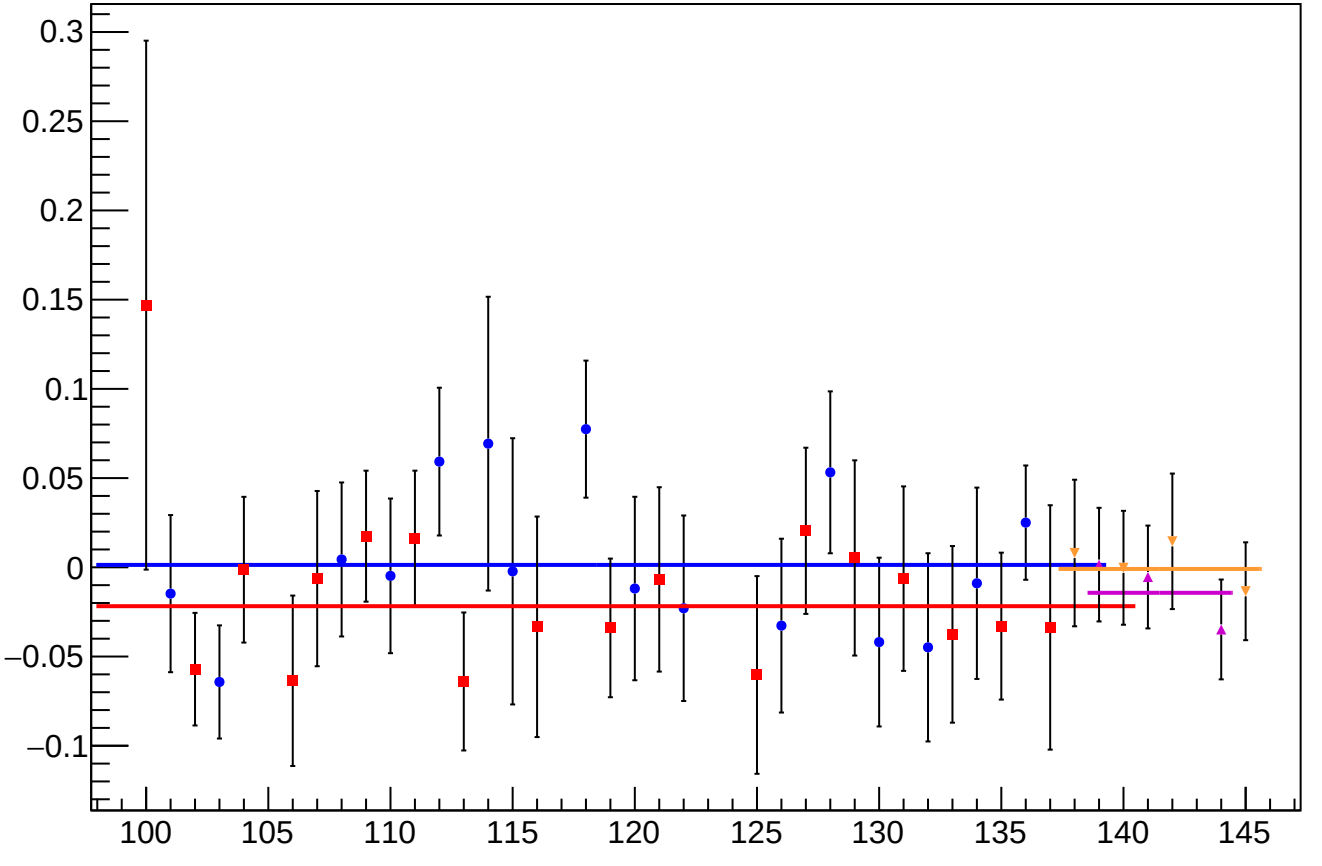
Right: 28.623+/-0.005 $\chi^2$/NDF: 372352.6/33

In: 28.362+/-0.007 $\chi^2$/NDF:218161.1/18

Out: 27.719+/-0.006 $\chi^2$/NDF:326376.4/21

All: 28.030+/-0.005 $\chi^2$/NDF: 549424.3/40

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: -0.001+/-0.017 $\chi^2$/NDF:0.4/3

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

Left In: -0.014+/-0.017 $\chi^2$/NDF:0.9/2

Left: -0.007+/-0.012 $\chi^2$/NDF: 1.6/6

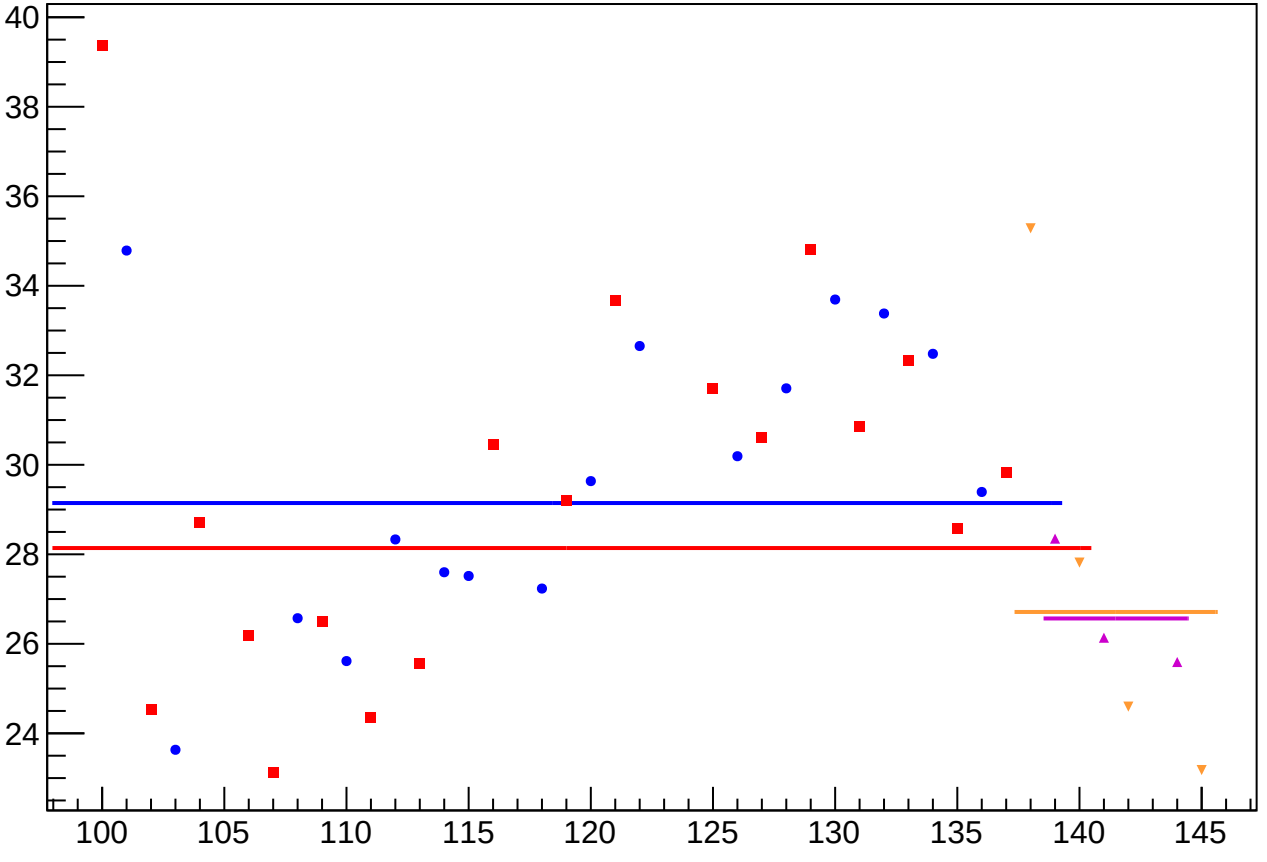
Right: -0.011+/-0.008 $\chi^2$/NDF: 26.5/33

In: -0.003+/-0.009 $\chi^2$/NDF:16.7/18

Out: -0.016+/-0.009 $\chi^2$/NDF:10.6/21

All: -0.010+/-0.007 $\chi^2$/NDF: 28.2/40

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: 26.712+/-0.012 $\chi^2$/NDF:128919.5/3

Right Out: 28.140+/-0.008 $\chi^2$/NDF: 187103.8/17

Left In: 26.566+/-0.012 $\chi^2$/NDF:9140.7/2

Left: 26.640+/-0.008 $\chi^2$/NDF: 138134.7/6

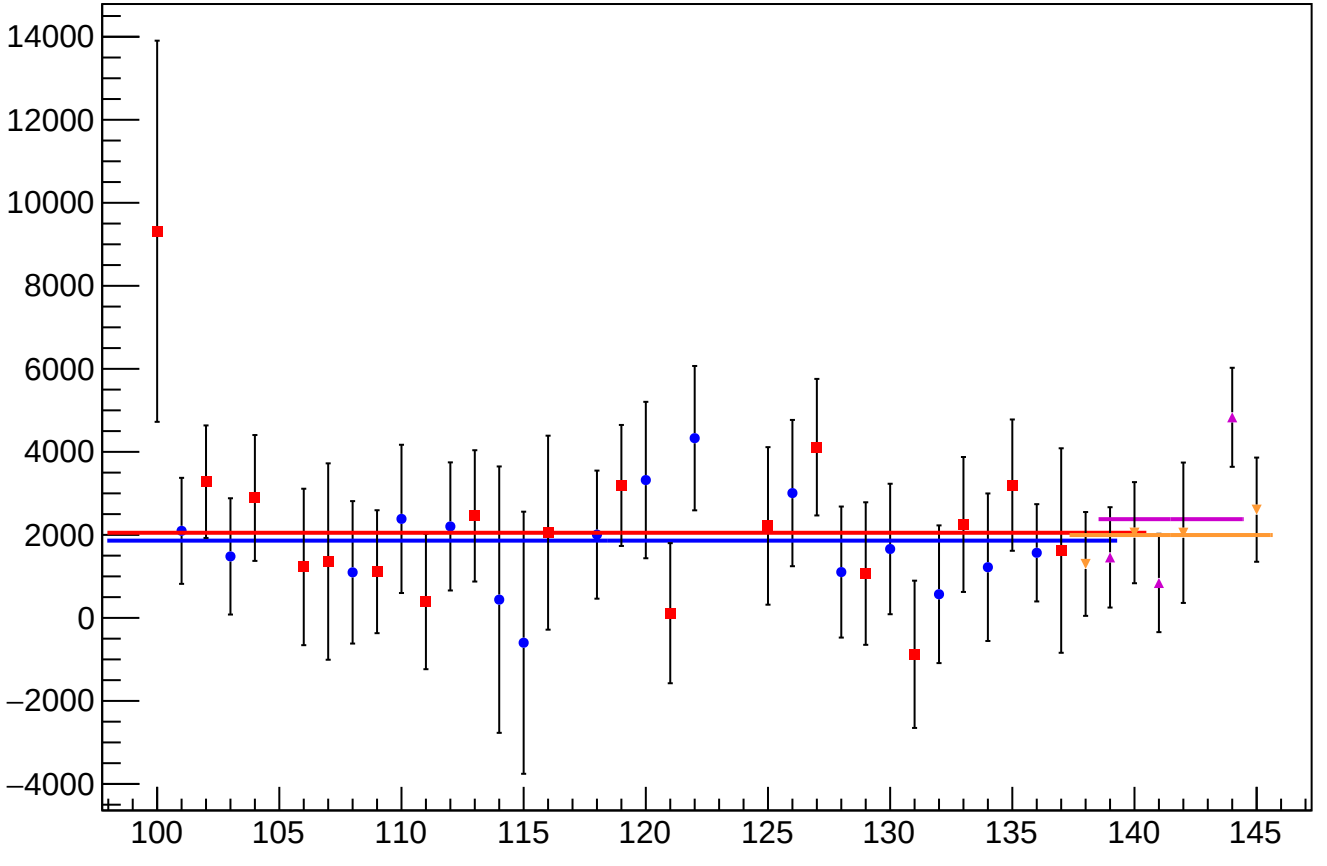
Right: 28.623+/-0.005 $\chi^2$/NDF: 372352.6/33

In: 28.362+/-0.007 $\chi^2$/NDF:218161.1/18

Out: 27.719+/-0.006 $\chi^2$/NDF:326376.4/21

All: 28.030+/-0.005 $\chi^2$/NDF: 549424.3/40

# reg_asym_usl_mean vs Slug, Sign Corrected




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1996.320+/-659.700 $\chi^2$/NDF:0.6/3

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 2378.509+/-690.170 $\chi^2$/NDF:6.5/2

Left: 2178.792+/-476.886 $\chi^2$/NDF: 7.2/6

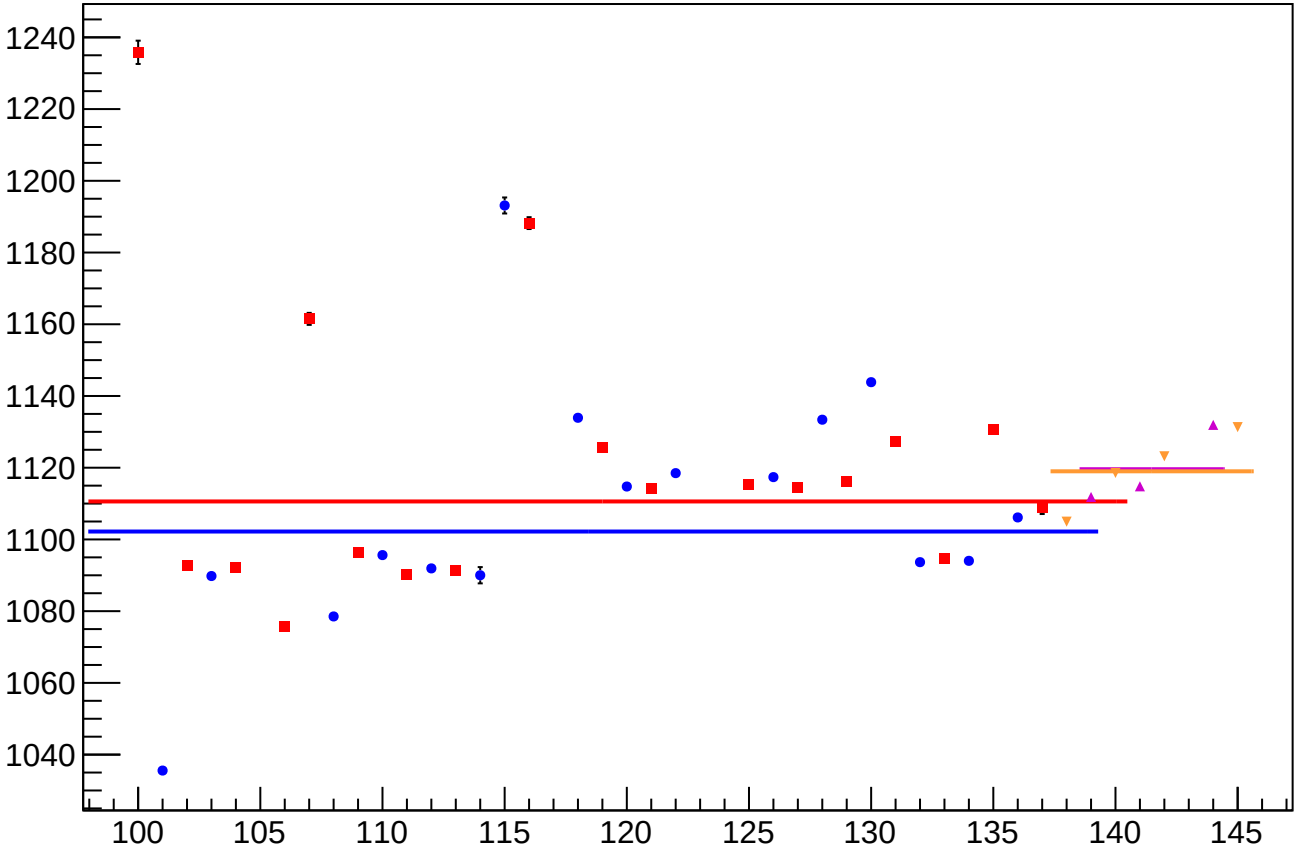
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1996.148+/-352.190 $\chi^2$/NDF:12.2/18

Out: 2035.690+/-347.766 $\chi^2$/NDF:13.1/21

All: 2016.169+/-247.457 $\chi^2$/NDF: 25.3/40

# reg_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1118.997+/-0.466 $\chi^2$/NDF:457.3/3

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1119.581+/-0.488 $\chi^2$/NDF:329.2/2

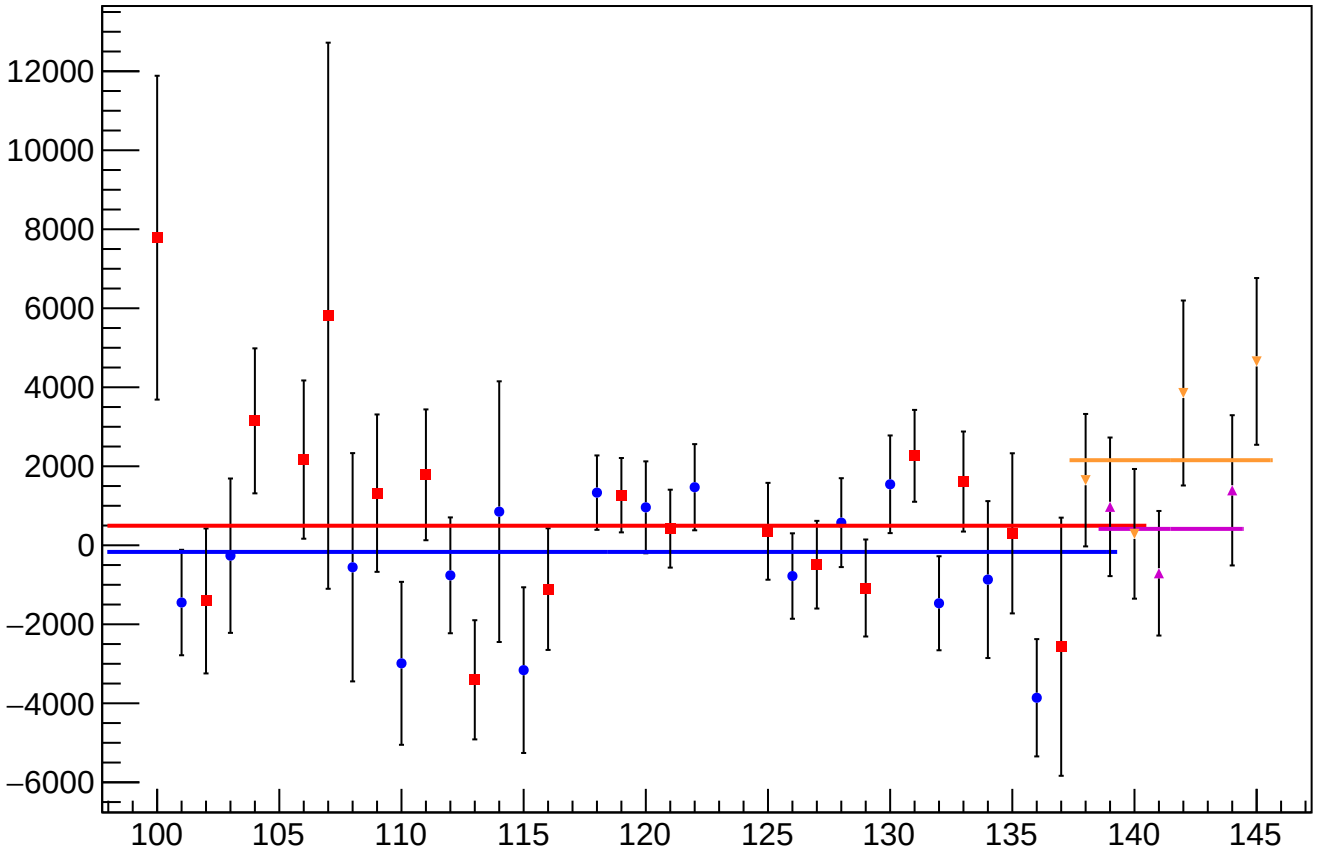
Left: 1119.276+/-0.337 $\chi^2$/NDF: 787.3/6

Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1106.730+/-0.249 $\chi^2$/NDF:12615.8/18

Out: 1112.927+/-0.246 $\chi^2$/NDF:8387.8/21

All: 1109.868+/-0.175 $\chi^2$/NDF: 21317.1/40




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: 2154.019+/-939.118 $\chi^2$/NDF:3.3/3

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 415.055+/-998.218 $\chi^2$/NDF:0.9/2

Left: 1337.535+/-683.996 $\chi^2$/NDF: 5.8/6

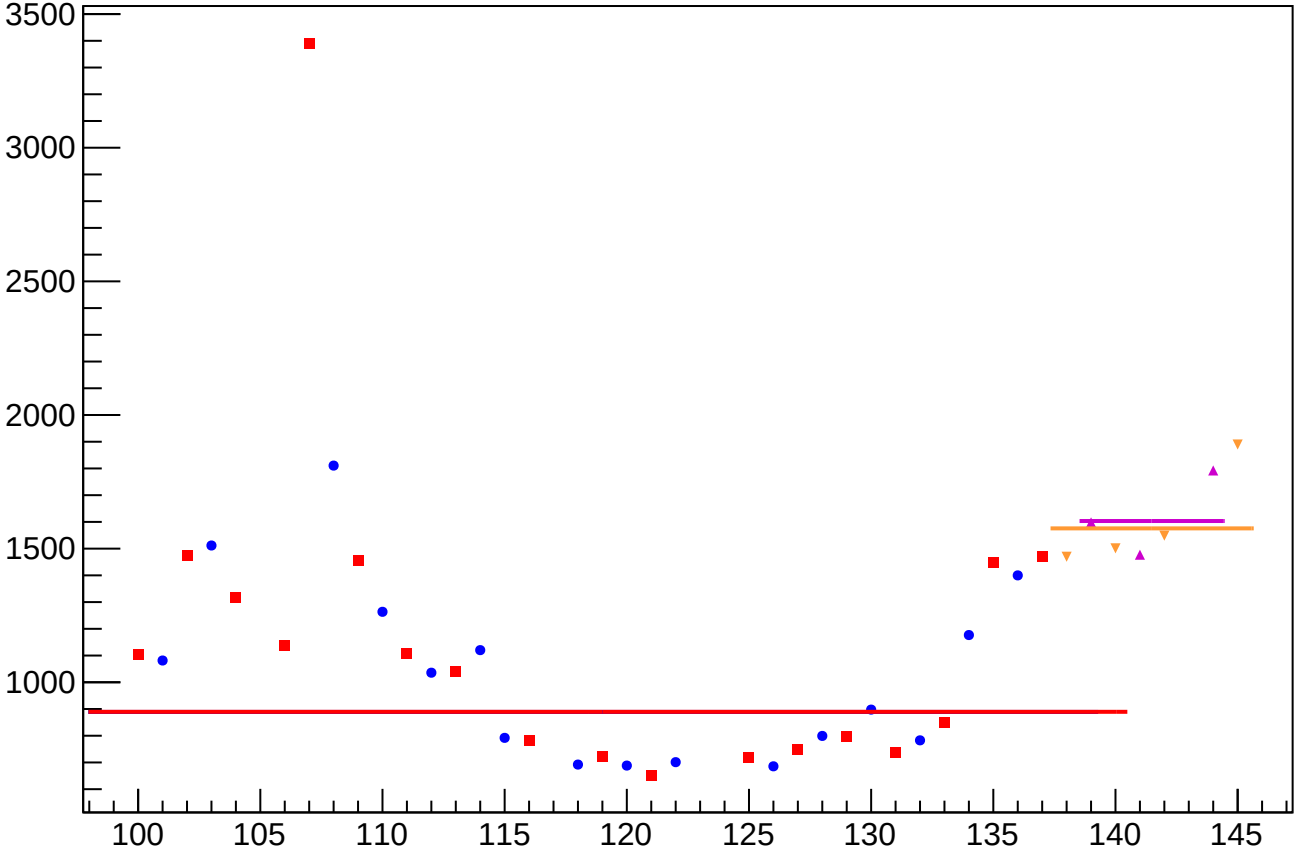
Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: -105.546+/-326.447 $\chi^2$/NDF:22.2/18

Out: 692.480+/-323.884 $\chi^2$/NDF:29.3/21

All: 296.612+/-229.921 $\chi^2$/NDF: 54.5/40

# asym_usl_reg_correction_rms vs Slug, Sign Corrected




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1575.784+/-0.664 $\chi^2$/NDF:56626.3/3

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1603.332+/-0.706 $\chi^2$/NDF:32585.6/2

Left: 1588.718+/-0.484 $\chi^2$/NDF: 90020.0/6

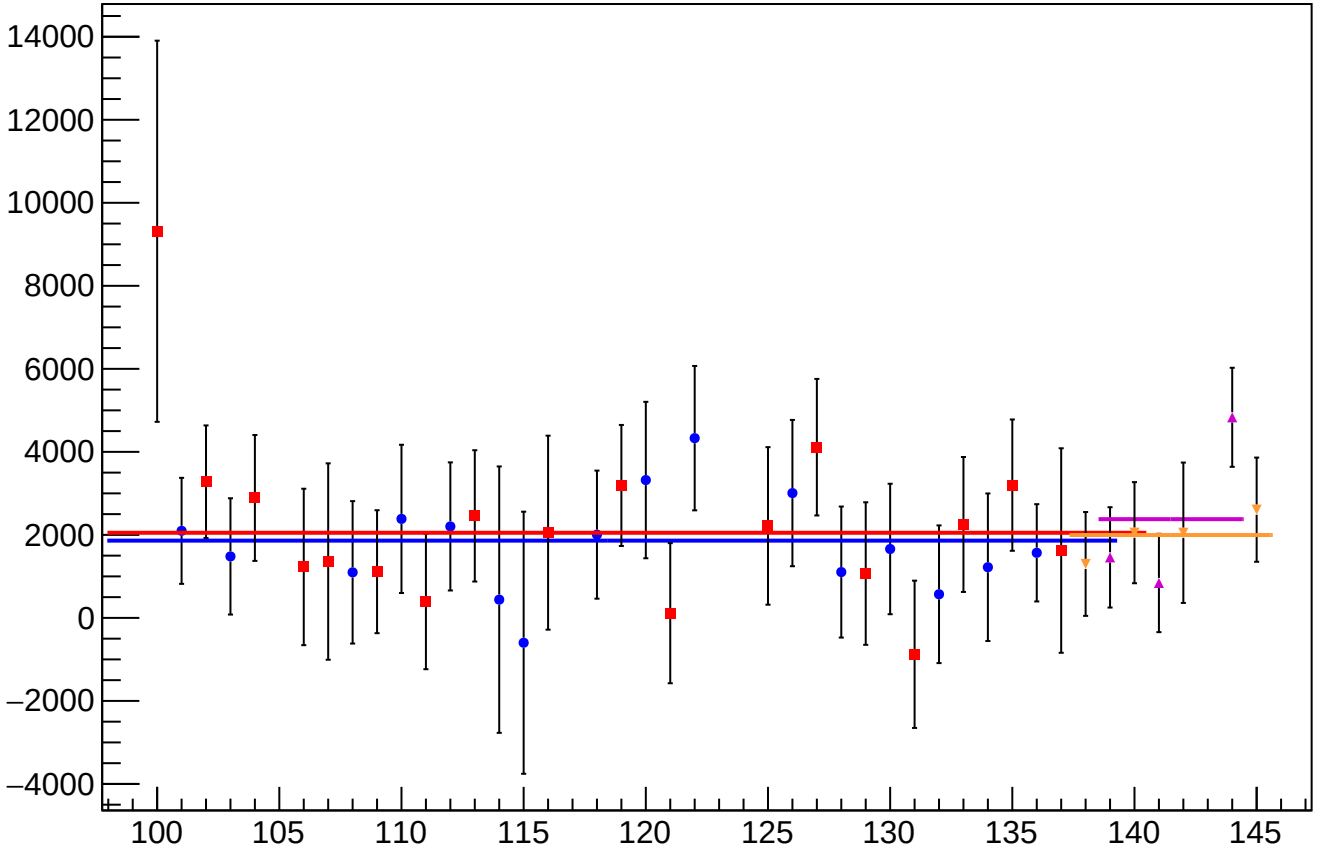
Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 965.357+/-0.231 $\chi^2$/NDF:2080118.2/18

Out: 971.109+/-0.229 $\chi^2$/NDF:2343460.6/21

All: 968.256+/-0.163 $\chi^2$/NDF: 4423891.6/40

# cor_asym_usl_mean vs Slug, Sign Corrected




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1996.320+/-659.700 $\chi^2$/NDF:0.6/3

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 2378.509+/-690.170 $\chi^2$/NDF:6.5/2

Left: 2178.792+/-476.886 $\chi^2$/NDF: 7.2/6

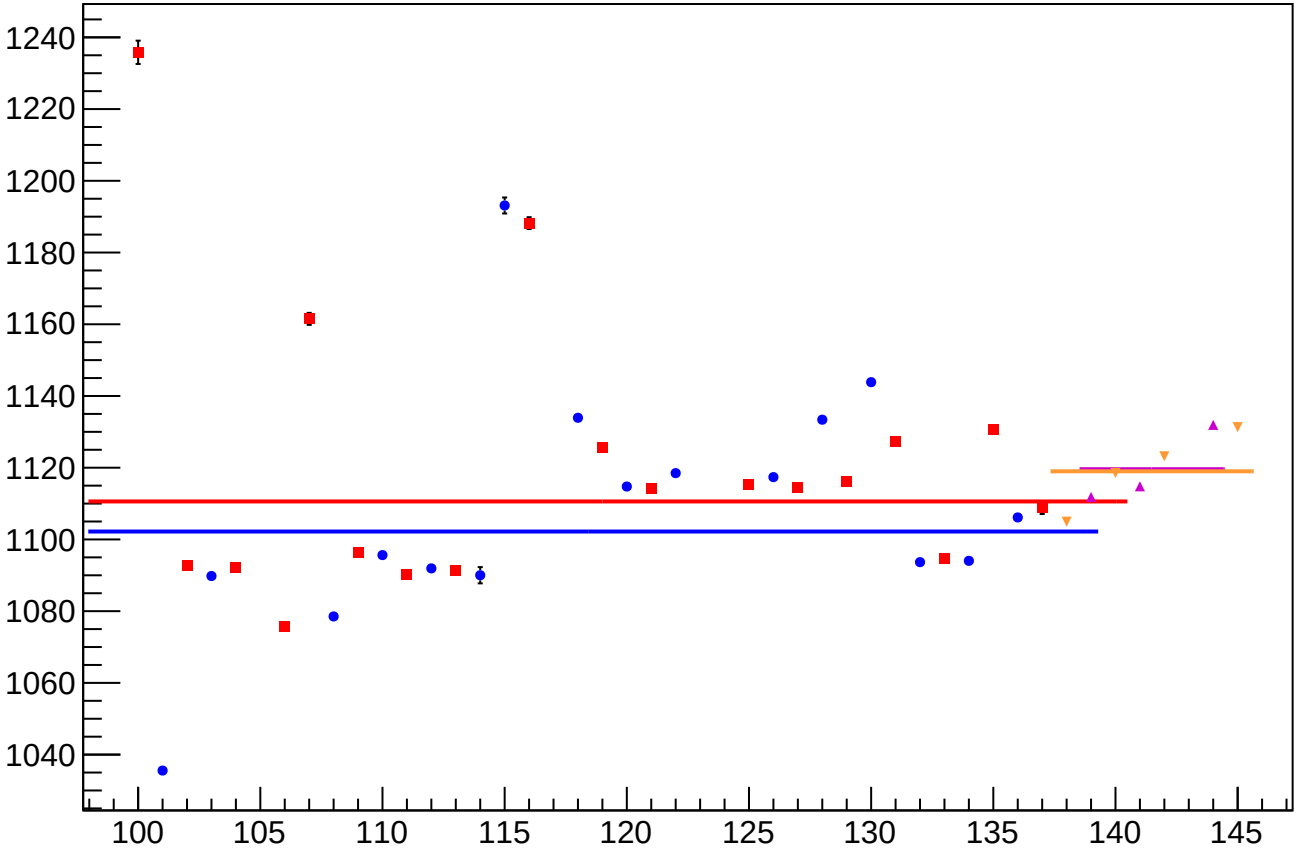
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1996.148+/-352.190 $\chi^2$/NDF:12.2/18

Out: 2035.690+/-347.766 $\chi^2$/NDF:13.1/21

All: 2016.169+/-247.457 $\chi^2$/NDF: 25.3/40

# cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1118.997+/-0.466 $\chi^2$/NDF:457.3/3

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1119.581+/-0.488 $\chi^2$/NDF:329.2/2

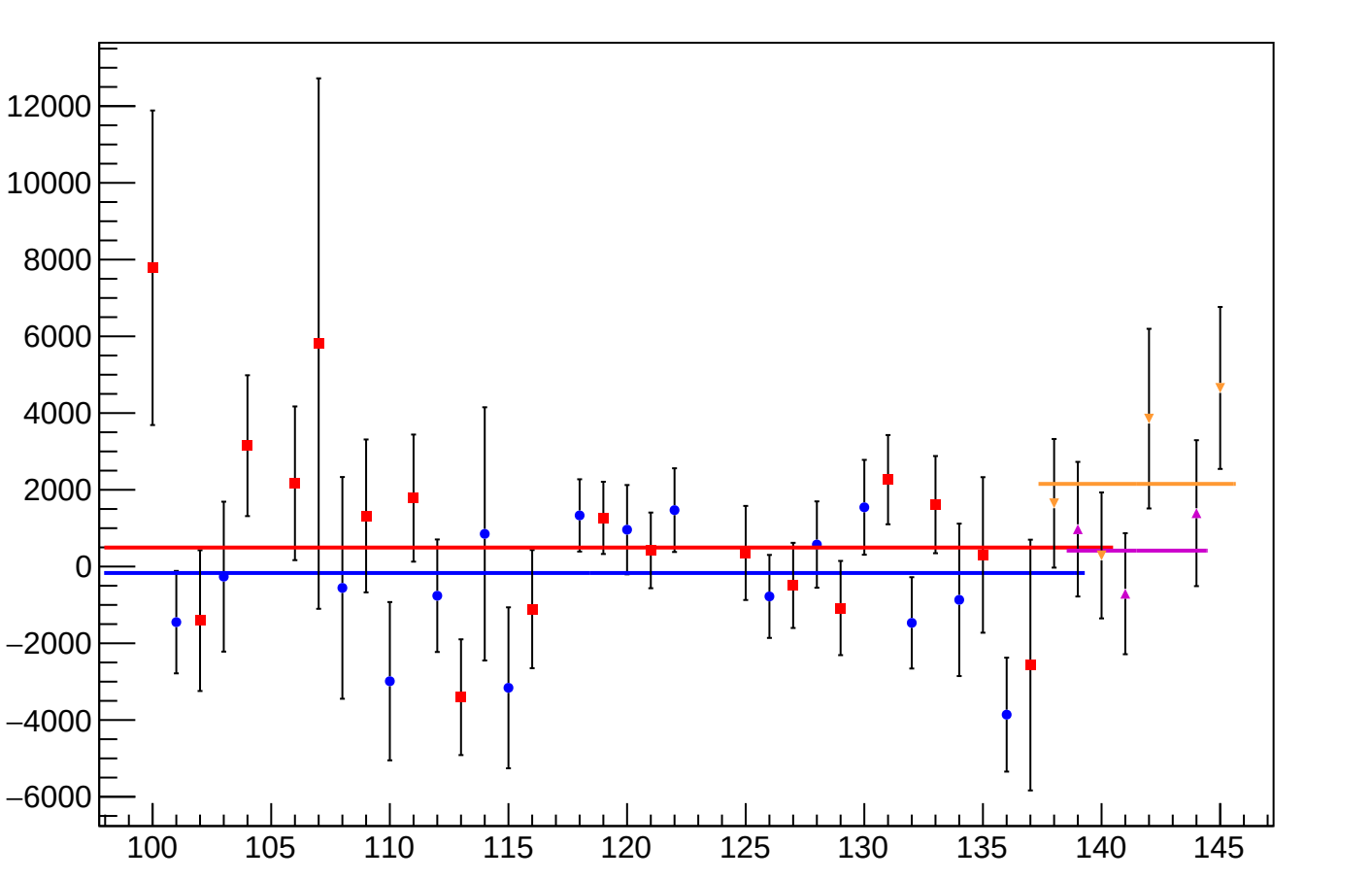
Left: 1119.276+/-0.337 $\chi^2$/NDF: 787.3/6

Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1106.730+/-0.249 $\chi^2$/NDF:12615.8/18

Out: 1112.927+/-0.246 $\chi^2$/NDF:8387.8/21

All: 1109.868+/-0.175 $\chi^2$/NDF: 21317.1/40




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: 2154.019+/-939.118 $\chi^2$/NDF:3.3/3

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 415.055+/-998.218 $\chi^2$/NDF:0.9/2

Left: 1337.535+/-683.996 $\chi^2$/NDF: 5.8/6

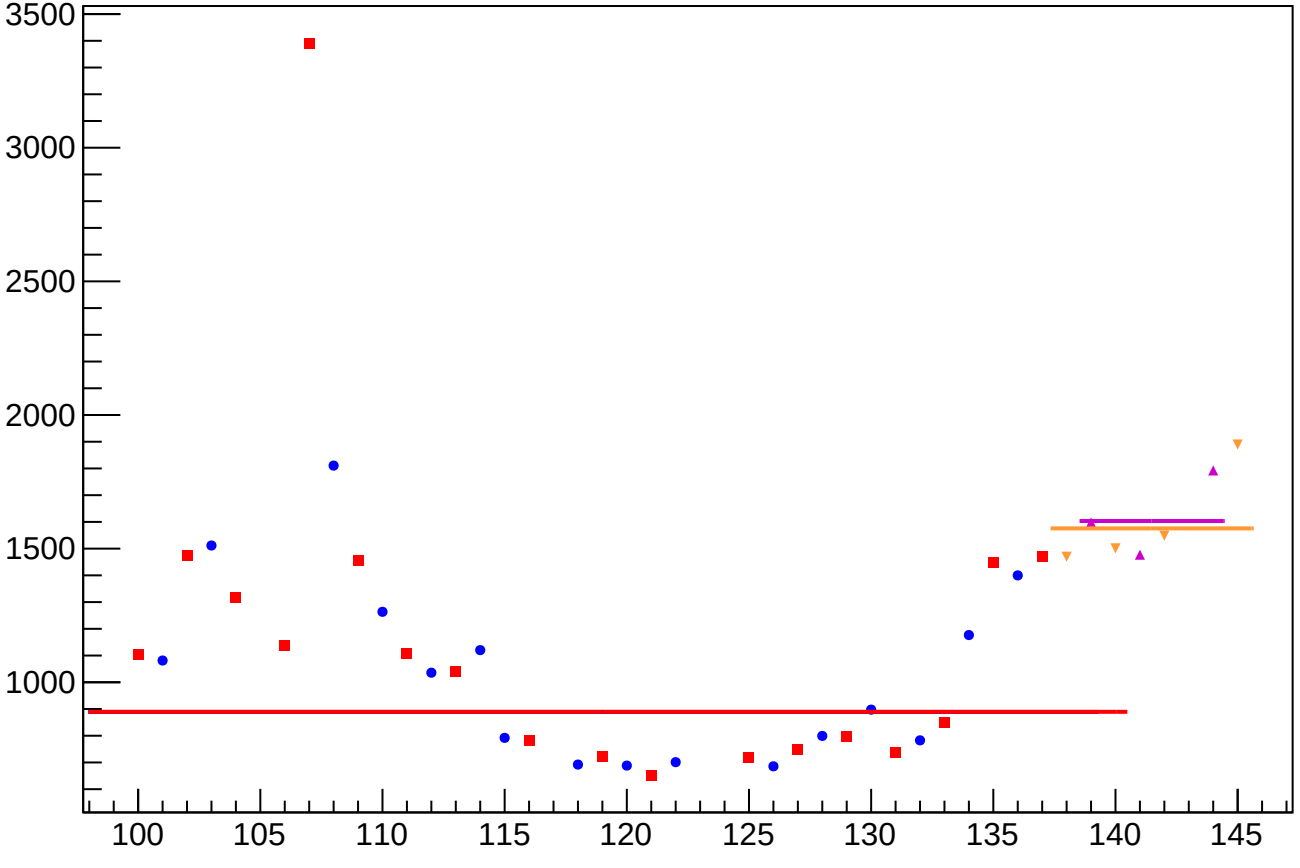
Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: -105.546+/-326.447 $\chi^2$/NDF:22.2/18

Out: 692.480+/-323.884 $\chi^2$/NDF:29.3/21

All: 296.612+/-229.921 $\chi^2$/NDF: 54.5/40

# asym_usl_cor_correction_rms vs Slug, Sign Corrected




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1575.784+/-0.664 $\chi^2$/NDF:56626.3/3

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1603.332+/-0.706 $\chi^2$/NDF:32585.6/2

Left: 1588.718+/-0.484 $\chi^2$/NDF: 90020.0/6

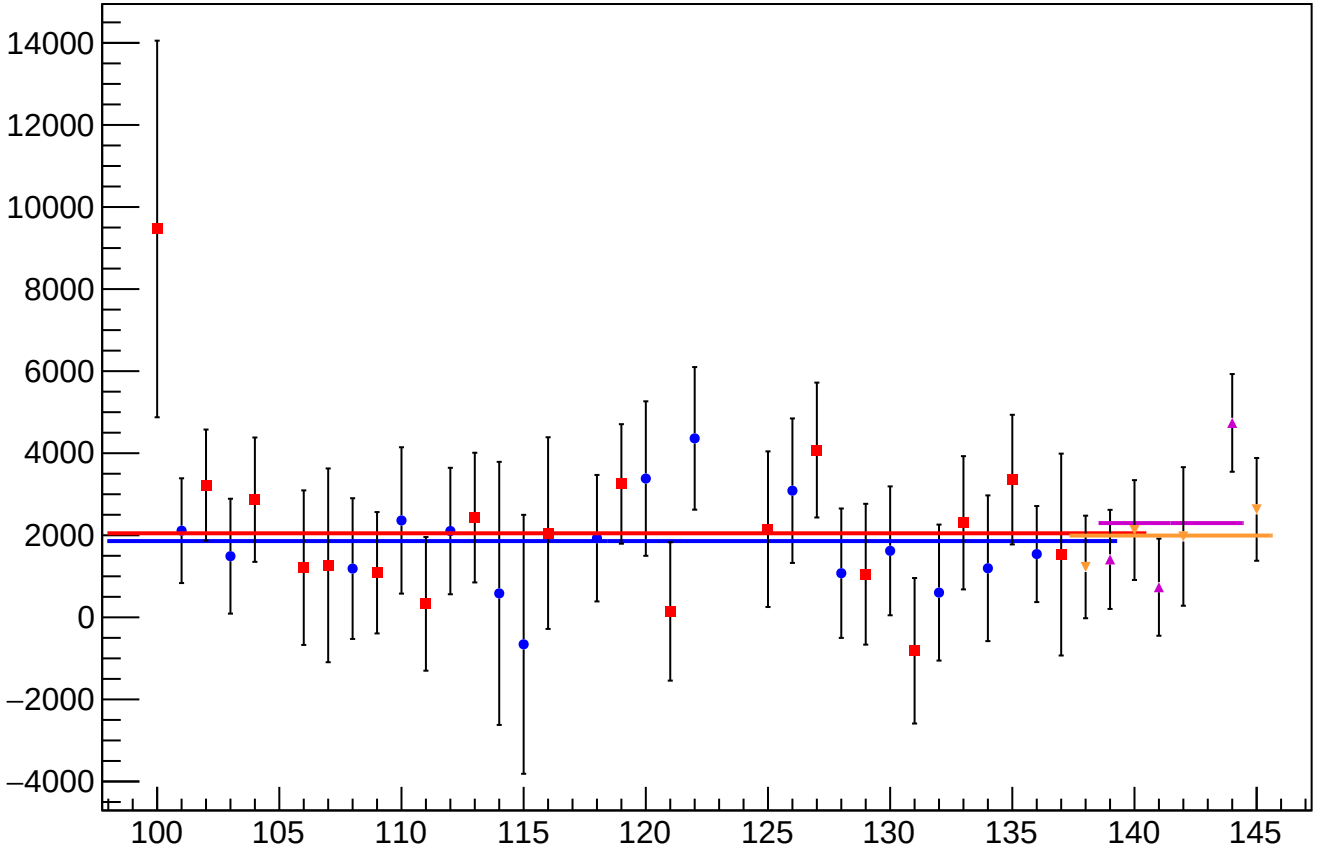
Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 965.357+/-0.231 $\chi^2$/NDF:2080118.2/18

Out: 971.109+/-0.229 $\chi^2$/NDF:2343460.6/21

All: 968.256+/-0.163 $\chi^2$/NDF: 4423891.6/40

# overload_cor_asym_usl_mean vs Slug, Sign Corrected




Right In: 1858.683+/-409.170 $\chi^2$/NDF: 5.4/15

Left Out: 1993.363+/-658.753 $\chi^2$/NDF:0.6/3

Right Out: 2048.674+/-408.894 $\chi^2$/NDF: 12.7/17

Left In: 2297.359+/-689.216 $\chi^2$/NDF:6.5/2

Left: 2138.495+/-476.214 $\chi^2$/NDF: 7.2/6

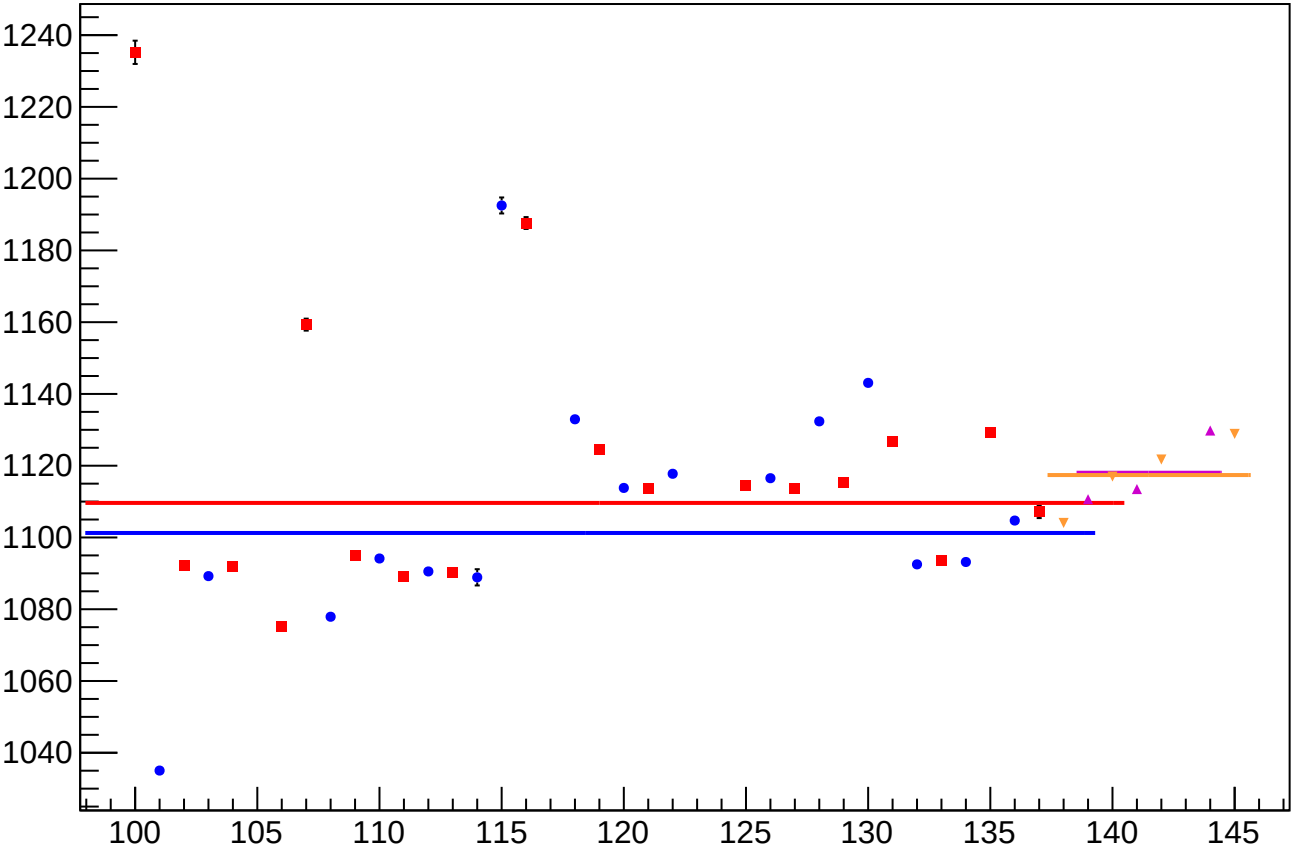
Right: 1953.743+/-289.229 $\chi^2$/NDF: 18.3/33

In: 1973.002+/-351.838 $\chi^2$/NDF:12.2/18

Out: 2033.291+/-347.409 $\chi^2$/NDF:13.4/21

All: 2003.528+/-247.207 $\chi^2$/NDF: 25.6/40

# overload_cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1101.254+/-0.289 $\chi^2$/NDF: 11308.3/15

Left Out: 1117.397+/-0.466 $\chi^2$/NDF:409.2/3

Right Out: 1109.629+/-0.289 $\chi^2$/NDF: 7673.1/17

Left In: 1118.039+/-0.487 $\chi^2$/NDF:299.4/2

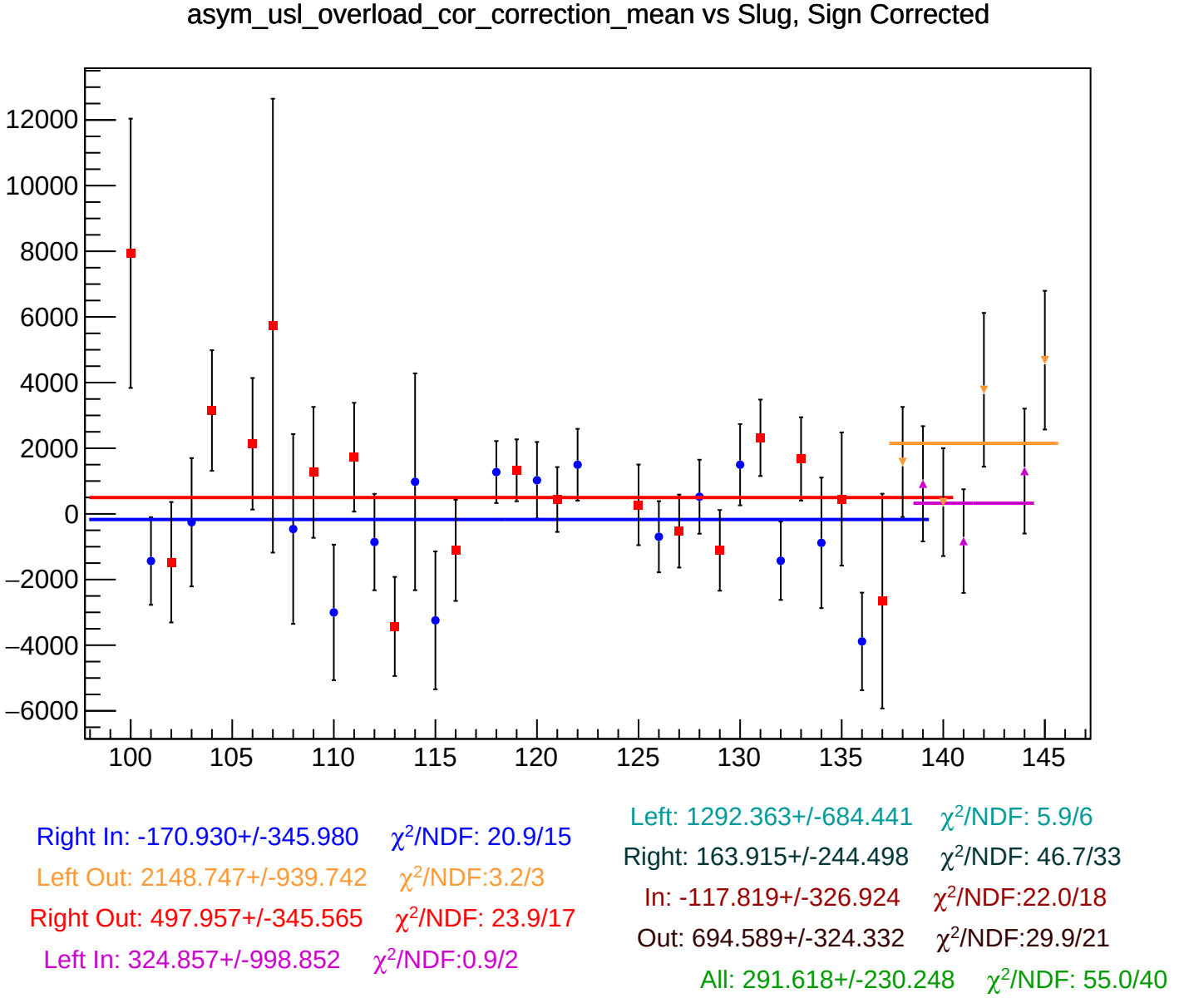
Left: 1117.703+/-0.337 $\chi^2$/NDF: 709.5/6

Right: 1105.444+/-0.205 $\chi^2$/NDF: 19400.5/33

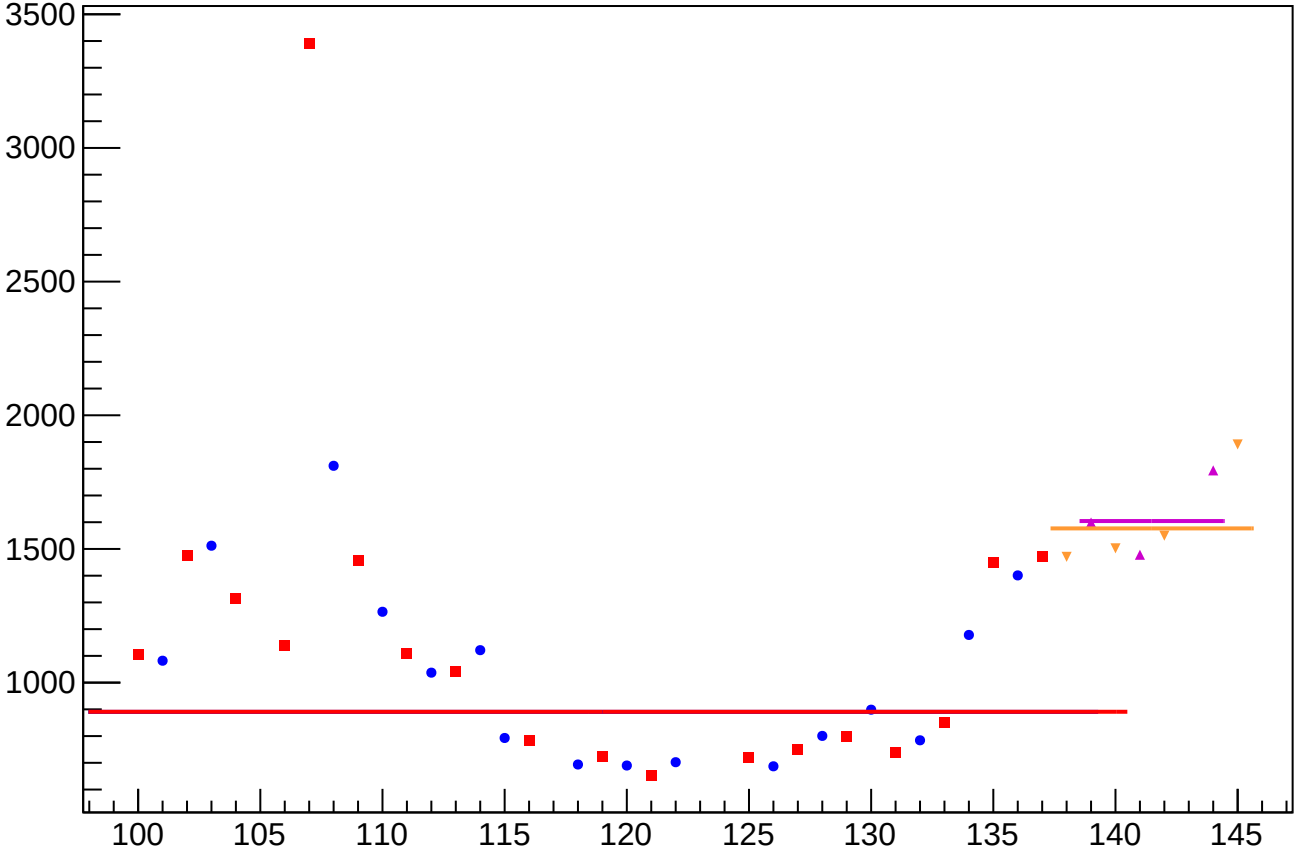
In: 1105.629+/-0.249 $\chi^2$/NDF:12484.8/18

Out: 1111.789+/-0.246 $\chi^2$/NDF:8283.0/21

All: 1108.748+/-0.175 $\chi^2$/NDF: 21078.2/40


asym_usl_overload_cor_correction_mean vs Slug, Sign Corrected
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
100
105
110
115
120
125
130
135
140
145
Right In: -170.930+/-345.980 χ²/NDF: 20.9/15
Left Out: 2148.747+/-939.742 χ²/NDF:3.2/3
Right Out: 497.957+/-345.565 χ²/NDF: 23.9/17
Left In: 324.857+/-998.852 χ²/NDF:0.9/2
Left: 1292.363+/-684.441 χ²/NDF: 5.9/6
Right: 163.915+/-244.498 χ²/NDF: 46.7/33
In: -117.819+/-326.924 χ²/NDF:22.0/18
Out: 694.589+/-324.332 χ²/NDF:29.9/21
All: 291.618+/-230.248 χ²/NDF: 55.0/40

asym_usl_overload_cor_correction_rms vs Slug, Sign Corrected




Right In: 890.495+/-0.245 $\chi^2$/NDF: 1128739.3/15

Left Out: 1576.838+/-0.664 $\chi^2$/NDF:56663.0/3

Right Out: 890.938+/-0.244 $\chi^2$/NDF: 1341804.2/17

Left In: 1604.361+/-0.706 $\chi^2$/NDF:32605.3/2

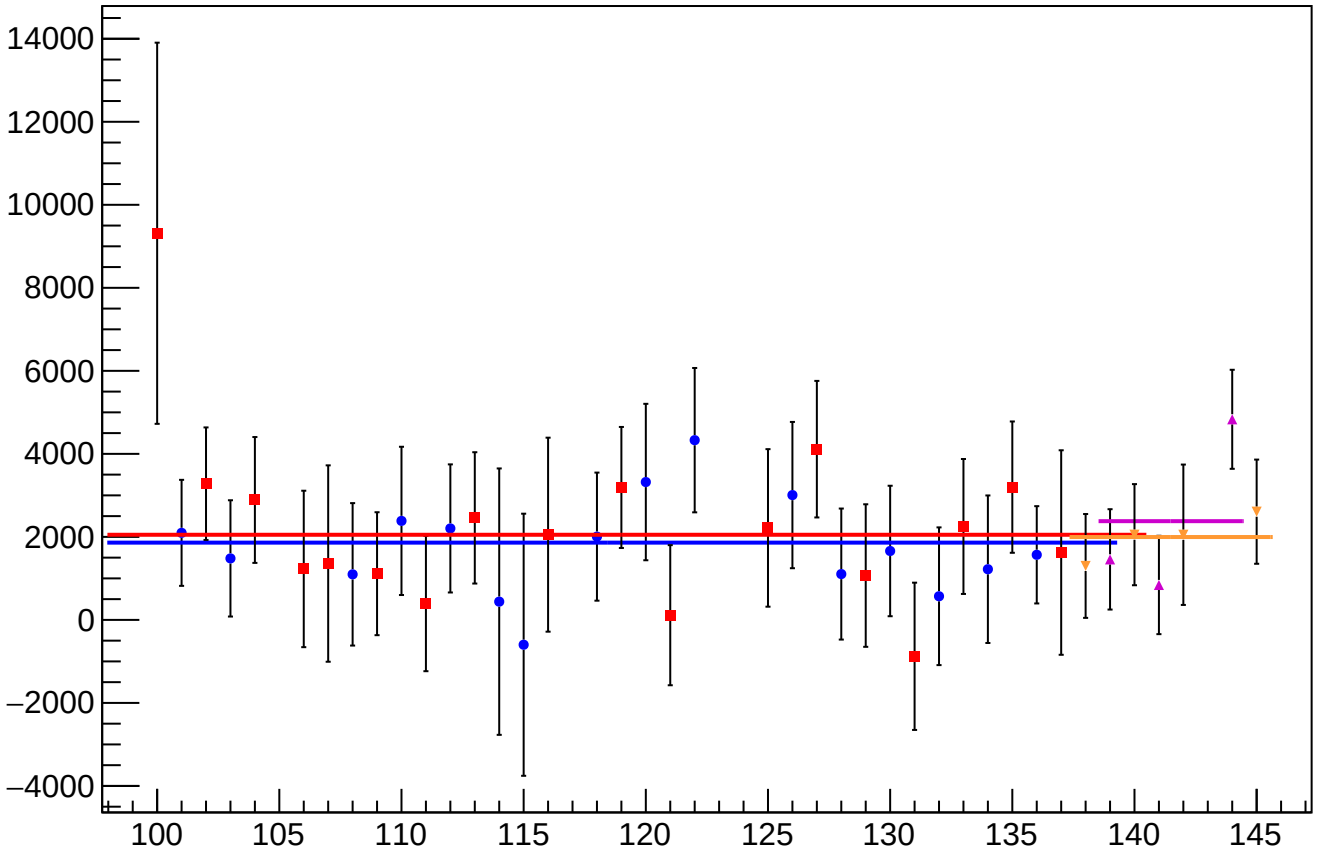
Left: 1589.762+/-0.484 $\chi^2$/NDF: 90073.9/6

Right: 890.717+/-0.173 $\chi^2$/NDF: 2470545.1/33

In: 966.968+/-0.231 $\chi^2$/NDF:2073466.2/18

Out: 972.639+/-0.229 $\chi^2$/NDF:2337009.4/21

All: 969.826+/-0.163 $\chi^2$/NDF: 4410778.9/40




Right In: 1861.525+/-409.524 $\chi^2$/NDF: 5.3/15

Left Out: 1996.320+/-659.700 $\chi^2$/NDF:0.6/3

Right Out: 2050.842+/-409.249 $\chi^2$/NDF: 12.5/17

Left In: 2378.509+/-690.170 $\chi^2$/NDF:6.5/2

Left: 2178.792+/-476.886 $\chi^2$/NDF: 7.2/6

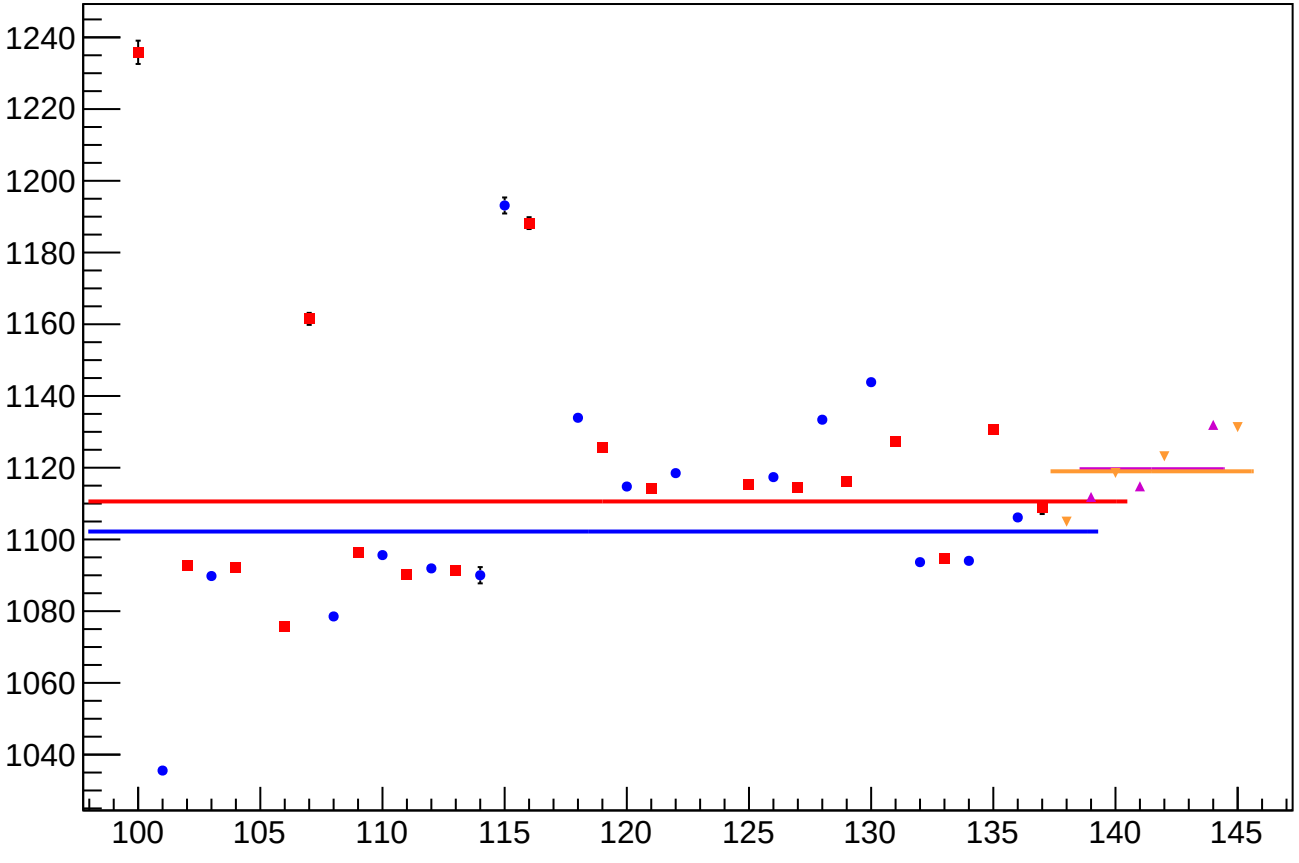
Right: 1956.247+/-289.480 $\chi^2$/NDF: 18.0/33

In: 1996.148+/-352.190 $\chi^2$/NDF:12.2/18

Out: 2035.690+/-347.766 $\chi^2$/NDF:13.1/21

All: 2016.169+/-247.457 $\chi^2$/NDF: 25.3/40

# eigen_cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1102.205+/-0.290 $\chi^2$/NDF: 11348.9/15

Left Out: 1118.997+/-0.466 $\chi^2$/NDF:457.3/3

Right Out: 1110.592+/-0.289 $\chi^2$/NDF: 7696.0/17

Left In: 1119.581+/-0.488 $\chi^2$/NDF:329.2/2

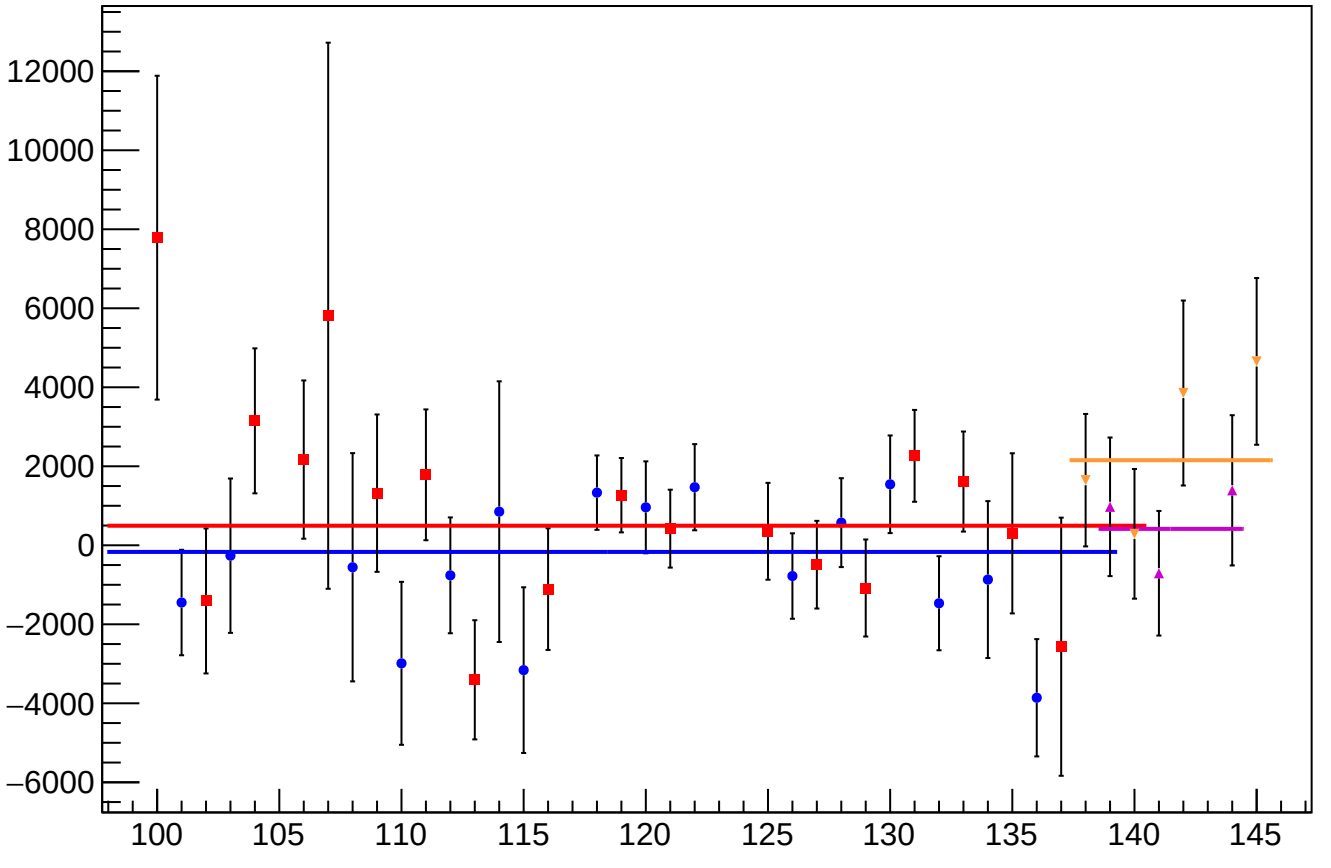
Left: 1119.276+/-0.337 $\chi^2$/NDF: 787.3/6

Right: 1106.401+/-0.205 $\chi^2$/NDF: 19464.6/33

In: 1106.730+/-0.249 $\chi^2$/NDF:12615.8/18

Out: 1112.927+/-0.246 $\chi^2$/NDF:8387.8/21

All: 1109.868+/-0.175 $\chi^2$/NDF: 21317.1/40




Right In: -167.891+/-345.441 $\chi^2$/NDF: 21.0/15

Left Out: 2154.019+/-939.118 $\chi^2$/NDF:3.3/3

Right Out: 495.172+/-345.054 $\chi^2$/NDF: 23.3/17

Left In: 415.055+/-998.218 $\chi^2$/NDF:0.9/2

Left: 1337.535+/-683.996 $\chi^2$/NDF: 5.8/6

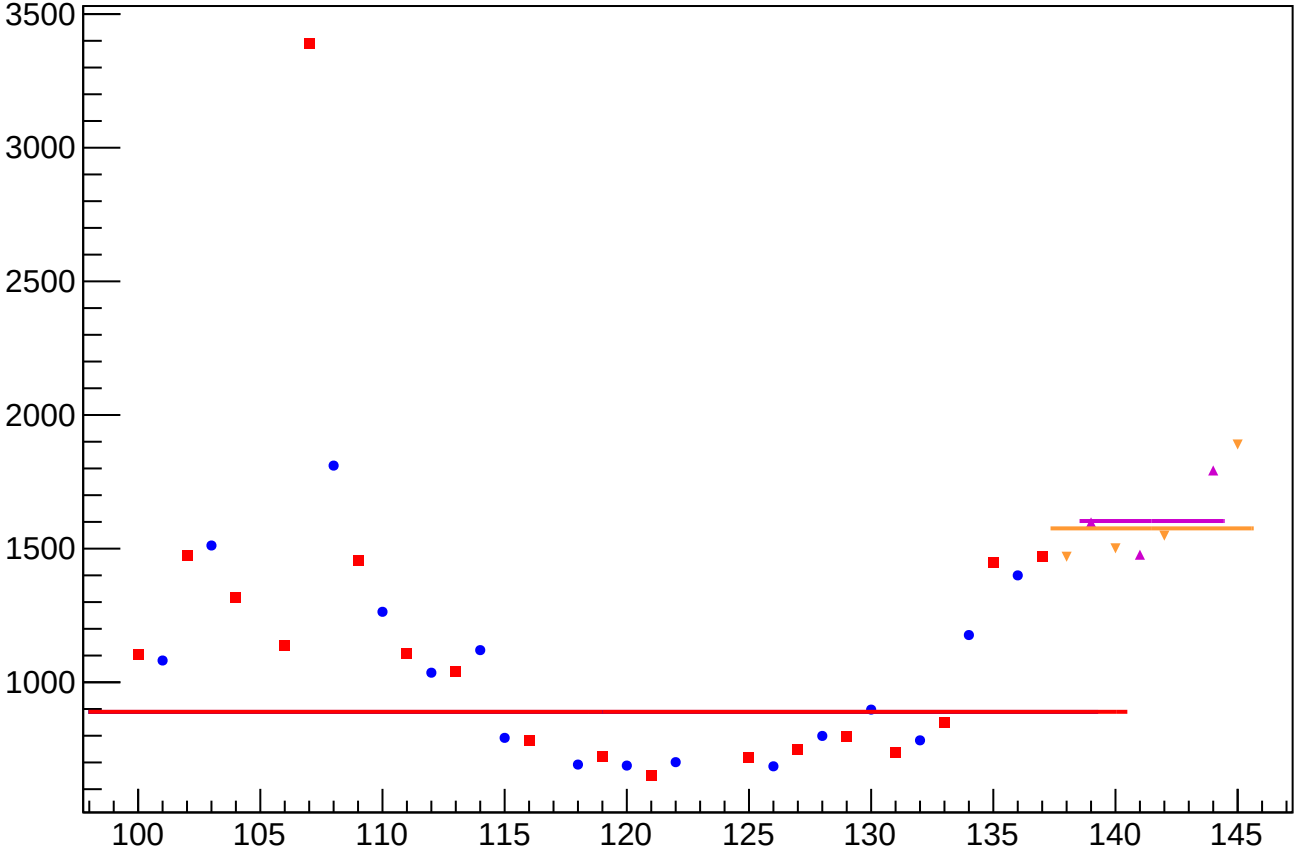
Right: 164.012+/-244.127 $\chi^2$/NDF: 46.1/33

In: -105.546+/-326.447 $\chi^2$/NDF:22.2/18

Out: 692.480+/-323.884 $\chi^2$/NDF:29.3/21

All: 296.612+/-229.921 $\chi^2$/NDF: 54.5/40

# asym_usl_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 888.956+/-0.244 $\chi^2$/NDF: 1132766.3/15

Left Out: 1575.784+/-0.664 $\chi^2$/NDF:56626.3/3

Right Out: 889.478+/-0.244 $\chi^2$/NDF: 1345750.2/17

Left In: 1603.332+/-0.706 $\chi^2$/NDF:32585.6/2

Left: 1588.718+/-0.484 $\chi^2$/NDF: 90020.0/6

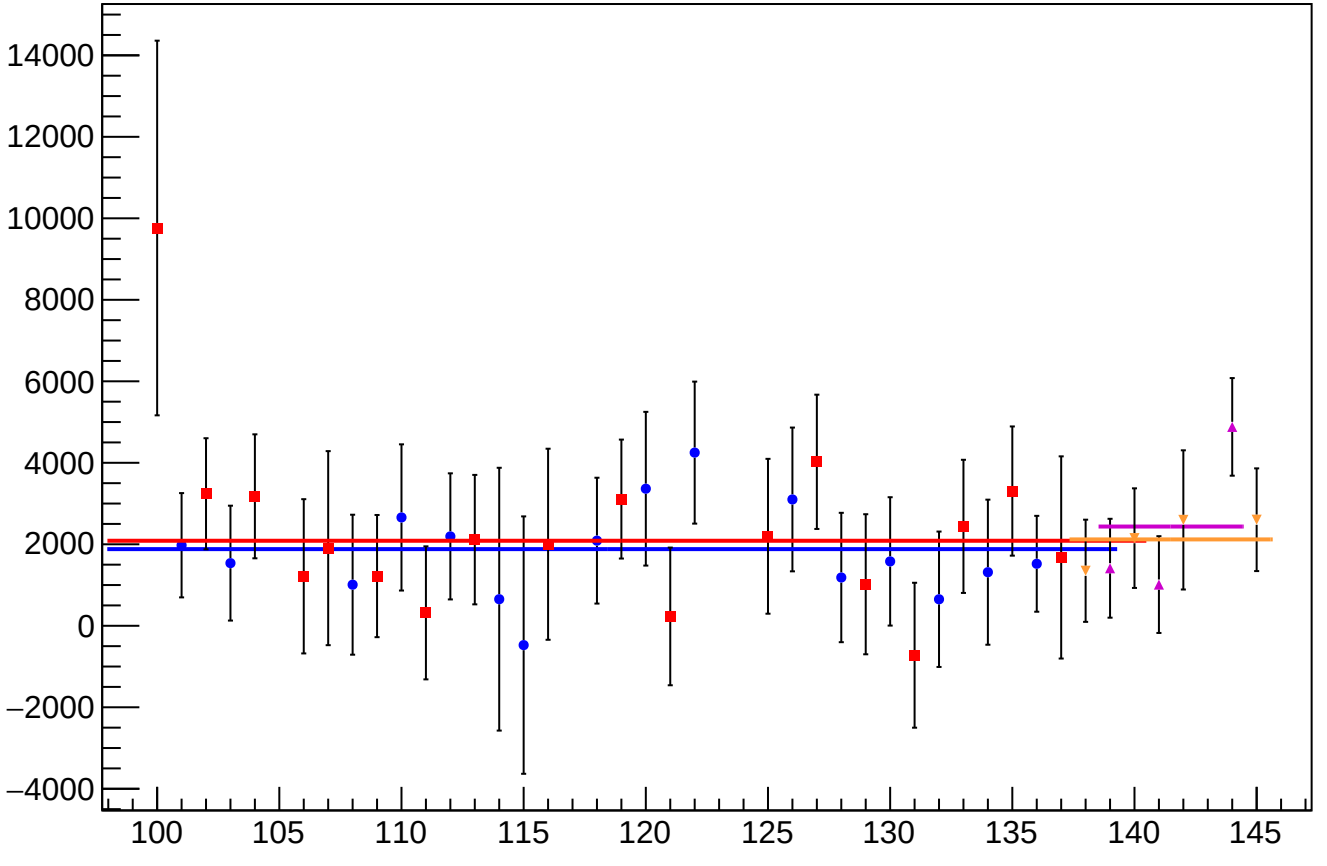
Right: 889.217+/-0.173 $\chi^2$/NDF: 2478518.8/33

In: 965.357+/-0.231 $\chi^2$/NDF:2080118.2/18

Out: 971.109+/-0.229 $\chi^2$/NDF:2343460.6/21

All: 968.256+/-0.163 $\chi^2$/NDF: 4423891.6/40

# dit_asym_usl_mean vs Slug, Sign Corrected




Right In: 1881.524+/-410.700 $\chi^2$/NDF: 5.2/15

Left Out: 2119.724+/-662.564 $\chi^2$/NDF:0.6/3

Right Out: 2086.886+/-410.785 $\chi^2$/NDF: 12.4/17

Left In: 2435.604+/-692.514 $\chi^2$/NDF:6.3/2

Left: 2270.686+/-478.742 $\chi^2$/NDF: 7.0/6

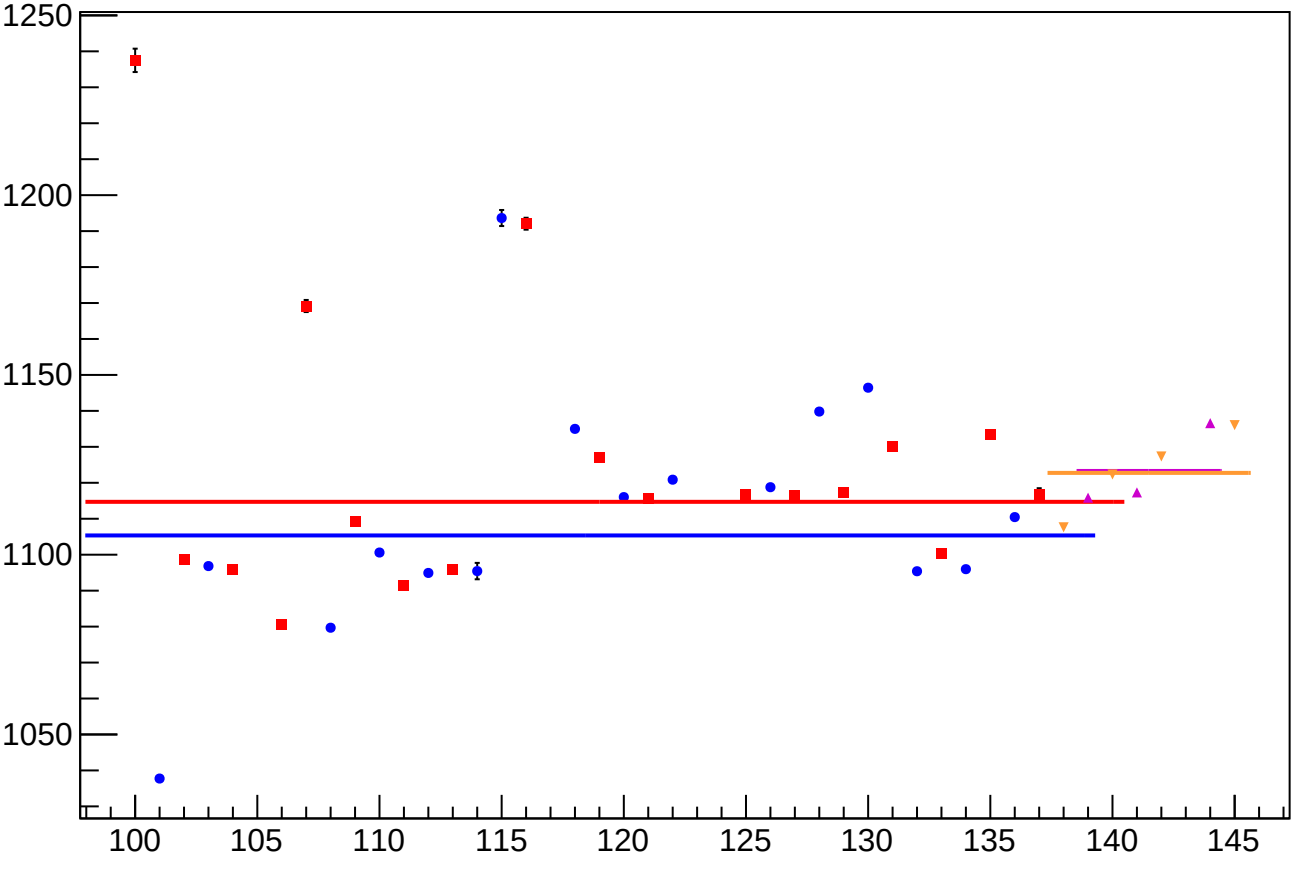
Right: 1984.184+/-290.439 $\chi^2$/NDF: 17.7/33

In: 2025.695+/-353.250 $\chi^2$/NDF:12.0/18

Out: 2096.004+/-349.128 $\chi^2$/NDF:13.0/21

All: 2061.262+/-248.316 $\chi^2$/NDF: 25.0/40

# dit_asym_usl_rms vs Slug, Sign Corrected




Right In: 1105.355+/-0.290 $\chi^2$/NDF: 11330.9/15

Left Out: 1122.755+/-0.469 $\chi^2$/NDF:528.1/3

Right Out: 1114.705+/-0.290 $\chi^2$/NDF: 7330.3/17

Left In: 1123.289+/-0.490 $\chi^2$/NDF:371.9/2

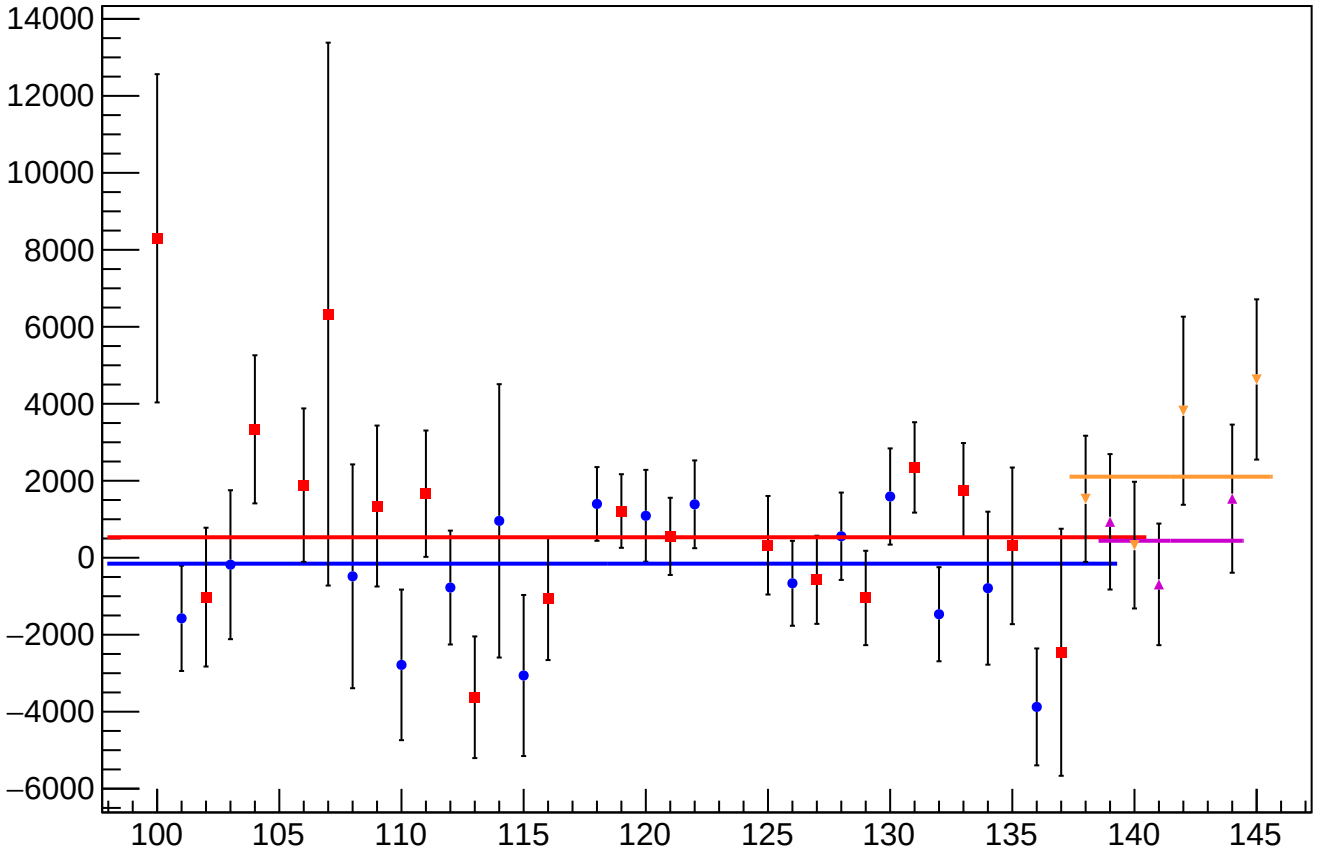
Left: 1123.010+/-0.339 $\chi^2$/NDF: 900.7/6

Right: 1110.029+/-0.205 $\chi^2$/NDF: 19179.4/33

In: 1110.022+/-0.250 $\chi^2$/NDF:12695.2/18

Out: 1116.940+/-0.247 $\chi^2$/NDF:8071.7/21

All: 1113.522+/-0.176 $\chi^2$/NDF: 21154.9/40




Right In: -153.999+/-351.318 $\chi^2$/NDF: 20.5/15

Left Out: 2105.375+/-936.719 $\chi^2$/NDF:3.3/3

Right Out: 532.155+/-350.407 $\chi^2$/NDF: 23.2/17

Left In: 441.307+/-1003.022 $\chi^2$/NDF:0.9/2

Left: 1330.155+/-684.601 $\chi^2$/NDF: 5.6/6

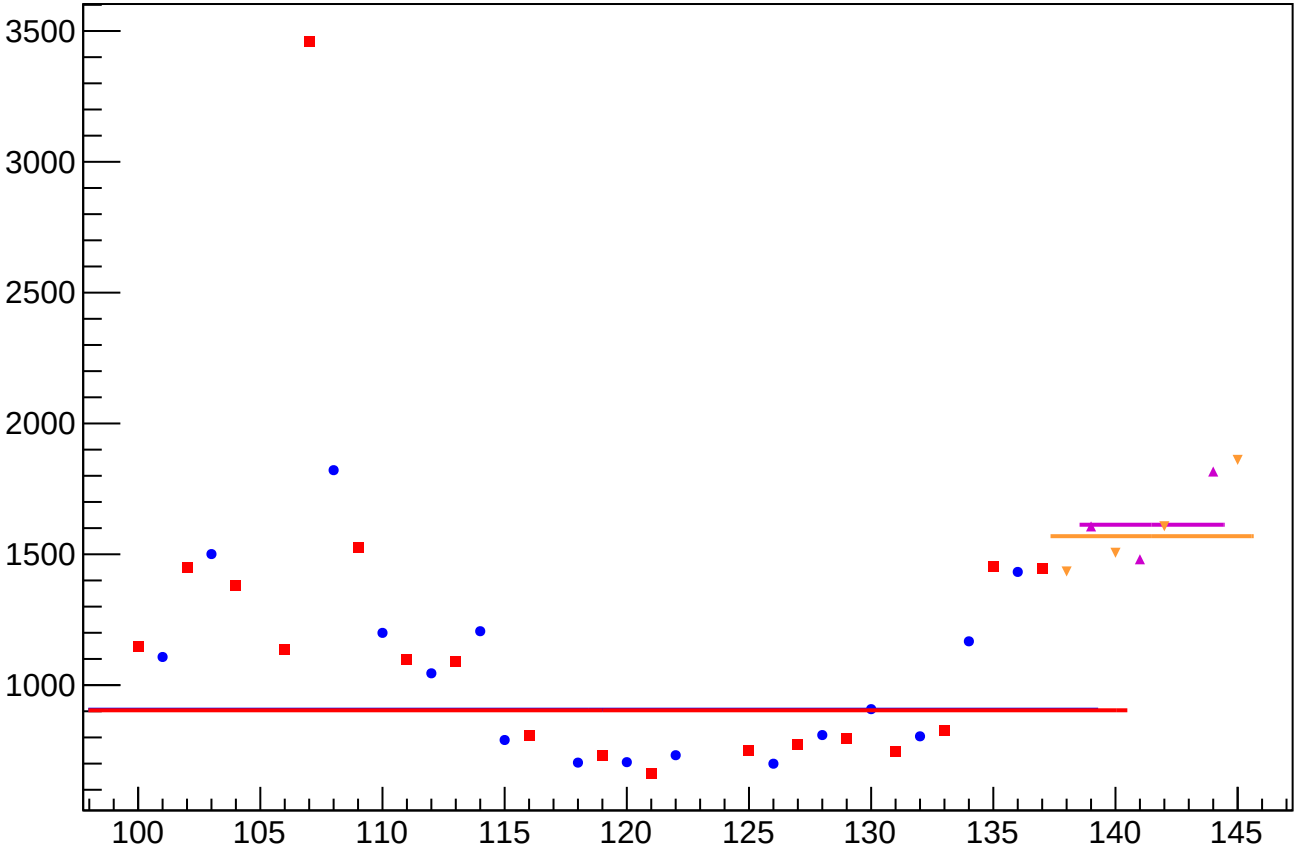
Right: 189.968+/-248.097 $\chi^2$/NDF: 45.6/33

In: -88.947+/-331.567 $\chi^2$/NDF:21.7/18

Out: 725.279+/-328.196 $\chi^2$/NDF:29.0/21

All: 322.327+/-233.252 $\chi^2$/NDF: 53.7/40

# asym_usl_dit_correction_rms vs Slug, Sign Corrected




Right In: 906.036+/-0.248 $\chi^2$/NDF: 1079435.1/15

Left Out: 1569.193+/-0.662 $\chi^2$/NDF:56223.7/3

Right Out: 903.753+/-0.248 $\chi^2$/NDF: 1339982.2/17

Left In: 1612.947+/-0.709 $\chi^2$/NDF:36321.5/2

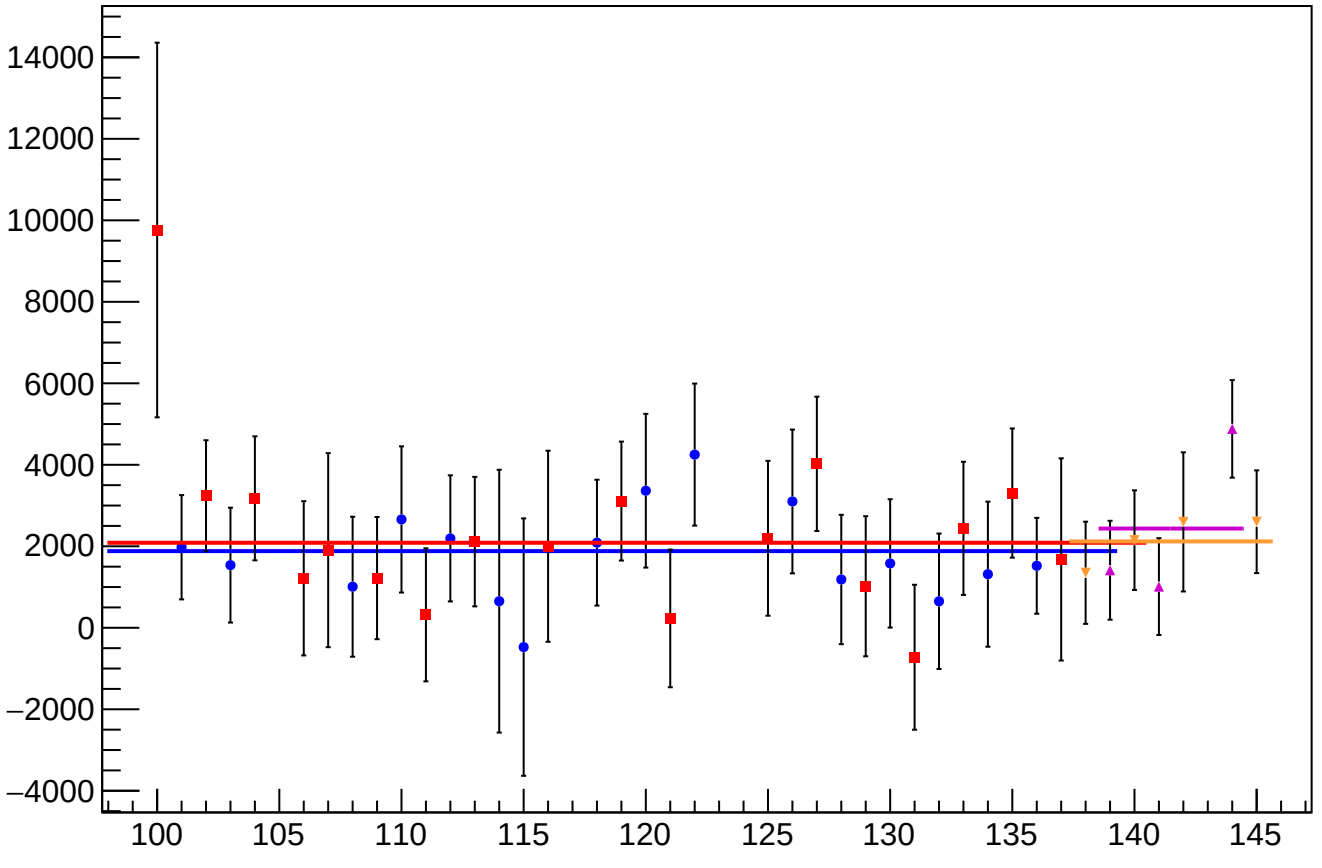
Left: 1589.576+/-0.484 $\chi^2$/NDF: 94578.1/6

Right: 904.892+/-0.175 $\chi^2$/NDF: 2419459.6/33

In: 983.284+/-0.234 $\chi^2$/NDF:2000632.9/18

Out: 985.441+/-0.232 $\chi^2$/NDF:2281624.7/21

All: 984.373+/-0.165 $\chi^2$/NDF: 4282300.3/40




Right In: 1881.523+/-410.700 $\chi^2$/NDF: 5.2/15

Left Out: 2119.728+/-662.564 $\chi^2$/NDF:0.6/3

Right Out: 2086.884+/-410.785 $\chi^2$/NDF: 12.4/17

Left In: 2435.605+/-692.514 $\chi^2$/NDF:6.3/2

Left: 2270.689+/-478.742 $\chi^2$/NDF: 7.0/6

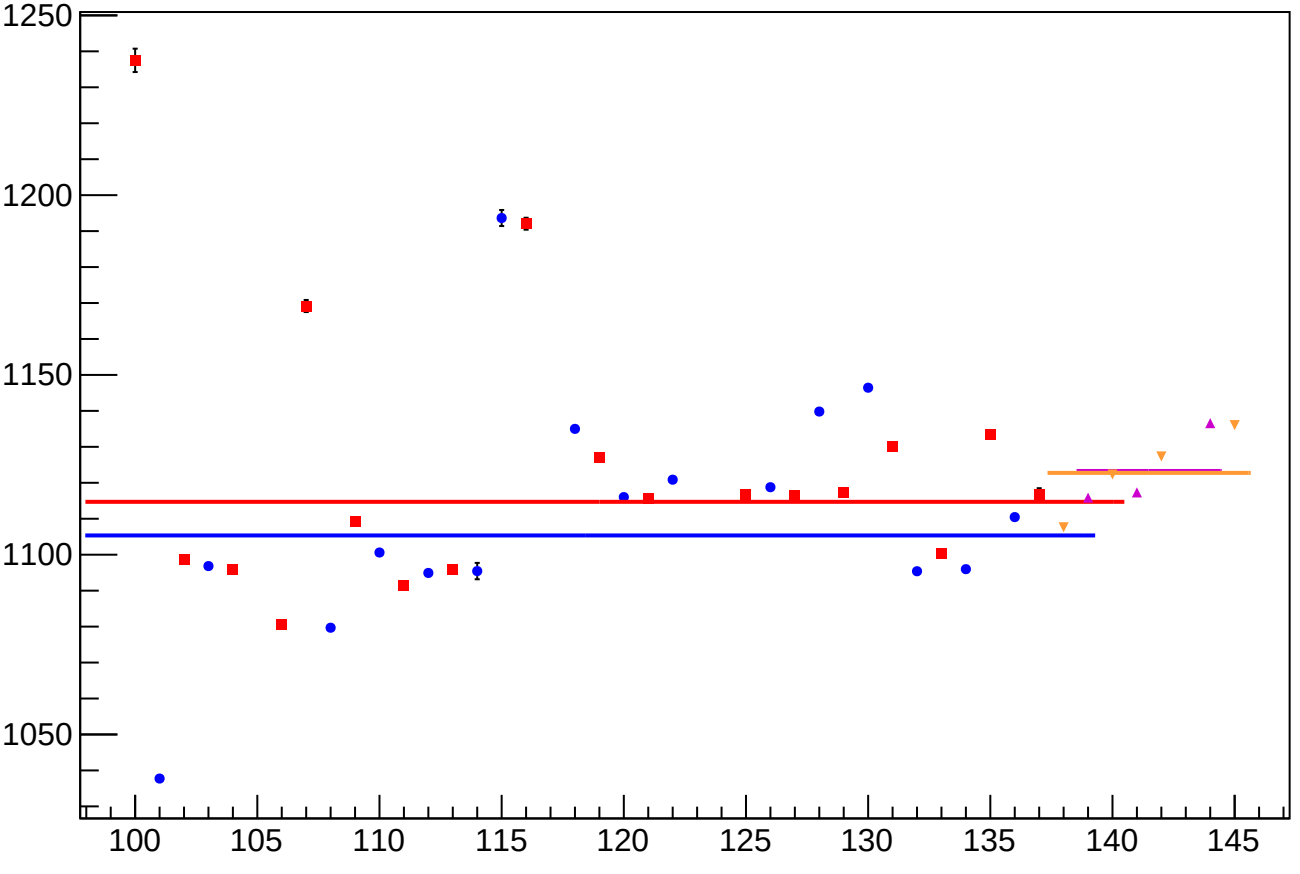
Right: 1984.182+/-290.439 $\chi^2$/NDF: 17.7/33

In: 2025.695+/-353.250 $\chi^2$/NDF:12.0/18

Out: 2096.003+/-349.128 $\chi^2$/NDF:13.0/21

All: 2061.262+/-248.316 $\chi^2$/NDF: 25.0/40

# eigen_dit_asym_usl_rms vs Slug, Sign Corrected




Right In: 1105.355+/-0.290 $\chi^2$/NDF: 11330.9/15

Left Out: 1122.755+/-0.469 $\chi^2$/NDF:528.1/3

Right Out: 1114.705+/-0.290 $\chi^2$/NDF: 7330.2/17

Left In: 1123.289+/-0.490 $\chi^2$/NDF:371.9/2

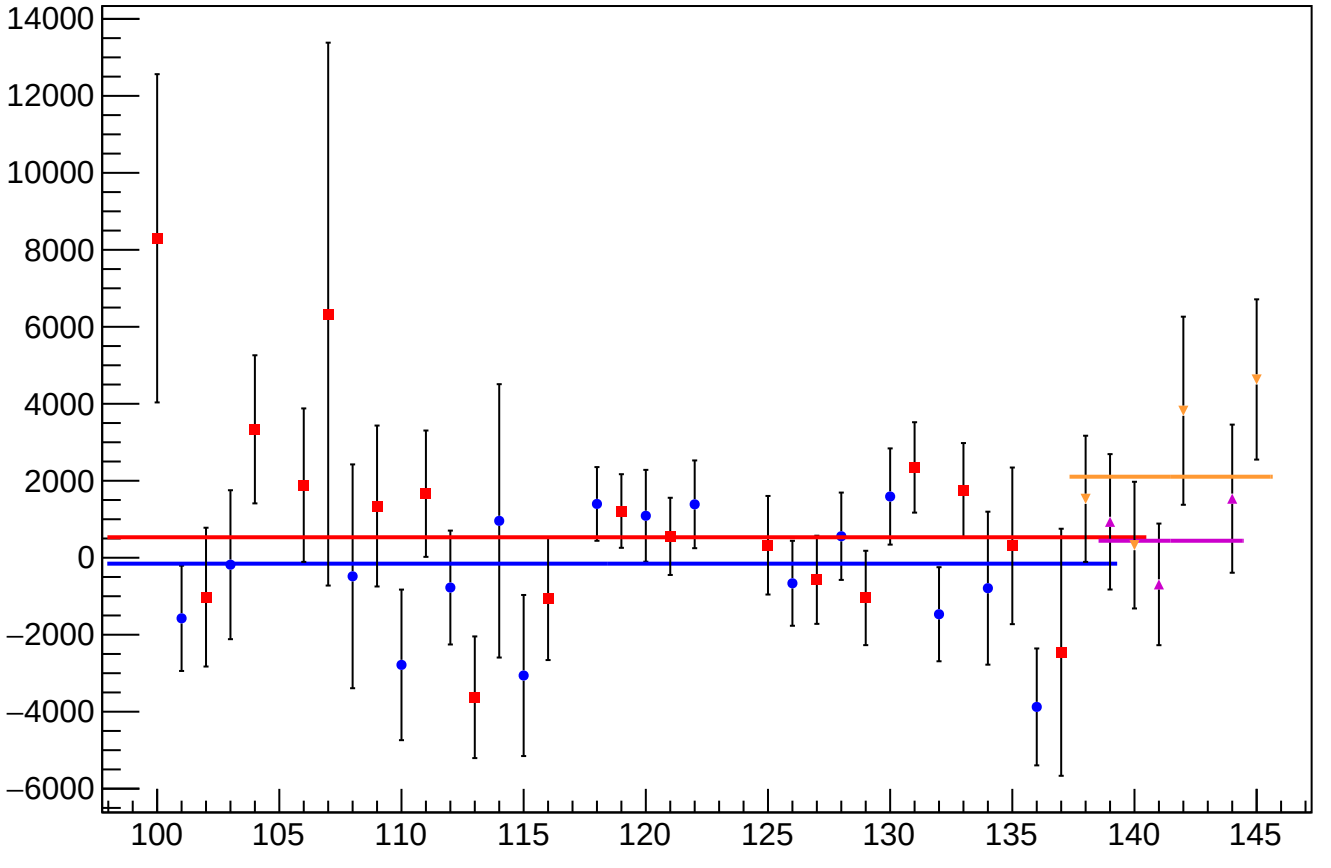
Left: 1123.010+/-0.339 $\chi^2$/NDF: 900.7/6

Right: 1110.029+/-0.205 $\chi^2$/NDF: 19179.3/33

In: 1110.022+/-0.250 $\chi^2$/NDF:12695.2/18

Out: 1116.940+/-0.247 $\chi^2$/NDF:8071.6/21

All: 1113.521+/-0.176 $\chi^2$/NDF: 21154.9/40




Right In: -153.998+/-351.317 $\chi^2$/NDF: 20.5/15

Left Out: 2105.379+/-936.721 $\chi^2$/NDF:3.3/3

Right Out: 532.154+/-350.406 $\chi^2$/NDF: 23.2/17

Left In: 441.308+/-1003.023 $\chi^2$/NDF:0.9/2

Left: 1330.157+/-684.602 $\chi^2$/NDF: 5.6/6

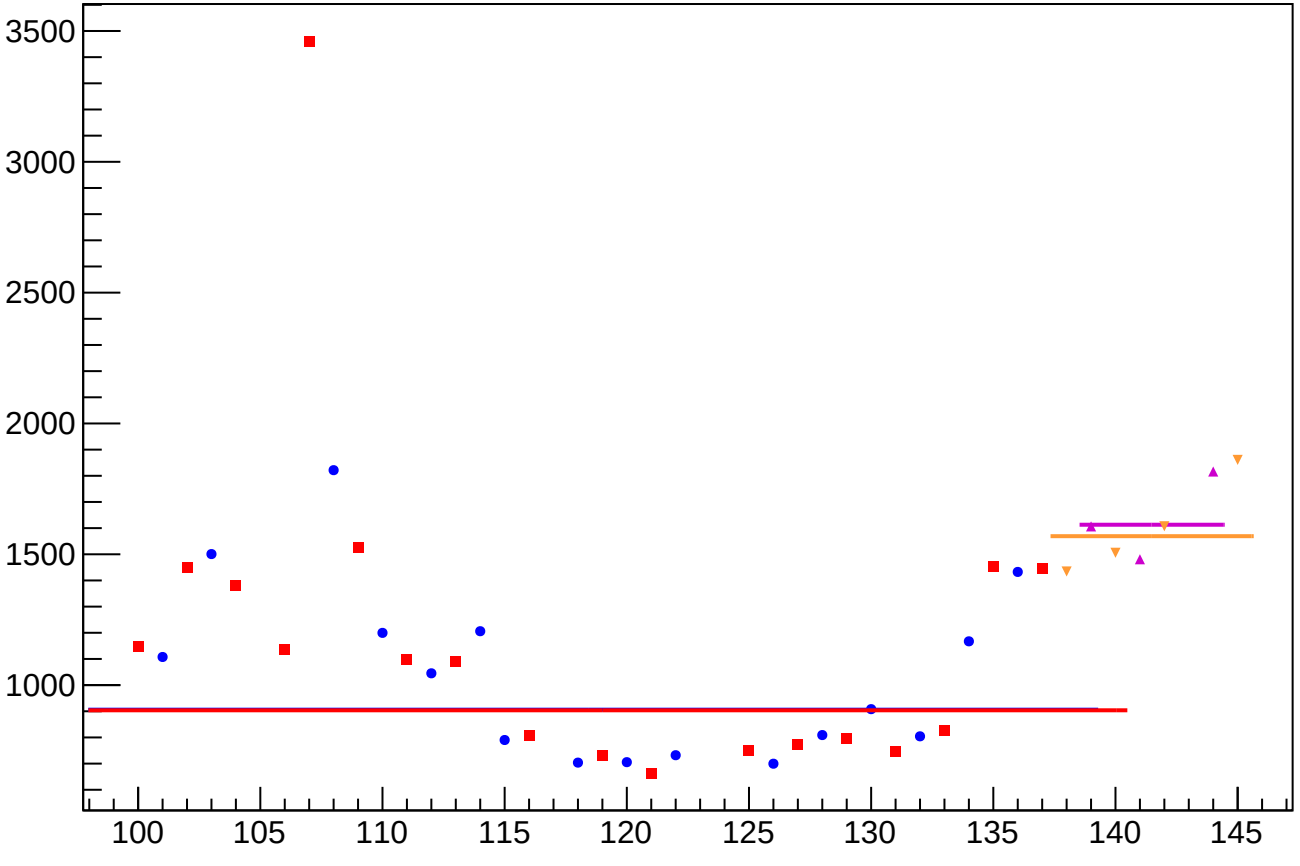
Right: 189.969+/-248.096 $\chi^2$/NDF: 45.6/33

In: -88.946+/-331.567 $\chi^2$/NDF:21.7/18

Out: 725.278+/-328.195 $\chi^2$/NDF:29.0/21

All: 322.327+/-233.252 $\chi^2$/NDF: 53.7/40

# asym_usl_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 906.034+/-0.248 $\chi^2$/NDF: 1079440.1/15

Left Out: 1569.195+/-0.662 $\chi^2$/NDF:56223.6/3

Right Out: 903.751+/-0.248 $\chi^2$/NDF: 1339985.4/17

Left In: 1612.949+/-0.709 $\chi^2$/NDF:36321.6/2

Left: 1589.578+/-0.484 $\chi^2$/NDF: 94578.0/6

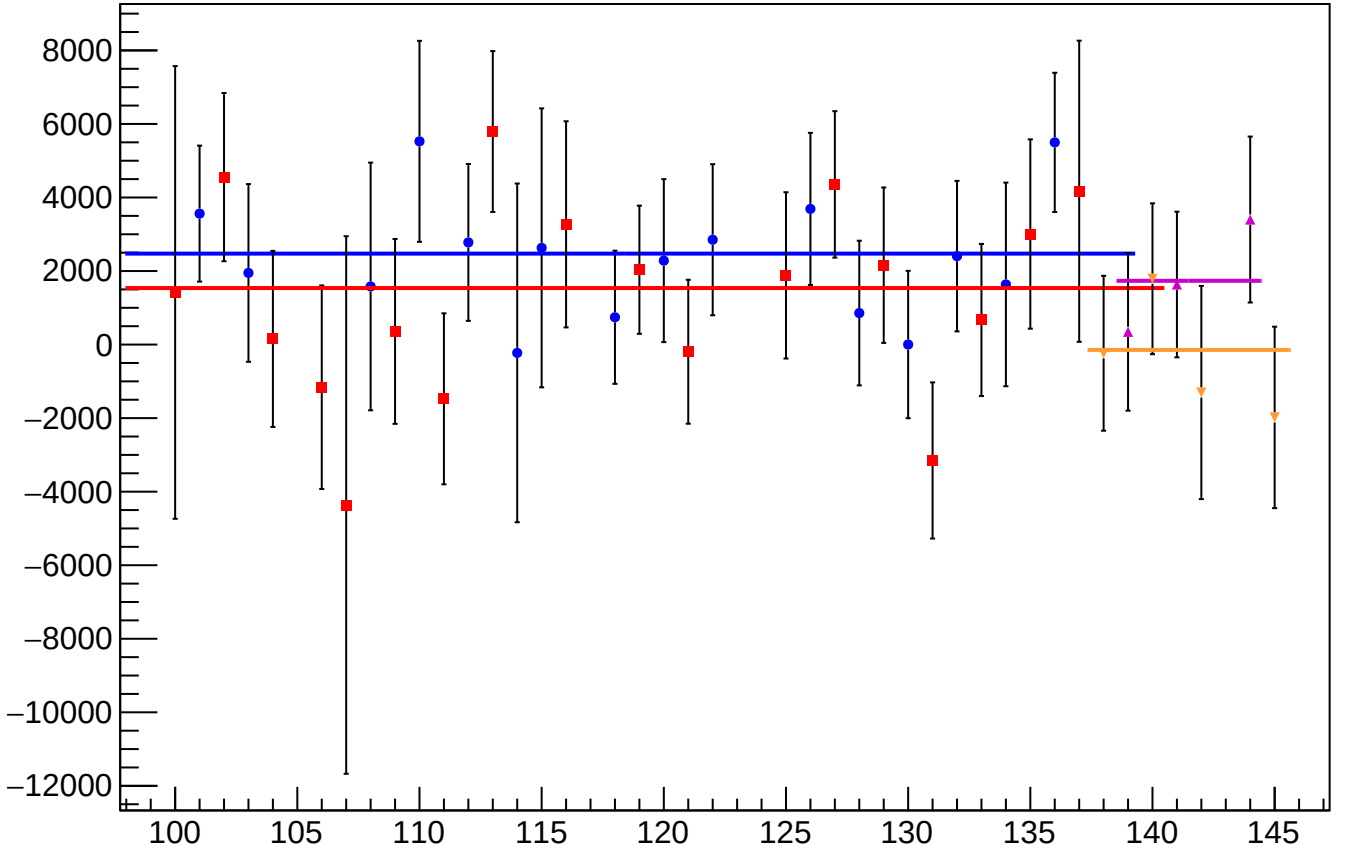
Right: 904.890+/-0.175 $\chi^2$/NDF: 2419467.8/33

In: 983.282+/-0.234 $\chi^2$/NDF:2000646.0/18

Out: 985.439+/-0.232 $\chi^2$/NDF:2281637.2/21

All: 984.371+/-0.165 $\chi^2$/NDF: 4282325.9/40

# asym_usl_mean vs Slug, Sign Corrected




Right In: 2474.066+/-562.796 $\chi^2$/NDF: 8.2/15

Left Out: -144.881+/-1157.444 $\chi^2$/NDF:1.6/3

Right Out: 1537.435+/-563.556 $\chi^2$/NDF: 18.5/17

Left In: 1734.395+/-1222.718 $\chi^2$/NDF:1.0/2

Left: 743.259+/-840.565 $\chi^2$/NDF: 3.8/6

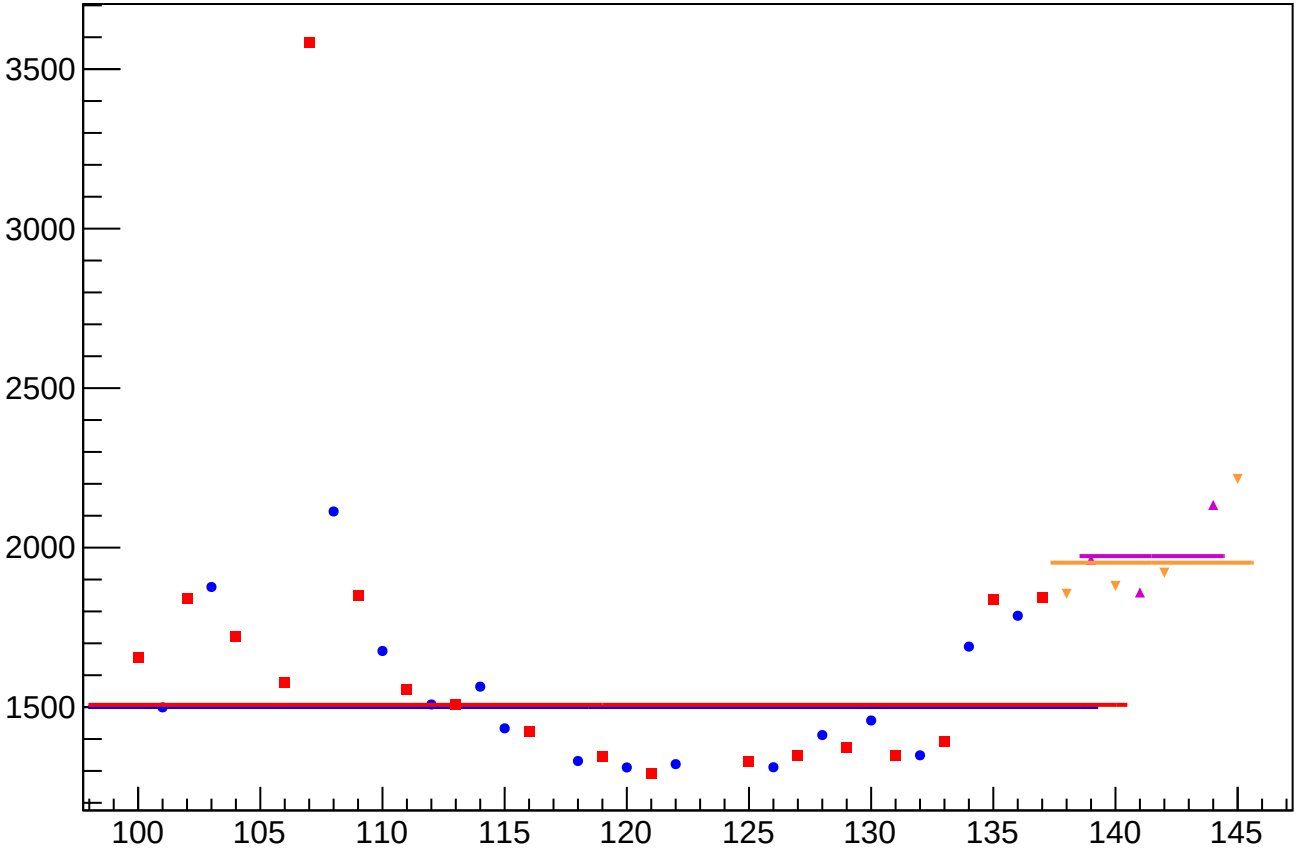
Right: 2006.383+/-398.225 $\chi^2$/NDF: 28.1/33

In: 2344.755+/-511.240 $\chi^2$/NDF:9.5/18

Out: 1215.041+/-506.688 $\chi^2$/NDF:21.8/21

All: 1774.846+/-359.881 $\chi^2$/NDF: 33.8/40

# asym_usl_rms vs Slug, Sign Corrected




Right In: 1500.377+/-0.398 $\chi^2$/NDF: 258792.8/15

Left Out: 1952.794+/-0.818 $\chi^2$/NDF:29710.8/3

Right Out: 1507.098+/-0.398 $\chi^2$/NDF: 401227.7/17

Left In: 1973.433+/-0.865 $\chi^2$/NDF:16779.6/2

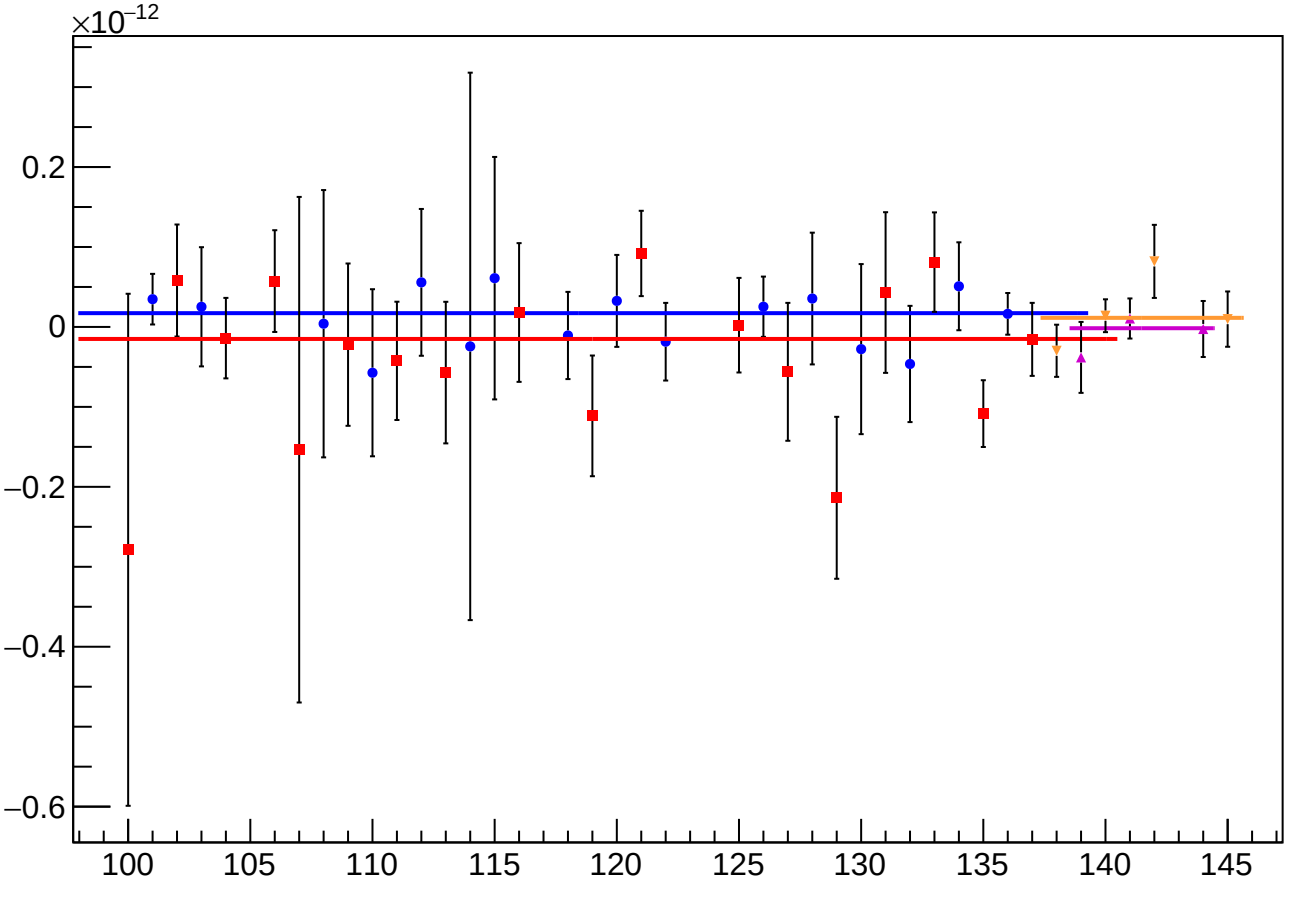
Left: 1962.547+/-0.594 $\chi^2$/NDF: 46791.0/6

Right: 1503.733+/-0.282 $\chi^2$/NDF: 660162.8/33

In: 1583.078+/-0.362 $\chi^2$/NDF:522602.1/18

Out: 1592.510+/-0.358 $\chi^2$/NDF:670663.3/21

All: 1587.836+/-0.254 $\chi^2$/NDF: 1193608.8/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.0/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.9/2

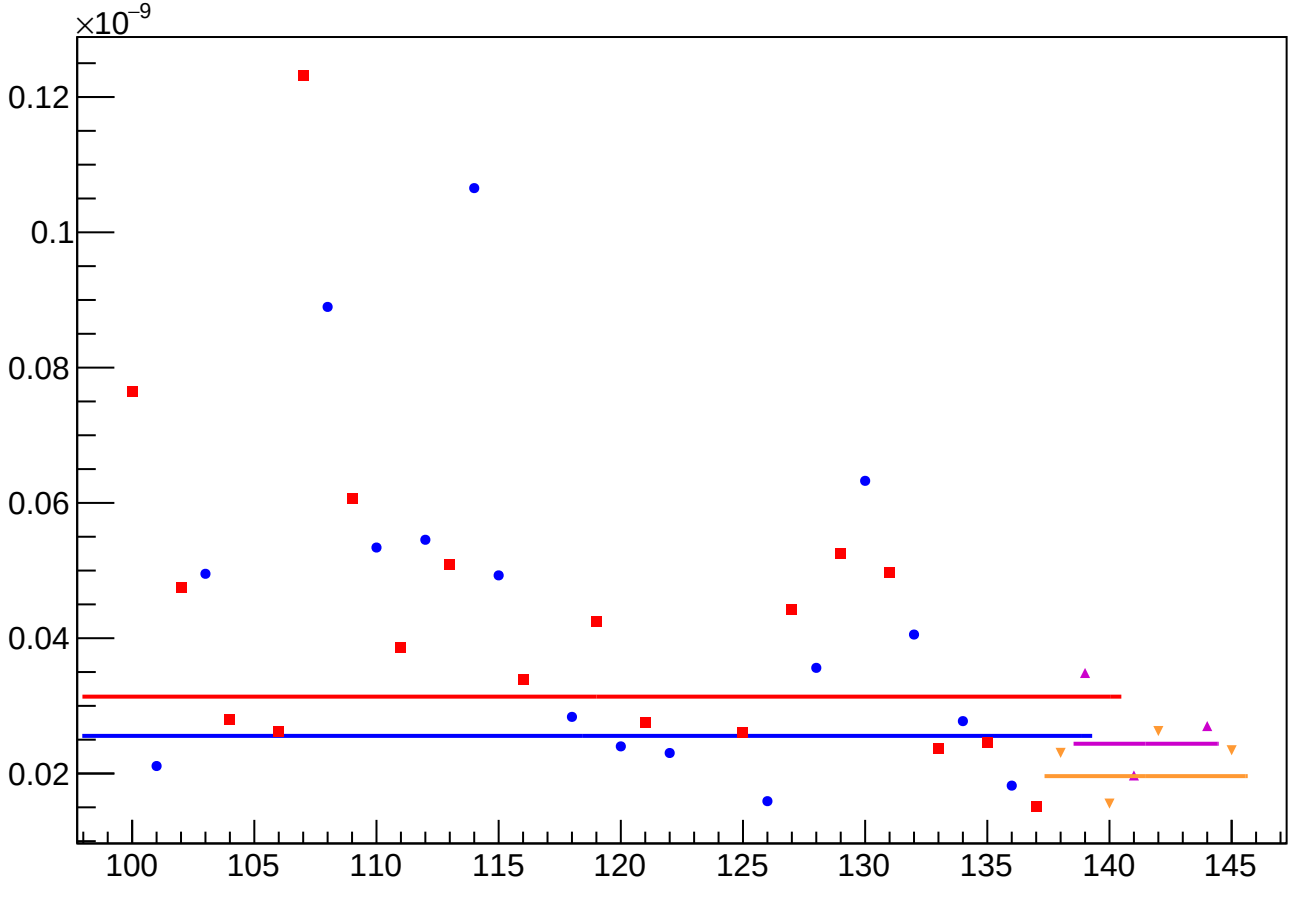
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.2/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 27.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:5.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:26.8/21

All: 0.000+/-0.000 $\chi^2$/NDF: 32.3/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1707801.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:167325.3/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1228078.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:192156.2/2

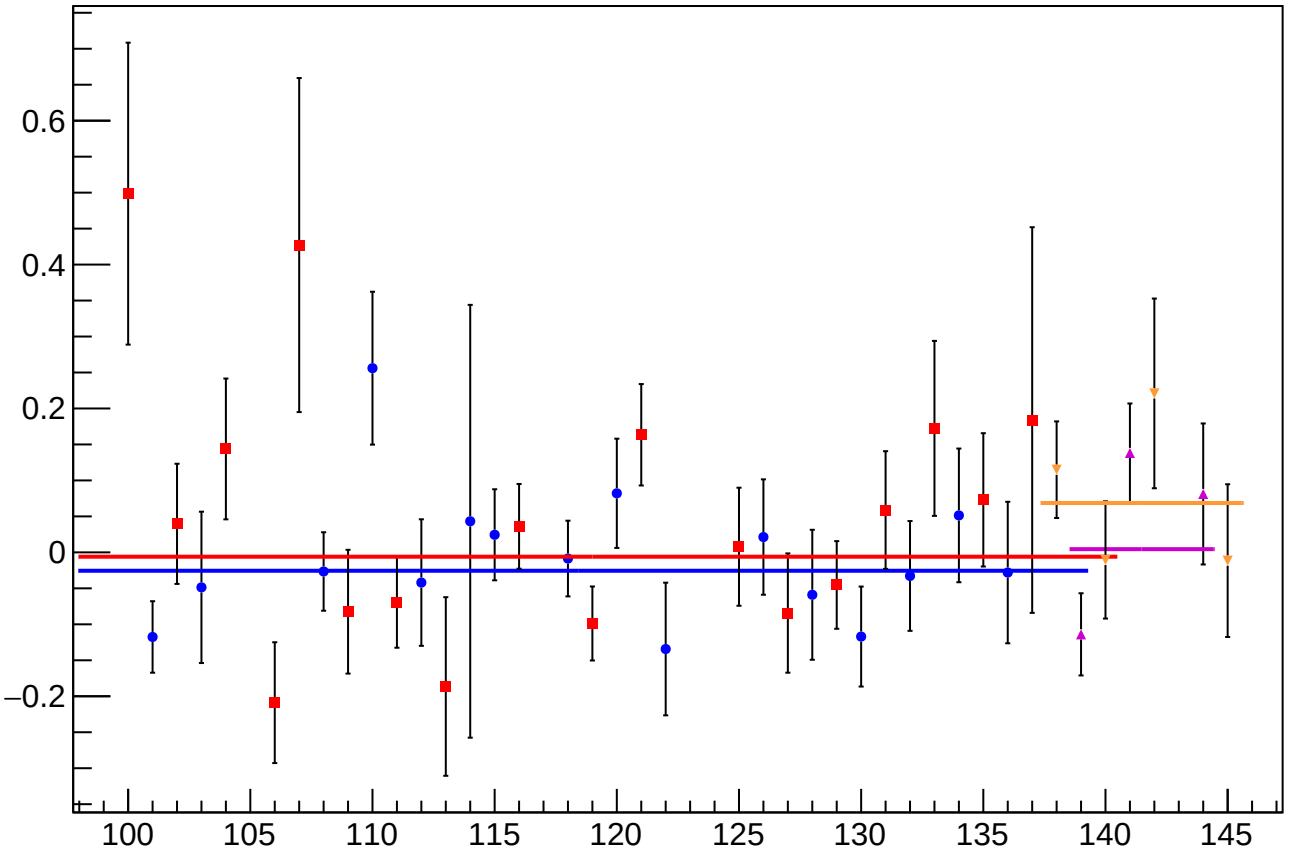
Left: 0.000+/-0.000 $\chi^2$/NDF: 441391.6/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 3088169.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:1905096.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:1976412.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 3881843.5/40




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: 0.069+/-0.044 $\chi^2$/NDF:3.3/3

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: 0.004+/-0.040 $\chi^2$/NDF:8.7/2

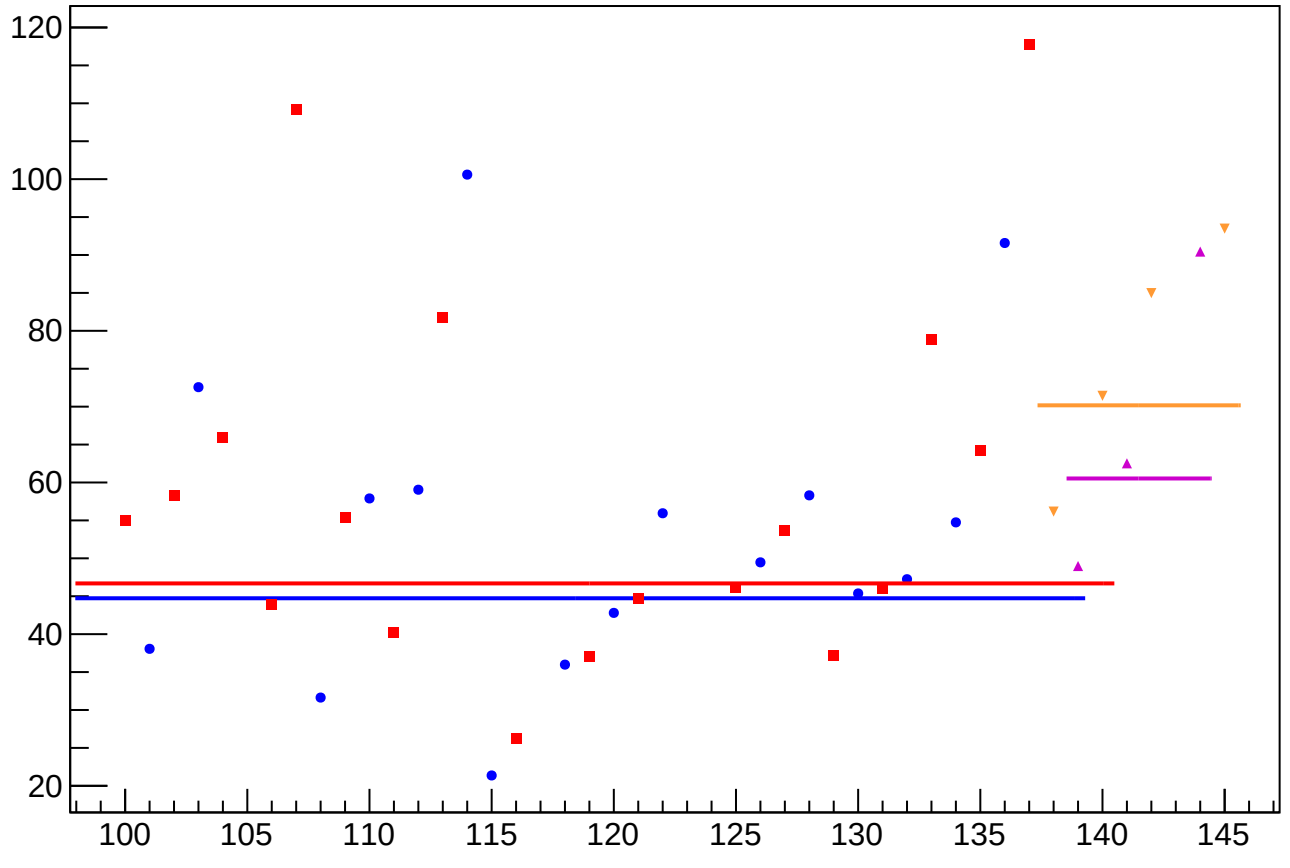
Left: 0.034+/-0.030 $\chi^2$/NDF: 13.2/6

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.020+/-0.017 $\chi^2$/NDF:26.8/18

Out: 0.006+/-0.018 $\chi^2$/NDF:42.3/21

All: -0.008+/-0.012 $\chi^2$/NDF: 70.2/40




Right In: 44.733+/-0.013 $\chi^2$/NDF: 1334541.9/15

Left Out: 70.174+/-0.031 $\chi^2$/NDF:209157.6/3

Right Out: 46.691+/-0.014 $\chi^2$/NDF: 1195464.6/17

Left In: 60.528+/-0.028 $\chi^2$/NDF:269825.5/2

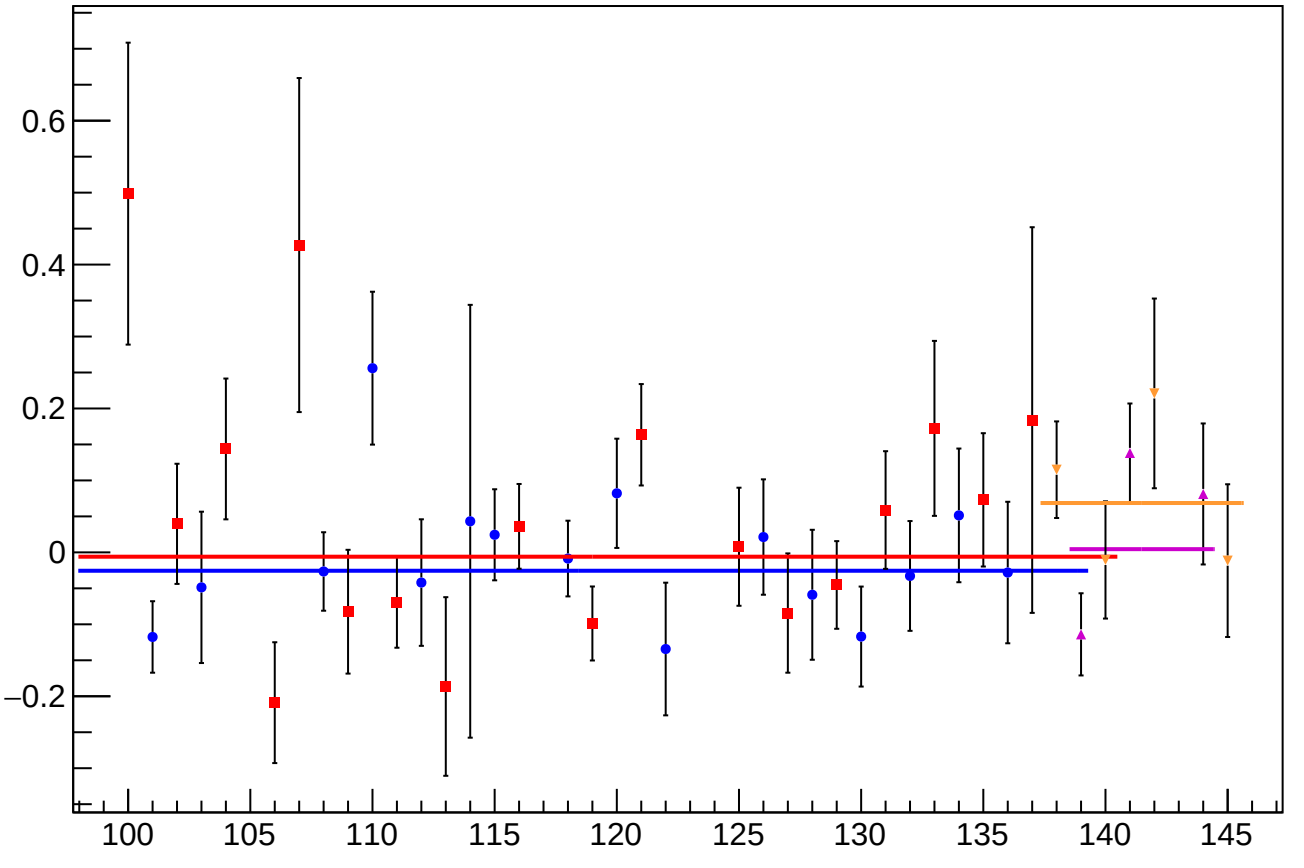
Left: 64.913+/-0.021 $\chi^2$/NDF: 531643.5/6

Right: 45.680+/-0.010 $\chi^2$/NDF: 2540529.3/33

In: 47.573+/-0.012 $\chi^2$/NDF:1859108.5/18

Out: 50.524+/-0.013 $\chi^2$/NDF:1883411.1/21

All: 48.986+/-0.009 $\chi^2$/NDF: 3771371.7/40




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: 0.069+/-0.044 $\chi^2$/NDF:3.3/3

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: 0.004+/-0.040 $\chi^2$/NDF:8.7/2

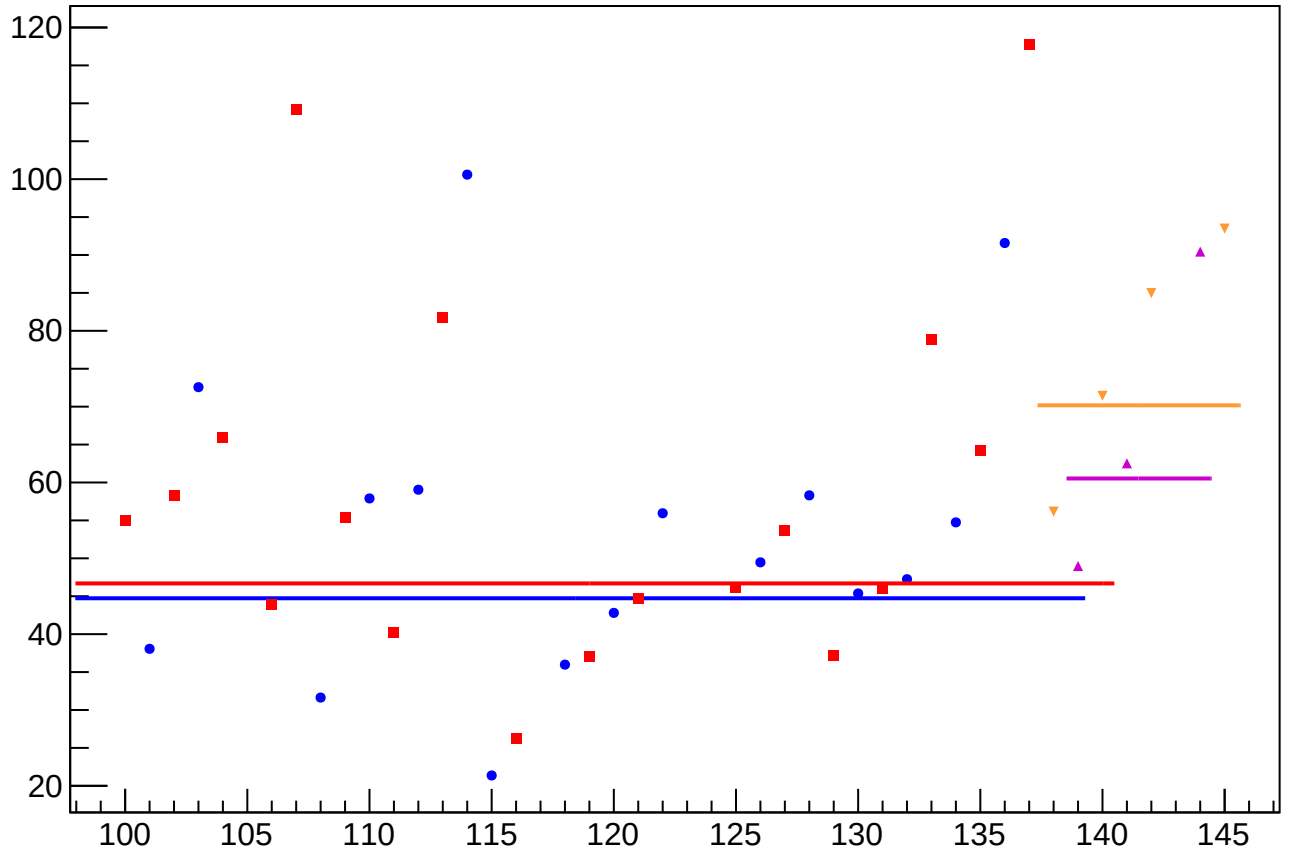
Left: 0.034+/-0.030 $\chi^2$/NDF: 13.2/6

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.020+/-0.017 $\chi^2$/NDF:26.8/18

Out: 0.006+/-0.018 $\chi^2$/NDF:42.3/21

All: -0.008+/-0.012 $\chi^2$/NDF: 70.2/40




Right In: 44.733+/-0.013 $\chi^2$/NDF: 1334541.9/15

Left Out: 70.174+/-0.031 $\chi^2$/NDF:209157.6/3

Right Out: 46.691+/-0.014 $\chi^2$/NDF: 1195464.6/17

Left In: 60.528+/-0.028 $\chi^2$/NDF:269825.5/2

Left: 64.913+/-0.021 $\chi^2$/NDF: 531643.5/6

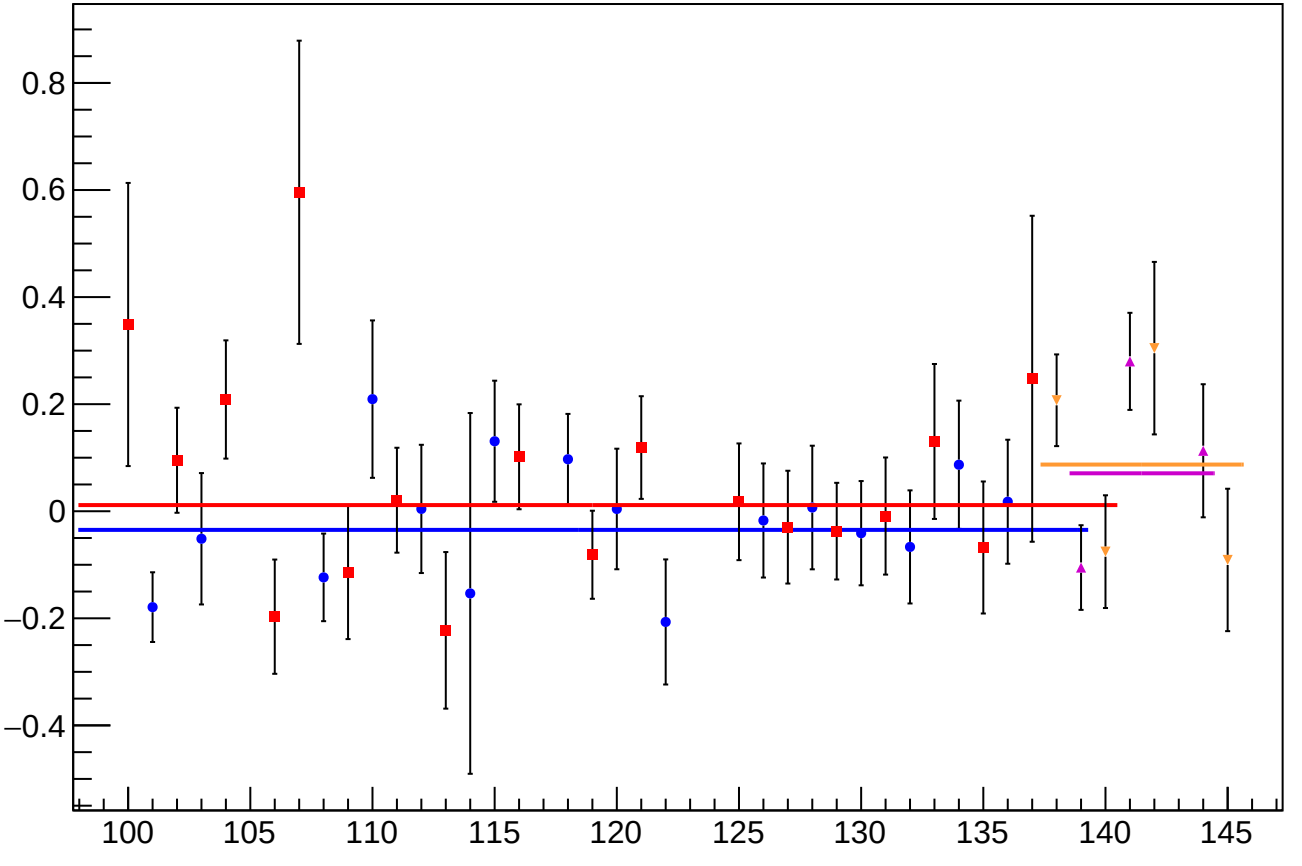
Right: 45.680+/-0.010 $\chi^2$/NDF: 2540529.3/33

In: 47.573+/-0.012 $\chi^2$/NDF:1859108.5/18

Out: 50.524+/-0.013 $\chi^2$/NDF:1883411.1/21

All: 48.986+/-0.009 $\chi^2$/NDF: 3771371.7/40

asym_usl_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.035+/-0.026 $\chi^2$/NDF: 17.4/15

Left Out: 0.087+/-0.056 $\chi^2$/NDF:8.0/3

Right Out: 0.012+/-0.027 $\chi^2$/NDF: 22.8/17

Left In: 0.071+/-0.054 $\chi^2$/NDF:10.4/2

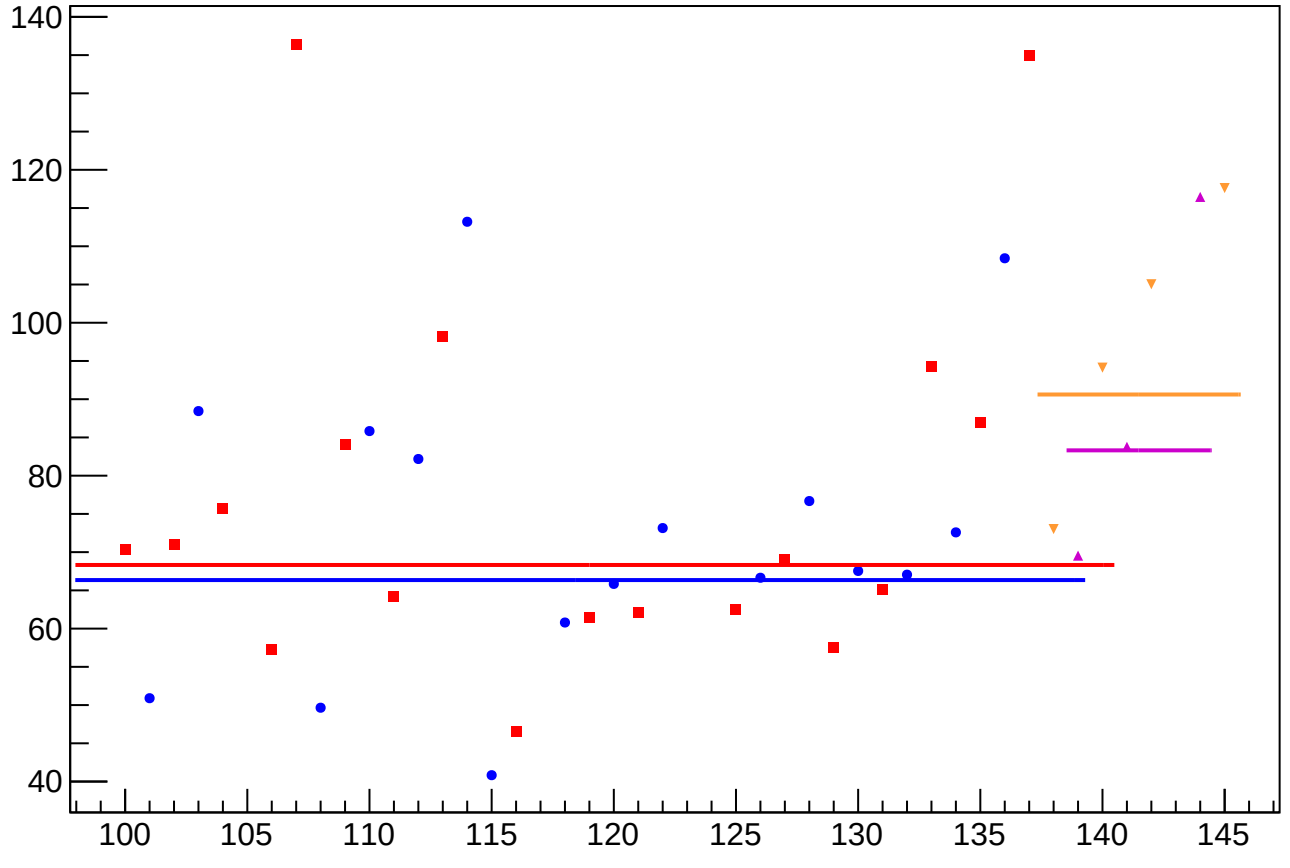
Left: 0.079+/-0.039 $\chi^2$/NDF: 18.4/6

Right: -0.012+/-0.019 $\chi^2$/NDF: 41.7/33

In: -0.014+/-0.024 $\chi^2$/NDF:31.0/18

Out: 0.026+/-0.024 $\chi^2$/NDF:32.2/21

All: 0.005+/-0.017 $\chi^2$/NDF: 64.6/40




Right In: 66.348+/-0.019 $\chi^2$/NDF: 772653.3/15

Left Out: 90.616+/-0.039 $\chi^2$/NDF:185069.5/3

Right Out: 68.322+/-0.019 $\chi^2$/NDF: 629670.0/17

Left In: 83.312+/-0.038 $\chi^2$/NDF:202893.6/2

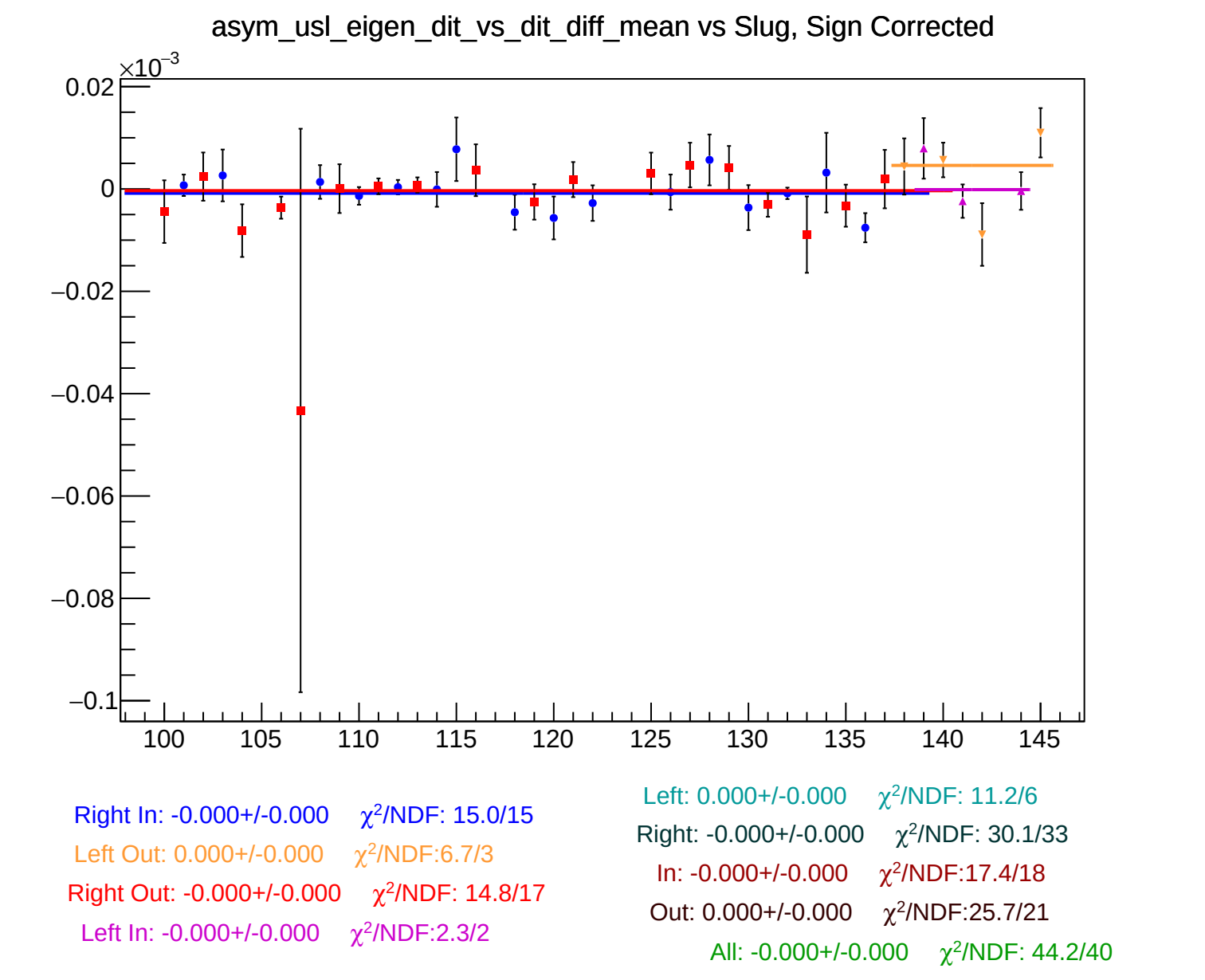
Left: 86.828+/-0.027 $\chi^2$/NDF: 405754.5/6

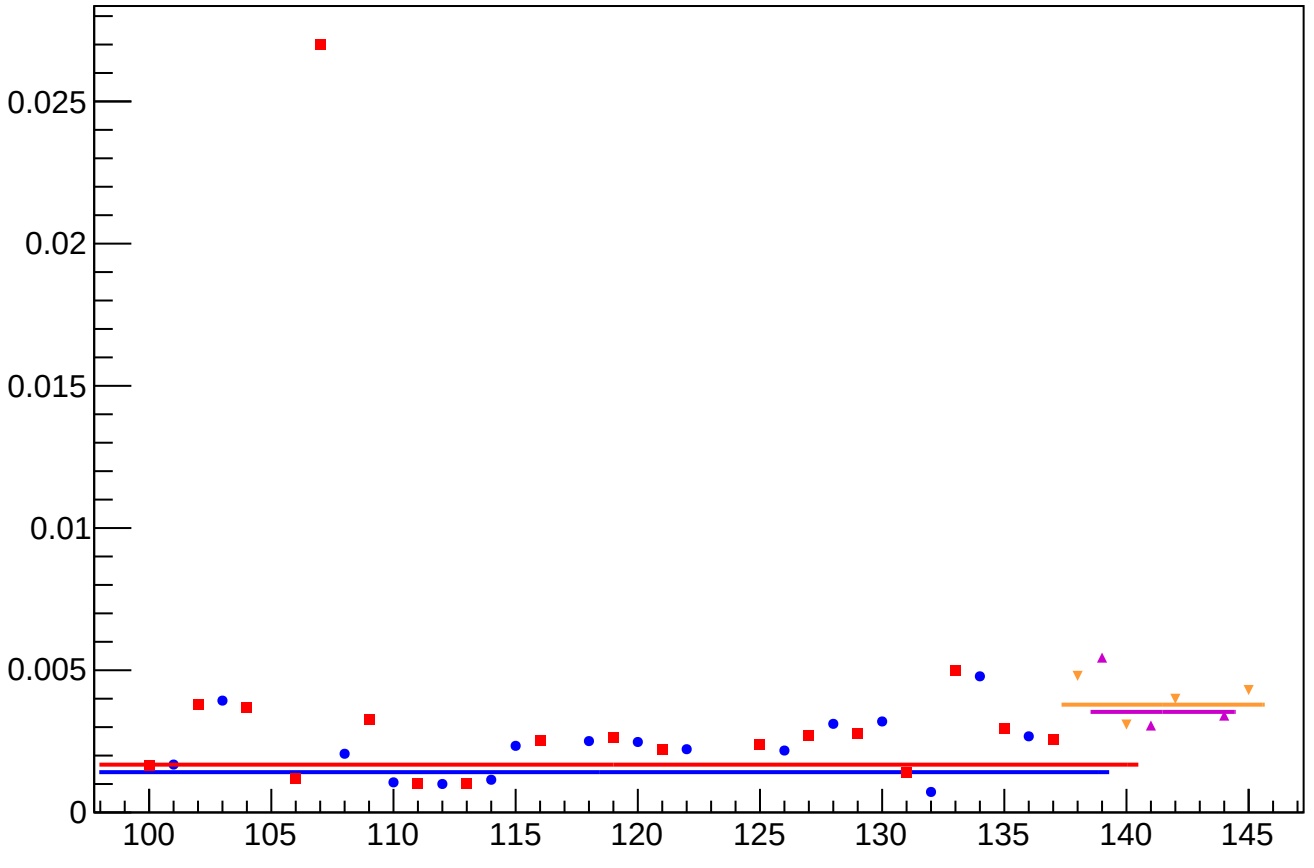
Right: 67.312+/-0.013 $\chi^2$/NDF: 1407833.1/33

In: 69.621+/-0.017 $\chi^2$/NDF:1136393.5/18

Out: 72.530+/-0.017 $\chi^2$/NDF:1074029.1/21

All: 71.038+/-0.012 $\chi^2$/NDF: 2225219.2/40


asym_usl_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 15.0/15
Left Out: 0.000+/-0.000 χ²/NDF:6.7/3
Right Out: -0.000+/-0.000 χ²/NDF: 14.8/17
Left In: -0.000+/-0.000 χ²/NDF:2.3/2
Left: 0.000+/-0.000 χ²/NDF: 11.2/6
Right: -0.000+/-0.000 χ²/NDF: 30.1/33
In: -0.000+/-0.000 χ²/NDF:17.4/18
Out: 0.000+/-0.000 χ²/NDF:25.7/21
All: -0.000+/-0.000 χ²/NDF: 44.2/40




Right In: 0.001+/-0.000 $\chi^2$/NDF: 3547259.2/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:178580.7/3

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3427218.5/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:253419.3/2

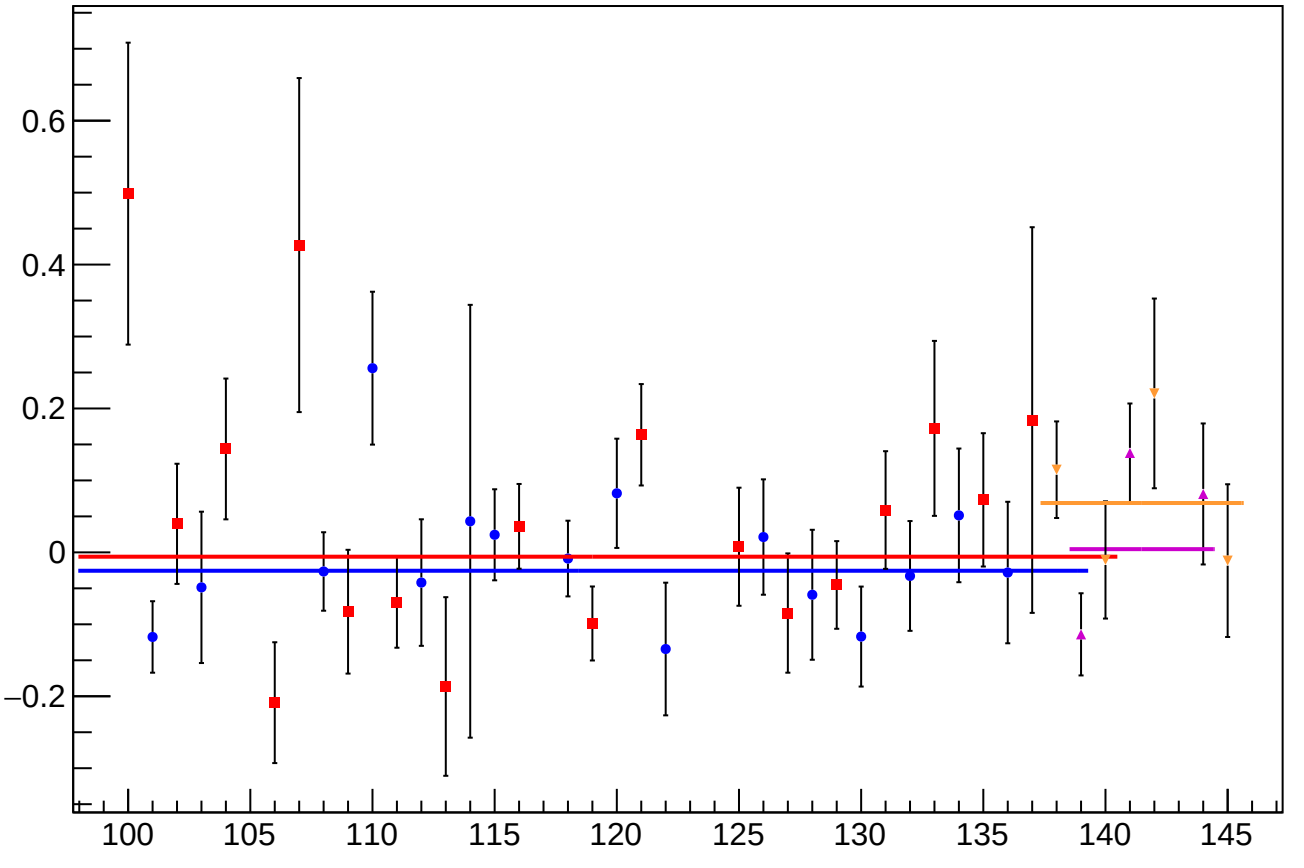
Left: 0.004+/-0.000 $\chi^2$/NDF: 444555.9/6

Right: 0.002+/-0.000 $\chi^2$/NDF: 7128830.6/33

In: 0.002+/-0.000 $\chi^2$/NDF:5440696.9/18

Out: 0.002+/-0.000 $\chi^2$/NDF:5145453.3/21

All: 0.002+/-0.000 $\chi^2$/NDF: 10815713.7/40




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: 0.069+/-0.044 $\chi^2$/NDF:3.3/3

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: 0.004+/-0.040 $\chi^2$/NDF:8.7/2

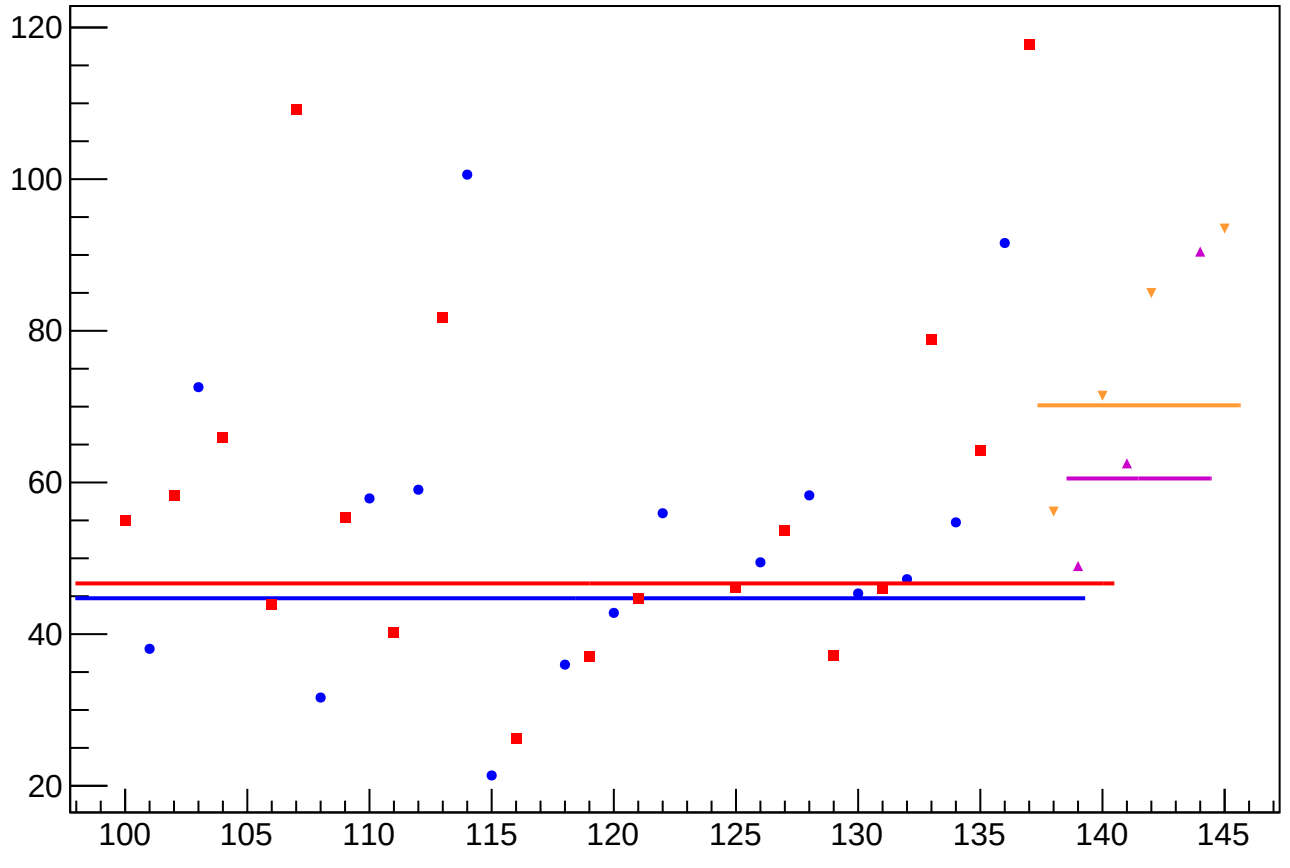
Left: 0.034+/-0.030 $\chi^2$/NDF: 13.2/6

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.020+/-0.017 $\chi^2$/NDF:26.8/18

Out: 0.006+/-0.018 $\chi^2$/NDF:42.3/21

All: -0.008+/-0.012 $\chi^2$/NDF: 70.2/40




Right In: 44.732+/-0.013 $\chi^2$/NDF: 1334604.0/15

Left Out: 70.174+/-0.031 $\chi^2$/NDF:209163.1/3

Right Out: 46.690+/-0.014 $\chi^2$/NDF: 1195504.1/17

Left In: 60.528+/-0.028 $\chi^2$/NDF:269810.9/2

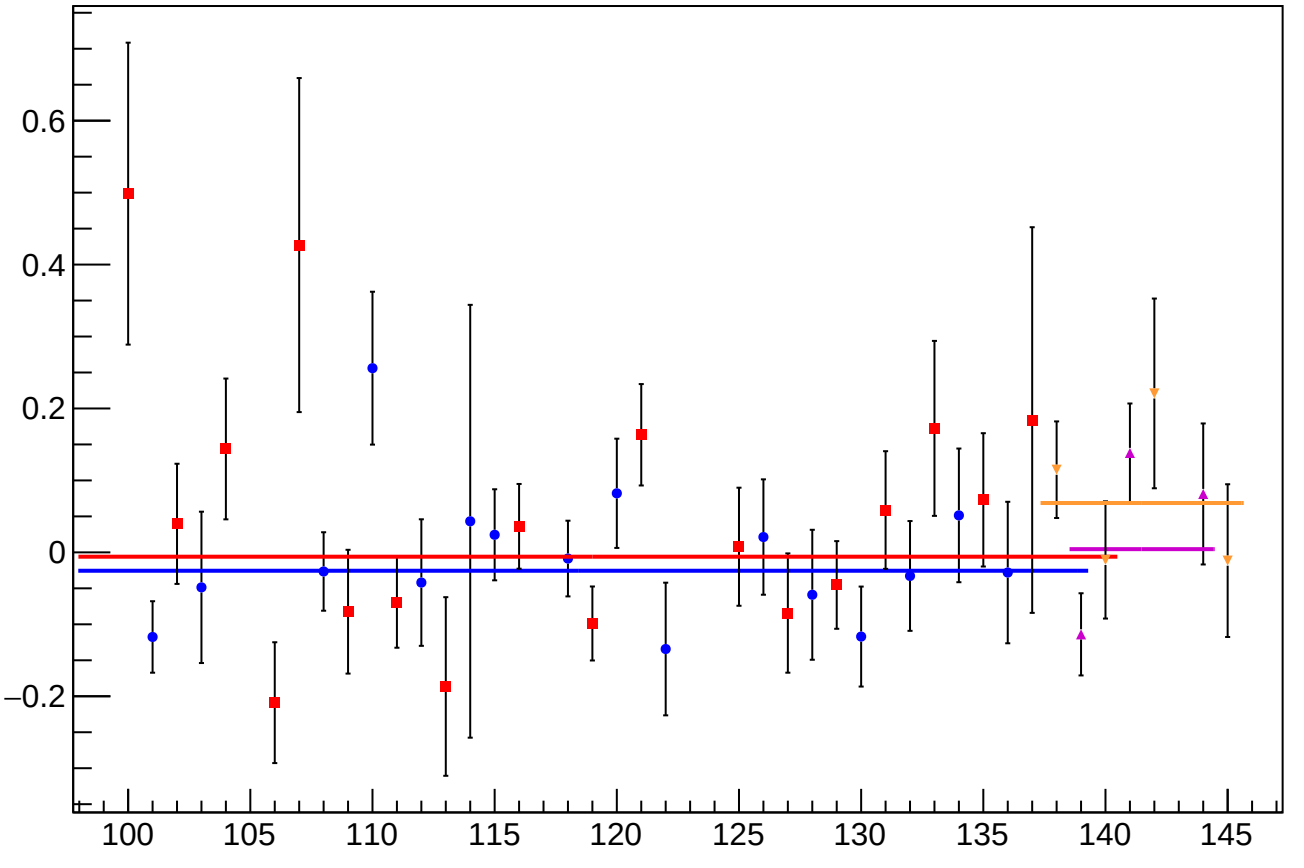
Left: 64.913+/-0.021 $\chi^2$/NDF: 531626.7/6

Right: 45.679+/-0.010 $\chi^2$/NDF: 2540631.2/33

In: 47.573+/-0.012 $\chi^2$/NDF:1859192.3/18

Out: 50.523+/-0.013 $\chi^2$/NDF:1883479.9/21

All: 48.985+/-0.009 $\chi^2$/NDF: 3771522.4/40




Right In: -0.026+/-0.019 $\chi^2$/NDF: 17.6/15

Left Out: 0.069+/-0.044 $\chi^2$/NDF:3.3/3

Right Out: -0.006+/-0.019 $\chi^2$/NDF: 36.5/17

Left In: 0.004+/-0.040 $\chi^2$/NDF:8.7/2

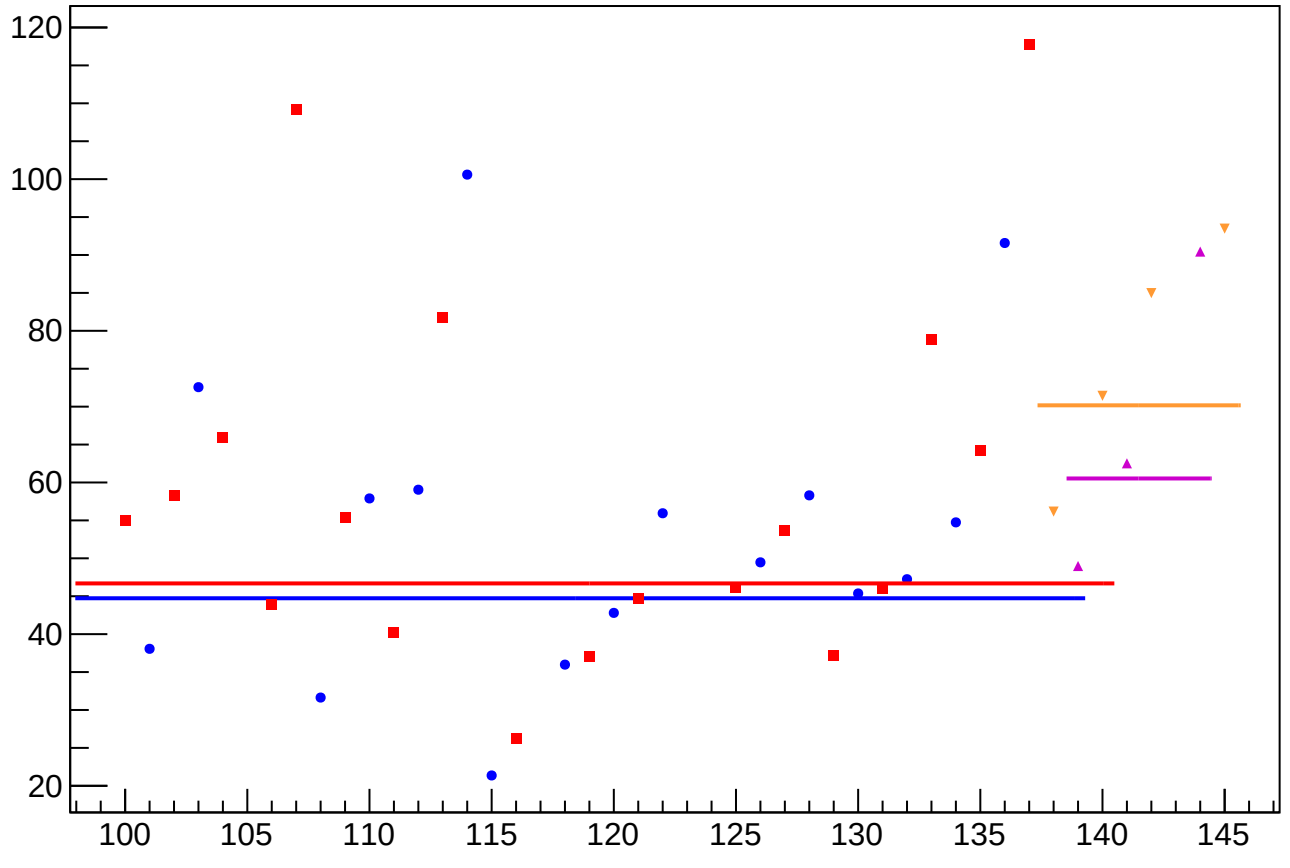
Left: 0.034+/-0.030 $\chi^2$/NDF: 13.2/6

Right: -0.016+/-0.013 $\chi^2$/NDF: 54.7/33

In: -0.020+/-0.017 $\chi^2$/NDF:26.8/18

Out: 0.006+/-0.018 $\chi^2$/NDF:42.3/21

All: -0.008+/-0.012 $\chi^2$/NDF: 70.2/40




Right In: 44.732+/-0.013 $\chi^2$/NDF: 1334604.0/15

Left Out: 70.174+/-0.031 $\chi^2$/NDF:209163.1/3

Right Out: 46.690+/-0.014 $\chi^2$/NDF: 1195504.1/17

Left In: 60.528+/-0.028 $\chi^2$/NDF:269810.9/2

Left: 64.913+/-0.021 $\chi^2$/NDF: 531626.7/6

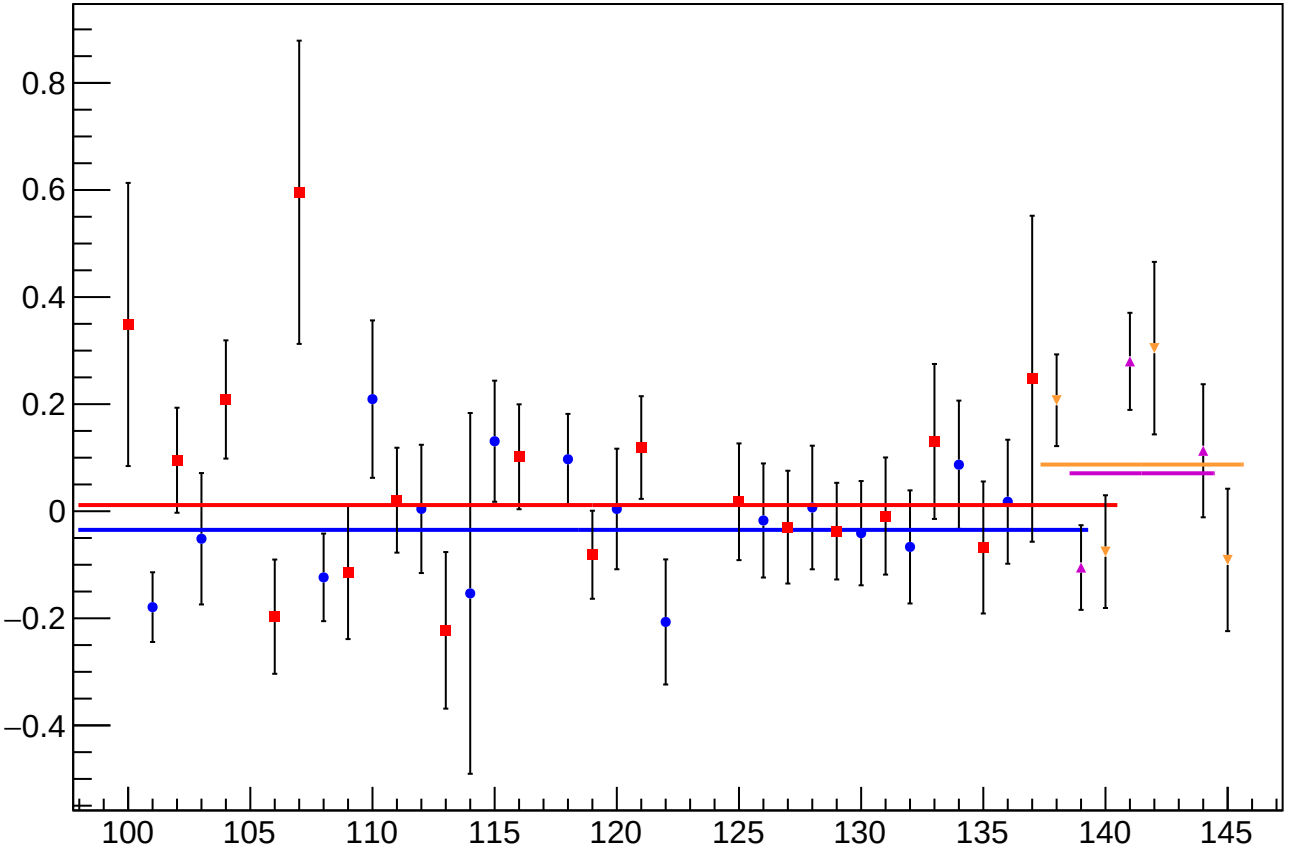
Right: 45.679+/-0.010 $\chi^2$/NDF: 2540631.2/33

In: 47.573+/-0.012 $\chi^2$/NDF:1859192.3/18

Out: 50.523+/-0.013 $\chi^2$/NDF:1883479.9/21

All: 48.985+/-0.009 $\chi^2$/NDF: 3771522.4/40

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.035+/-0.026 $\chi^2$/NDF: 17.4/15

Left Out: 0.087+/-0.056 $\chi^2$/NDF:8.0/3

Right Out: 0.012+/-0.027 $\chi^2$/NDF: 22.8/17

Left In: 0.071+/-0.054 $\chi^2$/NDF:10.4/2

Left: 0.079+/-0.039 $\chi^2$/NDF: 18.4/6

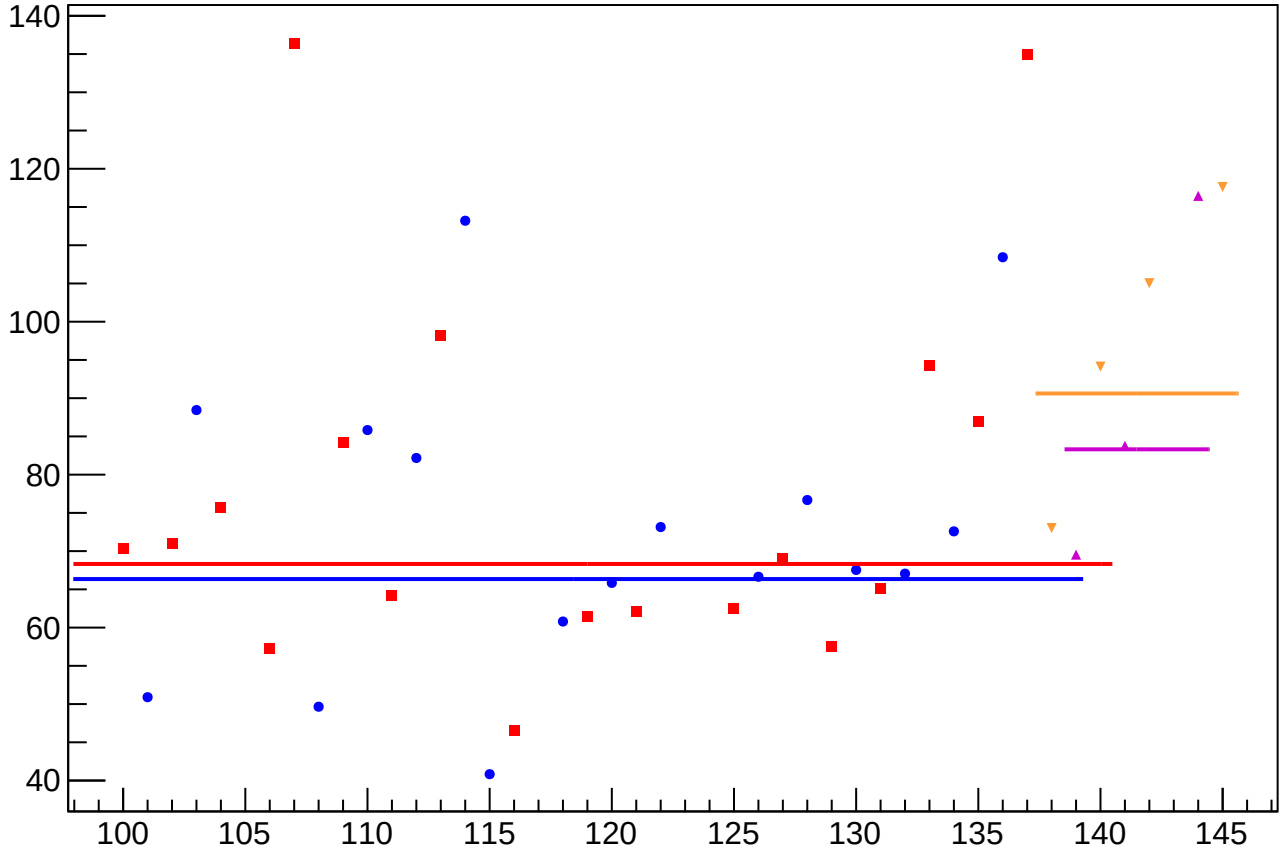
Right: -0.012+/-0.019 $\chi^2$/NDF: 41.7/33

In: -0.014+/-0.024 $\chi^2$/NDF:31.0/18

Out: 0.026+/-0.024 $\chi^2$/NDF:32.2/21

All: 0.005+/-0.017 $\chi^2$/NDF: 64.6/40

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.348+/-0.019 $\chi^2$/NDF: 772660.4/15

Left Out: 90.616+/-0.039 $\chi^2$/NDF:185072.4/3

Right Out: 68.321+/-0.019 $\chi^2$/NDF: 629665.7/17

Left In: 83.312+/-0.038 $\chi^2$/NDF:202885.8/2

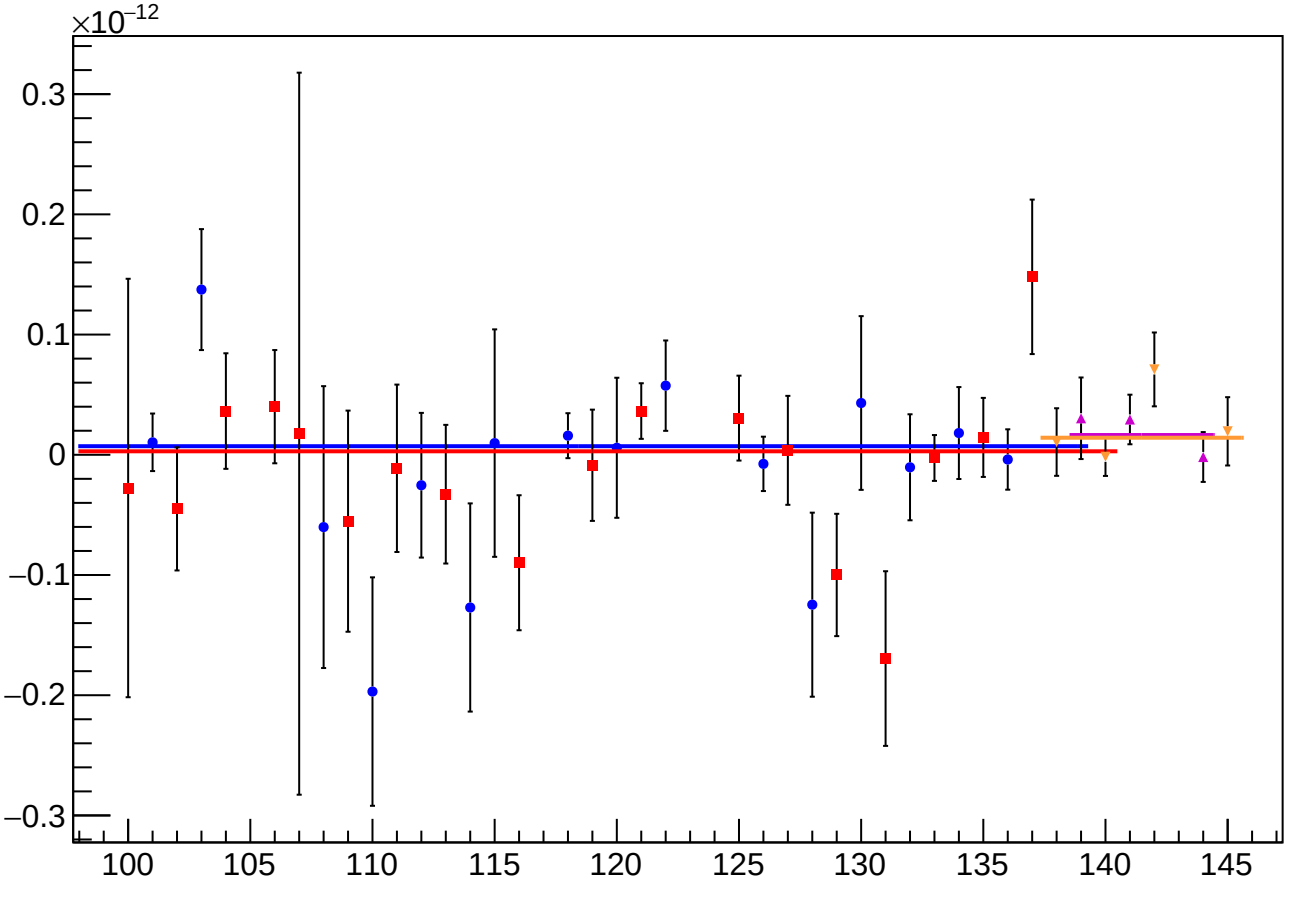
Left: 86.828+/-0.027 $\chi^2$/NDF: 405746.9/6

Right: 67.311+/-0.013 $\chi^2$/NDF: 1407834.9/33

In: 69.621+/-0.017 $\chi^2$/NDF:1136406.5/18

Out: 72.530+/-0.017 $\chi^2$/NDF:1074038.7/21

All: 71.037+/-0.012 $\chi^2$/NDF: 2225238.9/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.5/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.3/2

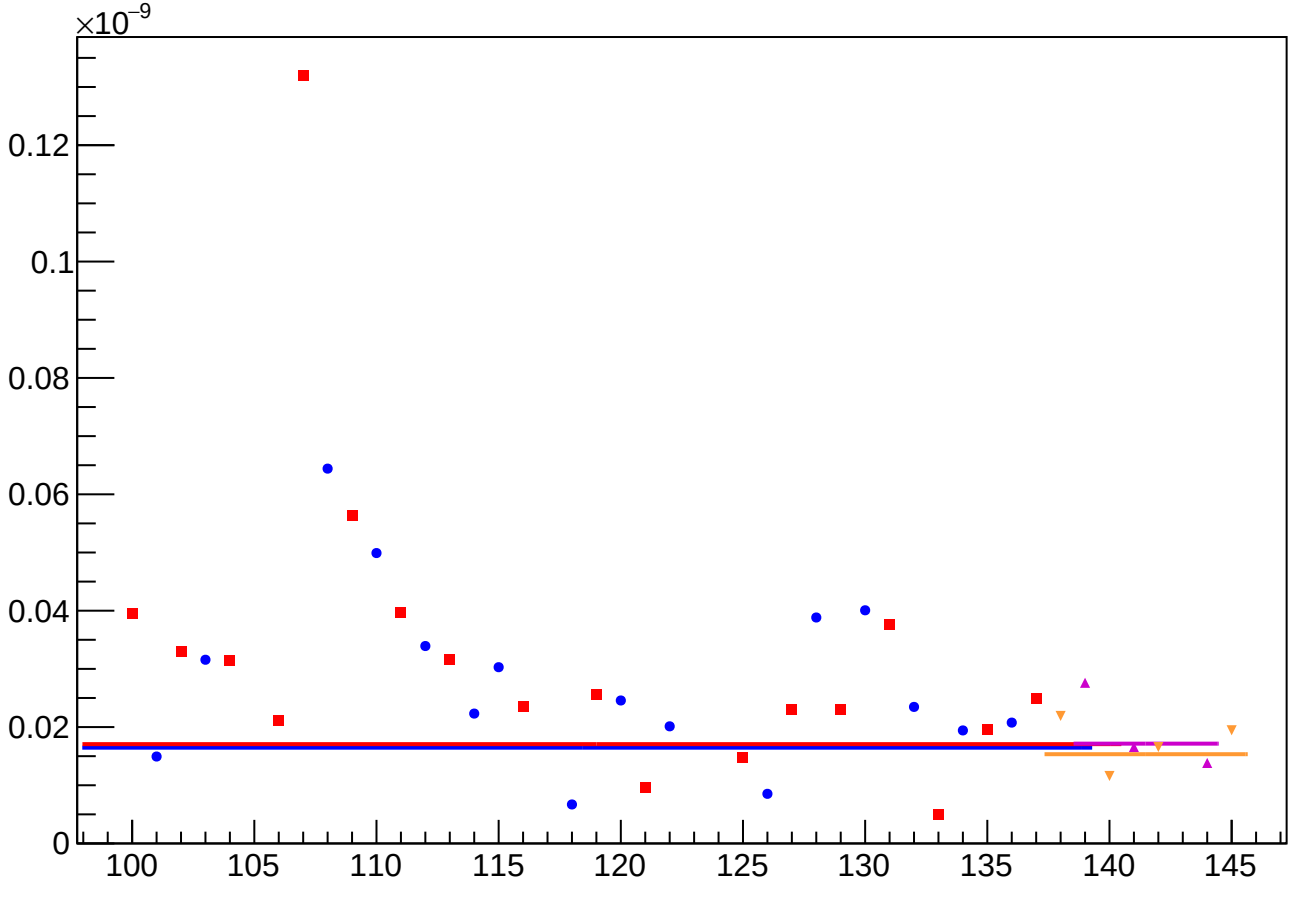
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.8/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 43.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:22.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:28.4/21

All: 0.000+/-0.000 $\chi^2$/NDF: 50.5/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2345888.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:264628.0/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2791354.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:242863.9/2

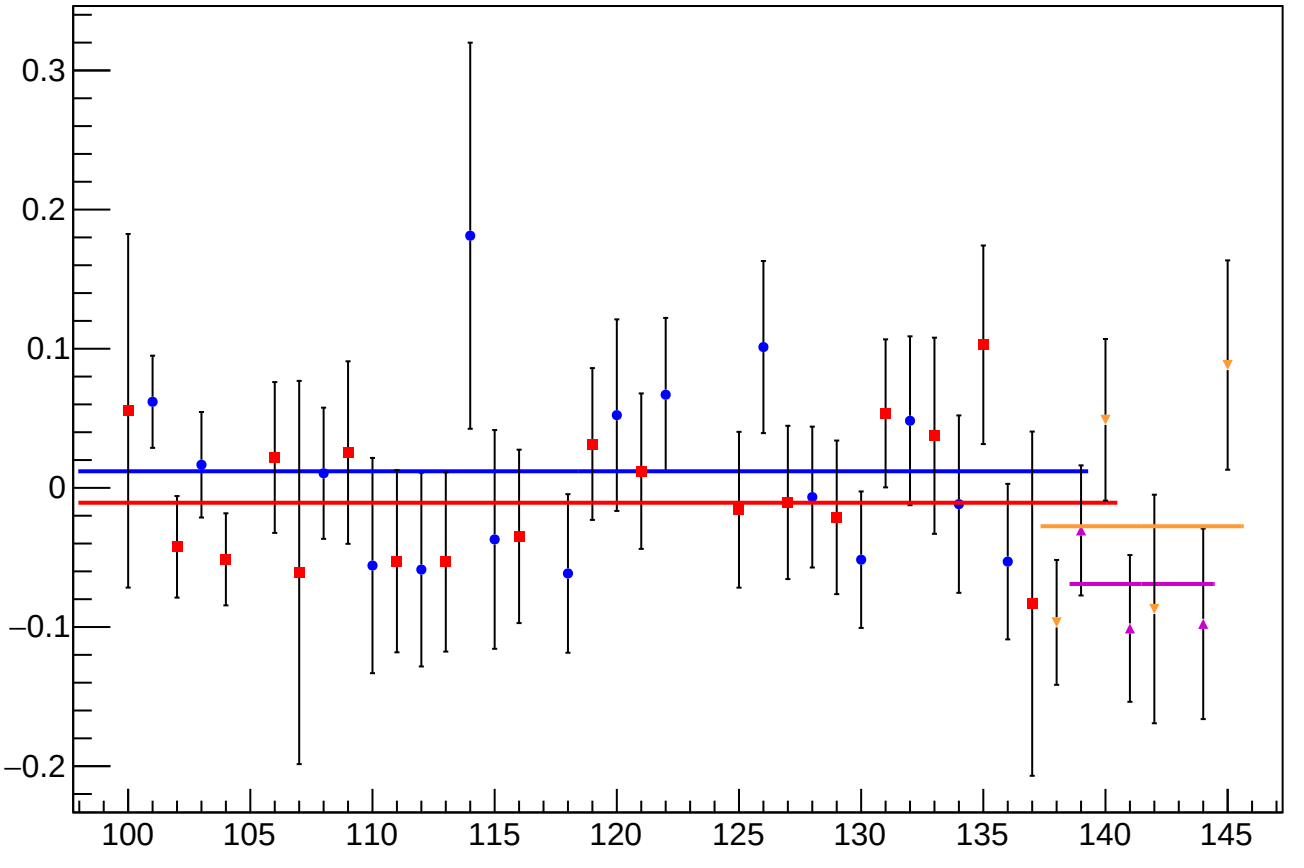
Left: 0.000+/-0.000 $\chi^2$/NDF: 528463.6/6

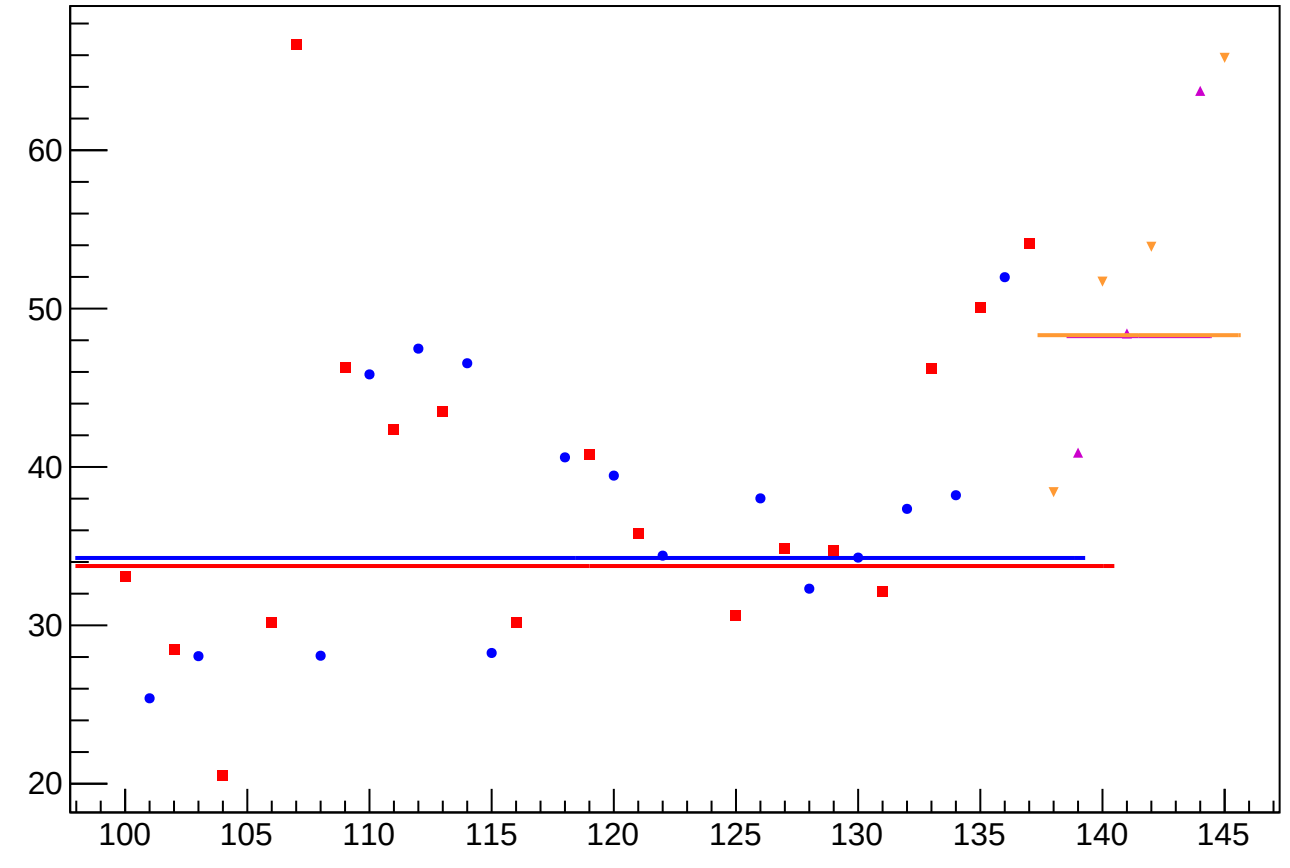
Right: 0.000+/-0.000 $\chi^2$/NDF: 5141308.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:2592348.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3082029.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 5676411.5/40


asym_usl_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected
0.3
0.2
0.1
0
−0.1
−0.2
100
105
110
115
120
125
130
135
140
145
Right In: 0.012+/-0.014 χ²/NDF: 14.7/15
Left Out: -0.028+/-0.030 χ²/NDF:7.0/3
Right Out: -0.011+/-0.013 χ²/NDF: 9.9/17
Left In: -0.069+/-0.031 χ²/NDF:1.2/2
Left: -0.047+/-0.022 χ²/NDF: 9.1/6
Right: 0.000+/-0.010 χ²/NDF: 26.0/33
In: -0.001+/-0.012 χ²/NDF:21.6/18
Out: -0.014+/-0.012 χ²/NDF:17.2/21
All: -0.007+/-0.009 χ²/NDF: 39.3/40




Right In: 34.254+/-0.010 $\chi^2$/NDF: 636017.1/15

Left Out: 48.322+/-0.021 $\chi^2$/NDF:221998.5/3

Right Out: 33.746+/-0.010 $\chi^2$/NDF: 911938.6/17

Left In: 48.261+/-0.022 $\chi^2$/NDF:151864.9/2

Left: 48.292+/-0.015 $\chi^2$/NDF: 373867.4/6

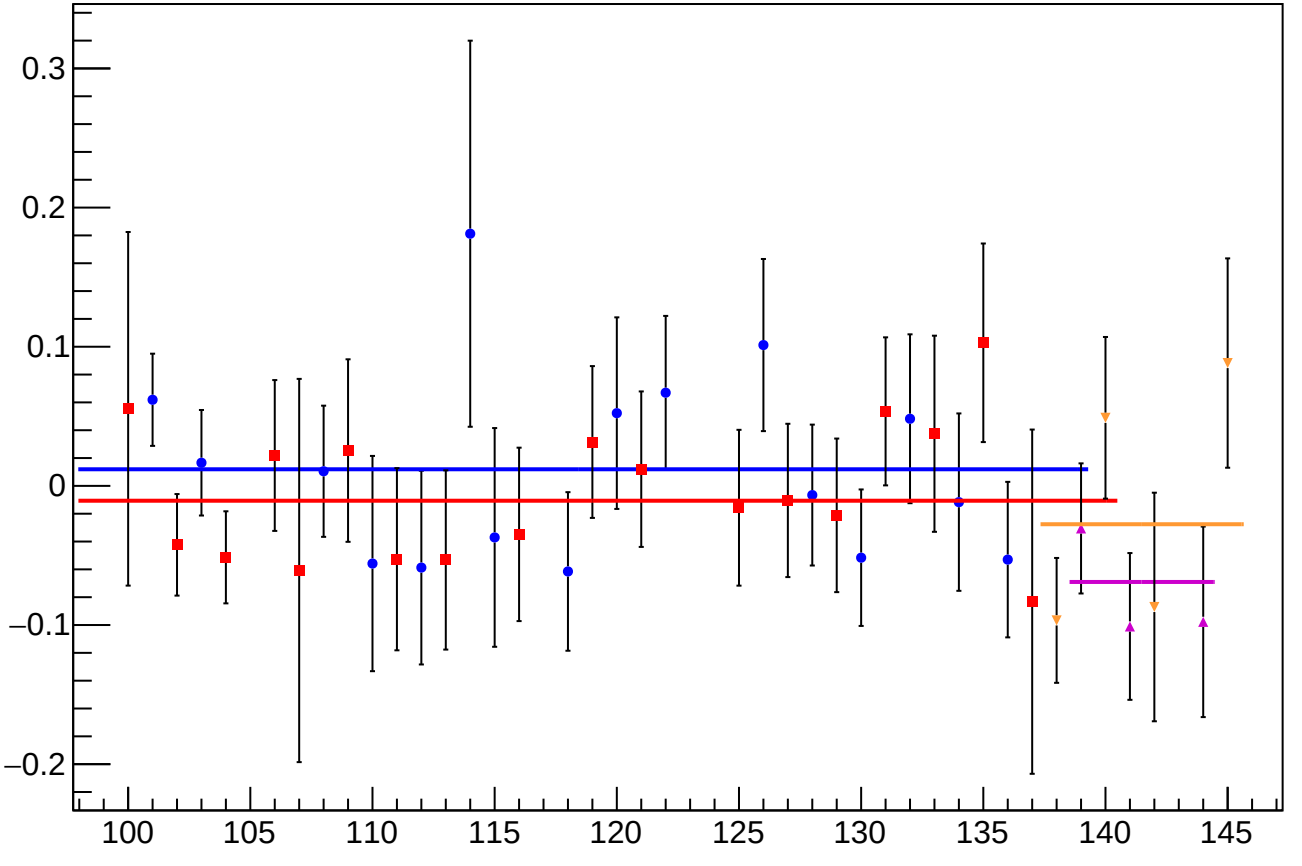
Right: 33.997+/-0.007 $\chi^2$/NDF: 1549368.8/33

In: 36.500+/-0.009 $\chi^2$/NDF:1127311.2/18

Out: 36.195+/-0.009 $\chi^2$/NDF:1529107.6/21

All: 36.345+/-0.006 $\chi^2$/NDF: 2657024.4/40

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.012+/-0.014 $\chi^2$/NDF: 14.7/15

Left Out: -0.028+/-0.030 $\chi^2$/NDF:7.0/3

Right Out: -0.011+/-0.013 $\chi^2$/NDF: 9.9/17

Left In: -0.069+/-0.031 $\chi^2$/NDF:1.2/2

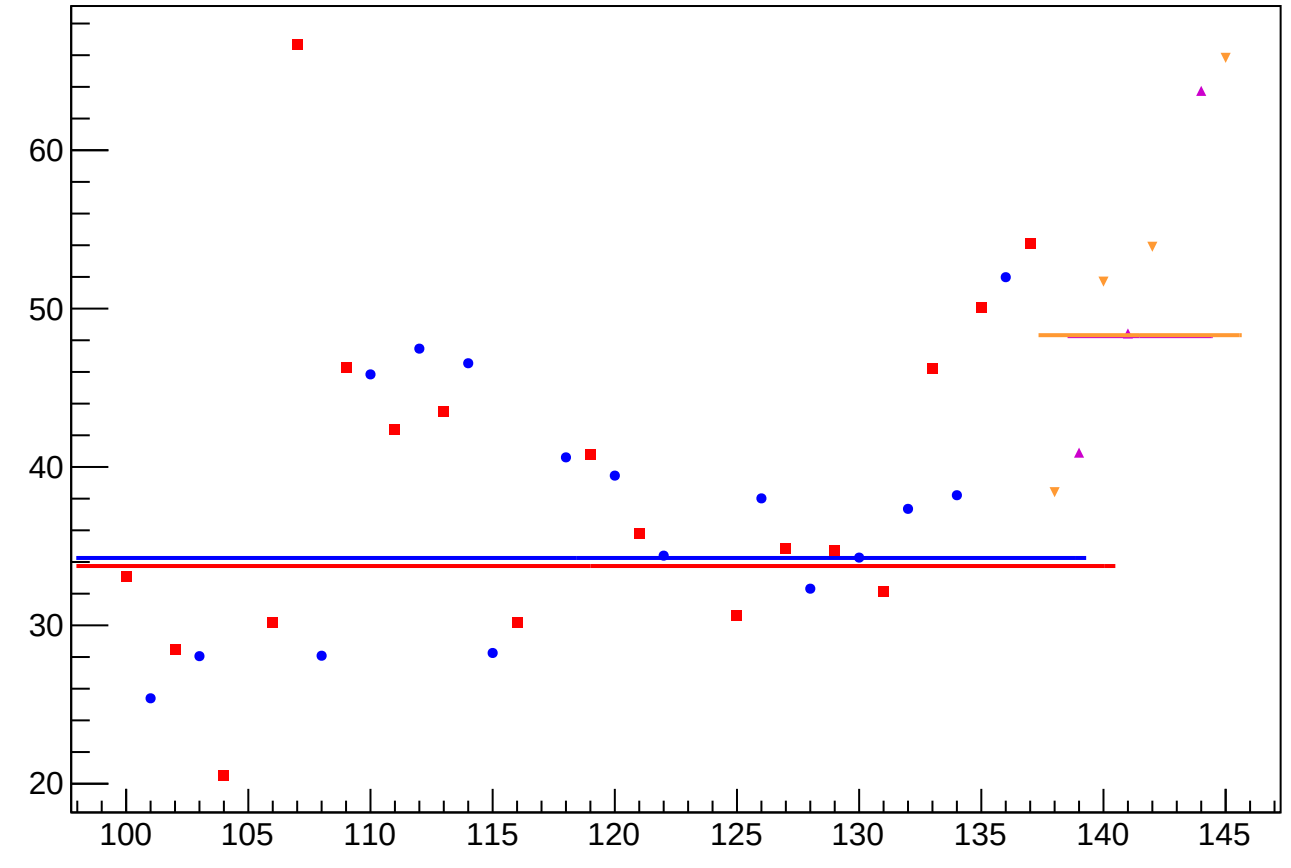
Left: -0.047+/-0.022 $\chi^2$/NDF: 9.1/6

Right: 0.000+/-0.010 $\chi^2$/NDF: 26.0/33

In: -0.001+/-0.012 $\chi^2$/NDF:21.6/18

Out: -0.014+/-0.012 $\chi^2$/NDF:17.2/21

All: -0.007+/-0.009 $\chi^2$/NDF: 39.3/40




Right In: 34.254+/-0.010 $\chi^2$/NDF: 636017.1/15

Left Out: 48.322+/-0.021 $\chi^2$/NDF:221998.5/3

Right Out: 33.746+/-0.010 $\chi^2$/NDF: 911938.6/17

Left In: 48.261+/-0.022 $\chi^2$/NDF:151864.9/2

Left: 48.292+/-0.015 $\chi^2$/NDF: 373867.4/6

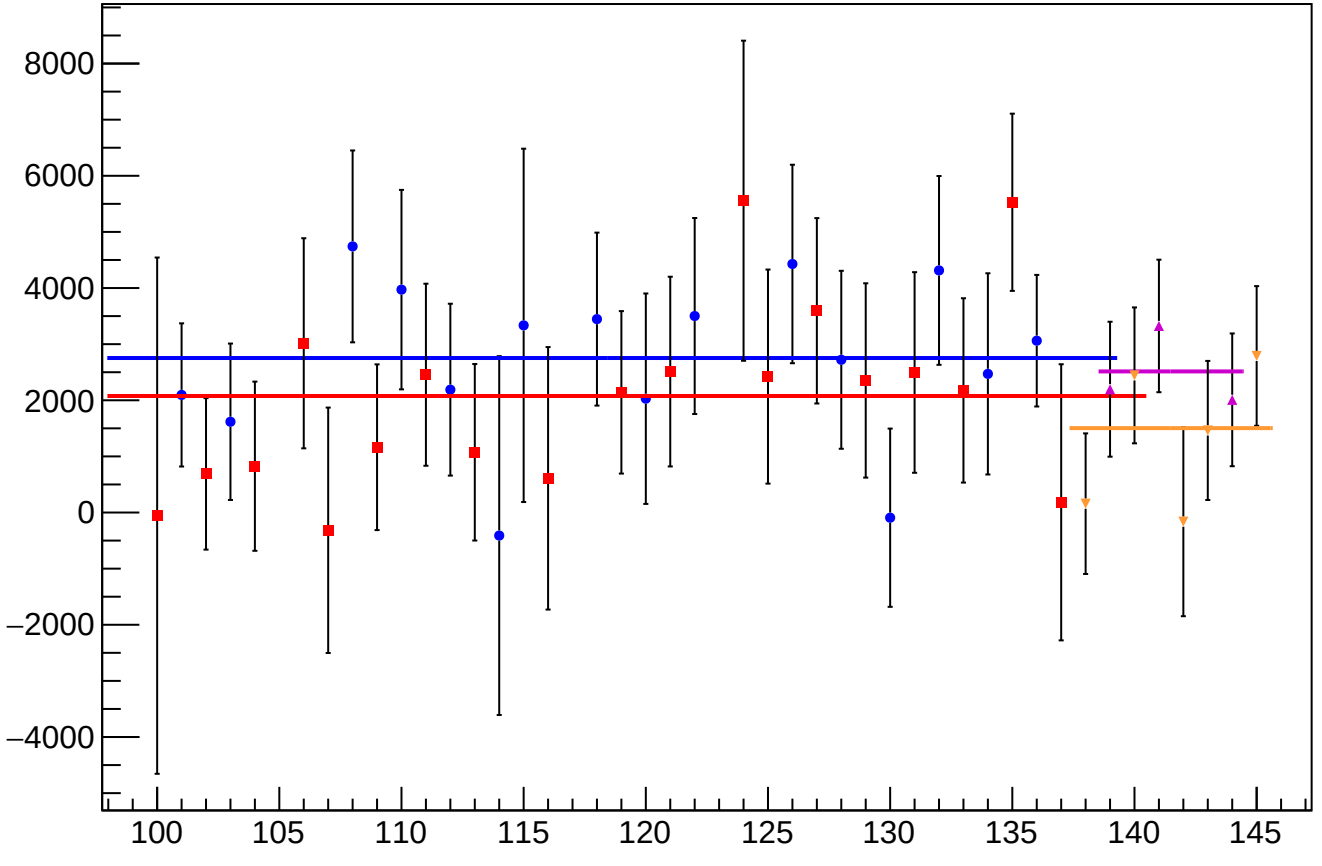
Right: 33.997+/-0.007 $\chi^2$/NDF: 1549368.8/33

In: 36.500+/-0.009 $\chi^2$/NDF:1127311.2/18

Out: 36.195+/-0.009 $\chi^2$/NDF:1529107.6/21

All: 36.345+/-0.006 $\chi^2$/NDF: 2657024.4/40

# reg_asym_usr_mean vs Slug, Sign Corrected




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 1503.745+/-580.326 $\chi^2$/NDF:3.8/4

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2514.251+/-686.097 $\chi^2$/NDF:0.7/2

Left: 1925.185+/-443.082 $\chi^2$/NDF: 5.8/7

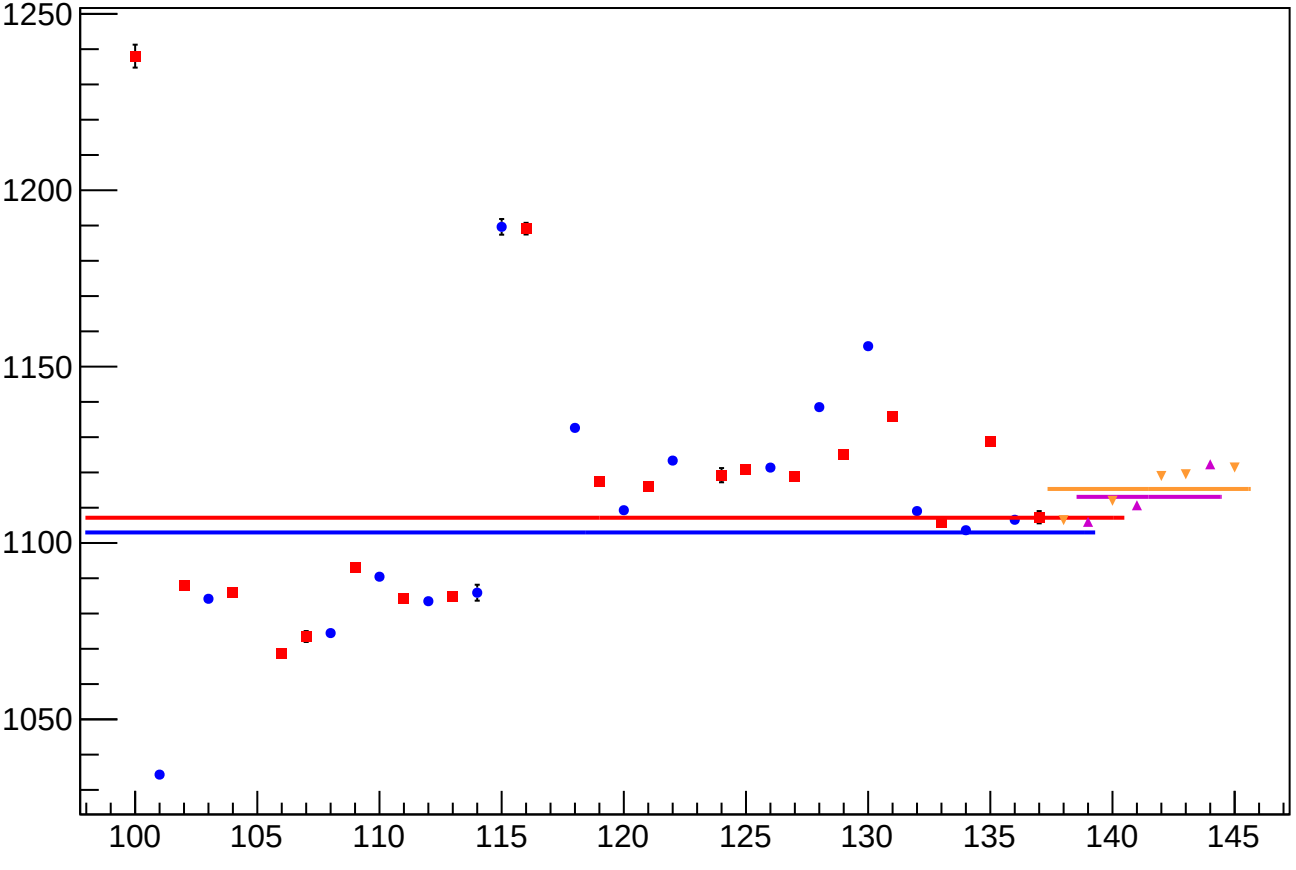
Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2690.303+/-351.844 $\chi^2$/NDF:10.3/18

Out: 1889.640+/-331.454 $\chi^2$/NDF:17.0/23

All: 2266.100+/-241.260 $\chi^2$/NDF: 30.1/42

# reg_asym_usr_rms vs Slug, Sign Corrected




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1115.318+/-0.410 $\chi^2$/NDF:195.0/4

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1113.080+/-0.485 $\chi^2$/NDF:199.4/2

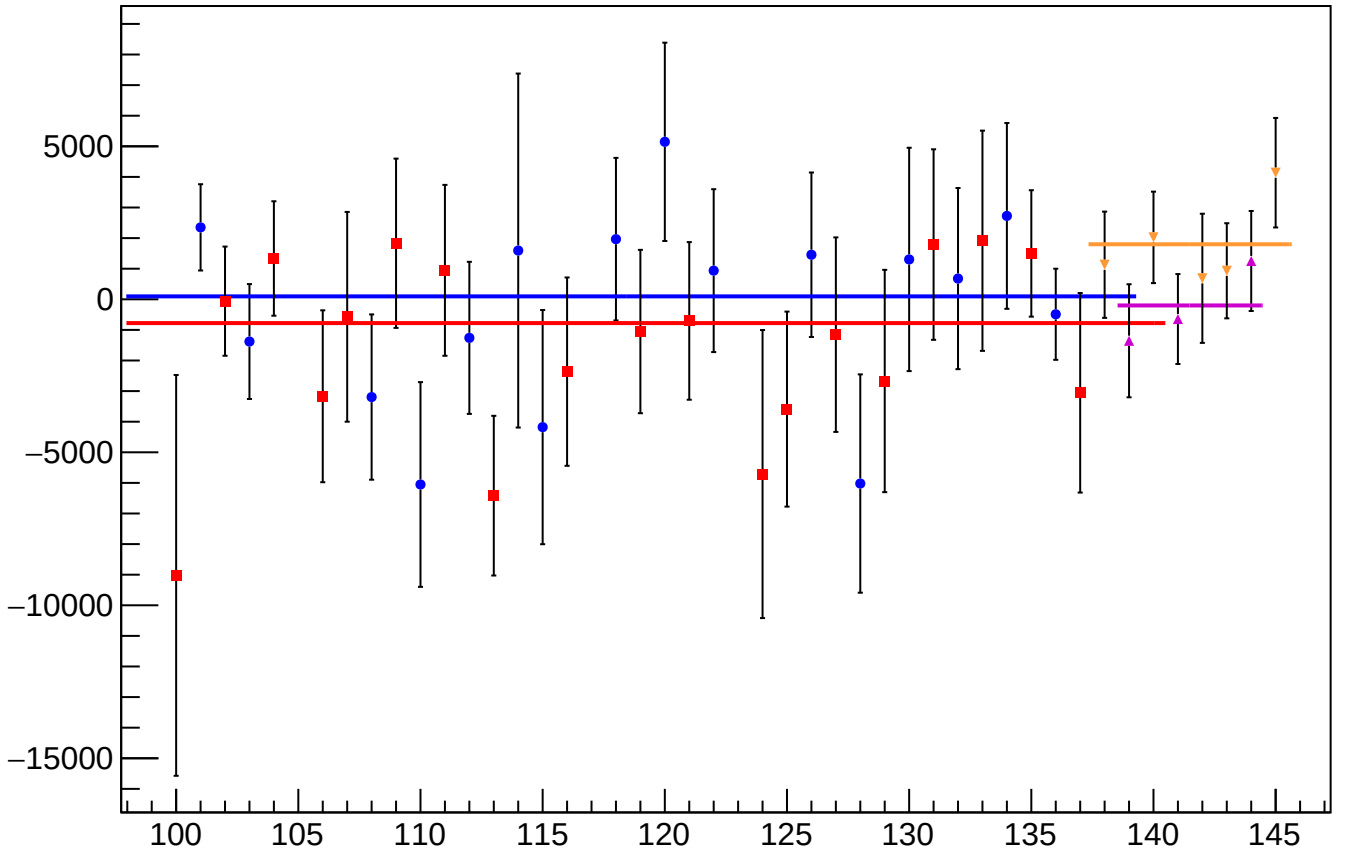
Left: 1114.385+/-0.313 $\chi^2$/NDF: 406.8/7

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

In: 1105.642+/-0.249 $\chi^2$/NDF:13742.1/18

Out: 1109.821+/-0.234 $\chi^2$/NDF:9144.7/23

All: 1107.856+/-0.171 $\chi^2$/NDF: 23036.3/42




Right In: 95.955+/-618.095 $\chi^2$/NDF: 16.9/15

Left Out: 1798.971+/-760.244 $\chi^2$/NDF:2.5/4

Right Out: -776.996+/-636.966 $\chi^2$/NDF: 15.1/18

Left In: -200.802+/-940.512 $\chi^2$/NDF:1.3/2

Left: 1008.691+/-591.241 $\chi^2$/NDF: 6.5/7

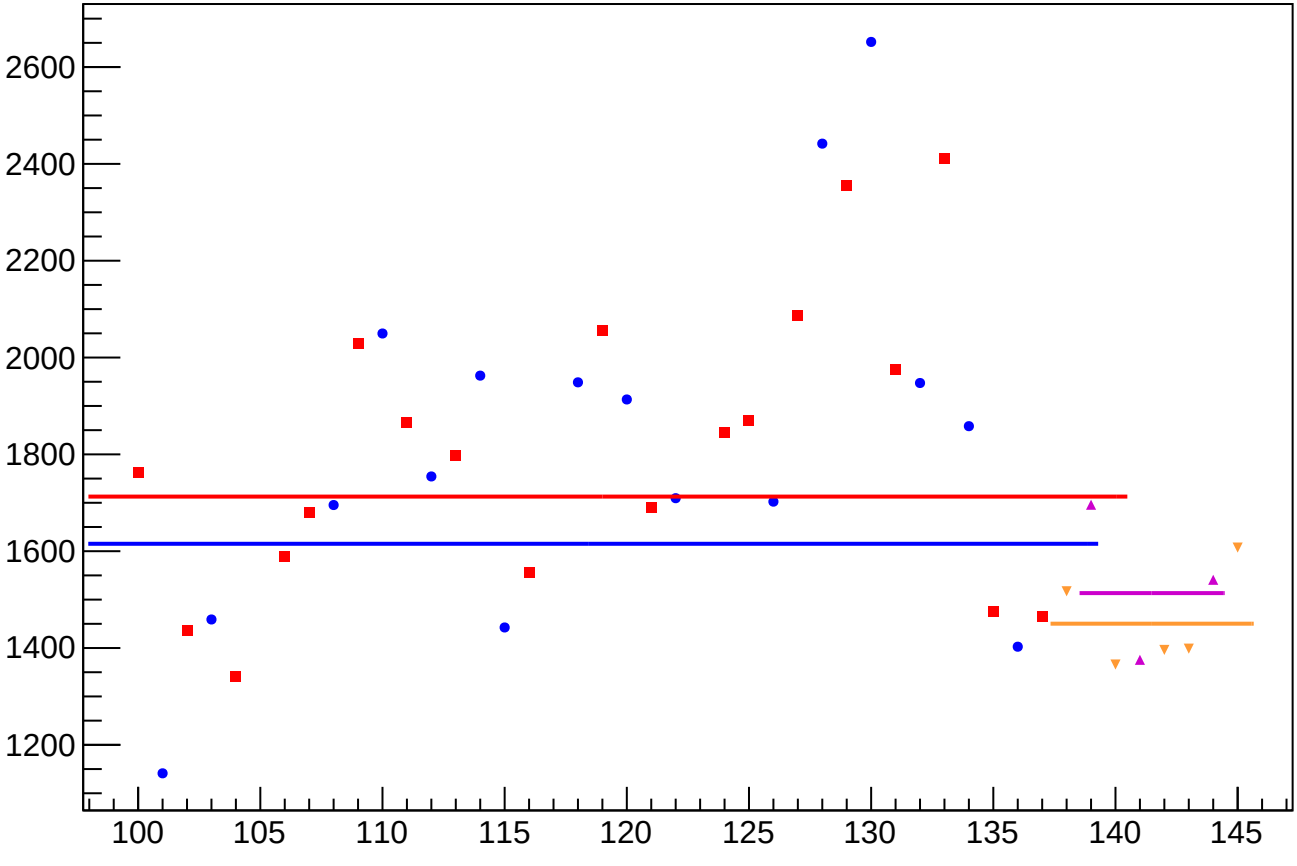
Right: -327.398+/-443.581 $\chi^2$/NDF: 33.0/34

In: 6.445+/-516.534 $\chi^2$/NDF:18.3/18

Out: 285.462+/-488.246 $\chi^2$/NDF:24.3/23

All: 153.802+/-354.821 $\chi^2$/NDF: 42.7/42

# asym_usr_reg_correction_rms vs Slug, Sign Corrected




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1450.274+/-0.538 $\chi^2$/NDF:28297.0/4

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1513.441+/-0.665 $\chi^2$/NDF:37684.2/2

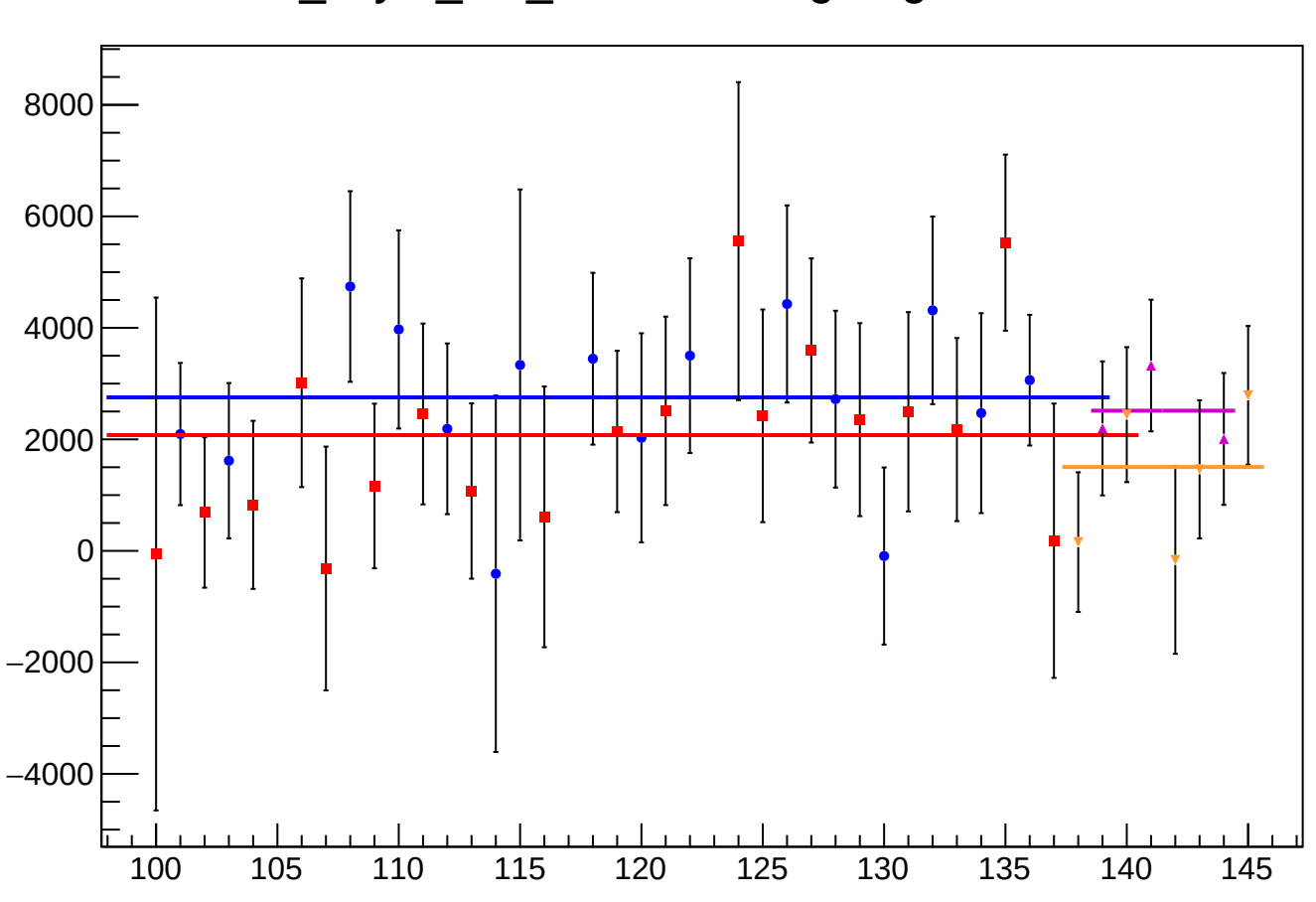
Left: 1475.237+/-0.418 $\chi^2$/NDF: 71437.5/7

Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1584.587+/-0.365 $\chi^2$/NDF:747702.1/18

Out: 1604.520+/-0.345 $\chi^2$/NDF:596484.1/23

All: 1595.114+/-0.251 $\chi^2$/NDF: 1345759.0/42




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 1503.745+/-580.326 $\chi^2$/NDF:3.8/4

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2514.251+/-686.097 $\chi^2$/NDF:0.7/2

Left: 1925.185+/-443.082 $\chi^2$/NDF: 5.8/7

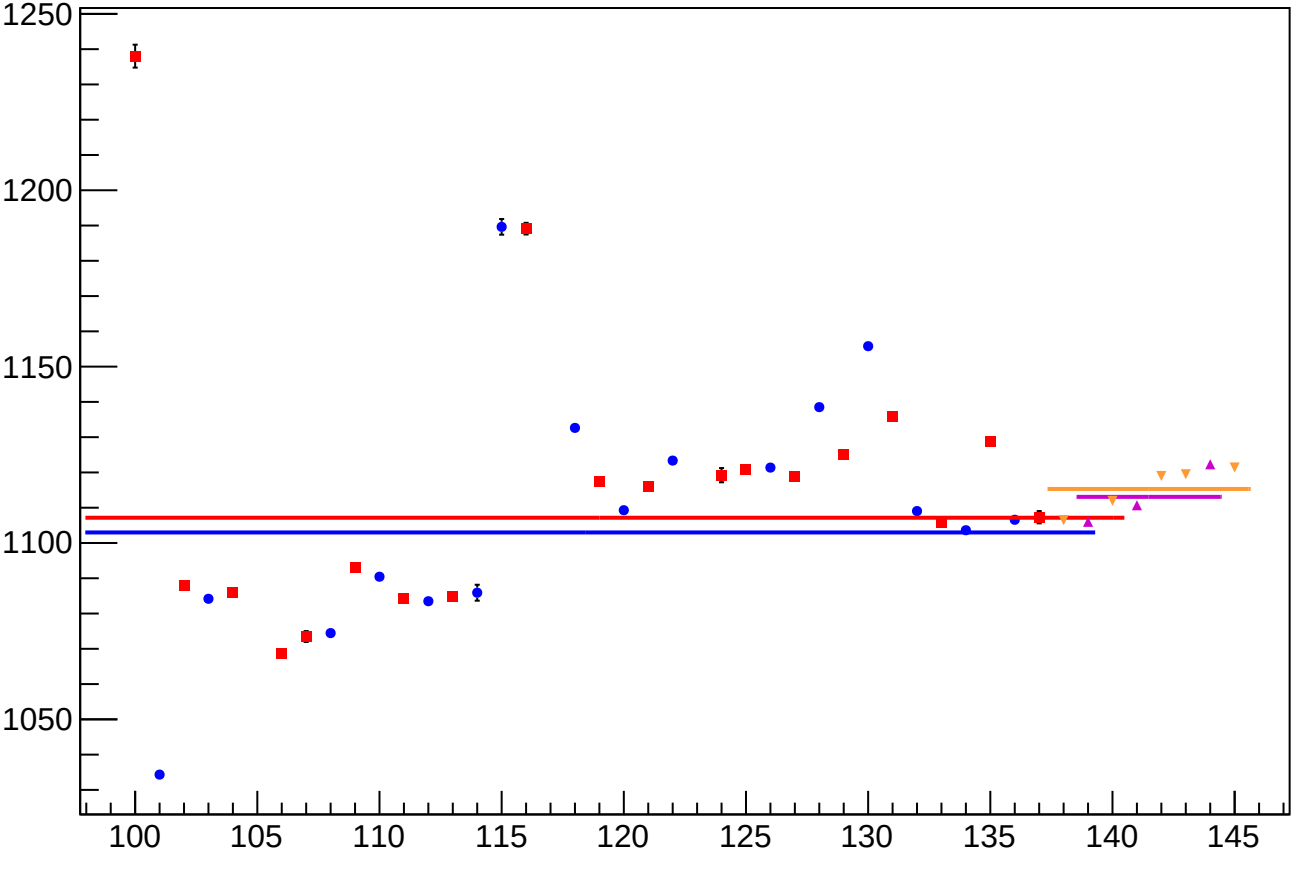
Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2690.303+/-351.844 $\chi^2$/NDF:10.3/18

Out: 1889.640+/-331.454 $\chi^2$/NDF:17.0/23

All: 2266.100+/-241.260 $\chi^2$/NDF: 30.1/42

# cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1115.318+/-0.410 $\chi^2$/NDF:195.0/4

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1113.080+/-0.485 $\chi^2$/NDF:199.4/2

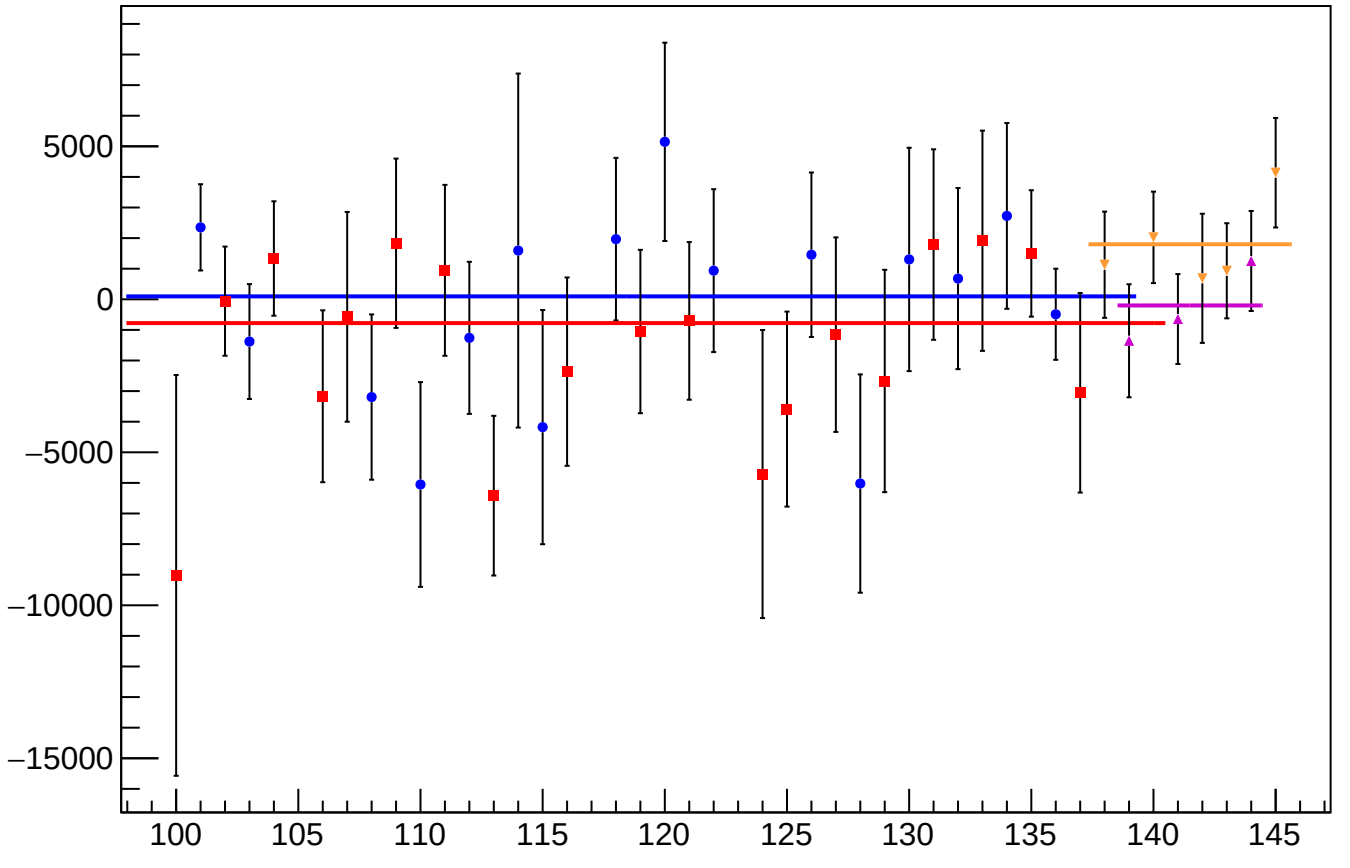
Left: 1114.385+/-0.313 $\chi^2$/NDF: 406.8/7

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

In: 1105.642+/-0.249 $\chi^2$/NDF:13742.1/18

Out: 1109.821+/-0.234 $\chi^2$/NDF:9144.7/23

All: 1107.856+/-0.171 $\chi^2$/NDF: 23036.3/42




Right In: 95.955+/-618.095 $\chi^2$/NDF: 16.9/15

Left Out: 1798.971+/-760.244 $\chi^2$/NDF:2.5/4

Right Out: -776.996+/-636.966 $\chi^2$/NDF: 15.1/18

Left In: -200.802+/-940.512 $\chi^2$/NDF:1.3/2

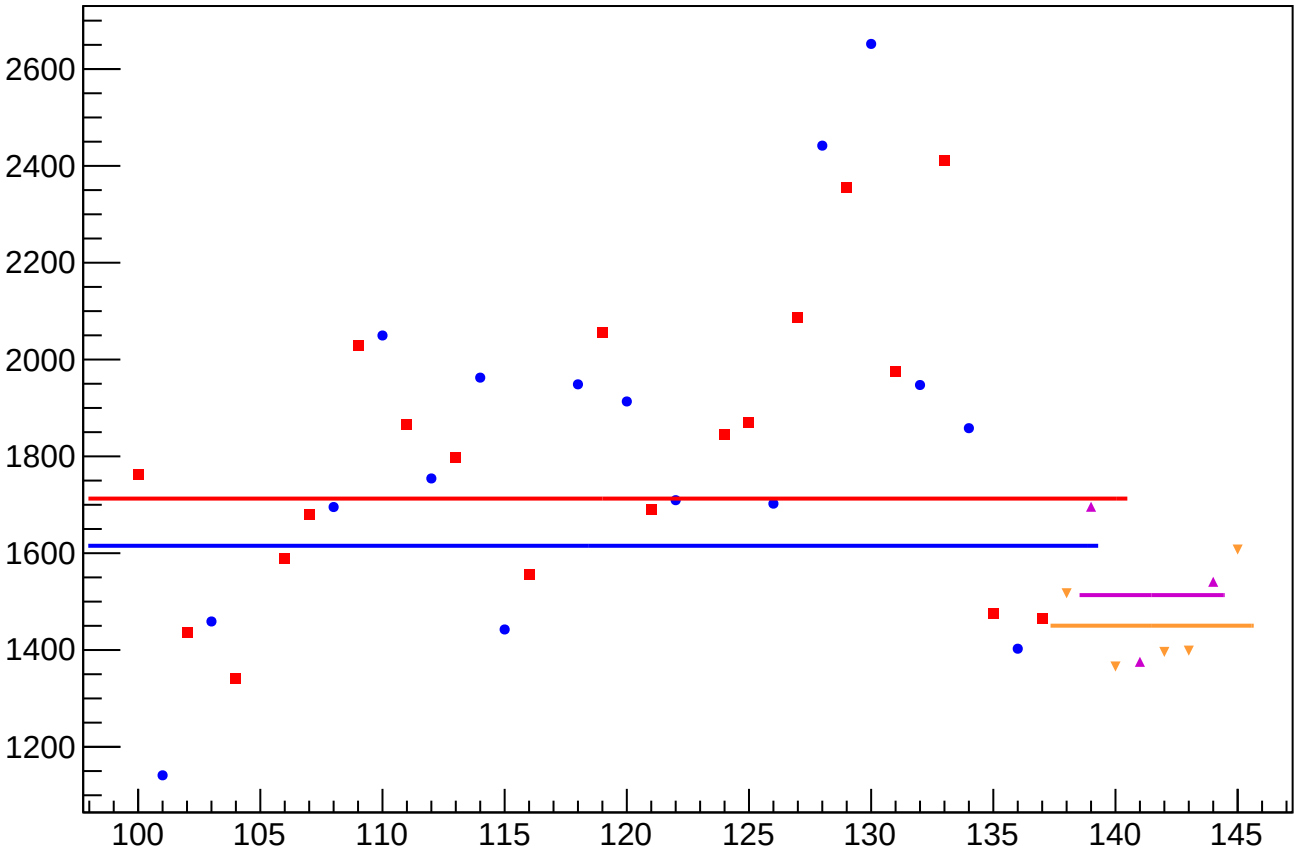
Left: 1008.691+/-591.241 $\chi^2$/NDF: 6.5/7

Right: -327.398+/-443.581 $\chi^2$/NDF: 33.0/34

In: 6.445+/-516.534 $\chi^2$/NDF:18.3/18

Out: 285.462+/-488.246 $\chi^2$/NDF:24.3/23

All: 153.802+/-354.821 $\chi^2$/NDF: 42.7/42




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1450.274+/-0.538 $\chi^2$/NDF:28297.0/4

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1513.441+/-0.665 $\chi^2$/NDF:37684.2/2

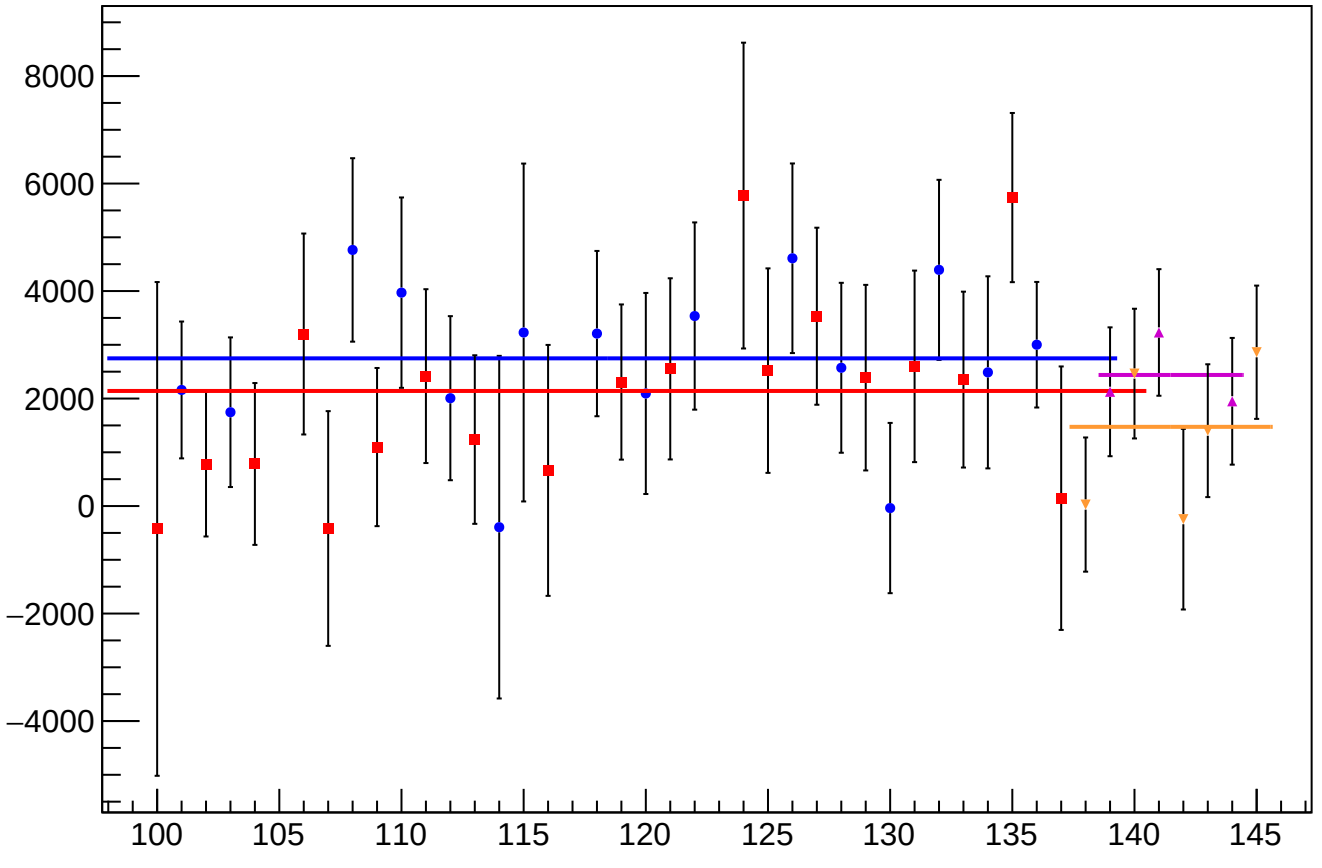
Left: 1475.237+/-0.418 $\chi^2$/NDF: 71437.5/7

Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1584.587+/-0.365 $\chi^2$/NDF:747702.1/18

Out: 1604.520+/-0.345 $\chi^2$/NDF:596484.1/23

All: 1595.114+/-0.251 $\chi^2$/NDF: 1345759.0/42




Right In: 2747.939+/-408.759 $\chi^2$/NDF: 9.5/15

Left Out: 1473.633+/-578.504 $\chi^2$/NDF:4.3/4

Right Out: 2141.169+/-402.789 $\chi^2$/NDF: 13.6/18

Left In: 2438.926+/-684.136 $\chi^2$/NDF:0.7/2

Left: 1876.085+/-441.743 $\chi^2$/NDF: 6.2/7

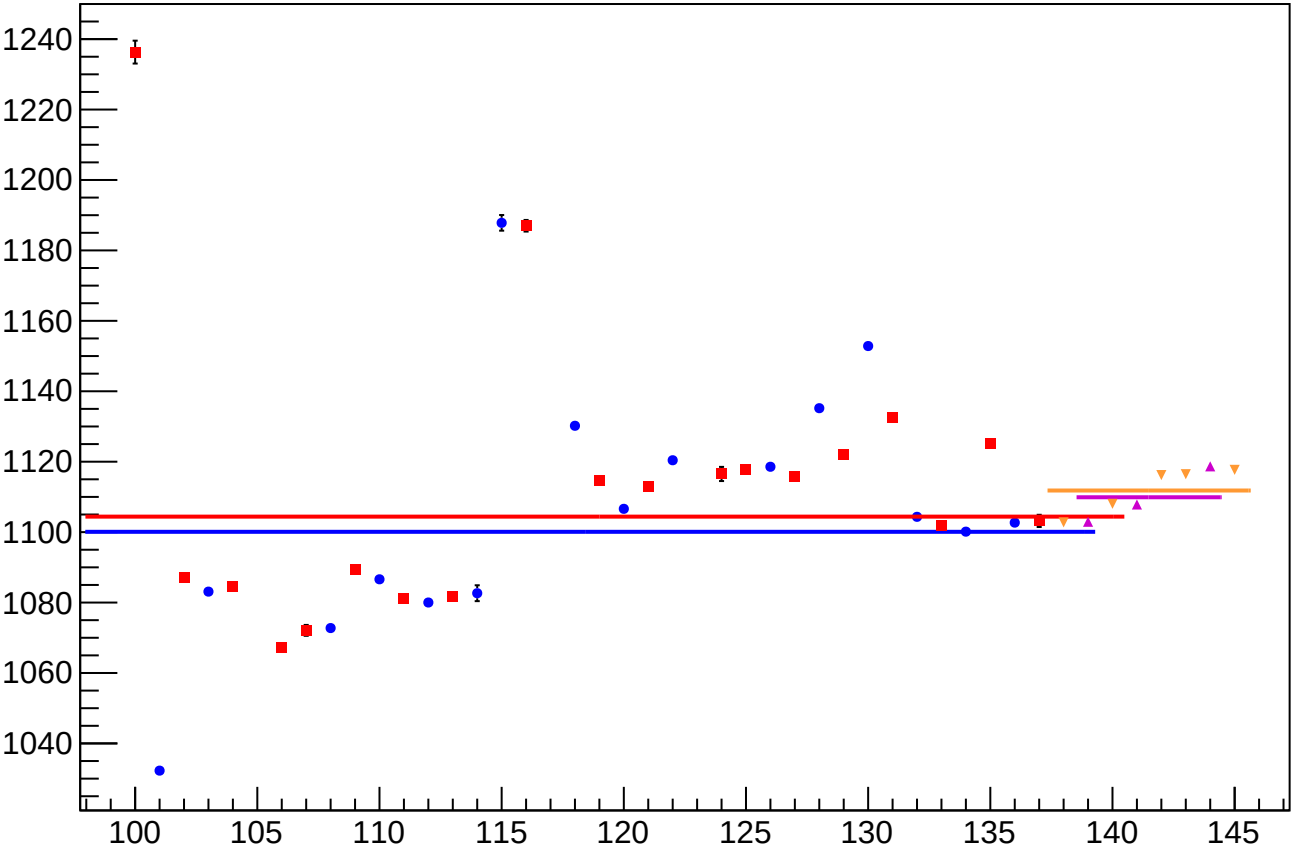
Right: 2440.090+/-286.902 $\chi^2$/NDF: 24.2/34

In: 2666.646+/-350.897 $\chi^2$/NDF:10.3/18

Out: 1923.220+/-330.557 $\chi^2$/NDF:18.8/23

All: 2272.763+/-240.609 $\chi^2$/NDF: 31.5/42

# overload_cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1100.090+/-0.289 $\chi^2$/NDF: 13077.1/15

Left Out: 1111.818+/-0.409 $\chi^2$/NDF:210.9/4

Right Out: 1104.403+/-0.285 $\chi^2$/NDF: 8543.5/18

Left In: 1109.901+/-0.484 $\chi^2$/NDF:184.2/2

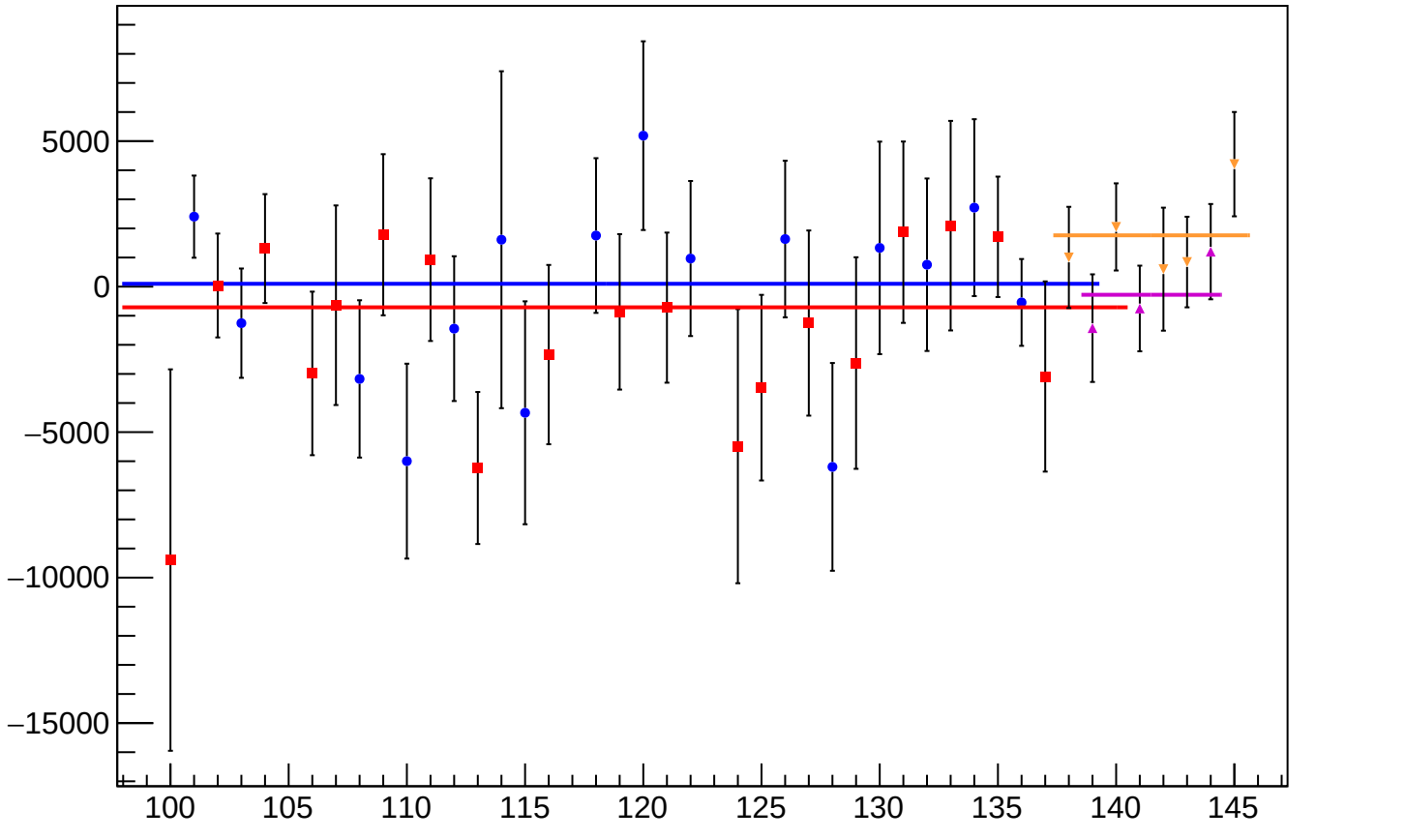
Left: 1111.019+/-0.312 $\chi^2$/NDF: 404.4/7

Right: 1102.278+/-0.203 $\chi^2$/NDF: 21733.6/34

In: 1102.671+/-0.248 $\chi^2$/NDF:13564.5/18

Out: 1106.824+/-0.234 $\chi^2$/NDF:8975.8/23

All: 1104.871+/-0.170 $\chi^2$/NDF: 22688.7/42




Right In: 97.435+/-618.876 $\chi^2$/NDF: 17.2/15

Left Out: 1762.935+/-761.652 $\chi^2$/NDF:2.7/4

Right Out: -711.287+/-637.587 $\chi^2$/NDF: 14.9/18

Left In: -280.198+/-941.979 $\chi^2$/NDF:1.3/2

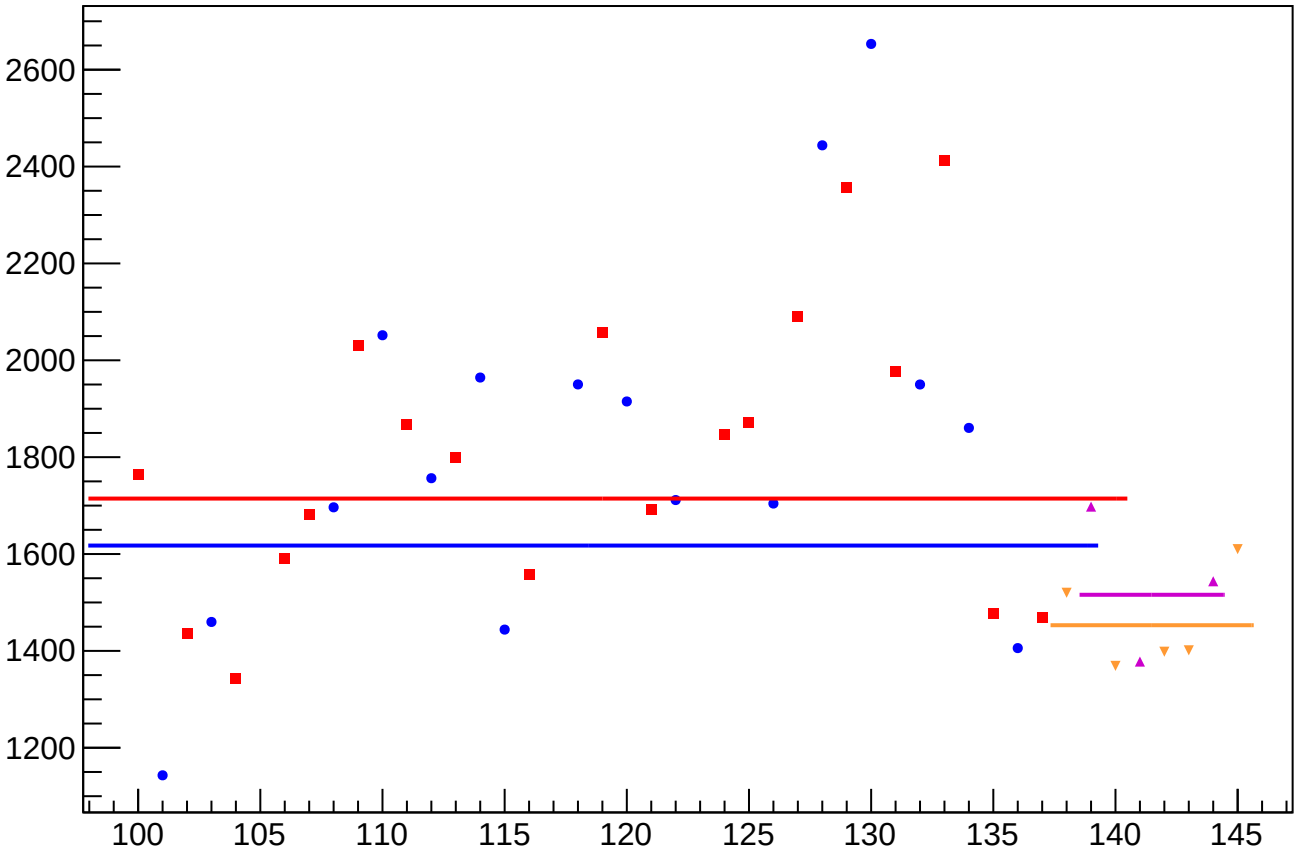
Left: 955.235+/-592.267 $\chi^2$/NDF: 6.9/7

Right: -294.885+/-444.079 $\chi^2$/NDF: 33.0/34

In: -16.422+/-517.233 $\chi^2$/NDF:18.7/18

Out: 308.156+/-488.898 $\chi^2$/NDF:23.9/23

All: 155.001+/-355.298 $\chi^2$/NDF: 42.7/42




Right In: 1617.491+/-0.438 $\chi^2$/NDF: 691725.3/15

Left Out: 1453.008+/-0.539 $\chi^2$/NDF:28161.7/4

Right Out: 1714.508+/-0.451 $\chi^2$/NDF: 427709.9/18

Left In: 1515.856+/-0.666 $\chi^2$/NDF:37517.4/2

Left: 1477.854+/-0.419 $\chi^2$/NDF: 71062.5/7

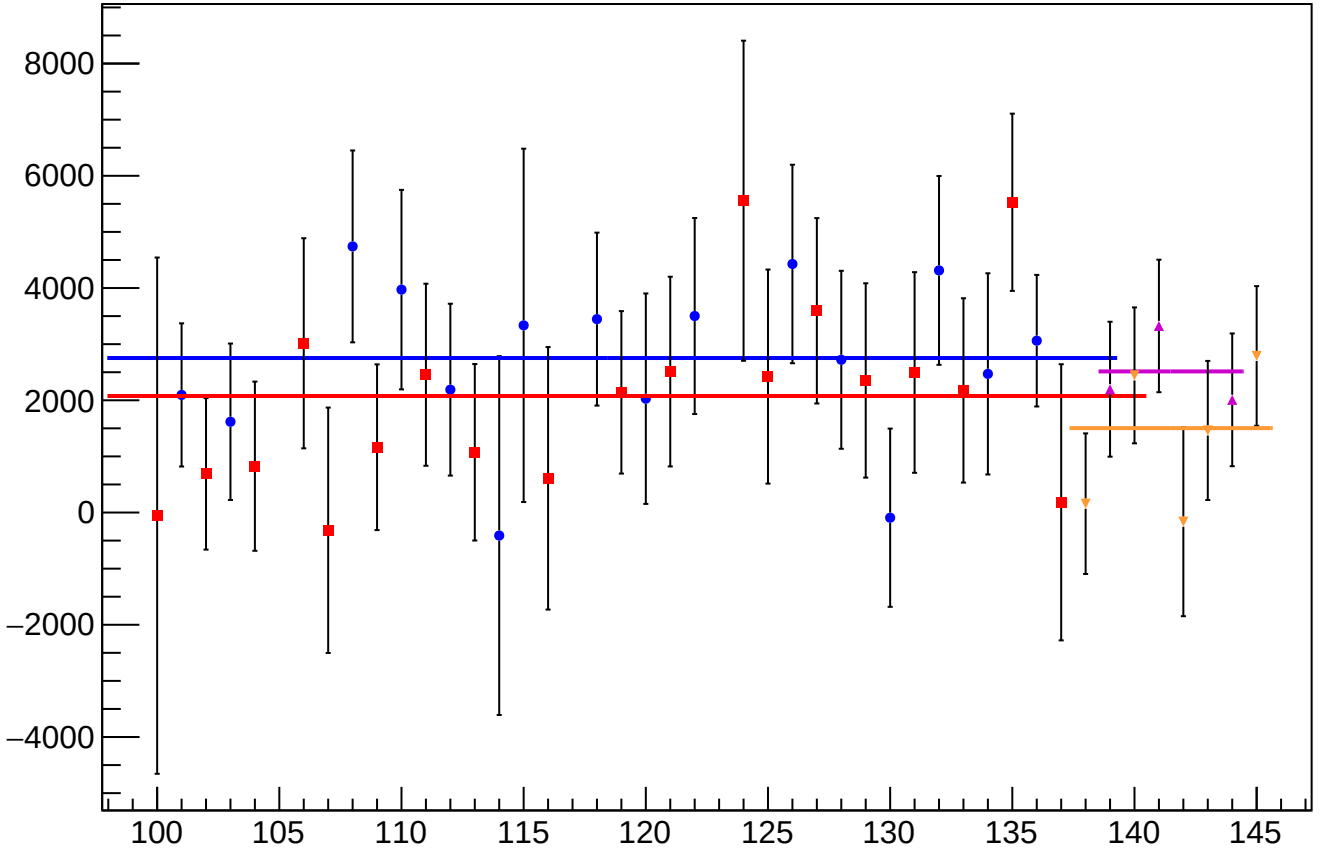
Right: 1664.555+/-0.314 $\chi^2$/NDF: 1143278.0/34

In: 1586.848+/-0.366 $\chi^2$/NDF:745505.6/18

Out: 1606.763+/-0.346 $\chi^2$/NDF:594488.7/23

All: 1597.366+/-0.251 $\chi^2$/NDF: 1341560.2/42

# eigen_cor_asym_usr_mean vs Slug, Sign Corrected




Right In: 2753.123+/-409.837 $\chi^2$/NDF: 9.5/15

Left Out: 1503.745+/-580.326 $\chi^2$/NDF:3.8/4

Right Out: 2076.471+/-403.796 $\chi^2$/NDF: 12.5/18

Left In: 2514.251+/-686.097 $\chi^2$/NDF:0.7/2

Left: 1925.185+/-443.082 $\chi^2$/NDF: 5.8/7

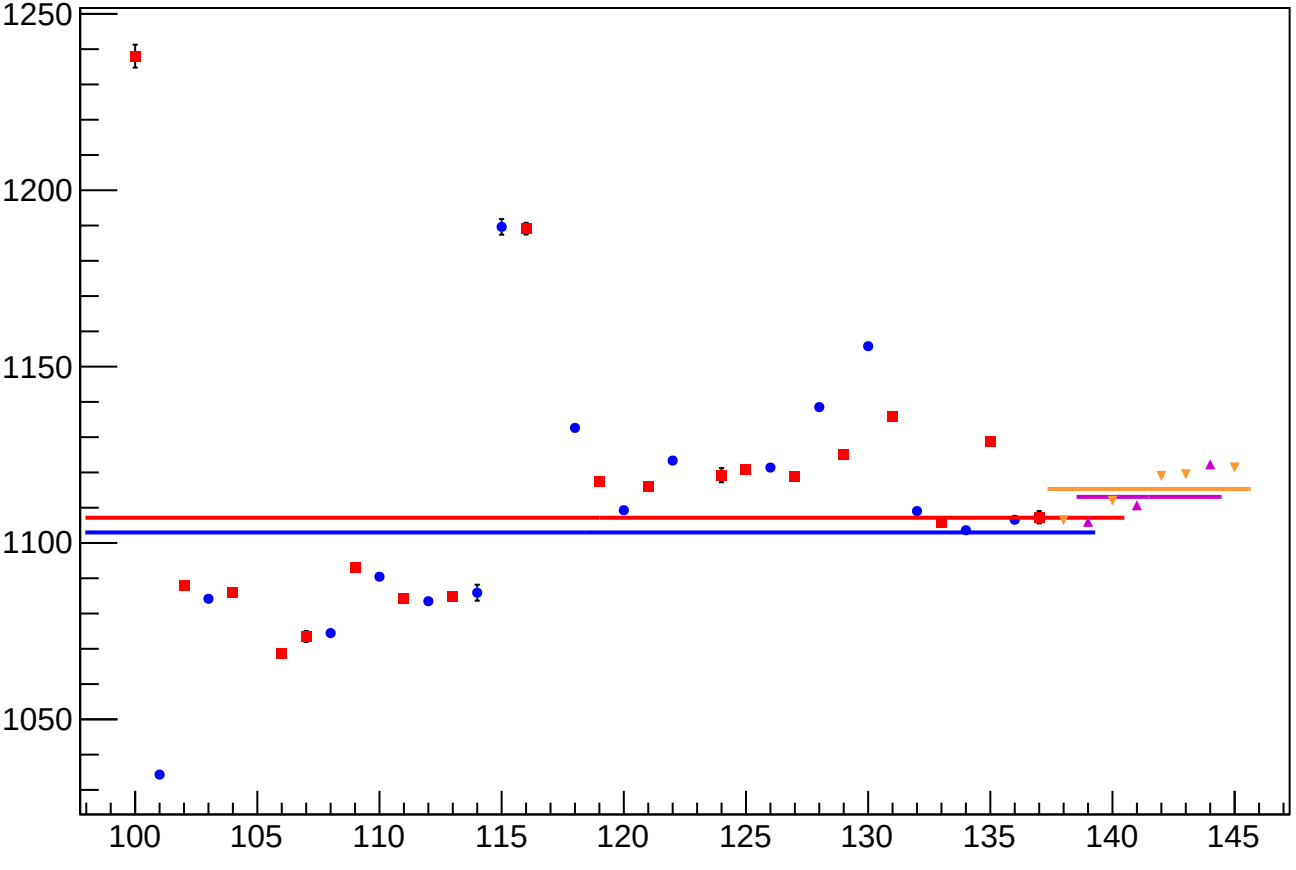
Right: 2409.773+/-287.639 $\chi^2$/NDF: 23.4/34

In: 2690.303+/-351.844 $\chi^2$/NDF:10.3/18

Out: 1889.640+/-331.454 $\chi^2$/NDF:17.0/23

All: 2266.100+/-241.260 $\chi^2$/NDF: 30.1/42

# eigen_cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1102.988+/-0.290 $\chi^2$/NDF: 13223.8/15

Left Out: 1115.318+/-0.410 $\chi^2$/NDF:195.0/4

Right Out: 1107.159+/-0.286 $\chi^2$/NDF: 8683.4/18

Left In: 1113.080+/-0.485 $\chi^2$/NDF:199.4/2

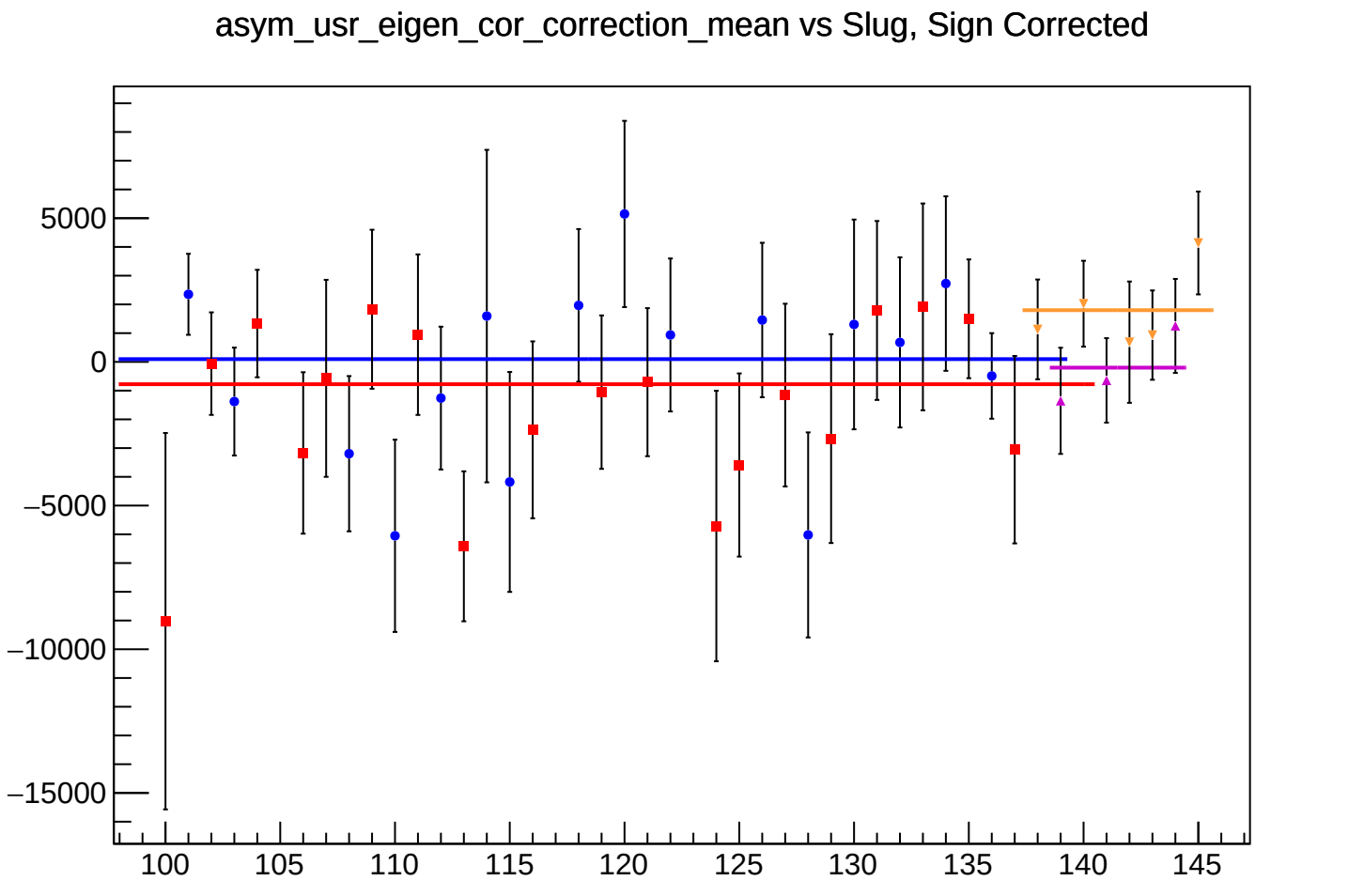
Left: 1114.385+/-0.313 $\chi^2$/NDF: 406.8/7

Right: 1105.104+/-0.203 $\chi^2$/NDF: 22012.3/34

In: 1105.642+/-0.249 $\chi^2$/NDF:13742.1/18

Out: 1109.821+/-0.234 $\chi^2$/NDF:9144.7/23

All: 1107.856+/-0.171 $\chi^2$/NDF: 23036.3/42




Right In: 95.955+/-618.095 $\chi^2$/NDF: 16.9/15

Left Out: 1798.971+/-760.244 $\chi^2$/NDF:2.5/4

Right Out: -776.996+/-636.966 $\chi^2$/NDF: 15.1/18

Left In: -200.802+/-940.512 $\chi^2$/NDF:1.3/2

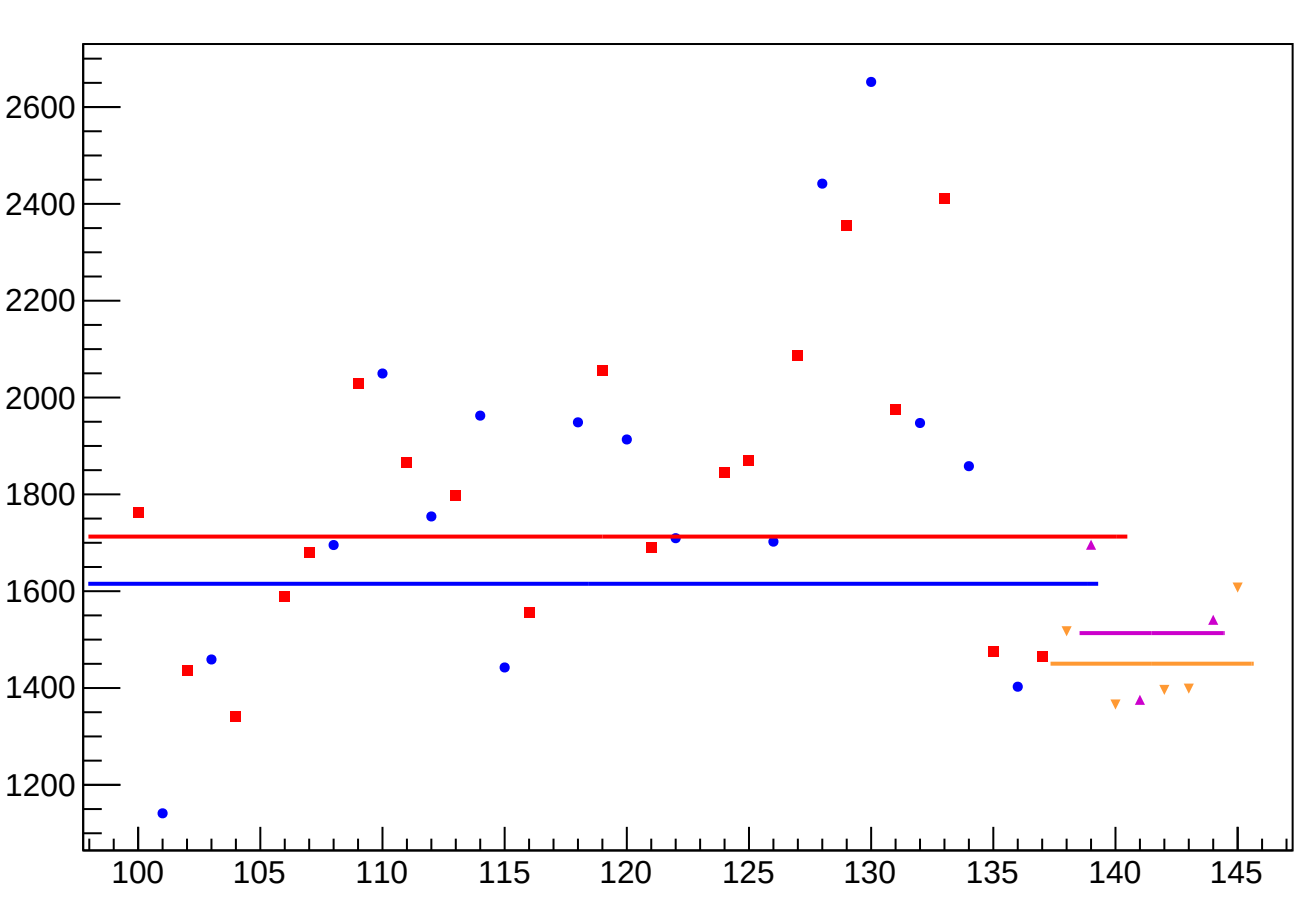
Left: 1008.691+/-591.241 $\chi^2$/NDF: 6.5/7

Right: -327.398+/-443.581 $\chi^2$/NDF: 33.0/34

In: 6.445+/-516.534 $\chi^2$/NDF:18.3/18

Out: 285.462+/-488.246 $\chi^2$/NDF:24.3/23

All: 153.802+/-354.821 $\chi^2$/NDF: 42.7/42




Right In: 1615.316+/-0.437 $\chi^2$/NDF: 693630.0/15

Left Out: 1450.274+/-0.538 $\chi^2$/NDF:28297.0/4

Right Out: 1712.798+/-0.450 $\chi^2$/NDF: 428065.0/18

Left In: 1513.441+/-0.665 $\chi^2$/NDF:37684.2/2

Left: 1475.237+/-0.418 $\chi^2$/NDF: 71437.5/7

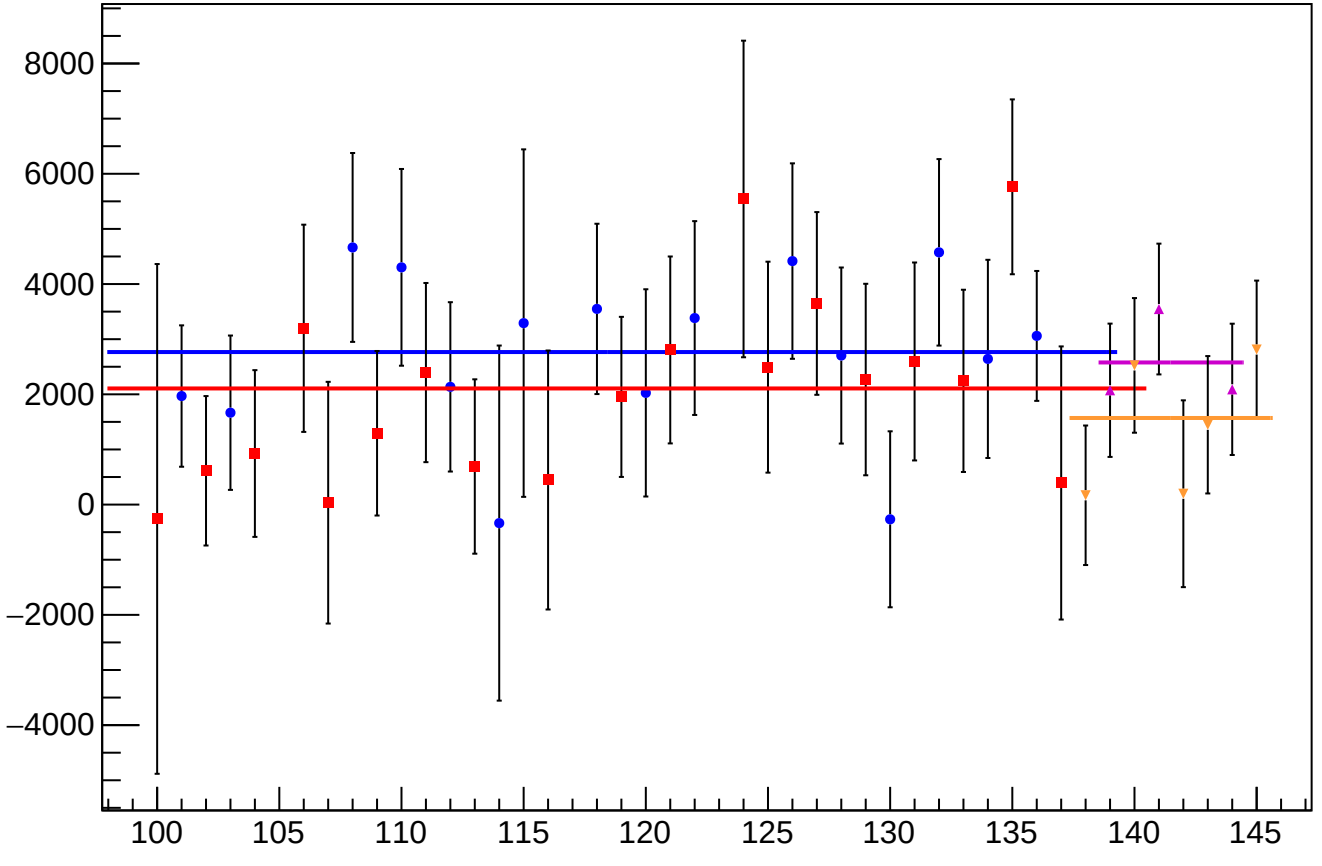
Right: 1662.591+/-0.314 $\chi^2$/NDF: 1145820.9/34

In: 1584.587+/-0.365 $\chi^2$/NDF:747702.1/18

Out: 1604.520+/-0.345 $\chi^2$/NDF:596484.1/23

All: 1595.114+/-0.251 $\chi^2$/NDF: 1345759.0/42

# dit_asym_usr_mean vs Slug, Sign Corrected




Right In: 2766.657+/-411.563 $\chi^2$/NDF: 10.3/15

Left Out: 1570.829+/-584.425 $\chi^2$/NDF:3.5/4

Right Out: 2106.358+/-405.586 $\chi^2$/NDF: 13.4/18

Left In: 2577.742+/-689.915 $\chi^2$/NDF:1.0/2

Left: 1991.500+/-445.934 $\chi^2$/NDF: 5.7/7

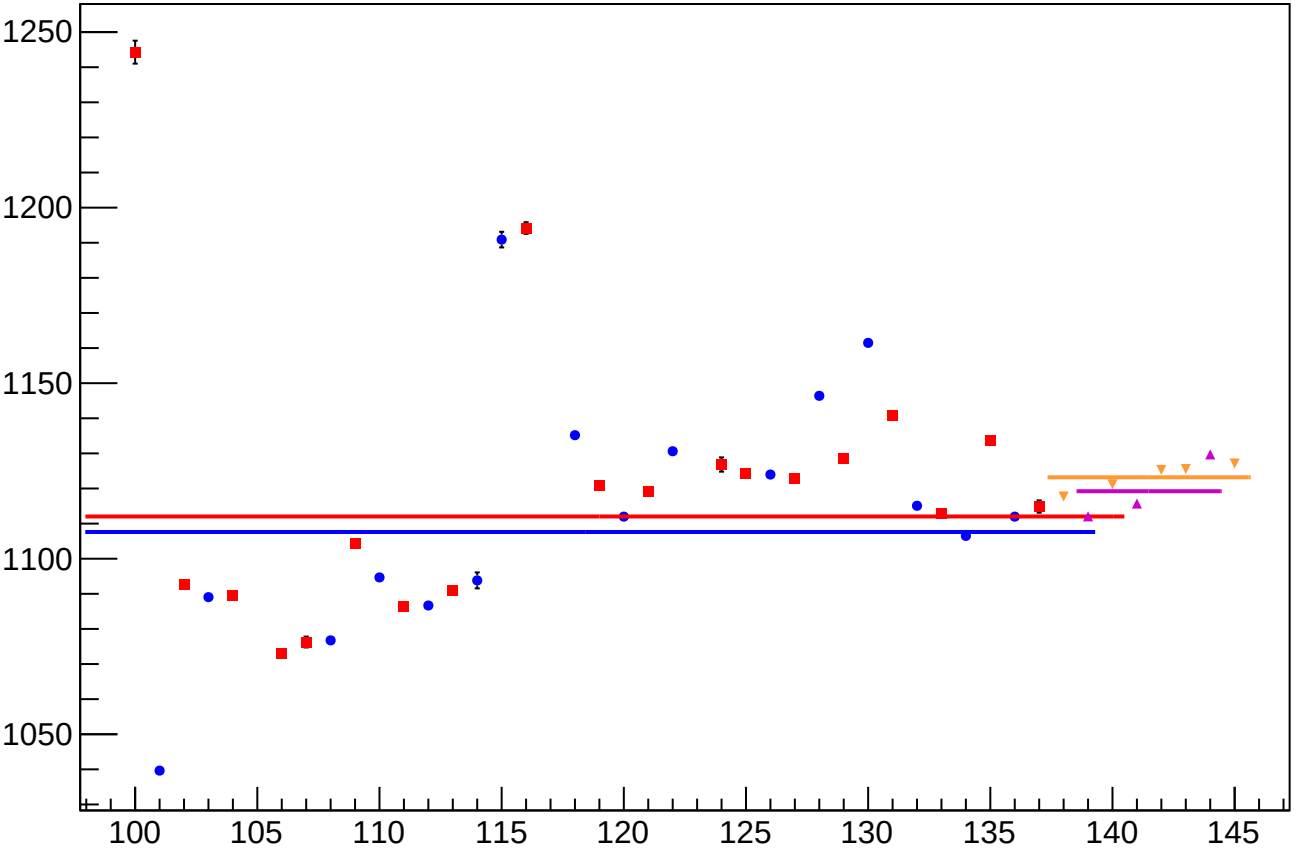
Right: 2431.678+/-288.883 $\chi^2$/NDF: 25.0/34

In: 2717.074+/-353.450 $\chi^2$/NDF:11.4/18

Out: 1932.276+/-333.207 $\chi^2$/NDF:17.4/23

All: 2301.558+/-242.454 $\chi^2$/NDF: 31.4/42

# dit_asym_usr_rms vs Slug, Sign Corrected




Right In: 1107.613+/-0.291 $\chi^2$/NDF: 13220.8/15

Left Out: 1123.187+/-0.413 $\chi^2$/NDF:72.8/4

Right Out: 1112.029+/-0.287 $\chi^2$/NDF: 8653.5/18

Left In: 1119.230+/-0.488 $\chi^2$/NDF:243.0/2

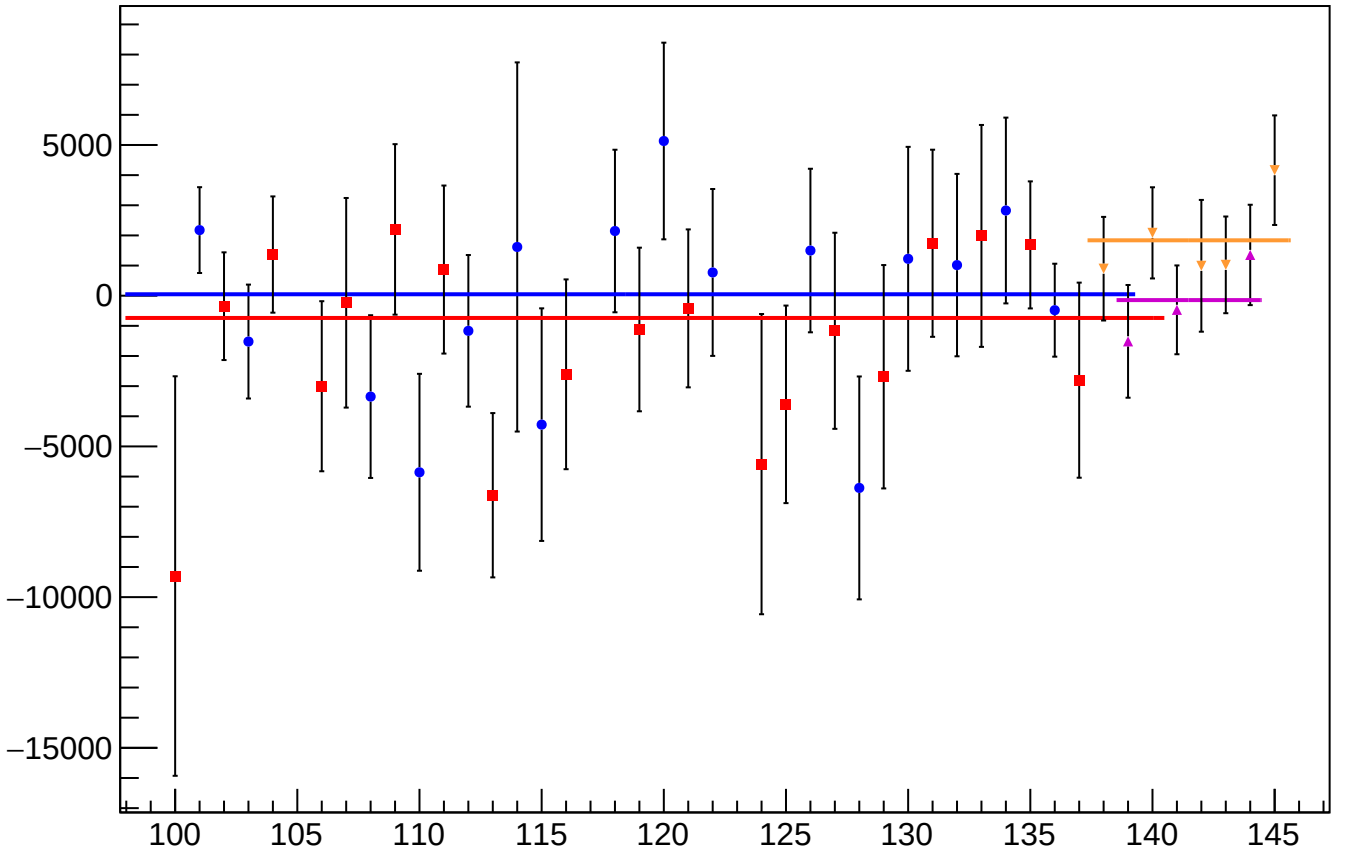
Left: 1121.534+/-0.315 $\chi^2$/NDF: 354.1/7

Right: 1109.854+/-0.204 $\chi^2$/NDF: 21991.1/34

In: 1110.662+/-0.250 $\chi^2$/NDF:13882.0/18

Out: 1115.656+/-0.236 $\chi^2$/NDF:9218.3/23

All: 1113.306+/-0.171 $\chi^2$/NDF: 23311.7/42




Right In: 47.817+/-628.060 $\chi^2$/NDF: 16.9/15

Left Out: 1837.631+/-772.365 $\chi^2$/NDF:2.4/4

Right Out: -738.185+/-647.795 $\chi^2$/NDF: 14.9/18

Left In: -145.550+/-950.253 $\chi^2$/NDF:1.4/2

Left: 1048.675+/-599.355 $\chi^2$/NDF: 6.4/7

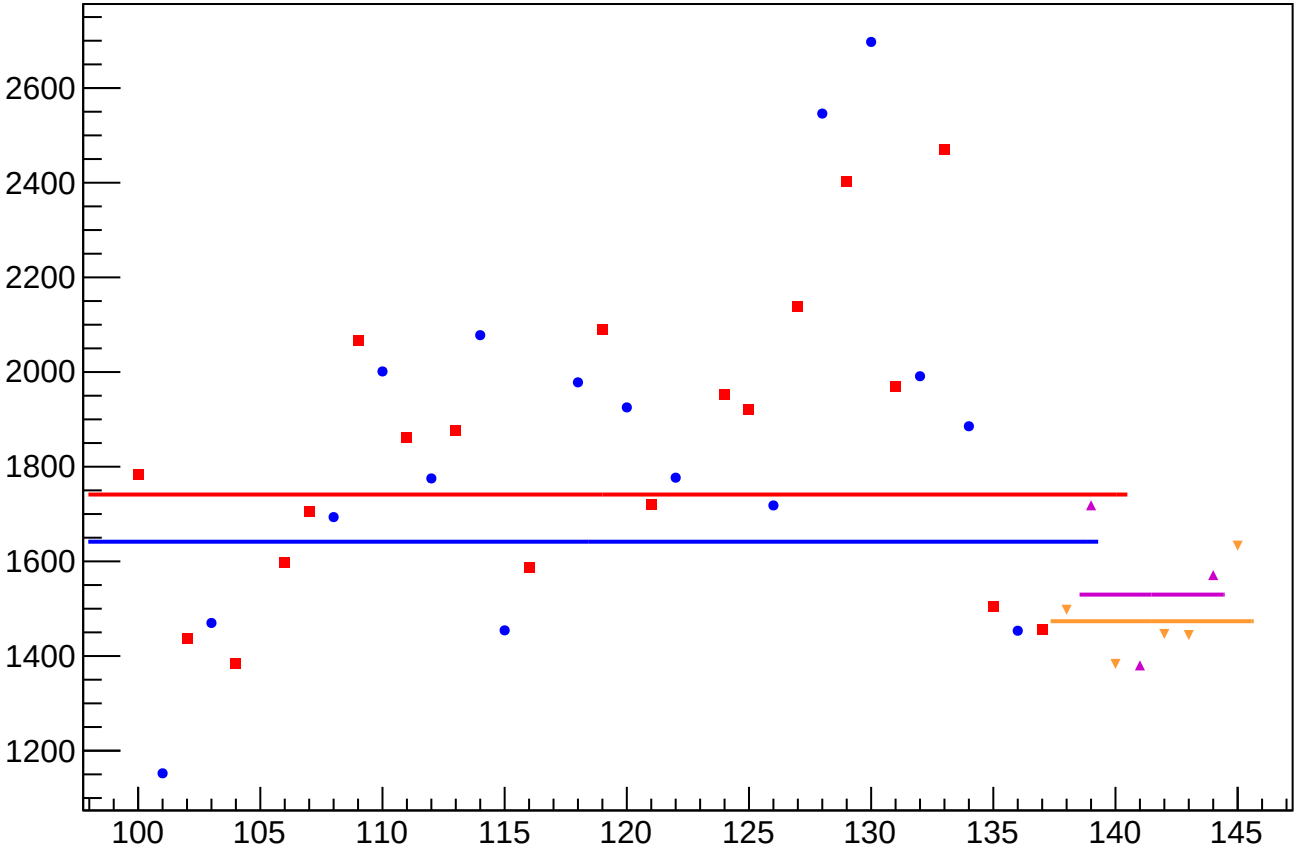
Right: -333.029+/-450.921 $\chi^2$/NDF: 32.6/34

In: -10.972+/-523.959 $\chi^2$/NDF:18.3/18

Out: 325.510+/-496.334 $\chi^2$/NDF:23.8/23

All: 166.373+/-360.331 $\chi^2$/NDF: 42.4/42

# asym_usr_dit_correction_rms vs Slug, Sign Corrected




Right In: 1641.538+/-0.444 $\chi^2$/NDF: 701311.4/15

Left Out: 1473.564+/-0.546 $\chi^2$/NDF:23911.1/4

Right Out: 1741.200+/-0.458 $\chi^2$/NDF: 438336.6/18

Left In: 1529.770+/-0.672 $\chi^2$/NDF:42207.5/2

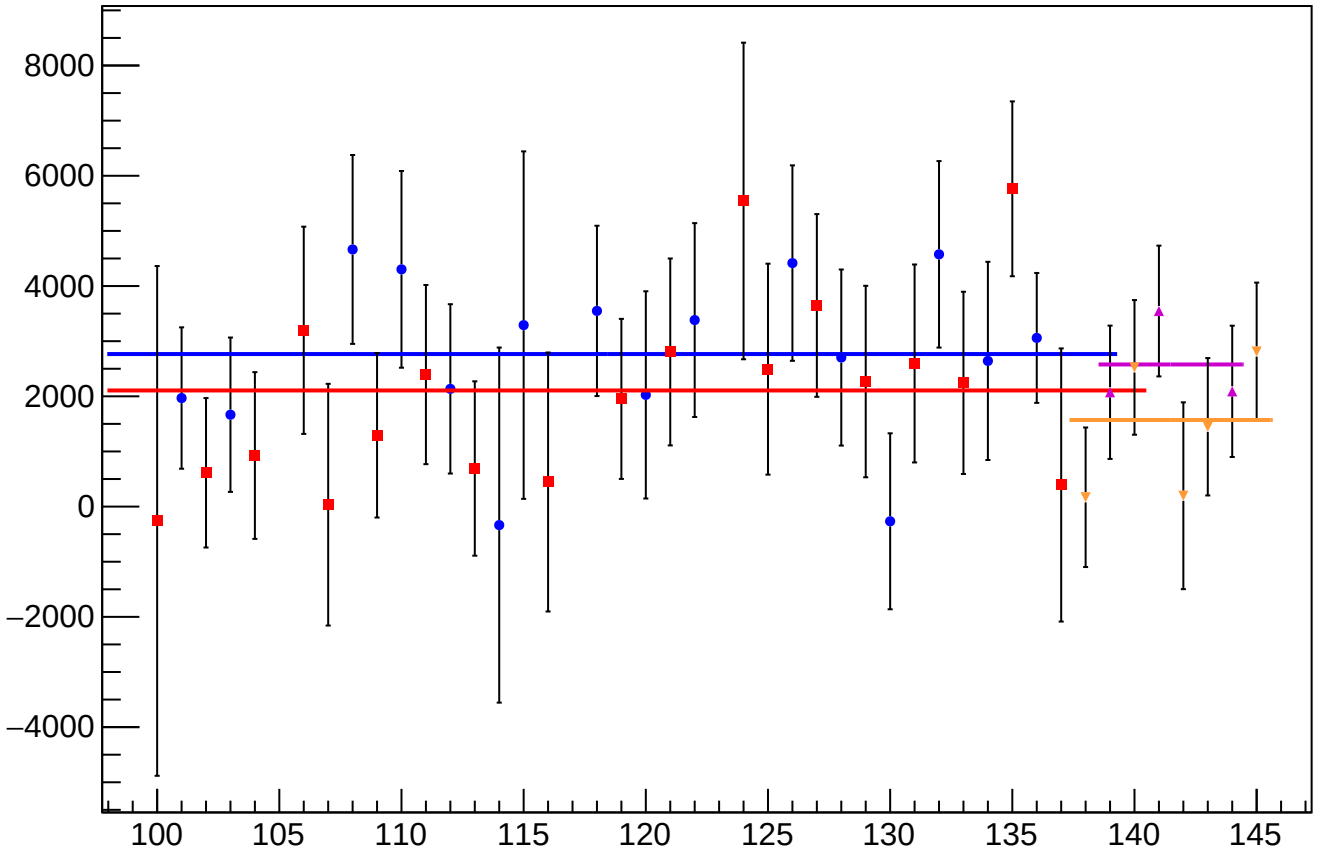
Left: 1495.924+/-0.424 $\chi^2$/NDF: 70332.1/7

Right: 1689.828+/-0.319 $\chi^2$/NDF: 1164049.3/34

In: 1607.557+/-0.370 $\chi^2$/NDF:762775.3/18

Out: 1630.679+/-0.351 $\chi^2$/NDF:603223.7/23

All: 1619.743+/-0.255 $\chi^2$/NDF: 1368051.8/42




Right In: 2766.656+/-411.563 $\chi^2$/NDF: 10.3/15

Left Out: 1570.832+/-584.425 $\chi^2$/NDF:3.5/4

Right Out: 2106.360+/-405.586 $\chi^2$/NDF: 13.4/18

Left In: 2577.739+/-689.915 $\chi^2$/NDF:1.0/2

Left: 1991.501+/-445.934 $\chi^2$/NDF: 5.7/7

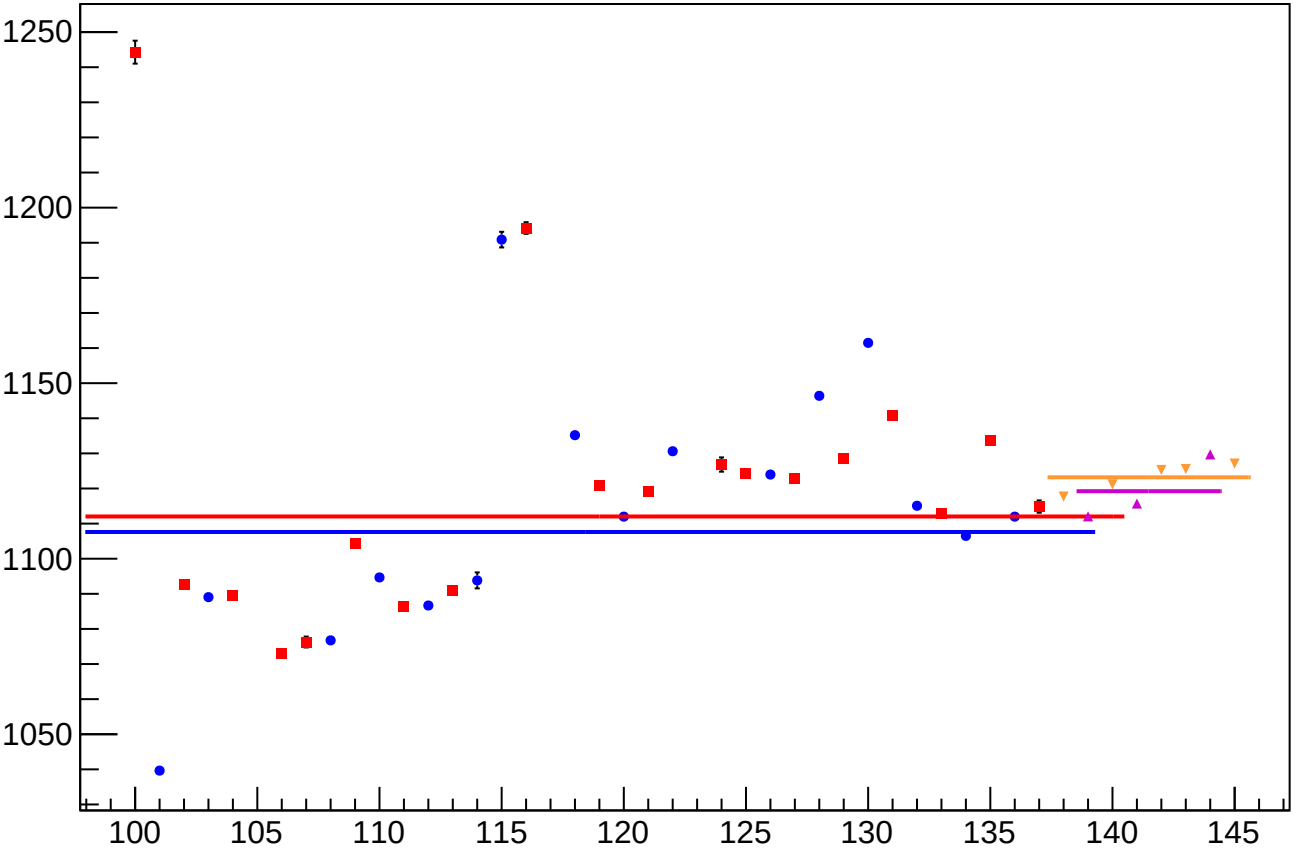
Right: 2431.678+/-288.882 $\chi^2$/NDF: 25.0/34

In: 2717.072+/-353.450 $\chi^2$/NDF:11.4/18

Out: 1932.279+/-333.207 $\chi^2$/NDF:17.4/23

All: 2301.559+/-242.454 $\chi^2$/NDF: 31.4/42

# eigen_dit_asym_usr_rms vs Slug, Sign Corrected




Right In: 1107.613+/-0.291 $\chi^2$/NDF: 13220.7/15

Left Out: 1123.187+/-0.413 $\chi^2$/NDF:72.8/4

Right Out: 1112.029+/-0.287 $\chi^2$/NDF: 8653.5/18

Left In: 1119.230+/-0.488 $\chi^2$/NDF:243.0/2

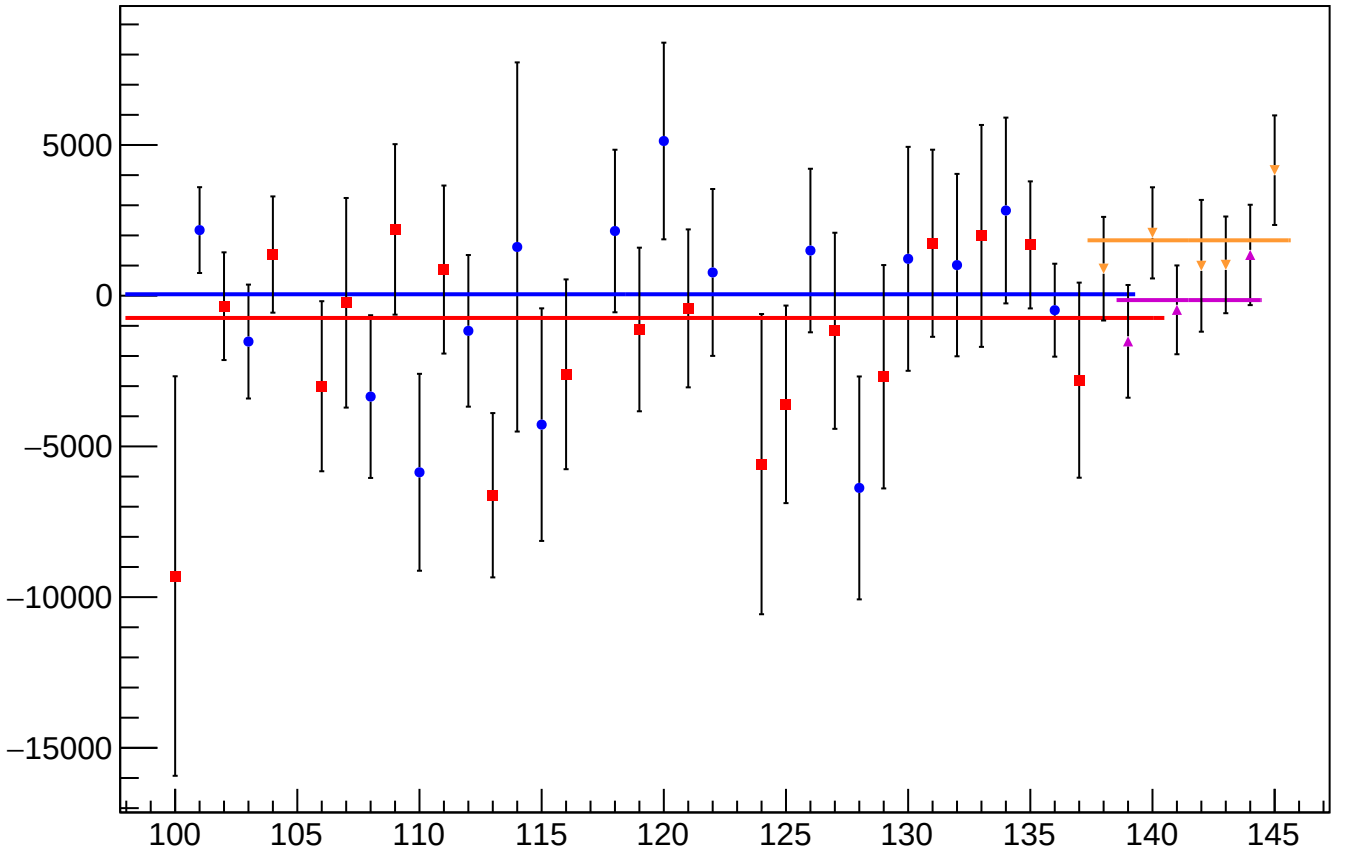
Left: 1121.534+/-0.315 $\chi^2$/NDF: 354.1/7

Right: 1109.853+/-0.204 $\chi^2$/NDF: 21991.0/34

In: 1110.662+/-0.250 $\chi^2$/NDF:13881.9/18

Out: 1115.656+/-0.236 $\chi^2$/NDF:9218.3/23

All: 1113.306+/-0.171 $\chi^2$/NDF: 23311.6/42




Right In: 47.813+/-628.059 $\chi^2$/NDF: 16.9/15

Left Out: 1837.634+/-772.367 $\chi^2$/NDF:2.4/4

Right Out: -738.188+/-647.795 $\chi^2$/NDF: 14.9/18

Left In: -145.552+/-950.256 $\chi^2$/NDF:1.4/2

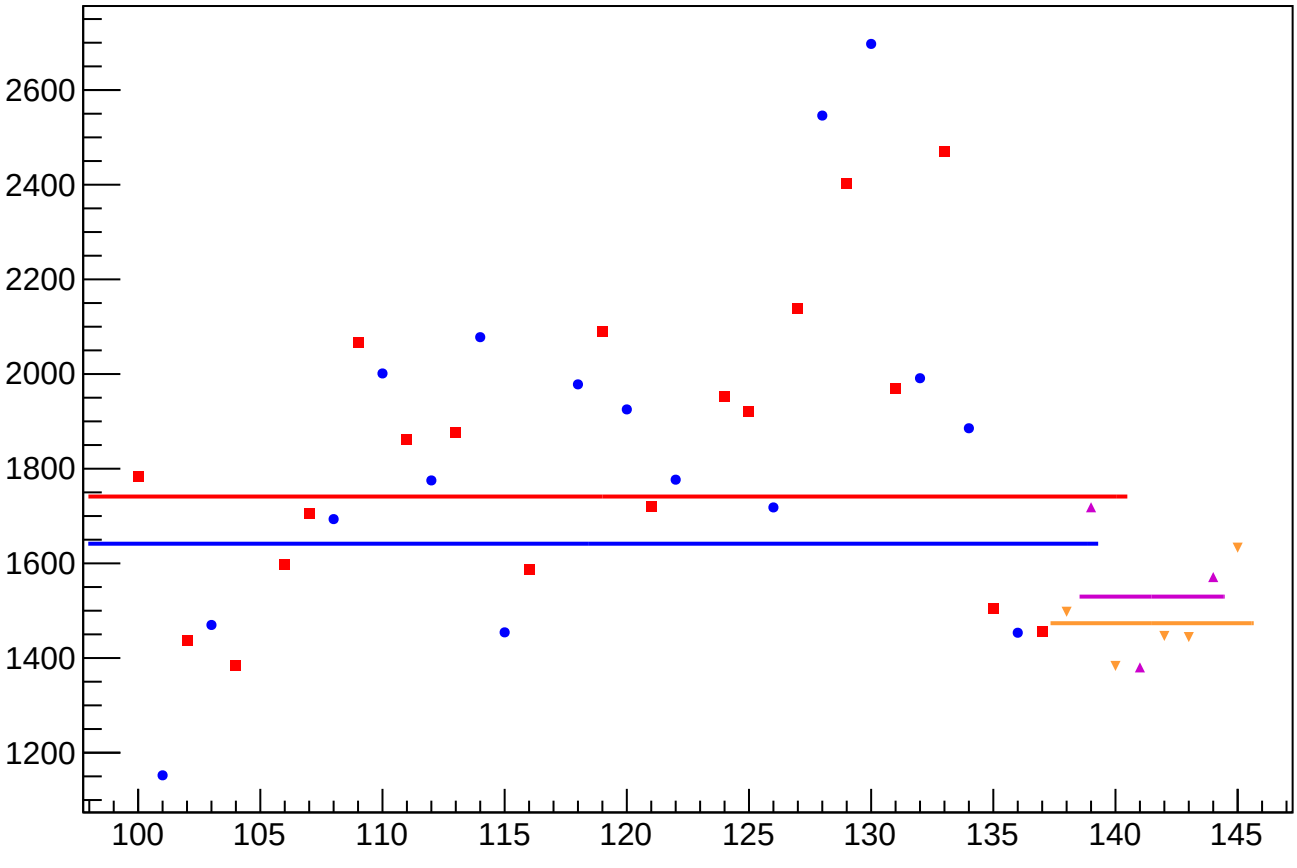
Left: 1048.676+/-599.357 $\chi^2$/NDF: 6.4/7

Right: -333.032+/-450.921 $\chi^2$/NDF: 32.6/34

In: -10.975+/-523.958 $\chi^2$/NDF:18.3/18

Out: 325.504+/-496.334 $\chi^2$/NDF:23.8/23

All: 166.368+/-360.331 $\chi^2$/NDF: 42.4/42




Right In: 1641.536+/-0.444 $\chi^2$/NDF: 701299.1/15

Left Out: 1473.568+/-0.546 $\chi^2$/NDF:23911.7/4

Right Out: 1741.199+/-0.458 $\chi^2$/NDF: 438324.1/18

Left In: 1529.774+/-0.672 $\chi^2$/NDF:42208.6/2

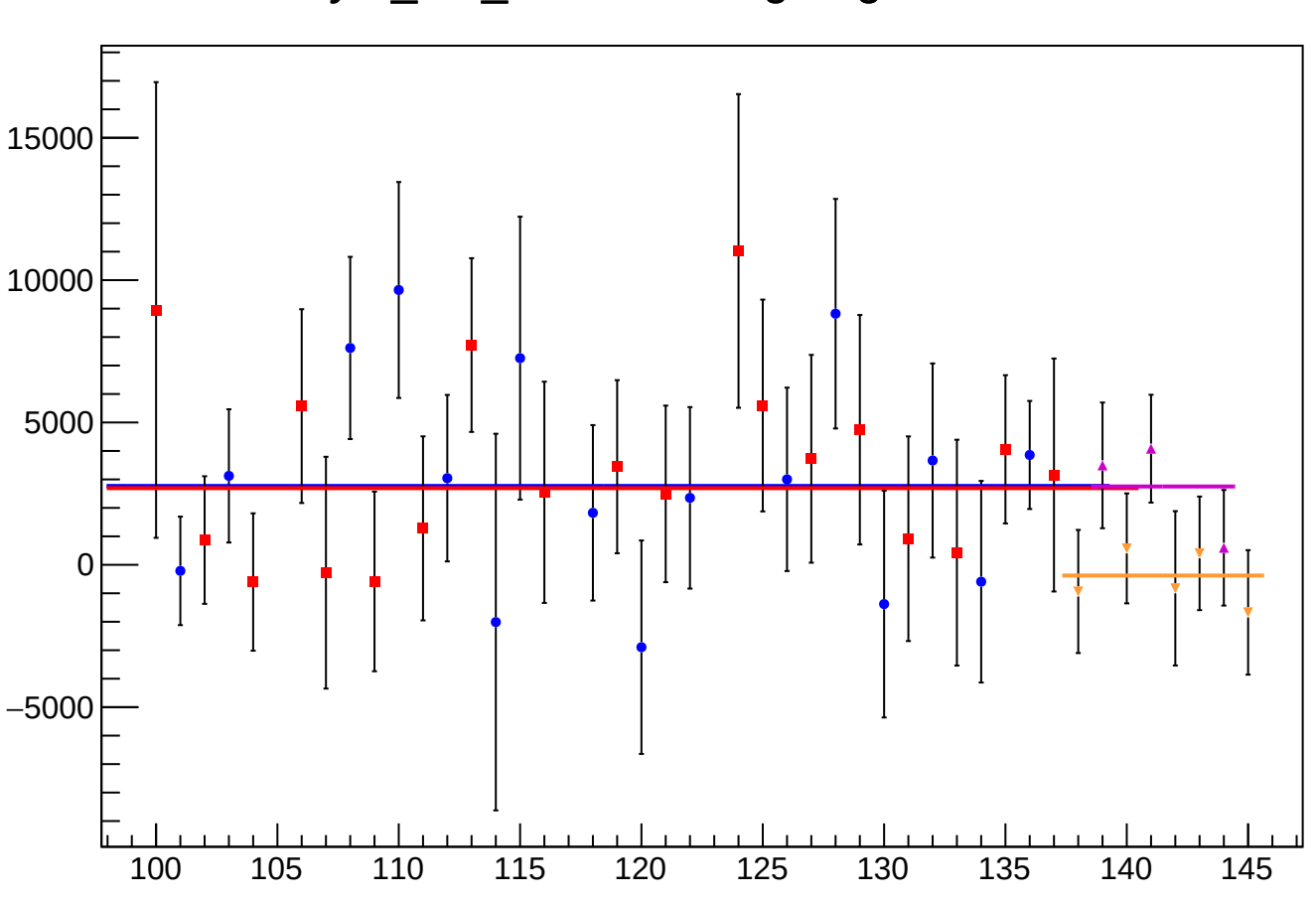
Left: 1495.928+/-0.424 $\chi^2$/NDF: 70333.8/7

Right: 1689.826+/-0.319 $\chi^2$/NDF: 1164025.0/34

In: 1607.557+/-0.370 $\chi^2$/NDF:762761.9/18

Out: 1630.680+/-0.351 $\chi^2$/NDF:603206.1/23

All: 1619.744+/-0.255 $\chi^2$/NDF: 1368021.0/42




Right In: 2769.952+/-757.109 $\chi^2$/NDF: 16.4/15

Left Out: -376.402+/-962.945 $\chi^2$/NDF:0.8/4

Right Out: 2692.625+/-765.754 $\chi^2$/NDF: 12.5/18

Left In: 2751.807+/-1172.974 $\chi^2$/NDF:1.7/2

Left: 883.046+/-744.270 $\chi^2$/NDF: 6.8/7

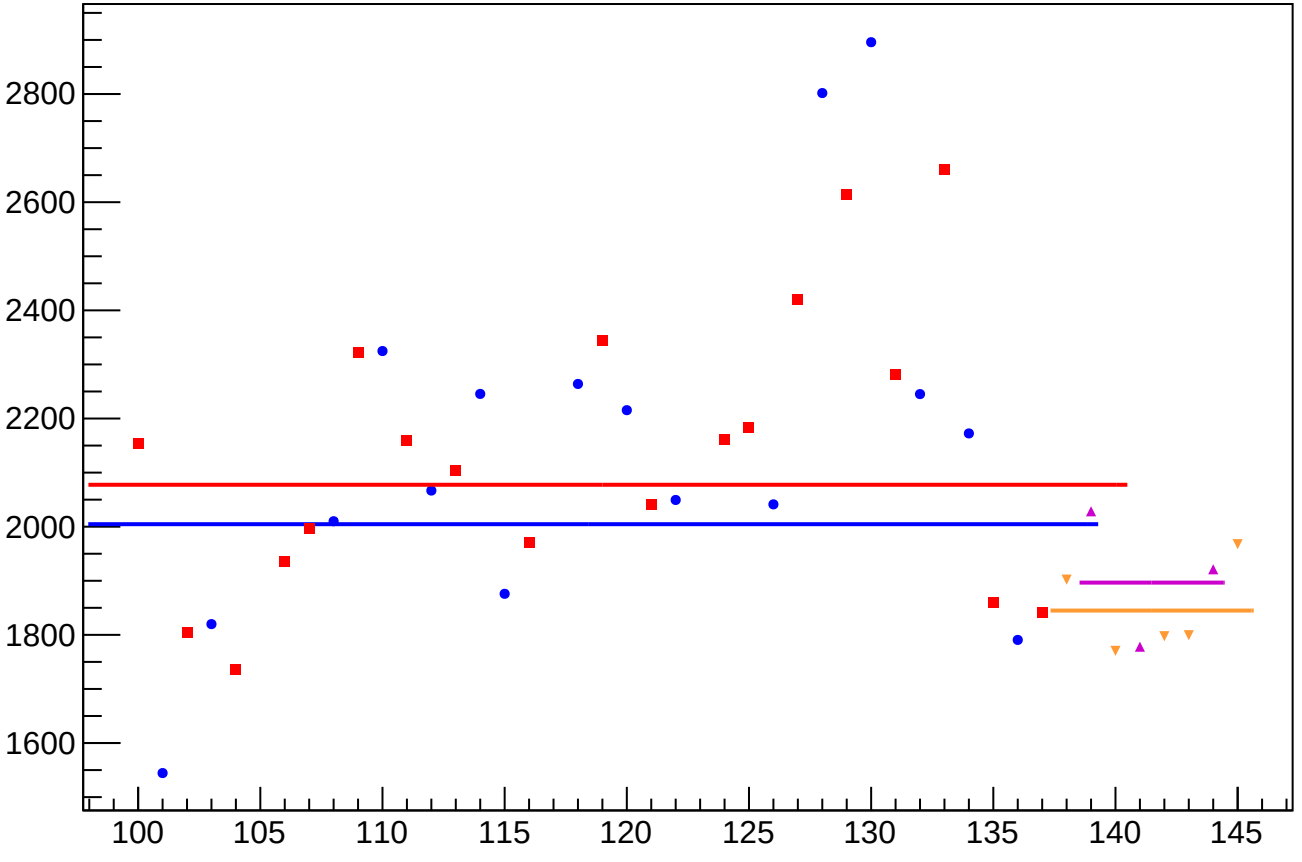
Right: 2731.727+/-538.387 $\chi^2$/NDF: 29.0/34

In: 2764.616+/-636.109 $\chi^2$/NDF:18.2/18

Out: 1503.696+/-599.348 $\chi^2$/NDF:19.6/23

All: 2096.670+/-436.220 $\chi^2$/NDF: 39.9/42

# asym_usr_rms vs Slug, Sign Corrected




Right In: 2004.635+/-0.535 $\chi^2$/NDF: 387567.3/15

Left Out: 1844.954+/-0.681 $\chi^2$/NDF:12337.1/4

Right Out: 2077.500+/-0.541 $\chi^2$/NDF: 230482.0/18

Left In: 1896.615+/-0.829 $\chi^2$/NDF:15266.1/2

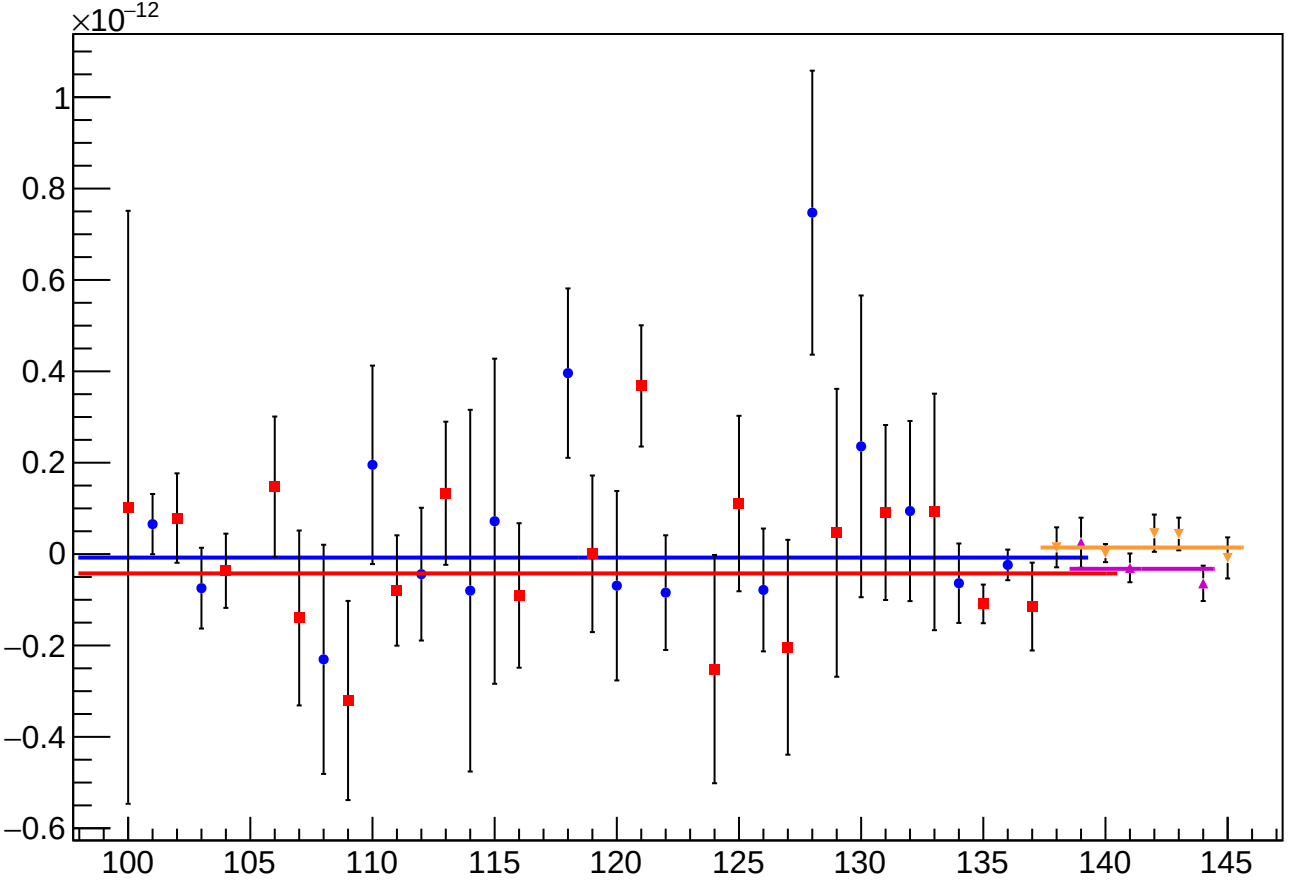
Left: 1865.753+/-0.526 $\chi^2$/NDF: 29920.8/7

Right: 2040.654+/-0.381 $\chi^2$/NDF: 627206.5/34

In: 1972.867+/-0.450 $\chi^2$/NDF:414806.5/18

Out: 1987.413+/-0.424 $\chi^2$/NDF:314272.8/23

All: 1980.572+/-0.308 $\chi^2$/NDF: 729633.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.9/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.8/2

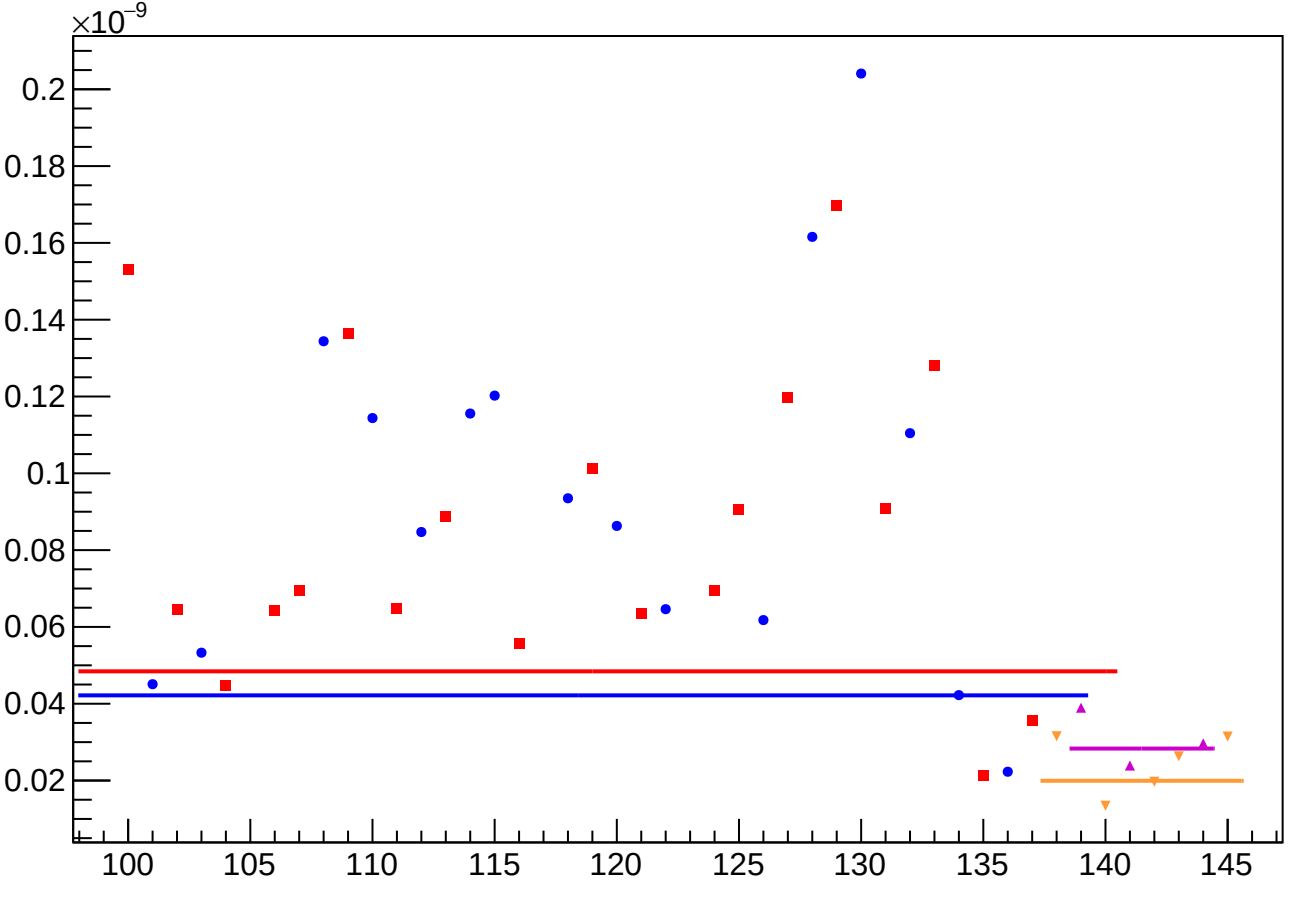
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:27.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2933545.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:550420.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2604483.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:117493.5/2

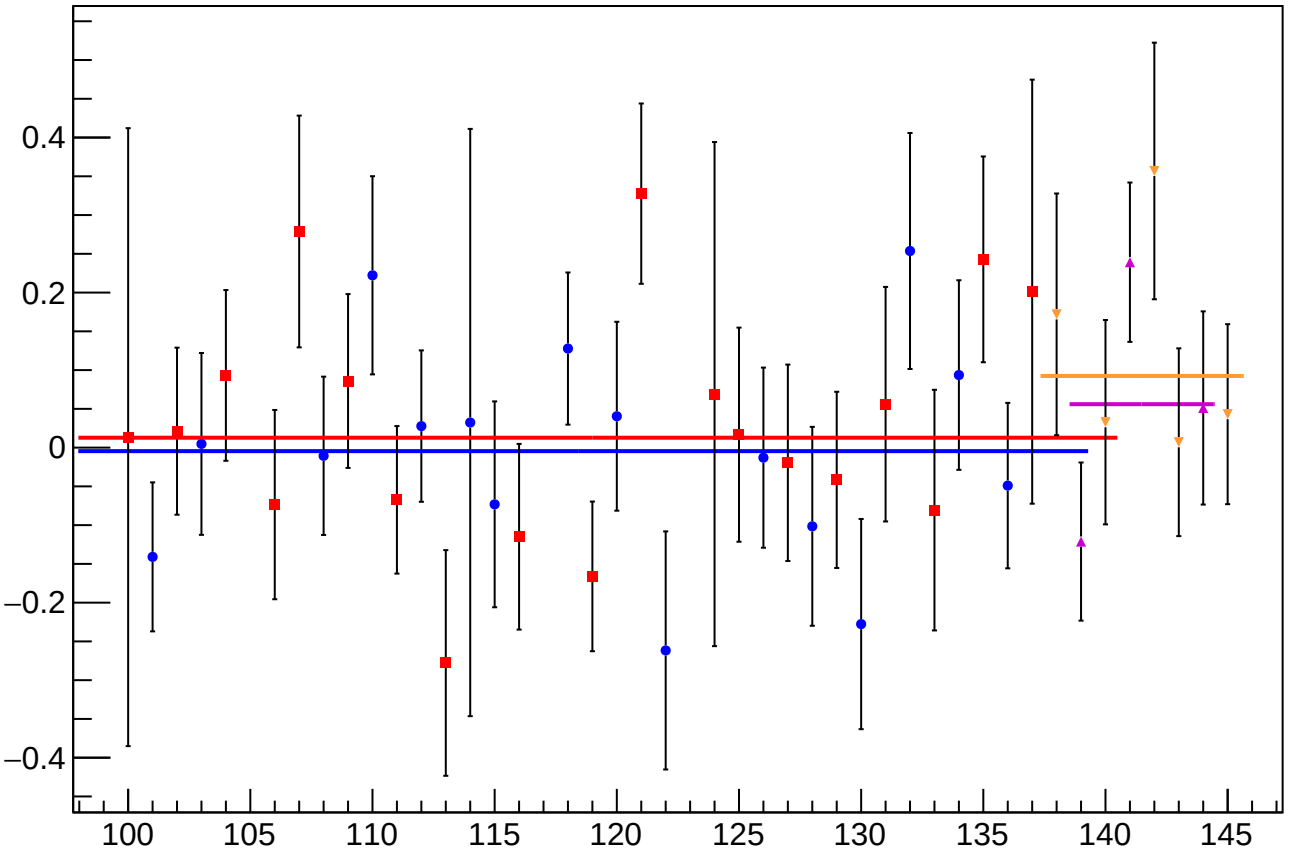
Left: 0.000+/-0.000 $\chi^2$/NDF: 869174.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 5597279.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3404259.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4898027.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8643821.1/42




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: 0.092+/-0.060 $\chi^2$/NDF:3.7/4

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: 0.056+/-0.063 $\chi^2$/NDF:6.2/2

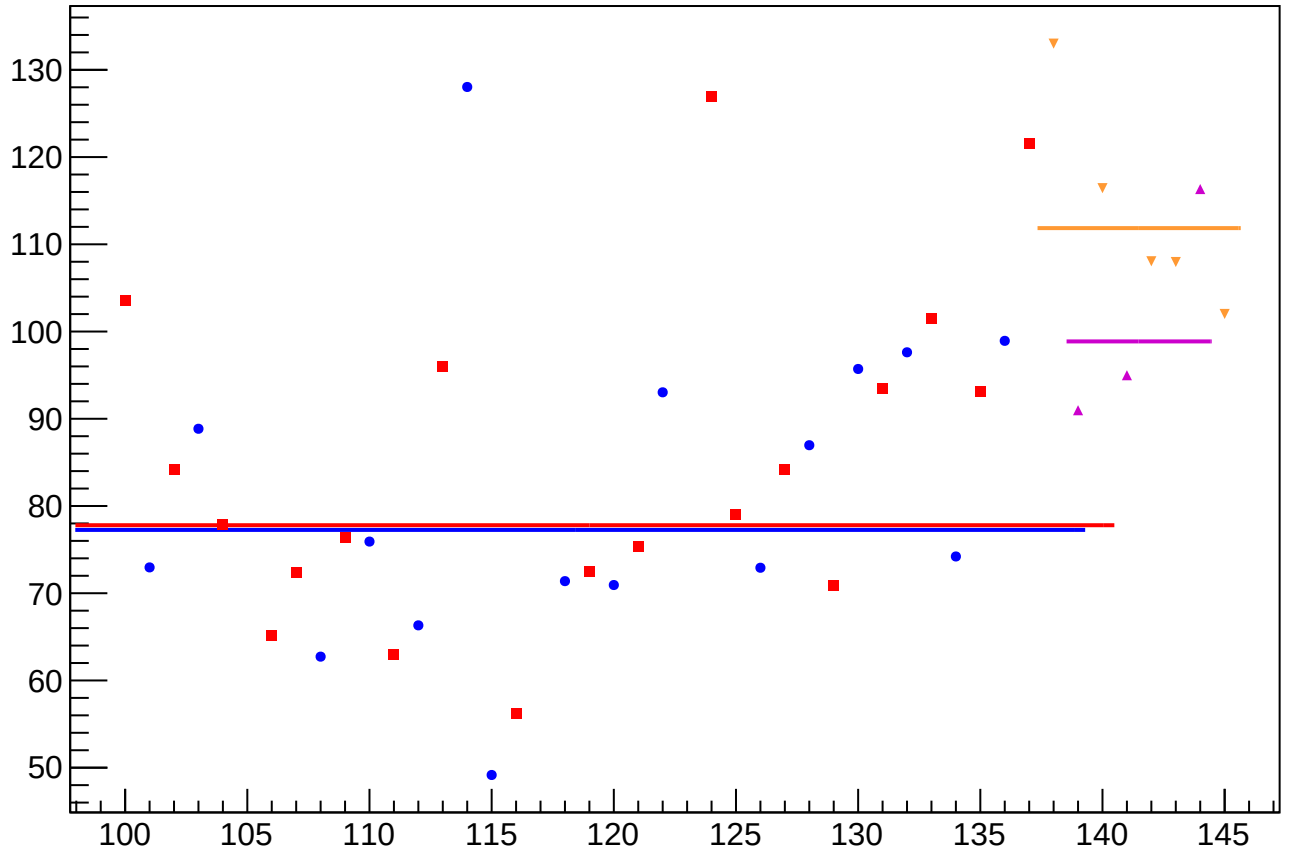
Left: 0.075+/-0.043 $\chi^2$/NDF: 10.1/7

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: 0.007+/-0.027 $\chi^2$/NDF:24.3/18

Out: 0.028+/-0.027 $\chi^2$/NDF:30.6/23

All: 0.018+/-0.019 $\chi^2$/NDF: 55.2/42




Right In: 77.259+/-0.021 $\chi^2$/NDF: 419290.2/15

Left Out: 111.856+/-0.042 $\chi^2$/NDF:56703.6/4

Right Out: 77.796+/-0.021 $\chi^2$/NDF: 396477.1/18

Left In: 98.867+/-0.044 $\chi^2$/NDF:54094.2/2

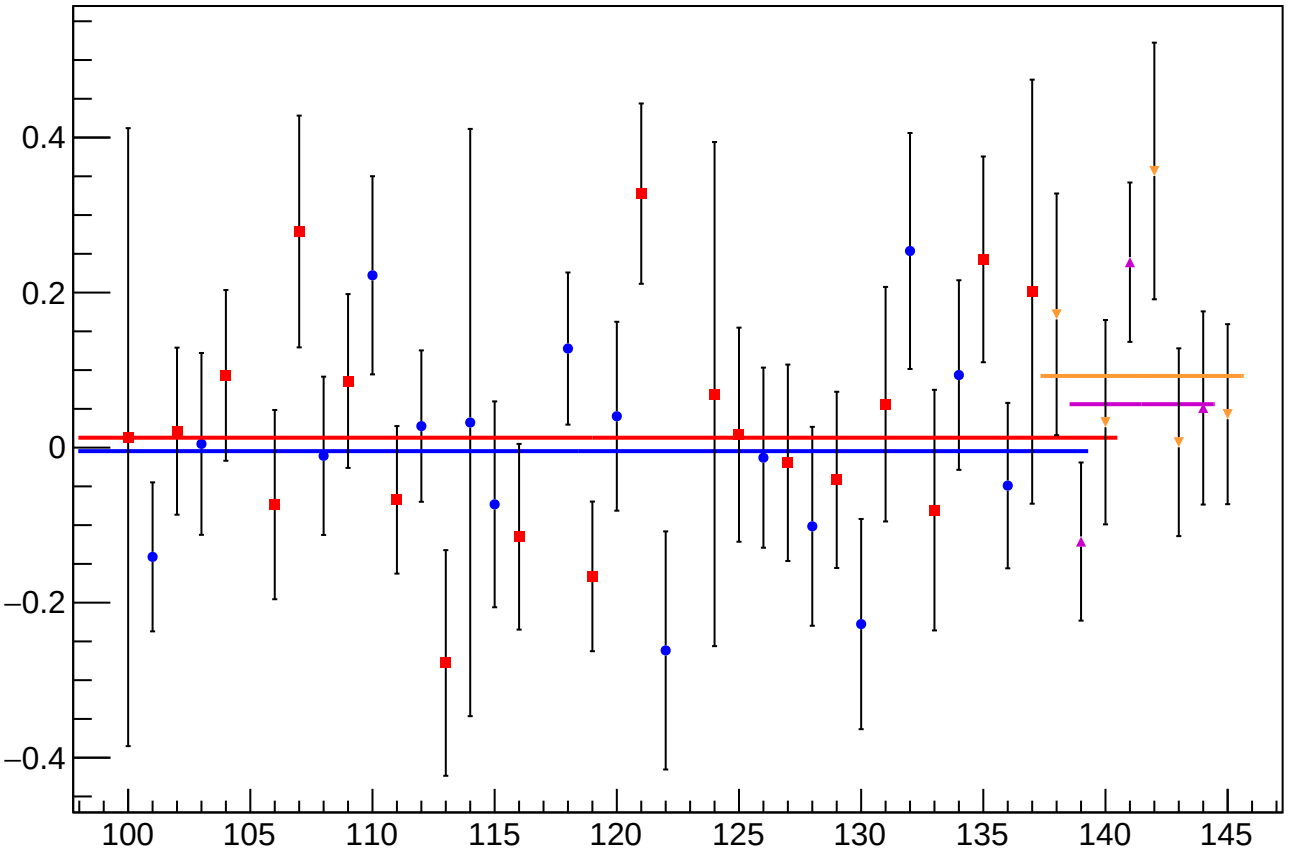
Left: 105.635+/-0.031 $\chi^2$/NDF: 155658.9/7

Right: 77.530+/-0.015 $\chi^2$/NDF: 816090.7/34

In: 81.305+/-0.019 $\chi^2$/NDF:667028.2/18

Out: 84.504+/-0.019 $\chi^2$/NDF:970365.4/23

All: 82.932+/-0.013 $\chi^2$/NDF: 1651572.8/42




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: 0.092+/-0.060 $\chi^2$/NDF:3.7/4

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: 0.056+/-0.063 $\chi^2$/NDF:6.2/2

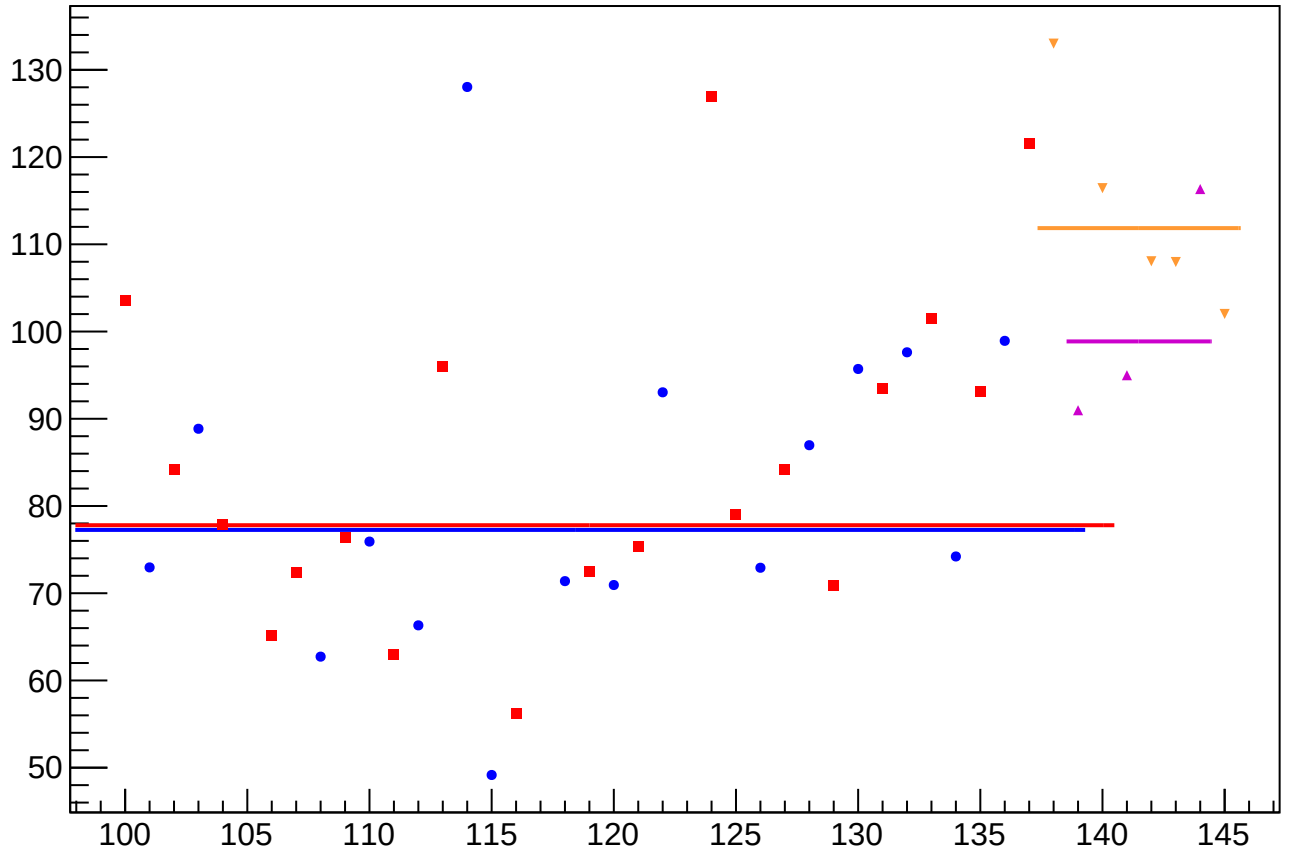
Left: 0.075+/-0.043 $\chi^2$/NDF: 10.1/7

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: 0.007+/-0.027 $\chi^2$/NDF:24.3/18

Out: 0.028+/-0.027 $\chi^2$/NDF:30.6/23

All: 0.018+/-0.019 $\chi^2$/NDF: 55.2/42




Right In: 77.259+/-0.021 $\chi^2$/NDF: 419290.2/15

Left Out: 111.856+/-0.042 $\chi^2$/NDF:56703.6/4

Right Out: 77.796+/-0.021 $\chi^2$/NDF: 396477.1/18

Left In: 98.867+/-0.044 $\chi^2$/NDF:54094.2/2

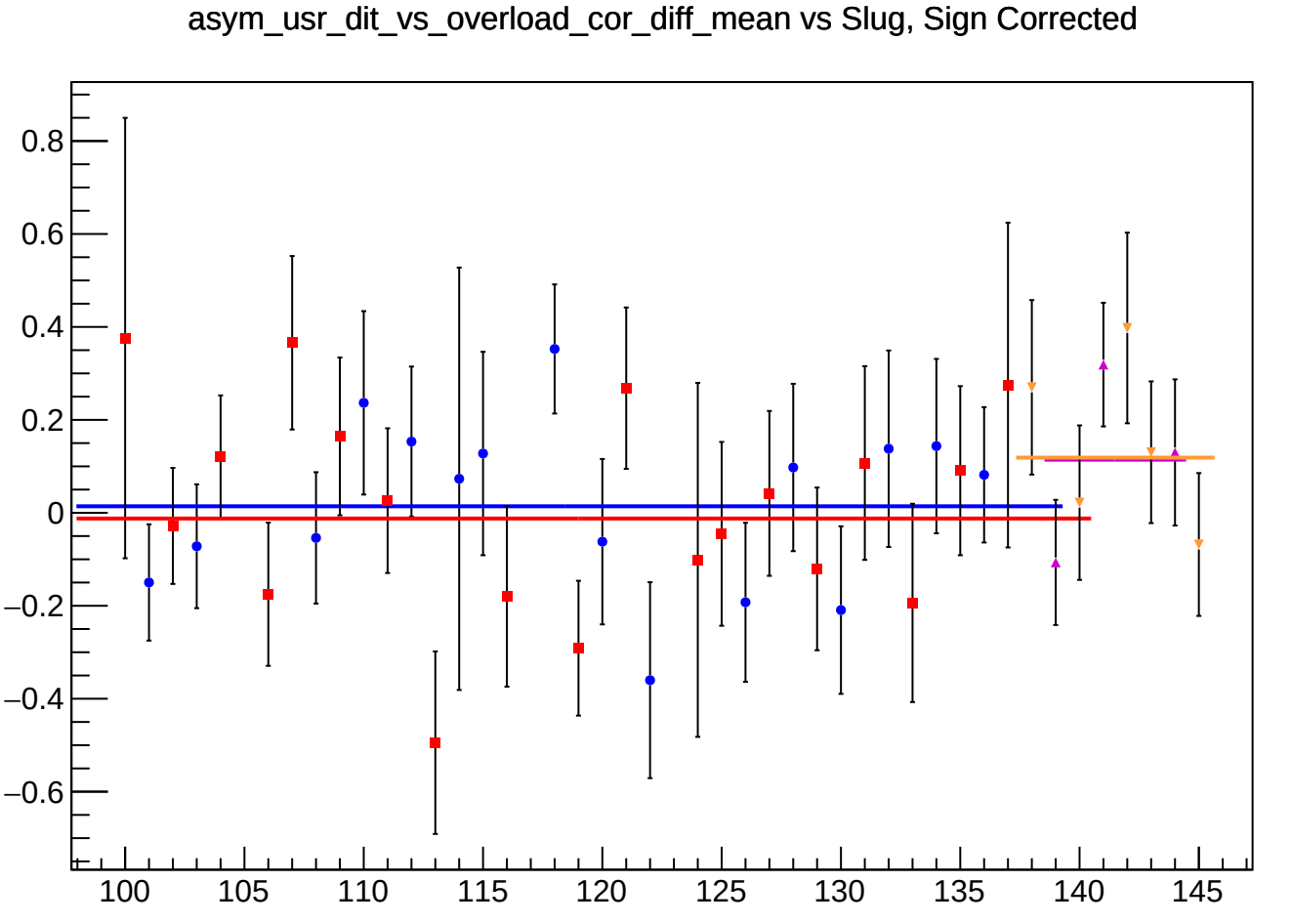
Left: 105.635+/-0.031 $\chi^2$/NDF: 155658.9/7

Right: 77.530+/-0.015 $\chi^2$/NDF: 816090.7/34

In: 81.305+/-0.019 $\chi^2$/NDF:667028.2/18

Out: 84.504+/-0.019 $\chi^2$/NDF:970365.4/23

All: 82.932+/-0.013 $\chi^2$/NDF: 1651572.8/42


asym_usr_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected
0.8
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−0.4
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135
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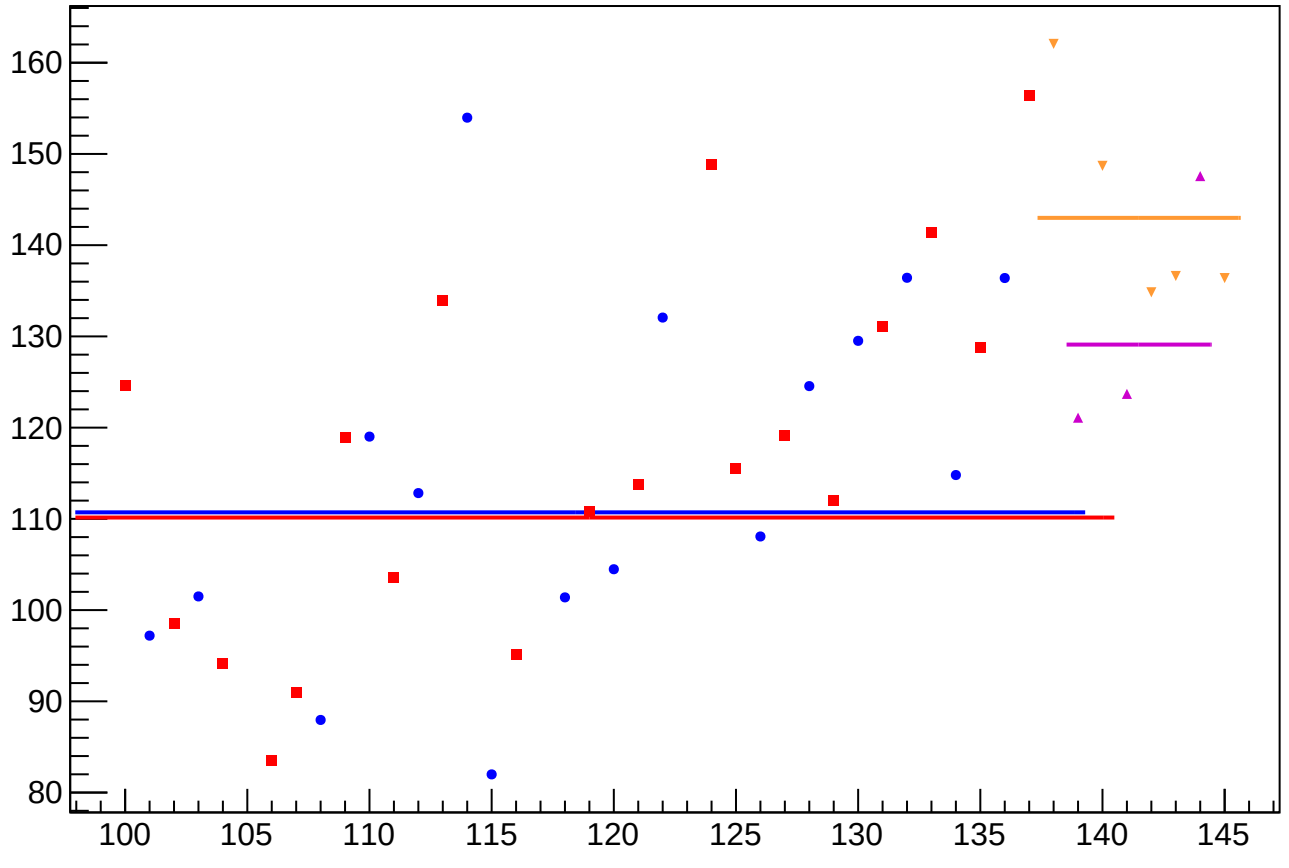
145
Right In: 0.014+/-0.042 χ²/NDF: 18.2/15
Left Out: 0.119+/-0.076 χ²/NDF:4.3/4
Right Out: -0.012+/-0.041 χ²/NDF: 23.8/18
Left In: 0.114+/-0.081 χ²/NDF:5.1/2
Left: 0.117+/-0.055 χ²/NDF: 9.4/7
Right: 0.001+/-0.030 χ²/NDF: 42.1/34
In: 0.036+/-0.037 χ²/NDF:24.5/18
Out: 0.018+/-0.036 χ²/NDF:30.4/23
All: 0.026+/-0.026 χ²/NDF: 54.9/42




Right In: 110.714+/-0.030 $\chi^2$/NDF: 299972.8/15

Left Out: 142.994+/-0.054 $\chi^2$/NDF:33340.9/4

Right Out: 110.145+/-0.029 $\chi^2$/NDF: 326726.5/18

Left In: 129.103+/-0.057 $\chi^2$/NDF:37982.2/2

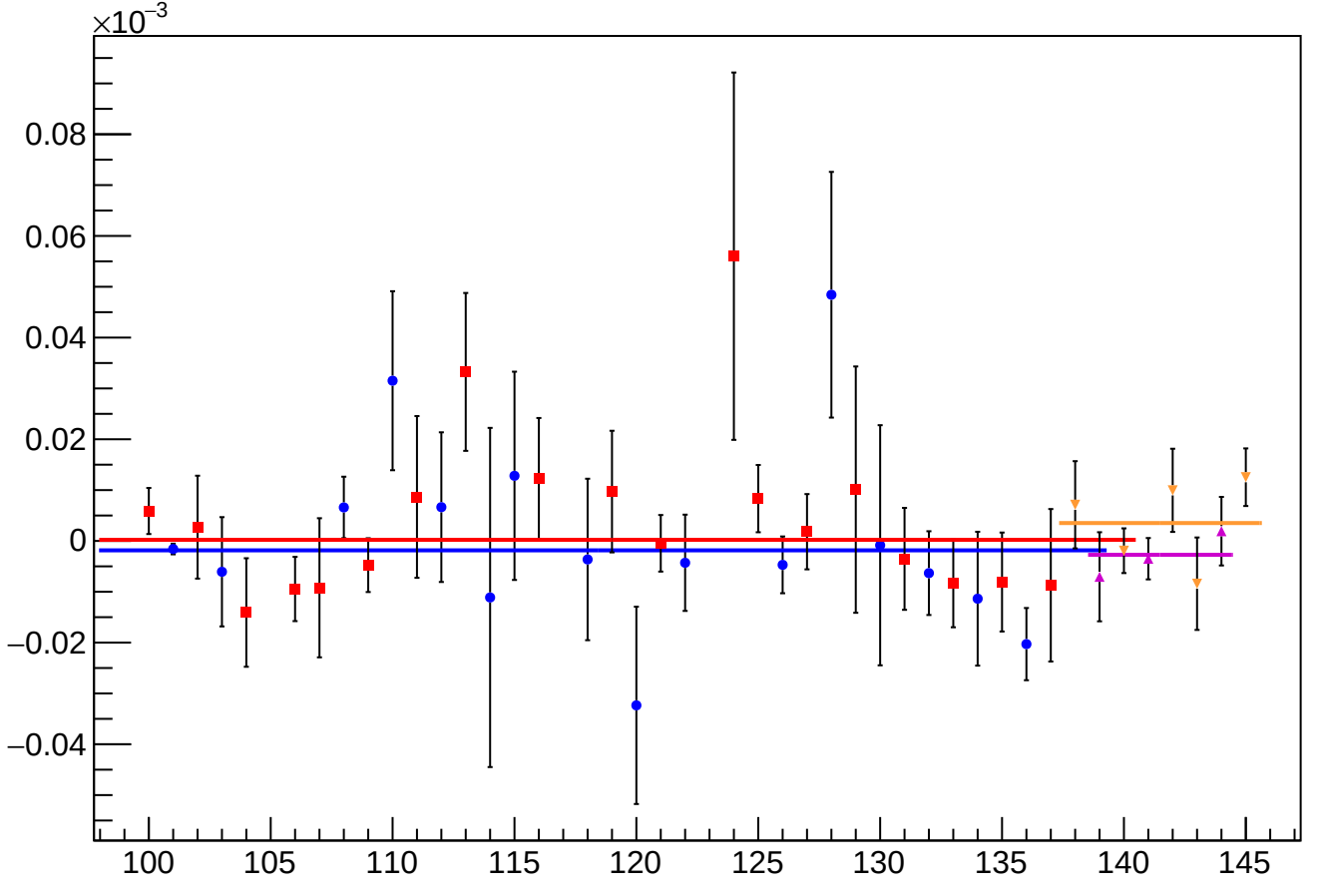
Left: 136.508+/-0.039 $\chi^2$/NDF: 102622.5/7

Right: 110.423+/-0.021 $\chi^2$/NDF: 626885.1/34

In: 114.645+/-0.027 $\chi^2$/NDF:418849.7/18

Out: 117.657+/-0.026 $\chi^2$/NDF:649240.0/23

All: 116.200+/-0.018 $\chi^2$/NDF: 1074758.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.8/2

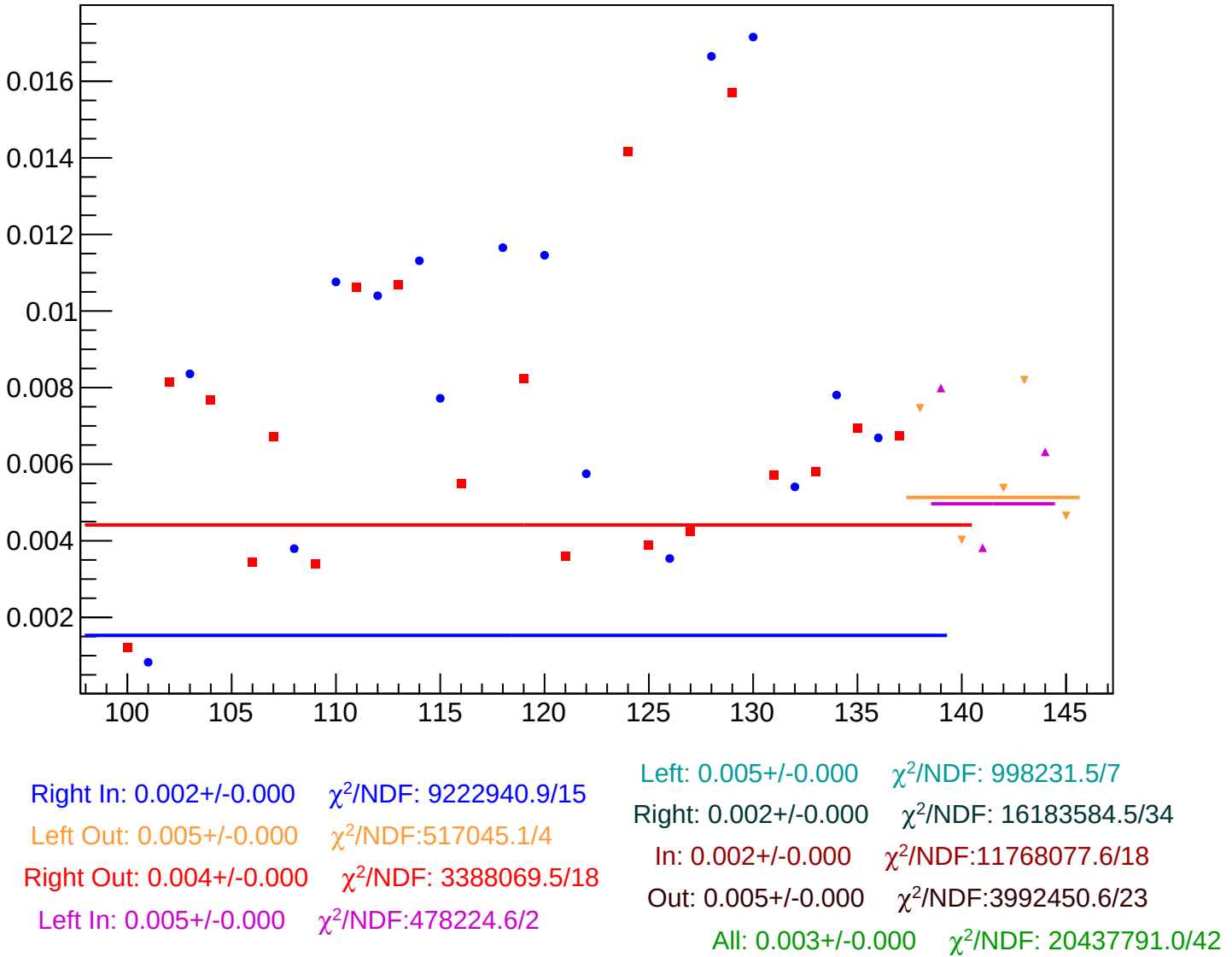
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.4/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:27.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 52.6/42


asym_usr_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
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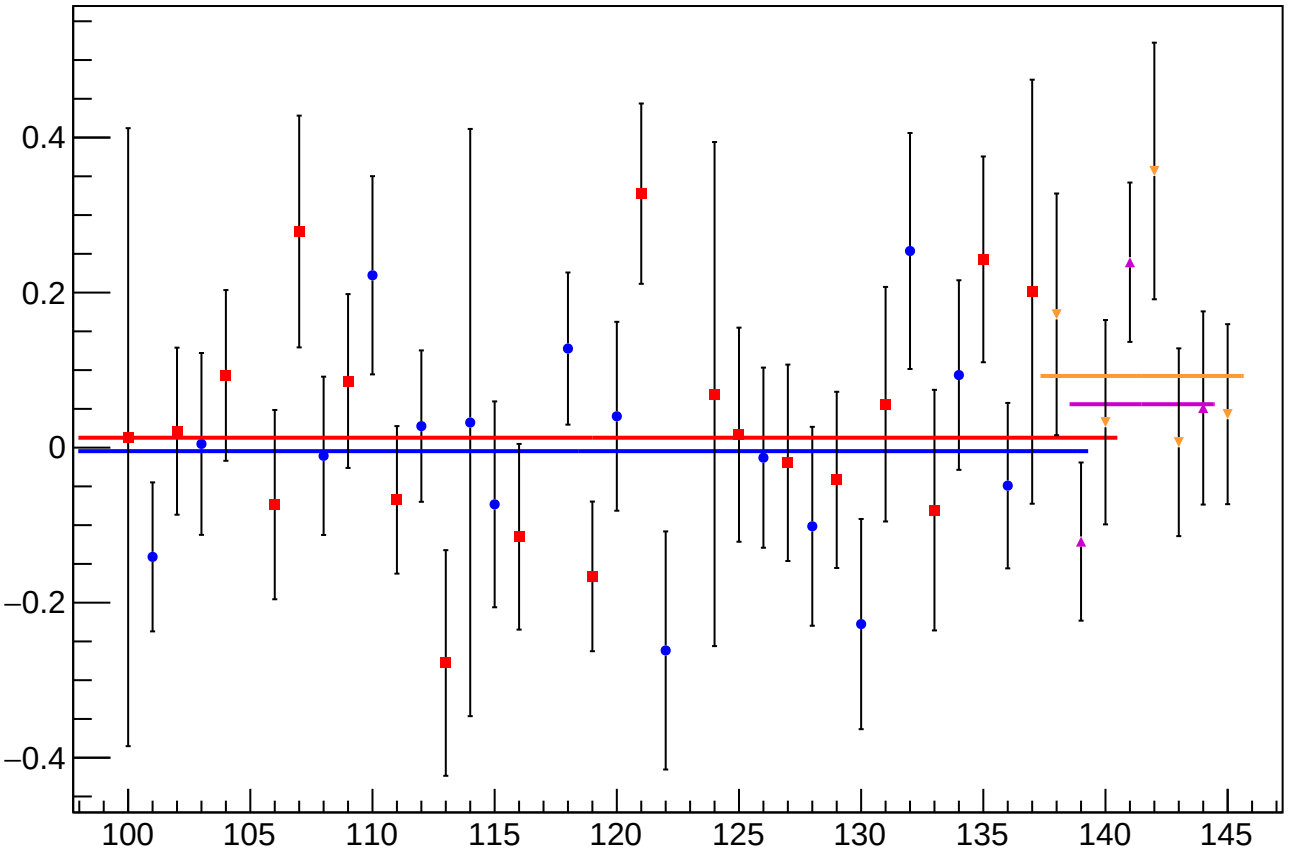
Right In: 0.002+/-0.000 χ²/NDF: 9222940.9/15
Left Out: 0.005+/-0.000 χ²/NDF:517045.1/4
Right Out: 0.004+/-0.000 χ²/NDF: 3388069.5/18
Left In: 0.005+/-0.000 χ²/NDF:478224.6/2
Left: 0.005+/-0.000 χ²/NDF: 998231.5/7
Right: 0.002+/-0.000 χ²/NDF: 16183584.5/34
In: 0.002+/-0.000 χ²/NDF:11768077.6/18
Out: 0.005+/-0.000 χ²/NDF:3992450.6/23
All: 0.003+/-0.000 χ²/NDF: 20437791.0/42




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: 0.092+/-0.060 $\chi^2$/NDF:3.7/4

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: 0.056+/-0.063 $\chi^2$/NDF:6.2/2

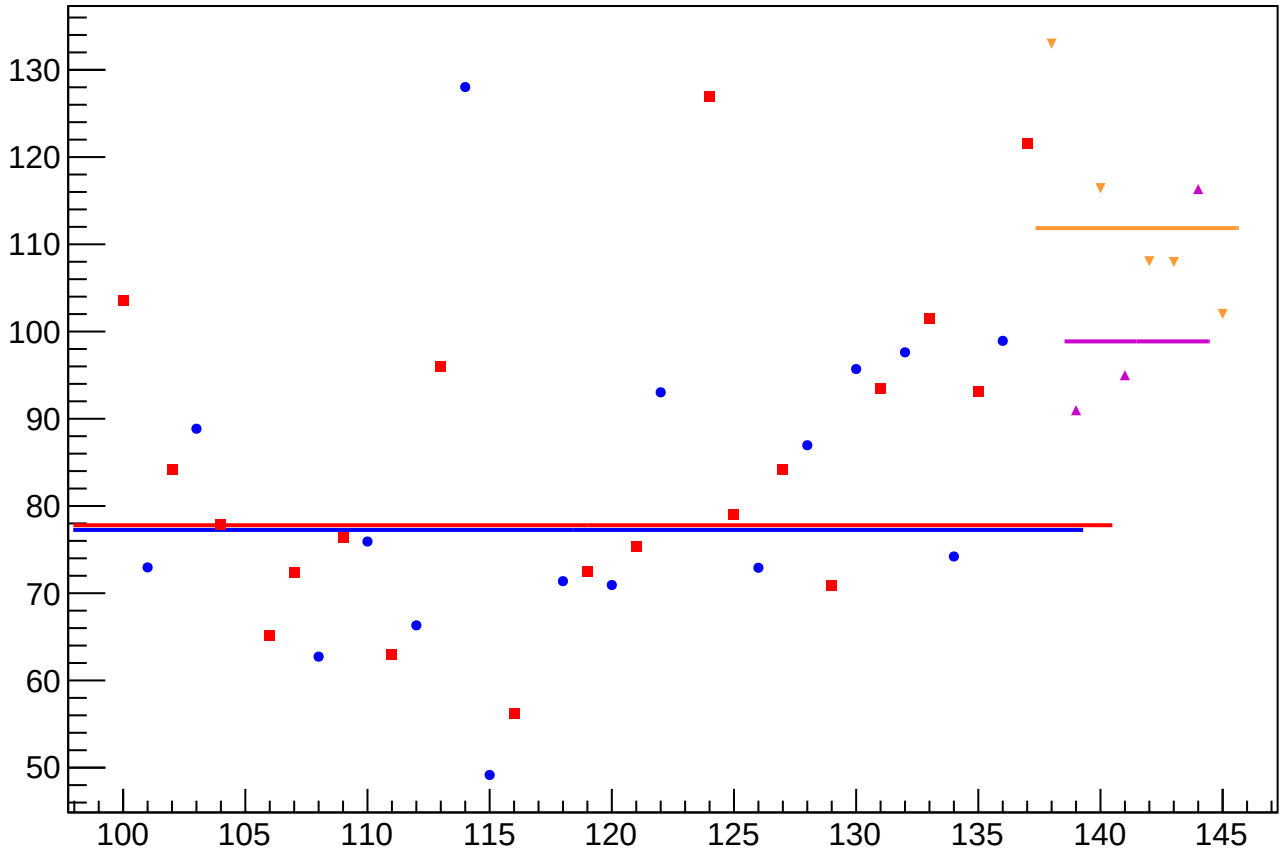
Left: 0.075+/-0.043 $\chi^2$/NDF: 10.1/7

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: 0.007+/-0.027 $\chi^2$/NDF:24.3/18

Out: 0.028+/-0.027 $\chi^2$/NDF:30.6/23

All: 0.018+/-0.019 $\chi^2$/NDF: 55.2/42




Right In: 77.257+/-0.021 $\chi^2$/NDF: 419276.8/15

Left Out: 111.857+/-0.042 $\chi^2$/NDF:56703.3/4

Right Out: 77.795+/-0.021 $\chi^2$/NDF: 396473.9/18

Left In: 98.868+/-0.044 $\chi^2$/NDF:54090.6/2

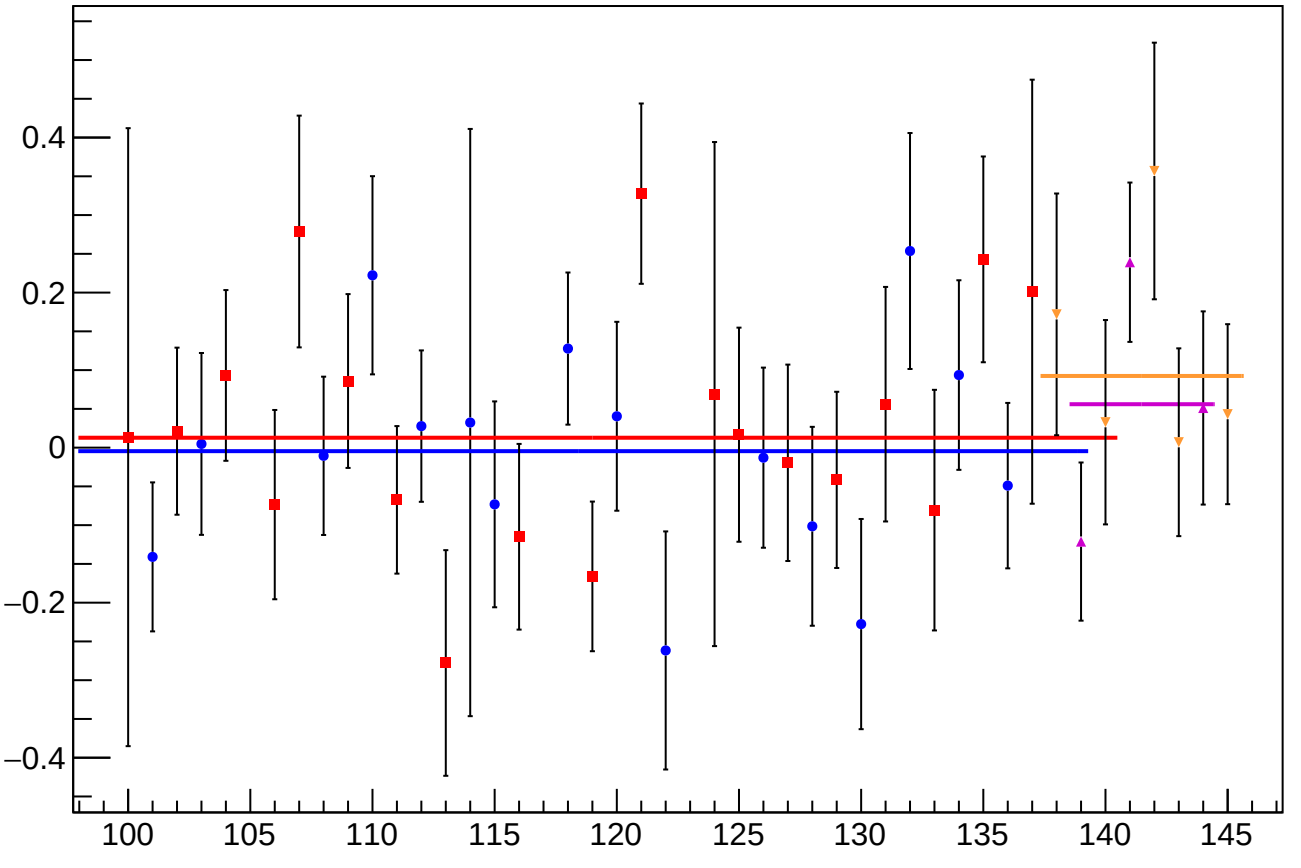
Left: 105.636+/-0.031 $\chi^2$/NDF: 155653.2/7

Right: 77.529+/-0.015 $\chi^2$/NDF: 816074.1/34

In: 81.304+/-0.019 $\chi^2$/NDF:667049.8/18

Out: 84.503+/-0.019 $\chi^2$/NDF:970423.9/23

All: 82.930+/-0.013 $\chi^2$/NDF: 1651652.2/42




Right In: -0.005+/-0.030 $\chi^2$/NDF: 17.3/15

Left Out: 0.092+/-0.060 $\chi^2$/NDF:3.7/4

Right Out: 0.013+/-0.030 $\chi^2$/NDF: 25.5/18

Left In: 0.056+/-0.063 $\chi^2$/NDF:6.2/2

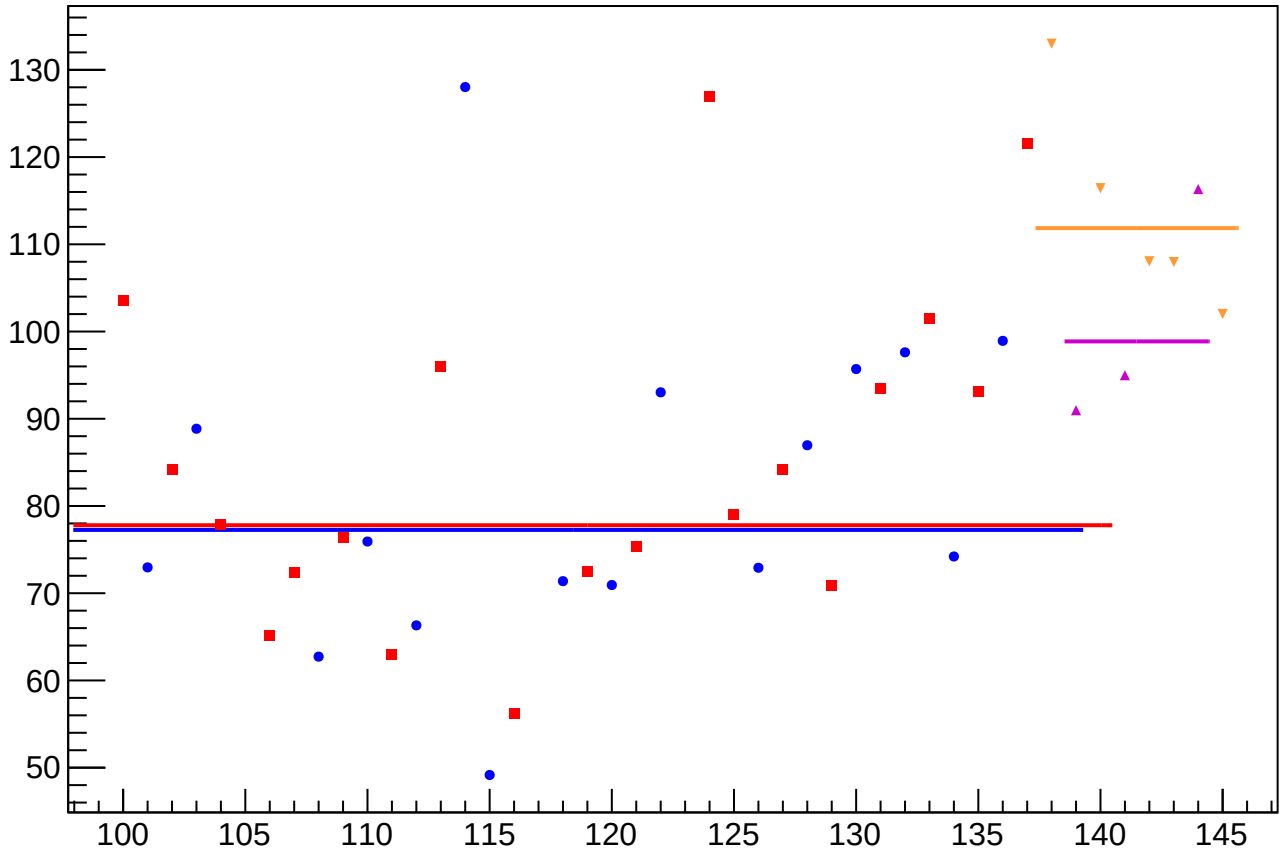
Left: 0.075+/-0.043 $\chi^2$/NDF: 10.1/7

Right: 0.004+/-0.021 $\chi^2$/NDF: 42.9/34

In: 0.007+/-0.027 $\chi^2$/NDF:24.3/18

Out: 0.028+/-0.027 $\chi^2$/NDF:30.6/23

All: 0.018+/-0.019 $\chi^2$/NDF: 55.2/42




Right In: 77.257+/-0.021 $\chi^2$/NDF: 419276.8/15

Left Out: 111.857+/-0.042 $\chi^2$/NDF:56703.3/4

Right Out: 77.795+/-0.021 $\chi^2$/NDF: 396473.9/18

Left In: 98.868+/-0.044 $\chi^2$/NDF:54090.6/2

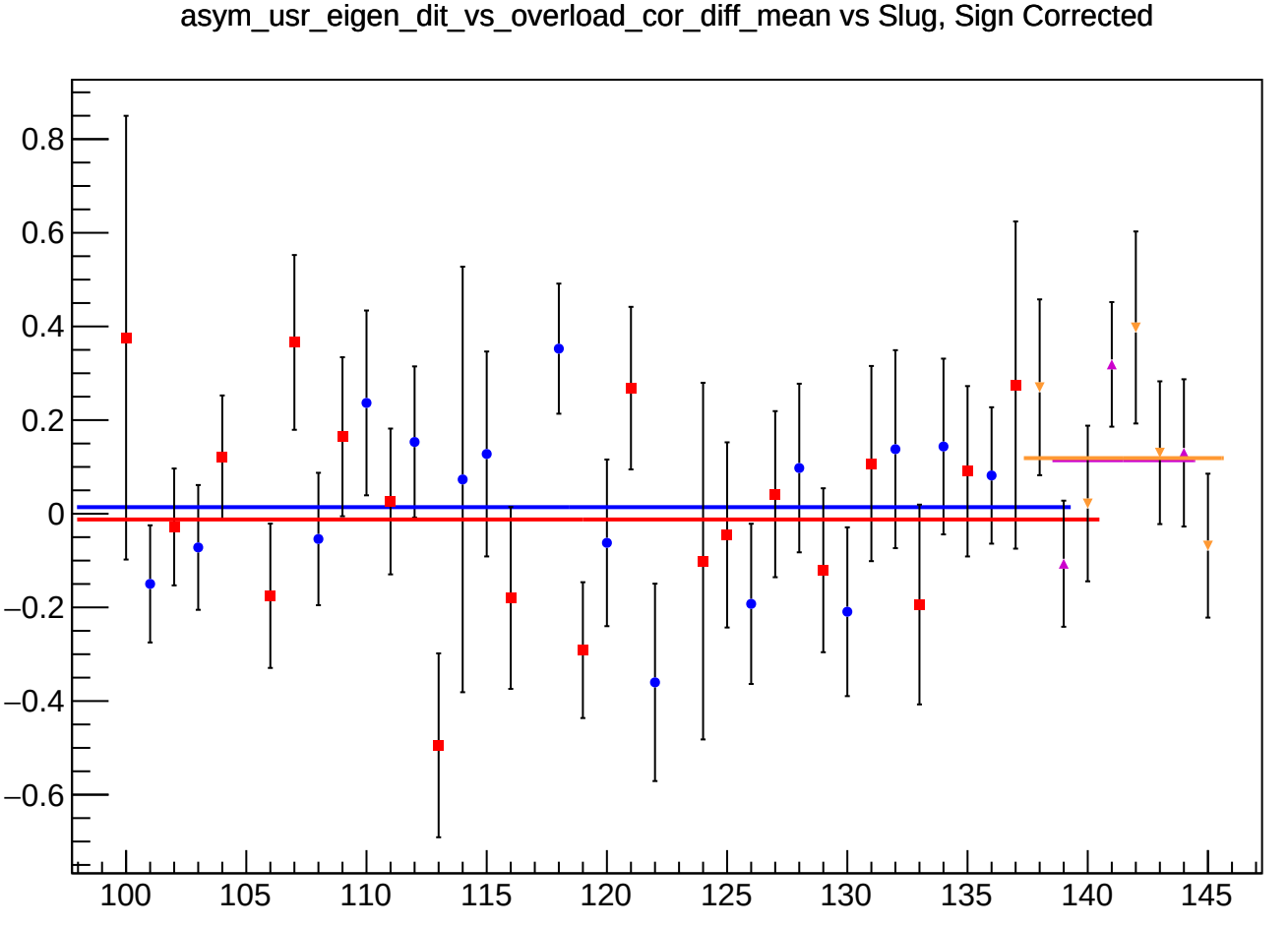
Left: 105.636+/-0.031 $\chi^2$/NDF: 155653.2/7

Right: 77.529+/-0.015 $\chi^2$/NDF: 816074.1/34

In: 81.304+/-0.019 $\chi^2$/NDF:667049.8/18

Out: 84.503+/-0.019 $\chi^2$/NDF:970423.9/23

All: 82.930+/-0.013 $\chi^2$/NDF: 1651652.2/42


asym_usr_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected
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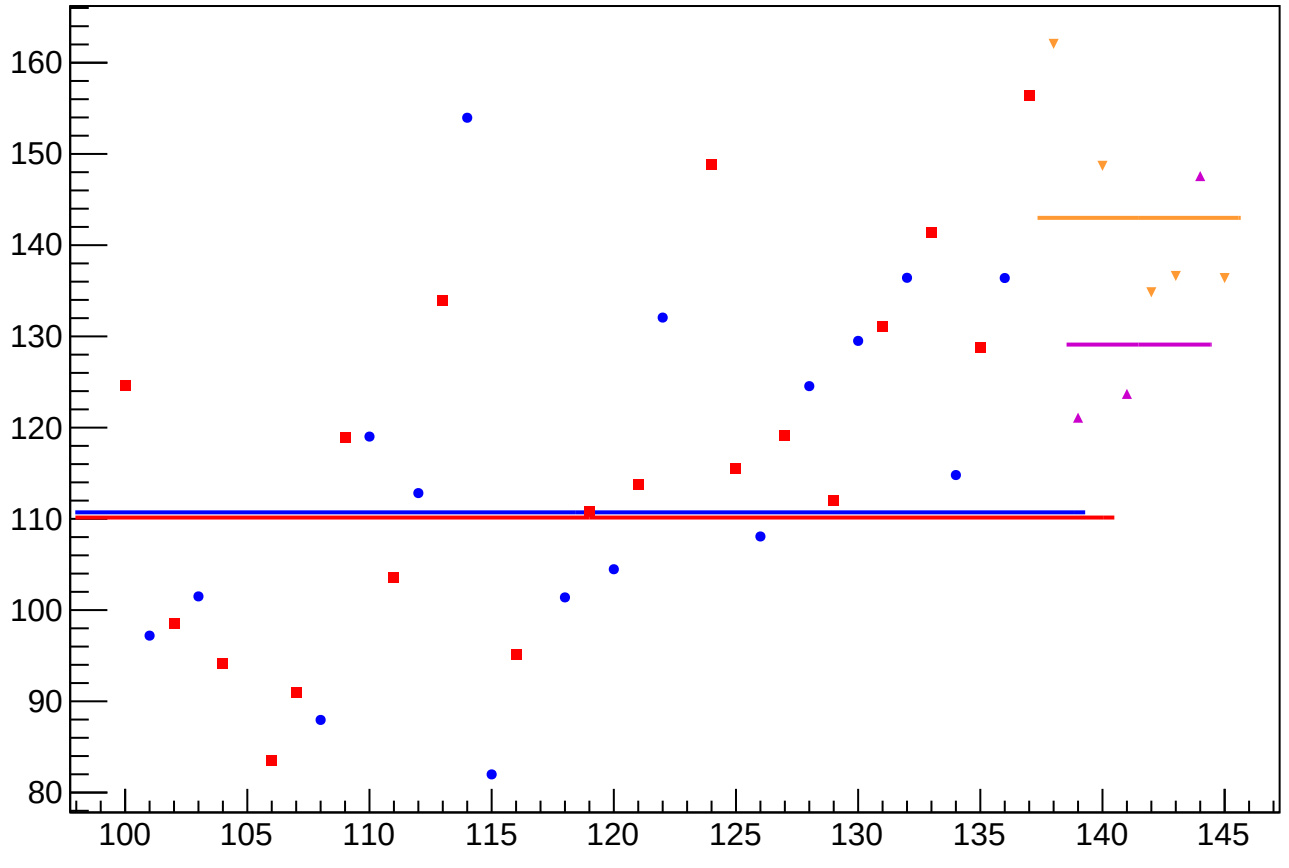
Right In: 0.014+/-0.042 χ²/NDF: 18.2/15
Left Out: 0.119+/-0.076 χ²/NDF:4.3/4
Right Out: -0.012+/-0.041 χ²/NDF: 23.8/18
Left In: 0.114+/-0.081 χ²/NDF:5.1/2
Left: 0.117+/-0.055 χ²/NDF: 9.4/7
Right: 0.001+/-0.030 χ²/NDF: 42.1/34
In: 0.036+/-0.037 χ²/NDF:24.5/18
Out: 0.018+/-0.036 χ²/NDF:30.4/23
All: 0.026+/-0.026 χ²/NDF: 54.9/42




Right In: 110.714+/-0.030 $\chi^2$/NDF: 299948.2/15

Left Out: 142.994+/-0.054 $\chi^2$/NDF:33339.5/4

Right Out: 110.144+/-0.029 $\chi^2$/NDF: 326696.7/18

Left In: 129.103+/-0.057 $\chi^2$/NDF:37980.8/2

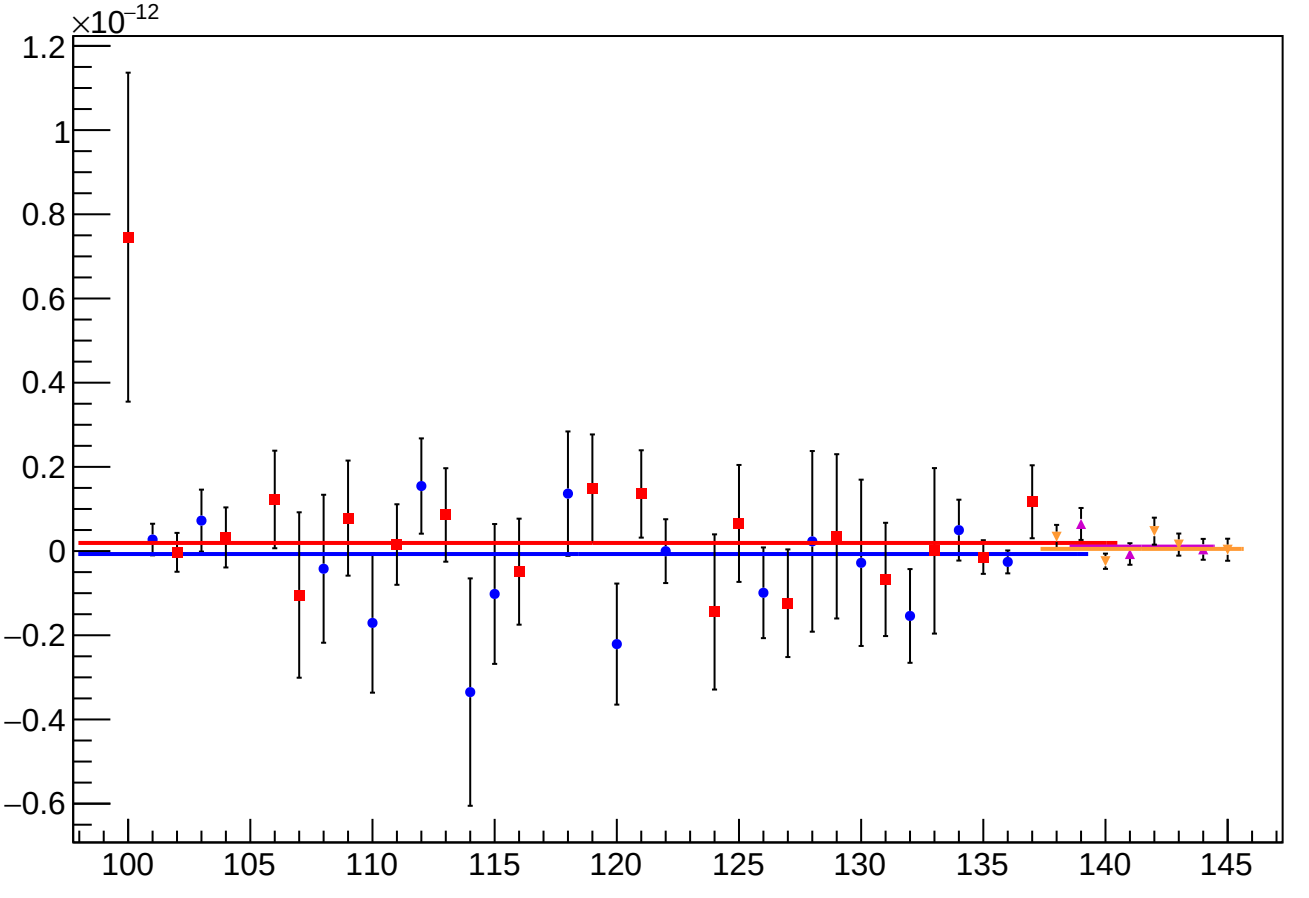
Left: 136.509+/-0.039 $\chi^2$/NDF: 102618.4/7

Right: 110.422+/-0.021 $\chi^2$/NDF: 626830.6/34

In: 114.644+/-0.027 $\chi^2$/NDF:418836.0/18

Out: 117.656+/-0.026 $\chi^2$/NDF:649227.8/23

All: 116.199+/-0.018 $\chi^2$/NDF: 1074732.6/42




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

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.6/2

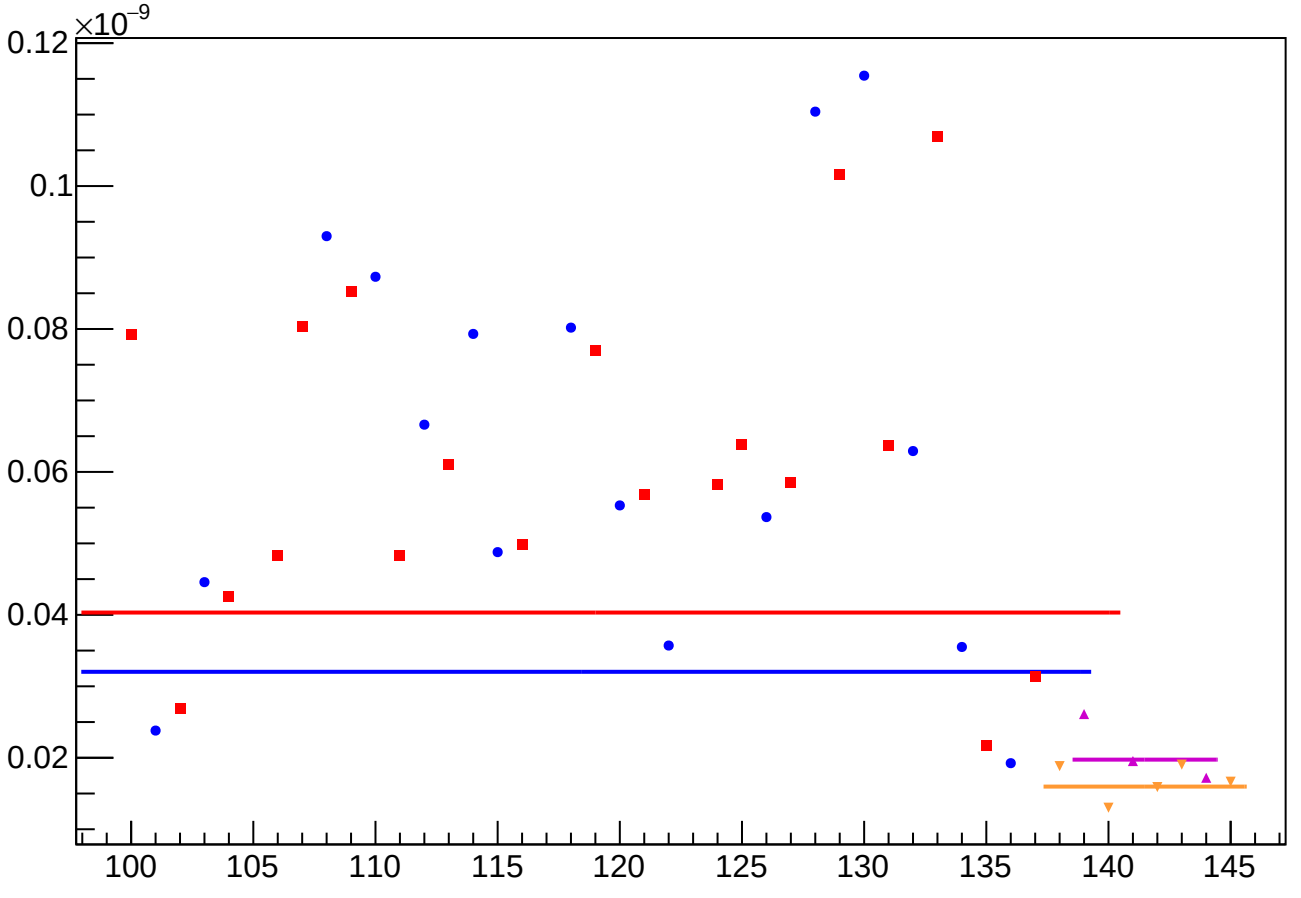
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 27.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:18.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 35.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2459312.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:102503.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1866332.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:77580.3/2

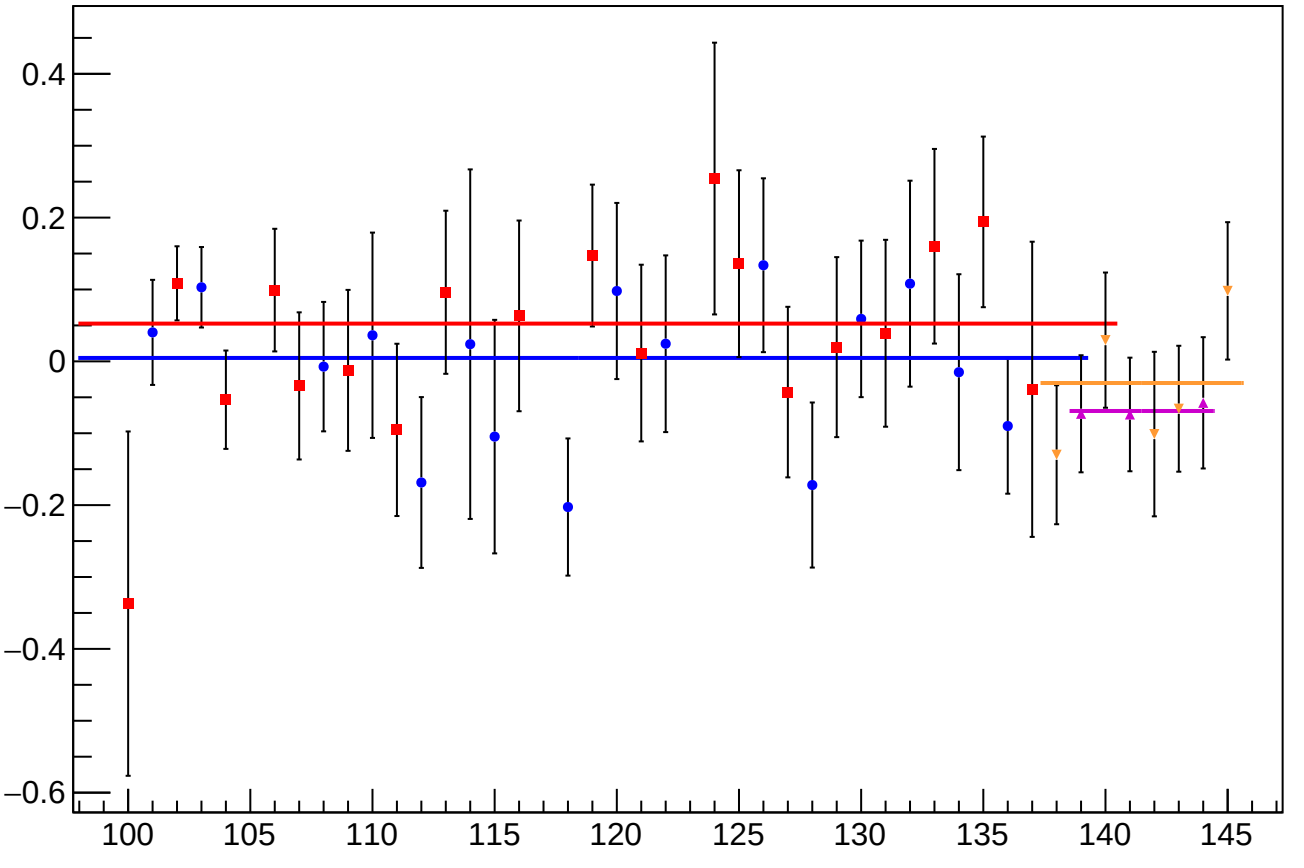
Left: 0.000+/-0.000 $\chi^2$/NDF: 254554.7/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4504924.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:3056862.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4056152.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7248624.7/42




Right In: 0.005+/-0.026 $\chi^2$/NDF: 16.6/15

Left Out: -0.030+/-0.043 $\chi^2$/NDF:3.8/4

Right Out: 0.053+/-0.024 $\chi^2$/NDF: 14.8/18

Left In: -0.069+/-0.048 $\chi^2$/NDF:0.0/2

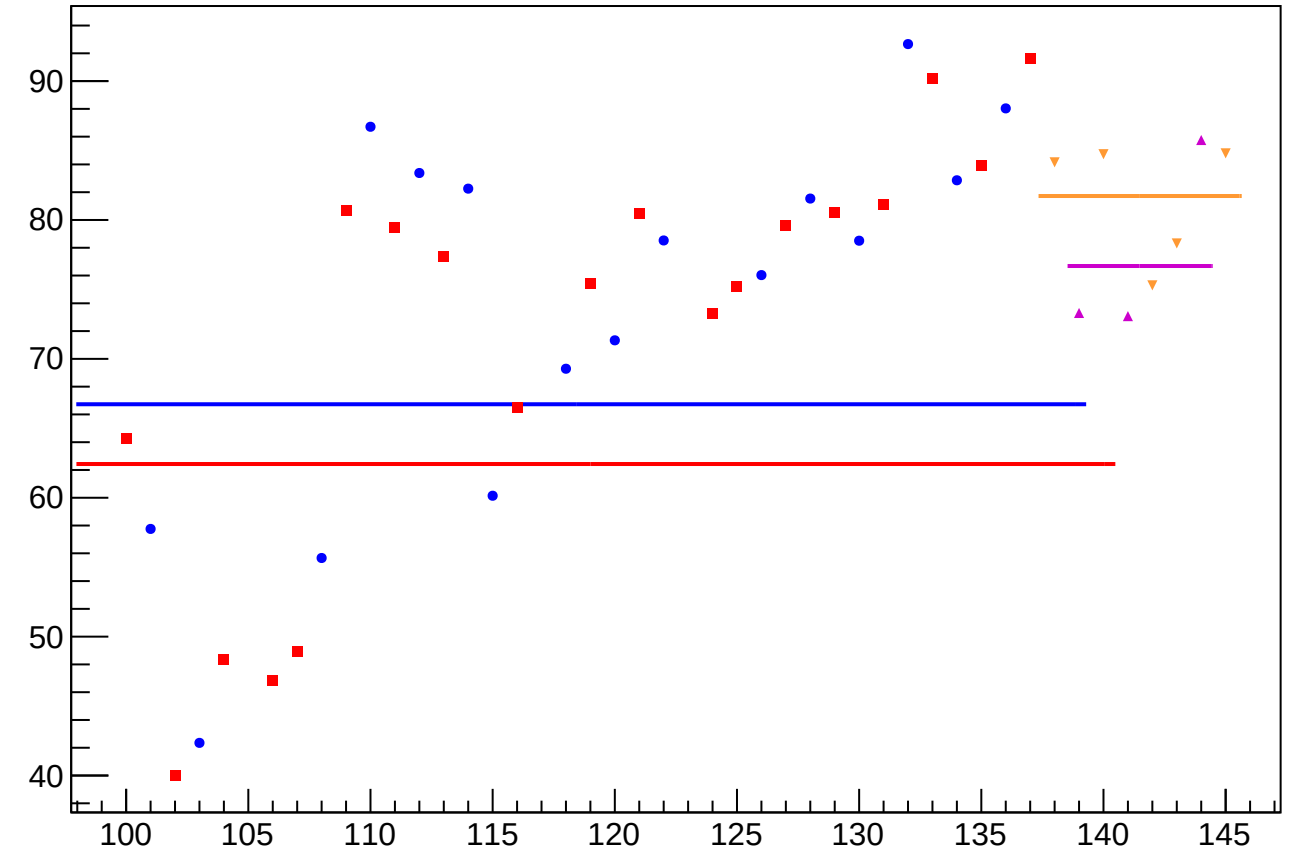
Left: -0.047+/-0.032 $\chi^2$/NDF: 4.2/7

Right: 0.030+/-0.018 $\chi^2$/NDF: 33.2/34

In: -0.012+/-0.023 $\chi^2$/NDF:18.5/18

Out: 0.033+/-0.021 $\chi^2$/NDF:21.4/23

All: 0.012+/-0.015 $\chi^2$/NDF: 42.0/42




Right In: 66.732+/-0.018 $\chi^2$/NDF: 816752.6/15

Left Out: 81.726+/-0.031 $\chi^2$/NDF:14730.4/4

Right Out: 62.429+/-0.017 $\chi^2$/NDF: 1114078.0/18

Left In: 76.686+/-0.034 $\chi^2$/NDF:27351.2/2

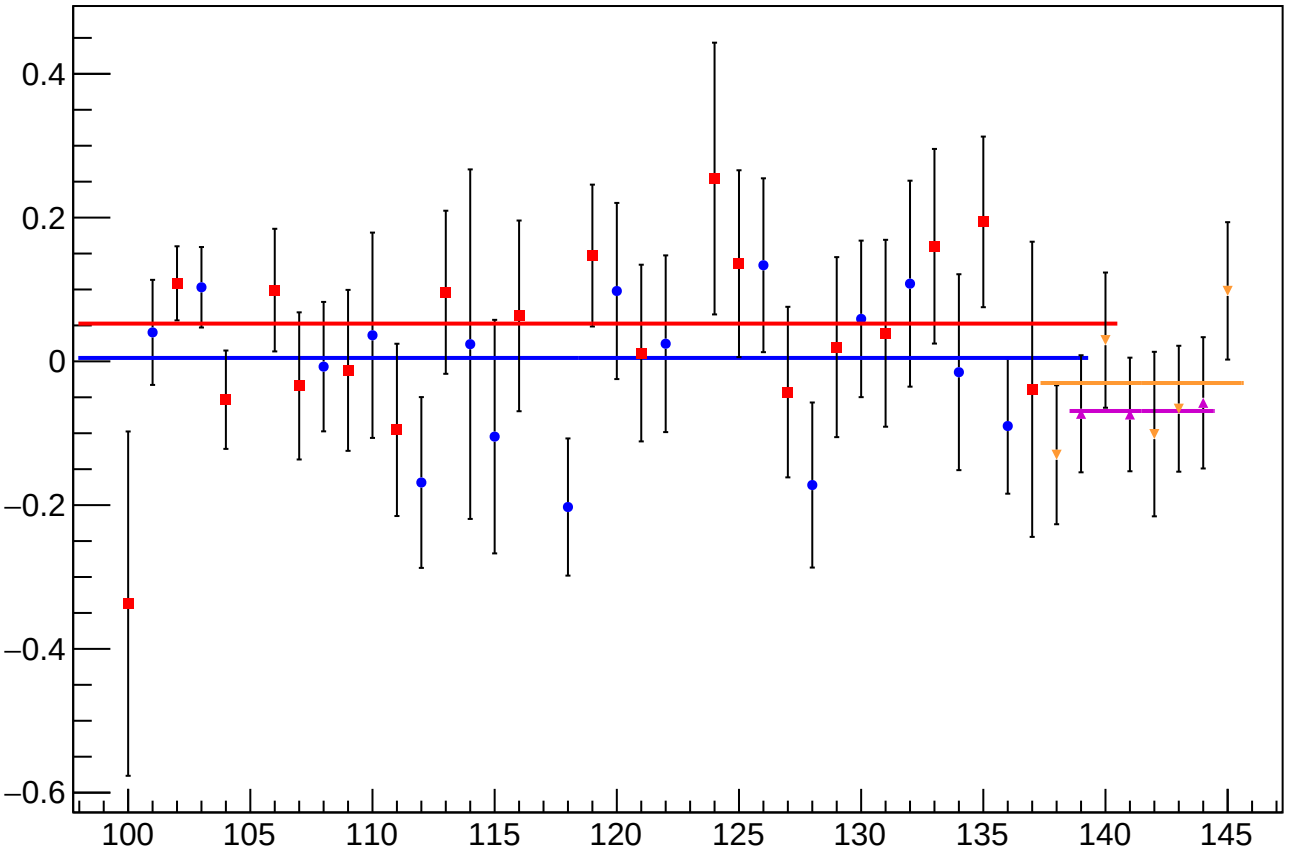
Left: 79.480+/-0.023 $\chi^2$/NDF: 54215.6/7

Right: 64.425+/-0.012 $\chi^2$/NDF: 1960436.9/34

In: 68.964+/-0.016 $\chi^2$/NDF:910332.7/18

Out: 67.008+/-0.015 $\chi^2$/NDF:1433366.2/23

All: 67.907+/-0.011 $\chi^2$/NDF: 2351643.6/42




Right In: 0.005+/-0.026 $\chi^2$/NDF: 16.6/15

Left Out: -0.030+/-0.043 $\chi^2$/NDF:3.8/4

Right Out: 0.053+/-0.024 $\chi^2$/NDF: 14.8/18

Left In: -0.069+/-0.048 $\chi^2$/NDF:0.0/2

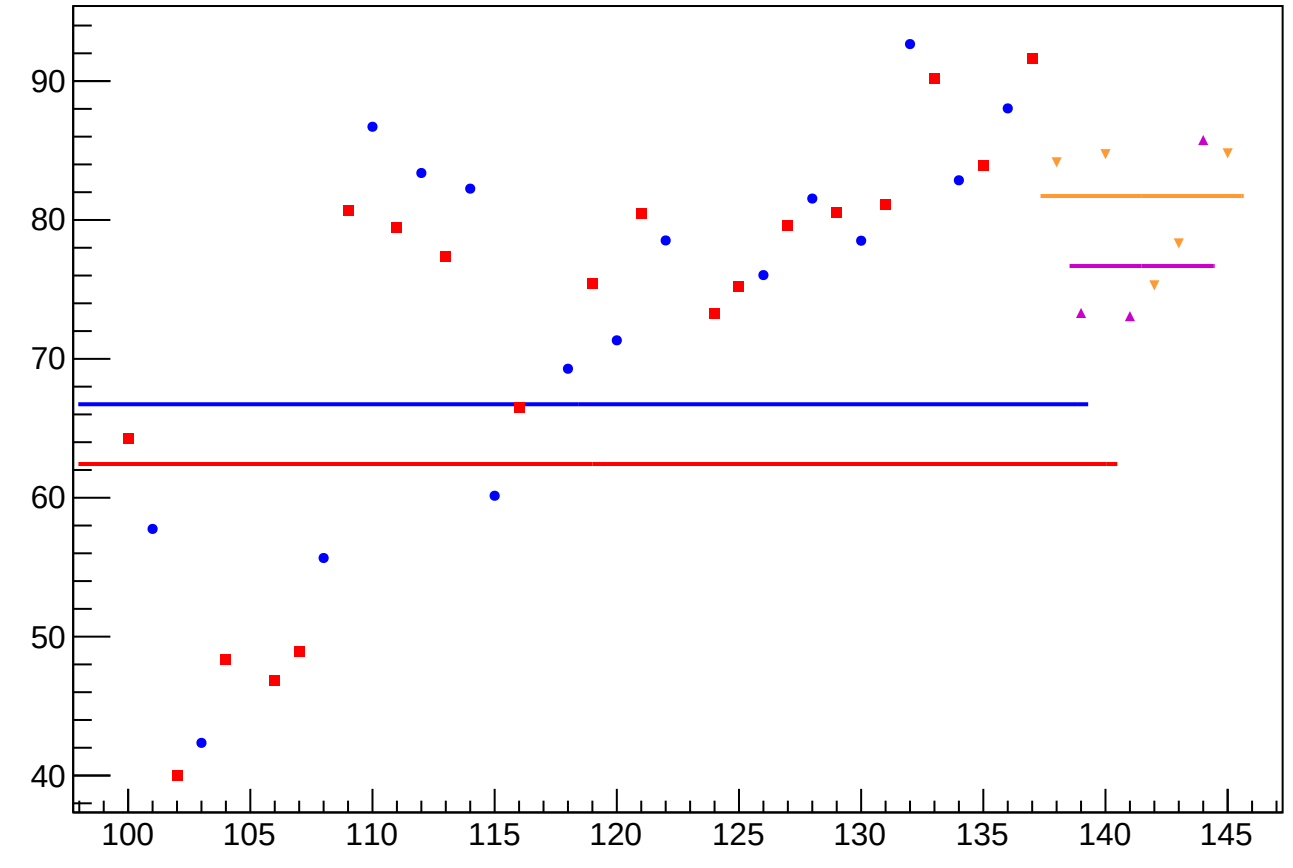
Left: -0.047+/-0.032 $\chi^2$/NDF: 4.2/7

Right: 0.030+/-0.018 $\chi^2$/NDF: 33.2/34

In: -0.012+/-0.023 $\chi^2$/NDF:18.5/18

Out: 0.033+/-0.021 $\chi^2$/NDF:21.4/23

All: 0.012+/-0.015 $\chi^2$/NDF: 42.0/42




Right In: 66.732+/-0.018 $\chi^2$/NDF: 816752.6/15

Left Out: 81.726+/-0.031 $\chi^2$/NDF:14730.4/4

Right Out: 62.429+/-0.017 $\chi^2$/NDF: 1114078.0/18

Left In: 76.686+/-0.034 $\chi^2$/NDF:27351.2/2

Left: 79.480+/-0.023 $\chi^2$/NDF: 54215.6/7

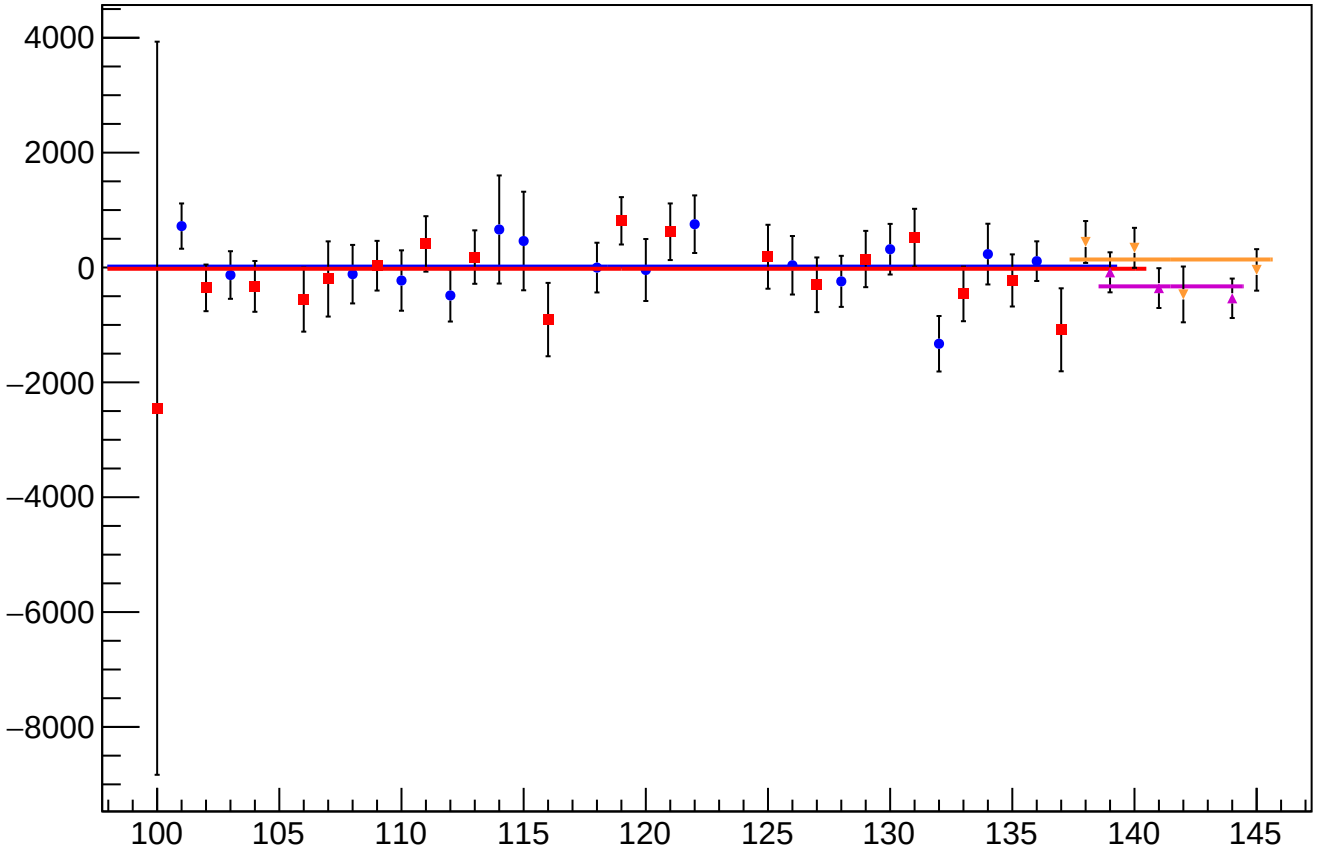
Right: 64.425+/-0.012 $\chi^2$/NDF: 1960436.9/34

In: 68.964+/-0.016 $\chi^2$/NDF:910332.7/18

Out: 67.008+/-0.015 $\chi^2$/NDF:1433366.2/23

All: 67.907+/-0.011 $\chi^2$/NDF: 2351643.6/42

# asym_dsl_mean vs Slug, Sign Corrected




Right In: 15.517+/-119.431 $\chi^2$/NDF: 16.5/15

Left Out: 139.298+/-190.105 $\chi^2$/NDF:2.9/3

Right Out: -22.145+/-119.211 $\chi^2$/NDF: 16.0/17

Left In: -328.597+/-199.867 $\chi^2$/NDF:0.9/2

Left: -82.945+/-137.746 $\chi^2$/NDF: 6.6/6

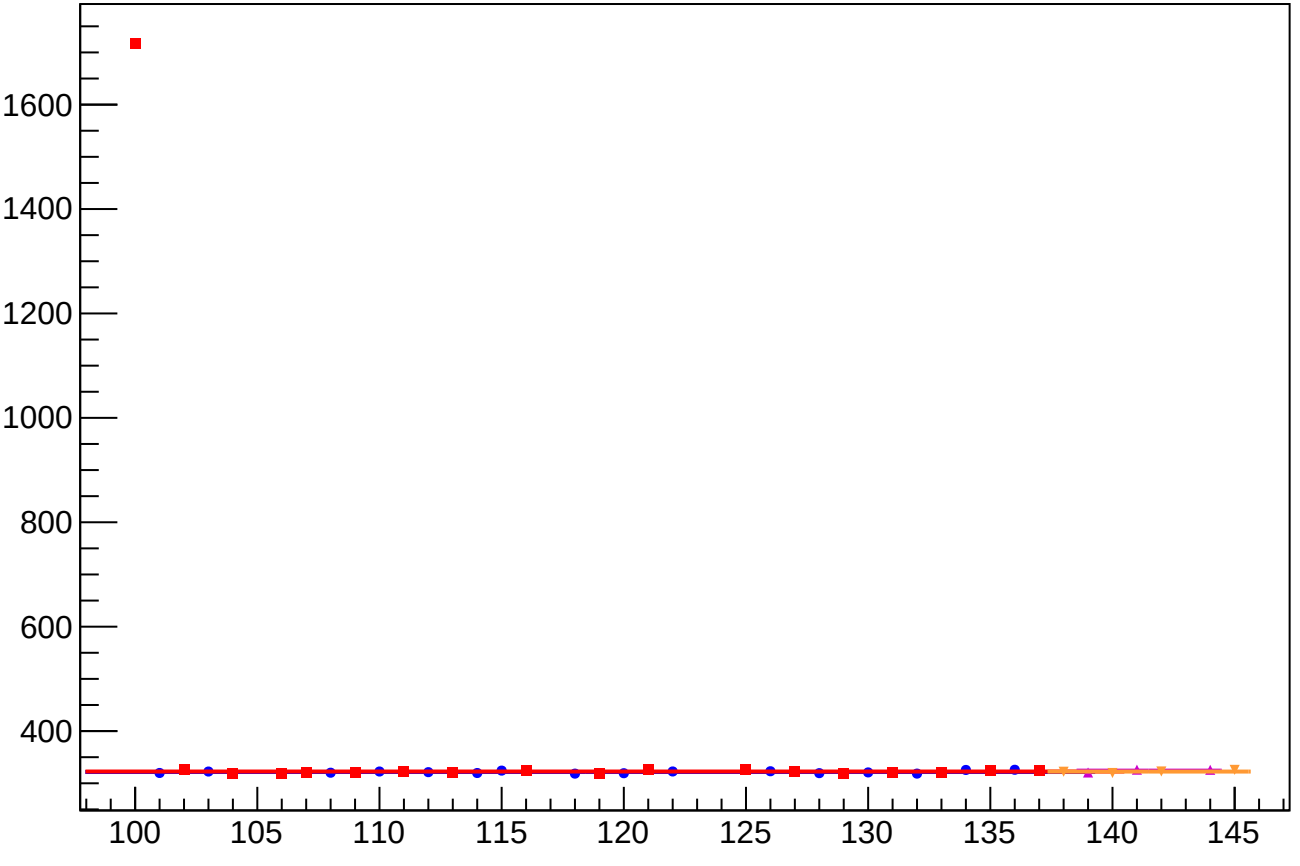
Right: -3.348+/-84.373 $\chi^2$/NDF: 32.6/33

In: -75.025+/-102.522 $\chi^2$/NDF:19.6/18

Out: 23.421+/-100.997 $\chi^2$/NDF:19.4/21

All: -25.064+/-71.949 $\chi^2$/NDF: 39.4/40

# asym_dsl_rms vs Slug, Sign Corrected




Right In: 321.604+/-0.084 $\chi^2$/NDF: 822.9/15

Left Out: 322.474+/-0.134 $\chi^2$/NDF:285.8/3

Right Out: 322.553+/-0.084 $\chi^2$/NDF: 96891.9/17

Left In: 324.255+/-0.141 $\chi^2$/NDF:309.9/2

Left: 323.320+/-0.097 $\chi^2$/NDF: 679.0/6

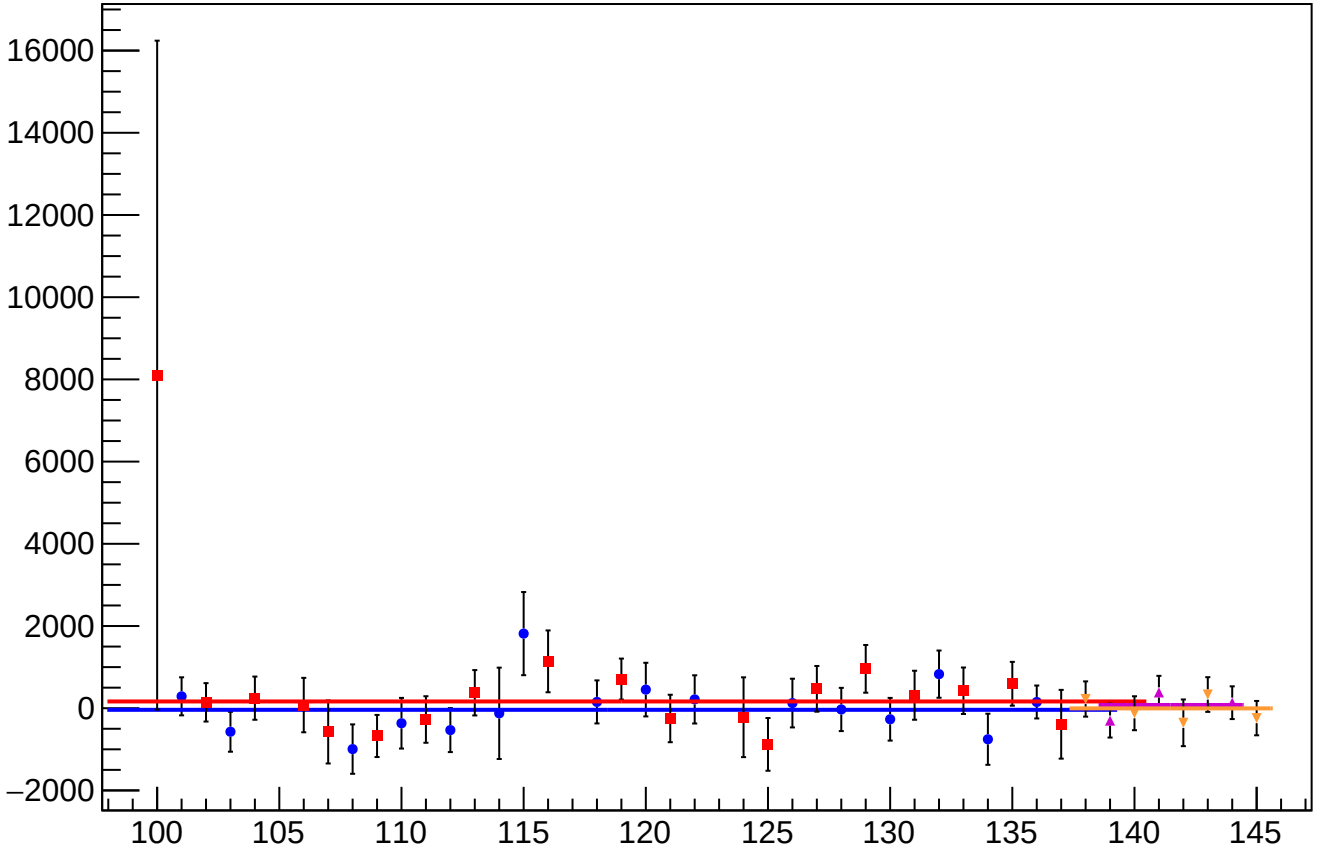
Right: 322.079+/-0.060 $\chi^2$/NDF: 97778.0/33

In: 322.302+/-0.072 $\chi^2$/NDF:1392.1/18

Out: 322.531+/-0.071 $\chi^2$/NDF:97177.9/21

All: 322.418+/-0.051 $\chi^2$/NDF: 98575.1/40

# asym_dsr_mean vs Slug, Sign Corrected




Right In: -38.914+/-140.720 $\chi^2$/NDF: 13.7/15

Left Out: -4.021+/-197.096 $\chi^2$/NDF:1.7/4

Right Out: 164.639+/-138.962 $\chi^2$/NDF: 15.1/18

Left In: 78.812+/-233.428 $\chi^2$/NDF:1.4/2

Left: 30.455+/-150.594 $\chi^2$/NDF: 3.2/7

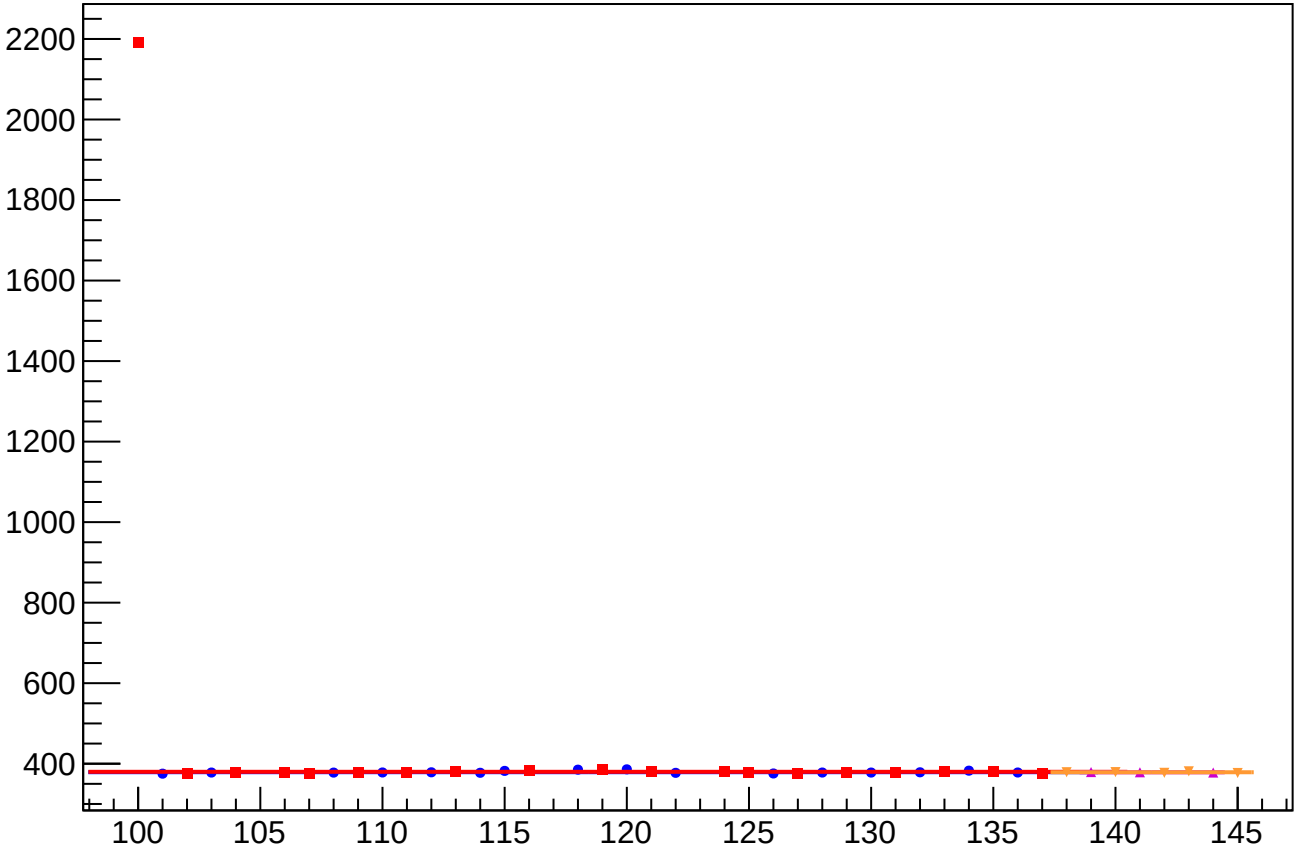
Right: 64.141+/-98.877 $\chi^2$/NDF: 29.9/34

In: -7.535+/-120.515 $\chi^2$/NDF:15.4/18

Out: 108.637+/-113.572 $\chi^2$/NDF:17.3/23

All: 53.994+/-82.653 $\chi^2$/NDF: 33.2/42

# asym_dsr_rms vs Slug, Sign Corrected




Right In: 378.910+/-0.100 $\chi^2$/NDF: 851.2/15

Left Out: 378.784+/-0.139 $\chi^2$/NDF:111.5/4

Right Out: 379.878+/-0.098 $\chi^2$/NDF: 99621.5/18

Left In: 378.695+/-0.165 $\chi^2$/NDF:8.6/2

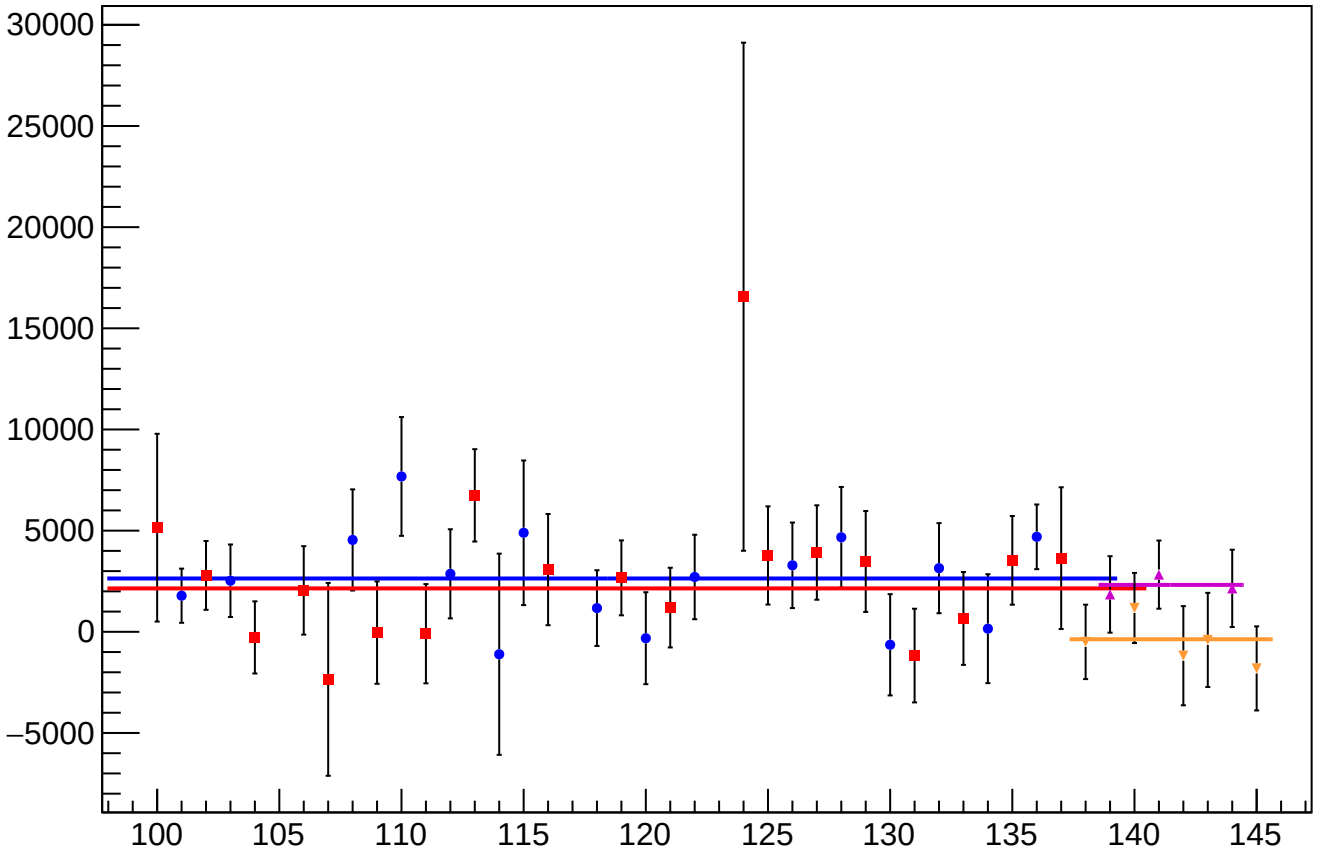
Left: 378.747+/-0.106 $\chi^2$/NDF: 120.3/7

Right: 379.400+/-0.070 $\chi^2$/NDF: 100520.6/34

In: 378.853+/-0.085 $\chi^2$/NDF:861.1/18

Out: 379.515+/-0.080 $\chi^2$/NDF:99774.1/23

All: 379.203+/-0.058 $\chi^2$/NDF: 100667.2/42




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

Left Out: -367.196+/-908.586 $\chi^2$/NDF:1.4/4

Right Out: 2144.569+/-546.963 $\chi^2$/NDF: 15.0/18

Left In: 2318.678+/-1050.495 $\chi^2$/NDF:0.2/2

Left: 782.201+/-687.205 $\chi^2$/NDF: 5.3/7

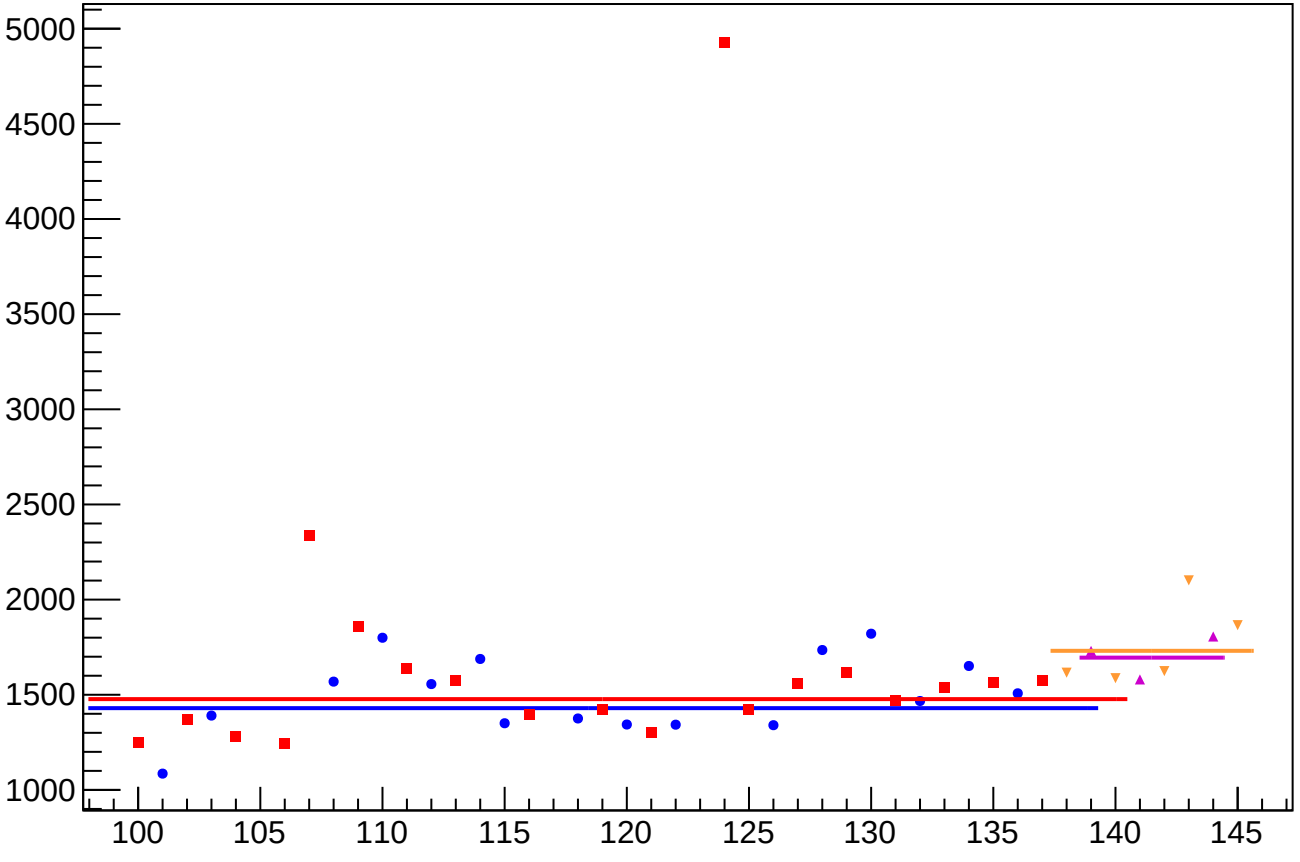
Right: 2394.022+/-383.566 $\chi^2$/NDF: 27.7/34

In: 2569.580+/-478.878 $\chi^2$/NDF:12.5/18

Out: 1476.441+/-468.604 $\chi^2$/NDF:22.0/23

All: 2011.159+/-334.927 $\chi^2$/NDF: 37.2/42

# asym_us_agg_avg_rms vs Slug, Sign Corrected




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

Left Out: 1730.927+/-0.642 $\chi^2$/NDF:84392.7/4

Right Out: 1477.126+/-0.387 $\chi^2$/NDF: 369430.6/18

Left In: 1695.058+/-0.743 $\chi^2$/NDF:16693.9/2

Left: 1715.577+/-0.486 $\chi^2$/NDF: 102420.5/7

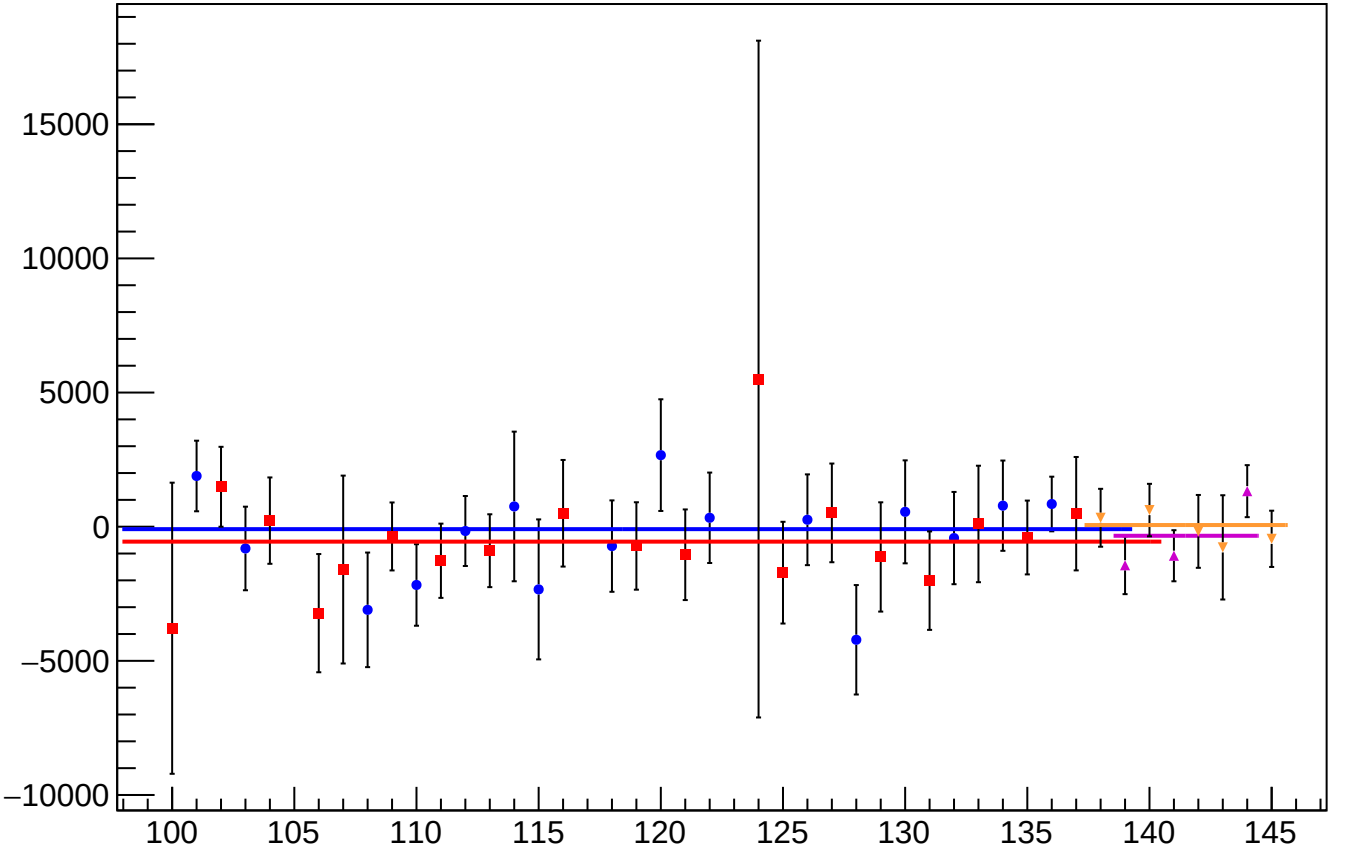
Right: 1452.999+/-0.271 $\chi^2$/NDF: 670475.8/34

In: 1484.807+/-0.339 $\chi^2$/NDF:411214.2/18

Out: 1544.637+/-0.331 $\chi^2$/NDF:568369.7/23

All: 1515.371+/-0.237 $\chi^2$/NDF: 995531.8/42

# asym_us_agg_dd_mean vs Slug, Sign Corrected




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

Left Out: 61.793+/-525.420 $\chi^2$/NDF:0.8/4

Right Out: -556.840+/-411.346 $\chi^2$/NDF: 6.8/18

Left In: -338.168+/-574.464 $\chi^2$/NDF:4.6/2

Left: -120.389+/-387.709 $\chi^2$/NDF: 5.7/7

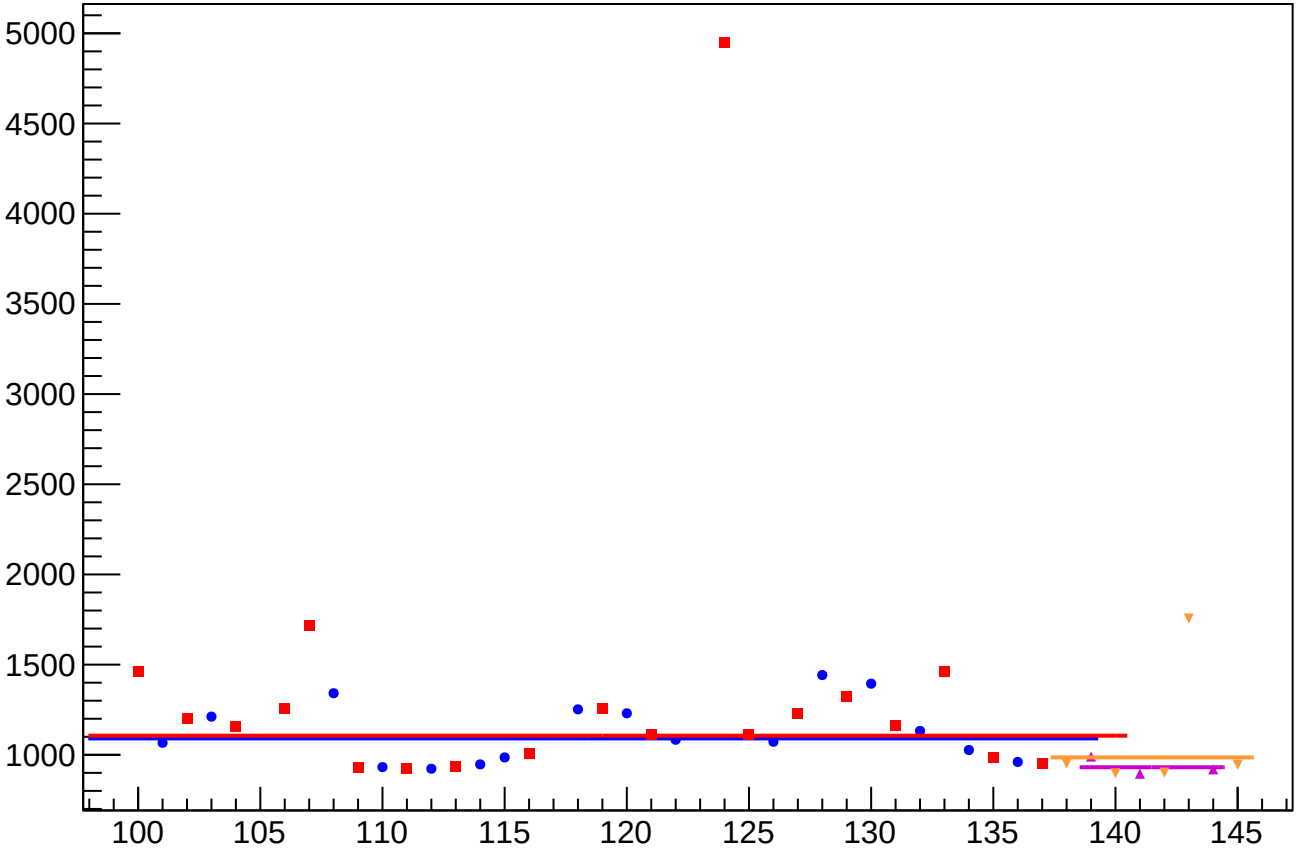
Right: -323.285+/-290.373 $\chi^2$/NDF: 21.9/34

In: -174.604+/-333.698 $\chi^2$/NDF:19.3/18

Out: -321.757+/-323.893 $\chi^2$/NDF:8.5/23

All: -250.374+/-232.416 $\chi^2$/NDF: 27.8/42

# asym_us_agg_dd_rms vs Slug, Sign Corrected




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

Left Out: 985.691+/-0.372 $\chi^2$/NDF:342787.8/4

Right Out: 1106.046+/-0.291 $\chi^2$/NDF: 514097.9/18

Left In: 931.003+/-0.406 $\chi^2$/NDF:9138.7/2

Left: 960.780+/-0.274 $\chi^2$/NDF: 361796.0/7

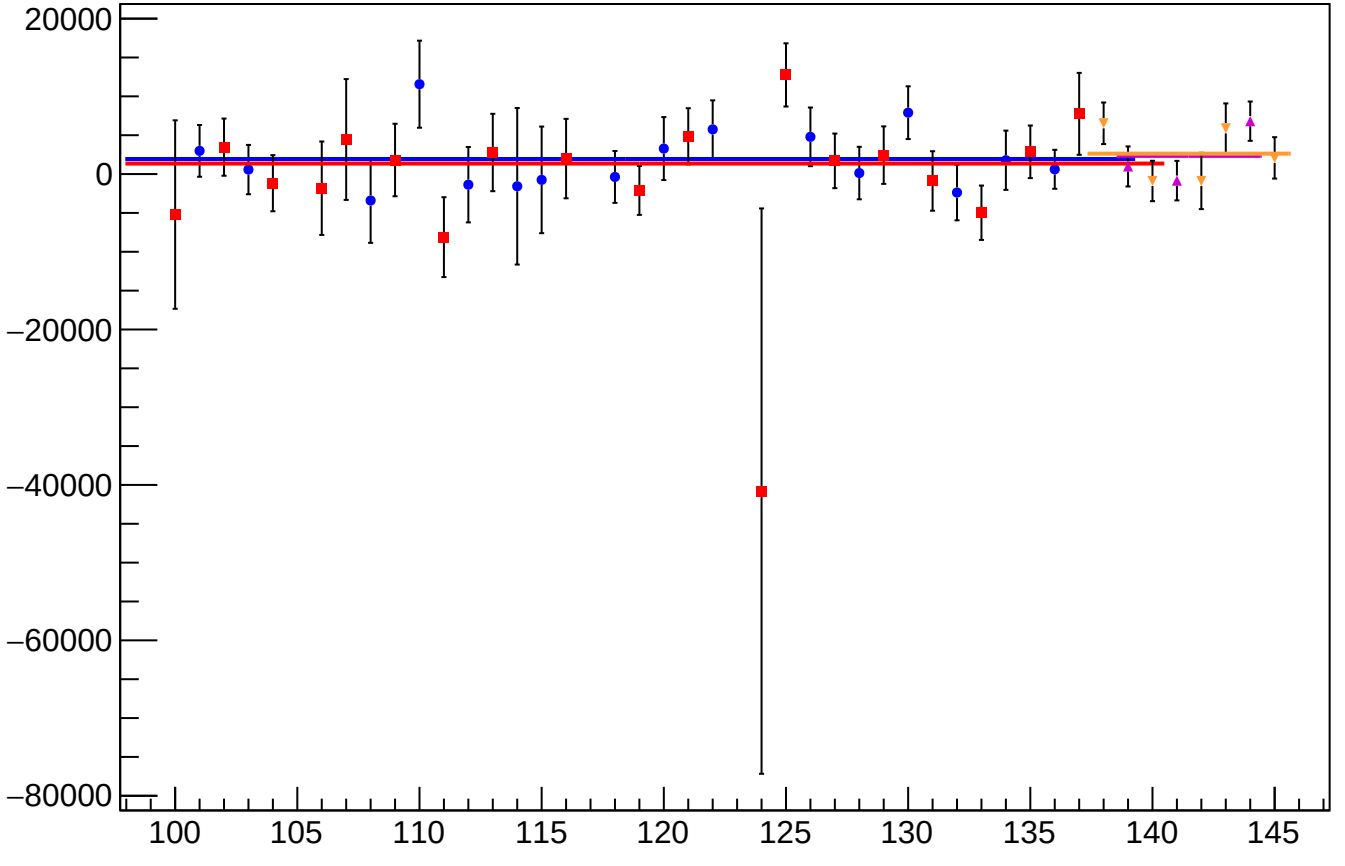
Right: 1098.518+/-0.205 $\chi^2$/NDF: 792737.9/34

In: 1037.039+/-0.236 $\chi^2$/NDF:389289.2/18

Out: 1060.311+/-0.229 $\chi^2$/NDF:921948.4/23

All: 1049.022+/-0.164 $\chi^2$/NDF: 1316246.0/42

# reg_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1939.656+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 2625.524+/-1288.410 $\chi^2$/NDF:6.0/4

Right Out: 1353.428+/-985.119 $\chi^2$/NDF: 21.8/18

Left In: 2339.263+/-1471.866 $\chi^2$/NDF:5.0/2

Left: 2501.335+/-969.455 $\chi^2$/NDF: 11.0/7

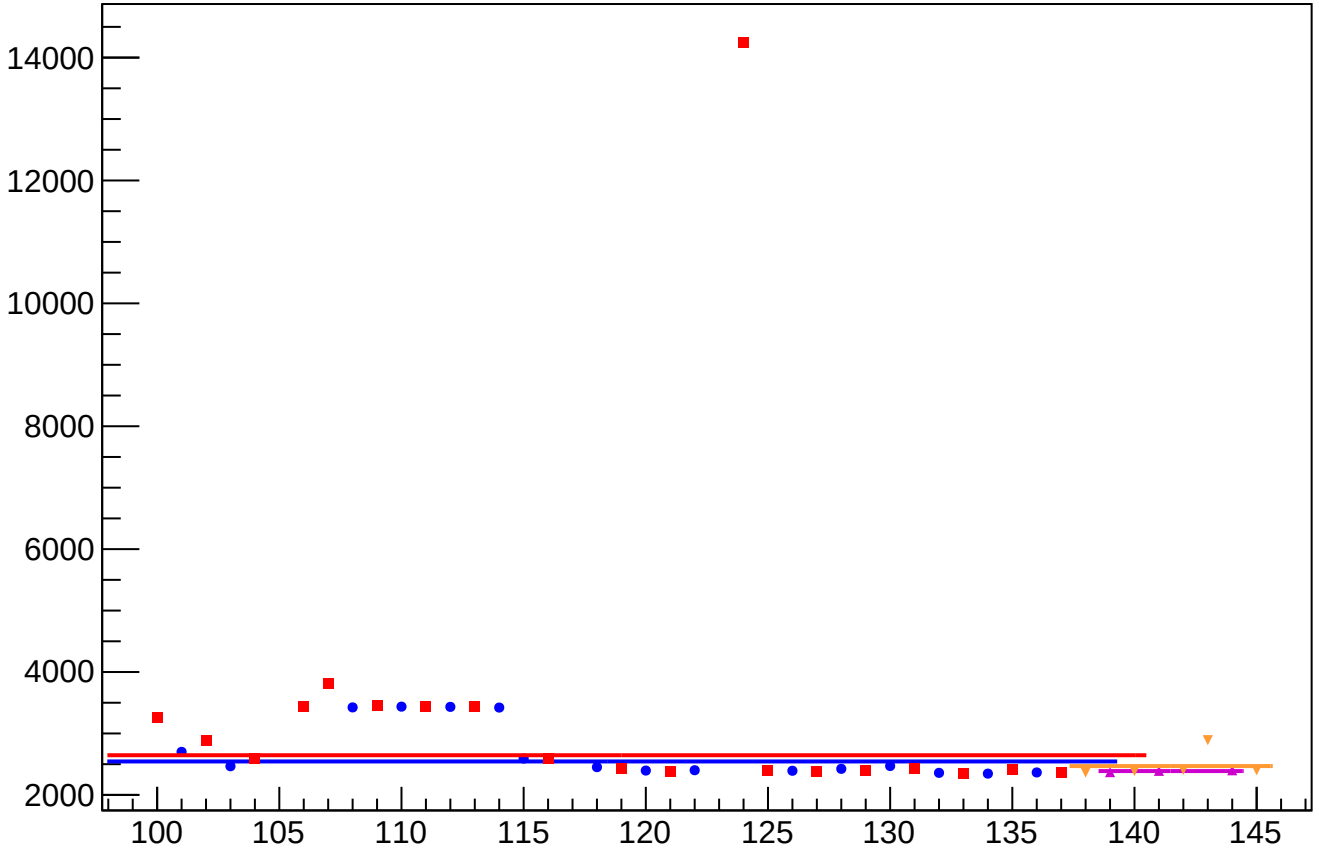
Right: 1656.397+/-684.775 $\chi^2$/NDF: 34.2/34

In: 2057.616+/-799.684 $\chi^2$/NDF:17.3/18

Out: 1822.745+/-782.577 $\chi^2$/NDF:28.4/23

All: 1937.641+/-559.316 $\chi^2$/NDF: 45.7/42

# reg_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2469.240+/-0.911 $\chi^2$/NDF:41616.0/4

Right Out: 2645.647+/-0.697 $\chi^2$/NDF: 536965.2/18

Left In: 2387.891+/-1.041 $\chi^2$/NDF:148.4/2

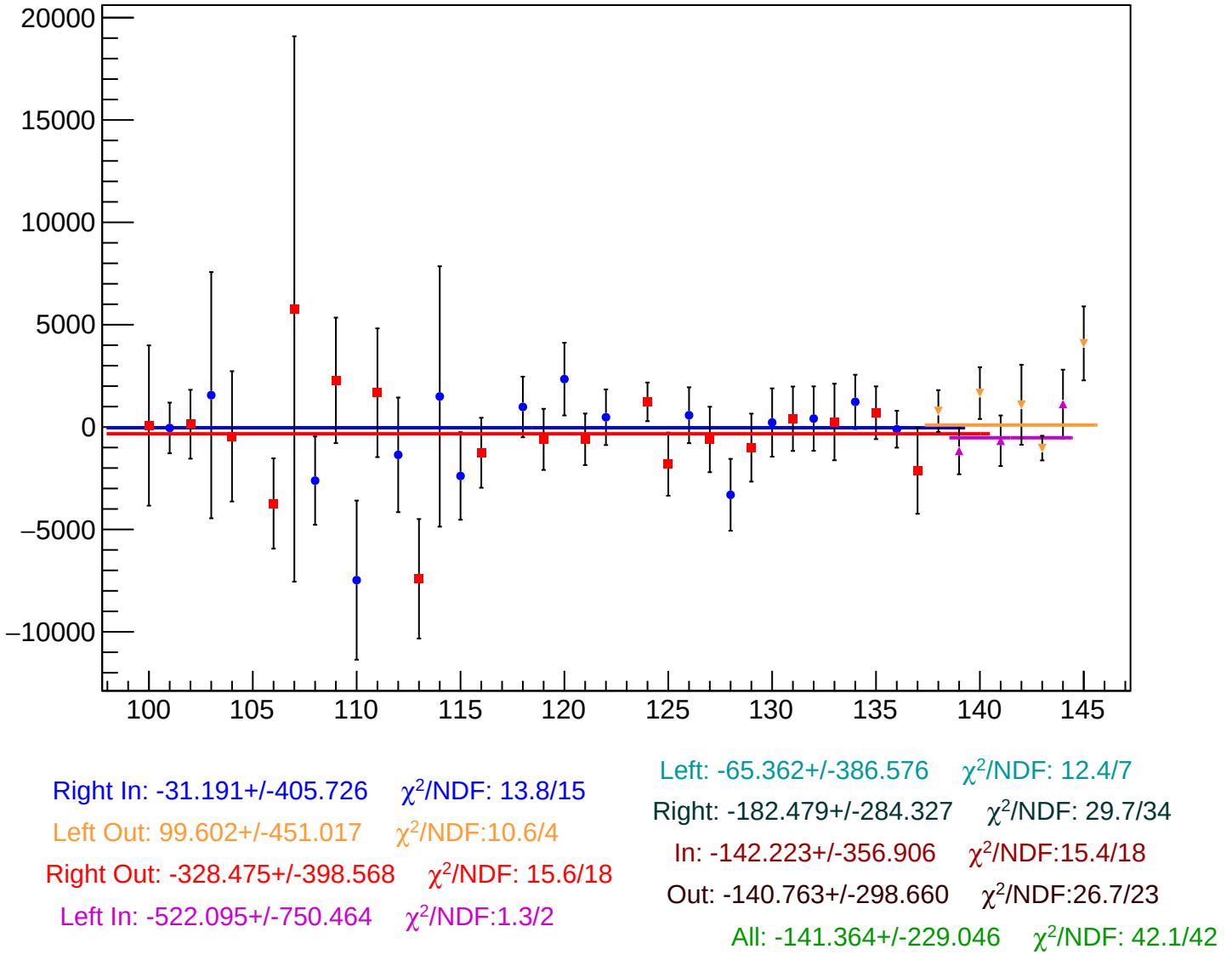
Left: 2433.948+/-0.686 $\chi^2$/NDF: 45223.3/7

Right: 2593.330+/-0.484 $\chi^2$/NDF: 773493.8/34

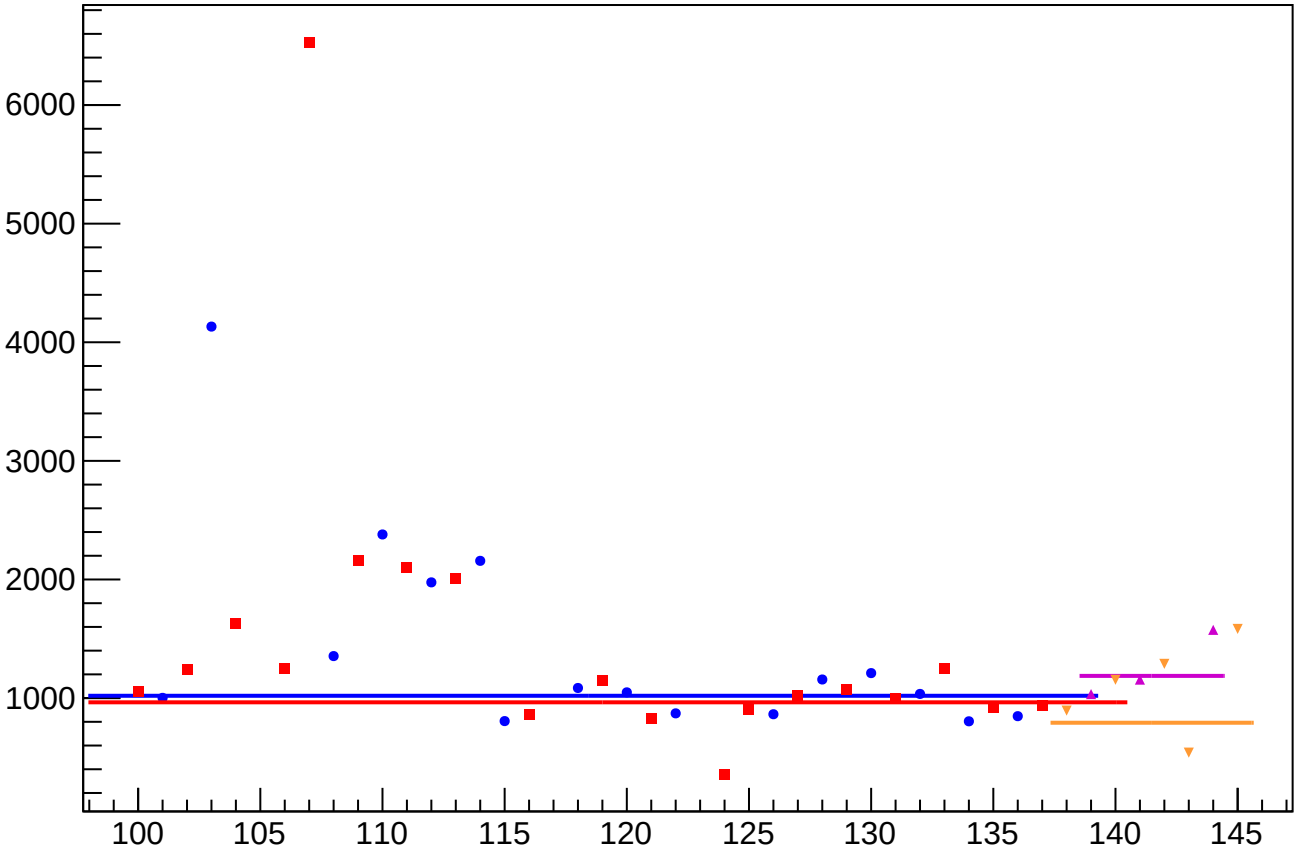
In: 2498.211+/-0.565 $\chi^2$/NDF:241704.1/18

Out: 2580.565+/-0.553 $\chi^2$/NDF:602242.0/23

All: 2540.278+/-0.395 $\chi^2$/NDF: 854780.7/42


asym_atl1_reg_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -31.191+/-405.726 χ²/NDF: 13.8/15
Left Out: 99.602+/-451.017 χ²/NDF:10.6/4
Right Out: -328.475+/-398.568 χ²/NDF: 15.6/18
Left In: -522.095+/-750.464 χ²/NDF:1.3/2
Left: -65.362+/-386.576 χ²/NDF: 12.4/7
Right: -182.479+/-284.327 χ²/NDF: 29.7/34
In: -142.223+/-356.906 χ²/NDF:15.4/18
Out: -140.763+/-298.660 χ²/NDF:26.7/23
All: -141.364+/-229.046 χ²/NDF: 42.1/42

# asym_atl1_reg_correction_rms vs Slug, Sign Corrected




Right In: 1019.523+/-0.287 $\chi^2$/NDF: 1364745.9/15

Left Out: 792.222+/-0.319 $\chi^2$/NDF:1048033.7/4

Right Out: 964.379+/-0.282 $\chi^2$/NDF: 2309359.3/18

Left In: 1187.212+/-0.531 $\chi^2$/NDF:144494.4/2

Left: 897.030+/-0.273 $\chi^2$/NDF: 1599559.6/7

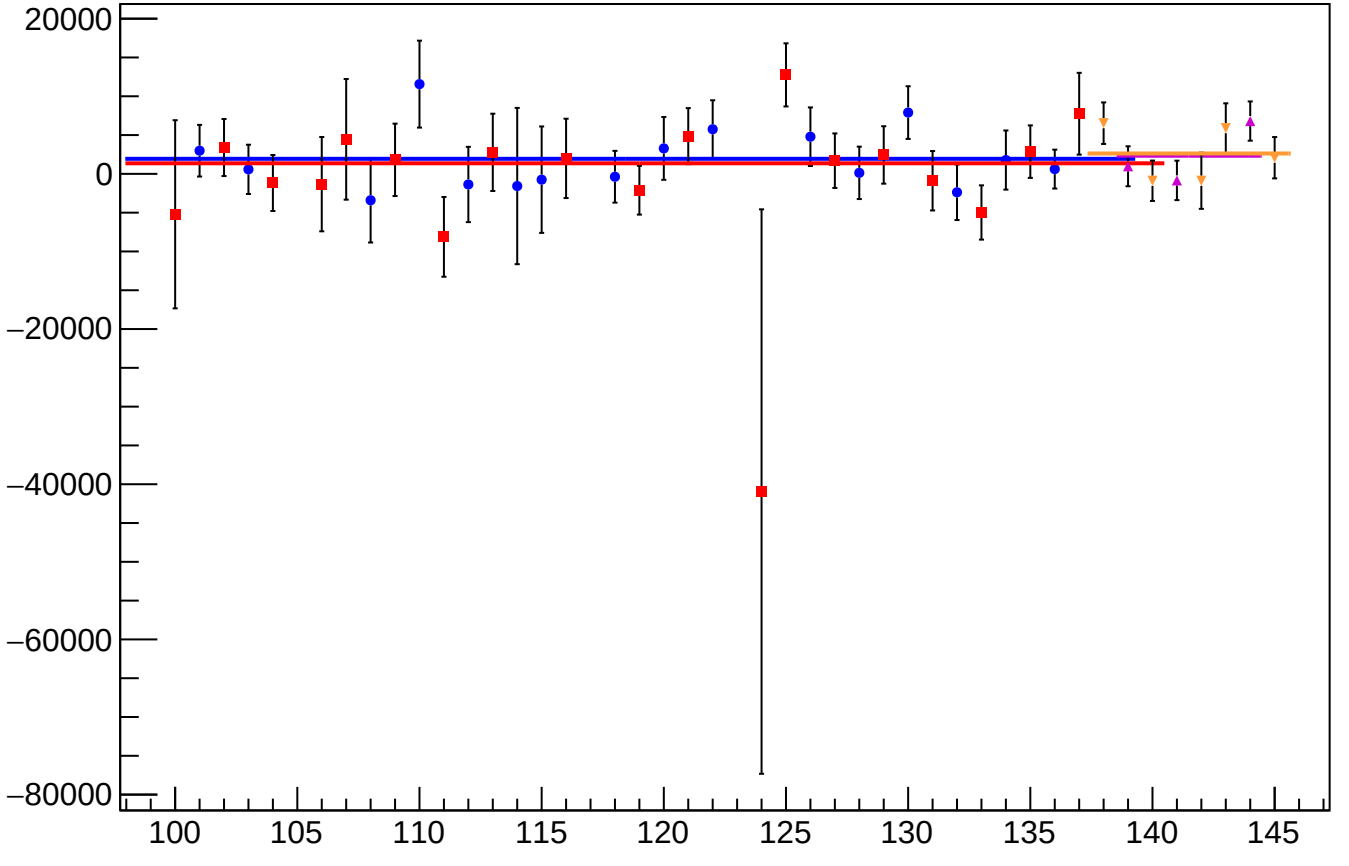
Right: 991.460+/-0.201 $\chi^2$/NDF: 3692906.6/34

In: 1057.450+/-0.252 $\chi^2$/NDF:1586512.6/18

Out: 888.888+/-0.211 $\chi^2$/NDF:3521016.4/23

All: 958.310+/-0.162 $\chi^2$/NDF: 5369910.4/42

# cor_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1940.005+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 2625.638+/-1288.410 $\chi^2$/NDF:6.0/4

Right Out: 1363.089+/-985.420 $\chi^2$/NDF: 21.7/18

Left In: 2339.479+/-1471.866 $\chi^2$/NDF:5.0/2

Left: 2501.494+/-969.455 $\chi^2$/NDF: 11.0/7

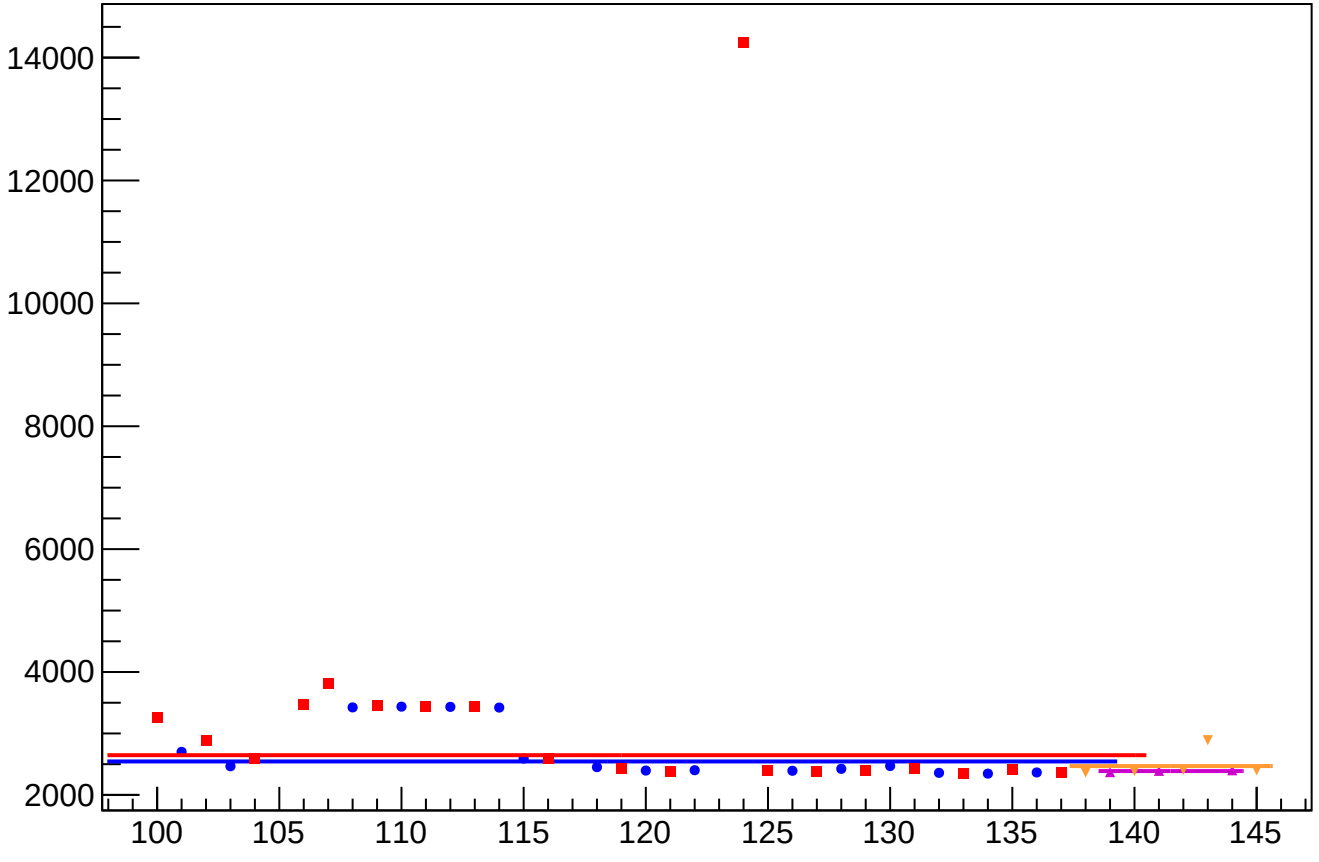
Right: 1661.333+/-684.876 $\chi^2$/NDF: 34.1/34

In: 2057.925+/-799.684 $\chi^2$/NDF:17.3/18

Out: 1829.063+/-782.728 $\chi^2$/NDF:28.3/23

All: 1941.042+/-559.371 $\chi^2$/NDF: 45.6/42

# cor_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2469.240+/-0.911 $\chi^2$/NDF:41616.0/4

Right Out: 2646.203+/-0.697 $\chi^2$/NDF: 539546.8/18

Left In: 2387.891+/-1.041 $\chi^2$/NDF:148.4/2

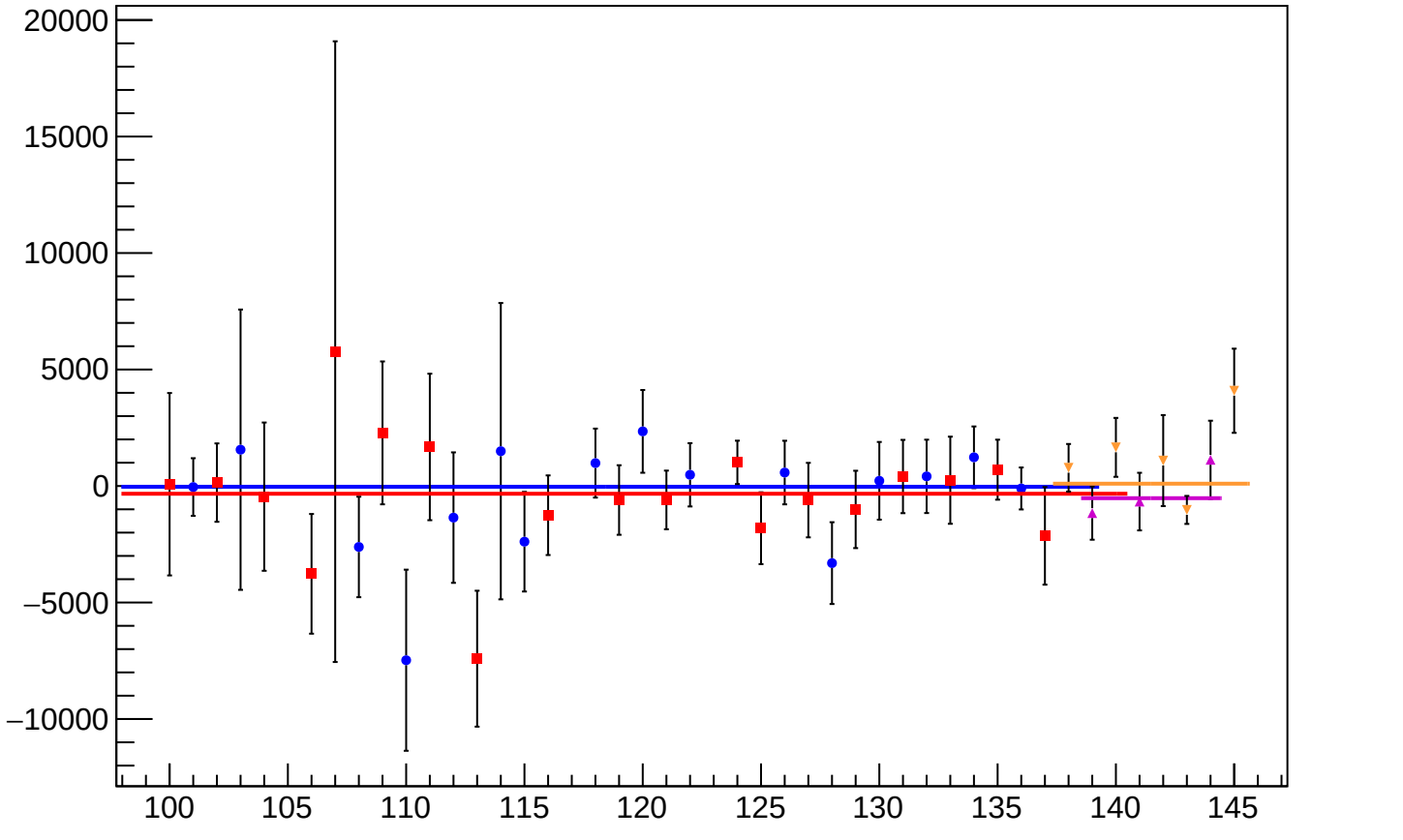
Left: 2433.948+/-0.686 $\chi^2$/NDF: 45223.3/7

Right: 2593.583+/-0.484 $\chi^2$/NDF: 776192.2/34

In: 2498.211+/-0.565 $\chi^2$/NDF:241704.1/18

Out: 2580.890+/-0.553 $\chi^2$/NDF:604967.7/23

All: 2540.437+/-0.396 $\chi^2$/NDF: 857590.3/42




Right In: -31.253+/-405.723 $\chi^2$/NDF: 13.8/15

Left Out: 99.761+/-451.031 $\chi^2$/NDF:10.6/4

Right Out: -331.962+/-399.334 $\chi^2$/NDF: 14.4/18

Left In: -522.016+/-750.465 $\chi^2$/NDF:1.3/2

Left: -65.232+/-386.585 $\chi^2$/NDF: 12.4/7

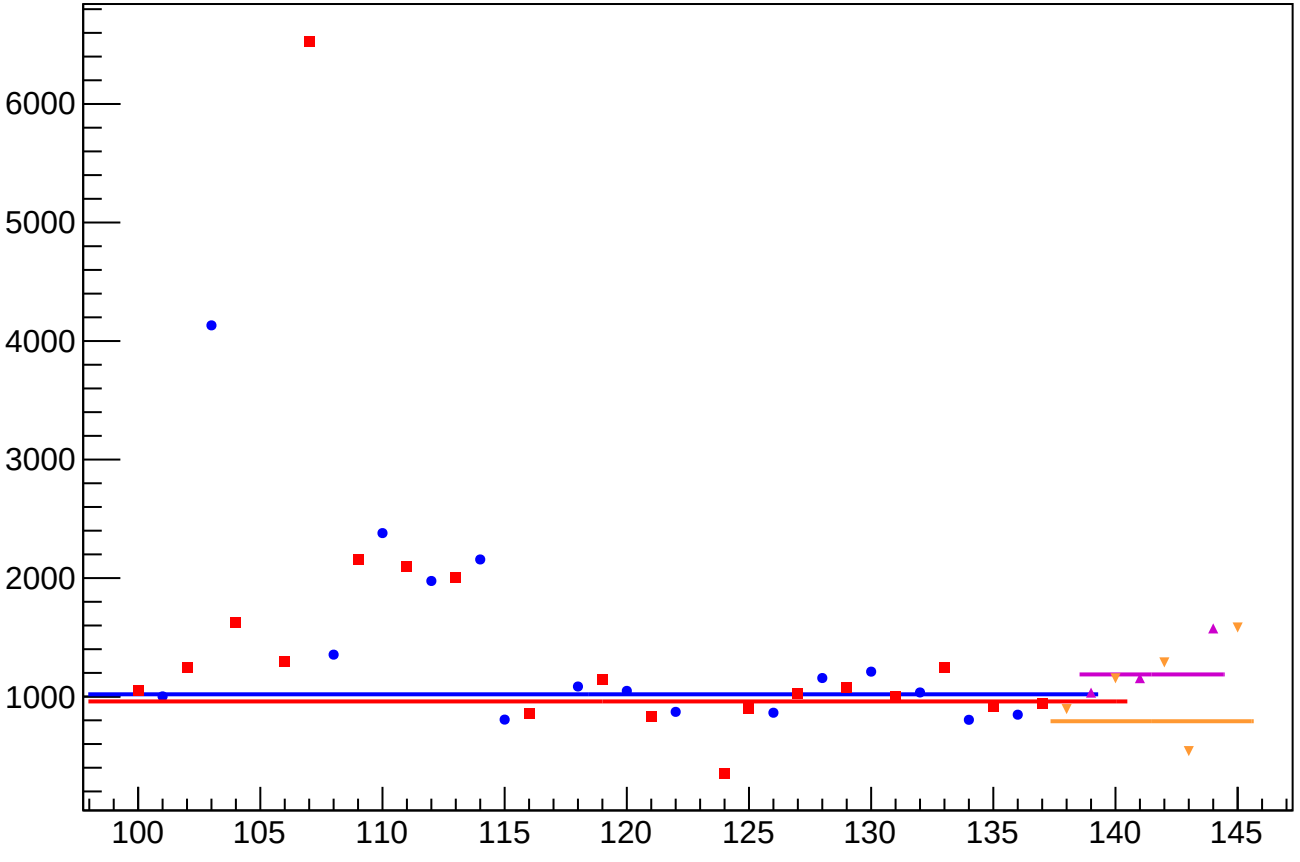
Right: -183.994+/-284.604 $\chi^2$/NDF: 28.5/34

In: -142.251+/-356.904 $\chi^2$/NDF:15.4/18

Out: -142.250+/-298.986 $\chi^2$/NDF:25.5/23

All: -142.250+/-229.192 $\chi^2$/NDF: 40.9/42

# asym_atl1_cor_correction_rms vs Slug, Sign Corrected




Right In: 1019.514+/-0.287 $\chi^2$/NDF: 1364741.0/15

Left Out: 792.255+/-0.319 $\chi^2$/NDF:1047928.7/4

Right Out: 959.344+/-0.282 $\chi^2$/NDF: 2344434.8/18

Left In: 1187.212+/-0.531 $\chi^2$/NDF:144494.2/2

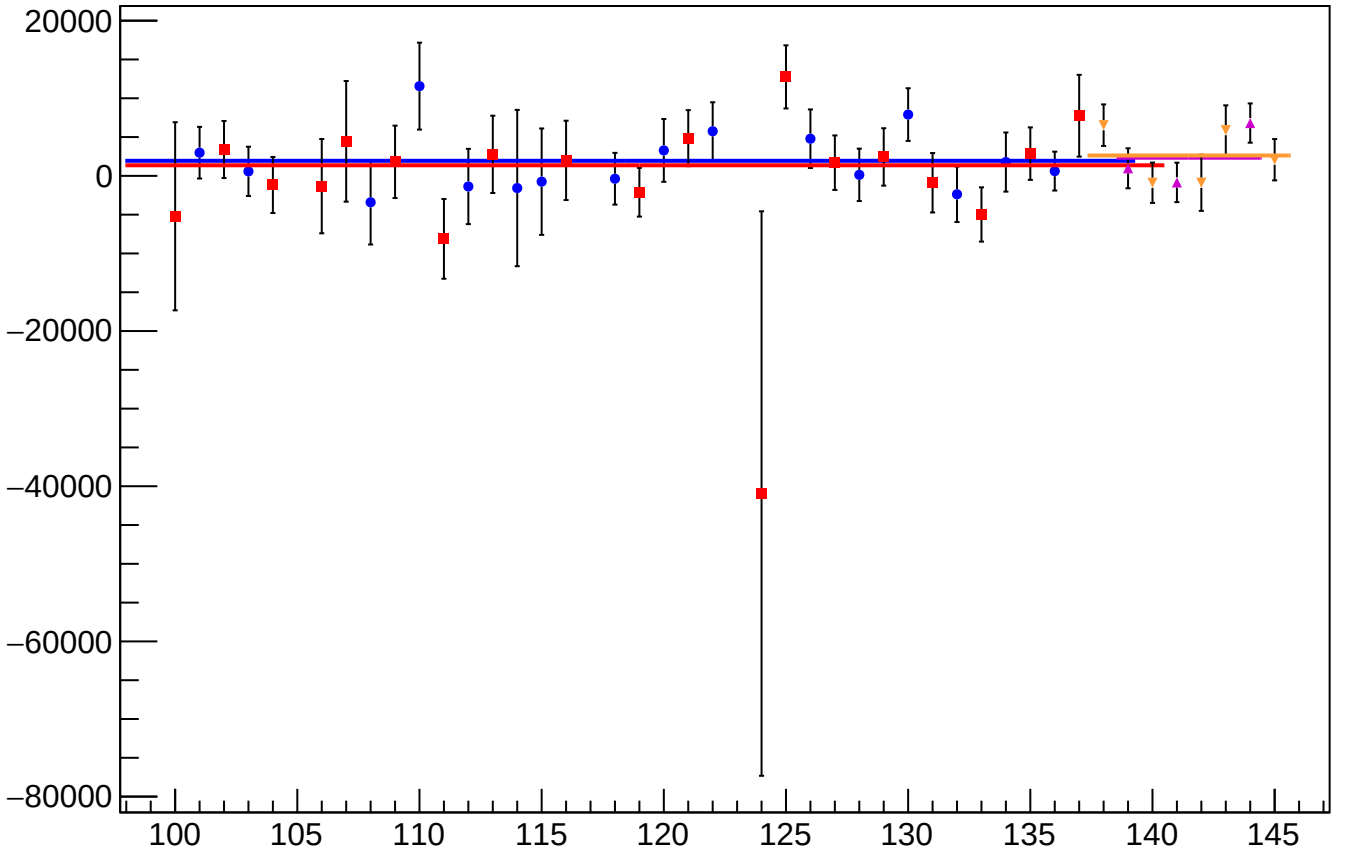
Left: 897.059+/-0.273 $\chi^2$/NDF: 1599378.9/7

Right: 988.952+/-0.201 $\chi^2$/NDF: 3731518.7/34

In: 1057.443+/-0.252 $\chi^2$/NDF:1586515.6/18

Out: 885.920+/-0.211 $\chi^2$/NDF:3546230.2/23

All: 956.653+/-0.162 $\chi^2$/NDF: 5404183.1/42




Right In: 1940.005+/-952.537 $\chi^2$/NDF: 12.2/15

Left Out: 2625.638+/-1288.410 $\chi^2$/NDF:6.0/4

Right Out: 1363.089+/-985.420 $\chi^2$/NDF: 21.7/18

Left In: 2339.479+/-1471.866 $\chi^2$/NDF:5.0/2

Left: 2501.494+/-969.455 $\chi^2$/NDF: 11.0/7

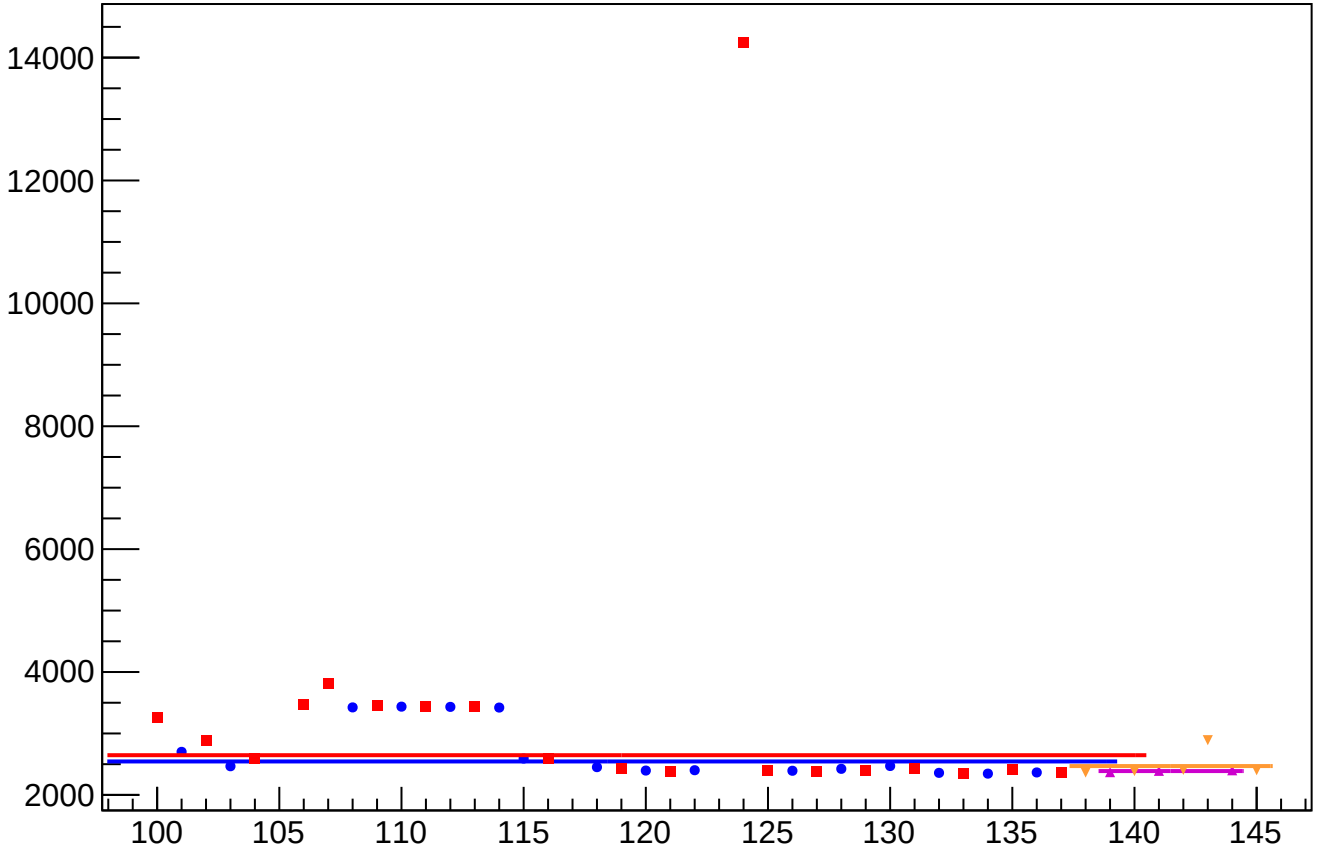
Right: 1661.333+/-684.876 $\chi^2$/NDF: 34.1/34

In: 2057.925+/-799.684 $\chi^2$/NDF:17.3/18

Out: 1829.063+/-782.728 $\chi^2$/NDF:28.3/23

All: 1941.042+/-559.371 $\chi^2$/NDF: 45.6/42

# eigen_cor_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2544.416+/-0.674 $\chi^2$/NDF: 225614.0/15

Left Out: 2469.240+/-0.911 $\chi^2$/NDF:41616.0/4

Right Out: 2646.203+/-0.697 $\chi^2$/NDF: 539546.8/18

Left In: 2387.891+/-1.041 $\chi^2$/NDF:148.4/2

Left: 2433.948+/-0.686 $\chi^2$/NDF: 45223.3/7

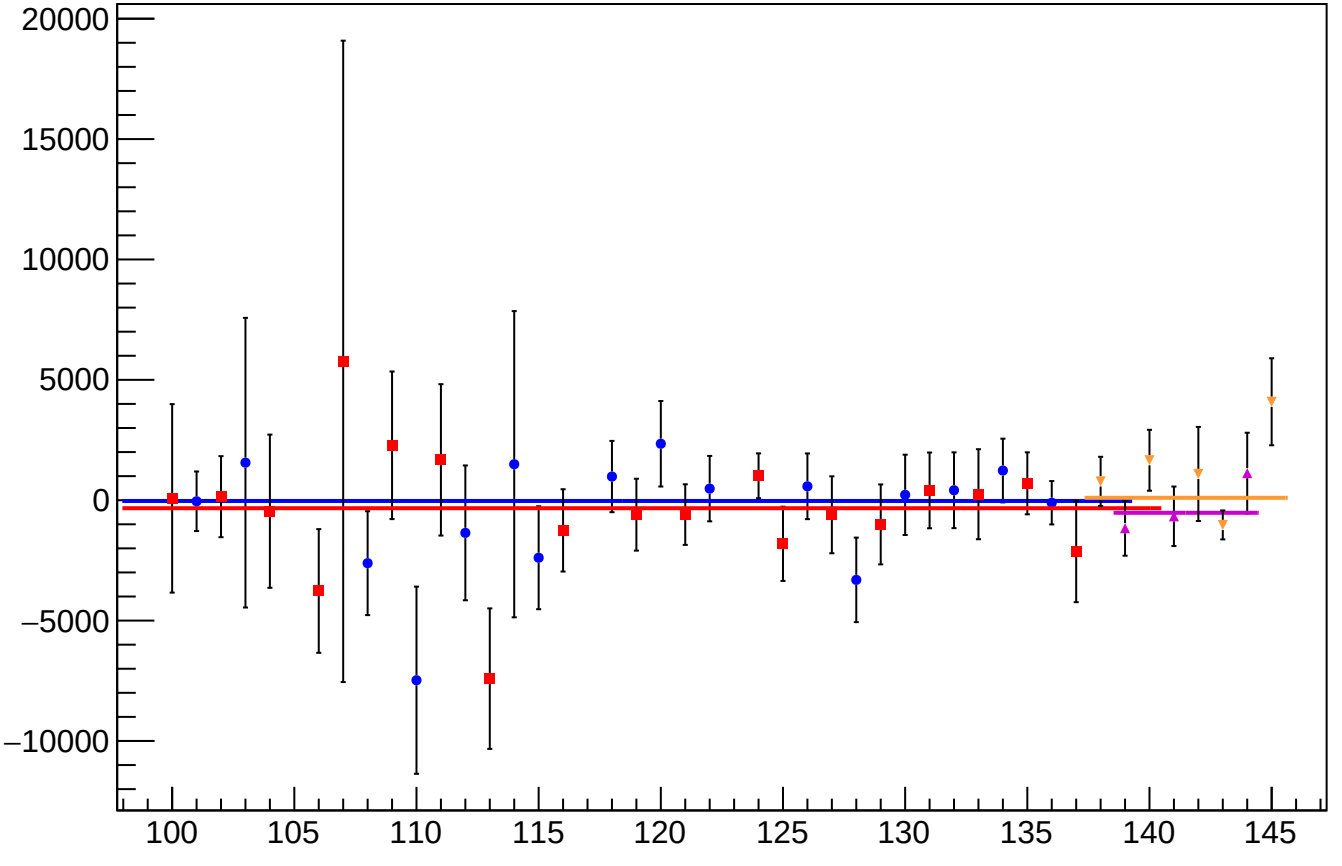
Right: 2593.583+/-0.484 $\chi^2$/NDF: 776192.2/34

In: 2498.211+/-0.565 $\chi^2$/NDF:241704.1/18

Out: 2580.890+/-0.553 $\chi^2$/NDF:604967.7/23

All: 2540.437+/-0.396 $\chi^2$/NDF: 857590.3/42

asym_atl1_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -31.253+/-405.723 $\chi^2$/NDF: 13.8/15

Left Out: 99.761+/-451.031 $\chi^2$/NDF:10.6/4

Right Out: -331.962+/-399.334 $\chi^2$/NDF: 14.4/18

Left In: -522.016+/-750.465 $\chi^2$/NDF:1.3/2

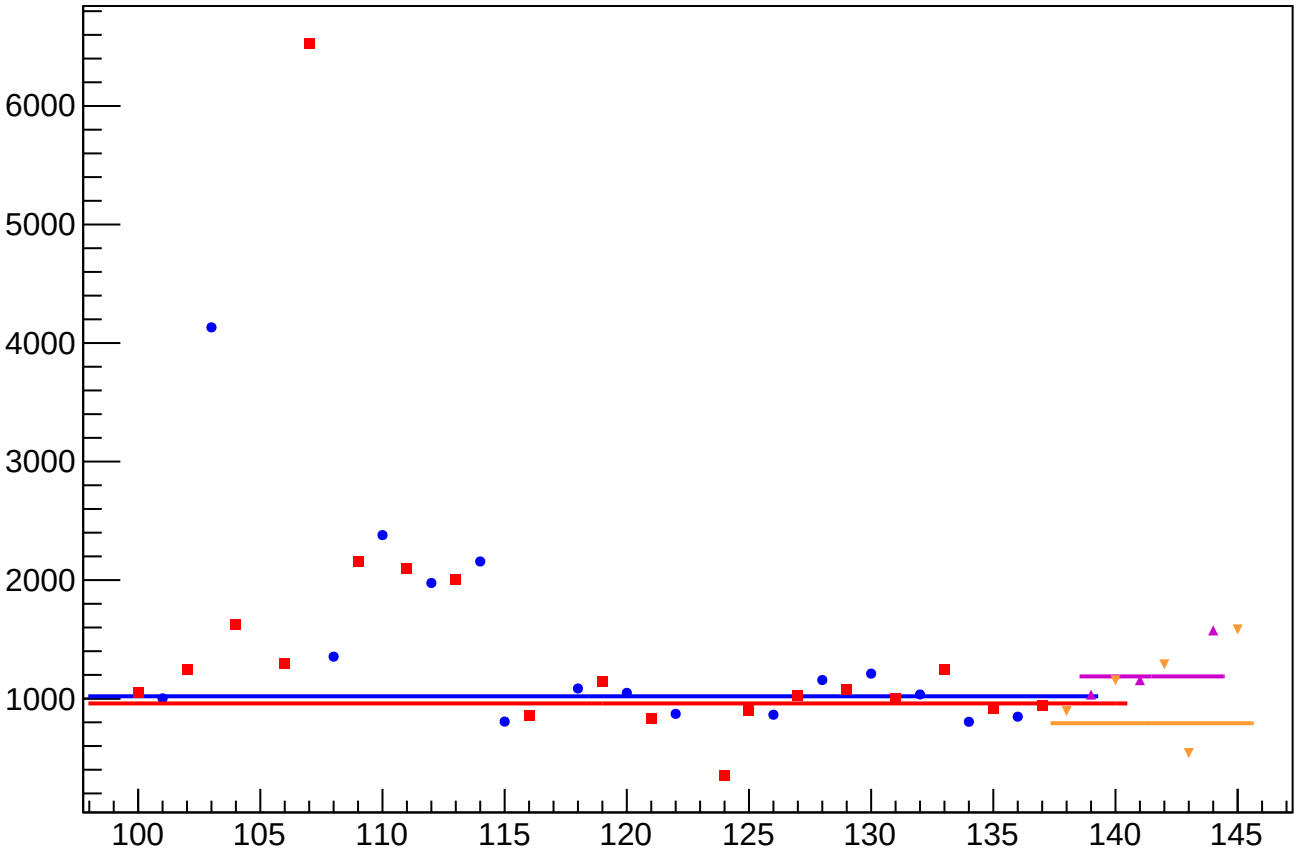
Left: -65.232+/-386.585 $\chi^2$/NDF: 12.4/7

Right: -183.994+/-284.604 $\chi^2$/NDF: 28.5/34

In: -142.251+/-356.904 $\chi^2$/NDF:15.4/18

Out: -142.250+/-298.986 $\chi^2$/NDF:25.5/23

All: -142.250+/-229.192 $\chi^2$/NDF: 40.9/42




Right In: 1019.514+/-0.287 $\chi^2$/NDF: 1364741.0/15

Left Out: 792.255+/-0.319 $\chi^2$/NDF:1047928.7/4

Right Out: 959.344+/-0.282 $\chi^2$/NDF: 2344434.8/18

Left In: 1187.212+/-0.531 $\chi^2$/NDF:144494.2/2

Left: 897.059+/-0.273 $\chi^2$/NDF: 1599378.9/7

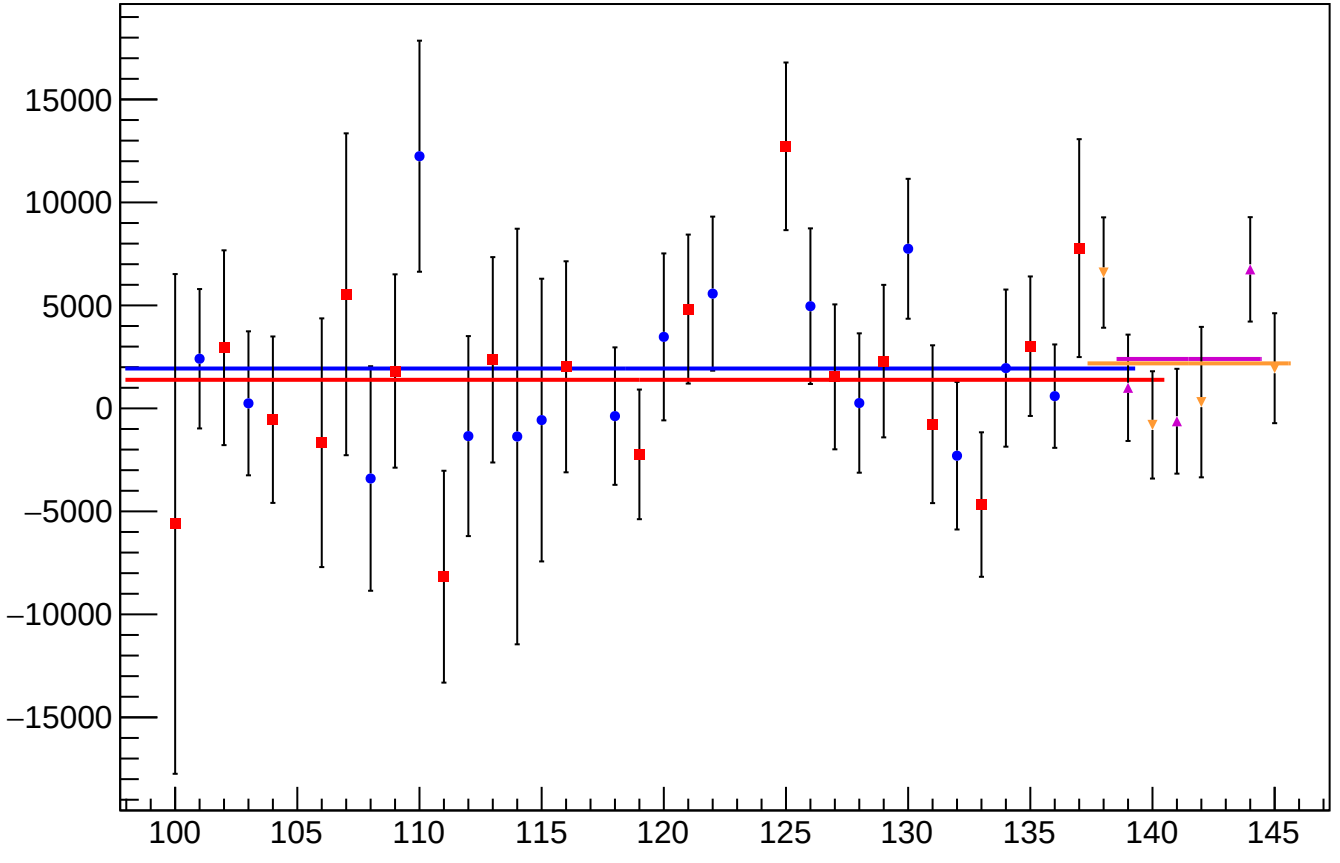
Right: 988.952+/-0.201 $\chi^2$/NDF: 3731518.7/34

In: 1057.443+/-0.252 $\chi^2$/NDF:1586515.6/18

Out: 885.920+/-0.211 $\chi^2$/NDF:3546230.2/23

All: 956.653+/-0.162 $\chi^2$/NDF: 5404183.1/42

# dit_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1935.992+/-962.322 $\chi^2$/NDF: 12.4/15

Left Out: 2185.316+/-1411.373 $\chi^2$/NDF:4.3/3

Right Out: 1387.548+/-1009.105 $\chi^2$/NDF: 19.8/17

Left In: 2400.143+/-1474.250 $\chi^2$/NDF:4.6/2

Left: 2288.051+/-1019.495 $\chi^2$/NDF: 9.0/6

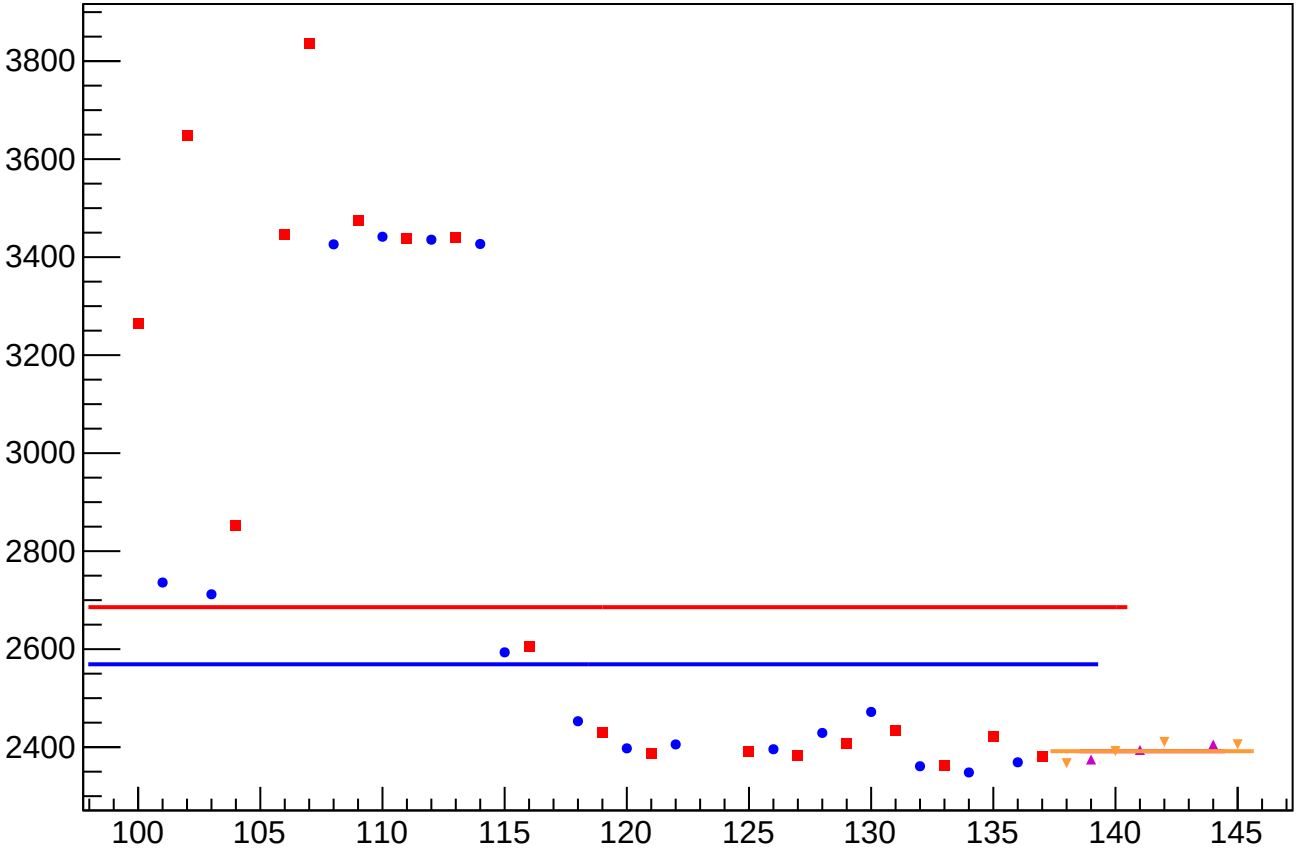
Right: 1674.777+/-696.416 $\chi^2$/NDF: 32.3/33

In: 2074.671+/-805.837 $\chi^2$/NDF:17.1/18

Out: 1657.412+/-820.872 $\chi^2$/NDF:24.3/21

All: 1869.898+/-575.055 $\chi^2$/NDF: 41.5/40

# dit_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2569.130+/-0.680 $\chi^2$/NDF: 229487.5/15

Left Out: 2391.783+/-0.998 $\chi^2$/NDF:276.9/3

Right Out: 2685.675+/-0.714 $\chi^2$/NDF: 419264.8/17

Left In: 2391.702+/-1.042 $\chi^2$/NDF:145.1/2

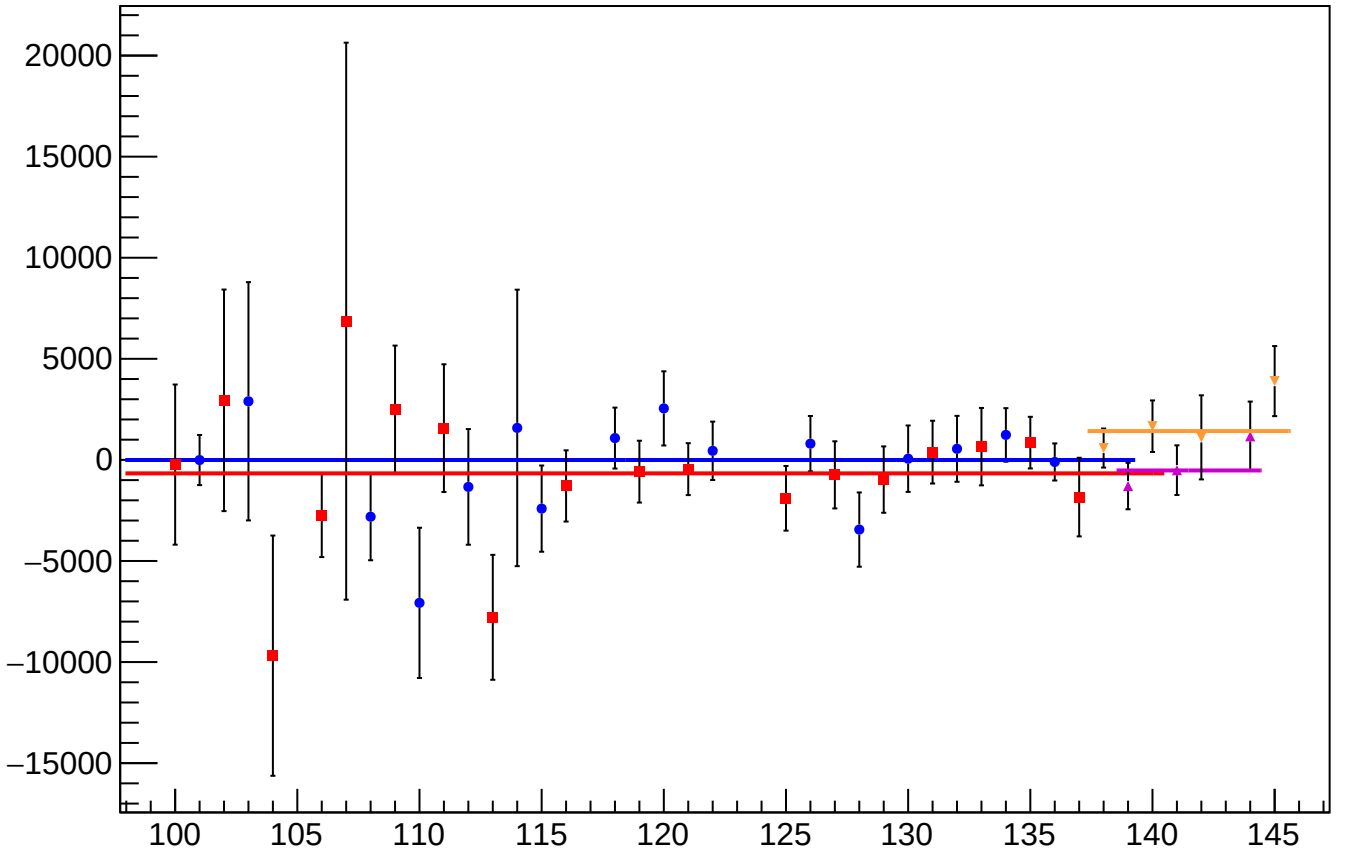
Left: 2391.745+/-0.721 $\chi^2$/NDF: 421.9/6

Right: 2624.638+/-0.492 $\chi^2$/NDF: 662723.7/33

In: 2516.118+/-0.570 $\chi^2$/NDF:249946.0/18

Out: 2586.259+/-0.580 $\chi^2$/NDF:476926.7/21

All: 2550.540+/-0.407 $\chi^2$/NDF: 734308.9/40




Right In: -5.169+/-412.248 $\chi^2$/NDF: 14.5/15

Left Out: 1425.808+/-666.633 $\chi^2$/NDF:2.8/3

Right Out: -665.952+/-460.513 $\chi^2$/NDF: 14.4/17

Left In: -522.120+/-754.163 $\chi^2$/NDF:1.4/2

Left: 571.395+/-499.474 $\chi^2$/NDF: 8.0/6

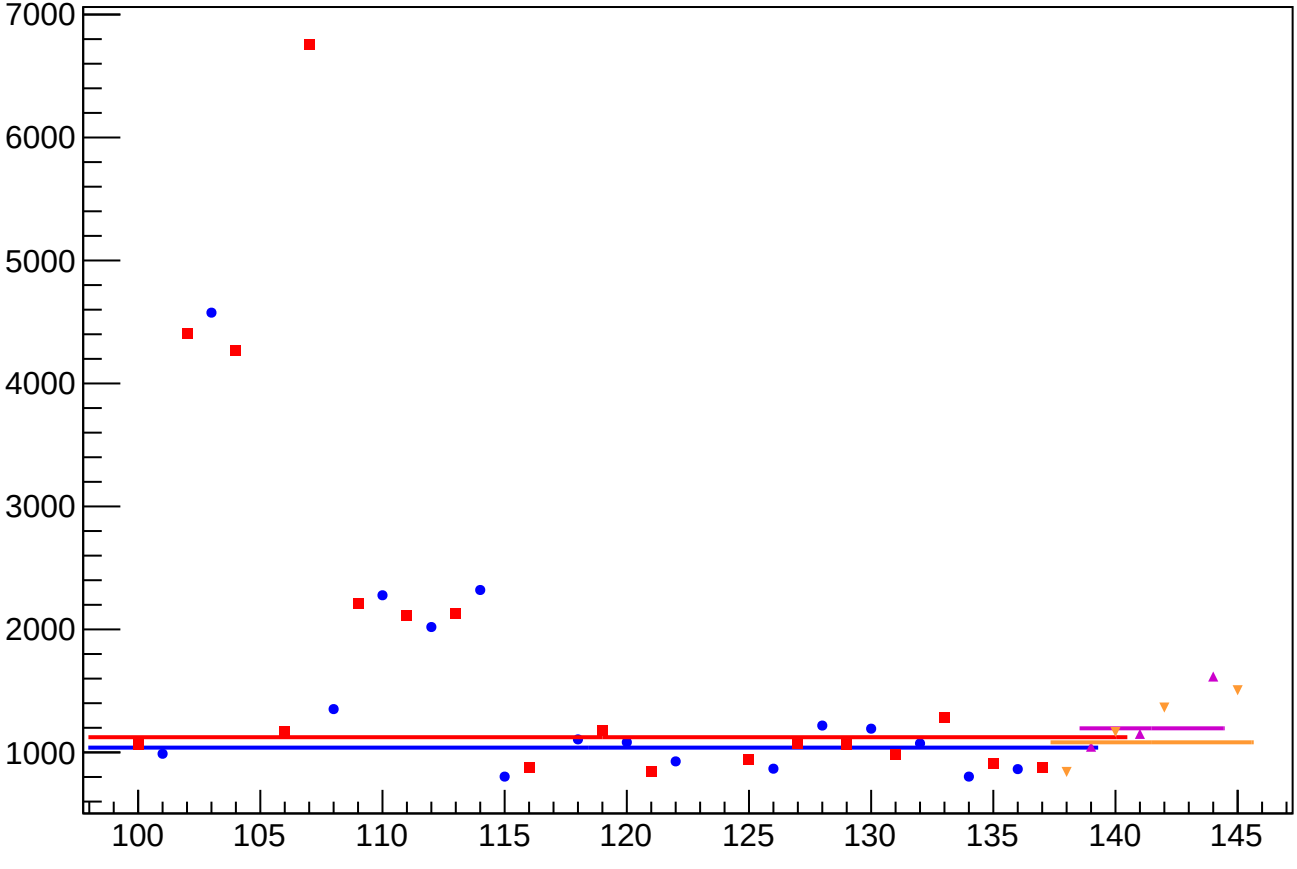
Right: -299.130+/-307.154 $\chi^2$/NDF: 30.0/33

In: -124.099+/-361.732 $\chi^2$/NDF:16.3/18

Out: 9.788+/-378.896 $\chi^2$/NDF:23.9/21

All: -60.257+/-261.641 $\chi^2$/NDF: 40.2/40

# asym_atl1_dit_correction_rms vs Slug, Sign Corrected




Right In: 1038.803+/-0.292 $\chi^2$/NDF: 1539731.1/15

Left Out: 1081.913+/-0.471 $\chi^2$/NDF:289406.4/3

Right Out: 1123.474+/-0.326 $\chi^2$/NDF: 2535511.7/17

Left In: 1195.721+/-0.533 $\chi^2$/NDF:156782.8/2

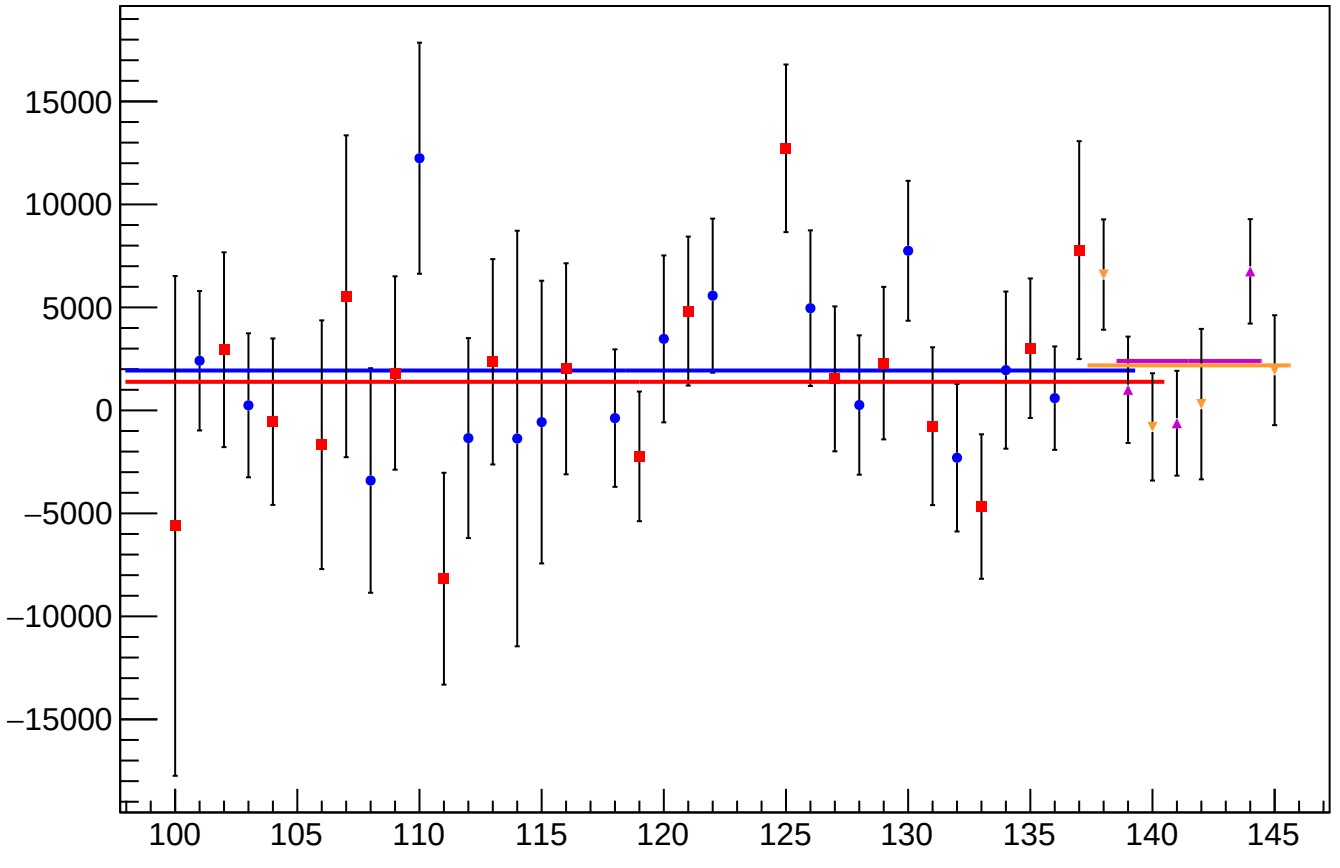
Left: 1131.832+/-0.353 $\chi^2$/NDF: 471757.0/6

Right: 1076.470+/-0.217 $\chi^2$/NDF: 4112776.2/33

In: 1074.903+/-0.256 $\chi^2$/NDF:1763179.6/18

Out: 1110.048+/-0.268 $\chi^2$/NDF:2830180.5/21

All: 1091.662+/-0.185 $\chi^2$/NDF: 4602362.1/40




Right In: 1935.988+/-962.322 $\chi^2$/NDF: 12.4/15

Left Out: 2185.321+/-1411.373 $\chi^2$/NDF:4.3/3

Right Out: 1387.545+/-1009.105 $\chi^2$/NDF: 19.8/17

Left In: 2400.142+/-1474.250 $\chi^2$/NDF:4.6/2

Left: 2288.053+/-1019.495 $\chi^2$/NDF: 9.0/6

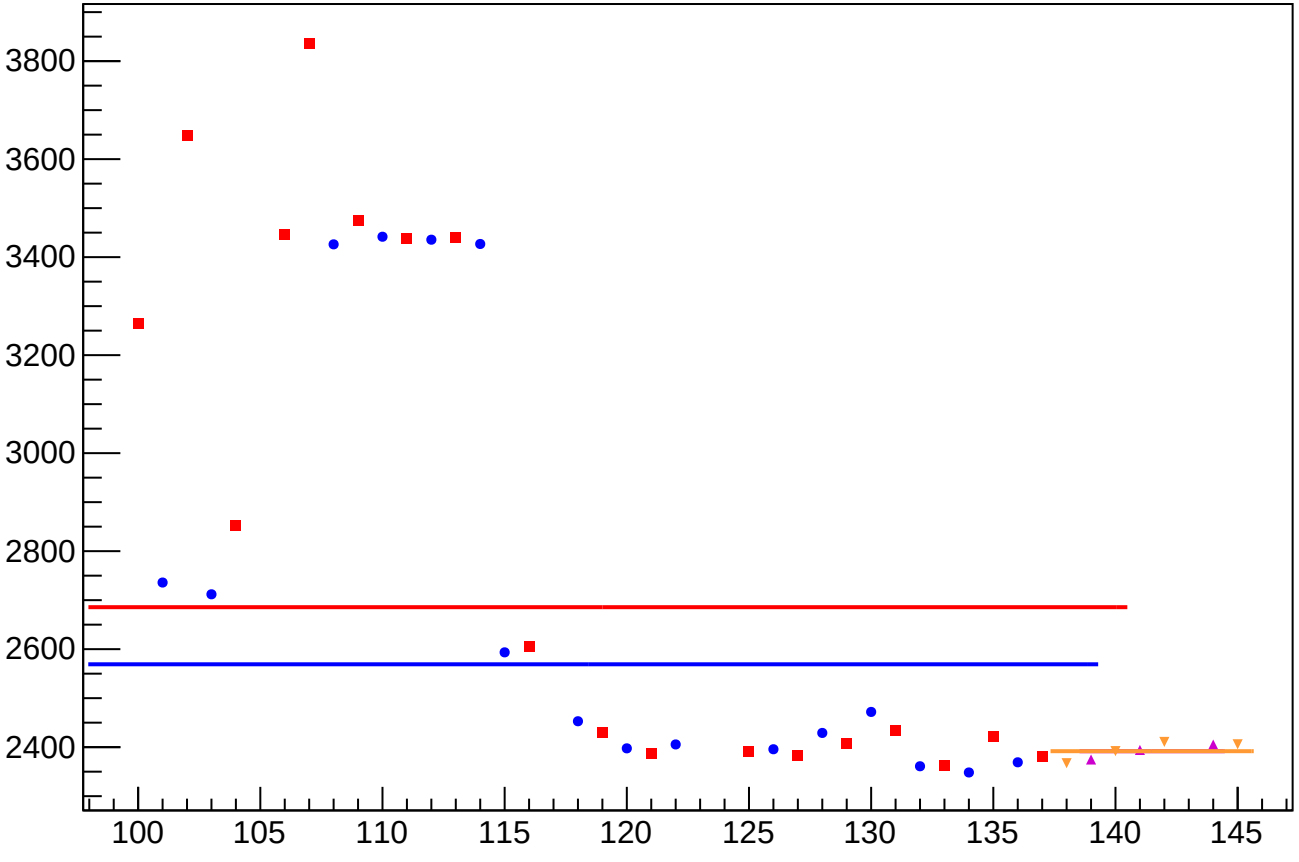
Right: 1674.774+/-696.416 $\chi^2$/NDF: 32.3/33

In: 2074.669+/-805.837 $\chi^2$/NDF:17.1/18

Out: 1657.412+/-820.872 $\chi^2$/NDF:24.3/21

All: 1869.896+/-575.055 $\chi^2$/NDF: 41.5/40

# eigen_dit_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2569.130+/-0.680 $\chi^2$/NDF: 229487.3/15

Left Out: 2391.783+/-0.998 $\chi^2$/NDF:276.9/3

Right Out: 2685.674+/-0.714 $\chi^2$/NDF: 419264.2/17

Left In: 2391.702+/-1.042 $\chi^2$/NDF:145.1/2

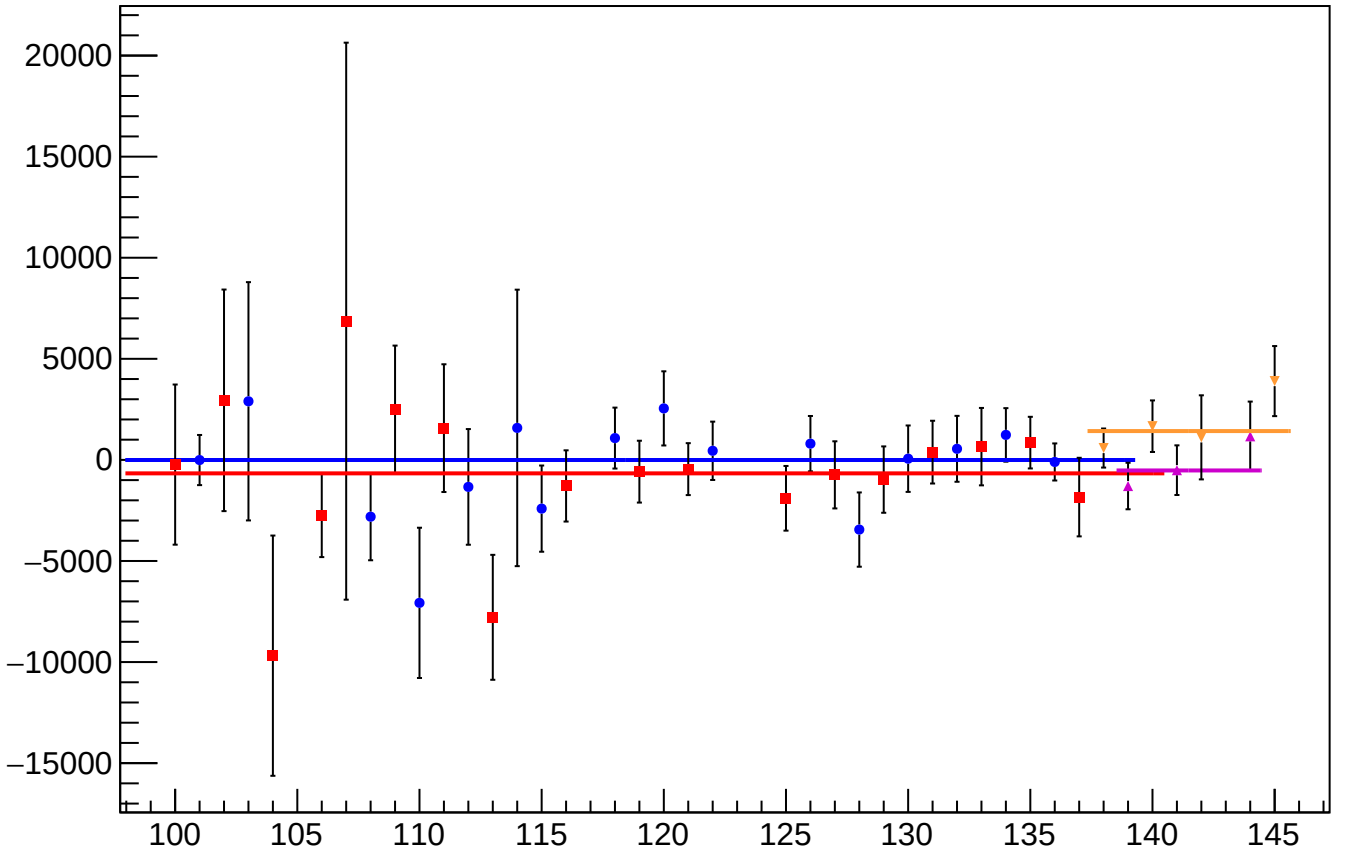
Left: 2391.744+/-0.721 $\chi^2$/NDF: 421.9/6

Right: 2624.638+/-0.492 $\chi^2$/NDF: 662722.8/33

In: 2516.118+/-0.570 $\chi^2$/NDF:249945.7/18

Out: 2586.259+/-0.580 $\chi^2$/NDF:476926.0/21

All: 2550.540+/-0.407 $\chi^2$/NDF: 734307.8/40




Right In: -5.172+/-412.248 $\chi^2$/NDF: 14.5/15

Left Out: 1425.811+/-666.633 $\chi^2$/NDF:2.8/3

Right Out: -665.953+/-460.513 $\chi^2$/NDF: 14.4/17

Left In: -522.123+/-754.163 $\chi^2$/NDF:1.4/2

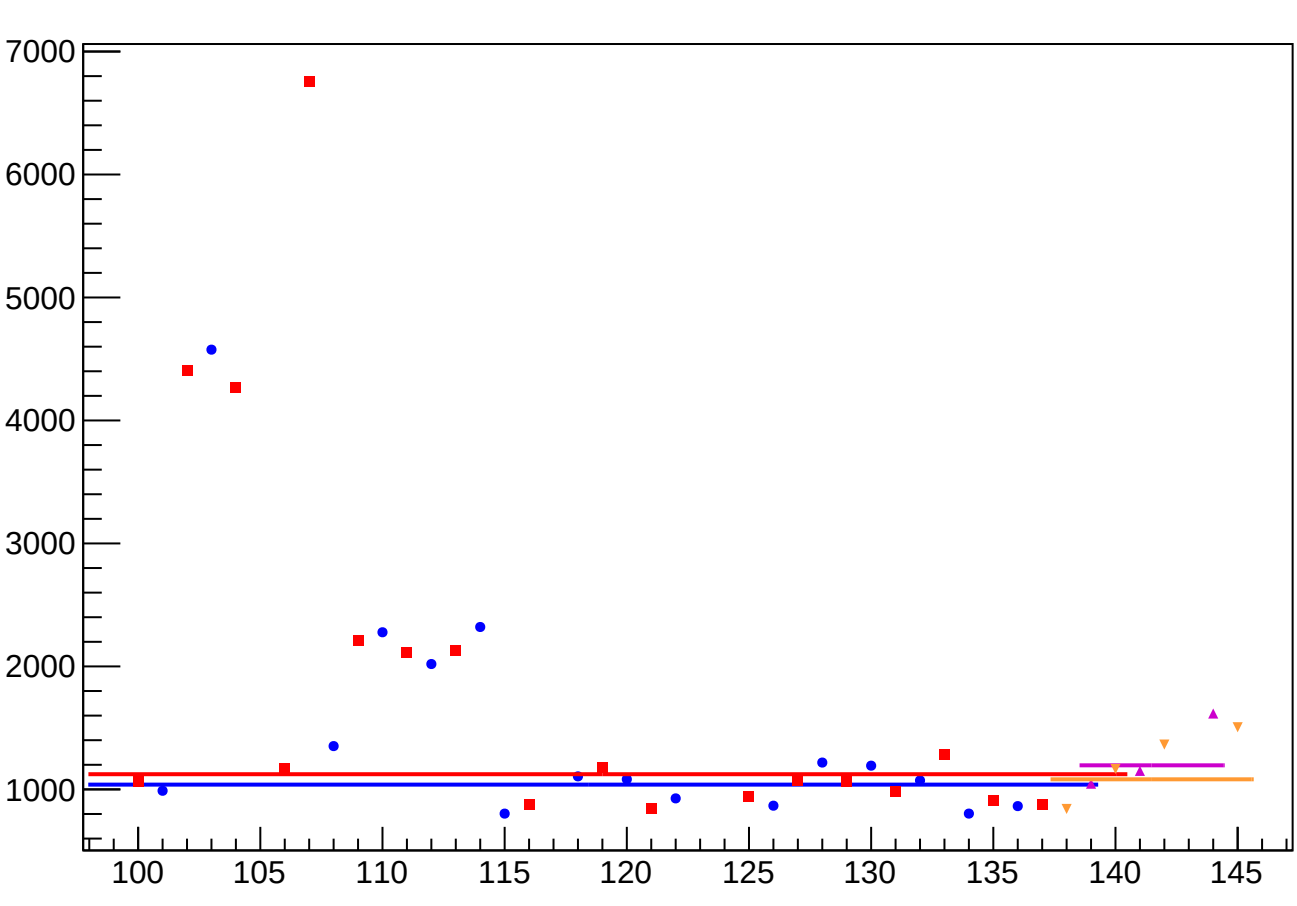
Left: 571.396+/-499.474 $\chi^2$/NDF: 8.0/6

Right: -299.132+/-307.154 $\chi^2$/NDF: 30.0/33

In: -124.102+/-361.732 $\chi^2$/NDF:16.3/18

Out: 9.787+/-378.896 $\chi^2$/NDF:23.9/21

All: -60.259+/-261.641 $\chi^2$/NDF: 40.2/40




Right In: 1038.804+/-0.292 $\chi^2$/NDF: 1539724.8/15

Left Out: 1081.914+/-0.471 $\chi^2$/NDF:289406.8/3

Right Out: 1123.474+/-0.326 $\chi^2$/NDF: 2535509.9/17

Left In: 1195.722+/-0.533 $\chi^2$/NDF:156783.5/2

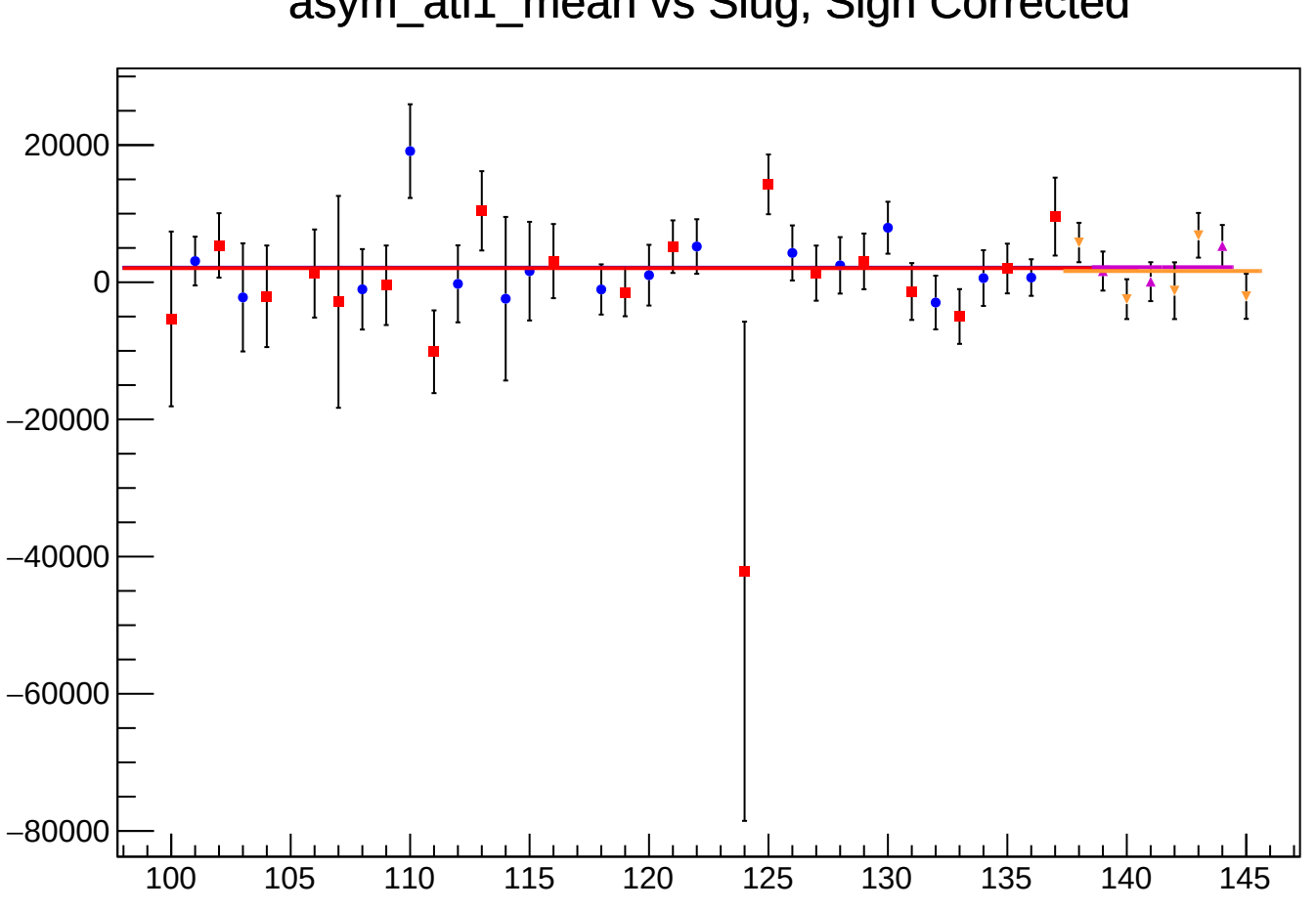
Left: 1131.833+/-0.353 $\chi^2$/NDF: 471758.3/6

Right: 1076.471+/-0.217 $\chi^2$/NDF: 4112767.4/33

In: 1074.904+/-0.256 $\chi^2$/NDF:1763174.1/18

Out: 1110.048+/-0.268 $\chi^2$/NDF:2830179.0/21

All: 1091.662+/-0.185 $\chi^2$/NDF: 4602354.9/40




Right In: 2121.991+/-1084.700 $\chi^2$/NDF: 13.4/15

Left Out: 1635.880+/-1436.493 $\chi^2$/NDF:8.4/4

Right Out: 2059.741+/-1136.807 $\chi^2$/NDF: 24.3/18

Left In: 2190.722+/-1680.427 $\chi^2$/NDF:1.6/2

Left: 1870.143+/-1091.909 $\chi^2$/NDF: 10.0/7

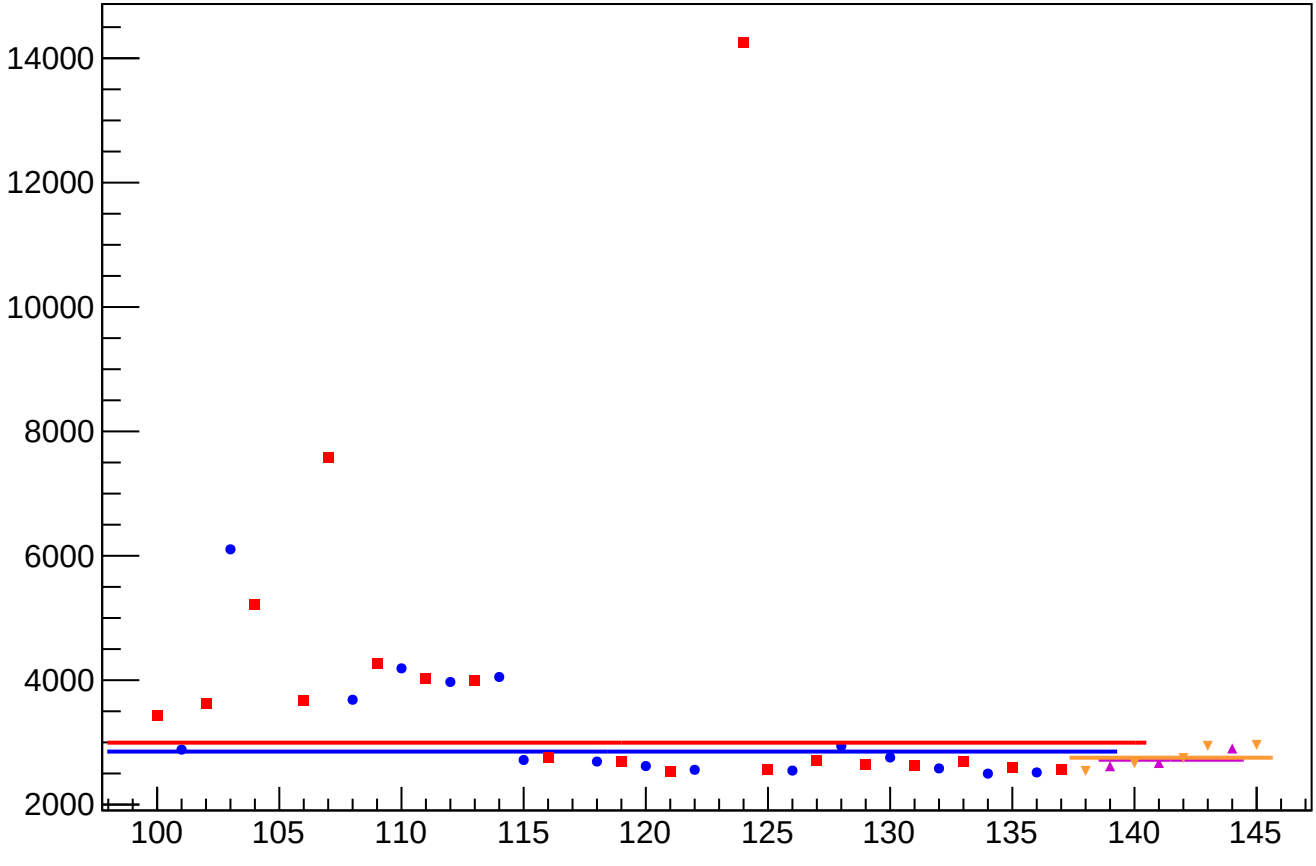
Right: 2092.326+/-784.773 $\chi^2$/NDF: 37.7/34

In: 2142.206+/-911.333 $\chi^2$/NDF:15.0/18

Out: 1896.513+/-891.435 $\chi^2$/NDF:32.7/23

All: 2016.648+/-637.258 $\chi^2$/NDF: 47.8/42

# asym_atl1_rms vs Slug, Sign Corrected




Right In: 2852.206+/-0.767 $\chi^2$/NDF: 648715.2/15

Left Out: 2753.605+/-1.016 $\chi^2$/NDF:27529.5/4

Right Out: 2995.525+/-0.804 $\chi^2$/NDF: 979168.6/18

Left In: 2721.390+/-1.188 $\chi^2$/NDF:10329.7/2

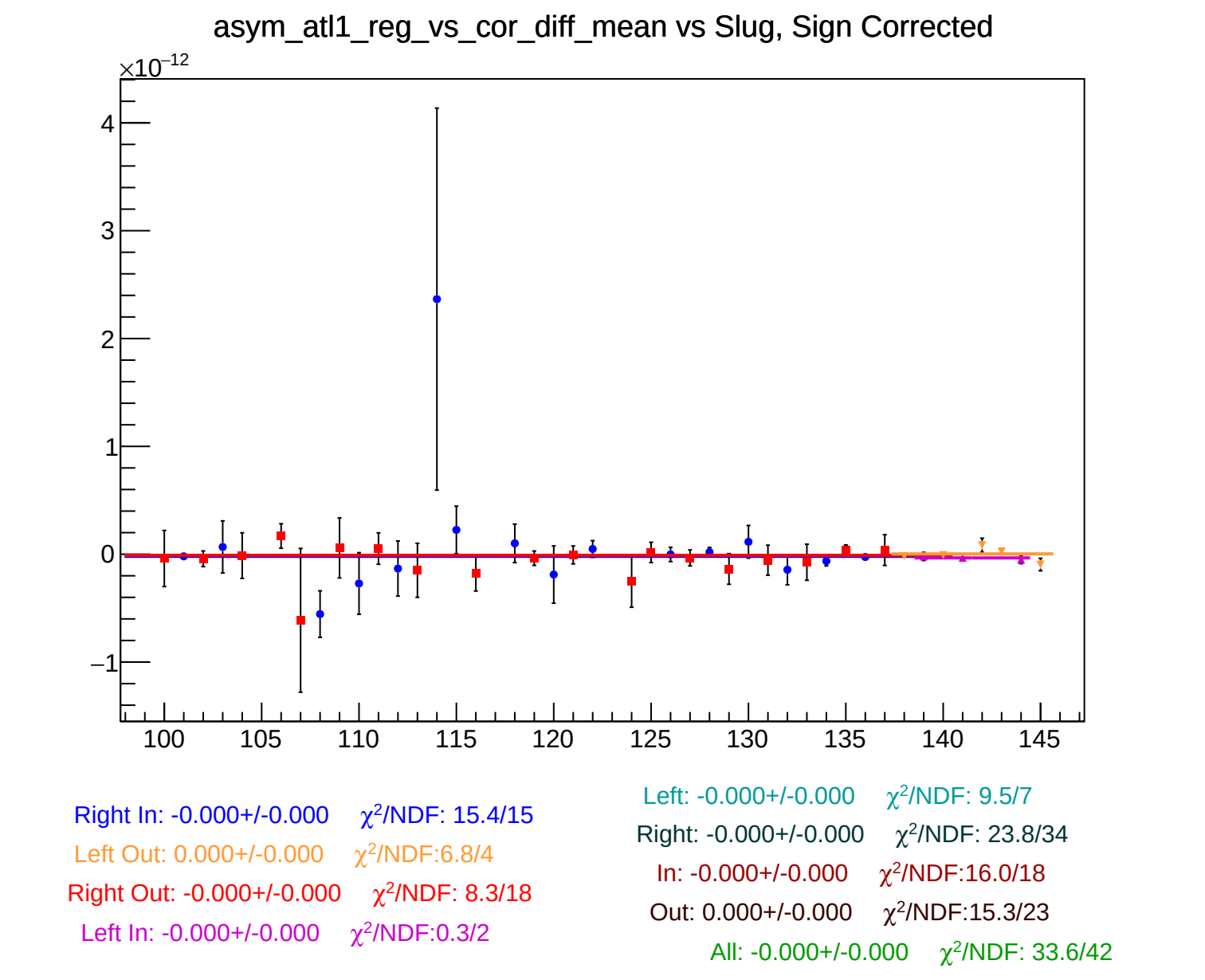
Left: 2740.004+/-0.772 $\chi^2$/NDF: 38283.9/7

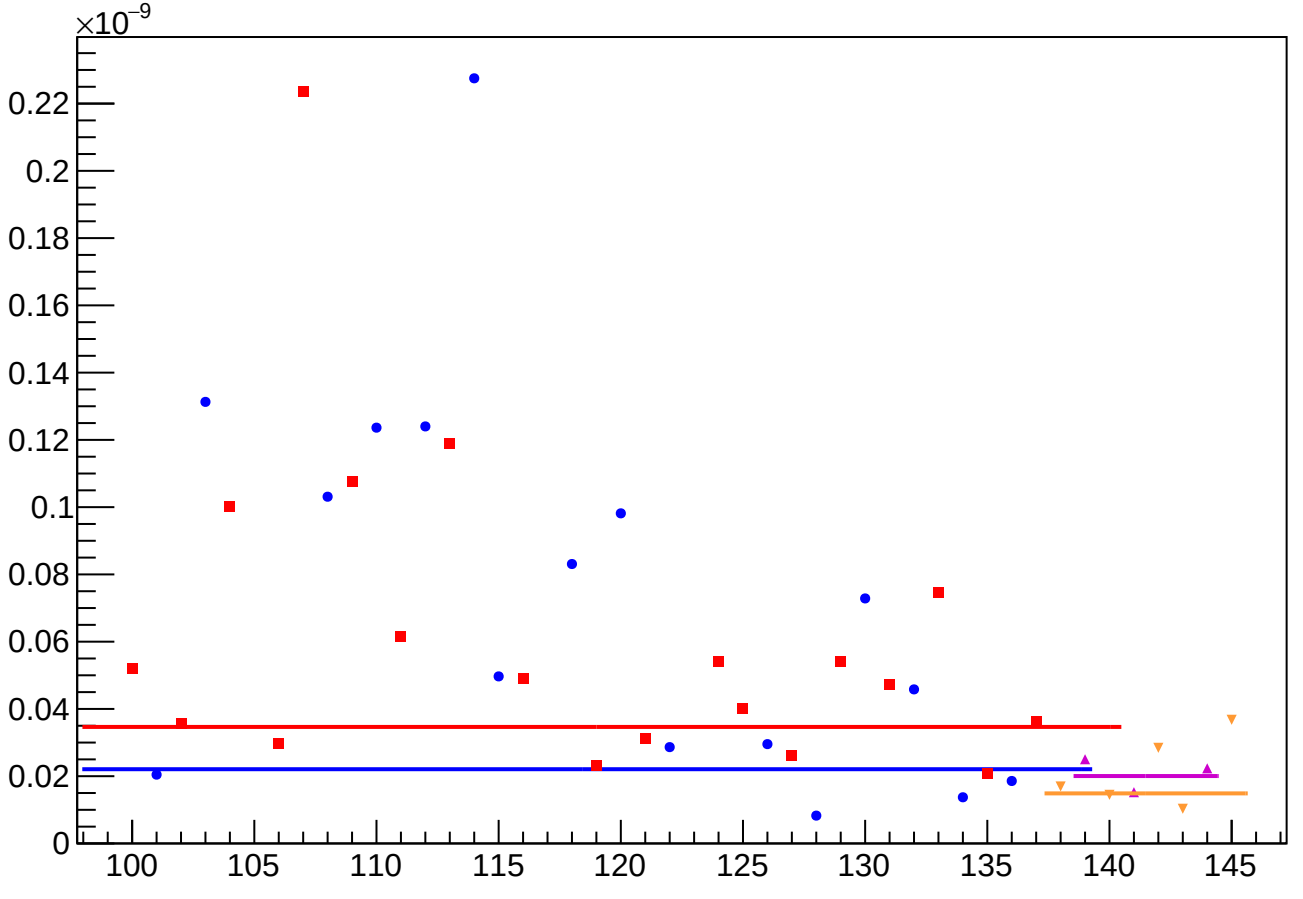
Right: 2920.506+/-0.555 $\chi^2$/NDF: 1644523.2/34

In: 2813.731+/-0.644 $\chi^2$/NDF:667600.5/18

Out: 2902.362+/-0.630 $\chi^2$/NDF:1041577.7/23

All: 2859.025+/-0.451 $\chi^2$/NDF: 1718845.4/42


asym_atl1_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 15.4/15
Left Out: 0.000+/-0.000 χ²/NDF:6.8/4
Right Out: -0.000+/-0.000 χ²/NDF: 8.3/18
Left In: -0.000+/-0.000 χ²/NDF:0.3/2
Left: -0.000+/-0.000 χ²/NDF: 9.5/7
Right: -0.000+/-0.000 χ²/NDF: 23.8/34
In: -0.000+/-0.000 χ²/NDF:16.0/18
Out: 0.000+/-0.000 χ²/NDF:15.3/23
All: -0.000+/-0.000 χ²/NDF: 33.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2344133.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:495960.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1242991.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:91747.7/2

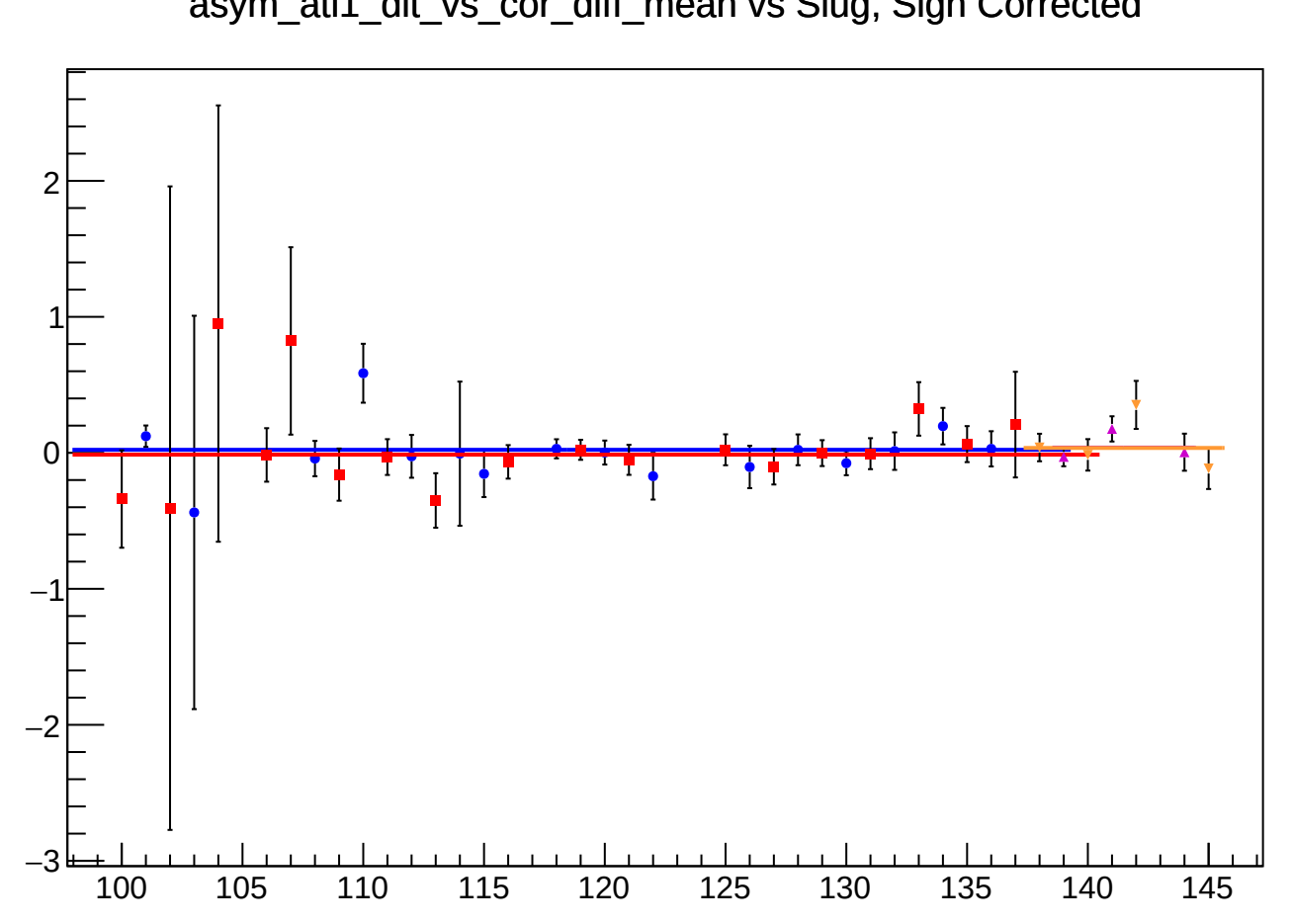
Left: 0.000+/-0.000 $\chi^2$/NDF: 681223.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3942150.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:2447683.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2765466.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5241901.9/42




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: 0.036+/-0.063 $\chi^2$/NDF:4.4/3

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: 0.039+/-0.051 $\chi^2$/NDF:3.2/2

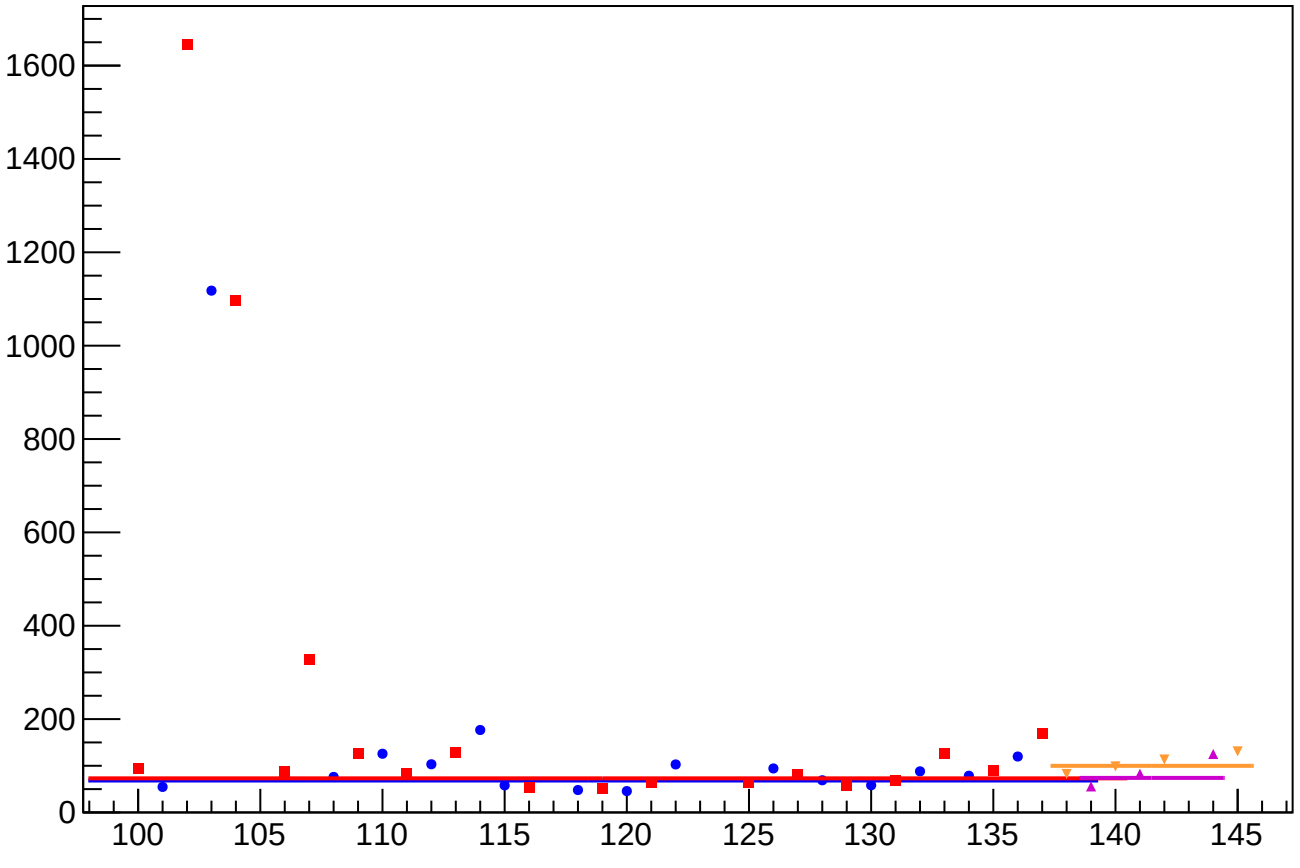
Left: 0.038+/-0.040 $\chi^2$/NDF: 7.6/6

Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: 0.026+/-0.026 $\chi^2$/NDF:18.1/18

Out: -0.003+/-0.030 $\chi^2$/NDF:15.7/21

All: 0.014+/-0.020 $\chi^2$/NDF: 34.4/40




Right In: 68.429+/-0.021 $\chi^2$/NDF: 2278083.9/15

Left Out: 99.872+/-0.045 $\chi^2$/NDF:155714.4/3

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913147.6/17

Left In: 74.025+/-0.036 $\chi^2$/NDF:439450.9/2

Left: 84.269+/-0.028 $\chi^2$/NDF: 795695.1/6

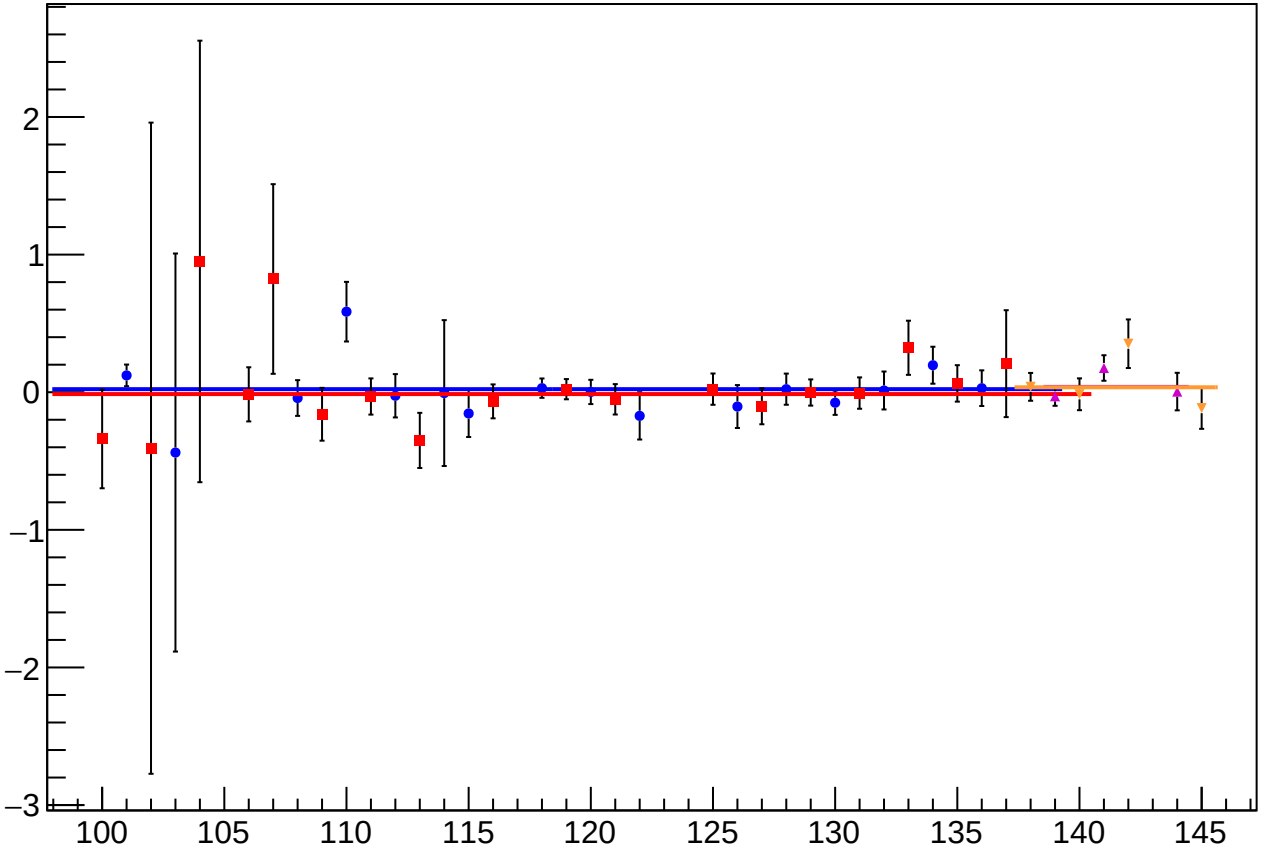
Right: 70.509+/-0.016 $\chi^2$/NDF: 5212470.4/33

In: 69.862+/-0.018 $\chi^2$/NDF:2735177.6/18

Out: 78.912+/-0.021 $\chi^2$/NDF:3348161.9/21

All: 73.804+/-0.014 $\chi^2$/NDF: 6188830.6/40

asym_atl1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: 0.036+/-0.063 $\chi^2$/NDF:4.4/3

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: 0.039+/-0.051 $\chi^2$/NDF:3.2/2

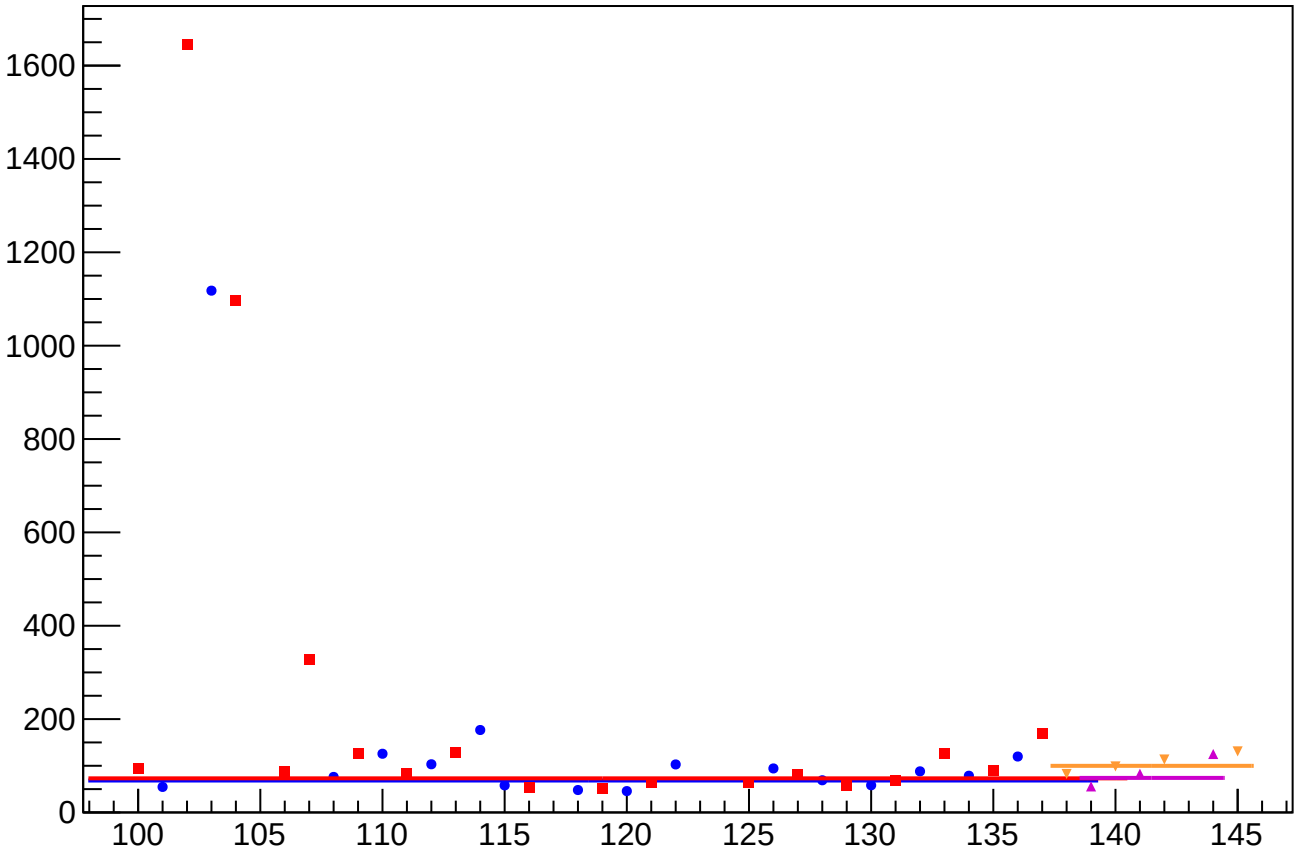
Left: 0.038+/-0.040 $\chi^2$/NDF: 7.6/6

Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: 0.026+/-0.026 $\chi^2$/NDF:18.1/18

Out: -0.003+/-0.030 $\chi^2$/NDF:15.7/21

All: 0.014+/-0.020 $\chi^2$/NDF: 34.4/40




Right In: 68.429+/-0.021 $\chi^2$/NDF: 2278083.9/15

Left Out: 99.872+/-0.045 $\chi^2$/NDF:155714.4/3

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913147.6/17

Left In: 74.025+/-0.036 $\chi^2$/NDF:439450.9/2

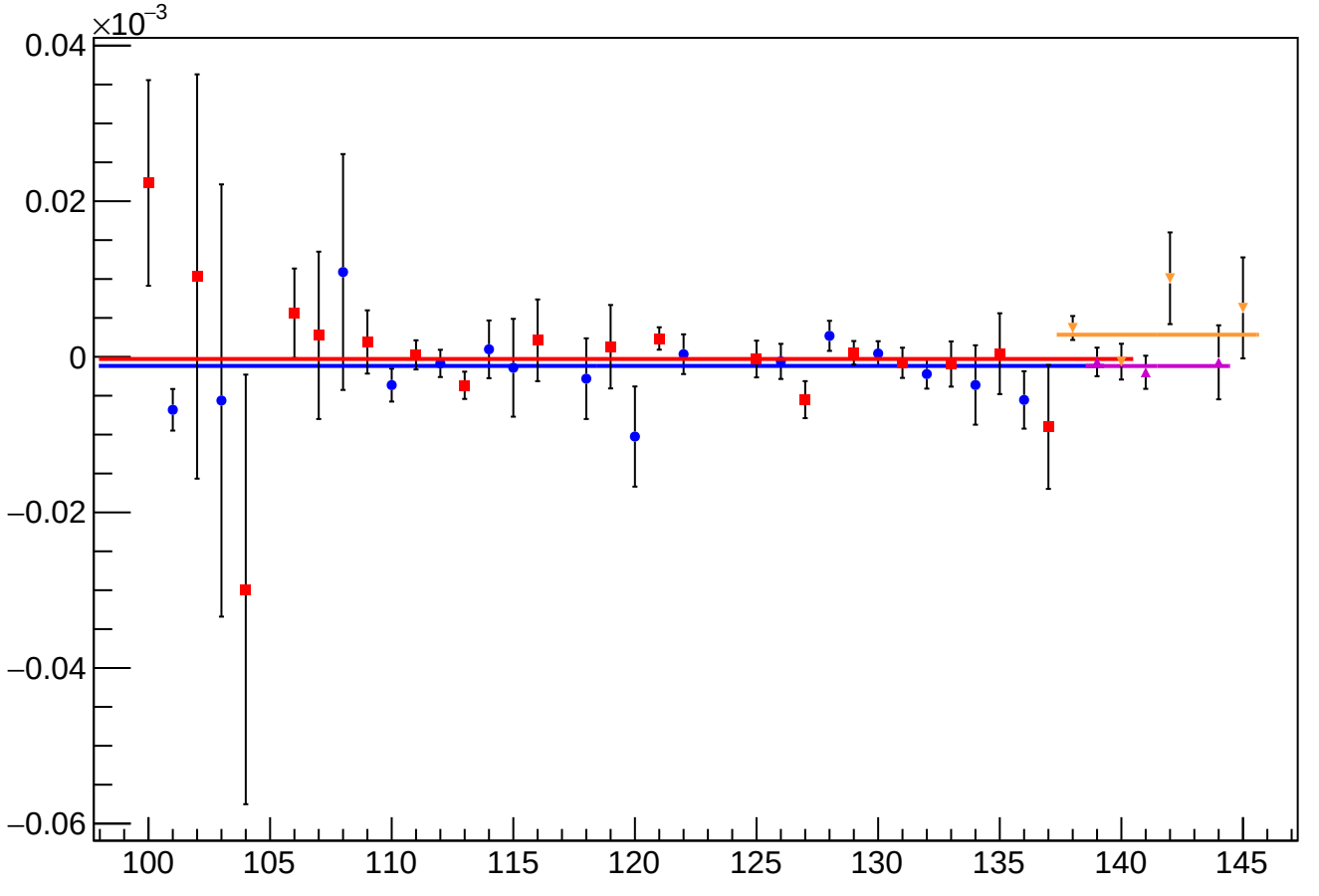
Left: 84.269+/-0.028 $\chi^2$/NDF: 795695.1/6

Right: 70.509+/-0.016 $\chi^2$/NDF: 5212470.4/33

In: 69.862+/-0.018 $\chi^2$/NDF:2735177.6/18

Out: 78.912+/-0.021 $\chi^2$/NDF:3348161.9/21

All: 73.804+/-0.014 $\chi^2$/NDF: 6188830.6/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.4/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.5/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.2/2

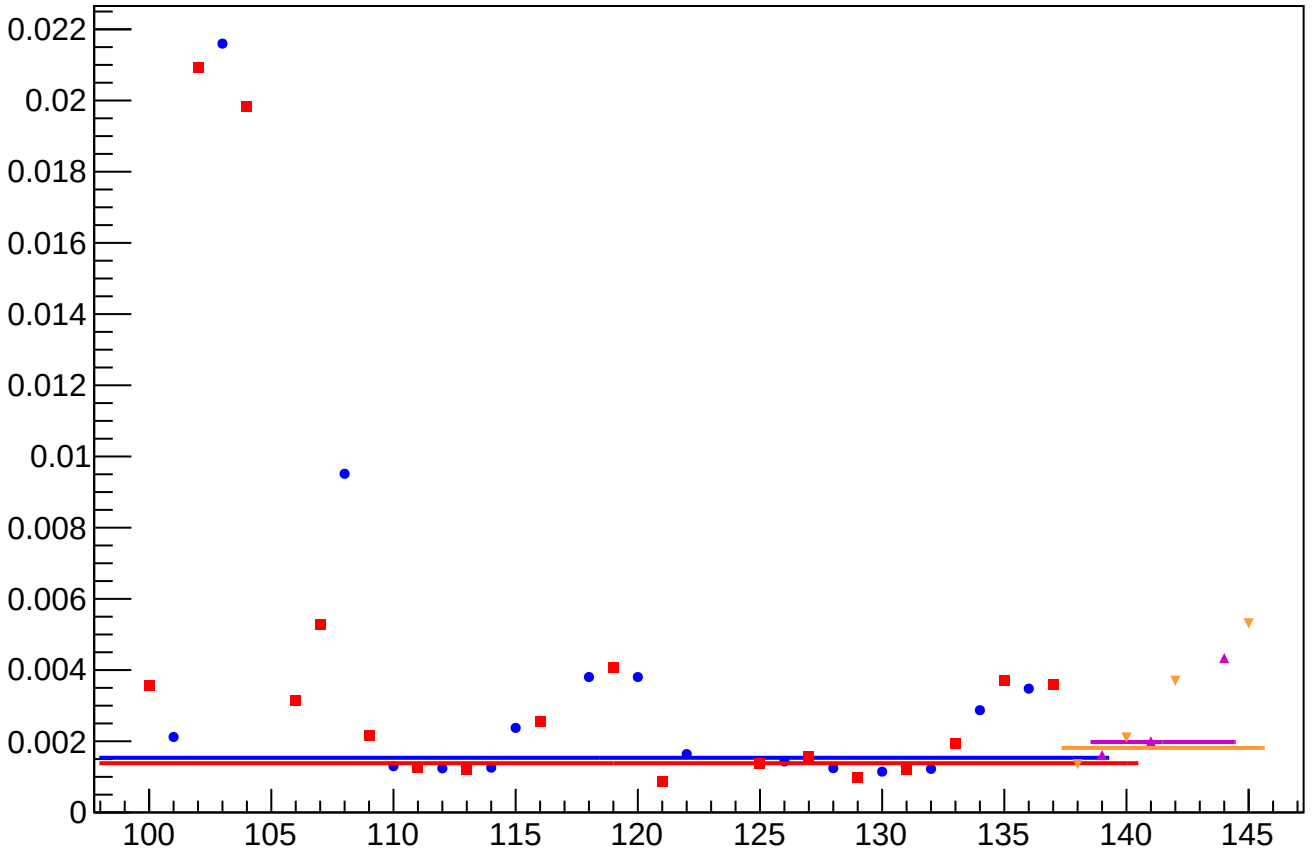
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.5/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:16.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:29.0/21

All: -0.000+/-0.000 $\chi^2$/NDF: 49.1/40




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3373907.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:994213.6/3

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4269081.2/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:569717.2/2

Left: 0.002+/-0.000 $\chi^2$/NDF: 1580591.3/6

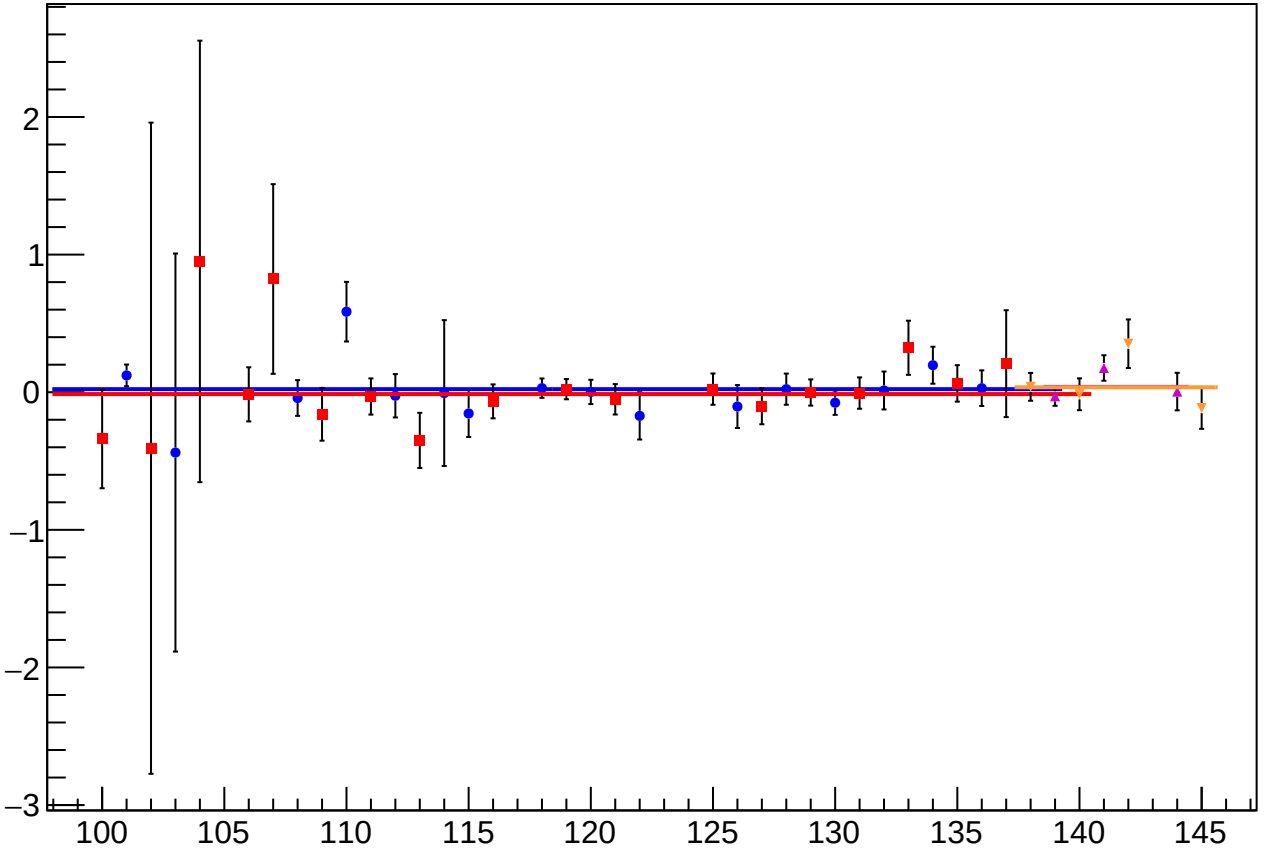
Right: 0.001+/-0.000 $\chi^2$/NDF: 7697891.2/33

In: 0.002+/-0.000 $\chi^2$/NDF:4120693.5/18

Out: 0.001+/-0.000 $\chi^2$/NDF:5456908.8/21

All: 0.002+/-0.000 $\chi^2$/NDF: 9644613.2/40

asym_atl1_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.030 $\chi^2$/NDF: 14.8/15

Left Out: 0.036+/-0.063 $\chi^2$/NDF:4.4/3

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: 0.039+/-0.051 $\chi^2$/NDF:3.2/2

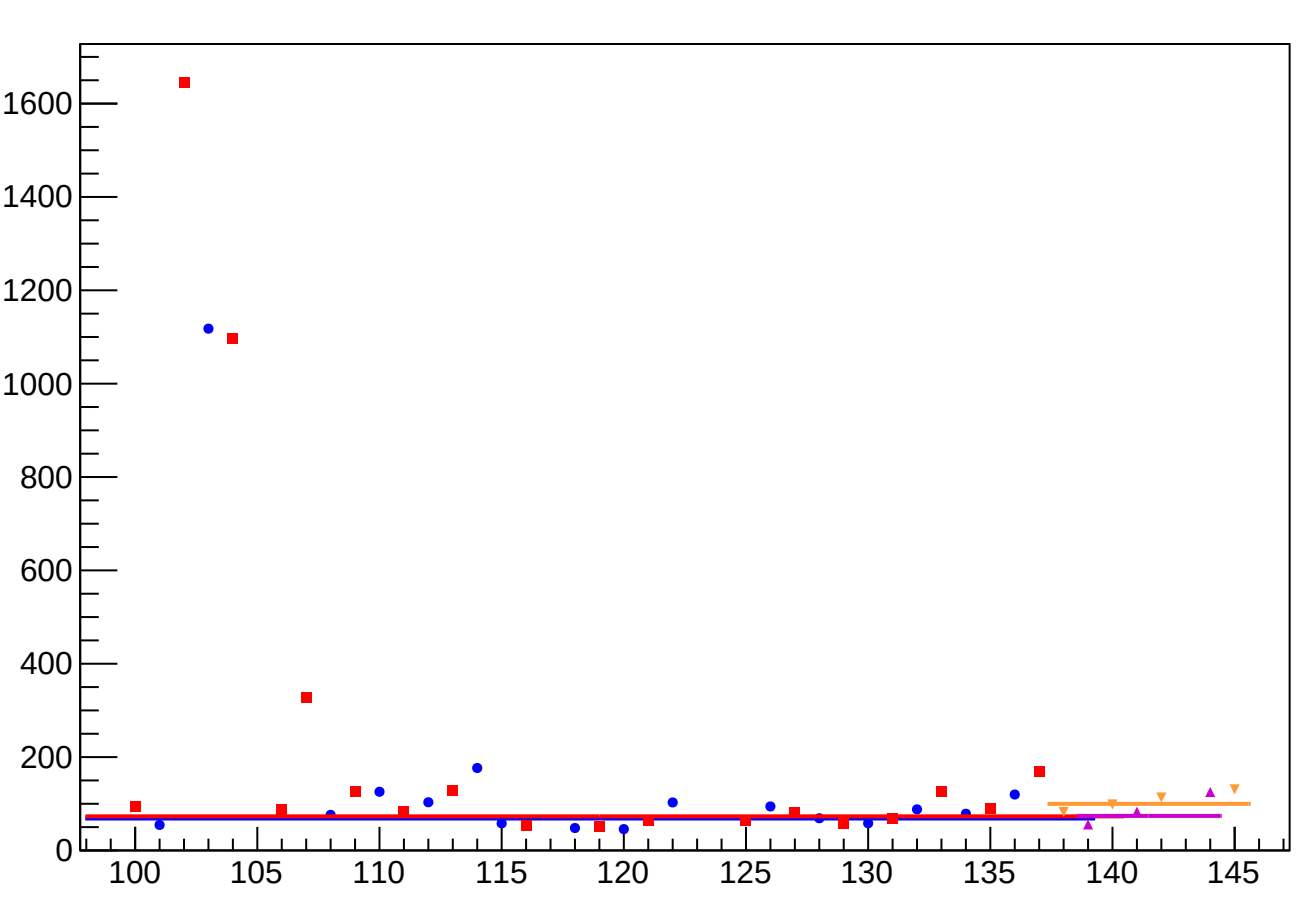
Left: 0.038+/-0.040 $\chi^2$/NDF: 7.6/6

Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: 0.026+/-0.026 $\chi^2$/NDF:18.1/18

Out: -0.003+/-0.030 $\chi^2$/NDF:15.7/21

All: 0.014+/-0.020 $\chi^2$/NDF: 34.4/40




Right In: 68.428+/-0.021 $\chi^2$/NDF: 2278168.9/15

Left Out: 99.872+/-0.045 $\chi^2$/NDF:155706.1/3

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913161.9/17

Left In: 74.025+/-0.036 $\chi^2$/NDF:439449.2/2

Left: 84.269+/-0.028 $\chi^2$/NDF: 795684.2/6

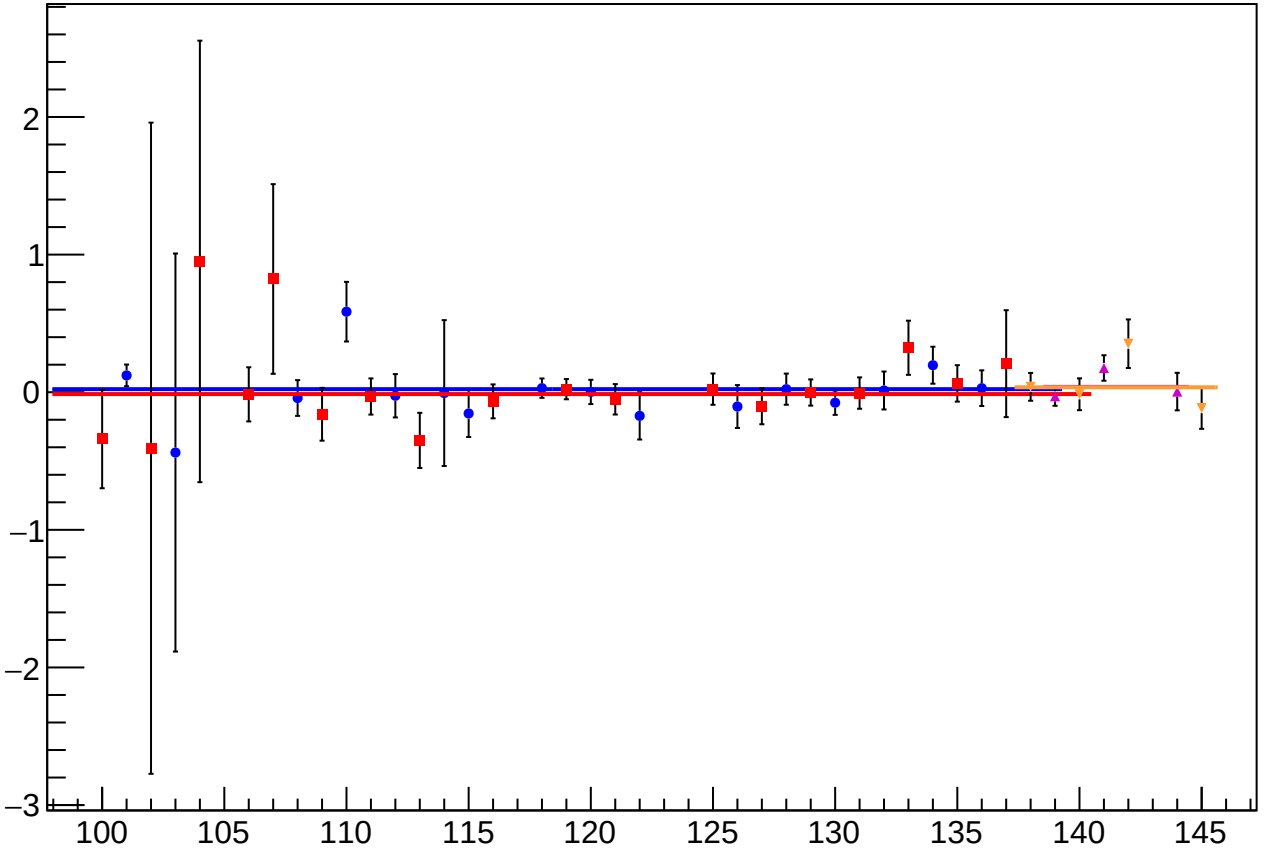
Right: 70.508+/-0.016 $\chi^2$/NDF: 5212574.0/33

In: 69.862+/-0.018 $\chi^2$/NDF:2735266.3/18

Out: 78.912+/-0.021 $\chi^2$/NDF:3348175.6/21

All: 73.803+/-0.014 $\chi^2$/NDF: 6188940.3/40

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: 0.036+/-0.063 $\chi^2$/NDF:4.4/3

Right Out: -0.013+/-0.033 $\chi^2$/NDF: 10.8/17

Left In: 0.039+/-0.051 $\chi^2$/NDF:3.2/2

Left: 0.038+/-0.040 $\chi^2$/NDF: 7.6/6

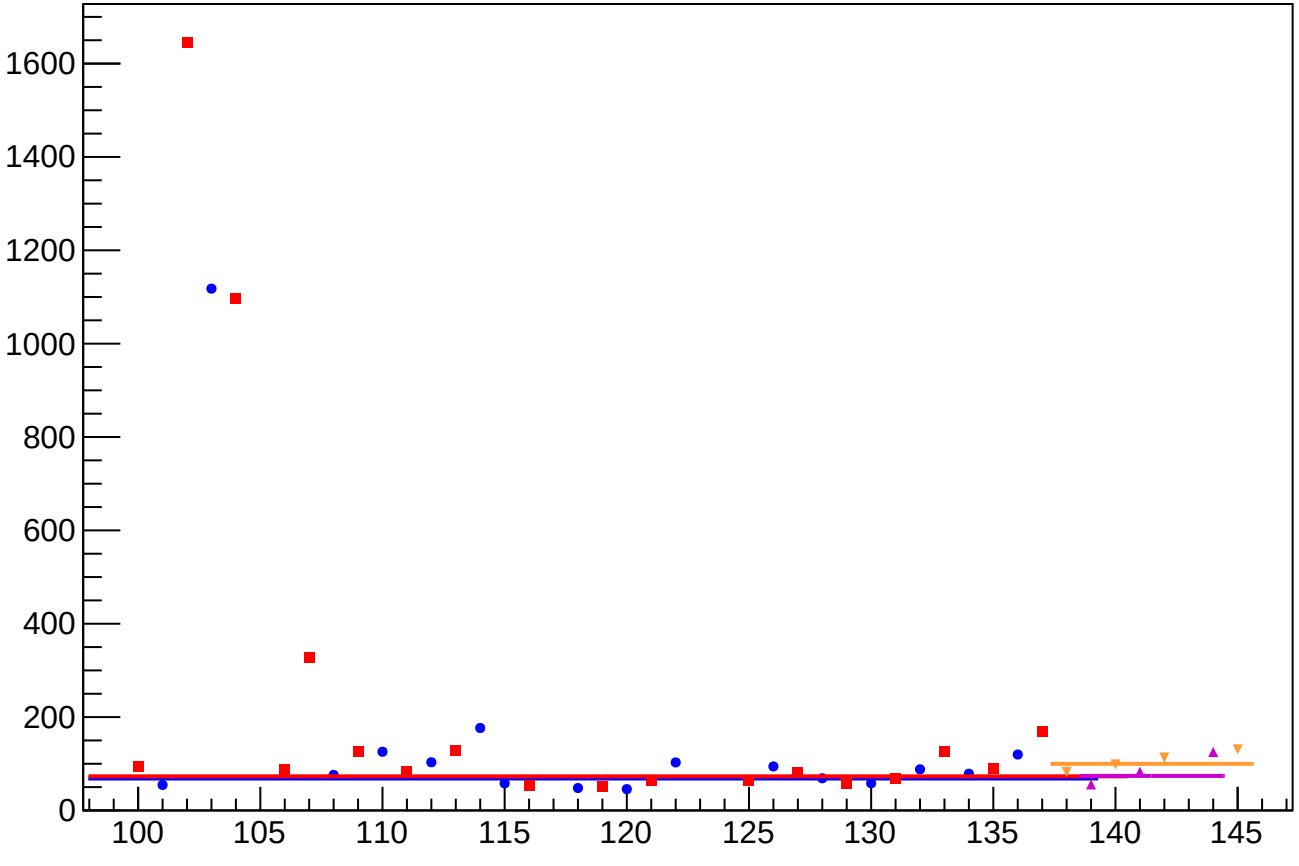
Right: 0.006+/-0.022 $\chi^2$/NDF: 26.3/33

In: 0.026+/-0.026 $\chi^2$/NDF:18.1/18

Out: -0.003+/-0.030 $\chi^2$/NDF:15.7/21

All: 0.014+/-0.020 $\chi^2$/NDF: 34.4/40

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: 99.872+/-0.045 $\chi^2$/NDF:155706.1/3

Right Out: 73.072+/-0.024 $\chi^2$/NDF: 2913161.9/17

Left In: 74.025+/-0.036 $\chi^2$/NDF:439449.2/2

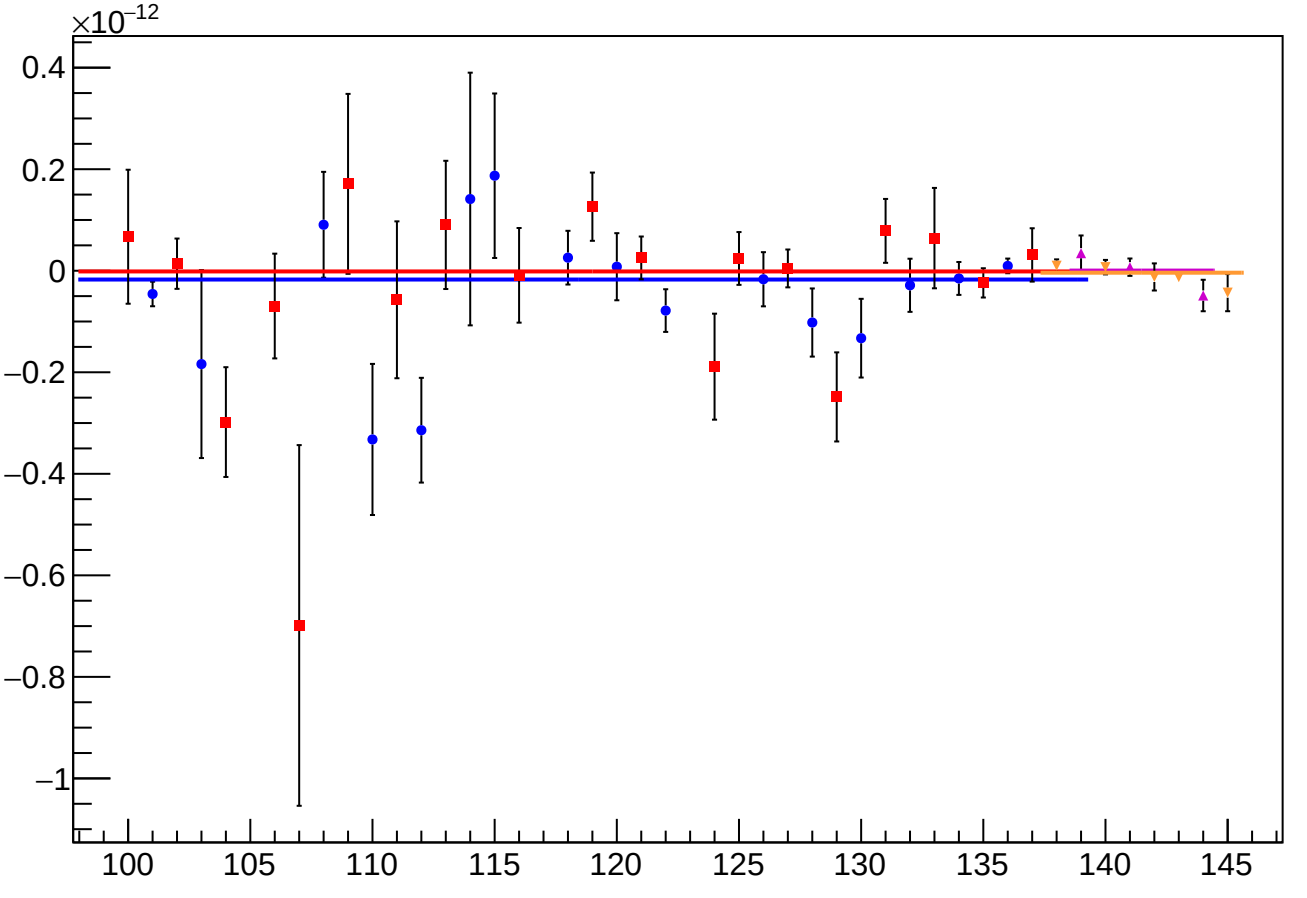
Left: 84.269+/-0.028 $\chi^2$/NDF: 795684.2/6

Right: 70.508+/-0.016 $\chi^2$/NDF: 5212574.0/33

In: 69.862+/-0.018 $\chi^2$/NDF:2735266.3/18

Out: 78.912+/-0.021 $\chi^2$/NDF:3348175.6/21

All: 73.803+/-0.014 $\chi^2$/NDF: 6188940.3/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 28.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.9/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.6/2

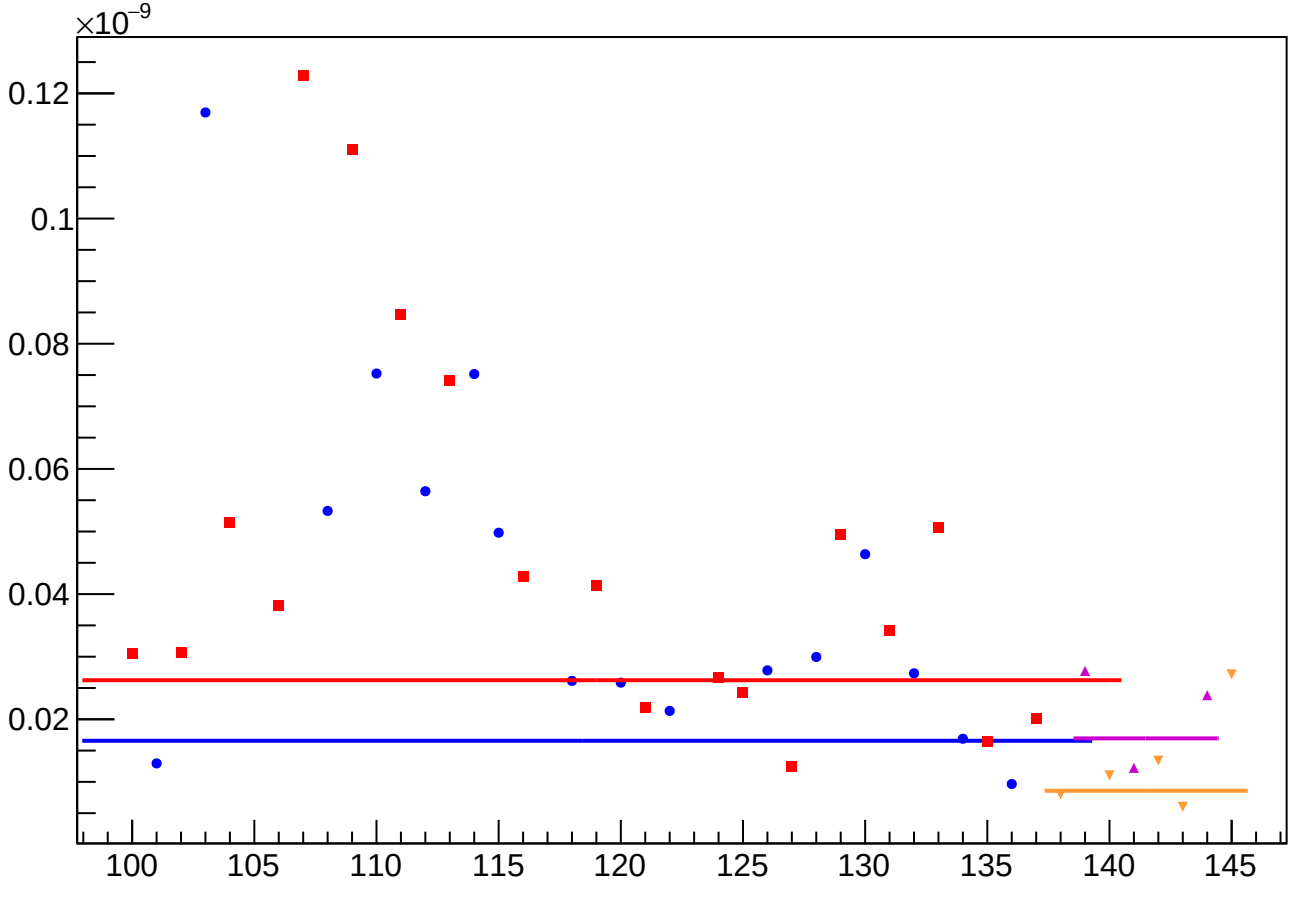
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.6/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 61.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:33.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:36.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 69.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2823424.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:793931.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2346394.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:441689.9/2

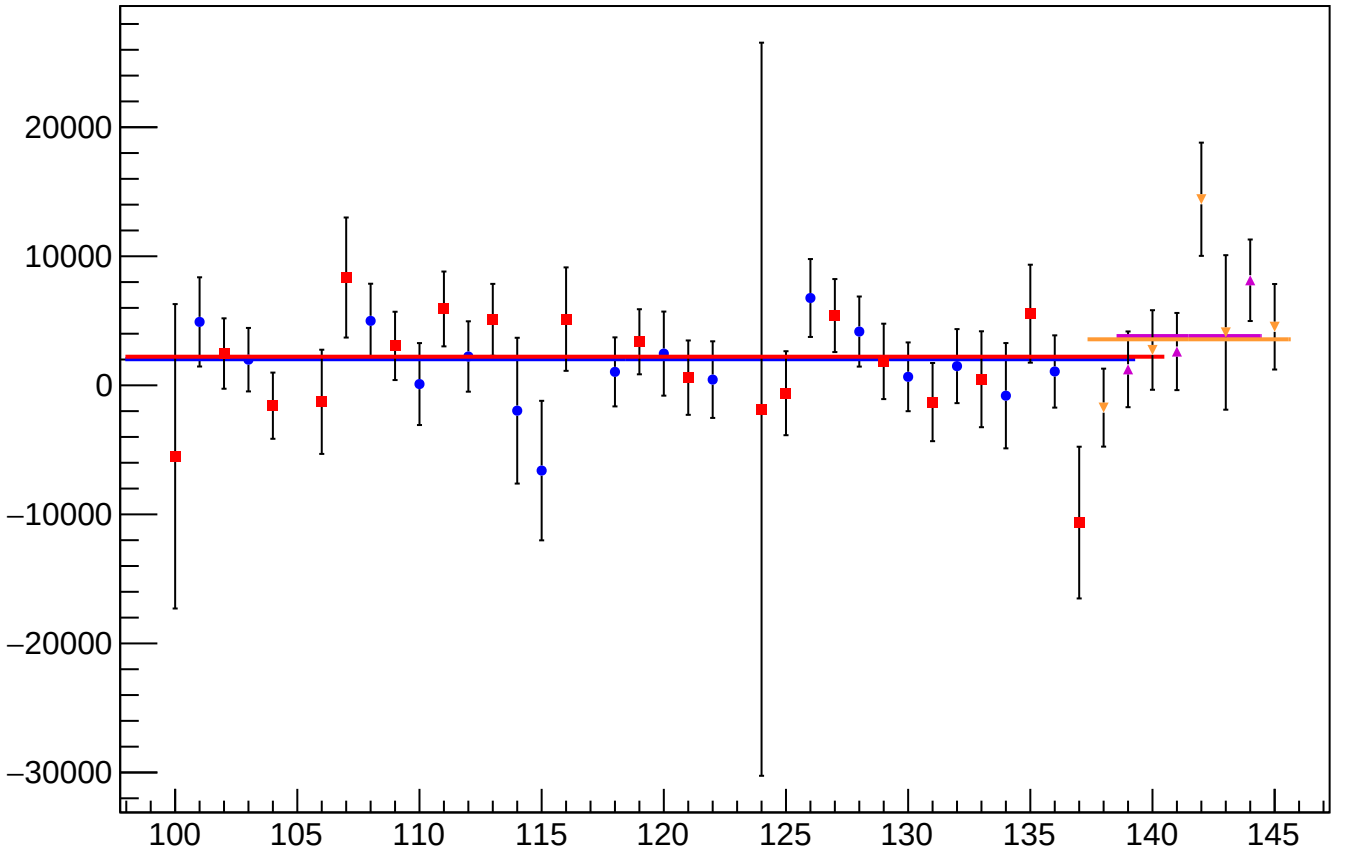
Left: 0.000+/-0.000 $\chi^2$/NDF: 1846445.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 5786992.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:3266118.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5702830.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9517622.0/42




Right In: 2022.690+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 3565.790+/-1610.123 $\chi^2$/NDF:9.4/4

Right Out: 2217.261+/-756.139 $\chi^2$/NDF: 18.1/18

Left In: 3817.483+/-1745.710 $\chi^2$/NDF:2.8/2

Left: 3681.484+/-1183.564 $\chi^2$/NDF: 12.2/7

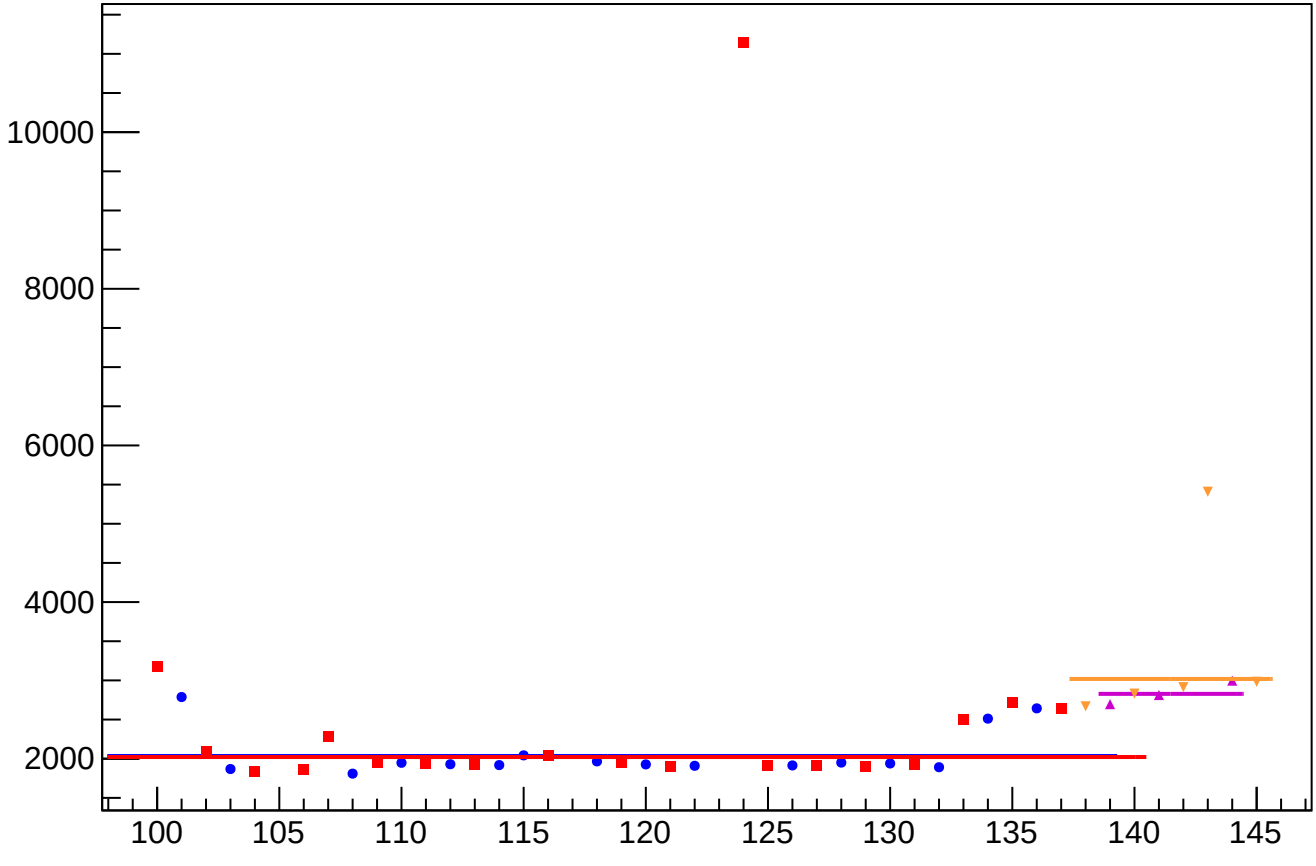
Right: 2121.027+/-537.553 $\chi^2$/NDF: 27.8/34

In: 2311.420+/-700.181 $\chi^2$/NDF:13.3/18

Out: 2460.927+/-684.425 $\chi^2$/NDF:28.1/23

All: 2387.874+/-489.437 $\chi^2$/NDF: 41.4/42

# reg_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.7/15

Left Out: 3018.367+/-1.139 $\chi^2$/NDF:354436.1/4

Right Out: 2021.545+/-0.535 $\chi^2$/NDF: 390321.3/18

Left In: 2828.056+/-1.234 $\chi^2$/NDF:9759.8/2

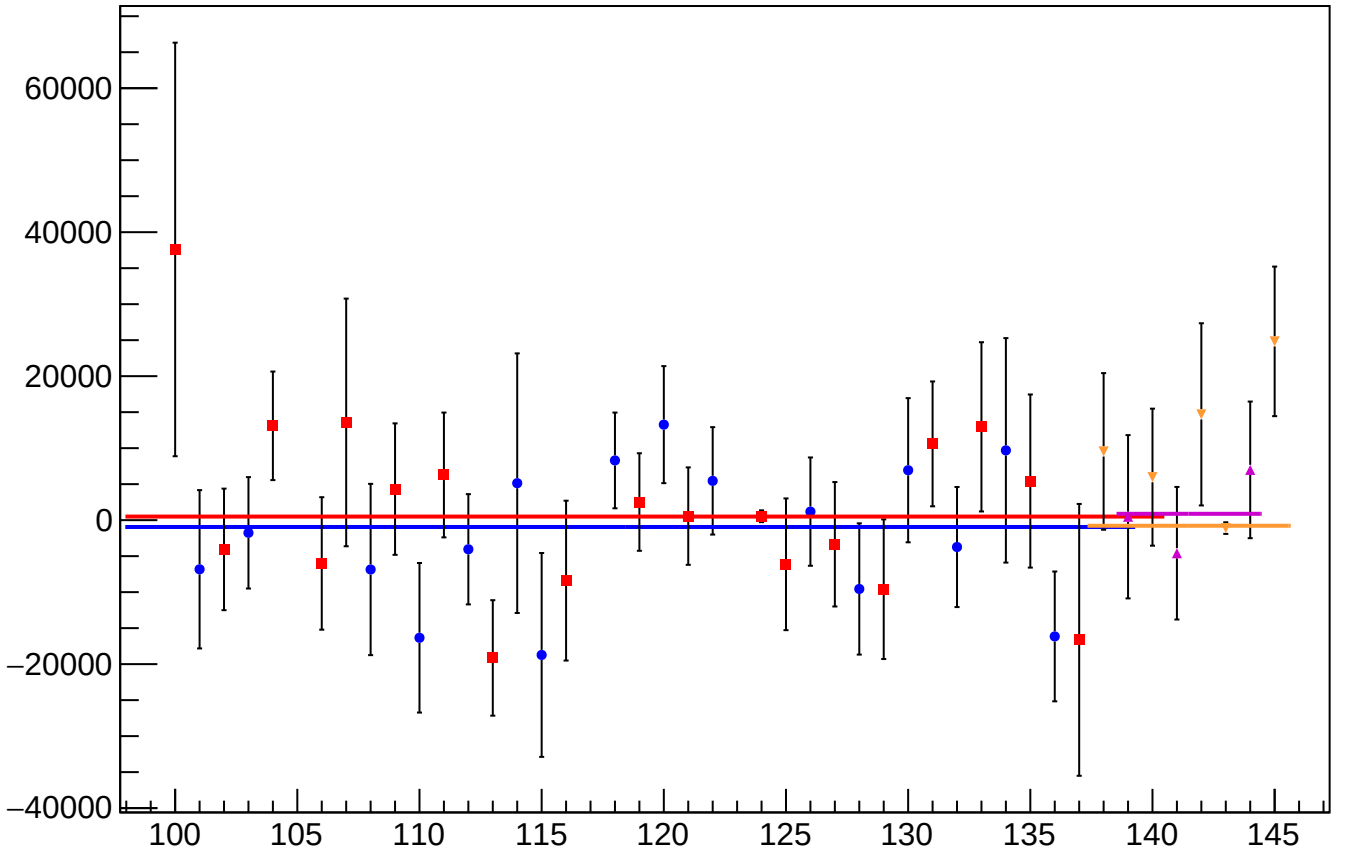
Left: 2930.888+/-0.837 $\chi^2$/NDF: 377039.4/7

Right: 2027.784+/-0.380 $\chi^2$/NDF: 653557.3/34

In: 2161.874+/-0.495 $\chi^2$/NDF:619810.9/18

Out: 2201.660+/-0.484 $\chi^2$/NDF:1372809.6/23

All: 2182.220+/-0.346 $\chi^2$/NDF: 1995922.9/42




Right In: -950.519+/-2278.532 $\chi^2$/NDF: 15.3/15

Left Out: -780.276+/-798.102 $\chi^2$/NDF:9.1/4

Right Out: 497.346+/-768.286 $\chi^2$/NDF: 18.5/18

Left In: 881.472+/-5709.734 $\chi^2$/NDF:0.8/2

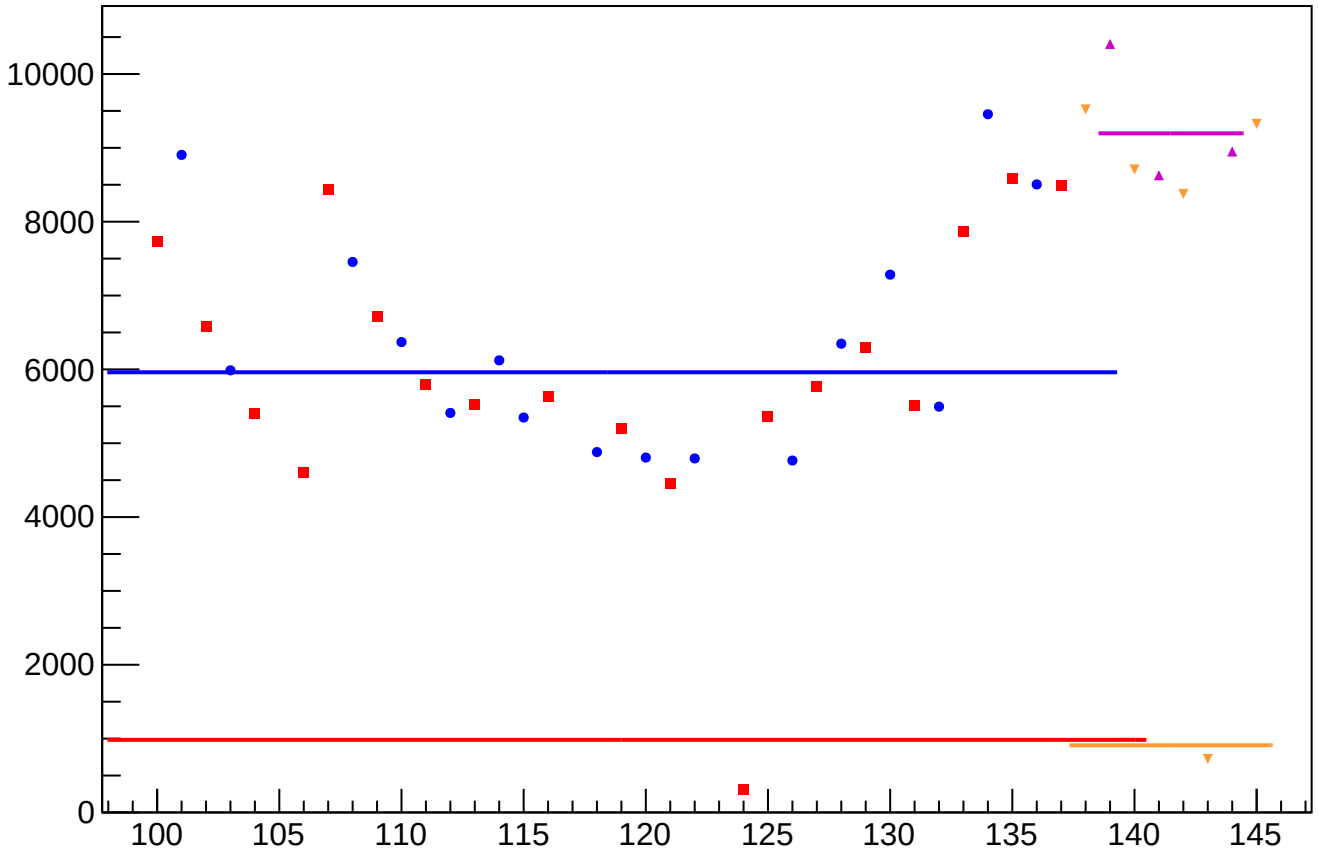
Left: -748.431+/-790.418 $\chi^2$/NDF: 10.0/7

Right: 349.538+/-728.015 $\chi^2$/NDF: 34.2/34

In: -698.853+/-2116.248 $\chi^2$/NDF:16.2/18

Out: -117.155+/-553.501 $\chi^2$/NDF:28.9/23

All: -154.400+/-535.488 $\chi^2$/NDF: 45.2/42




Right In: 5960.802+/-1.611 $\chi^2$/NDF: 689267.6/15

Left Out: 909.649+/-0.564 $\chi^2$/NDF:4709266.9/4

Right Out: 983.316+/-0.543 $\chi^2$/NDF: 11416689.8/18

Left In: 9196.592+/-4.037 $\chi^2$/NDF:31722.7/2

Left: 1068.459+/-0.559 $\chi^2$/NDF: 8873209.4/7

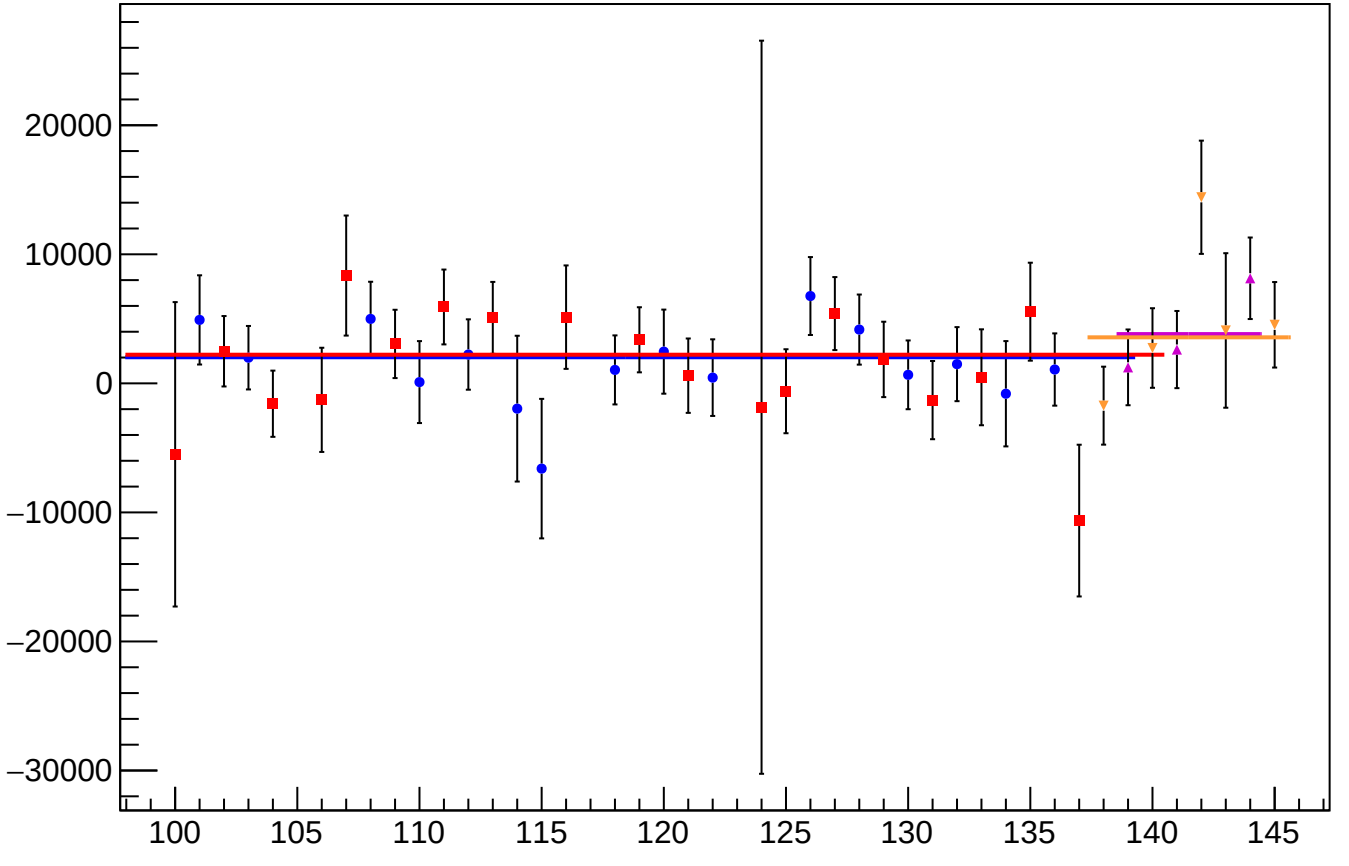
Right: 1491.453+/-0.515 $\chi^2$/NDF: 20675824.3/34

In: 6405.312+/-1.496 $\chi^2$/NDF:1275082.5/18

Out: 947.885+/-0.391 $\chi^2$/NDF:16134800.7/23

All: 1297.310+/-0.379 $\chi^2$/NDF: 29858921.8/4

# cor_asym_atl2_mean vs Slug, Sign Corrected




Right In: 2022.816+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 3566.087+/-1610.123 $\chi^2$/NDF:9.4/4

Right Out: 2219.099+/-756.147 $\chi^2$/NDF: 18.1/18

Left In: 3817.608+/-1745.710 $\chi^2$/NDF:2.8/2

Left: 3681.701+/-1183.564 $\chi^2$/NDF: 12.2/7

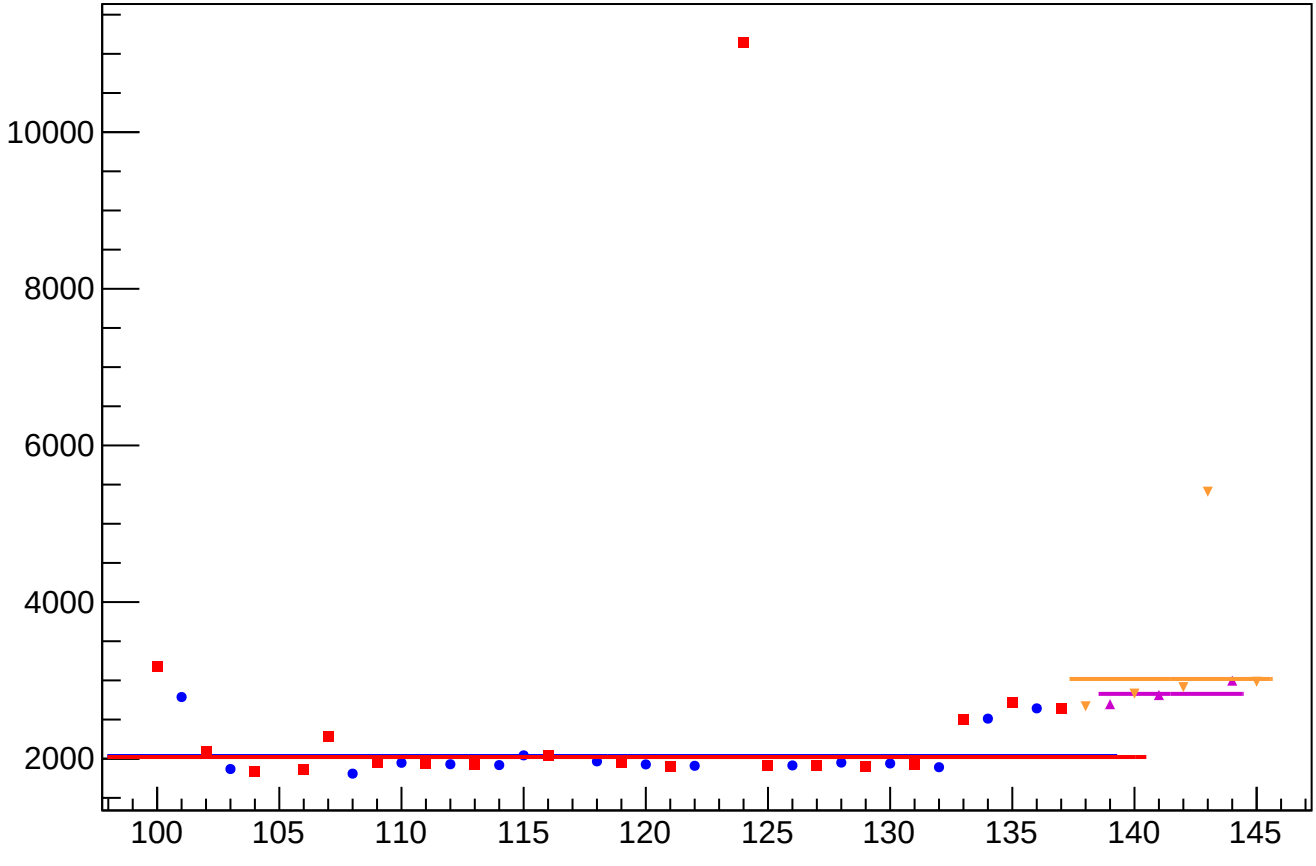
Right: 2122.018+/-537.556 $\chi^2$/NDF: 27.8/34

In: 2311.546+/-700.181 $\chi^2$/NDF:13.3/18

Out: 2462.490+/-684.431 $\chi^2$/NDF:28.1/23

All: 2388.735+/-489.439 $\chi^2$/NDF: 41.4/42

# cor_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.5/15

Left Out: 3018.367+/-1.139 $\chi^2$/NDF:354436.1/4

Right Out: 2021.566+/-0.535 $\chi^2$/NDF: 390333.0/18

Left In: 2828.056+/-1.234 $\chi^2$/NDF:9759.8/2

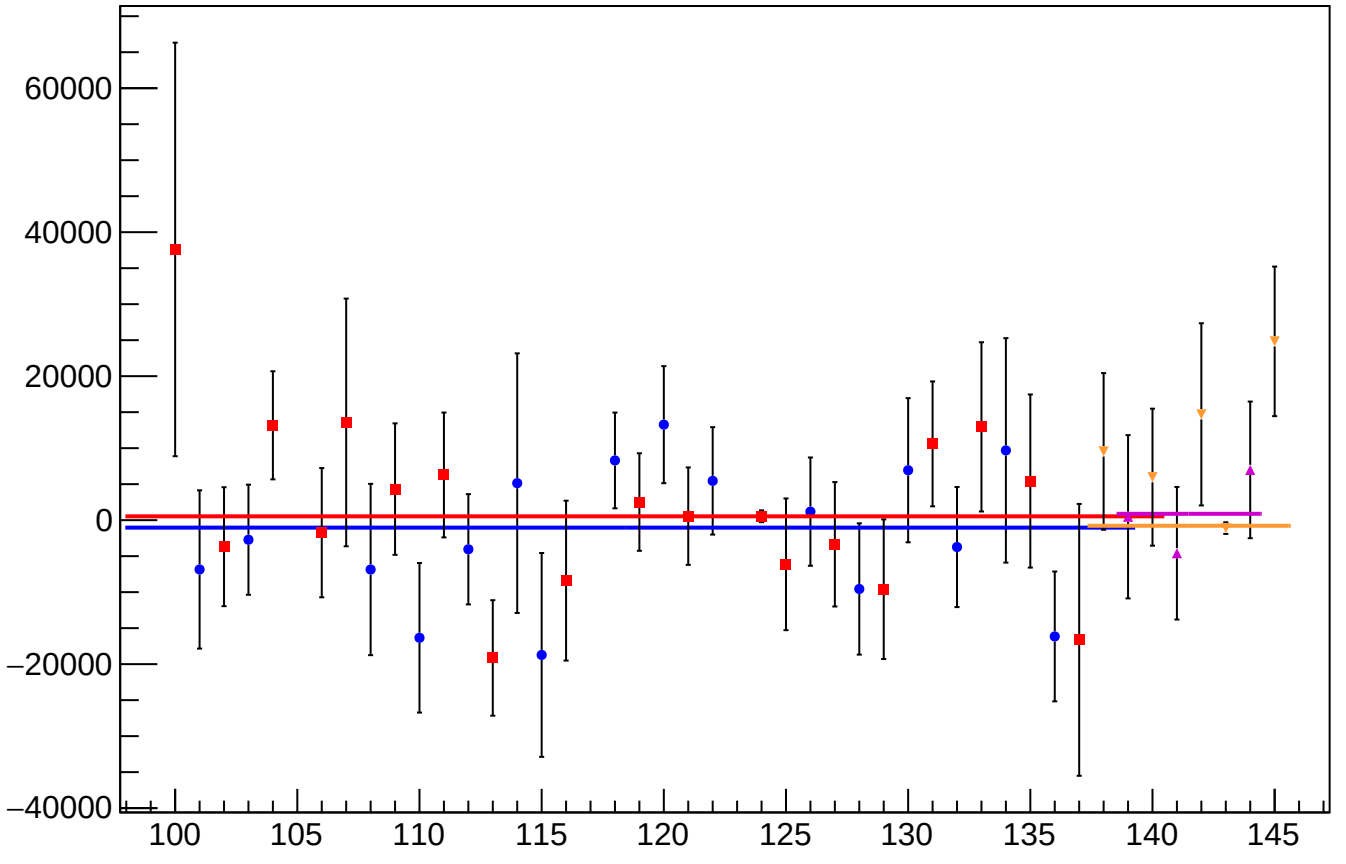
Left: 2930.888+/-0.837 $\chi^2$/NDF: 377039.4/7

Right: 2027.795+/-0.380 $\chi^2$/NDF: 653567.8/34

In: 2161.873+/-0.495 $\chi^2$/NDF:619810.9/18

Out: 2201.681+/-0.484 $\chi^2$/NDF:1372791.9/23

All: 2182.230+/-0.346 $\chi^2$/NDF: 1995908.6/42




Right In: -1037.942+/-2276.180 $\chi^2$/NDF: 15.4/15

Left Out: -780.075+/-798.026 $\chi^2$/NDF:9.1/4

Right Out: 530.662+/-767.947 $\chi^2$/NDF: 18.0/18

Left In: 881.489+/-5709.730 $\chi^2$/NDF:0.8/2

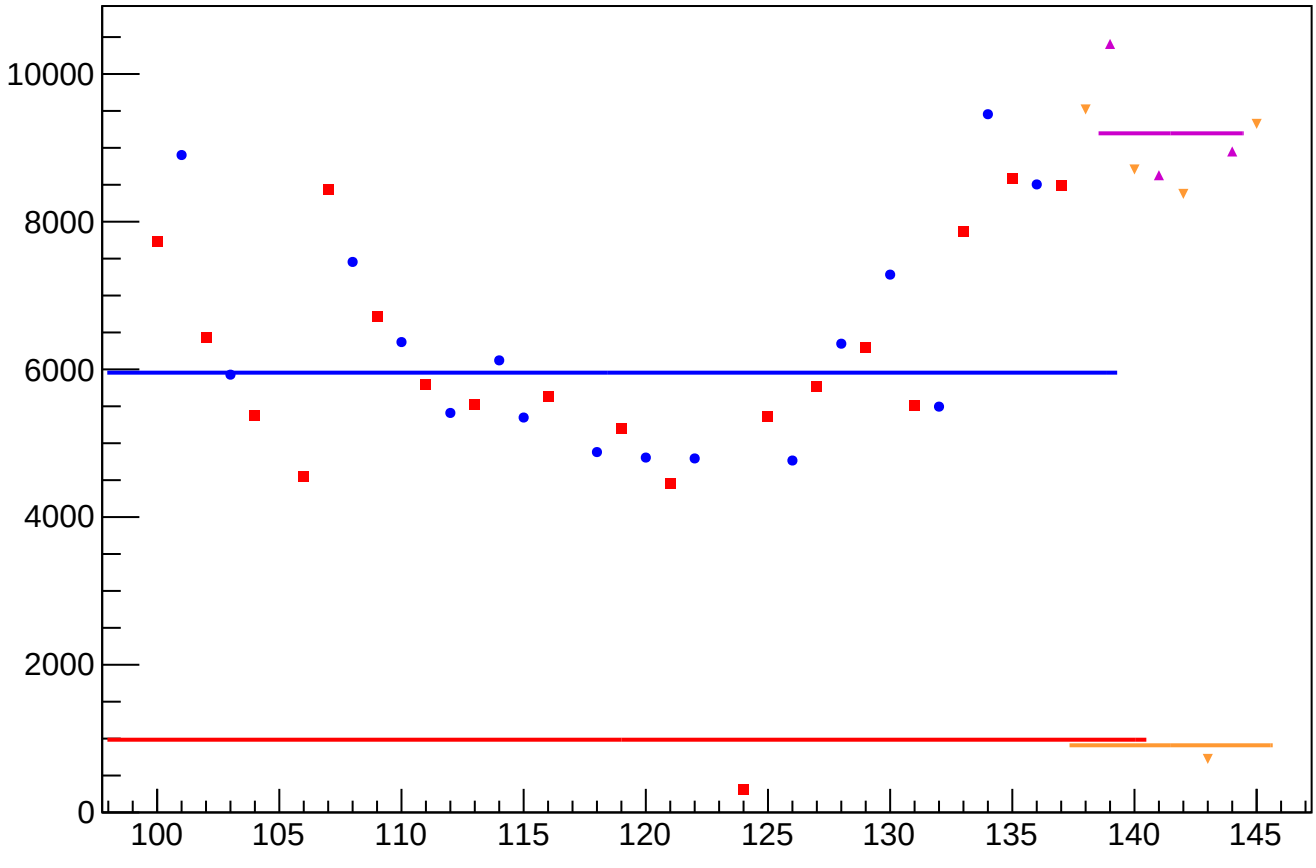
Left: -748.239+/-790.344 $\chi^2$/NDF: 10.0/7

Right: 370.358+/-727.649 $\chi^2$/NDF: 33.8/34

In: -774.733+/-2114.364 $\chi^2$/NDF:16.2/18

Out: -99.539+/-553.349 $\chi^2$/NDF:28.6/23

All: -142.820+/-535.320 $\chi^2$/NDF: 44.9/42




Right In: 5955.638+/-1.610 $\chi^2$/NDF: 689141.5/15

Left Out: 909.548+/-0.564 $\chi^2$/NDF:4709365.0/4

Right Out: 985.045+/-0.543 $\chi^2$/NDF: 11412843.1/18

Left In: 9196.585+/-4.037 $\chi^2$/NDF:31722.7/2

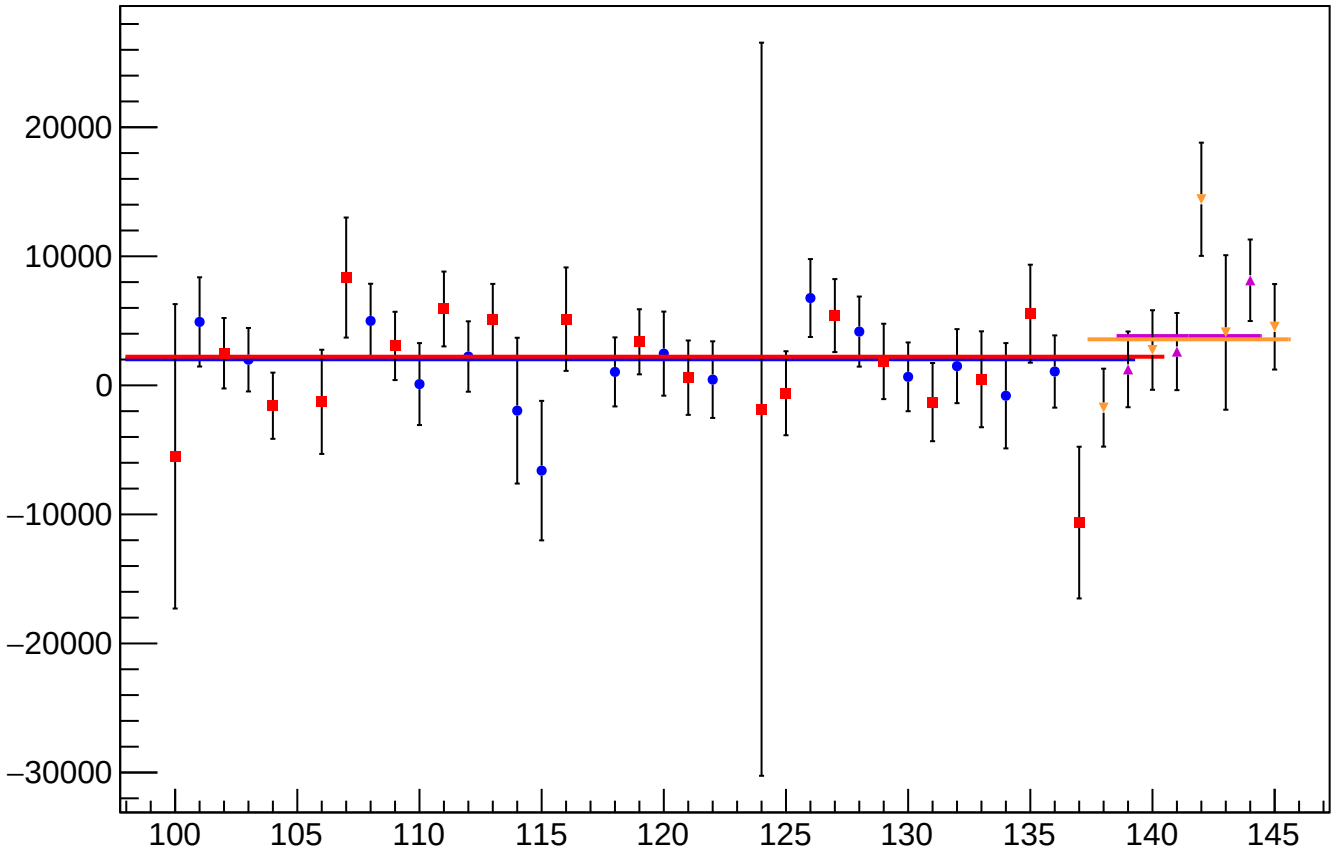
Left: 1068.329+/-0.559 $\chi^2$/NDF: 8873422.9/7

Right: 1493.016+/-0.515 $\chi^2$/NDF: 20664769.2/34

In: 6400.065+/-1.495 $\chi^2$/NDF:1276882.0/18

Out: 948.746+/-0.391 $\chi^2$/NDF:16131501.8/23

All: 1298.183+/-0.379 $\chi^2$/NDF: 29850740.4/4




Right In: 2022.816+/-764.357 $\chi^2$/NDF: 9.6/15

Left Out: 3566.087+/-1610.123 $\chi^2$/NDF:9.4/4

Right Out: 2219.099+/-756.147 $\chi^2$/NDF: 18.1/18

Left In: 3817.608+/-1745.710 $\chi^2$/NDF:2.8/2

Left: 3681.701+/-1183.564 $\chi^2$/NDF: 12.2/7

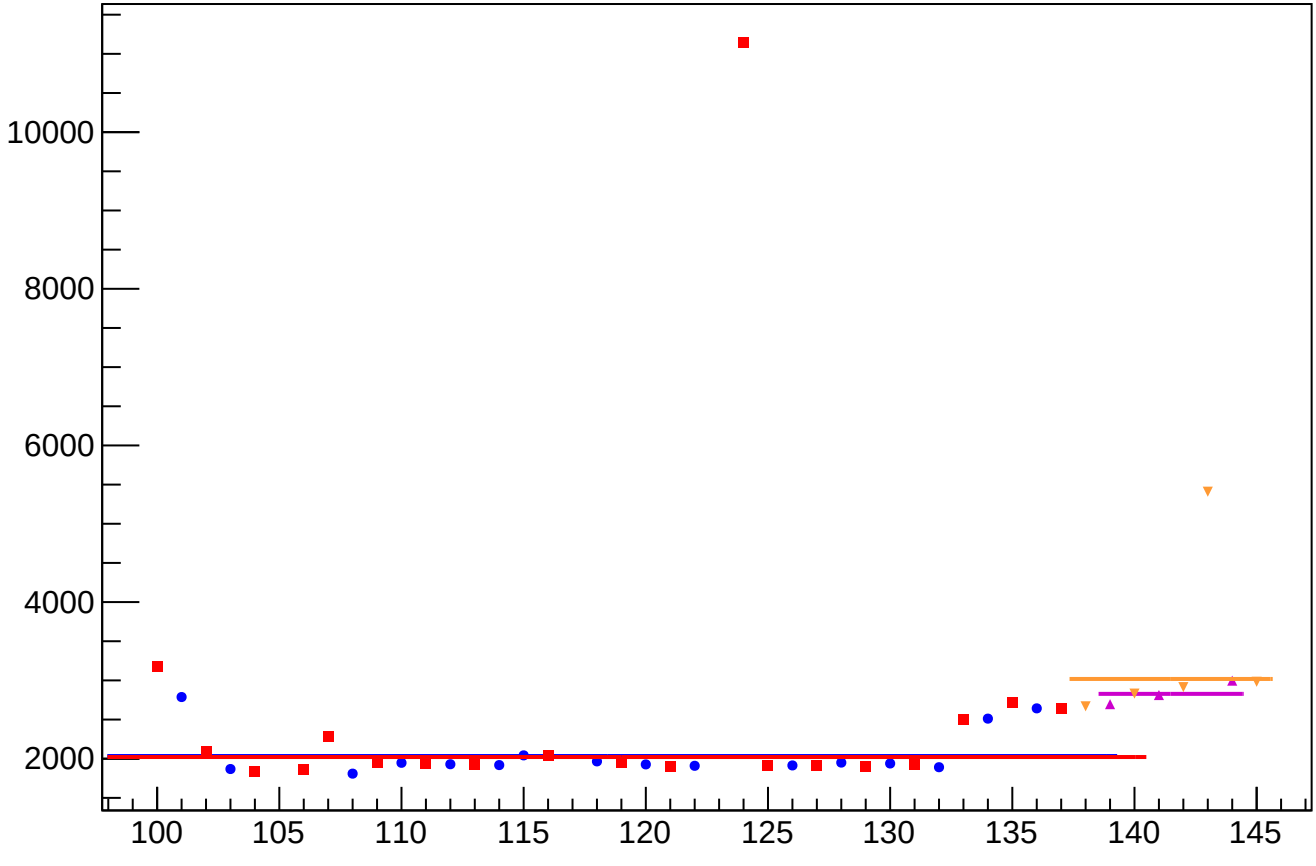
Right: 2122.018+/-537.556 $\chi^2$/NDF: 27.8/34

In: 2311.546+/-700.181 $\chi^2$/NDF:13.3/18

Out: 2462.490+/-684.431 $\chi^2$/NDF:28.1/23

All: 2388.735+/-489.439 $\chi^2$/NDF: 41.4/42

# eigen_cor_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2034.159+/-0.540 $\chi^2$/NDF: 262960.5/15

Left Out: 3018.367+/-1.139 $\chi^2$/NDF:354436.1/4

Right Out: 2021.566+/-0.535 $\chi^2$/NDF: 390333.0/18

Left In: 2828.056+/-1.234 $\chi^2$/NDF:9759.8/2

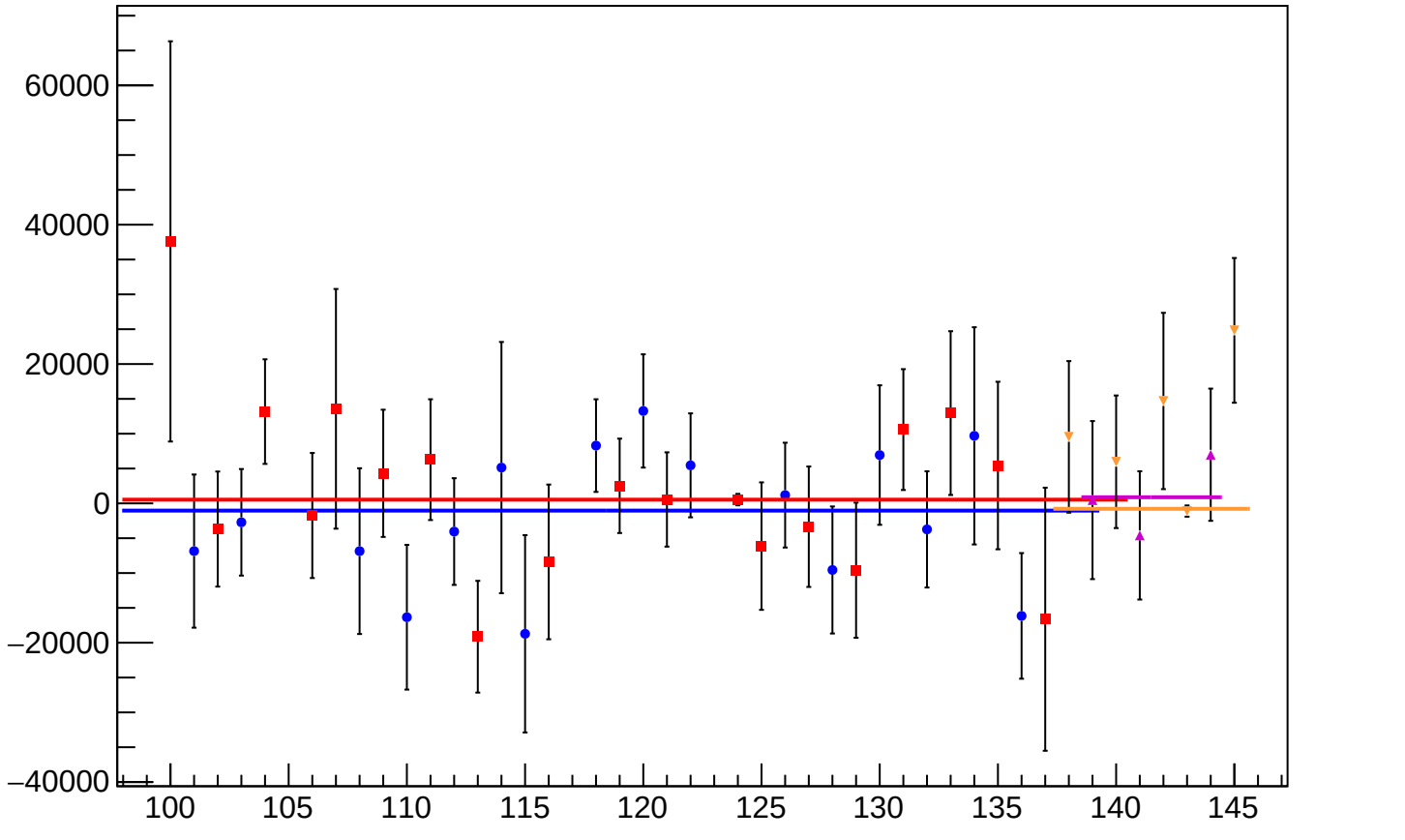
Left: 2930.888+/-0.837 $\chi^2$/NDF: 377039.4/7

Right: 2027.795+/-0.380 $\chi^2$/NDF: 653567.8/34

In: 2161.873+/-0.495 $\chi^2$/NDF:619810.9/18

Out: 2201.681+/-0.484 $\chi^2$/NDF:1372791.9/23

All: 2182.230+/-0.346 $\chi^2$/NDF: 1995908.6/42




Right In: -1037.942+/-2276.180 $\chi^2$/NDF: 15.4/15

Left Out: -780.075+/-798.026 $\chi^2$/NDF:9.1/4

Right Out: 530.662+/-767.947 $\chi^2$/NDF: 18.0/18

Left In: 881.489+/-5709.730 $\chi^2$/NDF:0.8/2

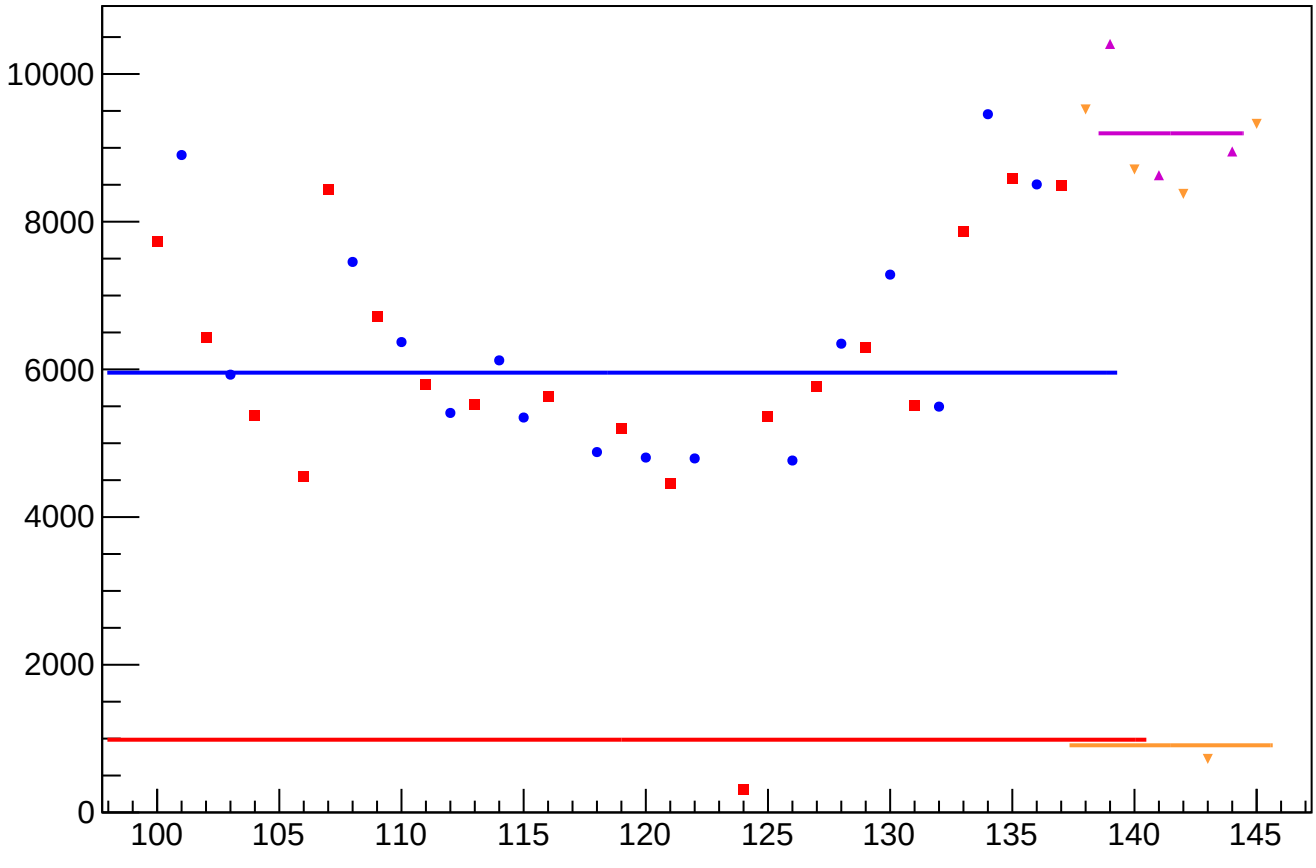
Left: -748.239+/-790.344 $\chi^2$/NDF: 10.0/7

Right: 370.358+/-727.649 $\chi^2$/NDF: 33.8/34

In: -774.733+/-2114.364 $\chi^2$/NDF:16.2/18

Out: -99.539+/-553.349 $\chi^2$/NDF:28.6/23

All: -142.820+/-535.320 $\chi^2$/NDF: 44.9/42




Right In: 5955.638+/-1.610 $\chi^2$/NDF: 689141.5/15

Left Out: 909.548+/-0.564 $\chi^2$/NDF:4709365.0/4

Right Out: 985.045+/-0.543 $\chi^2$/NDF: 11412843.1/18

Left In: 9196.585+/-4.037 $\chi^2$/NDF:31722.7/2

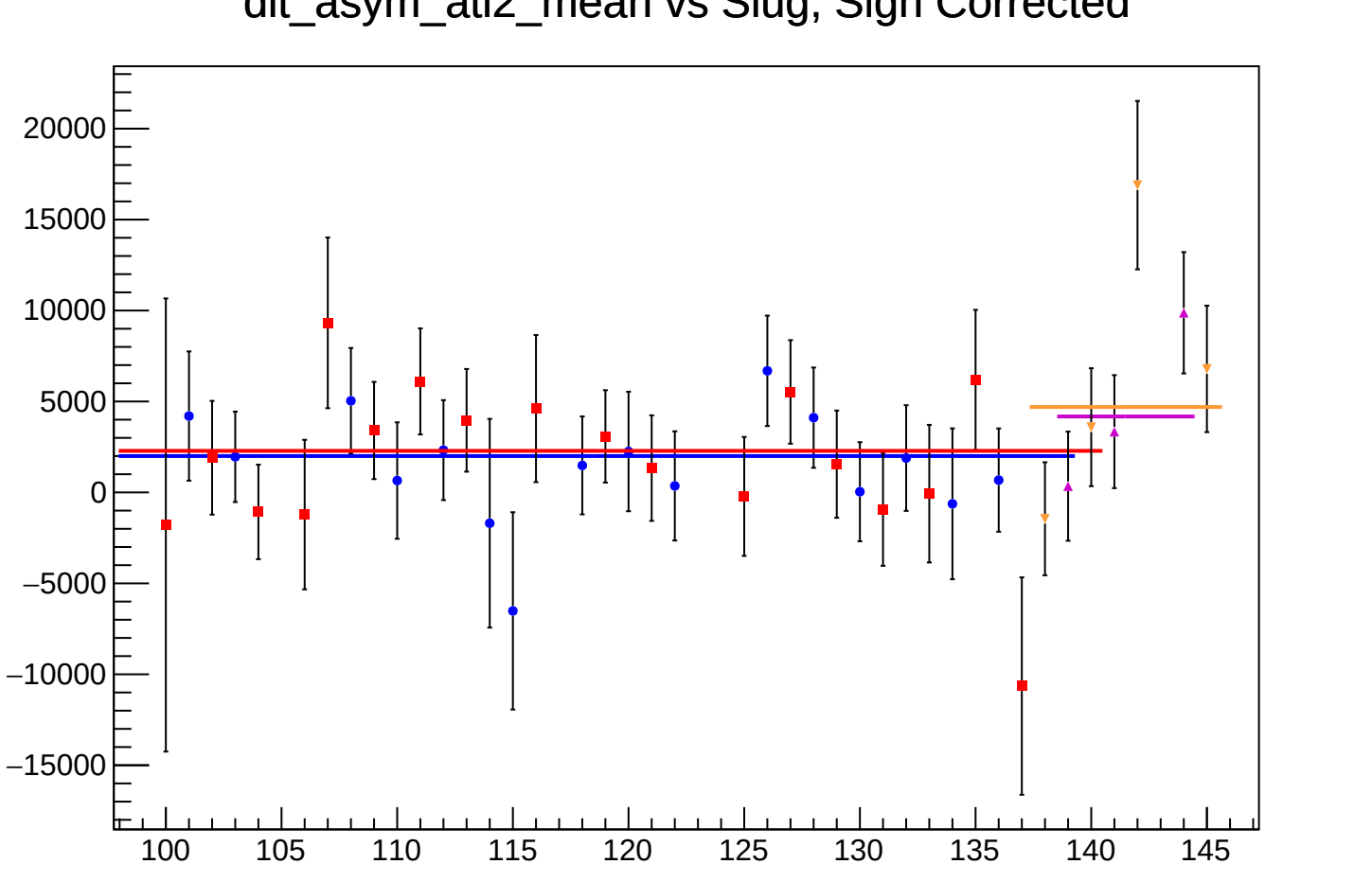
Left: 1068.329+/-0.559 $\chi^2$/NDF: 8873422.9/7

Right: 1493.016+/-0.515 $\chi^2$/NDF: 20664769.2/34

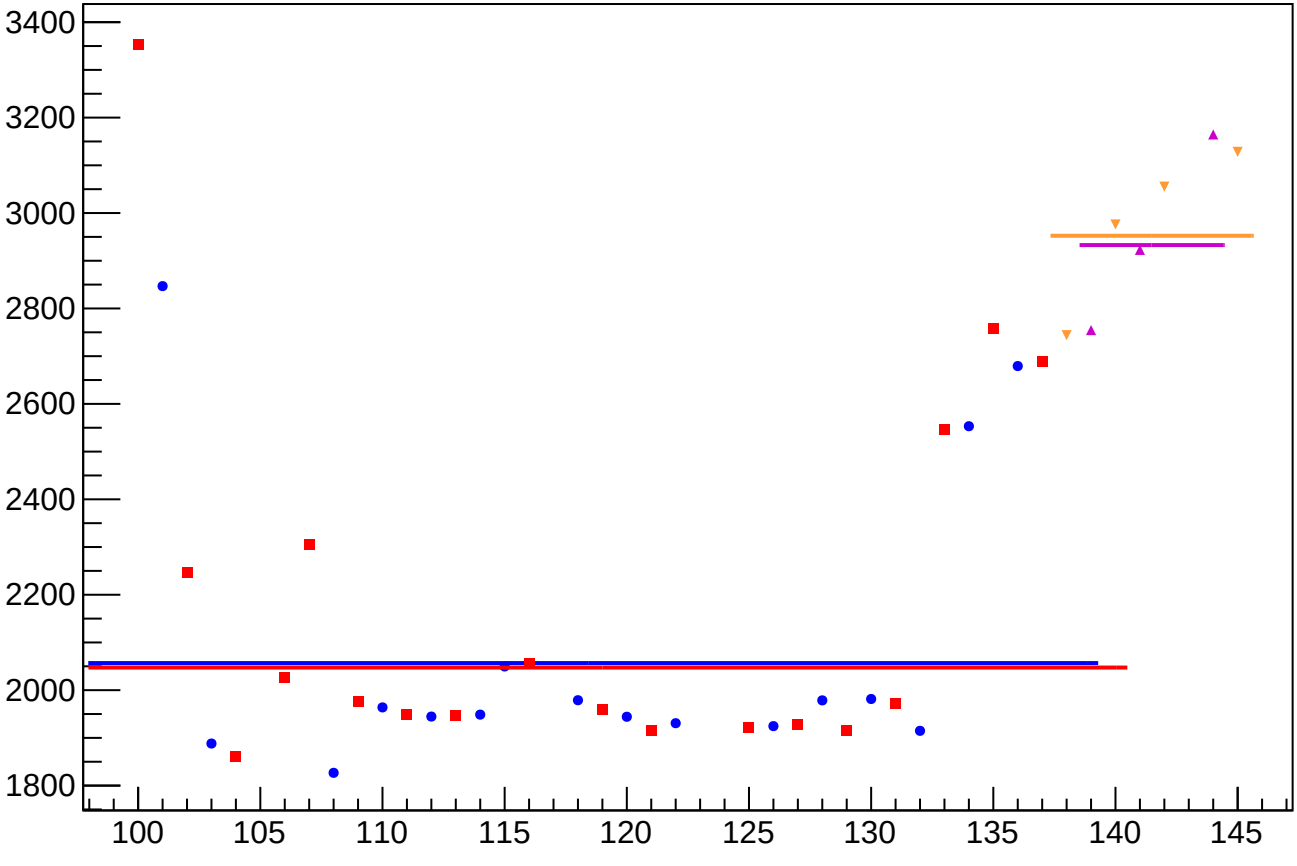
In: 6400.065+/-1.495 $\chi^2$/NDF:1276882.0/18

Out: 948.746+/-0.391 $\chi^2$/NDF:16131501.8/23

All: 1298.183+/-0.379 $\chi^2$/NDF: 29850740.4/4


dit_asym_atl2_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
105
110
115
120
125
130
135
140
145
Right In: 1999.214+/-773.538 χ²/NDF: 9.0/15
Left Out: 4696.397+/-1745.679 χ²/NDF:11.3/3
Right Out: 2285.899+/-771.299 χ²/NDF: 16.7/17
Left In: 4175.900+/-1811.905 χ²/NDF:4.6/2
Left: 4445.834+/-1257.142 χ²/NDF: 16.0/6
Right: 2142.972+/-546.180 χ²/NDF: 25.7/33
In: 2334.778+/-711.418 χ²/NDF:14.8/18
Out: 2679.610+/-705.504 χ²/NDF:29.6/21
All: 2508.633+/-500.944 χ²/NDF: 44.5/40

# dit_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2056.796+/-0.547 $\chi^2$/NDF: 270454.5/15

Left Out: 2952.407+/-1.234 $\chi^2$/NDF:15207.8/3

Right Out: 2047.400+/-0.545 $\chi^2$/NDF: 196523.0/17

Left In: 2932.831+/-1.281 $\chi^2$/NDF:16735.0/2

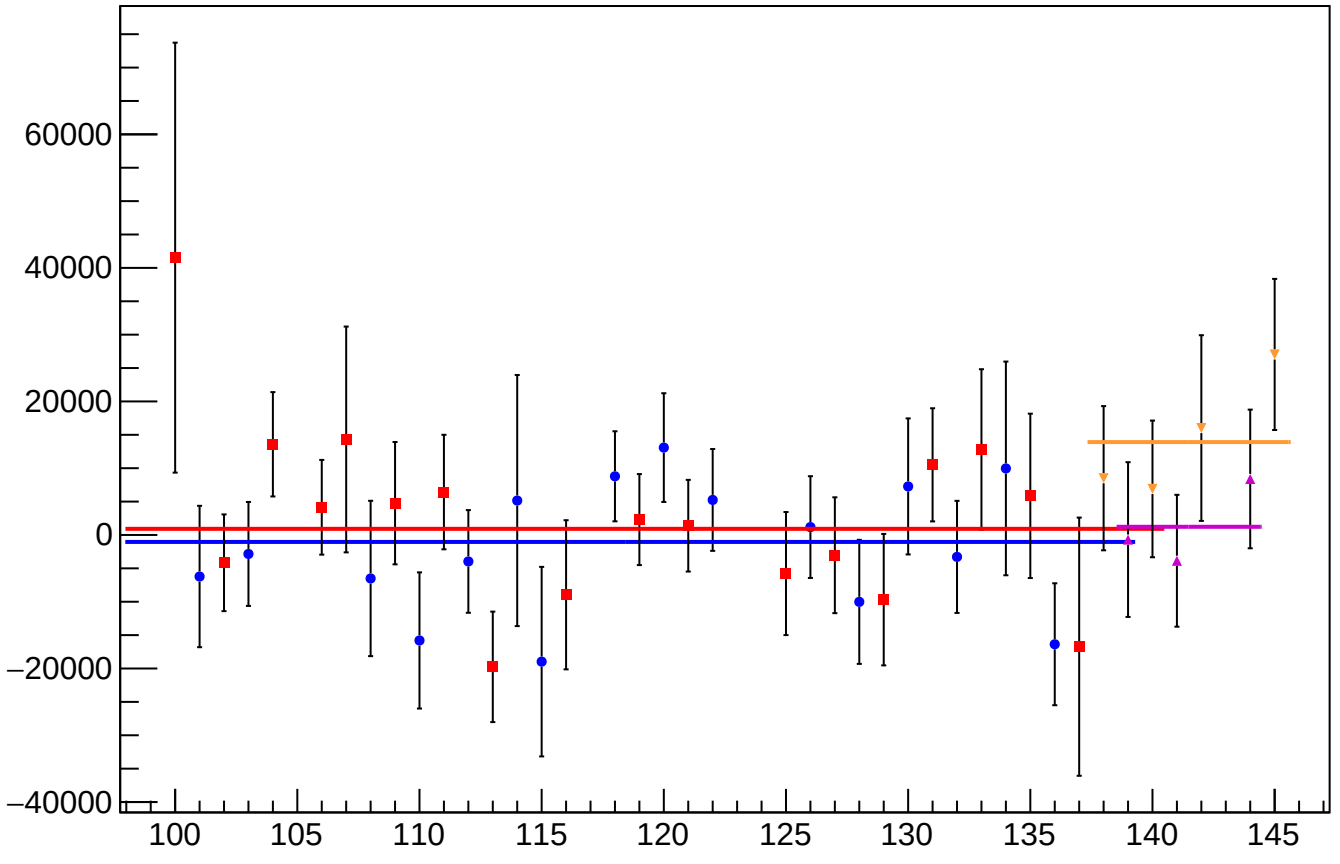
Left: 2942.983+/-0.889 $\chi^2$/NDF: 32063.8/6

Right: 2052.077+/-0.386 $\chi^2$/NDF: 467125.7/33

In: 2191.847+/-0.503 $\chi^2$/NDF:682637.9/18

Out: 2194.843+/-0.498 $\chi^2$/NDF:661689.3/21

All: 2193.360+/-0.354 $\chi^2$/NDF: 1344345.1/40




Right In: -1042.515+/-2294.607 $\chi^2$/NDF: 15.3/15

Left Out: 13910.218+/-5670.132 $\chi^2$/NDF:2.1/3

Right Out: 919.663+/-2150.895 $\chi^2$/NDF: 18.4/17

Left In: 1225.038+/-6088.566 $\chi^2$/NDF:0.8/2

Left: 8018.460+/-4149.437 $\chi^2$/NDF: 5.2/6

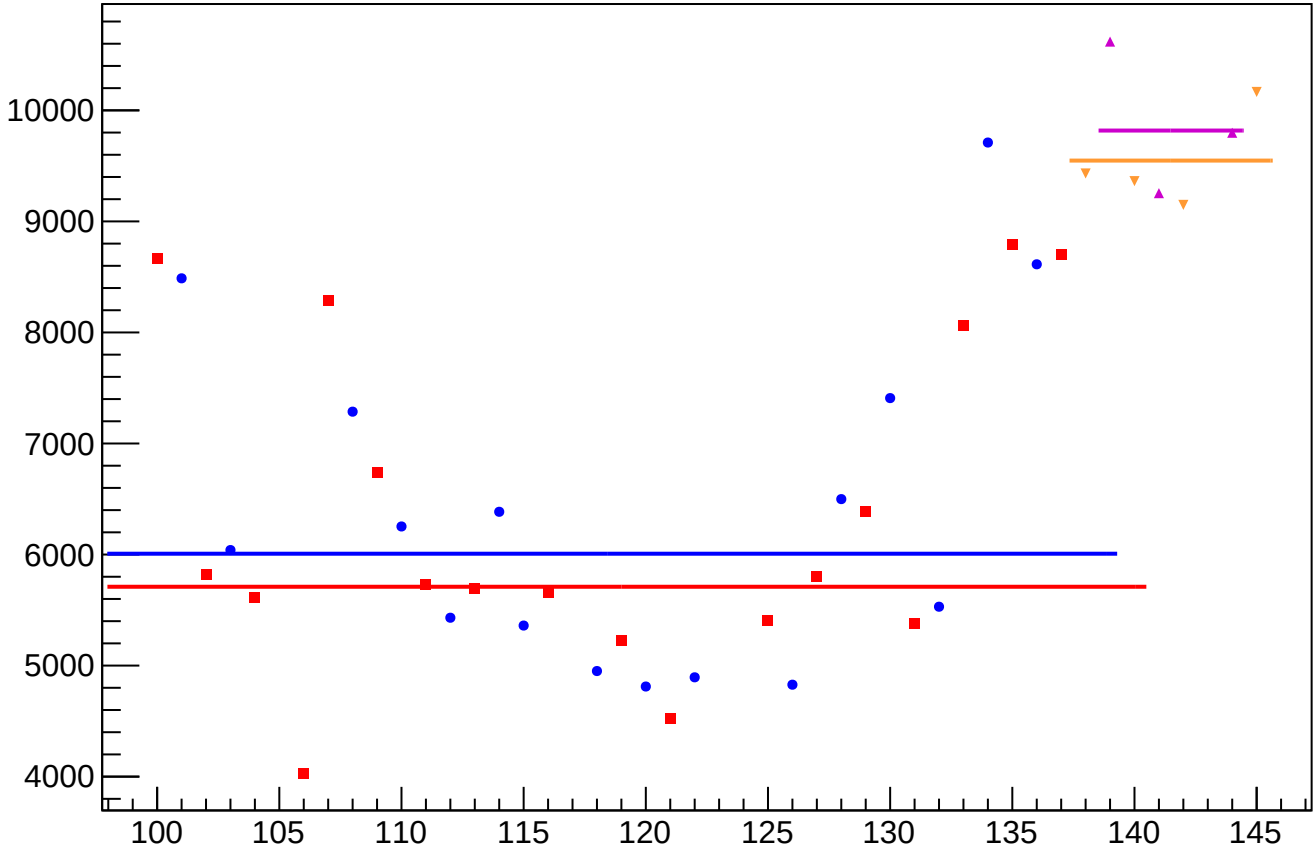
Right: 1.940+/-1569.260 $\chi^2$/NDF: 34.1/33

In: -760.504+/-2147.183 $\chi^2$/NDF:16.2/18

Out: 2553.816+/-2011.063 $\chi^2$/NDF:25.0/21

All: 1005.034+/-1467.800 $\chi^2$/NDF: 42.5/40

# asym_atl2_dit_correction_rms vs Slug, Sign Corrected




Right In: 6007.425+/-1.623 $\chi^2$/NDF: 653996.7/15

Left Out: 9547.681+/-4.009 $\chi^2$/NDF:8499.0/3

Right Out: 5709.903+/-1.521 $\chi^2$/NDF: 535926.2/17

Left In: 9818.149+/-4.305 $\chi^2$/NDF:16084.6/2

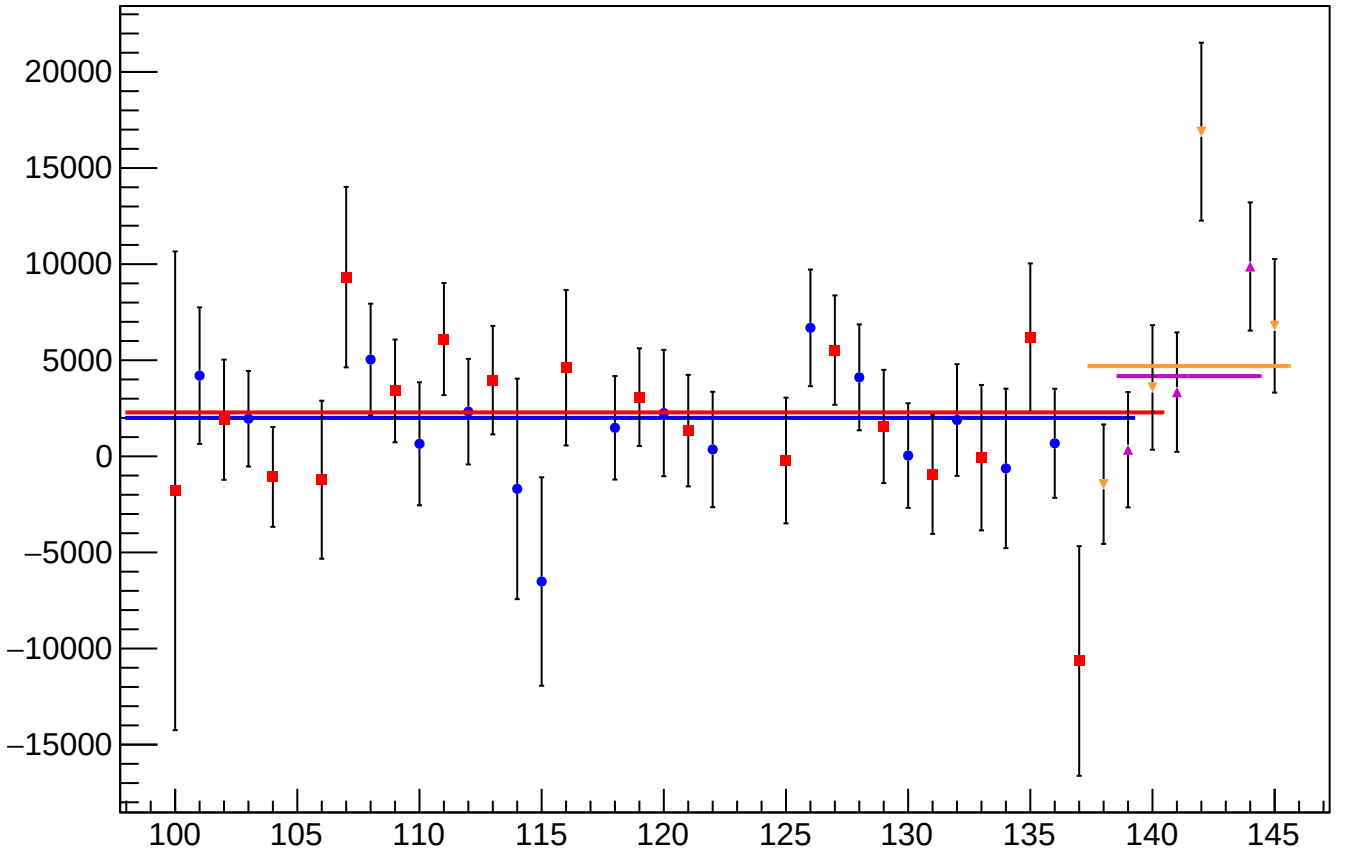
Left: 9673.303+/-2.934 $\chi^2$/NDF: 26697.2/6

Right: 5849.056+/-1.110 $\chi^2$/NDF: 1207820.8/33

In: 6481.357+/-1.518 $\chi^2$/NDF:1356101.2/18

Out: 6192.678+/-1.422 $\chi^2$/NDF:1345395.7/21

All: 6327.577+/-1.038 $\chi^2$/NDF: 2720754.6/40




Right In: 1999.218+/-773.538 $\chi^2$/NDF: 9.0/15

Left Out: 4696.431+/-1745.681 $\chi^2$/NDF:11.3/3

Right Out: 2285.903+/-771.299 $\chi^2$/NDF: 16.7/17

Left In: 4175.905+/-1811.907 $\chi^2$/NDF:4.6/2

Left: 4445.854+/-1257.143 $\chi^2$/NDF: 16.0/6

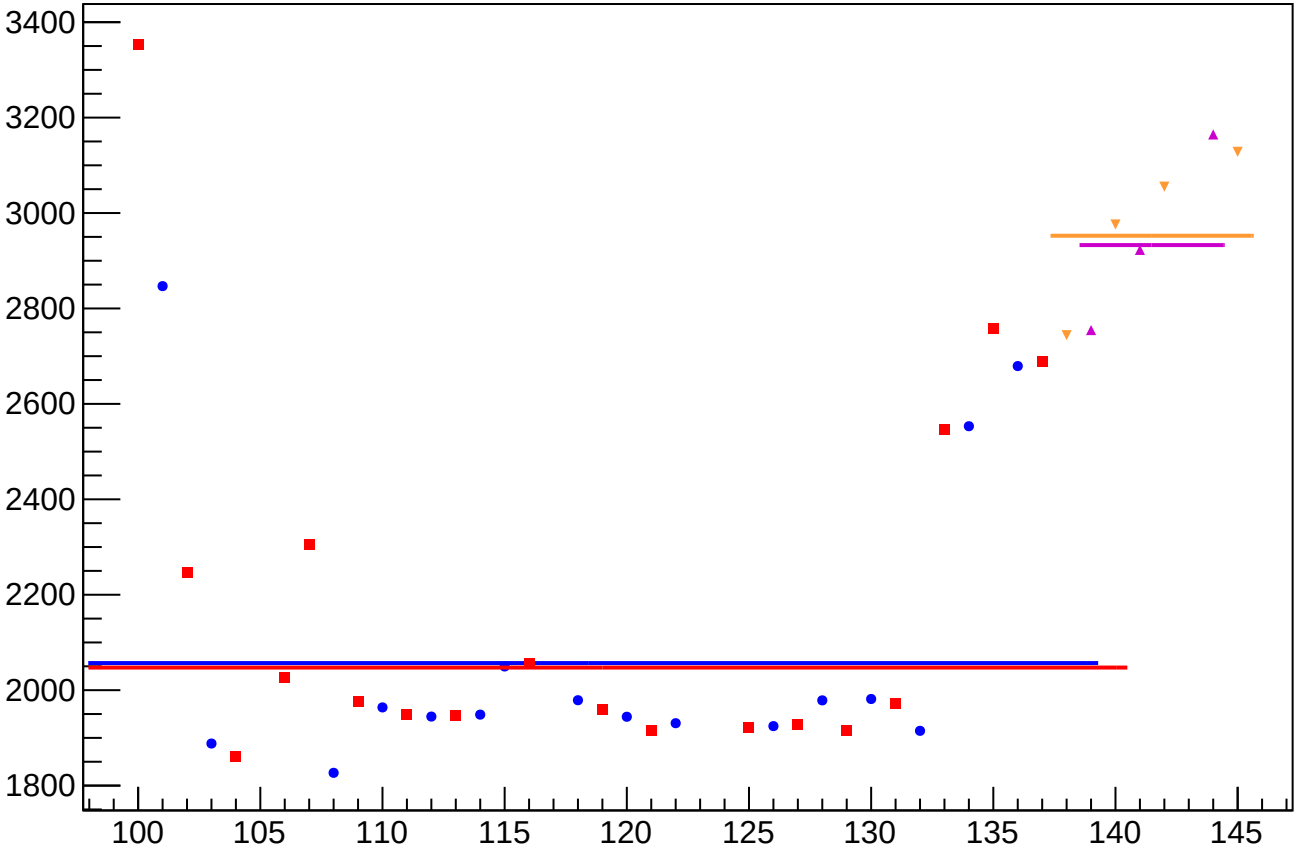
Right: 2142.976+/-546.180 $\chi^2$/NDF: 25.7/33

In: 2334.782+/-711.418 $\chi^2$/NDF:14.8/18

Out: 2679.617+/-705.504 $\chi^2$/NDF:29.6/21

All: 2508.639+/-500.944 $\chi^2$/NDF: 44.5/40

# eigen_dit_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2056.796+/-0.547 $\chi^2$/NDF: 270454.5/15

Left Out: 2952.410+/-1.234 $\chi^2$/NDF:15208.3/3

Right Out: 2047.400+/-0.545 $\chi^2$/NDF: 196523.3/17

Left In: 2932.835+/-1.281 $\chi^2$/NDF:16735.1/2

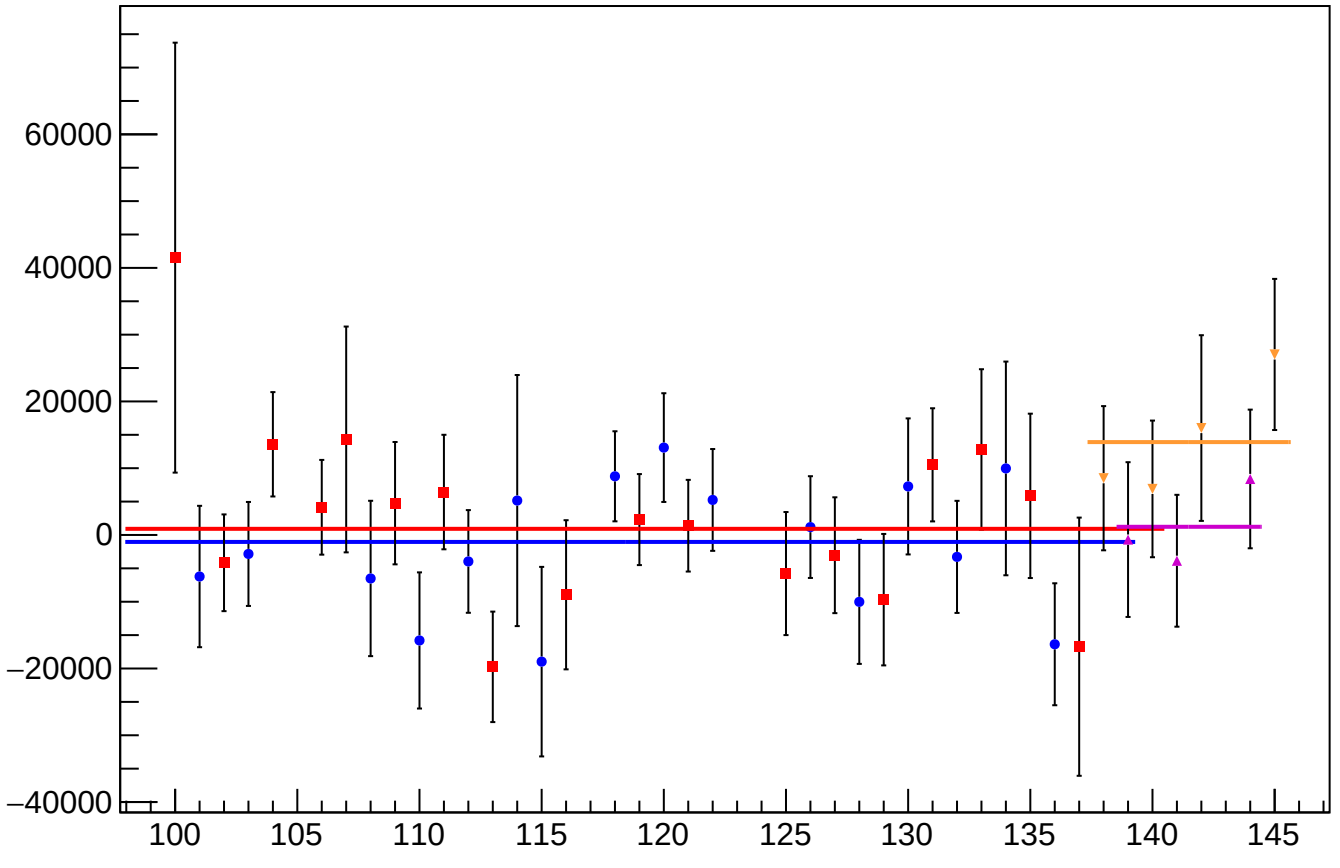
Left: 2942.987+/-0.889 $\chi^2$/NDF: 32064.5/6

Right: 2052.077+/-0.386 $\chi^2$/NDF: 467125.9/33

In: 2191.848+/-0.503 $\chi^2$/NDF:682640.3/18

Out: 2194.843+/-0.498 $\chi^2$/NDF:661692.7/21

All: 2193.360+/-0.354 $\chi^2$/NDF: 1344350.9/40




Right In: -1042.503+/-2294.600 $\chi^2$/NDF: 15.3/15

Left Out: 13910.268+/-5670.148 $\chi^2$/NDF:2.1/3

Right Out: 919.667+/-2150.889 $\chi^2$/NDF: 18.4/17

Left In: 1225.043+/-6088.580 $\chi^2$/NDF:0.8/2

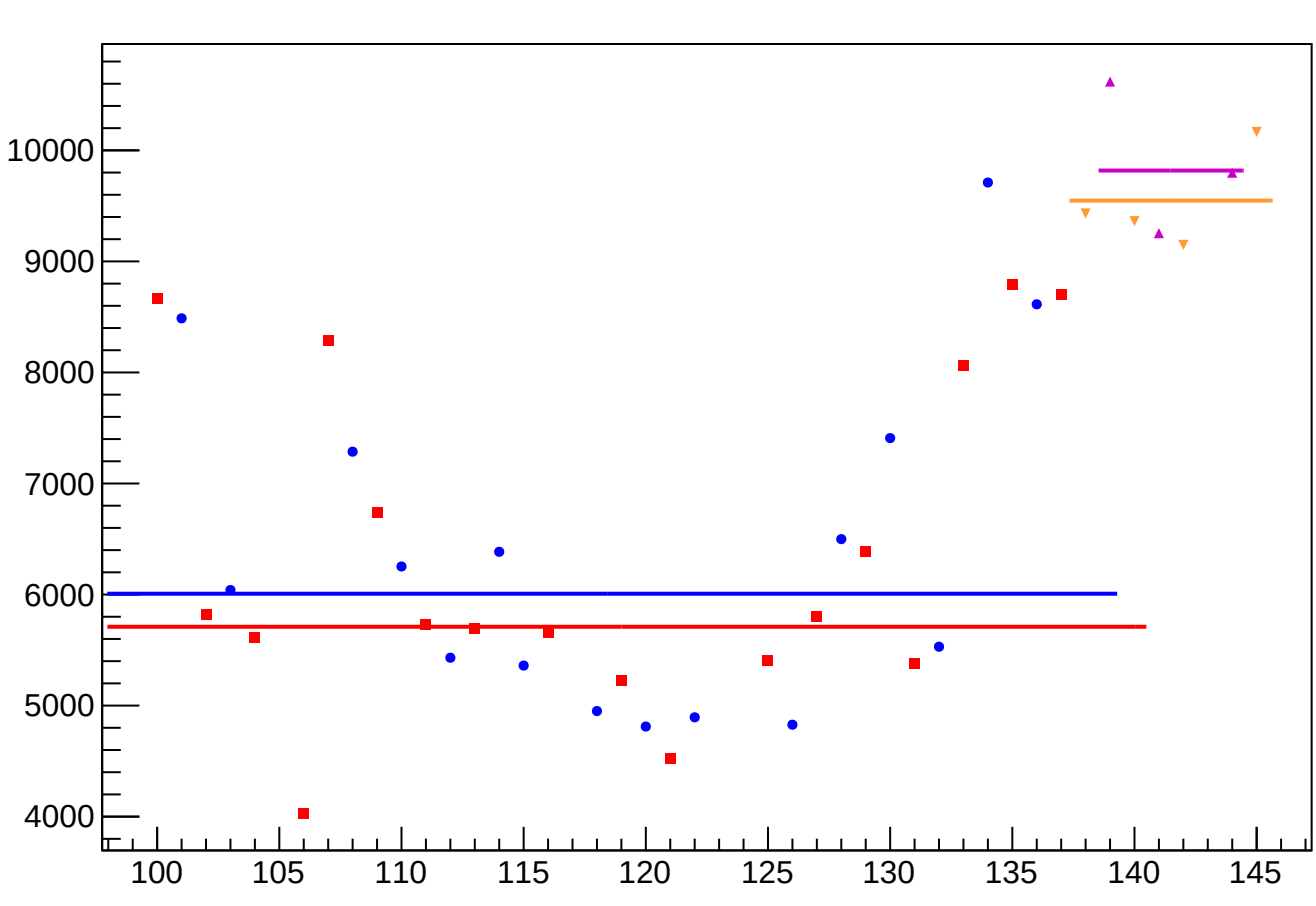
Left: 8018.486+/-4149.447 $\chi^2$/NDF: 5.2/6

Right: 1.948+/-1569.255 $\chi^2$/NDF: 34.1/33

In: -760.496+/-2147.178 $\chi^2$/NDF:16.2/18

Out: 2553.810+/-2011.059 $\chi^2$/NDF:25.0/21

All: 1005.034+/-1467.797 $\chi^2$/NDF: 42.5/40




Right In: 6007.405+/-1.623 $\chi^2$/NDF: 654004.9/15

Left Out: 9547.707+/-4.009 $\chi^2$/NDF:8499.0/3

Right Out: 5709.885+/-1.521 $\chi^2$/NDF: 535929.9/17

Left In: 9818.172+/-4.305 $\chi^2$/NDF:16085.1/2

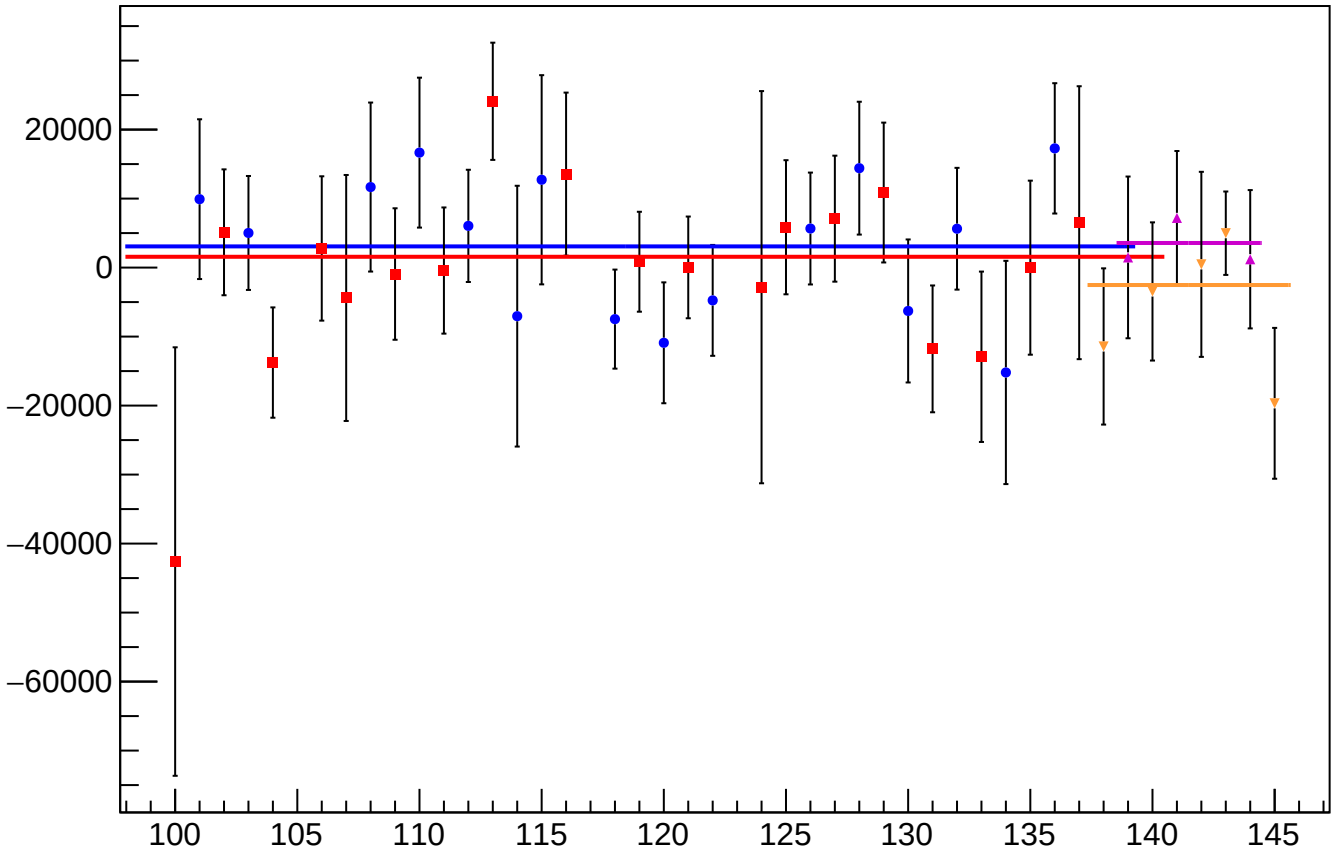
Left: 9673.327+/-2.934 $\chi^2$/NDF: 26697.6/6

Right: 5849.037+/-1.110 $\chi^2$/NDF: 1207832.6/33

In: 6481.338+/-1.518 $\chi^2$/NDF:1356123.0/18

Out: 6192.661+/-1.422 $\chi^2$/NDF:1345414.3/21

All: 6327.560+/-1.038 $\chi^2$/NDF: 2720794.7/40




Right In: 3070.293+/-2420.721 $\chi^2$/NDF: 14.9/15

Left Out: -2526.999+/-4114.196 $\chi^2$/NDF:4.7/4

Right Out: 1567.088+/-2335.884 $\chi^2$/NDF: 19.2/18

Left In: 3565.826+/-5989.838 $\chi^2$/NDF:0.2/2

Left: -573.940+/-3391.278 $\chi^2$/NDF: 5.6/7

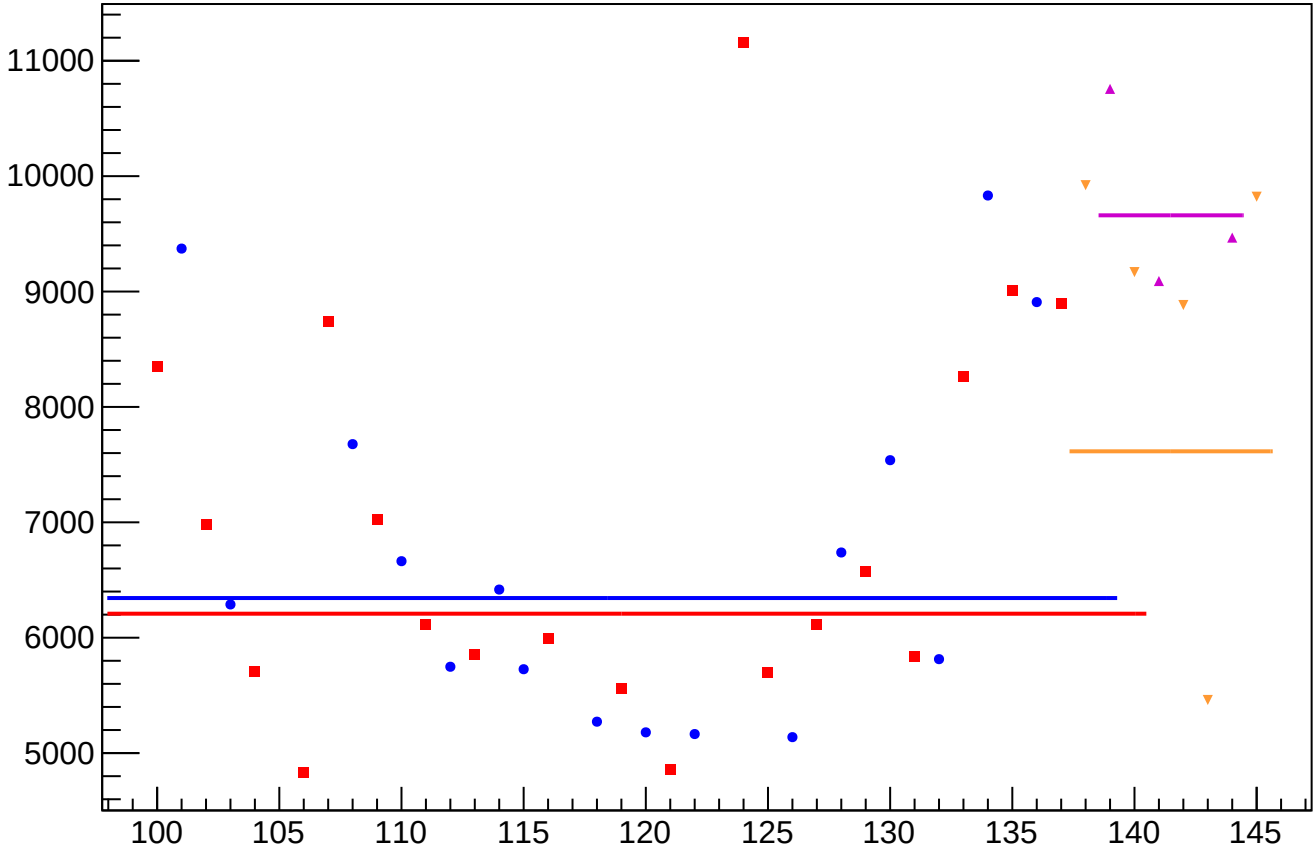
Right: 2291.888+/-1680.911 $\chi^2$/NDF: 34.3/34

In: 3139.865+/-2244.366 $\chi^2$/NDF:15.1/18

Out: 569.061+/-2031.316 $\chi^2$/NDF:24.6/23

All: 1726.681+/-1506.060 $\chi^2$/NDF: 40.5/42

# asym_atl2_rms vs Slug, Sign Corrected




Right In: 6343.796+/-1.712 $\chi^2$/NDF: 621240.2/15

Left Out: 7615.374+/-2.909 $\chi^2$/NDF:484748.0/4

Right Out: 6208.099+/-1.652 $\chi^2$/NDF: 471840.9/18

Left In: 9660.557+/-4.235 $\chi^2$/NDF:25128.0/2

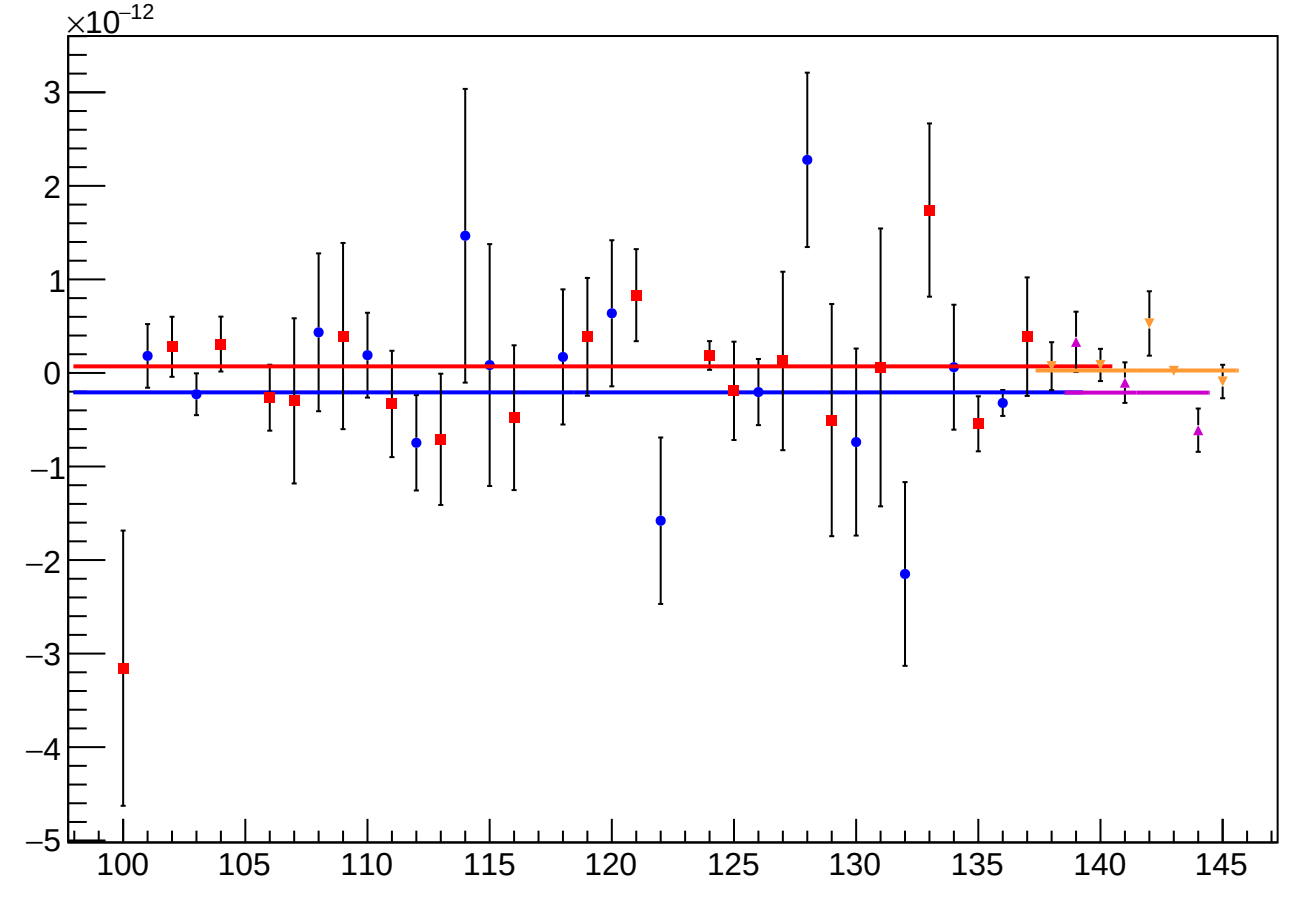
Left: 8270.959+/-2.398 $\chi^2$/NDF: 668300.1/7

Right: 6273.528+/-1.189 $\chi^2$/NDF: 1096335.5/34

In: 6809.458+/-1.587 $\chi^2$/NDF:1173508.7/18

Out: 6551.153+/-1.436 $\chi^2$/NDF:1133547.1/23

All: 6667.466+/-1.065 $\chi^2$/NDF: 2321618.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:6.1/2

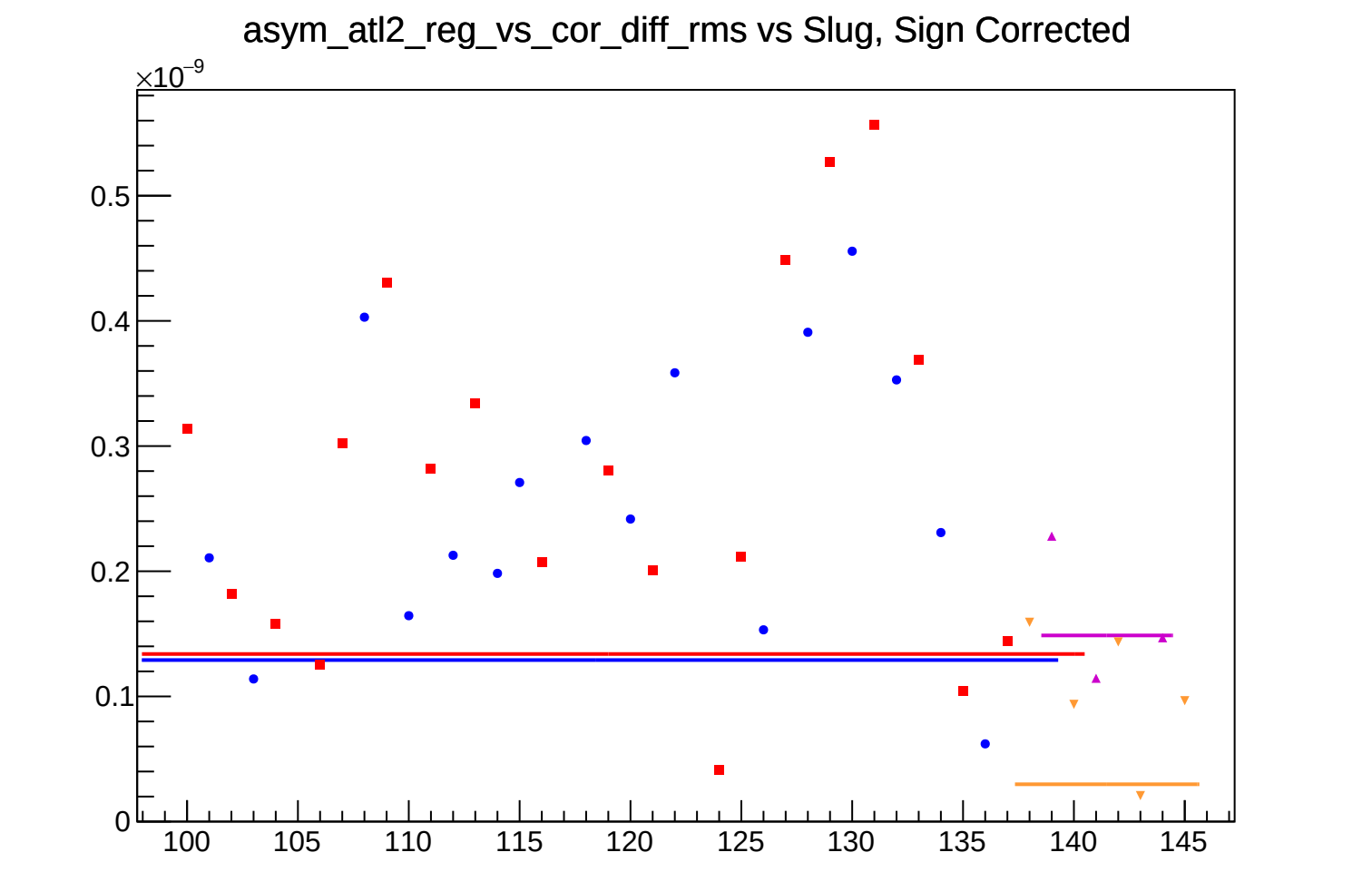
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.4/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:27.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 58.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1720321.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1411111.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2304489.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:170955.6/2

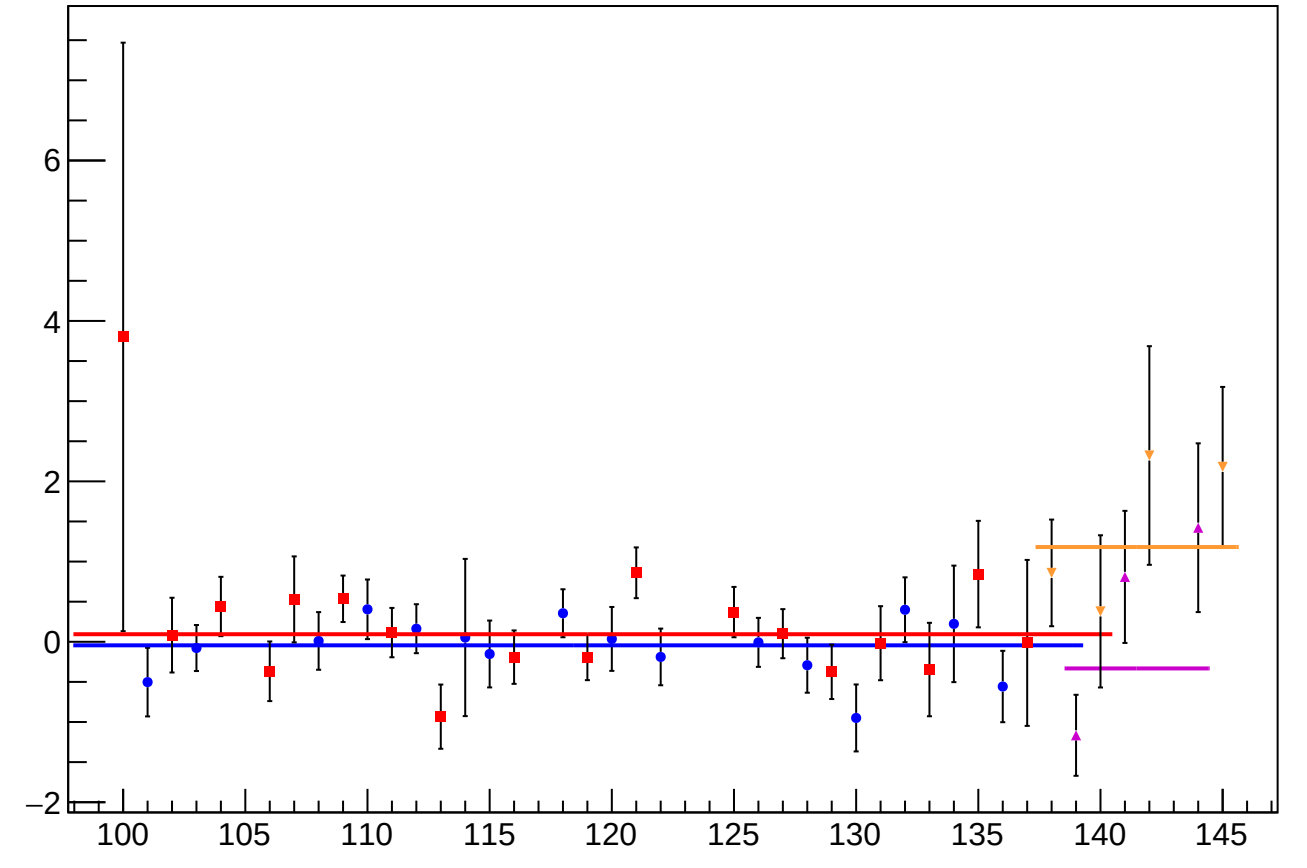
Left: 0.000+/-0.000 $\chi^2$/NDF: 2909132.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4027379.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:1917739.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5818000.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 10157653.8/42




Right In: -0.044+/-0.094 $\chi^2$/NDF: 13.1/15

Left Out: 1.181+/-0.451 $\chi^2$/NDF:2.7/3

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.332+/-0.398 $\chi^2$/NDF:7.4/2

Left: 0.331+/-0.299 $\chi^2$/NDF: 16.4/6

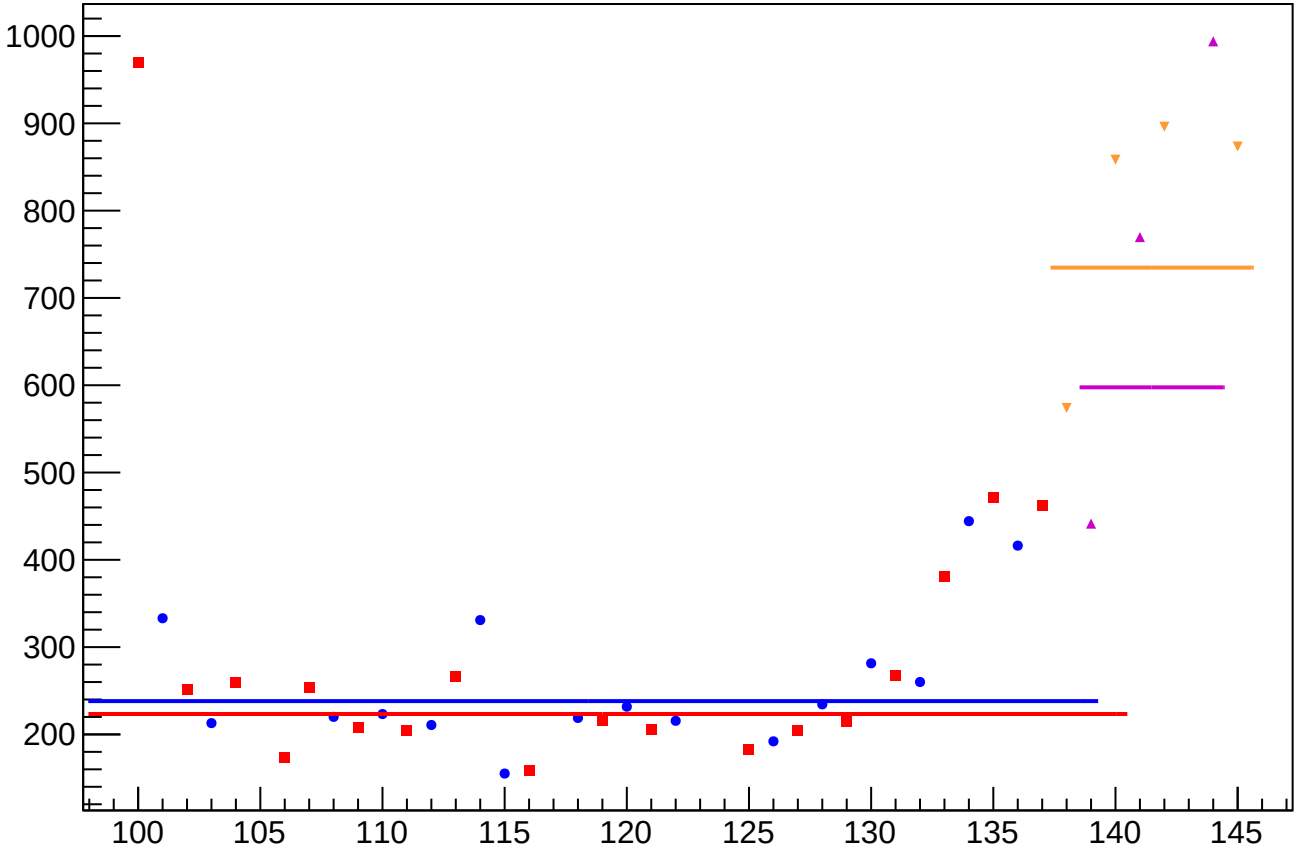
Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.059+/-0.091 $\chi^2$/NDF:21.0/18

Out: 0.136+/-0.088 $\chi^2$/NDF:33.5/21

All: 0.042+/-0.063 $\chi^2$/NDF: 56.9/40

# asym_atl2_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807205.2/15

Left Out: 734.740+/-0.319 $\chi^2$/NDF:217837.9/3

Right Out: 223.388+/-0.064 $\chi^2$/NDF: 862425.5/17

Left In: 597.590+/-0.282 $\chi^2$/NDF:562533.8/2

Left: 657.725+/-0.211 $\chi^2$/NDF: 884307.7/6

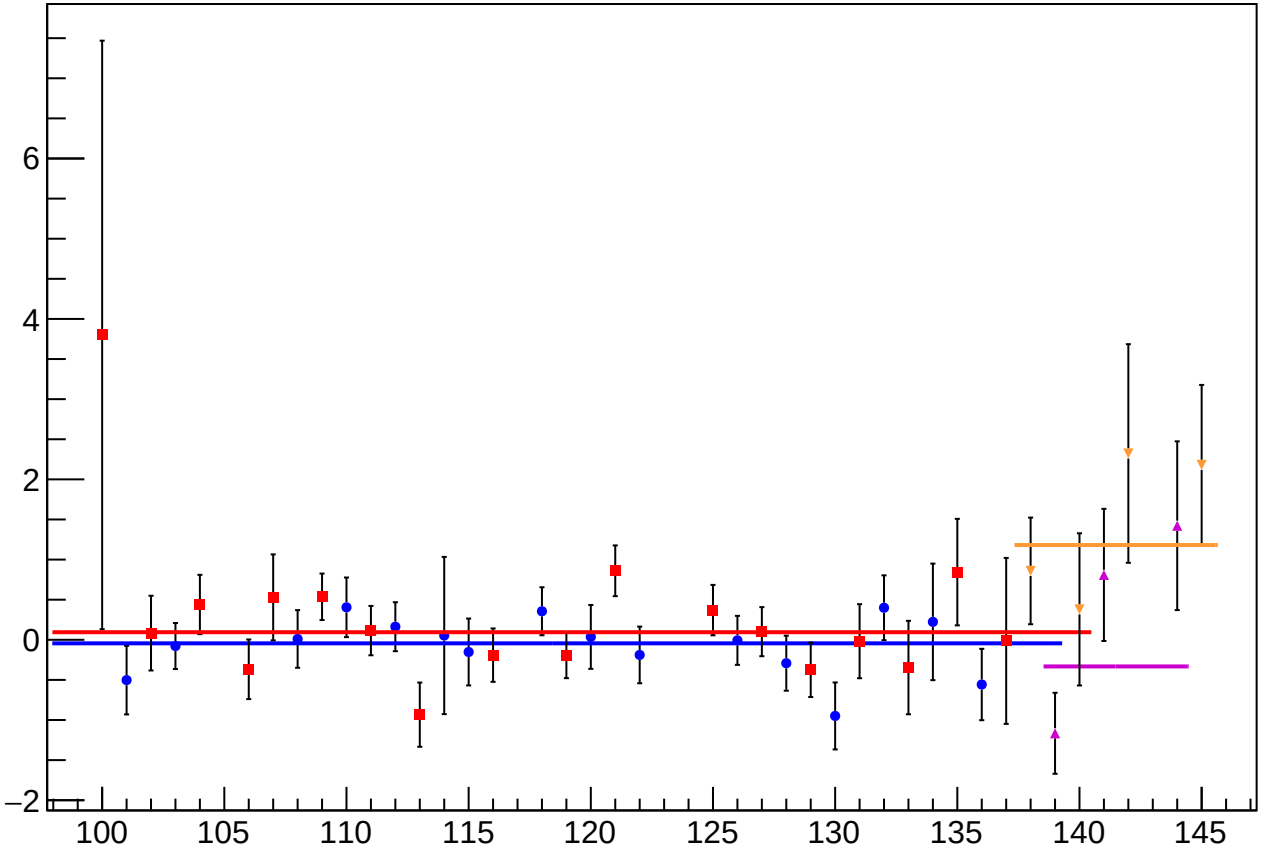
Right: 230.474+/-0.046 $\chi^2$/NDF: 1695464.7/33

In: 257.044+/-0.065 $\chi^2$/NDF:2912253.2/18

Out: 243.000+/-0.062 $\chi^2$/NDF:3554573.2/21

All: 249.787+/-0.045 $\chi^2$/NDF: 6491280.6/40

asym_atl2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.044+/-0.094 $\chi^2$/NDF: 13.1/15

Left Out: 1.181+/-0.451 $\chi^2$/NDF:2.7/3

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.332+/-0.398 $\chi^2$/NDF:7.4/2

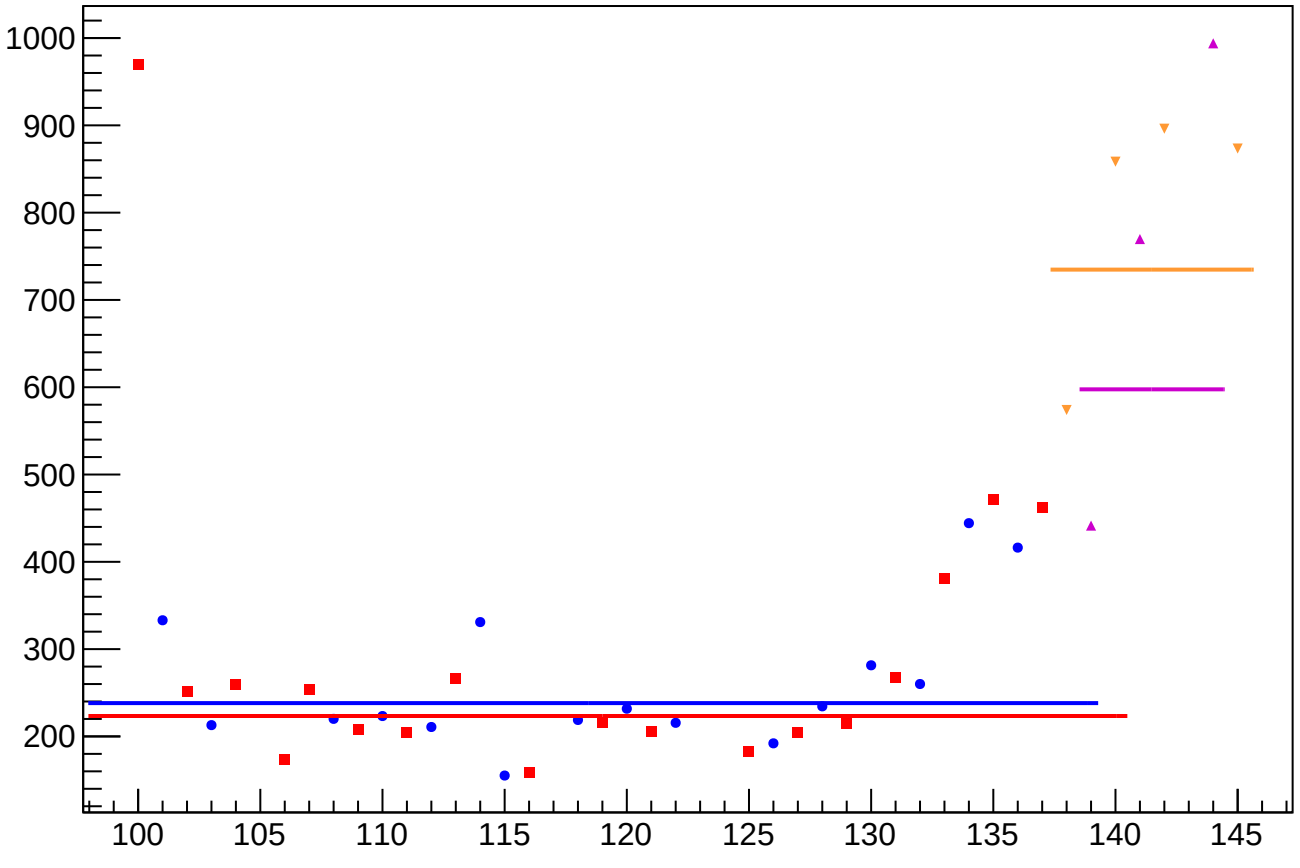
Left: 0.331+/-0.299 $\chi^2$/NDF: 16.4/6

Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.059+/-0.091 $\chi^2$/NDF:21.0/18

Out: 0.136+/-0.088 $\chi^2$/NDF:33.5/21

All: 0.042+/-0.063 $\chi^2$/NDF: 56.9/40




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807205.2/15

Left Out: 734.740+/-0.319 $\chi^2$/NDF:217837.9/3

Right Out: 223.388+/-0.064 $\chi^2$/NDF: 862425.5/17

Left In: 597.590+/-0.282 $\chi^2$/NDF:562533.8/2

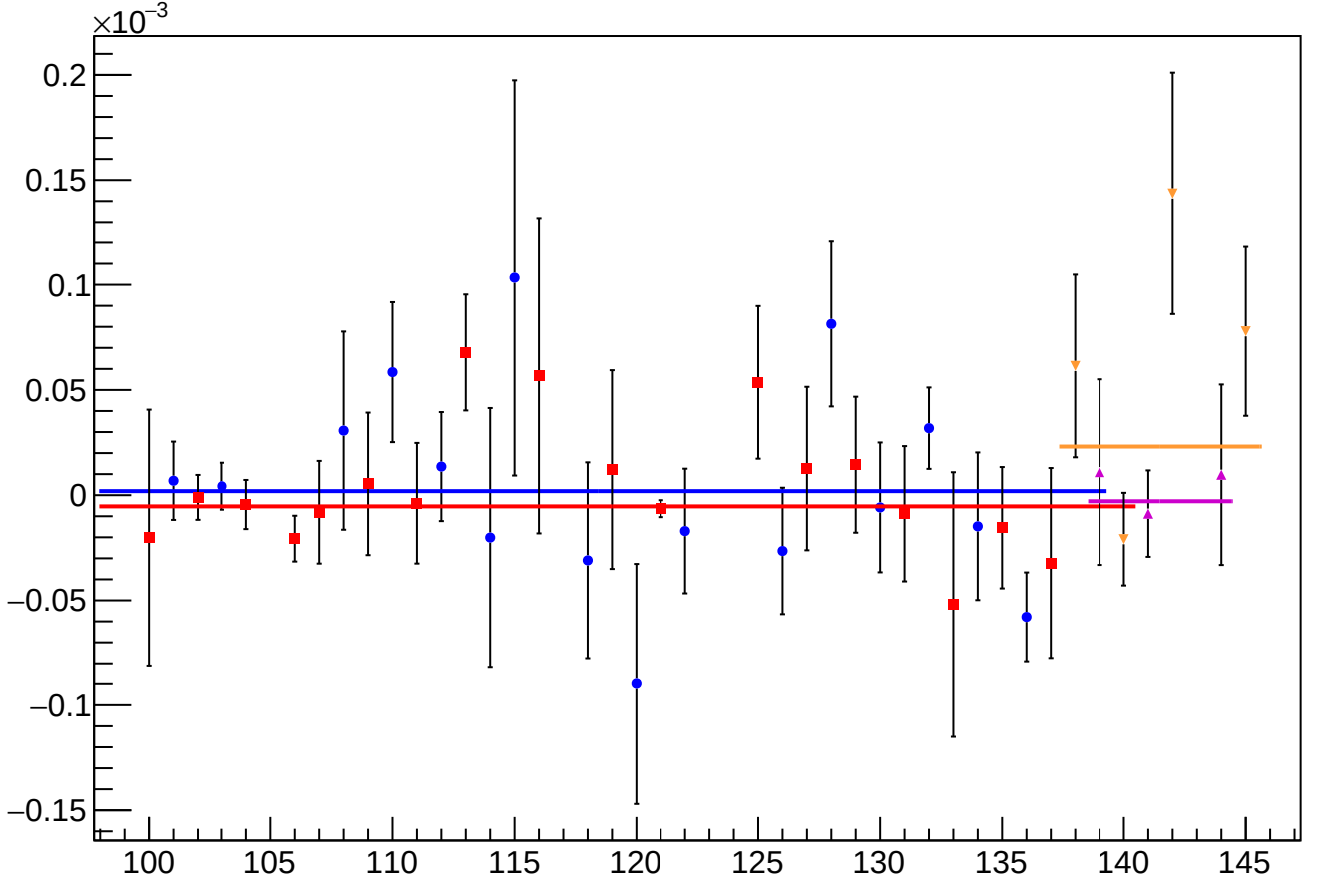
Left: 657.725+/-0.211 $\chi^2$/NDF: 884307.7/6

Right: 230.474+/-0.046 $\chi^2$/NDF: 1695464.7/33

In: 257.044+/-0.065 $\chi^2$/NDF:2912253.2/18

Out: 243.000+/-0.062 $\chi^2$/NDF:3554573.2/21

All: 249.787+/-0.045 $\chi^2$/NDF: 6491280.6/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 24.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.0/3

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

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.3/2

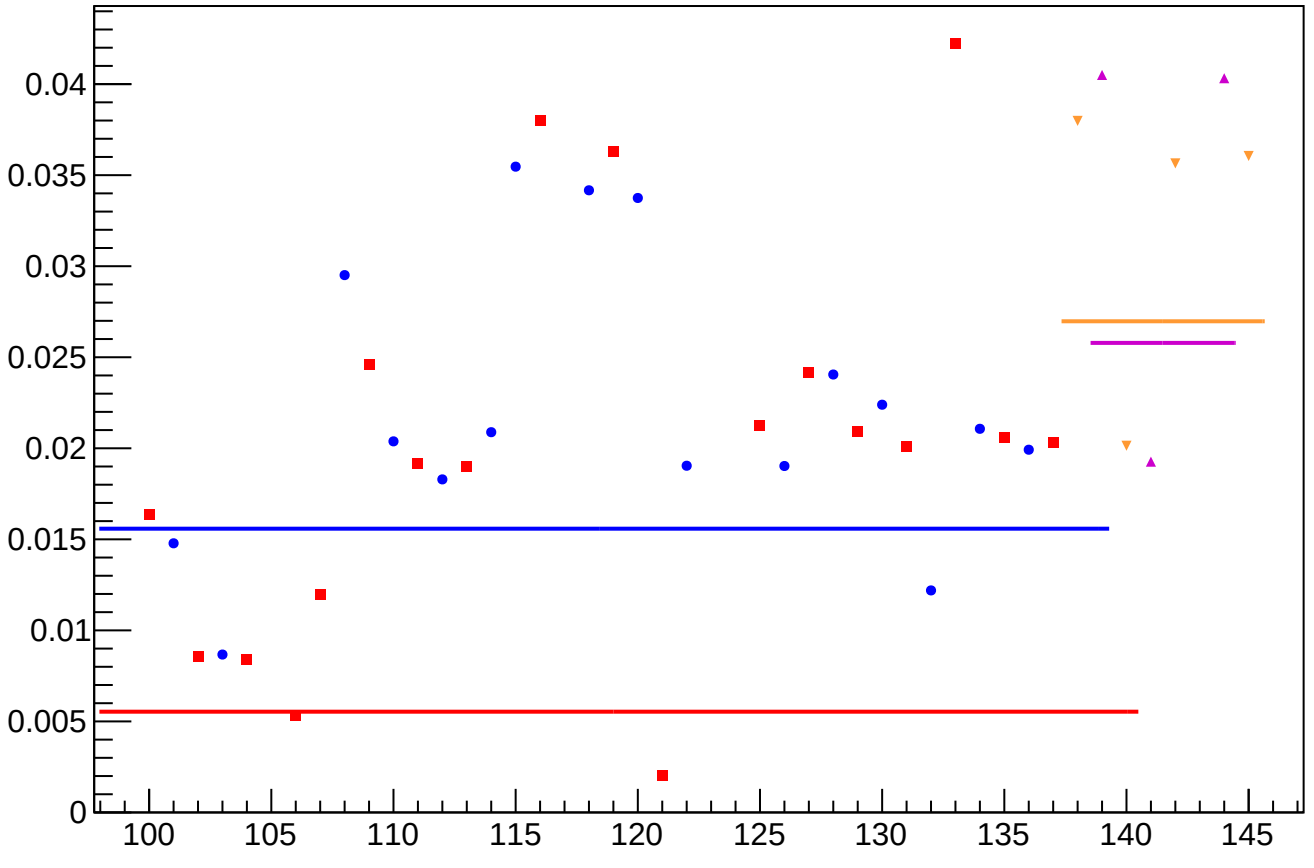
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.5/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:24.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:28.3/21

All: -0.000+/-0.000 $\chi^2$/NDF: 53.4/40




Right In: 0.016+/-0.000 $\chi^2$/NDF: 2074656.7/15

Left Out: 0.027+/-0.000 $\chi^2$/NDF:468943.7/3

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 7954965.8/17

Left In: 0.026+/-0.000 $\chi^2$/NDF:653961.4/2

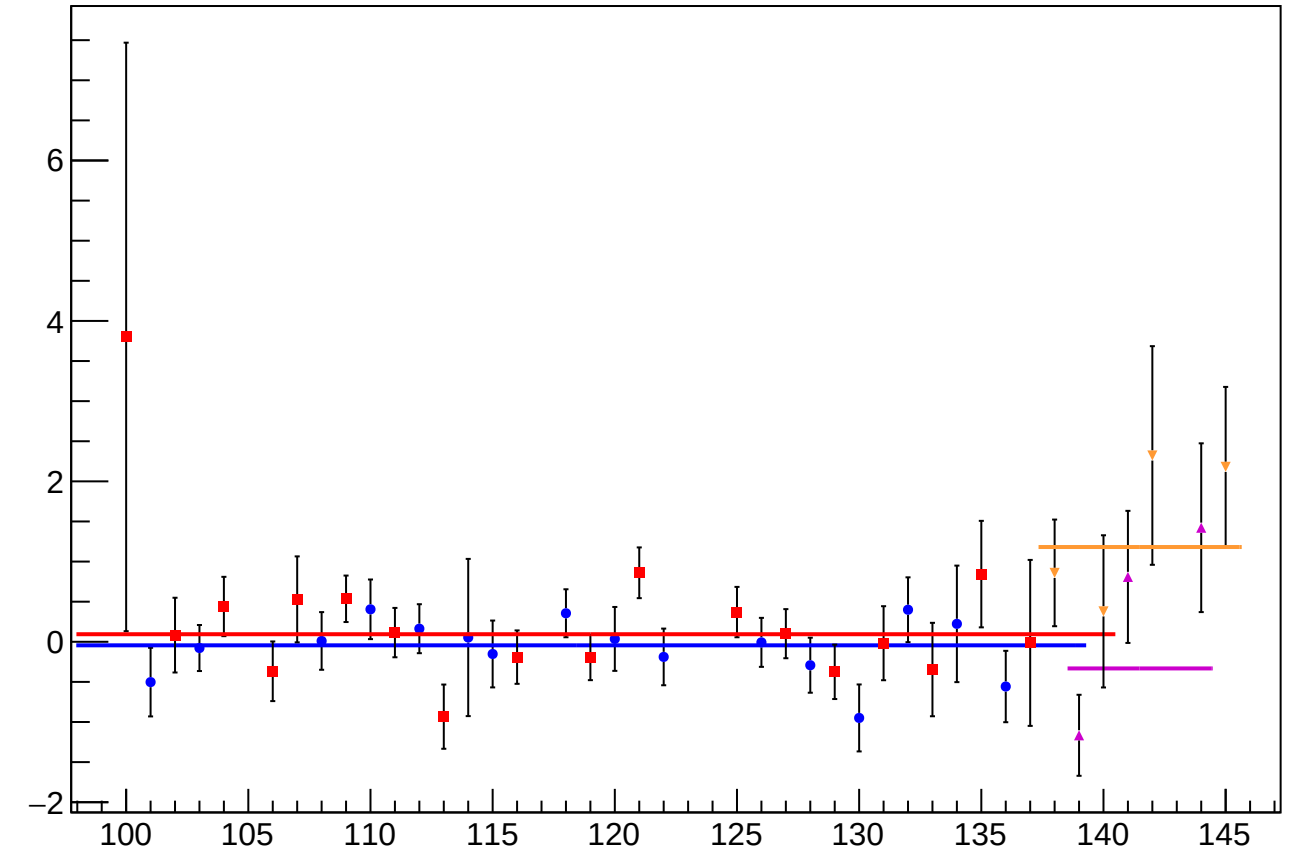
Left: 0.026+/-0.000 $\chi^2$/NDF: 1127794.2/6

Right: 0.008+/-0.000 $\chi^2$/NDF: 13999634.8/33

In: 0.017+/-0.000 $\chi^2$/NDF:3355141.4/18

Out: 0.006+/-0.000 $\chi^2$/NDF:11543789.1/21

All: 0.009+/-0.000 $\chi^2$/NDF: 19788863.4/40




Right In: -0.044+/-0.094 $\chi^2$/NDF: 13.1/15

Left Out: 1.181+/-0.451 $\chi^2$/NDF:2.7/3

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.332+/-0.398 $\chi^2$/NDF:7.4/2

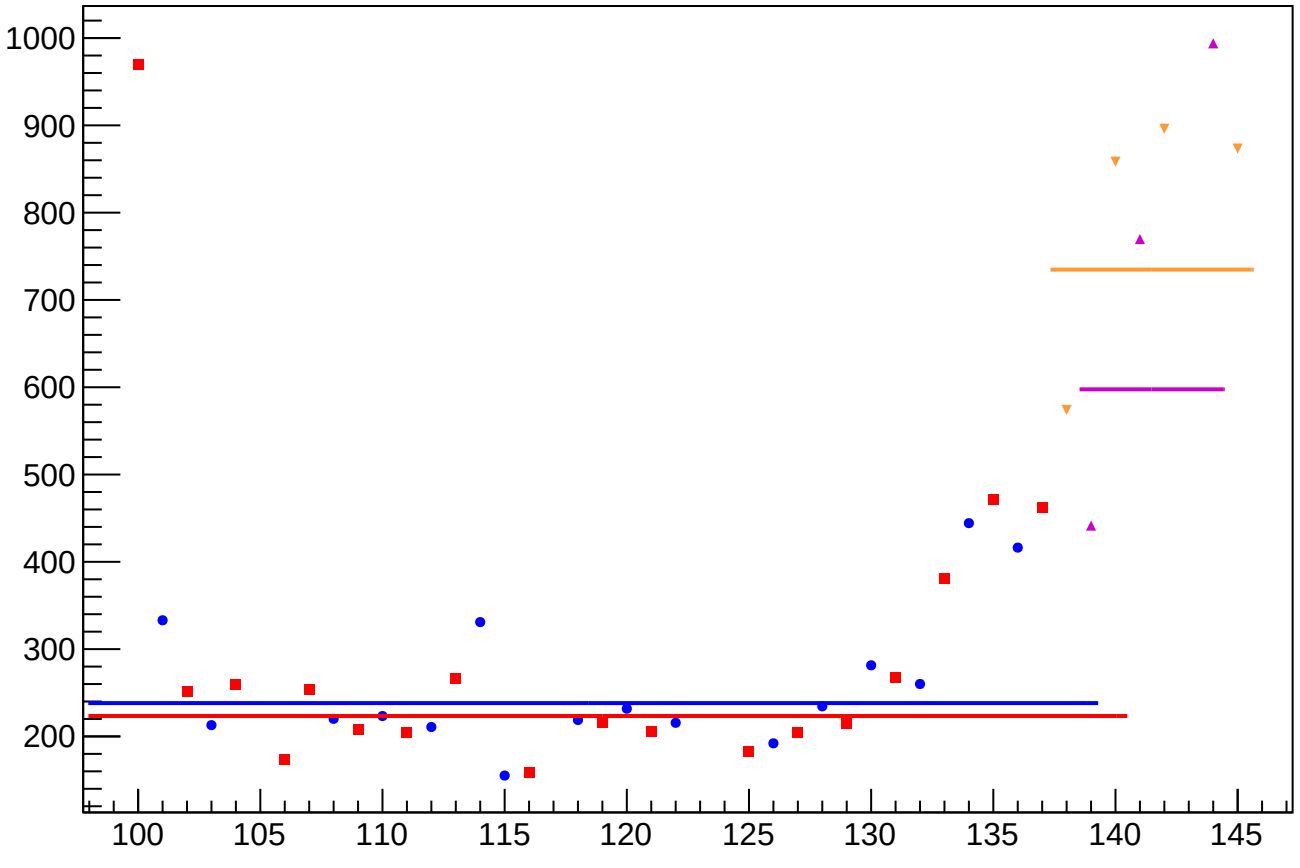
Left: 0.331+/-0.299 $\chi^2$/NDF: 16.4/6

Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.059+/-0.091 $\chi^2$/NDF:21.0/18

Out: 0.136+/-0.088 $\chi^2$/NDF:33.5/21

All: 0.042+/-0.063 $\chi^2$/NDF: 56.9/40




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807170.1/15

Left Out: 734.749+/-0.319 $\chi^2$/NDF:217854.8/3

Right Out: 223.390+/-0.064 $\chi^2$/NDF: 862366.3/17

Left In: 597.605+/-0.282 $\chi^2$/NDF:562513.4/2

Left: 657.738+/-0.211 $\chi^2$/NDF: 884291.4/6

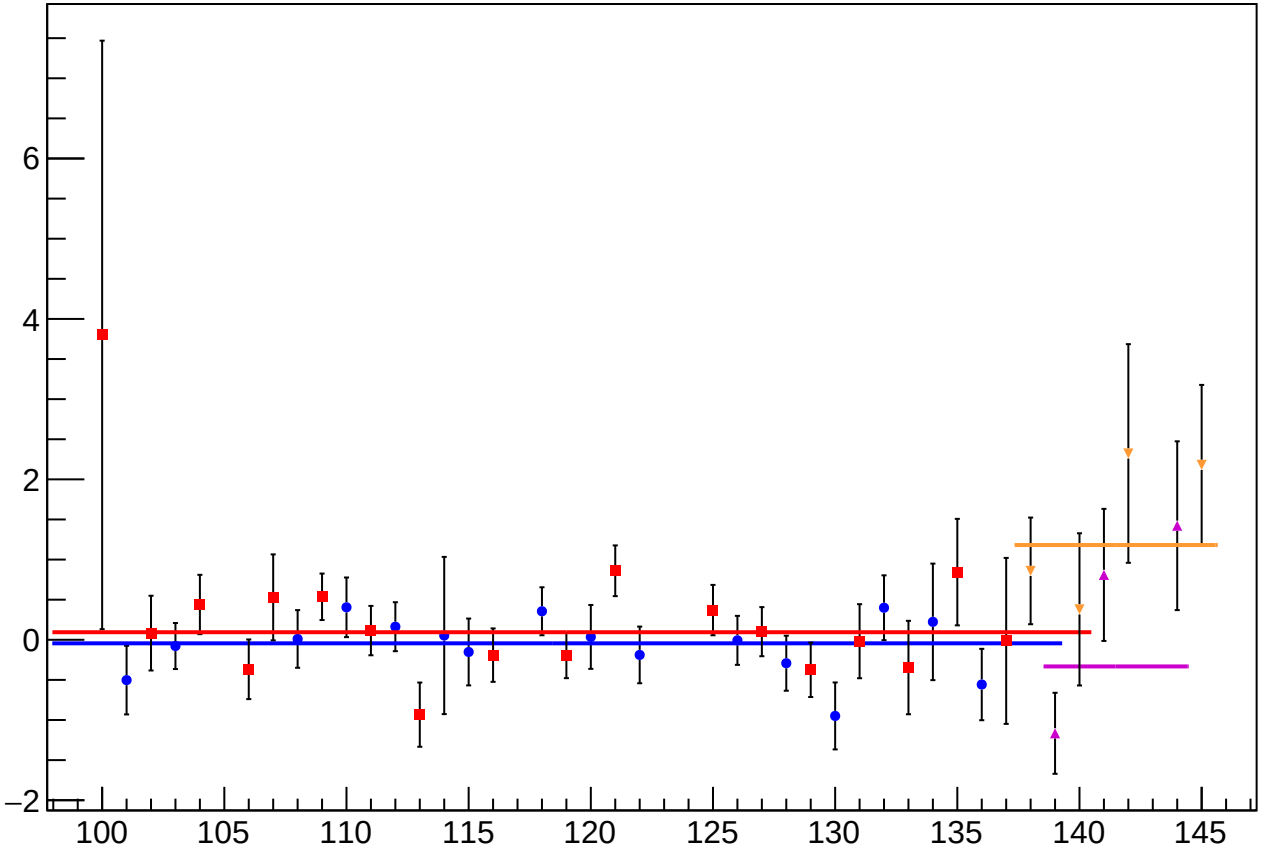
Right: 230.475+/-0.046 $\chi^2$/NDF: 1695367.2/33

In: 257.045+/-0.065 $\chi^2$/NDF:2912253.8/18

Out: 243.001+/-0.062 $\chi^2$/NDF:3554540.7/21

All: 249.788+/-0.045 $\chi^2$/NDF: 6491245.8/40

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: 1.181+/-0.451 $\chi^2$/NDF:2.7/3

Right Out: 0.094+/-0.090 $\chi^2$/NDF: 25.3/17

Left In: -0.332+/-0.398 $\chi^2$/NDF:7.4/2

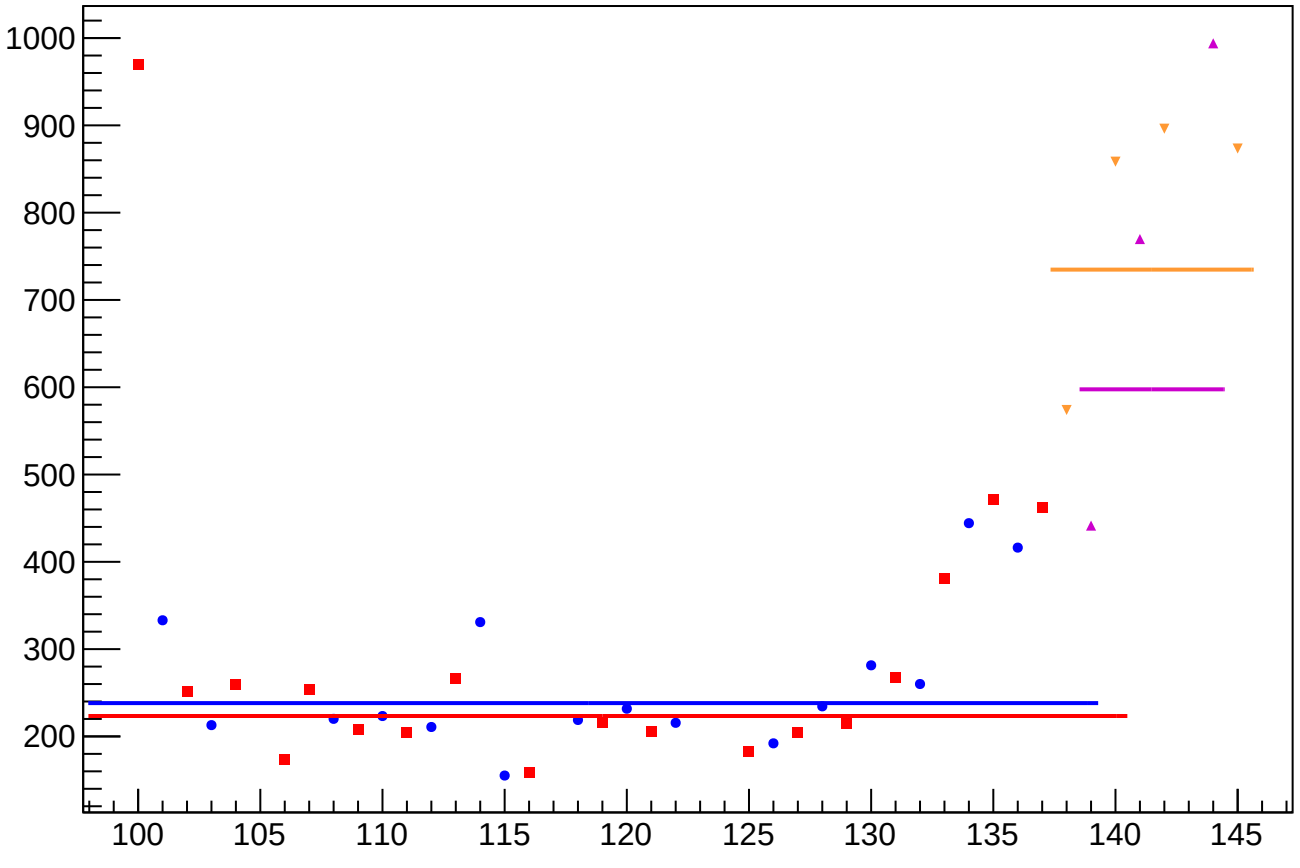
Left: 0.331+/-0.299 $\chi^2$/NDF: 16.4/6

Right: 0.028+/-0.065 $\chi^2$/NDF: 39.5/33

In: -0.059+/-0.091 $\chi^2$/NDF:21.0/18

Out: 0.136+/-0.088 $\chi^2$/NDF:33.5/21

All: 0.042+/-0.063 $\chi^2$/NDF: 56.9/40




Right In: 238.165+/-0.066 $\chi^2$/NDF: 807170.1/15

Left Out: 734.749+/-0.319 $\chi^2$/NDF:217854.8/3

Right Out: 223.390+/-0.064 $\chi^2$/NDF: 862366.3/17

Left In: 597.605+/-0.282 $\chi^2$/NDF:562513.4/2

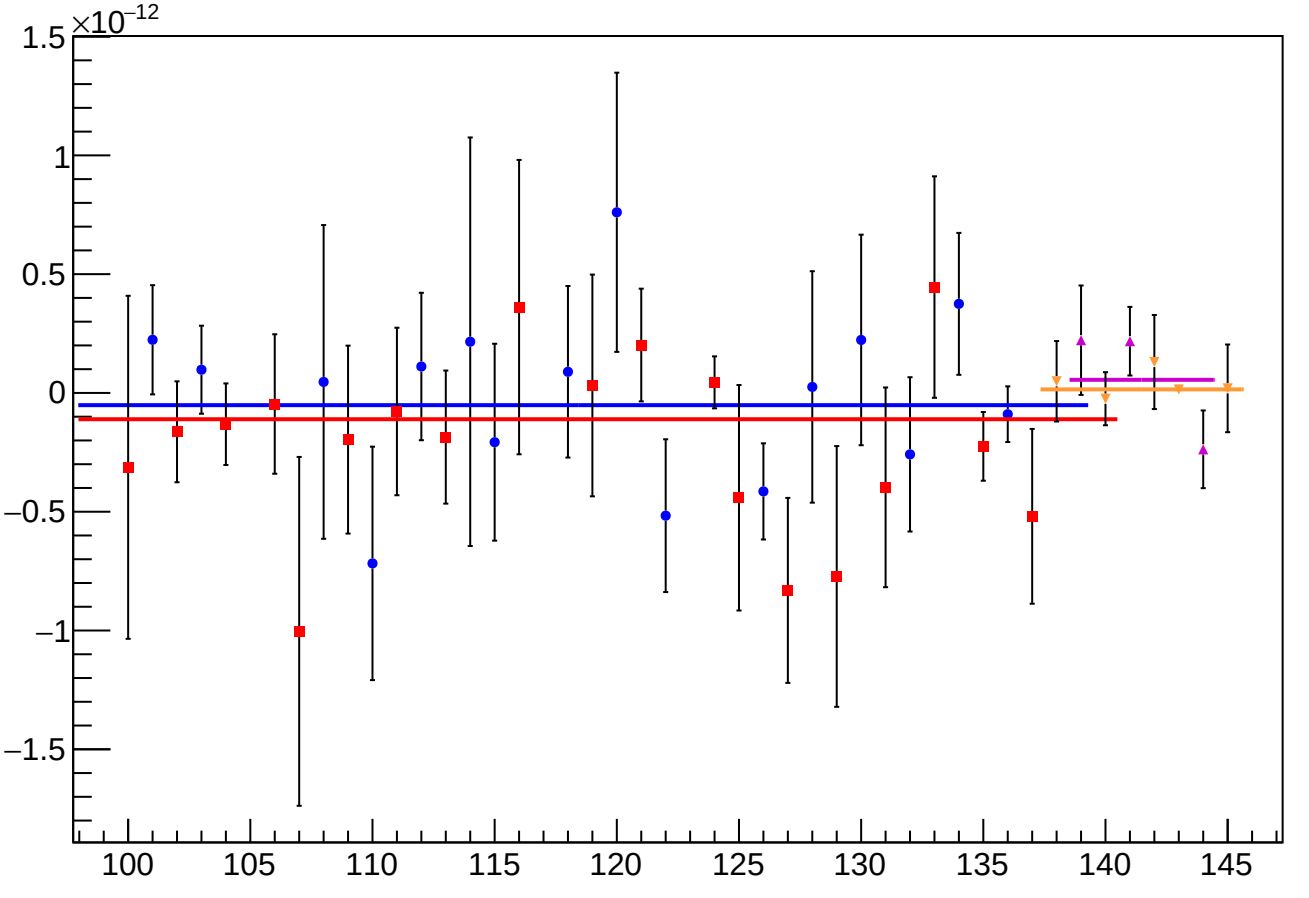
Left: 657.738+/-0.211 $\chi^2$/NDF: 884291.4/6

Right: 230.475+/-0.046 $\chi^2$/NDF: 1695367.2/33

In: 257.045+/-0.065 $\chi^2$/NDF:2912253.8/18

Out: 243.001+/-0.062 $\chi^2$/NDF:3554540.7/21

All: 249.788+/-0.045 $\chi^2$/NDF: 6491245.8/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.0/2

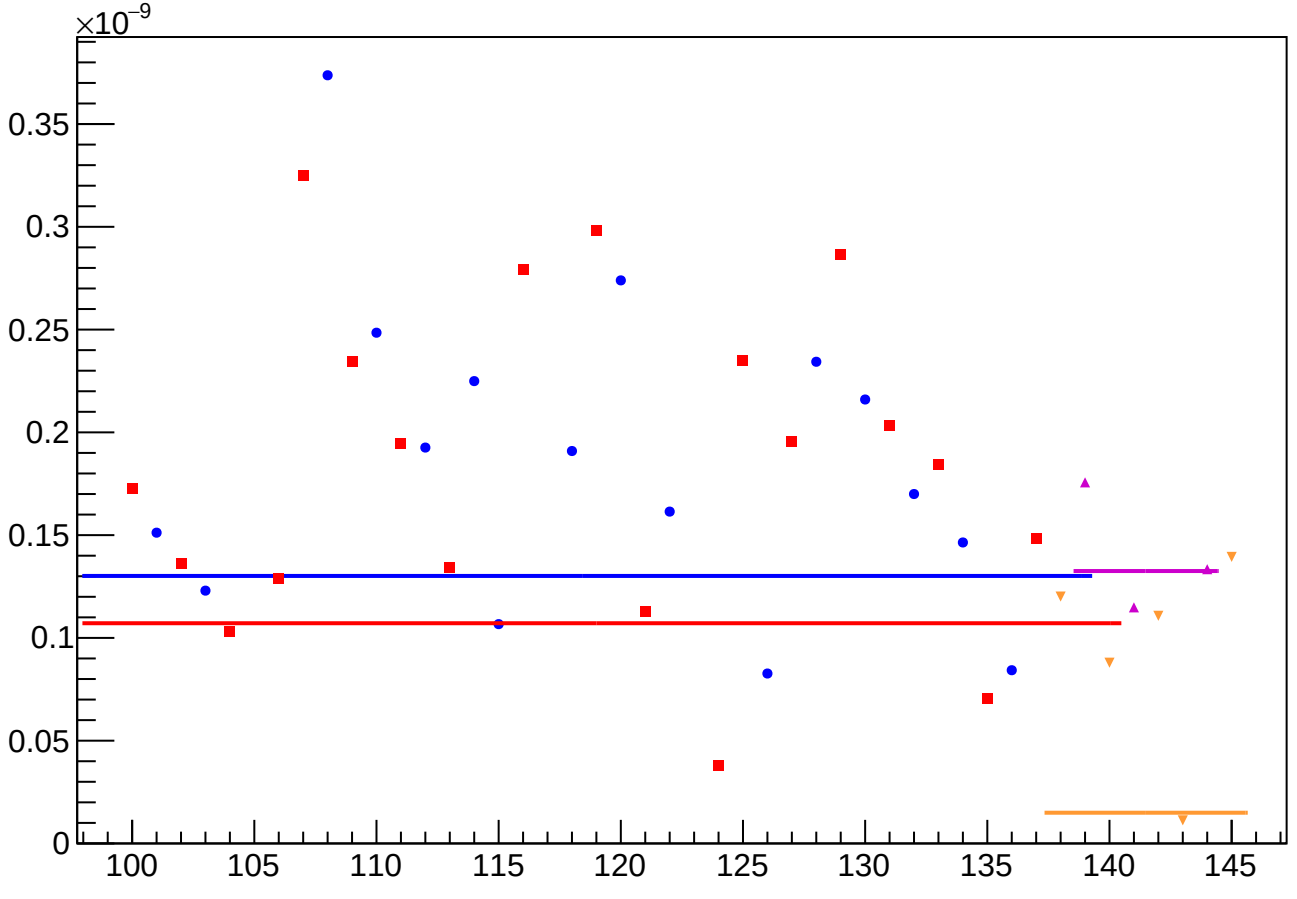
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:20.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 40.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1334266.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3118619.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2656168.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:100238.0/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 6033962.2/7

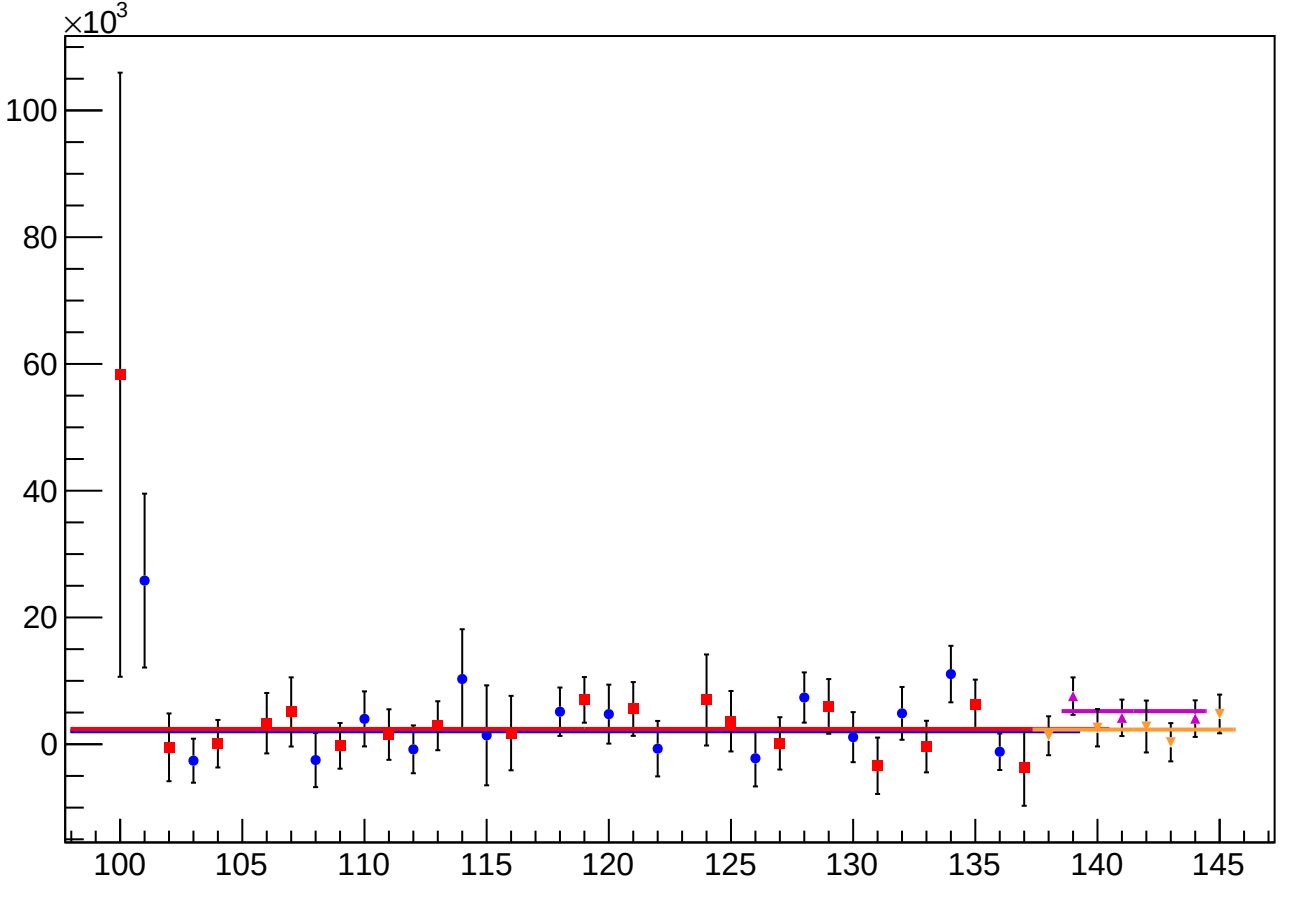
Right: 0.000+/-0.000 $\chi^2$/NDF: 4122173.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:1435307.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:10352950.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 19154769.3/42

# reg_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2049.493+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2319.997+/-1417.613 $\chi^2$/NDF:1.2/4

Right Out: 2411.858+/-1035.471 $\chi^2$/NDF: 10.8/18

Left In: 5228.301+/-1676.907 $\chi^2$/NDF:0.9/2

Left: 3532.157+/-1082.603 $\chi^2$/NDF: 3.9/7

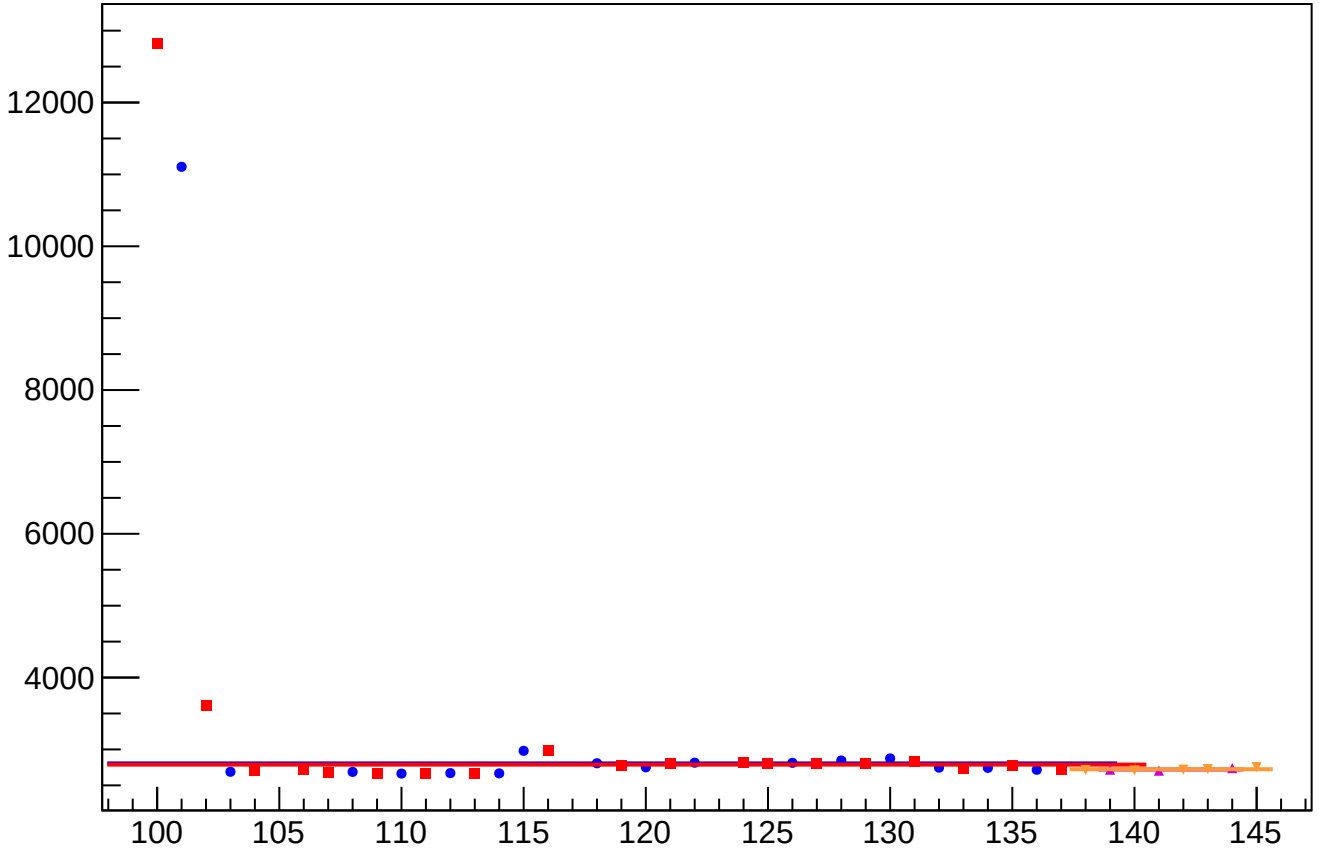
Right: 2236.684+/-744.229 $\chi^2$/NDF: 28.6/34

In: 2969.736+/-902.253 $\chi^2$/NDF:21.3/18

Out: 2379.899+/-836.164 $\chi^2$/NDF:12.0/23

All: 2652.426+/-613.292 $\chi^2$/NDF: 33.5/42

# reg_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746240.6/15

Left Out: 2724.495+/-1.002 $\chi^2$/NDF:269.4/4

Right Out: 2788.820+/-0.732 $\chi^2$/NDF: 146998.3/18

Left In: 2720.565+/-1.186 $\chi^2$/NDF:153.4/2

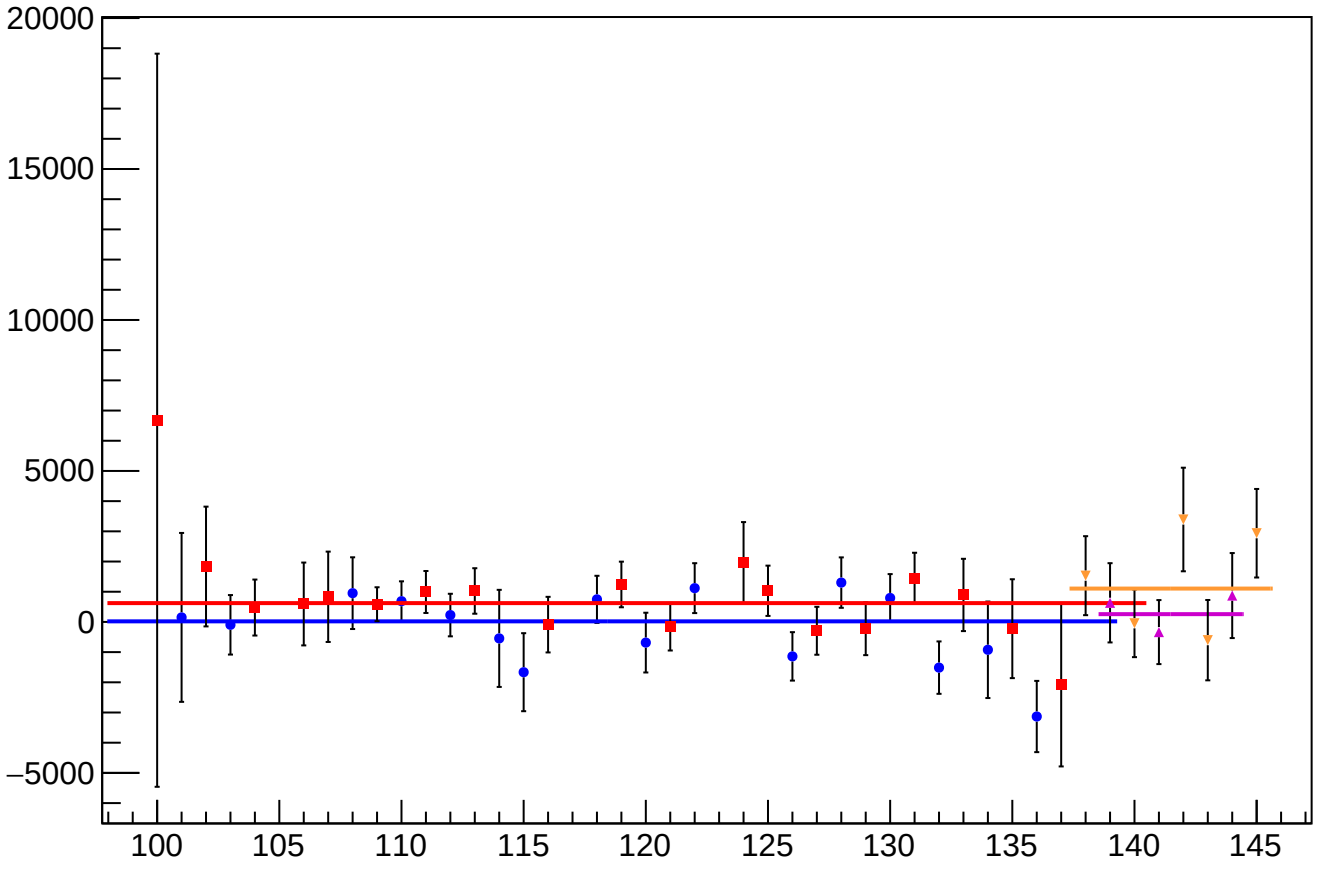
Left: 2722.857+/-0.766 $\chi^2$/NDF: 429.3/7

Right: 2796.857+/-0.526 $\chi^2$/NDF: 893488.2/34

In: 2780.873+/-0.638 $\chi^2$/NDF:750034.9/18

Out: 2766.441+/-0.591 $\chi^2$/NDF:149953.0/23

All: 2773.109+/-0.434 $\chi^2$/NDF: 900263.1/42




Right In: 18.981+/-233.483 $\chi^2$/NDF: 22.8/15

Left Out: 1104.589+/-603.063 $\chi^2$/NDF:6.1/4

Right Out: 623.107+/-215.948 $\chi^2$/NDF: 9.3/18

Left In: 257.434+/-711.570 $\chi^2$/NDF:0.6/2

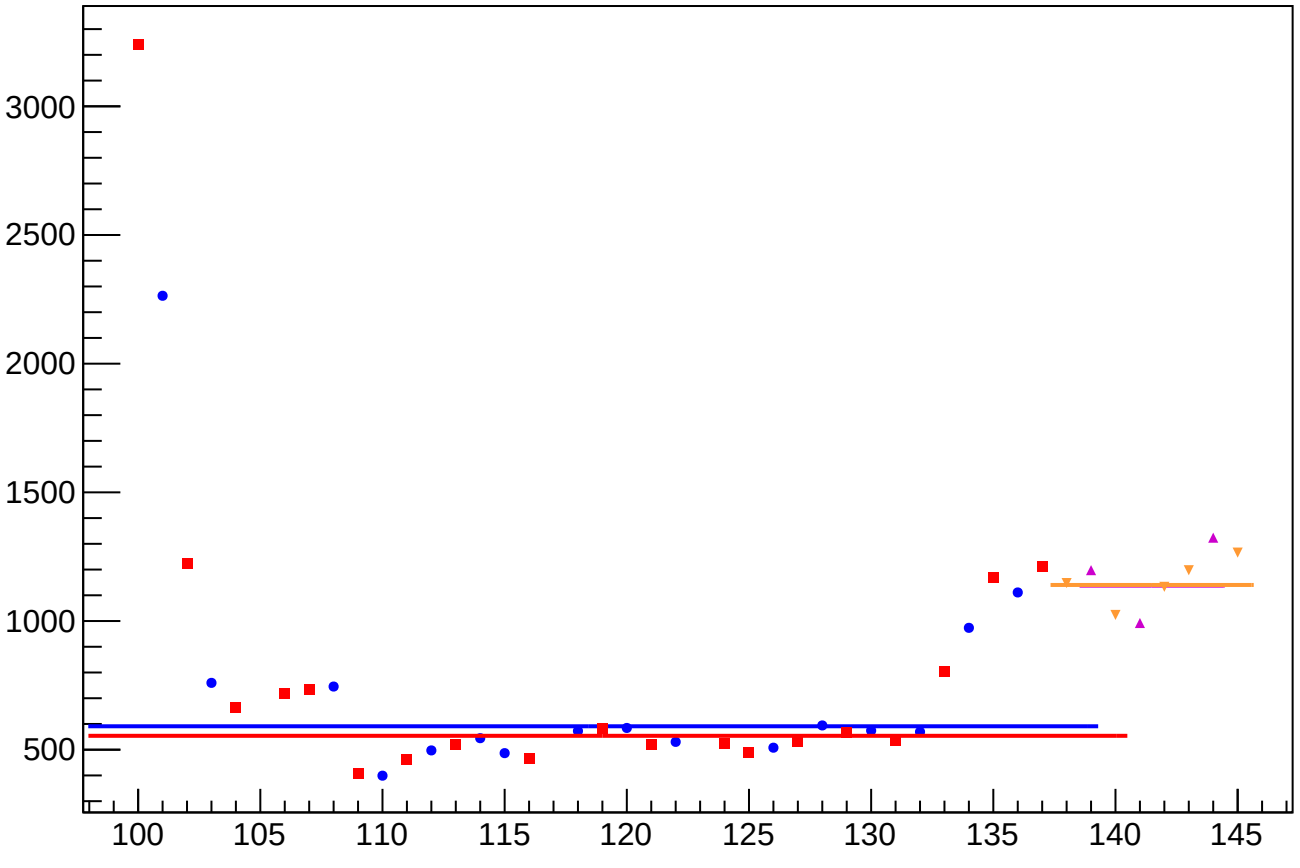
Left: 750.461+/-460.062 $\chi^2$/NDF: 7.6/7

Right: 344.579+/-158.535 $\chi^2$/NDF: 35.6/34

In: 42.159+/-221.846 $\chi^2$/NDF:23.4/18

Out: 677.829+/-203.307 $\chi^2$/NDF:16.0/23

All: 387.660+/-149.886 $\chi^2$/NDF: 43.9/42




Right In: 591.041+/-0.165 $\chi^2$/NDF: 1567663.5/15

Left Out: 1140.123+/-0.426 $\chi^2$/NDF:40084.5/4

Right Out: 553.982+/-0.153 $\chi^2$/NDF: 1116915.2/18

Left In: 1137.421+/-0.503 $\chi^2$/NDF:76781.5/2

Left: 1138.994+/-0.325 $\chi^2$/NDF: 116882.8/7

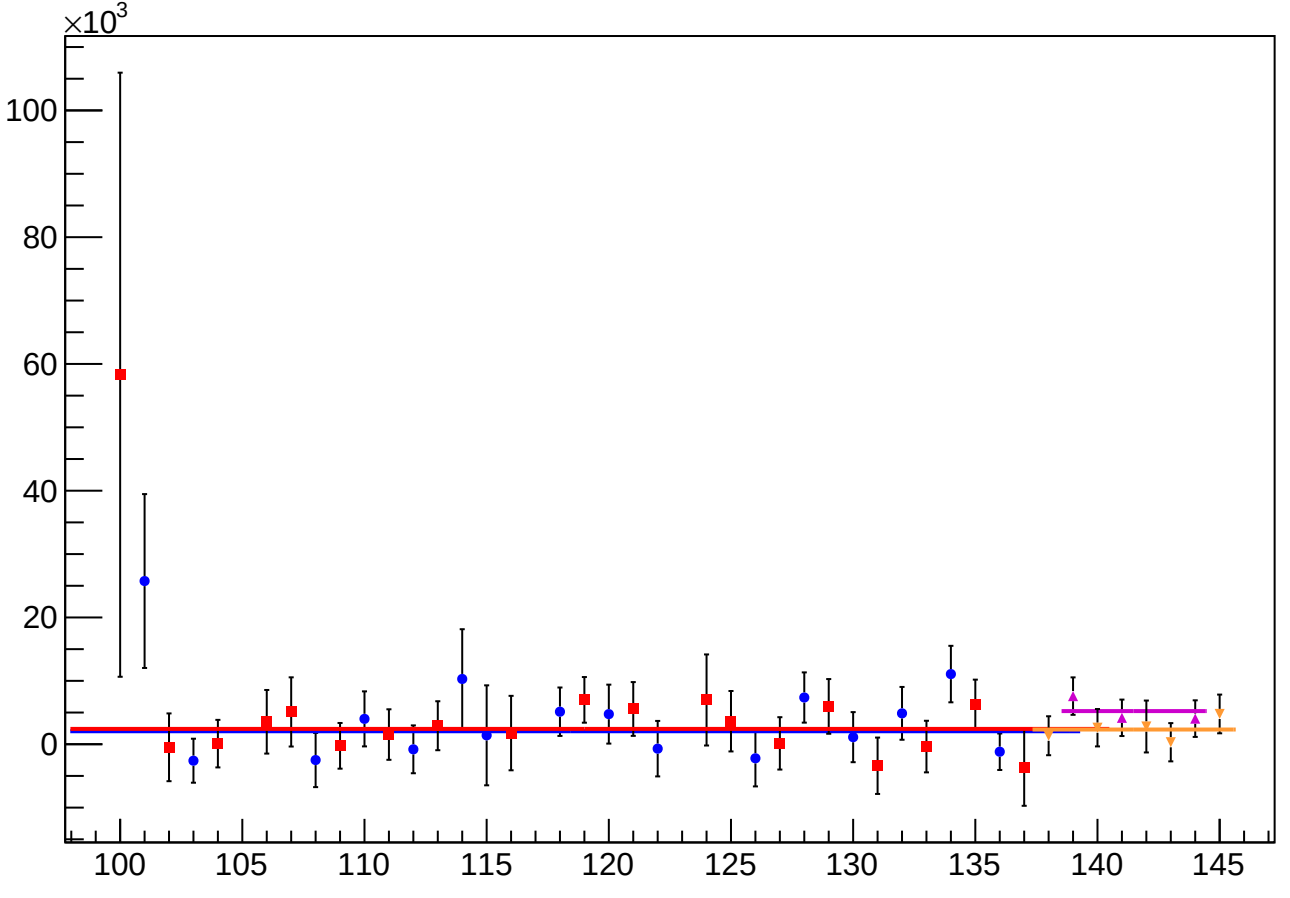
Right: 571.068+/-0.112 $\chi^2$/NDF: 2711735.0/34

In: 644.149+/-0.157 $\chi^2$/NDF:2709019.0/18

Out: 620.598+/-0.144 $\chi^2$/NDF:2831612.1/23

All: 631.349+/-0.106 $\chi^2$/NDF: 5552882.1/42

# cor_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2048.688+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2320.312+/-1417.613 $\chi^2$/NDF:1.2/4

Right Out: 2417.909+/-1037.856 $\chi^2$/NDF: 10.8/18

Left In: 5228.689+/-1676.907 $\chi^2$/NDF:0.9/2

Left: 3532.503+/-1082.603 $\chi^2$/NDF: 3.9/7

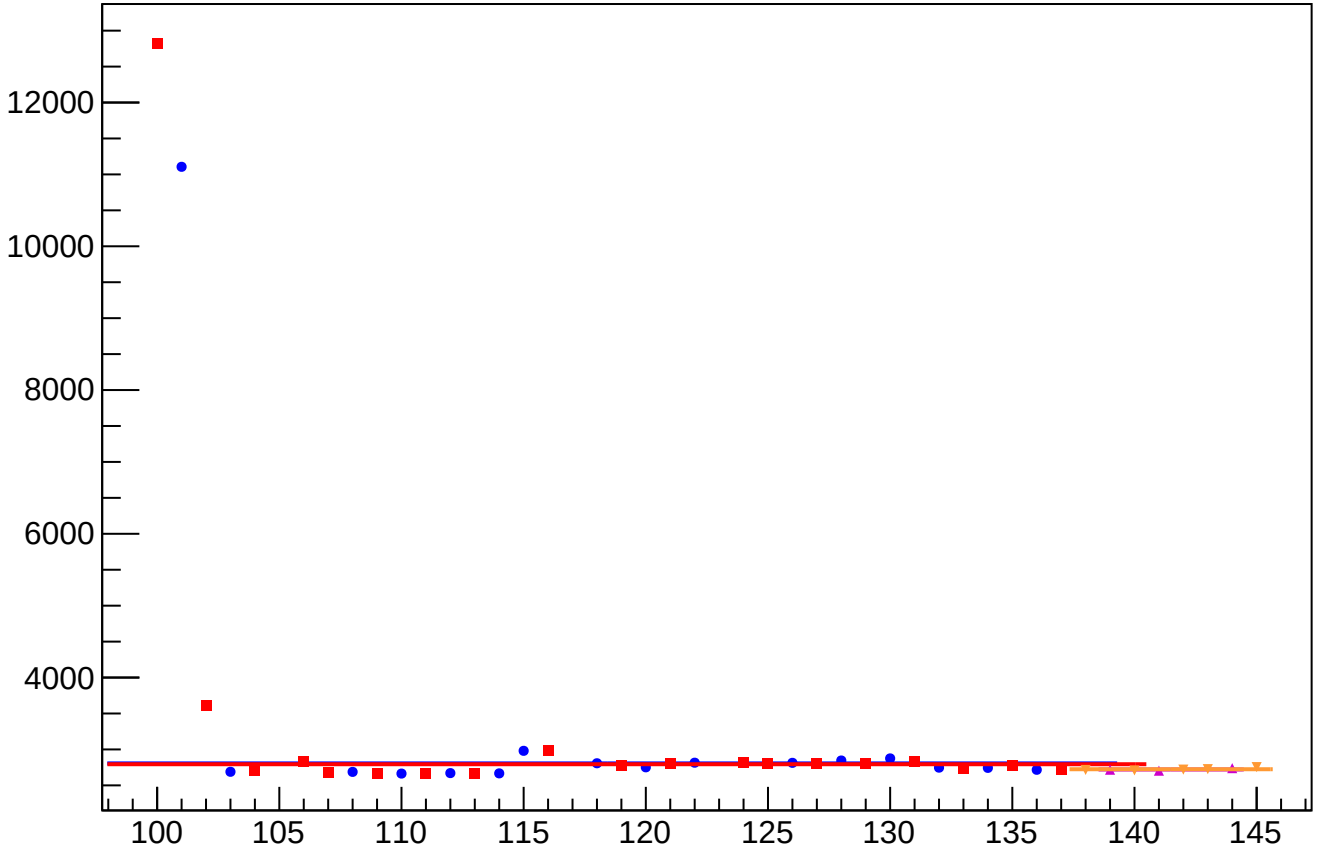
Right: 2238.996+/-745.113 $\chi^2$/NDF: 28.6/34

In: 2969.277+/-902.253 $\chi^2$/NDF:21.3/18

Out: 2383.852+/-837.418 $\chi^2$/NDF:12.0/23

All: 2654.777+/-613.786 $\chi^2$/NDF: 33.5/42

# cor_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746239.8/15

Left Out: 2724.495+/-1.002 $\chi^2$/NDF:269.4/4

Right Out: 2794.157+/-0.734 $\chi^2$/NDF: 146744.3/18

Left In: 2720.565+/-1.186 $\chi^2$/NDF:153.4/2

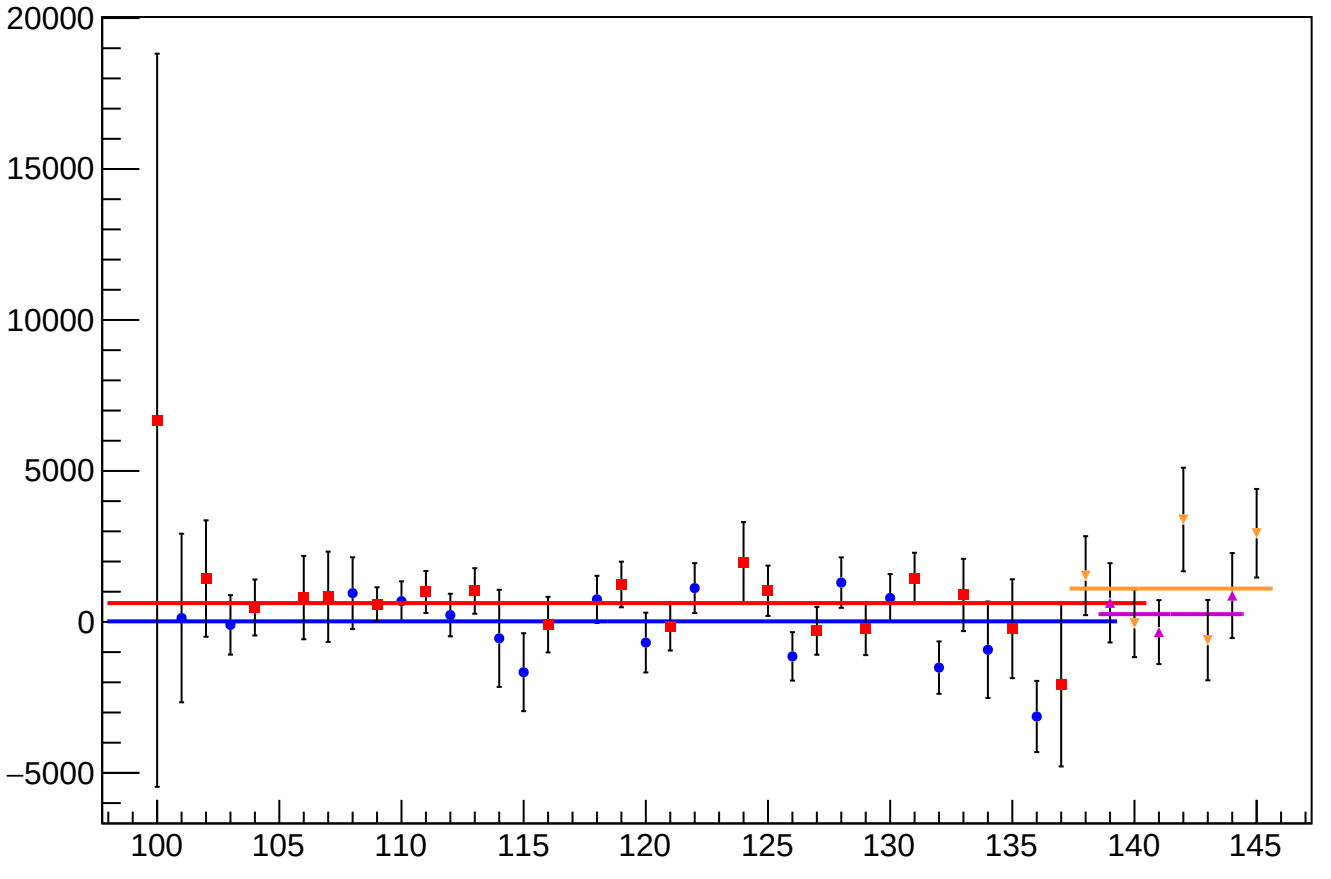
Left: 2722.857+/-0.766 $\chi^2$/NDF: 429.3/7

Right: 2799.627+/-0.527 $\chi^2$/NDF: 893098.7/34

In: 2780.873+/-0.638 $\chi^2$/NDF:750034.0/18

Out: 2769.848+/-0.592 $\chi^2$/NDF:150158.0/23

All: 2774.950+/-0.434 $\chi^2$/NDF: 900352.3/42




Right In: 18.940+/-233.471 $\chi^2$/NDF: 22.8/15

Left Out: 1104.719+/-603.059 $\chi^2$/NDF:6.1/4

Right Out: 624.217+/-215.902 $\chi^2$/NDF: 9.1/18

Left In: 257.477+/-711.569 $\chi^2$/NDF:0.6/2

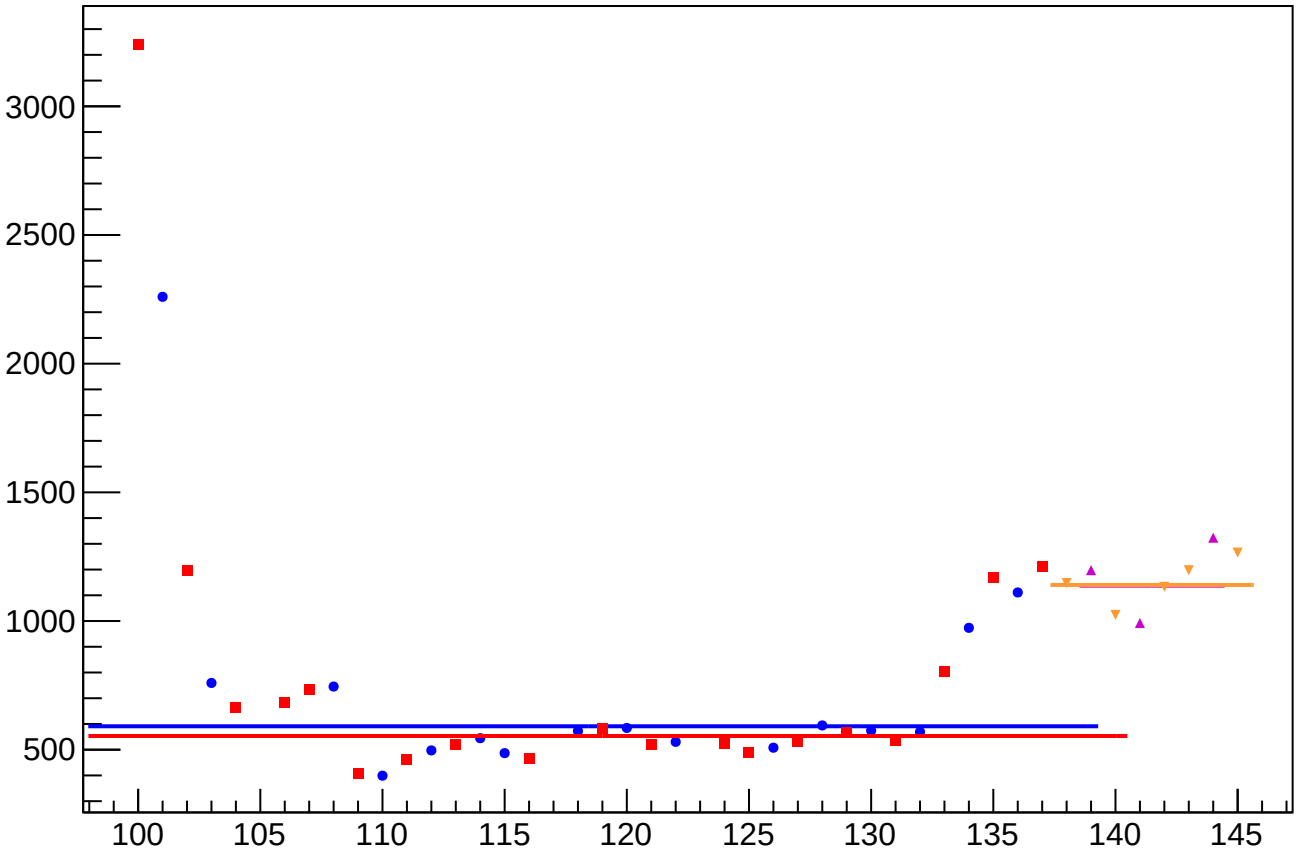
Left: 750.557+/-460.060 $\chi^2$/NDF: 7.6/7

Right: 345.208+/-158.513 $\chi^2$/NDF: 35.5/34

In: 42.124+/-221.836 $\chi^2$/NDF:23.4/18

Out: 678.807+/-203.268 $\chi^2$/NDF:15.8/23

All: 388.222+/-149.867 $\chi^2$/NDF: 43.7/42




Right In: 591.039+/-0.165 $\chi^2$/NDF: 1566635.0/15

Left Out: 1140.114+/-0.426 $\chi^2$/NDF:40077.6/4

Right Out: 553.233+/-0.153 $\chi^2$/NDF: 1101651.0/18

Left In: 1137.416+/-0.503 $\chi^2$/NDF:76798.1/2

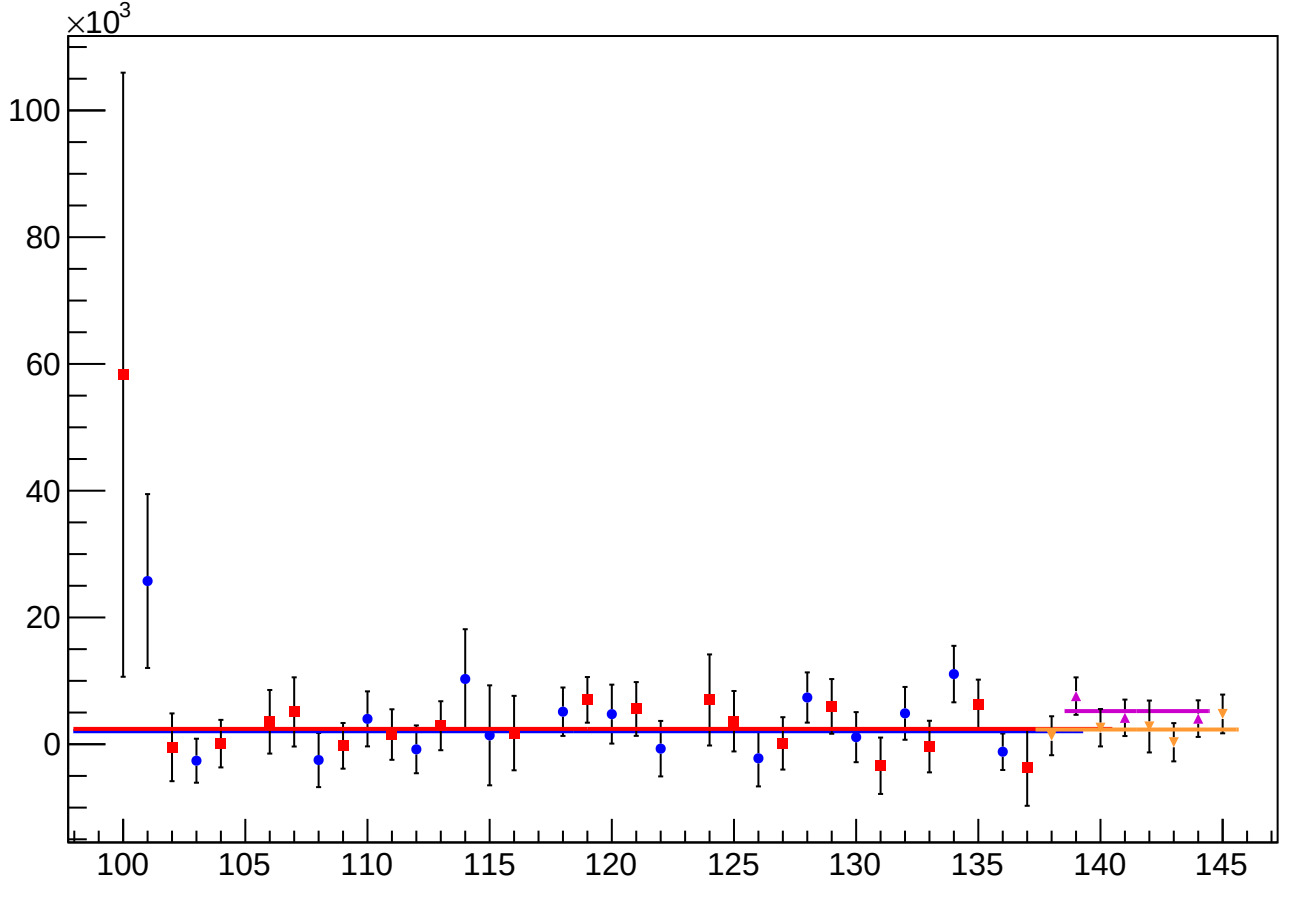
Left: 1138.986+/-0.325 $\chi^2$/NDF: 116892.4/7

Right: 570.660+/-0.112 $\chi^2$/NDF: 2696555.4/34

In: 644.143+/-0.157 $\chi^2$/NDF:2708005.5/18

Out: 619.908+/-0.144 $\chi^2$/NDF:2820668.7/23

All: 630.969+/-0.106 $\chi^2$/NDF: 5541648.8/42




Right In: 2048.688+/-1070.395 $\chi^2$/NDF: 17.8/15

Left Out: 2320.312+/-1417.613 $\chi^2$/NDF:1.2/4

Right Out: 2417.909+/-1037.856 $\chi^2$/NDF: 10.8/18

Left In: 5228.689+/-1676.907 $\chi^2$/NDF:0.9/2

Left: 3532.503+/-1082.603 $\chi^2$/NDF: 3.9/7

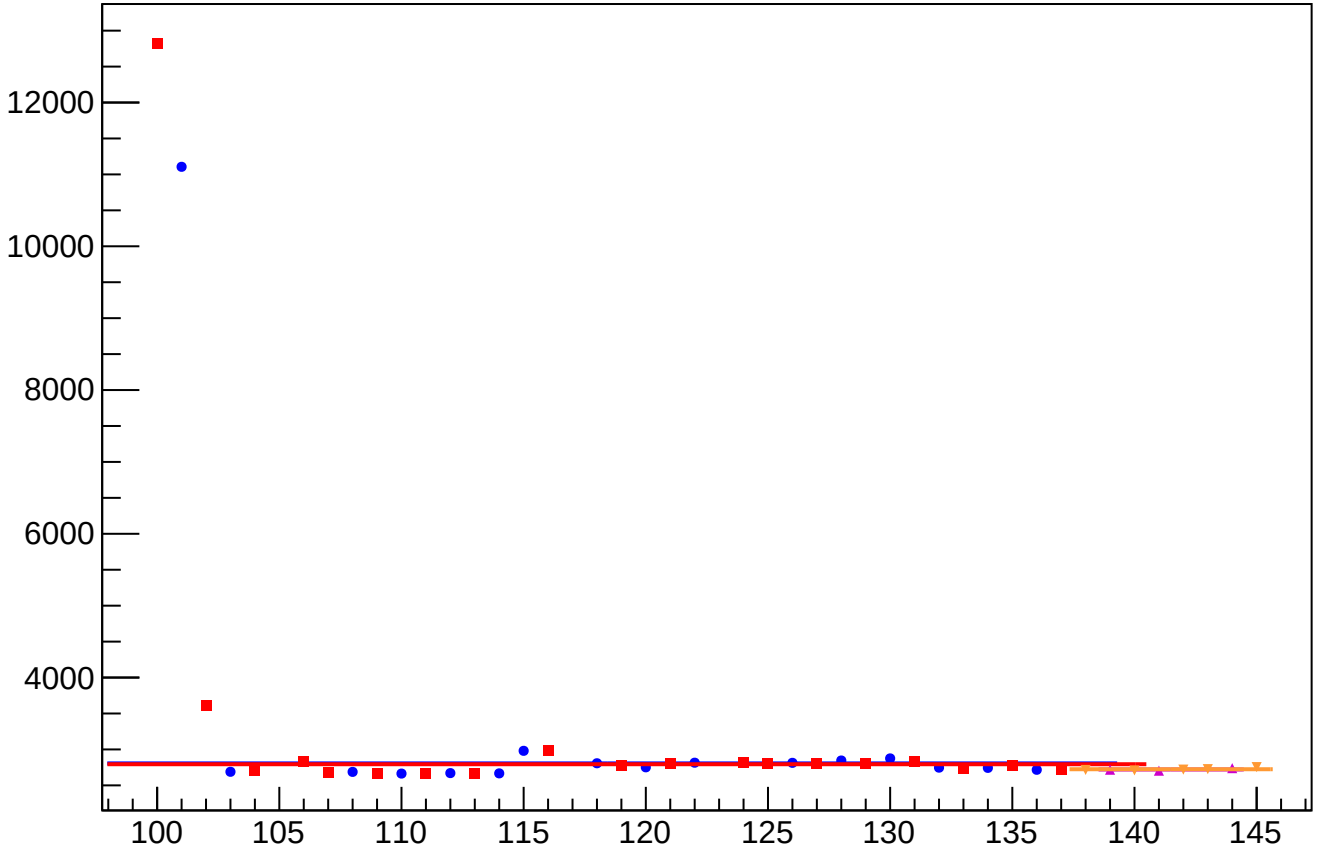
Right: 2238.996+/-745.113 $\chi^2$/NDF: 28.6/34

In: 2969.277+/-902.253 $\chi^2$/NDF:21.3/18

Out: 2383.852+/-837.418 $\chi^2$/NDF:12.0/23

All: 2654.777+/-613.786 $\chi^2$/NDF: 33.5/42

# eigen_cor_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2805.446+/-0.757 $\chi^2$/NDF: 746239.8/15

Left Out: 2724.495+/-1.002 $\chi^2$/NDF:269.4/4

Right Out: 2794.157+/-0.734 $\chi^2$/NDF: 146744.3/18

Left In: 2720.565+/-1.186 $\chi^2$/NDF:153.4/2

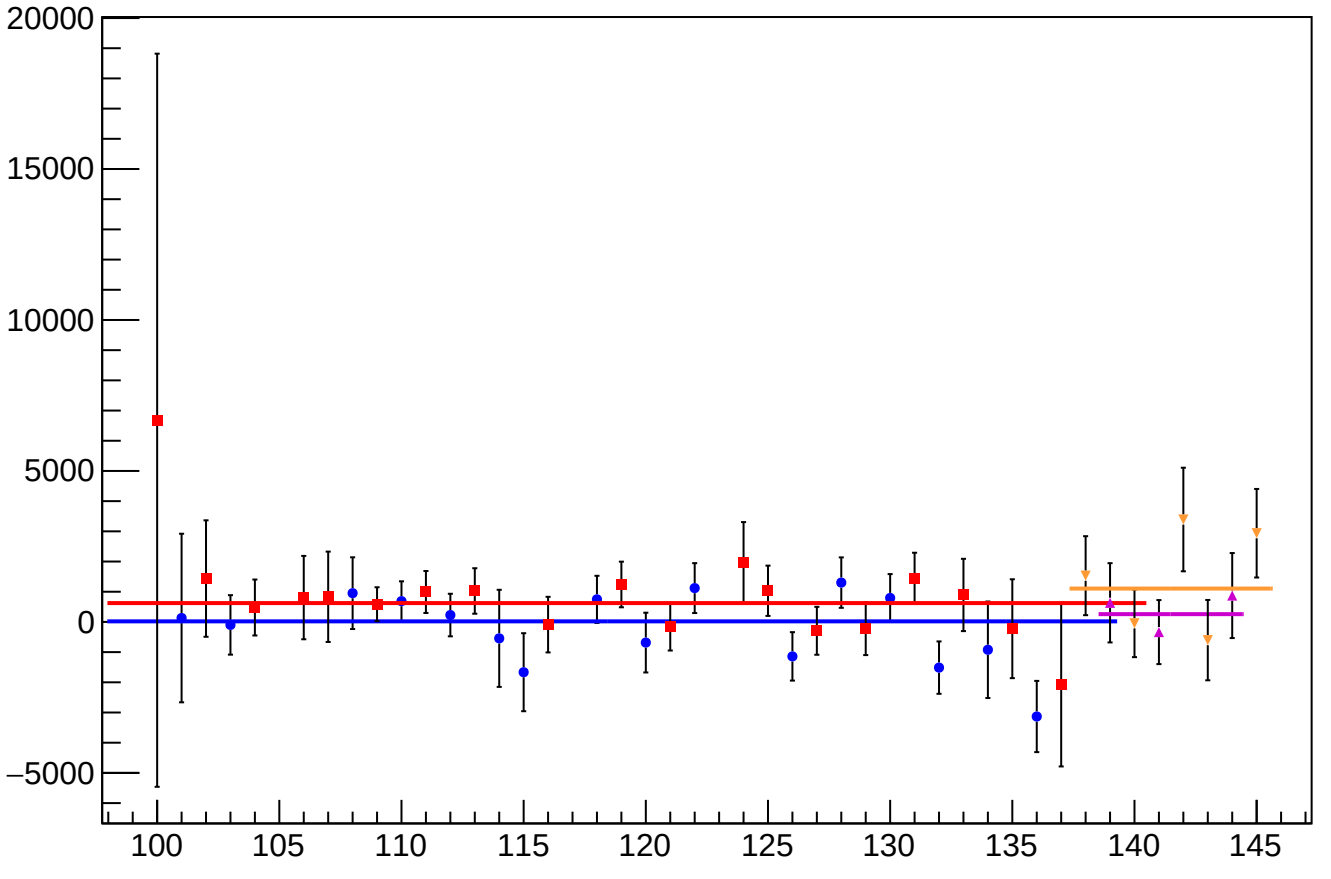
Left: 2722.857+/-0.766 $\chi^2$/NDF: 429.3/7

Right: 2799.627+/-0.527 $\chi^2$/NDF: 893098.7/34

In: 2780.873+/-0.638 $\chi^2$/NDF:750034.0/18

Out: 2769.848+/-0.592 $\chi^2$/NDF:150158.0/23

All: 2774.950+/-0.434 $\chi^2$/NDF: 900352.3/42




Right In: 18.940+/-233.471 $\chi^2$/NDF: 22.8/15

Left Out: 1104.719+/-603.059 $\chi^2$/NDF:6.1/4

Right Out: 624.217+/-215.902 $\chi^2$/NDF: 9.1/18

Left In: 257.477+/-711.569 $\chi^2$/NDF:0.6/2

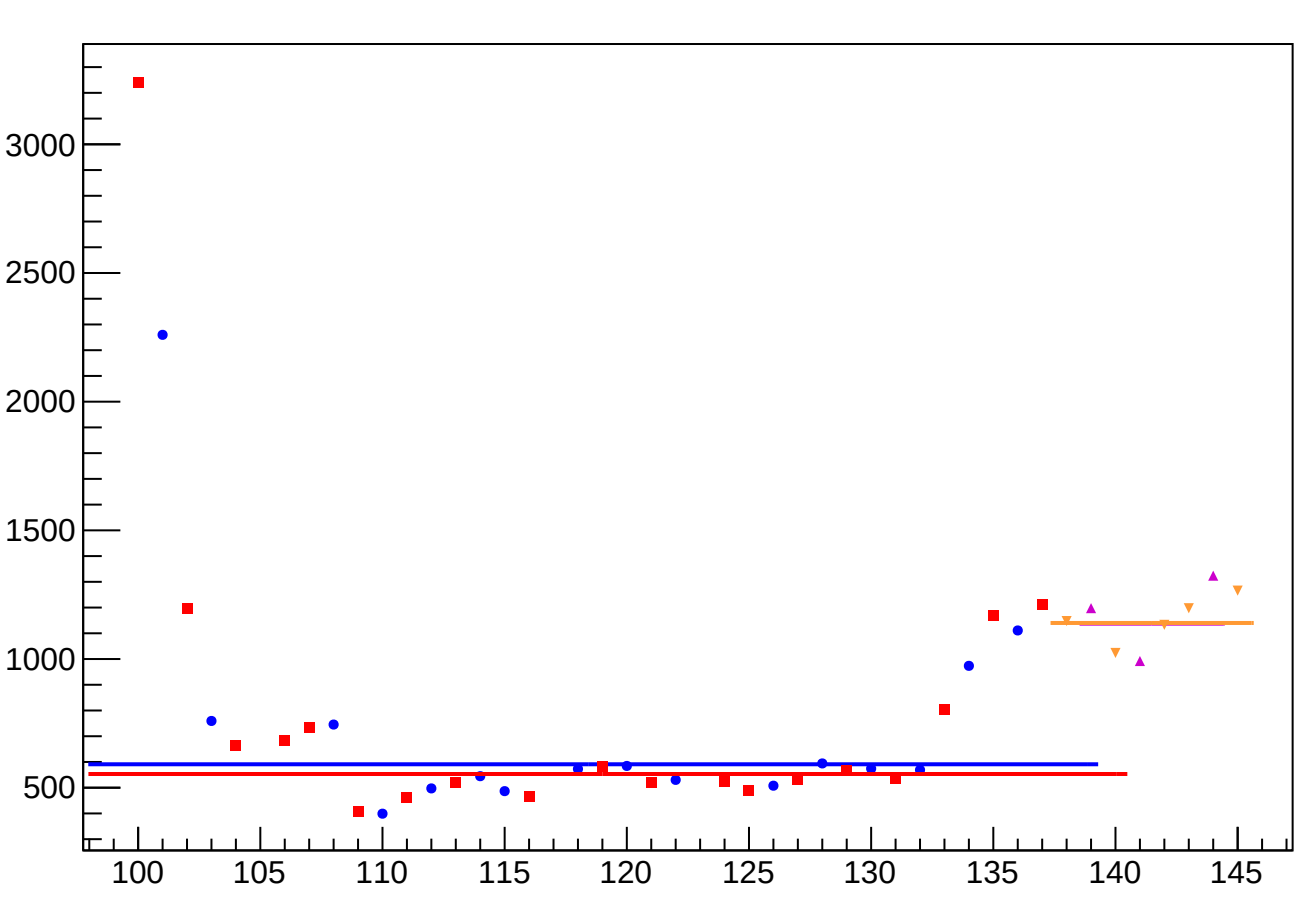
Left: 750.557+/-460.060 $\chi^2$/NDF: 7.6/7

Right: 345.208+/-158.513 $\chi^2$/NDF: 35.5/34

In: 42.124+/-221.836 $\chi^2$/NDF:23.4/18

Out: 678.807+/-203.268 $\chi^2$/NDF:15.8/23

All: 388.222+/-149.867 $\chi^2$/NDF: 43.7/42




Right In: 591.039+/-0.165 $\chi^2$/NDF: 1566635.0/15

Left Out: 1140.114+/-0.426 $\chi^2$/NDF:40077.6/4

Right Out: 553.233+/-0.153 $\chi^2$/NDF: 1101651.0/18

Left In: 1137.416+/-0.503 $\chi^2$/NDF:76798.1/2

Left: 1138.986+/-0.325 $\chi^2$/NDF: 116892.4/7

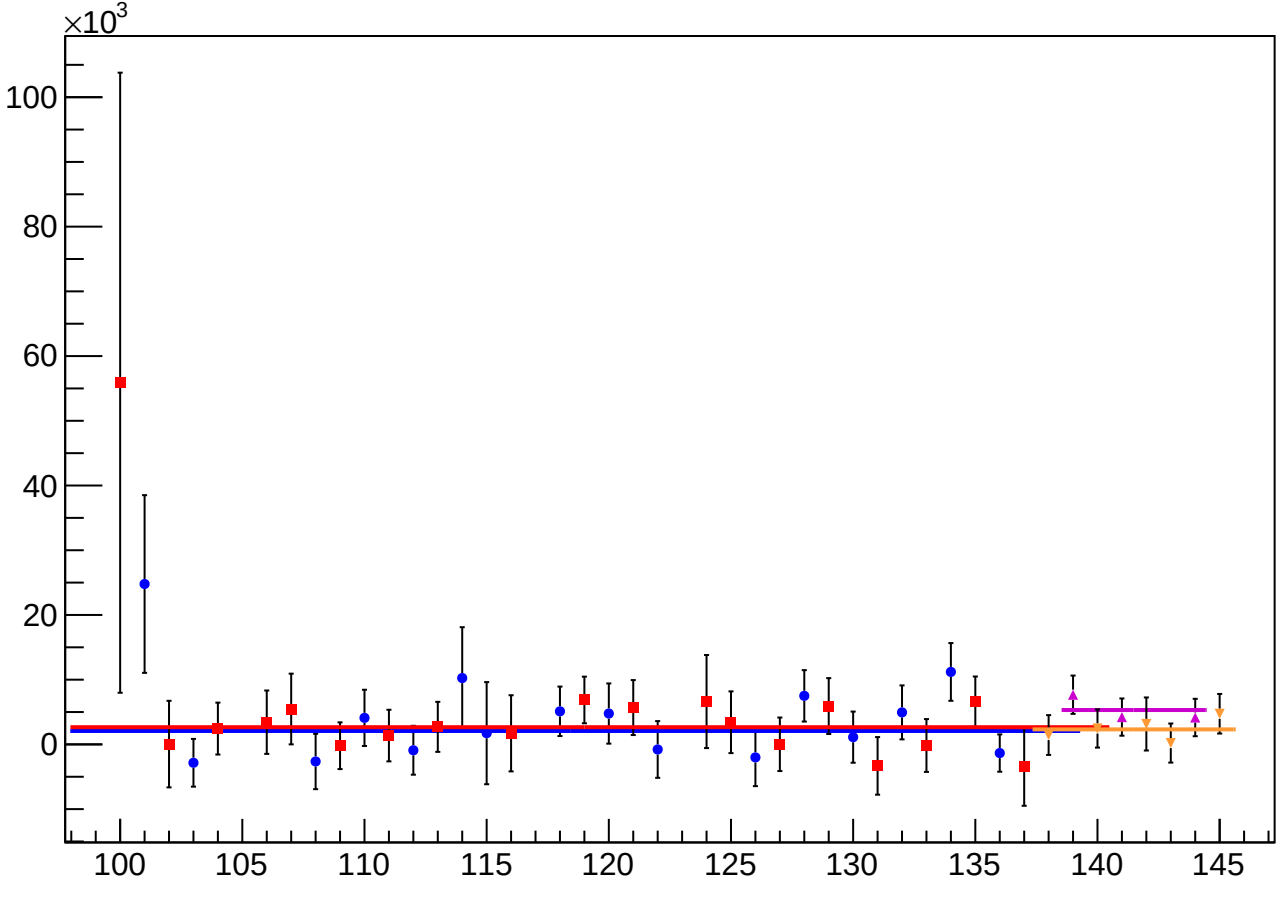
Right: 570.660+/-0.112 $\chi^2$/NDF: 2696555.4/34

In: 644.143+/-0.157 $\chi^2$/NDF:2708005.5/18

Out: 619.908+/-0.144 $\chi^2$/NDF:2820668.7/23

All: 630.969+/-0.106 $\chi^2$/NDF: 5541648.8/42

# dit_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2074.766+/-1077.182 $\chi^2$/NDF: 17.9/15

Left Out: 2319.627+/-1419.072 $\chi^2$/NDF:1.2/4

Right Out: 2657.301+/-1049.868 $\chi^2$/NDF: 9.9/18

Left In: 5310.208+/-1678.658 $\chi^2$/NDF:0.9/2

Left: 3566.058+/-1083.724 $\chi^2$/NDF: 4.0/7

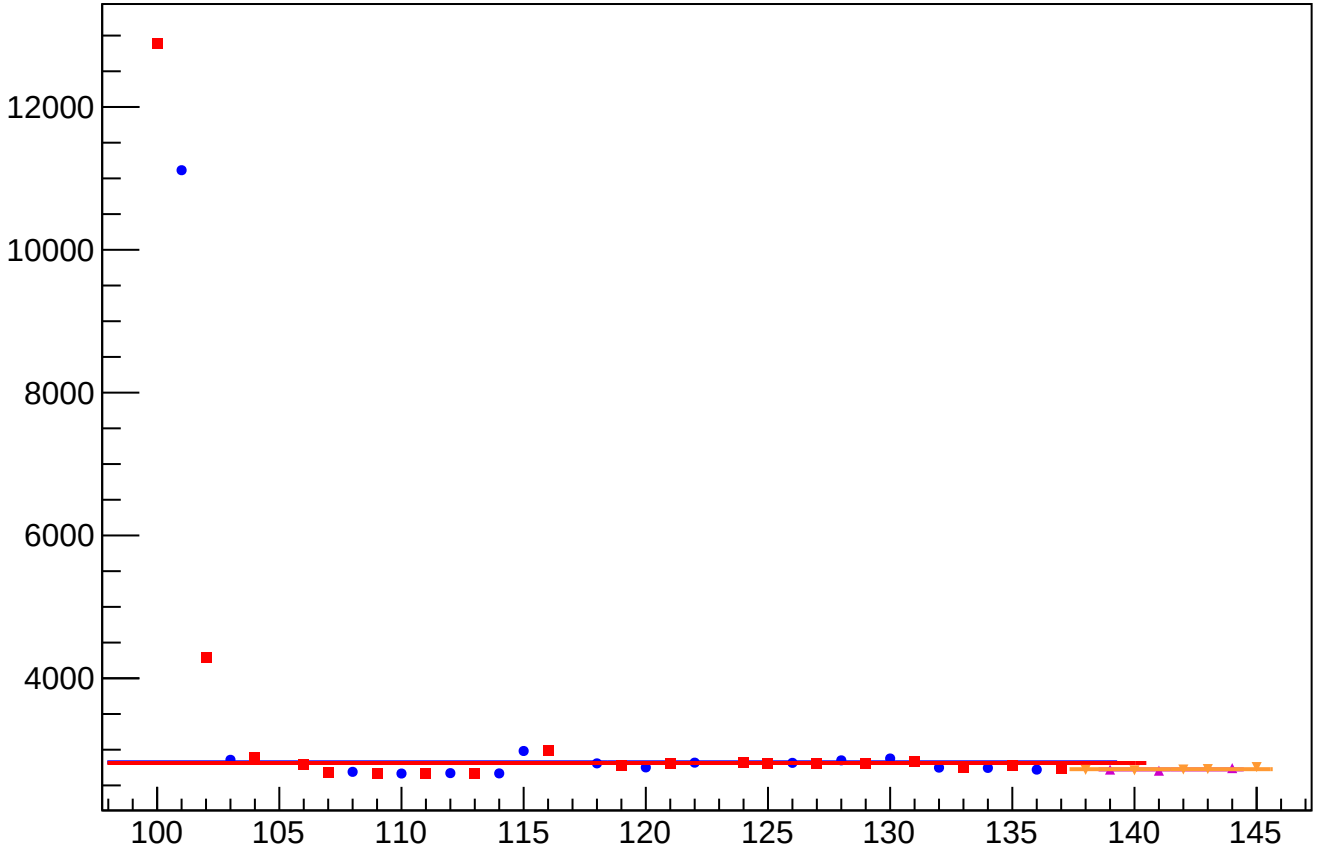
Right: 2373.513+/-751.840 $\chi^2$/NDF: 28.0/34

In: 3018.444+/-906.582 $\chi^2$/NDF:21.5/18

Out: 2537.855+/-843.998 $\chi^2$/NDF:11.2/23

All: 2760.990+/-617.738 $\chi^2$/NDF: 32.8/42

# dit_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2823.448+/-0.762 $\chi^2$/NDF: 743916.1/15

Left Out: 2727.292+/-1.003 $\chi^2$/NDF:265.6/4

Right Out: 2813.821+/-0.742 $\chi^2$/NDF: 200511.9/18

Left In: 2723.369+/-1.187 $\chi^2$/NDF:159.6/2

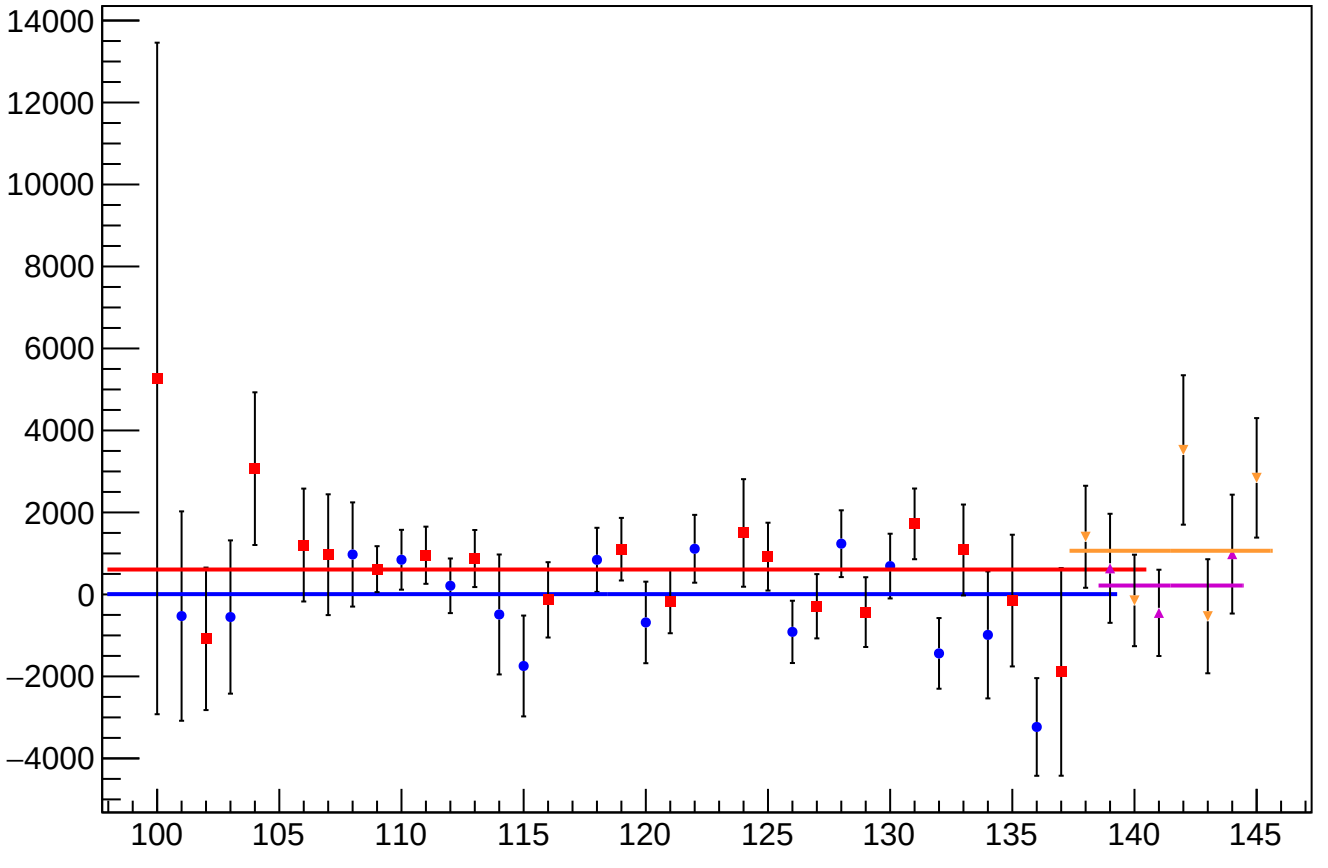
Left: 2725.657+/-0.766 $\chi^2$/NDF: 431.6/7

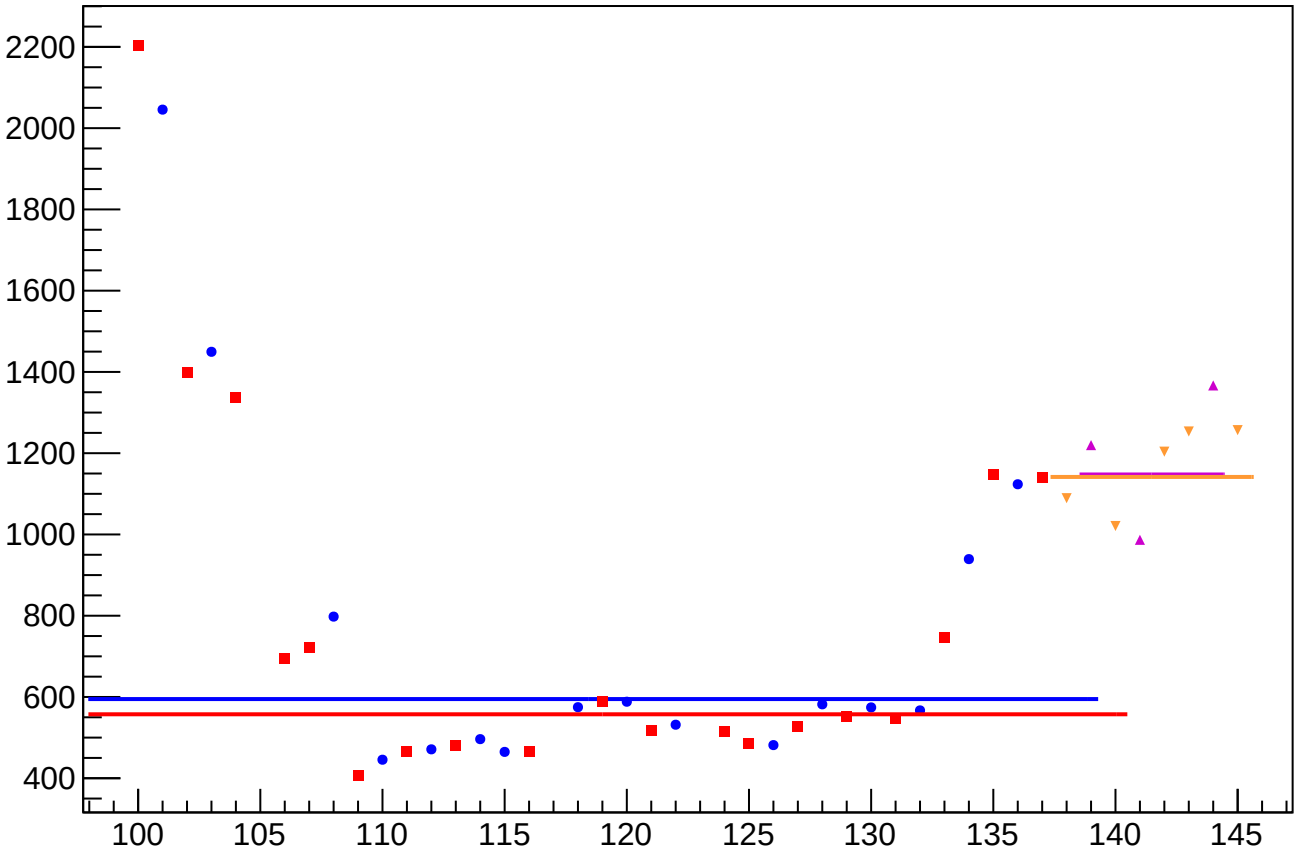
Right: 2818.511+/-0.532 $\chi^2$/NDF: 944509.9/34

In: 2794.258+/-0.641 $\chi^2$/NDF:749111.0/18

Out: 2783.213+/-0.597 $\chi^2$/NDF:205583.3/23

All: 2788.341+/-0.437 $\chi^2$/NDF: 954853.4/42


asym_atr1_dit_correction_mean vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
100
105
110
115
120
125
130
135
140
145
Right In: 7.048+/-237.455 χ²/NDF: 22.8/15
Left Out: 1064.801+/-604.450 χ²/NDF:5.9/4
Right Out: 607.647+/-217.093 χ²/NDF: 12.2/18
Left In: 216.961+/-717.267 χ²/NDF:0.8/2
Left: 712.726+/-462.213 χ²/NDF: 7.5/7
Right: 334.198+/-160.224 χ²/NDF: 38.5/34
In: 27.782+/-225.423 χ²/NDF:23.7/18
Out: 659.880+/-204.315 χ²/NDF:18.5/23
All: 374.804+/-151.386 χ²/NDF: 46.5/42




Right In: 594.858+/-0.168 $\chi^2$/NDF: 1852655.3/15

Left Out: 1141.558+/-0.427 $\chi^2$/NDF:54711.8/4

Right Out: 557.397+/-0.154 $\chi^2$/NDF: 1631309.6/18

Left In: 1147.597+/-0.507 $\chi^2$/NDF:98258.6/2

Left: 1144.066+/-0.327 $\chi^2$/NDF: 153053.3/7

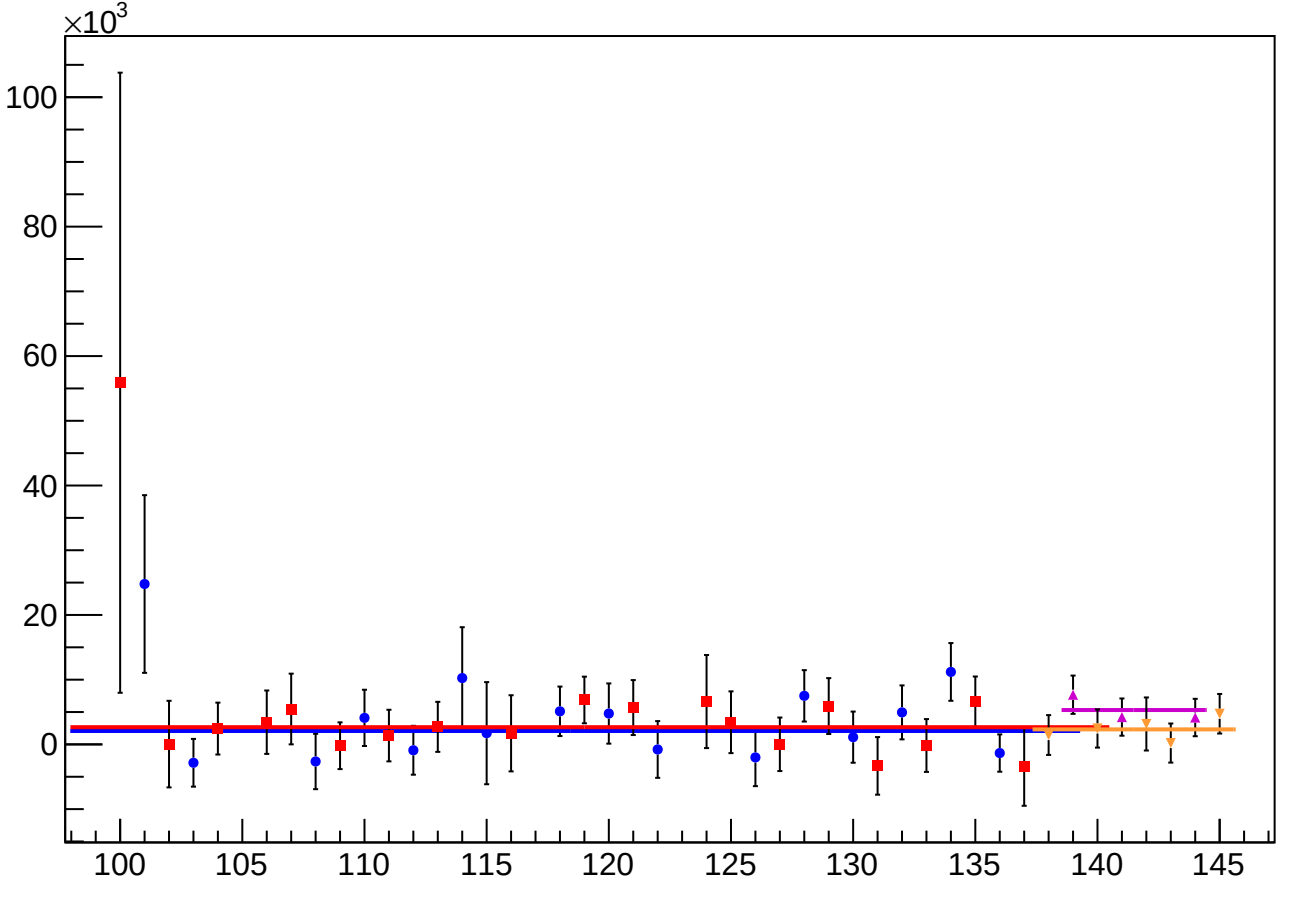
Right: 574.453+/-0.113 $\chi^2$/NDF: 3511078.0/34

In: 649.453+/-0.159 $\chi^2$/NDF:3021304.6/18

Out: 624.141+/-0.144 $\chi^2$/NDF:3340578.7/23

All: 635.557+/-0.107 $\chi^2$/NDF: 6375727.0/42

# eigen_dit_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2074.766+/-1077.182 $\chi^2$/NDF: 17.9/15

Left Out: 2319.630+/-1419.072 $\chi^2$/NDF:1.2/4

Right Out: 2657.300+/-1049.868 $\chi^2$/NDF: 9.9/18

Left In: 5310.209+/-1678.658 $\chi^2$/NDF:0.9/2

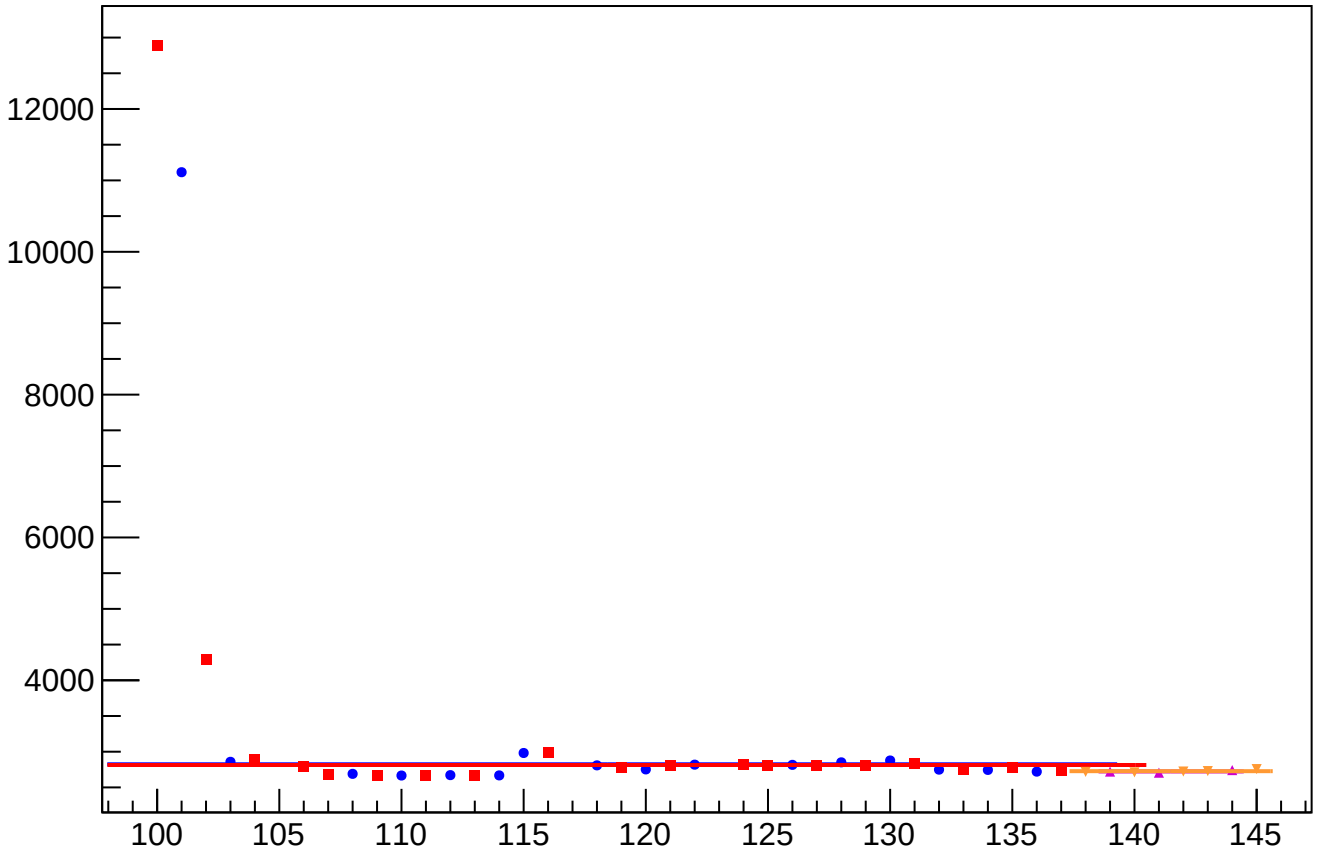
Left: 3566.060+/-1083.724 $\chi^2$/NDF: 4.0/7

Right: 2373.512+/-751.840 $\chi^2$/NDF: 28.0/34

In: 3018.444+/-906.582 $\chi^2$/NDF:21.5/18

Out: 2537.855+/-843.998 $\chi^2$/NDF:11.2/23

All: 2760.990+/-617.738 $\chi^2$/NDF: 32.8/42




Right In: 2823.448+/-0.762 $\chi^2$/NDF: 743916.1/15

Left Out: 2727.292+/-1.003 $\chi^2$/NDF:265.6/4

Right Out: 2813.821+/-0.742 $\chi^2$/NDF: 200511.7/18

Left In: 2723.369+/-1.187 $\chi^2$/NDF:159.6/2

Left: 2725.657+/-0.766 $\chi^2$/NDF: 431.6/7

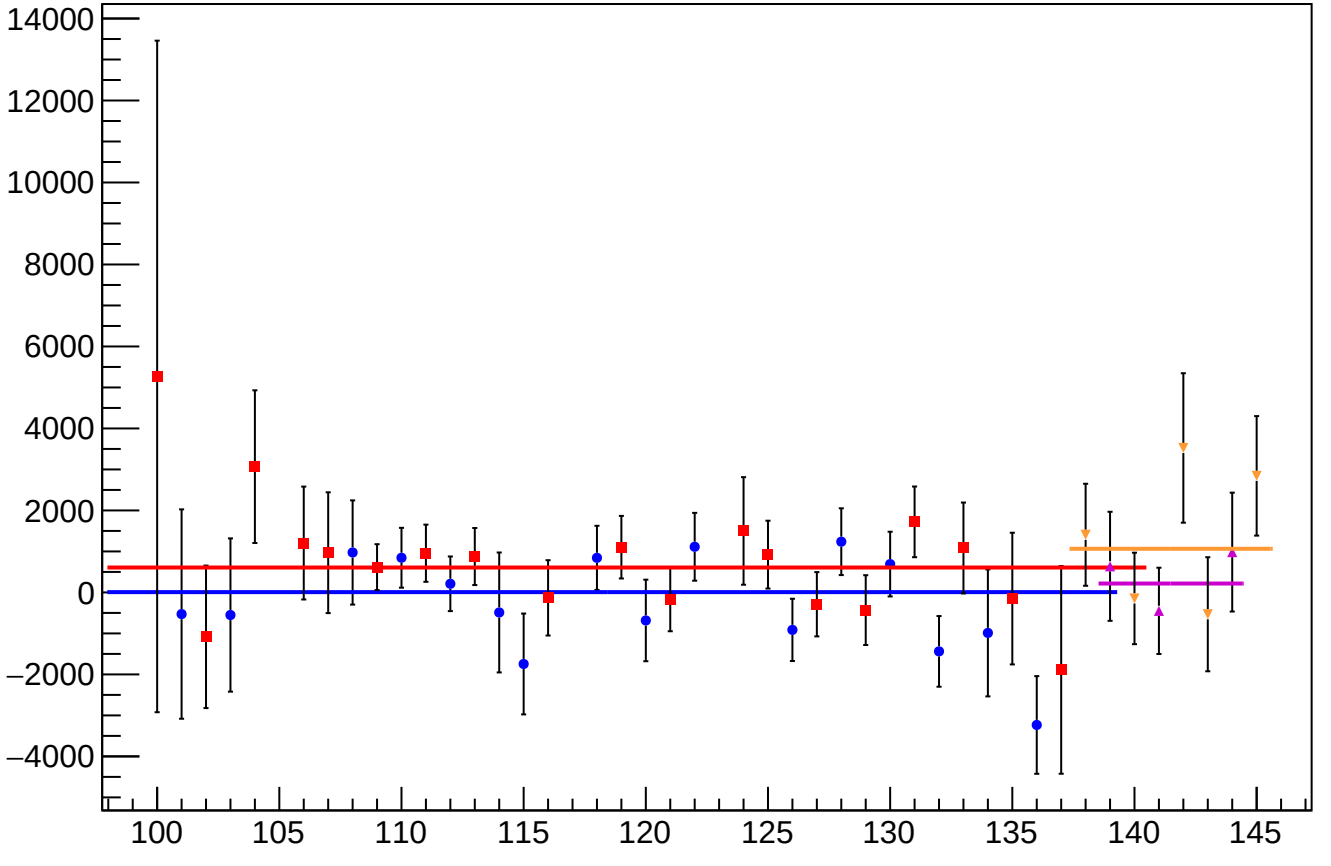
Right: 2818.511+/-0.532 $\chi^2$/NDF: 944509.7/34

In: 2794.258+/-0.641 $\chi^2$/NDF:749111.0/18

Out: 2783.213+/-0.597 $\chi^2$/NDF:205583.1/23

All: 2788.341+/-0.437 $\chi^2$/NDF: 954853.1/42

asym_atr1_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 7.049+/-237.455 $\chi^2$/NDF: 22.8/15

Left Out: 1064.802+/-604.451 $\chi^2$/NDF:5.9/4

Right Out: 607.647+/-217.094 $\chi^2$/NDF: 12.2/18

Left In: 216.961+/-717.268 $\chi^2$/NDF:0.8/2

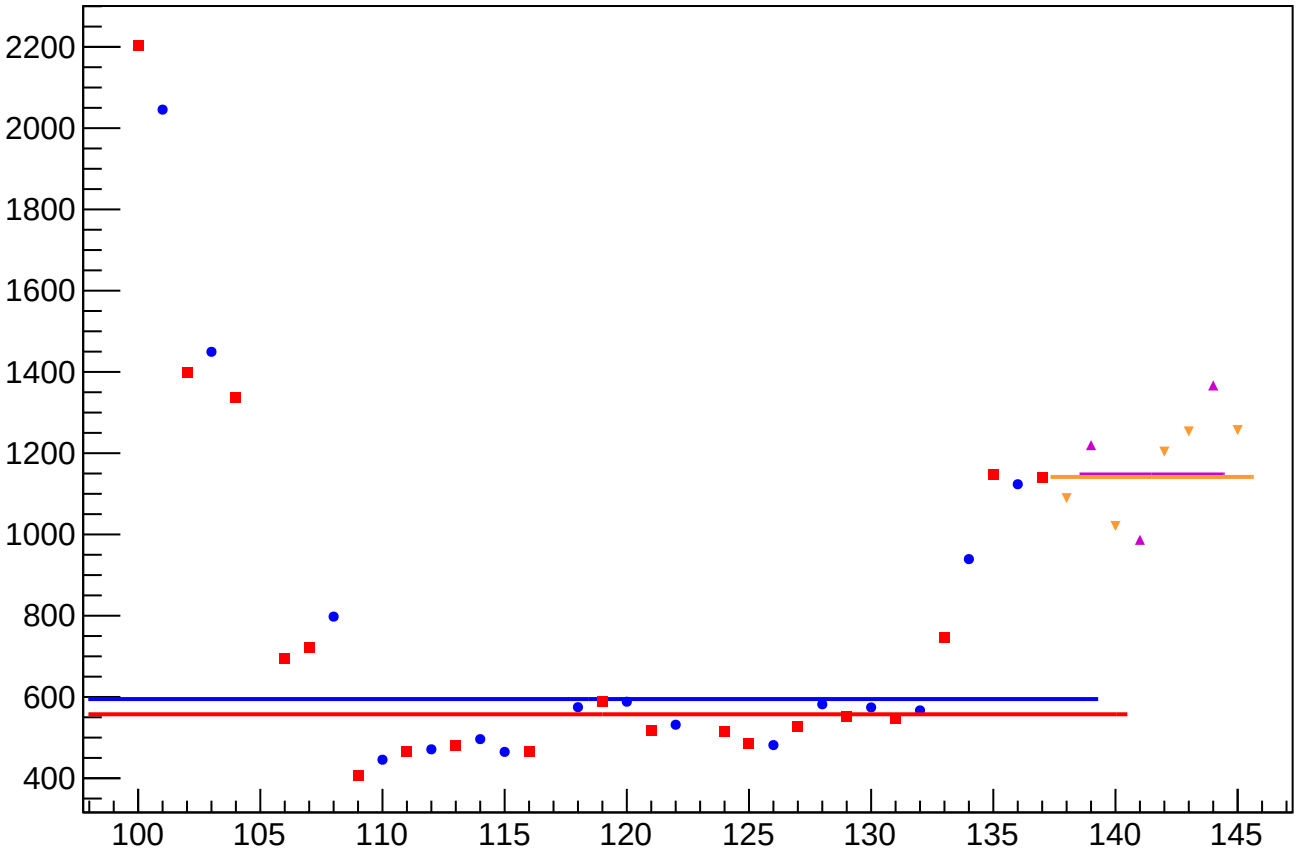
Left: 712.727+/-462.213 $\chi^2$/NDF: 7.5/7

Right: 334.198+/-160.224 $\chi^2$/NDF: 38.5/34

In: 27.782+/-225.423 $\chi^2$/NDF:23.7/18

Out: 659.880+/-204.315 $\chi^2$/NDF:18.5/23

All: 374.804+/-151.387 $\chi^2$/NDF: 46.5/42




Right In: 594.858+/-0.168 $\chi^2$/NDF: 1852649.9/15

Left Out: 1141.559+/-0.427 $\chi^2$/NDF:54712.8/4

Right Out: 557.397+/-0.154 $\chi^2$/NDF: 1631307.0/18

Left In: 1147.597+/-0.507 $\chi^2$/NDF:98259.4/2

Left: 1144.066+/-0.327 $\chi^2$/NDF: 153055.1/7

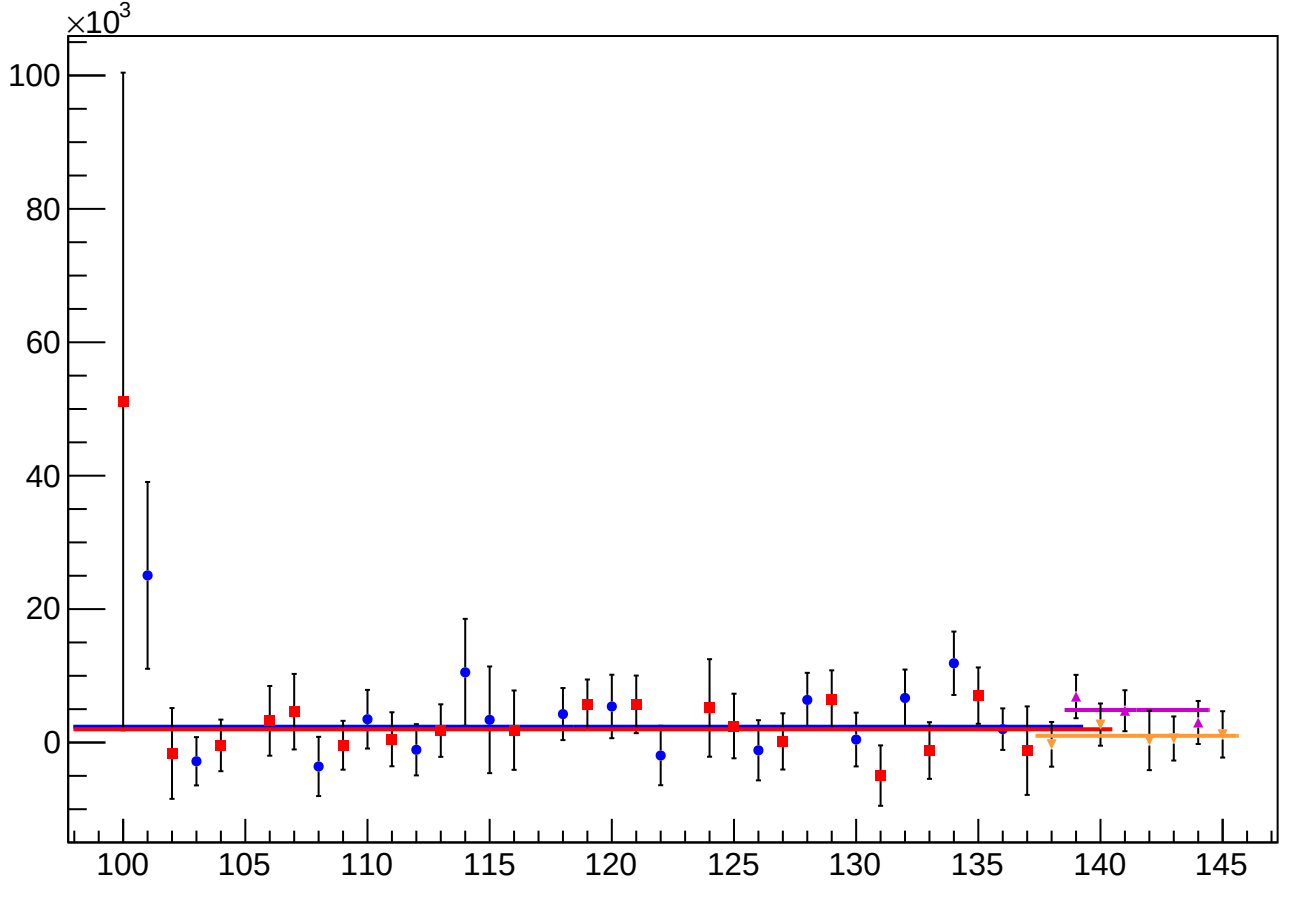
Right: 574.453+/-0.113 $\chi^2$/NDF: 3511070.4/34

In: 649.453+/-0.159 $\chi^2$/NDF:3021298.9/18

Out: 624.141+/-0.144 $\chi^2$/NDF:3340577.7/23

All: 635.557+/-0.107 $\chi^2$/NDF: 6375720.7/42

# asym_atr1_mean vs Slug, Sign Corrected




Right In: 2367.173+/-1106.203 $\chi^2$/NDF: 16.8/15

Left Out: 1004.423+/-1554.562 $\chi^2$/NDF:0.5/4

Right Out: 1987.039+/-1075.310 $\chi^2$/NDF: 10.3/18

Left In: 4875.341+/-1835.661 $\chi^2$/NDF:0.7/2

Left: 2621.118+/-1186.314 $\chi^2$/NDF: 3.8/7

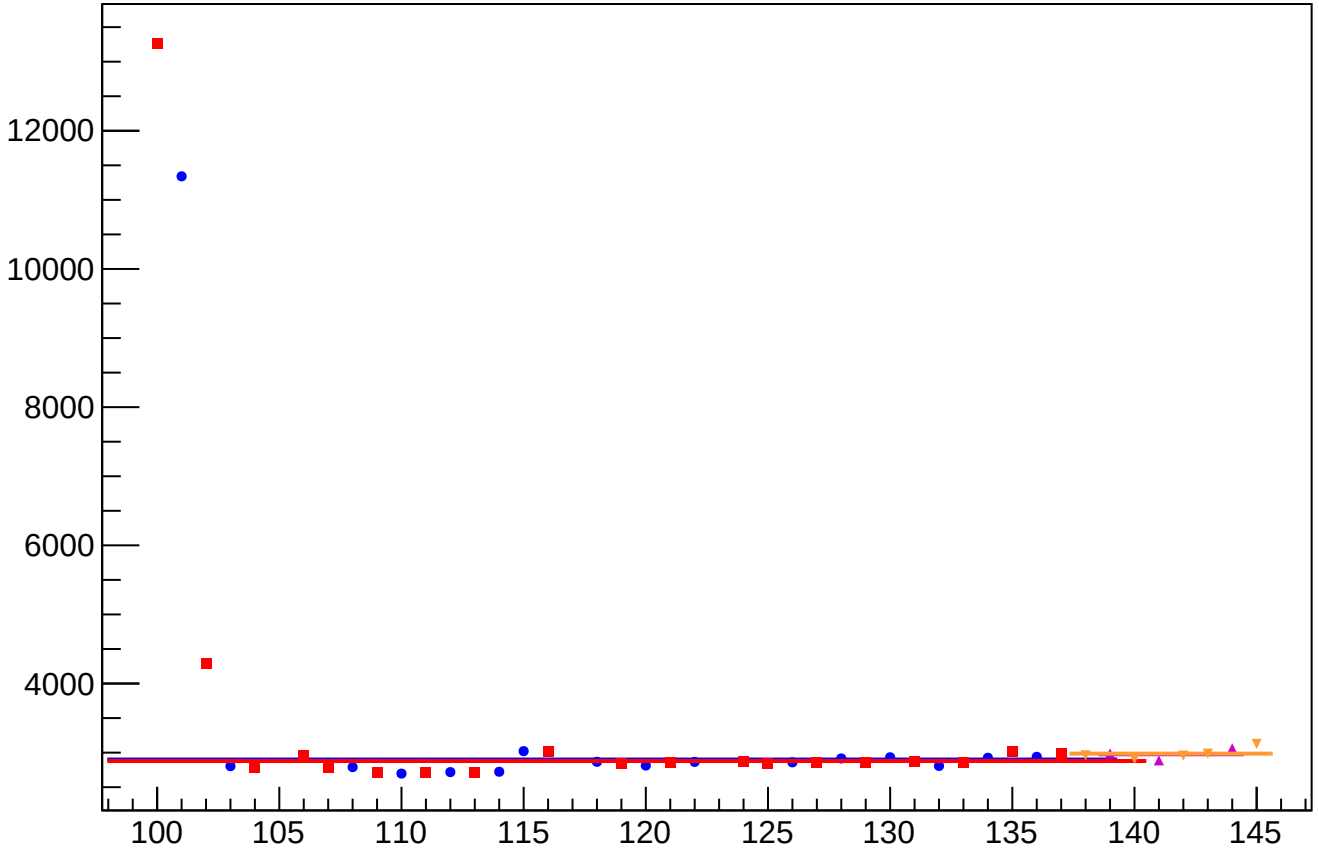
Right: 2171.724+/-771.049 $\chi^2$/NDF: 27.2/34

In: 3035.360+/-947.465 $\chi^2$/NDF:18.9/18

Out: 1669.042+/-884.358 $\chi^2$/NDF:11.0/23

All: 2305.186+/-646.495 $\chi^2$/NDF: 31.1/42

# asym_atr1_rms vs Slug, Sign Corrected




Right In: 2899.827+/-0.782 $\chi^2$/NDF: 741818.2/15

Left Out: 2985.382+/-1.099 $\chi^2$/NDF:4785.7/4

Right Out: 2878.957+/-0.760 $\chi^2$/NDF: 193282.4/18

Left In: 2976.284+/-1.298 $\chi^2$/NDF:3095.6/2

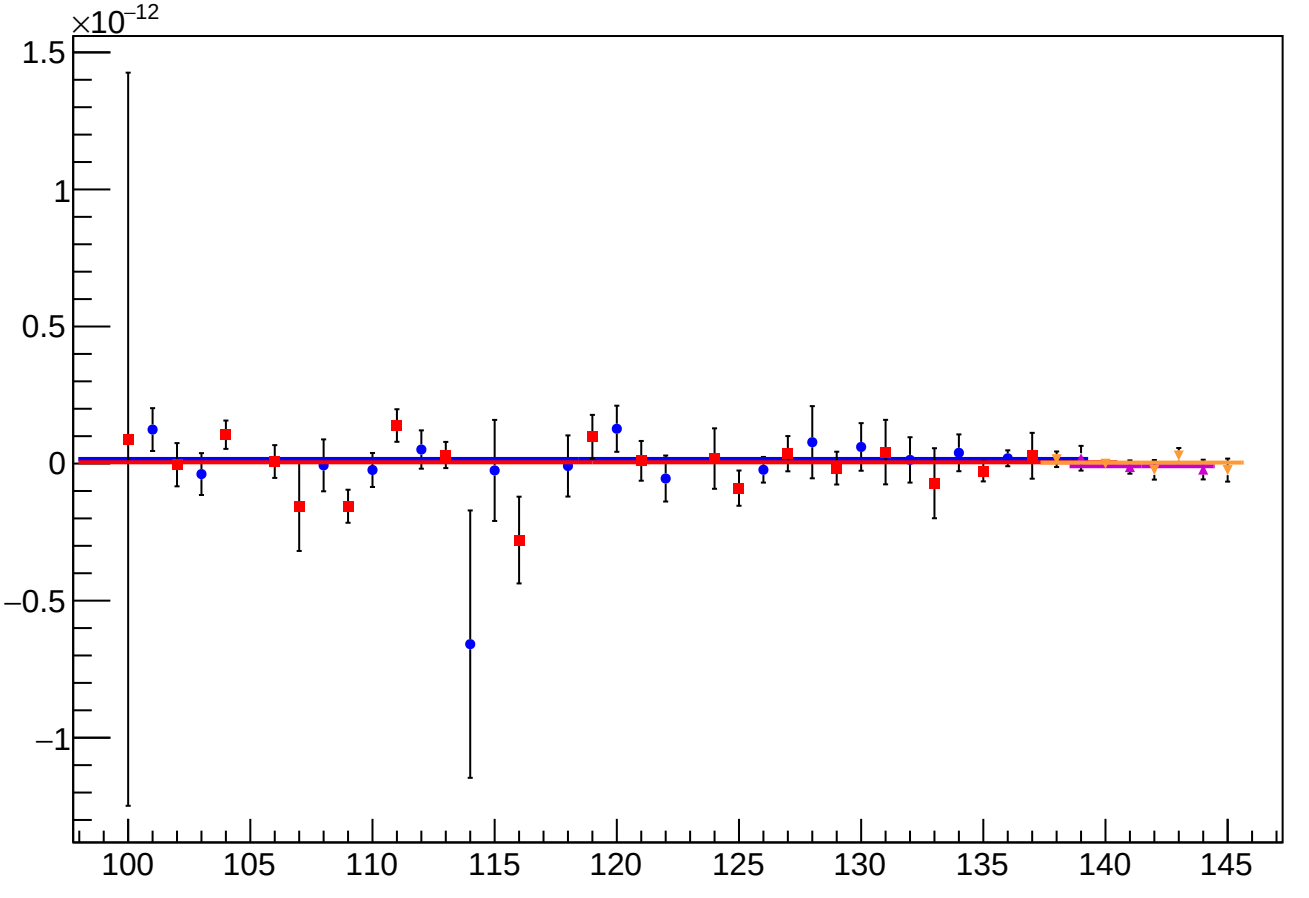
Left: 2981.582+/-0.839 $\chi^2$/NDF: 7909.9/7

Right: 2889.097+/-0.545 $\chi^2$/NDF: 935466.6/34

In: 2920.196+/-0.670 $\chi^2$/NDF:747459.0/18

Out: 2913.398+/-0.625 $\chi^2$/NDF:204408.1/23

All: 2916.563+/-0.457 $\chi^2$/NDF: 951922.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.5/2

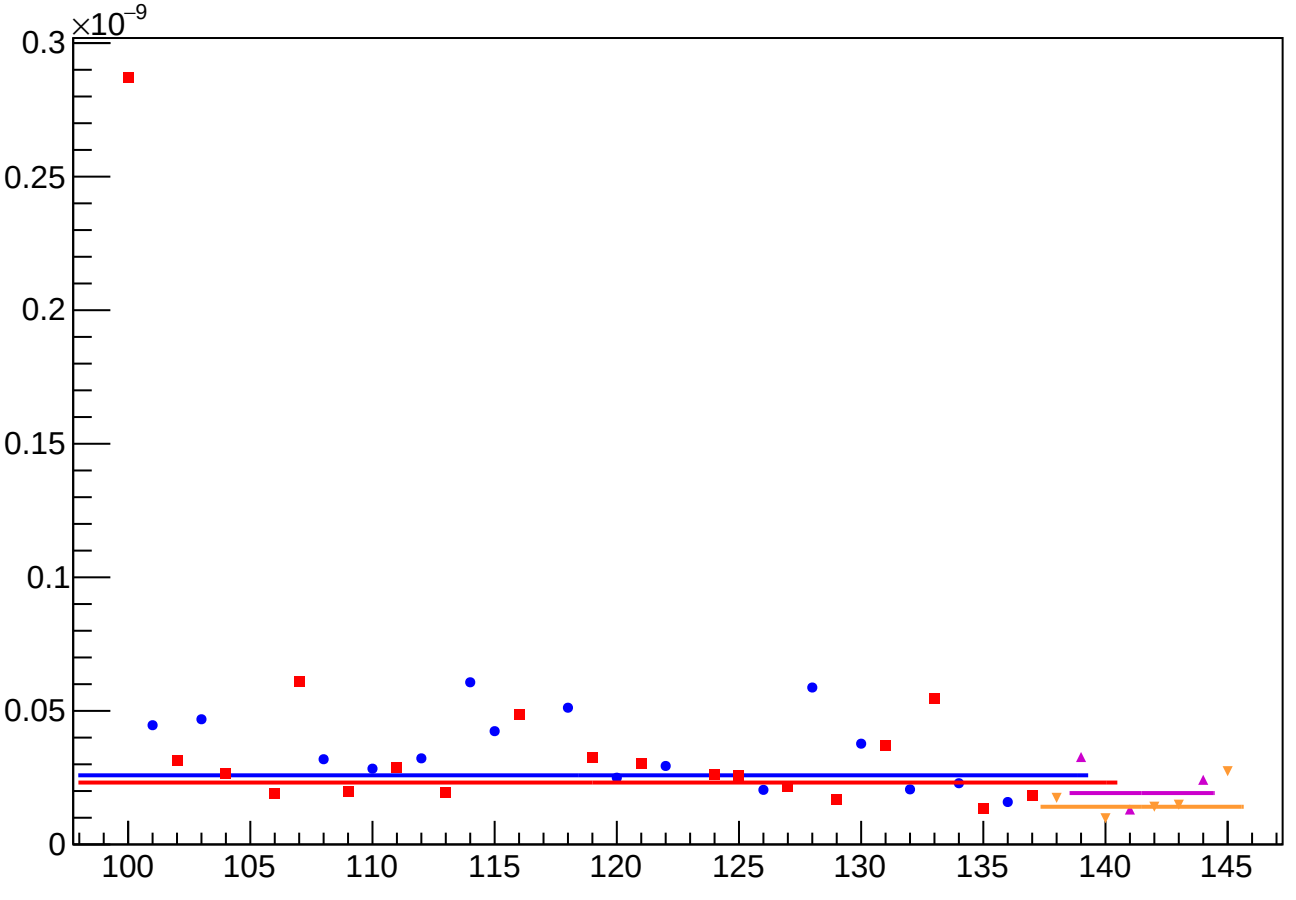
Left: -0.000+/-0.000 $\chi^2$/NDF: 3.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 34.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:10.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:27.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 38.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 865479.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:339236.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 688853.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:346290.8/2

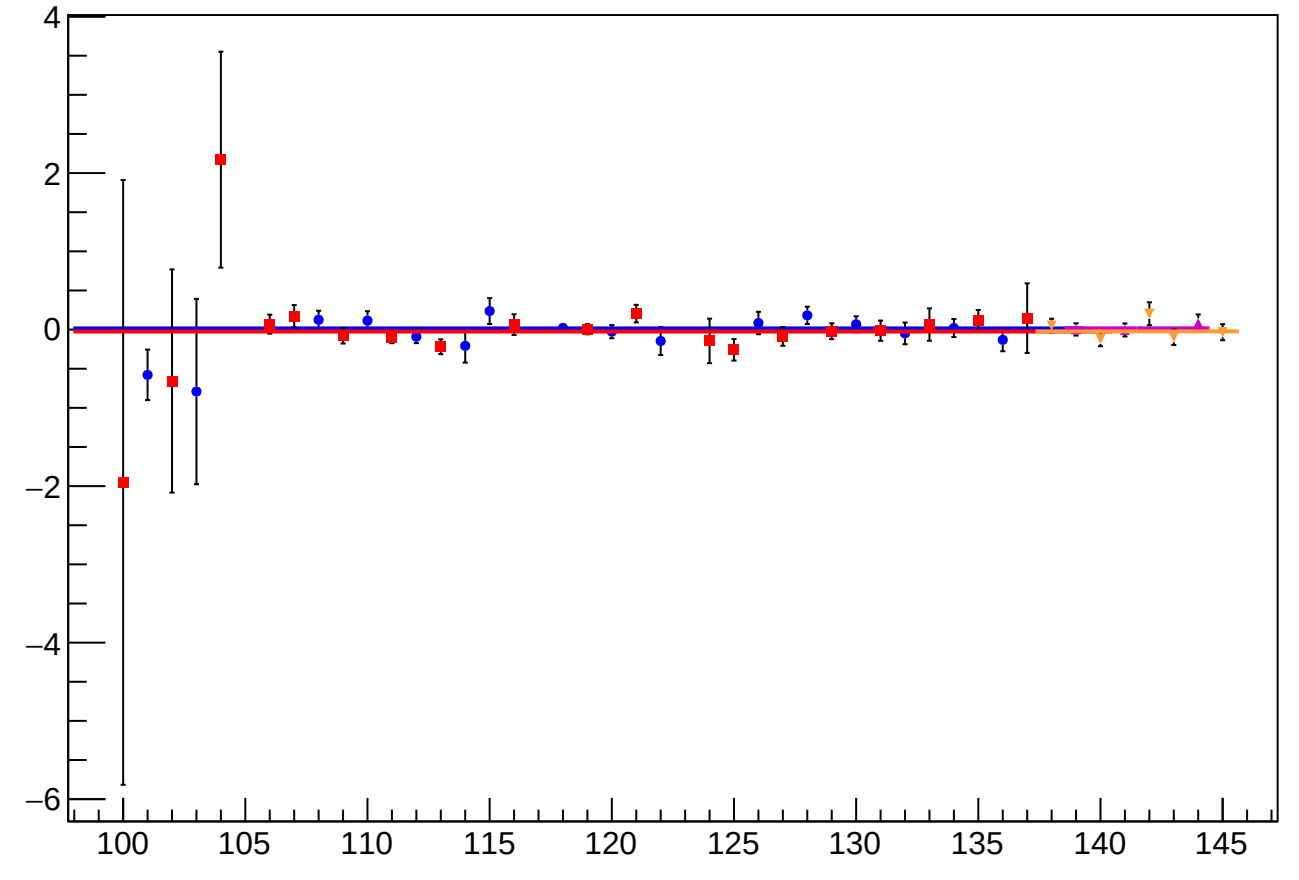
Left: 0.000+/-0.000 $\chi^2$/NDF: 794368.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 1581998.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:1353957.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:1447348.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 3034702.4/42




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: -0.023+/-0.045 $\chi^2$/NDF:4.8/4

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: 0.016+/-0.051 $\chi^2$/NDF:0.4/2

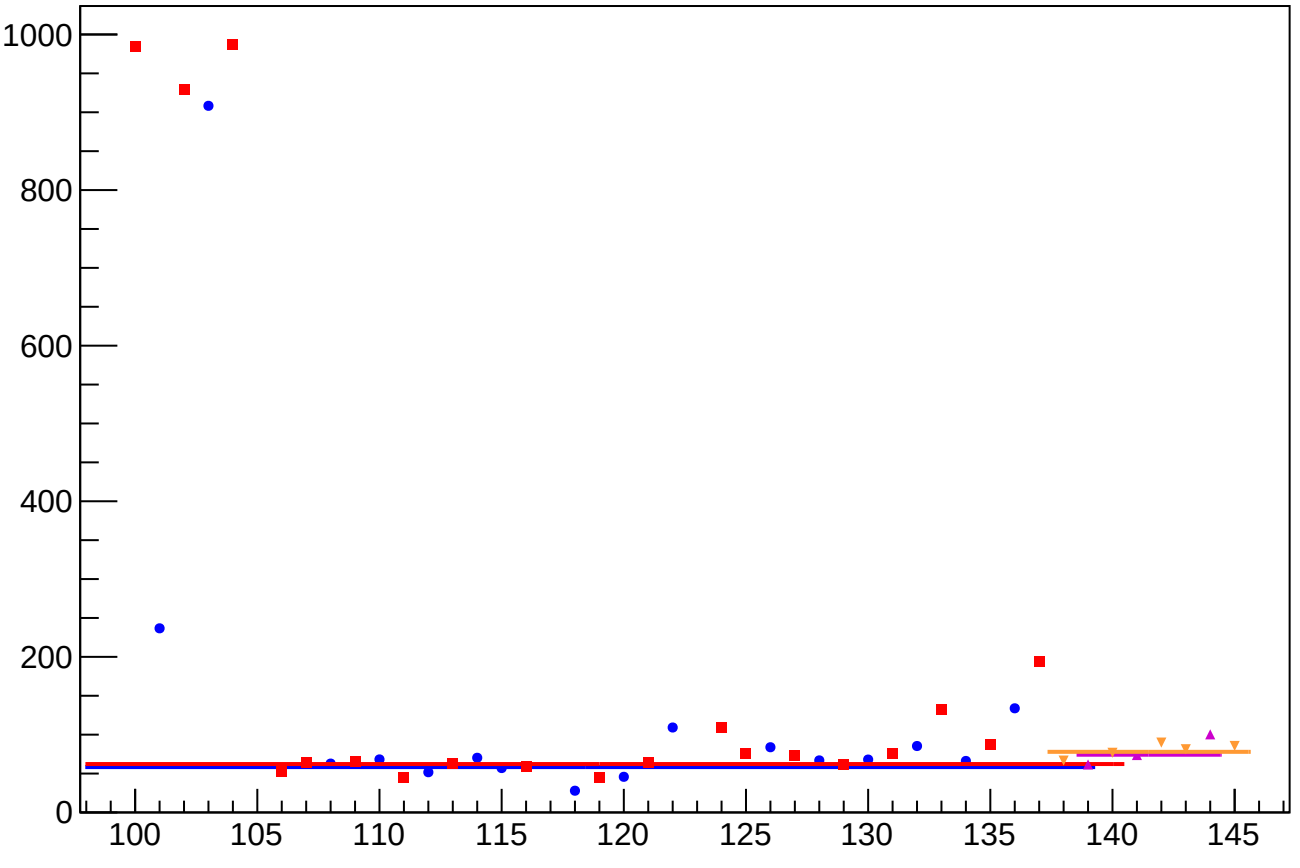
Left: -0.006+/-0.034 $\chi^2$/NDF: 5.5/7

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: 0.015+/-0.024 $\chi^2$/NDF:15.5/18

Out: -0.024+/-0.024 $\chi^2$/NDF:25.6/23

All: -0.005+/-0.017 $\chi^2$/NDF: 42.4/42




Right In: 58.313+/-0.020 $\chi^2$/NDF: 3260404.3/15

Left Out: 77.922+/-0.032 $\chi^2$/NDF:59585.6/4

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627030.1/18

Left In: 74.217+/-0.036 $\chi^2$/NDF:162220.0/2

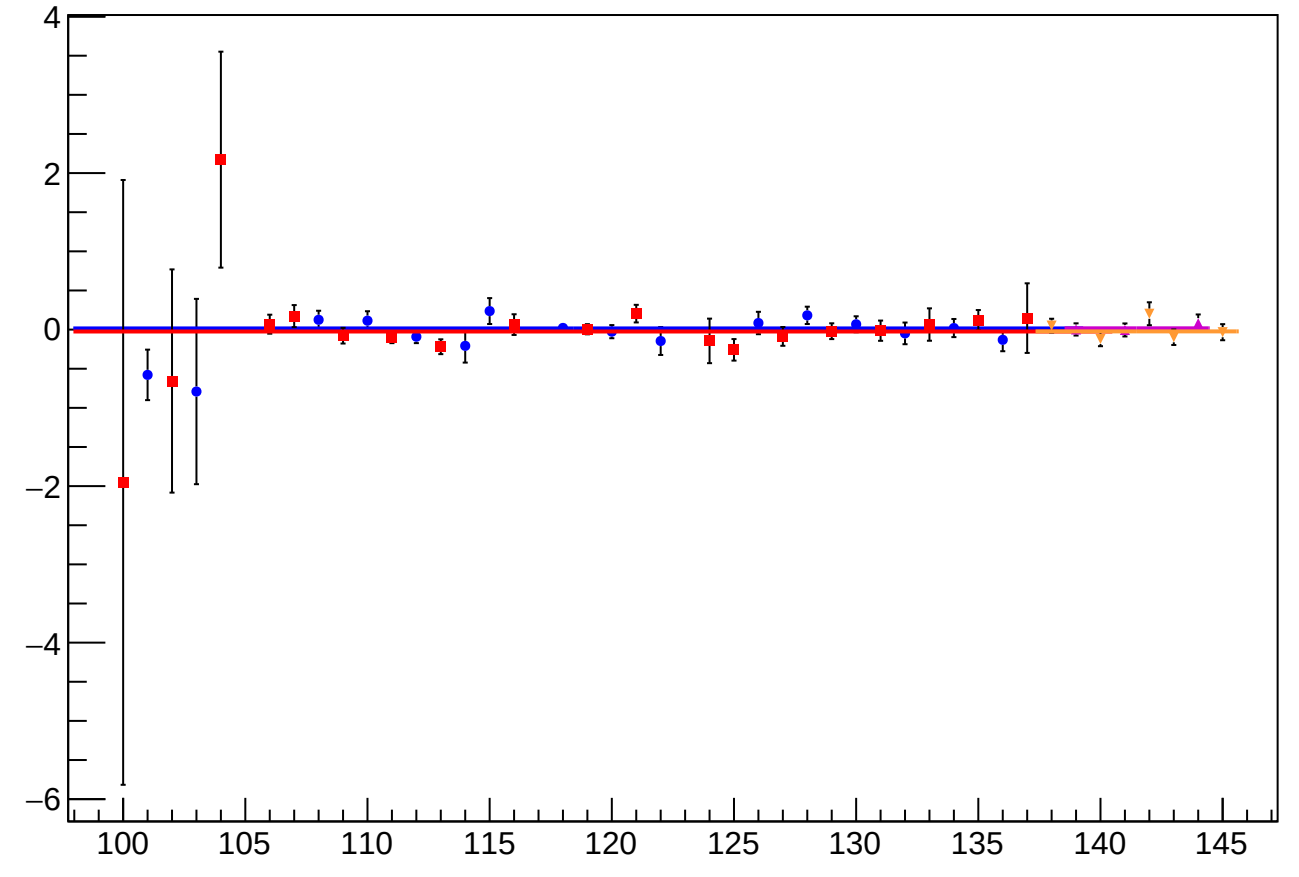
Left: 76.285+/-0.024 $\chi^2$/NDF: 227767.6/7

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907159.6/34

In: 61.996+/-0.017 $\chi^2$/NDF:3573896.4/18

Out: 66.605+/-0.017 $\chi^2$/NDF:2861127.1/23

All: 64.357+/-0.012 $\chi^2$/NDF: 6471583.0/42




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: -0.023+/-0.045 $\chi^2$/NDF:4.8/4

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: 0.016+/-0.051 $\chi^2$/NDF:0.4/2

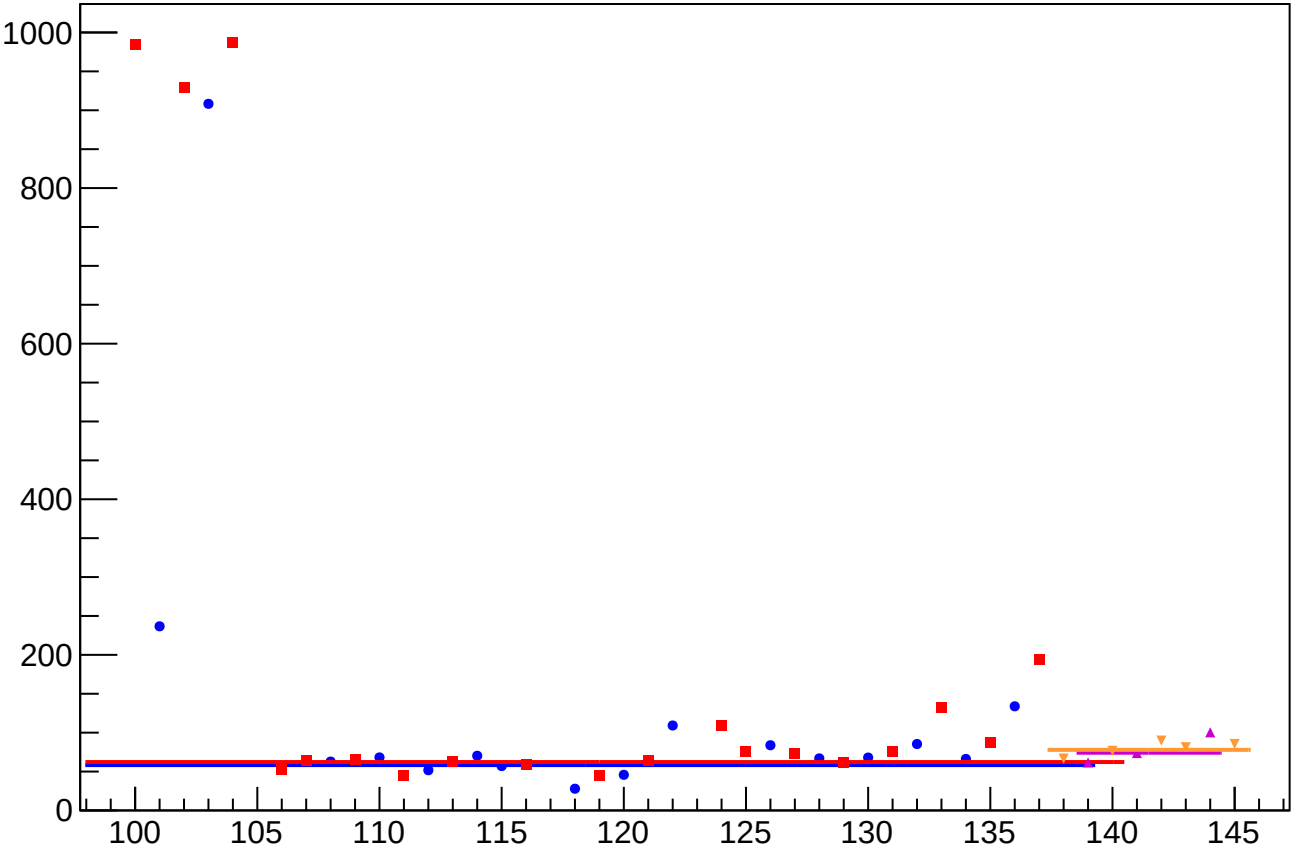
Left: -0.006+/-0.034 $\chi^2$/NDF: 5.5/7

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: 0.015+/-0.024 $\chi^2$/NDF:15.5/18

Out: -0.024+/-0.024 $\chi^2$/NDF:25.6/23

All: -0.005+/-0.017 $\chi^2$/NDF: 42.4/42




Right In: 58.313+/-0.020 $\chi^2$/NDF: 3260404.3/15

Left Out: 77.922+/-0.032 $\chi^2$/NDF:59585.6/4

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627030.1/18

Left In: 74.217+/-0.036 $\chi^2$/NDF:162220.0/2

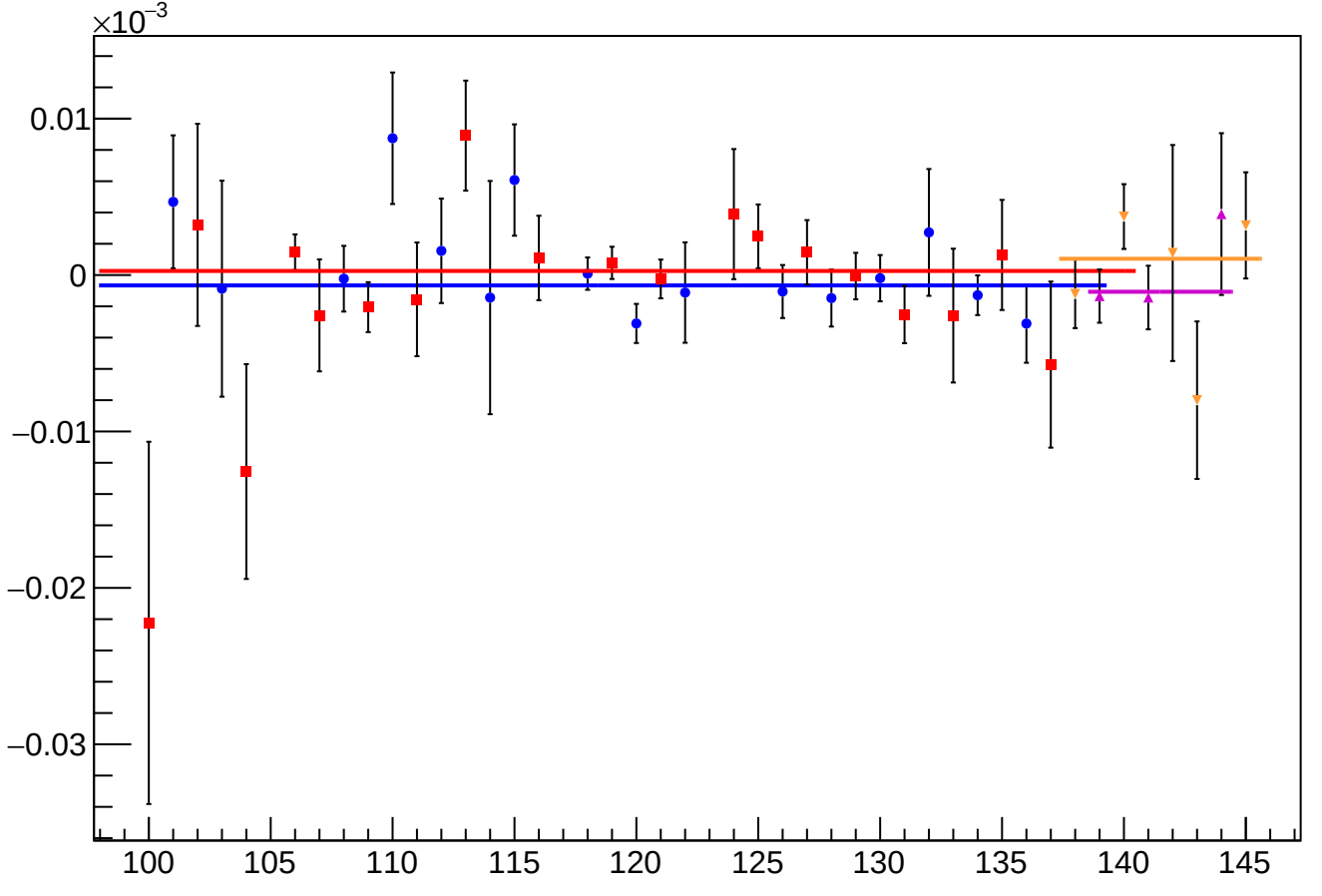
Left: 76.285+/-0.024 $\chi^2$/NDF: 227767.6/7

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907159.6/34

In: 61.996+/-0.017 $\chi^2$/NDF:3573896.4/18

Out: 66.605+/-0.017 $\chi^2$/NDF:2861127.1/23

All: 64.357+/-0.012 $\chi^2$/NDF: 6471583.0/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 24.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.0/2

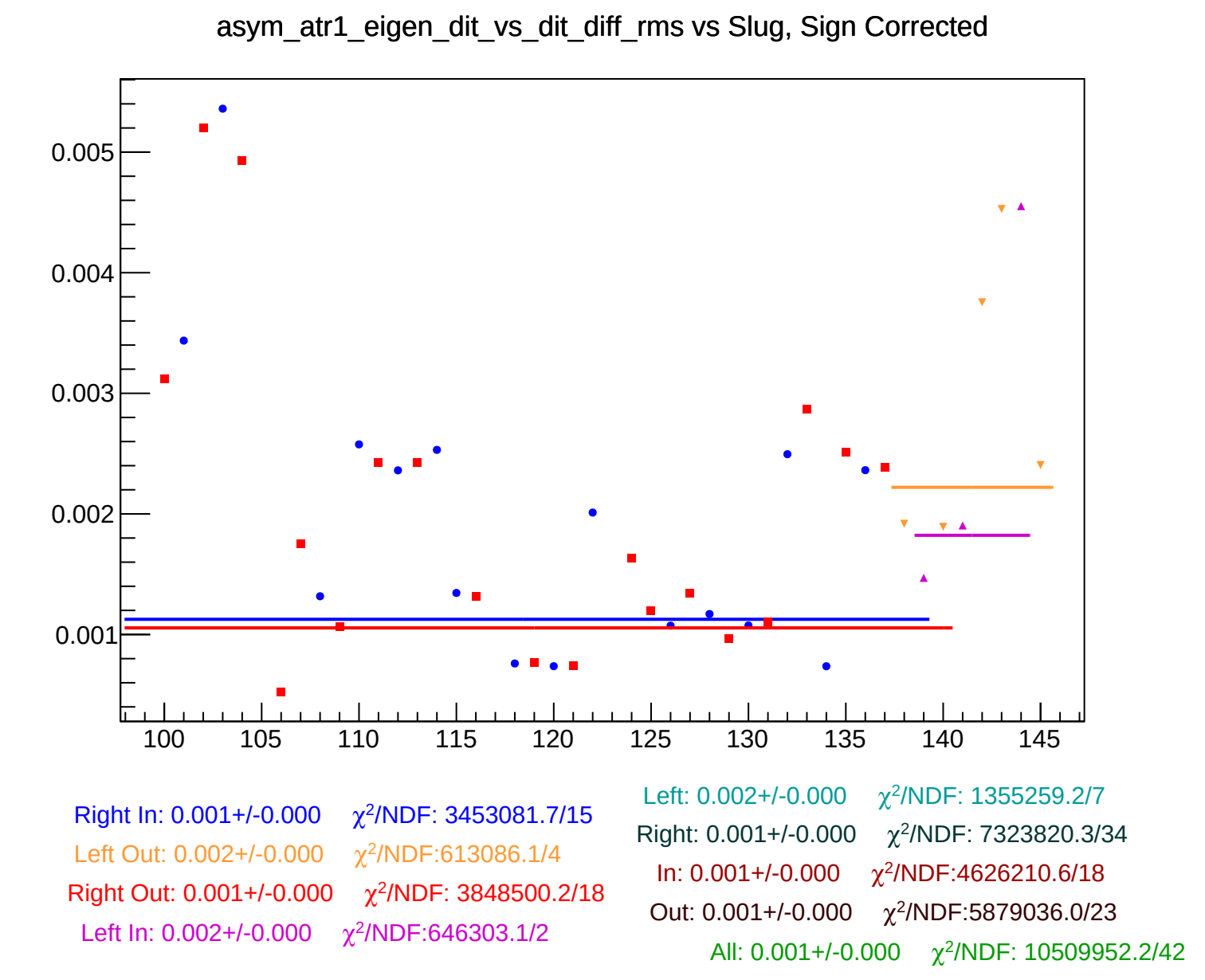
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.7/7

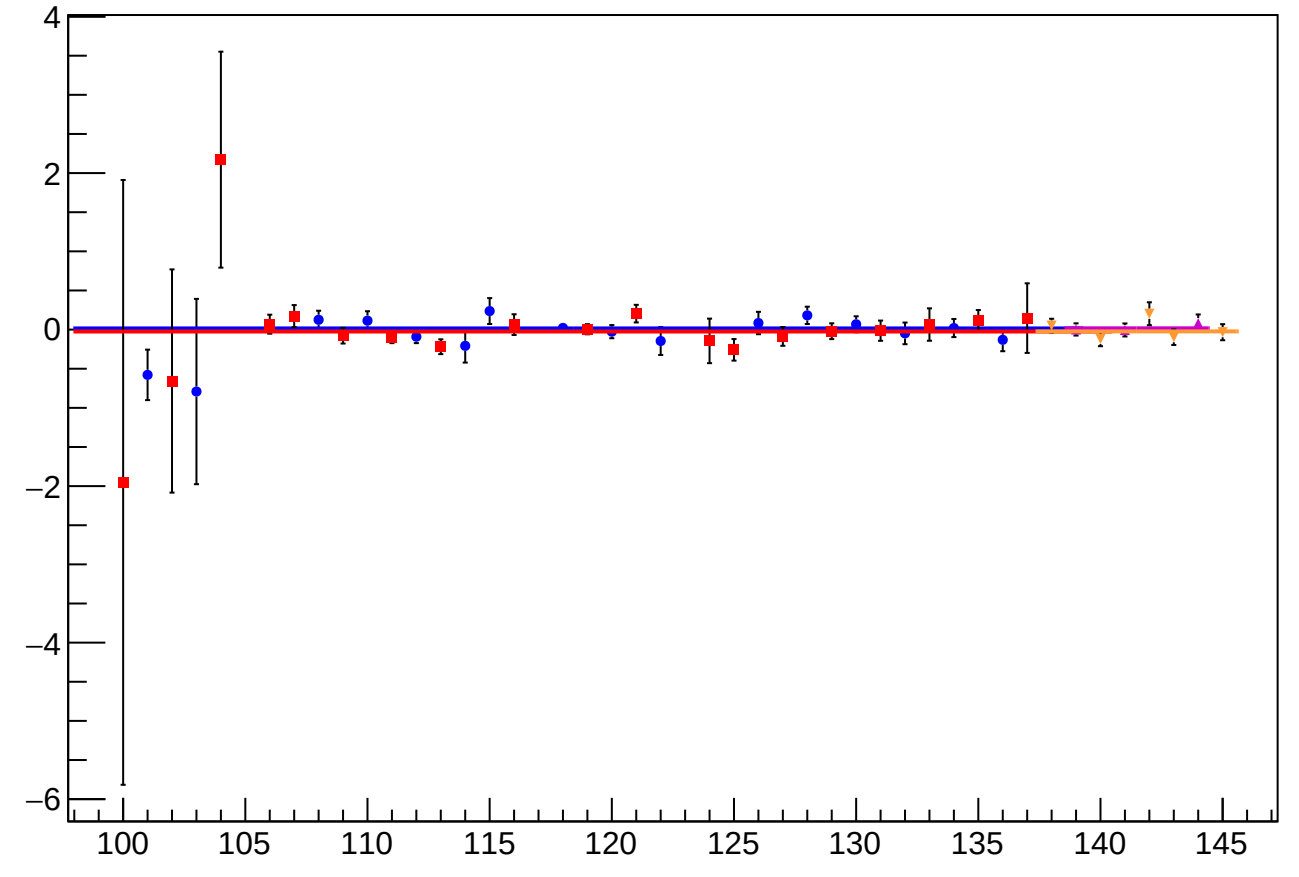
Right: -0.000+/-0.000 $\chi^2$/NDF: 43.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:31.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 52.4/42


asym_atr1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.005
0.004
0.003
0.002
0.001
100
105
110
115
120
125
130
135
140
145
Right In: 0.001+/-0.000 χ²/NDF: 3453081.7/15
Left Out: 0.002+/-0.000 χ²/NDF:613086.1/4
Right Out: 0.001+/-0.000 χ²/NDF: 3848500.2/18
Left In: 0.002+/-0.000 χ²/NDF:646303.1/2
Left: 0.002+/-0.000 χ²/NDF: 1355259.2/7
Right: 0.001+/-0.000 χ²/NDF: 7323820.3/34
In: 0.001+/-0.000 χ²/NDF:4626210.6/18
Out: 0.001+/-0.000 χ²/NDF:5879036.0/23
All: 0.001+/-0.000 χ²/NDF: 10509952.2/42




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: -0.023+/-0.045 $\chi^2$/NDF:4.8/4

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: 0.016+/-0.051 $\chi^2$/NDF:0.4/2

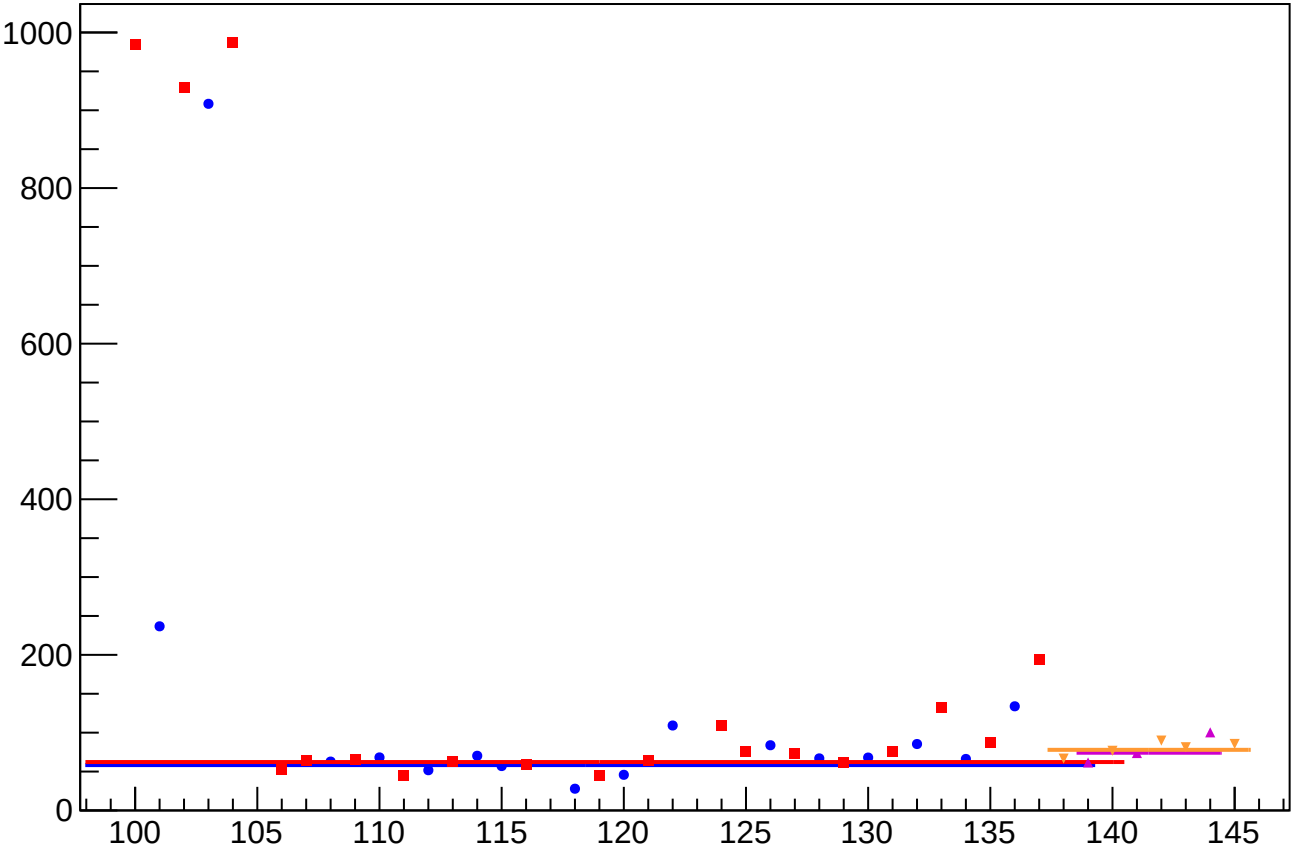
Left: -0.006+/-0.034 $\chi^2$/NDF: 5.5/7

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: 0.015+/-0.024 $\chi^2$/NDF:15.5/18

Out: -0.024+/-0.024 $\chi^2$/NDF:25.6/23

All: -0.005+/-0.017 $\chi^2$/NDF: 42.4/42




Right In: 58.312+/-0.020 $\chi^2$/NDF: 3260484.2/15

Left Out: 77.922+/-0.032 $\chi^2$/NDF:59588.7/4

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627022.3/18

Left In: 74.218+/-0.036 $\chi^2$/NDF:162217.6/2

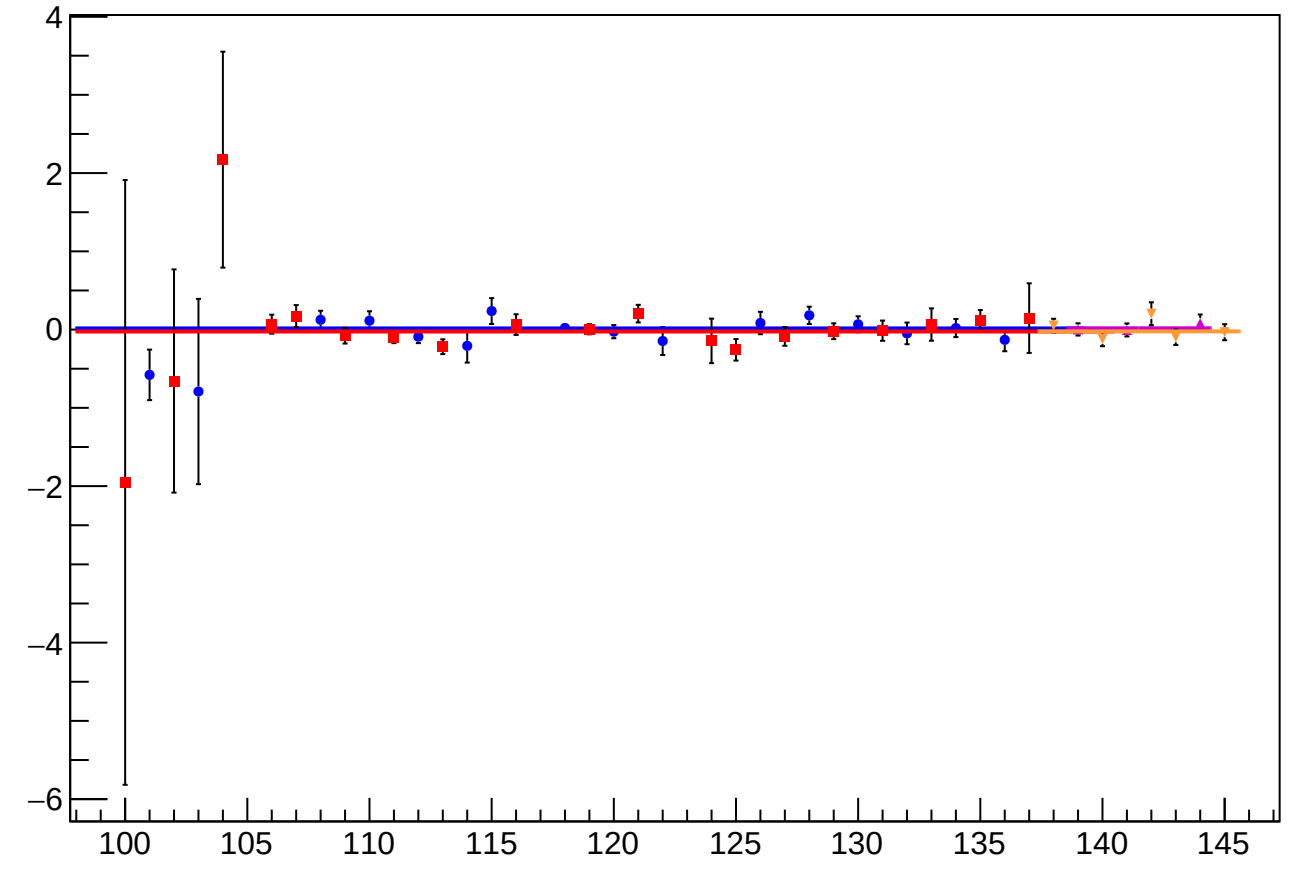
Left: 76.285+/-0.024 $\chi^2$/NDF: 227764.4/7

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907238.5/34

In: 61.996+/-0.017 $\chi^2$/NDF:3574000.8/18

Out: 66.605+/-0.017 $\chi^2$/NDF:2861113.5/23

All: 64.357+/-0.012 $\chi^2$/NDF: 6471678.6/42




Right In: 0.015+/-0.028 $\chi^2$/NDF: 15.0/15

Left Out: -0.023+/-0.045 $\chi^2$/NDF:4.8/4

Right Out: -0.024+/-0.028 $\chi^2$/NDF: 20.8/18

Left In: 0.016+/-0.051 $\chi^2$/NDF:0.4/2

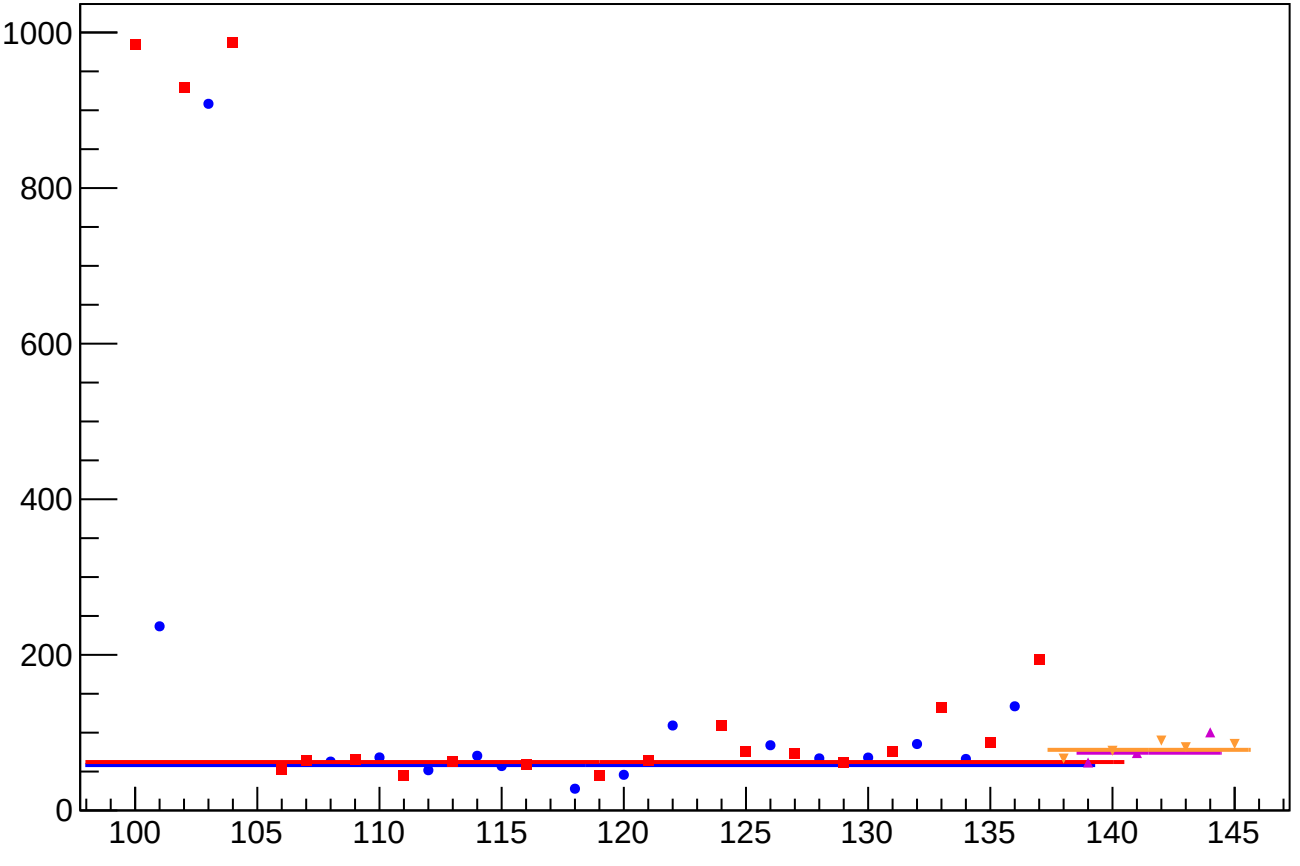
Left: -0.006+/-0.034 $\chi^2$/NDF: 5.5/7

Right: -0.004+/-0.020 $\chi^2$/NDF: 36.8/34

In: 0.015+/-0.024 $\chi^2$/NDF:15.5/18

Out: -0.024+/-0.024 $\chi^2$/NDF:25.6/23

All: -0.005+/-0.017 $\chi^2$/NDF: 42.4/42




Right In: 58.312+/-0.020 $\chi^2$/NDF: 3260484.2/15

Left Out: 77.922+/-0.032 $\chi^2$/NDF:59588.7/4

Right Out: 62.235+/-0.020 $\chi^2$/NDF: 2627022.3/18

Left In: 74.218+/-0.036 $\chi^2$/NDF:162217.6/2

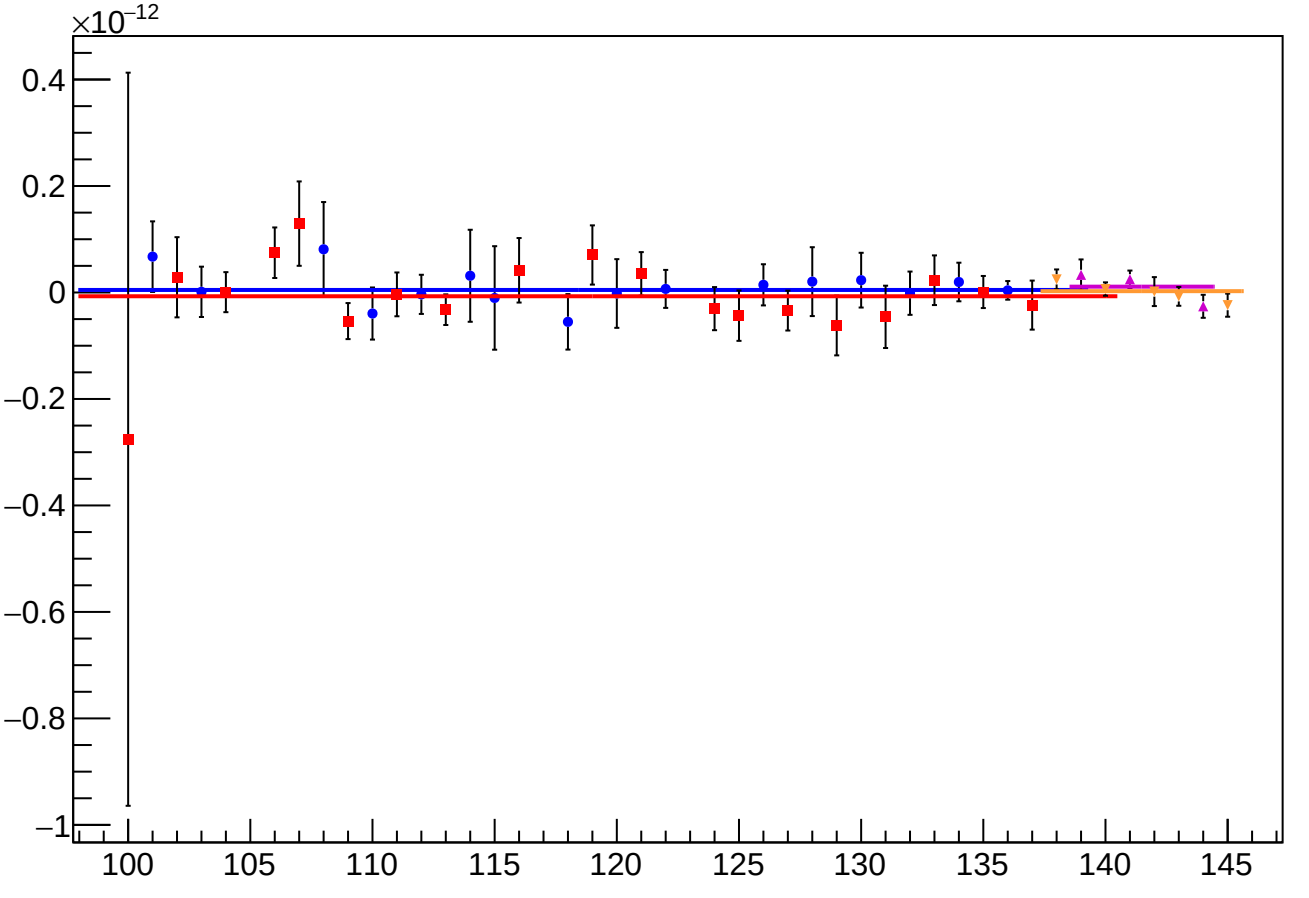
Left: 76.285+/-0.024 $\chi^2$/NDF: 227764.4/7

Right: 60.260+/-0.014 $\chi^2$/NDF: 5907238.5/34

In: 61.996+/-0.017 $\chi^2$/NDF:3574000.8/18

Out: 66.605+/-0.017 $\chi^2$/NDF:2861113.5/23

All: 64.357+/-0.012 $\chi^2$/NDF: 6471678.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.3/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.2/2

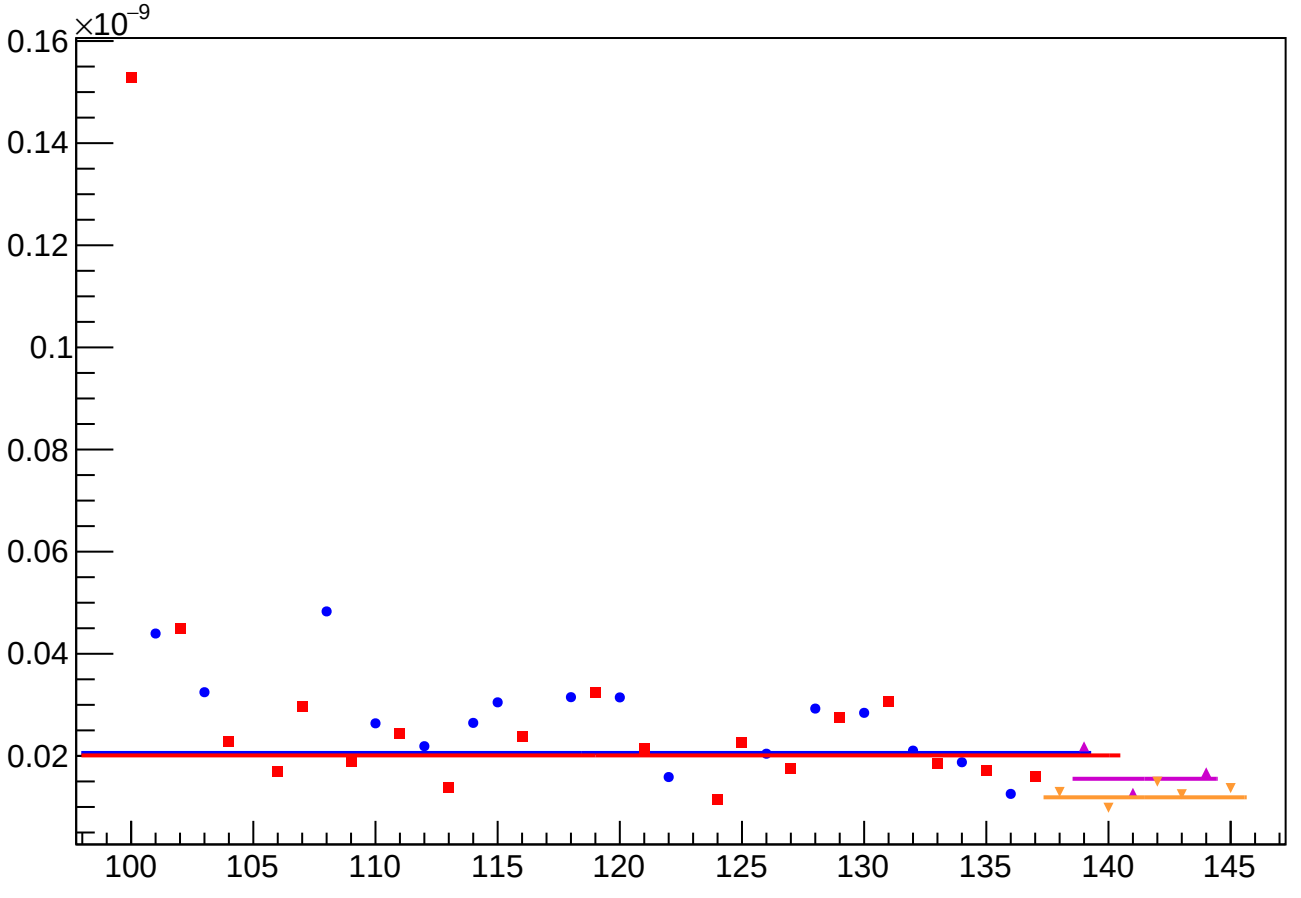
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 21.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:8.8/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 29.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1319631.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:100591.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 812191.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:159768.8/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 389229.5/7

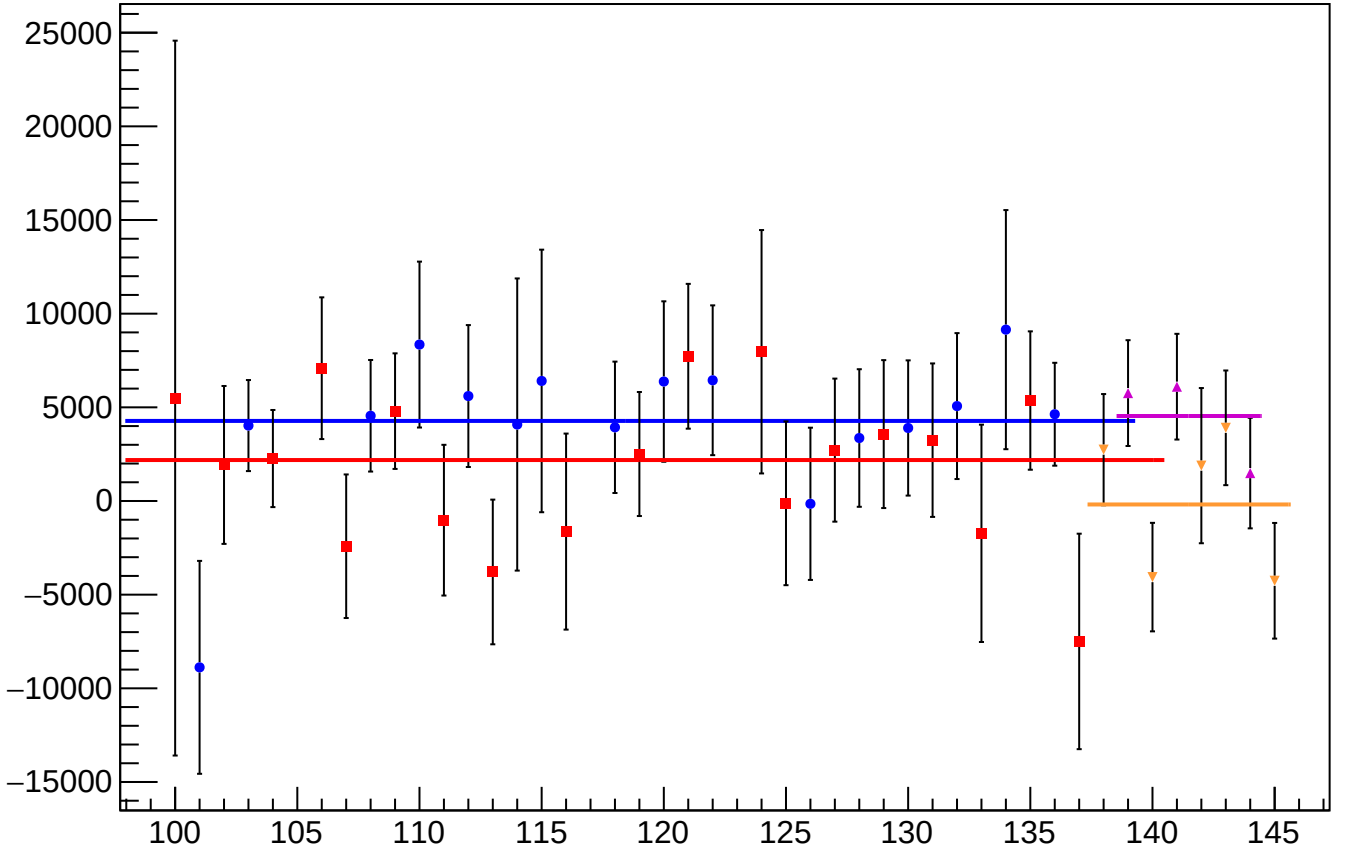
Right: 0.000+/-0.000 $\chi^2$/NDF: 2134051.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1687205.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:1726479.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 3646197.6/42

# reg_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4274.393+/-951.956 $\chi^2$/NDF: 8.9/15

Left Out: -185.057+/-1410.470 $\chi^2$/NDF:6.5/4

Right Out: 2186.264+/-922.104 $\chi^2$/NDF: 14.8/18

Left In: 4537.363+/-1653.428 $\chi^2$/NDF:1.6/2

Left: 1804.020+/-1073.071 $\chi^2$/NDF: 12.8/7

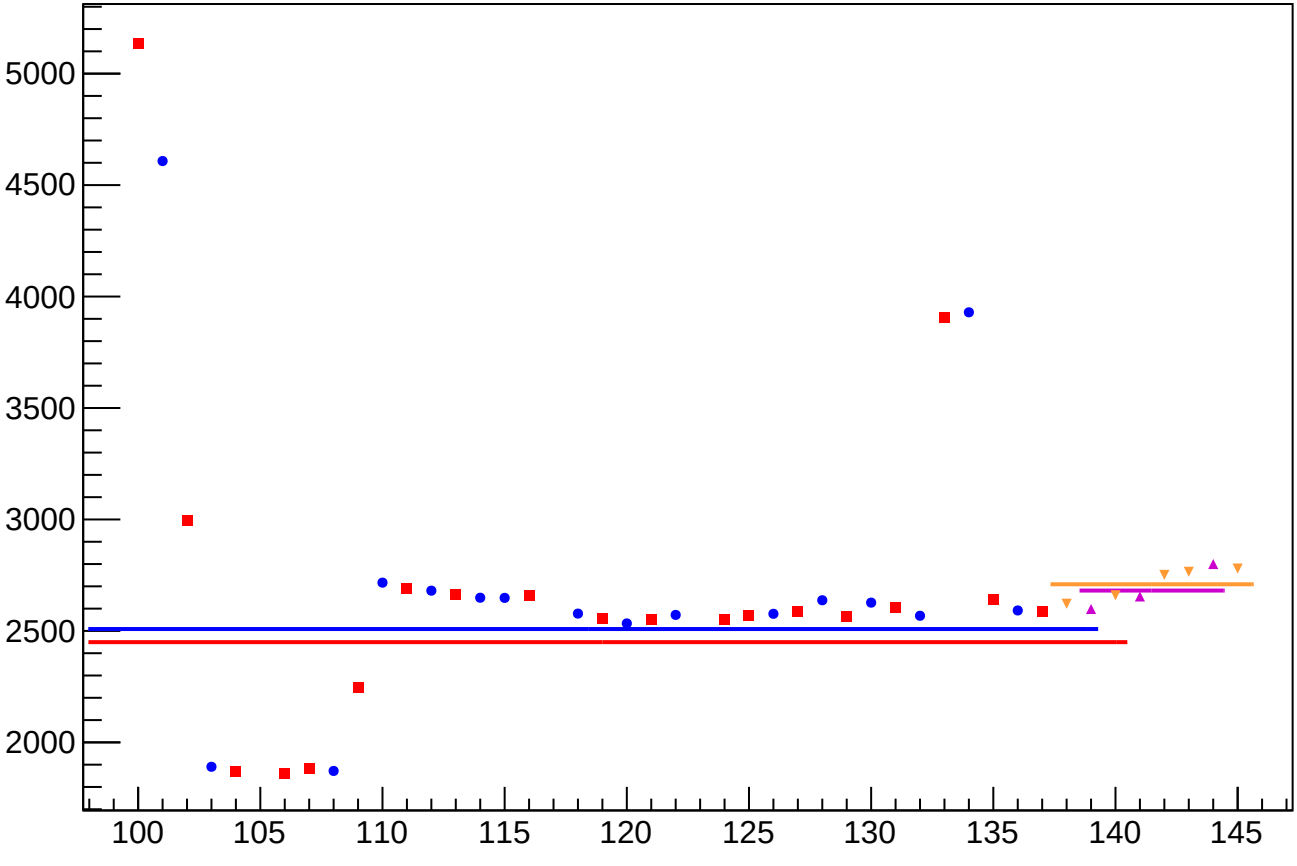
Right: 3197.075+/-662.328 $\chi^2$/NDF: 26.2/34

In: 4339.862+/-824.990 $\chi^2$/NDF:10.5/18

Out: 1476.233+/-771.805 $\chi^2$/NDF:23.3/23

All: 2812.772+/-563.613 $\chi^2$/NDF: 40.2/42

# reg_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.466+/-0.673 $\chi^2$/NDF: 611589.6/15

Left Out: 2709.263+/-0.997 $\chi^2$/NDF:4233.2/4

Right Out: 2449.623+/-0.652 $\chi^2$/NDF: 436901.0/18

Left In: 2681.073+/-1.169 $\chi^2$/NDF:5141.3/2

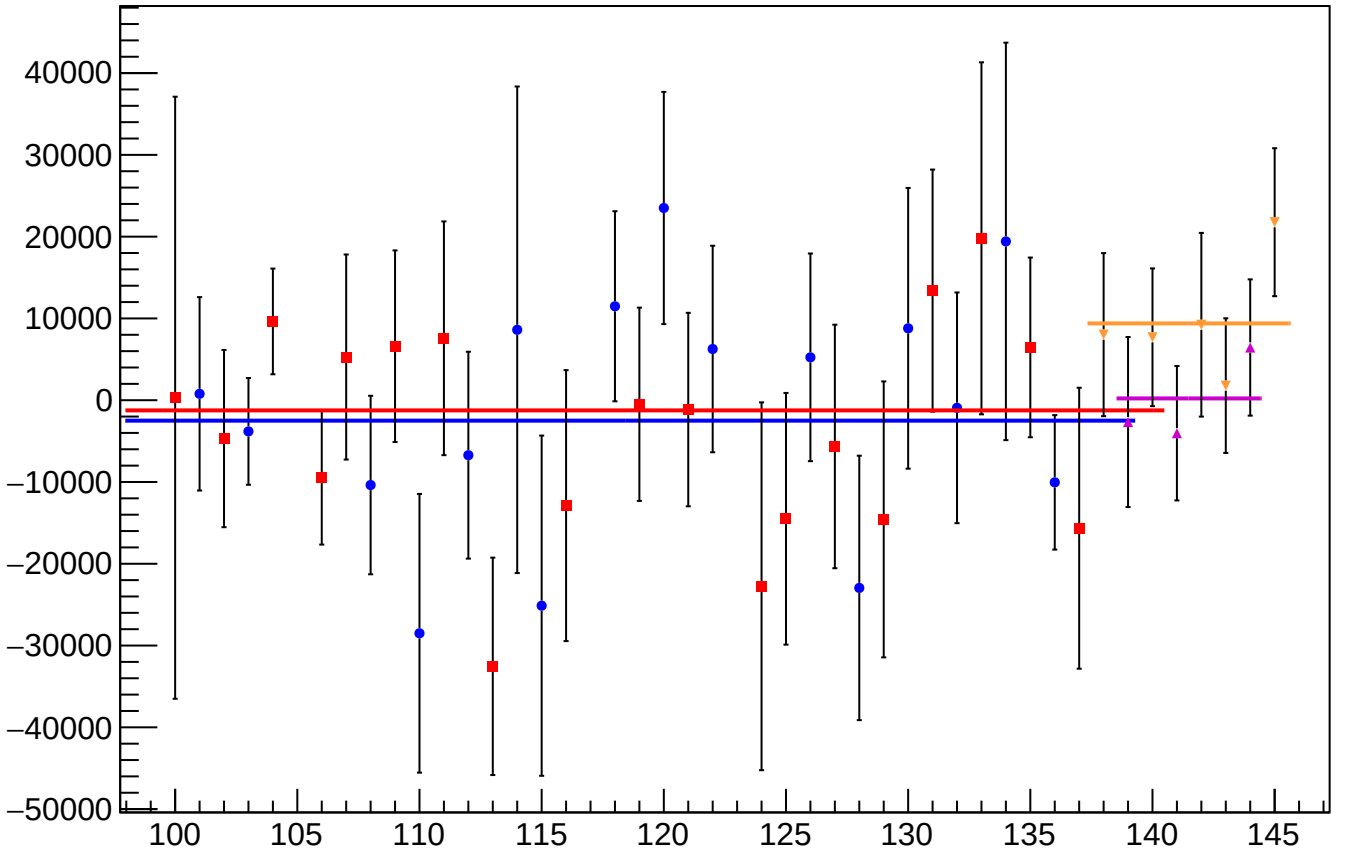
Left: 2697.389+/-0.759 $\chi^2$/NDF: 9711.0/7

Right: 2478.107+/-0.468 $\chi^2$/NDF: 1052433.3/34

In: 2551.438+/-0.583 $\chi^2$/NDF:633100.5/18

Out: 2527.365+/-0.546 $\chi^2$/NDF:488613.2/23

All: 2538.601+/-0.399 $\chi^2$/NDF: 1122621.8/42




Right In: -2500.602+/-3075.580 $\chi^2$/NDF: 13.8/15

Left Out: 9390.147+/-4115.004 $\chi^2$/NDF:2.8/4

Right Out: -1244.352+/-2852.739 $\chi^2$/NDF: 16.6/18

Left In: 218.239+/-5099.520 $\chi^2$/NDF:0.9/2

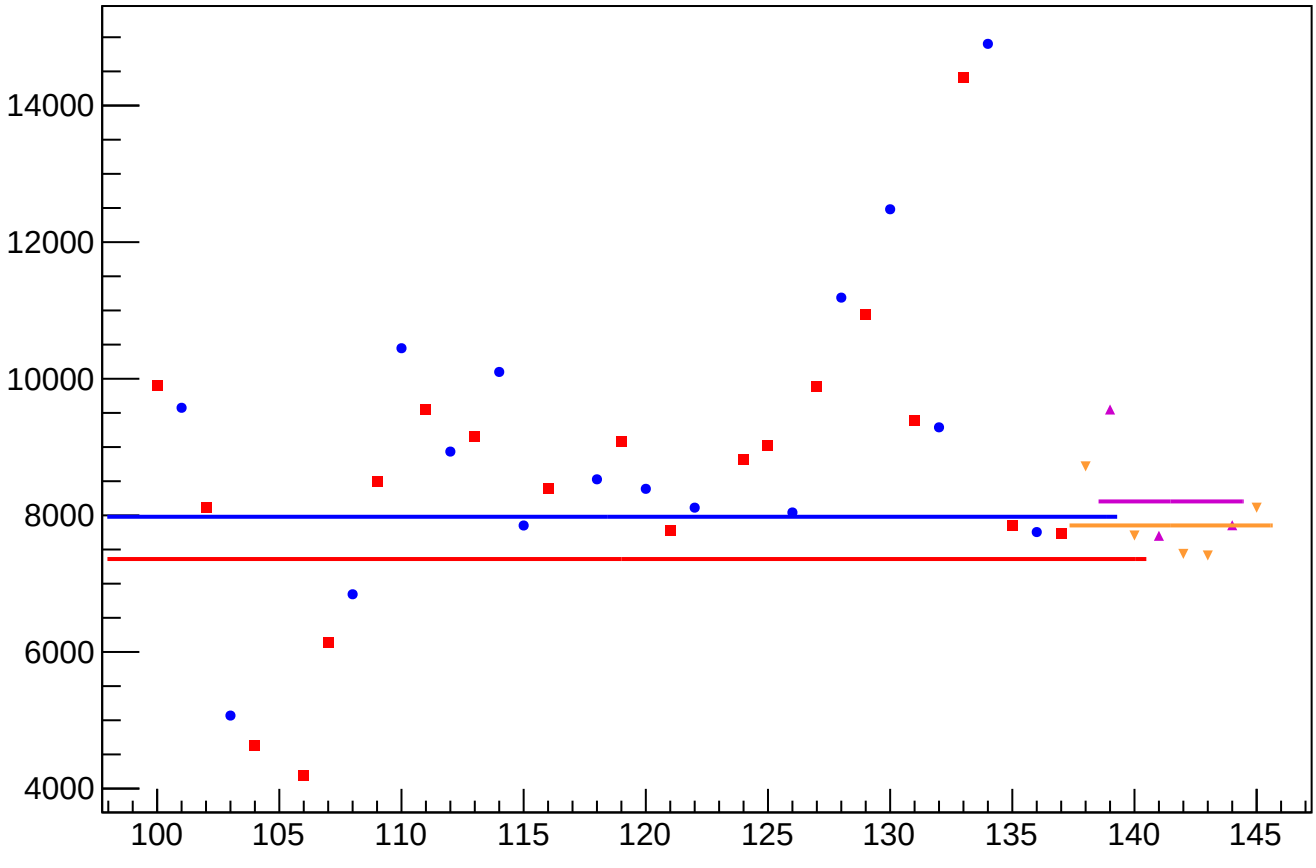
Left: 5773.096+/-3202.409 $\chi^2$/NDF: 5.6/7

Right: -1825.322+/-2091.539 $\chi^2$/NDF: 30.4/34

In: -1775.421+/-2633.666 $\chi^2$/NDF:14.9/18

Out: 2207.585+/-2344.462 $\chi^2$/NDF:23.9/23

All: 446.696+/-1751.141 $\chi^2$/NDF: 40.0/42




Right In: 7979.488+/-2.175 $\chi^2$/NDF: 923083.9/15

Left Out: 7852.448+/-2.910 $\chi^2$/NDF:25762.2/4

Right Out: 7360.741+/-2.017 $\chi^2$/NDF: 1286008.5/18

Left In: 8203.943+/-3.606 $\chi^2$/NDF:44516.3/2

Left: 7991.064+/-2.264 $\chi^2$/NDF: 76033.2/7

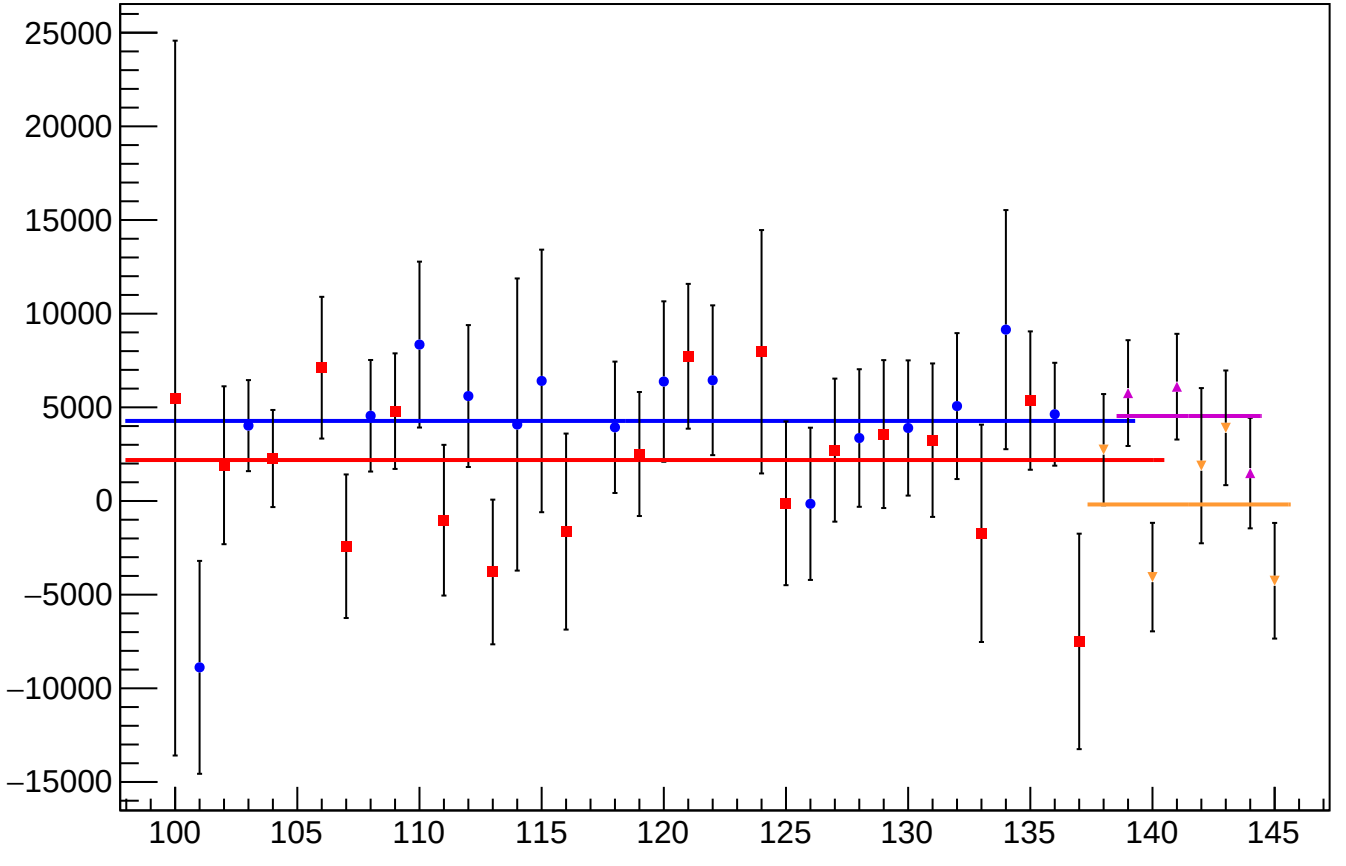
Right: 7646.889+/-1.479 $\chi^2$/NDF: 2252604.4/34

In: 8039.356+/-1.862 $\chi^2$/NDF:970441.3/18

Out: 7520.348+/-1.658 $\chi^2$/NDF:1331057.7/23

All: 7749.802+/-1.238 $\chi^2$/NDF: 2344831.3/42

# cor_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4273.903+/-951.956 $\chi^2$/NDF: 8.9/15

Left Out: -185.088+/-1410.470 $\chi^2$/NDF:6.5/4

Right Out: 2186.887+/-922.111 $\chi^2$/NDF: 14.8/18

Left In: 4537.671+/-1653.428 $\chi^2$/NDF:1.6/2

Left: 1804.132+/-1073.071 $\chi^2$/NDF: 12.8/7

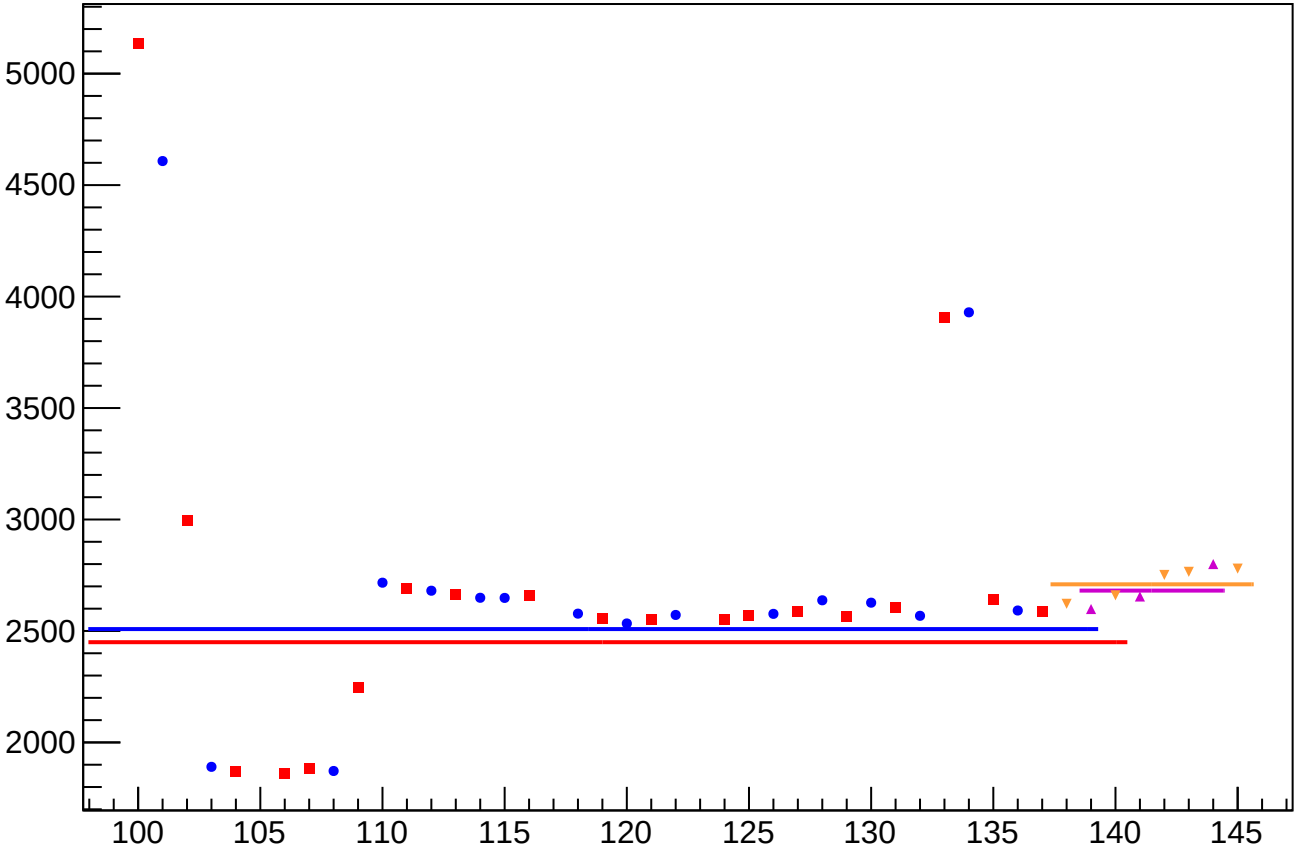
Right: 3197.167+/-662.331 $\chi^2$/NDF: 26.2/34

In: 4339.570+/-824.990 $\chi^2$/NDF:10.5/18

Out: 1476.652+/-771.809 $\chi^2$/NDF:23.3/23

All: 2812.867+/-563.615 $\chi^2$/NDF: 40.2/42

# cor_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.467+/-0.673 $\chi^2$/NDF: 611587.4/15

Left Out: 2709.263+/-0.997 $\chi^2$/NDF:4233.2/4

Right Out: 2449.647+/-0.652 $\chi^2$/NDF: 436846.6/18

Left In: 2681.073+/-1.169 $\chi^2$/NDF:5141.3/2

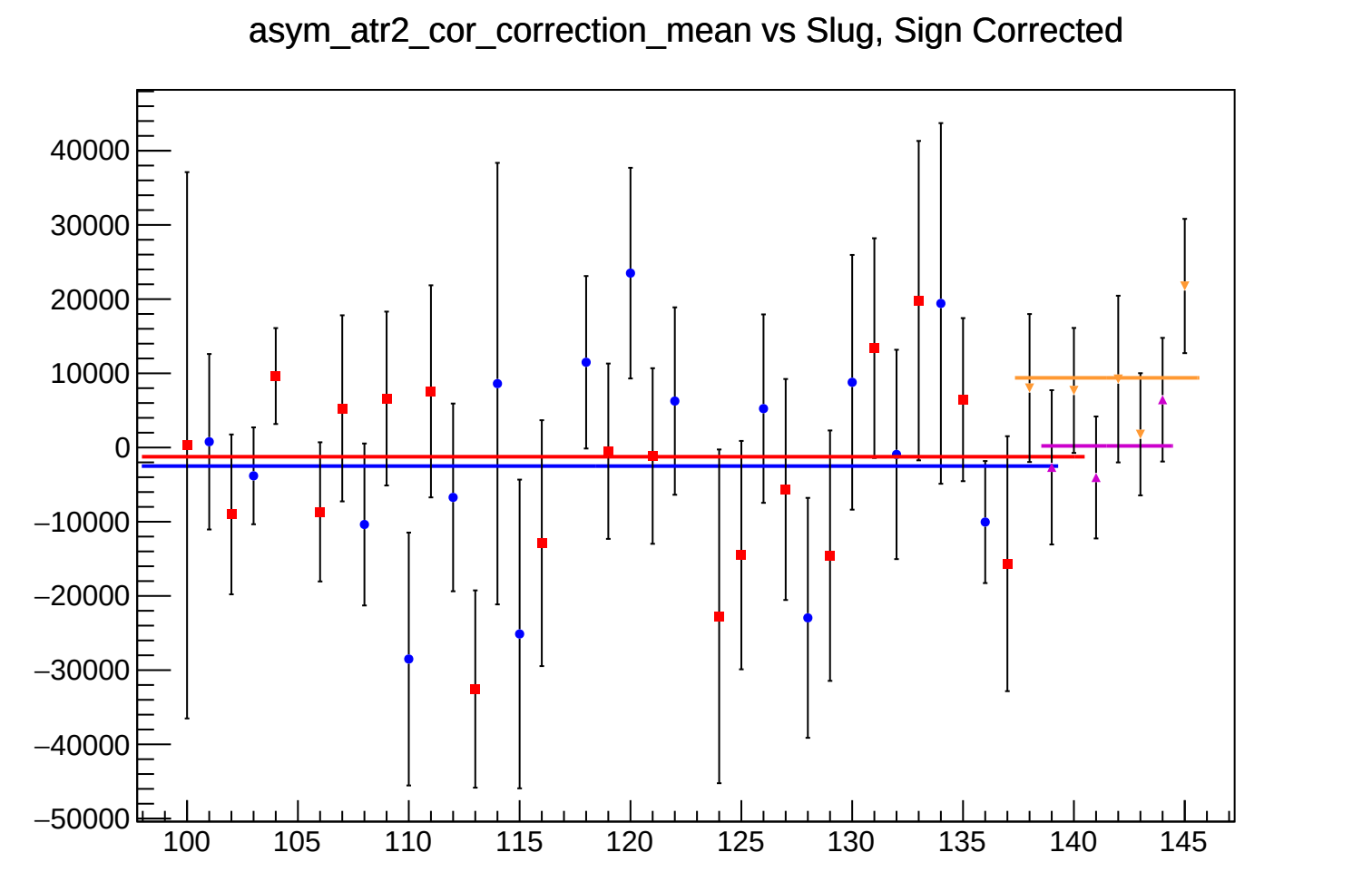
Left: 2697.389+/-0.759 $\chi^2$/NDF: 9711.0/7

Right: 2478.121+/-0.468 $\chi^2$/NDF: 1052373.5/34

In: 2551.439+/-0.583 $\chi^2$/NDF:633098.1/18

Out: 2527.383+/-0.546 $\chi^2$/NDF:488549.7/23

All: 2538.611+/-0.399 $\chi^2$/NDF: 1122554.6/42




Right In: -2500.380+/-3075.668 $\chi^2$/NDF: 13.8/15

Left Out: 9389.967+/-4114.988 $\chi^2$/NDF:2.8/4

Right Out: -1239.896+/-2893.464 $\chi^2$/NDF: 16.6/18

Left In: 218.454+/-5099.513 $\chi^2$/NDF:0.9/2

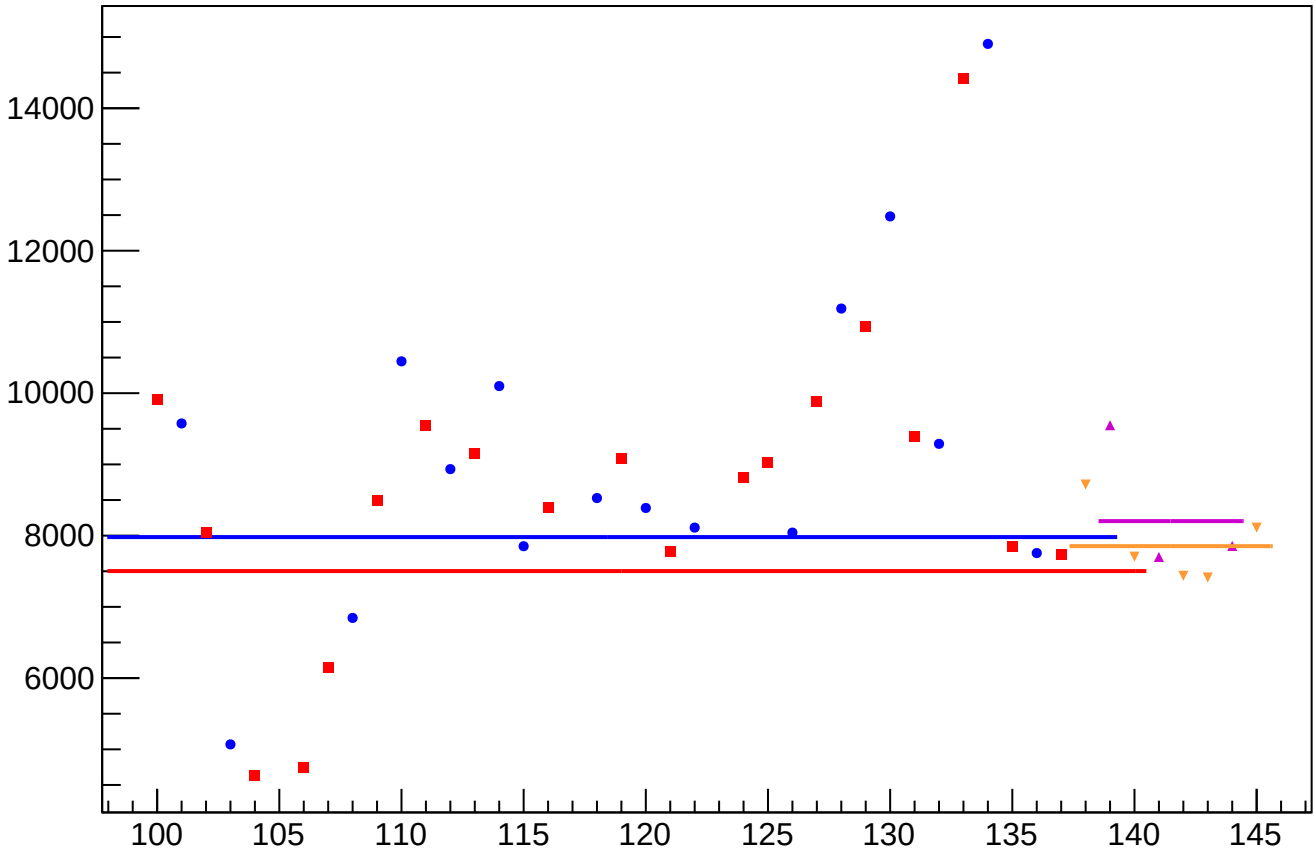
Left: 5773.081+/-3202.400 $\chi^2$/NDF: 5.6/7

Right: -1831.698+/-2107.459 $\chi^2$/NDF: 30.5/34

In: -1775.168+/-2633.720 $\chi^2$/NDF:14.9/18

Out: 2276.947+/-2366.908 $\chi^2$/NDF:23.9/23

All: 466.479+/-1760.452 $\chi^2$/NDF: 40.1/42




Right In: 7979.812+/-2.175 $\chi^2$/NDF: 922785.4/15

Left Out: 7852.417+/-2.910 $\chi^2$/NDF:25763.7/4

Right Out: 7502.685+/-2.046 $\chi^2$/NDF: 1135523.5/18

Left In: 8203.930+/-3.606 $\chi^2$/NDF:44517.1/2

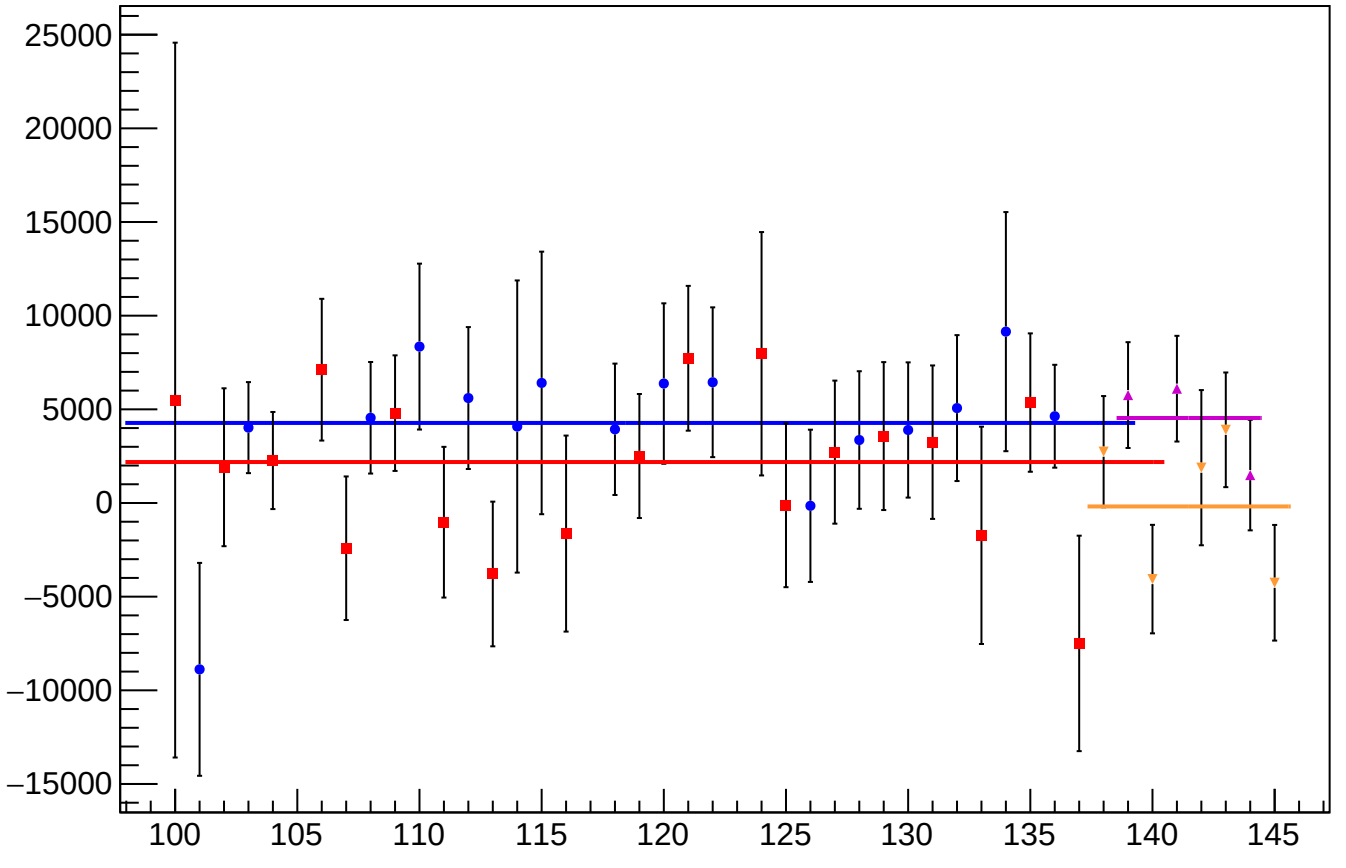
Left: 7991.040+/-2.264 $\chi^2$/NDF: 76036.1/7

Right: 7726.698+/-1.490 $\chi^2$/NDF: 2083841.8/34

In: 8039.592+/-1.862 $\chi^2$/NDF:970135.1/18

Out: 7618.392+/-1.674 $\chi^2$/NDF:1170954.2/23

All: 7806.583+/-1.245 $\chi^2$/NDF: 2169387.0/42




Right In: 4273.903+/-951.956 $\chi^2$/NDF: 8.9/15

Left Out: -185.088+/-1410.470 $\chi^2$/NDF:6.5/4

Right Out: 2186.887+/-922.111 $\chi^2$/NDF: 14.8/18

Left In: 4537.671+/-1653.428 $\chi^2$/NDF:1.6/2

Left: 1804.132+/-1073.071 $\chi^2$/NDF: 12.8/7

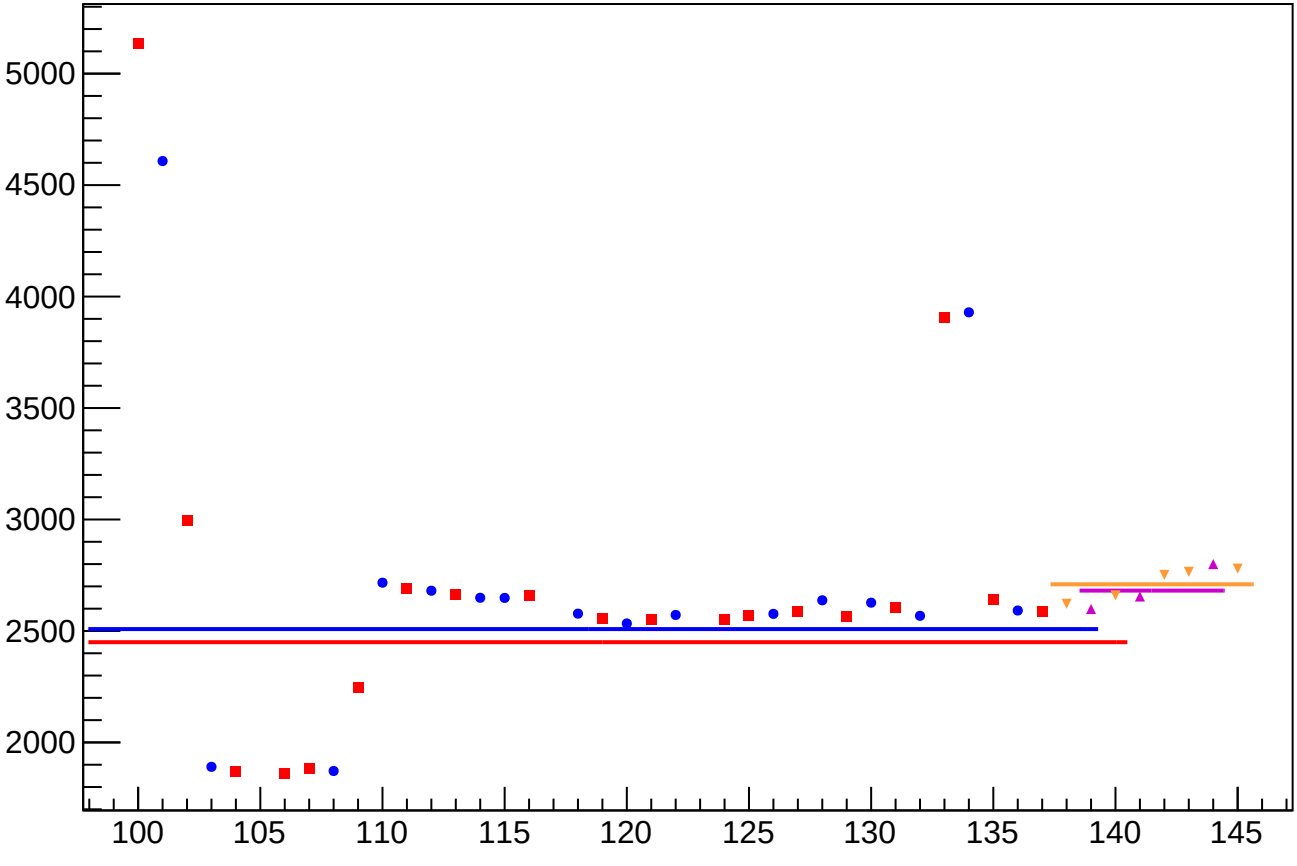
Right: 3197.167+/-662.331 $\chi^2$/NDF: 26.2/34

In: 4339.570+/-824.990 $\chi^2$/NDF:10.5/18

Out: 1476.652+/-771.809 $\chi^2$/NDF:23.3/23

All: 2812.867+/-563.615 $\chi^2$/NDF: 40.2/42

# eigen_cor_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2508.467+/-0.673 $\chi^2$/NDF: 611587.4/15

Left Out: 2709.263+/-0.997 $\chi^2$/NDF:4233.2/4

Right Out: 2449.647+/-0.652 $\chi^2$/NDF: 436846.6/18

Left In: 2681.073+/-1.169 $\chi^2$/NDF:5141.3/2

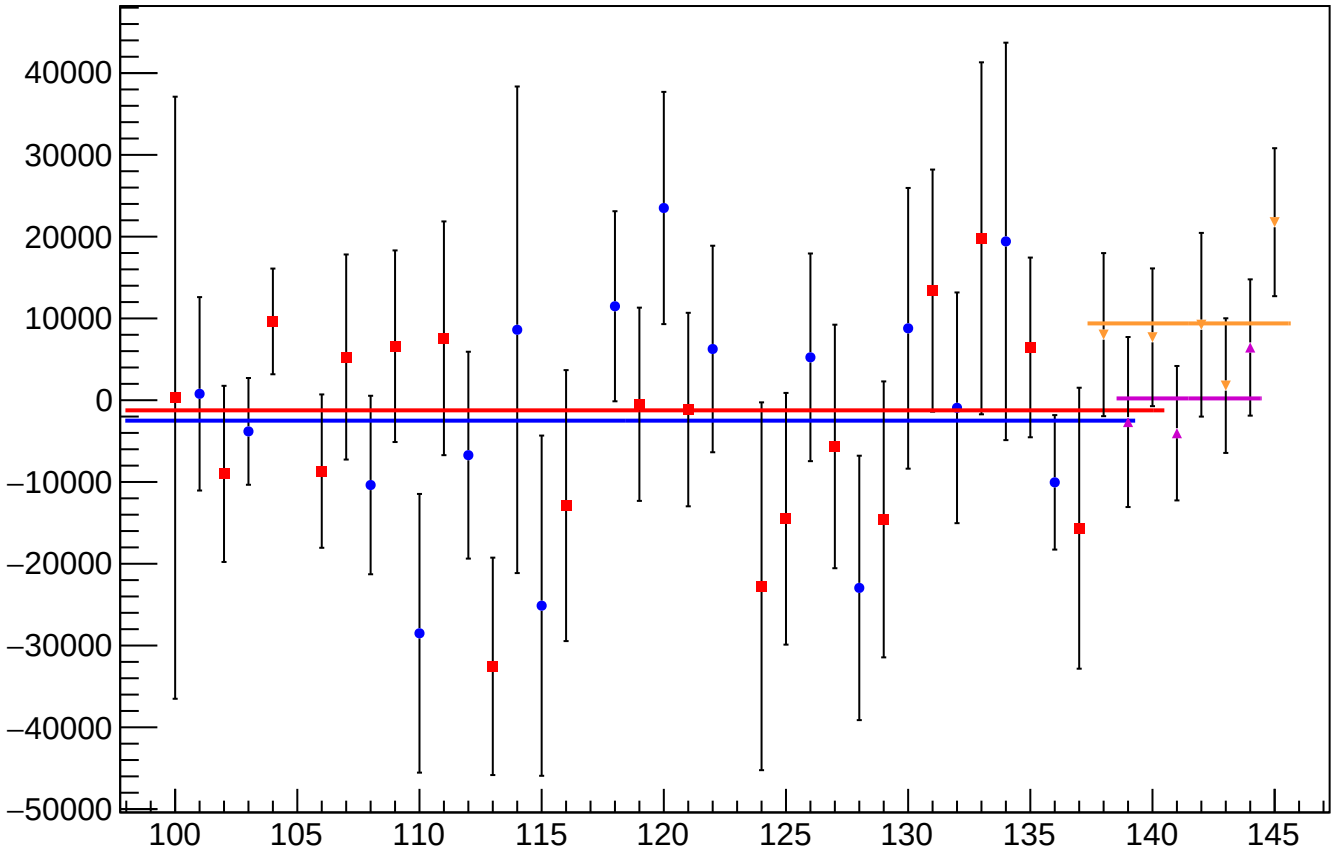
Left: 2697.389+/-0.759 $\chi^2$/NDF: 9711.0/7

Right: 2478.121+/-0.468 $\chi^2$/NDF: 1052373.5/34

In: 2551.439+/-0.583 $\chi^2$/NDF:633098.1/18

Out: 2527.383+/-0.546 $\chi^2$/NDF:488549.7/23

All: 2538.611+/-0.399 $\chi^2$/NDF: 1122554.6/42




Right In: -2500.380+/-3075.668 $\chi^2$/NDF: 13.8/15

Left Out: 9389.967+/-4114.988 $\chi^2$/NDF:2.8/4

Right Out: -1239.896+/-2893.464 $\chi^2$/NDF: 16.6/18

Left In: 218.454+/-5099.513 $\chi^2$/NDF:0.9/2

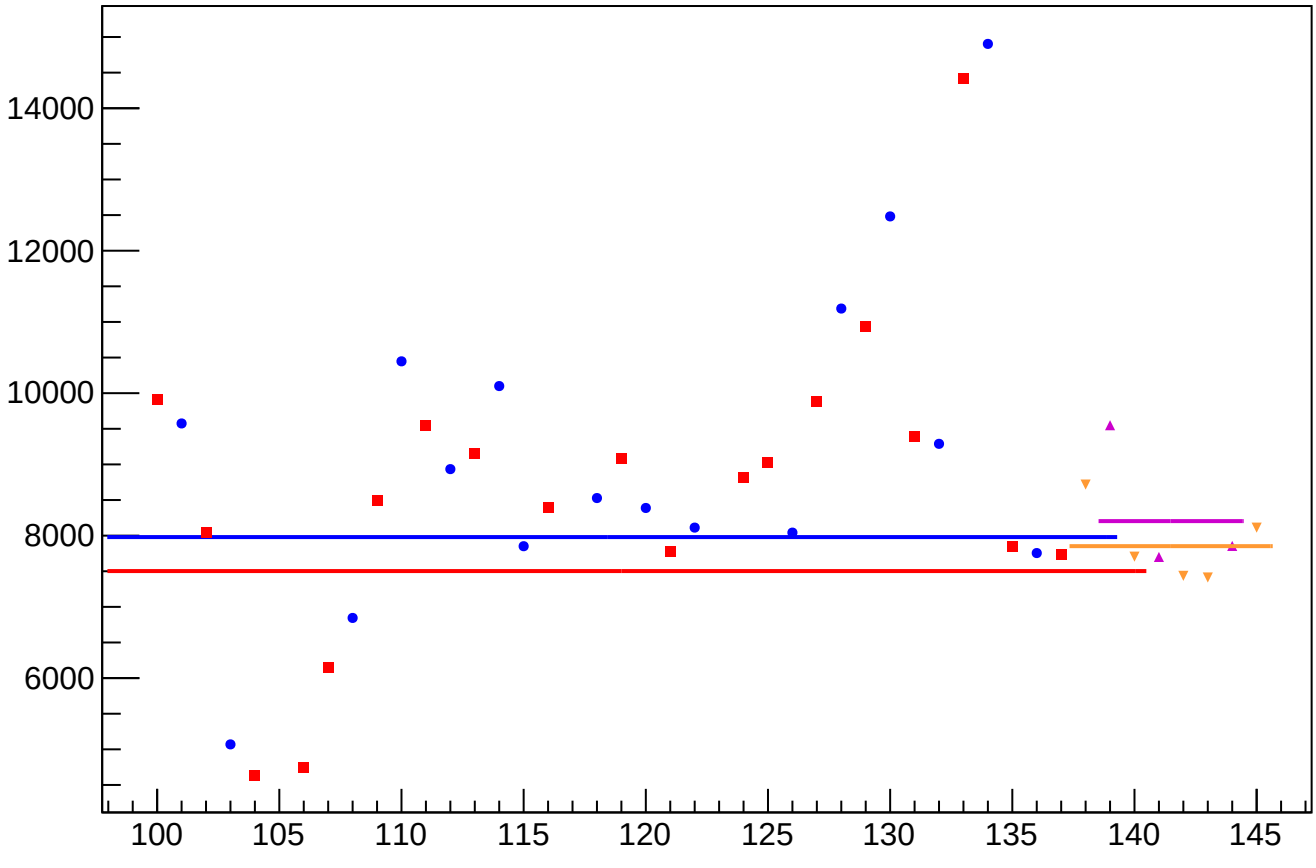
Left: 5773.081+/-3202.400 $\chi^2$/NDF: 5.6/7

Right: -1831.698+/-2107.459 $\chi^2$/NDF: 30.5/34

In: -1775.168+/-2633.720 $\chi^2$/NDF:14.9/18

Out: 2276.947+/-2366.908 $\chi^2$/NDF:23.9/23

All: 466.479+/-1760.452 $\chi^2$/NDF: 40.1/42




Right In: 7979.812+/-2.175 $\chi^2$/NDF: 922785.4/15

Left Out: 7852.417+/-2.910 $\chi^2$/NDF:25763.7/4

Right Out: 7502.685+/-2.046 $\chi^2$/NDF: 1135523.5/18

Left In: 8203.930+/-3.606 $\chi^2$/NDF:44517.1/2

Left: 7991.040+/-2.264 $\chi^2$/NDF: 76036.1/7

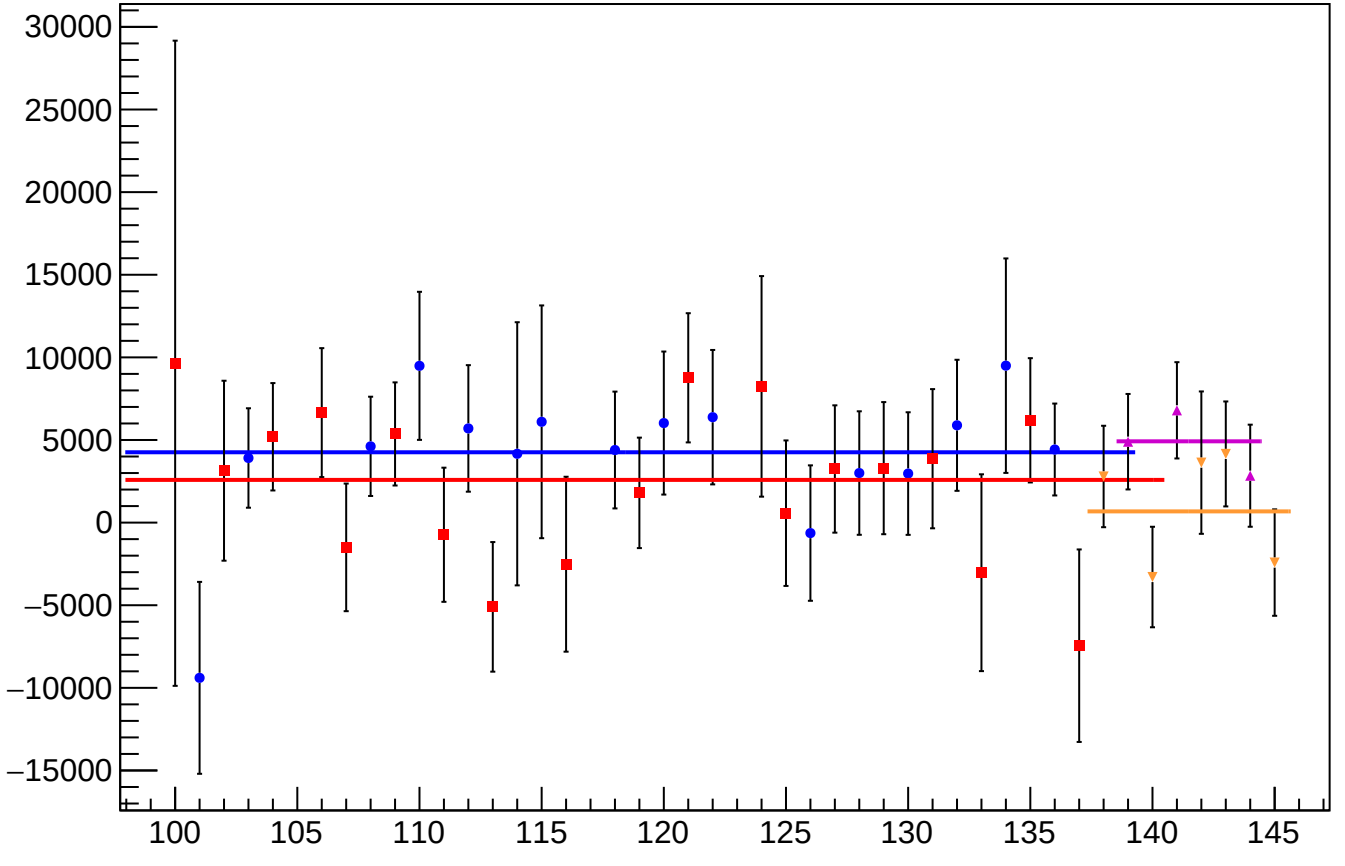
Right: 7726.698+/-1.490 $\chi^2$/NDF: 2083841.8/34

In: 8039.592+/-1.862 $\chi^2$/NDF:970135.1/18

Out: 7618.392+/-1.674 $\chi^2$/NDF:1170954.2/23

All: 7806.583+/-1.245 $\chi^2$/NDF: 2169387.0/42

# dit_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4256.977+/-990.542 $\chi^2$/NDF: 10.1/15

Left Out: 679.033+/-1468.677 $\chi^2$/NDF:4.8/4

Right Out: 2584.689+/-966.049 $\chi^2$/NDF: 17.6/18

Left In: 4919.792+/-1709.084 $\chi^2$/NDF:0.9/2

Left: 2480.412+/-1113.895 $\chi^2$/NDF: 9.2/7

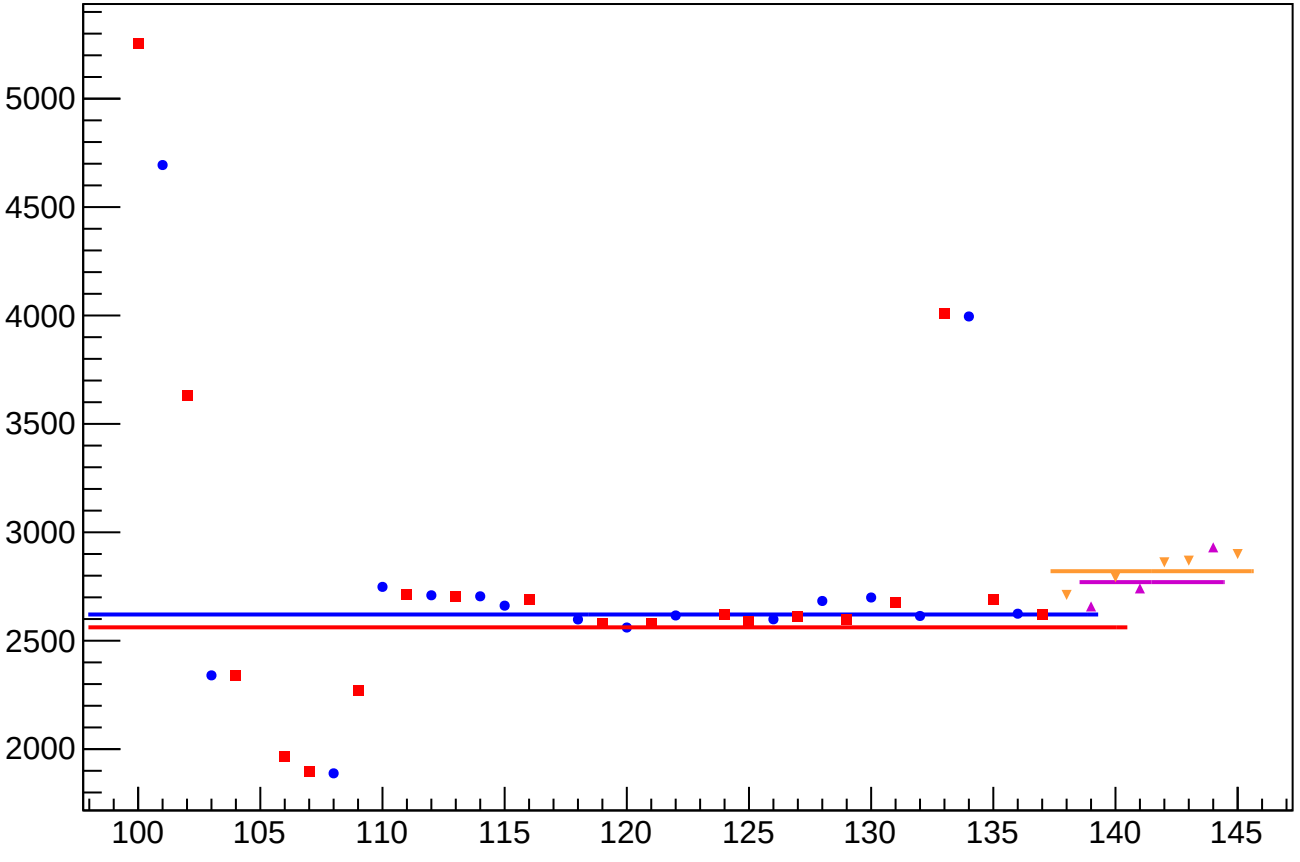
Right: 3399.902+/-691.597 $\chi^2$/NDF: 29.1/34

In: 4423.638+/-857.008 $\chi^2$/NDF:11.0/18

Out: 2009.187+/-807.101 $\chi^2$/NDF:23.6/23

All: 3144.067+/-587.558 $\chi^2$/NDF: 38.8/42

# dit_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2620.964+/-0.700 $\chi^2$/NDF: 485914.1/15

Left Out: 2820.621+/-1.039 $\chi^2$/NDF:4561.2/4

Right Out: 2561.718+/-0.683 $\chi^2$/NDF: 378259.5/18

Left In: 2770.233+/-1.209 $\chi^2$/NDF:8599.3/2

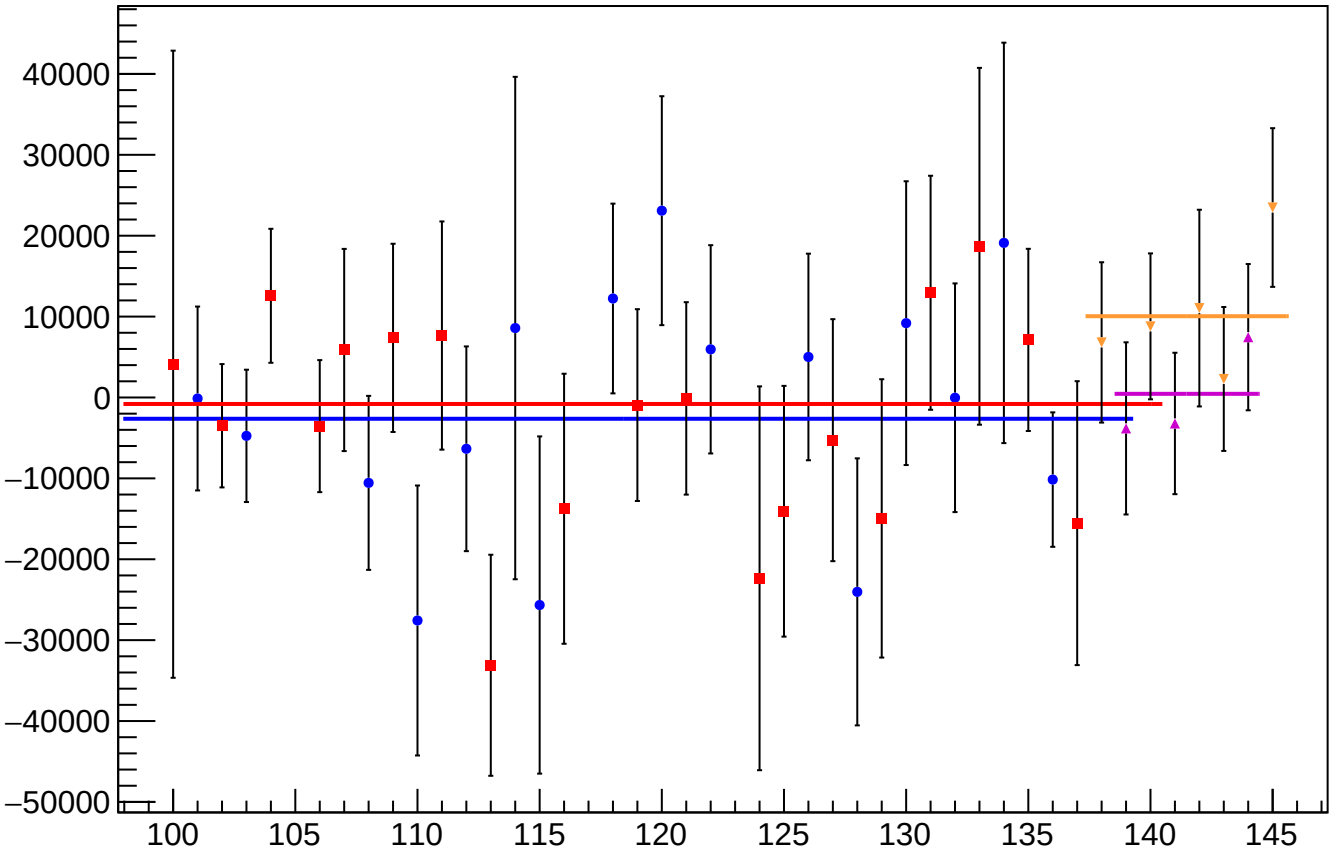
Left: 2799.217+/-0.788 $\chi^2$/NDF: 14160.5/7

Right: 2590.582+/-0.489 $\chi^2$/NDF: 867842.6/34

In: 2658.497+/-0.606 $\chi^2$/NDF:505933.4/18

Out: 2639.842+/-0.570 $\chi^2$/NDF:426217.8/23

All: 2648.607+/-0.415 $\chi^2$/NDF: 932653.5/42




Right In: -2631.921+/-3211.506 $\chi^2$/NDF: 13.8/15

Left Out: 10047.044+/-4374.129 $\chi^2$/NDF:2.8/4

Right Out: -802.880+/-2872.934 $\chi^2$/NDF: 15.4/18

Left In: 452.081+/-5411.760 $\chi^2$/NDF:0.9/2

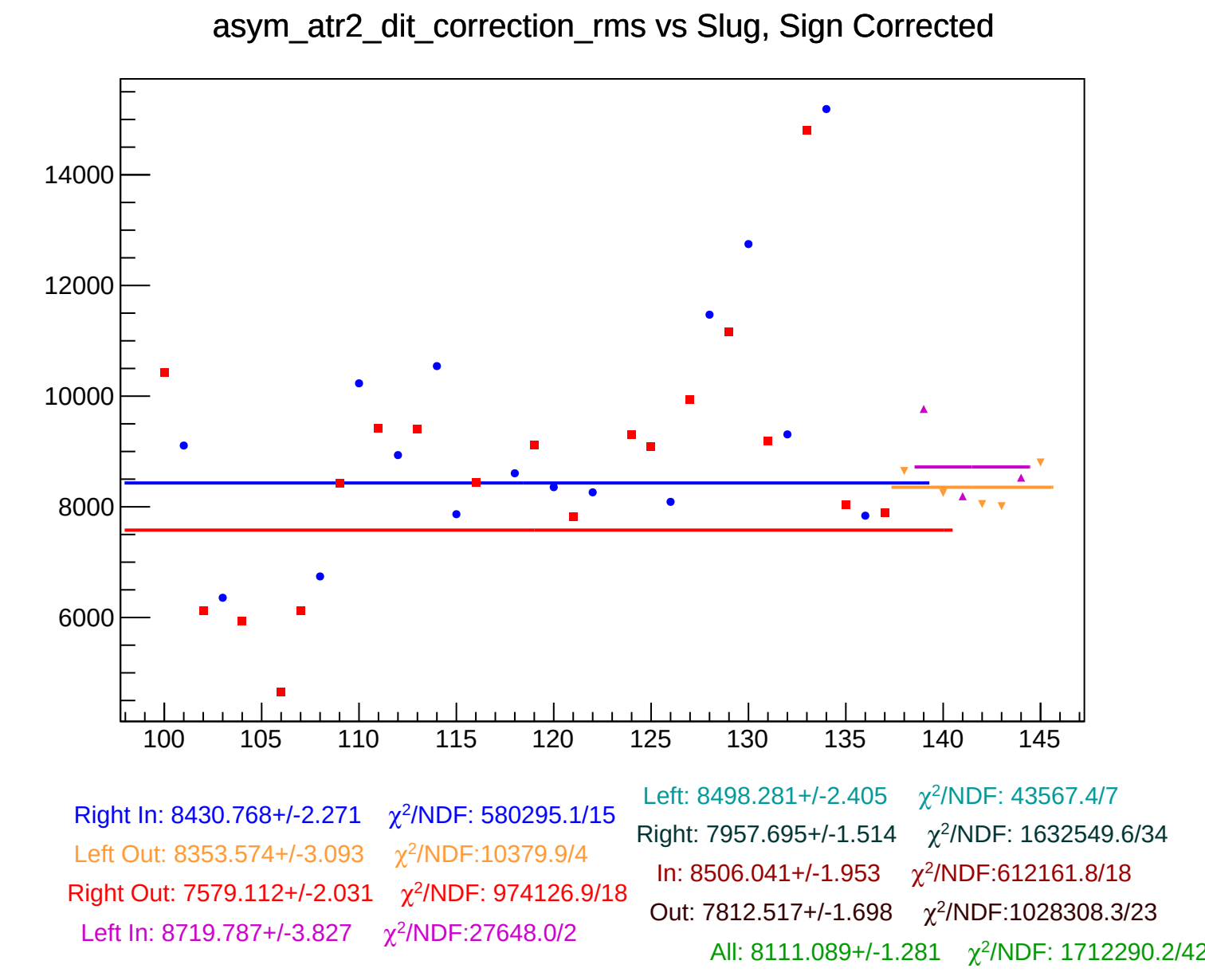
Left: 6255.638+/-3401.865 $\chi^2$/NDF: 5.6/7

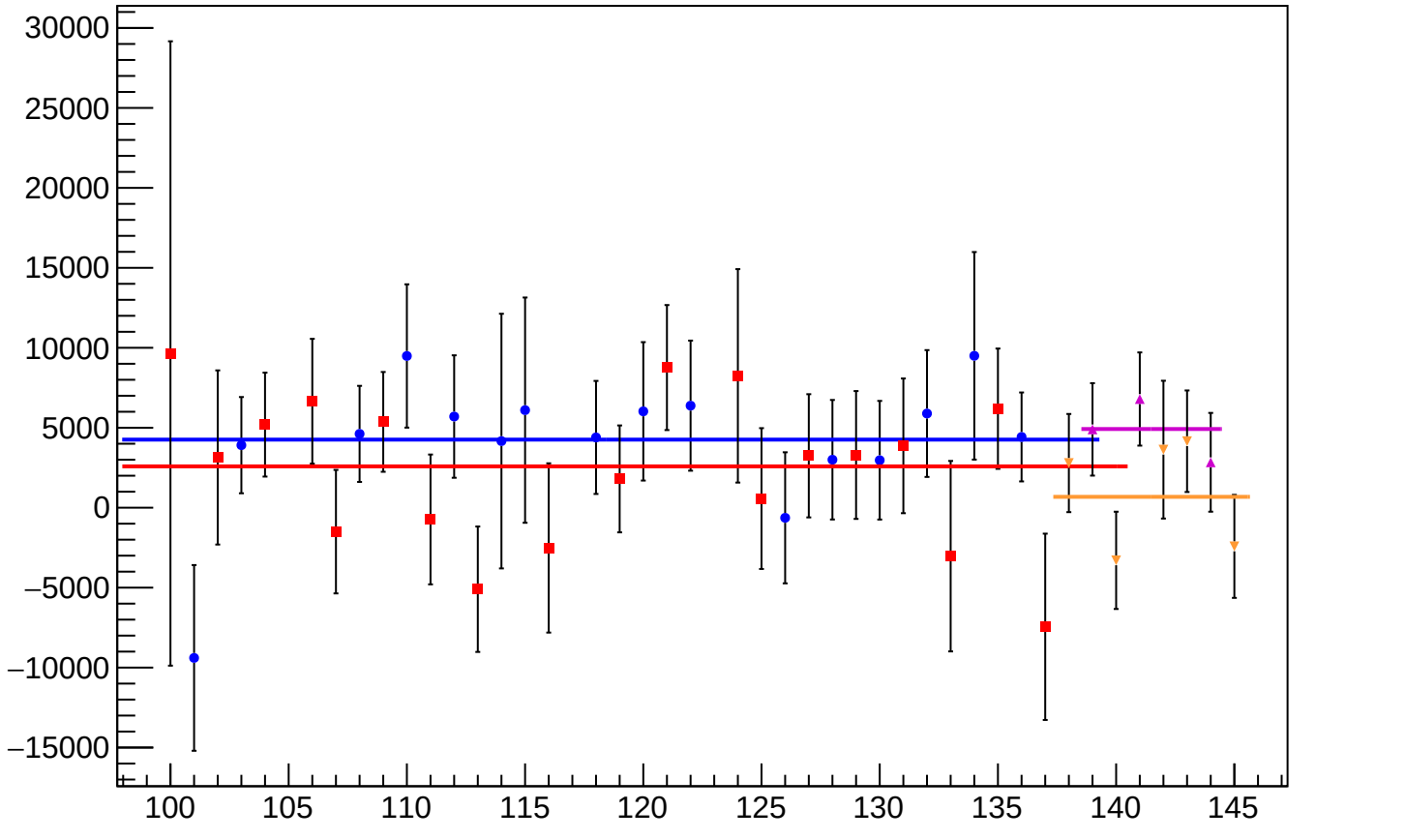
Right: -1615.936+/-2141.201 $\chi^2$/NDF: 29.4/34

In: -1828.715+/-2761.815 $\chi^2$/NDF:15.0/18

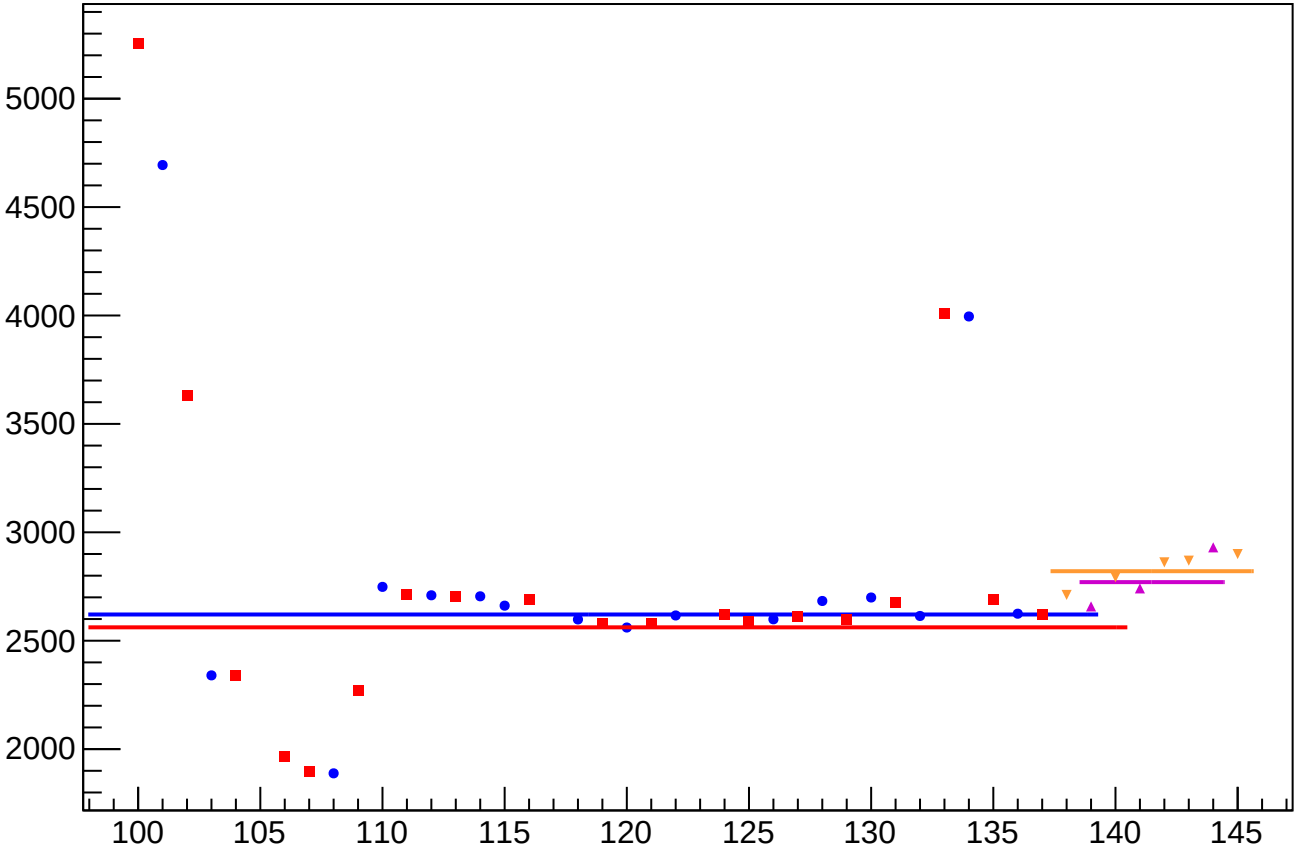
Out: 2467.043+/-2401.303 $\chi^2$/NDF:22.5/23

All: 617.658+/-1812.126 $\chi^2$/NDF: 38.8/42


asym_atr2_dit_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
105
110
115
120
125
130
135
140
145
Right In: 8430.768+/-2.271 χ²/NDF: 580295.1/15
Left Out: 8353.574+/-3.093 χ²/NDF:10379.9/4
Right Out: 7579.112+/-2.031 χ²/NDF: 974126.9/18
Left In: 8719.787+/-3.827 χ²/NDF:27648.0/2
Left: 8498.281+/-2.405 χ²/NDF: 43567.4/7
Right: 7957.695+/-1.514 χ²/NDF: 1632549.6/34
In: 8506.041+/-1.953 χ²/NDF:612161.8/18
Out: 7812.517+/-1.698 χ²/NDF:1028308.3/23
All: 8111.089+/-1.281 χ²/NDF: 1712290.2/42


eigen_dit_asym_atr2_mean vs Slug, Sign Corrected
30000
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
100
105
110
115
120
125
130
135
140
145
Right In: 4256.984+/-990.541 χ²/NDF: 10.1/15
Left Out: 679.040+/-1468.678 χ²/NDF:4.8/4
Right Out: 2584.699+/-966.048 χ²/NDF: 17.6/18
Left In: 4919.771+/-1709.085 χ²/NDF:0.9/2
Left: 2480.409+/-1113.896 χ²/NDF: 9.2/7
Right: 3399.911+/-691.596 χ²/NDF: 29.1/34
In: 4423.638+/-857.008 χ²/NDF:11.0/18
Out: 2009.197+/-807.101 χ²/NDF:23.6/23
All: 3144.073+/-587.558 χ²/NDF: 38.8/42

# eigen_dit_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2620.963+/-0.700 $\chi^2$/NDF: 485914.3/15

Left Out: 2820.623+/-1.039 $\chi^2$/NDF:4561.3/4

Right Out: 2561.718+/-0.683 $\chi^2$/NDF: 378258.9/18

Left In: 2770.234+/-1.209 $\chi^2$/NDF:8599.3/2

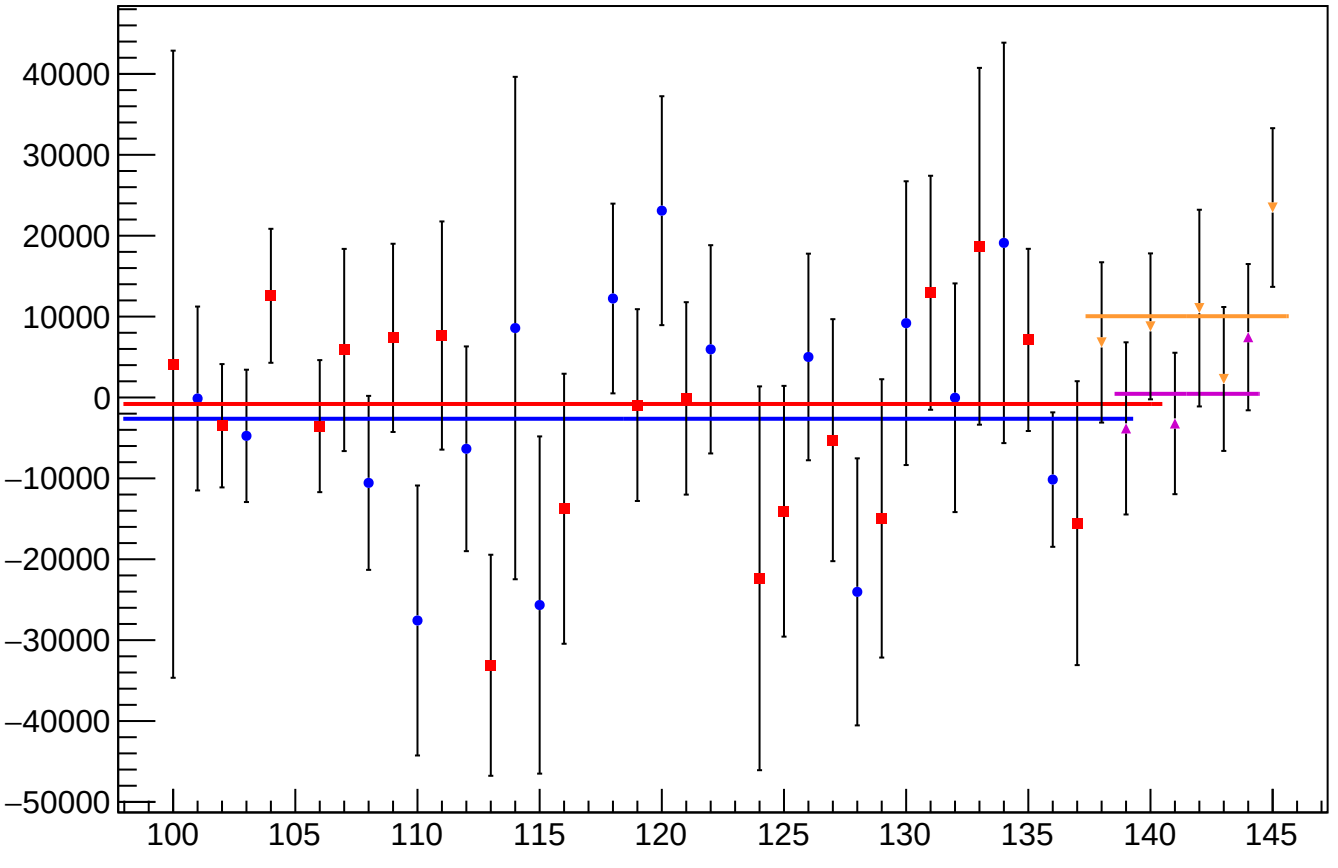
Left: 2799.219+/-0.788 $\chi^2$/NDF: 14160.6/7

Right: 2590.582+/-0.489 $\chi^2$/NDF: 867842.2/34

In: 2658.496+/-0.606 $\chi^2$/NDF:505933.9/18

Out: 2639.843+/-0.570 $\chi^2$/NDF:426218.0/23

All: 2648.607+/-0.415 $\chi^2$/NDF: 932654.3/42




Right In: -2631.887+/-3211.501 $\chi^2$/NDF: 13.8/15

Left Out: 10047.056+/-4374.135 $\chi^2$/NDF:2.8/4

Right Out: -802.875+/-2872.930 $\chi^2$/NDF: 15.4/18

Left In: 452.060+/-5411.764 $\chi^2$/NDF:0.9/2

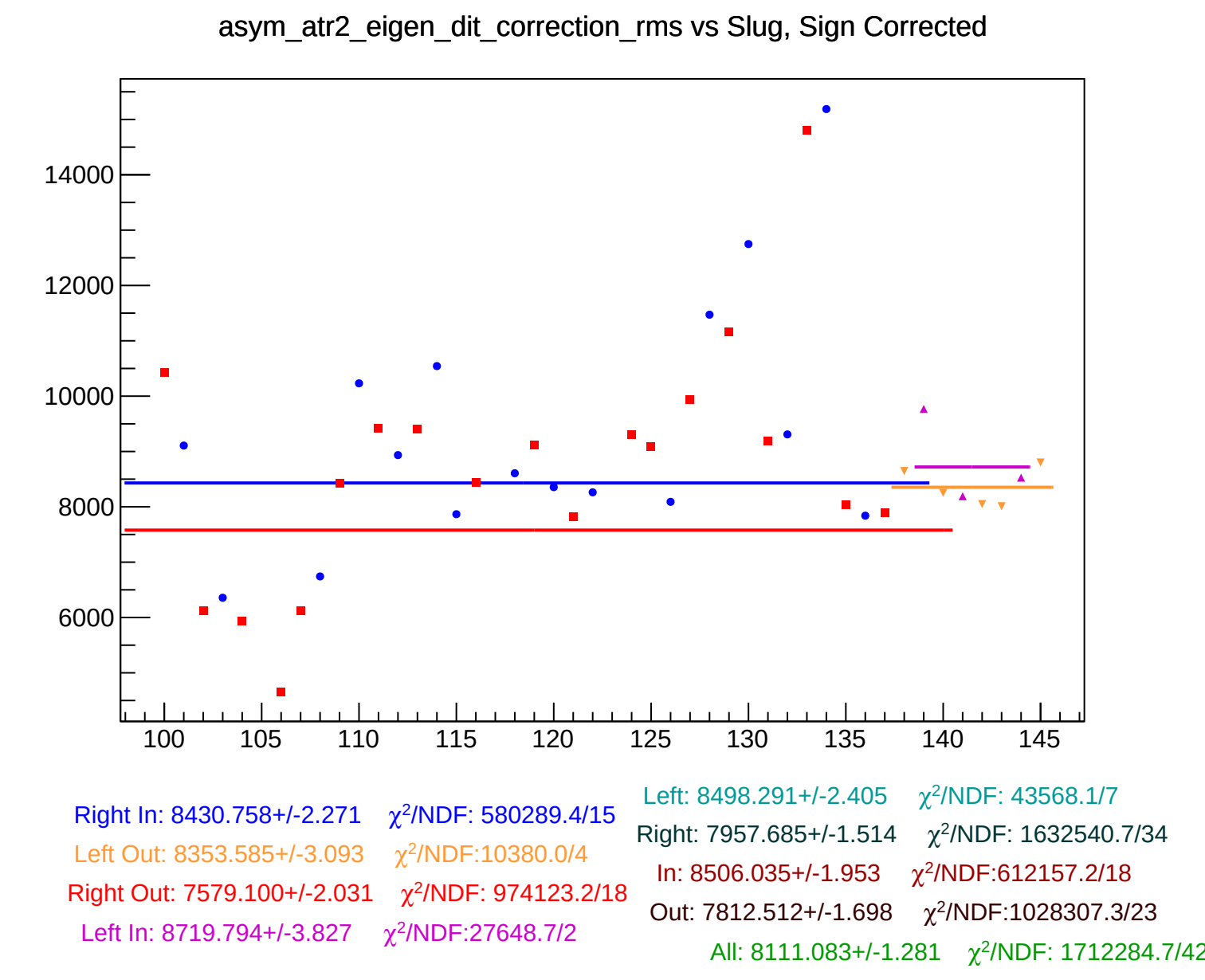
Left: 6255.634+/-3401.869 $\chi^2$/NDF: 5.6/7

Right: -1615.919+/-2141.198 $\chi^2$/NDF: 29.4/34

In: -1828.698+/-2761.813 $\chi^2$/NDF:15.0/18

Out: 2467.036+/-2401.301 $\chi^2$/NDF:22.5/23

All: 617.661+/-1812.125 $\chi^2$/NDF: 38.8/42


asym_atr2_eigen_dit_correction_rms vs Slug, Sign Corrected
14000
12000
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8000
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100
105
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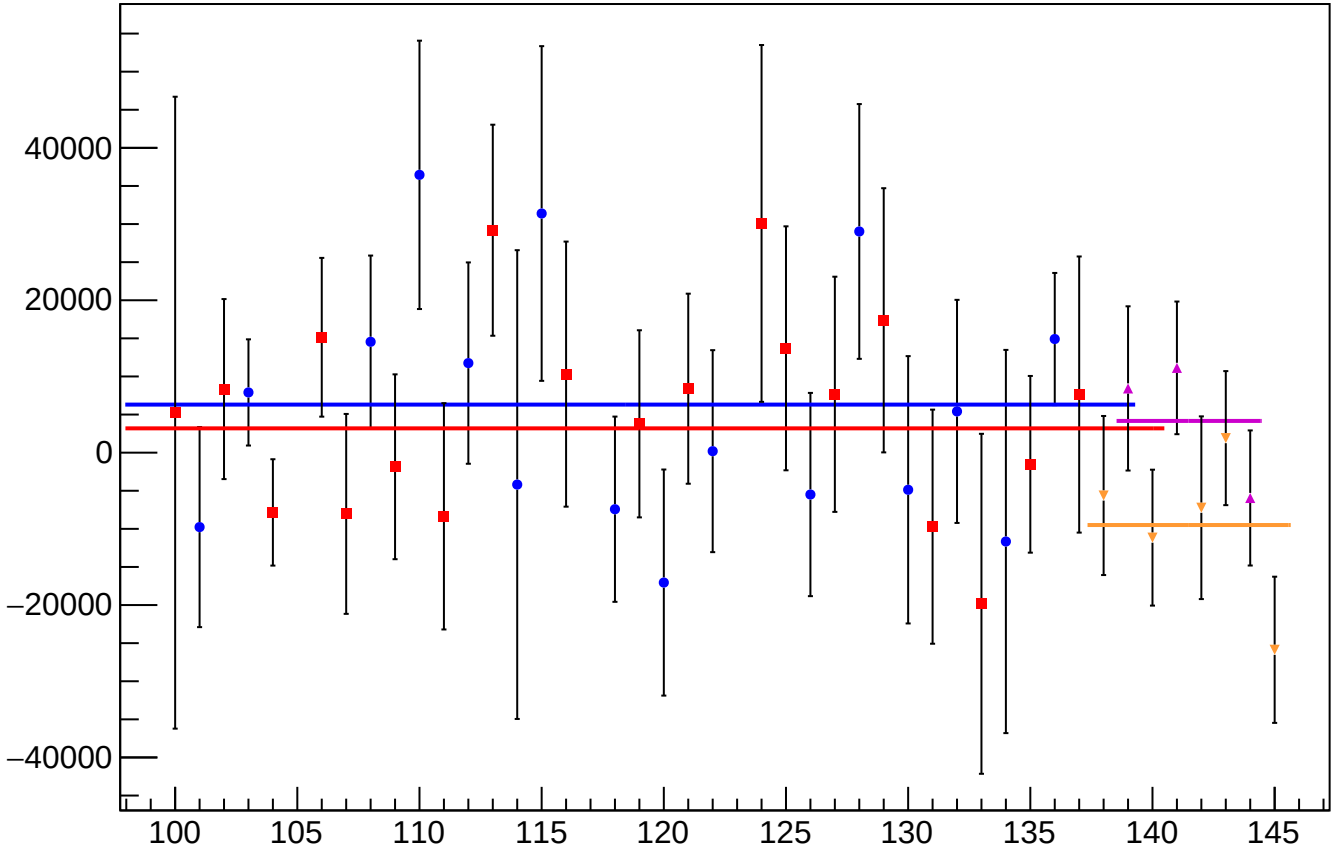
120
125
130
135
140
145
Right In: 8430.758+/-2.271 χ²/NDF: 580289.4/15
Left Out: 8353.585+/-3.093 χ²/NDF:10380.0/4
Right Out: 7579.100+/-2.031 χ²/NDF: 974123.2/18
Left In: 8719.794+/-3.827 χ²/NDF:27648.7/2
Left: 8498.291+/-2.405 χ²/NDF: 43568.1/7
Right: 7957.685+/-1.514 χ²/NDF: 1632540.7/34
In: 8506.035+/-1.953 χ²/NDF:612157.2/18
Out: 7812.512+/-1.698 χ²/NDF:1028307.3/23
All: 8111.083+/-1.281 χ²/NDF: 1712284.7/42

# asym_atr2_mean vs Slug, Sign Corrected




Right In: 6307.034+/-3239.703 $\chi^2$/NDF: 15.1/15

Left Out: -9496.878+/-4363.319 $\chi^2$/NDF:4.8/4

Right Out: 3189.356+/-3068.645 $\chi^2$/NDF: 13.9/18

Left In: 4164.363+/-5381.359 $\chi^2$/NDF:2.1/2

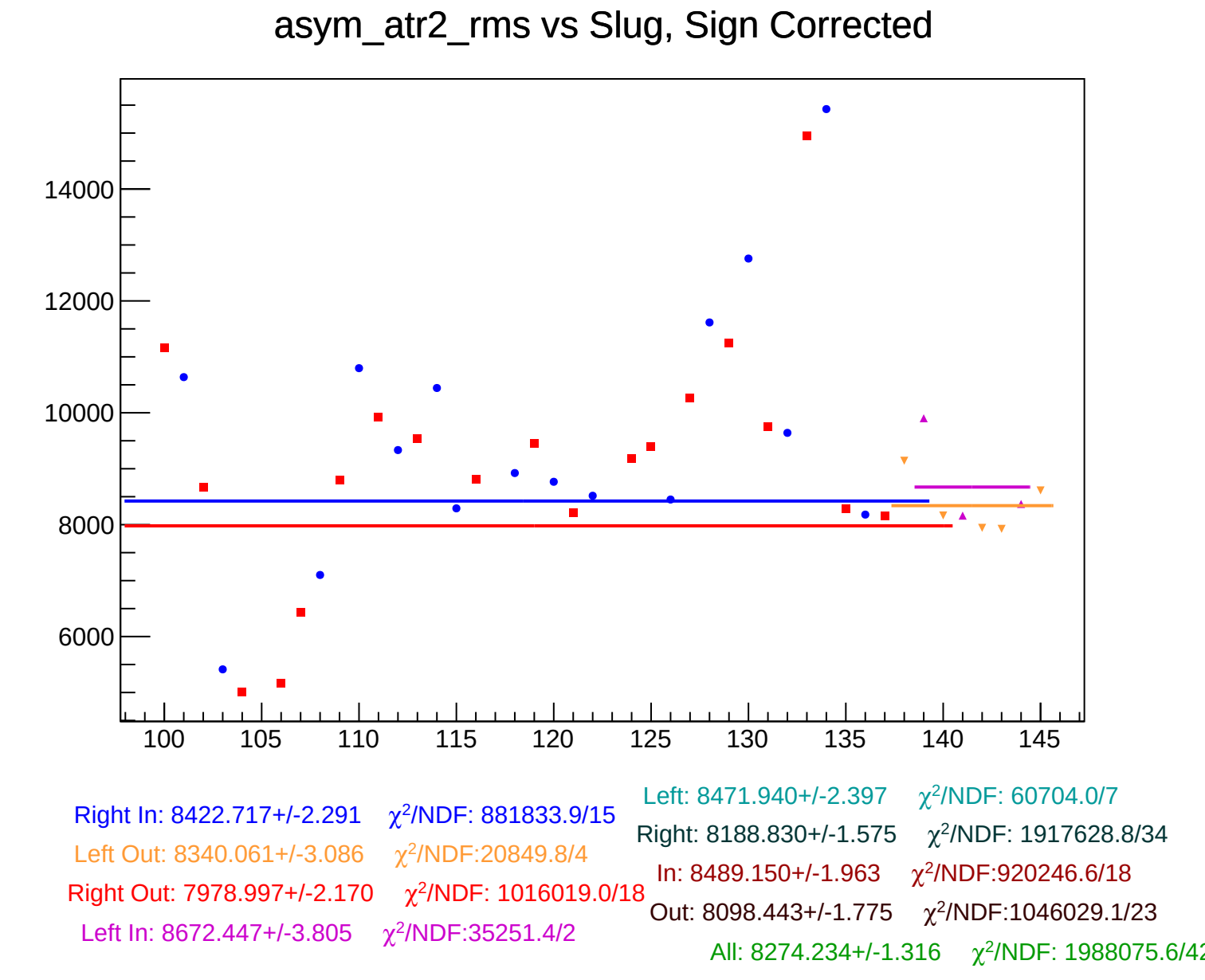
Left: -4076.558+/-3389.685 $\chi^2$/NDF: 10.8/7

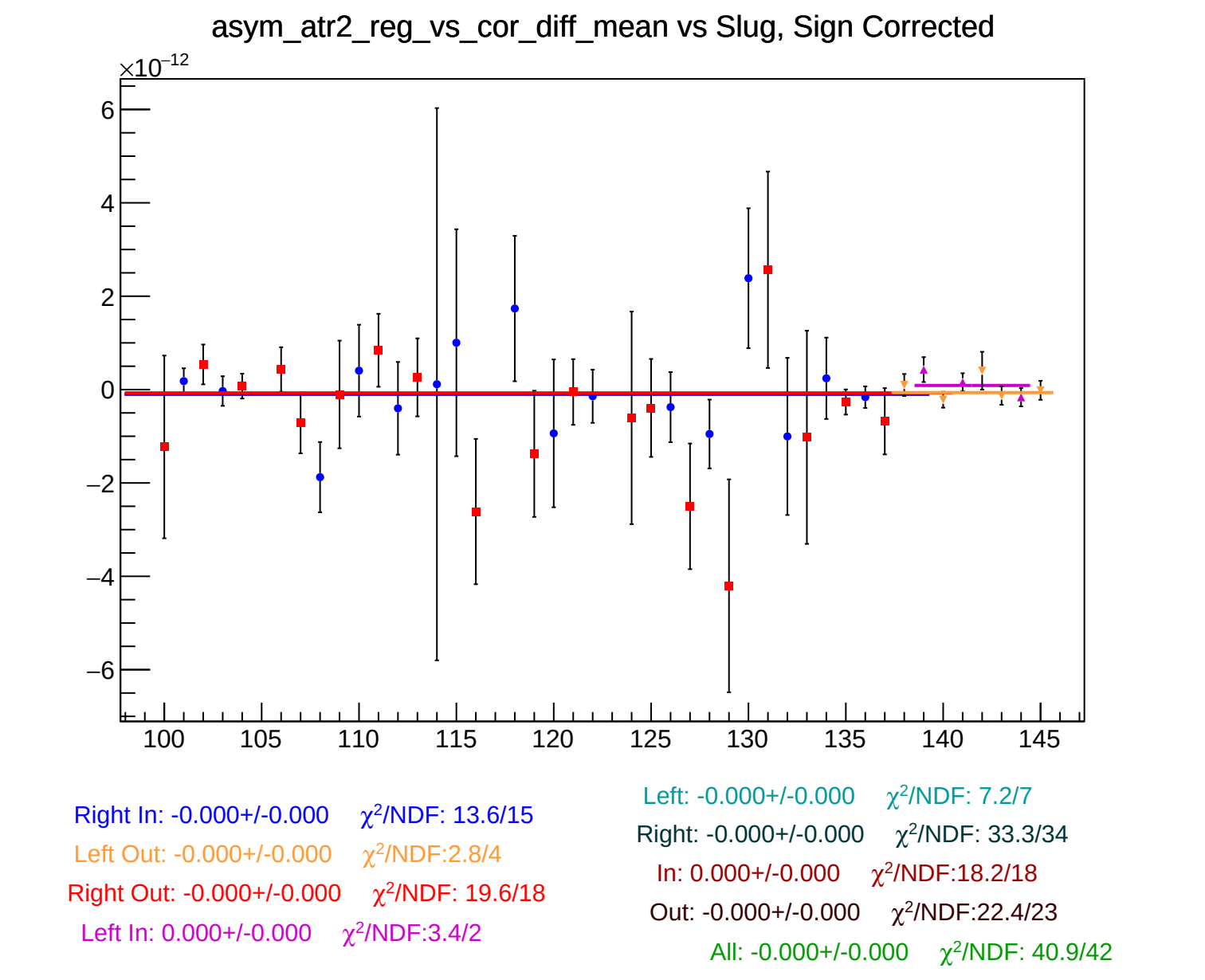
Right: 4663.718+/-2227.879 $\chi^2$/NDF: 29.5/34

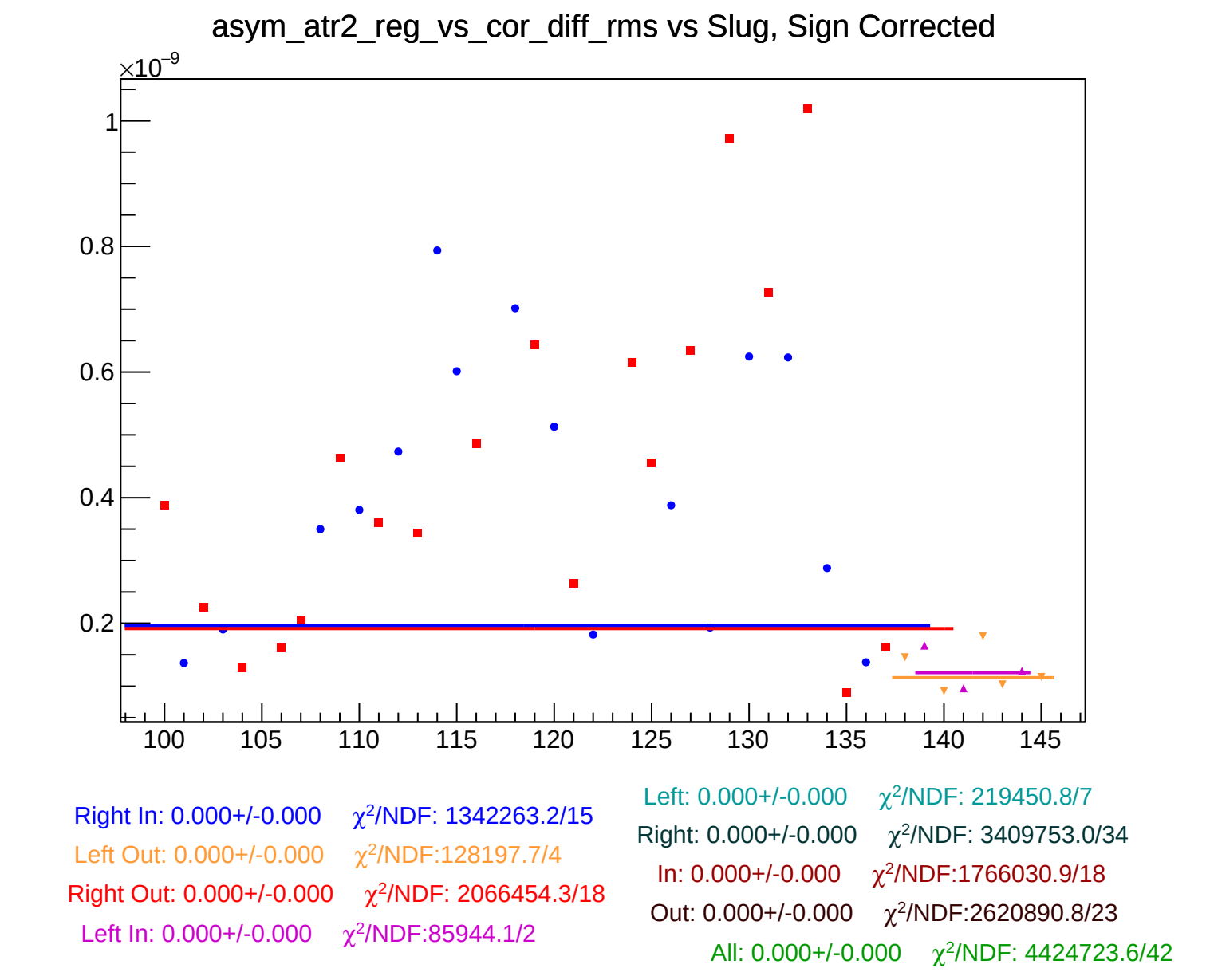
In: 5737.044+/-2775.542 $\chi^2$/NDF:17.3/18

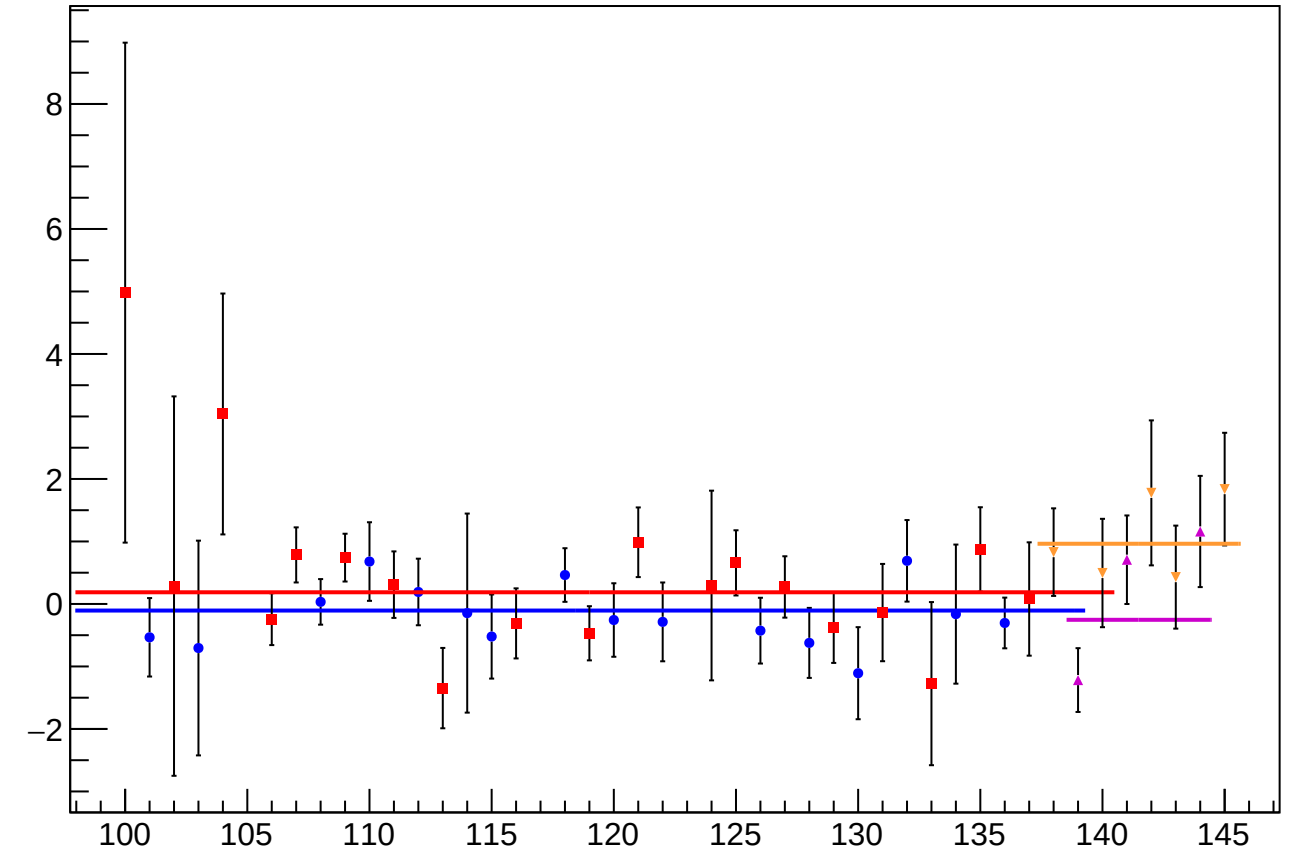
Out: -1007.579+/-2510.246 $\chi^2$/NDF:24.3/23

All: 2027.068+/-1861.757 $\chi^2$/NDF: 44.9/42


asym_atr2_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
105
110
115
120
125
130
135
140
145
Right In: 8422.717+/-2.291 χ²/NDF: 881833.9/15
Left Out: 8340.061+/-3.086 χ²/NDF:20849.8/4
Right Out: 7978.997+/-2.170 χ²/NDF: 1016019.0/18
Left In: 8672.447+/-3.805 χ²/NDF:35251.4/2
Left: 8471.940+/-2.397 χ²/NDF: 60704.0/7
Right: 8188.830+/-1.575 χ²/NDF: 1917628.8/34
In: 8489.150+/-1.963 χ²/NDF:920246.6/18
Out: 8098.443+/-1.775 χ²/NDF:1046029.1/23
All: 8274.234+/-1.316 χ²/NDF: 1988075.6/42


asym_atr2_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
4
2
0
−2
−4
−6
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 13.6/15
Left Out: -0.000+/-0.000 χ²/NDF:2.8/4
Right Out: -0.000+/-0.000 χ²/NDF: 19.6/18
Left In: 0.000+/-0.000 χ²/NDF:3.4/2
Left: -0.000+/-0.000 χ²/NDF: 7.2/7
Right: -0.000+/-0.000 χ²/NDF: 33.3/34
In: 0.000+/-0.000 χ²/NDF:18.2/18
Out: -0.000+/-0.000 χ²/NDF:22.4/23
All: -0.000+/-0.000 χ²/NDF: 40.9/42


asym_atr2_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1
0.8
0.6
0.4
0.2
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1342263.2/15
Left Out: 0.000+/-0.000 χ²/NDF:128197.7/4
Right Out: 0.000+/-0.000 χ²/NDF: 2066454.3/18
Left In: 0.000+/-0.000 χ²/NDF:85944.1/2
Left: 0.000+/-0.000 χ²/NDF: 219450.8/7
Right: 0.000+/-0.000 χ²/NDF: 3409753.0/34
In: 0.000+/-0.000 χ²/NDF:1766030.9/18
Out: 0.000+/-0.000 χ²/NDF:2620890.8/23
All: 0.000+/-0.000 χ²/NDF: 4424723.6/42




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.963+/-0.383 $\chi^2$/NDF:2.2/4

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.254+/-0.375 $\chi^2$/NDF:7.9/2

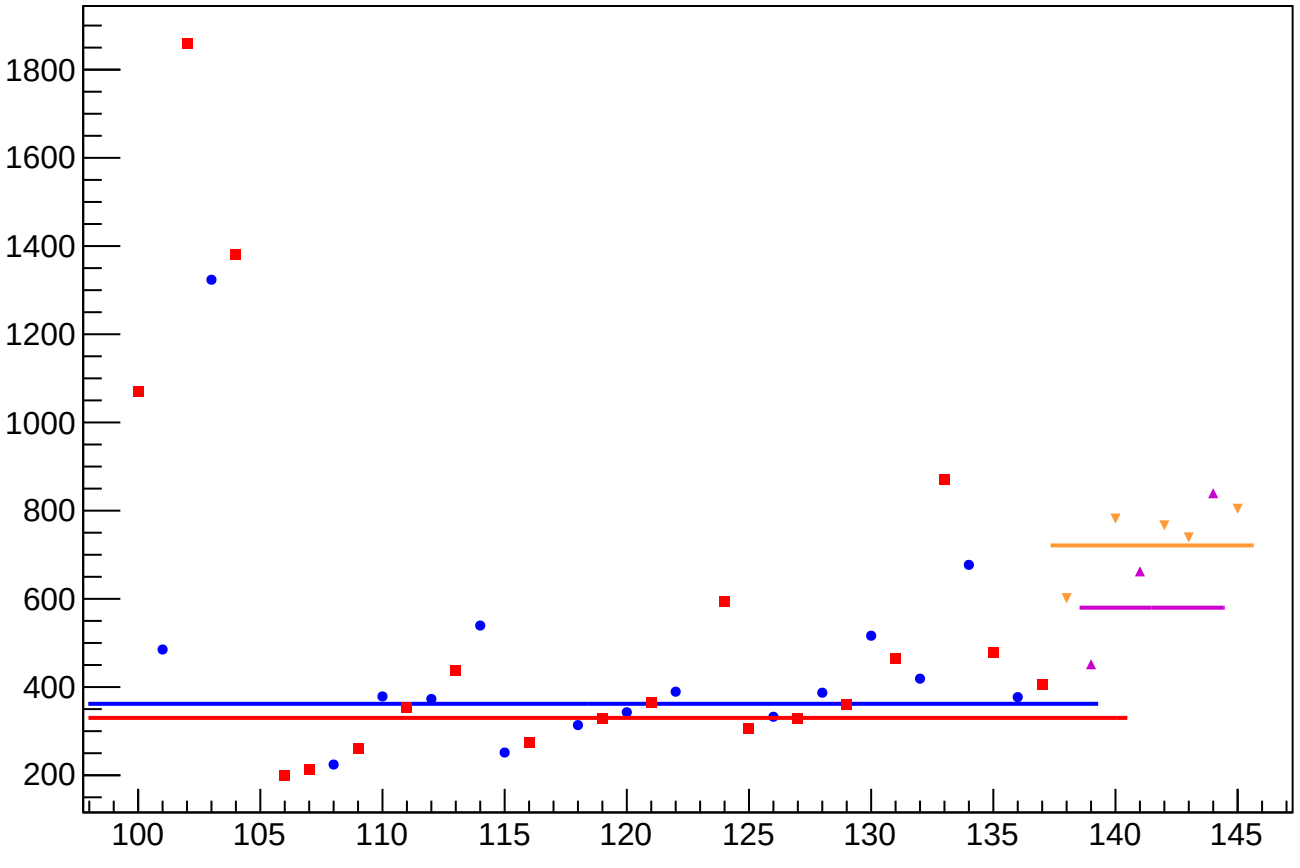
Left: 0.343+/-0.268 $\chi^2$/NDF: 15.3/7

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.125+/-0.135 $\chi^2$/NDF:17.8/18

Out: 0.275+/-0.129 $\chi^2$/NDF:29.7/23

All: 0.084+/-0.093 $\chi^2$/NDF: 52.0/42




Right In: 362.037+/-0.102 $\chi^2$/NDF: 1377330.2/15

Left Out: 721.111+/-0.271 $\chi^2$/NDF:89248.5/4

Right Out: 330.084+/-0.097 $\chi^2$/NDF: 2246513.0/18

Left In: 579.962+/-0.266 $\chi^2$/NDF:323500.7/2

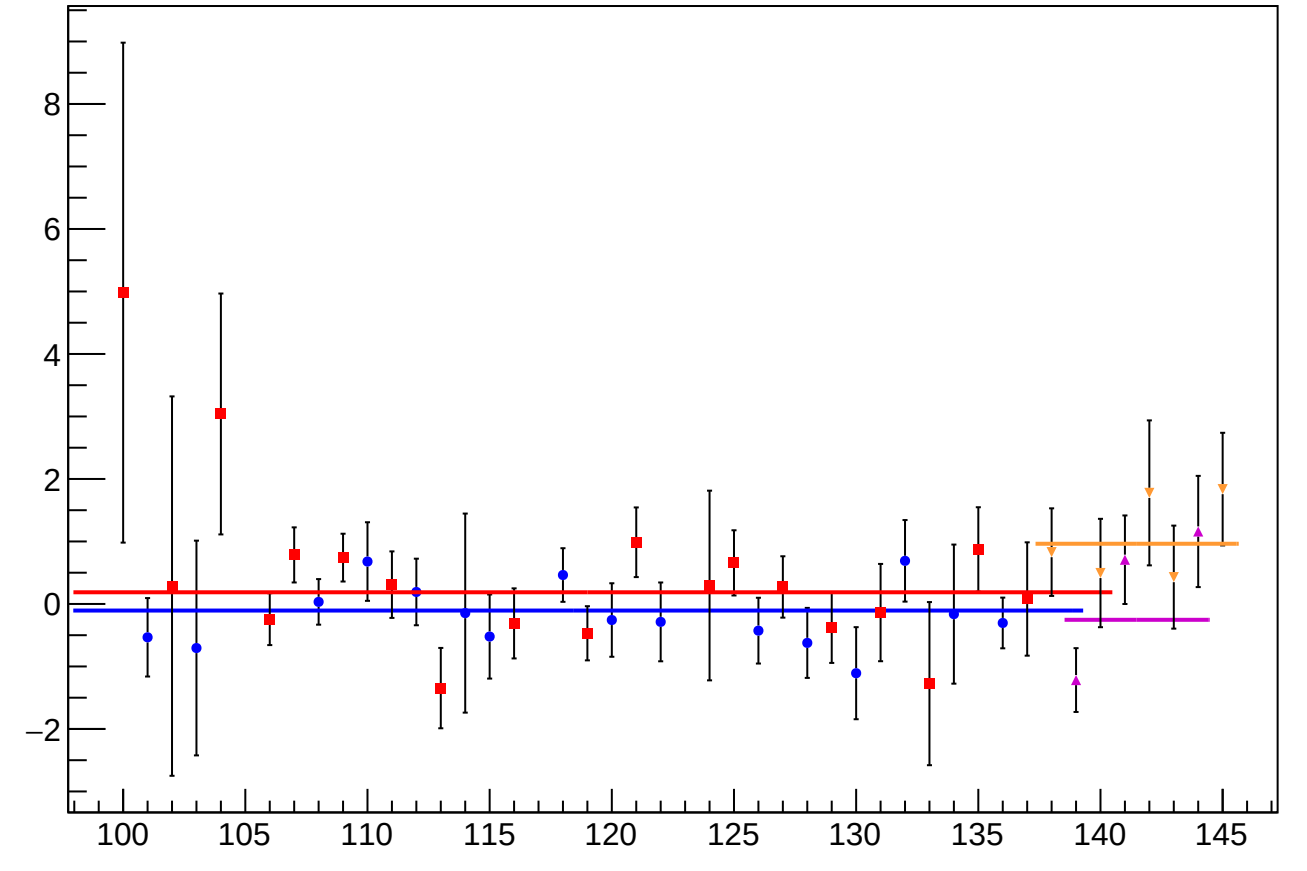
Left: 649.118+/-0.190 $\chi^2$/NDF: 551225.4/7

Right: 345.237+/-0.070 $\chi^2$/NDF: 3675129.8/34

In: 390.212+/-0.095 $\chi^2$/NDF:2287446.1/18

Out: 374.657+/-0.091 $\chi^2$/NDF:4181882.3/23

All: 382.101+/-0.066 $\chi^2$/NDF: 6483171.6/42




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.963+/-0.383 $\chi^2$/NDF:2.2/4

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.254+/-0.375 $\chi^2$/NDF:7.9/2

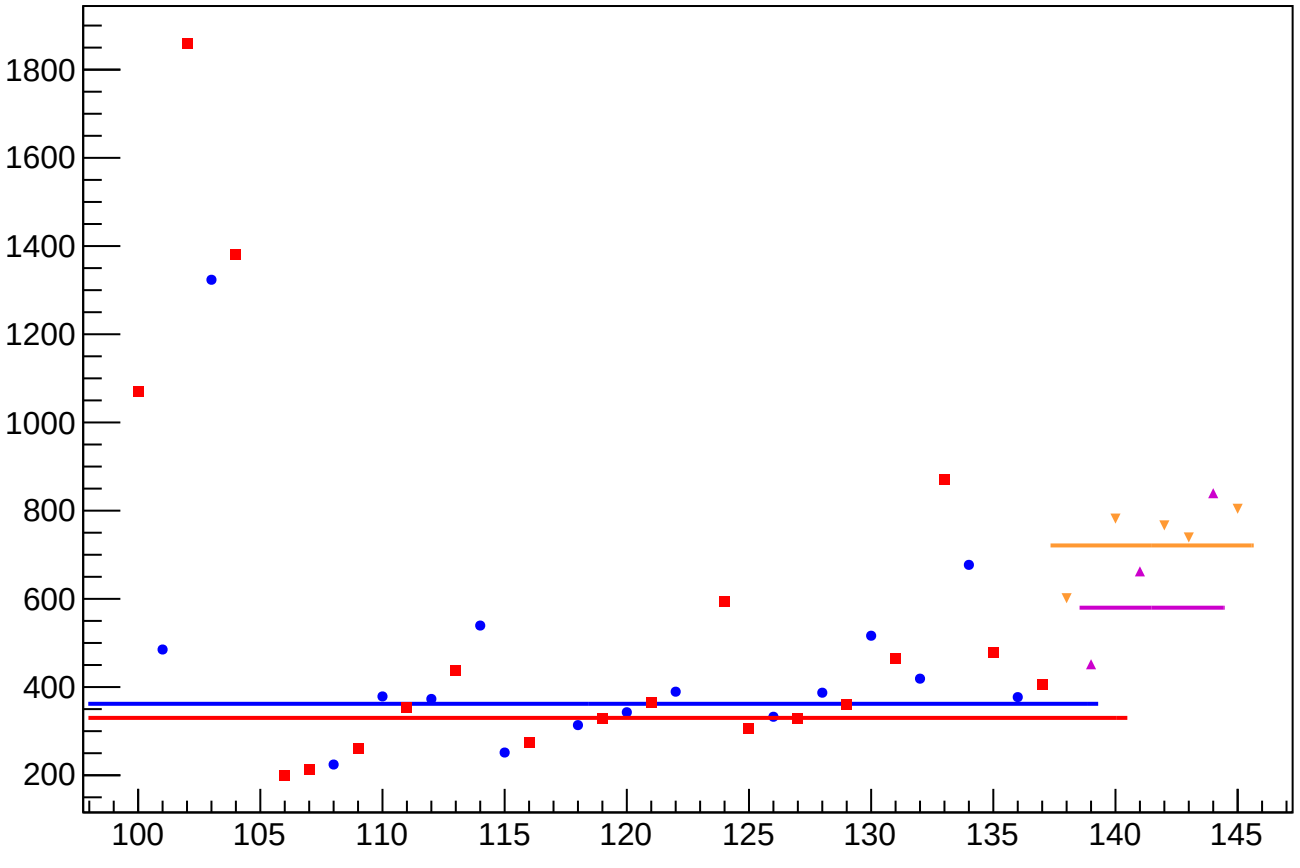
Left: 0.343+/-0.268 $\chi^2$/NDF: 15.3/7

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.125+/-0.135 $\chi^2$/NDF:17.8/18

Out: 0.275+/-0.129 $\chi^2$/NDF:29.7/23

All: 0.084+/-0.093 $\chi^2$/NDF: 52.0/42




Right In: 362.037+/-0.102 $\chi^2$/NDF: 1377330.2/15

Left Out: 721.111+/-0.271 $\chi^2$/NDF:89248.5/4

Right Out: 330.084+/-0.097 $\chi^2$/NDF: 2246513.0/18

Left In: 579.962+/-0.266 $\chi^2$/NDF:323500.7/2

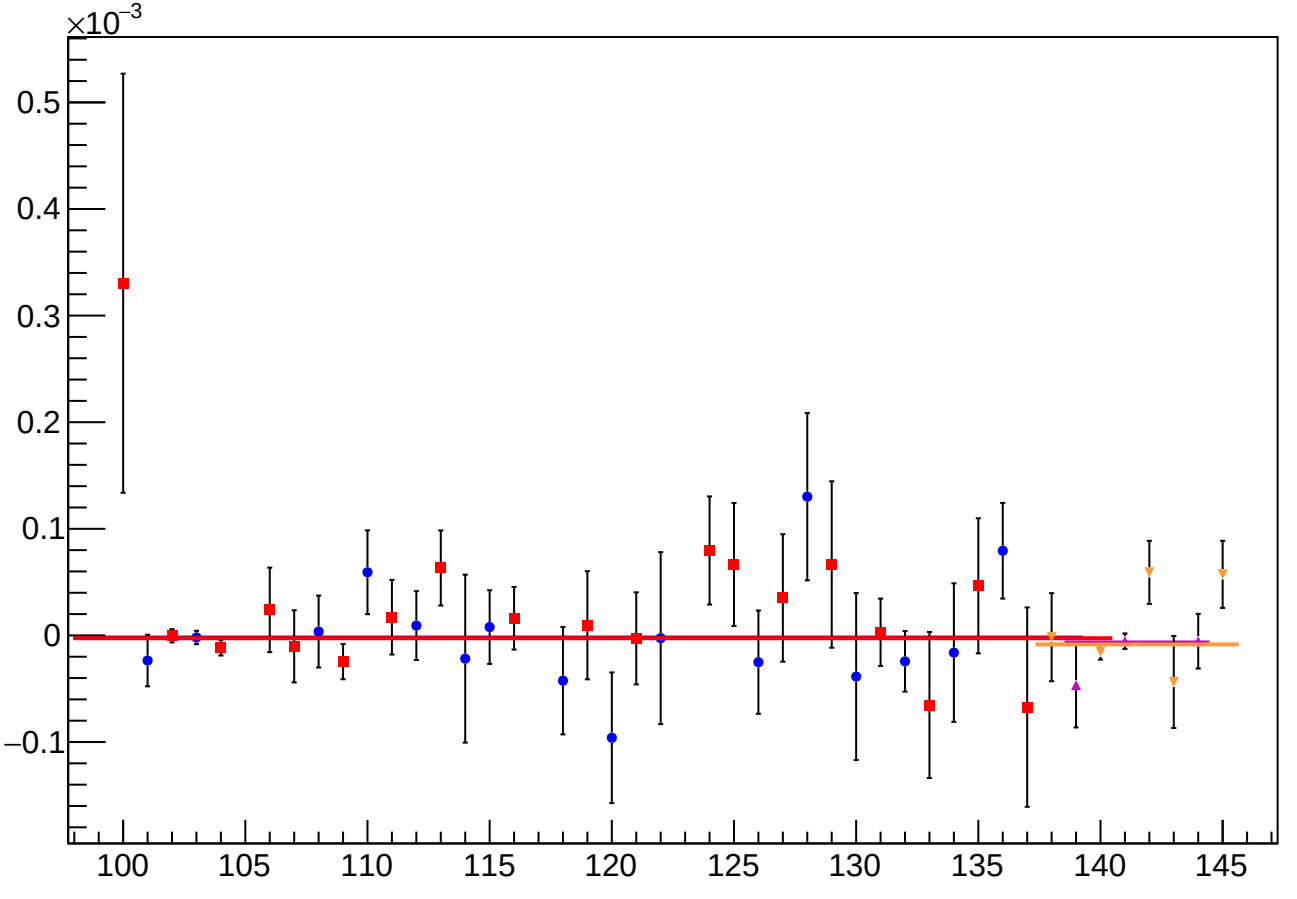
Left: 649.118+/-0.190 $\chi^2$/NDF: 551225.4/7

Right: 345.237+/-0.070 $\chi^2$/NDF: 3675129.8/34

In: 390.212+/-0.095 $\chi^2$/NDF:2287446.1/18

Out: 374.657+/-0.091 $\chi^2$/NDF:4181882.3/23

All: 382.101+/-0.066 $\chi^2$/NDF: 6483171.6/42




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

Left Out: -0.000+/-0.000 $\chi^2$/NDF:11.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.0/2

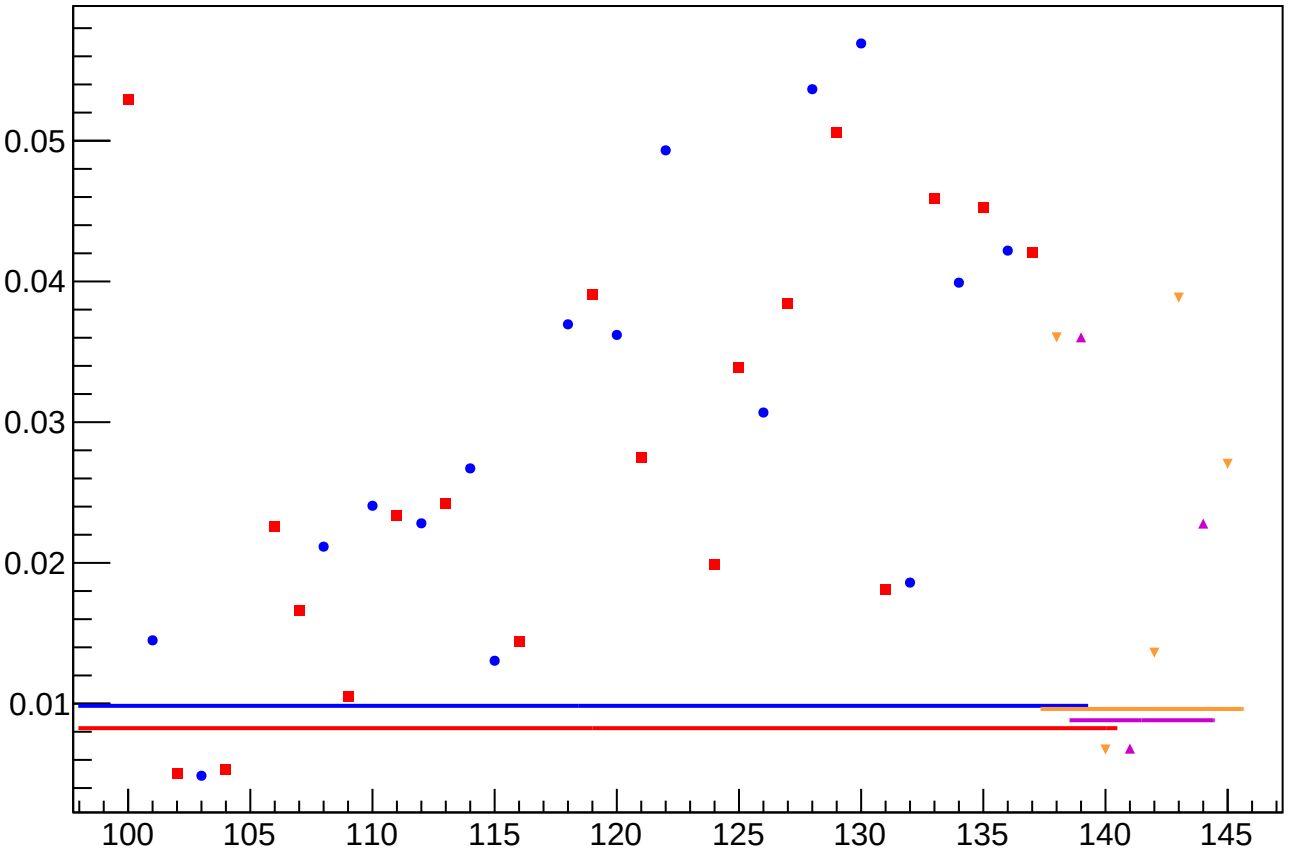
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:15.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:29.9/23

All: -0.000+/-0.000 $\chi^2$/NDF: 45.0/42




Right In: 0.010+/-0.000 $\chi^2$/NDF: 7052383.3/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:2692711.4/4

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 6740964.7/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:1684140.8/2

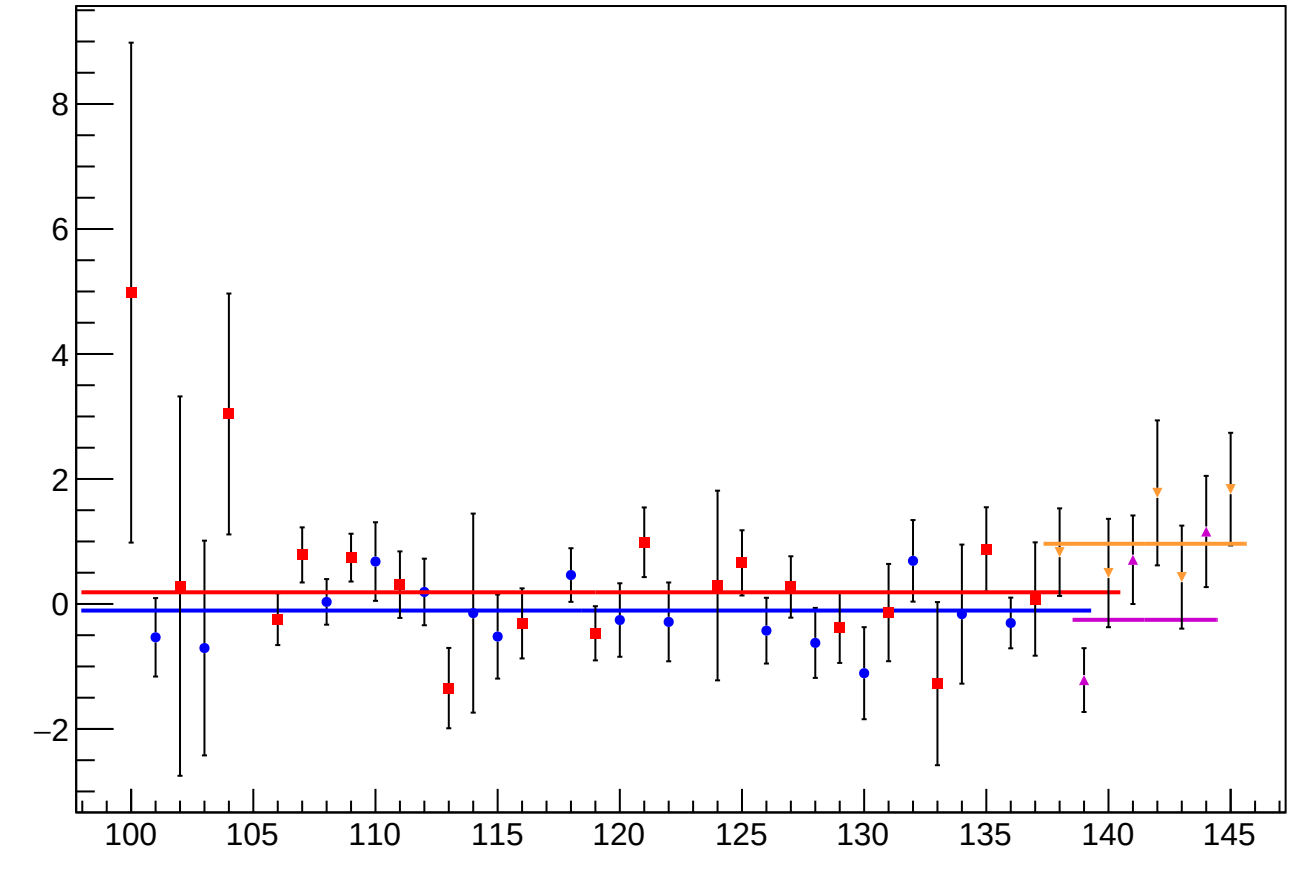
Left: 0.009+/-0.000 $\chi^2$/NDF: 4390729.7/7

Right: 0.009+/-0.000 $\chi^2$/NDF: 13900238.9/34

In: 0.009+/-0.000 $\chi^2$/NDF:8764023.3/18

Out: 0.009+/-0.000 $\chi^2$/NDF:9492163.1/23

All: 0.009+/-0.000 $\chi^2$/NDF: 18298830.4/42




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.963+/-0.383 $\chi^2$/NDF:2.2/4

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.254+/-0.375 $\chi^2$/NDF:7.9/2

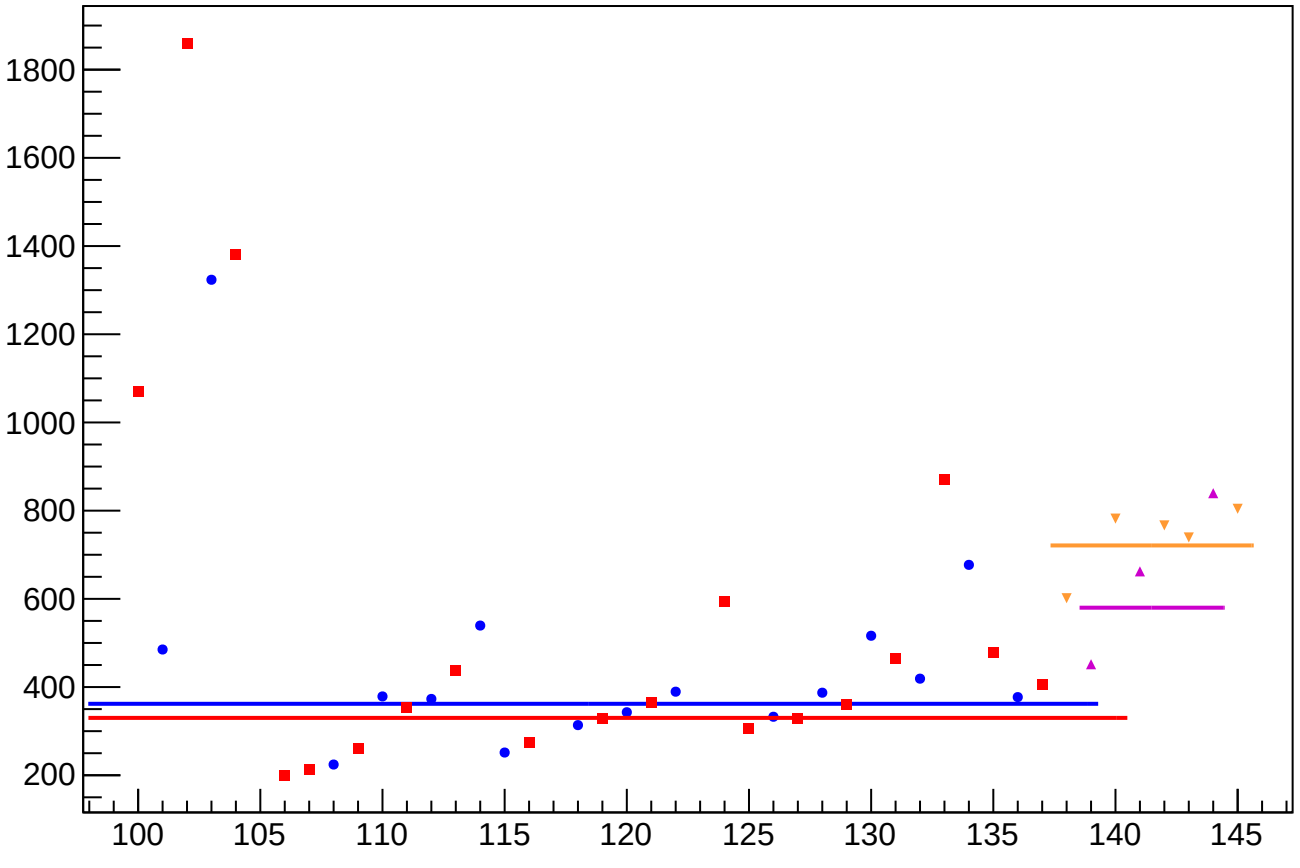
Left: 0.343+/-0.268 $\chi^2$/NDF: 15.3/7

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.125+/-0.135 $\chi^2$/NDF:17.8/18

Out: 0.275+/-0.129 $\chi^2$/NDF:29.7/23

All: 0.084+/-0.093 $\chi^2$/NDF: 52.0/42




Right In: 362.034+/-0.102 $\chi^2$/NDF: 1377333.3/15

Left Out: 721.120+/-0.271 $\chi^2$/NDF:89241.9/4

Right Out: 330.082+/-0.097 $\chi^2$/NDF: 2246503.8/18

Left In: 579.968+/-0.266 $\chi^2$/NDF:323487.0/2

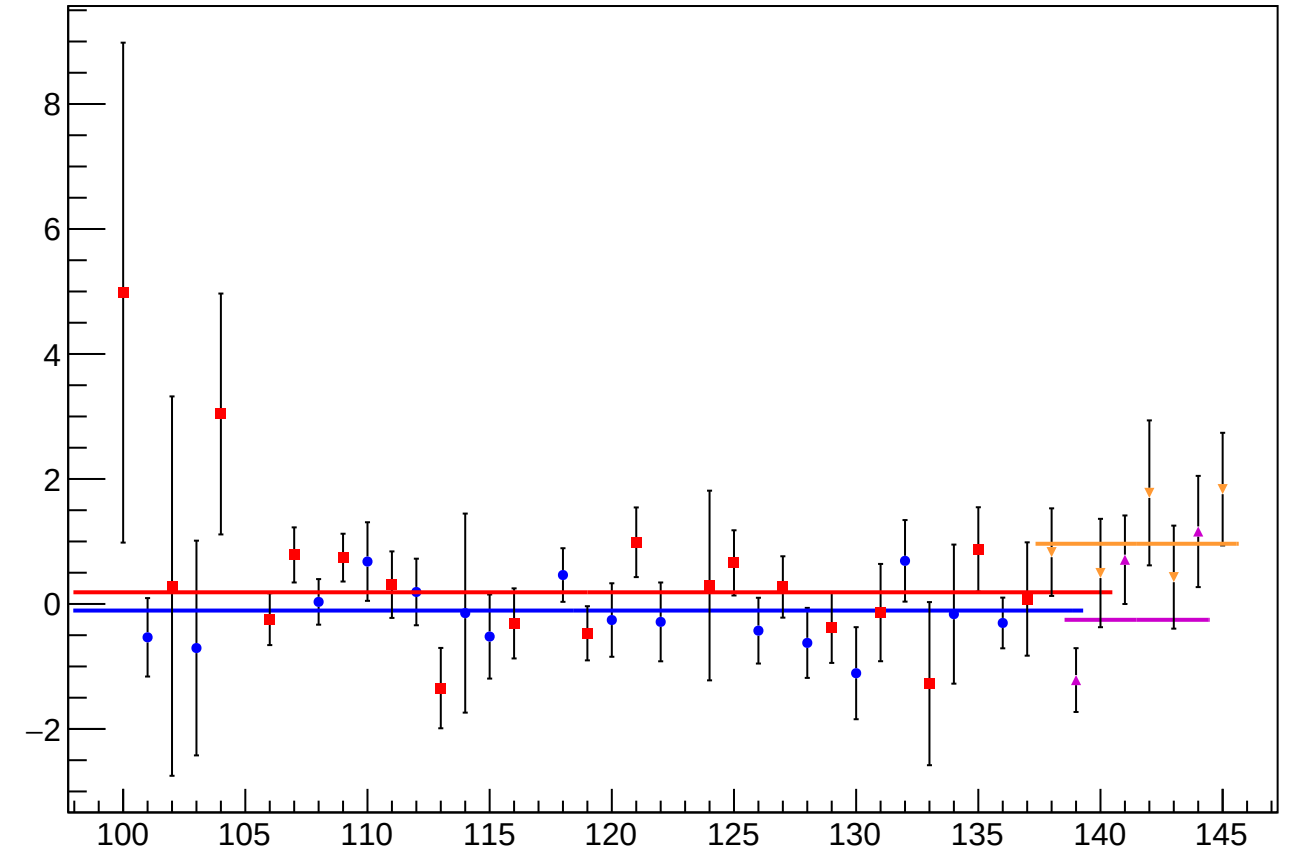
Left: 649.126+/-0.190 $\chi^2$/NDF: 551206.7/7

Right: 345.235+/-0.070 $\chi^2$/NDF: 3675120.0/34

In: 390.210+/-0.095 $\chi^2$/NDF:2287475.9/18

Out: 374.655+/-0.091 $\chi^2$/NDF:4181926.4/23

All: 382.099+/-0.066 $\chi^2$/NDF: 6483244.1/42




Right In: -0.105+/-0.145 $\chi^2$/NDF: 9.7/15

Left Out: 0.963+/-0.383 $\chi^2$/NDF:2.2/4

Right Out: 0.187+/-0.137 $\chi^2$/NDF: 23.9/18

Left In: -0.254+/-0.375 $\chi^2$/NDF:7.9/2

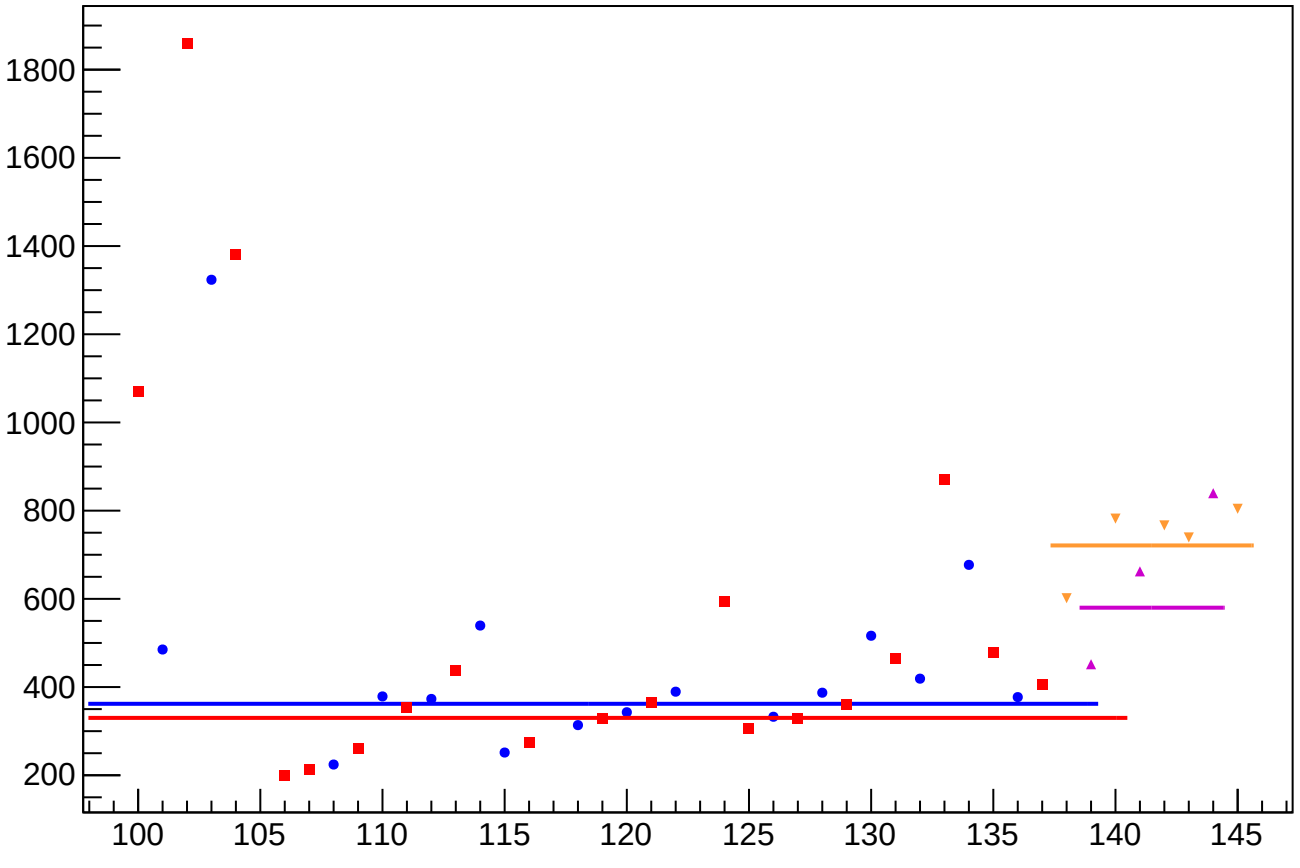
Left: 0.343+/-0.268 $\chi^2$/NDF: 15.3/7

Right: 0.048+/-0.100 $\chi^2$/NDF: 35.7/34

In: -0.125+/-0.135 $\chi^2$/NDF:17.8/18

Out: 0.275+/-0.129 $\chi^2$/NDF:29.7/23

All: 0.084+/-0.093 $\chi^2$/NDF: 52.0/42




Right In: 362.034+/-0.102 $\chi^2$/NDF: 1377333.3/15

Left Out: 721.120+/-0.271 $\chi^2$/NDF:89241.9/4

Right Out: 330.082+/-0.097 $\chi^2$/NDF: 2246503.8/18

Left In: 579.968+/-0.266 $\chi^2$/NDF:323487.0/2

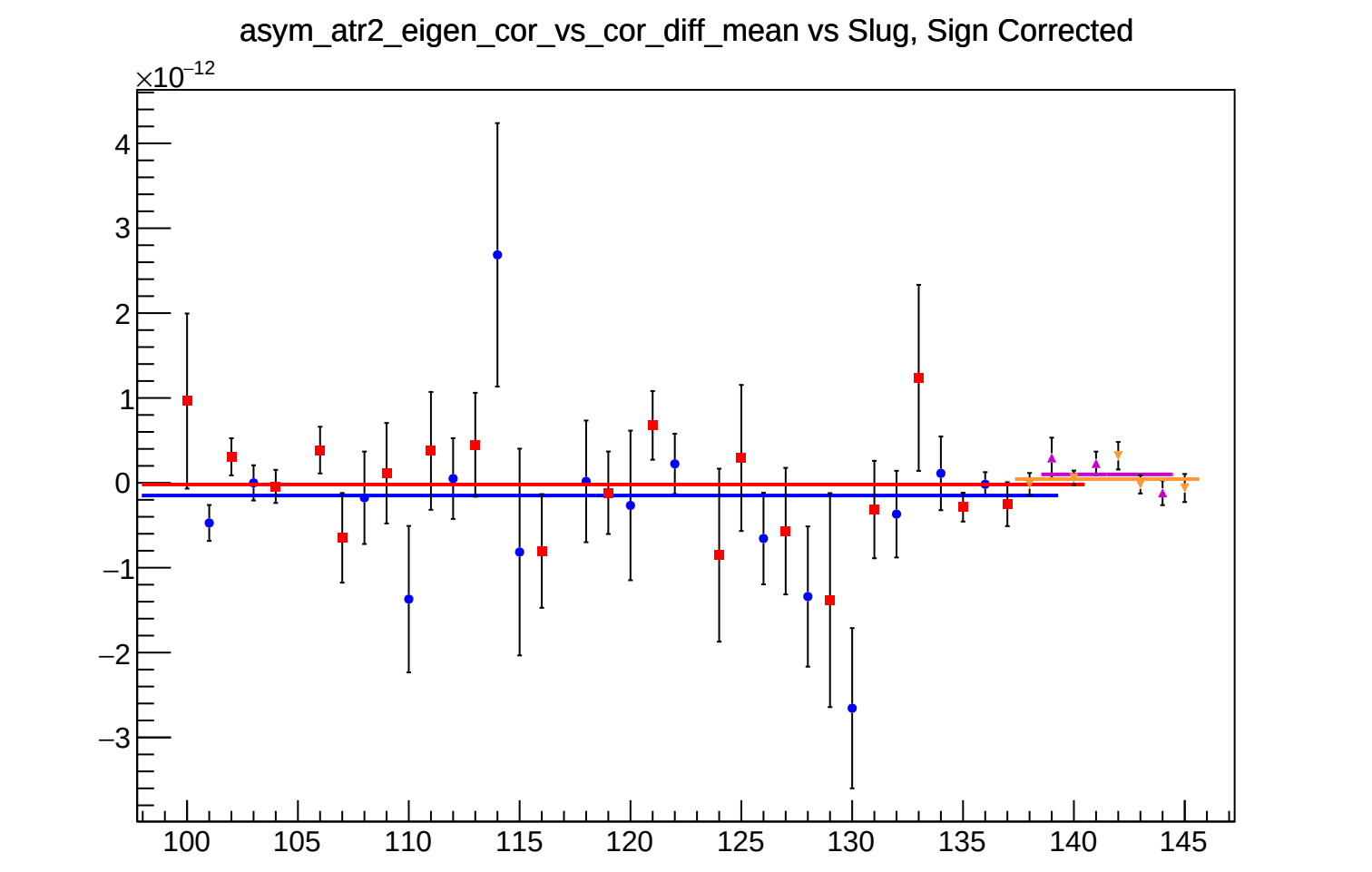
Left: 649.126+/-0.190 $\chi^2$/NDF: 551206.7/7

Right: 345.235+/-0.070 $\chi^2$/NDF: 3675120.0/34

In: 390.210+/-0.095 $\chi^2$/NDF:2287475.9/18

Out: 374.655+/-0.091 $\chi^2$/NDF:4181926.4/23

All: 382.099+/-0.066 $\chi^2$/NDF: 6483244.1/42




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

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.9/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.8/2

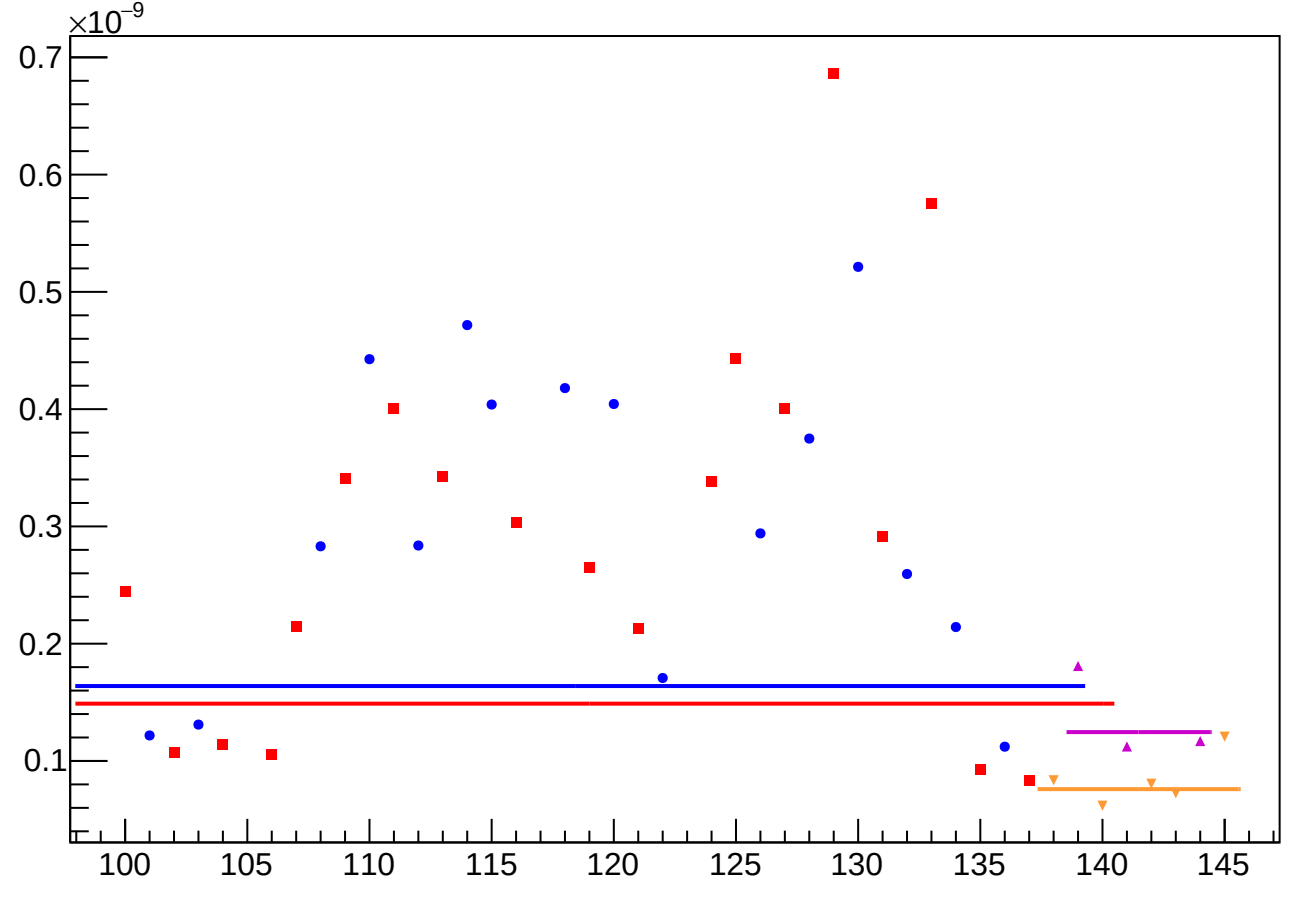
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.9/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:28.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 53.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2011207.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:212248.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2846265.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:133736.3/2

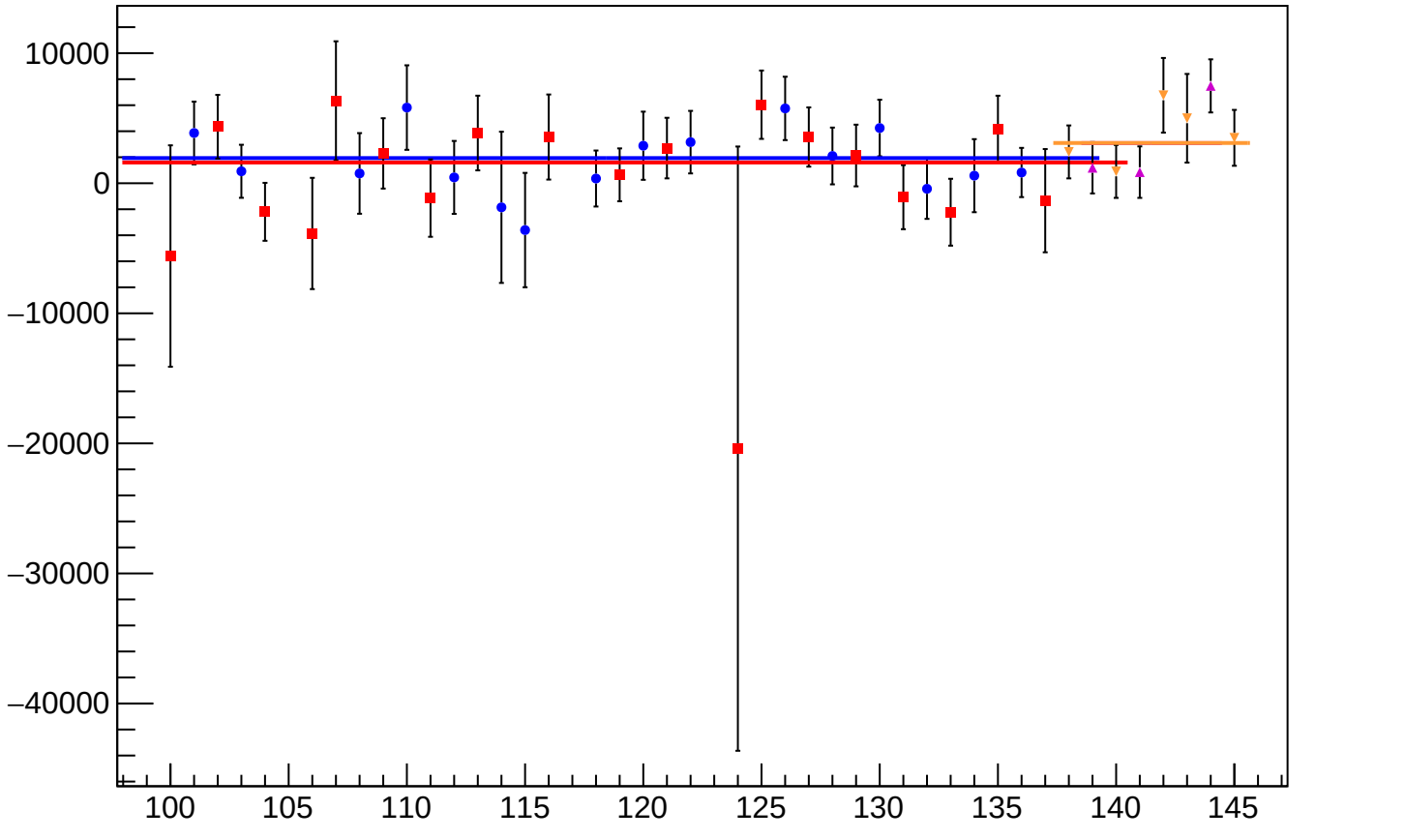
Left: 0.000+/-0.000 $\chi^2$/NDF: 763340.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4888401.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2335802.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4146486.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7265977.3/42




Right In: 1934.755+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 3096.358+/-1049.976 $\chi^2$/NDF:3.2/4

Right Out: 1597.959+/-642.207 $\chi^2$/NDF: 19.4/18

Left In: 3084.882+/-1153.264 $\chi^2$/NDF:6.8/2

Left: 3091.157+/-776.398 $\chi^2$/NDF: 10.1/7

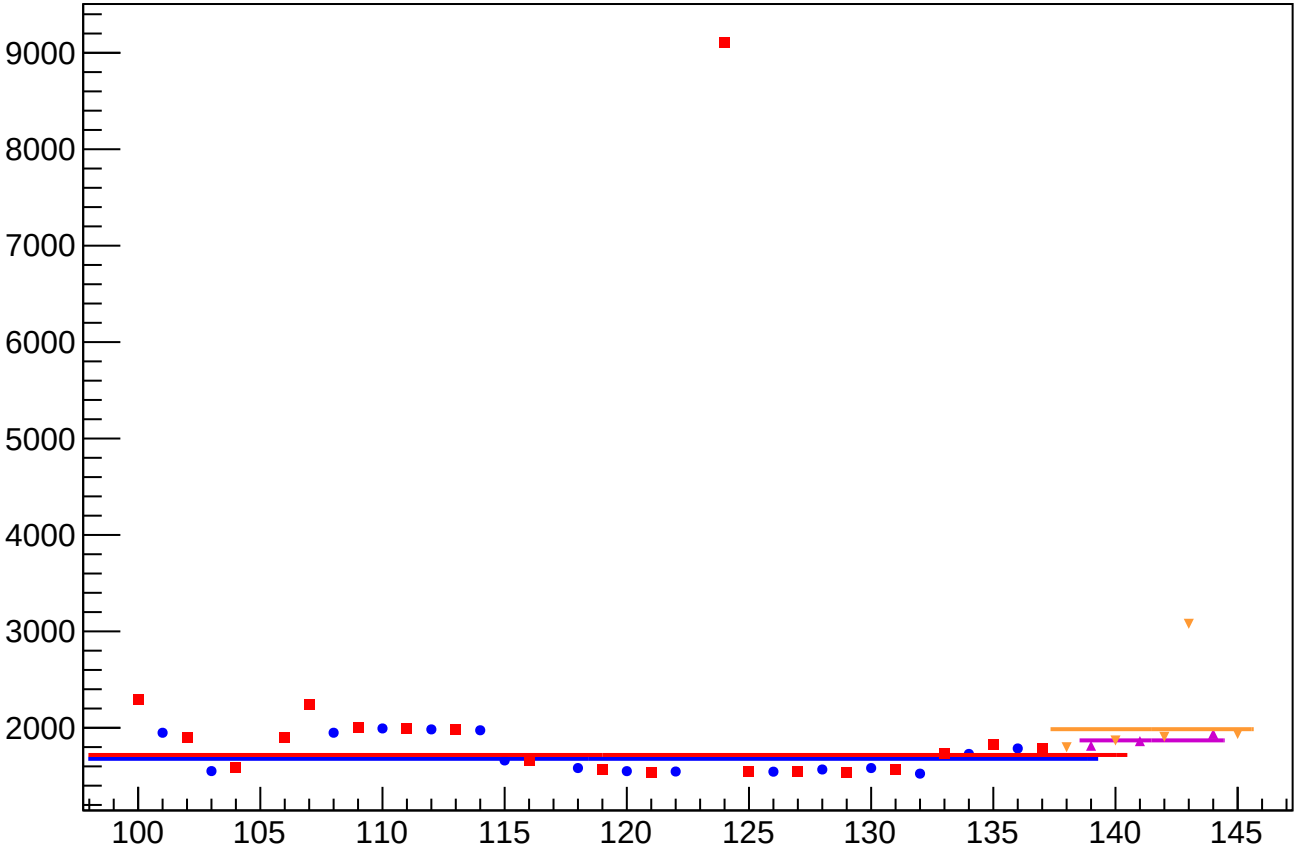
Right: 1770.157+/-448.956 $\chi^2$/NDF: 30.4/34

In: 2197.717+/-551.445 $\chi^2$/NDF:18.5/18

Out: 2005.902+/-547.854 $\chi^2$/NDF:24.1/23

All: 2101.183+/-388.655 $\chi^2$/NDF: 42.7/42

# reg_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.6/15

Left Out: 1985.779+/-0.742 $\chi^2$/NDF:231916.8/4

Right Out: 1718.312+/-0.452 $\chi^2$/NDF: 383179.3/18

Left In: 1869.637+/-0.815 $\chi^2$/NDF:3805.5/2

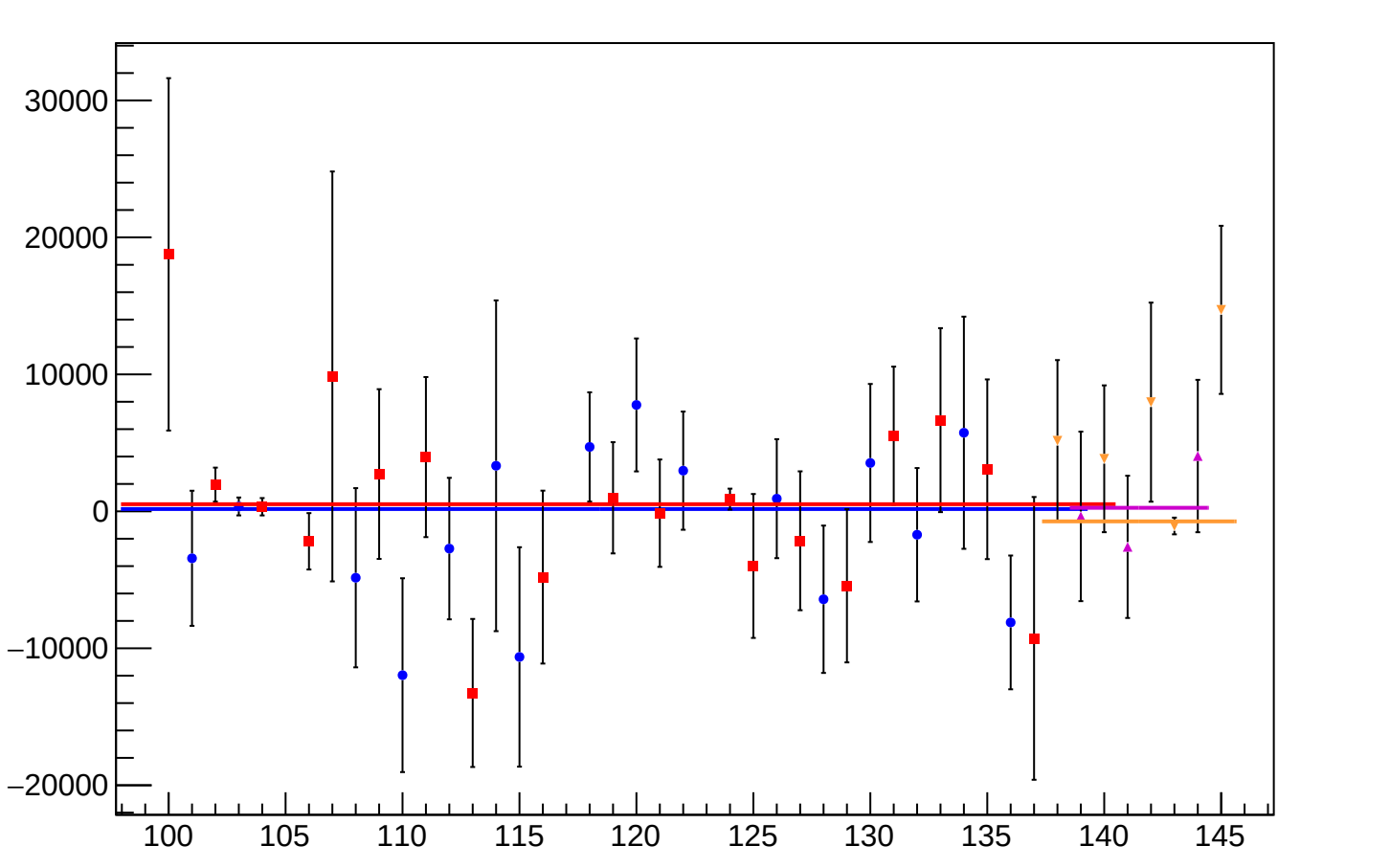
Left: 1933.141+/-0.549 $\chi^2$/NDF: 246813.0/7

Right: 1698.073+/-0.317 $\chi^2$/NDF: 528602.3/34

In: 1722.234+/-0.390 $\chi^2$/NDF:187645.4/18

Out: 1790.630+/-0.386 $\chi^2$/NDF:709786.8/23

All: 1756.773+/-0.274 $\chi^2$/NDF: 912969.3/42




Right In: 168.283+/-591.607 $\chi^2$/NDF: 15.8/15

Left Out: -732.966+/-598.349 $\chi^2$/NDF:9.8/4

Right Out: 521.080+/-424.783 $\chi^2$/NDF: 18.5/18

Left In: 257.537+/-3235.691 $\chi^2$/NDF:0.8/2

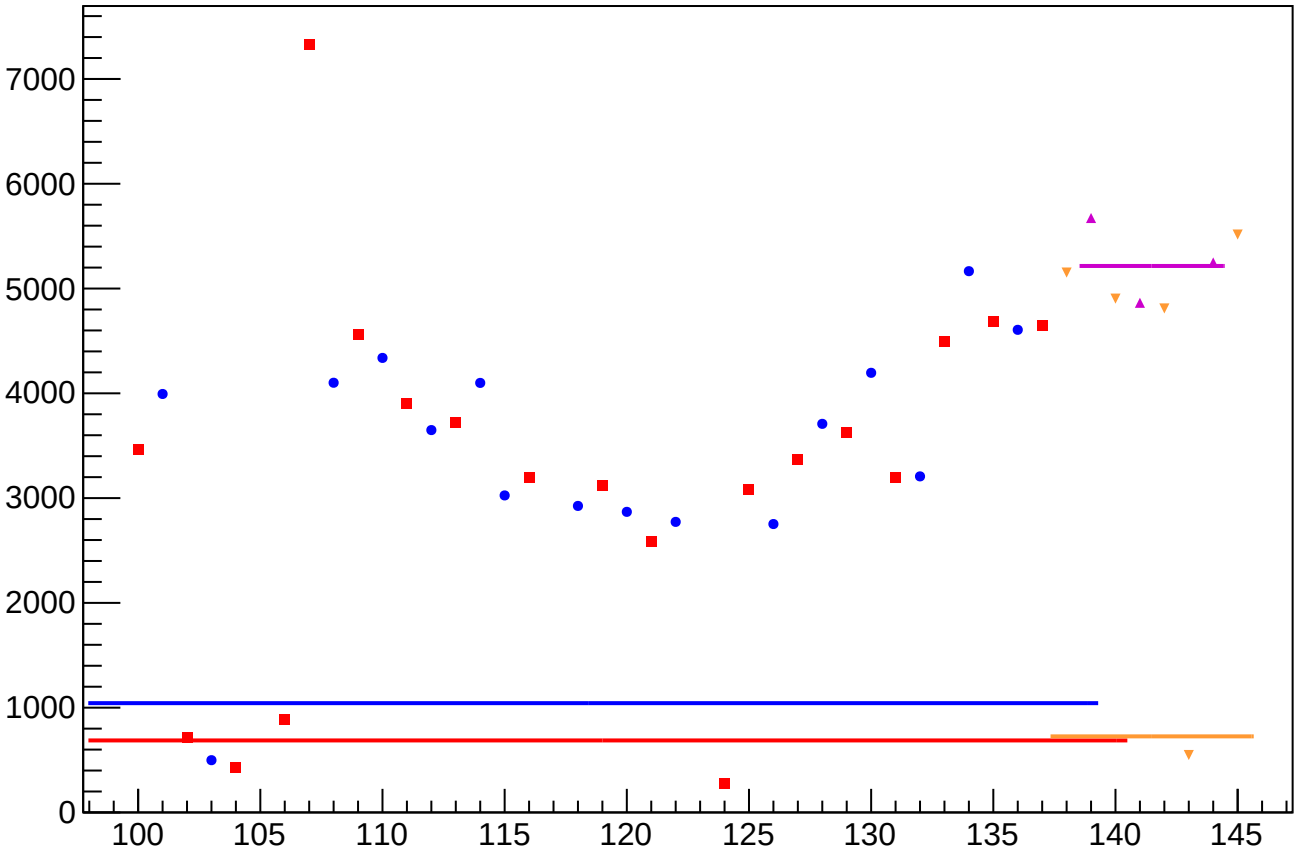
Left: -700.215+/-588.374 $\chi^2$/NDF: 10.7/7

Right: 401.068+/-345.050 $\chi^2$/NDF: 34.6/34

In: 171.170+/-581.959 $\chi^2$/NDF:16.6/18

Out: 100.845+/-346.373 $\chi^2$/NDF:31.3/23

All: 119.241+/-297.643 $\chi^2$/NDF: 47.9/42




Right In: 1043.117+/-0.418 $\chi^2$/NDF: 8111897.6/15

Left Out: 726.084+/-0.423 $\chi^2$/NDF:4364327.6/4

Right Out: 687.329+/-0.300 $\chi^2$/NDF: 8631529.6/18

Left In: 5215.435+/-2.288 $\chi^2$/NDF:20173.5/2

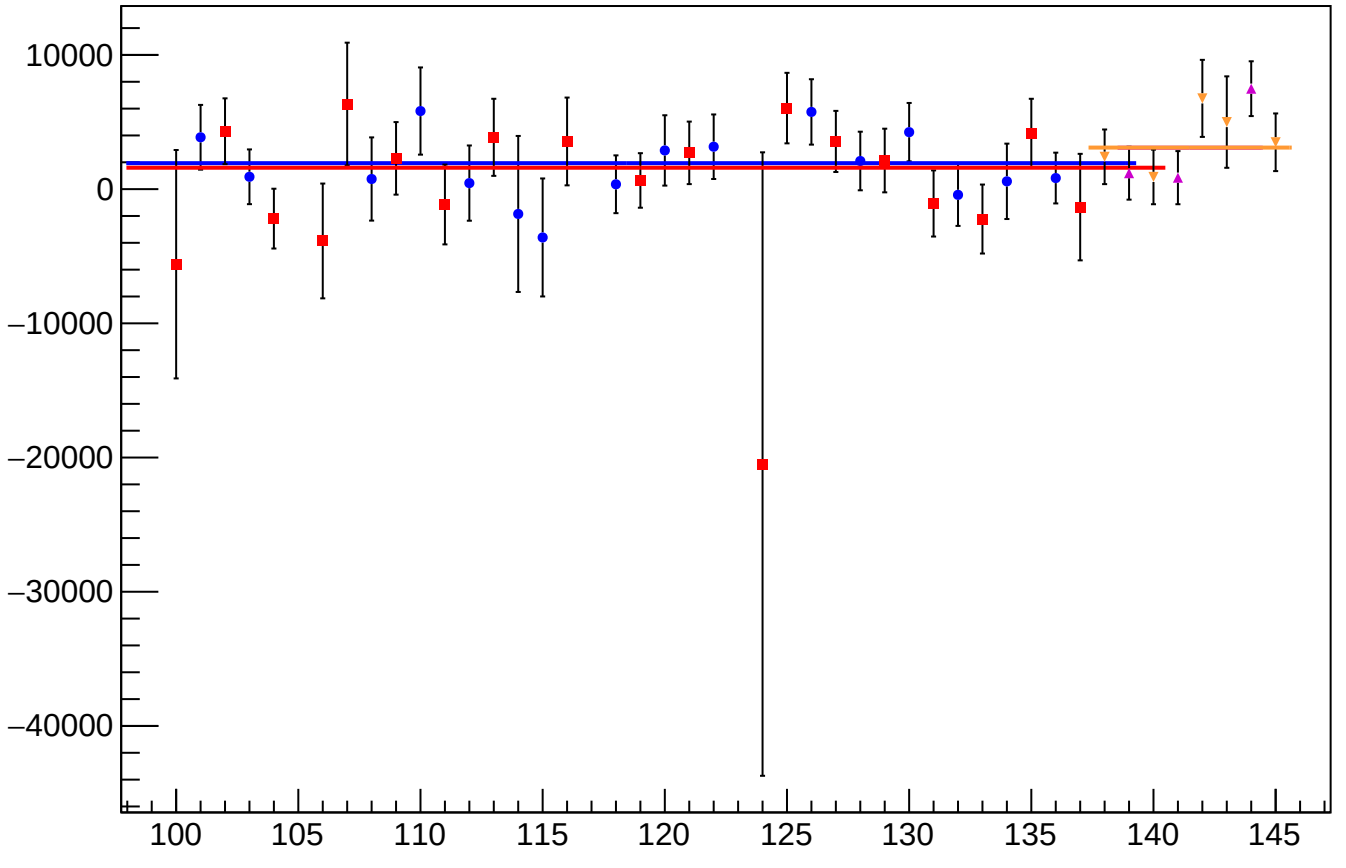
Left: 874.526+/-0.416 $\chi^2$/NDF: 8107219.5/7

Right: 808.358+/-0.244 $\chi^2$/NDF: 17220710.7/34

In: 1178.084+/-0.412 $\chi^2$/NDF:11349951.3/18

Out: 700.316+/-0.245 $\chi^2$/NDF:13001435.9/23

All: 825.291+/-0.210 $\chi^2$/NDF: 25346751.3/42




Right In: 1934.871+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 3096.548+/-1049.976 $\chi^2$/NDF:3.2/4

Right Out: 1595.521+/-642.212 $\chi^2$/NDF: 19.4/18

Left In: 3085.068+/-1153.264 $\chi^2$/NDF:6.8/2

Left: 3091.345+/-776.398 $\chi^2$/NDF: 10.1/7

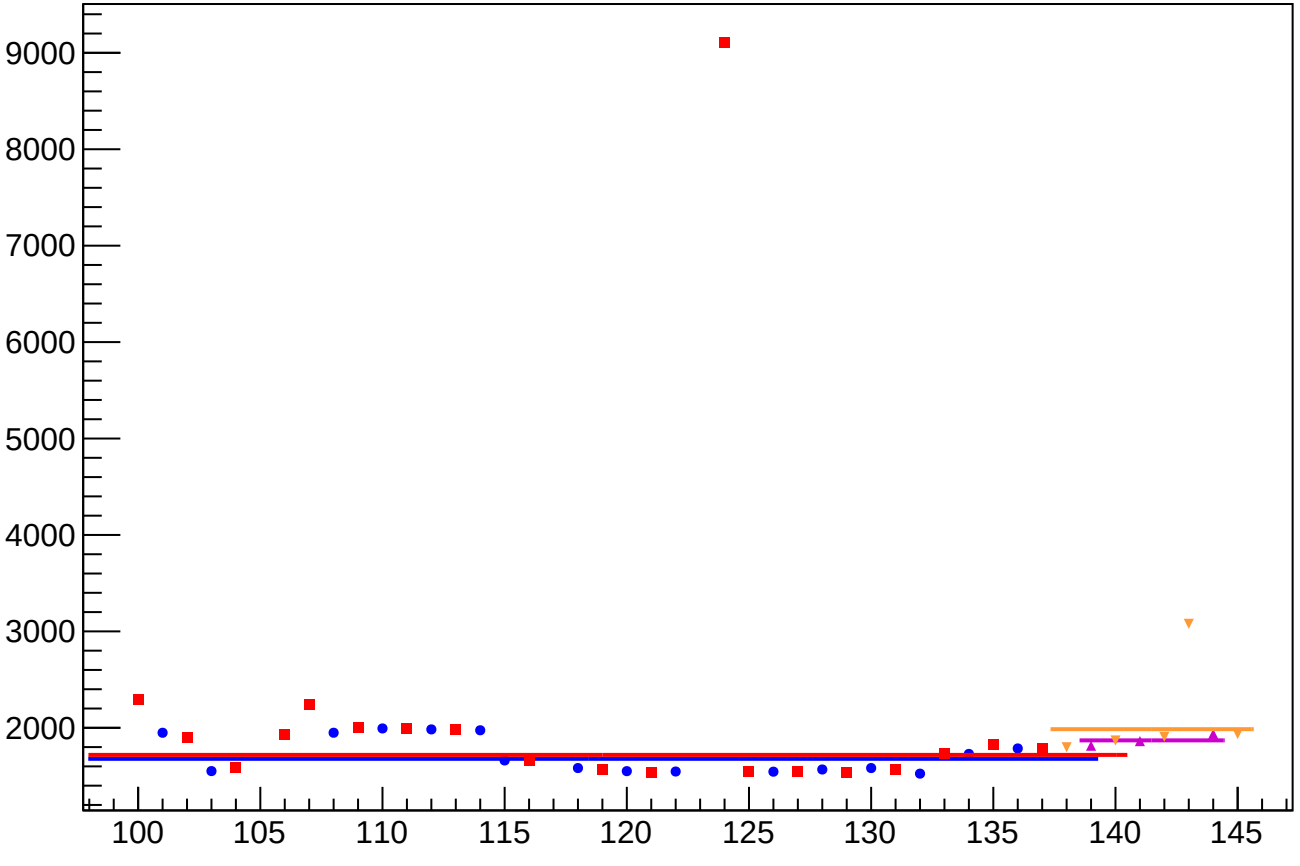
Right: 1769.026+/-448.957 $\chi^2$/NDF: 30.4/34

In: 2197.849+/-551.445 $\chi^2$/NDF:18.5/18

Out: 2004.184+/-547.858 $\chi^2$/NDF:24.1/23

All: 2100.384+/-388.656 $\chi^2$/NDF: 42.7/42

# cor_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.7/15

Left Out: 1985.779+/-0.742 $\chi^2$/NDF:231916.8/4

Right Out: 1719.146+/-0.452 $\chi^2$/NDF: 384922.3/18

Left In: 1869.637+/-0.815 $\chi^2$/NDF:3805.5/2

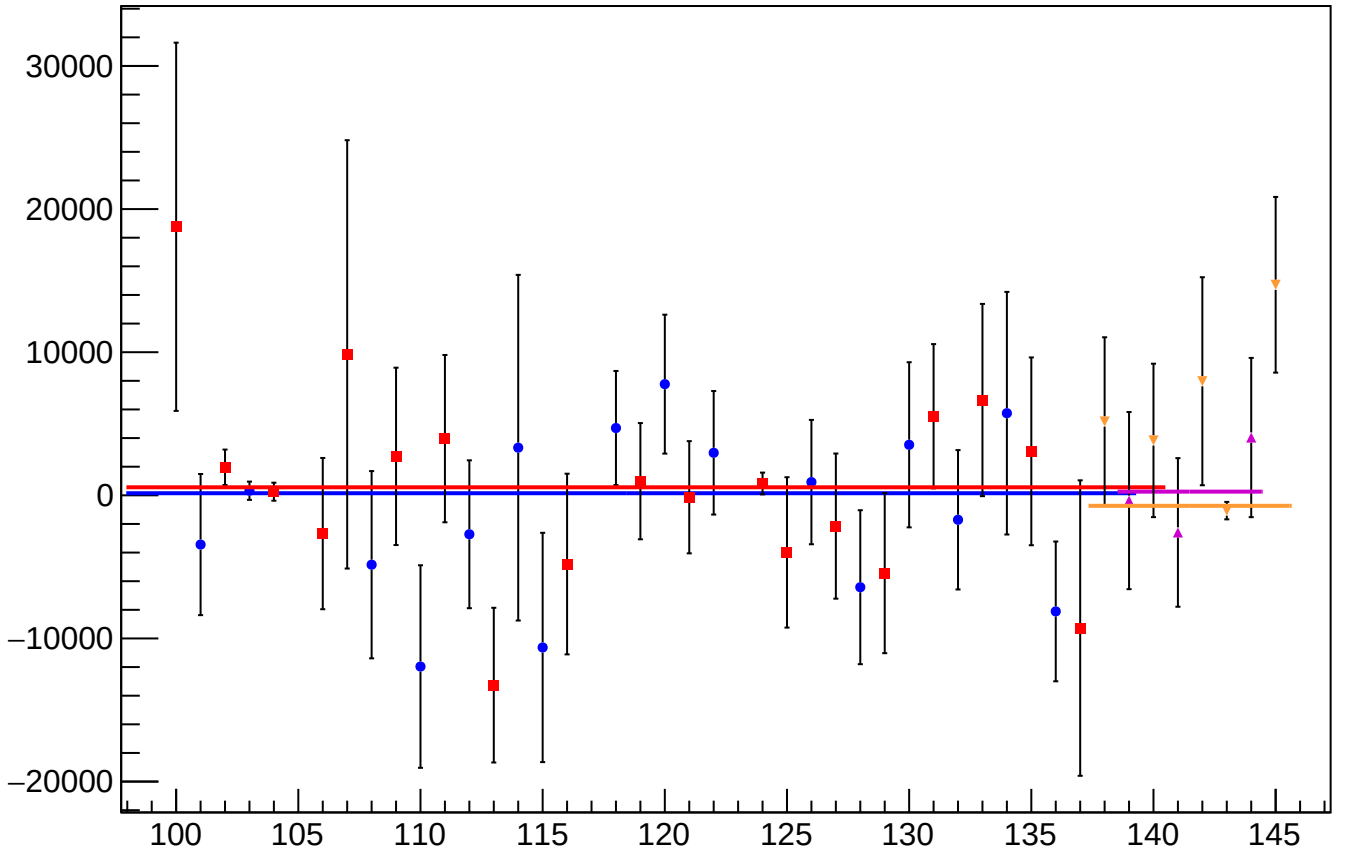
Left: 1933.141+/-0.549 $\chi^2$/NDF: 246813.0/7

Right: 1698.473+/-0.317 $\chi^2$/NDF: 530510.4/34

In: 1722.234+/-0.390 $\chi^2$/NDF:187645.5/18

Out: 1791.290+/-0.386 $\chi^2$/NDF:710915.0/23

All: 1757.094+/-0.274 $\chi^2$/NDF: 914393.5/42




Right In: 146.548+/-579.356 $\chi^2$/NDF: 15.8/15

Left Out: -732.586+/-598.325 $\chi^2$/NDF:9.8/4

Right Out: 561.454+/-430.621 $\chi^2$/NDF: 17.2/18

Left In: 257.668+/-3235.689 $\chi^2$/NDF:0.8/2

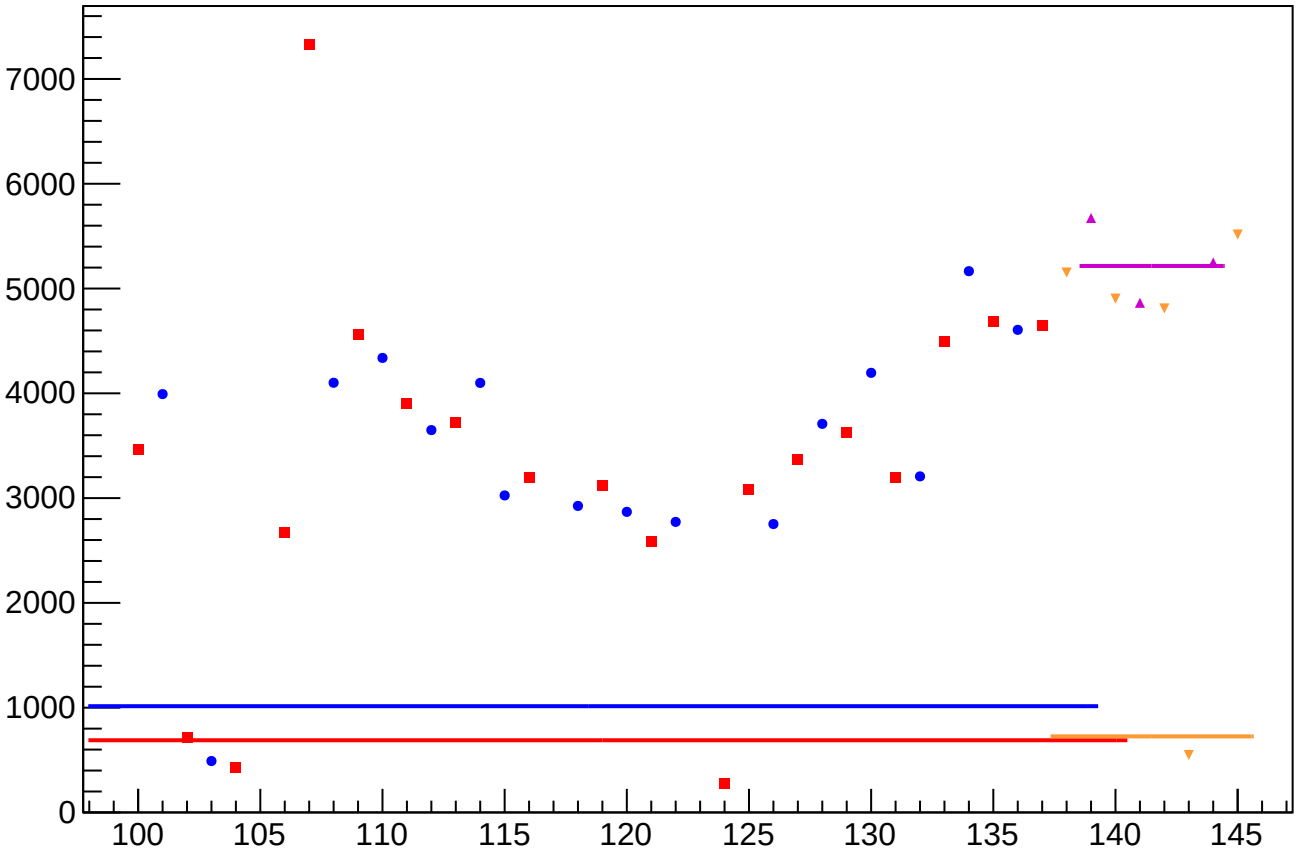
Left: -699.845+/-588.351 $\chi^2$/NDF: 10.7/7

Right: 413.806+/-345.609 $\chi^2$/NDF: 33.3/34

In: 150.000+/-570.287 $\chi^2$/NDF:16.6/18

Out: 119.887+/-349.512 $\chi^2$/NDF:30.1/23

All: 128.109+/-297.999 $\chi^2$/NDF: 46.7/42




Right In: 1014.094+/-0.410 $\chi^2$/NDF: 8223017.6/15

Left Out: 726.050+/-0.423 $\chi^2$/NDF:4364384.9/4

Right Out: 689.055+/-0.304 $\chi^2$/NDF: 8910364.4/18

Left In: 5215.431+/-2.288 $\chi^2$/NDF:20173.9/2

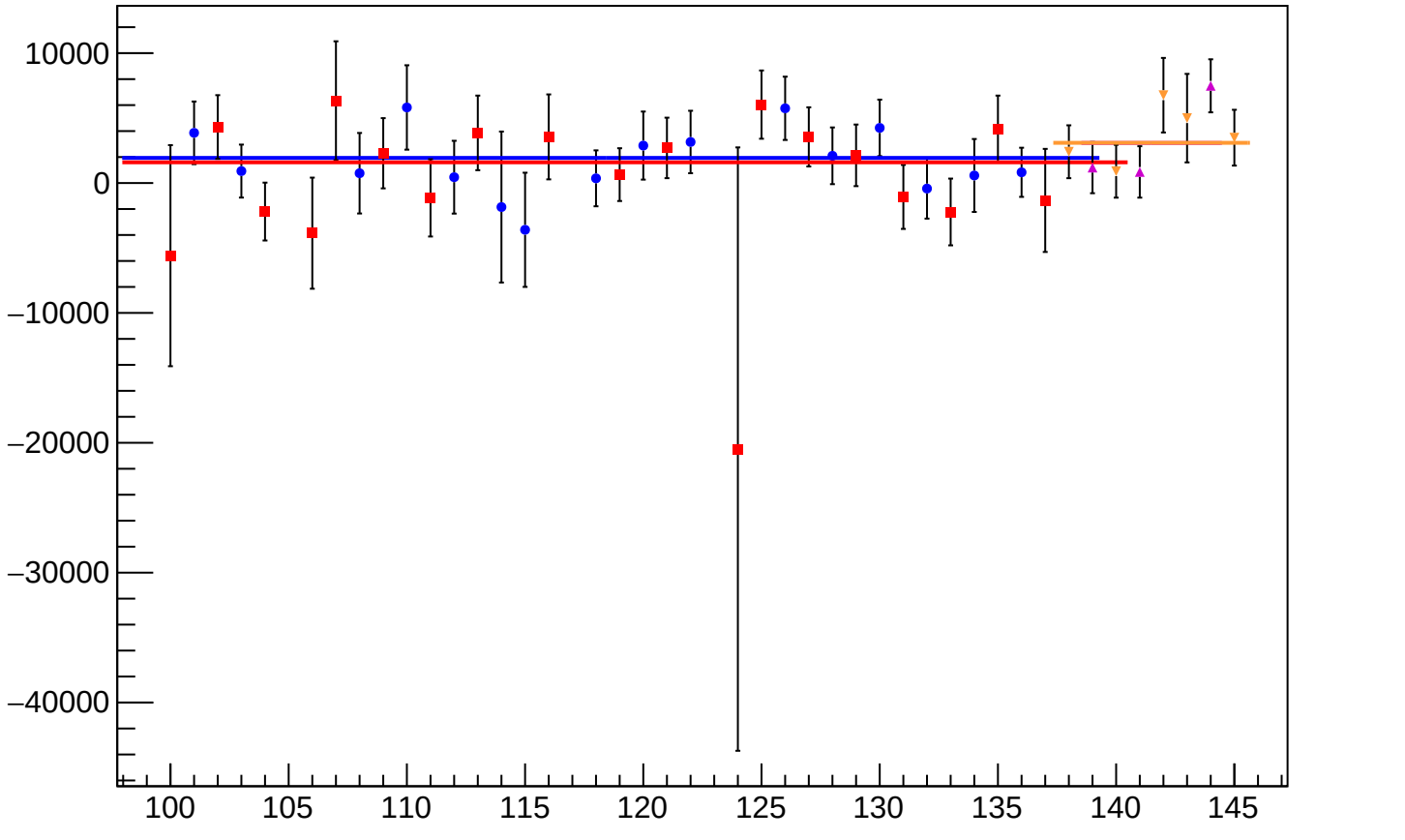
Left: 874.481+/-0.416 $\chi^2$/NDF: 8107342.1/7

Right: 804.723+/-0.244 $\chi^2$/NDF: 17538883.1/34

In: 1144.603+/-0.403 $\chi^2$/NDF:11510323.3/18

Out: 701.678+/-0.247 $\chi^2$/NDF:13279786.4/23

All: 822.619+/-0.211 $\chi^2$/NDF: 25667127.7/42




Right In: 1934.871+/-627.874 $\chi^2$/NDF: 10.9/15

Left Out: 3096.548+/-1049.976 $\chi^2$/NDF:3.2/4

Right Out: 1595.521+/-642.212 $\chi^2$/NDF: 19.4/18

Left In: 3085.068+/-1153.264 $\chi^2$/NDF:6.8/2

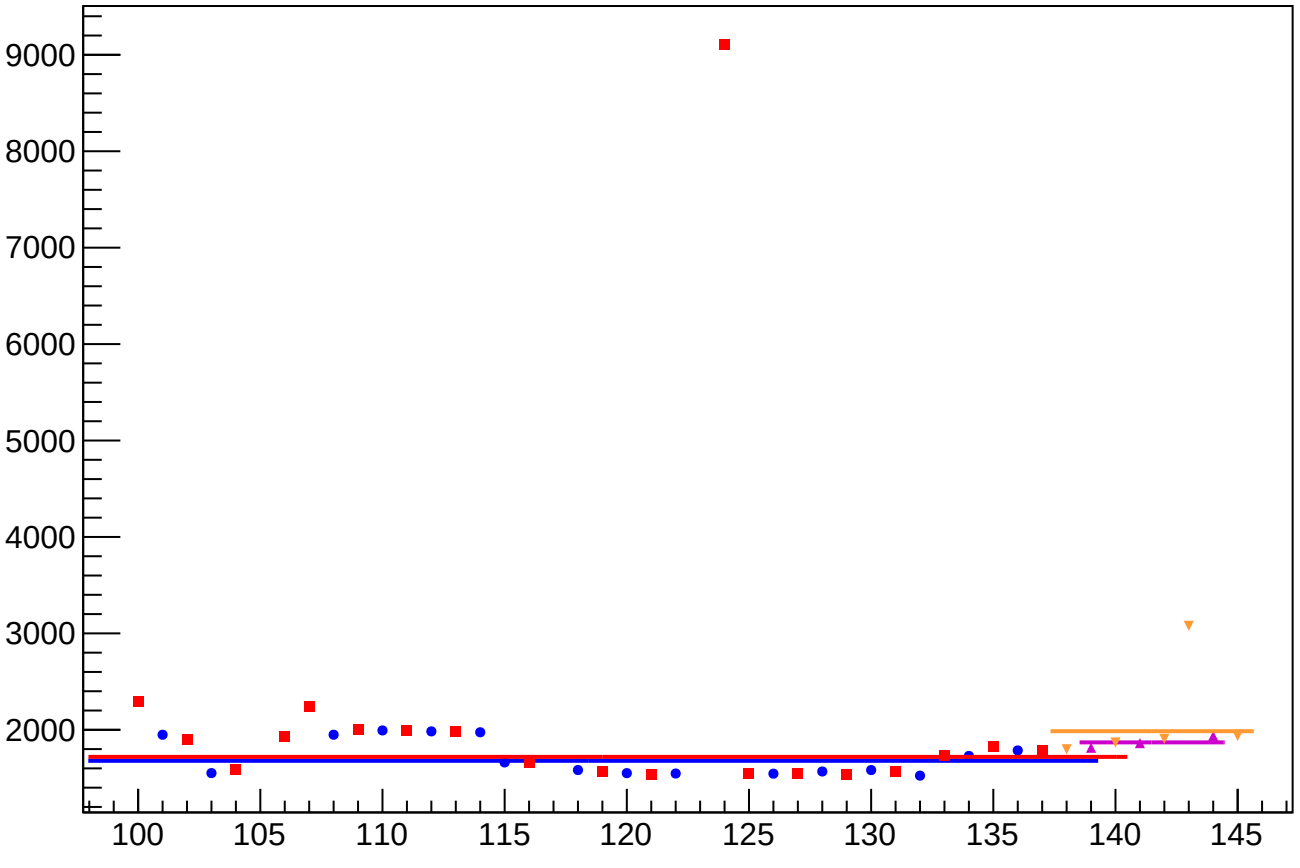
Left: 3091.345+/-776.398 $\chi^2$/NDF: 10.1/7

Right: 1769.026+/-448.957 $\chi^2$/NDF: 30.4/34

In: 2197.849+/-551.445 $\chi^2$/NDF:18.5/18

Out: 2004.184+/-547.858 $\chi^2$/NDF:24.1/23

All: 2100.384+/-388.656 $\chi^2$/NDF: 42.7/42




Right In: 1678.543+/-0.444 $\chi^2$/NDF: 141482.7/15

Left Out: 1985.779+/-0.742 $\chi^2$/NDF:231916.8/4

Right Out: 1719.146+/-0.452 $\chi^2$/NDF: 384922.3/18

Left In: 1869.637+/-0.815 $\chi^2$/NDF:3805.5/2

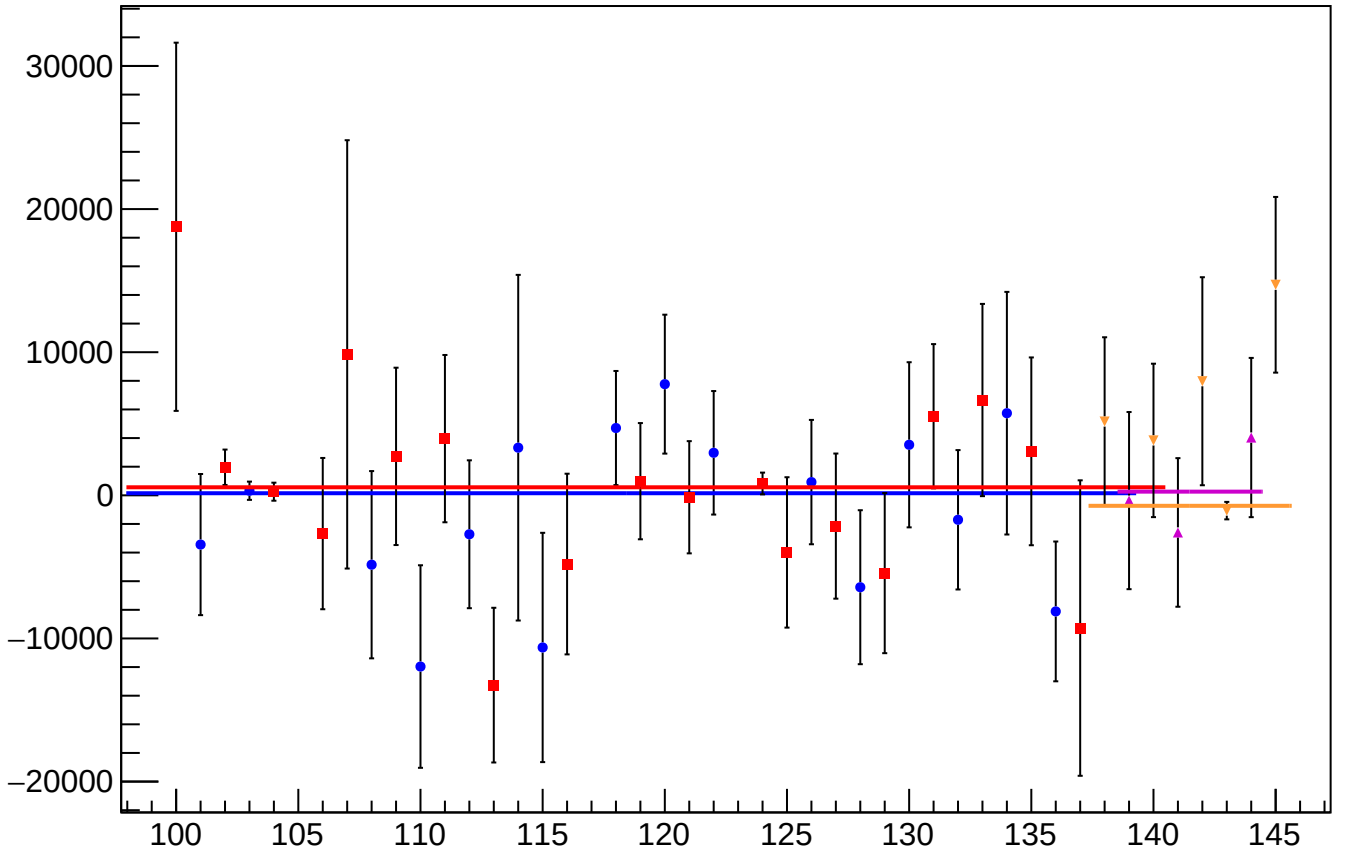
Left: 1933.141+/-0.549 $\chi^2$/NDF: 246813.0/7

Right: 1698.473+/-0.317 $\chi^2$/NDF: 530510.4/34

In: 1722.234+/-0.390 $\chi^2$/NDF:187645.5/18

Out: 1791.290+/-0.386 $\chi^2$/NDF:710915.0/23

All: 1757.094+/-0.274 $\chi^2$/NDF: 914393.5/42




Right In: 146.548+/-579.356 $\chi^2$/NDF: 15.8/15

Left Out: -732.586+/-598.325 $\chi^2$/NDF:9.8/4

Right Out: 561.454+/-430.621 $\chi^2$/NDF: 17.2/18

Left In: 257.668+/-3235.689 $\chi^2$/NDF:0.8/2

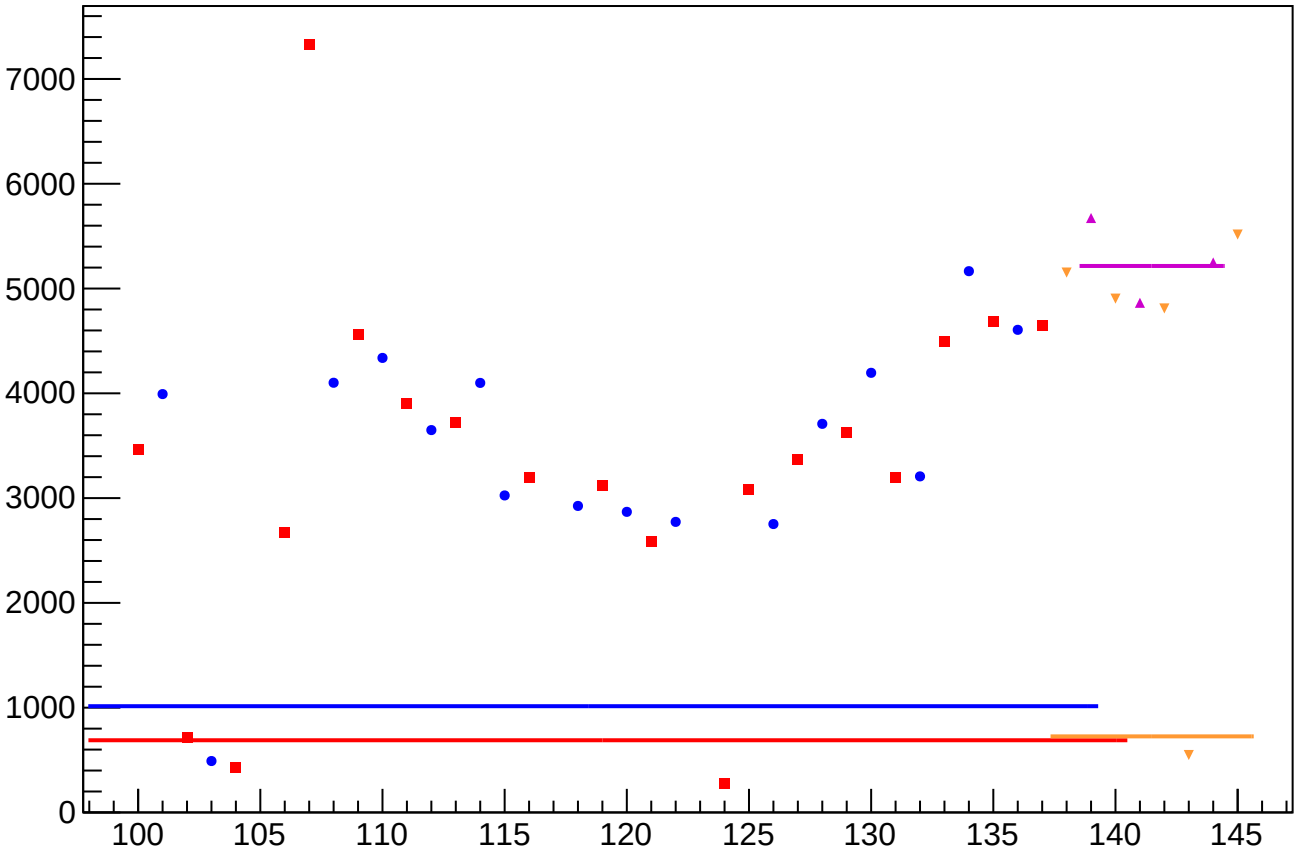
Left: -699.845+/-588.351 $\chi^2$/NDF: 10.7/7

Right: 413.806+/-345.609 $\chi^2$/NDF: 33.3/34

In: 150.000+/-570.287 $\chi^2$/NDF:16.6/18

Out: 119.887+/-349.512 $\chi^2$/NDF:30.1/23

All: 128.109+/-297.999 $\chi^2$/NDF: 46.7/42




Right In: 1014.094+/-0.410 $\chi^2$/NDF: 8223017.6/15

Left Out: 726.050+/-0.423 $\chi^2$/NDF:4364384.9/4

Right Out: 689.055+/-0.304 $\chi^2$/NDF: 8910364.4/18

Left In: 5215.431+/-2.288 $\chi^2$/NDF:20173.9/2

Left: 874.481+/-0.416 $\chi^2$/NDF: 8107342.1/7

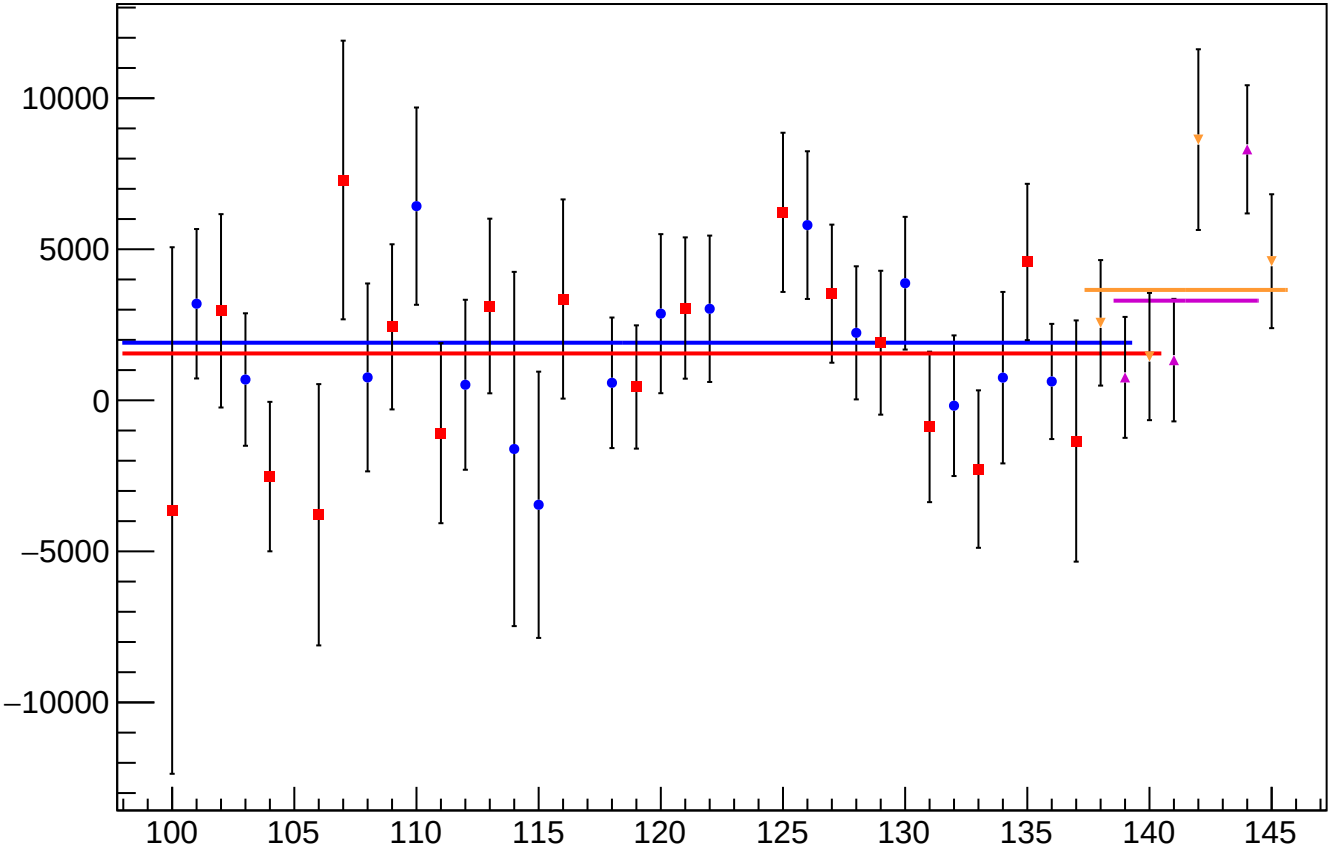
Right: 804.723+/-0.244 $\chi^2$/NDF: 17538883.1/34

In: 1144.603+/-0.403 $\chi^2$/NDF:11510323.3/18

Out: 701.678+/-0.247 $\chi^2$/NDF:13279786.4/23

All: 822.619+/-0.211 $\chi^2$/NDF: 25667127.7/42

# dit_asym_atl_avg_mean vs Slug, Sign Corrected




Right In: 1906.205+/-636.433 $\chi^2$/NDF: 10.2/15

Left Out: 3653.722+/-1137.596 $\chi^2$/NDF:4.3/3

Right Out: 1550.986+/-661.054 $\chi^2$/NDF: 17.5/17

Left In: 3298.170+/-1182.639 $\chi^2$/NDF:8.1/2

Left: 3482.846+/-819.863 $\chi^2$/NDF: 12.5/6

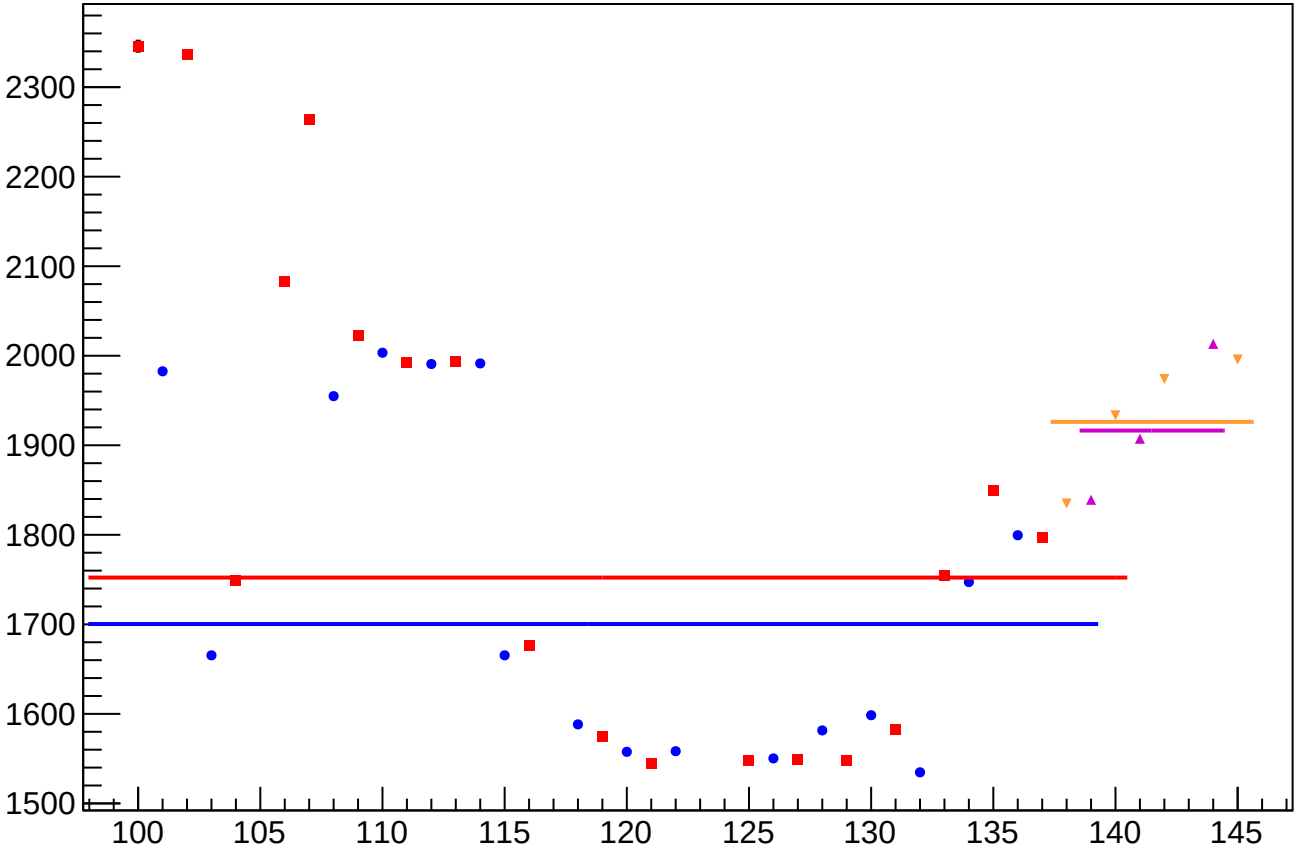
Right: 1735.334+/-458.483 $\chi^2$/NDF: 27.8/33

In: 2218.794+/-560.435 $\chi^2$/NDF:19.4/18

Out: 2081.788+/-571.560 $\chi^2$/NDF:24.3/21

All: 2151.637+/-400.163 $\chi^2$/NDF: 43.8/40

# dit_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1700.357+/-0.450 $\chi^2$/NDF: 135419.2/15

Left Out: 1926.174+/-0.804 $\chi^2$/NDF:6364.3/3

Right Out: 1752.239+/-0.466 $\chi^2$/NDF: 247952.8/17

Left In: 1916.441+/-0.836 $\chi^2$/NDF:7187.8/2

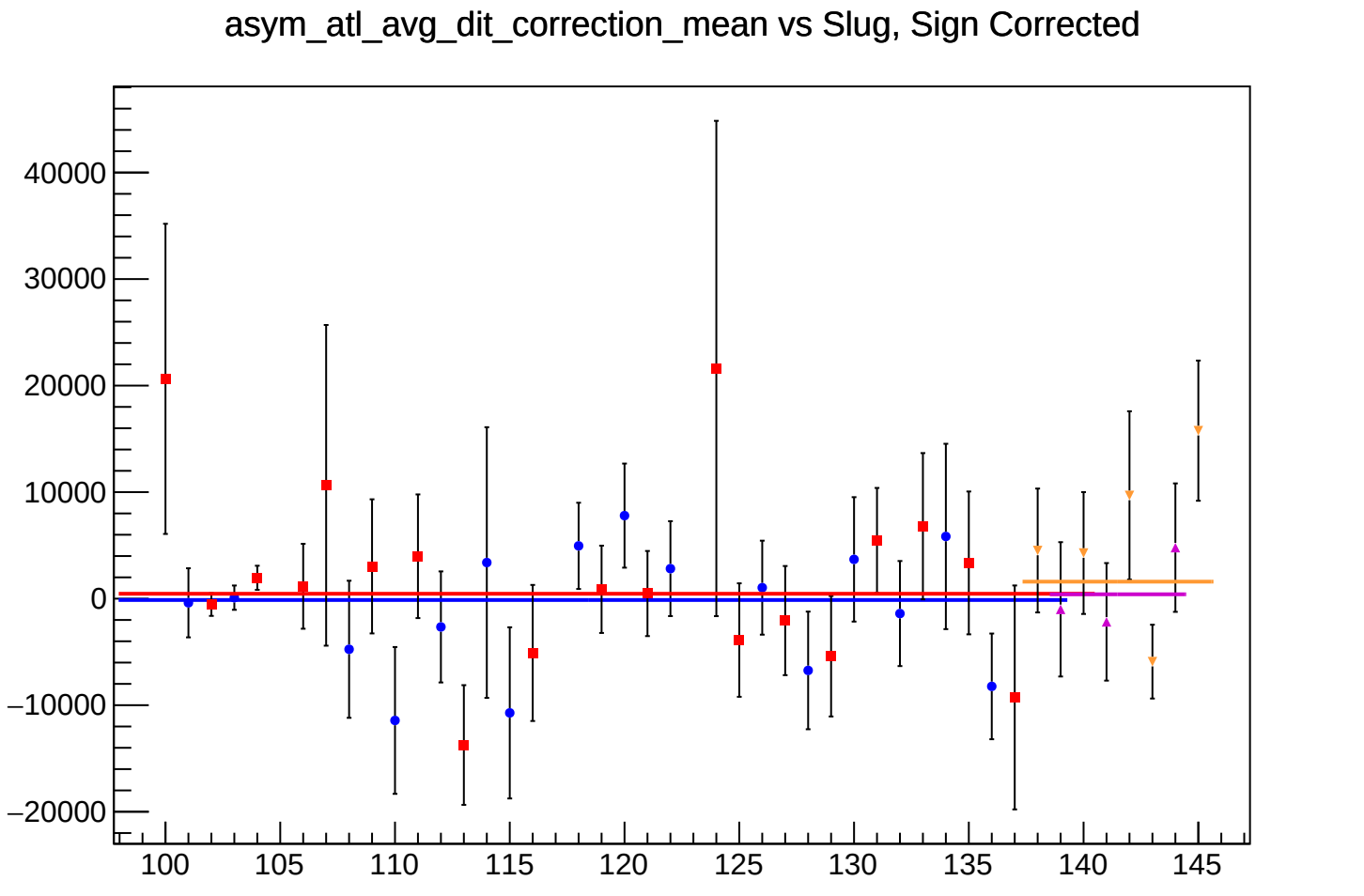
Left: 1921.496+/-0.580 $\chi^2$/NDF: 13622.4/6

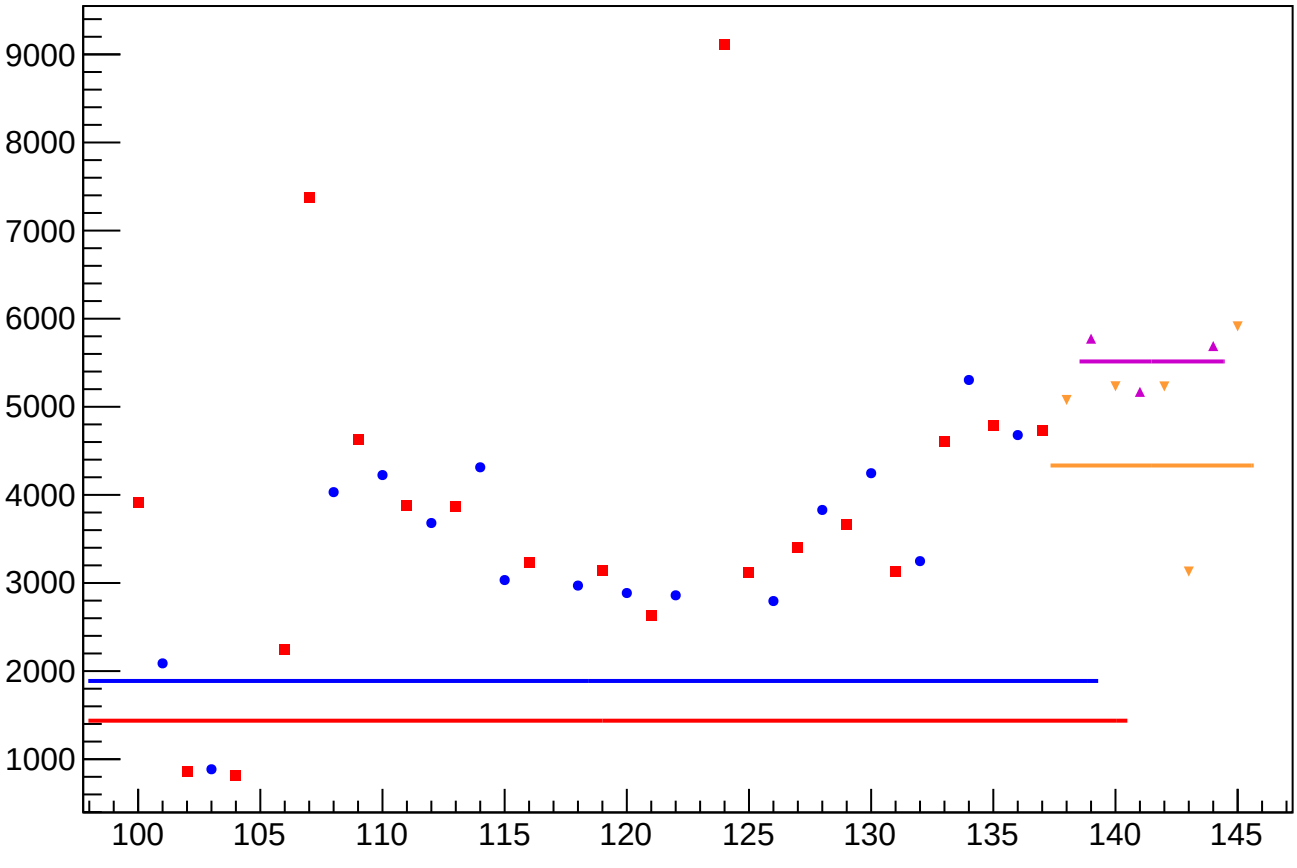
Right: 1725.373+/-0.324 $\chi^2$/NDF: 389780.4/33

In: 1748.882+/-0.396 $\chi^2$/NDF:194381.6/18

Out: 1795.996+/-0.403 $\chi^2$/NDF:289309.7/21

All: 1772.016+/-0.283 $\chi^2$/NDF: 490631.7/40


asym_atl_avg_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -125.468+/-867.645 χ²/NDF: 15.1/15
Left Out: 1597.086+/-2340.191 χ²/NDF:10.9/4
Right Out: 459.431+/-679.157 χ²/NDF: 18.5/18
Left In: 410.399+/-3419.336 χ²/NDF:0.8/2
Left: 1218.547+/-1931.207 χ²/NDF: 11.7/7
Right: 237.213+/-534.800 χ²/NDF: 33.9/34
In: -93.052+/-840.993 χ²/NDF:15.9/18
Out: 547.806+/-652.245 χ²/NDF:29.6/23
All: 307.109+/-515.403 χ²/NDF: 45.8/42




Right In: 1887.999+/-0.614 $\chi^2$/NDF: 4425691.6/15

Left Out: 4333.588+/-1.655 $\chi^2$/NDF:464603.3/4

Right Out: 1437.108+/-0.480 $\chi^2$/NDF: 5964193.5/18

Left In: 5514.607+/-2.418 $\chi^2$/NDF:12870.8/2

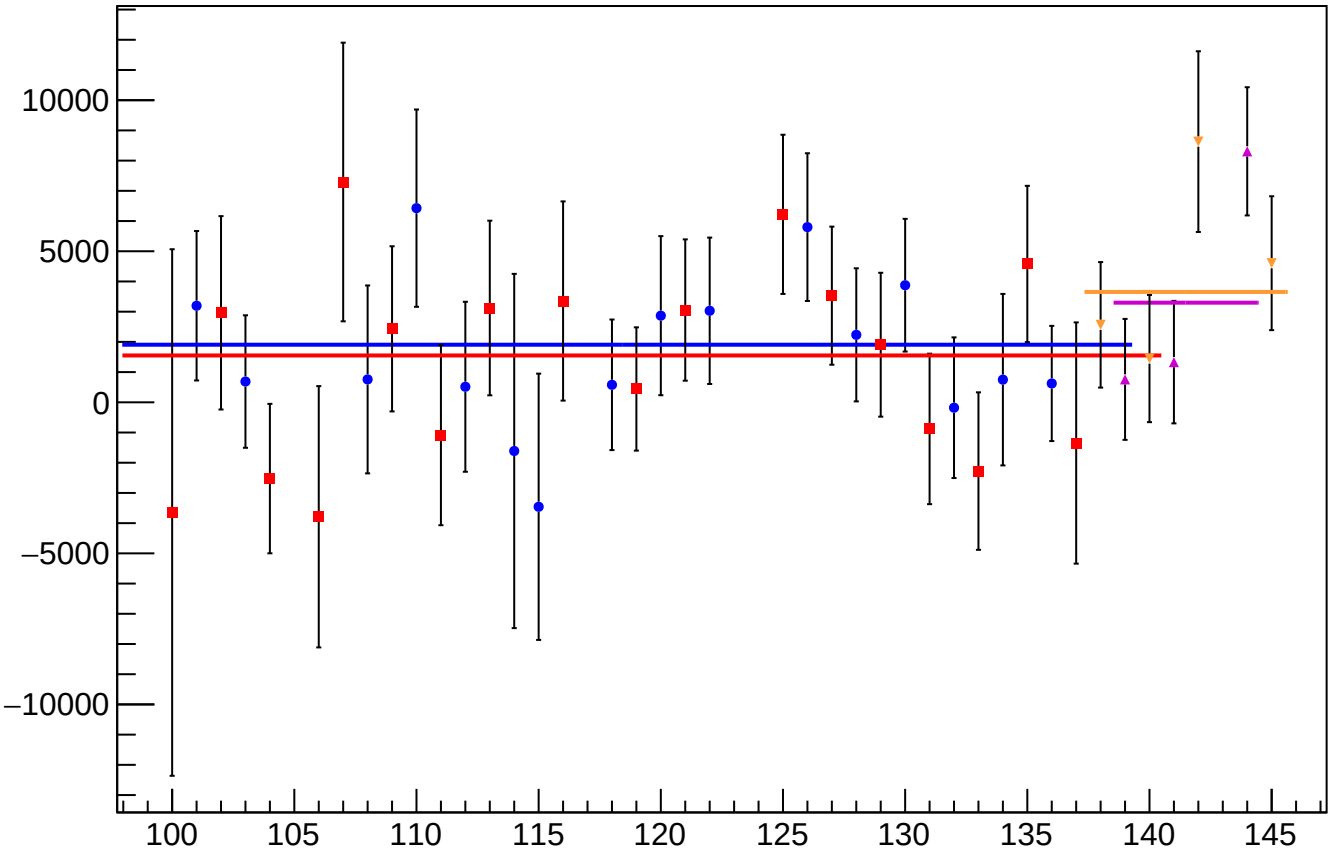
Left: 4710.319+/-1.366 $\chi^2$/NDF: 639959.8/7

Right: 1608.413+/-0.378 $\chi^2$/NDF: 10724797.8/34

In: 2107.381+/-0.595 $\chi^2$/NDF:6552285.7/18

Out: 1662.111+/-0.461 $\chi^2$/NDF:9254649.0/23

All: 1829.348+/-0.364 $\chi^2$/NDF: 16157012.3/4




Right In: 1906.203+/-636.433 $\chi^2$/NDF: 10.2/15

Left Out: 3653.745+/-1137.597 $\chi^2$/NDF:4.3/3

Right Out: 1550.983+/-661.054 $\chi^2$/NDF: 17.5/17

Left In: 3298.171+/-1182.640 $\chi^2$/NDF:8.1/2

Left: 3482.858+/-819.864 $\chi^2$/NDF: 12.5/6

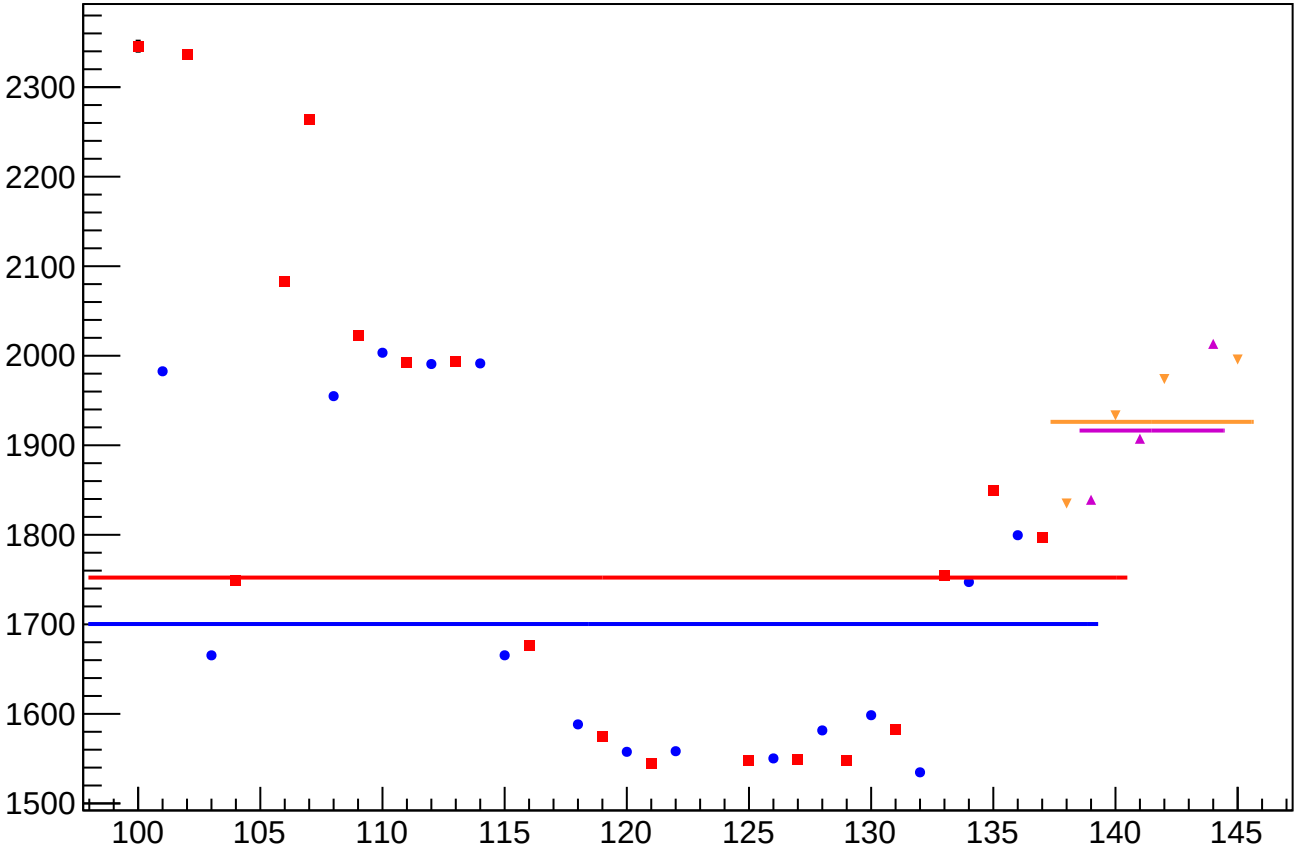
Right: 1735.331+/-458.483 $\chi^2$/NDF: 27.8/33

In: 2218.793+/-560.435 $\chi^2$/NDF:19.4/18

Out: 2081.791+/-571.560 $\chi^2$/NDF:24.3/21

All: 2151.638+/-400.163 $\chi^2$/NDF: 43.8/40

# eigen_dit_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1700.357+/-0.450 $\chi^2$/NDF: 135419.5/15

Left Out: 1926.175+/-0.804 $\chi^2$/NDF:6364.5/3

Right Out: 1752.238+/-0.466 $\chi^2$/NDF: 247952.3/17

Left In: 1916.443+/-0.836 $\chi^2$/NDF:7187.9/2

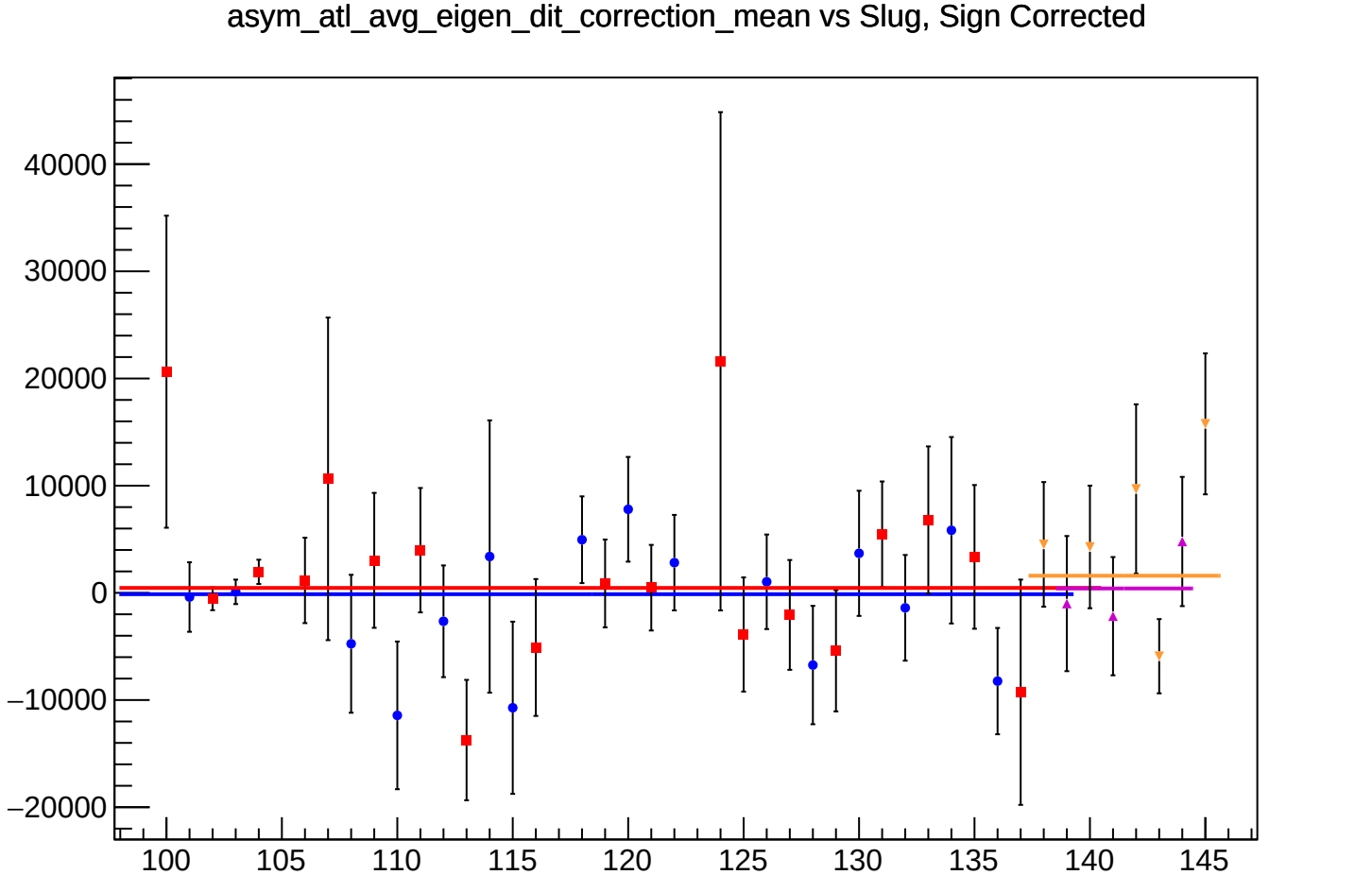
Left: 1921.498+/-0.580 $\chi^2$/NDF: 13622.8/6

Right: 1725.372+/-0.324 $\chi^2$/NDF: 389780.1/33

In: 1748.882+/-0.396 $\chi^2$/NDF:194382.7/18

Out: 1795.996+/-0.403 $\chi^2$/NDF:289310.3/21

All: 1772.017+/-0.283 $\chi^2$/NDF: 490633.3/40




Right In: -125.464+/-867.639 $\chi^2$/NDF: 15.1/15

Left Out: 1597.083+/-2340.194 $\chi^2$/NDF:10.9/4

Right Out: 459.430+/-679.152 $\chi^2$/NDF: 18.5/18

Left In: 410.401+/-3419.344 $\chi^2$/NDF:0.8/2

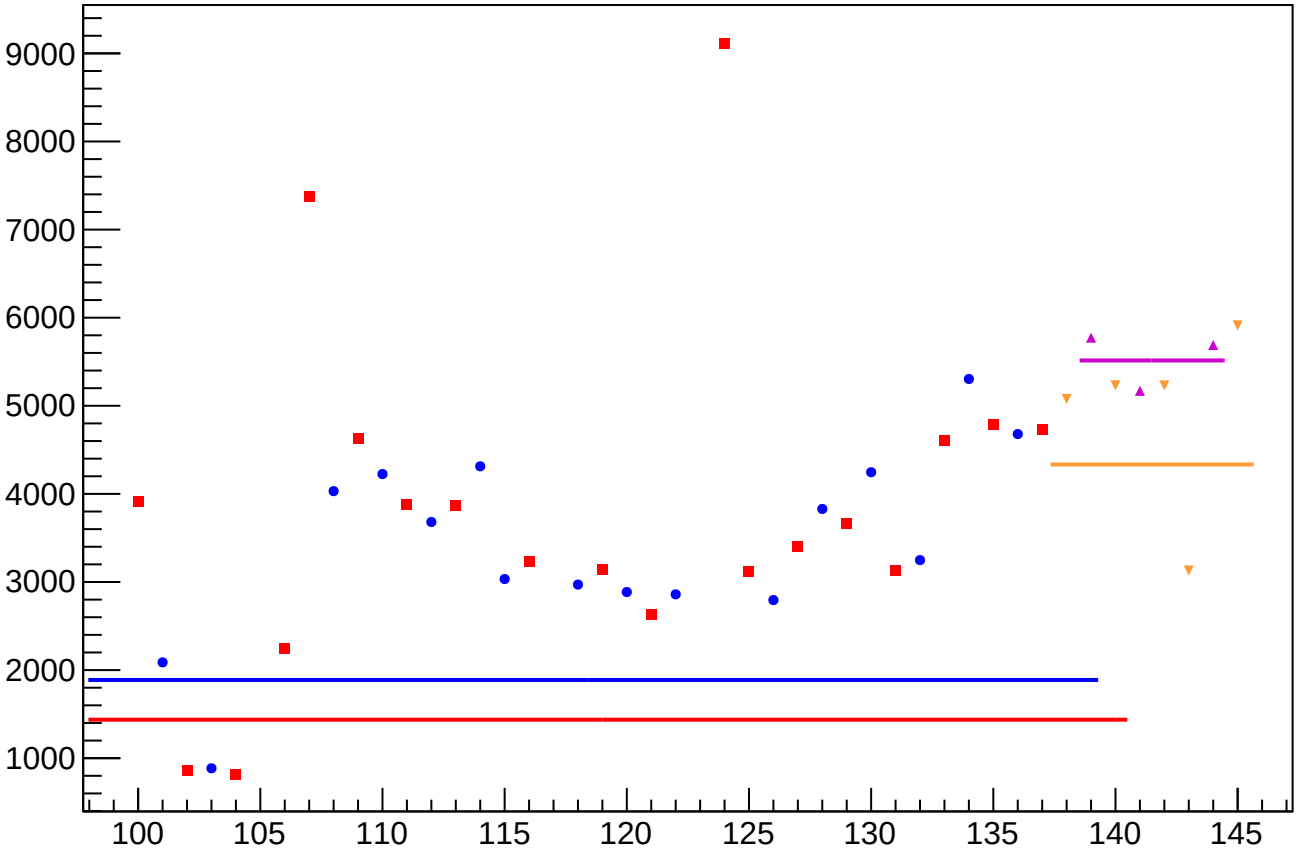
Left: 1218.546+/-1931.210 $\chi^2$/NDF: 11.7/7

Right: 237.214+/-534.797 $\chi^2$/NDF: 33.9/34

In: -93.048+/-840.988 $\chi^2$/NDF:15.9/18

Out: 547.803+/-652.240 $\chi^2$/NDF:29.6/23

All: 307.109+/-515.400 $\chi^2$/NDF: 45.8/42




Right In: 1887.982+/-0.614 $\chi^2$/NDF: 4425728.6/15

Left Out: 4333.593+/-1.655 $\chi^2$/NDF:464607.8/4

Right Out: 1437.095+/-0.480 $\chi^2$/NDF: 5964228.2/18

Left In: 5514.620+/-2.418 $\chi^2$/NDF:12871.2/2

Left: 4710.326+/-1.366 $\chi^2$/NDF: 639966.2/7

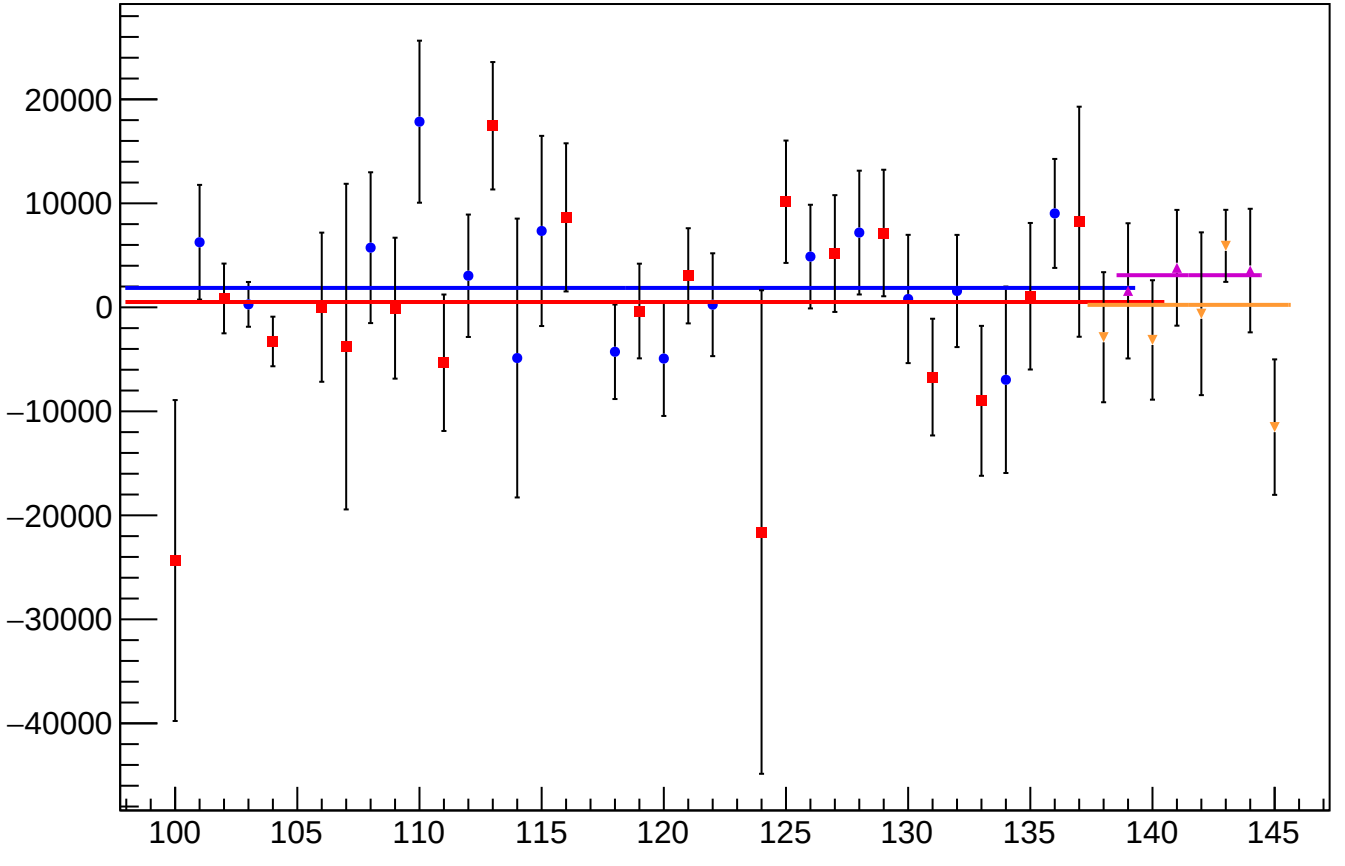
Right: 1608.398+/-0.378 $\chi^2$/NDF: 10724869.8/34

In: 2107.363+/-0.595 $\chi^2$/NDF:6552349.4/18

Out: 1662.096+/-0.461 $\chi^2$/NDF:9254719.7/23

All: 1829.331+/-0.364 $\chi^2$/NDF: 16157147.2/4

# asym_atl_avg_mean vs Slug, Sign Corrected




Right In: 1866.618+/-1259.187 $\chi^2$/NDF: 13.8/15

Left Out: 237.577+/-2362.818 $\chi^2$/NDF:6.5/4

Right Out: 512.528+/-1241.513 $\chi^2$/NDF: 24.7/18

Left In: 3089.985+/-3444.750 $\chi^2$/NDF:0.1/2

Left: 1150.211+/-1948.499 $\chi^2$/NDF: 7.1/7

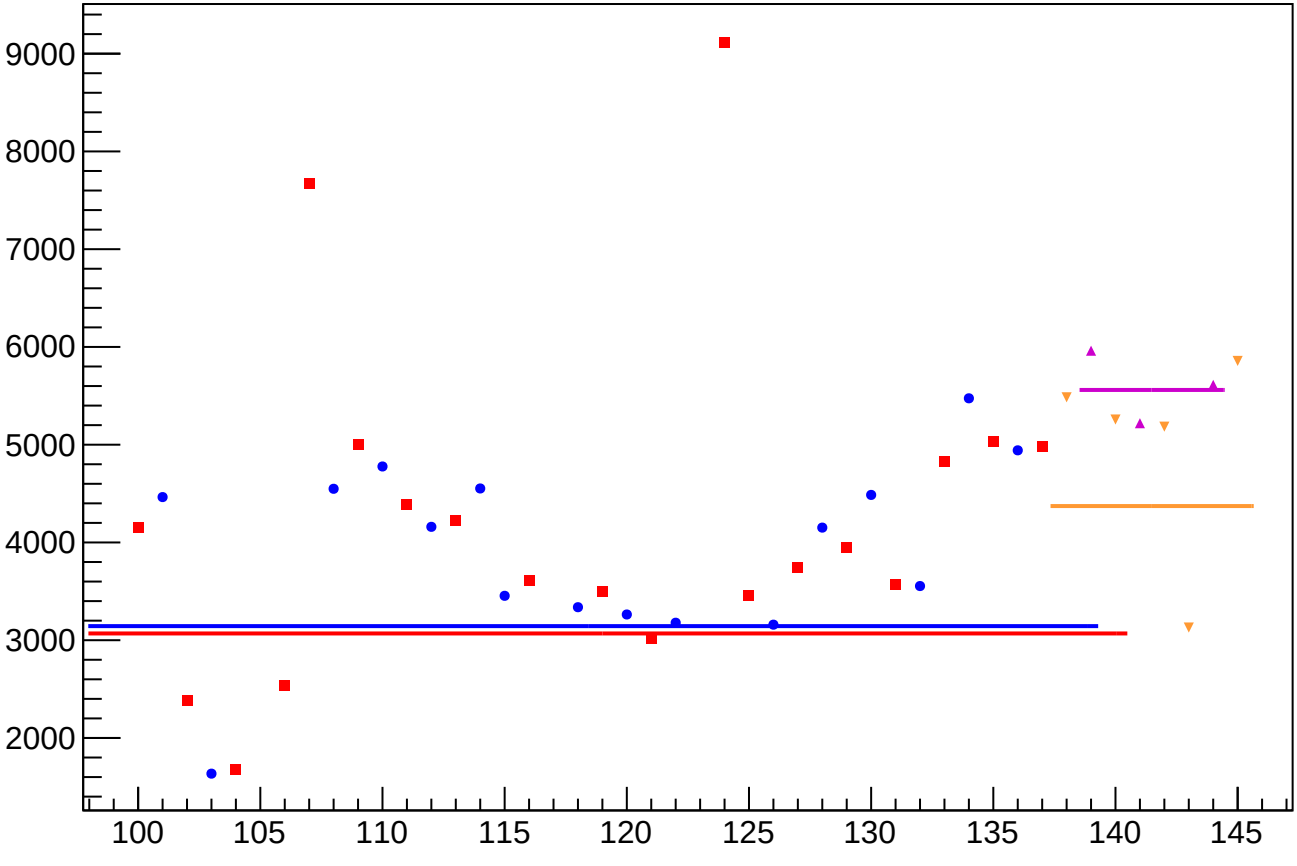
Right: 1180.003+/-884.065 $\chi^2$/NDF: 39.1/34

In: 2010.815+/-1182.652 $\chi^2$/NDF:14.0/18

Out: 453.042+/-1099.035 $\chi^2$/NDF:31.2/23

All: 1174.917+/-805.075 $\chi^2$/NDF: 46.2/42

# asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 3144.136+/-0.890 $\chi^2$/NDF: 1883139.2/15

Left Out: 4372.288+/-1.671 $\chi^2$/NDF:493567.8/4

Right Out: 3069.098+/-0.864 $\chi^2$/NDF: 1881644.6/18

Left In: 5560.071+/-2.436 $\chi^2$/NDF:15257.6/2

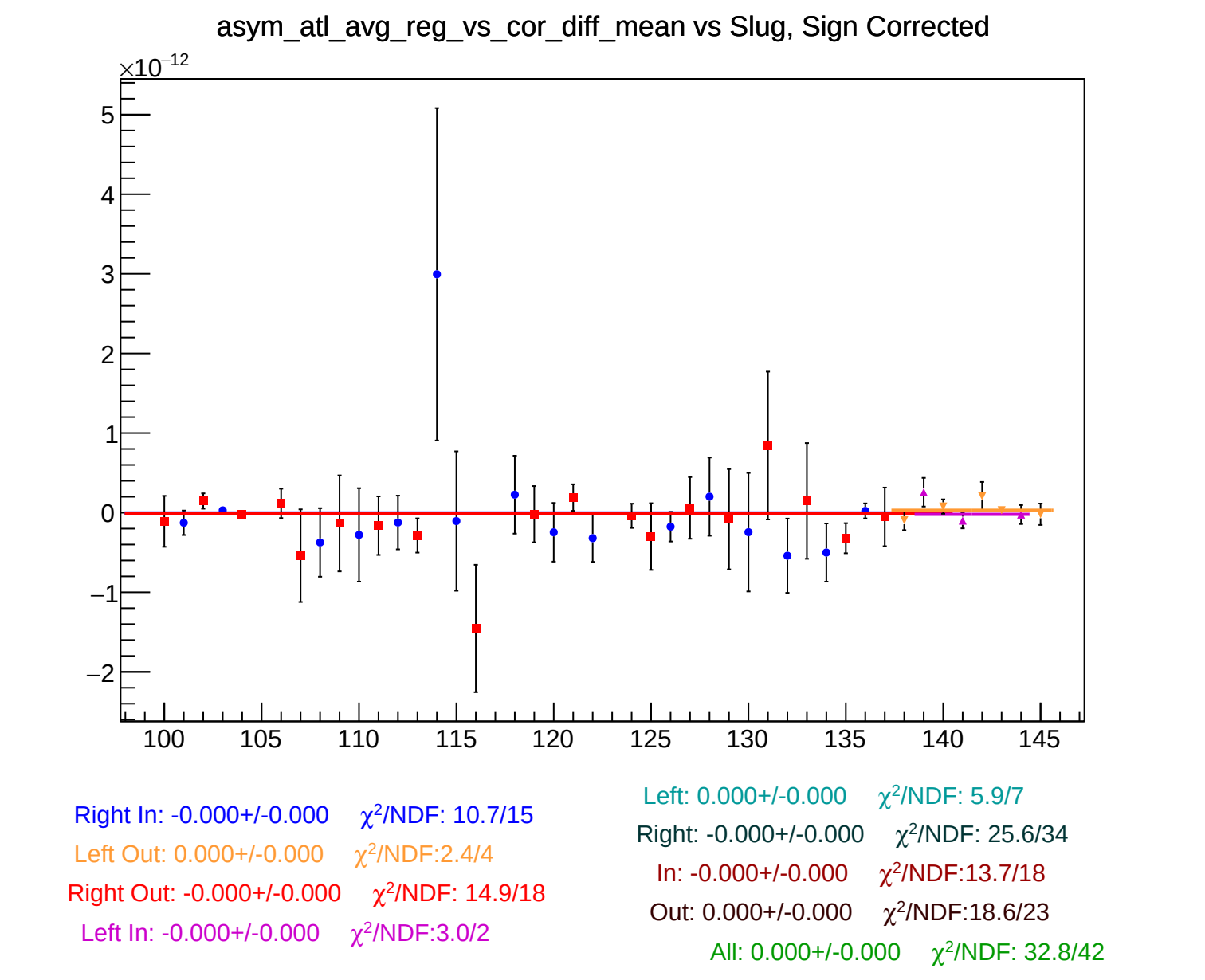
Left: 4752.322+/-1.378 $\chi^2$/NDF: 670532.2/7

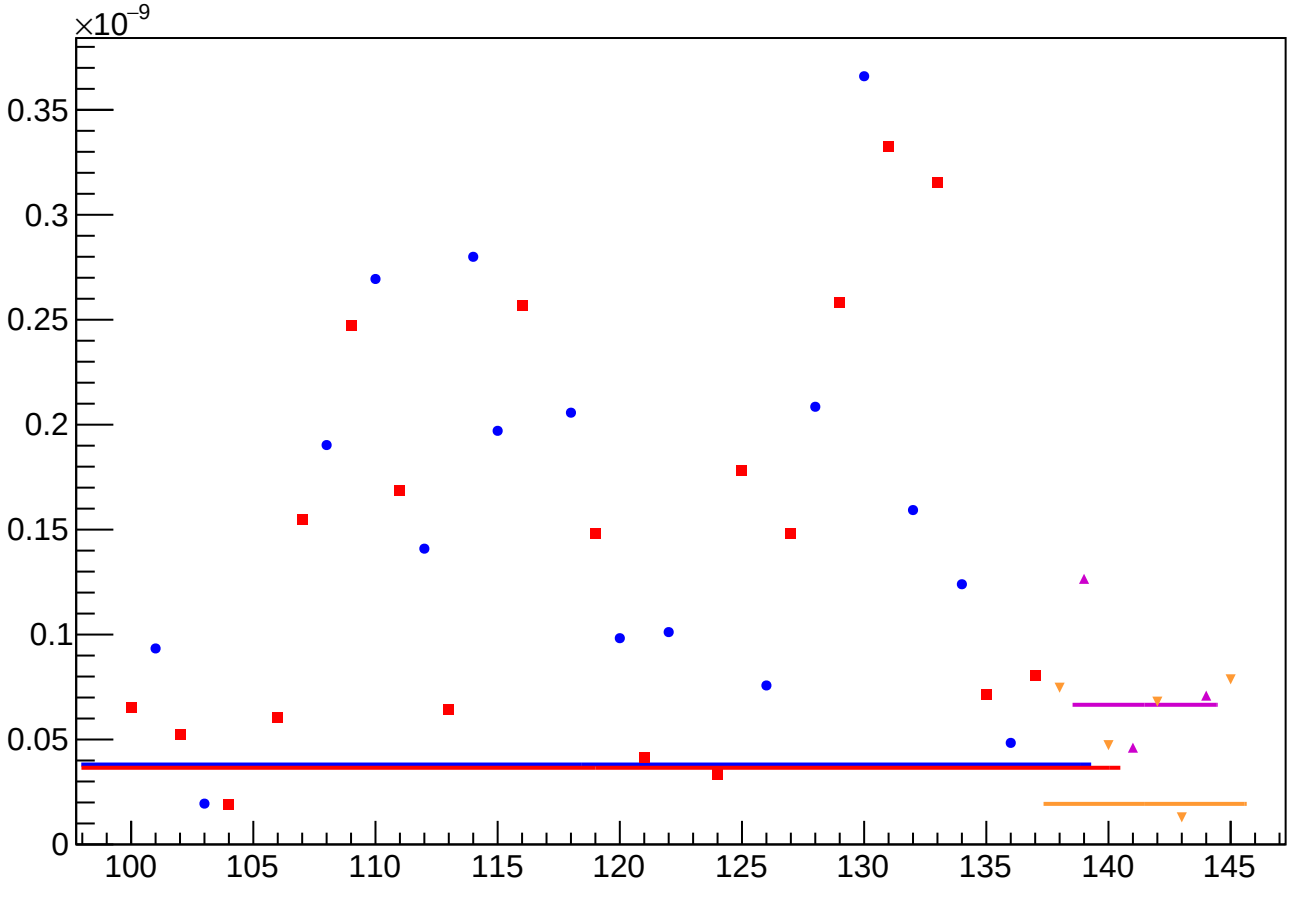
Right: 3105.498+/-0.620 $\chi^2$/NDF: 3768440.9/34

In: 3428.898+/-0.836 $\chi^2$/NDF:2766194.8/18

Out: 3344.169+/-0.768 $\chi^2$/NDF:2855189.6/23

All: 3382.913+/-0.565 $\chi^2$/NDF: 5626955.8/42


asym_atl_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
5
4
3
2
1
0
−1
−2
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 10.7/15
Left Out: 0.000+/-0.000 χ²/NDF:2.4/4
Right Out: -0.000+/-0.000 χ²/NDF: 14.9/18
Left In: -0.000+/-0.000 χ²/NDF:3.0/2
Left: 0.000+/-0.000 χ²/NDF: 5.9/7
Right: -0.000+/-0.000 χ²/NDF: 25.6/34
In: -0.000+/-0.000 χ²/NDF:13.7/18
Out: 0.000+/-0.000 χ²/NDF:18.6/23
All: 0.000+/-0.000 χ²/NDF: 32.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2888502.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1275403.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2683451.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:312606.2/2

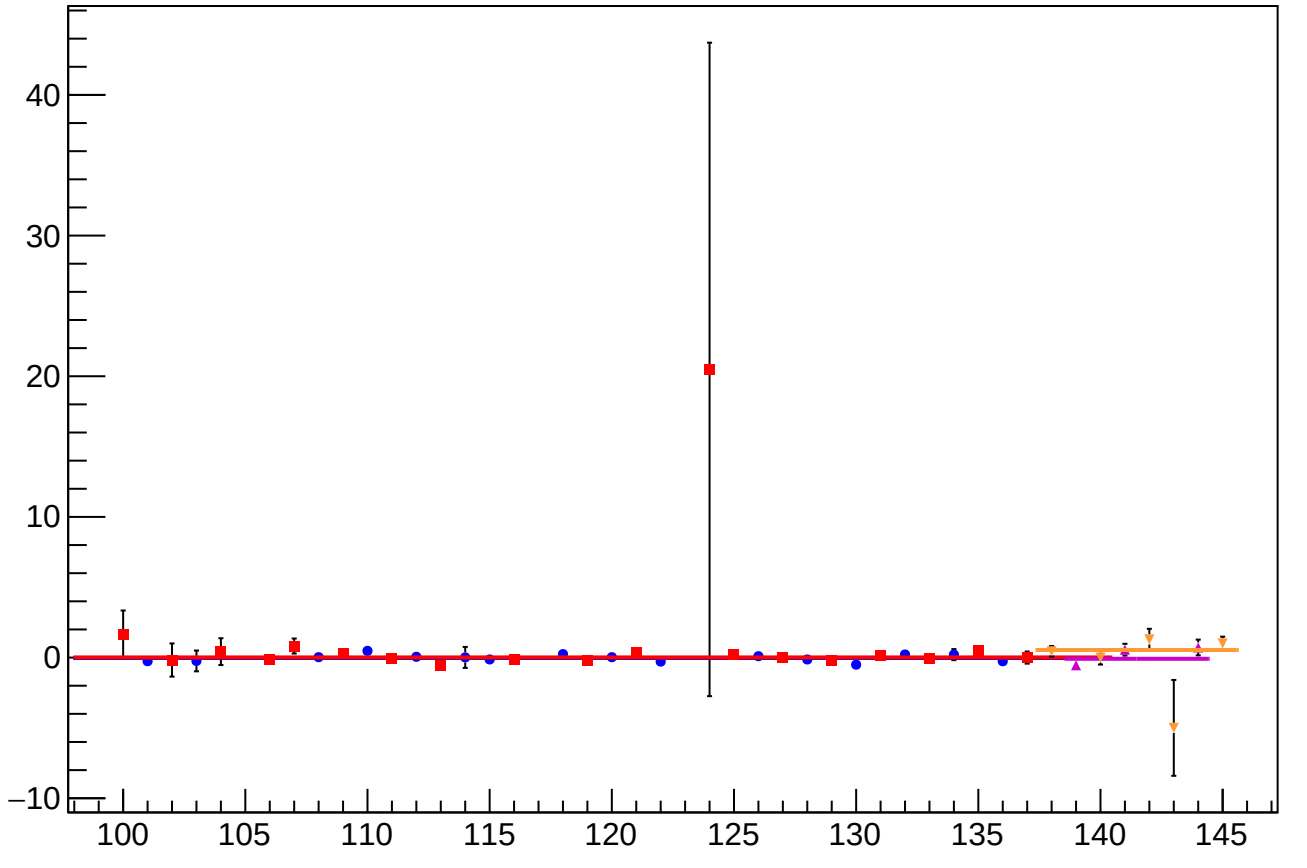
Left: 0.000+/-0.000 $\chi^2$/NDF: 2427807.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 5574117.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:3471629.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4344779.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8384564.6/42




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: 0.540+/-0.240 $\chi^2$/NDF:5.8/4

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.086+/-0.212 $\chi^2$/NDF:7.3/2

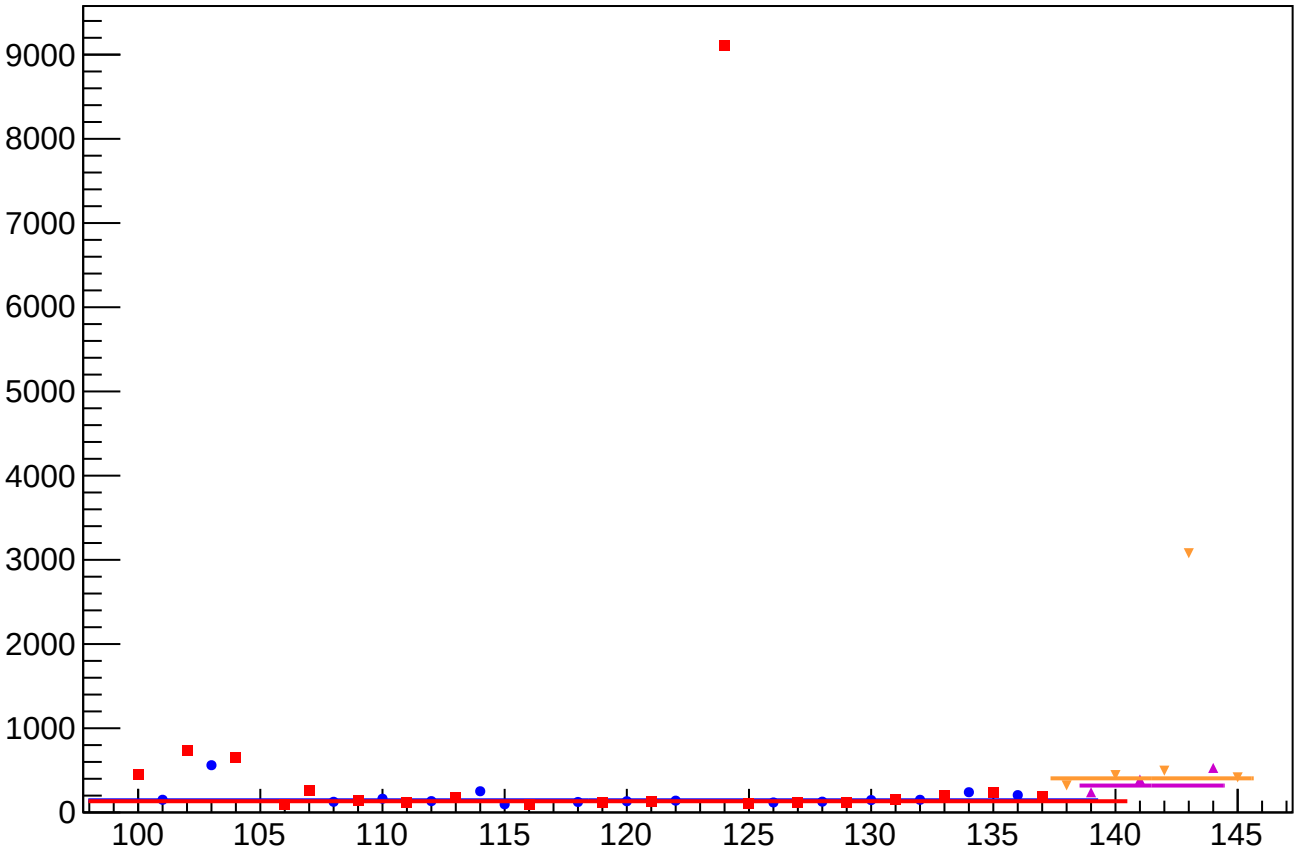
Left: 0.188+/-0.159 $\chi^2$/NDF: 16.9/7

Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.033+/-0.056 $\chi^2$/NDF:24.6/18

Out: 0.038+/-0.055 $\chi^2$/NDF:32.2/23

All: 0.003+/-0.039 $\chi^2$/NDF: 57.6/42




Right In: 144.291+/-0.041 $\chi^2$/NDF: 1128779.2/15

Left Out: 405.124+/-0.170 $\chi^2$/NDF:1373181.7/4

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220645.6/18

Left In: 319.486+/-0.150 $\chi^2$/NDF:507193.4/2

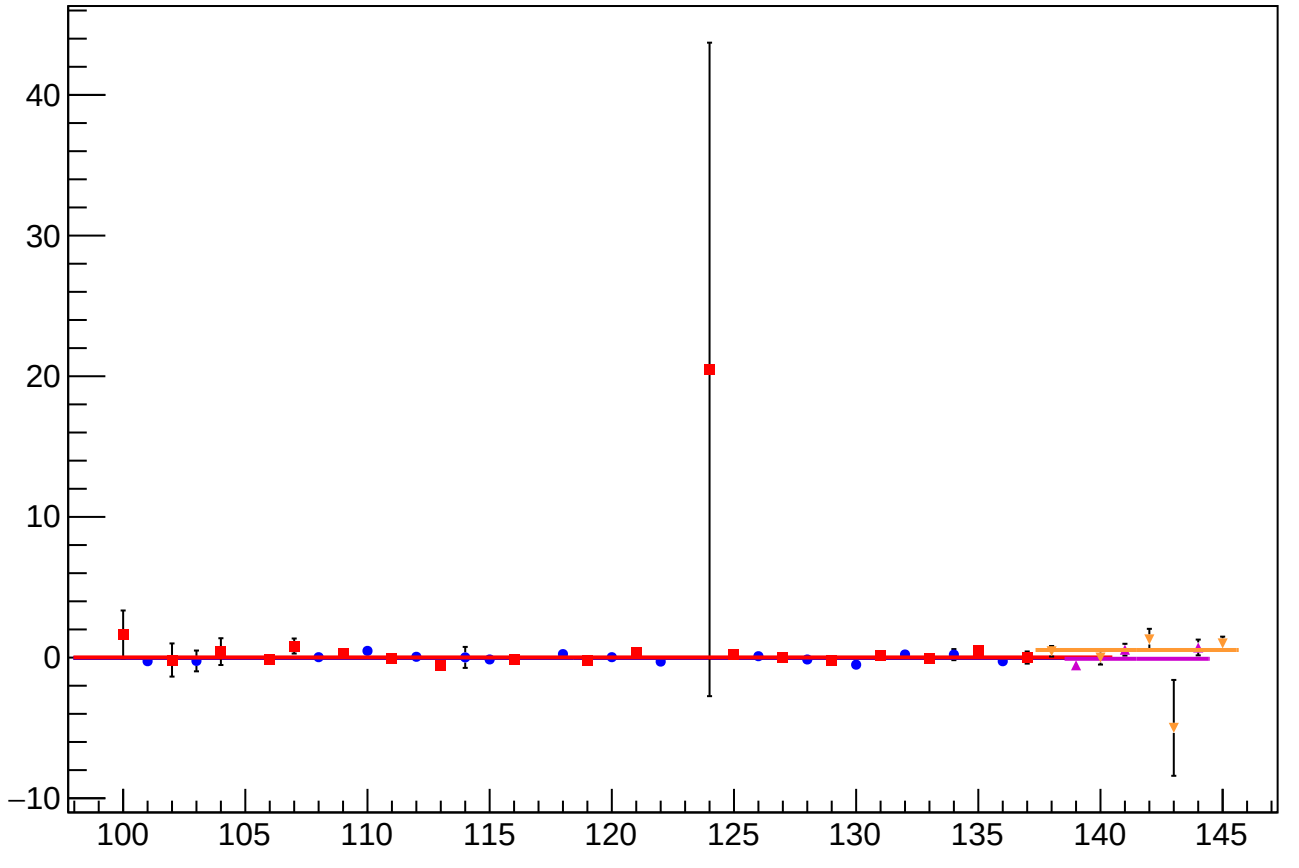
Left: 356.978+/-0.112 $\chi^2$/NDF: 2023263.4/7

Right: 138.645+/-0.029 $\chi^2$/NDF: 3386693.8/34

In: 156.424+/-0.039 $\chi^2$/NDF:2907321.2/18

Out: 147.509+/-0.039 $\chi^2$/NDF:6021013.0/23

All: 151.904+/-0.028 $\chi^2$/NDF: 8954228.4/42




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: 0.540+/-0.240 $\chi^2$/NDF:5.8/4

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.086+/-0.212 $\chi^2$/NDF:7.3/2

Left: 0.188+/-0.159 $\chi^2$/NDF: 16.9/7

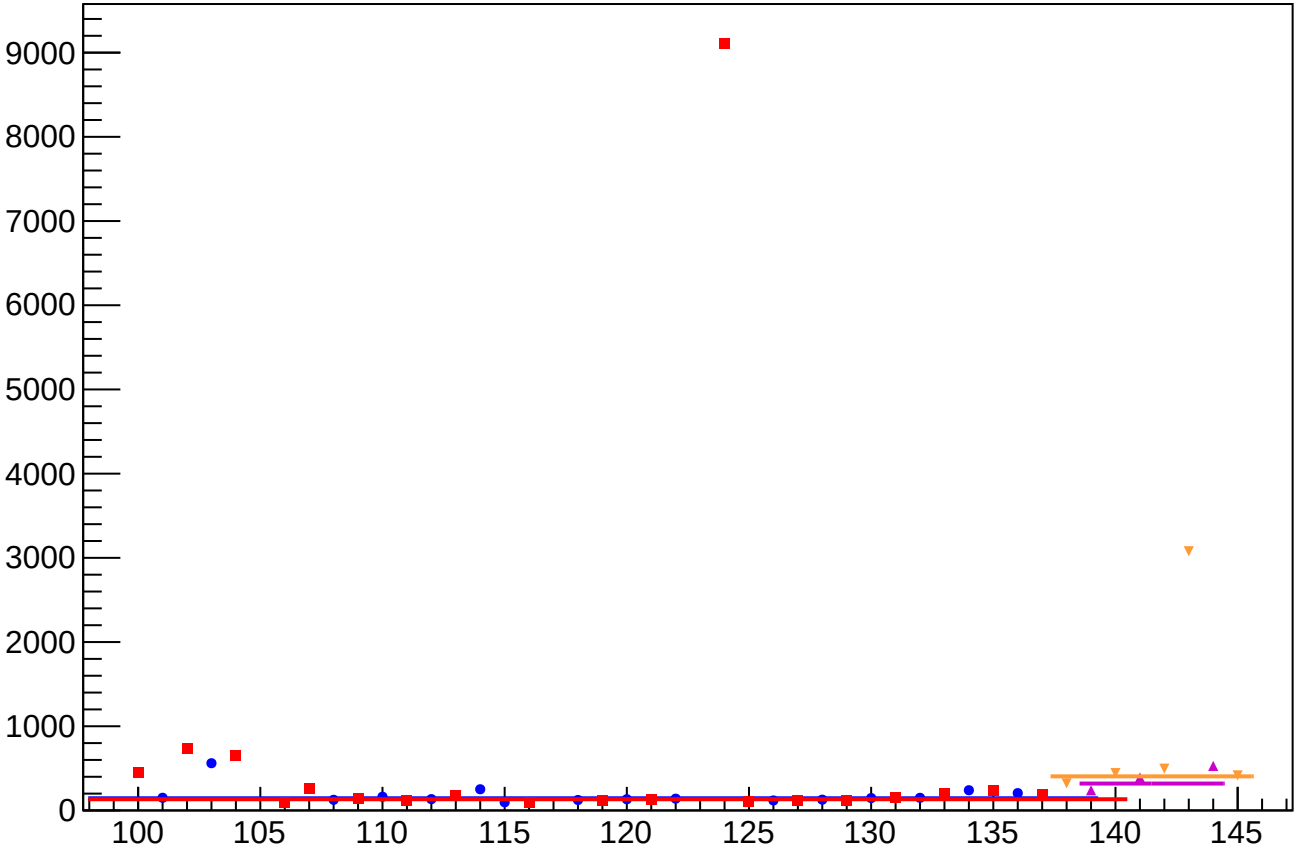
Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.033+/-0.056 $\chi^2$/NDF:24.6/18

Out: 0.038+/-0.055 $\chi^2$/NDF:32.2/23

All: 0.003+/-0.039 $\chi^2$/NDF: 57.6/42

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 144.291+/-0.041 $\chi^2$/NDF: 1128779.2/15

Left Out: 405.124+/-0.170 $\chi^2$/NDF:1373181.7/4

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220645.6/18

Left In: 319.486+/-0.150 $\chi^2$/NDF:507193.4/2

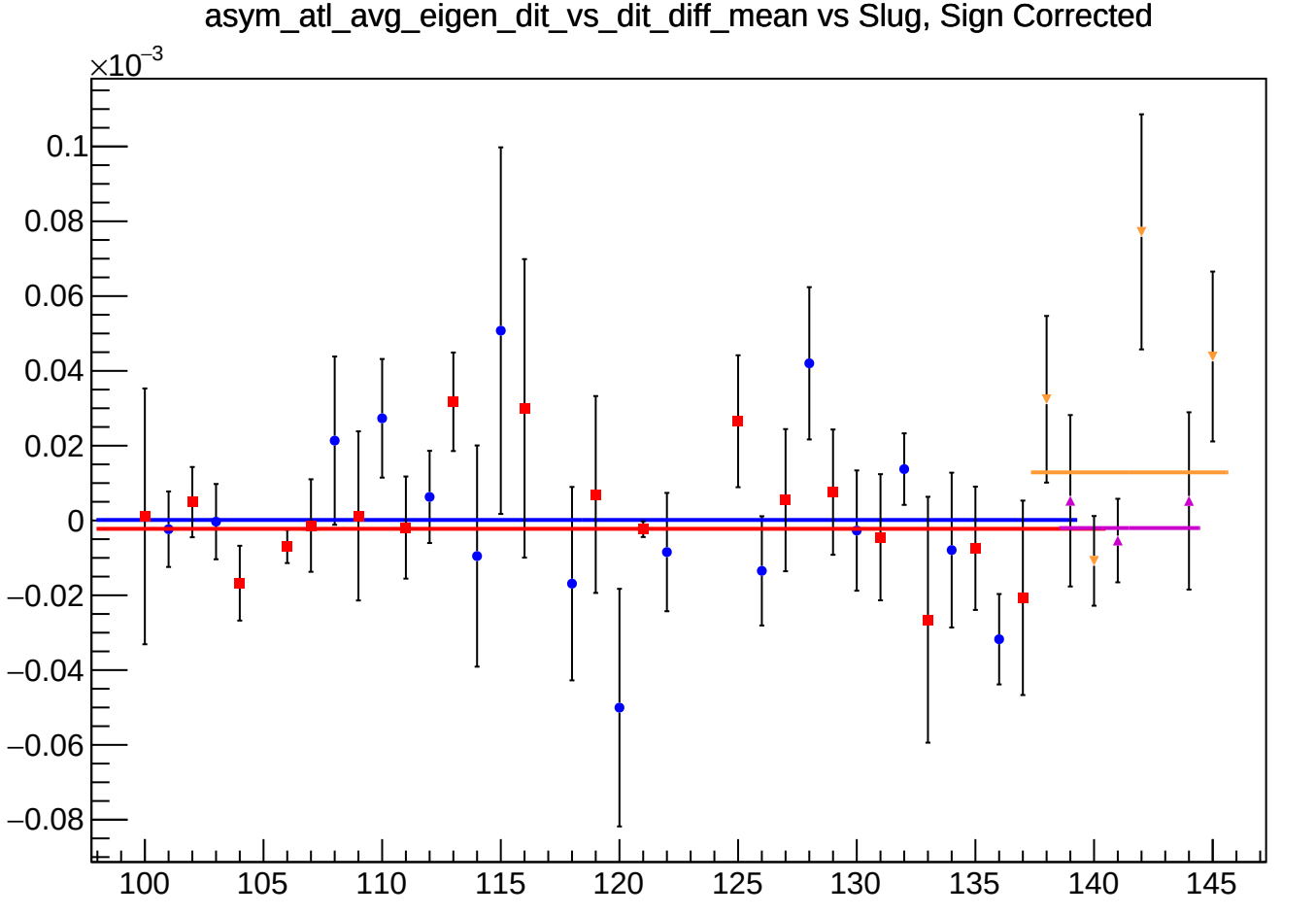
Left: 356.978+/-0.112 $\chi^2$/NDF: 2023263.4/7

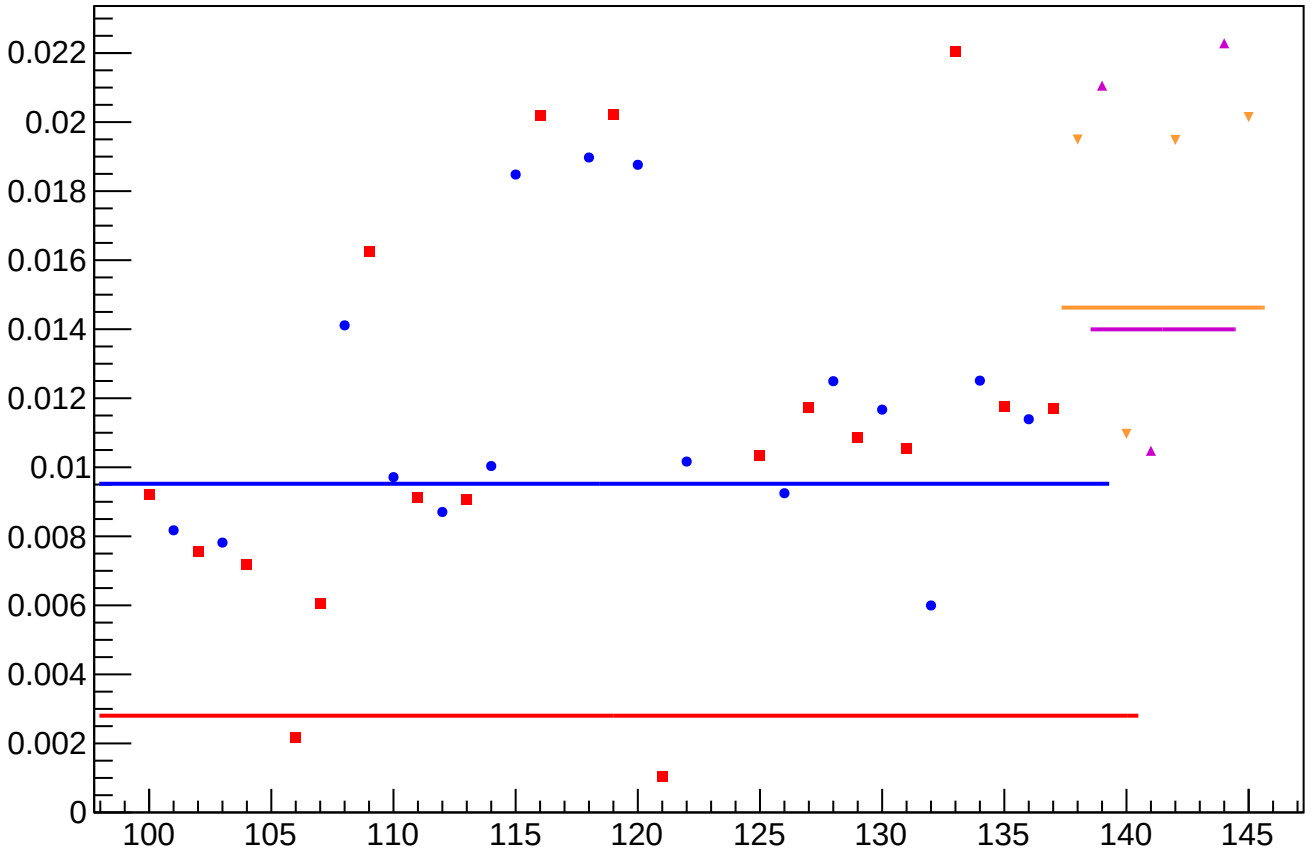
Right: 138.645+/-0.029 $\chi^2$/NDF: 3386693.8/34

In: 156.424+/-0.039 $\chi^2$/NDF:2907321.2/18

Out: 147.509+/-0.039 $\chi^2$/NDF:6021013.0/23

All: 151.904+/-0.028 $\chi^2$/NDF: 8954228.4/42


asym_atl_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 22.8/15
Left Out: 0.000+/-0.000 χ²/NDF:10.7/3
Right Out: -0.000+/-0.000 χ²/NDF: 15.6/17
Left In: -0.000+/-0.000 χ²/NDF:0.3/2
Left: 0.000+/-0.000 χ²/NDF: 12.3/6
Right: -0.000+/-0.000 χ²/NDF: 38.7/33
In: -0.000+/-0.000 χ²/NDF:23.1/18
Out: -0.000+/-0.000 χ²/NDF:28.9/21
All: -0.000+/-0.000 χ²/NDF: 52.2/40




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1132946.4/15

Left Out: 0.015+/-0.000 $\chi^2$/NDF:447383.6/3

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 8568874.3/17

Left In: 0.014+/-0.000 $\chi^2$/NDF:632886.8/2

Left: 0.014+/-0.000 $\chi^2$/NDF: 1084961.7/6

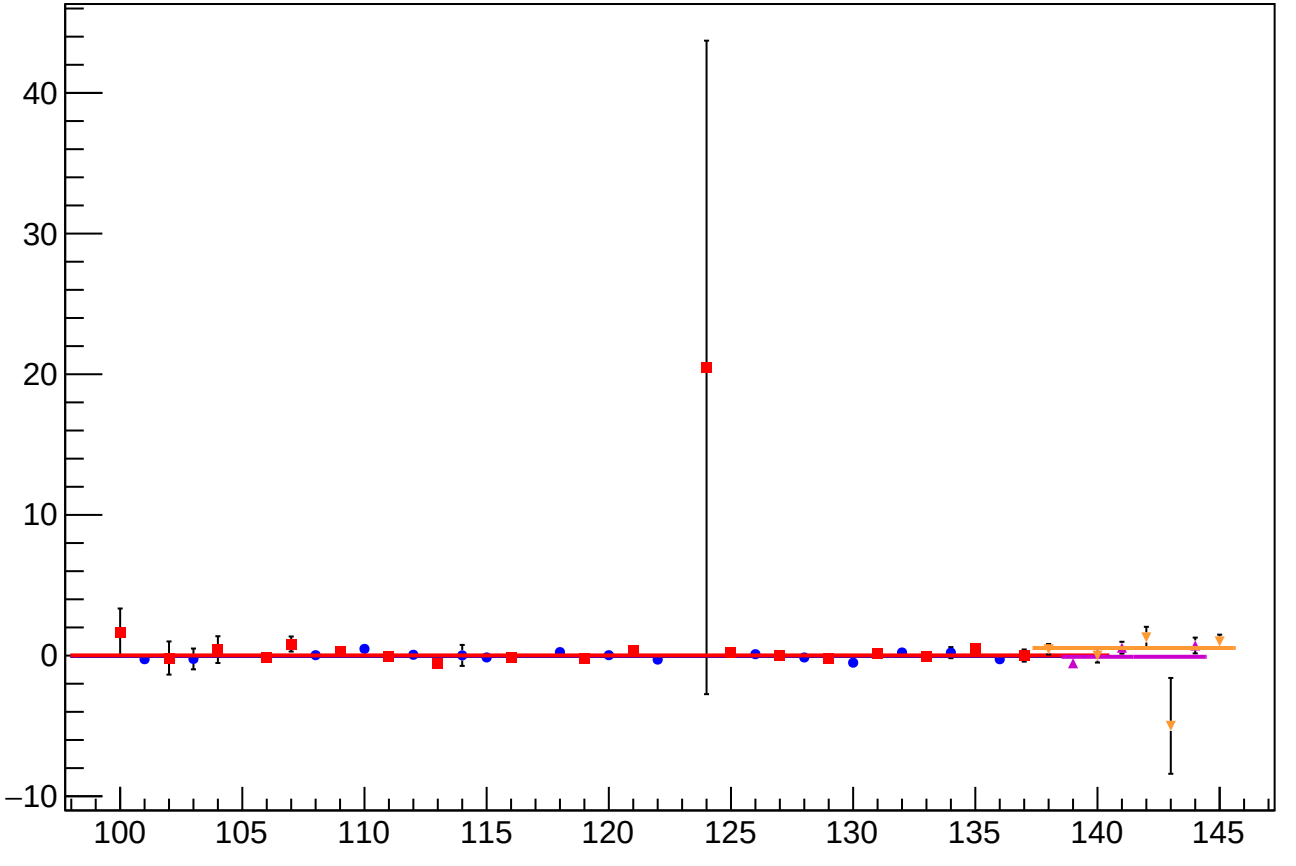
Right: 0.004+/-0.000 $\chi^2$/NDF: 15020072.2/33

In: 0.010+/-0.000 $\chi^2$/NDF:2168137.1/18

Out: 0.003+/-0.000 $\chi^2$/NDF:12234617.8/21

All: 0.005+/-0.000 $\chi^2$/NDF: 20880139.5/40

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.029+/-0.058 $\chi^2$/NDF: 17.2/15

Left Out: 0.540+/-0.240 $\chi^2$/NDF:5.8/4

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.086+/-0.212 $\chi^2$/NDF:7.3/2

Left: 0.188+/-0.159 $\chi^2$/NDF: 16.9/7

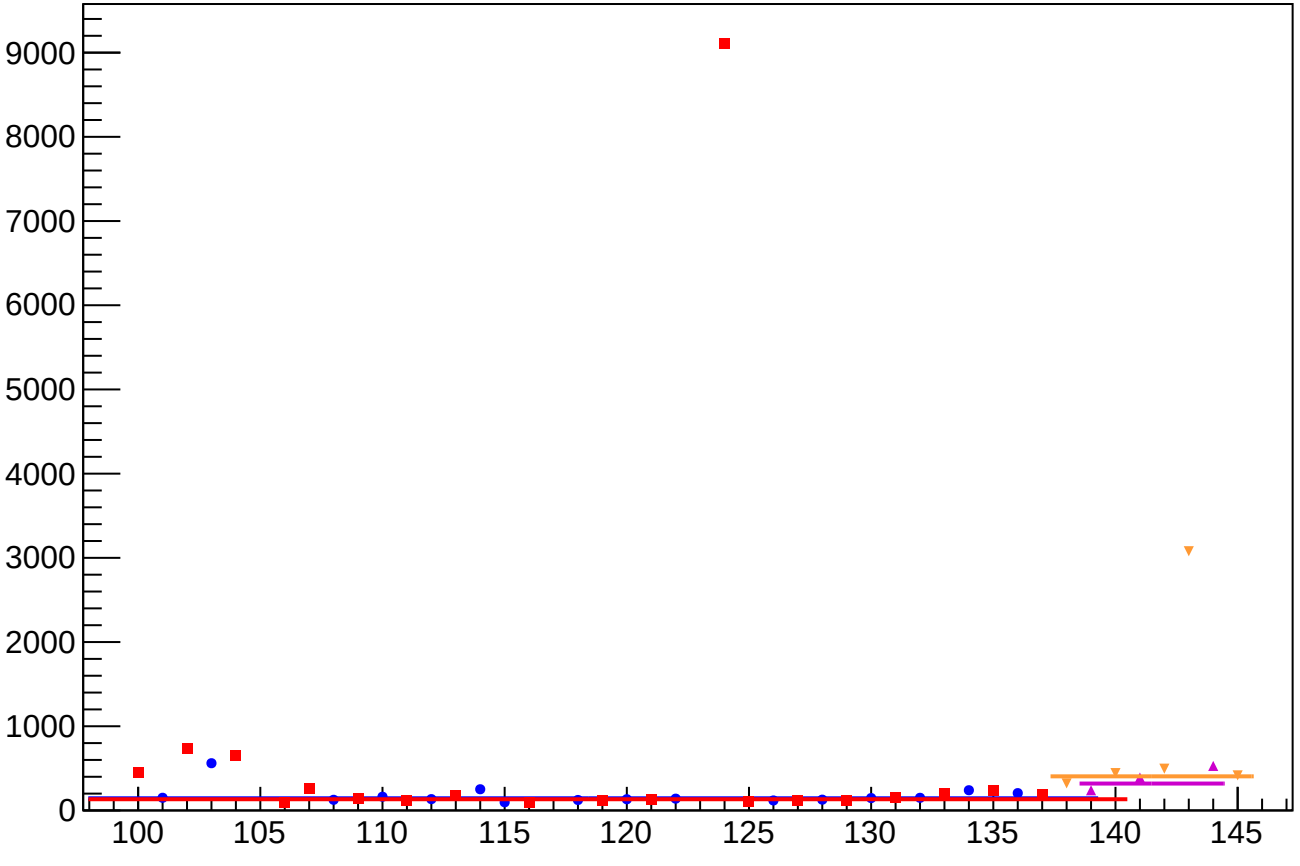
Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.033+/-0.056 $\chi^2$/NDF:24.6/18

Out: 0.038+/-0.055 $\chi^2$/NDF:32.2/23

All: 0.003+/-0.039 $\chi^2$/NDF: 57.6/42

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 144.289+/-0.041 $\chi^2$/NDF: 1128804.3/15

Left Out: 405.129+/-0.170 $\chi^2$/NDF:1373189.2/4

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220606.0/18

Left In: 319.493+/-0.150 $\chi^2$/NDF:507176.5/2

Left: 356.985+/-0.112 $\chi^2$/NDF: 2023242.6/7

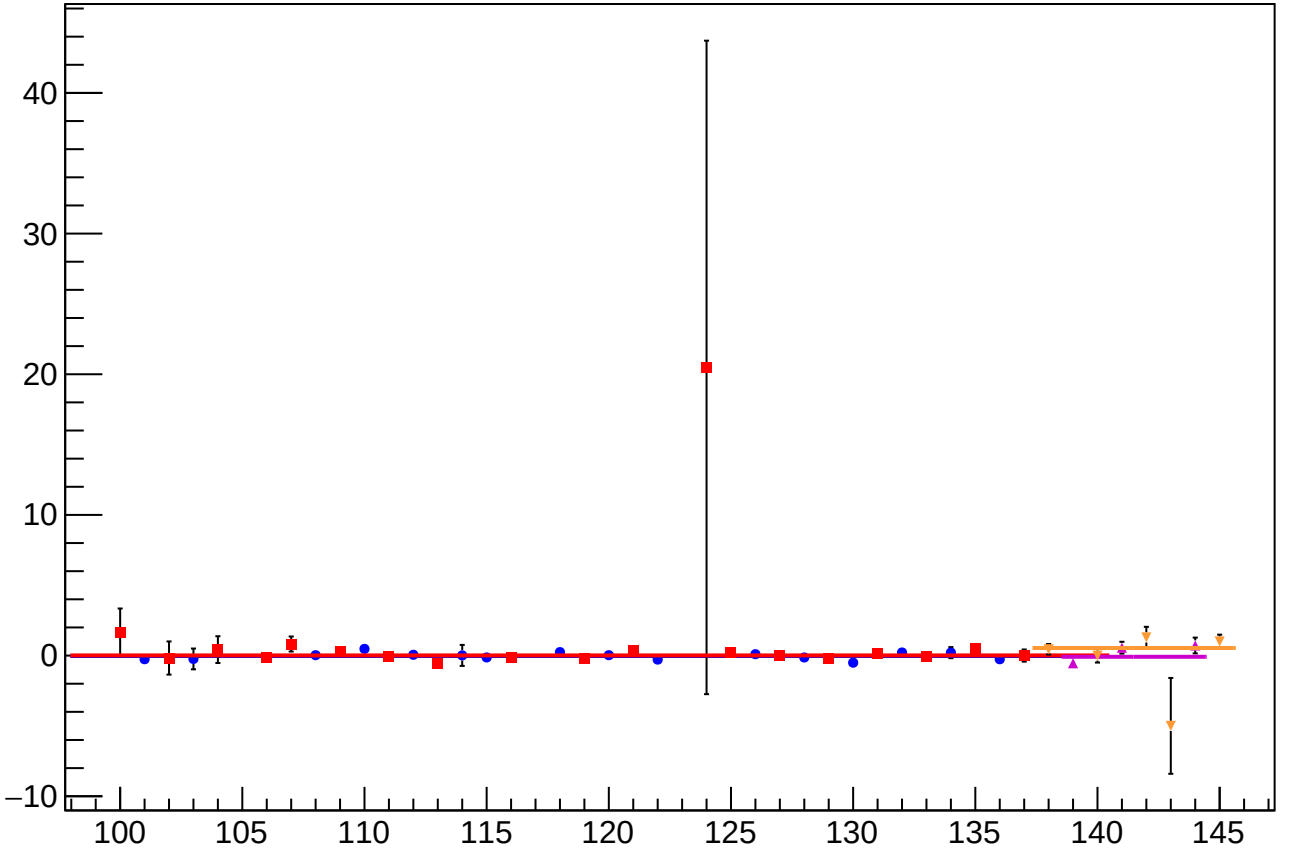
Right: 138.644+/-0.029 $\chi^2$/NDF: 3386673.9/34

In: 156.422+/-0.039 $\chi^2$/NDF:2907408.5/18

Out: 147.508+/-0.039 $\chi^2$/NDF:6021029.3/23

All: 151.903+/-0.028 $\chi^2$/NDF: 8954328.1/42

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: 0.540+/-0.240 $\chi^2$/NDF:5.8/4

Right Out: 0.011+/-0.057 $\chi^2$/NDF: 21.8/18

Left In: -0.086+/-0.212 $\chi^2$/NDF:7.3/2

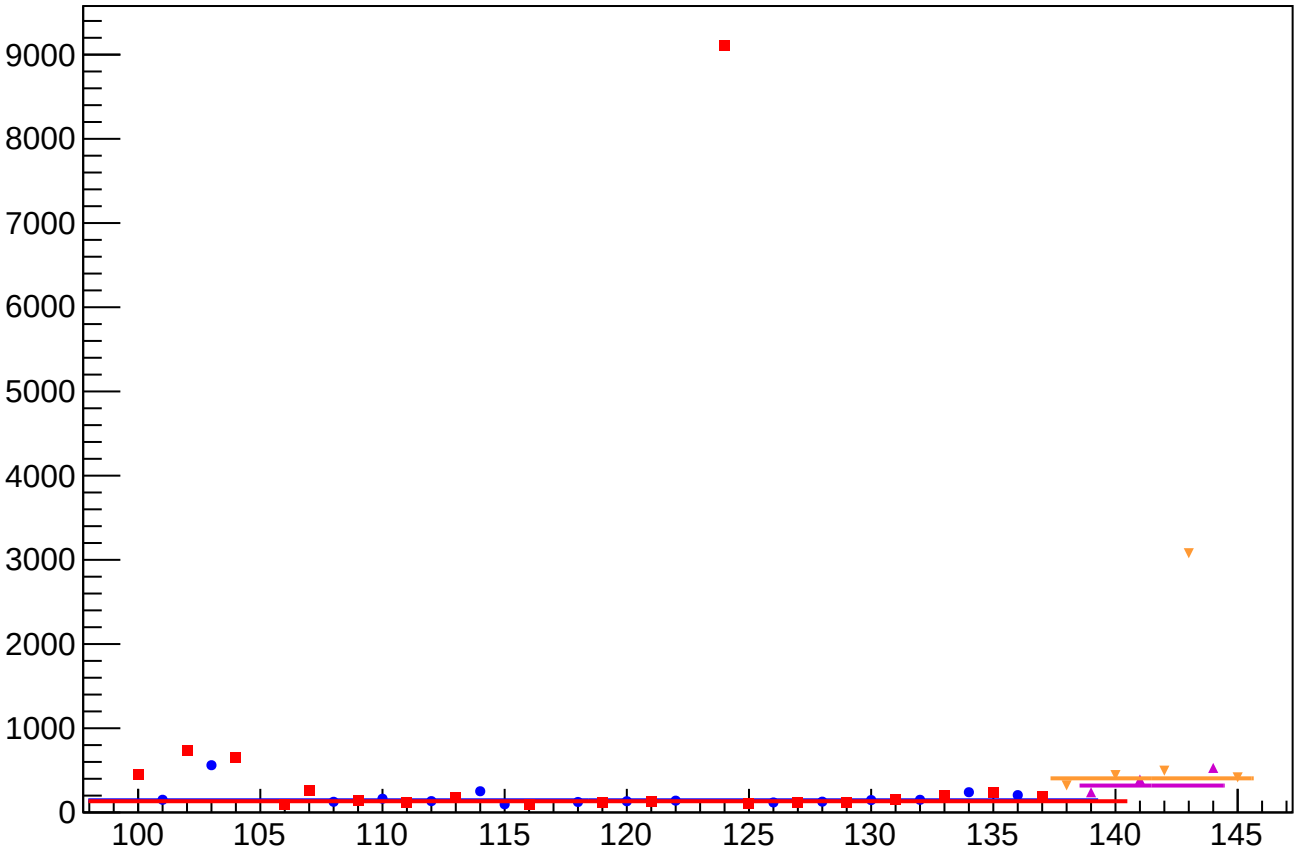
Left: 0.188+/-0.159 $\chi^2$/NDF: 16.9/7

Right: -0.009+/-0.040 $\chi^2$/NDF: 39.3/34

In: -0.033+/-0.056 $\chi^2$/NDF:24.6/18

Out: 0.038+/-0.055 $\chi^2$/NDF:32.2/23

All: 0.003+/-0.039 $\chi^2$/NDF: 57.6/42




Right In: 144.289+/-0.041 $\chi^2$/NDF: 1128804.3/15

Left Out: 405.129+/-0.170 $\chi^2$/NDF:1373189.2/4

Right Out: 133.253+/-0.040 $\chi^2$/NDF: 2220606.0/18

Left In: 319.493+/-0.150 $\chi^2$/NDF:507176.5/2

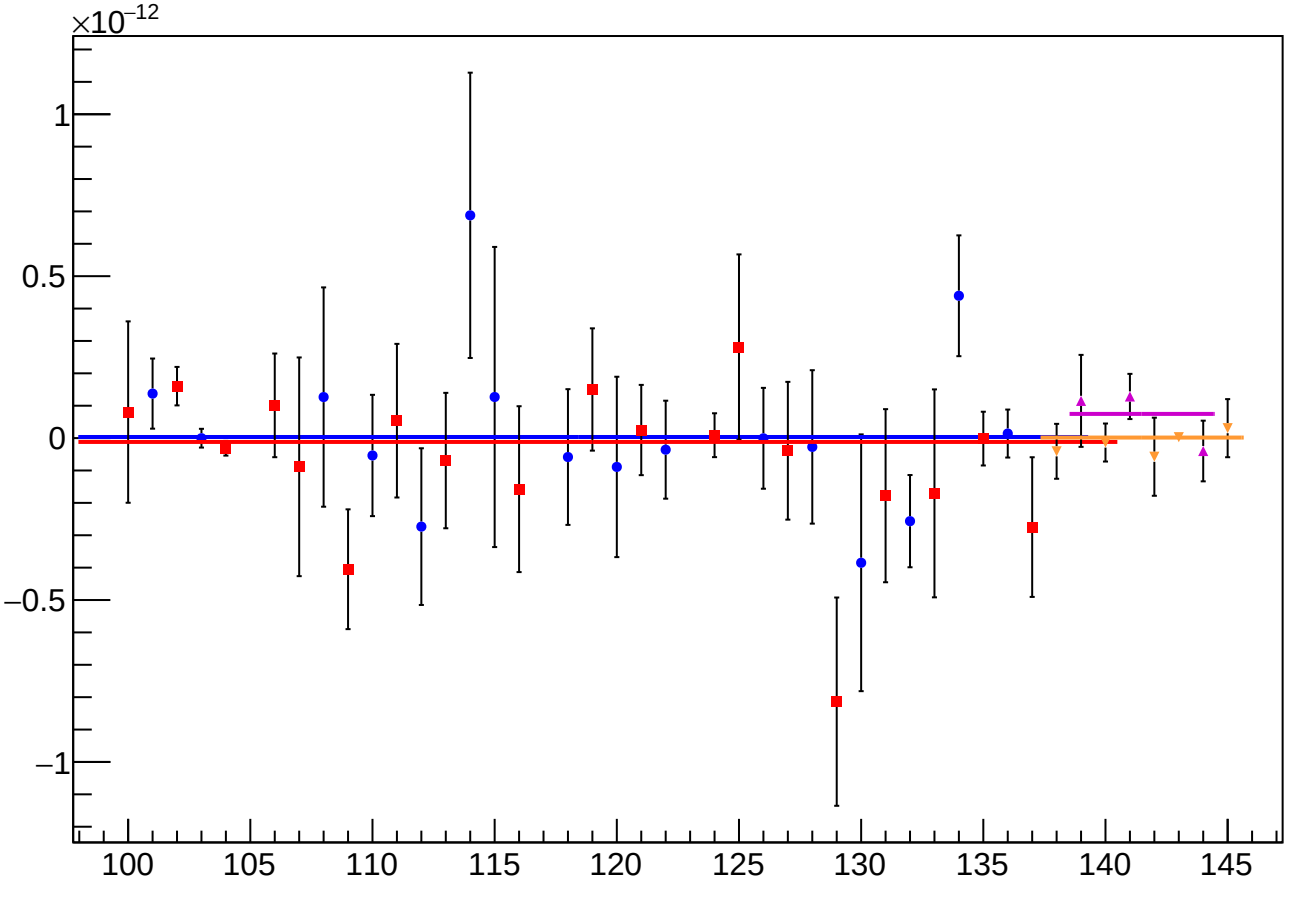
Left: 356.985+/-0.112 $\chi^2$/NDF: 2023242.6/7

Right: 138.644+/-0.029 $\chi^2$/NDF: 3386673.9/34

In: 156.422+/-0.039 $\chi^2$/NDF:2907408.5/18

Out: 147.508+/-0.039 $\chi^2$/NDF:6021029.3/23

All: 151.903+/-0.028 $\chi^2$/NDF: 8954328.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.7/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.2/2

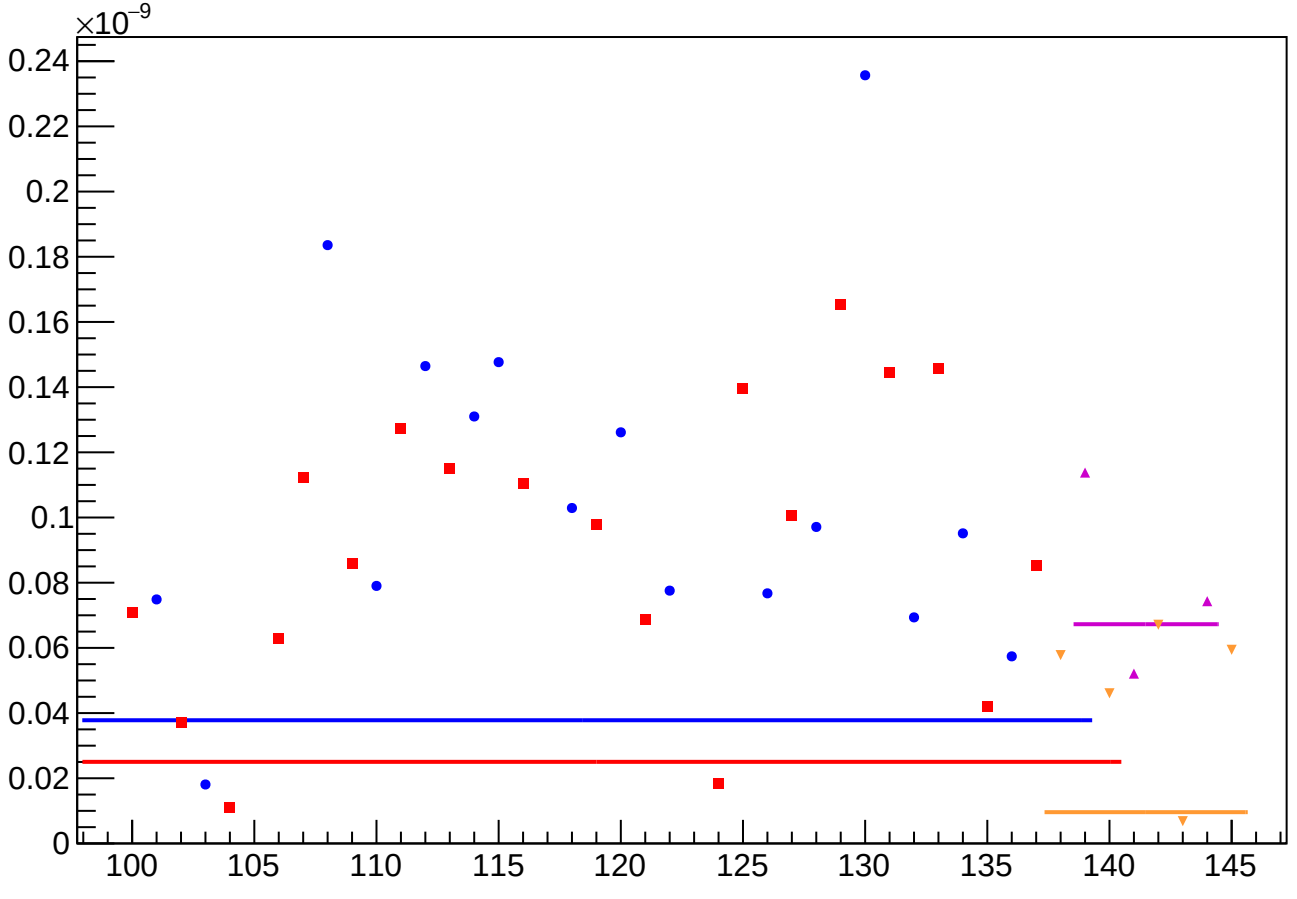
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:26.2/23

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




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3942675.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2641918.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4701757.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:320433.4/2

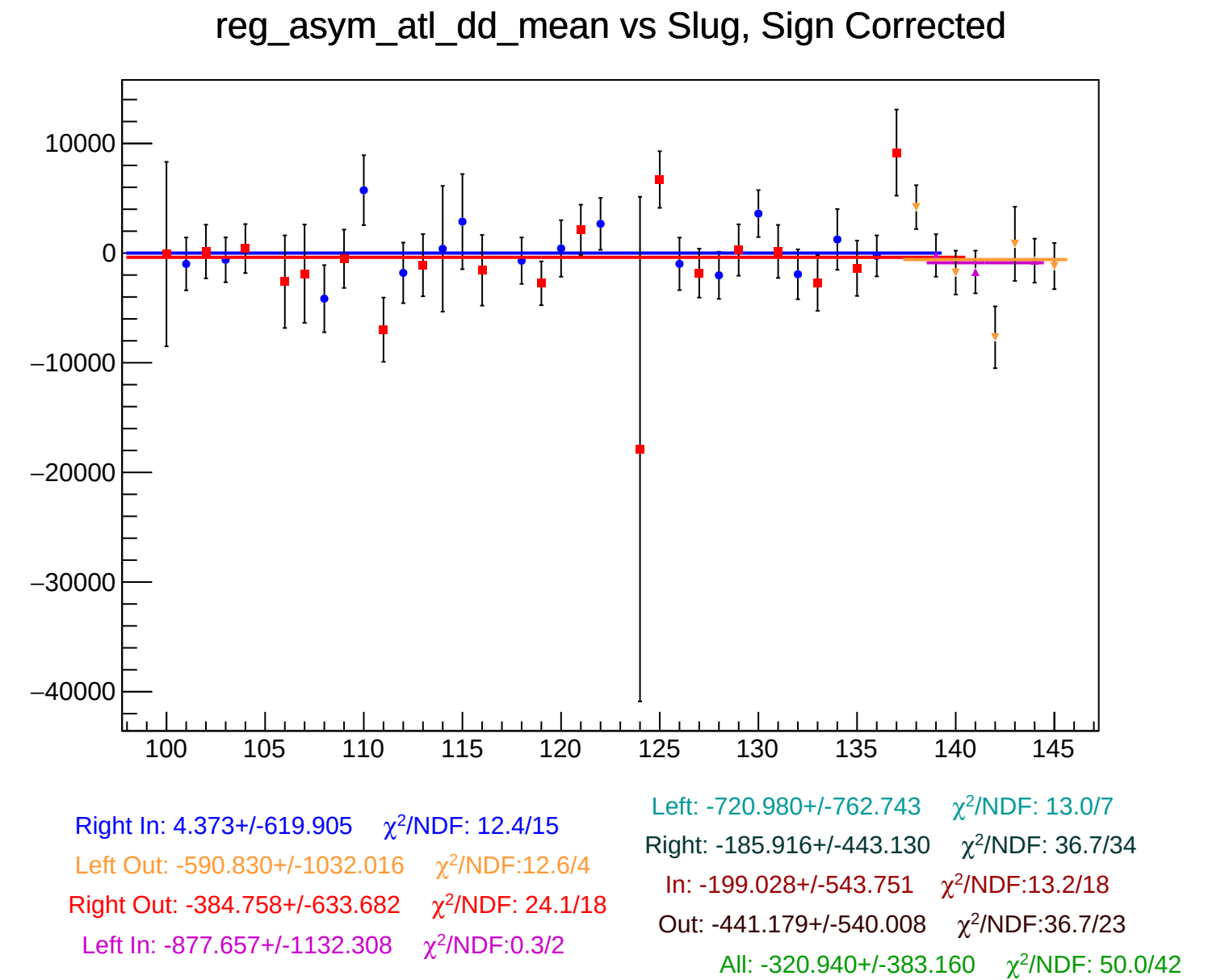
Left: 0.000+/-0.000 $\chi^2$/NDF: 5332966.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 8999957.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:4792005.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:8430108.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 16513430.7/42


reg_asym_atl_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
105
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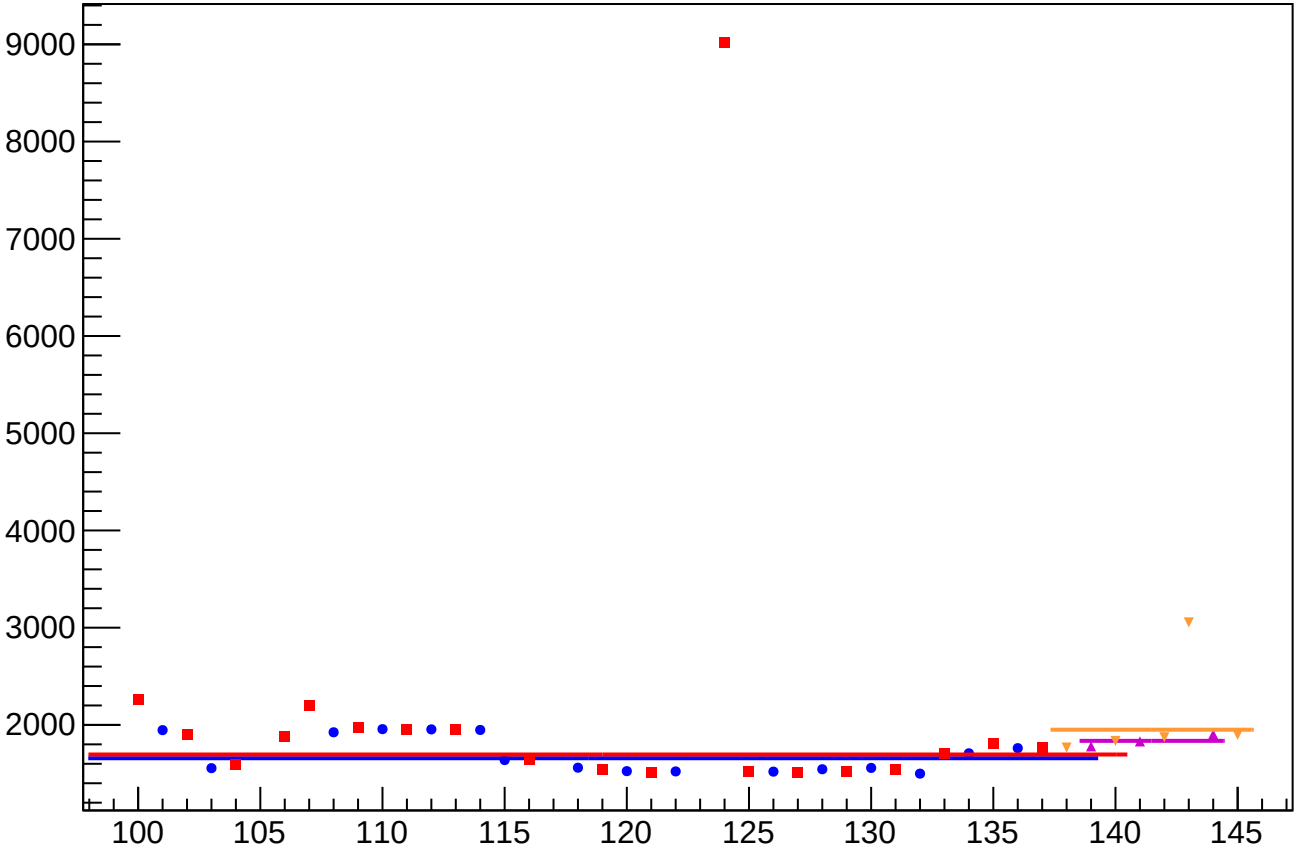
115
120
125
130
135
140
145
Right In: 4.373+/-619.905 χ²/NDF: 12.4/15
Left Out: -590.830+/-1032.016 χ²/NDF:12.6/4
Right Out: -384.758+/-633.682 χ²/NDF: 24.1/18
Left In: -877.657+/-1132.308 χ²/NDF:0.3/2
Left: -720.980+/-762.743 χ²/NDF: 13.0/7
Right: -185.916+/-443.130 χ²/NDF: 36.7/34
In: -199.028+/-543.751 χ²/NDF:13.2/18
Out: -441.179+/-540.008 χ²/NDF:36.7/23
All: -320.940+/-383.160 χ²/NDF: 50.0/42

# reg_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.4/15

Left Out: 1950.787+/-0.730 $\chi^2$/NDF:239493.7/4

Right Out: 1695.649+/-0.446 $\chi^2$/NDF: 386216.2/18

Left In: 1836.056+/-0.801 $\chi^2$/NDF:3996.3/2

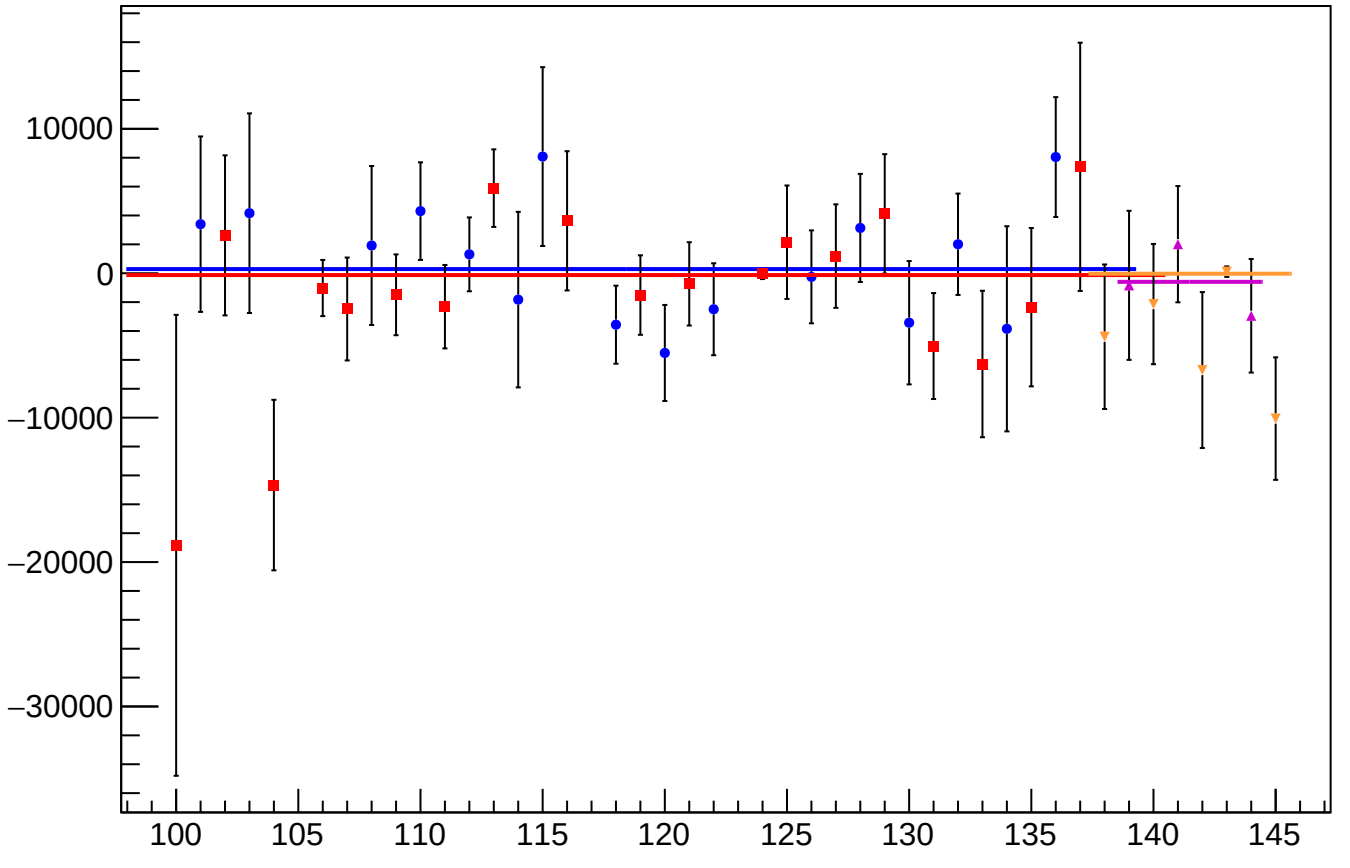
Left: 1898.726+/-0.539 $\chi^2$/NDF: 254706.1/7

Right: 1676.049+/-0.313 $\chi^2$/NDF: 533994.7/34

In: 1698.383+/-0.384 $\chi^2$/NDF:186406.7/18

Out: 1765.038+/-0.381 $\chi^2$/NDF:714703.4/23

All: 1732.052+/-0.270 $\chi^2$/NDF: 916291.0/42




Right In: 289.262+/-961.071 $\chi^2$/NDF: 15.2/15

Left Out: -32.790+/-359.682 $\chi^2$/NDF:8.3/4

Right Out: -125.586+/-323.715 $\chi^2$/NDF: 20.8/18

Left In: -596.173+/-2470.176 $\chi^2$/NDF:0.8/2

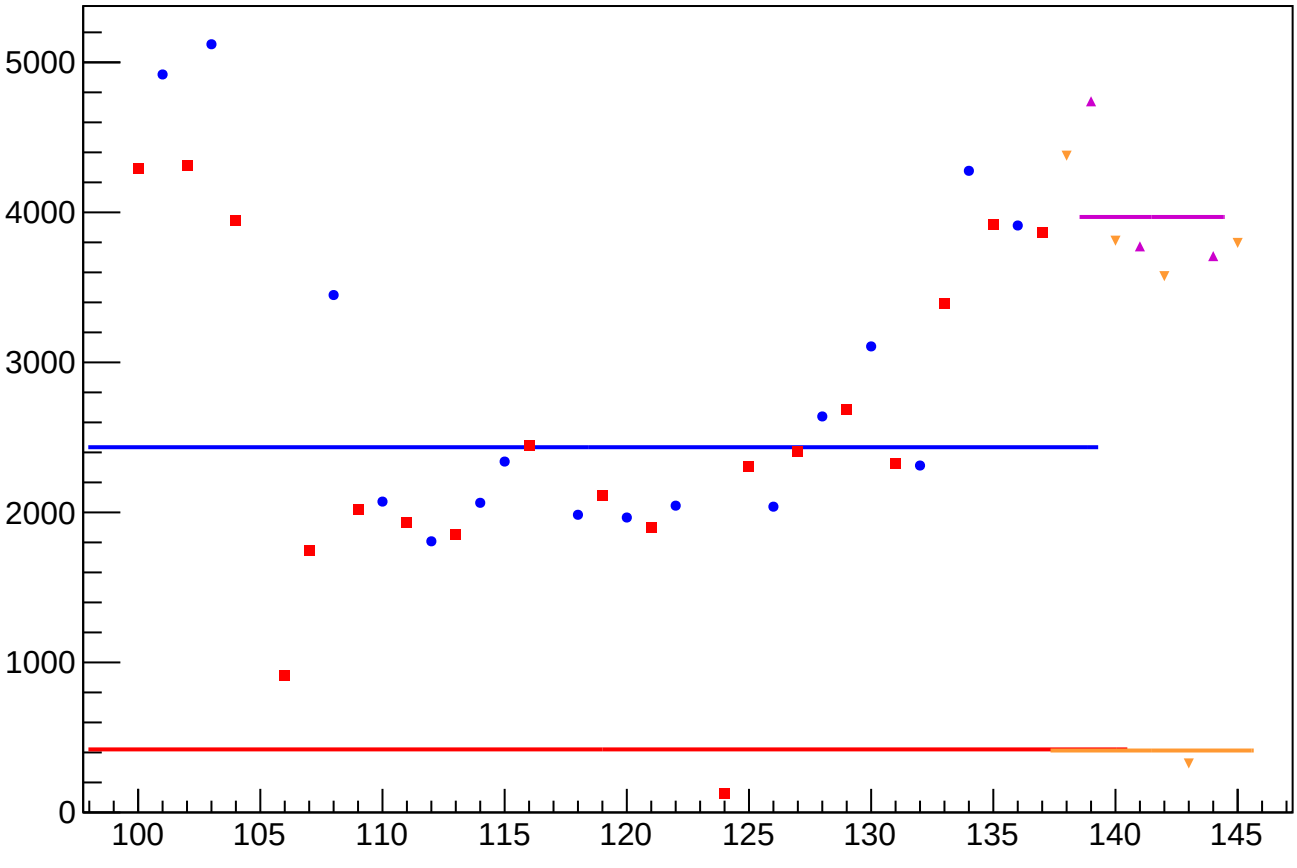
Left: -44.487+/-355.928 $\chi^2$/NDF: 9.1/7

Right: -83.316+/-306.780 $\chi^2$/NDF: 36.2/34

In: 172.851+/-895.668 $\chi^2$/NDF:16.1/18

Out: -84.058+/-240.615 $\chi^2$/NDF:29.2/23

All: -66.766+/-232.376 $\chi^2$/NDF: 45.4/42




Right In: 2434.593+/-0.680 $\chi^2$/NDF: 1457721.5/15

Left Out: 412.900+/-0.254 $\chi^2$/NDF:4658466.9/4

Right Out: 420.292+/-0.229 $\chi^2$/NDF: 11063973.9/18

Left In: 3969.420+/-1.747 $\chi^2$/NDF:58172.7/2

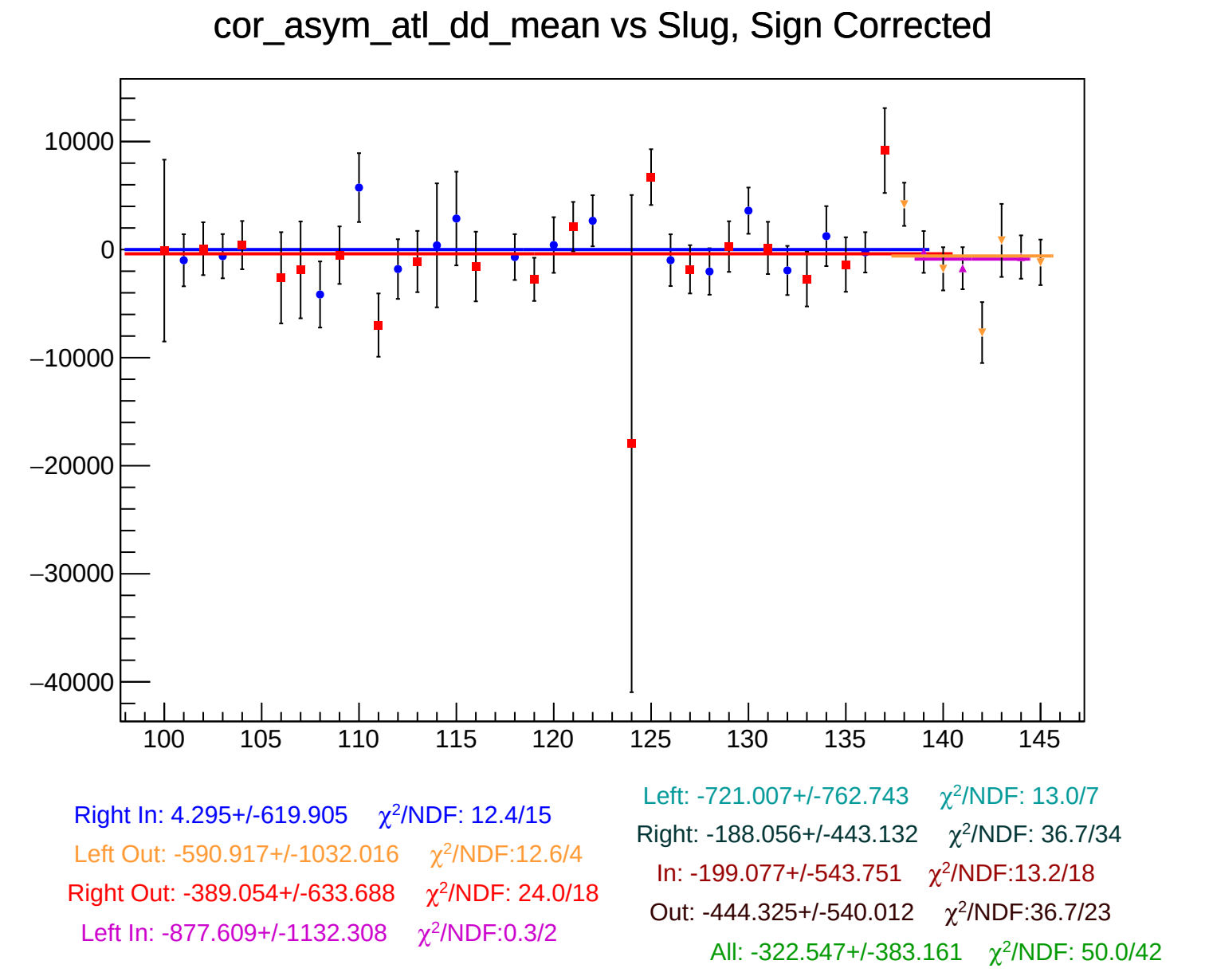
Left: 486.740+/-0.252 $\chi^2$/NDF: 8776516.6/7

Right: 625.534+/-0.217 $\chi^2$/NDF: 20412045.5/34

In: 2636.382+/-0.633 $\chi^2$/NDF:2186513.2/18

Out: 416.984+/-0.170 $\chi^2$/NDF:15722907.5/23

All: 566.374+/-0.164 $\chi^2$/NDF: 29363054.4/42


cor_asym_atl_dd_mean vs Slug, Sign Corrected
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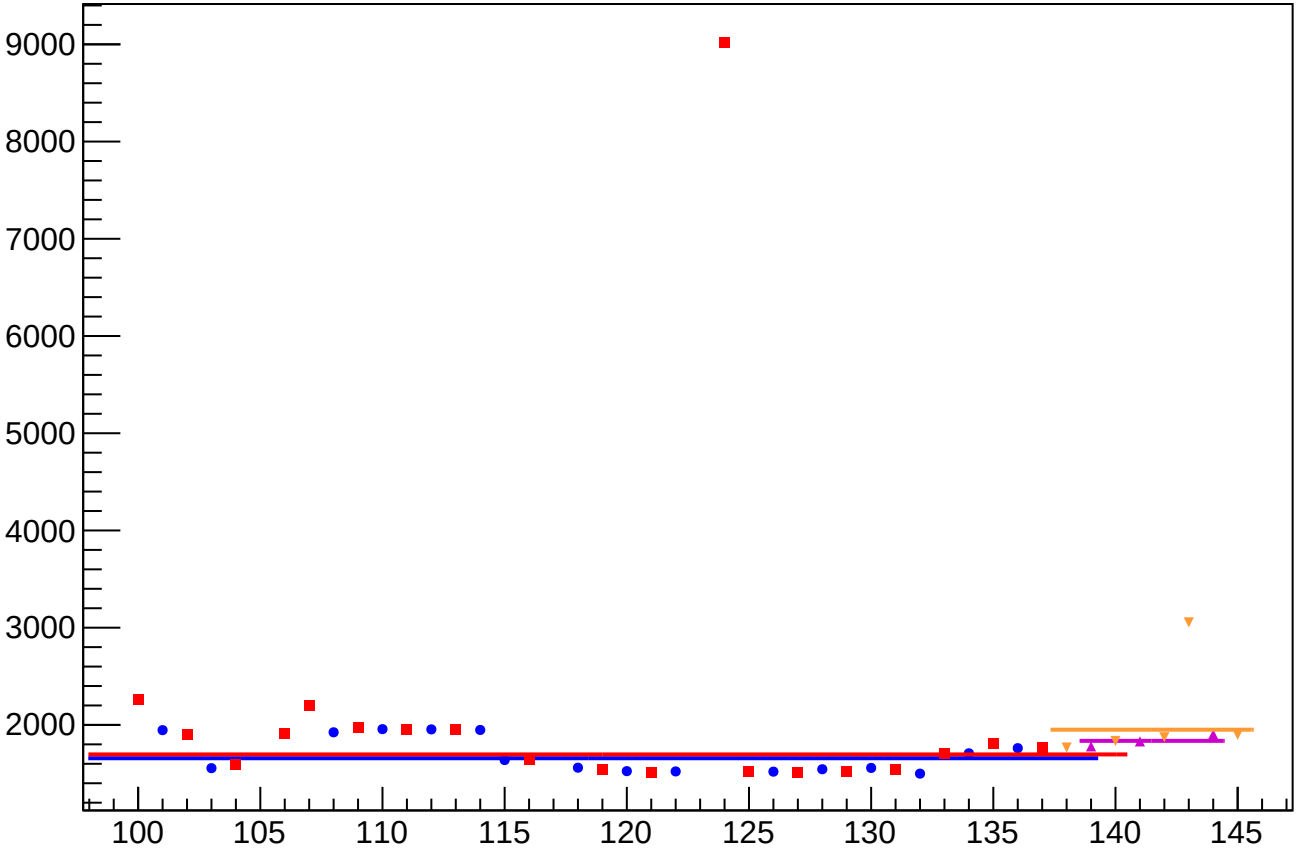
145
Right In: 4.295+/-619.905 χ²/NDF: 12.4/15
Left Out: -590.917+/-1032.016 χ²/NDF:12.6/4
Right Out: -389.054+/-633.688 χ²/NDF: 24.0/18
Left In: -877.609+/-1132.308 χ²/NDF:0.3/2
Left: -721.007+/-762.743 χ²/NDF: 13.0/7
Right: -188.056+/-443.132 χ²/NDF: 36.7/34
In: -199.077+/-543.751 χ²/NDF:13.2/18
Out: -444.325+/-540.012 χ²/NDF:36.7/23
All: -322.547+/-383.161 χ²/NDF: 50.0/42

# cor_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.5/15

Left Out: 1950.787+/-0.730 $\chi^2$/NDF:239493.7/4

Right Out: 1696.442+/-0.446 $\chi^2$/NDF: 387974.4/18

Left In: 1836.056+/-0.801 $\chi^2$/NDF:3996.3/2

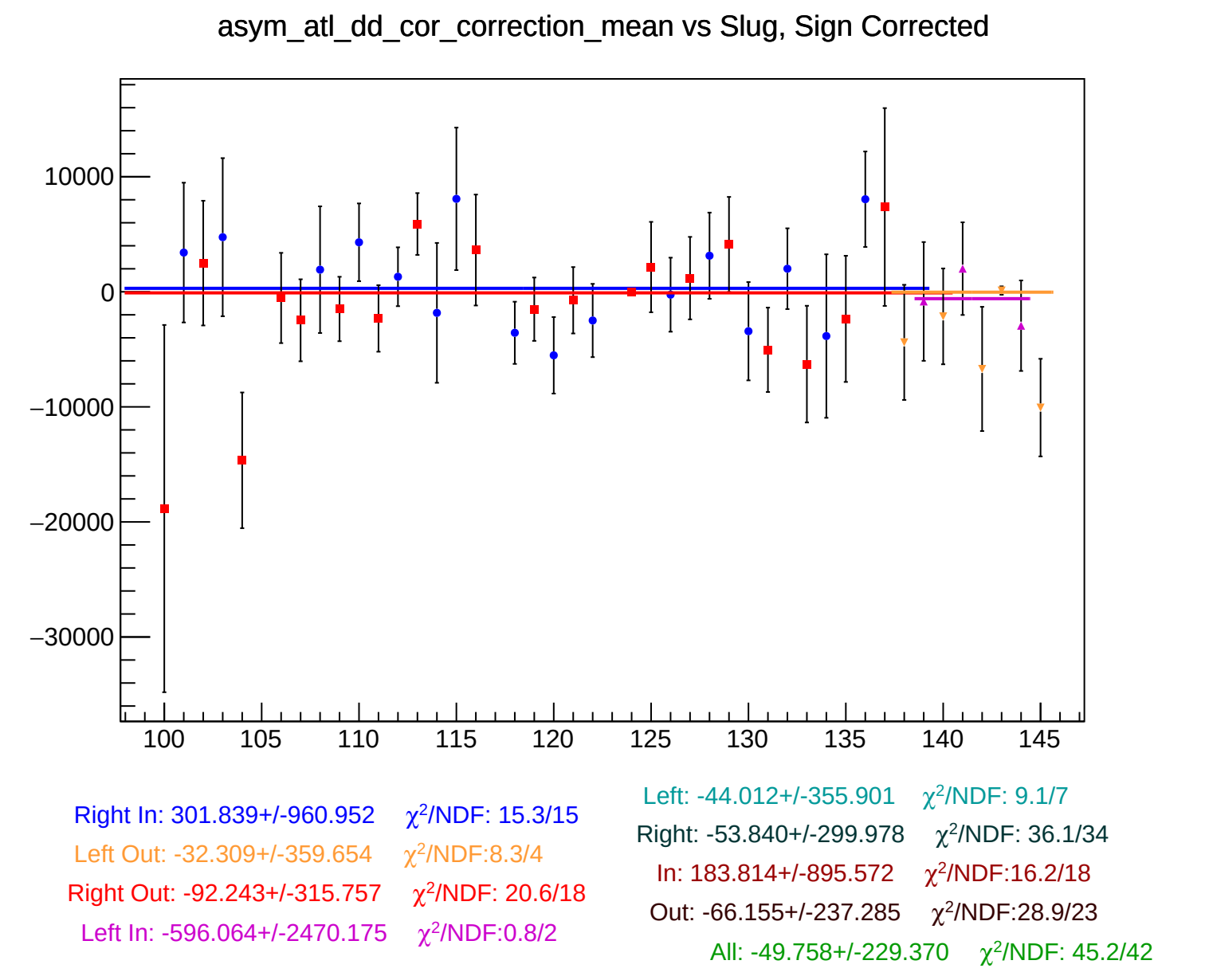
Left: 1898.726+/-0.539 $\chi^2$/NDF: 254706.1/7

Right: 1676.430+/-0.313 $\chi^2$/NDF: 535909.0/34

In: 1698.383+/-0.384 $\chi^2$/NDF:186406.8/18

Out: 1765.664+/-0.381 $\chi^2$/NDF:715885.8/23

All: 1732.357+/-0.271 $\chi^2$/NDF: 917754.8/42


asym_atl_dd_cor_correction_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
100
105
110
115
120
125
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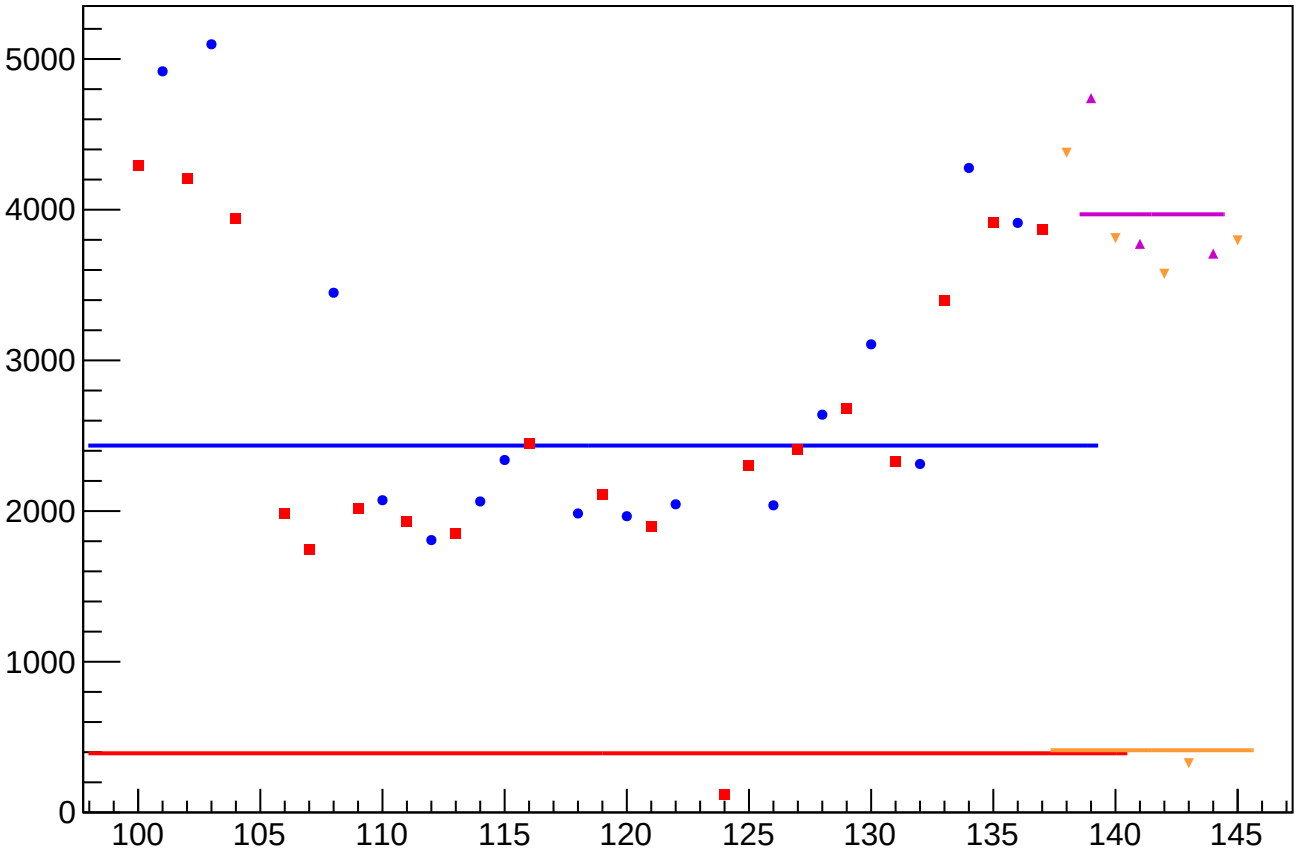
135
140
145
Right In: 301.839+/-960.952 χ²/NDF: 15.3/15
Left Out: -32.309+/-359.654 χ²/NDF:8.3/4
Right Out: -92.243+/-315.757 χ²/NDF: 20.6/18
Left In: -596.064+/-2470.175 χ²/NDF:0.8/2
Left: -44.012+/-355.901 χ²/NDF: 9.1/7
Right: -53.840+/-299.978 χ²/NDF: 36.1/34
In: 183.814+/-895.572 χ²/NDF:16.2/18
Out: -66.155+/-237.285 χ²/NDF:28.9/23
All: -49.758+/-229.370 χ²/NDF: 45.2/42




Right In: 2434.758+/-0.679 $\chi^2$/NDF: 1456027.7/15

Left Out: 412.858+/-0.254 $\chi^2$/NDF:4658558.3/4

Right Out: 392.666+/-0.223 $\chi^2$/NDF: 11408006.3/18

Left In: 3969.419+/-1.747 $\chi^2$/NDF:58170.9/2

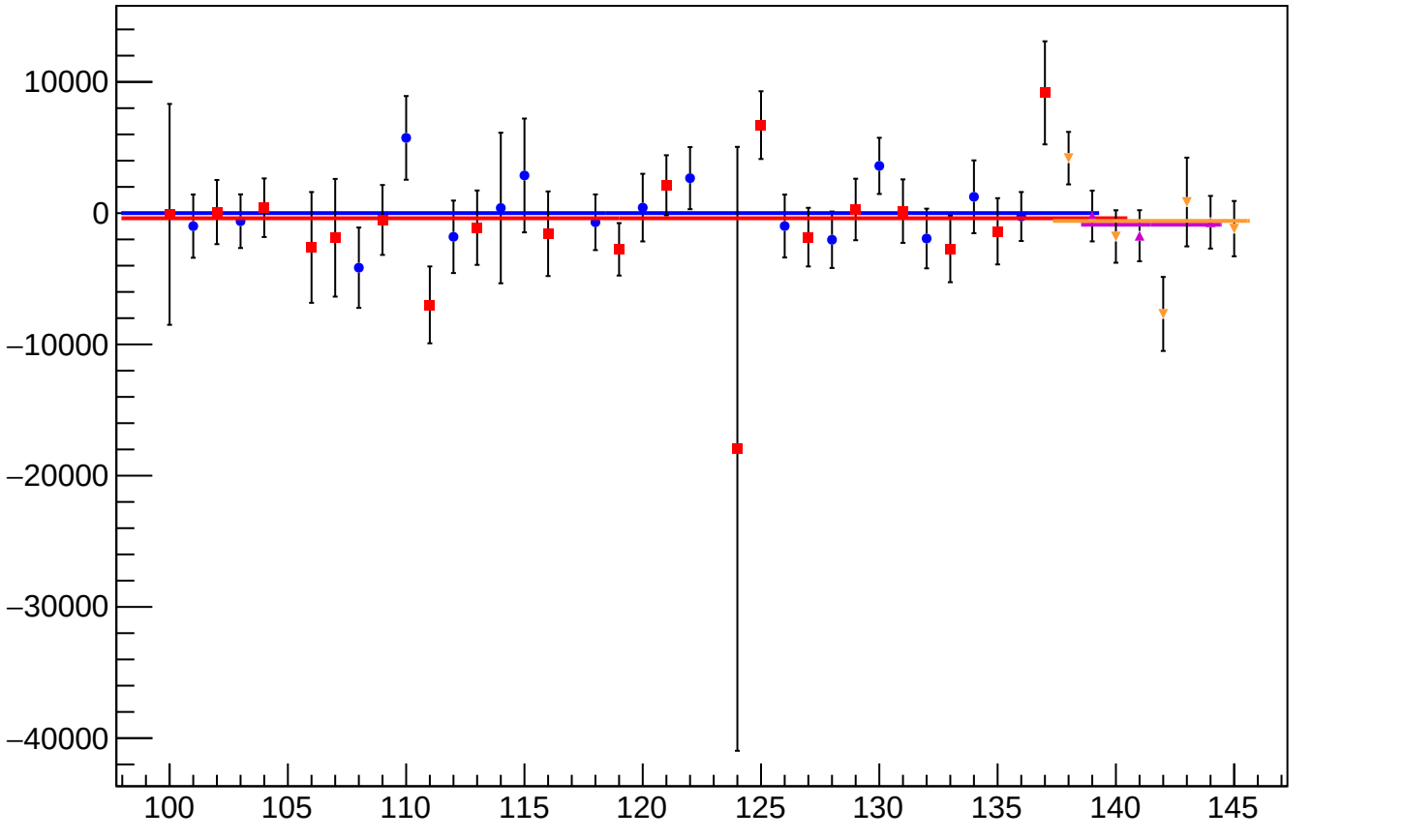
Left: 486.688+/-0.252 $\chi^2$/NDF: 8776716.6/7

Right: 591.664+/-0.212 $\chi^2$/NDF: 21015754.2/34

In: 2636.482+/-0.633 $\chi^2$/NDF:2184695.0/18

Out: 401.455+/-0.168 $\chi^2$/NDF:16070124.8/23

All: 548.062+/-0.162 $\chi^2$/NDF: 29894200.2/42




Right In: 4.295+/-619.905 $\chi^2$/NDF: 12.4/15

Left Out: -590.917+/-1032.016 $\chi^2$/NDF:12.6/4

Right Out: -389.054+/-633.688 $\chi^2$/NDF: 24.0/18

Left In: -877.609+/-1132.308 $\chi^2$/NDF:0.3/2

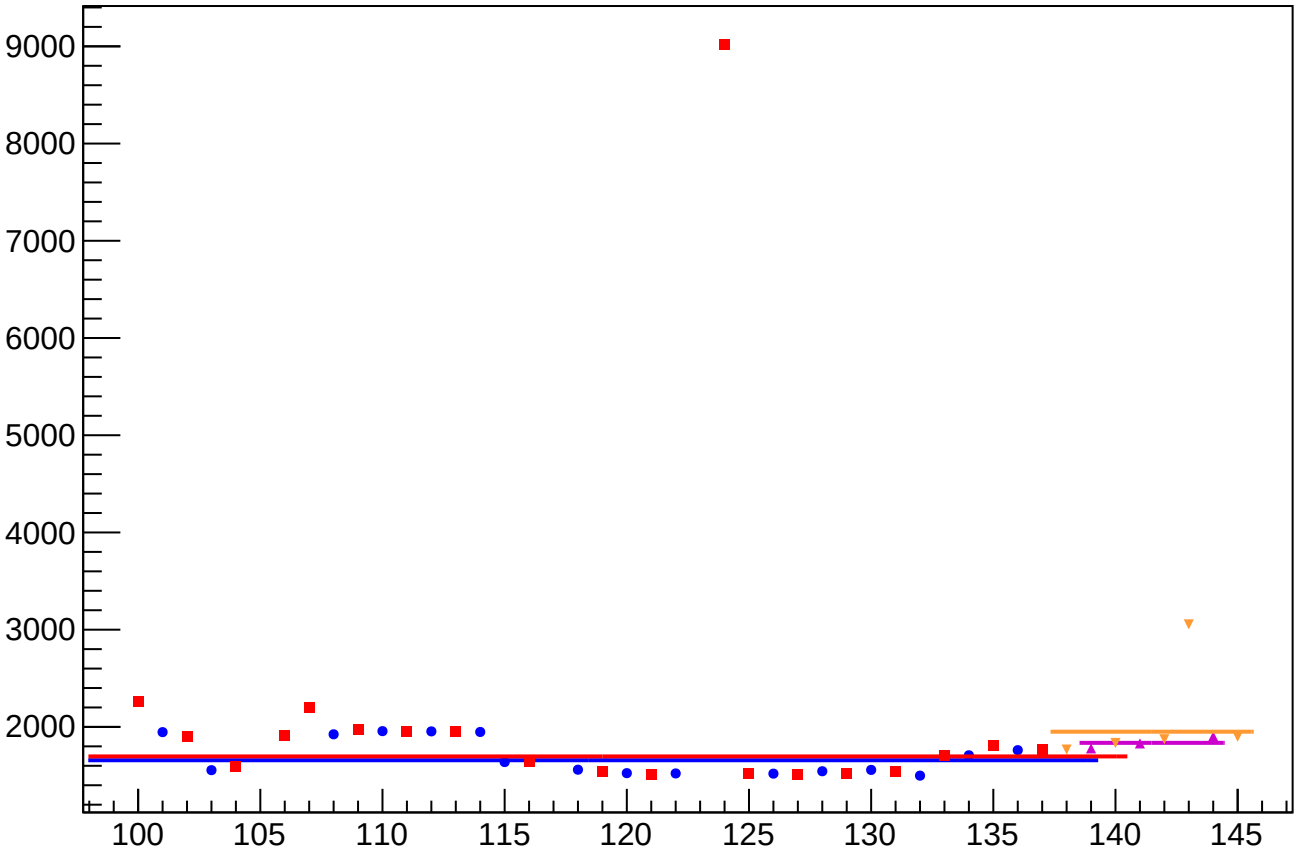
Left: -721.007+/-762.743 $\chi^2$/NDF: 13.0/7

Right: -188.056+/-443.132 $\chi^2$/NDF: 36.7/34

In: -199.077+/-543.751 $\chi^2$/NDF:13.2/18

Out: -444.325+/-540.012 $\chi^2$/NDF:36.7/23

All: -322.547+/-383.161 $\chi^2$/NDF: 50.0/42




Right In: 1657.119+/-0.438 $\chi^2$/NDF: 143982.5/15

Left Out: 1950.787+/-0.730 $\chi^2$/NDF:239493.7/4

Right Out: 1696.442+/-0.446 $\chi^2$/NDF: 387974.4/18

Left In: 1836.056+/-0.801 $\chi^2$/NDF:3996.3/2

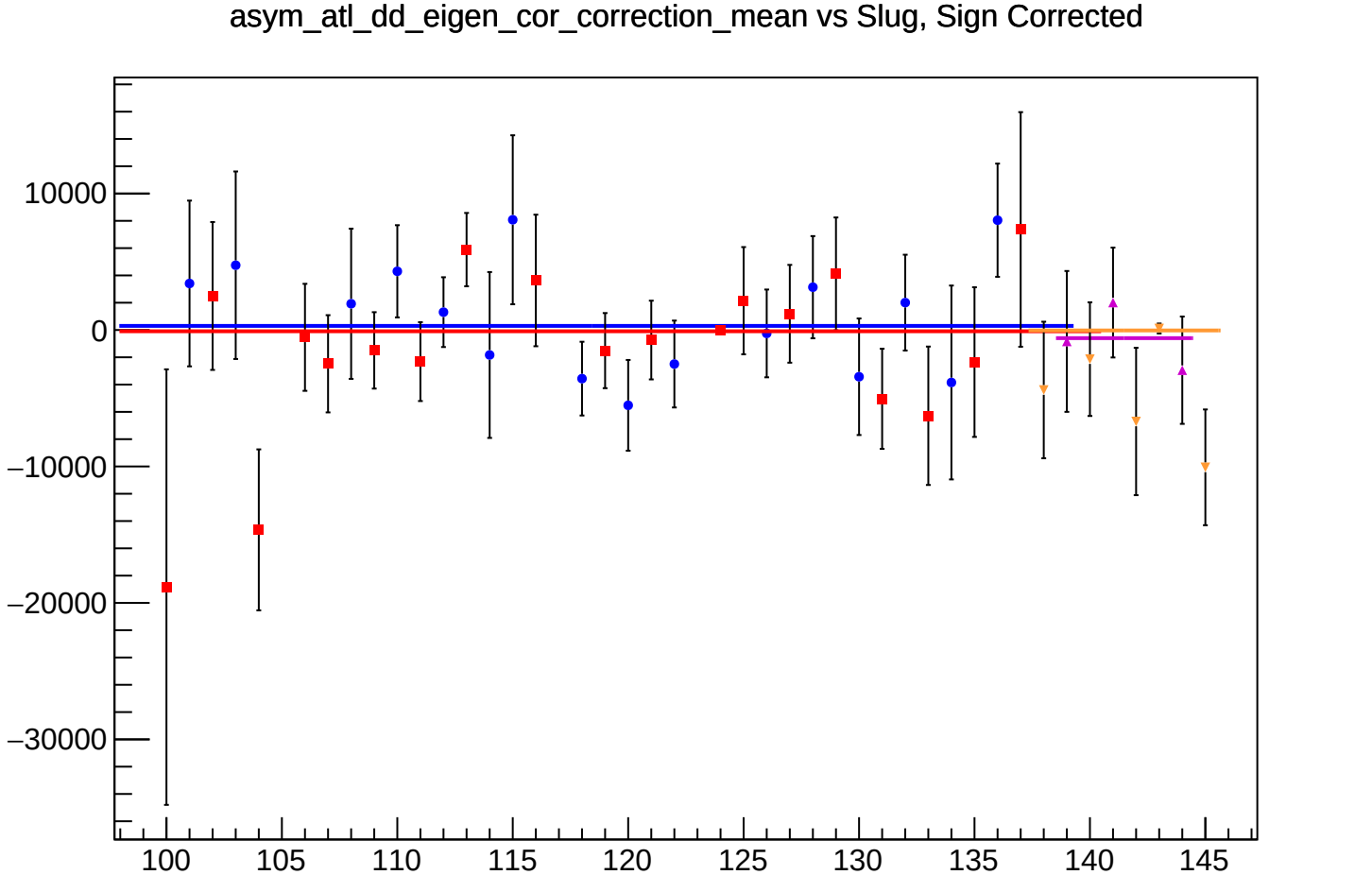
Left: 1898.726+/-0.539 $\chi^2$/NDF: 254706.1/7

Right: 1676.430+/-0.313 $\chi^2$/NDF: 535909.0/34

In: 1698.383+/-0.384 $\chi^2$/NDF:186406.8/18

Out: 1765.664+/-0.381 $\chi^2$/NDF:715885.8/23

All: 1732.357+/-0.271 $\chi^2$/NDF: 917754.8/42




Right In: 301.839+/-960.952 $\chi^2$/NDF: 15.3/15

Left Out: -32.309+/-359.654 $\chi^2$/NDF:8.3/4

Right Out: -92.243+/-315.757 $\chi^2$/NDF: 20.6/18

Left In: -596.064+/-2470.175 $\chi^2$/NDF:0.8/2

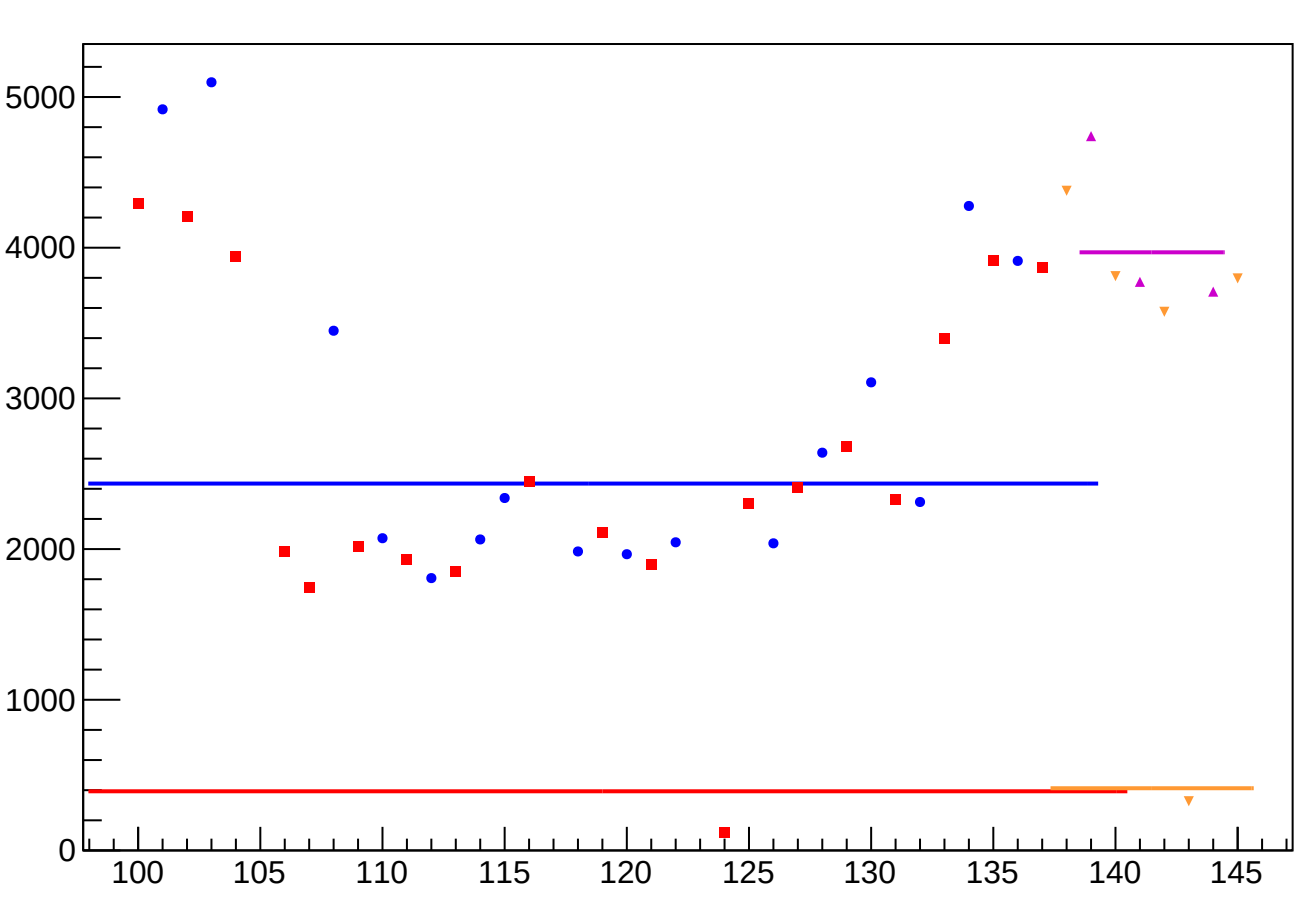
Left: -44.012+/-355.901 $\chi^2$/NDF: 9.1/7

Right: -53.840+/-299.978 $\chi^2$/NDF: 36.1/34

In: 183.814+/-895.572 $\chi^2$/NDF:16.2/18

Out: -66.155+/-237.285 $\chi^2$/NDF:28.9/23

All: -49.758+/-229.370 $\chi^2$/NDF: 45.2/42




Right In: 2434.758+/-0.679 $\chi^2$/NDF: 1456027.7/15

Left Out: 412.858+/-0.254 $\chi^2$/NDF:4658558.3/4

Right Out: 392.666+/-0.223 $\chi^2$/NDF: 11408006.3/18

Left In: 3969.419+/-1.747 $\chi^2$/NDF:58170.9/2

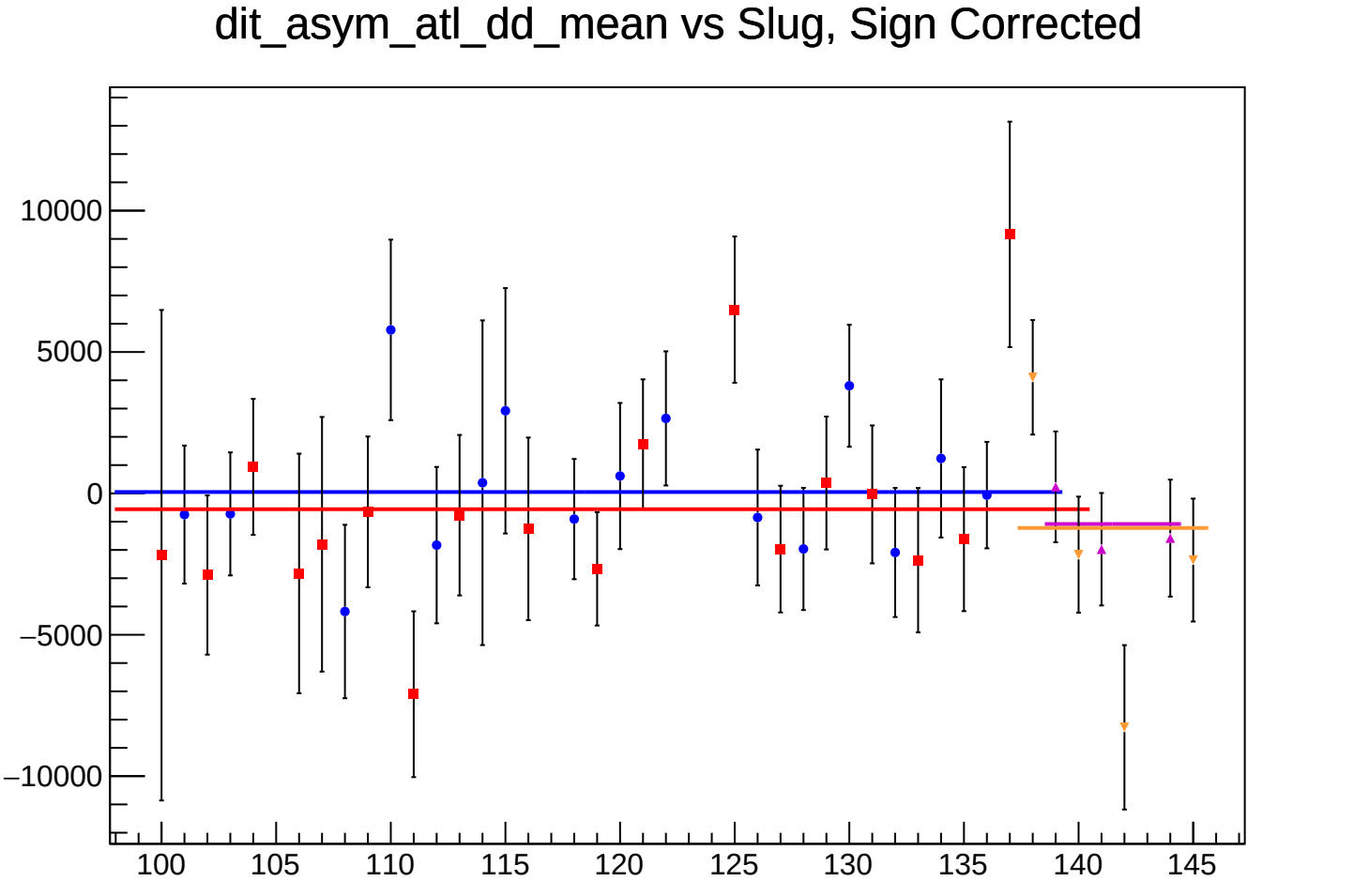
Left: 486.688+/-0.252 $\chi^2$/NDF: 8776716.6/7

Right: 591.664+/-0.212 $\chi^2$/NDF: 21015754.2/34

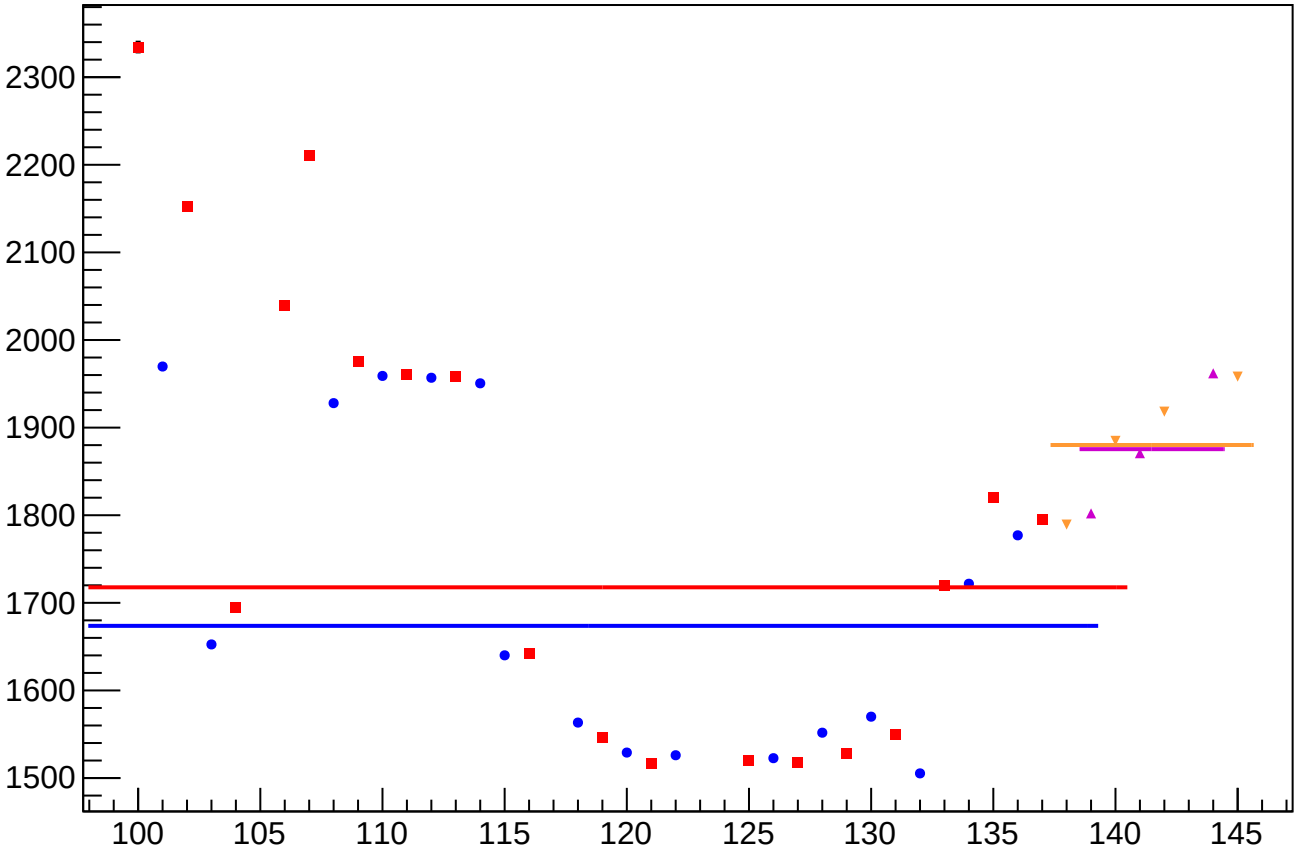
In: 2636.482+/-0.633 $\chi^2$/NDF:2184695.0/18

Out: 401.455+/-0.168 $\chi^2$/NDF:16070124.8/23

All: 548.062+/-0.162 $\chi^2$/NDF: 29894200.2/42


dit_asym_atl_dd_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: 48.331+/-626.151 χ²/NDF: 12.8/15
Left Out: -1223.293+/-1110.398 χ²/NDF:13.3/3
Right Out: -559.598+/-645.291 χ²/NDF: 23.3/17
Left In: -1083.314+/-1156.961 χ²/NDF:0.7/2
Left: -1156.177+/-801.125 χ²/NDF: 14.0/6
Right: -246.484+/-449.370 χ²/NDF: 36.5/33
In: -208.038+/-550.676 χ²/NDF:14.3/18
Out: -727.154+/-557.922 χ²/NDF:36.8/21
All: -464.203+/-391.924 χ²/NDF: 51.5/40

# dit_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1673.729+/-0.443 $\chi^2$/NDF: 140873.1/15

Left Out: 1880.161+/-0.785 $\chi^2$/NDF:6955.5/3

Right Out: 1717.713+/-0.455 $\chi^2$/NDF: 227642.0/17

Left In: 1875.420+/-0.818 $\chi^2$/NDF:6314.2/2

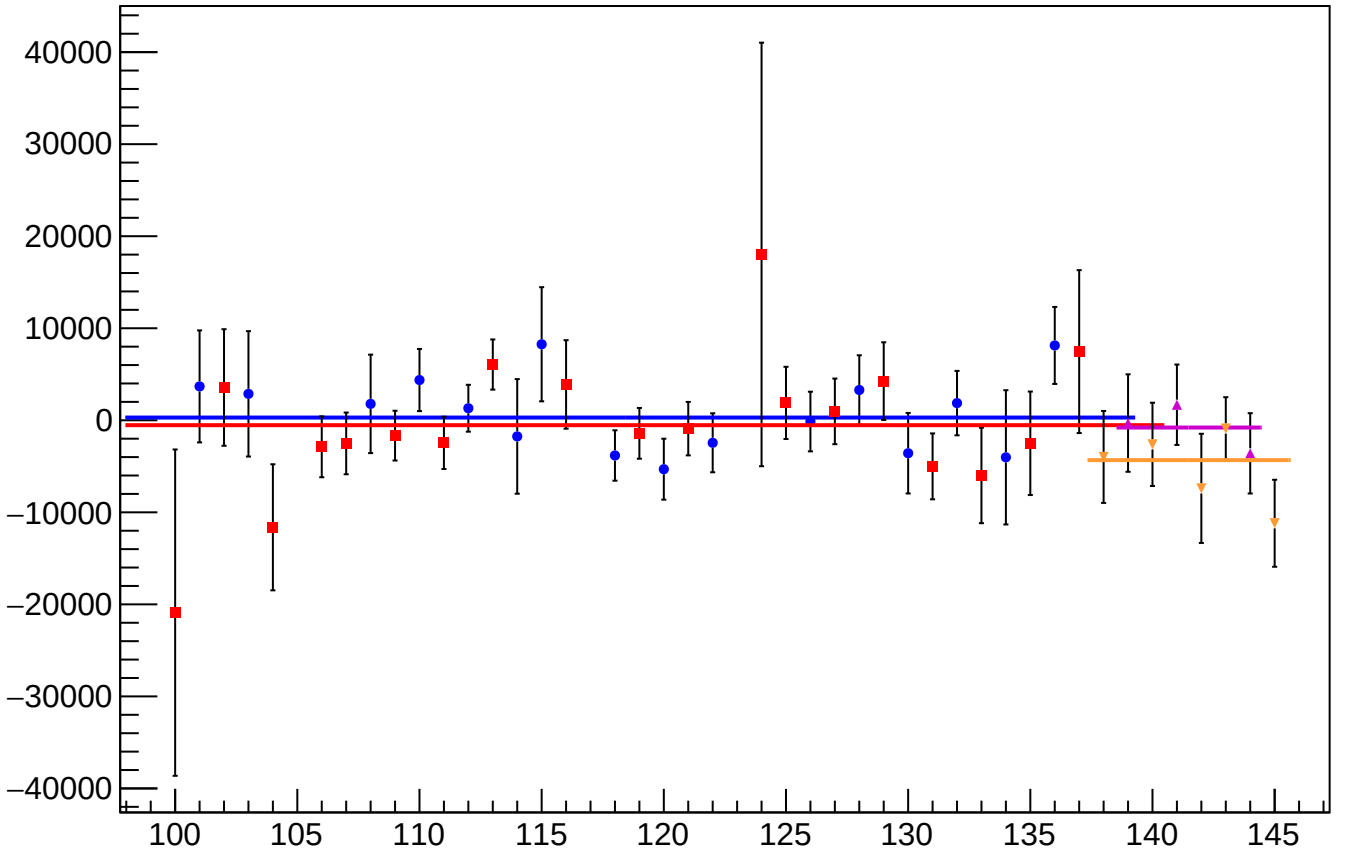
Left: 1877.888+/-0.566 $\chi^2$/NDF: 13287.2/6

Right: 1695.110+/-0.317 $\chi^2$/NDF: 373312.6/33

In: 1719.421+/-0.389 $\chi^2$/NDF:194198.6/18

Out: 1758.583+/-0.394 $\chi^2$/NDF:266633.9/21

All: 1738.780+/-0.277 $\chi^2$/NDF: 465832.6/40




Right In: 296.517+/-964.677 $\chi^2$/NDF: 15.3/15

Left Out: -4328.453+/-2005.805 $\chi^2$/NDF:3.5/4

Right Out: -531.007+/-883.969 $\chi^2$/NDF: 18.8/18

Left In: -787.741+/-2666.998 $\chi^2$/NDF:0.7/2

Left: -3049.267+/-1603.040 $\chi^2$/NDF: 5.4/7

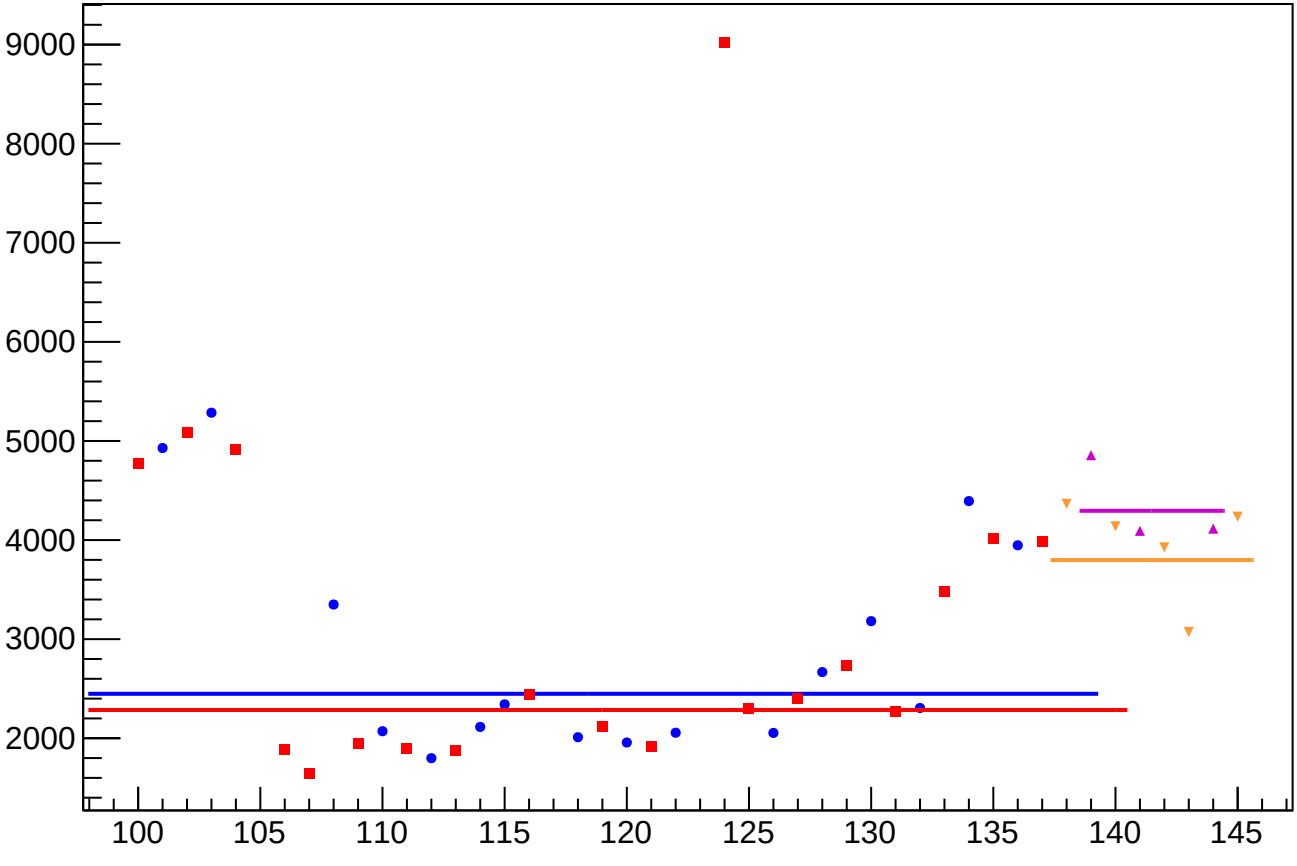
Right: -153.305+/-651.728 $\chi^2$/NDF: 34.4/34

In: 171.072+/-907.158 $\chi^2$/NDF:16.1/18

Out: -1148.601+/-808.900 $\chi^2$/NDF:25.3/23

All: -564.080+/-603.740 $\chi^2$/NDF: 42.6/42

# asym_atl_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 2448.598+/-0.682 $\chi^2$/NDF: 1517585.7/15

Left Out: 3798.029+/-1.418 $\chi^2$/NDF:146090.1/4

Right Out: 2285.075+/-0.625 $\chi^2$/NDF: 1548819.2/18

Left In: 4295.219+/-1.886 $\chi^2$/NDF:30130.3/2

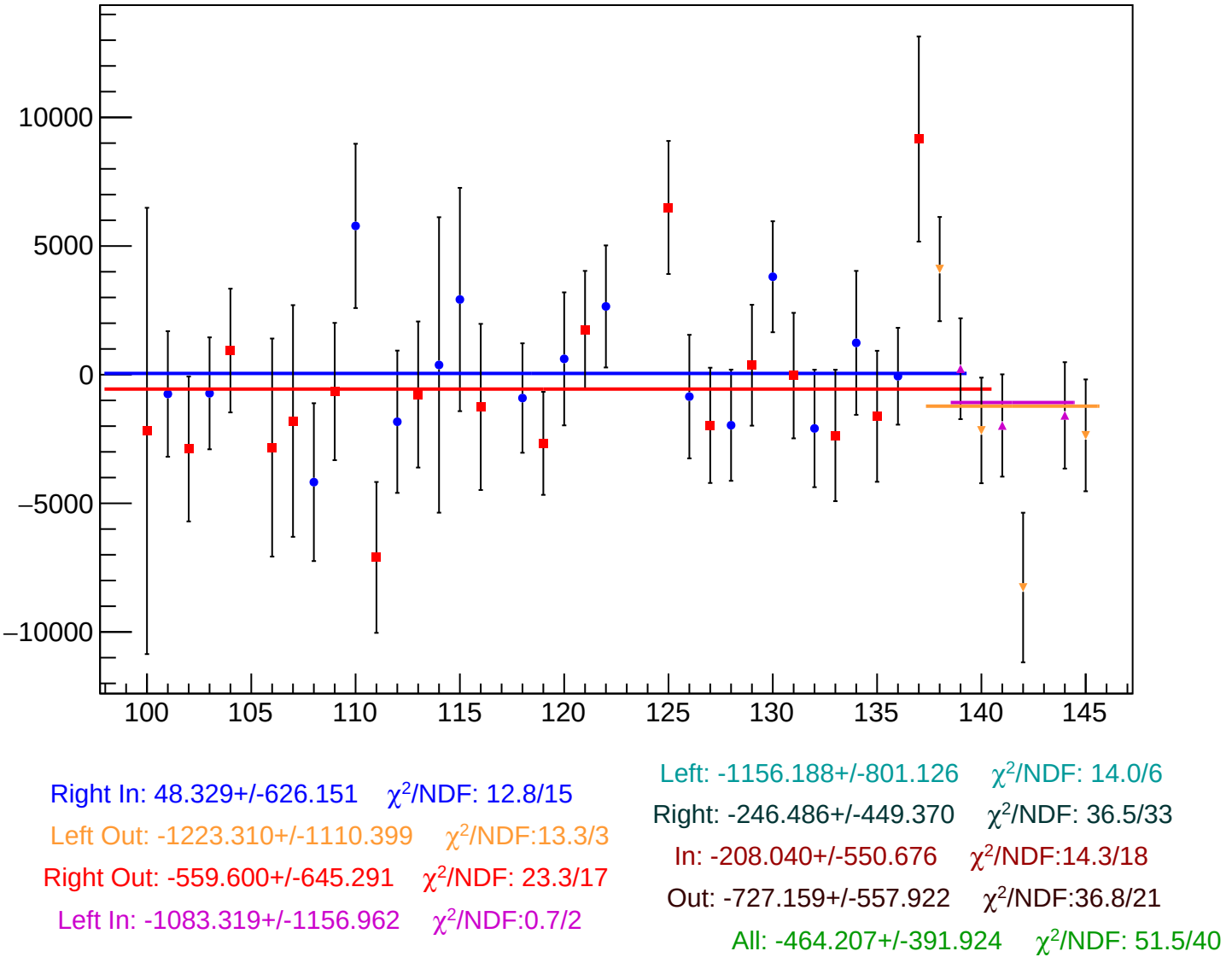
Left: 3977.654+/-1.134 $\chi^2$/NDF: 220616.0/7

Right: 2359.711+/-0.461 $\chi^2$/NDF: 3097643.0/34

In: 2662.246+/-0.641 $\chi^2$/NDF:2395609.9/18

Out: 2531.133+/-0.572 $\chi^2$/NDF:2647748.1/23

All: 2589.206+/-0.427 $\chi^2$/NDF: 5066631.7/42


eigen_dit_asym_atl_dd_mean vs Slug, Sign Corrected
10000
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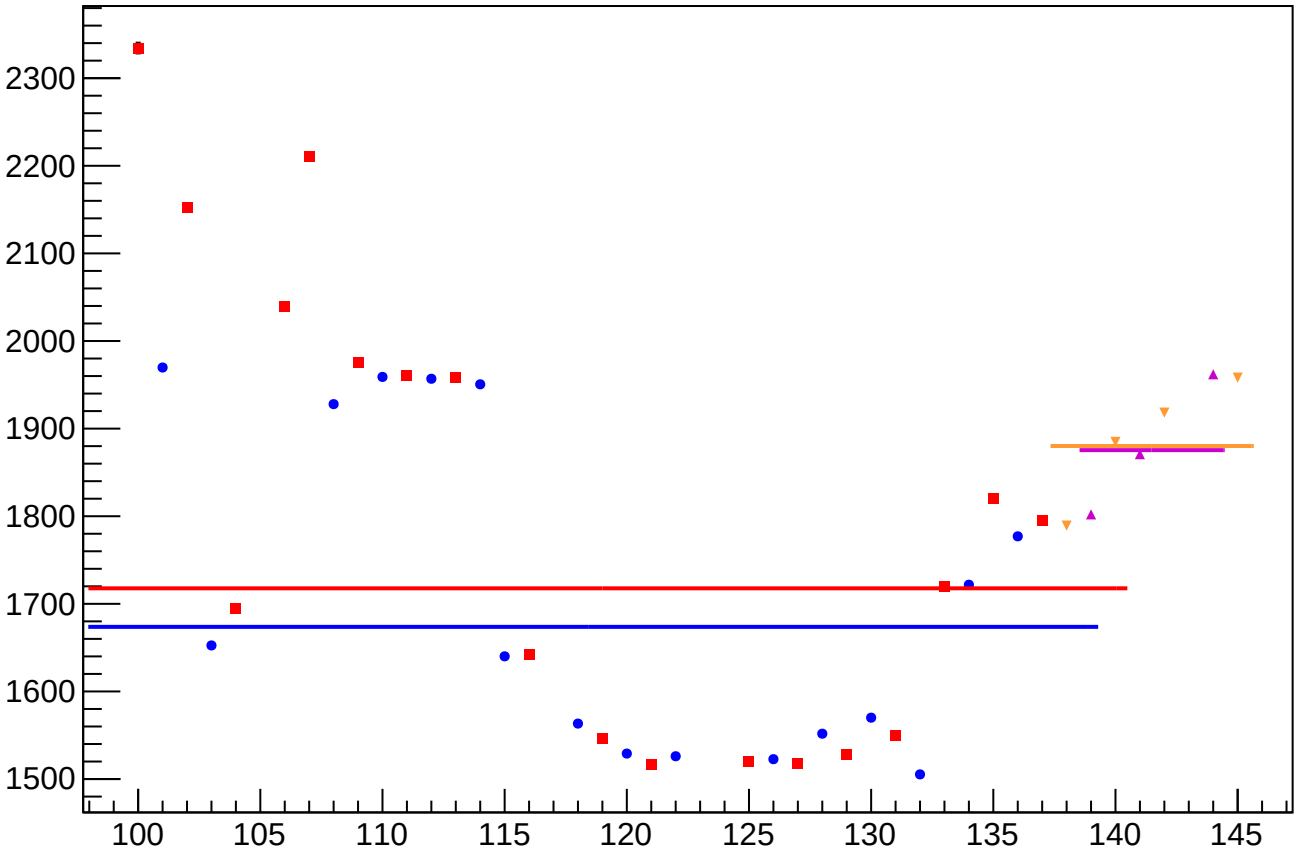
140
145
Right In: 48.329+/-626.151 χ²/NDF: 12.8/15
Left Out: -1223.310+/-1110.399 χ²/NDF:13.3/3
Right Out: -559.600+/-645.291 χ²/NDF: 23.3/17
Left In: -1083.319+/-1156.962 χ²/NDF:0.7/2
Left: -1156.188+/-801.126 χ²/NDF: 14.0/6
Right: -246.486+/-449.370 χ²/NDF: 36.5/33
In: -208.040+/-550.676 χ²/NDF:14.3/18
Out: -727.159+/-557.922 χ²/NDF:36.8/21
All: -464.207+/-391.924 χ²/NDF: 51.5/40




Right In: 1673.728+/-0.443 $\chi^2$/NDF: 140873.1/15

Left Out: 1880.162+/-0.785 $\chi^2$/NDF:6955.7/3

Right Out: 1717.713+/-0.455 $\chi^2$/NDF: 227641.3/17

Left In: 1875.421+/-0.818 $\chi^2$/NDF:6314.2/2

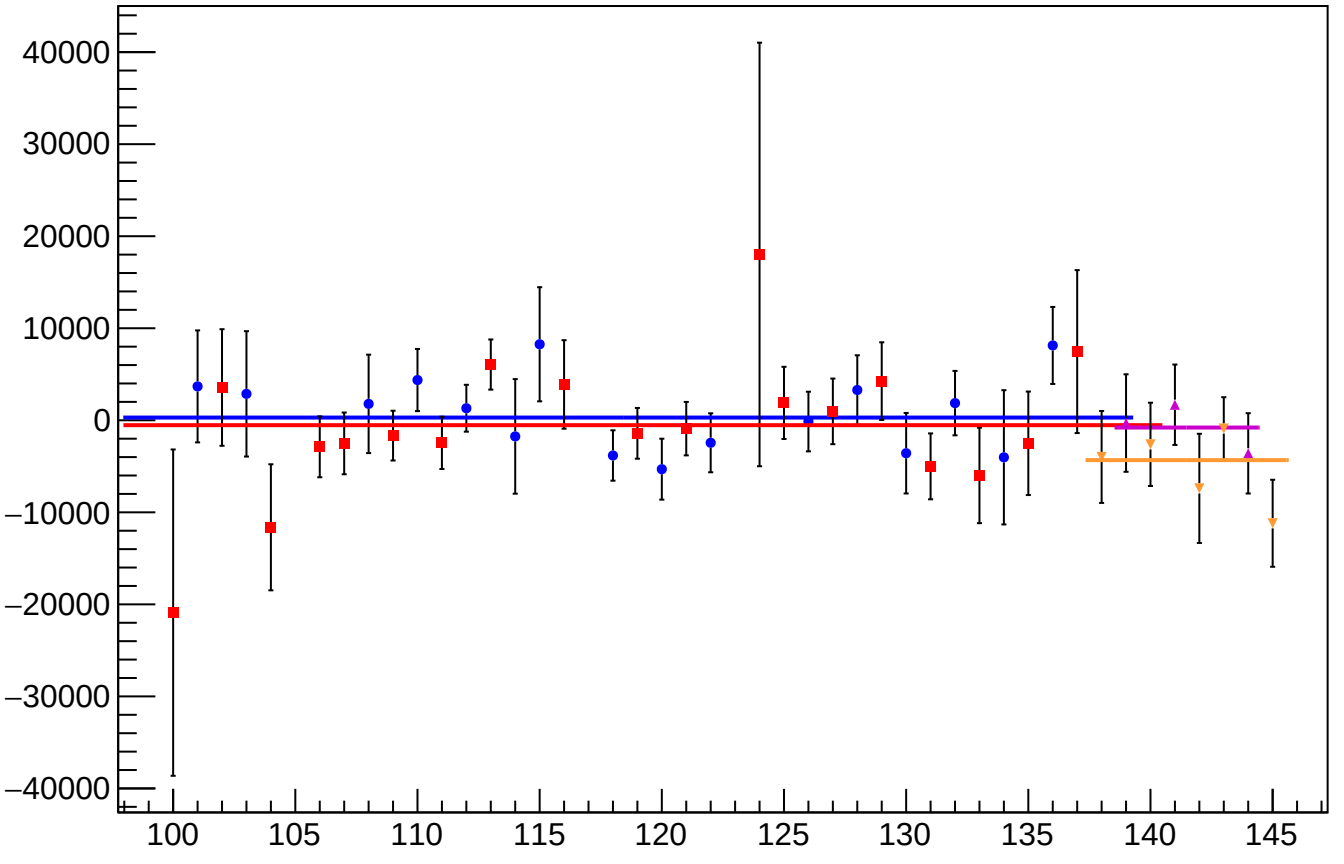
Left: 1877.889+/-0.566 $\chi^2$/NDF: 13287.5/6

Right: 1695.110+/-0.317 $\chi^2$/NDF: 373311.9/33

In: 1719.421+/-0.389 $\chi^2$/NDF:194199.3/18

Out: 1758.583+/-0.394 $\chi^2$/NDF:266633.9/21

All: 1738.780+/-0.277 $\chi^2$/NDF: 465833.4/40




Right In: 296.511+/-964.673 $\chi^2$/NDF: 15.3/15

Left Out: -4328.461+/-2005.809 $\chi^2$/NDF:3.5/4

Right Out: -531.009+/-883.966 $\chi^2$/NDF: 18.8/18

Left In: -787.744+/-2667.004 $\chi^2$/NDF:0.7/2

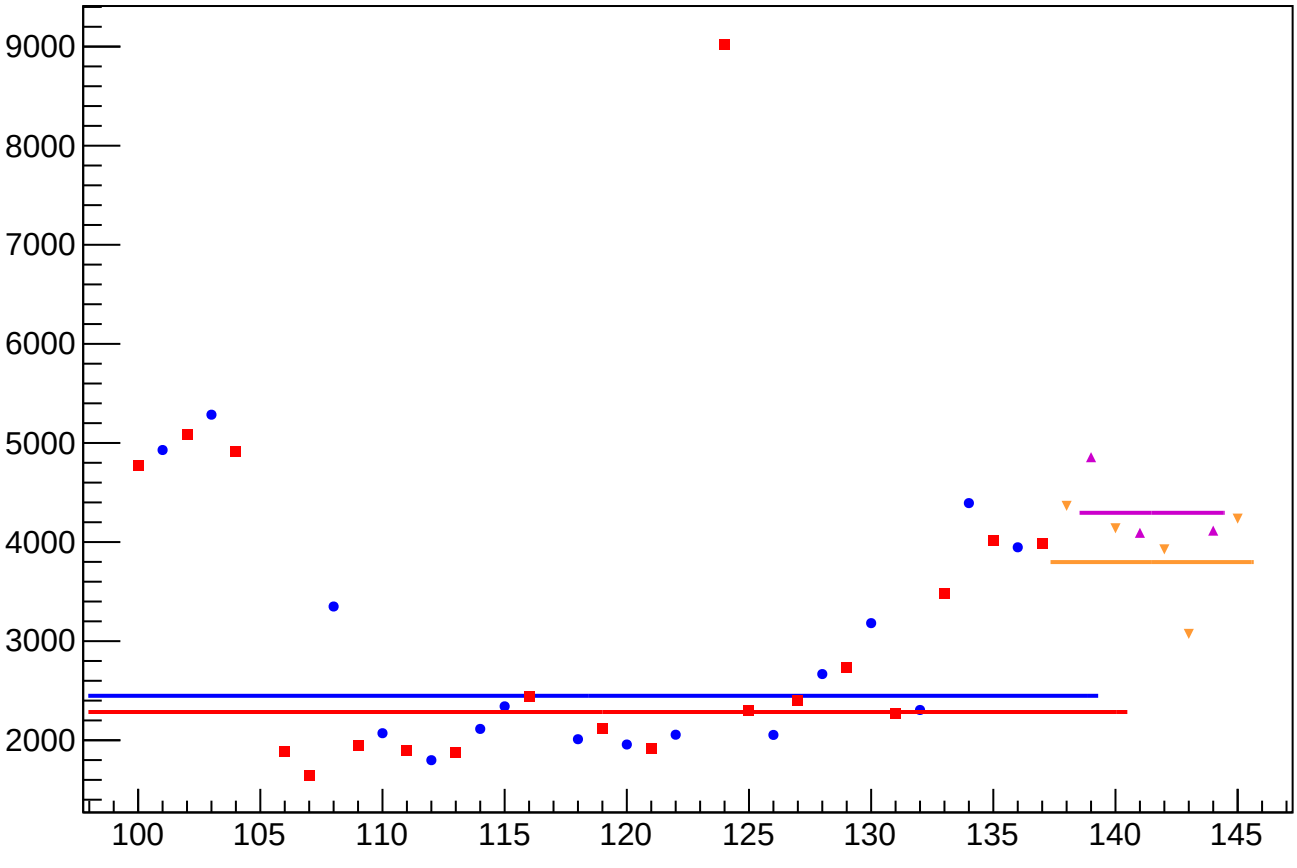
Left: -3049.274+/-1603.043 $\chi^2$/NDF: 5.4/7

Right: -153.308+/-651.726 $\chi^2$/NDF: 34.4/34

In: 171.068+/-907.155 $\chi^2$/NDF:16.1/18

Out: -1148.598+/-808.897 $\chi^2$/NDF:25.3/23

All: -564.080+/-603.738 $\chi^2$/NDF: 42.6/42




Right In: 2448.587+/-0.682 $\chi^2$/NDF: 1517598.4/15

Left Out: 3798.036+/-1.418 $\chi^2$/NDF:146092.9/4

Right Out: 2285.066+/-0.625 $\chi^2$/NDF: 1548827.3/18

Left In: 4295.229+/-1.886 $\chi^2$/NDF:30131.0/2

Left: 3977.661+/-1.134 $\chi^2$/NDF: 220620.0/7

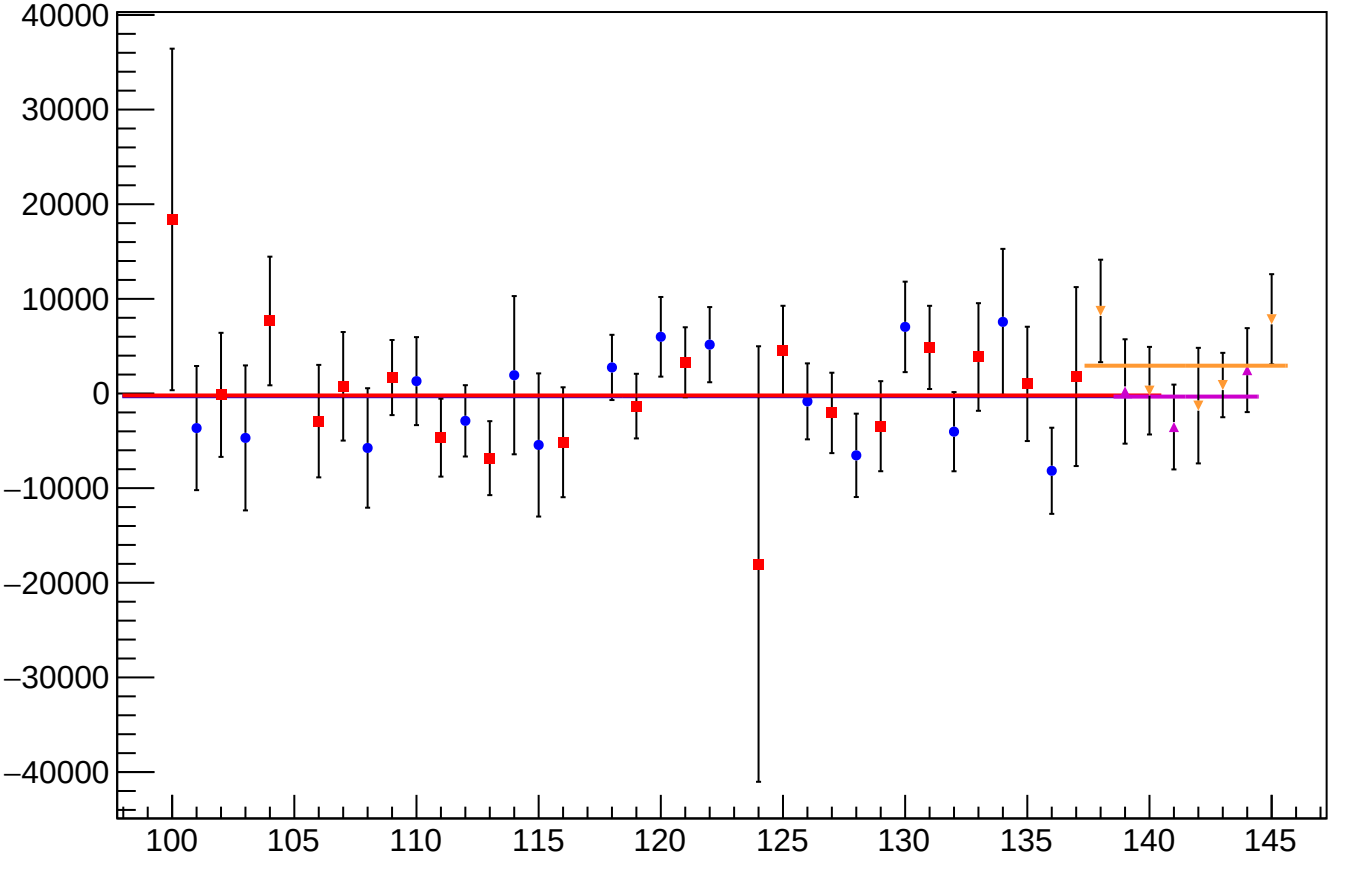
Right: 2359.701+/-0.461 $\chi^2$/NDF: 3097663.3/34

In: 2662.235+/-0.641 $\chi^2$/NDF:2395639.7/18

Out: 2531.124+/-0.572 $\chi^2$/NDF:2647776.3/23

All: 2589.197+/-0.427 $\chi^2$/NDF: 5066689.0/42

# asym_atl_dd_mean vs Slug, Sign Corrected




Right In: -287.276+/-1197.339 $\chi^2$/NDF: 16.6/15

Left Out: 2937.794+/-2049.535 $\chi^2$/NDF:3.4/4

Right Out: -209.473+/-1153.742 $\chi^2$/NDF: 12.9/18

Left In: -327.548+/-2736.980 $\chi^2$/NDF:0.9/2

Left: 1764.617+/-1640.549 $\chi^2$/NDF: 5.2/7

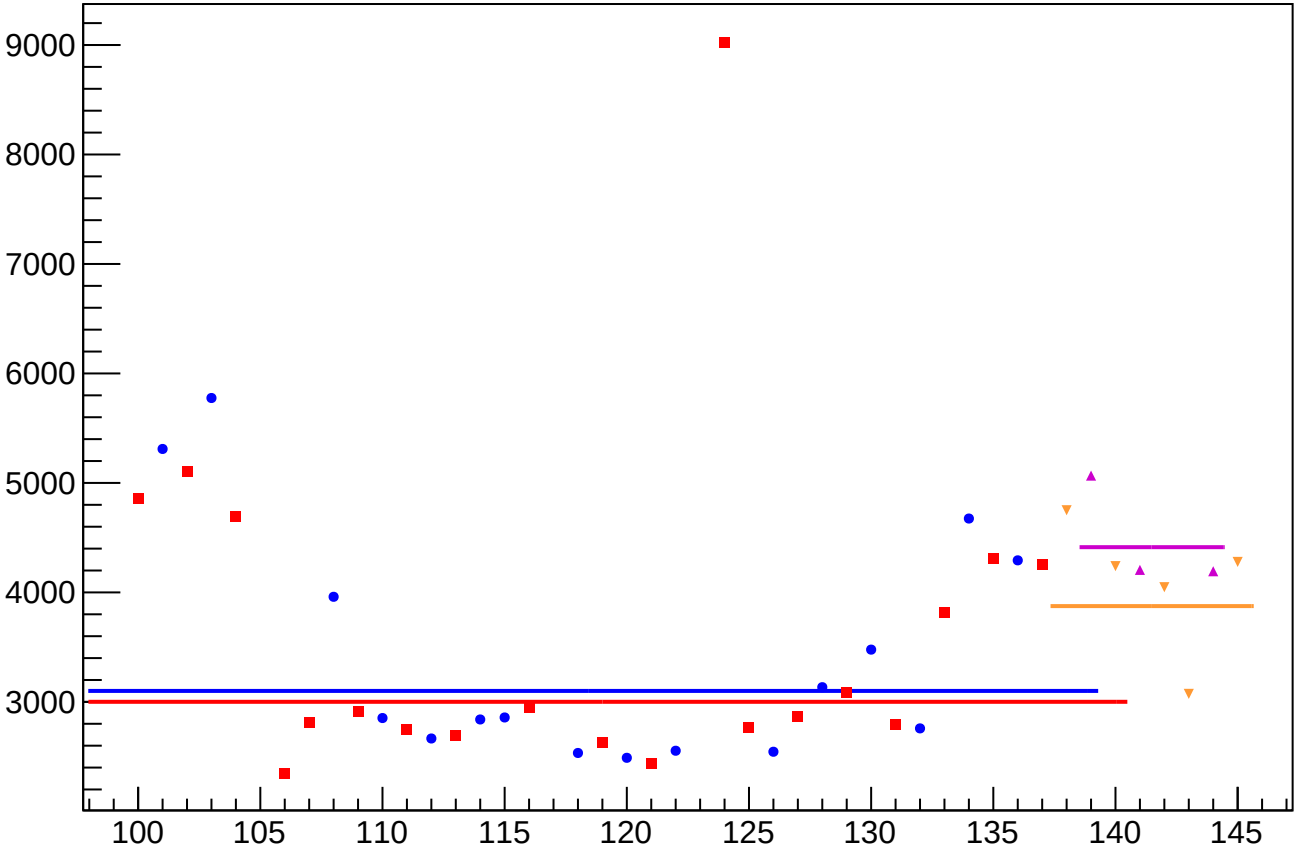
Right: -246.932+/-830.804 $\chi^2$/NDF: 29.4/34

In: -293.745+/-1096.964 $\chi^2$/NDF:17.5/18

Out: 547.868+/-1005.389 $\chi^2$/NDF:18.0/23

All: 163.651+/-741.181 $\chi^2$/NDF: 35.8/42

# asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 3100.135+/-0.847 $\chi^2$/NDF: 963669.6/15

Left Out: 3874.908+/-1.449 $\chi^2$/NDF:191770.7/4

Right Out: 3000.750+/-0.805 $\chi^2$/NDF: 806601.4/18

Left In: 4413.158+/-1.935 $\chi^2$/NDF:37294.3/2

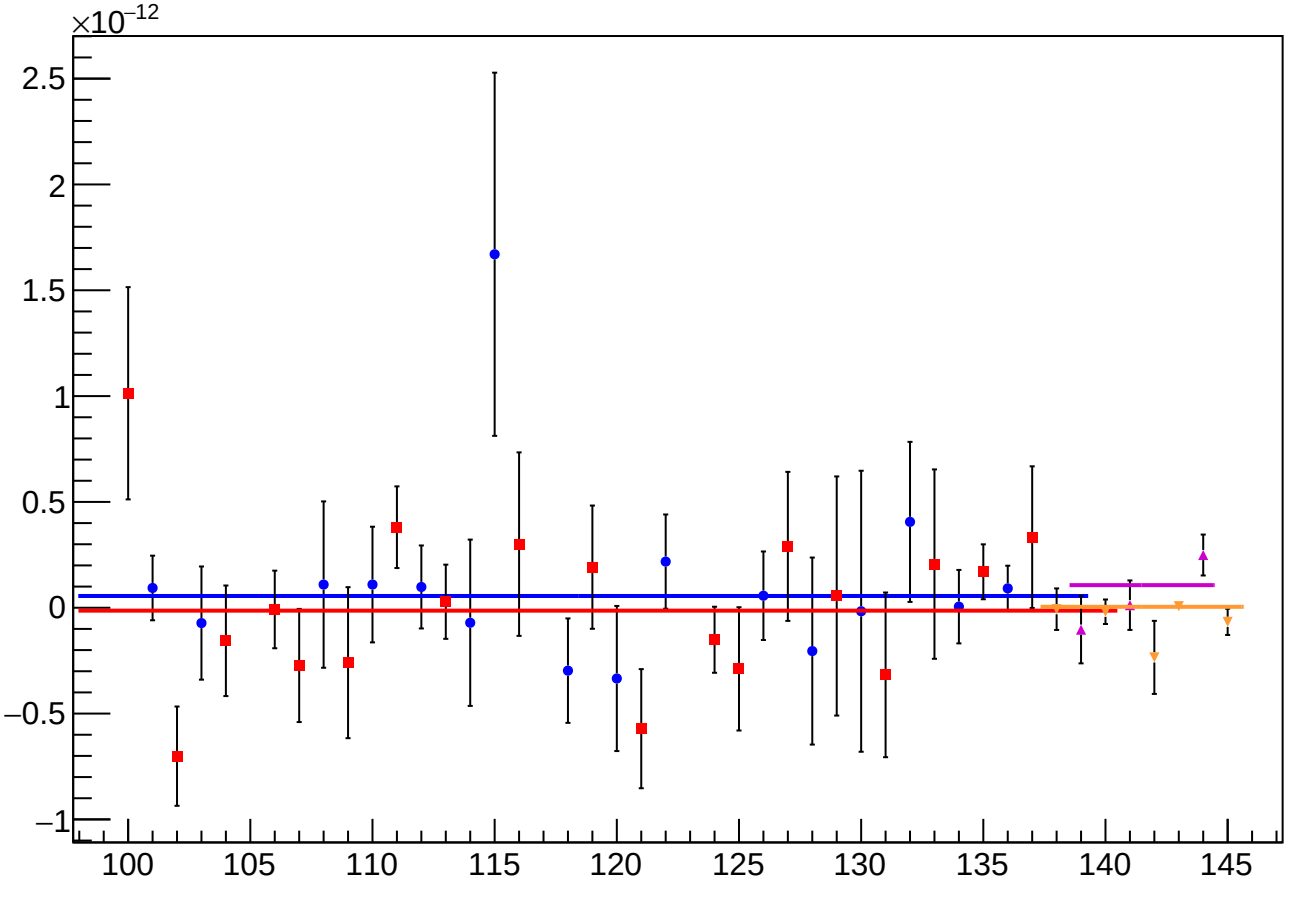
Left: 4068.291+/-1.160 $\chi^2$/NDF: 278623.8/7

Right: 3047.926+/-0.583 $\chi^2$/NDF: 1777509.7/34

In: 3311.052+/-0.776 $\chi^2$/NDF:1387314.8/18

Out: 3206.791+/-0.704 $\chi^2$/NDF:1276446.8/23

All: 3253.854+/-0.521 $\chi^2$/NDF: 2673673.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 30.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.6/2

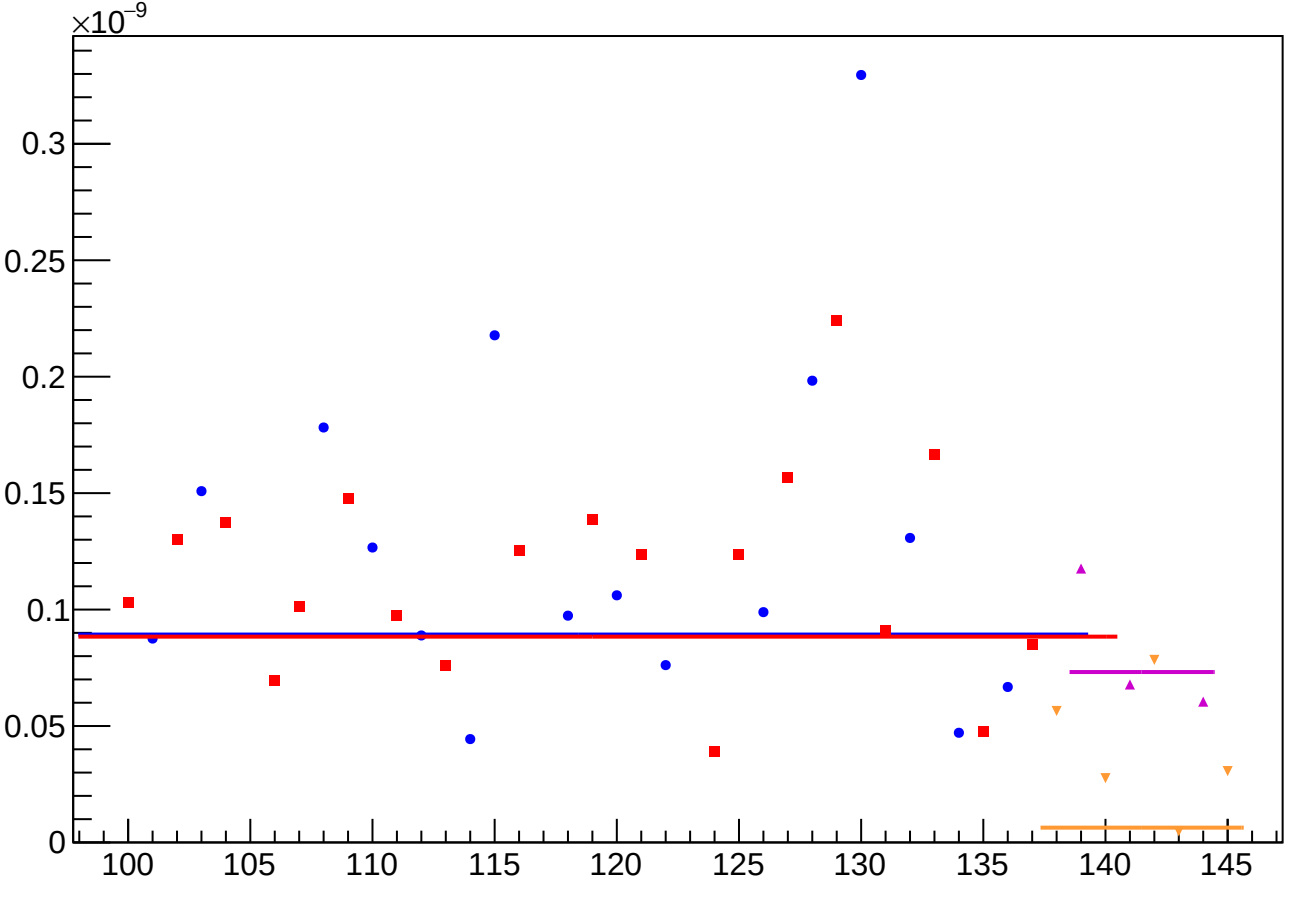
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:14.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:33.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 50.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 949608.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1510516.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1013814.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:194535.0/2

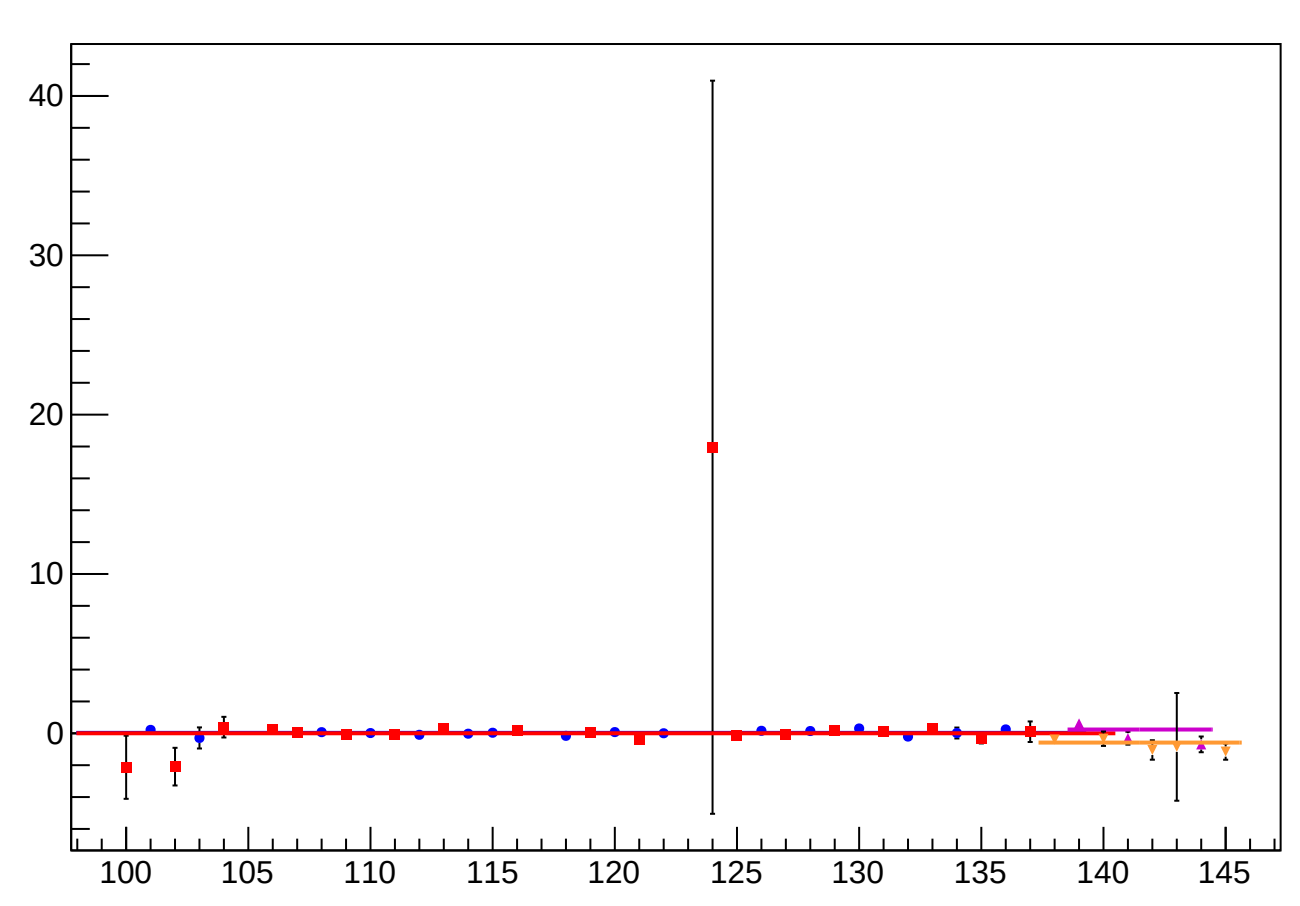
Left: 0.000+/-0.000 $\chi^2$/NDF: 3634649.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 1963677.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1211050.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:6747119.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 13625096.1/42




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: -0.581+/-0.208 $\chi^2$/NDF:2.5/4

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.238+/-0.186 $\chi^2$/NDF:8.1/2

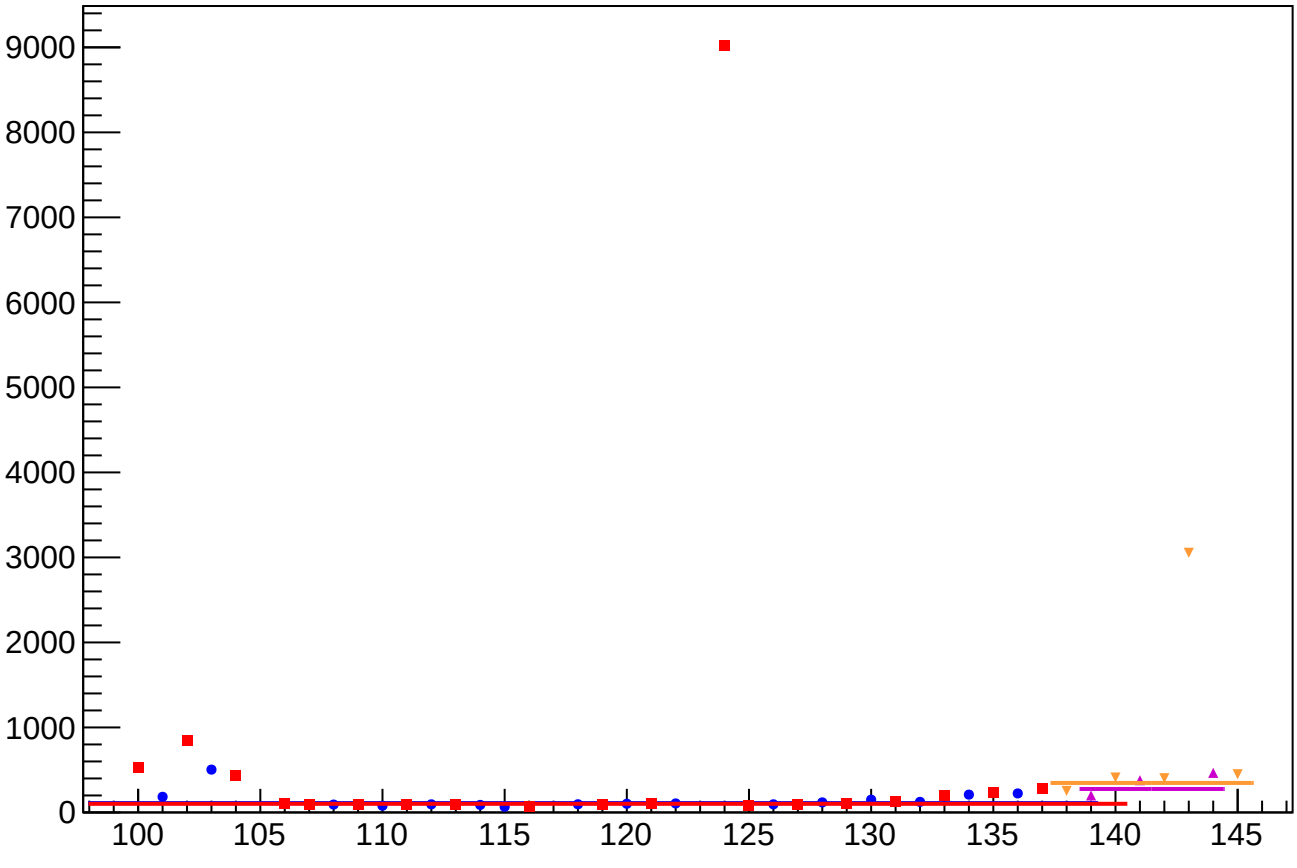
Left: -0.127+/-0.139 $\chi^2$/NDF: 19.3/7

Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.040+/-0.044 $\chi^2$/NDF:18.2/18

Out: -0.021+/-0.042 $\chi^2$/NDF:32.5/23

All: 0.008+/-0.031 $\chi^2$/NDF: 51.7/42




Right In: 109.988+/-0.032 $\chi^2$/NDF: 1930558.2/15

Left Out: 347.195+/-0.147 $\chi^2$/NDF:1624044.5/4

Right Out: 101.852+/-0.031 $\chi^2$/NDF: 2589792.8/18

Left In: 276.224+/-0.132 $\chi^2$/NDF:639037.6/2

Left: 307.862+/-0.098 $\chi^2$/NDF: 2392473.6/7

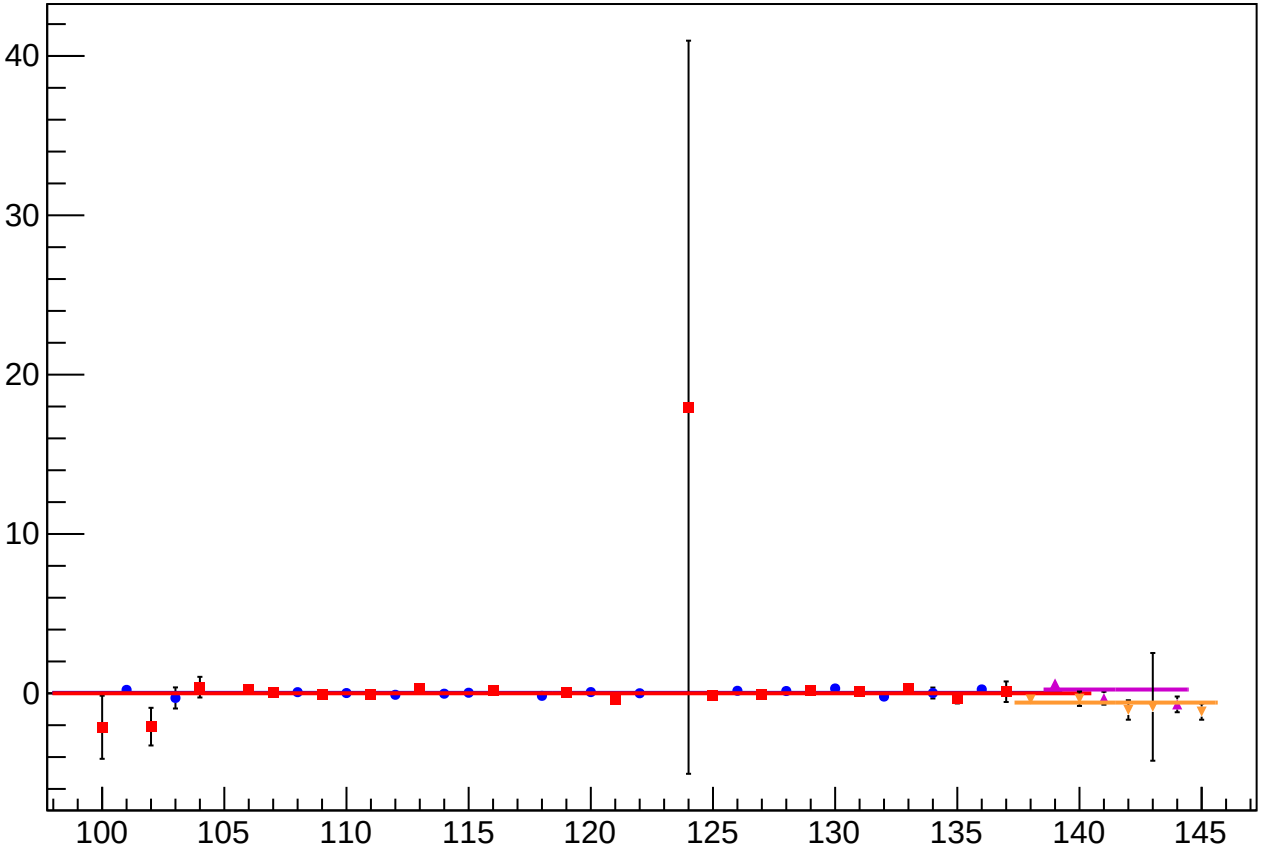
Right: 105.743+/-0.022 $\chi^2$/NDF: 4554008.7/34

In: 119.269+/-0.031 $\chi^2$/NDF:4073152.2/18

Out: 112.101+/-0.030 $\chi^2$/NDF:6887388.6/23

All: 115.555+/-0.022 $\chi^2$/NDF: 10988011.3/42

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: -0.581+/-0.208 $\chi^2$/NDF:2.5/4

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.238+/-0.186 $\chi^2$/NDF:8.1/2

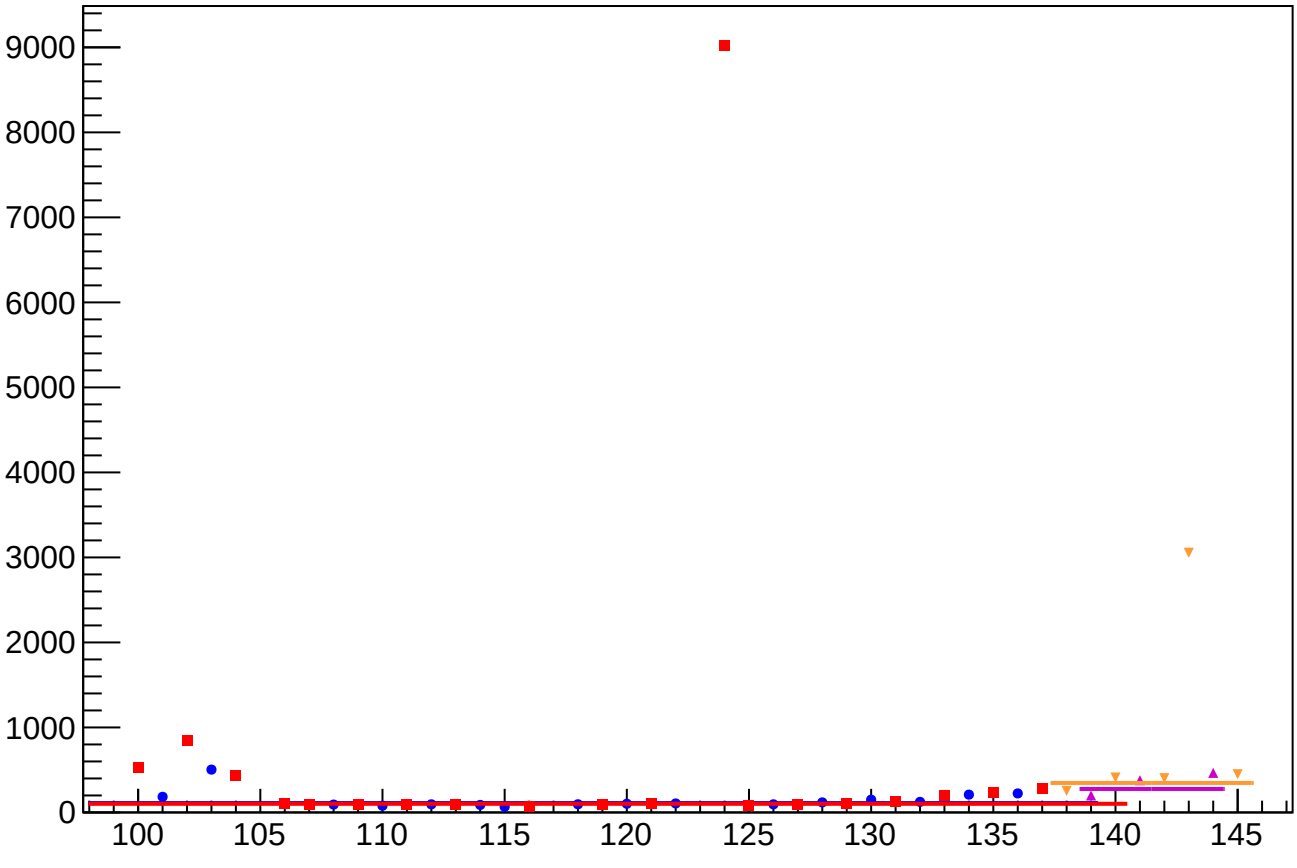
Left: -0.127+/-0.139 $\chi^2$/NDF: 19.3/7

Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.040+/-0.044 $\chi^2$/NDF:18.2/18

Out: -0.021+/-0.042 $\chi^2$/NDF:32.5/23

All: 0.008+/-0.031 $\chi^2$/NDF: 51.7/42




Right In: 109.988+/-0.032 $\chi^2$/NDF: 1930558.2/15

Left Out: 347.195+/-0.147 $\chi^2$/NDF:1624044.5/4

Right Out: 101.852+/-0.031 $\chi^2$/NDF: 2589792.8/18

Left In: 276.224+/-0.132 $\chi^2$/NDF:639037.6/2

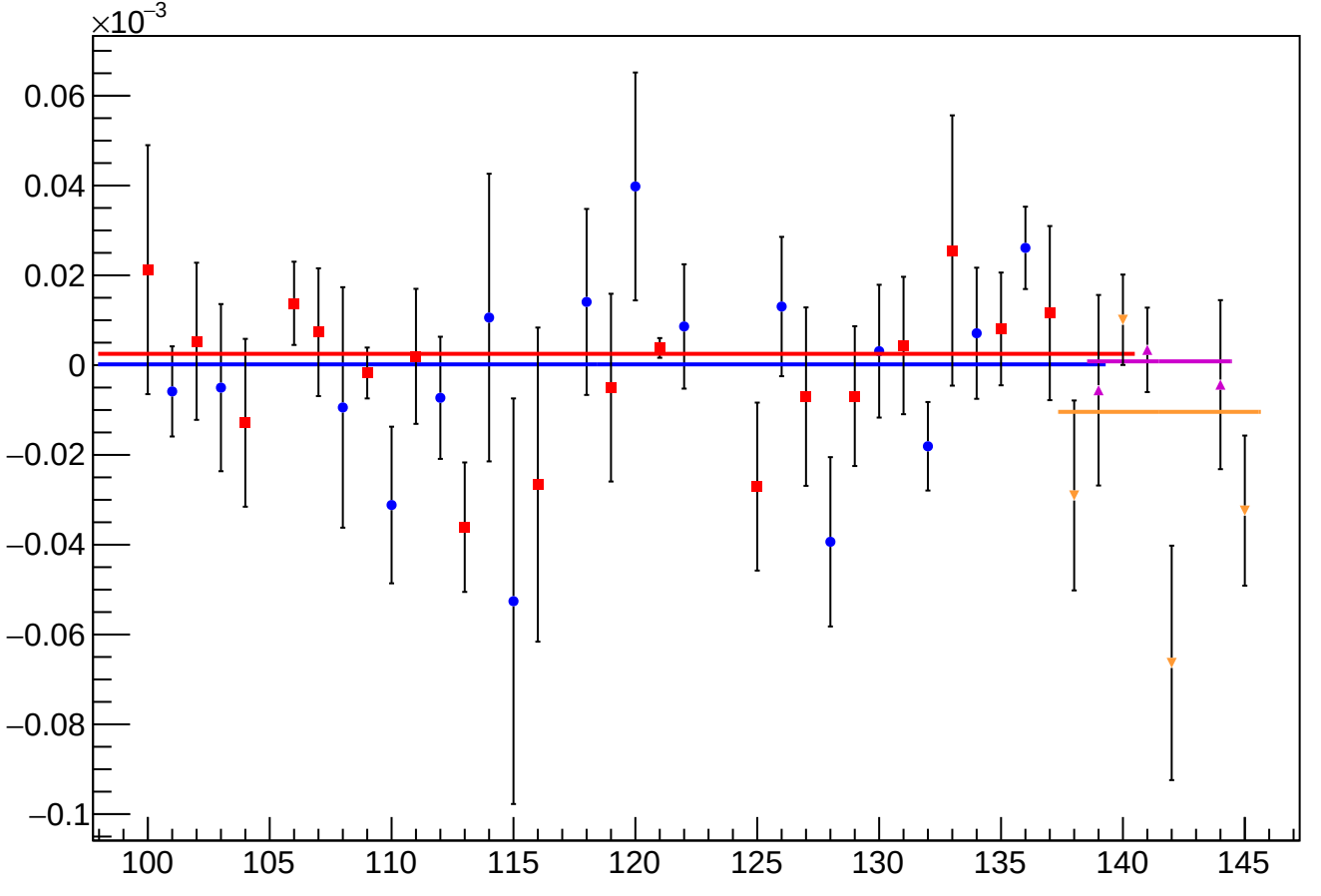
Left: 307.862+/-0.098 $\chi^2$/NDF: 2392473.6/7

Right: 105.743+/-0.022 $\chi^2$/NDF: 4554008.7/34

In: 119.269+/-0.031 $\chi^2$/NDF:4073152.2/18

Out: 112.101+/-0.030 $\chi^2$/NDF:6887388.6/23

All: 115.555+/-0.022 $\chi^2$/NDF: 10988011.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 25.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:11.2/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.2/2

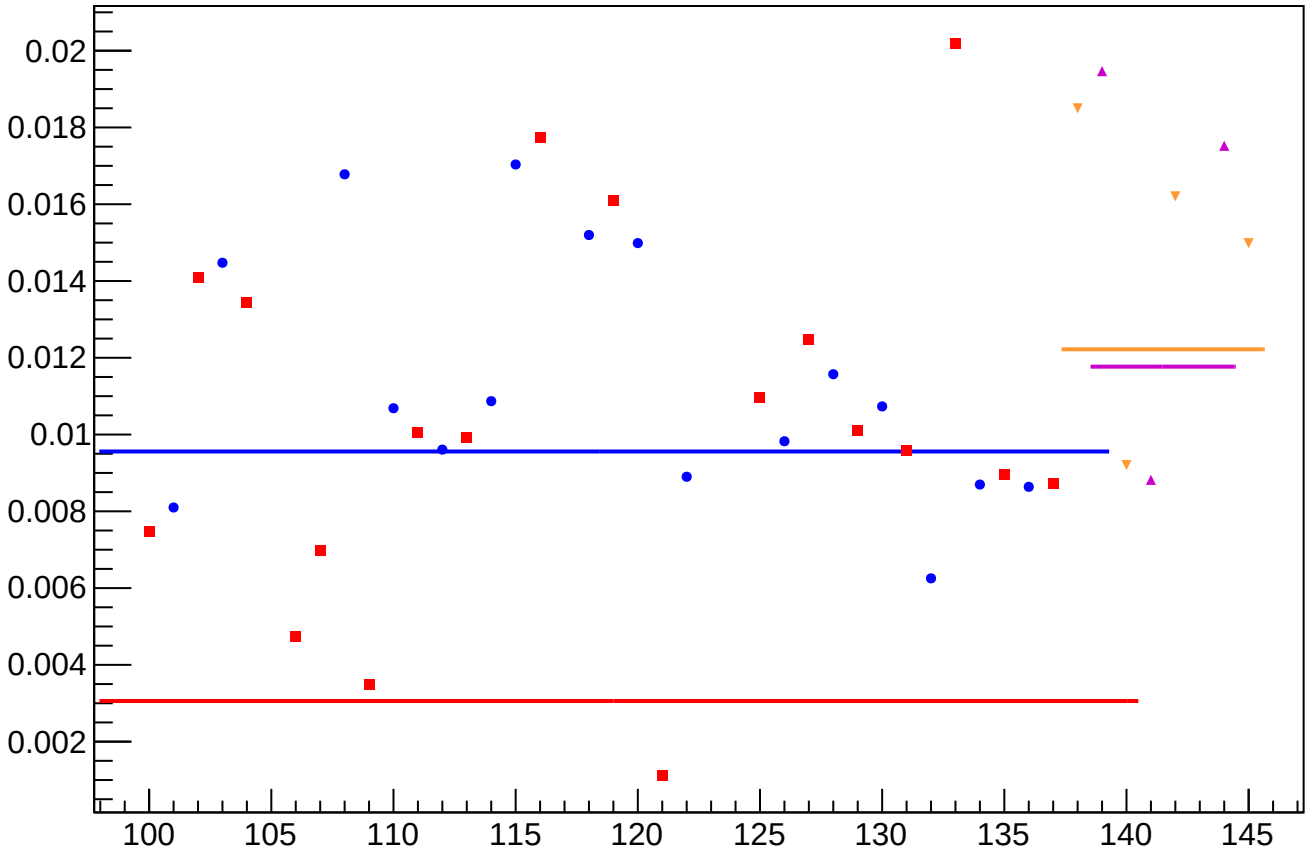
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.5/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 41.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:25.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:29.7/21

All: 0.000+/-0.000 $\chi^2$/NDF: 55.7/40




Right In: 0.010+/-0.000 $\chi^2$/NDF: 926018.8/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:457265.6/3

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 8122378.4/17

Left In: 0.012+/-0.000 $\chi^2$/NDF:646724.8/2

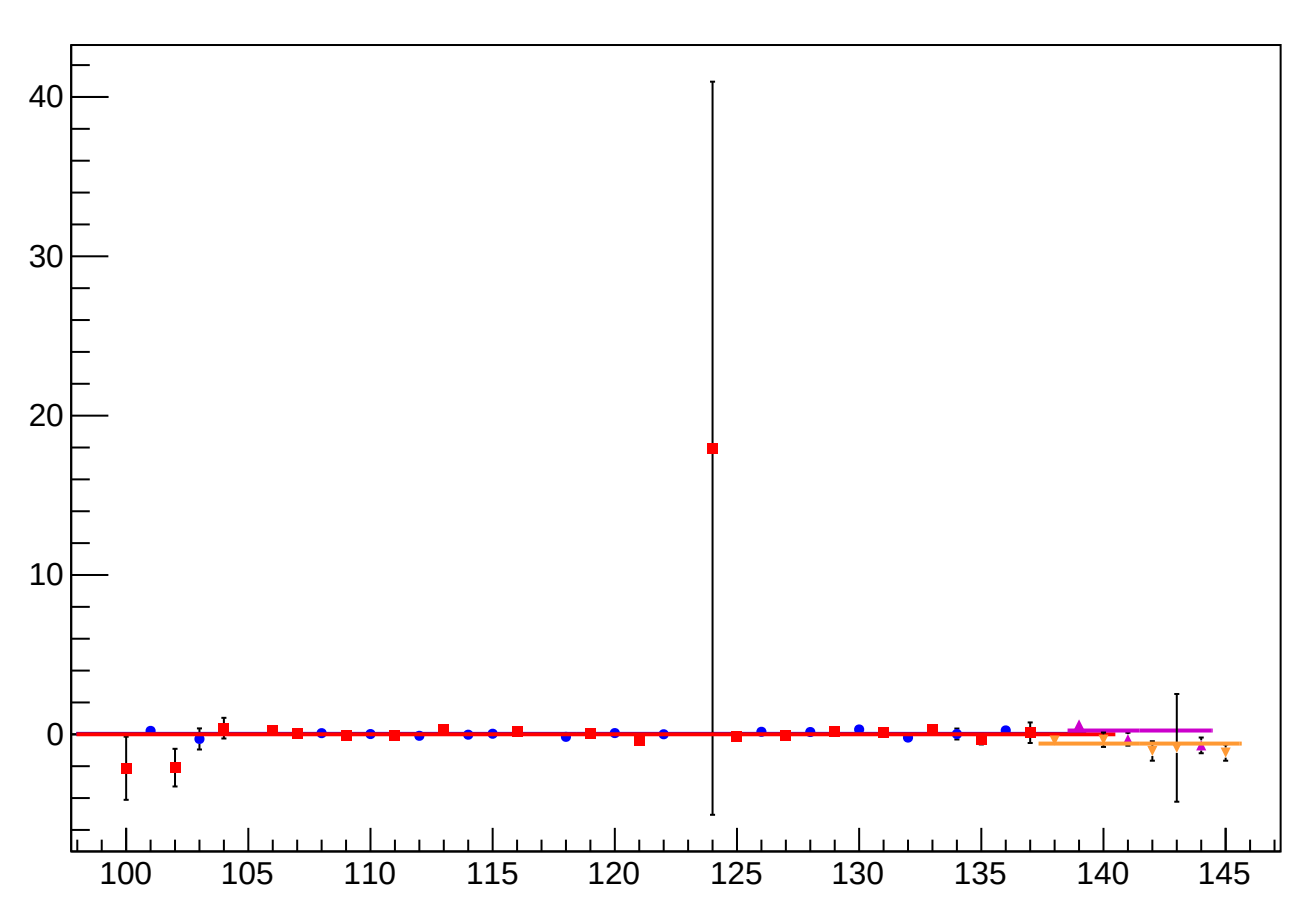
Left: 0.012+/-0.000 $\chi^2$/NDF: 1107409.5/6

Right: 0.004+/-0.000 $\chi^2$/NDF: 13944710.4/33

In: 0.010+/-0.000 $\chi^2$/NDF:1702903.9/18

Out: 0.004+/-0.000 $\chi^2$/NDF:11303792.2/21

All: 0.005+/-0.000 $\chi^2$/NDF: 18679472.9/40




Right In: 0.028+/-0.045 $\chi^2$/NDF: 8.9/15

Left Out: -0.581+/-0.208 $\chi^2$/NDF:2.5/4

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.238+/-0.186 $\chi^2$/NDF:8.1/2

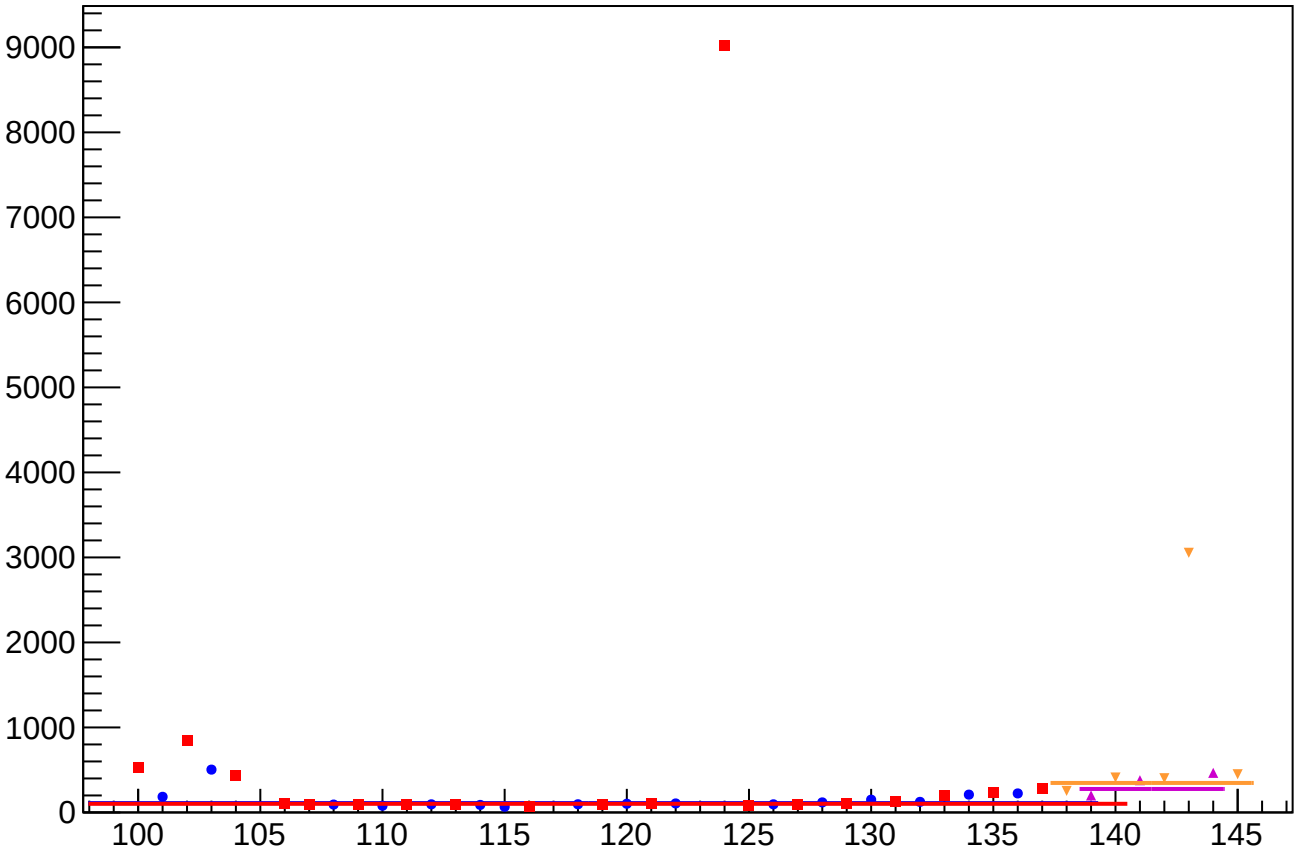
Left: -0.127+/-0.139 $\chi^2$/NDF: 19.3/7

Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.040+/-0.044 $\chi^2$/NDF:18.2/18

Out: -0.021+/-0.042 $\chi^2$/NDF:32.5/23

All: 0.008+/-0.031 $\chi^2$/NDF: 51.7/42




Right In: 109.989+/-0.032 $\chi^2$/NDF: 1930489.2/15

Left Out: 347.200+/-0.147 $\chi^2$/NDF:1624054.0/4

Right Out: 101.853+/-0.031 $\chi^2$/NDF: 2589710.5/18

Left In: 276.232+/-0.132 $\chi^2$/NDF:639012.8/2

Left: 307.869+/-0.098 $\chi^2$/NDF: 2392443.7/7

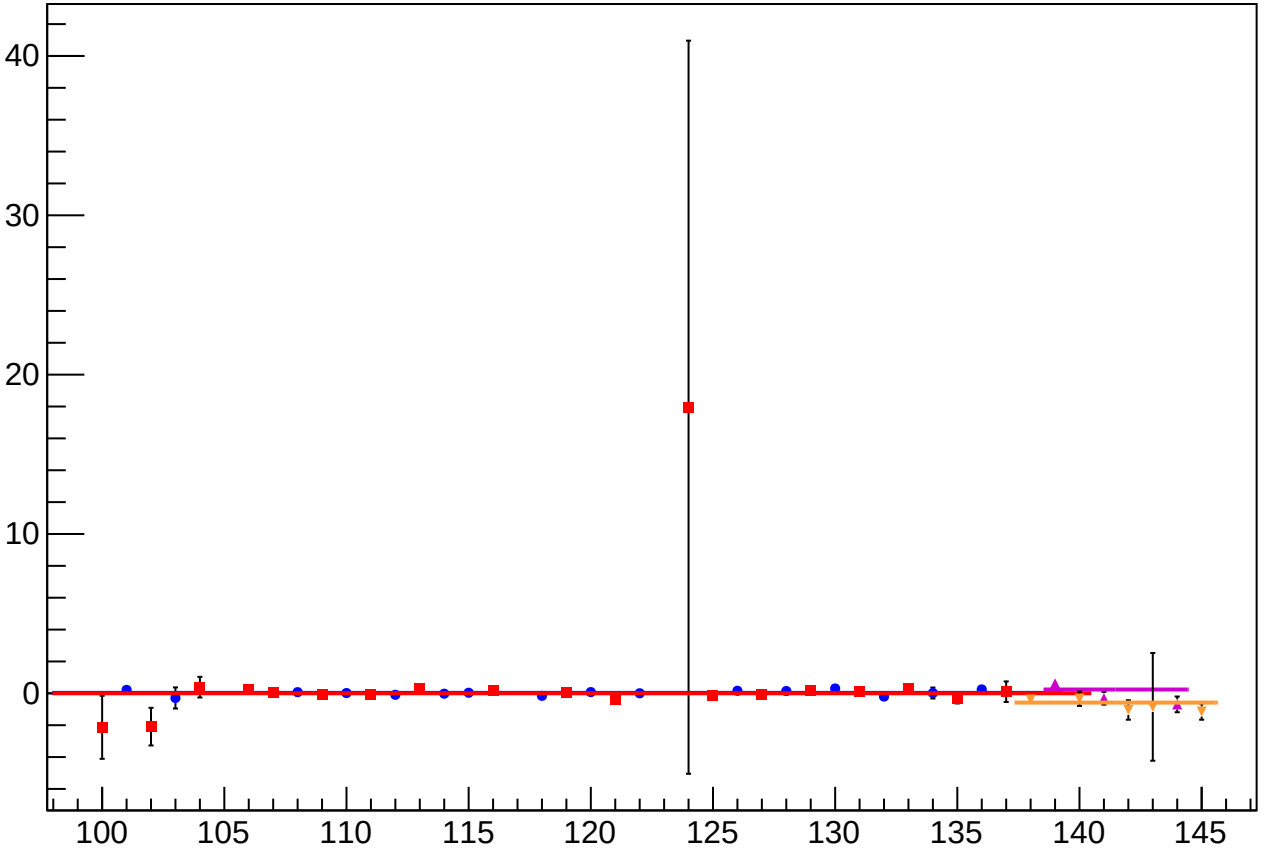
Right: 105.744+/-0.022 $\chi^2$/NDF: 4553853.6/34

In: 119.270+/-0.031 $\chi^2$/NDF:4073109.6/18

Out: 112.103+/-0.030 $\chi^2$/NDF:6887320.8/23

All: 115.557+/-0.022 $\chi^2$/NDF: 10987897.5/42

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: -0.581+/-0.208 $\chi^2$/NDF:2.5/4

Right Out: 0.003+/-0.043 $\chi^2$/NDF: 22.4/18

Left In: 0.238+/-0.186 $\chi^2$/NDF:8.1/2

Left: -0.127+/-0.139 $\chi^2$/NDF: 19.3/7

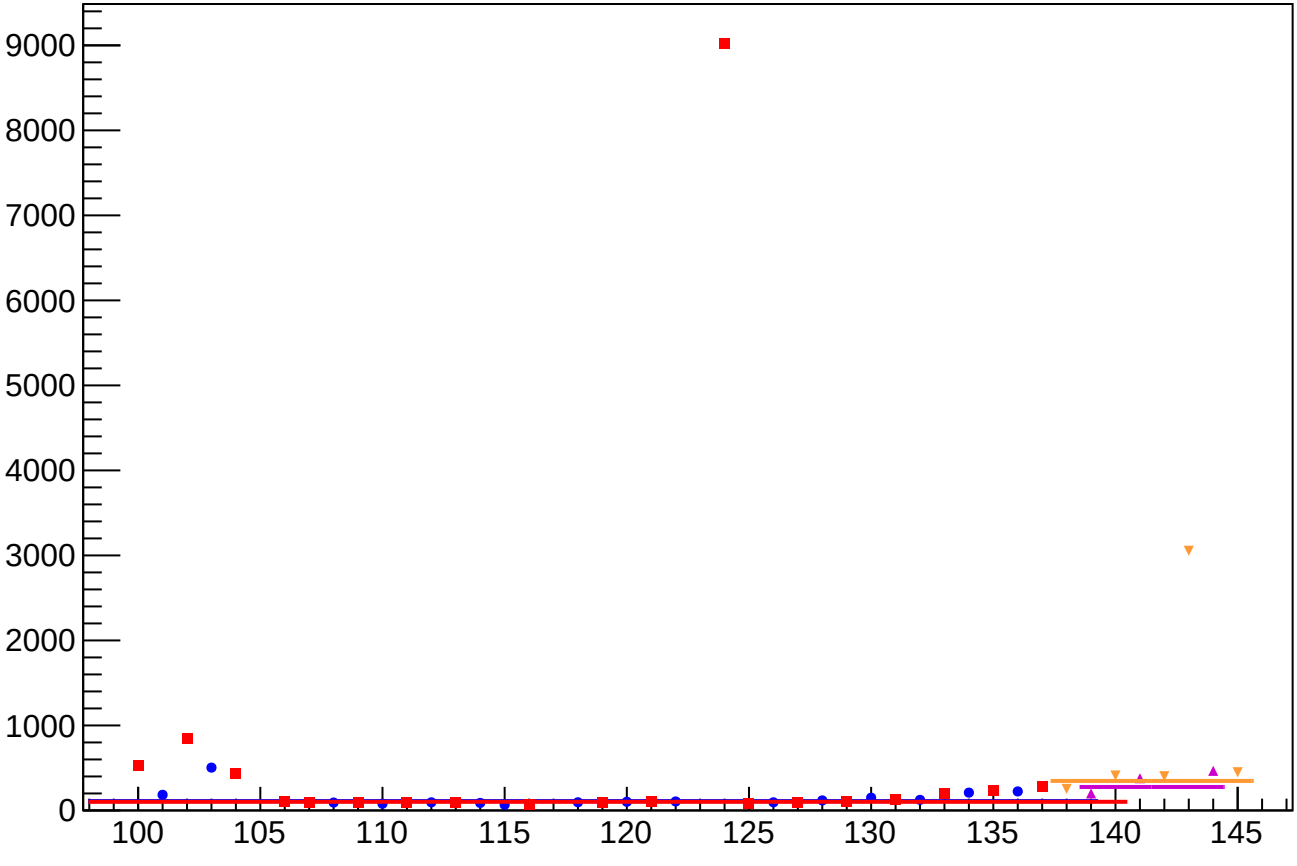
Right: 0.015+/-0.031 $\chi^2$/NDF: 31.4/34

In: 0.040+/-0.044 $\chi^2$/NDF:18.2/18

Out: -0.021+/-0.042 $\chi^2$/NDF:32.5/23

All: 0.008+/-0.031 $\chi^2$/NDF: 51.7/42

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: 347.200+/-0.147 $\chi^2$/NDF:1624054.0/4

Right Out: 101.853+/-0.031 $\chi^2$/NDF: 2589710.5/18

Left In: 276.232+/-0.132 $\chi^2$/NDF:639012.8/2

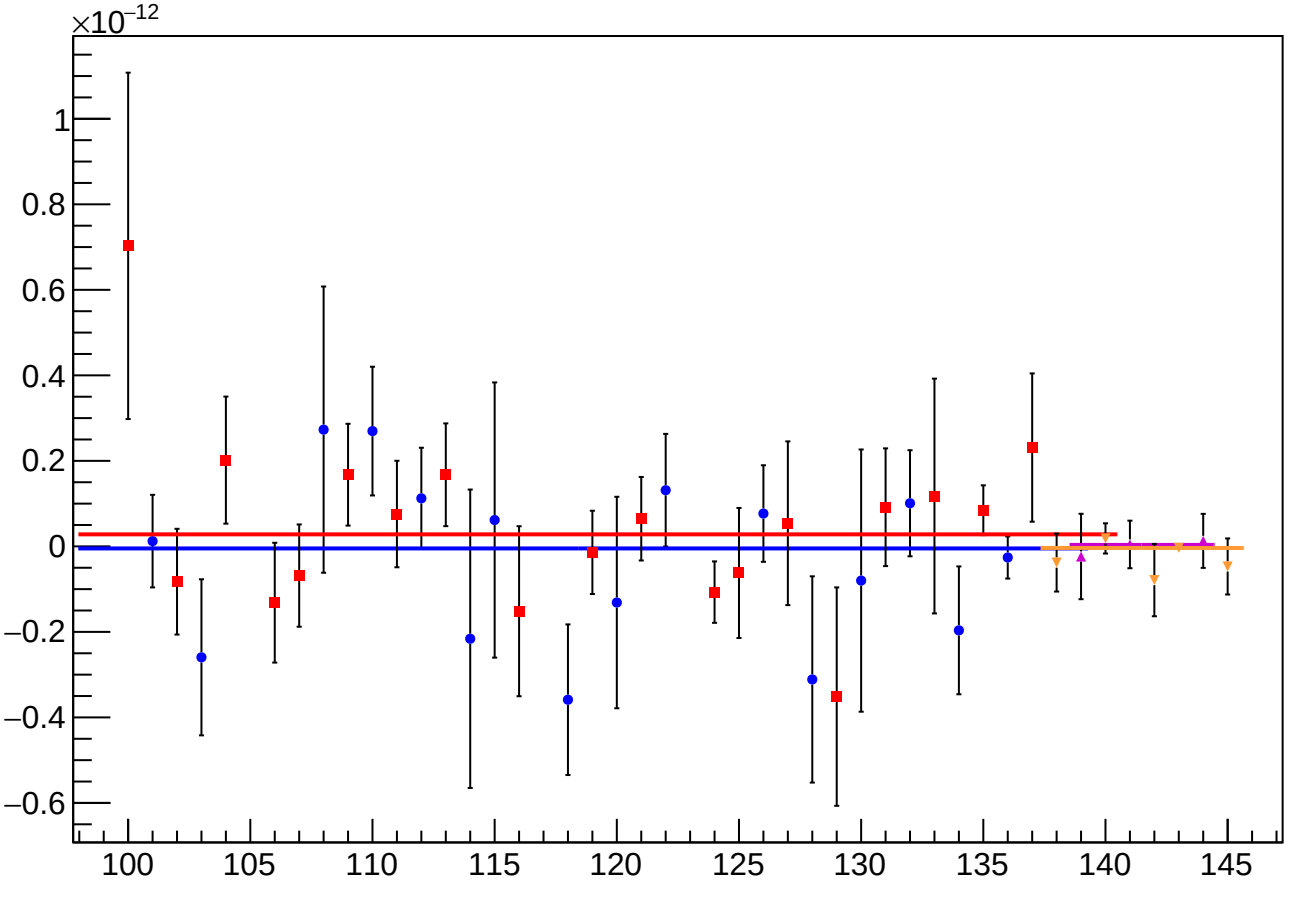
Left: 307.869+/-0.098 $\chi^2$/NDF: 2392443.7/7

Right: 105.744+/-0.022 $\chi^2$/NDF: 4553853.6/34

In: 119.270+/-0.031 $\chi^2$/NDF:4073109.6/18

Out: 112.103+/-0.030 $\chi^2$/NDF:6887320.8/23

All: 115.557+/-0.022 $\chi^2$/NDF: 10987897.5/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.1/2

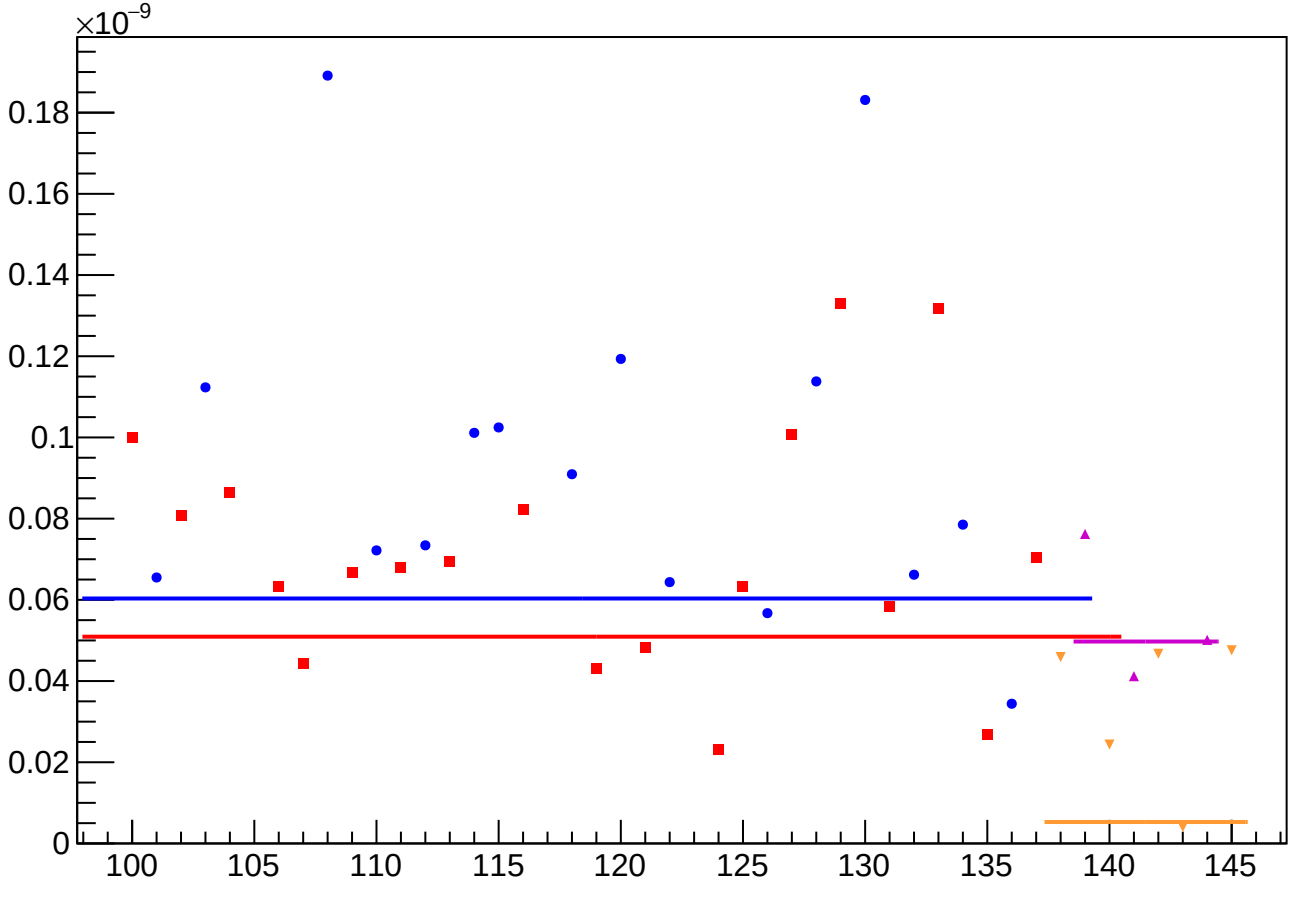
Left: -0.000+/-0.000 $\chi^2$/NDF: 2.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:22.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 40.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1746170.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2711505.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1667004.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:187985.1/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 5508990.1/7

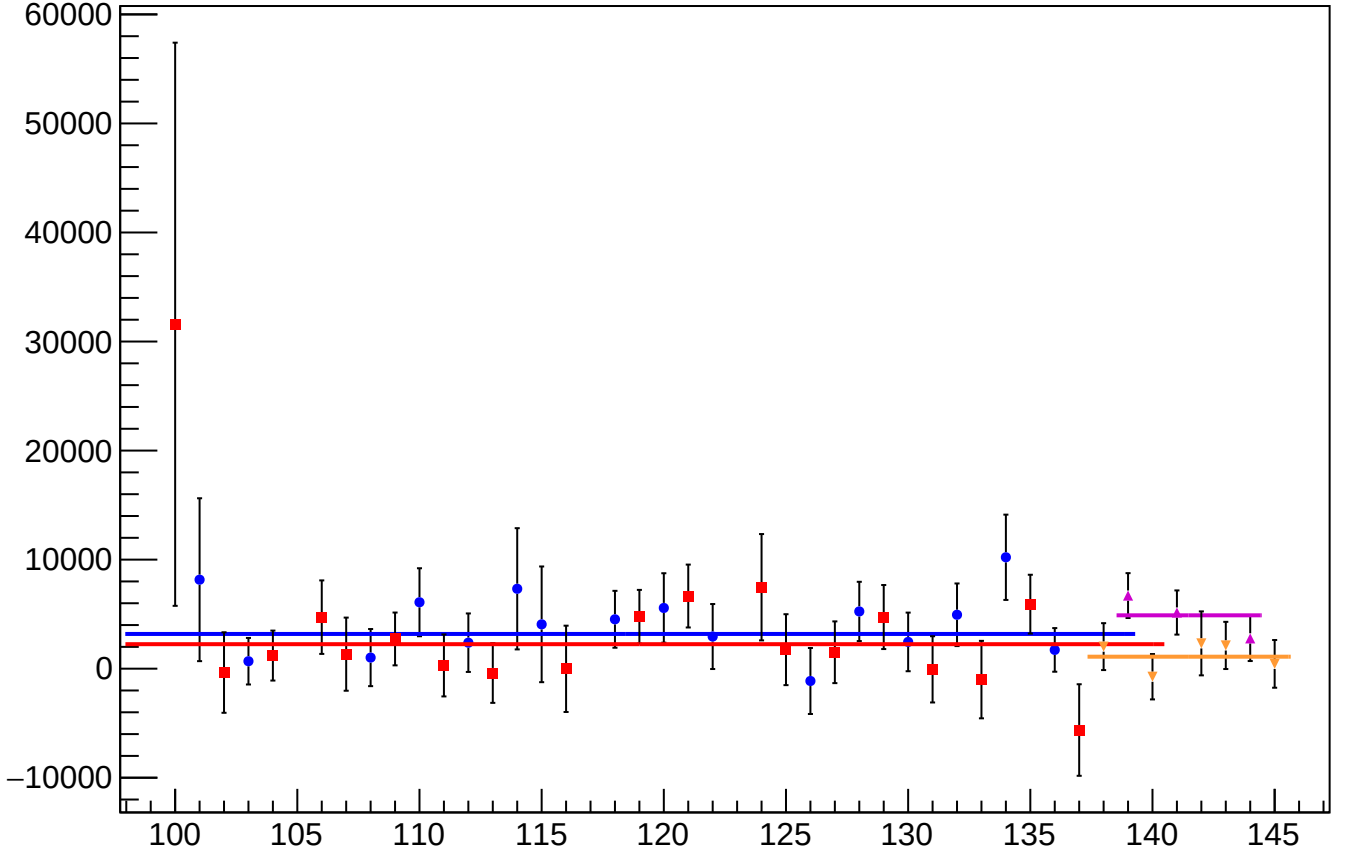
Right: 0.000+/-0.000 $\chi^2$/NDF: 3514375.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2024339.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:9787189.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 19429909.6/42

# reg_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3183.705+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 1098.421+/-1006.885 $\chi^2$/NDF:1.5/4

Right Out: 2246.057+/-710.912 $\chi^2$/NDF: 16.5/18

Left In: 4892.790+/-1185.340 $\chi^2$/NDF:1.8/2

Left: 2688.764+/-767.394 $\chi^2$/NDF: 9.2/7

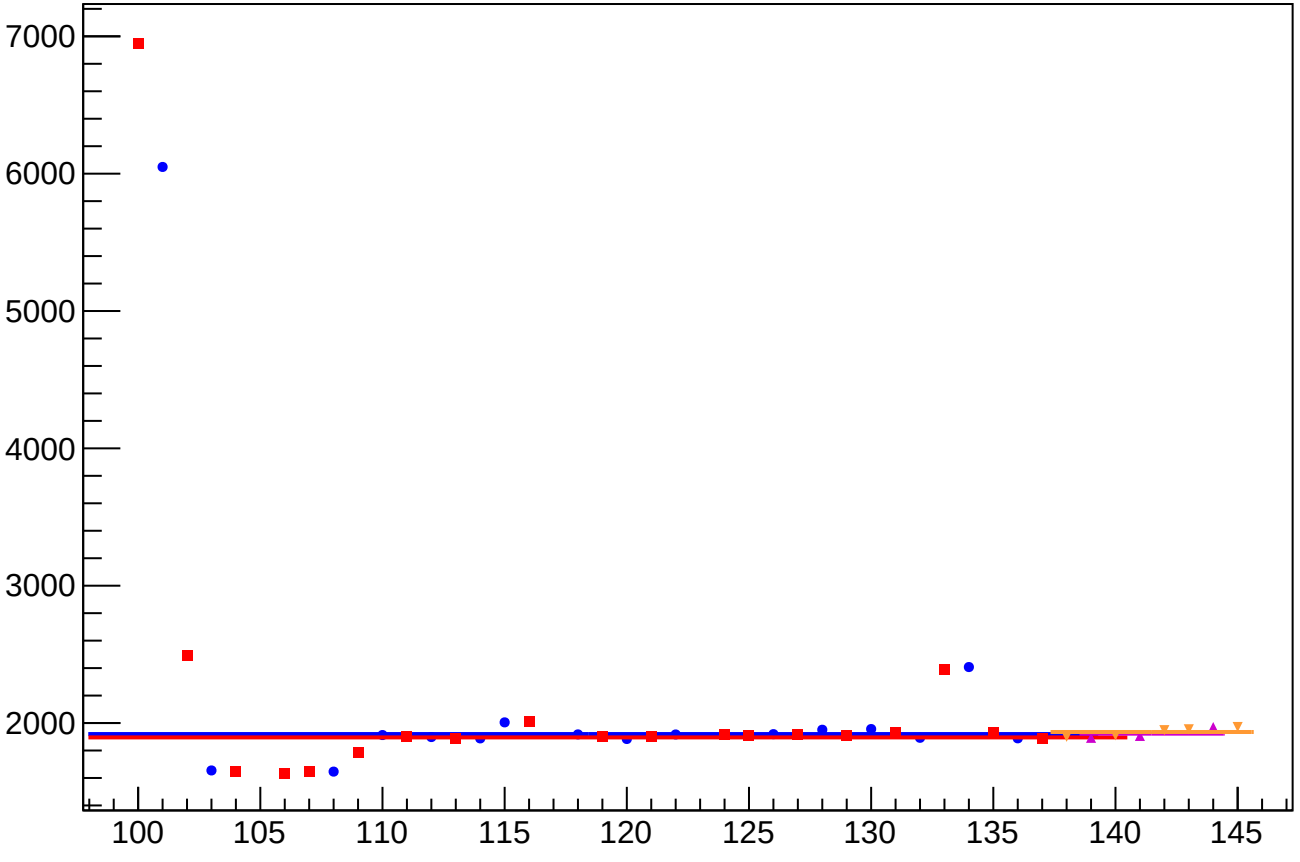
Right: 2701.735+/-509.689 $\chi^2$/NDF: 29.1/34

In: 3654.734+/-622.278 $\chi^2$/NDF:15.0/18

Out: 1864.274+/-580.746 $\chi^2$/NDF:18.8/23

All: 2697.765+/-424.573 $\chi^2$/NDF: 38.3/42

# reg_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697331.5/15

Left Out: 1934.803+/-0.712 $\chi^2$/NDF:1577.5/4

Right Out: 1895.361+/-0.501 $\chi^2$/NDF: 222273.9/18

Left In: 1922.692+/-0.838 $\chi^2$/NDF:1632.1/2

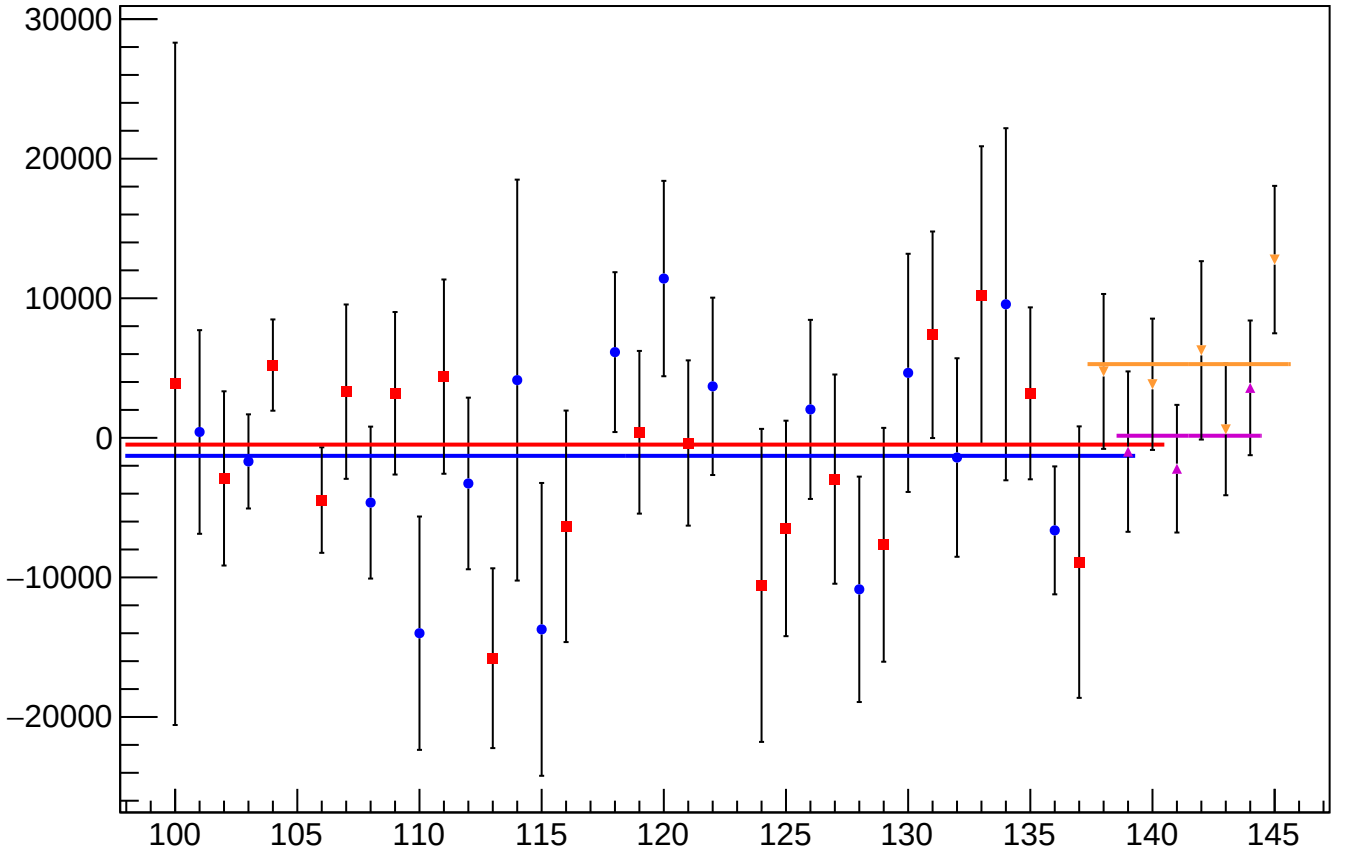
Left: 1929.727+/-0.543 $\chi^2$/NDF: 3330.8/7

Right: 1907.209+/-0.360 $\chi^2$/NDF: 920760.5/34

In: 1920.617+/-0.440 $\chi^2$/NDF:698972.0/18

Out: 1908.422+/-0.410 $\chi^2$/NDF:225904.0/23

All: 1914.085+/-0.300 $\chi^2$/NDF: 925287.5/42




Right In: -1290.495+/-1585.432 $\chi^2$/NDF: 14.3/15

Left Out: 5280.987+/-2337.751 $\chi^2$/NDF:3.1/4

Right Out: -485.214+/-1437.465 $\chi^2$/NDF: 17.2/18

Left In: 150.419+/-2874.138 $\chi^2$/NDF:0.8/2

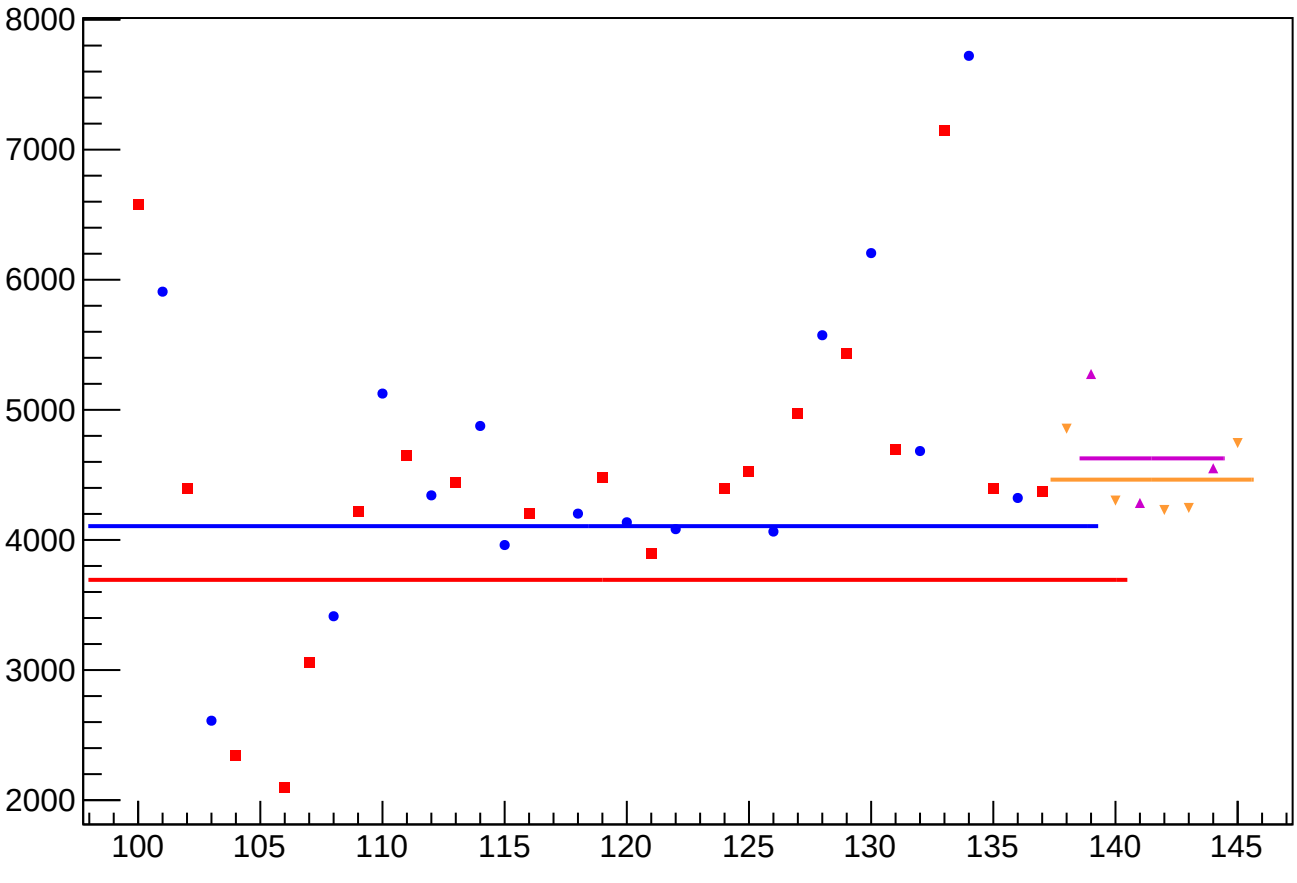
Left: 3238.187+/-1813.585 $\chi^2$/NDF: 5.9/7

Right: -848.531+/-1064.920 $\chi^2$/NDF: 31.6/34

In: -954.335+/-1388.230 $\chi^2$/NDF:15.3/18

Out: 1096.797+/-1224.498 $\chi^2$/NDF:24.8/23

All: 199.267+/-918.310 $\chi^2$/NDF: 41.3/42




Right In: 4106.141+/-1.121 $\chi^2$/NDF: 956130.4/15

Left Out: 4463.582+/-1.653 $\chi^2$/NDF:24898.6/4

Right Out: 3693.266+/-1.016 $\chi^2$/NDF: 1356643.3/18

Left In: 4626.989+/-2.032 $\chi^2$/NDF:37212.6/2

Left: 4528.645+/-1.282 $\chi^2$/NDF: 66001.9/7

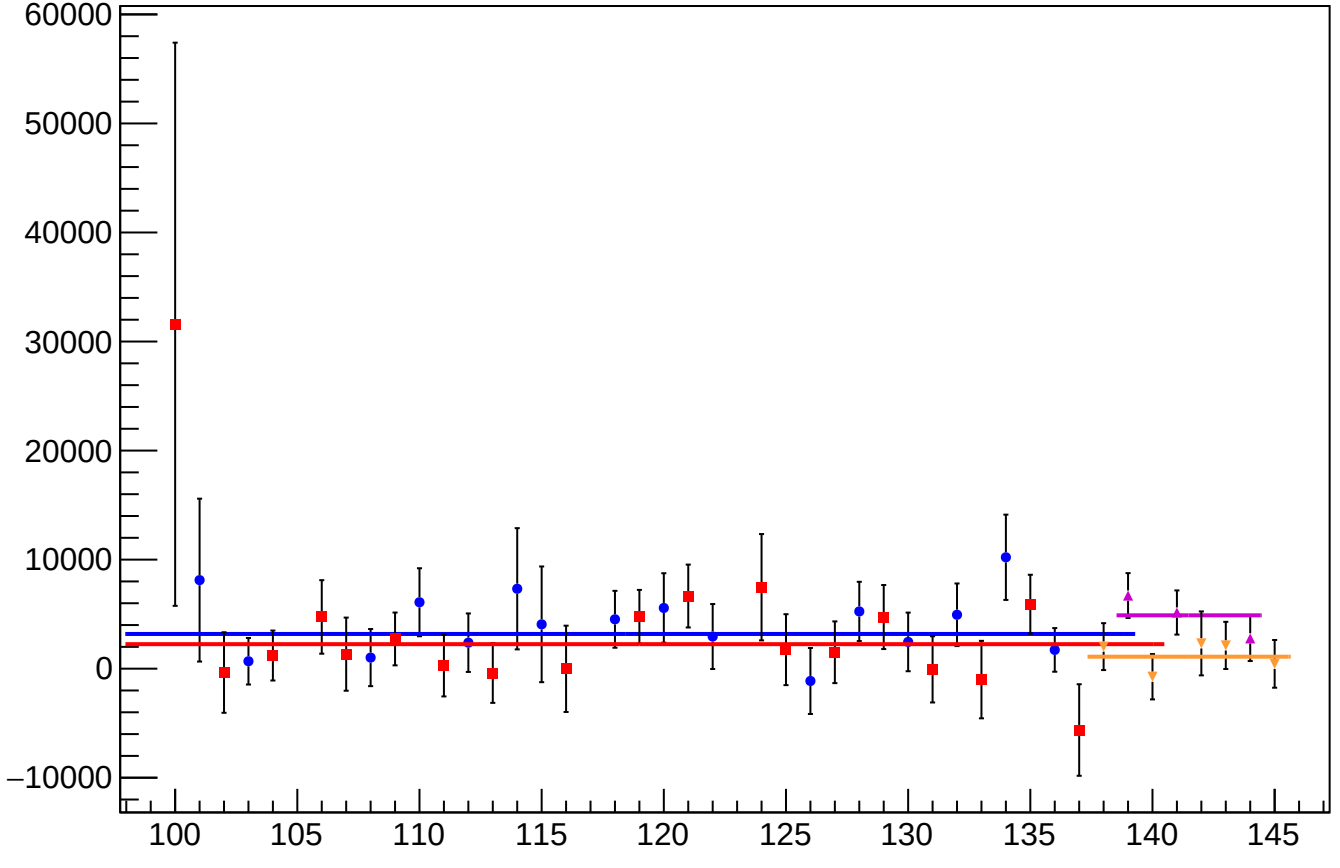
Right: 3879.542+/-0.753 $\chi^2$/NDF: 2387214.5/34

In: 4227.653+/-0.982 $\chi^2$/NDF:1043700.4/18

Out: 3904.610+/-0.866 $\chi^2$/NDF:1539118.8/23

All: 4045.966+/-0.649 $\chi^2$/NDF: 2643729.6/42

# cor_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3182.973+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 1098.556+/-1006.885 $\chi^2$/NDF:1.5/4

Right Out: 2247.193+/-710.916 $\chi^2$/NDF: 16.5/18

Left In: 4893.139+/-1185.340 $\chi^2$/NDF:1.8/2

Left: 2688.989+/-767.394 $\chi^2$/NDF: 9.2/7

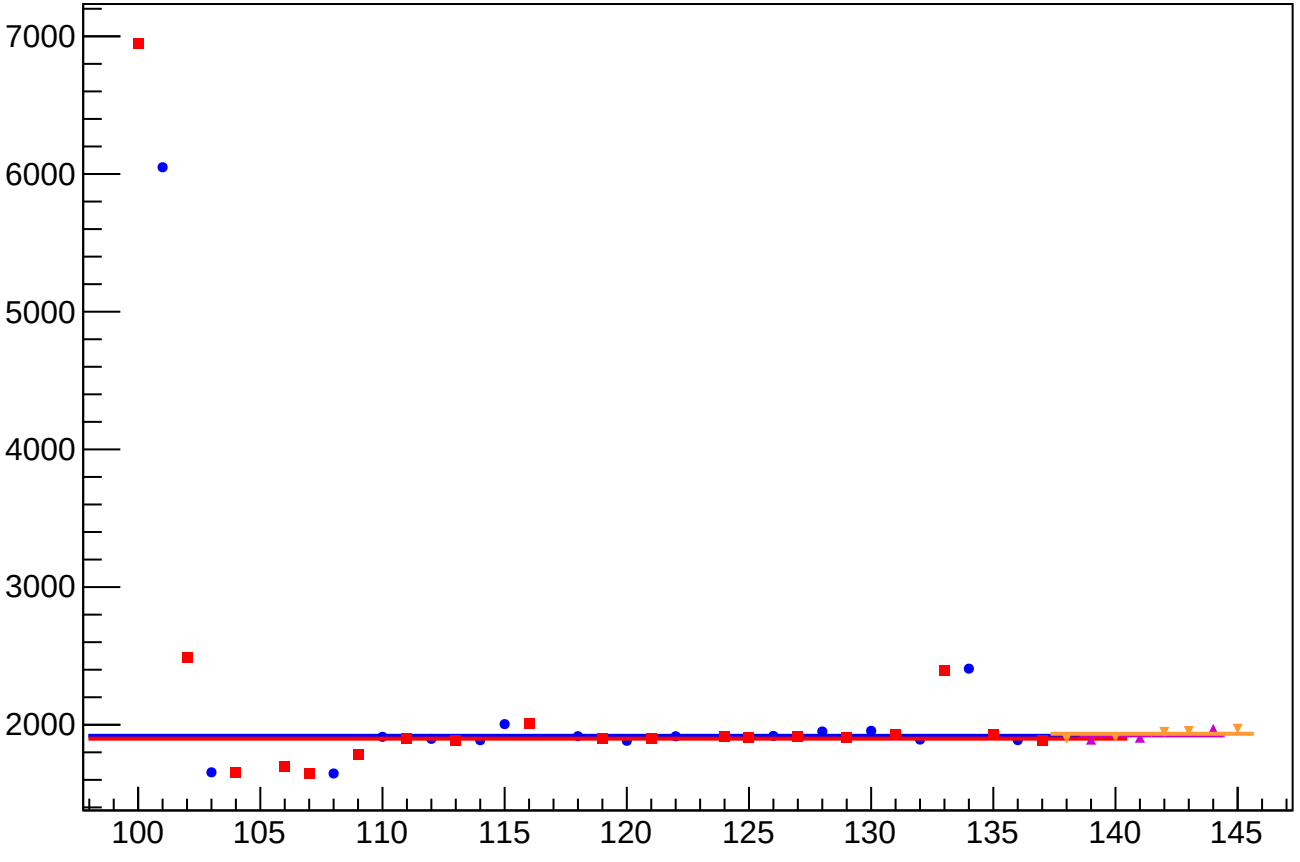
Right: 2701.966+/-509.691 $\chi^2$/NDF: 29.1/34

In: 3654.300+/-622.279 $\chi^2$/NDF:15.0/18

Out: 1865.074+/-580.748 $\chi^2$/NDF:18.8/23

All: 2697.994+/-424.574 $\chi^2$/NDF: 38.3/42

# cor_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697330.6/15

Left Out: 1934.803+/-0.712 $\chi^2$/NDF:1577.5/4

Right Out: 1899.364+/-0.502 $\chi^2$/NDF: 215654.1/18

Left In: 1922.692+/-0.838 $\chi^2$/NDF:1632.1/2

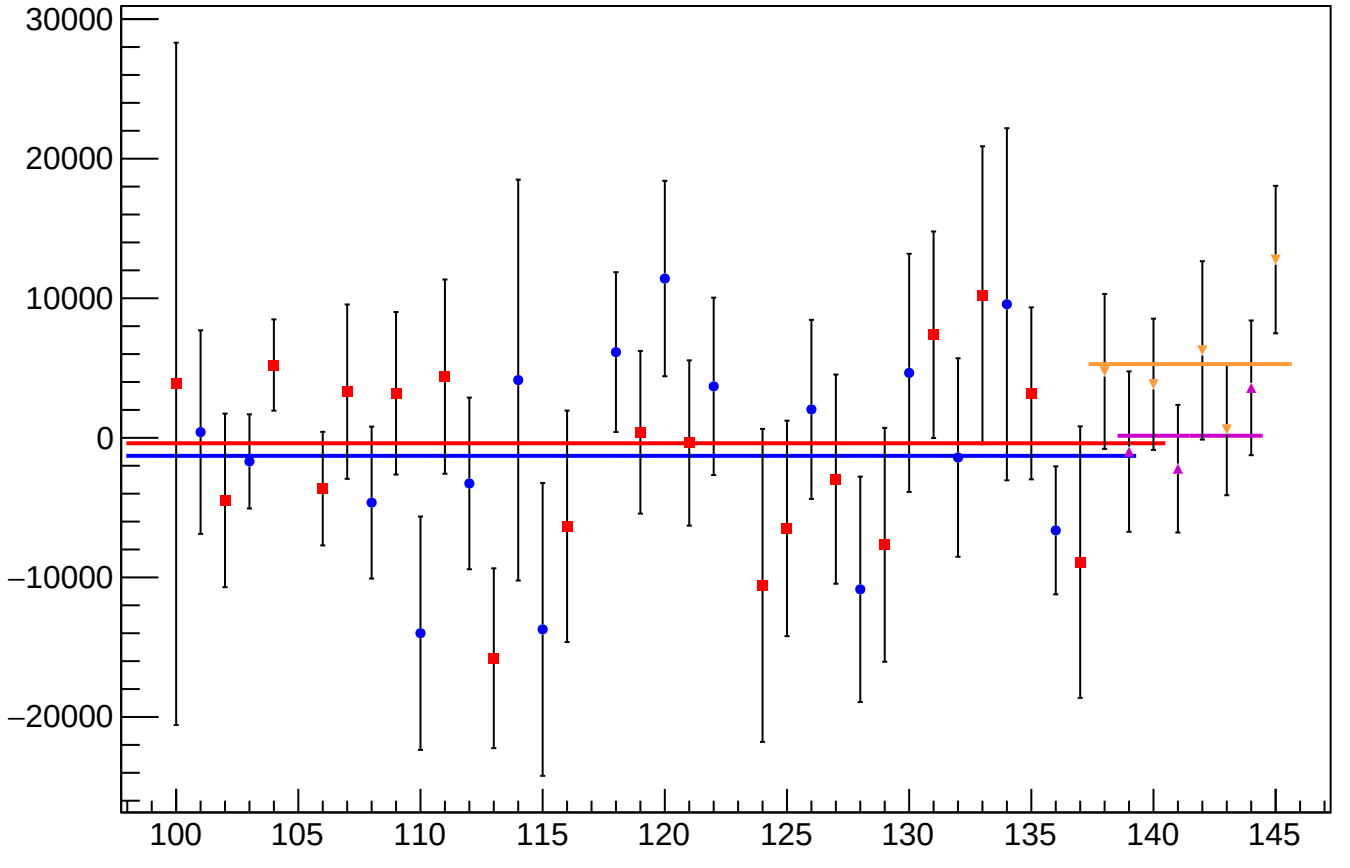
Left: 1929.727+/-0.543 $\chi^2$/NDF: 3330.8/7

Right: 1909.293+/-0.360 $\chi^2$/NDF: 913791.4/34

In: 1920.617+/-0.440 $\chi^2$/NDF:698971.2/18

Out: 1911.128+/-0.410 $\chi^2$/NDF:218886.7/23

All: 1915.541+/-0.300 $\chi^2$/NDF: 918106.7/42




Right In: -1290.862+/-1585.435 $\chi^2$/NDF: 14.3/15

Left Out: 5281.070+/-2337.740 $\chi^2$/NDF:3.1/4

Right Out: -387.626+/-1451.530 $\chi^2$/NDF: 17.0/18

Left In: 150.424+/-2874.139 $\chi^2$/NDF:0.8/2

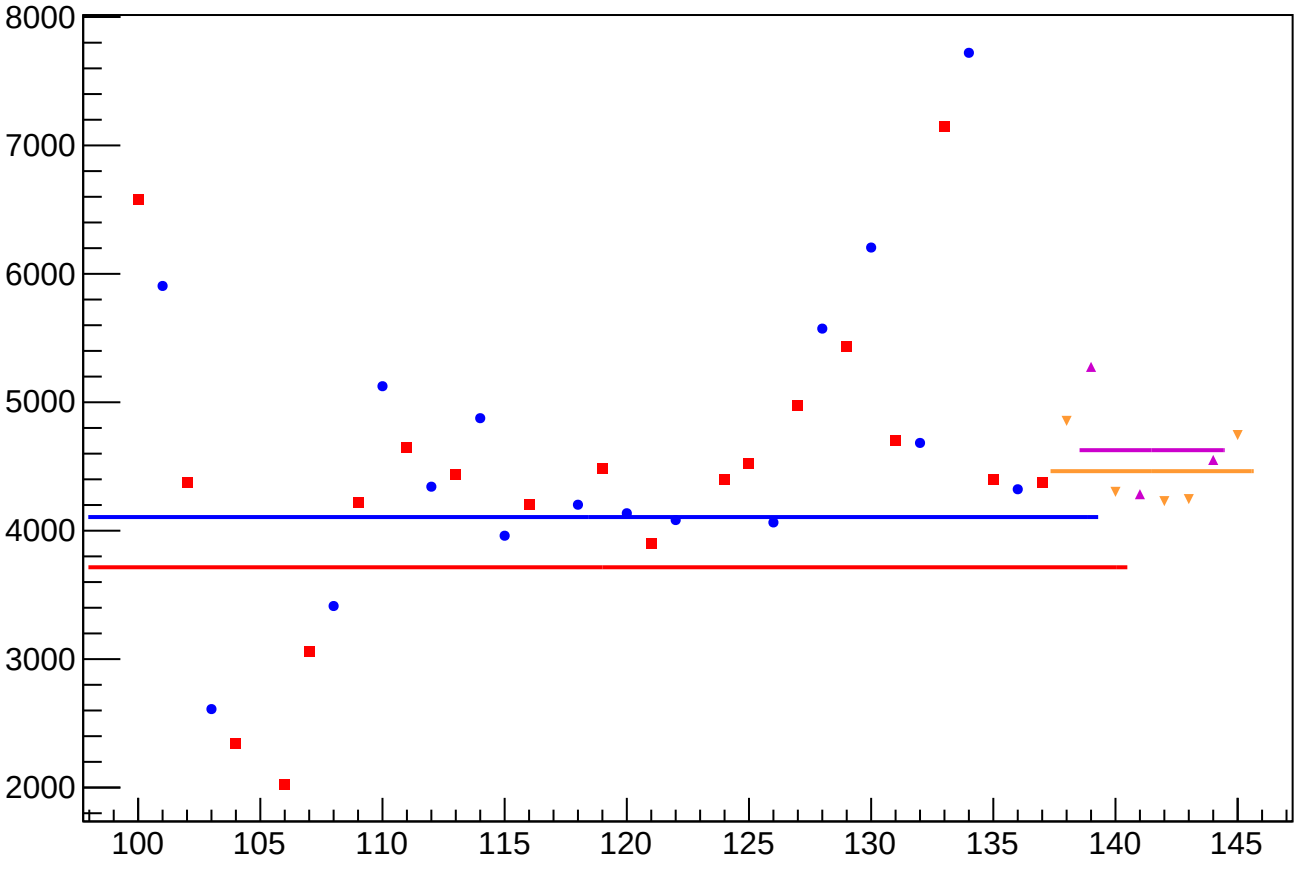
Left: 3238.251+/-1813.580 $\chi^2$/NDF: 5.9/7

Right: -799.497+/-1070.602 $\chi^2$/NDF: 31.4/34

In: -954.615+/-1388.232 $\chi^2$/NDF:15.3/18

Out: 1189.718+/-1233.156 $\chi^2$/NDF:24.4/23

All: 243.964+/-921.945 $\chi^2$/NDF: 41.0/42




Right In: 4106.234+/-1.121 $\chi^2$/NDF: 955631.2/15

Left Out: 4463.560+/-1.653 $\chi^2$/NDF:24899.8/4

Right Out: 3715.202+/-1.026 $\chi^2$/NDF: 1335100.7/18

Left In: 4626.989+/-2.032 $\chi^2$/NDF:37214.1/2

Left: 4528.631+/-1.282 $\chi^2$/NDF: 66005.7/7

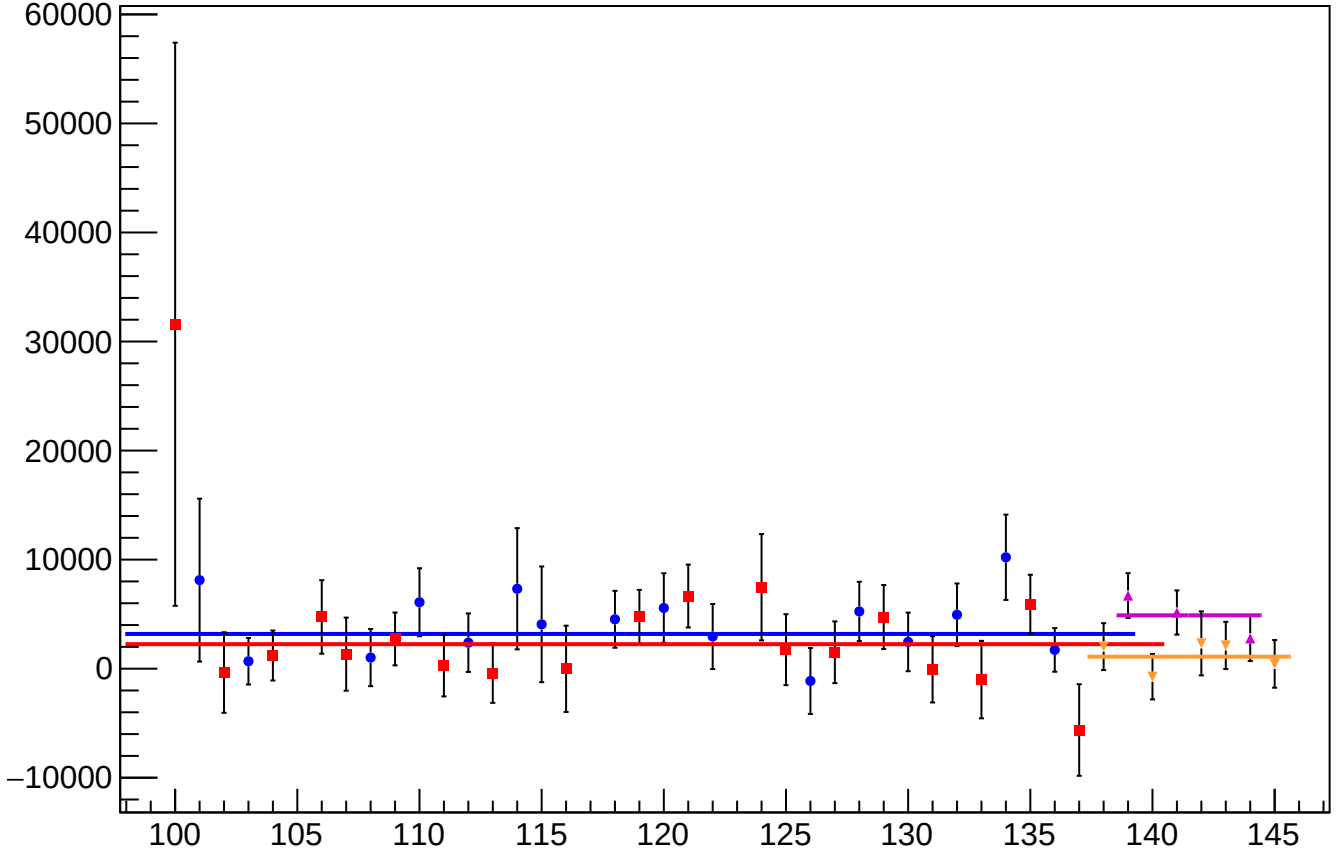
Right: 3893.510+/-0.757 $\chi^2$/NDF: 2356917.1/34

In: 4227.725+/-0.982 $\chi^2$/NDF:1043184.8/18

Out: 3923.437+/-0.872 $\chi^2$/NDF:1507924.8/23

All: 4057.642+/-0.652 $\chi^2$/NDF: 2604818.8/42

# eigen_cor_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3182.973+/-731.133 $\chi^2$/NDF: 11.7/15

Left Out: 1098.556+/-1006.885 $\chi^2$/NDF:1.5/4

Right Out: 2247.193+/-710.916 $\chi^2$/NDF: 16.5/18

Left In: 4893.139+/-1185.340 $\chi^2$/NDF:1.8/2

Left: 2688.989+/-767.394 $\chi^2$/NDF: 9.2/7

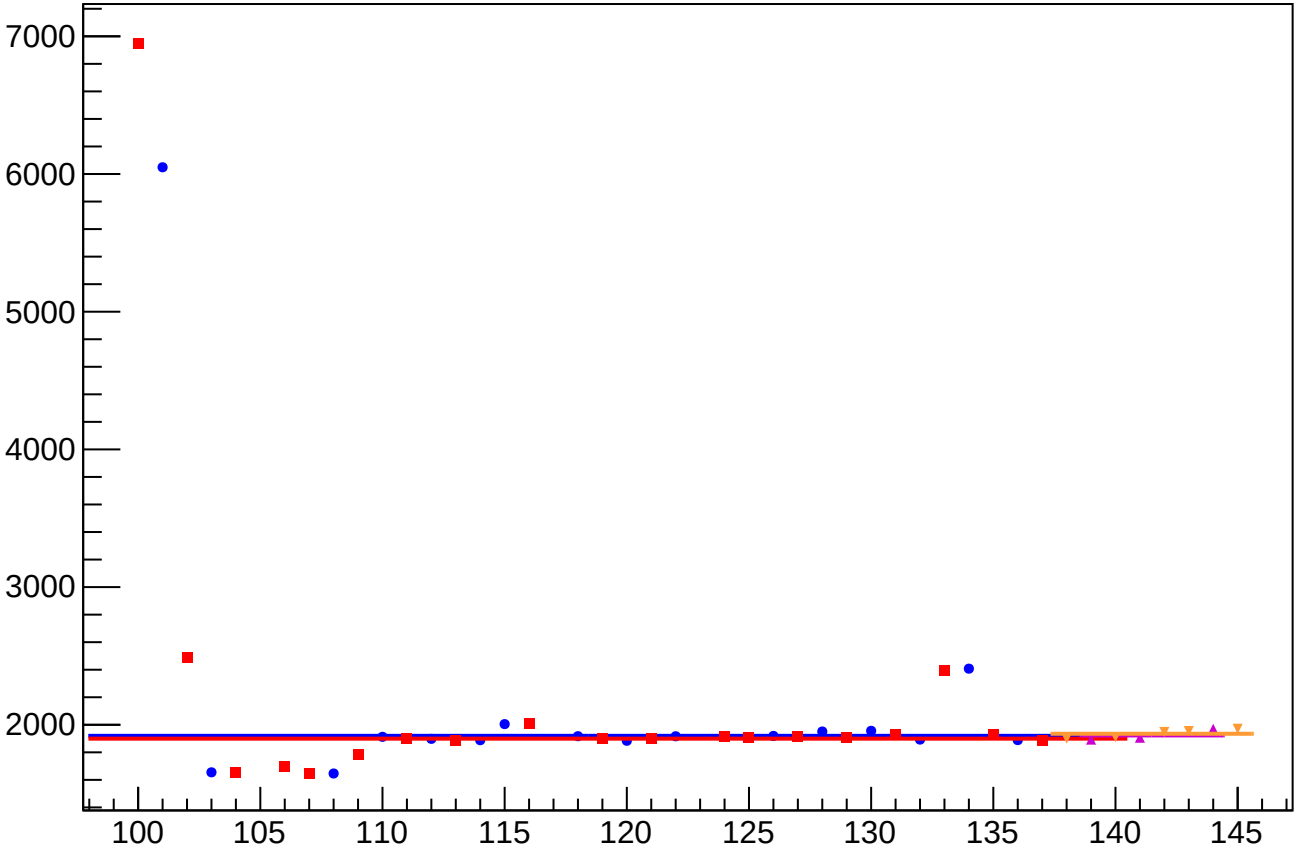
Right: 2701.966+/-509.691 $\chi^2$/NDF: 29.1/34

In: 3654.300+/-622.279 $\chi^2$/NDF:15.0/18

Out: 1865.074+/-580.748 $\chi^2$/NDF:18.8/23

All: 2697.994+/-424.574 $\chi^2$/NDF: 38.3/42

# eigen_cor_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1919.827+/-0.517 $\chi^2$/NDF: 697330.6/15

Left Out: 1934.803+/-0.712 $\chi^2$/NDF:1577.5/4

Right Out: 1899.364+/-0.502 $\chi^2$/NDF: 215654.1/18

Left In: 1922.692+/-0.838 $\chi^2$/NDF:1632.1/2

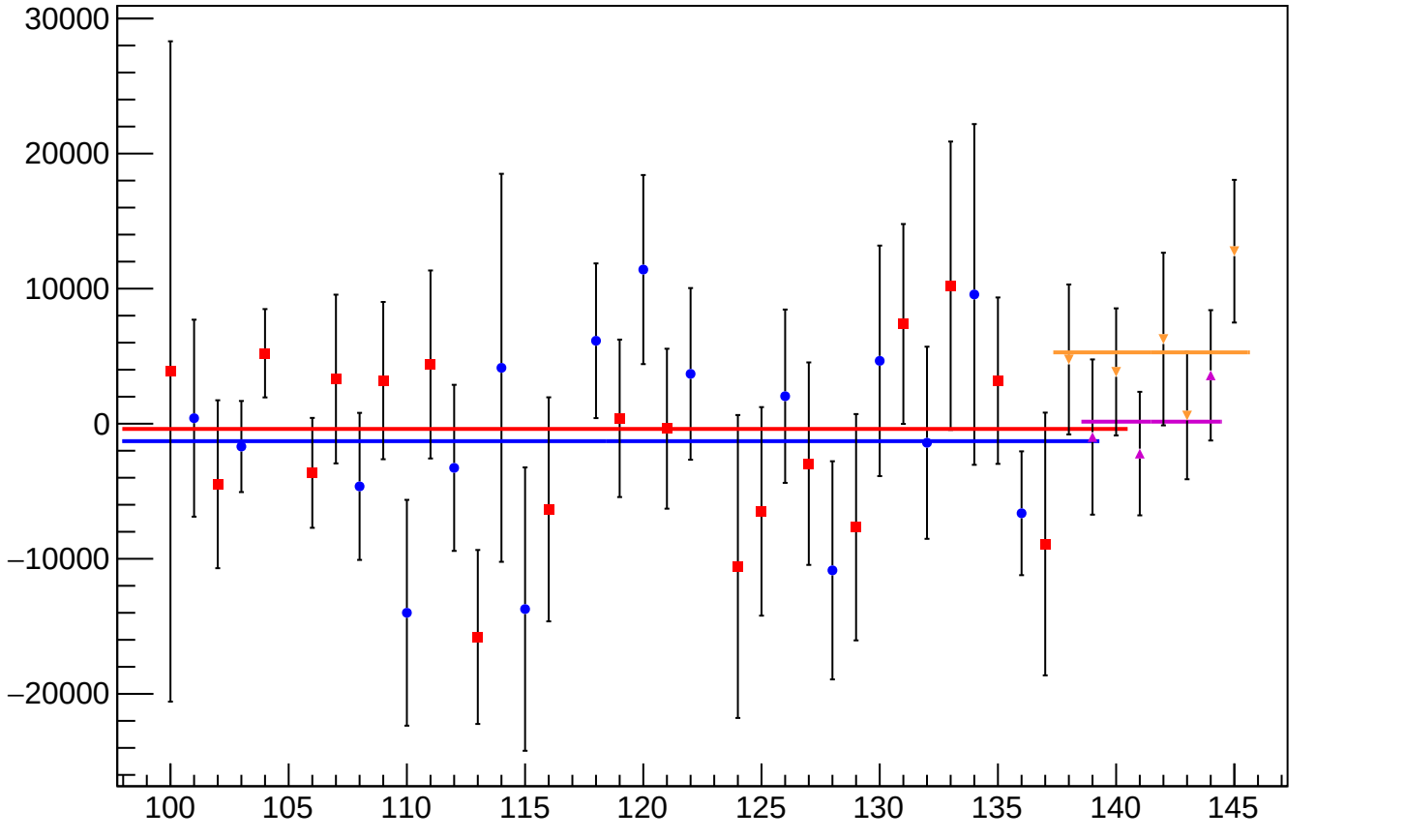
Left: 1929.727+/-0.543 $\chi^2$/NDF: 3330.8/7

Right: 1909.293+/-0.360 $\chi^2$/NDF: 913791.4/34

In: 1920.617+/-0.440 $\chi^2$/NDF:698971.2/18

Out: 1911.128+/-0.410 $\chi^2$/NDF:218886.7/23

All: 1915.541+/-0.300 $\chi^2$/NDF: 918106.7/42




Right In: -1290.862+/-1585.435 $\chi^2$/NDF: 14.3/15

Left Out: 5281.070+/-2337.740 $\chi^2$/NDF:3.1/4

Right Out: -387.626+/-1451.530 $\chi^2$/NDF: 17.0/18

Left In: 150.424+/-2874.139 $\chi^2$/NDF:0.8/2

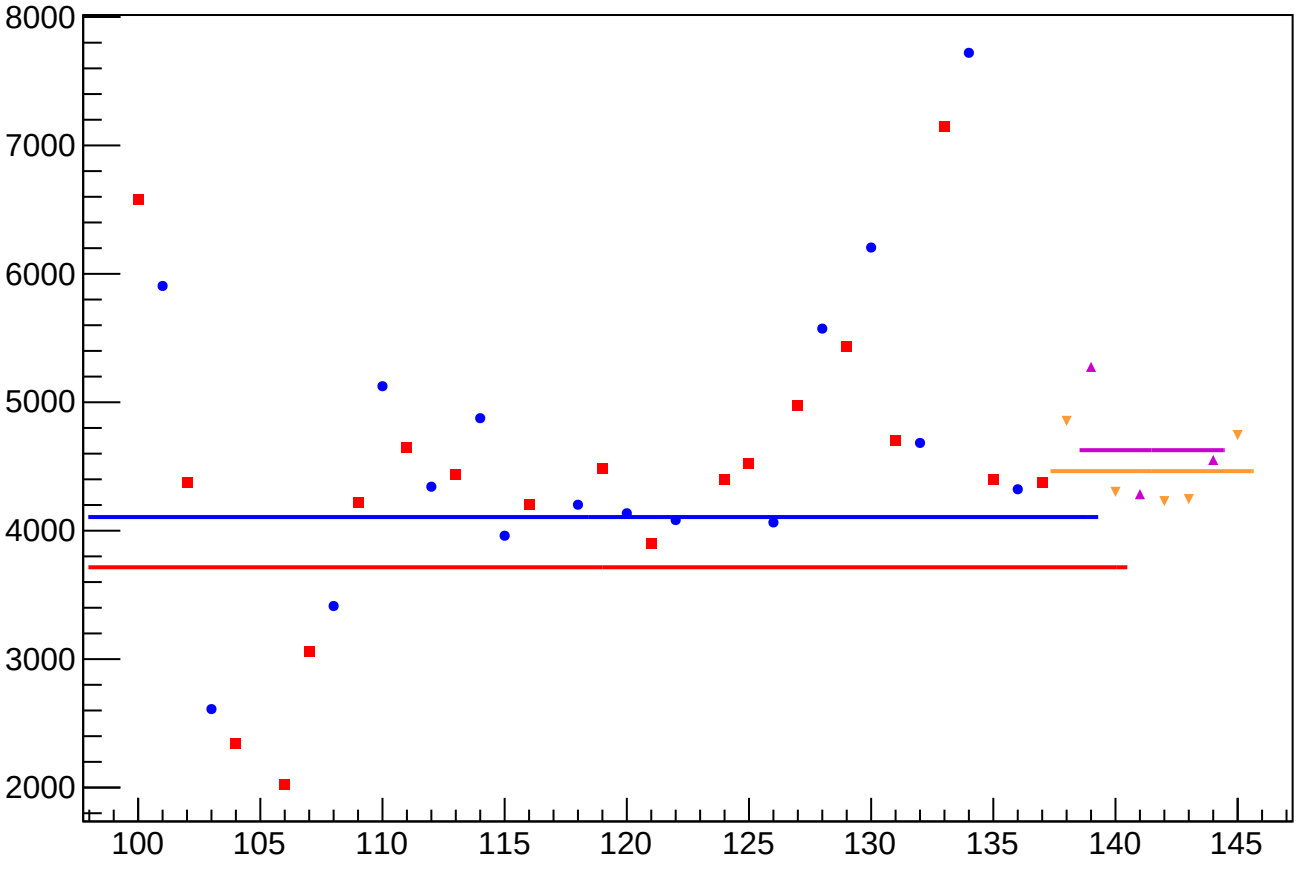
Left: 3238.251+/-1813.580 $\chi^2$/NDF: 5.9/7

Right: -799.497+/-1070.602 $\chi^2$/NDF: 31.4/34

In: -954.615+/-1388.232 $\chi^2$/NDF:15.3/18

Out: 1189.718+/-1233.156 $\chi^2$/NDF:24.4/23

All: 243.964+/-921.945 $\chi^2$/NDF: 41.0/42




Right In: 4106.234+/-1.121 $\chi^2$/NDF: 955631.2/15

Left Out: 4463.560+/-1.653 $\chi^2$/NDF:24899.8/4

Right Out: 3715.202+/-1.026 $\chi^2$/NDF: 1335100.7/18

Left In: 4626.989+/-2.032 $\chi^2$/NDF:37214.1/2

Left: 4528.631+/-1.282 $\chi^2$/NDF: 66005.7/7

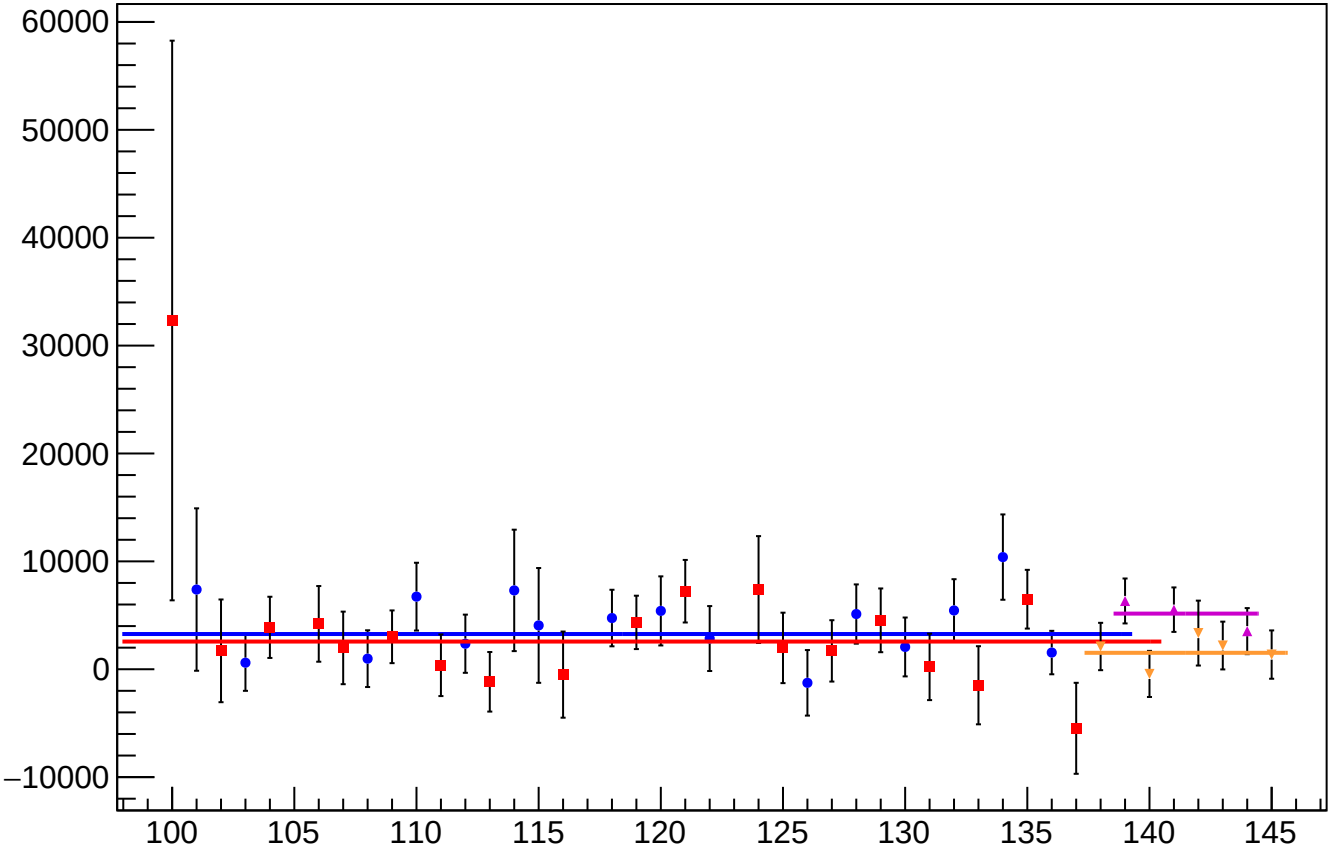
Right: 3893.510+/-0.757 $\chi^2$/NDF: 2356917.1/34

In: 4227.725+/-0.982 $\chi^2$/NDF:1043184.8/18

Out: 3923.437+/-0.872 $\chi^2$/NDF:1507924.8/23

All: 4057.642+/-0.652 $\chi^2$/NDF: 2604818.8/42

# dit_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3264.639+/-750.865 $\chi^2$/NDF: 12.2/15

Left Out: 1522.849+/-1031.206 $\chi^2$/NDF:1.4/4

Right Out: 2566.683+/-734.876 $\chi^2$/NDF: 17.0/18

Left In: 5157.141+/-1207.956 $\chi^2$/NDF:0.9/2

Left: 3054.897+/-784.291 $\chi^2$/NDF: 7.5/7

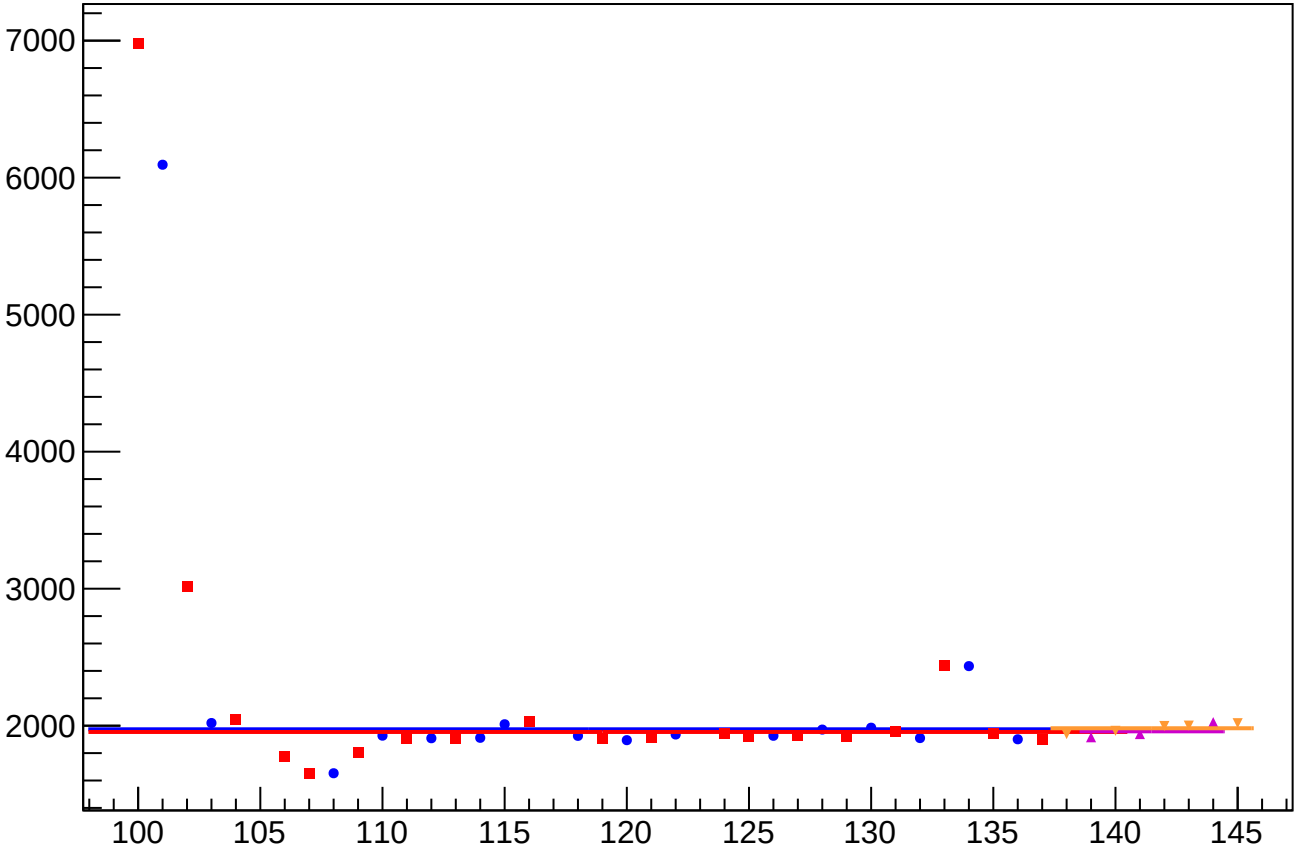
Right: 2908.151+/-525.197 $\chi^2$/NDF: 29.6/34

In: 3792.080+/-637.705 $\chi^2$/NDF:14.9/18

Out: 2215.115+/-598.459 $\chi^2$/NDF:19.1/23

All: 2953.583+/-436.390 $\chi^2$/NDF: 37.2/42

# dit_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1973.748+/-0.531 $\chi^2$/NDF: 665124.2/15

Left Out: 1981.409+/-0.729 $\chi^2$/NDF:1667.8/4

Right Out: 1954.339+/-0.519 $\chi^2$/NDF: 246211.3/18

Left In: 1959.057+/-0.854 $\chi^2$/NDF:3019.2/2

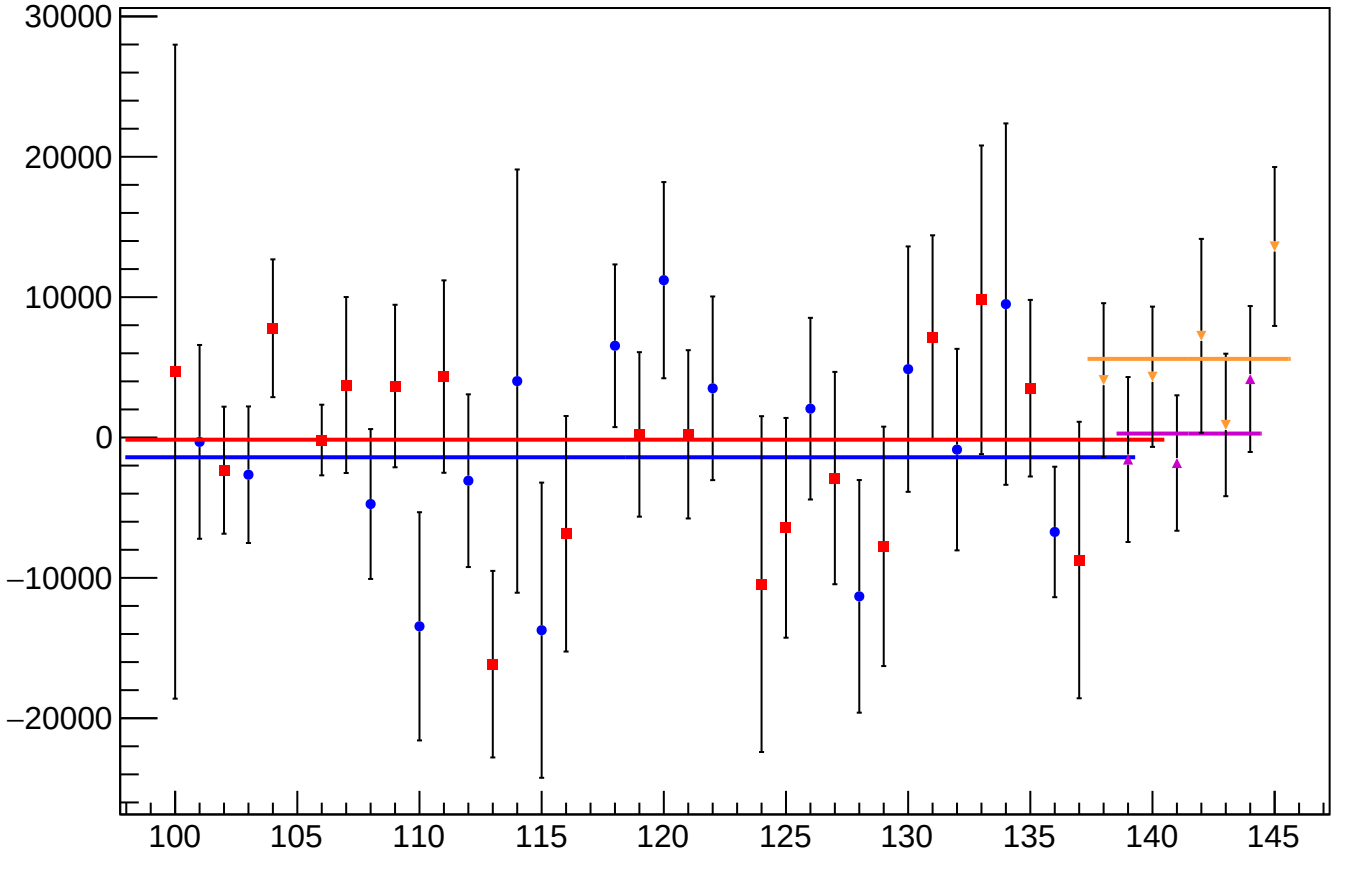
Left: 1971.986+/-0.555 $\chi^2$/NDF: 5083.2/7

Right: 1963.826+/-0.371 $\chi^2$/NDF: 912018.7/34

In: 1969.654+/-0.451 $\chi^2$/NDF:668356.9/18

Out: 1963.446+/-0.423 $\chi^2$/NDF:248793.7/23

All: 1966.351+/-0.308 $\chi^2$/NDF: 917251.4/42




Right In: -1407.382+/-1689.989 $\chi^2$/NDF: 14.2/15

Left Out: 5603.157+/-2467.187 $\chi^2$/NDF:3.1/4

Right Out: -155.271+/-1363.642 $\chi^2$/NDF: 15.8/18

Left In: 281.478+/-3030.242 $\chi^2$/NDF:0.8/2

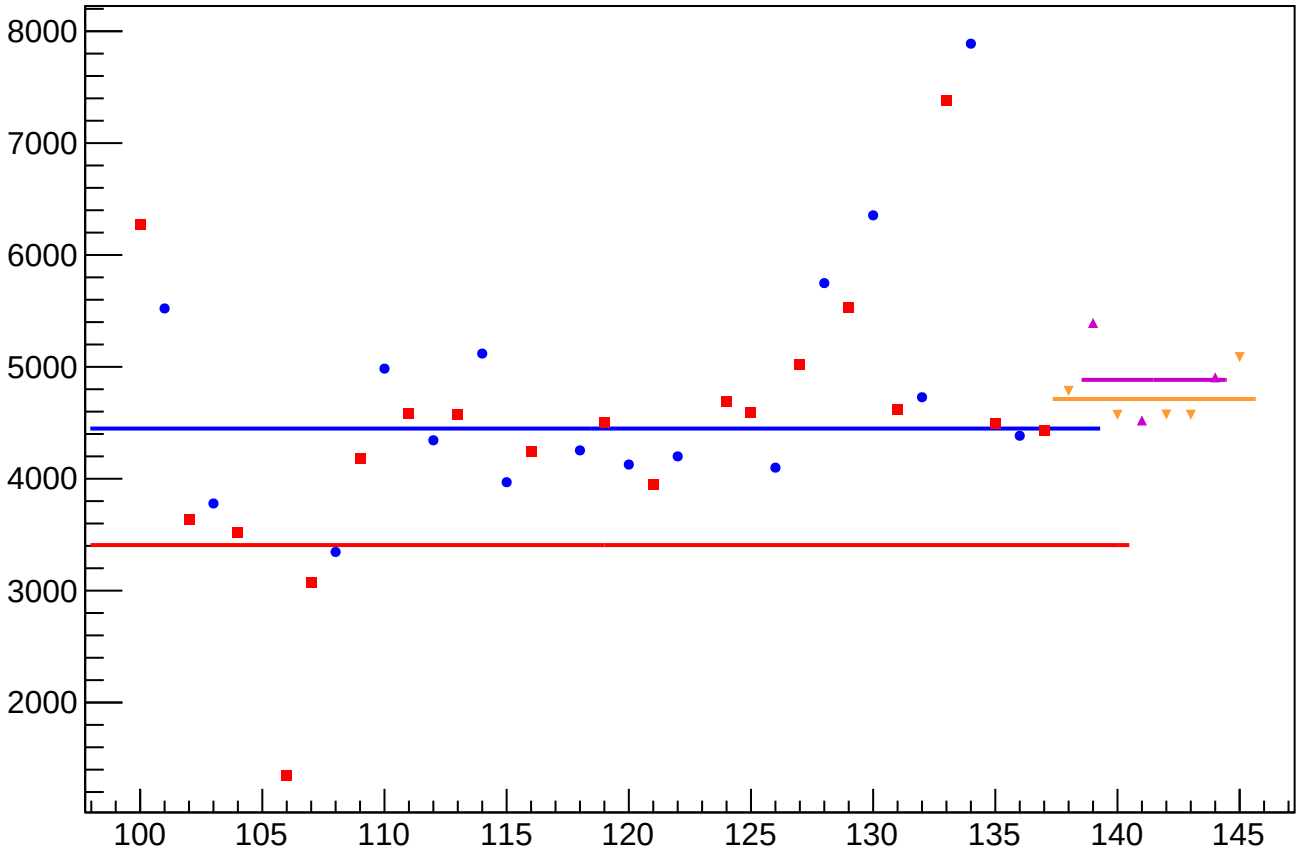
Left: 3481.714+/-1913.236 $\chi^2$/NDF: 5.8/7

Right: -649.023+/-1061.247 $\chi^2$/NDF: 30.4/34

In: -1006.707+/-1475.965 $\chi^2$/NDF:15.3/18

Out: 1192.225+/-1193.476 $\chi^2$/NDF:23.0/23

All: 322.880+/-928.039 $\chi^2$/NDF: 39.7/42




Right In: 4448.711+/-1.195 $\chi^2$/NDF: 494613.5/15

Left Out: 4712.894+/-1.745 $\chi^2$/NDF:13035.9/4

Right Out: 3407.128+/-0.964 $\chi^2$/NDF: 2326060.4/18

Left In: 4883.934+/-2.143 $\chi^2$/NDF:26341.1/2

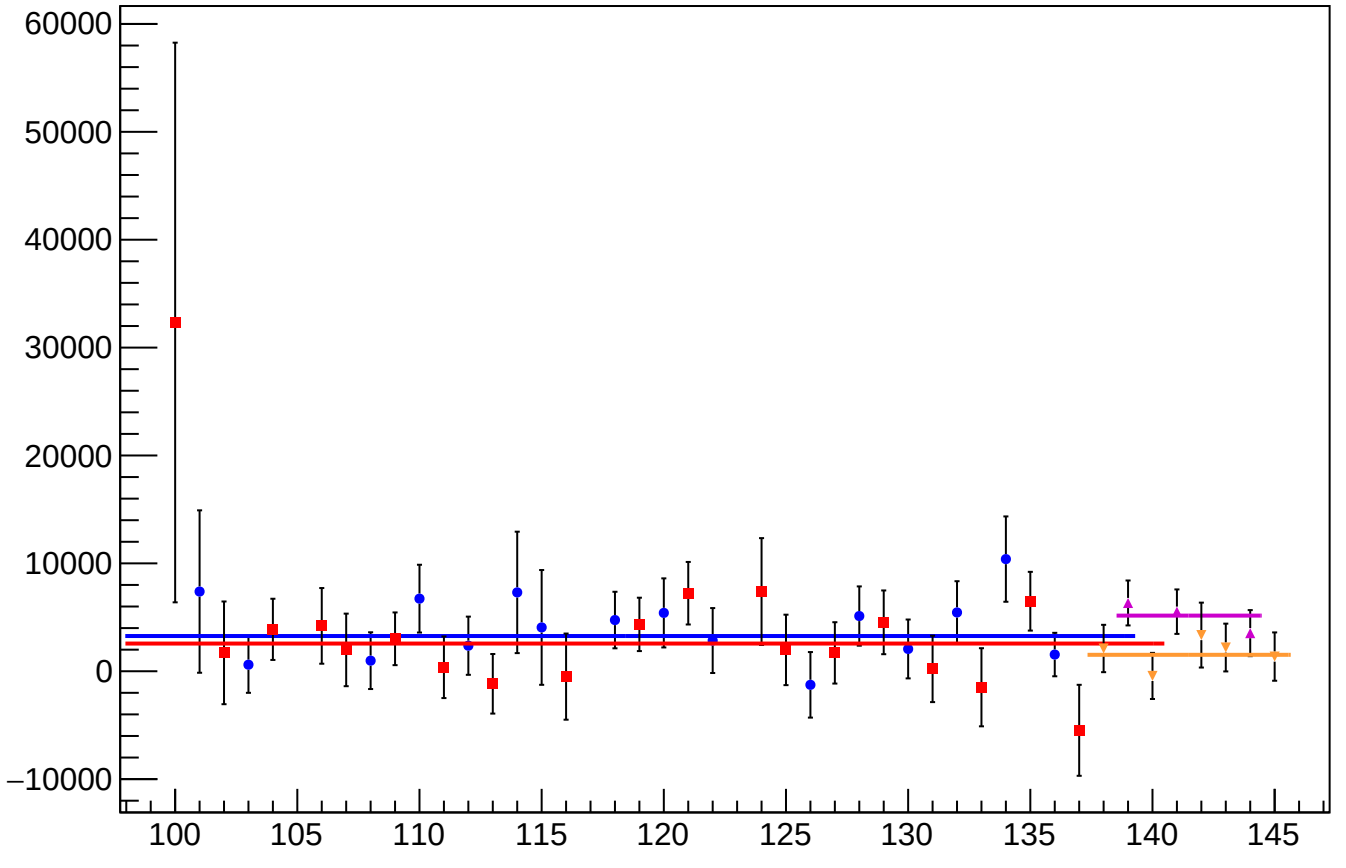
Left: 4781.078+/-1.353 $\chi^2$/NDF: 43208.8/7

Right: 3817.861+/-0.750 $\chi^2$/NDF: 3280806.0/34

In: 4551.966+/-1.044 $\chi^2$/NDF:552423.7/18

Out: 3712.682+/-0.844 $\chi^2$/NDF:2768221.1/23

All: 4044.492+/-0.656 $\chi^2$/NDF: 3711665.3/42




Right In: 3264.644+/-750.865 $\chi^2$/NDF: 12.2/15

Left Out: 1522.855+/-1031.207 $\chi^2$/NDF:1.4/4

Right Out: 2566.689+/-734.875 $\chi^2$/NDF: 17.0/18

Left In: 5157.130+/-1207.956 $\chi^2$/NDF:0.9/2

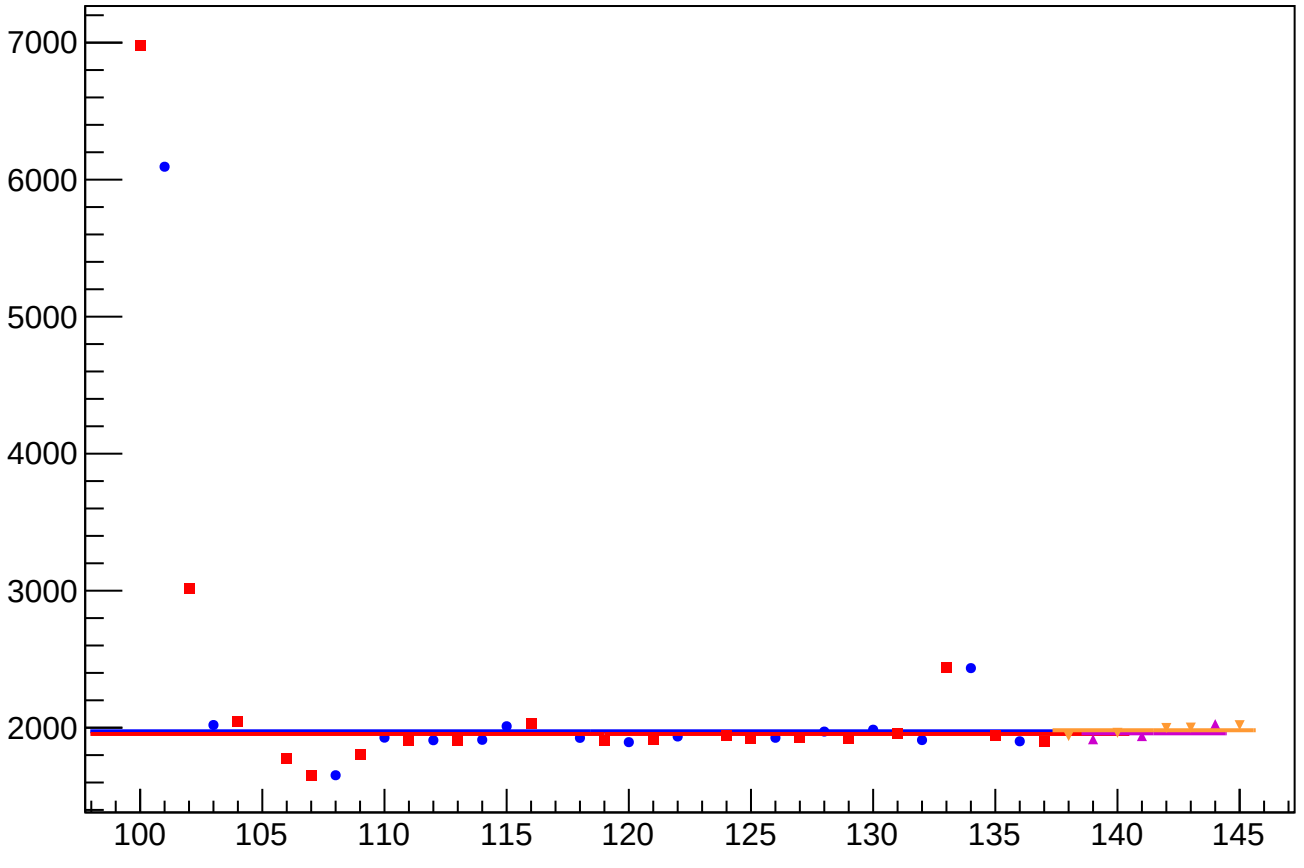
Left: 3054.896+/-784.291 $\chi^2$/NDF: 7.5/7

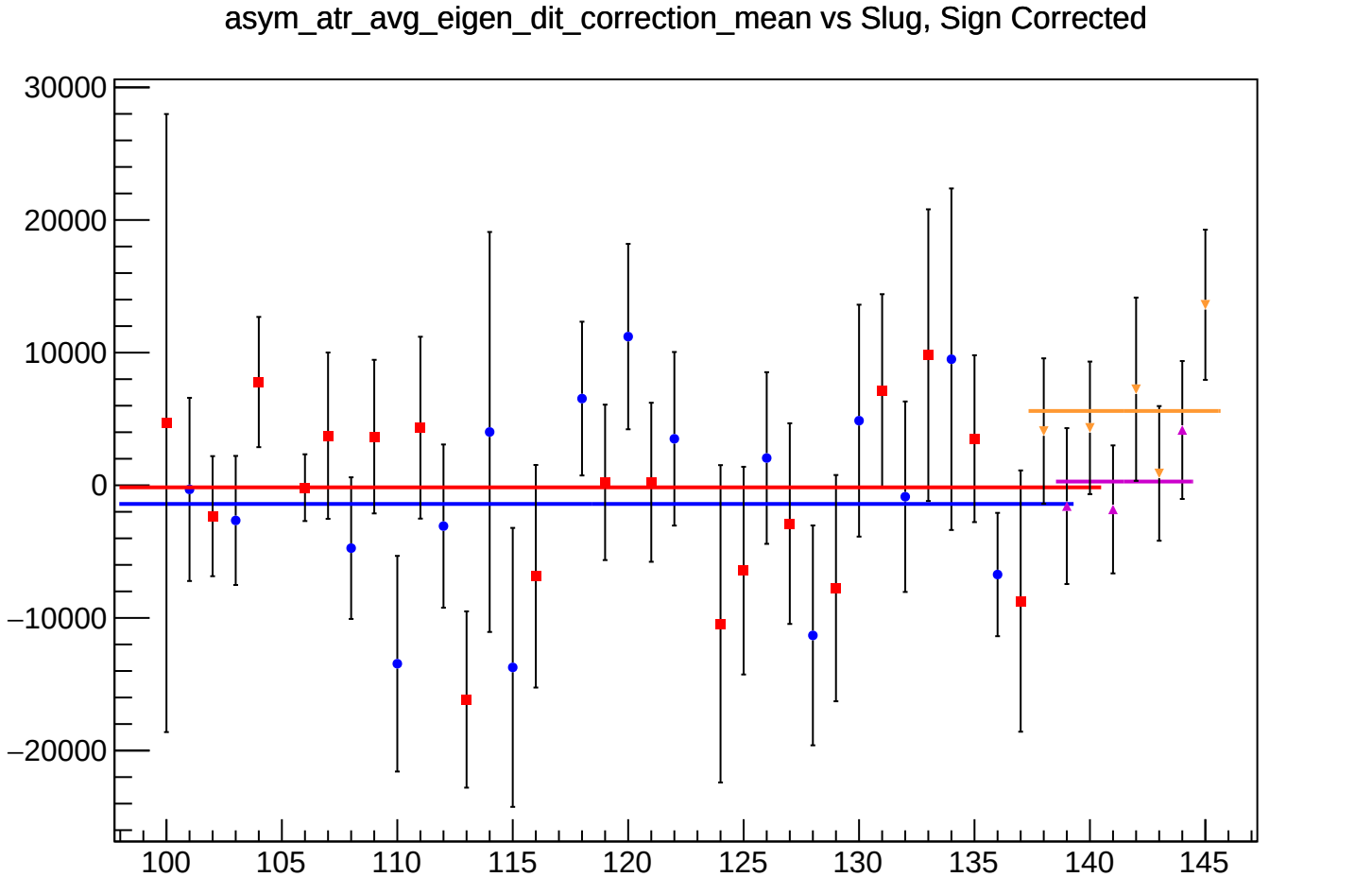
Right: 2908.156+/-525.197 $\chi^2$/NDF: 29.6/34

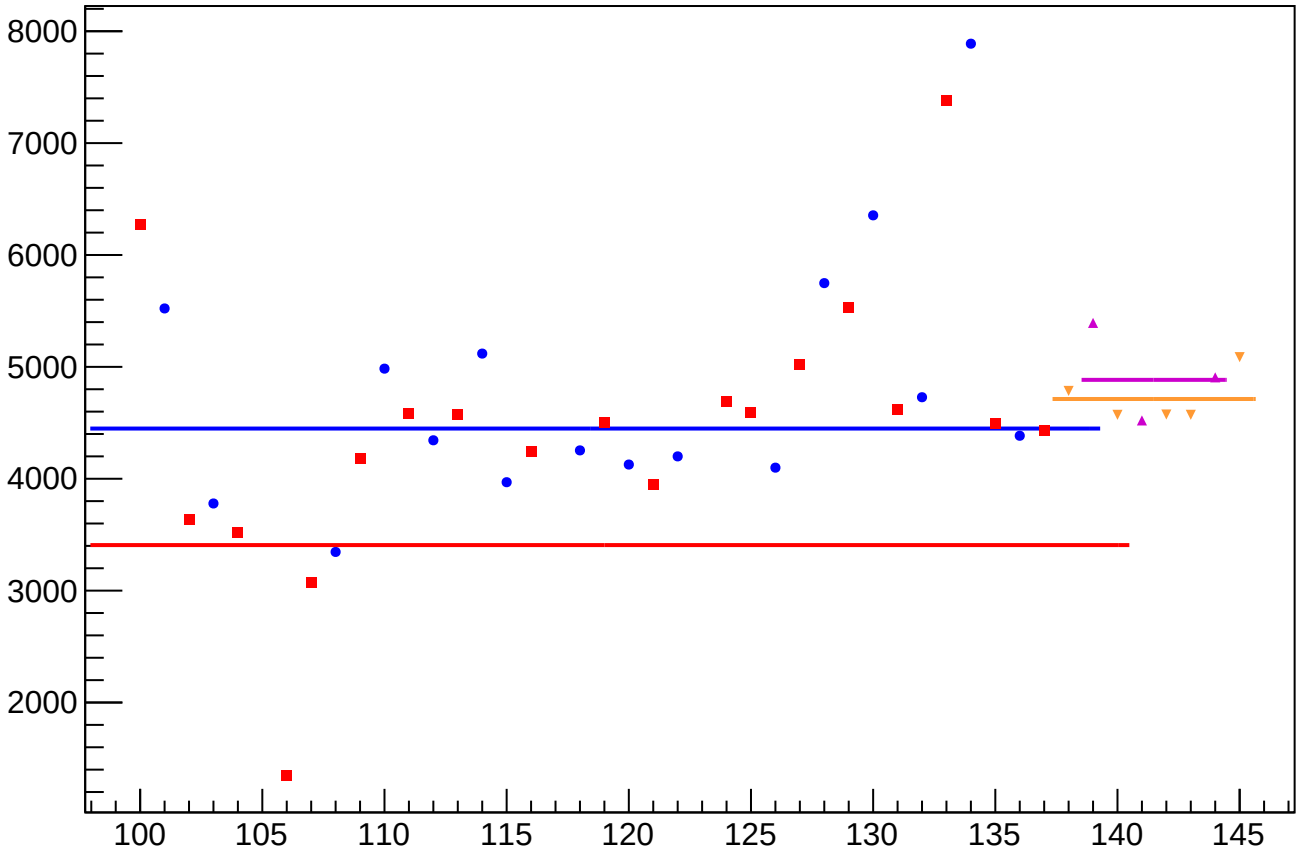
In: 3792.080+/-637.705 $\chi^2$/NDF:14.9/18

Out: 2215.121+/-598.459 $\chi^2$/NDF:19.1/23

All: 2953.586+/-436.390 $\chi^2$/NDF: 37.2/42


eigen_dit_asym_atr_avg_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
100
105
110
115
120
125
130
135
140
145
Right In: 1973.748+/-0.531 χ²/NDF: 665124.2/15
Left Out: 1981.410+/-0.729 χ²/NDF:1667.9/4
Right Out: 1954.339+/-0.519 χ²/NDF: 246210.8/18
Left In: 1959.057+/-0.854 χ²/NDF:3019.3/2
Left: 1971.987+/-0.555 χ²/NDF: 5083.3/7
Right: 1963.826+/-0.371 χ²/NDF: 912018.2/34
In: 1969.653+/-0.451 χ²/NDF:668356.9/18
Out: 1963.446+/-0.423 χ²/NDF:248793.3/23
All: 1966.351+/-0.308 χ²/NDF: 917251.0/42


asym_atr_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -1407.363+/-1689.986 χ²/NDF: 14.2/15
Left Out: 5603.163+/-2467.190 χ²/NDF:3.1/4
Right Out: -155.272+/-1363.639 χ²/NDF: 15.8/18
Left In: 281.466+/-3030.245 χ²/NDF:0.8/2
Left: 3481.711+/-1913.239 χ²/NDF: 5.8/7
Right: -649.016+/-1061.245 χ²/NDF: 30.4/34
In: -1006.697+/-1475.964 χ²/NDF:15.3/18
Out: 1192.218+/-1193.474 χ²/NDF:23.0/23
All: 322.880+/-928.038 χ²/NDF: 39.7/42




Right In: 4448.704+/-1.195 $\chi^2$/NDF: 494610.6/15

Left Out: 4712.901+/-1.745 $\chi^2$/NDF:13036.2/4

Right Out: 3407.120+/-0.964 $\chi^2$/NDF: 2326064.2/18

Left In: 4883.938+/-2.143 $\chi^2$/NDF:26341.6/2

Left: 4781.083+/-1.353 $\chi^2$/NDF: 43209.5/7

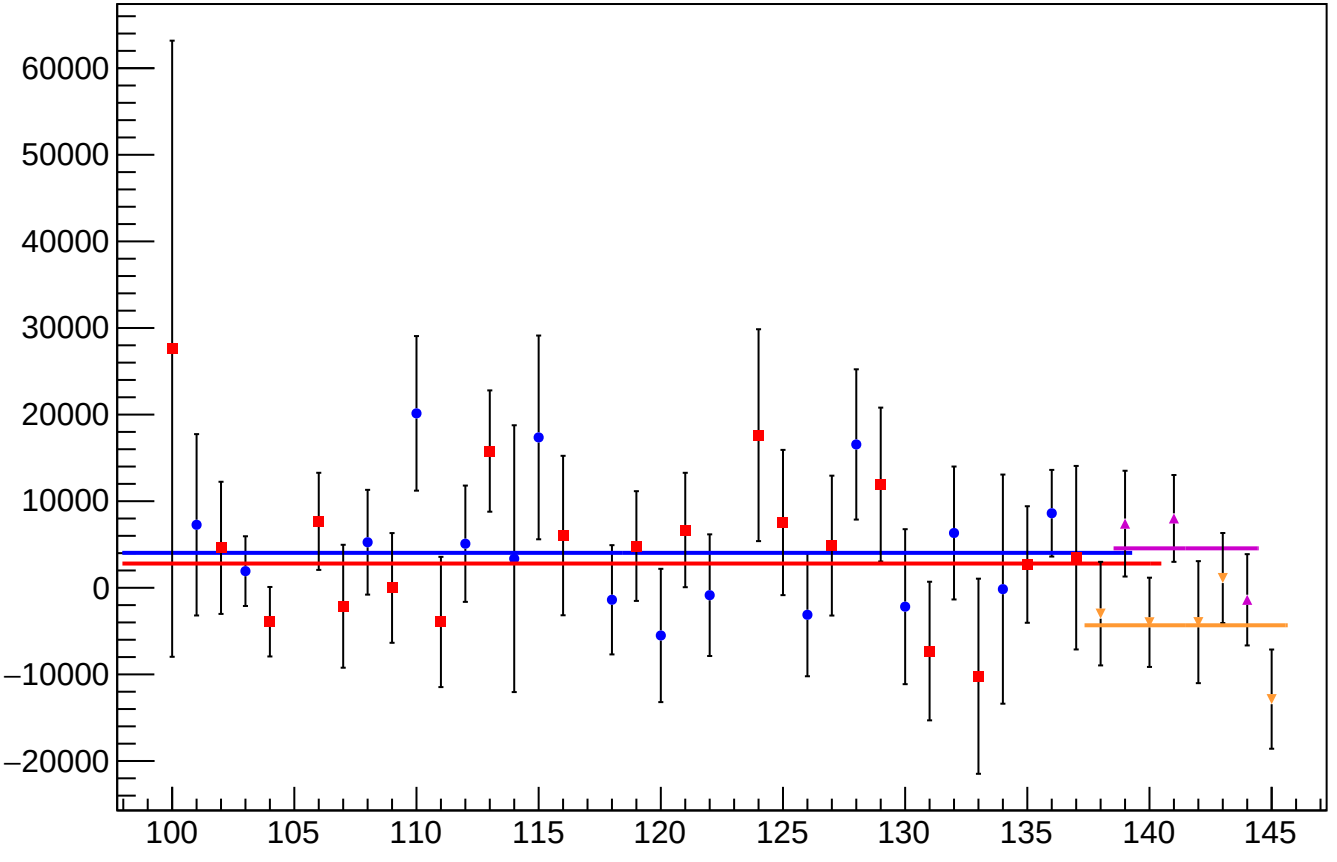
Right: 3817.853+/-0.750 $\chi^2$/NDF: 3280809.4/34

In: 4551.961+/-1.044 $\chi^2$/NDF:552422.9/18

Out: 3712.676+/-0.844 $\chi^2$/NDF:2768234.2/23

All: 4044.486+/-0.656 $\chi^2$/NDF: 3711680.1/42

# asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 4034.572+/-1782.030 $\chi^2$/NDF: 12.3/15

Left Out: -4328.690+/-2554.487 $\chi^2$/NDF:3.4/4

Right Out: 2800.547+/-1671.877 $\chi^2$/NDF: 15.4/18

Left In: 4555.513+/-3122.075 $\chi^2$/NDF:2.0/2

Left: -766.109+/-1977.045 $\chi^2$/NDF: 10.2/7

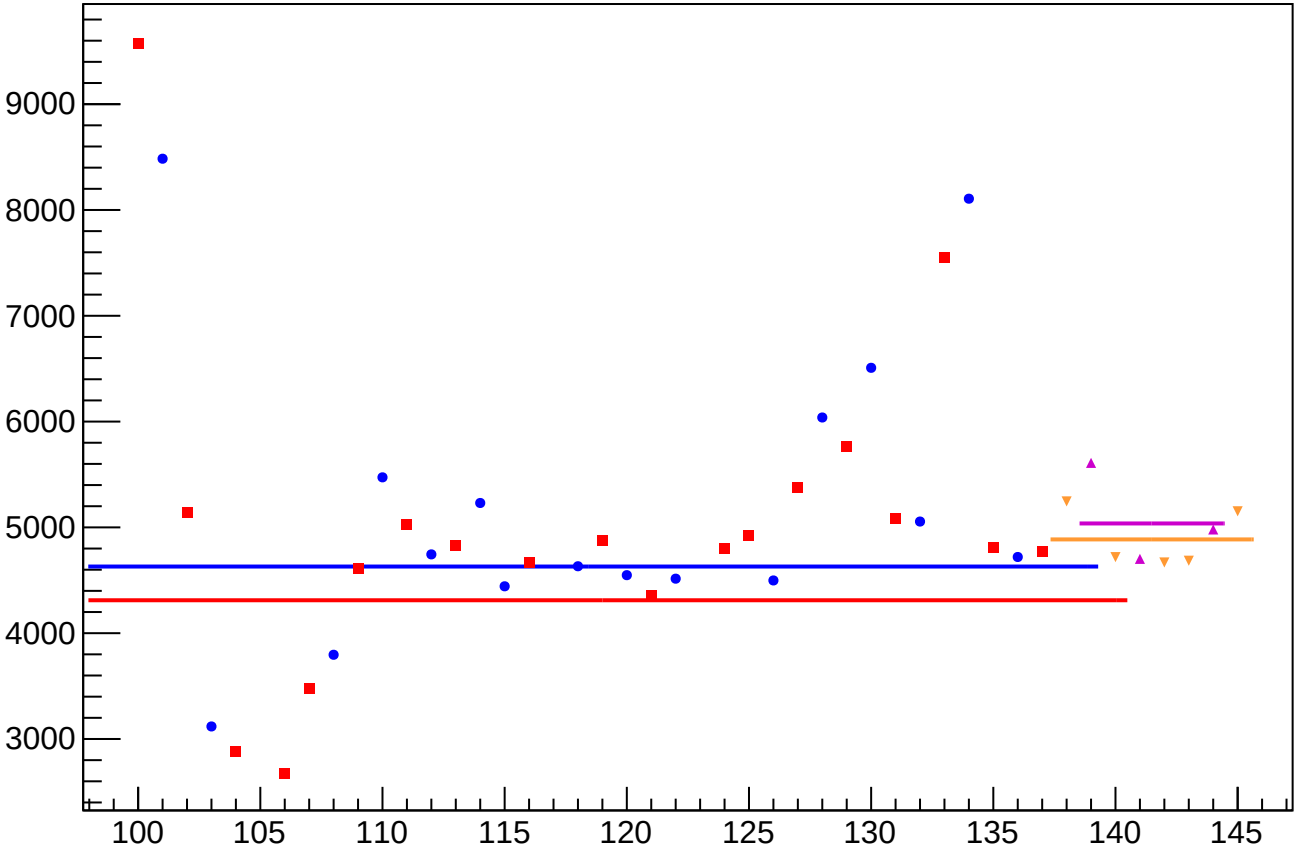
Right: 3378.243+/-1219.278 $\chi^2$/NDF: 28.0/34

In: 4162.585+/-1547.665 $\chi^2$/NDF:14.3/18

Out: 662.542+/-1398.900 $\chi^2$/NDF:24.3/23

All: 2236.304+/-1037.791 $\chi^2$/NDF: 41.4/42

# asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 4629.967+/-1.260 $\chi^2$/NDF: 900246.3/15

Left Out: 4886.278+/-1.806 $\chi^2$/NDF:18541.4/4

Right Out: 4311.218+/-1.172 $\chi^2$/NDF: 904737.2/18

Left In: 5037.136+/-2.208 $\chi^2$/NDF:26726.7/2

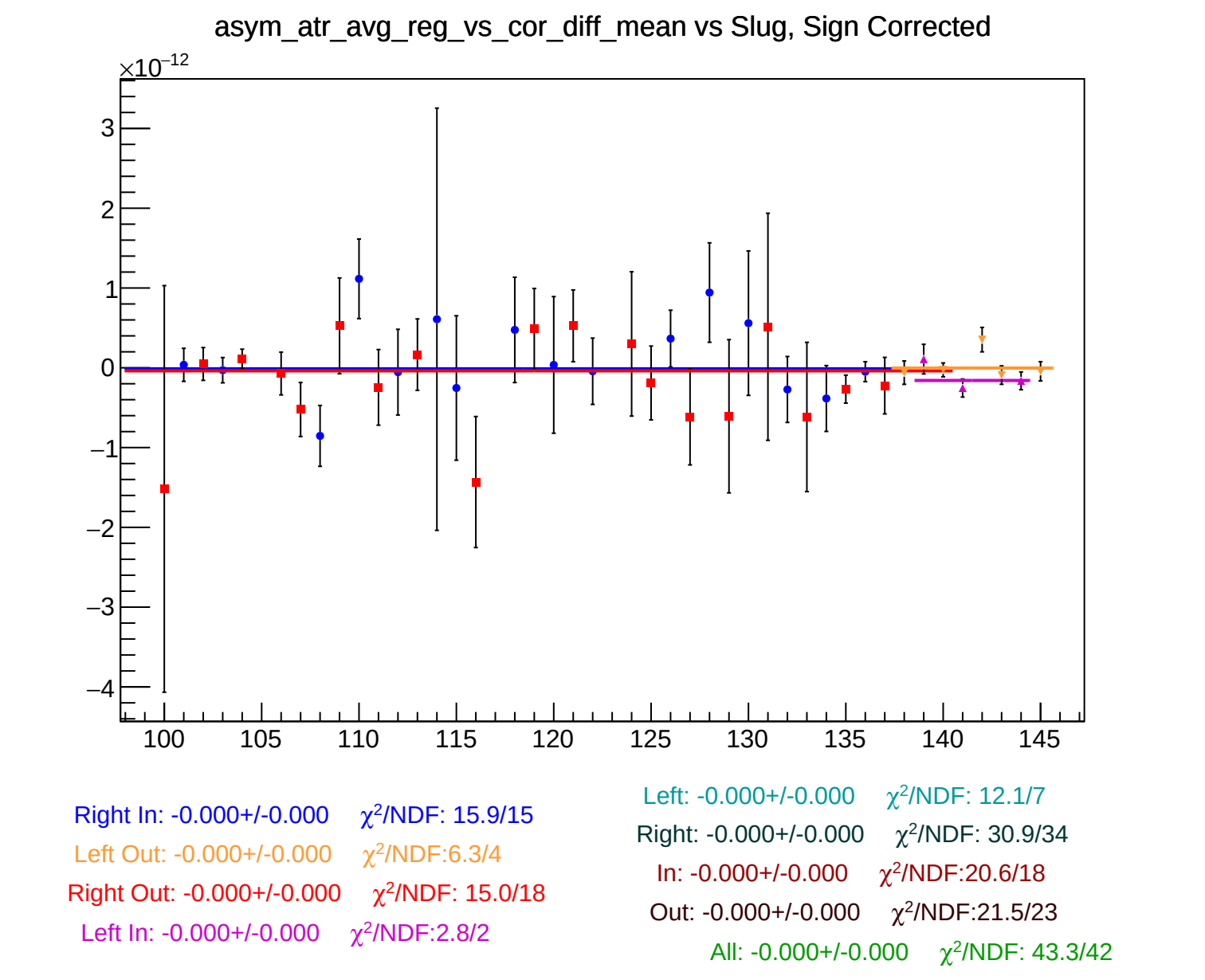
Left: 4946.772+/-1.398 $\chi^2$/NDF: 48065.1/7

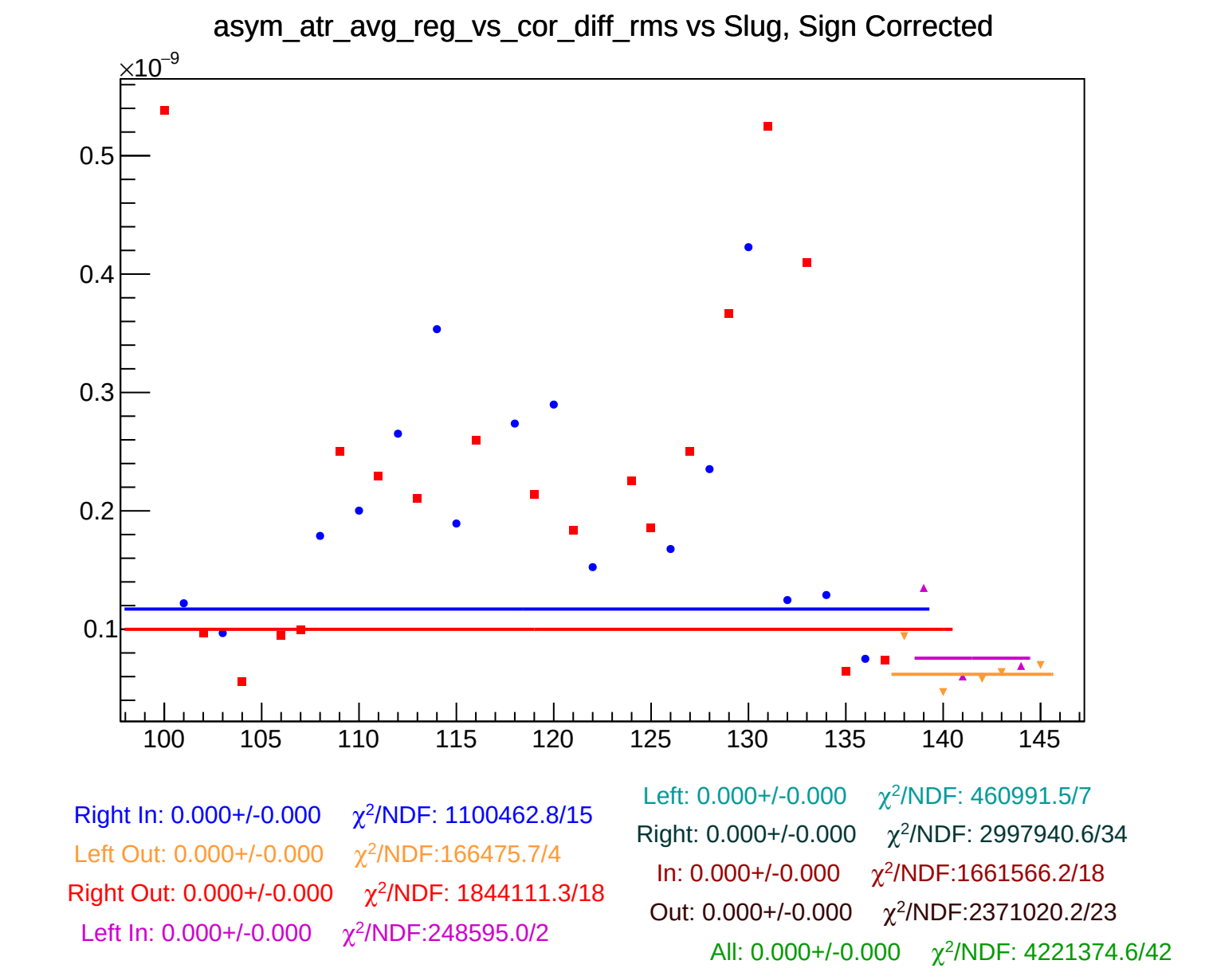
Right: 4459.059+/-0.858 $\chi^2$/NDF: 1839292.8/34

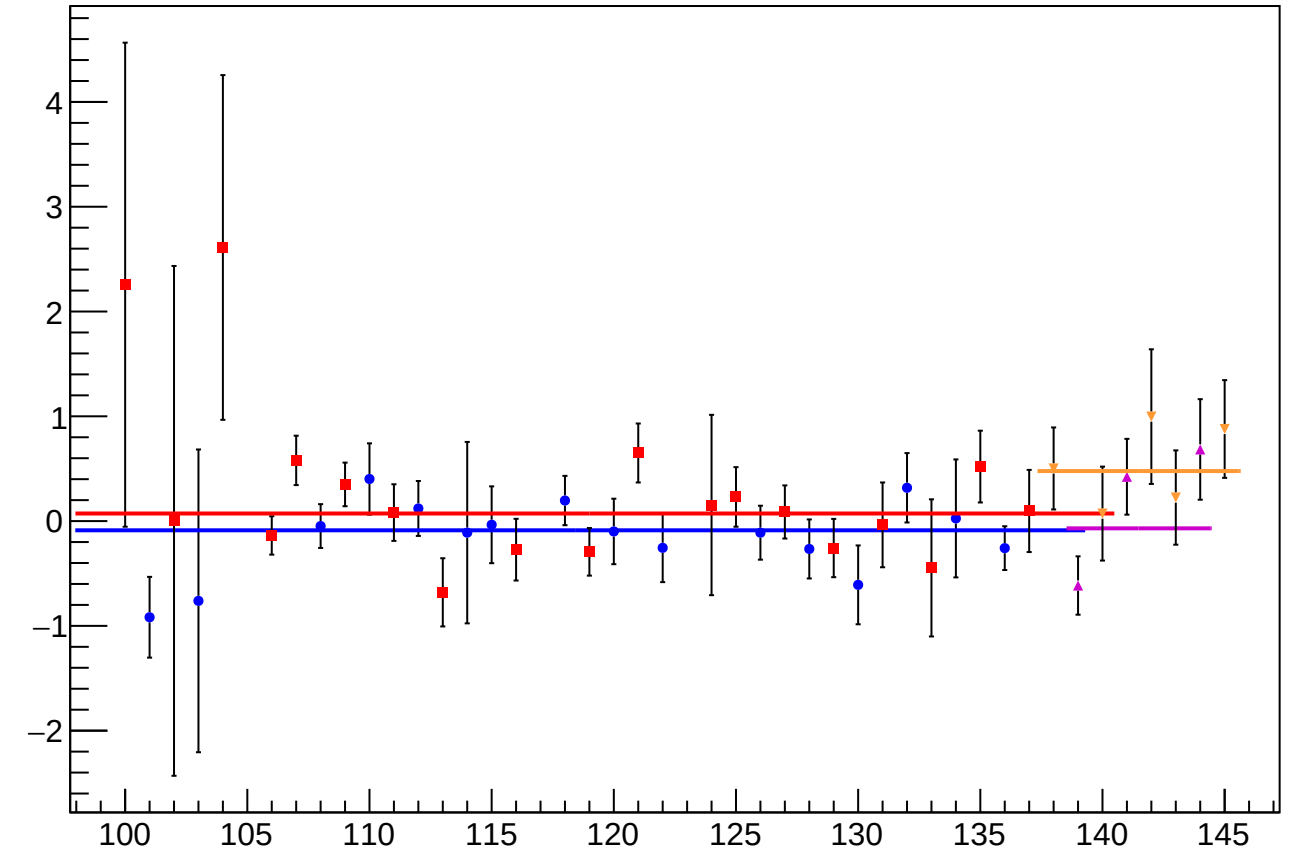
In: 4730.023+/-1.094 $\chi^2$/NDF:952630.6/18

Out: 4481.583+/-0.983 $\chi^2$/NDF:994607.0/23

All: 4592.542+/-0.731 $\chi^2$/NDF: 1975756.8/42


asym_atr_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
3
2
1
0
−1
−2
−3
−4
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 15.9/15
Left Out: -0.000+/-0.000 χ²/NDF:6.3/4
Right Out: -0.000+/-0.000 χ²/NDF: 15.0/18
Left In: -0.000+/-0.000 χ²/NDF:2.8/2
Left: -0.000+/-0.000 χ²/NDF: 12.1/7
Right: -0.000+/-0.000 χ²/NDF: 30.9/34
In: -0.000+/-0.000 χ²/NDF:20.6/18
Out: -0.000+/-0.000 χ²/NDF:21.5/23
All: -0.000+/-0.000 χ²/NDF: 43.3/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1100462.8/15
Left Out: 0.000+/-0.000 χ²/NDF:166475.7/4
Right Out: 0.000+/-0.000 χ²/NDF: 1844111.3/18
Left In: 0.000+/-0.000 χ²/NDF:248595.0/2
Left: 0.000+/-0.000 χ²/NDF: 460991.5/7
Right: 0.000+/-0.000 χ²/NDF: 2997940.6/34
In: 0.000+/-0.000 χ²/NDF:1661566.2/18
Out: 0.000+/-0.000 χ²/NDF:2371020.2/23
All: 0.000+/-0.000 χ²/NDF: 4221374.6/42




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: 0.477+/-0.206 $\chi^2$/NDF:2.5/4

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.069+/-0.200 $\chi^2$/NDF:8.2/2

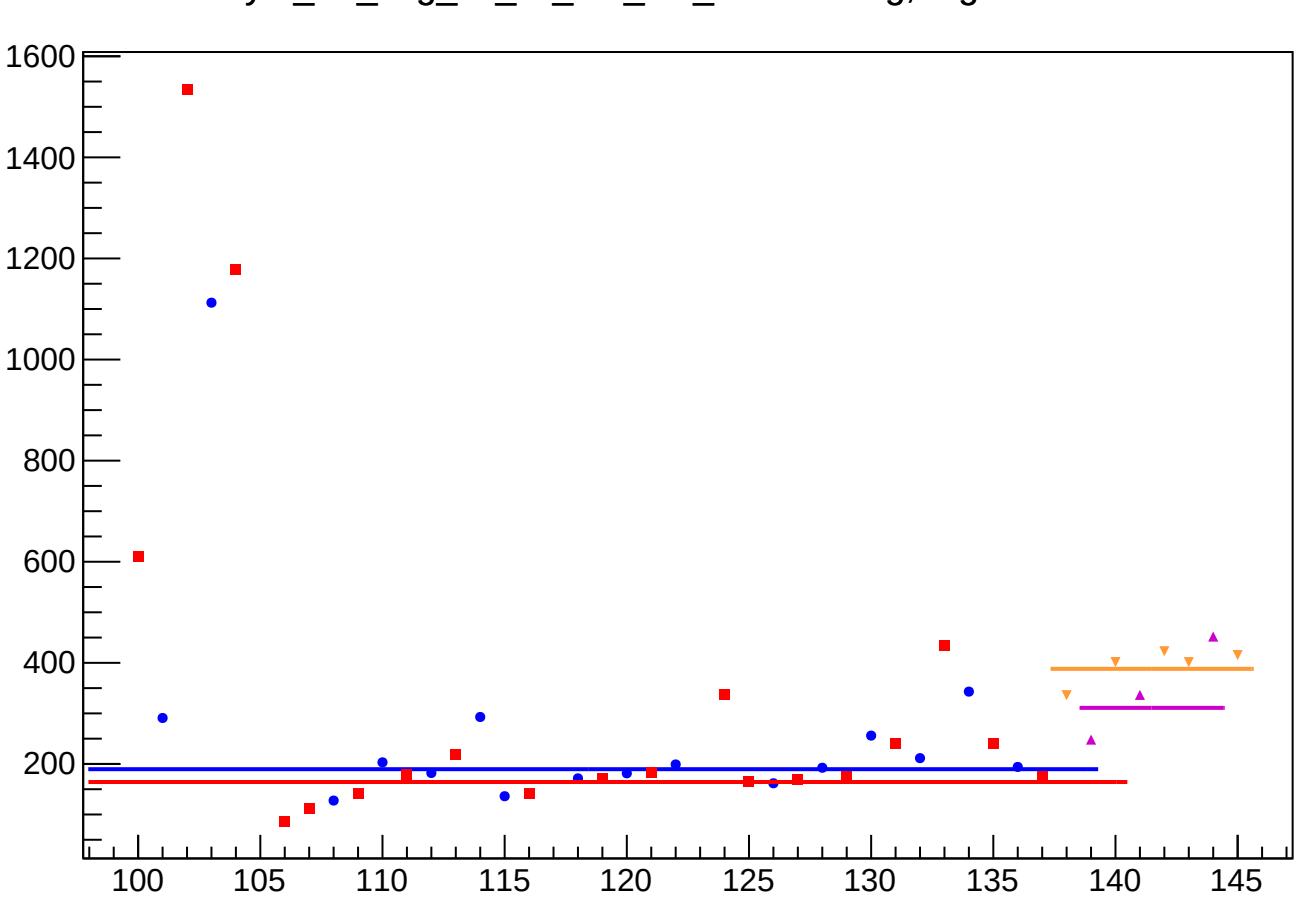
Left: 0.196+/-0.144 $\chi^2$/NDF: 14.3/7

Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.086+/-0.072 $\chi^2$/NDF:22.0/18

Out: 0.114+/-0.066 $\chi^2$/NDF:34.6/23

All: 0.022+/-0.049 $\chi^2$/NDF: 60.9/42




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465476.9/15

Left Out: 388.147+/-0.146 $\chi^2$/NDF:51750.9/4

Right Out: 164.287+/-0.050 $\chi^2$/NDF: 2643490.2/18

Left In: 310.958+/-0.142 $\chi^2$/NDF:284707.7/2

Left: 348.420+/-0.102 $\chi^2$/NDF: 480358.0/7

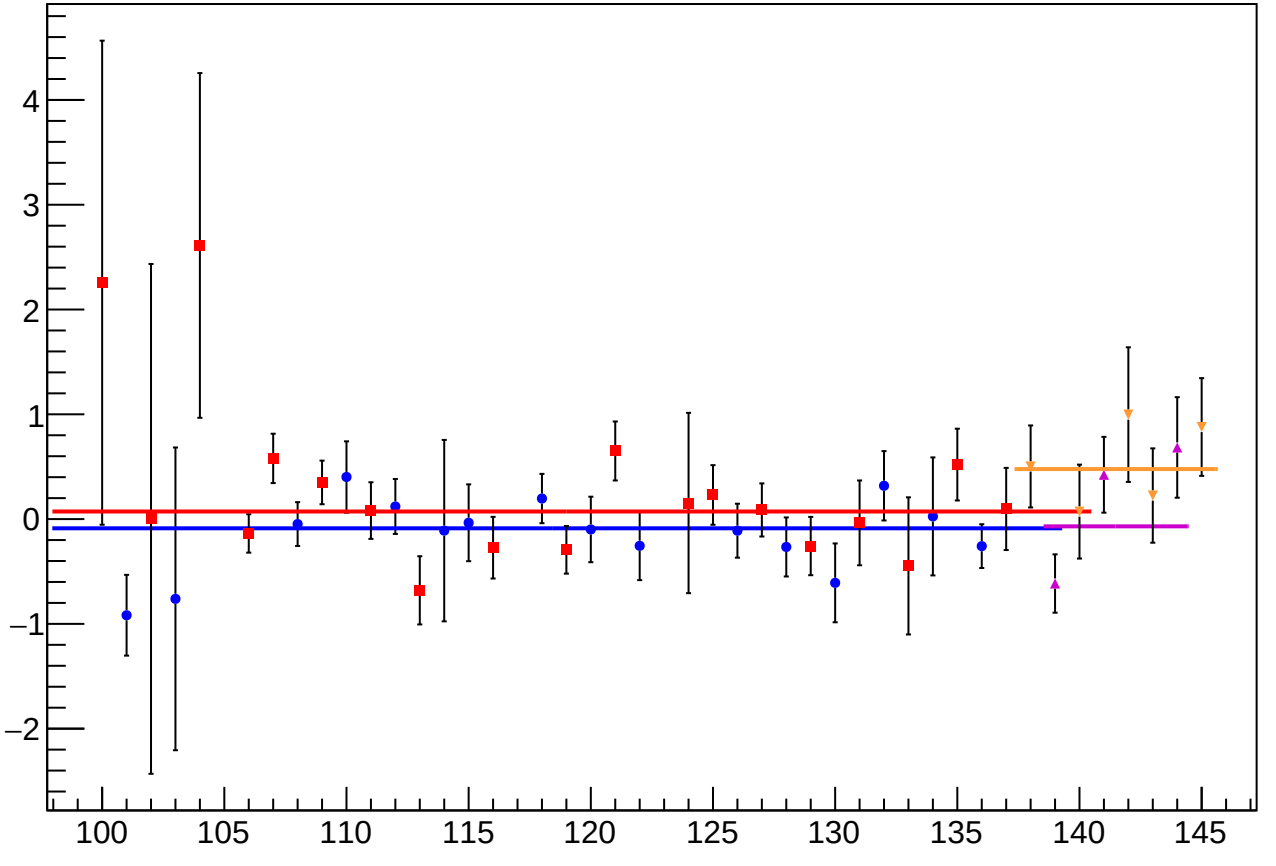
Right: 175.794+/-0.037 $\chi^2$/NDF: 4227942.3/34

In: 205.145+/-0.051 $\chi^2$/NDF:2389070.2/18

Out: 187.378+/-0.047 $\chi^2$/NDF:4804290.0/23

All: 195.569+/-0.034 $\chi^2$/NDF: 7259562.8/42

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: 0.477+/-0.206 $\chi^2$/NDF:2.5/4

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.069+/-0.200 $\chi^2$/NDF:8.2/2

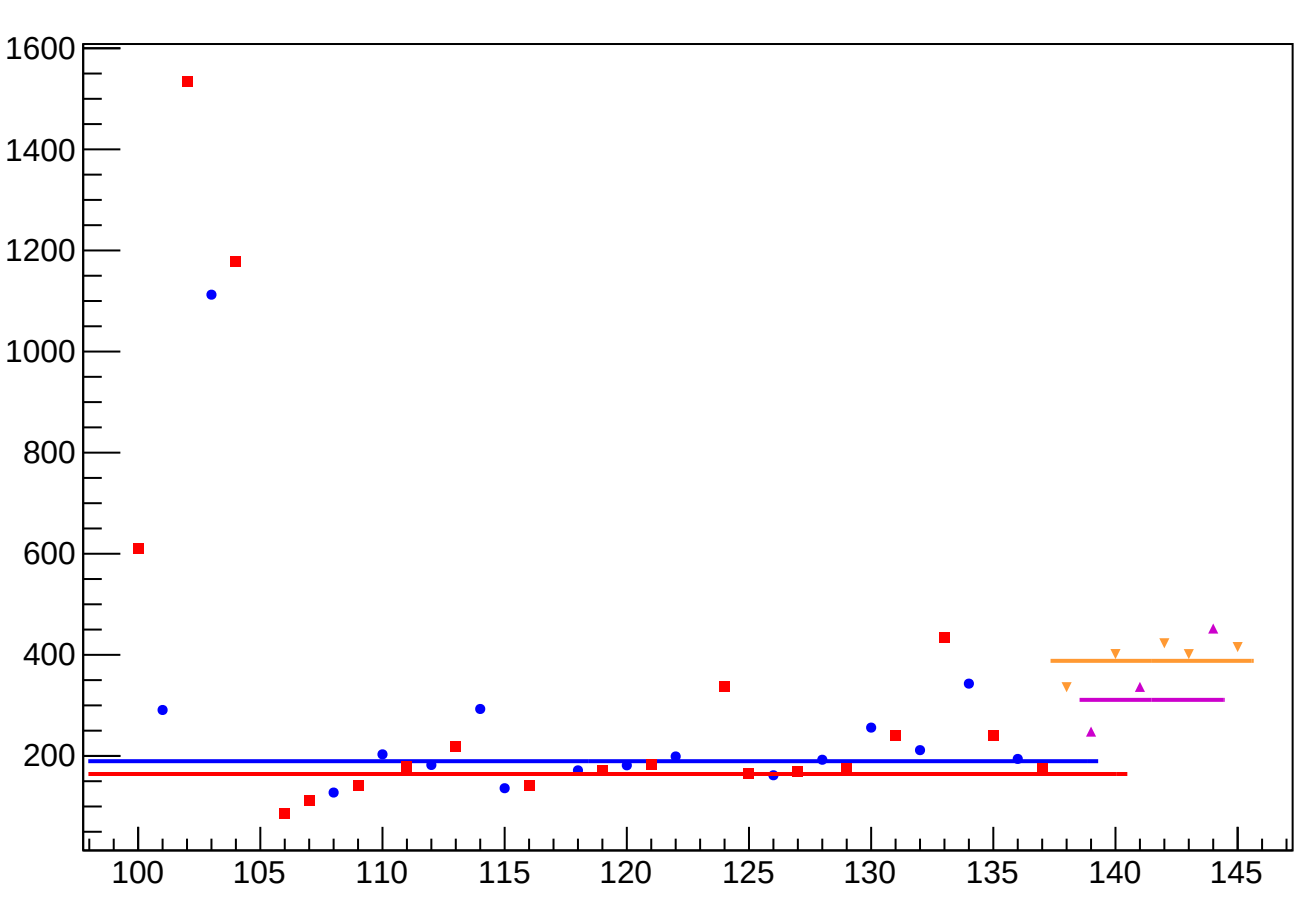
Left: 0.196+/-0.144 $\chi^2$/NDF: 14.3/7

Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.086+/-0.072 $\chi^2$/NDF:22.0/18

Out: 0.114+/-0.066 $\chi^2$/NDF:34.6/23

All: 0.022+/-0.049 $\chi^2$/NDF: 60.9/42




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465476.9/15

Left Out: 388.147+/-0.146 $\chi^2$/NDF:51750.9/4

Right Out: 164.287+/-0.050 $\chi^2$/NDF: 2643490.2/18

Left In: 310.958+/-0.142 $\chi^2$/NDF:284707.7/2

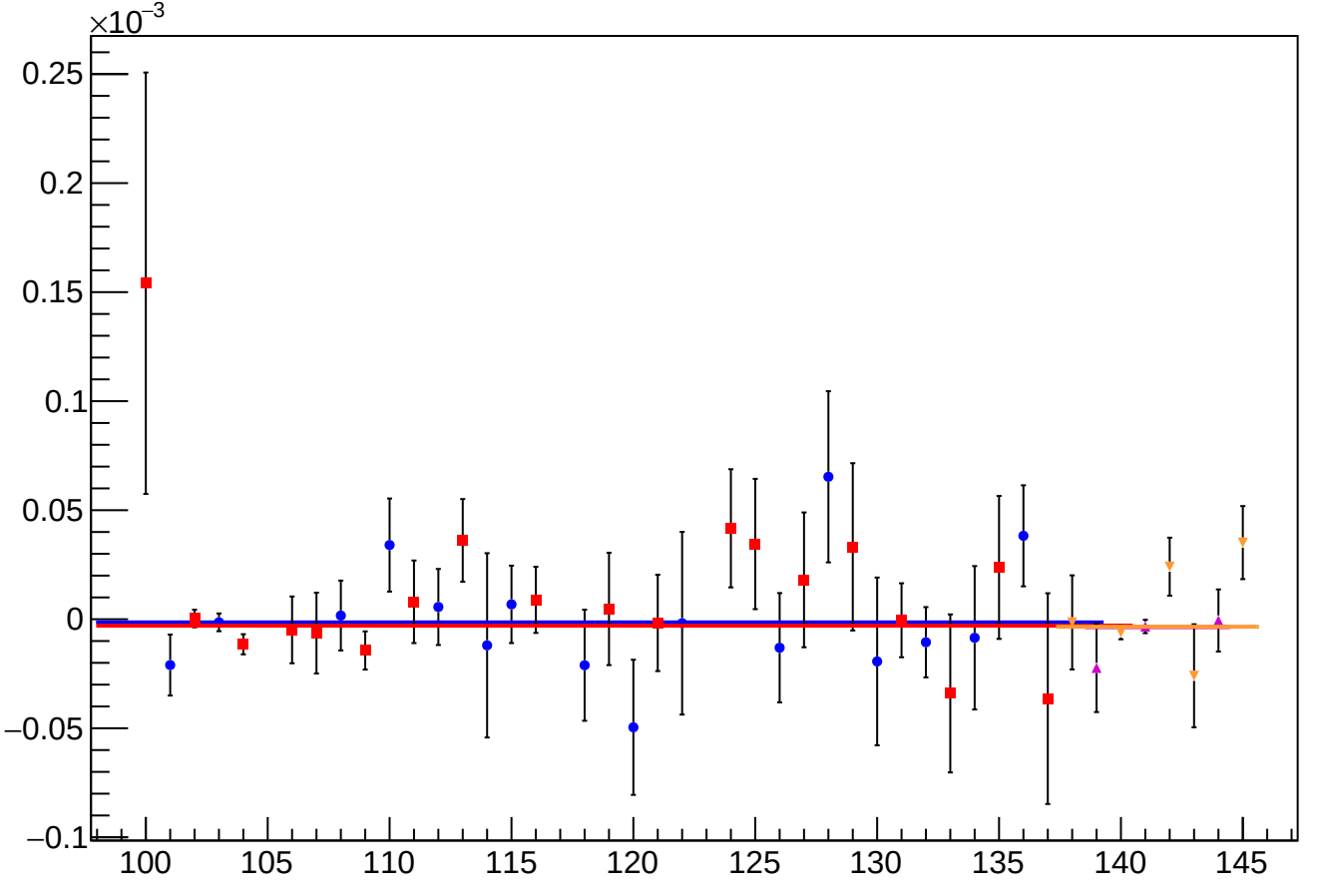
Left: 348.420+/-0.102 $\chi^2$/NDF: 480358.0/7

Right: 175.794+/-0.037 $\chi^2$/NDF: 4227942.3/34

In: 205.145+/-0.051 $\chi^2$/NDF:2389070.2/18

Out: 187.378+/-0.047 $\chi^2$/NDF:4804290.0/23

All: 195.569+/-0.034 $\chi^2$/NDF: 7259562.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:11.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.9/2

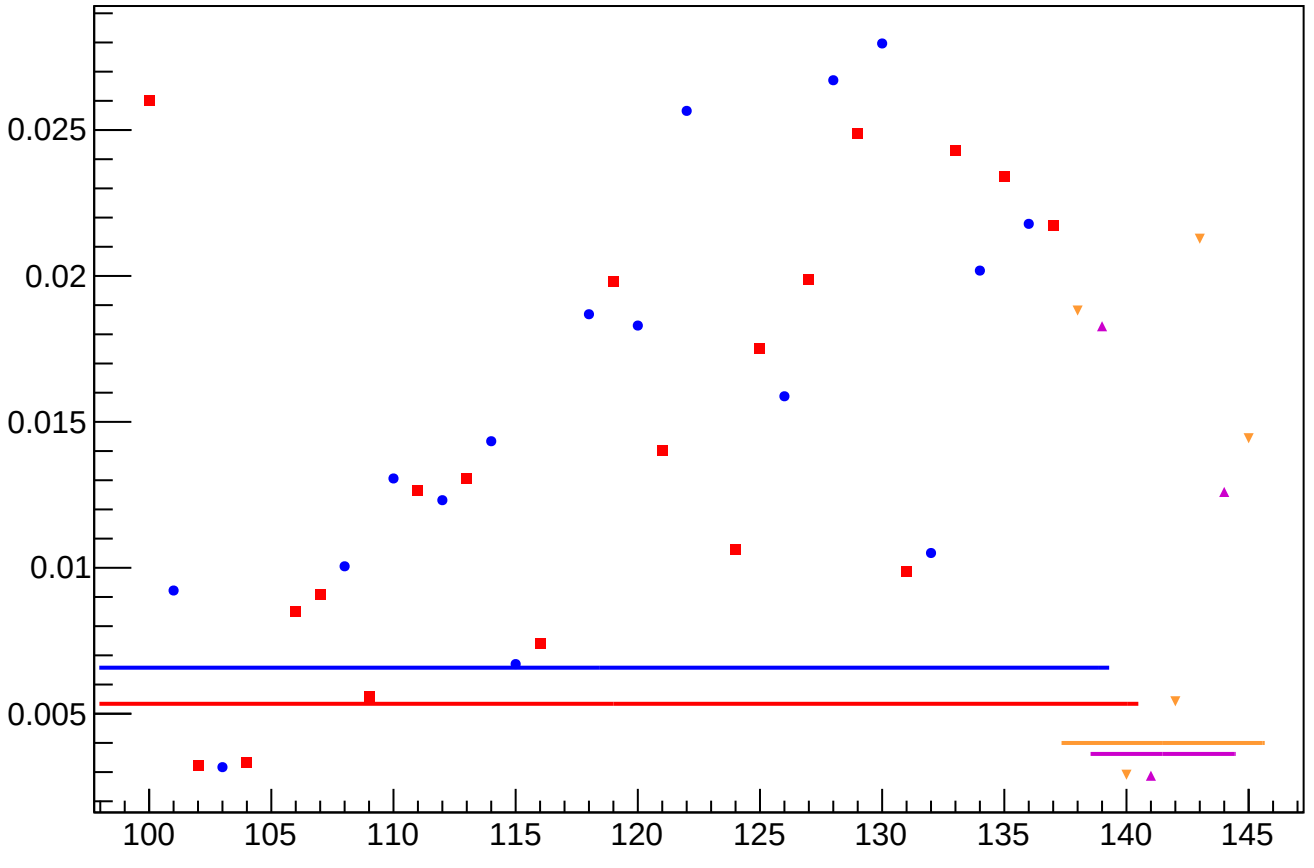
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.1/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:32.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 48.5/42




Right In: 0.007+/-0.000 $\chi^2$/NDF: 5928012.0/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:3047392.6/4

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 5685915.4/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:1958428.5/2

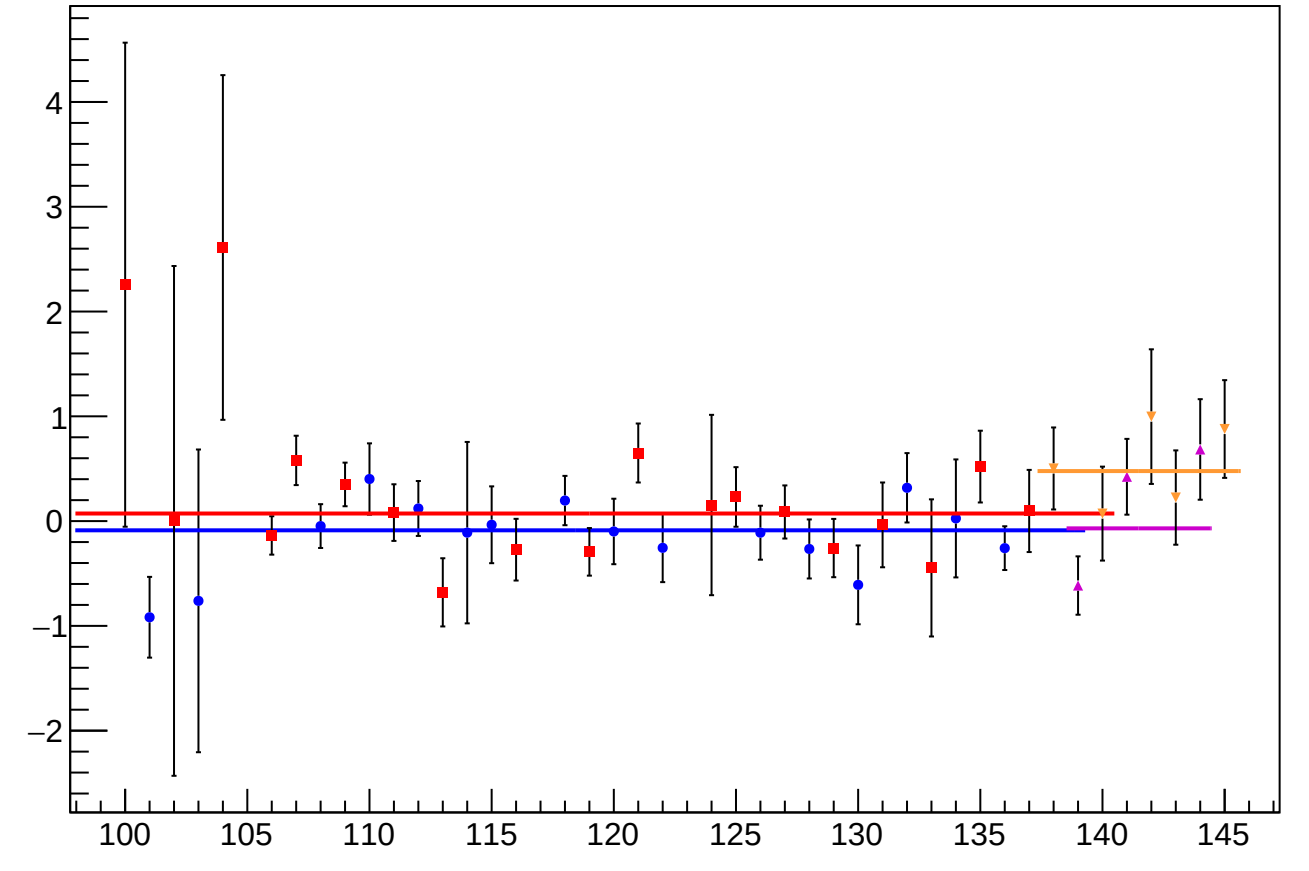
Left: 0.004+/-0.000 $\chi^2$/NDF: 5021814.5/7

Right: 0.006+/-0.000 $\chi^2$/NDF: 11788382.8/34

In: 0.005+/-0.000 $\chi^2$/NDF:8771579.4/18

Out: 0.005+/-0.000 $\chi^2$/NDF:8966147.7/23

All: 0.005+/-0.000 $\chi^2$/NDF: 17743945.1/42




Right In: -0.088+/-0.077 $\chi^2$/NDF: 13.9/15

Left Out: 0.477+/-0.206 $\chi^2$/NDF:2.5/4

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.069+/-0.200 $\chi^2$/NDF:8.2/2

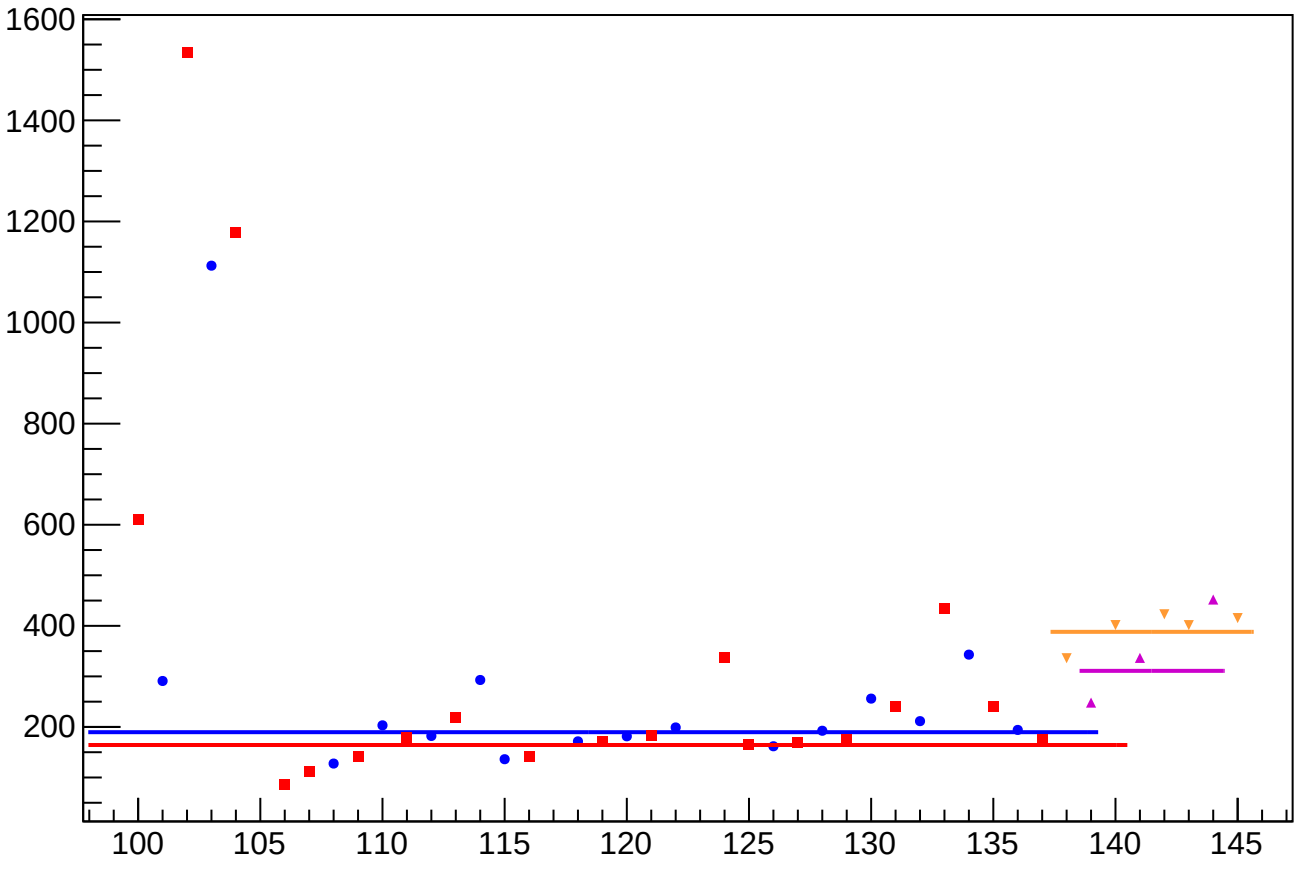
Left: 0.196+/-0.144 $\chi^2$/NDF: 14.3/7

Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.086+/-0.072 $\chi^2$/NDF:22.0/18

Out: 0.114+/-0.066 $\chi^2$/NDF:34.6/23

All: 0.022+/-0.049 $\chi^2$/NDF: 60.9/42




Right In: 189.628+/-0.054 $\chi^2$/NDF: 1465464.1/15

Left Out: 388.152+/-0.146 $\chi^2$/NDF:51747.2/4

Right Out: 164.286+/-0.050 $\chi^2$/NDF: 2643465.6/18

Left In: 310.961+/-0.142 $\chi^2$/NDF:284699.2/2

Left: 348.424+/-0.102 $\chi^2$/NDF: 480346.8/7

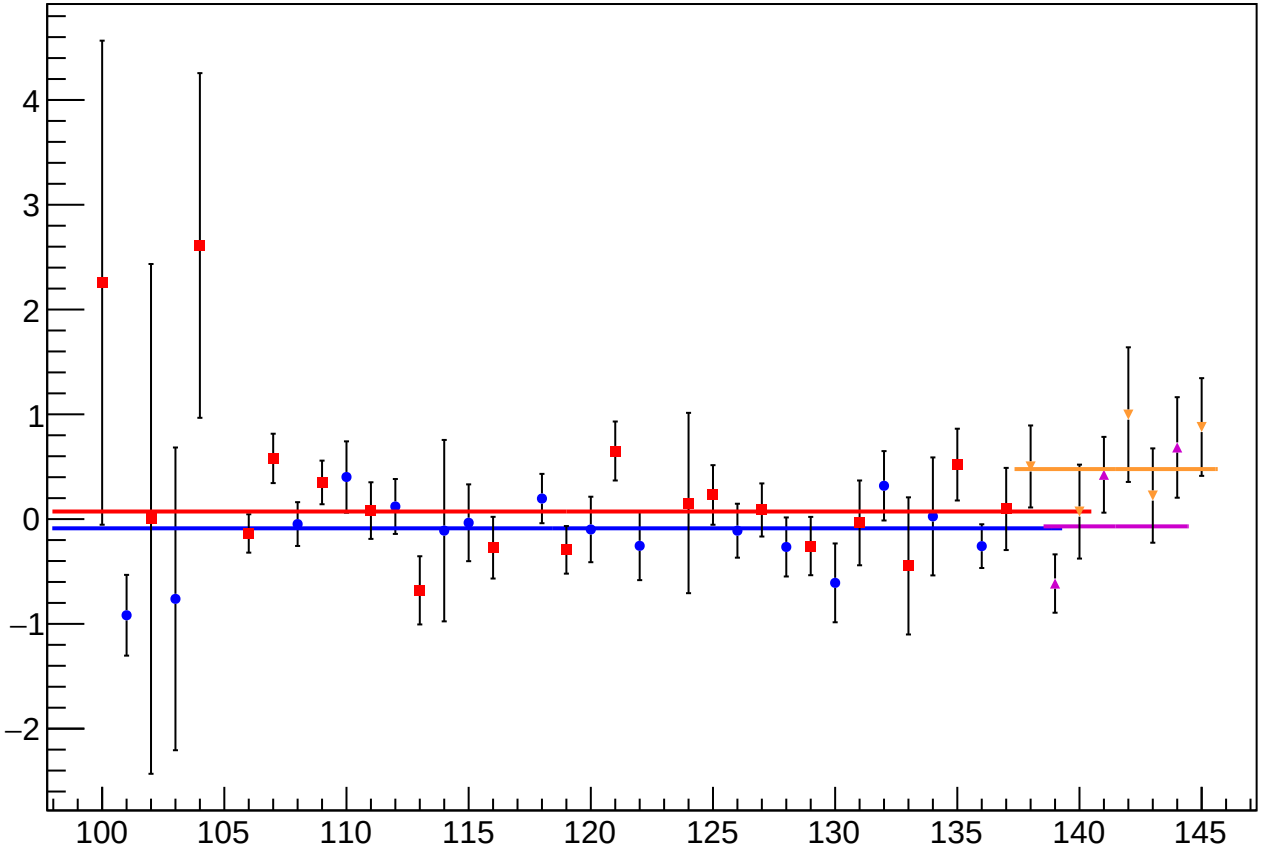
Right: 175.793+/-0.037 $\chi^2$/NDF: 4227906.3/34

In: 205.144+/-0.051 $\chi^2$/NDF:2389081.2/18

Out: 187.377+/-0.047 $\chi^2$/NDF:4804319.5/23

All: 195.568+/-0.034 $\chi^2$/NDF: 7259606.1/42

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: 0.477+/-0.206 $\chi^2$/NDF:2.5/4

Right Out: 0.072+/-0.070 $\chi^2$/NDF: 28.7/18

Left In: -0.069+/-0.200 $\chi^2$/NDF:8.2/2

Left: 0.196+/-0.144 $\chi^2$/NDF: 14.3/7

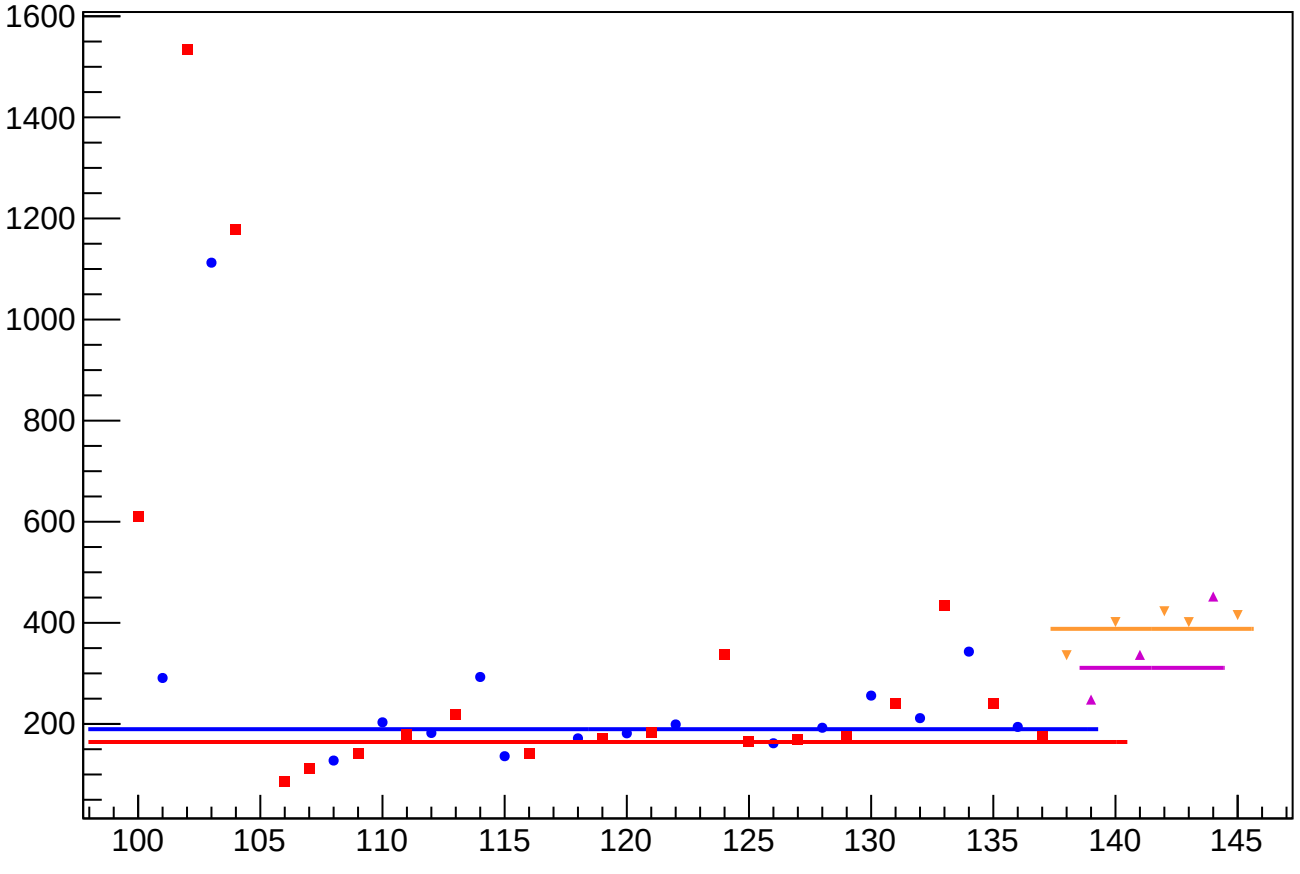
Right: -0.000+/-0.052 $\chi^2$/NDF: 44.9/34

In: -0.086+/-0.072 $\chi^2$/NDF:22.0/18

Out: 0.114+/-0.066 $\chi^2$/NDF:34.6/23

All: 0.022+/-0.049 $\chi^2$/NDF: 60.9/42

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: 388.152+/-0.146 $\chi^2$/NDF:51747.2/4

Right Out: 164.286+/-0.050 $\chi^2$/NDF: 2643465.6/18

Left In: 310.961+/-0.142 $\chi^2$/NDF:284699.2/2

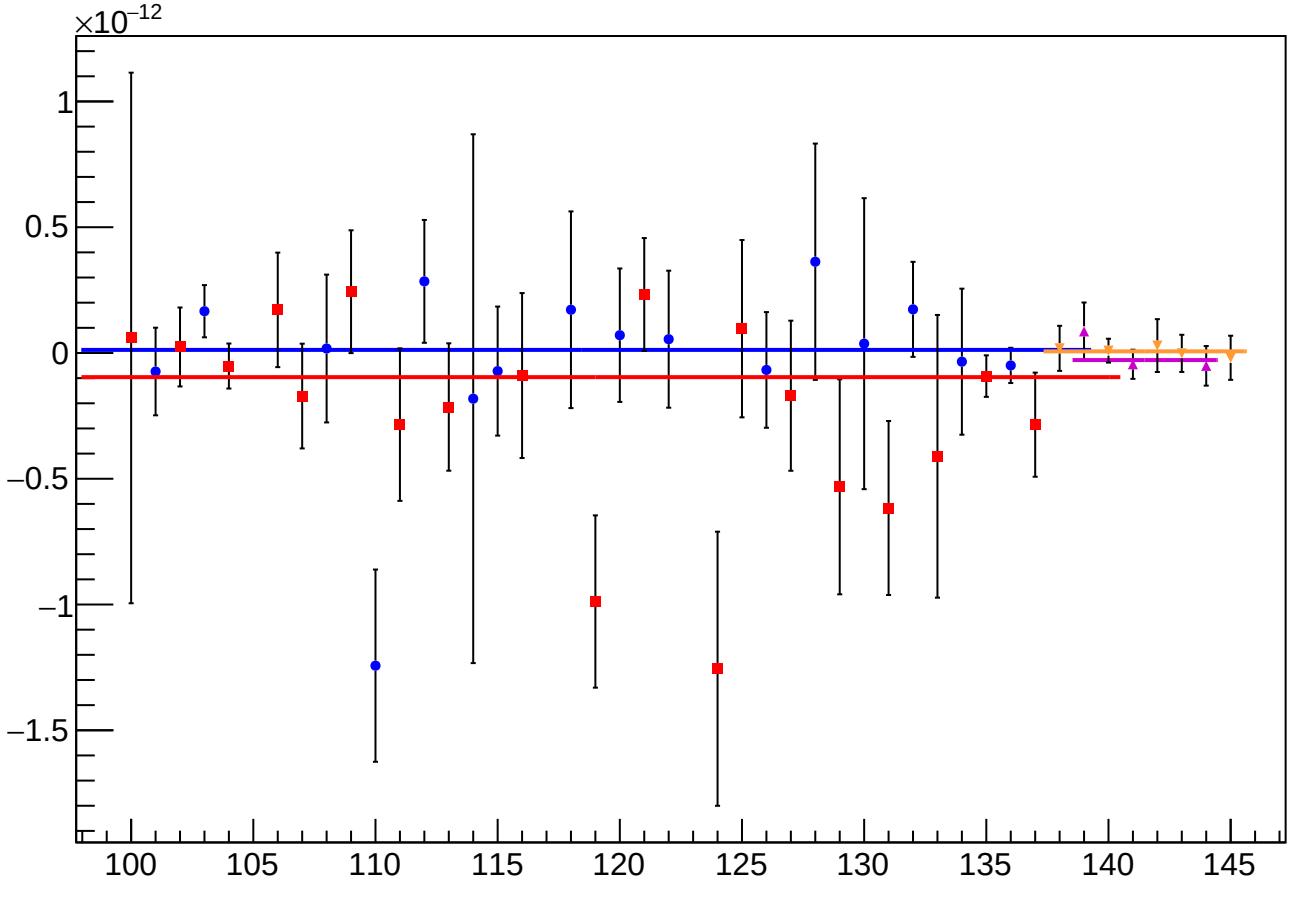
Left: 348.424+/-0.102 $\chi^2$/NDF: 480346.8/7

Right: 175.793+/-0.037 $\chi^2$/NDF: 4227906.3/34

In: 205.144+/-0.051 $\chi^2$/NDF:2389081.2/18

Out: 187.377+/-0.047 $\chi^2$/NDF:4804319.5/23

All: 195.568+/-0.034 $\chi^2$/NDF: 7259606.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.2/2

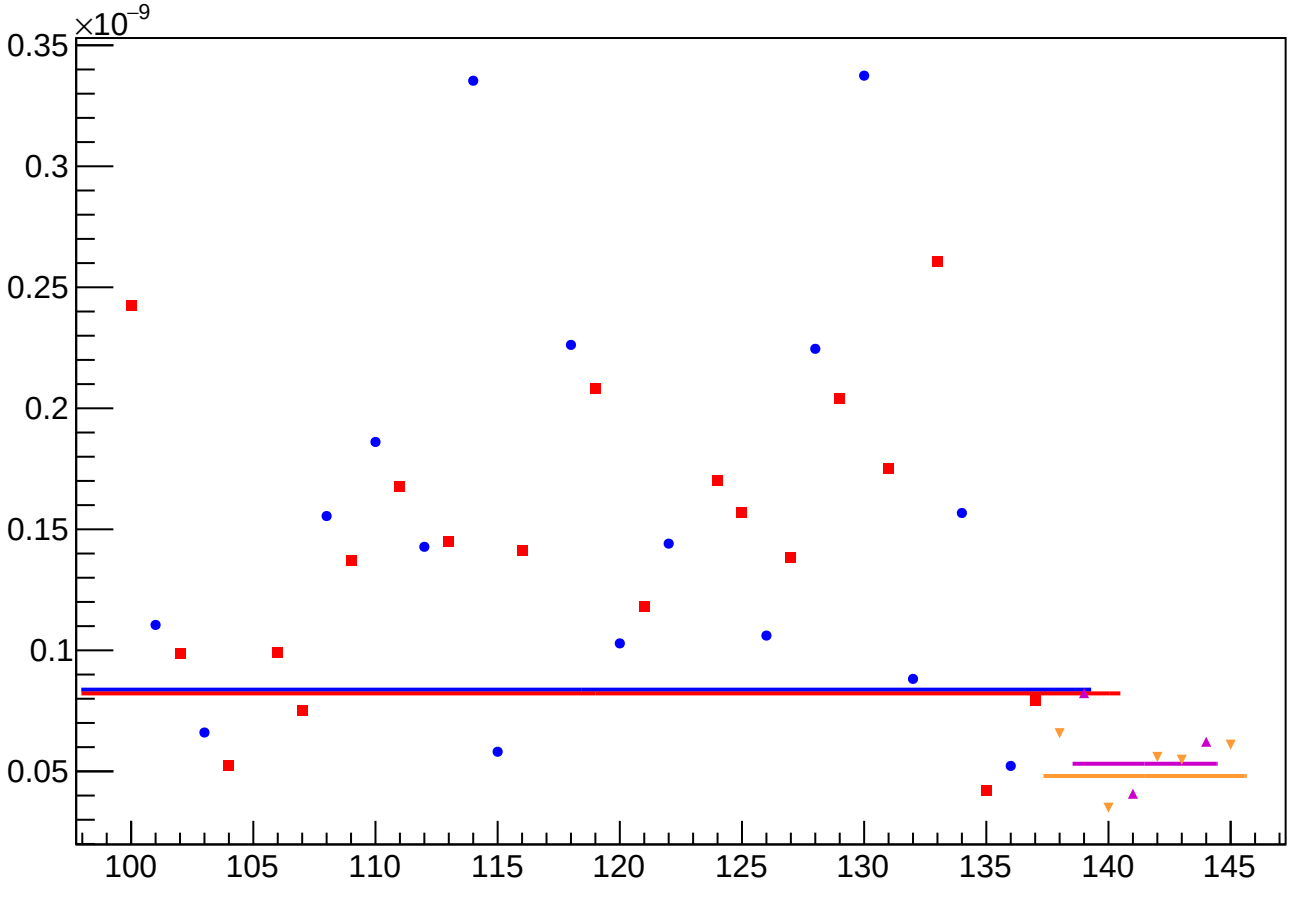
Left: -0.000+/-0.000 $\chi^2$/NDF: 1.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:26.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 45.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2109060.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:302213.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2271900.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:247311.2/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 567239.6/7

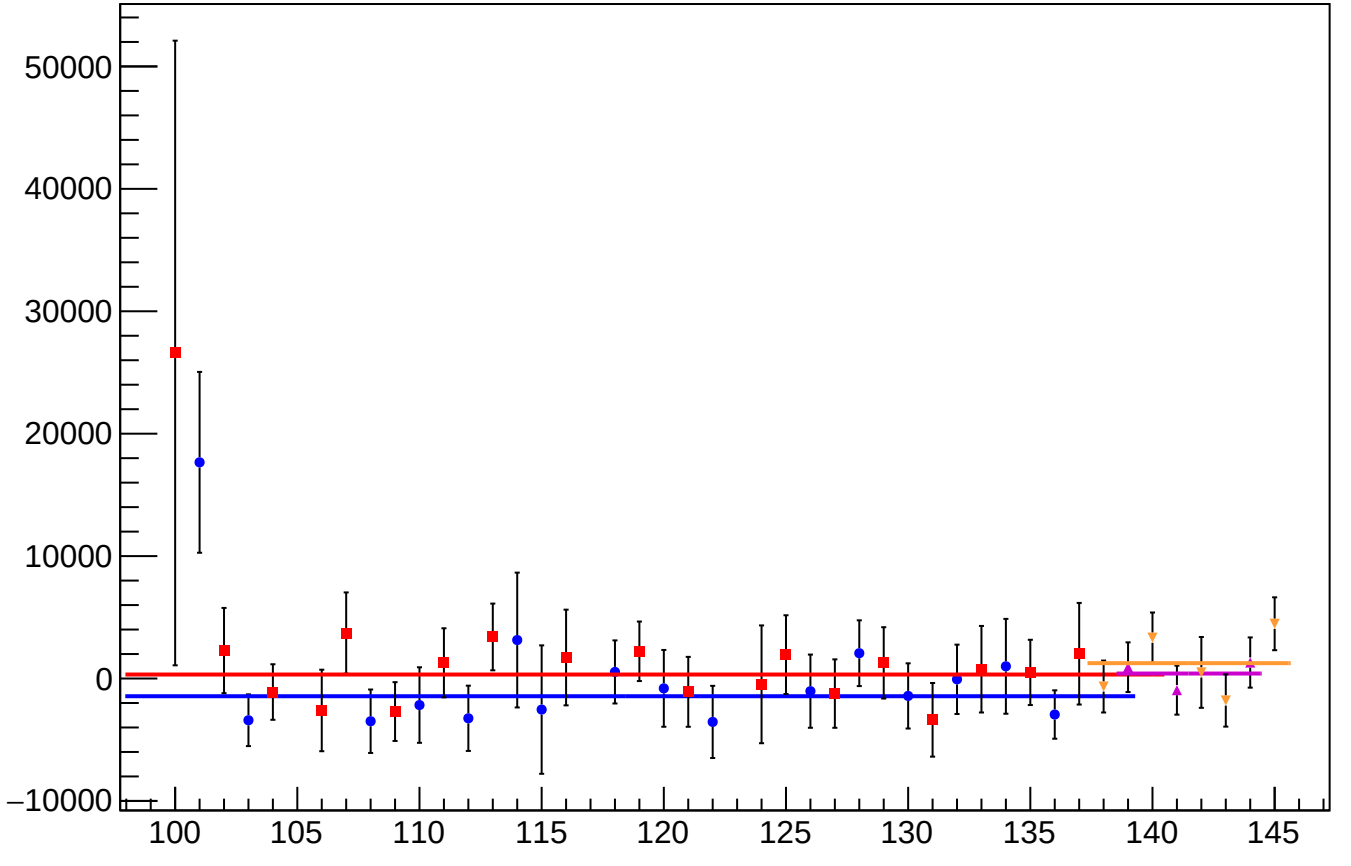
Right: 0.000+/-0.000 $\chi^2$/NDF: 4382137.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:2831354.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3343323.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6251685.5/42

# reg_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1446.547+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 1254.037+/-993.699 $\chi^2$/NDF:6.2/4

Right Out: 325.908+/-702.648 $\chi^2$/NDF: 9.9/18

Left In: 407.268+/-1170.396 $\chi^2$/NDF:0.7/2

Left: 899.333+/-757.502 $\chi^2$/NDF: 7.2/7

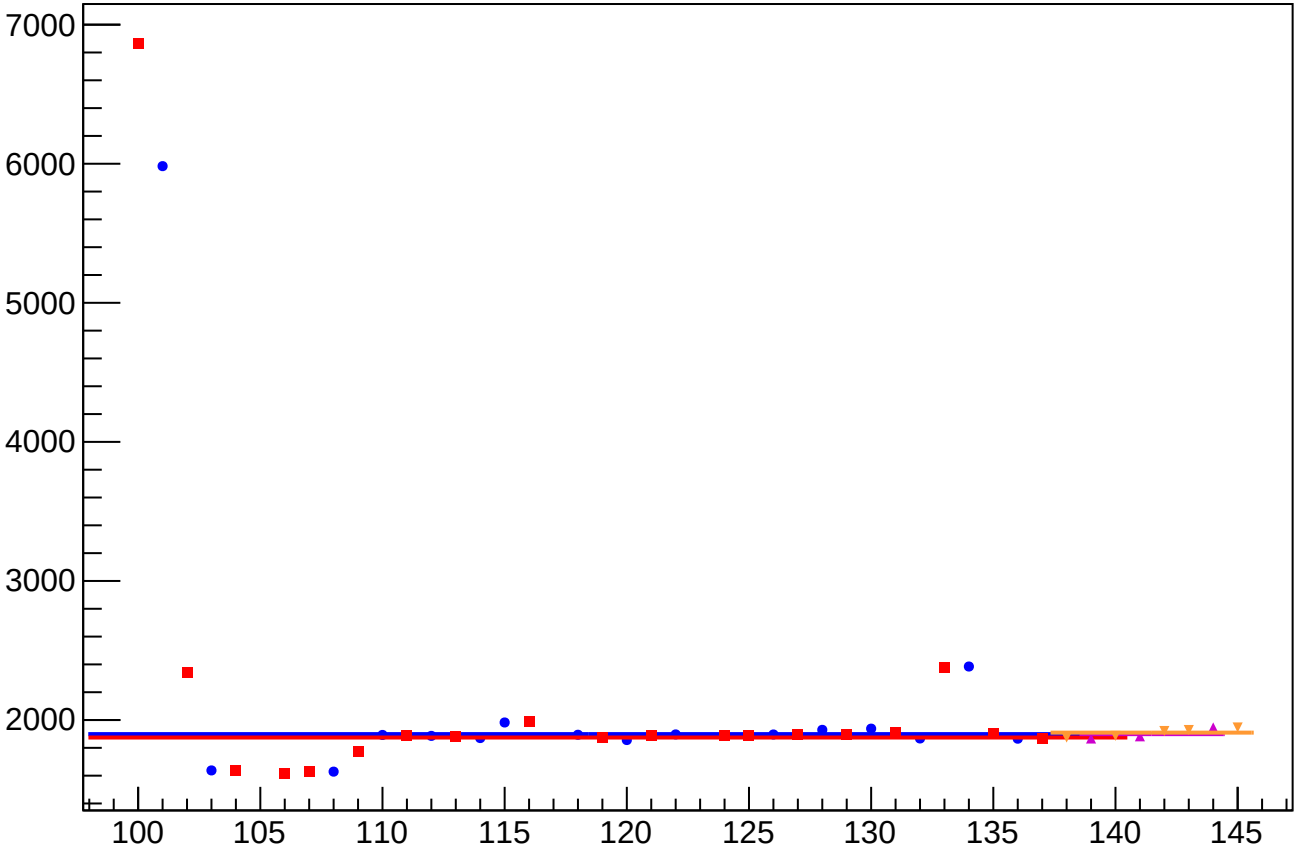
Right: -534.850+/-503.936 $\chi^2$/NDF: 26.5/34

In: -934.374+/-615.188 $\chi^2$/NDF:16.0/18

Out: 635.282+/-573.711 $\chi^2$/NDF:16.7/23

All: -94.852+/-419.572 $\chi^2$/NDF: 36.2/42

# reg_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.2/15

Left Out: 1909.449+/-0.703 $\chi^2$/NDF:1583.2/4

Right Out: 1874.251+/-0.495 $\chi^2$/NDF: 207657.7/18

Left In: 1898.531+/-0.828 $\chi^2$/NDF:1694.1/2

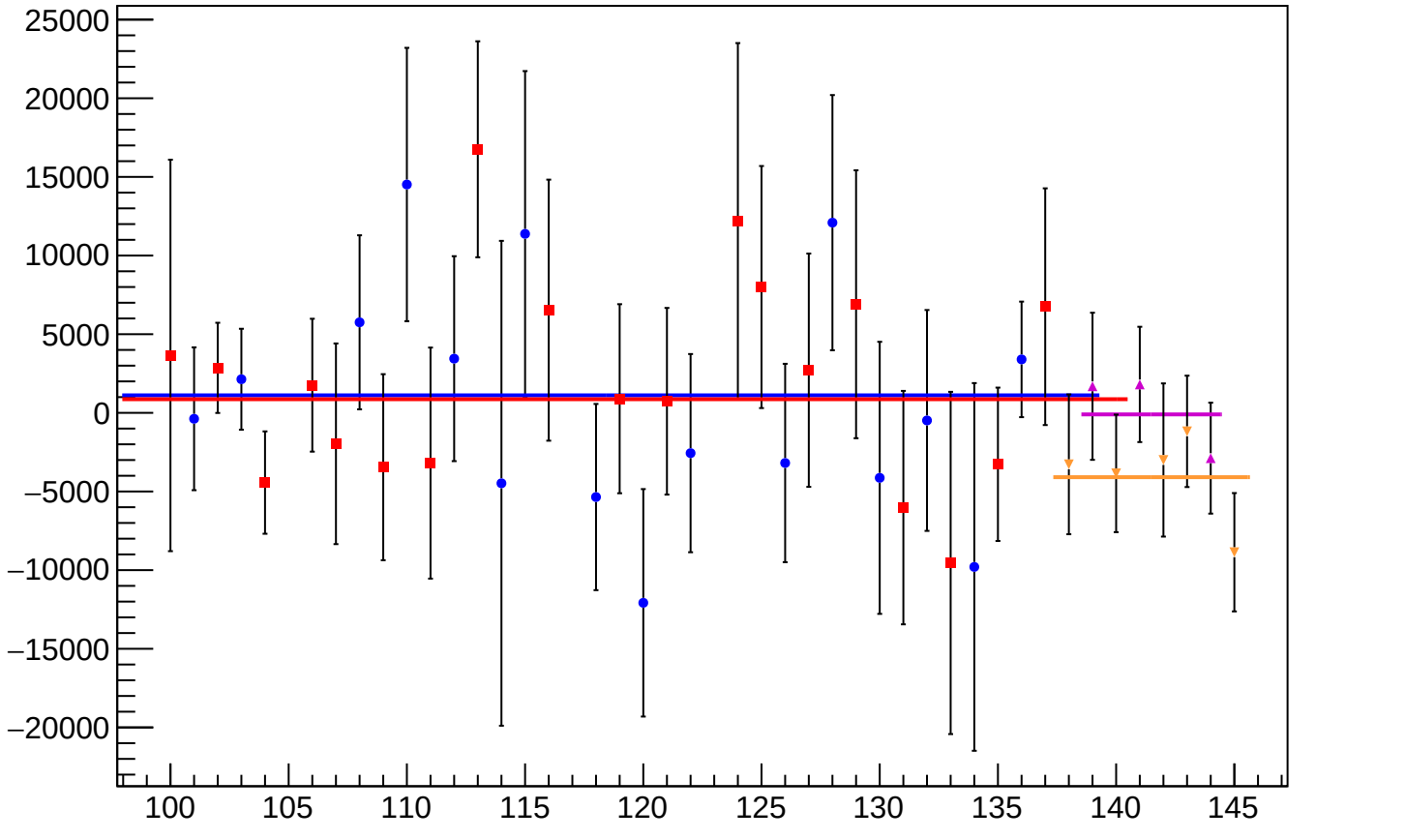
Left: 1904.876+/-0.536 $\chi^2$/NDF: 3378.4/7

Right: 1886.144+/-0.356 $\chi^2$/NDF: 906364.0/34

In: 1898.745+/-0.435 $\chi^2$/NDF:699208.4/18

Out: 1885.931+/-0.405 $\chi^2$/NDF:210917.6/23

All: 1891.877+/-0.296 $\chi^2$/NDF: 910591.1/42




Right In: 1112.704+/-1479.265 $\chi^2$/NDF: 13.4/15

Left Out: -4090.493+/-1782.189 $\chi^2$/NDF:2.4/4

Right Out: 866.976+/-1307.223 $\chi^2$/NDF: 15.6/18

Left In: -99.245+/-2232.649 $\chi^2$/NDF:1.0/2

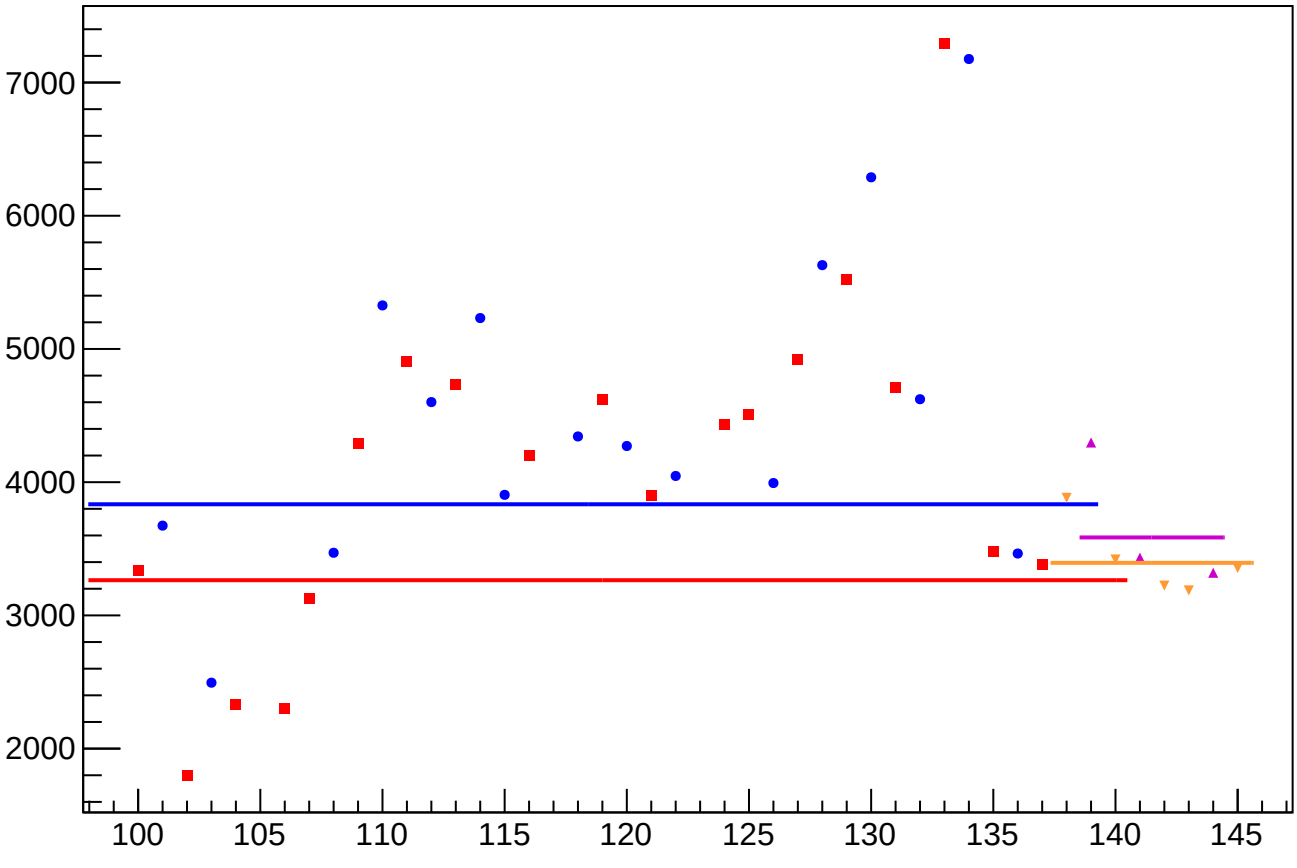
Left: -2537.115+/-1392.851 $\chi^2$/NDF: 5.4/7

Right: 974.726+/-979.552 $\chi^2$/NDF: 29.0/34

In: 742.979+/-1233.155 $\chi^2$/NDF:14.6/18

Out: -867.197+/-1054.071 $\chi^2$/NDF:23.0/23

All: -187.413+/-801.247 $\chi^2$/NDF: 38.6/42




Right In: 3834.164+/-1.046 $\chi^2$/NDF: 956775.6/15

Left Out: 3394.566+/-1.260 $\chi^2$/NDF:33725.9/4

Right Out: 3264.110+/-0.924 $\chi^2$/NDF: 1864241.4/18

Left In: 3585.127+/-1.579 $\chi^2$/NDF:61190.8/2

Left: 3468.732+/-0.985 $\chi^2$/NDF: 103816.0/7

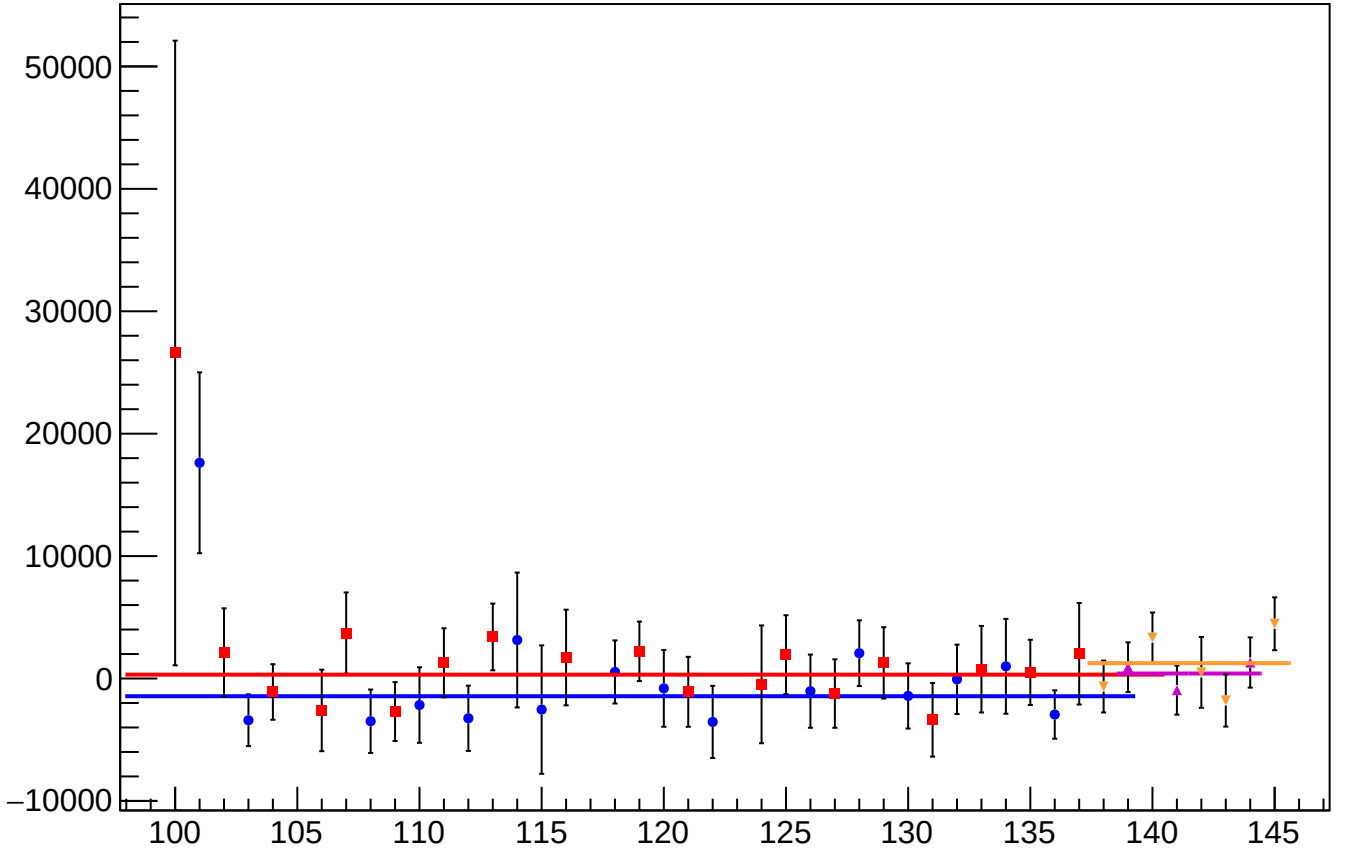
Right: 3514.075+/-0.693 $\chi^2$/NDF: 2987789.5/34

In: 3758.191+/-0.872 $\chi^2$/NDF:1035259.0/18

Out: 3309.745+/-0.745 $\chi^2$/NDF:1904935.0/23

All: 3499.070+/-0.567 $\chi^2$/NDF: 3093023.7/42

# cor_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1446.933+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 1254.204+/-993.699 $\chi^2$/NDF:6.2/4

Right Out: 315.462+/-703.596 $\chi^2$/NDF: 9.9/18

Left In: 407.307+/-1170.396 $\chi^2$/NDF:0.7/2

Left: 899.446+/-757.502 $\chi^2$/NDF: 7.2/7

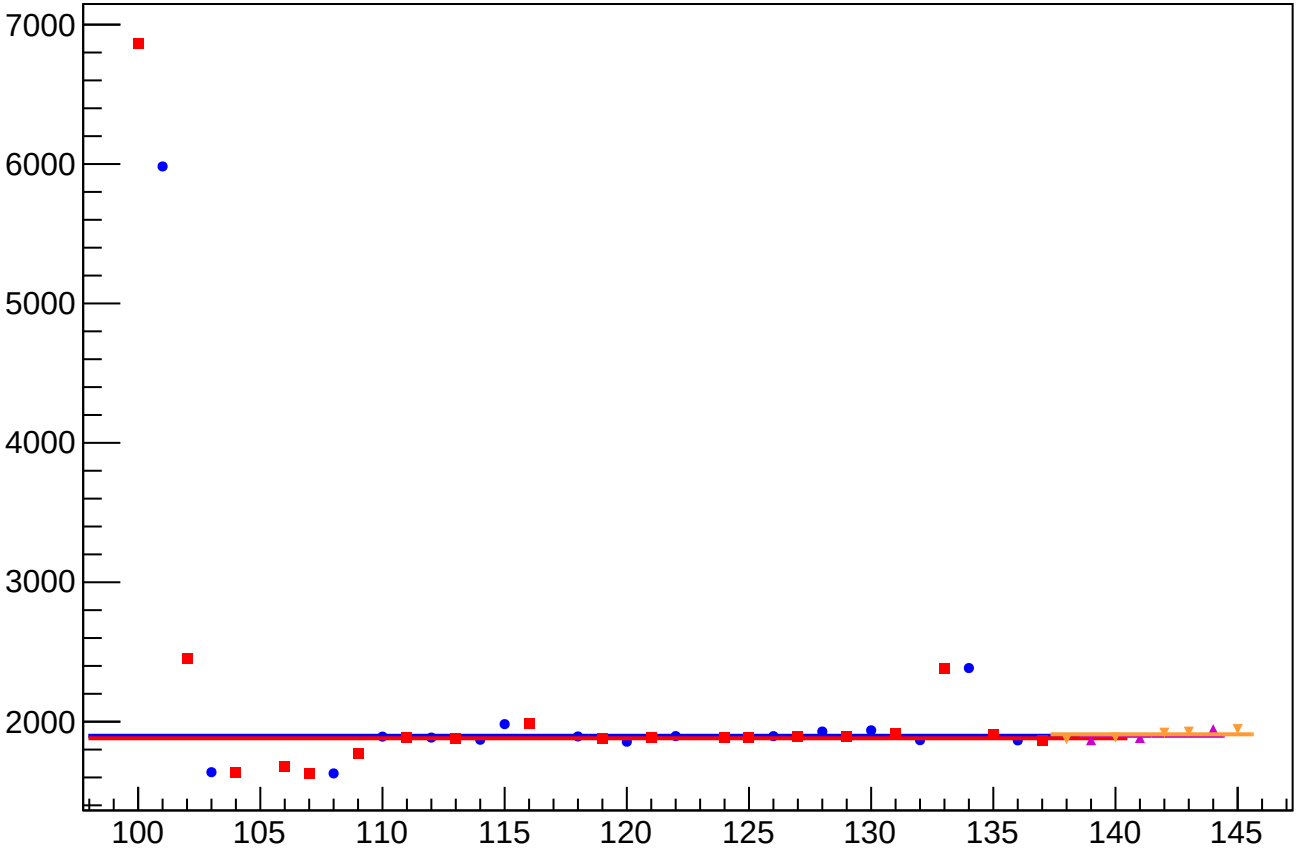
Right: -541.597+/-504.285 $\chi^2$/NDF: 26.4/34

In: -934.643+/-615.188 $\chi^2$/NDF:16.0/18

Out: 628.937+/-574.226 $\chi^2$/NDF:16.6/23

All: -99.069+/-419.774 $\chi^2$/NDF: 36.1/42

# cor_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.4/15

Left Out: 1909.449+/-0.703 $\chi^2$/NDF:1583.2/4

Right Out: 1881.007+/-0.497 $\chi^2$/NDF: 216564.4/18

Left In: 1898.531+/-0.828 $\chi^2$/NDF:1694.1/2

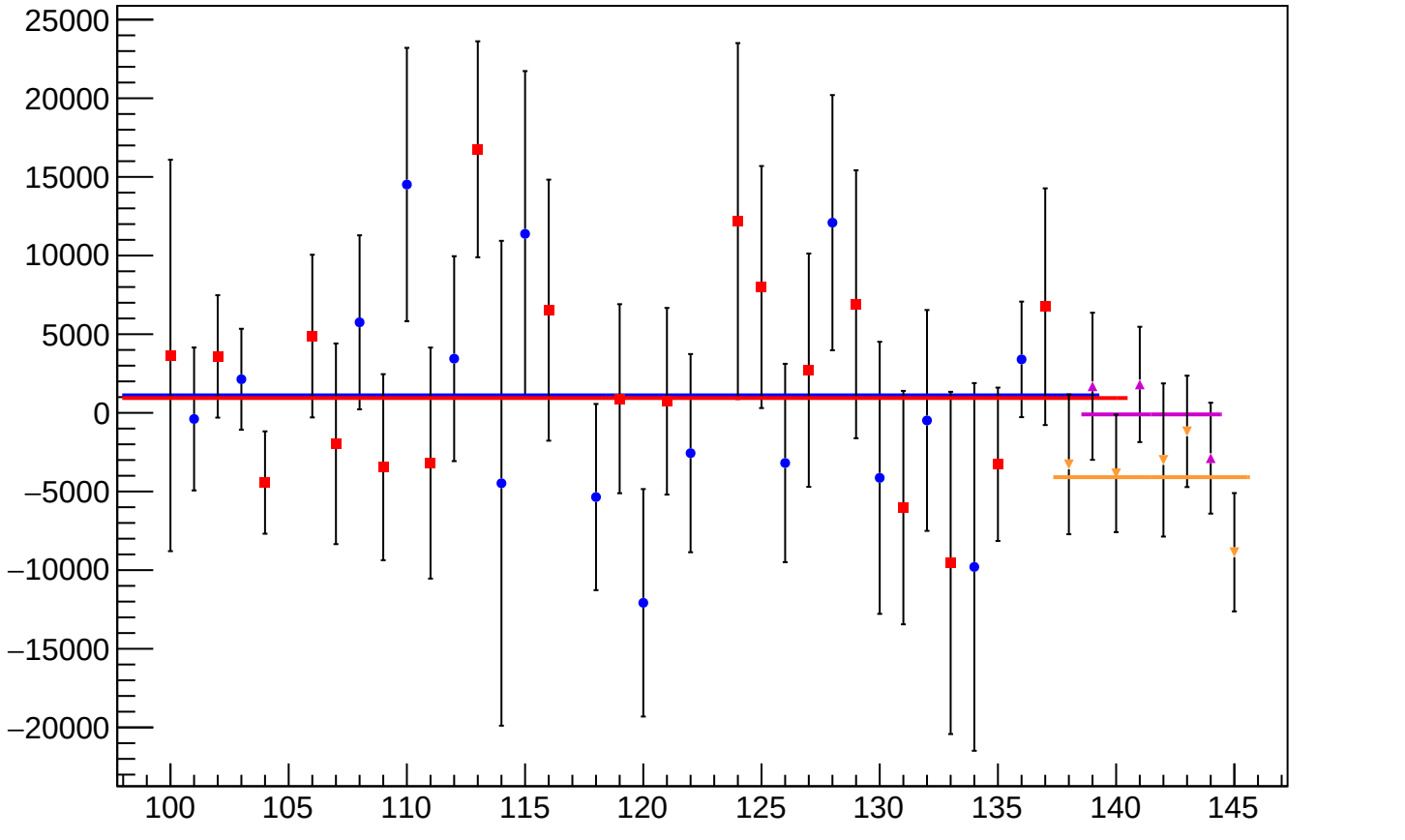
Left: 1904.876+/-0.536 $\chi^2$/NDF: 3378.4/7

Right: 1889.658+/-0.356 $\chi^2$/NDF: 914703.5/34

In: 1898.744+/-0.435 $\chi^2$/NDF:699208.6/18

Out: 1890.485+/-0.406 $\chi^2$/NDF:219240.1/23

All: 1894.326+/-0.297 $\chi^2$/NDF: 918641.5/42




Right In: 1111.533+/-1479.438 $\chi^2$/NDF: 13.4/15

Left Out: -4090.209+/-1782.185 $\chi^2$/NDF:2.4/4

Right Out: 940.712+/-1398.993 $\chi^2$/NDF: 16.2/18

Left In: -99.457+/-2232.639 $\chi^2$/NDF:1.0/2

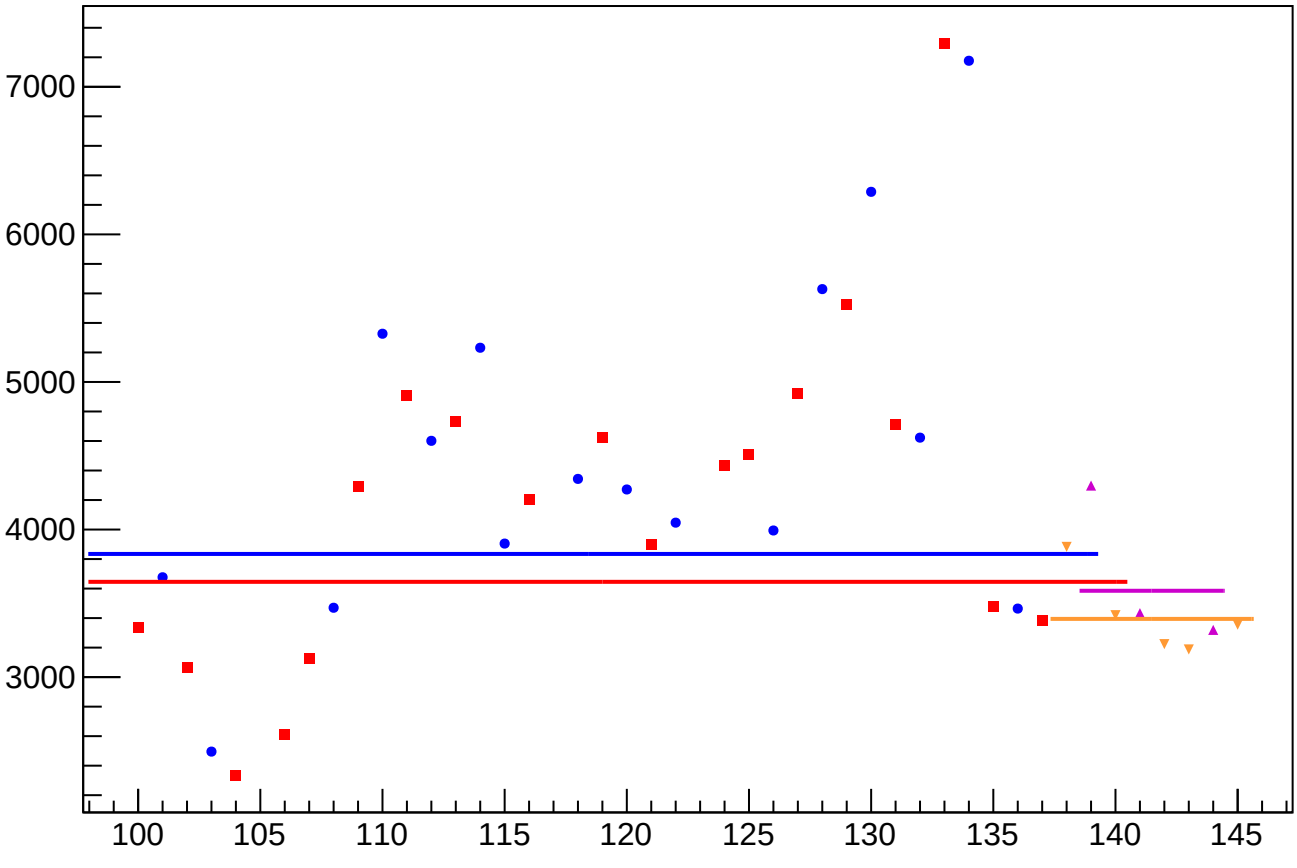
Left: -2537.020+/-1392.846 $\chi^2$/NDF: 5.4/7

Right: 1021.352+/-1016.487 $\chi^2$/NDF: 29.6/34

In: 742.038+/-1233.253 $\chi^2$/NDF:14.6/18

Out: -977.411+/-1100.442 $\chi^2$/NDF:23.5/23

All: -215.225+/-821.085 $\chi^2$/NDF: 39.2/42




Right In: 3834.690+/-1.046 $\chi^2$/NDF: 956312.2/15

Left Out: 3394.558+/-1.260 $\chi^2$/NDF:33727.9/4

Right Out: 3645.689+/-0.989 $\chi^2$/NDF: 1124981.4/18

Left In: 3585.112+/-1.579 $\chi^2$/NDF:61191.0/2

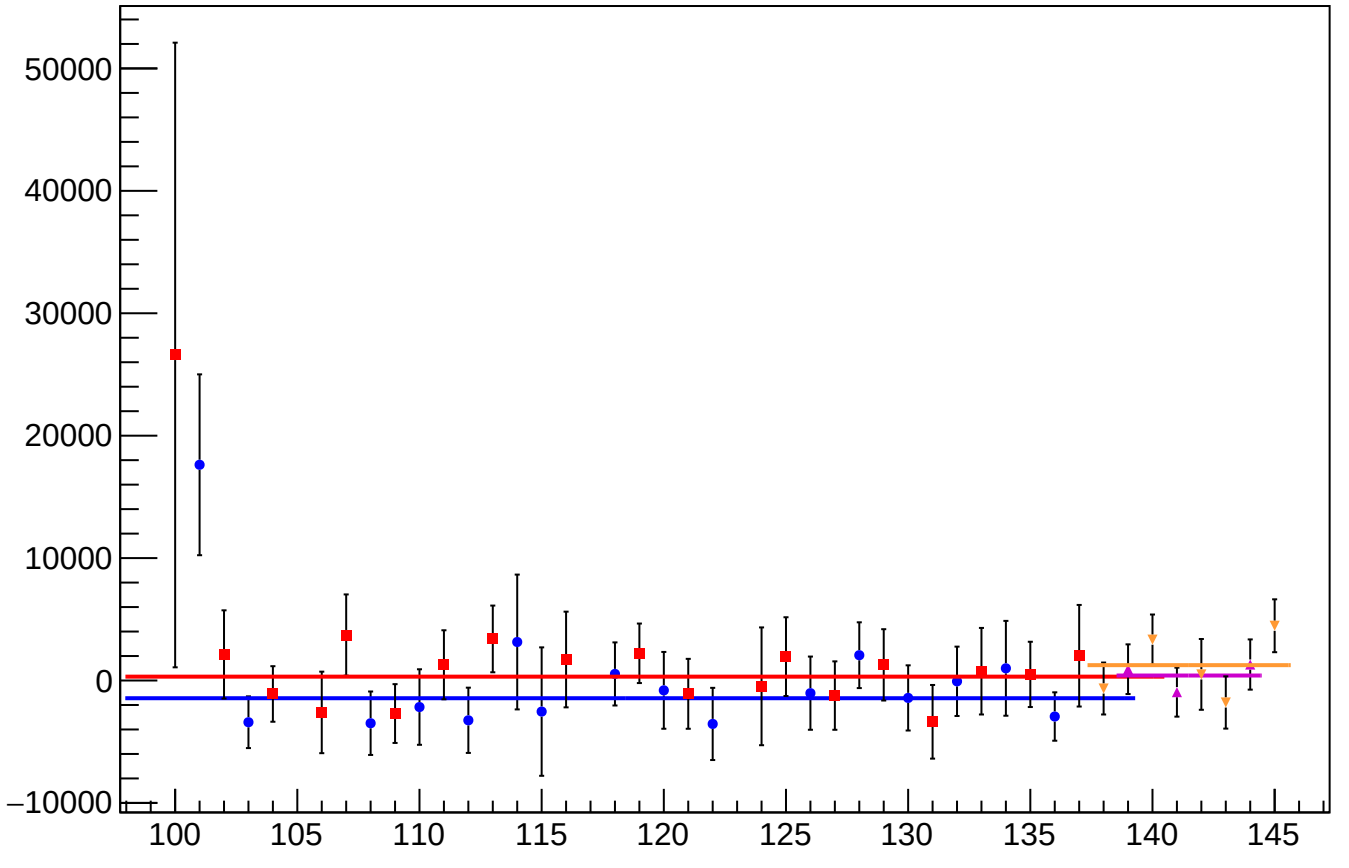
Left: 3468.721+/-0.985 $\chi^2$/NDF: 103817.6/7

Right: 3734.912+/-0.719 $\chi^2$/NDF: 2098525.6/34

In: 3758.539+/-0.872 $\chi^2$/NDF:1034869.9/18

Out: 3549.941+/-0.778 $\chi^2$/NDF:1183280.6/23

All: 3642.407+/-0.581 $\chi^2$/NDF: 2250006.1/42




Right In: -1446.933+/-723.140 $\chi^2$/NDF: 13.5/15

Left Out: 1254.204+/-993.699 $\chi^2$/NDF:6.2/4

Right Out: 315.462+/-703.596 $\chi^2$/NDF: 9.9/18

Left In: 407.307+/-1170.396 $\chi^2$/NDF:0.7/2

Left: 899.446+/-757.502 $\chi^2$/NDF: 7.2/7

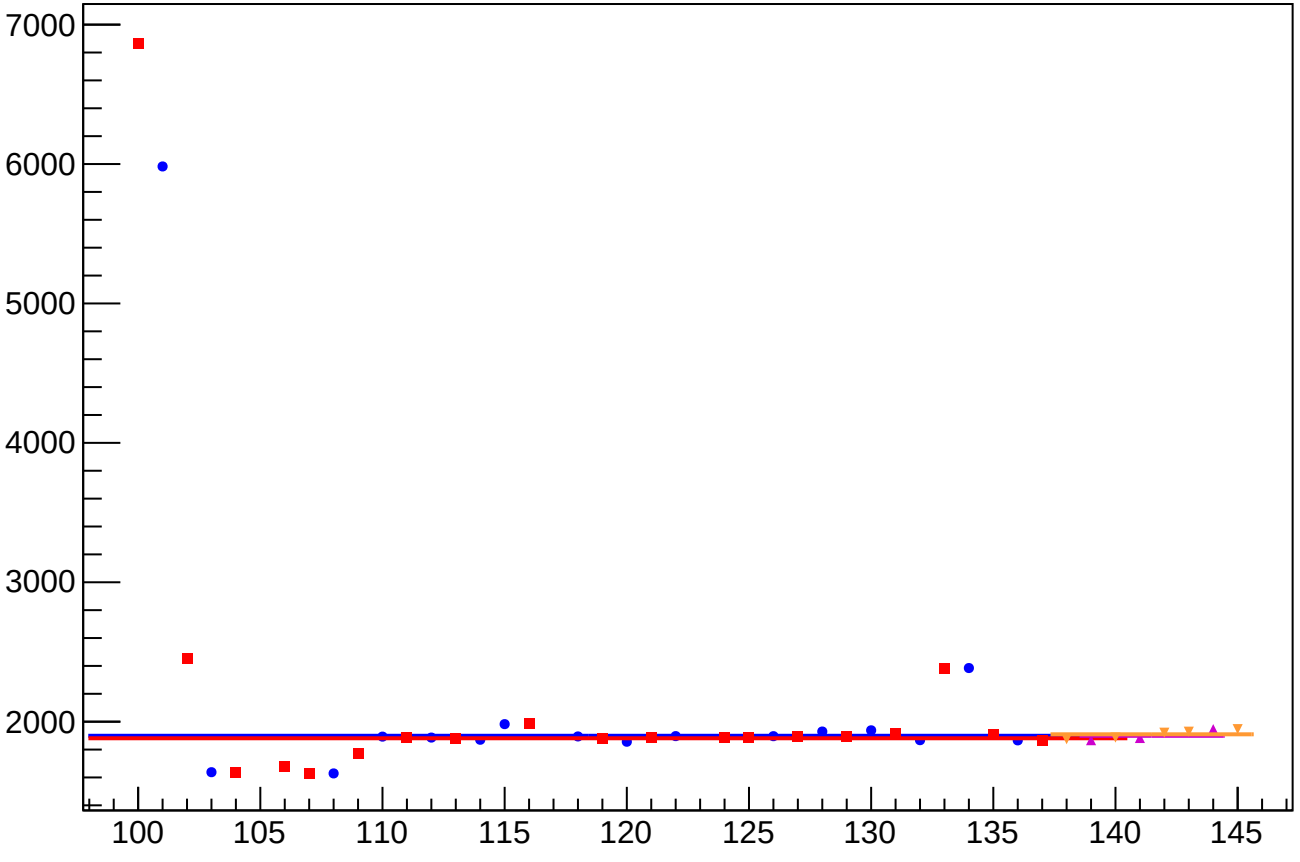
Right: -541.597+/-504.285 $\chi^2$/NDF: 26.4/34

In: -934.643+/-615.188 $\chi^2$/NDF:16.0/18

Out: 628.937+/-574.226 $\chi^2$/NDF:16.6/23

All: -99.069+/-419.774 $\chi^2$/NDF: 36.1/42

# eigen_cor_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1898.826+/-0.511 $\chi^2$/NDF: 697514.4/15

Left Out: 1909.449+/-0.703 $\chi^2$/NDF:1583.2/4

Right Out: 1881.007+/-0.497 $\chi^2$/NDF: 216564.4/18

Left In: 1898.531+/-0.828 $\chi^2$/NDF:1694.1/2

Left: 1904.876+/-0.536 $\chi^2$/NDF: 3378.4/7

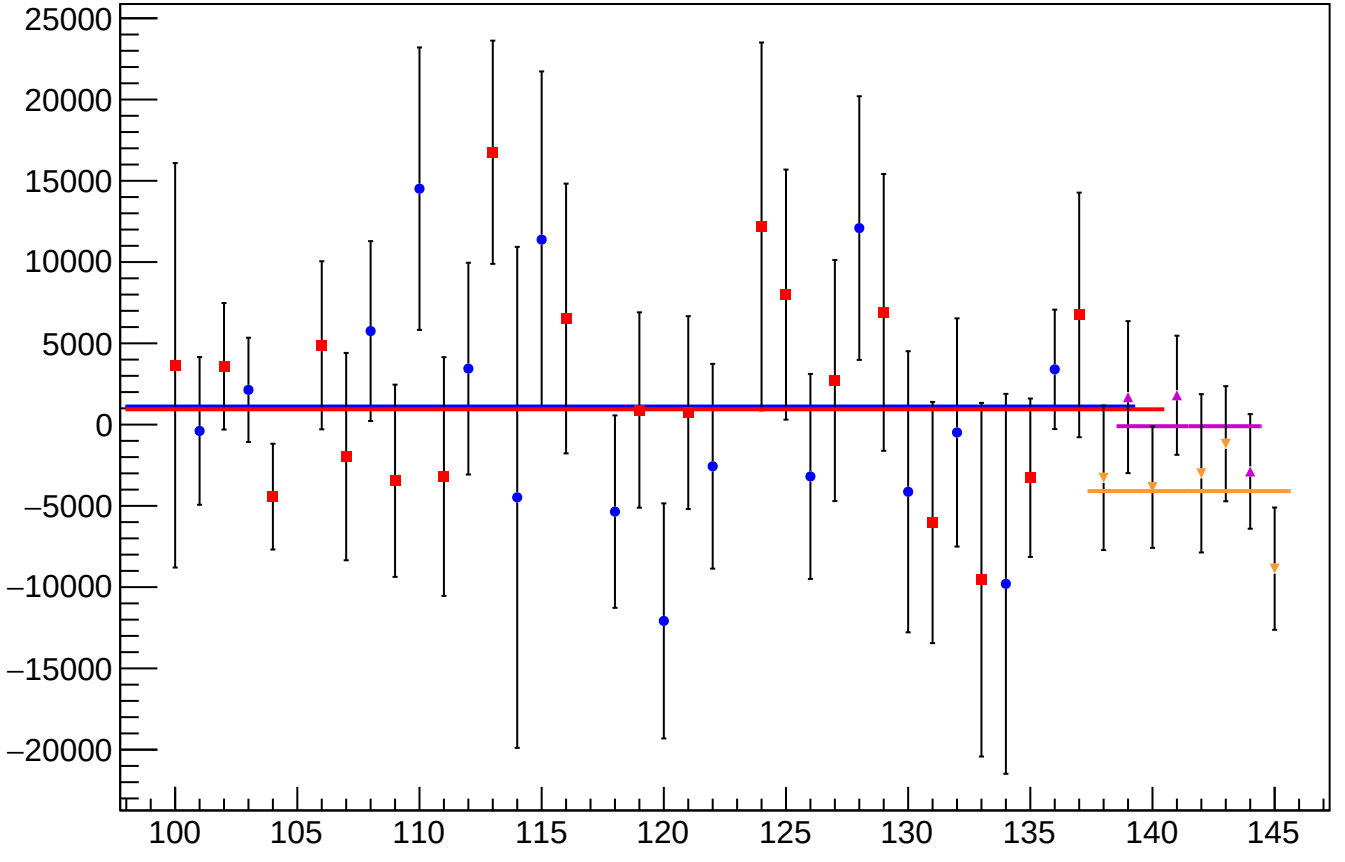
Right: 1889.658+/-0.356 $\chi^2$/NDF: 914703.5/34

In: 1898.744+/-0.435 $\chi^2$/NDF:699208.6/18

Out: 1890.485+/-0.406 $\chi^2$/NDF:219240.1/23

All: 1894.326+/-0.297 $\chi^2$/NDF: 918641.5/42

asym_atr_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 1111.533+/-1479.438 $\chi^2$/NDF: 13.4/15

Left Out: -4090.209+/-1782.185 $\chi^2$/NDF:2.4/4

Right Out: 940.712+/-1398.993 $\chi^2$/NDF: 16.2/18

Left In: -99.457+/-2232.639 $\chi^2$/NDF:1.0/2

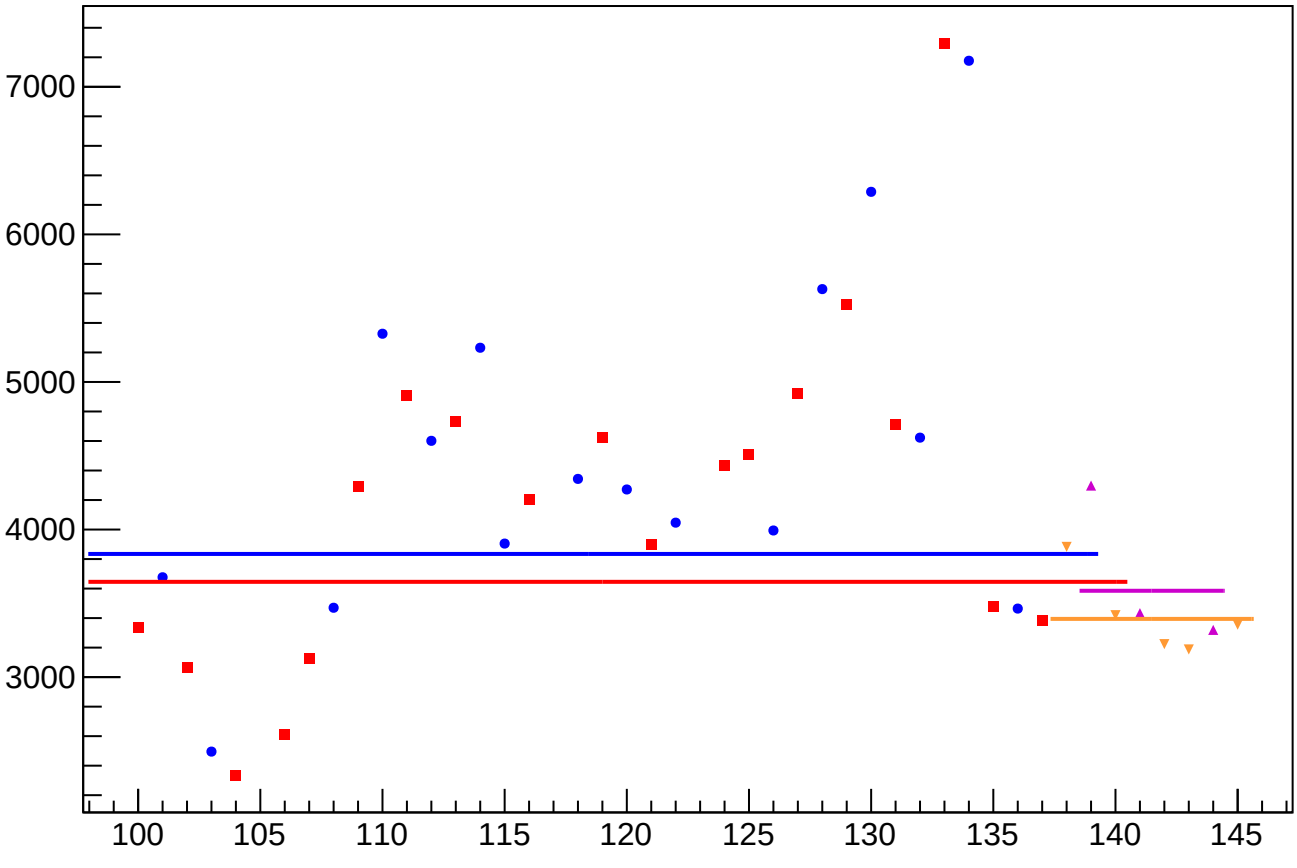
Left: -2537.020+/-1392.846 $\chi^2$/NDF: 5.4/7

Right: 1021.352+/-1016.487 $\chi^2$/NDF: 29.6/34

In: 742.038+/-1233.253 $\chi^2$/NDF:14.6/18

Out: -977.411+/-1100.442 $\chi^2$/NDF:23.5/23

All: -215.225+/-821.085 $\chi^2$/NDF: 39.2/42




Right In: 3834.690+/-1.046 $\chi^2$/NDF: 956312.2/15

Left Out: 3394.558+/-1.260 $\chi^2$/NDF:33727.9/4

Right Out: 3645.689+/-0.989 $\chi^2$/NDF: 1124981.4/18

Left In: 3585.112+/-1.579 $\chi^2$/NDF:61191.0/2

Left: 3468.721+/-0.985 $\chi^2$/NDF: 103817.6/7

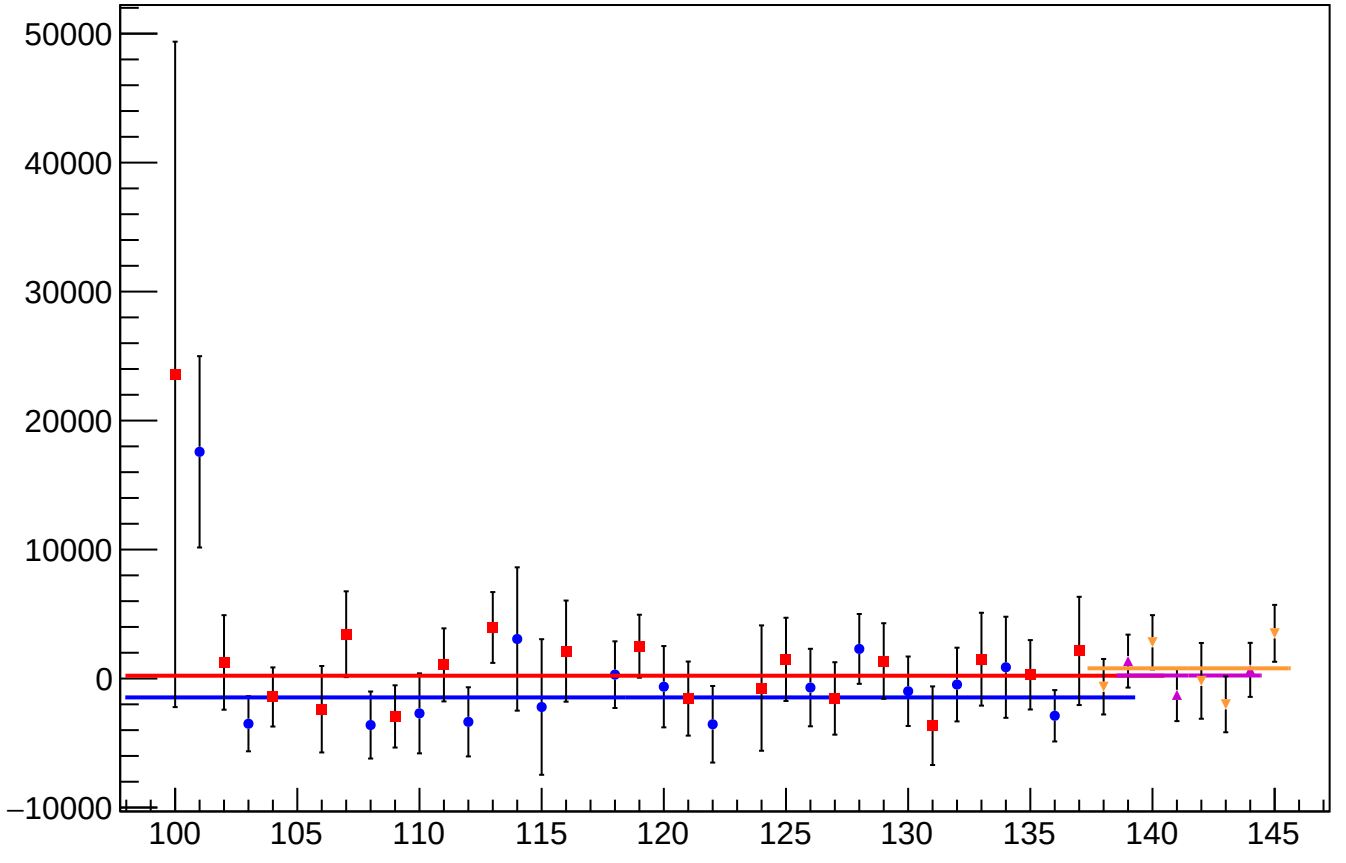
Right: 3734.912+/-0.719 $\chi^2$/NDF: 2098525.6/34

In: 3758.539+/-0.872 $\chi^2$/NDF:1034869.9/18

Out: 3549.941+/-0.778 $\chi^2$/NDF:1183280.6/23

All: 3642.407+/-0.581 $\chi^2$/NDF: 2250006.1/42

# dit_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1462.640+/-728.274 $\chi^2$/NDF: 13.6/15

Left Out: 792.285+/-1012.066 $\chi^2$/NDF:4.6/4

Right Out: 219.726+/-708.852 $\chi^2$/NDF: 10.8/18

Left In: 236.867+/-1189.259 $\chi^2$/NDF:0.9/2

Left: 558.996+/-770.750 $\chi^2$/NDF: 5.7/7

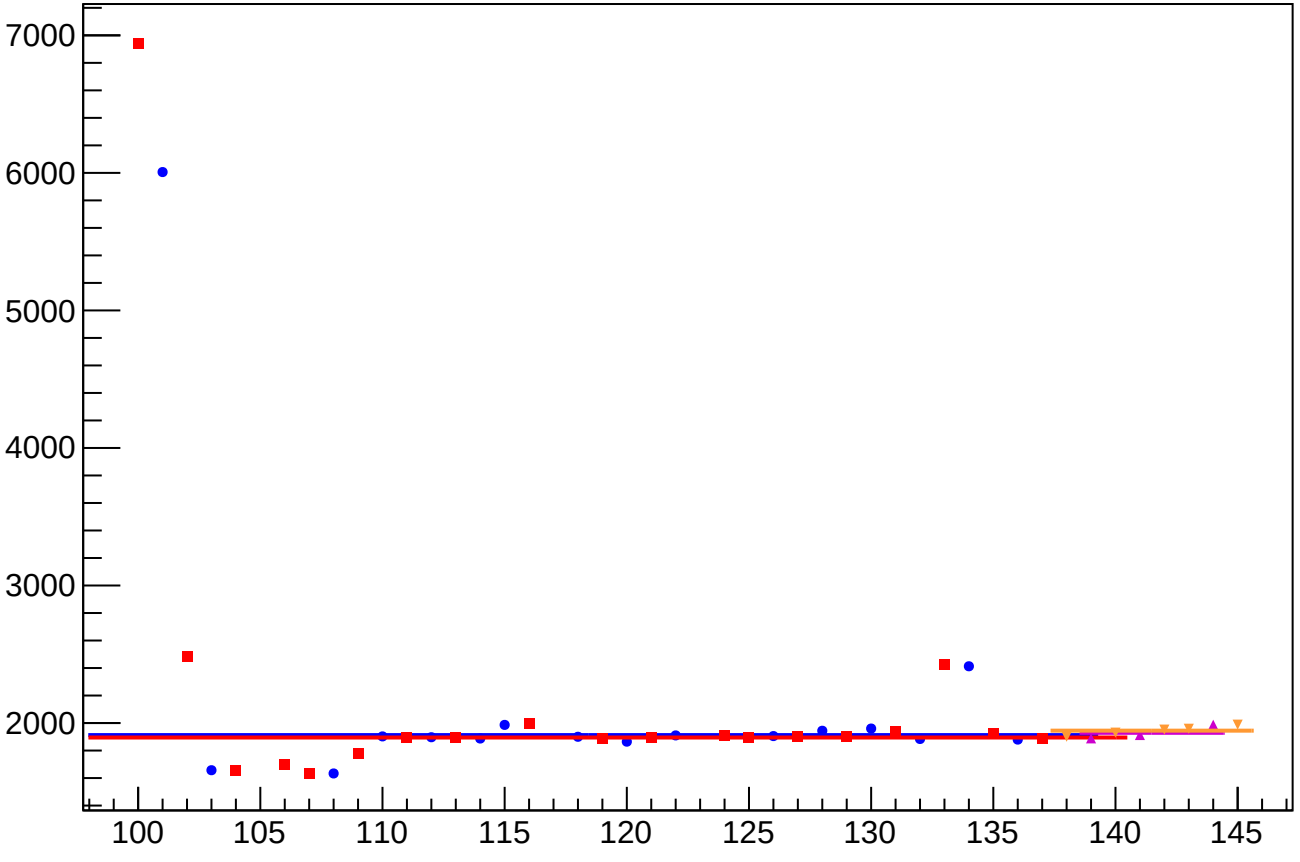
Right: -598.725+/-507.962 $\chi^2$/NDF: 27.1/34

In: -999.134+/-621.073 $\chi^2$/NDF:15.9/18

Out: 408.162+/-580.605 $\chi^2$/NDF:15.7/23

All: -248.147+/-424.135 $\chi^2$/NDF: 34.3/42

# dit_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1912.378+/-0.515 $\chi^2$/NDF: 696220.3/15

Left Out: 1944.620+/-0.716 $\chi^2$/NDF:1808.1/4

Right Out: 1894.765+/-0.501 $\chi^2$/NDF: 219781.5/18

Left In: 1928.955+/-0.841 $\chi^2$/NDF:2471.6/2

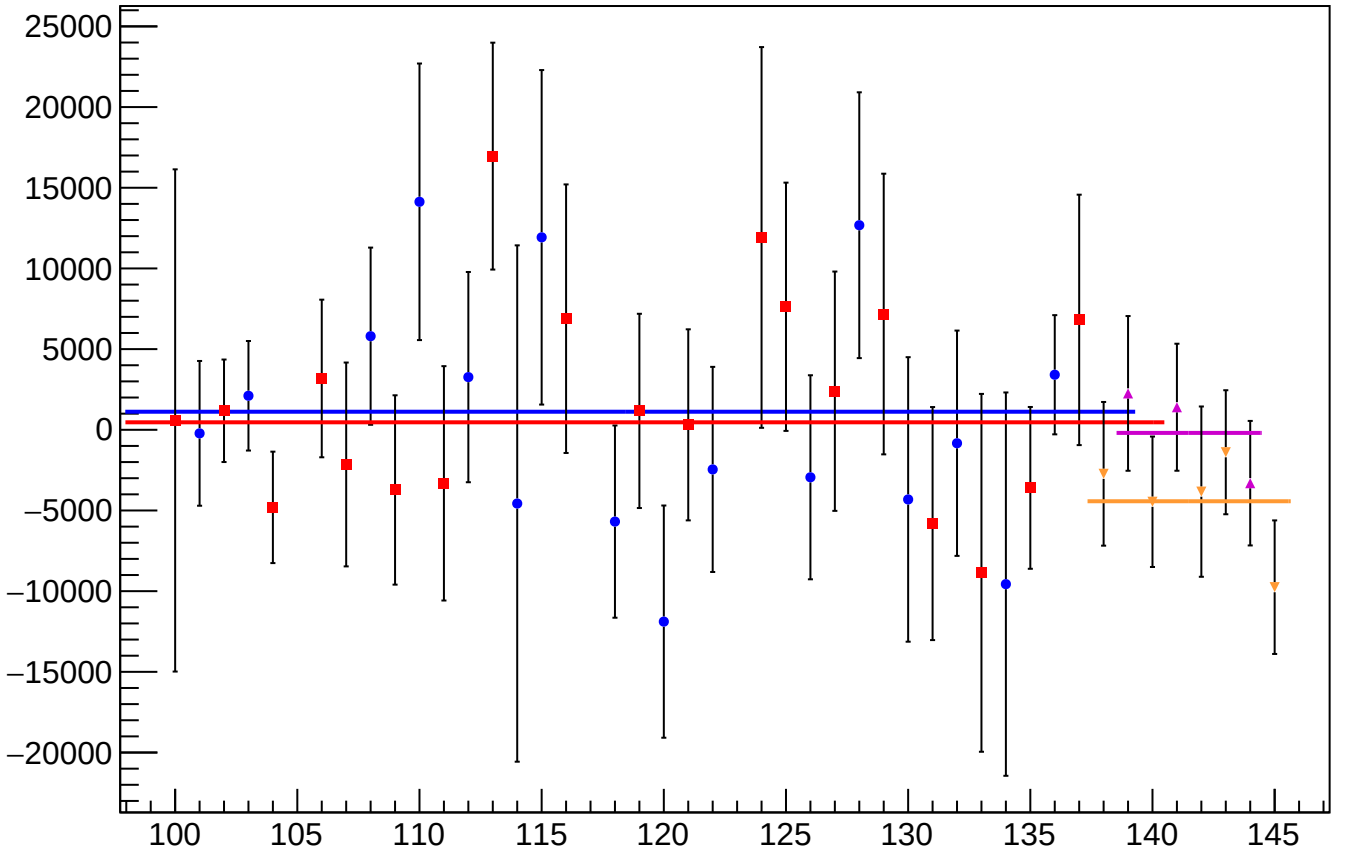
Left: 1938.040+/-0.545 $\chi^2$/NDF: 4481.0/7

Right: 1903.324+/-0.359 $\chi^2$/NDF: 916603.1/34

In: 1916.899+/-0.439 $\chi^2$/NDF:698974.4/18

Out: 1911.150+/-0.410 $\chi^2$/NDF:224847.9/23

All: 1913.829+/-0.300 $\chi^2$/NDF: 923913.9/42




Right In: 1120.173+/-1497.671 $\chi^2$/NDF: 13.5/15

Left Out: -4428.063+/-1911.630 $\chi^2$/NDF:2.4/4

Right Out: 464.368+/-1370.818 $\chi^2$/NDF: 15.0/18

Left In: -192.523+/-2388.888 $\chi^2$/NDF:1.1/2

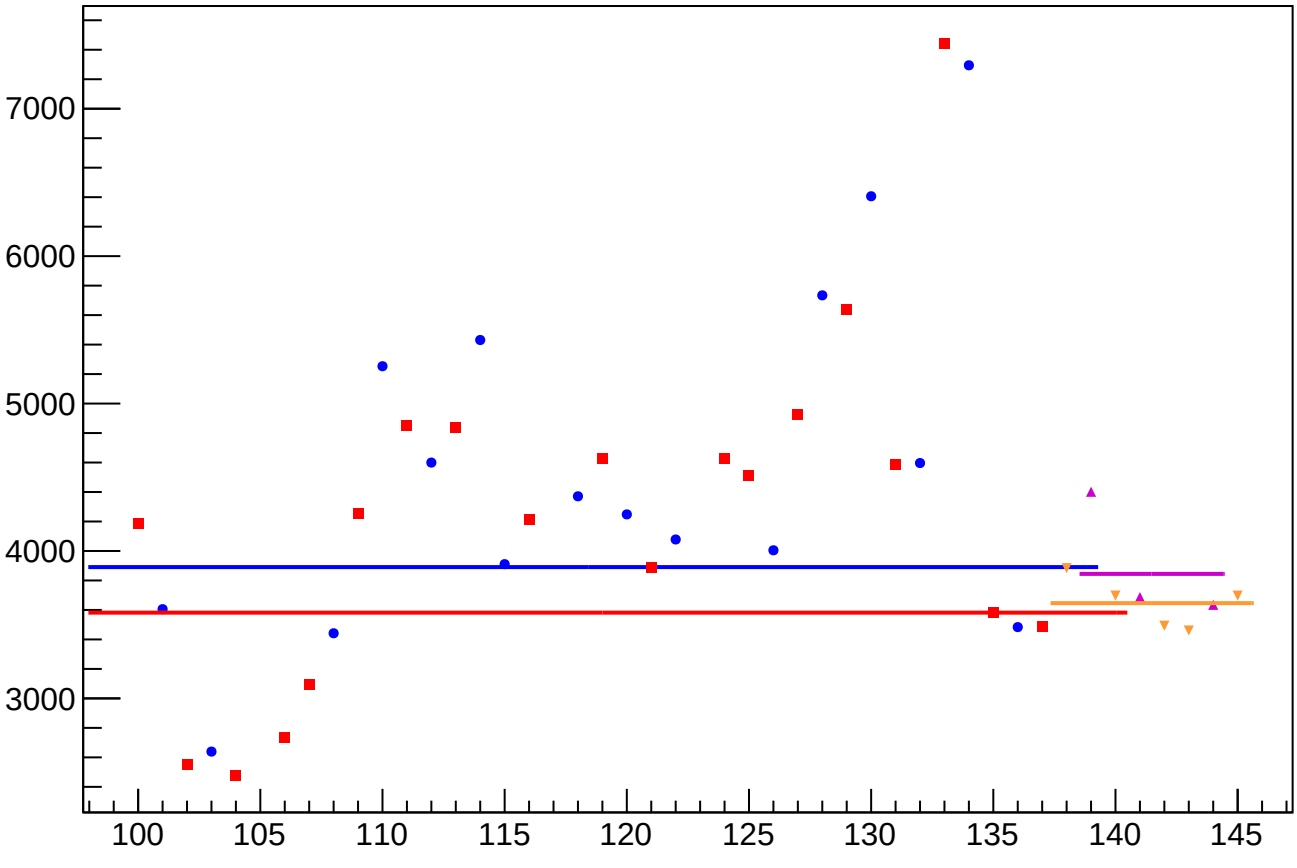
Left: -2774.621+/-1492.574 $\chi^2$/NDF: 5.4/7

Right: 763.326+/-1011.192 $\chi^2$/NDF: 28.6/34

In: 749.799+/-1268.919 $\chi^2$/NDF:14.7/18

Out: -1197.080+/-1113.999 $\chi^2$/NDF:21.8/23

All: -349.680+/-837.161 $\chi^2$/NDF: 37.9/42




Right In: 3890.708+/-1.059 $\chi^2$/NDF: 878418.2/15

Left Out: 3646.280+/-1.352 $\chi^2$/NDF:12664.1/4

Right Out: 3581.780+/-0.969 $\chi^2$/NDF: 1221855.2/18

Left In: 3844.640+/-1.689 $\chi^2$/NDF:36112.9/2

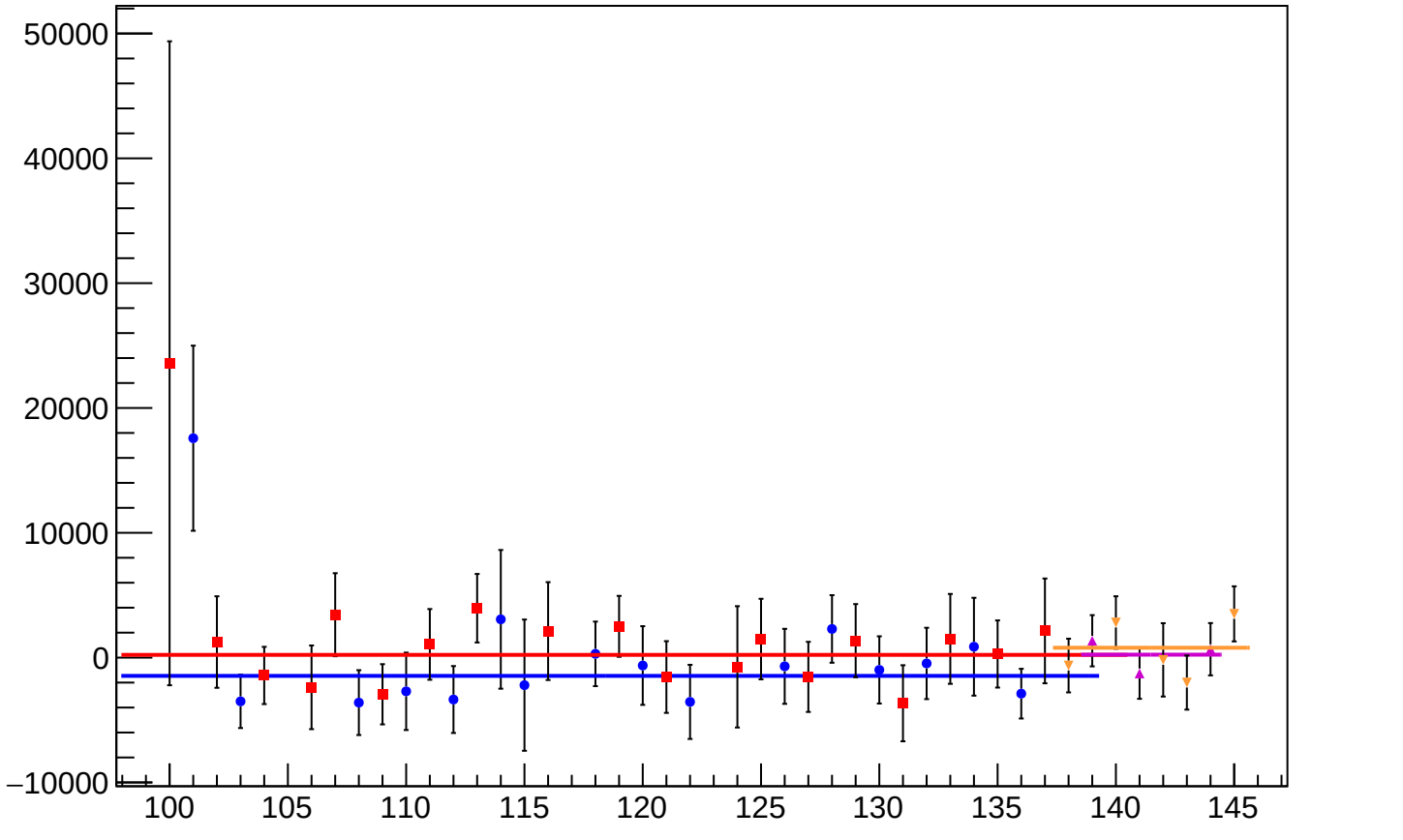
Left: 3723.715+/-1.055 $\chi^2$/NDF: 57183.4/7

Right: 3722.609+/-0.715 $\chi^2$/NDF: 2146577.5/34

In: 3877.710+/-0.897 $\chi^2$/NDF:915065.0/18

Out: 3603.684+/-0.788 $\chi^2$/NDF:1236023.0/23

All: 3722.957+/-0.592 $\chi^2$/NDF: 2203761.6/42




Right In: -1462.646+/-728.274 $\chi^2$/NDF: 13.6/15

Left Out: 792.281+/-1012.066 $\chi^2$/NDF:4.6/4

Right Out: 219.720+/-708.852 $\chi^2$/NDF: 10.8/18

Left In: 236.876+/-1189.259 $\chi^2$/NDF:0.9/2

Left: 558.998+/-770.750 $\chi^2$/NDF: 5.7/7

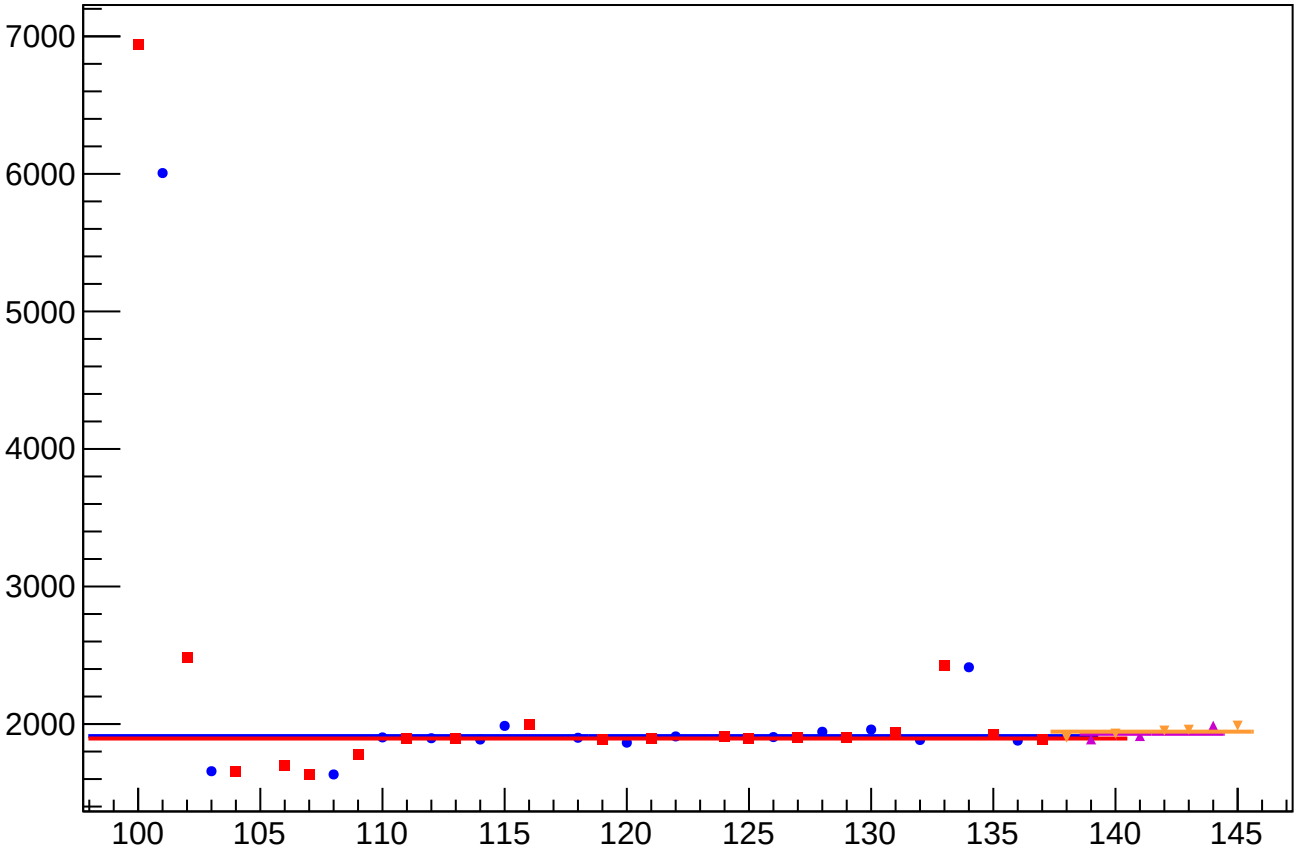
Right: -598.730+/-507.962 $\chi^2$/NDF: 27.1/34

In: -999.135+/-621.073 $\chi^2$/NDF:15.9/18

Out: 408.157+/-580.605 $\chi^2$/NDF:15.7/23

All: -248.150+/-424.135 $\chi^2$/NDF: 34.3/42

# eigen_dit_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1912.378+/-0.515 $\chi^2$/NDF: 696220.1/15

Left Out: 1944.621+/-0.716 $\chi^2$/NDF:1808.2/4

Right Out: 1894.765+/-0.501 $\chi^2$/NDF: 219781.5/18

Left In: 1928.955+/-0.841 $\chi^2$/NDF:2471.6/2

Left: 1938.041+/-0.545 $\chi^2$/NDF: 4481.0/7

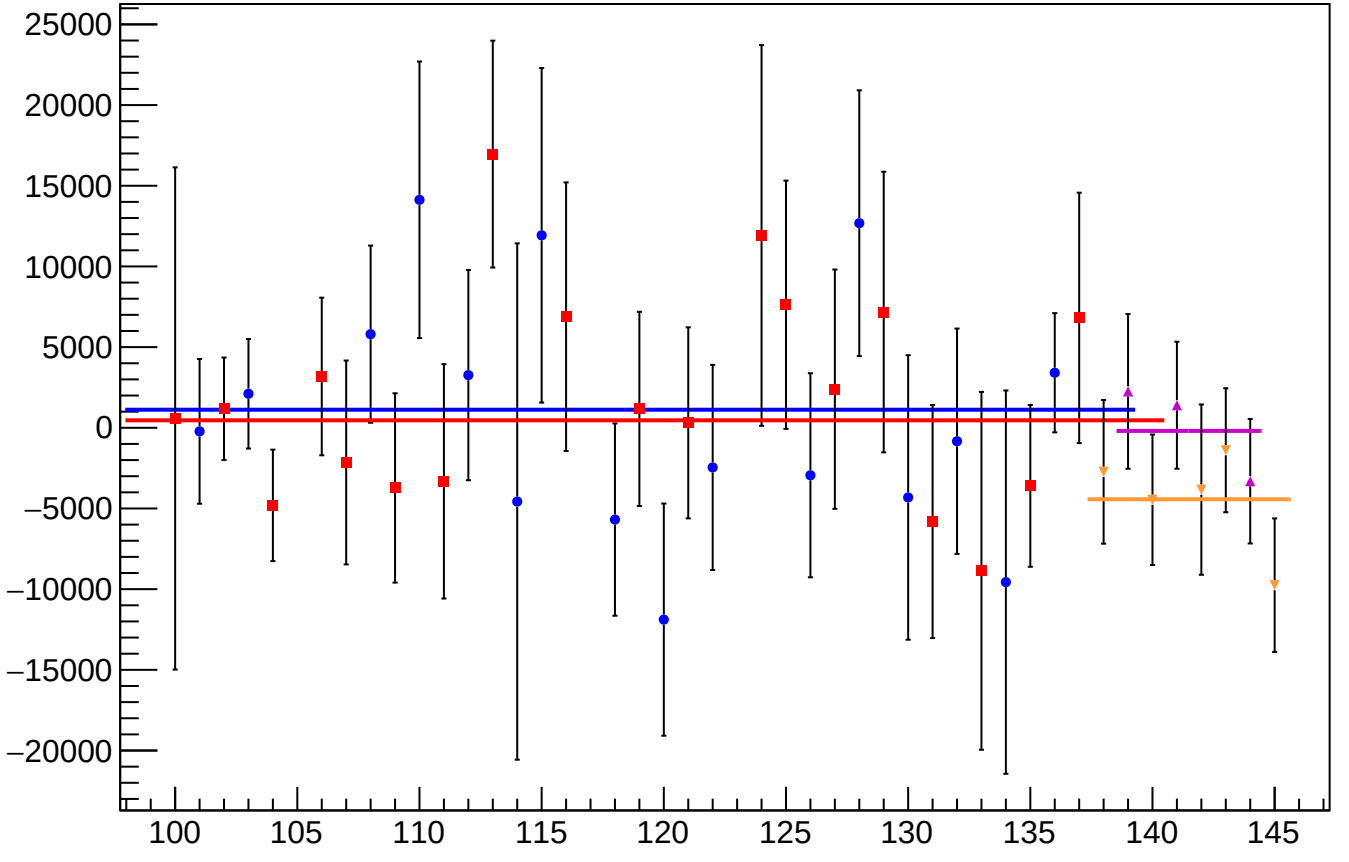
Right: 1903.324+/-0.359 $\chi^2$/NDF: 916602.9/34

In: 1916.899+/-0.439 $\chi^2$/NDF:698974.3/18

Out: 1911.150+/-0.410 $\chi^2$/NDF:224848.0/23

All: 1913.829+/-0.300 $\chi^2$/NDF: 923913.9/42

asym_atr_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 1120.159+/-1497.669 $\chi^2$/NDF: 13.5/15

Left Out: -4428.069+/-1911.632 $\chi^2$/NDF:2.4/4

Right Out: 464.367+/-1370.817 $\chi^2$/NDF: 15.0/18

Left In: -192.514+/-2388.890 $\chi^2$/NDF:1.1/2

Left: -2774.621+/-1492.575 $\chi^2$/NDF: 5.4/7

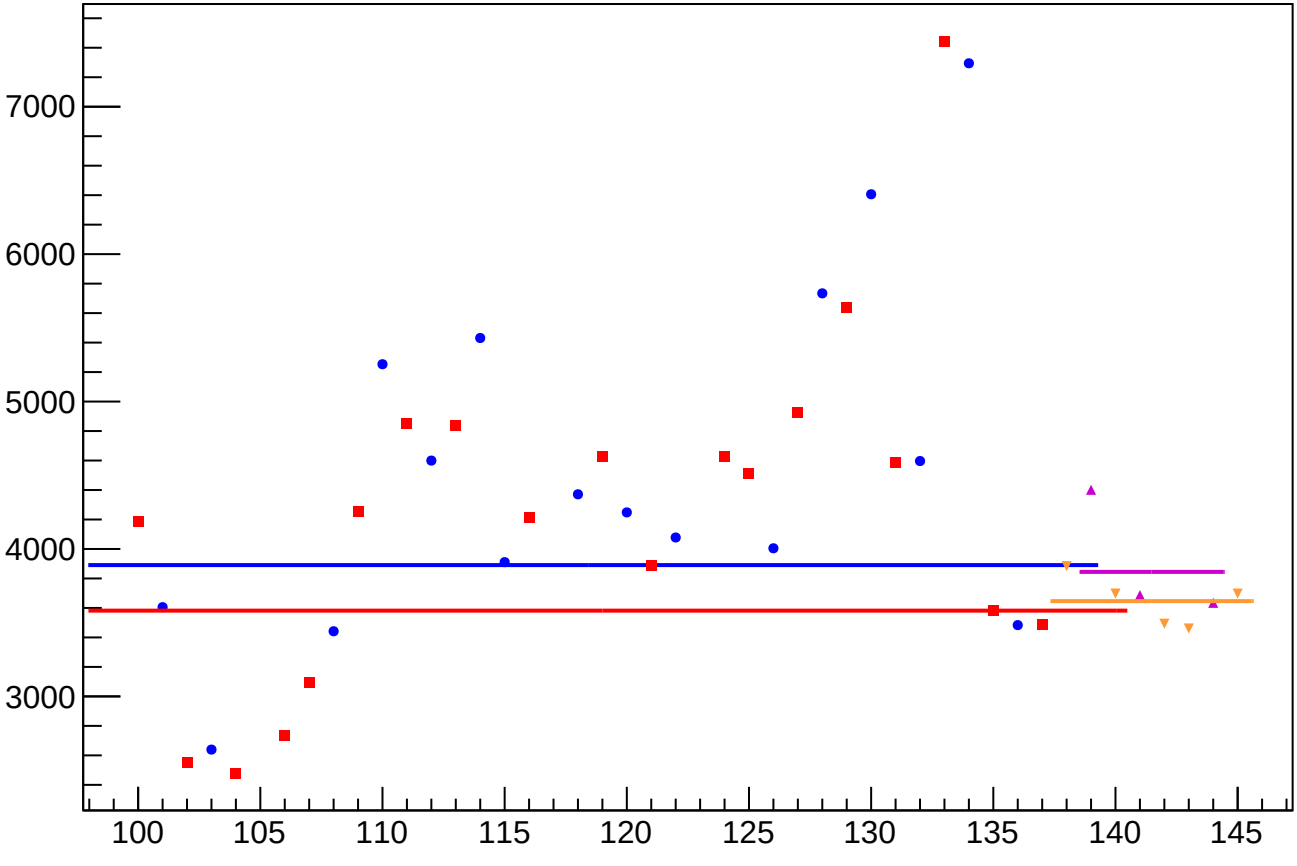
Right: 763.319+/-1011.191 $\chi^2$/NDF: 28.6/34

In: 749.793+/-1268.918 $\chi^2$/NDF:14.7/18

Out: -1197.077+/-1113.999 $\chi^2$/NDF:21.8/23

All: -349.680+/-837.160 $\chi^2$/NDF: 37.9/42

asym_atr_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3890.705+/-1.059 $\chi^2$/NDF: 878409.2/15

Left Out: 3646.285+/-1.352 $\chi^2$/NDF:12664.1/4

Right Out: 3581.777+/-0.969 $\chi^2$/NDF: 1221846.6/18

Left In: 3844.643+/-1.689 $\chi^2$/NDF:36113.8/2

Left: 3723.719+/-1.055 $\chi^2$/NDF: 57184.1/7

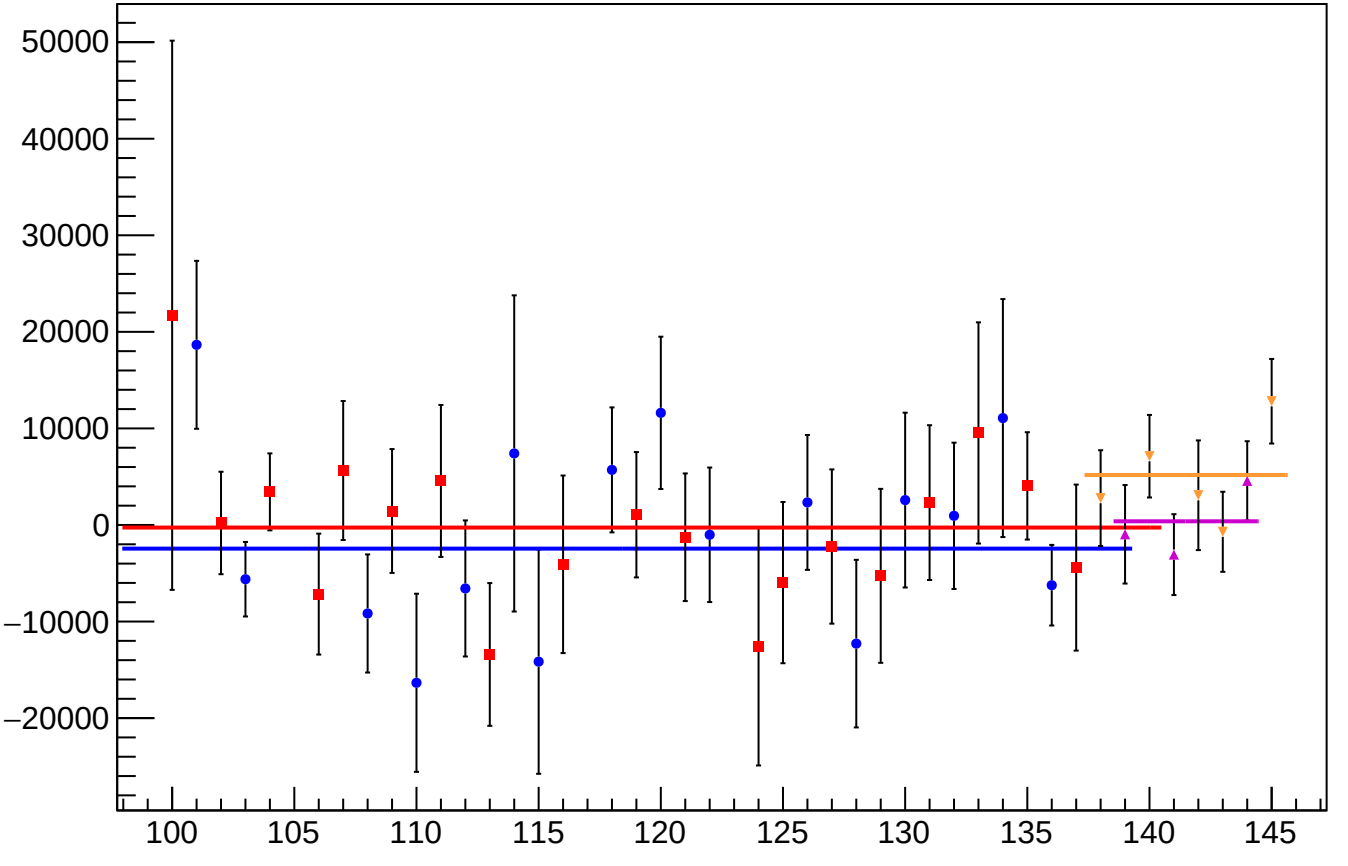
Right: 3722.606+/-0.715 $\chi^2$/NDF: 2146560.1/34

In: 3877.709+/-0.897 $\chi^2$/NDF:915056.8/18

Out: 3603.684+/-0.788 $\chi^2$/NDF:1236014.7/23

All: 3722.956+/-0.592 $\chi^2$/NDF: 2203744.9/42

# asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -2448.262+/-1719.694 $\chi^2$/NDF: 20.9/15

Left Out: 5176.282+/-2055.475 $\chi^2$/NDF:5.6/4

Right Out: -265.886+/-1622.574 $\chi^2$/NDF: 10.7/18

Left In: 381.530+/-2541.834 $\chi^2$/NDF:1.8/2

Left: 3280.539+/-1598.284 $\chi^2$/NDF: 9.6/7

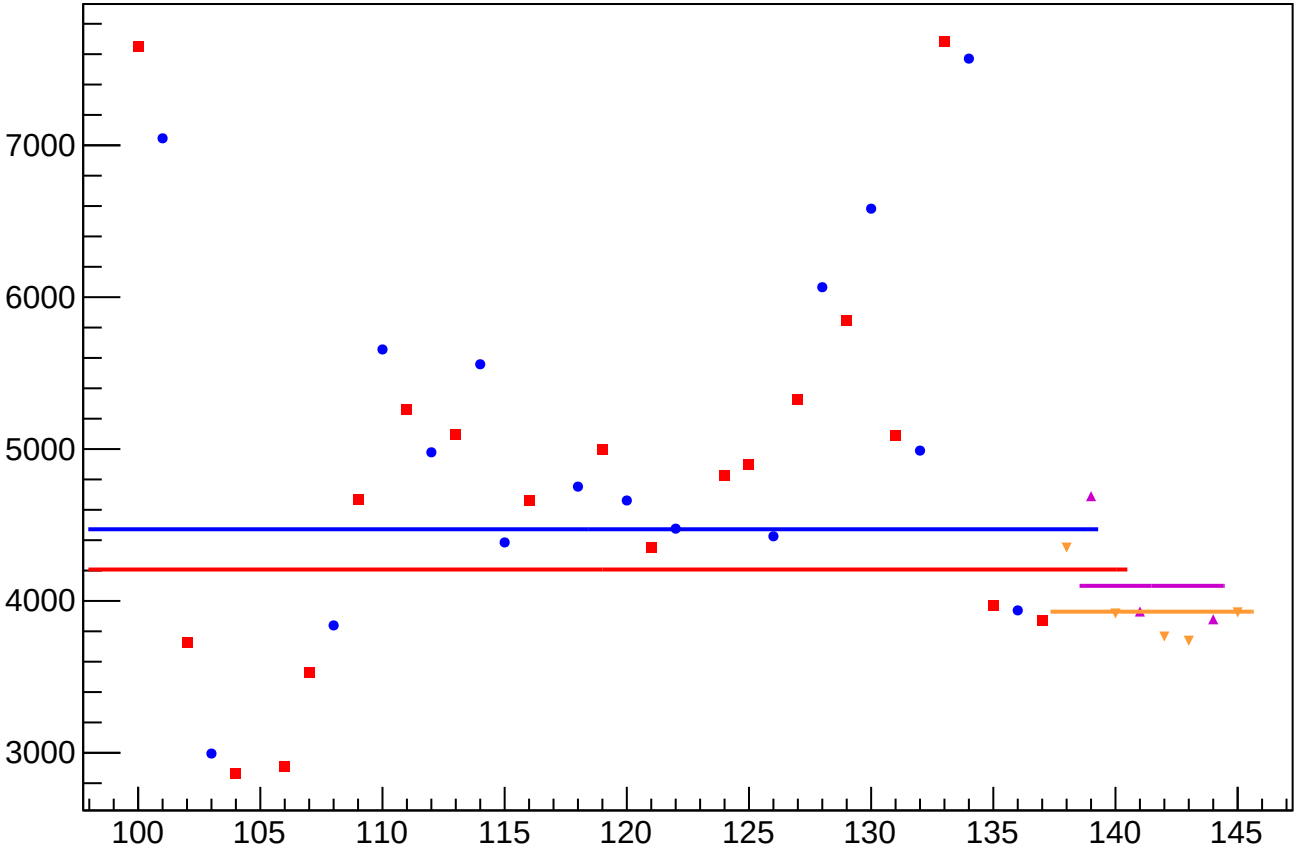
Right: -1293.712+/-1180.174 $\chi^2$/NDF: 32.4/34

In: -1559.704+/-1424.337 $\chi^2$/NDF:23.5/18

Out: 1823.416+/-1273.581 $\chi^2$/NDF:20.7/23

All: 320.311+/-949.399 $\chi^2$/NDF: 47.3/42

# asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 4471.904+/-1.216 $\chi^2$/NDF: 891678.4/15

Left Out: 3929.402+/-1.453 $\chi^2$/NDF:20401.5/4

Right Out: 4206.907+/-1.138 $\chi^2$/NDF: 846525.2/18

Left In: 4099.436+/-1.797 $\chi^2$/NDF:35793.7/2

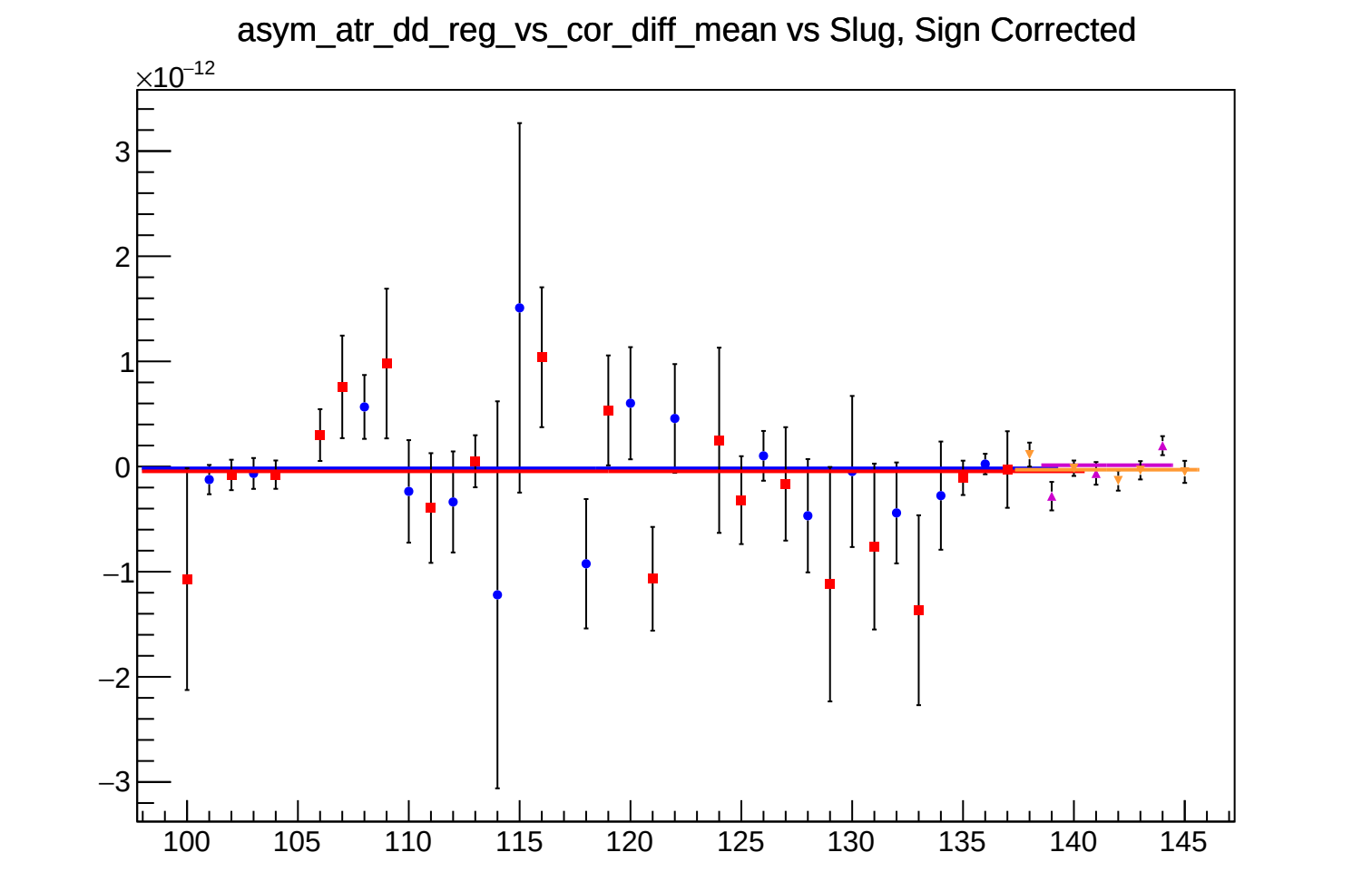
Left: 3996.630+/-1.130 $\chi^2$/NDF: 61606.3/7

Right: 4330.631+/-0.831 $\chi^2$/NDF: 1763521.7/34

In: 4354.949+/-1.007 $\chi^2$/NDF:956932.4/18

Out: 4101.443+/-0.896 $\chi^2$/NDF:889526.7/23

All: 4213.441+/-0.669 $\chi^2$/NDF: 1881823.9/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.8/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:9.5/2

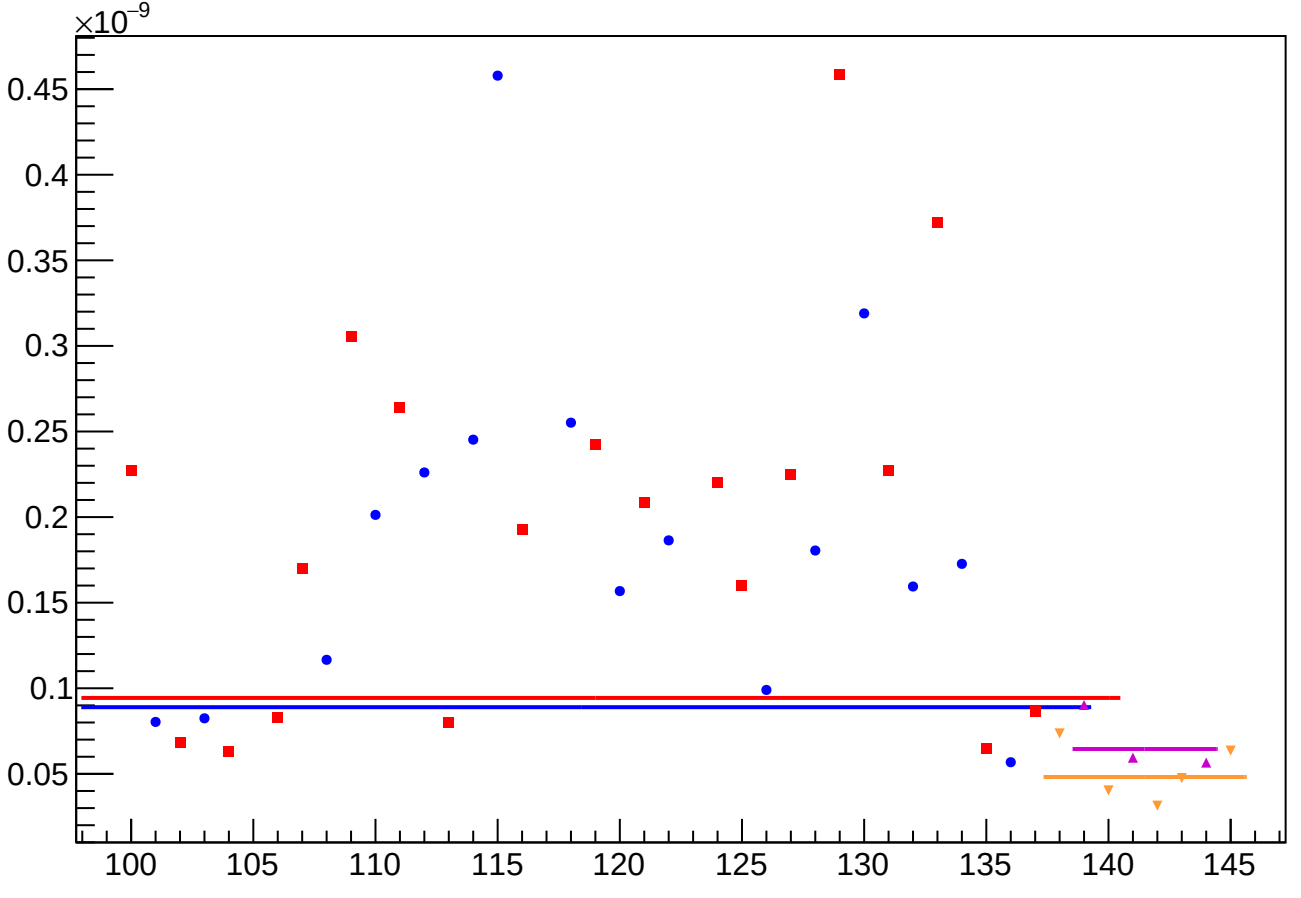
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.6/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:24.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 46.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1230222.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:226091.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1695078.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:91968.4/2

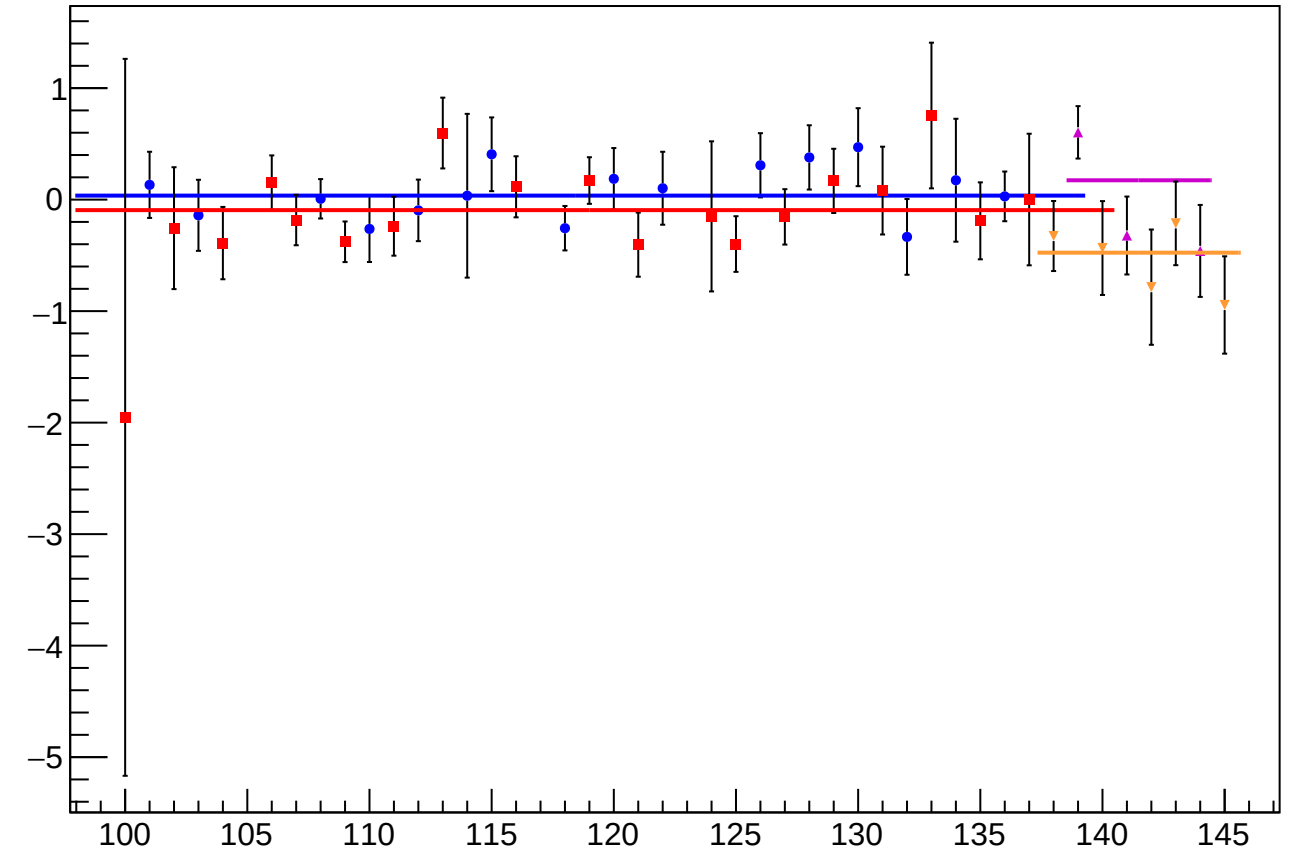
Left: 0.000+/-0.000 $\chi^2$/NDF: 415412.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 2932262.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:1479800.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2596214.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4245683.8/42




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.476+/-0.177 $\chi^2$/NDF:2.2/4

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.173+/-0.176 $\chi^2$/NDF:7.7/2

Left: -0.150+/-0.125 $\chi^2$/NDF: 16.7/7

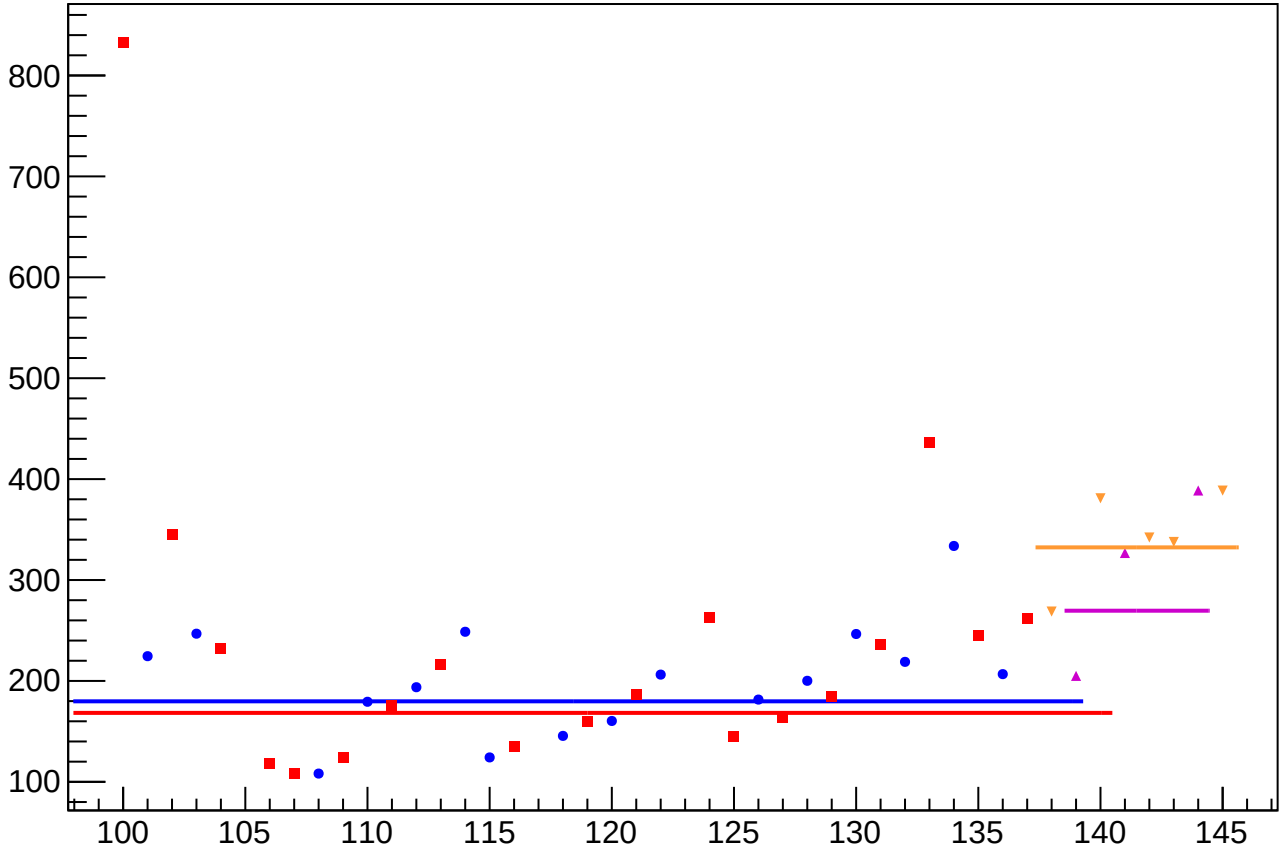
Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.055+/-0.066 $\chi^2$/NDF:18.8/18

Out: -0.143+/-0.063 $\chi^2$/NDF:23.9/23

All: -0.048+/-0.045 $\chi^2$/NDF: 47.4/42

# asym_atr_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 179.796+/-0.050 $\chi^2$/NDF: 918536.0/15

Left Out: 332.358+/-0.125 $\chi^2$/NDF:143135.3/4

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409290.2/18

Left In: 269.595+/-0.125 $\chi^2$/NDF:371406.3/2

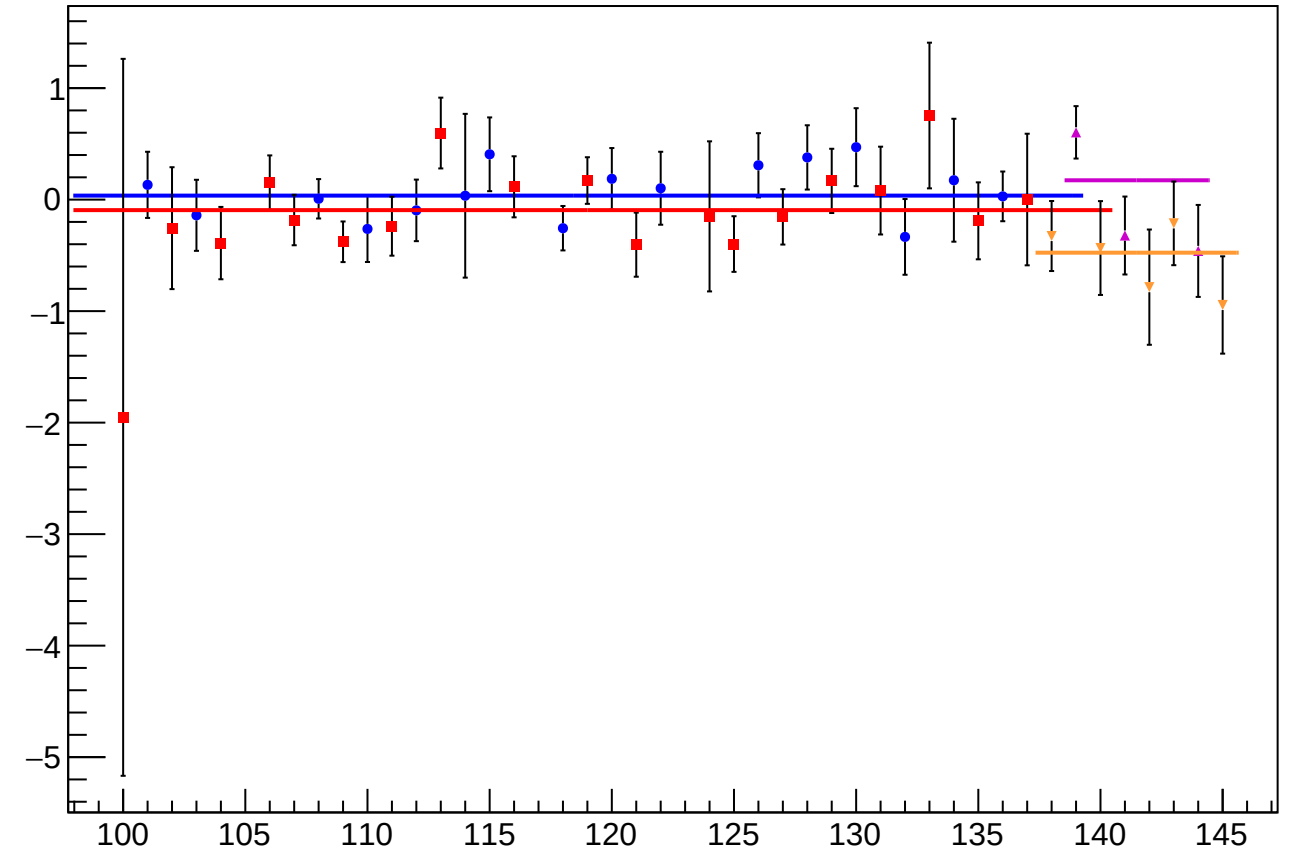
Left: 300.842+/-0.088 $\chi^2$/NDF: 640699.0/7

Right: 173.821+/-0.035 $\chi^2$/NDF: 2355323.0/34

In: 192.196+/-0.046 $\chi^2$/NDF:1737030.3/18

Out: 189.215+/-0.045 $\chi^2$/NDF:3049918.8/23

All: 190.652+/-0.032 $\chi^2$/NDF: 4789094.5/42




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.476+/-0.177 $\chi^2$/NDF:2.2/4

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.173+/-0.176 $\chi^2$/NDF:7.7/2

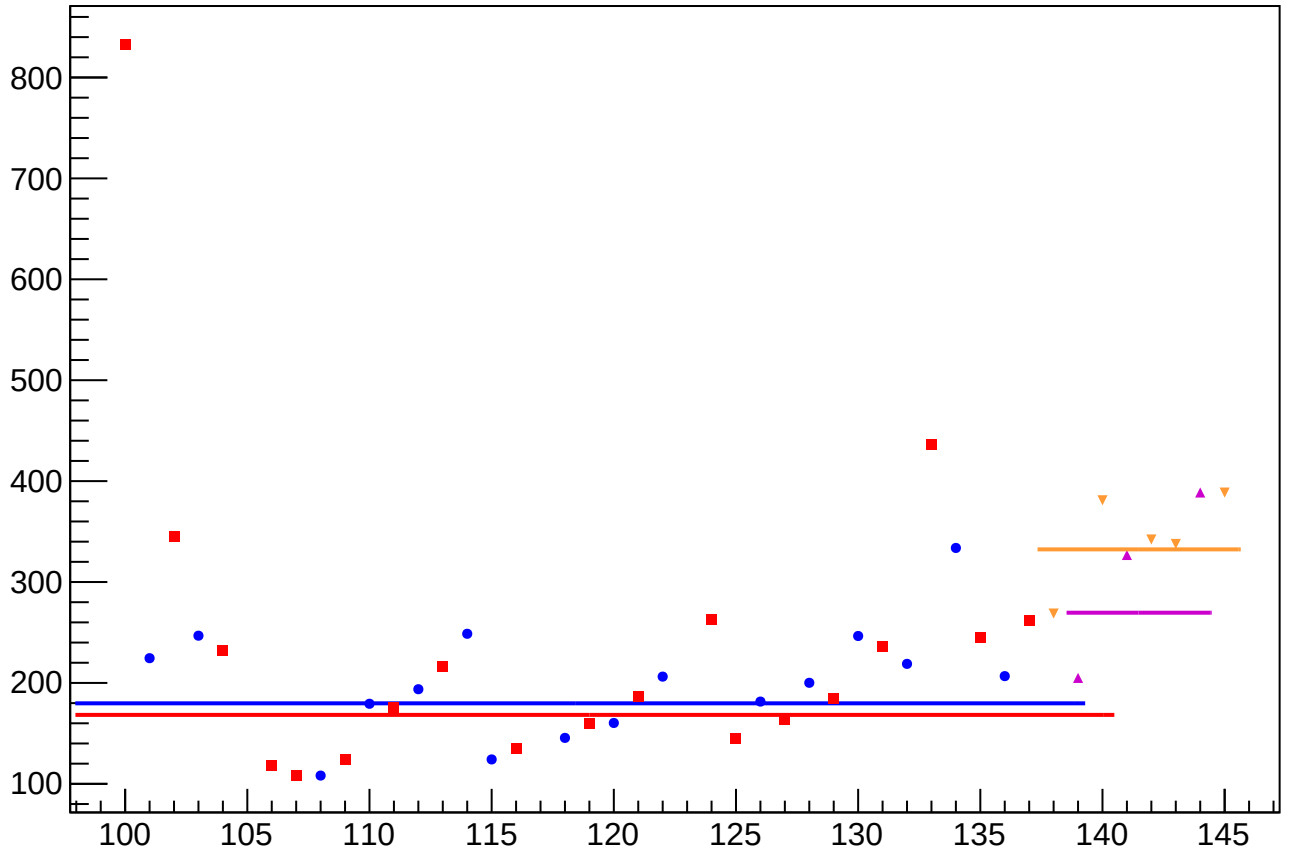
Left: -0.150+/-0.125 $\chi^2$/NDF: 16.7/7

Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.055+/-0.066 $\chi^2$/NDF:18.8/18

Out: -0.143+/-0.063 $\chi^2$/NDF:23.9/23

All: -0.048+/-0.045 $\chi^2$/NDF: 47.4/42




Right In: 179.796+/-0.050 $\chi^2$/NDF: 918536.0/15

Left Out: 332.358+/-0.125 $\chi^2$/NDF:143135.3/4

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409290.2/18

Left In: 269.595+/-0.125 $\chi^2$/NDF:371406.3/2

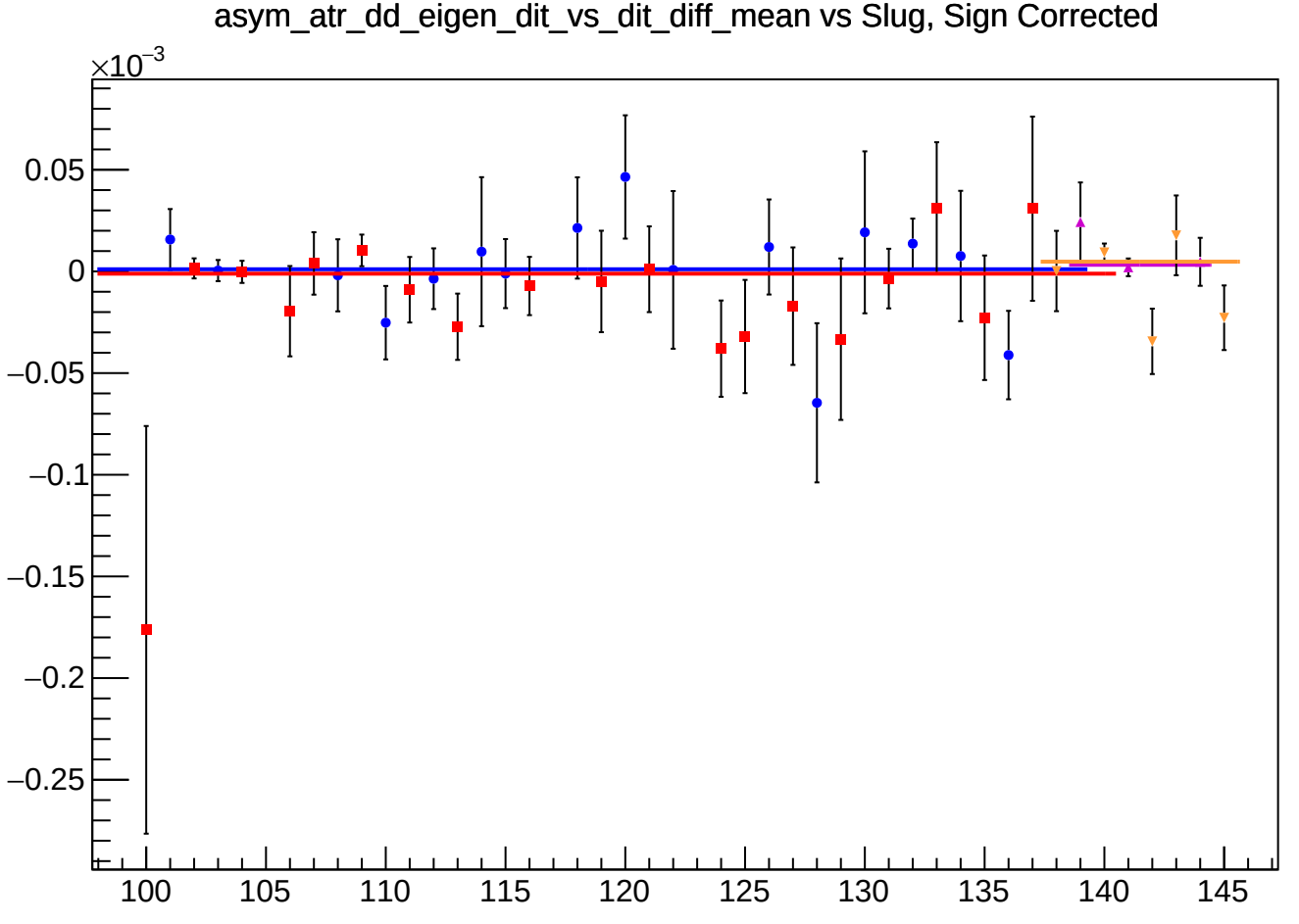
Left: 300.842+/-0.088 $\chi^2$/NDF: 640699.0/7

Right: 173.821+/-0.035 $\chi^2$/NDF: 2355323.0/34

In: 192.196+/-0.046 $\chi^2$/NDF:1737030.3/18

Out: 189.215+/-0.045 $\chi^2$/NDF:3049918.8/23

All: 190.652+/-0.032 $\chi^2$/NDF: 4789094.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.3/2

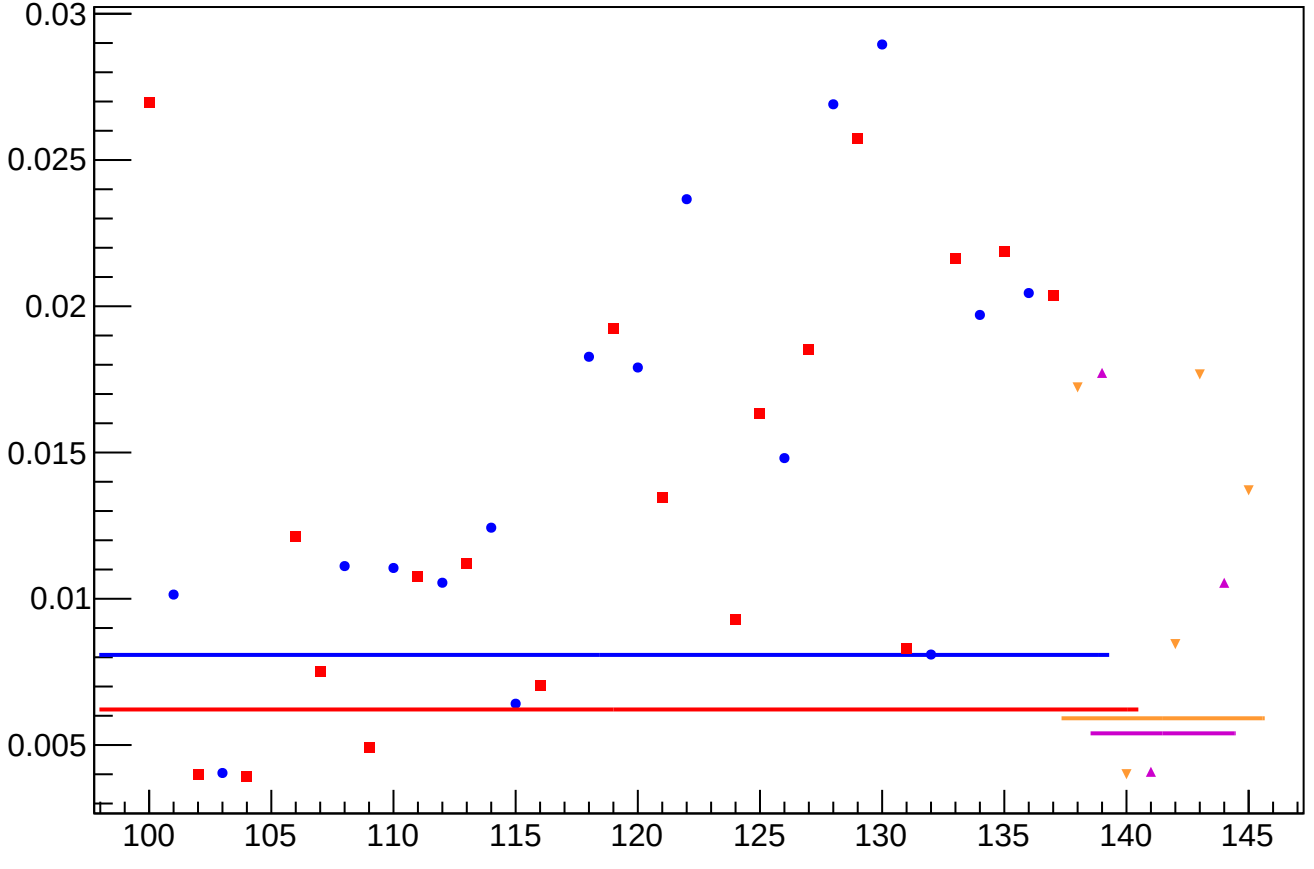
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.9/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:28.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 43.8/42




Right In: 0.008+/-0.000 $\chi^2$/NDF: 4413462.8/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:2287872.2/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 4560988.3/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:1363454.1/2

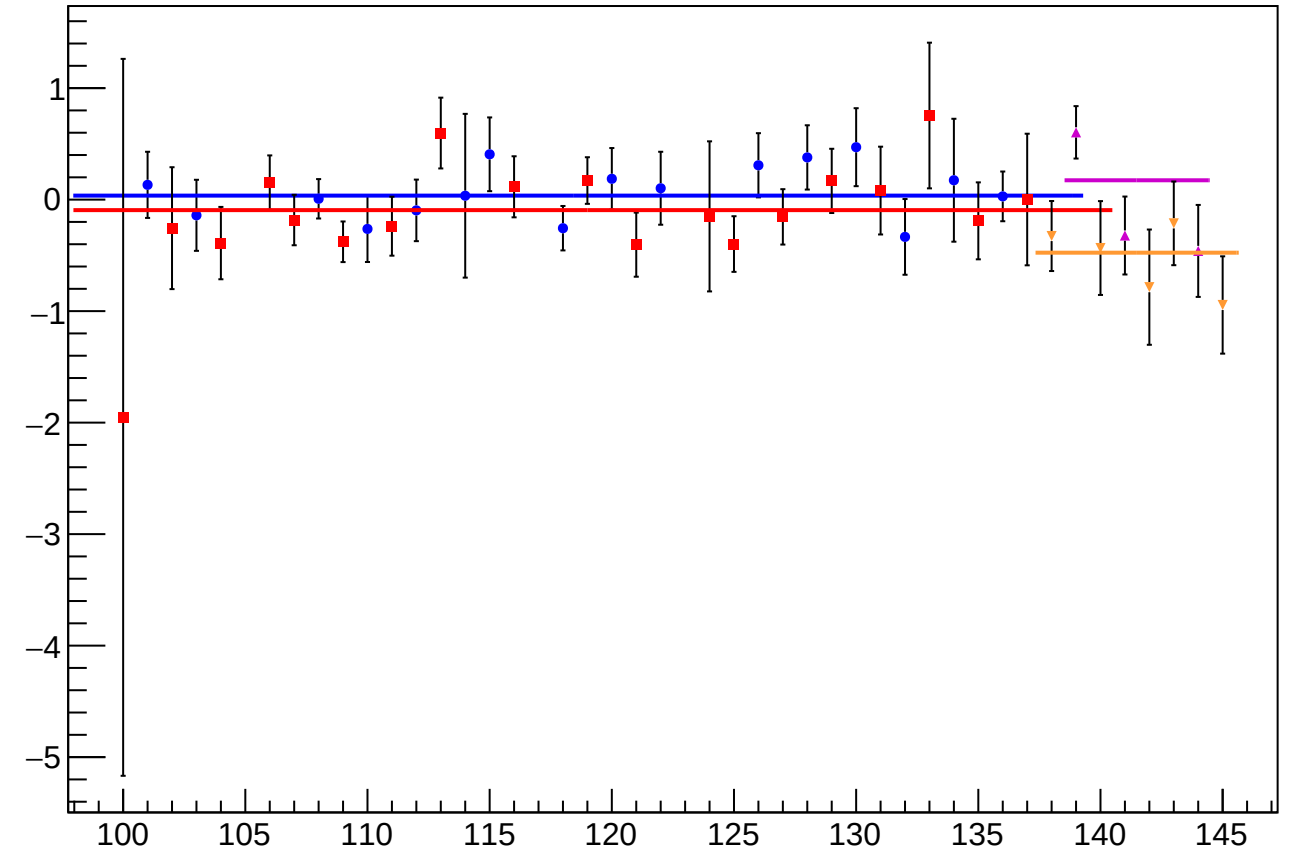
Left: 0.006+/-0.000 $\chi^2$/NDF: 3668271.8/7

Right: 0.007+/-0.000 $\chi^2$/NDF: 9295058.4/34

In: 0.007+/-0.000 $\chi^2$/NDF:6260325.5/18

Out: 0.006+/-0.000 $\chi^2$/NDF:6856674.4/23

All: 0.006+/-0.000 $\chi^2$/NDF: 13200550.0/42




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.476+/-0.177 $\chi^2$/NDF:2.2/4

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.173+/-0.176 $\chi^2$/NDF:7.7/2

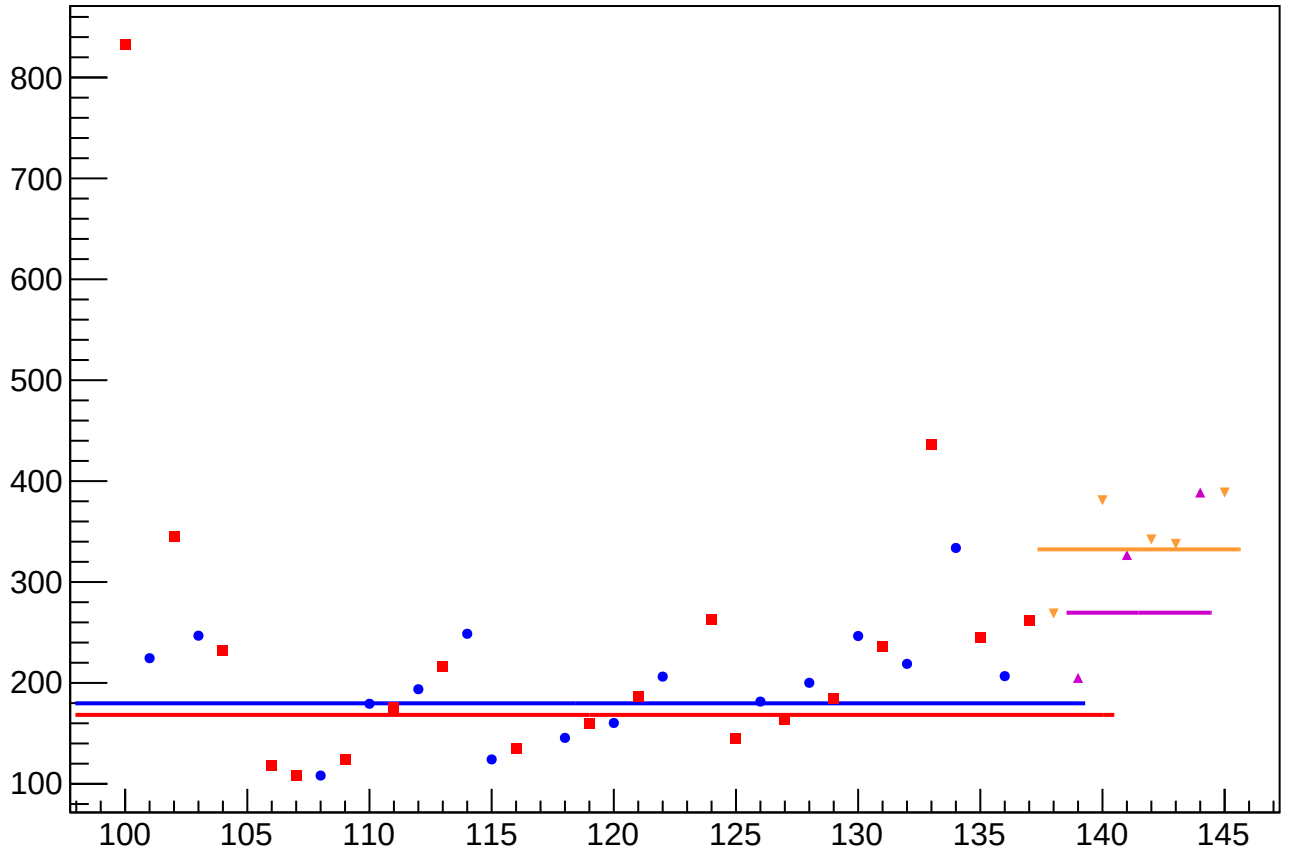
Left: -0.150+/-0.125 $\chi^2$/NDF: 16.7/7

Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.055+/-0.066 $\chi^2$/NDF:18.8/18

Out: -0.143+/-0.063 $\chi^2$/NDF:23.9/23

All: -0.048+/-0.045 $\chi^2$/NDF: 47.4/42




Right In: 179.793+/-0.050 $\chi^2$/NDF: 918583.7/15

Left Out: 332.362+/-0.125 $\chi^2$/NDF:143124.7/4

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409289.2/18

Left In: 269.598+/-0.125 $\chi^2$/NDF:371386.8/2

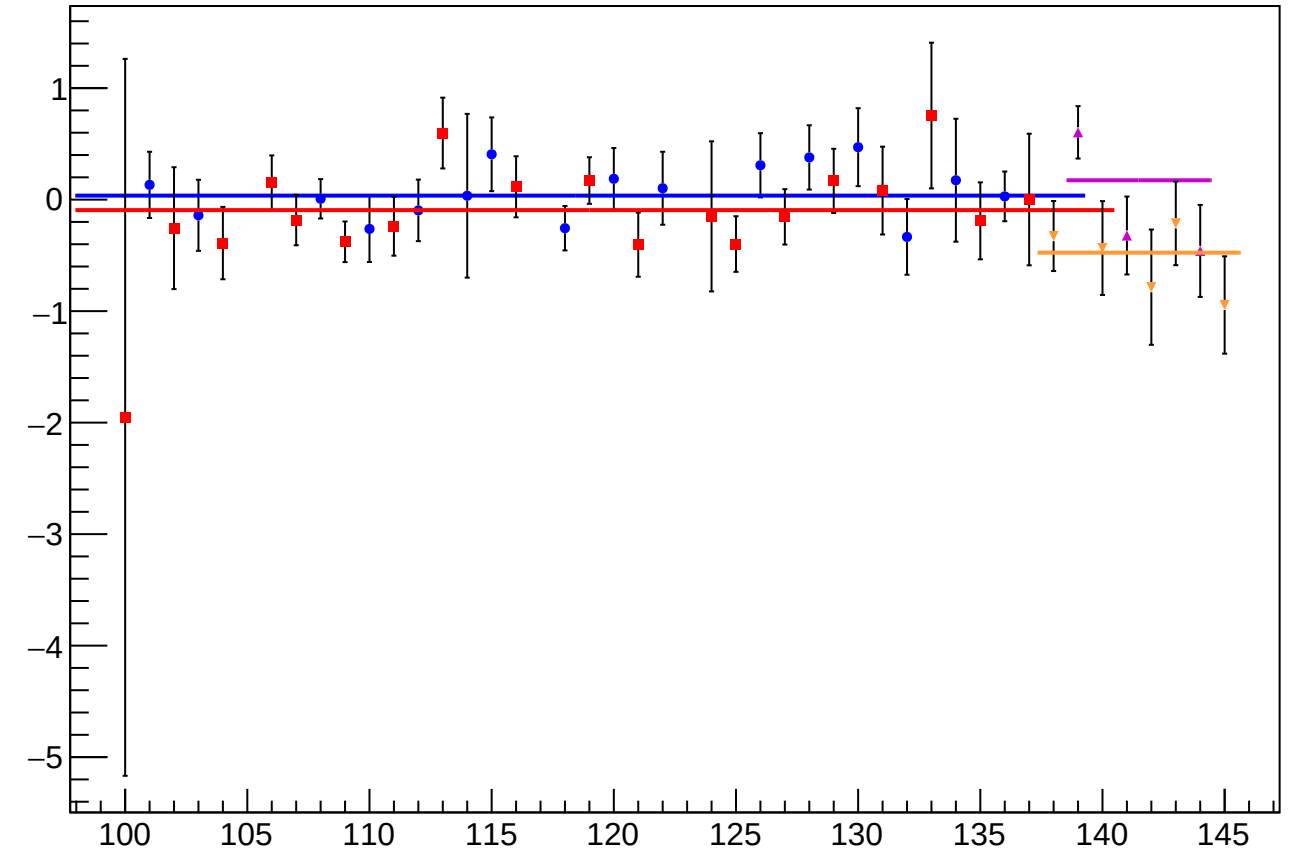
Left: 300.846+/-0.088 $\chi^2$/NDF: 640670.9/7

Right: 173.819+/-0.035 $\chi^2$/NDF: 2355358.4/34

In: 192.194+/-0.046 $\chi^2$/NDF:1737109.8/18

Out: 189.215+/-0.045 $\chi^2$/NDF:3049957.7/23

All: 190.651+/-0.032 $\chi^2$/NDF: 4789209.7/42




Right In: 0.036+/-0.071 $\chi^2$/NDF: 10.5/15

Left Out: -0.476+/-0.177 $\chi^2$/NDF:2.2/4

Right Out: -0.094+/-0.068 $\chi^2$/NDF: 17.6/18

Left In: 0.173+/-0.176 $\chi^2$/NDF:7.7/2

Left: -0.150+/-0.125 $\chi^2$/NDF: 16.7/7

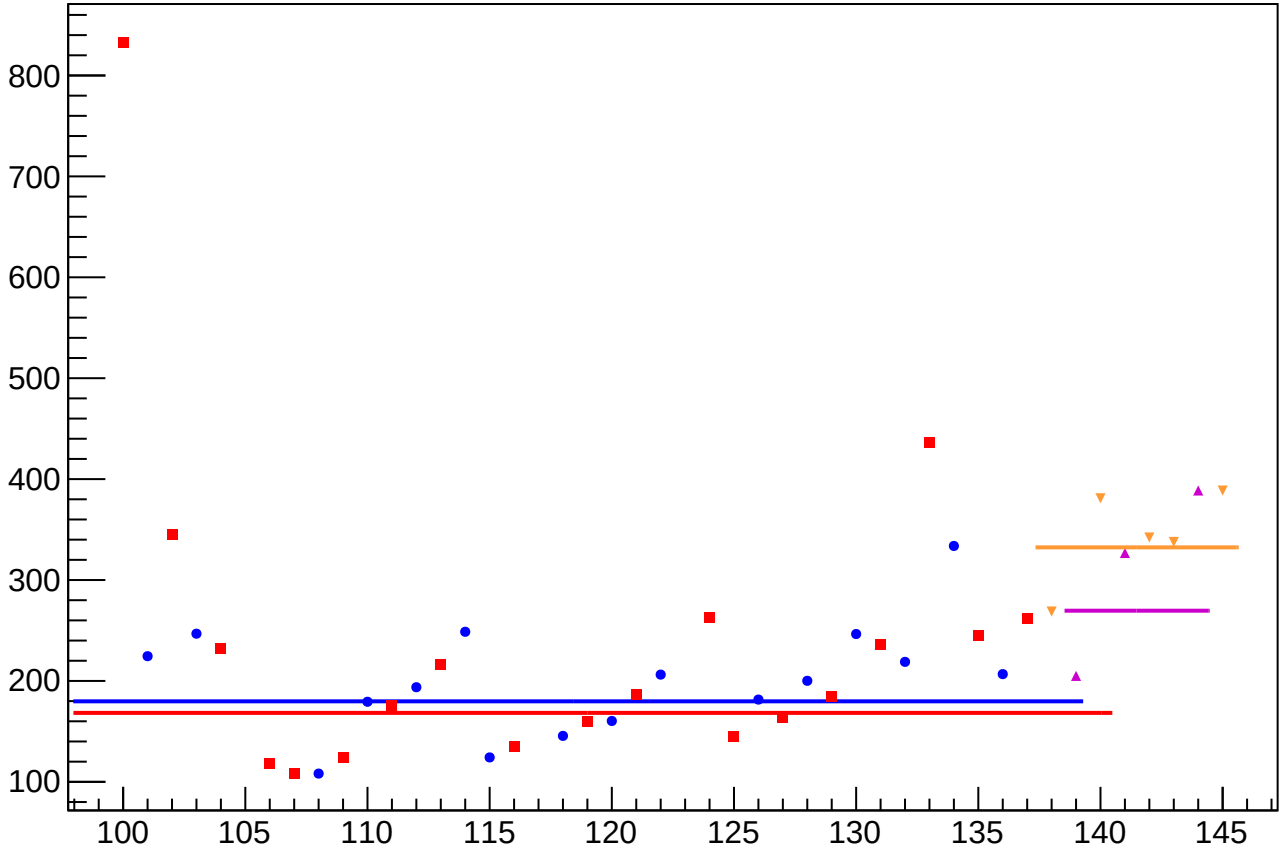
Right: -0.032+/-0.049 $\chi^2$/NDF: 29.9/34

In: 0.055+/-0.066 $\chi^2$/NDF:18.8/18

Out: -0.143+/-0.063 $\chi^2$/NDF:23.9/23

All: -0.048+/-0.045 $\chi^2$/NDF: 47.4/42

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: 332.362+/-0.125 $\chi^2$/NDF:143124.7/4

Right Out: 168.334+/-0.048 $\chi^2$/NDF: 1409289.2/18

Left In: 269.598+/-0.125 $\chi^2$/NDF:371386.8/2

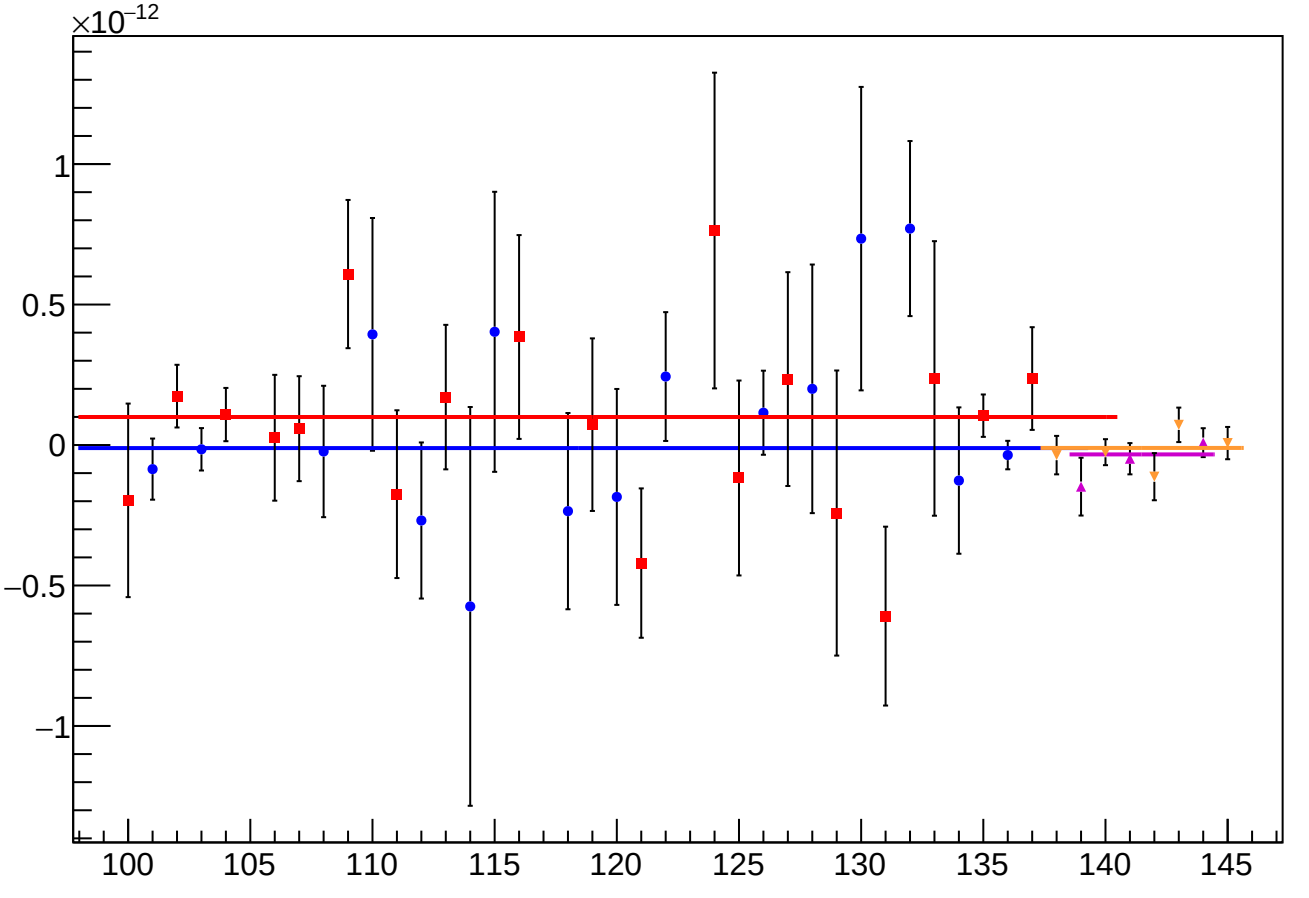
Left: 300.846+/-0.088 $\chi^2$/NDF: 640670.9/7

Right: 173.819+/-0.035 $\chi^2$/NDF: 2355358.4/34

In: 192.194+/-0.046 $\chi^2$/NDF:1737109.8/18

Out: 189.215+/-0.045 $\chi^2$/NDF:3049957.7/23

All: 190.651+/-0.032 $\chi^2$/NDF: 4789209.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.0/2

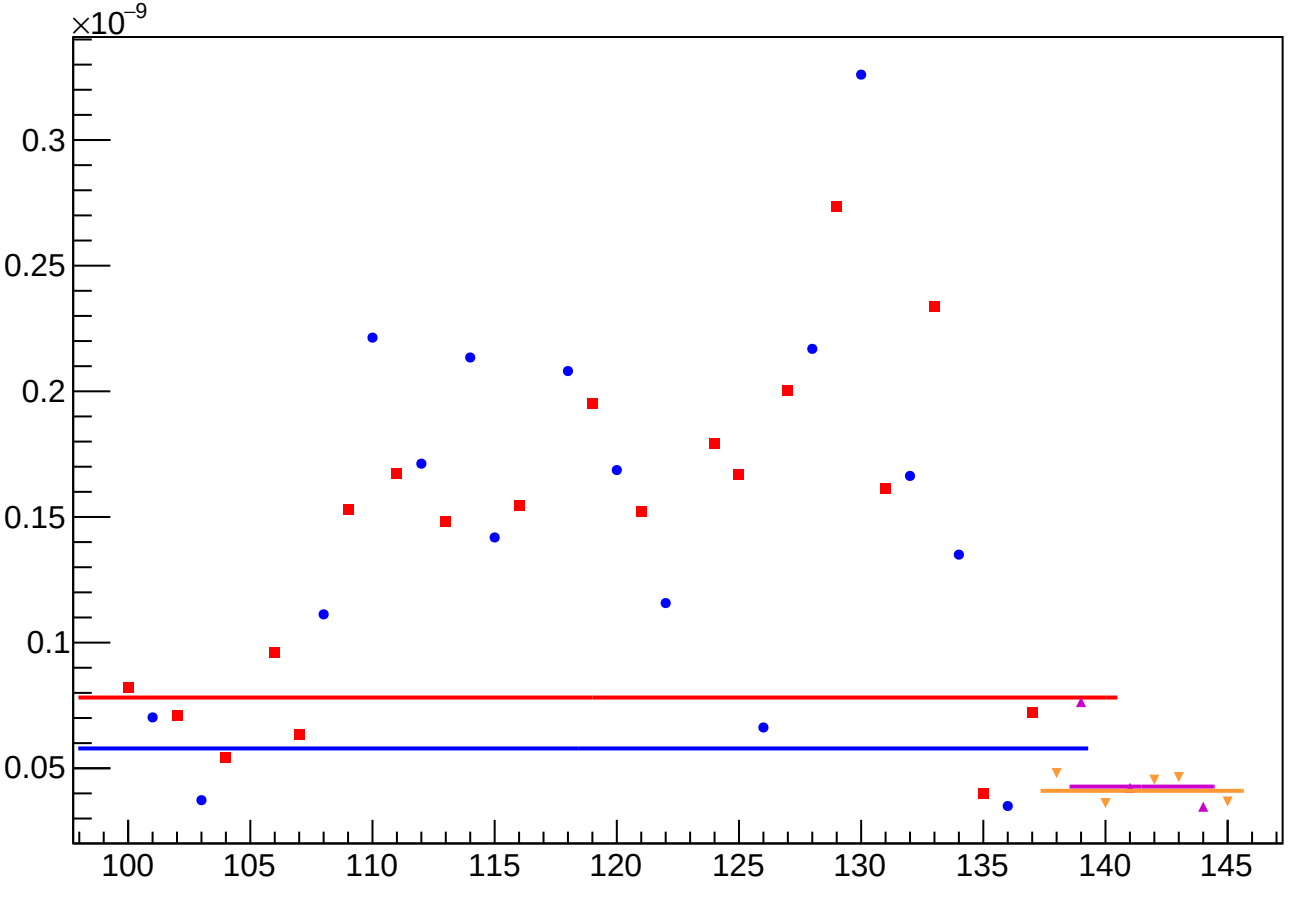
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.9/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:26.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 45.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3322992.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:76023.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2732134.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:262124.3/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 340972.3/7

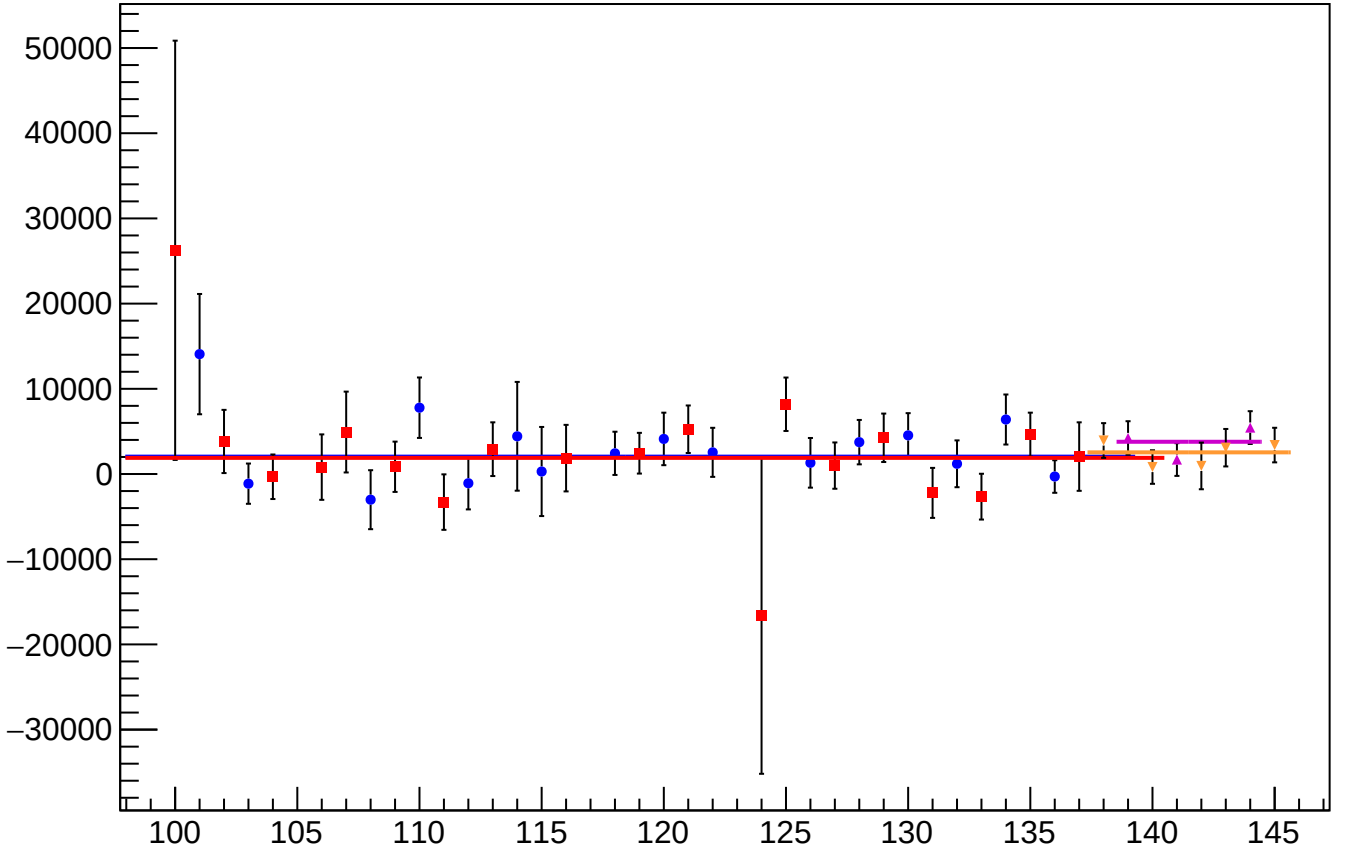
Right: 0.000+/-0.000 $\chi^2$/NDF: 6327236.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:3769468.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3913201.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7686098.4/42

# reg_asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2039.211+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 2541.240+/-961.723 $\chi^2$/NDF:1.8/4

Right Out: 1895.242+/-736.762 $\chi^2$/NDF: 18.5/18

Left In: 3784.407+/-1117.377 $\chi^2$/NDF:2.0/2

Left: 3070.271+/-728.913 $\chi^2$/NDF: 4.5/7

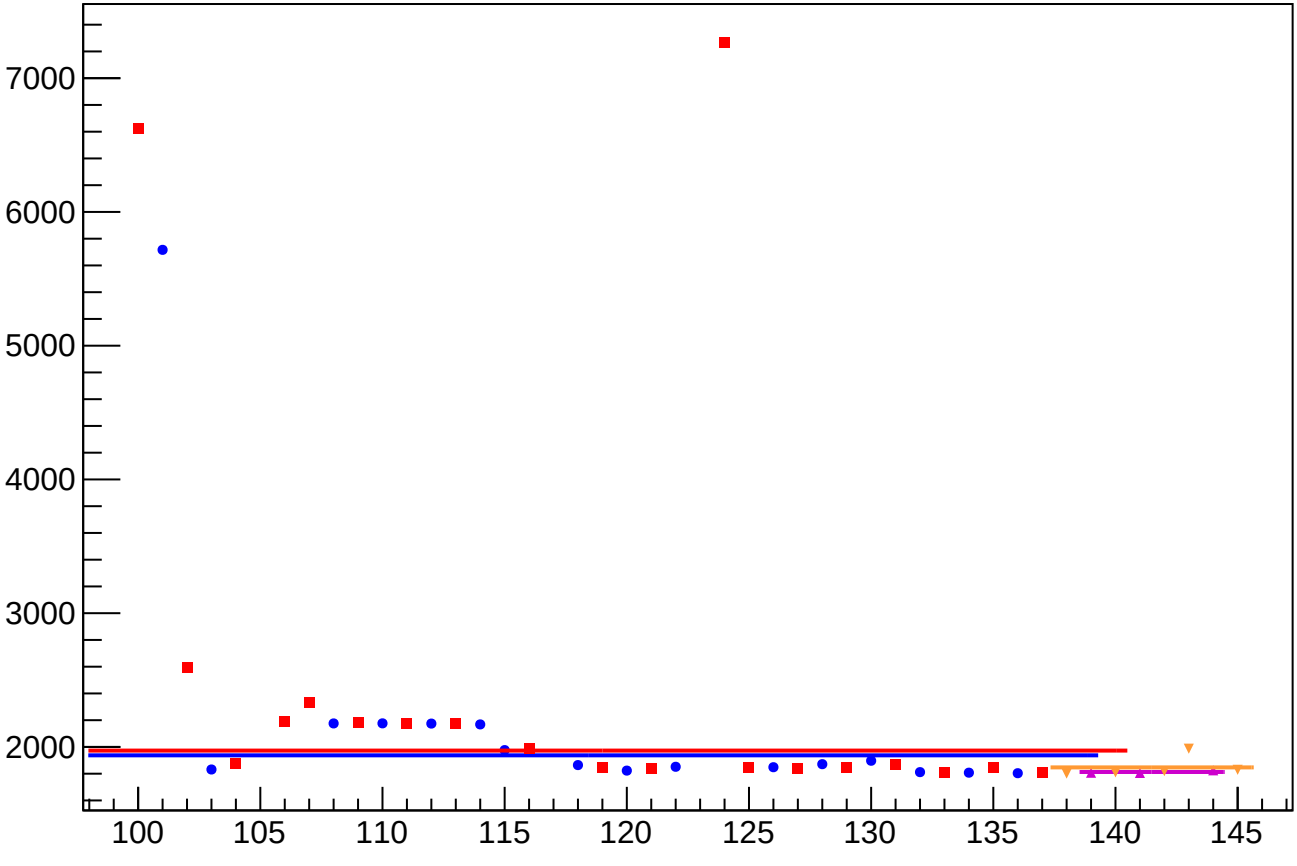
Right: 1967.281+/-520.774 $\chi^2$/NDF: 35.0/34

In: 2567.493+/-614.767 $\chi^2$/NDF:20.1/18

Out: 2134.155+/-584.863 $\chi^2$/NDF:20.6/23

All: 2340.029+/-423.738 $\chi^2$/NDF: 41.0/42

# reg_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1847.064+/-0.680 $\chi^2$/NDF:10214.7/4

Right Out: 1972.760+/-0.521 $\chi^2$/NDF: 377537.1/18

Left In: 1812.739+/-0.790 $\chi^2$/NDF:126.5/2

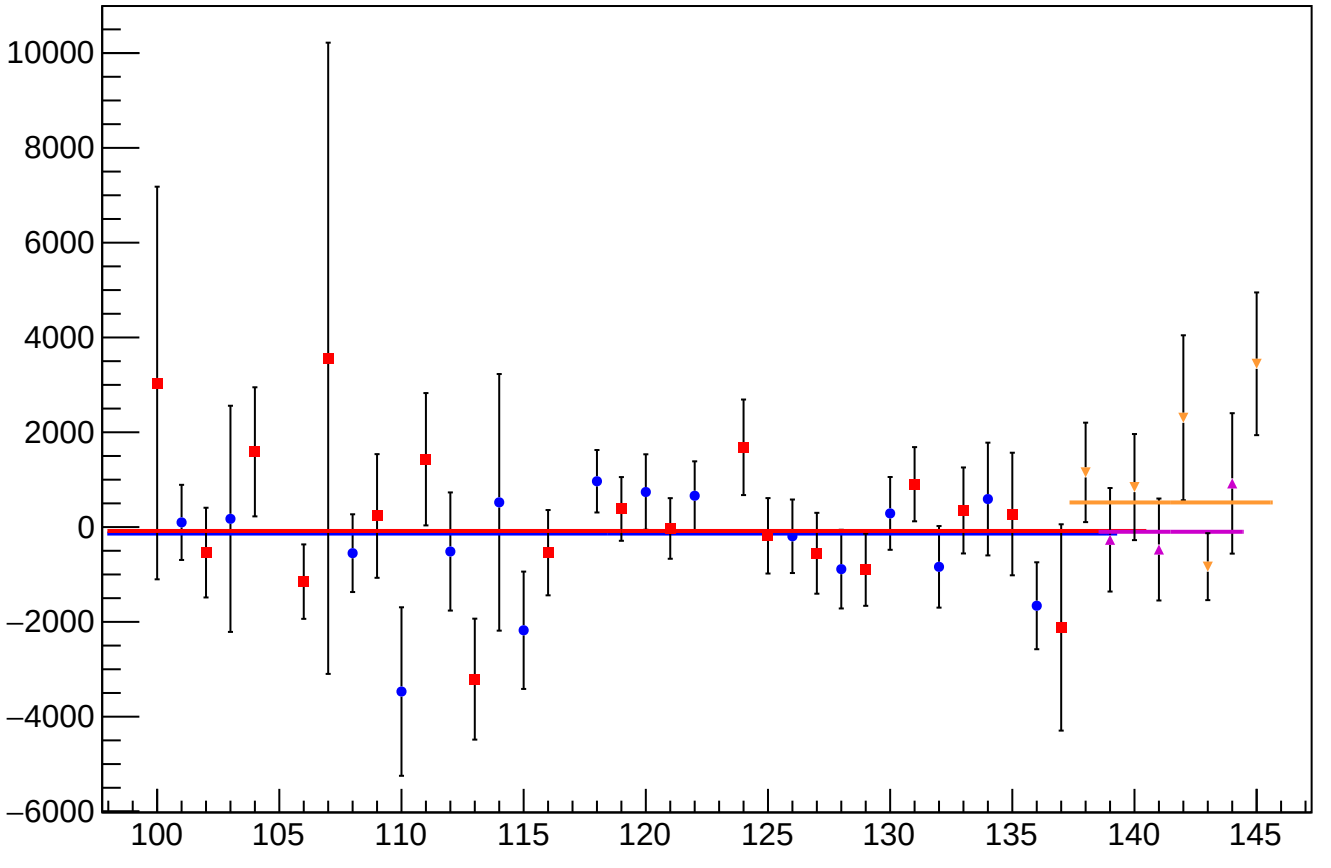
Left: 1832.457+/-0.515 $\chi^2$/NDF: 11425.3/7

Right: 1954.992+/-0.368 $\chi^2$/NDF: 1017954.2/34

In: 1899.561+/-0.435 $\chi^2$/NDF:655535.7/18

Out: 1926.273+/-0.414 $\chi^2$/NDF:409280.8/23

All: 1913.583+/-0.300 $\chi^2$/NDF: 1066798.7/42




Right In: -136.643+/-230.431 $\chi^2$/NDF: 16.9/15

Left Out: 519.439+/-472.242 $\chi^2$/NDF:9.0/4

Right Out: -82.296+/-222.019 $\chi^2$/NDF: 19.7/18

Left In: -99.257+/-680.643 $\chi^2$/NDF:0.6/2

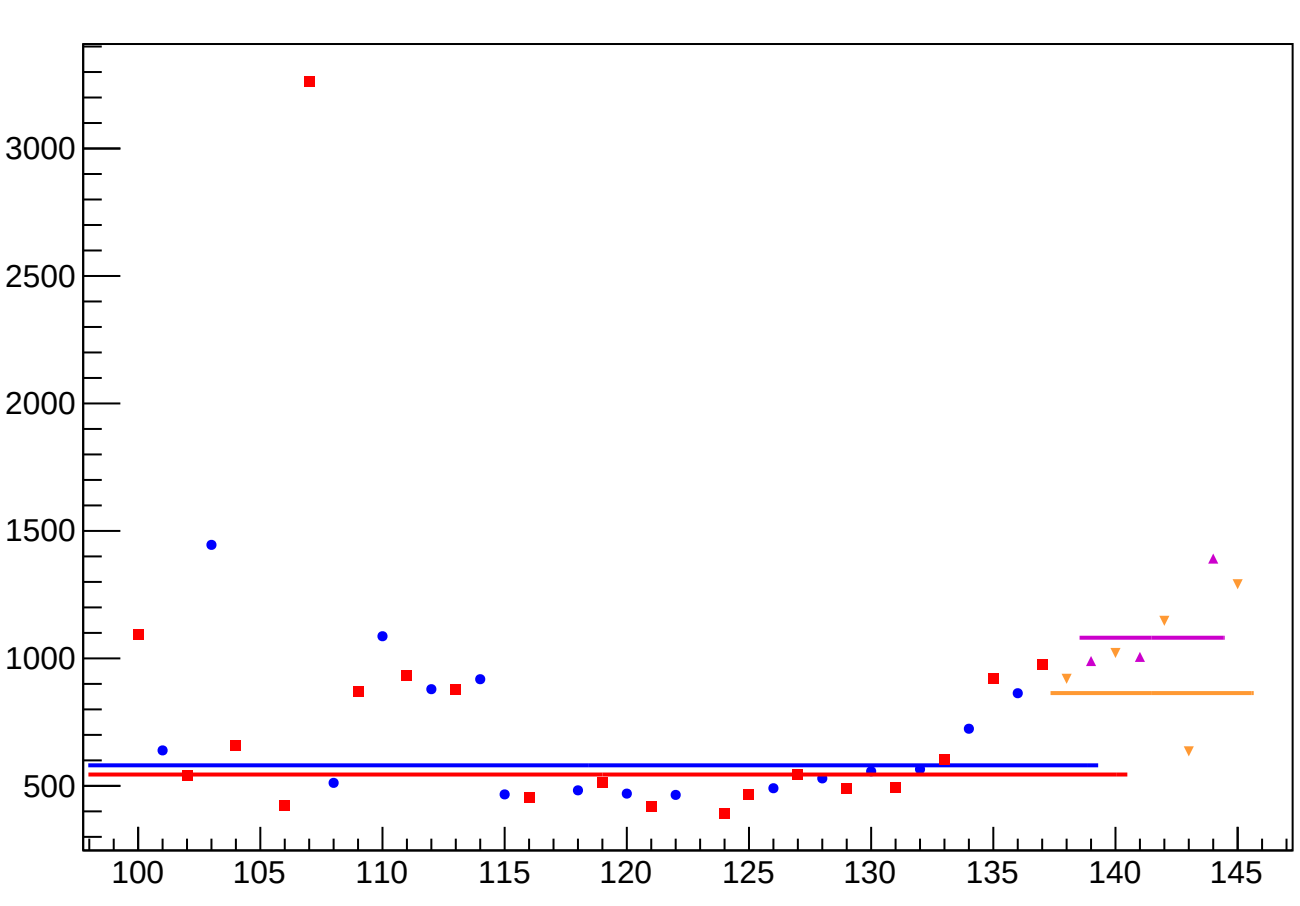
Left: 318.390+/-387.999 $\chi^2$/NDF: 10.1/7

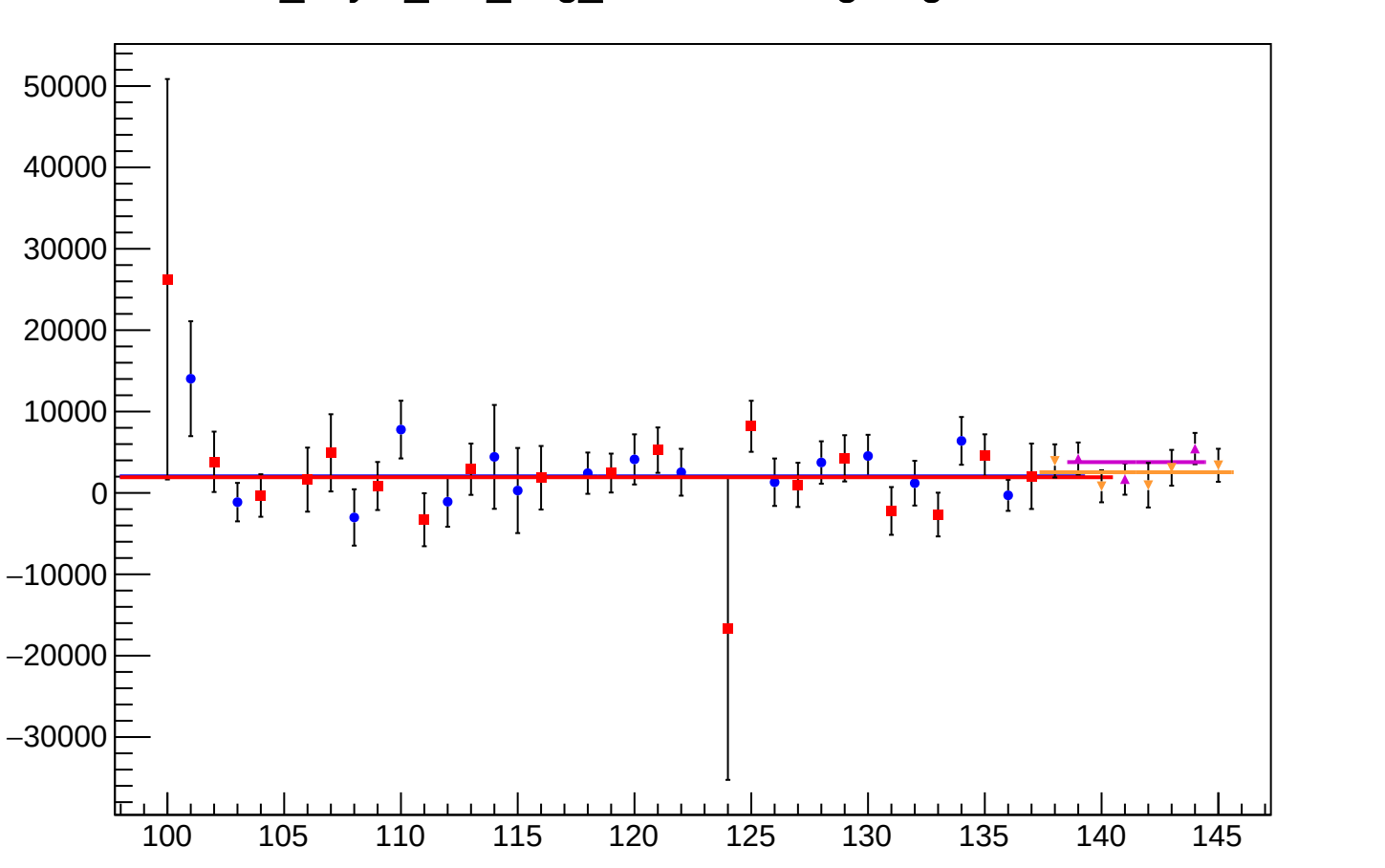
Right: -108.459+/-159.882 $\chi^2$/NDF: 36.7/34

In: -132.799+/-218.262 $\chi^2$/NDF:17.5/18

Out: 26.629+/-200.921 $\chi^2$/NDF:30.0/23

All: -46.501+/-147.824 $\chi^2$/NDF: 47.8/42


asym_at1_avg_reg_correction_rms vs Slug, Sign Corrected
3000
2500
2000
1500
1000
500
100
105
110
115
120
125
130
135
140
145
Right In: 580.611+/-0.163 χ²/NDF: 1003410.8/15
Left Out: 863.976+/-0.334 χ²/NDF:468630.8/4
Right Out: 544.530+/-0.157 χ²/NDF: 1287643.0/18
Left In: 1081.081+/-0.481 χ²/NDF:111583.6/2
Left: 934.525+/-0.274 χ²/NDF: 717576.4/7
Right: 561.900+/-0.113 χ²/NDF: 2316481.8/34
In: 632.074+/-0.154 χ²/NDF:2085111.3/18
Out: 602.356+/-0.142 χ²/NDF:2505766.8/23
All: 615.988+/-0.105 χ²/NDF: 4610948.1/42




Right In: 2038.842+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 2541.449+/-961.723 $\chi^2$/NDF:1.8/4

Right Out: 1926.264+/-737.411 $\chi^2$/NDF: 18.4/18

Left In: 3784.710+/-1117.377 $\chi^2$/NDF:2.0/2

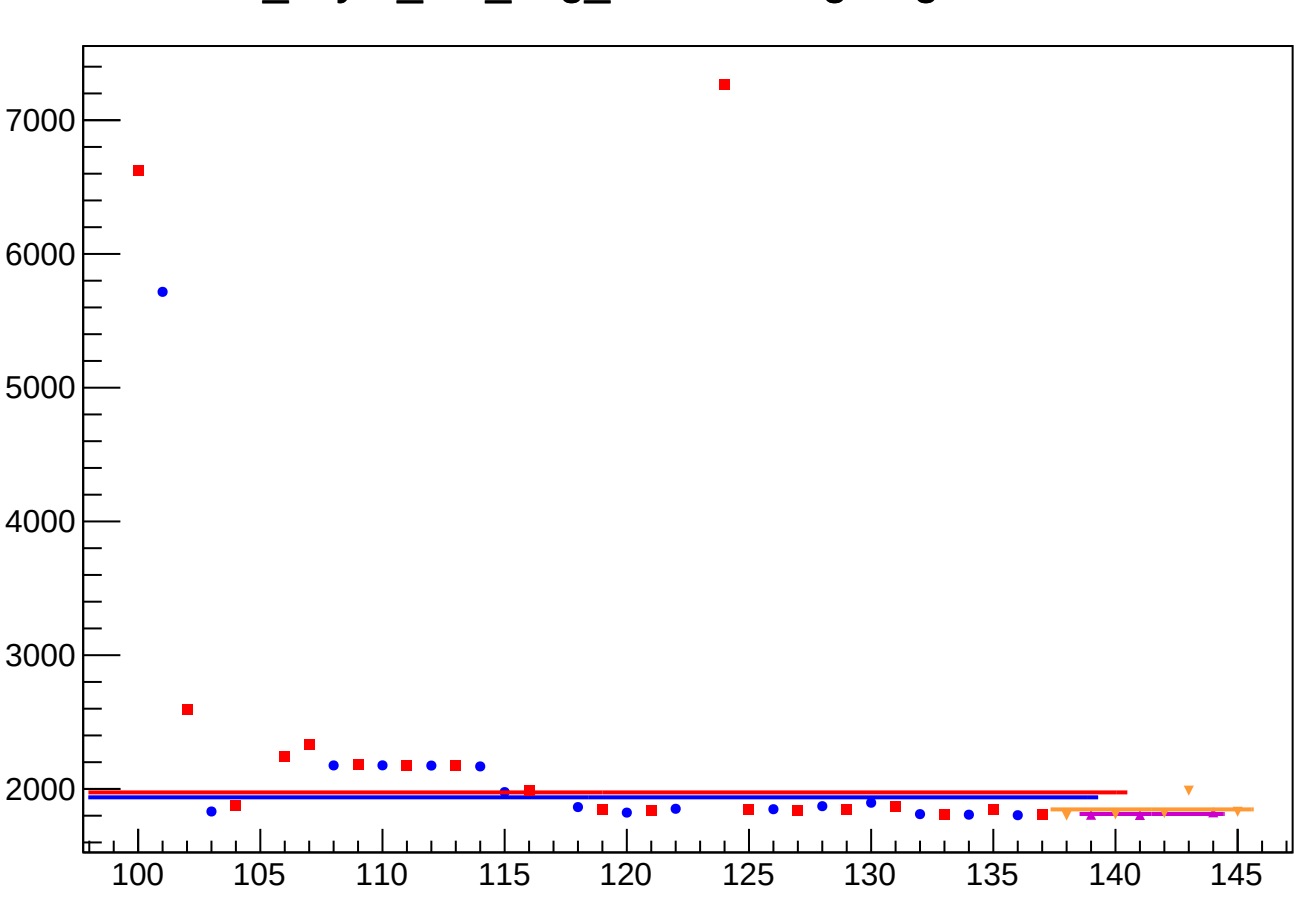
Left: 3070.520+/-728.913 $\chi^2$/NDF: 4.5/7

Right: 1982.645+/-521.003 $\chi^2$/NDF: 34.9/34

In: 2567.327+/-614.767 $\chi^2$/NDF:20.1/18

Out: 2154.033+/-585.187 $\chi^2$/NDF:20.5/23

All: 2350.499+/-423.861 $\chi^2$/NDF: 40.8/42




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1847.064+/-0.680 $\chi^2$/NDF:10214.7/4

Right Out: 1974.155+/-0.521 $\chi^2$/NDF: 380430.7/18

Left In: 1812.739+/-0.790 $\chi^2$/NDF:126.5/2

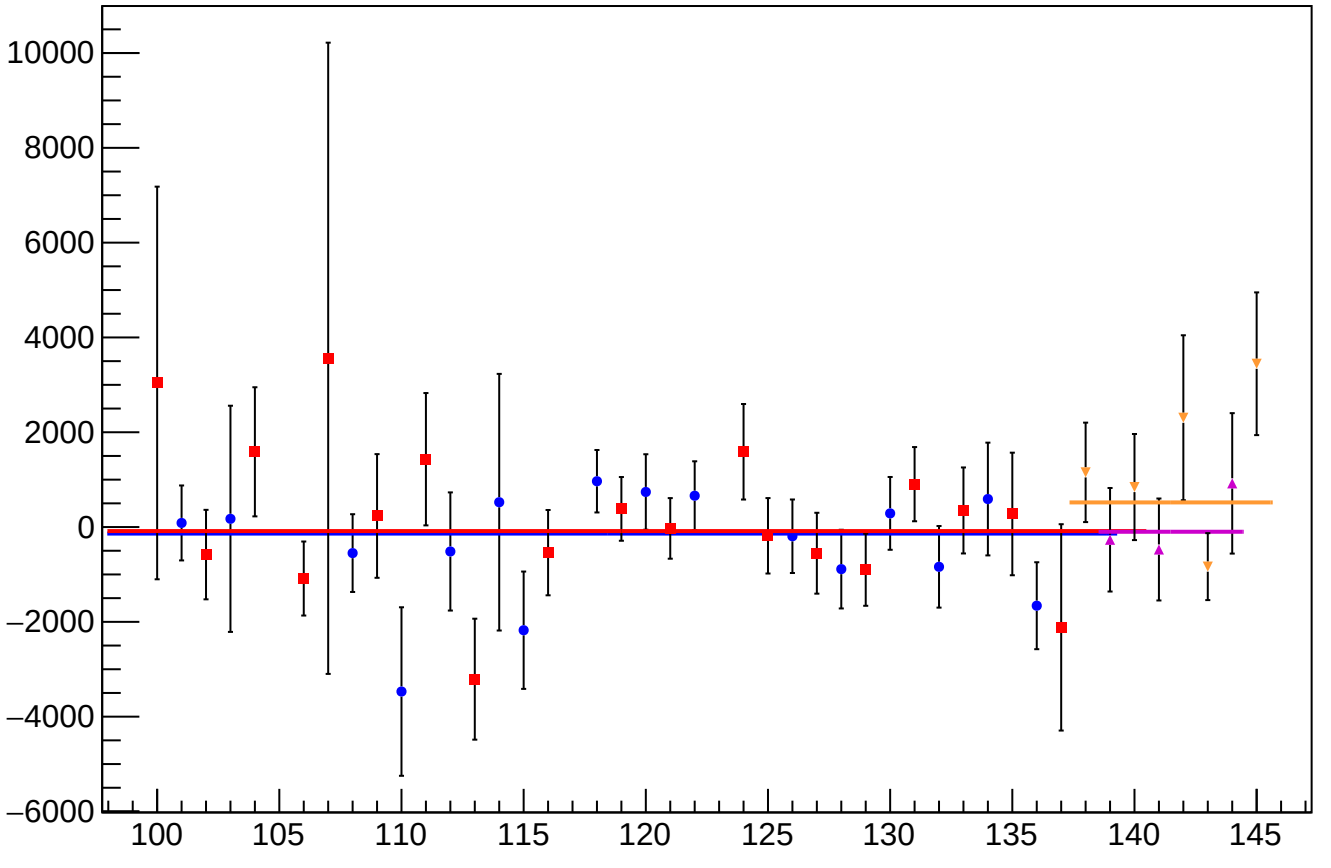
Left: 1832.457+/-0.515 $\chi^2$/NDF: 11425.3/7

Right: 1955.673+/-0.368 $\chi^2$/NDF: 1021031.8/34

In: 1899.561+/-0.435 $\chi^2$/NDF:655535.7/18

Out: 1927.100+/-0.414 $\chi^2$/NDF:412640.5/23

All: 1914.009+/-0.300 $\chi^2$/NDF: 1070281.9/42




Right In: -137.491+/-230.382 $\chi^2$/NDF: 16.9/15

Left Out: 519.581+/-472.242 $\chi^2$/NDF:9.0/4

Right Out: -84.947+/-221.881 $\chi^2$/NDF: 19.3/18

Left In: -99.224+/-680.648 $\chi^2$/NDF:0.6/2

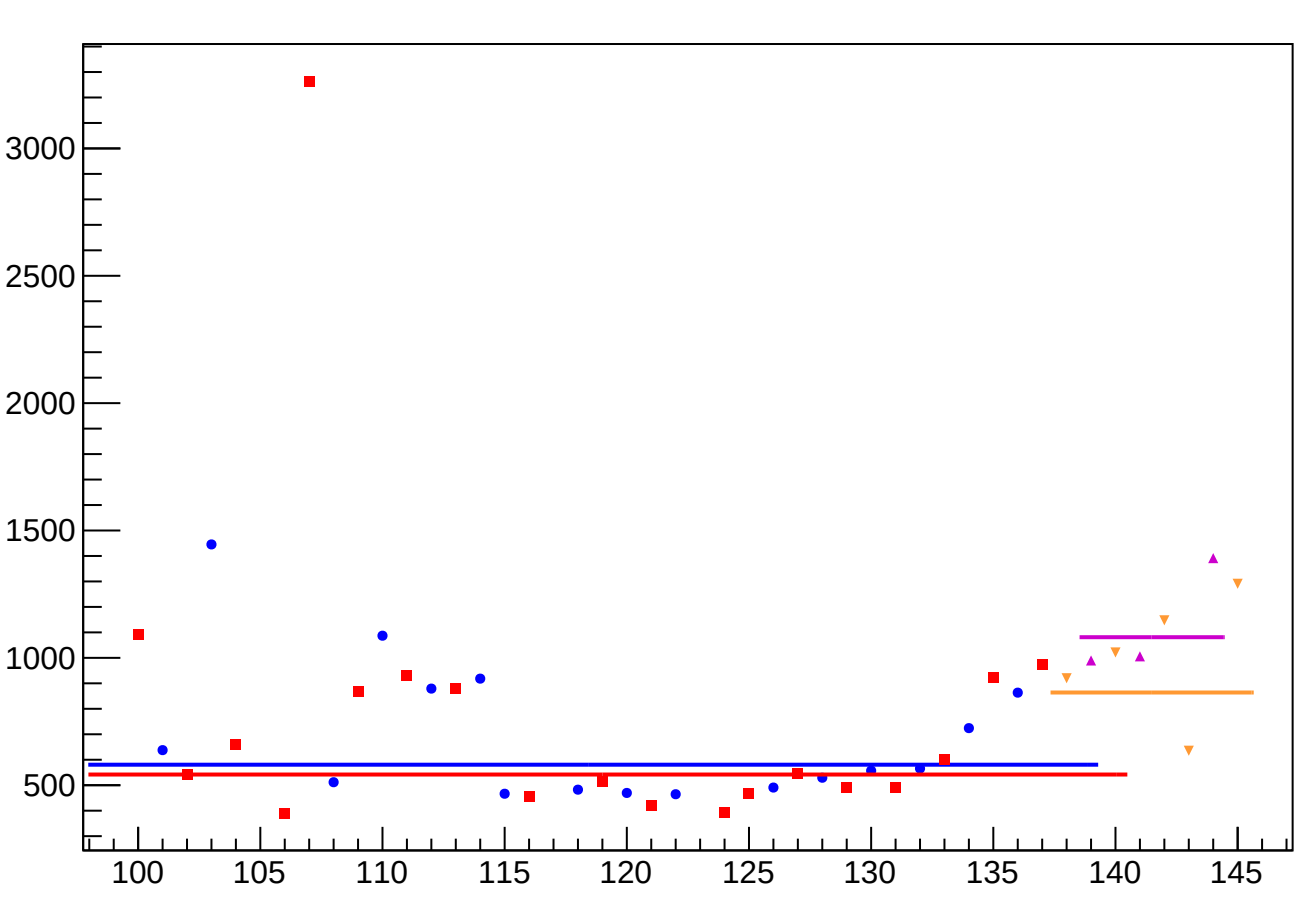
Left: 318.500+/-388.000 $\chi^2$/NDF: 10.1/7

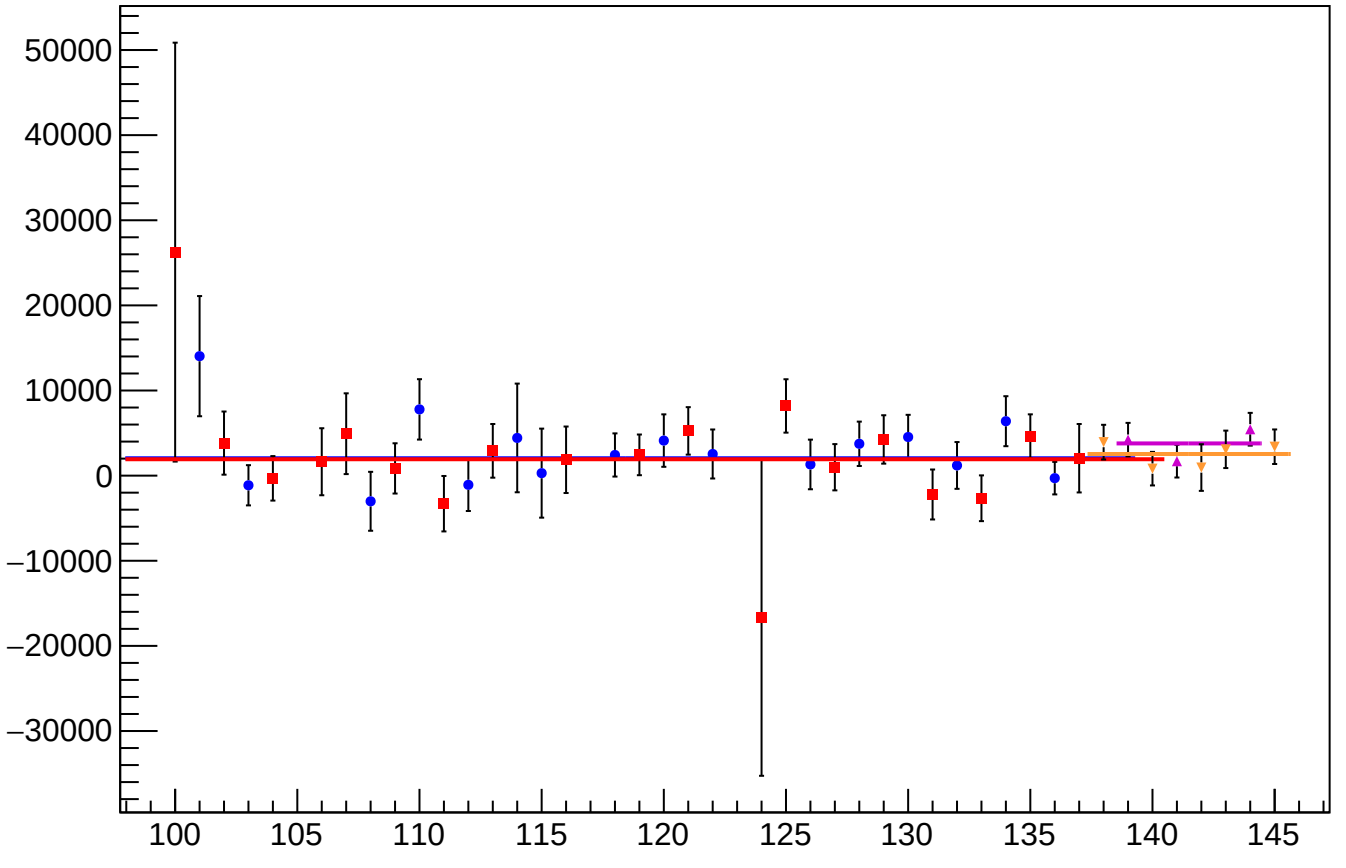
Right: -110.232+/-159.814 $\chi^2$/NDF: 36.2/34

In: -133.557+/-218.221 $\chi^2$/NDF:17.5/18

Out: 24.373+/-200.819 $\chi^2$/NDF:29.6/23

All: -48.045+/-147.770 $\chi^2$/NDF: 47.4/42


asym_at1_avg_cor_correction_rms vs Slug, Sign Corrected
3000
2500
2000
1500
1000
500
100
105
110
115
120
125
130
135
140
145
Right In: 580.519+/-0.163 χ²/NDF: 1002900.5/15
Left Out: 863.974+/-0.334 χ²/NDF:468616.9/4
Right Out: 541.939+/-0.157 χ²/NDF: 1318850.5/18
Left In: 1081.088+/-0.481 χ²/NDF:111582.4/2
Left: 934.526+/-0.274 χ²/NDF: 717571.1/7
Right: 560.504+/-0.113 χ²/NDF: 2350848.1/34
In: 631.972+/-0.154 χ²/NDF:2085012.4/18
Out: 600.174+/-0.142 χ²/NDF:2549335.9/23
All: 614.755+/-0.104 χ²/NDF: 4657341.4/42




Right In: 2038.842+/-736.211 $\chi^2$/NDF: 16.4/15

Left Out: 2541.449+/-961.723 $\chi^2$/NDF:1.8/4

Right Out: 1926.264+/-737.411 $\chi^2$/NDF: 18.4/18

Left In: 3784.710+/-1117.377 $\chi^2$/NDF:2.0/2

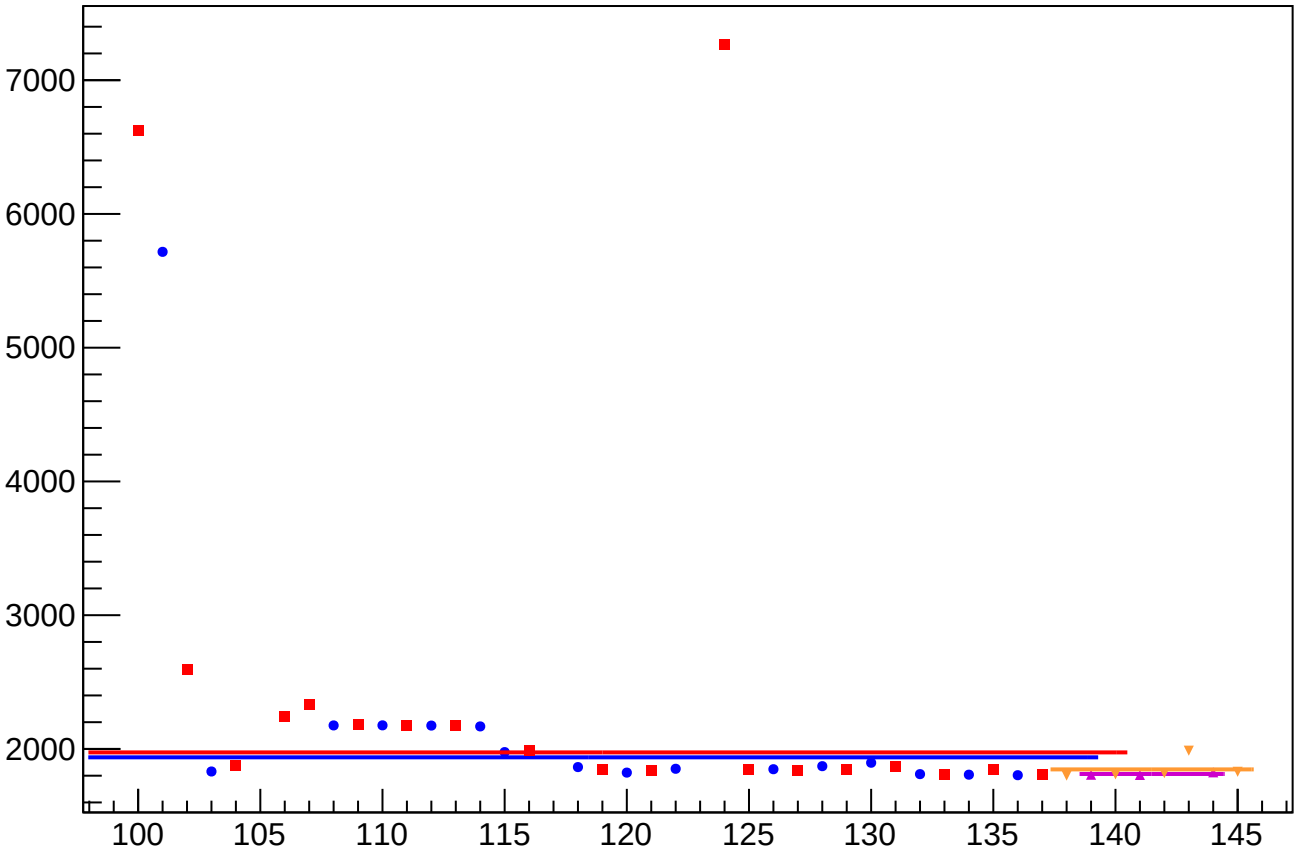
Left: 3070.520+/-728.913 $\chi^2$/NDF: 4.5/7

Right: 1982.645+/-521.003 $\chi^2$/NDF: 34.9/34

In: 2567.327+/-614.767 $\chi^2$/NDF:20.1/18

Out: 2154.033+/-585.187 $\chi^2$/NDF:20.5/23

All: 2350.499+/-423.861 $\chi^2$/NDF: 40.8/42




Right In: 1937.251+/-0.521 $\chi^2$/NDF: 638092.5/15

Left Out: 1847.064+/-0.680 $\chi^2$/NDF:10214.7/4

Right Out: 1974.155+/-0.521 $\chi^2$/NDF: 380430.7/18

Left In: 1812.739+/-0.790 $\chi^2$/NDF:126.5/2

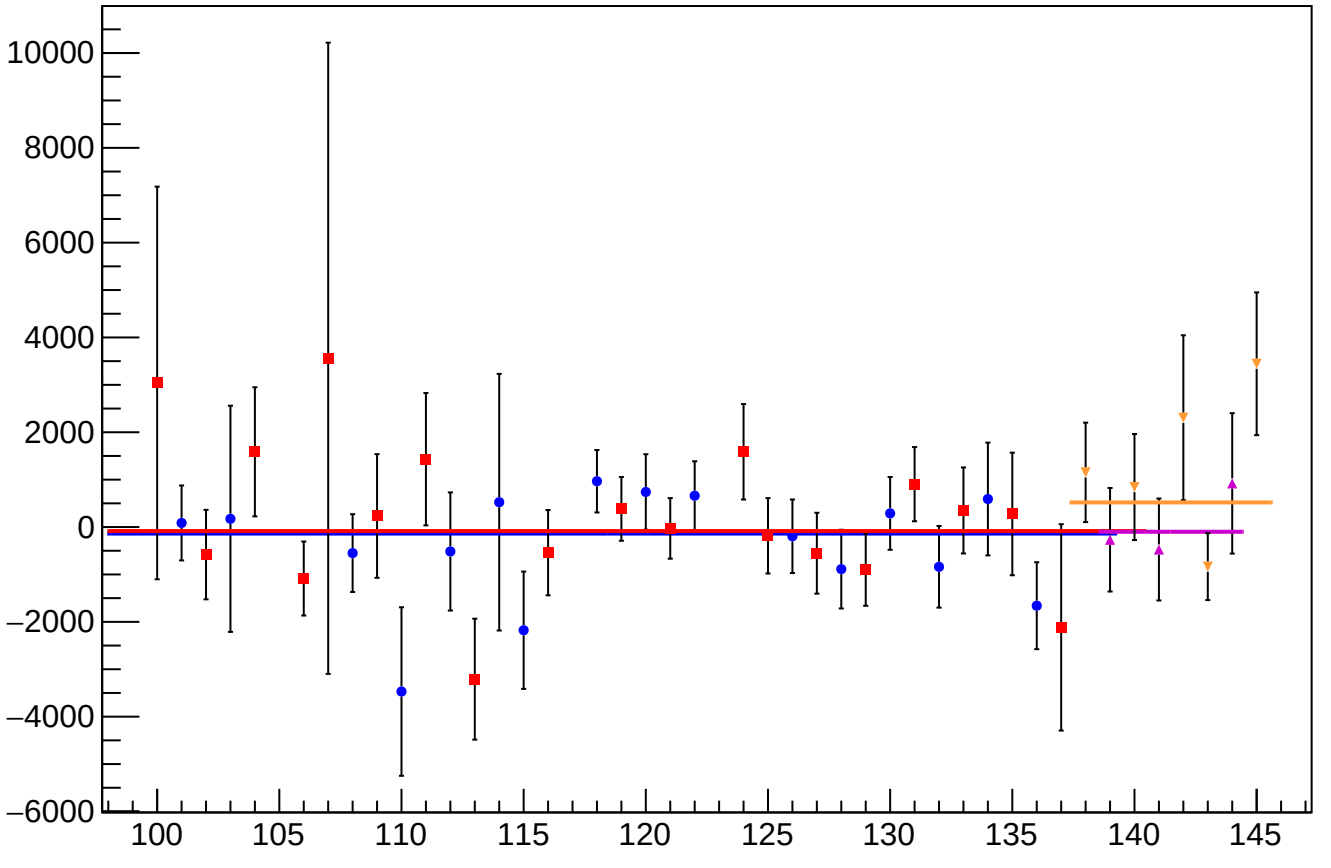
Left: 1832.457+/-0.515 $\chi^2$/NDF: 11425.3/7

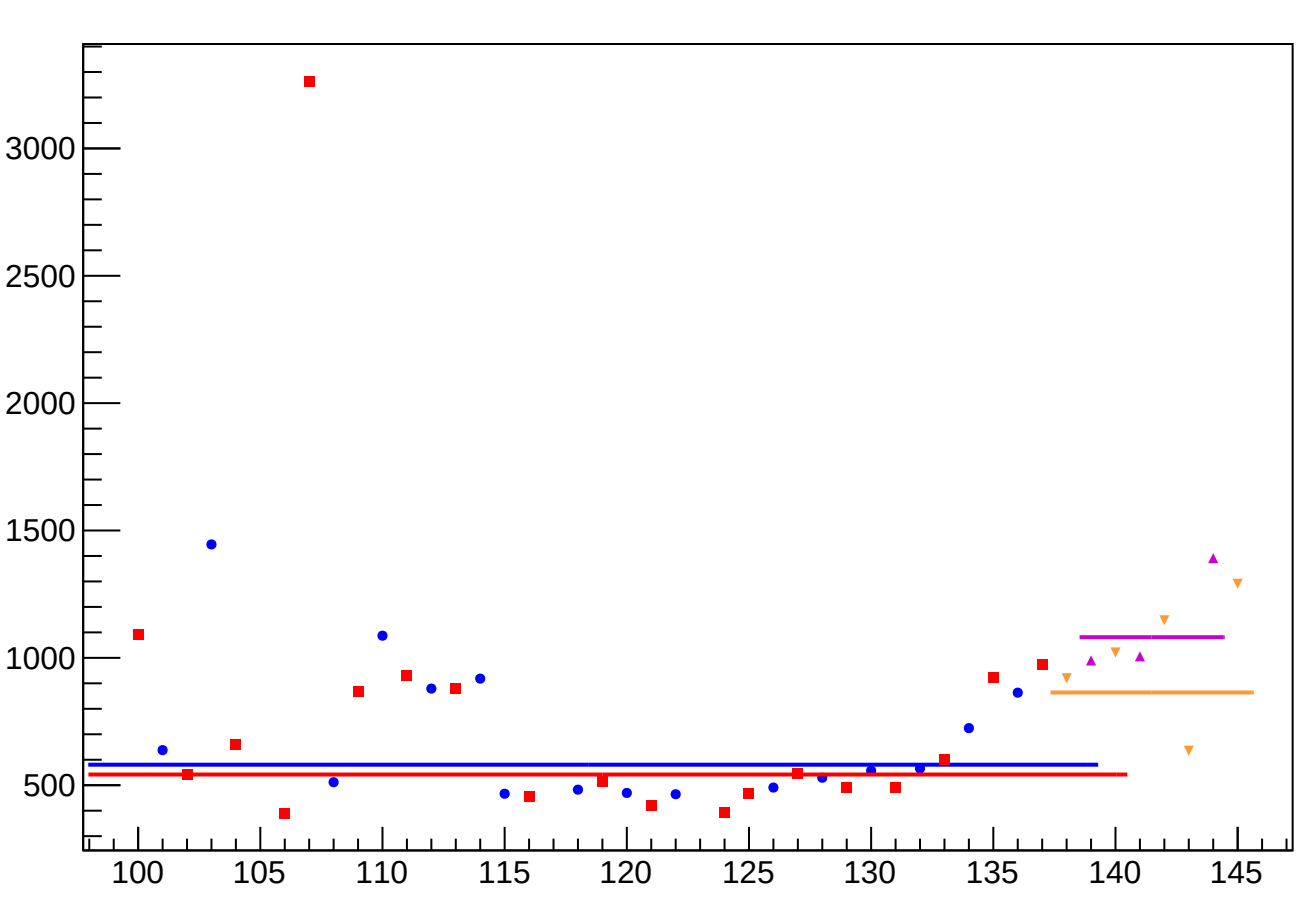
Right: 1955.673+/-0.368 $\chi^2$/NDF: 1021031.8/34

In: 1899.561+/-0.435 $\chi^2$/NDF:655535.7/18

Out: 1927.100+/-0.414 $\chi^2$/NDF:412640.5/23

All: 1914.009+/-0.300 $\chi^2$/NDF: 1070281.9/42


asym_at1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
100
105
110
115
120
125
130
135
140
145
Right In: -137.491+/-230.382 χ²/NDF: 16.9/15
Left Out: 519.581+/-472.242 χ²/NDF:9.0/4
Right Out: -84.947+/-221.881 χ²/NDF: 19.3/18
Left In: -99.224+/-680.648 χ²/NDF:0.6/2
Left: 318.500+/-388.000 χ²/NDF: 10.1/7
Right: -110.232+/-159.814 χ²/NDF: 36.2/34
In: -133.557+/-218.221 χ²/NDF:17.5/18
Out: 24.373+/-200.819 χ²/NDF:29.6/23
All: -48.045+/-147.770 χ²/NDF: 47.4/42


asym_at1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
3000
2500
2000
1500
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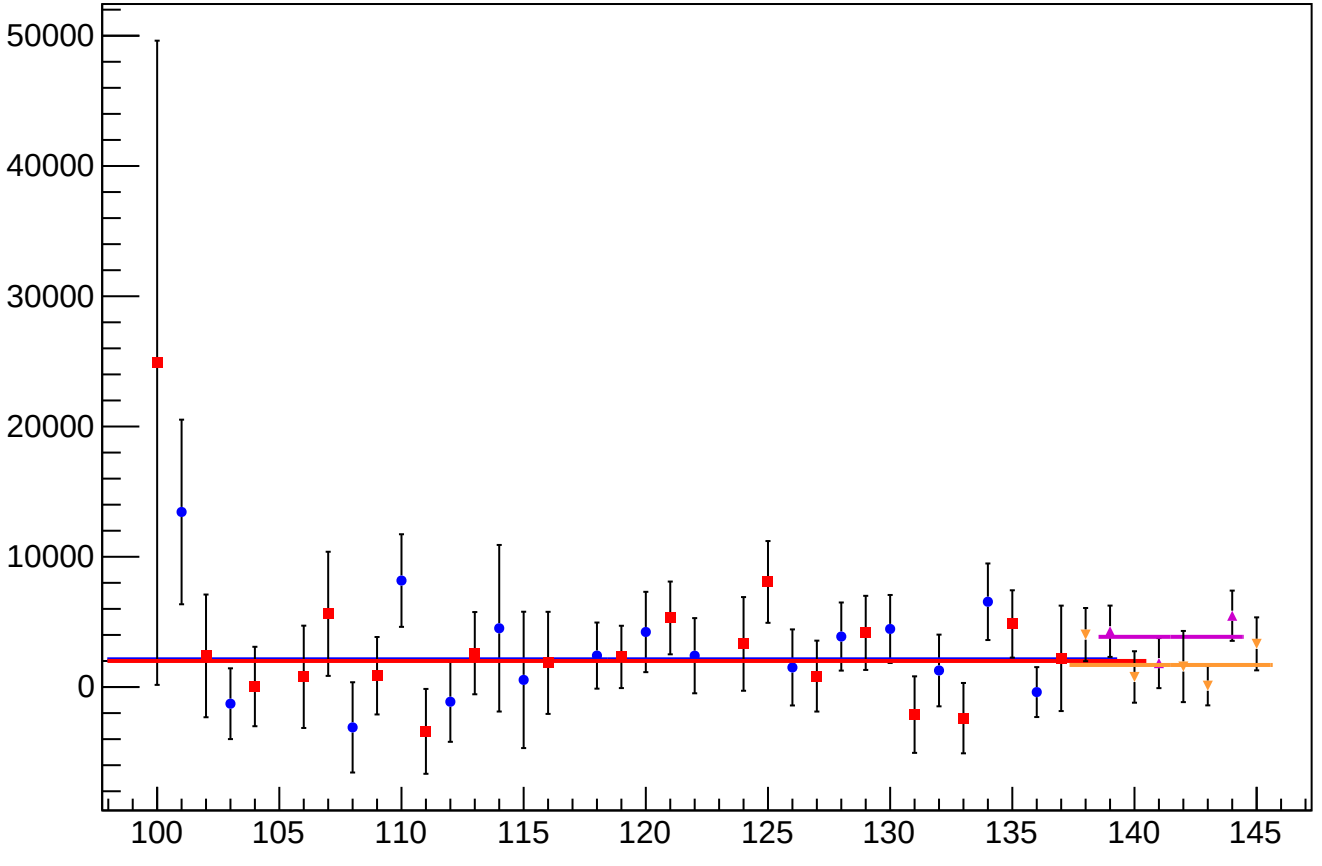
500
100
105
110
115
120
125
130
135
140
145
Right In: 580.519+/-0.163 χ²/NDF: 1002900.5/15
Left Out: 863.974+/-0.334 χ²/NDF:468616.9/4
Right Out: 541.939+/-0.157 χ²/NDF: 1318850.5/18
Left In: 1081.088+/-0.481 χ²/NDF:111582.4/2
Left: 934.526+/-0.274 χ²/NDF: 717571.1/7
Right: 560.504+/-0.113 χ²/NDF: 2350848.1/34
In: 631.972+/-0.154 χ²/NDF:2085012.4/18
Out: 600.174+/-0.142 χ²/NDF:2549335.9/23
All: 614.755+/-0.104 χ²/NDF: 4657341.4/42

# dit_asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2128.748+/-746.242 $\chi^2$/NDF: 16.5/15

Left Out: 1694.890+/-873.595 $\chi^2$/NDF:3.3/4

Right Out: 2002.220+/-737.195 $\chi^2$/NDF: 16.7/18

Left In: 3854.728+/-1119.820 $\chi^2$/NDF:1.9/2

Left: 2512.036+/-688.791 $\chi^2$/NDF: 7.4/7

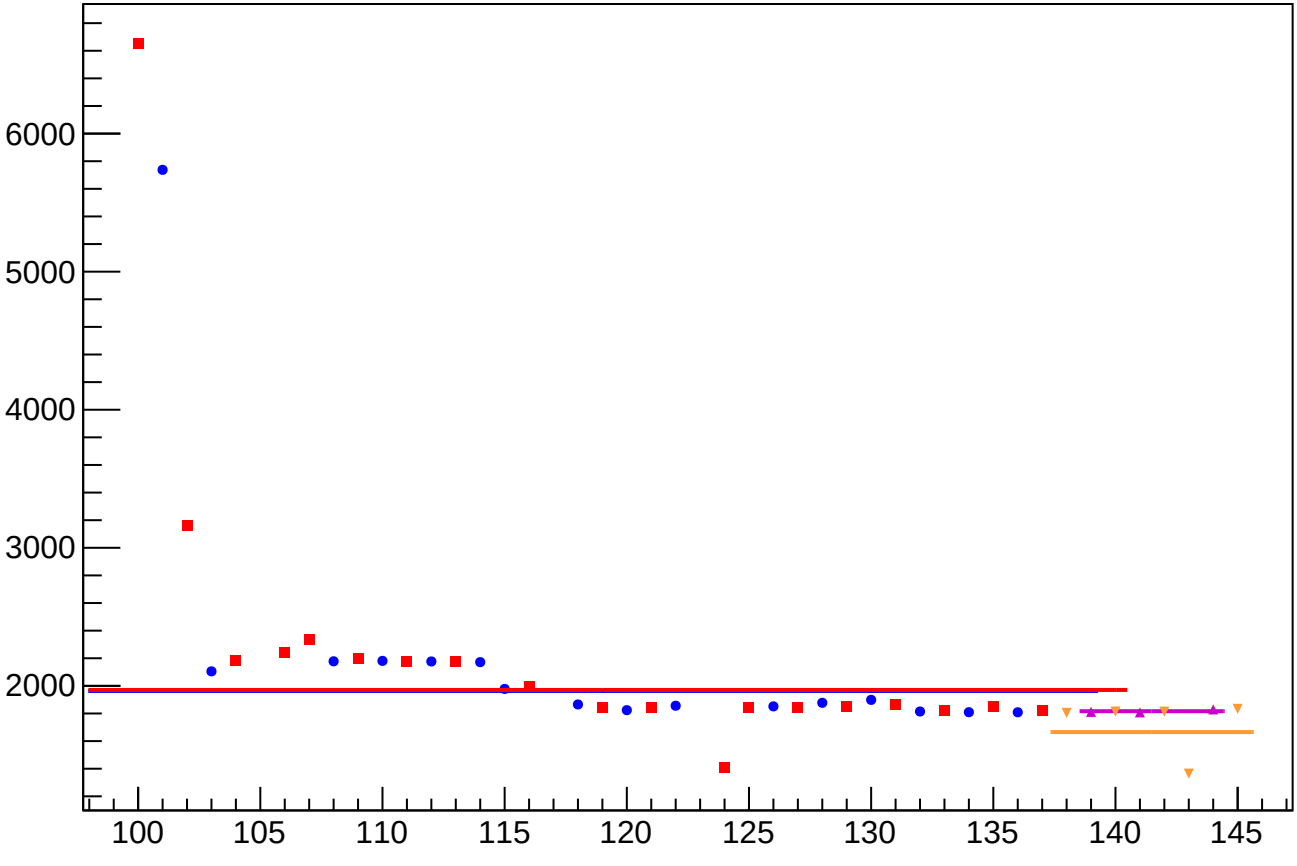
Right: 2064.712+/-524.445 $\chi^2$/NDF: 33.3/34

In: 2659.519+/-620.989 $\chi^2$/NDF:20.0/18

Out: 1874.394+/-563.400 $\chi^2$/NDF:20.1/23

All: 2228.871+/-417.262 $\chi^2$/NDF: 41.0/42

# dit_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1963.415+/-0.528 $\chi^2$/NDF: 640254.1/15

Left Out: 1665.169+/-0.618 $\chi^2$/NDF:119632.1/4

Right Out: 1970.459+/-0.521 $\chi^2$/NDF: 345133.0/18

Left In: 1816.608+/-0.792 $\chi^2$/NDF:141.4/2

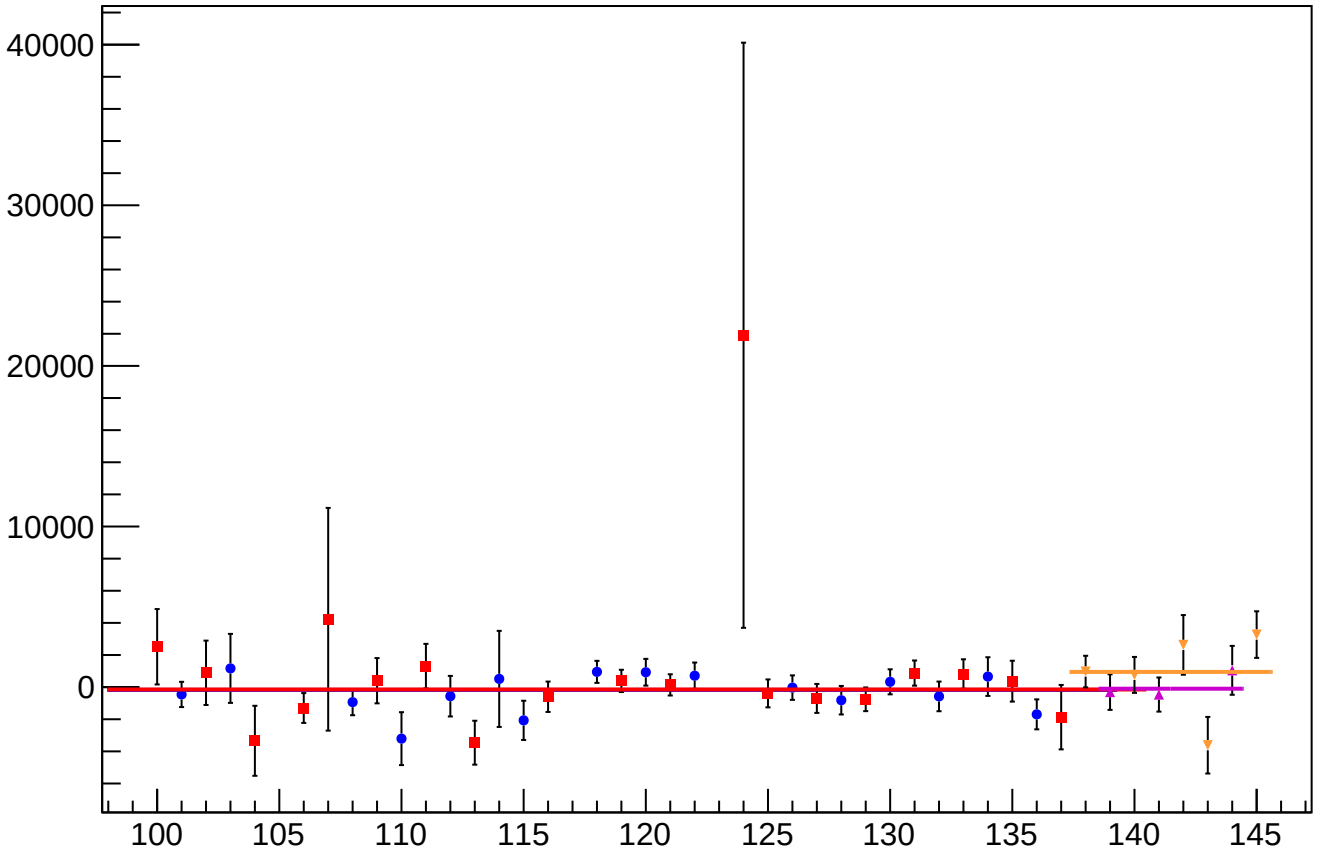
Left: 1722.464+/-0.487 $\chi^2$/NDF: 142511.9/7

Right: 1966.980+/-0.371 $\chi^2$/NDF: 985477.3/34

In: 1918.269+/-0.439 $\chi^2$/NDF:664198.8/18

Out: 1843.482+/-0.398 $\chi^2$/NDF:607426.1/23

All: 1877.248+/-0.295 $\chi^2$/NDF: 1287535.9/42




Right In: -170.774+/-236.912 $\chi^2$/NDF: 17.2/15

Left Out: 946.948+/-585.067 $\chi^2$/NDF:10.1/4

Right Out: -147.489+/-242.848 $\chi^2$/NDF: 20.1/18

Left In: -98.085+/-684.669 $\chi^2$/NDF:0.7/2

Left: 505.905+/-444.791 $\chi^2$/NDF: 12.2/7

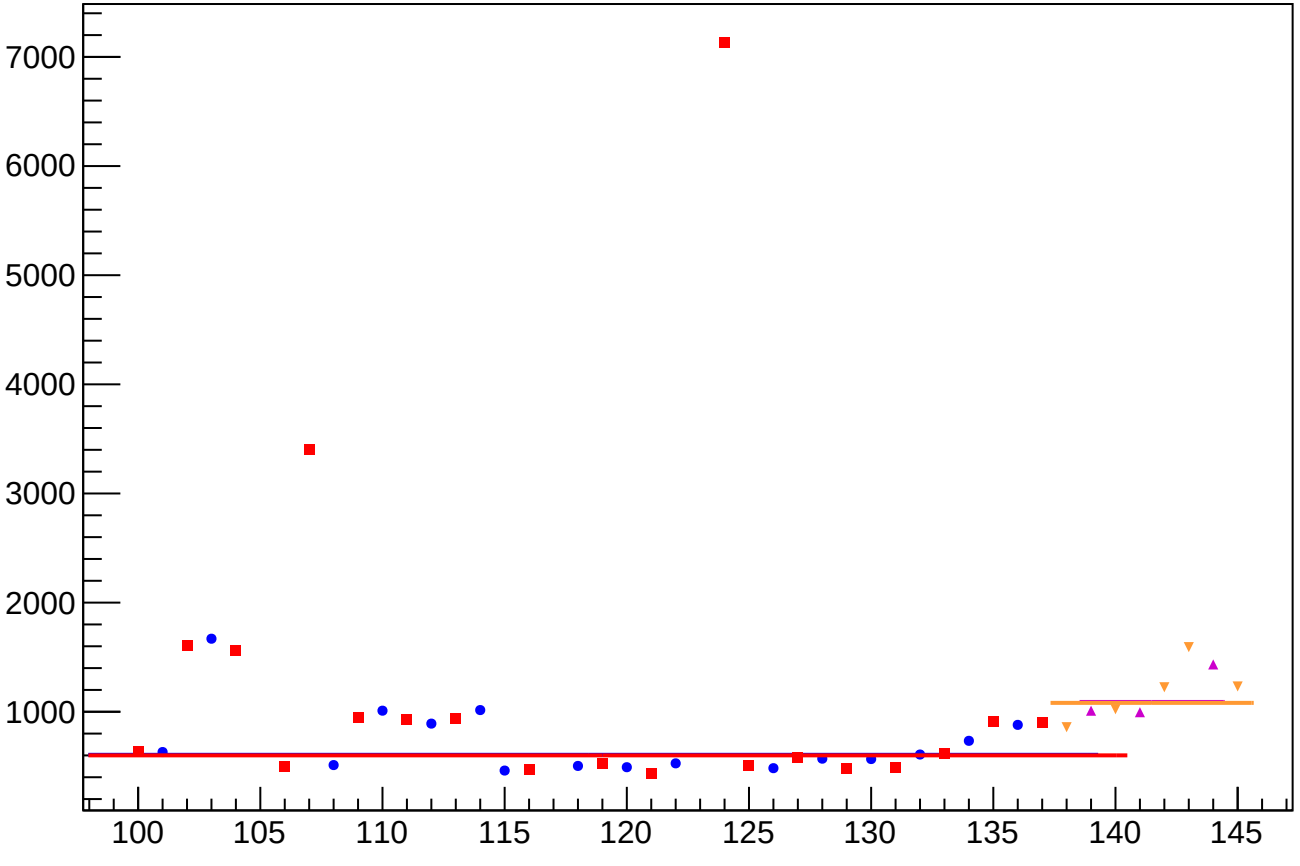
Right: -159.420+/-169.582 $\chi^2$/NDF: 37.3/34

In: -163.001+/-223.887 $\chi^2$/NDF:18.0/18

Out: 13.357+/-224.293 $\chi^2$/NDF:33.2/23

All: -74.982+/-158.456 $\chi^2$/NDF: 51.5/42

# asym_at1_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 605.430+/-0.168 $\chi^2$/NDF: 1162454.5/15

Left Out: 1081.417+/-0.414 $\chi^2$/NDF:309611.7/4

Right Out: 600.447+/-0.172 $\chi^2$/NDF: 2328523.8/18

Left In: 1089.751+/-0.484 $\chi^2$/NDF:128078.6/2

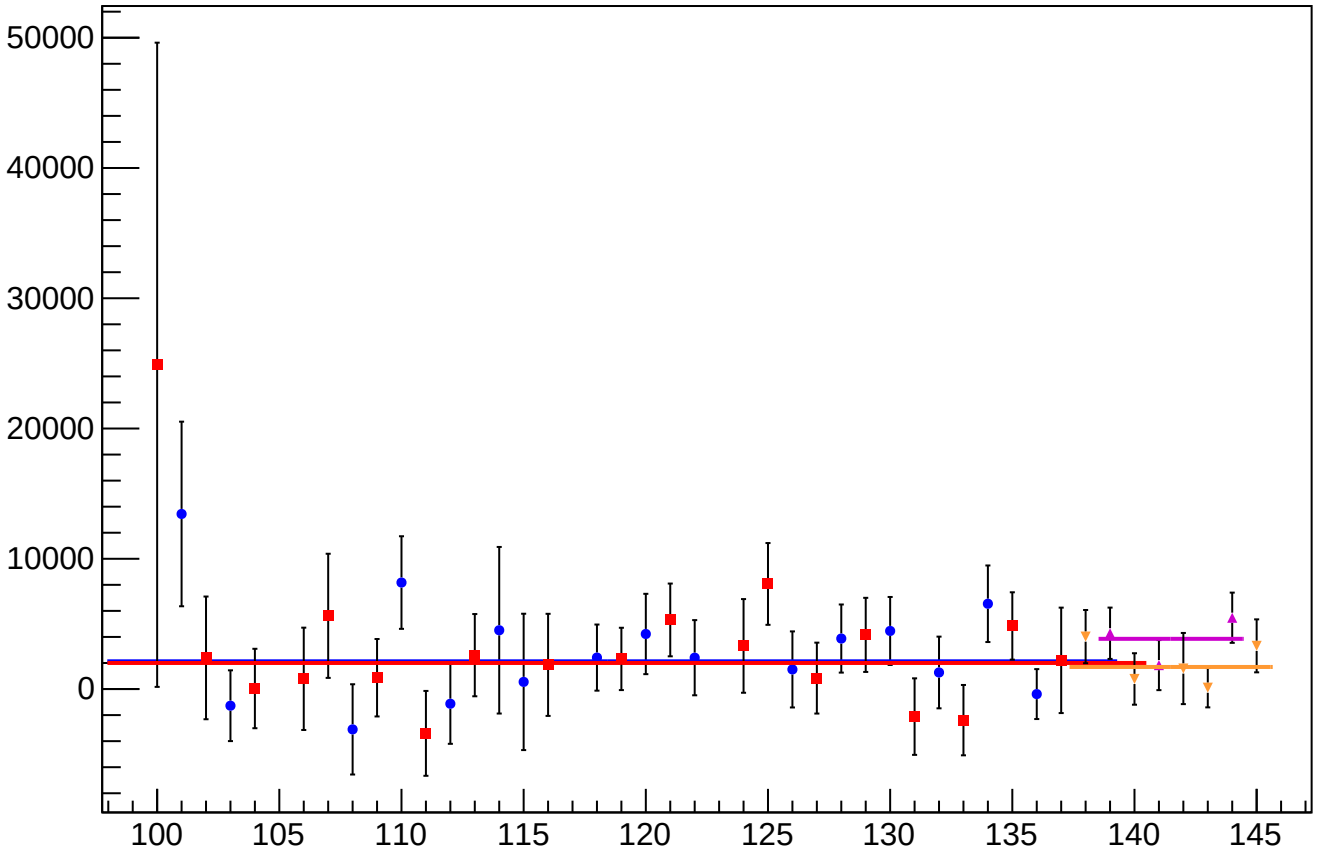
Left: 1084.934+/-0.315 $\chi^2$/NDF: 437861.5/7

Right: 603.000+/-0.120 $\chi^2$/NDF: 3491409.7/34

In: 657.218+/-0.158 $\chi^2$/NDF:2184294.5/18

Out: 671.134+/-0.159 $\chi^2$/NDF:3791113.0/23

All: 664.163+/-0.112 $\chi^2$/NDF: 5979263.8/42




Right In: 2128.746+/-746.242 $\chi^2$/NDF: 16.5/15

Left Out: 1694.893+/-873.595 $\chi^2$/NDF:3.3/4

Right Out: 2002.218+/-737.195 $\chi^2$/NDF: 16.7/18

Left In: 3854.728+/-1119.820 $\chi^2$/NDF:1.9/2

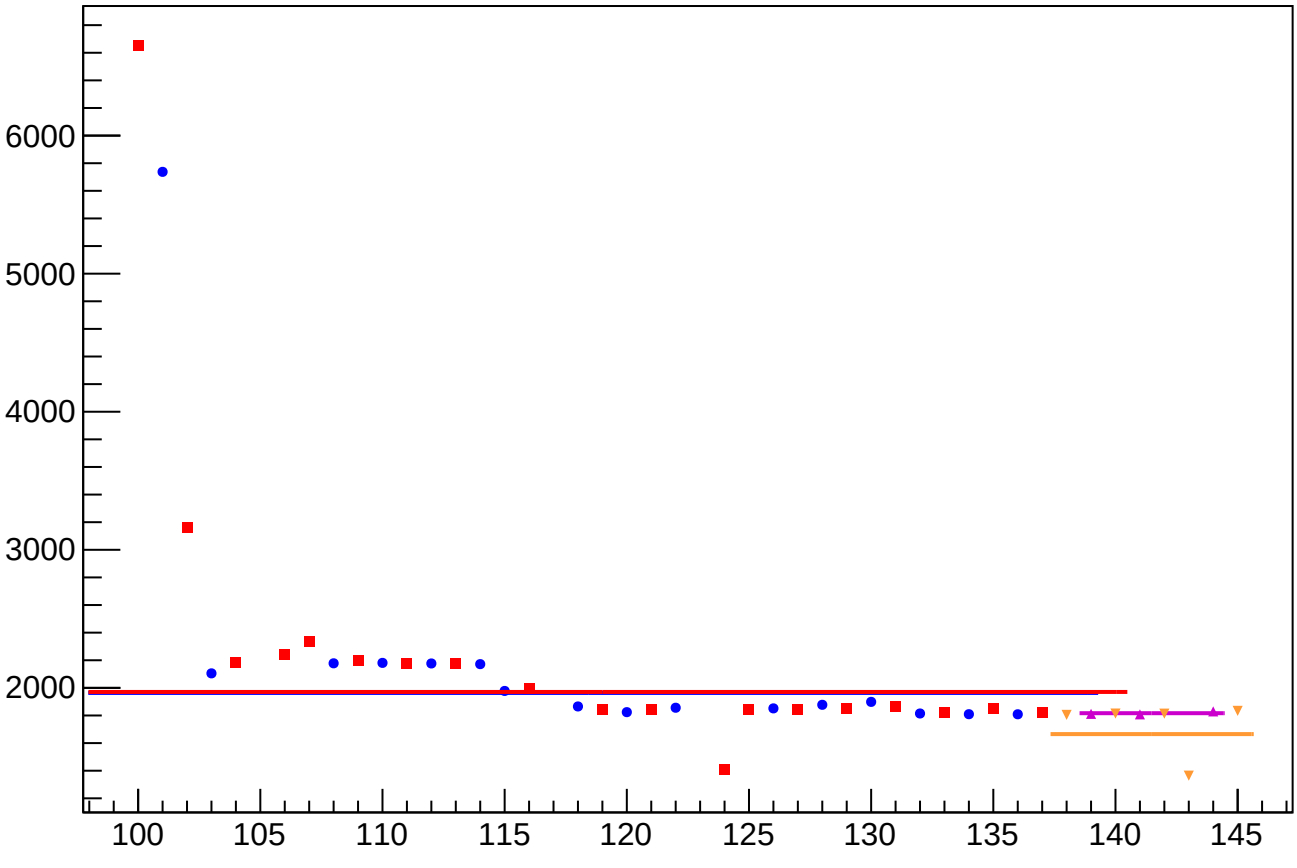
Left: 2512.038+/-688.791 $\chi^2$/NDF: 7.4/7

Right: 2064.710+/-524.445 $\chi^2$/NDF: 33.3/34

In: 2659.518+/-620.989 $\chi^2$/NDF:20.0/18

Out: 1874.394+/-563.400 $\chi^2$/NDF:20.1/23

All: 2228.871+/-417.262 $\chi^2$/NDF: 41.0/42




Right In: 1963.415+/-0.528 $\chi^2$/NDF: 640253.8/15

Left Out: 1665.169+/-0.618 $\chi^2$/NDF:119632.1/4

Right Out: 1970.459+/-0.521 $\chi^2$/NDF: 345131.7/18

Left In: 1816.608+/-0.792 $\chi^2$/NDF:141.4/2

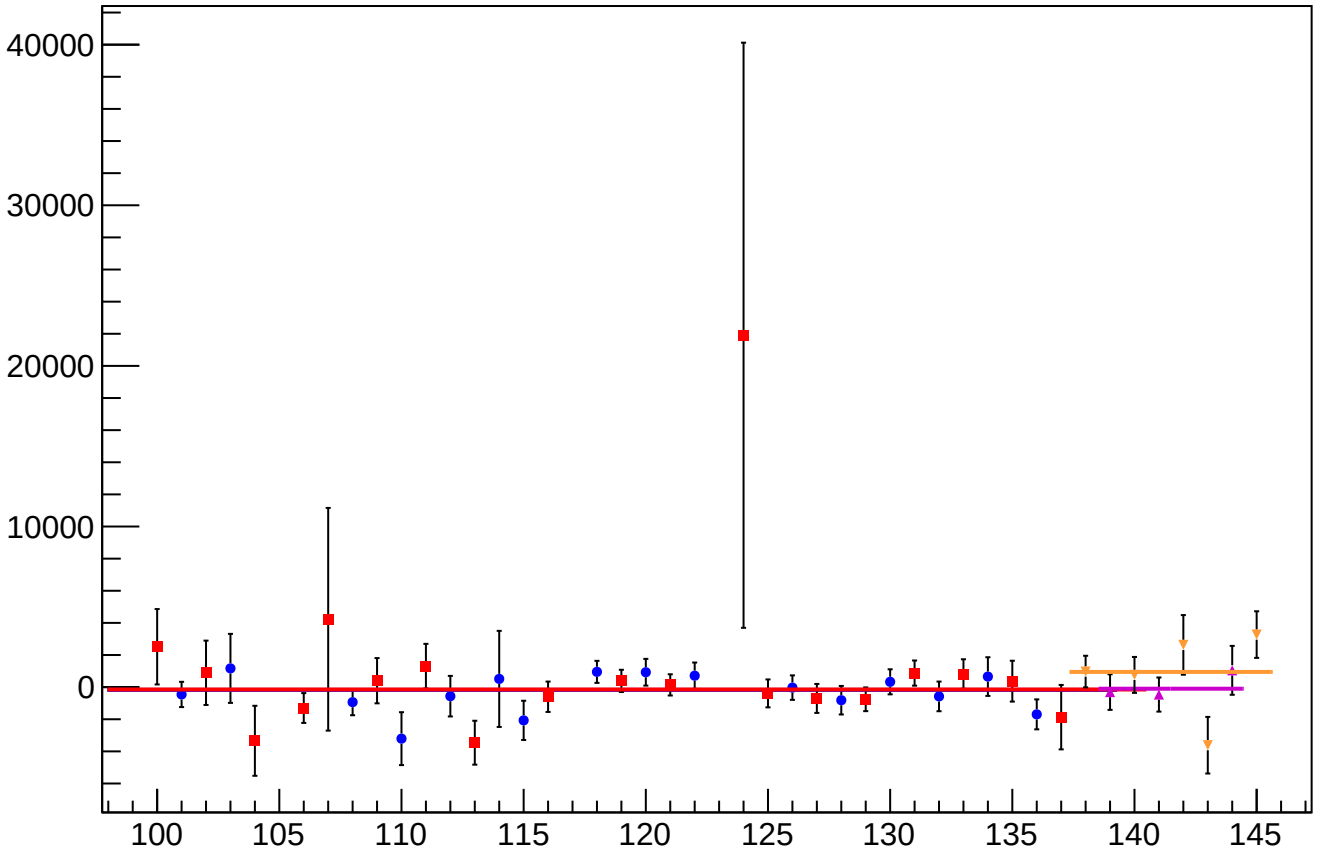
Left: 1722.464+/-0.487 $\chi^2$/NDF: 142511.9/7

Right: 1966.980+/-0.371 $\chi^2$/NDF: 985475.7/34

In: 1918.269+/-0.439 $\chi^2$/NDF:664198.5/18

Out: 1843.482+/-0.398 $\chi^2$/NDF:607424.6/23

All: 1877.247+/-0.295 $\chi^2$/NDF: 1287534.0/42




Right In: -170.773+/-236.912 $\chi^2$/NDF: 17.2/15

Left Out: 946.949+/-585.068 $\chi^2$/NDF:10.1/4

Right Out: -147.489+/-242.847 $\chi^2$/NDF: 20.1/18

Left In: -98.087+/-684.669 $\chi^2$/NDF:0.7/2

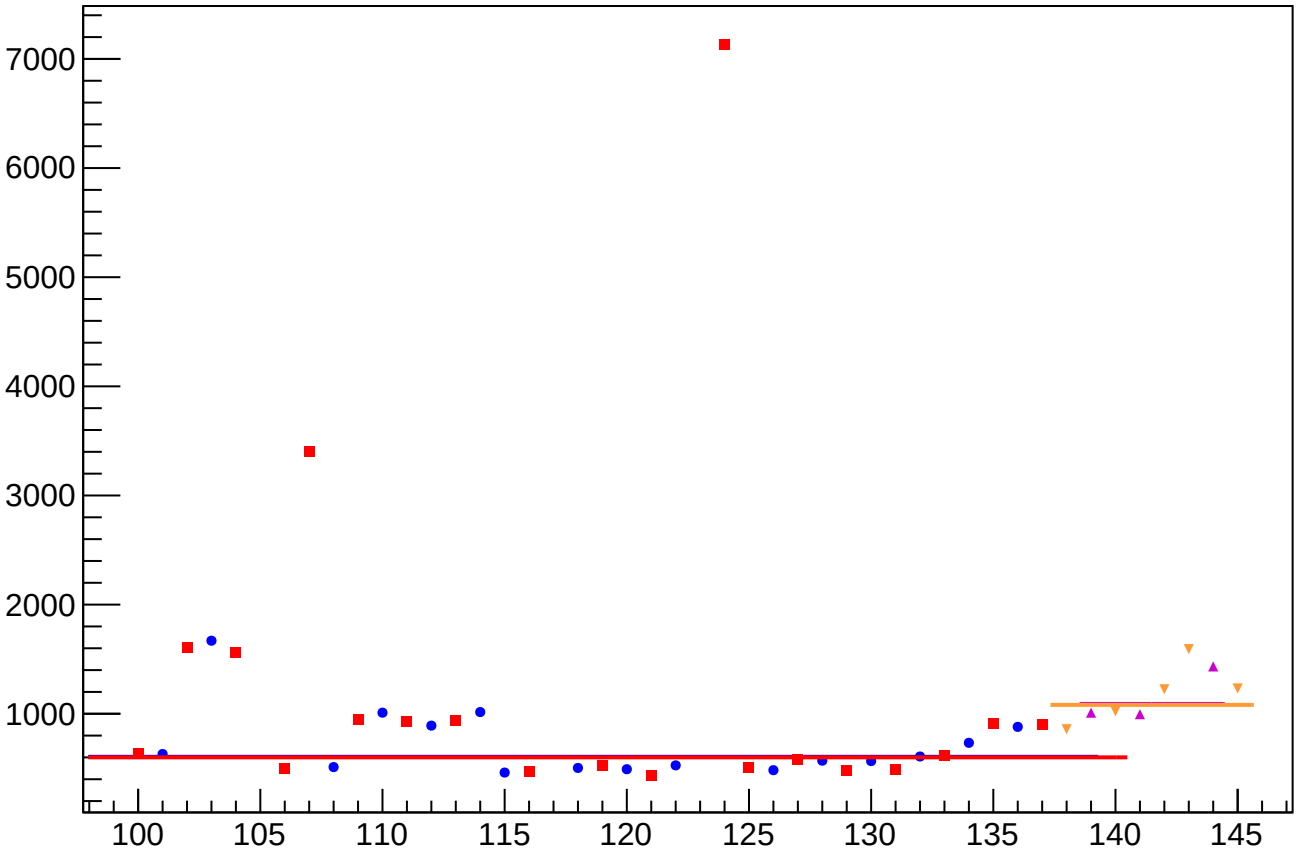
Left: 505.905+/-444.791 $\chi^2$/NDF: 12.2/7

Right: -159.419+/-169.581 $\chi^2$/NDF: 37.3/34

In: -163.001+/-223.887 $\chi^2$/NDF:18.0/18

Out: 13.358+/-224.293 $\chi^2$/NDF:33.2/23

All: -74.981+/-158.456 $\chi^2$/NDF: 51.5/42




Right In: 605.429+/-0.168 $\chi^2$/NDF: 1162462.4/15

Left Out: 1081.418+/-0.414 $\chi^2$/NDF:309612.4/4

Right Out: 600.446+/-0.172 $\chi^2$/NDF: 2328531.9/18

Left In: 1089.752+/-0.484 $\chi^2$/NDF:128079.3/2

Left: 1084.935+/-0.315 $\chi^2$/NDF: 437862.9/7

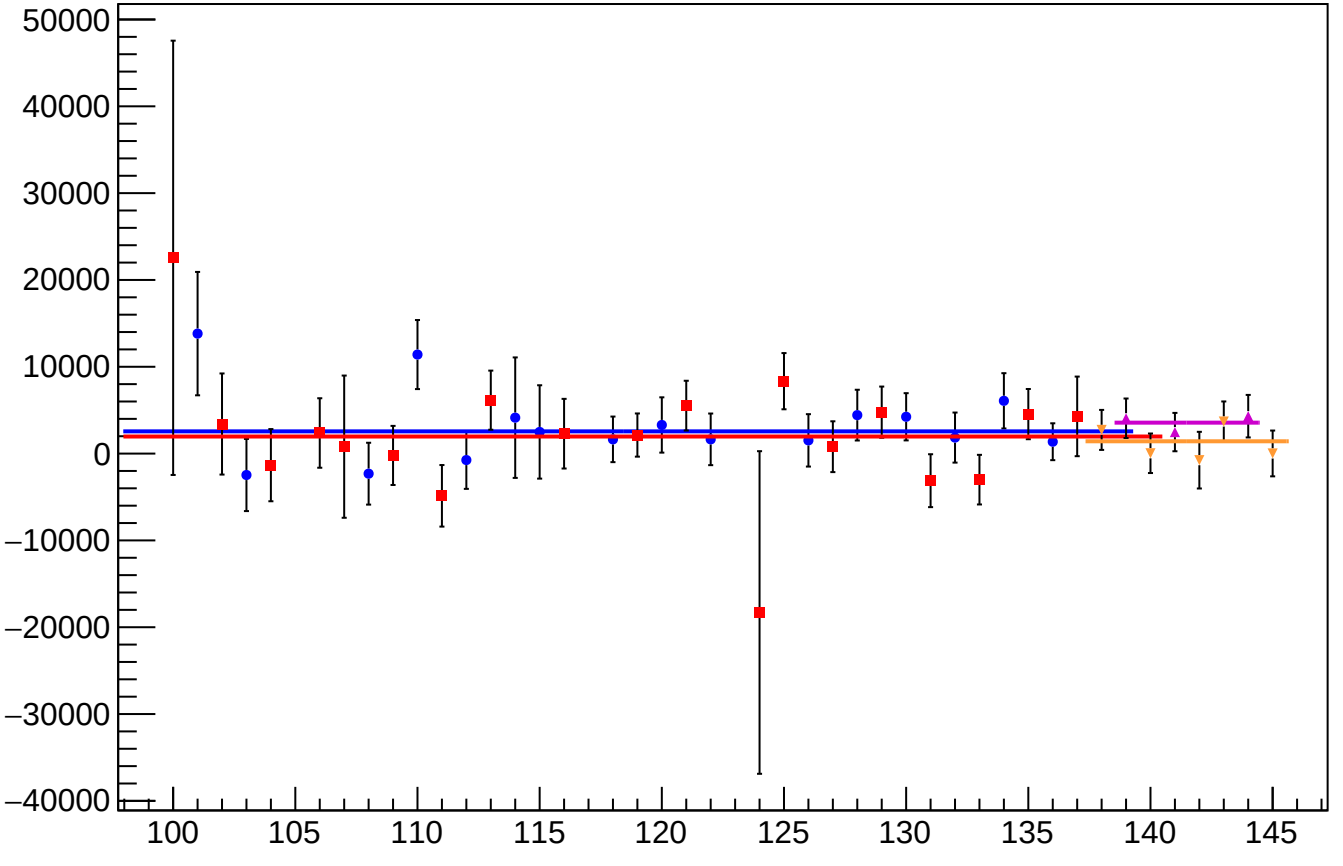
Right: 602.999+/-0.120 $\chi^2$/NDF: 3491425.6/34

In: 657.217+/-0.158 $\chi^2$/NDF:2184309.0/18

Out: 671.133+/-0.159 $\chi^2$/NDF:3791127.6/23

All: 664.162+/-0.112 $\chi^2$/NDF: 5979293.2/42

# asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2560.971+/-809.658 $\chi^2$/NDF: 14.6/15

Left Out: 1417.246+/-1113.894 $\chi^2$/NDF:2.4/4

Right Out: 1966.731+/-818.839 $\chi^2$/NDF: 21.6/18

Left In: 3563.128+/-1330.304 $\chi^2$/NDF:0.4/2

Left: 2301.668+/-854.039 $\chi^2$/NDF: 4.3/7

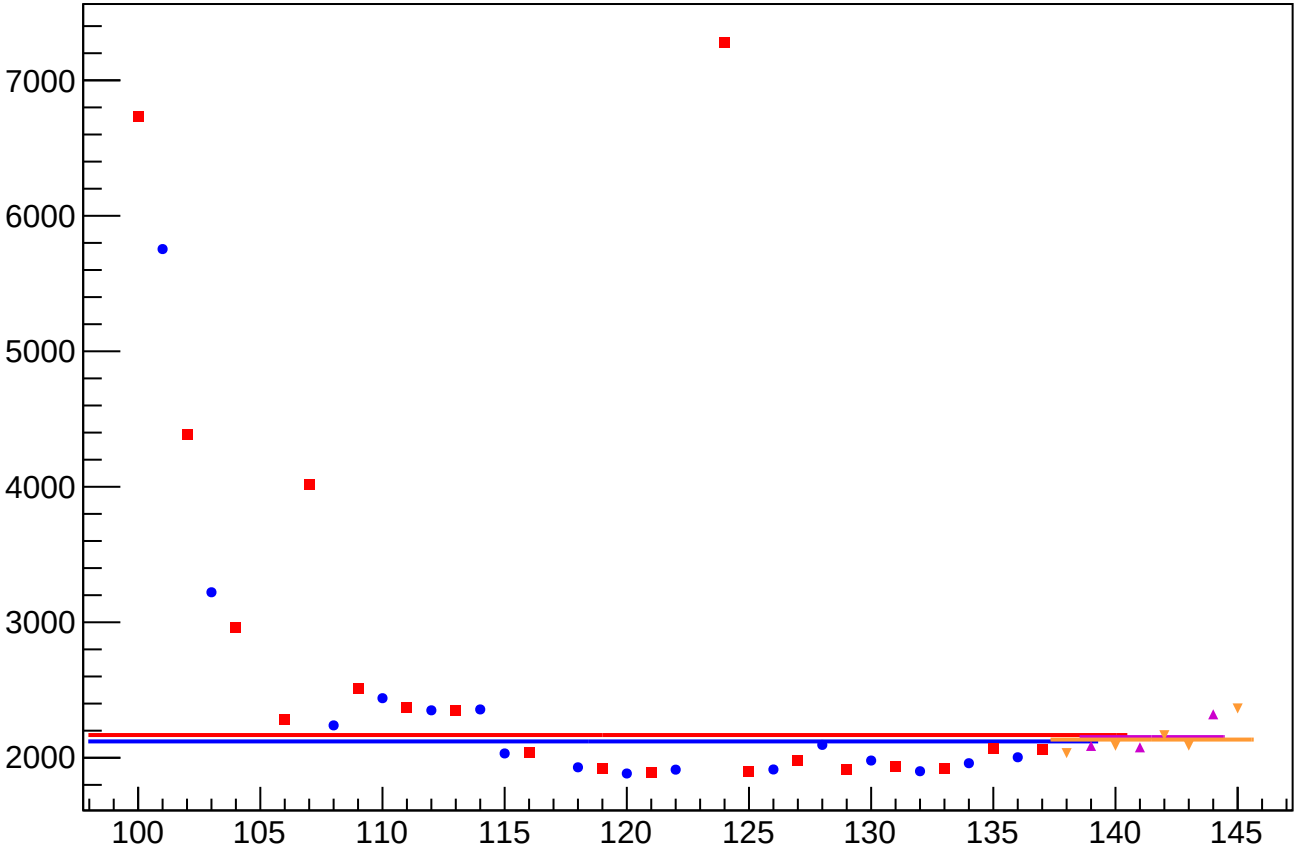
Right: 2267.201+/-575.733 $\chi^2$/NDF: 36.5/34

In: 2831.854+/-691.630 $\chi^2$/NDF:15.4/18

Out: 1773.964+/-659.755 $\chi^2$/NDF:24.1/23

All: 2277.970+/-477.388 $\chi^2$/NDF: 40.8/42

# asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 2120.778+/-0.573 $\chi^2$/NDF: 759969.1/15

Left Out: 2134.408+/-0.788 $\chi^2$/NDF:20668.8/4

Right Out: 2167.840+/-0.579 $\chi^2$/NDF: 823925.5/18

Left In: 2152.650+/-0.941 $\chi^2$/NDF:13405.9/2

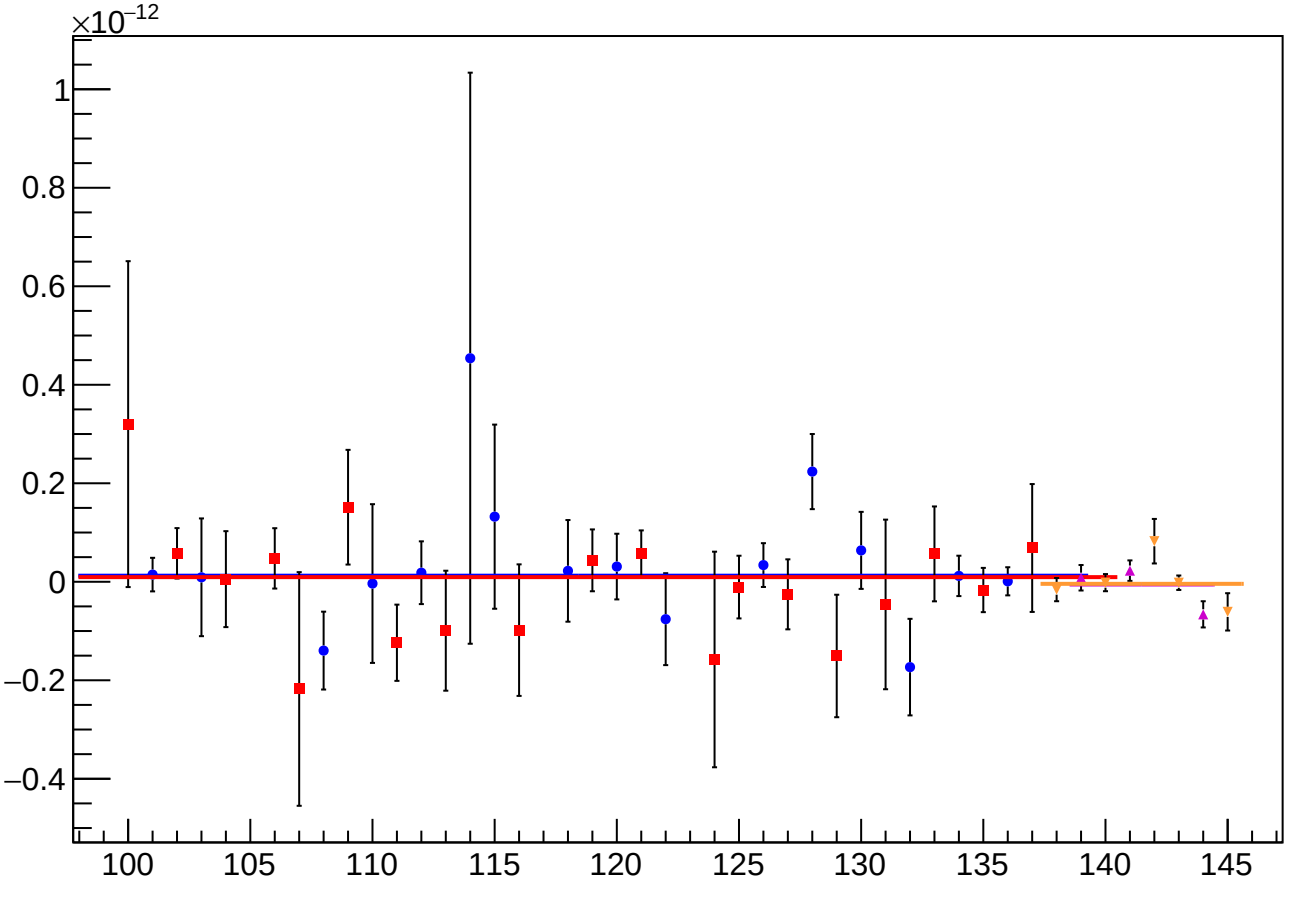
Left: 2141.926+/-0.604 $\chi^2$/NDF: 34295.7/7

Right: 2144.044+/-0.407 $\chi^2$/NDF: 1587235.2/34

In: 2129.393+/-0.489 $\chi^2$/NDF:774212.7/18

Out: 2156.111+/-0.467 $\chi^2$/NDF:845763.9/23

All: 2143.382+/-0.338 $\chi^2$/NDF: 1621539.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:7.3/2

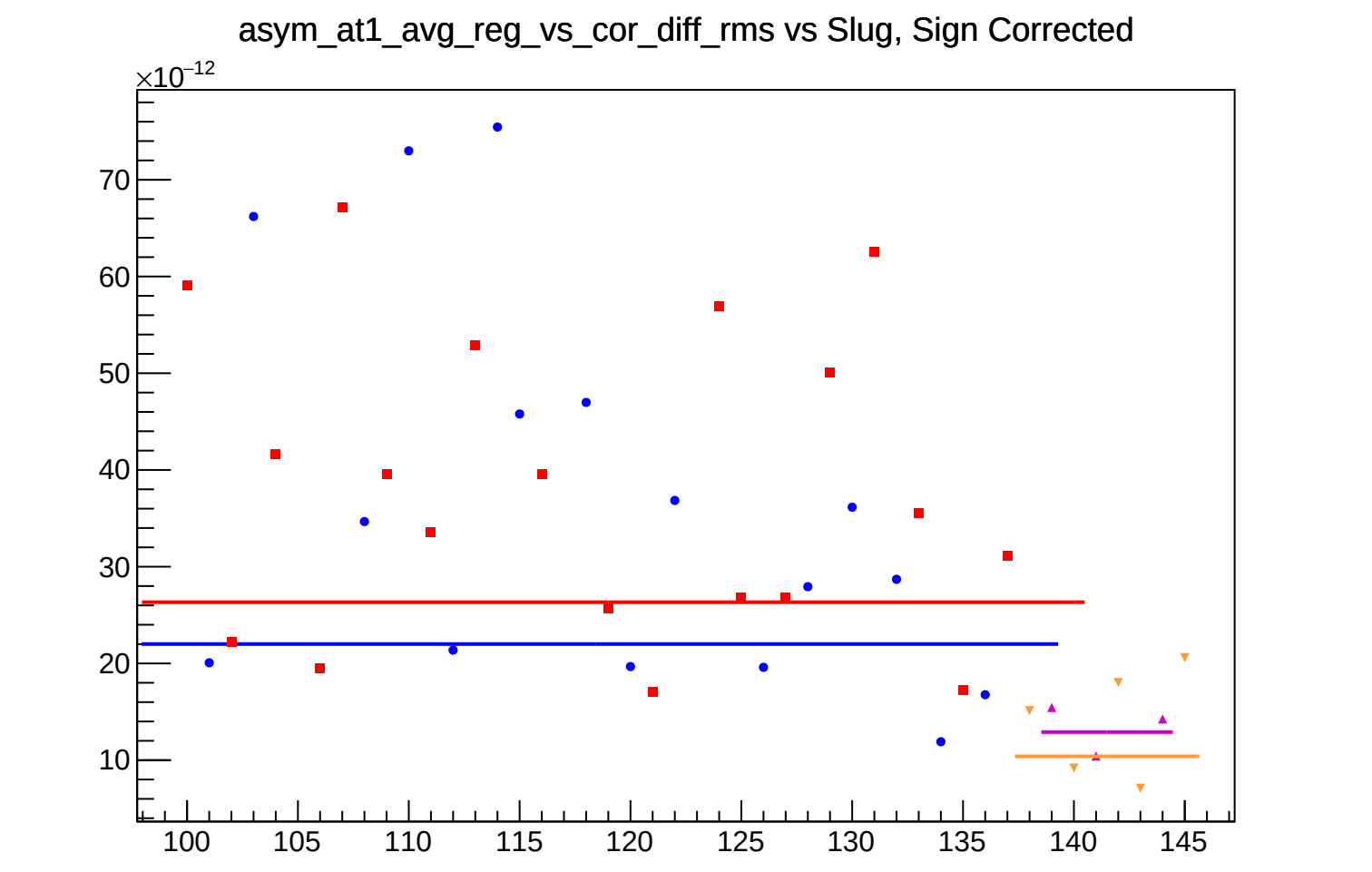
Left: -0.000+/-0.000 $\chi^2$/NDF: 13.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 46.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1032604.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:392882.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 705211.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:52887.7/2

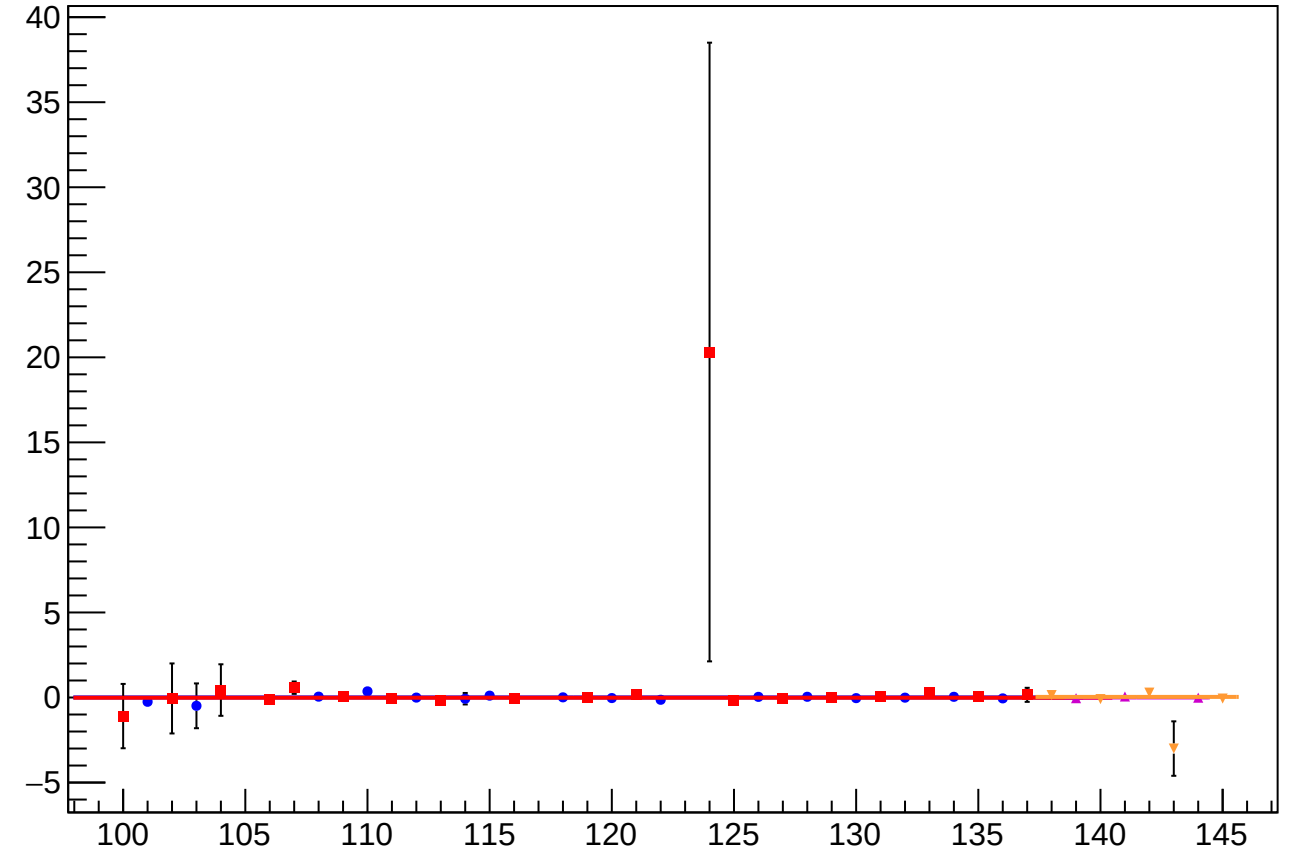
Left: 0.000+/-0.000 $\chi^2$/NDF: 490062.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 1806874.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:1491044.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2316143.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 3930737.9/42




Right In: 0.004+/-0.027 $\chi^2$/NDF: 11.4/15

Left Out: 0.035+/-0.054 $\chi^2$/NDF:10.1/4

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: 0.002+/-0.047 $\chi^2$/NDF:1.0/2

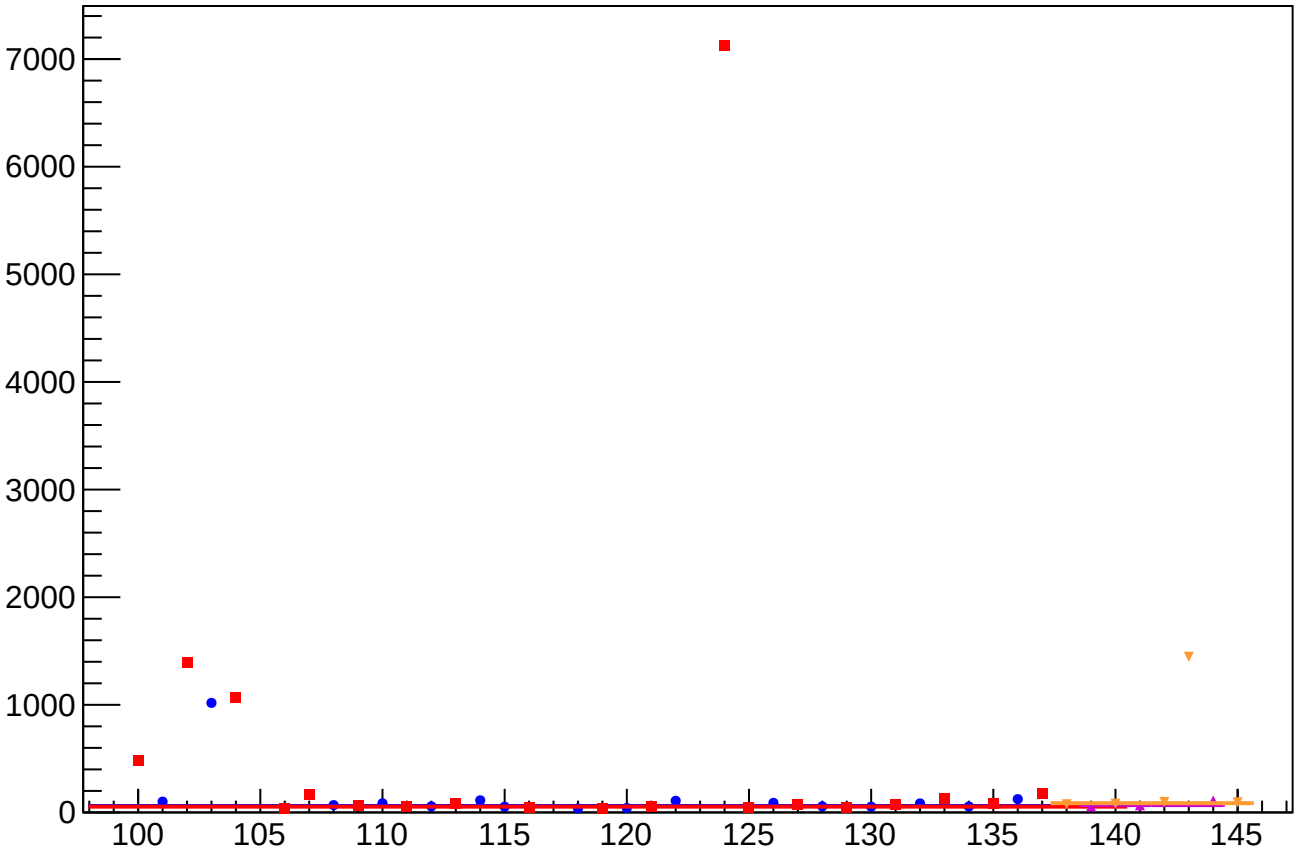
Left: 0.016+/-0.035 $\chi^2$/NDF: 11.3/7

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: 0.004+/-0.023 $\chi^2$/NDF:12.4/18

Out: -0.004+/-0.023 $\chi^2$/NDF:28.4/23

All: -0.000+/-0.016 $\chi^2$/NDF: 40.8/42




Right In: 59.840+/-0.019 $\chi^2$/NDF: 2538867.4/15

Left Out: 86.046+/-0.038 $\chi^2$/NDF:1493985.3/4

Right Out: 54.249+/-0.018 $\chi^2$/NDF: 3521580.5/18

Left In: 68.512+/-0.033 $\chi^2$/NDF:313667.5/2

Left: 76.018+/-0.025 $\chi^2$/NDF: 1928507.6/7

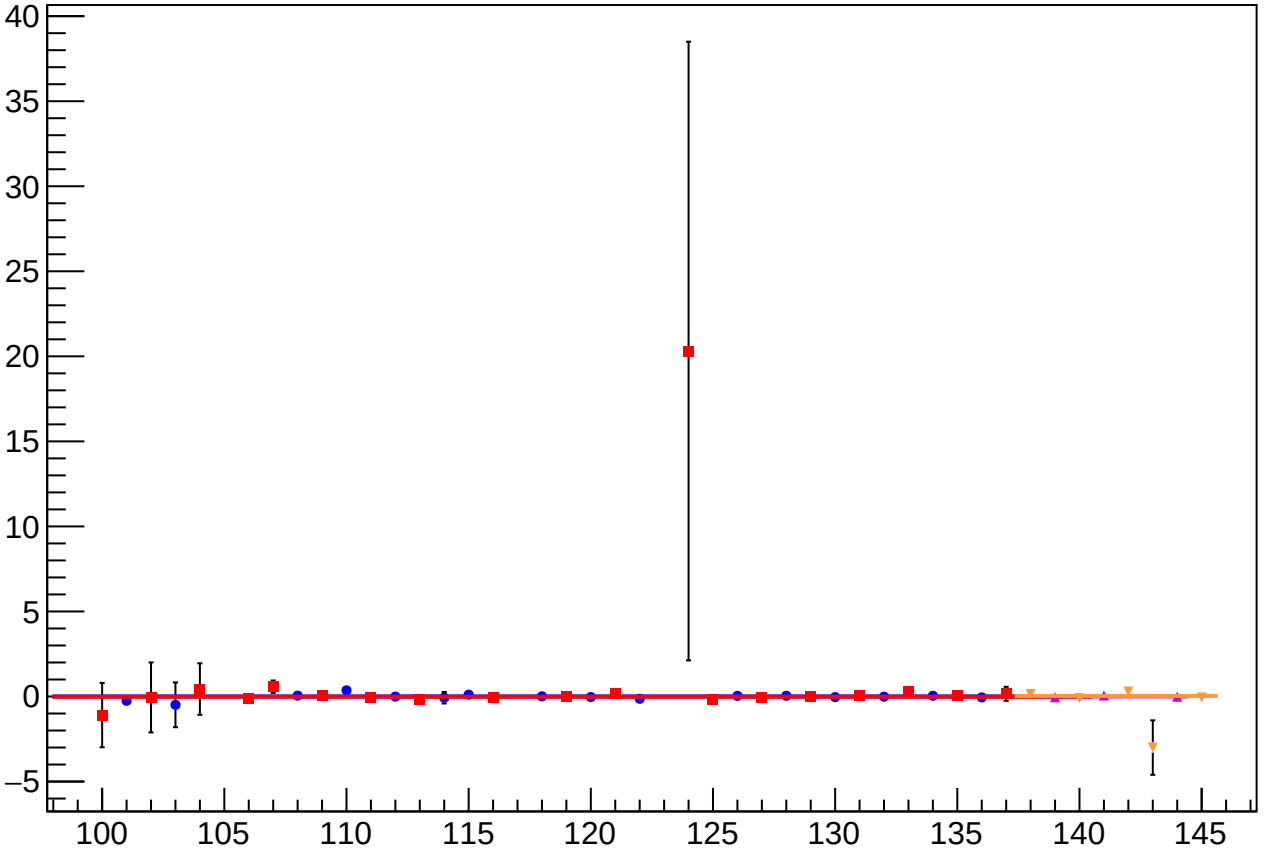
Right: 56.948+/-0.013 $\chi^2$/NDF: 6105751.4/34

In: 61.980+/-0.016 $\chi^2$/NDF:2904545.6/18

Out: 60.173+/-0.016 $\chi^2$/NDF:5581080.8/23

All: 61.080+/-0.012 $\chi^2$/NDF: 8491678.8/42

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: 0.035+/-0.054 $\chi^2$/NDF:10.1/4

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: 0.002+/-0.047 $\chi^2$/NDF:1.0/2

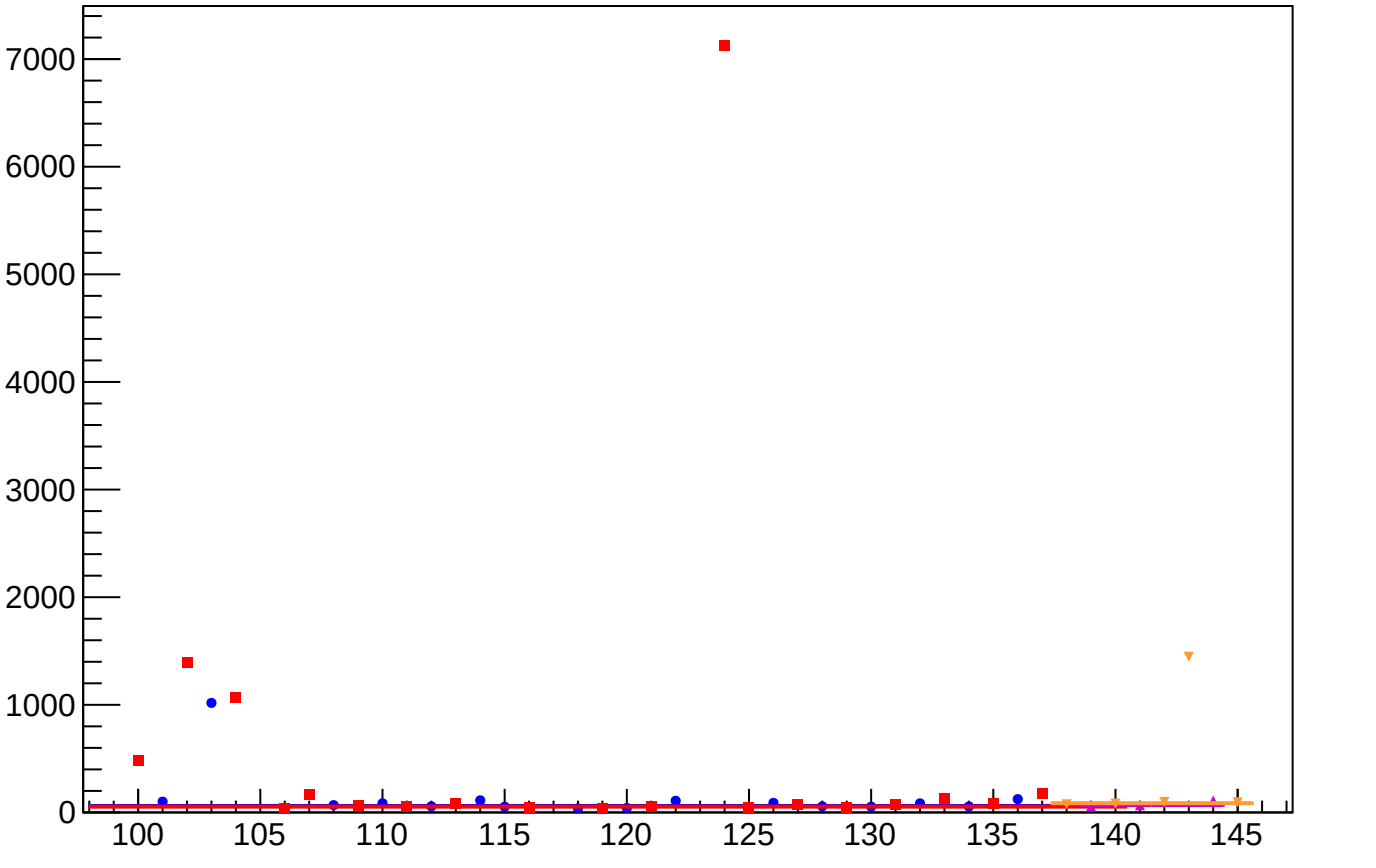
Left: 0.016+/-0.035 $\chi^2$/NDF: 11.3/7

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: 0.004+/-0.023 $\chi^2$/NDF:12.4/18

Out: -0.004+/-0.023 $\chi^2$/NDF:28.4/23

All: -0.000+/-0.016 $\chi^2$/NDF: 40.8/42




Right In: 59.840+/-0.019 $\chi^2$/NDF: 2538867.4/15

Left Out: 86.046+/-0.038 $\chi^2$/NDF:1493985.3/4

Right Out: 54.249+/-0.018 $\chi^2$/NDF: 3521580.5/18

Left In: 68.512+/-0.033 $\chi^2$/NDF:313667.5/2

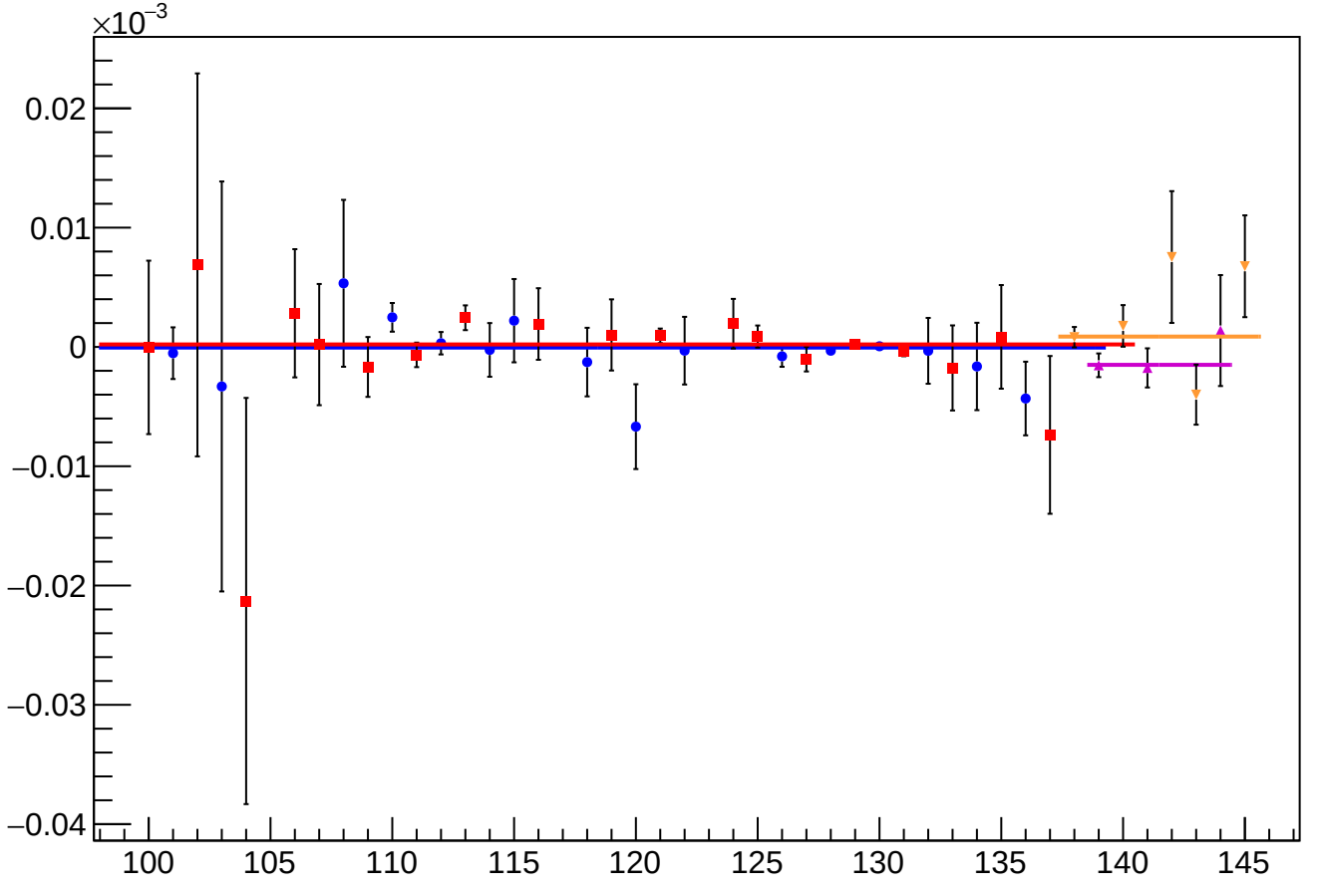
Left: 76.018+/-0.025 $\chi^2$/NDF: 1928507.6/7

Right: 56.948+/-0.013 $\chi^2$/NDF: 6105751.4/34

In: 61.980+/-0.016 $\chi^2$/NDF:2904545.6/18

Out: 60.173+/-0.016 $\chi^2$/NDF:5581080.8/23

All: 61.080+/-0.012 $\chi^2$/NDF: 8491678.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:7.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.4/2

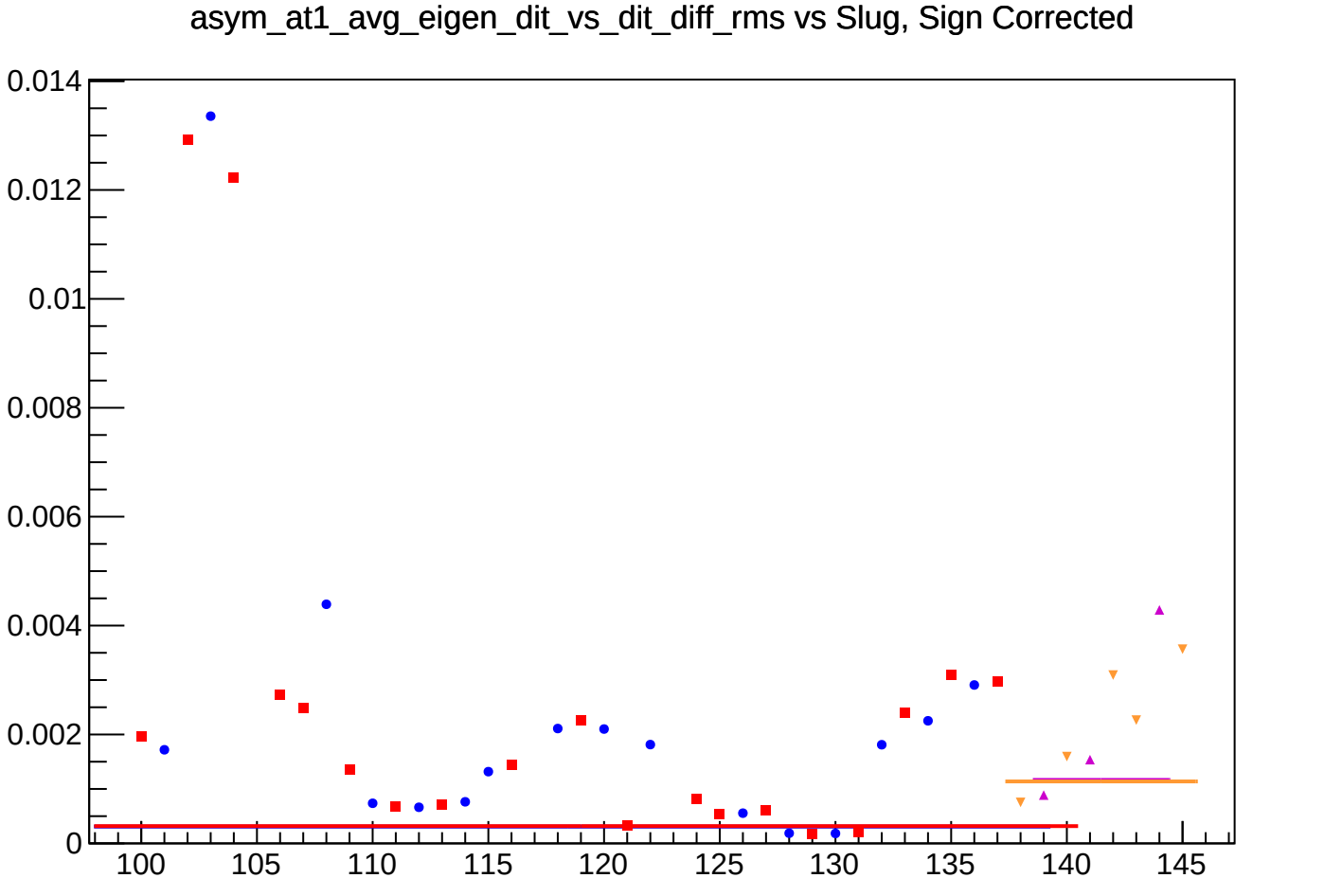
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 41.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8756212.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:1840146.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 8015537.3/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1161680.5/2

Left: 0.001+/-0.000 $\chi^2$/NDF: 3003116.2/7

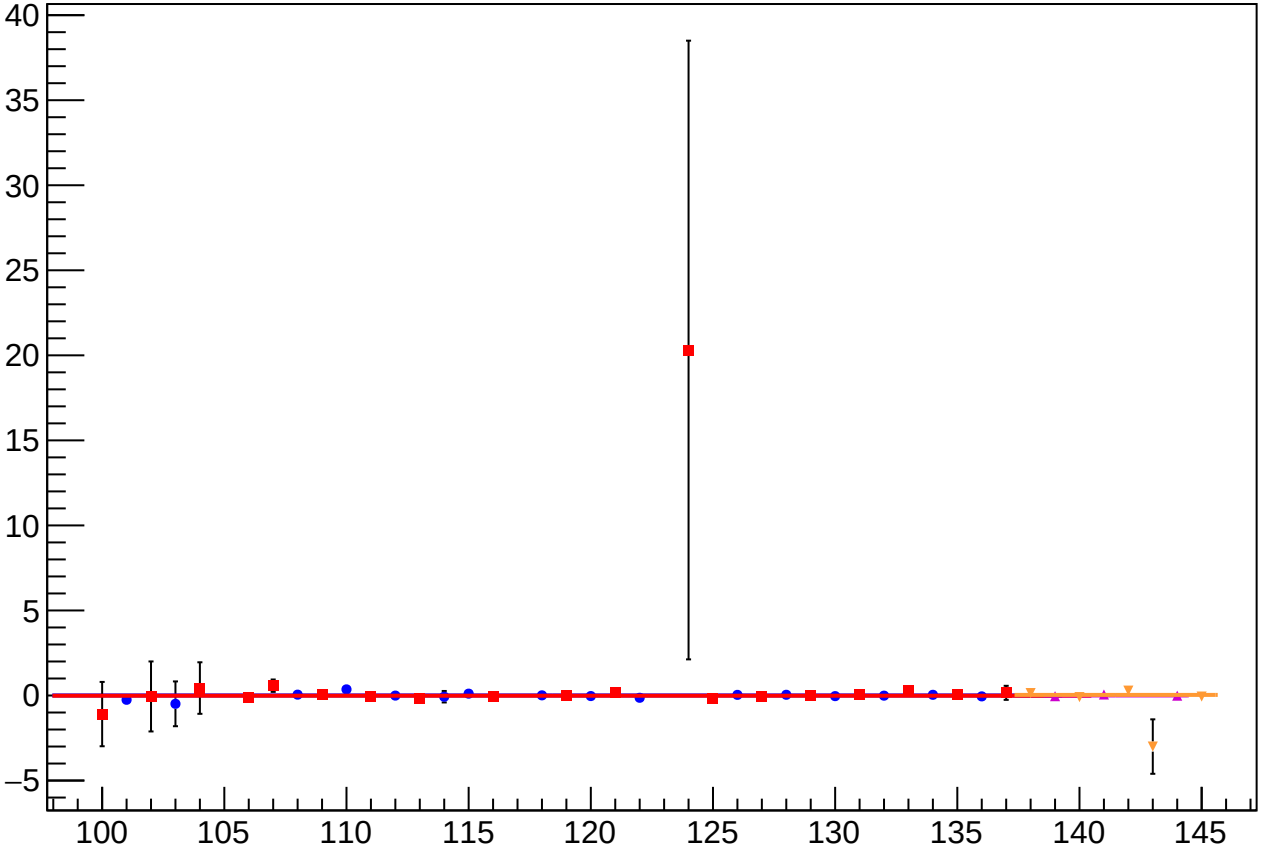
Right: 0.000+/-0.000 $\chi^2$/NDF: 16773891.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:11917465.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:12292326.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 24221680.7/42

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: 0.035+/-0.054 $\chi^2$/NDF:10.1/4

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: 0.002+/-0.047 $\chi^2$/NDF:1.0/2

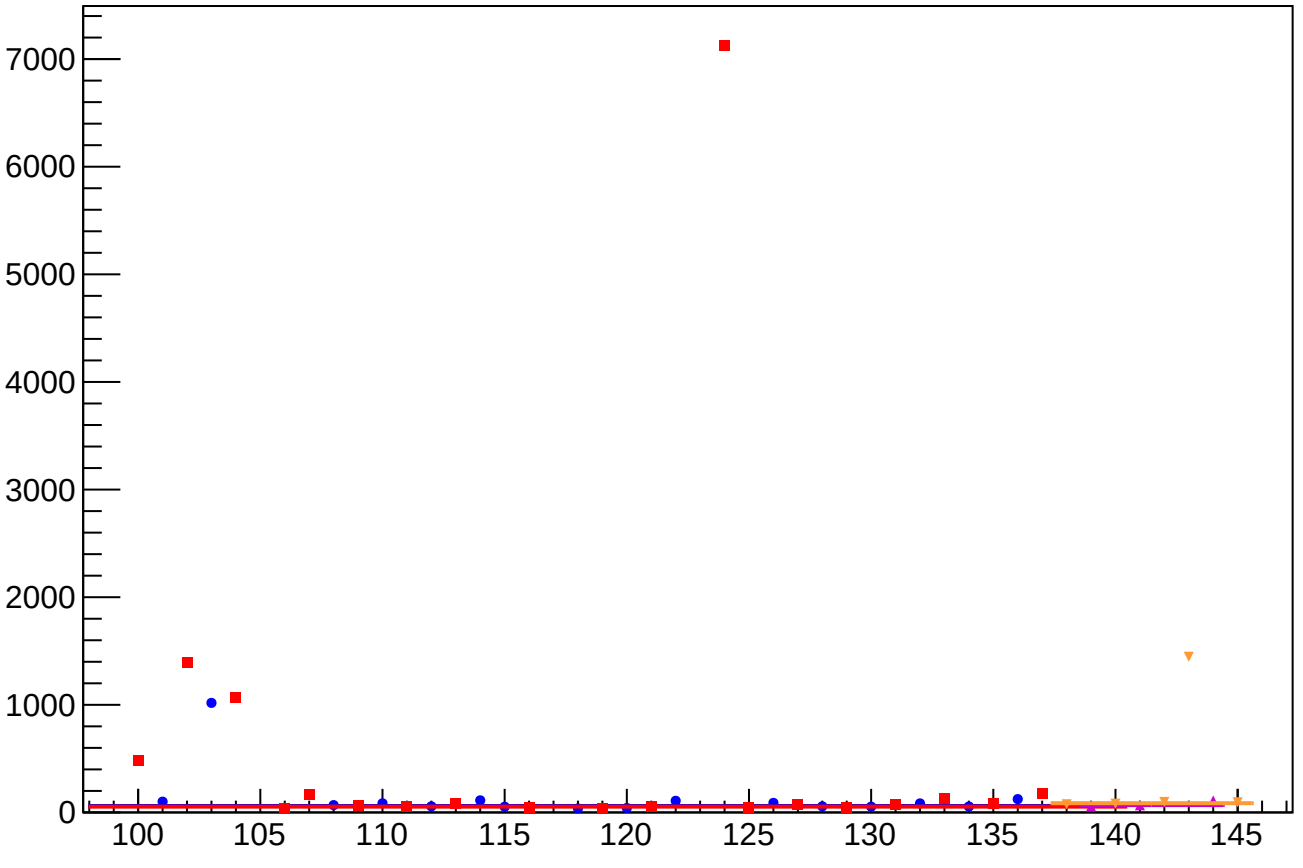
Left: 0.016+/-0.035 $\chi^2$/NDF: 11.3/7

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: 0.004+/-0.023 $\chi^2$/NDF:12.4/18

Out: -0.004+/-0.023 $\chi^2$/NDF:28.4/23

All: -0.000+/-0.016 $\chi^2$/NDF: 40.8/42




Right In: 59.839+/-0.019 $\chi^2$/NDF: 2538881.2/15

Left Out: 86.045+/-0.038 $\chi^2$/NDF:1493985.0/4

Right Out: 54.248+/-0.018 $\chi^2$/NDF: 3521640.4/18

Left In: 68.512+/-0.033 $\chi^2$/NDF:313672.2/2

Left: 76.018+/-0.025 $\chi^2$/NDF: 1928511.7/7

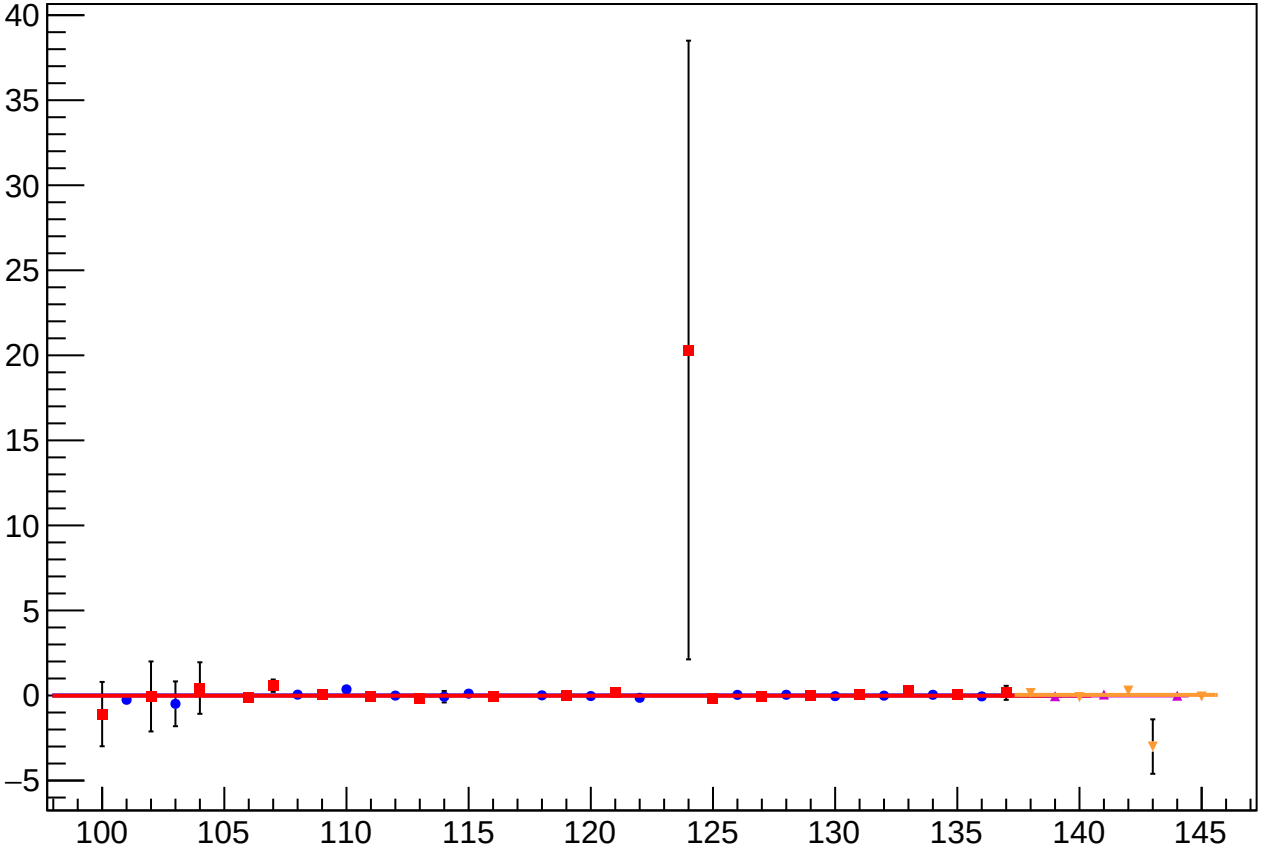
Right: 56.947+/-0.013 $\chi^2$/NDF: 6105839.5/34

In: 61.980+/-0.016 $\chi^2$/NDF:2904565.1/18

Out: 60.172+/-0.016 $\chi^2$/NDF:5581176.0/23

All: 61.080+/-0.012 $\chi^2$/NDF: 8491799.1/42

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: 0.035+/-0.054 $\chi^2$/NDF:10.1/4

Right Out: -0.013+/-0.026 $\chi^2$/NDF: 17.6/18

Left In: 0.002+/-0.047 $\chi^2$/NDF:1.0/2

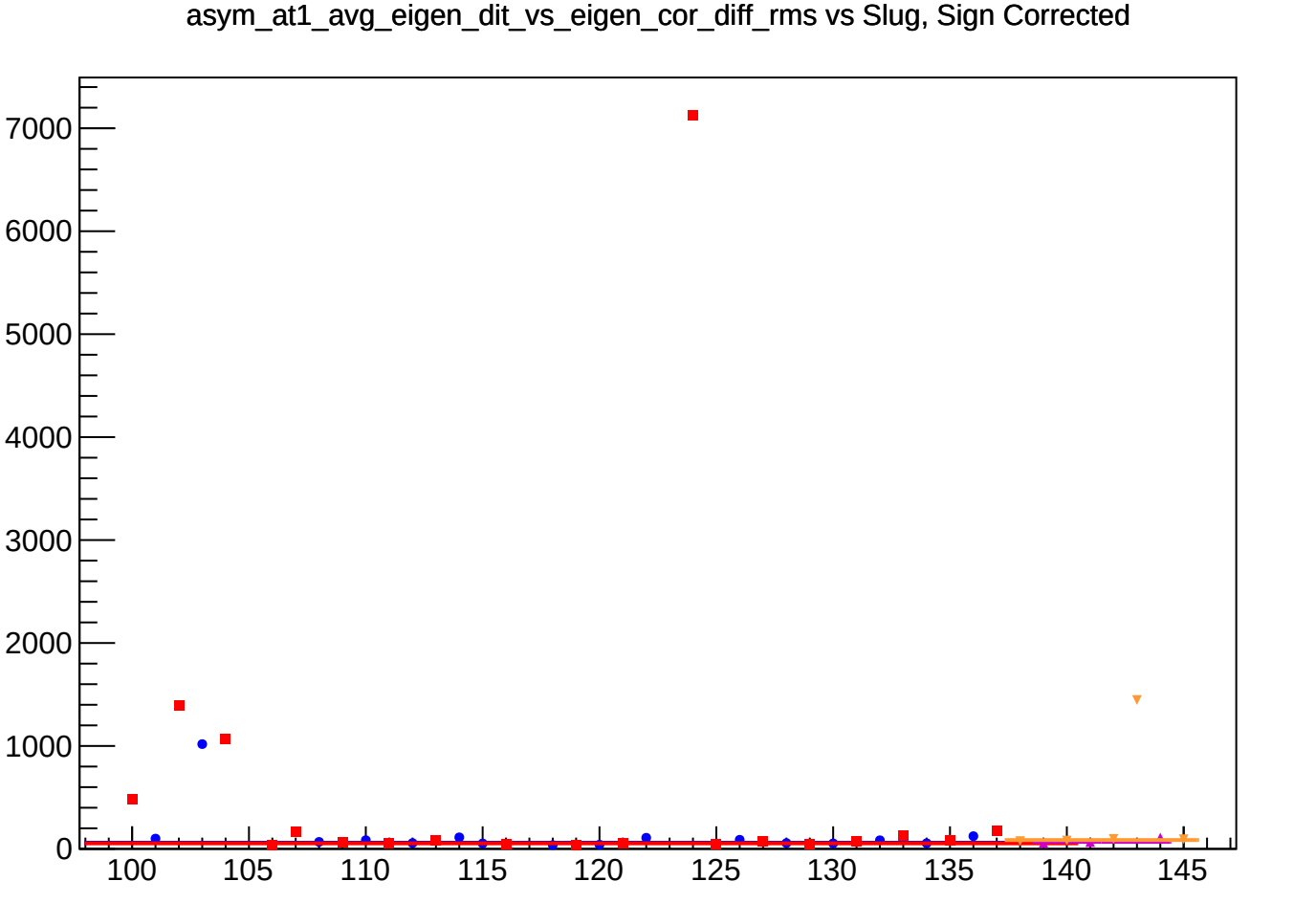
Left: 0.016+/-0.035 $\chi^2$/NDF: 11.3/7

Right: -0.005+/-0.019 $\chi^2$/NDF: 29.2/34

In: 0.004+/-0.023 $\chi^2$/NDF:12.4/18

Out: -0.004+/-0.023 $\chi^2$/NDF:28.4/23

All: -0.000+/-0.016 $\chi^2$/NDF: 40.8/42




Right In: 59.839+/-0.019 $\chi^2$/NDF: 2538881.2/15

Left Out: 86.045+/-0.038 $\chi^2$/NDF:1493985.0/4

Right Out: 54.248+/-0.018 $\chi^2$/NDF: 3521640.4/18

Left In: 68.512+/-0.033 $\chi^2$/NDF:313672.2/2

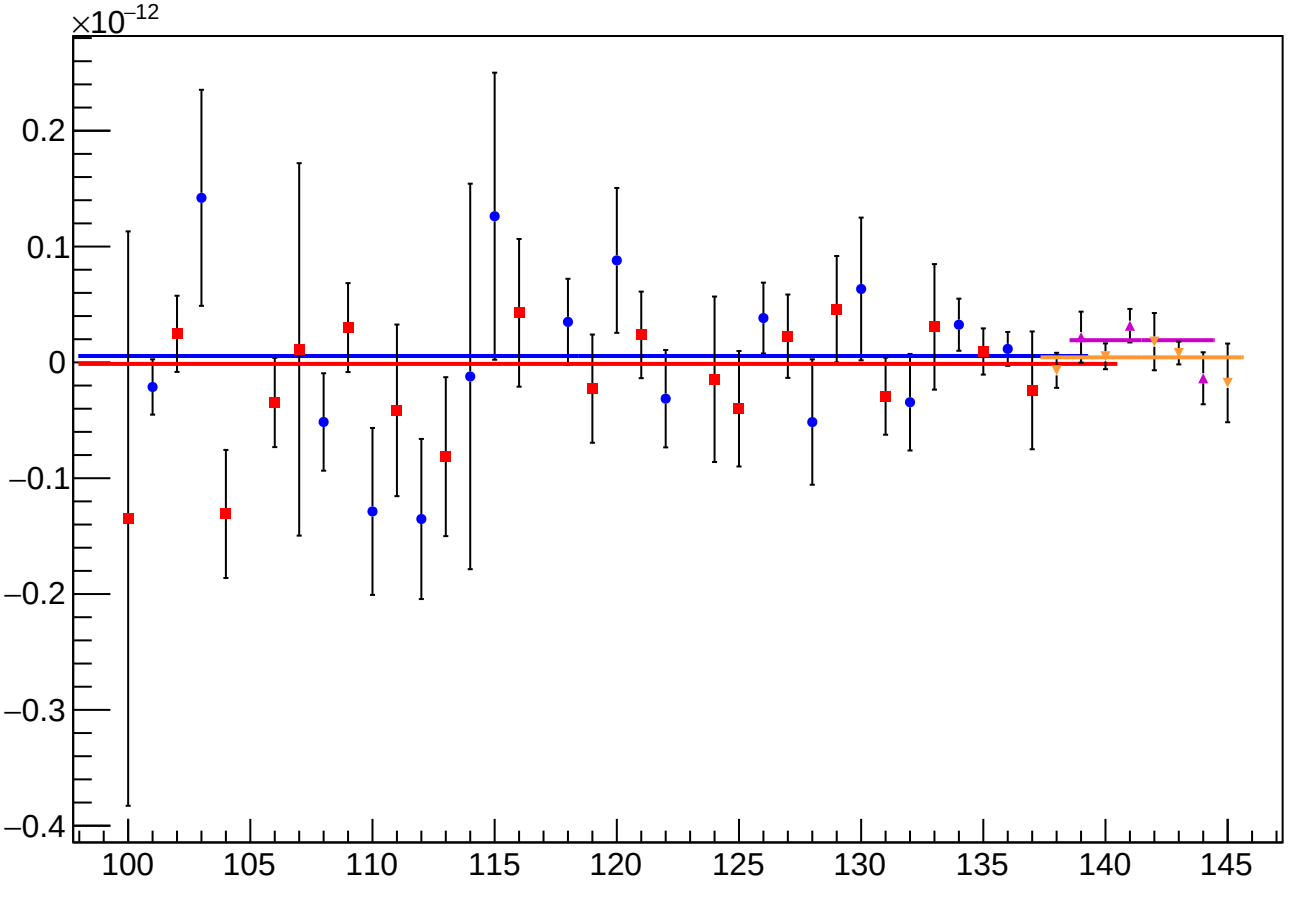
Left: 76.018+/-0.025 $\chi^2$/NDF: 1928511.7/7

Right: 56.947+/-0.013 $\chi^2$/NDF: 6105839.5/34

In: 61.980+/-0.016 $\chi^2$/NDF:2904565.1/18

Out: 60.172+/-0.016 $\chi^2$/NDF:5581176.0/23

All: 61.080+/-0.012 $\chi^2$/NDF: 8491799.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.4/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.9/2

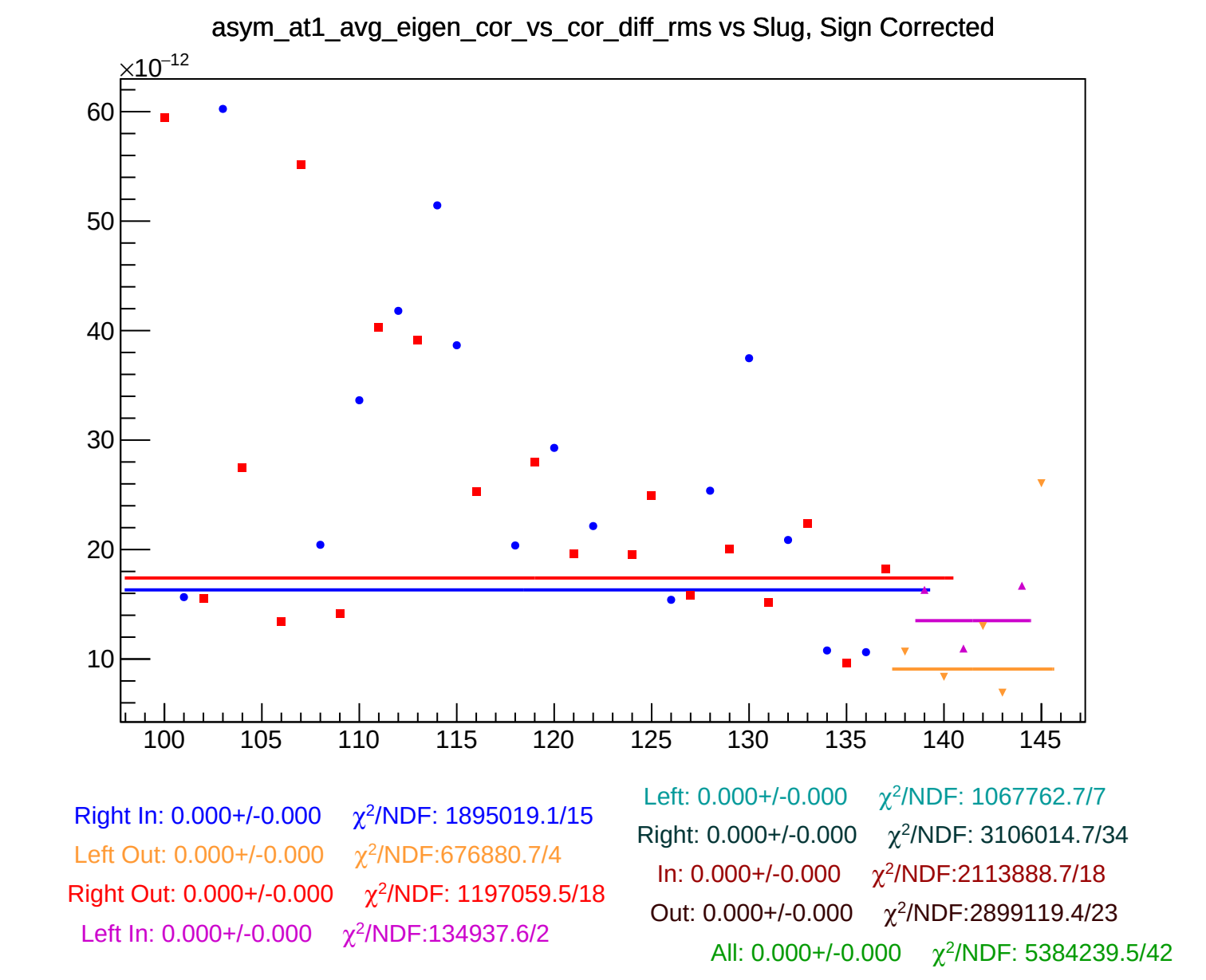
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.2/34

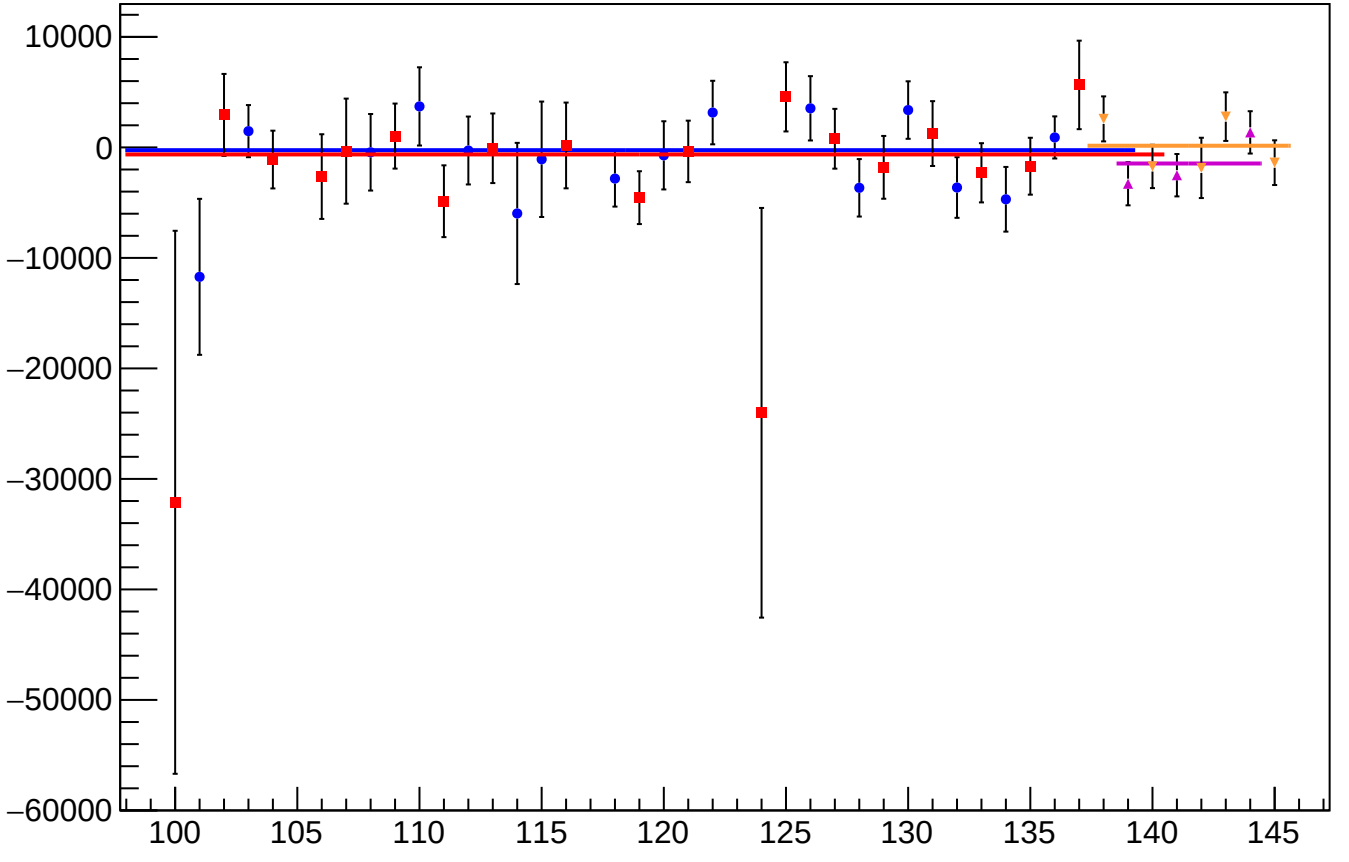
In: 0.000+/-0.000 $\chi^2$/NDF:26.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:16.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 43.4/42


asym_at1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1895019.1/15
Left Out: 0.000+/-0.000 χ²/NDF:676880.7/4
Right Out: 0.000+/-0.000 χ²/NDF: 1197059.5/18
Left In: 0.000+/-0.000 χ²/NDF:134937.6/2
Left: 0.000+/-0.000 χ²/NDF: 1067762.7/7
Right: 0.000+/-0.000 χ²/NDF: 3106014.7/34
In: 0.000+/-0.000 χ²/NDF:2113888.7/18
Out: 0.000+/-0.000 χ²/NDF:2899119.4/23
All: 0.000+/-0.000 χ²/NDF: 5384239.5/42

# reg_asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -251.297+/-735.111 $\chi^2$/NDF: 17.3/15

Left Out: 150.798+/-959.264 $\chi^2$/NDF:4.9/4

Right Out: -636.082+/-735.477 $\chi^2$/NDF: 15.9/18

Left In: -1456.193+/-1113.825 $\chi^2$/NDF:3.3/2

Left: -533.549+/-726.856 $\chi^2$/NDF: 9.4/7

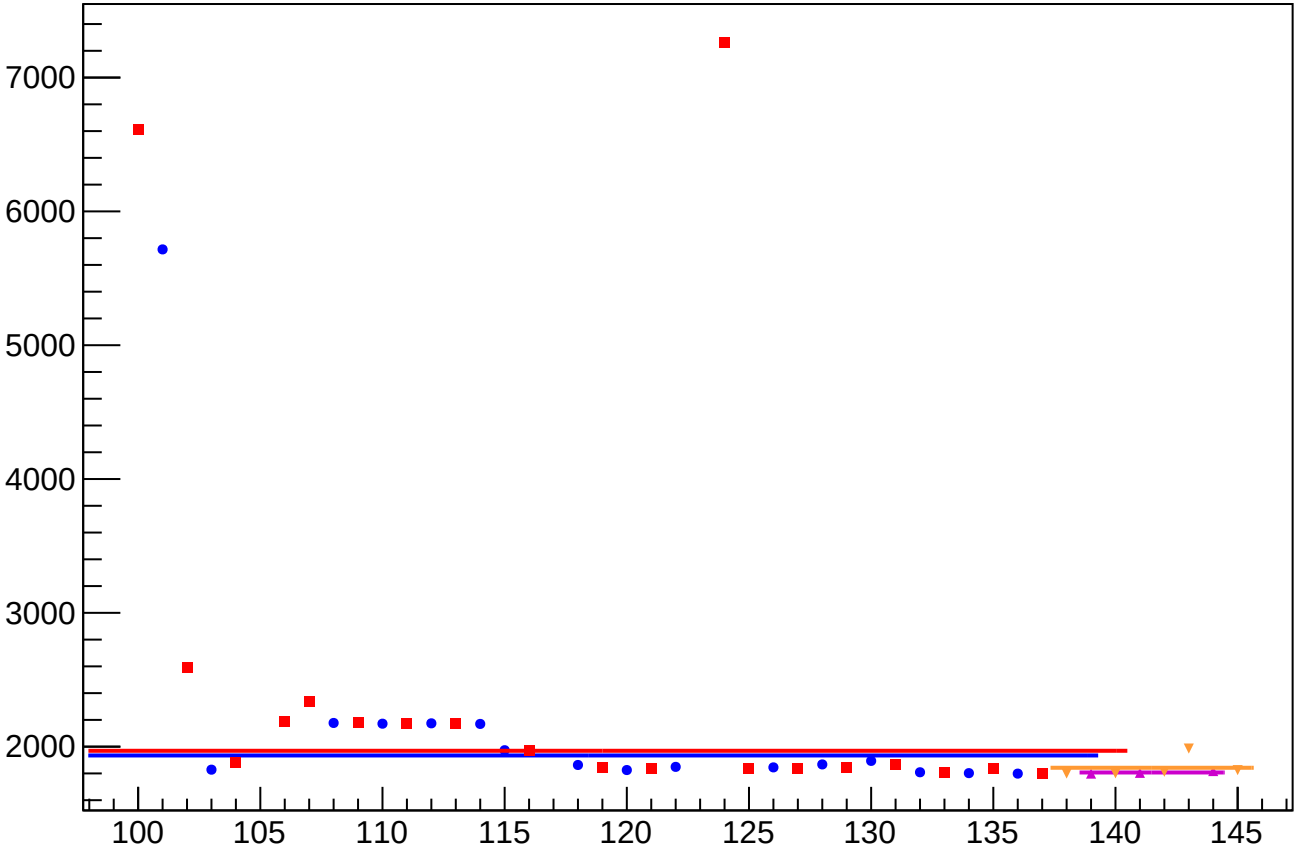
Right: -443.594+/-519.932 $\chi^2$/NDF: 33.3/34

In: -616.886+/-613.534 $\chi^2$/NDF:21.4/18

Out: -344.767+/-583.667 $\chi^2$/NDF:21.2/23

All: -474.042+/-422.880 $\chi^2$/NDF: 42.7/42

# reg_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639920.0/15

Left Out: 1842.301+/-0.678 $\chi^2$/NDF:10738.3/4

Right Out: 1969.204+/-0.520 $\chi^2$/NDF: 378378.8/18

Left In: 1807.079+/-0.788 $\chi^2$/NDF:102.3/2

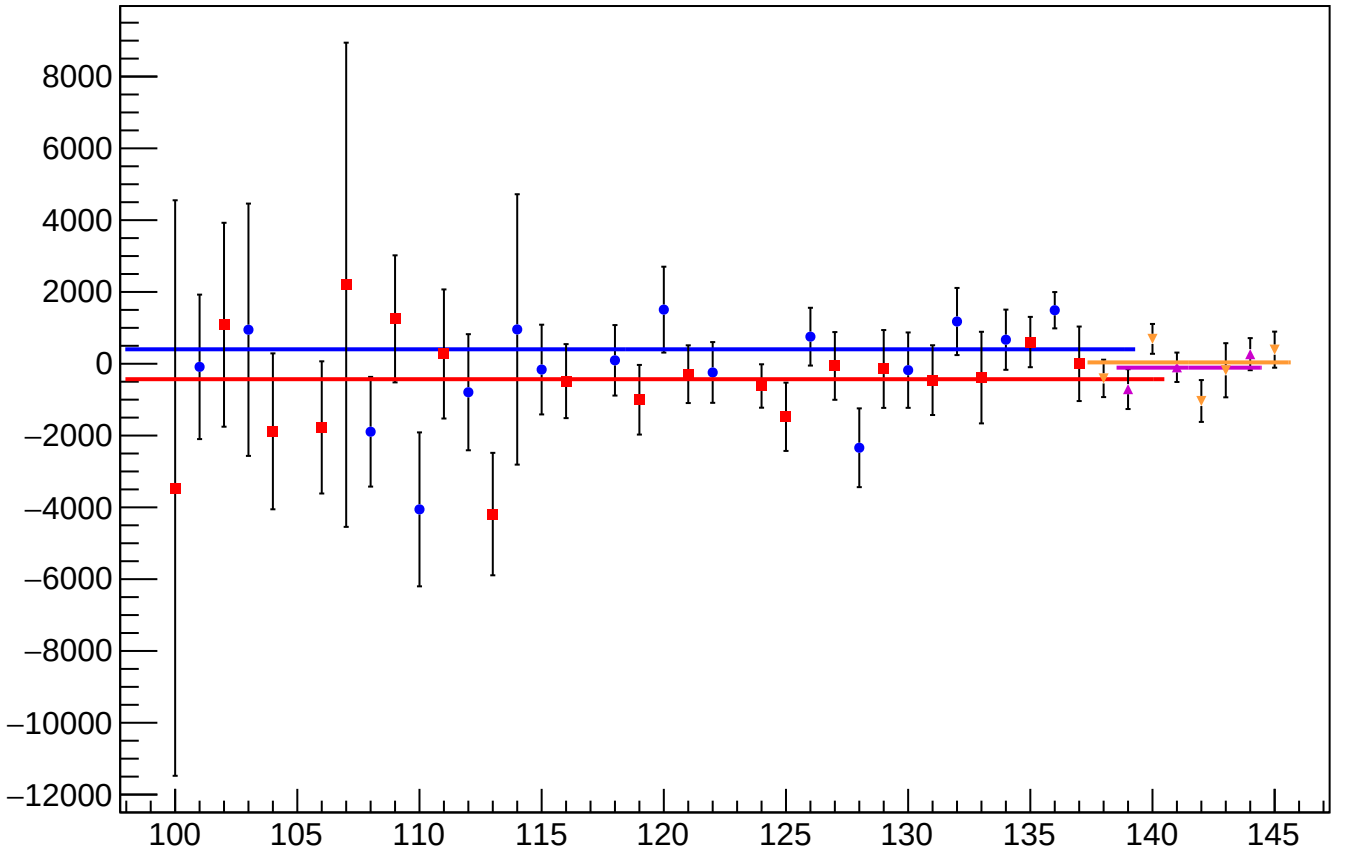
Left: 1827.301+/-0.514 $\chi^2$/NDF: 11988.8/7

Right: 1951.702+/-0.368 $\chi^2$/NDF: 1020563.0/34

In: 1895.640+/-0.434 $\chi^2$/NDF:658173.9/18

Out: 1922.223+/-0.413 $\chi^2$/NDF:411161.2/23

All: 1909.594+/-0.299 $\chi^2$/NDF: 1071305.9/42




Right In: 402.626+/-258.574 $\chi^2$/NDF: 21.1/15

Left Out: 37.770+/-234.818 $\chi^2$/NDF:7.2/4

Right Out: -430.066+/-252.823 $\chi^2$/NDF: 11.7/18

Left In: -108.702+/-265.239 $\chi^2$/NDF:1.9/2

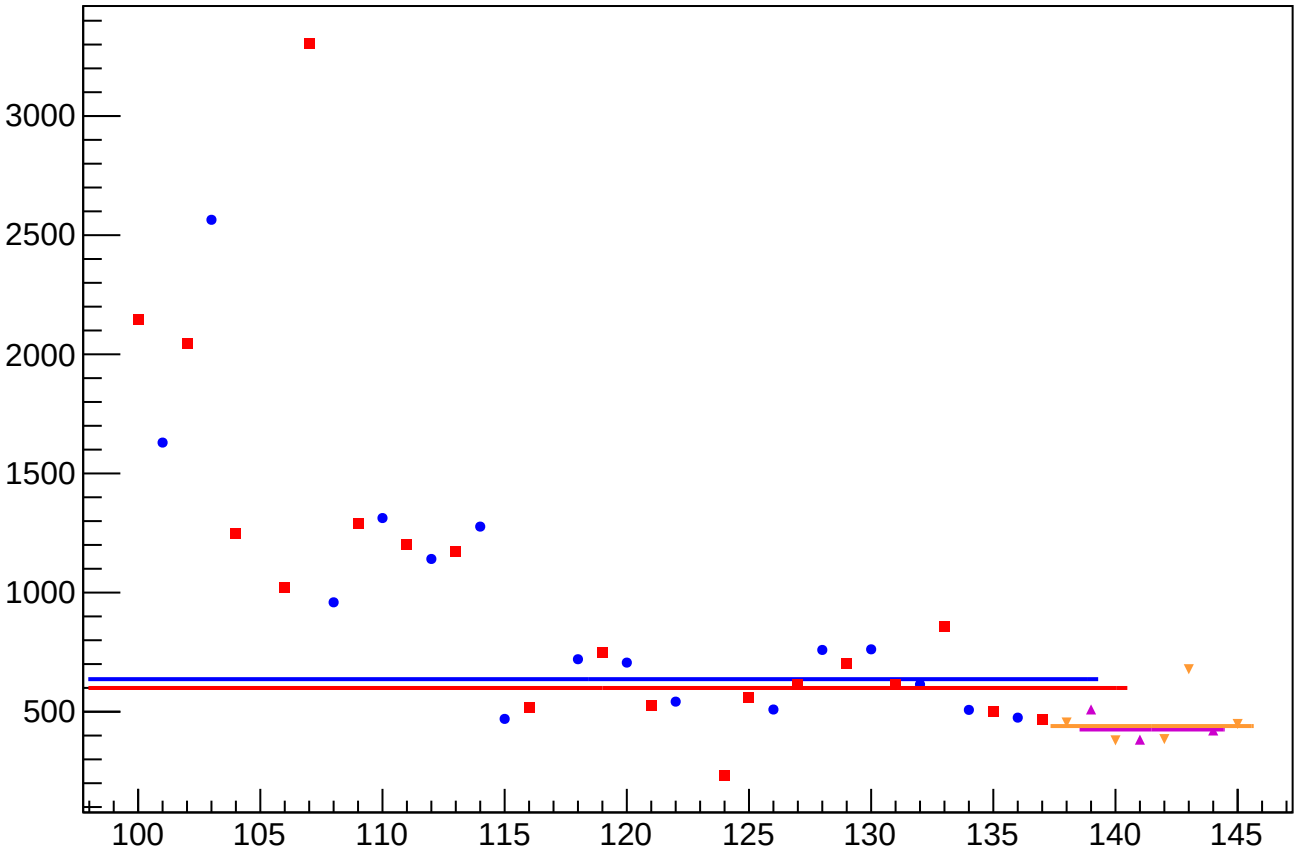
Left: -26.588+/-175.817 $\chi^2$/NDF: 9.2/7

Right: -23.083+/-180.772 $\chi^2$/NDF: 38.2/34

In: 153.467+/-185.151 $\chi^2$/NDF:24.9/18

Out: -178.897+/-172.055 $\chi^2$/NDF:20.8/23

All: -24.884+/-126.037 $\chi^2$/NDF: 47.4/42




Right In: 636.700+/-0.183 $\chi^2$/NDF: 2066891.4/15

Left Out: 439.846+/-0.166 $\chi^2$/NDF:261711.2/4

Right Out: 599.631+/-0.179 $\chi^2$/NDF: 2944100.6/18

Left In: 425.404+/-0.188 $\chi^2$/NDF:67887.0/2

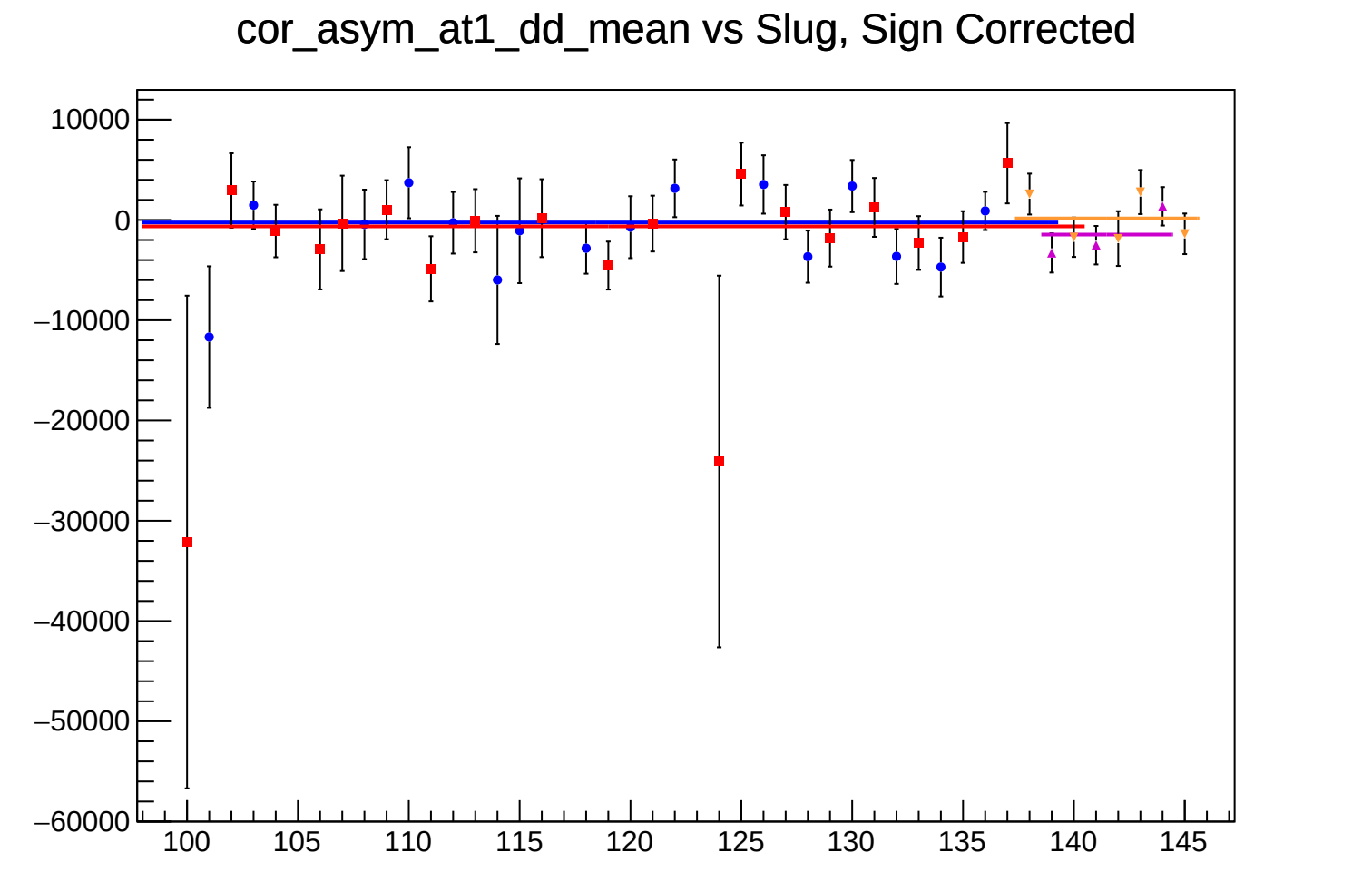
Left: 433.500+/-0.124 $\chi^2$/NDF: 332922.6/7

Right: 617.749+/-0.128 $\chi^2$/NDF: 5032005.8/34

In: 533.740+/-0.131 $\chi^2$/NDF:2785539.4/18

Out: 513.847+/-0.122 $\chi^2$/NDF:3634695.3/23

All: 523.065+/-0.089 $\chi^2$/NDF: 6432623.7/42




Right In: -250.487+/-735.112 $\chi^2$/NDF: 17.2/15

Left Out: 150.704+/-959.264 $\chi^2$/NDF:4.9/4

Right Out: -640.865+/-736.549 $\chi^2$/NDF: 16.0/18

Left In: -1456.277+/-1113.825 $\chi^2$/NDF:3.3/2

Left: -533.639+/-726.856 $\chi^2$/NDF: 9.4/7

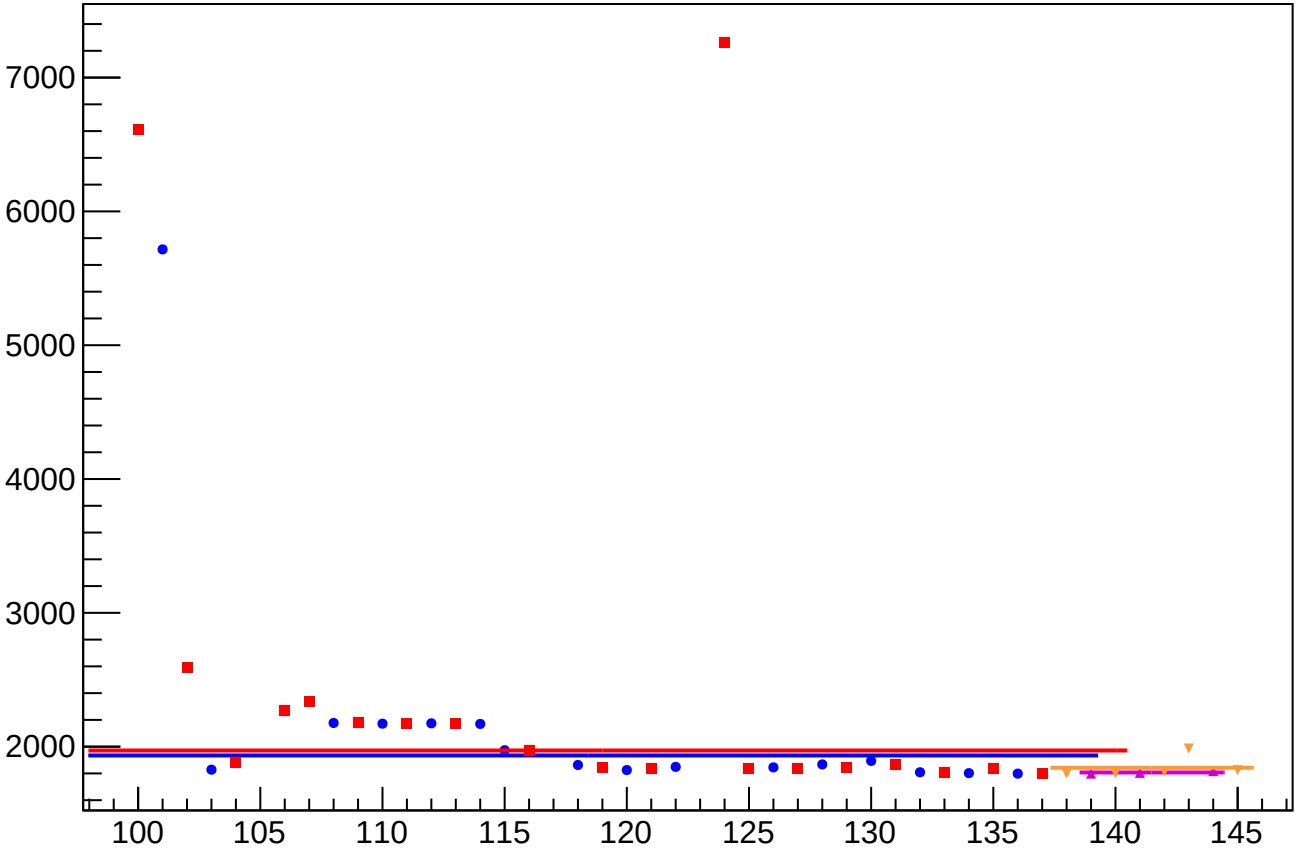
Right: -445.295+/-520.310 $\chi^2$/NDF: 33.3/34

In: -616.347+/-613.534 $\chi^2$/NDF:21.4/18

Out: -347.276+/-584.202 $\chi^2$/NDF:21.3/23

All: -475.226+/-423.083 $\chi^2$/NDF: 42.8/42

# cor_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639919.9/15

Left Out: 1842.301+/-0.678 $\chi^2$/NDF:10738.3/4

Right Out: 1971.357+/-0.521 $\chi^2$/NDF: 383176.6/18

Left In: 1807.079+/-0.788 $\chi^2$/NDF:102.3/2

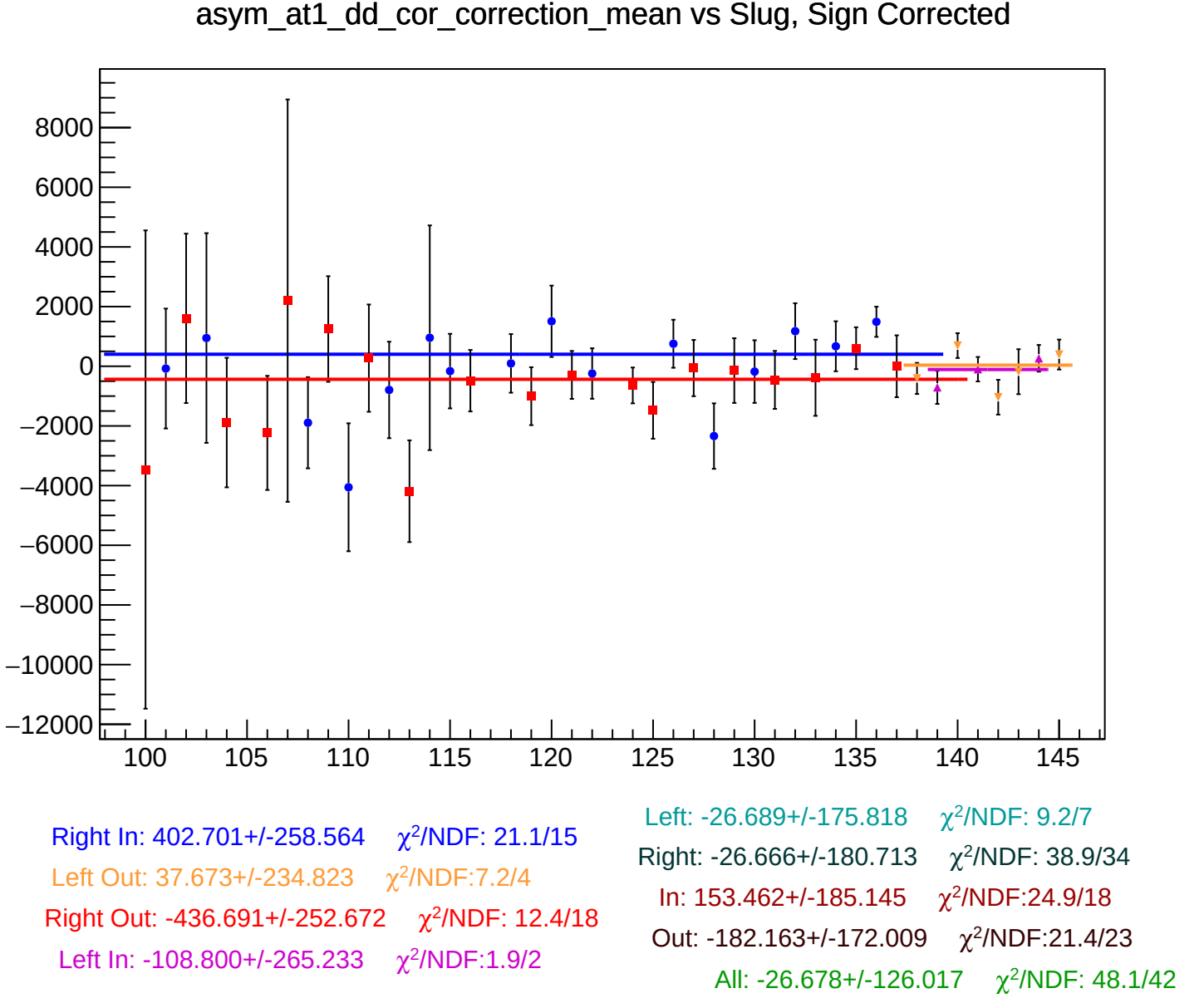
Left: 1827.301+/-0.514 $\chi^2$/NDF: 11988.8/7

Right: 1952.750+/-0.368 $\chi^2$/NDF: 1025644.1/34

In: 1895.641+/-0.434 $\chi^2$/NDF:658173.8/18

Out: 1923.491+/-0.413 $\chi^2$/NDF:416688.6/23

All: 1910.247+/-0.299 $\chi^2$/NDF: 1077023.8/42


asym_at1_dd_cor_correction_mean vs Slug, Sign Corrected
8000
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125
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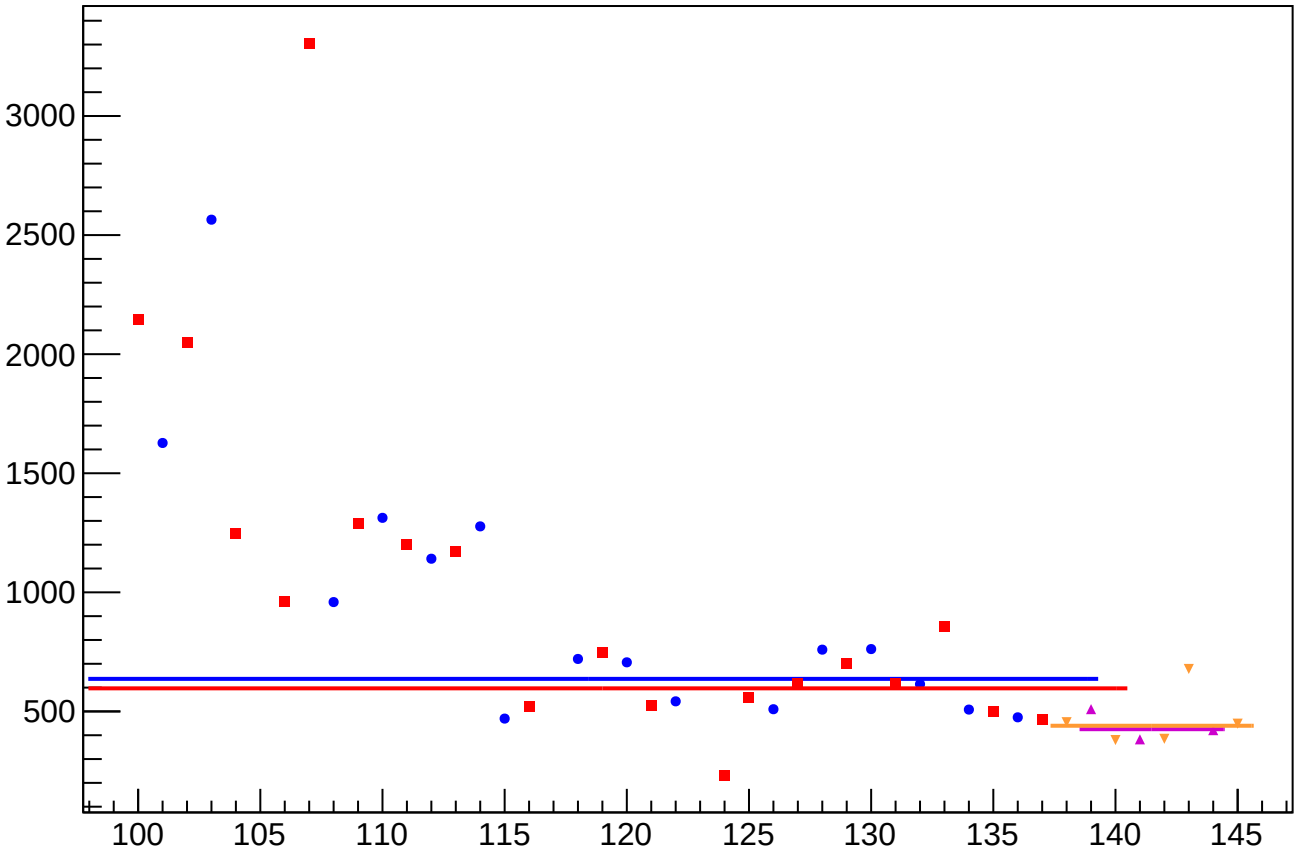
135
140
145
Right In: 402.701+/-258.564 χ²/NDF: 21.1/15
Left Out: 37.673+/-234.823 χ²/NDF:7.2/4
Right Out: -436.691+/-252.672 χ²/NDF: 12.4/18
Left In: -108.800+/-265.233 χ²/NDF:1.9/2
Left: -26.689+/-175.818 χ²/NDF: 9.2/7
Right: -26.666+/-180.713 χ²/NDF: 38.9/34
In: 153.462+/-185.145 χ²/NDF:24.9/18
Out: -182.163+/-172.009 χ²/NDF:21.4/23
All: -26.678+/-126.017 χ²/NDF: 48.1/42




Right In: 636.698+/-0.183 $\chi^2$/NDF: 2066022.1/15

Left Out: 439.857+/-0.166 $\chi^2$/NDF:261674.8/4

Right Out: 596.862+/-0.179 $\chi^2$/NDF: 2930443.7/18

Left In: 425.393+/-0.188 $\chi^2$/NDF:67881.2/2

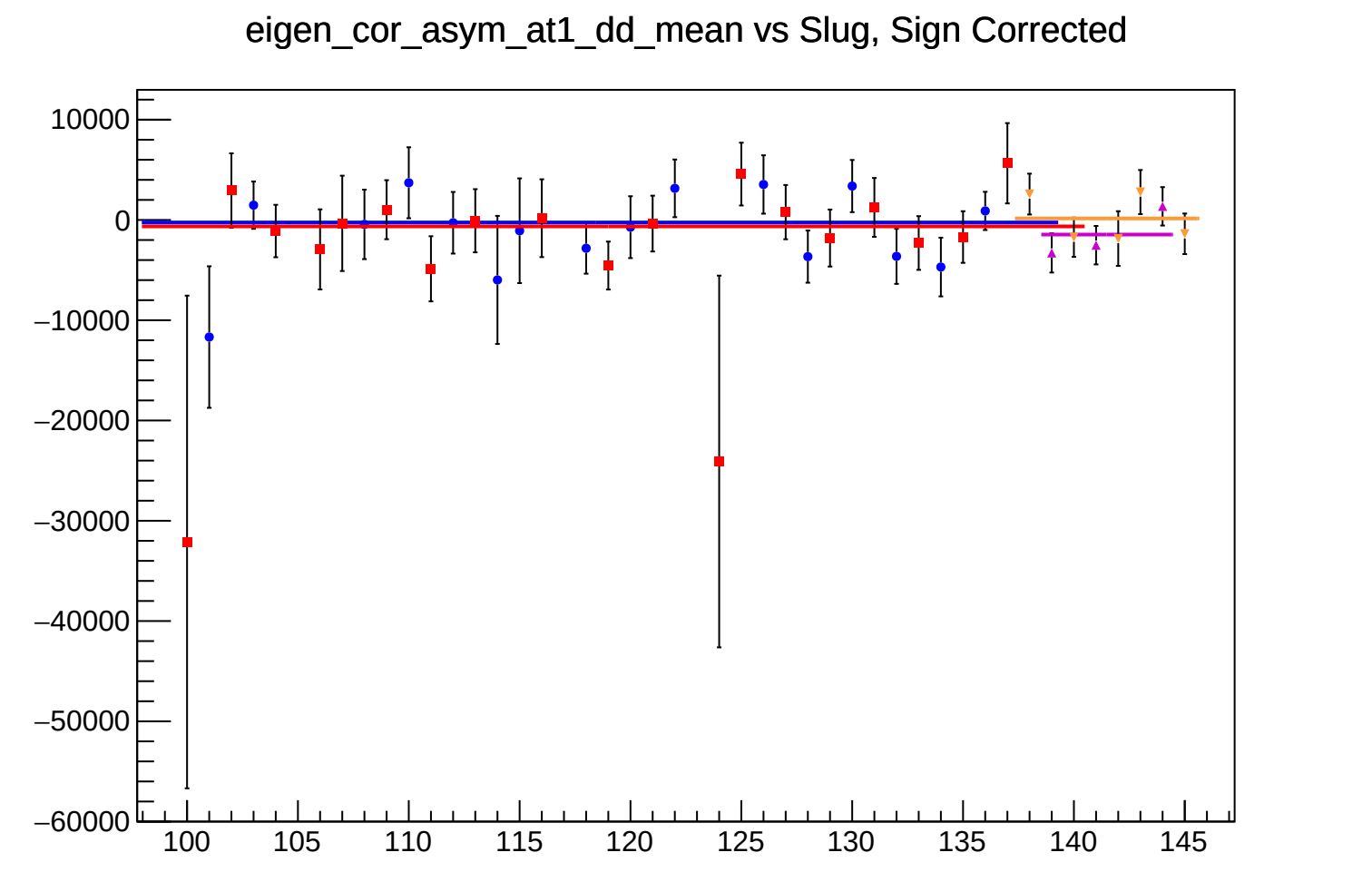
Left: 433.501+/-0.124 $\chi^2$/NDF: 332889.9/7

Right: 616.321+/-0.128 $\chi^2$/NDF: 5020749.4/34

In: 533.736+/-0.131 $\chi^2$/NDF:2784756.1/18

Out: 512.618+/-0.122 $\chi^2$/NDF:3606467.5/23

All: 522.401+/-0.089 $\chi^2$/NDF: 6405188.9/42




Right In: -250.487+/-735.112 $\chi^2$/NDF: 17.2/15

Left Out: 150.704+/-959.264 $\chi^2$/NDF:4.9/4

Right Out: -640.865+/-736.549 $\chi^2$/NDF: 16.0/18

Left In: -1456.277+/-1113.825 $\chi^2$/NDF:3.3/2

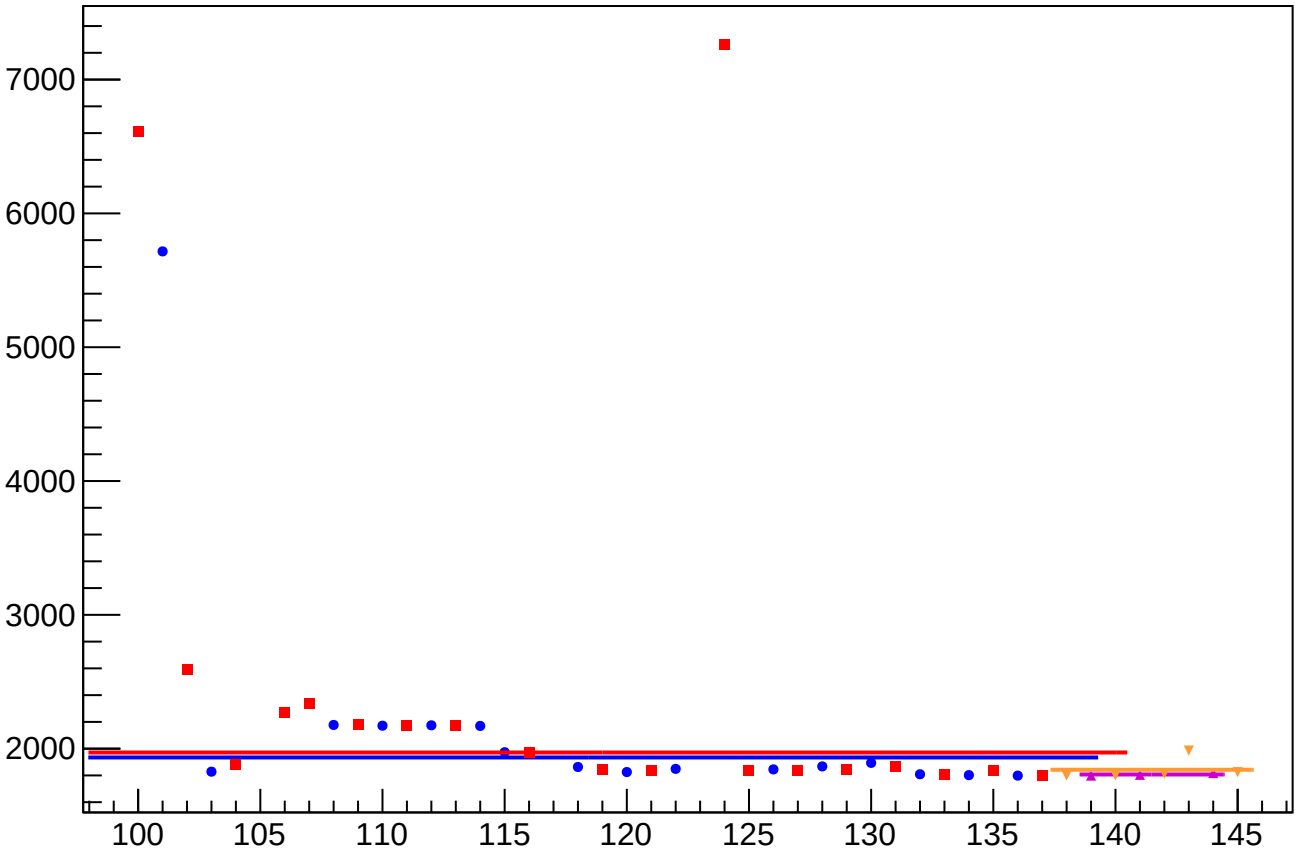
Left: -533.639+/-726.856 $\chi^2$/NDF: 9.4/7

Right: -445.295+/-520.310 $\chi^2$/NDF: 33.3/34

In: -616.347+/-613.534 $\chi^2$/NDF:21.4/18

Out: -347.276+/-584.202 $\chi^2$/NDF:21.3/23

All: -475.226+/-423.083 $\chi^2$/NDF: 42.8/42




Right In: 1934.217+/-0.520 $\chi^2$/NDF: 639919.9/15

Left Out: 1842.301+/-0.678 $\chi^2$/NDF:10738.3/4

Right Out: 1971.357+/-0.521 $\chi^2$/NDF: 383176.6/18

Left In: 1807.079+/-0.788 $\chi^2$/NDF:102.3/2

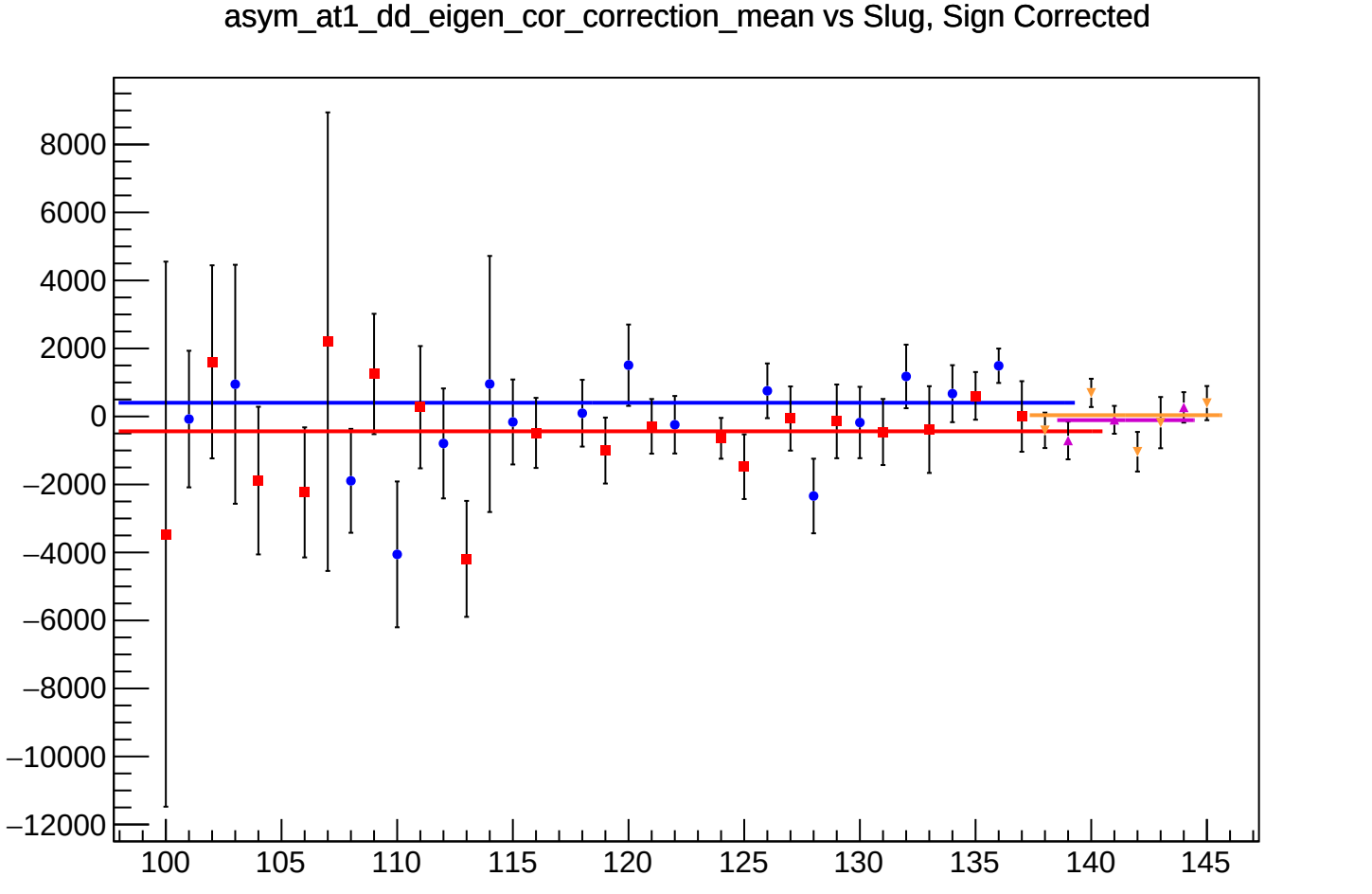
Left: 1827.301+/-0.514 $\chi^2$/NDF: 11988.8/7

Right: 1952.750+/-0.368 $\chi^2$/NDF: 1025644.1/34

In: 1895.641+/-0.434 $\chi^2$/NDF:658173.8/18

Out: 1923.491+/-0.413 $\chi^2$/NDF:416688.6/23

All: 1910.247+/-0.299 $\chi^2$/NDF: 1077023.8/42


asym_at1_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
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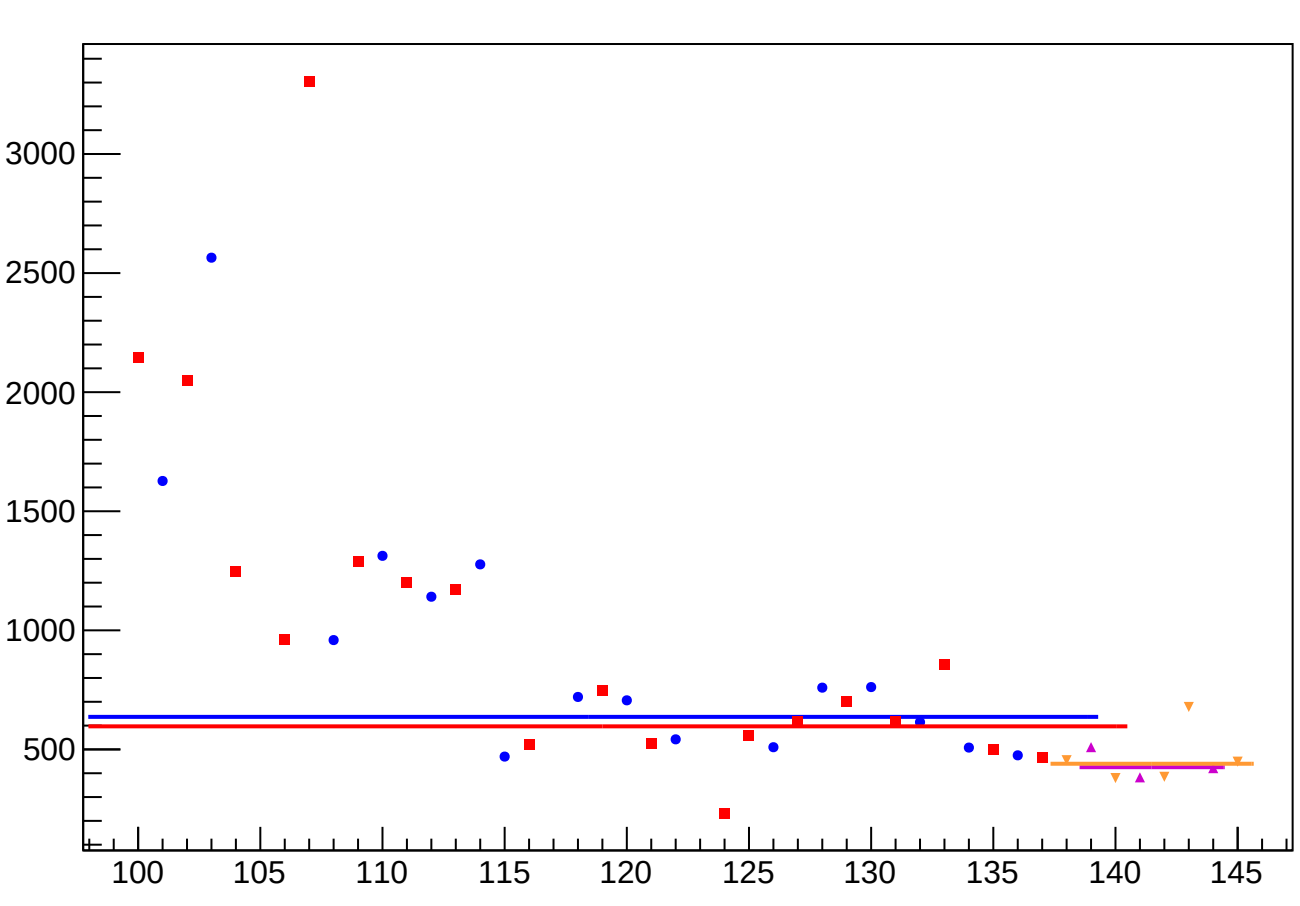
125
130
135
140
145
Right In: 402.701+/-258.564 χ²/NDF: 21.1/15
Left Out: 37.673+/-234.823 χ²/NDF:7.2/4
Right Out: -436.691+/-252.672 χ²/NDF: 12.4/18
Left In: -108.800+/-265.233 χ²/NDF:1.9/2
Left: -26.689+/-175.818 χ²/NDF: 9.2/7
Right: -26.666+/-180.713 χ²/NDF: 38.9/34
In: 153.462+/-185.145 χ²/NDF:24.9/18
Out: -182.163+/-172.009 χ²/NDF:21.4/23
All: -26.678+/-126.017 χ²/NDF: 48.1/42




Right In: 636.698+/-0.183 $\chi^2$/NDF: 2066022.1/15

Left Out: 439.857+/-0.166 $\chi^2$/NDF:261674.8/4

Right Out: 596.862+/-0.179 $\chi^2$/NDF: 2930443.7/18

Left In: 425.393+/-0.188 $\chi^2$/NDF:67881.2/2

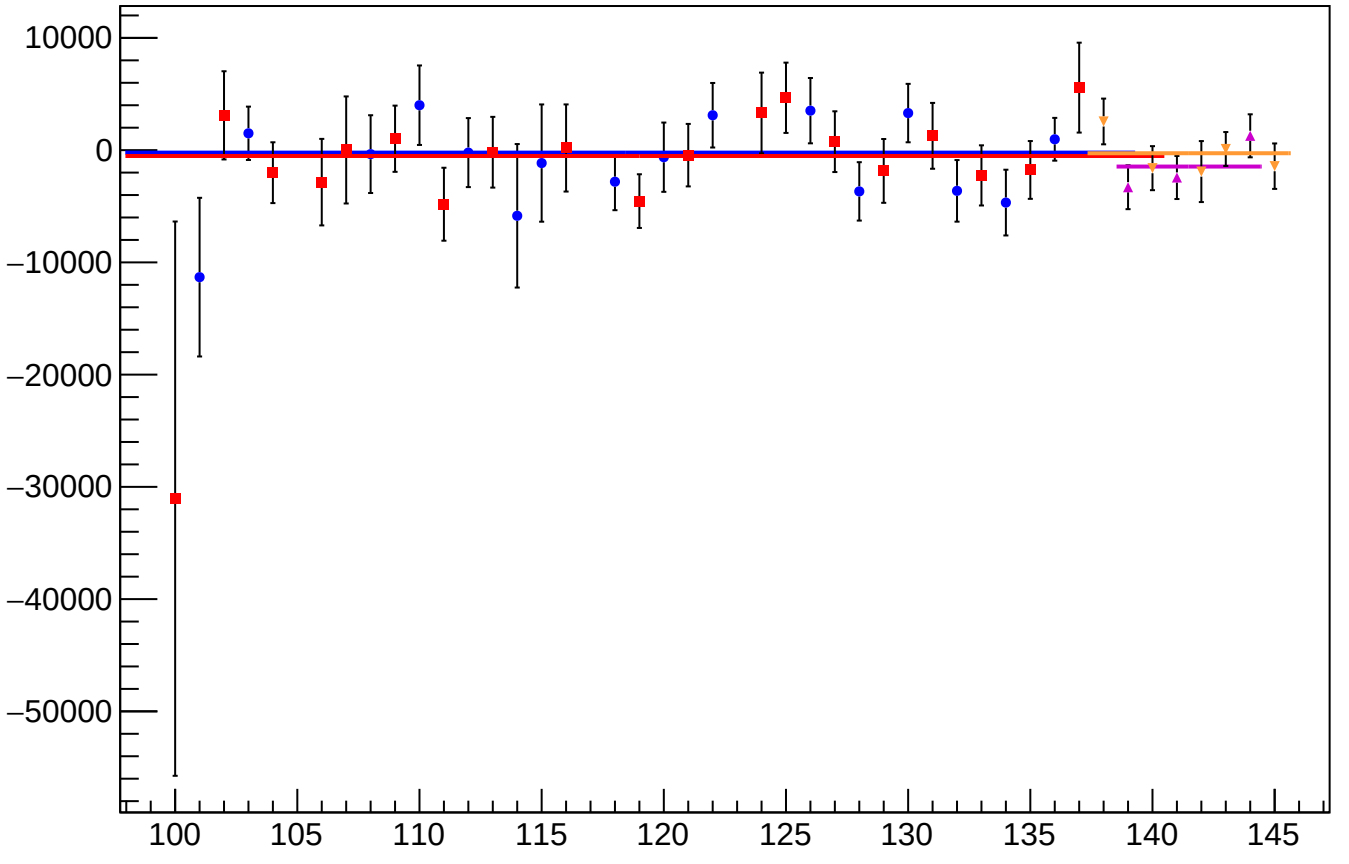
Left: 433.501+/-0.124 $\chi^2$/NDF: 332889.9/7

Right: 616.321+/-0.128 $\chi^2$/NDF: 5020749.4/34

In: 533.736+/-0.131 $\chi^2$/NDF:2784756.1/18

Out: 512.618+/-0.122 $\chi^2$/NDF:3606467.5/23

All: 522.401+/-0.089 $\chi^2$/NDF: 6405188.9/42




Right In: -220.393+/-735.888 $\chi^2$/NDF: 17.1/15

Left Out: -275.515+/-870.733 $\chi^2$/NDF:3.1/4

Right Out: -520.265+/-724.980 $\chi^2$/NDF: 15.6/18

Left In: -1462.024+/-1114.169 $\chi^2$/NDF:3.2/2

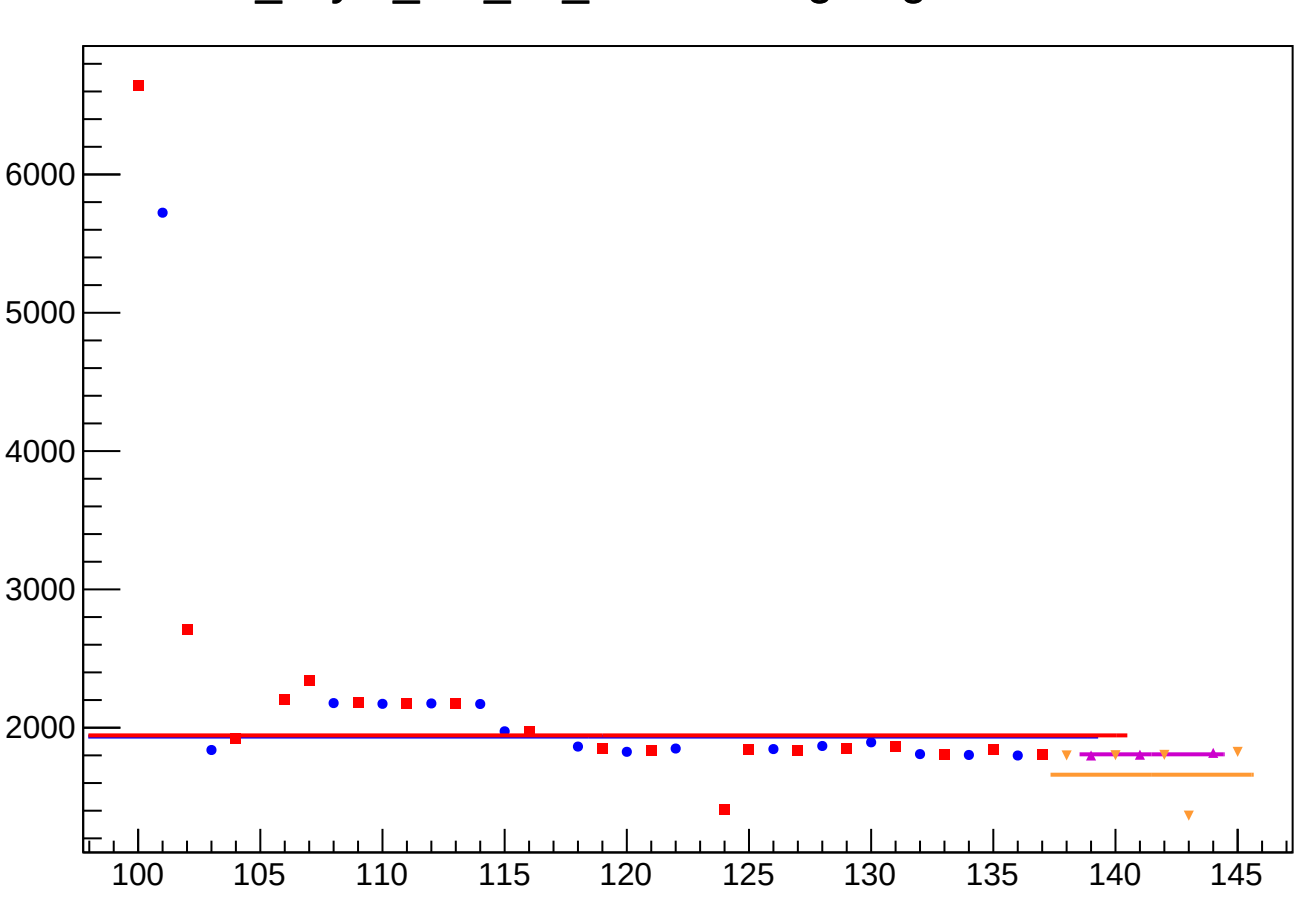
Left: -725.408+/-686.072 $\chi^2$/NDF: 7.0/7

Right: -372.568+/-516.452 $\chi^2$/NDF: 32.8/34

In: -597.521+/-614.043 $\chi^2$/NDF:21.2/18

Out: -420.060+/-557.143 $\chi^2$/NDF:18.8/23

All: -500.189+/-412.613 $\chi^2$/NDF: 40.0/42




Right In: 1935.974+/-0.520 $\chi^2$/NDF: 639808.0/15

Left Out: 1660.248+/-0.616 $\chi^2$/NDF:115372.9/4

Right Out: 1944.495+/-0.513 $\chi^2$/NDF: 276223.6/18

Left In: 1807.636+/-0.788 $\chi^2$/NDF:102.4/2

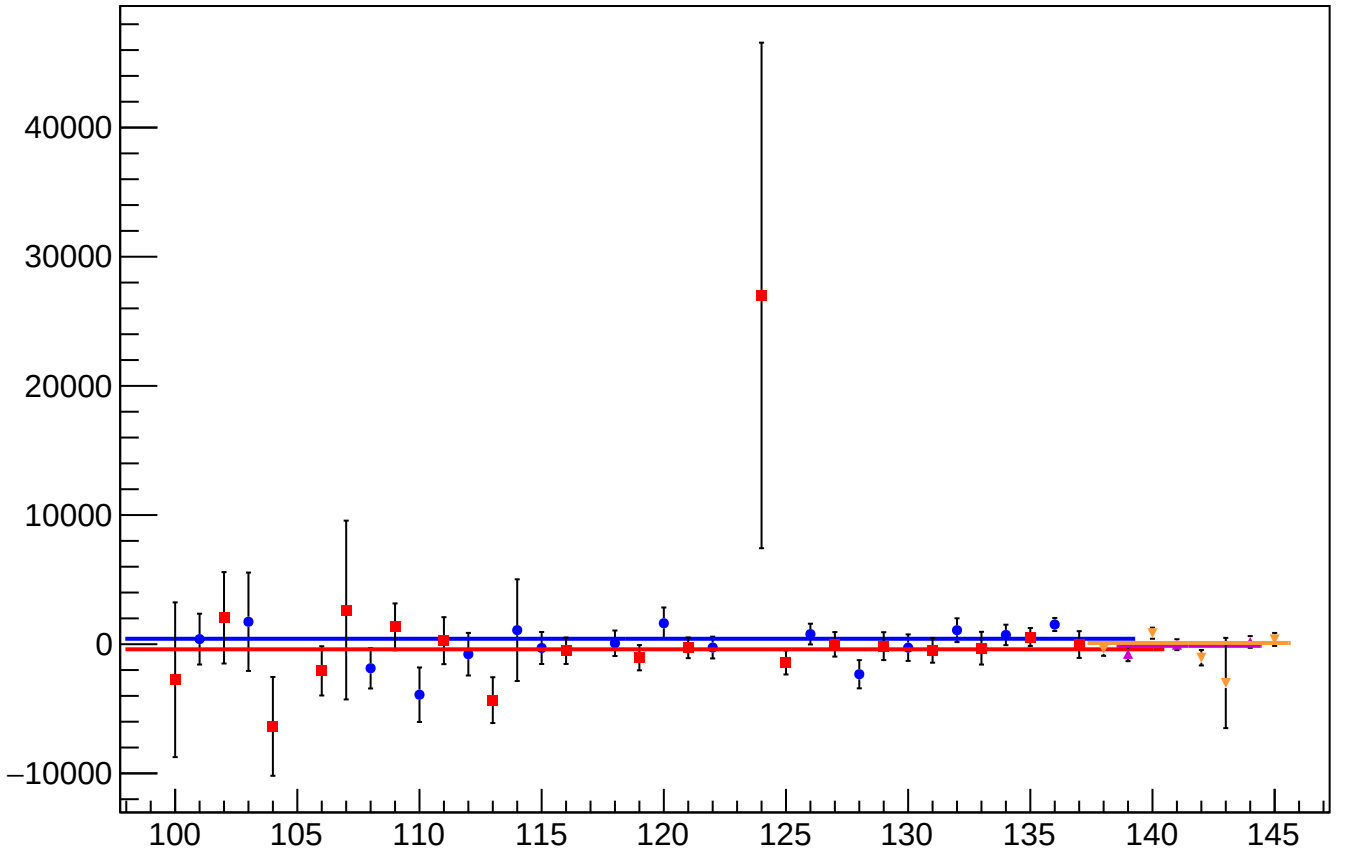
Left: 1716.133+/-0.485 $\chi^2$/NDF: 137203.4/7

Right: 1940.298+/-0.365 $\chi^2$/NDF: 916167.7/34

In: 1896.993+/-0.434 $\chi^2$/NDF:658386.7/18

Out: 1828.120+/-0.394 $\chi^2$/NDF:517470.0/23

All: 1859.218+/-0.292 $\chi^2$/NDF: 1189657.0/42




Right In: 421.145+/-256.749 $\chi^2$/NDF: 21.5/15

Left Out: 97.236+/-250.597 $\chi^2$/NDF:8.7/4

Right Out: -393.590+/-279.562 $\chi^2$/NDF: 15.9/18

Left In: -126.300+/-270.455 $\chi^2$/NDF:1.7/2

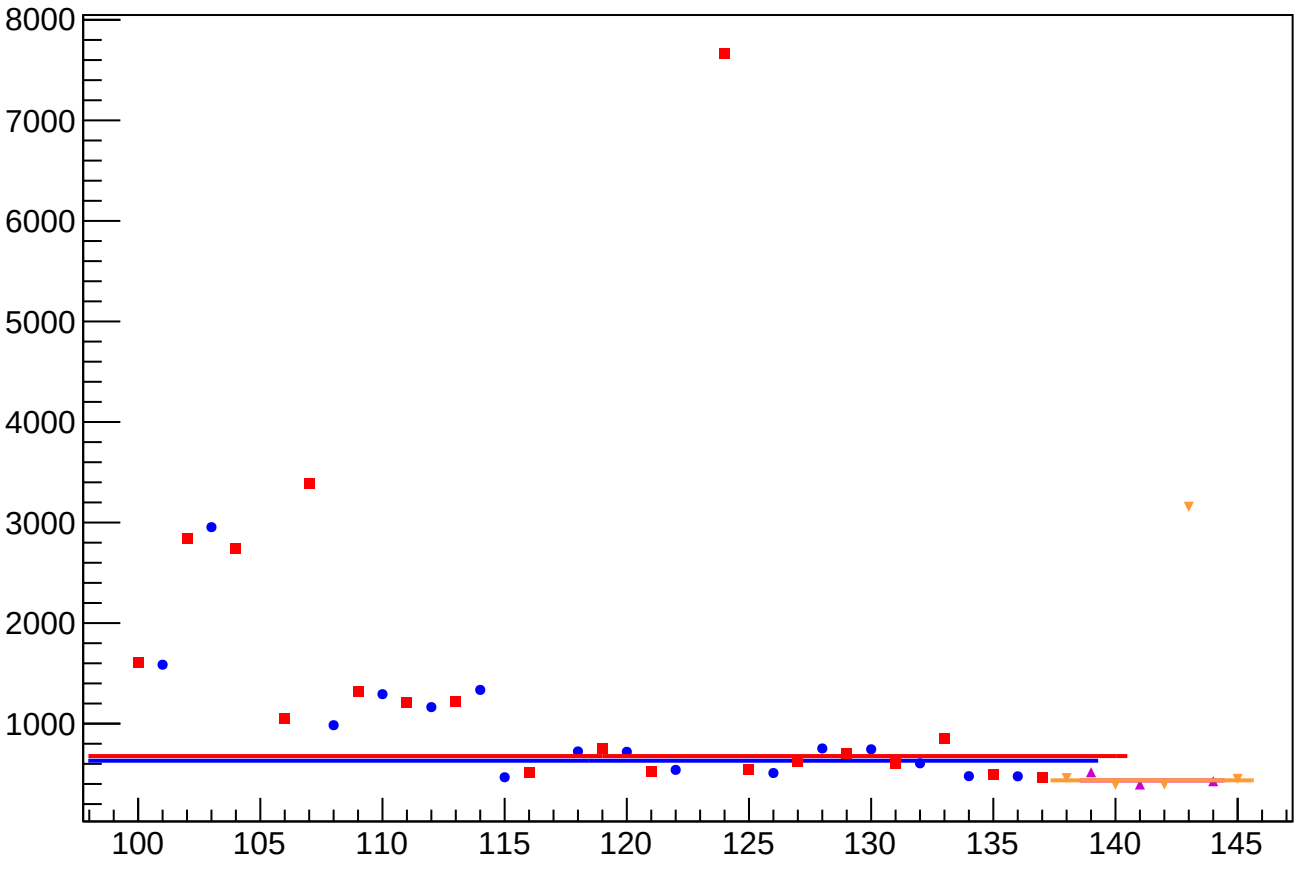
Left: -6.025+/-183.819 $\chi^2$/NDF: 10.8/7

Right: 48.371+/-189.101 $\chi^2$/NDF: 41.9/34

In: 161.645+/-186.206 $\chi^2$/NDF:25.4/18

Out: -121.441+/-186.602 $\chi^2$/NDF:26.2/23

All: 20.403+/-131.807 $\chi^2$/NDF: 52.7/42




Right In: 631.140+/-0.182 $\chi^2$/NDF: 2234480.1/15

Left Out: 436.053+/-0.177 $\chi^2$/NDF:1248858.7/4

Right Out: 677.438+/-0.198 $\chi^2$/NDF: 3081569.8/18

Left In: 434.655+/-0.191 $\chi^2$/NDF:61164.2/2

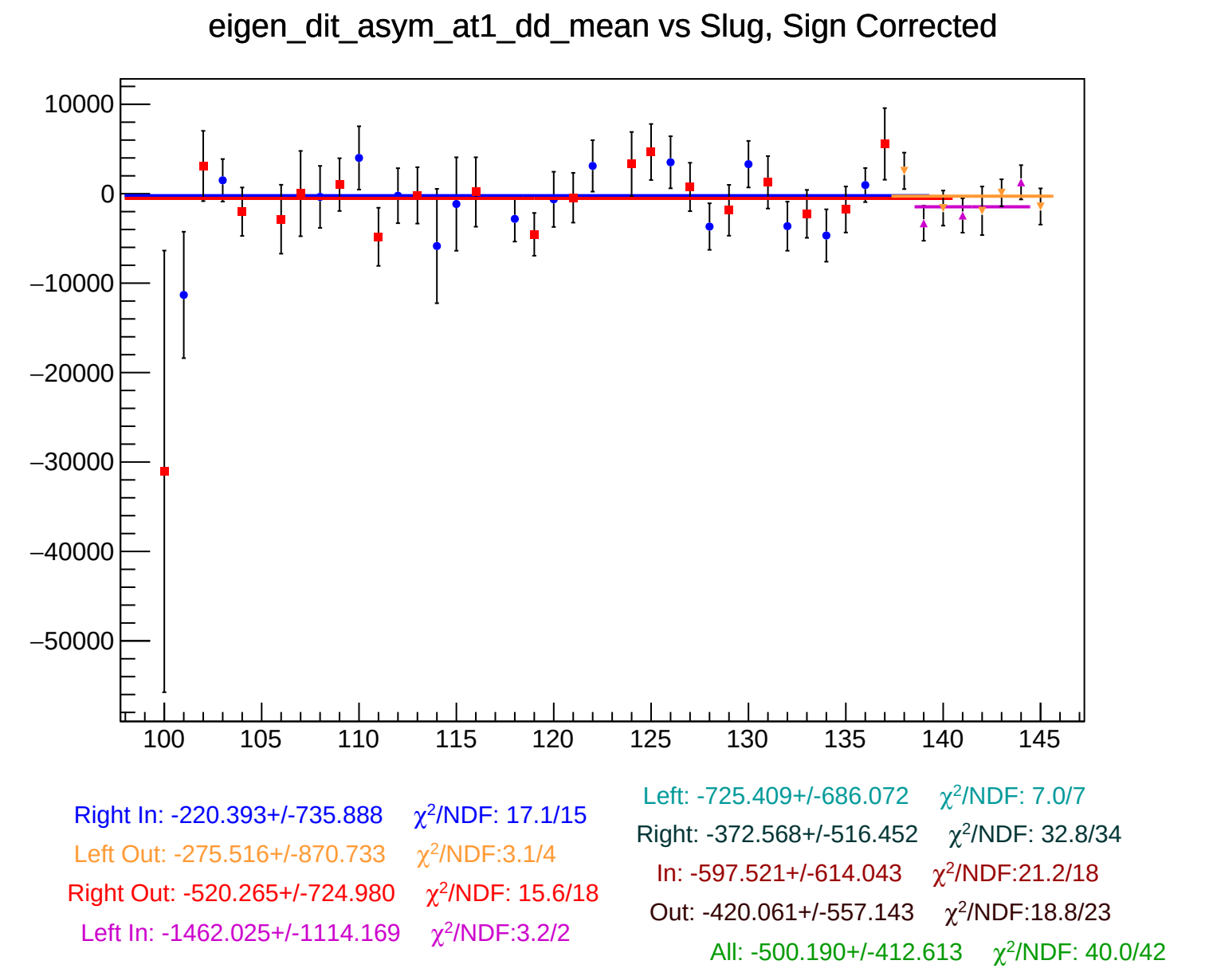
Left: 435.407+/-0.130 $\chi^2$/NDF: 1310051.6/7

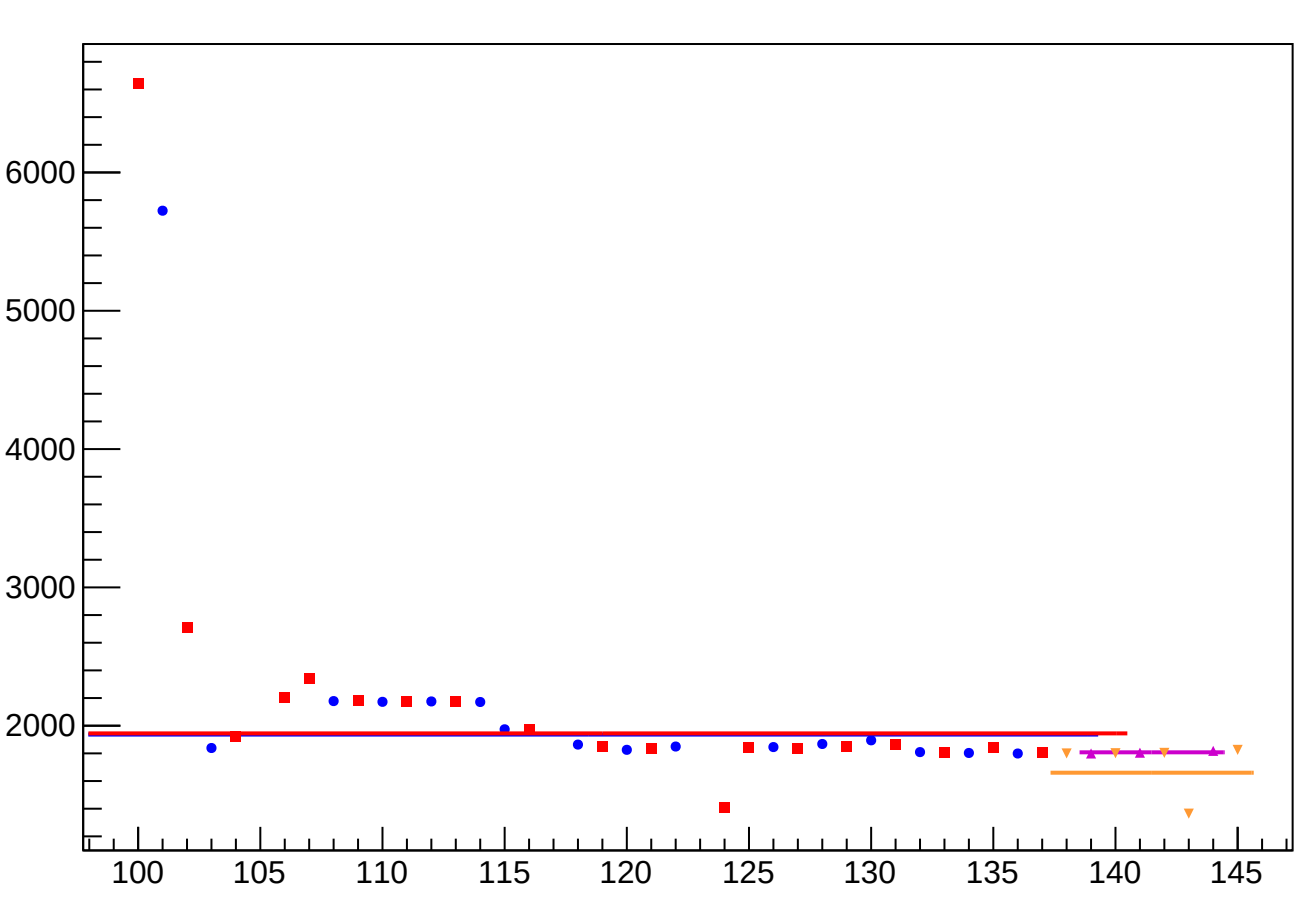
Right: 652.323+/-0.134 $\chi^2$/NDF: 5345805.1/34

In: 538.002+/-0.132 $\chi^2$/NDF:2850863.4/18

Out: 543.597+/-0.132 $\chi^2$/NDF:5157170.9/23

All: 540.794+/-0.093 $\chi^2$/NDF: 8008935.1/42


eigen_dit_asym_at1_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
105
110
115
120
125
130
135
140
145
Right In: -220.393+/-735.888 χ²/NDF: 17.1/15
Left Out: -275.516+/-870.733 χ²/NDF:3.1/4
Right Out: -520.265+/-724.980 χ²/NDF: 15.6/18
Left In: -1462.025+/-1114.169 χ²/NDF:3.2/2
Left: -725.409+/-686.072 χ²/NDF: 7.0/7
Right: -372.568+/-516.452 χ²/NDF: 32.8/34
In: -597.521+/-614.043 χ²/NDF:21.2/18
Out: -420.061+/-557.143 χ²/NDF:18.8/23
All: -500.190+/-412.613 χ²/NDF: 40.0/42




Right In: 1935.974+/-0.520 $\chi^2$/NDF: 639808.0/15

Left Out: 1660.248+/-0.616 $\chi^2$/NDF:115372.9/4

Right Out: 1944.495+/-0.513 $\chi^2$/NDF: 276223.5/18

Left In: 1807.636+/-0.788 $\chi^2$/NDF:102.4/2

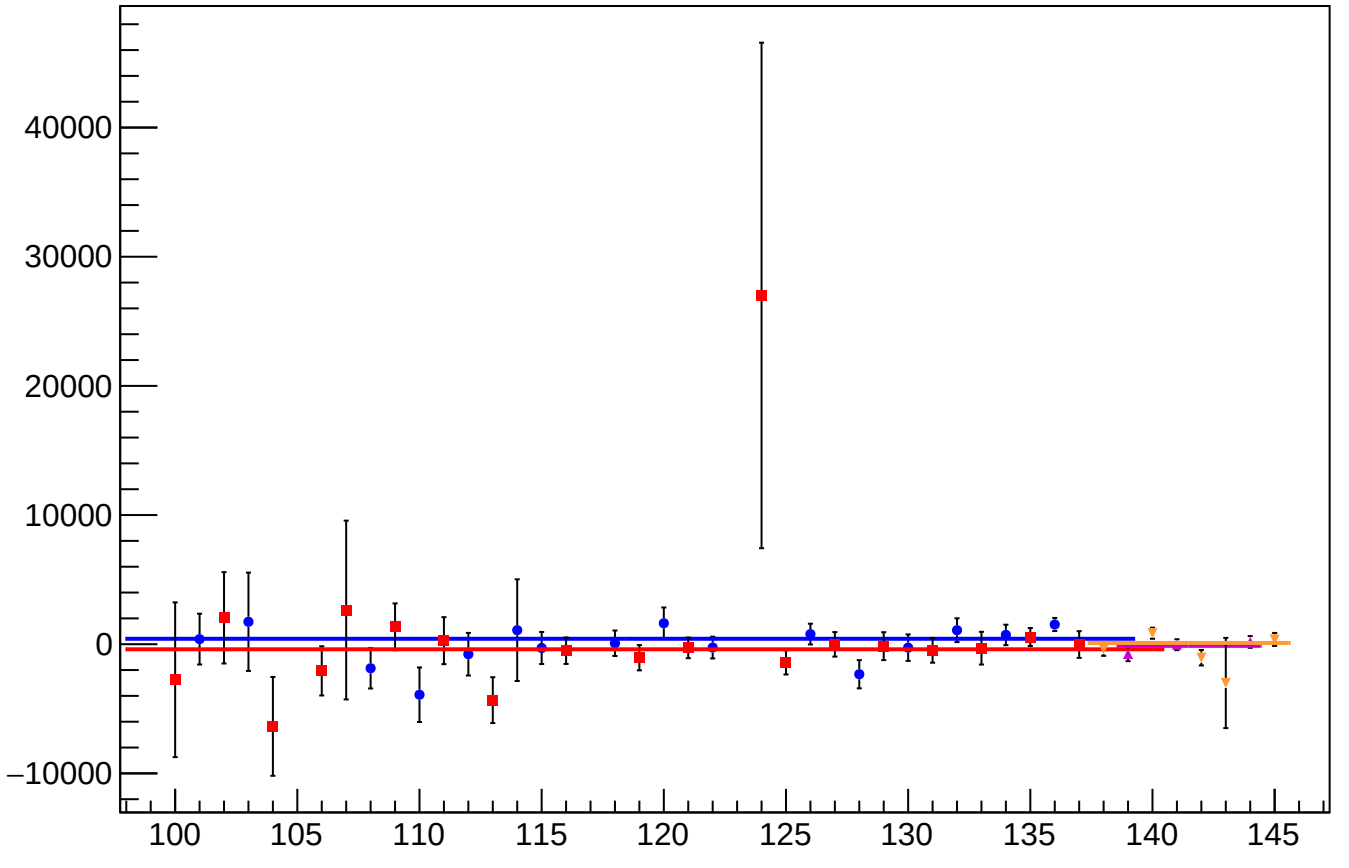
Left: 1716.133+/-0.485 $\chi^2$/NDF: 137203.4/7

Right: 1940.298+/-0.365 $\chi^2$/NDF: 916167.5/34

In: 1896.993+/-0.434 $\chi^2$/NDF:658386.8/18

Out: 1828.120+/-0.394 $\chi^2$/NDF:517469.8/23

All: 1859.218+/-0.292 $\chi^2$/NDF: 1189656.8/42




Right In: 421.144+/-256.749 $\chi^2$/NDF: 21.5/15

Left Out: 97.239+/-250.596 $\chi^2$/NDF:8.7/4

Right Out: -393.591+/-279.562 $\chi^2$/NDF: 15.9/18

Left In: -126.301+/-270.455 $\chi^2$/NDF:1.7/2

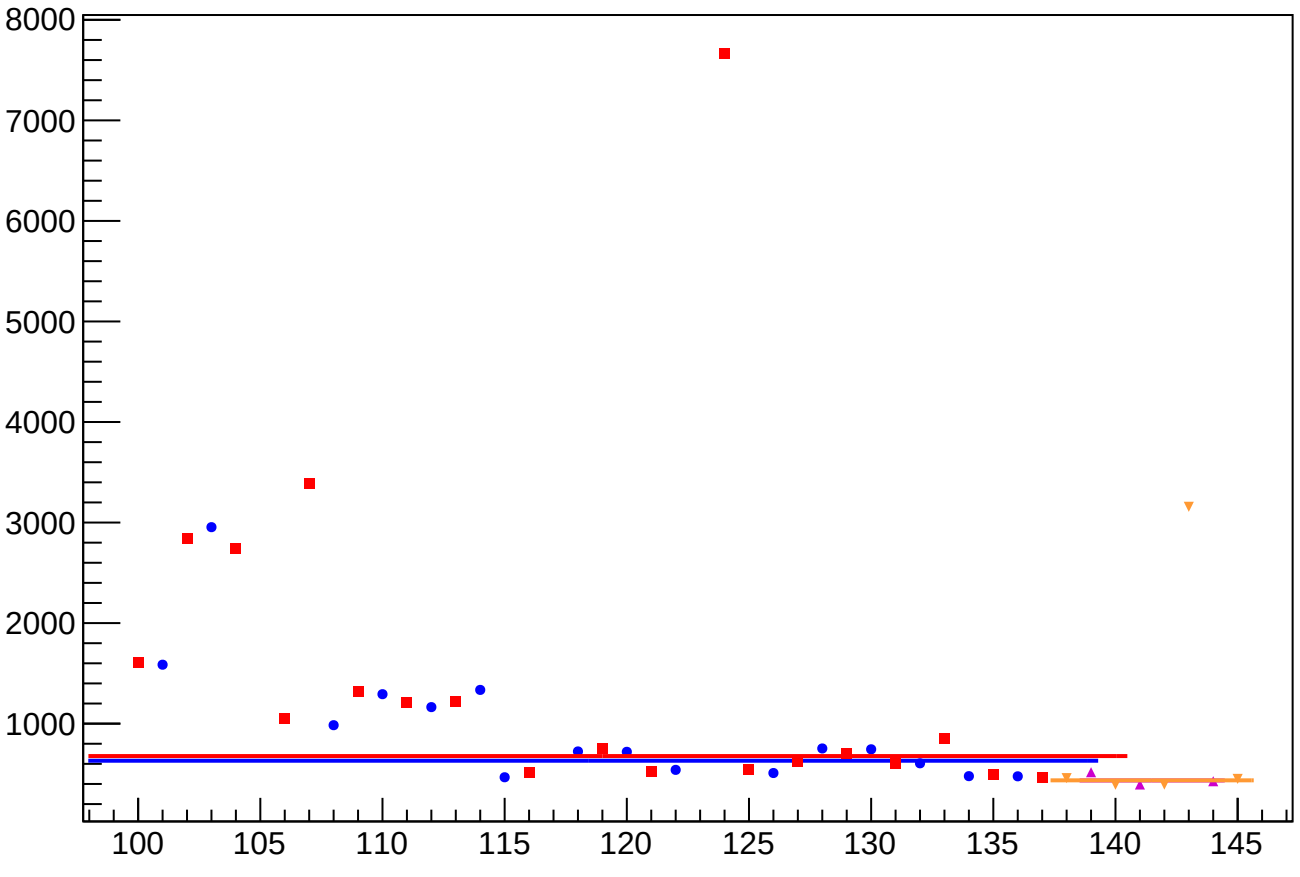
Left: -6.024+/-183.819 $\chi^2$/NDF: 10.8/7

Right: 48.371+/-189.101 $\chi^2$/NDF: 41.9/34

In: 161.644+/-186.206 $\chi^2$/NDF:25.4/18

Out: -121.439+/-186.602 $\chi^2$/NDF:26.2/23

All: 20.403+/-131.807 $\chi^2$/NDF: 52.7/42




Right In: 631.139+/-0.182 $\chi^2$/NDF: 2234479.1/15

Left Out: 436.052+/-0.177 $\chi^2$/NDF:1248857.1/4

Right Out: 677.437+/-0.198 $\chi^2$/NDF: 3081570.5/18

Left In: 434.655+/-0.191 $\chi^2$/NDF:61164.4/2

Left: 435.406+/-0.130 $\chi^2$/NDF: 1310050.3/7

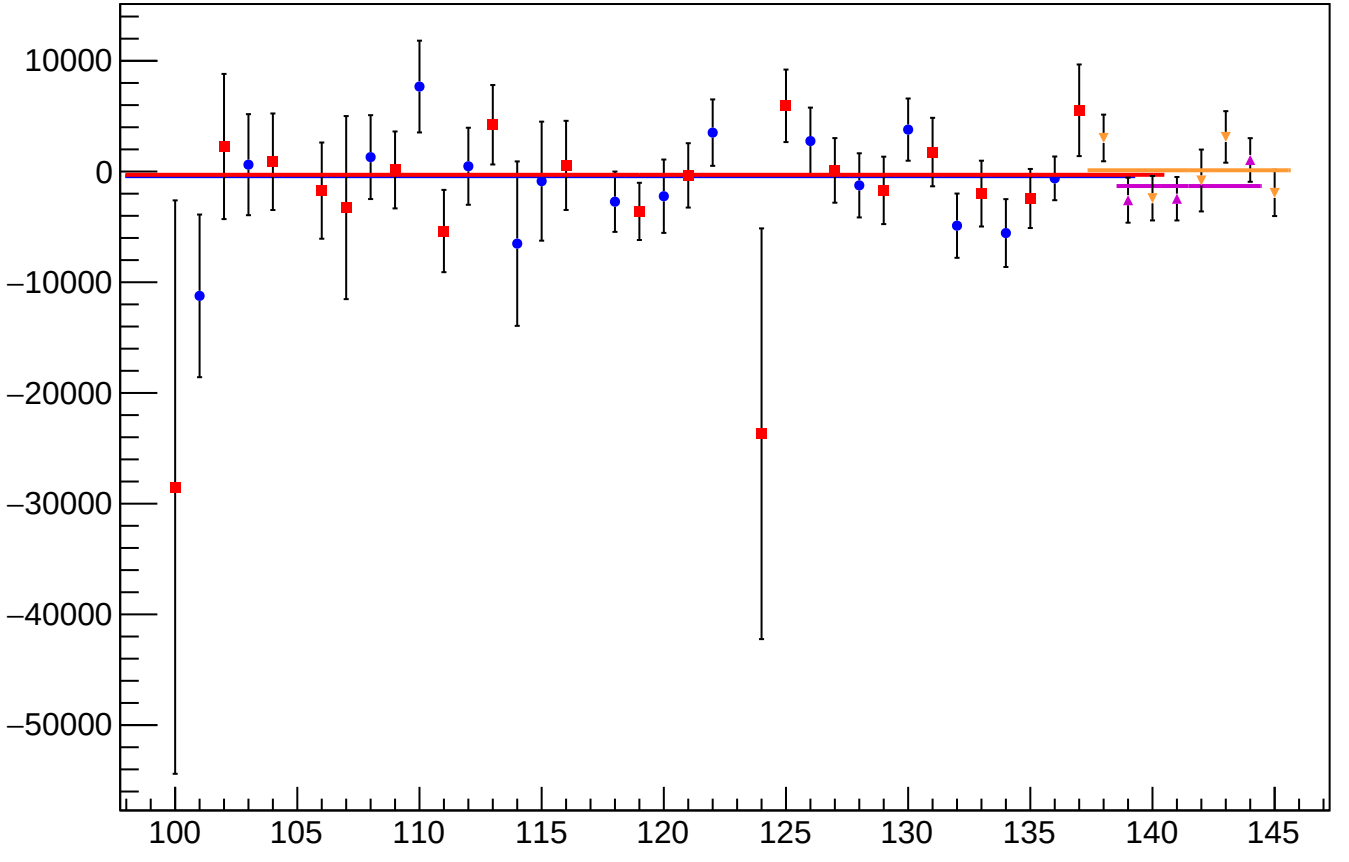
Right: 652.323+/-0.134 $\chi^2$/NDF: 5345804.8/34

In: 538.002+/-0.132 $\chi^2$/NDF:2850865.9/18

Out: 543.596+/-0.132 $\chi^2$/NDF:5157180.1/23

All: 540.793+/-0.093 $\chi^2$/NDF: 8008946.5/42

# asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -417.662+/-815.370 $\chi^2$/NDF: 18.3/15

Left Out: 113.037+/-992.425 $\chi^2$/NDF:6.2/4

Right Out: -294.527+/-831.610 $\chi^2$/NDF: 15.6/18

Left In: -1309.230+/-1147.726 $\chi^2$/NDF:2.2/2

Left: -495.430+/-750.699 $\chi^2$/NDF: 9.3/7

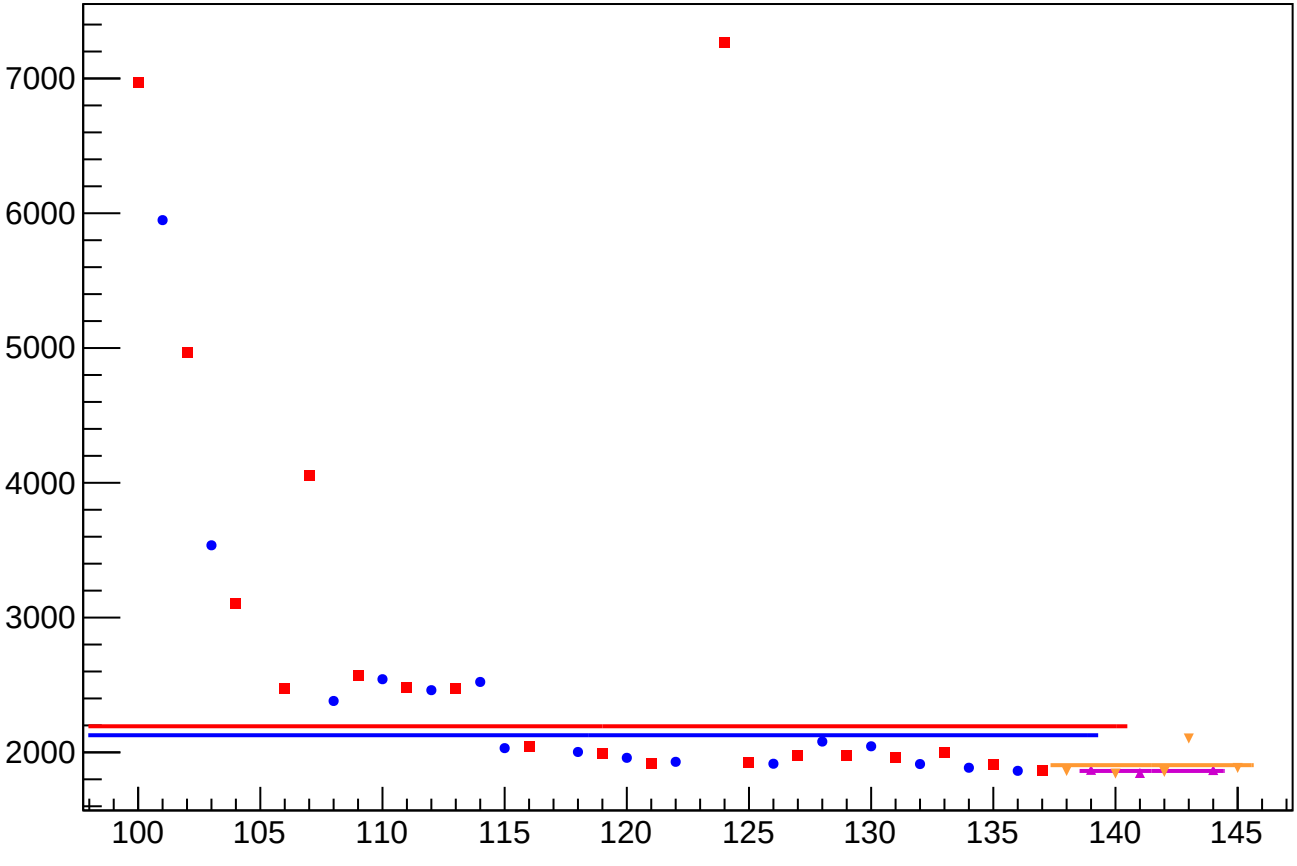
Right: -357.308+/-582.210 $\chi^2$/NDF: 34.0/34

In: -716.707+/-664.706 $\chi^2$/NDF:20.9/18

Out: -126.400+/-637.408 $\chi^2$/NDF:22.0/23

All: -409.184+/-460.064 $\chi^2$/NDF: 43.3/42

# asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 2127.041+/-0.577 $\chi^2$/NDF: 875078.1/15

Left Out: 1904.997+/-0.702 $\chi^2$/NDF:18084.6/4

Right Out: 2193.560+/-0.588 $\chi^2$/NDF: 942581.2/18

Left In: 1862.044+/-0.812 $\chi^2$/NDF:172.0/2

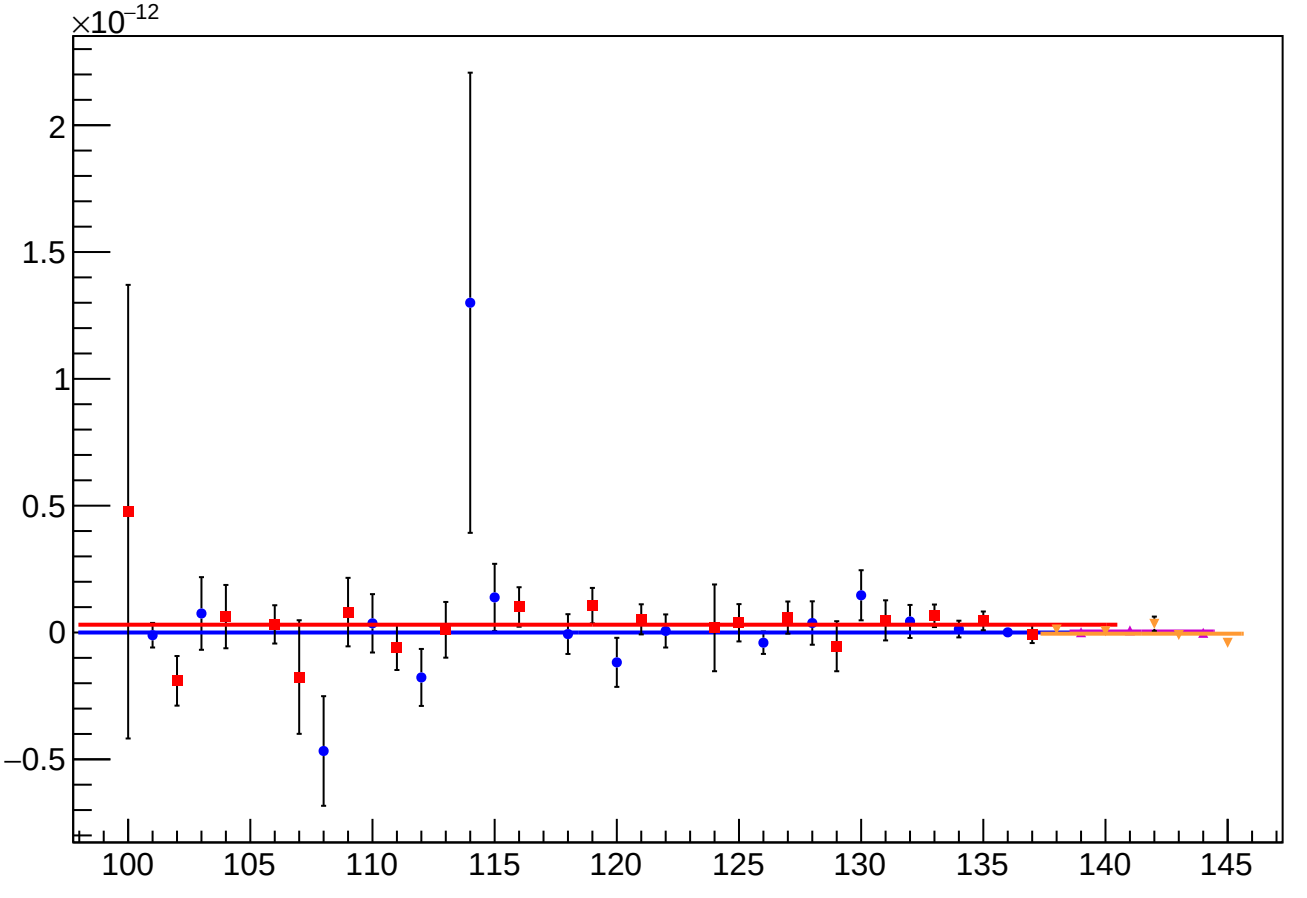
Left: 1886.621+/-0.531 $\chi^2$/NDF: 19859.4/7

Right: 2159.645+/-0.412 $\chi^2$/NDF: 1824183.5/34

In: 2038.157+/-0.470 $\chi^2$/NDF:946107.9/18

Out: 2074.523+/-0.451 $\chi^2$/NDF:1060003.4/23

All: 2057.102+/-0.325 $\chi^2$/NDF: 2009230.0/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.3/2

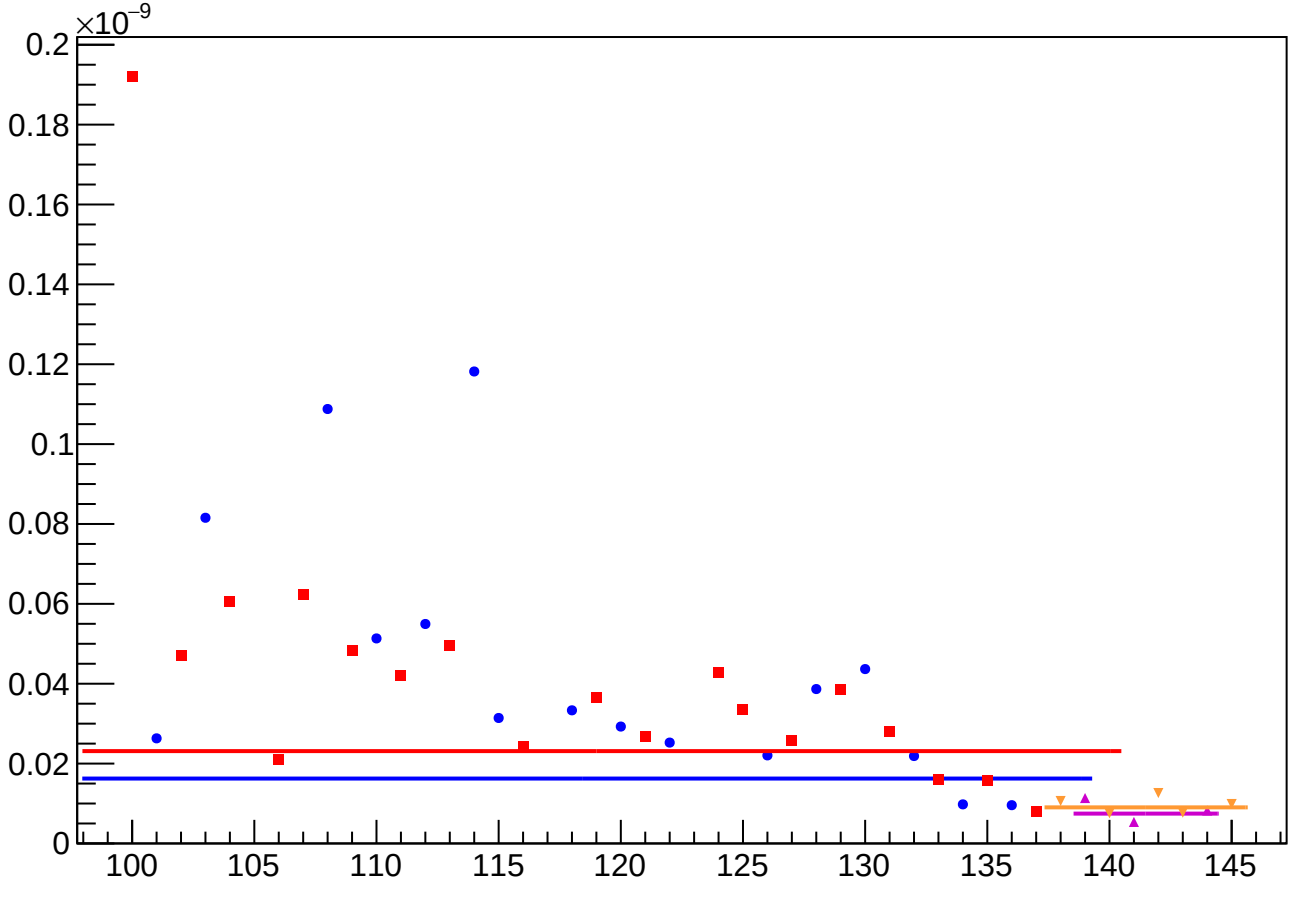
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:24.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 41.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2286703.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:91817.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1411720.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:170163.5/2

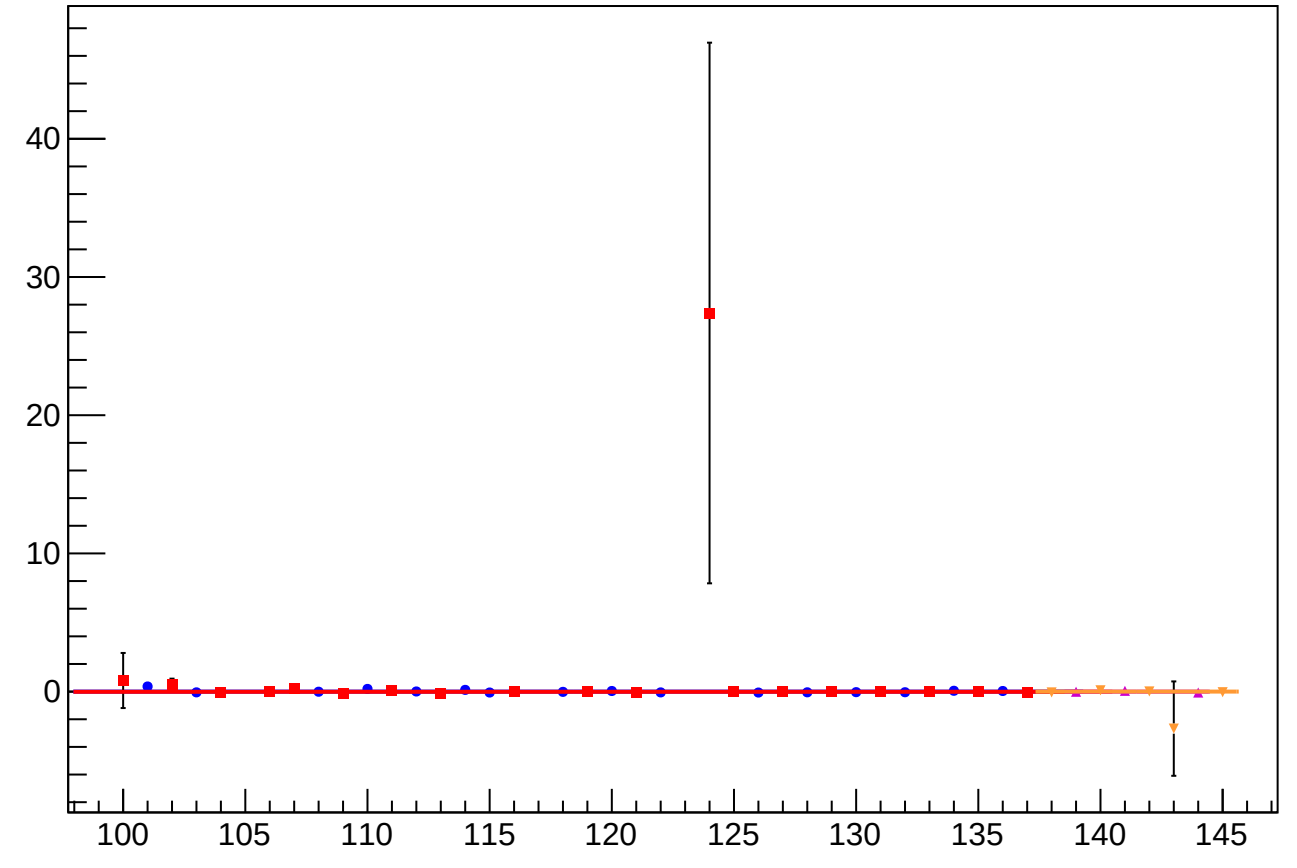
Left: 0.000+/-0.000 $\chi^2$/NDF: 303560.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3942397.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3222015.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2811920.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6086526.6/42




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: 0.003+/-0.022 $\chi^2$/NDF:9.8/4

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.003+/-0.022 $\chi^2$/NDF:5.5/2

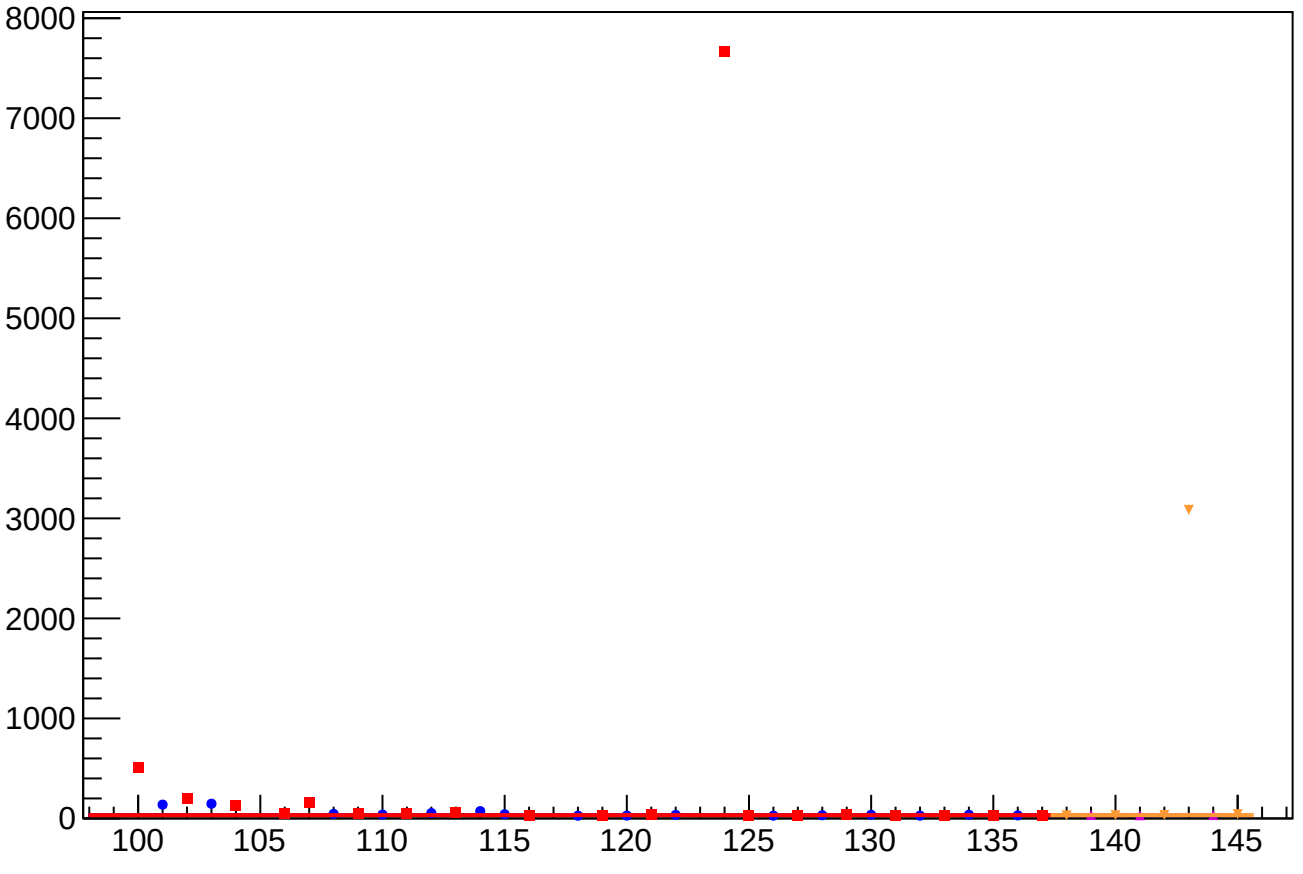
Left: 0.000+/-0.016 $\chi^2$/NDF: 15.4/7

Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: 0.000+/-0.012 $\chi^2$/NDF:26.6/18

Out: -0.007+/-0.012 $\chi^2$/NDF:24.3/23

All: -0.003+/-0.009 $\chi^2$/NDF: 51.1/42




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717266.1/15

Left Out: 33.830+/-0.015 $\chi^2$/NDF:1675512.8/4

Right Out: 33.084+/-0.011 $\chi^2$/NDF: 2075124.6/18

Left In: 34.067+/-0.016 $\chi^2$/NDF:9632.9/2

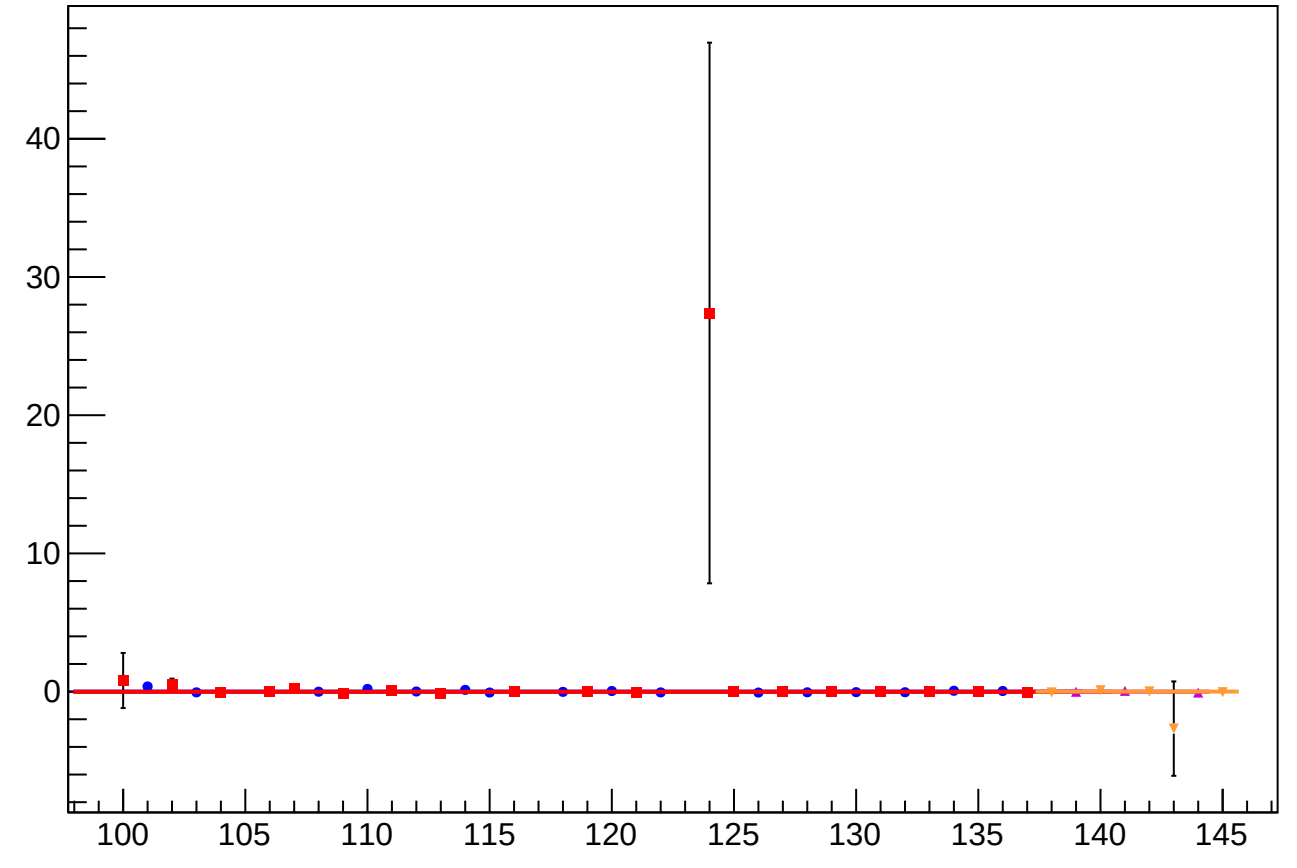
Left: 33.944+/-0.011 $\chi^2$/NDF: 1685262.4/7

Right: 33.573+/-0.007 $\chi^2$/NDF: 3796696.6/34

In: 34.059+/-0.009 $\chi^2$/NDF:1726899.3/18

Out: 33.324+/-0.009 $\chi^2$/NDF:3752260.3/23

All: 33.689+/-0.006 $\chi^2$/NDF: 5482746.1/42




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: 0.003+/-0.022 $\chi^2$/NDF:9.8/4

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.003+/-0.022 $\chi^2$/NDF:5.5/2

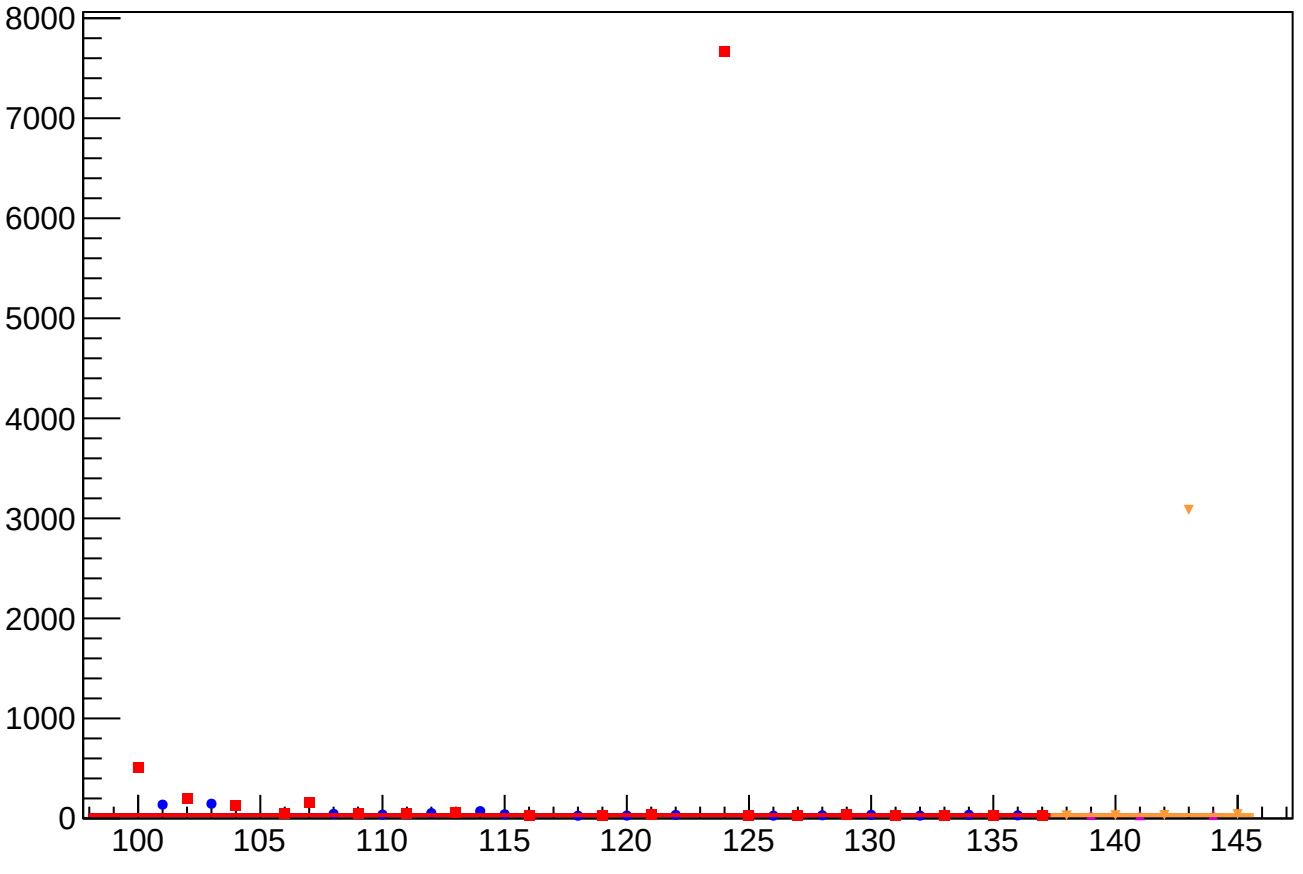
Left: 0.000+/-0.016 $\chi^2$/NDF: 15.4/7

Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: 0.000+/-0.012 $\chi^2$/NDF:26.6/18

Out: -0.007+/-0.012 $\chi^2$/NDF:24.3/23

All: -0.003+/-0.009 $\chi^2$/NDF: 51.1/42




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717266.1/15

Left Out: 33.830+/-0.015 $\chi^2$/NDF:1675512.8/4

Right Out: 33.084+/-0.011 $\chi^2$/NDF: 2075124.6/18

Left In: 34.067+/-0.016 $\chi^2$/NDF:9632.9/2

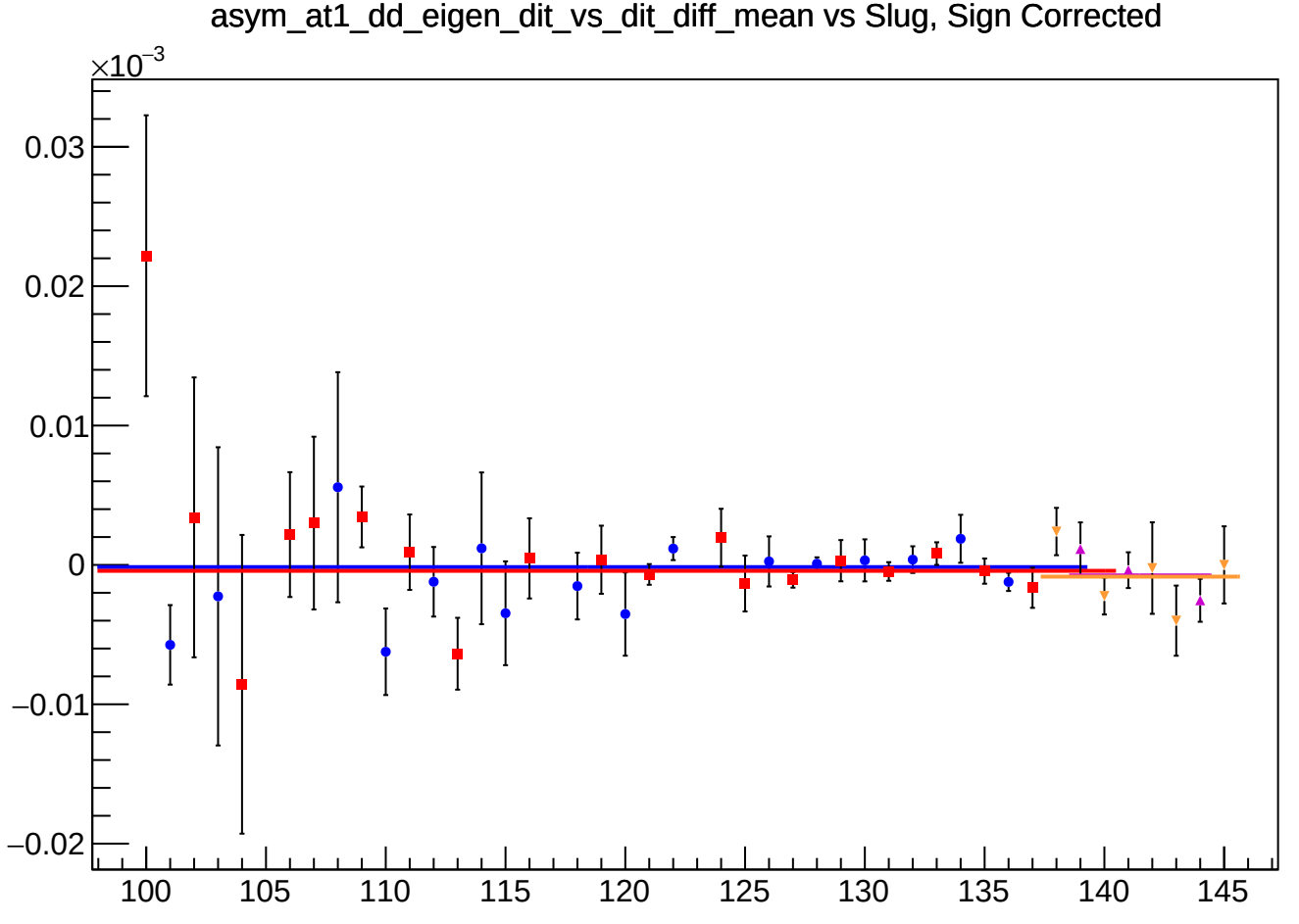
Left: 33.944+/-0.011 $\chi^2$/NDF: 1685262.4/7

Right: 33.573+/-0.007 $\chi^2$/NDF: 3796696.6/34

In: 34.059+/-0.009 $\chi^2$/NDF:1726899.3/18

Out: 33.324+/-0.009 $\chi^2$/NDF:3752260.3/23

All: 33.689+/-0.006 $\chi^2$/NDF: 5482746.1/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.4/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.4/2

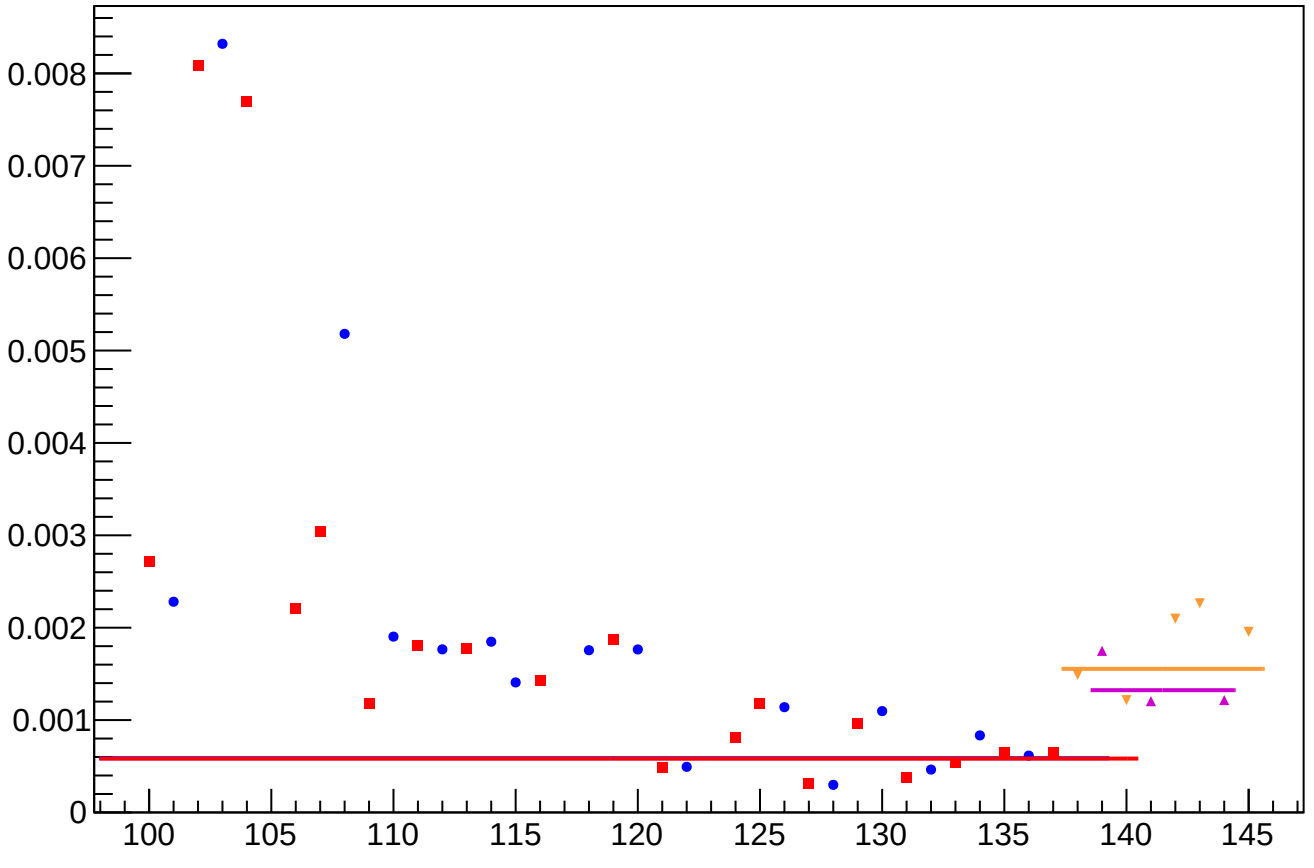
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:28.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 49.6/42




Right In: 0.001+/-0.000 $\chi^2$/NDF: 5485949.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:388905.9/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5431787.1/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:126590.1/2

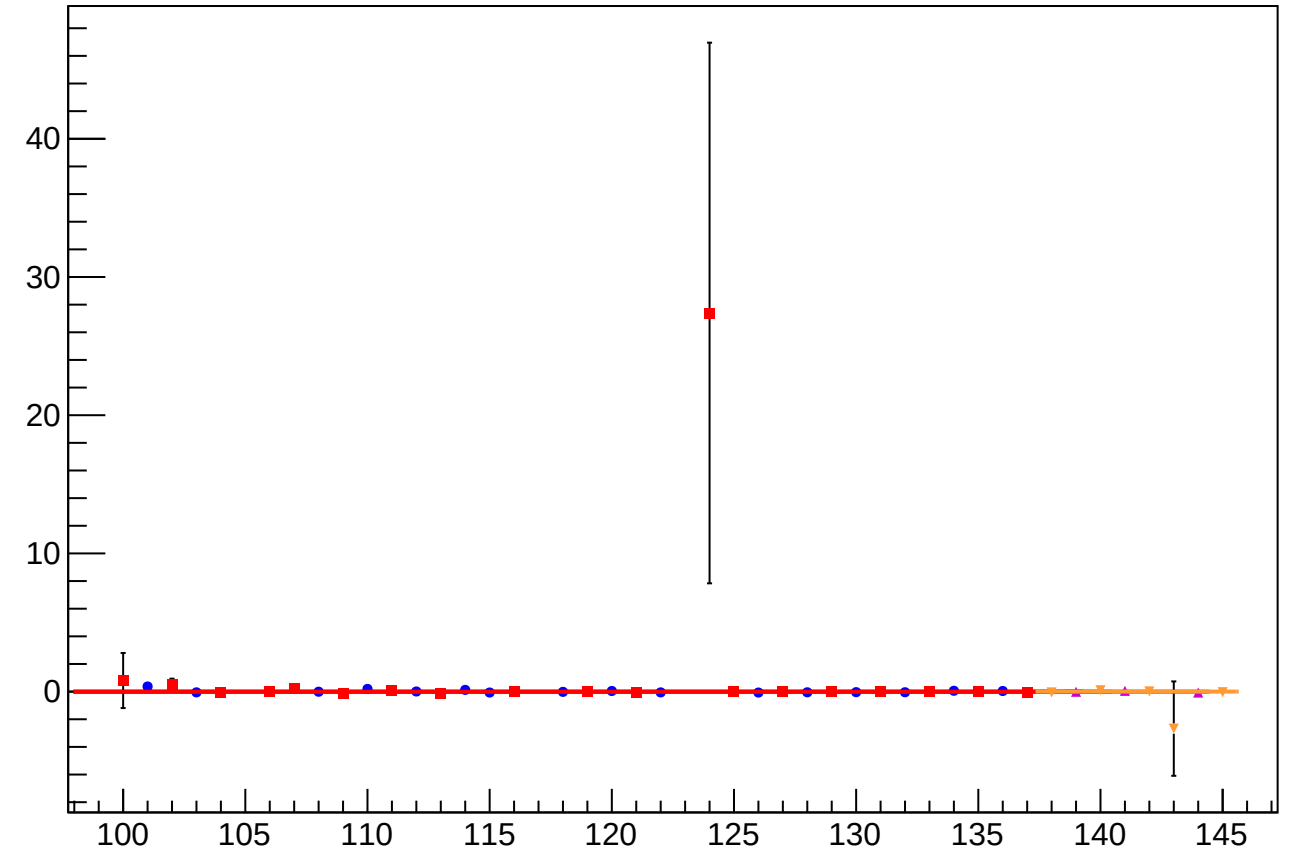
Left: 0.001+/-0.000 $\chi^2$/NDF: 584690.8/7

Right: 0.001+/-0.000 $\chi^2$/NDF: 10917885.2/34

In: 0.001+/-0.000 $\chi^2$/NDF:6884508.6/18

Out: 0.001+/-0.000 $\chi^2$/NDF:8031357.8/23

All: 0.001+/-0.000 $\chi^2$/NDF: 14918619.8/42




Right In: 0.002+/-0.015 $\chi^2$/NDF: 21.0/15

Left Out: 0.003+/-0.022 $\chi^2$/NDF:9.8/4

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.003+/-0.022 $\chi^2$/NDF:5.5/2

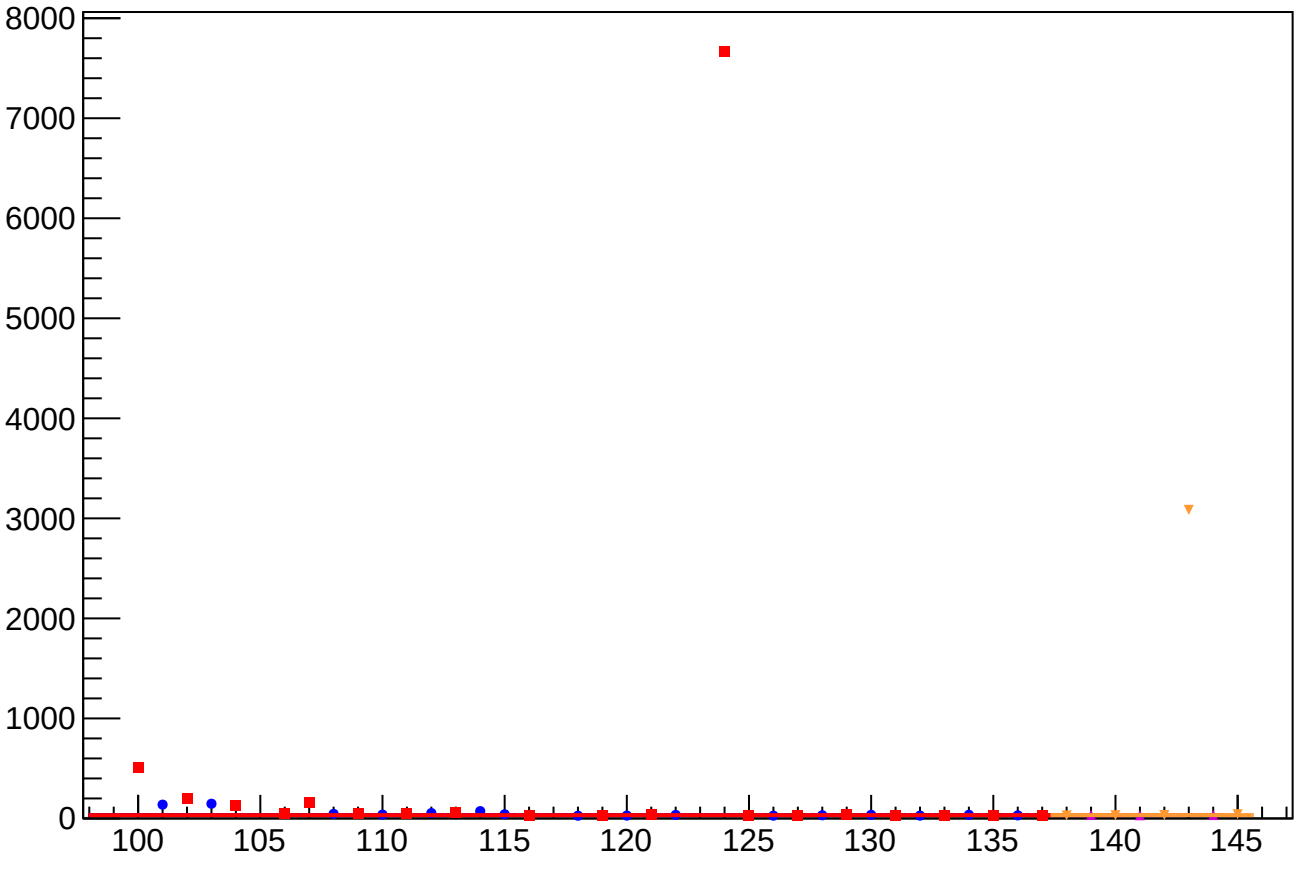
Left: 0.000+/-0.016 $\chi^2$/NDF: 15.4/7

Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: 0.000+/-0.012 $\chi^2$/NDF:26.6/18

Out: -0.007+/-0.012 $\chi^2$/NDF:24.3/23

All: -0.003+/-0.009 $\chi^2$/NDF: 51.1/42




Right In: 34.055+/-0.010 $\chi^2$/NDF: 1717254.5/15

Left Out: 33.830+/-0.015 $\chi^2$/NDF:1675517.4/4

Right Out: 33.083+/-0.011 $\chi^2$/NDF: 2075105.8/18

Left In: 34.067+/-0.016 $\chi^2$/NDF:9632.4/2

Left: 33.944+/-0.011 $\chi^2$/NDF: 1685266.7/7

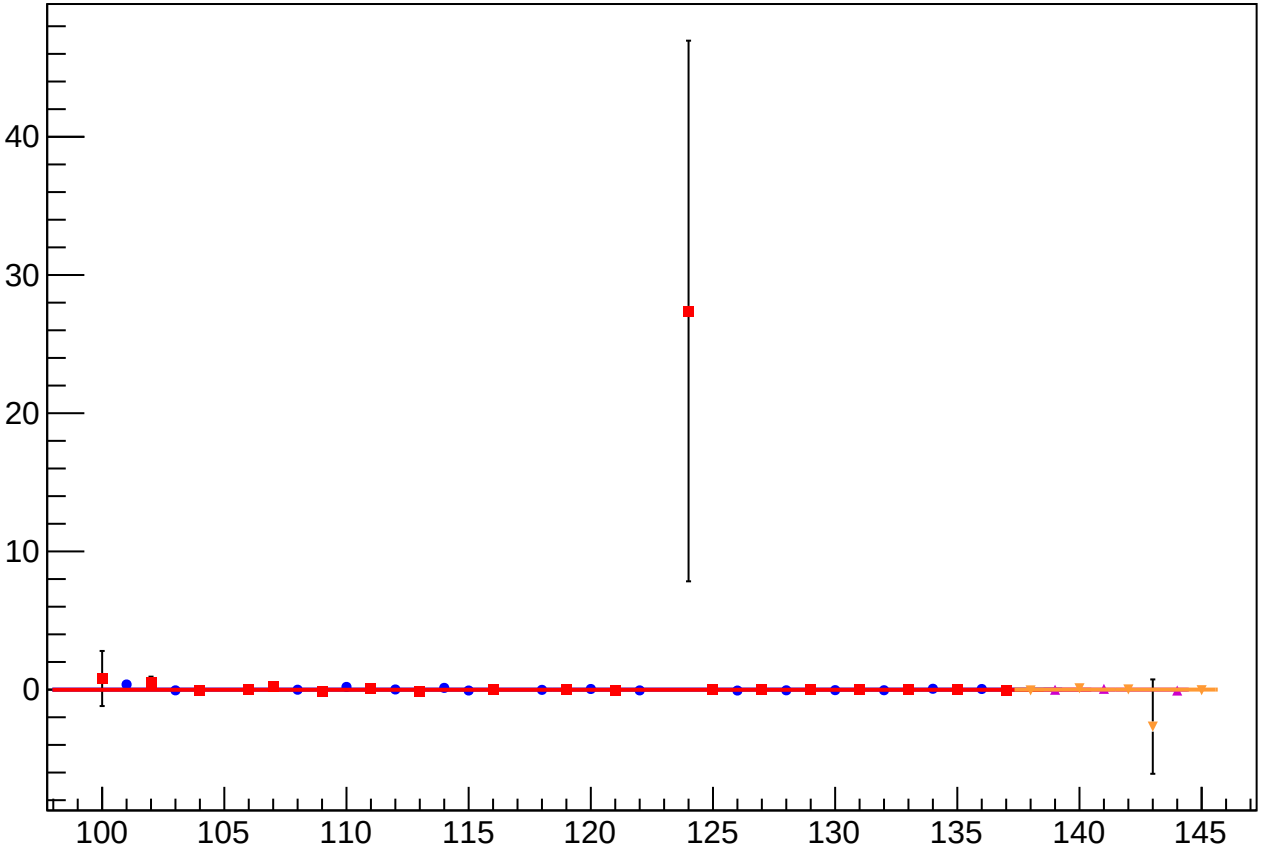
Right: 33.573+/-0.007 $\chi^2$/NDF: 3796667.3/34

In: 34.059+/-0.009 $\chi^2$/NDF:1726887.2/18

Out: 33.324+/-0.009 $\chi^2$/NDF:3752245.5/23

All: 33.689+/-0.006 $\chi^2$/NDF: 5482720.8/42

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: 0.003+/-0.022 $\chi^2$/NDF:9.8/4

Right Out: -0.012+/-0.015 $\chi^2$/NDF: 14.2/18

Left In: -0.003+/-0.022 $\chi^2$/NDF:5.5/2

Left: 0.000+/-0.016 $\chi^2$/NDF: 15.4/7

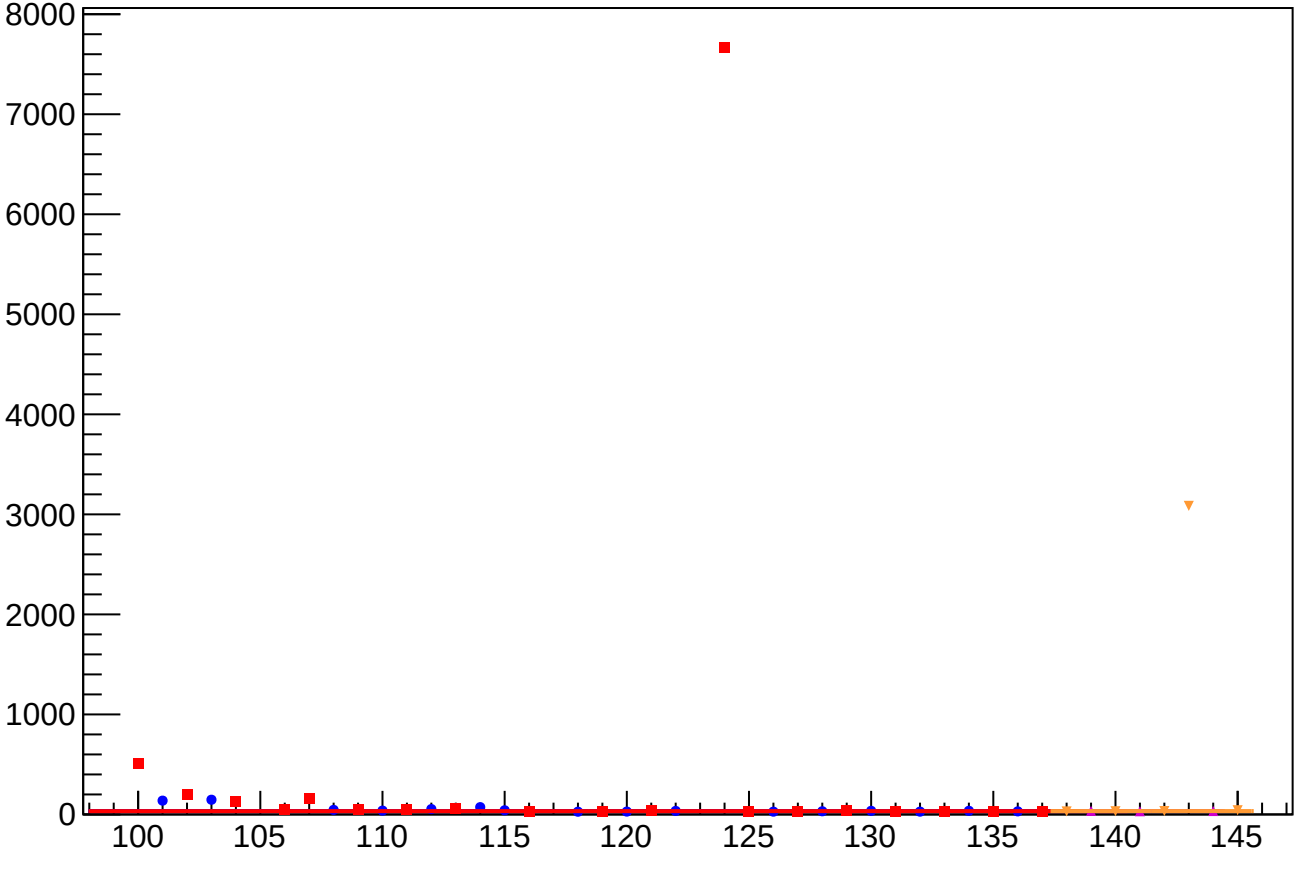
Right: -0.005+/-0.010 $\chi^2$/NDF: 35.6/34

In: 0.000+/-0.012 $\chi^2$/NDF:26.6/18

Out: -0.007+/-0.012 $\chi^2$/NDF:24.3/23

All: -0.003+/-0.009 $\chi^2$/NDF: 51.1/42

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: 33.830+/-0.015 $\chi^2$/NDF:1675517.4/4

Right Out: 33.083+/-0.011 $\chi^2$/NDF: 2075105.8/18

Left In: 34.067+/-0.016 $\chi^2$/NDF:9632.4/2

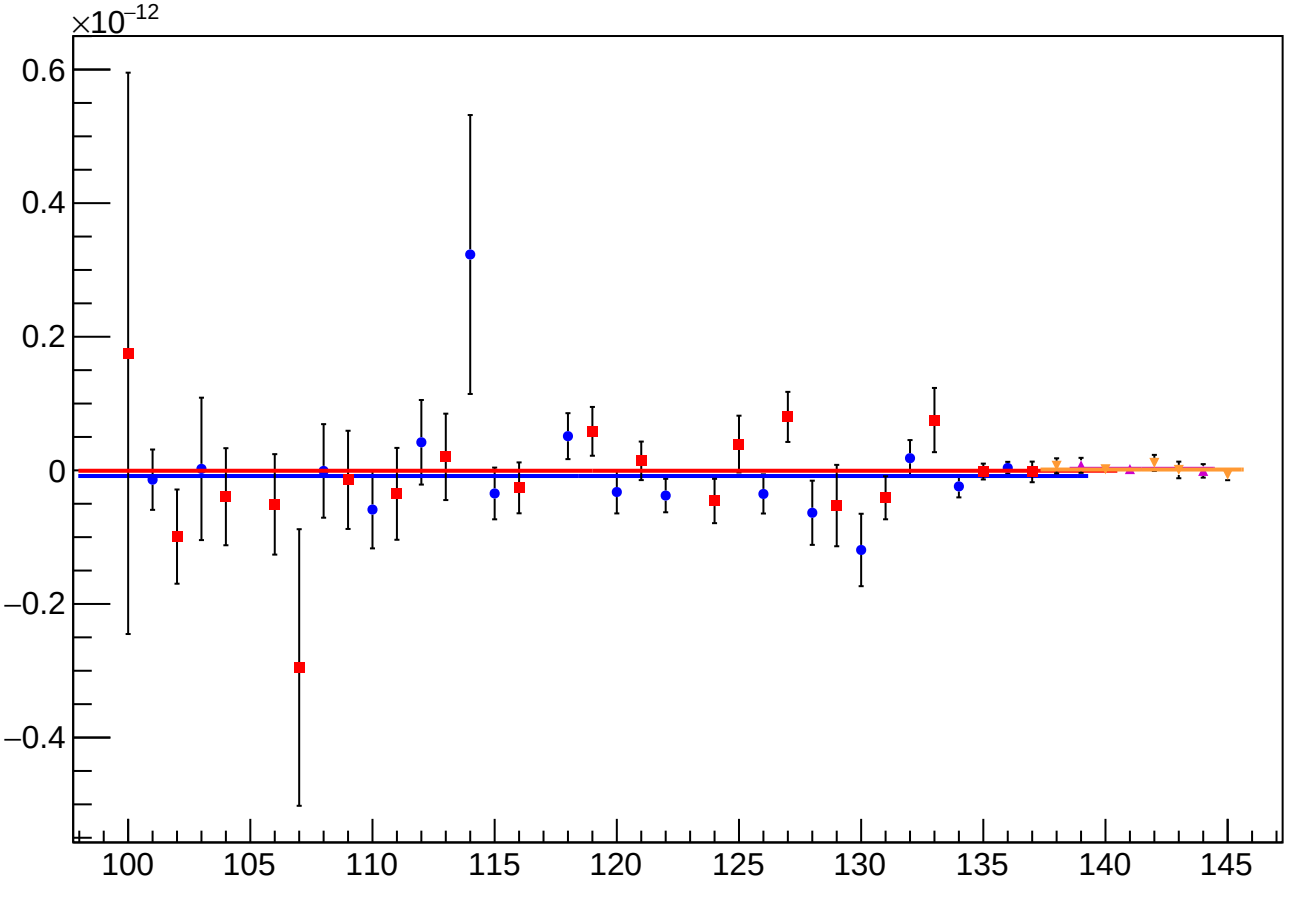
Left: 33.944+/-0.011 $\chi^2$/NDF: 1685266.7/7

Right: 33.573+/-0.007 $\chi^2$/NDF: 3796667.3/34

In: 34.059+/-0.009 $\chi^2$/NDF:1726887.2/18

Out: 33.324+/-0.009 $\chi^2$/NDF:3752245.5/23

All: 33.689+/-0.006 $\chi^2$/NDF: 5482720.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.8/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.3/2

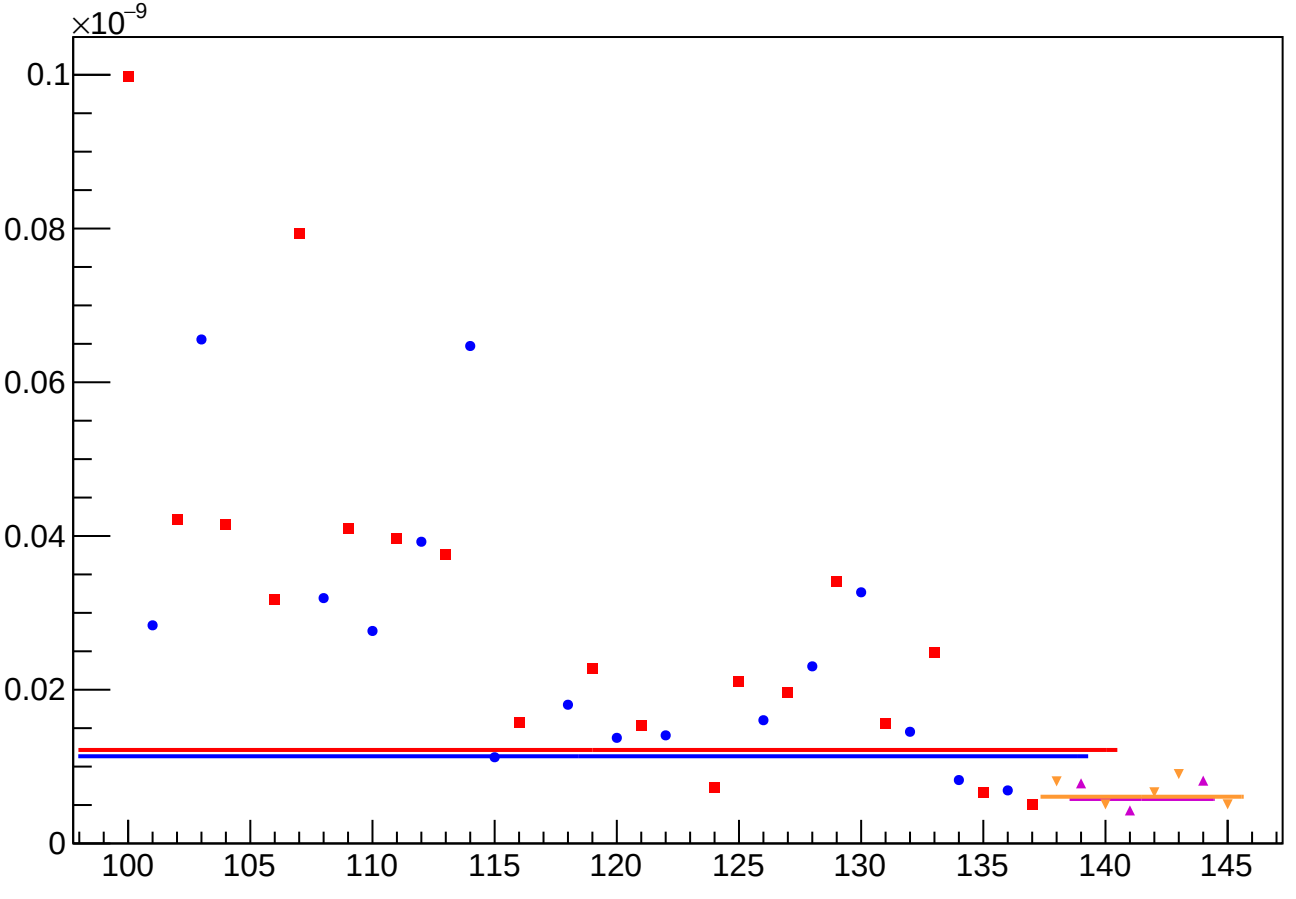
Left: 0.000+/-0.000 $\chi^2$/NDF: 2.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 44.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2813598.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:257359.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3757412.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:293481.3/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 555186.5/7

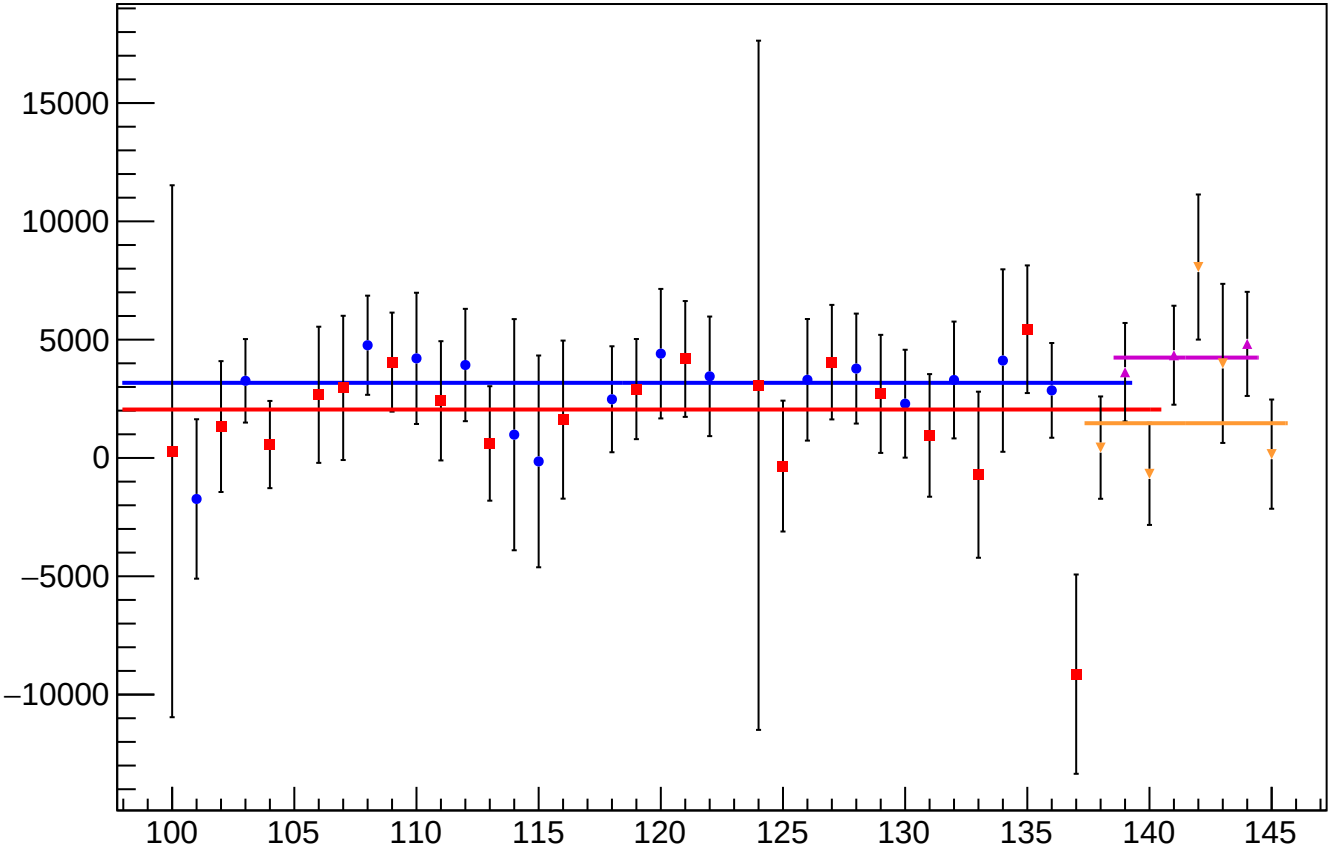
Right: 0.000+/-0.000 $\chi^2$/NDF: 6585389.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:4076816.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5085060.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9165813.3/42

# reg_asym_at2_avg_mean vs Slug, Sign Corrected




Right In: 3175.599+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 1468.454+/-1110.410 $\chi^2$/NDF:6.7/4

Right Out: 2047.403+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 4241.799+/-1225.177 $\chi^2$/NDF:0.2/2

Left: 2719.177+/-822.768 $\chi^2$/NDF: 9.7/7

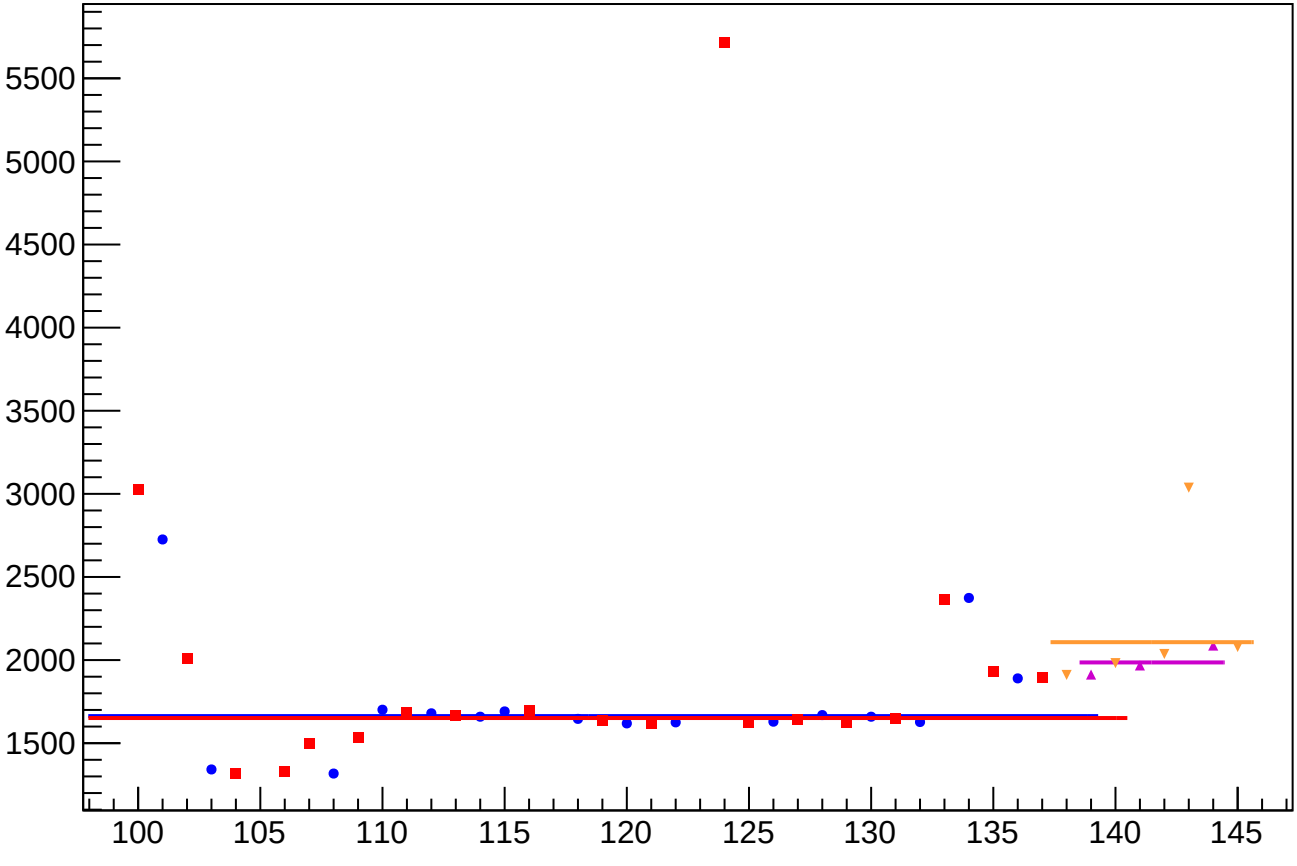
Right: 2605.638+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3397.438+/-558.854 $\chi^2$/NDF:5.1/18

Out: 1909.301+/-542.330 $\chi^2$/NDF:21.0/23

All: 2631.043+/-389.196 $\chi^2$/NDF: 29.7/42

# reg_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415630.7/15

Left Out: 2107.693+/-0.785 $\chi^2$/NDF:177754.7/4

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.1/18

Left In: 1985.803+/-0.866 $\chi^2$/NDF:6861.9/2

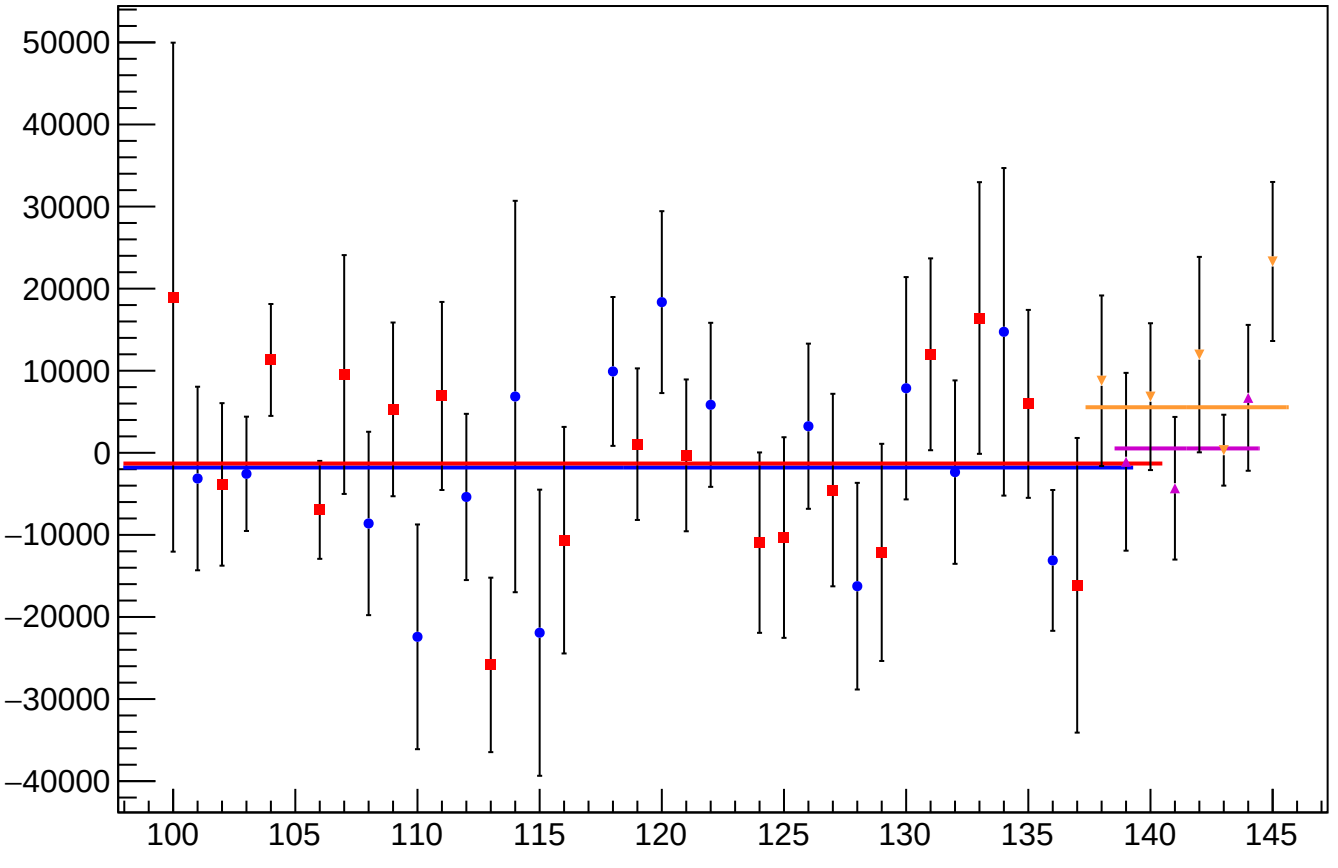
Left: 2052.723+/-0.582 $\chi^2$/NDF: 195484.7/7

Right: 1657.052+/-0.312 $\chi^2$/NDF: 847939.4/34

In: 1730.086+/-0.395 $\chi^2$/NDF:532510.0/18

Out: 1760.184+/-0.383 $\chi^2$/NDF:866964.5/23

All: 1745.587+/-0.275 $\chi^2$/NDF: 1402462.1/42




Right In: -1791.030+/-2743.617 $\chi^2$/NDF: 14.3/15

Left Out: 5550.906+/-3277.524 $\chi^2$/NDF:5.2/4

Right Out: -1306.311+/-2430.063 $\chi^2$/NDF: 17.7/18

Left In: 532.472+/-5388.798 $\chi^2$/NDF:0.8/2

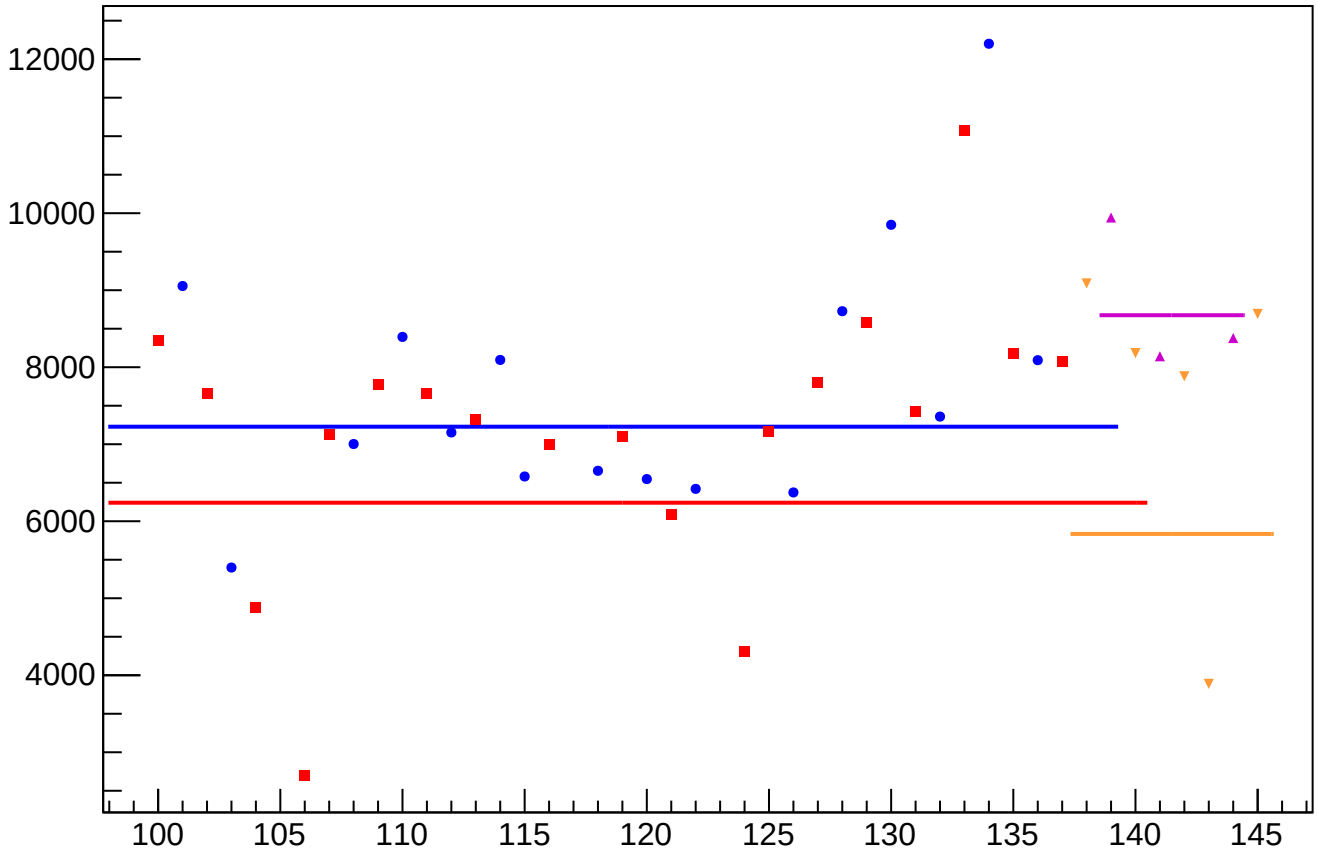
Left: 4195.776+/-2800.259 $\chi^2$/NDF: 6.7/7

Right: -1519.402+/-1819.116 $\chi^2$/NDF: 32.1/34

In: -1312.724+/-2444.969 $\chi^2$/NDF:15.3/18

Out: 1126.103+/-1952.049 $\chi^2$/NDF:25.8/23

All: 176.696+/-1525.488 $\chi^2$/NDF: 41.7/42




Right In: 7227.590+/-1.940 $\chi^2$/NDF: 503260.9/15

Left Out: 5834.938+/-2.318 $\chi^2$/NDF:973402.3/4

Right Out: 6240.557+/-1.718 $\chi^2$/NDF: 1399077.4/18

Left In: 8675.378+/-3.810 $\chi^2$/NDF:37208.6/2

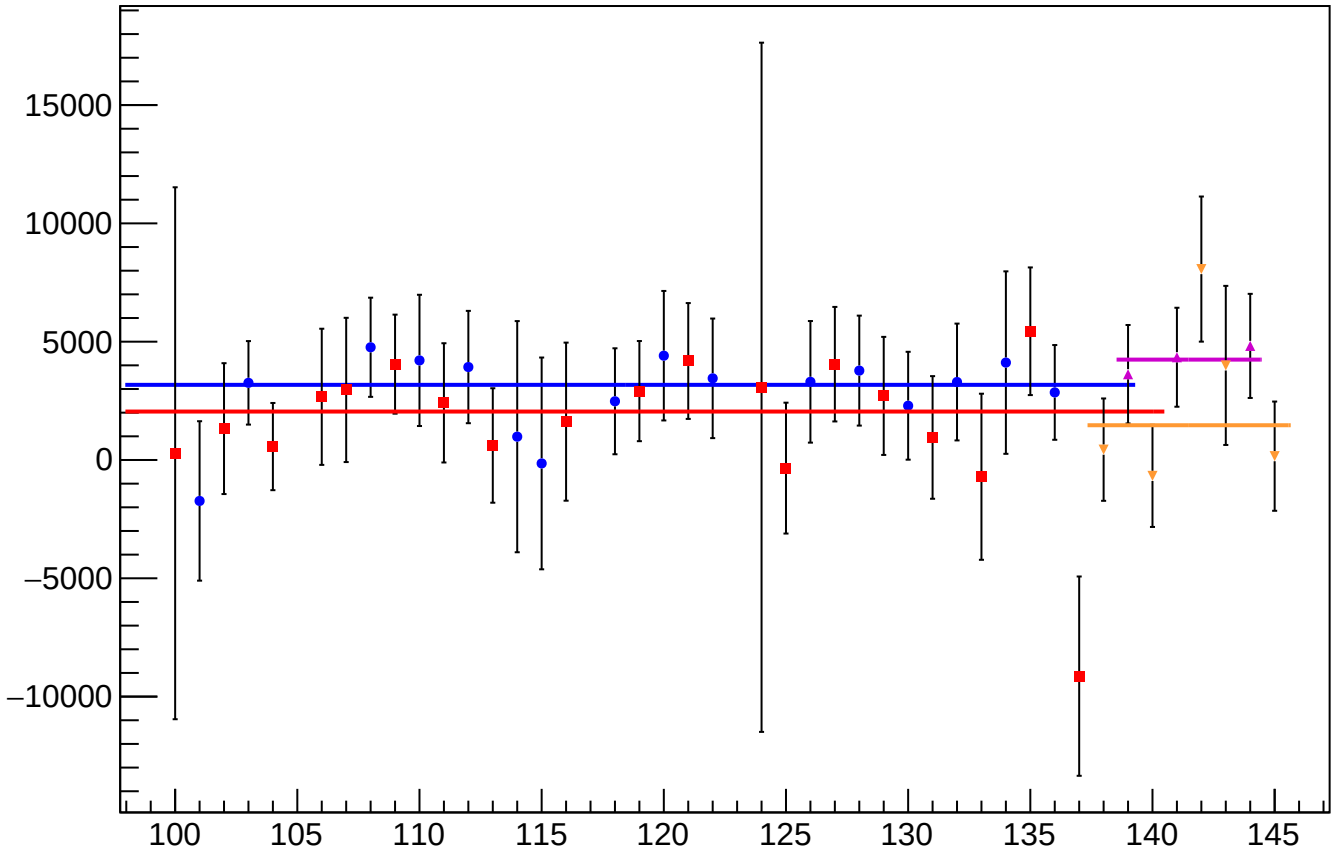
Left: 6601.943+/-1.980 $\chi^2$/NDF: 1416233.4/7

Right: 6674.473+/-1.286 $\chi^2$/NDF: 2047393.1/34

In: 7525.625+/-1.729 $\chi^2$/NDF:655114.6/18

Out: 6096.675+/-1.380 $\chi^2$/NDF:2392245.8/23

All: 6652.948+/-1.079 $\chi^2$/NDF: 3464570.1/42




Right In: 3175.689+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 1468.578+/-1110.410 $\chi^2$/NDF:6.7/4

Right Out: 2047.209+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 4242.023+/-1225.177 $\chi^2$/NDF:0.2/2

Left: 2719.346+/-822.768 $\chi^2$/NDF: 9.7/7

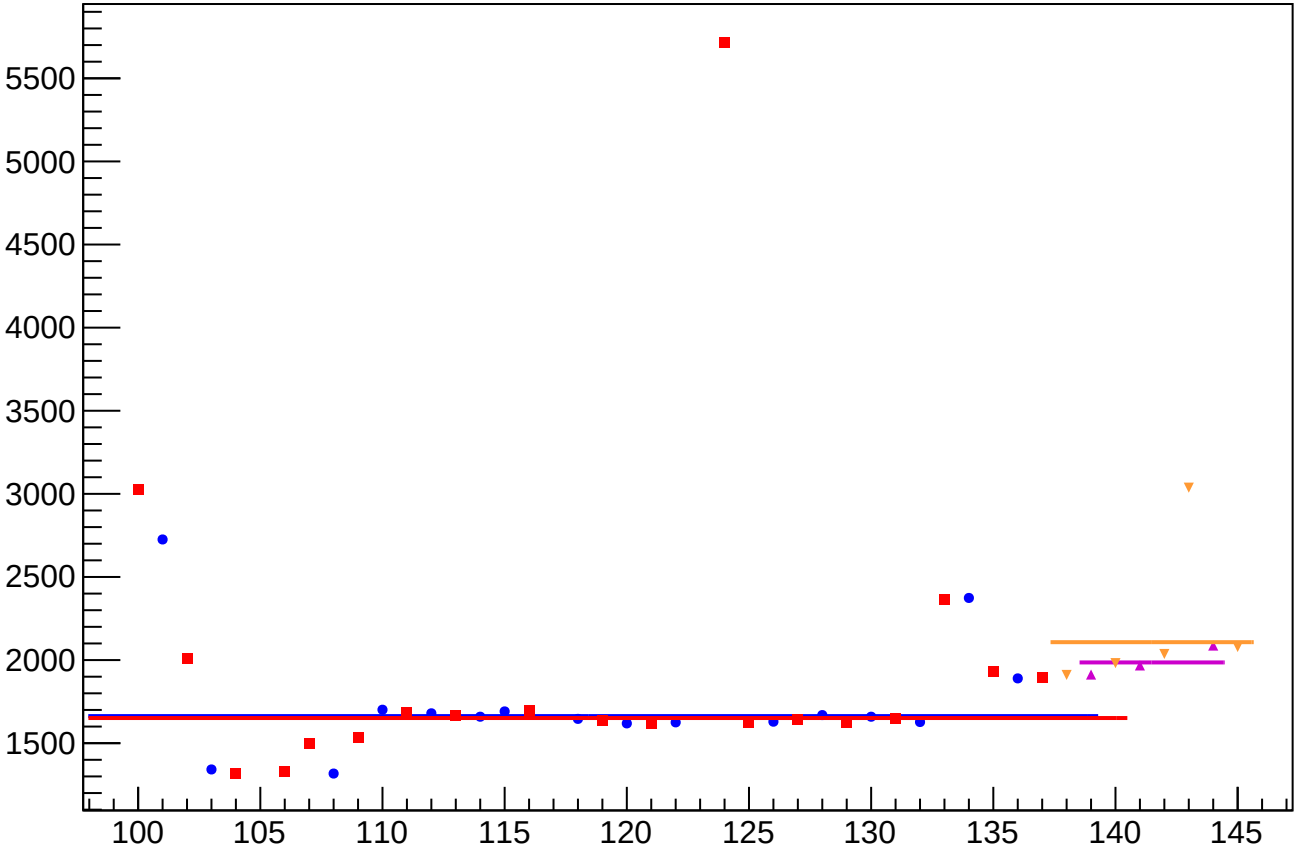
Right: 2605.584+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3397.556+/-558.854 $\chi^2$/NDF:5.1/18

Out: 1909.183+/-542.330 $\chi^2$/NDF:21.0/23

All: 2631.039+/-389.196 $\chi^2$/NDF: 29.7/42

# cor_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415631.0/15

Left Out: 2107.693+/-0.785 $\chi^2$/NDF:177754.7/4

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.2/18

Left In: 1985.803+/-0.866 $\chi^2$/NDF:6861.9/2

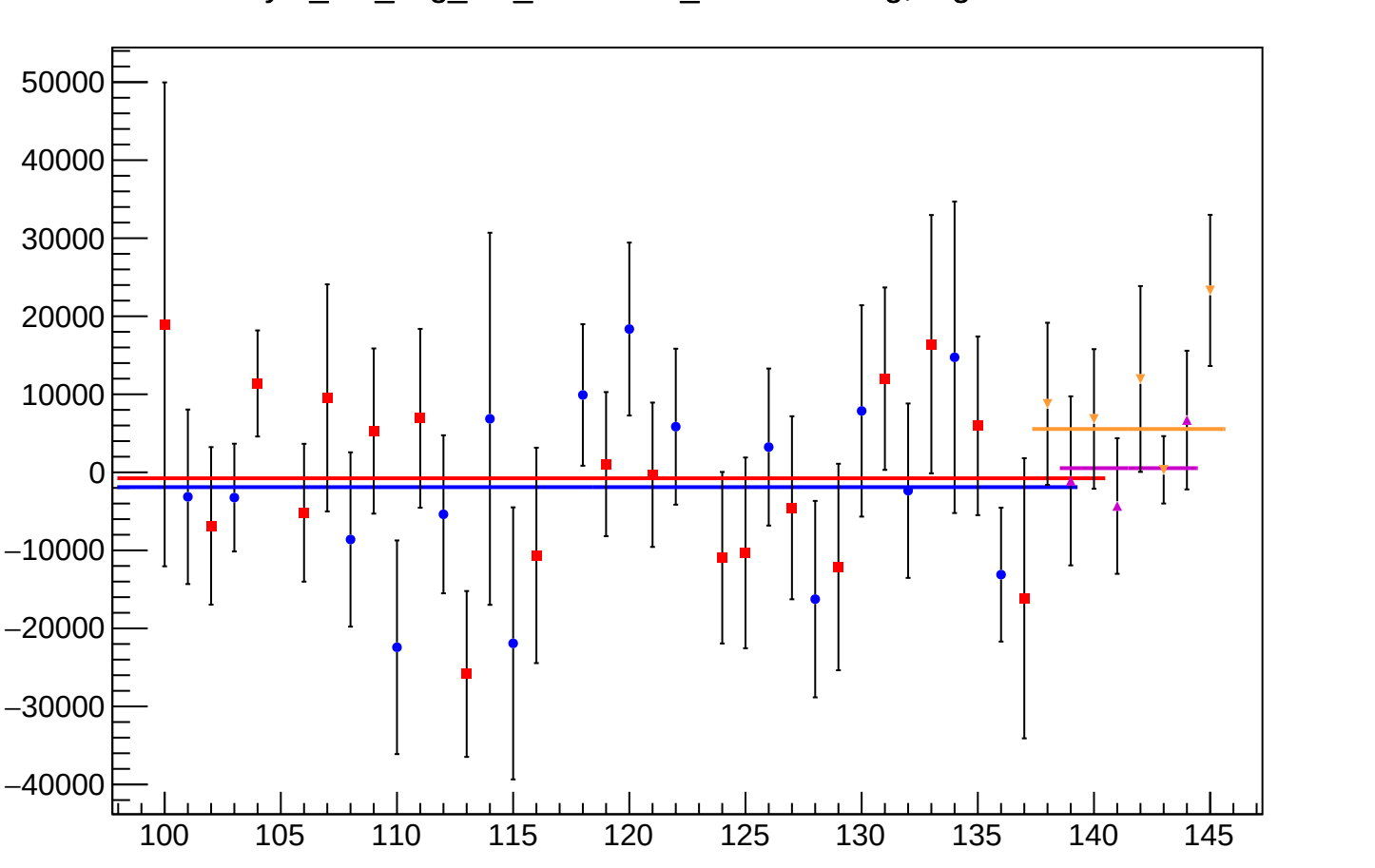
Left: 2052.723+/-0.582 $\chi^2$/NDF: 195484.7/7

Right: 1657.051+/-0.312 $\chi^2$/NDF: 847939.7/34

In: 1730.086+/-0.395 $\chi^2$/NDF:532510.4/18

Out: 1760.184+/-0.383 $\chi^2$/NDF:866964.8/23

All: 1745.586+/-0.275 $\chi^2$/NDF: 1402462.8/42




Right In: -1900.125+/-2739.954 $\chi^2$/NDF: 14.4/15

Left Out: 5550.726+/-3277.502 $\chi^2$/NDF:5.2/4

Right Out: -762.513+/-2549.943 $\chi^2$/NDF: 17.3/18

Left In: 532.544+/-5388.793 $\chi^2$/NDF:0.8/2

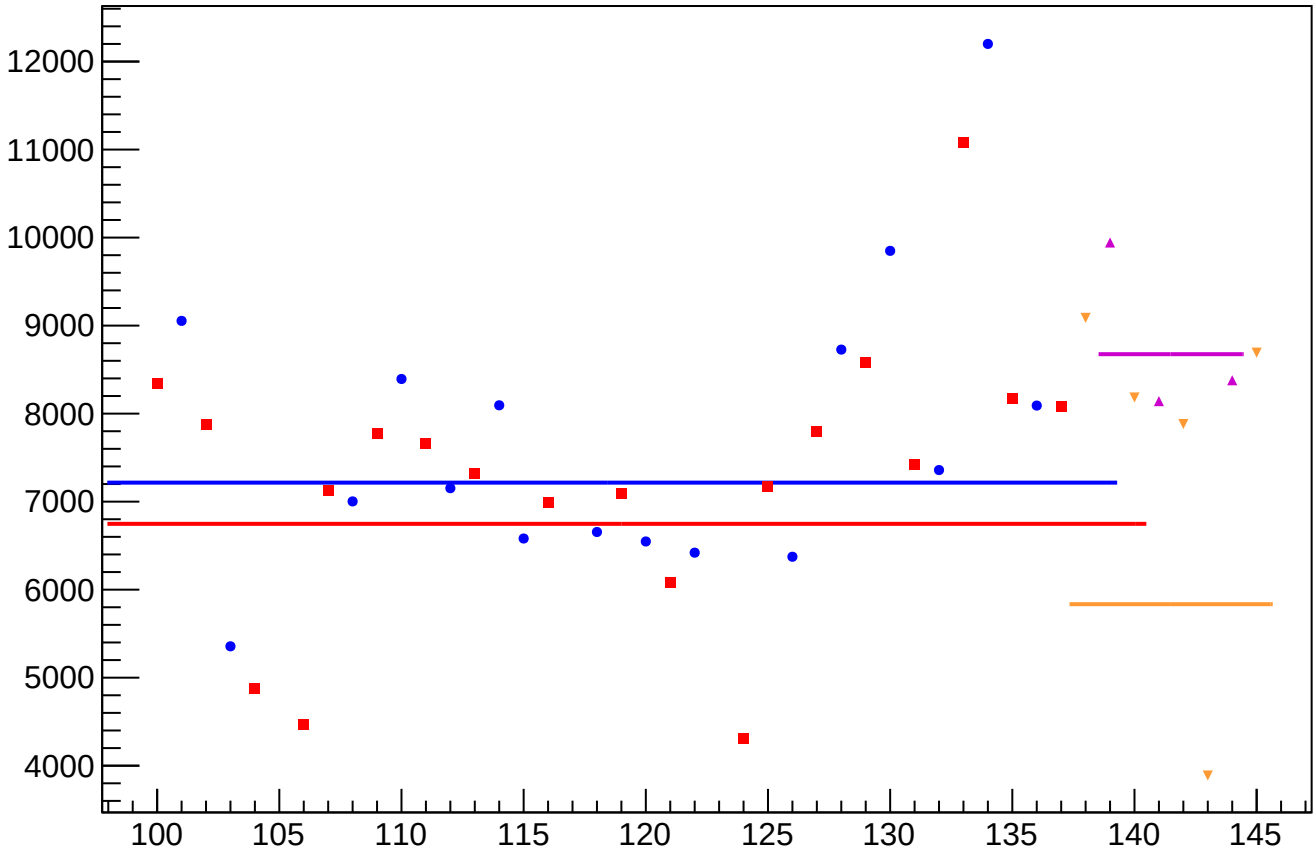
Left: 4195.676+/-2800.245 $\chi^2$/NDF: 6.7/7

Right: -1290.509+/-1866.644 $\chi^2$/NDF: 31.7/34

In: -1400.408+/-2442.375 $\chi^2$/NDF:15.3/18

Out: 1617.994+/-2012.573 $\chi^2$/NDF:24.8/23

All: 397.316+/-1553.189 $\chi^2$/NDF: 41.1/42




Right In: 7216.029+/-1.937 $\chi^2$/NDF: 512126.4/15

Left Out: 5834.888+/-2.318 $\chi^2$/NDF:973424.3/4

Right Out: 6747.736+/-1.803 $\chi^2$/NDF: 708793.3/18

Left In: 8675.369+/-3.810 $\chi^2$/NDF:37208.8/2

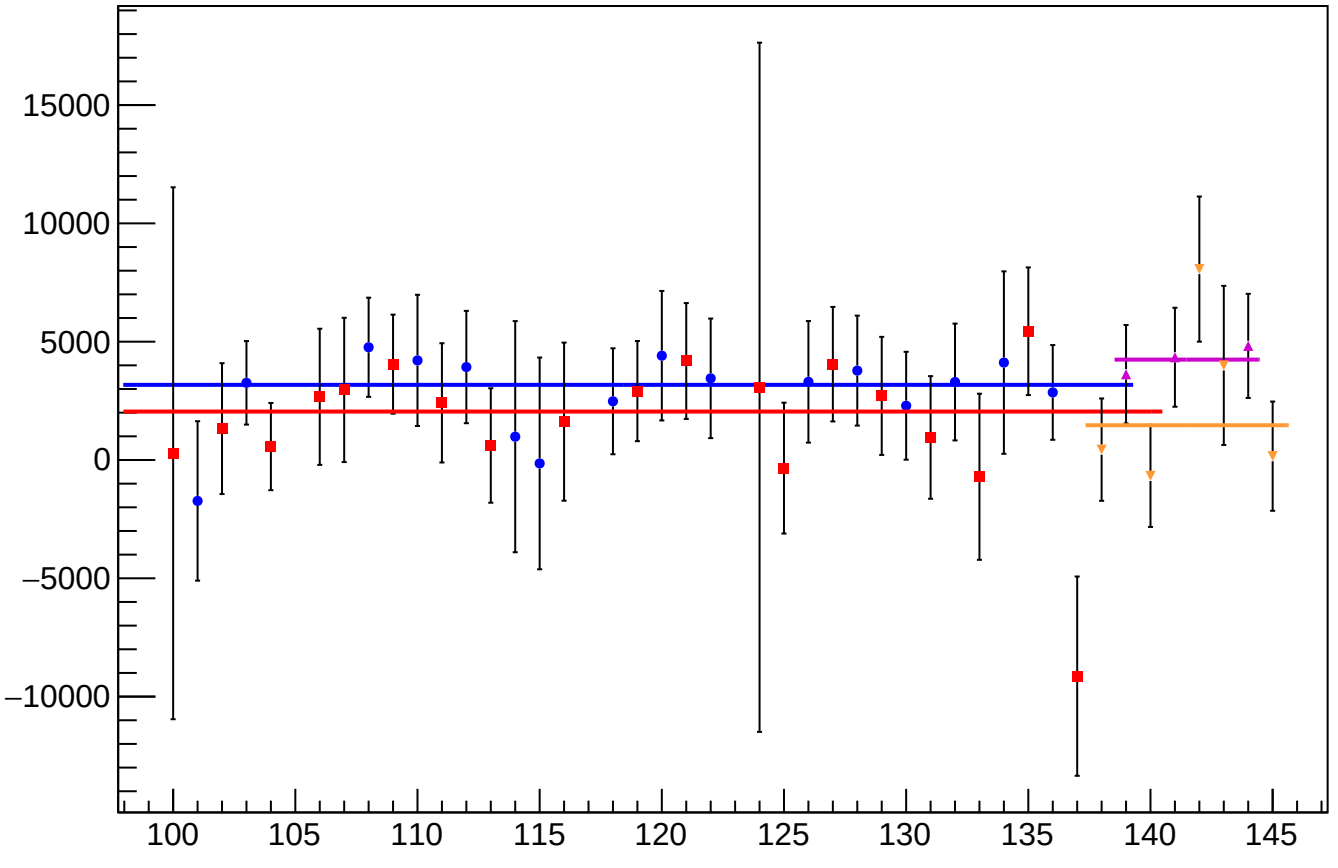
Left: 6601.898+/-1.980 $\chi^2$/NDF: 1416269.5/7

Right: 6965.084+/-1.320 $\chi^2$/NDF: 1252226.6/34

In: 7515.806+/-1.727 $\chi^2$/NDF:665881.3/18

Out: 6403.532+/-1.423 $\chi^2$/NDF:1778863.5/23

All: 6853.350+/-1.098 $\chi^2$/NDF: 2691788.9/42




Right In: 3175.689+/-627.992 $\chi^2$/NDF: 4.3/15

Left Out: 1468.578+/-1110.410 $\chi^2$/NDF:6.7/4

Right Out: 2047.209+/-621.498 $\chi^2$/NDF: 14.0/18

Left In: 4242.023+/-1225.177 $\chi^2$/NDF:0.2/2

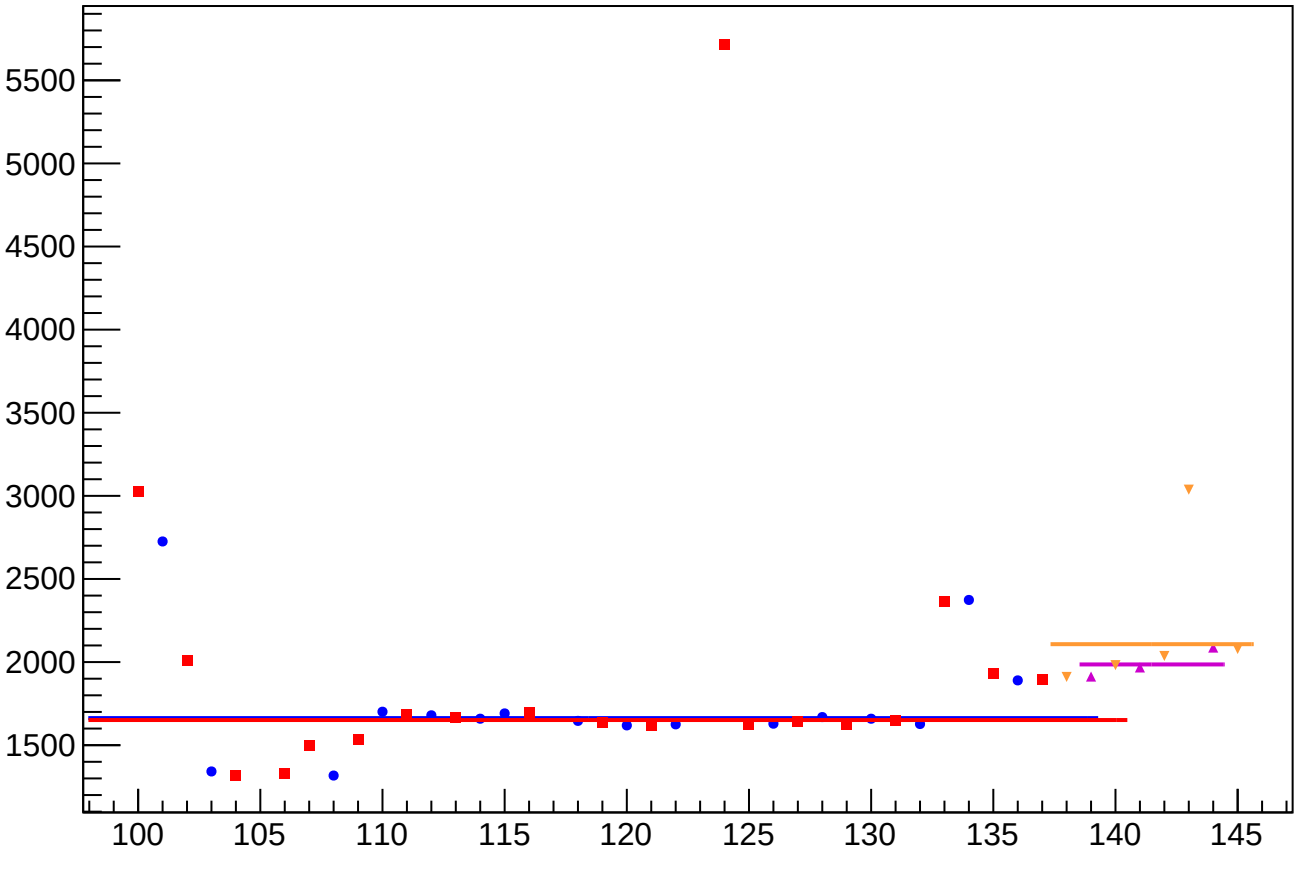
Left: 2719.346+/-822.768 $\chi^2$/NDF: 9.7/7

Right: 2605.584+/-441.744 $\chi^2$/NDF: 20.0/34

In: 3397.556+/-558.854 $\chi^2$/NDF:5.1/18

Out: 1909.183+/-542.330 $\chi^2$/NDF:21.0/23

All: 2631.039+/-389.196 $\chi^2$/NDF: 29.7/42




Right In: 1662.901+/-0.444 $\chi^2$/NDF: 415631.0/15

Left Out: 2107.693+/-0.785 $\chi^2$/NDF:177754.7/4

Right Out: 1651.322+/-0.439 $\chi^2$/NDF: 431965.2/18

Left In: 1985.803+/-0.866 $\chi^2$/NDF:6861.9/2

Left: 2052.723+/-0.582 $\chi^2$/NDF: 195484.7/7

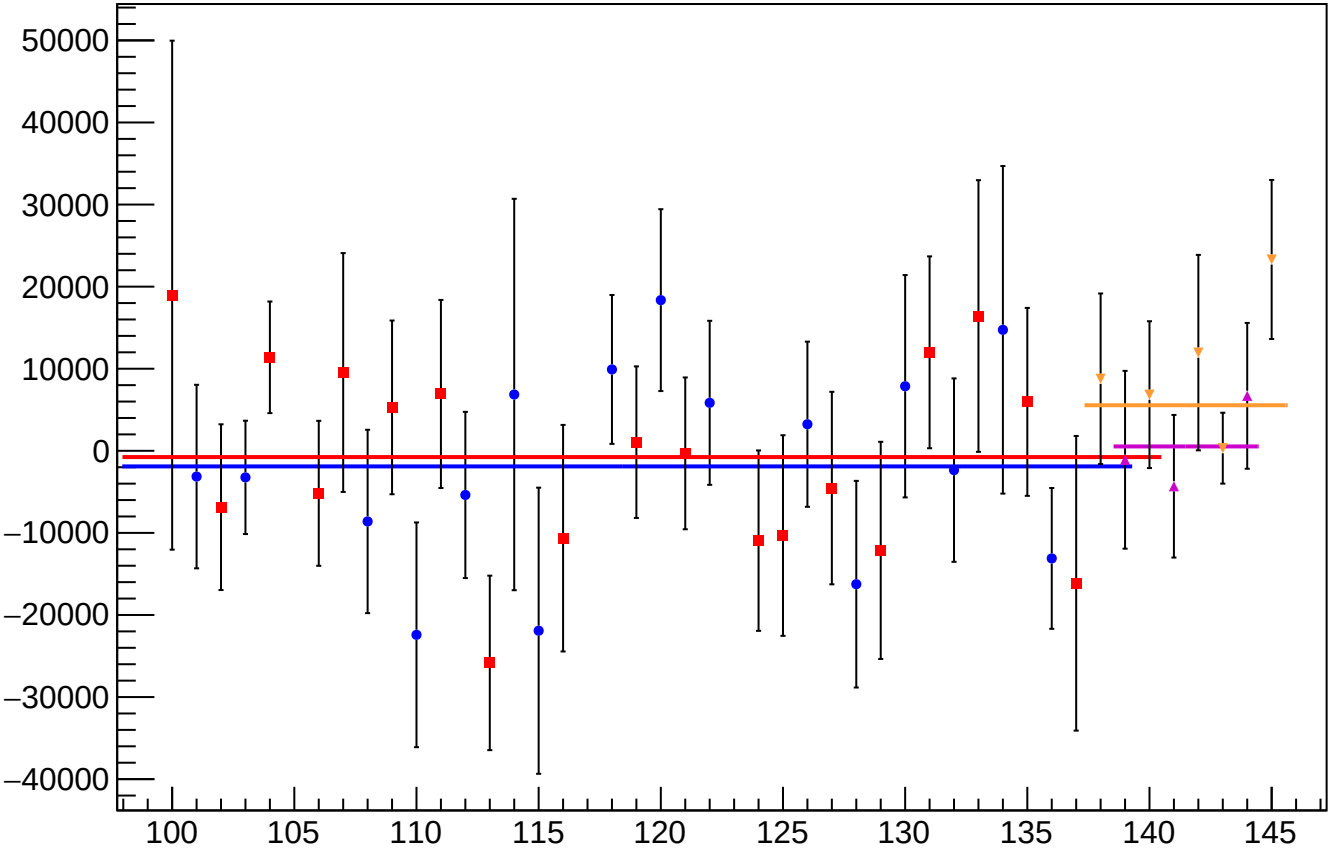
Right: 1657.051+/-0.312 $\chi^2$/NDF: 847939.7/34

In: 1730.086+/-0.395 $\chi^2$/NDF:532510.4/18

Out: 1760.184+/-0.383 $\chi^2$/NDF:866964.8/23

All: 1745.586+/-0.275 $\chi^2$/NDF: 1402462.8/42

asym_at2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1900.125+/-2739.954 $\chi^2$/NDF: 14.4/15

Left Out: 5550.726+/-3277.502 $\chi^2$/NDF:5.2/4

Right Out: -762.513+/-2549.943 $\chi^2$/NDF: 17.3/18

Left In: 532.544+/-5388.793 $\chi^2$/NDF:0.8/2

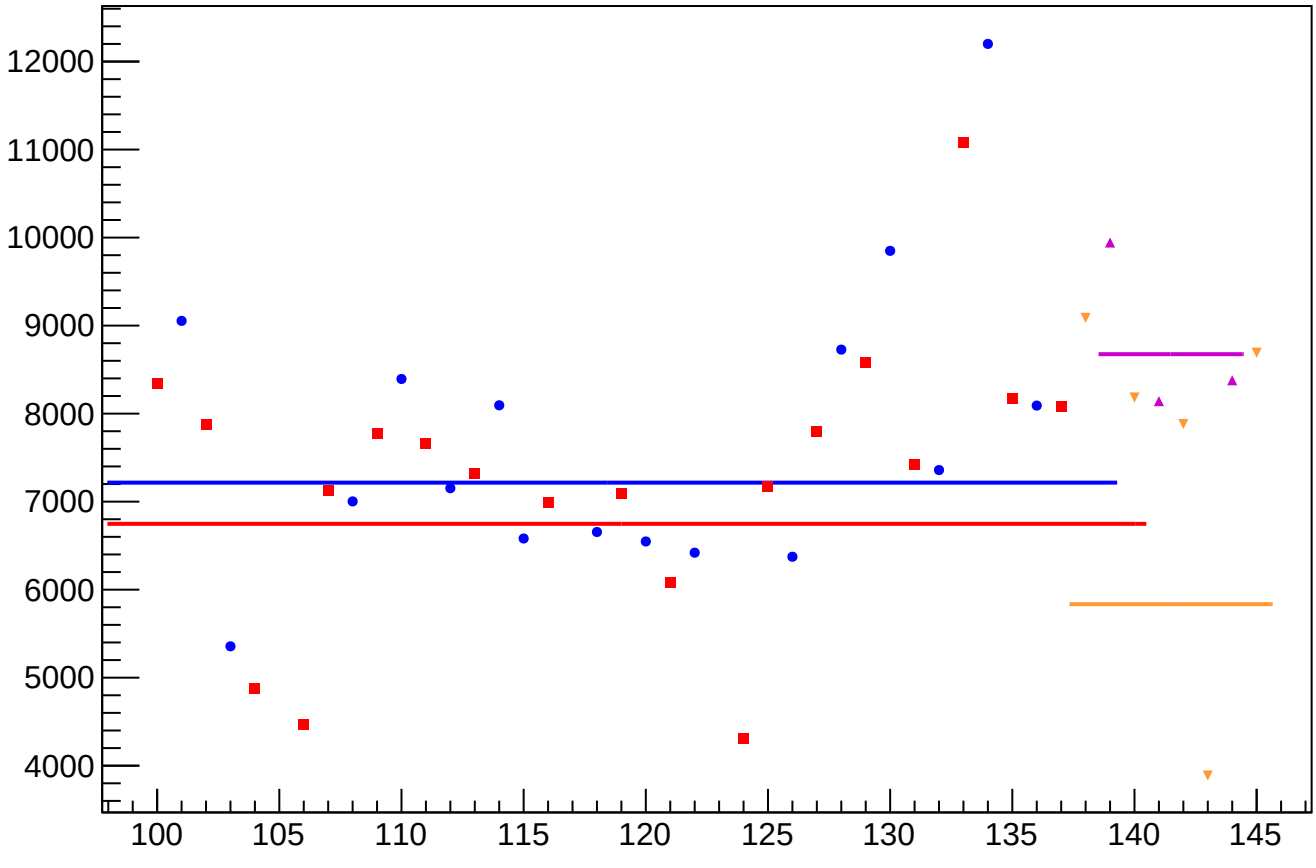
Left: 4195.676+/-2800.245 $\chi^2$/NDF: 6.7/7

Right: -1290.509+/-1866.644 $\chi^2$/NDF: 31.7/34

In: -1400.408+/-2442.375 $\chi^2$/NDF:15.3/18

Out: 1617.994+/-2012.573 $\chi^2$/NDF:24.8/23

All: 397.316+/-1553.189 $\chi^2$/NDF: 41.1/42




Right In: 7216.029+/-1.937 $\chi^2$/NDF: 512126.4/15

Left Out: 5834.888+/-2.318 $\chi^2$/NDF:973424.3/4

Right Out: 6747.736+/-1.803 $\chi^2$/NDF: 708793.3/18

Left In: 8675.369+/-3.810 $\chi^2$/NDF:37208.8/2

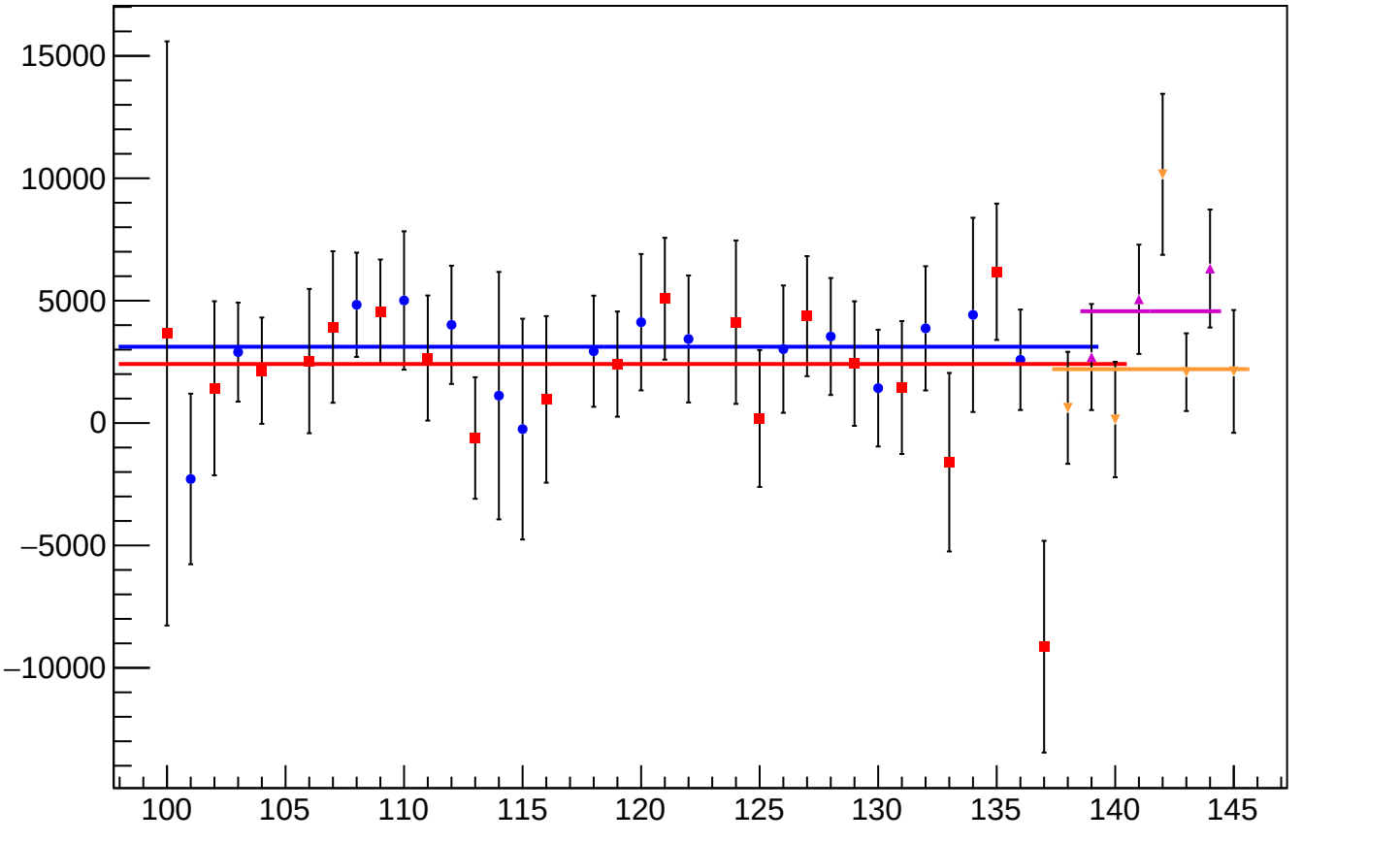
Left: 6601.898+/-1.980 $\chi^2$/NDF: 1416269.5/7

Right: 6965.084+/-1.320 $\chi^2$/NDF: 1252226.6/34

In: 7515.806+/-1.727 $\chi^2$/NDF:665881.3/18

Out: 6403.532+/-1.423 $\chi^2$/NDF:1778863.5/23

All: 6853.350+/-1.098 $\chi^2$/NDF: 2691788.9/42




Right In: 3117.878+/-651.119 $\chi^2$/NDF: 5.3/15

Left Out: 2202.160+/-990.872 $\chi^2$/NDF:7.1/4

Right Out: 2412.473+/-639.018 $\chi^2$/NDF: 16.0/18

Left In: 4567.915+/-1306.486 $\chi^2$/NDF:1.3/2

Left: 3066.047+/-789.494 $\chi^2$/NDF: 10.5/7

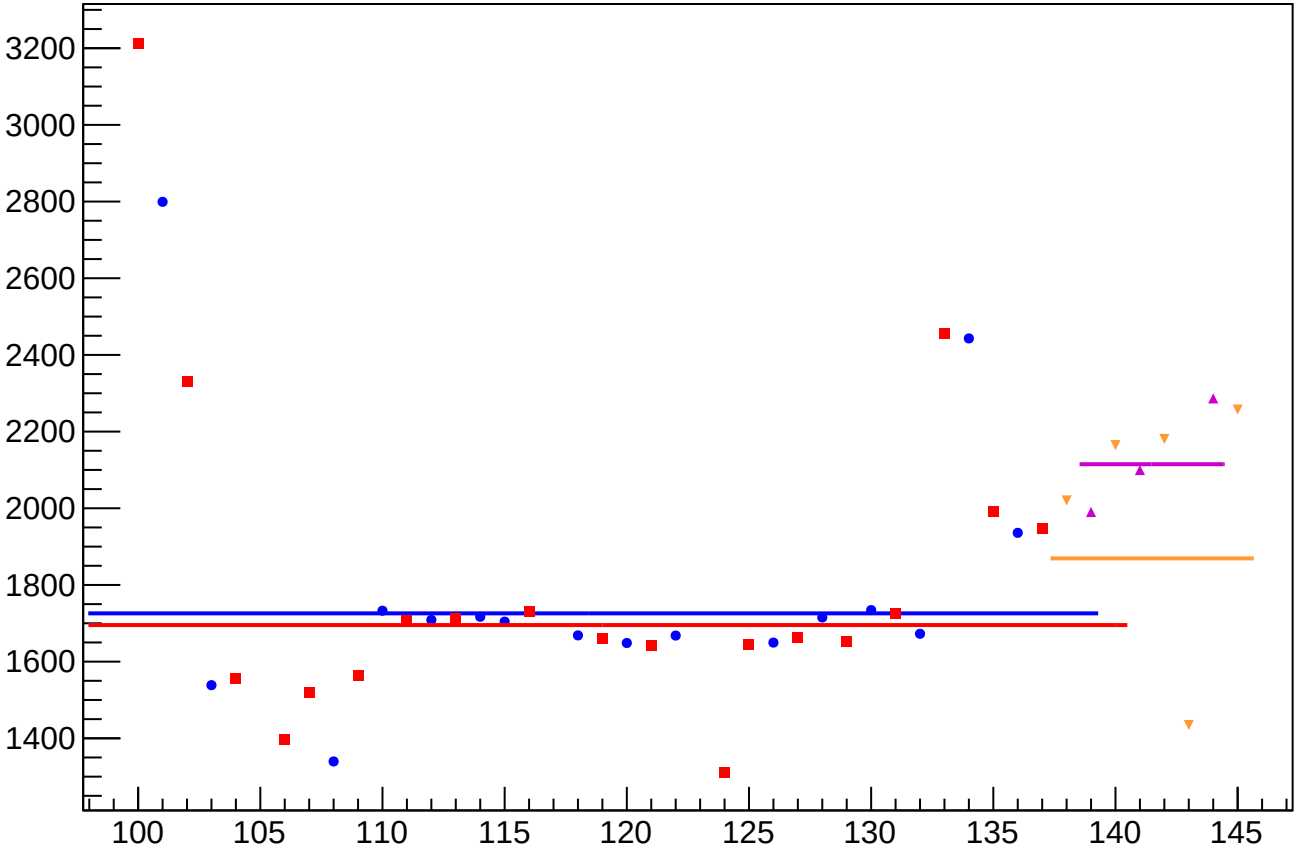
Right: 2758.560+/-456.072 $\chi^2$/NDF: 21.9/34

In: 3406.377+/-582.757 $\chi^2$/NDF:7.6/18

Out: 2350.696+/-537.027 $\chi^2$/NDF:23.1/23

All: 2835.497+/-394.914 $\chi^2$/NDF: 32.5/42

# dit_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1725.911+/-0.460 $\chi^2$/NDF: 365638.9/15

Left Out: 1869.313+/-0.701 $\chi^2$/NDF:255805.6/4

Right Out: 1695.387+/-0.452 $\chi^2$/NDF: 285622.0/18

Left In: 2114.872+/-0.924 $\chi^2$/NDF:16854.6/2

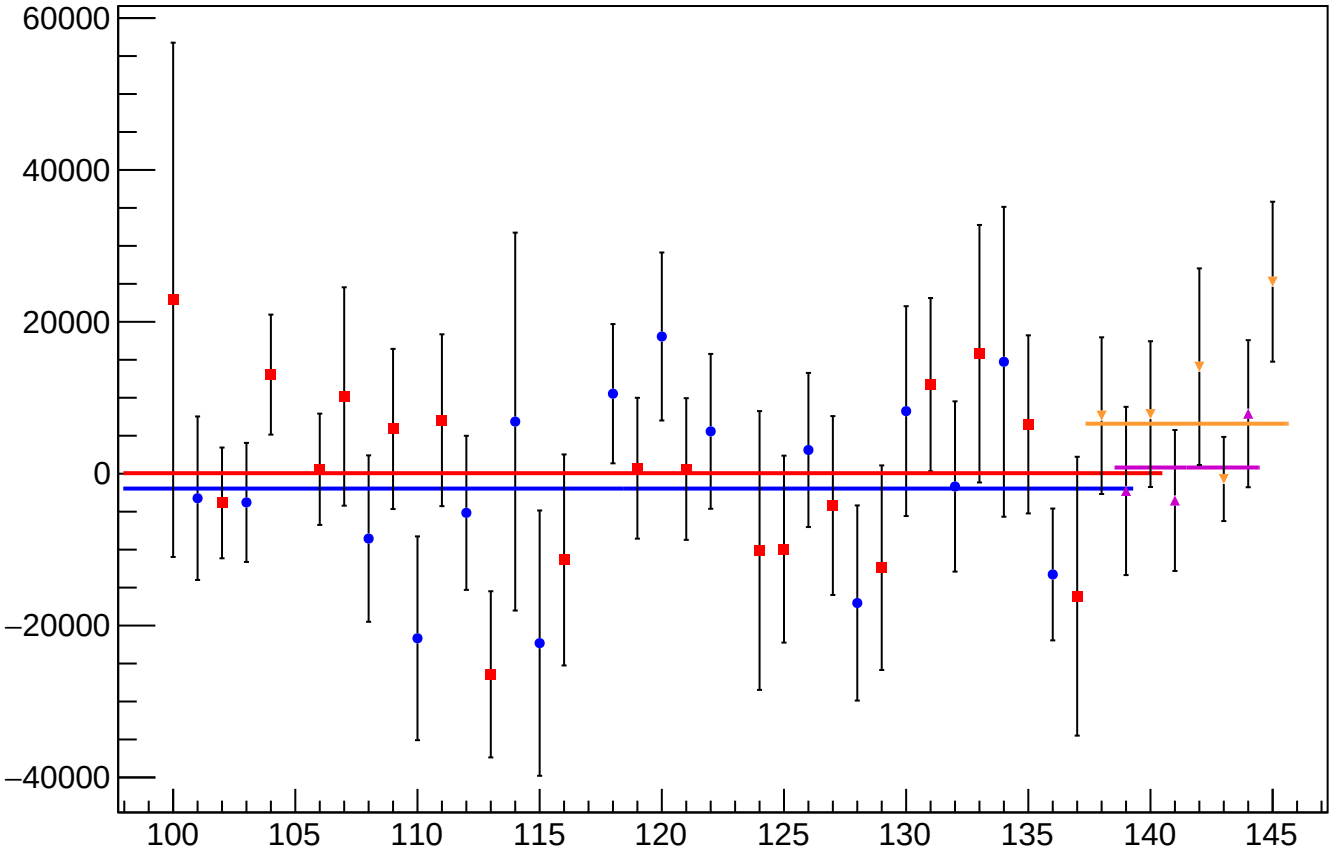
Left: 1958.982+/-0.558 $\chi^2$/NDF: 317513.7/7

Right: 1710.357+/-0.322 $\chi^2$/NDF: 653500.6/34

In: 1803.298+/-0.412 $\chi^2$/NDF:524493.5/18

Out: 1746.449+/-0.380 $\chi^2$/NDF:584957.1/23

All: 1772.548+/-0.279 $\chi^2$/NDF: 1119745.7/42




Right In: -1958.559+/-2798.309 $\chi^2$/NDF: 14.4/15

Left Out: 6584.200+/-3841.521 $\chi^2$/NDF:5.2/4

Right Out: 68.156+/-2529.527 $\chi^2$/NDF: 16.1/18

Left In: 812.568+/-5733.559 $\chi^2$/NDF:0.8/2

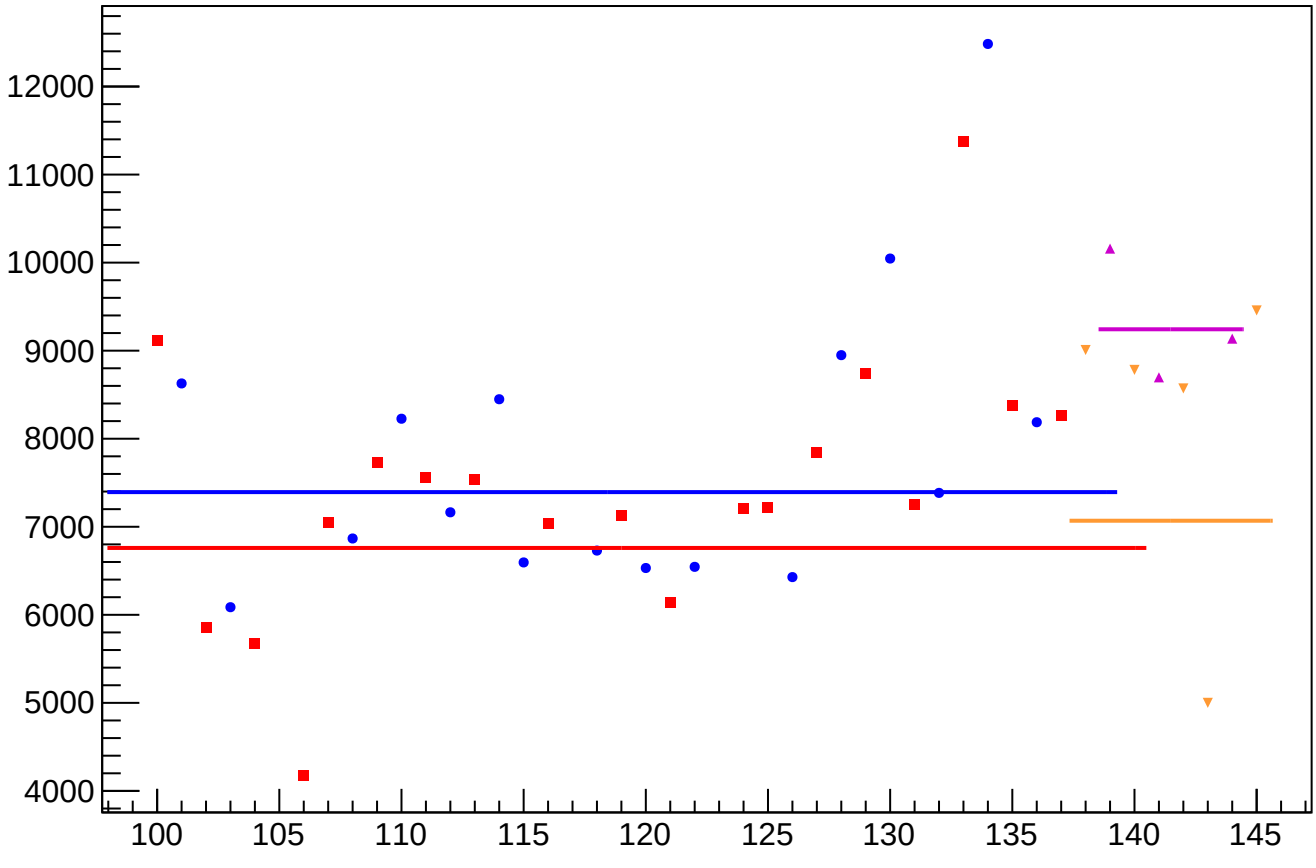
Left: 4796.003+/-3191.411 $\chi^2$/NDF: 6.8/7

Right: -843.216+/-1876.494 $\chi^2$/NDF: 30.8/34

In: -1425.460+/-2514.781 $\chi^2$/NDF:15.4/18

Out: 2038.915+/-2112.652 $\chi^2$/NDF:23.4/23

All: 605.529+/-1617.593 $\chi^2$/NDF: 39.9/42




Right In: 7393.622+/-1.979 $\chi^2$/NDF: 401826.8/15

Left Out: 7068.587+/-2.716 $\chi^2$/NDF:542491.2/4

Right Out: 6759.428+/-1.789 $\chi^2$/NDF: 644290.9/18

Left In: 9242.927+/-4.054 $\chi^2$/NDF:20842.4/2

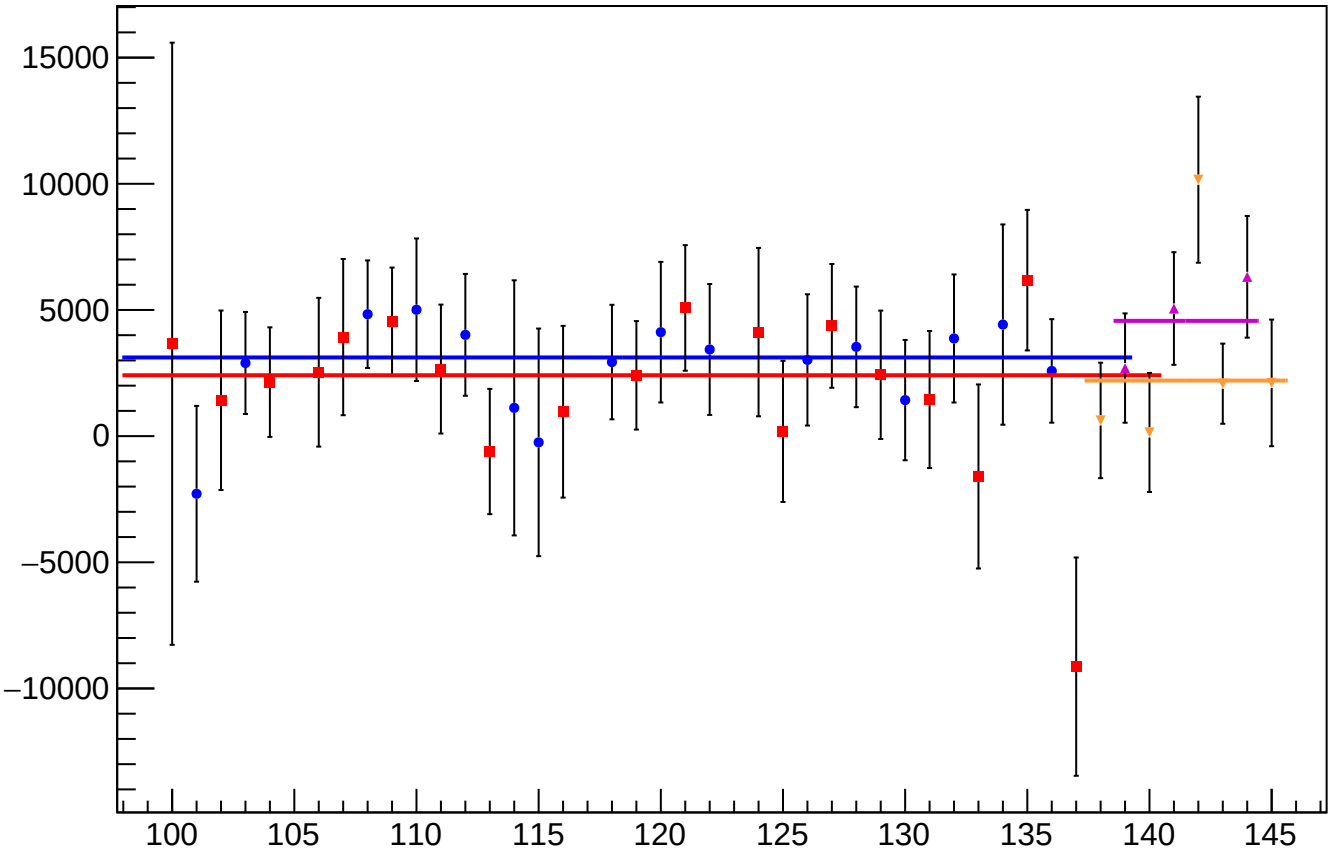
Left: 7742.252+/-2.257 $\chi^2$/NDF: 761849.6/7

Right: 7044.612+/-1.327 $\chi^2$/NDF: 1102650.4/34

In: 7749.385+/-1.778 $\chi^2$/NDF:590707.1/18

Out: 6852.932+/-1.494 $\chi^2$/NDF:1195817.8/23

All: 7223.839+/-1.144 $\chi^2$/NDF: 1935518.5/42




Right In: 3117.882+/-651.118 $\chi^2$/NDF: 5.3/15

Left Out: 2202.170+/-990.874 $\chi^2$/NDF:7.1/4

Right Out: 2412.481+/-639.018 $\chi^2$/NDF: 16.0/18

Left In: 4567.903+/-1306.488 $\chi^2$/NDF:1.3/2

Left: 3066.049+/-789.495 $\chi^2$/NDF: 10.5/7

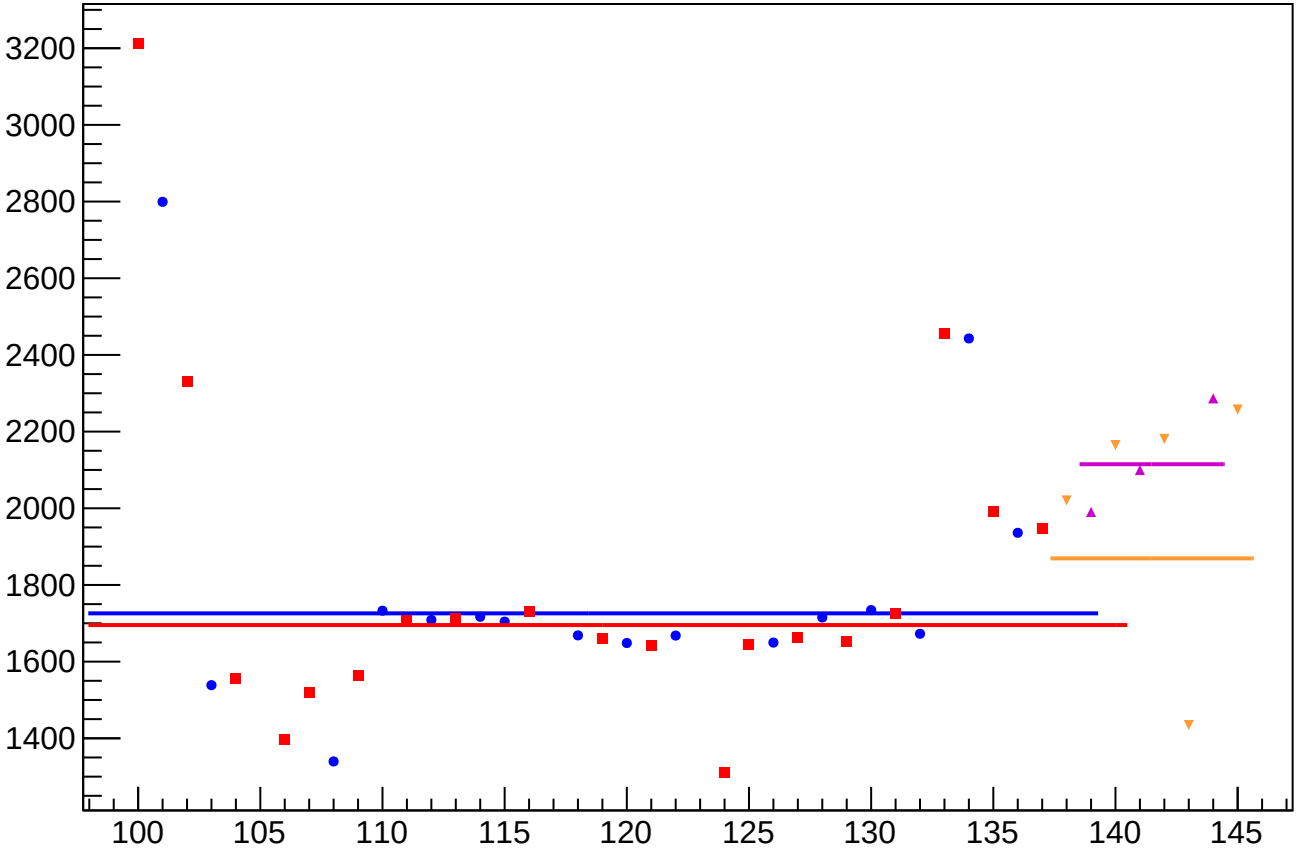
Right: 2758.566+/-456.072 $\chi^2$/NDF: 21.9/34

In: 3406.376+/-582.757 $\chi^2$/NDF:7.6/18

Out: 2350.705+/-537.028 $\chi^2$/NDF:23.1/23

All: 2835.502+/-394.914 $\chi^2$/NDF: 32.5/42

# eigen_dit_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1725.910+/-0.460 $\chi^2$/NDF: 365639.0/15

Left Out: 1869.316+/-0.701 $\chi^2$/NDF:255806.0/4

Right Out: 1695.387+/-0.452 $\chi^2$/NDF: 285622.3/18

Left In: 2114.875+/-0.924 $\chi^2$/NDF:16854.8/2

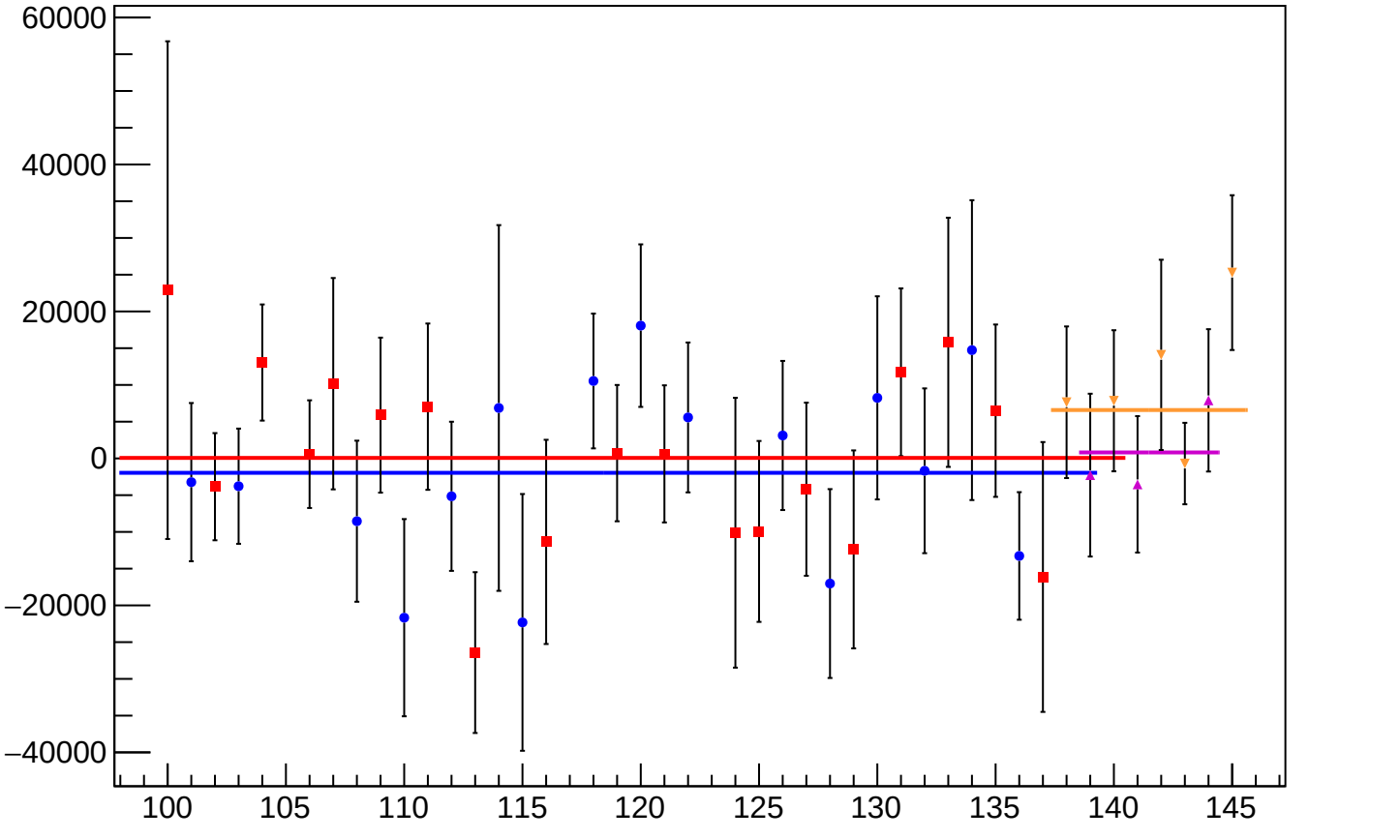
Left: 1958.985+/-0.558 $\chi^2$/NDF: 317514.2/7

Right: 1710.357+/-0.322 $\chi^2$/NDF: 653500.9/34

In: 1803.298+/-0.412 $\chi^2$/NDF:524496.0/18

Out: 1746.449+/-0.380 $\chi^2$/NDF:584959.2/23

All: 1772.549+/-0.279 $\chi^2$/NDF: 1119750.1/42




Right In: -1958.538+/-2798.302 $\chi^2$/NDF: 14.4/15

Left Out: 6584.208+/-3841.528 $\chi^2$/NDF:5.2/4

Right Out: 68.163+/-2529.521 $\chi^2$/NDF: 16.1/18

Left In: 812.559+/-5733.568 $\chi^2$/NDF:0.8/2

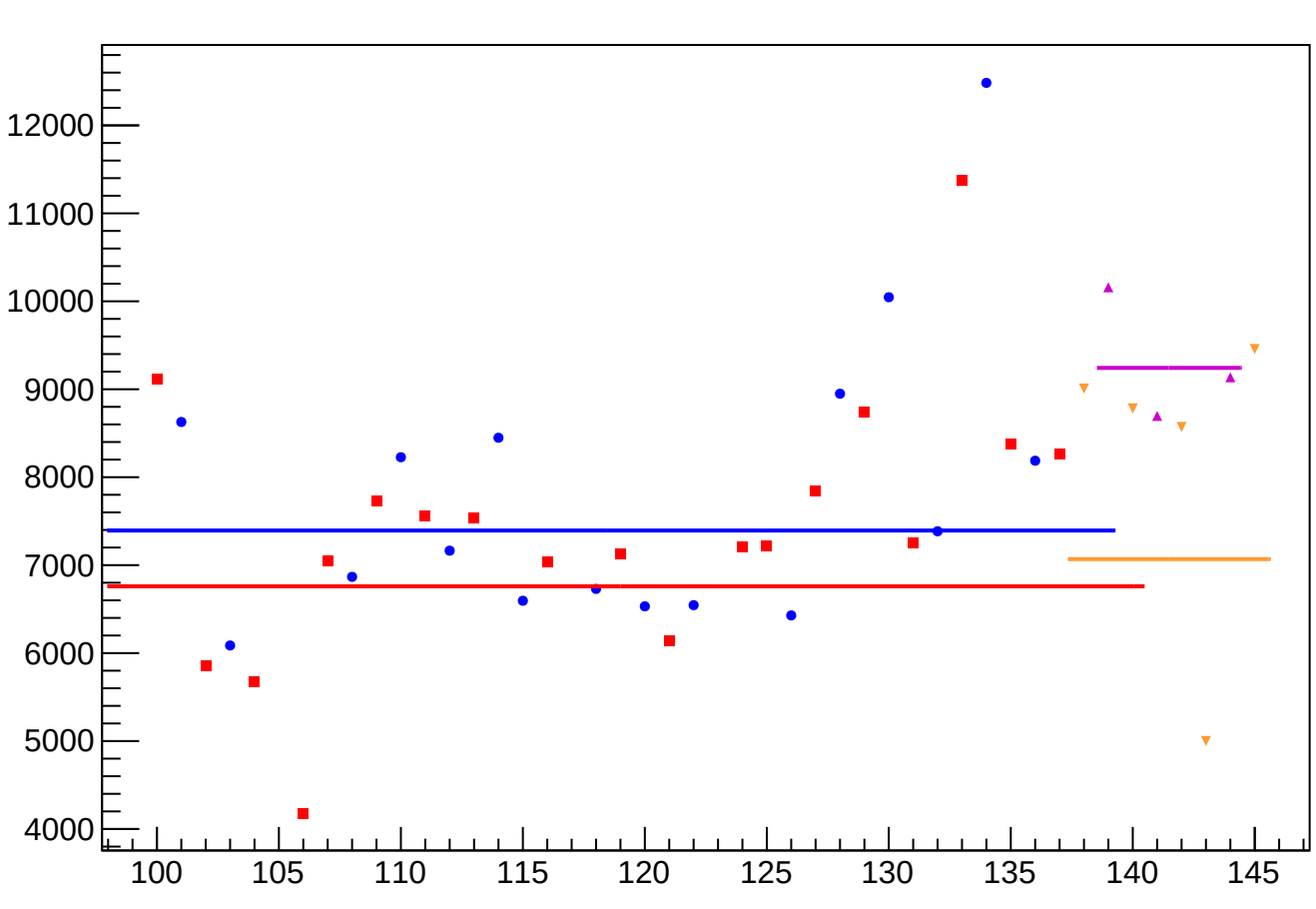
Left: 4796.004+/-3191.416 $\chi^2$/NDF: 6.8/7

Right: -843.203+/-1876.490 $\chi^2$/NDF: 30.8/34

In: -1425.448+/-2514.777 $\chi^2$/NDF:15.4/18

Out: 2038.911+/-2112.650 $\chi^2$/NDF:23.4/23

All: 605.531+/-1617.591 $\chi^2$/NDF: 39.9/42




Right In: 7393.605+/-1.979 $\chi^2$/NDF: 401829.0/15

Left Out: 7068.600+/-2.716 $\chi^2$/NDF:542491.5/4

Right Out: 6759.413+/-1.789 $\chi^2$/NDF: 644289.7/18

Left In: 9242.941+/-4.054 $\chi^2$/NDF:20843.0/2

Left: 7742.266+/-2.257 $\chi^2$/NDF: 761850.0/7

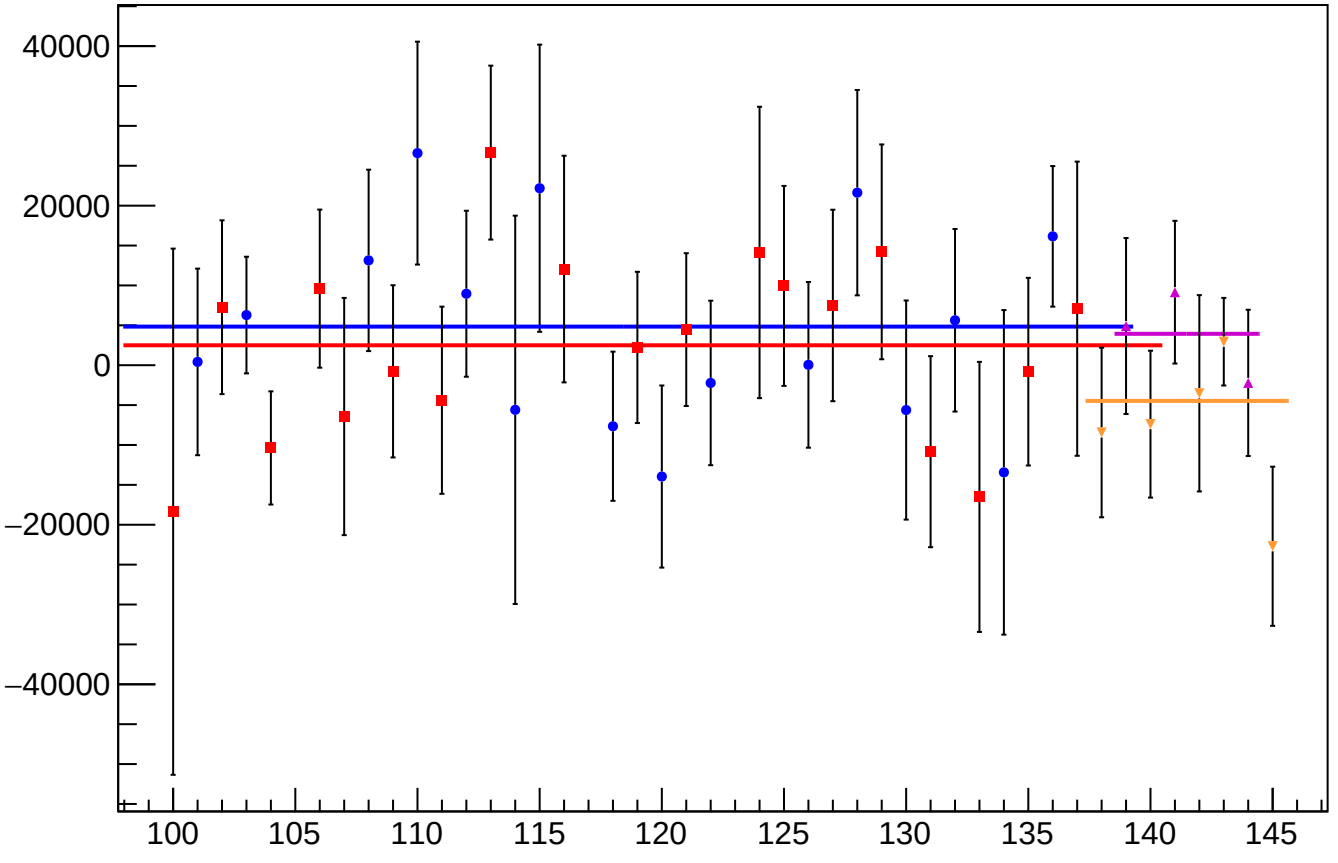
Right: 7044.596+/-1.327 $\chi^2$/NDF: 1102651.2/34

In: 7749.371+/-1.778 $\chi^2$/NDF:590715.4/18

Out: 6852.925+/-1.494 $\chi^2$/NDF:1195818.6/23

All: 7223.830+/-1.144 $\chi^2$/NDF: 1935525.6/42

# asym_at2_avg_mean vs Slug, Sign Corrected




Right In: 4837.820+/-2828.918 $\chi^2$/NDF: 14.3/15

Left Out: -4476.425+/-3767.059 $\chi^2$/NDF:5.4/4

Right Out: 2495.844+/-2695.530 $\chi^2$/NDF: 14.9/18

Left In: 3934.890+/-5537.067 $\chi^2$/NDF:0.8/2

Left: -1815.039+/-3114.596 $\chi^2$/NDF: 7.8/7

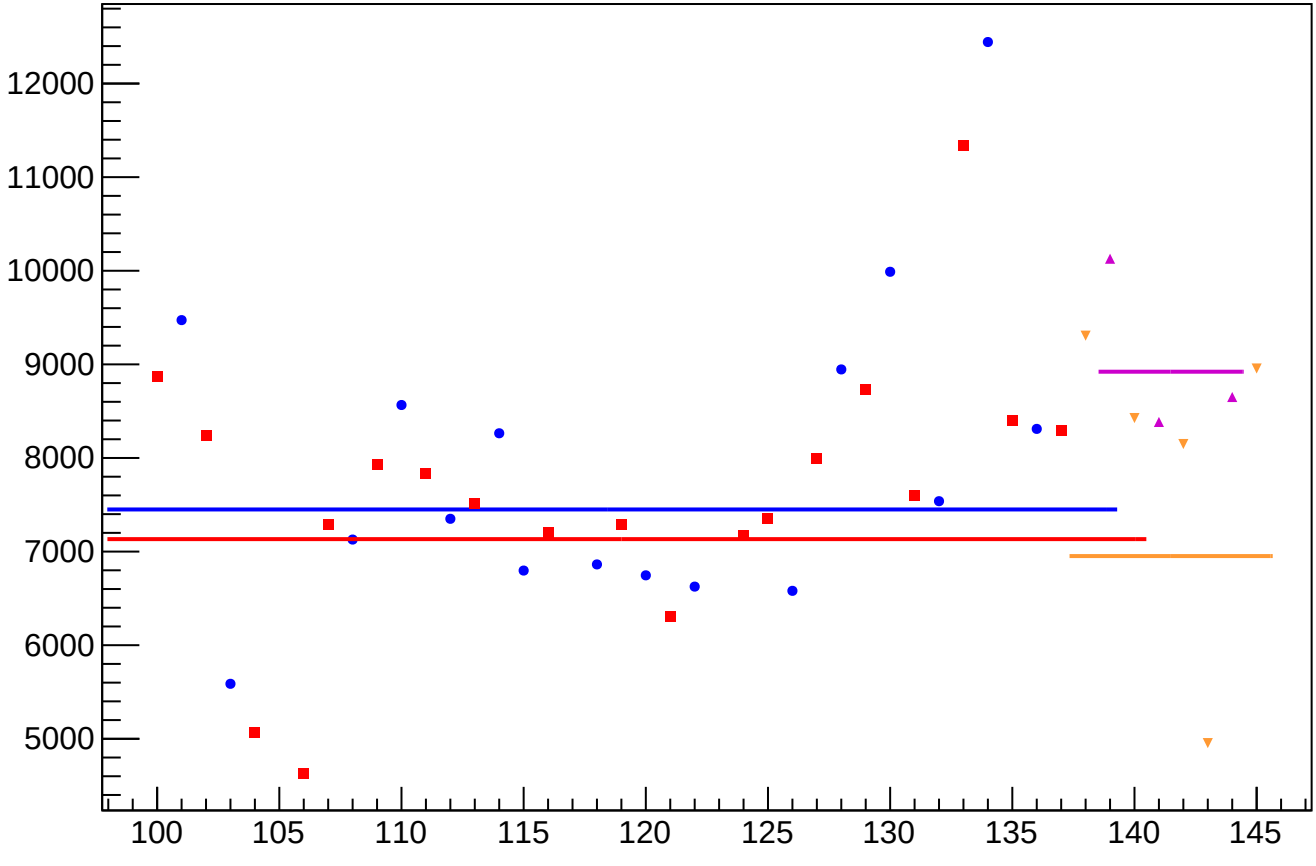
Right: 3610.318+/-1951.480 $\chi^2$/NDF: 29.6/34

In: 4650.919+/-2519.176 $\chi^2$/NDF:15.1/18

Out: 134.815+/-2192.129 $\chi^2$/NDF:22.6/23

All: 2080.873+/-1653.691 $\chi^2$/NDF: 39.6/42

# asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 7449.985+/-2.000 $\chi^2$/NDF: 486427.7/15

Left Out: 6952.076+/-2.664 $\chi^2$/NDF:513886.3/4

Right Out: 7133.115+/-1.906 $\chi^2$/NDF: 556993.0/18

Left In: 8921.590+/-3.915 $\chi^2$/NDF:32888.1/2

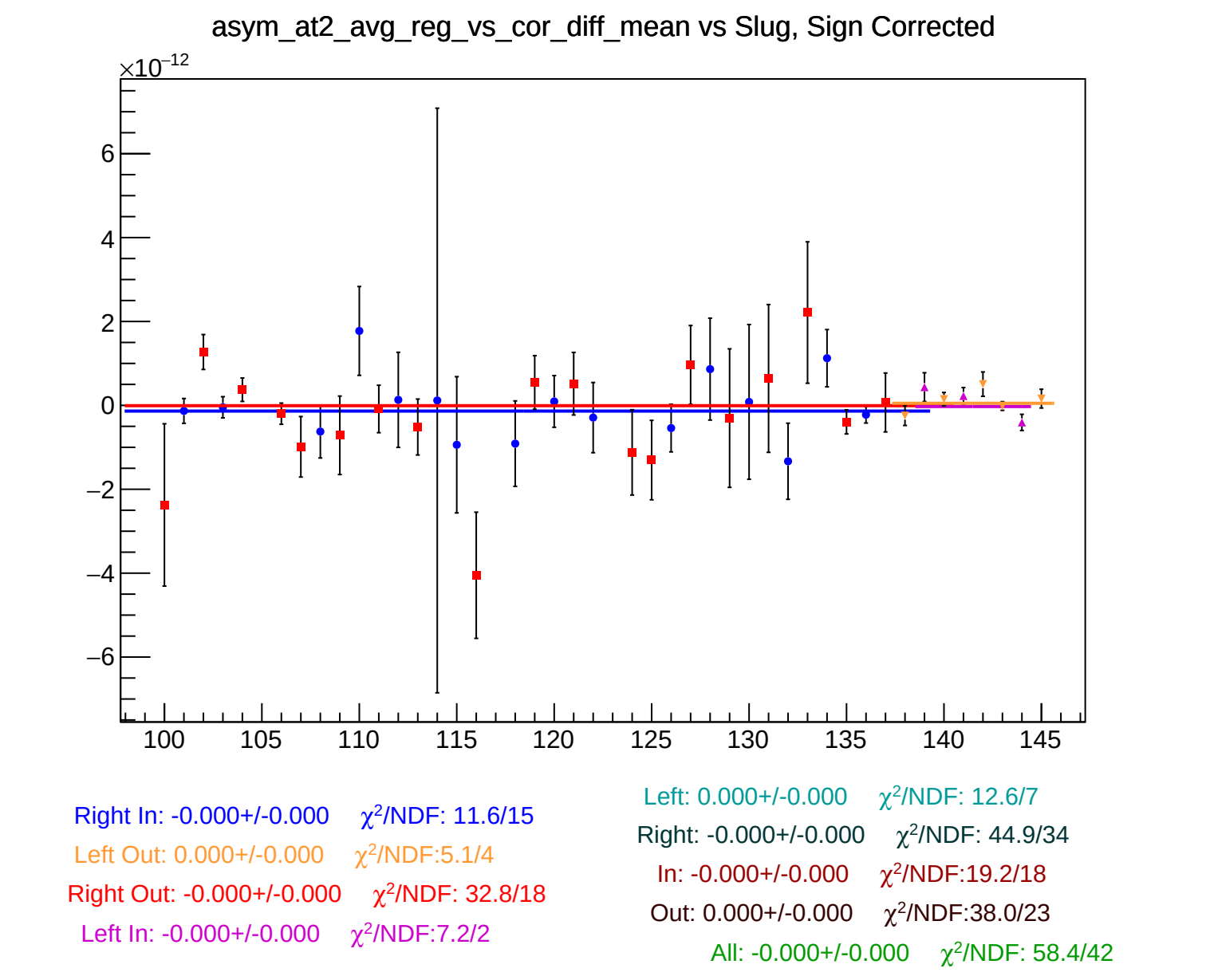
Left: 7575.240+/-2.202 $\chi^2$/NDF: 719751.0/7

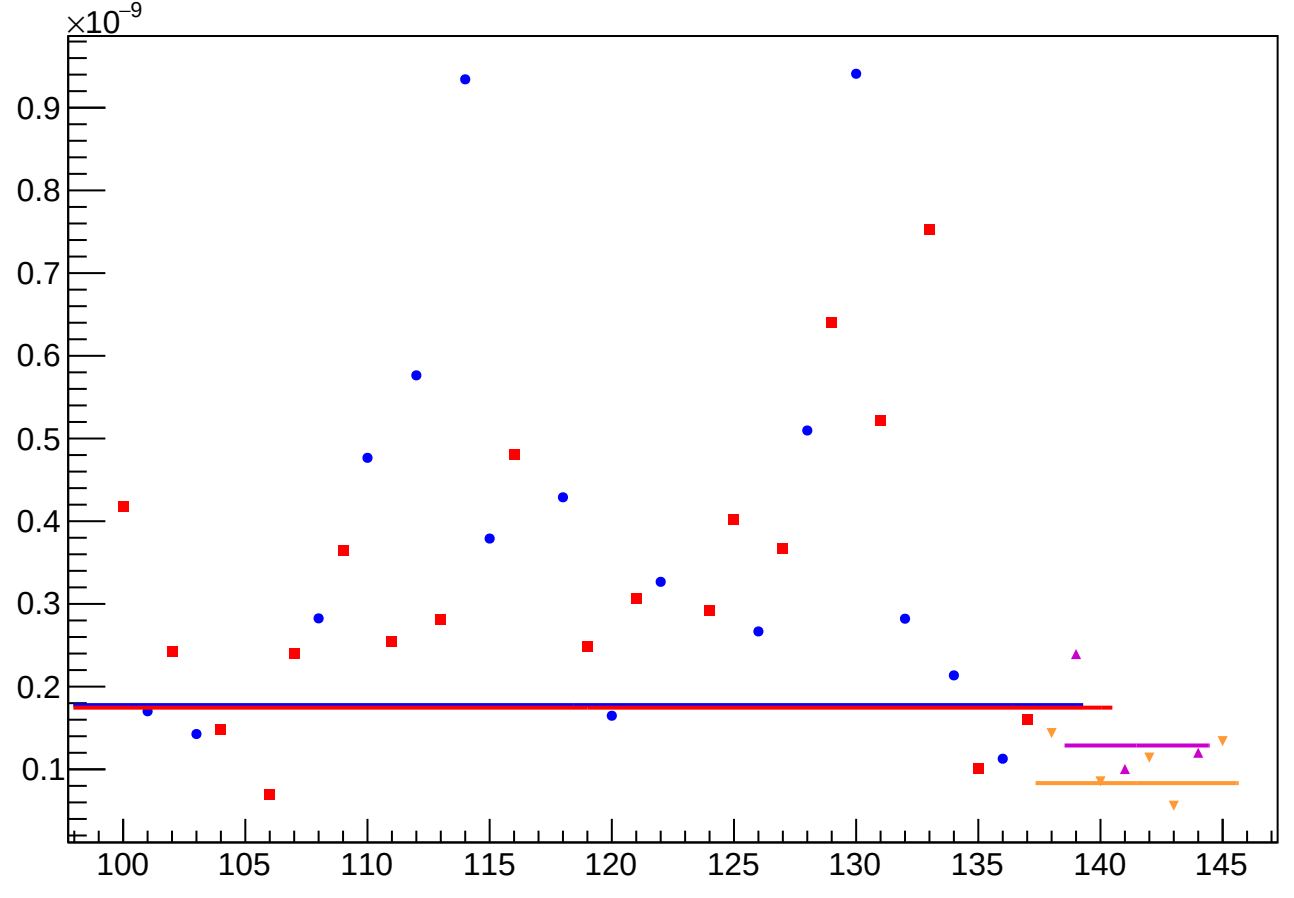
Right: 7283.894+/-1.380 $\chi^2$/NDF: 1056573.7/34

In: 7754.594+/-1.781 $\chi^2$/NDF:631344.9/18

Out: 7071.815+/-1.550 $\chi^2$/NDF:1073934.4/23

All: 7366.022+/-1.169 $\chi^2$/NDF: 1788891.9/42


asym_at2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
4
2
0
−2
−4
−6
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 11.6/15
Left Out: 0.000+/-0.000 χ²/NDF:5.1/4
Right Out: -0.000+/-0.000 χ²/NDF: 32.8/18
Left In: -0.000+/-0.000 χ²/NDF:7.2/2
Left: 0.000+/-0.000 χ²/NDF: 12.6/7
Right: -0.000+/-0.000 χ²/NDF: 44.9/34
In: -0.000+/-0.000 χ²/NDF:19.2/18
Out: 0.000+/-0.000 χ²/NDF:38.0/23
All: -0.000+/-0.000 χ²/NDF: 58.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1530066.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:398965.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1641366.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:251857.7/2

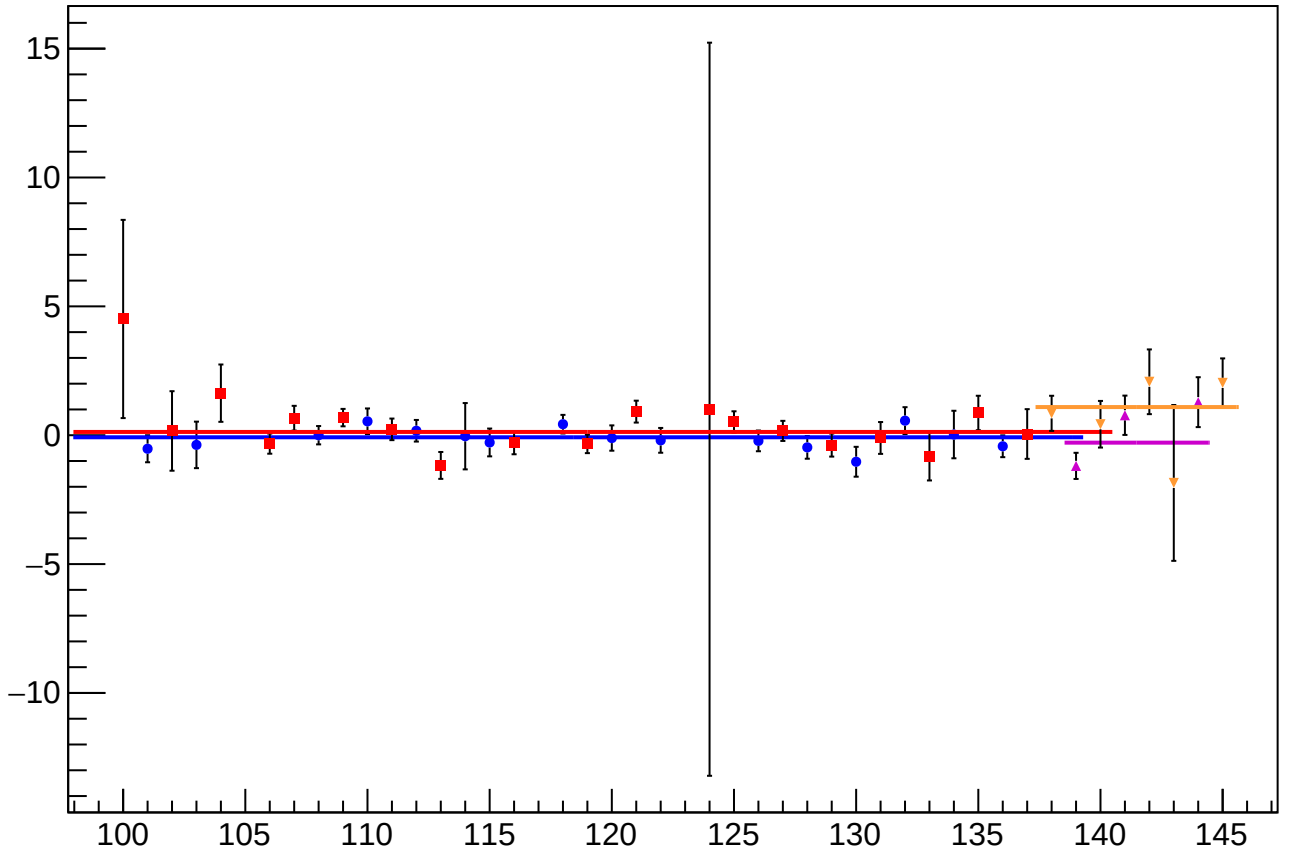
Left: 0.000+/-0.000 $\chi^2$/NDF: 837959.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3172068.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:1935771.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2848895.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5169507.1/42




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: 1.093+/-0.437 $\chi^2$/NDF:3.2/4

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.288+/-0.387 $\chi^2$/NDF:7.7/2

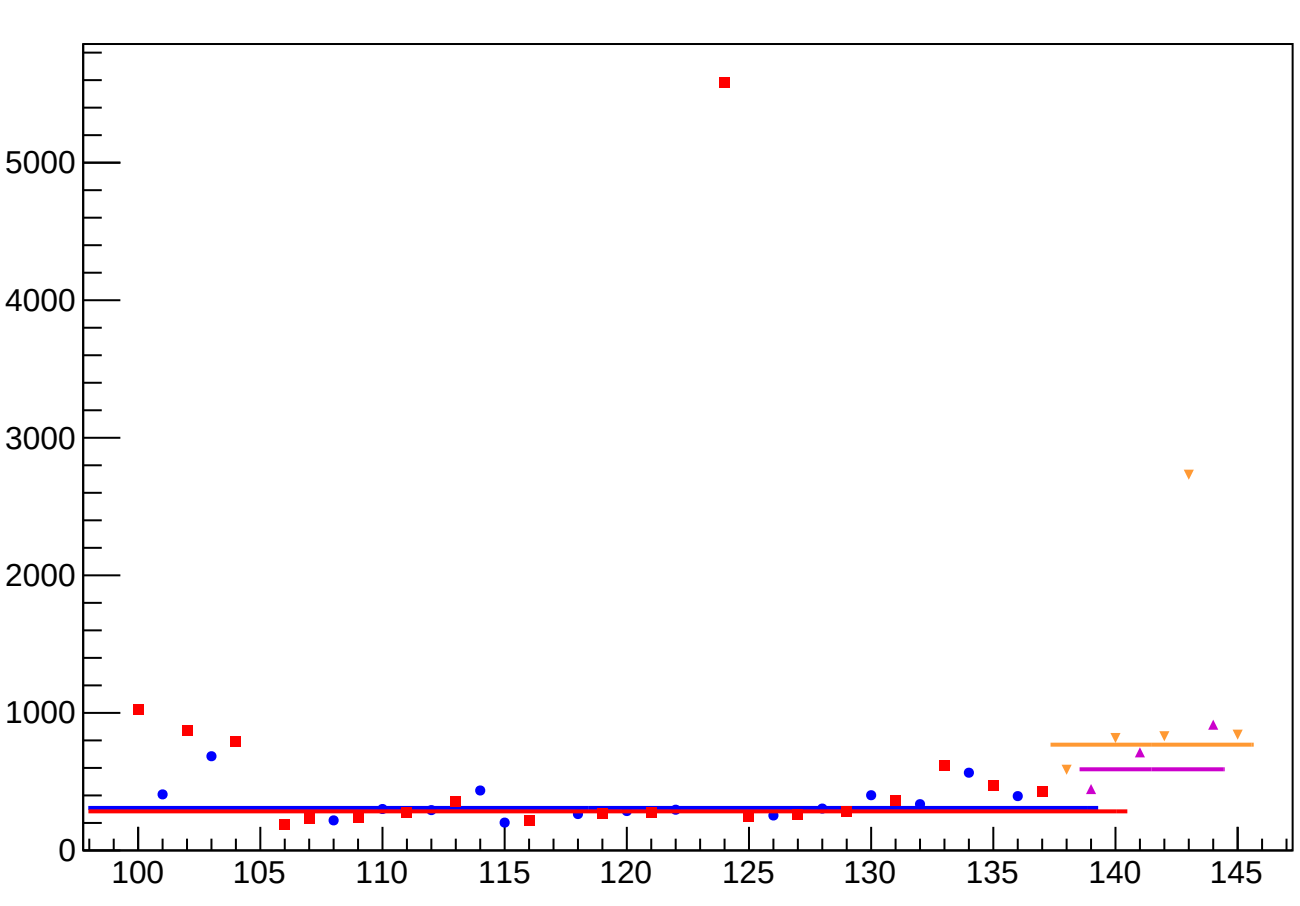
Left: 0.318+/-0.290 $\chi^2$/NDF: 16.5/7

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.099+/-0.116 $\chi^2$/NDF:18.8/18

Out: 0.192+/-0.113 $\chi^2$/NDF:33.0/23

All: 0.051+/-0.081 $\chi^2$/NDF: 55.0/42




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014604.9/15

Left Out: 769.014+/-0.309 $\chi^2$/NDF:1008138.1/4

Right Out: 284.189+/-0.083 $\chi^2$/NDF: 1856451.4/18

Left In: 590.020+/-0.274 $\chi^2$/NDF:437228.4/2

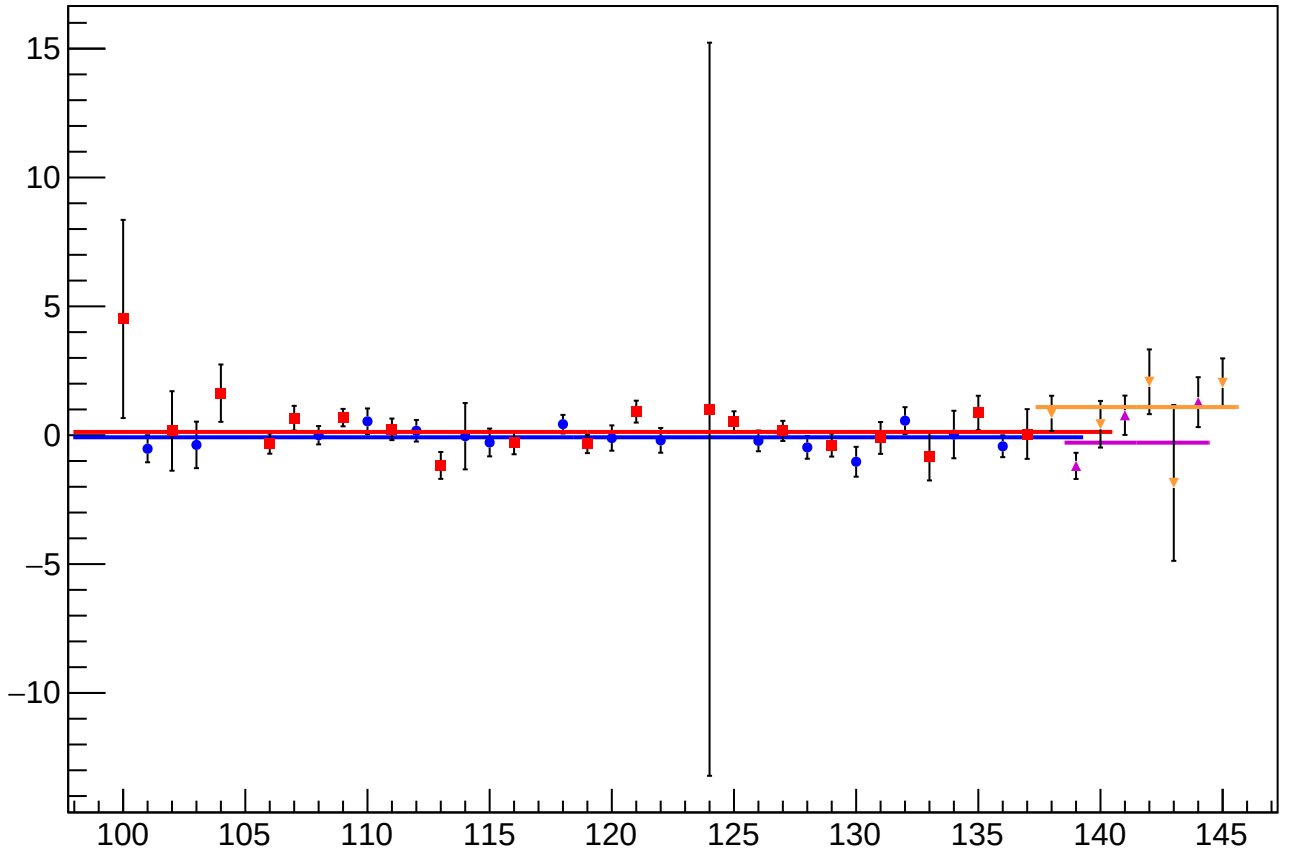
Left: 668.624+/-0.205 $\chi^2$/NDF: 1633212.2/7

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914551.5/34

In: 334.432+/-0.082 $\chi^2$/NDF:2410457.7/18

Out: 316.516+/-0.080 $\chi^2$/NDF:5157968.9/23

All: 325.217+/-0.057 $\chi^2$/NDF: 7592866.3/42




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: 1.093+/-0.437 $\chi^2$/NDF:3.2/4

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.288+/-0.387 $\chi^2$/NDF:7.7/2

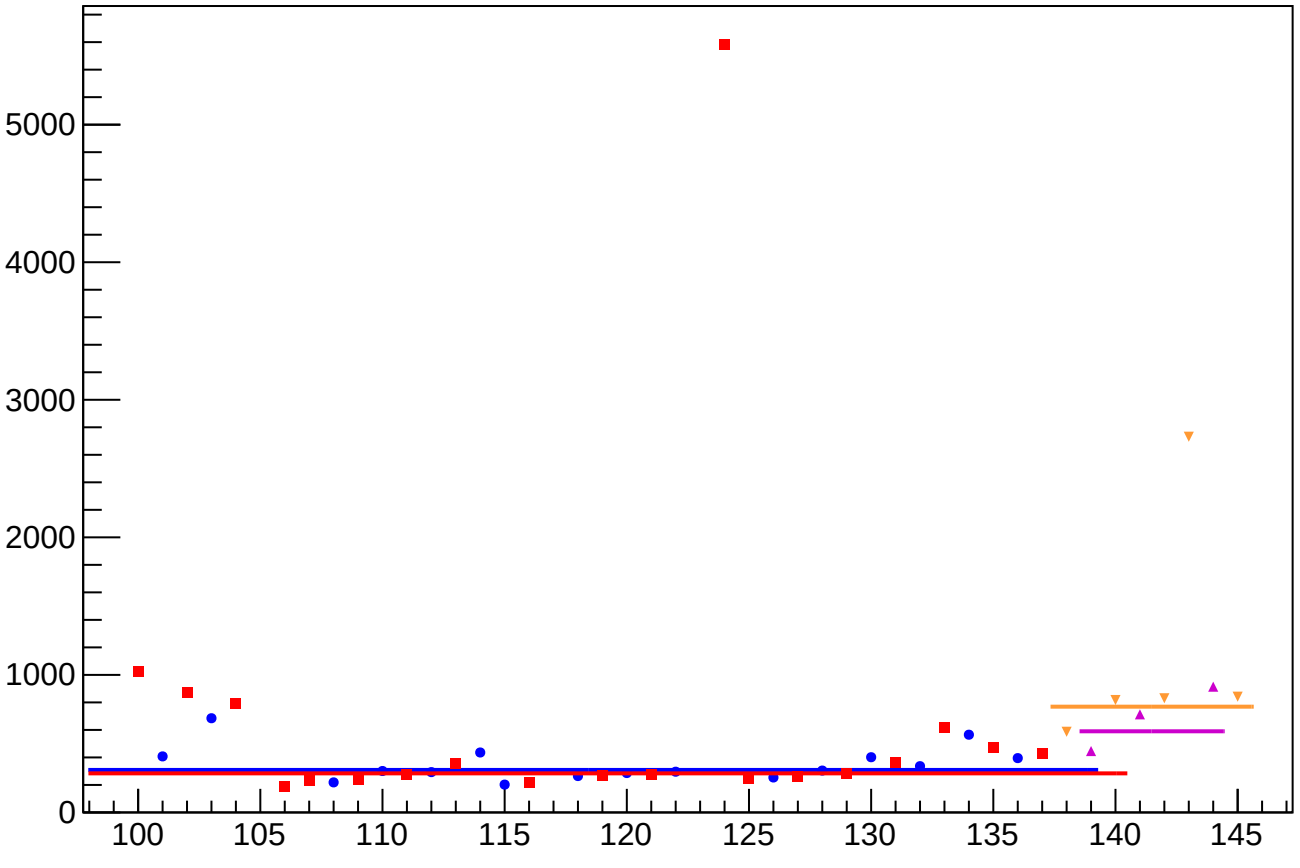
Left: 0.318+/-0.290 $\chi^2$/NDF: 16.5/7

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.099+/-0.116 $\chi^2$/NDF:18.8/18

Out: 0.192+/-0.113 $\chi^2$/NDF:33.0/23

All: 0.051+/-0.081 $\chi^2$/NDF: 55.0/42




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014604.9/15

Left Out: 769.014+/-0.309 $\chi^2$/NDF:1008138.1/4

Right Out: 284.189+/-0.083 $\chi^2$/NDF: 1856451.4/18

Left In: 590.020+/-0.274 $\chi^2$/NDF:437228.4/2

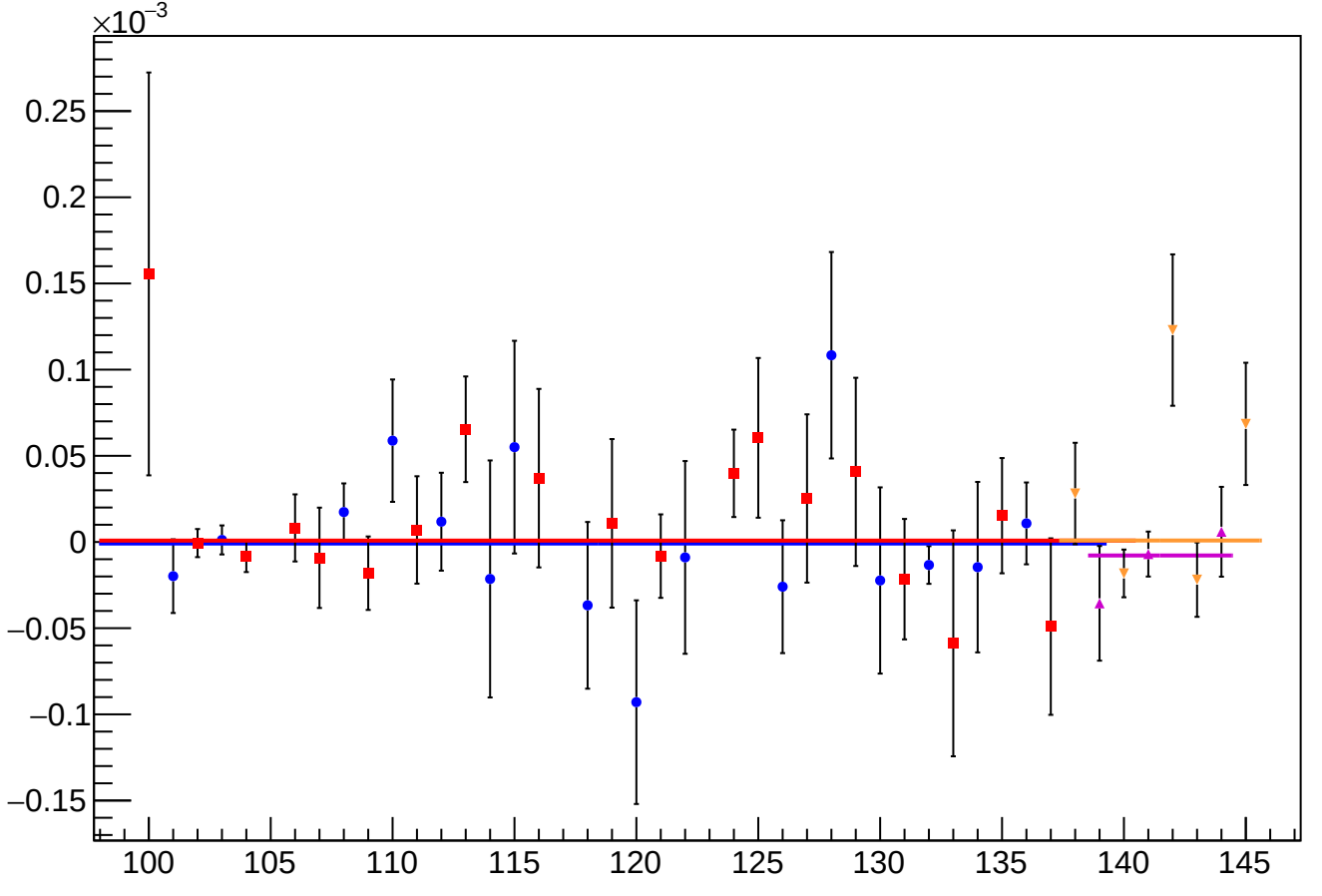
Left: 668.624+/-0.205 $\chi^2$/NDF: 1633212.2/7

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914551.5/34

In: 334.432+/-0.082 $\chi^2$/NDF:2410457.7/18

Out: 316.516+/-0.080 $\chi^2$/NDF:5157968.9/23

All: 325.217+/-0.057 $\chi^2$/NDF: 7592866.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.0/2

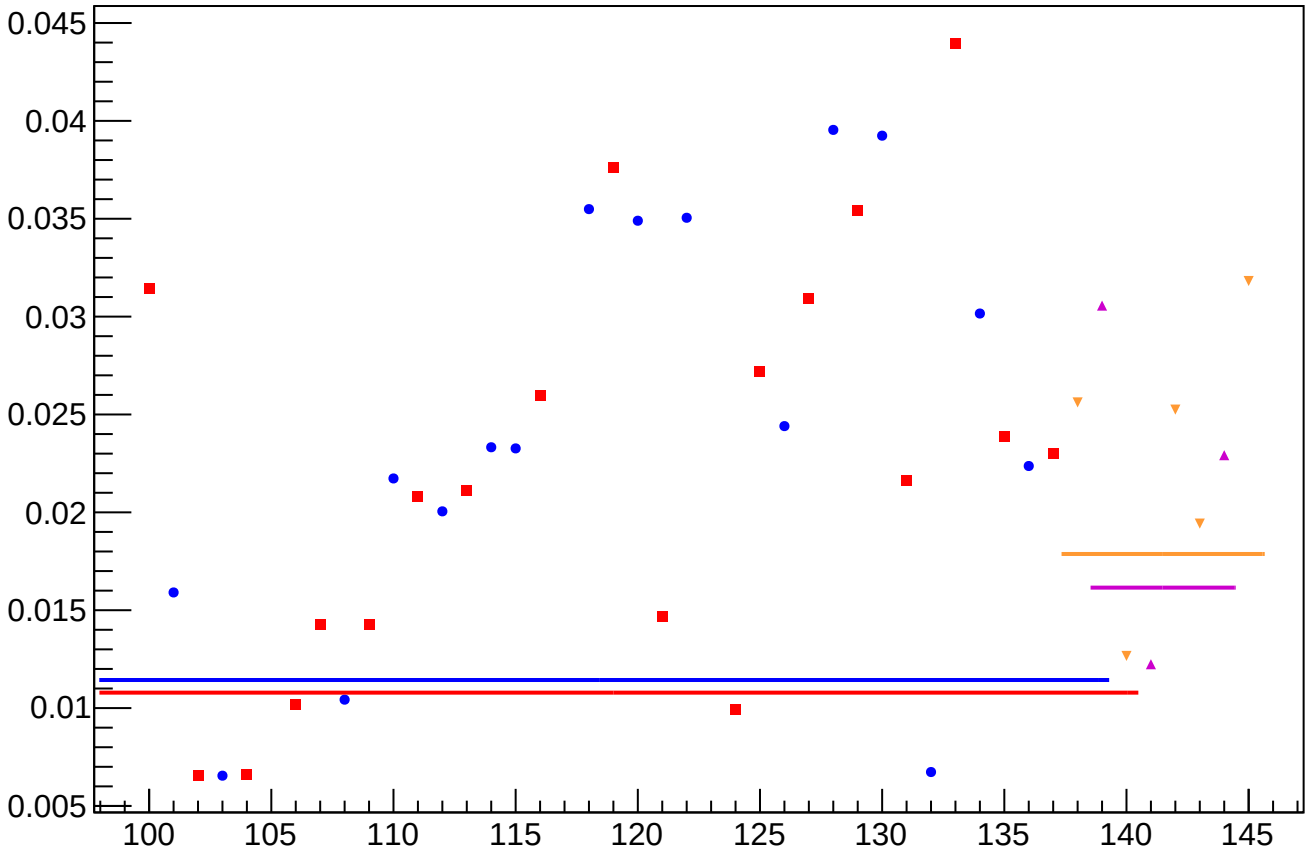
Left: -0.000+/-0.000 $\chi^2$/NDF: 16.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:15.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:31.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.4/42




Right In: 0.011+/-0.000 $\chi^2$/NDF: 4699938.2/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:797909.4/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 4473688.9/18

Left In: 0.016+/-0.000 $\chi^2$/NDF:690308.2/2

Left: 0.017+/-0.000 $\chi^2$/NDF: 1514749.3/7

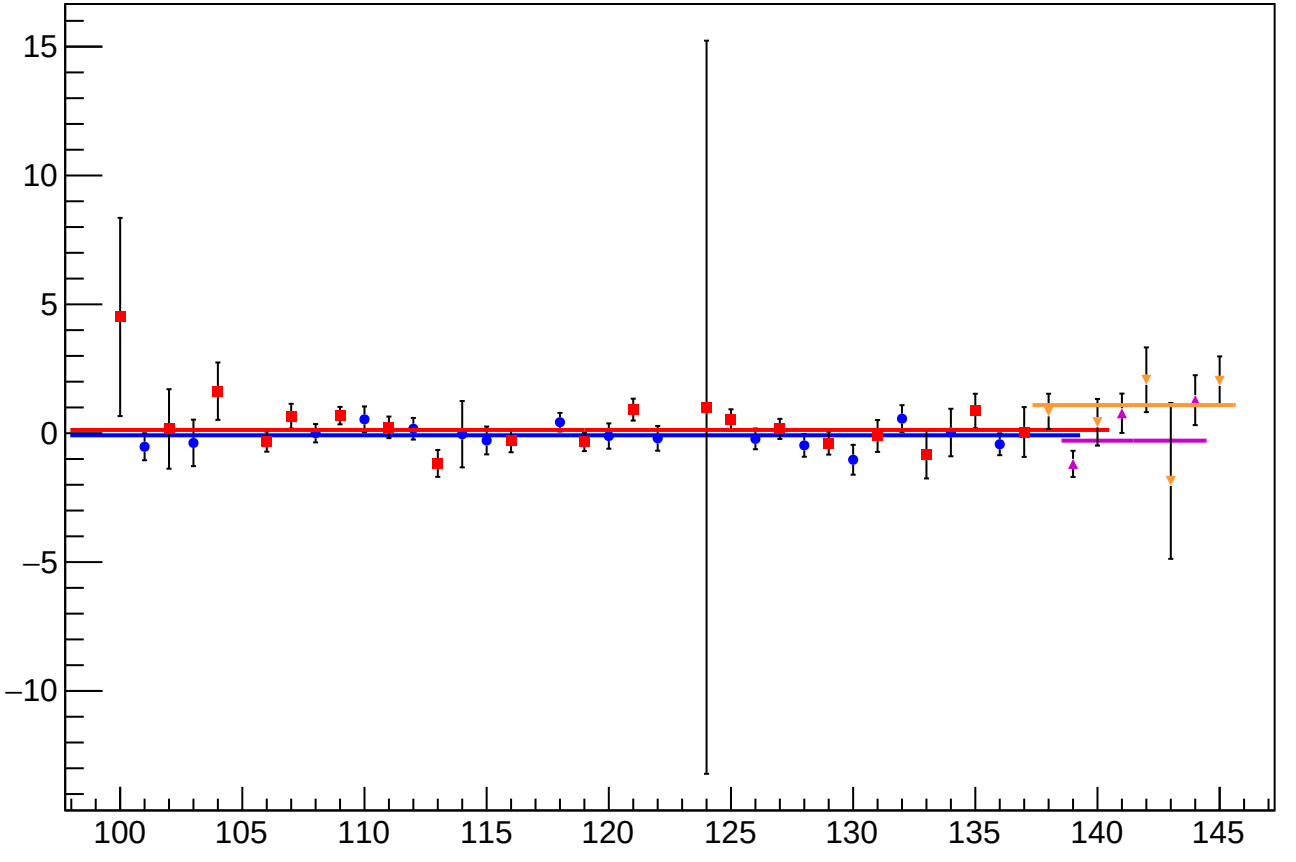
Right: 0.011+/-0.000 $\chi^2$/NDF: 9189725.1/34

In: 0.012+/-0.000 $\chi^2$/NDF:5688294.8/18

Out: 0.012+/-0.000 $\chi^2$/NDF:6074098.8/23

All: 0.012+/-0.000 $\chi^2$/NDF: 11764517.5/42

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: 1.093+/-0.437 $\chi^2$/NDF:3.2/4

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.288+/-0.387 $\chi^2$/NDF:7.7/2

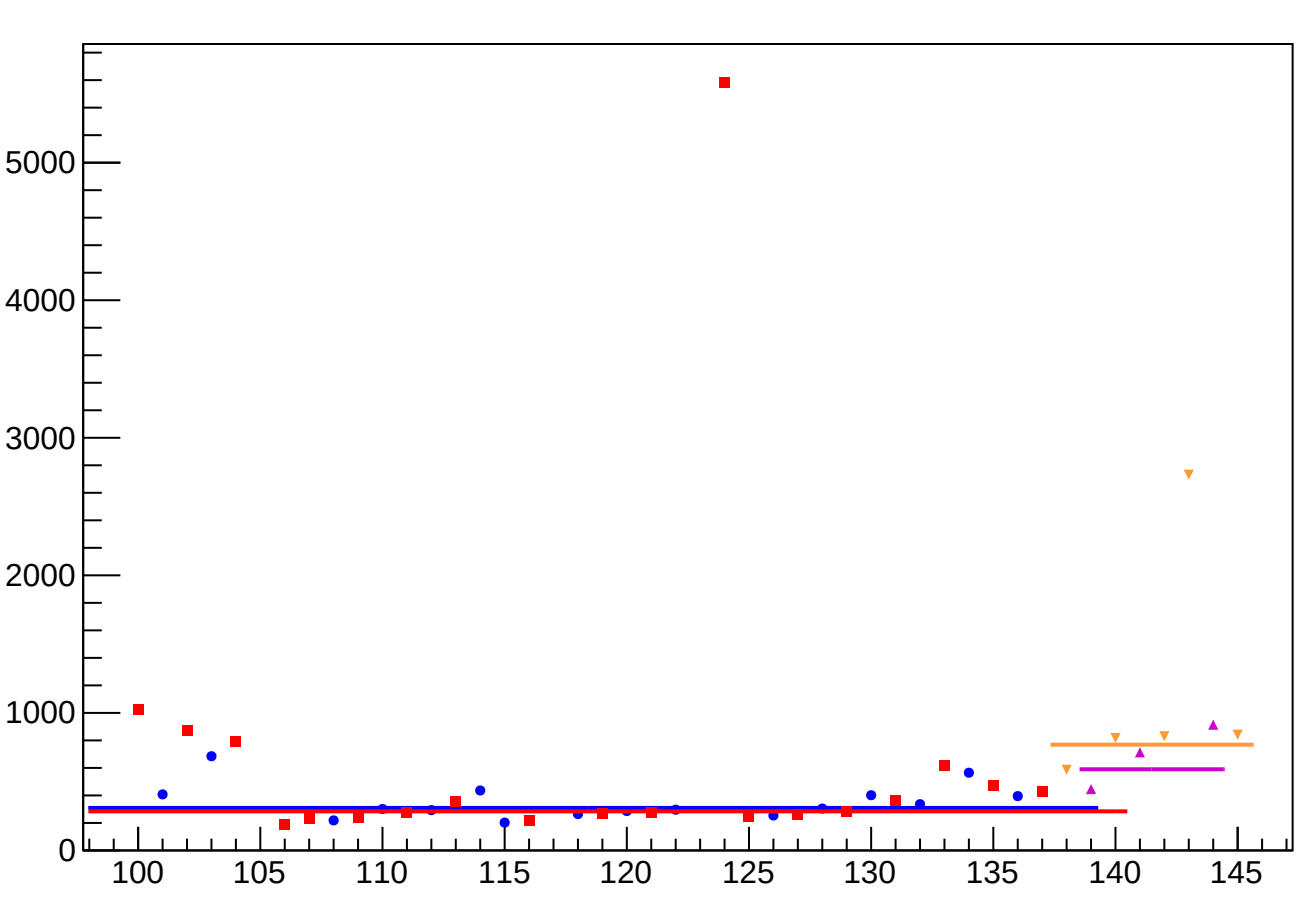
Left: 0.318+/-0.290 $\chi^2$/NDF: 16.5/7

Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.099+/-0.116 $\chi^2$/NDF:18.8/18

Out: 0.192+/-0.113 $\chi^2$/NDF:33.0/23

All: 0.051+/-0.081 $\chi^2$/NDF: 55.0/42




Right In: 309.093+/-0.086 $\chi^2$/NDF: 1014573.4/15

Left Out: 769.023+/-0.309 $\chi^2$/NDF:1008133.3/4

Right Out: 284.188+/-0.083 $\chi^2$/NDF: 1856434.1/18

Left In: 590.031+/-0.274 $\chi^2$/NDF:437211.8/2

Left: 668.635+/-0.205 $\chi^2$/NDF: 1633182.3/7

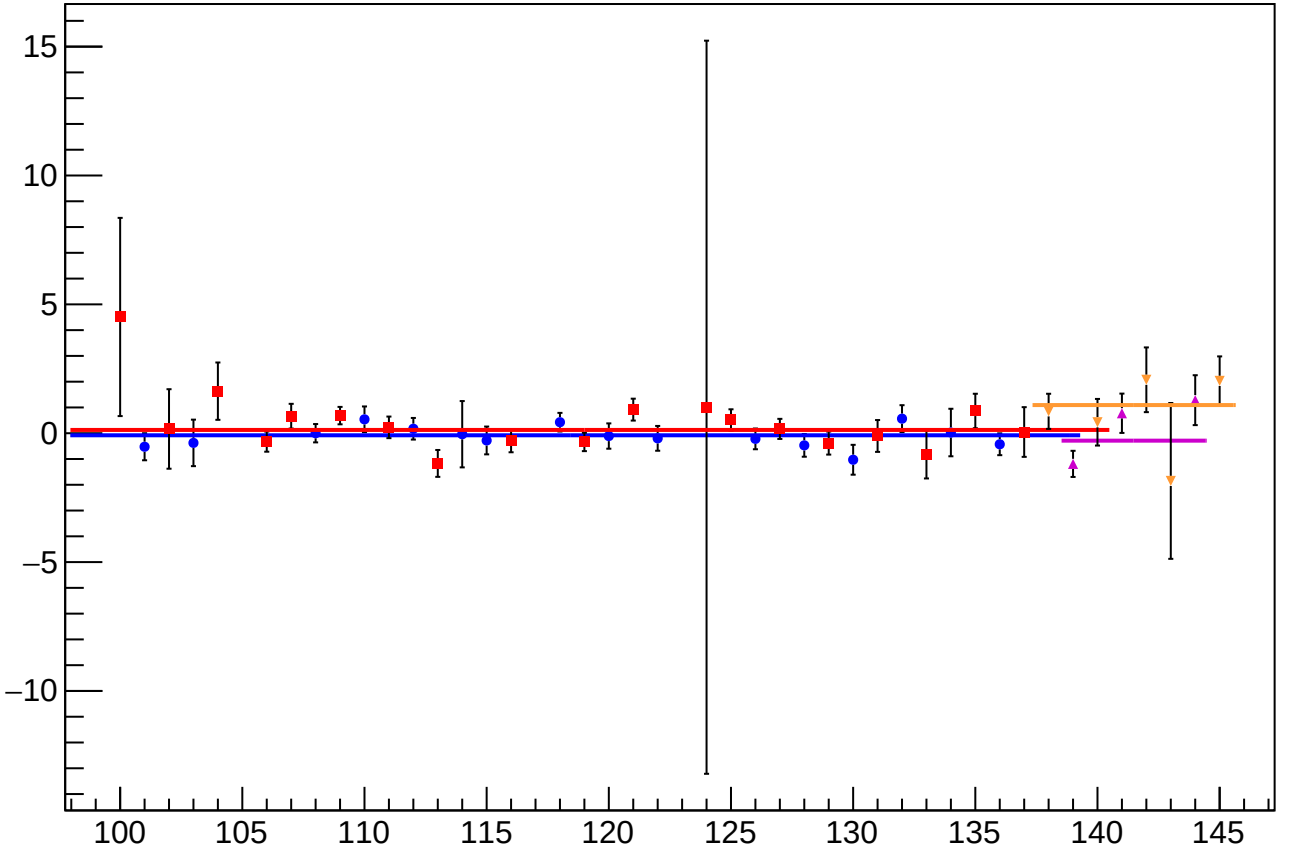
Right: 296.124+/-0.060 $\chi^2$/NDF: 2914502.7/34

In: 334.432+/-0.082 $\chi^2$/NDF:2410459.7/18

Out: 316.515+/-0.080 $\chi^2$/NDF:5157992.2/23

All: 325.216+/-0.057 $\chi^2$/NDF: 7592892.2/42

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.080+/-0.122 $\chi^2$/NDF: 10.8/15

Left Out: 1.093+/-0.437 $\chi^2$/NDF:3.2/4

Right Out: 0.128+/-0.117 $\chi^2$/NDF: 25.3/18

Left In: -0.288+/-0.387 $\chi^2$/NDF:7.7/2

Left: 0.318+/-0.290 $\chi^2$/NDF: 16.5/7

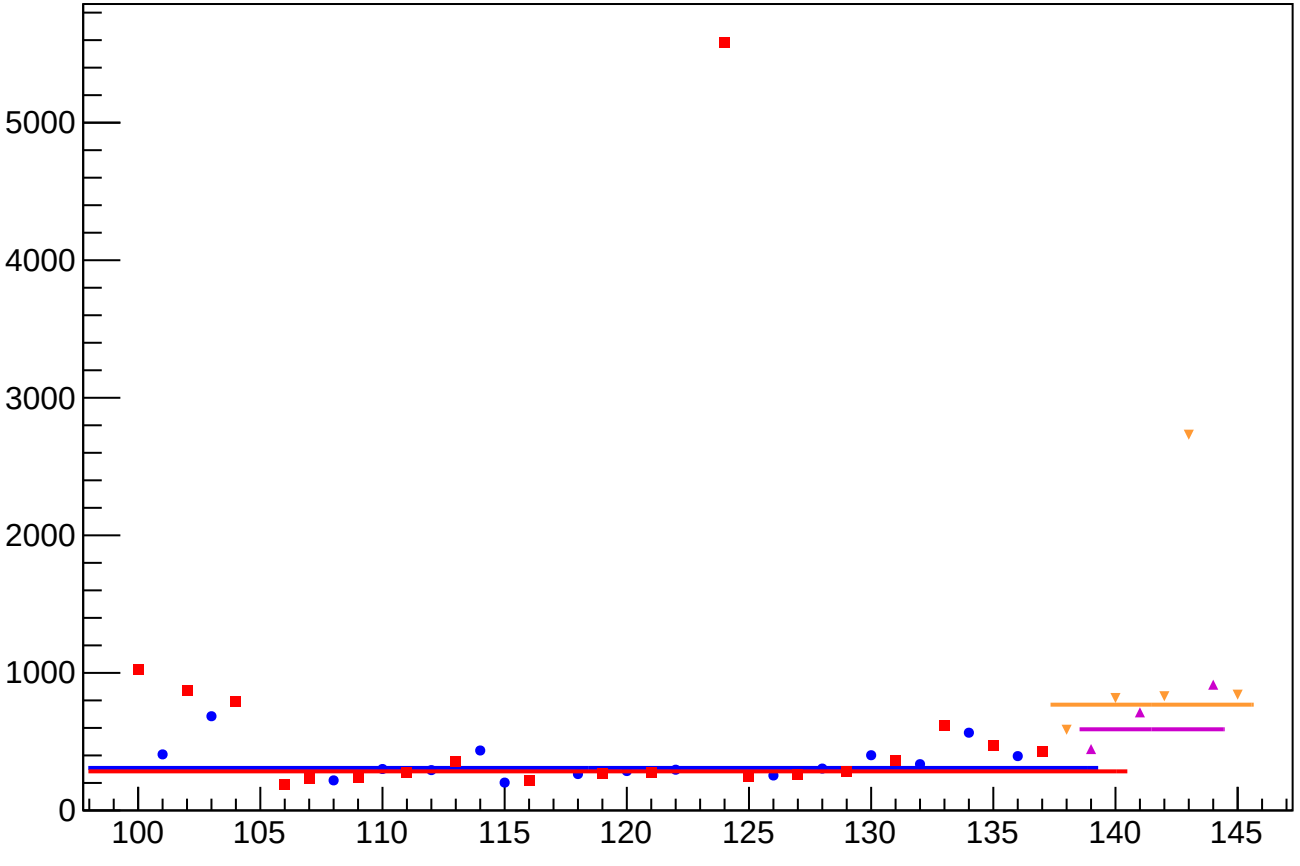
Right: 0.028+/-0.084 $\chi^2$/NDF: 37.5/34

In: -0.099+/-0.116 $\chi^2$/NDF:18.8/18

Out: 0.192+/-0.113 $\chi^2$/NDF:33.0/23

All: 0.051+/-0.081 $\chi^2$/NDF: 55.0/42

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: 769.023+/-0.309 $\chi^2$/NDF:1008133.3/4

Right Out: 284.188+/-0.083 $\chi^2$/NDF: 1856434.1/18

Left In: 590.031+/-0.274 $\chi^2$/NDF:437211.8/2

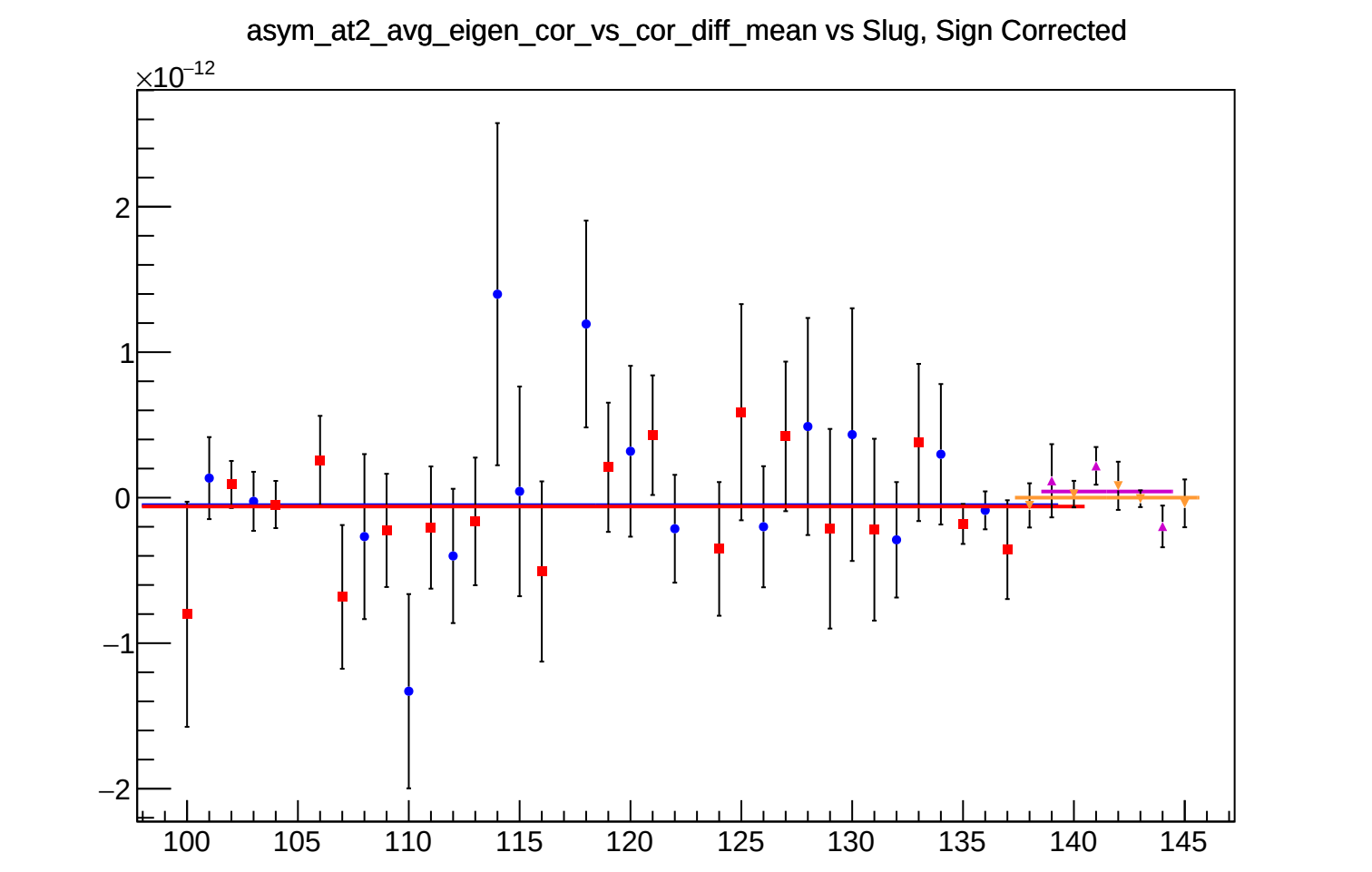
Left: 668.635+/-0.205 $\chi^2$/NDF: 1633182.3/7

Right: 296.124+/-0.060 $\chi^2$/NDF: 2914502.7/34

In: 334.432+/-0.082 $\chi^2$/NDF:2410459.7/18

Out: 316.515+/-0.080 $\chi^2$/NDF:5157992.2/23

All: 325.216+/-0.057 $\chi^2$/NDF: 7592892.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.7/2

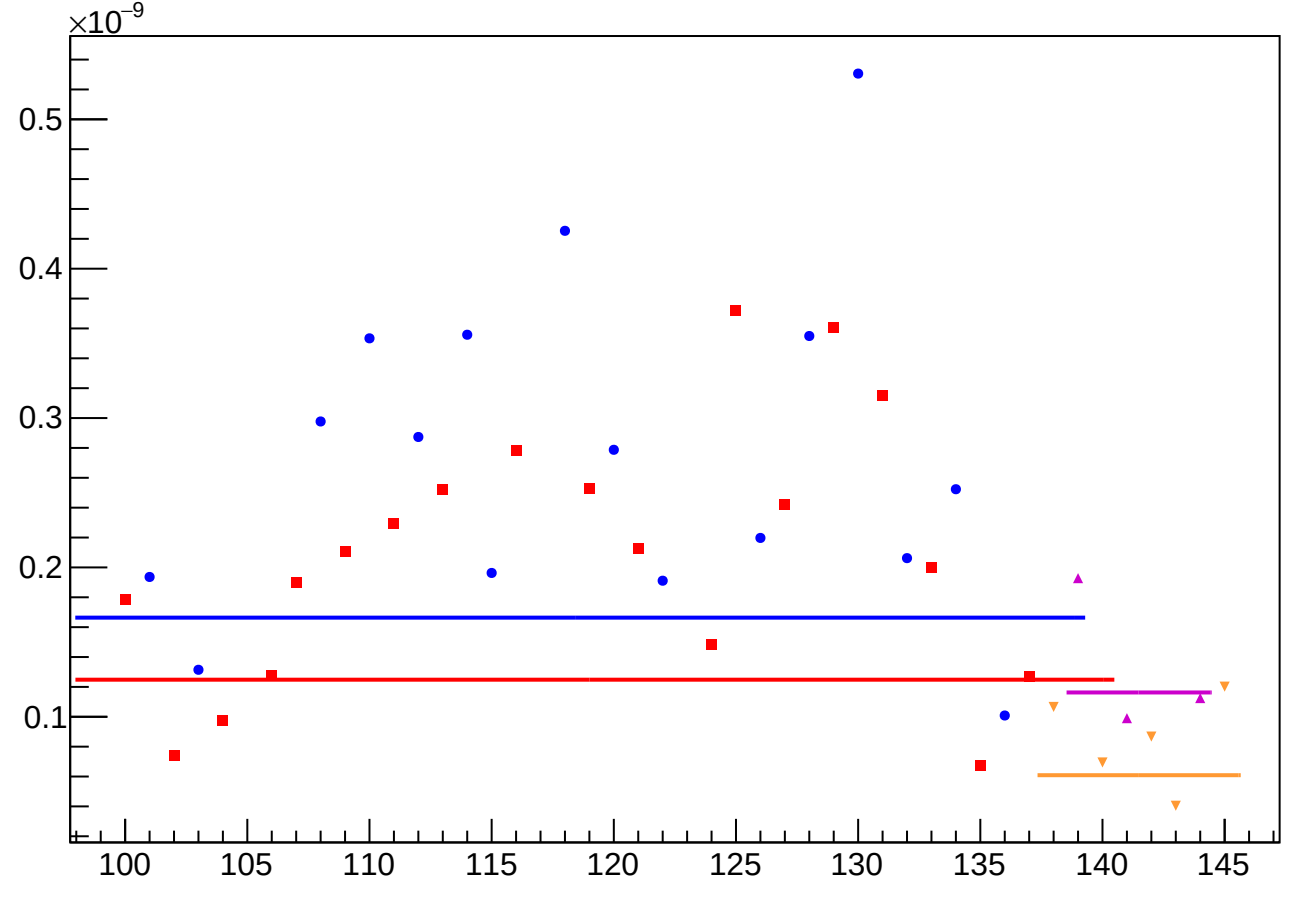
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.4/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 23.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:12.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 29.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1984237.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:758749.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2209554.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:221841.0/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 1599658.0/7

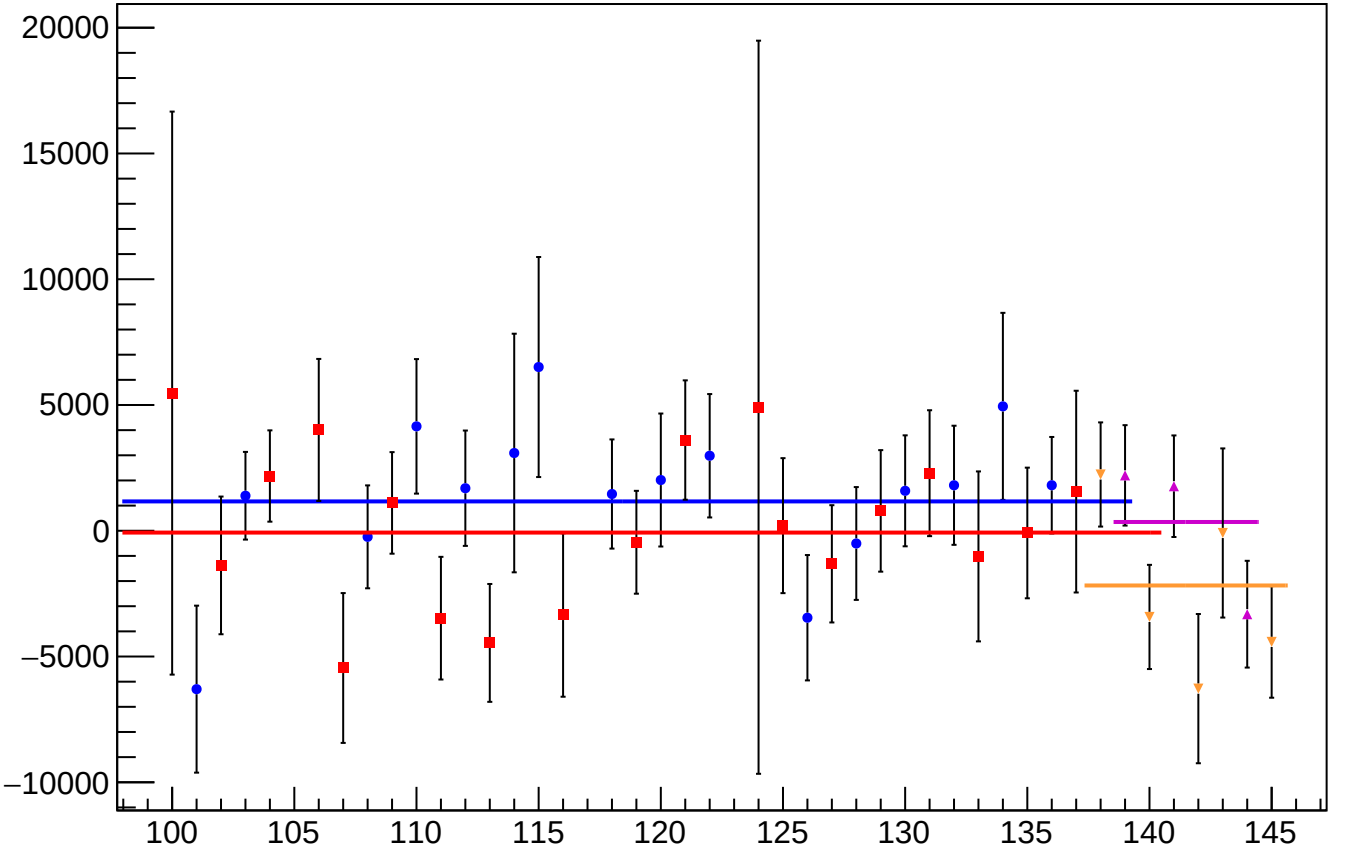
Right: 0.000+/-0.000 $\chi^2$/NDF: 4480530.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:2536628.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4177513.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8330081.4/42

# reg_asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 1166.862+/-609.171 $\chi^2$/NDF: 14.4/15

Left Out: -2175.299+/-1071.256 $\chi^2$/NDF:8.2/4

Right Out: -72.181+/-603.362 $\chi^2$/NDF: 18.3/18

Left In: 349.034+/-1179.928 $\chi^2$/NDF:4.3/2

Left: -1034.707+/-793.135 $\chi^2$/NDF: 15.1/7

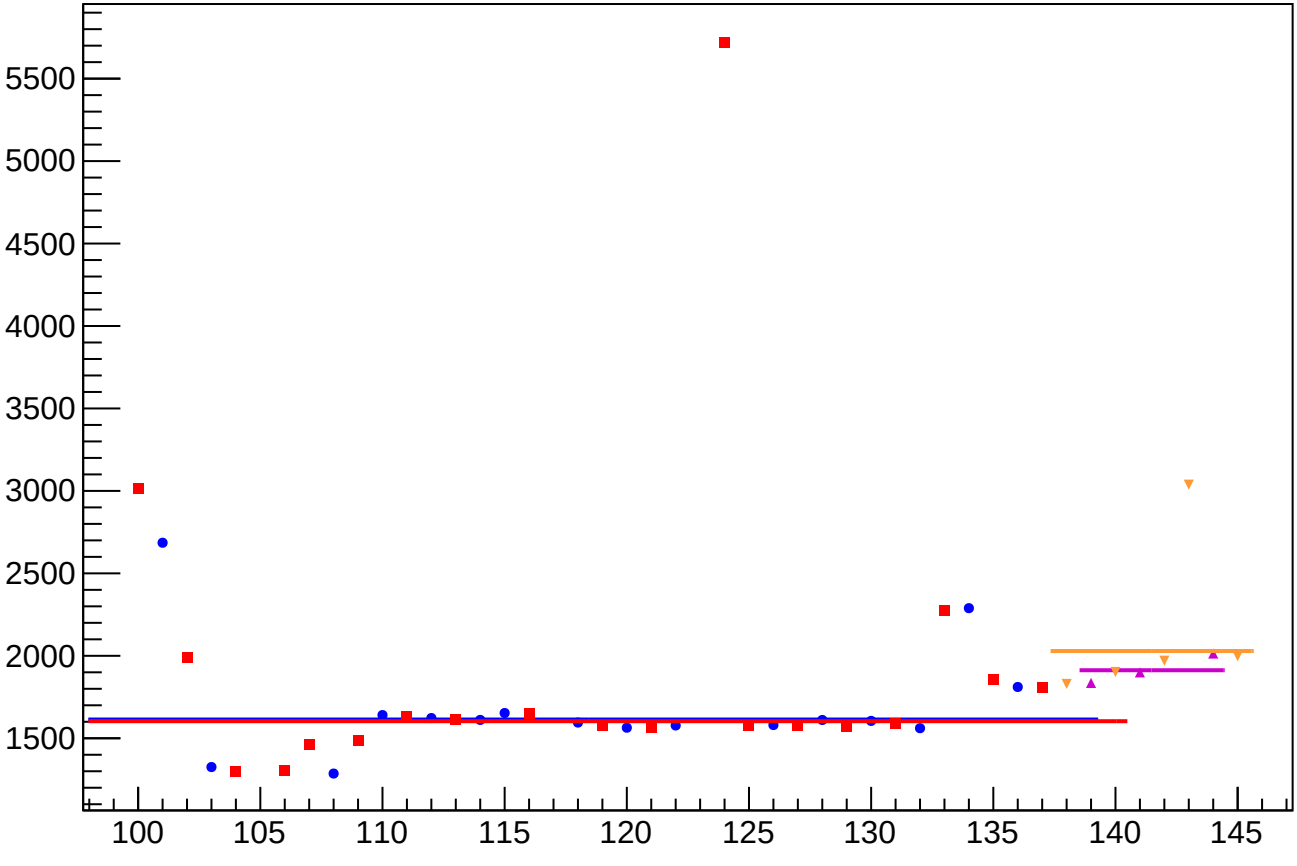
Right: 541.404+/-428.680 $\chi^2$/NDF: 34.8/34

In: 994.750+/-541.289 $\chi^2$/NDF:19.1/18

Out: -578.672+/-525.712 $\chi^2$/NDF:29.4/23

All: 185.073+/-377.121 $\chi^2$/NDF: 52.9/42

# reg_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.5/15

Left Out: 2029.063+/-0.757 $\chi^2$/NDF:207268.5/4

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.5/18

Left In: 1912.500+/-0.834 $\chi^2$/NDF:7598.6/2

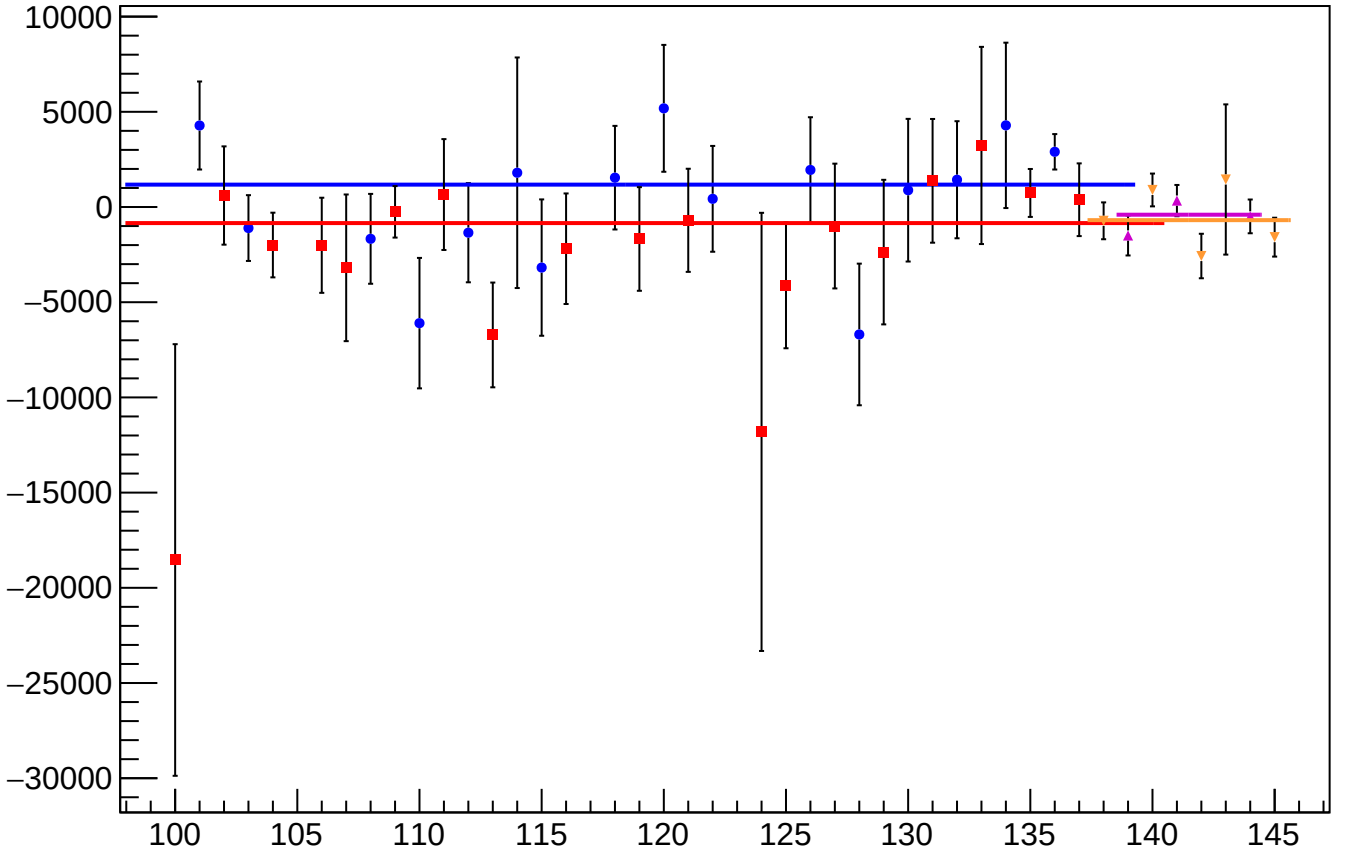
Left: 1976.395+/-0.561 $\chi^2$/NDF: 225566.3/7

Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.6/34

In: 1676.562+/-0.383 $\chi^2$/NDF:513570.3/18

Out: 1705.960+/-0.372 $\chi^2$/NDF:872715.9/23

All: 1691.690+/-0.267 $\chi^2$/NDF: 1389322.2/42




Right In: 1175.479+/-579.062 $\chi^2$/NDF: 22.0/15

Left Out: -690.047+/-489.580 $\chi^2$/NDF:7.0/4

Right Out: -843.857+/-557.438 $\chi^2$/NDF: 14.3/18

Left In: -404.256+/-522.387 $\chi^2$/NDF:1.9/2

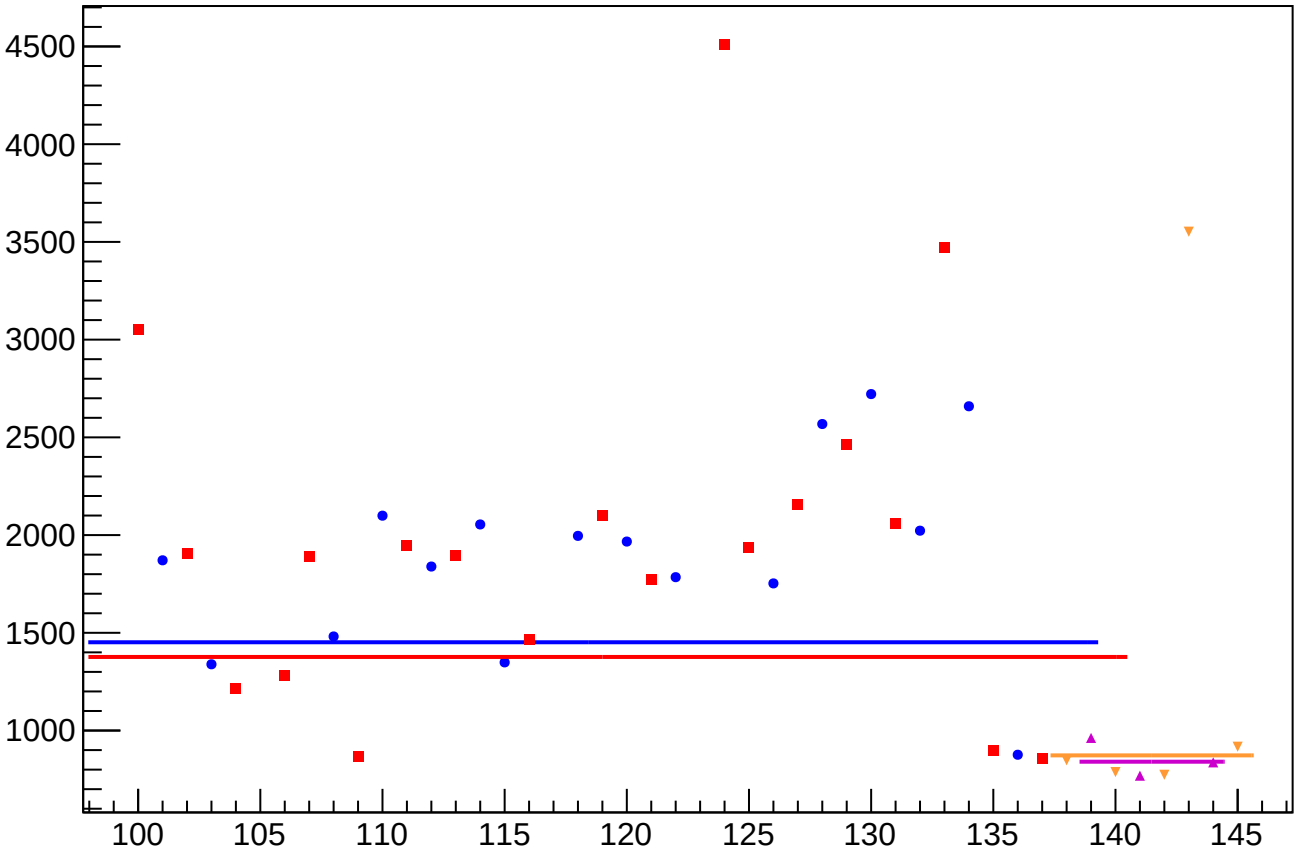
Left: -556.407+/-357.221 $\chi^2$/NDF: 9.1/7

Right: 127.404+/-401.596 $\chi^2$/NDF: 42.6/34

In: 304.541+/-387.877 $\chi^2$/NDF:28.0/18

Out: -757.025+/-367.850 $\chi^2$/NDF:21.4/23

All: -254.354+/-266.909 $\chi^2$/NDF: 53.3/42




Right In: 1451.631+/-0.409 $\chi^2$/NDF: 1790839.5/15

Left Out: 872.881+/-0.346 $\chi^2$/NDF:961691.2/4

Right Out: 1376.470+/-0.394 $\chi^2$/NDF: 2132051.1/18

Left In: 840.534+/-0.369 $\chi^2$/NDF:42099.4/2

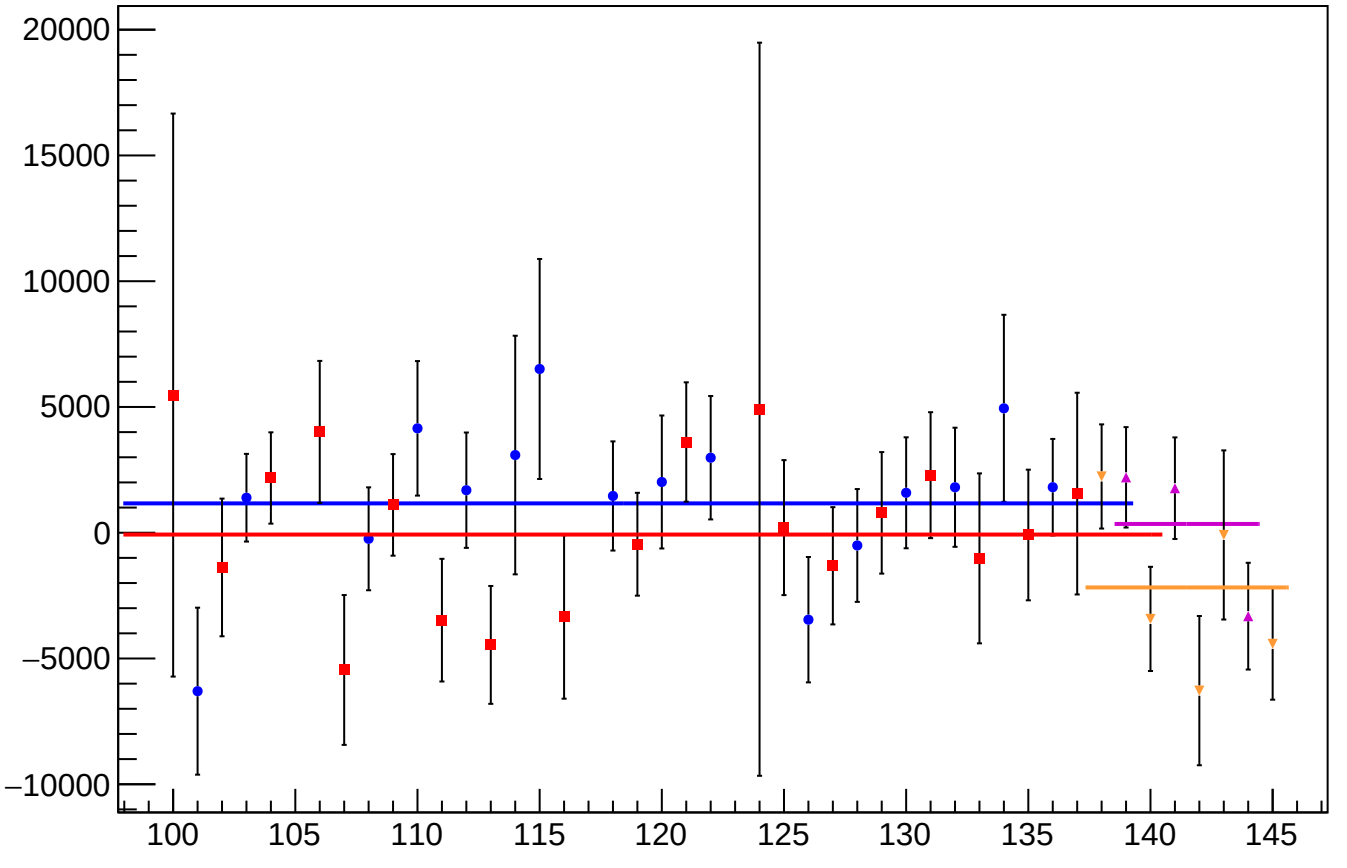
Left: 857.755+/-0.253 $\chi^2$/NDF: 1007873.1/7

Right: 1412.621+/-0.284 $\chi^2$/NDF: 3940379.2/34

In: 1114.722+/-0.274 $\chi^2$/NDF:3060950.7/18

Out: 1092.174+/-0.260 $\chi^2$/NDF:4015217.0/23

All: 1102.851+/-0.189 $\chi^2$/NDF: 7079726.0/42




Right In: 1166.769+/-609.171 $\chi^2$/NDF: 14.4/15

Left Out: -2175.456+/-1071.256 $\chi^2$/NDF:8.2/4

Right Out: -72.499+/-603.362 $\chi^2$/NDF: 18.3/18

Left In: 349.122+/-1179.928 $\chi^2$/NDF:4.3/2

Left: -1034.753+/-793.135 $\chi^2$/NDF: 15.1/7

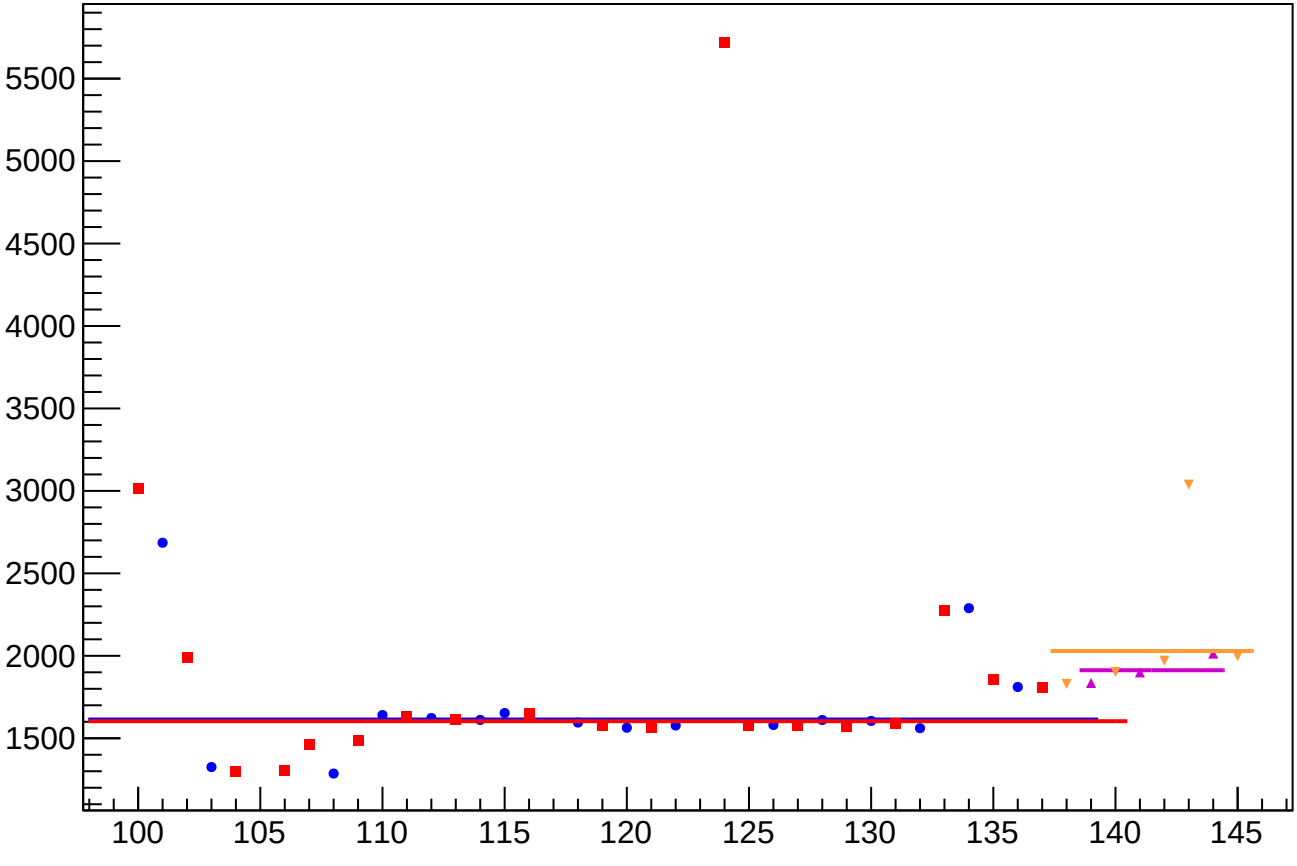
Right: 541.197+/-428.680 $\chi^2$/NDF: 34.8/34

In: 994.696+/-541.289 $\chi^2$/NDF:19.1/18

Out: -578.952+/-525.712 $\chi^2$/NDF:29.4/23

All: 184.902+/-377.121 $\chi^2$/NDF: 52.9/42

# cor_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.8/15

Left Out: 2029.063+/-0.757 $\chi^2$/NDF:207268.5/4

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.4/18

Left In: 1912.500+/-0.834 $\chi^2$/NDF:7598.6/2

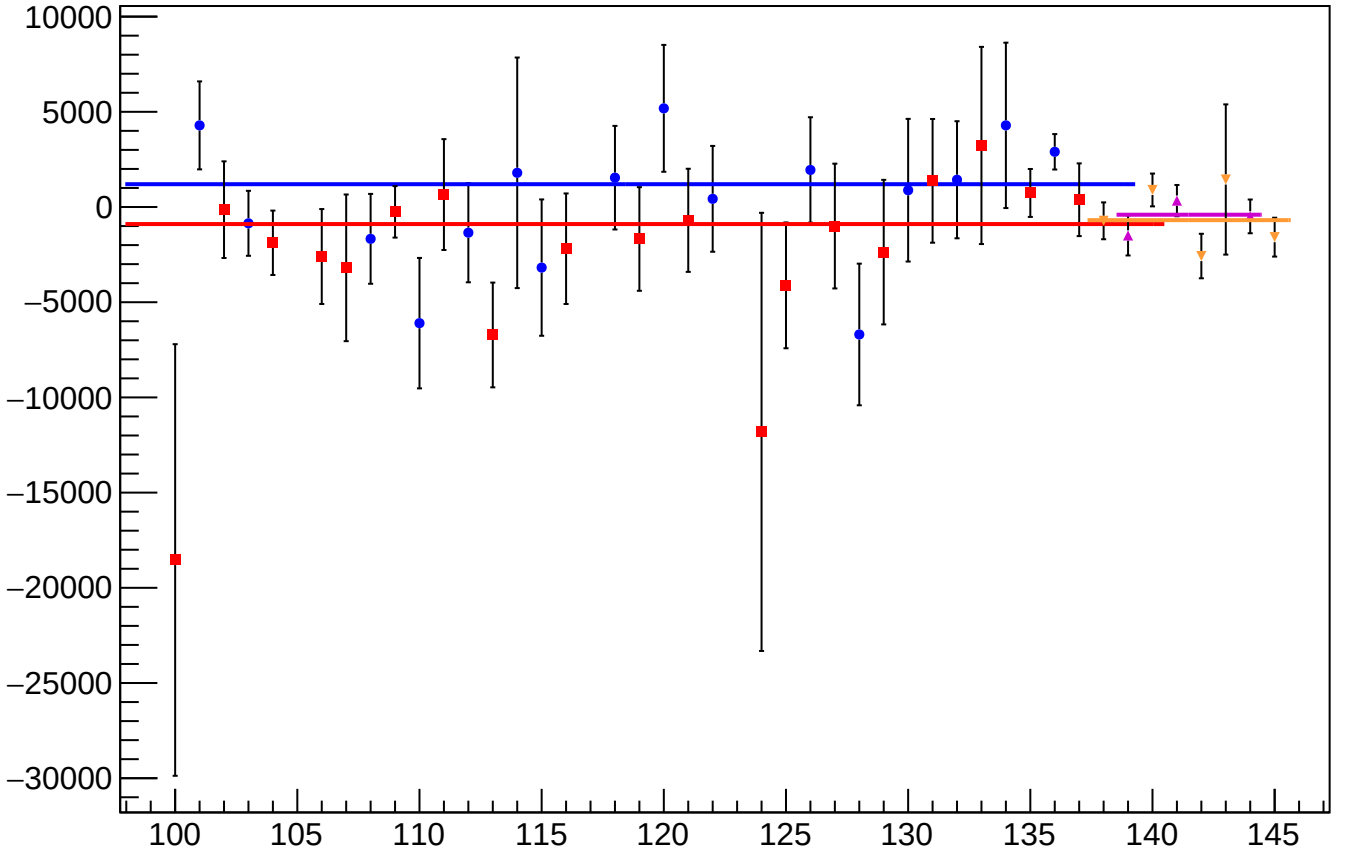
Left: 1976.395+/-0.561 $\chi^2$/NDF: 225566.3/7

Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.8/34

In: 1676.561+/-0.383 $\chi^2$/NDF:513570.6/18

Out: 1705.960+/-0.372 $\chi^2$/NDF:872716.1/23

All: 1691.690+/-0.267 $\chi^2$/NDF: 1389322.7/42




Right In: 1198.338+/-578.240 $\chi^2$/NDF: 21.7/15

Left Out: -689.945+/-489.595 $\chi^2$/NDF:7.1/4

Right Out: -895.463+/-556.666 $\chi^2$/NDF: 14.2/18

Left In: -404.420+/-522.380 $\chi^2$/NDF:1.9/2

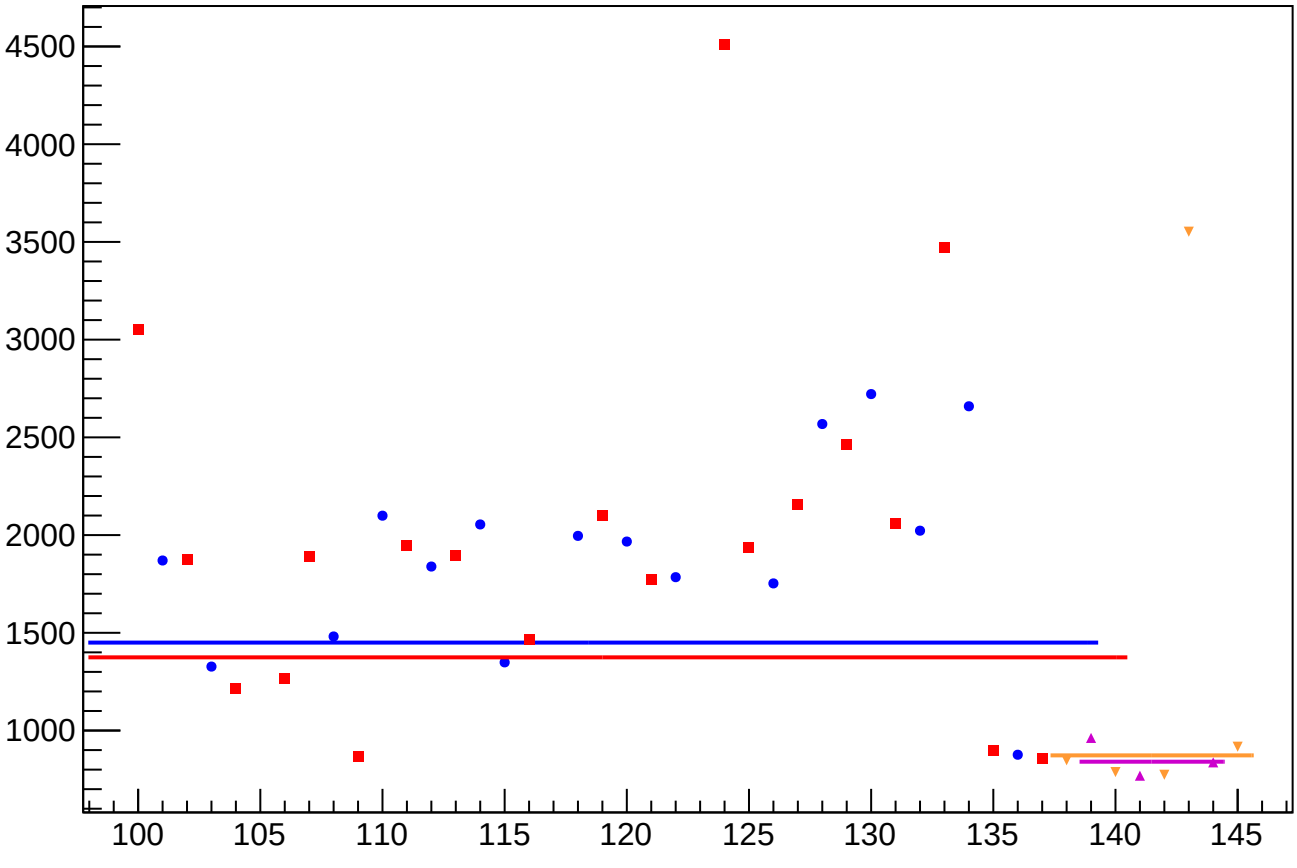
Left: -556.423+/-357.224 $\chi^2$/NDF: 9.1/7

Right: 111.650+/-401.033 $\chi^2$/NDF: 42.7/34

In: 315.822+/-387.627 $\chi^2$/NDF:27.8/18

Out: -779.583+/-367.634 $\chi^2$/NDF:21.3/23

All: -260.857+/-266.745 $\chi^2$/NDF: 53.3/42




Right In: 1449.939+/-0.409 $\chi^2$/NDF: 1792673.2/15

Left Out: 872.911+/-0.346 $\chi^2$/NDF:961655.4/4

Right Out: 1374.438+/-0.394 $\chi^2$/NDF: 2127695.6/18

Left In: 840.521+/-0.369 $\chi^2$/NDF:42112.7/2

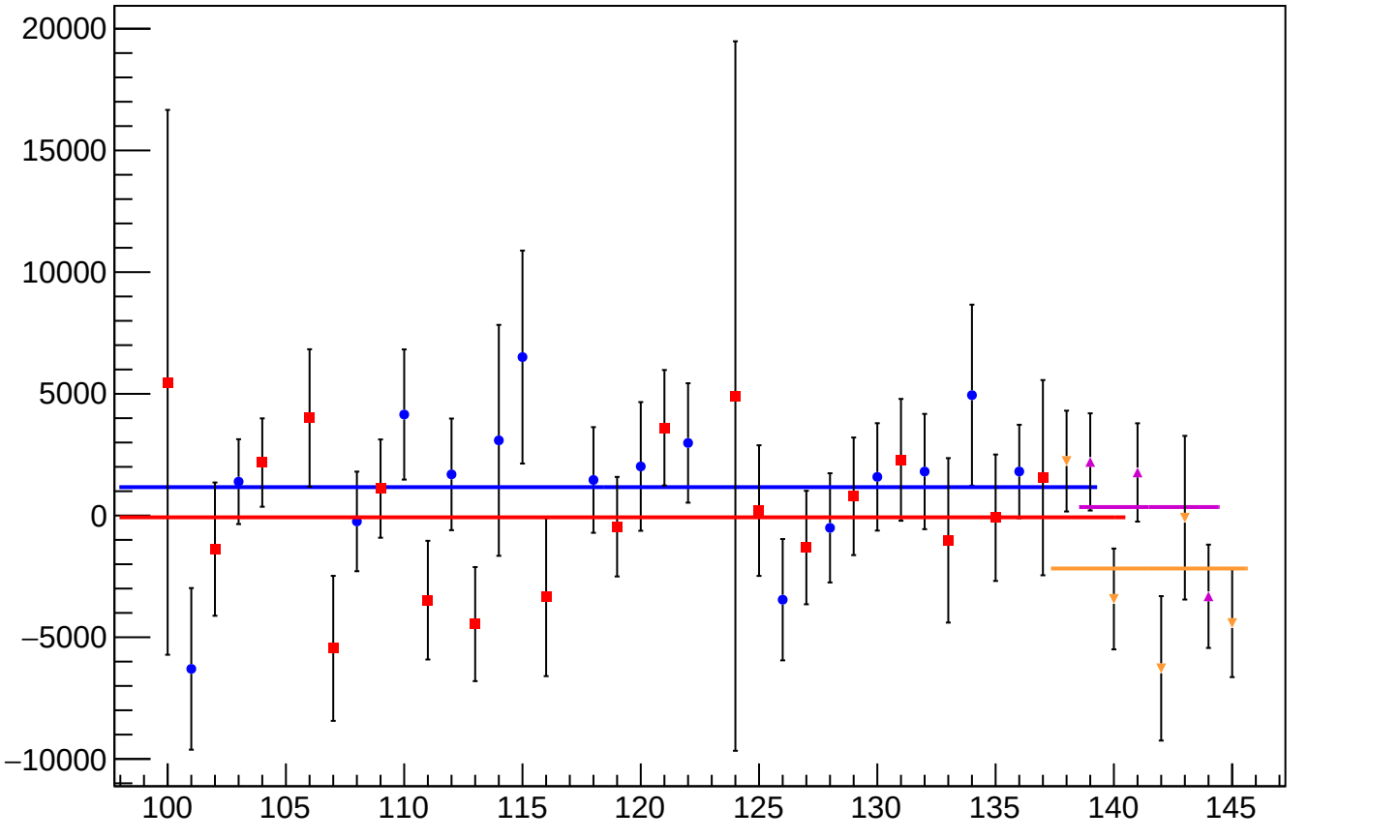
Left: 857.764+/-0.253 $\chi^2$/NDF: 1007861.6/7

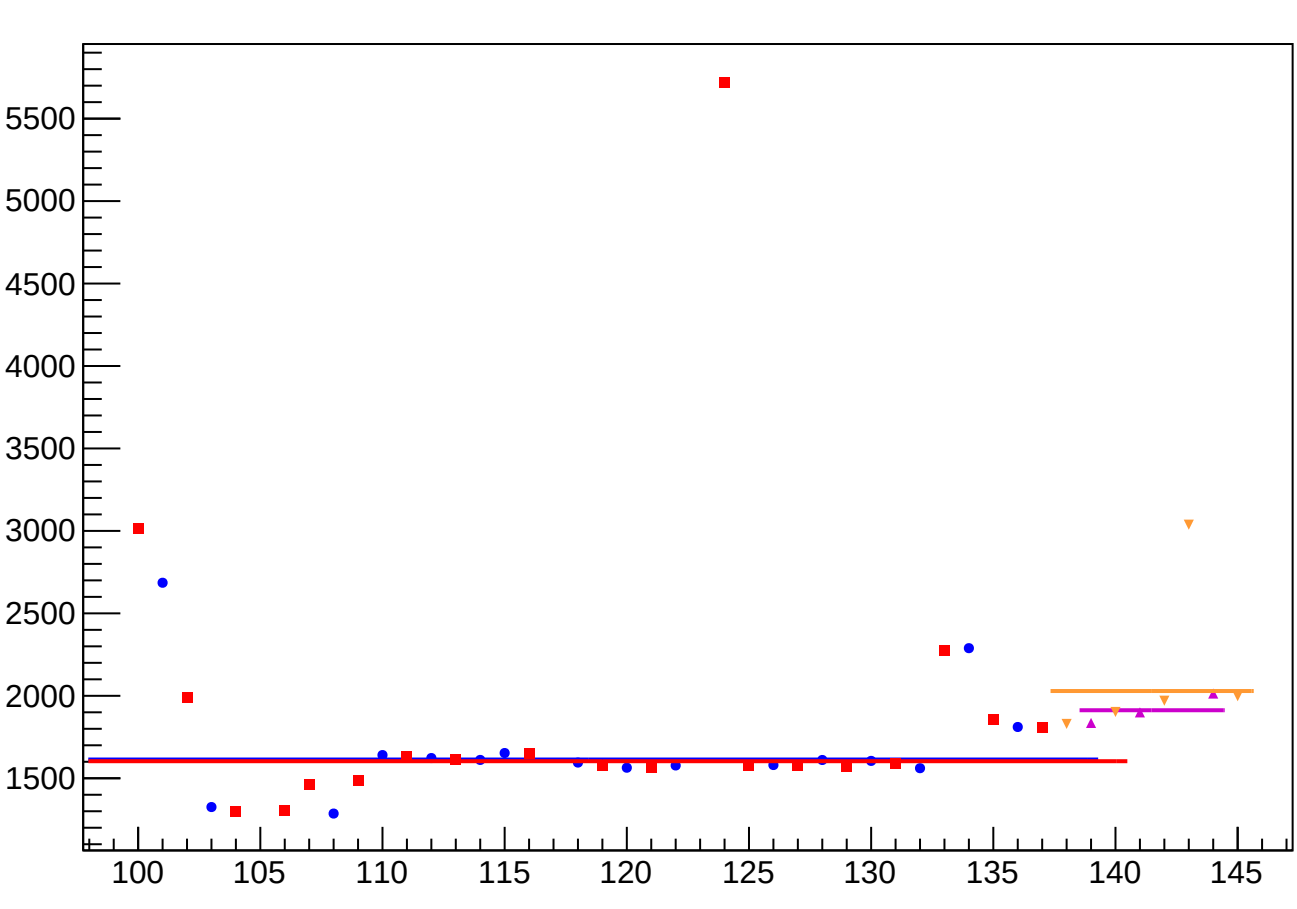
Right: 1410.753+/-0.284 $\chi^2$/NDF: 3938065.4/34

In: 1114.379+/-0.274 $\chi^2$/NDF:3057988.0/18

Out: 1091.655+/-0.260 $\chi^2$/NDF:4004698.8/23

All: 1102.416+/-0.189 $\chi^2$/NDF: 7066305.1/42


eigen_cor_asym_at2_dd_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: 1166.769+/-609.171 χ²/NDF: 14.4/15
Left Out: -2175.456+/-1071.256 χ²/NDF:8.2/4
Right Out: -72.499+/-603.362 χ²/NDF: 18.3/18
Left In: 349.122+/-1179.928 χ²/NDF:4.3/2
Left: -1034.753+/-793.135 χ²/NDF: 15.1/7
Right: 541.197+/-428.680 χ²/NDF: 34.8/34
In: 994.696+/-541.289 χ²/NDF:19.1/18
Out: -578.952+/-525.712 χ²/NDF:29.4/23
All: 184.902+/-377.121 χ²/NDF: 52.9/42




Right In: 1613.674+/-0.431 $\chi^2$/NDF: 404688.8/15

Left Out: 2029.063+/-0.757 $\chi^2$/NDF:207268.5/4

Right Out: 1603.464+/-0.427 $\chi^2$/NDF: 425793.4/18

Left In: 1912.500+/-0.834 $\chi^2$/NDF:7598.6/2

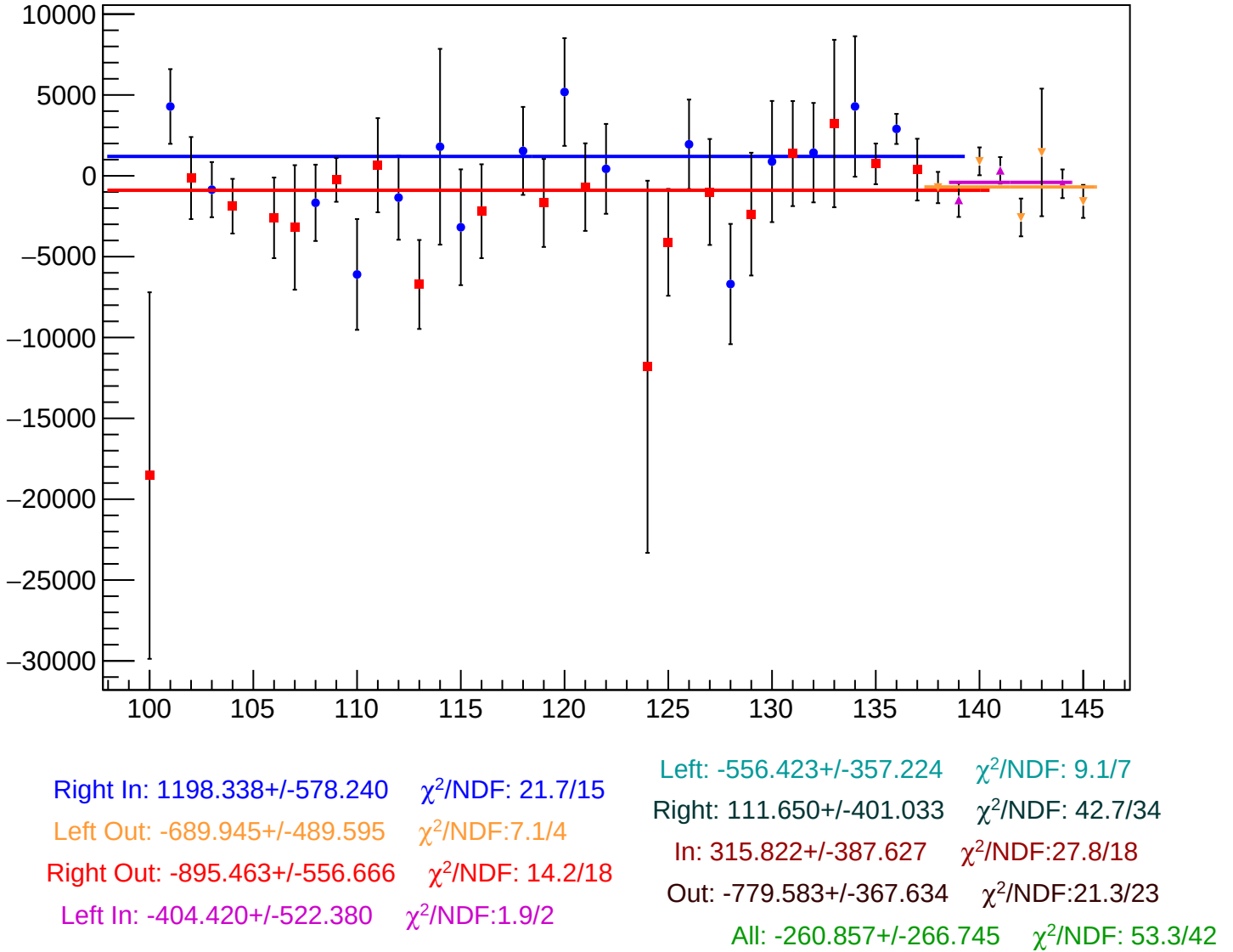
Left: 1976.395+/-0.561 $\chi^2$/NDF: 225566.3/7

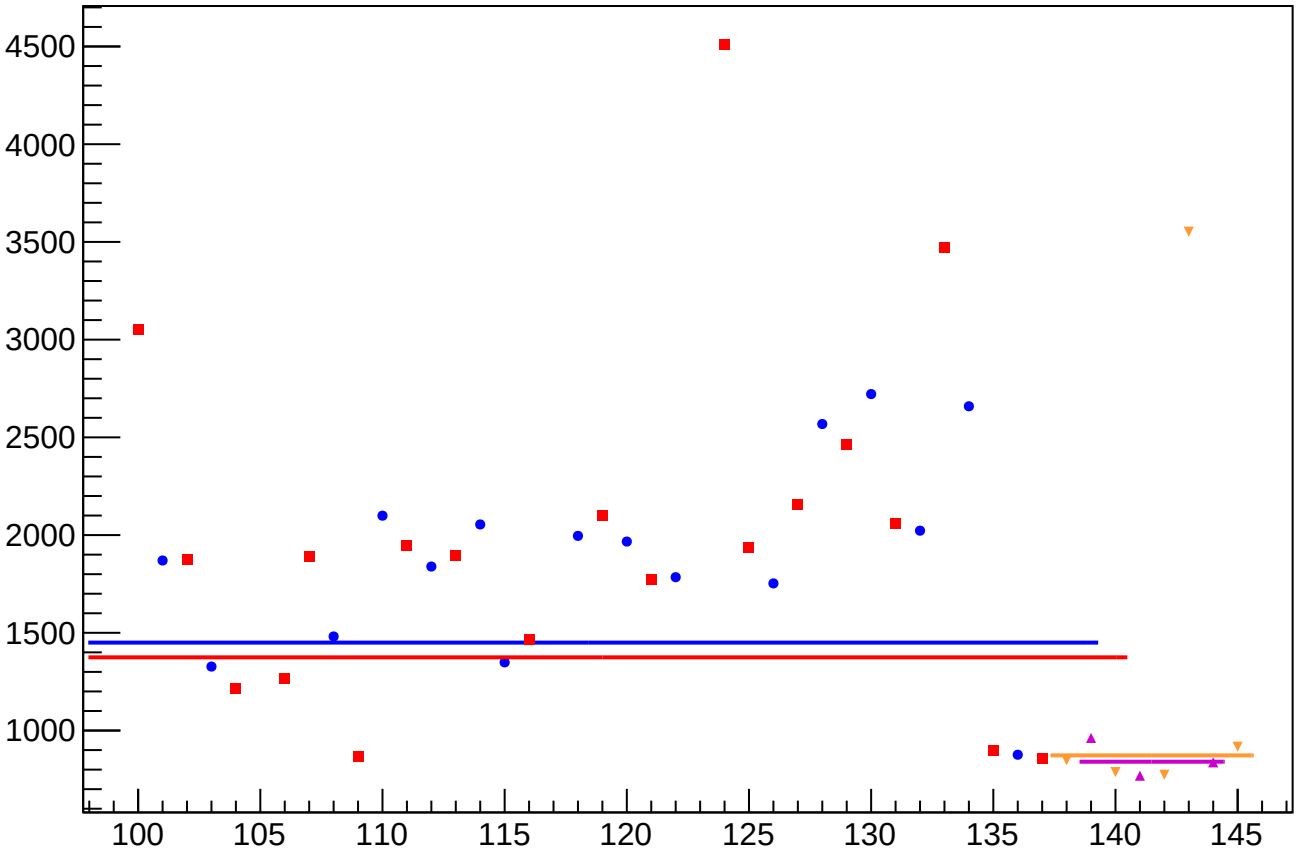
Right: 1608.520+/-0.303 $\chi^2$/NDF: 830765.8/34

In: 1676.561+/-0.383 $\chi^2$/NDF:513570.6/18

Out: 1705.960+/-0.372 $\chi^2$/NDF:872716.1/23

All: 1691.690+/-0.267 $\chi^2$/NDF: 1389322.7/42


asym_at2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: 1198.338+/-578.240 χ²/NDF: 21.7/15
Left Out: -689.945+/-489.595 χ²/NDF:7.1/4
Right Out: -895.463+/-556.666 χ²/NDF: 14.2/18
Left In: -404.420+/-522.380 χ²/NDF:1.9/2
Left: -556.423+/-357.224 χ²/NDF: 9.1/7
Right: 111.650+/-401.033 χ²/NDF: 42.7/34
In: 315.822+/-387.627 χ²/NDF:27.8/18
Out: -779.583+/-367.634 χ²/NDF:21.3/23
All: -260.857+/-266.745 χ²/NDF: 53.3/42




Right In: 1449.939+/-0.409 $\chi^2$/NDF: 1792673.2/15

Left Out: 872.911+/-0.346 $\chi^2$/NDF:961655.4/4

Right Out: 1374.438+/-0.394 $\chi^2$/NDF: 2127695.6/18

Left In: 840.521+/-0.369 $\chi^2$/NDF:42112.7/2

Left: 857.764+/-0.253 $\chi^2$/NDF: 1007861.6/7

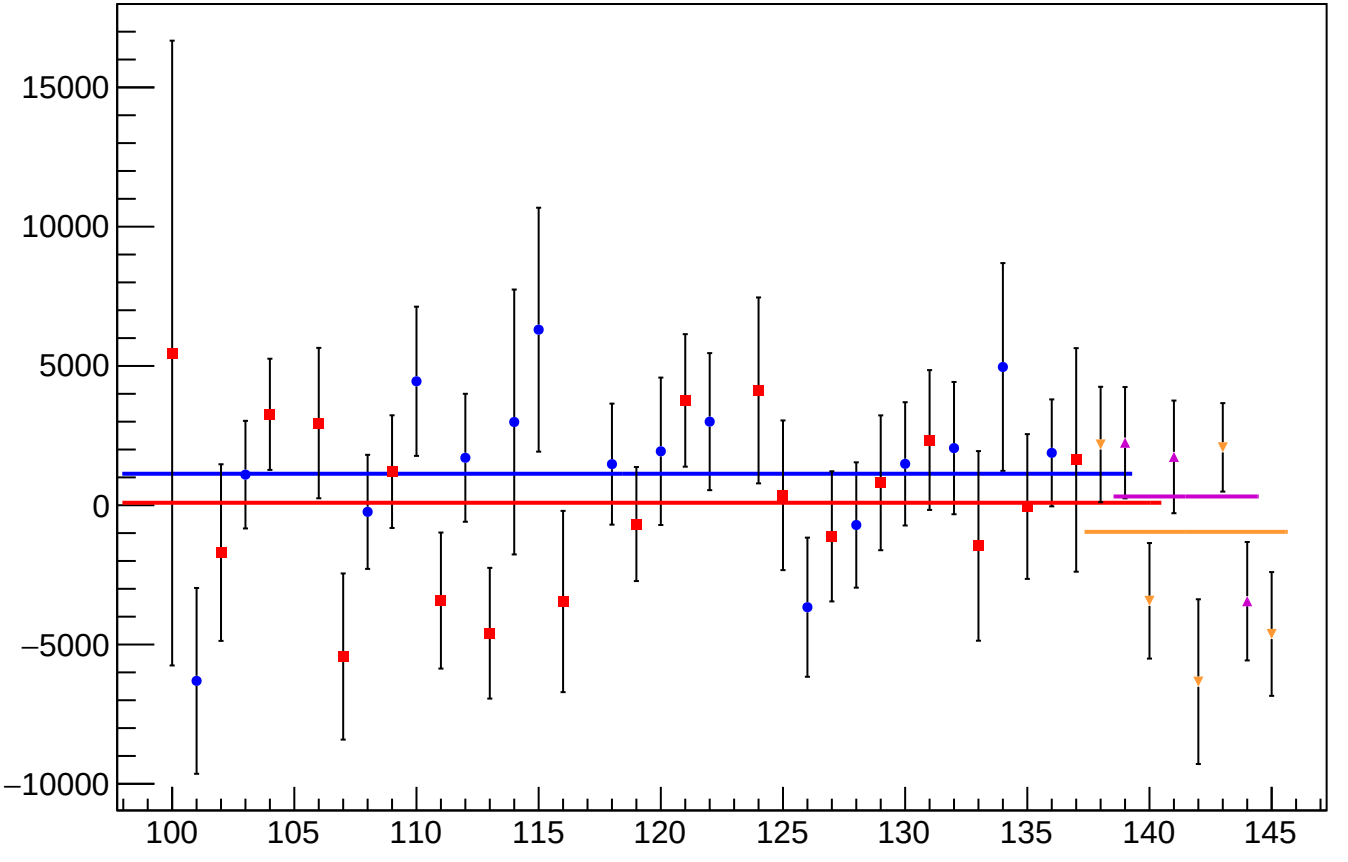
Right: 1410.753+/-0.284 $\chi^2$/NDF: 3938065.4/34

In: 1114.379+/-0.274 $\chi^2$/NDF:3057988.0/18

Out: 1091.655+/-0.260 $\chi^2$/NDF:4004698.8/23

All: 1102.416+/-0.189 $\chi^2$/NDF: 7066305.1/42

# dit_asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 1130.726+/-617.236 $\chi^2$/NDF: 15.0/15

Left Out: -955.097+/-920.993 $\chi^2$/NDF:13.4/4

Right Out: 89.220+/-603.072 $\chi^2$/NDF: 20.7/18

Left In: 314.273+/-1181.453 $\chi^2$/NDF:4.6/2

Left: -475.290+/-726.366 $\chi^2$/NDF: 18.7/7

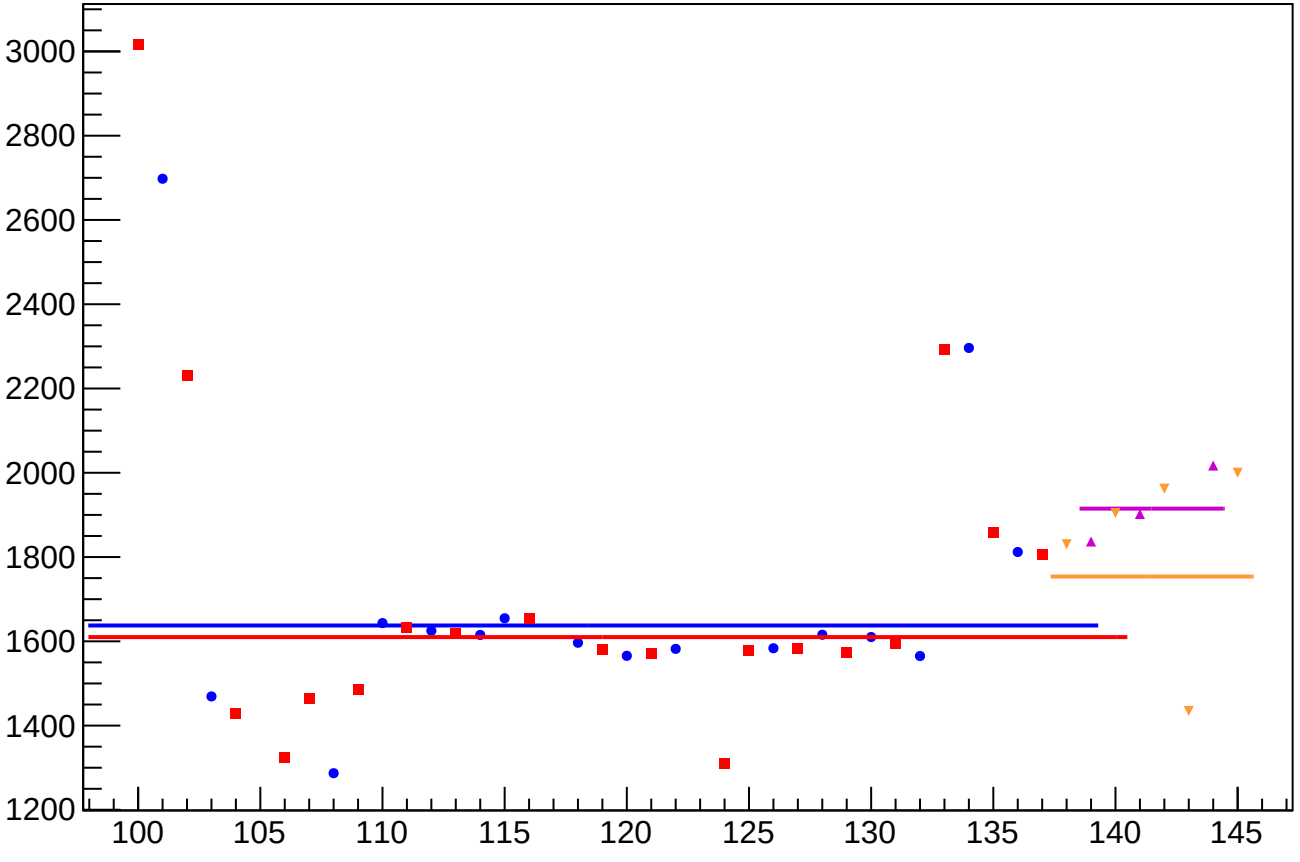
Right: 597.886+/-431.357 $\chi^2$/NDF: 37.1/34

In: 955.664+/-547.075 $\chi^2$/NDF:19.9/18

Out: -224.177+/-504.531 $\chi^2$/NDF:35.0/23

All: 318.089+/-370.887 $\chi^2$/NDF: 57.4/42

# dit_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1637.574+/-0.436 $\chi^2$/NDF: 361417.0/15

Left Out: 1753.785+/-0.651 $\chi^2$/NDF:128601.4/4

Right Out: 1610.043+/-0.426 $\chi^2$/NDF: 280812.5/18

Left In: 1914.919+/-0.835 $\chi^2$/NDF:7752.7/2

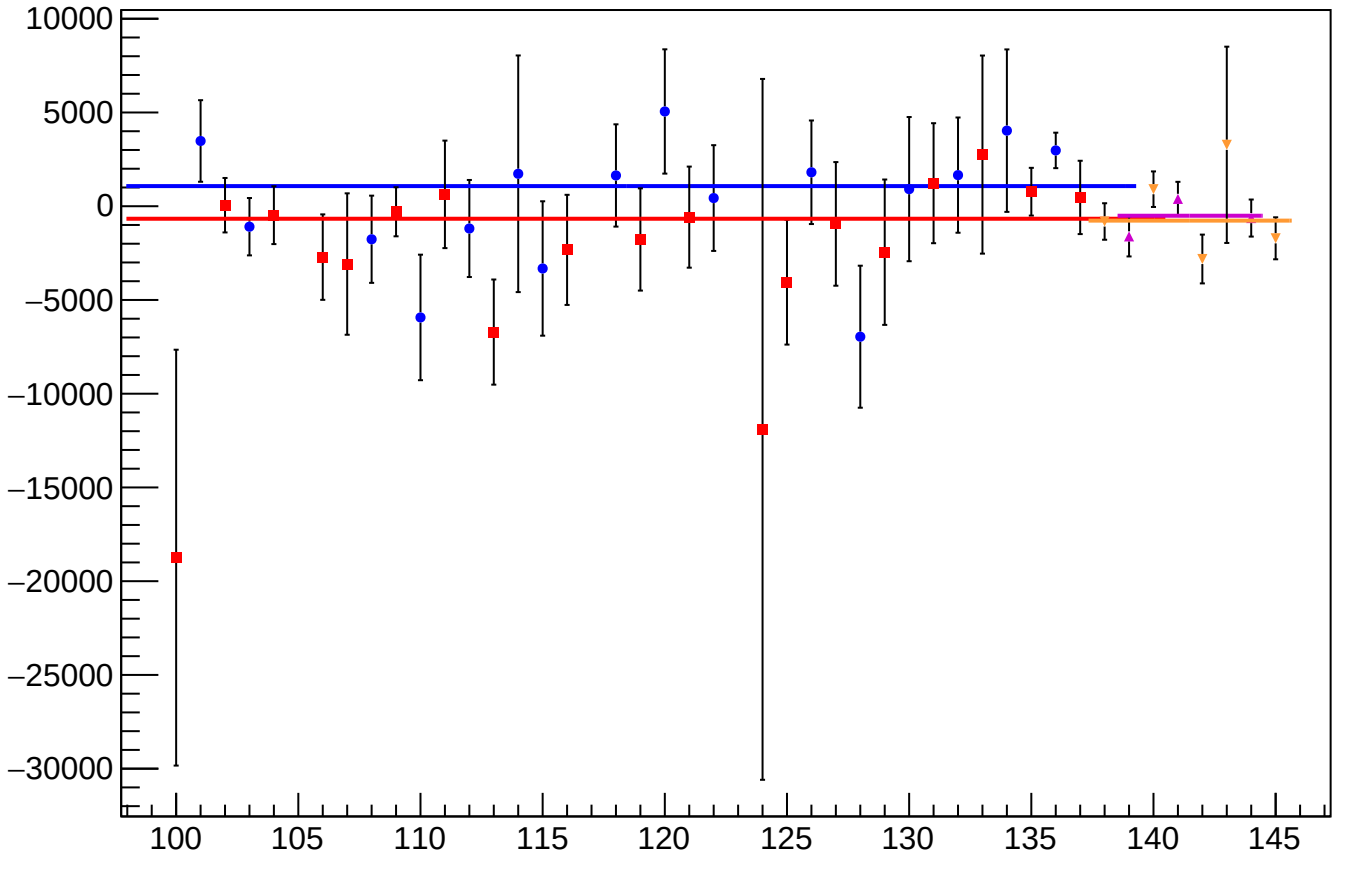
Left: 1814.692+/-0.514 $\chi^2$/NDF: 159494.5/7

Right: 1623.489+/-0.305 $\chi^2$/NDF: 644265.1/34

In: 1697.042+/-0.387 $\chi^2$/NDF:455752.4/18

Out: 1653.180+/-0.357 $\chi^2$/NDF:443511.5/23

All: 1673.339+/-0.262 $\chi^2$/NDF: 906211.2/42




Right In: 1073.600+/-571.609 $\chi^2$/NDF: 22.0/15

Left Out: -767.655+/-527.662 $\chi^2$/NDF:6.9/4

Right Out: -667.777+/-523.477 $\chi^2$/NDF: 13.6/18

Left In: -507.325+/-567.226 $\chi^2$/NDF:2.1/2

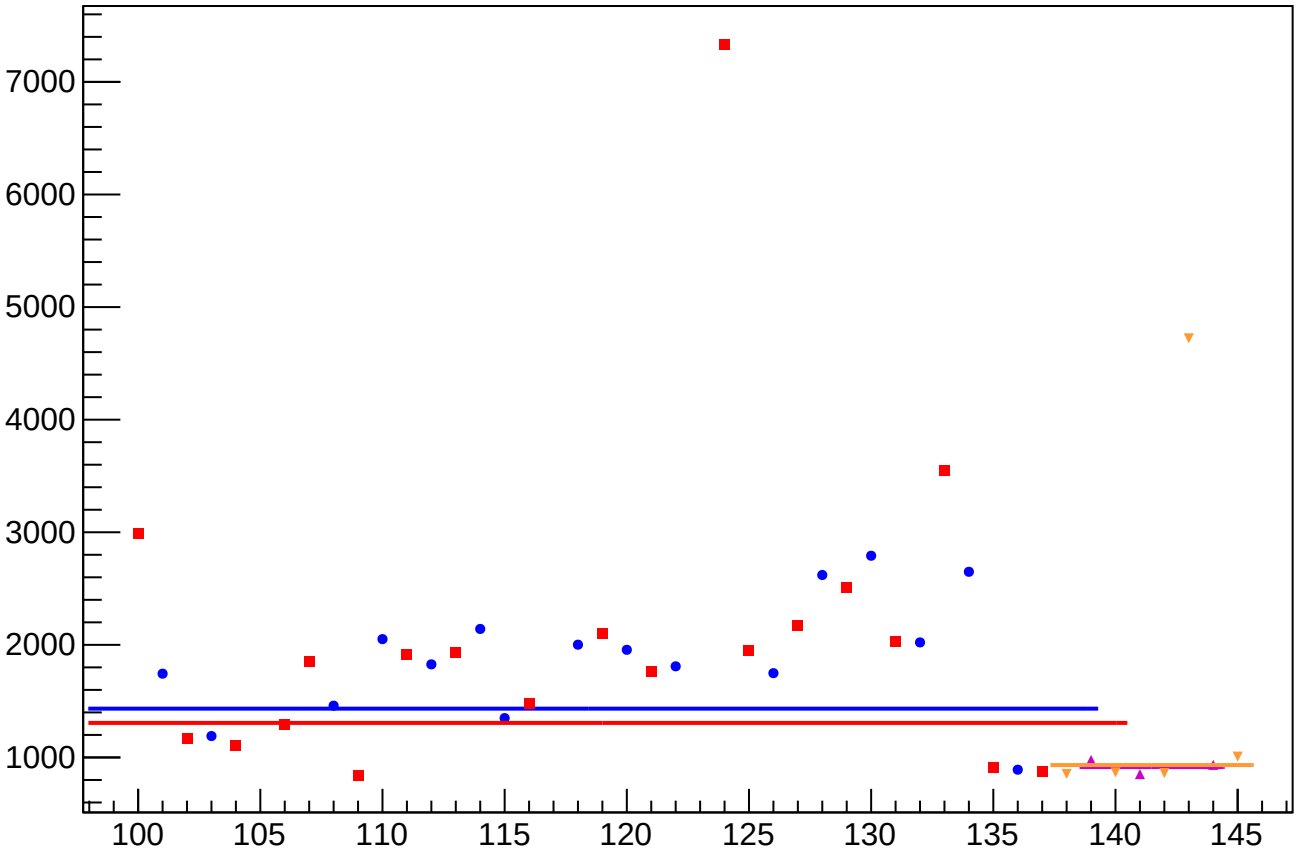
Left: -646.885+/-386.344 $\chi^2$/NDF: 9.1/7

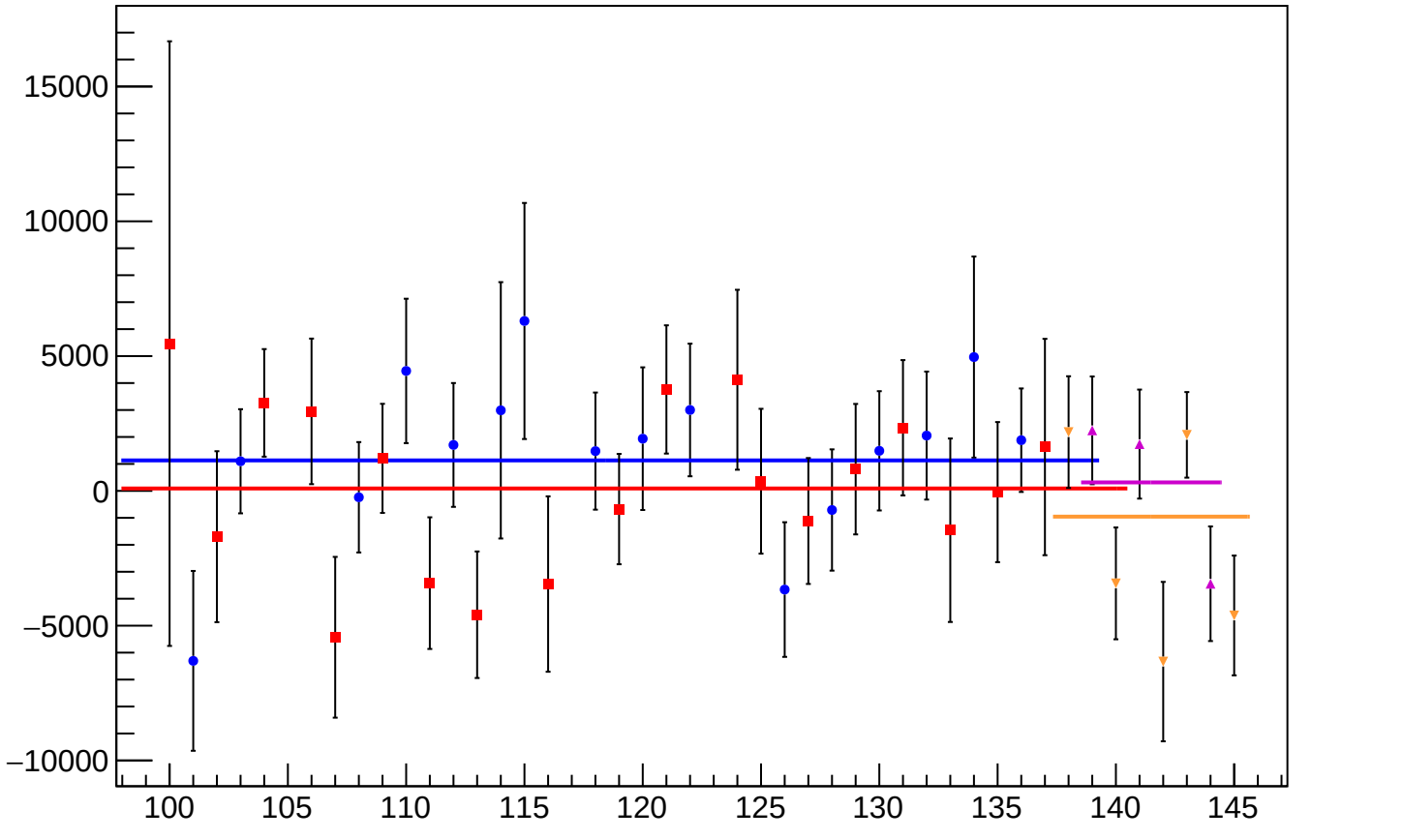
Right: 126.521+/-386.051 $\chi^2$/NDF: 40.6/34

In: 277.053+/-402.630 $\chi^2$/NDF:27.9/18

Out: -717.318+/-371.625 $\chi^2$/NDF:20.5/23

All: -259.888+/-273.083 $\chi^2$/NDF: 51.7/42


asym_at2_dd_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
105
110
115
120
125
130
135
140
145
Right In: 1433.477+/-0.404 χ²/NDF: 1763491.8/15
Left Out: 932.365+/-0.373 χ²/NDF:1085964.5/4
Right Out: 1306.866+/-0.370 χ²/NDF: 2183906.3/18
Left In: 914.558+/-0.401 χ²/NDF:17260.7/2
Left: 924.104+/-0.273 χ²/NDF: 1104281.9/7
Right: 1364.618+/-0.273 χ²/NDF: 4000764.0/34
In: 1172.020+/-0.285 χ²/NDF:2611236.7/18
Out: 1121.107+/-0.263 χ²/NDF:3777608.6/23
All: 1144.528+/-0.193 χ²/NDF: 6406114.1/42




Right In: 1130.728+/-617.236 $\chi^2$/NDF: 15.0/15

Left Out: -955.114+/-920.993 $\chi^2$/NDF:13.4/4

Right Out: 89.225+/-603.072 $\chi^2$/NDF: 20.7/18

Left In: 314.257+/-1181.453 $\chi^2$/NDF:4.6/2

Left: -475.306+/-726.366 $\chi^2$/NDF: 18.7/7

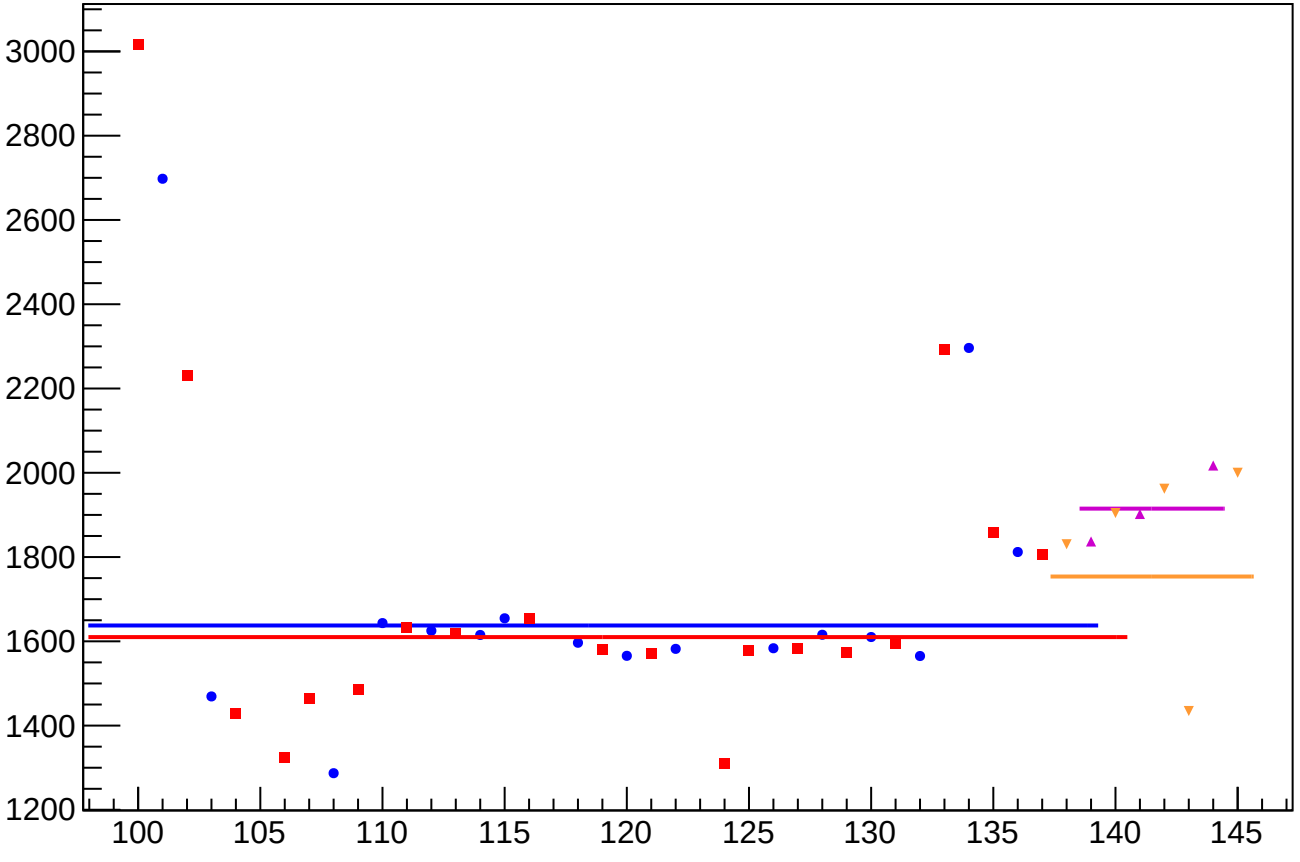
Right: 597.890+/-431.357 $\chi^2$/NDF: 37.1/34

In: 955.662+/-547.075 $\chi^2$/NDF:19.9/18

Out: -224.178+/-504.531 $\chi^2$/NDF:35.0/23

All: 318.088+/-370.887 $\chi^2$/NDF: 57.4/42

# eigen_dit_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1637.574+/-0.436 $\chi^2$/NDF: 361416.8/15

Left Out: 1753.786+/-0.651 $\chi^2$/NDF:128600.1/4

Right Out: 1610.043+/-0.426 $\chi^2$/NDF: 280812.7/18

Left In: 1914.919+/-0.835 $\chi^2$/NDF:7752.7/2

Left: 1814.693+/-0.514 $\chi^2$/NDF: 159492.9/7

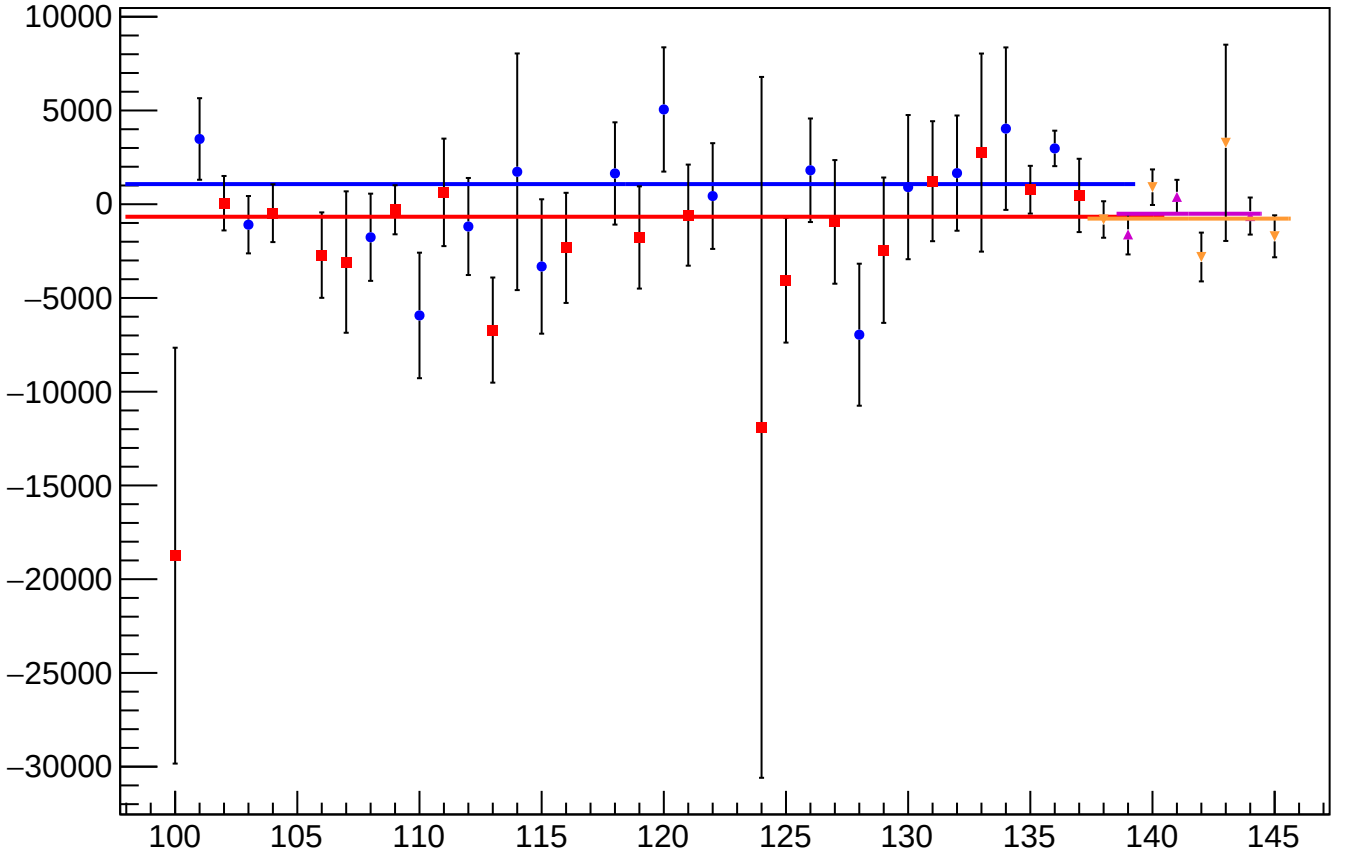
Right: 1623.489+/-0.305 $\chi^2$/NDF: 644265.1/34

In: 1697.042+/-0.387 $\chi^2$/NDF:455752.3/18

Out: 1653.180+/-0.357 $\chi^2$/NDF:443511.0/23

All: 1673.339+/-0.262 $\chi^2$/NDF: 906210.6/42

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: -767.666+/-527.669 $\chi^2$/NDF:6.9/4

Right Out: -667.789+/-523.481 $\chi^2$/NDF: 13.6/18

Left In: -507.325+/-567.232 $\chi^2$/NDF:2.1/2

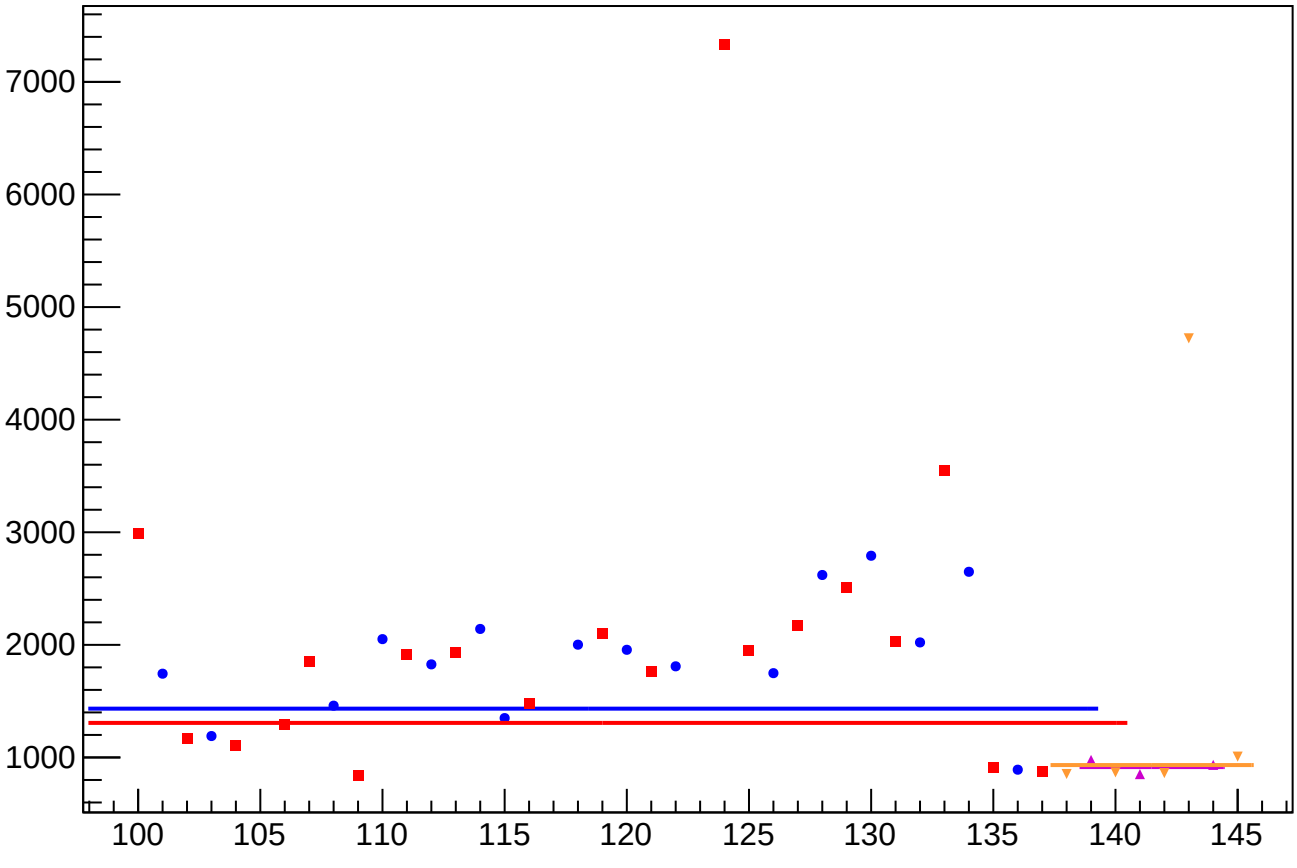
Left: -646.890+/-386.348 $\chi^2$/NDF: 9.1/7

Right: 126.509+/-386.053 $\chi^2$/NDF: 40.6/34

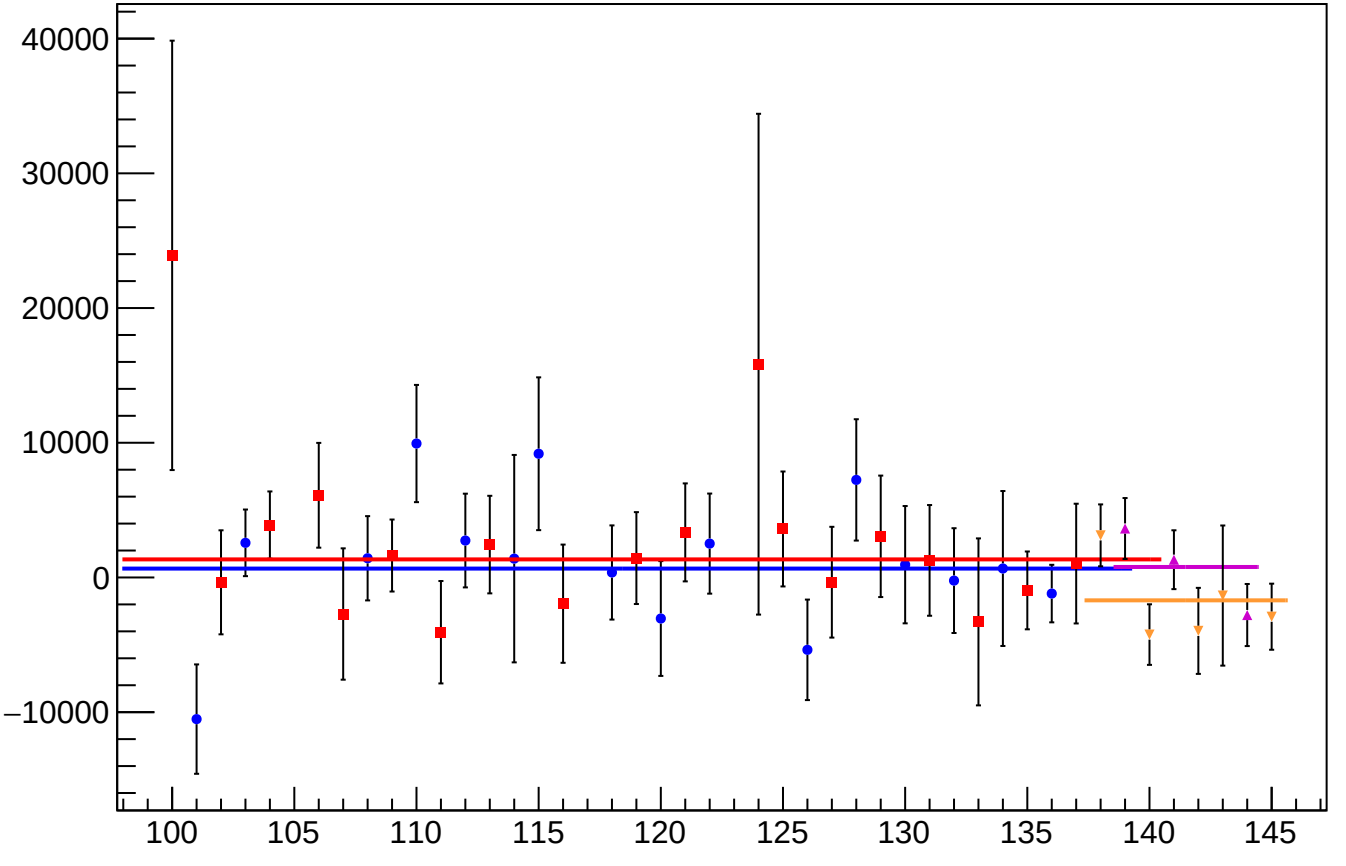
In: 277.050+/-402.633 $\chi^2$/NDF:27.9/18

Out: -717.330+/-371.629 $\chi^2$/NDF:20.5/23

All: -259.895+/-273.085 $\chi^2$/NDF: 51.7/42


asym_at2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
105
110
115
120
125
130
135
140
145
Right In: 1433.492+/-0.404 χ²/NDF: 1763397.4/15
Left Out: 932.377+/-0.373 χ²/NDF:1085951.9/4
Right Out: 1306.880+/-0.370 χ²/NDF: 2183835.0/18
Left In: 914.567+/-0.401 χ²/NDF:17264.0/2
Left: 924.115+/-0.273 χ²/NDF: 1104272.9/7
Right: 1364.632+/-0.273 χ²/NDF: 4000599.5/34
In: 1172.034+/-0.285 χ²/NDF:2611150.3/18
Out: 1121.121+/-0.263 χ²/NDF:3777517.0/23
All: 1144.542+/-0.193 χ²/NDF: 6405935.4/42

# asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 659.458+/-909.570 $\chi^2$/NDF: 22.0/15

Left Out: -1698.252+/-1205.159 $\chi^2$/NDF:6.4/4

Right Out: 1341.998+/-890.576 $\chi^2$/NDF: 10.8/18

Left In: 778.663+/-1298.082 $\chi^2$/NDF:4.1/2

Left: -551.614+/-883.202 $\chi^2$/NDF: 12.4/7

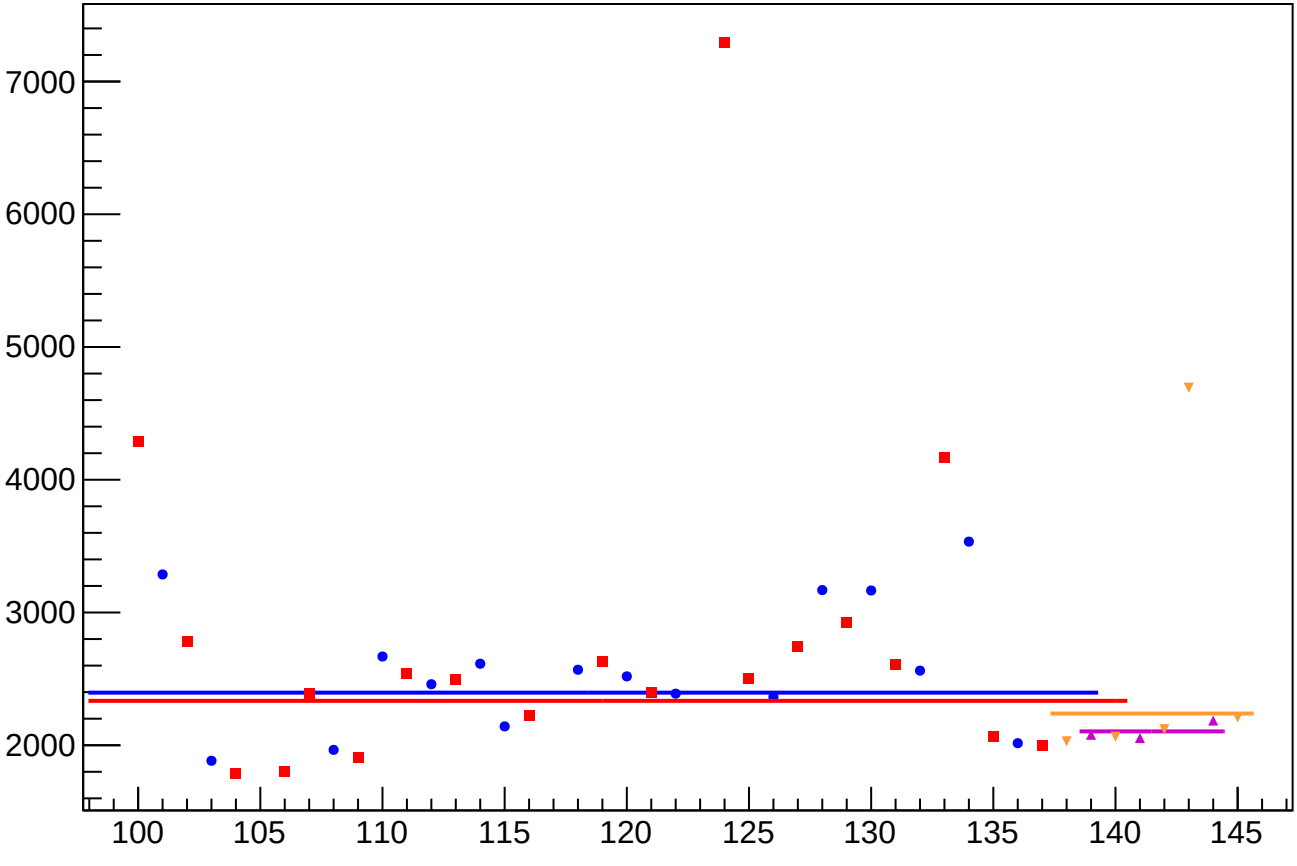
Right: 1007.929+/-636.341 $\chi^2$/NDF: 33.1/34

In: 698.713+/-744.903 $\chi^2$/NDF:26.0/18

Out: 268.178+/-716.235 $\chi^2$/NDF:21.4/23

All: 475.002+/-516.292 $\chi^2$/NDF: 47.6/42

# asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 2396.276+/-0.643 $\chi^2$/NDF: 507897.2/15

Left Out: 2238.980+/-0.852 $\chi^2$/NDF:477051.5/4

Right Out: 2334.592+/-0.630 $\chi^2$/NDF: 681568.6/18

Left In: 2104.475+/-0.918 $\chi^2$/NDF:3814.6/2

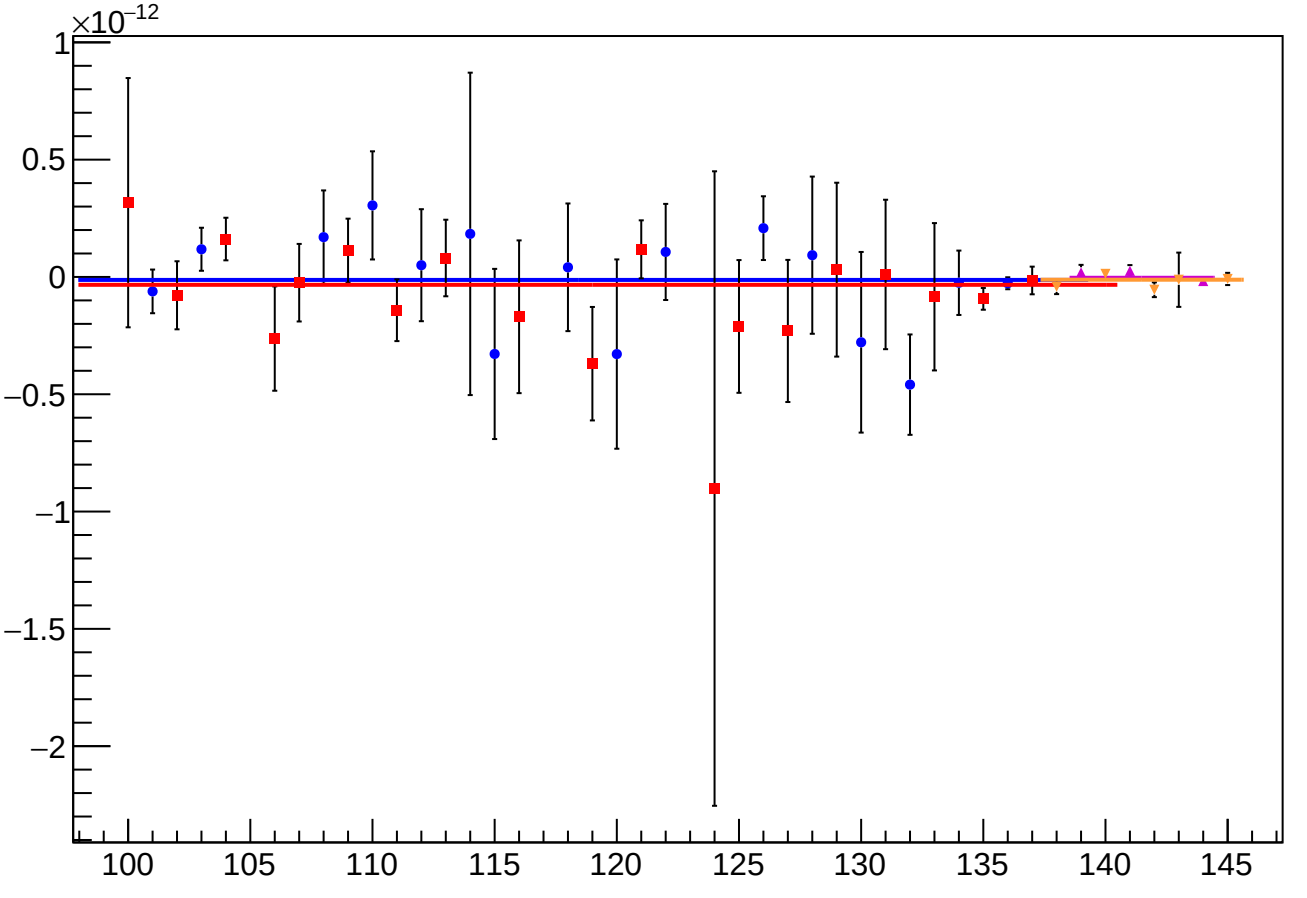
Left: 2176.714+/-0.625 $\chi^2$/NDF: 492398.9/7

Right: 2364.783+/-0.450 $\chi^2$/NDF: 1194162.0/34

In: 2300.185+/-0.527 $\chi^2$/NDF:579495.6/18

Out: 2300.822+/-0.506 $\chi^2$/NDF:1166762.4/23

All: 2300.516+/-0.365 $\chi^2$/NDF: 1746258.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.0/2

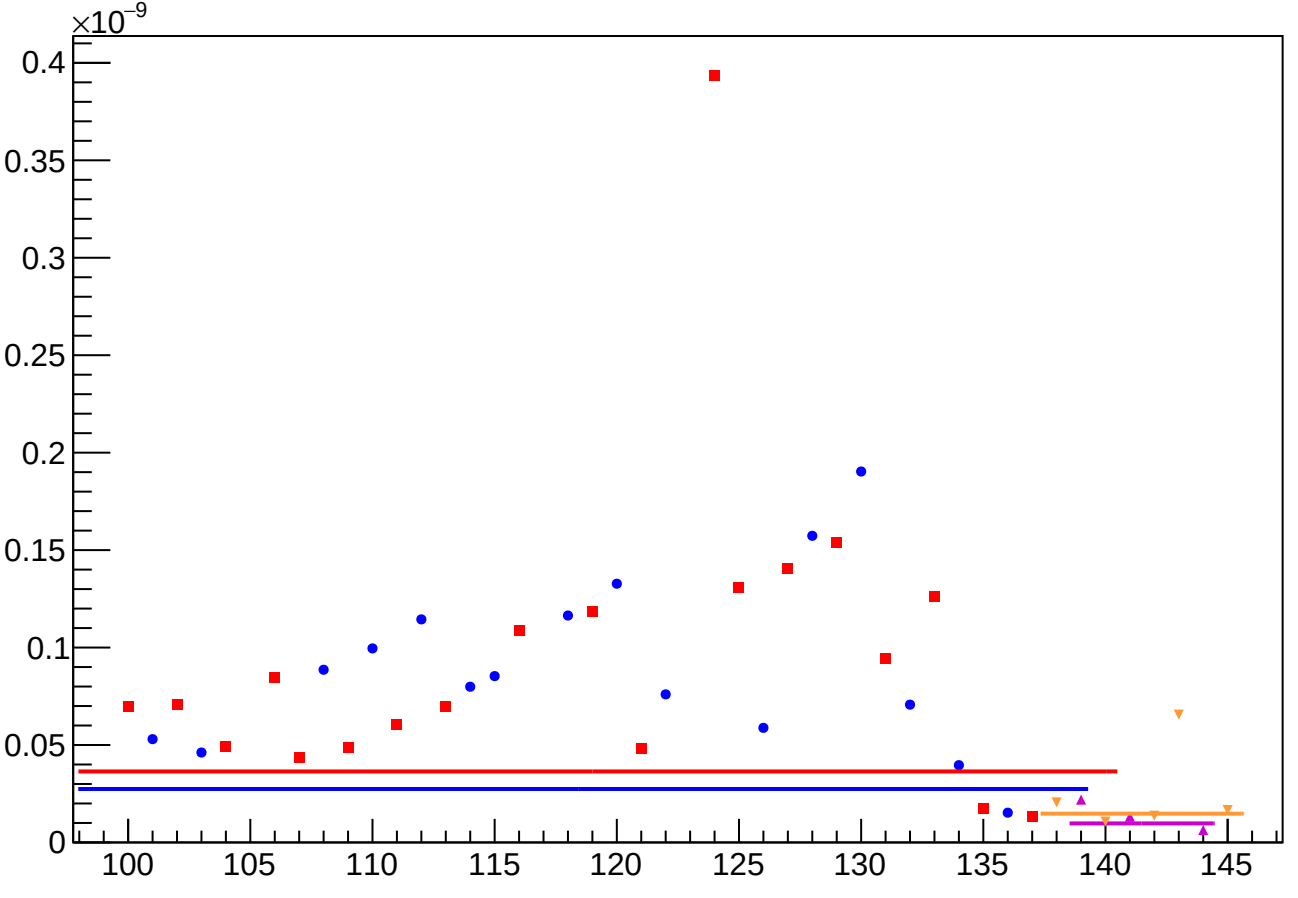
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:18.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 38.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2728016.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:560116.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2442395.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:455336.5/2

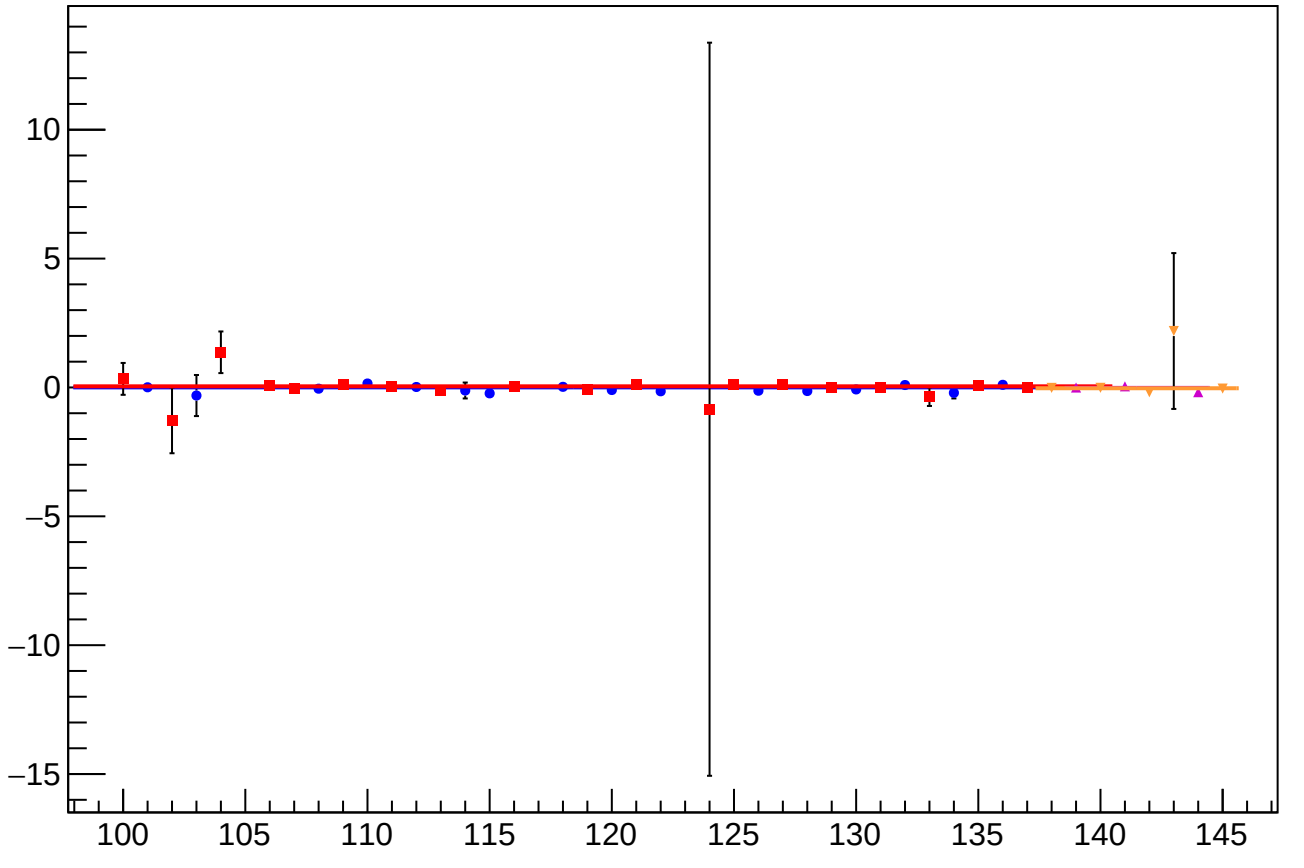
Left: 0.000+/-0.000 $\chi^2$/NDF: 1192982.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 5297550.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:4192381.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4000813.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8410474.3/42




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: -0.031+/-0.035 $\chi^2$/NDF:1.8/4

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.017+/-0.041 $\chi^2$/NDF:2.7/2

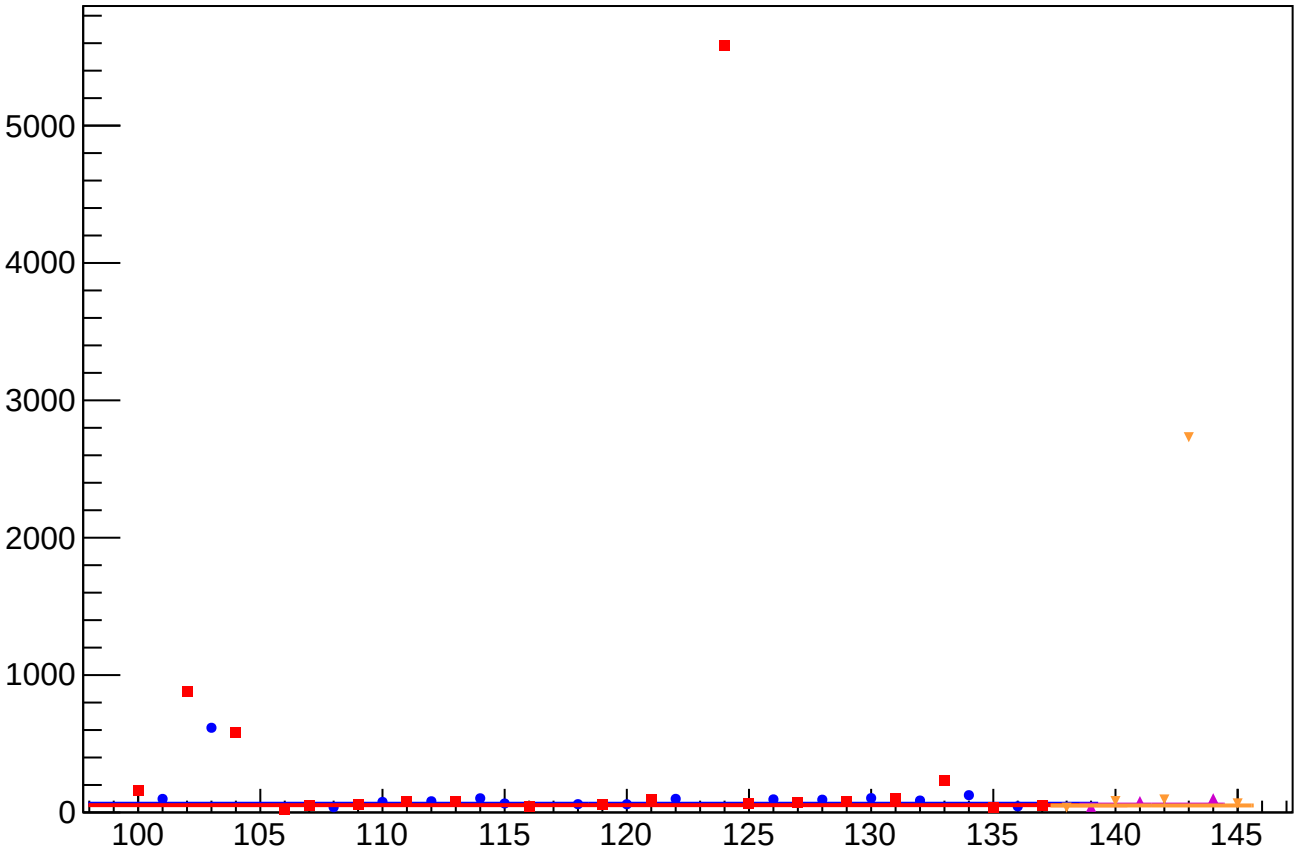
Left: -0.025+/-0.026 $\chi^2$/NDF: 4.6/7

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.003+/-0.023 $\chi^2$/NDF:16.2/18

Out: 0.018+/-0.020 $\chi^2$/NDF:17.6/23

All: 0.009+/-0.015 $\chi^2$/NDF: 34.2/42




Right In: 63.454+/-0.019 $\chi^2$/NDF: 2445255.1/15

Left Out: 50.895+/-0.025 $\chi^2$/NDF:2313079.2/4

Right Out: 53.206+/-0.018 $\chi^2$/NDF: 3945779.6/18

Left In: 57.097+/-0.029 $\chi^2$/NDF:723109.4/2

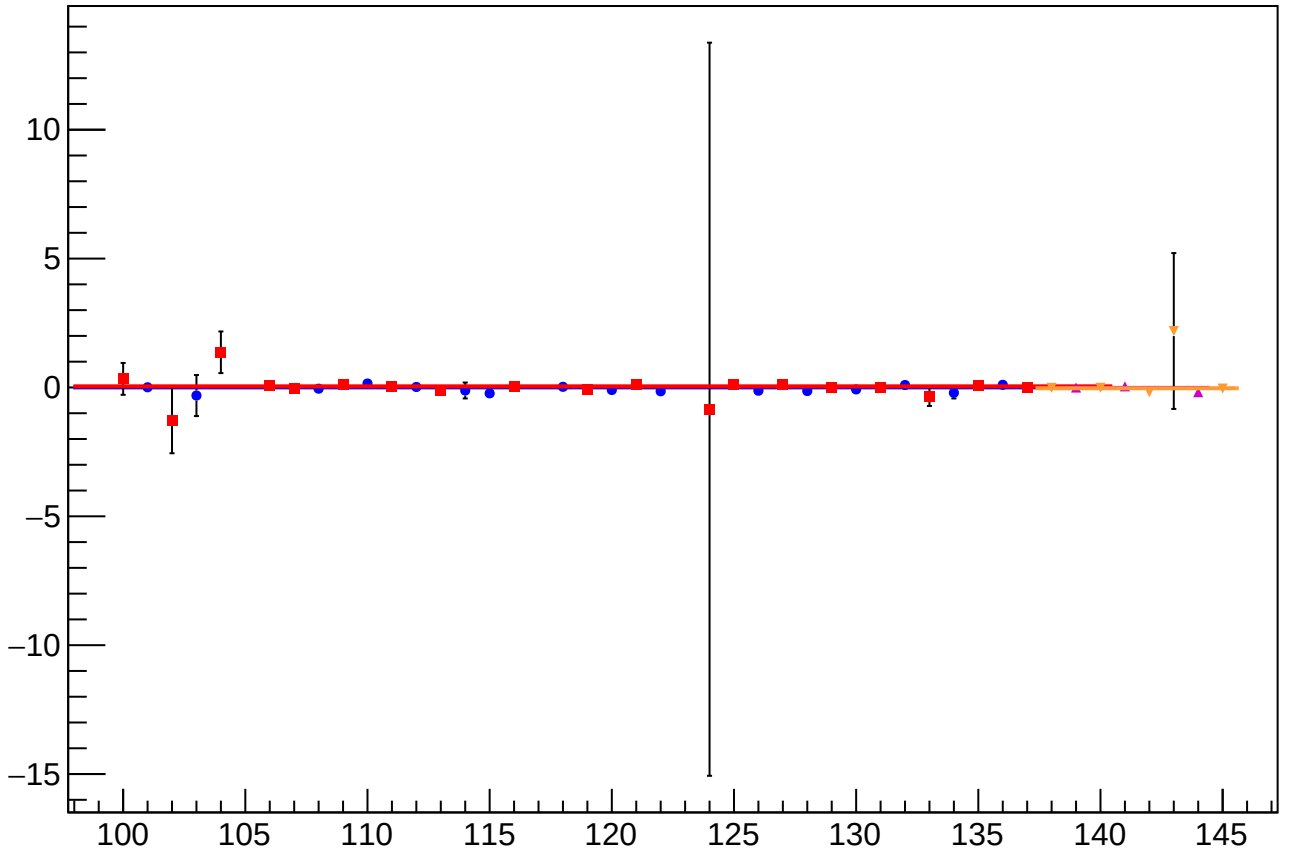
Left: 53.526+/-0.019 $\chi^2$/NDF: 3063063.1/7

Right: 57.863+/-0.013 $\chi^2$/NDF: 6545762.5/34

In: 61.483+/-0.016 $\chi^2$/NDF:3202206.9/18

Out: 52.428+/-0.014 $\chi^2$/NDF:6264695.3/23

All: 56.454+/-0.011 $\chi^2$/NDF: 9645149.0/42




Right In: 0.003+/-0.027 $\chi^2$/NDF: 13.3/15

Left Out: -0.031+/-0.035 $\chi^2$/NDF:1.8/4

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.017+/-0.041 $\chi^2$/NDF:2.7/2

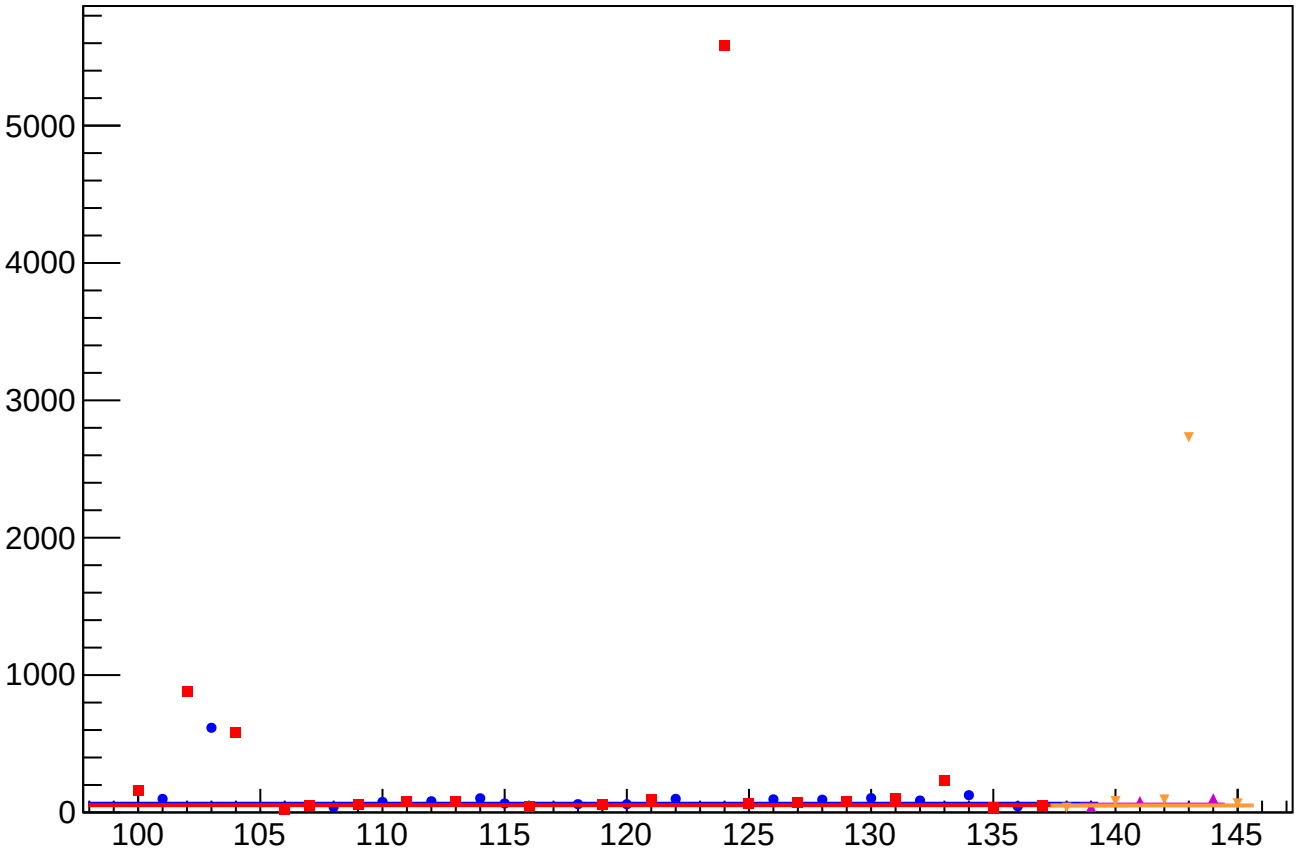
Left: -0.025+/-0.026 $\chi^2$/NDF: 4.6/7

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.003+/-0.023 $\chi^2$/NDF:16.2/18

Out: 0.018+/-0.020 $\chi^2$/NDF:17.6/23

All: 0.009+/-0.015 $\chi^2$/NDF: 34.2/42




Right In: 63.454+/-0.019 $\chi^2$/NDF: 2445255.1/15

Left Out: 50.895+/-0.025 $\chi^2$/NDF:2313079.2/4

Right Out: 53.206+/-0.018 $\chi^2$/NDF: 3945779.6/18

Left In: 57.097+/-0.029 $\chi^2$/NDF:723109.4/2

Left: 53.526+/-0.019 $\chi^2$/NDF: 3063063.1/7

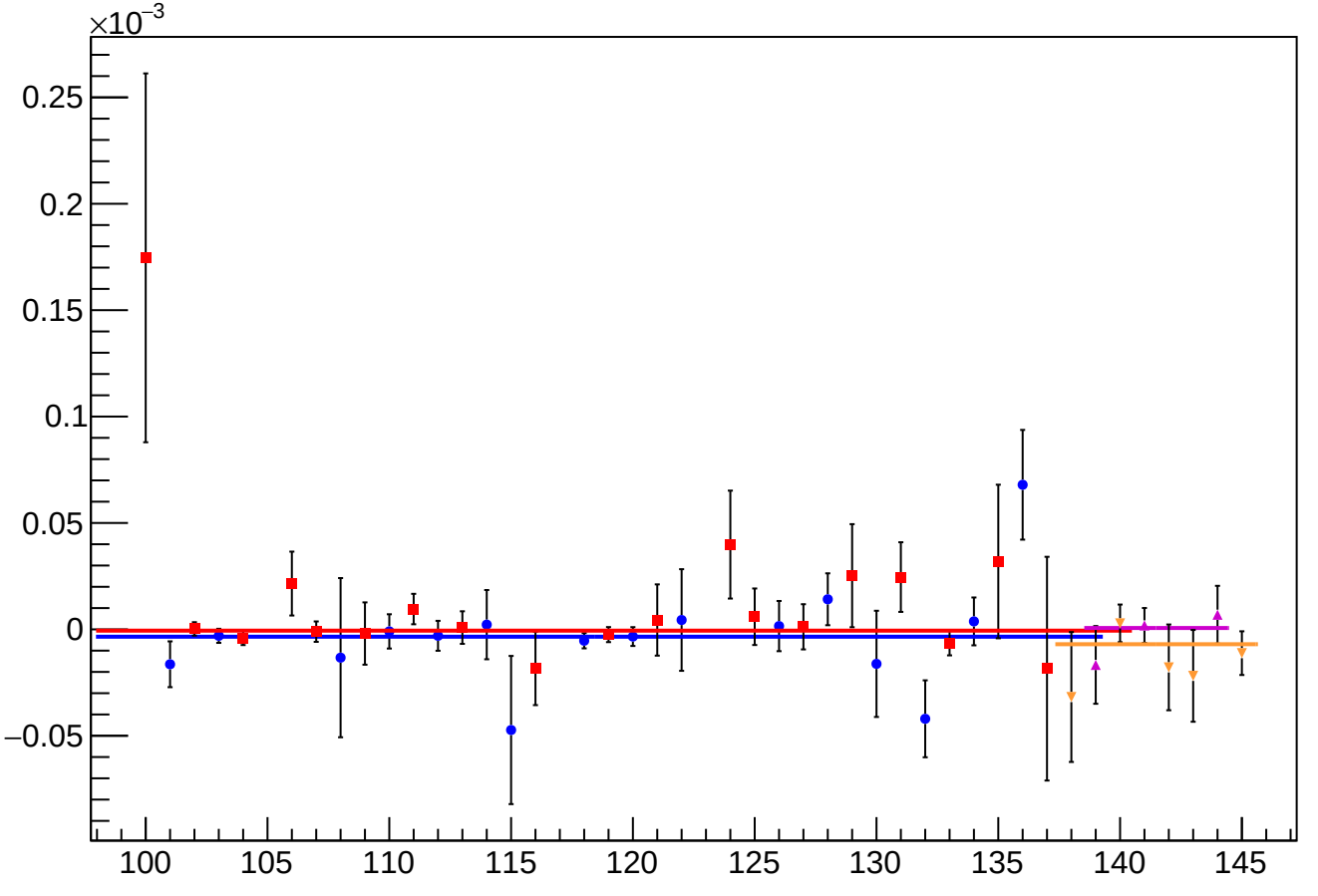
Right: 57.863+/-0.013 $\chi^2$/NDF: 6545762.5/34

In: 61.483+/-0.016 $\chi^2$/NDF:3202206.9/18

Out: 52.428+/-0.014 $\chi^2$/NDF:6264695.3/23

All: 56.454+/-0.011 $\chi^2$/NDF: 9645149.0/42

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.8/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.1/2

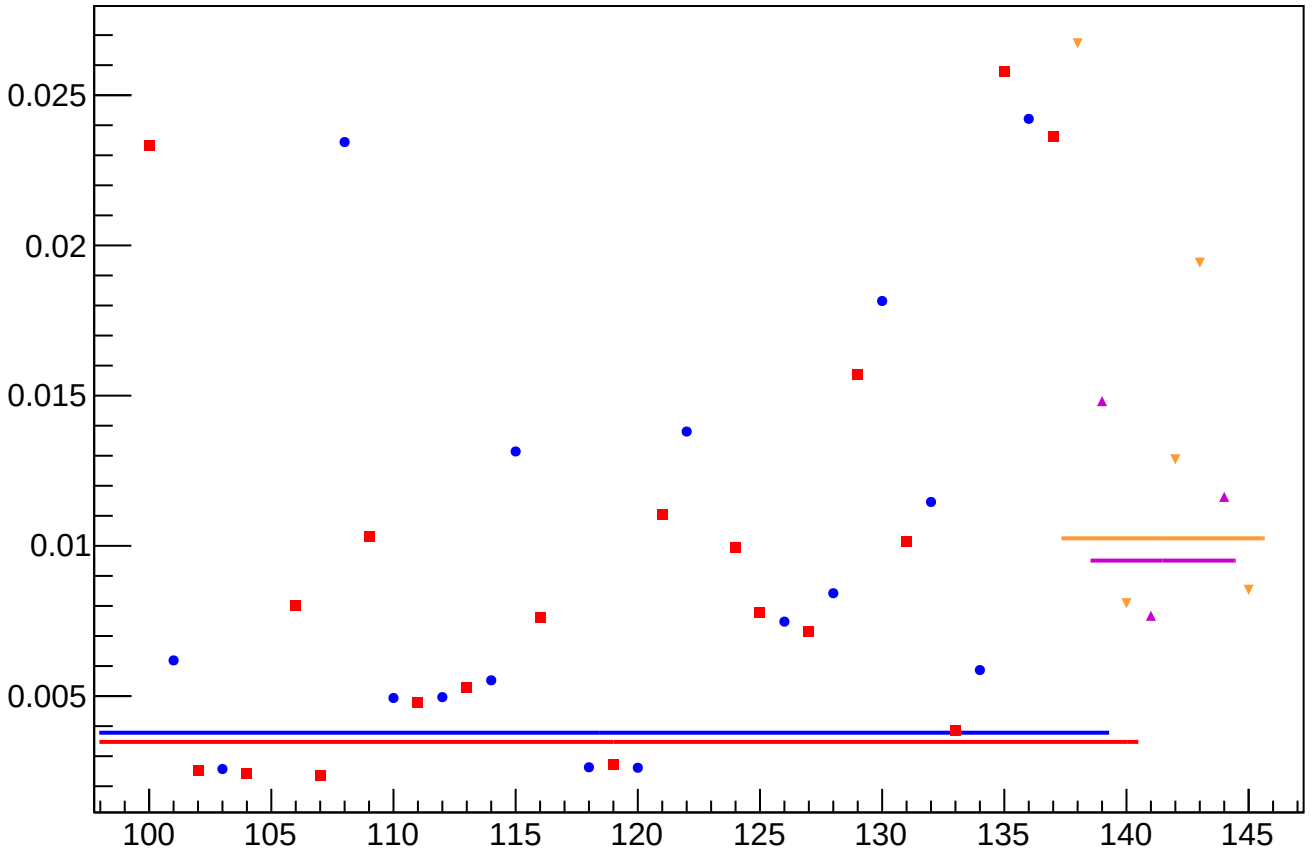
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 44.3/42




Right In: 0.004+/-0.000 $\chi^2$/NDF: 4719536.5/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:1154074.5/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 4495340.7/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:318452.7/2

Left: 0.010+/-0.000 $\chi^2$/NDF: 1486534.6/7

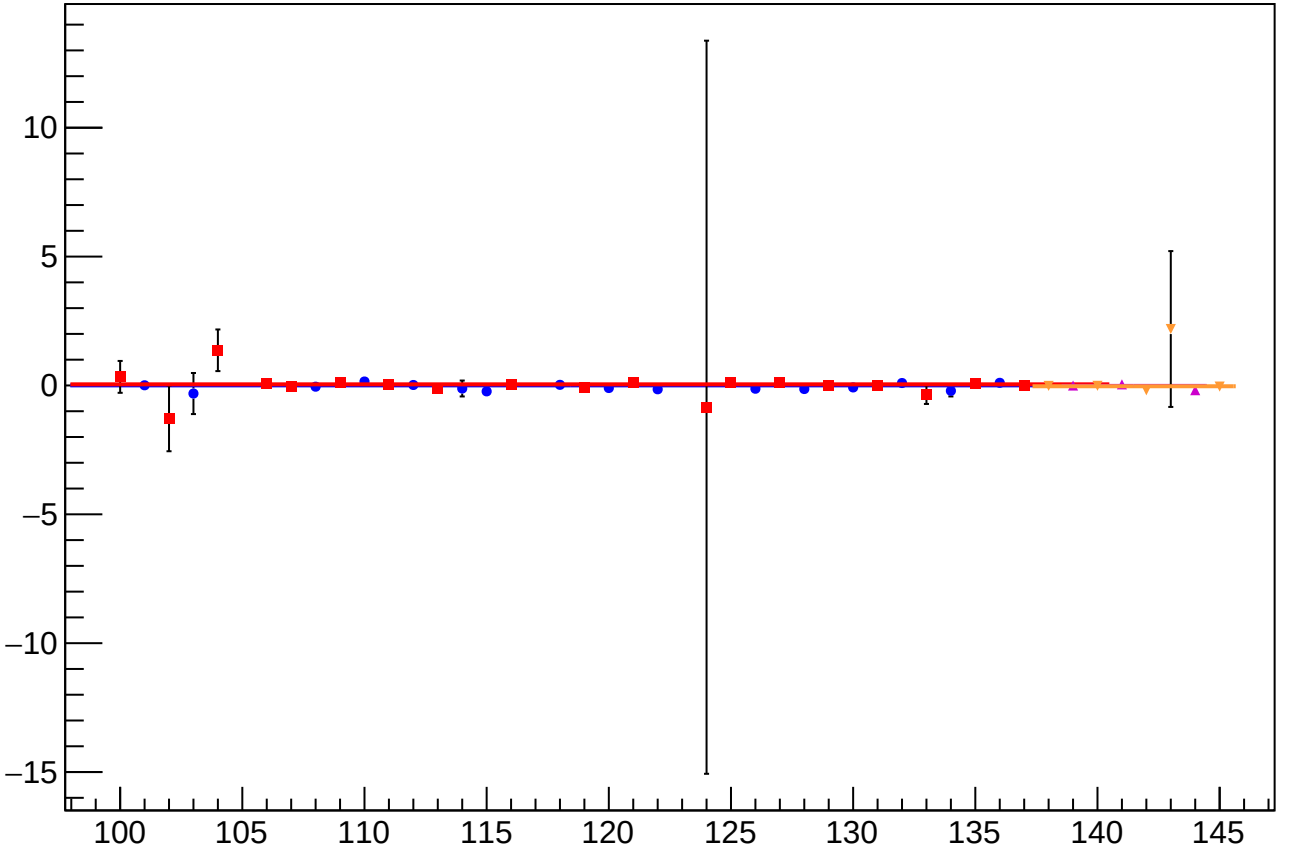
Right: 0.004+/-0.000 $\chi^2$/NDF: 9247440.2/34

In: 0.004+/-0.000 $\chi^2$/NDF:6460418.5/18

Out: 0.004+/-0.000 $\chi^2$/NDF:8056057.1/23

All: 0.004+/-0.000 $\chi^2$/NDF: 14549221.6/42

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: -0.031+/-0.035 $\chi^2$/NDF:1.8/4

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.017+/-0.041 $\chi^2$/NDF:2.7/2

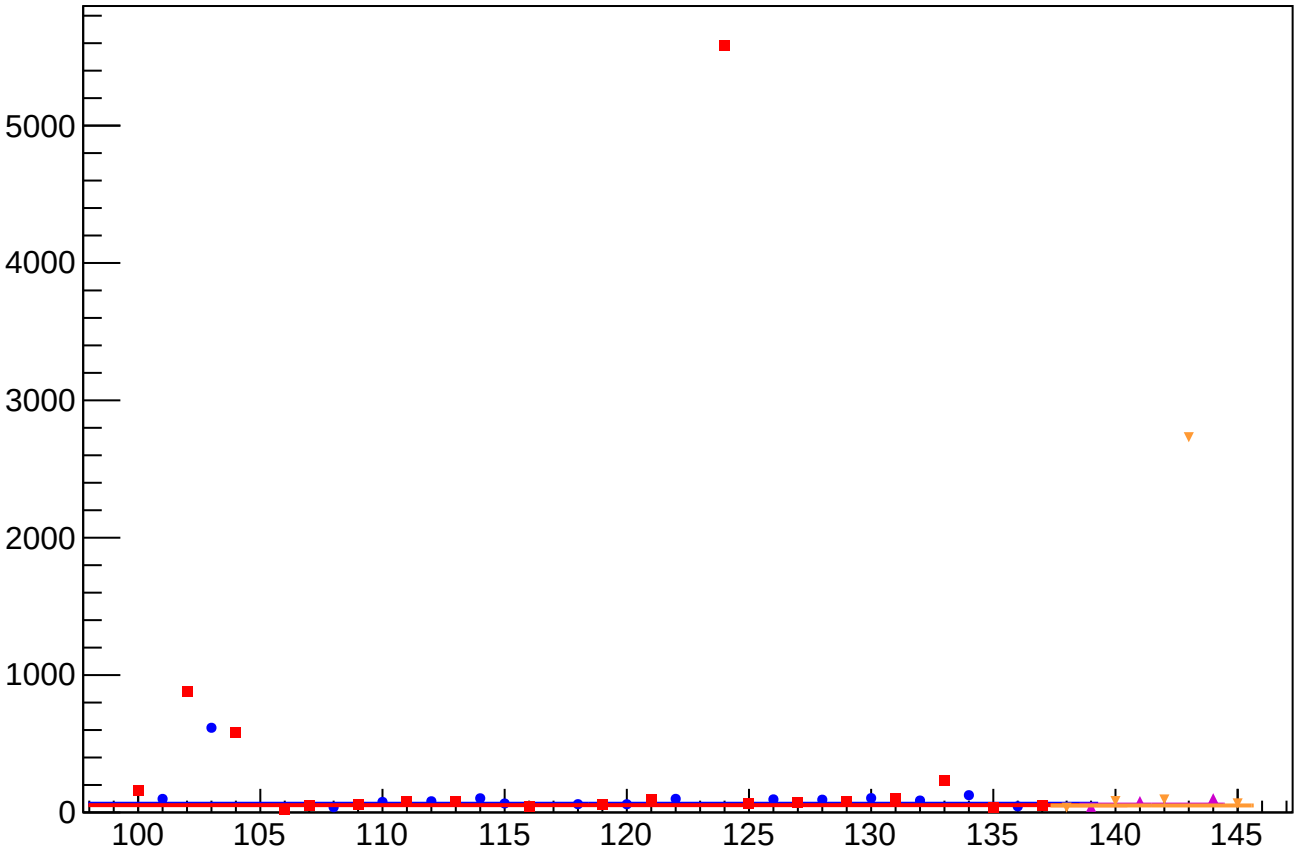
Left: -0.025+/-0.026 $\chi^2$/NDF: 4.6/7

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.003+/-0.023 $\chi^2$/NDF:16.2/18

Out: 0.018+/-0.020 $\chi^2$/NDF:17.6/23

All: 0.009+/-0.015 $\chi^2$/NDF: 34.2/42




Right In: 63.463+/-0.019 $\chi^2$/NDF: 2444357.3/15

Left Out: 50.893+/-0.025 $\chi^2$/NDF:2312988.4/4

Right Out: 53.201+/-0.018 $\chi^2$/NDF: 3946328.9/18

Left In: 57.109+/-0.029 $\chi^2$/NDF:722788.3/2

Left: 53.530+/-0.019 $\chi^2$/NDF: 3062770.1/7

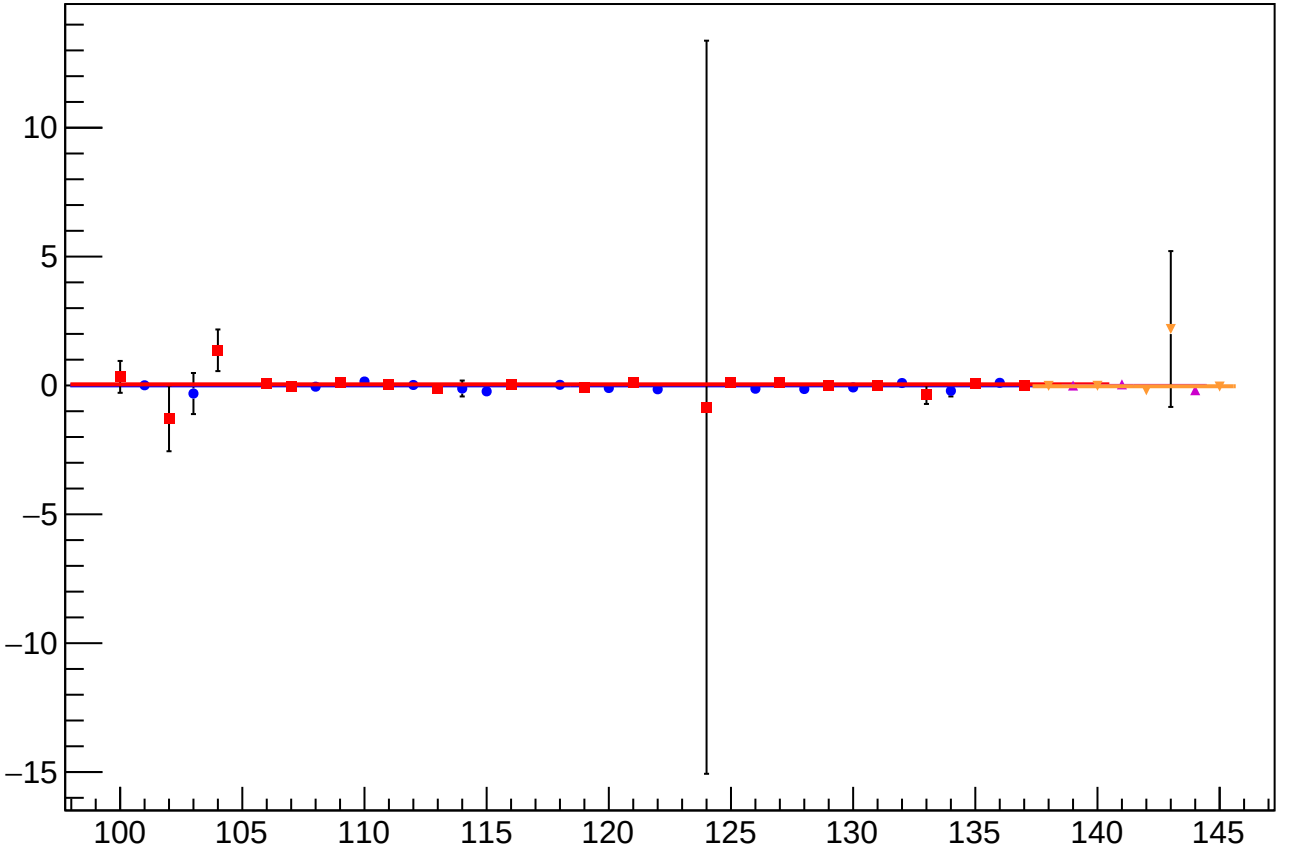
Right: 57.864+/-0.013 $\chi^2$/NDF: 6545828.7/34

In: 61.493+/-0.016 $\chi^2$/NDF:3200940.6/18

Out: 52.424+/-0.014 $\chi^2$/NDF:6265137.3/23

All: 56.456+/-0.011 $\chi^2$/NDF: 9644864.3/42

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: -0.031+/-0.035 $\chi^2$/NDF:1.8/4

Right Out: 0.044+/-0.025 $\chi^2$/NDF: 12.7/18

Left In: -0.017+/-0.041 $\chi^2$/NDF:2.7/2

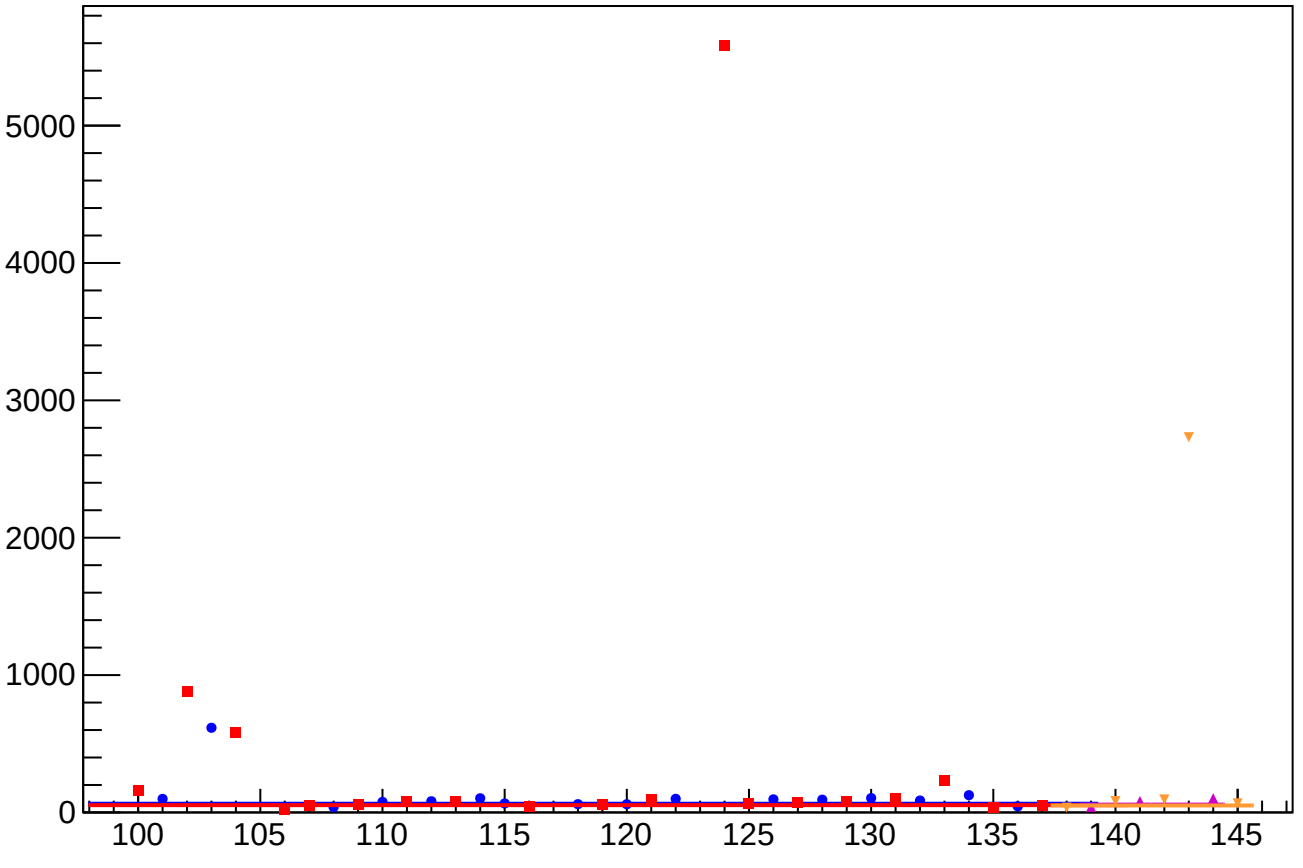
Left: -0.025+/-0.026 $\chi^2$/NDF: 4.6/7

Right: 0.025+/-0.018 $\chi^2$/NDF: 27.2/34

In: -0.003+/-0.023 $\chi^2$/NDF:16.2/18

Out: 0.018+/-0.020 $\chi^2$/NDF:17.6/23

All: 0.009+/-0.015 $\chi^2$/NDF: 34.2/42




Right In: 63.463+/-0.019 $\chi^2$/NDF: 2444357.3/15

Left Out: 50.893+/-0.025 $\chi^2$/NDF:2312988.4/4

Right Out: 53.201+/-0.018 $\chi^2$/NDF: 3946328.9/18

Left In: 57.109+/-0.029 $\chi^2$/NDF:722788.3/2

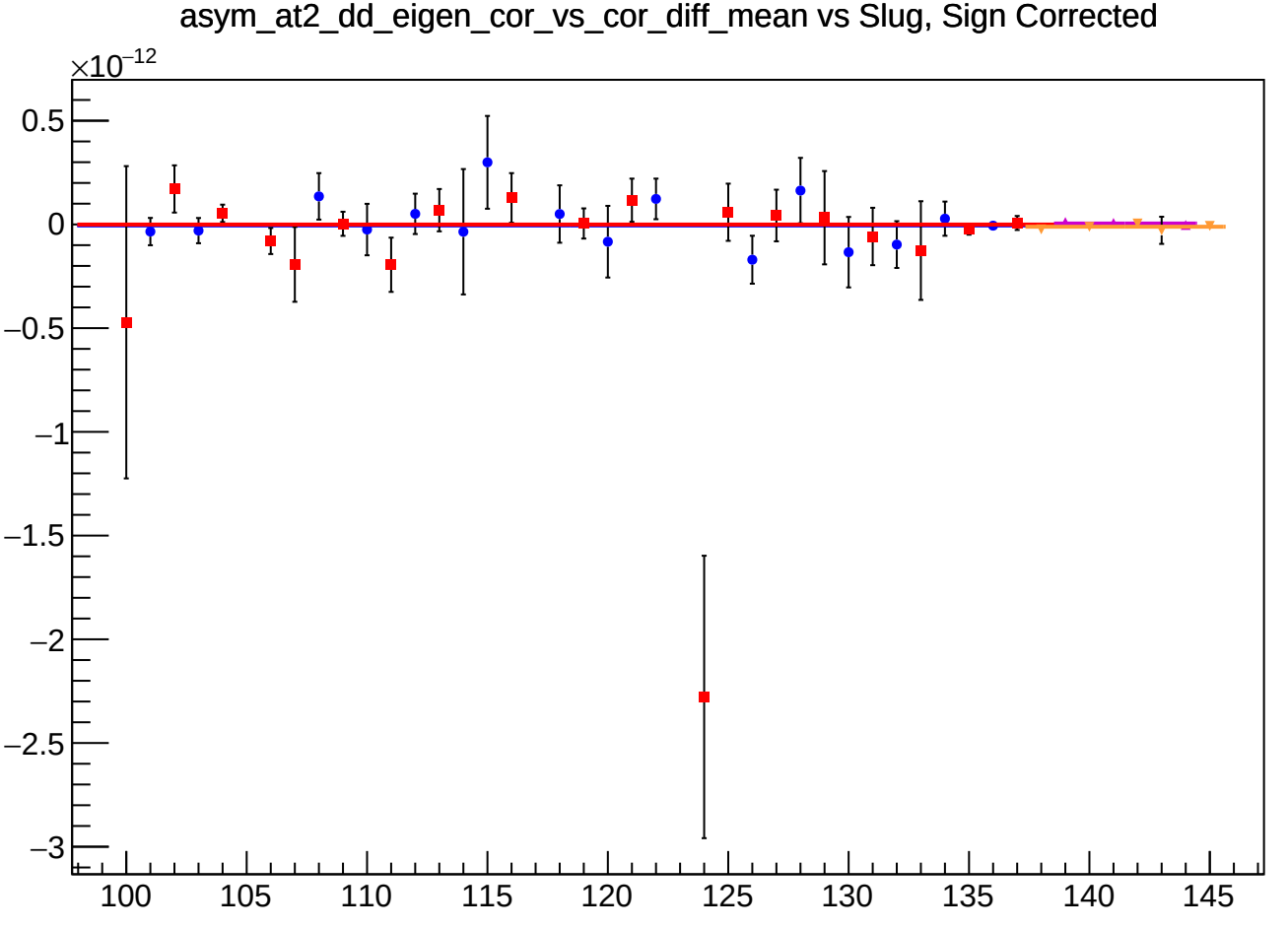
Left: 53.530+/-0.019 $\chi^2$/NDF: 3062770.1/7

Right: 57.864+/-0.013 $\chi^2$/NDF: 6545828.7/34

In: 61.493+/-0.016 $\chi^2$/NDF:3200940.6/18

Out: 52.424+/-0.014 $\chi^2$/NDF:6265137.3/23

All: 56.456+/-0.011 $\chi^2$/NDF: 9644864.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.4/2

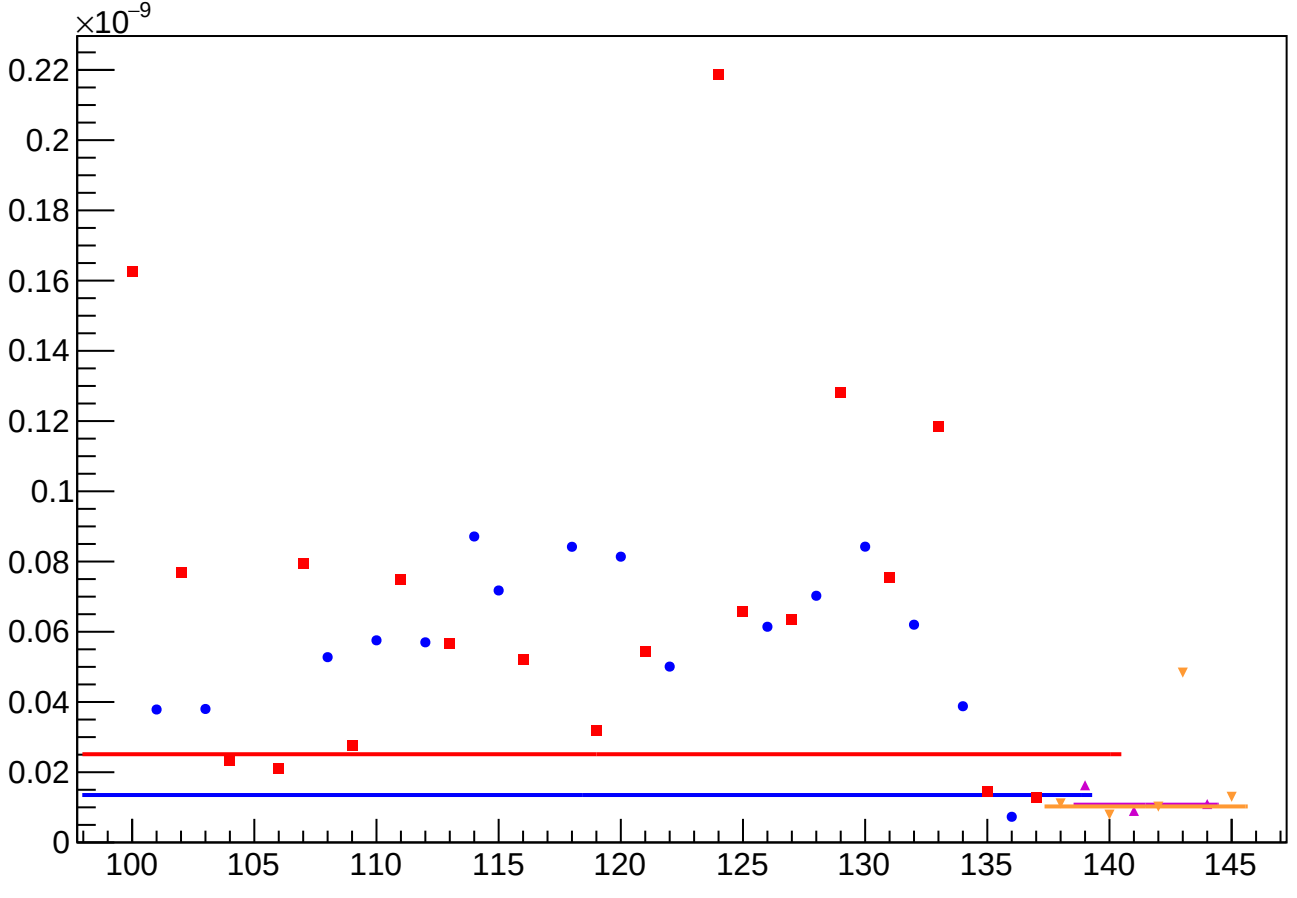
Left: -0.000+/-0.000 $\chi^2$/NDF: 3.9/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:11.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:27.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 39.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4993378.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:840124.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3578472.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:169738.7/2

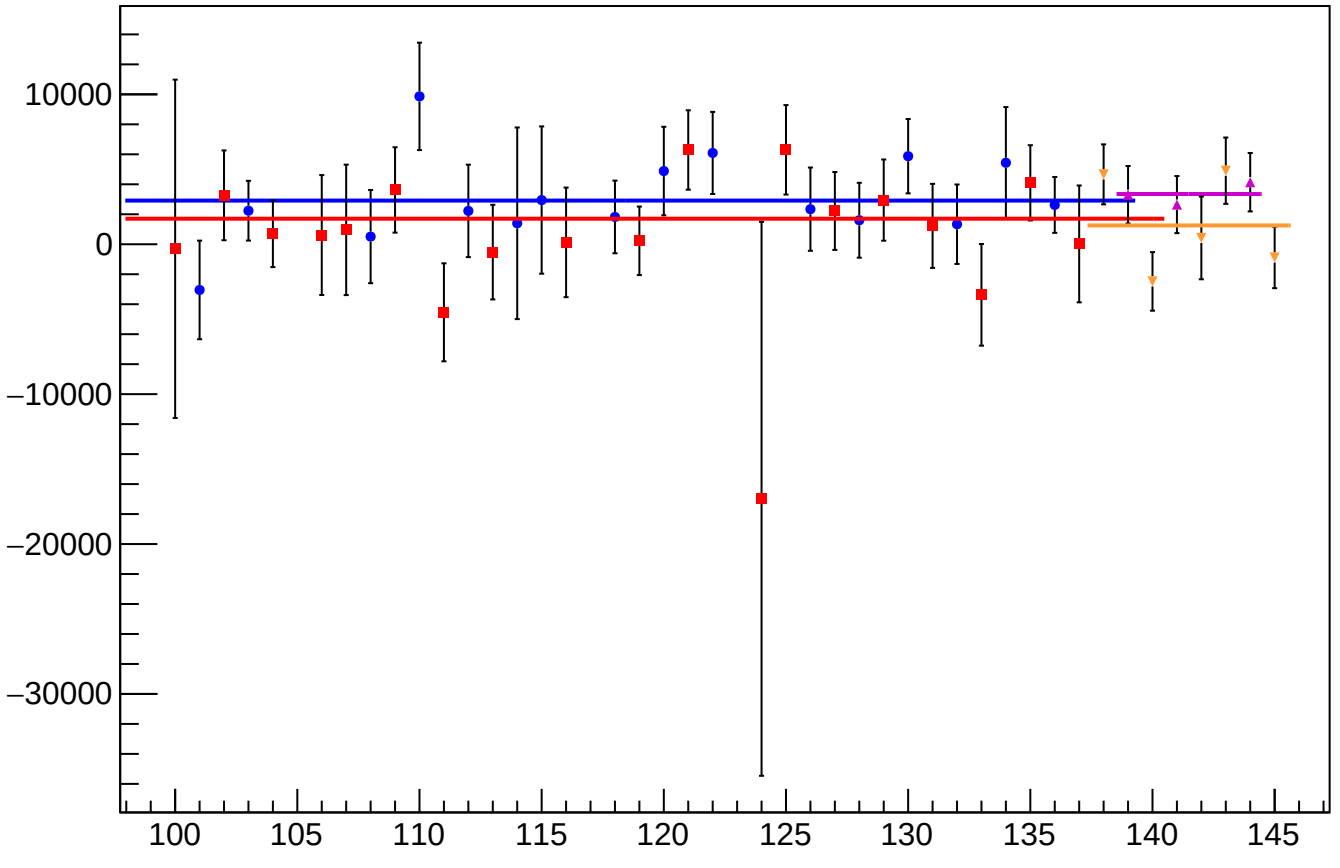
Left: 0.000+/-0.000 $\chi^2$/NDF: 1014098.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 9384983.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:5249244.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:6020226.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11297287.0/42




Right In: 2912.991+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 1254.460+/-959.680 $\chi^2$/NDF:10.5/4

Right Out: 1704.904+/-706.846 $\chi^2$/NDF: 15.8/18

Left In: 3351.402+/-1110.271 $\chi^2$/NDF:0.3/2

Left: 2151.179+/-726.046 $\chi^2$/NDF: 12.8/7

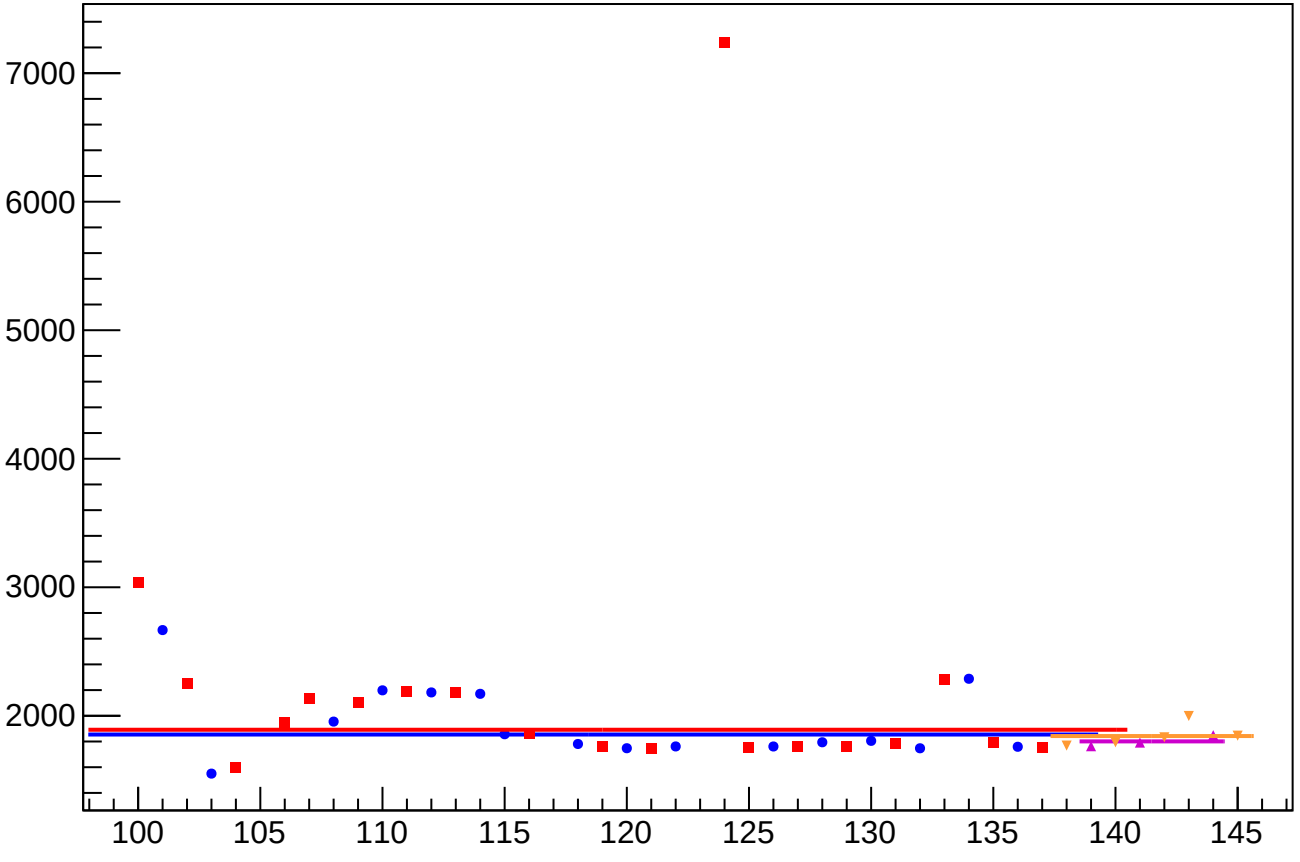
Right: 2319.102+/-495.597 $\chi^2$/NDF: 29.8/34

In: 3036.431+/-589.139 $\chi^2$/NDF:12.9/18

Out: 1546.483+/-569.132 $\chi^2$/NDF:26.4/23

All: 2265.729+/-409.327 $\chi^2$/NDF: 42.6/42

# reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.7/15

Left Out: 1842.484+/-0.679 $\chi^2$/NDF:13984.9/4

Right Out: 1891.469+/-0.499 $\chi^2$/NDF: 364050.6/18

Left In: 1800.864+/-0.785 $\chi^2$/NDF:2051.0/2

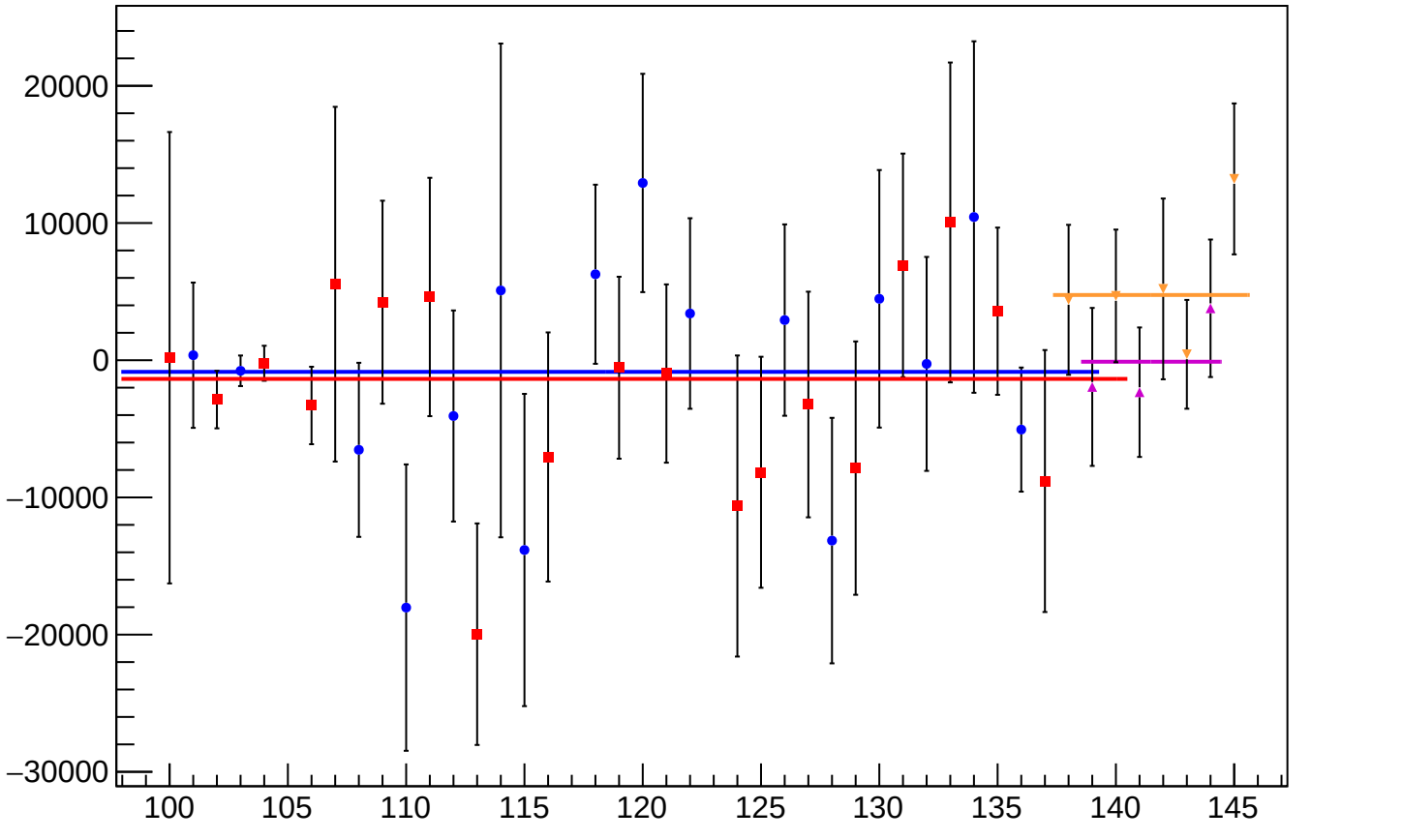
Left: 1824.686+/-0.513 $\chi^2$/NDF: 17644.6/7

Right: 1872.622+/-0.350 $\chi^2$/NDF: 630189.4/34

In: 1839.264+/-0.417 $\chi^2$/NDF:268703.8/18

Out: 1874.293+/-0.402 $\chi^2$/NDF:381419.1/23

All: 1857.410+/-0.289 $\chi^2$/NDF: 653785.5/42




Right In: -847.977+/-962.920 $\chi^2$/NDF: 13.9/15

Left Out: 4755.183+/-2259.047 $\chi^2$/NDF:3.6/4

Right Out: -1361.523+/-915.925 $\chi^2$/NDF: 14.0/18

Left In: -109.711+/-2950.100 $\chi^2$/NDF:0.9/2

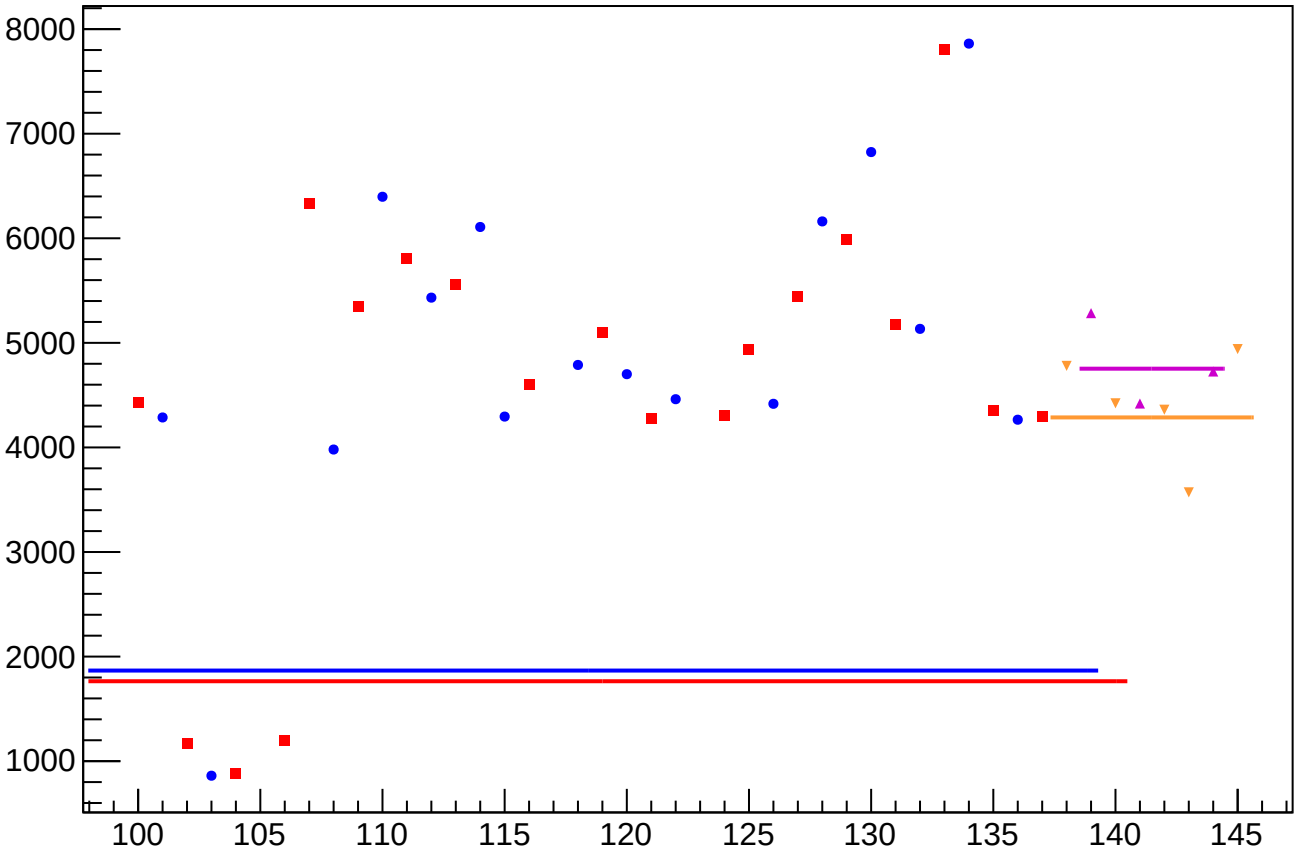
Left: 2956.957+/-1793.585 $\chi^2$/NDF: 6.2/7

Right: -1117.587+/-663.649 $\chi^2$/NDF: 28.0/34

In: -776.896+/-915.391 $\chi^2$/NDF:14.8/18

Out: -497.970+/-848.811 $\chi^2$/NDF:23.9/23

All: -626.921+/-622.408 $\chi^2$/NDF: 38.8/42




Right In: 1866.405+/-0.681 $\chi^2$/NDF: 6849638.3/15

Left Out: 4286.934+/-1.597 $\chi^2$/NDF:111599.2/4

Right Out: 1764.281+/-0.648 $\chi^2$/NDF: 6434807.7/18

Left In: 4753.019+/-2.086 $\chi^2$/NDF:27050.1/2

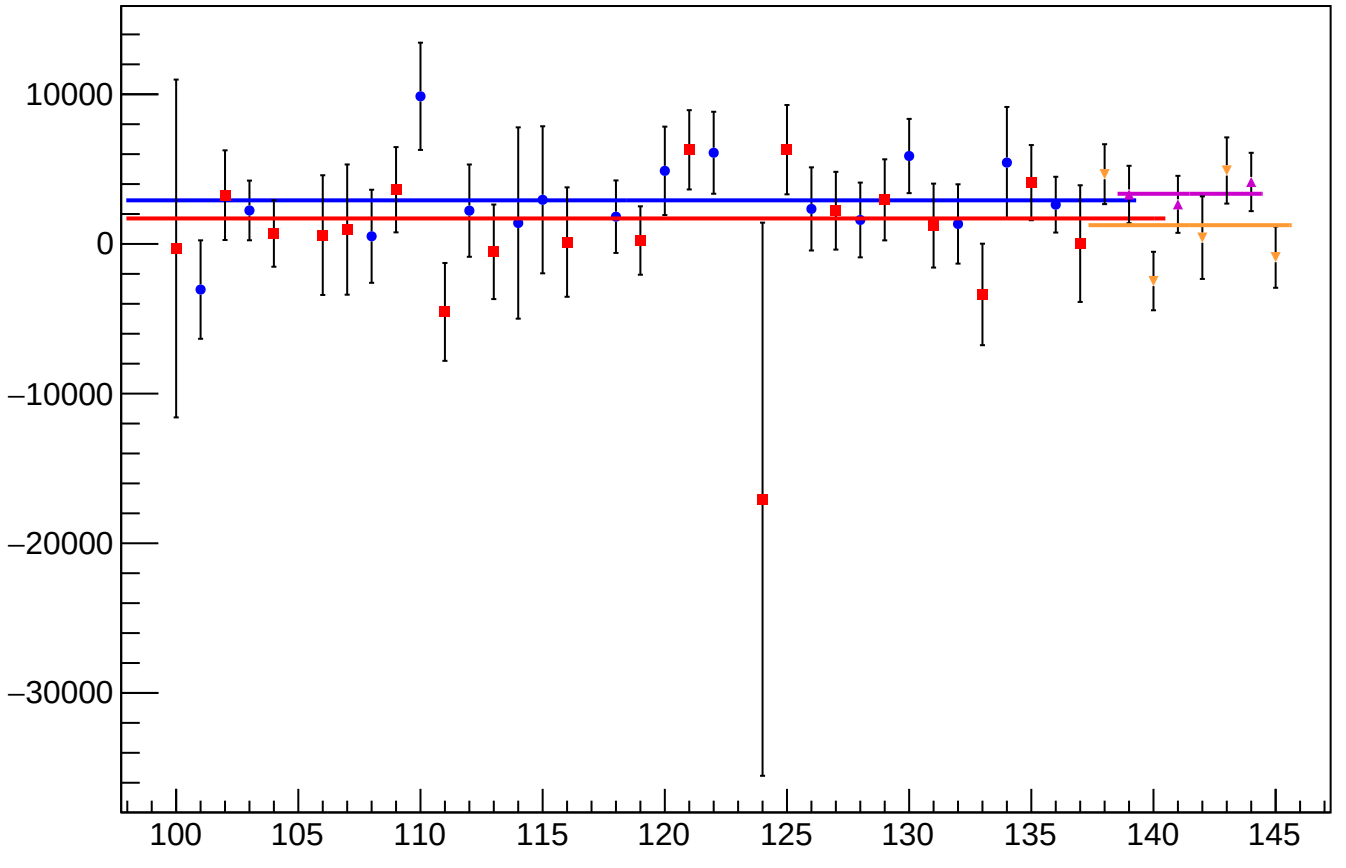
Left: 4459.214+/-1.268 $\chi^2$/NDF: 170118.1/7

Right: 1812.790+/-0.469 $\chi^2$/NDF: 13296256.2/34

In: 2144.331+/-0.647 $\chi^2$/NDF:8607171.9/18

Out: 2120.428+/-0.600 $\chi^2$/NDF:8688294.8/23

All: 2131.479+/-0.440 $\chi^2$/NDF: 17296199.9/4




Right In: 2913.091+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 1254.504+/-959.680 $\chi^2$/NDF:10.5/4

Right Out: 1703.523+/-706.847 $\chi^2$/NDF: 15.8/18

Left In: 3351.674+/-1110.271 $\chi^2$/NDF:0.3/2

Left: 2151.321+/-726.046 $\chi^2$/NDF: 12.8/7

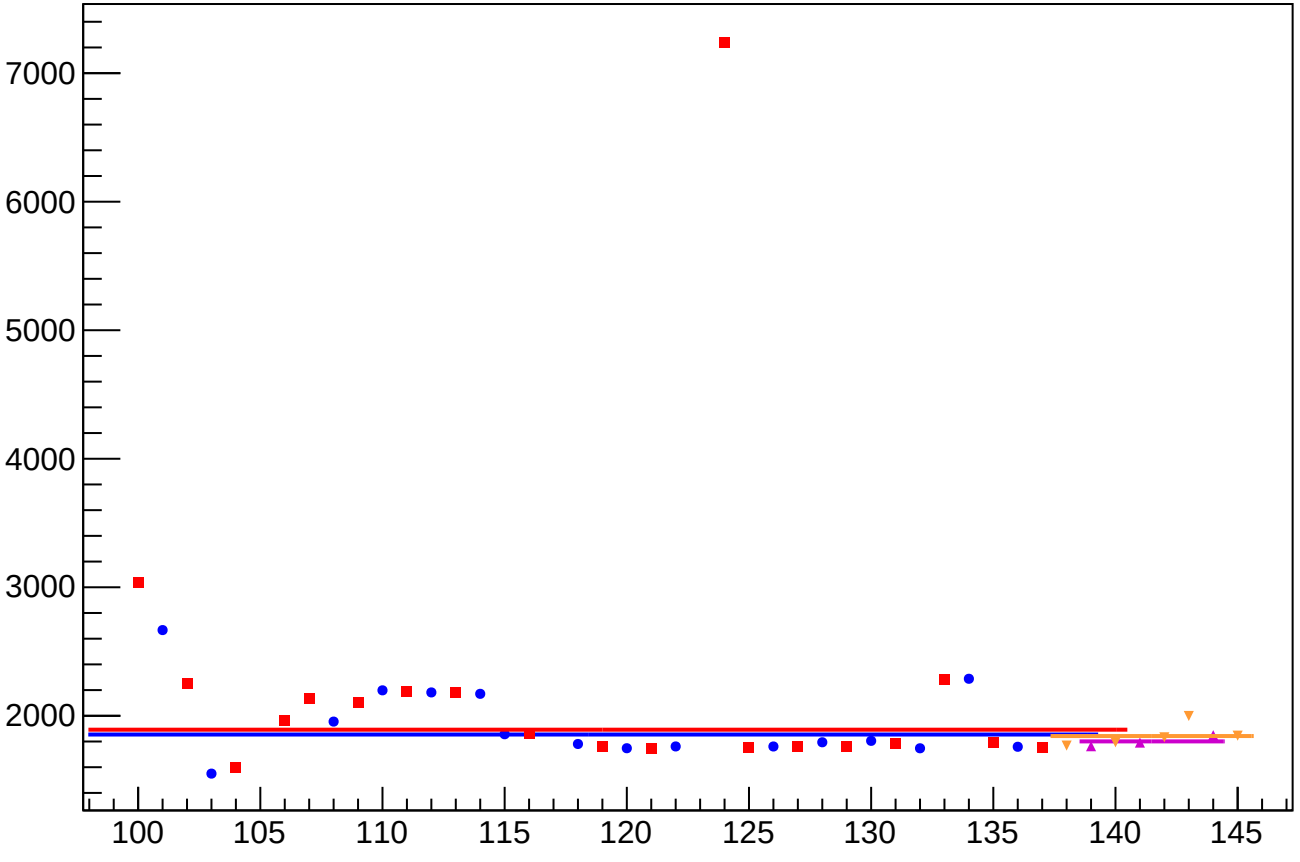
Right: 2318.475+/-495.597 $\chi^2$/NDF: 29.8/34

In: 3036.580+/-589.139 $\chi^2$/NDF:12.9/18

Out: 1545.603+/-569.132 $\chi^2$/NDF:26.4/23

All: 2265.346+/-409.327 $\chi^2$/NDF: 42.6/42

# cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.5/15

Left Out: 1842.484+/-0.679 $\chi^2$/NDF:13984.9/4

Right Out: 1891.927+/-0.499 $\chi^2$/NDF: 364292.2/18

Left In: 1800.864+/-0.785 $\chi^2$/NDF:2051.0/2

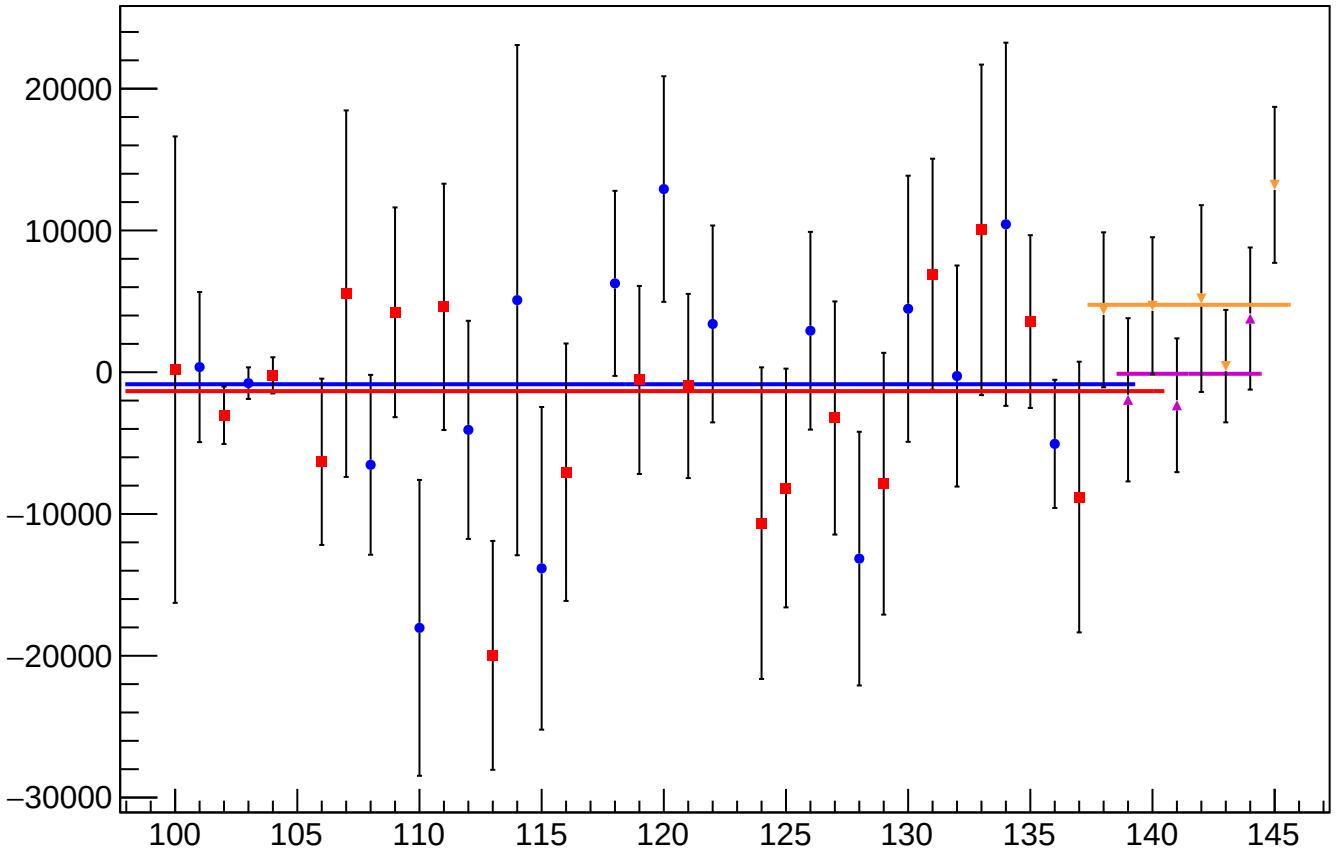
Left: 1824.686+/-0.513 $\chi^2$/NDF: 17644.6/7

Right: 1872.844+/-0.350 $\chi^2$/NDF: 630500.1/34

In: 1839.264+/-0.417 $\chi^2$/NDF:268703.6/18

Out: 1874.585+/-0.402 $\chi^2$/NDF:381723.7/23

All: 1857.559+/-0.289 $\chi^2$/NDF: 654150.9/42




Right In: -847.504+/-962.866 $\chi^2$/NDF: 13.9/15

Left Out: 4755.108+/-2259.038 $\chi^2$/NDF:3.6/4

Right Out: -1331.371+/-948.163 $\chi^2$/NDF: 14.4/18

Left In: -109.483+/-2950.096 $\chi^2$/NDF:0.9/2

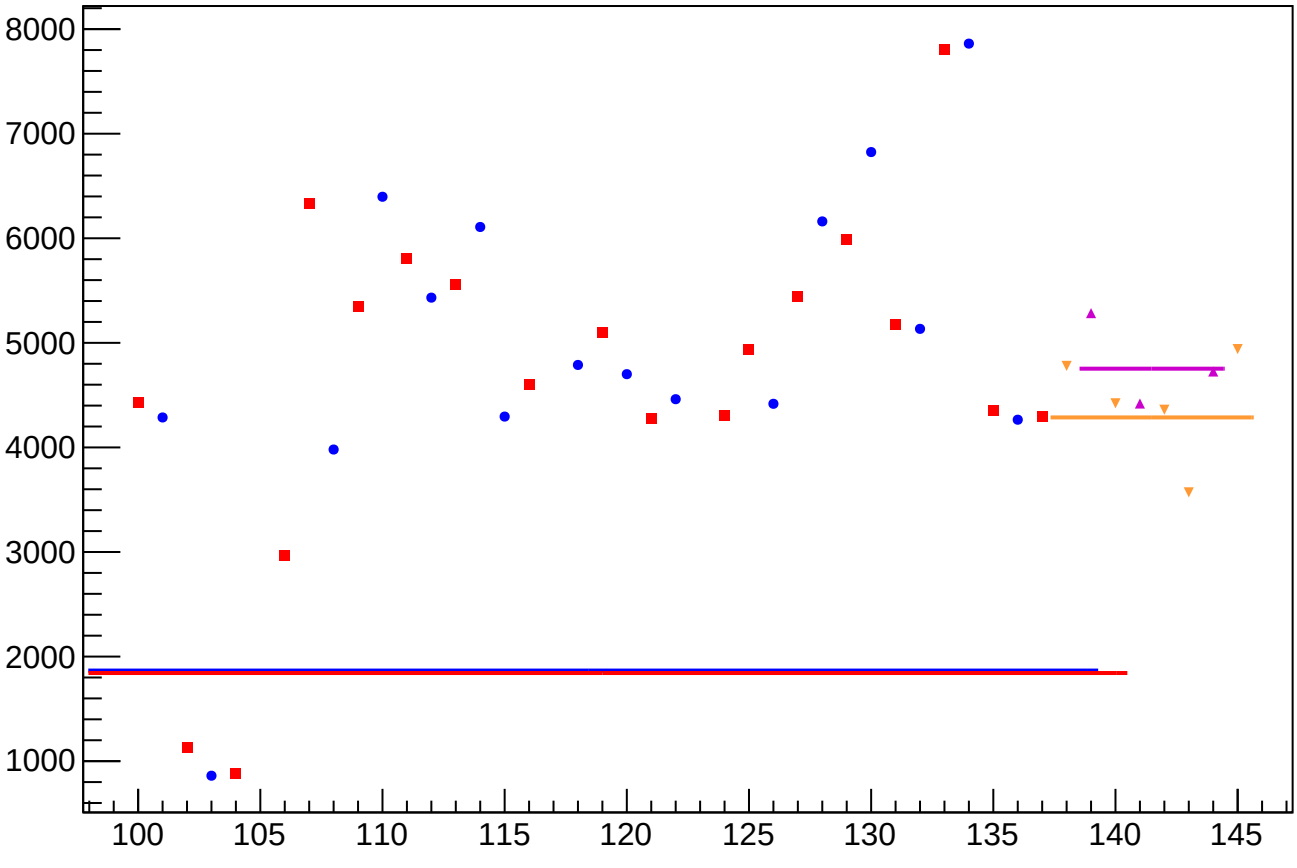
Left: 2957.001+/-1793.580 $\chi^2$/NDF: 6.2/7

Right: -1093.160+/-675.591 $\chi^2$/NDF: 28.4/34

In: -776.453+/-915.345 $\chi^2$/NDF:14.8/18

Out: -419.745+/-874.277 $\chi^2$/NDF:24.2/23

All: -589.917+/-632.227 $\chi^2$/NDF: 39.1/42




Right In: 1866.251+/-0.681 $\chi^2$/NDF: 6850061.4/15

Left Out: 4286.914+/-1.597 $\chi^2$/NDF:111604.7/4

Right Out: 1842.882+/-0.670 $\chi^2$/NDF: 6458456.4/18

Left In: 4753.011+/-2.086 $\chi^2$/NDF:27050.8/2

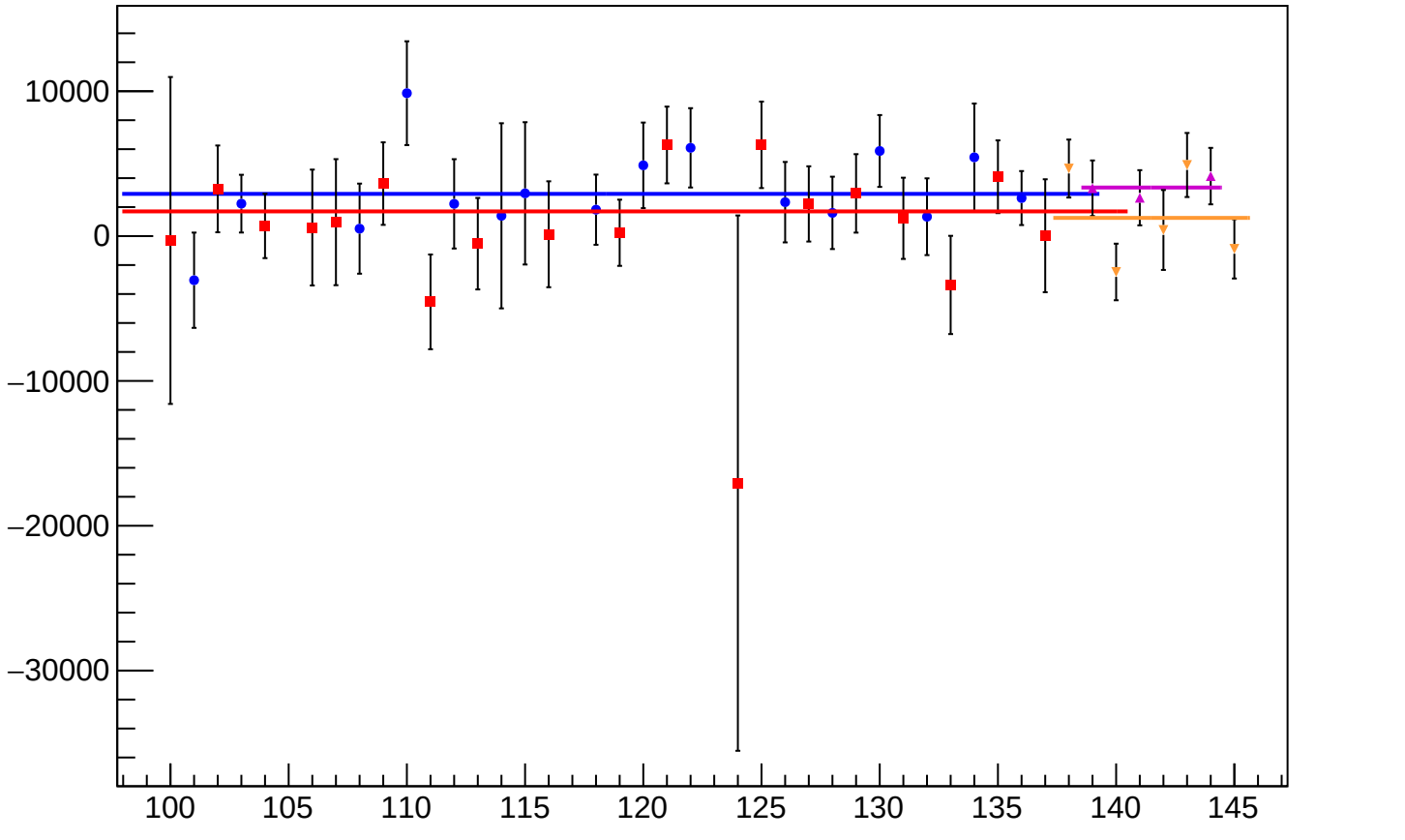
Left: 4459.199+/-1.268 $\chi^2$/NDF: 170126.1/7

Right: 1854.387+/-0.478 $\chi^2$/NDF: 13309116.0/34

In: 2144.164+/-0.647 $\chi^2$/NDF:8607793.4/18

Out: 2208.947+/-0.618 $\chi^2$/NDF:8560407.9/23

All: 2178.041+/-0.447 $\chi^2$/NDF: 17173440.1/4




Right In: 2913.091+/-695.062 $\chi^2$/NDF: 12.4/15

Left Out: 1254.504+/-959.680 $\chi^2$/NDF:10.5/4

Right Out: 1703.523+/-706.847 $\chi^2$/NDF: 15.8/18

Left In: 3351.674+/-1110.271 $\chi^2$/NDF:0.3/2

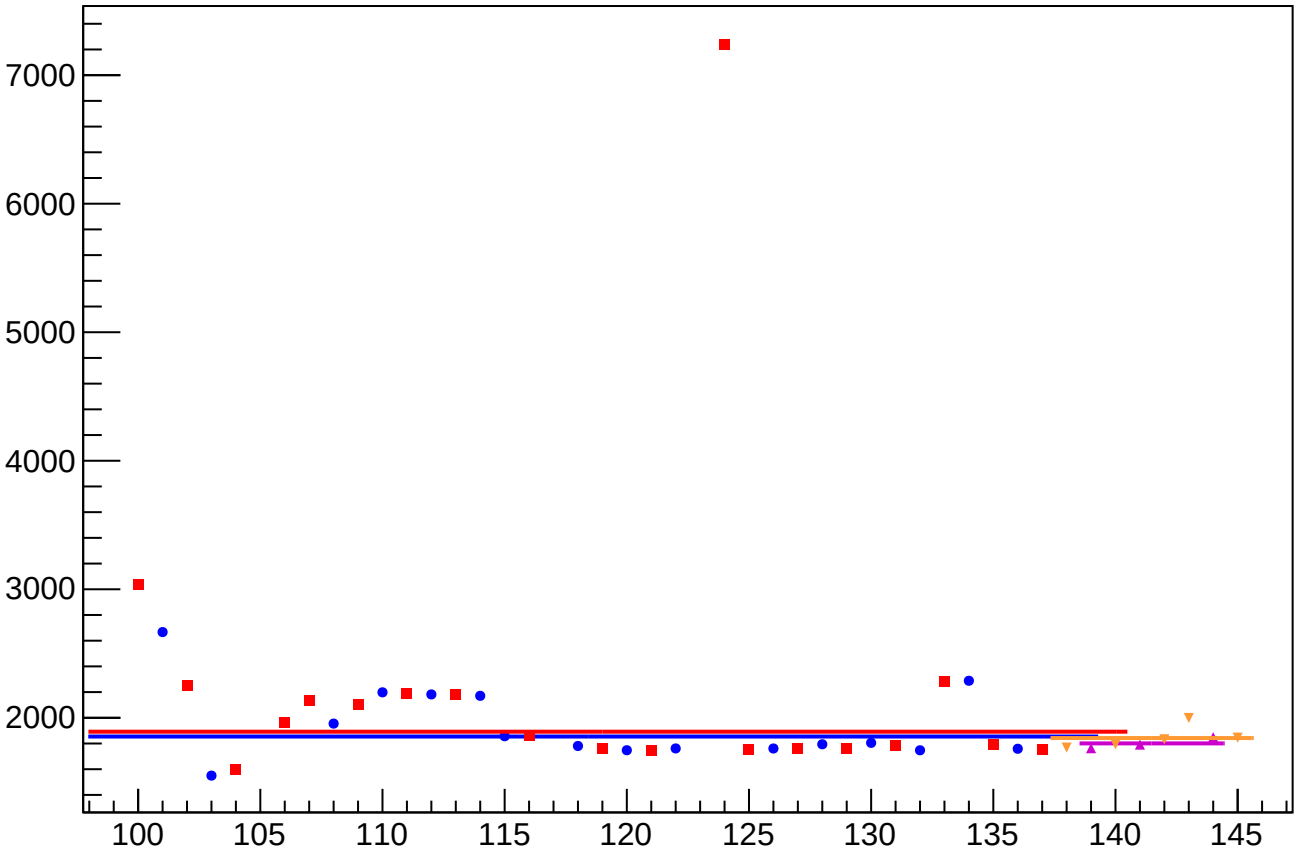
Left: 2151.321+/-726.046 $\chi^2$/NDF: 12.8/7

Right: 2318.475+/-495.597 $\chi^2$/NDF: 29.8/34

In: 3036.580+/-589.139 $\chi^2$/NDF:12.9/18

Out: 1545.603+/-569.132 $\chi^2$/NDF:26.4/23

All: 2265.346+/-409.327 $\chi^2$/NDF: 42.6/42




Right In: 1854.314+/-0.491 $\chi^2$/NDF: 263322.5/15

Left Out: 1842.484+/-0.679 $\chi^2$/NDF:13984.9/4

Right Out: 1891.927+/-0.499 $\chi^2$/NDF: 364292.2/18

Left In: 1800.864+/-0.785 $\chi^2$/NDF:2051.0/2

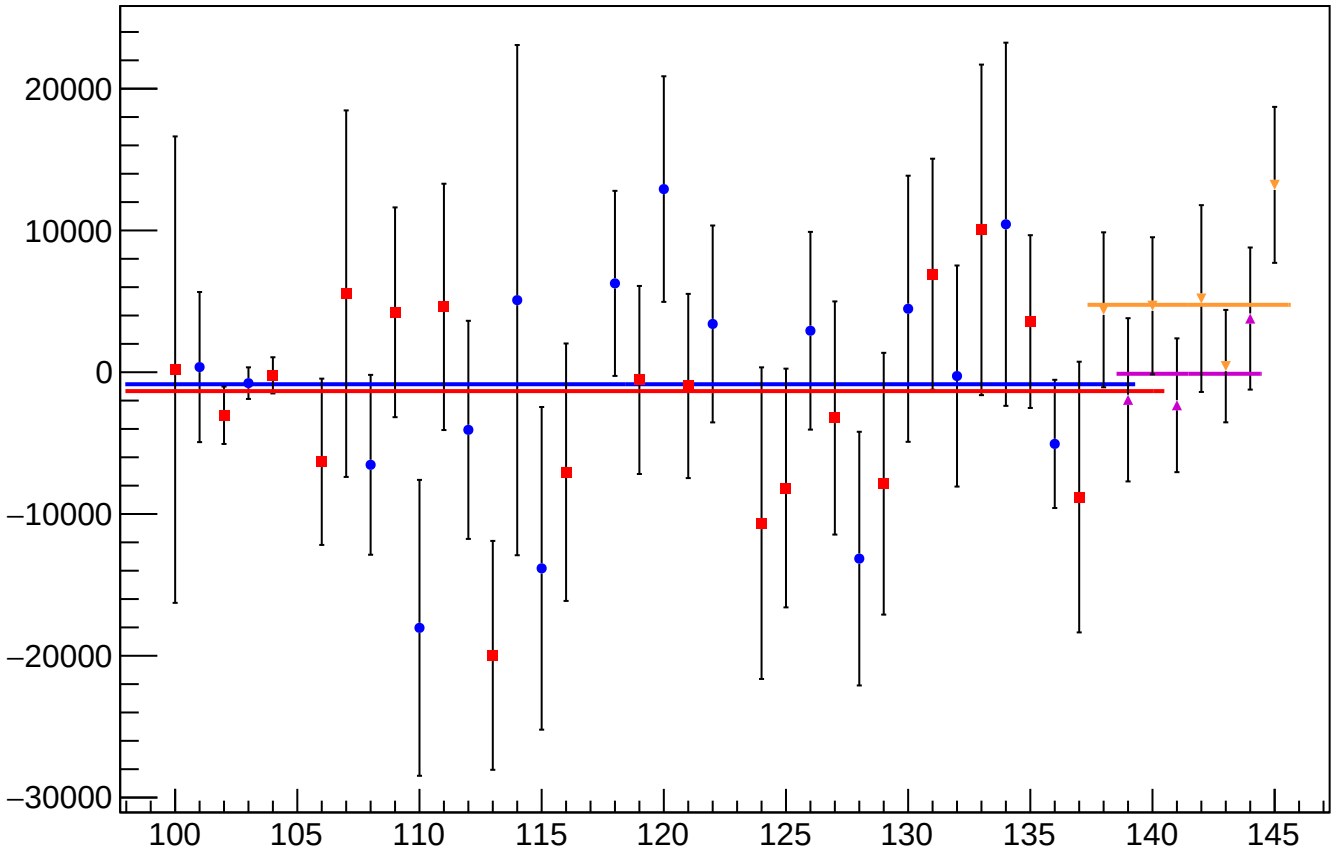
Left: 1824.686+/-0.513 $\chi^2$/NDF: 17644.6/7

Right: 1872.844+/-0.350 $\chi^2$/NDF: 630500.1/34

In: 1839.264+/-0.417 $\chi^2$/NDF:268703.6/18

Out: 1874.585+/-0.402 $\chi^2$/NDF:381723.7/23

All: 1857.559+/-0.289 $\chi^2$/NDF: 654150.9/42




Right In: -847.504+/-962.866 $\chi^2$/NDF: 13.9/15

Left Out: 4755.108+/-2259.038 $\chi^2$/NDF:3.6/4

Right Out: -1331.371+/-948.163 $\chi^2$/NDF: 14.4/18

Left In: -109.483+/-2950.096 $\chi^2$/NDF:0.9/2

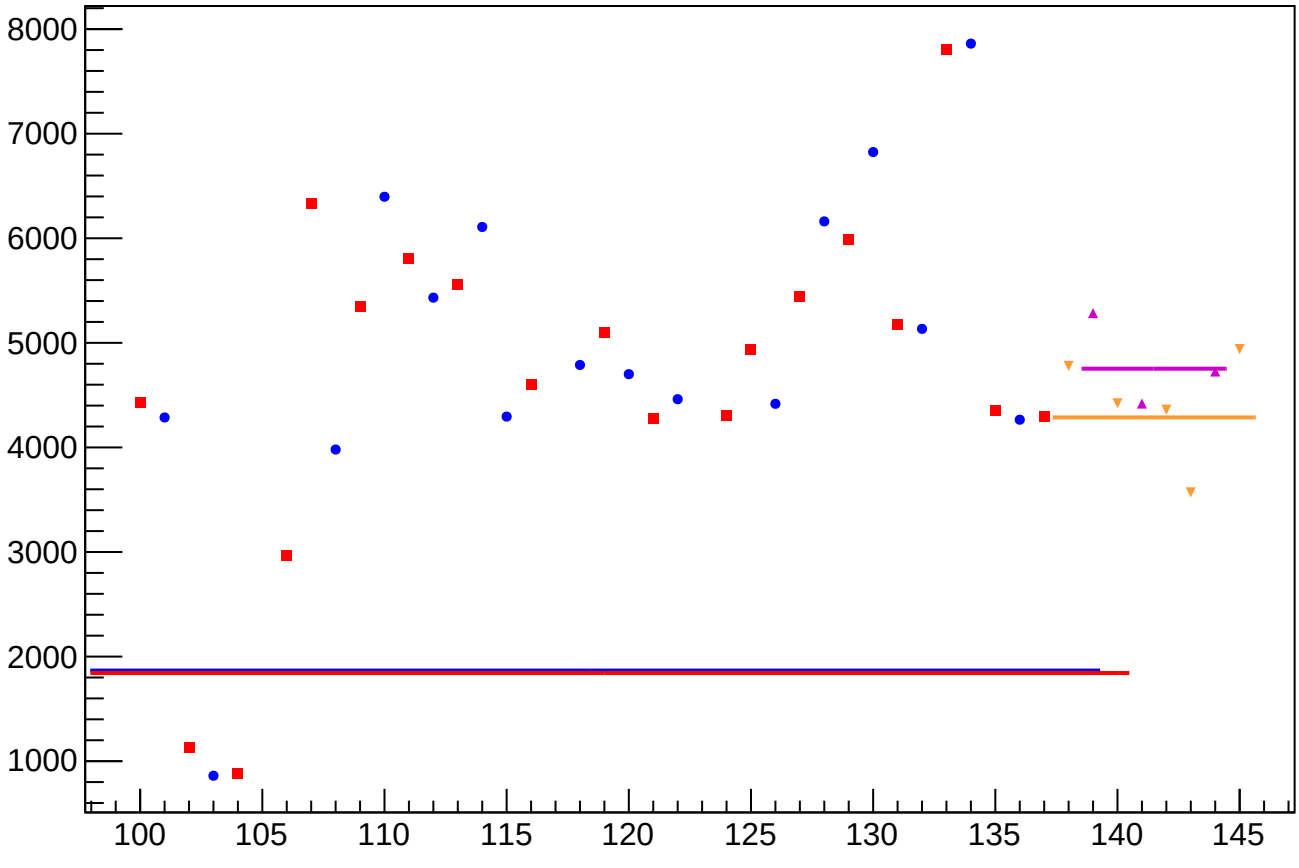
Left: 2957.001+/-1793.580 $\chi^2$/NDF: 6.2/7

Right: -1093.160+/-675.591 $\chi^2$/NDF: 28.4/34

In: -776.453+/-915.345 $\chi^2$/NDF:14.8/18

Out: -419.745+/-874.277 $\chi^2$/NDF:24.2/23

All: -589.917+/-632.227 $\chi^2$/NDF: 39.1/42




Right In: 1866.251+/-0.681 $\chi^2$/NDF: 6850061.4/15

Left Out: 4286.914+/-1.597 $\chi^2$/NDF:111604.7/4

Right Out: 1842.882+/-0.670 $\chi^2$/NDF: 6458456.4/18

Left In: 4753.011+/-2.086 $\chi^2$/NDF:27050.8/2

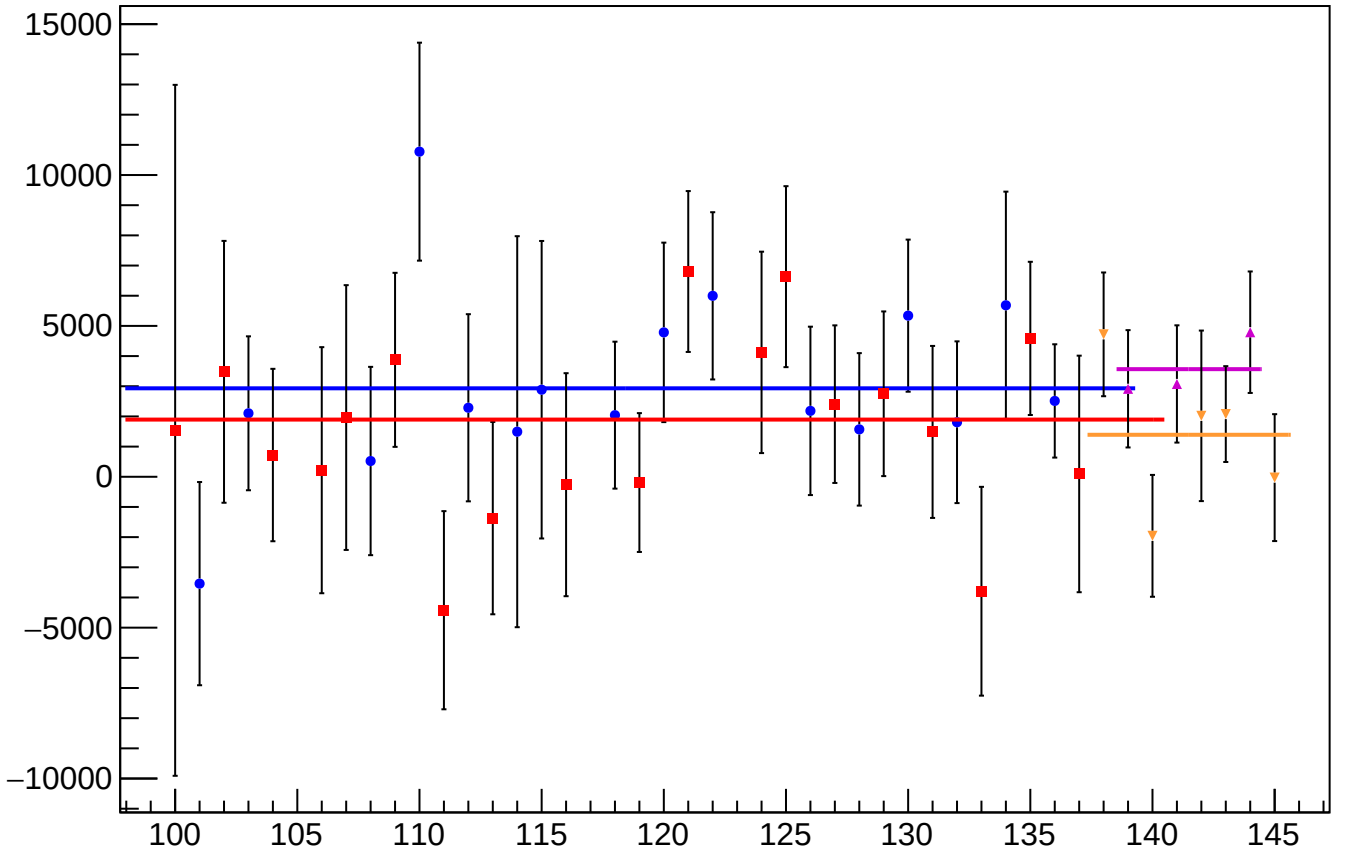
Left: 4459.199+/-1.268 $\chi^2$/NDF: 170126.1/7

Right: 1854.387+/-0.478 $\chi^2$/NDF: 13309116.0/34

In: 2144.164+/-0.647 $\chi^2$/NDF:8607793.4/18

Out: 2208.947+/-0.618 $\chi^2$/NDF:8560407.9/23

All: 2178.041+/-0.447 $\chi^2$/NDF: 17173440.1/4




Right In: 2931.691+/-718.305 $\chi^2$/NDF: 13.0/15

Left Out: 1391.804+/-901.259 $\chi^2$/NDF:6.1/4

Right Out: 1895.503+/-721.954 $\chi^2$/NDF: 17.4/18

Left In: 3566.740+/-1135.038 $\chi^2$/NDF:0.5/2

Left: 2232.825+/-705.815 $\chi^2$/NDF: 8.9/7

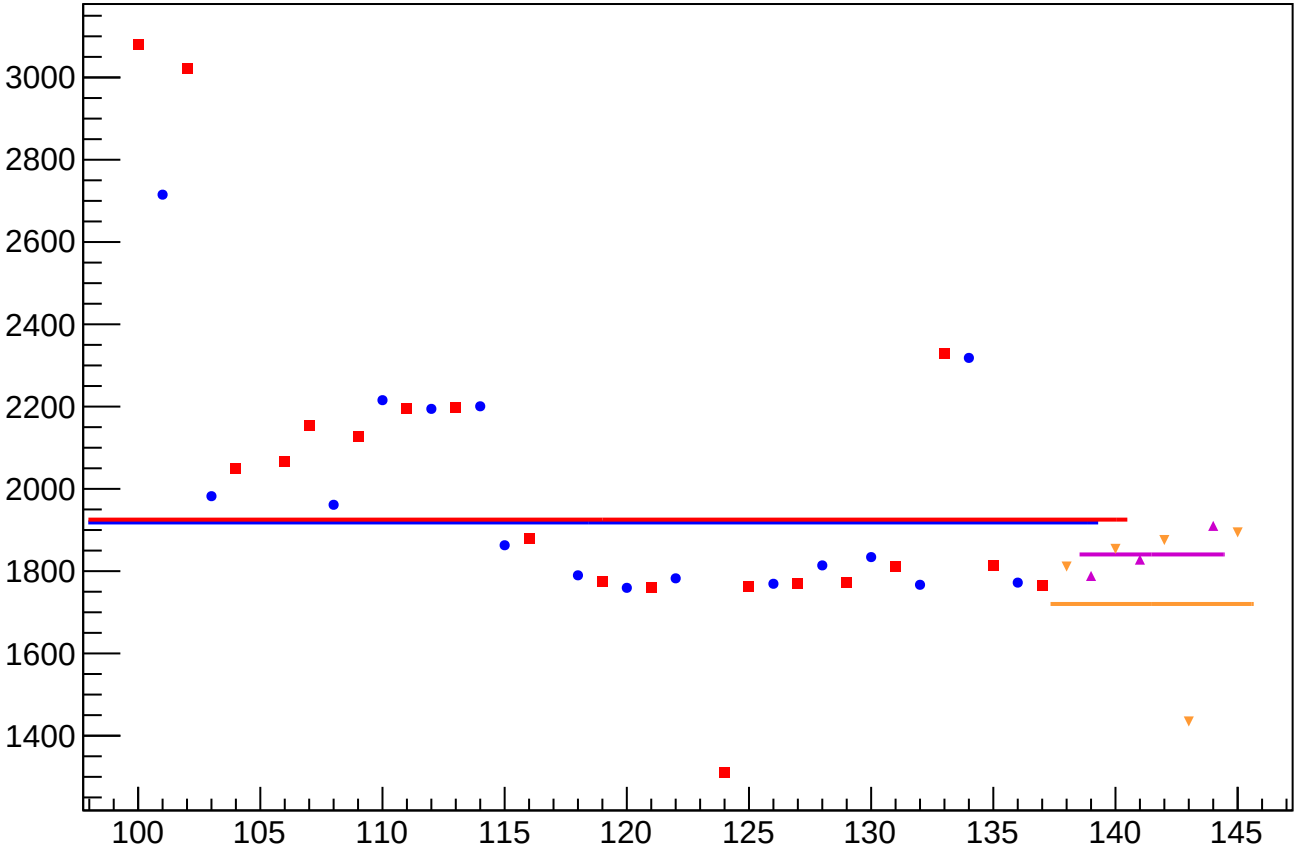
Right: 2416.221+/-509.204 $\chi^2$/NDF: 31.4/34

In: 3113.294+/-606.972 $\chi^2$/NDF:13.8/18

Out: 1698.623+/-563.462 $\chi^2$/NDF:23.7/23

All: 2353.442+/-412.954 $\chi^2$/NDF: 40.3/42

# dit_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1918.367+/-0.508 $\chi^2$/NDF: 215592.7/15

Left Out: 1720.230+/-0.637 $\chi^2$/NDF:97178.4/4

Right Out: 1925.260+/-0.510 $\chi^2$/NDF: 339095.4/18

Left In: 1840.599+/-0.803 $\chi^2$/NDF:3909.4/2

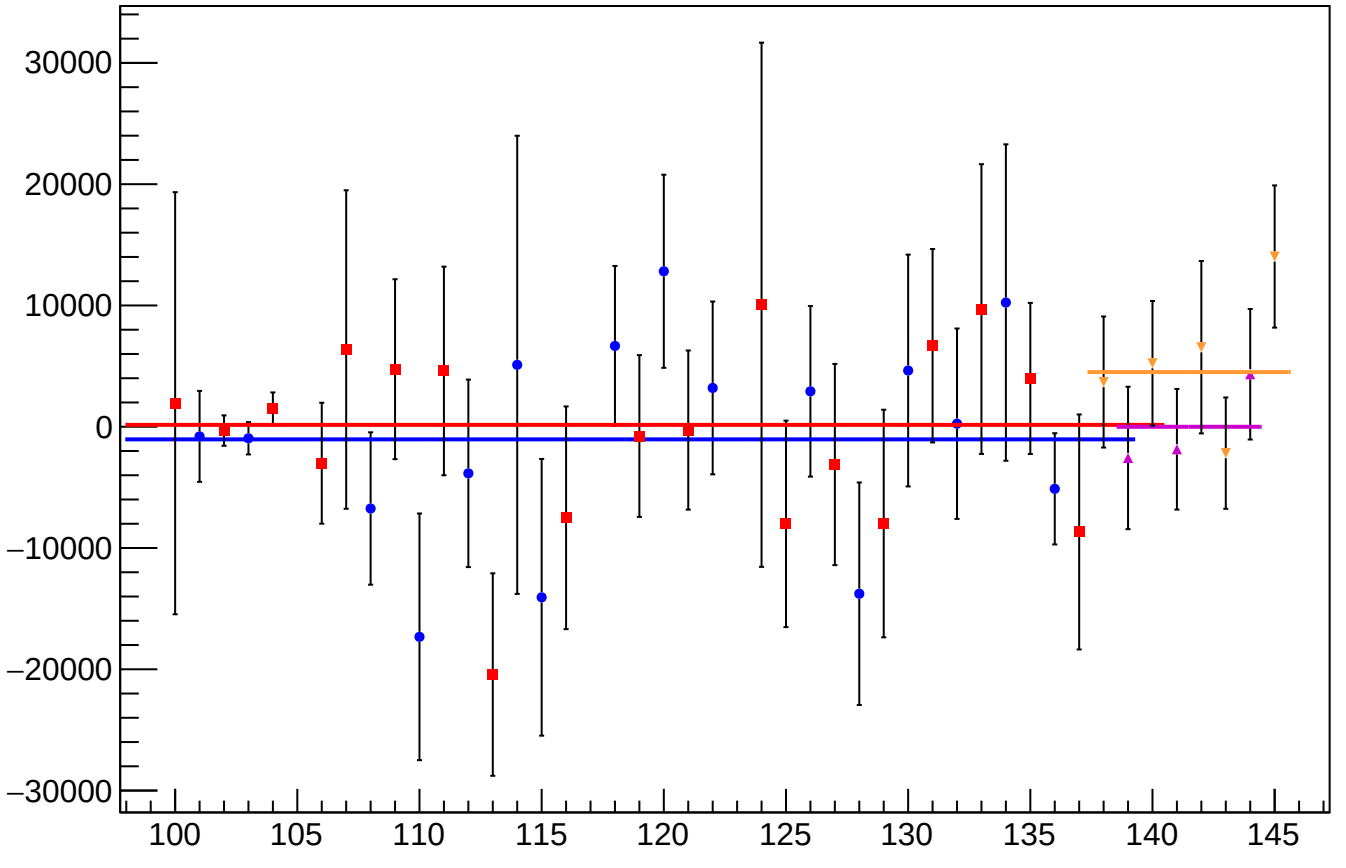
Left: 1766.775+/-0.499 $\chi^2$/NDF: 114882.9/7

Right: 1921.799+/-0.360 $\chi^2$/NDF: 554779.7/34

In: 1896.128+/-0.429 $\chi^2$/NDF:226206.0/18

Out: 1845.200+/-0.398 $\chi^2$/NDF:499363.1/23

All: 1868.761+/-0.292 $\chi^2$/NDF: 733135.4/42




Right In: -1041.908+/-1072.406 $\chi^2$/NDF: 13.8/15

Left Out: 4506.157+/-2436.283 $\chi^2$/NDF:4.9/4

Right Out: 153.619+/-835.656 $\chi^2$/NDF: 13.7/18

Left In: -4.246+/-3101.919 $\chi^2$/NDF:1.0/2

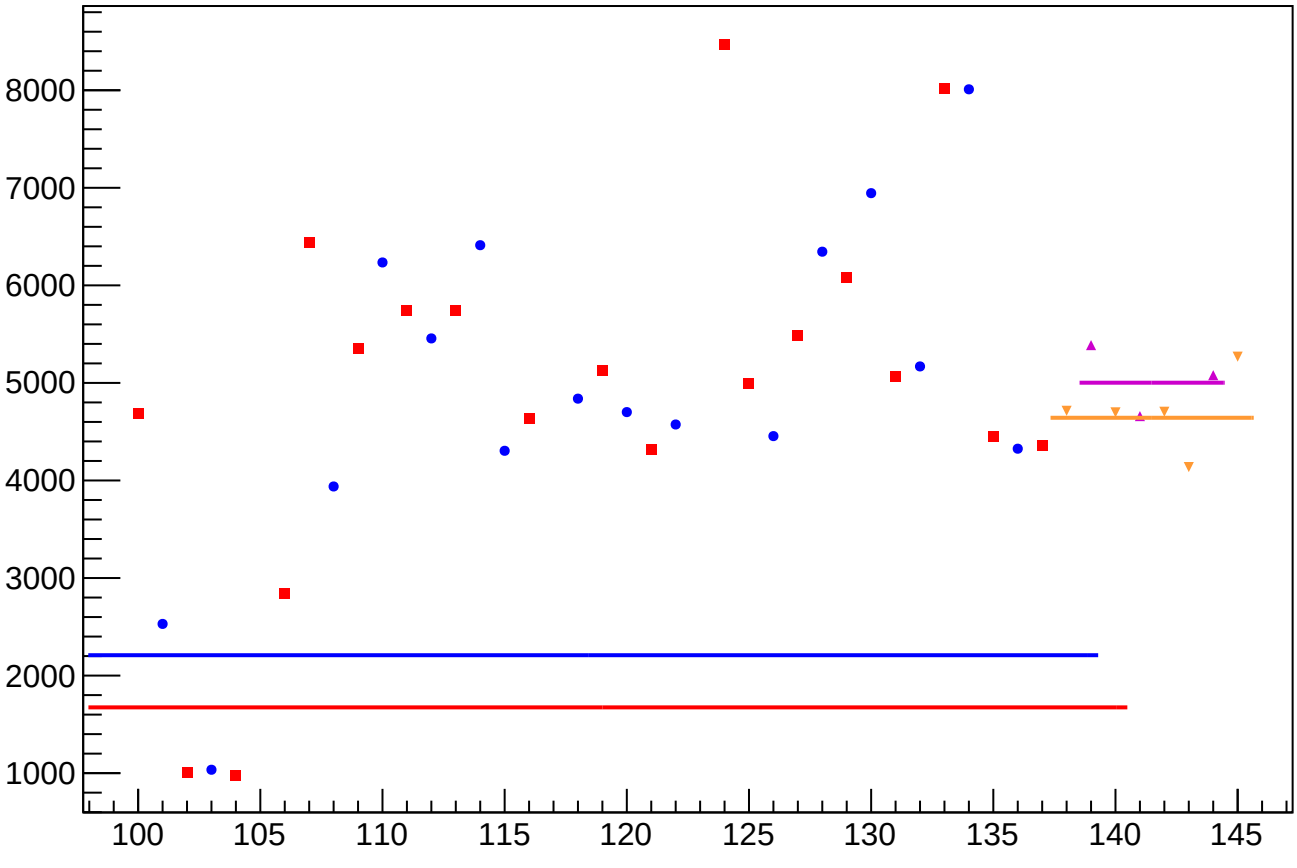
Left: 2785.341+/-1915.976 $\chi^2$/NDF: 7.2/7

Right: -298.053+/-659.161 $\chi^2$/NDF: 28.3/34

In: -931.123+/-1013.544 $\chi^2$/NDF:14.9/18

Out: 611.798+/-790.449 $\chi^2$/NDF:21.5/23

All: 28.272+/-623.305 $\chi^2$/NDF: 37.8/42




Right In: 2208.912+/-0.758 $\chi^2$/NDF: 5499011.4/15

Left Out: 4642.751+/-1.723 $\chi^2$/NDF:47778.6/4

Right Out: 1674.162+/-0.591 $\chi^2$/NDF: 6853212.9/18

Left In: 5002.185+/-2.193 $\chi^2$/NDF:18497.8/2

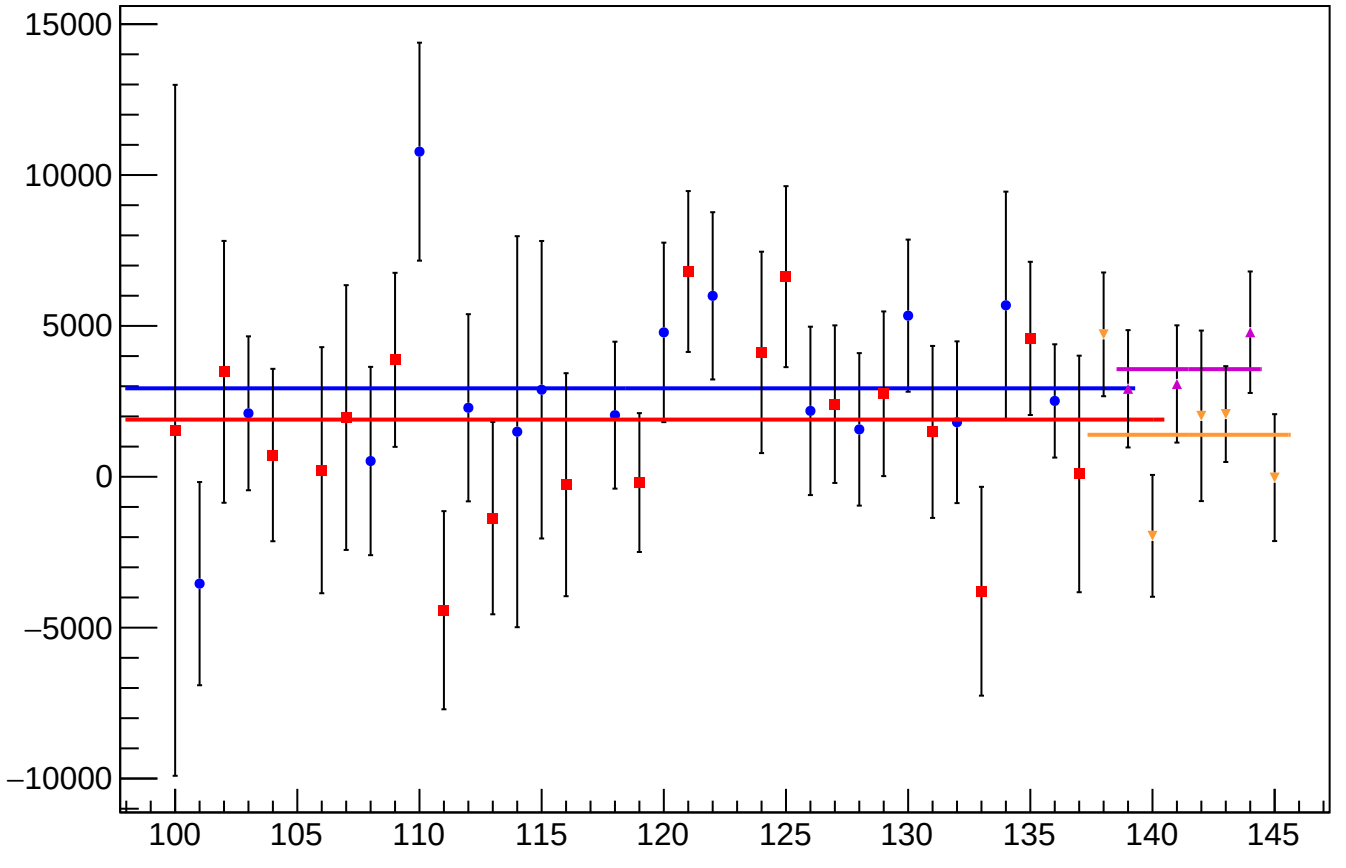
Left: 4779.883+/-1.355 $\chi^2$/NDF: 82885.0/7

Right: 1876.192+/-0.466 $\chi^2$/NDF: 12661639.3/34

In: 2507.132+/-0.717 $\chi^2$/NDF:6966154.8/18

Out: 1986.657+/-0.559 $\chi^2$/NDF:9557847.3/23

All: 2183.498+/-0.441 $\chi^2$/NDF: 16851946.1/4




Right In: 2931.693+/-718.305 $\chi^2$/NDF: 13.0/15

Left Out: 1391.807+/-901.260 $\chi^2$/NDF:6.1/4

Right Out: 1895.508+/-721.953 $\chi^2$/NDF: 17.4/18

Left In: 3566.729+/-1135.039 $\chi^2$/NDF:0.5/2

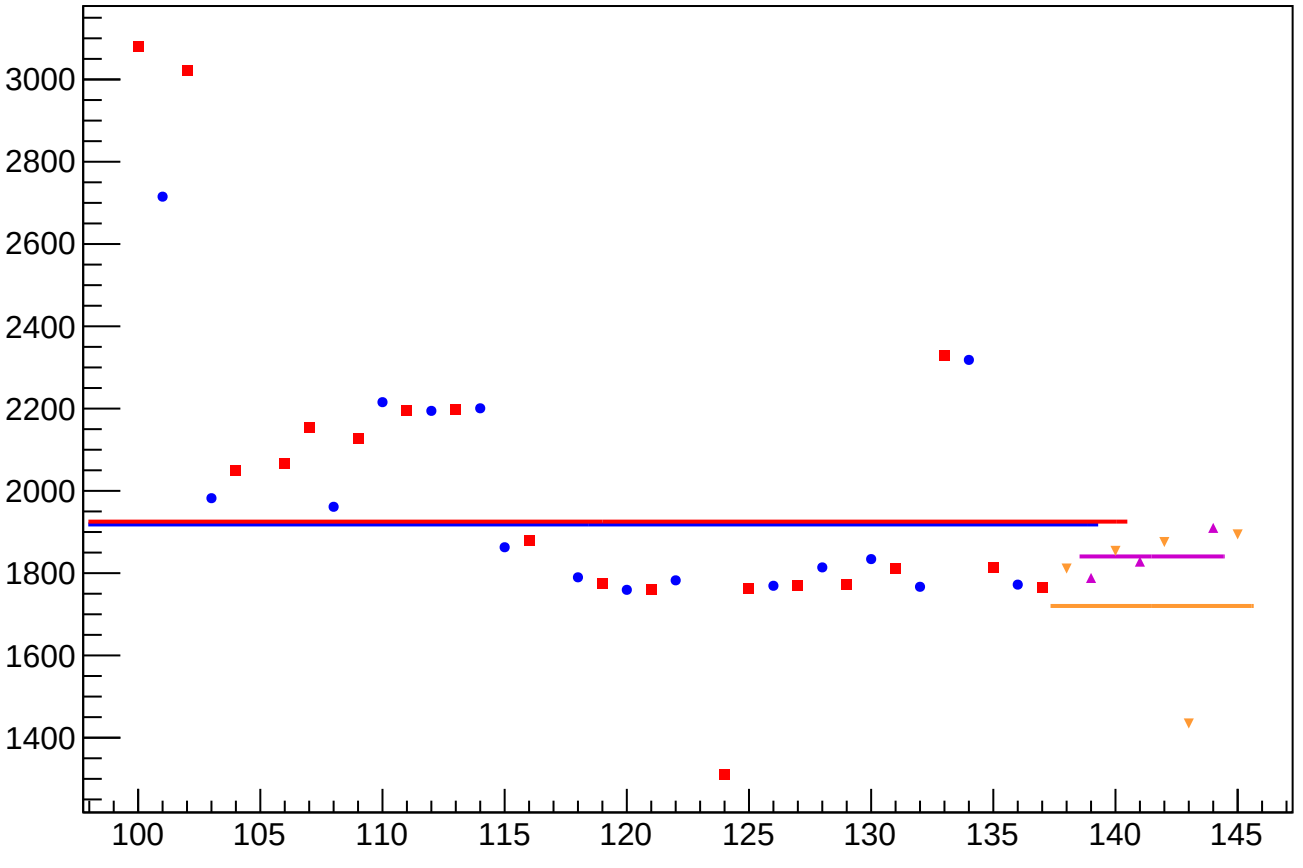
Left: 2232.823+/-705.815 $\chi^2$/NDF: 8.9/7

Right: 2416.225+/-509.203 $\chi^2$/NDF: 31.4/34

In: 3113.292+/-606.972 $\chi^2$/NDF:13.8/18

Out: 1698.628+/-563.462 $\chi^2$/NDF:23.7/23

All: 2353.444+/-412.954 $\chi^2$/NDF: 40.3/42




Right In: 1918.367+/-0.508 $\chi^2$/NDF: 215592.7/15

Left Out: 1720.231+/-0.637 $\chi^2$/NDF:97177.4/4

Right Out: 1925.259+/-0.510 $\chi^2$/NDF: 339094.4/18

Left In: 1840.600+/-0.803 $\chi^2$/NDF:3909.4/2

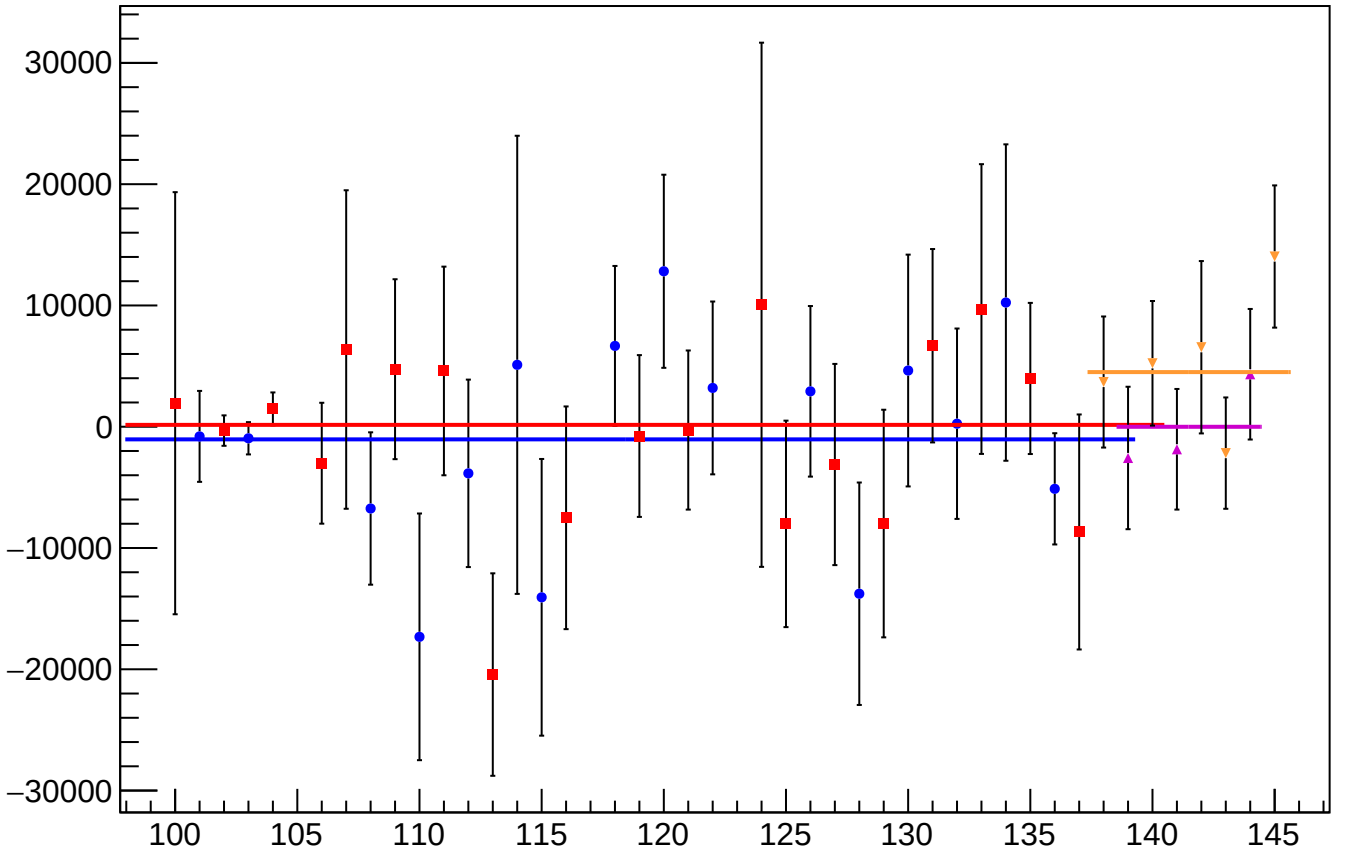
Left: 1766.776+/-0.499 $\chi^2$/NDF: 114881.8/7

Right: 1921.798+/-0.360 $\chi^2$/NDF: 554778.8/34

In: 1896.128+/-0.429 $\chi^2$/NDF:226205.9/18

Out: 1845.200+/-0.398 $\chi^2$/NDF:499359.9/23

All: 1868.761+/-0.292 $\chi^2$/NDF: 733132.0/42




Right In: -1041.906+/-1072.405 $\chi^2$/NDF: 13.8/15

Left Out: 4506.166+/-2436.287 $\chi^2$/NDF:4.9/4

Right Out: 153.614+/-835.655 $\chi^2$/NDF: 13.7/18

Left In: -4.258+/-3101.922 $\chi^2$/NDF:1.0/2

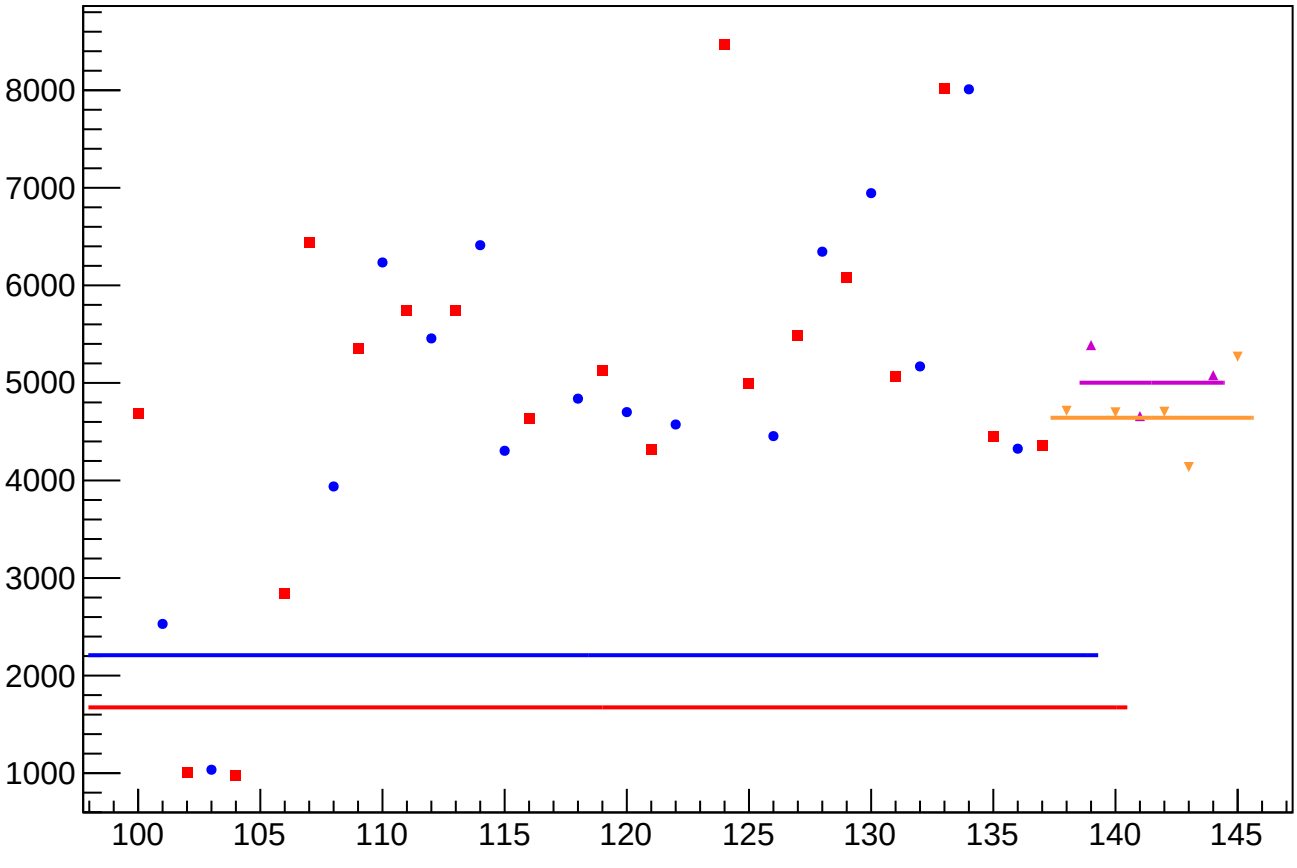
Left: 2785.341+/-1915.978 $\chi^2$/NDF: 7.2/7

Right: -298.056+/-659.161 $\chi^2$/NDF: 28.3/34

In: -931.123+/-1013.543 $\chi^2$/NDF:14.9/18

Out: 611.793+/-790.449 $\chi^2$/NDF:21.5/23

All: 28.268+/-623.305 $\chi^2$/NDF: 37.8/42




Right In: 2208.911+/-0.758 $\chi^2$/NDF: 5499004.2/15

Left Out: 4642.757+/-1.723 $\chi^2$/NDF:47778.4/4

Right Out: 1674.162+/-0.591 $\chi^2$/NDF: 6853204.8/18

Left In: 5002.190+/-2.193 $\chi^2$/NDF:18498.3/2

Left: 4779.889+/-1.355 $\chi^2$/NDF: 82885.1/7

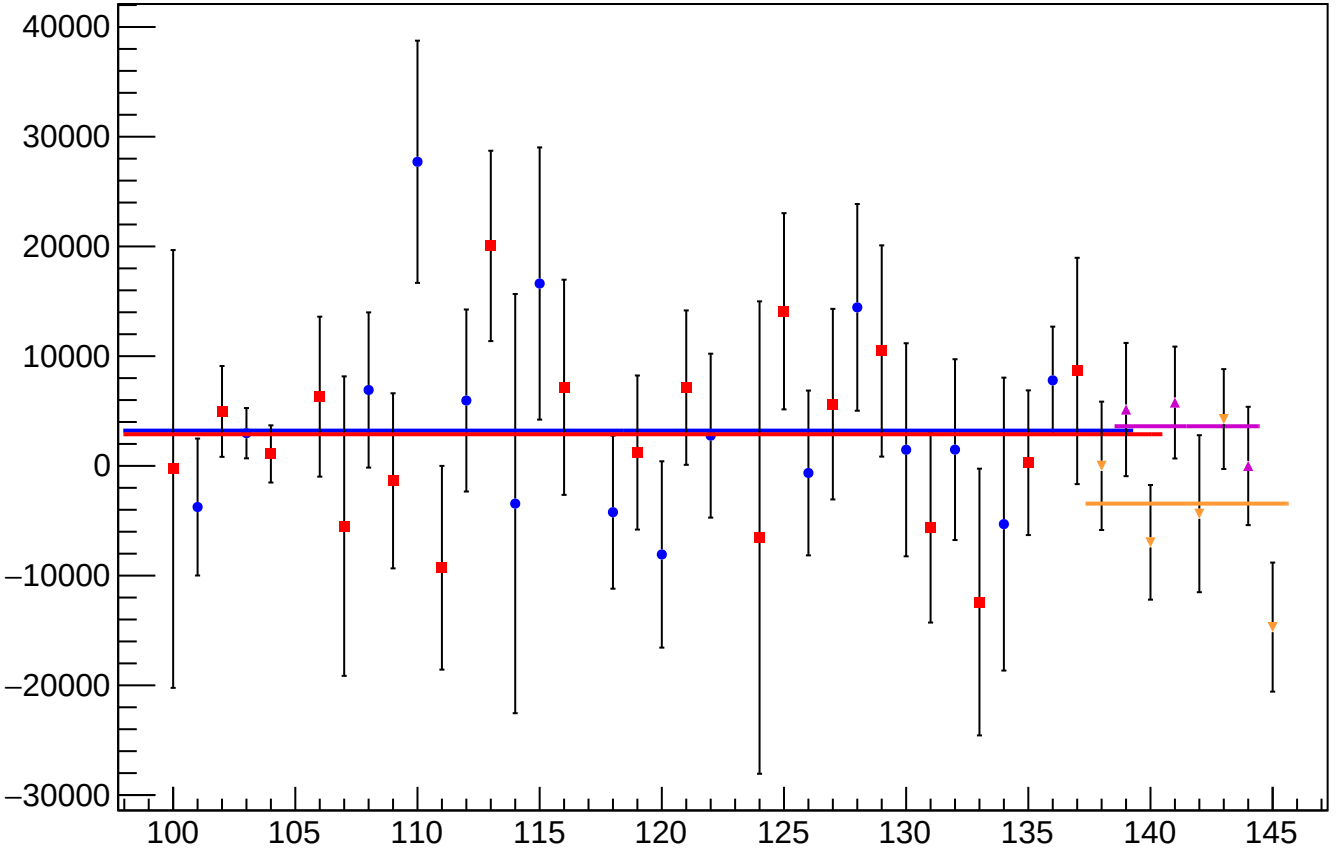
Right: 1876.191+/-0.466 $\chi^2$/NDF: 12661624.0/34

In: 2507.131+/-0.717 $\chi^2$/NDF:6966151.4/18

Out: 1986.656+/-0.559 $\chi^2$/NDF:9557844.9/23

All: 2183.498+/-0.441 $\chi^2$/NDF: 16851940.0/4

# asym_atl1r2_avg_mean vs Slug, Sign Corrected




Right In: 3215.695+/-1539.262 $\chi^2$/NDF: 13.8/15

Left Out: -3437.450+/-2479.871 $\chi^2$/NDF:7.3/4

Right Out: 2883.411+/-1552.120 $\chi^2$/NDF: 13.4/18

Left In: 3611.967+/-3162.730 $\chi^2$/NDF:0.7/2

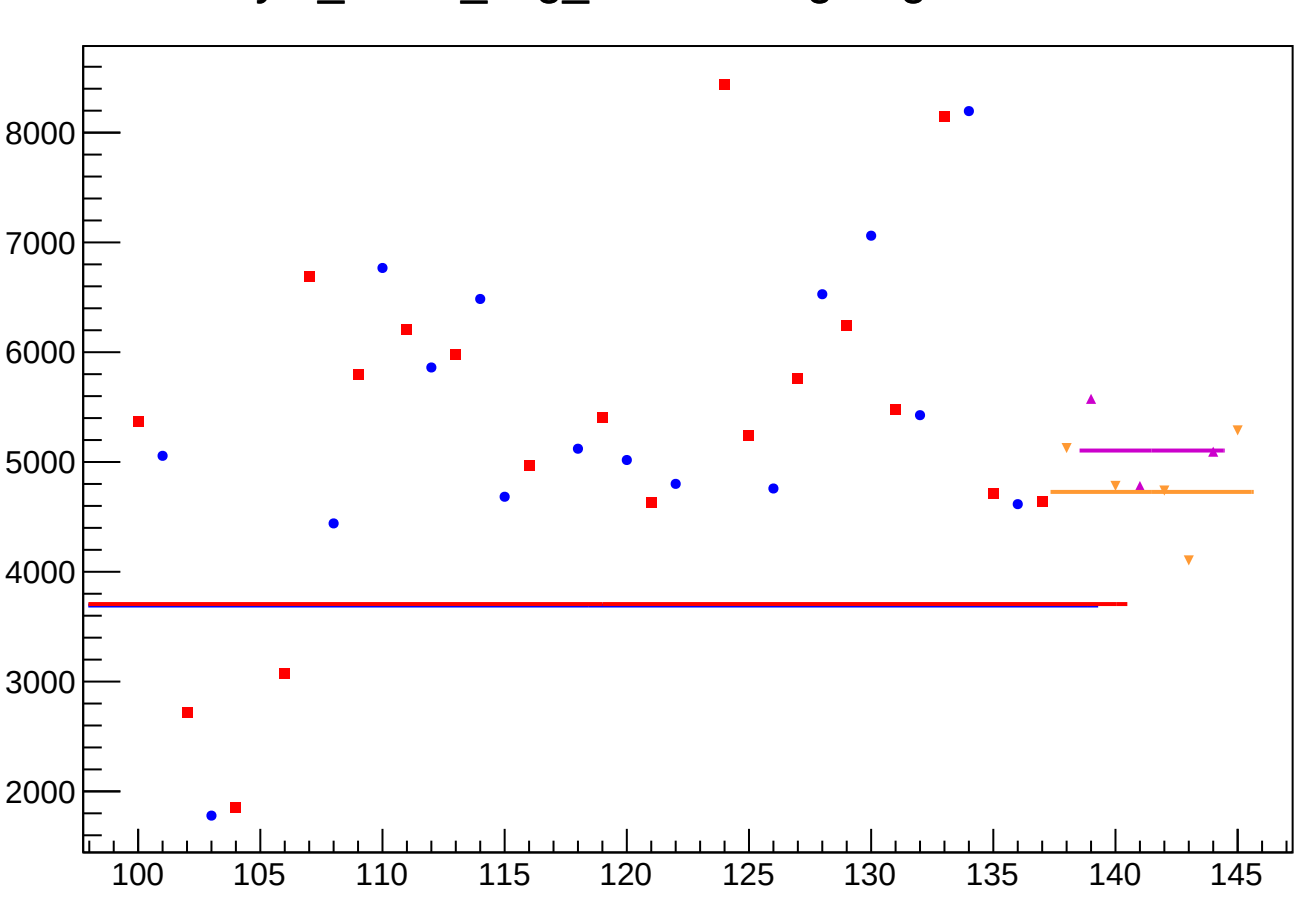
Left: -753.537+/-1951.505 $\chi^2$/NDF: 11.1/7

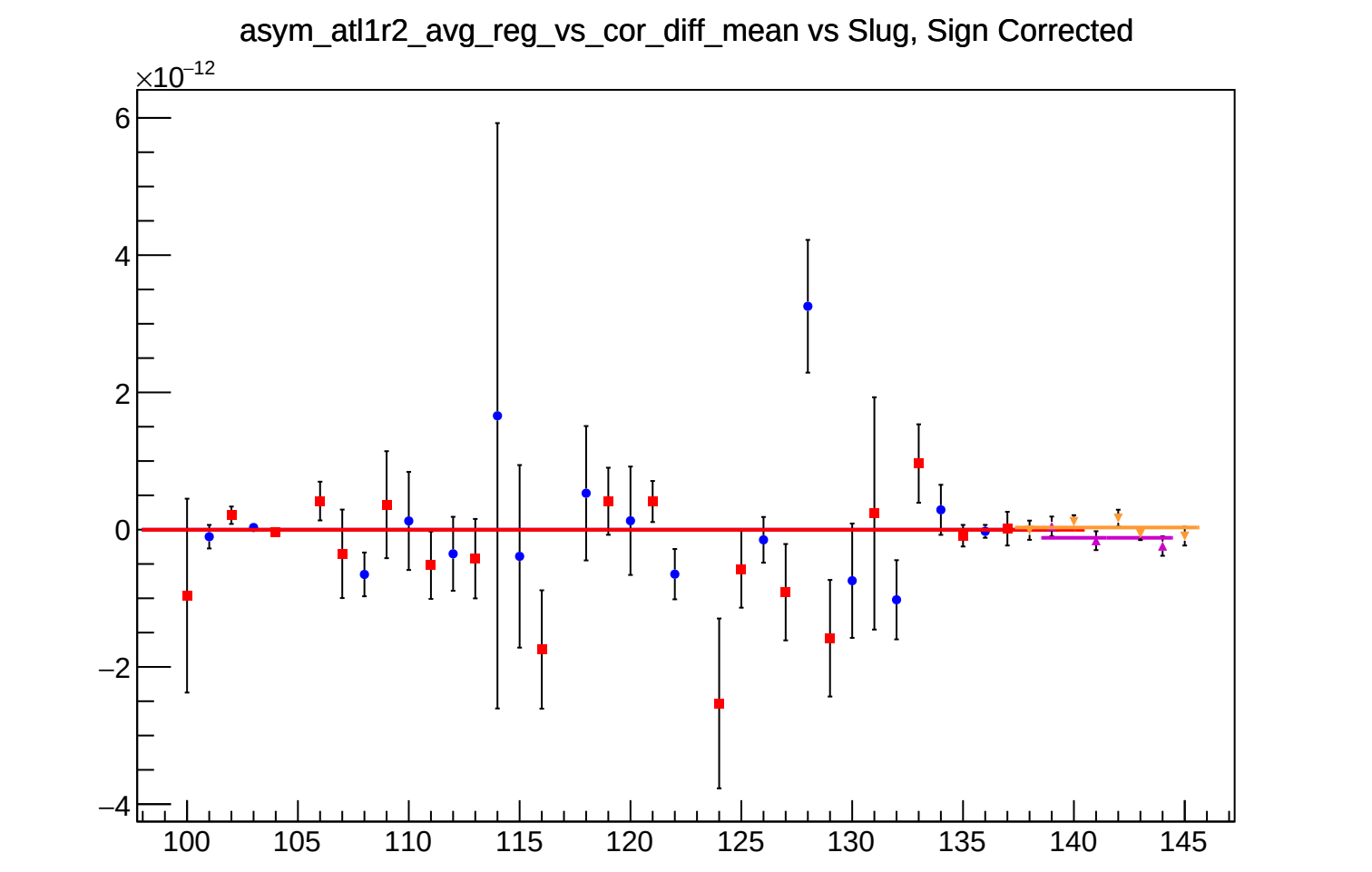
Right: 3050.935+/-1092.940 $\chi^2$/NDF: 27.2/34

In: 3291.582+/-1384.049 $\chi^2$/NDF:14.5/18

Out: 1104.262+/-1315.670 $\chi^2$/NDF:25.4/23

All: 2142.558+/-953.577 $\chi^2$/NDF: 41.2/42


asym_atl1r2_avg_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
100
105
110
115
120
125
130
135
140
145
Right In: 3692.815+/-1.088 χ²/NDF: 2885658.0/15
Left Out: 4727.590+/-1.754 χ²/NDF:65280.2/4
Right Out: 3706.081+/-1.087 χ²/NDF: 2684528.0/18
Left In: 5104.332+/-2.236 χ²/NDF:20062.3/2
Left: 4871.026+/-1.380 χ²/NDF: 102916.8/7
Right: 3699.460+/-0.769 χ²/NDF: 5570260.4/34
In: 3963.127+/-0.979 χ²/NDF:3227794.3/18
Out: 3989.481+/-0.924 χ²/NDF:2995016.1/23
All: 3977.066+/-0.672 χ²/NDF: 6223194.0/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.2/2

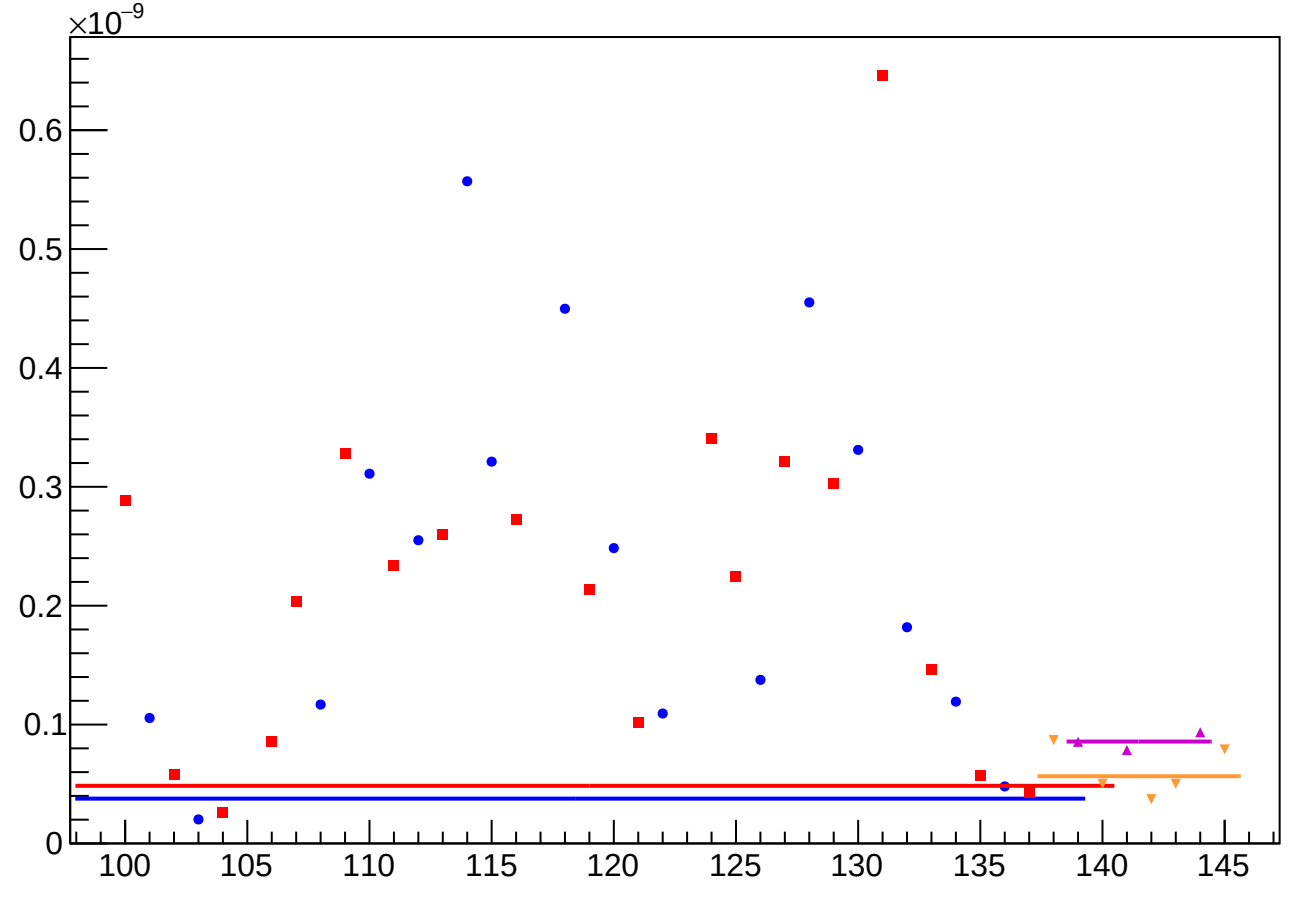
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.6/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 53.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:29.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:32.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 62.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3140697.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:216969.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2895431.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:11426.3/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 415444.3/7

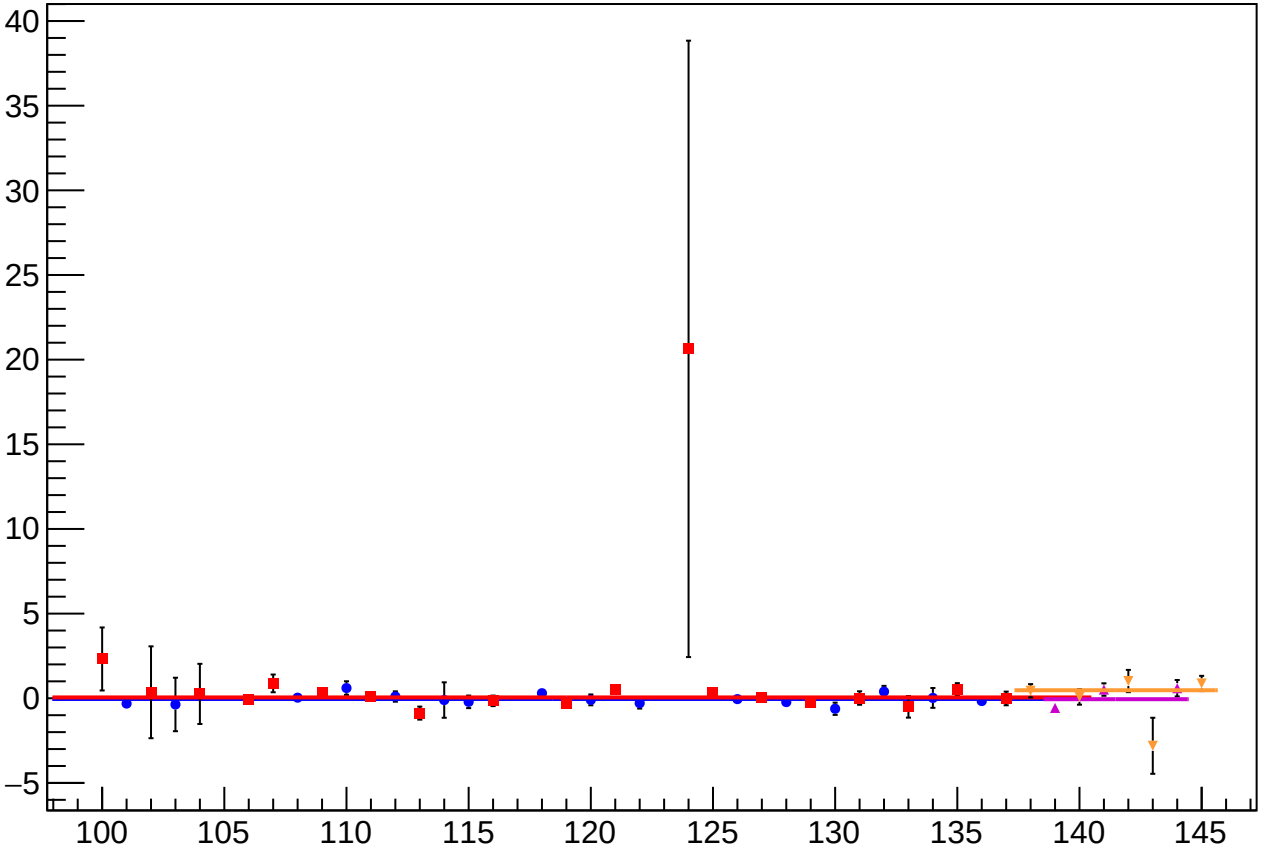
Right: 0.000+/-0.000 $\chi^2$/NDF: 6105820.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3734326.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3141556.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6912933.9/42

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: 0.474+/-0.231 $\chi^2$/NDF:6.1/4

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.055+/-0.200 $\chi^2$/NDF:7.8/2

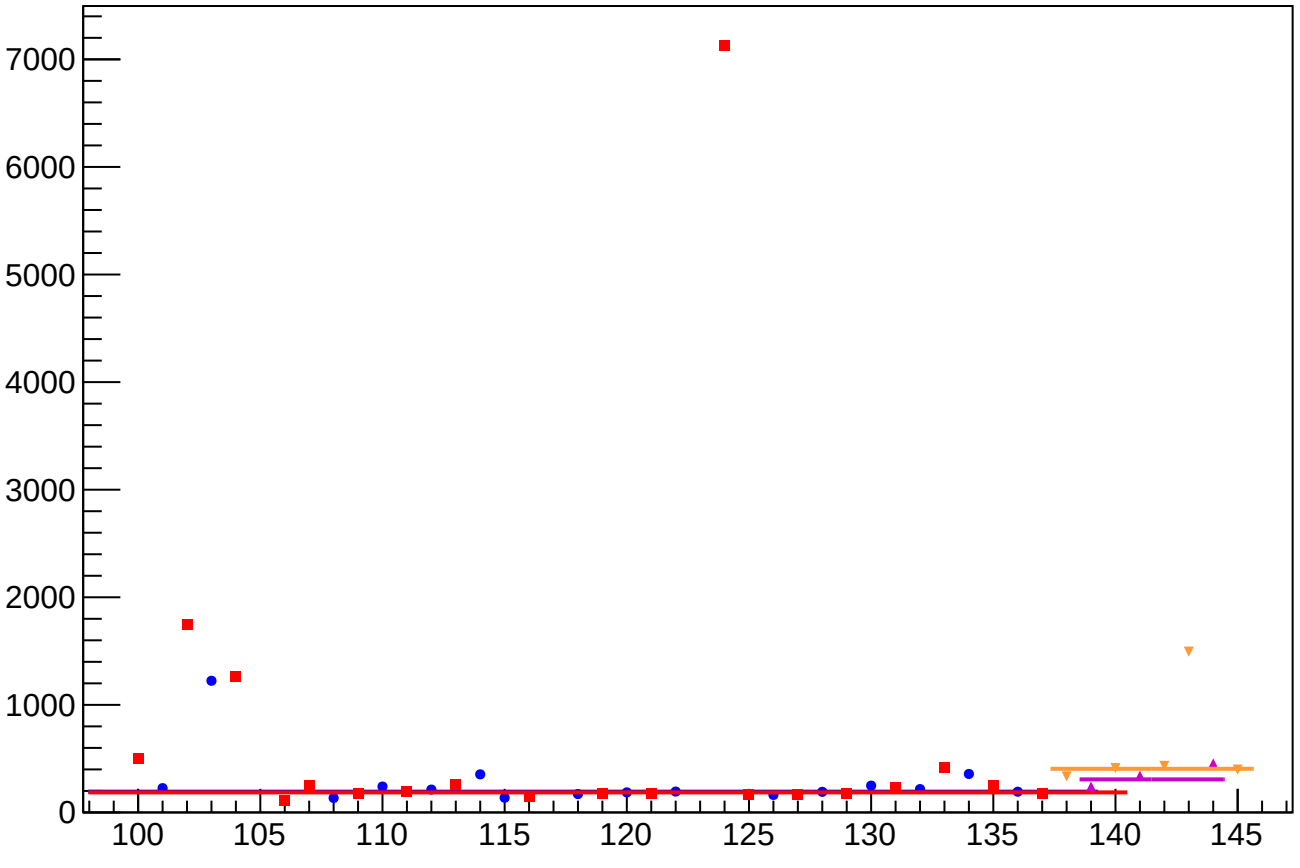
Left: 0.171+/-0.151 $\chi^2$/NDF: 16.9/7

Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.043+/-0.072 $\chi^2$/NDF:19.5/18

Out: 0.094+/-0.075 $\chi^2$/NDF:32.2/23

All: 0.023+/-0.052 $\chi^2$/NDF: 53.4/42




Right In: 193.248+/-0.055 $\chi^2$/NDF: 1408397.0/15

Left Out: 405.737+/-0.163 $\chi^2$/NDF:934824.2/4

Right Out: 186.379+/-0.056 $\chi^2$/NDF: 2479083.9/18

Left In: 307.345+/-0.141 $\chi^2$/NDF:325478.2/2

Left: 349.435+/-0.107 $\chi^2$/NDF: 1468295.8/7

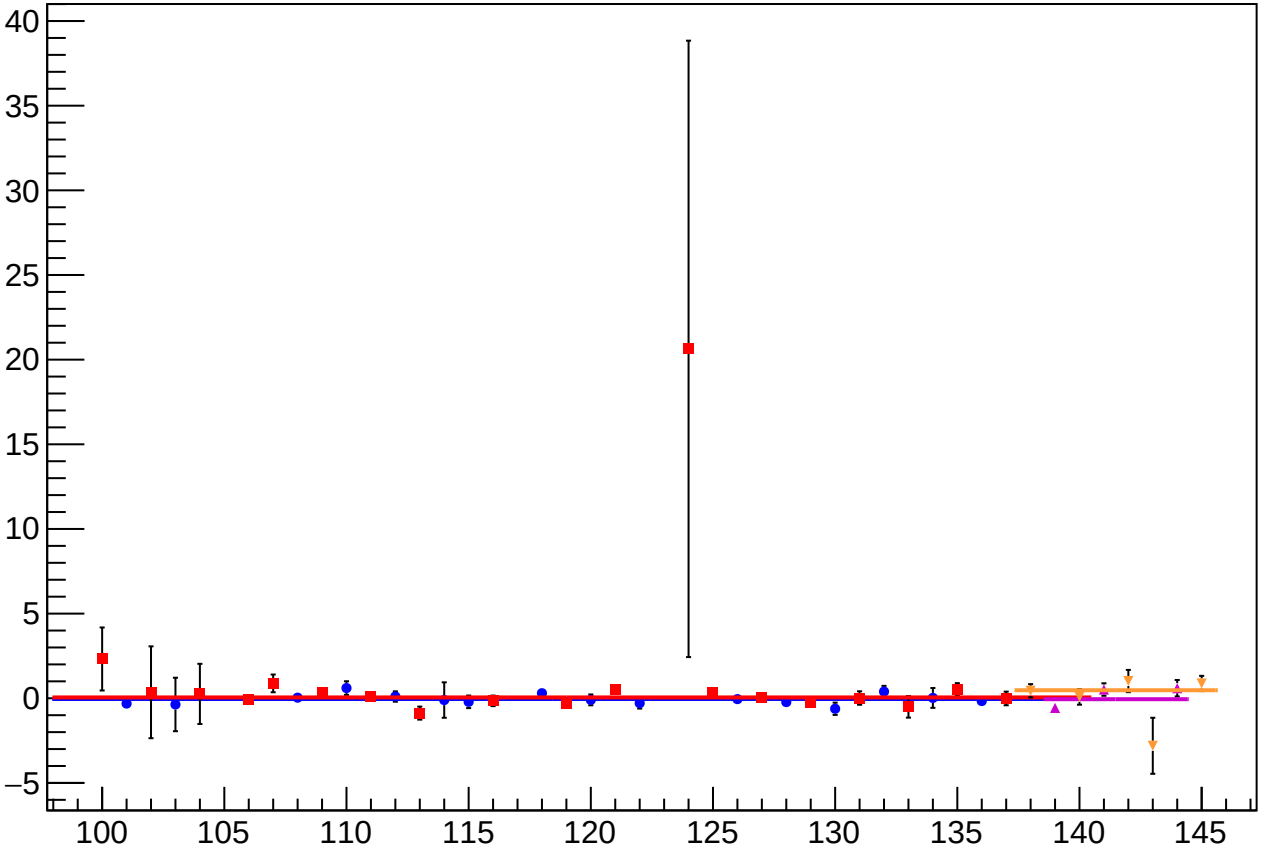
Right: 189.859+/-0.039 $\chi^2$/NDF: 3895183.9/34

In: 208.287+/-0.051 $\chi^2$/NDF:2301505.6/18

Out: 209.275+/-0.053 $\chi^2$/NDF:5032004.2/23

All: 208.767+/-0.037 $\chi^2$/NDF: 7333690.5/42

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: 0.474+/-0.231 $\chi^2$/NDF:6.1/4

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.055+/-0.200 $\chi^2$/NDF:7.8/2

Left: 0.171+/-0.151 $\chi^2$/NDF: 16.9/7

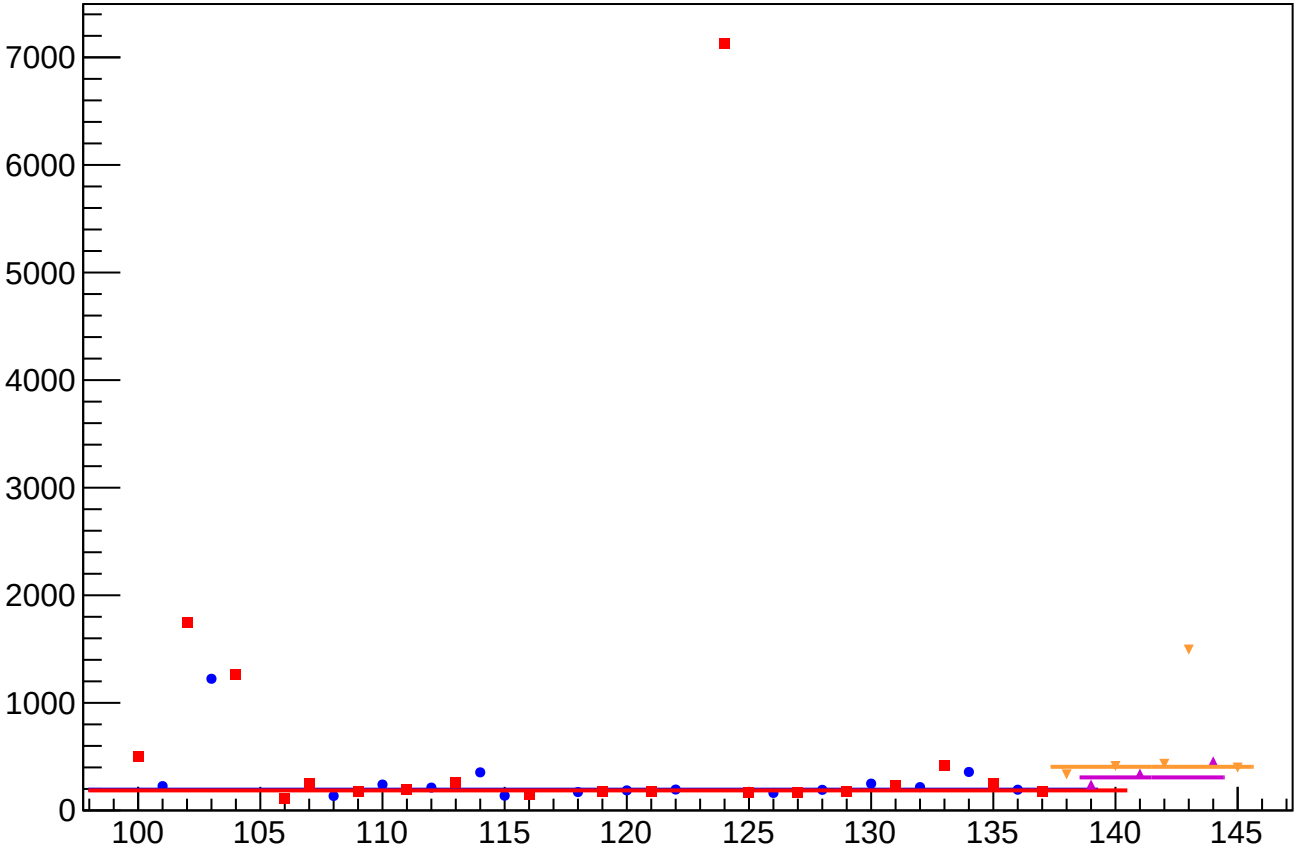
Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.043+/-0.072 $\chi^2$/NDF:19.5/18

Out: 0.094+/-0.075 $\chi^2$/NDF:32.2/23

All: 0.023+/-0.052 $\chi^2$/NDF: 53.4/42

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 193.248+/-0.055 $\chi^2$/NDF: 1408397.0/15

Left Out: 405.737+/-0.163 $\chi^2$/NDF:934824.2/4

Right Out: 186.379+/-0.056 $\chi^2$/NDF: 2479083.9/18

Left In: 307.345+/-0.141 $\chi^2$/NDF:325478.2/2

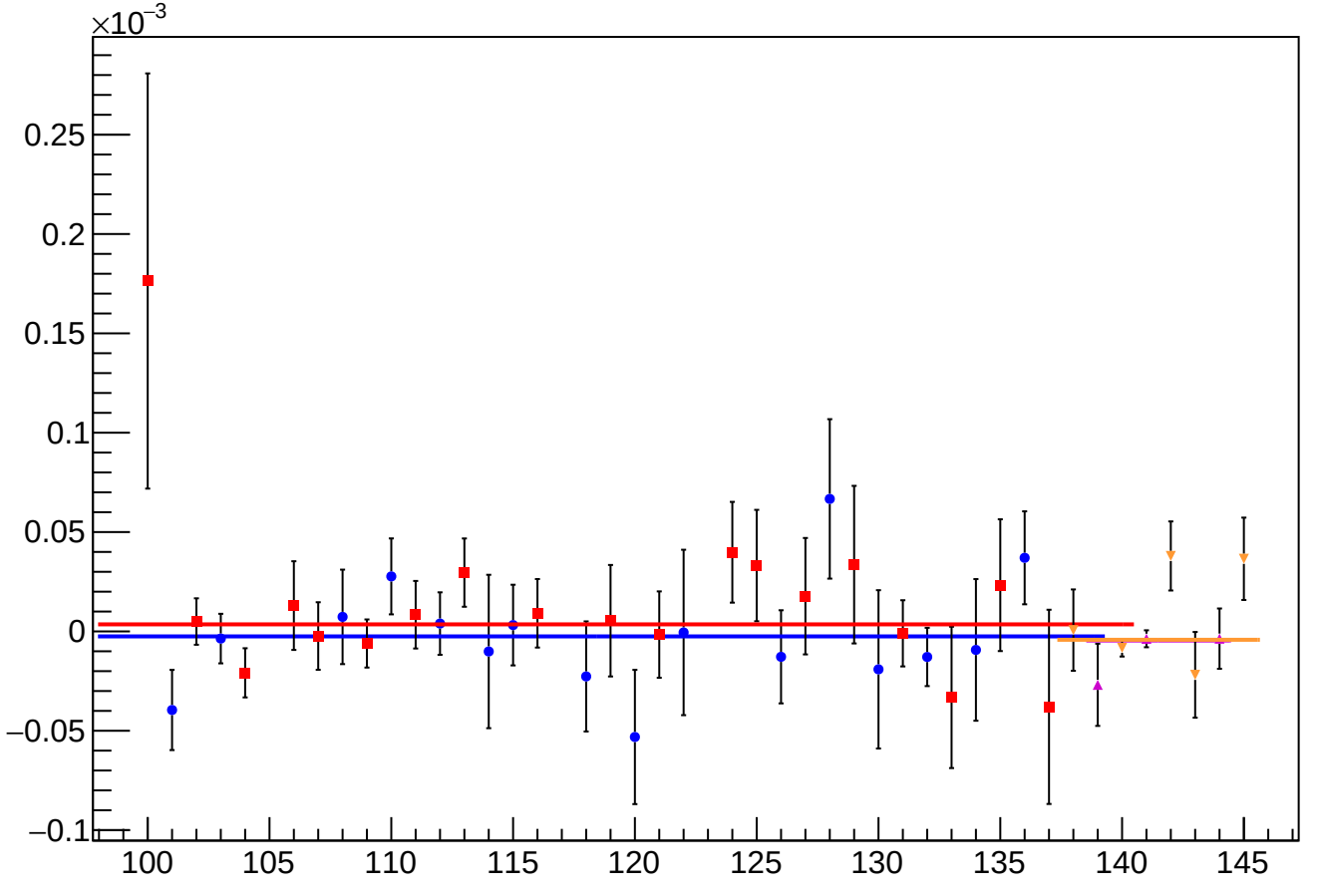
Left: 349.435+/-0.107 $\chi^2$/NDF: 1468295.8/7

Right: 189.859+/-0.039 $\chi^2$/NDF: 3895183.9/34

In: 208.287+/-0.051 $\chi^2$/NDF:2301505.6/18

Out: 209.275+/-0.053 $\chi^2$/NDF:5032004.2/23

All: 208.767+/-0.037 $\chi^2$/NDF: 7333690.5/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:11.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.2/2

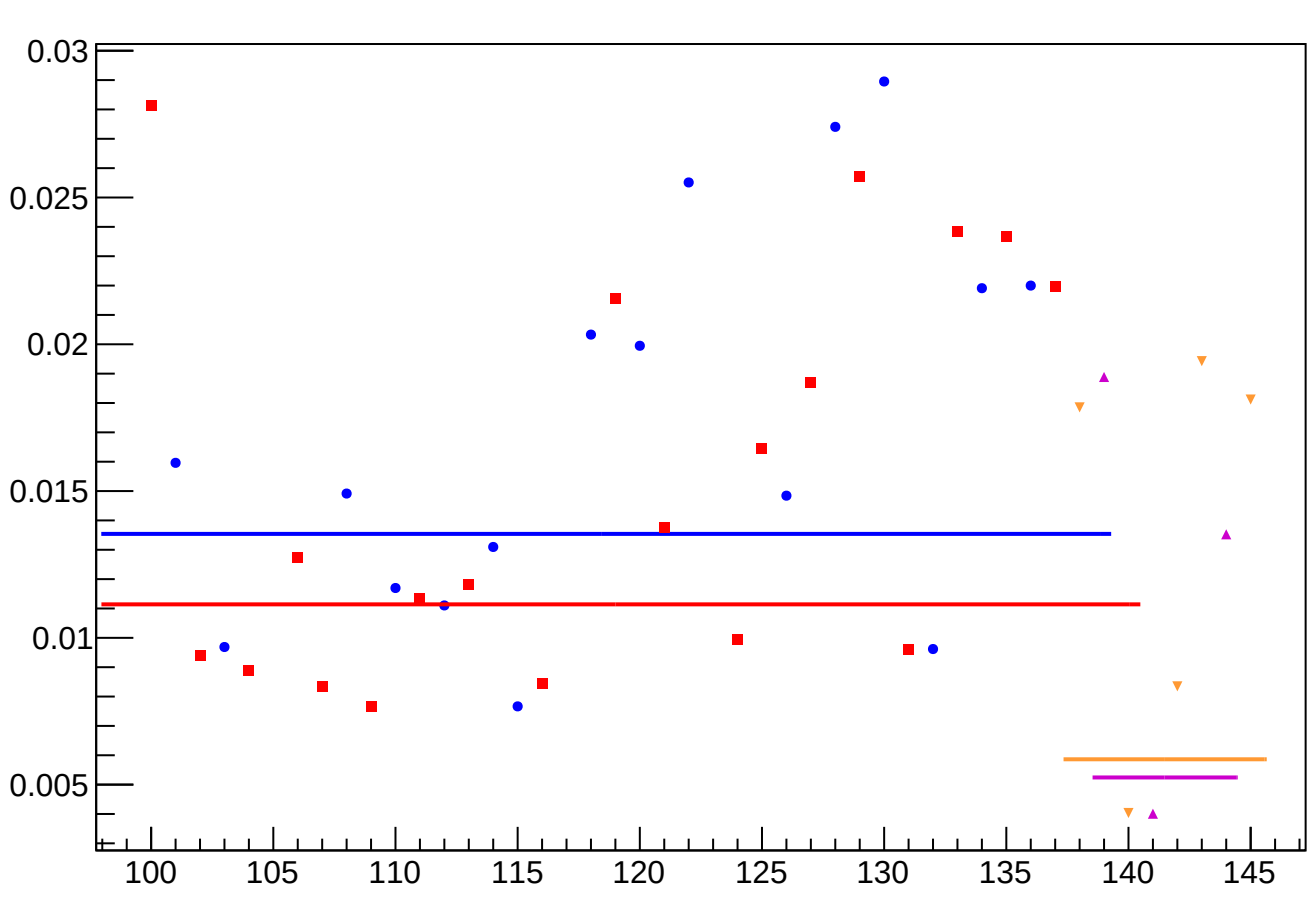
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 32.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:29.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 46.9/42




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1877615.1/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:2563176.7/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 1887740.8/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:1633422.8/2

Left: 0.006+/-0.000 $\chi^2$/NDF: 4220251.1/7

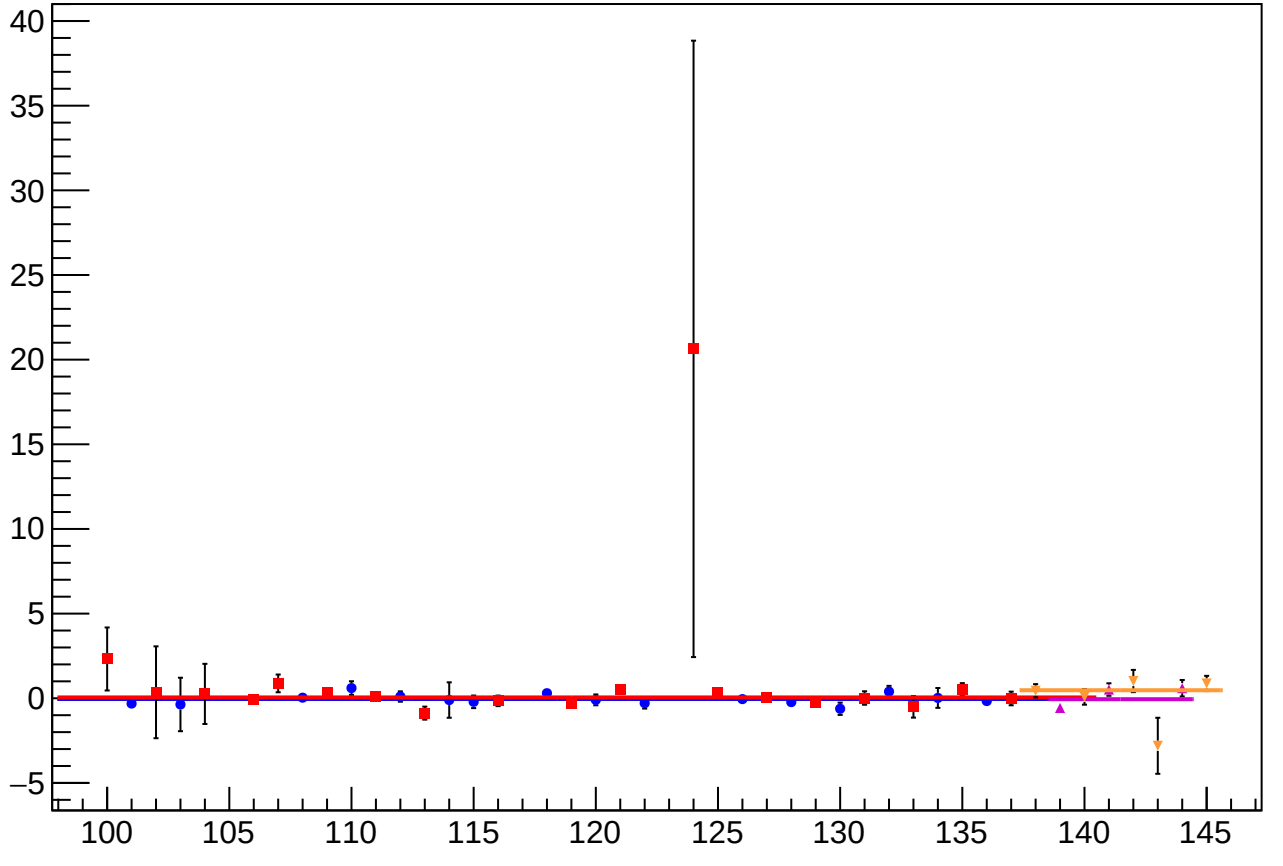
Right: 0.012+/-0.000 $\chi^2$/NDF: 3997435.7/34

In: 0.008+/-0.000 $\chi^2$/NDF:6506802.5/18

Out: 0.008+/-0.000 $\chi^2$/NDF:5994780.1/23

All: 0.008+/-0.000 $\chi^2$/NDF: 12501876.3/42

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: 0.474+/-0.231 $\chi^2$/NDF:6.1/4

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.055+/-0.200 $\chi^2$/NDF:7.8/2

Left: 0.171+/-0.151 $\chi^2$/NDF: 16.9/7

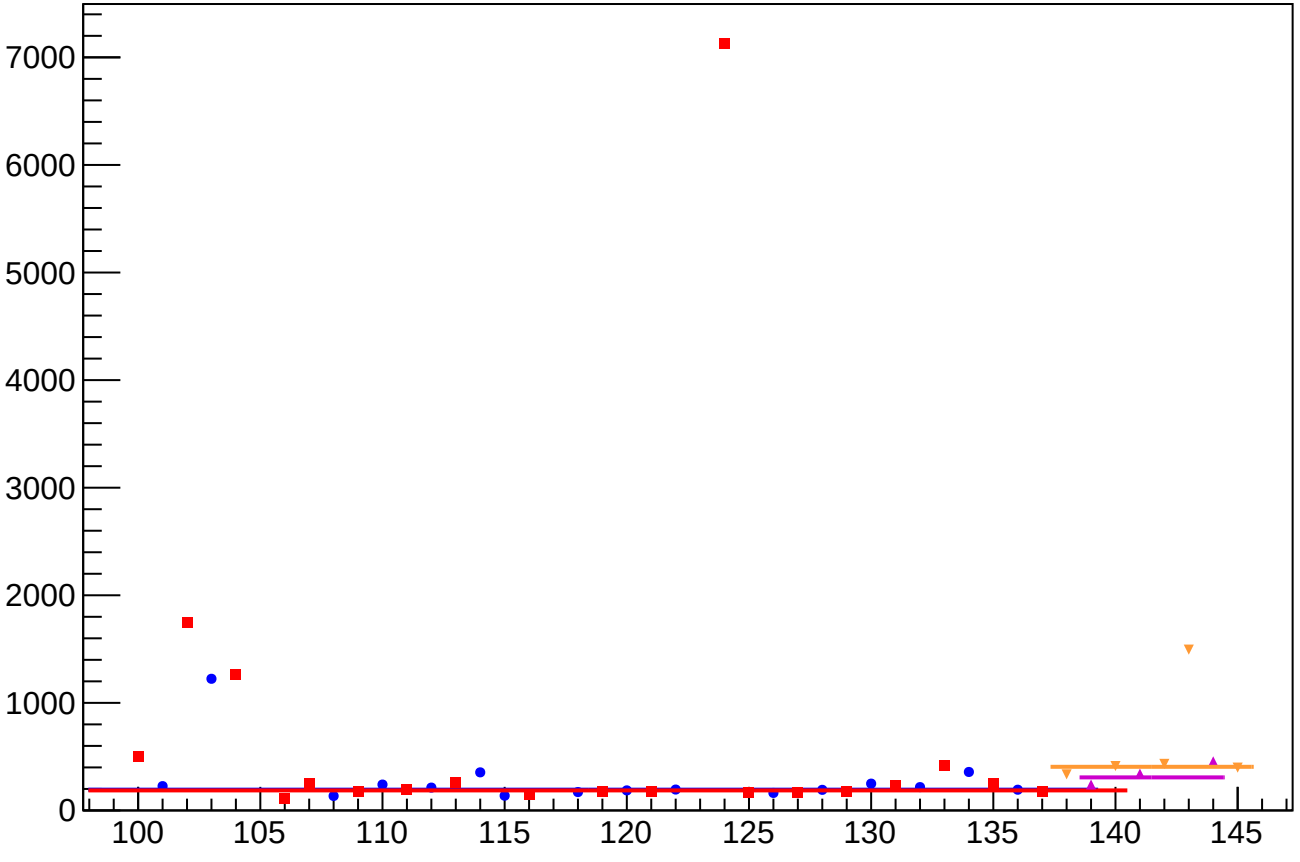
Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.043+/-0.072 $\chi^2$/NDF:19.5/18

Out: 0.094+/-0.075 $\chi^2$/NDF:32.2/23

All: 0.023+/-0.052 $\chi^2$/NDF: 53.4/42

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: 405.739+/-0.163 $\chi^2$/NDF:934814.0/4

Right Out: 186.376+/-0.056 $\chi^2$/NDF: 2479113.1/18

Left In: 307.349+/-0.141 $\chi^2$/NDF:325462.4/2

Left: 349.439+/-0.107 $\chi^2$/NDF: 1468260.2/7

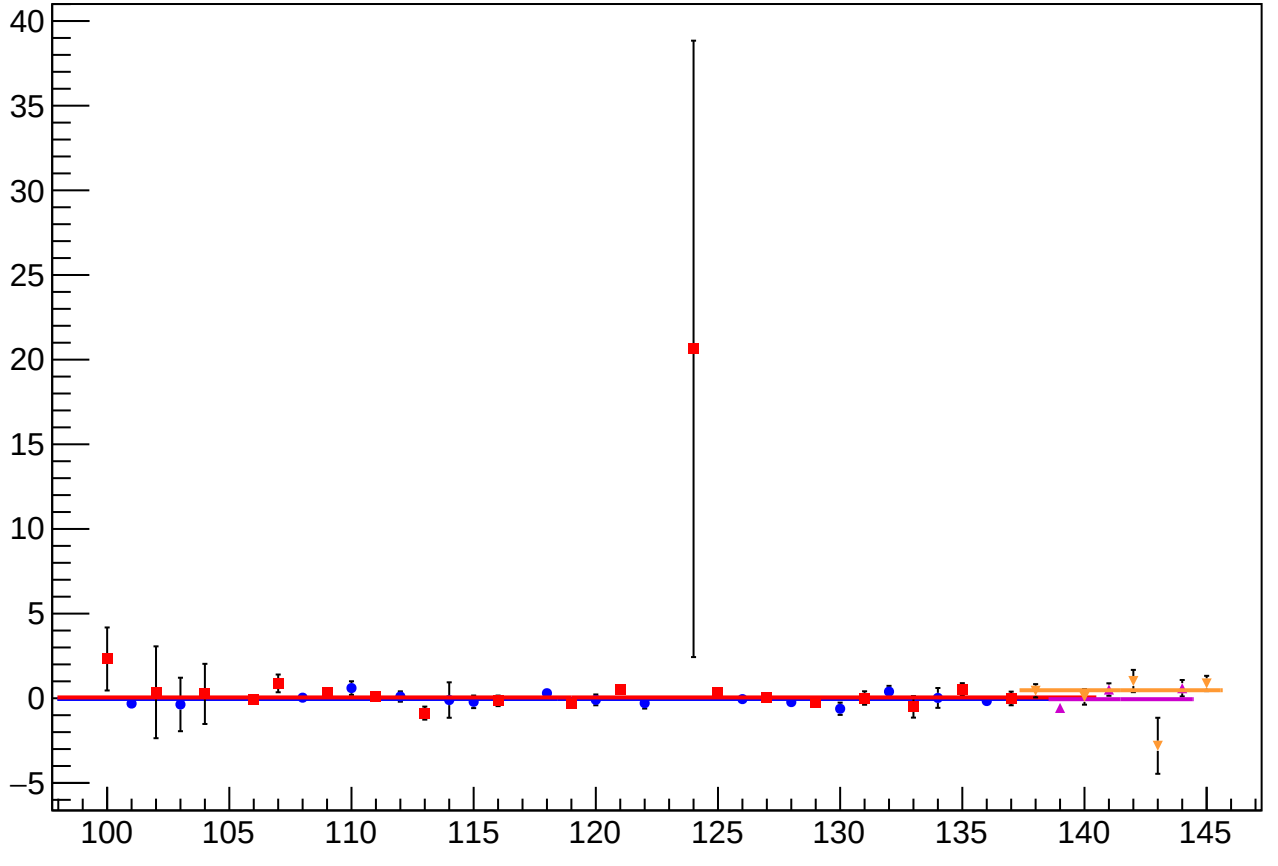
Right: 189.857+/-0.039 $\chi^2$/NDF: 3895208.3/34

In: 208.286+/-0.051 $\chi^2$/NDF:2301528.8/18

Out: 209.273+/-0.053 $\chi^2$/NDF:5032080.7/23

All: 208.765+/-0.037 $\chi^2$/NDF: 7333789.8/42

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: 0.474+/-0.231 $\chi^2$/NDF:6.1/4

Right Out: 0.049+/-0.079 $\chi^2$/NDF: 23.0/18

Left In: -0.055+/-0.200 $\chi^2$/NDF:7.8/2

Left: 0.171+/-0.151 $\chi^2$/NDF: 16.9/7

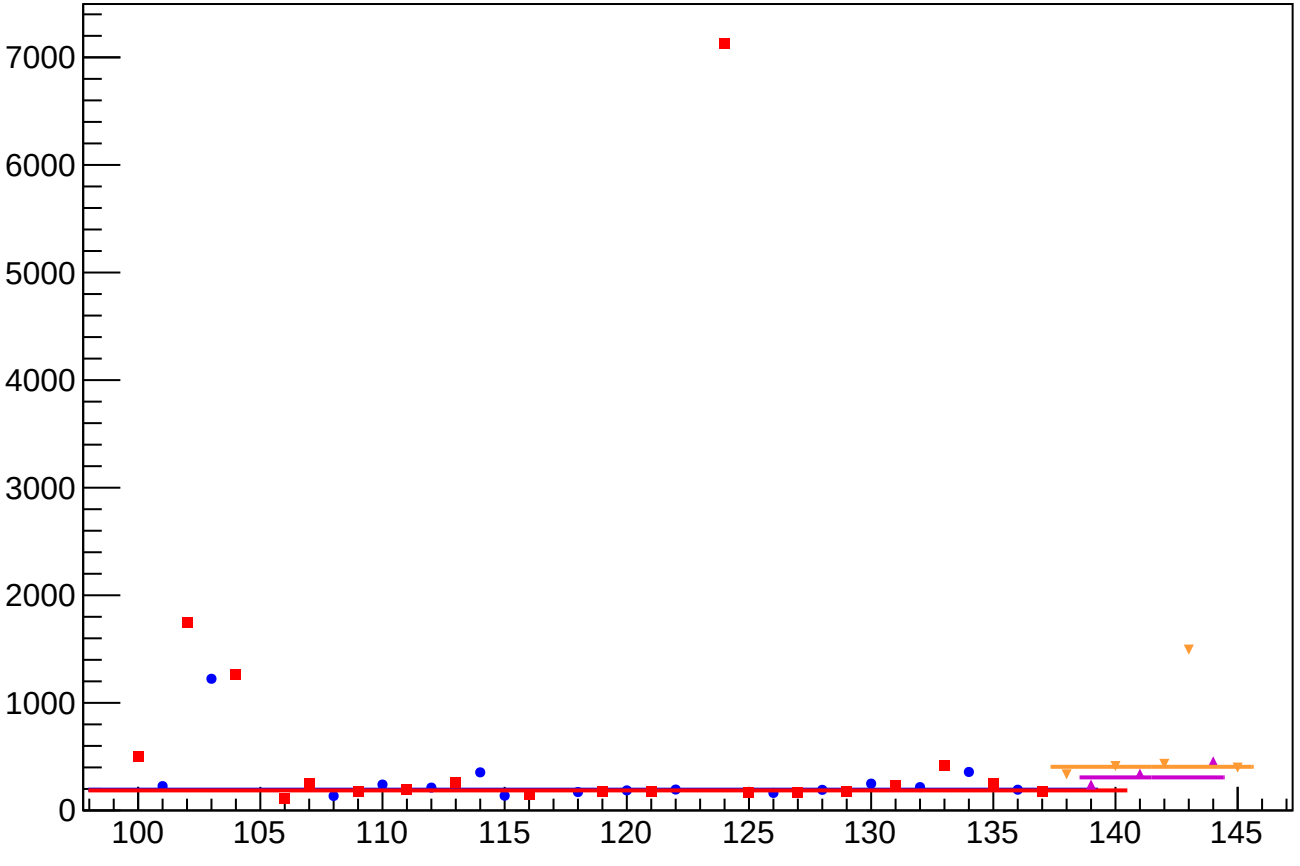
Right: 0.004+/-0.055 $\chi^2$/NDF: 35.4/34

In: -0.043+/-0.072 $\chi^2$/NDF:19.5/18

Out: 0.094+/-0.075 $\chi^2$/NDF:32.2/23

All: 0.023+/-0.052 $\chi^2$/NDF: 53.4/42

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: 405.739+/-0.163 $\chi^2$/NDF:934814.0/4

Right Out: 186.376+/-0.056 $\chi^2$/NDF: 2479113.1/18

Left In: 307.349+/-0.141 $\chi^2$/NDF:325462.4/2

Left: 349.439+/-0.107 $\chi^2$/NDF: 1468260.2/7

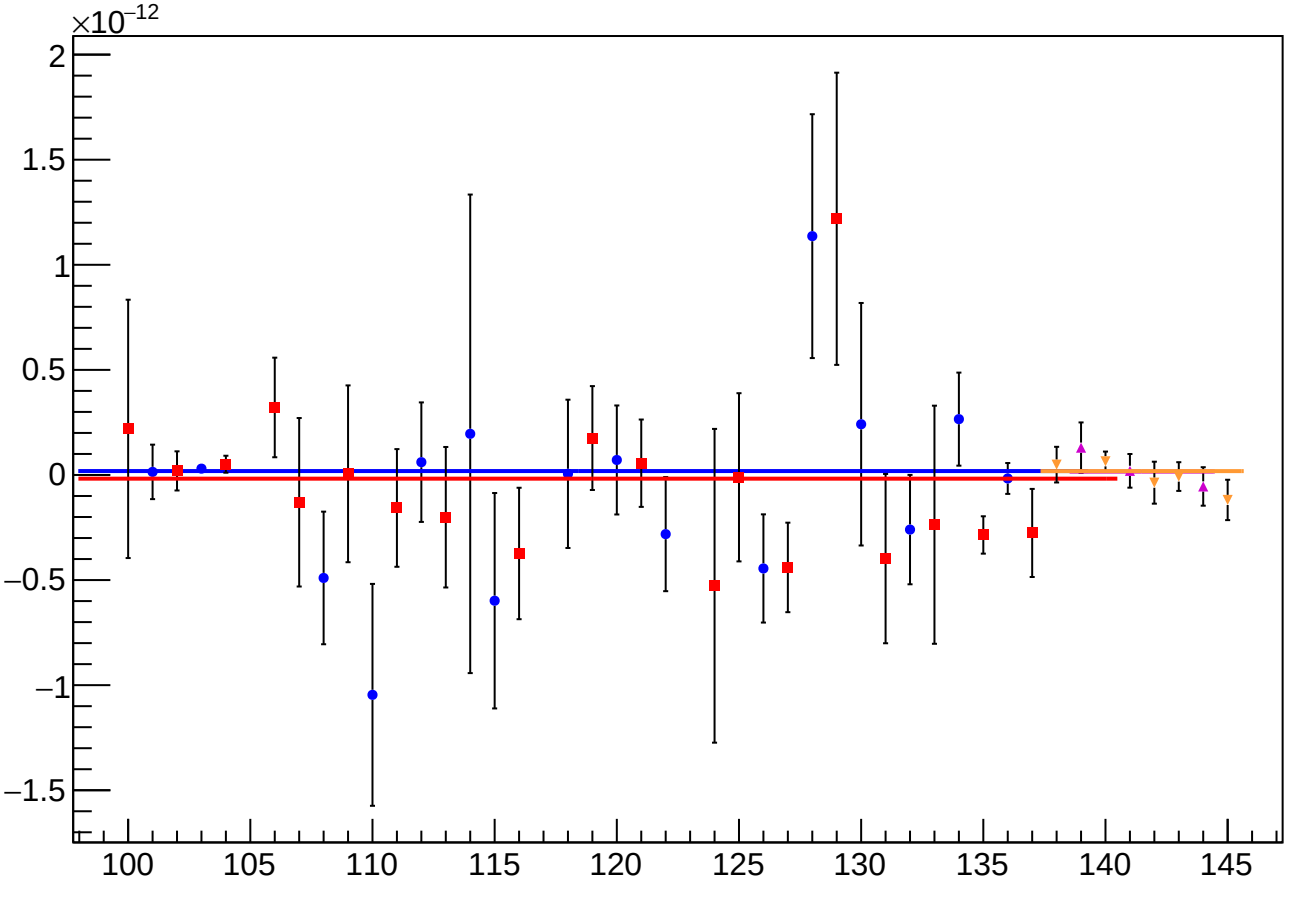
Right: 189.857+/-0.039 $\chi^2$/NDF: 3895208.3/34

In: 208.286+/-0.051 $\chi^2$/NDF:2301528.8/18

Out: 209.273+/-0.053 $\chi^2$/NDF:5032080.7/23

All: 208.765+/-0.037 $\chi^2$/NDF: 7333789.8/42

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.5/2

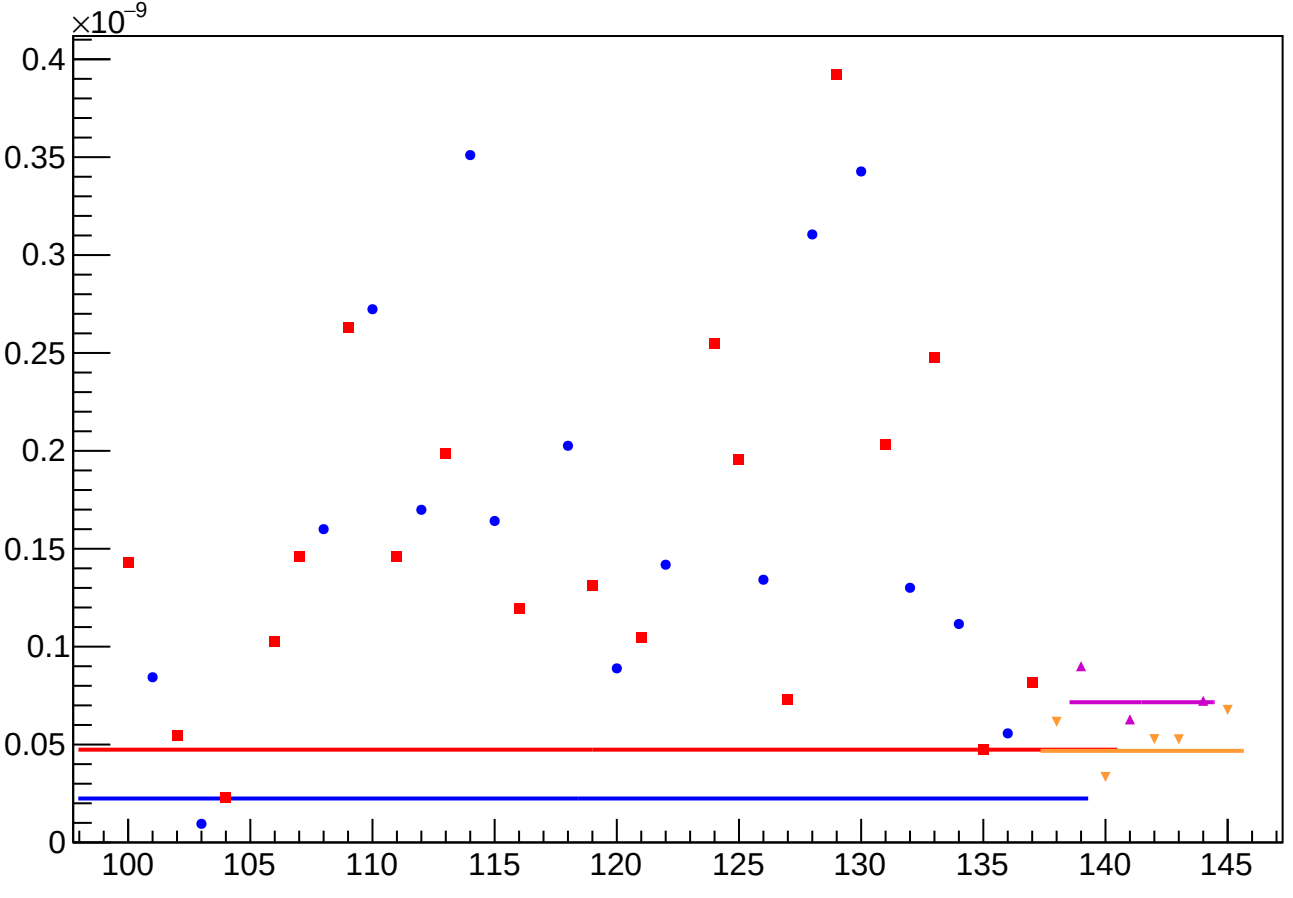
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.1/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 47.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:31.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 52.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6410173.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:343283.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4236050.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:71039.8/2

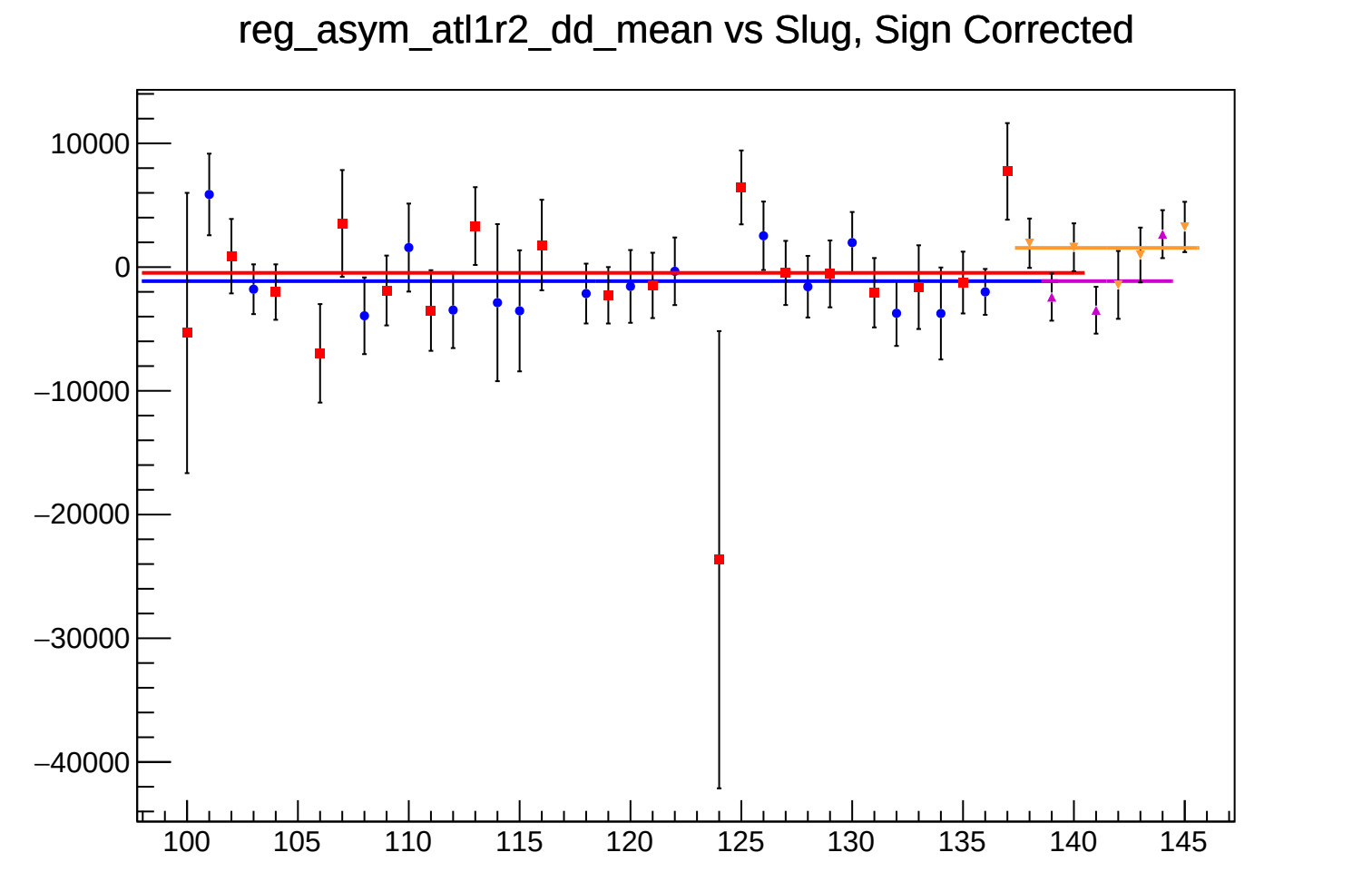
Left: 0.000+/-0.000 $\chi^2$/NDF: 732687.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 11534651.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:7935740.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4579701.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 13301738.2/42




Right In: -1134.630+/-693.782 $\chi^2$/NDF: 12.2/15

Left Out: 1555.128+/-955.313 $\chi^2$/NDF:2.0/4

Right Out: -465.519+/-705.926 $\chi^2$/NDF: 20.0/18

Left In: -1132.869+/-1104.192 $\chi^2$/NDF:5.8/2

Left: 404.431+/-722.455 $\chi^2$/NDF: 11.2/7

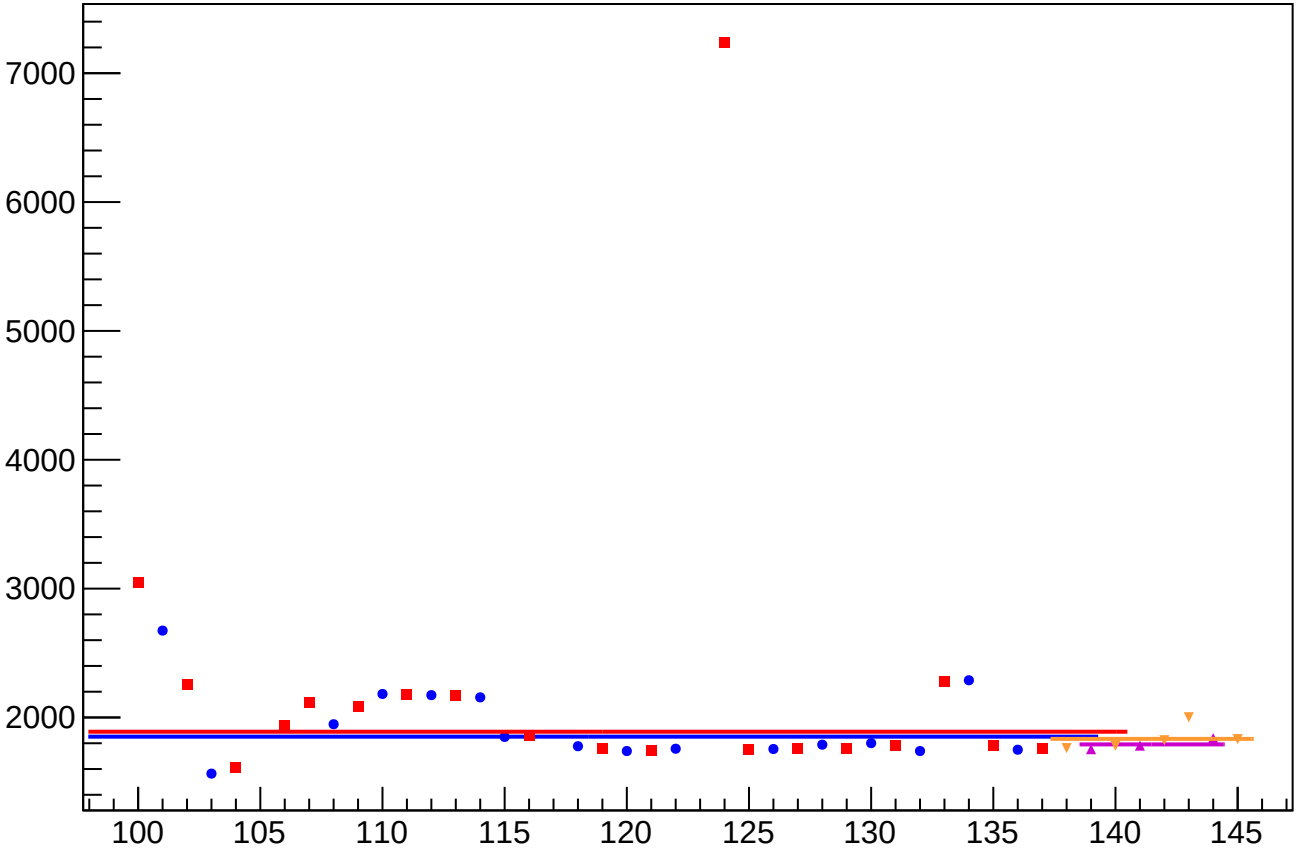
Right: -805.879+/-494.815 $\chi^2$/NDF: 32.7/34

In: -1134.131+/-587.448 $\chi^2$/NDF:18.1/18

Out: 248.148+/-567.738 $\chi^2$/NDF:24.9/23

All: -419.414+/-408.242 $\chi^2$/NDF: 45.8/42

# reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1851.130+/-0.491 $\chi^2$/NDF: 259981.6/15

Left Out: 1833.918+/-0.676 $\chi^2$/NDF:15594.2/4

Right Out: 1889.528+/-0.498 $\chi^2$/NDF: 358902.6/18

Left In: 1791.082+/-0.781 $\chi^2$/NDF:2048.5/2

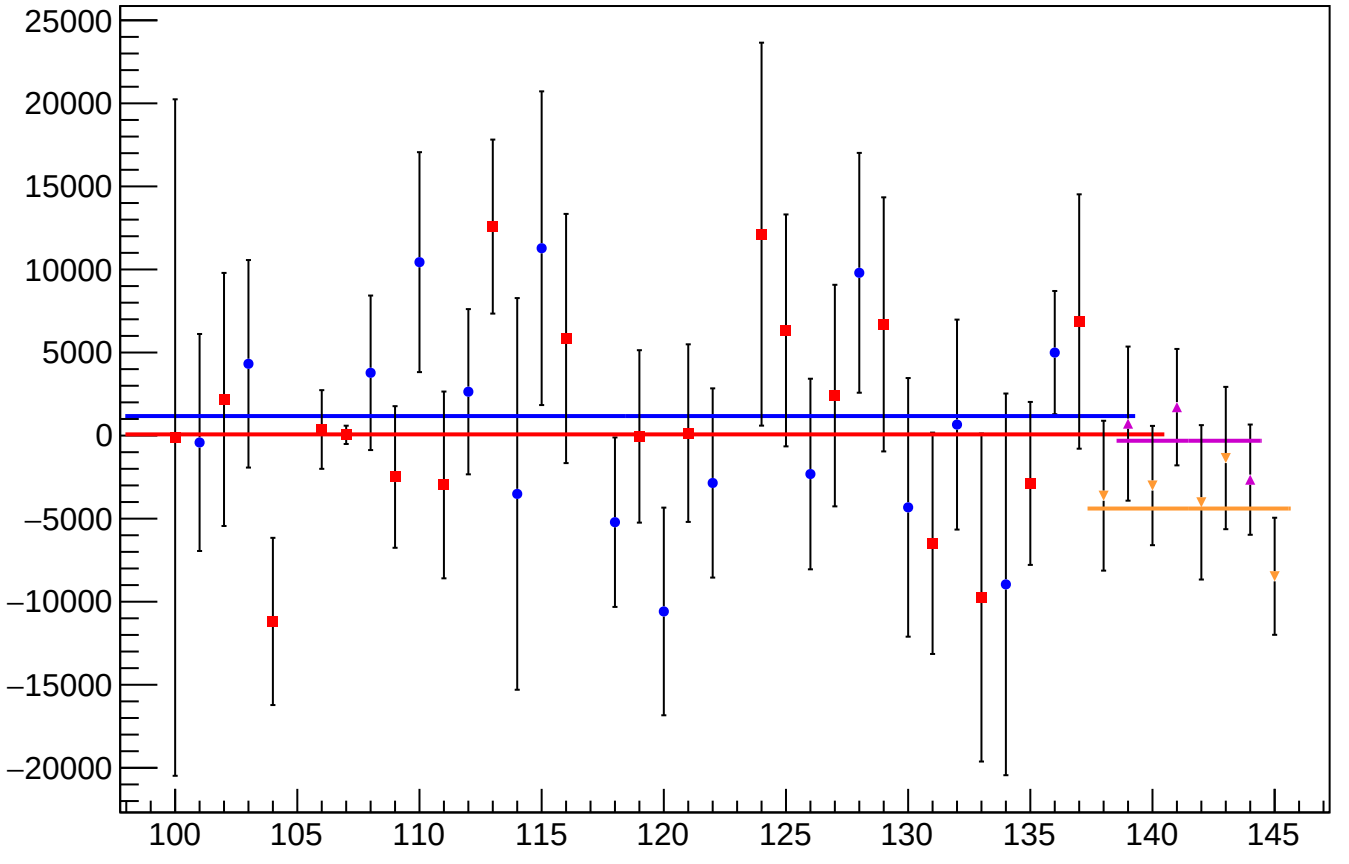
Left: 1815.581+/-0.511 $\chi^2$/NDF: 19364.2/7

Right: 1870.040+/-0.349 $\chi^2$/NDF: 621901.2/34

In: 1834.134+/-0.415 $\chi^2$/NDF:266270.8/18

Out: 1869.946+/-0.401 $\chi^2$/NDF:378887.4/23

All: 1852.678+/-0.288 $\chi^2$/NDF: 649007.0/42




Right In: 1175.430+/-1502.128 $\chi^2$/NDF: 13.7/15

Left Out: -4391.516+/-1801.744 $\chi^2$/NDF:2.0/4

Right Out: 72.681+/-505.693 $\chi^2$/NDF: 17.9/18

Left In: -311.441+/-2138.168 $\chi^2$/NDF:0.9/2

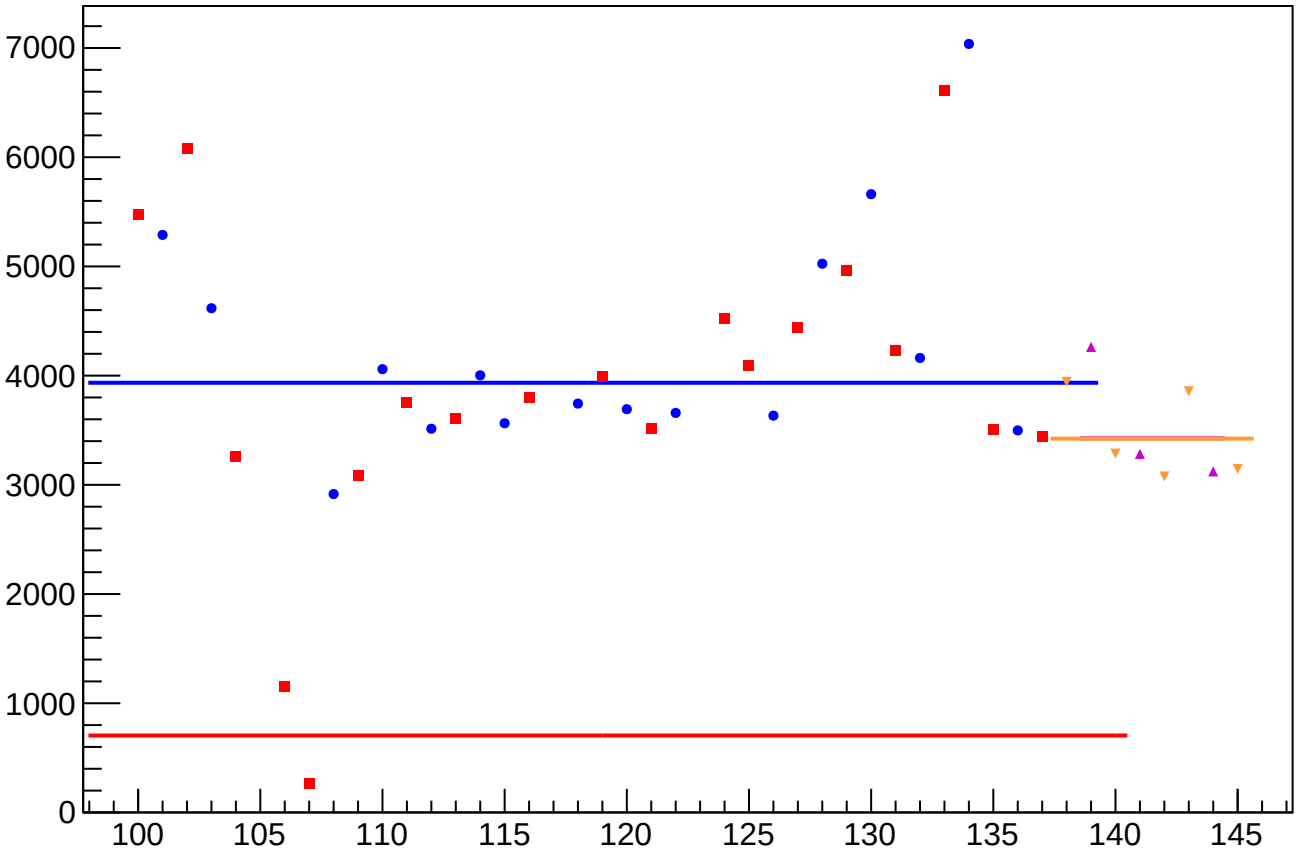
Left: -2697.349+/-1377.799 $\chi^2$/NDF: 5.0/7

Right: 184.938+/-479.263 $\chi^2$/NDF: 32.1/34

In: 684.088+/-1229.129 $\chi^2$/NDF:14.9/18

Out: -253.306+/-486.880 $\chi^2$/NDF:25.6/23

All: -126.169+/-452.660 $\chi^2$/NDF: 41.1/42




Right In: 3934.718+/-1.062 $\chi^2$/NDF: 560125.6/15

Left Out: 3423.169+/-1.274 $\chi^2$/NDF:73595.4/4

Right Out: 704.385+/-0.358 $\chi^2$/NDF: 10618643.5/18

Left In: 3425.533+/-1.512 $\chi^2$/NDF:85027.0/2

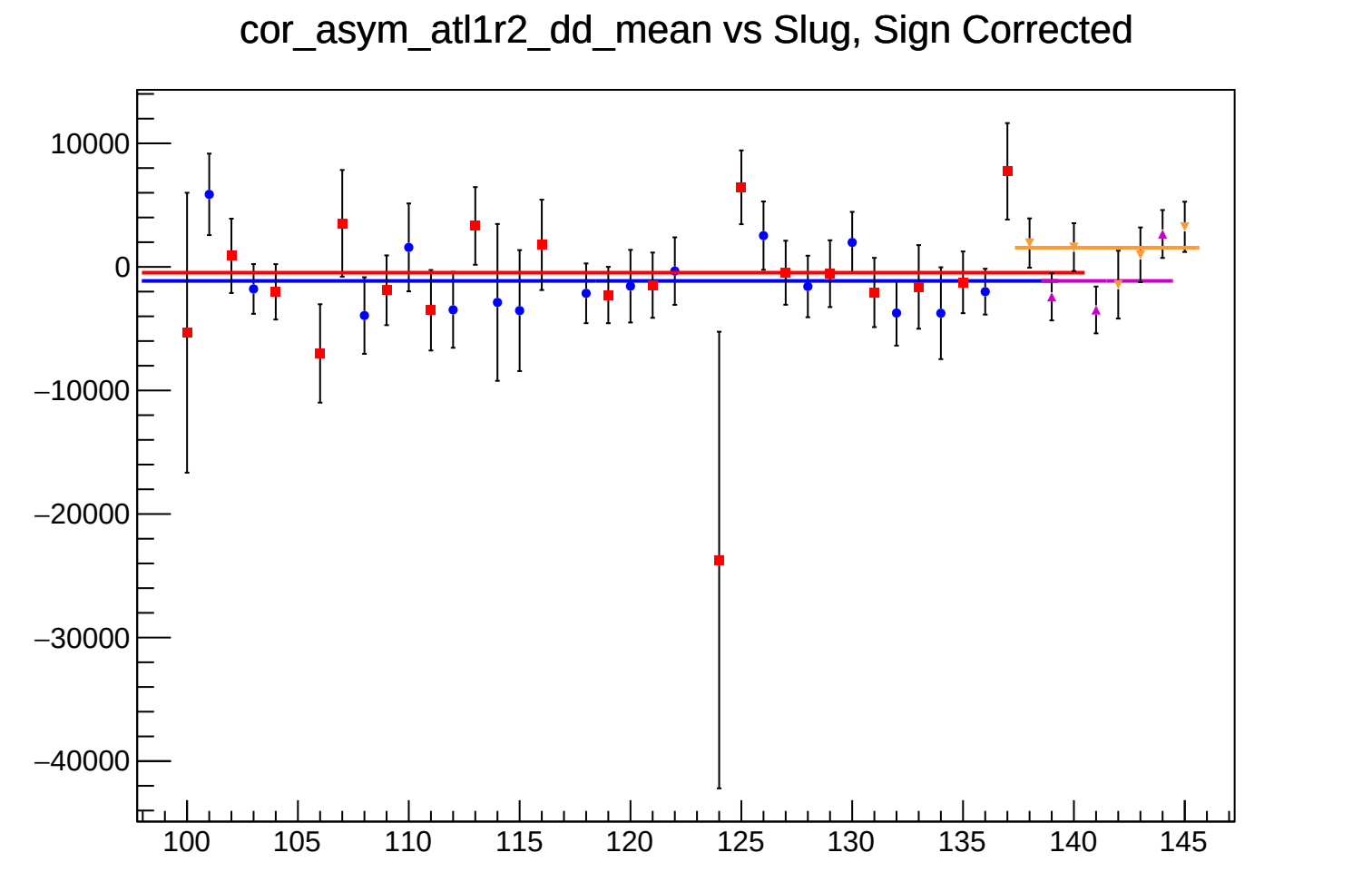
Left: 3424.150+/-0.974 $\chi^2$/NDF: 158623.9/7

Right: 1033.223+/-0.339 $\chi^2$/NDF: 19486549.2/34

In: 3766.456+/-0.869 $\chi^2$/NDF:721093.9/18

Out: 902.918+/-0.344 $\chi^2$/NDF:14913695.9/23

All: 1291.294+/-0.320 $\chi^2$/NDF: 25017796.2/4




Right In: -1134.203+/-693.782 $\chi^2$/NDF: 12.2/15

Left Out: 1555.203+/-955.313 $\chi^2$/NDF:2.0/4

Right Out: -465.899+/-705.928 $\chi^2$/NDF: 20.0/18

Left In: -1132.909+/-1104.192 $\chi^2$/NDF:5.8/2

Left: 404.457+/-722.455 $\chi^2$/NDF: 11.2/7

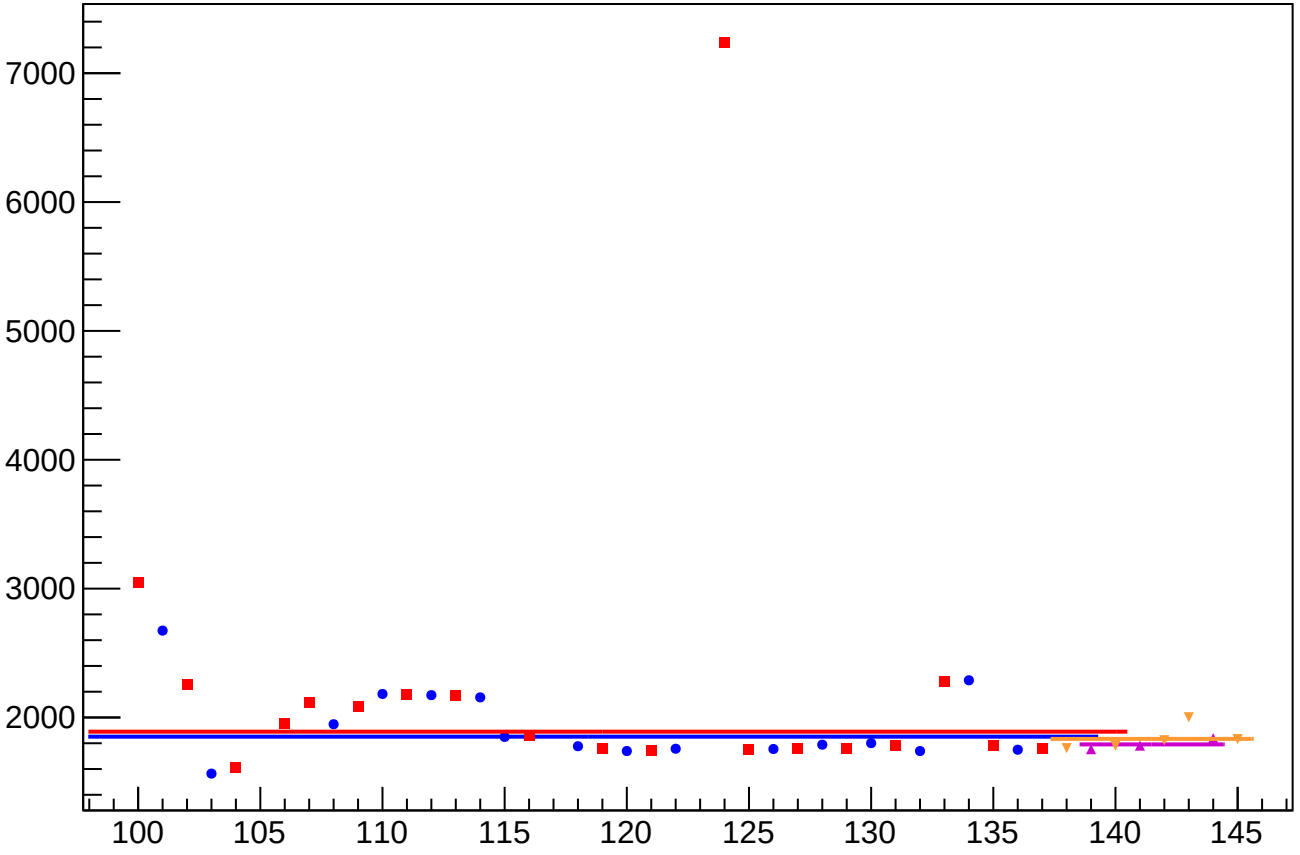
Right: -805.849+/-494.816 $\chi^2$/NDF: 32.7/34

In: -1133.837+/-587.449 $\chi^2$/NDF:18.1/18

Out: 247.931+/-567.739 $\chi^2$/NDF:24.9/23

All: -419.385+/-408.242 $\chi^2$/NDF: 45.9/42

# cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1851.131+/-0.491 $\chi^2$/NDF: 259980.7/15

Left Out: 1833.918+/-0.676 $\chi^2$/NDF:15594.2/4

Right Out: 1889.986+/-0.498 $\chi^2$/NDF: 359122.3/18

Left In: 1791.082+/-0.781 $\chi^2$/NDF:2048.5/2

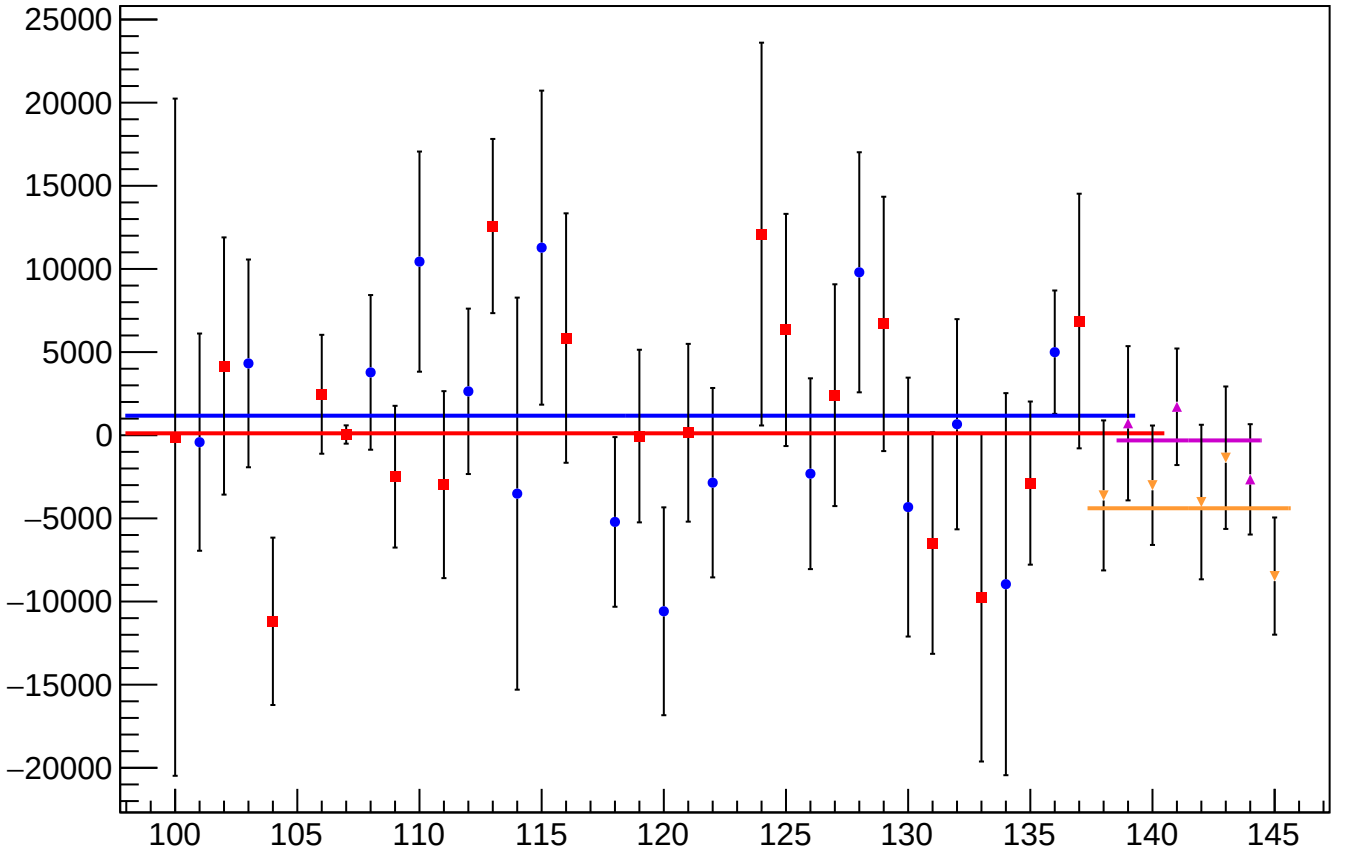
Left: 1815.581+/-0.511 $\chi^2$/NDF: 19364.2/7

Right: 1870.262+/-0.350 $\chi^2$/NDF: 622191.7/34

In: 1834.134+/-0.415 $\chi^2$/NDF:266270.0/18

Out: 1870.237+/-0.401 $\chi^2$/NDF:379179.0/23

All: 1852.826+/-0.288 $\chi^2$/NDF: 649360.0/42




Right In: 1175.408+/-1502.134 $\chi^2$/NDF: 13.7/15

Left Out: -4391.407+/-1801.736 $\chi^2$/NDF:2.0/4

Right Out: 115.917+/-512.289 $\chi^2$/NDF: 18.6/18

Left In: -311.420+/-2138.166 $\chi^2$/NDF:0.9/2

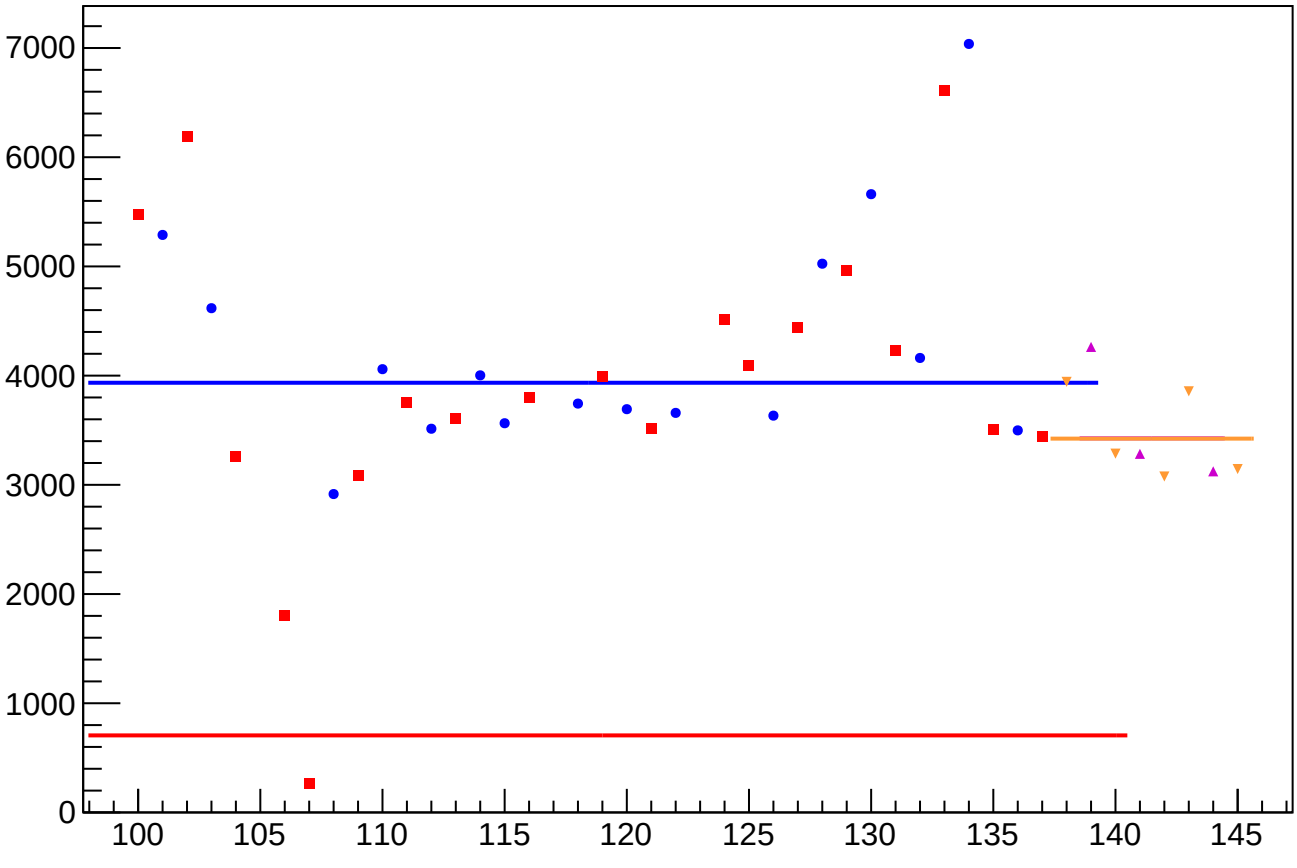
Left: -2697.283+/-1377.795 $\chi^2$/NDF: 5.0/7

Right: 226.306+/-484.867 $\chi^2$/NDF: 32.7/34

In: 684.076+/-1229.131 $\chi^2$/NDF:14.9/18

Out: -221.218+/-492.758 $\chi^2$/NDF:26.4/23

All: -95.866+/-457.372 $\chi^2$/NDF: 41.8/42




Right In: 3934.727+/-1.062 $\chi^2$/NDF: 560149.8/15

Left Out: 3423.154+/-1.274 $\chi^2$/NDF:73597.8/4

Right Out: 705.620+/-0.362 $\chi^2$/NDF: 10747208.1/18

Left In: 3425.530+/-1.512 $\chi^2$/NDF:85026.1/2

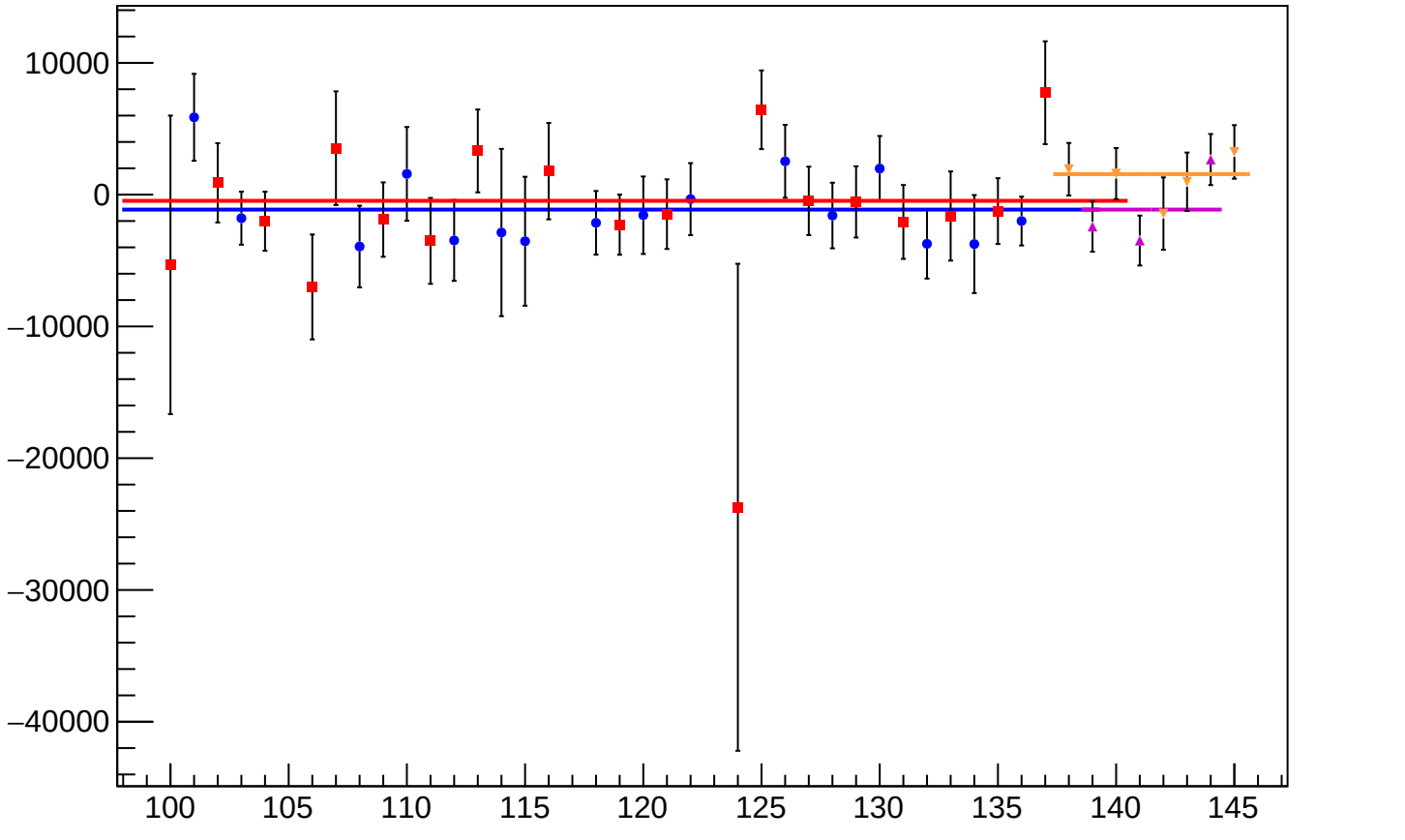
Left: 3424.141+/-0.974 $\chi^2$/NDF: 158625.4/7

Right: 1042.063+/-0.343 $\chi^2$/NDF: 19586646.8/34

In: 3766.460+/-0.869 $\chi^2$/NDF:721120.6/18

Out: 908.884+/-0.348 $\chi^2$/NDF:15030342.9/23

All: 1304.561+/-0.323 $\chi^2$/NDF: 25064719.9/4




Right In: -1134.203+/-693.782 $\chi^2$/NDF: 12.2/15

Left Out: 1555.203+/-955.313 $\chi^2$/NDF:2.0/4

Right Out: -465.899+/-705.928 $\chi^2$/NDF: 20.0/18

Left In: -1132.909+/-1104.192 $\chi^2$/NDF:5.8/2

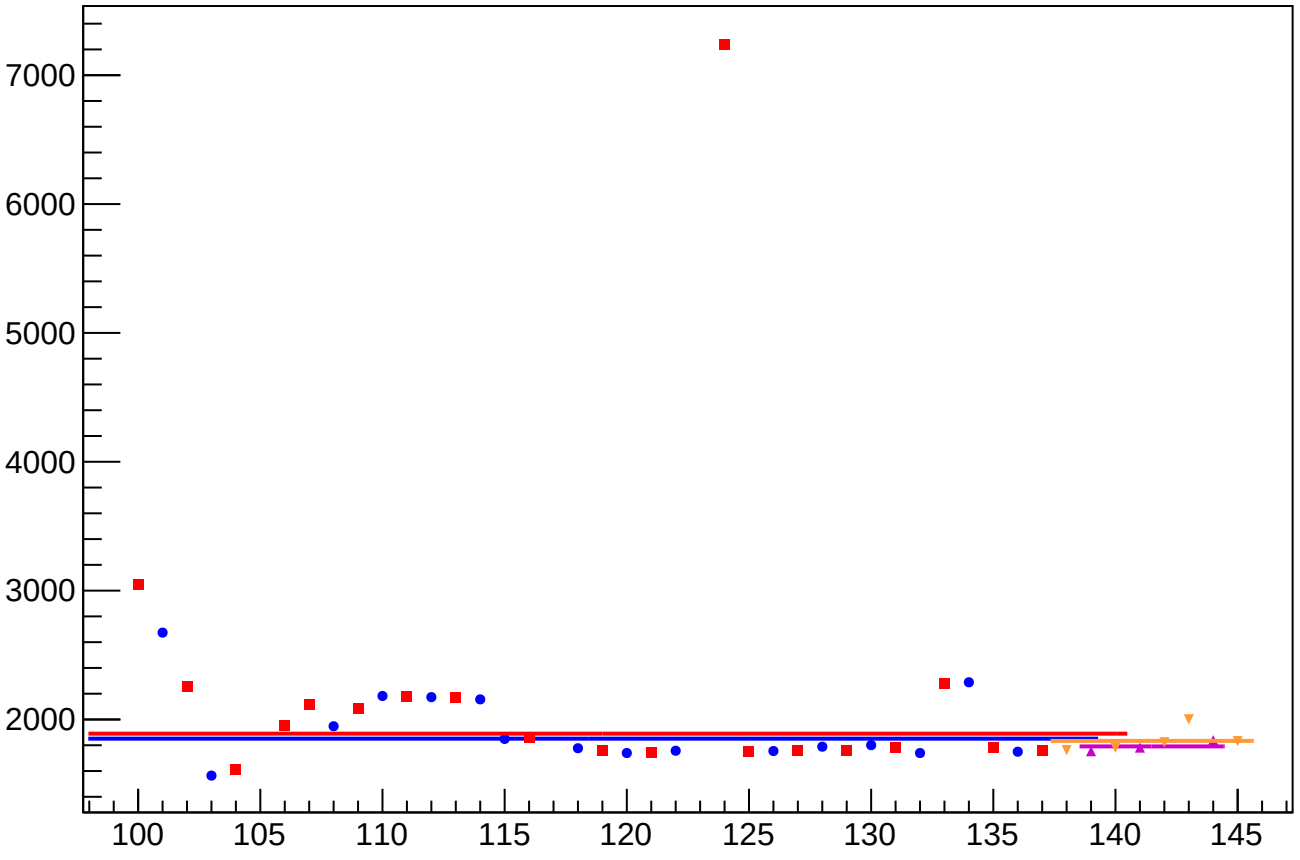
Left: 404.457+/-722.455 $\chi^2$/NDF: 11.2/7

Right: -805.849+/-494.816 $\chi^2$/NDF: 32.7/34

In: -1133.837+/-587.449 $\chi^2$/NDF:18.1/18

Out: 247.931+/-567.739 $\chi^2$/NDF:24.9/23

All: -419.385+/-408.242 $\chi^2$/NDF: 45.9/42




Right In: 1851.131+/-0.491 $\chi^2$/NDF: 259980.7/15

Left Out: 1833.918+/-0.676 $\chi^2$/NDF:15594.2/4

Right Out: 1889.986+/-0.498 $\chi^2$/NDF: 359122.3/18

Left In: 1791.082+/-0.781 $\chi^2$/NDF:2048.5/2

Left: 1815.581+/-0.511 $\chi^2$/NDF: 19364.2/7

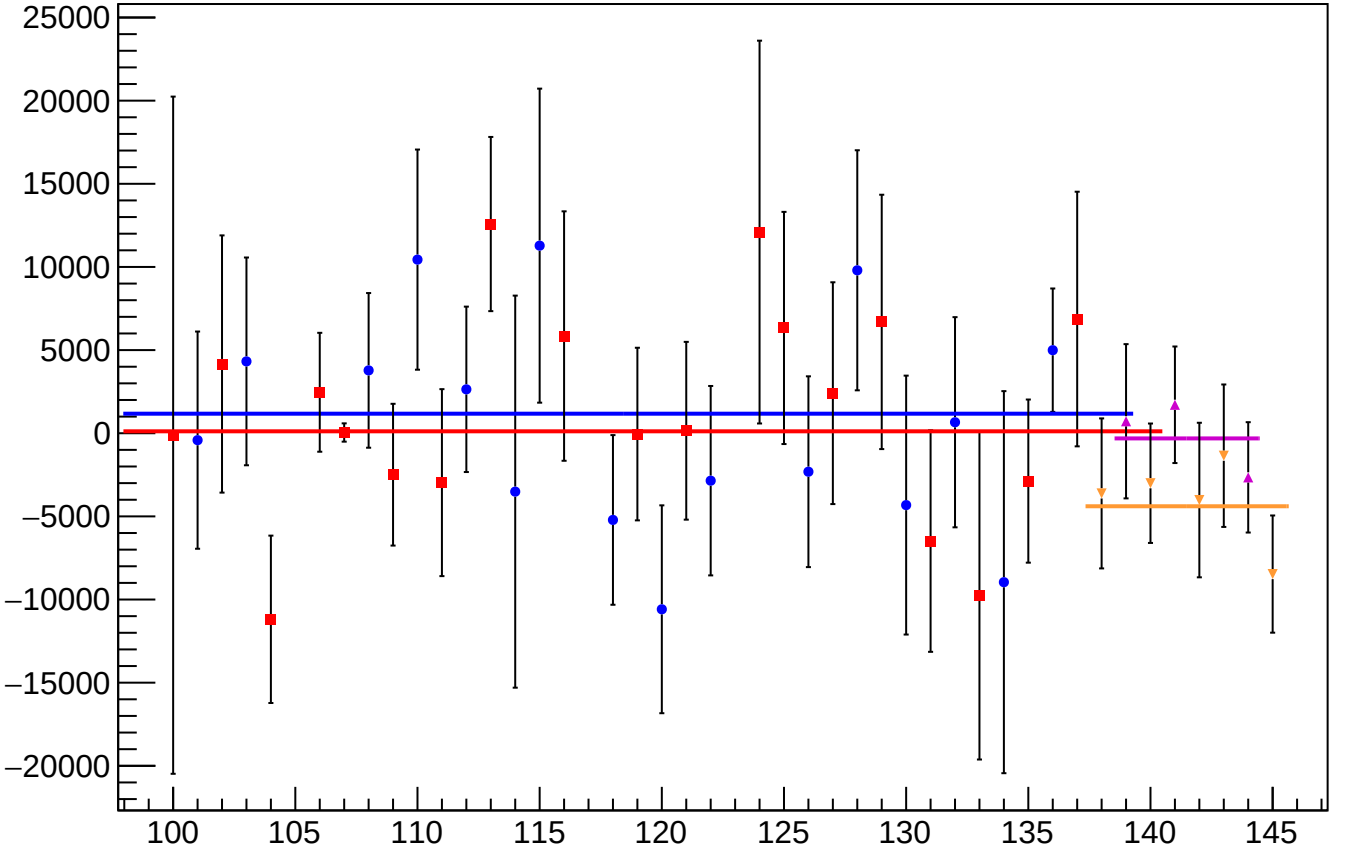
Right: 1870.262+/-0.350 $\chi^2$/NDF: 622191.7/34

In: 1834.134+/-0.415 $\chi^2$/NDF:266270.0/18

Out: 1870.237+/-0.401 $\chi^2$/NDF:379179.0/23

All: 1852.826+/-0.288 $\chi^2$/NDF: 649360.0/42

asym_atl1r2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 1175.408+/-1502.134 $\chi^2$/NDF: 13.7/15

Left Out: -4391.407+/-1801.736 $\chi^2$/NDF:2.0/4

Right Out: 115.917+/-512.289 $\chi^2$/NDF: 18.6/18

Left In: -311.420+/-2138.166 $\chi^2$/NDF:0.9/2

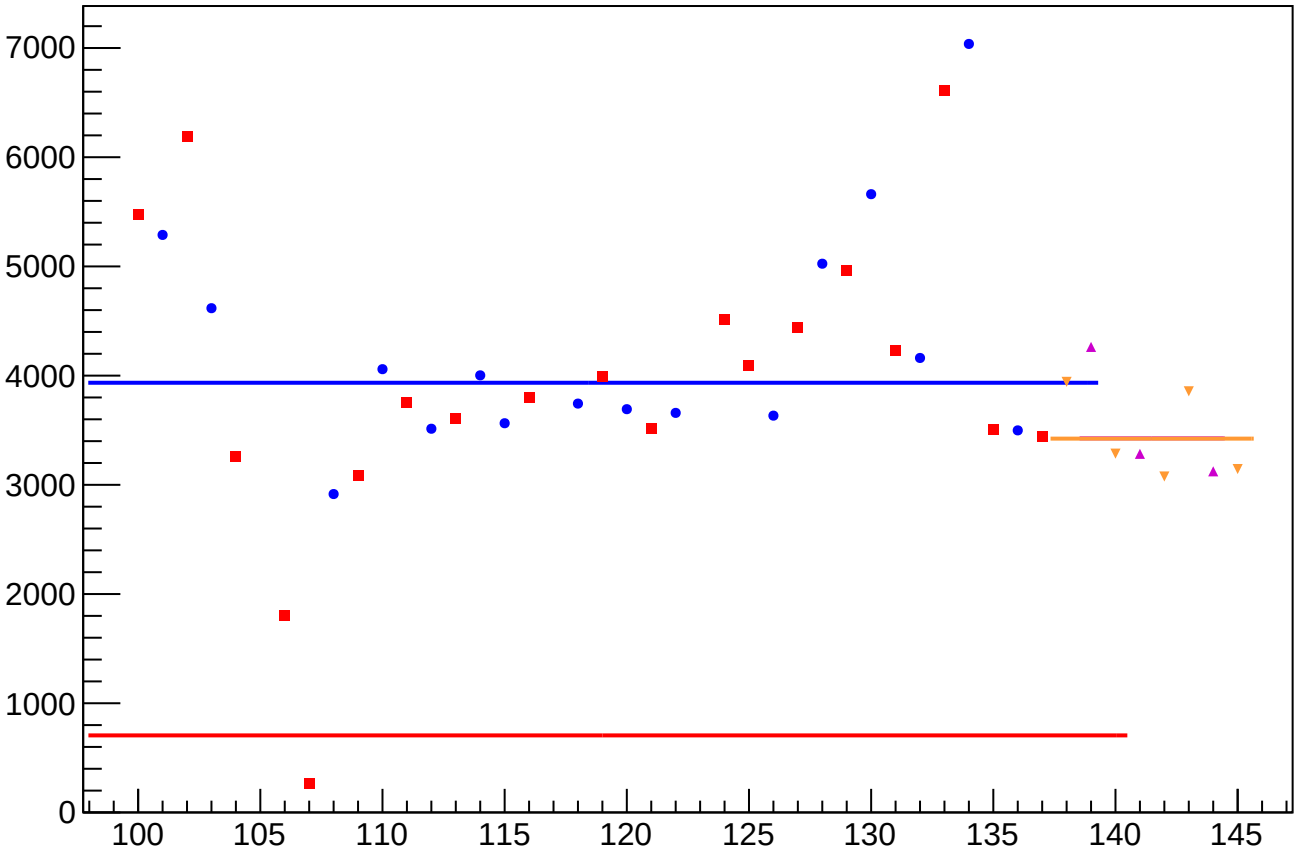
Left: -2697.283+/-1377.795 $\chi^2$/NDF: 5.0/7

Right: 226.306+/-484.867 $\chi^2$/NDF: 32.7/34

In: 684.076+/-1229.131 $\chi^2$/NDF:14.9/18

Out: -221.218+/-492.758 $\chi^2$/NDF:26.4/23

All: -95.866+/-457.372 $\chi^2$/NDF: 41.8/42




Right In: 3934.727+/-1.062 $\chi^2$/NDF: 560149.8/15

Left Out: 3423.154+/-1.274 $\chi^2$/NDF:73597.8/4

Right Out: 705.620+/-0.362 $\chi^2$/NDF: 10747208.1/18

Left In: 3425.530+/-1.512 $\chi^2$/NDF:85026.1/2

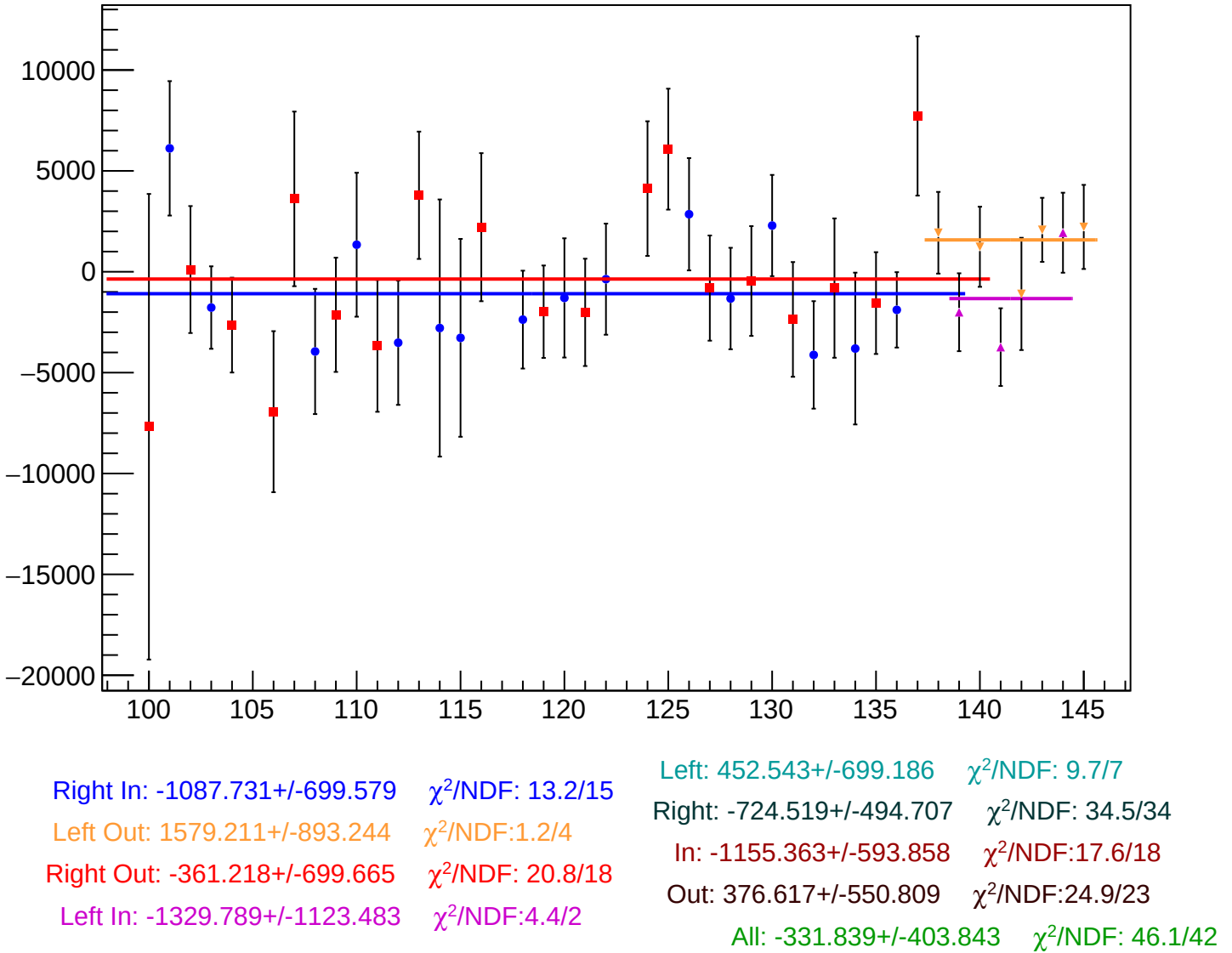
Left: 3424.141+/-0.974 $\chi^2$/NDF: 158625.4/7

Right: 1042.063+/-0.343 $\chi^2$/NDF: 19586646.8/34

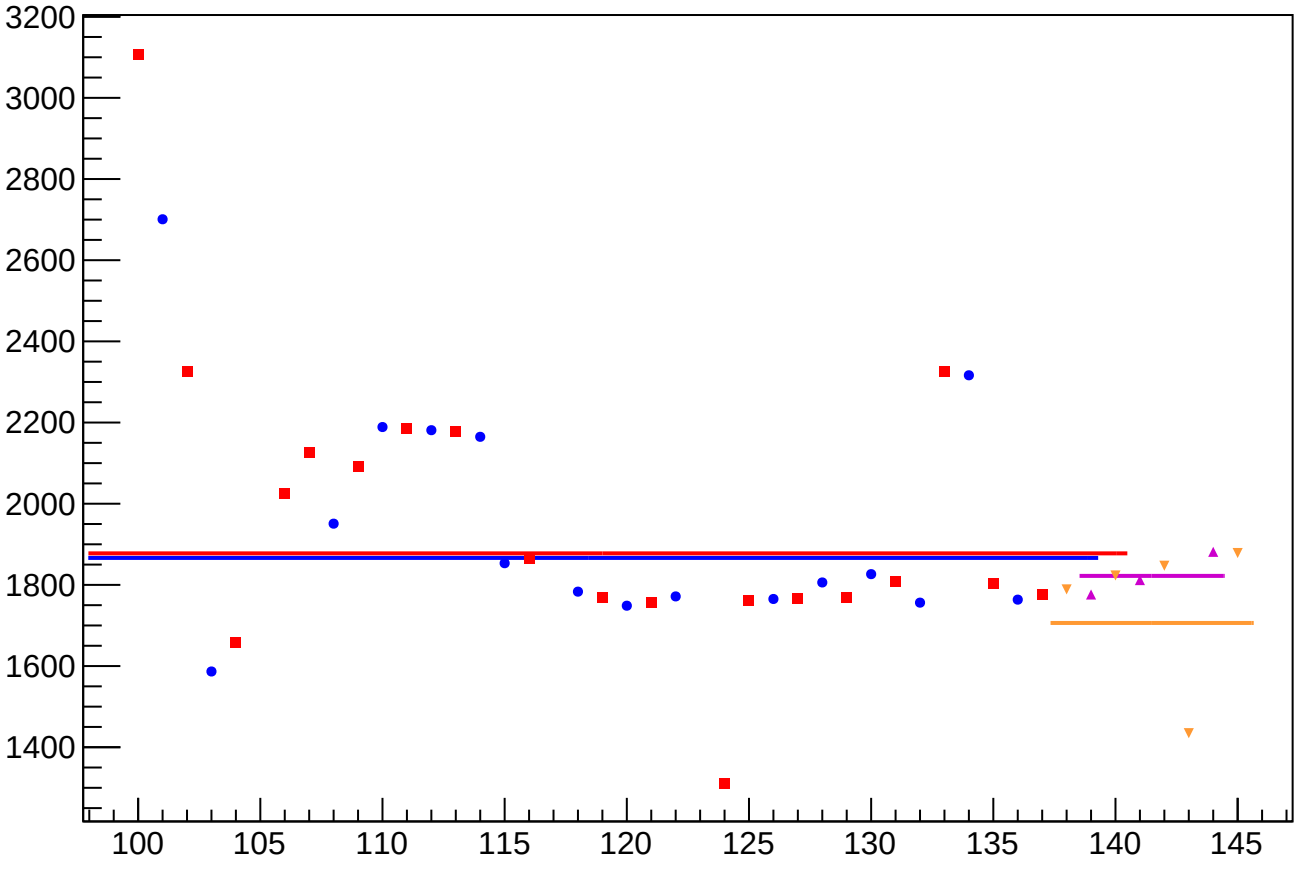
In: 3766.460+/-0.869 $\chi^2$/NDF:721120.6/18

Out: 908.884+/-0.348 $\chi^2$/NDF:15030342.9/23

All: 1304.561+/-0.323 $\chi^2$/NDF: 25064719.9/4


dit_asym_atl1r2_dd_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -1087.731+/-699.579 χ²/NDF: 13.2/15
Left Out: 1579.211+/-893.244 χ²/NDF:1.2/4
Right Out: -361.218+/-699.665 χ²/NDF: 20.8/18
Left In: -1329.789+/-1123.483 χ²/NDF:4.4/2
Left: 452.543+/-699.186 χ²/NDF: 9.7/7
Right: -724.519+/-494.707 χ²/NDF: 34.5/34
In: -1155.363+/-593.858 χ²/NDF:17.6/18
Out: 376.617+/-550.809 χ²/NDF:24.9/23
All: -331.839+/-403.843 χ²/NDF: 46.1/42

# dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1866.456+/-0.495 $\chi^2$/NDF: 256262.4/15

Left Out: 1706.188+/-0.632 $\chi^2$/NDF:87589.1/4

Right Out: 1877.659+/-0.494 $\chi^2$/NDF: 251850.5/18

Left In: 1822.170+/-0.794 $\chi^2$/NDF:2974.8/2

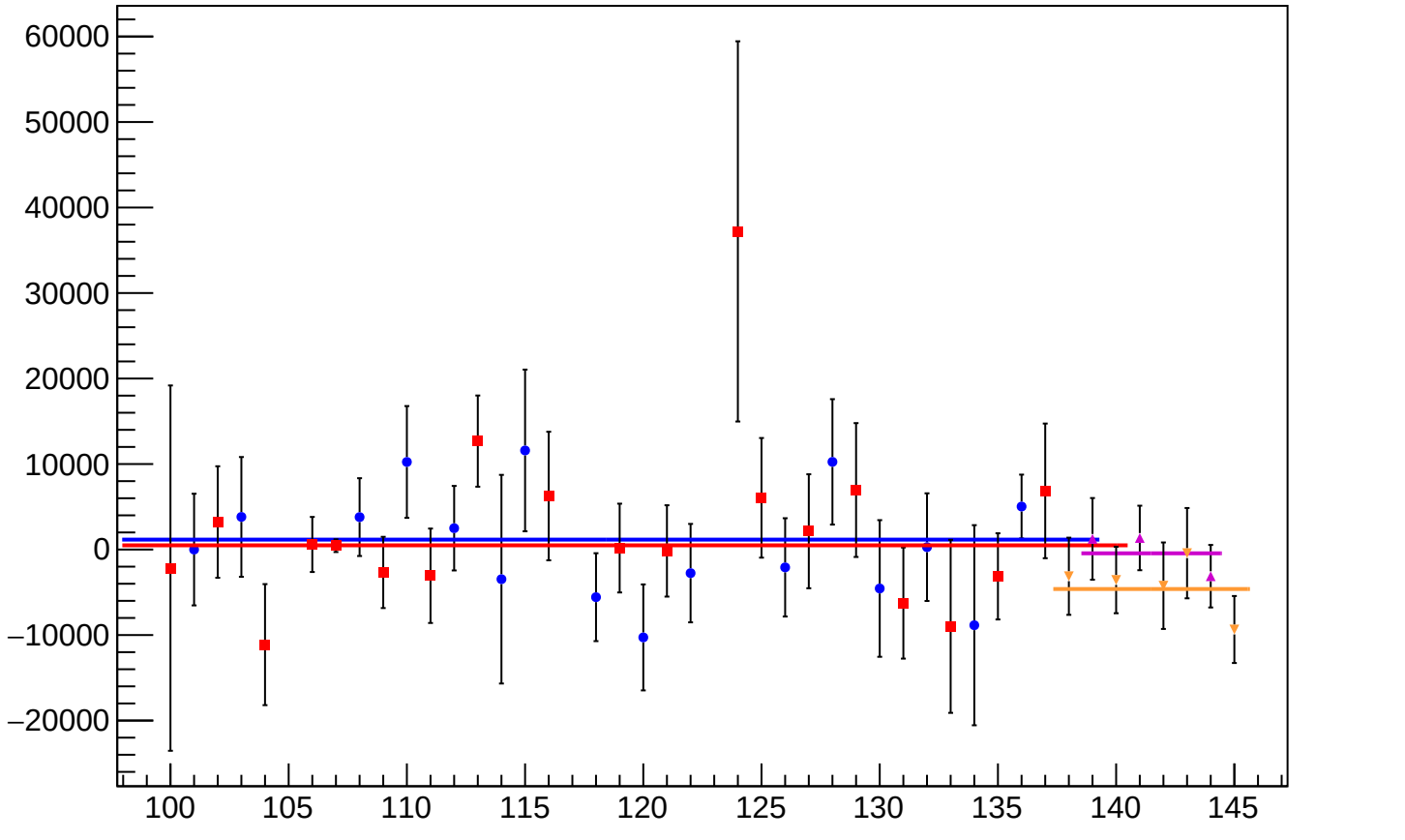
Left: 1751.108+/-0.494 $\chi^2$/NDF: 103623.1/7

Right: 1872.061+/-0.350 $\chi^2$/NDF: 508369.5/34

In: 1854.082+/-0.420 $\chi^2$/NDF:261476.5/18

Out: 1812.525+/-0.389 $\chi^2$/NDF:385144.5/23

All: 1831.732+/-0.285 $\chi^2$/NDF: 651888.2/42




Right In: 1161.124+/-1512.225 $\chi^2$/NDF: 13.7/15

Left Out: -4616.635+/-1978.979 $\chi^2$/NDF:2.3/4

Right Out: 492.907+/-658.510 $\chi^2$/NDF: 16.9/18

Left In: -440.939+/-2300.522 $\chi^2$/NDF:0.9/2

Left: -2840.769+/-1500.262 $\chi^2$/NDF: 5.1/7

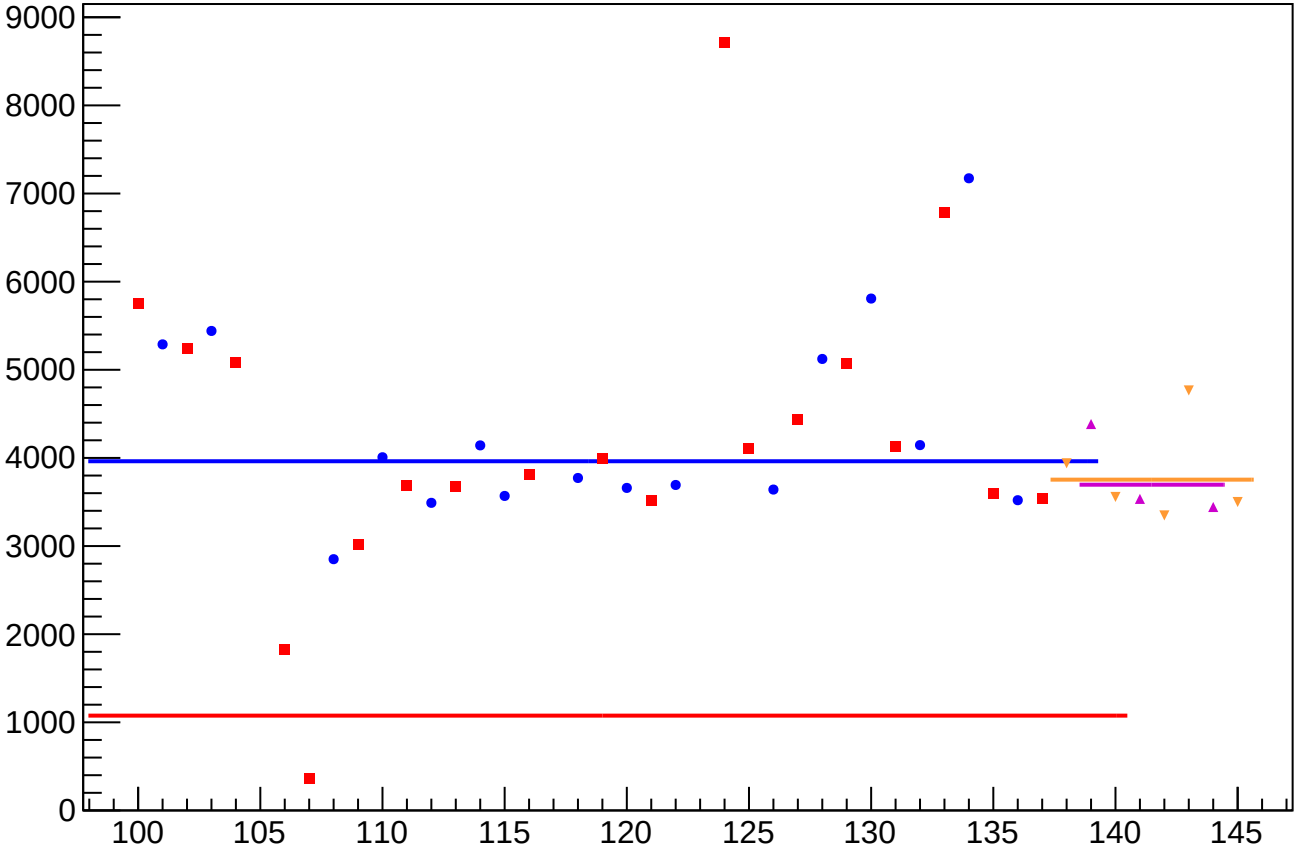
Right: 599.419+/-603.751 $\chi^2$/NDF: 30.8/34

In: 677.745+/-1263.660 $\chi^2$/NDF:14.9/18

Out: -16.446+/-624.827 $\chi^2$/NDF:25.2/23

All: 119.933+/-560.098 $\chi^2$/NDF: 40.3/42

# asym_atl1r2_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 3962.368+/-1.069 $\chi^2$/NDF: 668339.6/15

Left Out: 3753.517+/-1.399 $\chi^2$/NDF:103195.8/4

Right Out: 1075.957+/-0.466 $\chi^2$/NDF: 9558372.9/18

Left In: 3696.167+/-1.627 $\chi^2$/NDF:54802.3/2

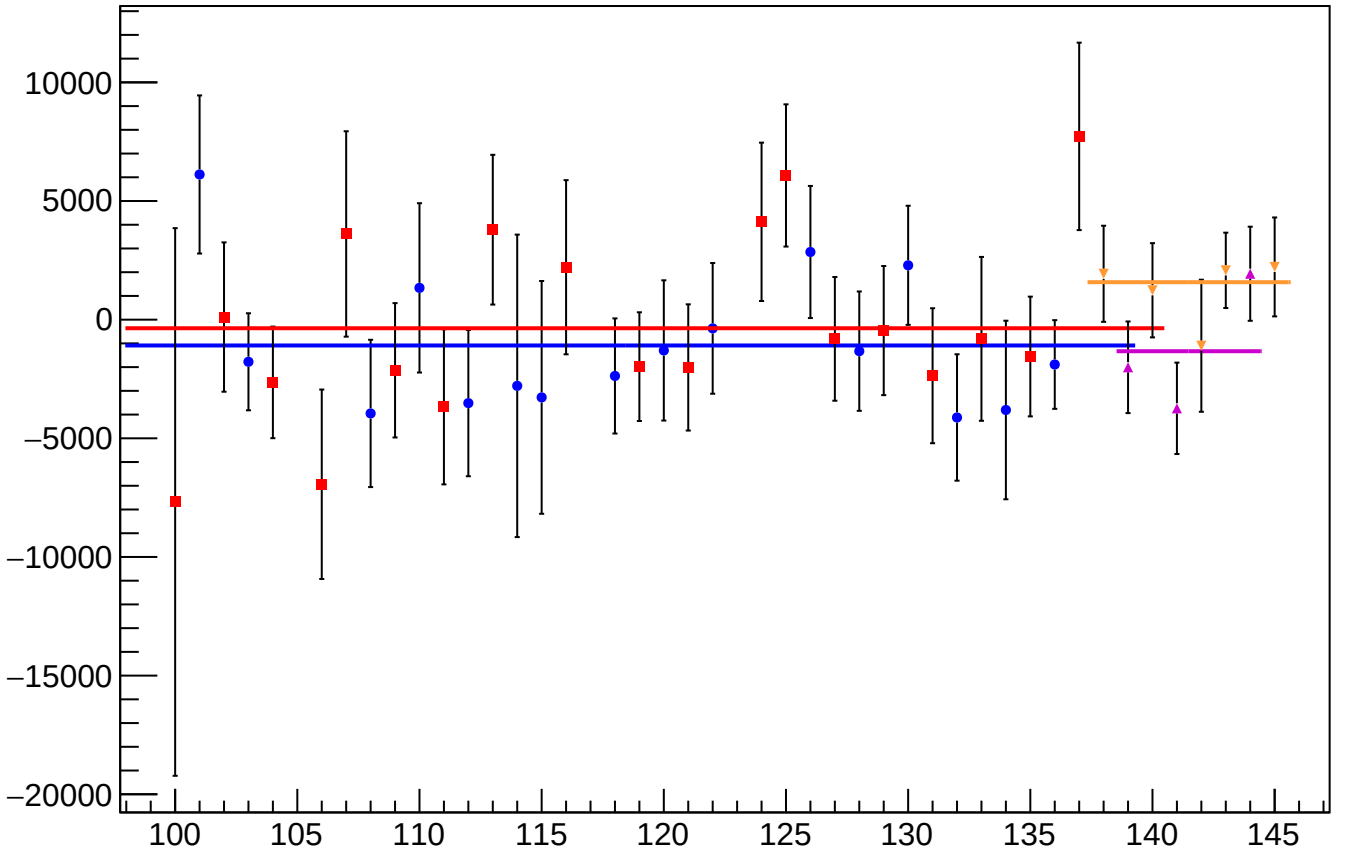
Left: 3729.127+/-1.061 $\chi^2$/NDF: 158712.5/7

Right: 1536.045+/-0.427 $\chi^2$/NDF: 16351680.6/34

In: 3882.049+/-0.894 $\chi^2$/NDF:741841.1/18

Out: 1342.874+/-0.442 $\chi^2$/NDF:12957815.4/23

All: 1841.712+/-0.396 $\chi^2$/NDF: 20188445.5/4




Right In: -1087.736+/-699.579 $\chi^2$/NDF: 13.2/15

Left Out: 1579.198+/-893.244 $\chi^2$/NDF:1.2/4

Right Out: -361.223+/-699.665 $\chi^2$/NDF: 20.8/18

Left In: -1329.780+/-1123.483 $\chi^2$/NDF:4.4/2

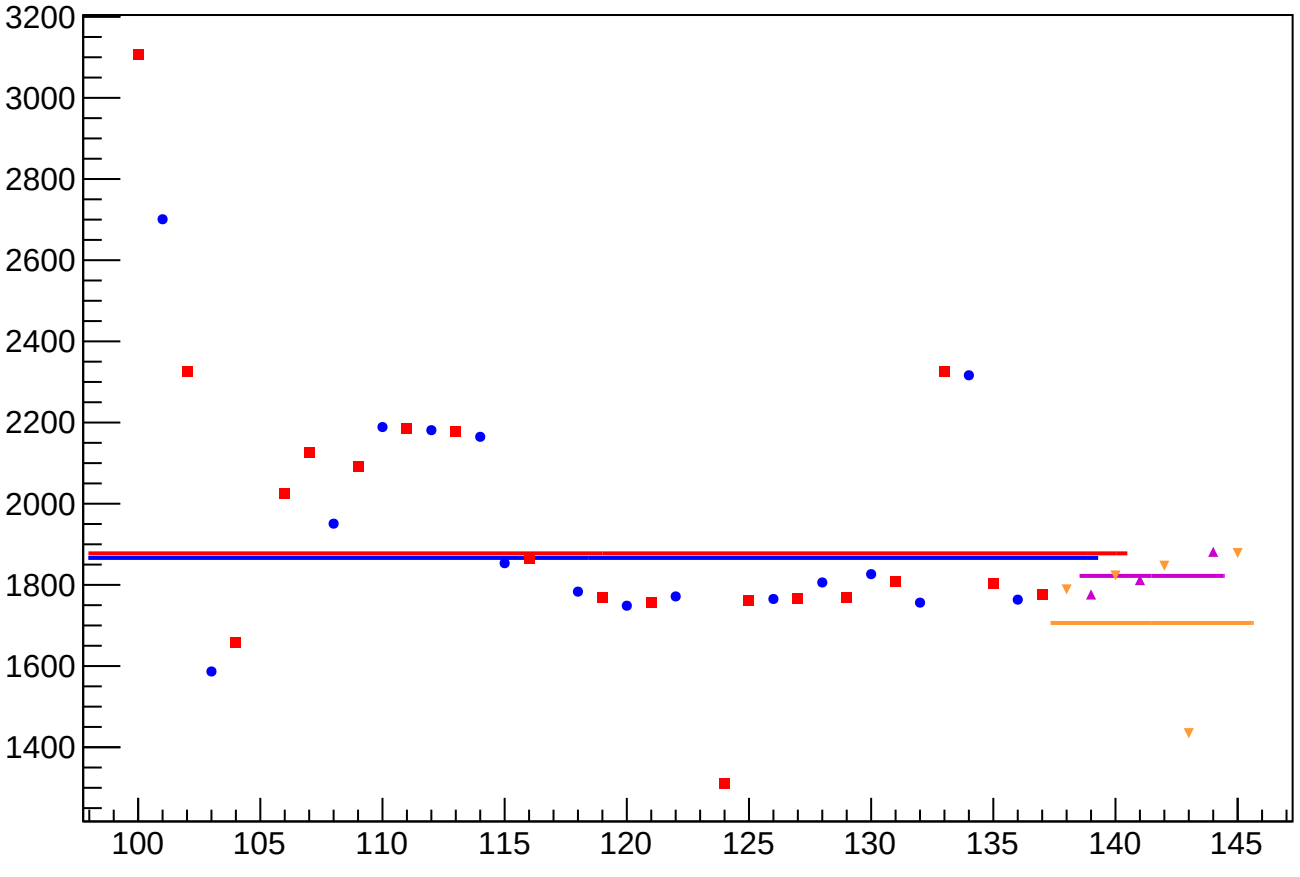
Left: 452.538+/-699.186 $\chi^2$/NDF: 9.7/7

Right: -724.524+/-494.707 $\chi^2$/NDF: 34.5/34

In: -1155.364+/-593.858 $\chi^2$/NDF:17.6/18

Out: 376.608+/-550.809 $\chi^2$/NDF:24.9/23

All: -331.844+/-403.843 $\chi^2$/NDF: 46.1/42




Right In: 1866.456+/-0.495 $\chi^2$/NDF: 256262.3/15

Left Out: 1706.190+/-0.632 $\chi^2$/NDF:87588.2/4

Right Out: 1877.659+/-0.494 $\chi^2$/NDF: 251850.8/18

Left In: 1822.170+/-0.794 $\chi^2$/NDF:2974.8/2

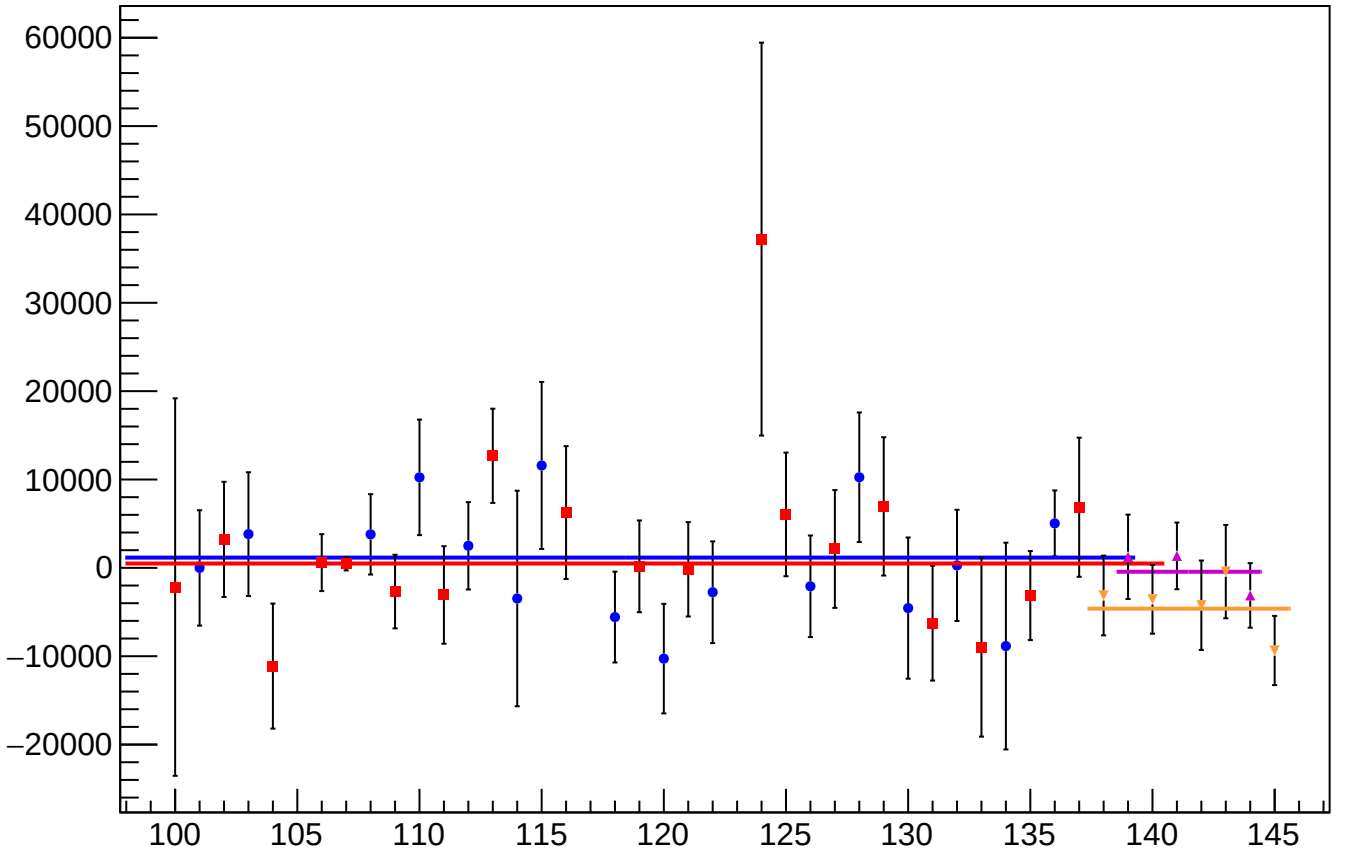
Left: 1751.109+/-0.494 $\chi^2$/NDF: 103622.0/7

Right: 1872.061+/-0.350 $\chi^2$/NDF: 508369.7/34

In: 1854.082+/-0.420 $\chi^2$/NDF:261476.4/18

Out: 1812.526+/-0.389 $\chi^2$/NDF:385143.1/23

All: 1831.733+/-0.285 $\chi^2$/NDF: 651886.6/42




Right In: 1161.104+/-1512.222 $\chi^2$/NDF: 13.7/15

Left Out: -4616.642+/-1978.980 $\chi^2$/NDF:2.3/4

Right Out: 492.914+/-658.521 $\chi^2$/NDF: 16.9/18

Left In: -440.930+/-2300.524 $\chi^2$/NDF:0.9/2

Left: -2840.770+/-1500.263 $\chi^2$/NDF: 5.1/7

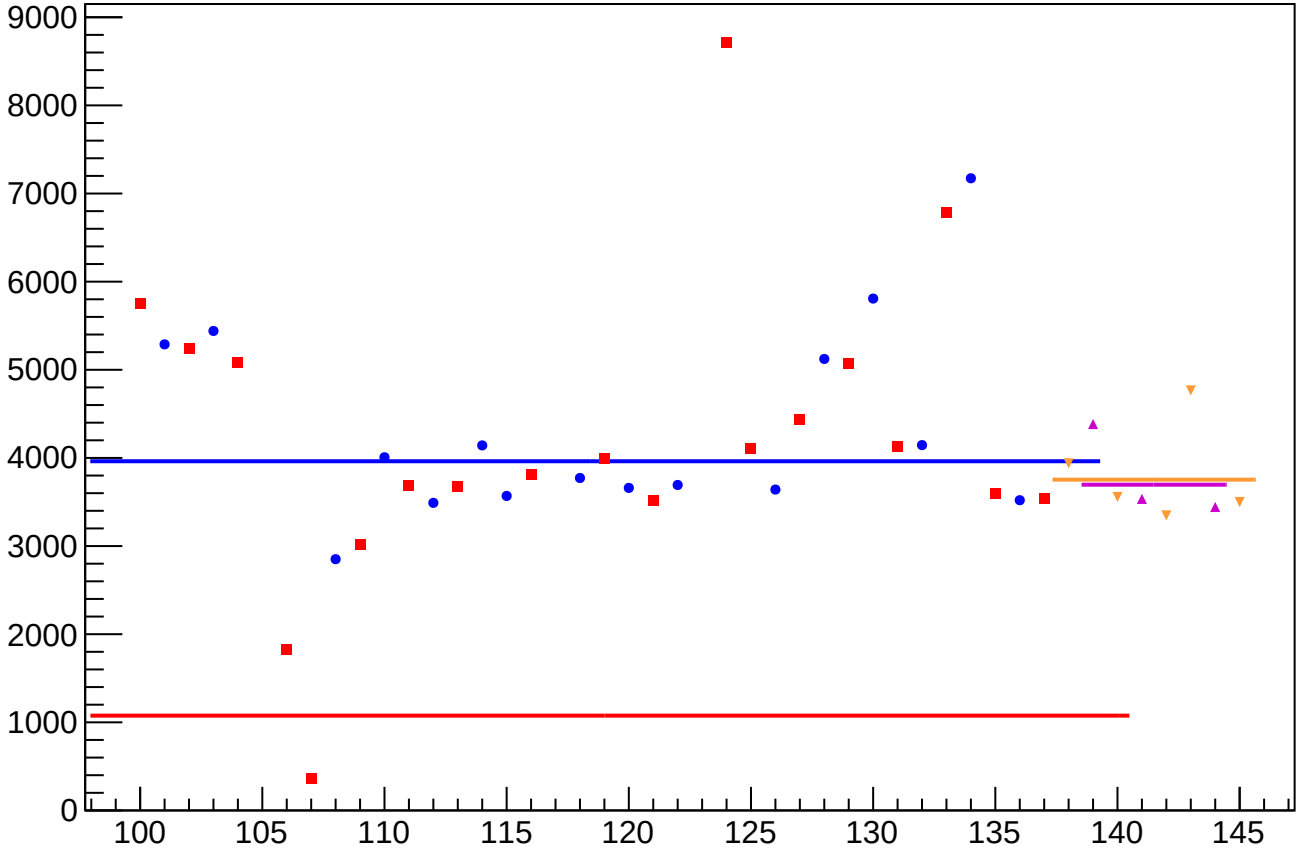
Right: 599.426+/-603.759 $\chi^2$/NDF: 30.8/34

In: 677.736+/-1263.659 $\chi^2$/NDF:14.9/18

Out: -16.454+/-624.836 $\chi^2$/NDF:25.2/23

All: 119.928+/-560.105 $\chi^2$/NDF: 40.3/42

asym_atl1r2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3962.361+/-1.069 $\chi^2$/NDF: 668335.9/15

Left Out: 3753.520+/-1.399 $\chi^2$/NDF:103194.8/4

Right Out: 1075.988+/-0.466 $\chi^2$/NDF: 9558243.3/18

Left In: 3696.169+/-1.627 $\chi^2$/NDF:54803.1/2

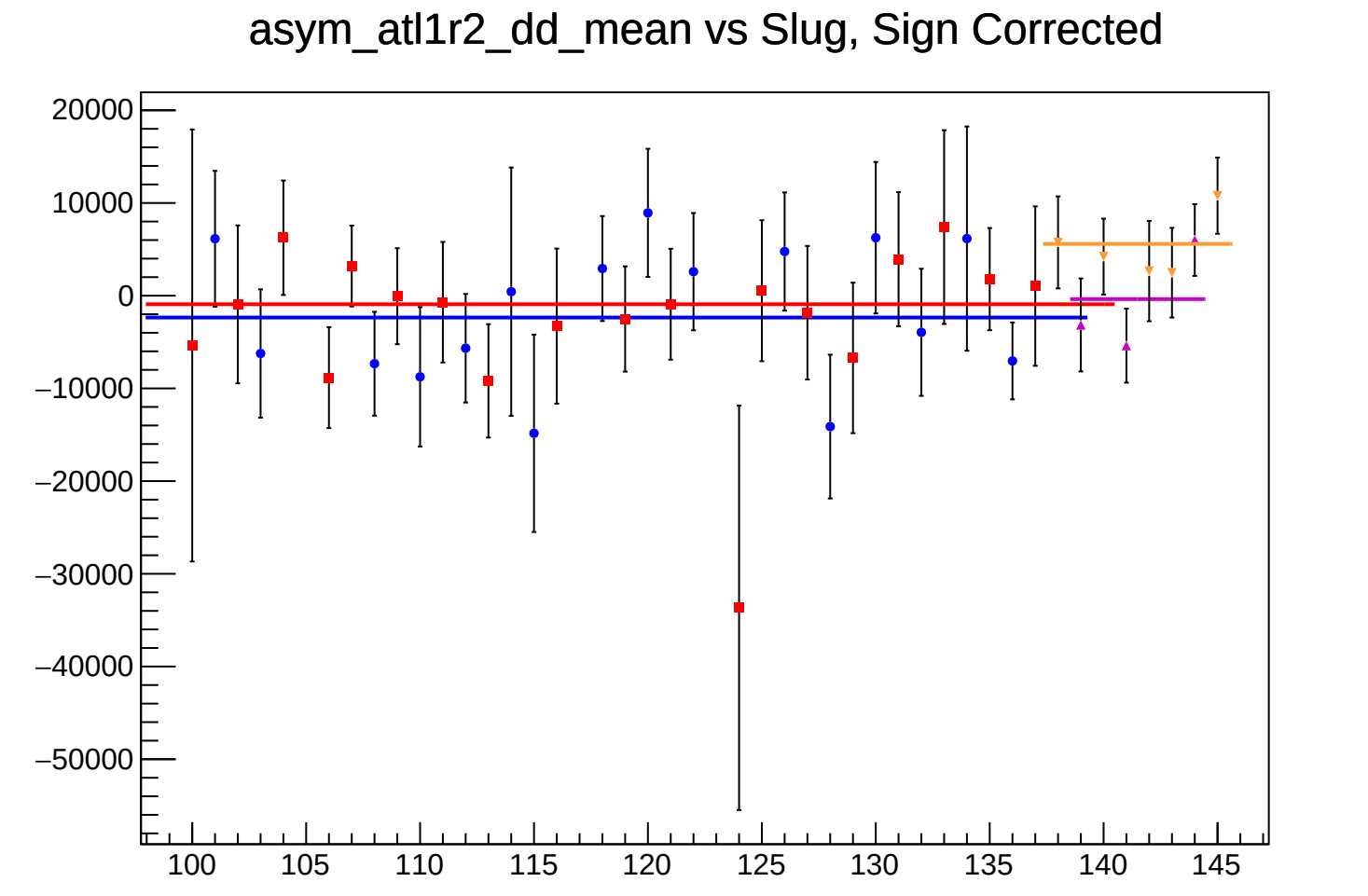
Left: 3729.129+/-1.061 $\chi^2$/NDF: 158712.2/7

Right: 1536.084+/-0.427 $\chi^2$/NDF: 16351375.7/34

In: 3882.045+/-0.894 $\chi^2$/NDF:741837.0/18

Out: 1342.909+/-0.442 $\chi^2$/NDF:12957600.8/23

All: 1841.753+/-0.396 $\chi^2$/NDF: 20188000.4/4




Right In: -2354.851+/-1684.784 $\chi^2$/NDF: 15.5/15

Left Out: 5586.442+/-2056.001 $\chi^2$/NDF:2.4/4

Right Out: -924.896+/-1546.889 $\chi^2$/NDF: 10.6/18

Left In: -366.901+/-2430.970 $\chi^2$/NDF:4.6/2

Left: 3103.832+/-1569.833 $\chi^2$/NDF: 10.5/7

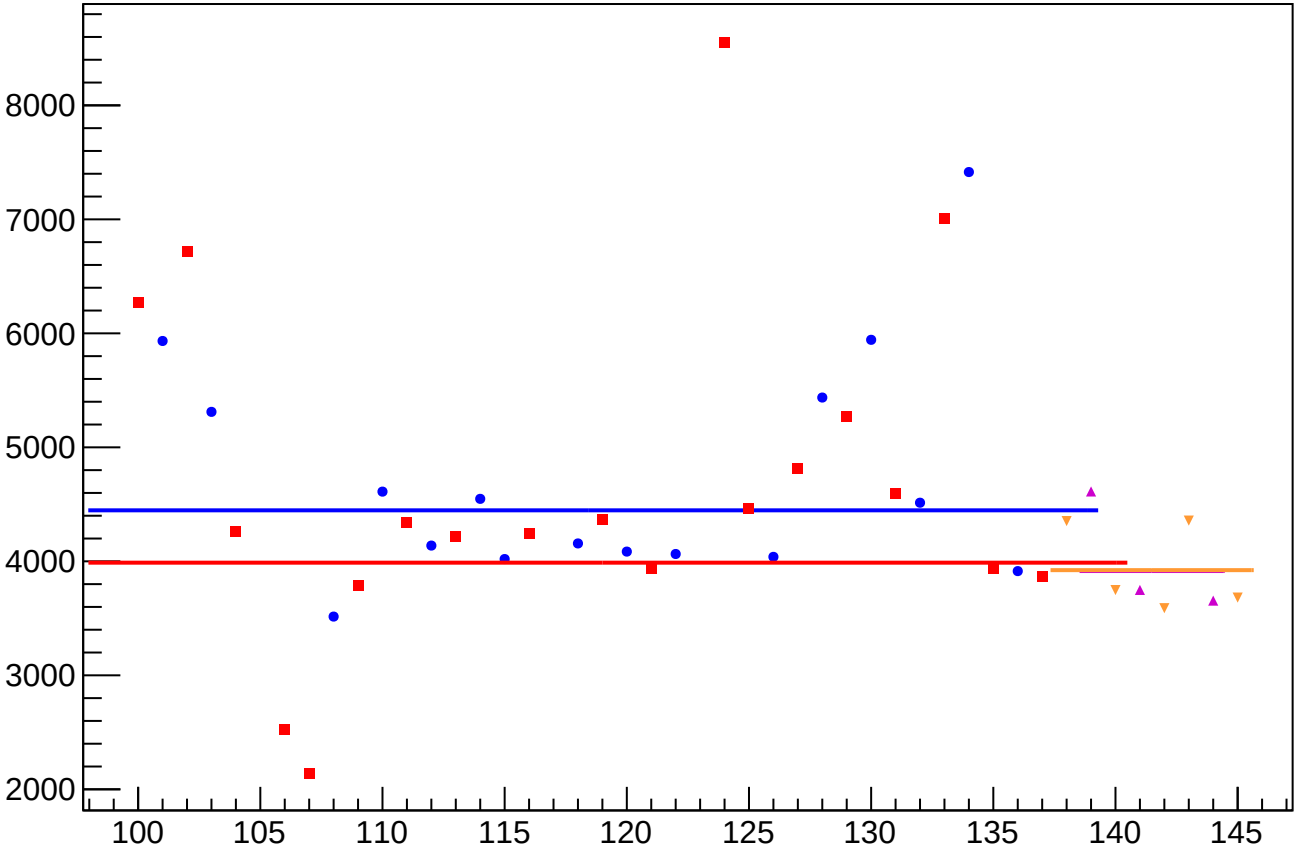
Right: -1578.969+/-1139.452 $\chi^2$/NDF: 26.5/34

In: -1709.822+/-1384.735 $\chi^2$/NDF:20.6/18

Out: 1428.691+/-1236.099 $\chi^2$/NDF:19.4/23

All: 36.859+/-922.143 $\chi^2$/NDF: 42.9/42

# asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 4447.424+/-1.191 $\chi^2$/NDF: 458251.2/15

Left Out: 3922.645+/-1.454 $\chi^2$/NDF:49341.1/4

Right Out: 3988.249+/-1.083 $\chi^2$/NDF: 1143932.4/18

Left In: 3914.953+/-1.719 $\chi^2$/NDF:51152.1/2

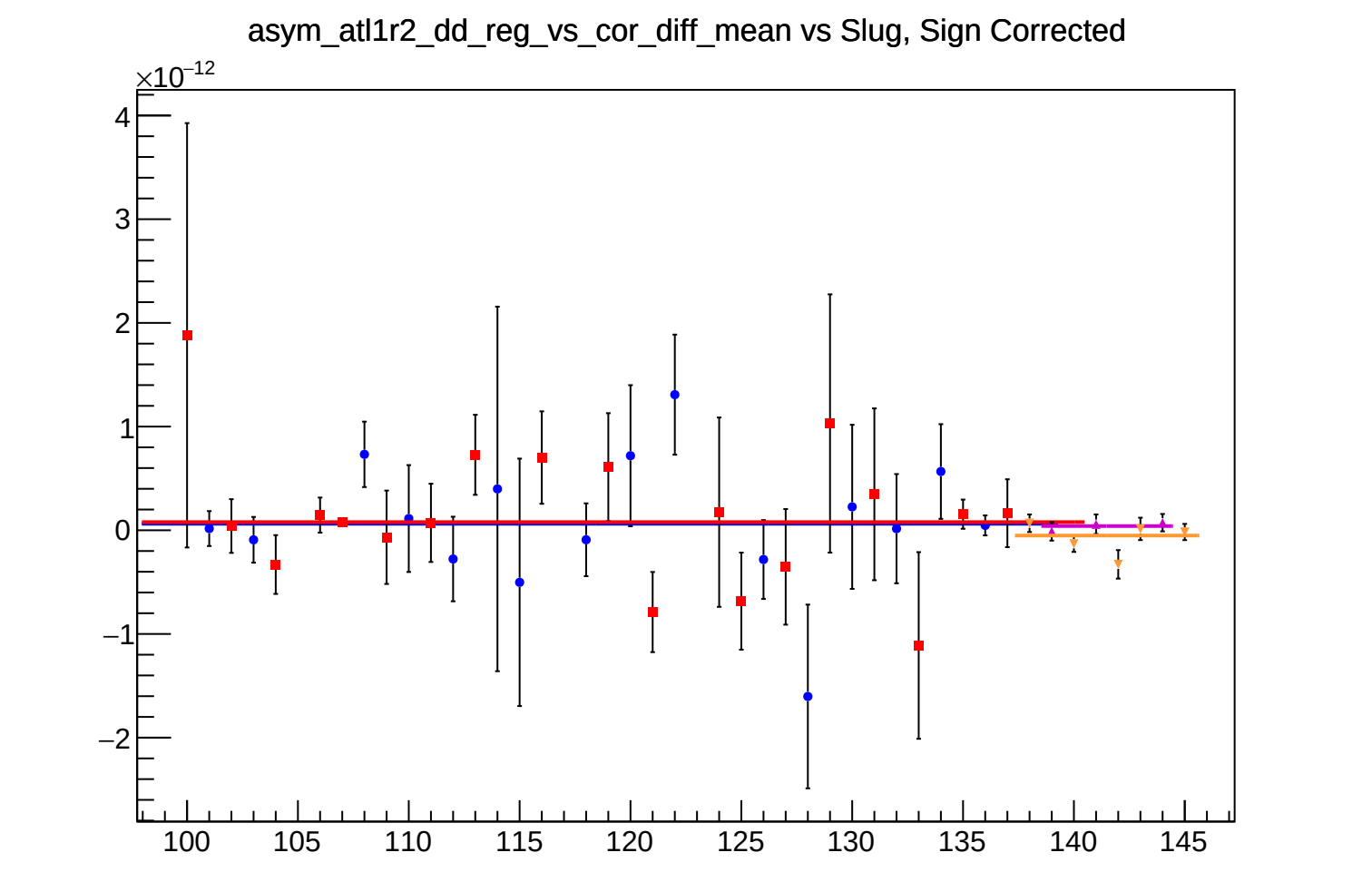
Left: 3919.438+/-1.110 $\chi^2$/NDF: 100504.8/7

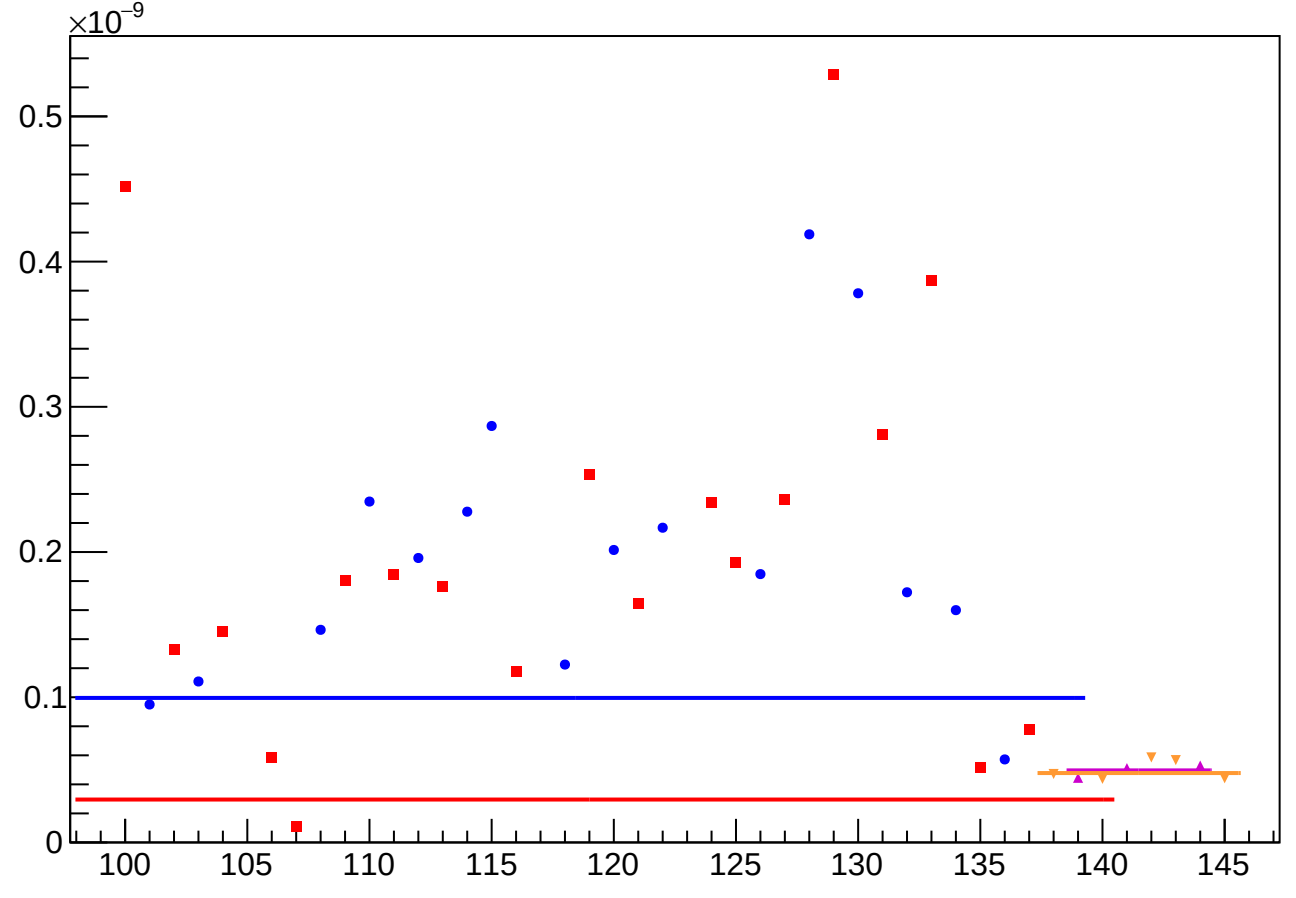
Right: 4196.010+/-0.801 $\chi^2$/NDF: 1683524.5/34

In: 4274.653+/-0.979 $\chi^2$/NDF:574222.9/18

Out: 3964.837+/-0.868 $\chi^2$/NDF:1194583.1/23

All: 4101.255+/-0.650 $\chi^2$/NDF: 1824839.3/42


asym_atl1r2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 17.4/15
Left Out: -0.000+/-0.000 χ²/NDF:7.6/4
Right Out: 0.000+/-0.000 χ²/NDF: 20.1/18
Left In: 0.000+/-0.000 χ²/NDF:0.5/2
Left: -0.000+/-0.000 χ²/NDF: 10.1/7
Right: 0.000+/-0.000 χ²/NDF: 37.5/34
In: 0.000+/-0.000 χ²/NDF:18.0/18
Out: 0.000+/-0.000 χ²/NDF:33.8/23
All: 0.000+/-0.000 χ²/NDF: 52.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1562904.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:35513.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4363474.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:10343.6/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 47424.4/7

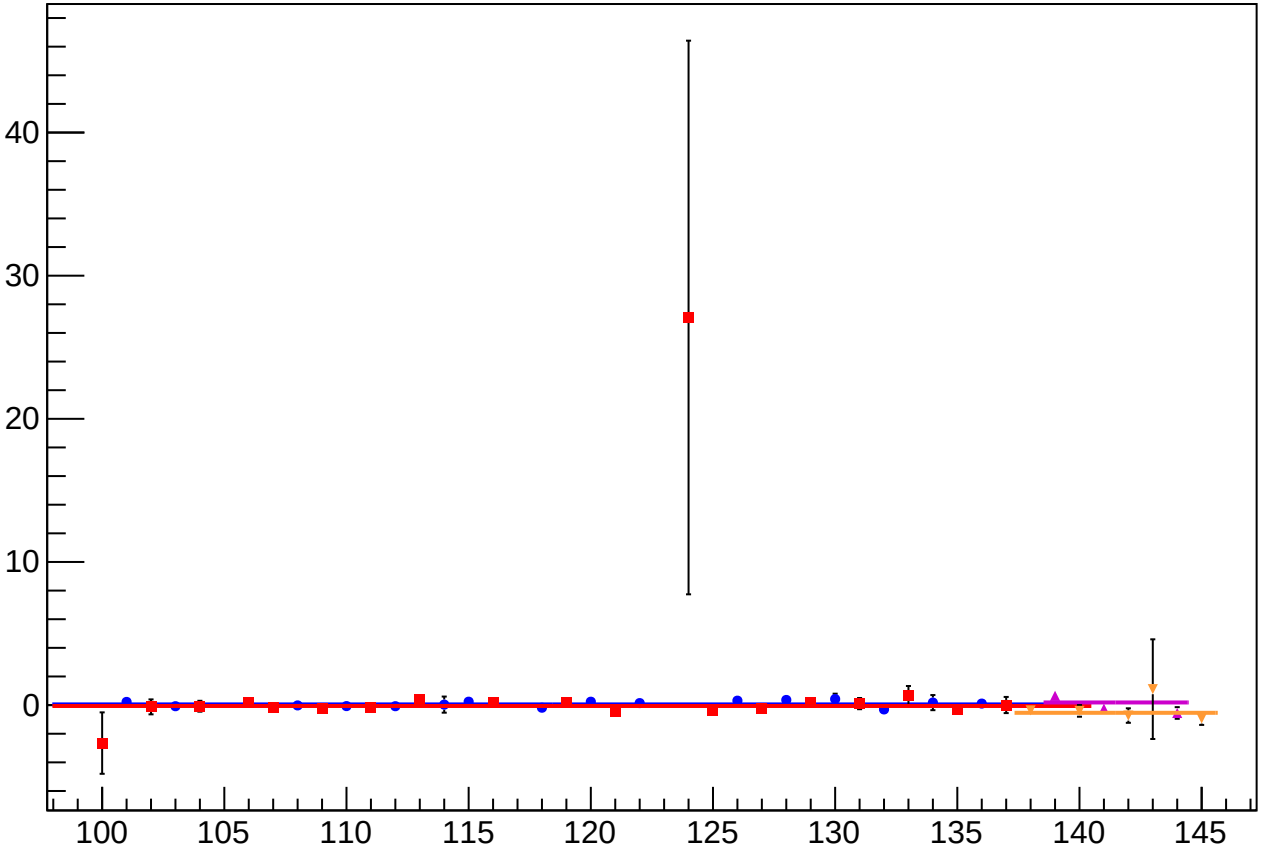
Right: 0.000+/-0.000 $\chi^2$/NDF: 7631581.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2260364.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4640050.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7710310.5/42

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: -0.538+/-0.199 $\chi^2$/NDF:1.6/4

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.185+/-0.177 $\chi^2$/NDF:8.7/2

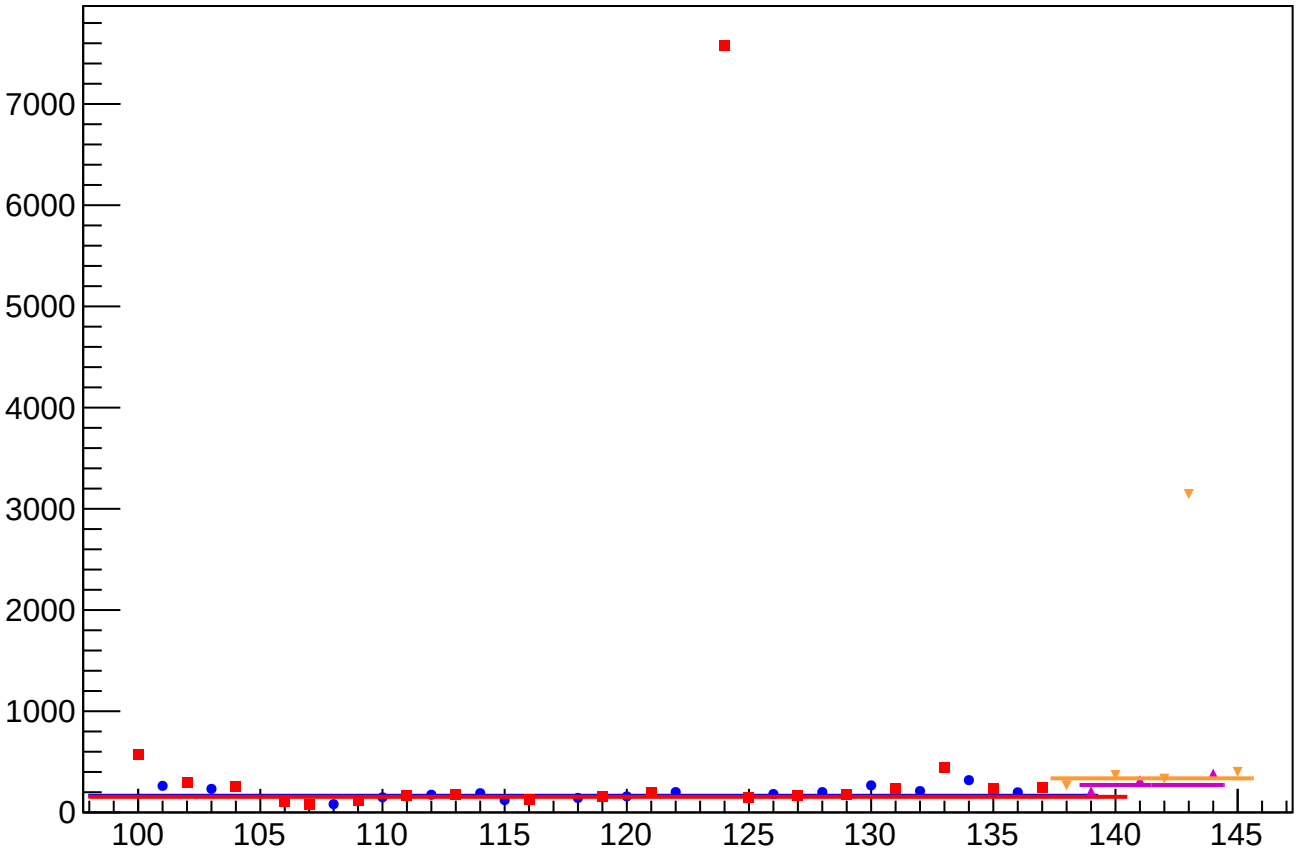
Left: -0.134+/-0.132 $\chi^2$/NDF: 17.6/7

Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.065+/-0.062 $\chi^2$/NDF:16.8/18

Out: -0.107+/-0.061 $\chi^2$/NDF:25.2/23

All: -0.022+/-0.044 $\chi^2$/NDF: 45.8/42




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474718.1/15

Left Out: 337.160+/-0.140 $\chi^2$/NDF:1454578.7/4

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921322.6/18

Left In: 271.576+/-0.125 $\chi^2$/NDF:327035.6/2

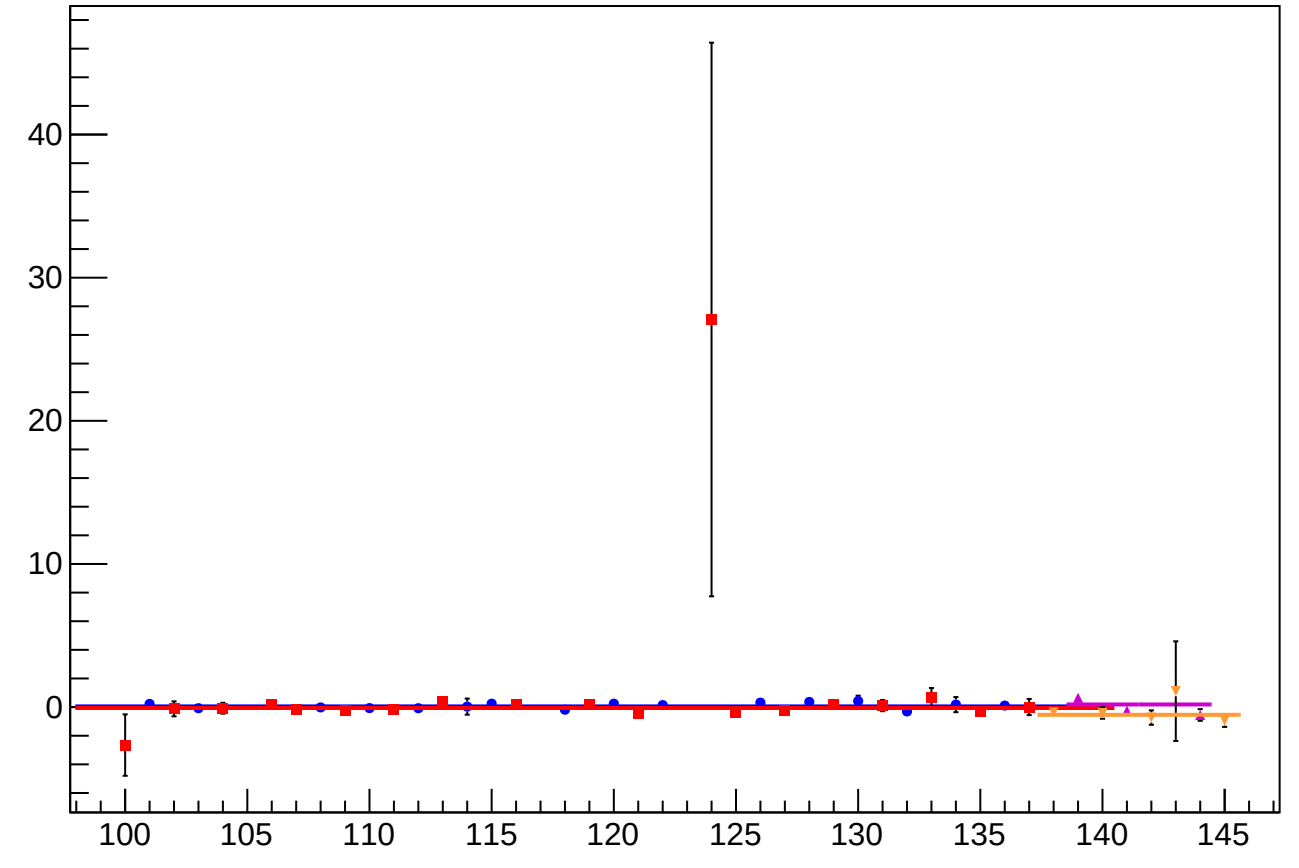
Left: 300.515+/-0.093 $\chi^2$/NDF: 1903408.4/7

Right: 159.465+/-0.033 $\chi^2$/NDF: 3421679.3/34

In: 178.090+/-0.044 $\chi^2$/NDF:2441953.3/18

Out: 171.770+/-0.043 $\chi^2$/NDF:4907806.2/23

All: 174.884+/-0.031 $\chi^2$/NDF: 7360245.7/42




Right In: 0.048+/-0.066 $\chi^2$/NDF: 7.6/15

Left Out: -0.538+/-0.199 $\chi^2$/NDF:1.6/4

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.185+/-0.177 $\chi^2$/NDF:8.7/2

Left: -0.134+/-0.132 $\chi^2$/NDF: 17.6/7

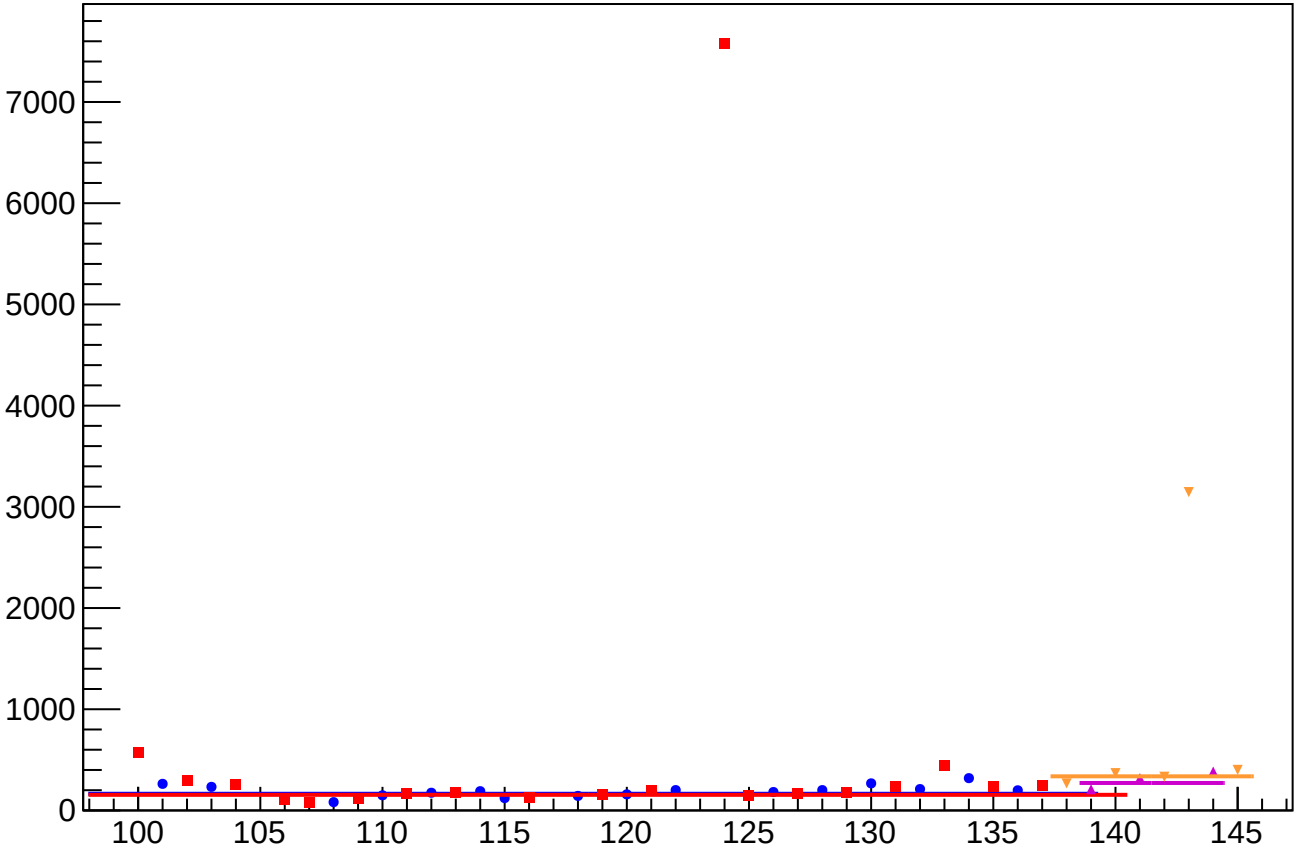
Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.065+/-0.062 $\chi^2$/NDF:16.8/18

Out: -0.107+/-0.061 $\chi^2$/NDF:25.2/23

All: -0.022+/-0.044 $\chi^2$/NDF: 45.8/42

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474718.1/15

Left Out: 337.160+/-0.140 $\chi^2$/NDF:1454578.7/4

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921322.6/18

Left In: 271.575+/-0.125 $\chi^2$/NDF:327035.6/2

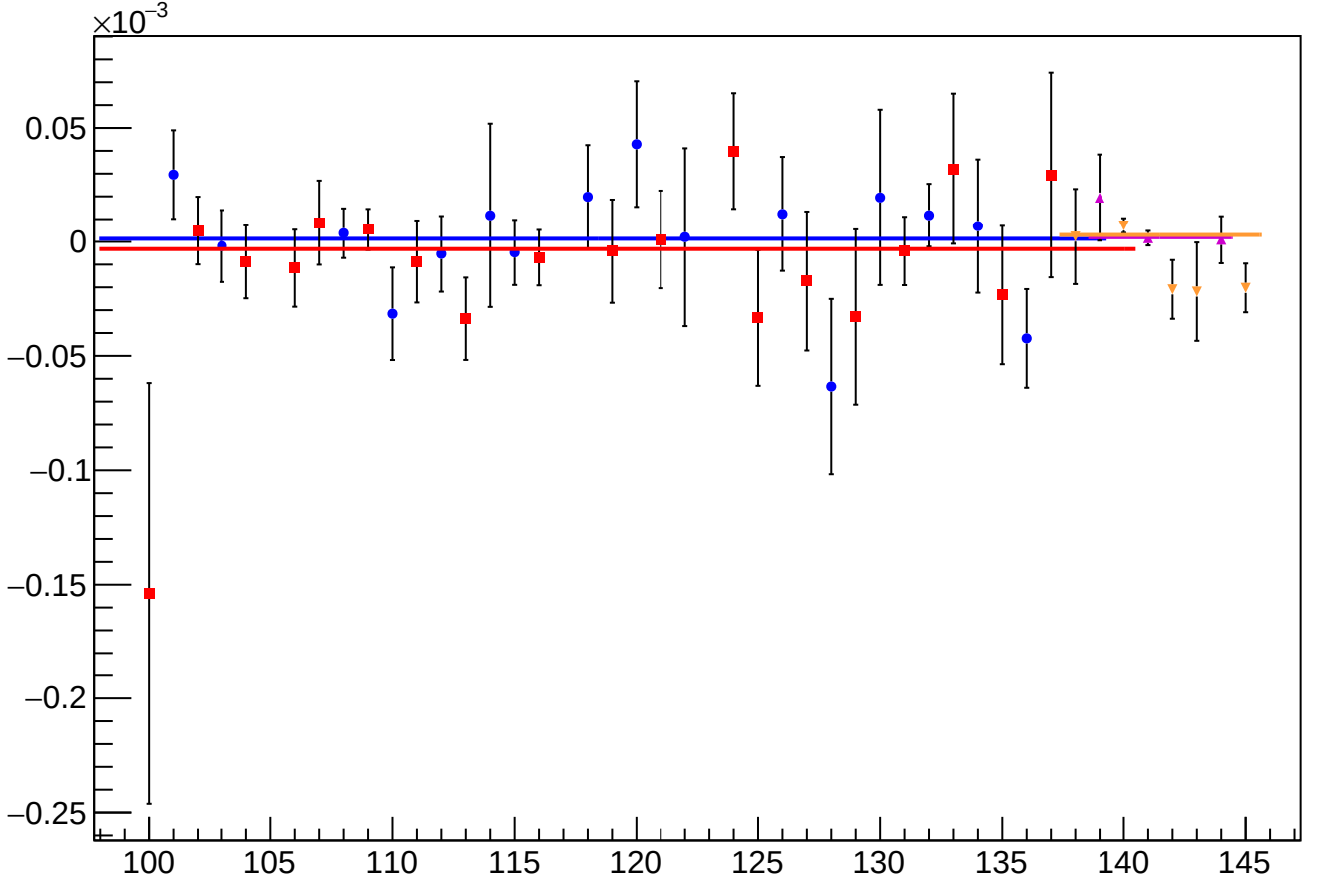
Left: 300.515+/-0.093 $\chi^2$/NDF: 1903408.4/7

Right: 159.465+/-0.033 $\chi^2$/NDF: 3421679.3/34

In: 178.090+/-0.044 $\chi^2$/NDF:2441953.3/18

Out: 171.770+/-0.043 $\chi^2$/NDF:4907806.2/23

All: 174.884+/-0.031 $\chi^2$/NDF: 7360245.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/2

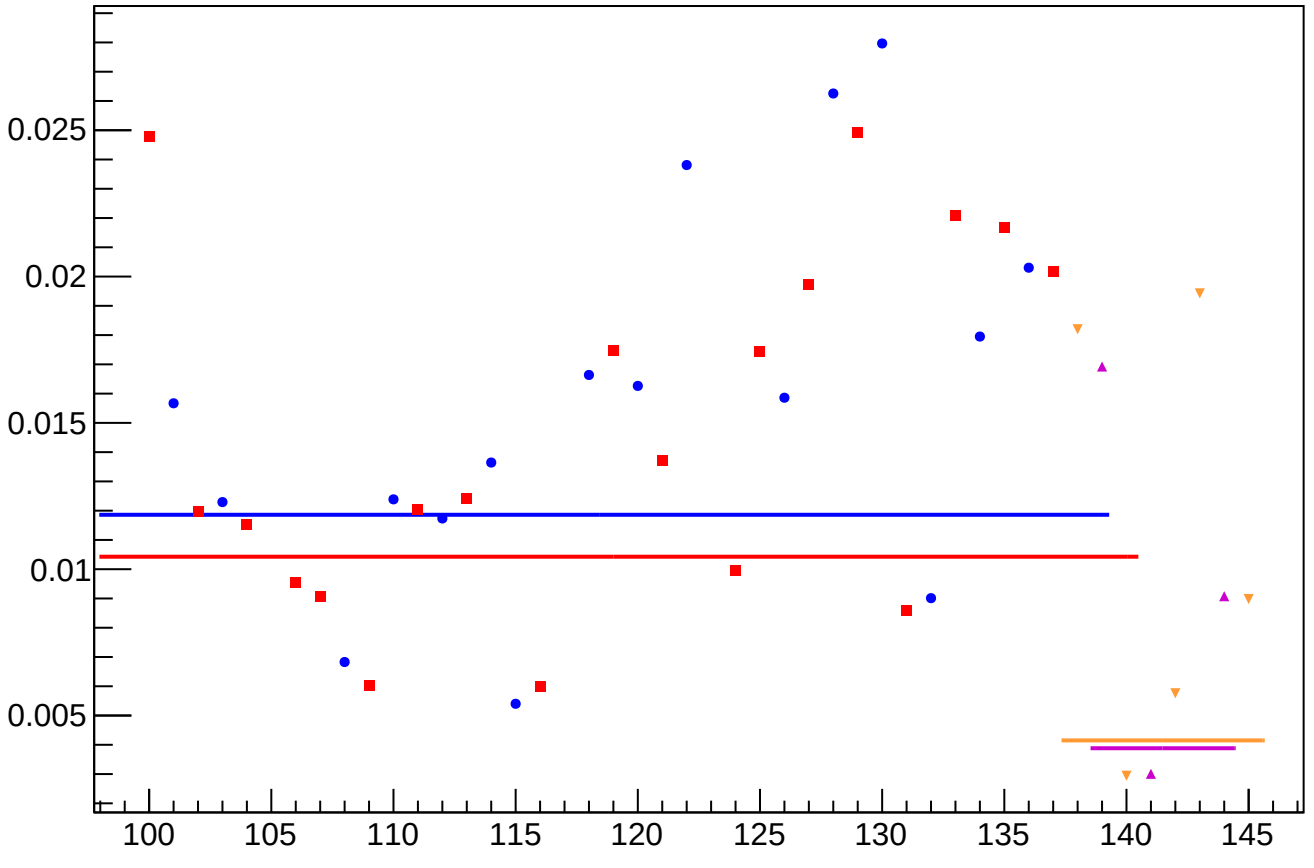
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.1/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:17.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:27.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 44.3/42




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2407192.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2630853.4/4

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 2355101.8/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:1604800.2/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 4243696.2/7

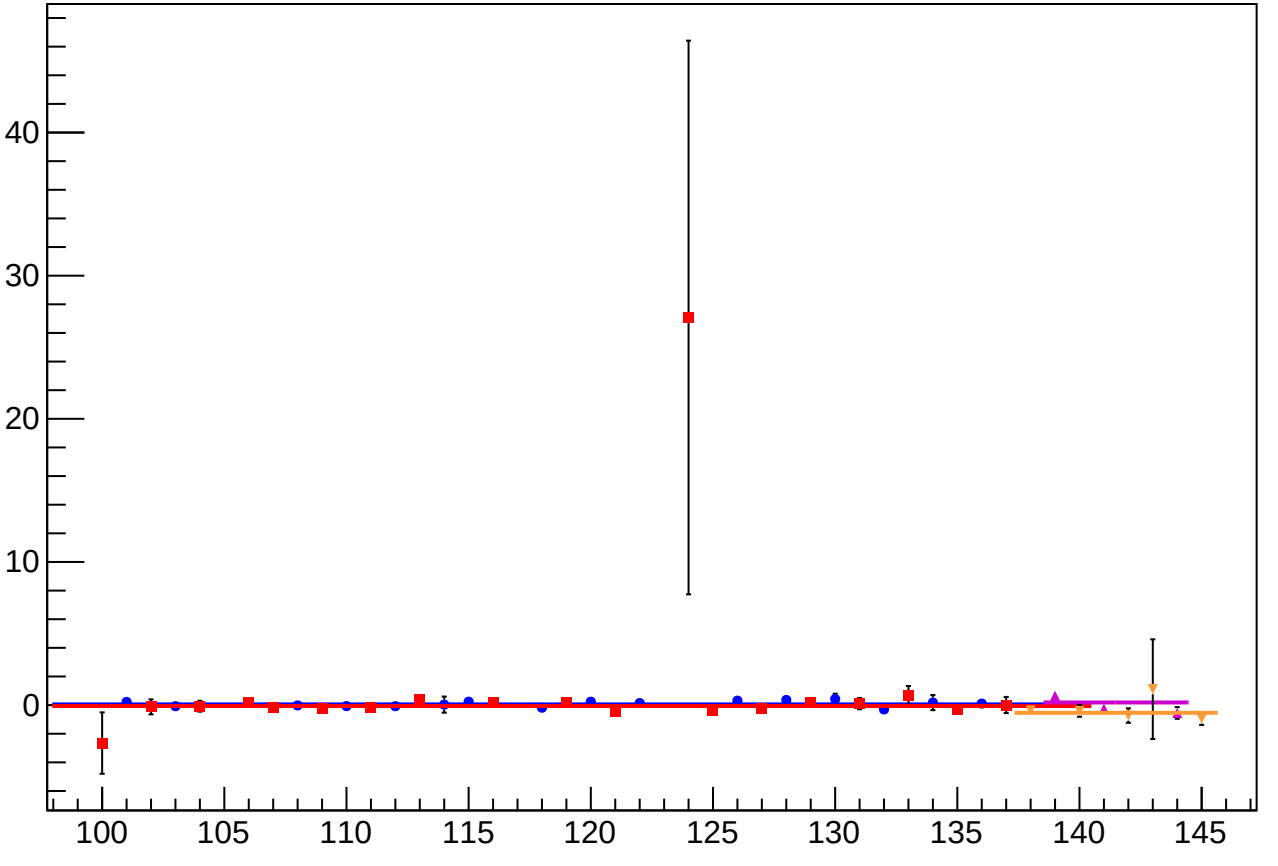
Right: 0.011+/-0.000 $\chi^2$/NDF: 4860752.3/34

In: 0.006+/-0.000 $\chi^2$/NDF:7882536.9/18

Out: 0.006+/-0.000 $\chi^2$/NDF:7952107.6/23

All: 0.006+/-0.000 $\chi^2$/NDF: 15835848.6/42

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: -0.538+/-0.199 $\chi^2$/NDF:1.6/4

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.185+/-0.177 $\chi^2$/NDF:8.7/2

Left: -0.134+/-0.132 $\chi^2$/NDF: 17.6/7

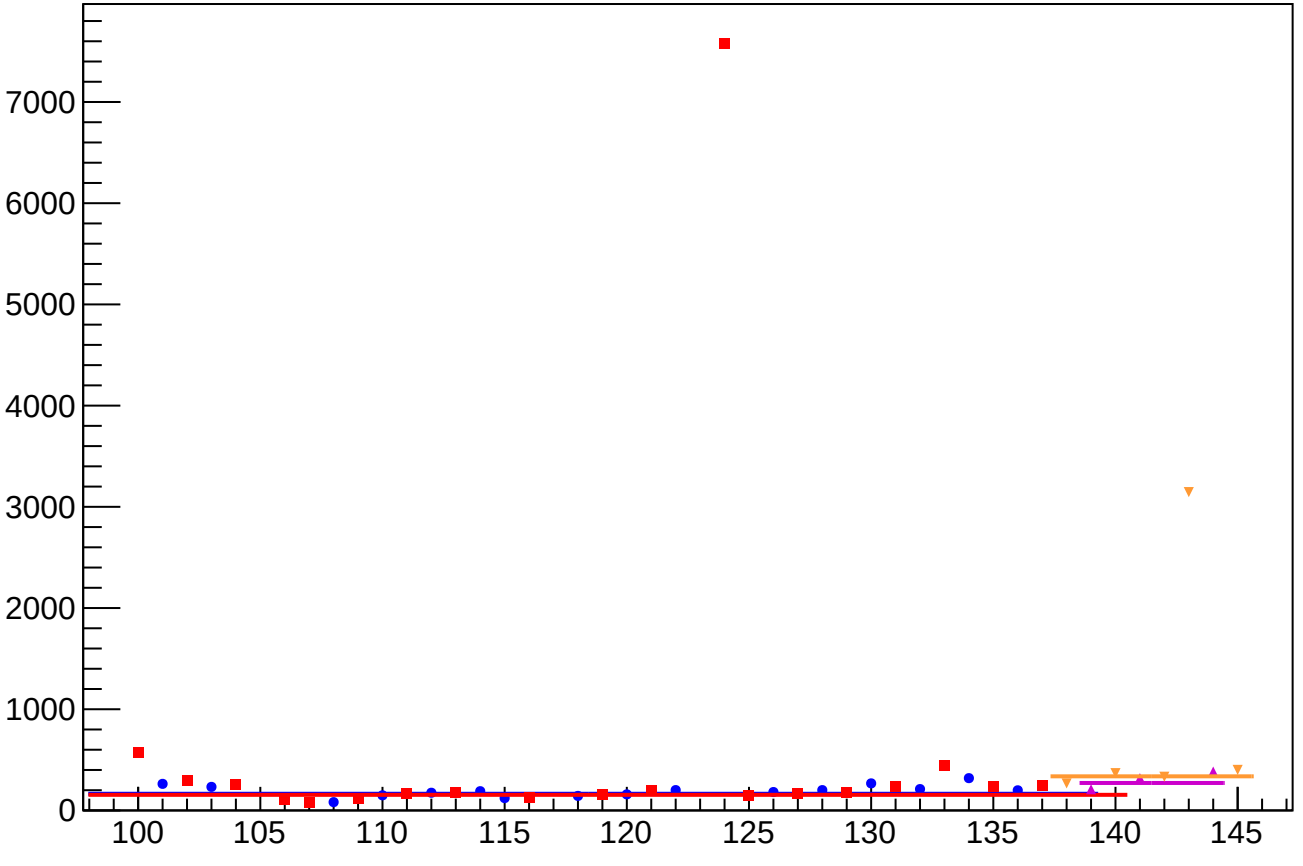
Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.065+/-0.062 $\chi^2$/NDF:16.8/18

Out: -0.107+/-0.061 $\chi^2$/NDF:25.2/23

All: -0.022+/-0.044 $\chi^2$/NDF: 45.9/42

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 164.862+/-0.047 $\chi^2$/NDF: 1474692.6/15

Left Out: 337.164+/-0.140 $\chi^2$/NDF:1454566.1/4

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921346.3/18

Left In: 271.578+/-0.125 $\chi^2$/NDF:327023.4/2

Left: 300.518+/-0.093 $\chi^2$/NDF: 1903386.7/7

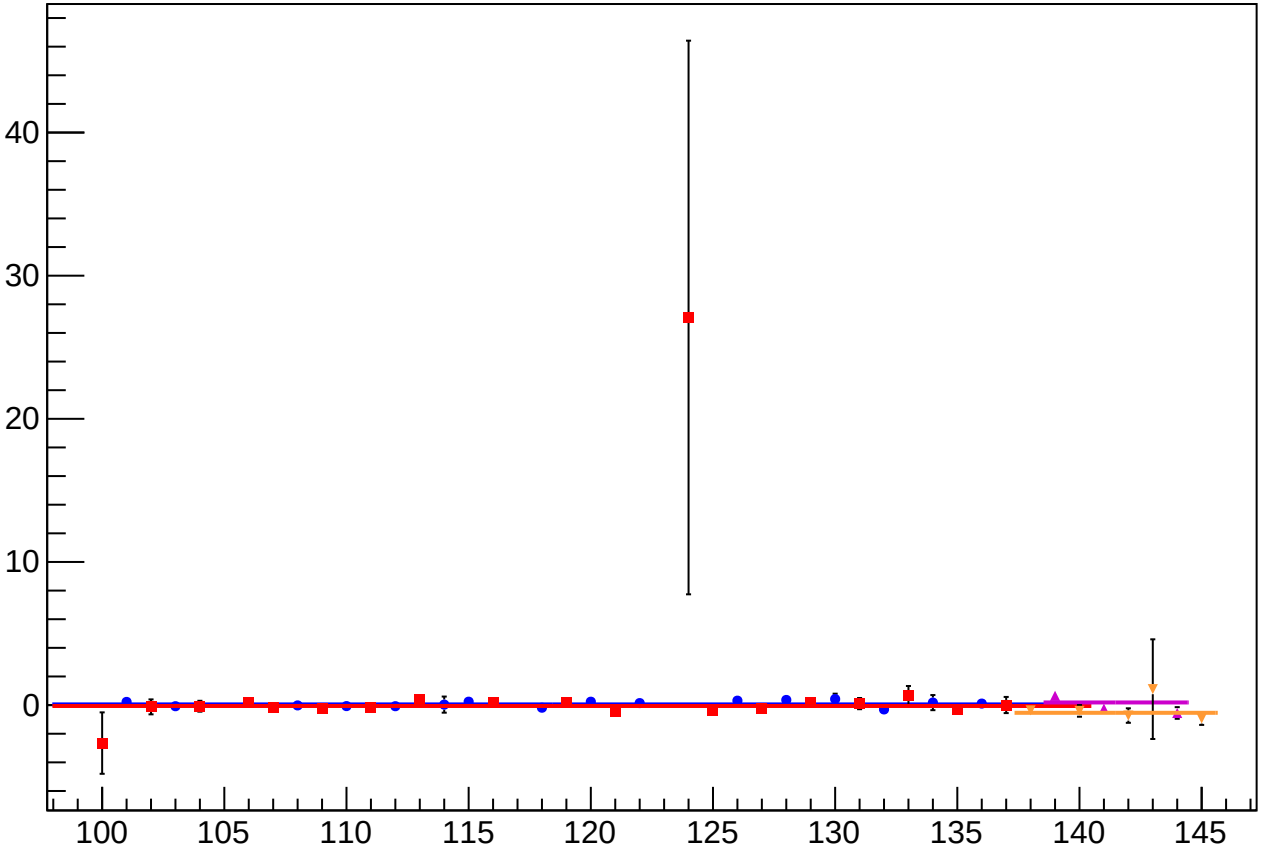
Right: 159.464+/-0.033 $\chi^2$/NDF: 3421678.1/34

In: 178.090+/-0.044 $\chi^2$/NDF:2441937.8/18

Out: 171.770+/-0.043 $\chi^2$/NDF:4907859.0/23

All: 174.884+/-0.031 $\chi^2$/NDF: 7360283.5/42

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: -0.538+/-0.199 $\chi^2$/NDF:1.6/4

Right Out: -0.061+/-0.064 $\chi^2$/NDF: 18.4/18

Left In: 0.185+/-0.177 $\chi^2$/NDF:8.7/2

Left: -0.134+/-0.132 $\chi^2$/NDF: 17.6/7

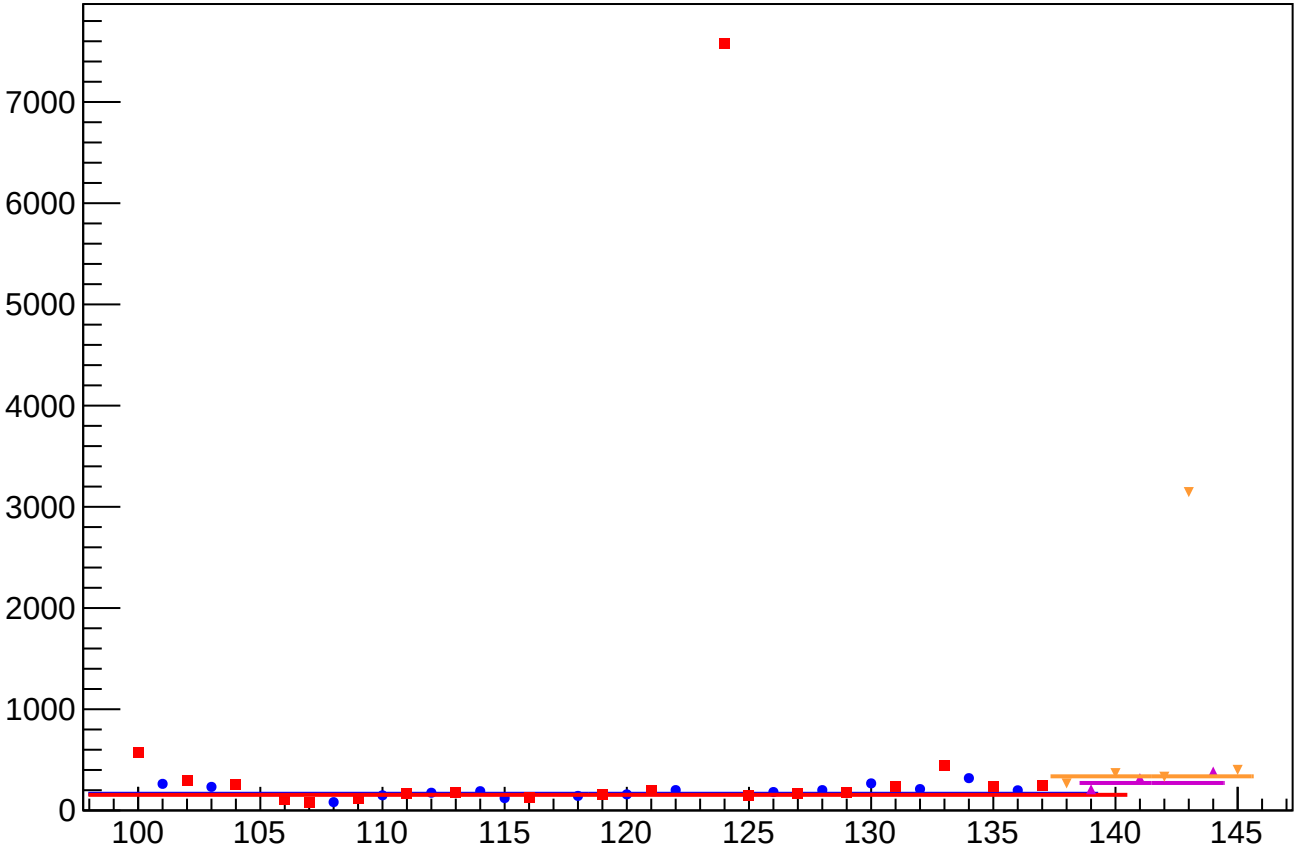
Right: -0.008+/-0.046 $\chi^2$/NDF: 27.4/34

In: 0.065+/-0.062 $\chi^2$/NDF:16.8/18

Out: -0.107+/-0.061 $\chi^2$/NDF:25.2/23

All: -0.022+/-0.044 $\chi^2$/NDF: 45.9/42

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: 337.164+/-0.140 $\chi^2$/NDF:1454566.1/4

Right Out: 154.388+/-0.046 $\chi^2$/NDF: 1921346.3/18

Left In: 271.578+/-0.125 $\chi^2$/NDF:327023.4/2

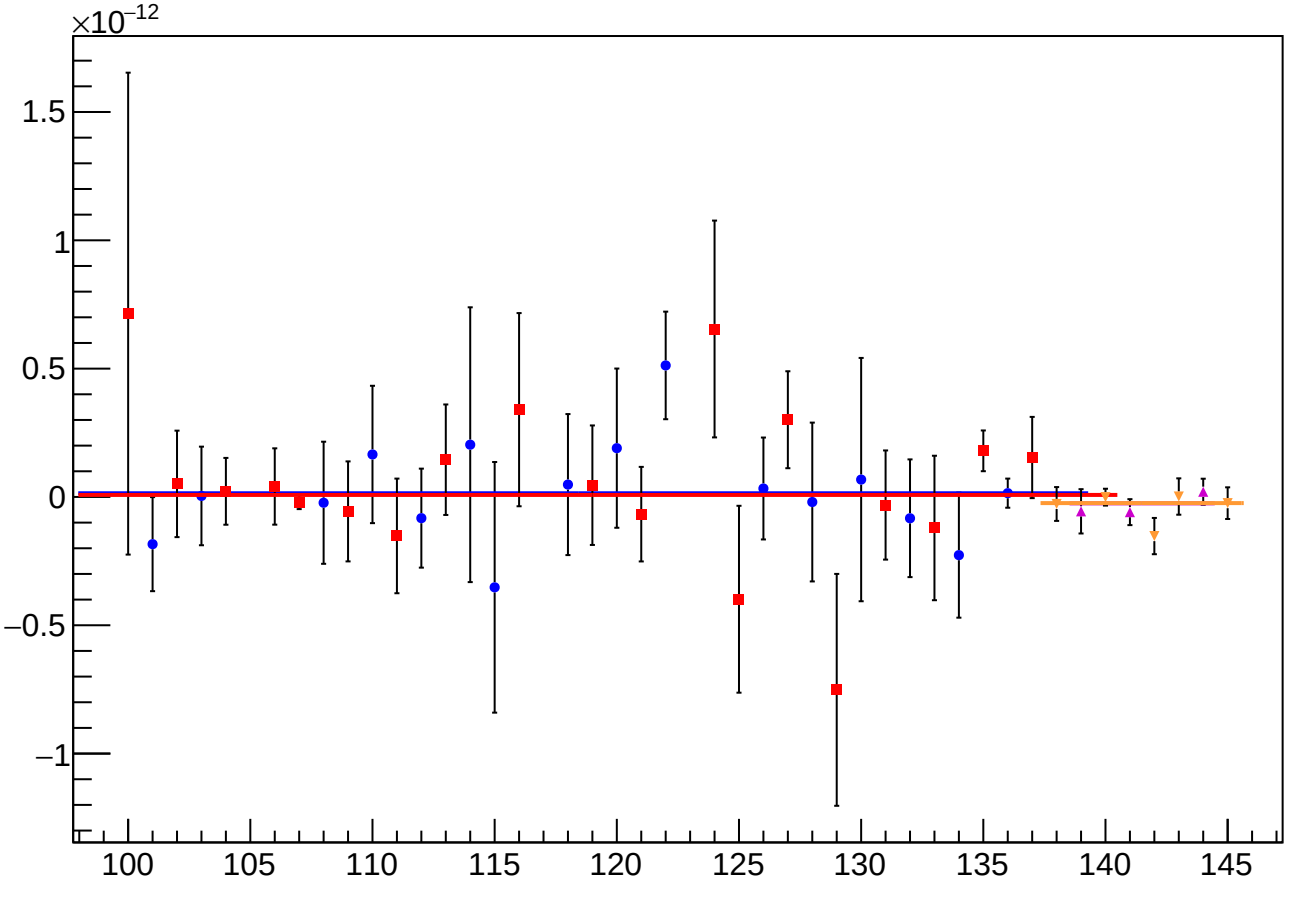
Left: 300.518+/-0.093 $\chi^2$/NDF: 1903386.7/7

Right: 159.464+/-0.033 $\chi^2$/NDF: 3421678.1/34

In: 178.090+/-0.044 $\chi^2$/NDF:2441937.8/18

Out: 171.770+/-0.043 $\chi^2$/NDF:4907859.0/23

All: 174.884+/-0.031 $\chi^2$/NDF: 7360283.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.4/2

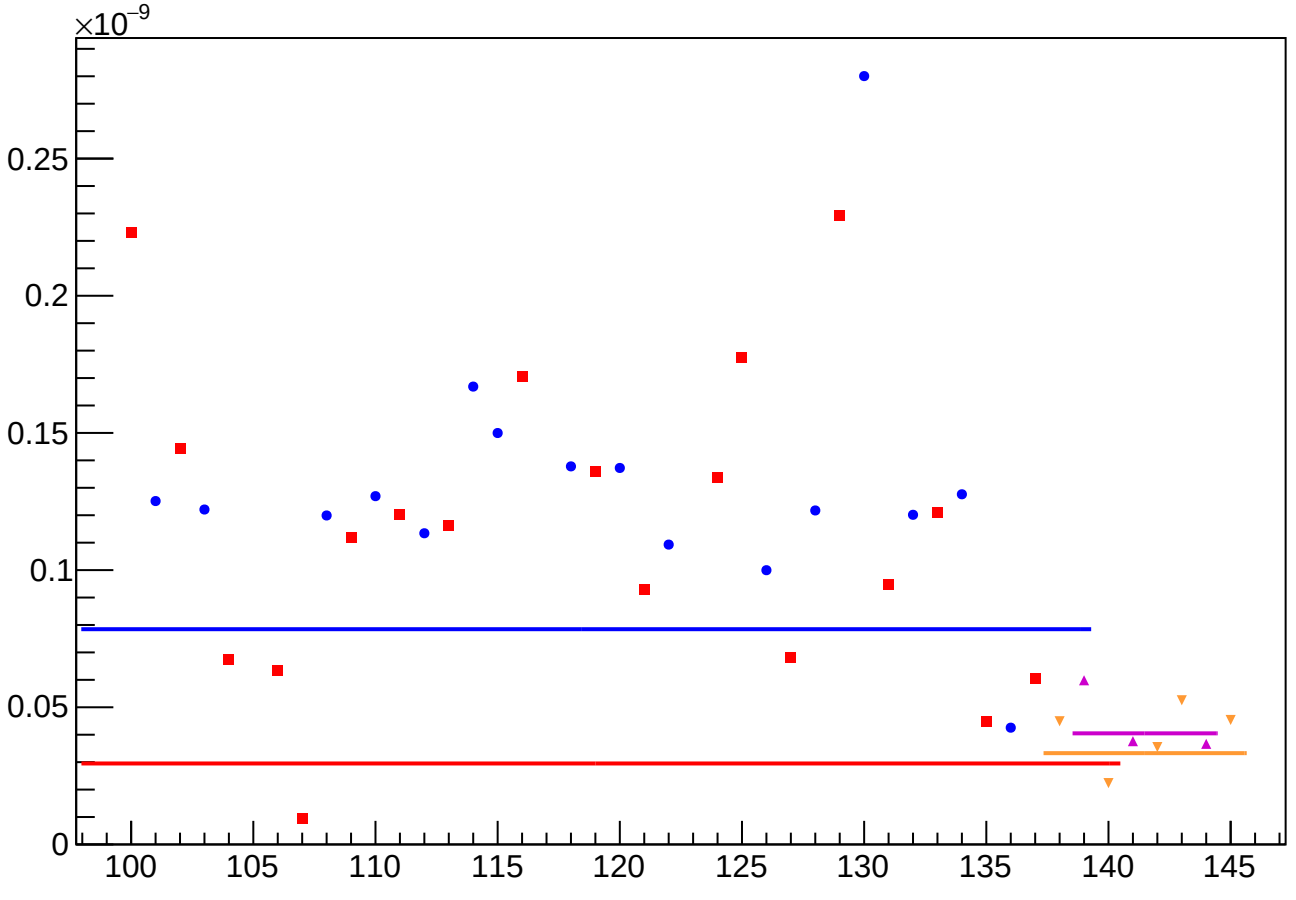
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:11.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 34.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2103056.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:510335.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5487361.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:118109.5/2

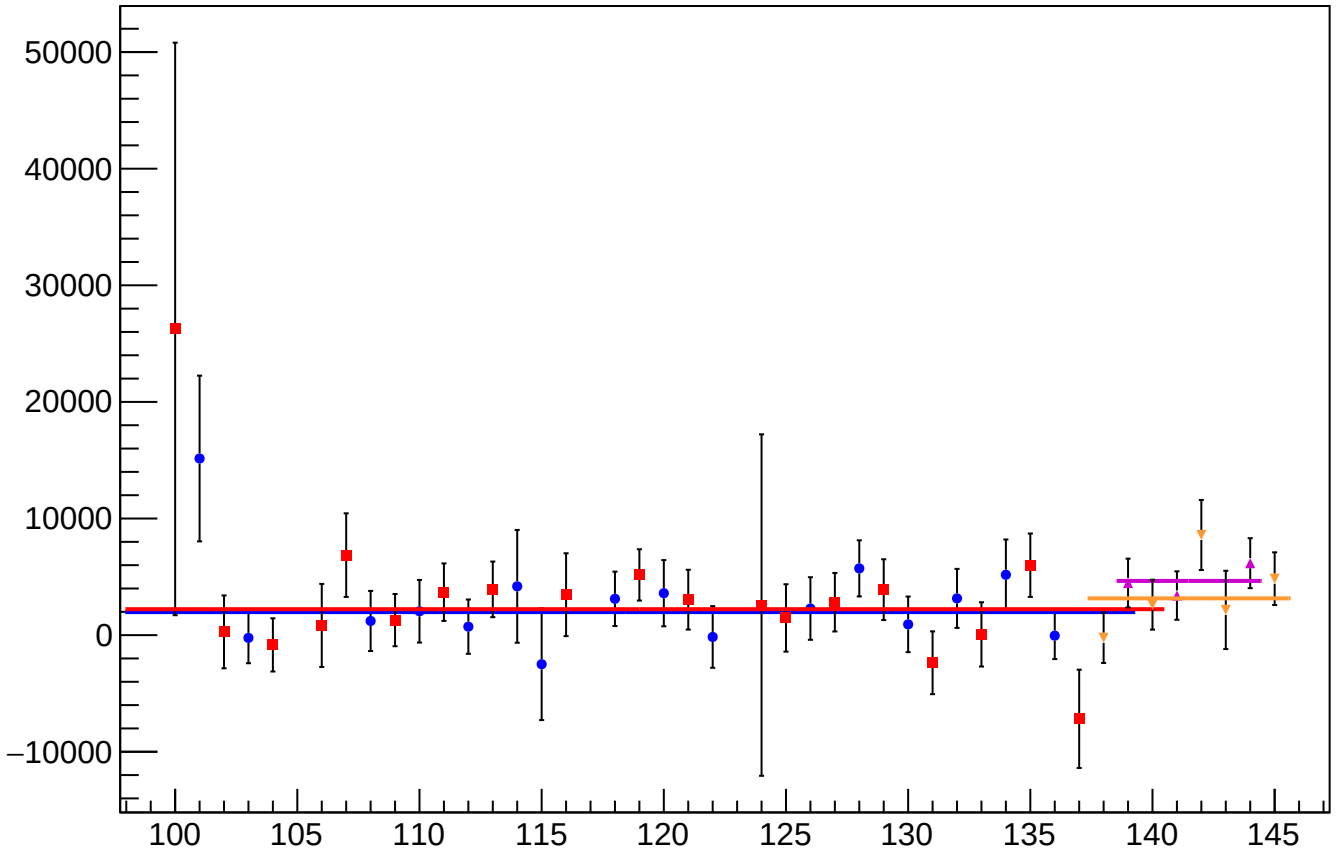
Left: 0.000+/-0.000 $\chi^2$/NDF: 691825.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 9651358.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:3217112.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:6024019.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 10405471.2/42




Right In: 1976.299+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 3154.120+/-1098.490 $\chi^2$/NDF:6.4/4

Right Out: 2226.171+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 4648.983+/-1214.283 $\chi^2$/NDF:0.9/2

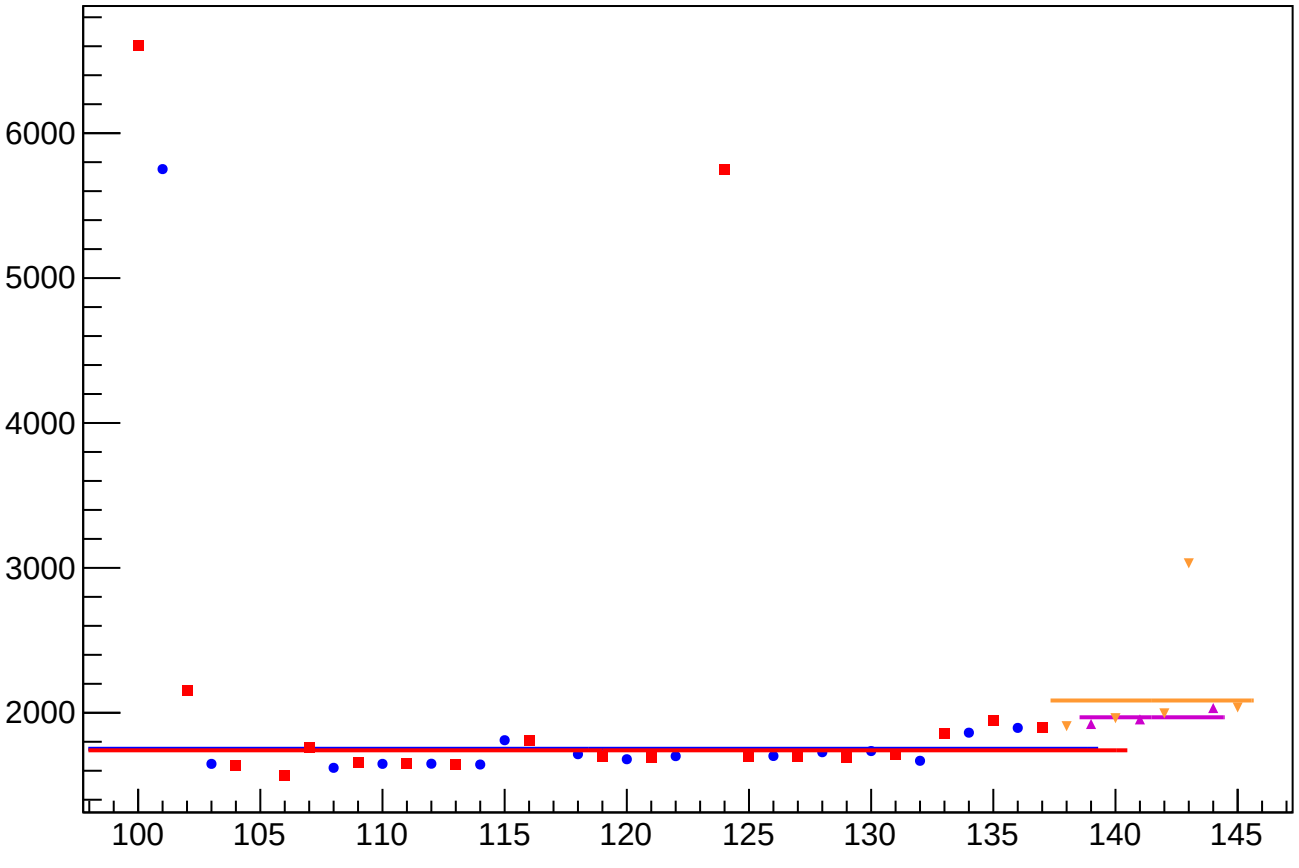
Left: 3826.896+/-814.619 $\chi^2$/NDF: 8.1/7

Right: 2103.390+/-468.051 $\chi^2$/NDF: 31.2/34

In: 2596.810+/-585.087 $\chi^2$/NDF:16.7/18

Out: 2470.265+/-563.395 $\chi^2$/NDF:25.9/23

All: 2531.148+/-405.833 $\chi^2$/NDF: 42.7/42




Right In: 1751.607+/-0.472 $\chi^2$/NDF: 670651.4/15

Left Out: 2084.849+/-0.777 $\chi^2$/NDF:181878.7/4

Right Out: 1741.052+/-0.461 $\chi^2$/NDF: 304655.0/18

Left In: 1968.986+/-0.859 $\chi^2$/NDF:2842.3/2

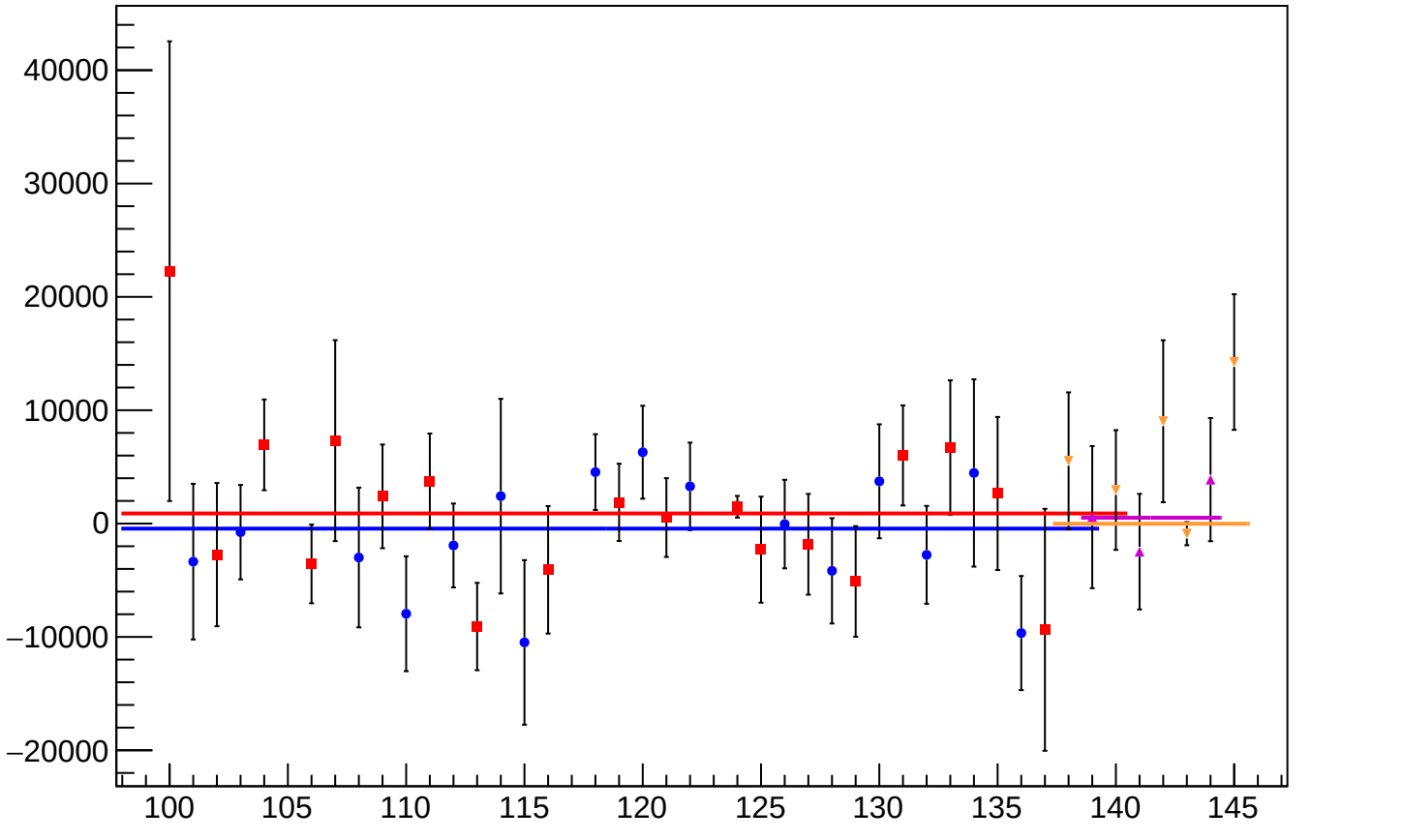
Left: 2032.704+/-0.576 $\chi^2$/NDF: 194734.7/7

Right: 1746.199+/-0.330 $\chi^2$/NDF: 975562.4/34

In: 1802.075+/-0.414 $\chi^2$/NDF:722708.3/18

Out: 1830.506+/-0.396 $\chi^2$/NDF:631464.1/23

All: 1816.905+/-0.286 $\chi^2$/NDF: 1356635.7/42




Right In: -444.273+/-1174.448 $\chi^2$/NDF: 15.9/15

Left Out: -16.512+/-967.927 $\chi^2$/NDF:9.2/4

Right Out: 892.237+/-725.737 $\chi^2$/NDF: 20.1/18

Left In: 516.363+/-3197.582 $\chi^2$/NDF:0.7/2

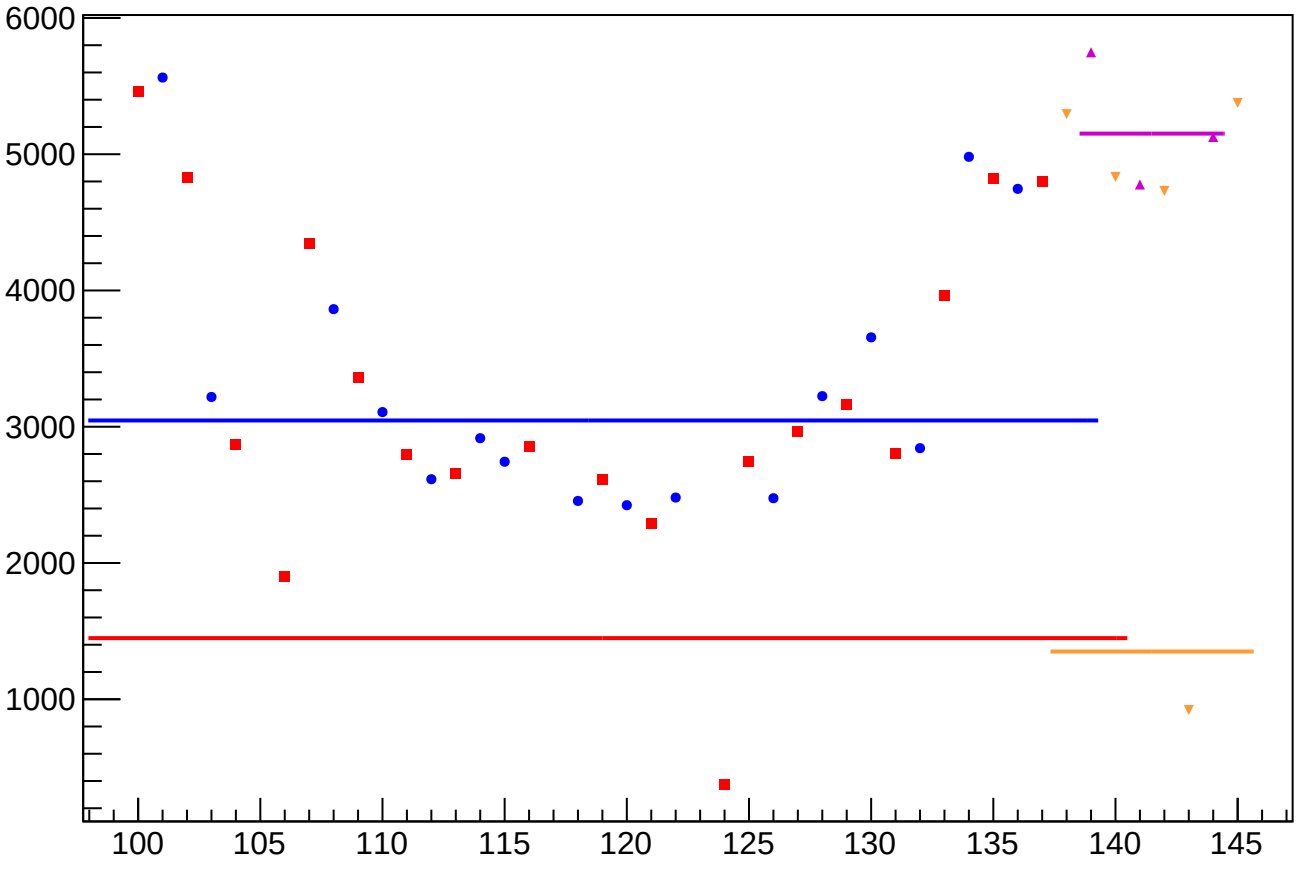
Left: 28.218+/-926.413 $\chi^2$/NDF: 9.9/7

Right: 522.917+/-617.375 $\chi^2$/NDF: 36.9/34

In: -330.084+/-1102.438 $\chi^2$/NDF:16.7/18

Out: 565.208+/-580.650 $\chi^2$/NDF:29.8/23

All: 370.782+/-513.747 $\chi^2$/NDF: 47.1/42




Right In: 3045.917+/-0.830 $\chi^2$/NDF: 907385.5/15

Left Out: 1350.312+/-0.684 $\chi^2$/NDF:3426612.4/4

Right Out: 1448.519+/-0.513 $\chi^2$/NDF: 6786925.8/18

Left In: 5151.250+/-2.261 $\chi^2$/NDF:28905.4/2

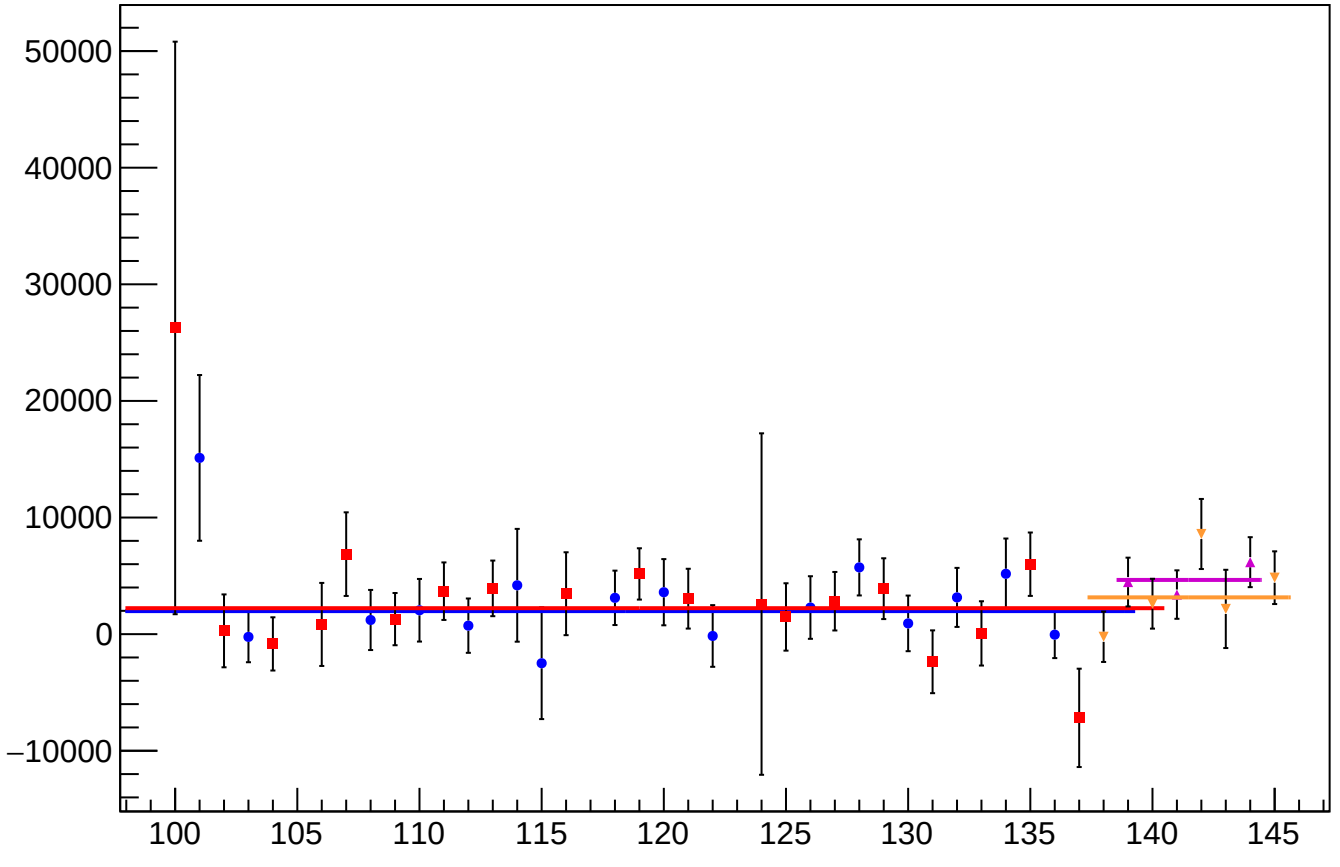
Left: 1669.361+/-0.655 $\chi^2$/NDF: 6044282.3/7

Right: 1889.931+/-0.437 $\chi^2$/NDF: 10371803.4/34

In: 3296.174+/-0.780 $\chi^2$/NDF:1700248.5/18

Out: 1413.178+/-0.411 $\chi^2$/NDF:10226717.9/23

All: 1822.099+/-0.363 $\chi^2$/NDF: 16494593.7/4




Right In: 1975.946+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 3154.375+/-1098.490 $\chi^2$/NDF:6.4/4

Right Out: 2226.267+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 4649.250+/-1214.283 $\chi^2$/NDF:0.9/2

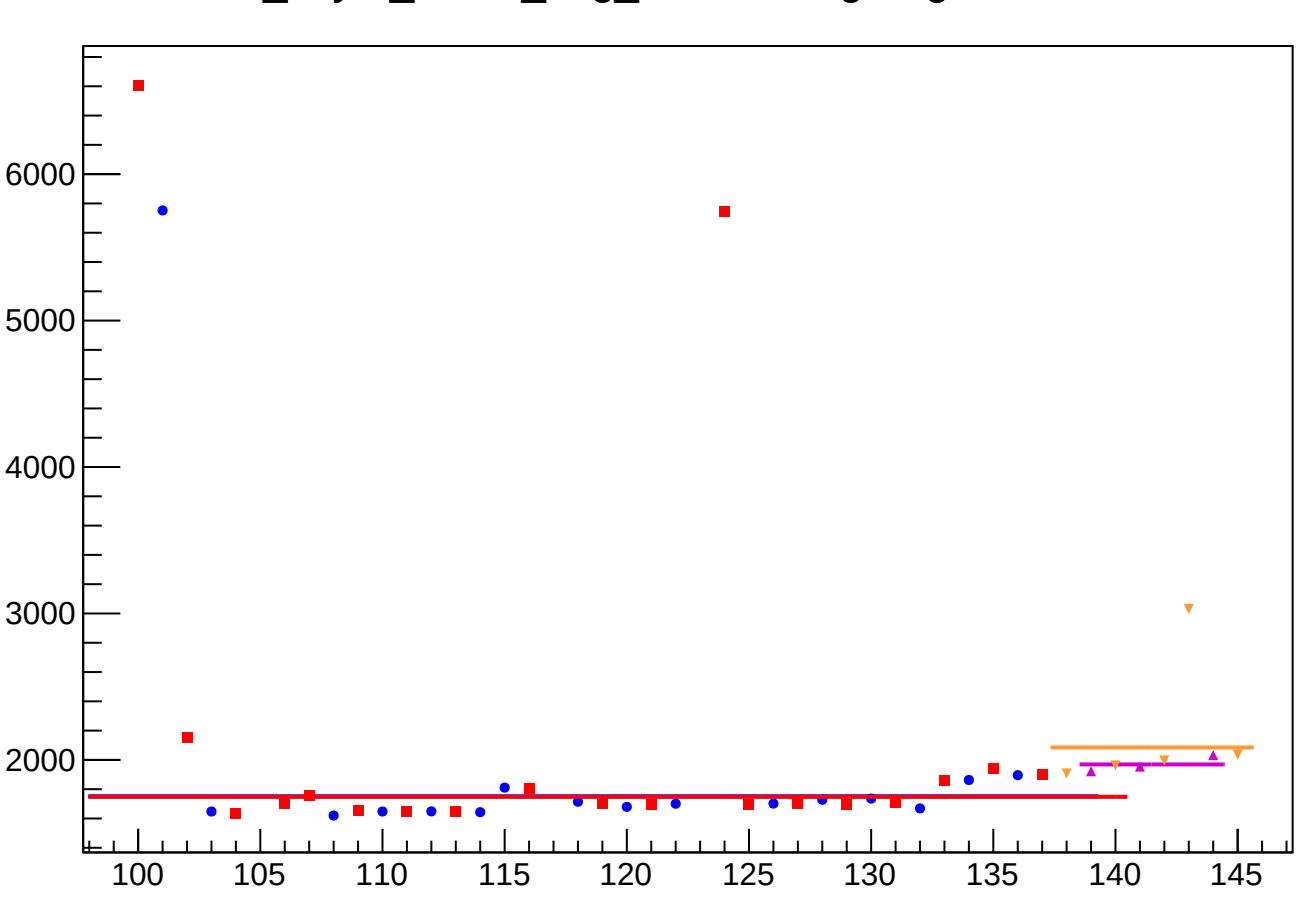
Left: 3827.156+/-814.619 $\chi^2$/NDF: 8.1/7

Right: 2103.266+/-468.051 $\chi^2$/NDF: 31.1/34

In: 2596.601+/-585.088 $\chi^2$/NDF:16.7/18

Out: 2470.403+/-563.395 $\chi^2$/NDF:25.9/23

All: 2531.119+/-405.833 $\chi^2$/NDF: 42.7/42




Right In: 1751.606+/-0.472 $\chi^2$/NDF: 670651.6/15

Left Out: 2084.849+/-0.777 $\chi^2$/NDF:181878.7/4

Right Out: 1747.786+/-0.462 $\chi^2$/NDF: 297917.6/18

Left In: 1968.986+/-0.859 $\chi^2$/NDF:2842.3/2

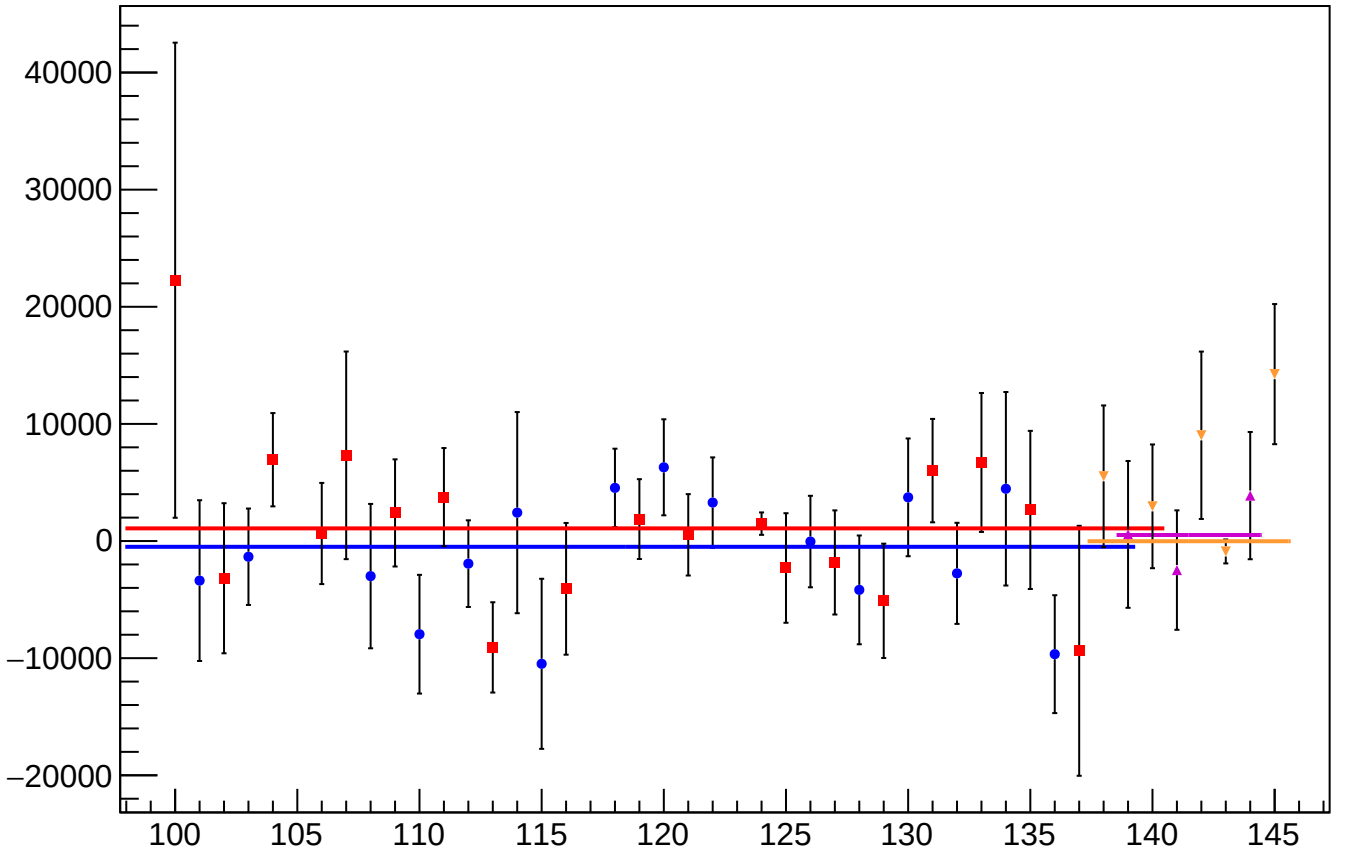
Left: 2032.704+/-0.576 $\chi^2$/NDF: 194734.7/7

Right: 1749.656+/-0.330 $\chi^2$/NDF: 968602.6/34

In: 1802.075+/-0.414 $\chi^2$/NDF:722708.7/18

Out: 1835.960+/-0.397 $\chi^2$/NDF:618841.0/23

All: 1819.704+/-0.287 $\chi^2$/NDF: 1345039.7/42




Right In: -492.916+/-1173.239 $\chi^2$/NDF: 16.0/15

Left Out: -16.282+/-967.892 $\chi^2$/NDF:9.2/4

Right Out: 1080.924+/-731.458 $\chi^2$/NDF: 18.5/18

Left In: 516.326+/-3197.583 $\chi^2$/NDF:0.7/2

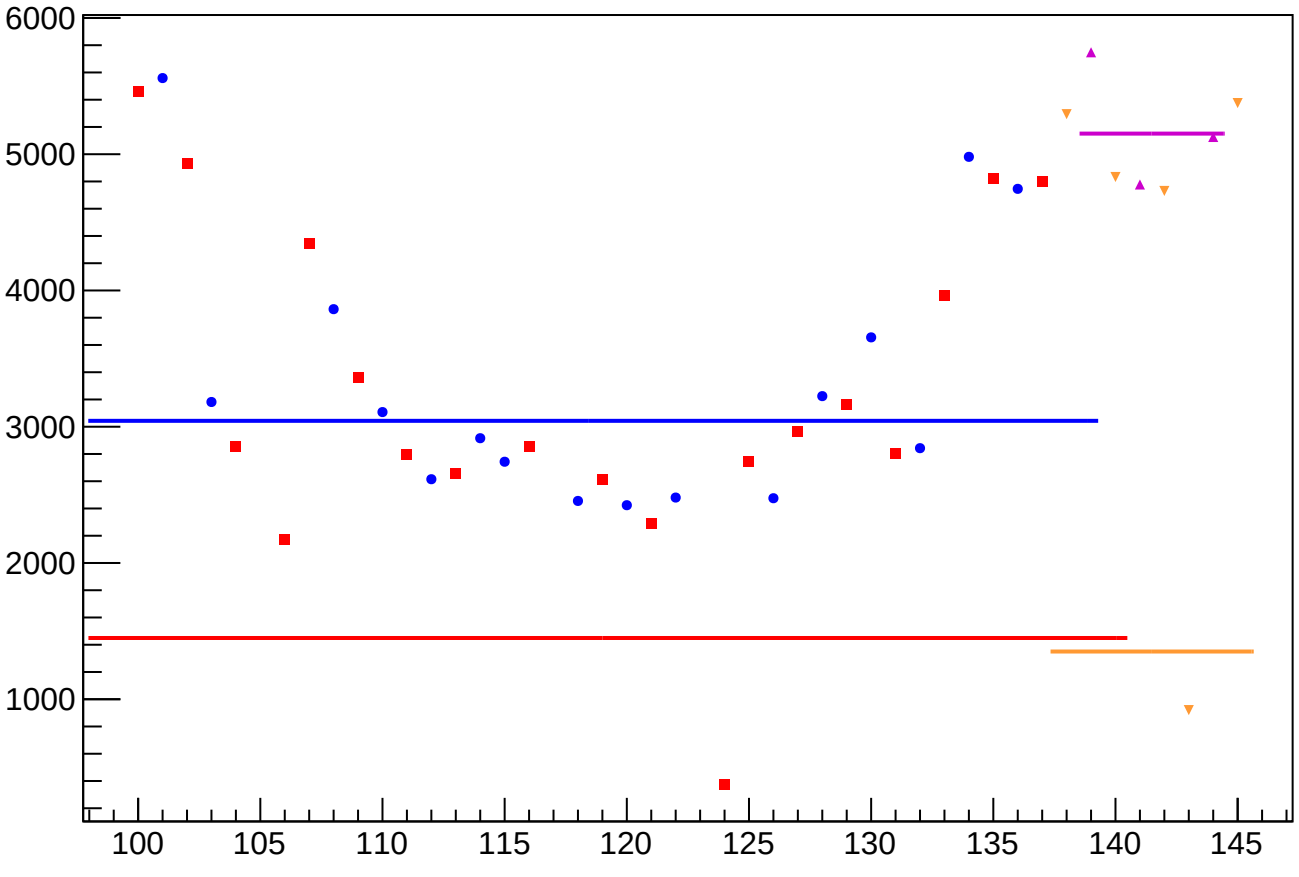
Left: 28.422+/-926.382 $\chi^2$/NDF: 9.9/7

Right: 640.409+/-620.707 $\chi^2$/NDF: 35.7/34

In: -373.167+/-1101.438 $\chi^2$/NDF:16.8/18

Out: 682.079+/-583.560 $\chi^2$/NDF:28.5/23

All: 450.790+/-515.657 $\chi^2$/NDF: 46.0/42




Right In: 3043.270+/-0.830 $\chi^2$/NDF: 905659.7/15

Left Out: 1350.246+/-0.684 $\chi^2$/NDF:3426699.9/4

Right Out: 1449.516+/-0.517 $\chi^2$/NDF: 6825716.5/18

Left In: 5151.251+/-2.261 $\chi^2$/NDF:28906.5/2

Left: 1669.279+/-0.655 $\chi^2$/NDF: 6044475.1/7

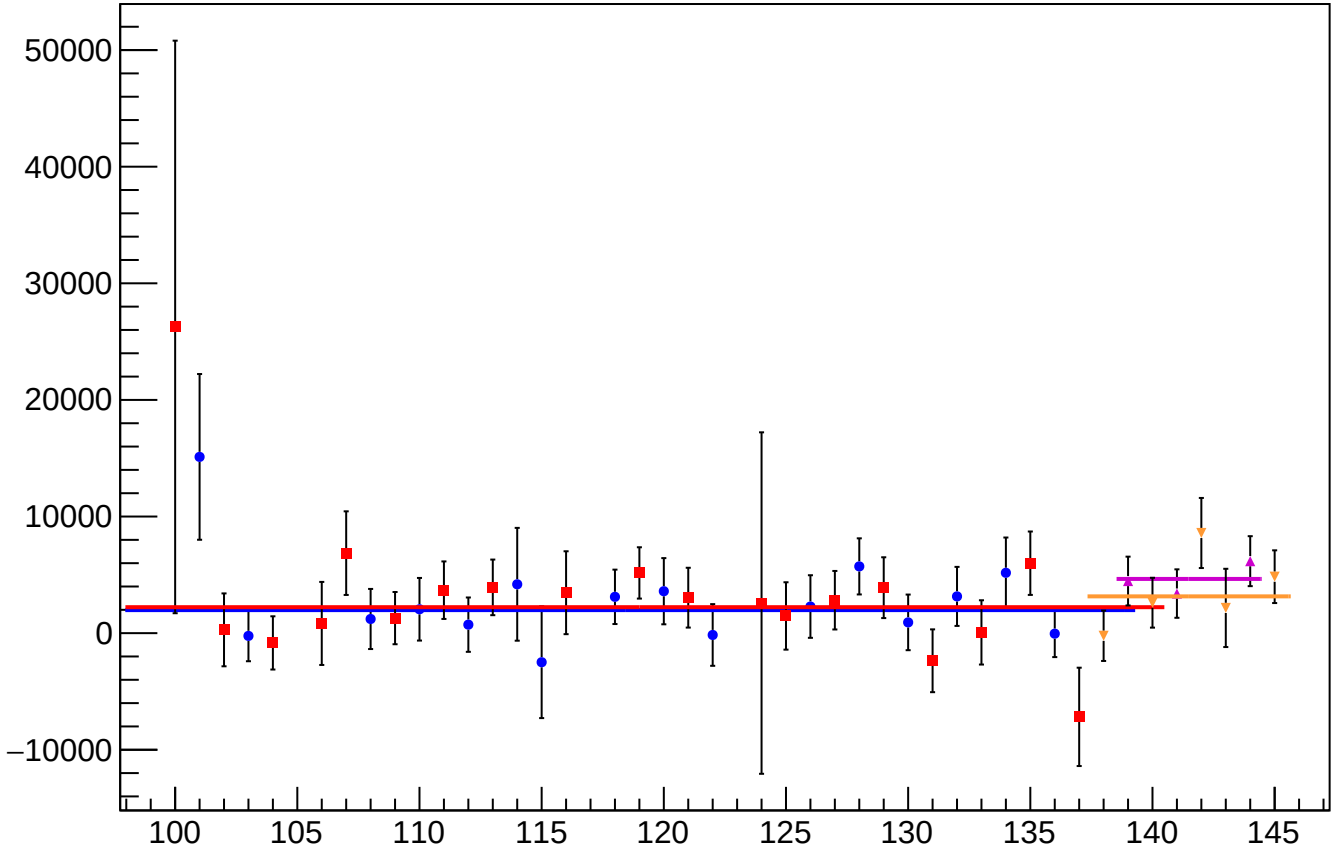
Right: 1895.604+/-0.439 $\chi^2$/NDF: 10389001.0/34

In: 3293.387+/-0.779 $\chi^2$/NDF:1700633.5/18

Out: 1413.430+/-0.413 $\chi^2$/NDF:10265807.0/23

All: 1825.479+/-0.365 $\chi^2$/NDF: 16515864.2/4

# eigen_cor_asym_atr1l2_avg_mean vs Slug, Sign Corrected




Right In: 1975.946+/-667.710 $\chi^2$/NDF: 12.1/15

Left Out: 3154.375+/-1098.490 $\chi^2$/NDF:6.4/4

Right Out: 2226.267+/-656.286 $\chi^2$/NDF: 19.0/18

Left In: 4649.250+/-1214.283 $\chi^2$/NDF:0.9/2

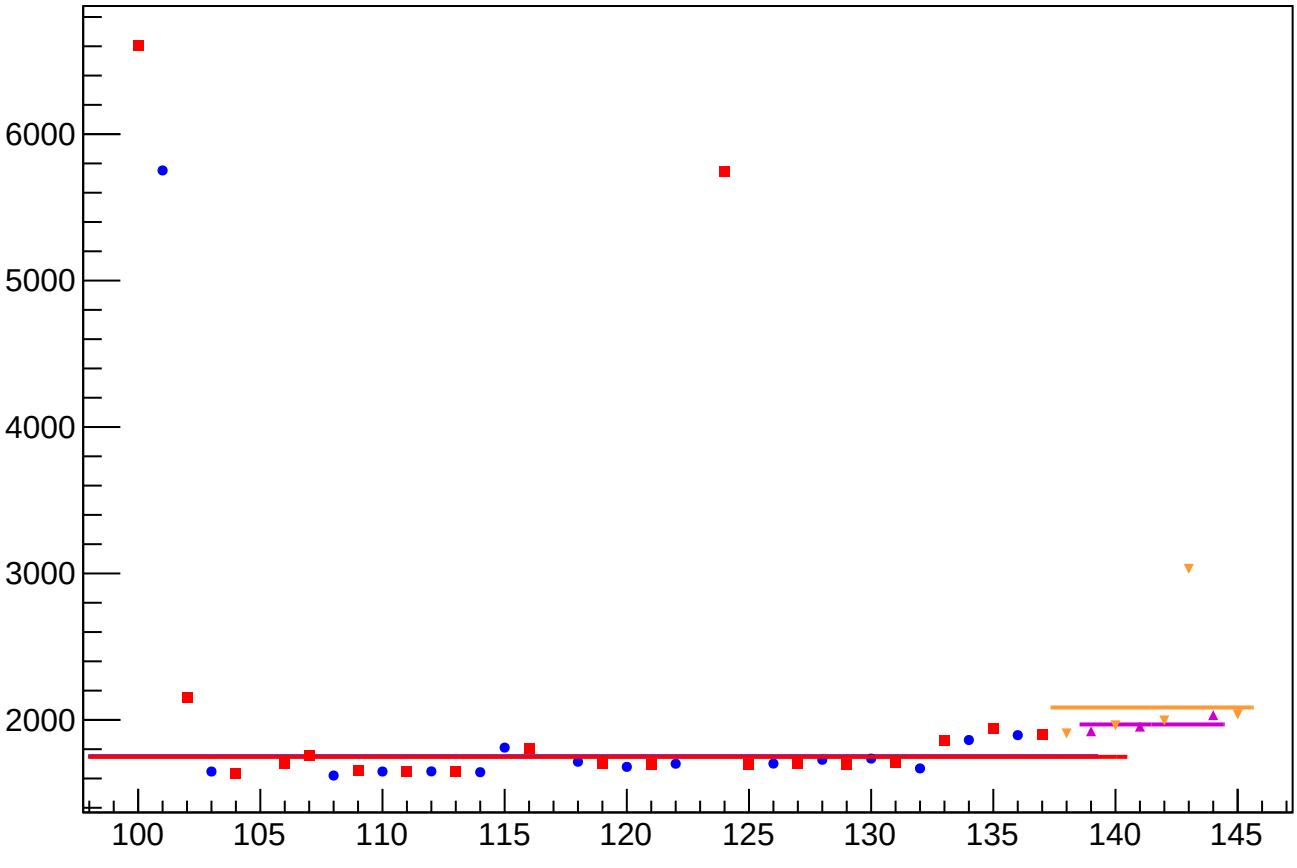
Left: 3827.156+/-814.619 $\chi^2$/NDF: 8.1/7

Right: 2103.266+/-468.051 $\chi^2$/NDF: 31.1/34

In: 2596.601+/-585.088 $\chi^2$/NDF:16.7/18

Out: 2470.403+/-563.395 $\chi^2$/NDF:25.9/23

All: 2531.119+/-405.833 $\chi^2$/NDF: 42.7/42




Right In: 1751.606+/-0.472 $\chi^2$/NDF: 670651.6/15

Left Out: 2084.849+/-0.777 $\chi^2$/NDF:181878.7/4

Right Out: 1747.786+/-0.462 $\chi^2$/NDF: 297917.6/18

Left In: 1968.986+/-0.859 $\chi^2$/NDF:2842.3/2

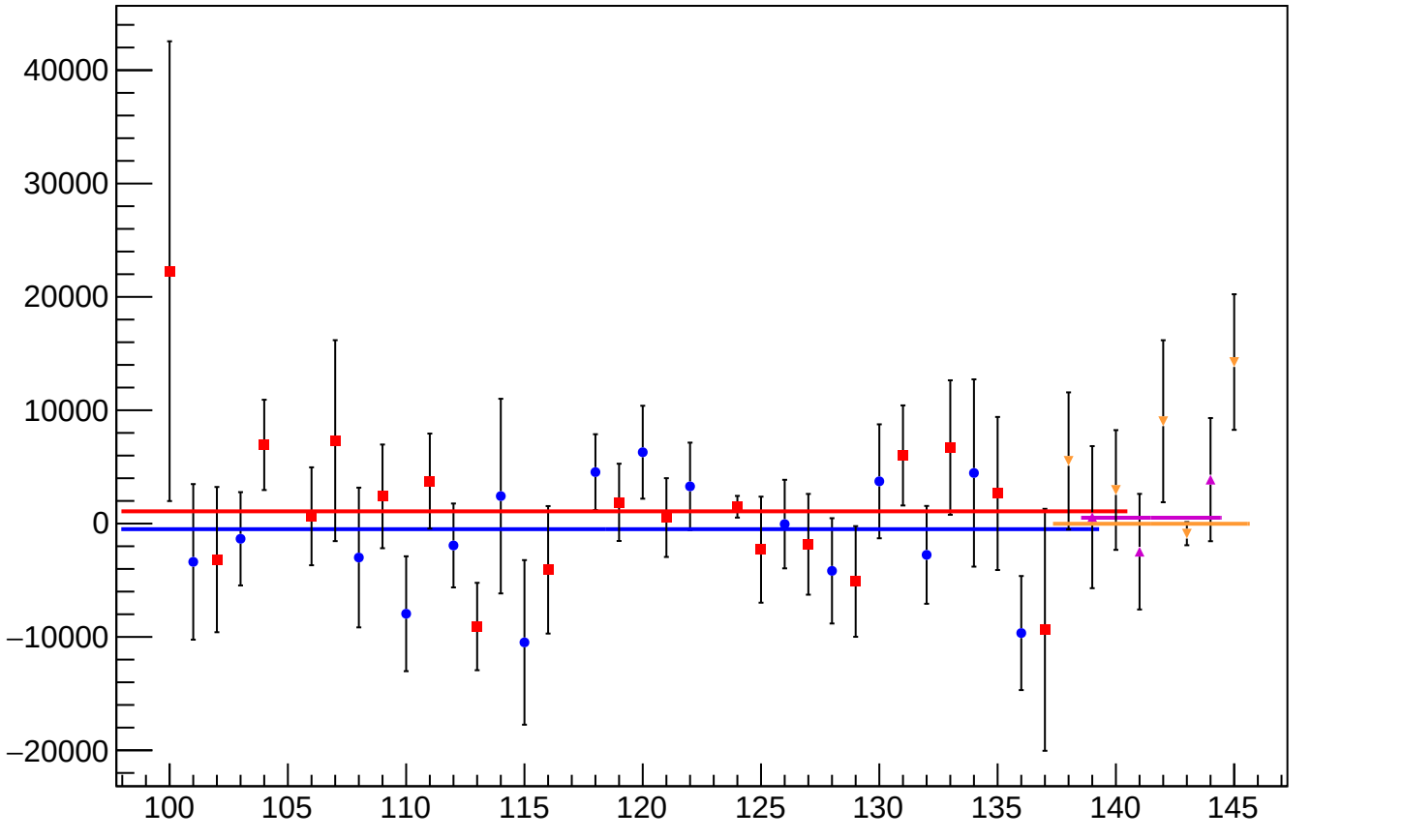
Left: 2032.704+/-0.576 $\chi^2$/NDF: 194734.7/7

Right: 1749.656+/-0.330 $\chi^2$/NDF: 968602.6/34

In: 1802.075+/-0.414 $\chi^2$/NDF:722708.7/18

Out: 1835.960+/-0.397 $\chi^2$/NDF:618841.0/23

All: 1819.704+/-0.287 $\chi^2$/NDF: 1345039.7/42




Right In: -492.916+/-1173.239 $\chi^2$/NDF: 16.0/15

Left Out: -16.282+/-967.892 $\chi^2$/NDF:9.2/4

Right Out: 1080.924+/-731.458 $\chi^2$/NDF: 18.5/18

Left In: 516.326+/-3197.583 $\chi^2$/NDF:0.7/2

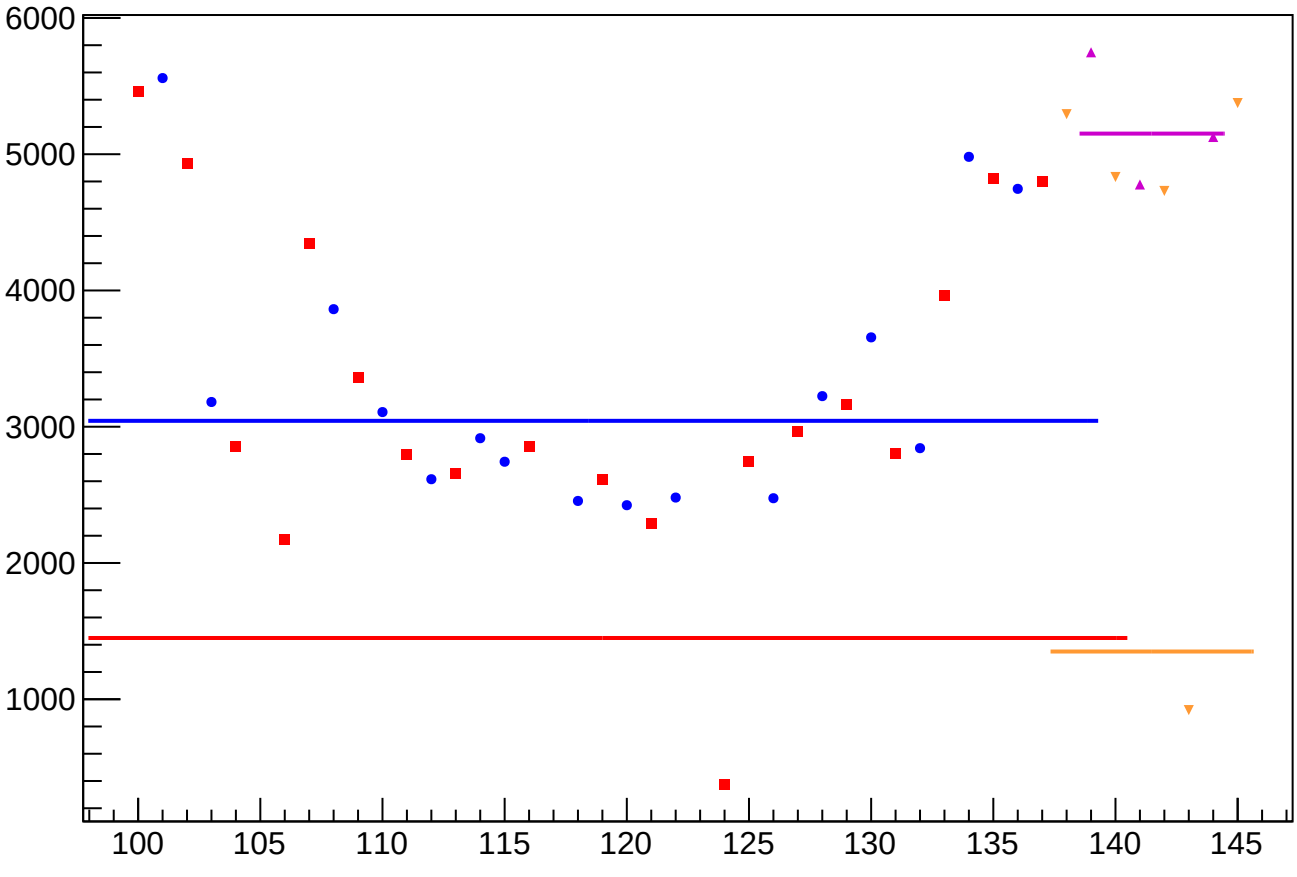
Left: 28.422+/-926.382 $\chi^2$/NDF: 9.9/7

Right: 640.409+/-620.707 $\chi^2$/NDF: 35.7/34

In: -373.167+/-1101.438 $\chi^2$/NDF:16.8/18

Out: 682.079+/-583.560 $\chi^2$/NDF:28.5/23

All: 450.790+/-515.657 $\chi^2$/NDF: 46.0/42




Right In: 3043.270+/-0.830 $\chi^2$/NDF: 905659.7/15

Left Out: 1350.246+/-0.684 $\chi^2$/NDF:3426699.9/4

Right Out: 1449.516+/-0.517 $\chi^2$/NDF: 6825716.5/18

Left In: 5151.251+/-2.261 $\chi^2$/NDF:28906.5/2

Left: 1669.279+/-0.655 $\chi^2$/NDF: 6044475.1/7

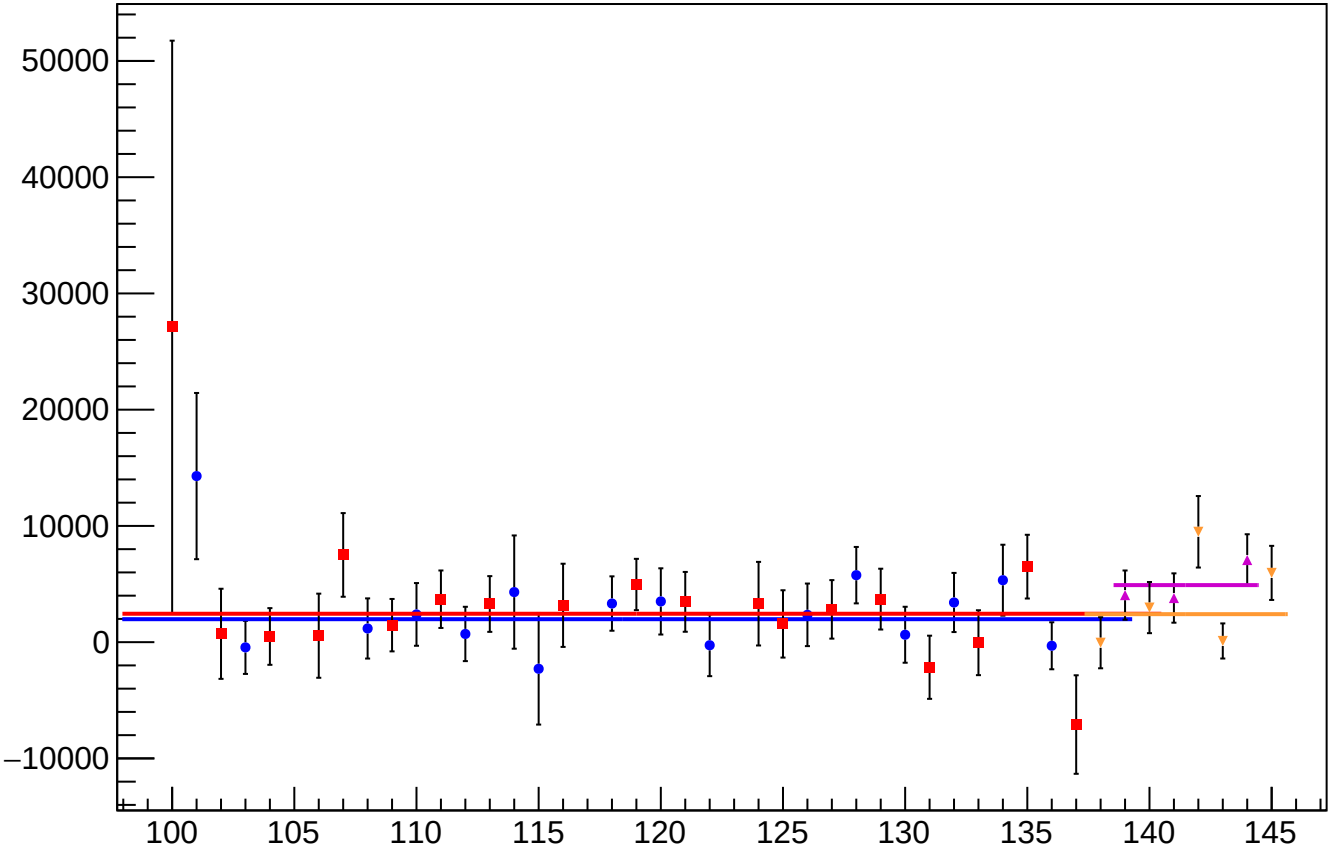
Right: 1895.604+/-0.439 $\chi^2$/NDF: 10389001.0/34

In: 3293.387+/-0.779 $\chi^2$/NDF:1700633.5/18

Out: 1413.430+/-0.413 $\chi^2$/NDF:10265807.0/23

All: 1825.479+/-0.365 $\chi^2$/NDF: 16515864.2/4

# dit_asym_atr1l2_avg_mean vs Slug, Sign Corrected




Right In: 1975.804+/-674.086 $\chi^2$/NDF: 12.4/15

Left Out: 2409.292+/-935.529 $\chi^2$/NDF:11.3/4

Right Out: 2444.199+/-657.682 $\chi^2$/NDF: 17.5/18

Left In: 4908.645+/-1241.932 $\chi^2$/NDF:1.4/2

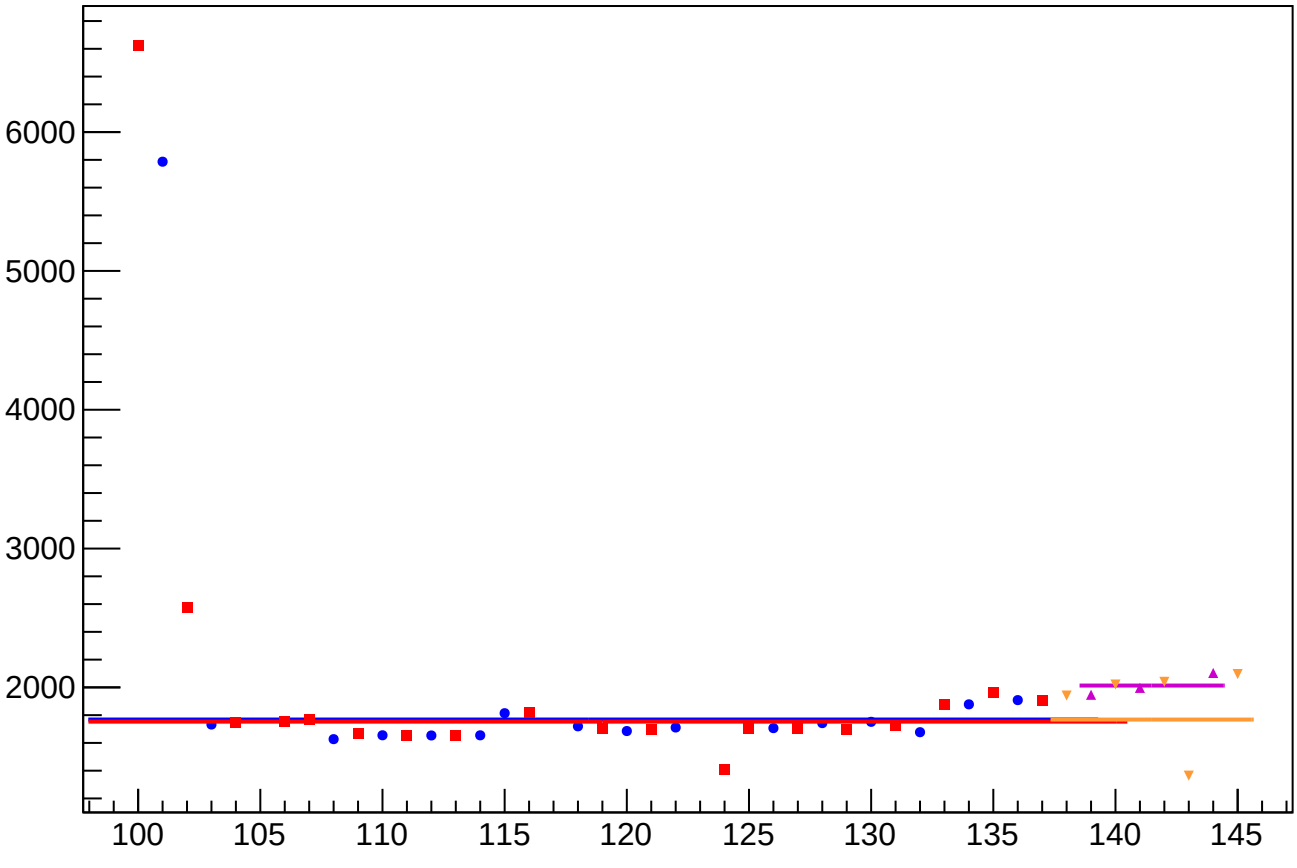
Left: 3314.099+/-747.243 $\chi^2$/NDF: 15.3/7

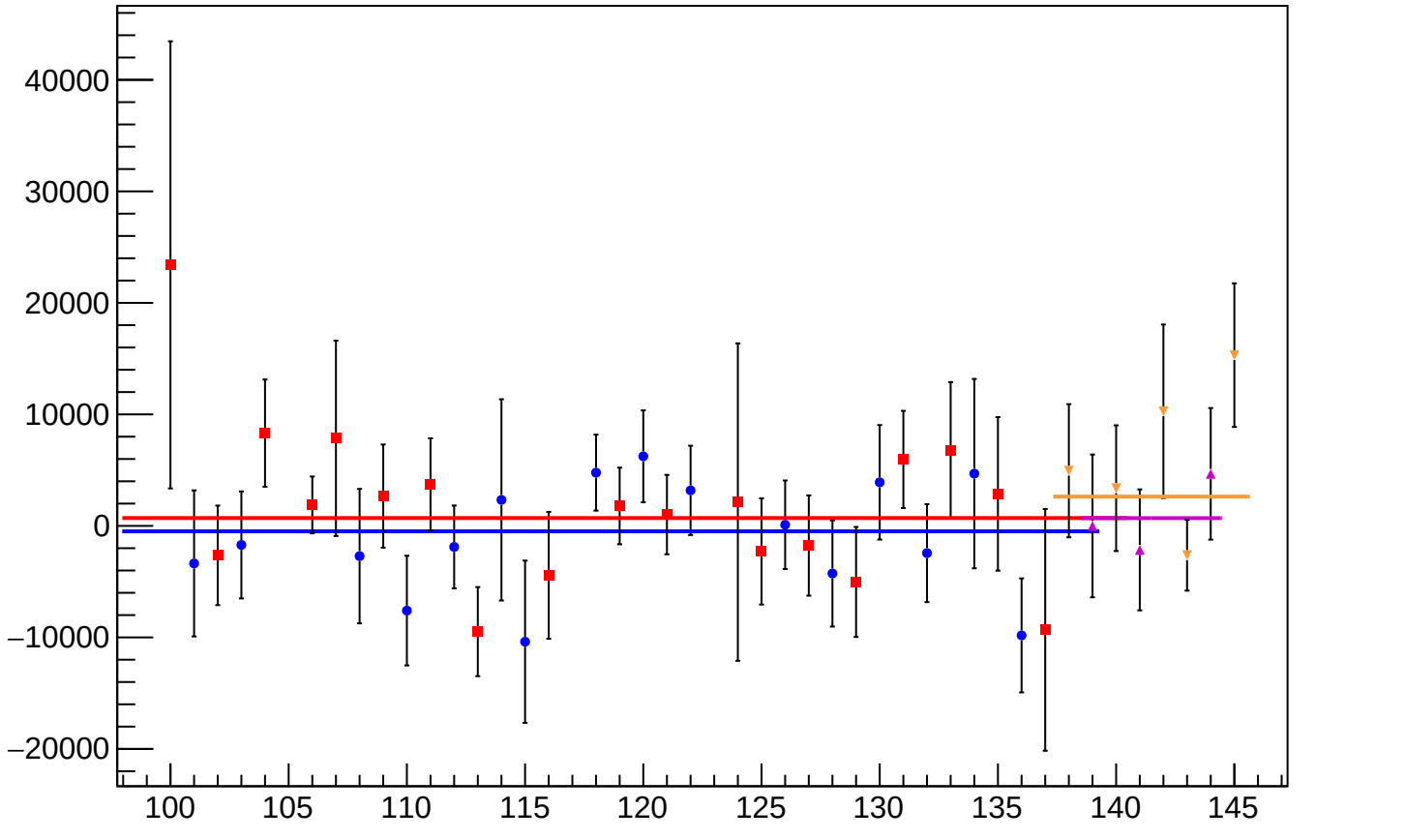
Right: 2215.770+/-470.744 $\chi^2$/NDF: 30.1/34

In: 2643.207+/-592.444 $\chi^2$/NDF:18.1/18

Out: 2432.653+/-538.034 $\chi^2$/NDF:28.8/23

All: 2527.819+/-398.297 $\chi^2$/NDF: 46.9/42


dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
100
105
110
115
120
125
130
135
140
145
Right In: 1768.480+/-0.477 χ²/NDF: 667367.4/15
Left Out: 1768.232+/-0.662 χ²/NDF:237179.8/4
Right Out: 1753.383+/-0.464 χ²/NDF: 218864.4/18
Left In: 2013.191+/-0.878 χ²/NDF:5433.1/2
Left: 1856.911+/-0.528 χ²/NDF: 292252.8/7
Right: 1760.725+/-0.332 χ²/NDF: 886747.1/34
In: 1824.167+/-0.419 χ²/NDF:732780.4/18
Out: 1758.277+/-0.380 χ²/NDF:456382.0/23
All: 1788.000+/-0.281 χ²/NDF: 1202741.4/42




Right In: -488.104+/-1198.506 $\chi^2$/NDF: 15.8/15

Left Out: 2627.047+/-2240.148 $\chi^2$/NDF:7.8/4

Right Out: 703.324+/-1069.467 $\chi^2$/NDF: 18.8/18

Left In: 698.234+/-3387.832 $\chi^2$/NDF:0.7/2

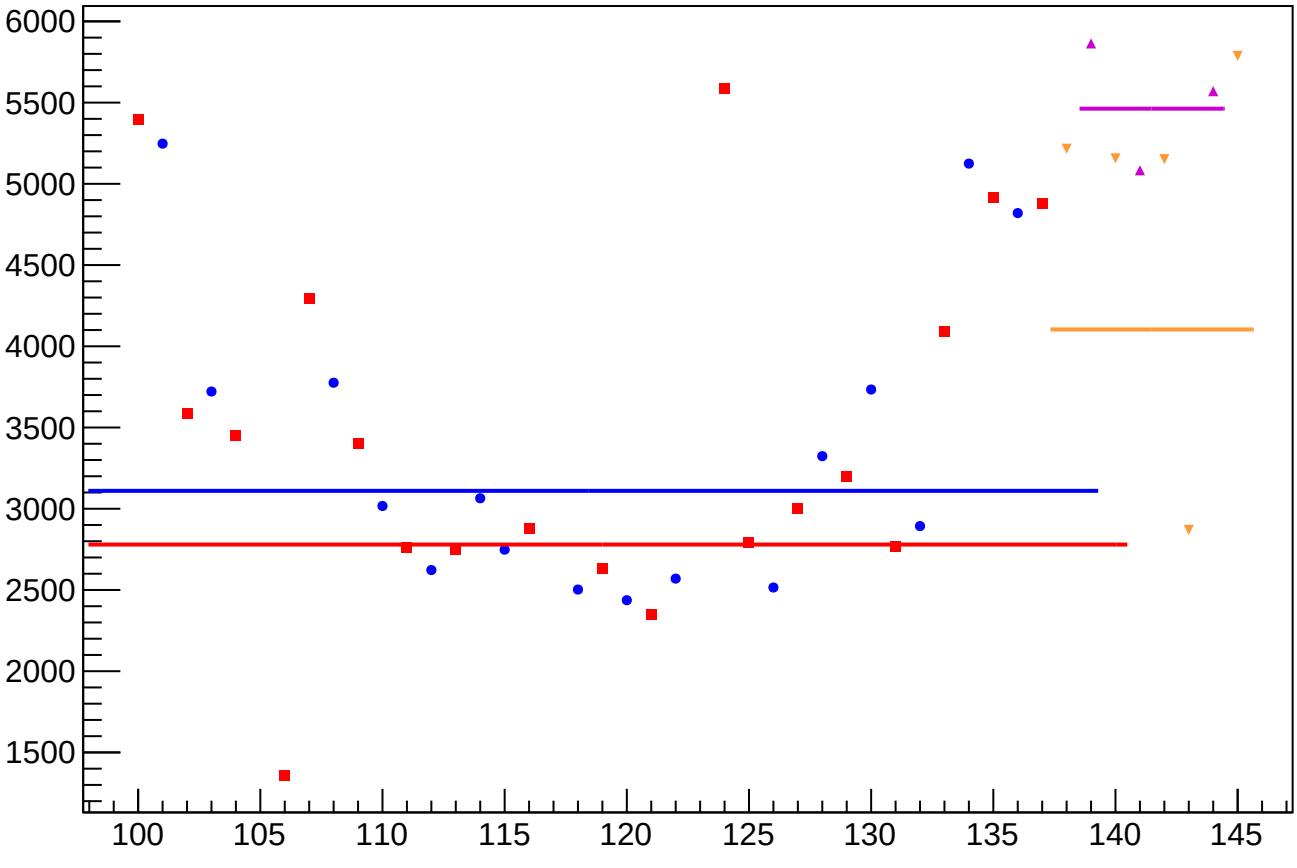
Left: 2040.269+/-1868.588 $\chi^2$/NDF: 8.7/7

Right: 175.178+/-797.963 $\chi^2$/NDF: 35.1/34

In: -356.147+/-1129.886 $\chi^2$/NDF:16.6/18

Out: 1060.394+/-965.123 $\chi^2$/NDF:27.2/23

All: 462.843+/-733.850 $\chi^2$/NDF: 44.7/42




Right In: 3110.133+/-0.847 $\chi^2$/NDF: 883262.4/15

Left Out: 4103.528+/-1.584 $\chi^2$/NDF:614082.6/4

Right Out: 2779.630+/-0.756 $\chi^2$/NDF: 1348141.7/18

Left In: 5462.744+/-2.396 $\chi^2$/NDF:18318.9/2

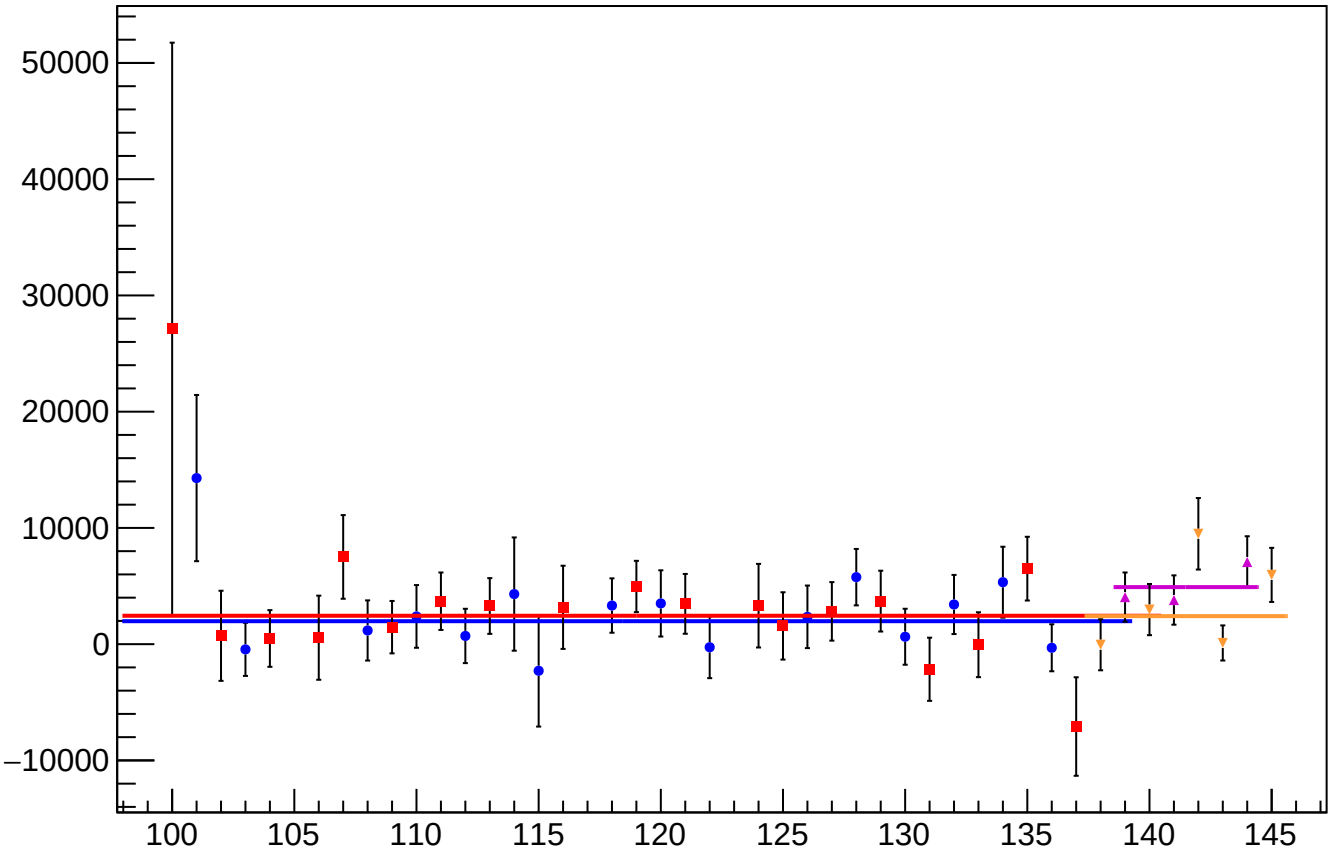
Left: 4517.025+/-1.321 $\chi^2$/NDF: 856395.8/7

Right: 2926.138+/-0.564 $\chi^2$/NDF: 2316074.2/34

In: 3371.816+/-0.799 $\chi^2$/NDF:1758768.6/18

Out: 3025.365+/-0.682 $\chi^2$/NDF:2531097.9/23

All: 3171.511+/-0.519 $\chi^2$/NDF: 4398582.8/42




Right In: 1975.805+/-674.086 $\chi^2$/NDF: 12.4/15

Left Out: 2409.301+/-935.530 $\chi^2$/NDF:11.3/4

Right Out: 2444.199+/-657.682 $\chi^2$/NDF: 17.5/18

Left In: 4908.647+/-1241.933 $\chi^2$/NDF:1.4/2

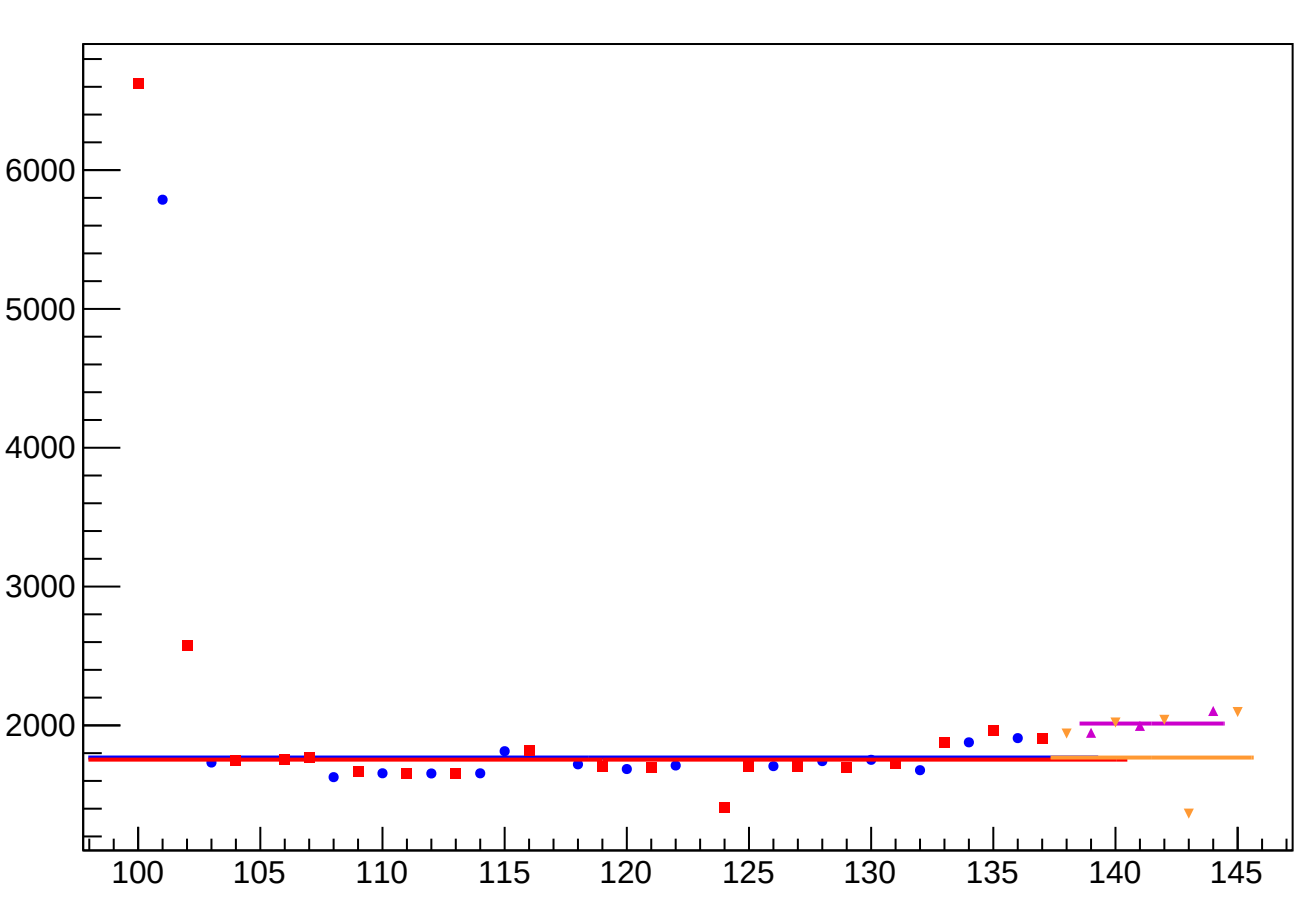
Left: 3314.106+/-747.244 $\chi^2$/NDF: 15.3/7

Right: 2215.771+/-470.744 $\chi^2$/NDF: 30.1/34

In: 2643.207+/-592.444 $\chi^2$/NDF:18.1/18

Out: 2432.657+/-538.034 $\chi^2$/NDF:28.8/23

All: 2527.821+/-398.297 $\chi^2$/NDF: 46.9/42




Right In: 1768.480+/-0.477 $\chi^2$/NDF: 667367.4/15

Left Out: 1768.233+/-0.662 $\chi^2$/NDF:237180.8/4

Right Out: 1753.382+/-0.464 $\chi^2$/NDF: 218864.3/18

Left In: 2013.193+/-0.878 $\chi^2$/NDF:5433.2/2

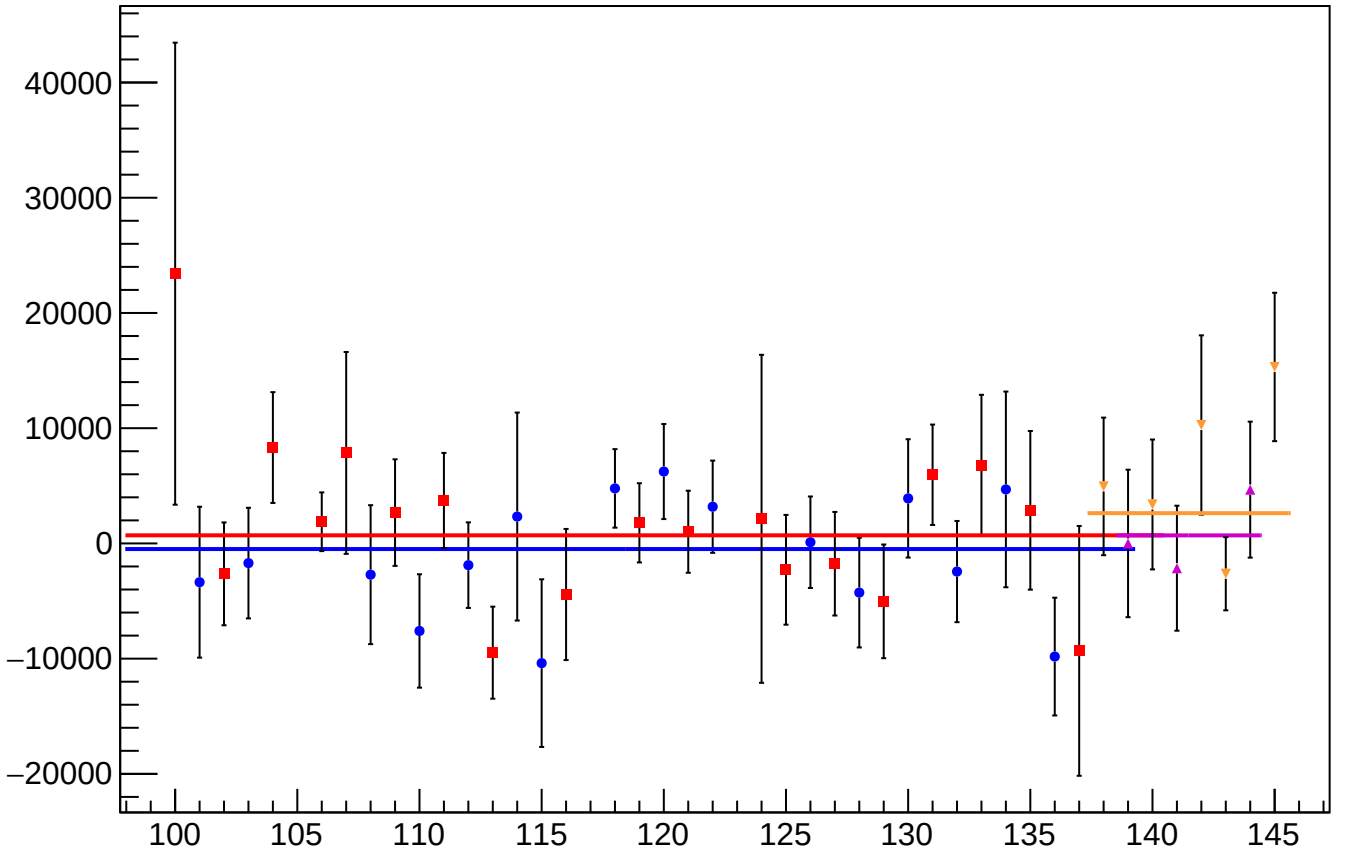
Left: 1856.912+/-0.528 $\chi^2$/NDF: 292254.2/7

Right: 1760.725+/-0.332 $\chi^2$/NDF: 886747.0/34

In: 1824.167+/-0.419 $\chi^2$/NDF:732781.1/18

Out: 1758.277+/-0.380 $\chi^2$/NDF:456383.0/23

All: 1788.000+/-0.281 $\chi^2$/NDF: 1202743.3/42




Right In: -488.098+/-1198.502 $\chi^2$/NDF: 15.8/15

Left Out: 2627.046+/-2240.151 $\chi^2$/NDF:7.8/4

Right Out: 703.325+/-1069.463 $\chi^2$/NDF: 18.8/18

Left In: 698.236+/-3387.839 $\chi^2$/NDF:0.7/2

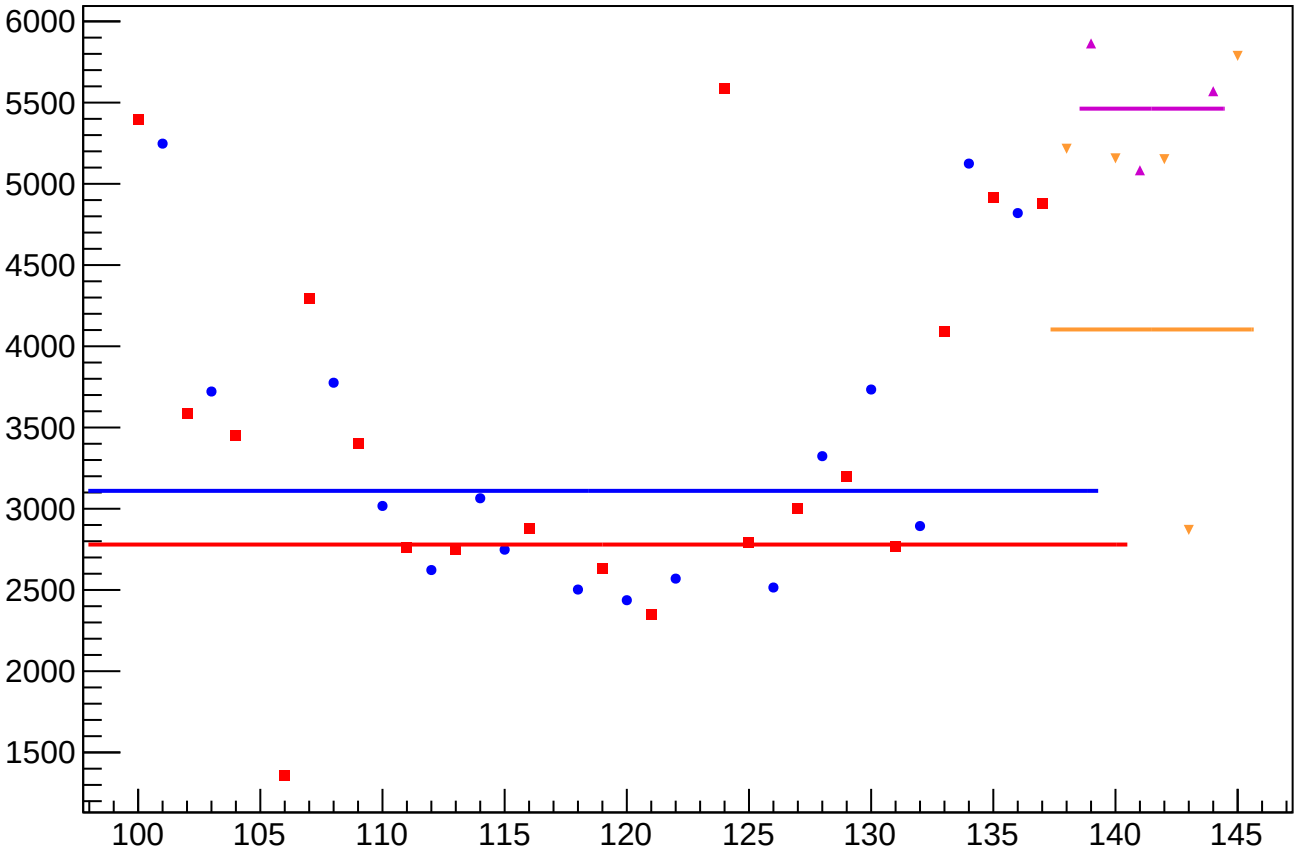
Left: 2040.270+/-1868.591 $\chi^2$/NDF: 8.7/7

Right: 175.182+/-797.960 $\chi^2$/NDF: 35.1/34

In: -356.142+/-1129.883 $\chi^2$/NDF:16.6/18

Out: 1060.392+/-965.120 $\chi^2$/NDF:27.2/23

All: 462.845+/-733.848 $\chi^2$/NDF: 44.7/42




Right In: 3110.121+/-0.847 $\chi^2$/NDF: 883272.2/15

Left Out: 4103.532+/-1.584 $\chi^2$/NDF:614087.6/4

Right Out: 2779.617+/-0.756 $\chi^2$/NDF: 1348160.7/18

Left In: 5462.756+/-2.396 $\chi^2$/NDF:18319.3/2

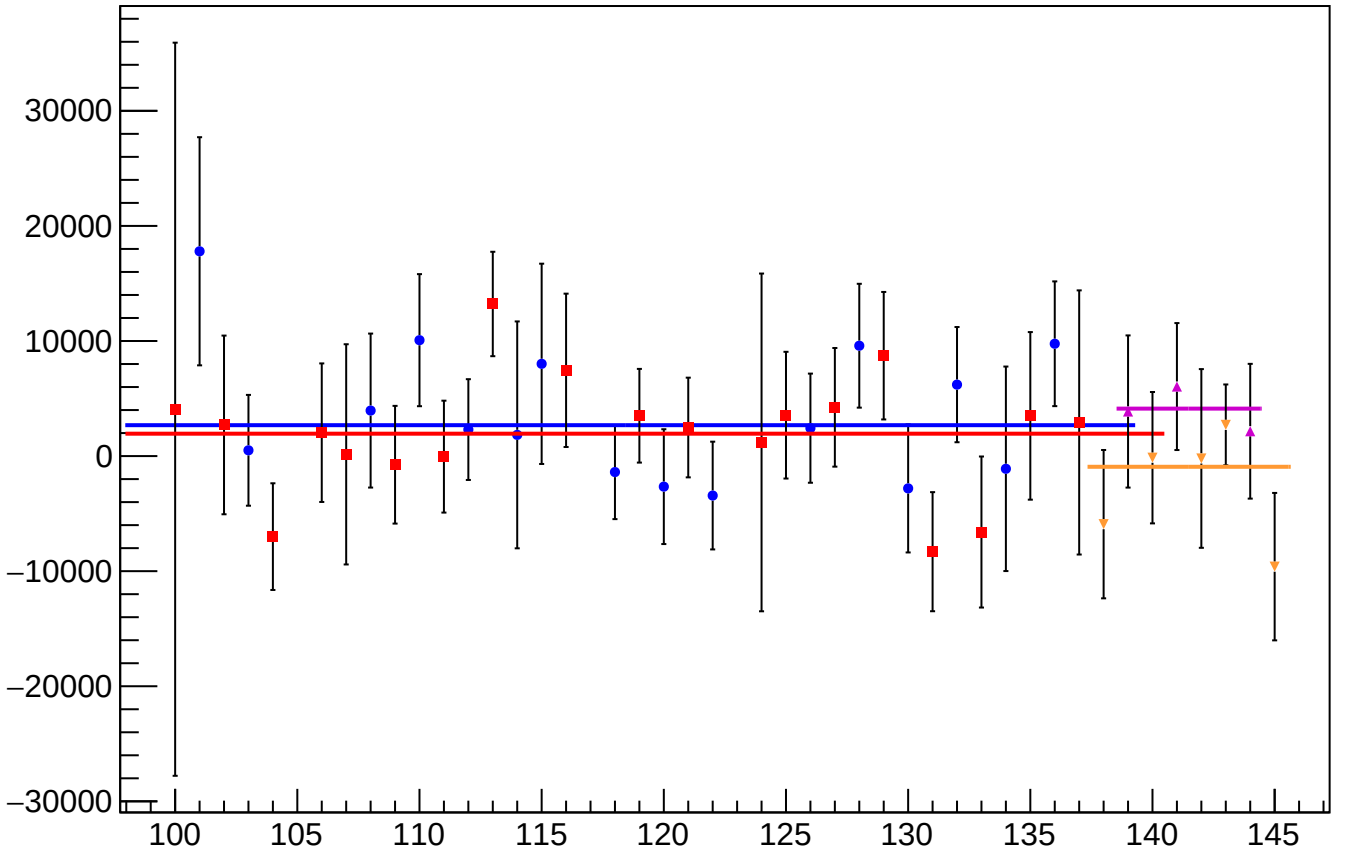
Left: 4517.031+/-1.321 $\chi^2$/NDF: 856403.0/7

Right: 2926.126+/-0.564 $\chi^2$/NDF: 2316104.6/34

In: 3371.805+/-0.799 $\chi^2$/NDF:1758793.0/18

Out: 3025.353+/-0.682 $\chi^2$/NDF:2531136.1/23

All: 3171.499+/-0.519 $\chi^2$/NDF: 4398646.5/42




Right In: 2685.414+/-1379.907 $\chi^2$/NDF: 13.5/15

Left Out: -929.944+/-2378.225 $\chi^2$/NDF:3.5/4

Right Out: 1945.685+/-1332.986 $\chi^2$/NDF: 18.7/18

Left In: 4124.047+/-3431.880 $\chi^2$/NDF:0.2/2

Left: 709.700+/-1954.743 $\chi^2$/NDF: 5.2/7

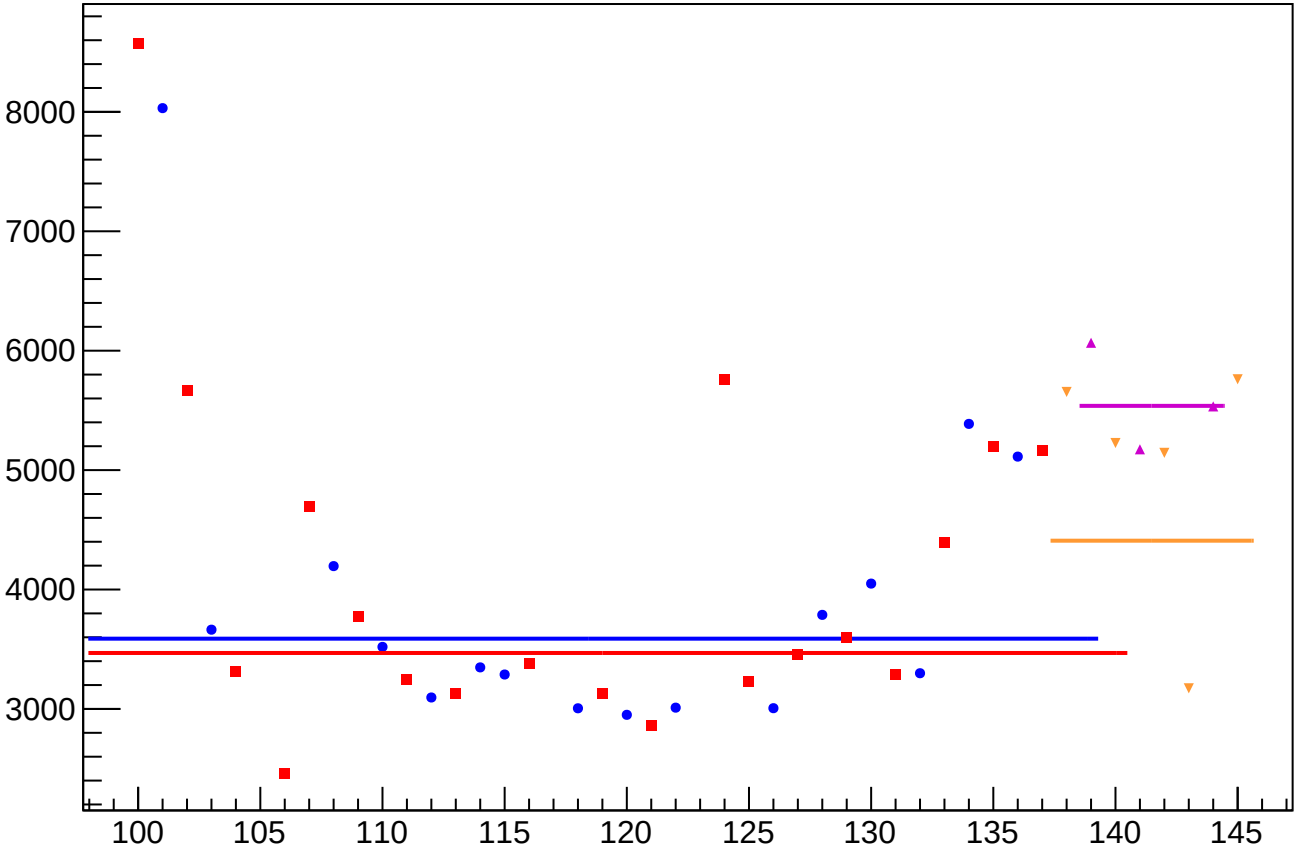
Right: 2302.760+/-958.722 $\chi^2$/NDF: 32.3/34

In: 2885.632+/-1280.289 $\chi^2$/NDF:13.8/18

Out: 1258.251+/-1162.792 $\chi^2$/NDF:23.3/23

All: 1993.855+/-860.767 $\chi^2$/NDF: 38.1/42

# asym_atr1l2_avg_rms vs Slug, Sign Corrected




Right In: 3588.430+/-0.976 $\chi^2$/NDF: 845218.6/15

Left Out: 4408.939+/-1.682 $\chi^2$/NDF:470633.6/4

Right Out: 3468.624+/-0.928 $\chi^2$/NDF: 666541.5/18

Left In: 5538.050+/-2.427 $\chi^2$/NDF:21476.6/2

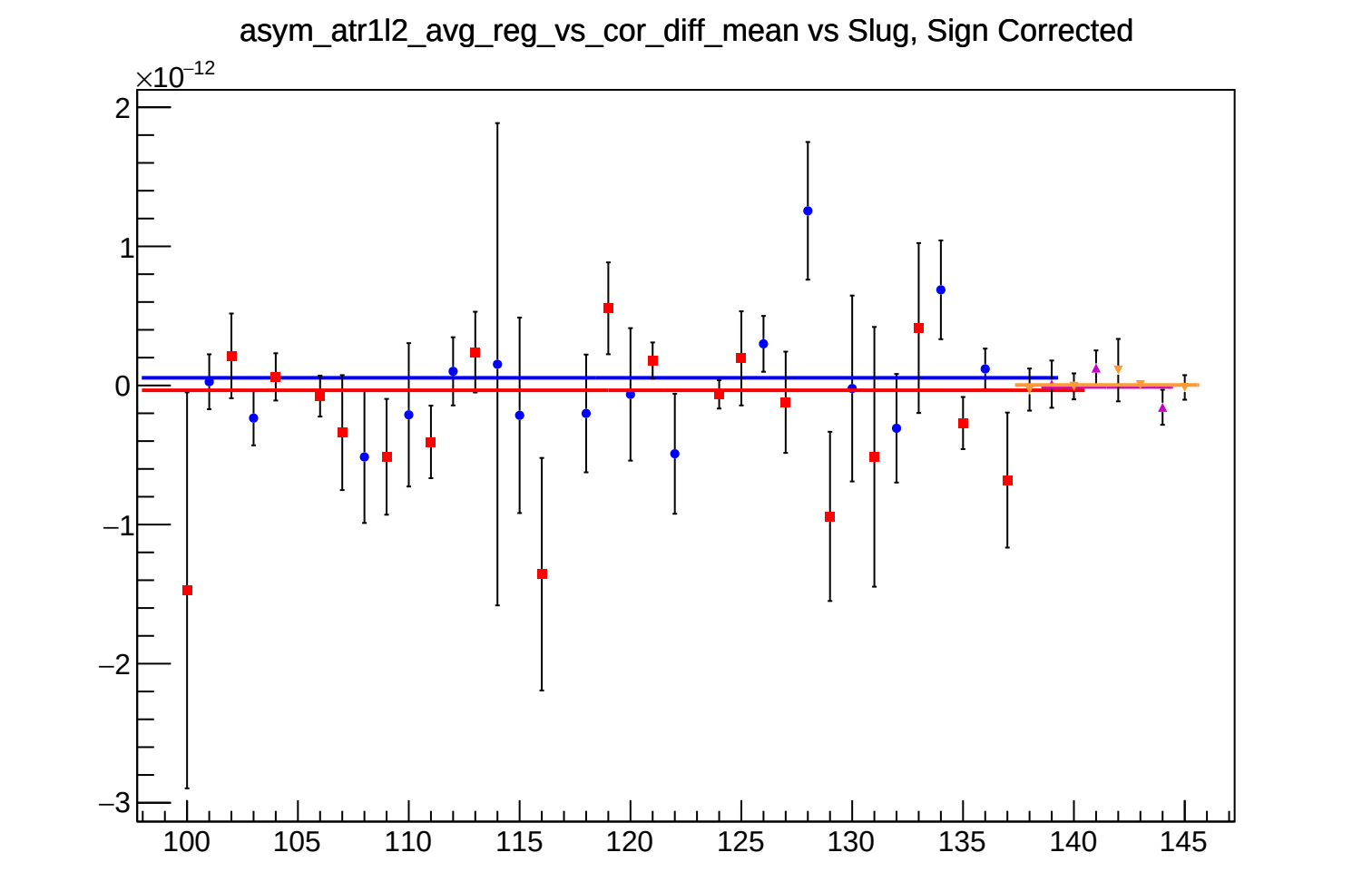
Left: 4775.251+/-1.382 $\chi^2$/NDF: 638365.9/7

Right: 3525.541+/-0.673 $\chi^2$/NDF: 1519674.0/34

In: 3859.762+/-0.905 $\chi^2$/NDF:1422320.8/18

Out: 3688.218+/-0.813 $\chi^2$/NDF:1376817.7/23

All: 3764.767+/-0.605 $\chi^2$/NDF: 2819021.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.3/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.5/2

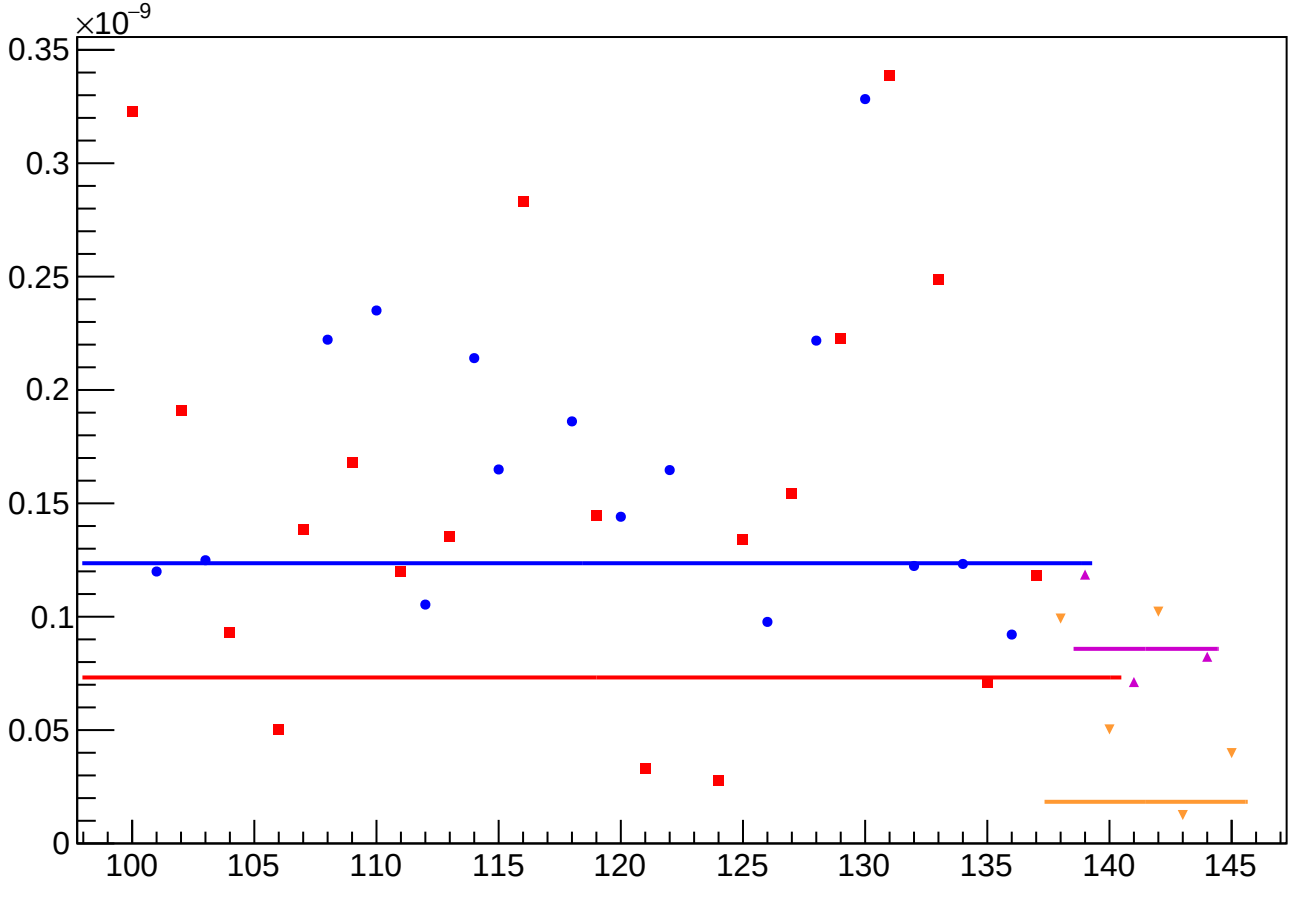
Left: 0.000+/-0.000 $\chi^2$/NDF: 2.9/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 43.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 662149.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1336736.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2188857.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:102669.6/2

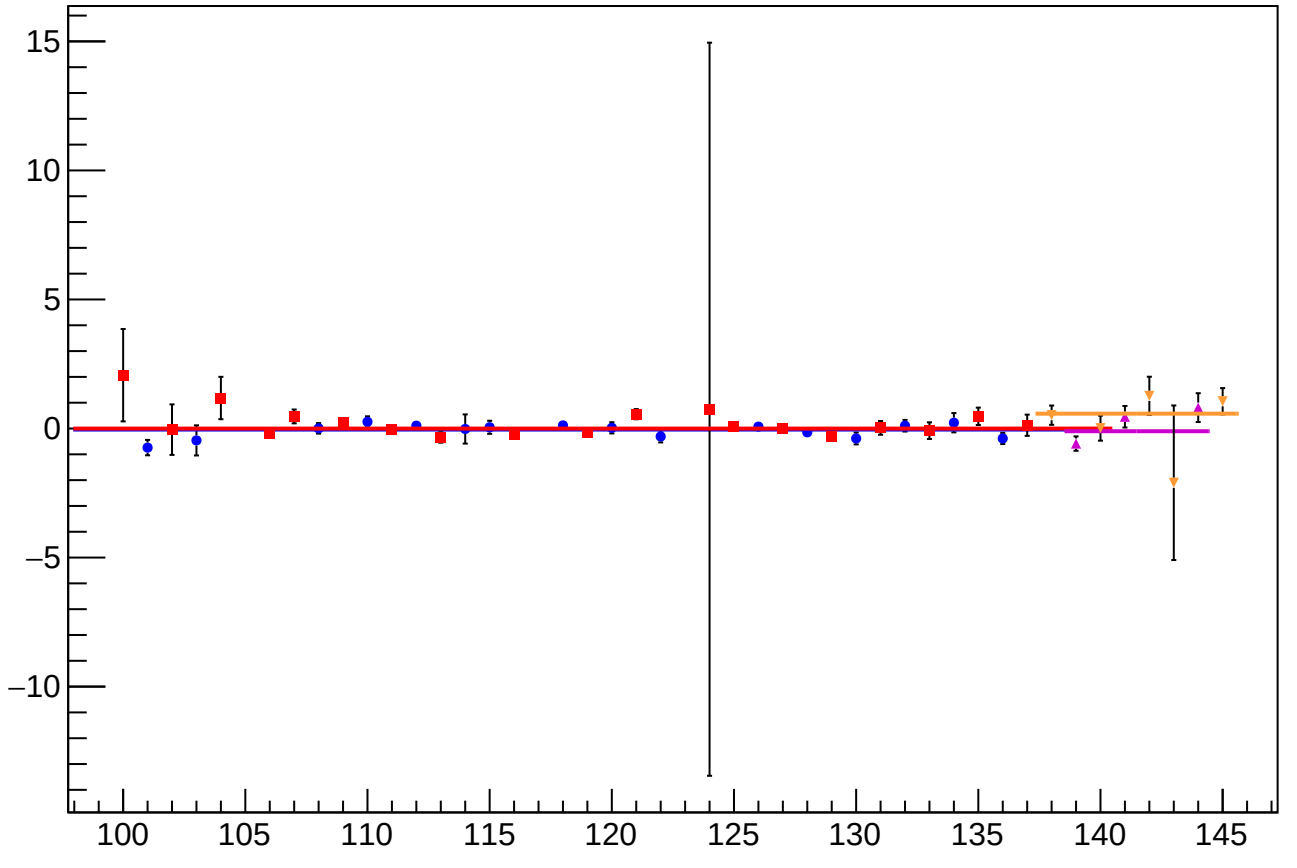
Left: 0.000+/-0.000 $\chi^2$/NDF: 2802472.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3471325.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1010855.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5364452.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 10349081.7/42




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: 0.575+/-0.241 $\chi^2$/NDF:3.9/4

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.105+/-0.214 $\chi^2$/NDF:7.5/2

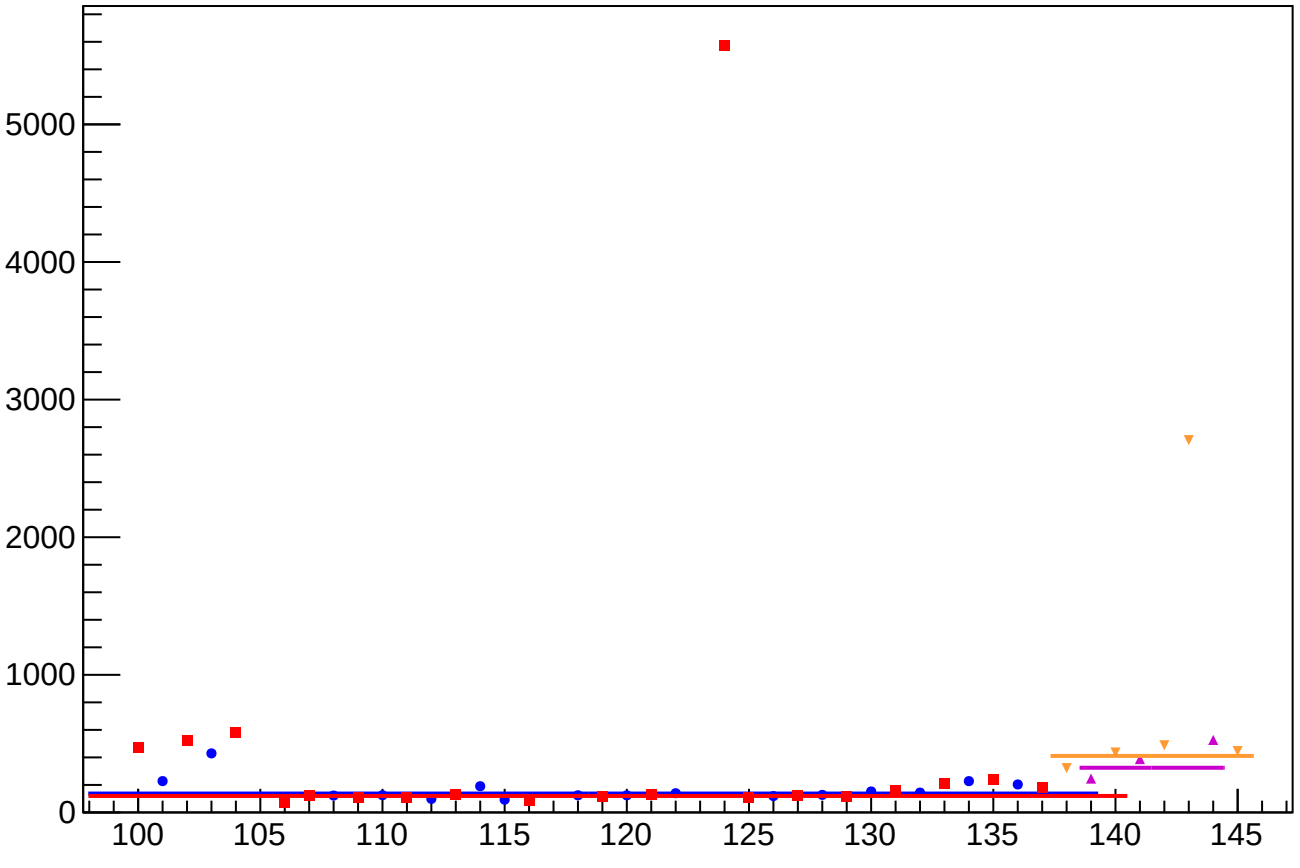
Left: 0.195+/-0.160 $\chi^2$/NDF: 15.8/7

Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.044+/-0.054 $\chi^2$/NDF:25.5/18

Out: 0.022+/-0.050 $\chi^2$/NDF:38.1/23

All: -0.008+/-0.037 $\chi^2$/NDF: 64.4/42




Right In: 137.399+/-0.039 $\chi^2$/NDF: 1268257.0/15

Left Out: 410.833+/-0.170 $\chi^2$/NDF:1323994.1/4

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139894.0/18

Left In: 324.831+/-0.151 $\chi^2$/NDF:467634.8/2

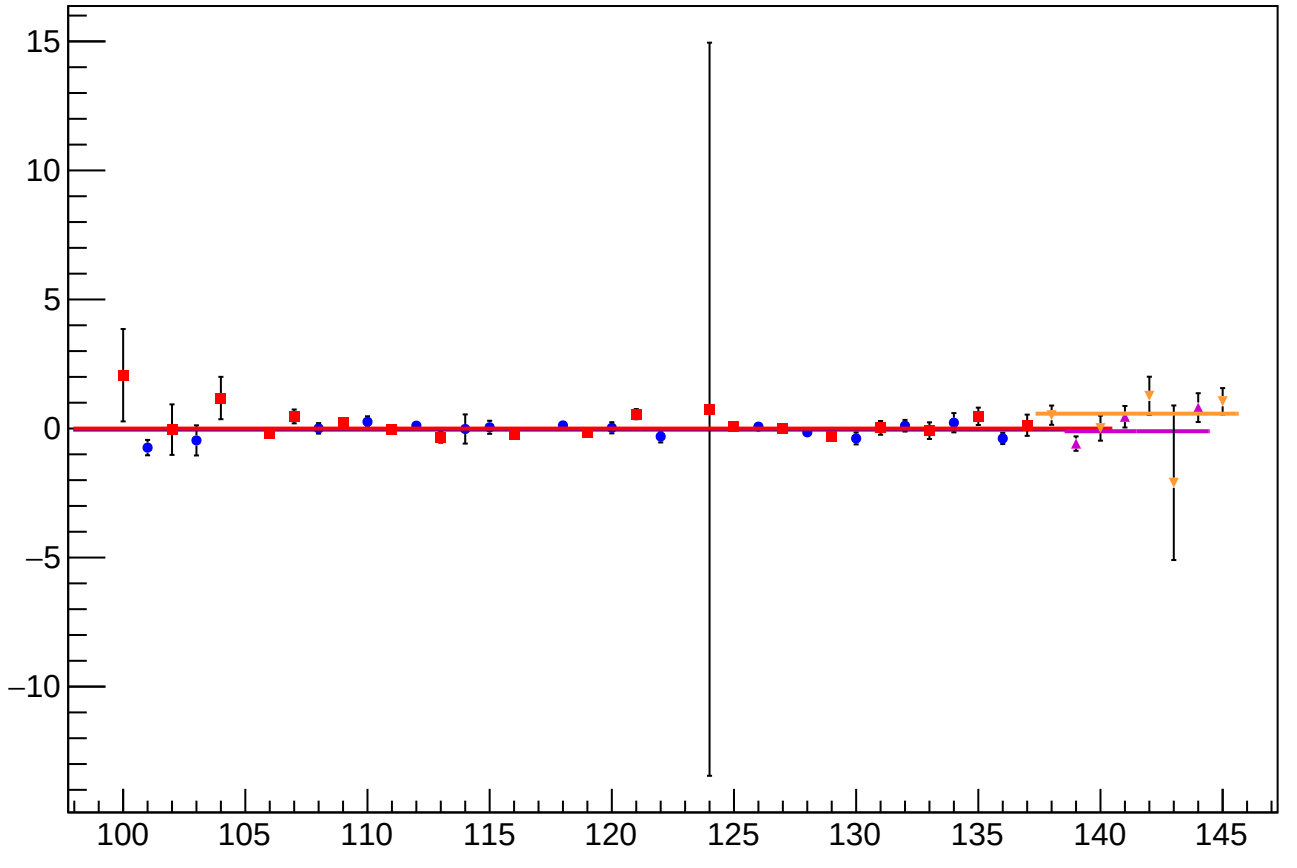
Left: 362.734+/-0.113 $\chi^2$/NDF: 1933931.6/7

Right: 127.907+/-0.027 $\chi^2$/NDF: 3514127.8/34

In: 149.335+/-0.038 $\chi^2$/NDF:3171832.9/18

Out: 132.425+/-0.035 $\chi^2$/NDF:6249263.9/23

All: 140.200+/-0.026 $\chi^2$/NDF: 9526998.2/42




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: 0.575+/-0.241 $\chi^2$/NDF:3.9/4

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.105+/-0.214 $\chi^2$/NDF:7.5/2

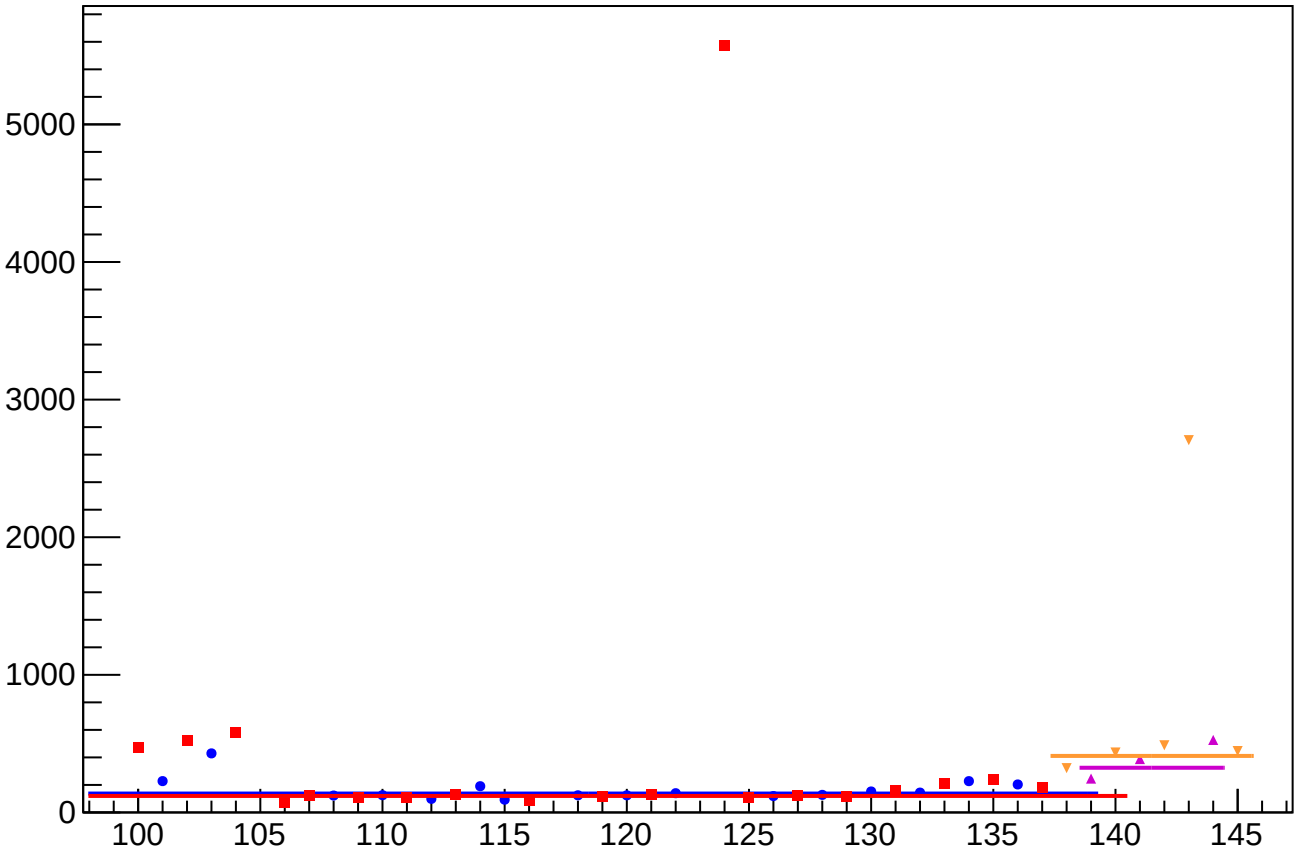
Left: 0.195+/-0.160 $\chi^2$/NDF: 15.8/7

Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.044+/-0.054 $\chi^2$/NDF:25.5/18

Out: 0.022+/-0.050 $\chi^2$/NDF:38.1/23

All: -0.008+/-0.037 $\chi^2$/NDF: 64.4/42




Right In: 137.399+/-0.039 $\chi^2$/NDF: 1268257.0/15

Left Out: 410.833+/-0.170 $\chi^2$/NDF:1323994.1/4

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139894.0/18

Left In: 324.831+/-0.151 $\chi^2$/NDF:467634.8/2

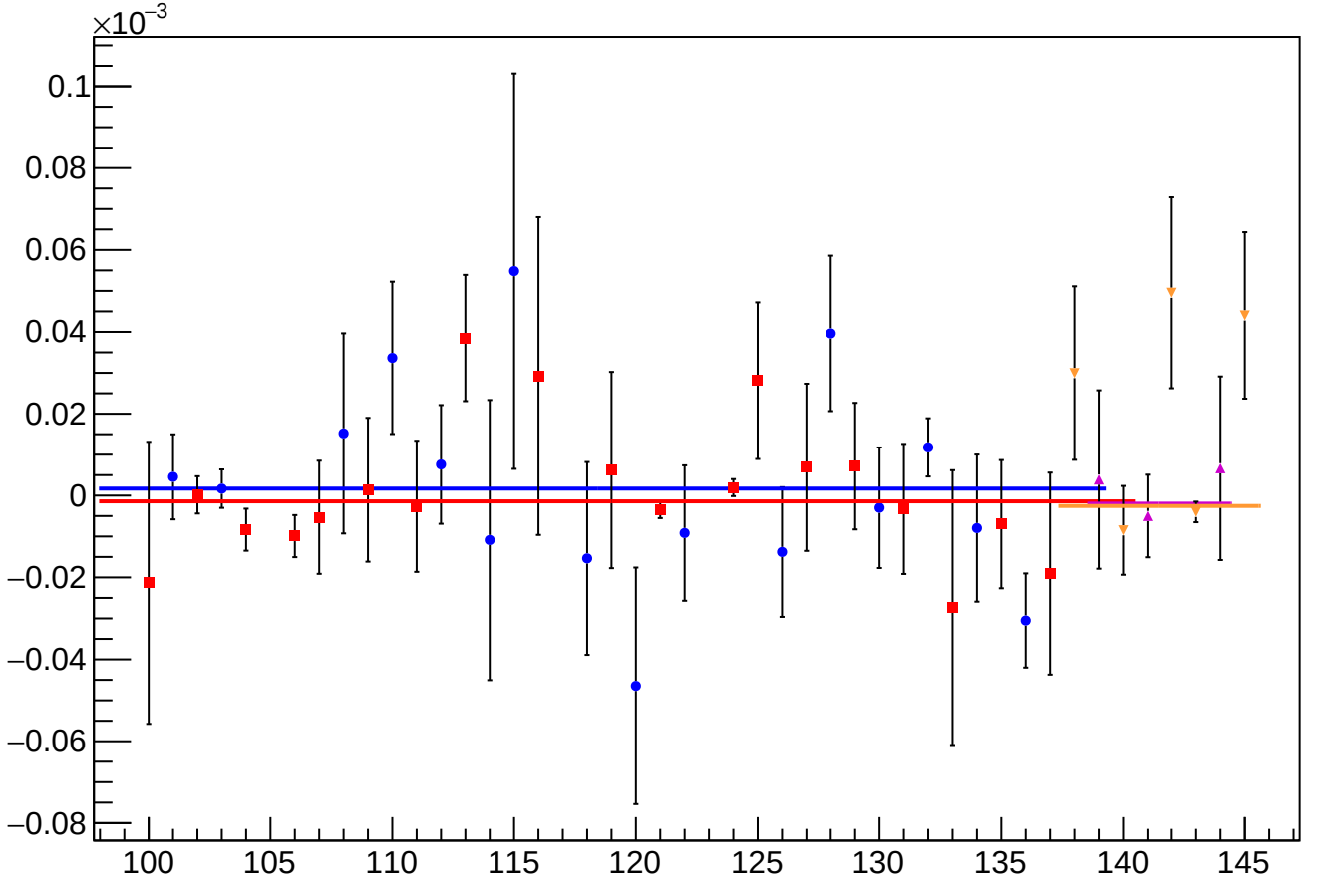
Left: 362.734+/-0.113 $\chi^2$/NDF: 1933931.6/7

Right: 127.907+/-0.027 $\chi^2$/NDF: 3514127.8/34

In: 149.335+/-0.038 $\chi^2$/NDF:3171832.9/18

Out: 132.425+/-0.035 $\chi^2$/NDF:6249263.9/23

All: 140.200+/-0.026 $\chi^2$/NDF: 9526998.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.3/2

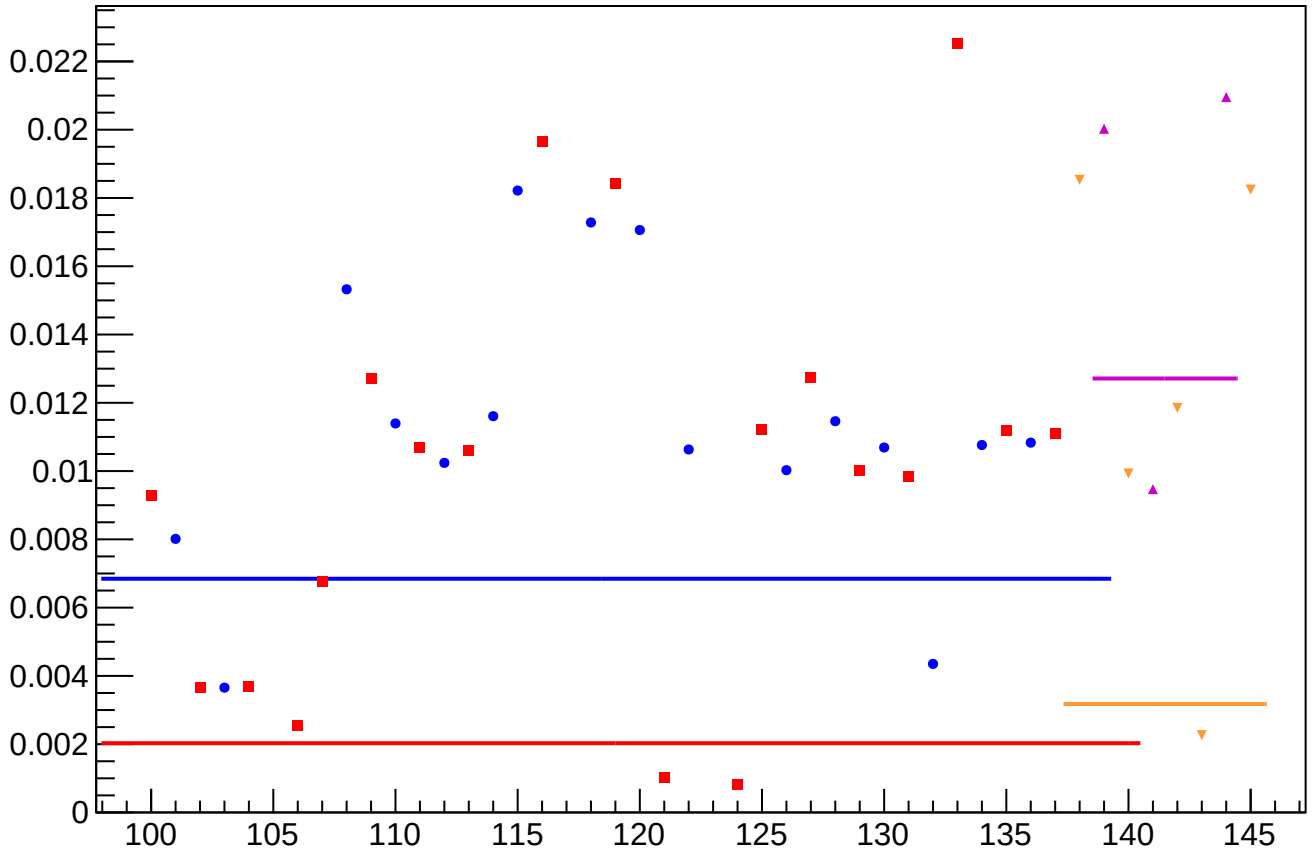
Left: -0.000+/-0.000 $\chi^2$/NDF: 13.5/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 45.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:33.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 58.9/42




Right In: 0.007+/-0.000 $\chi^2$/NDF: 3230112.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3462881.5/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 9007527.0/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:701415.0/2

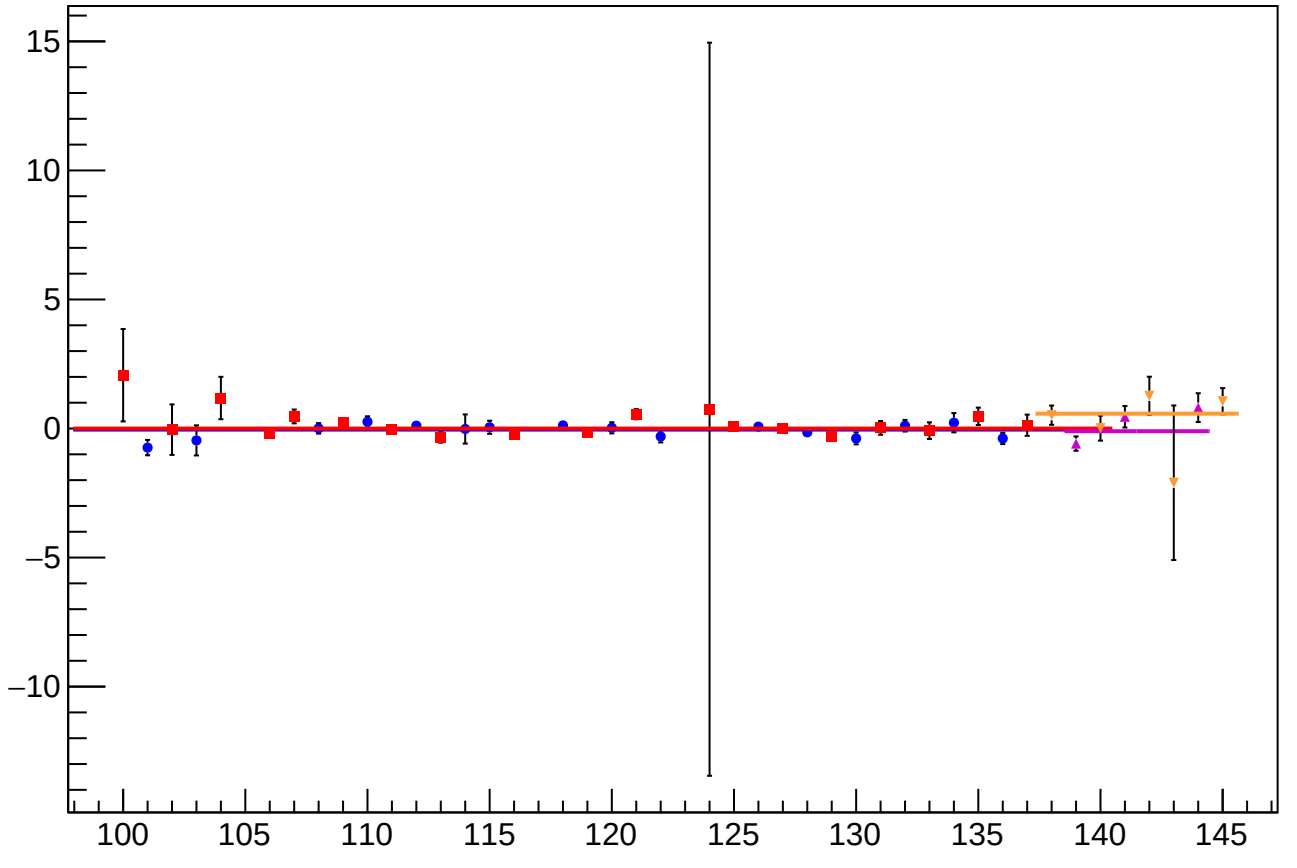
Left: 0.004+/-0.000 $\chi^2$/NDF: 6504155.4/7

Right: 0.003+/-0.000 $\chi^2$/NDF: 16707172.2/34

In: 0.007+/-0.000 $\chi^2$/NDF:4783871.5/18

Out: 0.002+/-0.000 $\chi^2$/NDF:12827770.5/23

All: 0.003+/-0.000 $\chi^2$/NDF: 23589300.9/42




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: 0.575+/-0.241 $\chi^2$/NDF:3.9/4

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.105+/-0.214 $\chi^2$/NDF:7.5/2

Left: 0.195+/-0.160 $\chi^2$/NDF: 15.8/7

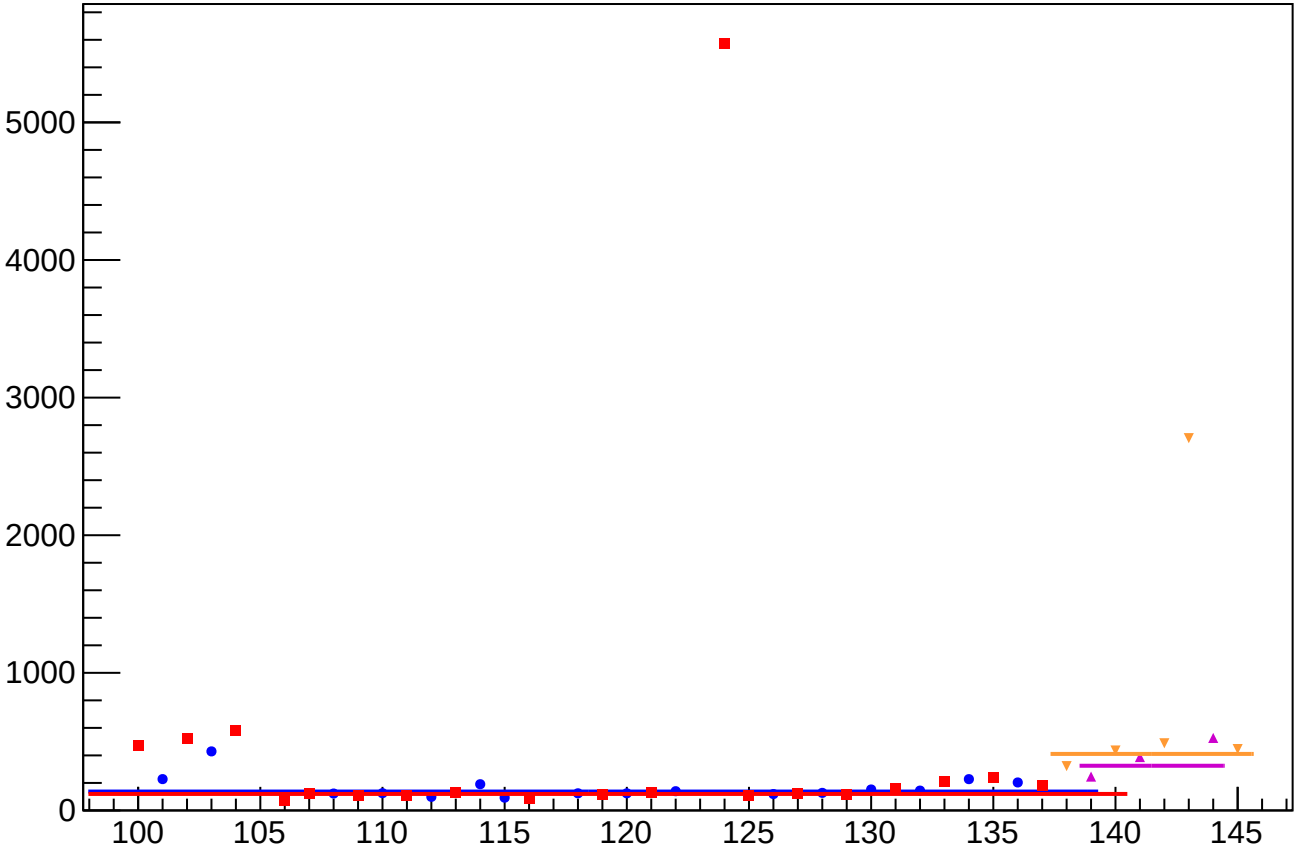
Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.044+/-0.054 $\chi^2$/NDF:25.5/18

Out: 0.022+/-0.050 $\chi^2$/NDF:38.1/23

All: -0.008+/-0.037 $\chi^2$/NDF: 64.4/42

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.400+/-0.039 $\chi^2$/NDF: 1268197.9/15

Left Out: 410.838+/-0.170 $\chi^2$/NDF:1324003.9/4

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139820.8/18

Left In: 324.839+/-0.151 $\chi^2$/NDF:467614.0/2

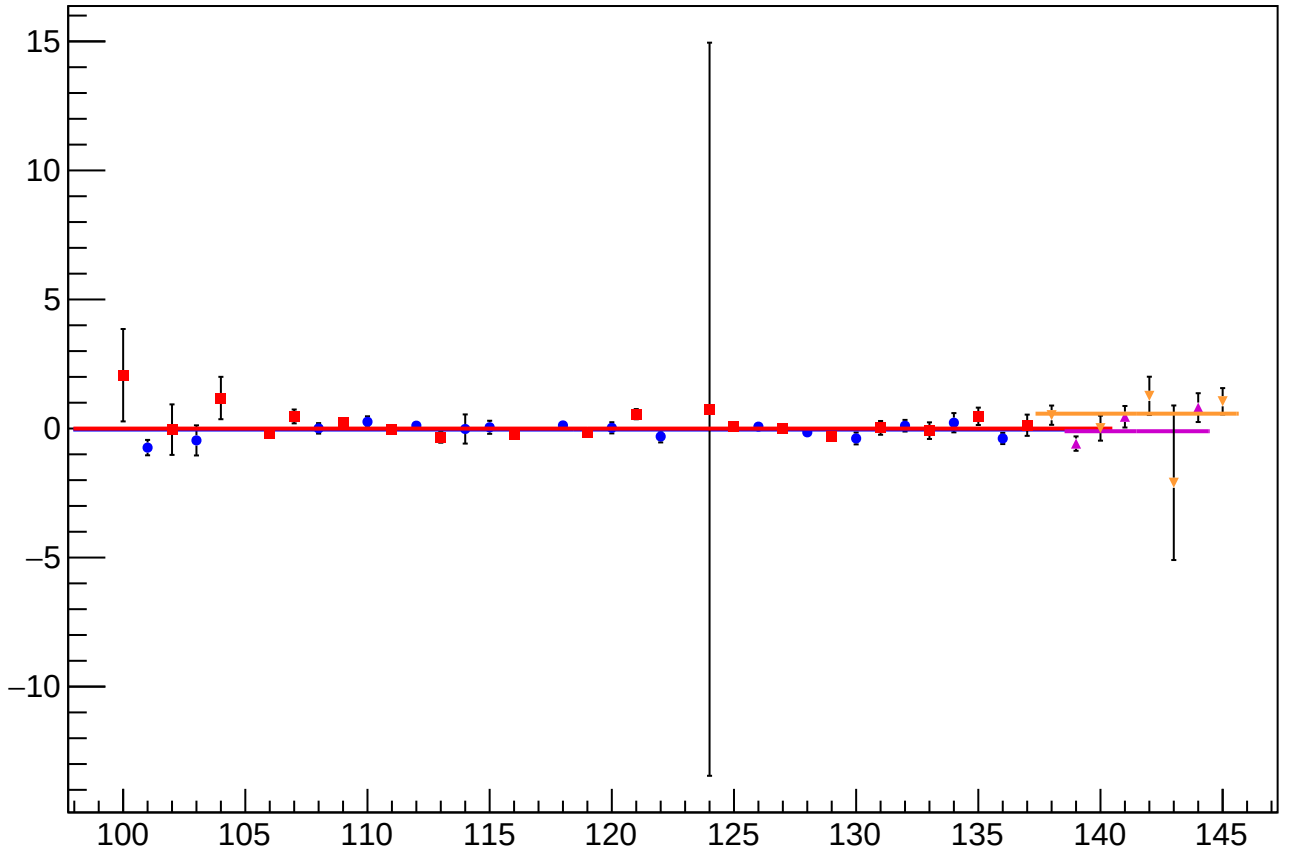
Left: 362.741+/-0.113 $\chi^2$/NDF: 1933905.1/7

Right: 127.907+/-0.027 $\chi^2$/NDF: 3514005.7/34

In: 149.336+/-0.038 $\chi^2$/NDF:3171802.9/18

Out: 132.425+/-0.035 $\chi^2$/NDF:6249232.7/23

All: 140.200+/-0.026 $\chi^2$/NDF: 9526949.6/42




Right In: -0.040+/-0.056 $\chi^2$/NDF: 17.9/15

Left Out: 0.575+/-0.241 $\chi^2$/NDF:3.9/4

Right Out: -0.003+/-0.051 $\chi^2$/NDF: 28.7/18

Left In: -0.105+/-0.214 $\chi^2$/NDF:7.5/2

Left: 0.195+/-0.160 $\chi^2$/NDF: 15.8/7

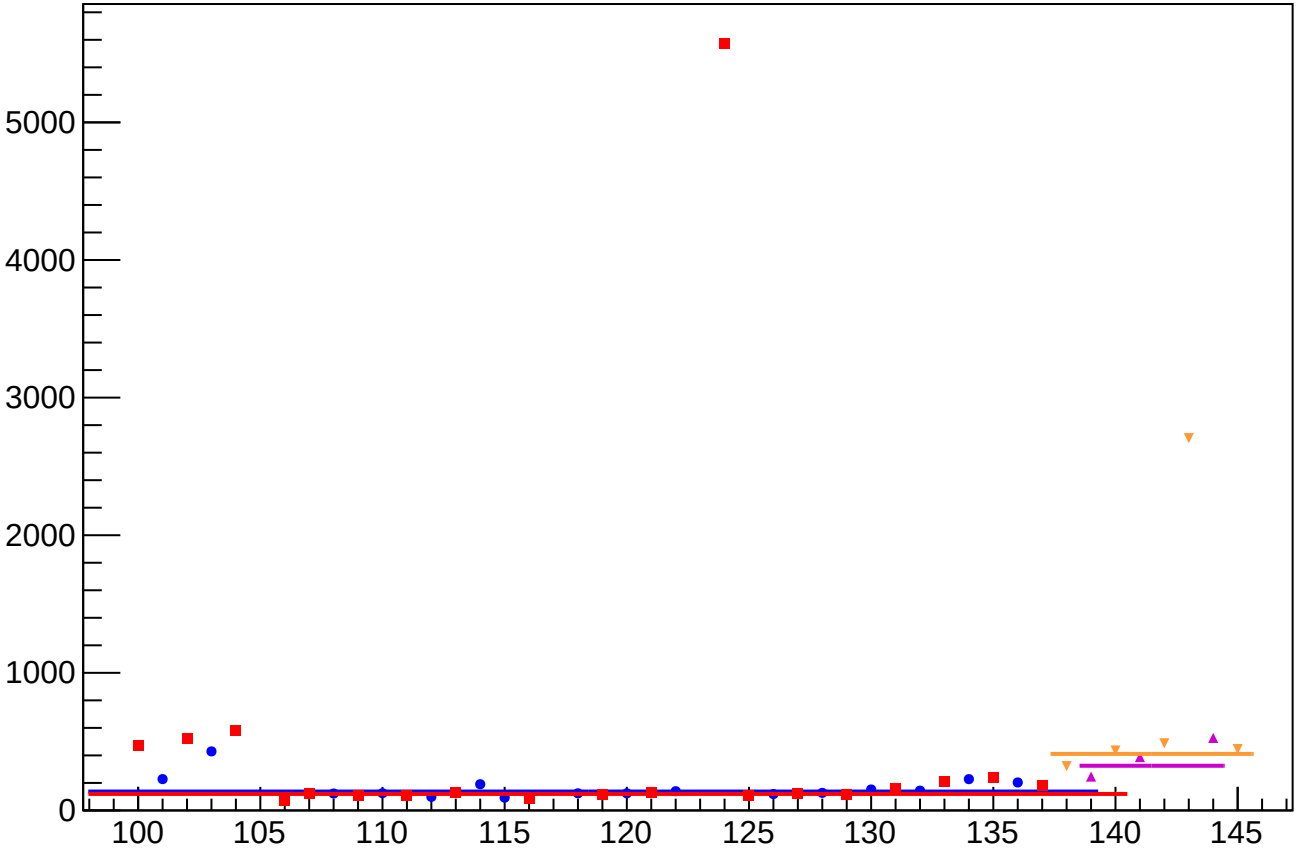
Right: -0.020+/-0.038 $\chi^2$/NDF: 46.9/34

In: -0.044+/-0.054 $\chi^2$/NDF:25.5/18

Out: 0.022+/-0.050 $\chi^2$/NDF:38.1/23

All: -0.008+/-0.037 $\chi^2$/NDF: 64.4/42

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: 410.838+/-0.170 $\chi^2$/NDF:1324003.9/4

Right Out: 120.006+/-0.036 $\chi^2$/NDF: 2139820.8/18

Left In: 324.839+/-0.151 $\chi^2$/NDF:467614.0/2

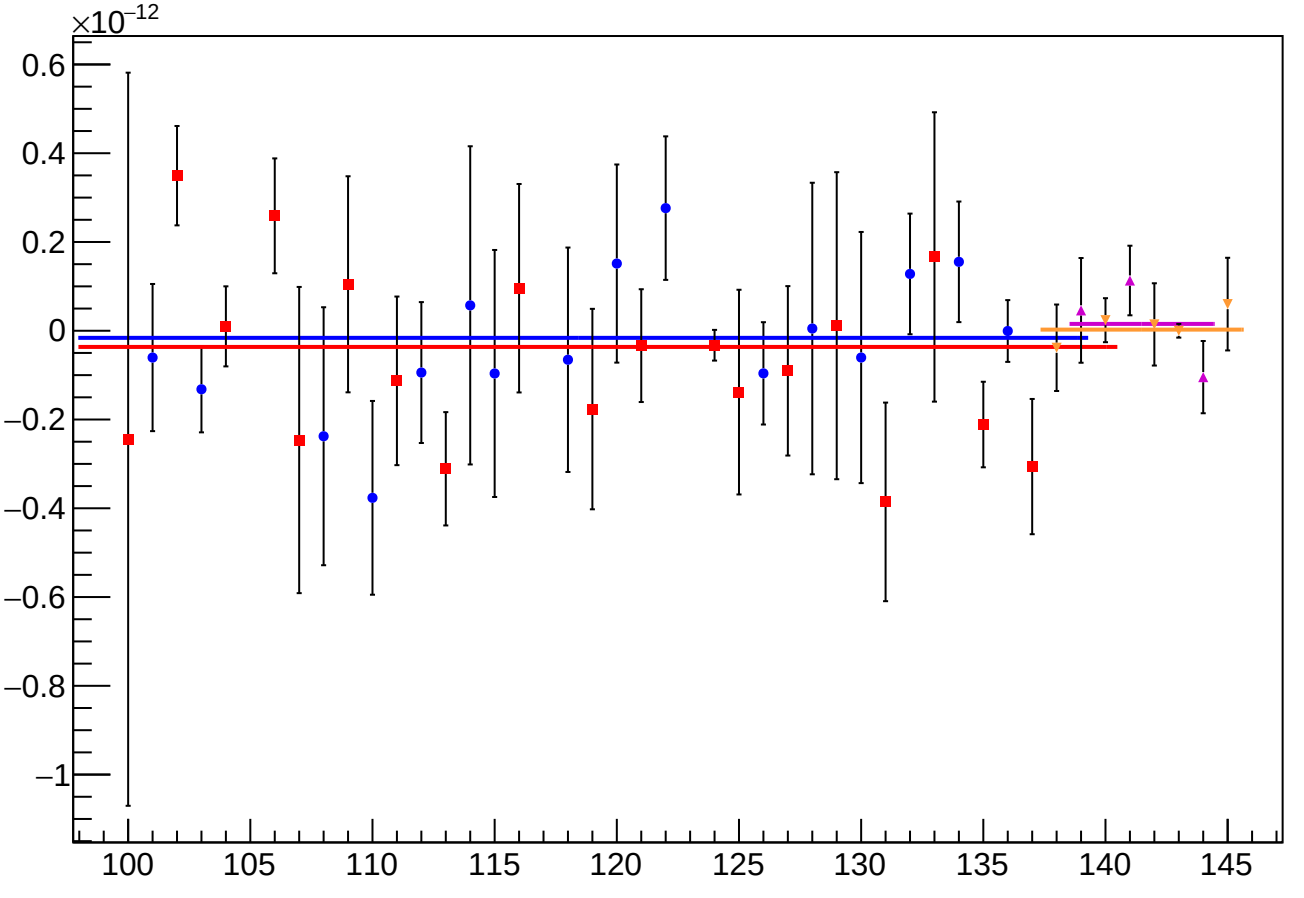
Left: 362.741+/-0.113 $\chi^2$/NDF: 1933905.1/7

Right: 127.907+/-0.027 $\chi^2$/NDF: 3514005.7/34

In: 149.336+/-0.038 $\chi^2$/NDF:3171802.9/18

Out: 132.425+/-0.035 $\chi^2$/NDF:6249232.7/23

All: 140.200+/-0.026 $\chi^2$/NDF: 9526949.6/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.7/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 33.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.8/2

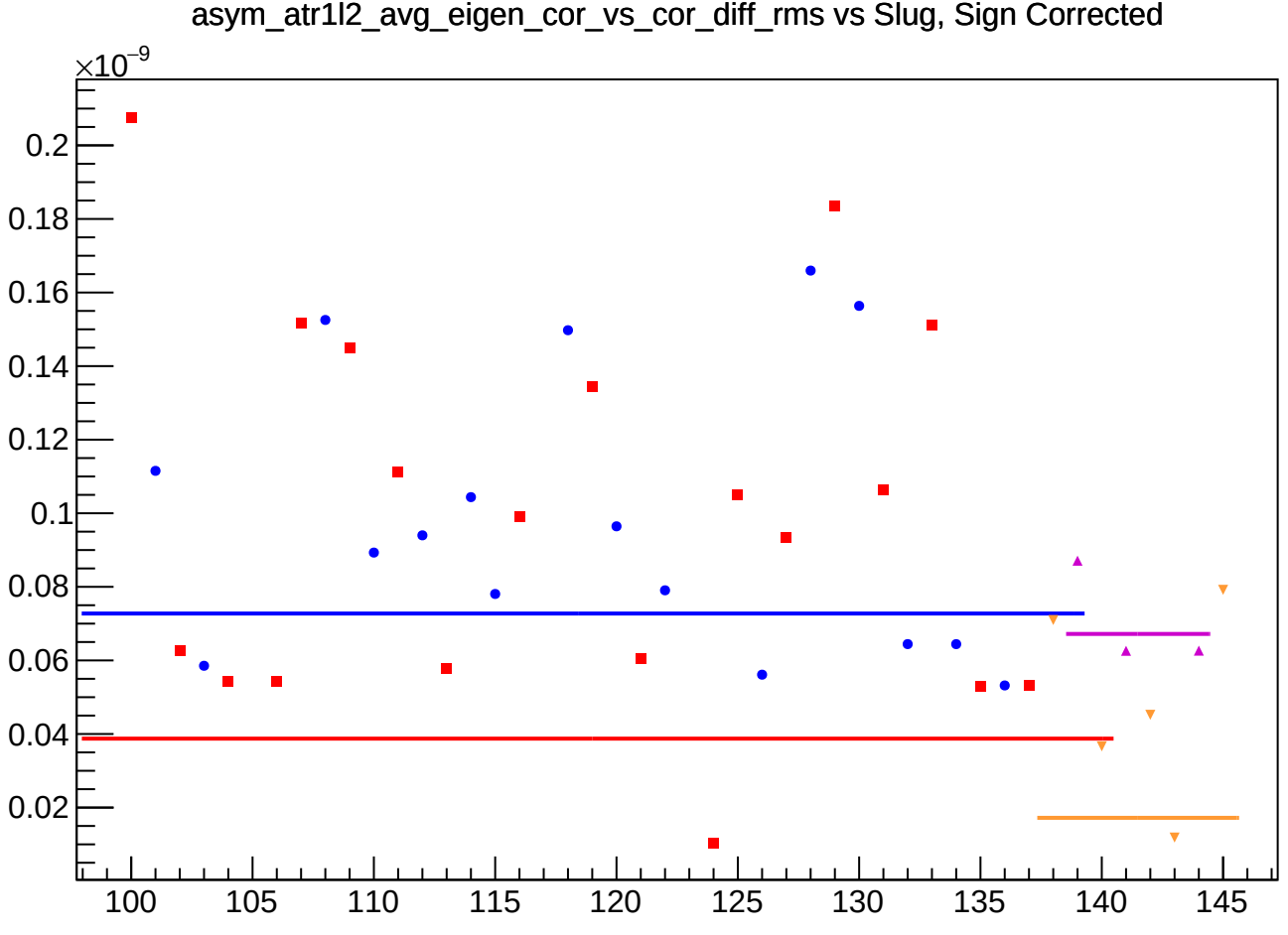
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.6/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 45.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:35.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 52.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1128031.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2045306.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4266020.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:69999.1/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 3901129.2/7

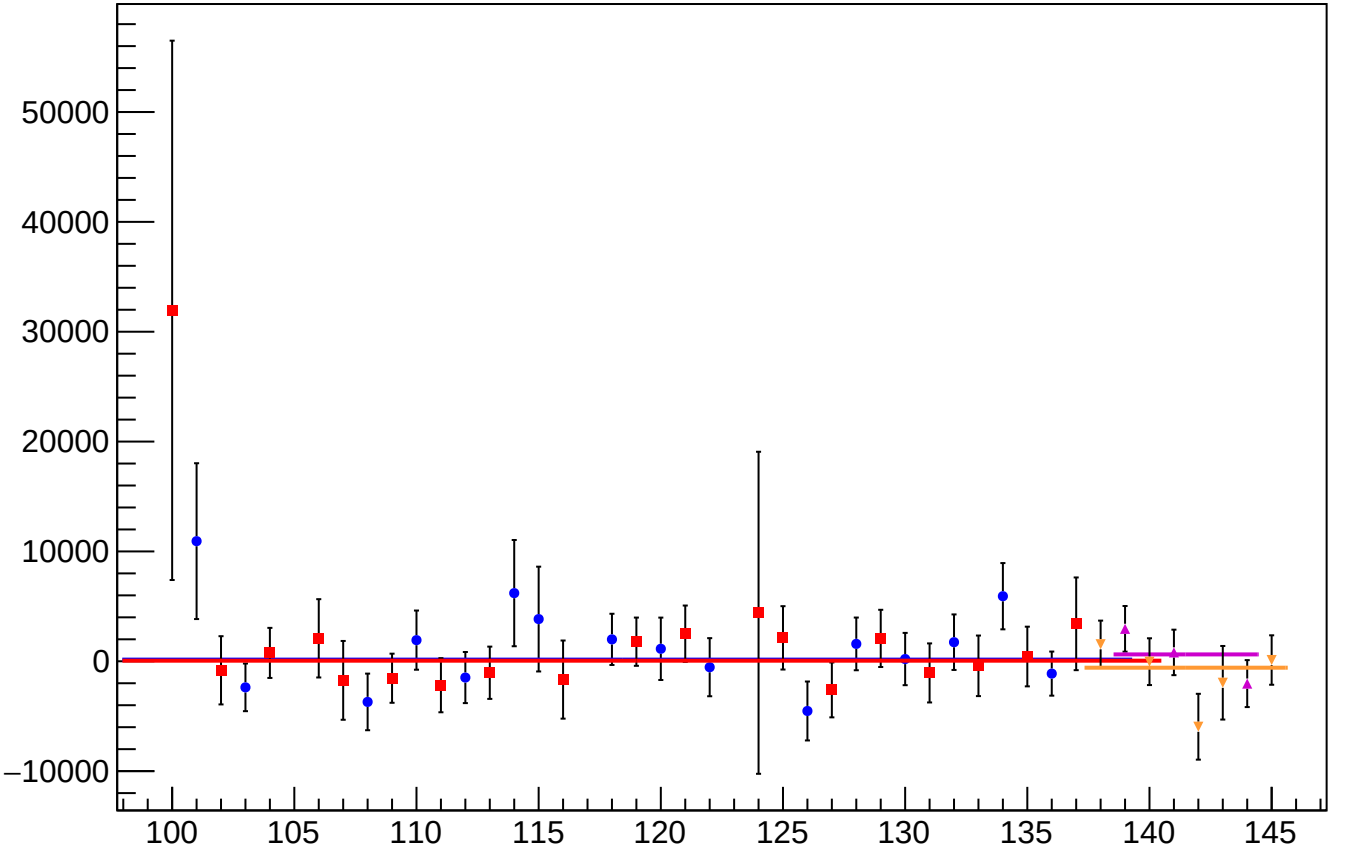
Right: 0.000+/-0.000 $\chi^2$/NDF: 6532086.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1213477.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:7402320.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 13051201.6/42

# reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 150.722+/-667.029 $\chi^2$/NDF: 17.7/15

Left Out: -584.634+/-1094.502 $\chi^2$/NDF:4.5/4

Right Out: 54.106+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: 625.226+/-1209.261 $\chi^2$/NDF:2.8/2

Left: -39.823+/-811.476 $\chi^2$/NDF: 7.9/7

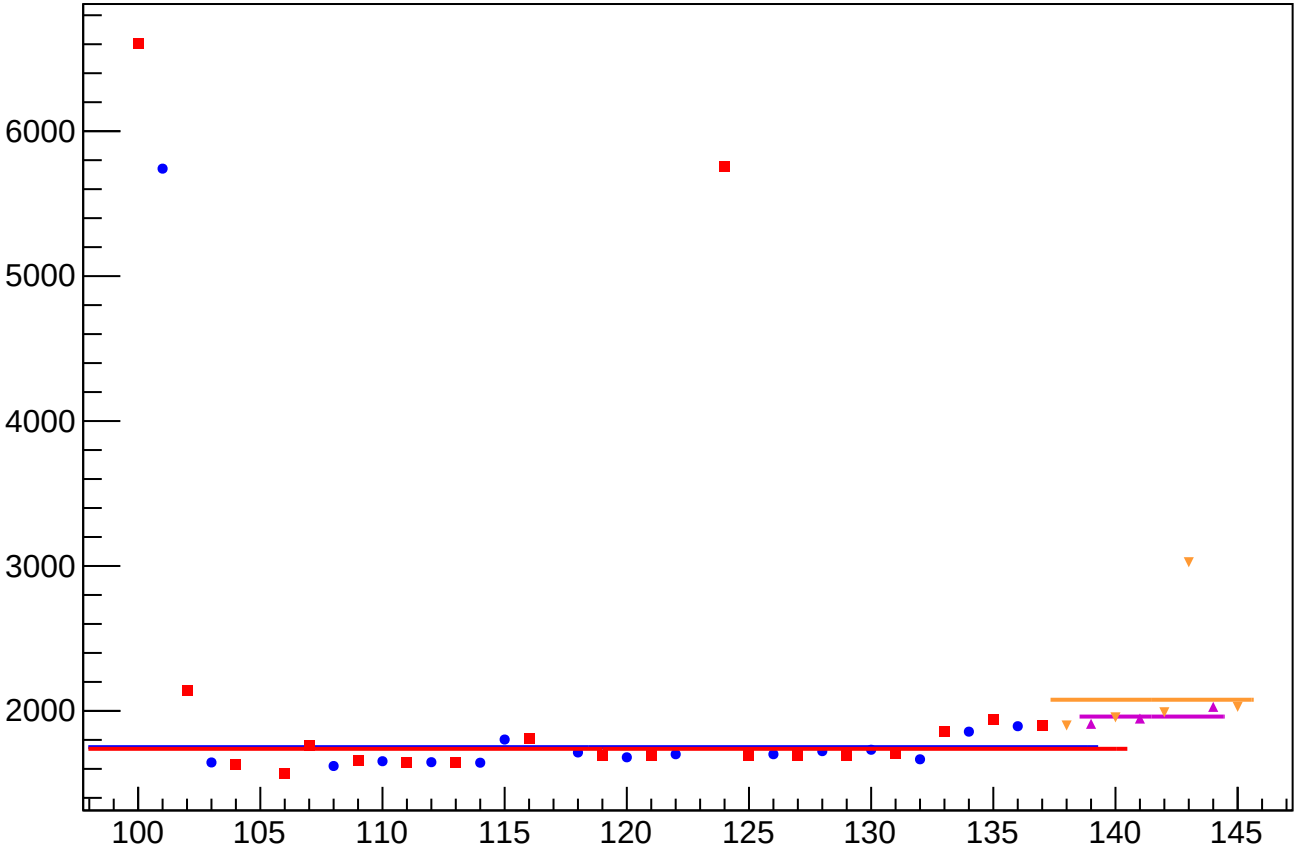
Right: 101.554+/-467.446 $\chi^2$/NDF: 26.6/34

In: 261.416+/-584.066 $\chi^2$/NDF:20.6/18

Out: -114.429+/-562.211 $\chi^2$/NDF:13.7/23

All: 66.330+/-405.049 $\chi^2$/NDF: 34.5/42

# reg_asym_atr1l2_dd_rms vs Slug, Sign Corrected




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.0/15

Left Out: 2077.085+/-0.774 $\chi^2$/NDF:183268.4/4

Right Out: 1738.493+/-0.460 $\chi^2$/NDF: 304493.3/18

Left In: 1960.953+/-0.855 $\chi^2$/NDF:3207.4/2

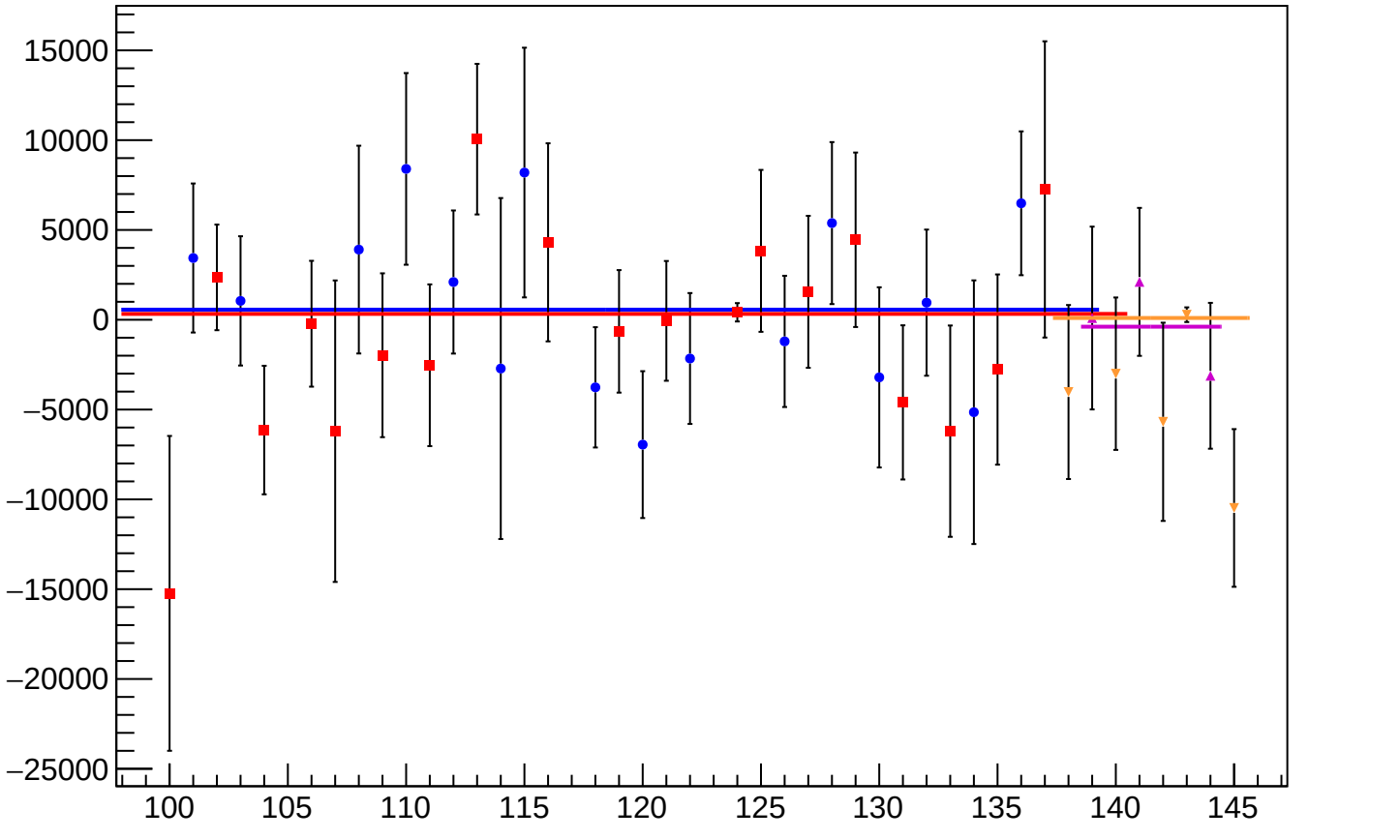
Left: 2024.790+/-0.574 $\chi^2$/NDF: 196615.2/7

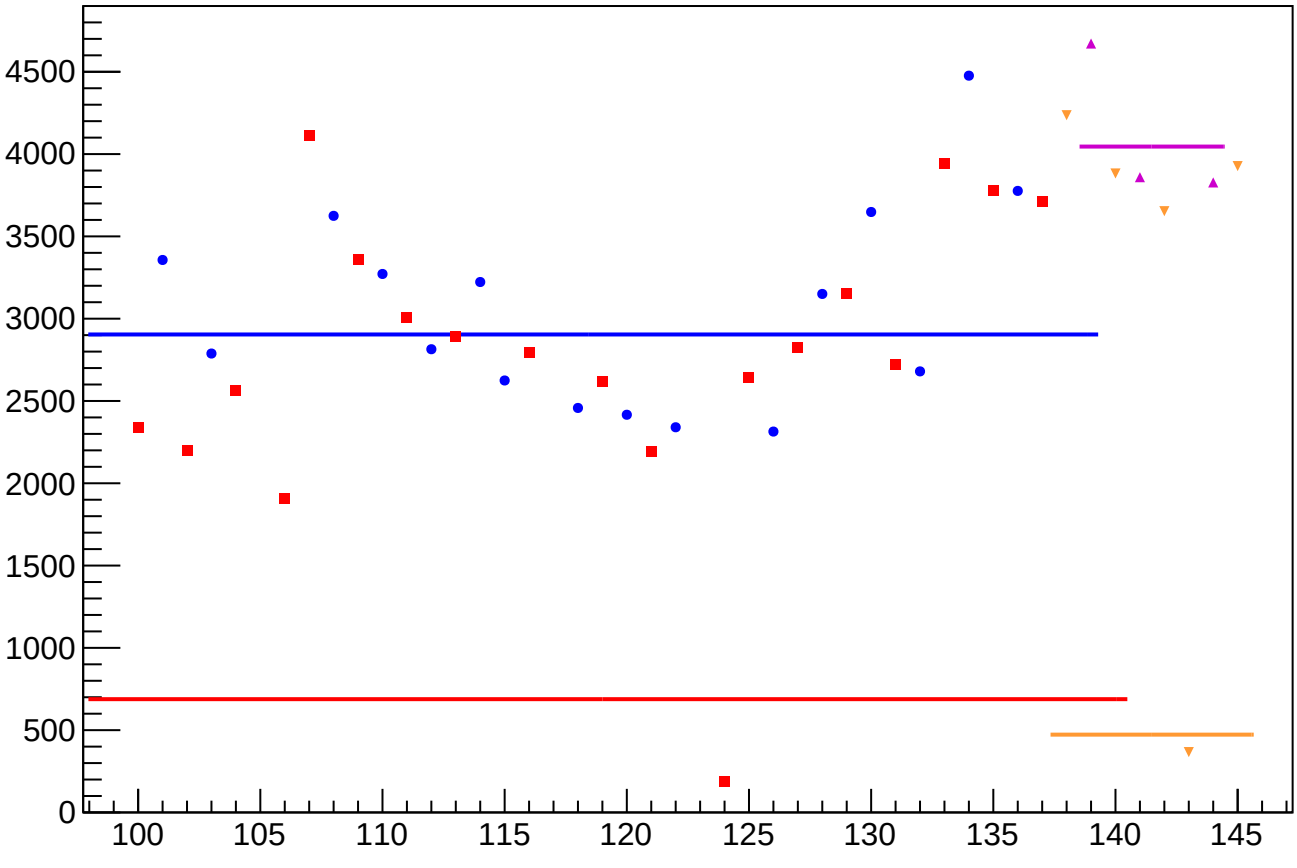
Right: 1744.036+/-0.329 $\chi^2$/NDF: 974367.2/34

In: 1799.108+/-0.413 $\chi^2$/NDF:719508.7/18

Out: 1826.868+/-0.395 $\chi^2$/NDF:629207.7/23

All: 1813.592+/-0.286 $\chi^2$/NDF: 1351073.8/42


asym_atr1l2_dd_reg_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 562.339+/-1101.163 χ²/NDF: 14.8/15
Left Out: 99.211+/-402.974 χ²/NDF:8.4/4
Right Out: 325.567+/-457.948 χ²/NDF: 19.2/18
Left In: -386.187+/-2513.981 χ²/NDF:0.8/2
Left: 87.051+/-397.895 χ²/NDF: 9.2/7
Right: 360.479+/-422.840 χ²/NDF: 34.1/34
In: 409.651+/-1008.647 χ²/NDF:15.8/18
Out: 197.994+/-302.525 χ²/NDF:27.7/23
All: 215.463+/-289.772 χ²/NDF: 43.5/42




Right In: 2904.059+/-0.779 $\chi^2$/NDF: 479774.3/15

Left Out: 472.795+/-0.285 $\chi^2$/NDF:4535930.3/4

Right Out: 688.319+/-0.324 $\chi^2$/NDF: 10148914.1/18

Left In: 4045.667+/-1.778 $\chi^2$/NDF:40113.9/2

Left: 562.296+/-0.281 $\chi^2$/NDF: 8514475.6/7

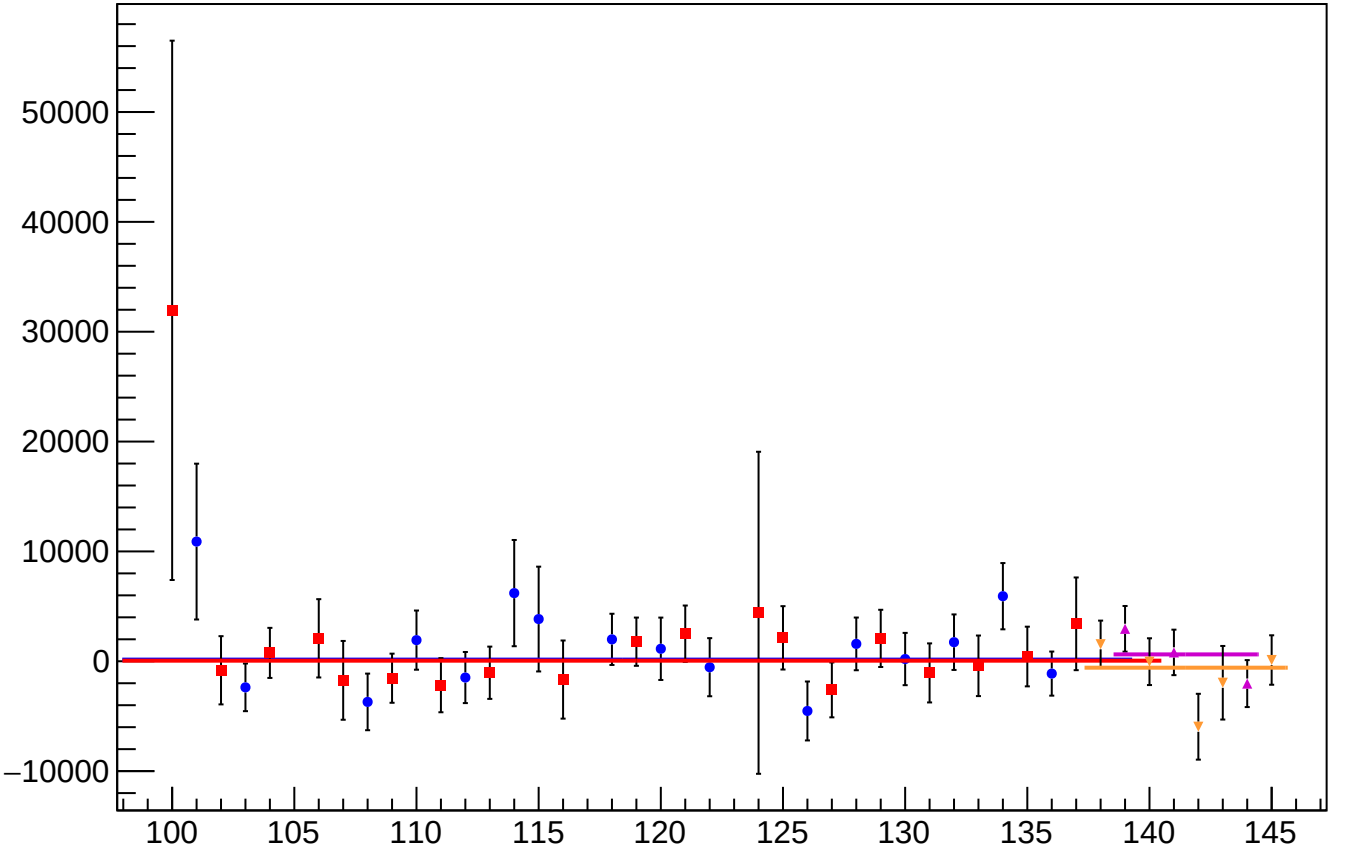
Right: 1015.033+/-0.299 $\chi^2$/NDF: 17532420.1/34

In: 3087.828+/-0.713 $\chi^2$/NDF:865919.6/18

Out: 566.851+/-0.214 $\chi^2$/NDF:14934508.9/23

All: 774.917+/-0.205 $\chi^2$/NDF: 27262925.4/42

# cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 150.254+/-667.029 $\chi^2$/NDF: 17.6/15

Left Out: -584.646+/-1094.502 $\chi^2$/NDF:4.5/4

Right Out: 54.158+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: 625.349+/-1209.261 $\chi^2$/NDF:2.8/2

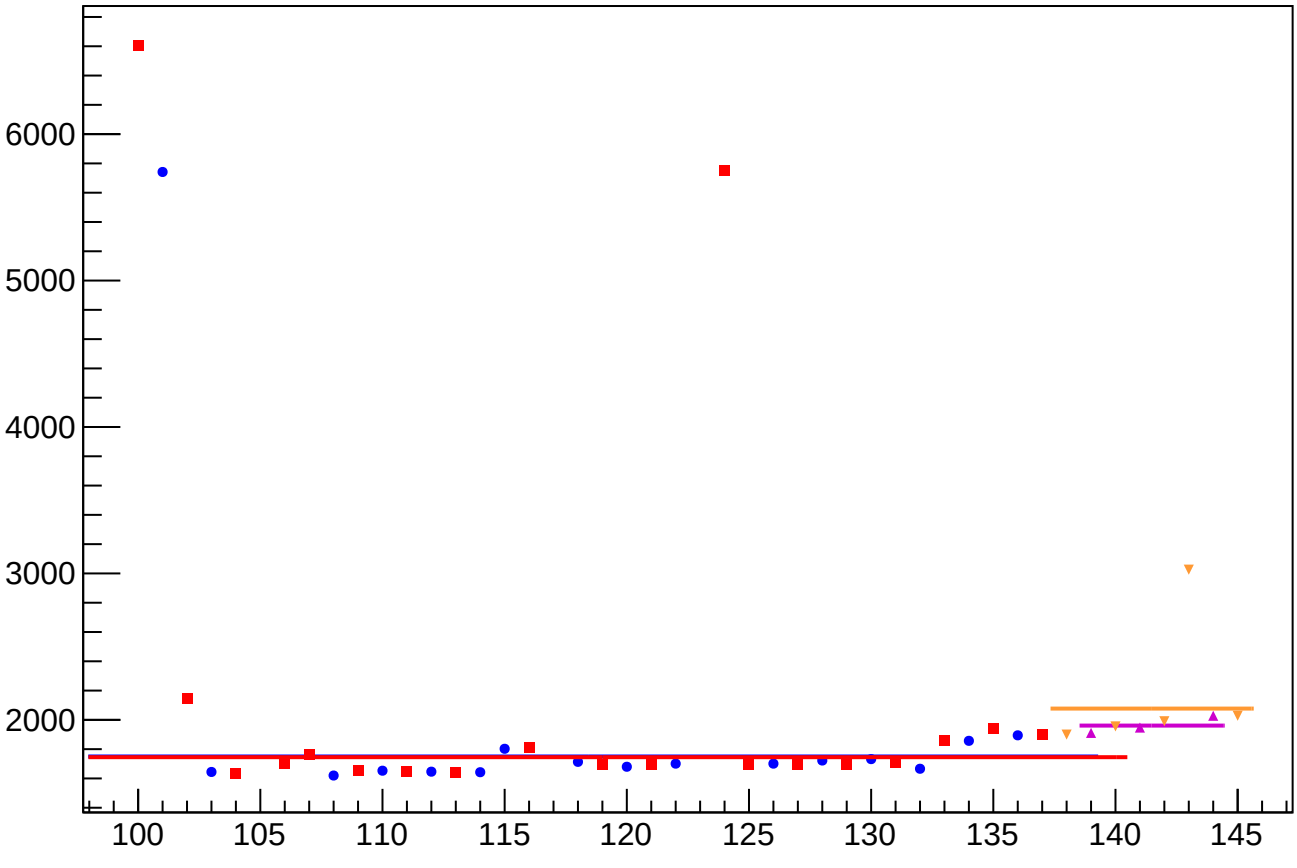
Left: -39.774+/-811.476 $\chi^2$/NDF: 7.9/7

Right: 101.351+/-467.446 $\chi^2$/NDF: 26.6/34

In: 261.086+/-584.066 $\chi^2$/NDF:20.6/18

Out: -114.394+/-562.211 $\chi^2$/NDF:13.7/23

All: 66.189+/-405.049 $\chi^2$/NDF: 34.5/42




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.1/15

Left Out: 2077.085+/-0.774 $\chi^2$/NDF:183268.4/4

Right Out: 1745.188+/-0.462 $\chi^2$/NDF: 297979.0/18

Left In: 1960.953+/-0.855 $\chi^2$/NDF:3207.4/2

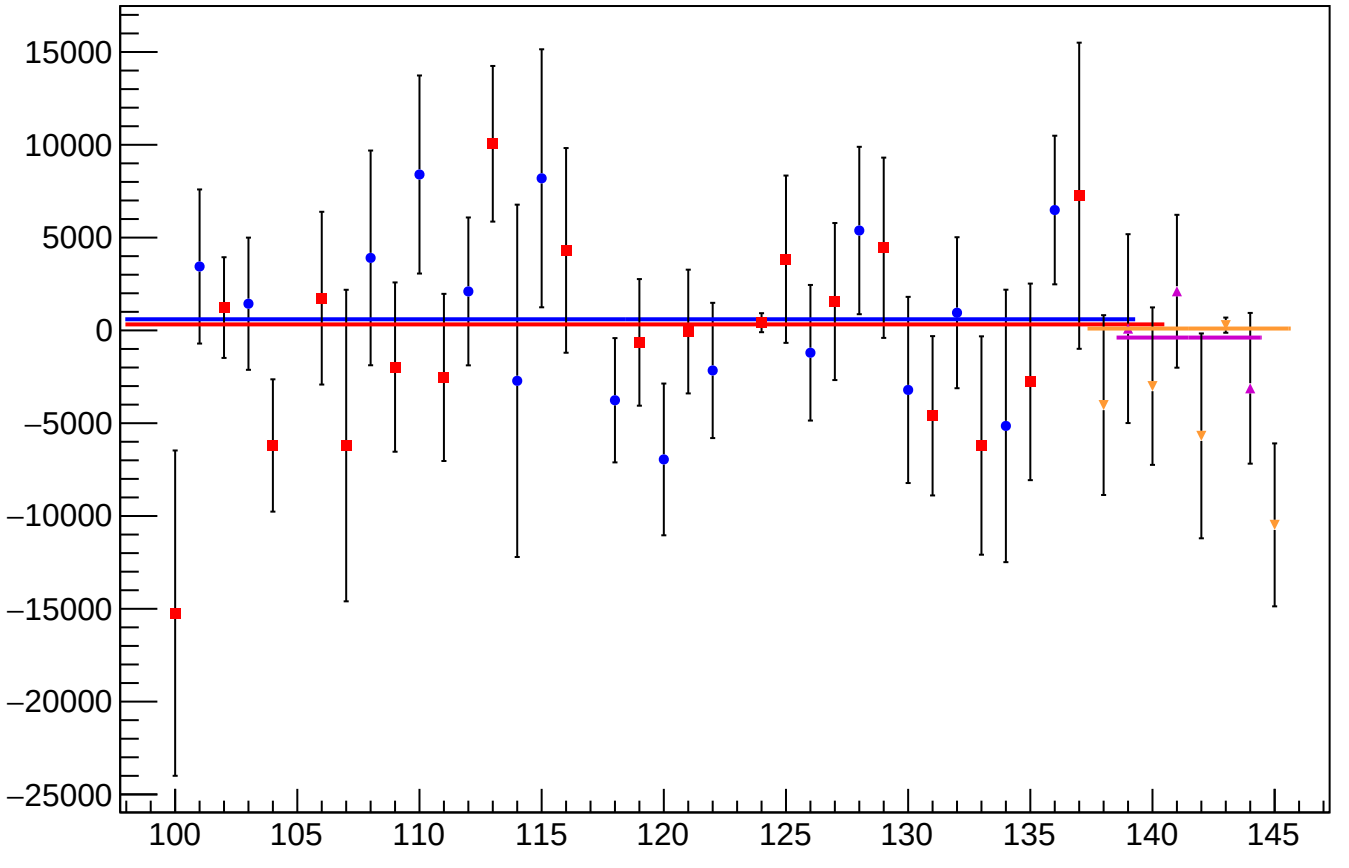
Left: 2024.790+/-0.574 $\chi^2$/NDF: 196615.2/7

Right: 1747.476+/-0.330 $\chi^2$/NDF: 967605.3/34

In: 1799.108+/-0.413 $\chi^2$/NDF:719509.1/18

Out: 1832.279+/-0.396 $\chi^2$/NDF:616898.1/23

All: 1816.371+/-0.286 $\chi^2$/NDF: 1339764.5/42




Right In: 600.202+/-1100.125 $\chi^2$/NDF: 14.9/15

Left Out: 100.200+/-403.009 $\chi^2$/NDF:8.4/4

Right Out: 323.164+/-458.862 $\chi^2$/NDF: 19.0/18

Left In: -386.242+/-2513.974 $\chi^2$/NDF:0.8/2

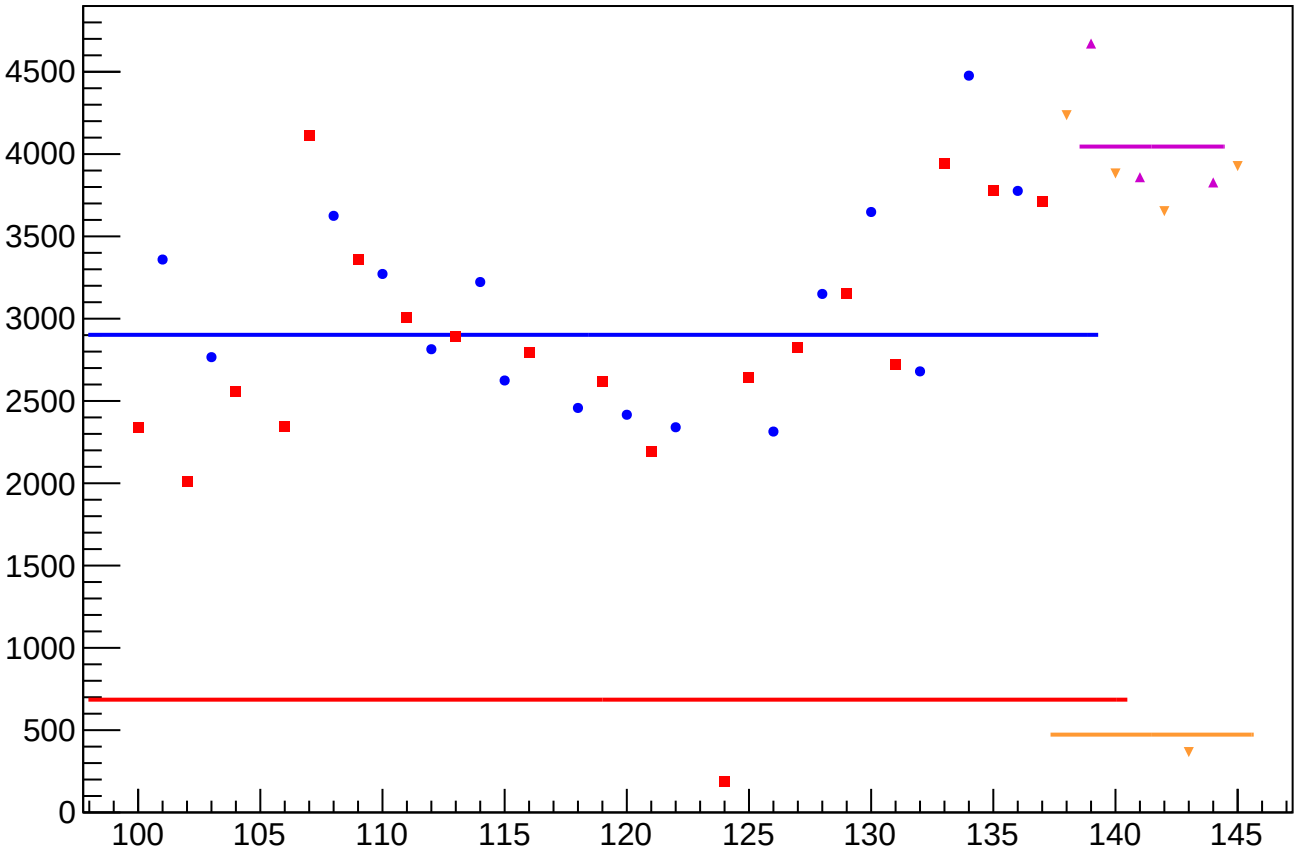
Left: 88.012+/-397.928 $\chi^2$/NDF: 9.2/7

Right: 364.218+/-423.500 $\chi^2$/NDF: 33.9/34

In: 441.661+/-1007.849 $\chi^2$/NDF:15.8/18

Out: 197.293+/-302.803 $\chi^2$/NDF:27.5/23

All: 217.525+/-289.997 $\chi^2$/NDF: 43.4/42




Right In: 2901.861+/-0.778 $\chi^2$/NDF: 480934.2/15

Left Out: 472.853+/-0.285 $\chi^2$/NDF:4535807.7/4

Right Out: 685.257+/-0.324 $\chi^2$/NDF: 10105797.4/18

Left In: 4045.658+/-1.778 $\chi^2$/NDF:40112.8/2

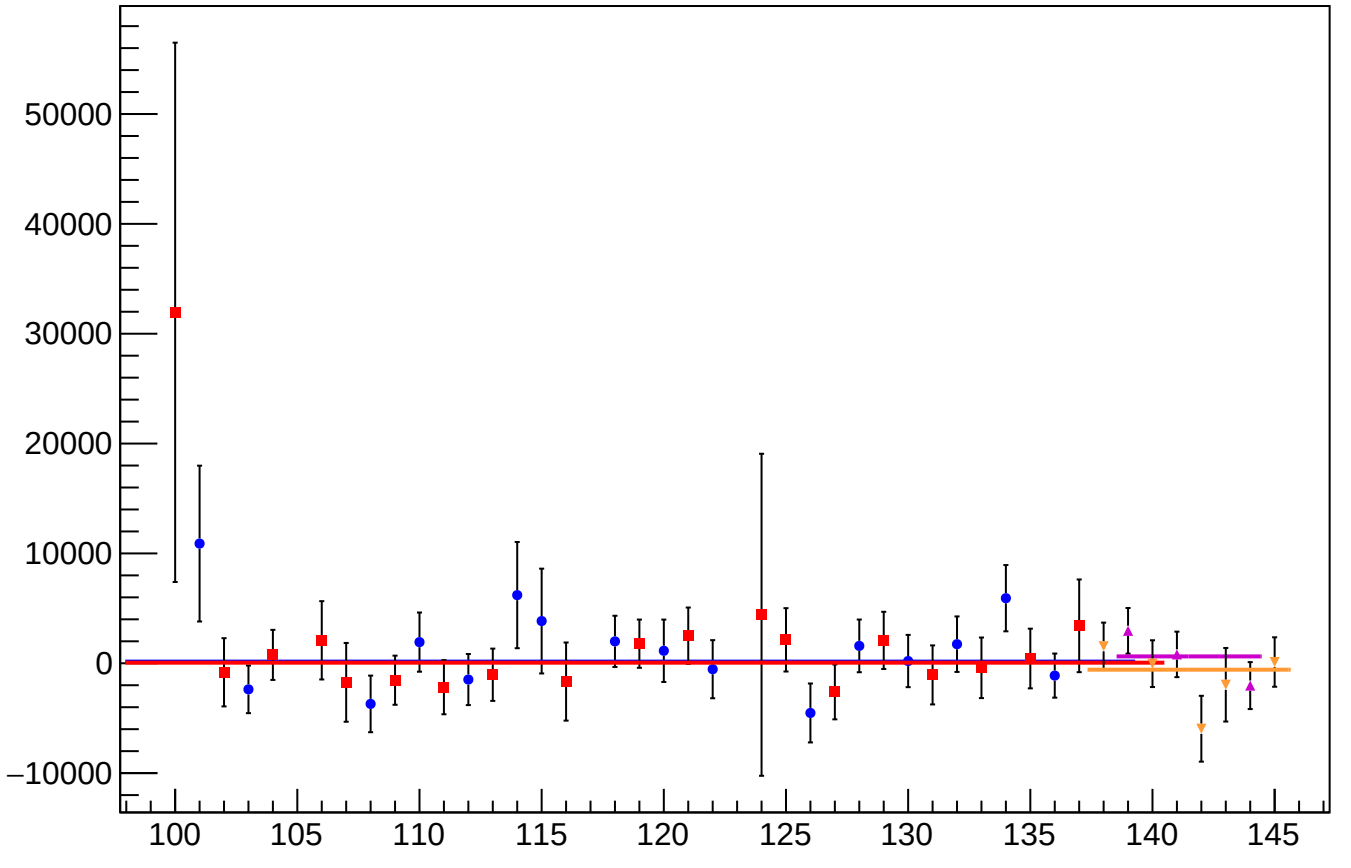
Left: 562.368+/-0.281 $\chi^2$/NDF: 8514205.2/7

Right: 1013.738+/-0.299 $\chi^2$/NDF: 17502877.4/34

In: 3085.692+/-0.713 $\chi^2$/NDF:868513.3/18

Out: 565.348+/-0.214 $\chi^2$/NDF:14883529.2/23

All: 774.015+/-0.205 $\chi^2$/NDF: 27223686.5/42




Right In: 150.254+/-667.029 $\chi^2$/NDF: 17.6/15

Left Out: -584.646+/-1094.502 $\chi^2$/NDF:4.5/4

Right Out: 54.158+/-655.266 $\chi^2$/NDF: 9.0/18

Left In: 625.349+/-1209.261 $\chi^2$/NDF:2.8/2

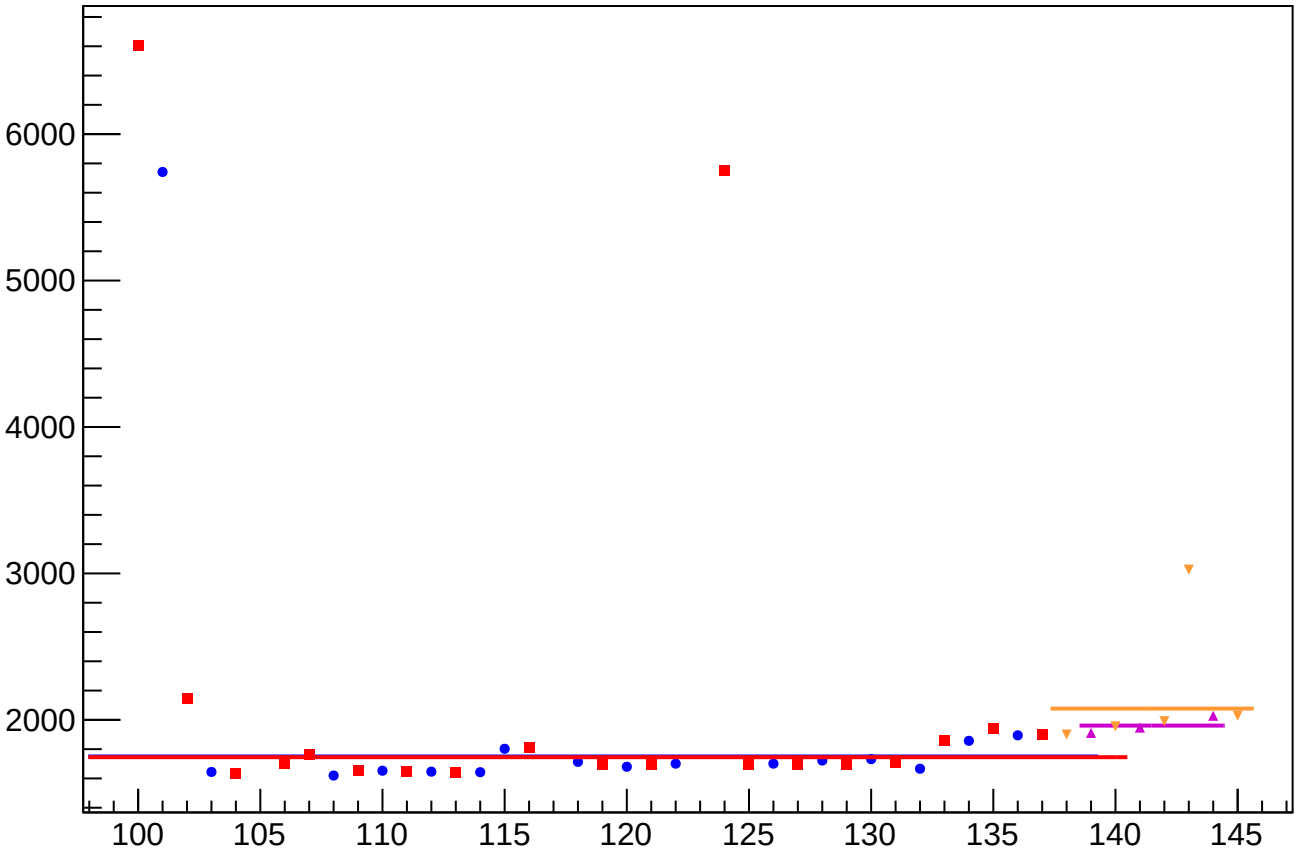
Left: -39.774+/-811.476 $\chi^2$/NDF: 7.9/7

Right: 101.351+/-467.446 $\chi^2$/NDF: 26.6/34

In: 261.086+/-584.066 $\chi^2$/NDF:20.6/18

Out: -114.394+/-562.211 $\chi^2$/NDF:13.7/23

All: 66.189+/-405.049 $\chi^2$/NDF: 34.5/42




Right In: 1749.864+/-0.472 $\chi^2$/NDF: 669576.1/15

Left Out: 2077.085+/-0.774 $\chi^2$/NDF:183268.4/4

Right Out: 1745.188+/-0.462 $\chi^2$/NDF: 297979.0/18

Left In: 1960.953+/-0.855 $\chi^2$/NDF:3207.4/2

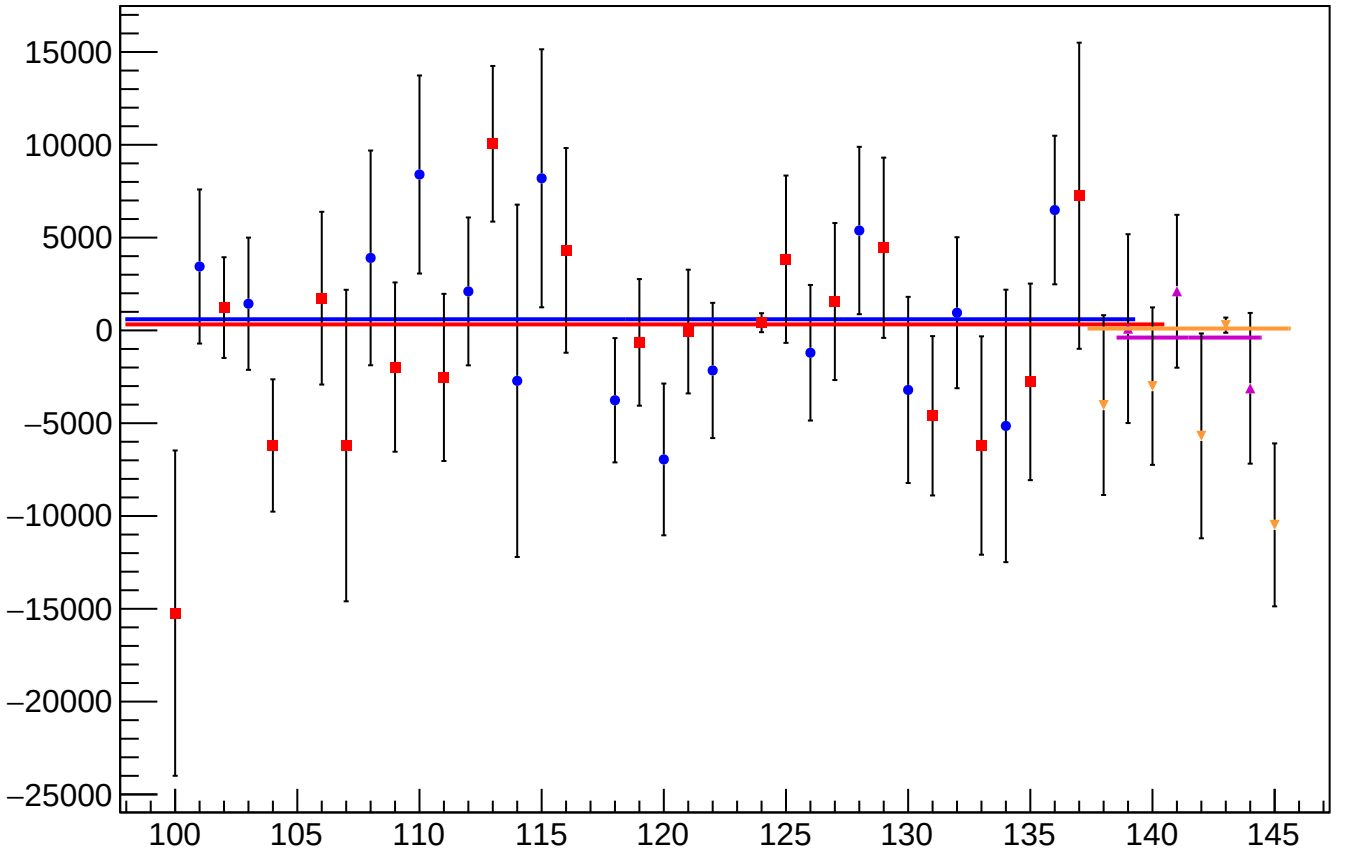
Left: 2024.790+/-0.574 $\chi^2$/NDF: 196615.2/7

Right: 1747.476+/-0.330 $\chi^2$/NDF: 967605.3/34

In: 1799.108+/-0.413 $\chi^2$/NDF:719509.1/18

Out: 1832.279+/-0.396 $\chi^2$/NDF:616898.1/23

All: 1816.371+/-0.286 $\chi^2$/NDF: 1339764.5/42




Right In: 600.202+/-1100.125 $\chi^2$/NDF: 14.9/15

Left Out: 100.200+/-403.009 $\chi^2$/NDF:8.4/4

Right Out: 323.164+/-458.862 $\chi^2$/NDF: 19.0/18

Left In: -386.242+/-2513.974 $\chi^2$/NDF:0.8/2

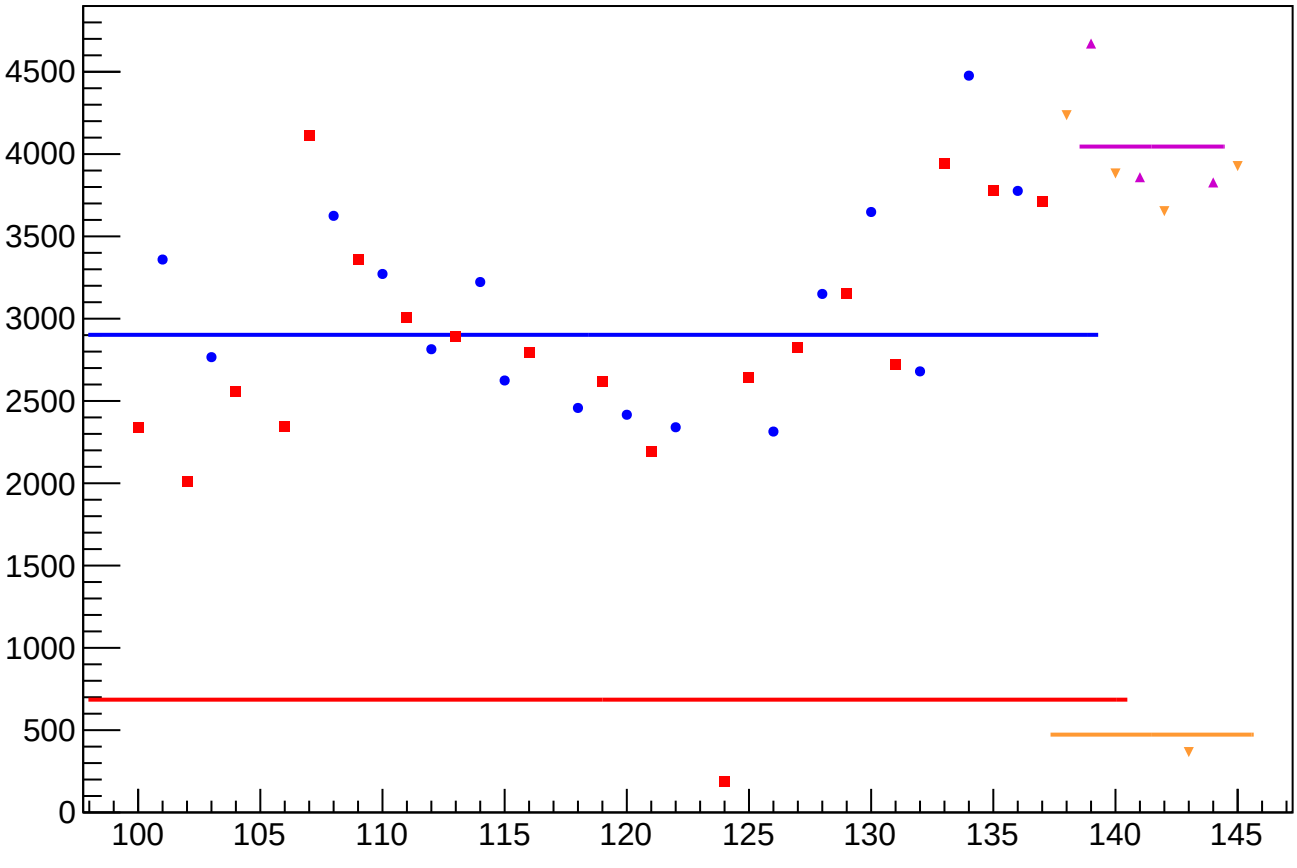
Left: 88.012+/-397.928 $\chi^2$/NDF: 9.2/7

Right: 364.218+/-423.500 $\chi^2$/NDF: 33.9/34

In: 441.661+/-1007.849 $\chi^2$/NDF:15.8/18

Out: 197.293+/-302.803 $\chi^2$/NDF:27.5/23

All: 217.525+/-289.997 $\chi^2$/NDF: 43.4/42




Right In: 2901.861+/-0.778 $\chi^2$/NDF: 480934.2/15

Left Out: 472.853+/-0.285 $\chi^2$/NDF:4535807.7/4

Right Out: 685.257+/-0.324 $\chi^2$/NDF: 10105797.4/18

Left In: 4045.658+/-1.778 $\chi^2$/NDF:40112.8/2

Left: 562.368+/-0.281 $\chi^2$/NDF: 8514205.2/7

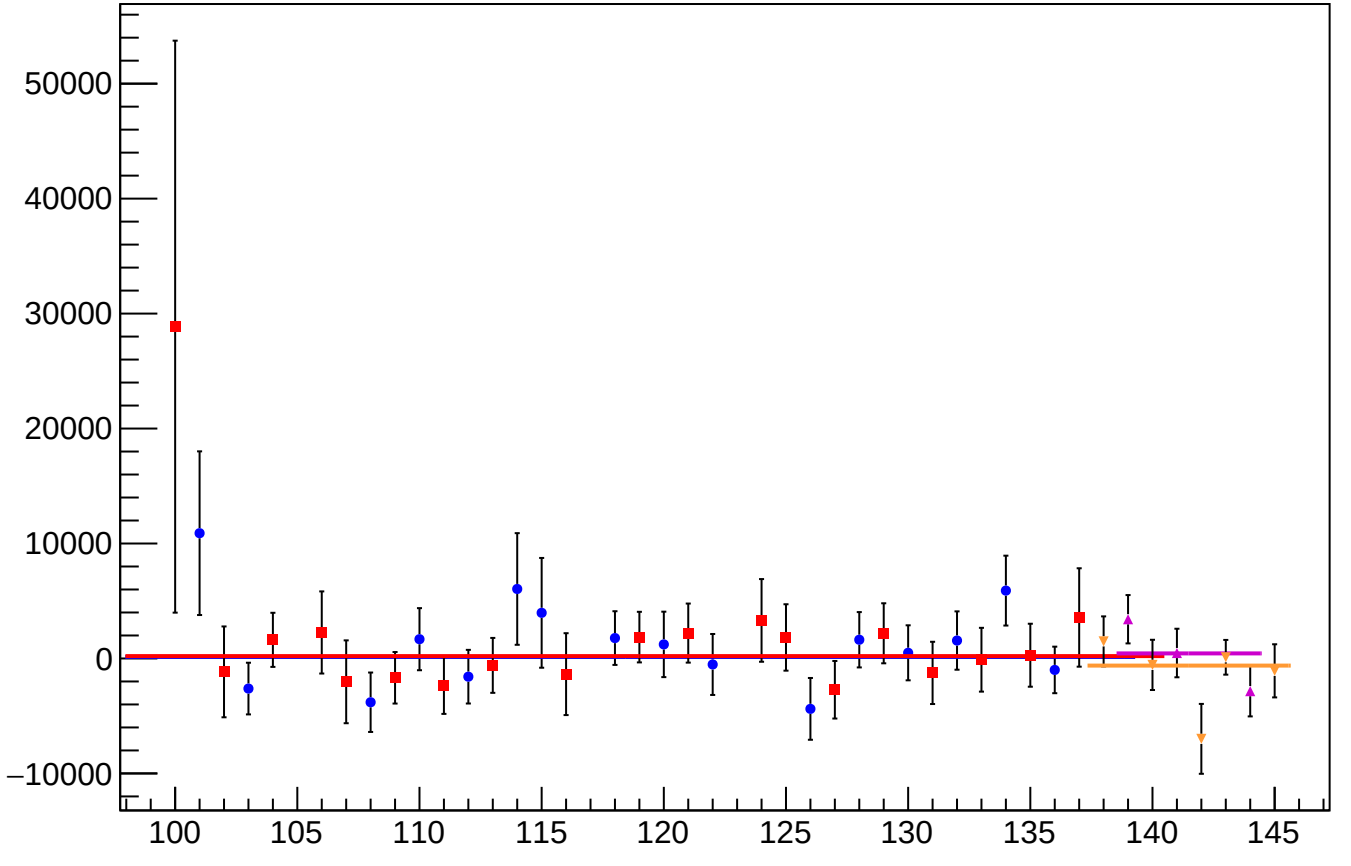
Right: 1013.738+/-0.299 $\chi^2$/NDF: 17502877.4/34

In: 3085.692+/-0.713 $\chi^2$/NDF:868513.3/18

Out: 565.348+/-0.214 $\chi^2$/NDF:14883529.2/23

All: 774.015+/-0.205 $\chi^2$/NDF: 27223686.5/42

# dit_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 133.838+/-671.621 $\chi^2$/NDF: 17.3/15

Left Out: -619.674+/-930.468 $\chi^2$/NDF:5.6/4

Right Out: 205.424+/-654.444 $\chi^2$/NDF: 9.7/18

Left In: 440.445+/-1232.936 $\chi^2$/NDF:4.2/2

Left: -234.989+/-742.704 $\chi^2$/NDF: 10.3/7

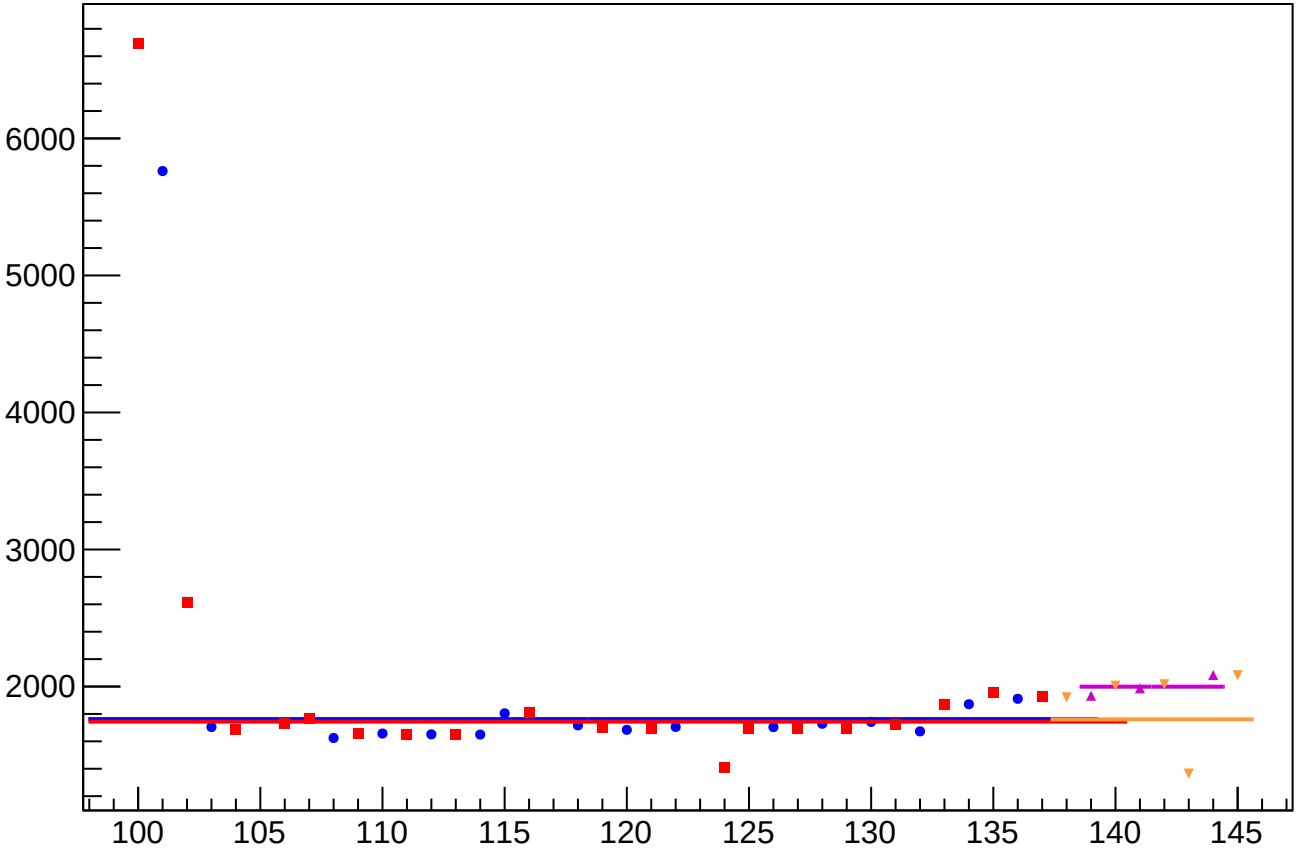
Right: 170.558+/-468.717 $\chi^2$/NDF: 27.0/34

In: 203.999+/-589.792 $\chi^2$/NDF:21.6/18

Out: -67.658+/-535.298 $\chi^2$/NDF:15.8/23

All: 55.043+/-396.381 $\chi^2$/NDF: 37.5/42

# dit_asym_atr1l2_dd_rms vs Slug, Sign Corrected




Right In: 1762.052+/-0.475 $\chi^2$/NDF: 667696.6/15

Left Out: 1760.010+/-0.658 $\chi^2$/NDF:226739.2/4

Right Out: 1743.723+/-0.461 $\chi^2$/NDF: 227762.1/18

Left In: 1998.817+/-0.872 $\chi^2$/NDF:5052.7/2

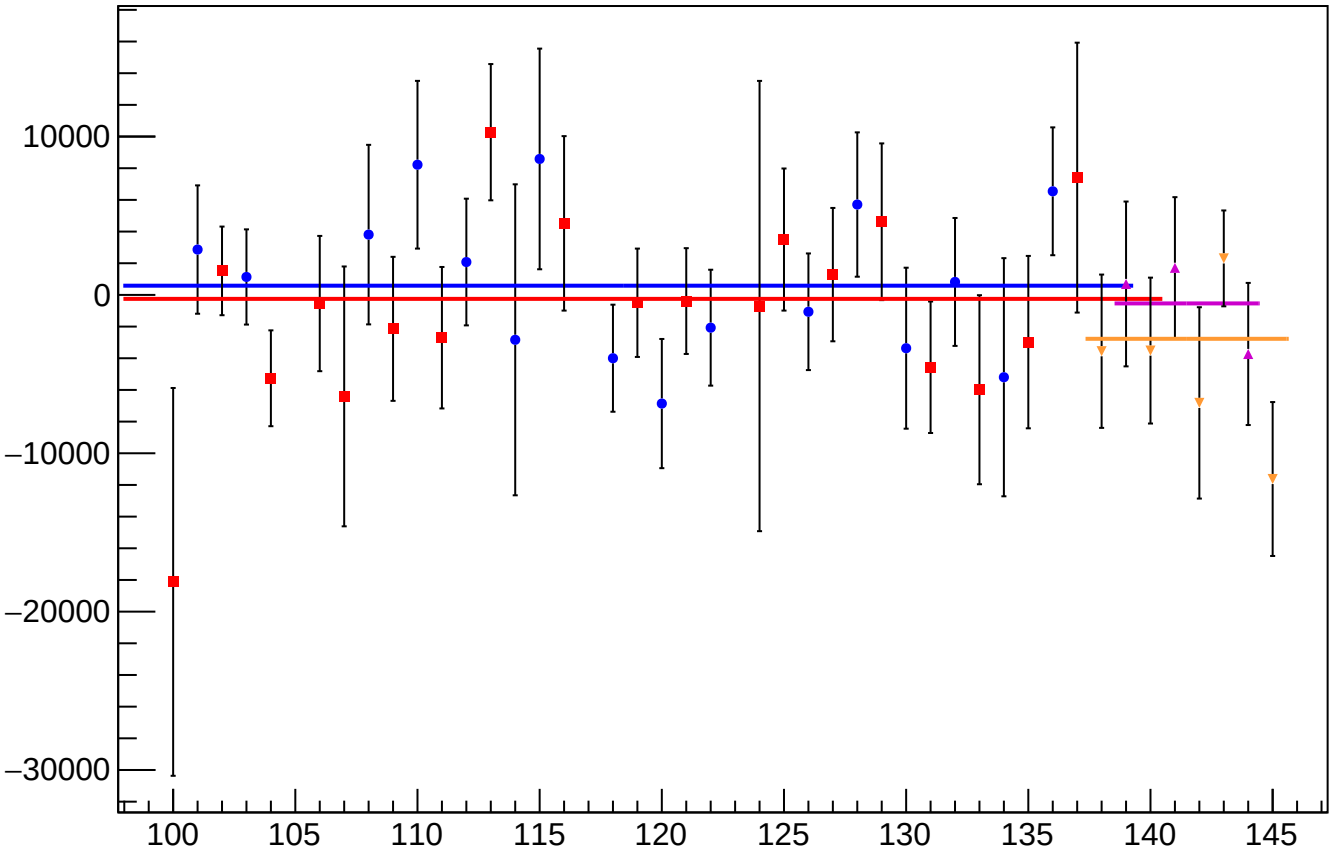
Left: 1846.666+/-0.525 $\chi^2$/NDF: 279596.6/7

Right: 1752.624+/-0.331 $\chi^2$/NDF: 896224.9/34

In: 1816.231+/-0.417 $\chi^2$/NDF:729625.9/18

Out: 1749.093+/-0.378 $\chi^2$/NDF:454912.0/23

All: 1779.354+/-0.280 $\chi^2$/NDF: 1198773.2/42




Right In: 582.223+/-1081.481 $\chi^2$/NDF: 14.9/15

Left Out: -2772.048+/-1929.167 $\chi^2$/NDF:6.6/4

Right Out: -250.224+/-1021.012 $\chi^2$/NDF: 17.9/18

Left In: -537.327+/-2703.056 $\chi^2$/NDF:0.8/2

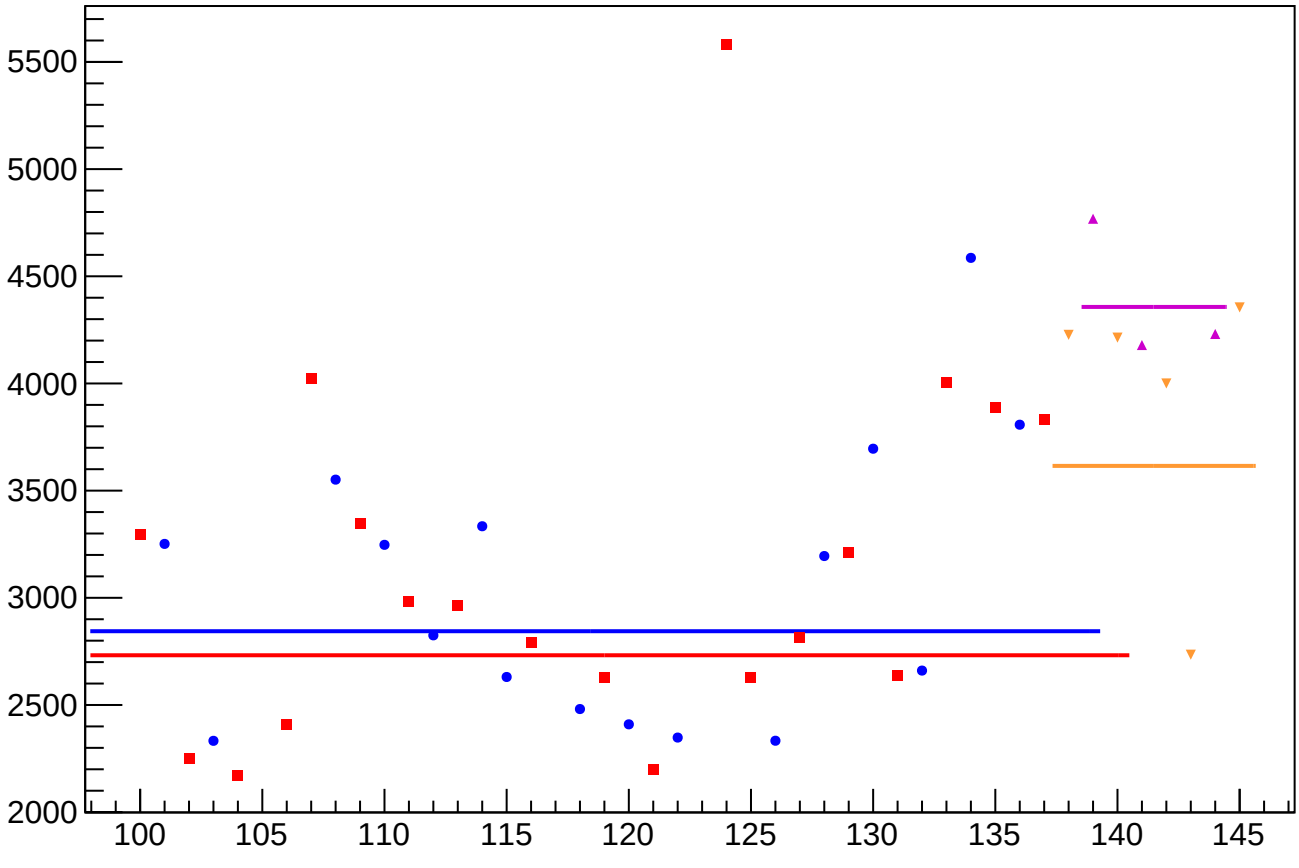
Left: -2017.897+/-1570.264 $\chi^2$/NDF: 7.9/7

Right: 142.078+/-742.422 $\chi^2$/NDF: 33.1/34

In: 427.739+/-1004.097 $\chi^2$/NDF:15.8/18

Out: -802.037+/-902.419 $\chi^2$/NDF:25.9/23

All: -252.549+/-671.184 $\chi^2$/NDF: 42.6/42




Right In: 2844.153+/-0.765 $\chi^2$/NDF: 542032.5/15

Left Out: 3615.439+/-1.364 $\chi^2$/NDF:289434.8/4

Right Out: 2731.978+/-0.722 $\chi^2$/NDF: 611275.1/18

Left In: 4357.056+/-1.911 $\chi^2$/NDF:17255.9/2

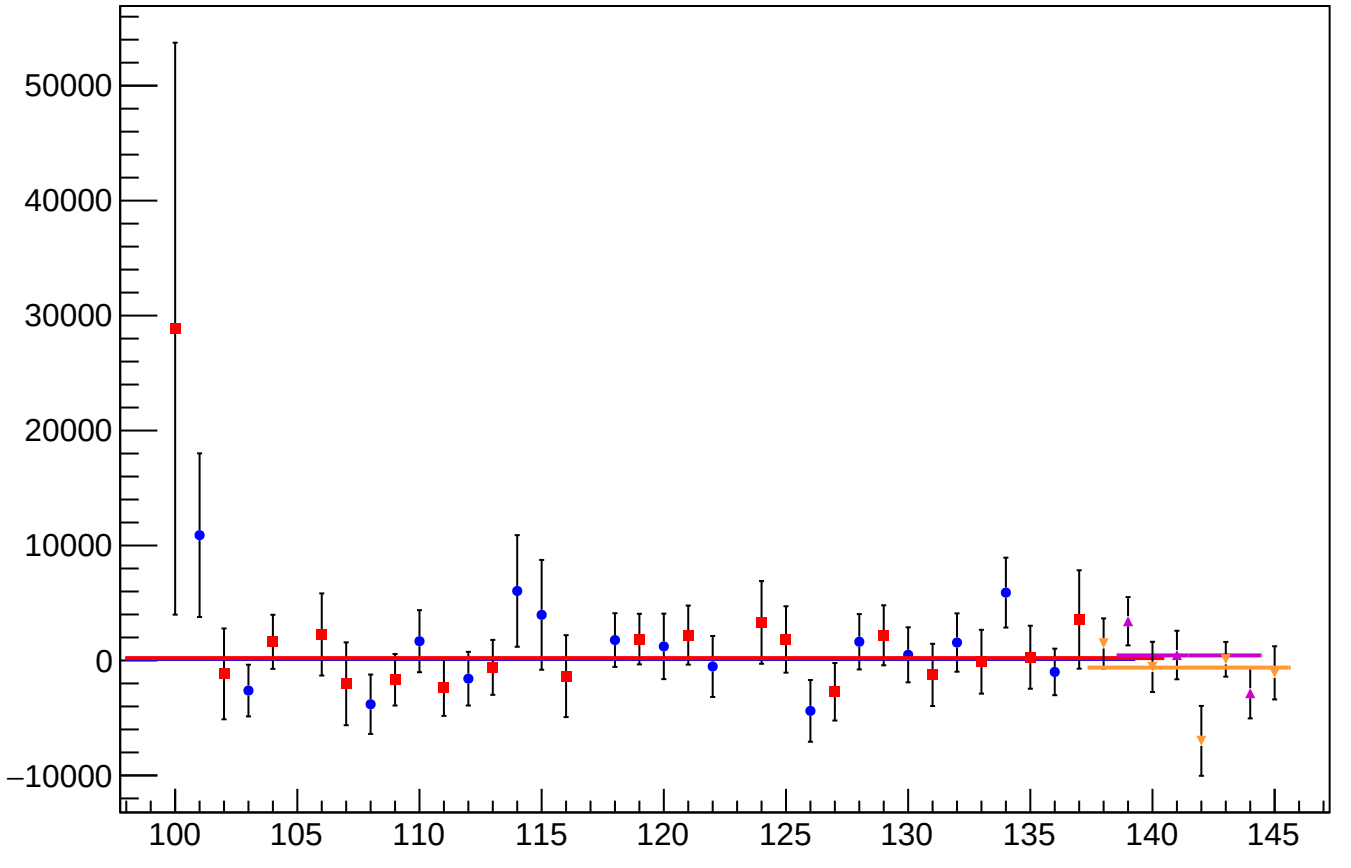
Left: 3865.712+/-1.110 $\chi^2$/NDF: 406434.3/7

Right: 2784.841+/-0.525 $\chi^2$/NDF: 1164684.5/34

In: 3052.915+/-0.710 $\chi^2$/NDF:1099365.4/18

Out: 2925.292+/-0.638 $\chi^2$/NDF:1228367.2/23

All: 2982.316+/-0.475 $\chi^2$/NDF: 2345605.9/42




Right In: 133.837+/-671.621 $\chi^2$/NDF: 17.3/15

Left Out: -619.687+/-930.468 $\chi^2$/NDF:5.6/4

Right Out: 205.422+/-654.444 $\chi^2$/NDF: 9.7/18

Left In: 440.440+/-1232.937 $\chi^2$/NDF:4.2/2

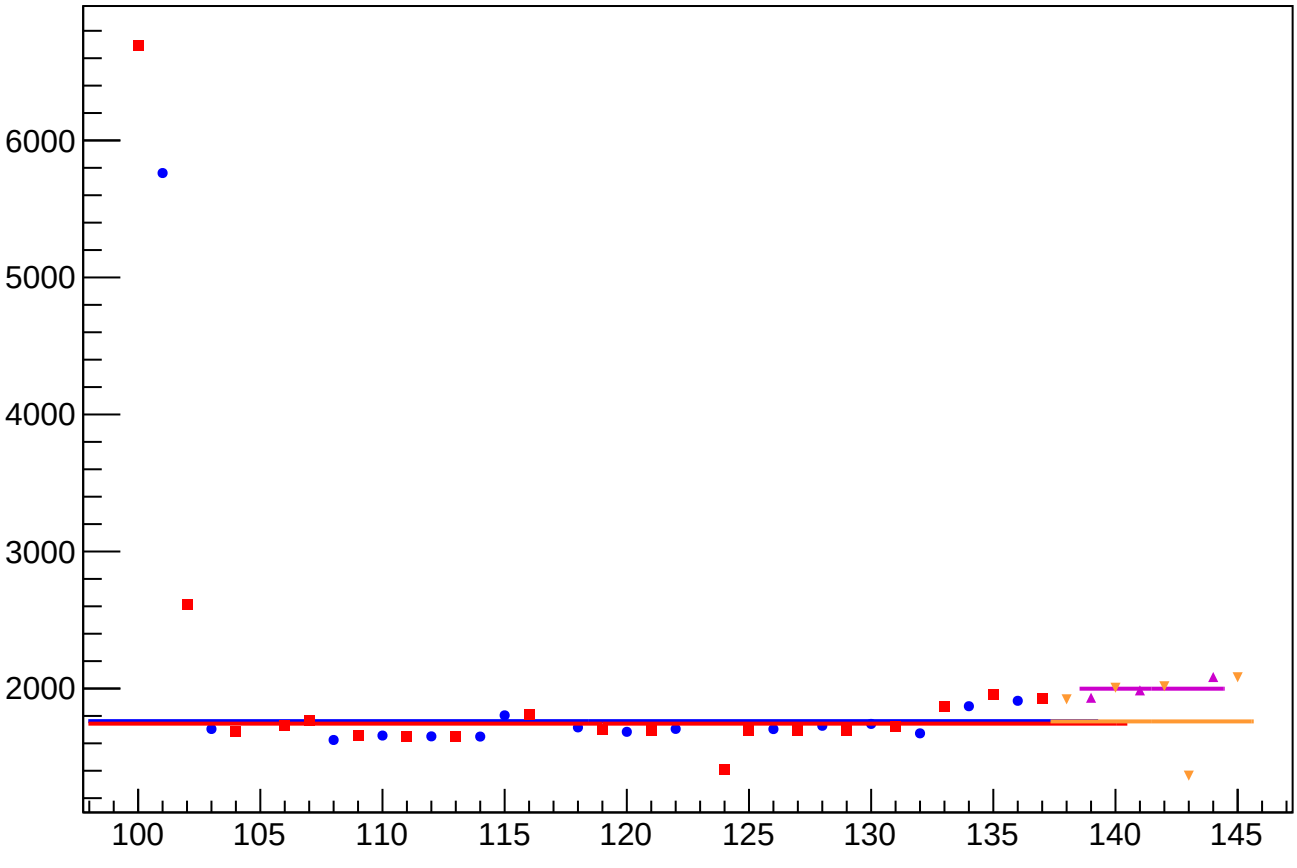
Left: -235.000+/-742.704 $\chi^2$/NDF: 10.3/7

Right: 170.557+/-468.717 $\chi^2$/NDF: 27.0/34

In: 203.997+/-589.792 $\chi^2$/NDF:21.6/18

Out: -67.664+/-535.298 $\chi^2$/NDF:15.8/23

All: 55.040+/-396.381 $\chi^2$/NDF: 37.5/42




Right In: 1762.052+/-0.475 $\chi^2$/NDF: 667696.6/15

Left Out: 1760.011+/-0.658 $\chi^2$/NDF:226740.1/4

Right Out: 1743.723+/-0.461 $\chi^2$/NDF: 227762.1/18

Left In: 1998.818+/-0.872 $\chi^2$/NDF:5052.7/2

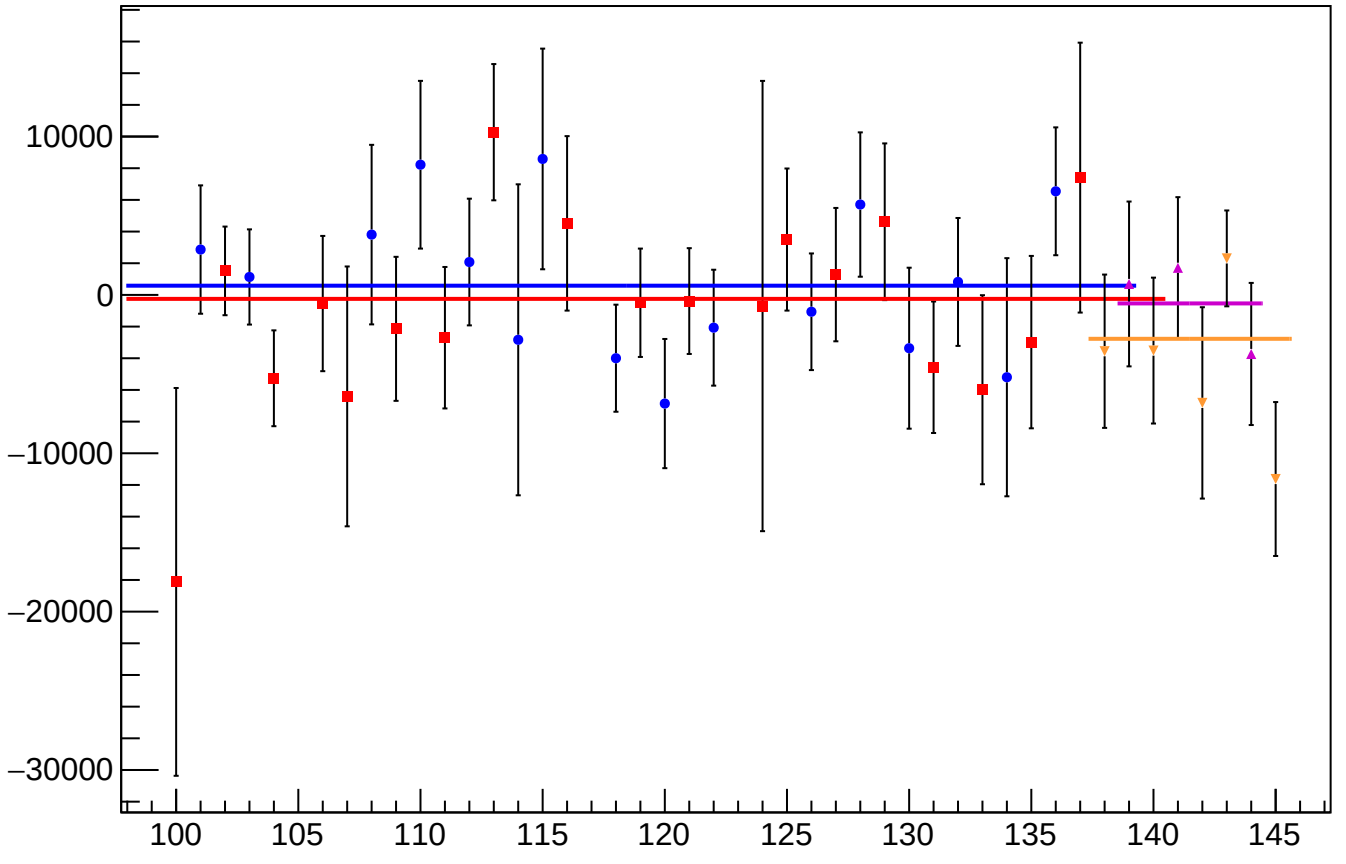
Left: 1846.667+/-0.525 $\chi^2$/NDF: 279597.8/7

Right: 1752.624+/-0.331 $\chi^2$/NDF: 896224.9/34

In: 1816.232+/-0.417 $\chi^2$/NDF:729626.5/18

Out: 1749.093+/-0.378 $\chi^2$/NDF:454913.0/23

All: 1779.354+/-0.280 $\chi^2$/NDF: 1198774.8/42




Right In: 582.219+/-1081.478 $\chi^2$/NDF: 14.9/15

Left Out: -2772.051+/-1929.170 $\chi^2$/NDF:6.6/4

Right Out: -250.225+/-1021.010 $\chi^2$/NDF: 17.9/18

Left In: -537.330+/-2703.063 $\chi^2$/NDF:0.8/2

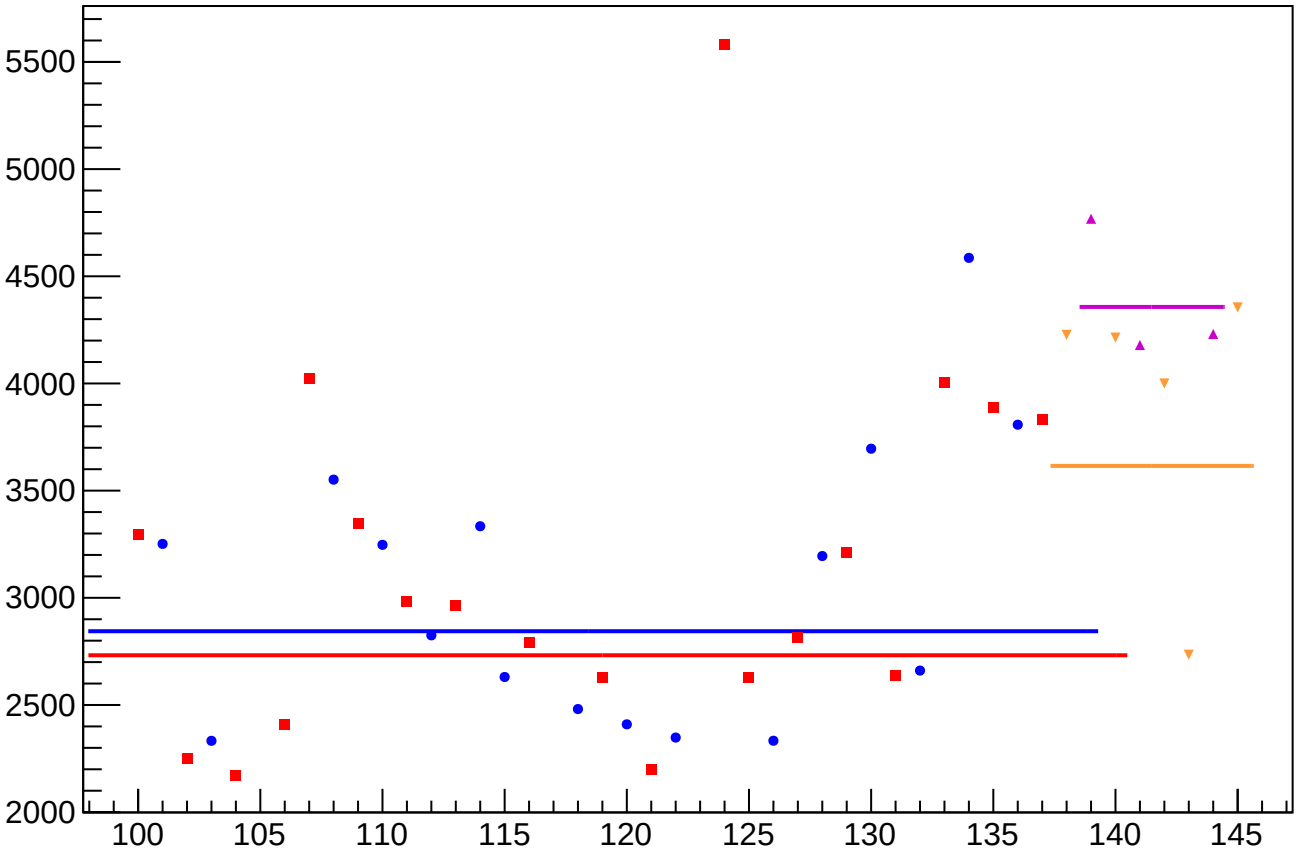
Left: -2017.901+/-1570.267 $\chi^2$/NDF: 7.9/7

Right: 142.075+/-742.420 $\chi^2$/NDF: 33.1/34

In: 427.736+/-1004.095 $\chi^2$/NDF:15.8/18

Out: -802.034+/-902.417 $\chi^2$/NDF:25.9/23

All: -252.549+/-671.183 $\chi^2$/NDF: 42.6/42




Right In: 2844.145+/-0.765 $\chi^2$/NDF: 542036.2/15

Left Out: 3615.444+/-1.364 $\chi^2$/NDF:289438.8/4

Right Out: 2731.972+/-0.722 $\chi^2$/NDF: 611272.5/18

Left In: 4357.066+/-1.911 $\chi^2$/NDF:17256.5/2

Left: 3865.719+/-1.110 $\chi^2$/NDF: 406439.9/7

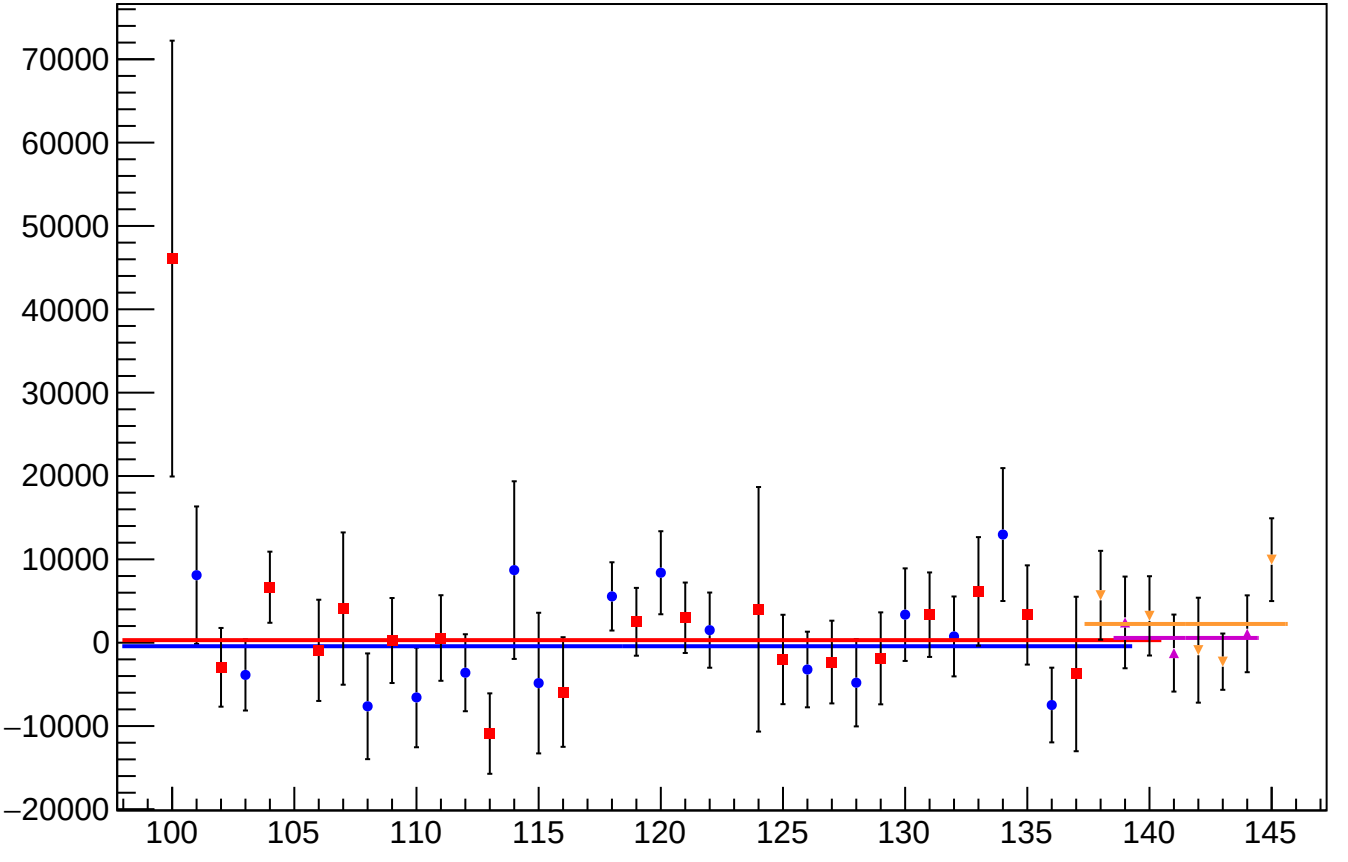
Right: 2784.835+/-0.525 $\chi^2$/NDF: 1164685.2/34

In: 3052.908+/-0.710 $\chi^2$/NDF:1099380.8/18

Out: 2925.288+/-0.638 $\chi^2$/NDF:1228376.0/23

All: 2982.311+/-0.475 $\chi^2$/NDF: 2345629.4/42

# asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: -423.131+/-1327.258 $\chi^2$/NDF: 17.9/15

Left Out: 2249.277+/-2072.102 $\chi^2$/NDF:4.9/4

Right Out: 307.823+/-1275.718 $\chi^2$/NDF: 15.3/18

Left In: 570.585+/-2807.148 $\chi^2$/NDF:0.3/2

Left: 1657.210+/-1667.114 $\chi^2$/NDF: 5.4/7

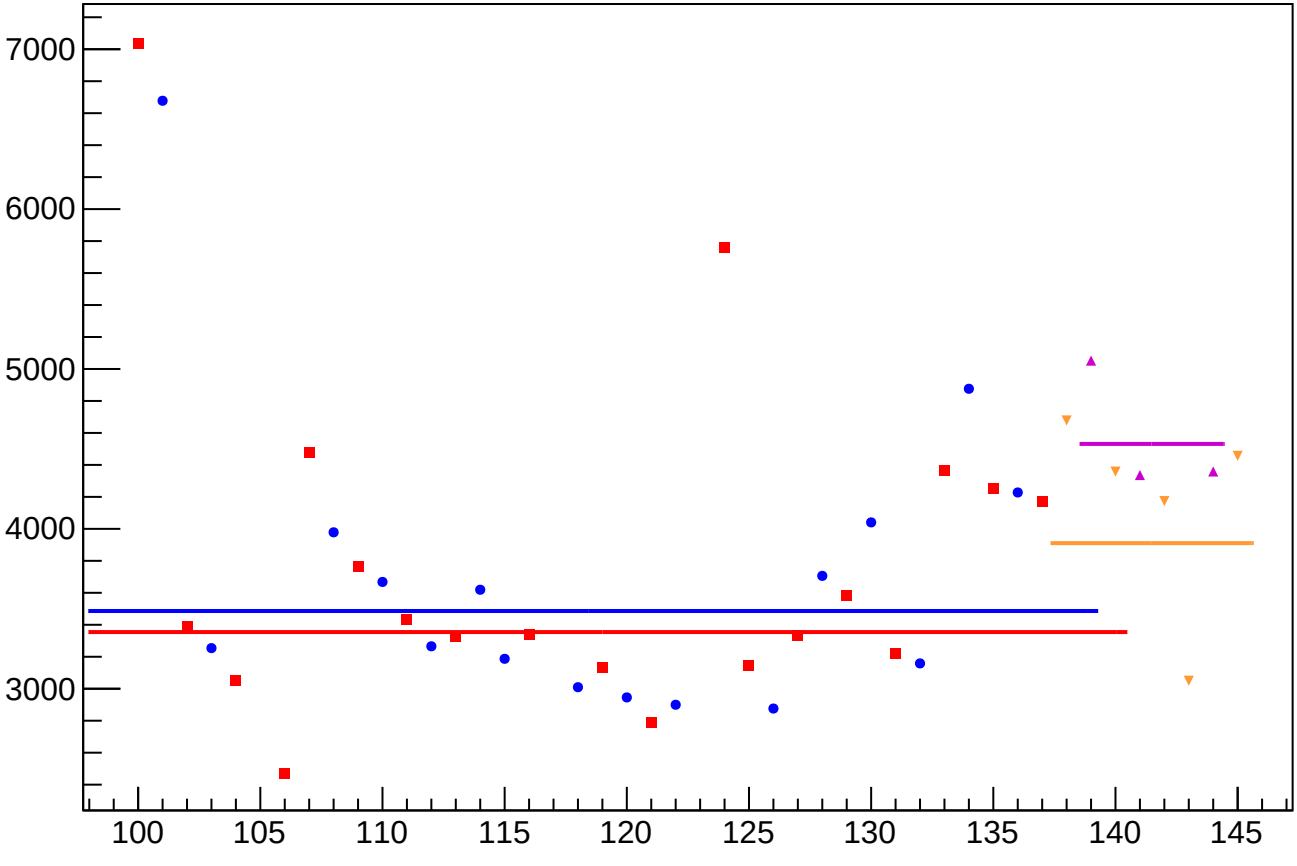
Right: -43.186+/-919.750 $\chi^2$/NDF: 33.3/34

In: -241.571+/-1199.897 $\chi^2$/NDF:18.3/18

Out: 841.449+/-1086.340 $\chi^2$/NDF:20.8/23

All: 353.600+/-805.320 $\chi^2$/NDF: 39.6/42

# asym_atr1l2_dd_rms vs Slug, Sign Corrected




Right In: 3486.167+/-0.939 $\chi^2$/NDF: 595790.9/15

Left Out: 3910.622+/-1.465 $\chi^2$/NDF:216870.8/4

Right Out: 3354.426+/-0.889 $\chi^2$/NDF: 376426.3/18

Left In: 4531.272+/-1.985 $\chi^2$/NDF:24300.6/2

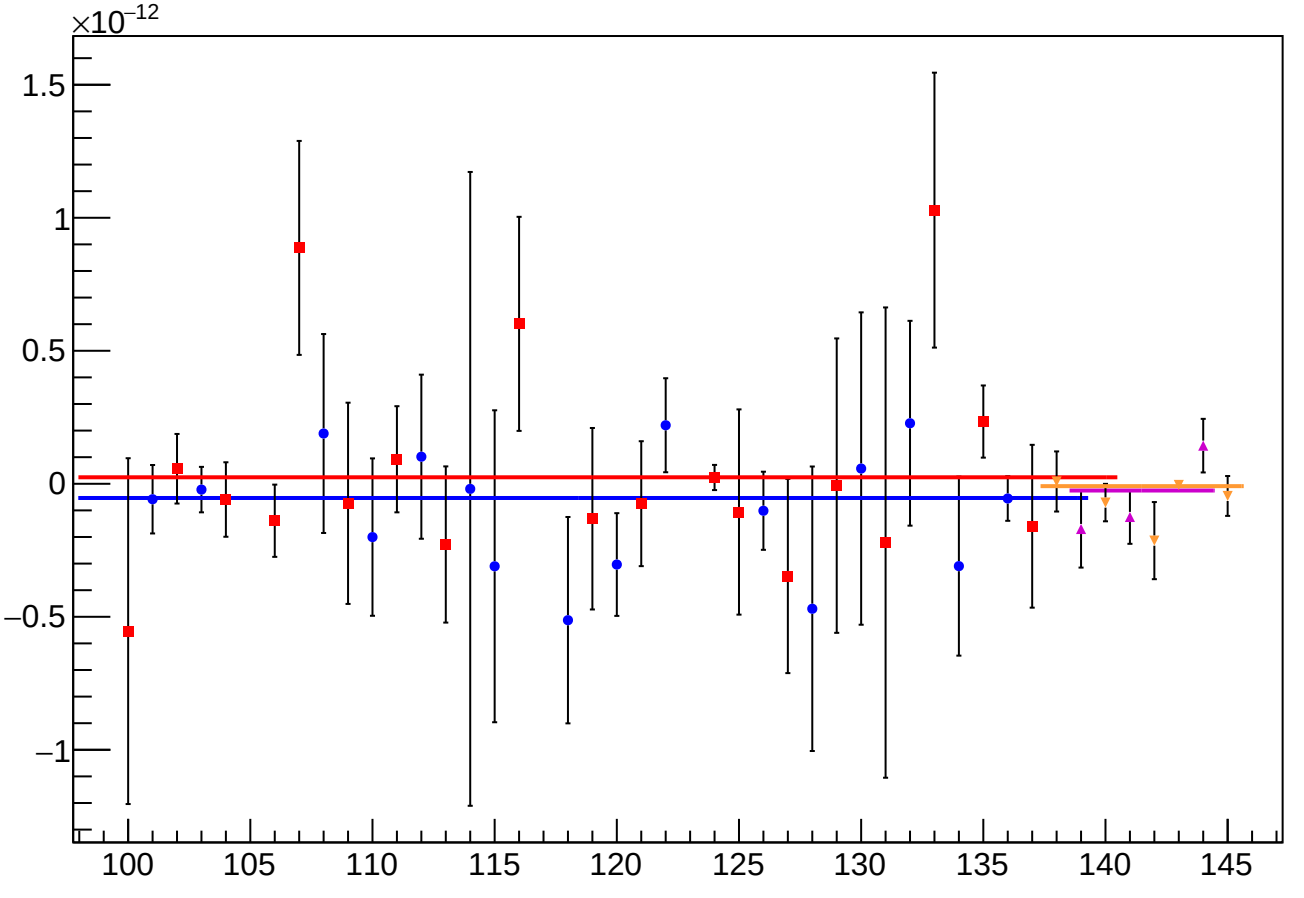
Left: 4129.522+/-1.179 $\chi^2$/NDF: 304456.5/7

Right: 3416.767+/-0.646 $\chi^2$/NDF: 982597.4/34

In: 3677.115+/-0.848 $\chi^2$/NDF:846658.4/18

Out: 3504.209+/-0.760 $\chi^2$/NDF:698591.0/23

All: 3581.221+/-0.566 $\chi^2$/NDF: 1568282.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.8/2

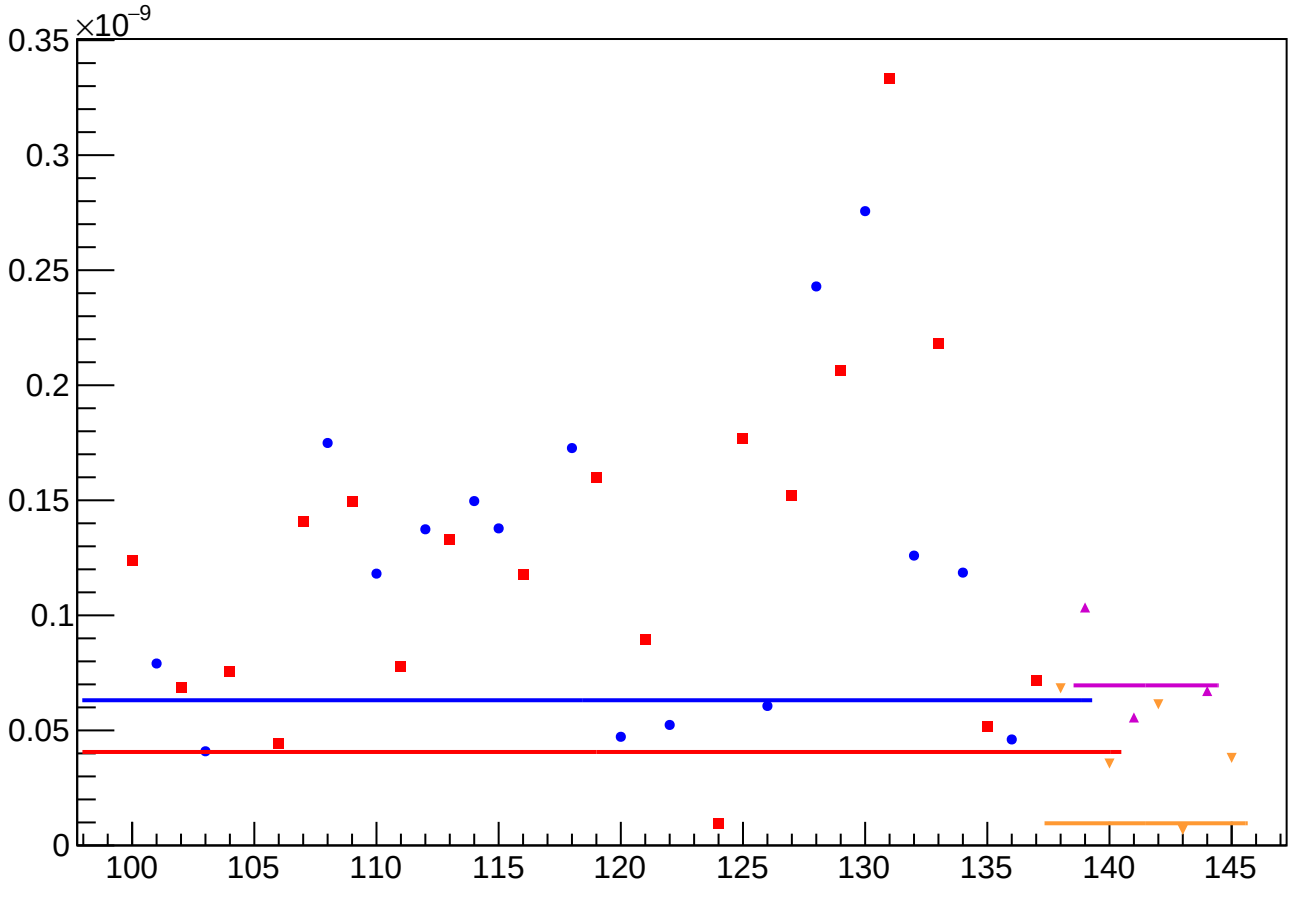
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.0/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:13.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:22.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 36.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1432018.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1453252.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3172346.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:148222.5/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 3291447.7/7

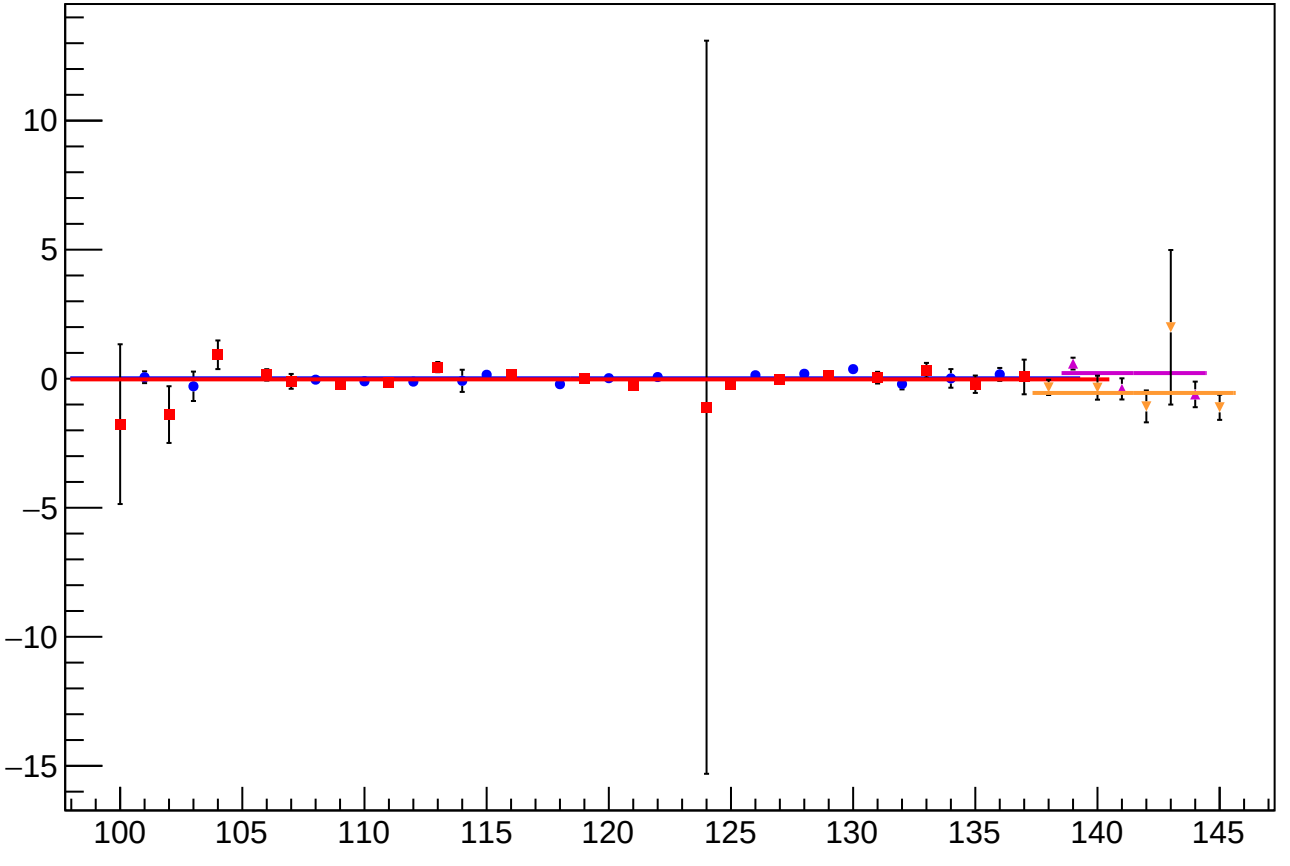
Right: 0.000+/-0.000 $\chi^2$/NDF: 4914964.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:1594001.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5968293.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11273506.1/42

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: -0.551+/-0.208 $\chi^2$/NDF:3.5/4

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.218+/-0.185 $\chi^2$/NDF:7.6/2

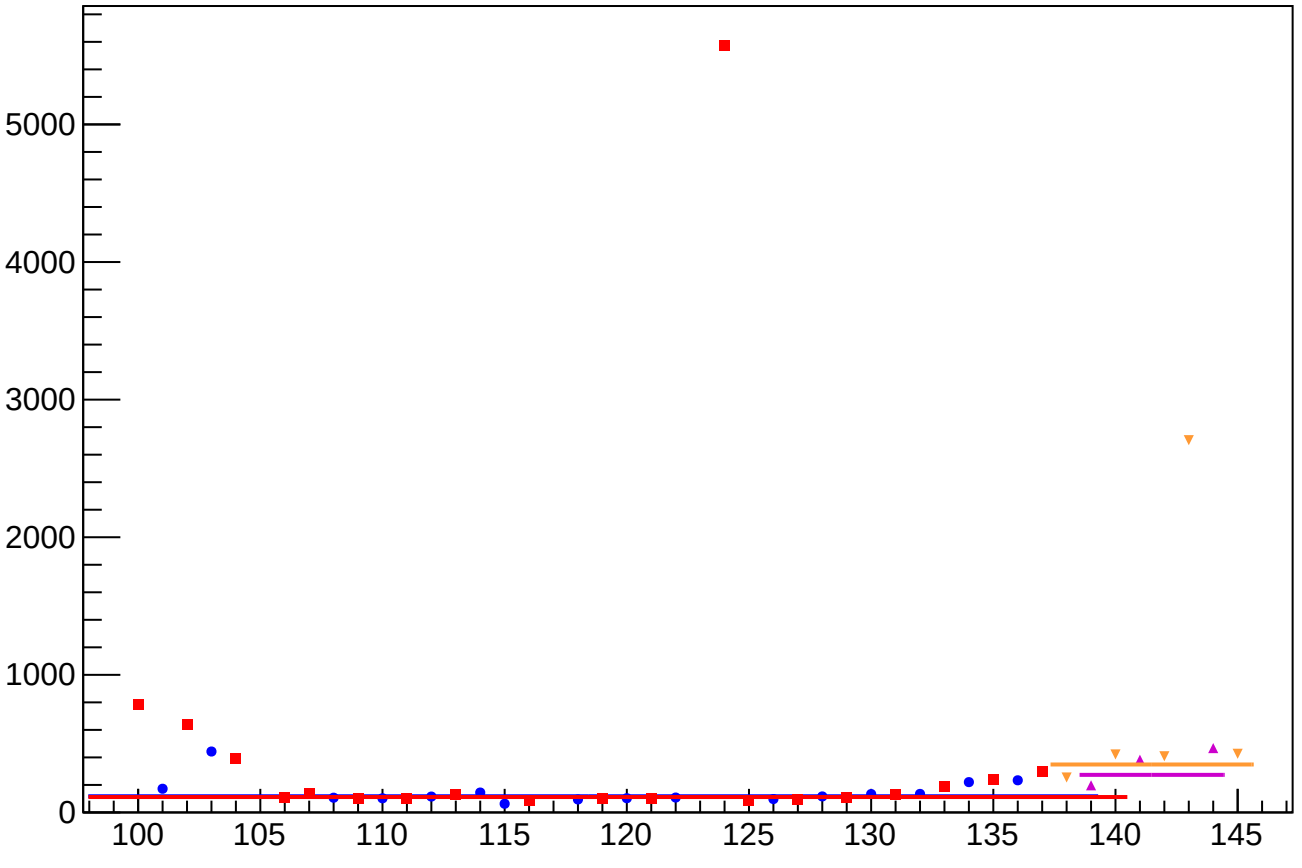
Left: -0.122+/-0.138 $\chi^2$/NDF: 18.7/7

Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.028+/-0.046 $\chi^2$/NDF:20.5/18

Out: -0.051+/-0.046 $\chi^2$/NDF:31.6/23

All: -0.012+/-0.033 $\chi^2$/NDF: 53.6/42




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722401.0/15

Left Out: 348.581+/-0.147 $\chi^2$/NDF:1563270.4/4

Right Out: 112.124+/-0.033 $\chi^2$/NDF: 2186364.8/18

Left In: 273.204+/-0.131 $\chi^2$/NDF:672866.3/2

Left: 306.508+/-0.098 $\chi^2$/NDF: 2382416.2/7

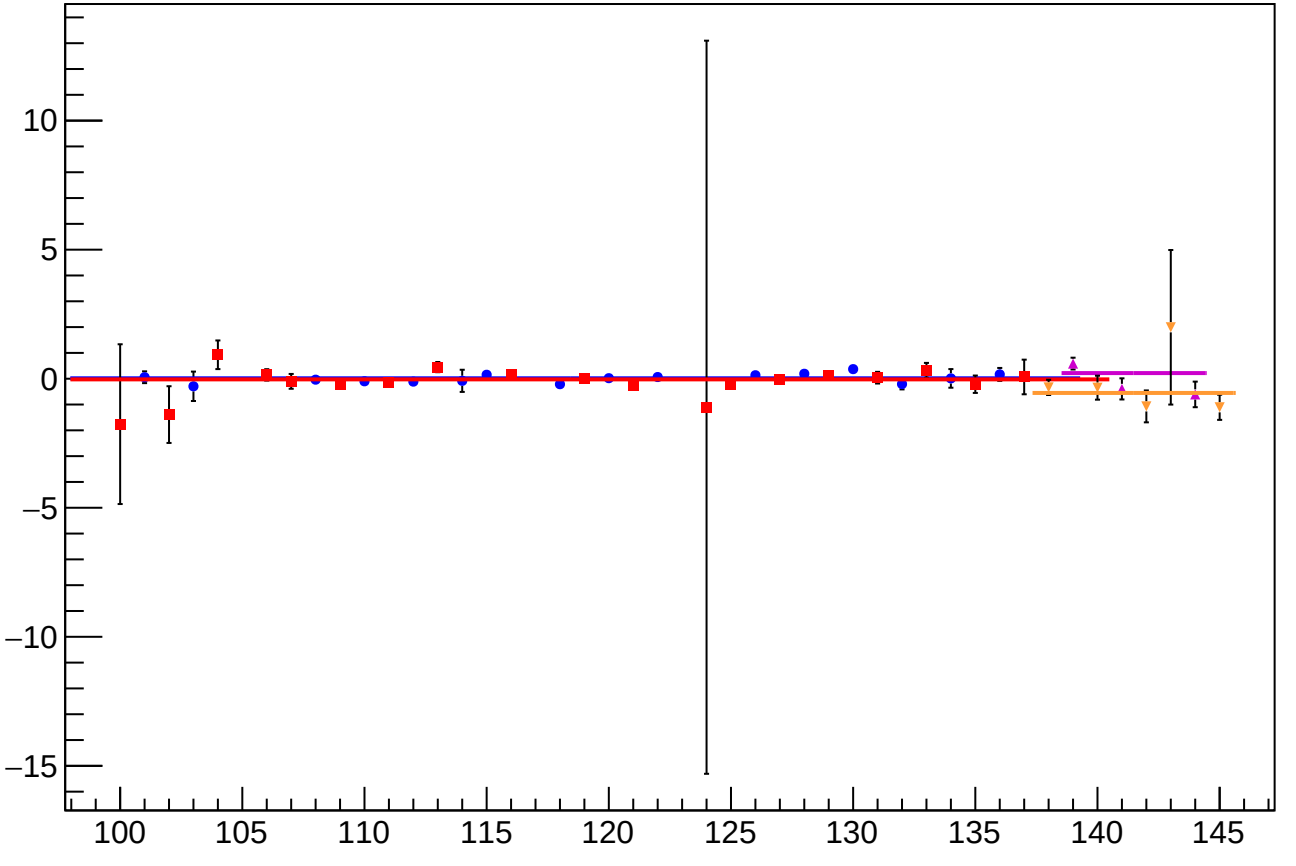
Right: 114.826+/-0.024 $\chi^2$/NDF: 3922369.6/34

In: 127.394+/-0.033 $\chi^2$/NDF:3716926.3/18

Out: 123.514+/-0.032 $\chi^2$/NDF:6204382.8/23

All: 125.426+/-0.023 $\chi^2$/NDF: 9928413.0/42

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: -0.551+/-0.208 $\chi^2$/NDF:3.5/4

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.218+/-0.185 $\chi^2$/NDF:7.6/2

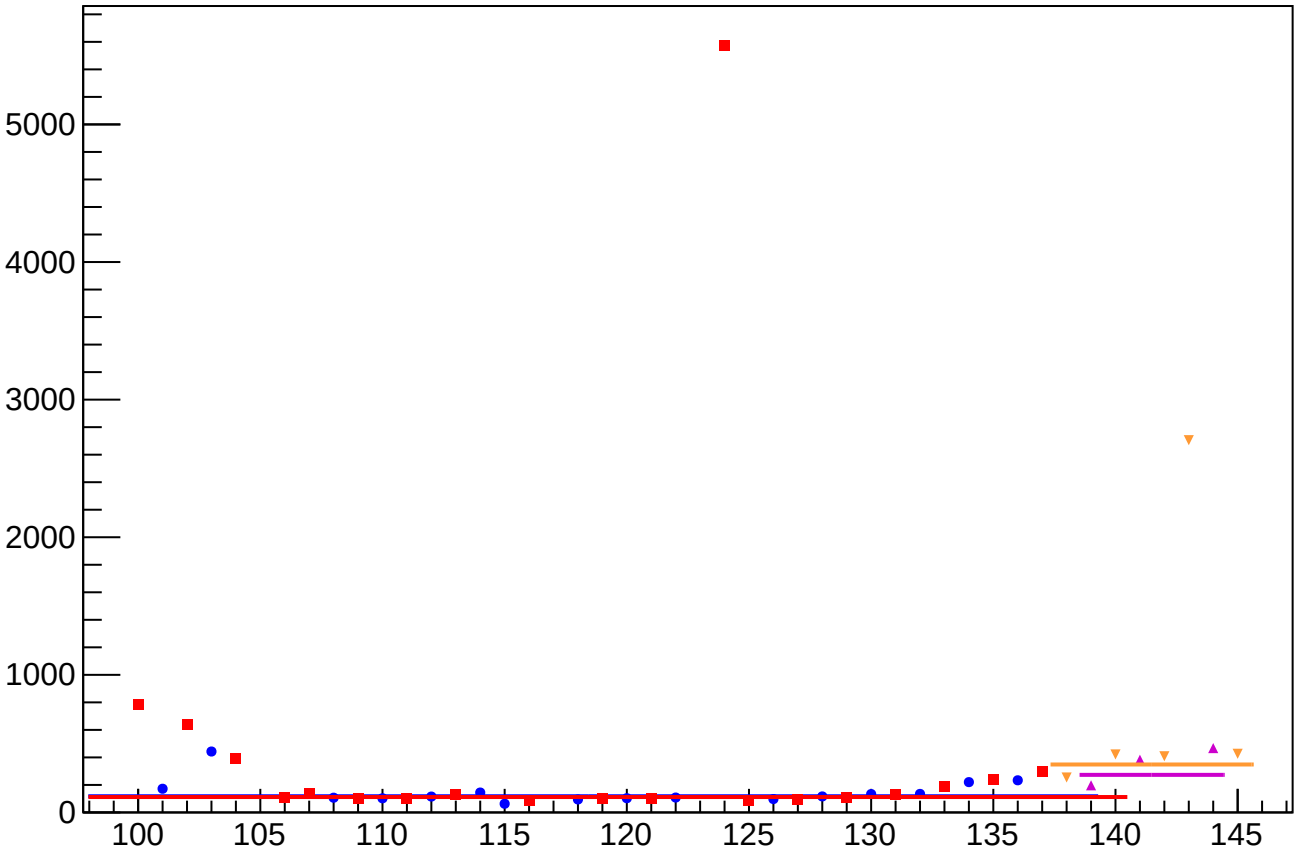
Left: -0.122+/-0.138 $\chi^2$/NDF: 18.7/7

Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.028+/-0.046 $\chi^2$/NDF:20.5/18

Out: -0.051+/-0.046 $\chi^2$/NDF:31.6/23

All: -0.012+/-0.033 $\chi^2$/NDF: 53.6/42




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722401.0/15

Left Out: 348.581+/-0.147 $\chi^2$/NDF:1563270.4/4

Right Out: 112.124+/-0.033 $\chi^2$/NDF: 2186364.8/18

Left In: 273.204+/-0.131 $\chi^2$/NDF:672866.3/2

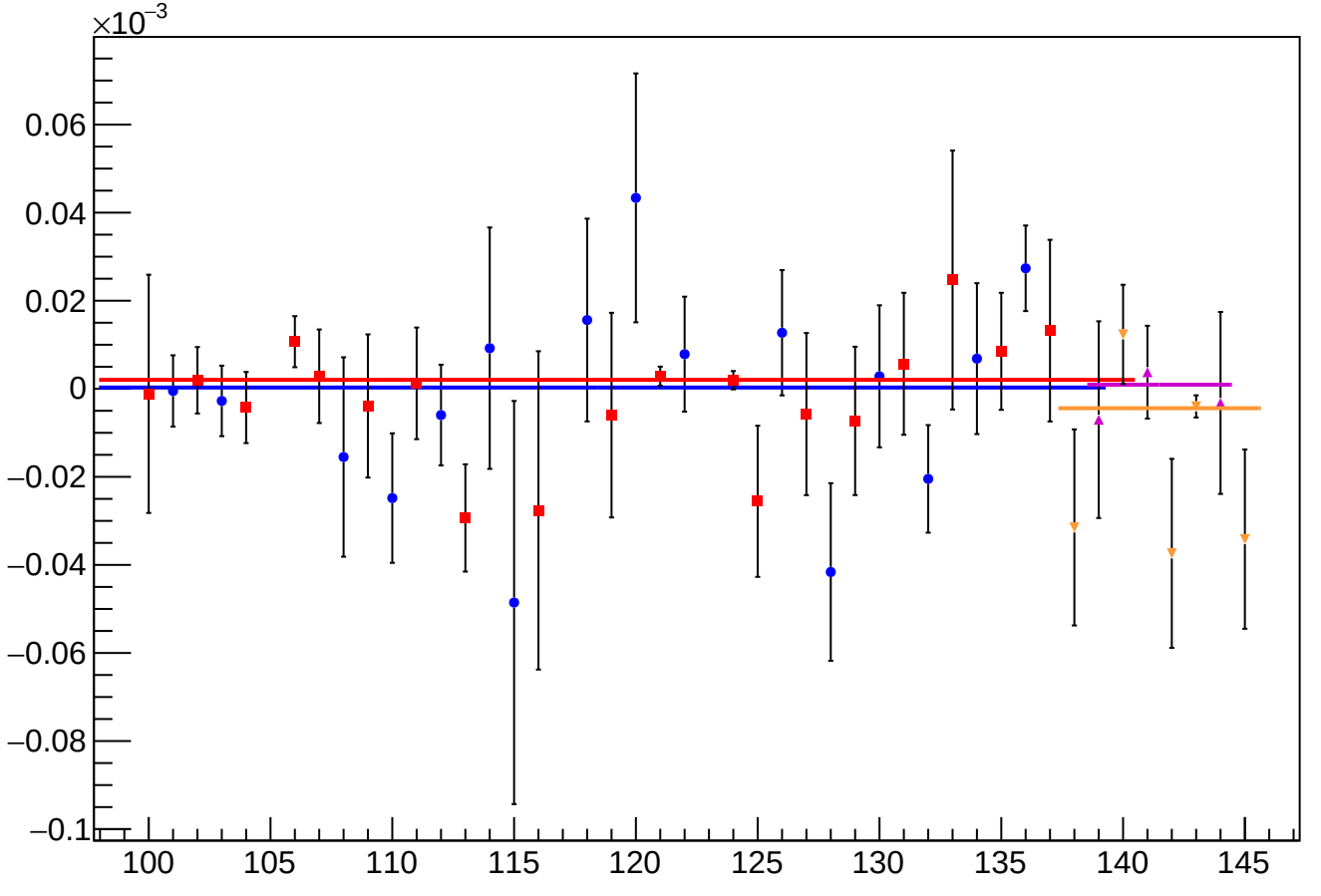
Left: 306.508+/-0.098 $\chi^2$/NDF: 2382416.2/7

Right: 114.826+/-0.024 $\chi^2$/NDF: 3922369.6/34

In: 127.394+/-0.033 $\chi^2$/NDF:3716926.3/18

Out: 123.514+/-0.032 $\chi^2$/NDF:6204382.8/23

All: 125.426+/-0.023 $\chi^2$/NDF: 9928413.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 24.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.2/2

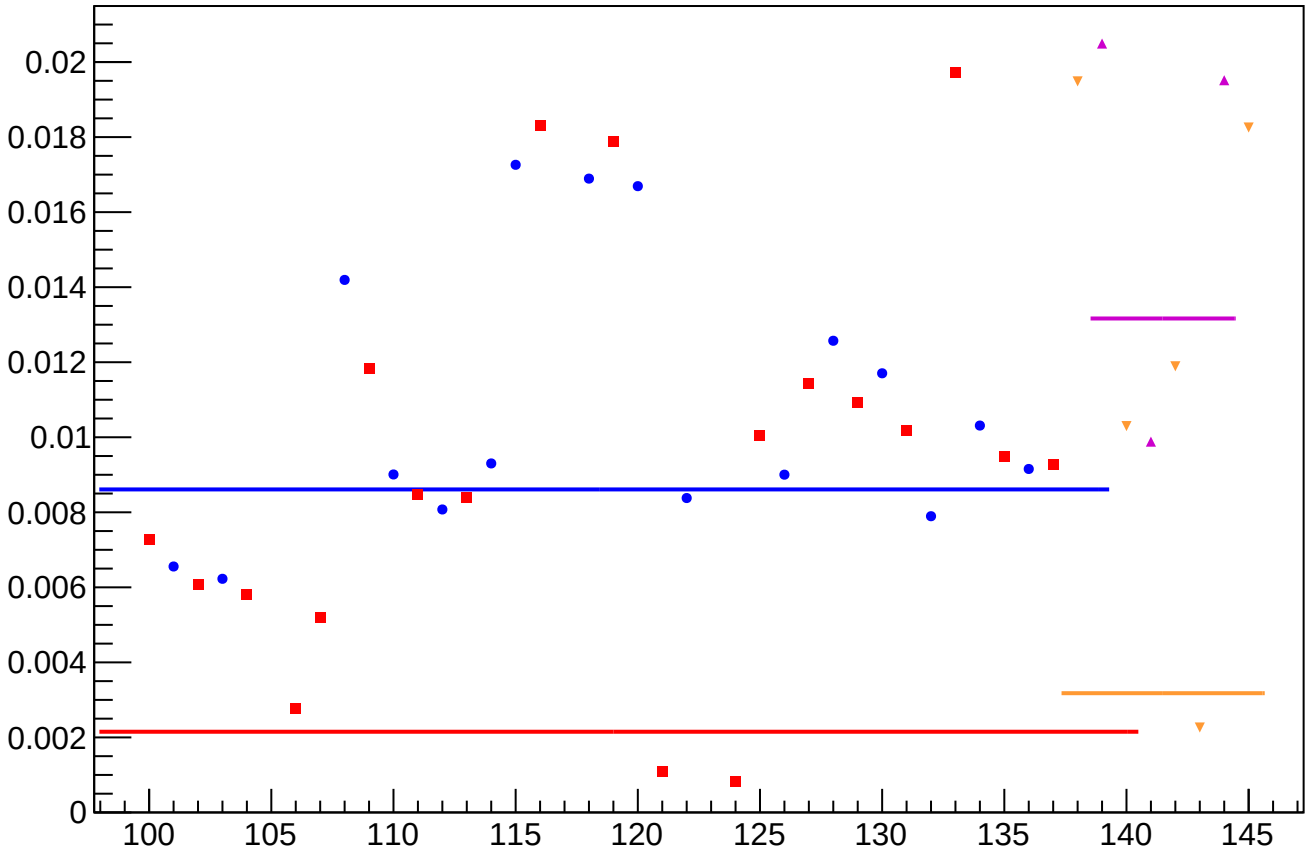
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 39.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:28.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 52.8/42




Right In: 0.009+/-0.000 $\chi^2$/NDF: 1114251.2/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3562882.7/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 9086978.1/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:598222.7/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 6633268.2/7

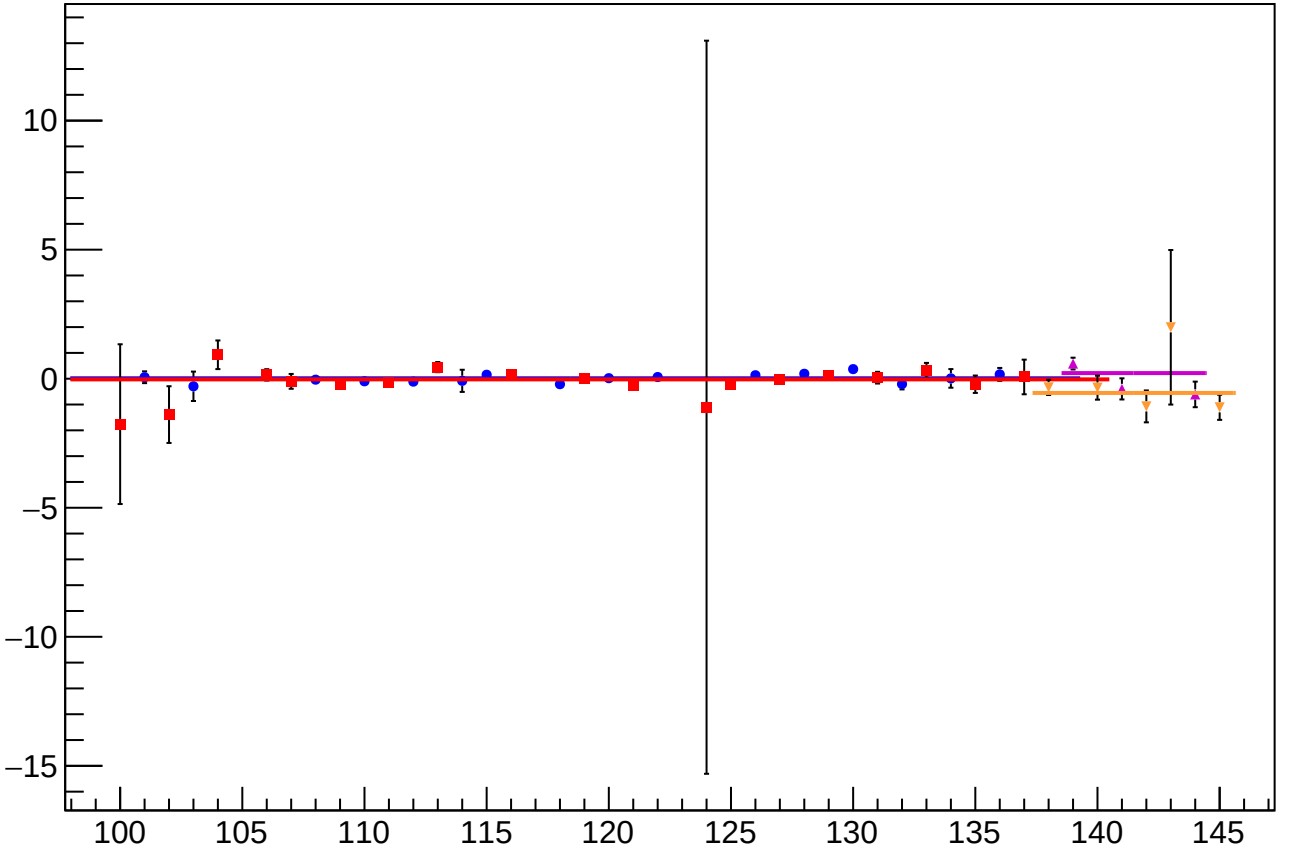
Right: 0.003+/-0.000 $\chi^2$/NDF: 16533209.6/34

In: 0.009+/-0.000 $\chi^2$/NDF:2193671.0/18

Out: 0.002+/-0.000 $\chi^2$/NDF:12927904.5/23

All: 0.003+/-0.000 $\chi^2$/NDF: 23384315.7/42

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: -0.551+/-0.208 $\chi^2$/NDF:3.5/4

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.218+/-0.185 $\chi^2$/NDF:7.6/2

Left: -0.122+/-0.138 $\chi^2$/NDF: 18.7/7

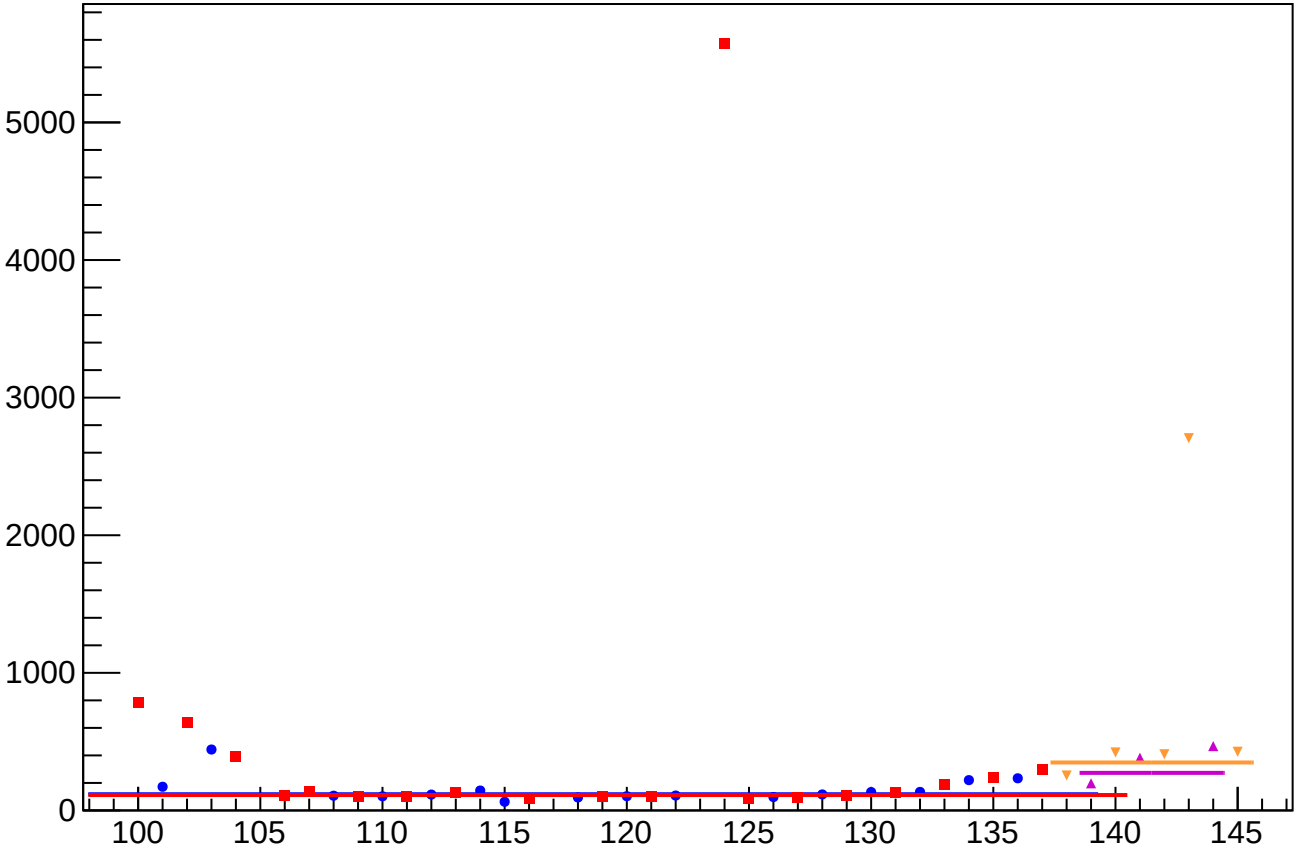
Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.028+/-0.046 $\chi^2$/NDF:20.5/18

Out: -0.051+/-0.046 $\chi^2$/NDF:31.6/23

All: -0.012+/-0.033 $\chi^2$/NDF: 53.6/42

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 117.649+/-0.034 $\chi^2$/NDF: 1722367.8/15

Left Out: 348.586+/-0.147 $\chi^2$/NDF:1563278.7/4

Right Out: 112.126+/-0.033 $\chi^2$/NDF: 2186296.2/18

Left In: 273.209+/-0.131 $\chi^2$/NDF:672856.4/2

Left: 306.513+/-0.098 $\chi^2$/NDF: 2382408.6/7

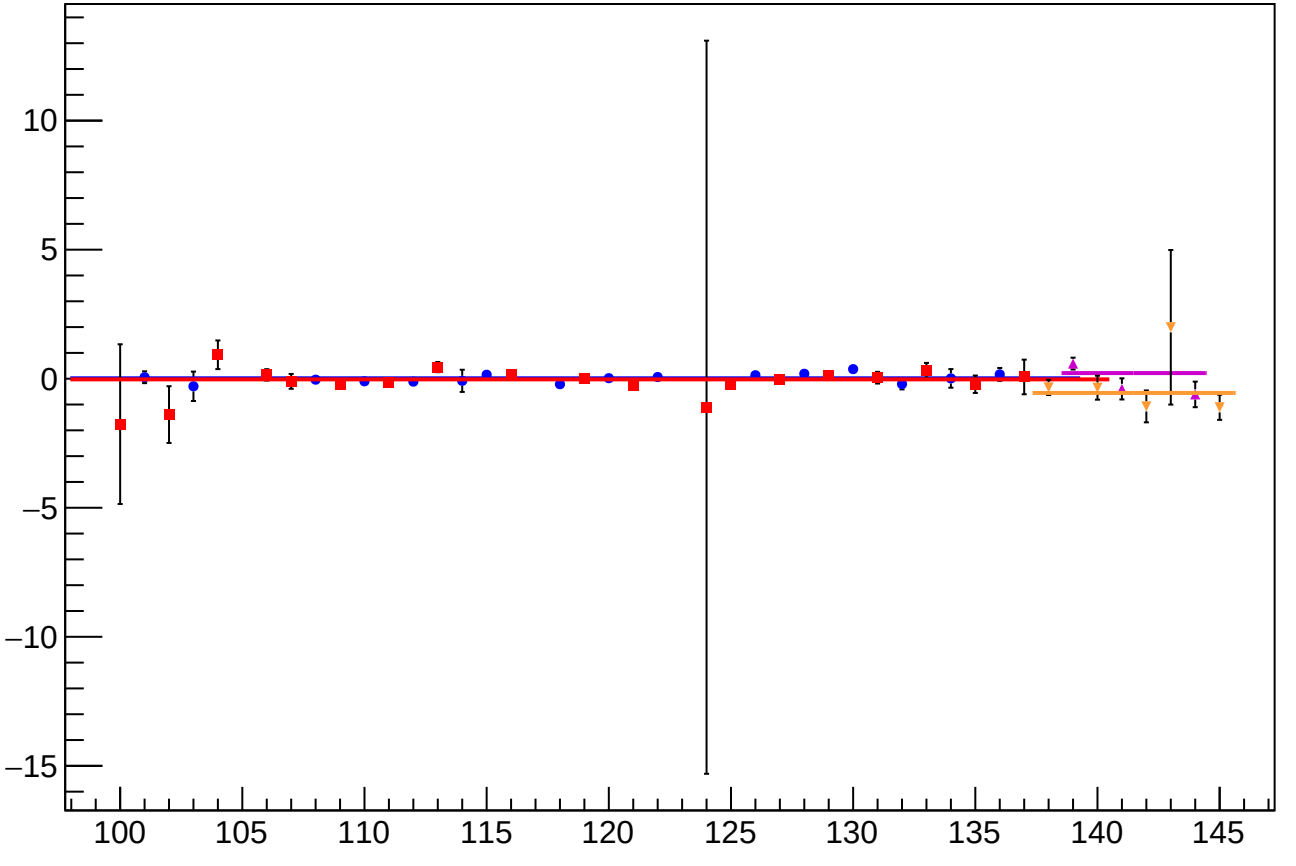
Right: 114.826+/-0.024 $\chi^2$/NDF: 3922259.7/34

In: 127.394+/-0.033 $\chi^2$/NDF:3716926.2/18

Out: 123.515+/-0.032 $\chi^2$/NDF:6204321.2/23

All: 125.426+/-0.023 $\chi^2$/NDF: 9928344.9/42

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.048 $\chi^2$/NDF: 11.8/15

Left Out: -0.551+/-0.208 $\chi^2$/NDF:3.5/4

Right Out: -0.026+/-0.047 $\chi^2$/NDF: 22.1/18

Left In: 0.218+/-0.185 $\chi^2$/NDF:7.6/2

Left: -0.122+/-0.138 $\chi^2$/NDF: 18.7/7

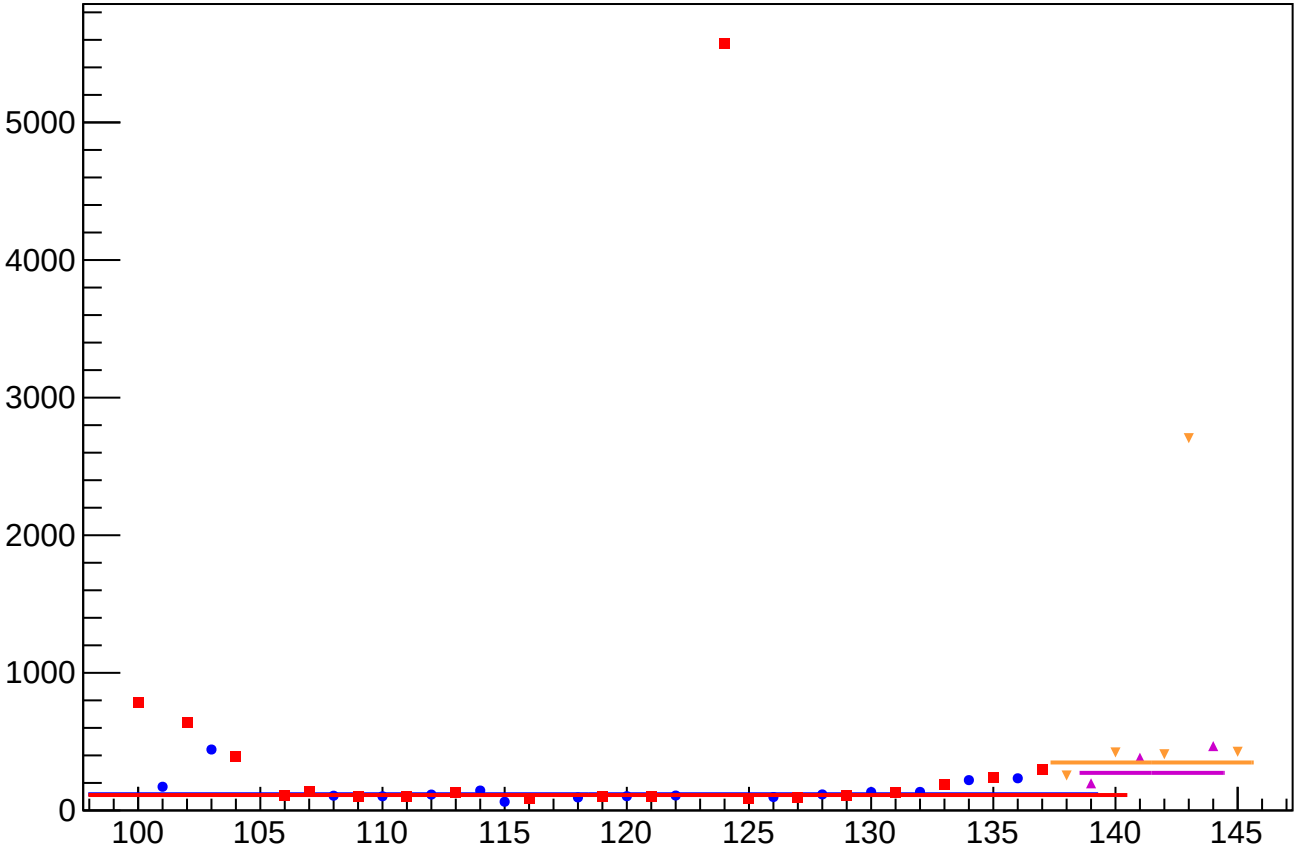
Right: -0.006+/-0.033 $\chi^2$/NDF: 34.3/34

In: 0.028+/-0.046 $\chi^2$/NDF:20.5/18

Out: -0.051+/-0.046 $\chi^2$/NDF:31.6/23

All: -0.012+/-0.033 $\chi^2$/NDF: 53.6/42

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: 348.586+/-0.147 $\chi^2$/NDF:1563278.7/4

Right Out: 112.126+/-0.033 $\chi^2$/NDF: 2186296.2/18

Left In: 273.209+/-0.131 $\chi^2$/NDF:672856.4/2

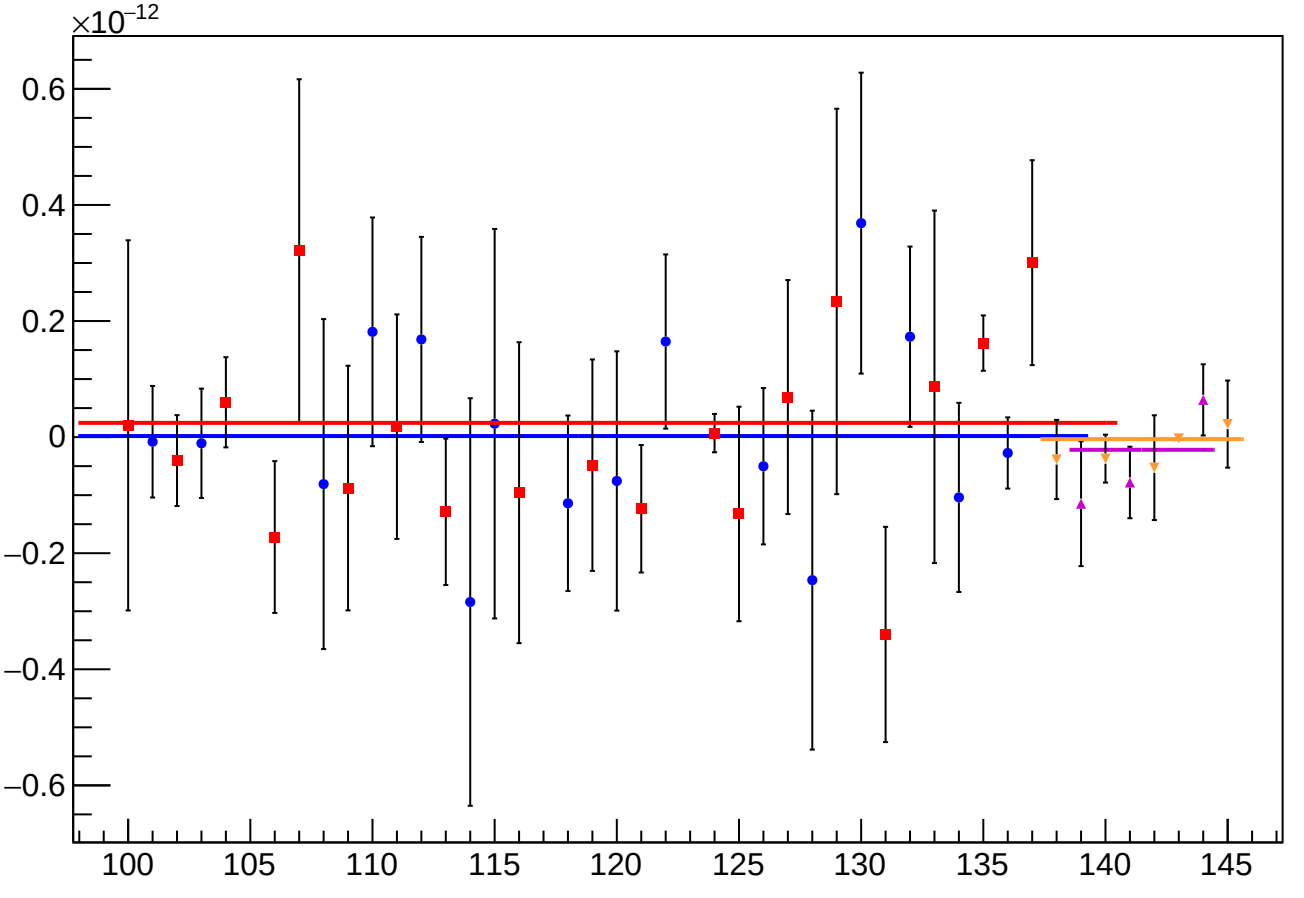
Left: 306.513+/-0.098 $\chi^2$/NDF: 2382408.6/7

Right: 114.826+/-0.024 $\chi^2$/NDF: 3922259.7/34

In: 127.394+/-0.033 $\chi^2$/NDF:3716926.2/18

Out: 123.515+/-0.032 $\chi^2$/NDF:6204321.2/23

All: 125.426+/-0.023 $\chi^2$/NDF: 9928344.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 24.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.5/2

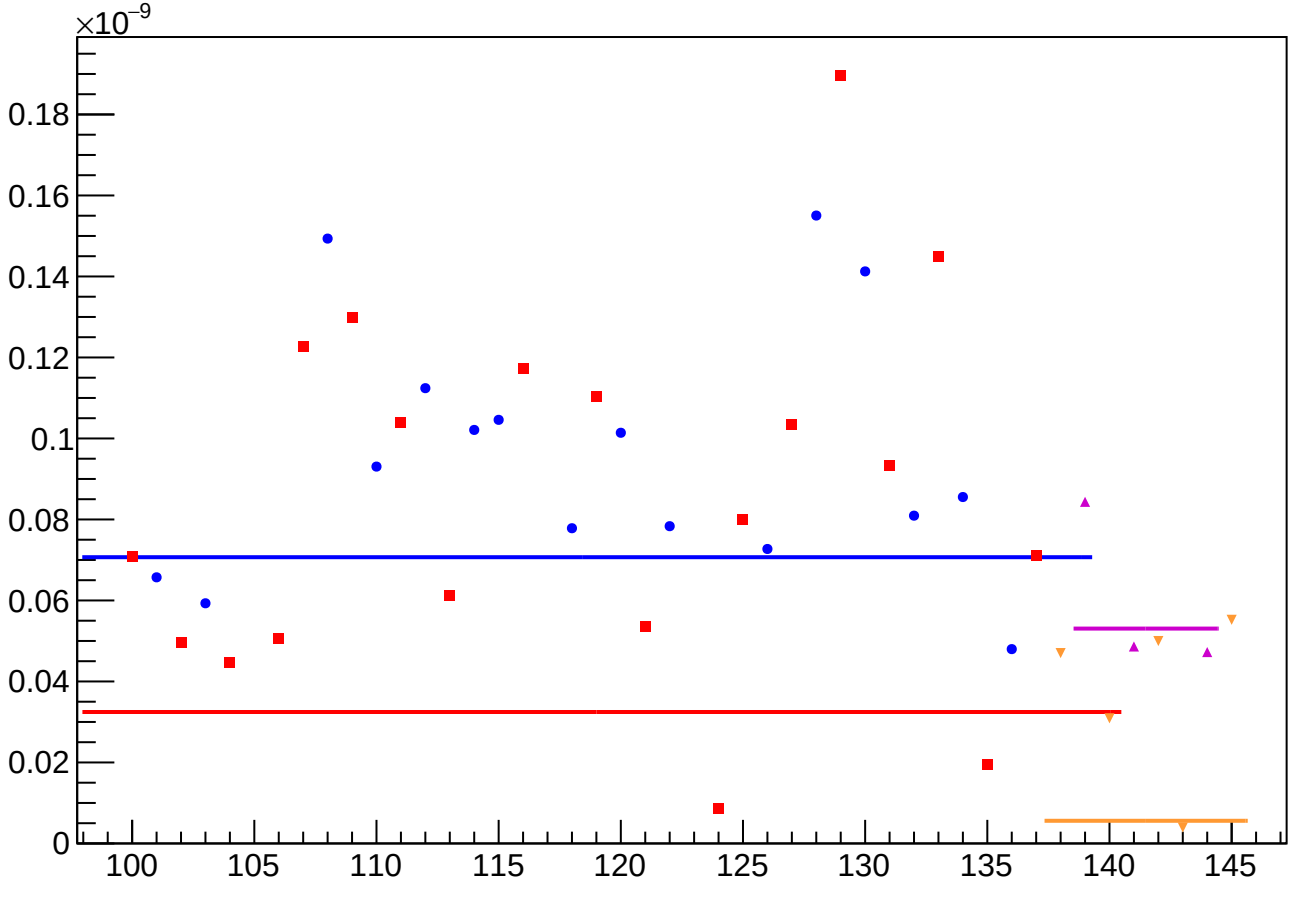
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.1/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:12.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:27.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 40.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1023708.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2974191.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4449161.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:197601.2/2

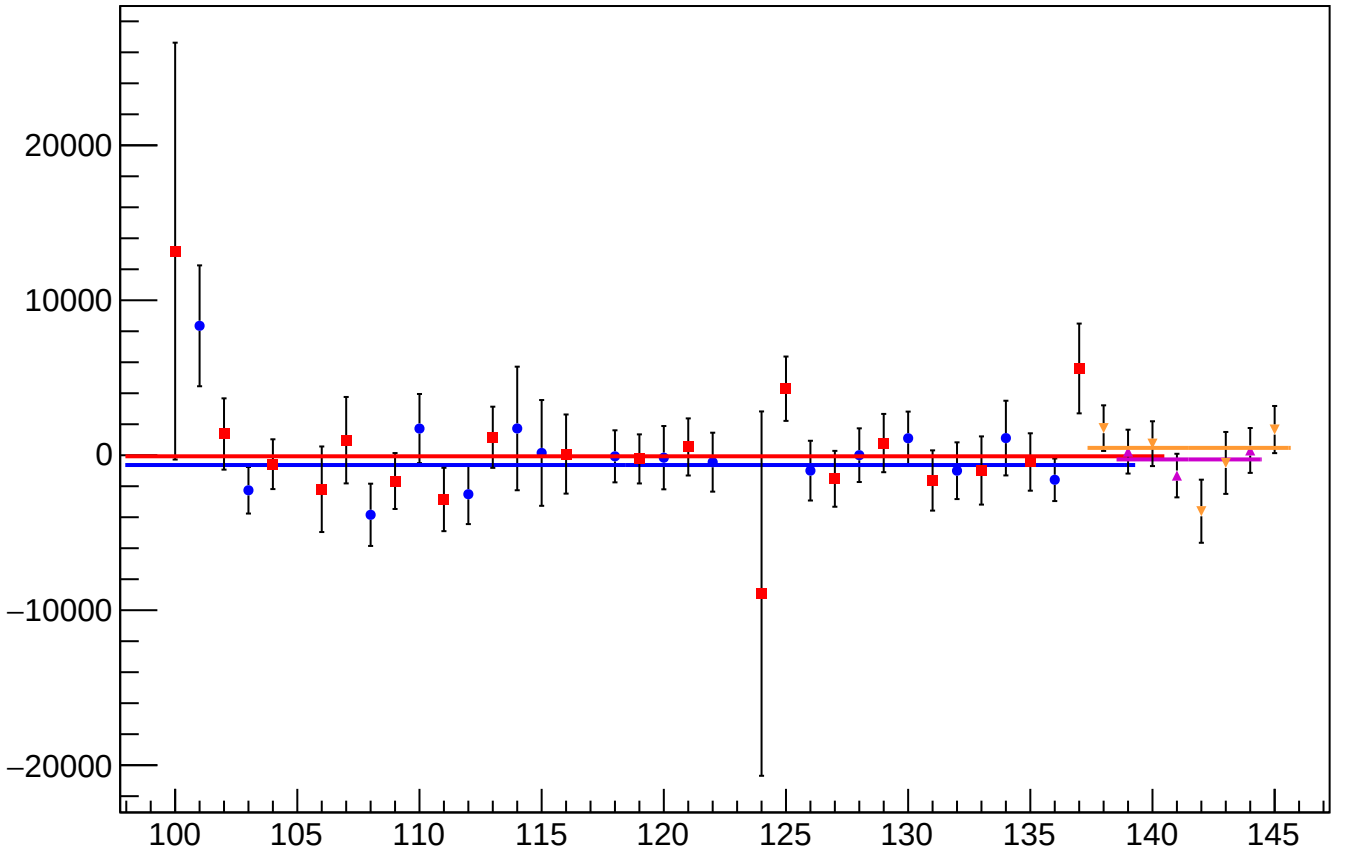
Left: 0.000+/-0.000 $\chi^2$/NDF: 5876971.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 7239318.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:1442443.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:10255805.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 20189859.8/42




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 474.644+/-732.595 $\chi^2$/NDF:5.7/4

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -269.681+/-821.347 $\chi^2$/NDF:0.8/2

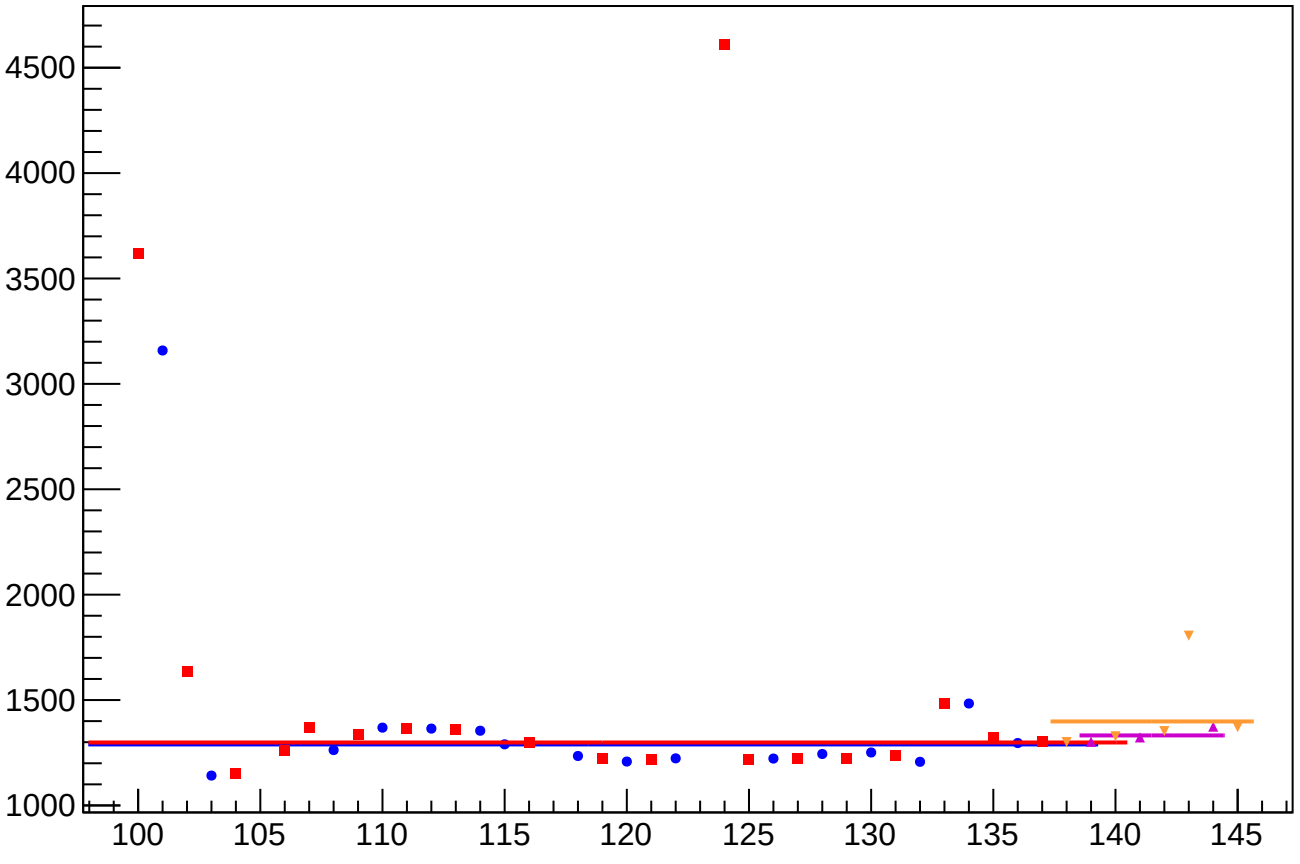
Left: 144.855+/-546.719 $\chi^2$/NDF: 6.9/7

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -536.571+/-419.957 $\chi^2$/NDF:14.9/18

Out: 98.914+/-406.004 $\chi^2$/NDF:21.9/23

All: -208.096+/-291.896 $\chi^2$/NDF: 38.0/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1332.130+/-0.581 $\chi^2$/NDF:2652.6/2

Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

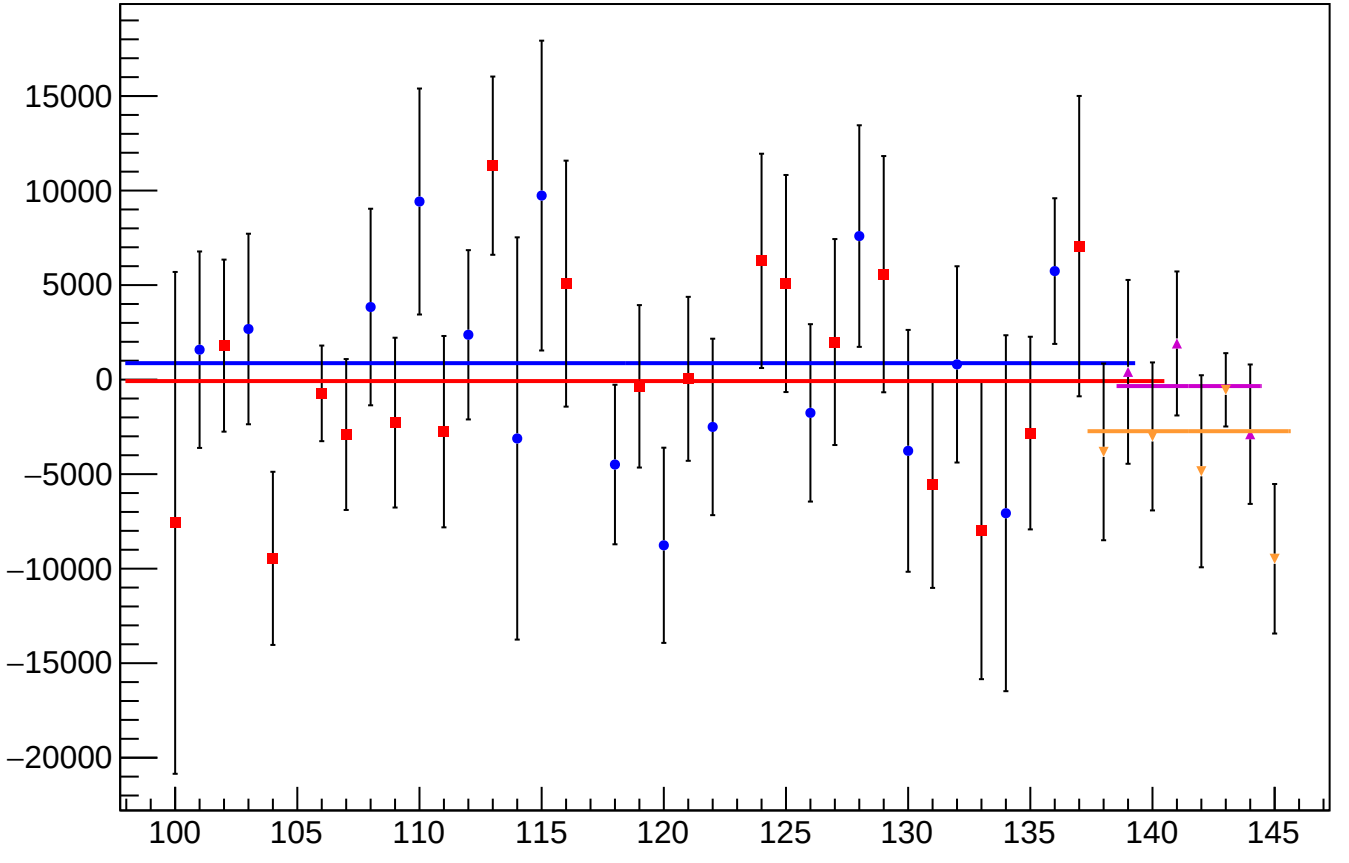
Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521313.3/18

Out: 1329.195+/-0.287 $\chi^2$/NDF:443340.7/23

All: 1315.416+/-0.206 $\chi^2$/NDF: 969448.6/42

asym_atl_dd_atr_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: 870.295+/-1325.278 $\chi^2$/NDF: 14.0/15

Left Out: -2728.713+/-1444.041 $\chi^2$/NDF:4.4/4

Right Out: -77.323+/-1111.074 $\chi^2$/NDF: 18.4/18

Left In: -341.754+/-2326.506 $\chi^2$/NDF:0.9/2

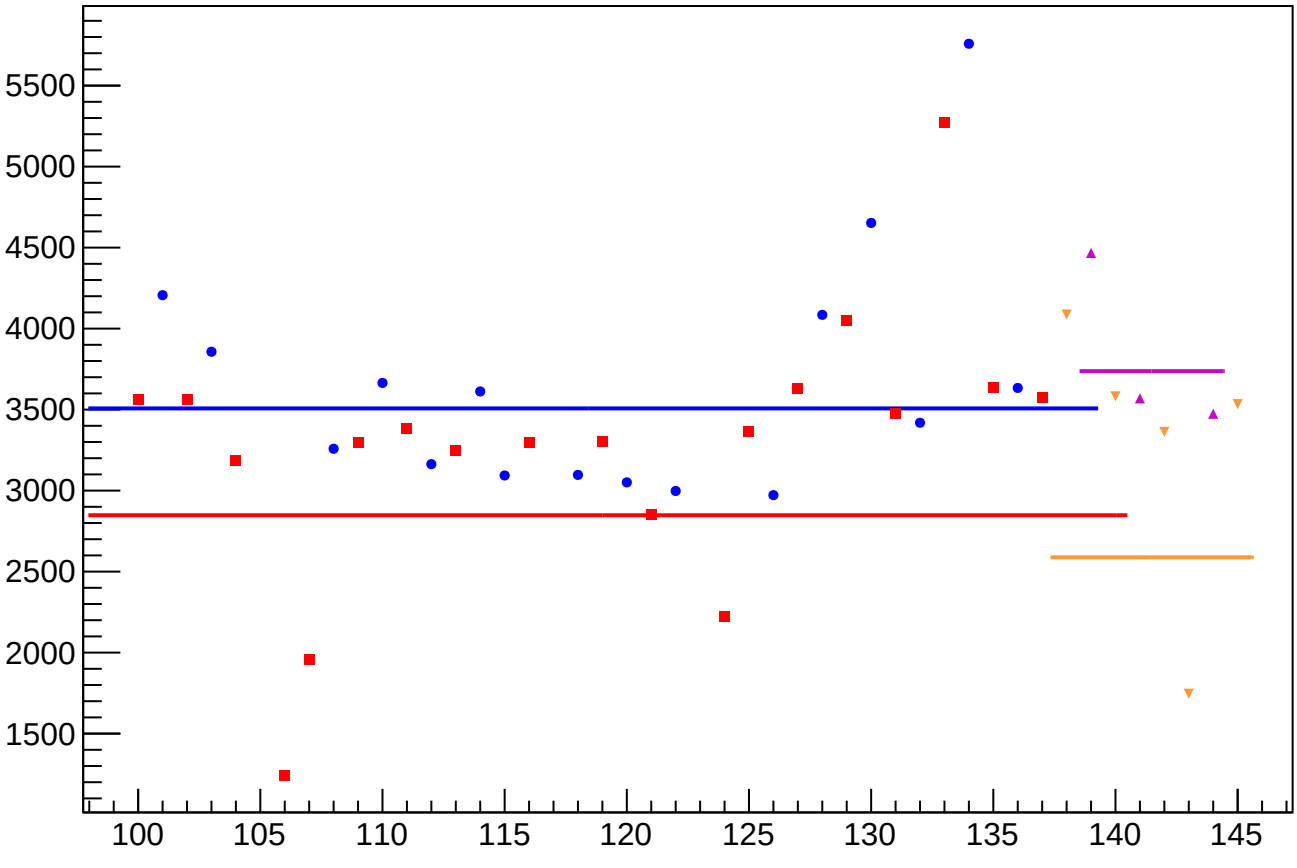
Left: -2064.871+/-1226.914 $\chi^2$/NDF: 6.0/7

Right: 313.810+/-851.438 $\chi^2$/NDF: 32.7/34

In: 573.350+/-1151.548 $\chi^2$/NDF:15.1/18

Out: -1063.275+/-880.583 $\chi^2$/NDF:24.9/23

All: -459.378+/-699.502 $\chi^2$/NDF: 41.3/42




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 2588.366+/-1.021 $\chi^2$/NDF:872391.5/4

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 3737.276+/-1.645 $\chi^2$/NDF:59109.6/2

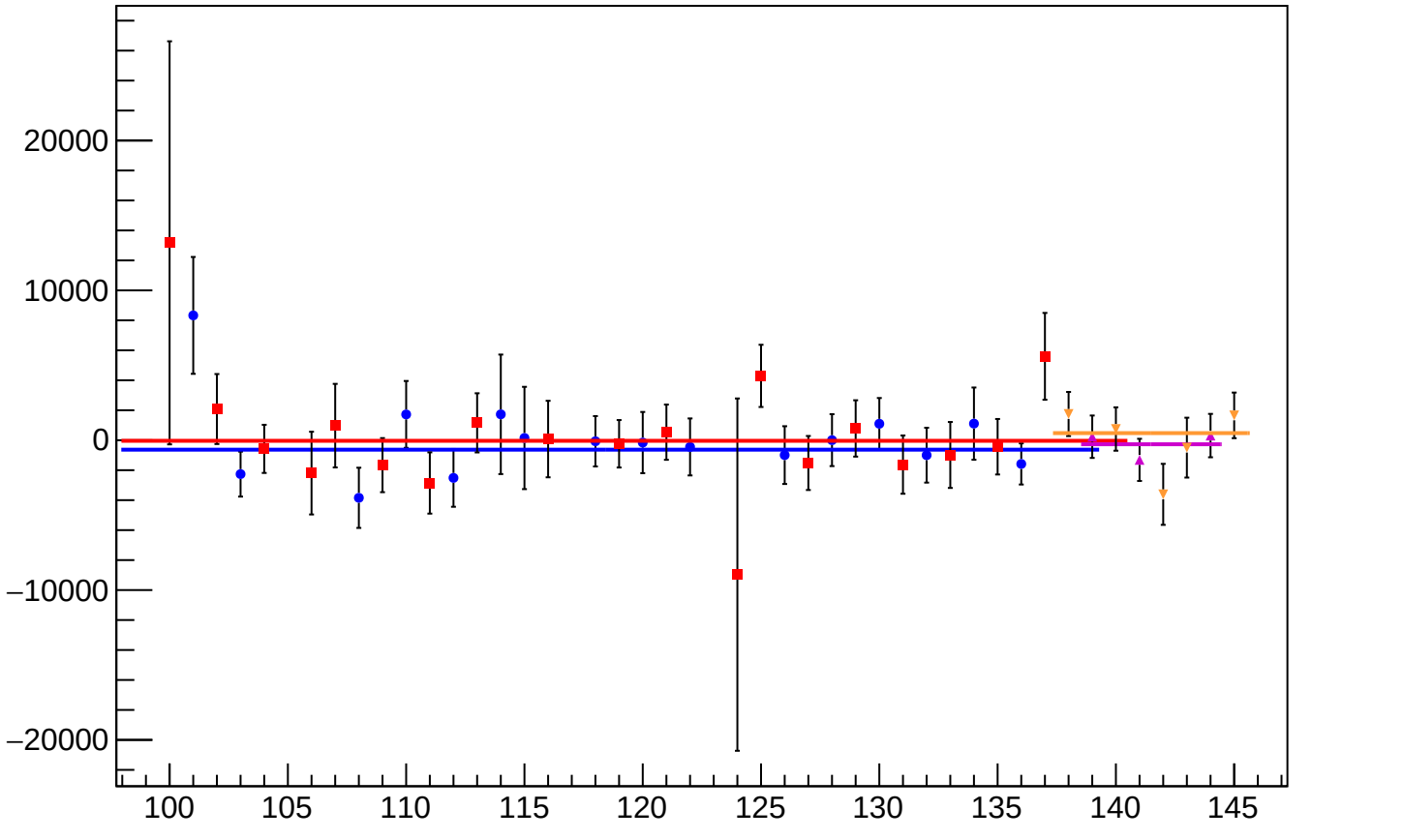
Left: 2907.892+/-0.868 $\chi^2$/NDF: 1283599.4/7

Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3563.716+/-0.814 $\chi^2$/NDF:427831.3/18

Out: 2751.347+/-0.623 $\chi^2$/NDF:2412324.4/23

All: 3051.102+/-0.495 $\chi^2$/NDF: 3468228.2/42




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 474.679+/-732.595 $\chi^2$/NDF:5.7/4

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -269.641+/-821.347 $\chi^2$/NDF:0.8/2

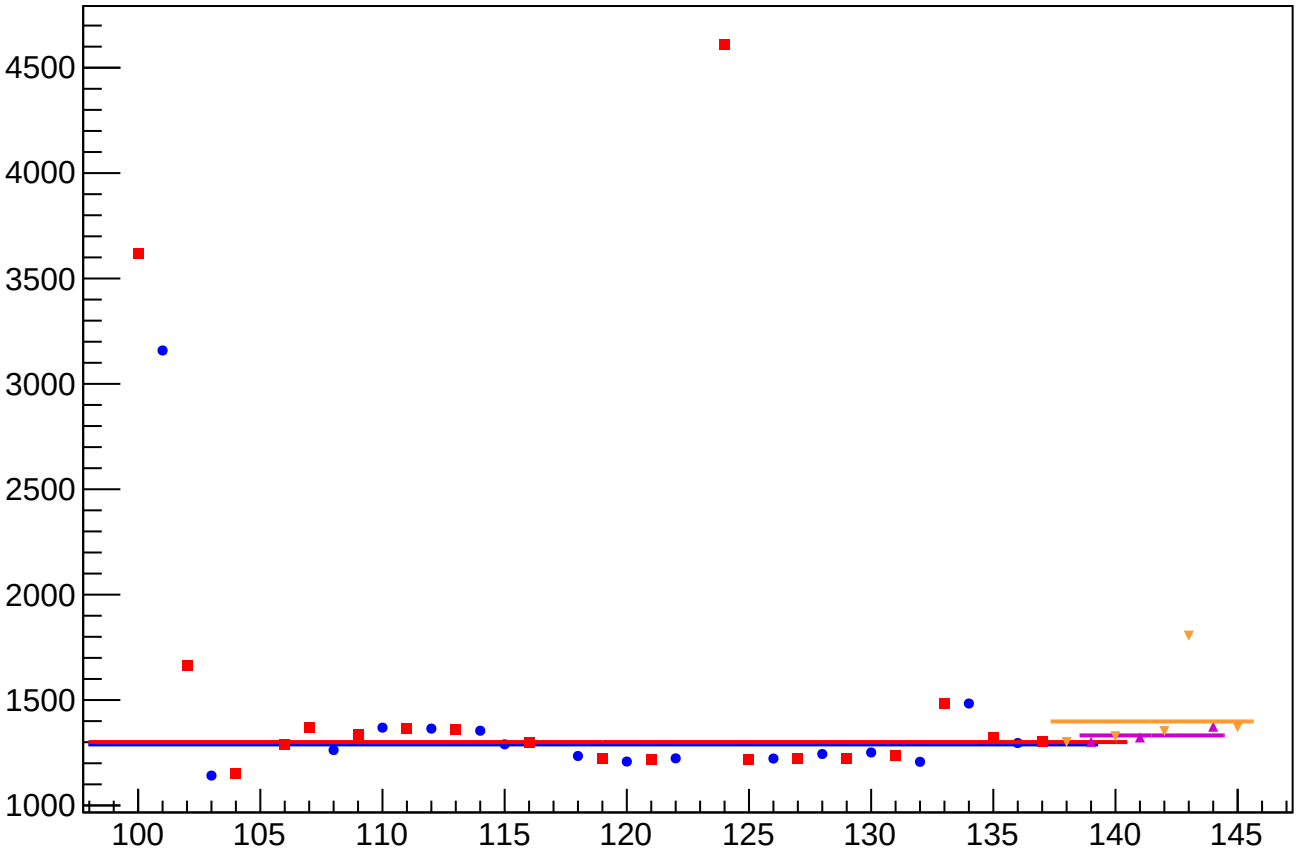
Left: 144.892+/-546.719 $\chi^2$/NDF: 6.9/7

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -536.845+/-419.957 $\chi^2$/NDF:14.9/18

Out: 119.176+/-406.191 $\chi^2$/NDF:22.3/23

All: -197.906+/-291.966 $\chi^2$/NDF: 38.4/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1332.131+/-0.581 $\chi^2$/NDF:2652.6/2

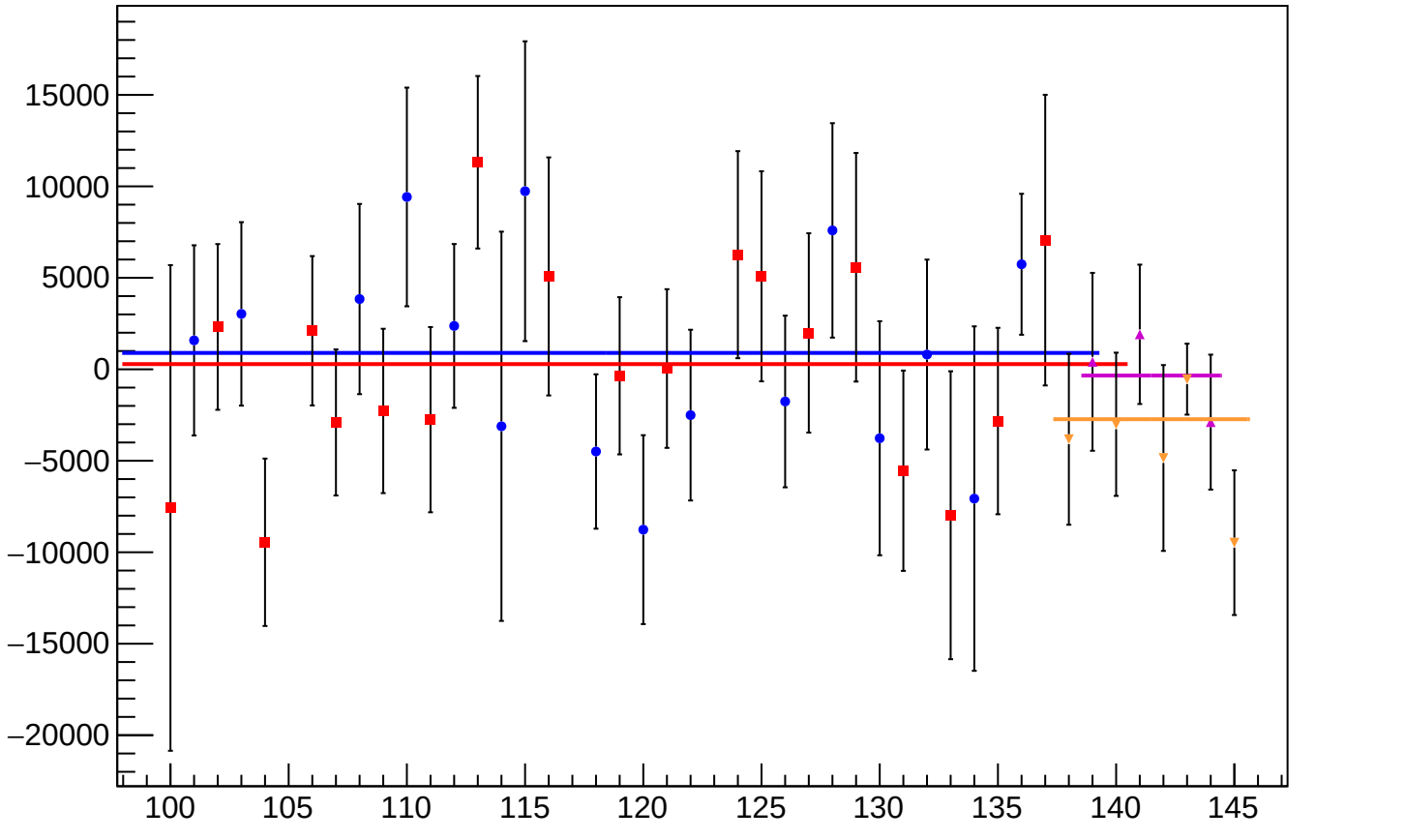
Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521314.8/18

Out: 1330.662+/-0.287 $\chi^2$/NDF:448815.4/23

All: 1316.161+/-0.206 $\chi^2$/NDF: 975424.8/42




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -2728.480+/-1444.035 $\chi^2$/NDF:4.4/4

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -341.762+/-2326.502 $\chi^2$/NDF:0.9/2

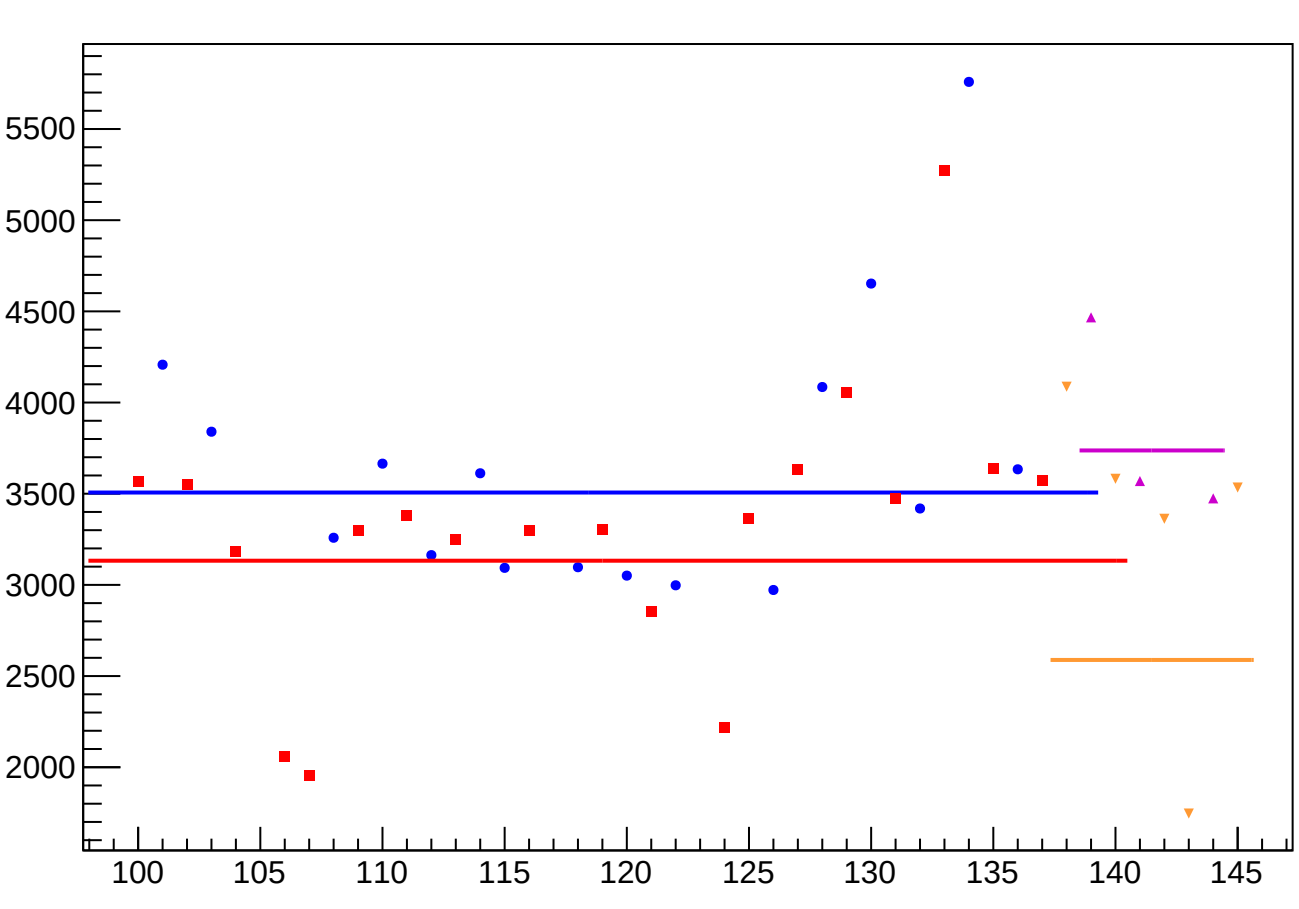
Left: -2064.706+/-1226.910 $\chi^2$/NDF: 6.0/7

Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 592.924+/-1151.249 $\chi^2$/NDF:15.1/18

Out: -926.064+/-915.200 $\chi^2$/NDF:25.6/23

All: -337.848+/-716.408 $\chi^2$/NDF: 41.9/42




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2588.353+/-1.021 $\chi^2$/NDF:872402.9/4

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3737.270+/-1.645 $\chi^2$/NDF:59108.5/2

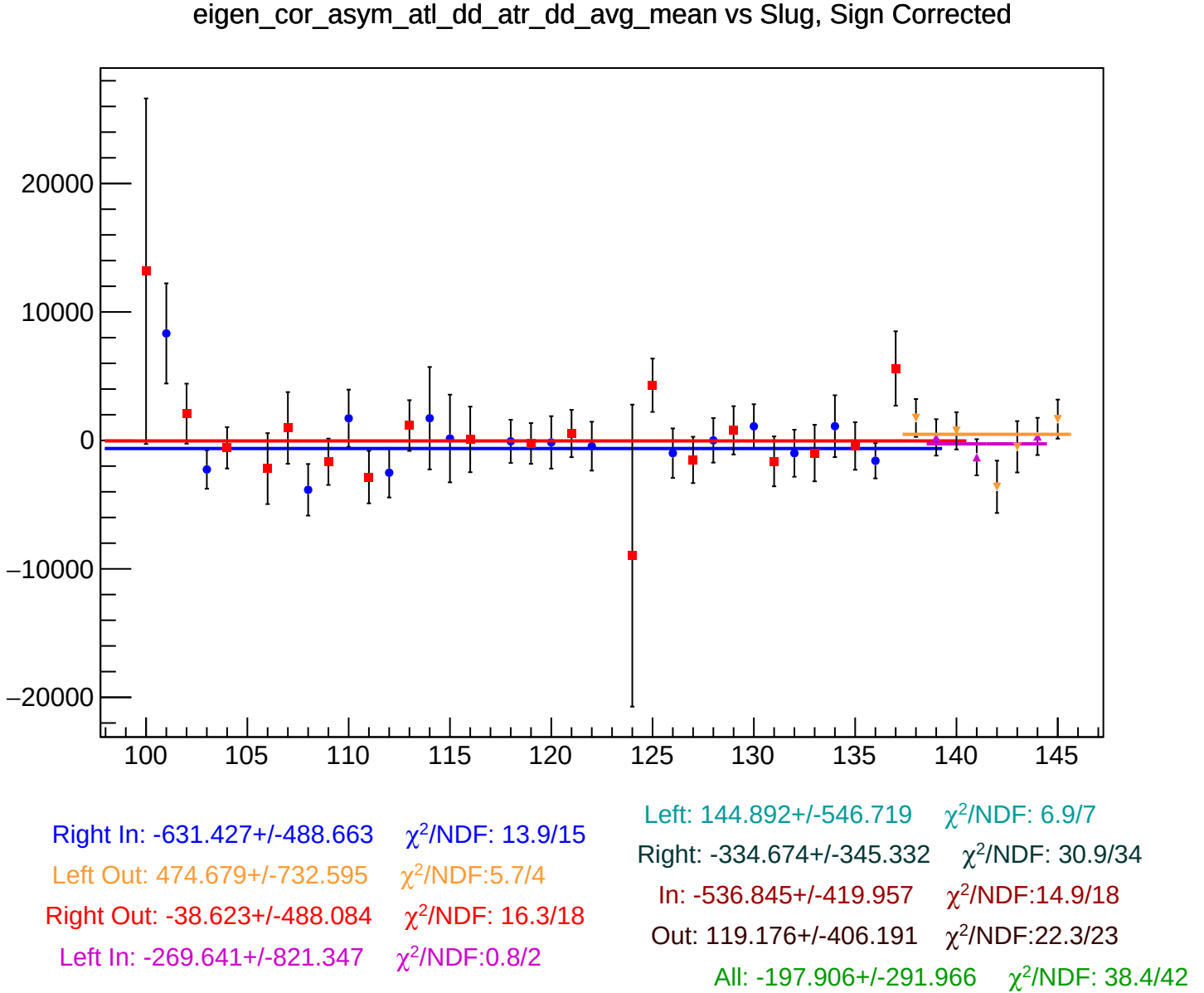
Left: 2907.880+/-0.868 $\chi^2$/NDF: 1283615.3/7

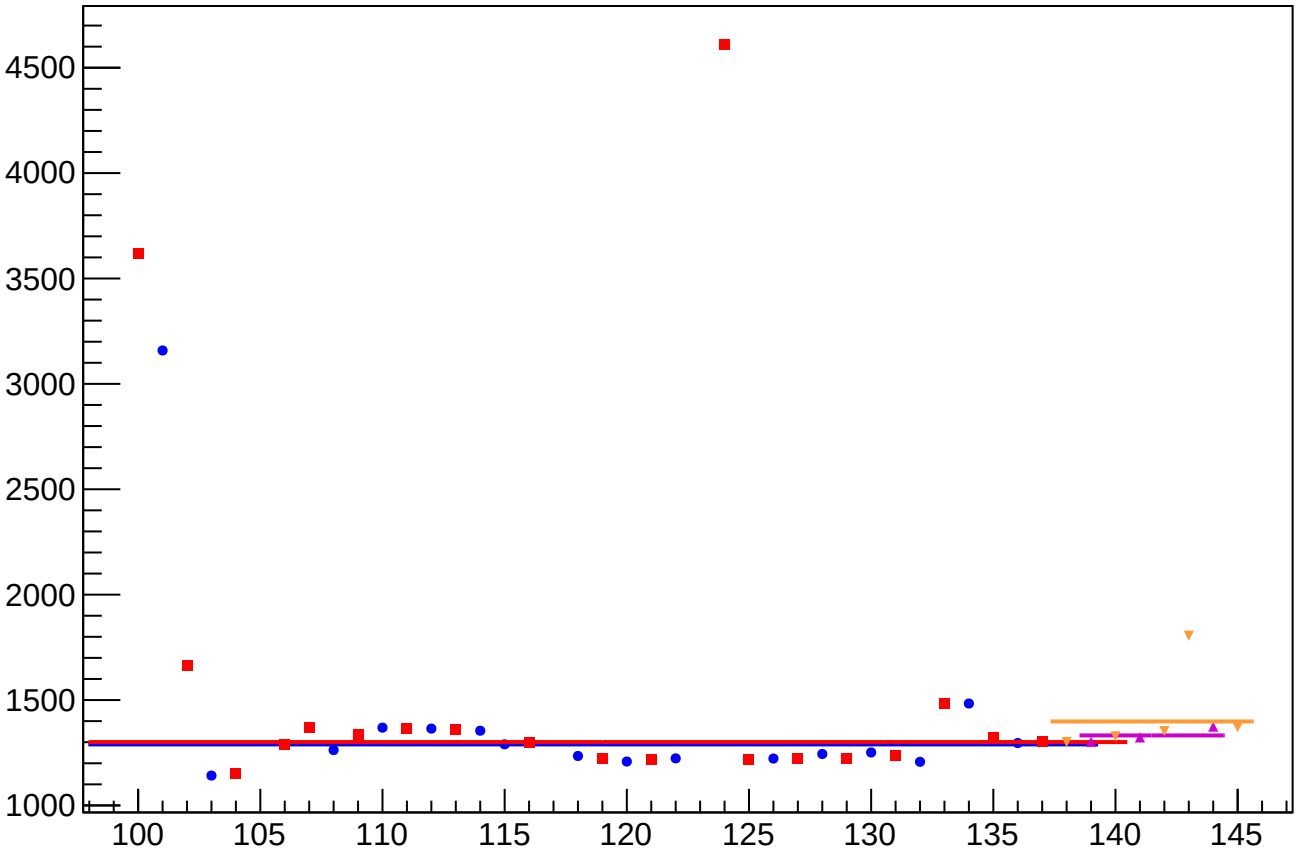
Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3562.996+/-0.814 $\chi^2$/NDF:427207.8/18

Out: 2913.981+/-0.647 $\chi^2$/NDF:1691987.4/23

All: 3165.307+/-0.507 $\chi^2$/NDF: 2508679.9/42


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -631.427+/-488.663 χ²/NDF: 13.9/15
Left Out: 474.679+/-732.595 χ²/NDF:5.7/4
Right Out: -38.623+/-488.084 χ²/NDF: 16.3/18
Left In: -269.641+/-821.347 χ²/NDF:0.8/2
Left: 144.892+/-546.719 χ²/NDF: 6.9/7
Right: -334.674+/-345.332 χ²/NDF: 30.9/34
In: -536.845+/-419.957 χ²/NDF:14.9/18
Out: 119.176+/-406.191 χ²/NDF:22.3/23
All: -197.906+/-291.966 χ²/NDF: 38.4/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1332.131+/-0.581 $\chi^2$/NDF:2652.6/2

Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

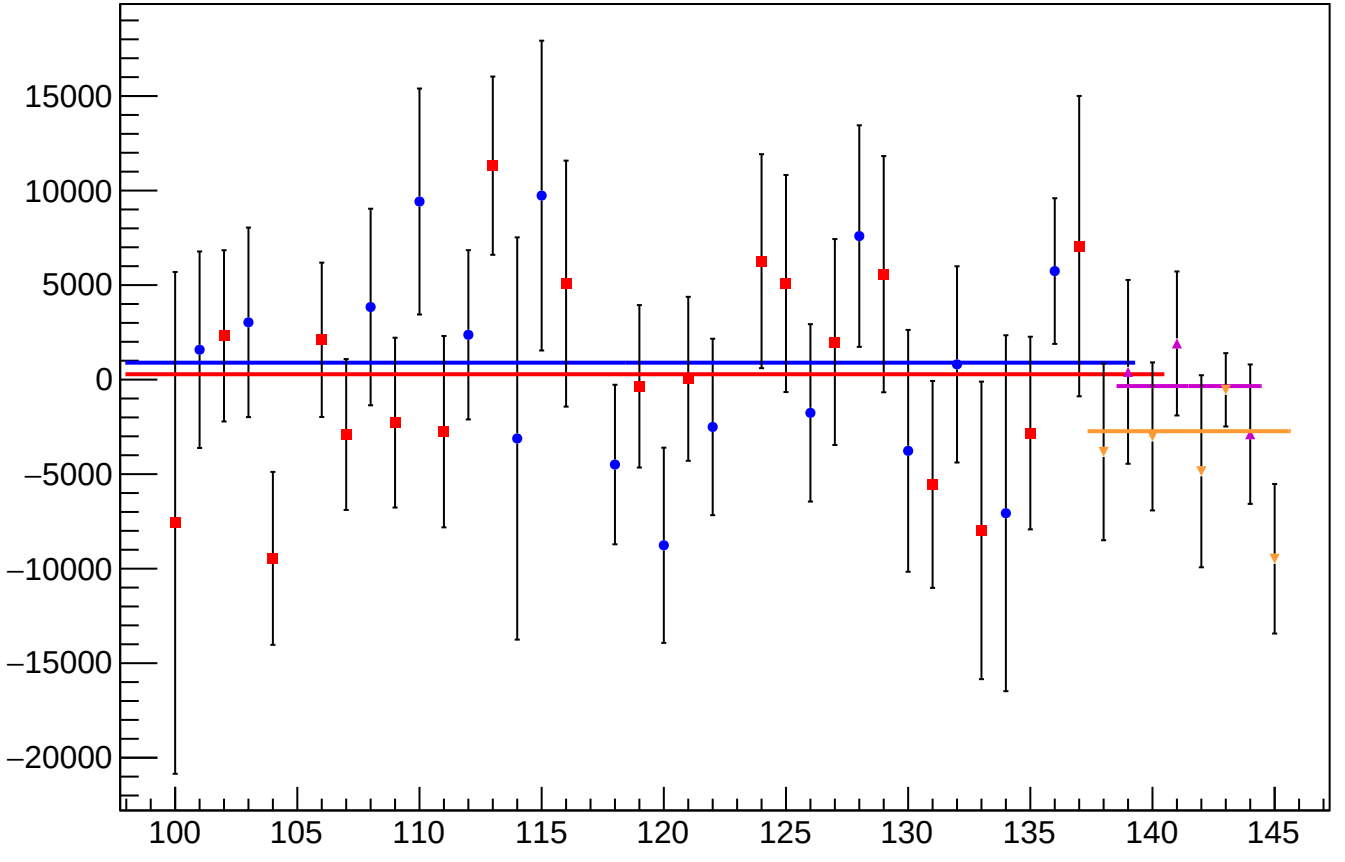
Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521314.8/18

Out: 1330.662+/-0.287 $\chi^2$/NDF:448815.4/23

All: 1316.161+/-0.206 $\chi^2$/NDF: 975424.8/42

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 896.017+/-1324.823 $\chi^2$/NDF: 14.1/15

Left Out: -2728.480+/-1444.035 $\chi^2$/NDF:4.4/4

Right Out: 283.963+/-1183.171 $\chi^2$/NDF: 18.6/18

Left In: -341.762+/-2326.502 $\chi^2$/NDF:0.9/2

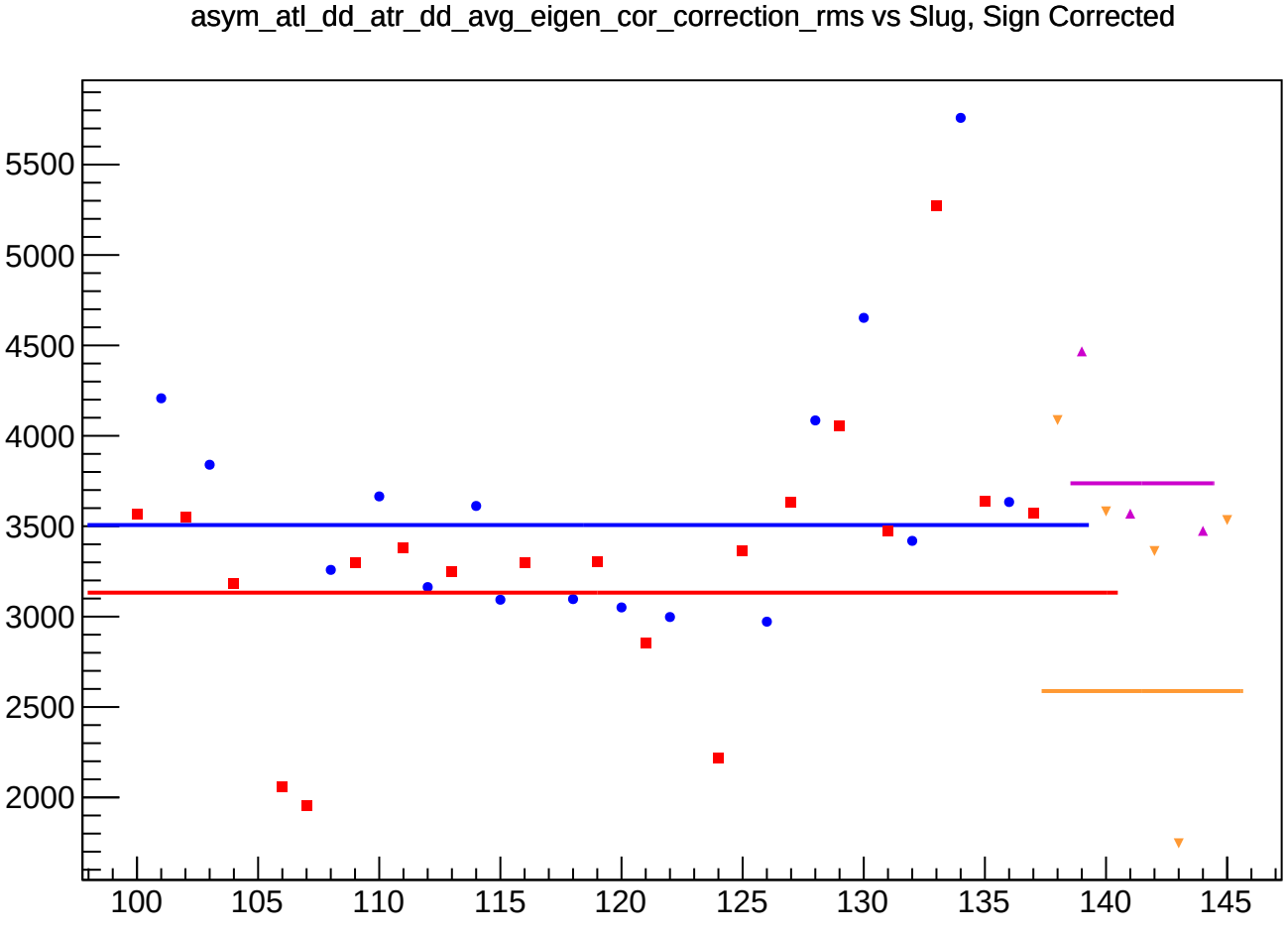
Left: -2064.706+/-1226.910 $\chi^2$/NDF: 6.0/7

Right: 555.531+/-882.475 $\chi^2$/NDF: 32.8/34

In: 592.924+/-1151.249 $\chi^2$/NDF:15.1/18

Out: -926.064+/-915.200 $\chi^2$/NDF:25.6/23

All: -337.848+/-716.408 $\chi^2$/NDF: 41.9/42




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2588.353+/-1.021 $\chi^2$/NDF:872402.9/4

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3737.270+/-1.645 $\chi^2$/NDF:59108.5/2

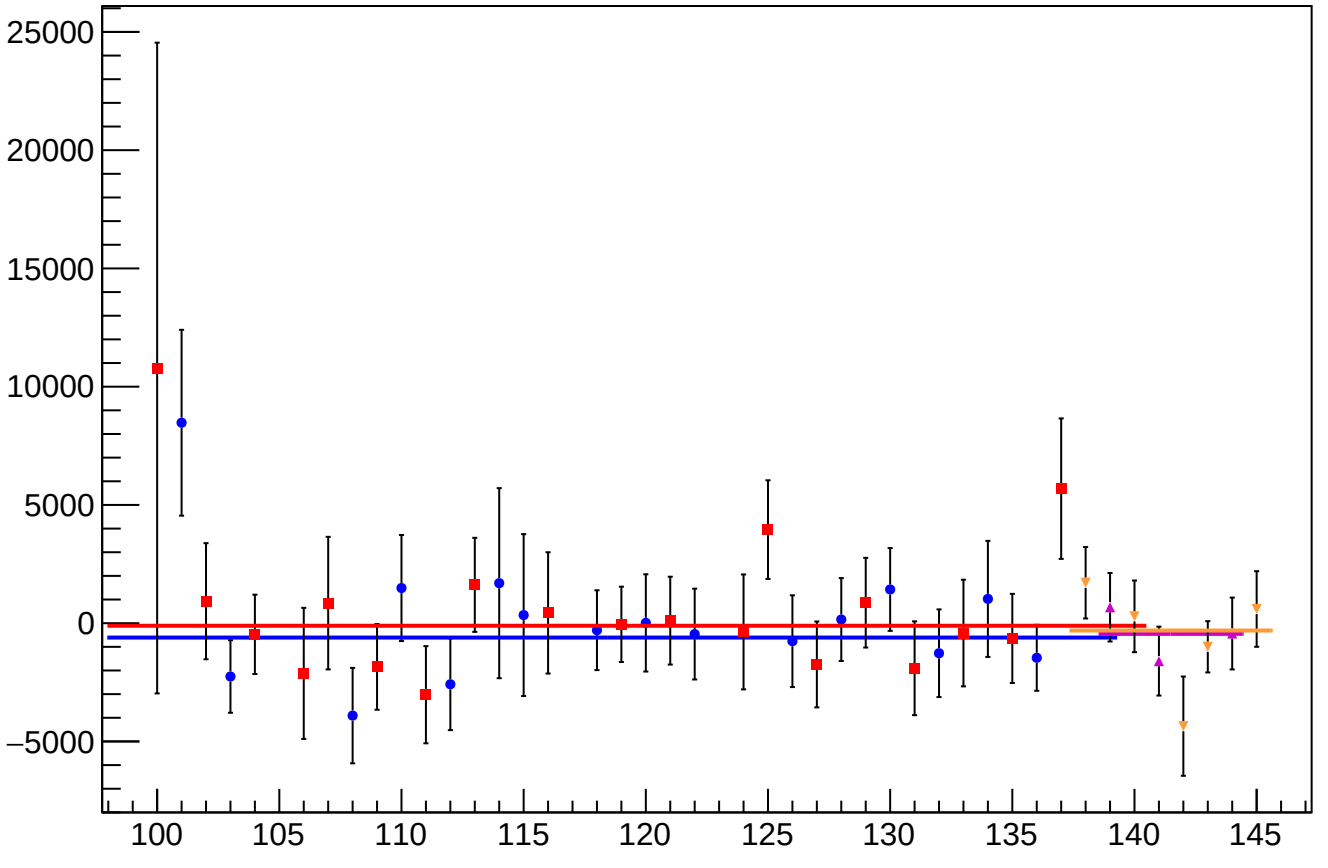
Left: 2907.880+/-0.868 $\chi^2$/NDF: 1283615.3/7

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3562.996+/-0.814 $\chi^2$/NDF:427207.8/18

Out: 2913.981+/-0.647 $\chi^2$/NDF:1691987.4/23

All: 3165.307+/-0.507 $\chi^2$/NDF: 2508679.9/42




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: -310.693+/-653.179 $\chi^2$/NDF:6.4/4

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -451.534+/-850.702 $\chi^2$/NDF:1.2/2

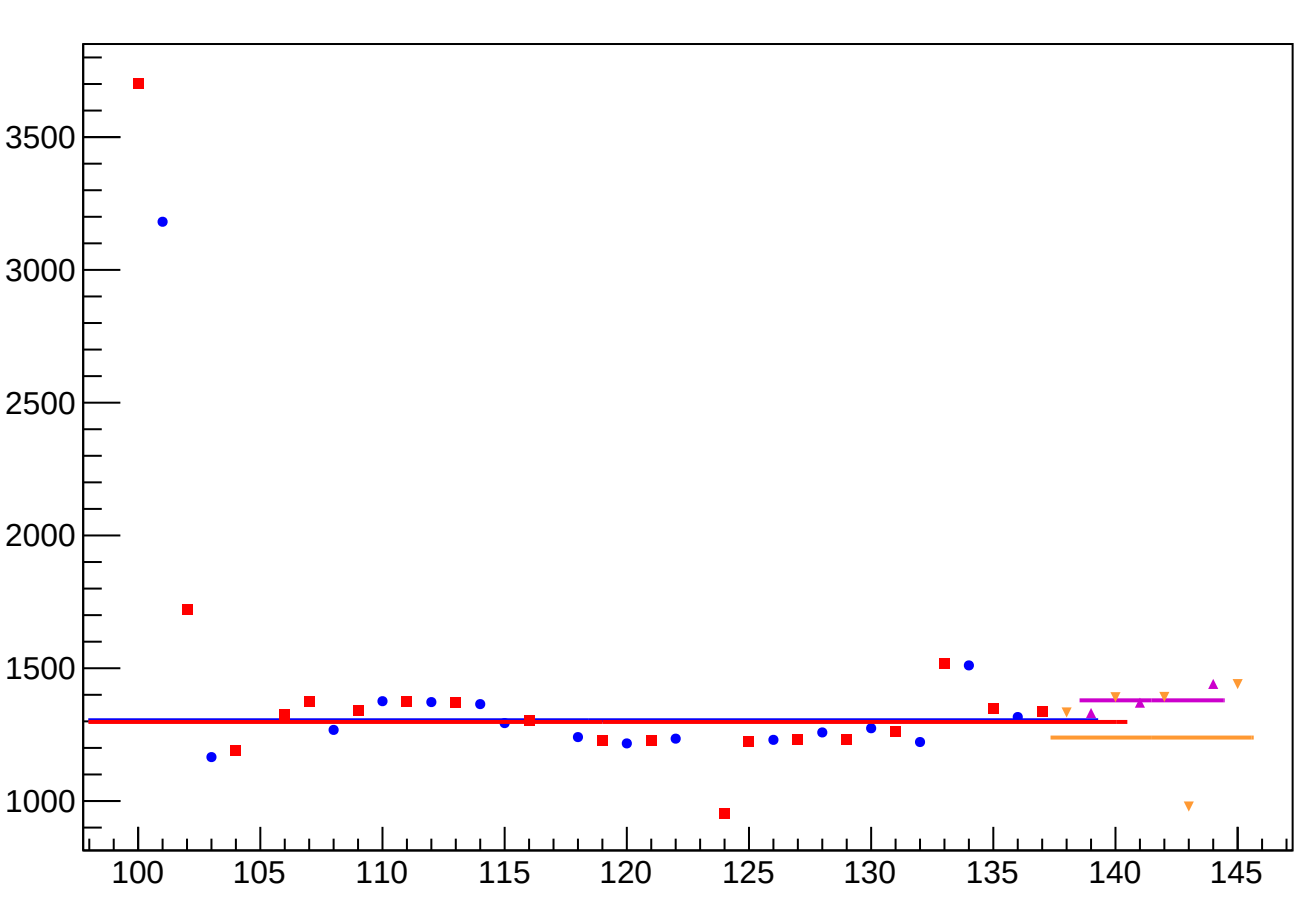
Left: -362.929+/-518.081 $\chi^2$/NDF: 7.6/7

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -568.395+/-427.314 $\chi^2$/NDF:15.4/18

Out: -180.537+/-389.679 $\chi^2$/NDF:21.3/23

All: -356.637+/-287.932 $\chi^2$/NDF: 37.1/42




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1238.998+/-0.462 $\chi^2$/NDF:185091.7/4

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1379.156+/-0.602 $\chi^2$/NDF:5549.6/2

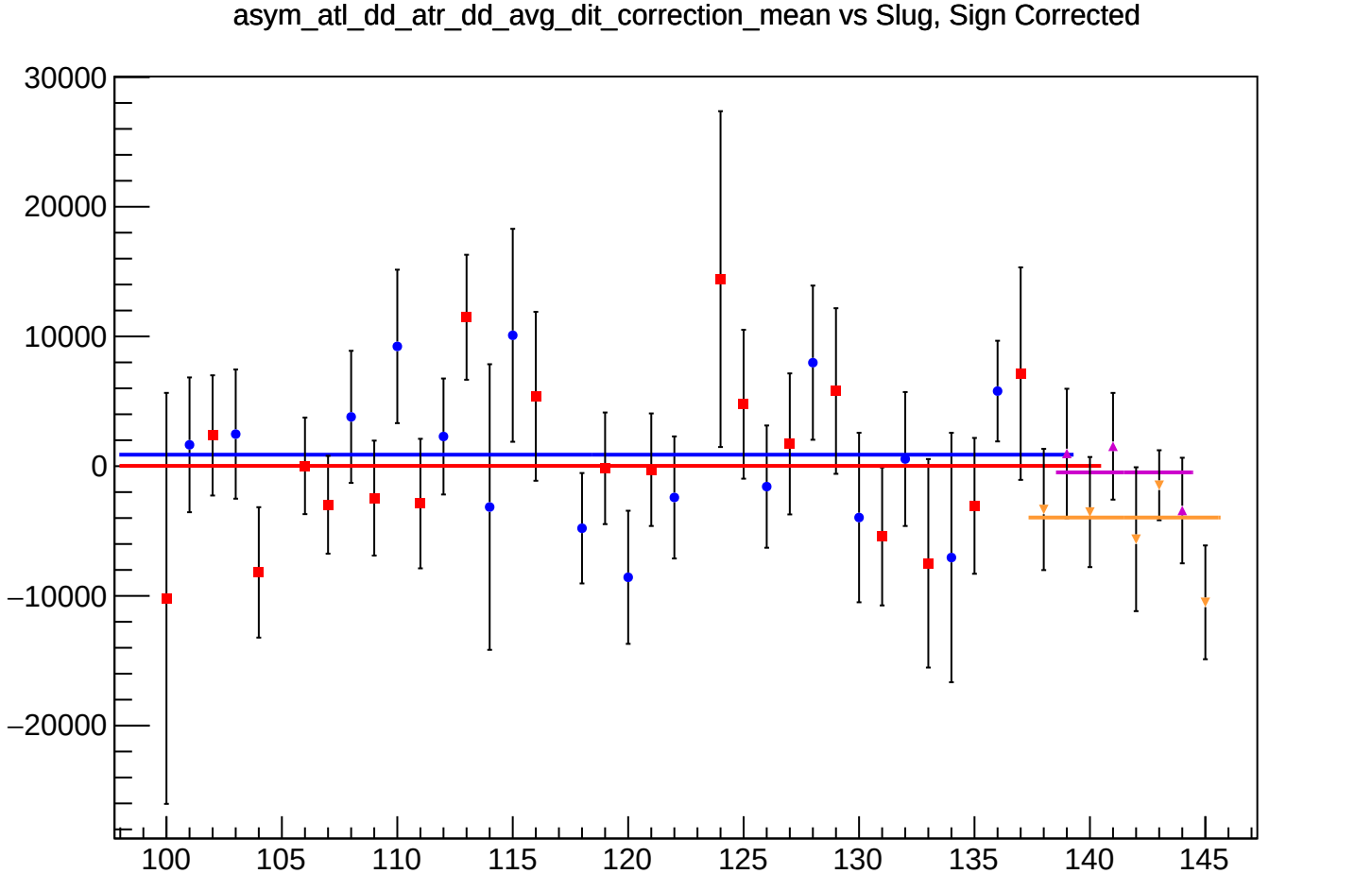
Left: 1290.981+/-0.366 $\chi^2$/NDF: 224795.1/7

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1323.039+/-0.302 $\chi^2$/NDF:527778.7/18

Out: 1276.889+/-0.275 $\chi^2$/NDF:408632.3/23

All: 1297.832+/-0.204 $\chi^2$/NDF: 949153.2/42




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -3960.020+/-1758.978 $\chi^2$/NDF:3.2/4

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -479.573+/-2502.432 $\chi^2$/NDF:0.8/2

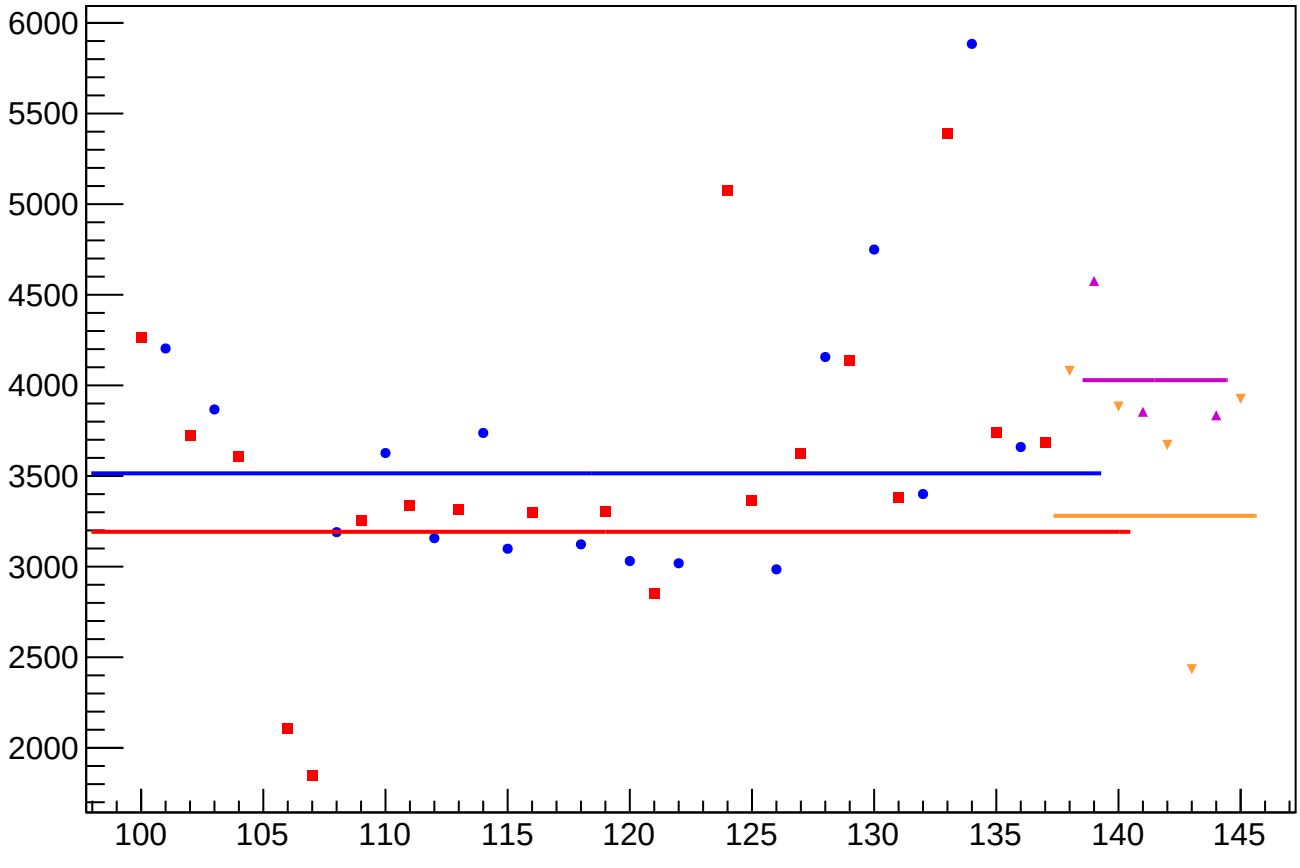
Left: -2809.066+/-1439.043 $\chi^2$/NDF: 5.3/7

Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 584.624+/-1172.638 $\chi^2$/NDF:15.2/18

Out: -1243.611+/-991.298 $\chi^2$/NDF:23.5/23

All: -481.633+/-757.041 $\chi^2$/NDF: 40.1/42




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 3280.329+/-1.244 $\chi^2$/NDF:349008.8/4

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 4028.899+/-1.769 $\chi^2$/NDF:32241.1/2

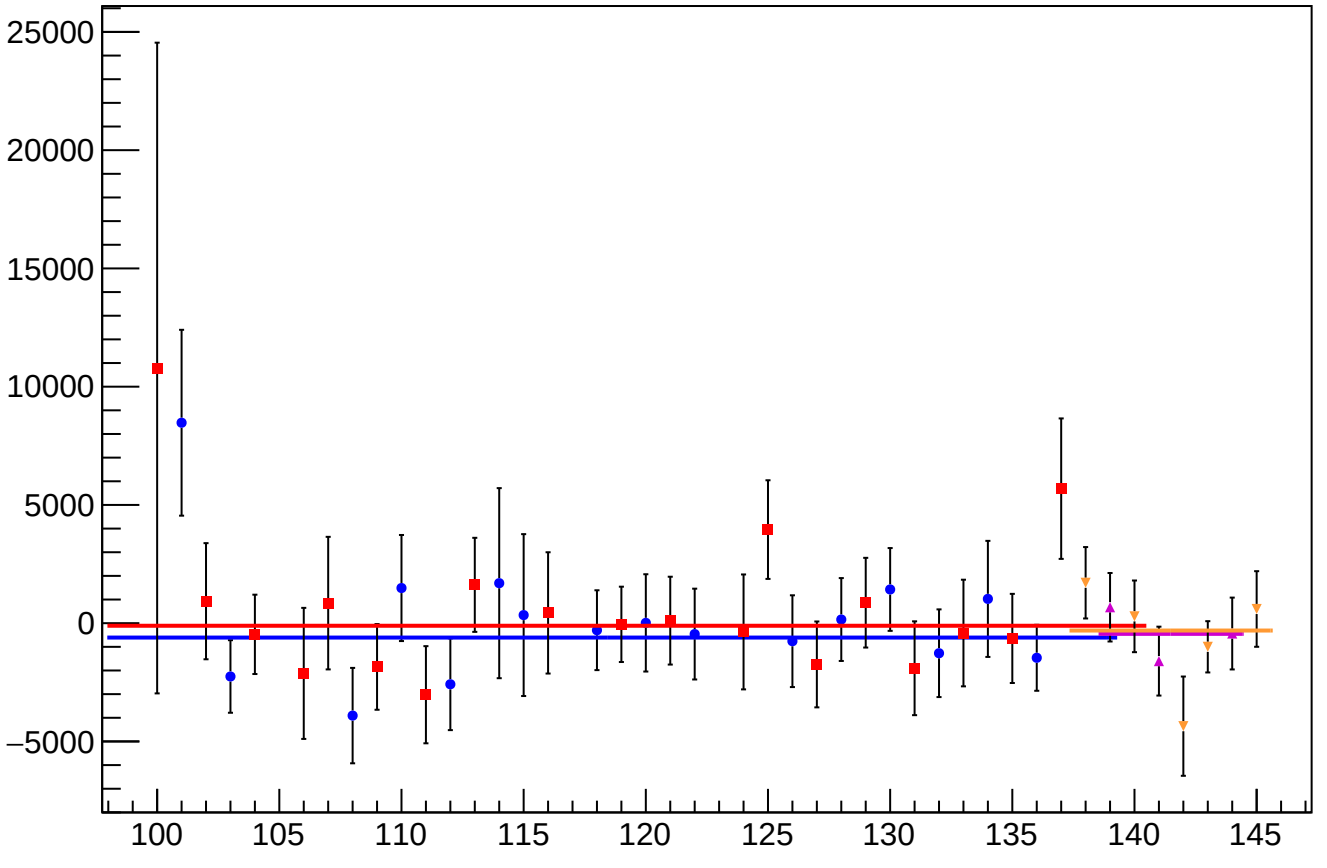
Left: 3527.875+/-1.018 $\chi^2$/NDF: 501033.4/7

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 3627.646+/-0.829 $\chi^2$/NDF:473209.3/18

Out: 3220.193+/-0.701 $\chi^2$/NDF:1124930.2/23

All: 3390.013+/-0.535 $\chi^2$/NDF: 1738967.3/42




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: -310.700+/-653.180 $\chi^2$/NDF:6.4/4

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -451.531+/-850.703 $\chi^2$/NDF:1.2/2

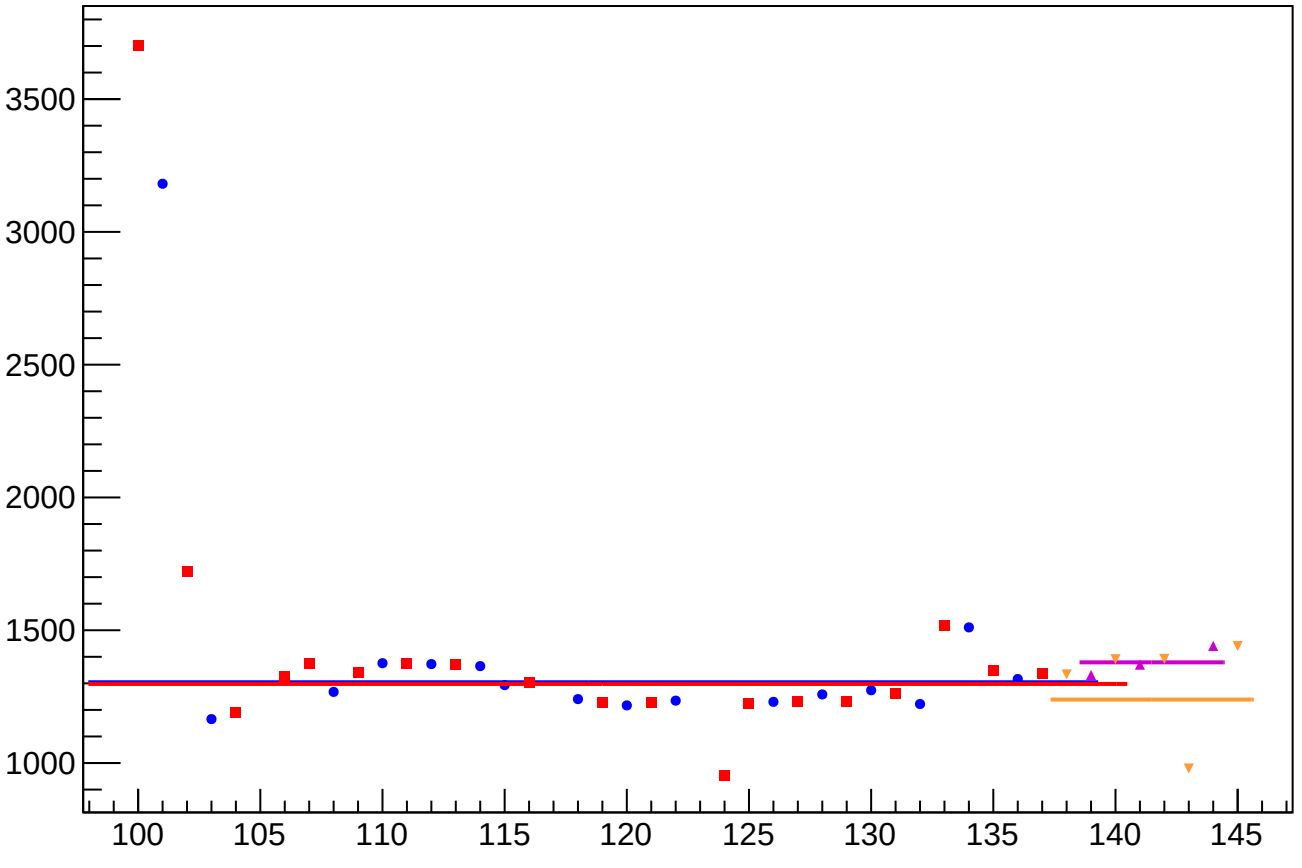
Left: -362.932+/-518.081 $\chi^2$/NDF: 7.6/7

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -568.397+/-427.314 $\chi^2$/NDF:15.4/18

Out: -180.543+/-389.679 $\chi^2$/NDF:21.3/23

All: -356.642+/-287.932 $\chi^2$/NDF: 37.1/42




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1238.999+/-0.462 $\chi^2$/NDF:185092.0/4

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1379.157+/-0.602 $\chi^2$/NDF:5549.7/2

Left: 1290.982+/-0.366 $\chi^2$/NDF: 224795.5/7

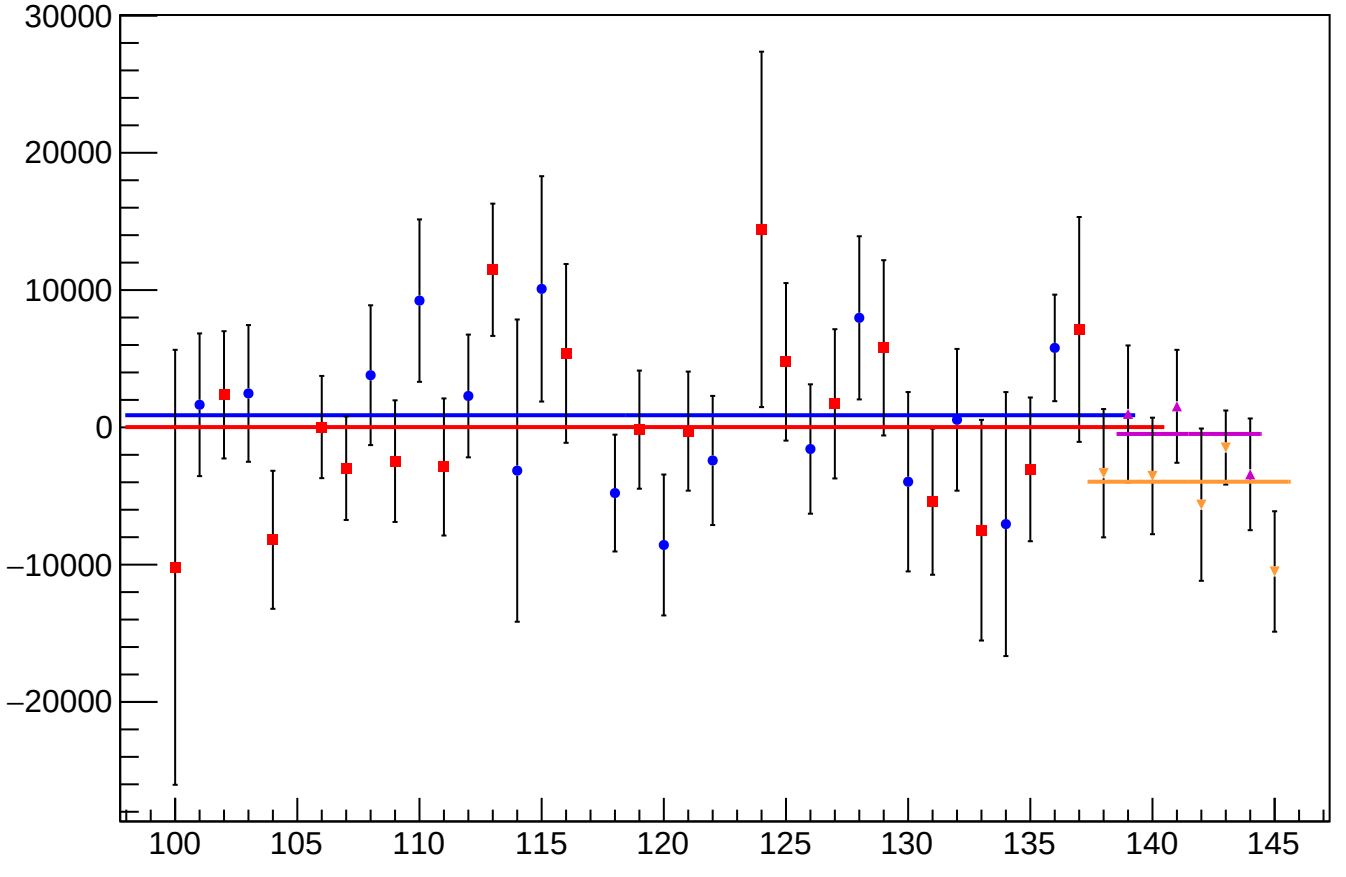
Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

In: 1323.040+/-0.302 $\chi^2$/NDF:527779.3/18

Out: 1276.889+/-0.275 $\chi^2$/NDF:408632.3/23

All: 1297.832+/-0.204 $\chi^2$/NDF: 949153.6/42

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 884.047+/-1327.396 $\chi^2$/NDF: 14.1/15

Left Out: -3960.025+/-1758.981 $\chi^2$/NDF:3.2/4

Right Out: 20.677+/-1200.012 $\chi^2$/NDF: 16.8/18

Left In: -479.569+/-2502.436 $\chi^2$/NDF:0.8/2

Left: -2809.068+/-1439.045 $\chi^2$/NDF: 5.3/7

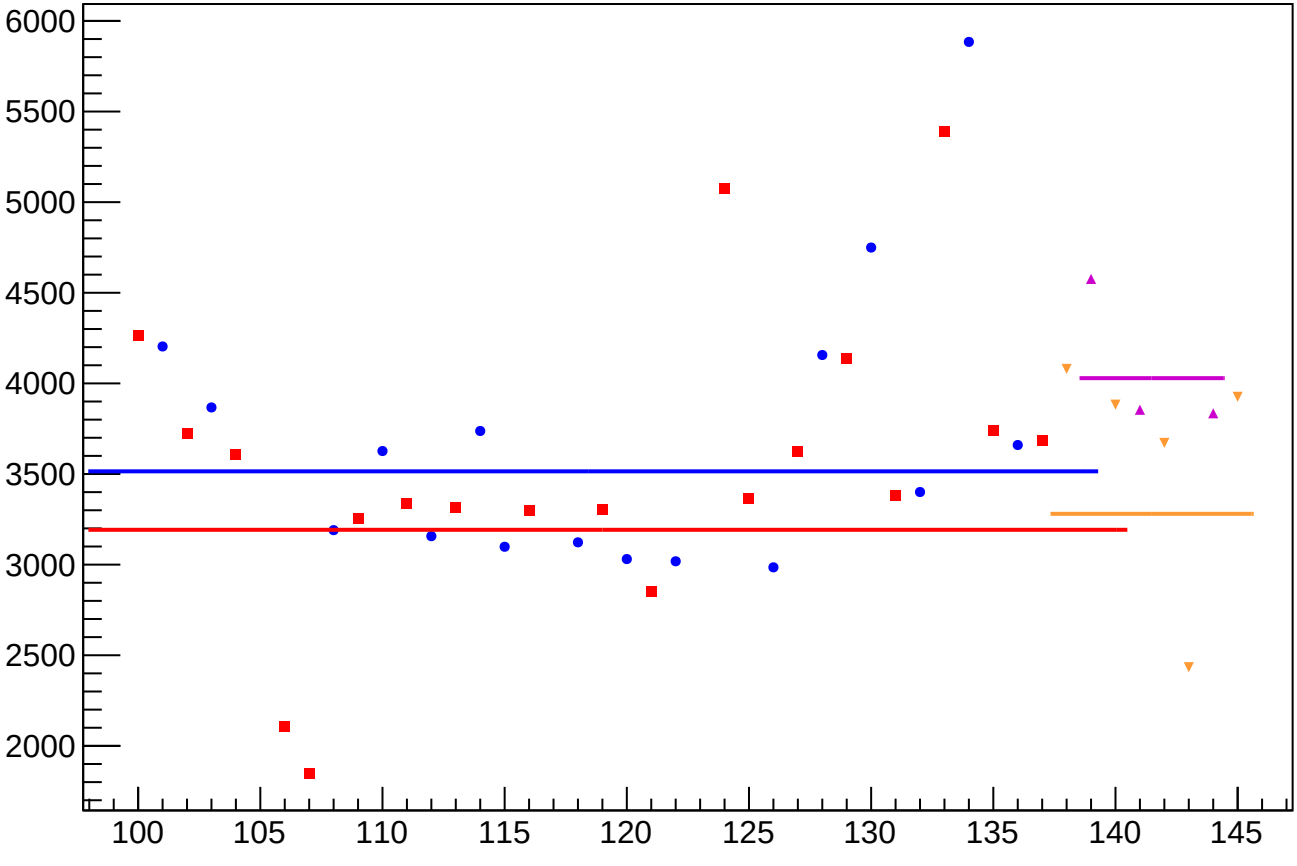
Right: 408.958+/-890.174 $\chi^2$/NDF: 31.2/34

In: 584.619+/-1172.637 $\chi^2$/NDF:15.2/18

Out: -1243.608+/-991.297 $\chi^2$/NDF:23.5/23

All: -481.633+/-757.040 $\chi^2$/NDF: 40.1/42

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 3280.335+/-1.244 $\chi^2$/NDF:349009.7/4

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 4028.906+/-1.769 $\chi^2$/NDF:32241.7/2

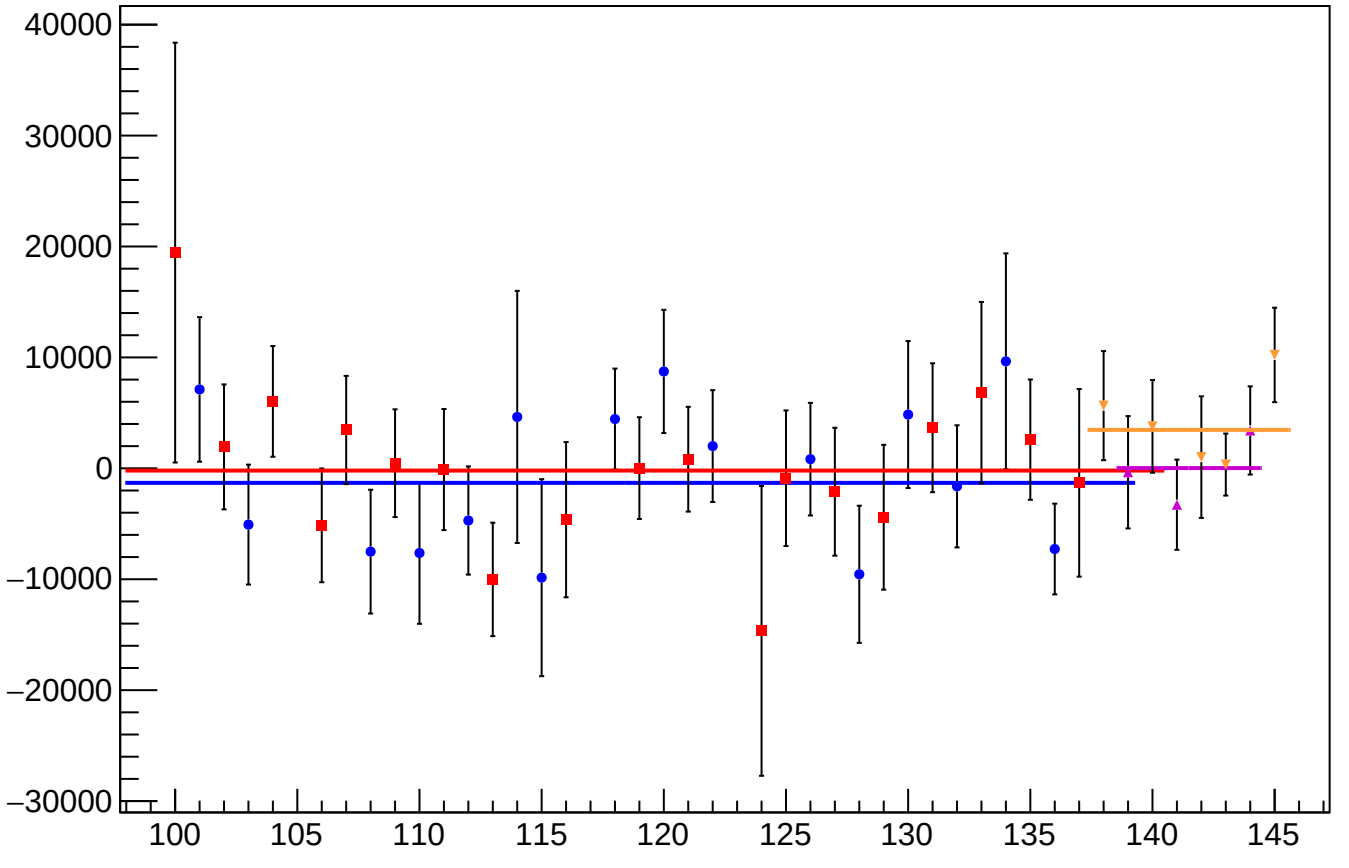
Left: 3527.881+/-1.018 $\chi^2$/NDF: 501034.8/7

Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 3627.640+/-0.829 $\chi^2$/NDF:473218.0/18

Out: 3220.189+/-0.701 $\chi^2$/NDF:1124934.4/23

All: 3390.008+/-0.535 $\chi^2$/NDF: 1738978.6/42




Right In: -1309.349+/-1431.624 $\chi^2$/NDF: 17.6/15

Left Out: 3463.991+/-1781.602 $\chi^2$/NDF:4.2/4

Right Out: -201.593+/-1336.062 $\chi^2$/NDF: 11.6/18

Left In: 22.793+/-2479.396 $\chi^2$/NDF:1.4/2

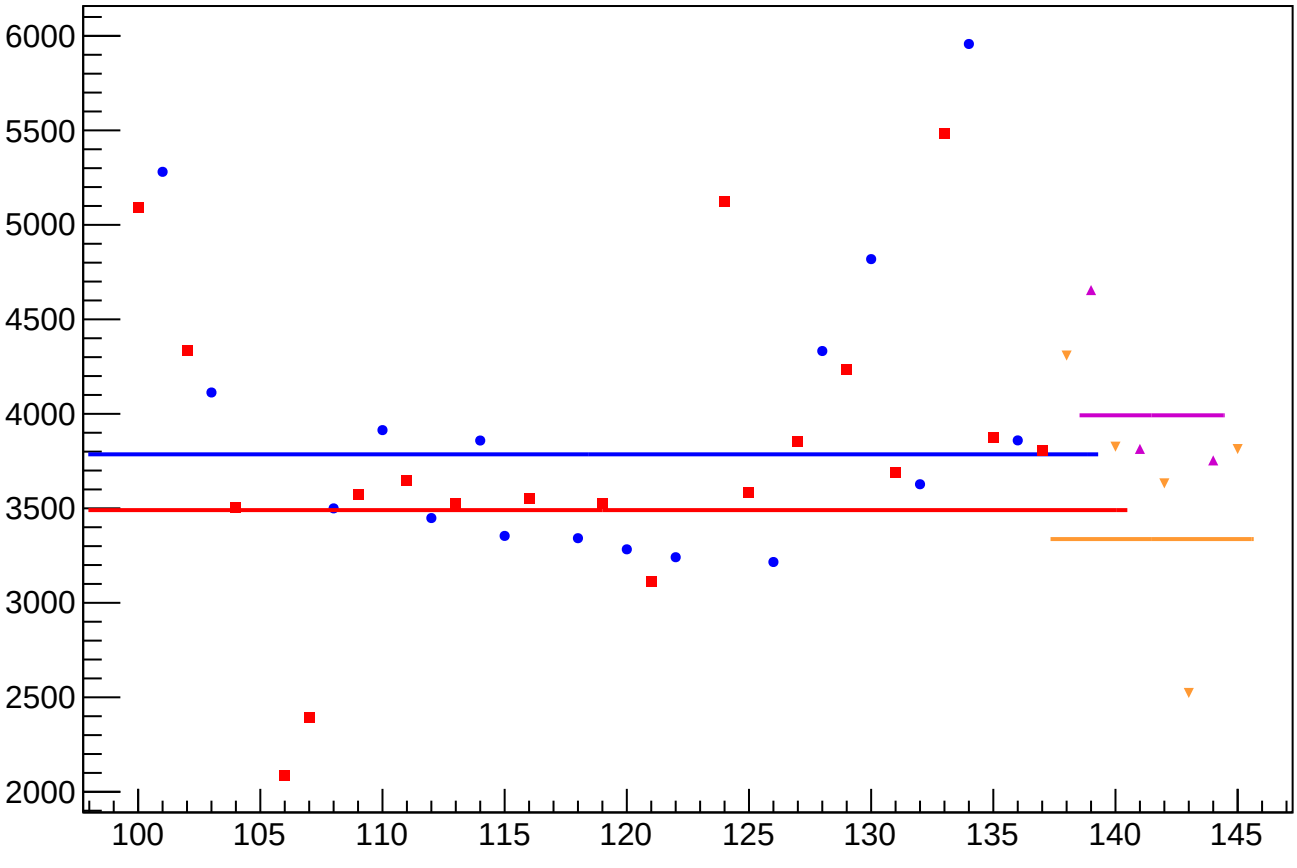
Left: 2292.215+/-1446.817 $\chi^2$/NDF: 6.8/7

Right: -717.269+/-976.776 $\chi^2$/NDF: 29.5/34

In: -976.264+/-1239.792 $\chi^2$/NDF:19.2/18

Out: 1117.841+/-1068.890 $\chi^2$/NDF:18.5/23

All: 224.961+/-809.554 $\chi^2$/NDF: 39.3/42




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 3337.348+/-1.260 $\chi^2$/NDF:305909.8/4

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 3992.262+/-1.753 $\chi^2$/NDF:45251.6/2

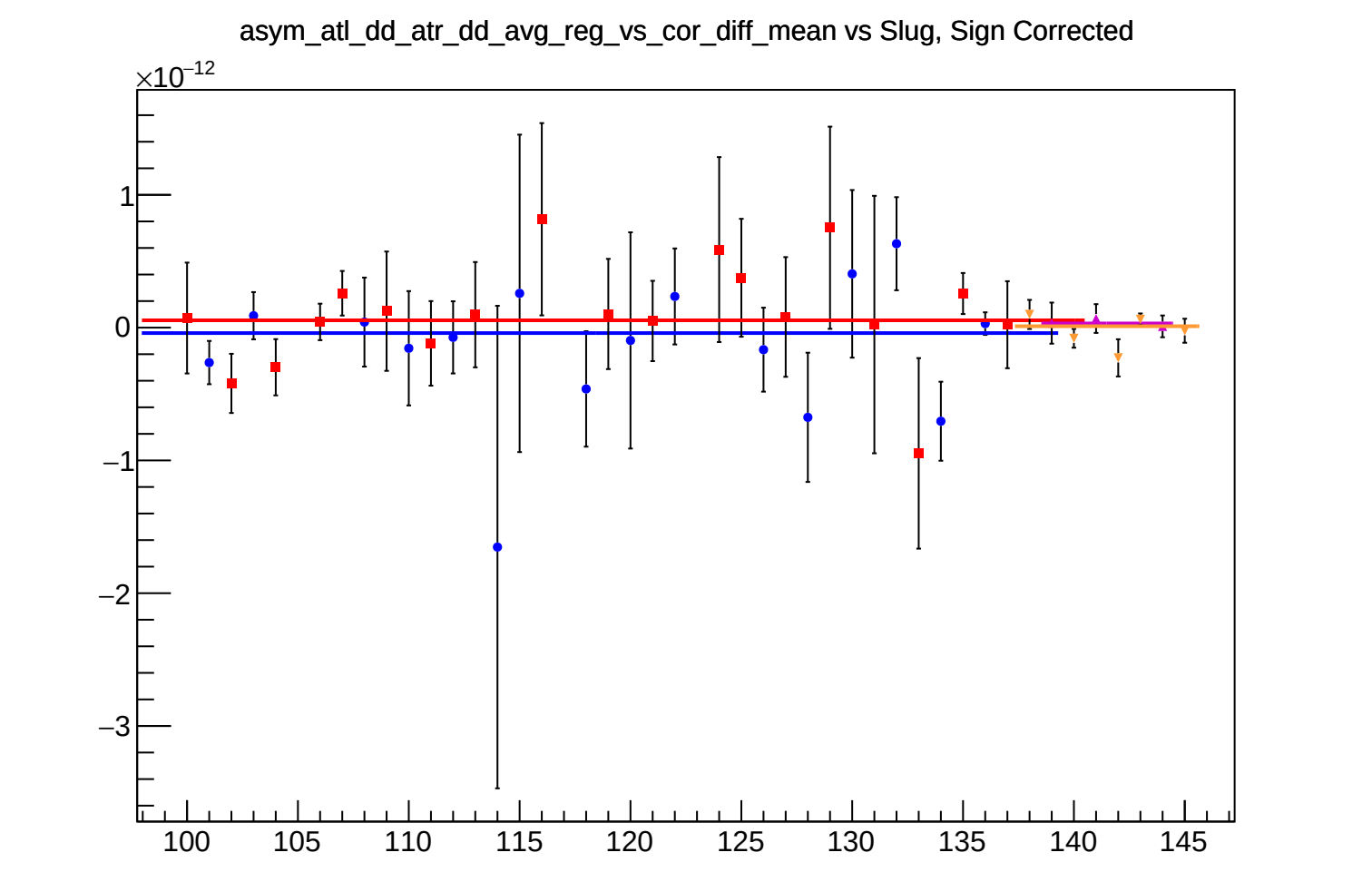
Left: 3560.356+/-1.023 $\chi^2$/NDF: 443187.8/7

Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 3837.403+/-0.877 $\chi^2$/NDF:438647.8/18

Out: 3436.411+/-0.749 $\chi^2$/NDF:902191.7/23

All: 3605.657+/-0.570 $\chi^2$/NDF: 1461756.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.2/2

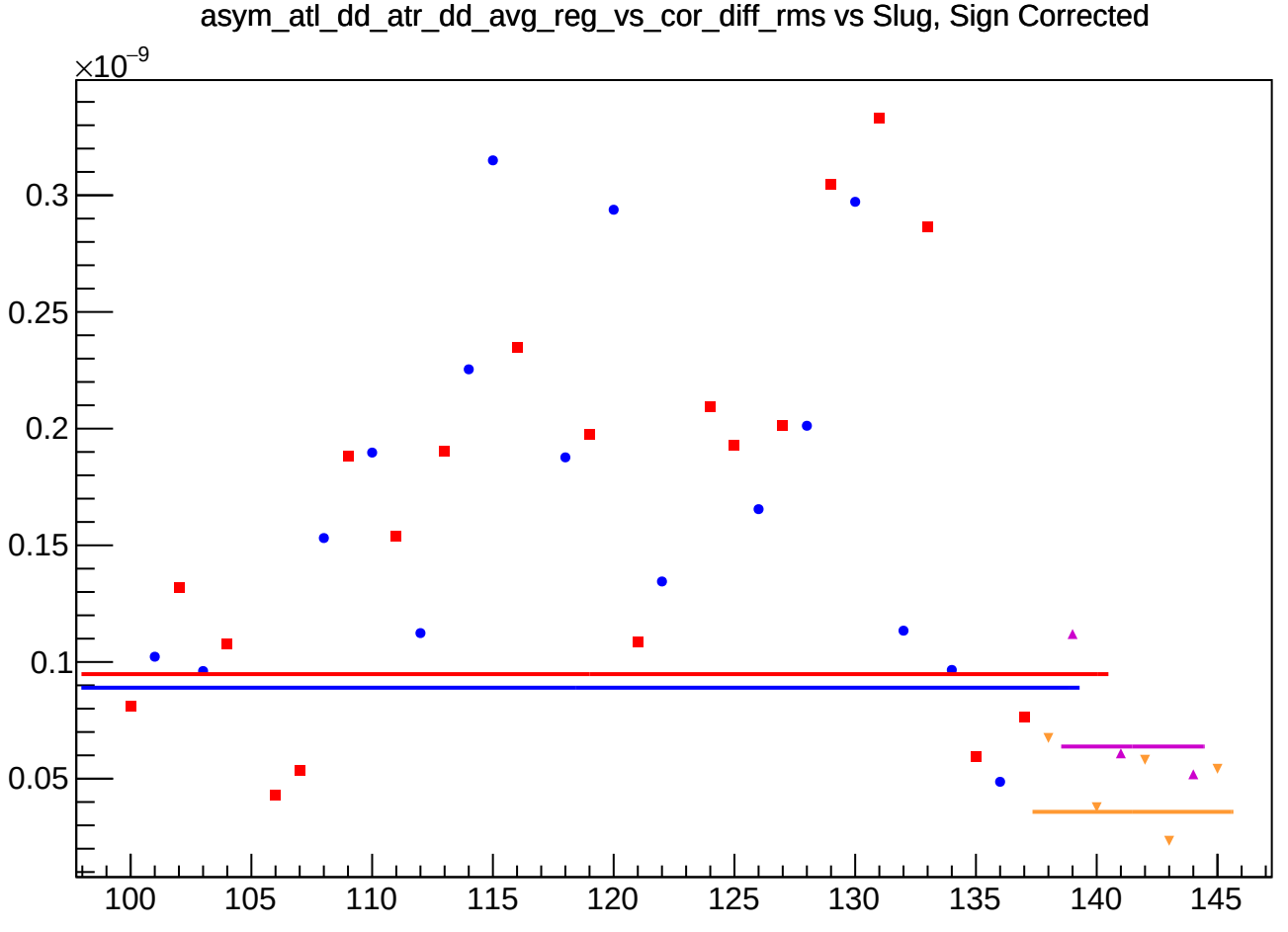
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 40.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:462218.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:237675.2/2

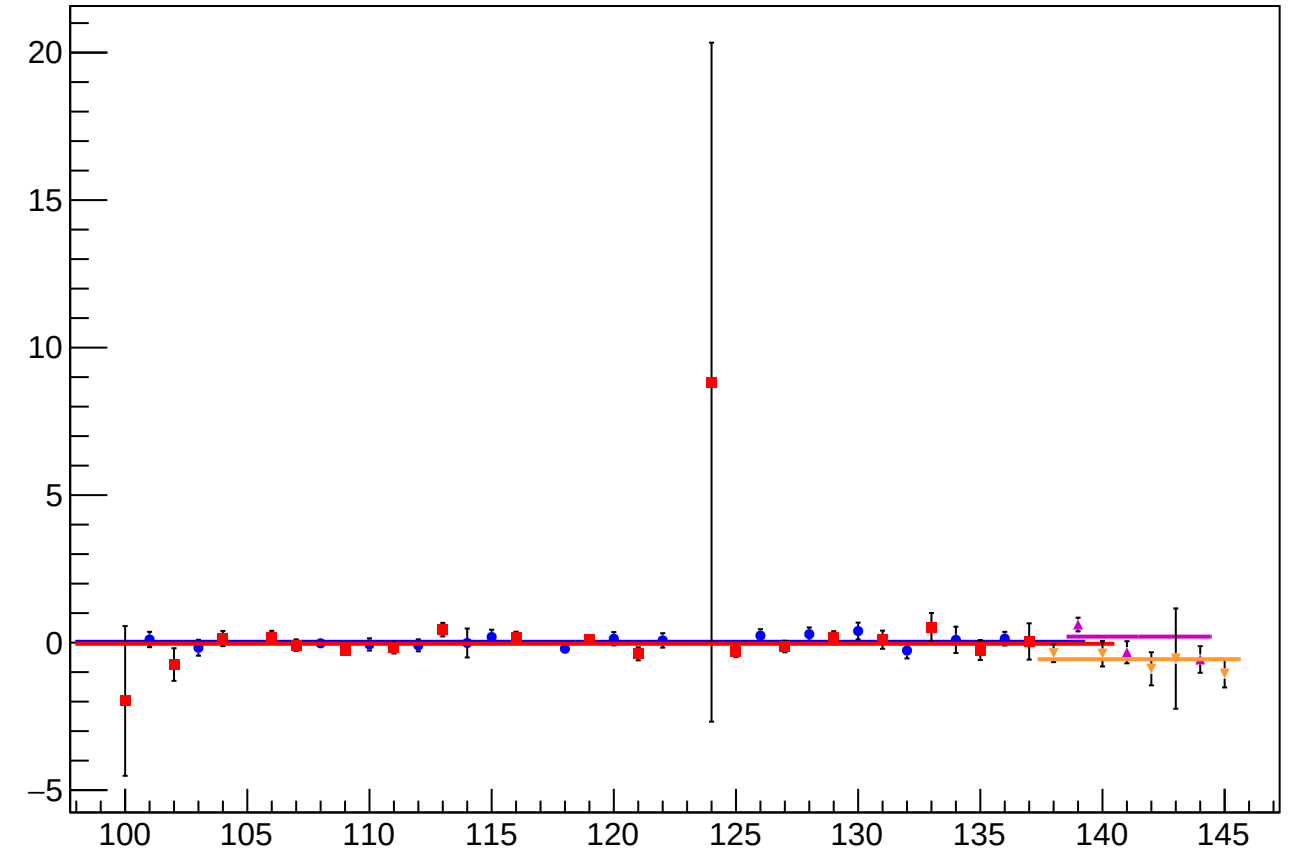
Left: 0.000+/-0.000 $\chi^2$/NDF: 1036447.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:1877202.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3557685.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6082868.6/42




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

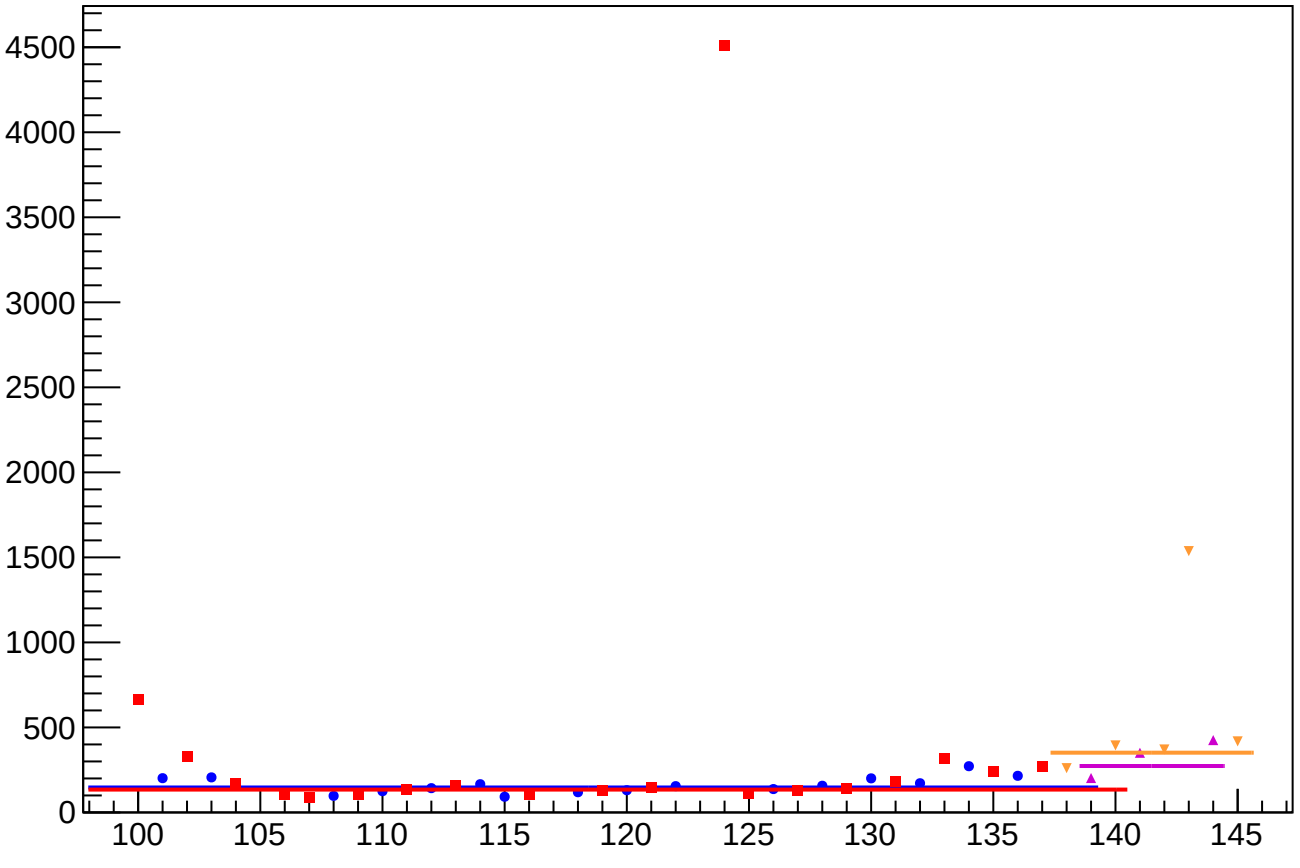
Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42




Right In: 146.829+/-0.041 $\chi^2$/NDF: 998704.7/15

Left Out: 351.544+/-0.144 $\chi^2$/NDF:1213708.4/4

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 273.171+/-0.128 $\chi^2$/NDF:499529.4/2

Left: 307.888+/-0.096 $\chi^2$/NDF: 1879295.6/7

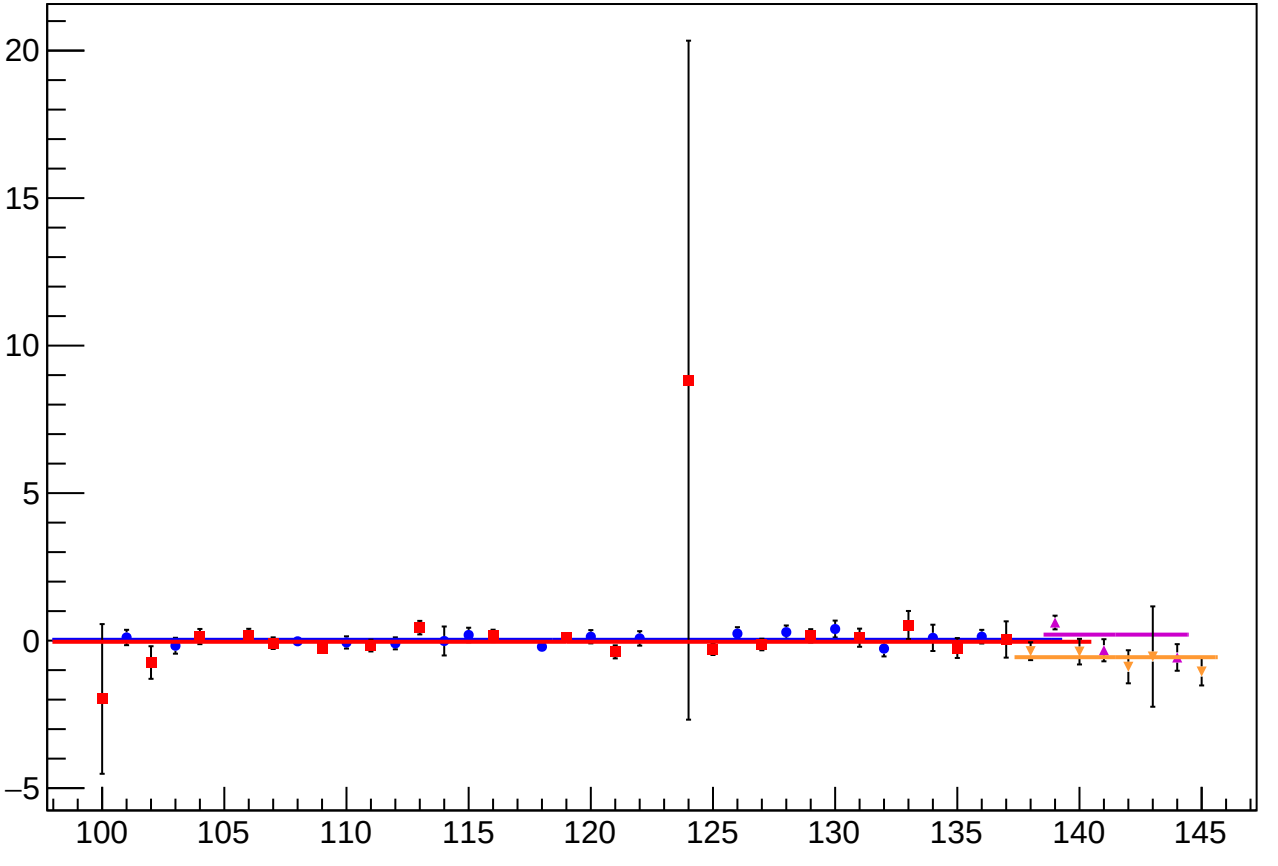
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382568.7/18

Out: 149.236+/-0.037 $\chi^2$/NDF:4951143.7/23

All: 153.680+/-0.027 $\chi^2$/NDF: 7363090.3/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

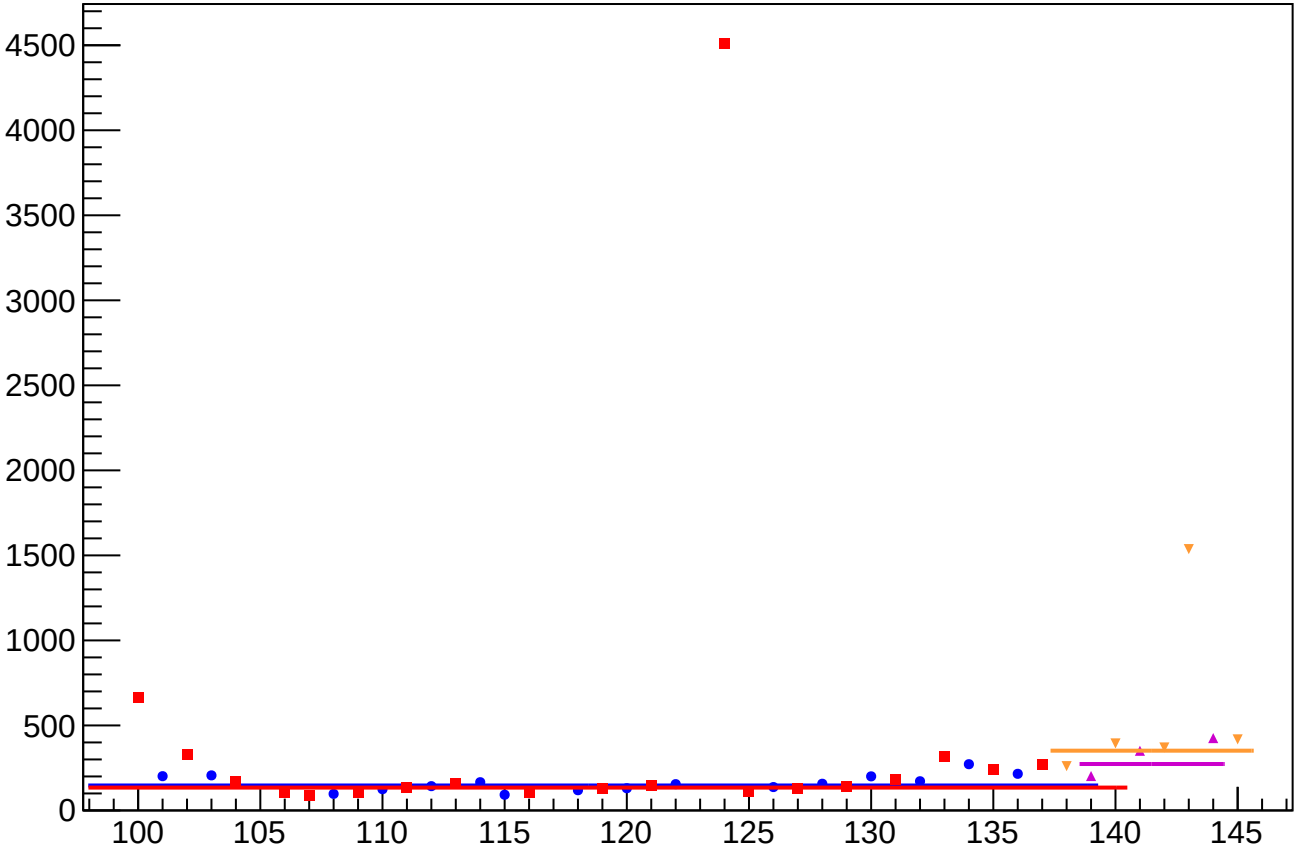
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.544+/-0.144 $\chi^2$/NDF:1213708.4/4

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 273.171+/-0.128 $\chi^2$/NDF:499529.4/2

Left: 307.888+/-0.096 $\chi^2$/NDF: 1879295.6/7

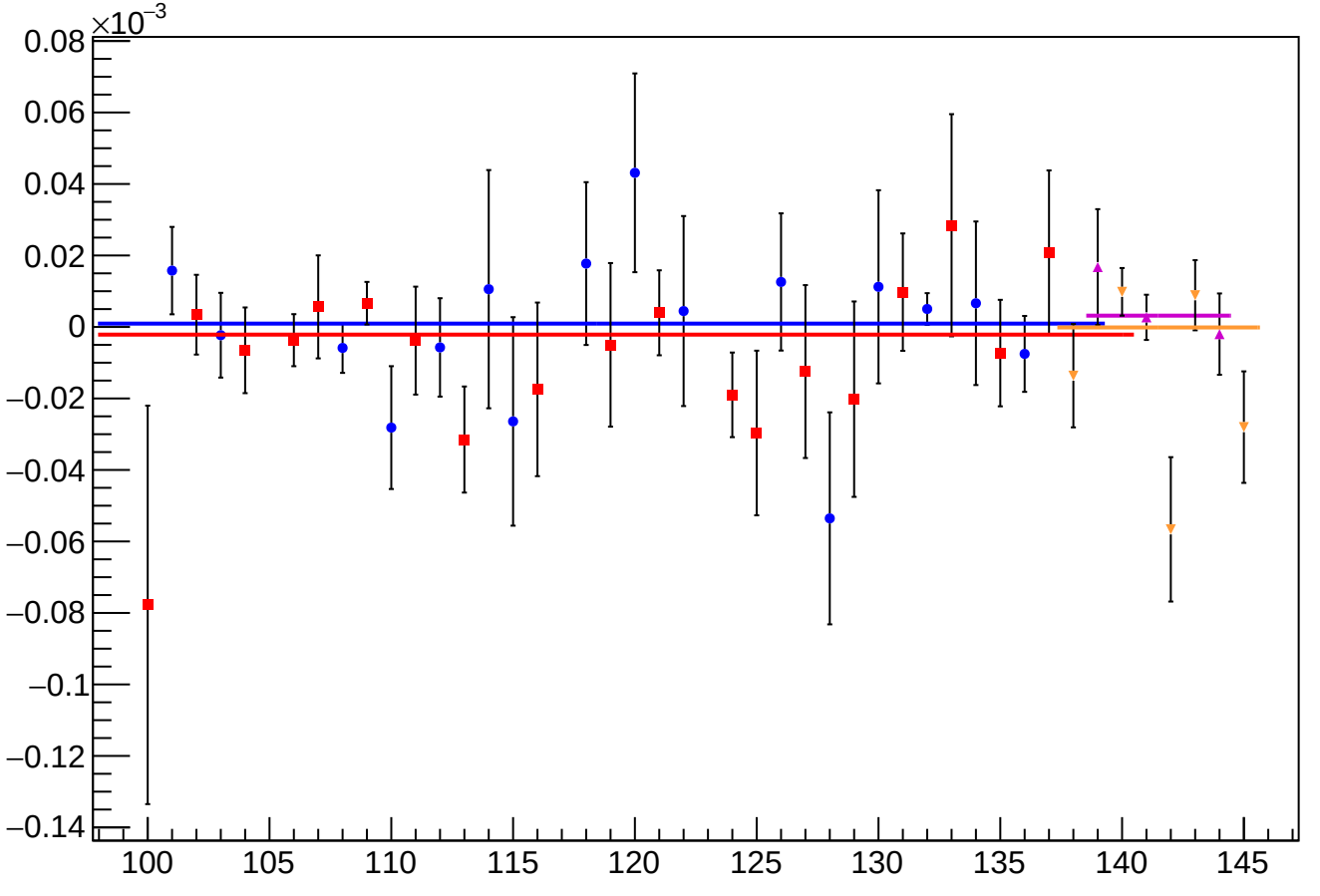
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382568.7/18

Out: 149.236+/-0.037 $\chi^2$/NDF:4951143.7/23

All: 153.680+/-0.027 $\chi^2$/NDF: 7363090.3/42

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:15.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/2

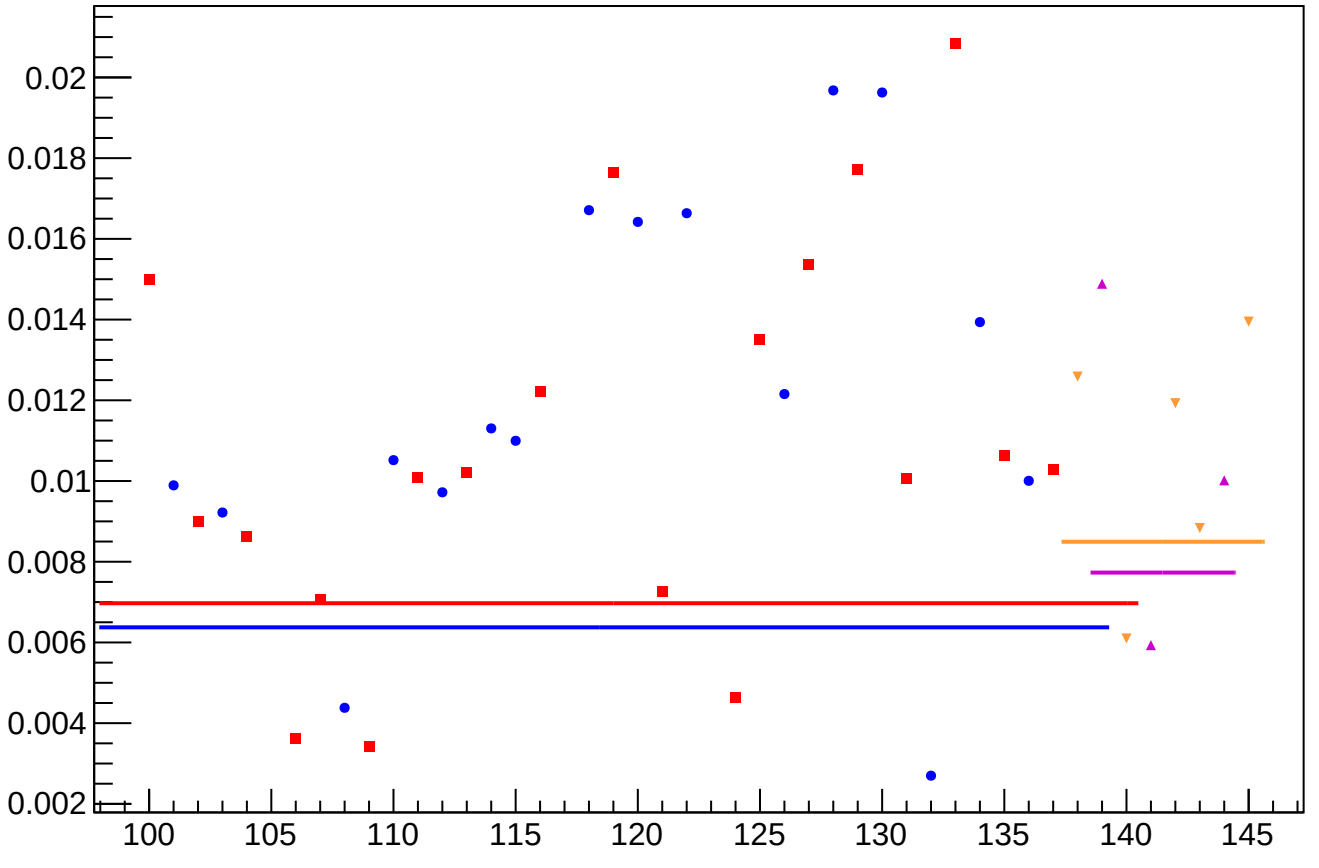
Left: 0.000+/-0.000 $\chi^2$/NDF: 16.1/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:31.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.8/42




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:723659.6/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:632815.0/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 1379863.4/7

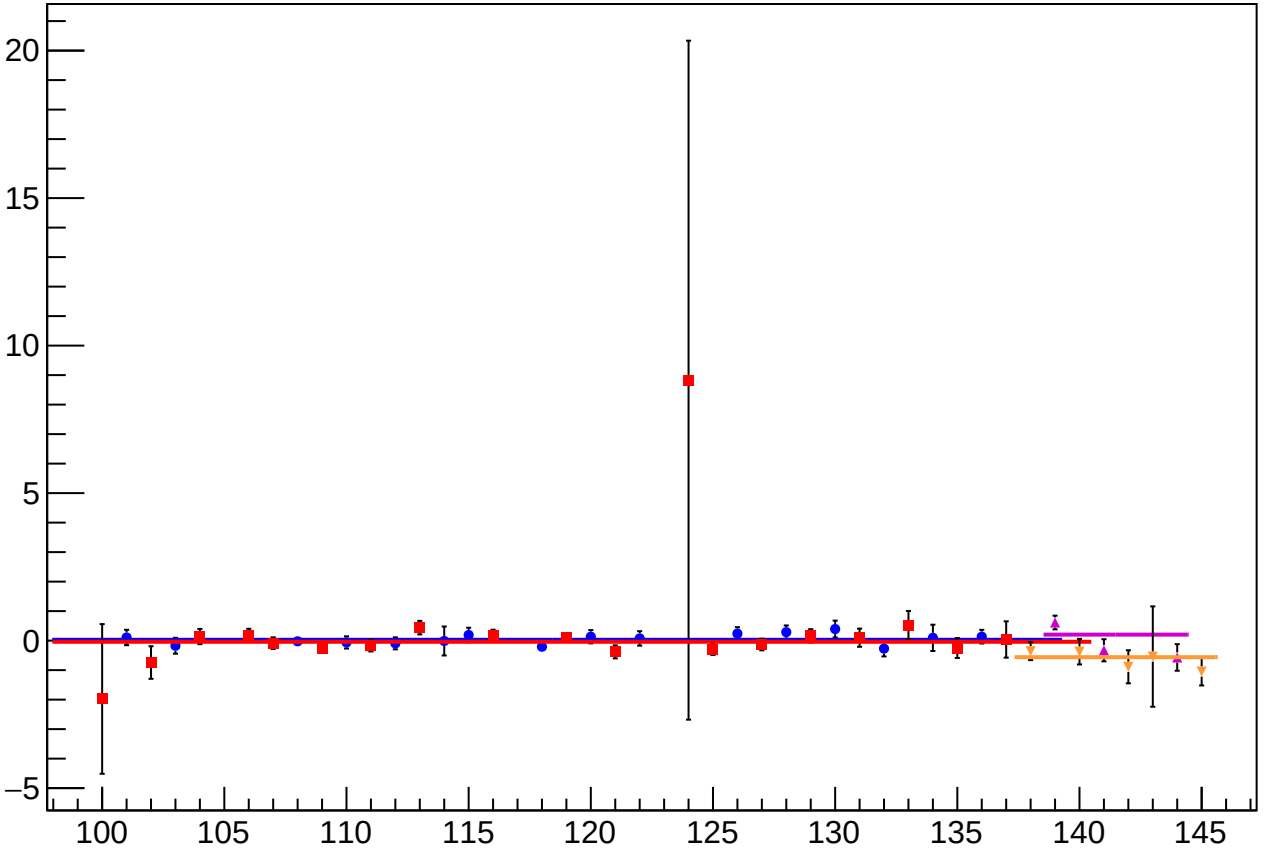
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.007+/-0.000 $\chi^2$/NDF:5375064.1/18

Out: 0.007+/-0.000 $\chi^2$/NDF:4280195.8/23

All: 0.007+/-0.000 $\chi^2$/NDF: 9732991.6/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

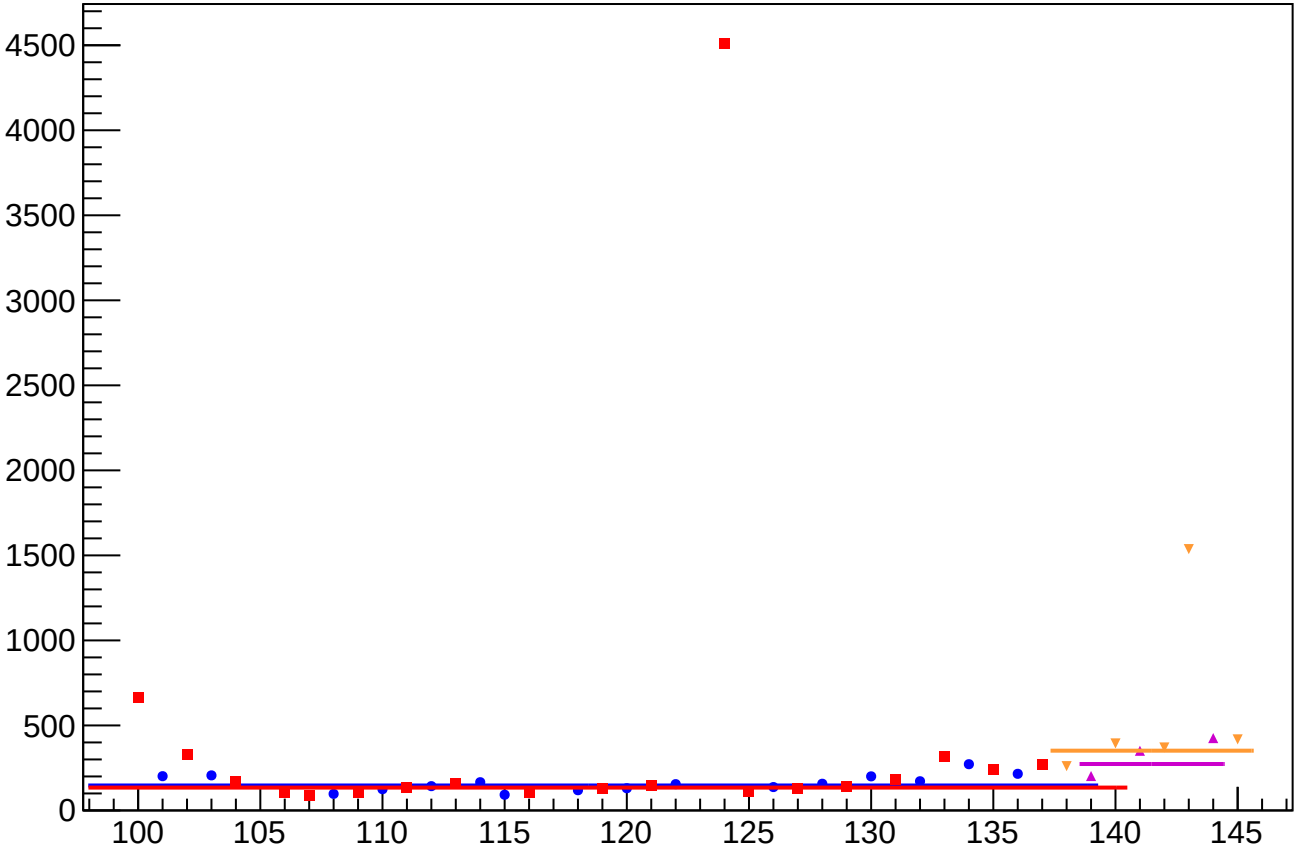
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.549+/-0.144 $\chi^2$/NDF:1213701.1/4

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 273.176+/-0.128 $\chi^2$/NDF:499512.0/2

Left: 307.893+/-0.096 $\chi^2$/NDF: 1879265.7/7

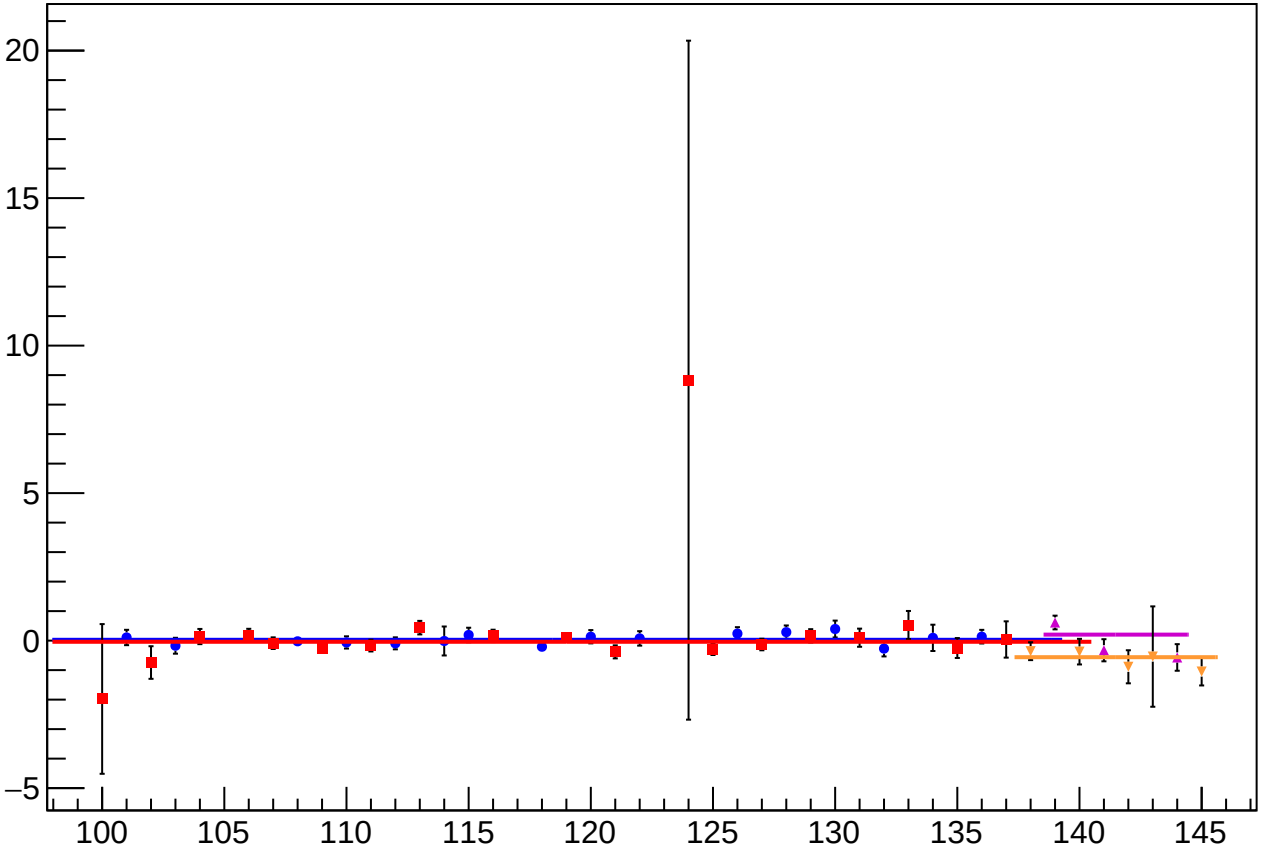
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382536.0/18

Out: 149.238+/-0.037 $\chi^2$/NDF:4951078.9/23

All: 153.681+/-0.027 $\chi^2$/NDF: 7362984.1/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

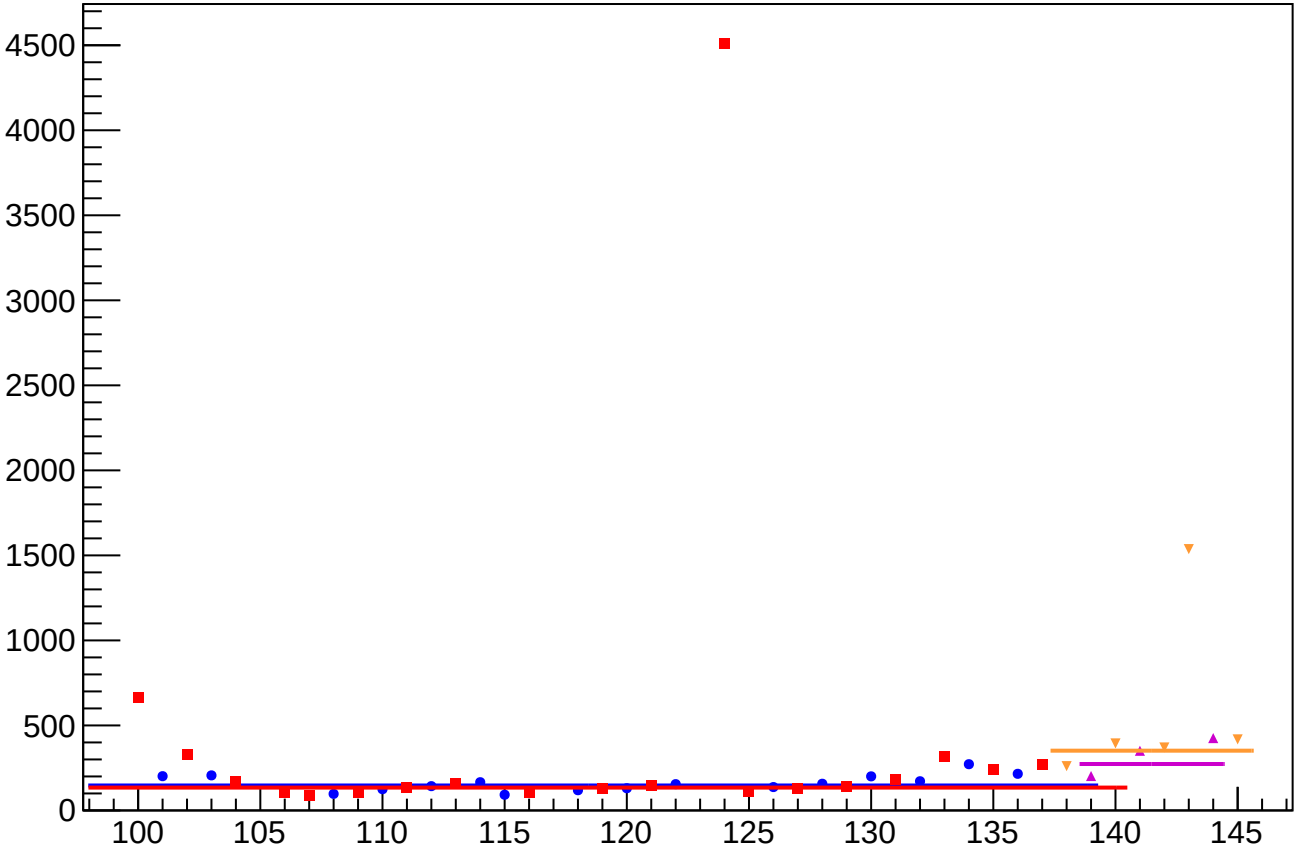
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.549+/-0.144 $\chi^2$/NDF:1213701.1/4

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 273.176+/-0.128 $\chi^2$/NDF:499512.0/2

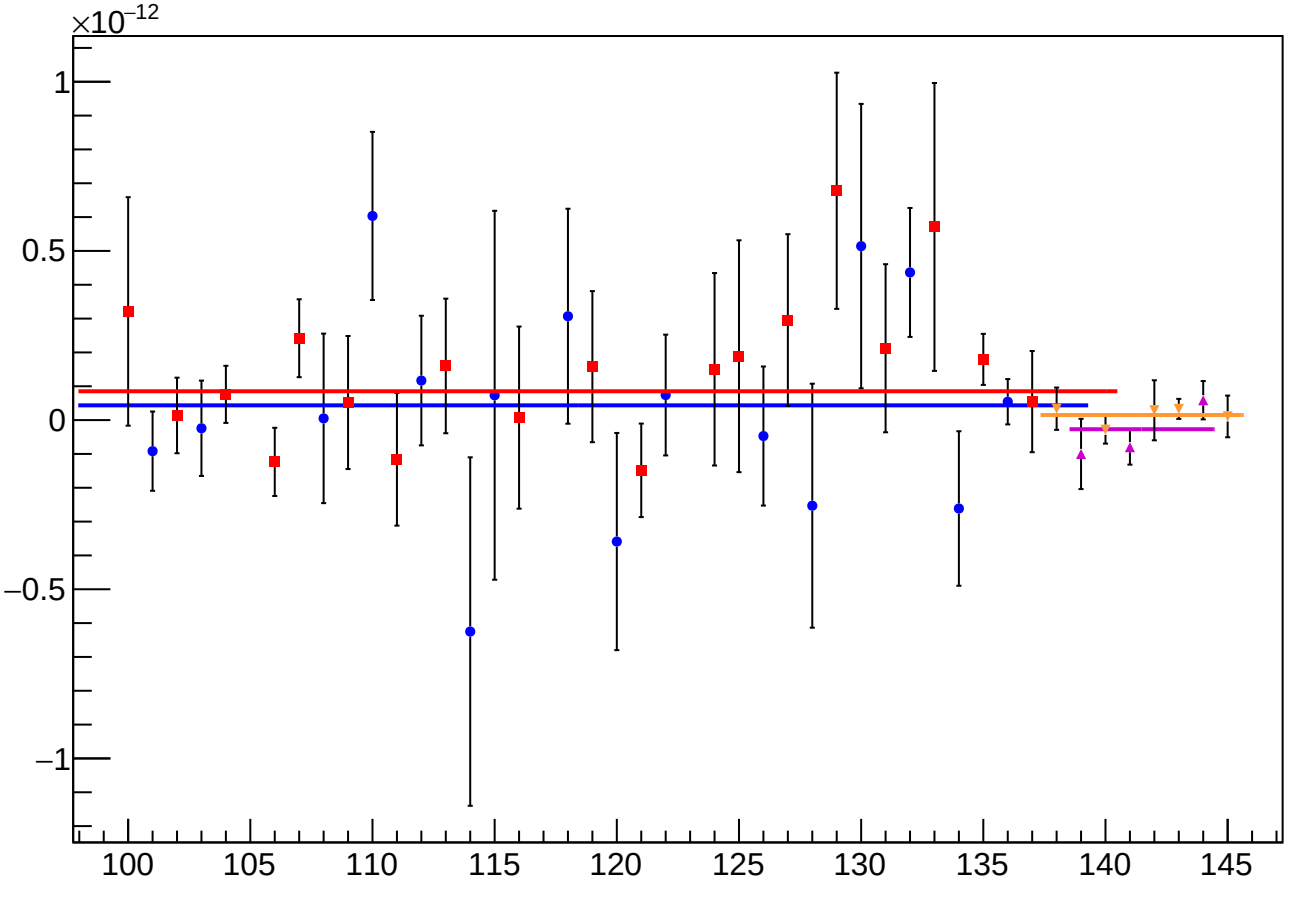
Left: 307.893+/-0.096 $\chi^2$/NDF: 1879265.7/7

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382536.0/18

Out: 149.238+/-0.037 $\chi^2$/NDF:4951078.9/23

All: 153.681+/-0.027 $\chi^2$/NDF: 7362984.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.8/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 6.5/7

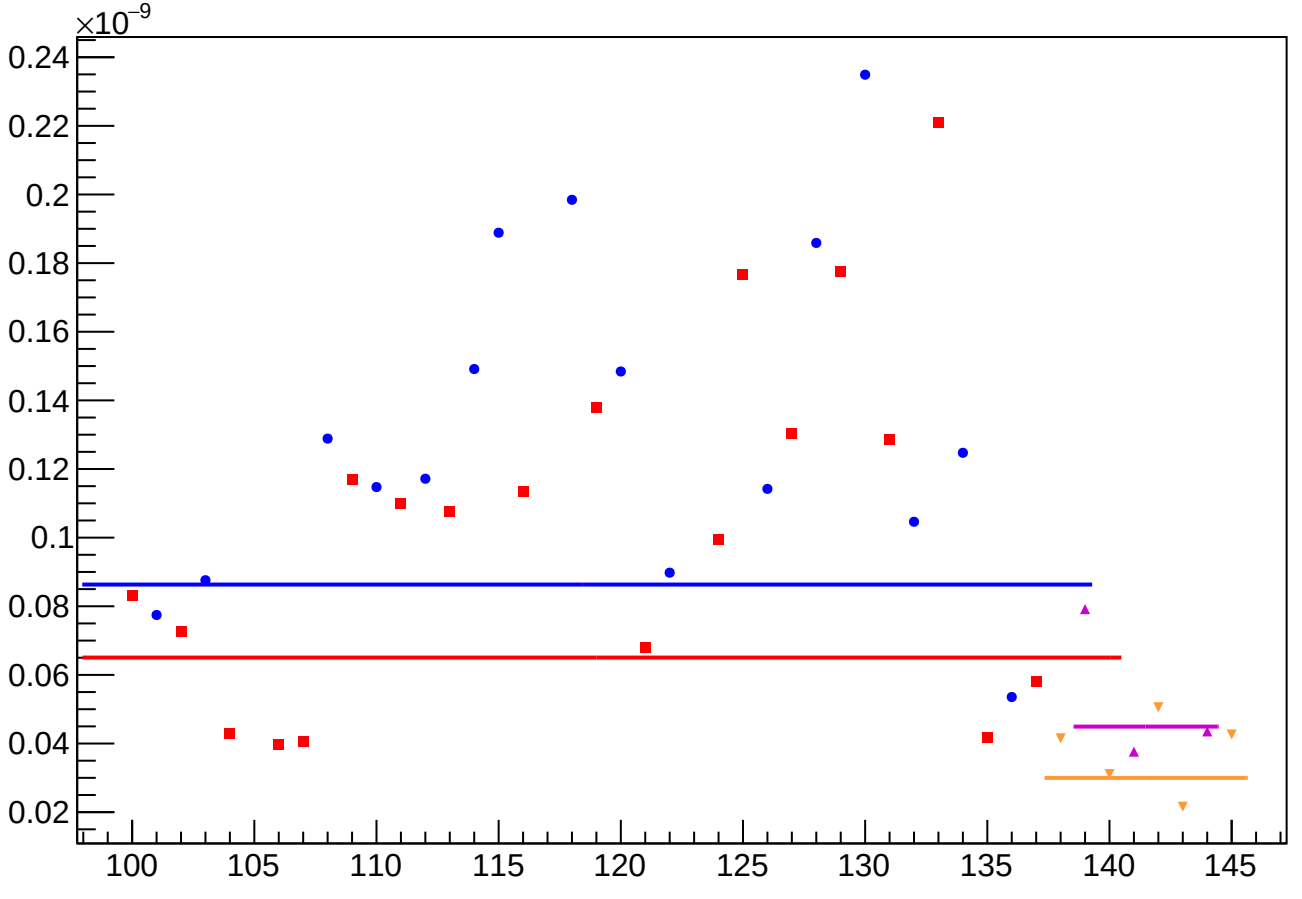
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 48.3/42

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:422011.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2158861.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:258662.8/2

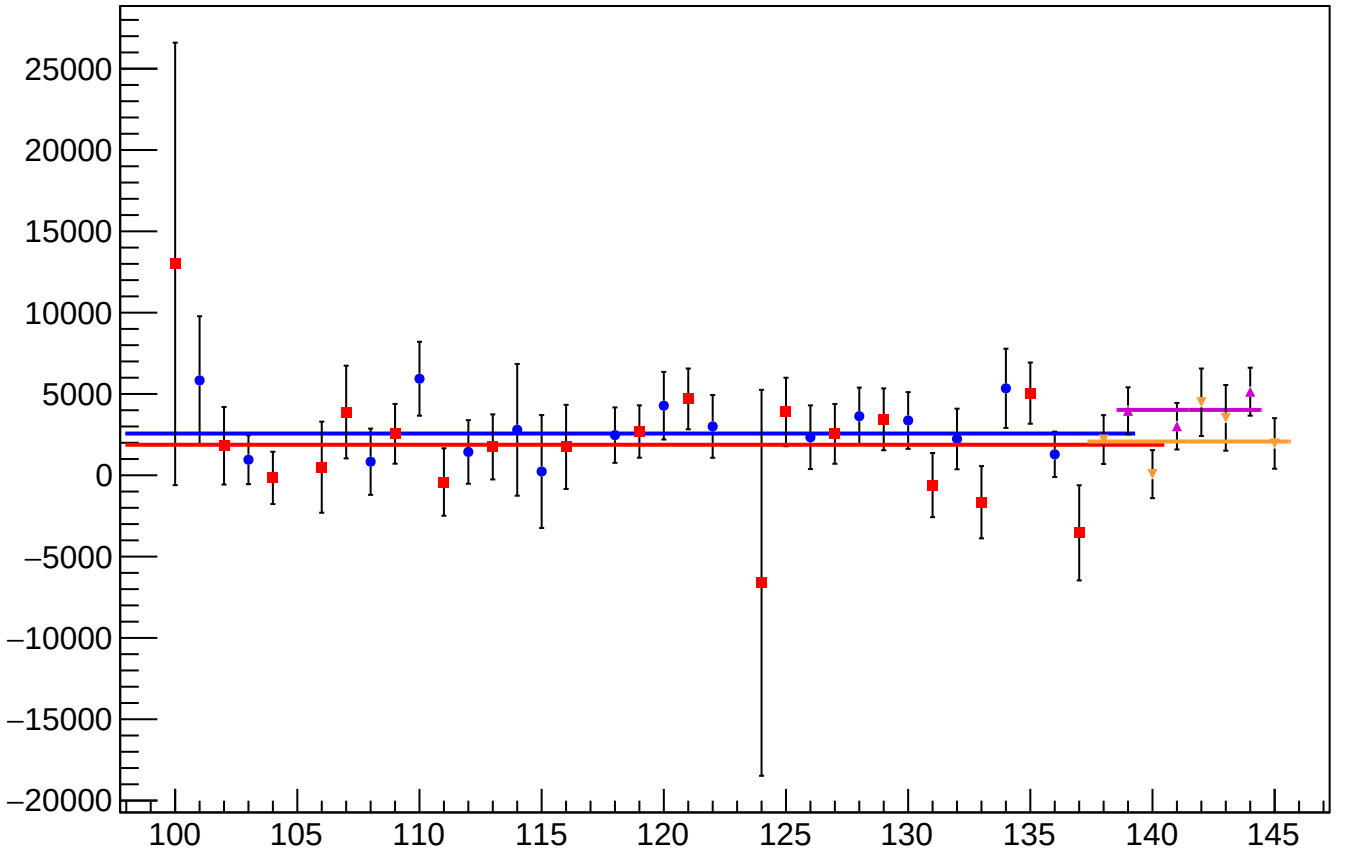
Left: 0.000+/-0.000 $\chi^2$/NDF: 943572.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4026528.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2927187.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4126249.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8029172.8/42




Right In: 2567.460+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 2077.586+/-746.408 $\chi^2$/NDF:3.7/4

Right Out: 1878.030+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 4020.475+/-837.642 $\chi^2$/NDF:1.1/2

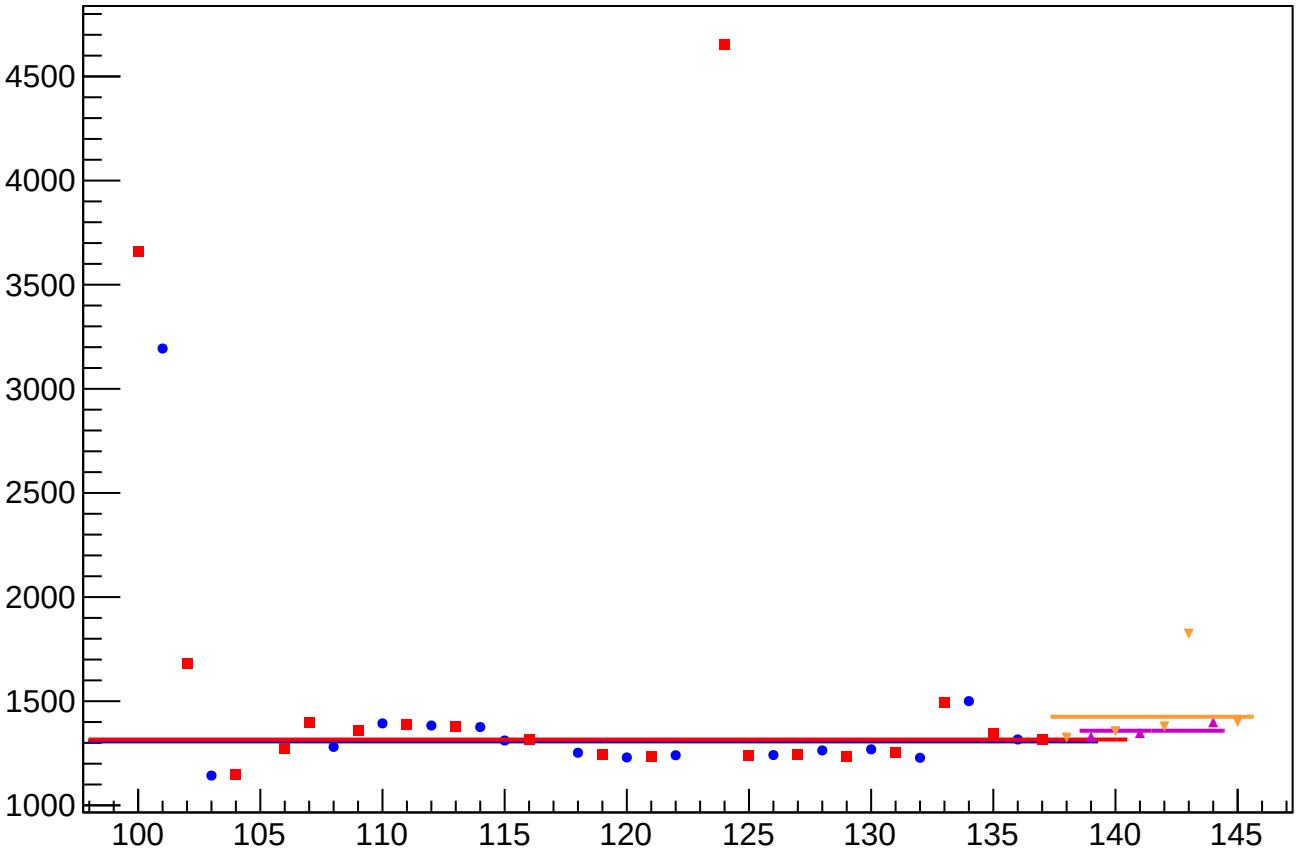
Left: 2937.499+/-557.265 $\chi^2$/NDF: 7.8/7

Right: 2222.296+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2943.952+/-426.384 $\chi^2$/NDF:12.3/18

Out: 1938.938+/-412.366 $\chi^2$/NDF:23.3/23

All: 2424.652+/-296.419 $\chi^2$/NDF: 38.5/42




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516249.0/15

Left Out: 1425.340+/-0.528 $\chi^2$/NDF:92953.3/4

Right Out: 1315.999+/-0.349 $\chi^2$/NDF: 326420.0/18

Left In: 1358.287+/-0.592 $\chi^2$/NDF:2407.0/2

Left: 1395.663+/-0.394 $\chi^2$/NDF: 102504.1/7

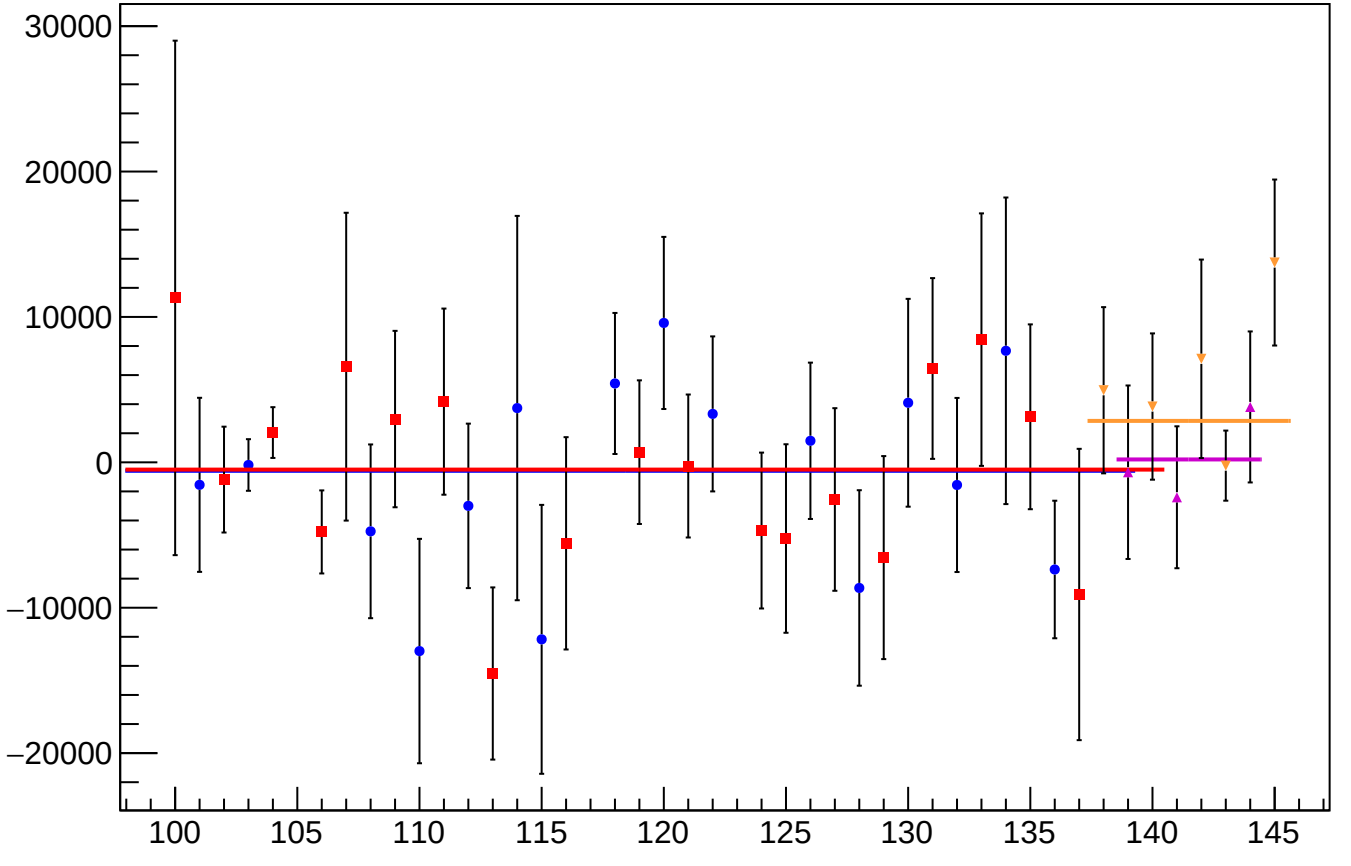
Right: 1311.551+/-0.247 $\chi^2$/NDF: 842995.4/34

In: 1320.339+/-0.301 $\chi^2$/NDF:524196.3/18

Out: 1349.247+/-0.291 $\chi^2$/NDF:449241.6/23

All: 1335.303+/-0.209 $\chi^2$/NDF: 978196.5/42

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: 2849.635+/-1843.171 $\chi^2$/NDF:5.8/4

Right Out: -500.098+/-1055.434 $\chi^2$/NDF: 17.7/18

Left In: 198.303+/-3054.906 $\chi^2$/NDF:0.8/2

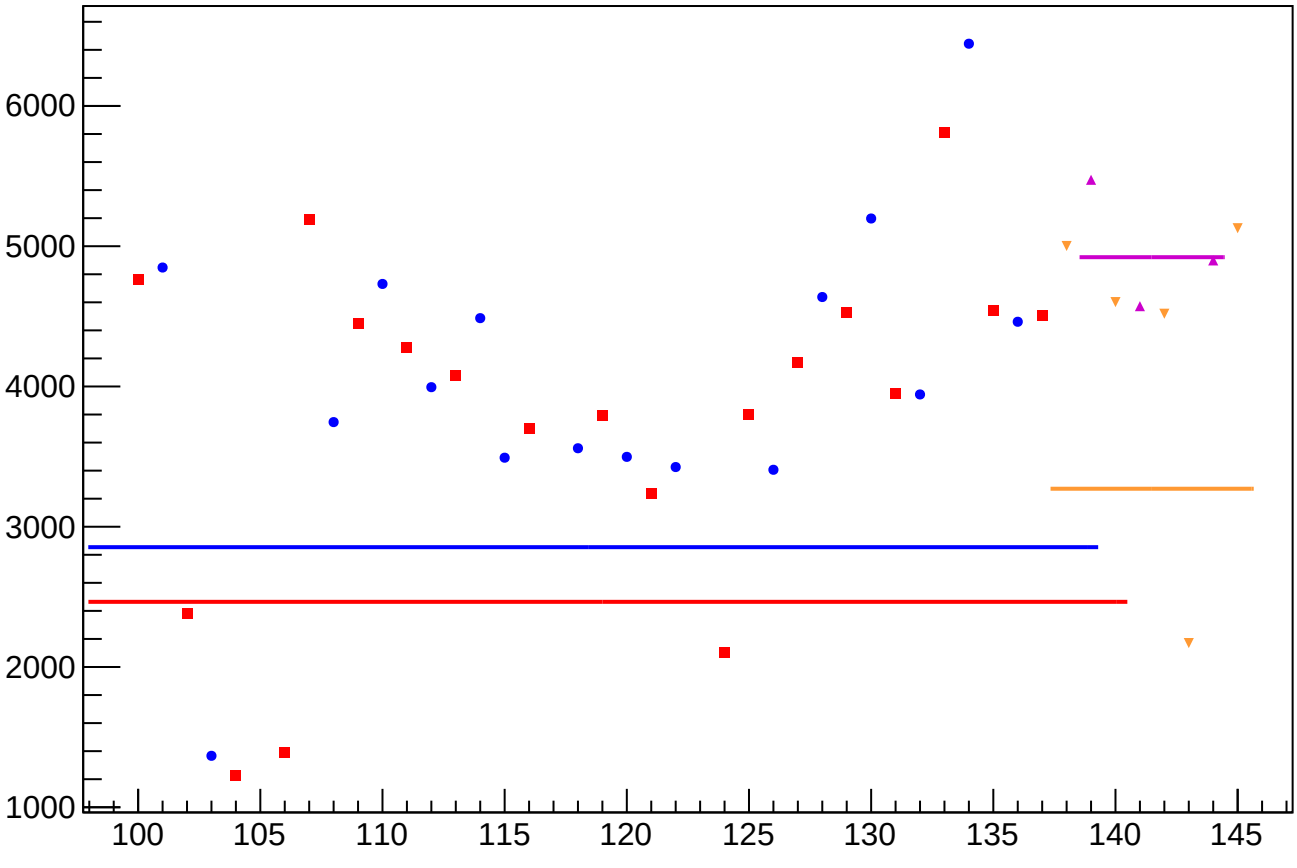
Left: 2142.054+/-1578.170 $\chi^2$/NDF: 7.2/7

Right: -535.969+/-790.447 $\chi^2$/NDF: 32.4/34

In: -478.585+/-1111.157 $\chi^2$/NDF:15.6/18

Out: 327.041+/-915.903 $\chi^2$/NDF:26.0/23

All: 1.115+/-706.753 $\chi^2$/NDF: 41.9/42




Right In: 2854.300+/-0.843 $\chi^2$/NDF: 2904822.2/15

Left Out: 3270.960+/-1.303 $\chi^2$/NDF:1018509.5/4

Right Out: 2464.593+/-0.746 $\chi^2$/NDF: 3355947.0/18

Left In: 4921.786+/-2.160 $\chi^2$/NDF:27390.1/2

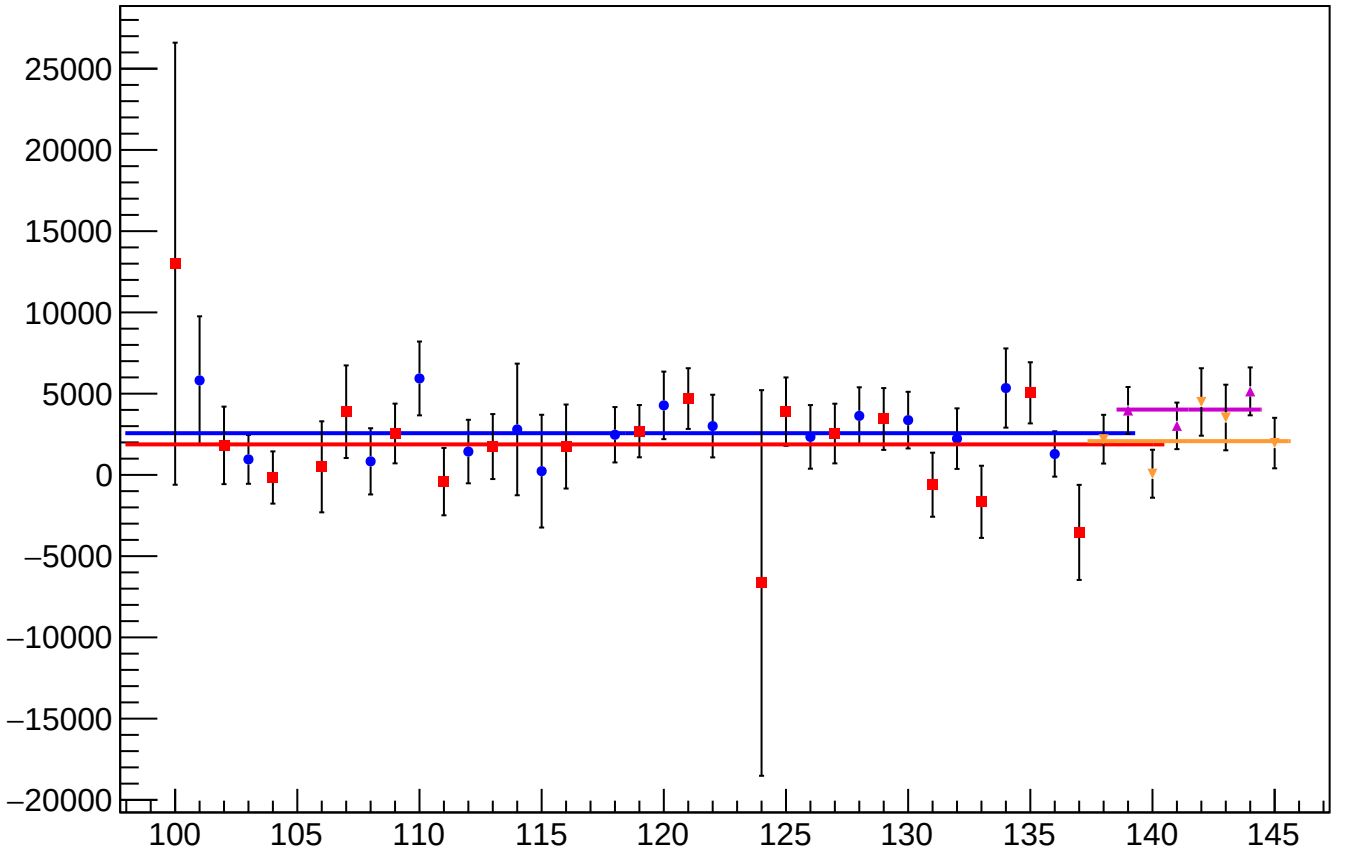
Left: 3711.528+/-1.116 $\chi^2$/NDF: 1474067.2/7

Right: 2635.714+/-0.559 $\chi^2$/NDF: 6380500.9/34

In: 3127.825+/-0.786 $\chi^2$/NDF:3727071.3/18

Out: 2663.707+/-0.648 $\chi^2$/NDF:4662727.7/23

All: 2851.471+/-0.500 $\chi^2$/NDF: 8597564.7/42




Right In: 2567.180+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 2077.735+/-746.408 $\chi^2$/NDF:3.7/4

Right Out: 1877.774+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 4020.746+/-837.642 $\chi^2$/NDF:1.1/2

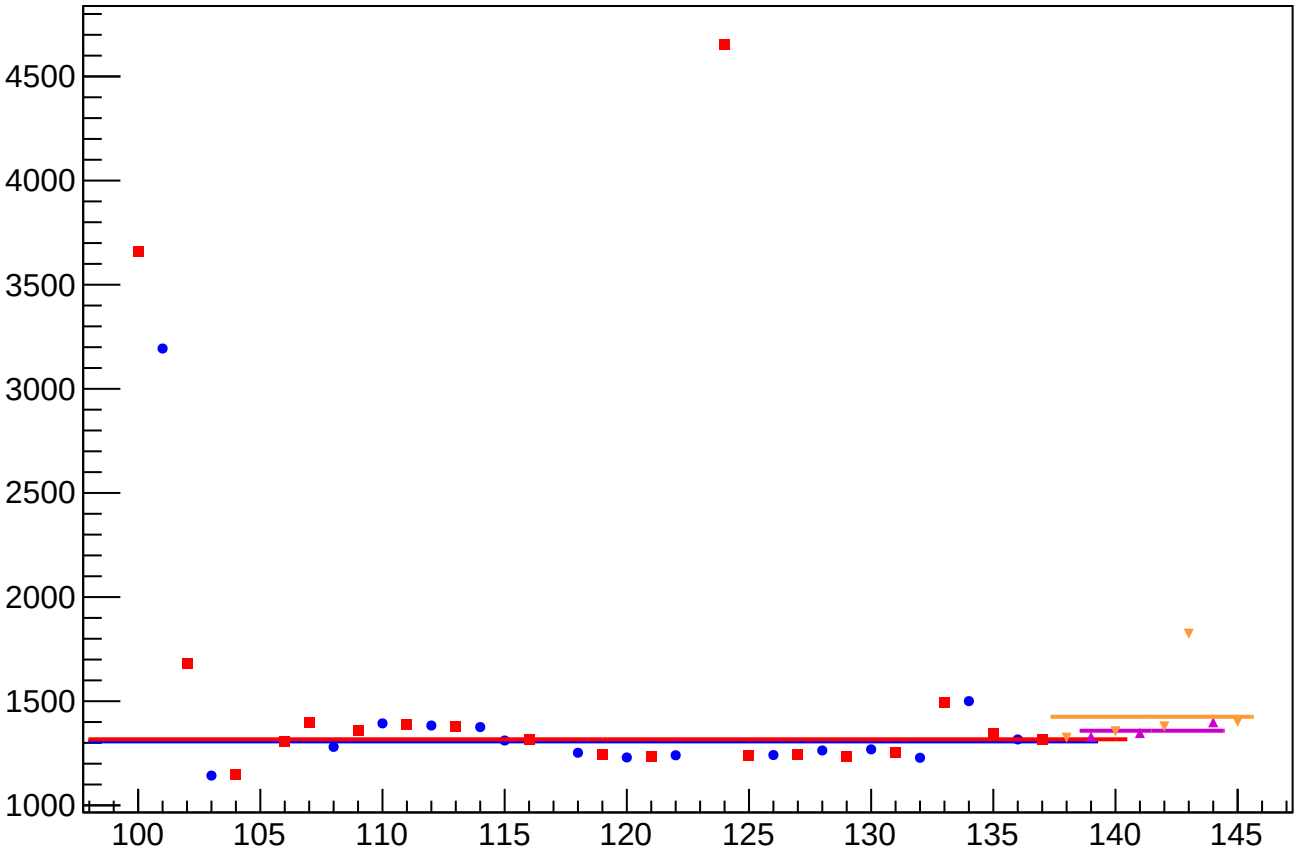
Left: 2937.702+/-557.265 $\chi^2$/NDF: 7.8/7

Right: 2222.028+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2943.815+/-426.384 $\chi^2$/NDF:12.3/18

Out: 1938.806+/-412.366 $\chi^2$/NDF:23.3/23

All: 2424.518+/-296.419 $\chi^2$/NDF: 38.5/42




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516250.6/15

Left Out: 1425.340+/-0.528 $\chi^2$/NDF:92953.3/4

Right Out: 1317.128+/-0.349 $\chi^2$/NDF: 325926.8/18

Left In: 1358.287+/-0.592 $\chi^2$/NDF:2407.0/2

Left: 1395.663+/-0.394 $\chi^2$/NDF: 102504.1/7

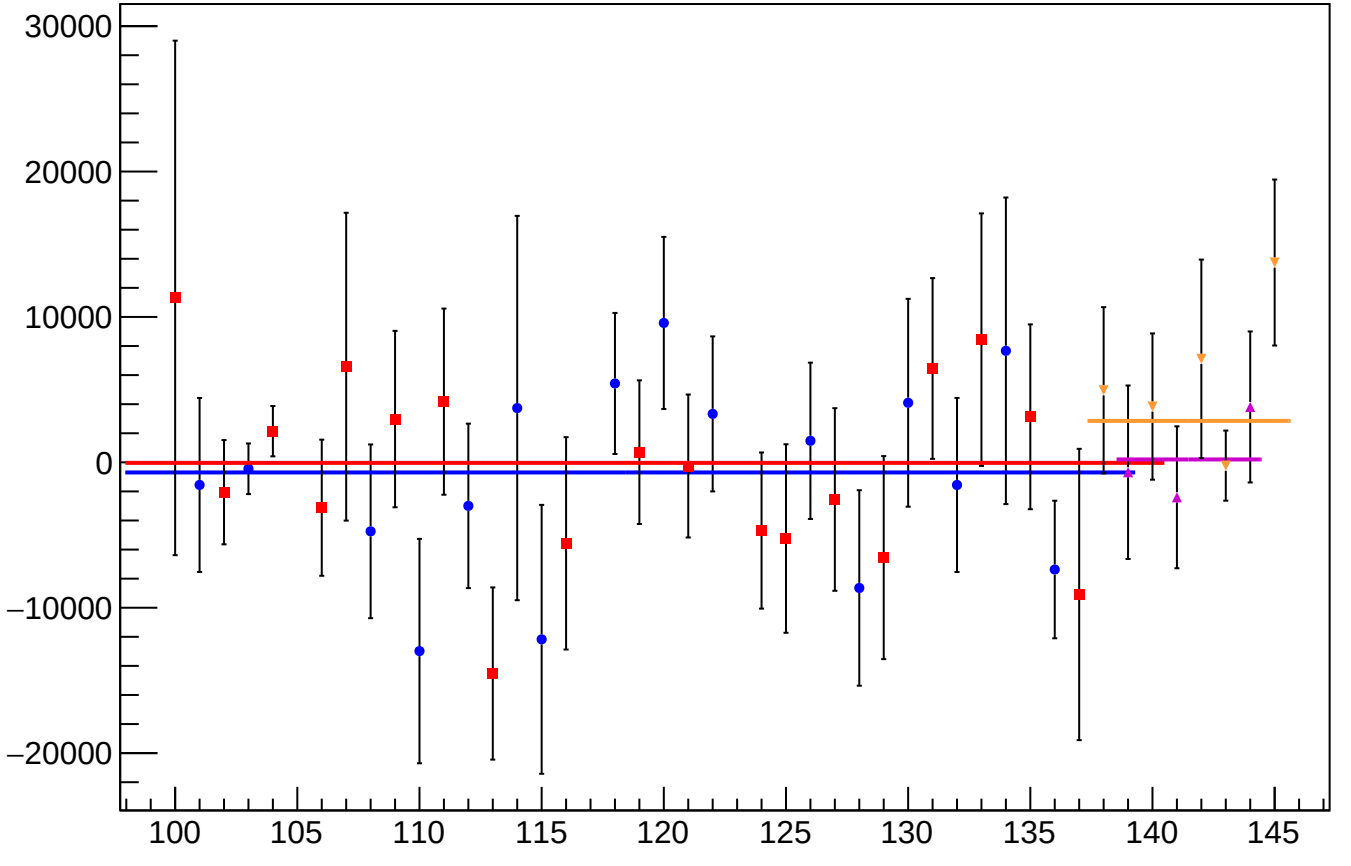
Right: 1312.114+/-0.247 $\chi^2$/NDF: 842591.1/34

In: 1320.339+/-0.301 $\chi^2$/NDF:524197.9/18

Out: 1350.069+/-0.291 $\chi^2$/NDF:448120.5/23

All: 1335.721+/-0.209 $\chi^2$/NDF: 977348.9/42

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: 2849.684+/-1843.155 $\chi^2$/NDF:5.8/4

Right Out: -36.115+/-1098.207 $\chi^2$/NDF: 15.9/18

Left In: 198.363+/-3054.906 $\chi^2$/NDF:0.8/2

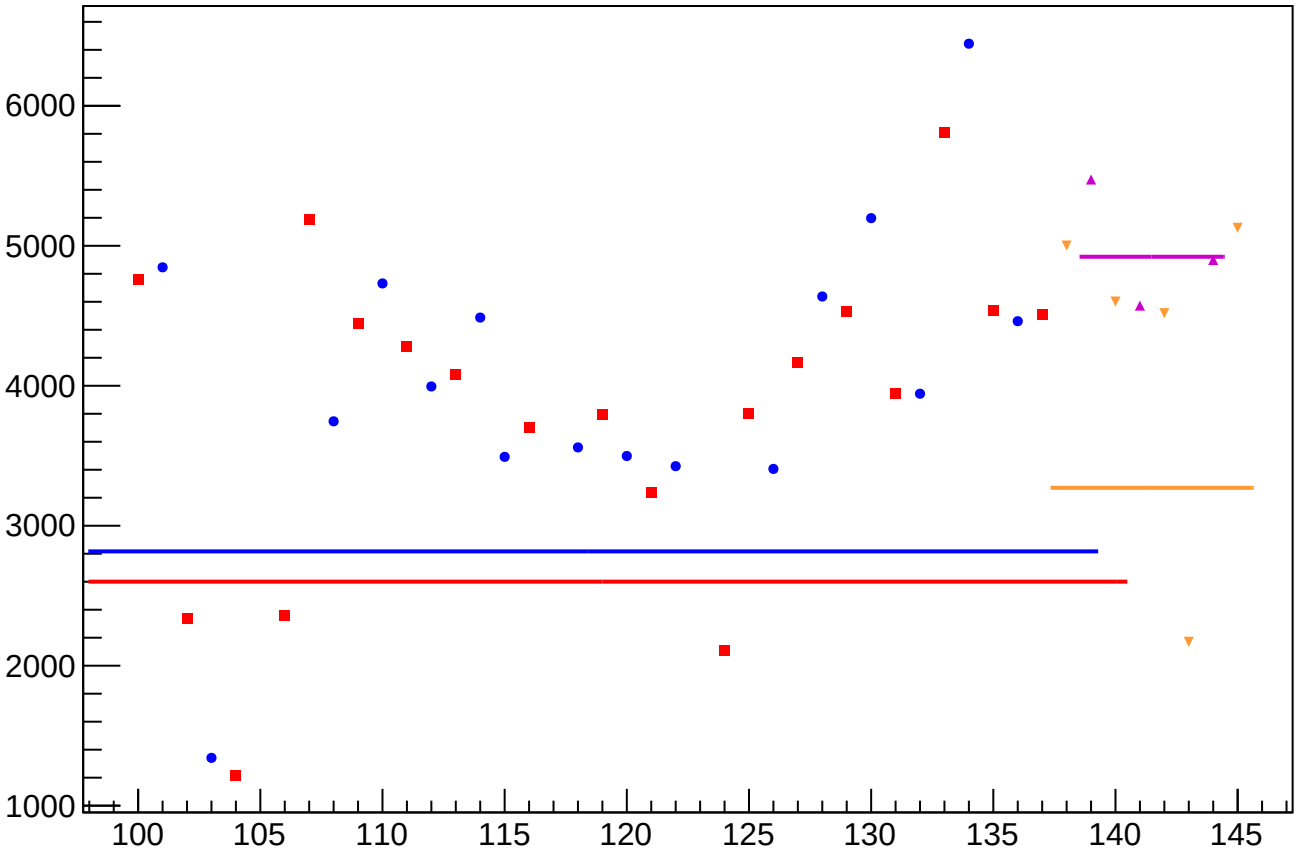
Left: 2142.115+/-1578.160 $\chi^2$/NDF: 7.2/7

Right: -341.373+/-804.680 $\chi^2$/NDF: 30.8/34

In: -578.816+/-1102.713 $\chi^2$/NDF:15.5/18

Out: 719.964+/-943.436 $\chi^2$/NDF:23.6/23

All: 171.065+/-716.871 $\chi^2$/NDF: 39.9/42




Right In: 2816.784+/-0.836 $\chi^2$/NDF: 3007570.0/15

Left Out: 3270.924+/-1.303 $\chi^2$/NDF:1018537.4/4

Right Out: 2600.524+/-0.777 $\chi^2$/NDF: 3080771.9/18

Left In: 4921.785+/-2.160 $\chi^2$/NDF:27390.9/2

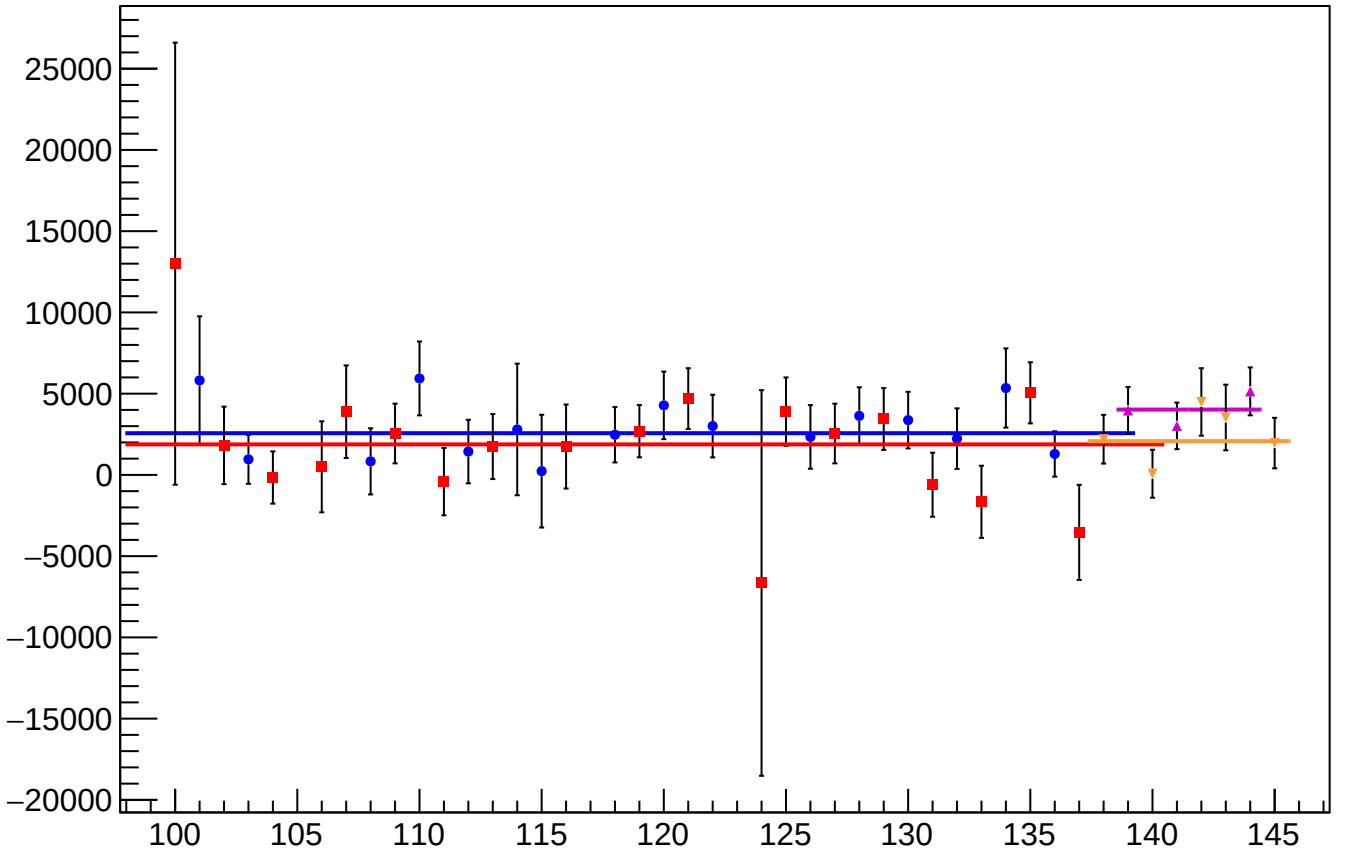
Left: 3711.497+/-1.116 $\chi^2$/NDF: 1474115.2/7

Right: 2700.678+/-0.569 $\chi^2$/NDF: 6124259.3/34

In: 3091.056+/-0.780 $\chi^2$/NDF:3860829.1/18

Out: 2776.169+/-0.667 $\chi^2$/NDF:4294577.2/23

All: 2909.248+/-0.507 $\chi^2$/NDF: 8249567.2/42




Right In: 2567.180+/-495.364 $\chi^2$/NDF: 9.0/15

Left Out: 2077.735+/-746.408 $\chi^2$/NDF:3.7/4

Right Out: 1877.774+/-494.719 $\chi^2$/NDF: 19.5/18

Left In: 4020.746+/-837.642 $\chi^2$/NDF:1.1/2

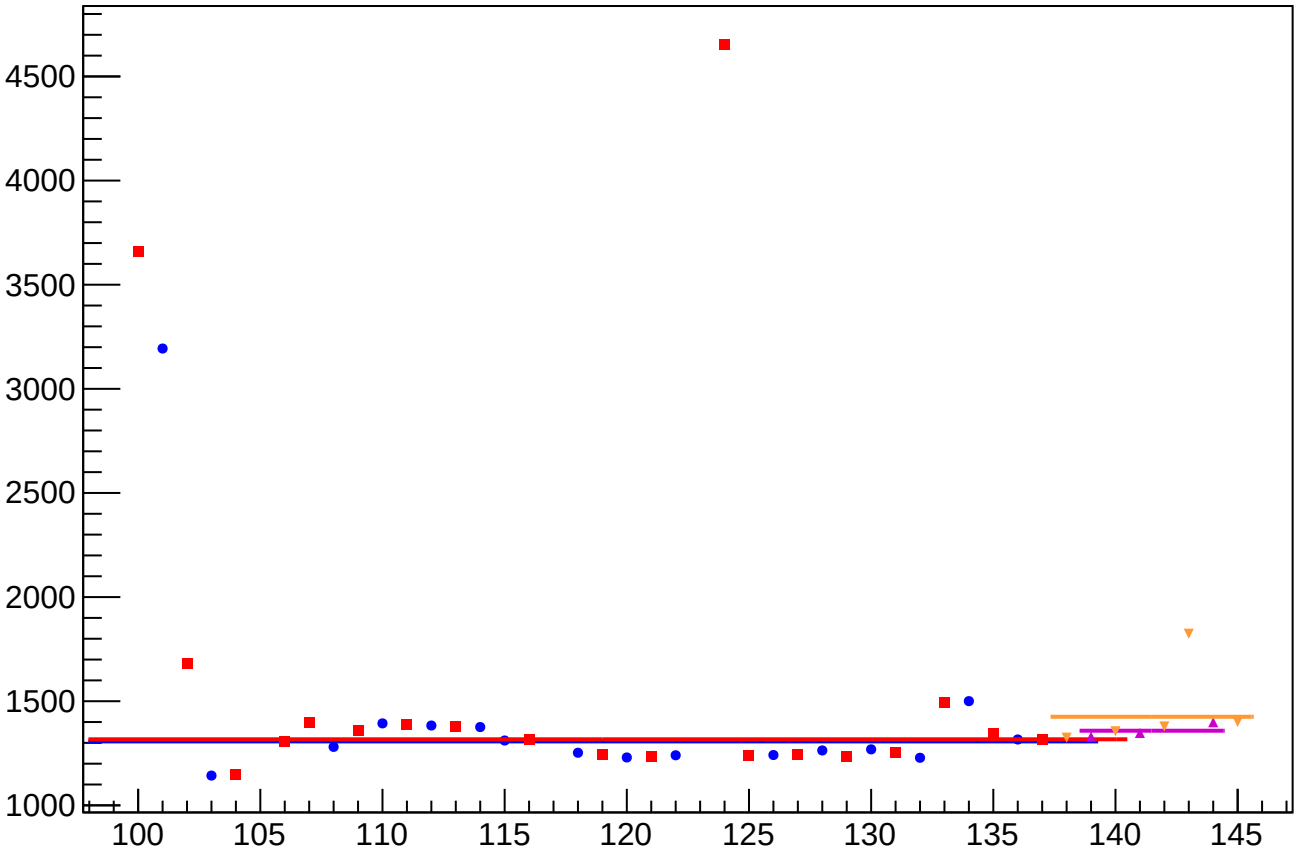
Left: 2937.702+/-557.265 $\chi^2$/NDF: 7.8/7

Right: 2222.028+/-350.047 $\chi^2$/NDF: 29.6/34

In: 2943.815+/-426.384 $\chi^2$/NDF:12.3/18

Out: 1938.806+/-412.366 $\chi^2$/NDF:23.3/23

All: 2424.518+/-296.419 $\chi^2$/NDF: 38.5/42




Right In: 1307.068+/-0.350 $\chi^2$/NDF: 516250.6/15

Left Out: 1425.340+/-0.528 $\chi^2$/NDF:92953.3/4

Right Out: 1317.128+/-0.349 $\chi^2$/NDF: 325926.8/18

Left In: 1358.287+/-0.592 $\chi^2$/NDF:2407.0/2

Left: 1395.663+/-0.394 $\chi^2$/NDF: 102504.1/7

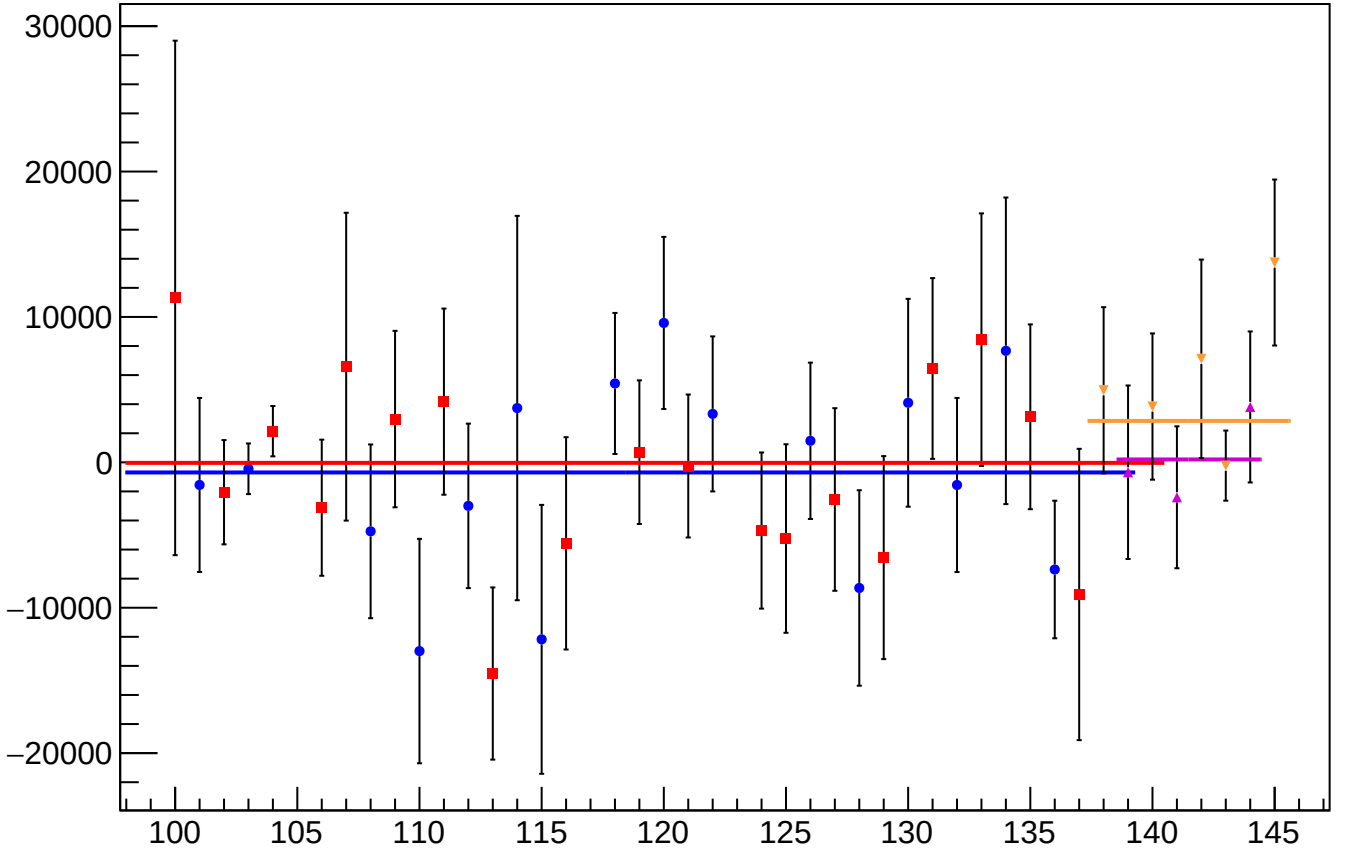
Right: 1312.114+/-0.247 $\chi^2$/NDF: 842591.1/34

In: 1320.339+/-0.301 $\chi^2$/NDF:524197.9/18

Out: 1350.069+/-0.291 $\chi^2$/NDF:448120.5/23

All: 1335.721+/-0.209 $\chi^2$/NDF: 977348.9/42

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: 2849.684+/-1843.155 $\chi^2$/NDF:5.8/4

Right Out: -36.115+/-1098.207 $\chi^2$/NDF: 15.9/18

Left In: 198.363+/-3054.906 $\chi^2$/NDF:0.8/2

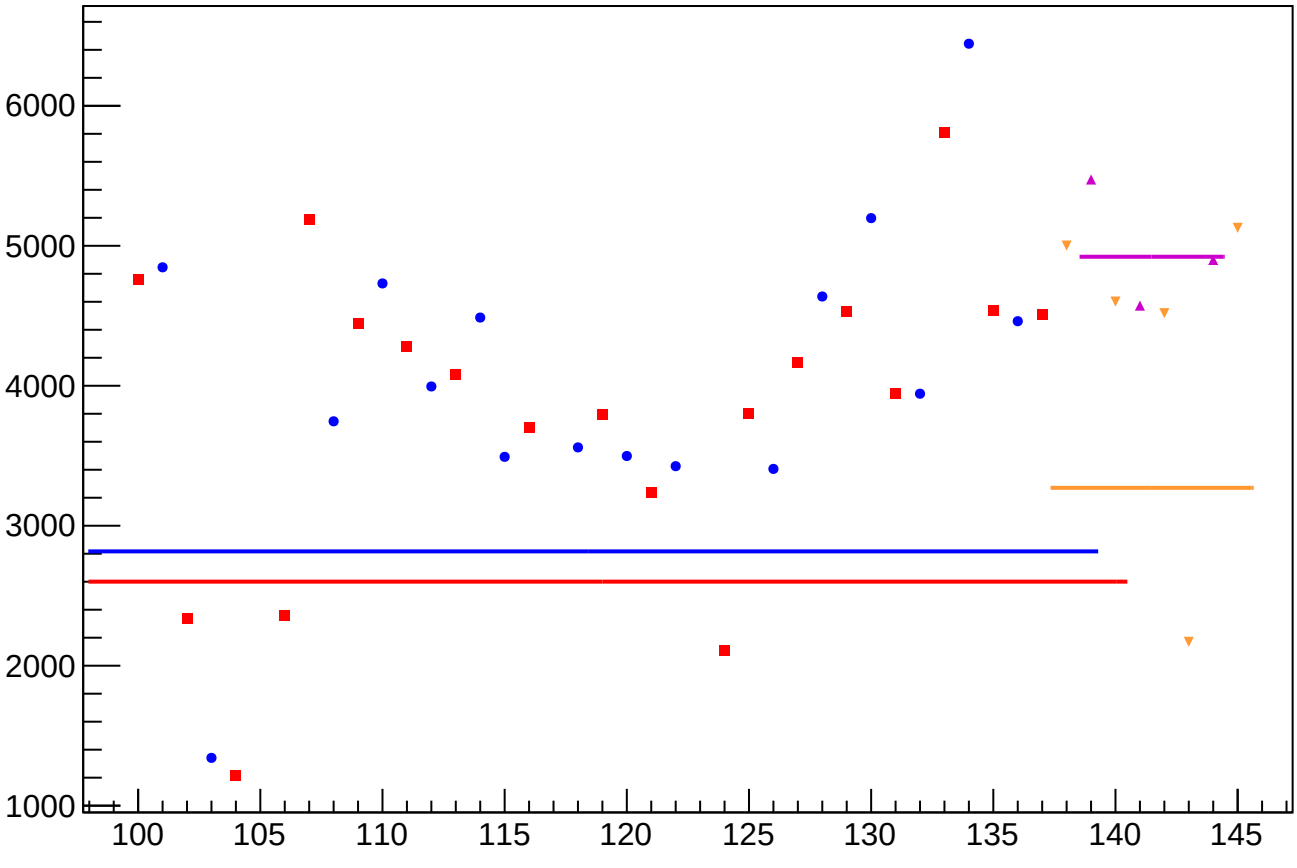
Left: 2142.115+/-1578.160 $\chi^2$/NDF: 7.2/7

Right: -341.373+/-804.680 $\chi^2$/NDF: 30.8/34

In: -578.816+/-1102.713 $\chi^2$/NDF:15.5/18

Out: 719.964+/-943.436 $\chi^2$/NDF:23.6/23

All: 171.065+/-716.871 $\chi^2$/NDF: 39.9/42




Right In: 2816.784+/-0.836 $\chi^2$/NDF: 3007570.0/15

Left Out: 3270.924+/-1.303 $\chi^2$/NDF:1018537.4/4

Right Out: 2600.524+/-0.777 $\chi^2$/NDF: 3080771.9/18

Left In: 4921.785+/-2.160 $\chi^2$/NDF:27390.9/2

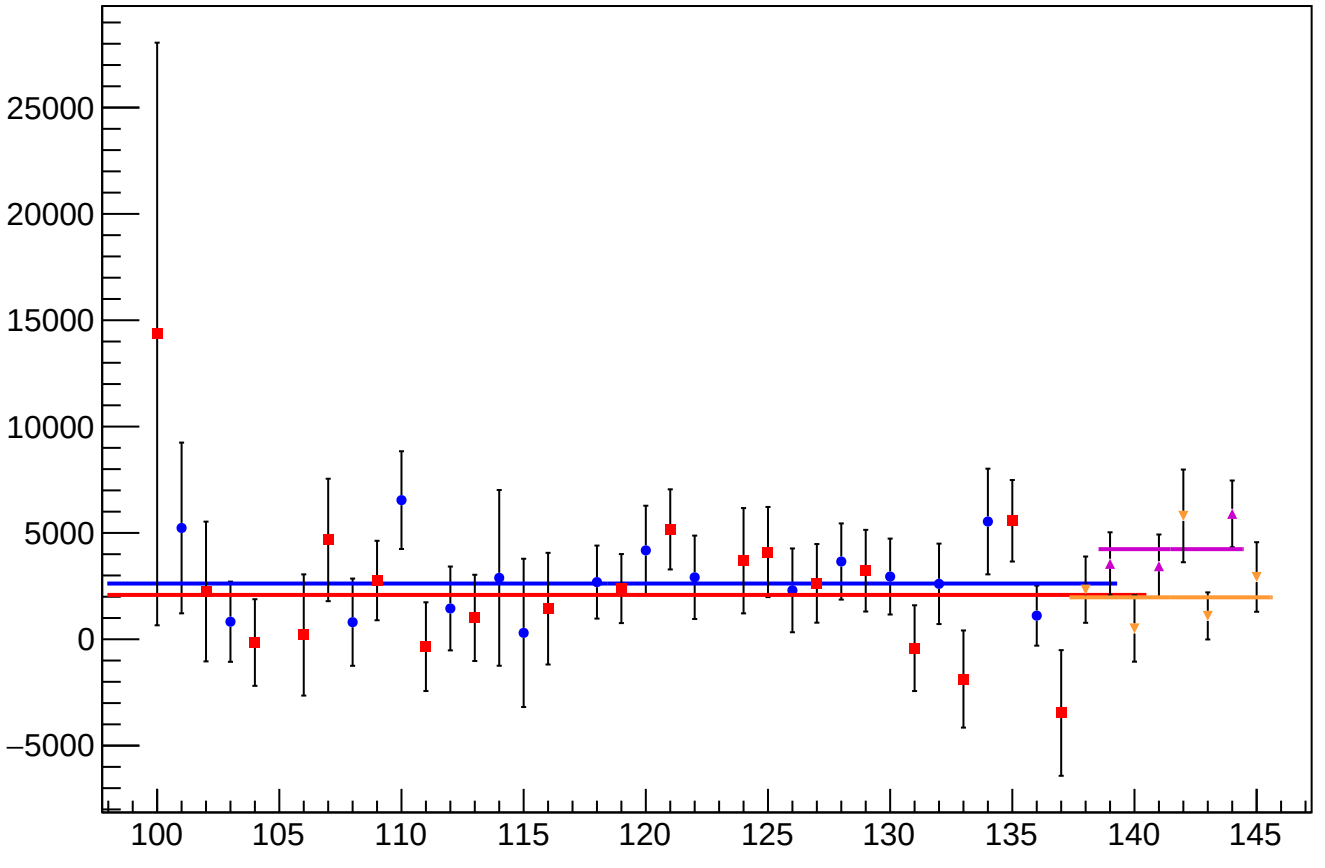
Left: 3711.497+/-1.116 $\chi^2$/NDF: 1474115.2/7

Right: 2700.678+/-0.569 $\chi^2$/NDF: 6124259.3/34

In: 3091.056+/-0.780 $\chi^2$/NDF:3860829.1/18

Out: 2776.169+/-0.667 $\chi^2$/NDF:4294577.2/23

All: 2909.248+/-0.507 $\chi^2$/NDF: 8249567.2/42




Right In: 2620.535+/-511.510 $\chi^2$/NDF: 9.3/15

Left Out: 1972.326+/-670.905 $\chi^2$/NDF:5.0/4

Right Out: 2085.606+/-504.873 $\chi^2$/NDF: 20.9/18

Left In: 4237.584+/-872.681 $\chi^2$/NDF:1.6/2

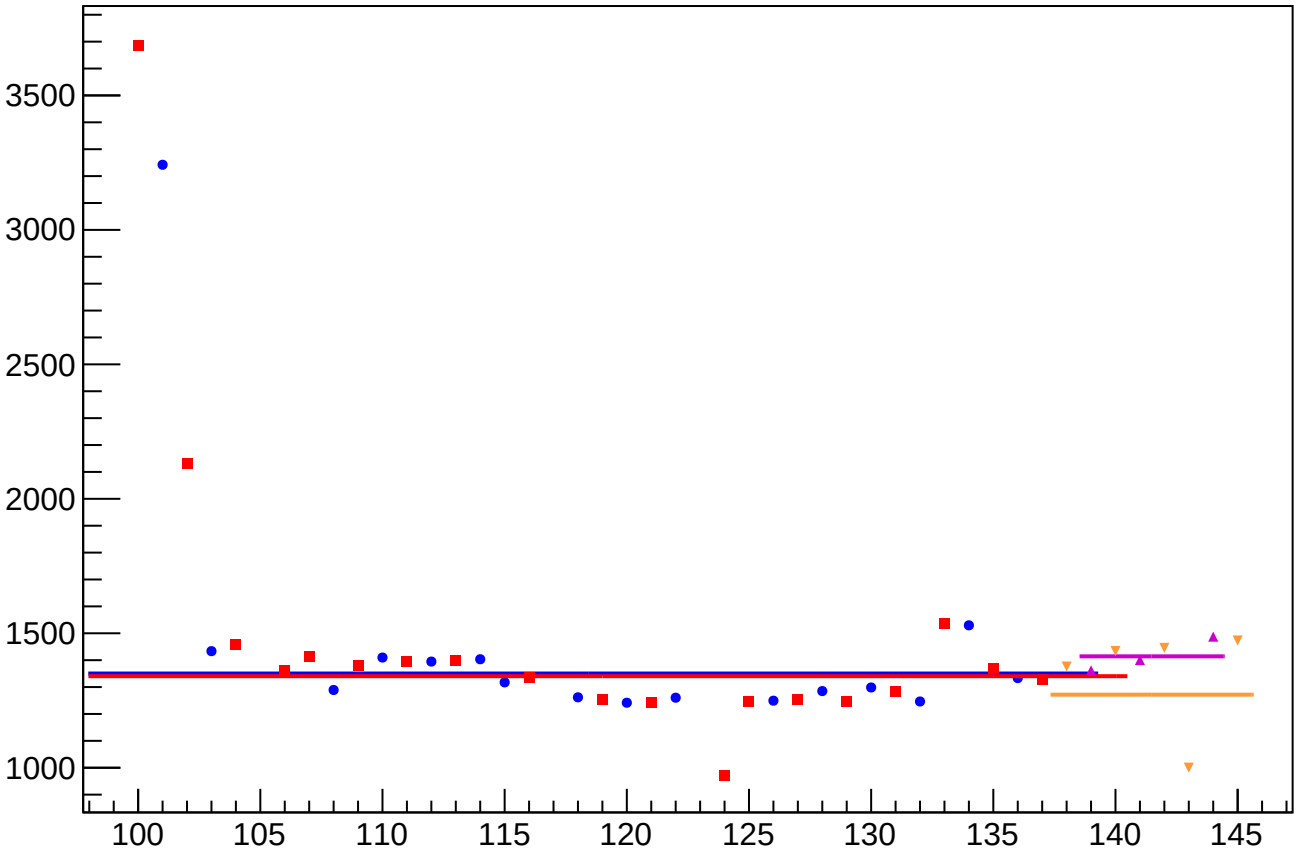
Left: 2813.817+/-531.890 $\chi^2$/NDF: 10.8/7

Right: 2349.577+/-359.323 $\chi^2$/NDF: 30.8/34

In: 3034.024+/-441.292 $\chi^2$/NDF:13.5/18

Out: 2044.650+/-403.409 $\chi^2$/NDF:26.0/23

All: 2495.054+/-297.747 $\chi^2$/NDF: 42.2/42




Right In: 1350.369+/-0.362 $\chi^2$/NDF: 494051.1/15

Left Out: 1271.784+/-0.474 $\chi^2$/NDF:193903.7/4

Right Out: 1340.429+/-0.357 $\chi^2$/NDF: 272183.5/18

Left In: 1414.247+/-0.617 $\chi^2$/NDF:7002.9/2

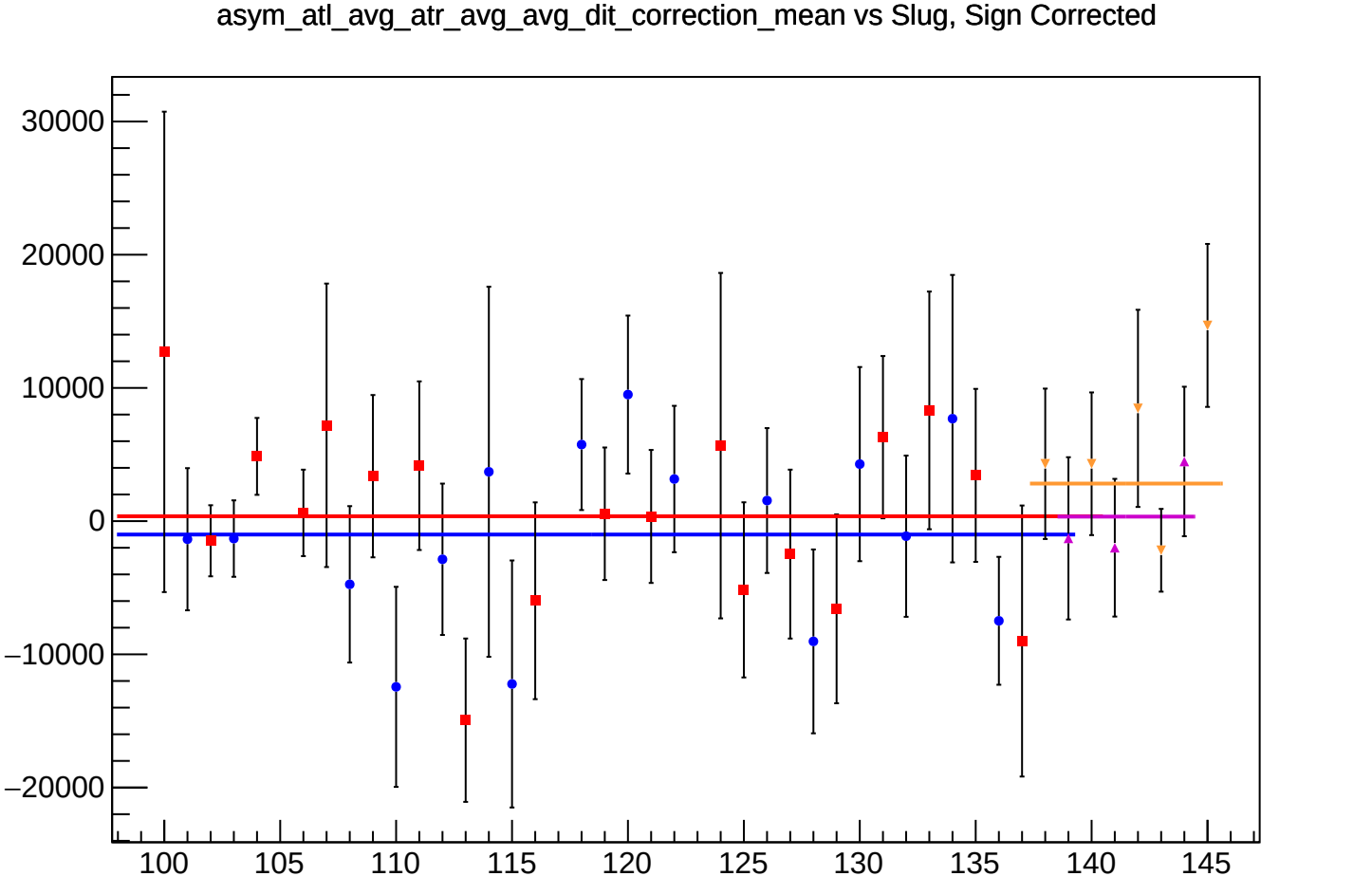
Left: 1324.705+/-0.376 $\chi^2$/NDF: 234406.5/7

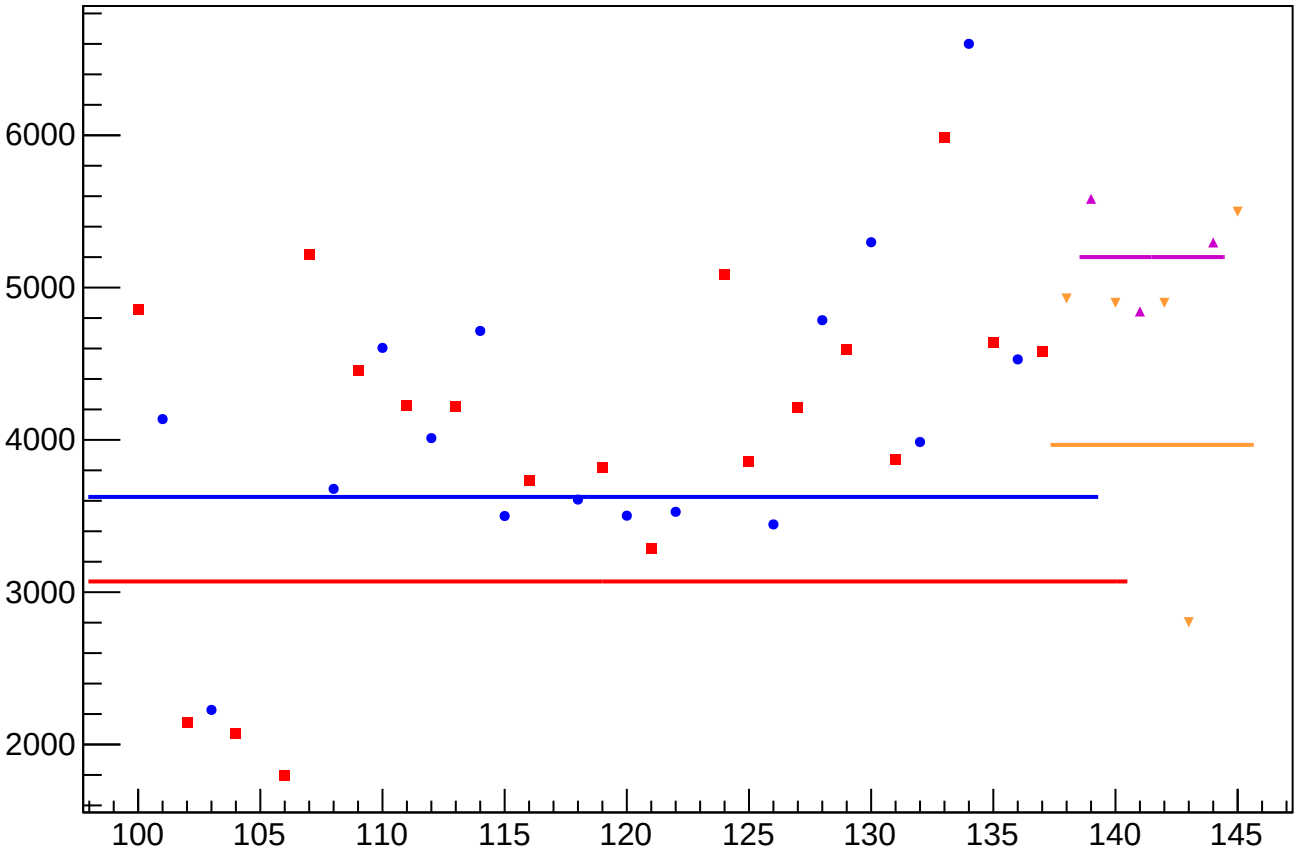
Right: 1345.331+/-0.254 $\chi^2$/NDF: 766617.4/34

In: 1366.703+/-0.312 $\chi^2$/NDF:509029.4/18

Out: 1315.630+/-0.285 $\chi^2$/NDF:479460.8/23

All: 1338.870+/-0.210 $\chi^2$/NDF: 1003089.3/42


asym_atl_avg_atr_avg_avg_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -1006.752+/-1404.458 χ²/NDF: 14.6/15
Left Out: 2819.293+/-2157.696 χ²/NDF:7.1/4
Right Out: 364.493+/-1202.498 χ²/NDF: 16.2/18
Left In: 338.516+/-3224.993 χ²/NDF:0.8/2
Left: 2052.193+/-1793.332 χ²/NDF: 8.3/7
Right: -215.533+/-913.430 χ²/NDF: 31.4/34
In: -792.290+/-1287.652 χ²/NDF:15.6/18
Out: 946.245+/-1050.391 χ²/NDF:24.3/23
All: 251.603+/-813.930 χ²/NDF: 41.0/42




Right In: 3625.512+/-0.993 $\chi^2$/NDF: 944905.4/15

Left Out: 3967.098+/-1.526 $\chi^2$/NDF:556480.1/4

Right Out: 3070.442+/-0.850 $\chi^2$/NDF: 1838659.1/18

Left In: 5200.424+/-2.280 $\chi^2$/NDF:18015.5/2

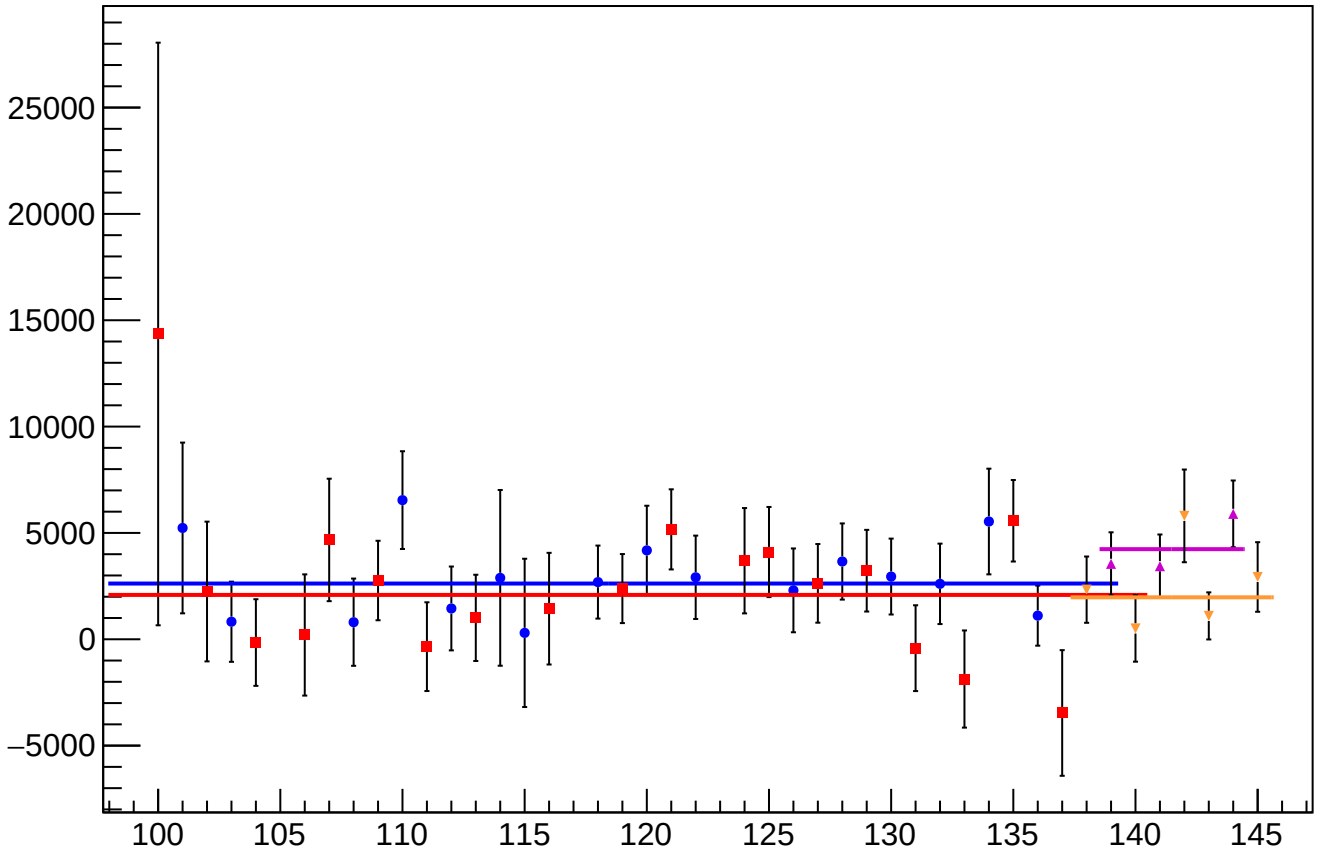
Left: 4348.465+/-1.268 $\chi^2$/NDF: 776550.6/7

Right: 3305.233+/-0.646 $\chi^2$/NDF: 2963820.1/34

In: 3876.583+/-0.911 $\chi^2$/NDF:1363847.6/18

Out: 3282.937+/-0.743 $\chi^2$/NDF:2658671.9/23

All: 3520.131+/-0.576 $\chi^2$/NDF: 4277766.6/42




Right In: 2620.535+/-511.510 $\chi^2$/NDF: 9.3/15

Left Out: 1972.334+/-670.905 $\chi^2$/NDF:5.0/4

Right Out: 2085.608+/-504.873 $\chi^2$/NDF: 20.9/18

Left In: 4237.577+/-872.682 $\chi^2$/NDF:1.6/2

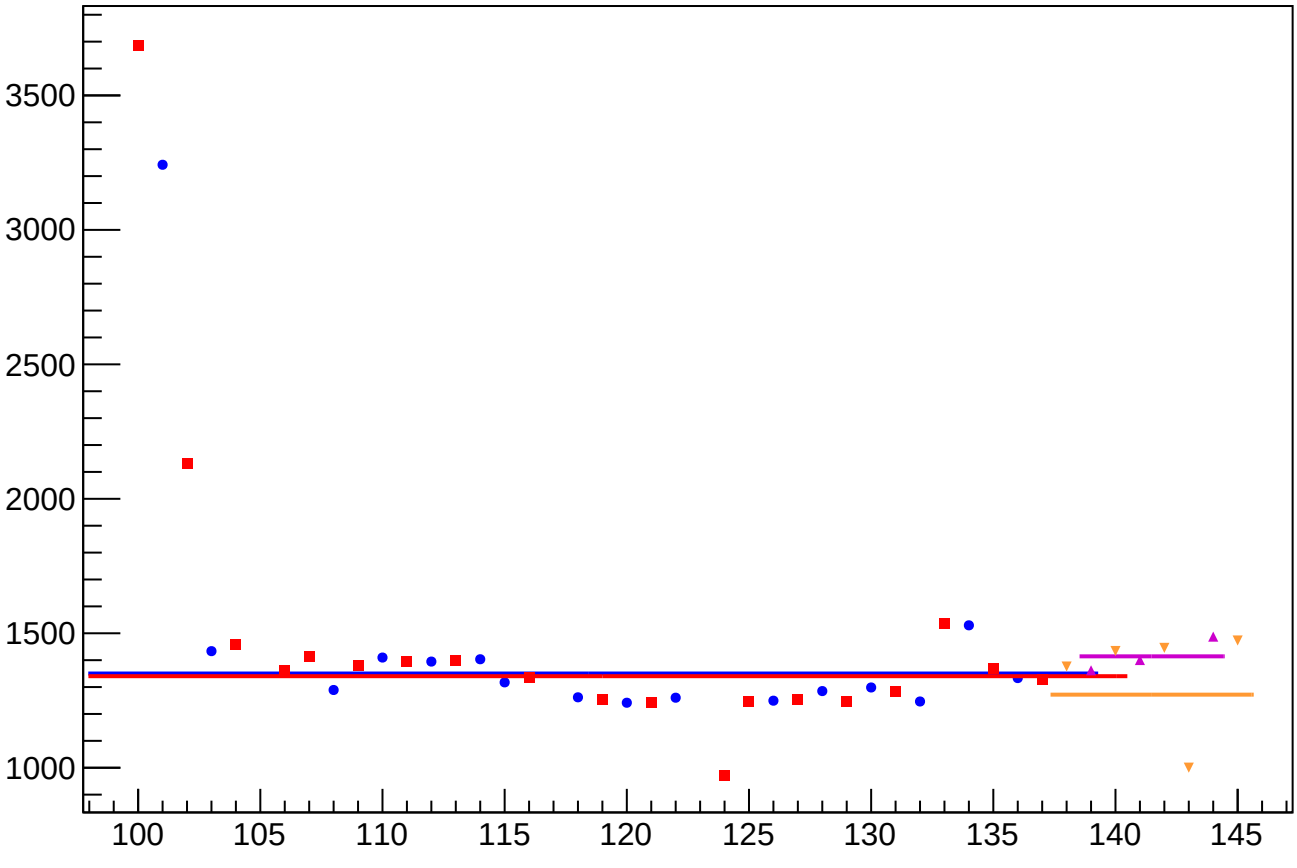
Left: 2813.819+/-531.890 $\chi^2$/NDF: 10.8/7

Right: 2349.579+/-359.323 $\chi^2$/NDF: 30.8/34

In: 3034.022+/-441.292 $\chi^2$/NDF:13.5/18

Out: 2044.654+/-403.409 $\chi^2$/NDF:26.0/23

All: 2495.055+/-297.747 $\chi^2$/NDF: 42.2/42




Right In: 1350.369+/-0.362 $\chi^2$/NDF: 494051.2/15

Left Out: 1271.785+/-0.474 $\chi^2$/NDF:193903.9/4

Right Out: 1340.428+/-0.357 $\chi^2$/NDF: 272182.5/18

Left In: 1414.248+/-0.617 $\chi^2$/NDF:7003.0/2

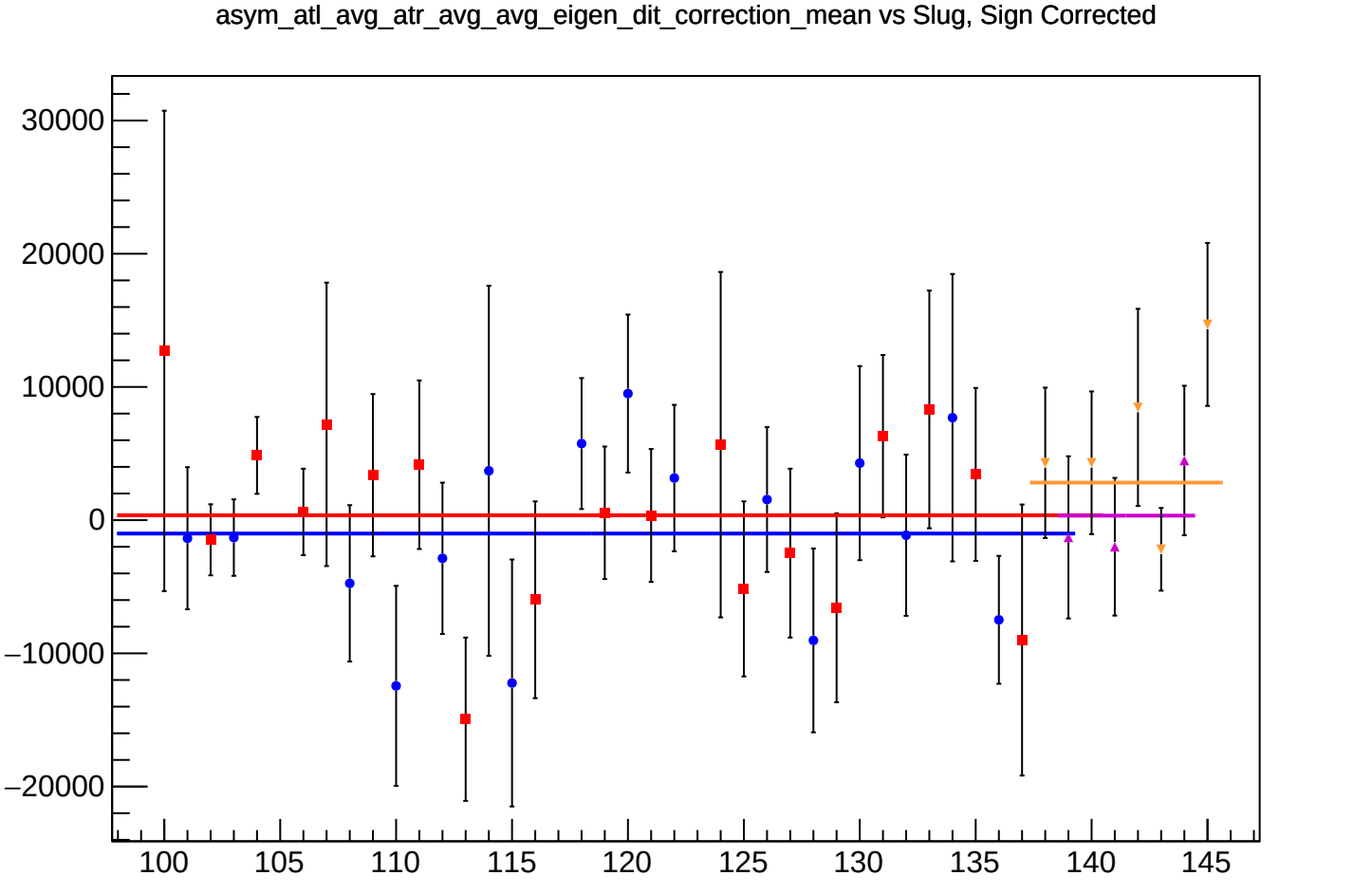
Left: 1324.706+/-0.376 $\chi^2$/NDF: 234406.9/7

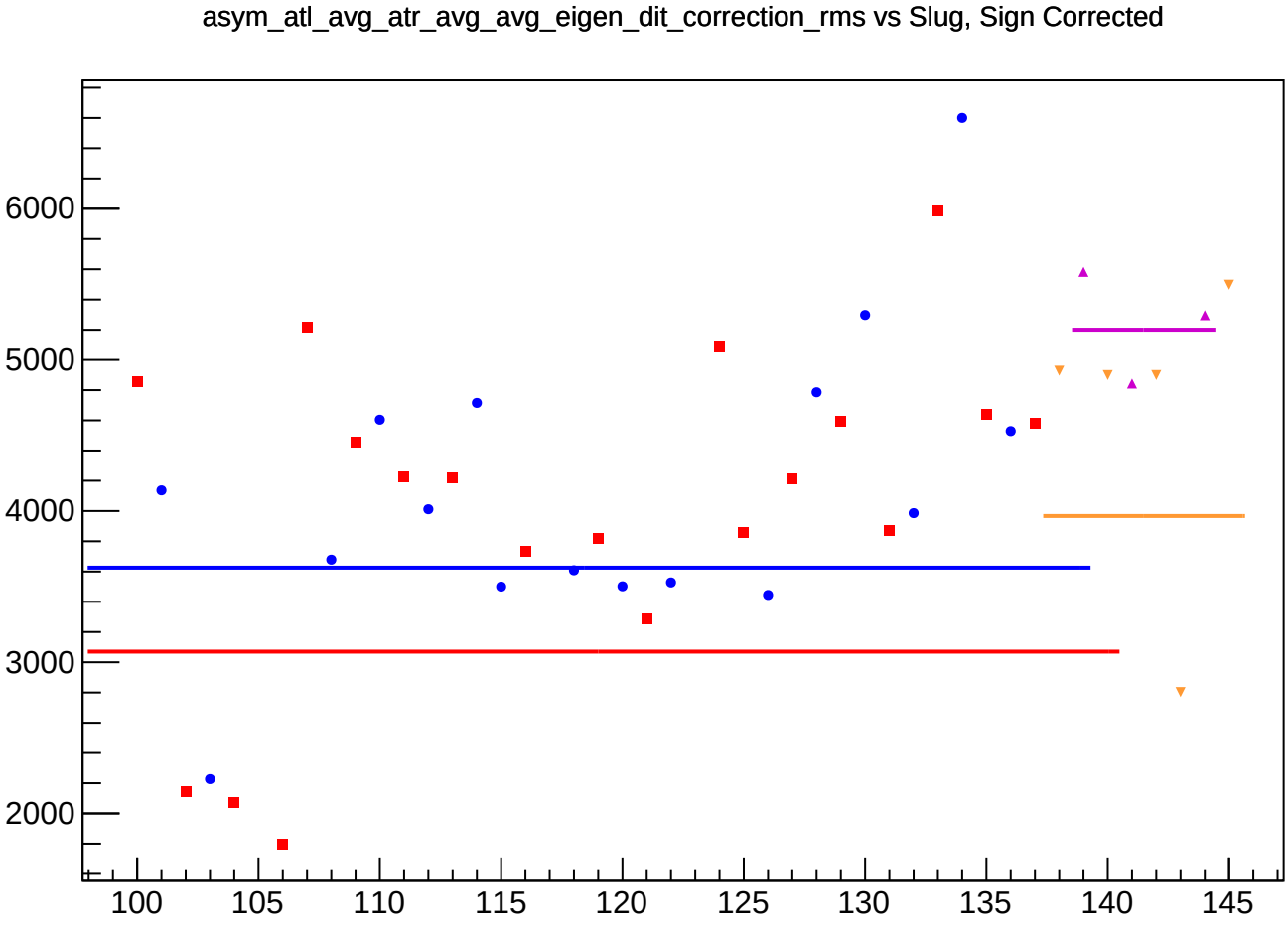
Right: 1345.330+/-0.254 $\chi^2$/NDF: 766616.6/34

In: 1366.703+/-0.312 $\chi^2$/NDF:509030.1/18

Out: 1315.630+/-0.285 $\chi^2$/NDF:479459.5/23

All: 1338.870+/-0.210 $\chi^2$/NDF: 1003088.6/42


asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -1006.742+/-1404.455 χ²/NDF: 14.6/15
Left Out: 2819.297+/-2157.700 χ²/NDF:7.1/4
Right Out: 364.495+/-1202.495 χ²/NDF: 16.2/18
Left In: 338.511+/-3224.998 χ²/NDF:0.8/2
Left: 2052.194+/-1793.336 χ²/NDF: 8.3/7
Right: -215.528+/-913.428 χ²/NDF: 31.4/34
In: -792.285+/-1287.650 χ²/NDF:15.6/18
Out: 946.243+/-1050.389 χ²/NDF:24.3/23
All: 251.604+/-813.929 χ²/NDF: 41.0/42


asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected
6000
5000
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2000
100
105
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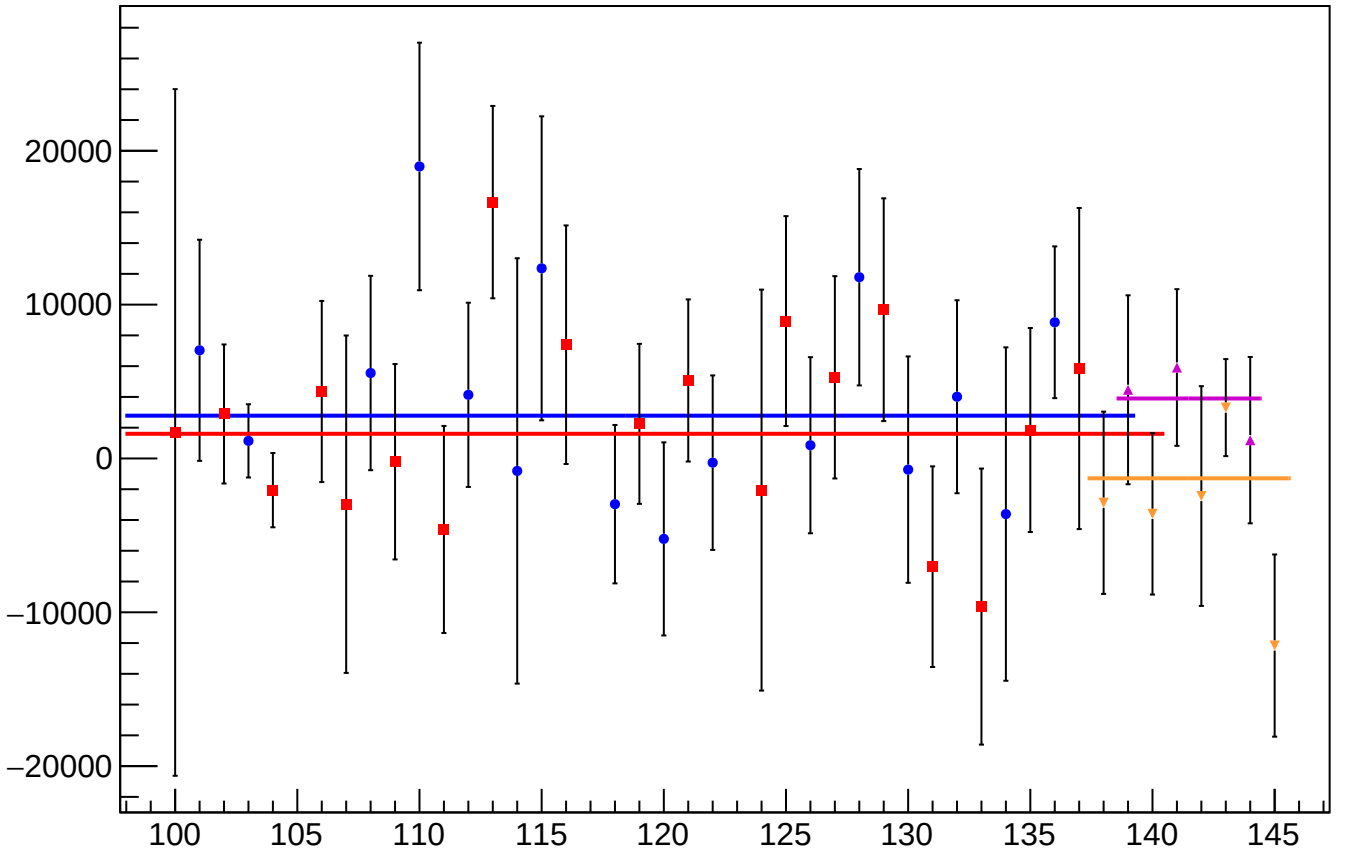
115
120
125
130
135
140
145
Right In: 3625.503+/-0.993 χ²/NDF: 944907.6/15
Left Out: 3967.106+/-1.526 χ²/NDF:556480.3/4
Right Out: 3070.434+/-0.850 χ²/NDF: 1838662.0/18
Left In: 5200.433+/-2.280 χ²/NDF:18015.9/2
Left: 4348.472+/-1.268 χ²/NDF: 776550.8/7
Right: 3305.224+/-0.646 χ²/NDF: 2963825.9/34
In: 3876.575+/-0.911 χ²/NDF:1363858.2/18
Out: 3282.930+/-0.743 χ²/NDF:2658683.9/23
All: 3520.124+/-0.576 χ²/NDF: 4277788.6/42




Right In: 2780.878+/-1389.439 $\chi^2$/NDF: 13.2/15

Left Out: -1290.777+/-2164.745 $\chi^2$/NDF:5.8/4

Right Out: 1602.626+/-1337.018 $\chi^2$/NDF: 16.8/18

Left In: 3899.076+/-3173.785 $\chi^2$/NDF:0.4/2

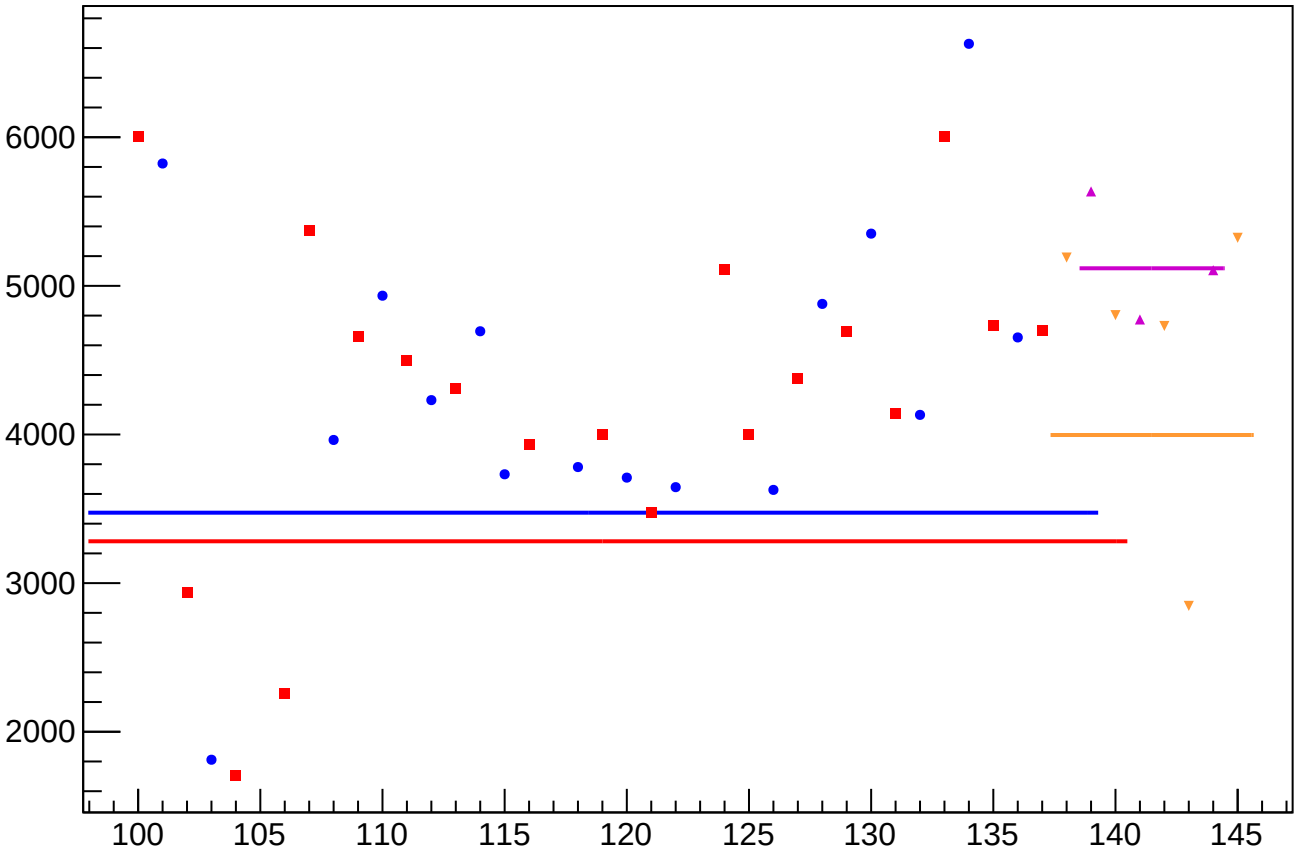
Left: 357.046+/-1788.361 $\chi^2$/NDF: 8.0/7

Right: 2169.106+/-963.414 $\chi^2$/NDF: 30.3/34

In: 2960.720+/-1272.811 $\chi^2$/NDF:13.7/18

Out: 803.660+/-1137.539 $\chi^2$/NDF:23.9/23

All: 1761.513+/-848.169 $\chi^2$/NDF: 39.2/42




Right In: 3473.898+/-0.982 $\chi^2$/NDF: 1843964.2/15

Left Out: 3996.578+/-1.531 $\chi^2$/NDF:515548.8/4

Right Out: 3281.478+/-0.932 $\chi^2$/NDF: 1875493.9/18

Left In: 5118.226+/-2.244 $\chi^2$/NDF:23339.9/2

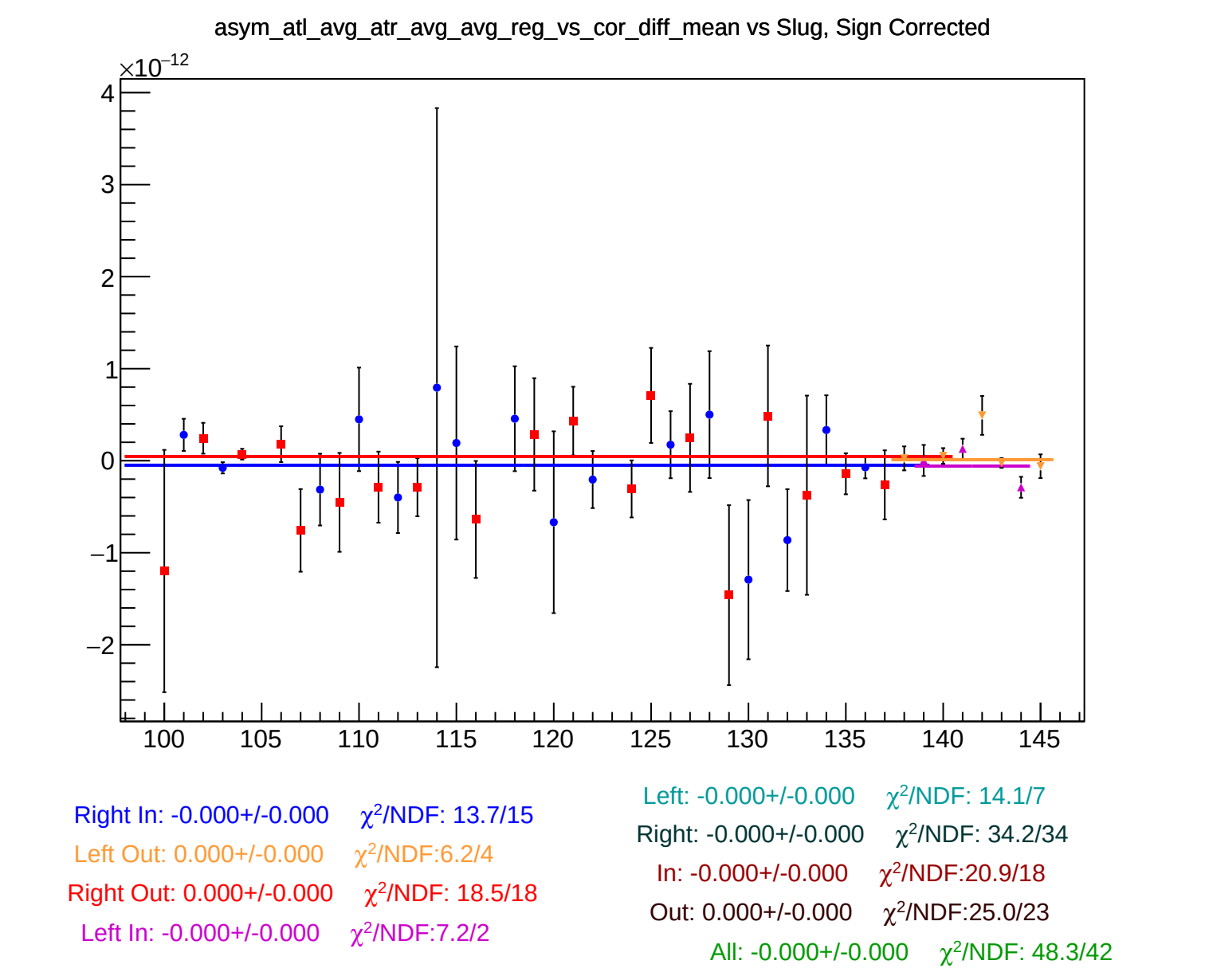
Left: 4352.711+/-1.265 $\chi^2$/NDF: 709373.3/7

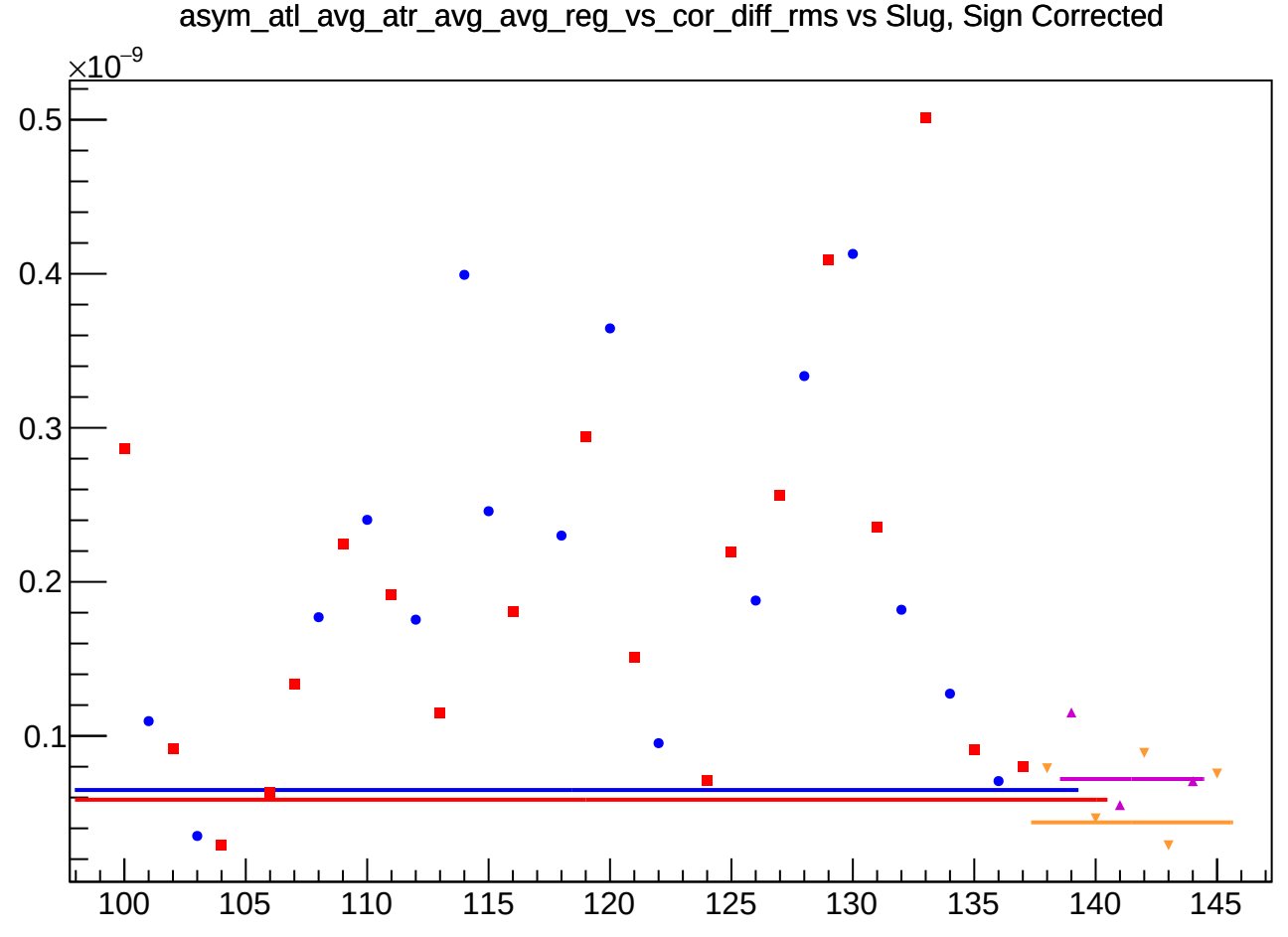
Right: 3372.669+/-0.676 $\chi^2$/NDF: 3739637.8/34

In: 3738.355+/-0.900 $\chi^2$/NDF:2317811.3/18

Out: 3475.032+/-0.796 $\chi^2$/NDF:2550218.3/23

All: 3590.664+/-0.596 $\chi^2$/NDF: 4916041.8/42


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
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 13.7/15
Left Out: 0.000+/-0.000 χ²/NDF:6.2/4
Right Out: 0.000+/-0.000 χ²/NDF: 18.5/18
Left In: -0.000+/-0.000 χ²/NDF:7.2/2
Left: -0.000+/-0.000 χ²/NDF: 14.1/7
Right: -0.000+/-0.000 χ²/NDF: 34.2/34
In: -0.000+/-0.000 χ²/NDF:20.9/18
Out: 0.000+/-0.000 χ²/NDF:25.0/23
All: -0.000+/-0.000 χ²/NDF: 48.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2592912.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:517460.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2855105.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:178749.3/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 933492.8/7

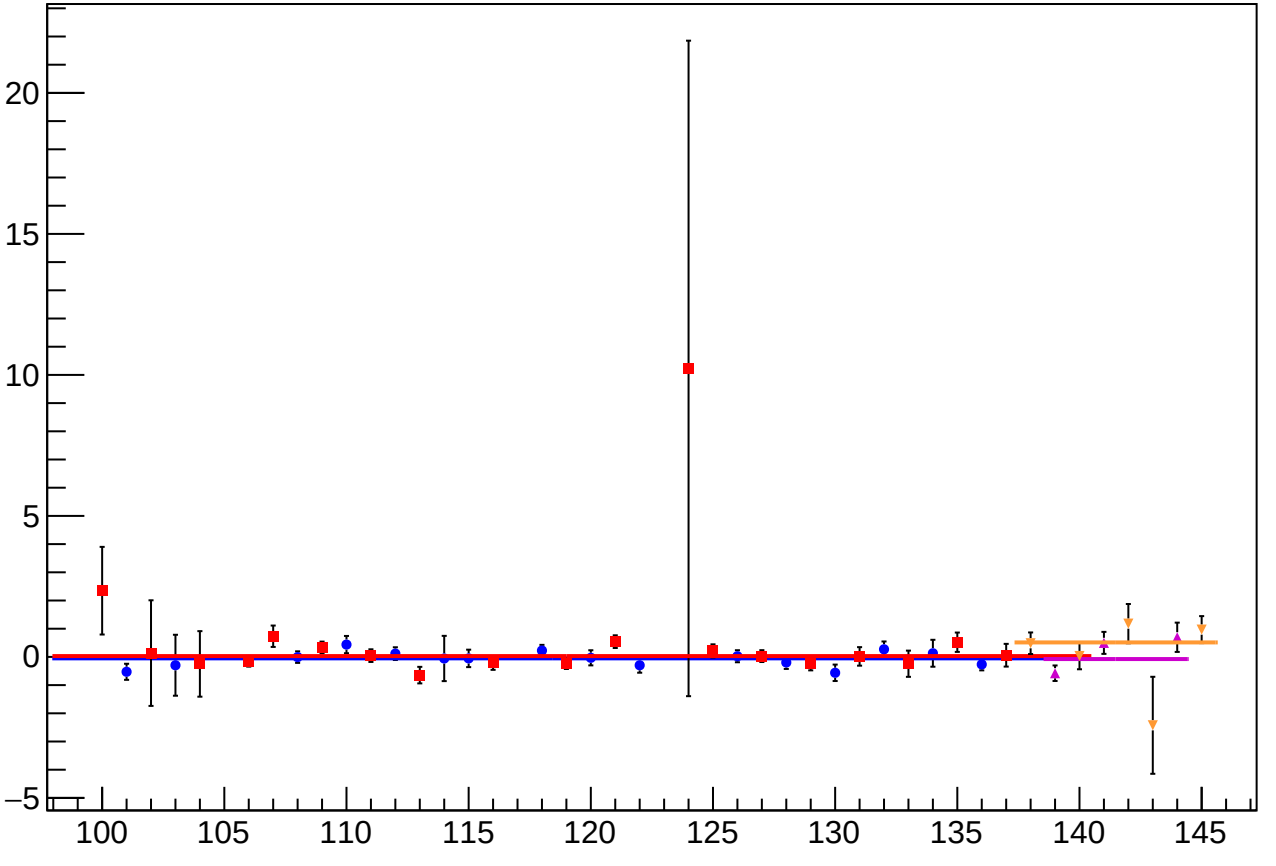
Right: 0.000+/-0.000 $\chi^2$/NDF: 5465312.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:2785294.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3485299.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6505019.9/42

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: 0.514+/-0.235 $\chi^2$/NDF:5.8/4

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.076+/-0.206 $\chi^2$/NDF:7.7/2

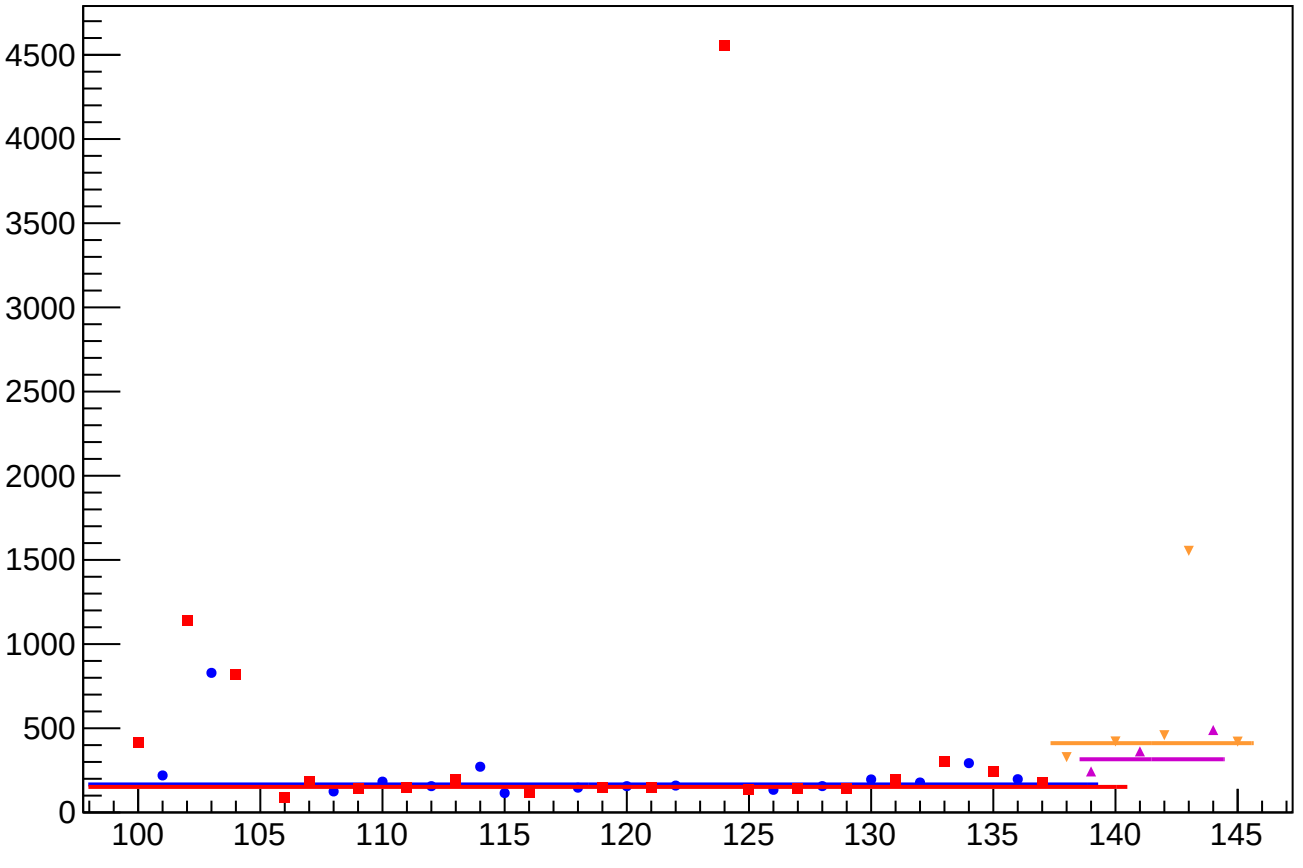
Left: 0.181+/-0.155 $\chi^2$/NDF: 17.1/7

Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.053+/-0.063 $\chi^2$/NDF:22.6/18

Out: 0.063+/-0.062 $\chi^2$/NDF:37.3/23

All: 0.006+/-0.044 $\chi^2$/NDF: 61.6/42




Right In: 166.360+/-0.047 $\chi^2$/NDF: 1282728.5/15

Left Out: 411.584+/-0.166 $\chi^2$/NDF:987573.4/4

Right Out: 151.791+/-0.045 $\chi^2$/NDF: 2315638.8/18

Left In: 315.933+/-0.146 $\chi^2$/NDF:390285.6/2

Left: 357.587+/-0.110 $\chi^2$/NDF: 1565084.1/7

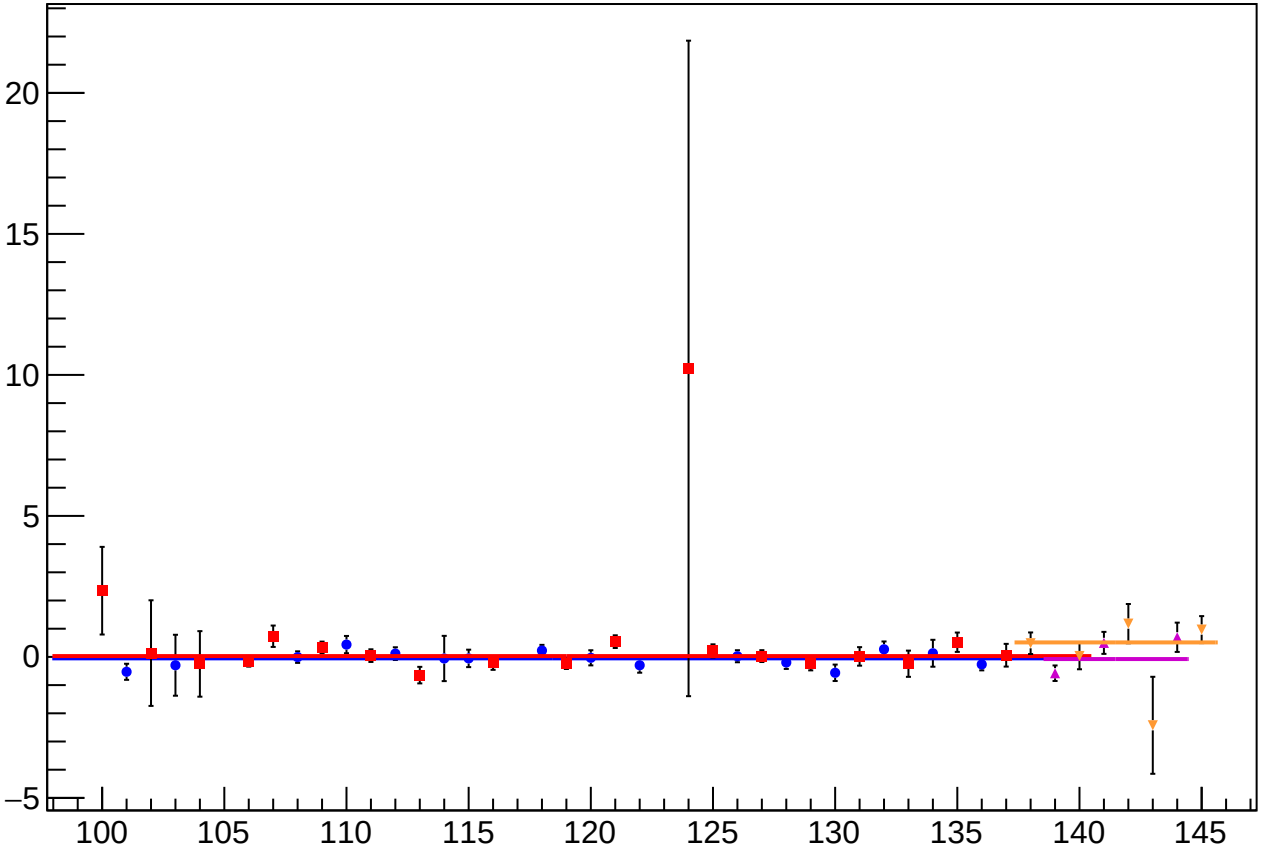
Right: 158.774+/-0.033 $\chi^2$/NDF: 3648009.6/34

In: 180.526+/-0.045 $\chi^2$/NDF:2624752.8/18

Out: 169.757+/-0.044 $\chi^2$/NDF:5580585.6/23

All: 174.994+/-0.031 $\chi^2$/NDF: 8234901.6/42

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: 0.514+/-0.235 $\chi^2$/NDF:5.8/4

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.076+/-0.206 $\chi^2$/NDF:7.7/2

Left: 0.181+/-0.155 $\chi^2$/NDF: 17.1/7

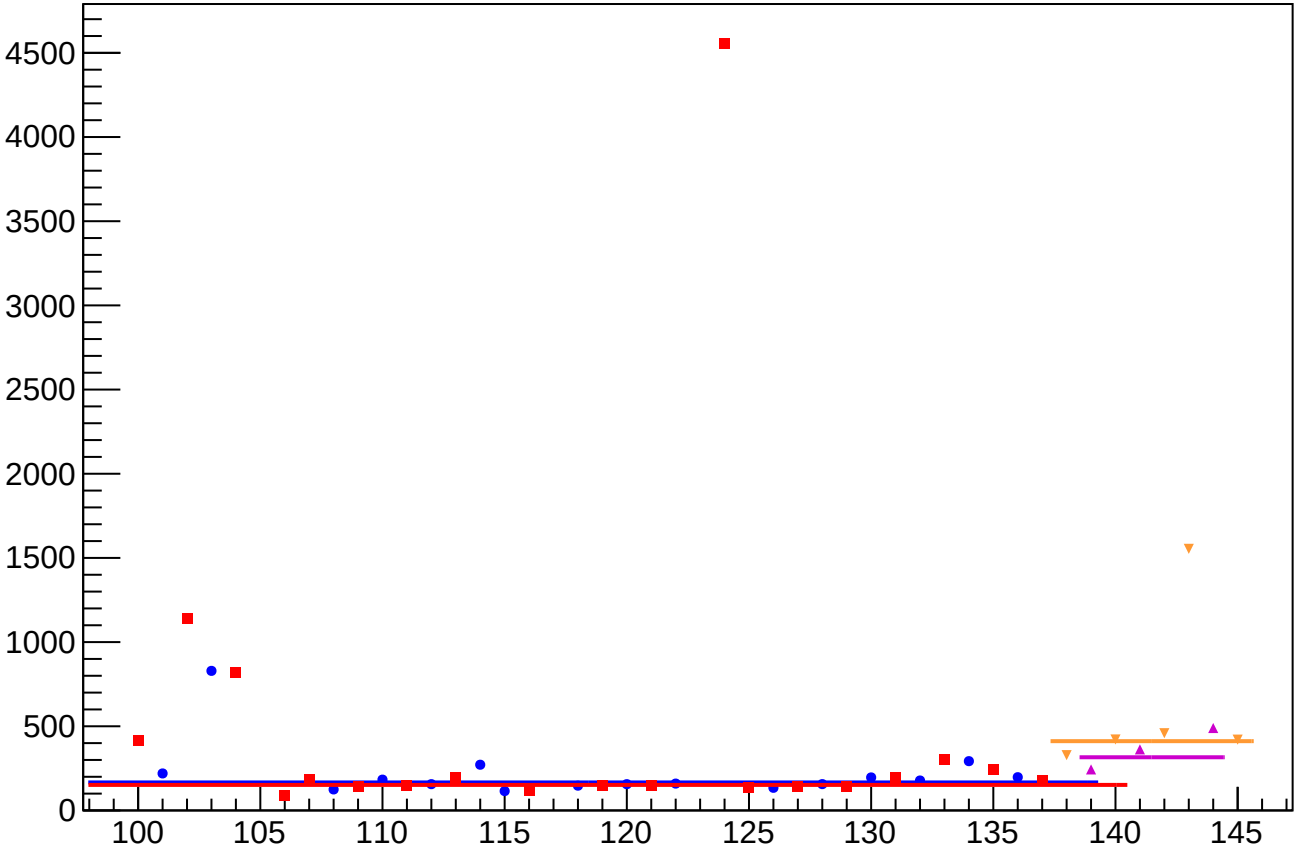
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.053+/-0.063 $\chi^2$/NDF:22.6/18

Out: 0.063+/-0.062 $\chi^2$/NDF:37.3/23

All: 0.006+/-0.044 $\chi^2$/NDF: 61.6/42

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: 411.584+/-0.166 $\chi^2$/NDF:987573.4/4

Right Out: 151.791+/-0.045 $\chi^2$/NDF: 2315638.8/18

Left In: 315.933+/-0.146 $\chi^2$/NDF:390285.6/2

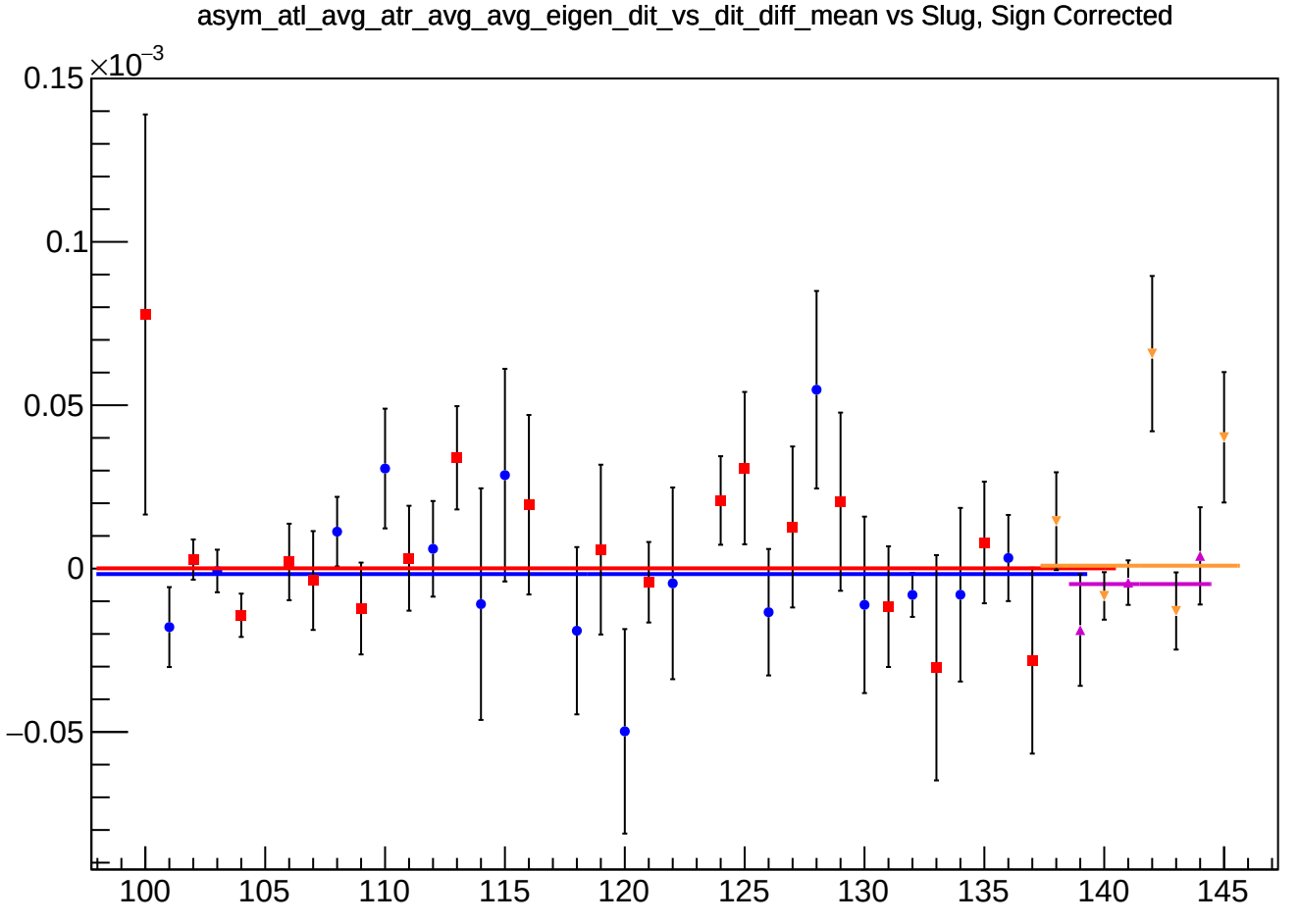
Left: 357.587+/-0.110 $\chi^2$/NDF: 1565084.1/7

Right: 158.774+/-0.033 $\chi^2$/NDF: 3648009.6/34

In: 180.526+/-0.045 $\chi^2$/NDF:2624752.8/18

Out: 169.757+/-0.044 $\chi^2$/NDF:5580585.6/23

All: 174.994+/-0.031 $\chi^2$/NDF: 8234901.6/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.0/2

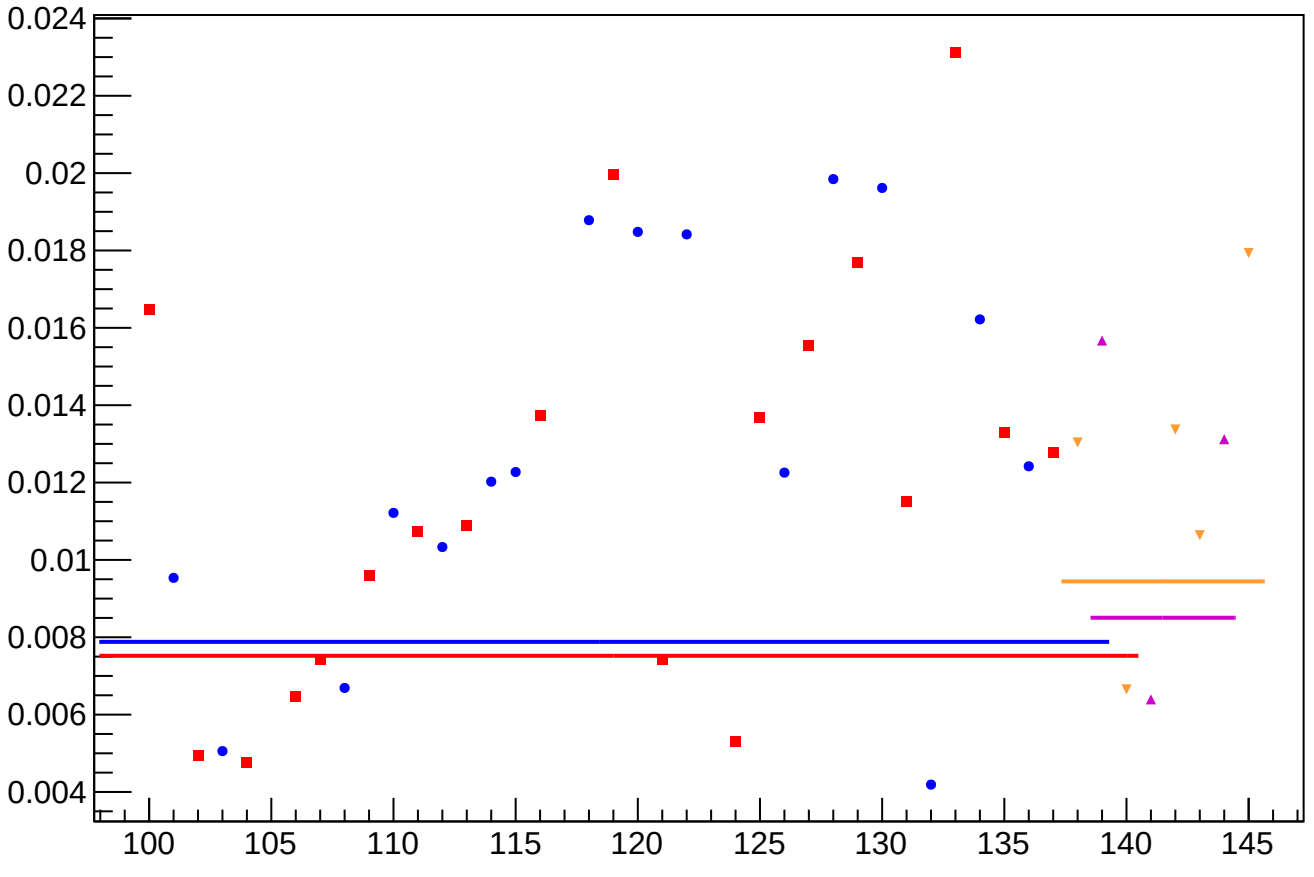
Left: -0.000+/-0.000 $\chi^2$/NDF: 16.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:35.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 52.3/42




Right In: 0.008+/-0.000 $\chi^2$/NDF: 3301734.3/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:847039.2/4

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 2975331.6/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:737199.1/2

Left: 0.009+/-0.000 $\chi^2$/NDF: 1612457.5/7

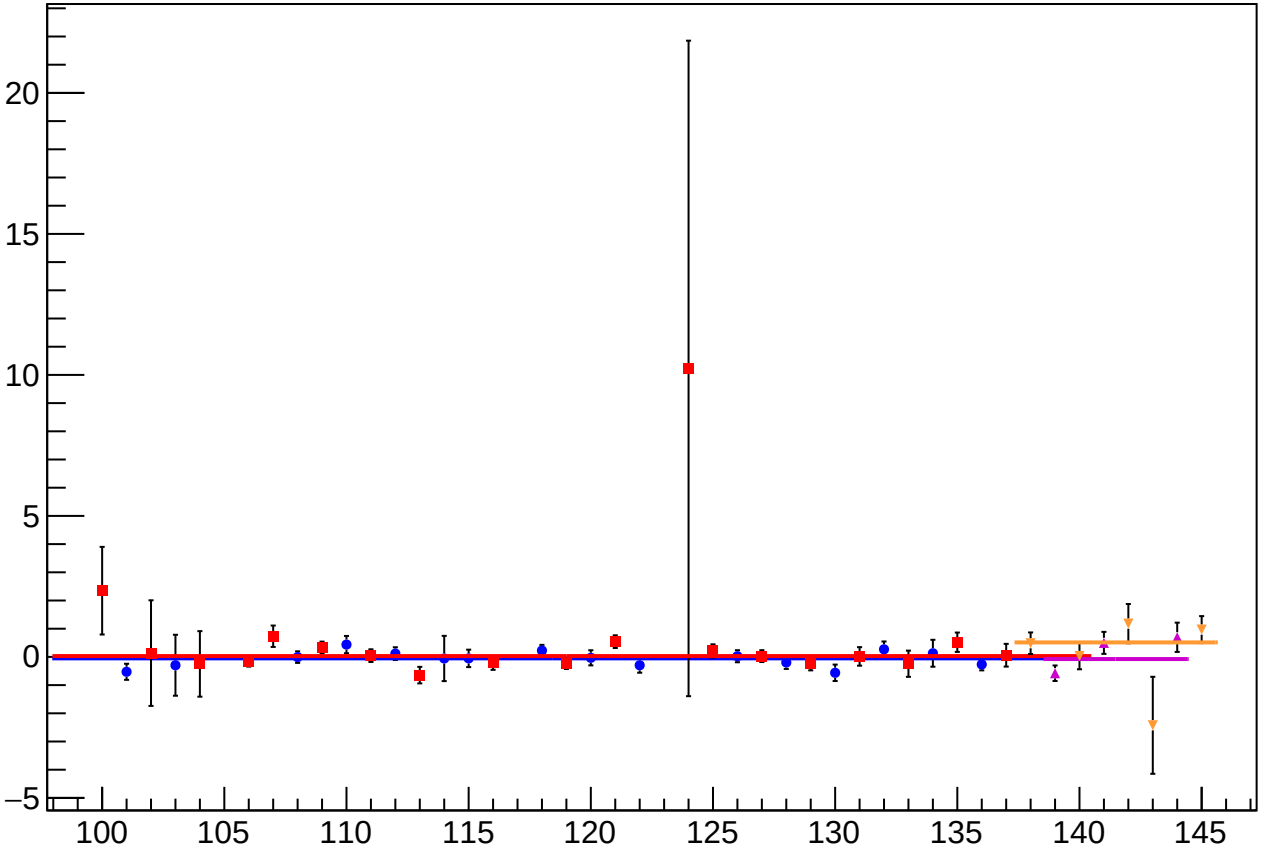
Right: 0.008+/-0.000 $\chi^2$/NDF: 6289175.2/34

In: 0.008+/-0.000 $\chi^2$/NDF:4056043.8/18

Out: 0.008+/-0.000 $\chi^2$/NDF:4014383.0/23

All: 0.008+/-0.000 $\chi^2$/NDF: 8070522.4/42

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: 0.514+/-0.235 $\chi^2$/NDF:5.8/4

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.076+/-0.206 $\chi^2$/NDF:7.7/2

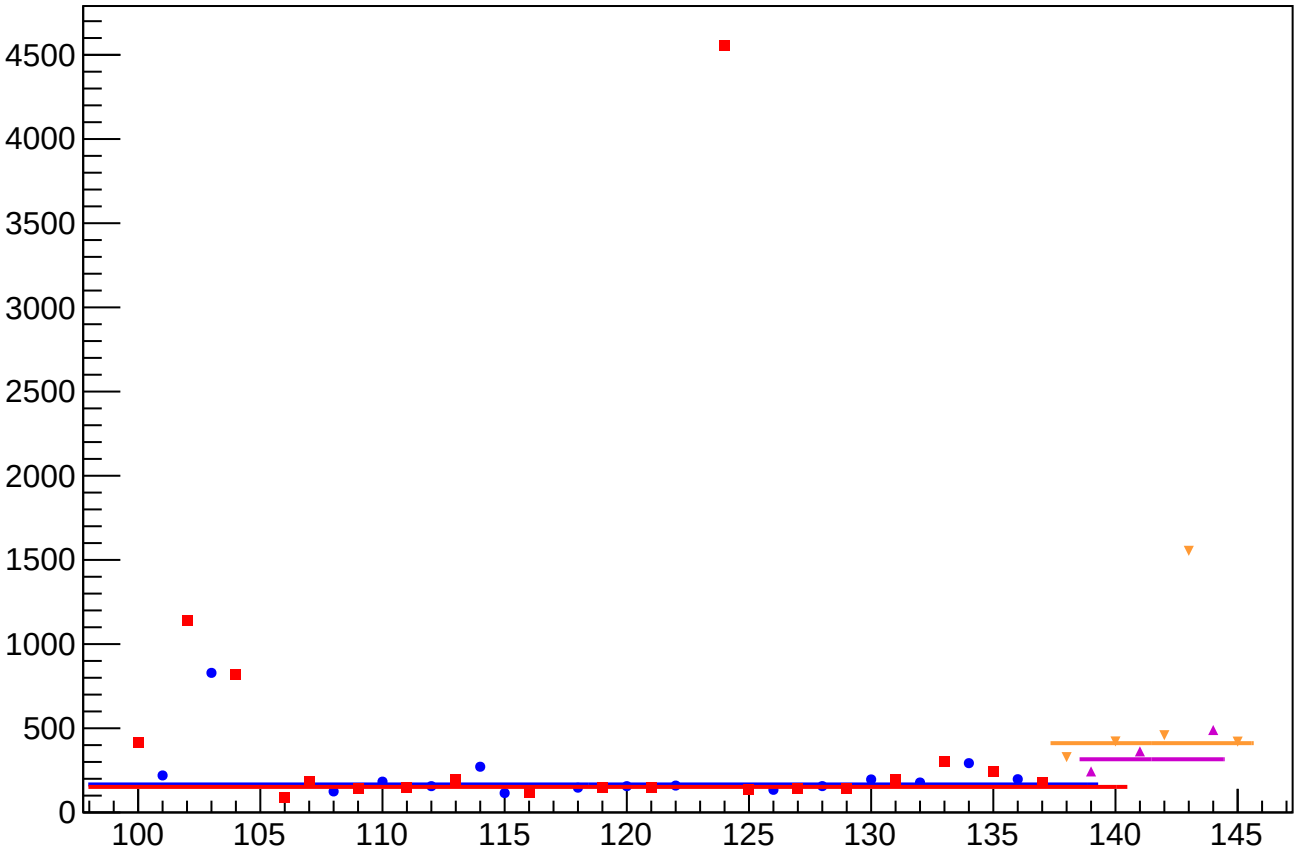
Left: 0.181+/-0.155 $\chi^2$/NDF: 17.1/7

Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.054+/-0.063 $\chi^2$/NDF:22.6/18

Out: 0.063+/-0.062 $\chi^2$/NDF:37.3/23

All: 0.006+/-0.044 $\chi^2$/NDF: 61.6/42




Right In: 166.359+/-0.047 $\chi^2$/NDF: 1282724.2/15

Left Out: 411.589+/-0.166 $\chi^2$/NDF:987568.8/4

Right Out: 151.790+/-0.045 $\chi^2$/NDF: 2315641.8/18

Left In: 315.939+/-0.146 $\chi^2$/NDF:390270.5/2

Left: 357.592+/-0.110 $\chi^2$/NDF: 1565054.7/7

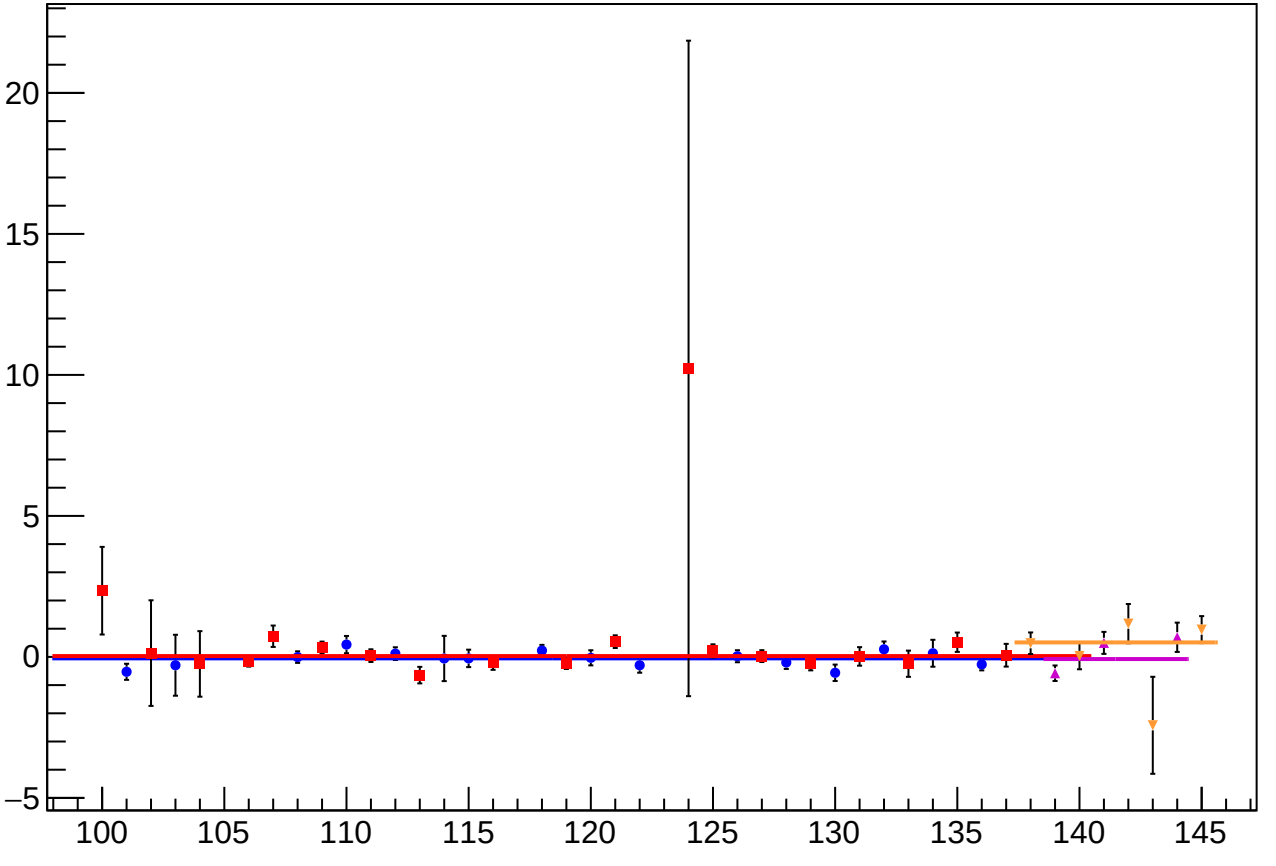
Right: 158.773+/-0.033 $\chi^2$/NDF: 3648012.6/34

In: 180.525+/-0.045 $\chi^2$/NDF:2624788.5/18

Out: 169.755+/-0.044 $\chi^2$/NDF:5580645.1/23

All: 174.992+/-0.031 $\chi^2$/NDF: 8235001.5/42

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: 0.514+/-0.235 $\chi^2$/NDF:5.8/4

Right Out: 0.029+/-0.064 $\chi^2$/NDF: 27.5/18

Left In: -0.076+/-0.206 $\chi^2$/NDF:7.7/2

Left: 0.181+/-0.155 $\chi^2$/NDF: 17.1/7

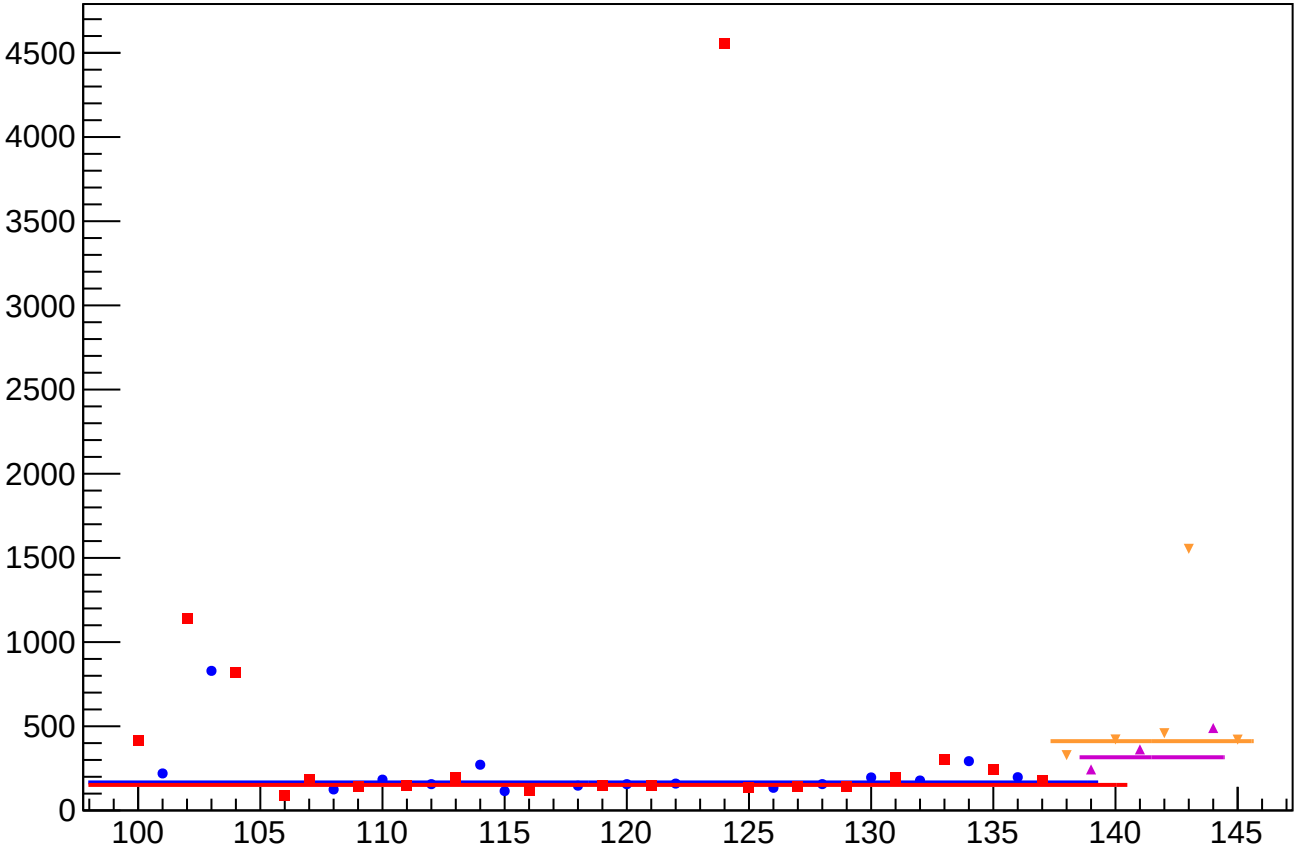
Right: -0.009+/-0.046 $\chi^2$/NDF: 43.2/34

In: -0.054+/-0.063 $\chi^2$/NDF:22.6/18

Out: 0.063+/-0.062 $\chi^2$/NDF:37.3/23

All: 0.006+/-0.044 $\chi^2$/NDF: 61.6/42

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: 411.589+/-0.166 $\chi^2$/NDF:987568.8/4

Right Out: 151.790+/-0.045 $\chi^2$/NDF: 2315641.8/18

Left In: 315.939+/-0.146 $\chi^2$/NDF:390270.5/2

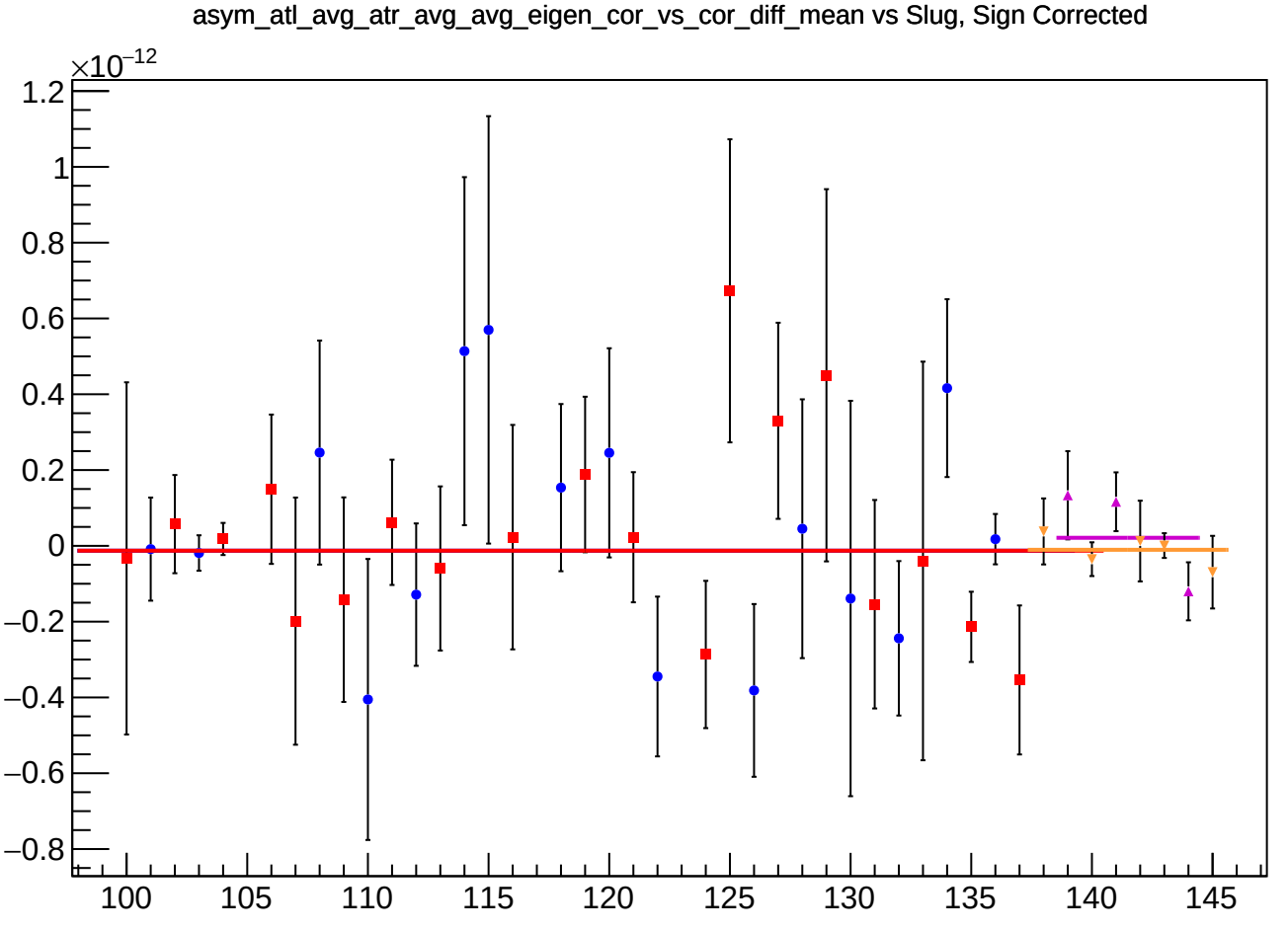
Left: 357.592+/-0.110 $\chi^2$/NDF: 1565054.7/7

Right: 158.773+/-0.033 $\chi^2$/NDF: 3648012.6/34

In: 180.525+/-0.045 $\chi^2$/NDF:2624788.5/18

Out: 169.755+/-0.044 $\chi^2$/NDF:5580645.1/23

All: 174.992+/-0.031 $\chi^2$/NDF: 8235001.5/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.8/2

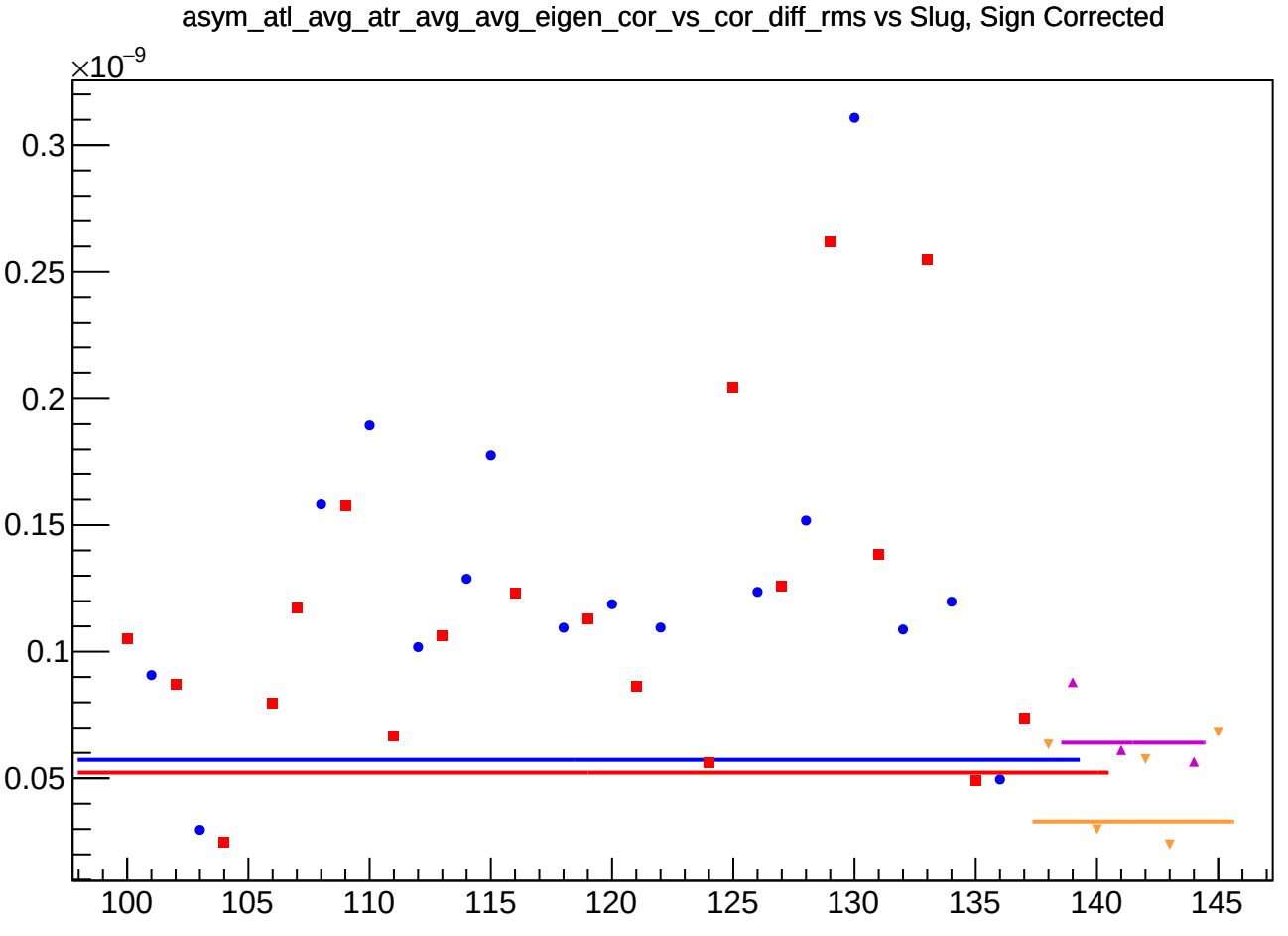
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.3/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 42.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2983121.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:785367.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3287828.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:106597.6/2

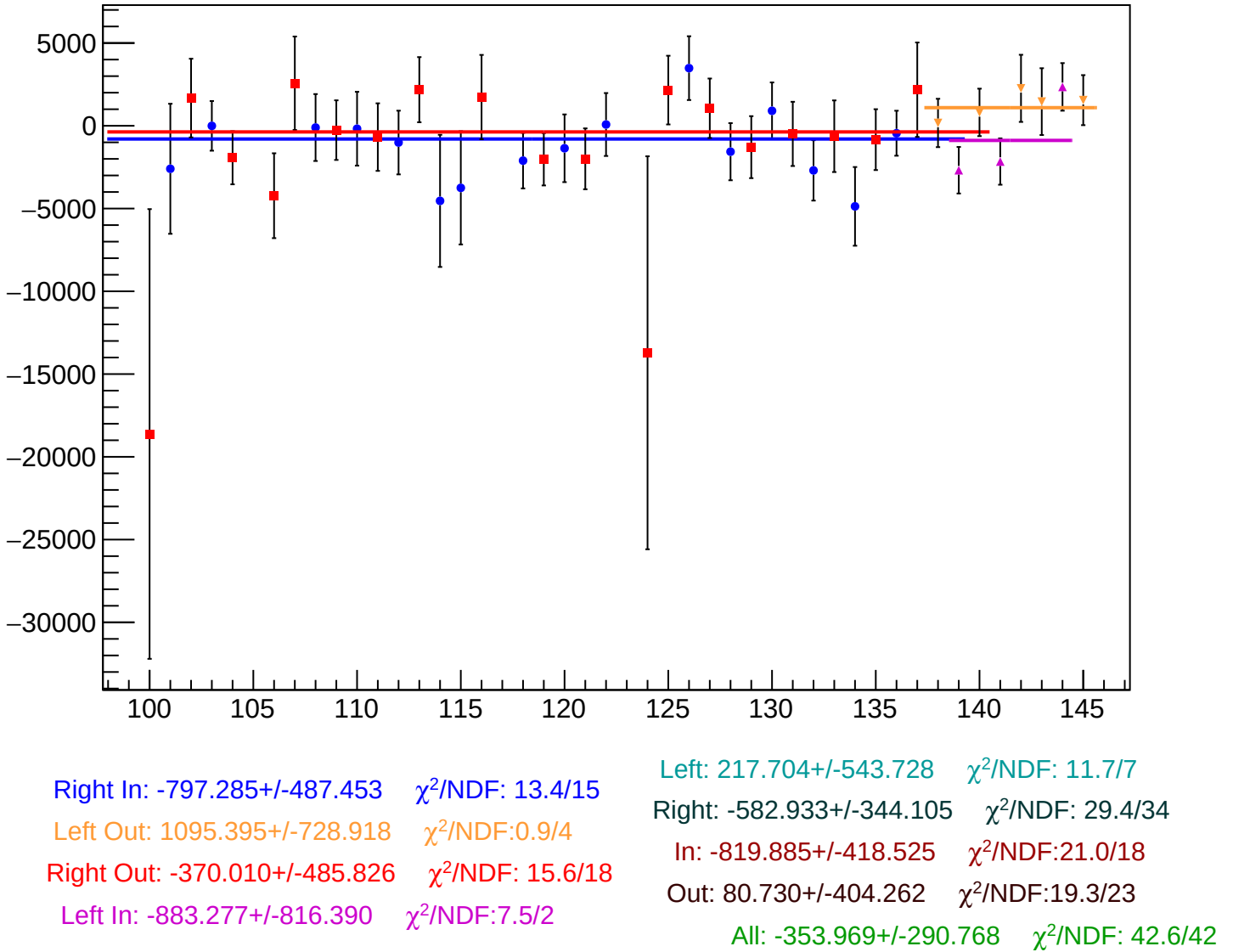
Left: 0.000+/-0.000 $\chi^2$/NDF: 1536043.1/7

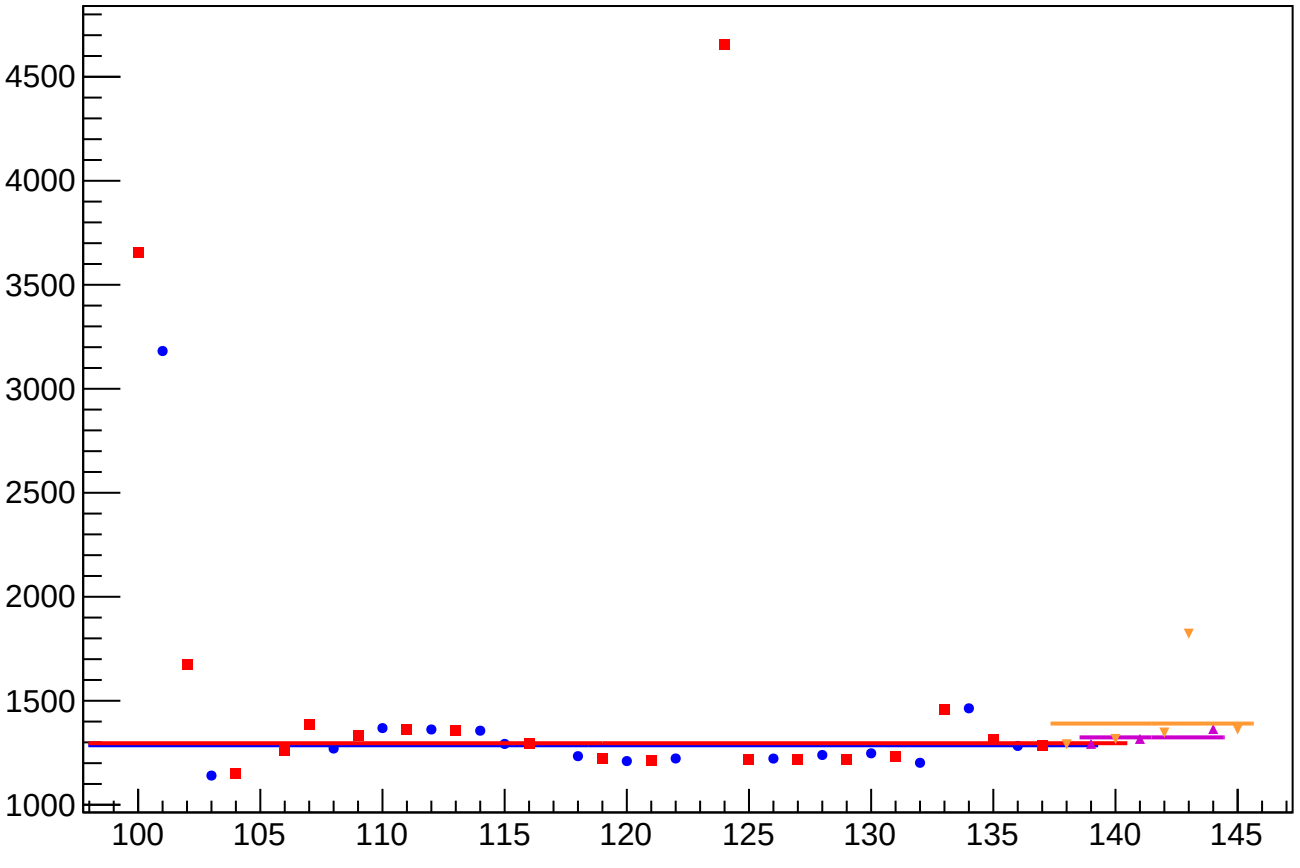
Right: 0.000+/-0.000 $\chi^2$/NDF: 6295515.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3115809.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4549711.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8344810.2/42


reg_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -797.285+/-487.453 χ²/NDF: 13.4/15
Left Out: 1095.395+/-728.918 χ²/NDF:0.9/4
Right Out: -370.010+/-485.826 χ²/NDF: 15.6/18
Left In: -883.277+/-816.390 χ²/NDF:7.5/2
Left: 217.704+/-543.728 χ²/NDF: 11.7/7
Right: -582.933+/-344.105 χ²/NDF: 29.4/34
In: -819.885+/-418.525 χ²/NDF:21.0/18
Out: 80.730+/-404.262 χ²/NDF:19.3/23
All: -353.969+/-290.768 χ²/NDF: 42.6/42




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518126.9/15

Left Out: 1390.491+/-0.515 $\chi^2$/NDF:108101.4/4

Right Out: 1295.943+/-0.344 $\chi^2$/NDF: 328069.9/18

Left In: 1324.049+/-0.577 $\chi^2$/NDF:2596.7/2

Left: 1361.019+/-0.384 $\chi^2$/NDF: 118069.1/7

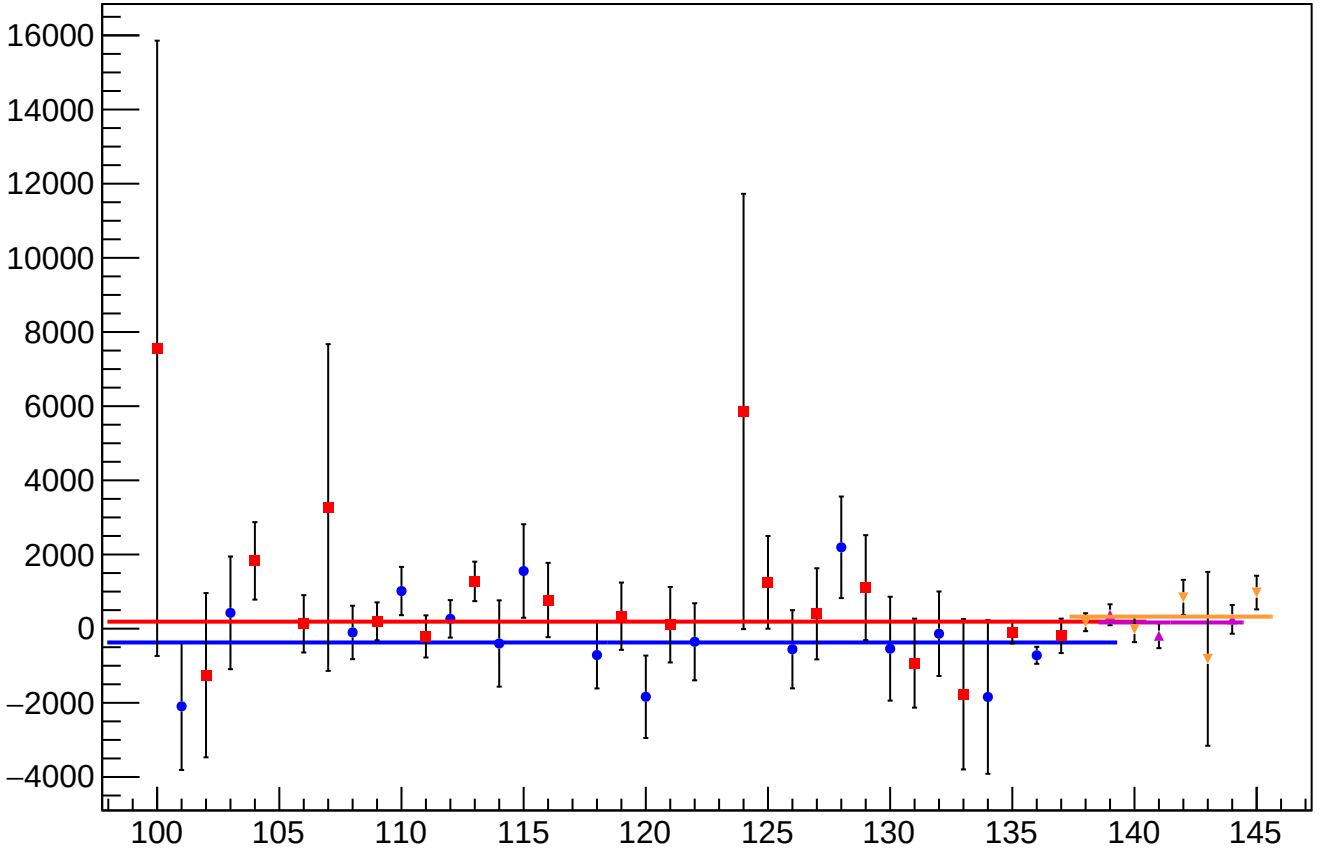
Right: 1291.036+/-0.243 $\chi^2$/NDF: 846606.2/34

In: 1296.071+/-0.296 $\chi^2$/NDF:523909.8/18

Out: 1325.024+/-0.286 $\chi^2$/NDF:459470.6/23

All: 1311.050+/-0.206 $\chi^2$/NDF: 988332.0/42

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: 324.322+/-169.811 $\chi^2$/NDF:4.8/4

Right Out: 188.945+/-169.575 $\chi^2$/NDF: 14.6/18

Left In: 167.222+/-188.596 $\chi^2$/NDF:1.7/2

Left: 253.984+/-126.195 $\chi^2$/NDF: 6.9/7

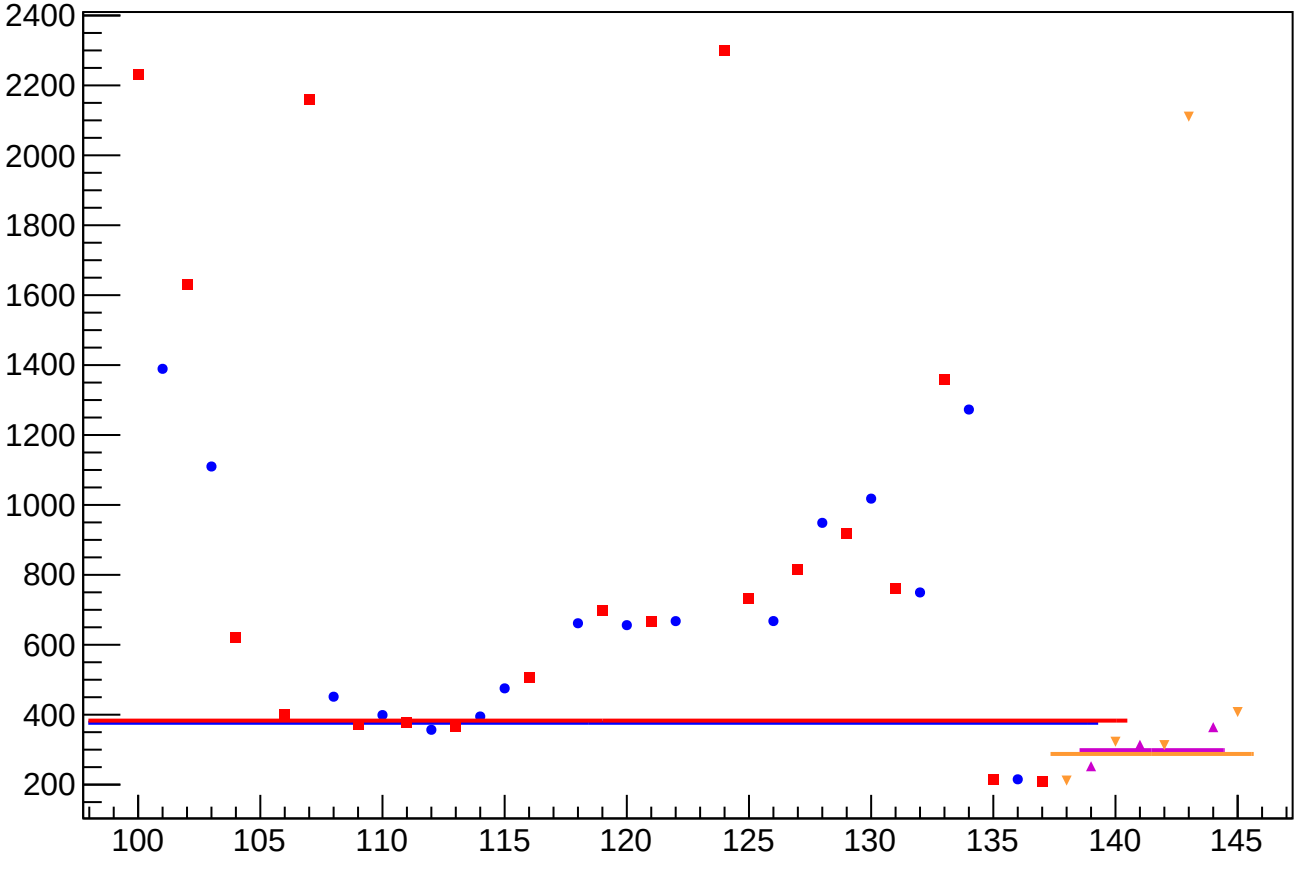
Right: -93.969+/-119.420 $\chi^2$/NDF: 38.3/34

In: -133.289+/-125.531 $\chi^2$/NDF:24.4/18

Out: 256.540+/-119.991 $\chi^2$/NDF:19.7/23

All: 70.417+/-86.739 $\chi^2$/NDF: 49.2/42

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: 287.731+/-0.120 $\chi^2$/NDF:1573329.6/4

Right Out: 383.074+/-0.120 $\chi^2$/NDF: 4054121.5/18

Left In: 298.554+/-0.133 $\chi^2$/NDF:114926.9/2

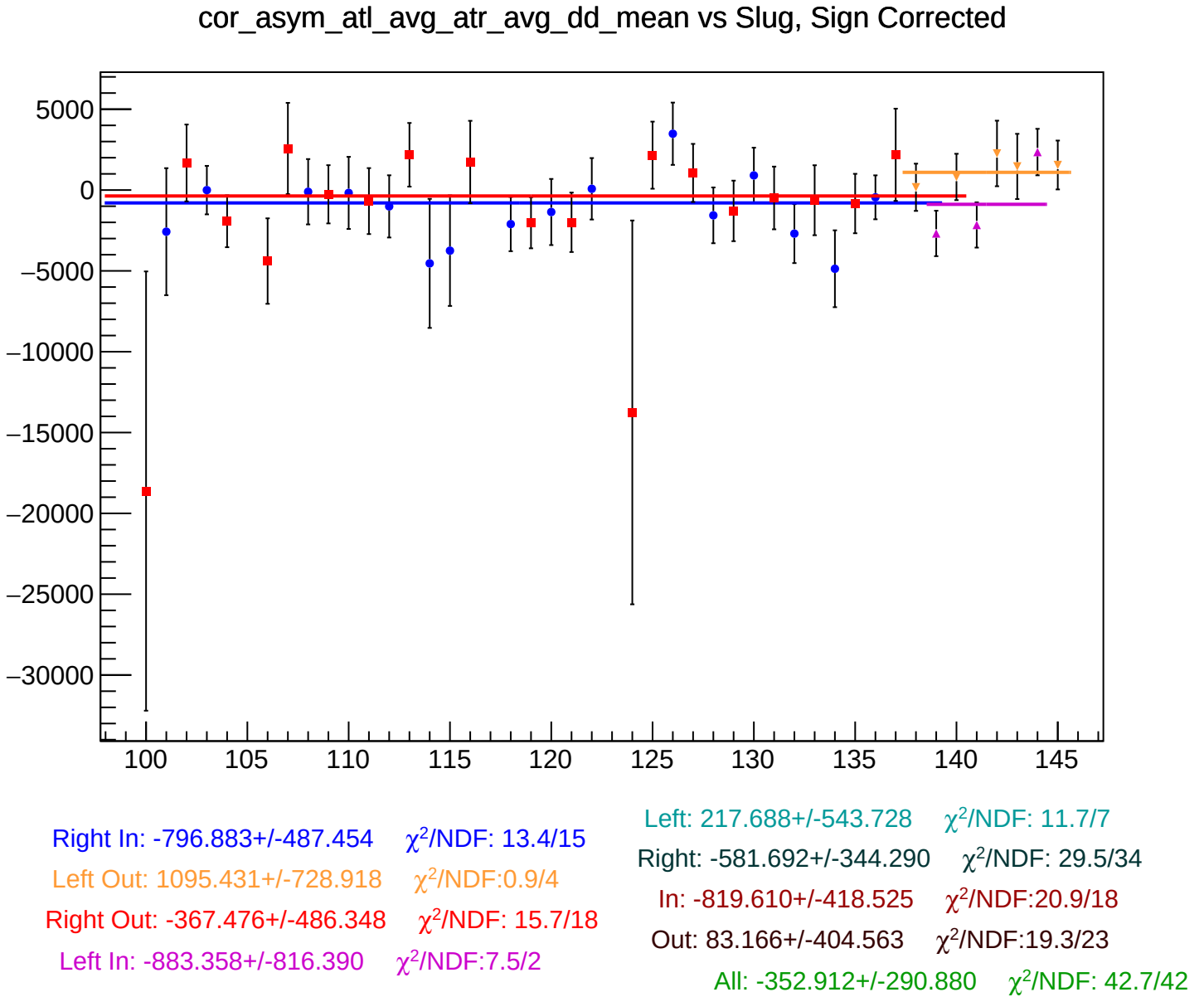
Left: 292.577+/-0.089 $\chi^2$/NDF: 1691894.5/7

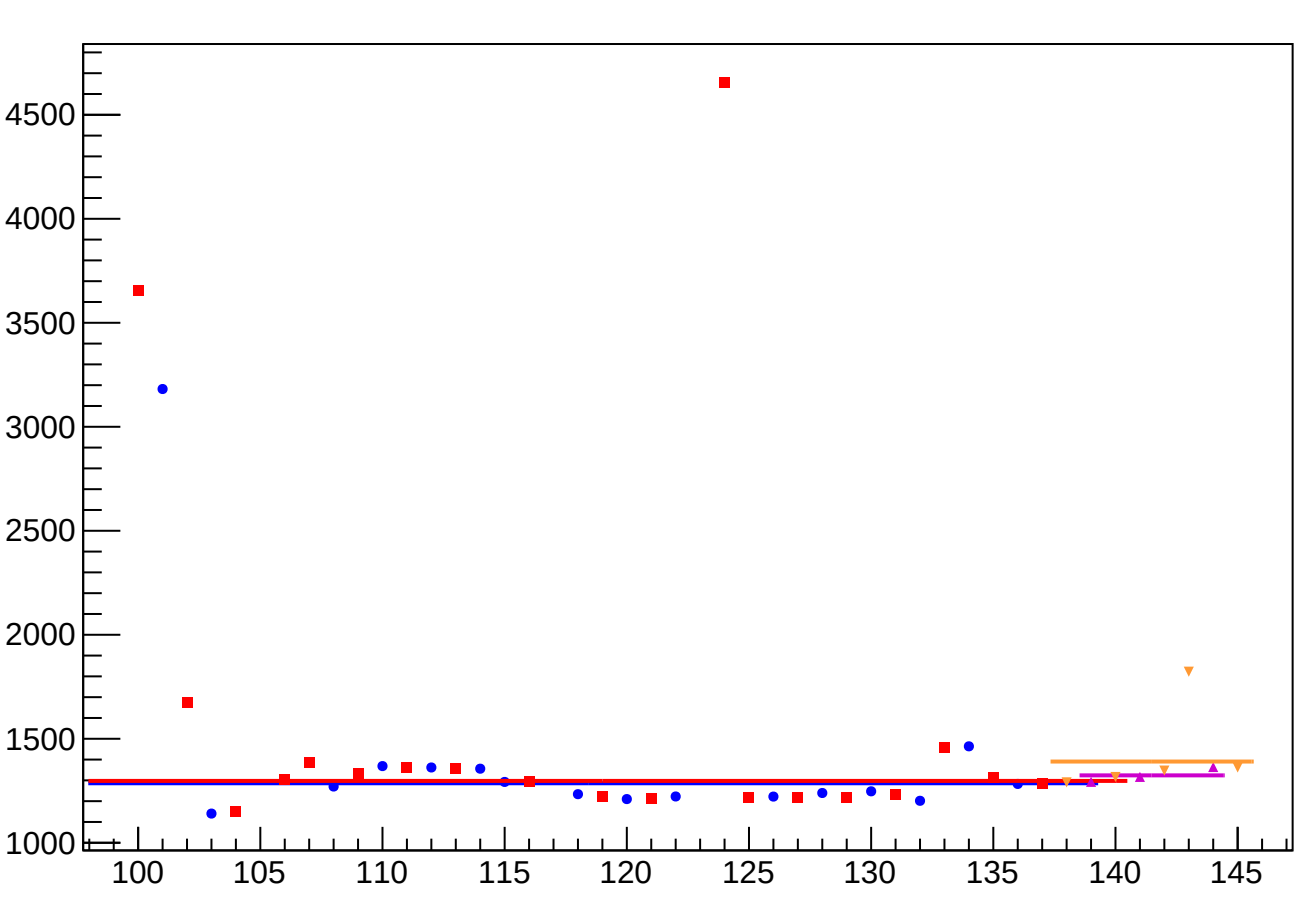
Right: 379.958+/-0.084 $\chi^2$/NDF: 8245655.7/34

In: 342.186+/-0.089 $\chi^2$/NDF:4497315.5/18

Out: 335.469+/-0.085 $\chi^2$/NDF:5943131.6/23

All: 338.676+/-0.061 $\chi^2$/NDF: 10443440.0/42


cor_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -796.883+/-487.454 χ²/NDF: 13.4/15
Left Out: 1095.431+/-728.918 χ²/NDF:0.9/4
Right Out: -367.476+/-486.348 χ²/NDF: 15.7/18
Left In: -883.358+/-816.390 χ²/NDF:7.5/2
Left: 217.688+/-543.728 χ²/NDF: 11.7/7
Right: -581.692+/-344.290 χ²/NDF: 29.5/34
In: -819.610+/-418.525 χ²/NDF:20.9/18
Out: 83.166+/-404.563 χ²/NDF:19.3/23
All: -352.912+/-290.880 χ²/NDF: 42.7/42




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1390.491+/-0.515 $\chi^2$/NDF:108101.4/4

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1324.049+/-0.577 $\chi^2$/NDF:2596.7/2

Left: 1361.019+/-0.384 $\chi^2$/NDF: 118069.1/7

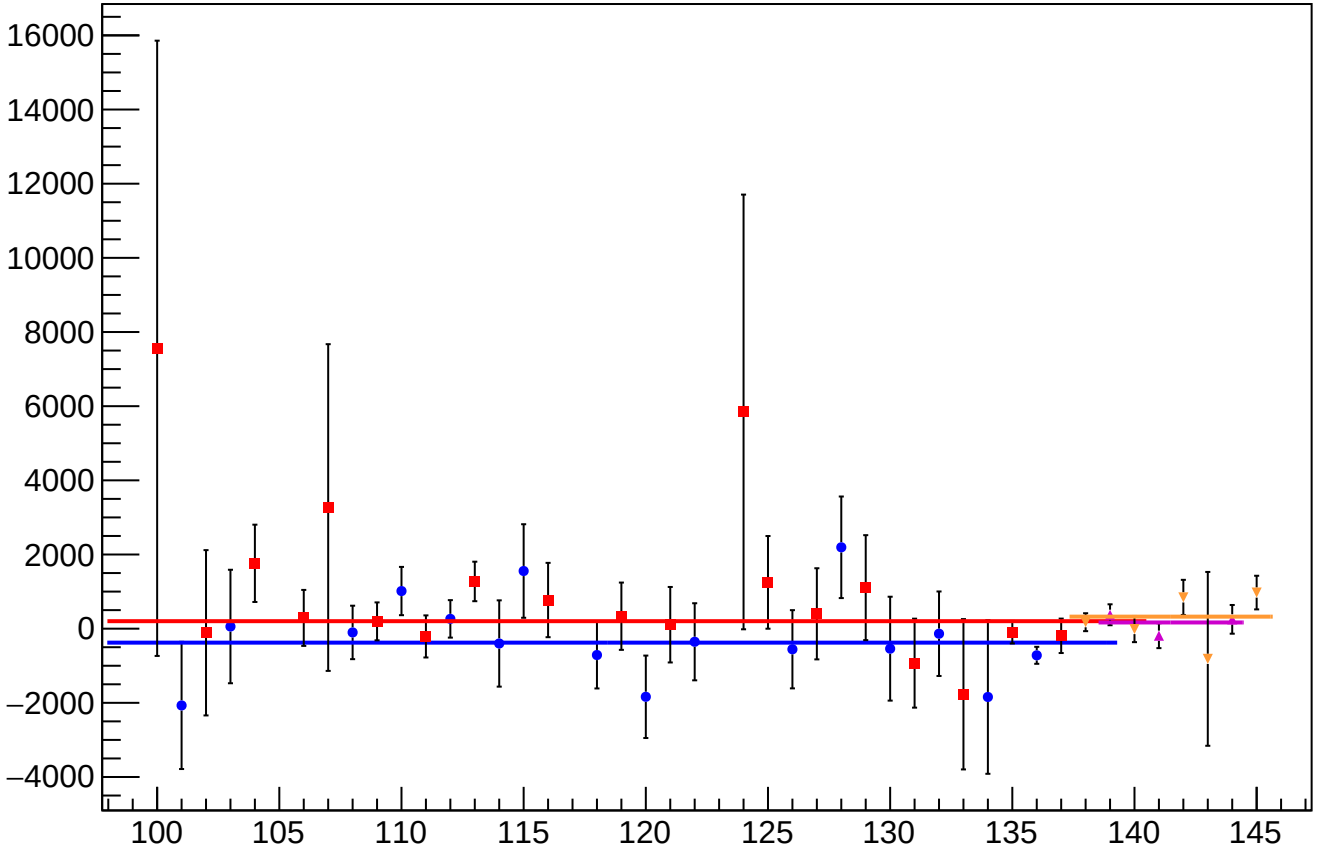
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1296.071+/-0.296 $\chi^2$/NDF:523911.3/18

Out: 1326.072+/-0.286 $\chi^2$/NDF:458417.7/23

All: 1311.580+/-0.206 $\chi^2$/NDF: 987641.6/42

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: 324.380+/-169.817 $\chi^2$/NDF:4.8/4

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 167.310+/-188.596 $\chi^2$/NDF:1.7/2

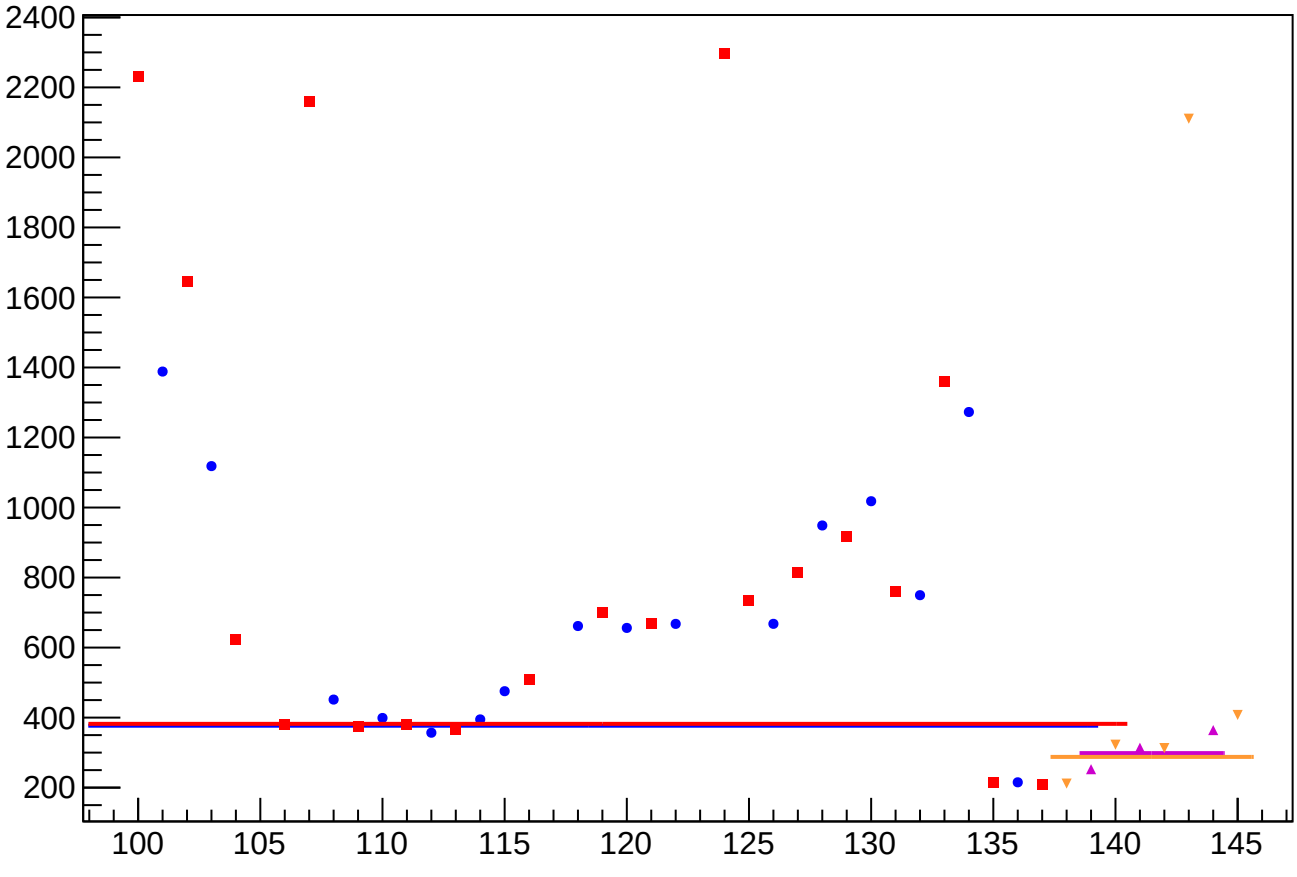
Left: 254.052+/-126.197 $\chi^2$/NDF: 6.9/7

Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: -135.694+/-125.539 $\chi^2$/NDF:24.3/18

Out: 263.103+/-119.923 $\chi^2$/NDF:19.1/23

All: 72.824+/-86.716 $\chi^2$/NDF: 48.6/42




Right In: 376.884+/-0.119 $\chi^2$/NDF: 4193328.0/15

Left Out: 287.743+/-0.120 $\chi^2$/NDF:1573334.3/4

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 298.554+/-0.133 $\chi^2$/NDF:114906.5/2

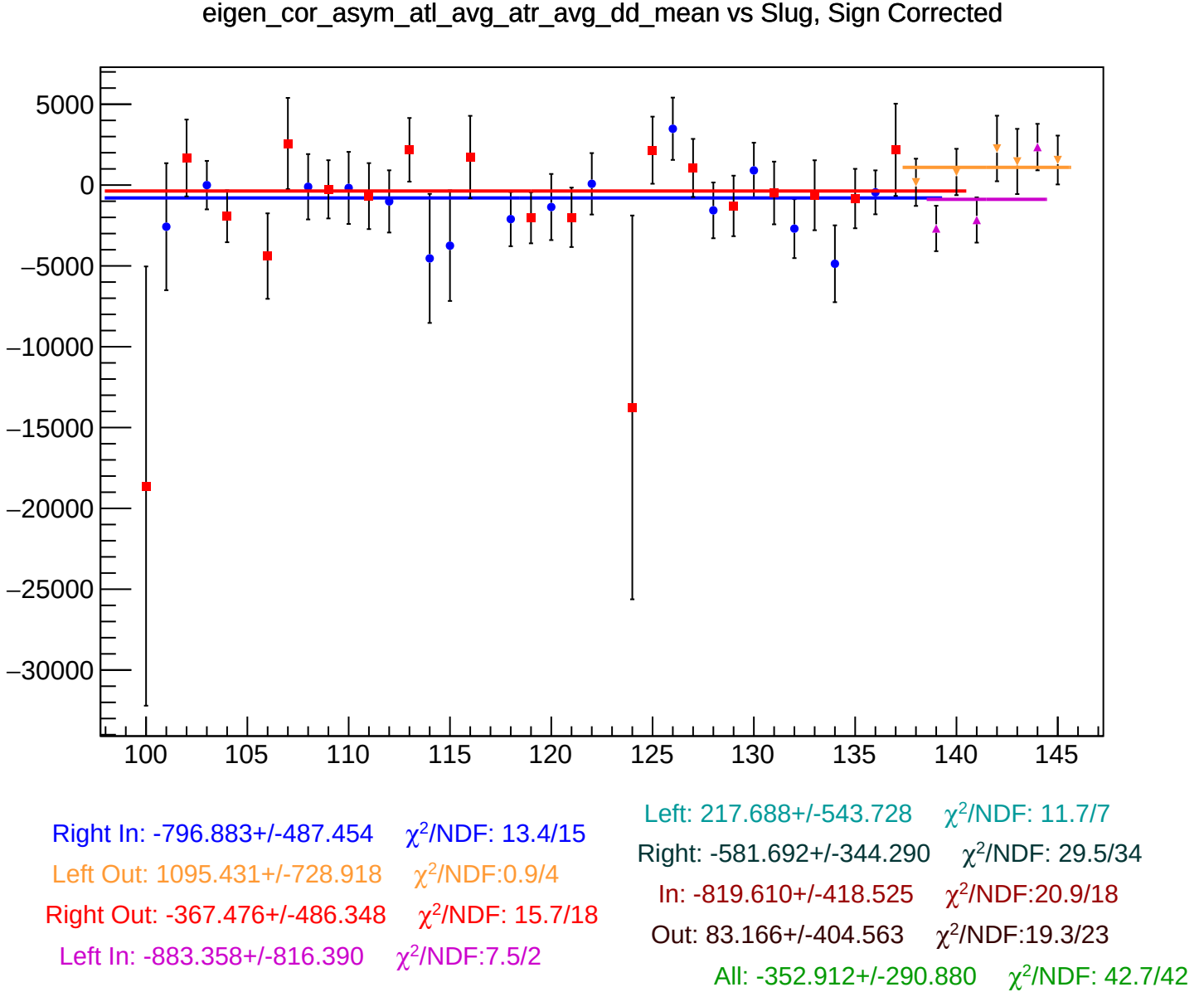
Left: 292.584+/-0.089 $\chi^2$/NDF: 1691869.8/7

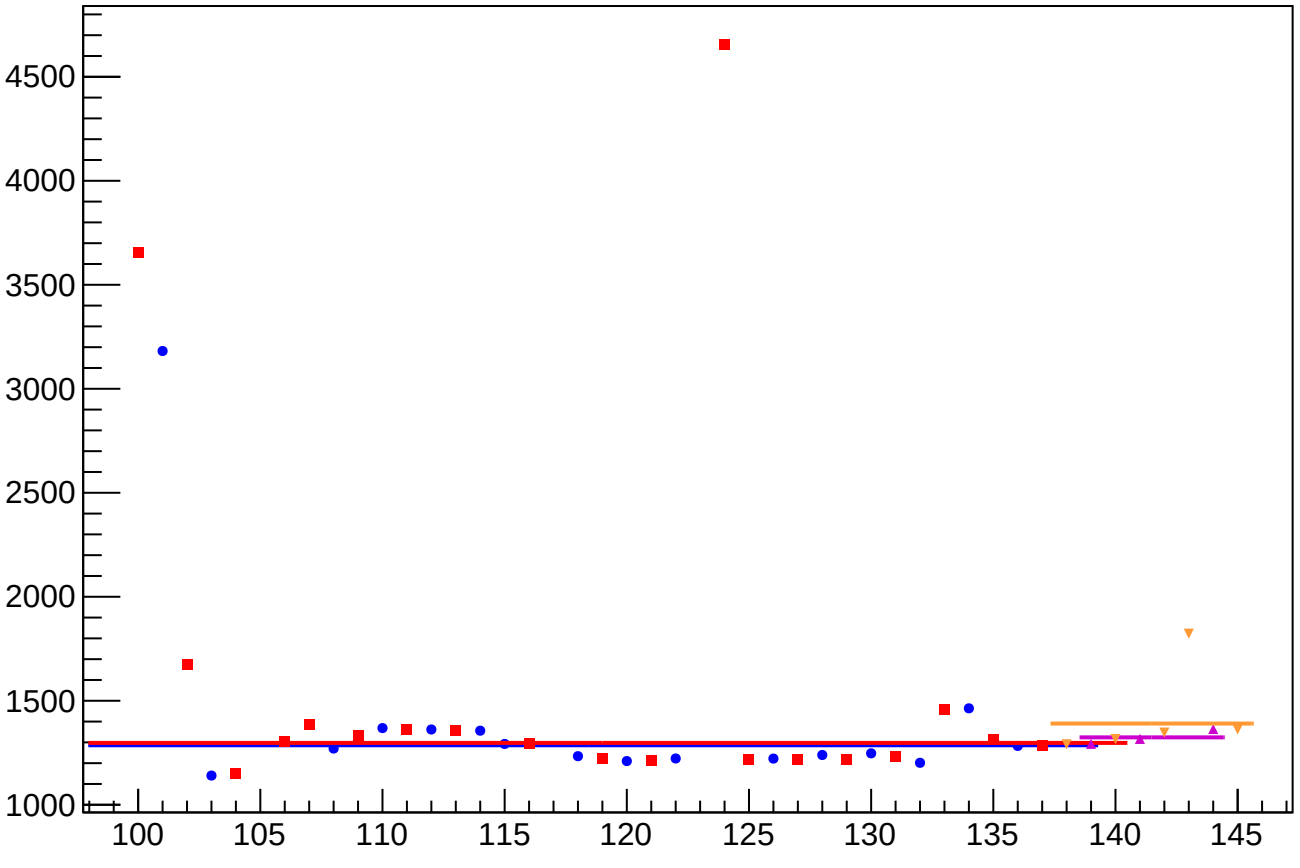
Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 342.177+/-0.089 $\chi^2$/NDF:4500369.8/18

Out: 335.062+/-0.085 $\chi^2$/NDF:5942702.4/23

All: 338.457+/-0.061 $\chi^2$/NDF: 10446430.6/42


eigen_cor_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -796.883+/-487.454 χ²/NDF: 13.4/15
Left Out: 1095.431+/-728.918 χ²/NDF:0.9/4
Right Out: -367.476+/-486.348 χ²/NDF: 15.7/18
Left In: -883.358+/-816.390 χ²/NDF:7.5/2
Left: 217.688+/-543.728 χ²/NDF: 11.7/7
Right: -581.692+/-344.290 χ²/NDF: 29.5/34
In: -819.610+/-418.525 χ²/NDF:20.9/18
Out: 83.166+/-404.563 χ²/NDF:19.3/23
All: -352.912+/-290.880 χ²/NDF: 42.7/42




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1390.491+/-0.515 $\chi^2$/NDF:108101.4/4

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1324.049+/-0.577 $\chi^2$/NDF:2596.7/2

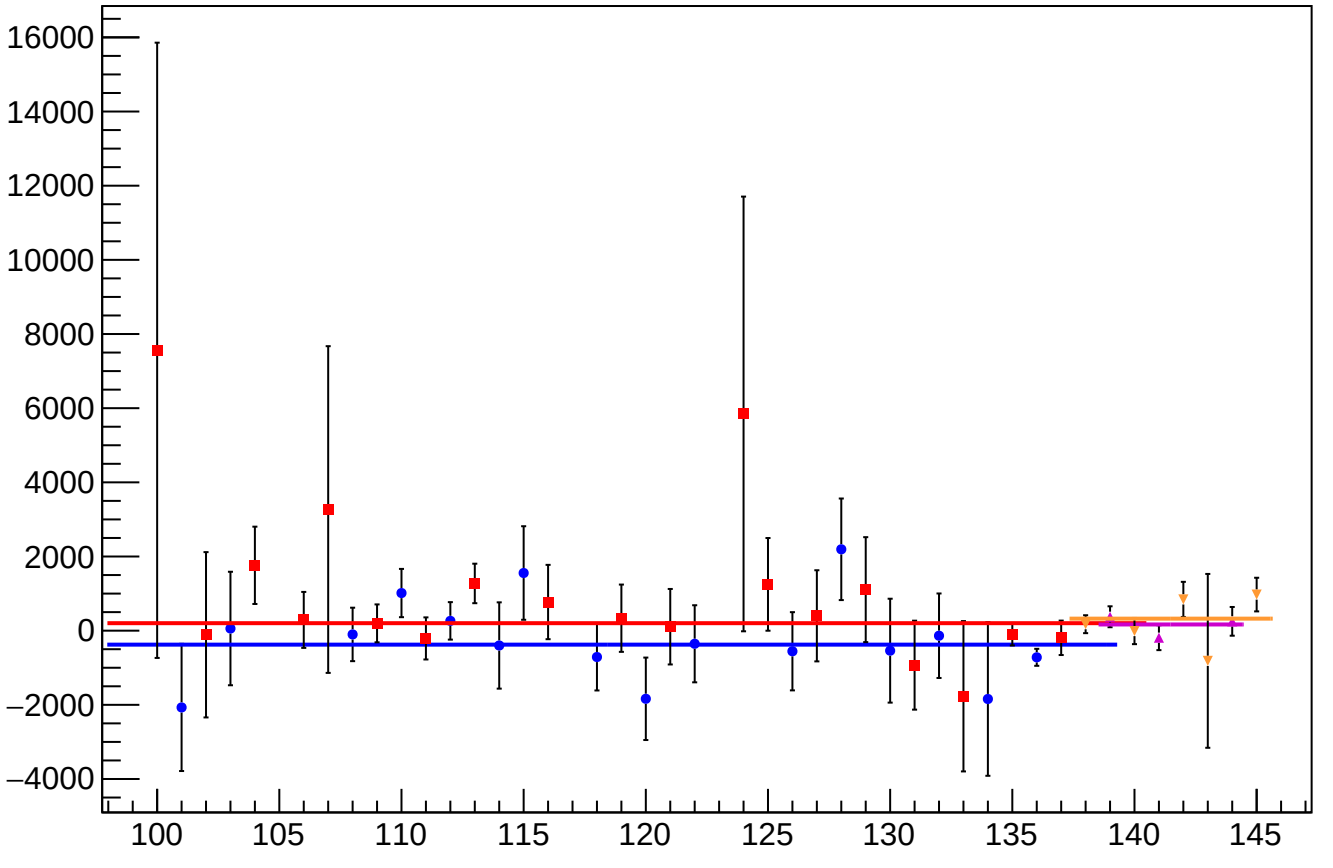
Left: 1361.019+/-0.384 $\chi^2$/NDF: 118069.1/7

Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1296.071+/-0.296 $\chi^2$/NDF:523911.3/18

Out: 1326.072+/-0.286 $\chi^2$/NDF:458417.7/23

All: 1311.580+/-0.206 $\chi^2$/NDF: 987641.6/42




Right In: -376.771+/-168.223 $\chi^2$/NDF: 17.9/15

Left Out: 324.380+/-169.817 $\chi^2$/NDF:4.8/4

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 167.310+/-188.596 $\chi^2$/NDF:1.7/2

Left: 254.052+/-126.197 $\chi^2$/NDF: 6.9/7

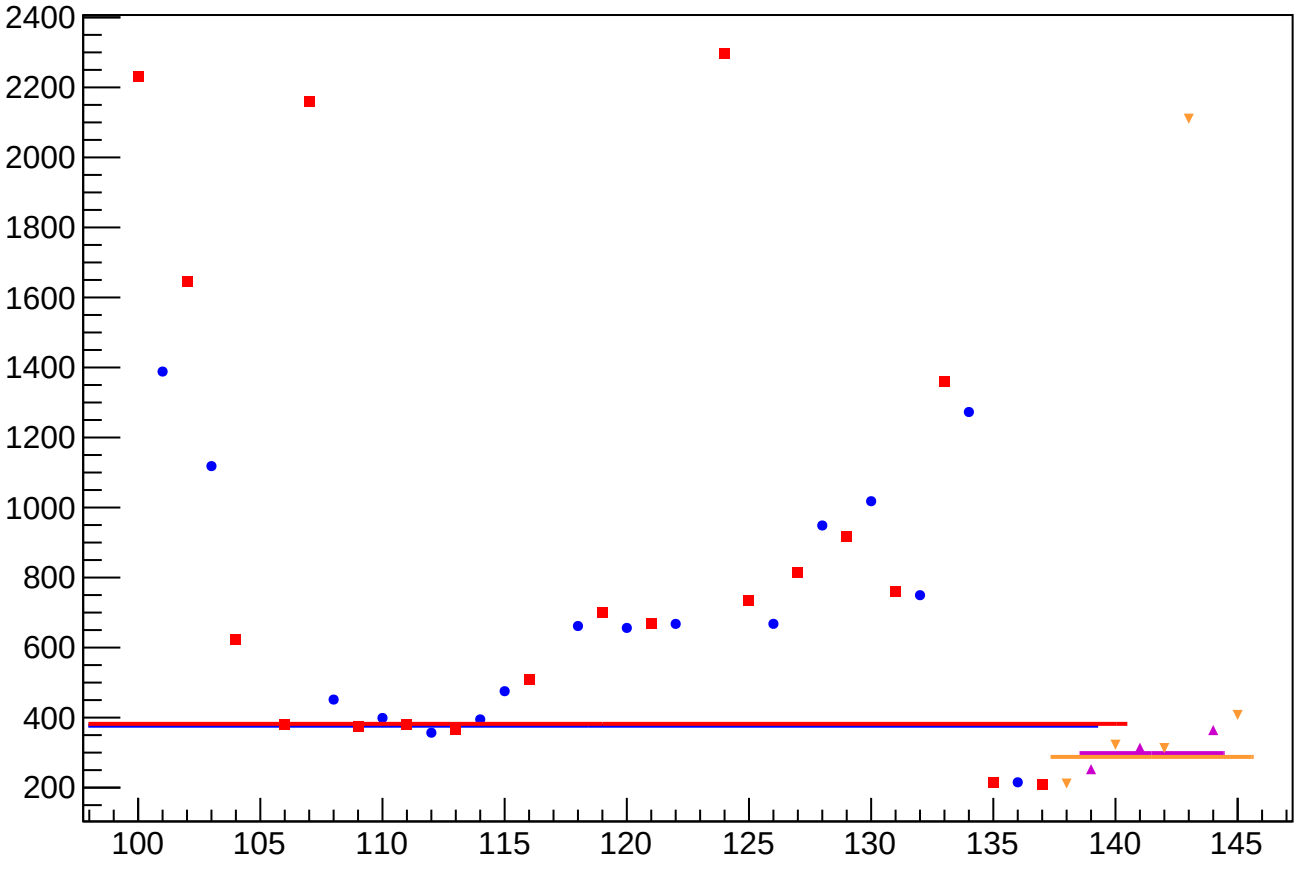
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: -135.694+/-125.539 $\chi^2$/NDF:24.3/18

Out: 263.103+/-119.923 $\chi^2$/NDF:19.1/23

All: 72.824+/-86.716 $\chi^2$/NDF: 48.6/42

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: 287.743+/-0.120 $\chi^2$/NDF:1573334.3/4

Right Out: 382.136+/-0.120 $\chi^2$/NDF: 4059600.2/18

Left In: 298.554+/-0.133 $\chi^2$/NDF:114906.5/2

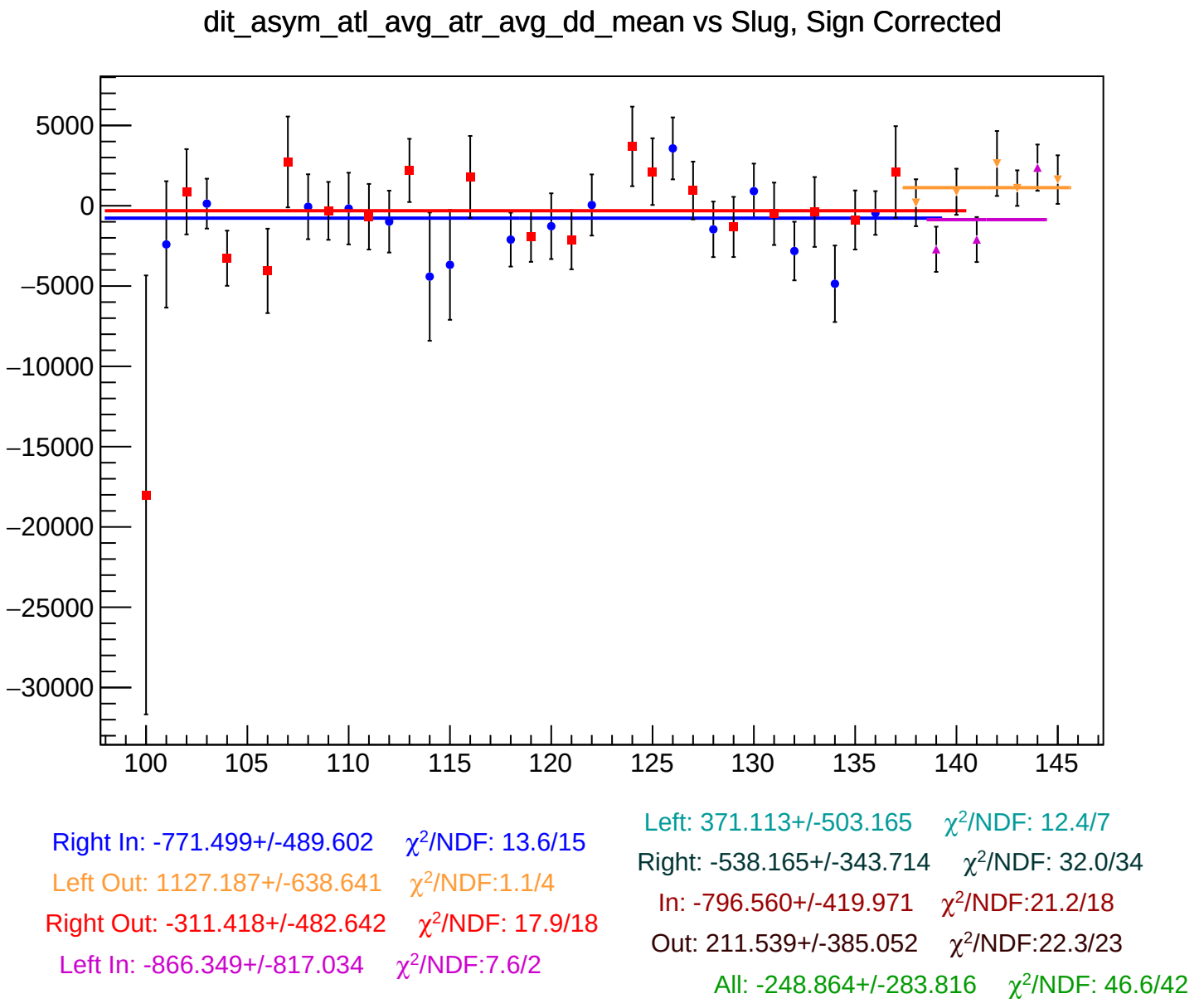
Left: 292.584+/-0.089 $\chi^2$/NDF: 1691869.8/7

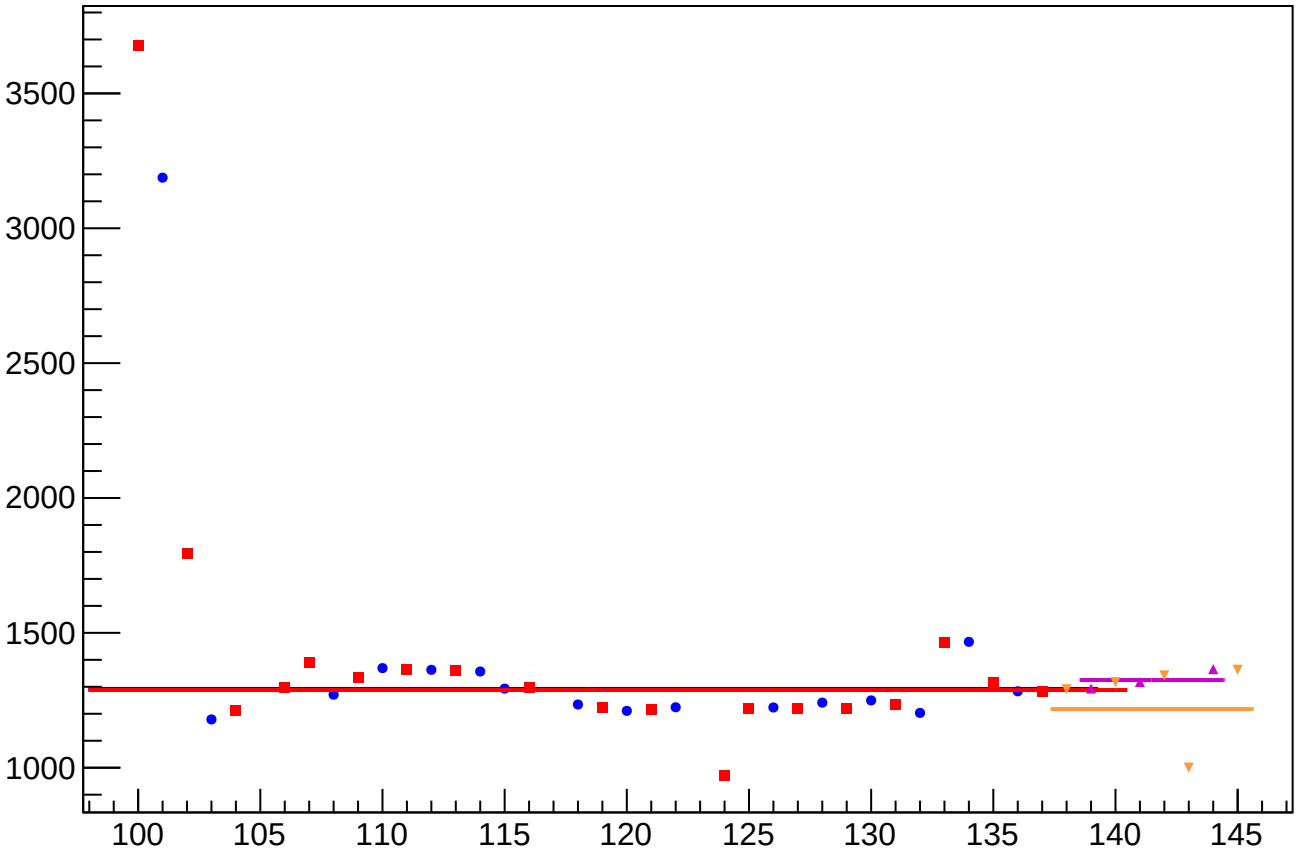
Right: 379.492+/-0.084 $\chi^2$/NDF: 8253896.4/34

In: 342.177+/-0.089 $\chi^2$/NDF:4500369.8/18

Out: 335.062+/-0.085 $\chi^2$/NDF:5942702.4/23

All: 338.457+/-0.061 $\chi^2$/NDF: 10446430.6/42


dit_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -771.499+/-489.602 χ²/NDF: 13.6/15
Left Out: 1127.187+/-638.641 χ²/NDF:1.1/4
Right Out: -311.418+/-482.642 χ²/NDF: 17.9/18
Left In: -866.349+/-817.034 χ²/NDF:7.6/2
Left: 371.113+/-503.165 χ²/NDF: 12.4/7
Right: -538.165+/-343.714 χ²/NDF: 32.0/34
In: -796.560+/-419.971 χ²/NDF:21.2/18
Out: 211.539+/-385.052 χ²/NDF:22.3/23
All: -248.864+/-283.816 χ²/NDF: 46.6/42




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.3/15

Left Out: 1217.380+/-0.452 $\chi^2$/NDF:117768.6/4

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209208.8/18

Left In: 1325.081+/-0.578 $\chi^2$/NDF:2633.4/2

Left: 1258.227+/-0.356 $\chi^2$/NDF: 141974.3/7

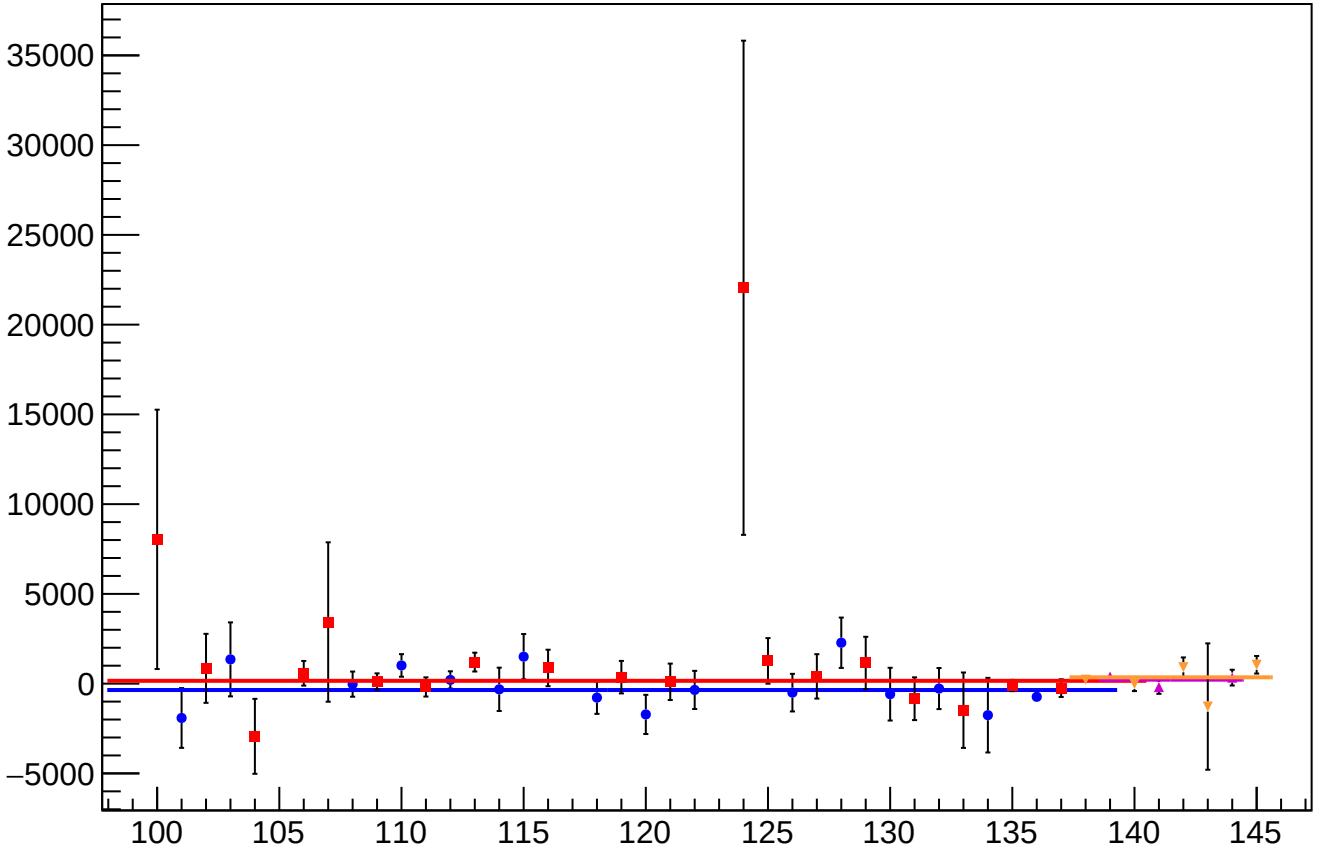
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.5/34

In: 1300.768+/-0.297 $\chi^2$/NDF:514446.6/18

Out: 1262.321+/-0.272 $\chi^2$/NDF:342537.7/23

All: 1279.880+/-0.201 $\chi^2$/NDF: 866091.0/42

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: 352.458+/-179.843 $\chi^2$/NDF:4.5/4

Right Out: 157.924+/-169.665 $\chi^2$/NDF: 15.8/18

Left In: 221.121+/-199.020 $\chi^2$/NDF:1.6/2

Left: 293.421+/-133.434 $\chi^2$/NDF: 6.4/7

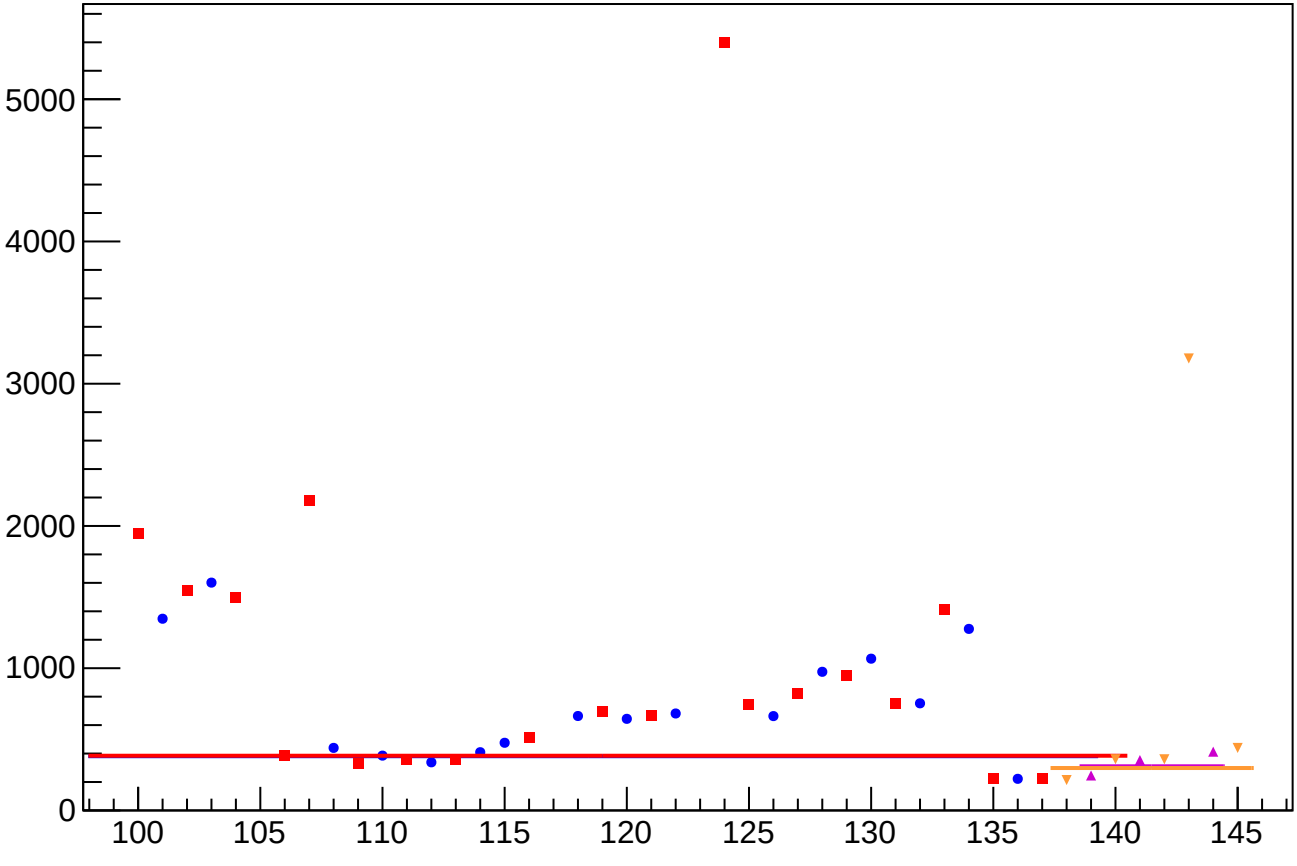
Right: -98.189+/-120.079 $\chi^2$/NDF: 38.8/34

In: -112.147+/-129.249 $\chi^2$/NDF:24.9/18

Out: 249.530+/-123.413 $\chi^2$/NDF:21.0/23

All: 77.042+/-89.258 $\chi^2$/NDF: 50.0/42

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: 298.312+/-0.127 $\chi^2$/NDF:1821050.2/4

Right Out: 384.651+/-0.120 $\chi^2$/NDF: 4560208.6/18

Left In: 310.495+/-0.141 $\chi^2$/NDF:245603.0/2

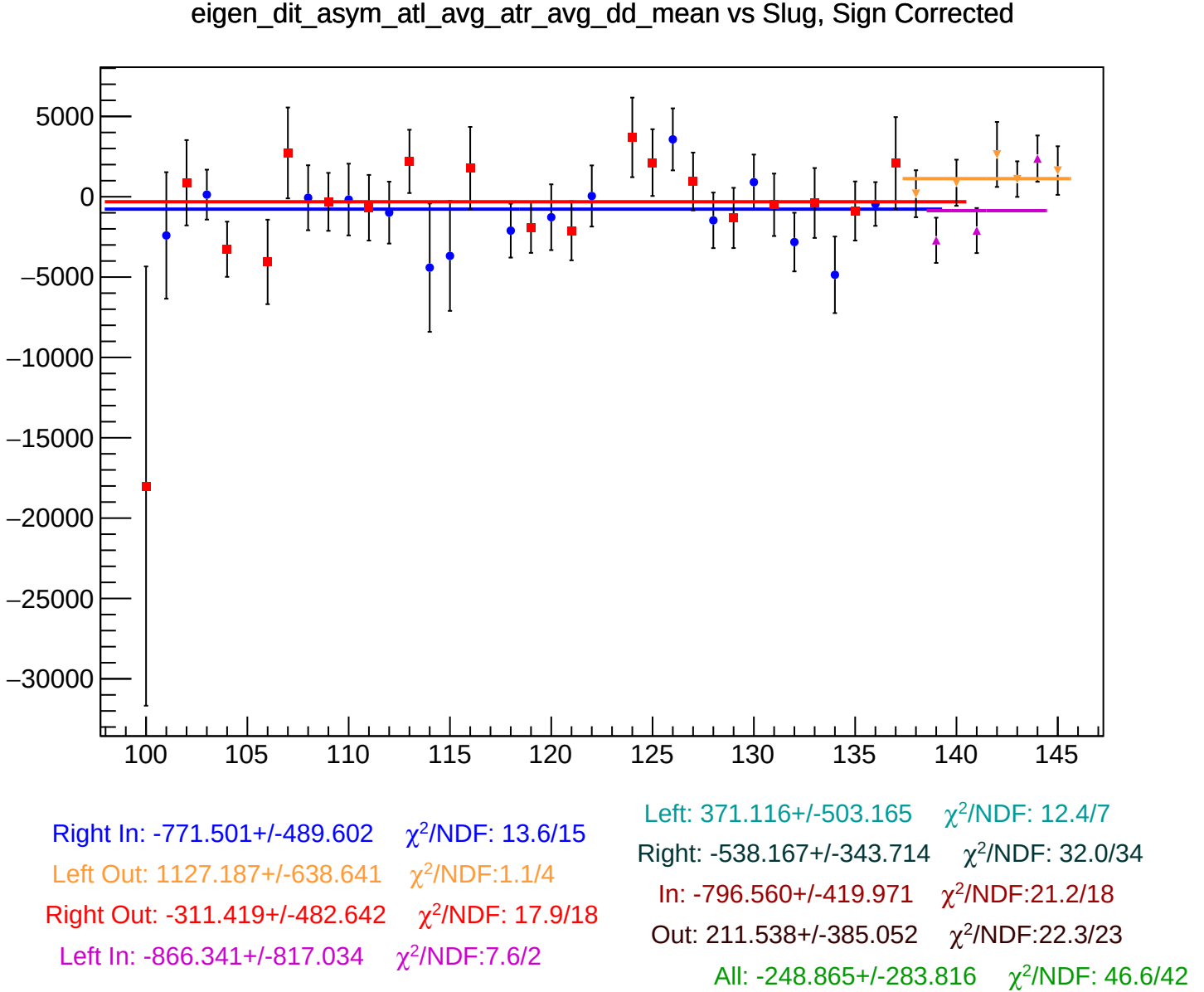
Left: 303.788+/-0.094 $\chi^2$/NDF: 2070779.2/7

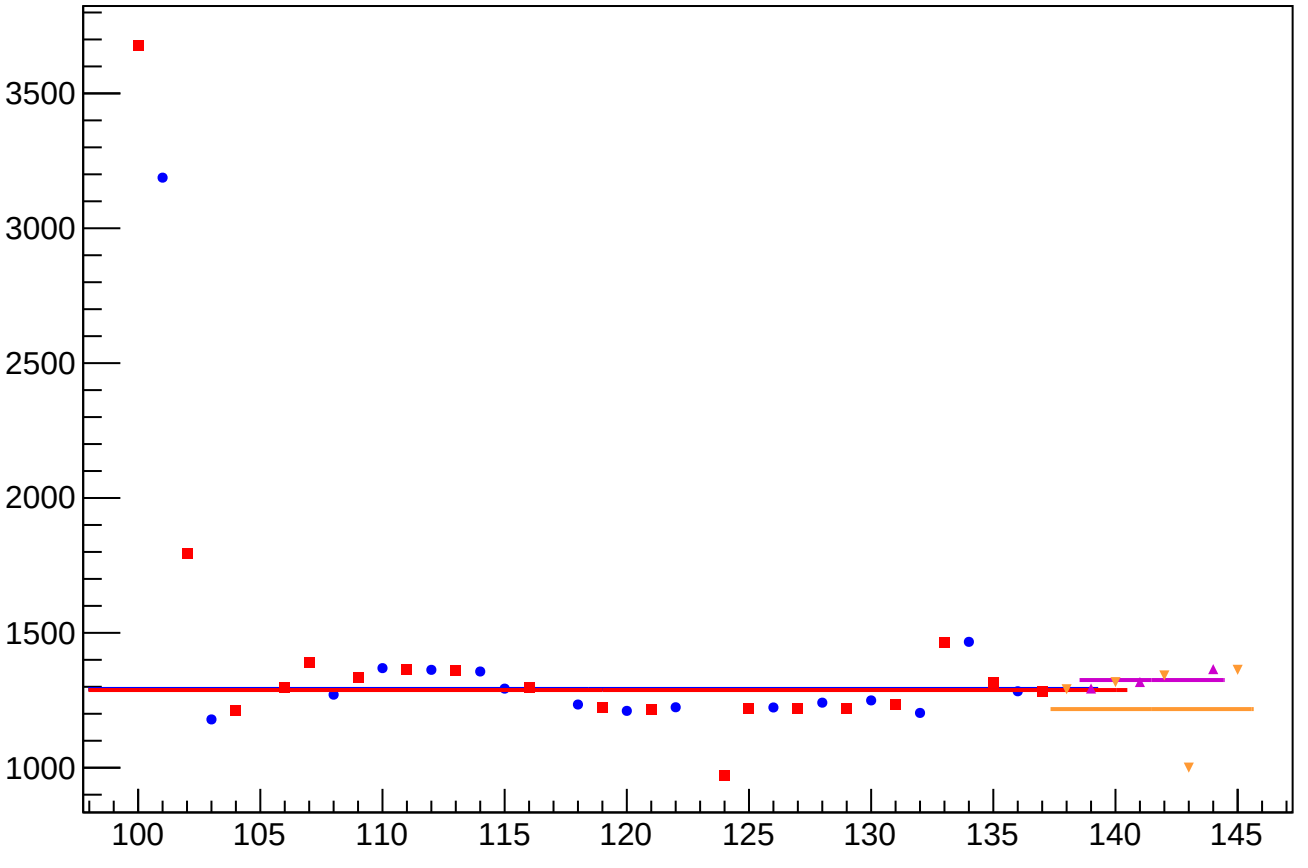
Right: 383.003+/-0.085 $\chi^2$/NDF: 8878509.2/34

In: 351.466+/-0.091 $\chi^2$/NDF:4710104.3/18

Out: 343.993+/-0.087 $\chi^2$/NDF:6625147.1/23

All: 347.557+/-0.063 $\chi^2$/NDF: 11338748.2/42


eigen_dit_asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -771.501+/-489.602 χ²/NDF: 13.6/15
Left Out: 1127.187+/-638.641 χ²/NDF:1.1/4
Right Out: -311.419+/-482.642 χ²/NDF: 17.9/18
Left In: -866.341+/-817.034 χ²/NDF:7.6/2
Left: 371.116+/-503.165 χ²/NDF: 12.4/7
Right: -538.167+/-343.714 χ²/NDF: 32.0/34
In: -796.560+/-419.971 χ²/NDF:21.2/18
Out: 211.538+/-385.052 χ²/NDF:22.3/23
All: -248.865+/-283.816 χ²/NDF: 46.6/42




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.2/15

Left Out: 1217.380+/-0.452 $\chi^2$/NDF:117767.9/4

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209209.1/18

Left In: 1325.081+/-0.578 $\chi^2$/NDF:2633.4/2

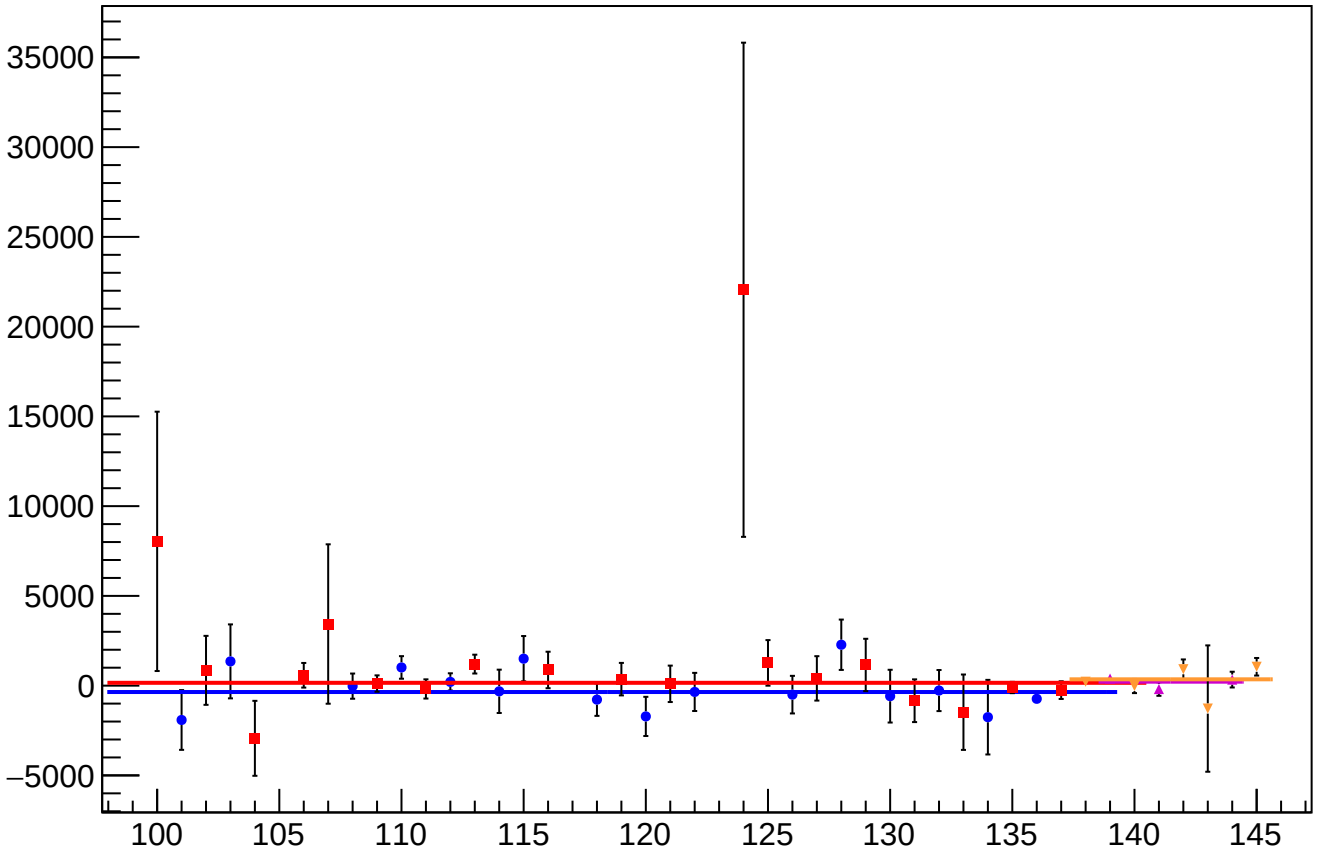
Left: 1258.227+/-0.356 $\chi^2$/NDF: 141973.4/7

Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.7/34

In: 1300.768+/-0.297 $\chi^2$/NDF:514446.6/18

Out: 1262.321+/-0.272 $\chi^2$/NDF:342537.1/23

All: 1279.880+/-0.201 $\chi^2$/NDF: 866090.2/42




Right In: -355.226+/-169.973 $\chi^2$/NDF: 18.4/15

Left Out: 352.476+/-179.850 $\chi^2$/NDF:4.5/4

Right Out: 157.929+/-169.667 $\chi^2$/NDF: 15.8/18

Left In: 221.125+/-199.027 $\chi^2$/NDF:1.6/2

Left: 293.432+/-133.439 $\chi^2$/NDF: 6.4/7

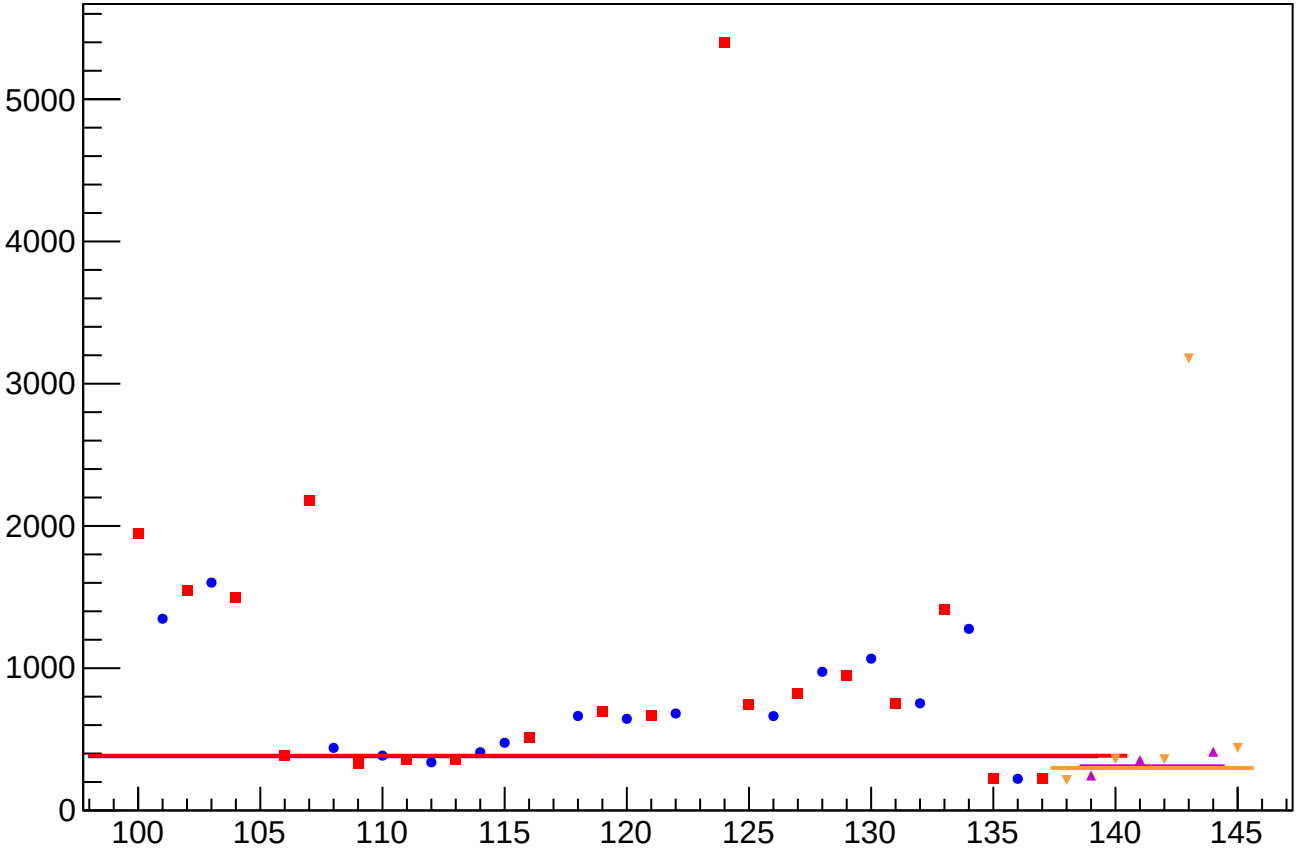
Right: -98.185+/-120.081 $\chi^2$/NDF: 38.8/34

In: -112.150+/-129.253 $\chi^2$/NDF:24.9/18

Out: 249.539+/-123.416 $\chi^2$/NDF:21.0/23

All: 77.046+/-89.260 $\chi^2$/NDF: 50.0/42

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 381.359+/-0.120 $\chi^2$/NDF: 4317737.3/15

Left Out: 298.325+/-0.127 $\chi^2$/NDF:1820952.9/4

Right Out: 384.658+/-0.120 $\chi^2$/NDF: 4560068.3/18

Left In: 310.509+/-0.141 $\chi^2$/NDF:245546.3/2

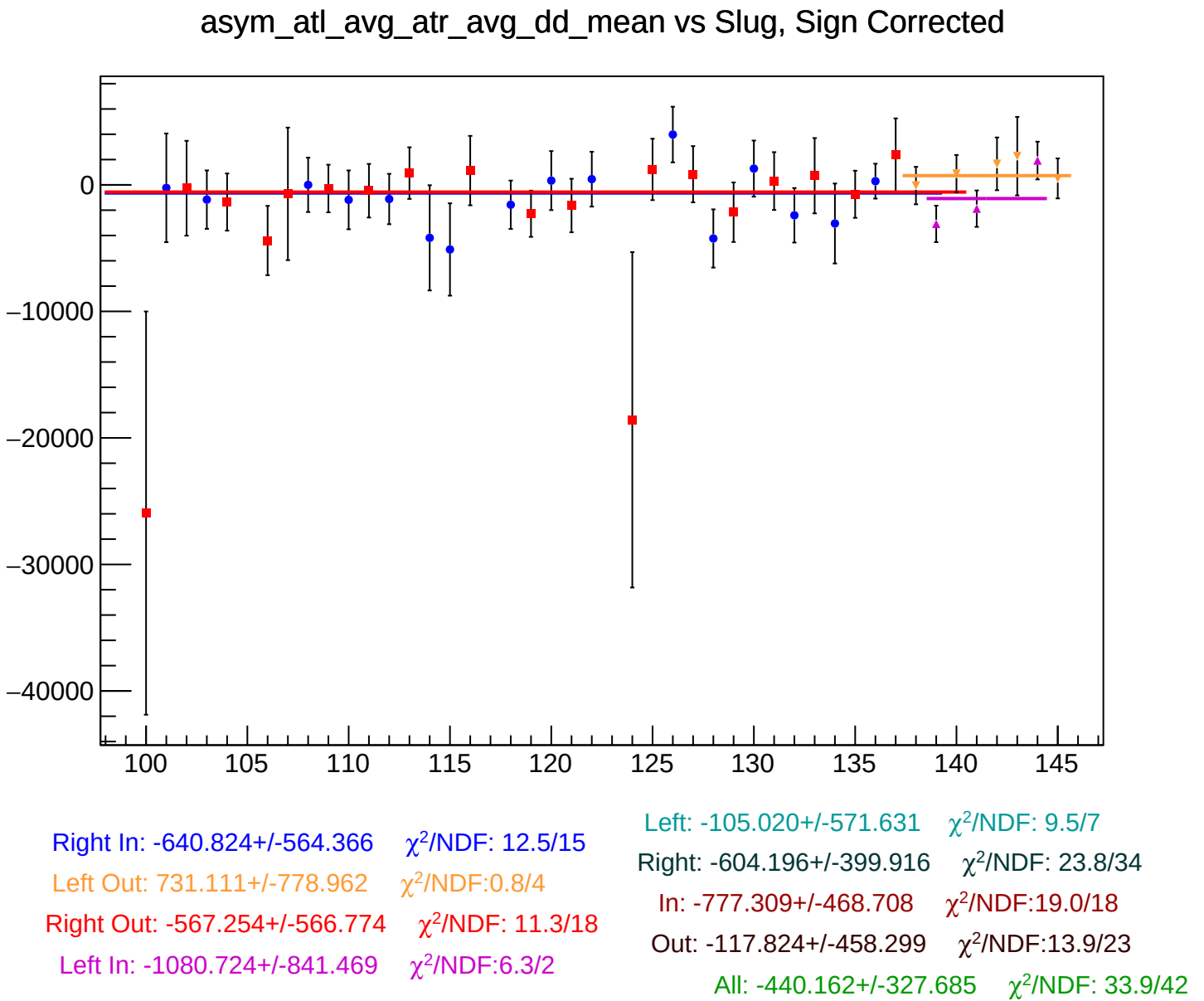
Left: 303.802+/-0.094 $\chi^2$/NDF: 2070624.6/7

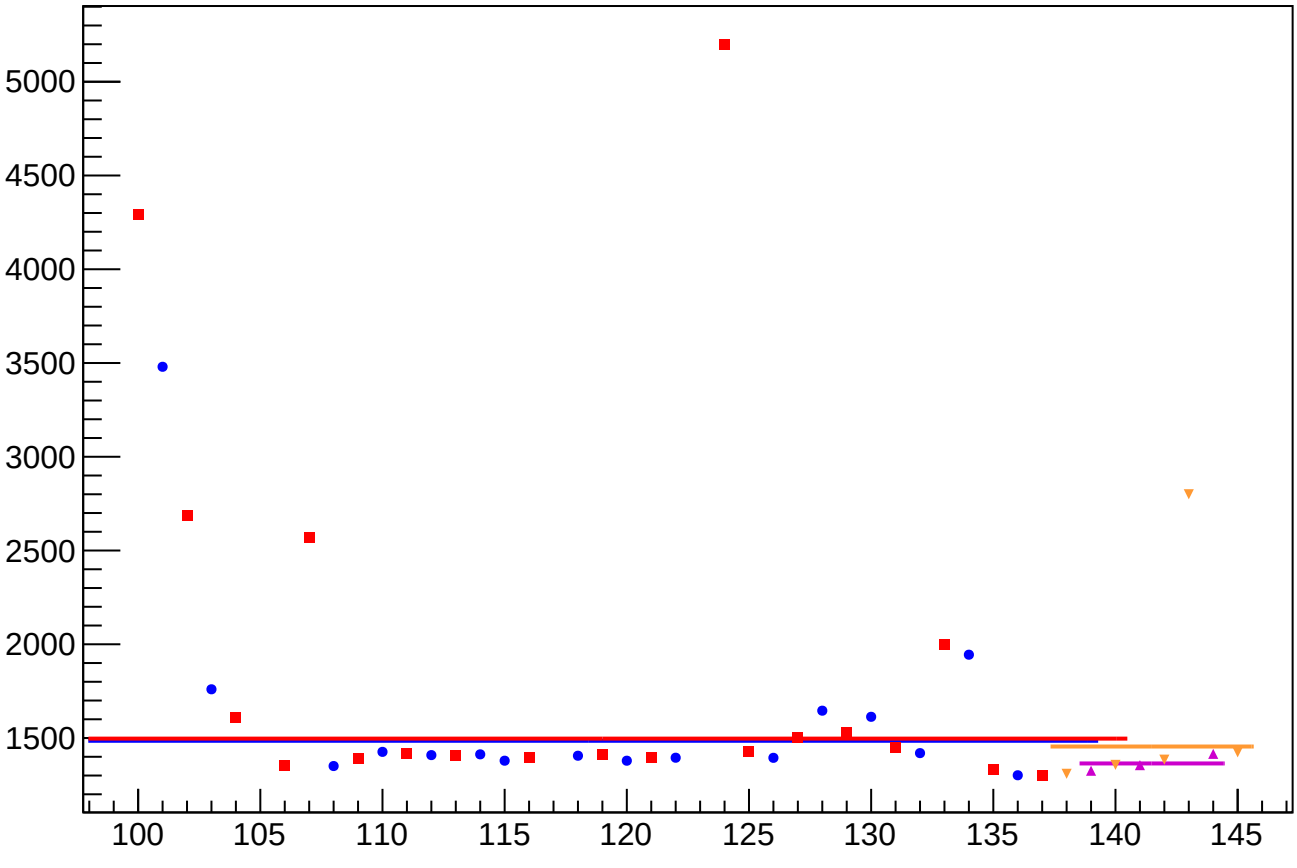
Right: 383.012+/-0.085 $\chi^2$/NDF: 8878183.1/34

In: 351.478+/-0.091 $\chi^2$/NDF:4709841.4/18

Out: 344.005+/-0.087 $\chi^2$/NDF:6624863.5/23

All: 347.569+/-0.063 $\chi^2$/NDF: 11338201.8/42


asym_atl_avg_atr_avg_dd_mean vs Slug, Sign Corrected
0
−10000
−20000
−30000
−40000
100
105
110
115
120
125
130
135
140
145
Right In: -640.824+/-564.366 χ²/NDF: 12.5/15
Left Out: 731.111+/-778.962 χ²/NDF:0.8/4
Right Out: -567.254+/-566.774 χ²/NDF: 11.3/18
Left In: -1080.724+/-841.469 χ²/NDF:6.3/2
Left: -105.020+/-571.631 χ²/NDF: 9.5/7
Right: -604.196+/-399.916 χ²/NDF: 23.8/34
In: -777.309+/-468.708 χ²/NDF:19.0/18
Out: -117.824+/-458.299 χ²/NDF:13.9/23
All: -440.162+/-327.685 χ²/NDF: 33.9/42




Right In: 1485.370+/-0.399 $\chi^2$/NDF: 584470.1/15

Left Out: 1454.719+/-0.551 $\chi^2$/NDF:407025.6/4

Right Out: 1496.865+/-0.401 $\chi^2$/NDF: 623292.7/18

Left In: 1364.434+/-0.595 $\chi^2$/NDF:3888.0/2

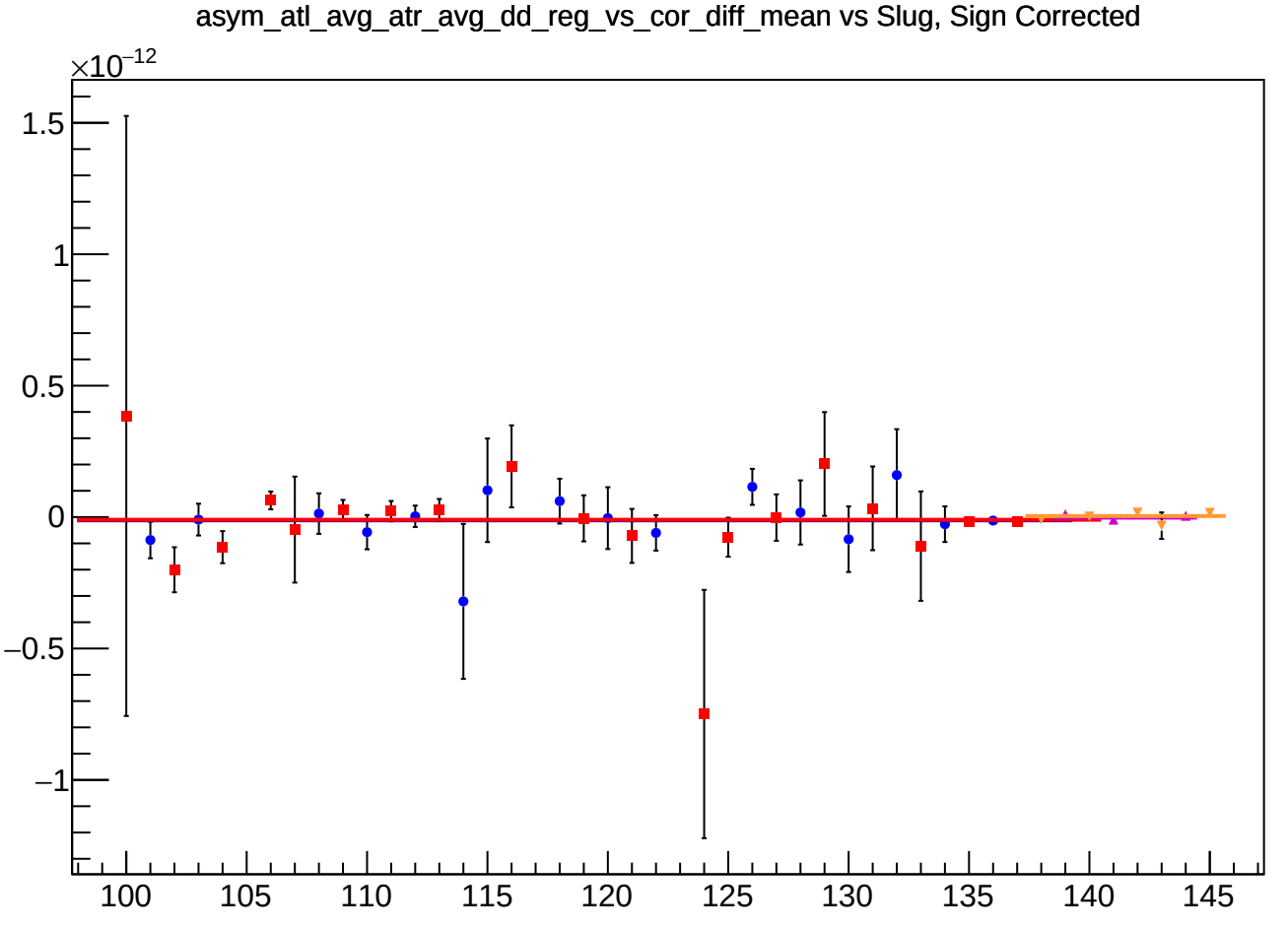
Left: 1413.054+/-0.404 $\chi^2$/NDF: 423312.3/7

Right: 1491.093+/-0.283 $\chi^2$/NDF: 1208175.9/34

In: 1447.848+/-0.331 $\chi^2$/NDF:616851.7/18

Out: 1482.276+/-0.324 $\chi^2$/NDF:1034146.6/23

All: 1465.449+/-0.232 $\chi^2$/NDF: 1656514.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.0/2

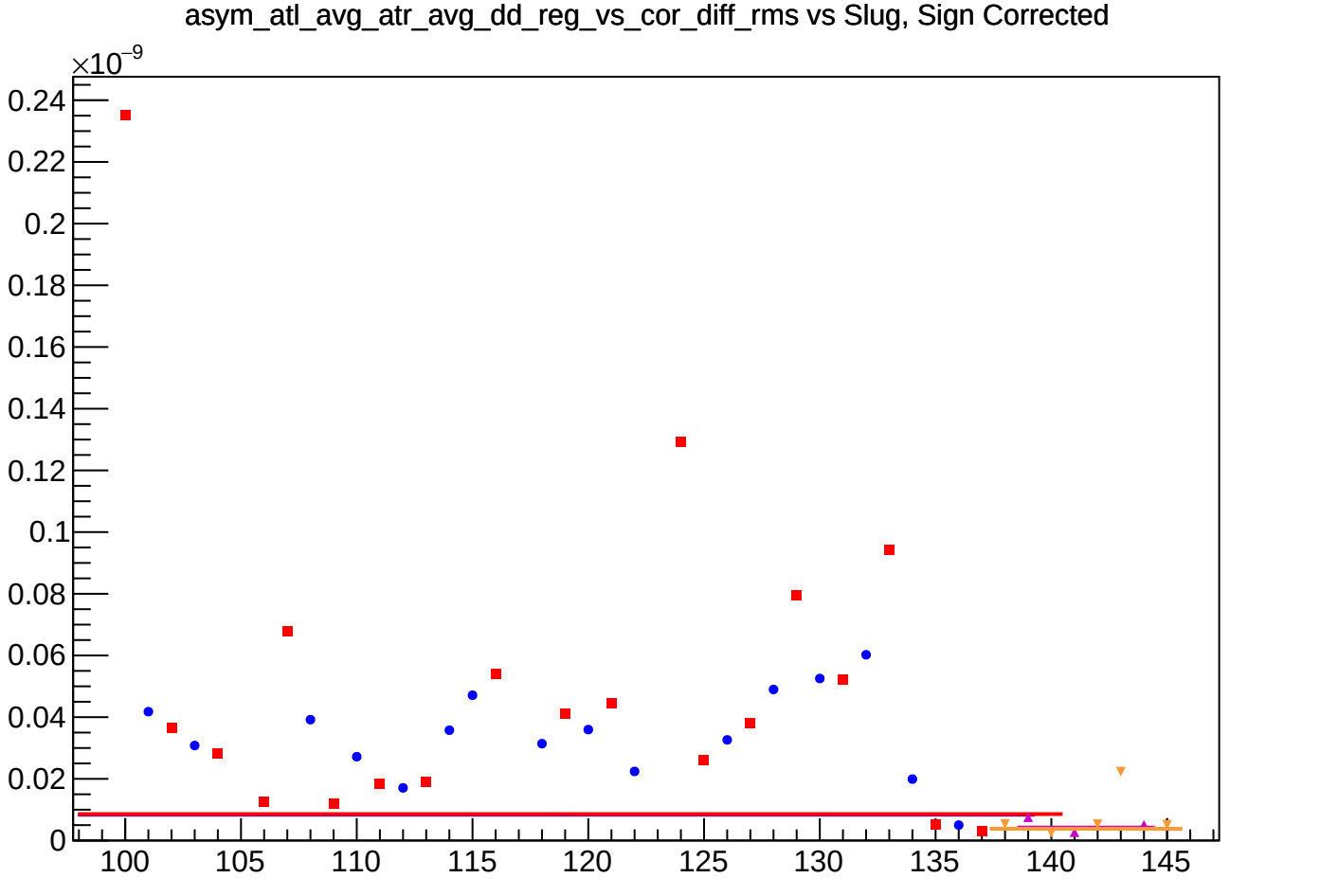
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.3/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.8/34

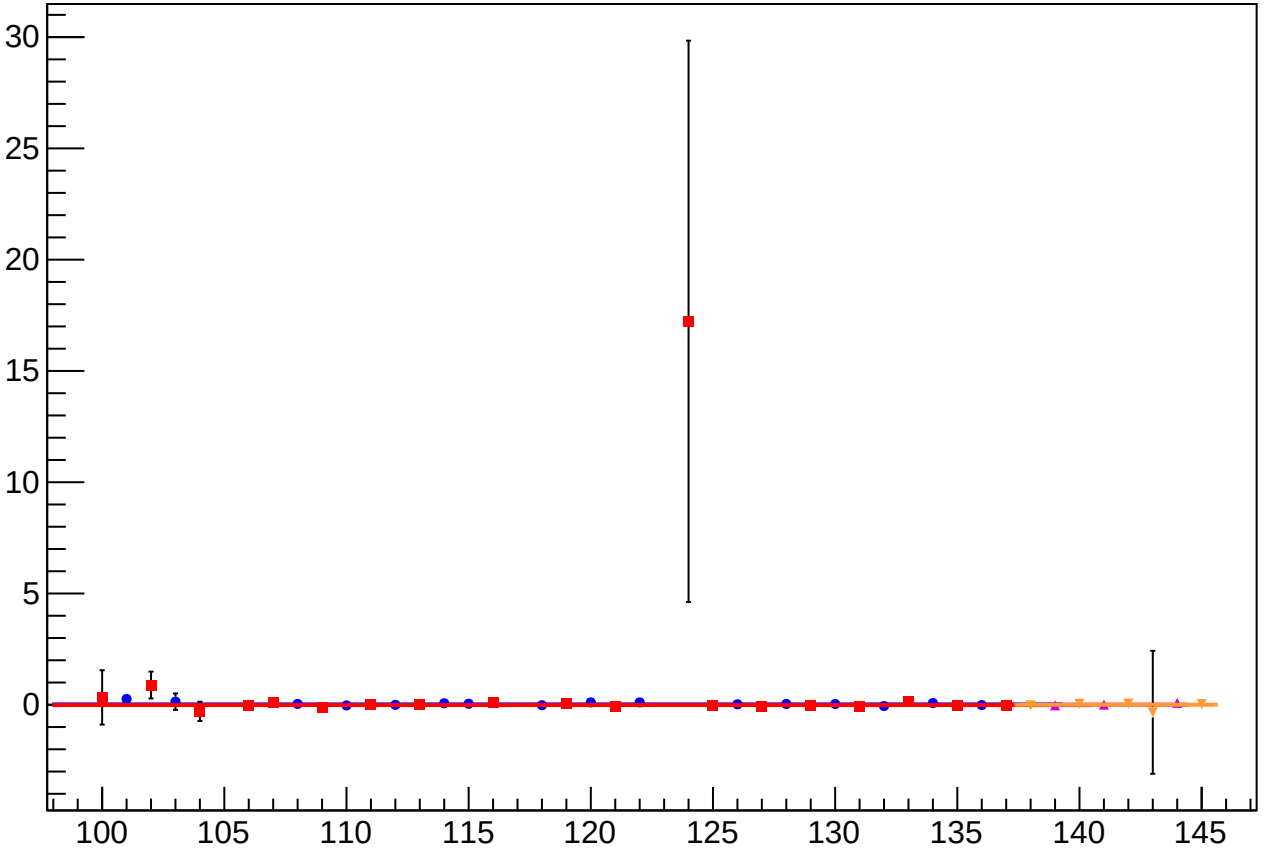
In: -0.000+/-0.000 $\chi^2$/NDF:14.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:30.9/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.5/42


asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 3059657.6/15
Left Out: 0.000+/-0.000 χ²/NDF:562090.0/4
Right Out: 0.000+/-0.000 χ²/NDF: 3348571.5/18
Left In: 0.000+/-0.000 χ²/NDF:352869.2/2
Left: 0.000+/-0.000 χ²/NDF: 923971.2/7
Right: 0.000+/-0.000 χ²/NDF: 6408892.5/34
In: 0.000+/-0.000 χ²/NDF:3883403.5/18
Out: 0.000+/-0.000 χ²/NDF:4492735.3/23
All: 0.000+/-0.000 χ²/NDF: 8407771.8/42

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: 0.003+/-0.020 $\chi^2$/NDF:3.1/4

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.004+/-0.022 $\chi^2$/NDF:3.4/2

Left: 0.004+/-0.015 $\chi^2$/NDF: 6.5/7

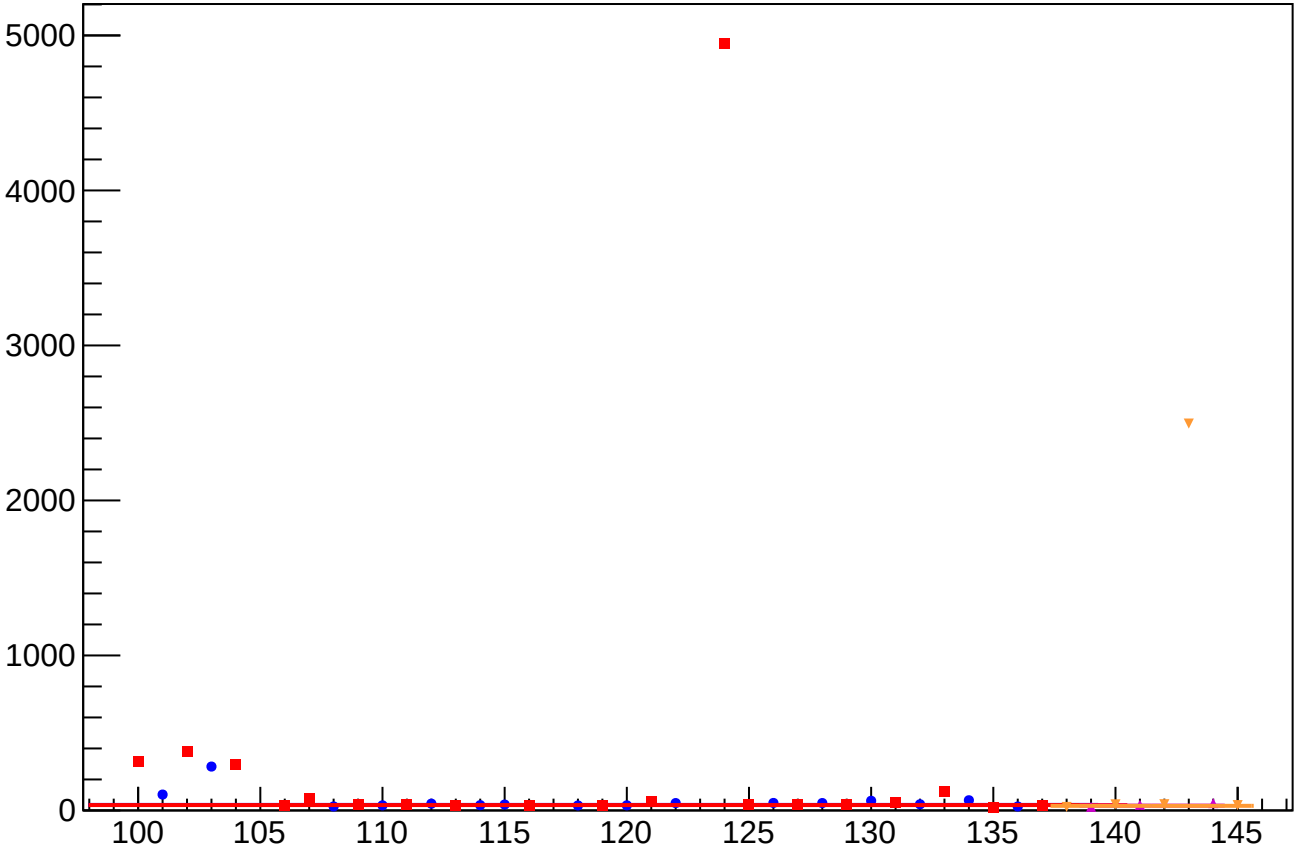
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.013 $\chi^2$/NDF:15.1/18

Out: -0.007+/-0.012 $\chi^2$/NDF:19.5/23

All: 0.002+/-0.009 $\chi^2$/NDF: 35.9/42

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: 29.891+/-0.014 $\chi^2$/NDF:1894945.5/4

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 31.218+/-0.016 $\chi^2$/NDF:364744.1/2

Left: 30.486+/-0.010 $\chi^2$/NDF: 2263711.7/7

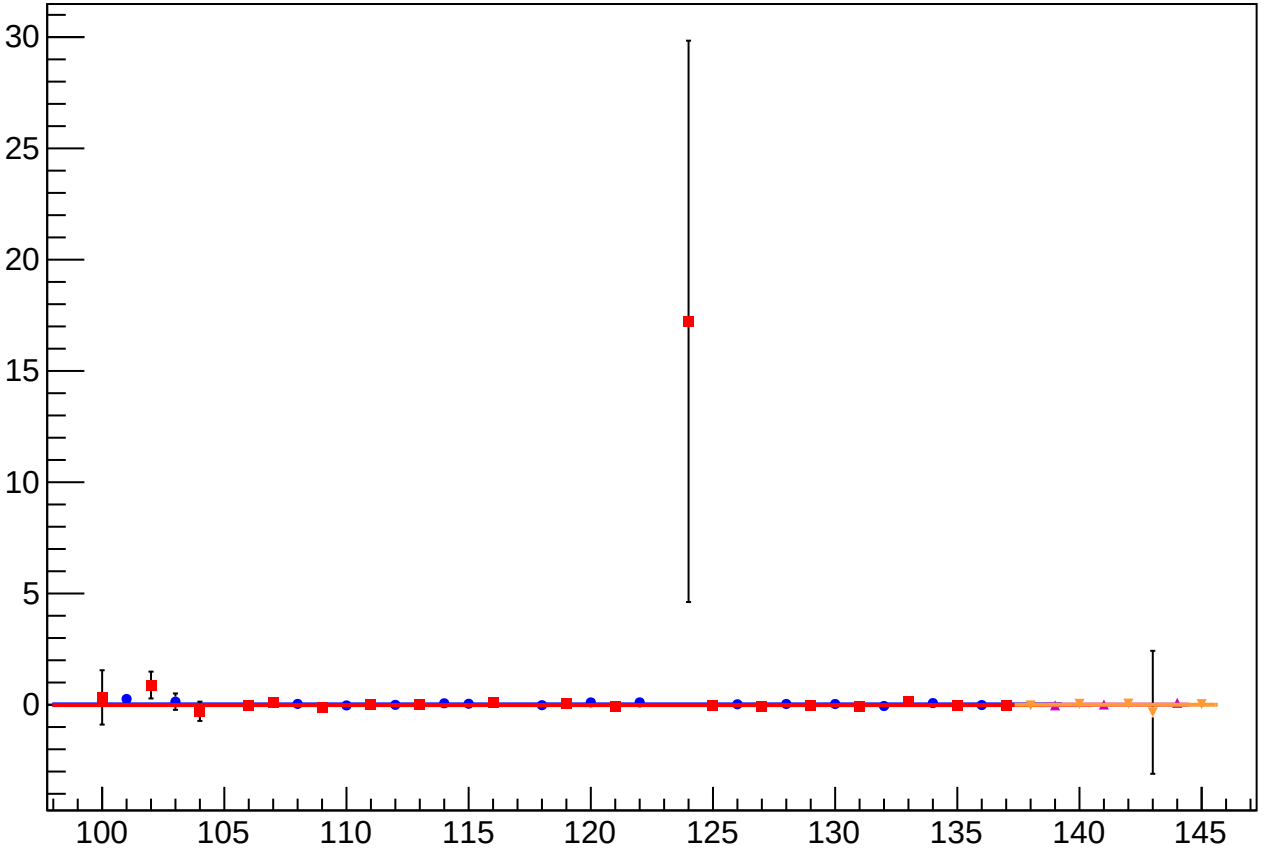
Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 34.247+/-0.009 $\chi^2$/NDF:2686210.2/18

Out: 32.917+/-0.009 $\chi^2$/NDF:4884680.9/23

All: 33.562+/-0.006 $\chi^2$/NDF: 7582299.5/42

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: 0.003+/-0.020 $\chi^2$/NDF:3.1/4

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.004+/-0.022 $\chi^2$/NDF:3.4/2

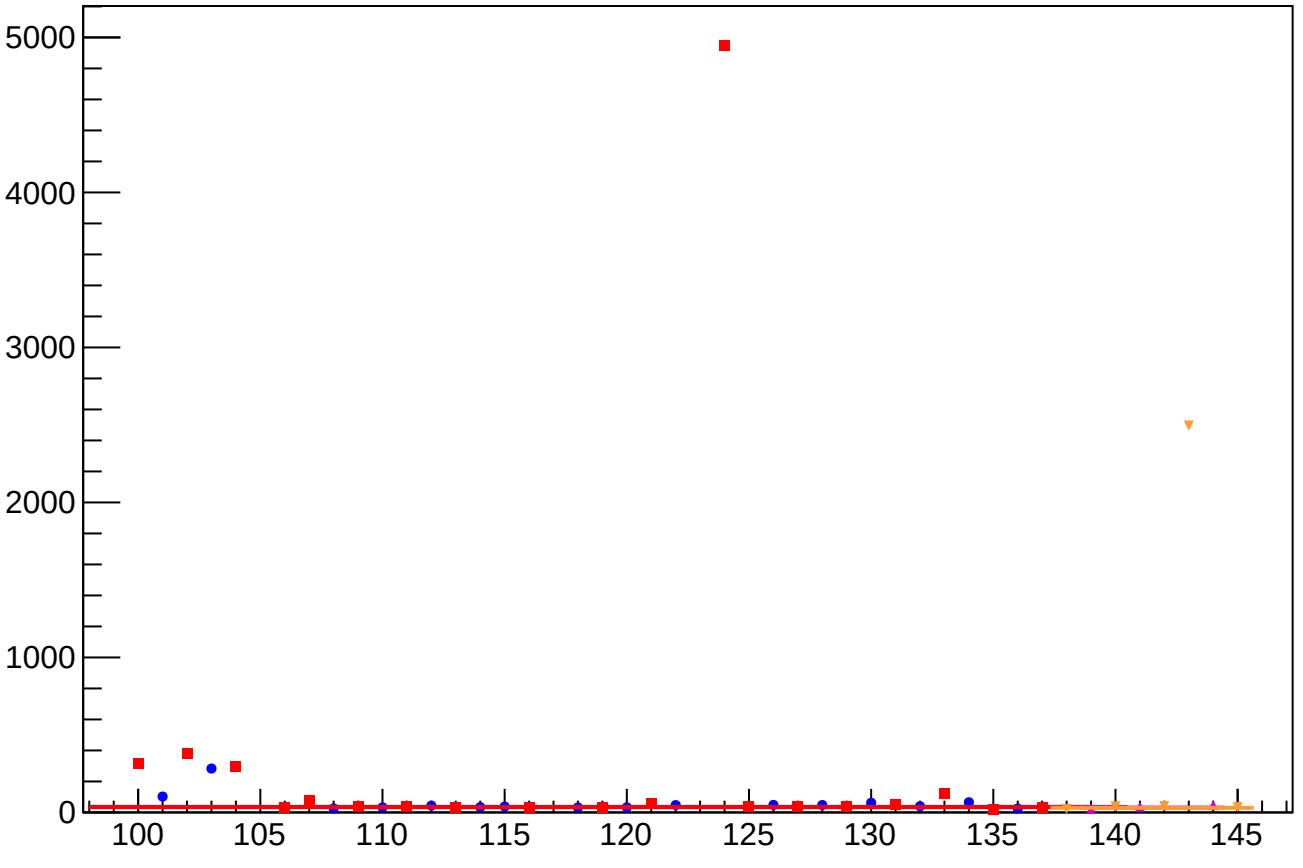
Left: 0.004+/-0.015 $\chi^2$/NDF: 6.5/7

Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.013 $\chi^2$/NDF:15.1/18

Out: -0.007+/-0.012 $\chi^2$/NDF:19.5/23

All: 0.002+/-0.009 $\chi^2$/NDF: 35.9/42




Right In: 35.742+/-0.011 $\chi^2$/NDF: 2264790.8/15

Left Out: 29.891+/-0.014 $\chi^2$/NDF:1894945.5/4

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 31.218+/-0.016 $\chi^2$/NDF:364744.1/2

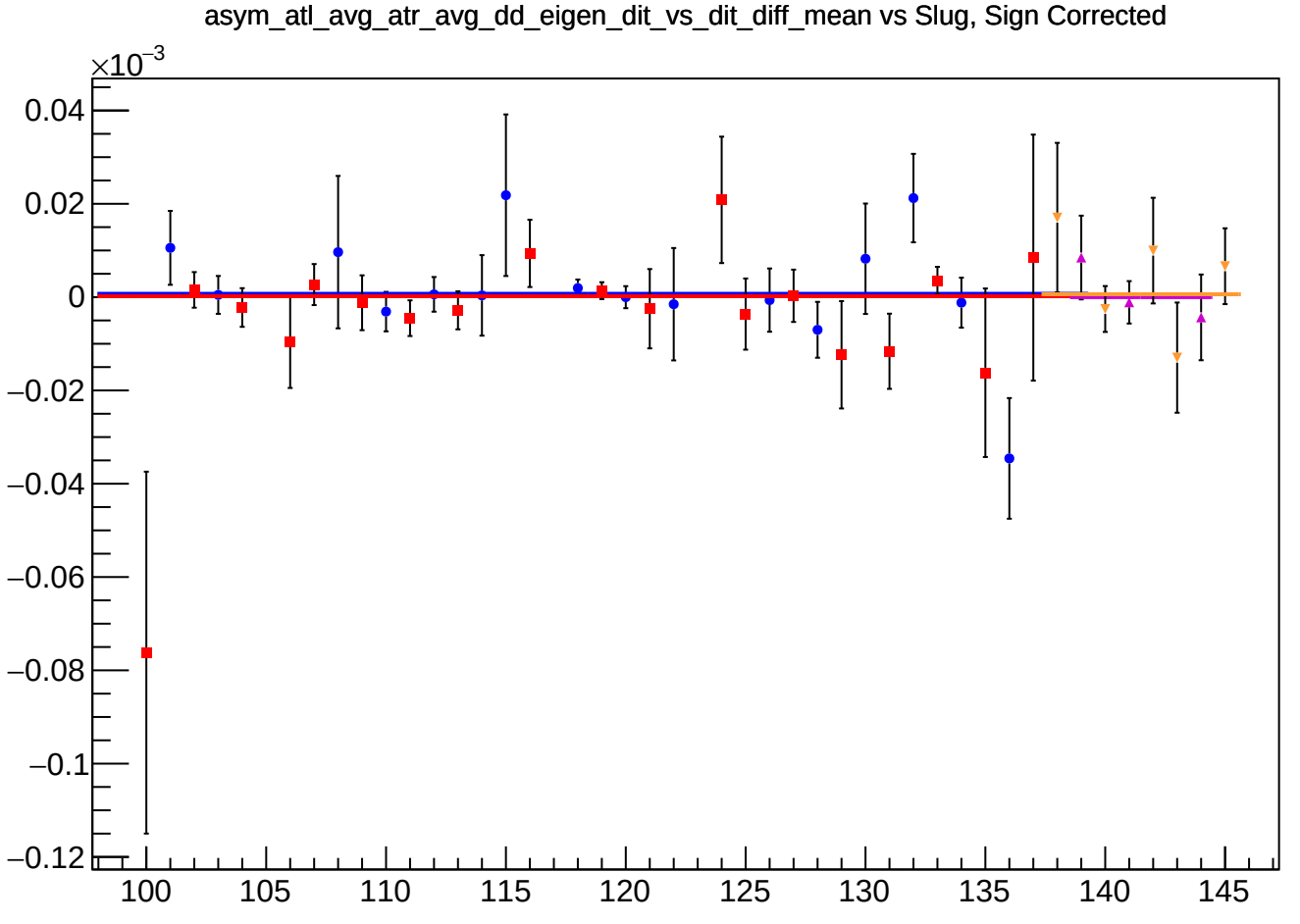
Left: 30.486+/-0.010 $\chi^2$/NDF: 2263711.7/7

Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 34.247+/-0.009 $\chi^2$/NDF:2686210.2/18

Out: 32.917+/-0.009 $\chi^2$/NDF:4884680.9/23

All: 33.562+/-0.006 $\chi^2$/NDF: 7582299.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.2/2

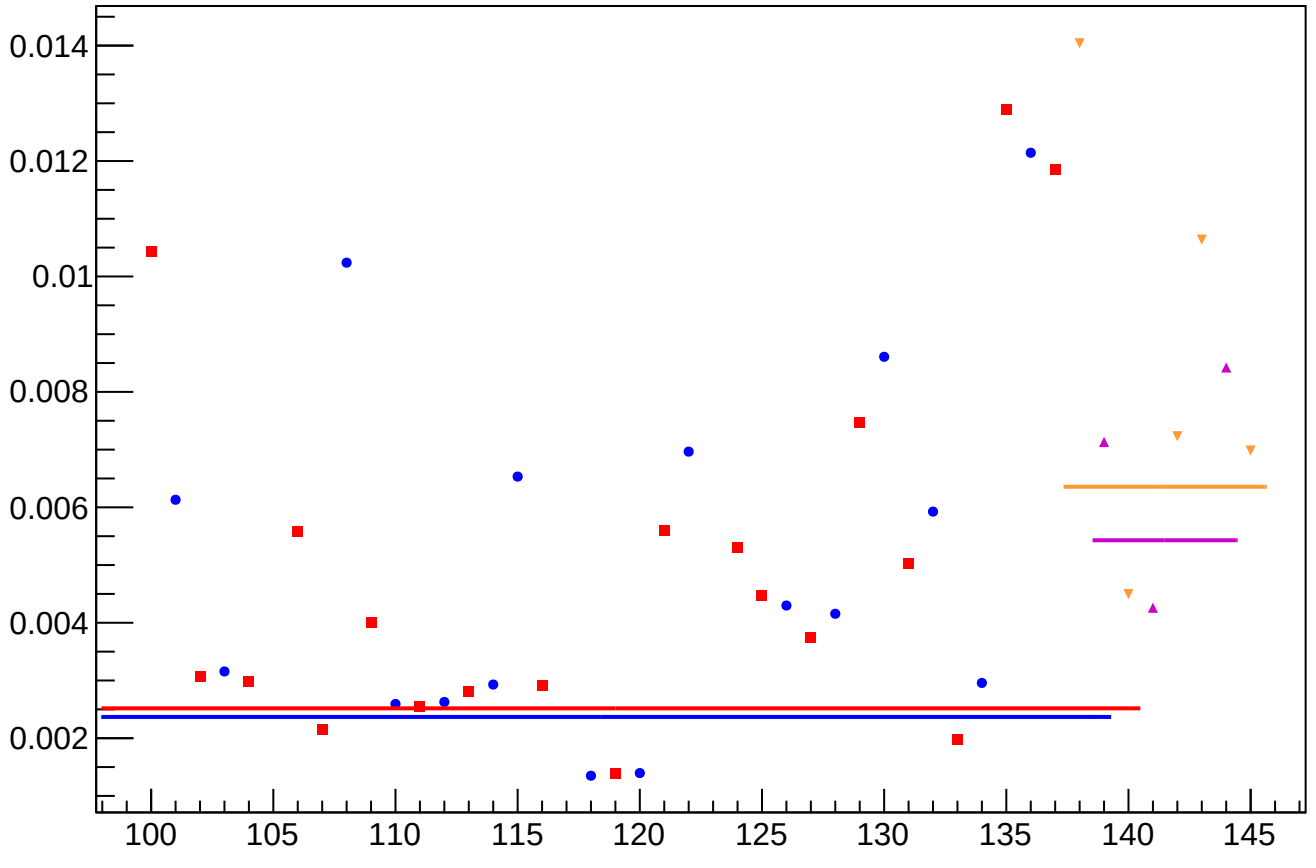
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 42.5/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4721602.1/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:1032290.1/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3397462.9/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:416679.3/2

Left: 0.006+/-0.000 $\chi^2$/NDF: 1512549.6/7

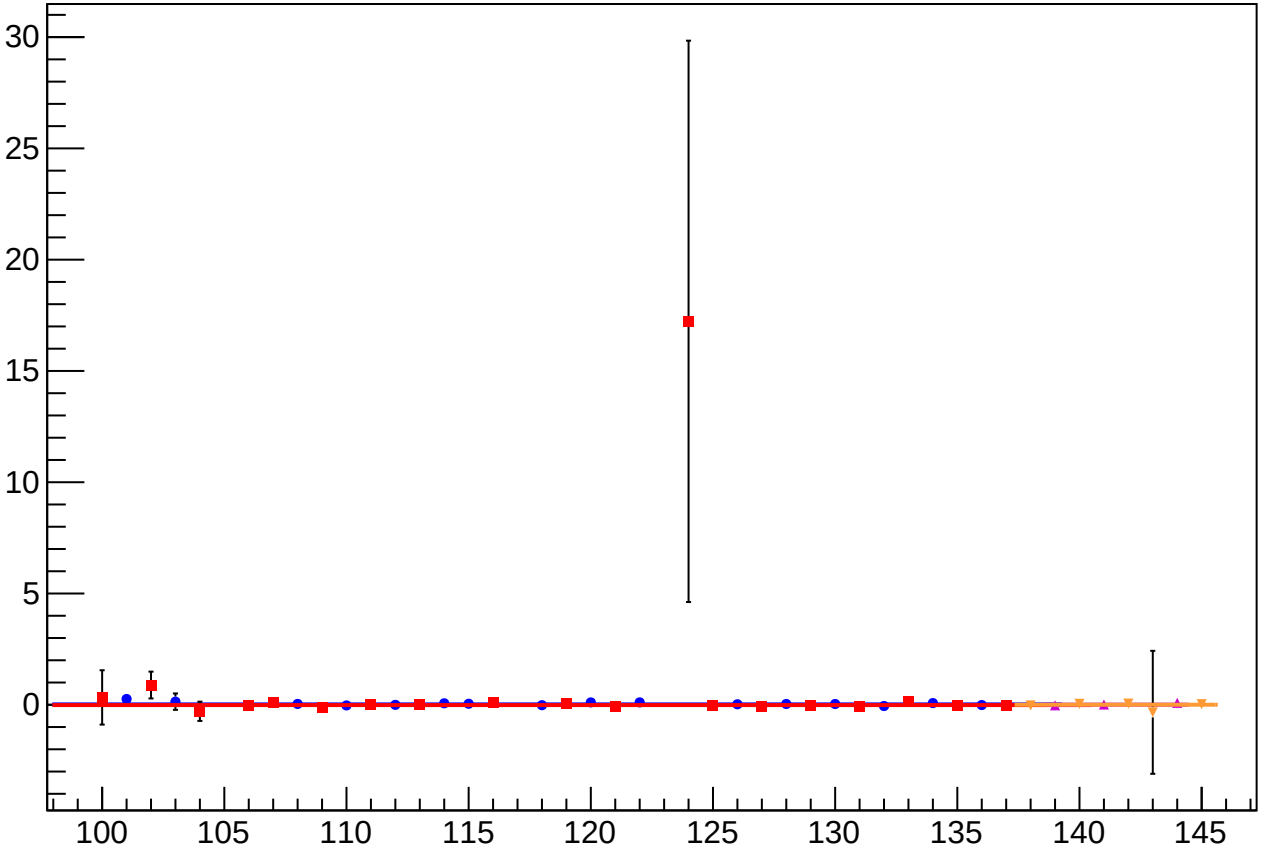
Right: 0.002+/-0.000 $\chi^2$/NDF: 8137943.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:6389579.1/18

Out: 0.003+/-0.000 $\chi^2$/NDF:6475939.6/23

All: 0.003+/-0.000 $\chi^2$/NDF: 12902737.7/42

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: 0.003+/-0.020 $\chi^2$/NDF:3.1/4

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.004+/-0.022 $\chi^2$/NDF:3.4/2

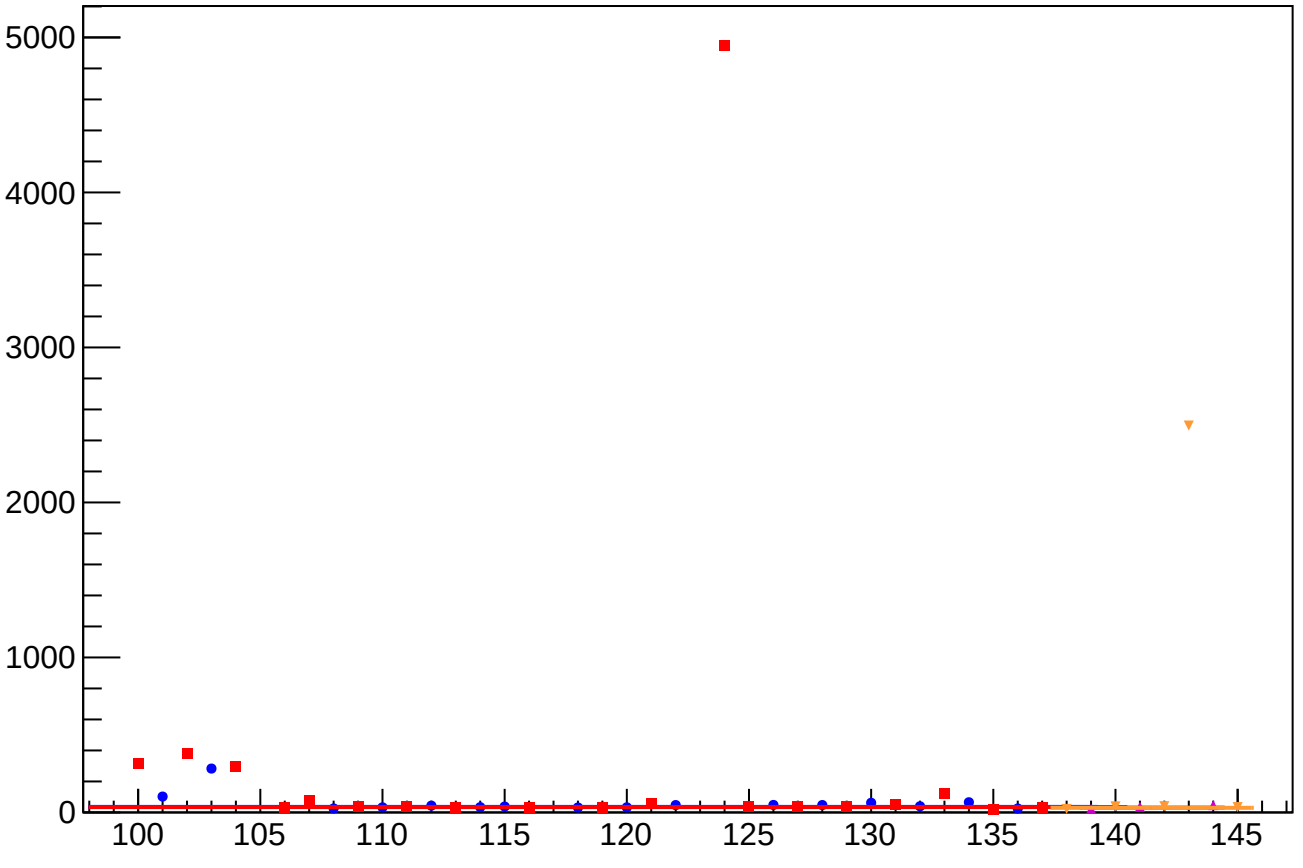
Left: 0.004+/-0.015 $\chi^2$/NDF: 6.5/7

Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.013 $\chi^2$/NDF:15.1/18

Out: -0.007+/-0.012 $\chi^2$/NDF:19.5/23

All: 0.002+/-0.009 $\chi^2$/NDF: 35.9/42




Right In: 35.743+/-0.011 $\chi^2$/NDF: 2264513.9/15

Left Out: 29.892+/-0.014 $\chi^2$/NDF:1895152.8/4

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 31.214+/-0.016 $\chi^2$/NDF:365054.7/2

Left: 30.485+/-0.010 $\chi^2$/NDF: 2264202.3/7

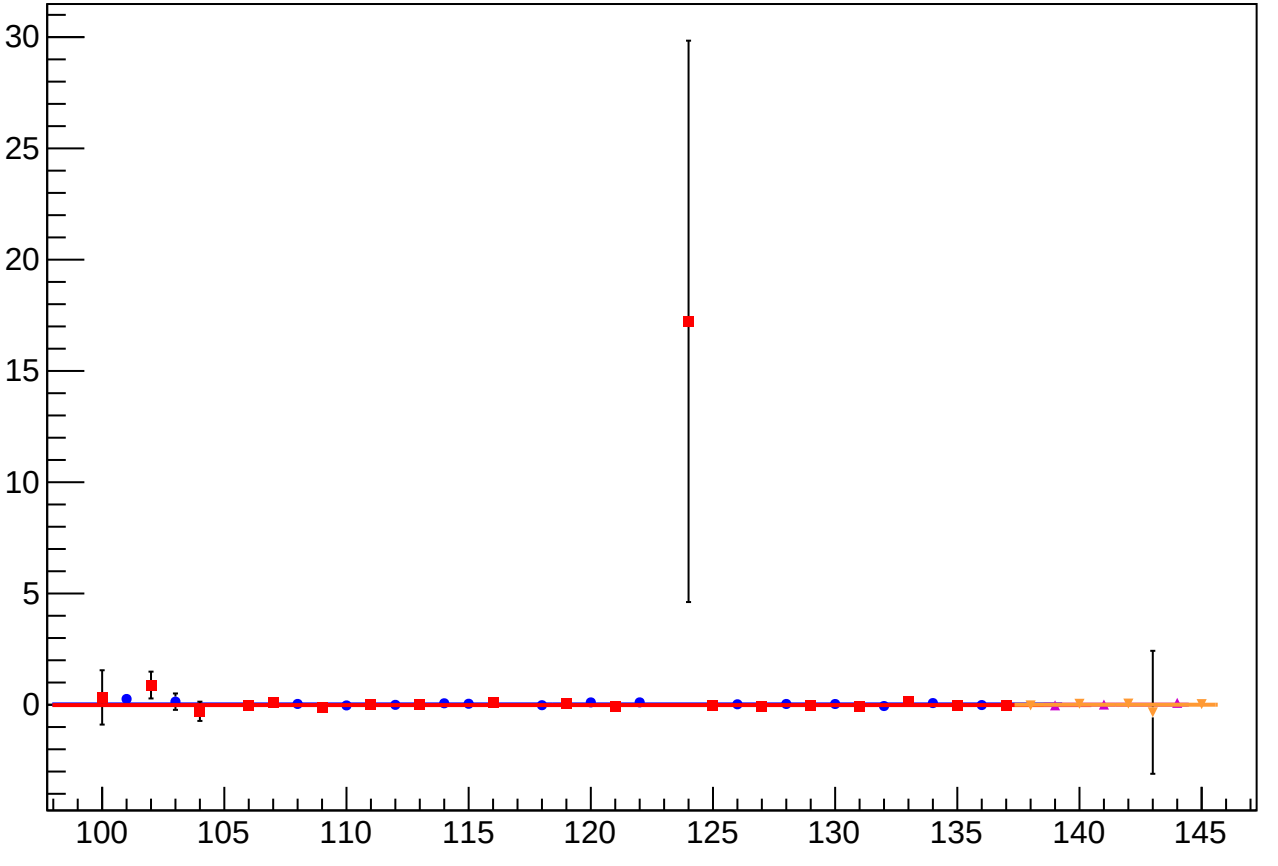
Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 34.247+/-0.009 $\chi^2$/NDF:2686385.5/18

Out: 32.918+/-0.009 $\chi^2$/NDF:4884721.2/23

All: 33.562+/-0.006 $\chi^2$/NDF: 7582492.8/42

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: 0.003+/-0.020 $\chi^2$/NDF:3.1/4

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.004+/-0.022 $\chi^2$/NDF:3.4/2

Left: 0.004+/-0.015 $\chi^2$/NDF: 6.5/7

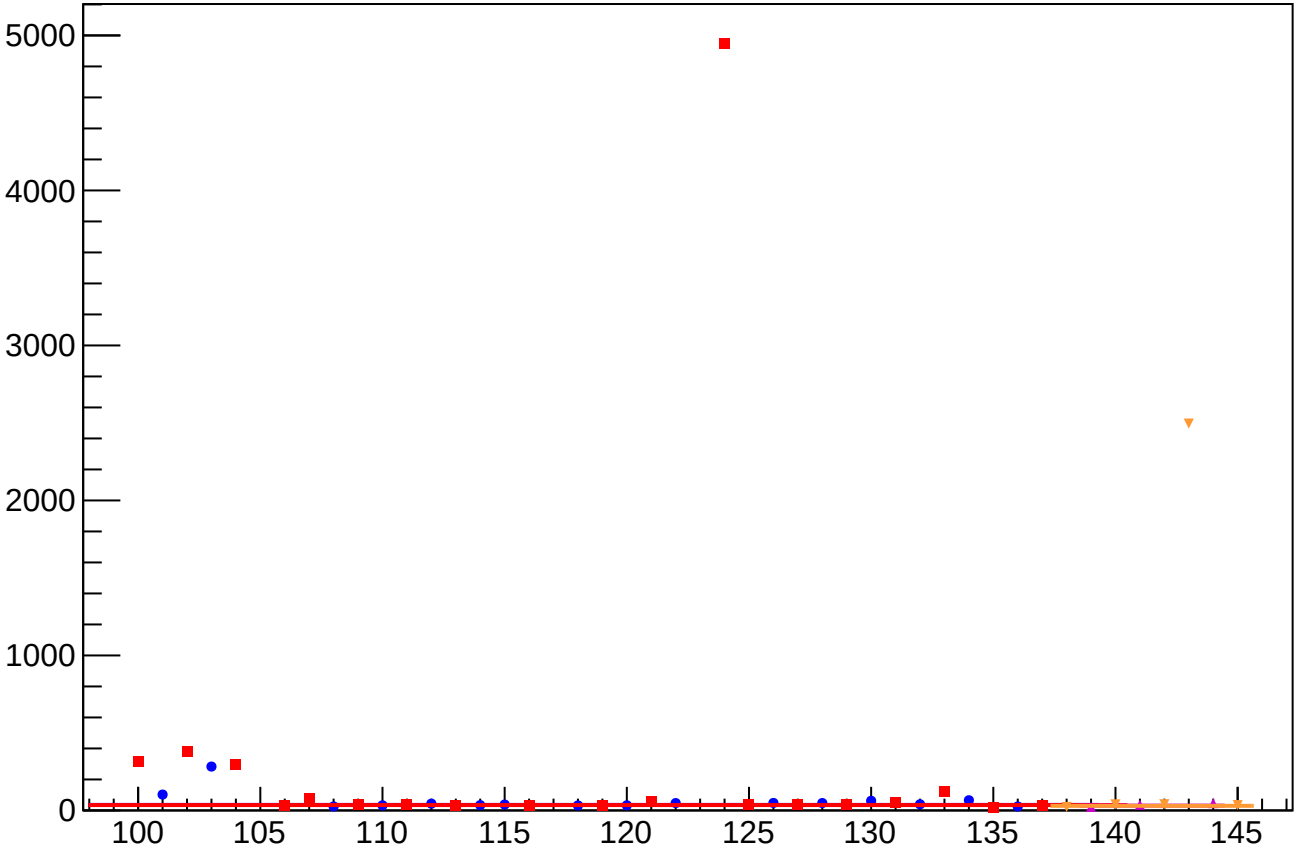
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.013 $\chi^2$/NDF:15.1/18

Out: -0.007+/-0.012 $\chi^2$/NDF:19.5/23

All: 0.002+/-0.009 $\chi^2$/NDF: 35.9/42

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: 29.892+/-0.014 $\chi^2$/NDF:1895152.8/4

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 31.214+/-0.016 $\chi^2$/NDF:365054.7/2

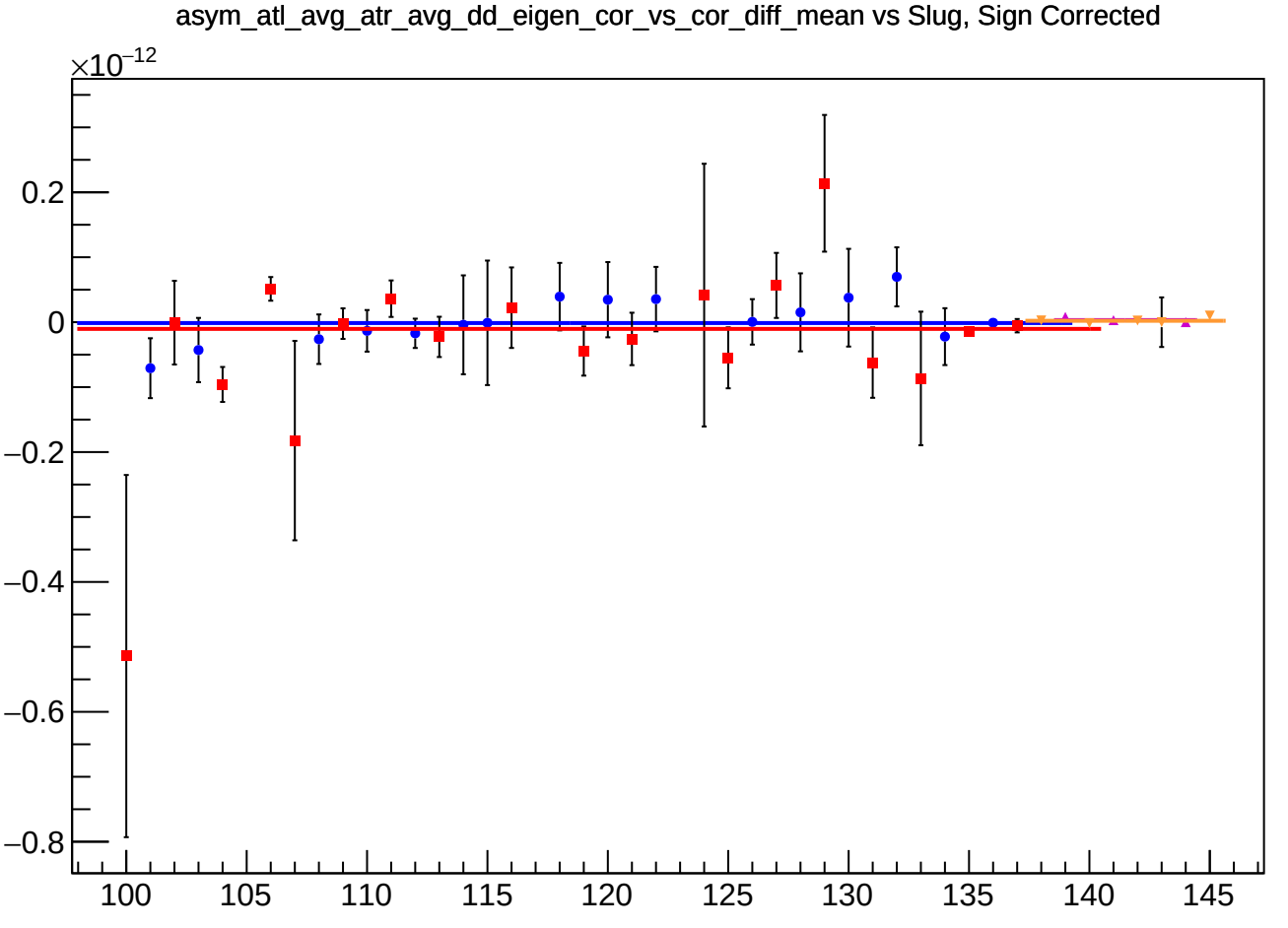
Left: 30.485+/-0.010 $\chi^2$/NDF: 2264202.3/7

Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 34.247+/-0.009 $\chi^2$/NDF:2686385.5/18

Out: 32.918+/-0.009 $\chi^2$/NDF:4884721.2/23

All: 33.562+/-0.006 $\chi^2$/NDF: 7582492.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.4/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 39.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/2

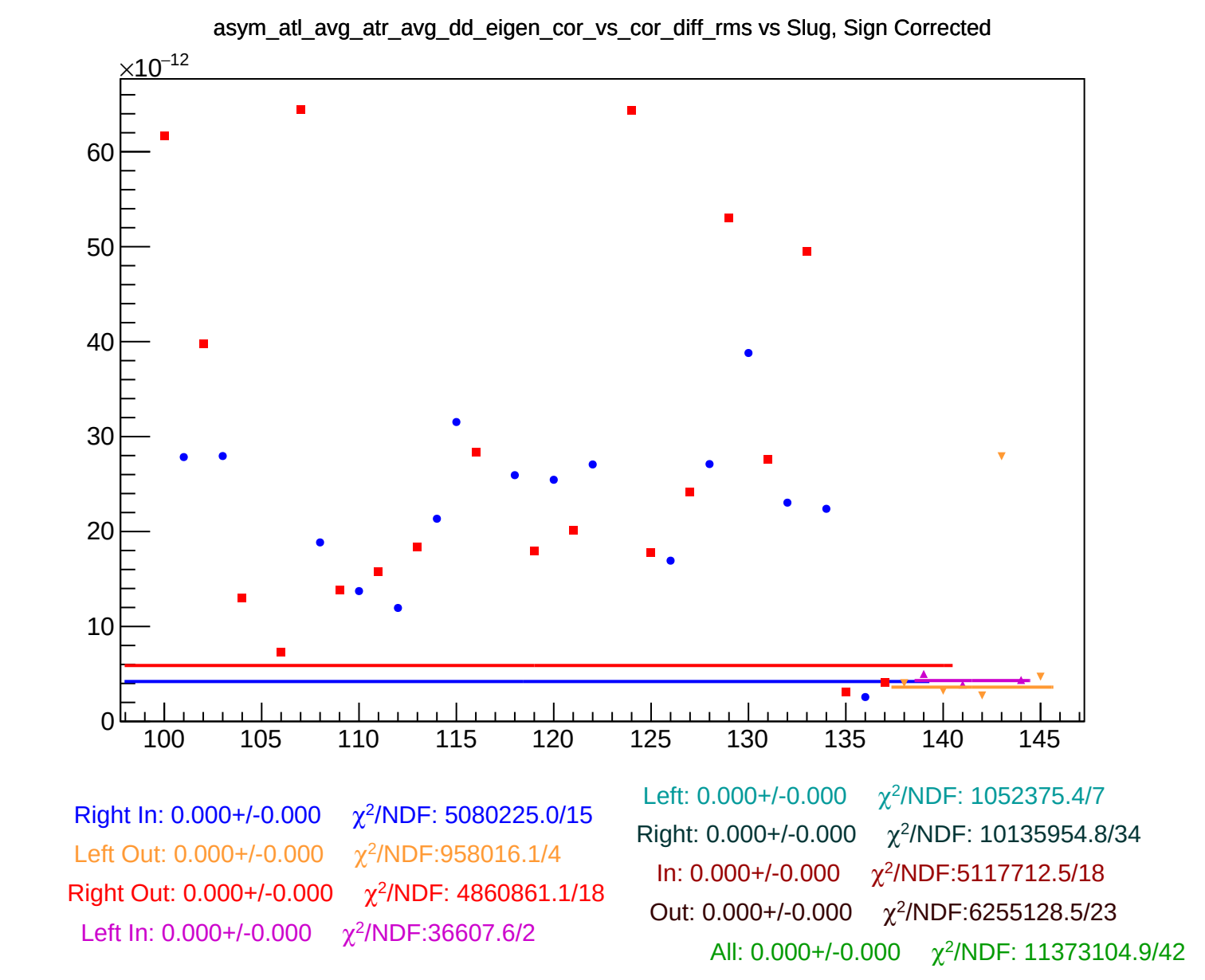
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.4/7

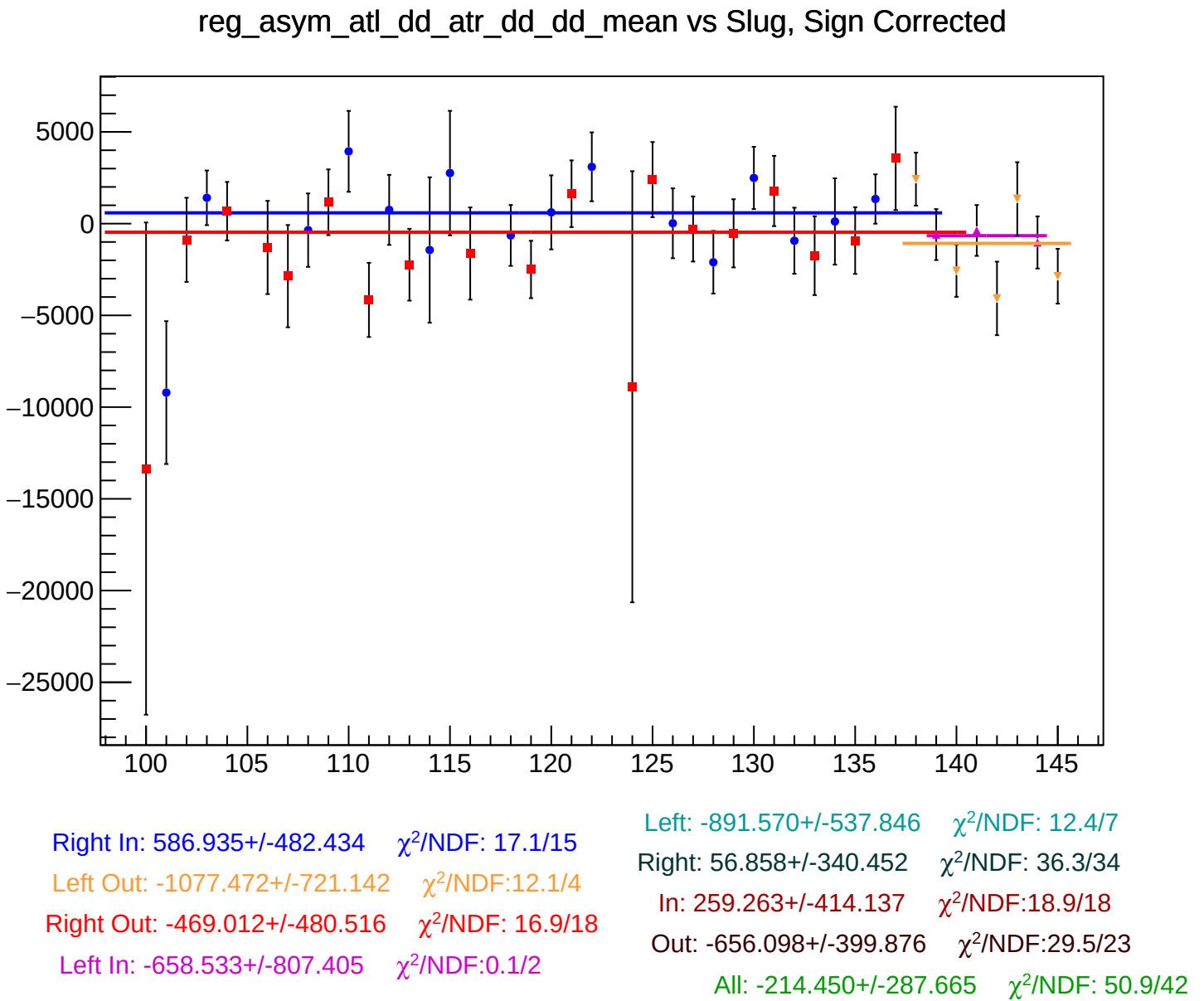
Right: -0.000+/-0.000 $\chi^2$/NDF: 51.3/34

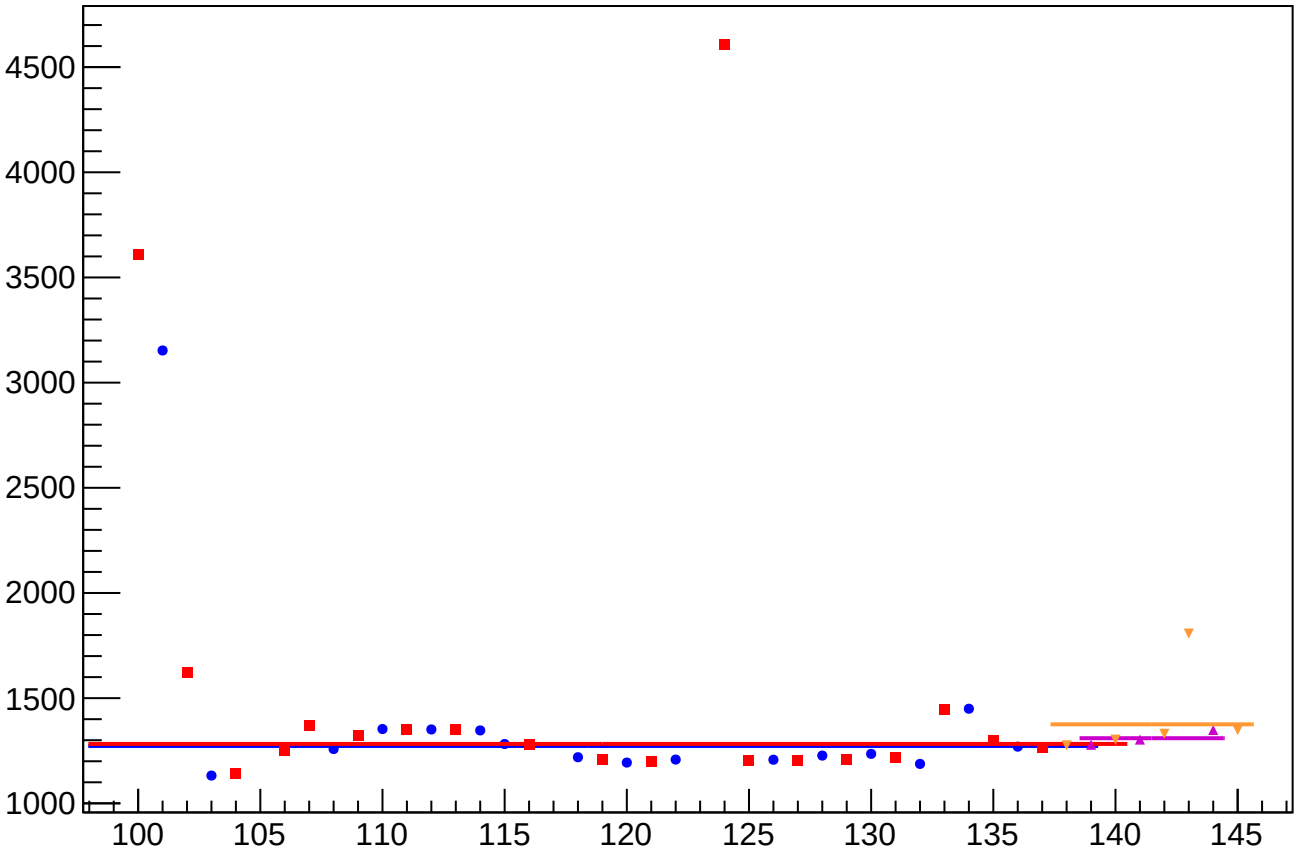
In: 0.000+/-0.000 $\chi^2$/NDF:10.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:48.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 59.8/42


asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 5080225.0/15
Left Out: 0.000+/-0.000 χ²/NDF:958016.1/4
Right Out: 0.000+/-0.000 χ²/NDF: 4860861.1/18
Left In: 0.000+/-0.000 χ²/NDF:36607.6/2
Left: 0.000+/-0.000 χ²/NDF: 1052375.4/7
Right: 0.000+/-0.000 χ²/NDF: 10135954.8/34
In: 0.000+/-0.000 χ²/NDF:5117712.5/18
Out: 0.000+/-0.000 χ²/NDF:6255128.5/23
All: 0.000+/-0.000 χ²/NDF: 11373104.9/42


reg_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 586.935+/-482.434 χ²/NDF: 17.1/15
Left Out: -1077.472+/-721.142 χ²/NDF:12.1/4
Right Out: -469.012+/-480.516 χ²/NDF: 16.9/18
Left In: -658.533+/-807.405 χ²/NDF:0.1/2
Left: -891.570+/-537.846 χ²/NDF: 12.4/7
Right: 56.858+/-340.452 χ²/NDF: 36.3/34
In: 259.263+/-414.137 χ²/NDF:18.9/18
Out: -656.098+/-399.876 χ²/NDF:29.5/23
All: -214.450+/-287.665 χ²/NDF: 50.9/42




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519298.2/15

Left Out: 1375.506+/-0.510 $\chi^2$/NDF:109581.1/4

Right Out: 1282.365+/-0.340 $\chi^2$/NDF: 322078.6/18

Left In: 1309.552+/-0.571 $\chi^2$/NDF:2556.9/2

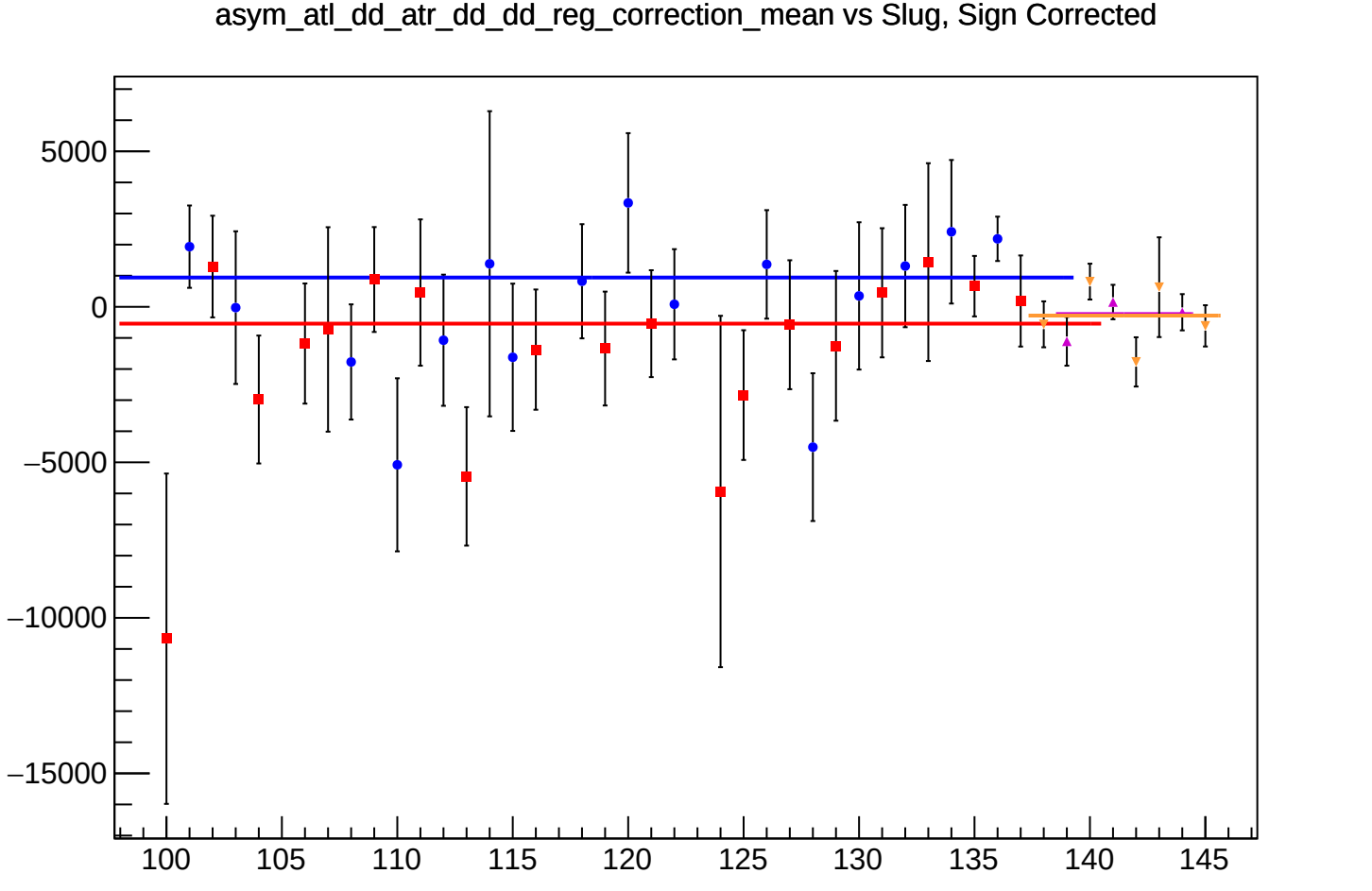
Left: 1346.239+/-0.380 $\chi^2$/NDF: 119561.5/7

Right: 1277.604+/-0.241 $\chi^2$/NDF: 841771.1/34

In: 1282.472+/-0.293 $\chi^2$/NDF:524907.9/18

Out: 1311.003+/-0.283 $\chi^2$/NDF:454764.8/23

All: 1297.237+/-0.203 $\chi^2$/NDF: 984585.3/42




Right In: 941.759+/-425.837 $\chi^2$/NDF: 19.9/15

Left Out: -281.339+/-331.499 $\chi^2$/NDF:7.8/4

Right Out: -540.622+/-439.905 $\chi^2$/NDF: 17.2/18

Left In: -232.003+/-357.484 $\chi^2$/NDF:1.7/2

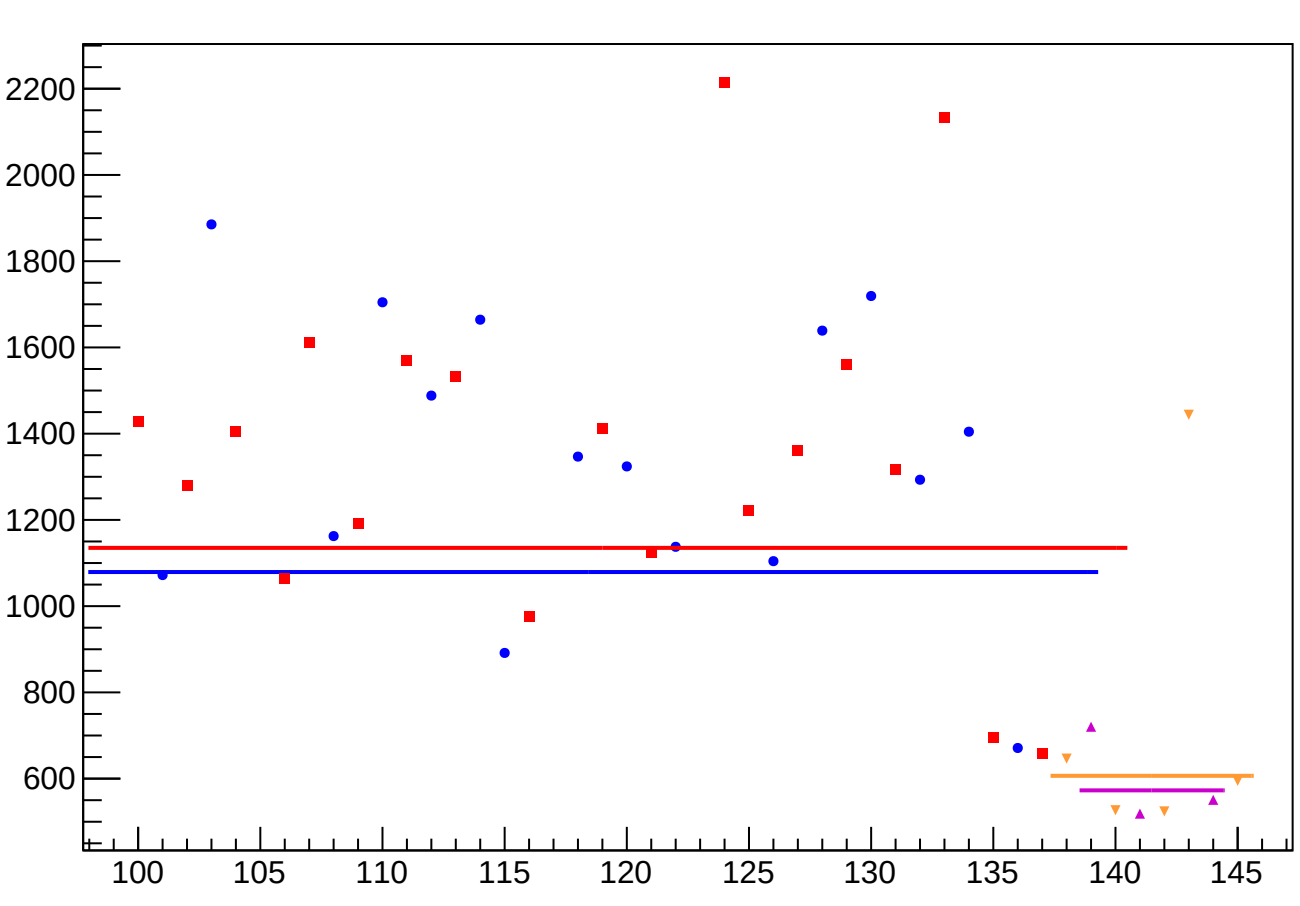
Left: -258.529+/-243.073 $\chi^2$/NDF: 9.6/7

Right: 224.651+/-305.965 $\chi^2$/NDF: 42.9/34

In: 253.230+/-273.797 $\chi^2$/NDF:26.1/18

Out: -375.249+/-264.745 $\chi^2$/NDF:25.2/23

All: -71.570+/-190.323 $\chi^2$/NDF: 54.1/42




Right In: 1079.120+/-0.301 $\chi^2$/NDF: 1482232.0/15

Left Out: 606.541+/-0.234 $\chi^2$/NDF:611893.3/4

Right Out: 1135.161+/-0.311 $\chi^2$/NDF: 1293082.2/18

Left In: 572.777+/-0.253 $\chi^2$/NDF:92673.4/2

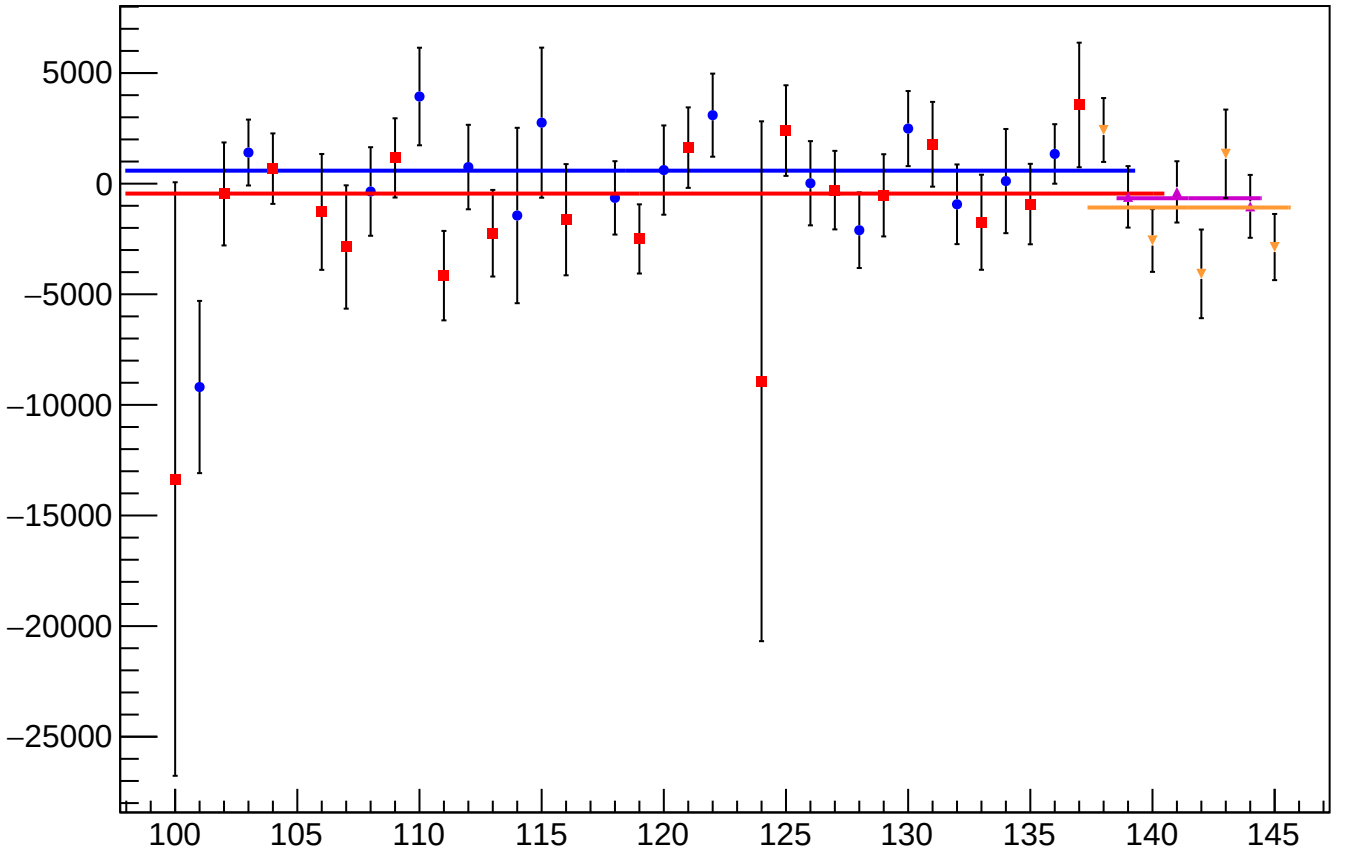
Left: 590.930+/-0.172 $\chi^2$/NDF: 714159.1/7

Right: 1106.230+/-0.216 $\chi^2$/NDF: 2792070.7/34

In: 782.099+/-0.194 $\chi^2$/NDF:3233633.2/18

Out: 798.002+/-0.187 $\chi^2$/NDF:3746980.1/23

All: 790.318+/-0.135 $\chi^2$/NDF: 6984100.4/42




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -1077.583+/-721.142 $\chi^2$/NDF:12.1/4

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -658.531+/-807.405 $\chi^2$/NDF:0.1/2

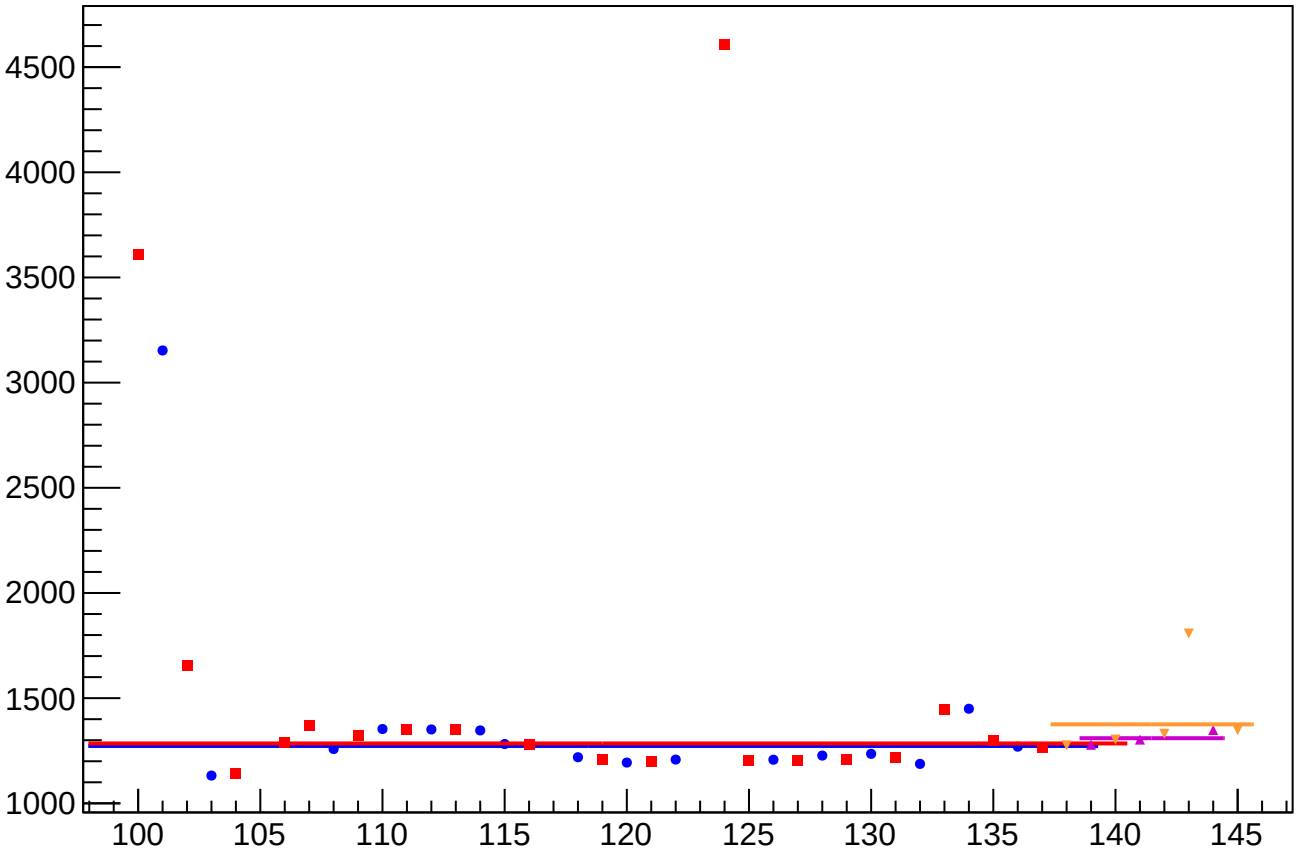
Left: -891.631+/-537.846 $\chi^2$/NDF: 12.4/7

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 259.499+/-414.138 $\chi^2$/NDF:18.9/18

Out: -642.322+/-400.347 $\chi^2$/NDF:29.5/23

All: -206.676+/-287.840 $\chi^2$/NDF: 50.8/42




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1375.506+/-0.510 $\chi^2$/NDF:109581.1/4

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1309.552+/-0.571 $\chi^2$/NDF:2556.9/2

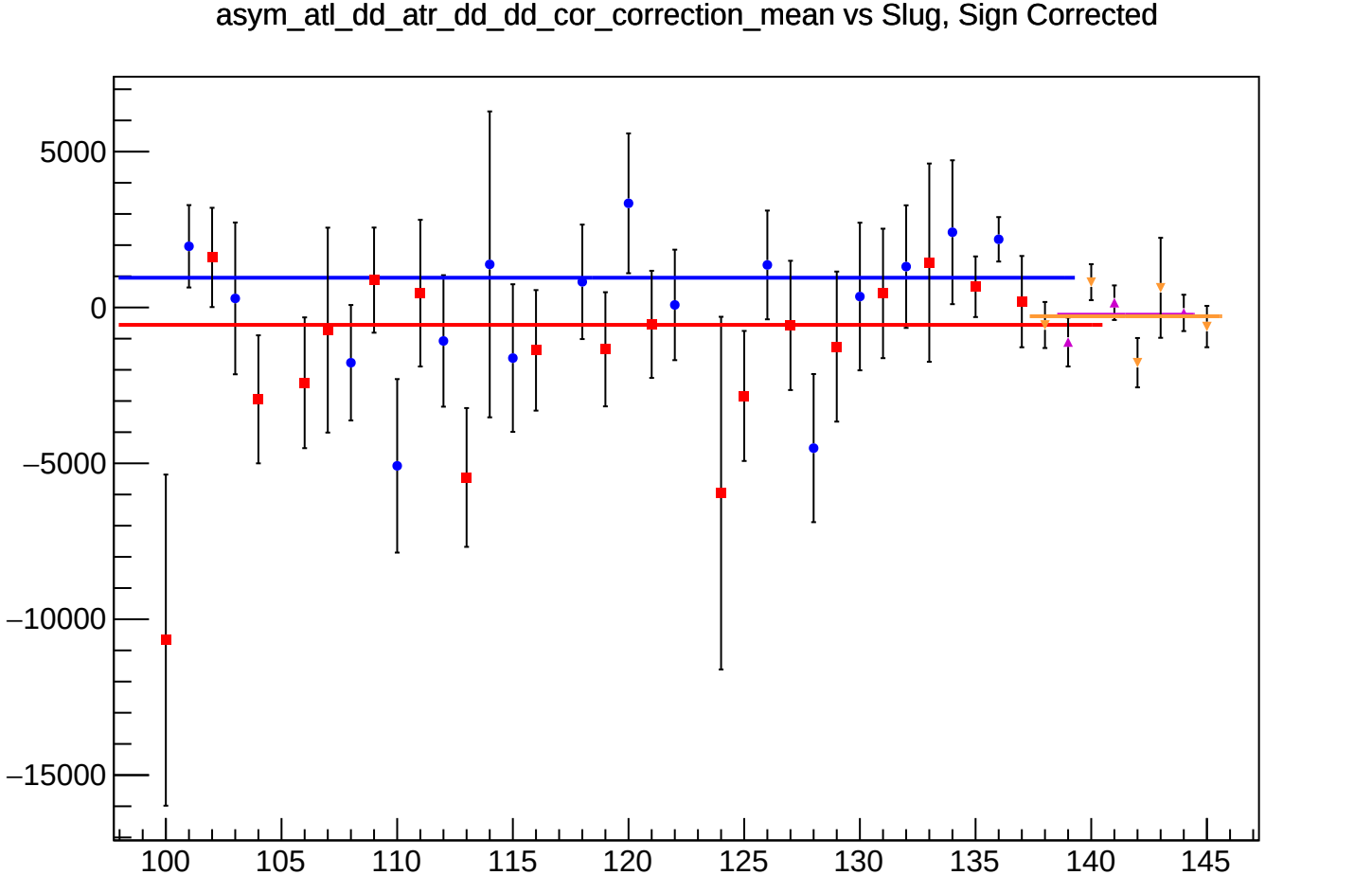
Left: 1346.239+/-0.380 $\chi^2$/NDF: 119561.5/7

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1282.472+/-0.293 $\chi^2$/NDF:524909.4/18

Out: 1312.654+/-0.283 $\chi^2$/NDF:460276.3/23

All: 1298.074+/-0.204 $\chi^2$/NDF: 990677.1/42




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: -281.296+/-331.508 $\chi^2$/NDF:7.9/4

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -232.142+/-357.478 $\chi^2$/NDF:1.7/2

Left: -258.569+/-243.075 $\chi^2$/NDF: 9.6/7

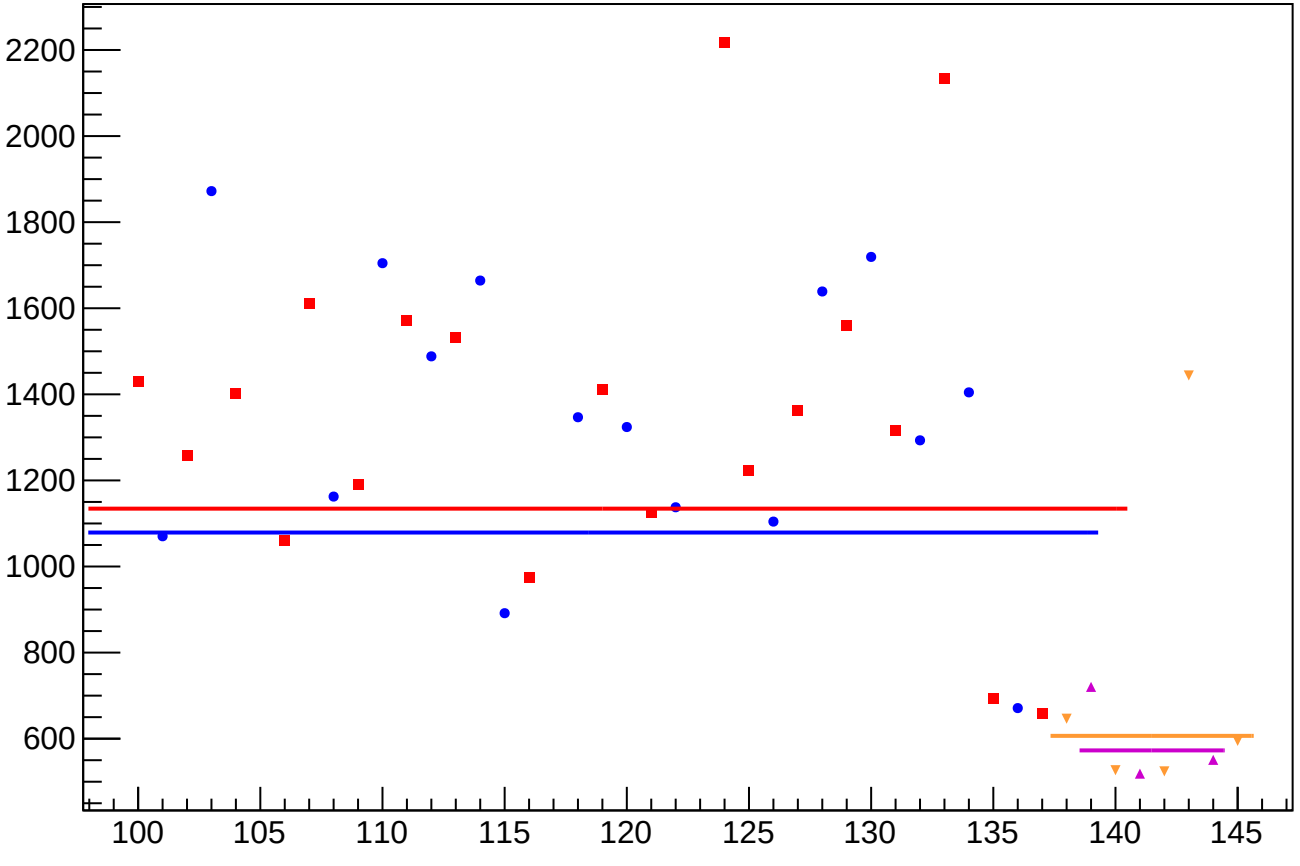
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: 258.498+/-273.747 $\chi^2$/NDF:26.2/18

Out: -381.248+/-264.935 $\chi^2$/NDF:26.5/23

All: -71.838+/-190.376 $\chi^2$/NDF: 55.5/42

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: 606.559+/-0.234 $\chi^2$/NDF:611841.7/4

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 572.766+/-0.253 $\chi^2$/NDF:92684.3/2

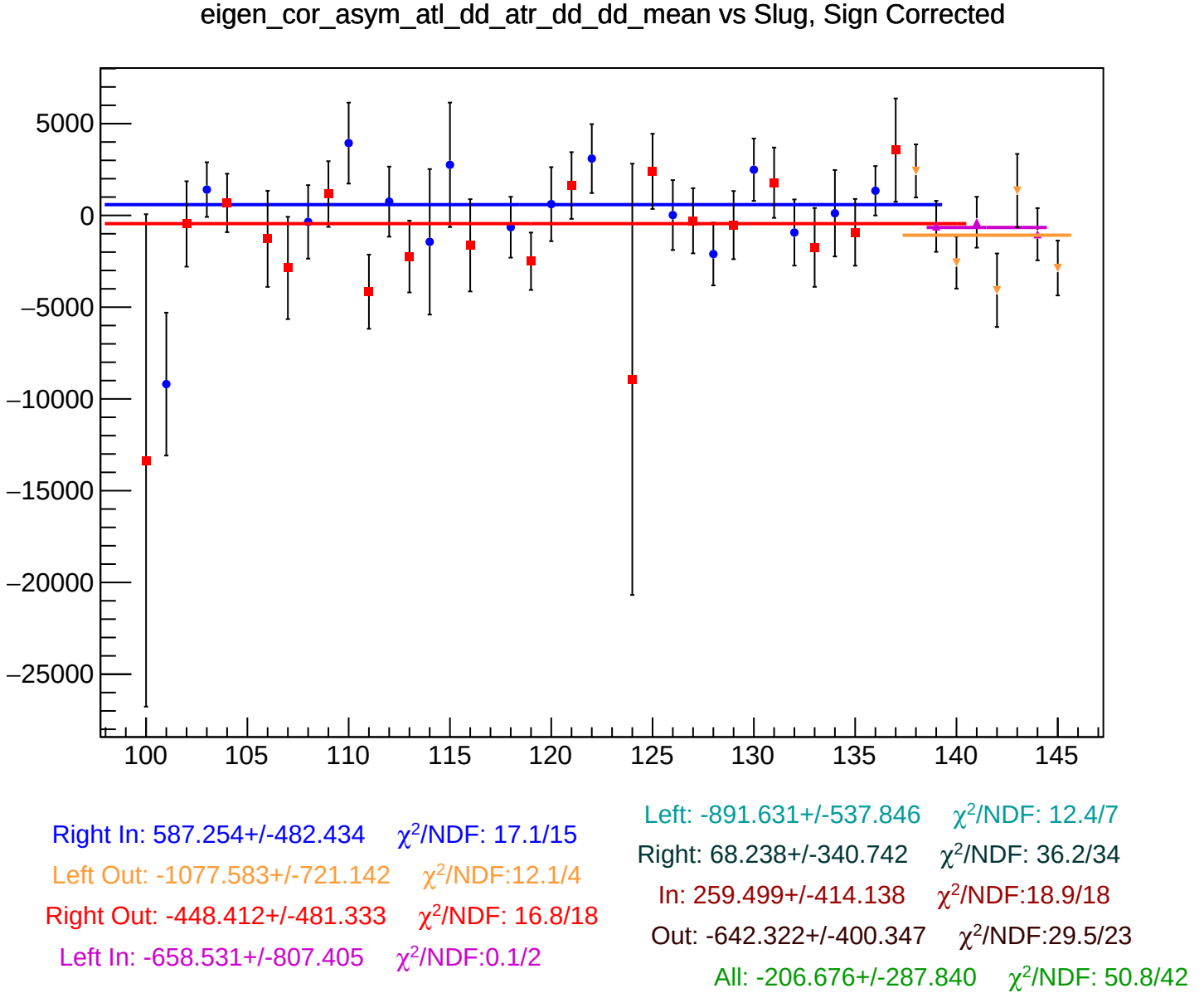
Left: 590.934+/-0.172 $\chi^2$/NDF: 714134.7/7

Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 782.112+/-0.194 $\chi^2$/NDF:3229802.5/18

Out: 797.282+/-0.187 $\chi^2$/NDF:3732945.1/23

All: 789.945+/-0.135 $\chi^2$/NDF: 6965918.9/42


eigen_cor_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
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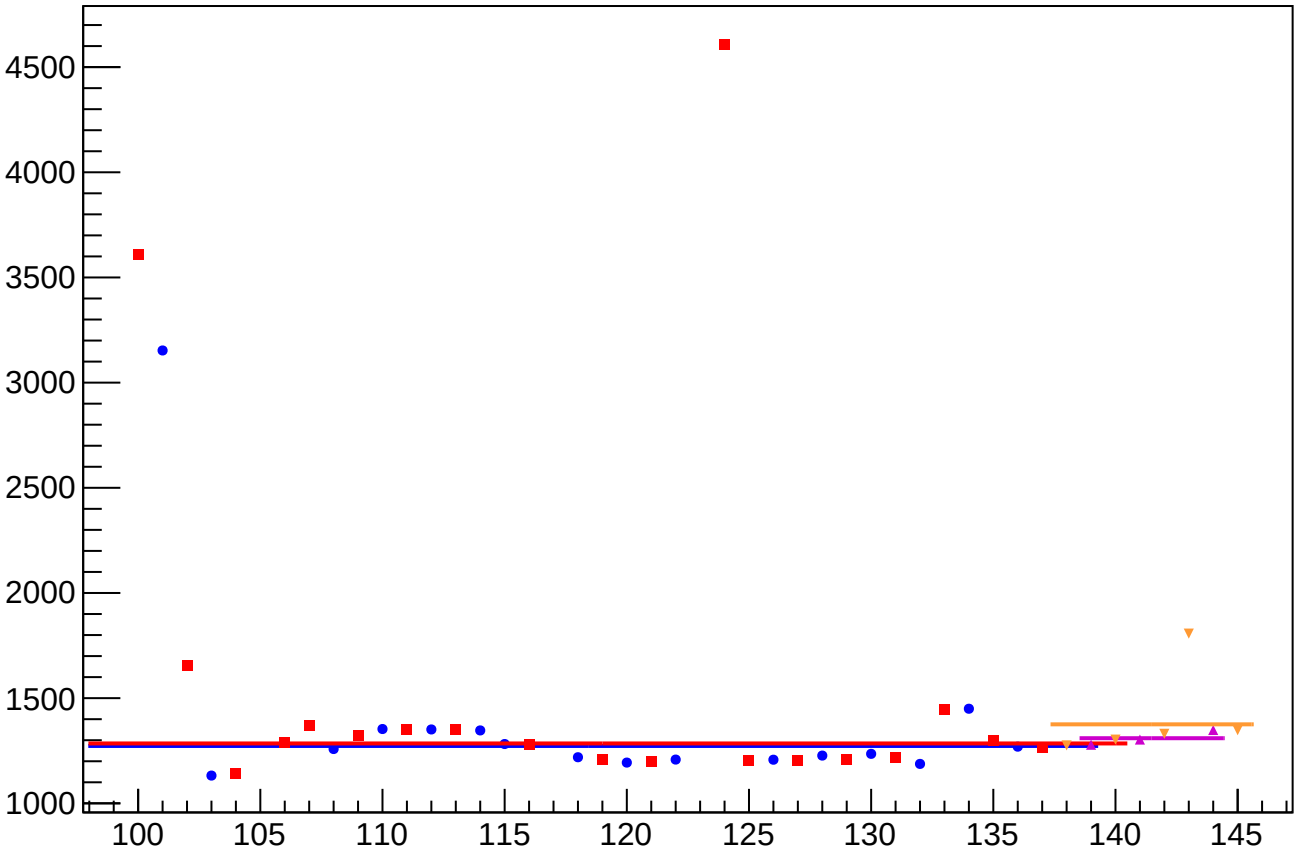
115
120
125
130
135
140
145
Right In: 587.254+/-482.434 χ²/NDF: 17.1/15
Left Out: -1077.583+/-721.142 χ²/NDF:12.1/4
Right Out: -448.412+/-481.333 χ²/NDF: 16.8/18
Left In: -658.531+/-807.405 χ²/NDF:0.1/2
Left: -891.631+/-537.846 χ²/NDF: 12.4/7
Right: 68.238+/-340.742 χ²/NDF: 36.2/34
In: 259.499+/-414.138 χ²/NDF:18.9/18
Out: -642.322+/-400.347 χ²/NDF:29.5/23
All: -206.676+/-287.840 χ²/NDF: 50.8/42




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1375.506+/-0.510 $\chi^2$/NDF:109581.1/4

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1309.552+/-0.571 $\chi^2$/NDF:2556.9/2

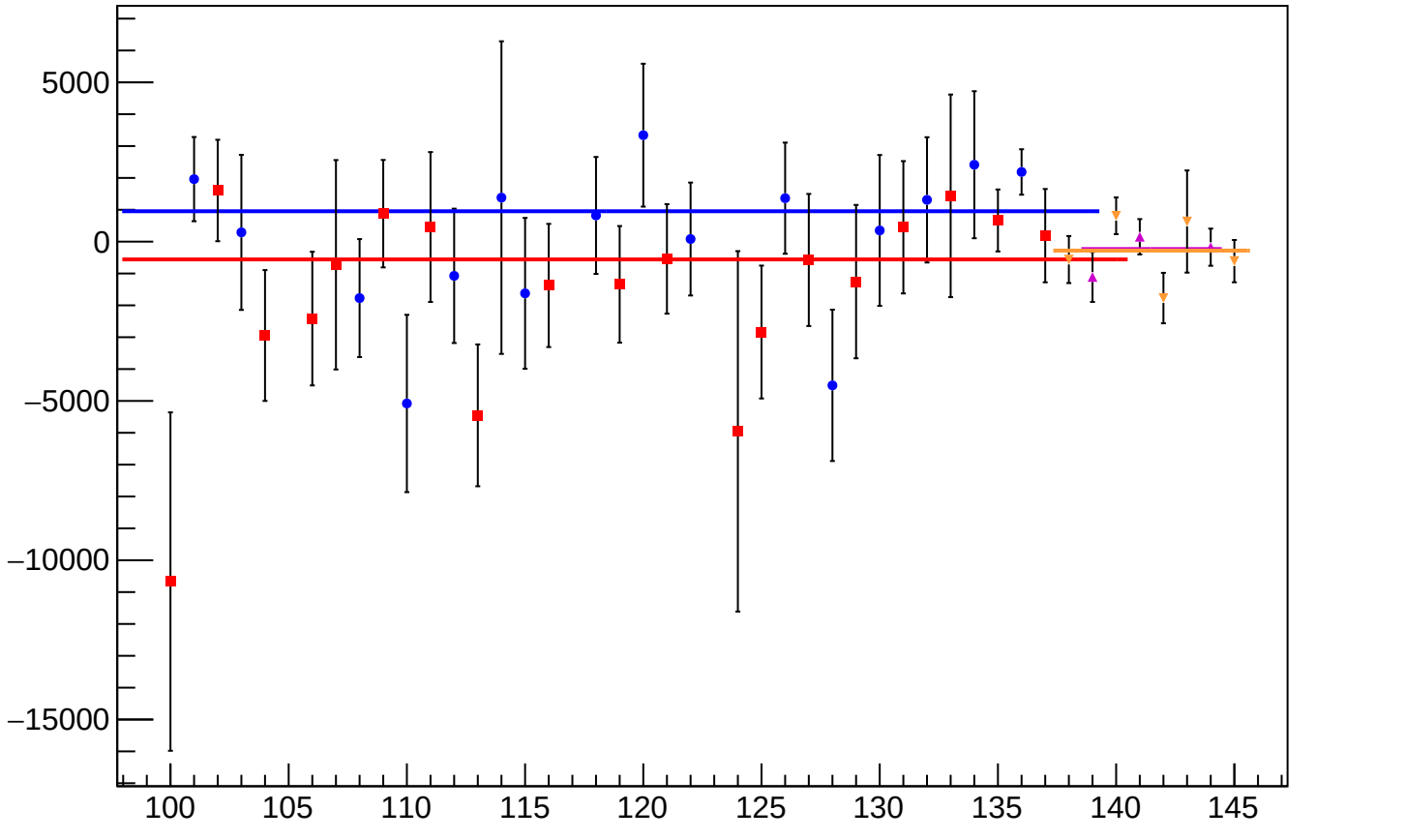
Left: 1346.239+/-0.380 $\chi^2$/NDF: 119561.5/7

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1282.472+/-0.293 $\chi^2$/NDF:524909.4/18

Out: 1312.654+/-0.283 $\chi^2$/NDF:460276.3/23

All: 1298.074+/-0.204 $\chi^2$/NDF: 990677.1/42




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: -281.296+/-331.508 $\chi^2$/NDF:7.9/4

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -232.142+/-357.478 $\chi^2$/NDF:1.7/2

Left: -258.569+/-243.075 $\chi^2$/NDF: 9.6/7

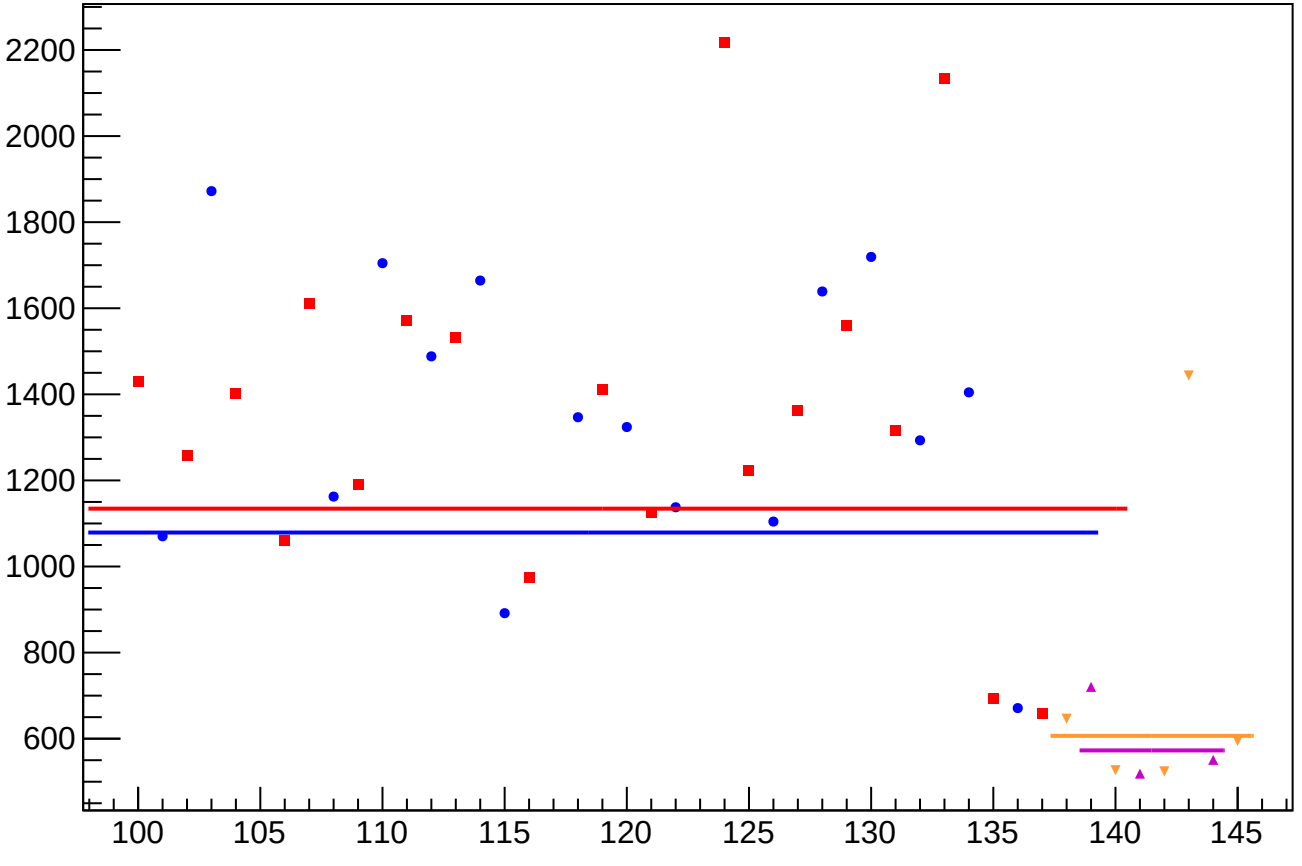
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: 258.498+/-273.747 $\chi^2$/NDF:26.2/18

Out: -381.248+/-264.935 $\chi^2$/NDF:26.5/23

All: -71.838+/-190.376 $\chi^2$/NDF: 55.5/42

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: 606.559+/-0.234 $\chi^2$/NDF:611841.7/4

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 572.766+/-0.253 $\chi^2$/NDF:92684.3/2

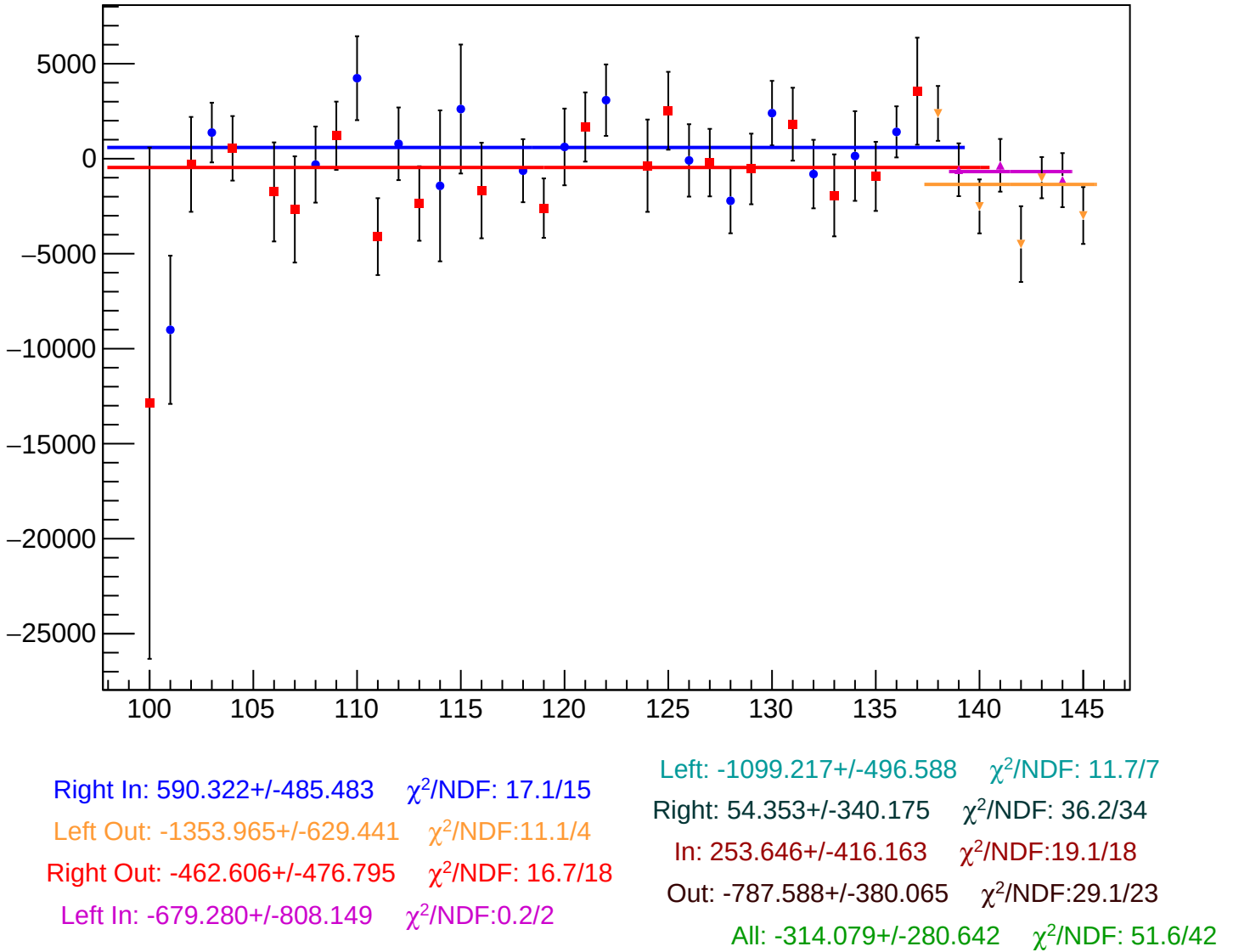
Left: 590.934+/-0.172 $\chi^2$/NDF: 714134.7/7

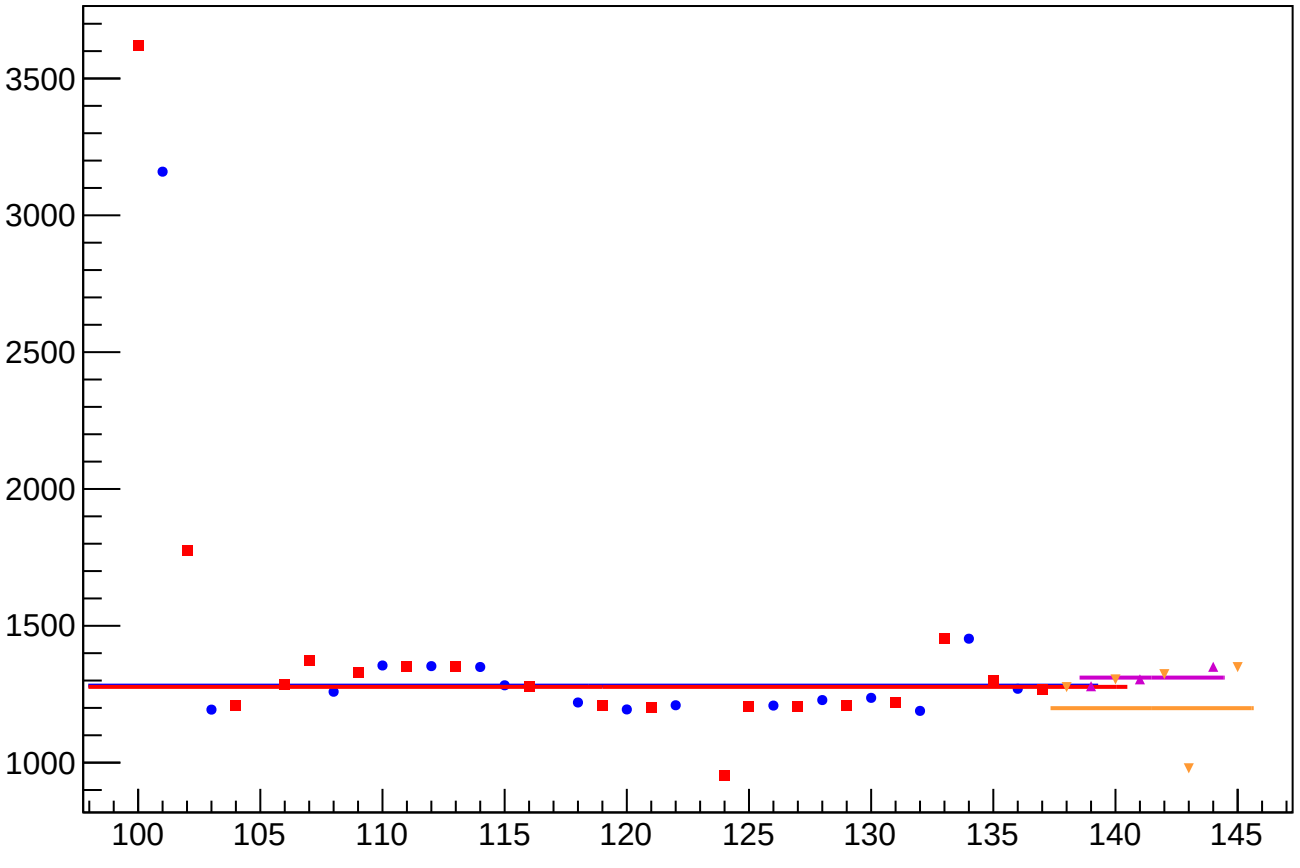
Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 782.112+/-0.194 $\chi^2$/NDF:3229802.5/18

Out: 797.282+/-0.187 $\chi^2$/NDF:3732945.1/23

All: 789.945+/-0.135 $\chi^2$/NDF: 6965918.9/42


dit_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 590.322+/-485.483 χ²/NDF: 17.1/15
Left Out: -1353.965+/-629.441 χ²/NDF:11.1/4
Right Out: -462.606+/-476.795 χ²/NDF: 16.7/18
Left In: -679.280+/-808.149 χ²/NDF:0.2/2
Left: -1099.217+/-496.588 χ²/NDF: 11.7/7
Right: 54.353+/-340.175 χ²/NDF: 36.2/34
In: 253.646+/-416.163 χ²/NDF:19.1/18
Out: -787.588+/-380.065 χ²/NDF:29.1/23
All: -314.079+/-280.642 χ²/NDF: 51.6/42




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.4/15

Left Out: 1199.041+/-0.445 $\chi^2$/NDF:126662.9/4

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.6/18

Left In: 1310.746+/-0.571 $\chi^2$/NDF:2615.4/2

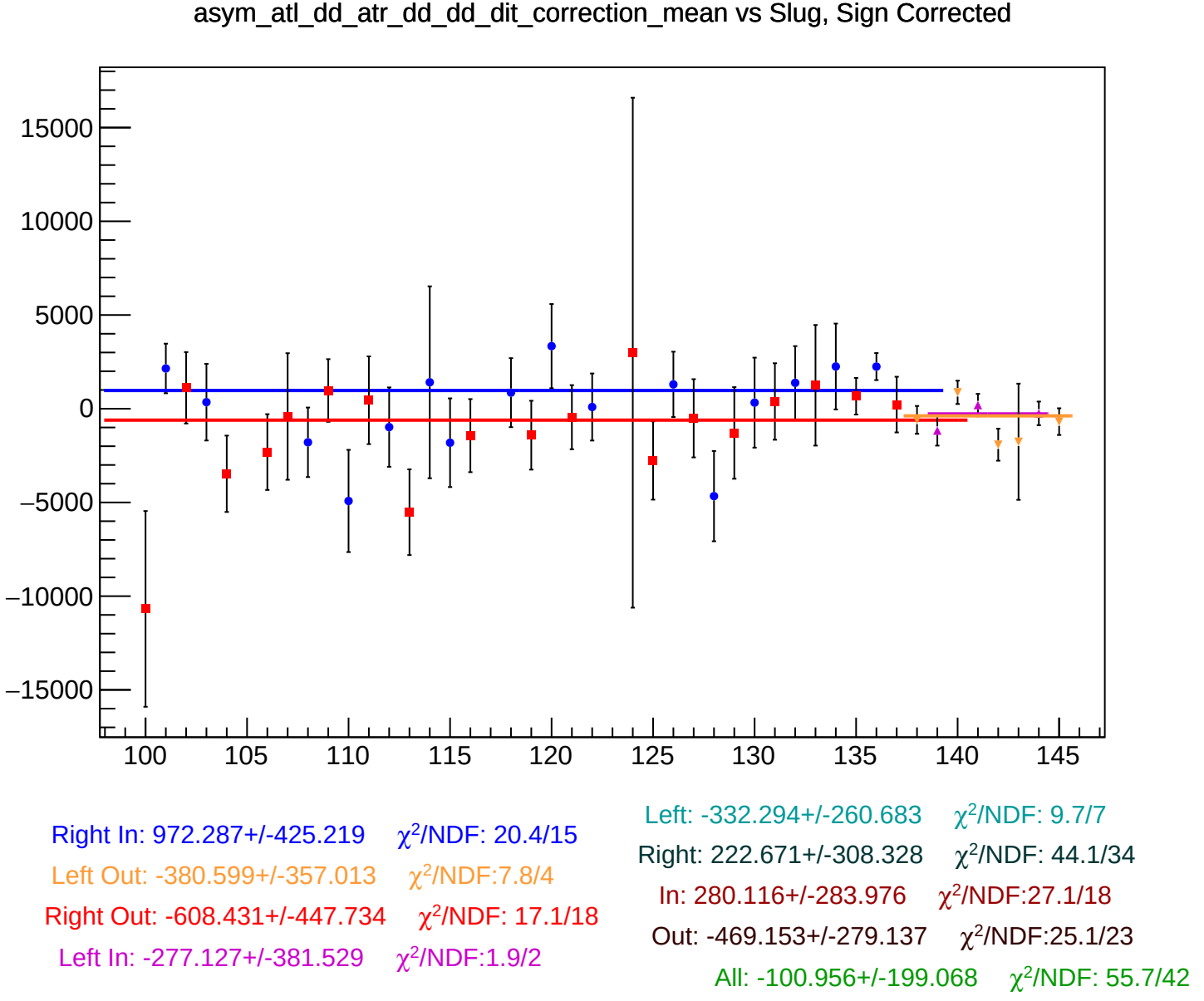
Left: 1241.218+/-0.351 $\chi^2$/NDF: 153061.6/7

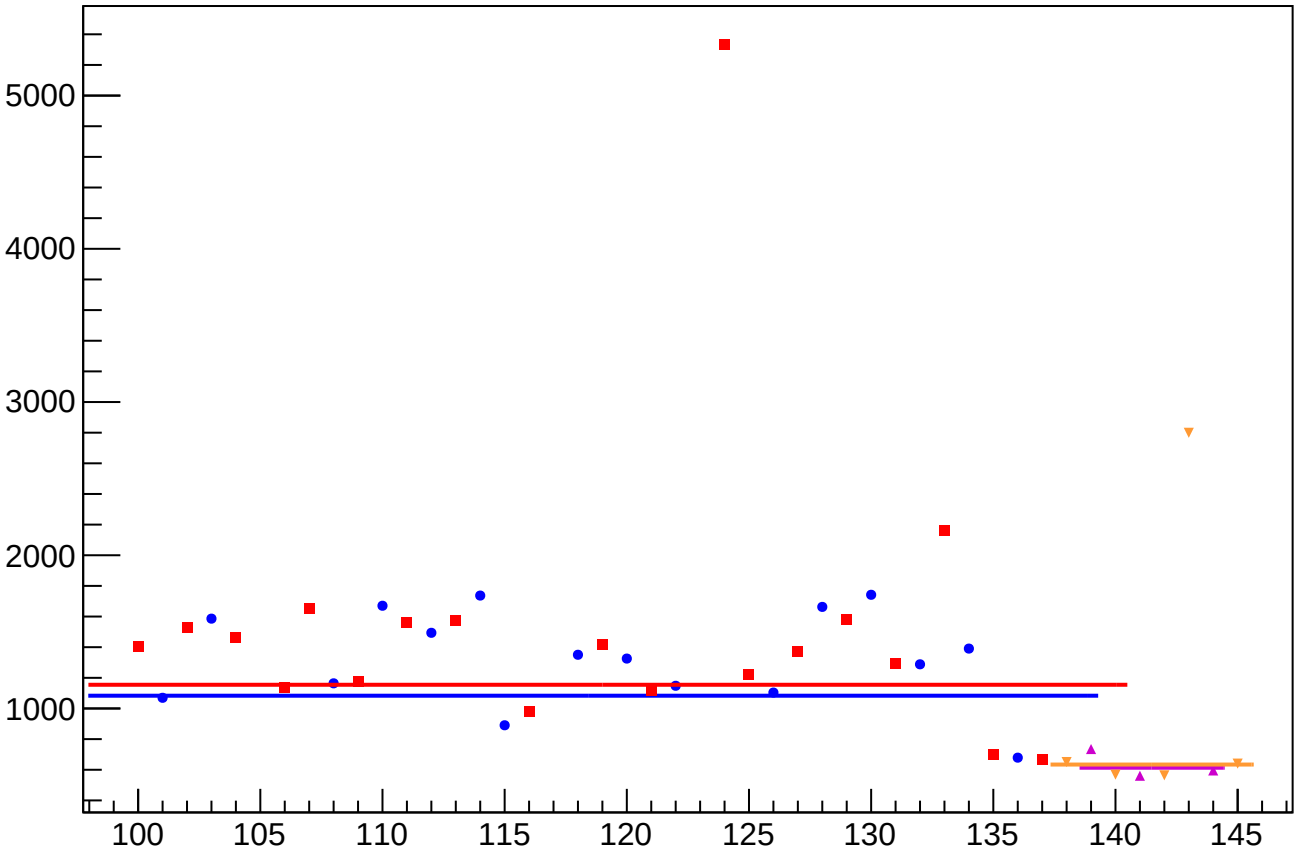
Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1289.159+/-0.294 $\chi^2$/NDF:511635.8/18

Out: 1248.488+/-0.269 $\chi^2$/NDF:366600.9/23

All: 1266.983+/-0.198 $\chi^2$/NDF: 888651.8/42


asym_atl_dd_atr_dd_dd_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
100
105
110
115
120
125
130
135
140
145
Right In: 972.287+/-425.219 χ²/NDF: 20.4/15
Left Out: -380.599+/-357.013 χ²/NDF:7.8/4
Right Out: -608.431+/-447.734 χ²/NDF: 17.1/18
Left In: -277.127+/-381.529 χ²/NDF:1.9/2
Left: -332.294+/-260.683 χ²/NDF: 9.7/7
Right: 222.671+/-308.328 χ²/NDF: 44.1/34
In: 280.116+/-283.976 χ²/NDF:27.1/18
Out: -469.153+/-279.137 χ²/NDF:25.1/23
All: -100.956+/-199.068 χ²/NDF: 55.7/42




Right In: 1083.335+/-0.301 $\chi^2$/NDF: 1360153.3/15

Left Out: 634.064+/-0.252 $\chi^2$/NDF:1013459.5/4

Right Out: 1154.724+/-0.317 $\chi^2$/NDF: 1488304.5/18

Left In: 613.289+/-0.270 $\chi^2$/NDF:63272.6/2

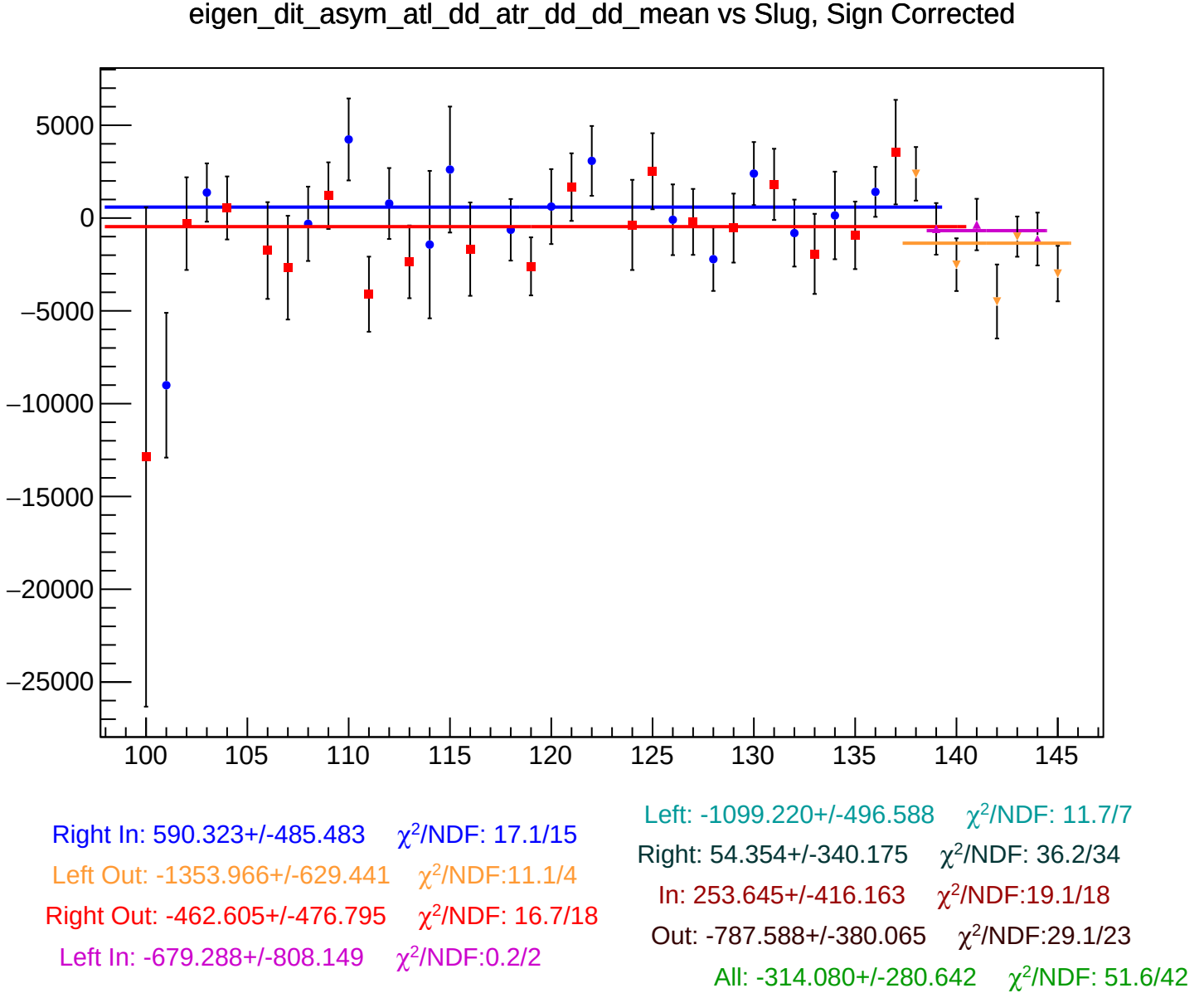
Left: 624.365+/-0.184 $\chi^2$/NDF: 1079893.7/7

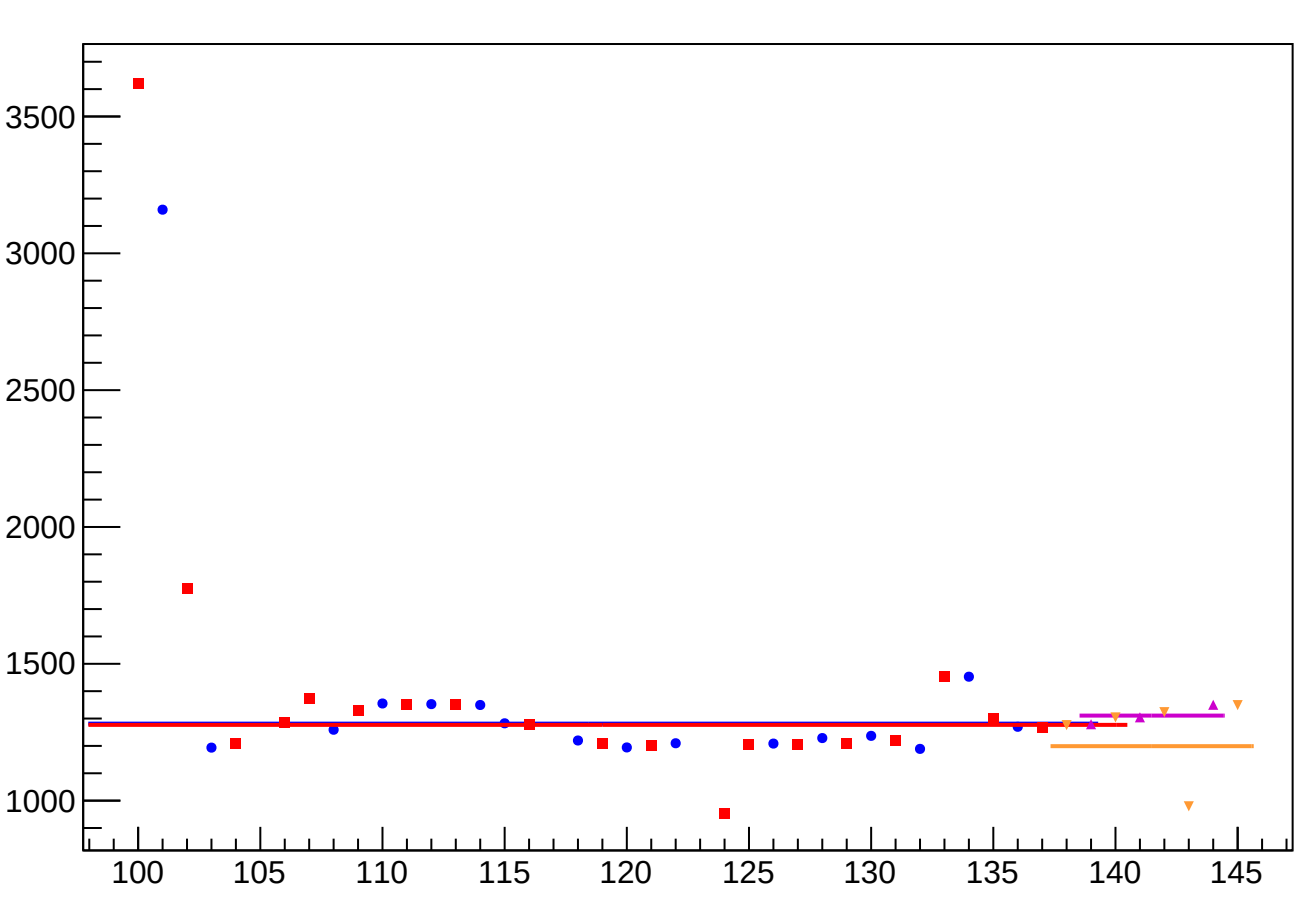
Right: 1117.189+/-0.218 $\chi^2$/NDF: 2875191.7/34

In: 822.931+/-0.201 $\chi^2$/NDF:2777343.9/18

Out: 836.436+/-0.197 $\chi^2$/NDF:4155115.9/23

All: 829.799+/-0.141 $\chi^2$/NDF: 6934760.2/42


eigen_dit_asym_atl_dd_atr_dd_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 590.323+/-485.483 χ²/NDF: 17.1/15
Left Out: -1353.966+/-629.441 χ²/NDF:11.1/4
Right Out: -462.605+/-476.795 χ²/NDF: 16.7/18
Left In: -679.288+/-808.149 χ²/NDF:0.2/2
Left: -1099.220+/-496.588 χ²/NDF: 11.7/7
Right: 54.354+/-340.175 χ²/NDF: 36.2/34
In: 253.645+/-416.163 χ²/NDF:19.1/18
Out: -787.588+/-380.065 χ²/NDF:29.1/23
All: -314.080+/-280.642 χ²/NDF: 51.6/42




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.6/15

Left Out: 1199.041+/-0.445 $\chi^2$/NDF:126662.3/4

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.5/18

Left In: 1310.746+/-0.571 $\chi^2$/NDF:2615.4/2

Left: 1241.219+/-0.351 $\chi^2$/NDF: 153060.8/7

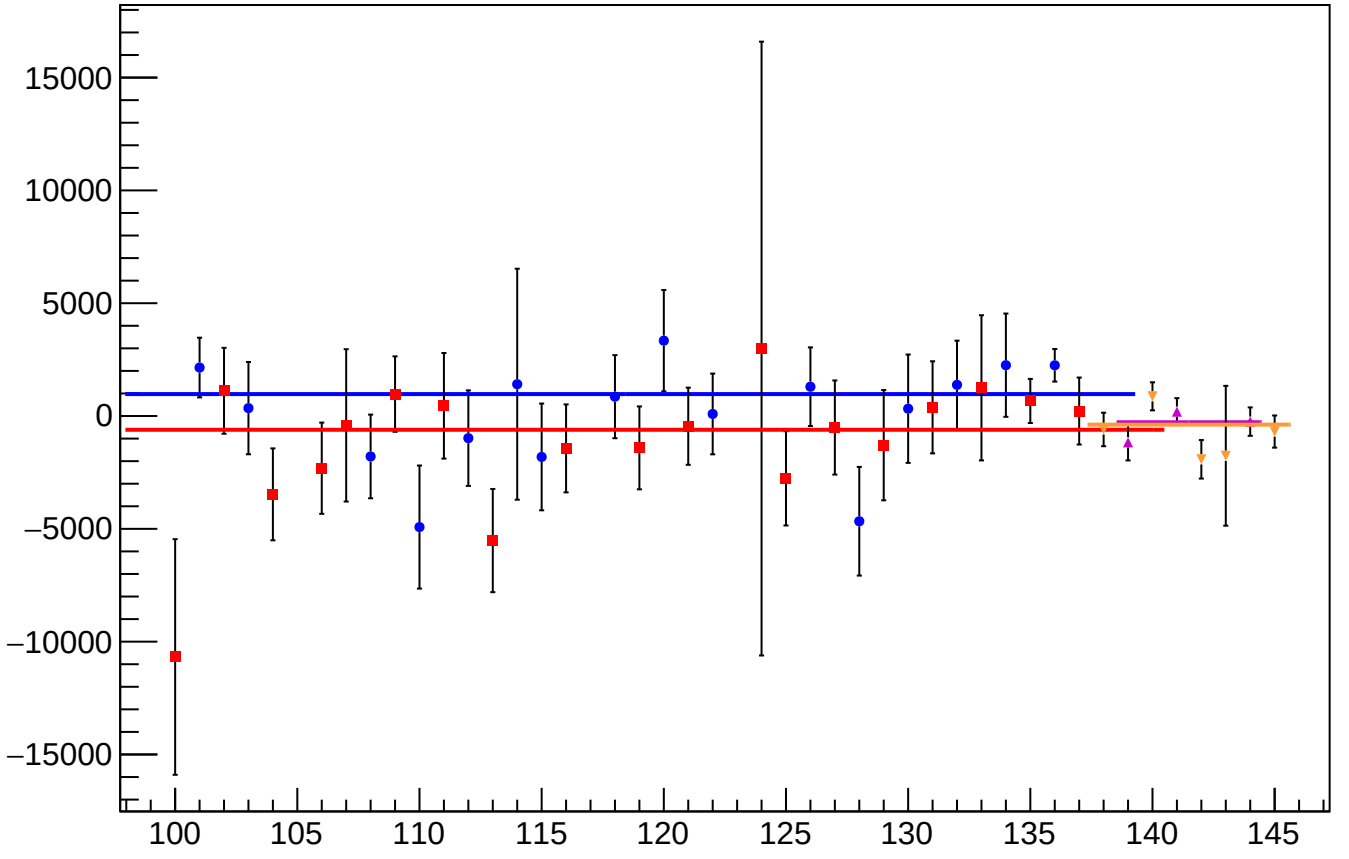
Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1289.159+/-0.294 $\chi^2$/NDF:511635.9/18

Out: 1248.488+/-0.269 $\chi^2$/NDF:366599.9/23

All: 1266.983+/-0.198 $\chi^2$/NDF: 888650.9/42

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 972.281+/-425.220 $\chi^2$/NDF: 20.4/15

Left Out: -380.603+/-357.015 $\chi^2$/NDF:7.8/4

Right Out: -608.441+/-447.736 $\chi^2$/NDF: 17.1/18

Left In: -277.126+/-381.531 $\chi^2$/NDF:1.9/2

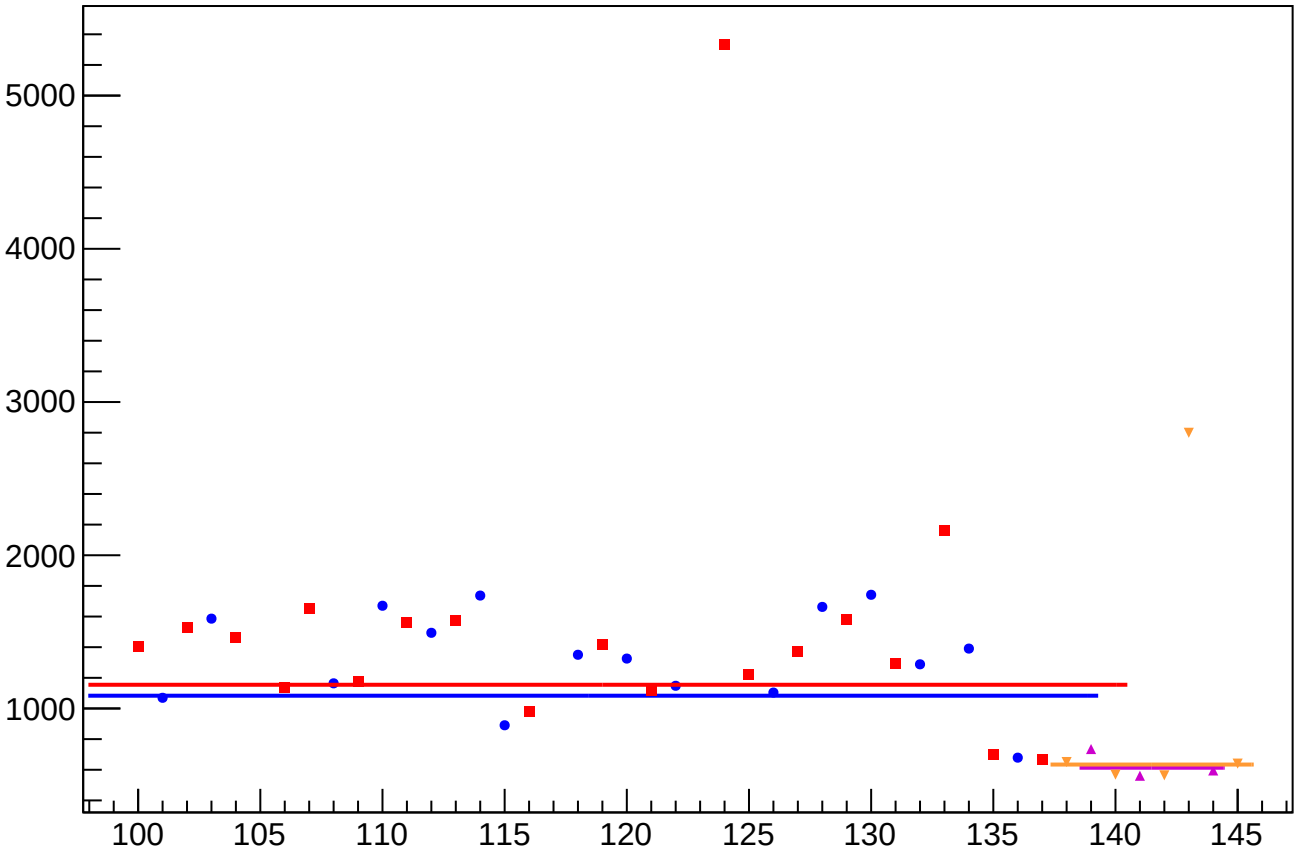
Left: -332.296+/-260.684 $\chi^2$/NDF: 9.7/7

Right: 222.664+/-308.329 $\chi^2$/NDF: 44.1/34

In: 280.114+/-283.977 $\chi^2$/NDF:27.1/18

Out: -469.160+/-279.139 $\chi^2$/NDF:25.1/23

All: -100.960+/-199.069 $\chi^2$/NDF: 55.7/42




Right In: 1083.341+/-0.301 $\chi^2$/NDF: 1360095.7/15

Left Out: 634.068+/-0.252 $\chi^2$/NDF:1013458.0/4

Right Out: 1154.732+/-0.317 $\chi^2$/NDF: 1488251.4/18

Left In: 613.291+/-0.270 $\chi^2$/NDF:63279.1/2

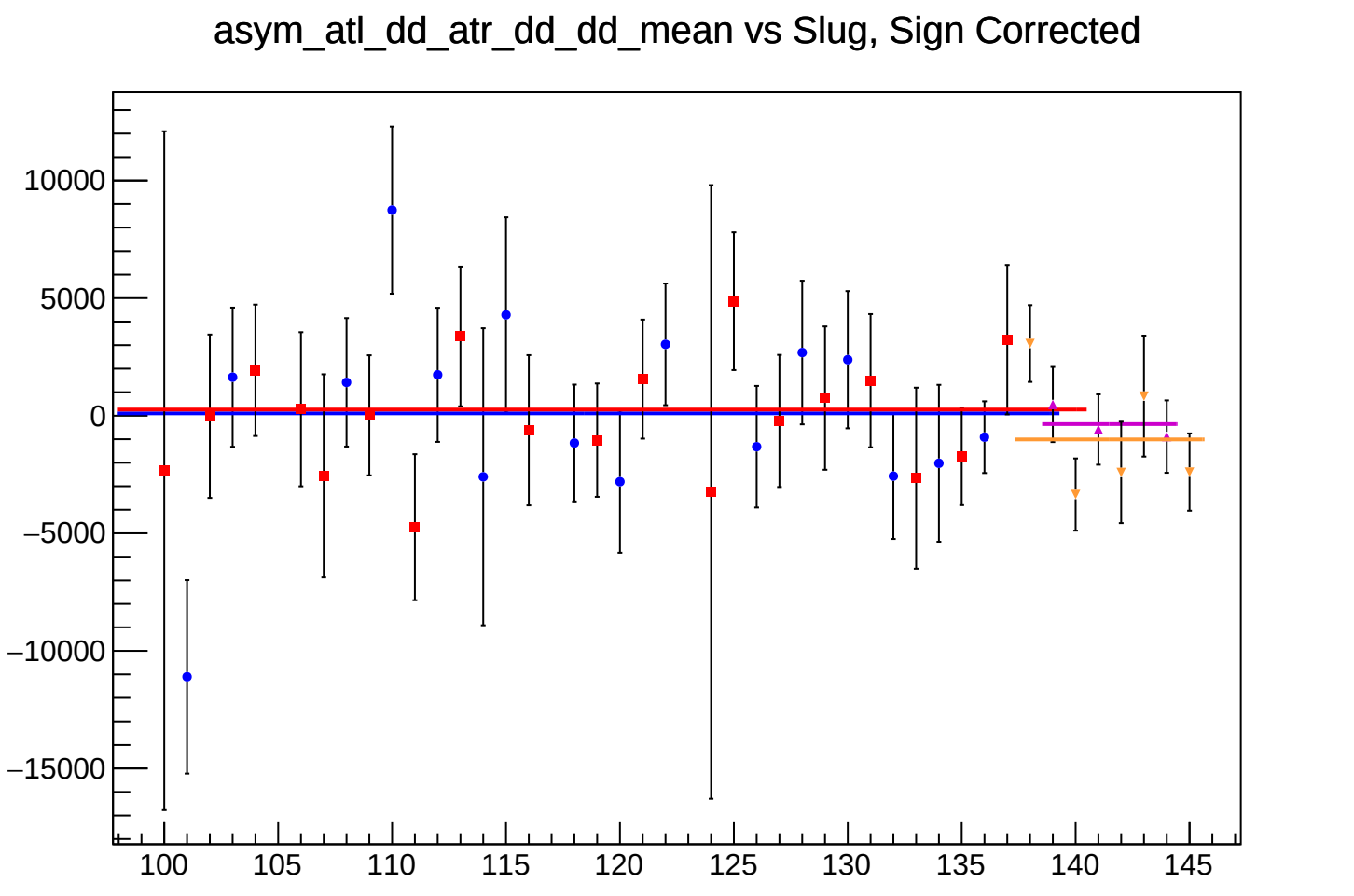
Left: 624.368+/-0.184 $\chi^2$/NDF: 1079899.2/7

Right: 1117.196+/-0.218 $\chi^2$/NDF: 2875081.4/34

In: 822.935+/-0.201 $\chi^2$/NDF:2777308.1/18

Out: 836.441+/-0.197 $\chi^2$/NDF:4155069.3/23

All: 829.804+/-0.141 $\chi^2$/NDF: 6934678.3/42




Right In: 100.451+/-698.983 $\chi^2$/NDF: 21.3/15

Left Out: -1008.541+/-806.880 $\chi^2$/NDF:10.2/4

Right Out: 262.731+/-699.724 $\chi^2$/NDF: 10.3/18

Left In: -356.727+/-890.495 $\chi^2$/NDF:0.4/2

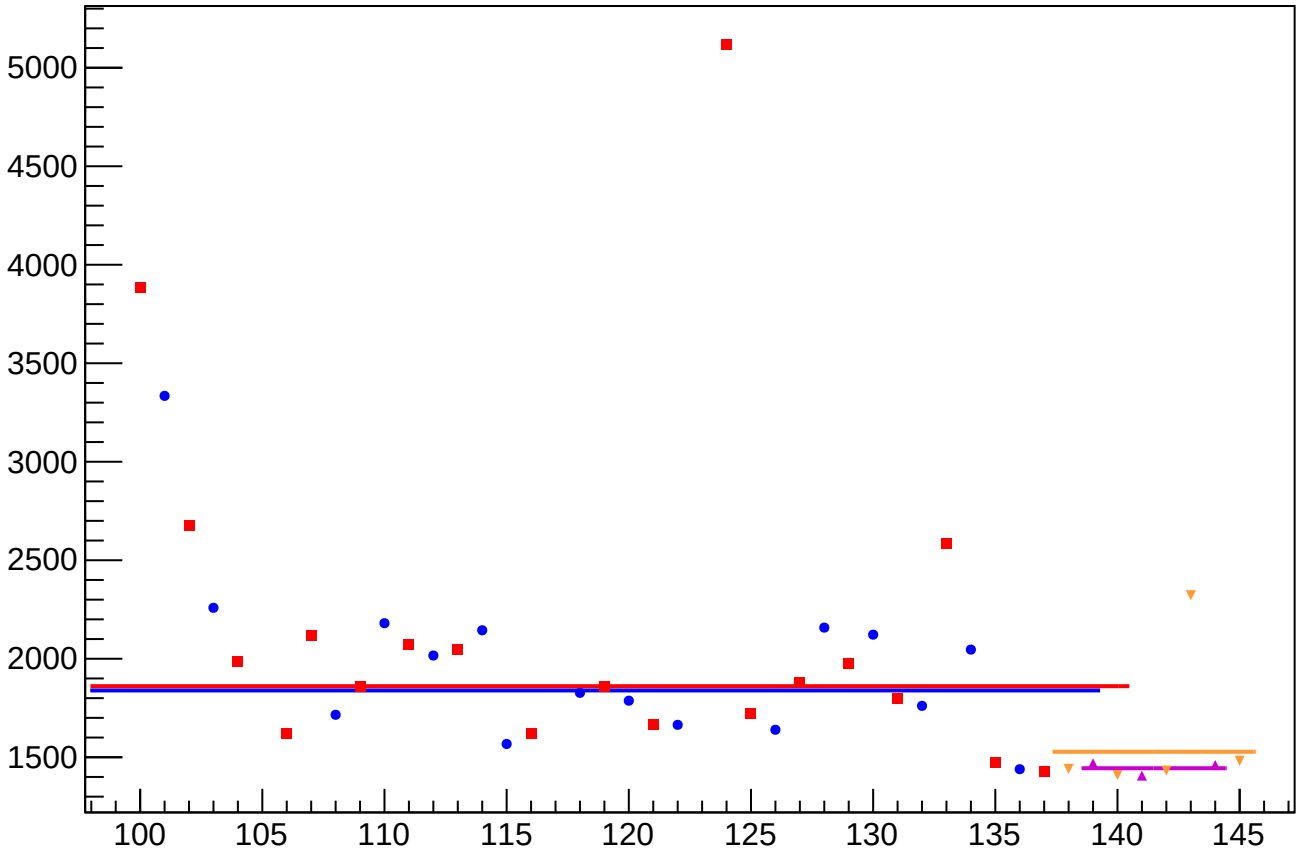
Left: -714.666+/-597.931 $\chi^2$/NDF: 10.9/7

Right: 181.505+/-494.518 $\chi^2$/NDF: 31.6/34

In: -73.842+/-549.831 $\chi^2$/NDF:21.9/18

Out: -282.942+/-528.635 $\chi^2$/NDF:22.0/23

All: -182.500+/-381.074 $\chi^2$/NDF: 43.9/42




Right In: 1839.113+/-0.494 $\chi^2$/NDF: 556725.4/15

Left Out: 1527.769+/-0.571 $\chi^2$/NDF:213831.0/4

Right Out: 1860.754+/-0.495 $\chi^2$/NDF: 522114.2/18

Left In: 1444.268+/-0.630 $\chi^2$/NDF:1963.8/2

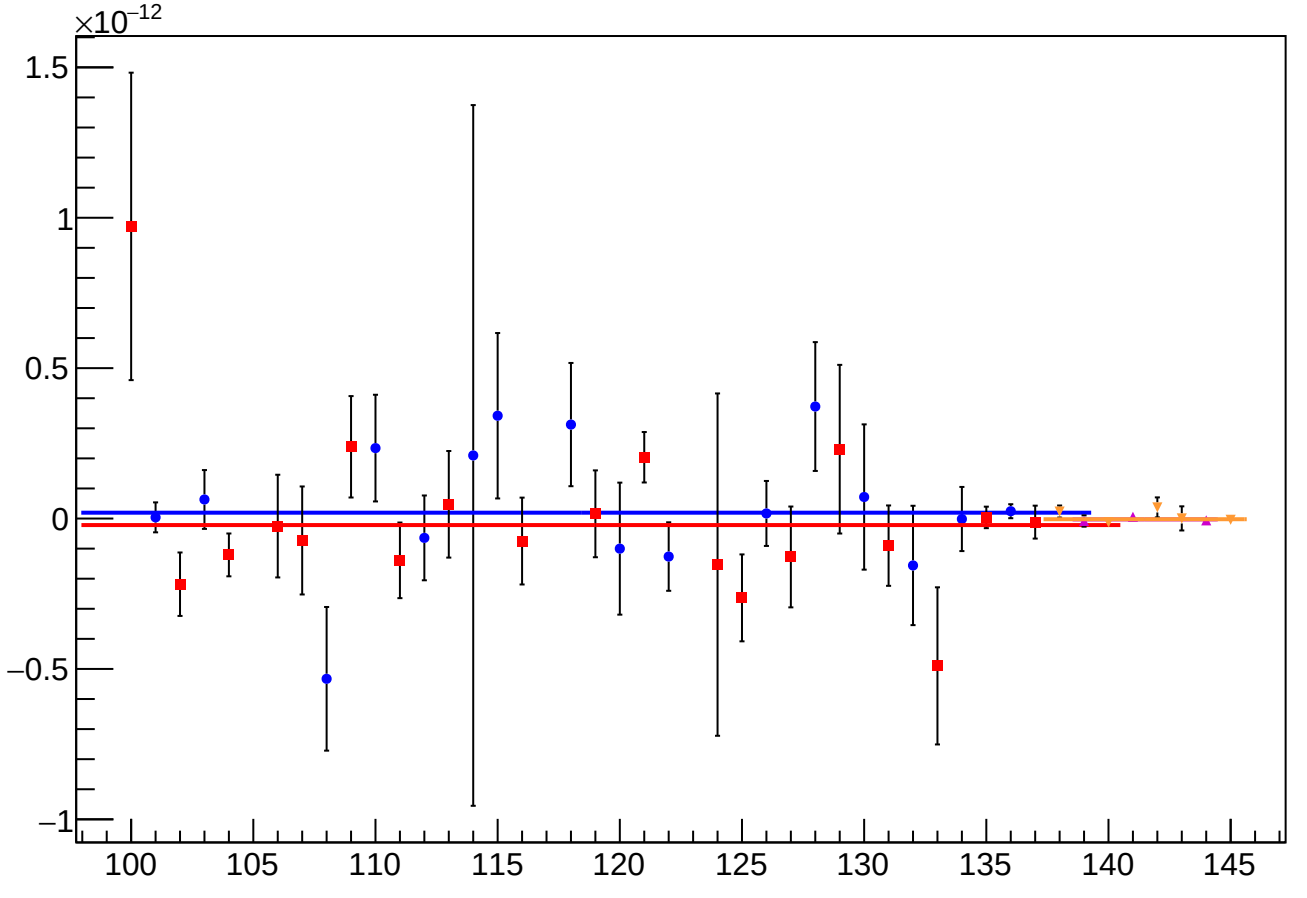
Left: 1490.122+/-0.423 $\chi^2$/NDF: 225451.4/7

Right: 1849.922+/-0.350 $\chi^2$/NDF: 1079797.1/34

In: 1688.584+/-0.389 $\chi^2$/NDF:801990.6/18

Out: 1717.827+/-0.374 $\chi^2$/NDF:930357.4/23

All: 1703.780+/-0.269 $\chi^2$/NDF: 1735287.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.4/2

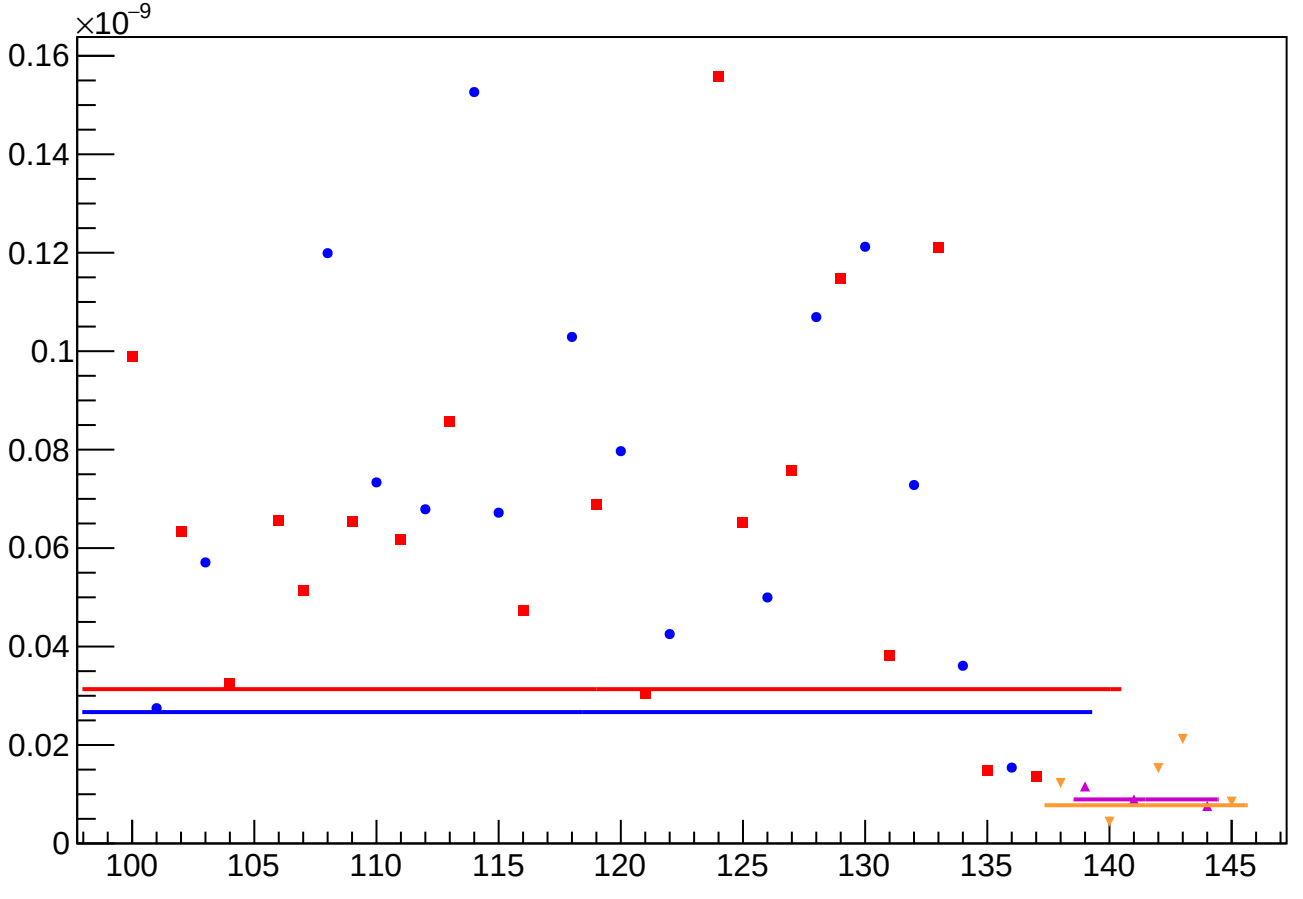
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 46.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:32.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 51.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2580672.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:629833.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2275167.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:59789.1/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 709510.4/7

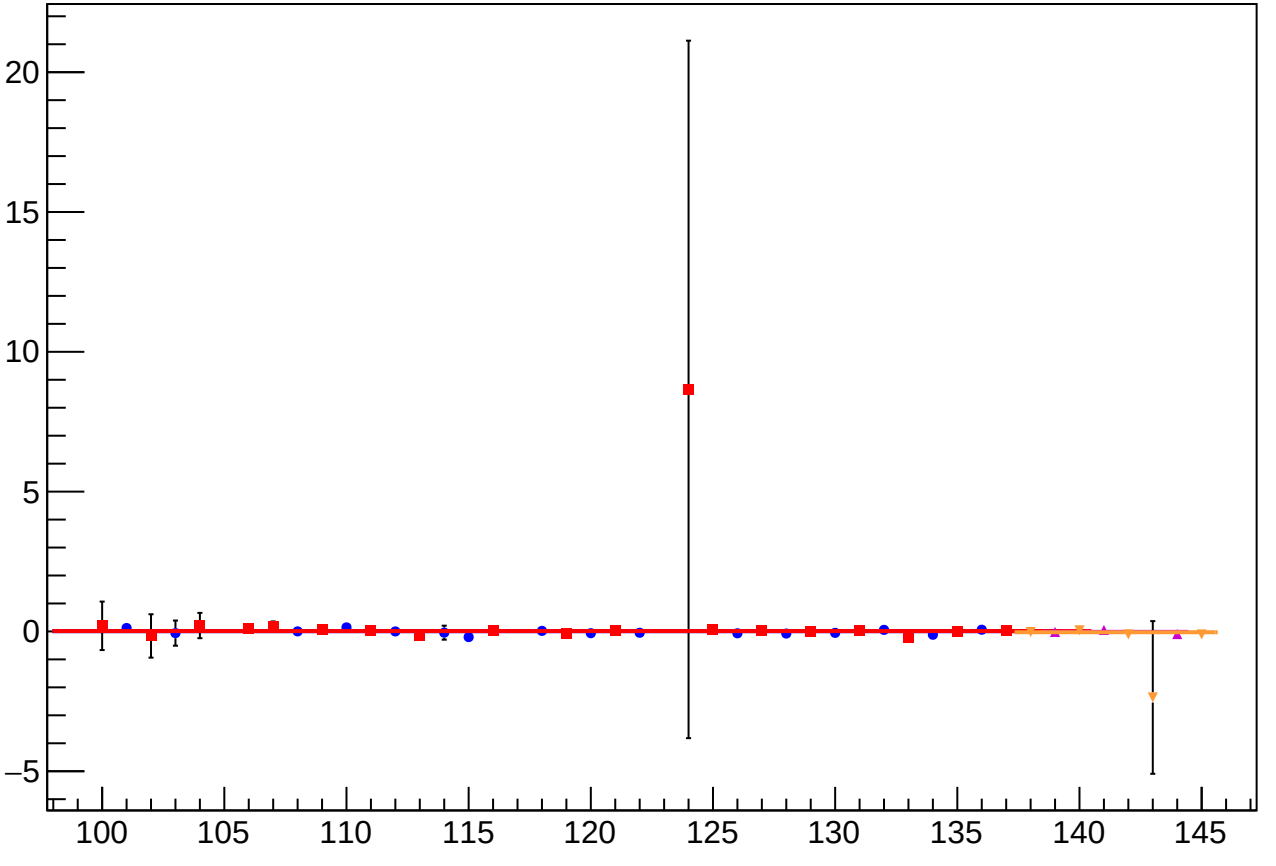
Right: 0.000+/-0.000 $\chi^2$/NDF: 4906978.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4086049.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4907065.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9062229.9/42

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: -0.029+/-0.023 $\chi^2$/NDF:4.9/4

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.015+/-0.023 $\chi^2$/NDF:3.3/2

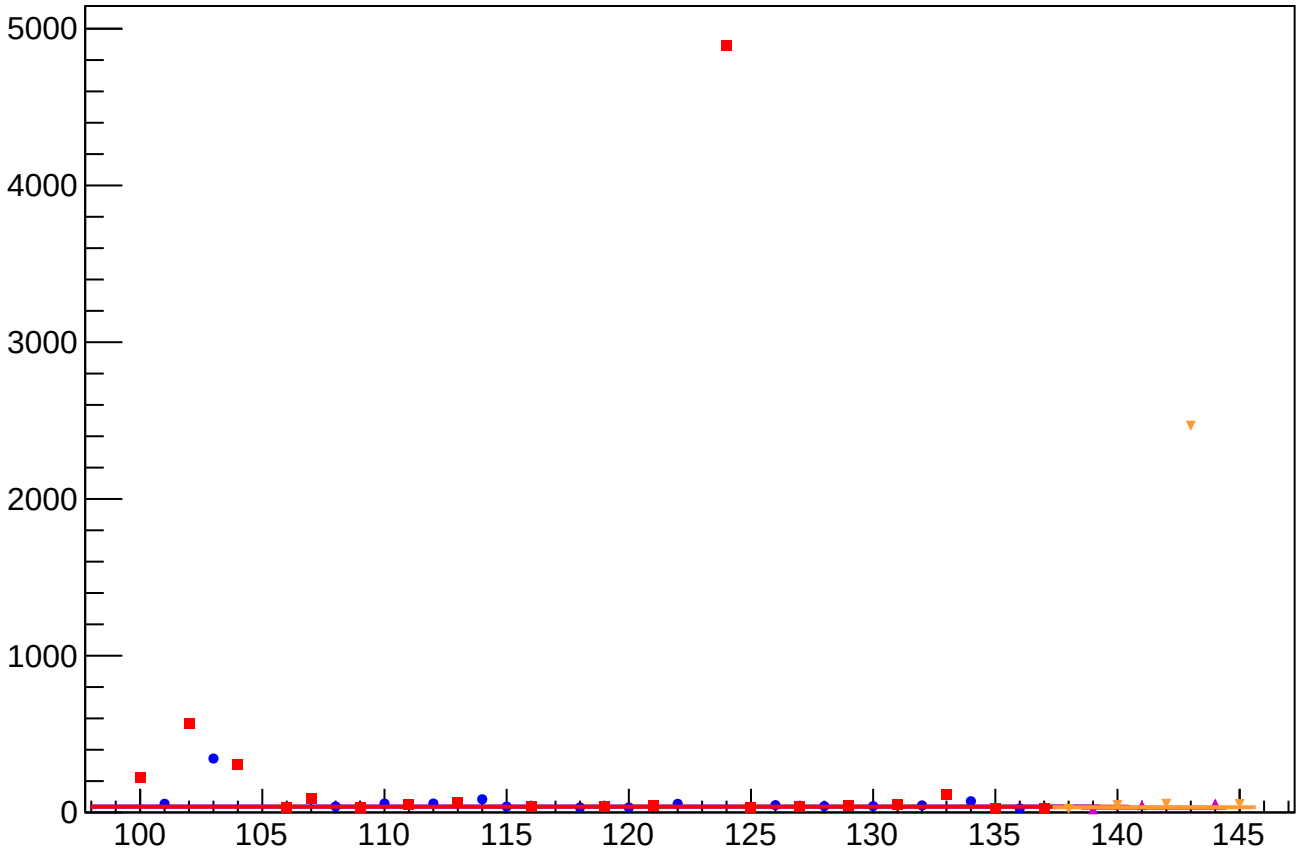
Left: -0.022+/-0.016 $\chi^2$/NDF: 8.3/7

Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: 0.000+/-0.013 $\chi^2$/NDF:23.2/18

Out: -0.002+/-0.013 $\chi^2$/NDF:19.7/23

All: -0.001+/-0.009 $\chi^2$/NDF: 42.9/42




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 33.091+/-0.016 $\chi^2$/NDF:2371298.2/4

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 30.222+/-0.016 $\chi^2$/NDF:858946.8/2

Left: 31.661+/-0.011 $\chi^2$/NDF: 3246447.3/7

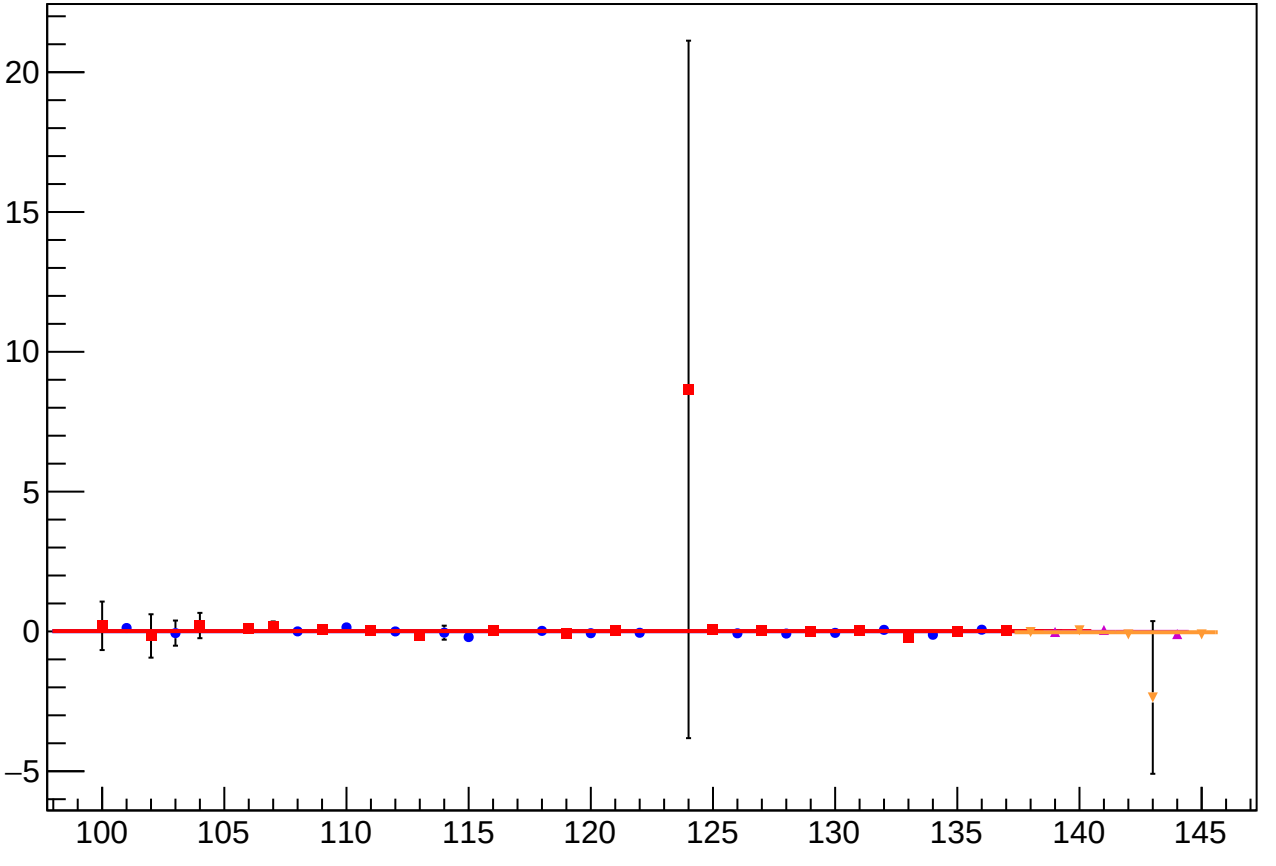
Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 35.048+/-0.009 $\chi^2$/NDF:2979889.0/18

Out: 35.470+/-0.009 $\chi^2$/NDF:5596525.3/23

All: 35.255+/-0.007 $\chi^2$/NDF: 8577433.9/42

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: -0.029+/-0.023 $\chi^2$/NDF:4.9/4

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.015+/-0.023 $\chi^2$/NDF:3.3/2

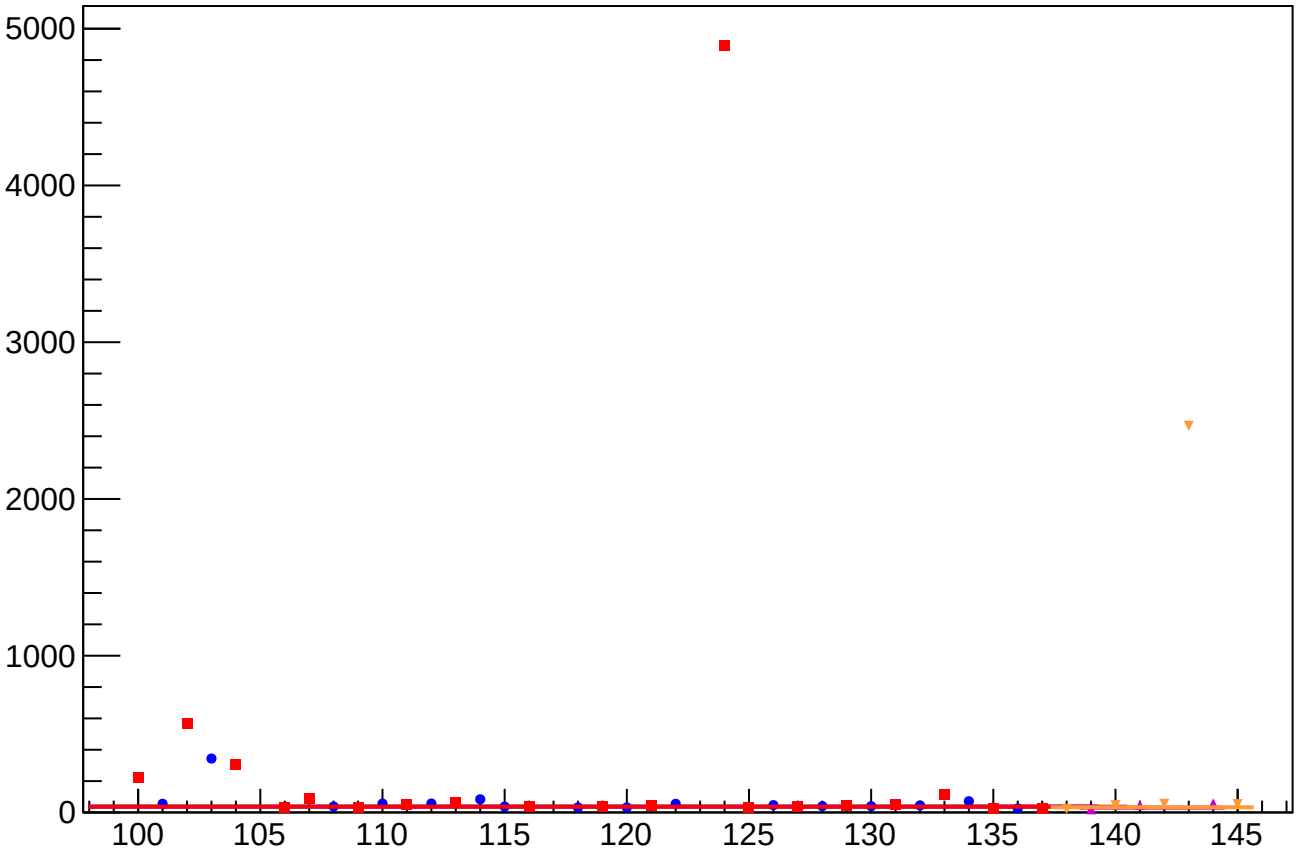
Left: -0.022+/-0.016 $\chi^2$/NDF: 8.3/7

Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: 0.000+/-0.013 $\chi^2$/NDF:23.2/18

Out: -0.002+/-0.013 $\chi^2$/NDF:19.7/23

All: -0.001+/-0.009 $\chi^2$/NDF: 42.9/42




Right In: 37.494+/-0.011 $\chi^2$/NDF: 1983275.6/15

Left Out: 33.091+/-0.016 $\chi^2$/NDF:2371298.2/4

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 30.222+/-0.016 $\chi^2$/NDF:858946.8/2

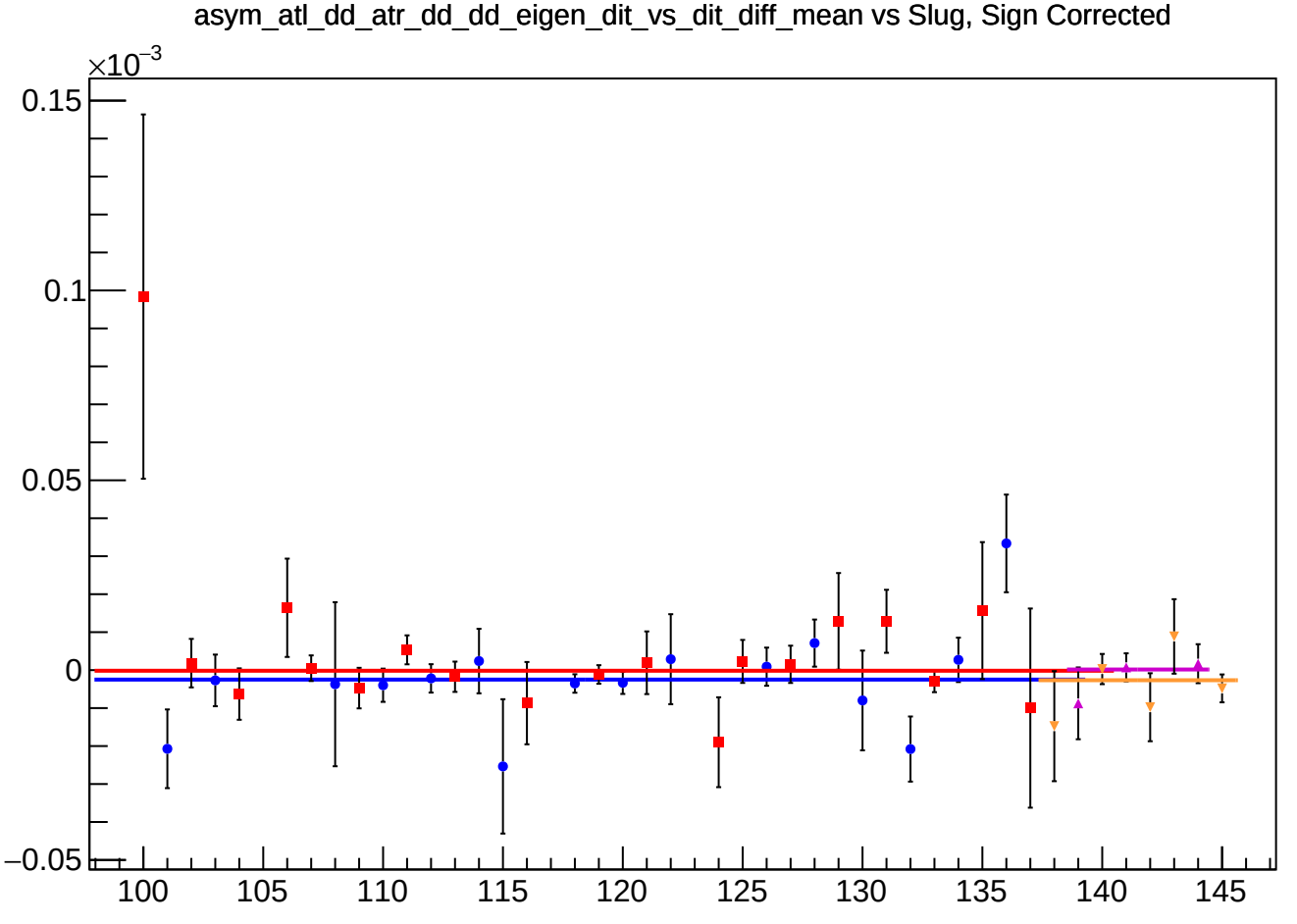
Left: 31.661+/-0.011 $\chi^2$/NDF: 3246447.3/7

Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 35.048+/-0.009 $\chi^2$/NDF:2979889.0/18

Out: 35.470+/-0.009 $\chi^2$/NDF:5596525.3/23

All: 35.255+/-0.007 $\chi^2$/NDF: 8577433.9/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.0/2

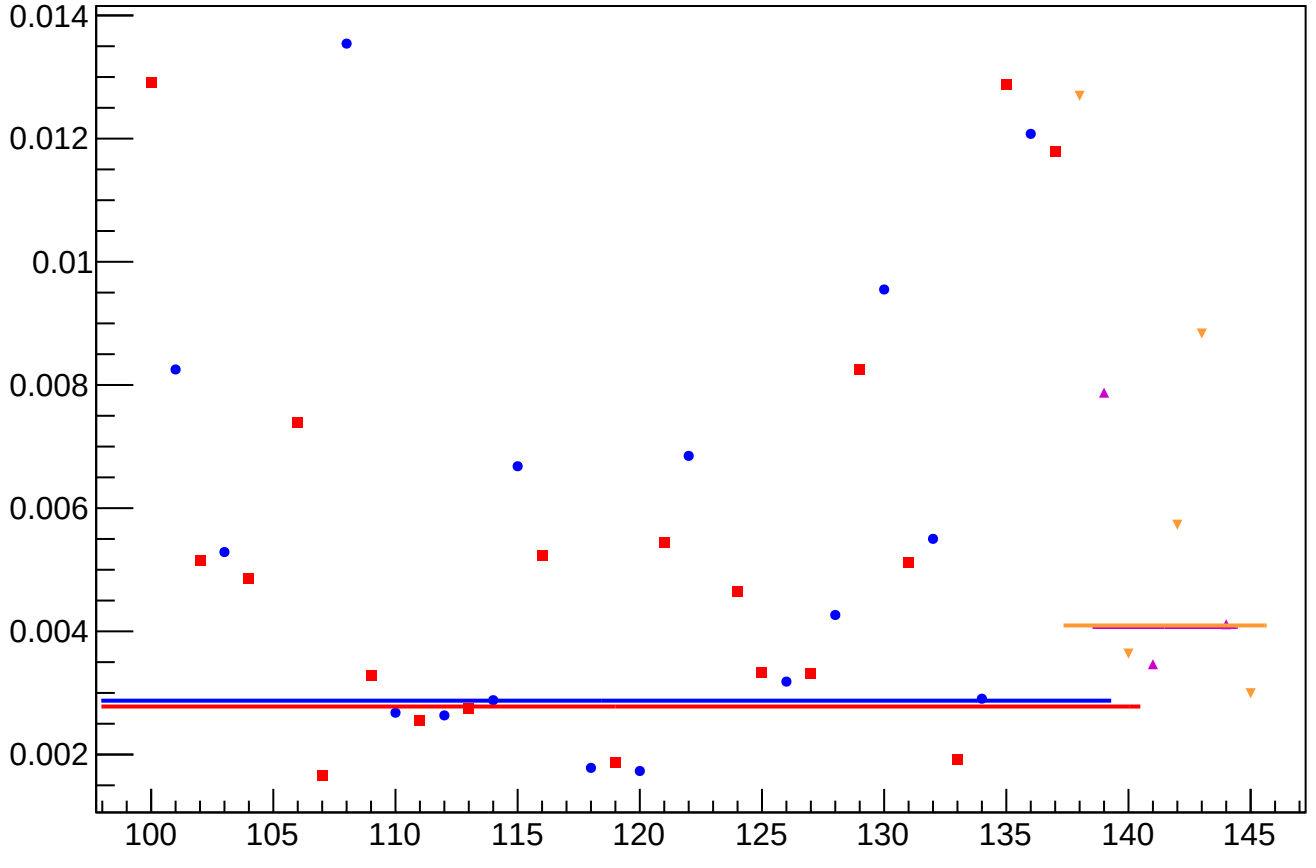
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.6/42




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4152056.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1444443.2/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3311178.7/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:377473.0/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 1822003.9/7

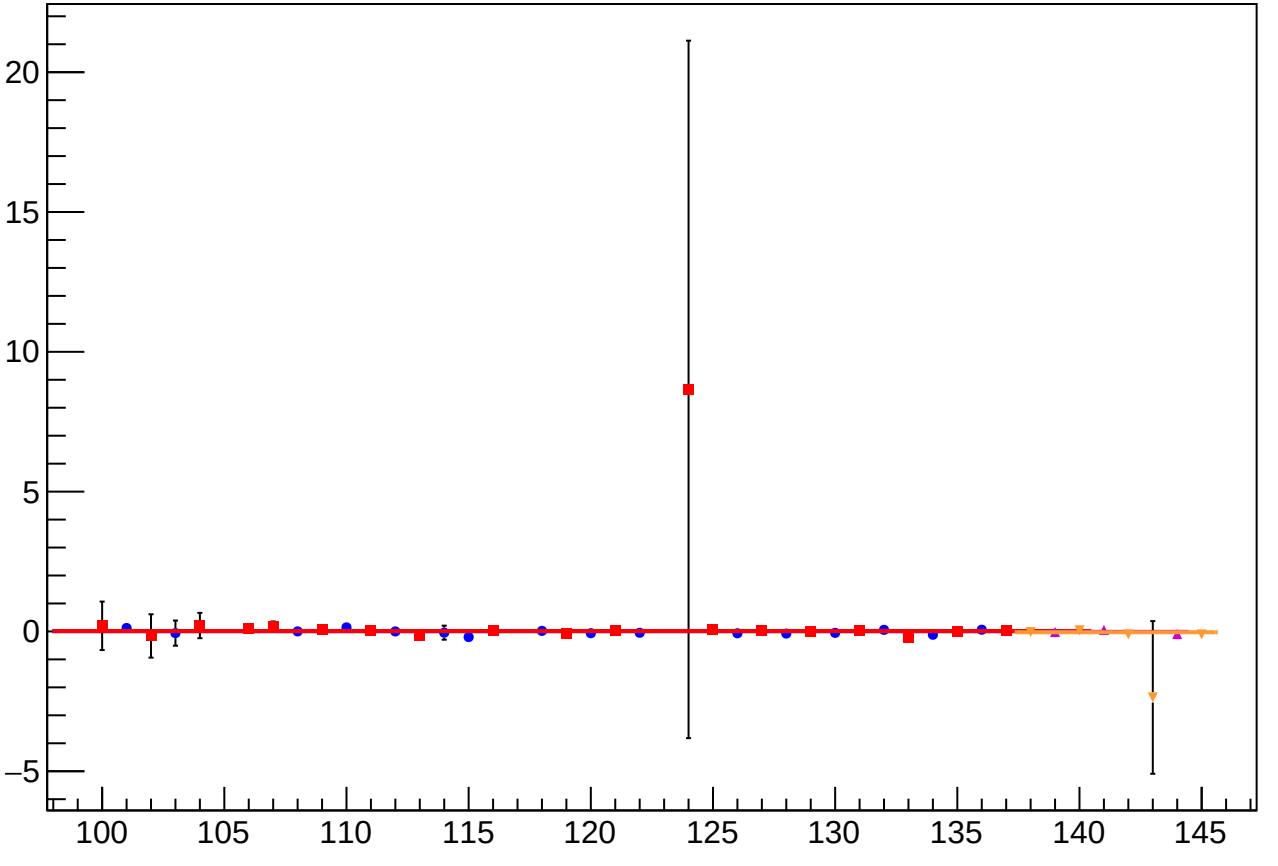
Right: 0.003+/-0.000 $\chi^2$/NDF: 7469105.0/34

In: 0.003+/-0.000 $\chi^2$/NDF:4819072.5/18

Out: 0.003+/-0.000 $\chi^2$/NDF:5221523.1/23

All: 0.003+/-0.000 $\chi^2$/NDF: 10043209.1/42

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: -0.029+/-0.023 $\chi^2$/NDF:4.9/4

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.015+/-0.023 $\chi^2$/NDF:3.3/2

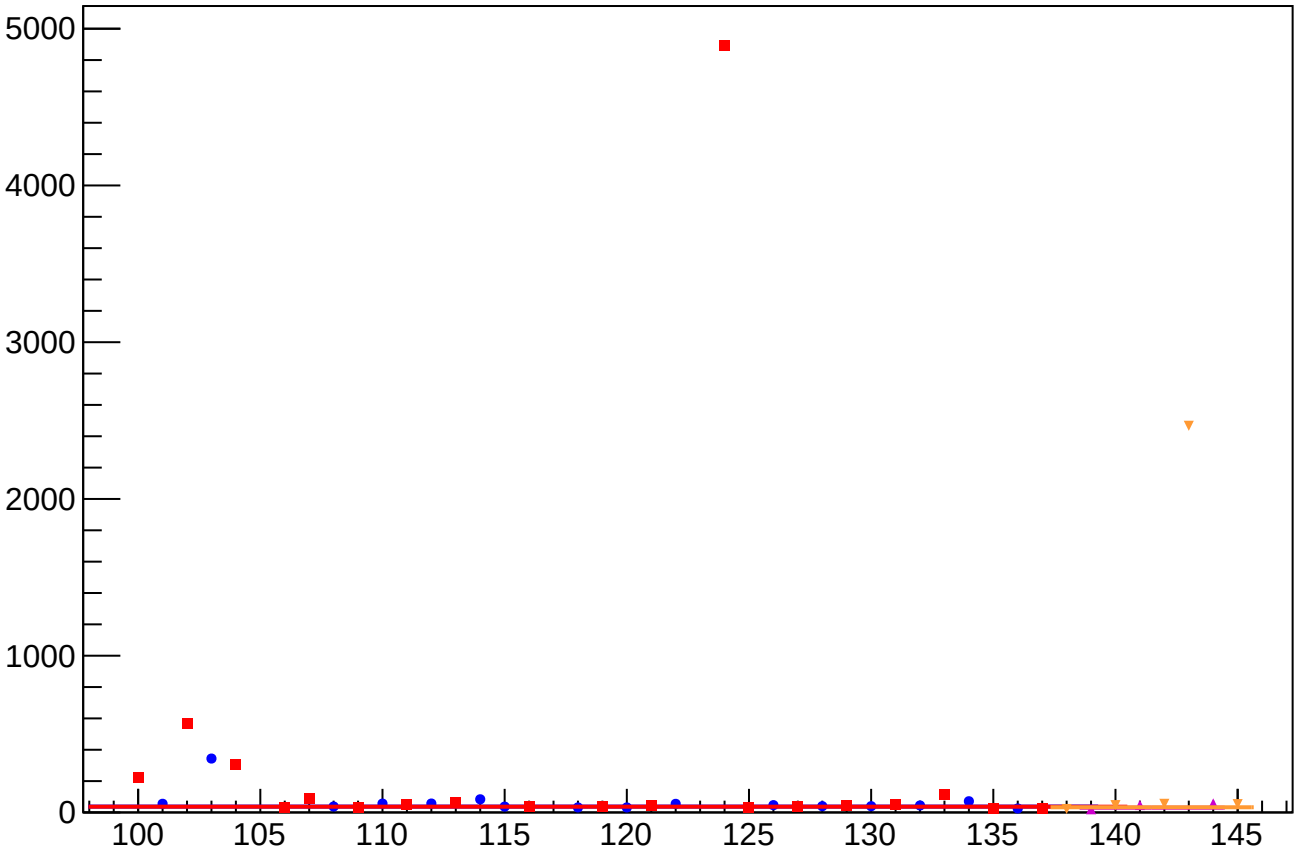
Left: -0.022+/-0.016 $\chi^2$/NDF: 8.3/7

Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: 0.000+/-0.013 $\chi^2$/NDF:23.2/18

Out: -0.002+/-0.013 $\chi^2$/NDF:19.7/23

All: -0.001+/-0.009 $\chi^2$/NDF: 42.9/42




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 33.087+/-0.016 $\chi^2$/NDF:2371628.0/4

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 30.232+/-0.016 $\chi^2$/NDF:858389.9/2

Left: 31.664+/-0.011 $\chi^2$/NDF: 3246056.9/7

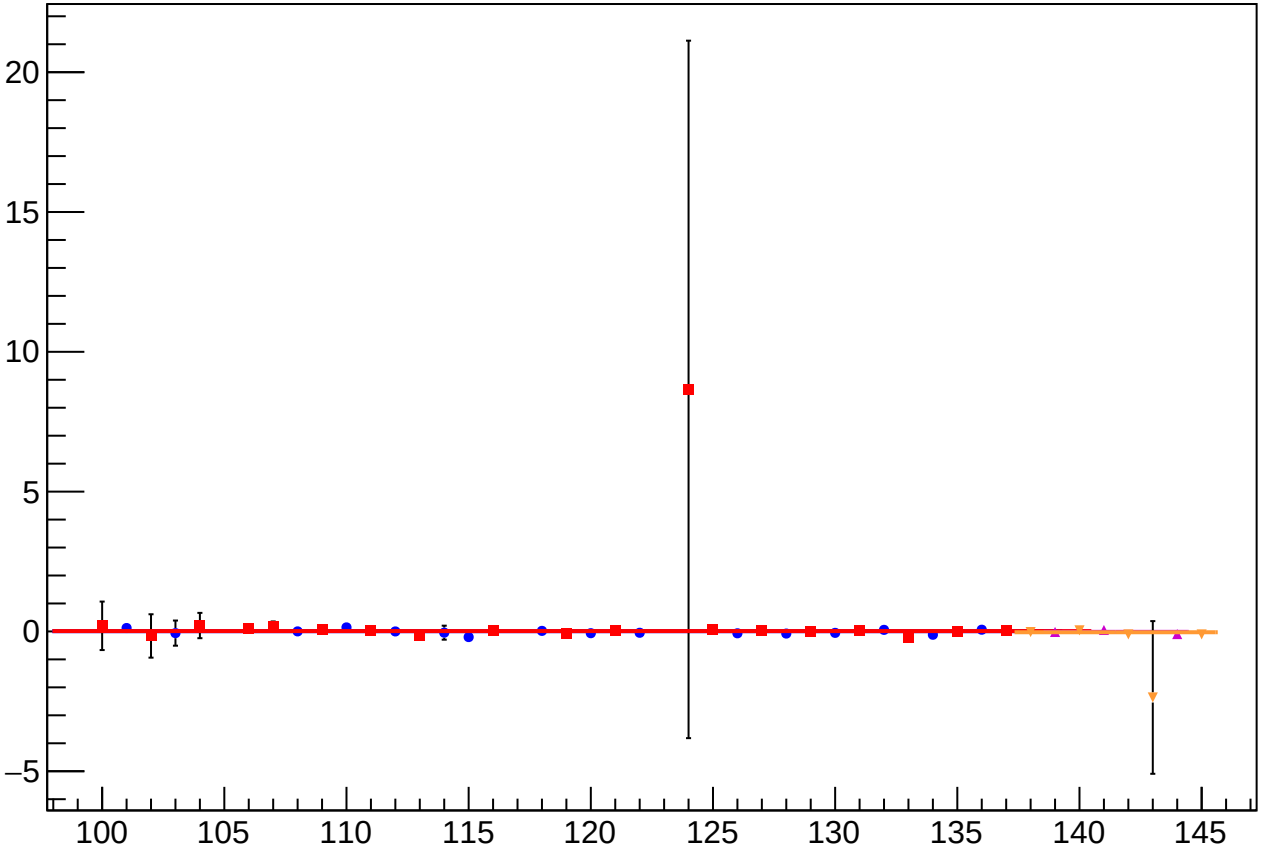
Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 35.052+/-0.009 $\chi^2$/NDF:2978862.0/18

Out: 35.470+/-0.009 $\chi^2$/NDF:5596667.6/23

All: 35.256+/-0.007 $\chi^2$/NDF: 8576525.5/42

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: -0.029+/-0.023 $\chi^2$/NDF:4.9/4

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.015+/-0.023 $\chi^2$/NDF:3.3/2

Left: -0.022+/-0.016 $\chi^2$/NDF: 8.3/7

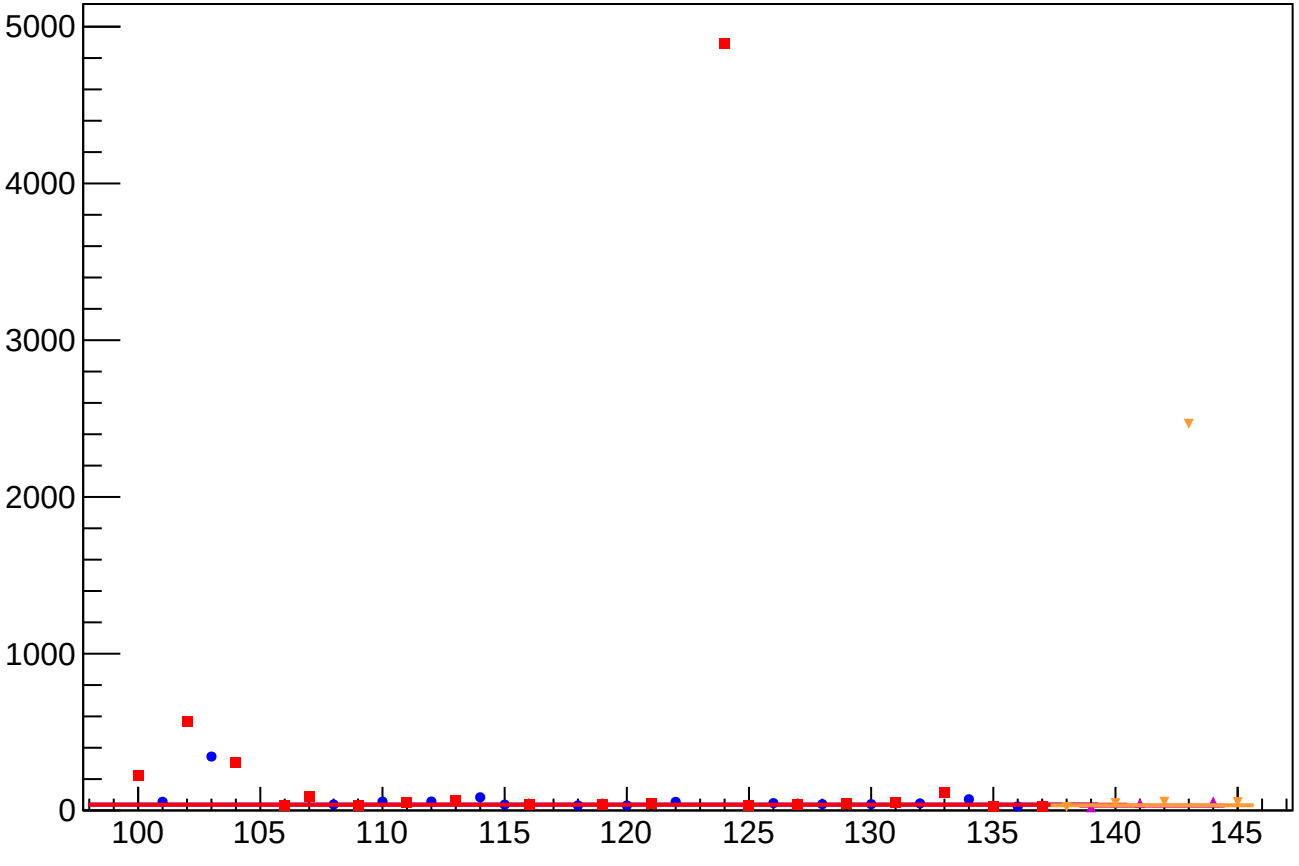
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: 0.000+/-0.013 $\chi^2$/NDF:23.2/18

Out: -0.002+/-0.013 $\chi^2$/NDF:19.7/23

All: -0.001+/-0.009 $\chi^2$/NDF: 42.9/42

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: 33.087+/-0.016 $\chi^2$/NDF:2371628.0/4

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 30.232+/-0.016 $\chi^2$/NDF:858389.9/2

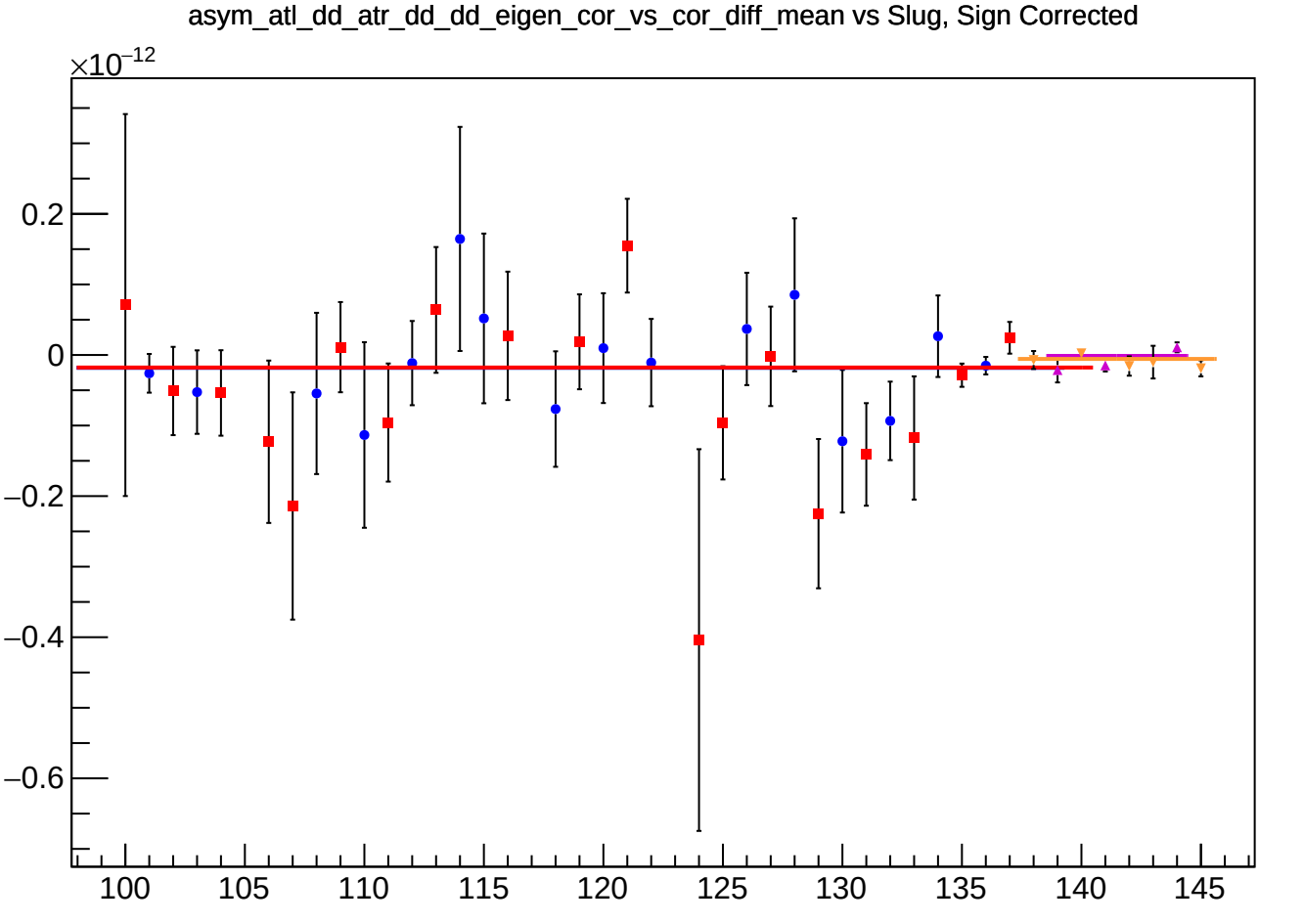
Left: 31.664+/-0.011 $\chi^2$/NDF: 3246056.9/7

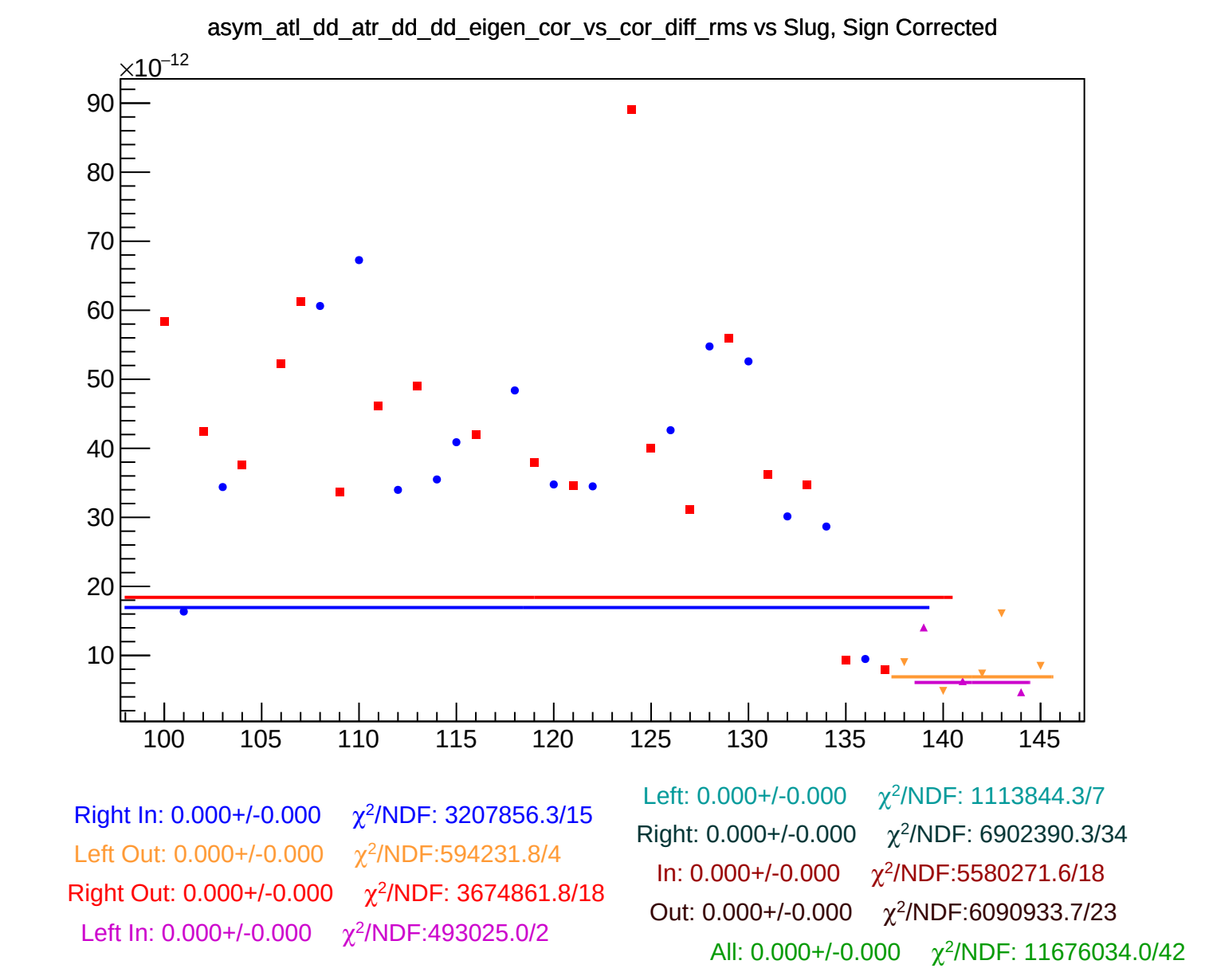
Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

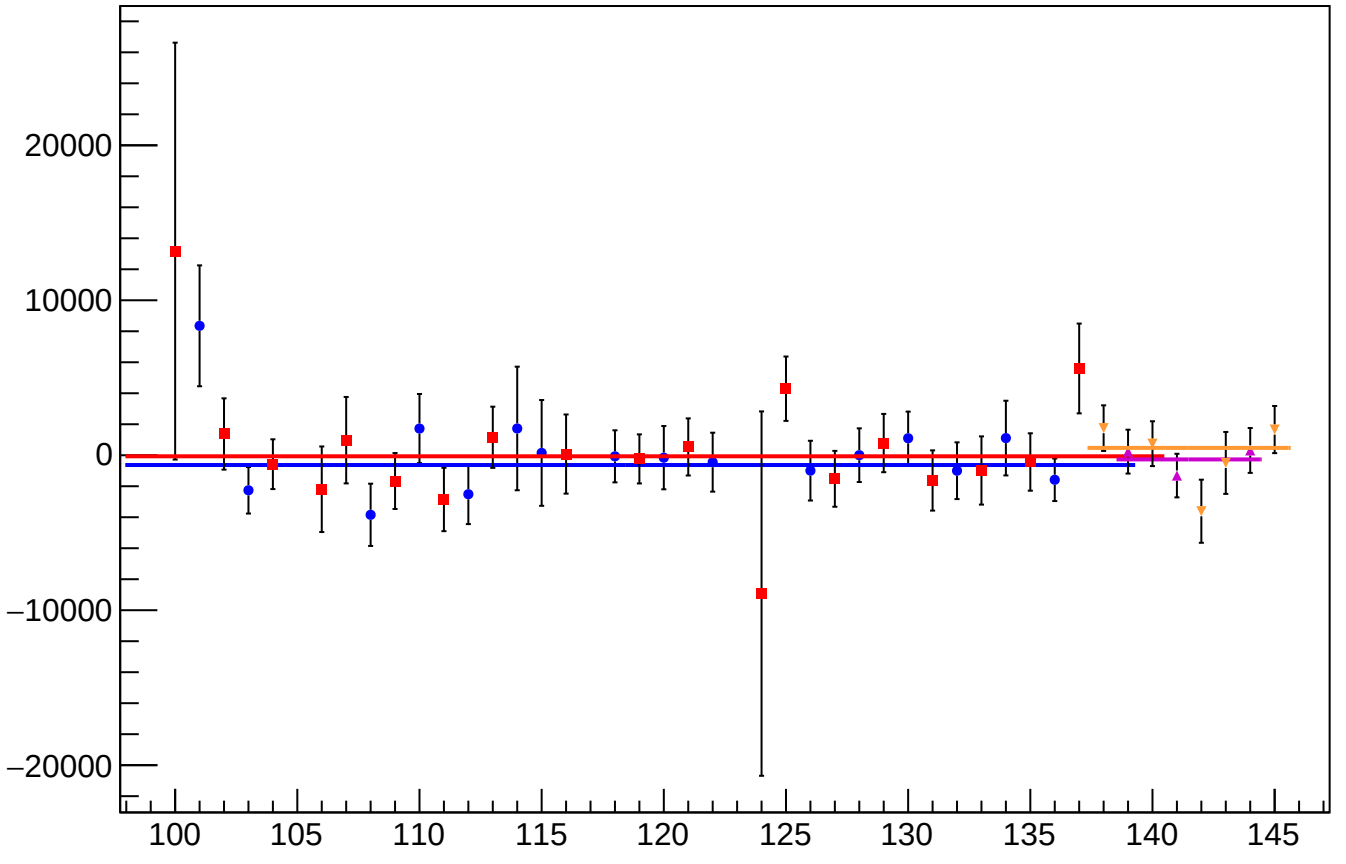
In: 35.052+/-0.009 $\chi^2$/NDF:2978862.0/18

Out: 35.470+/-0.009 $\chi^2$/NDF:5596667.6/23

All: 35.256+/-0.007 $\chi^2$/NDF: 8576525.5/42


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.2
0
−0.2
−0.4
−0.6
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 8.3/15
Left Out: -0.000+/-0.000 χ²/NDF:3.3/4
Right Out: -0.000+/-0.000 χ²/NDF: 27.3/18
Left In: -0.000+/-0.000 χ²/NDF:6.7/2
Left: -0.000+/-0.000 χ²/NDF: 10.4/7
Right: -0.000+/-0.000 χ²/NDF: 35.6/34
In: -0.000+/-0.000 χ²/NDF:17.3/18
Out: -0.000+/-0.000 χ²/NDF:31.6/23
All: -0.000+/-0.000 χ²/NDF: 49.1/42


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 3207856.3/15
Left Out: 0.000+/-0.000 χ²/NDF:594231.8/4
Right Out: 0.000+/-0.000 χ²/NDF: 3674861.8/18
Left In: 0.000+/-0.000 χ²/NDF:493025.0/2
Left: 0.000+/-0.000 χ²/NDF: 1113844.3/7
Right: 0.000+/-0.000 χ²/NDF: 6902390.3/34
In: 0.000+/-0.000 χ²/NDF:5580271.6/18
Out: 0.000+/-0.000 χ²/NDF:6090933.7/23
All: 0.000+/-0.000 χ²/NDF: 11676034.0/42




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 474.644+/-732.595 $\chi^2$/NDF:5.7/4

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -269.681+/-821.347 $\chi^2$/NDF:0.8/2

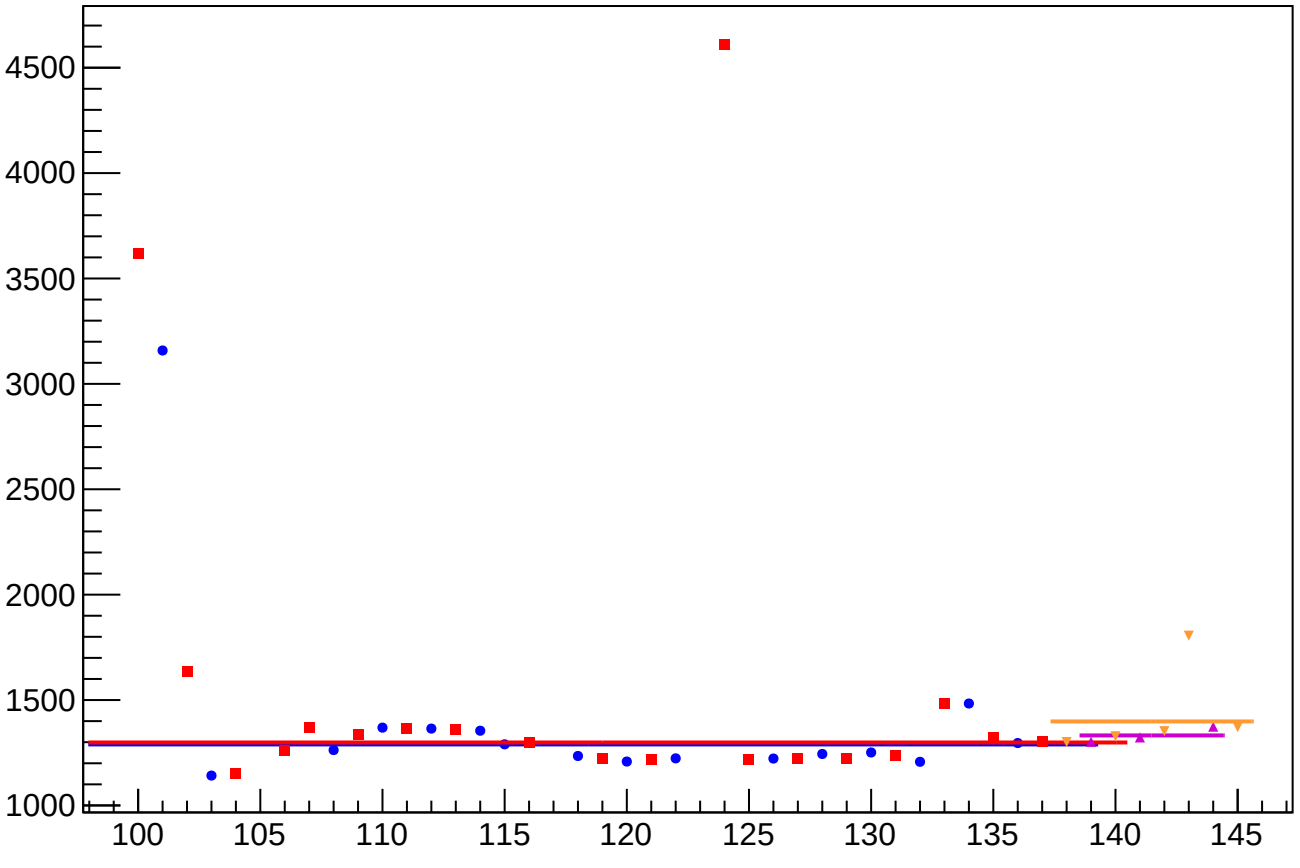
Left: 144.855+/-546.719 $\chi^2$/NDF: 6.9/7

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -536.571+/-419.957 $\chi^2$/NDF:14.9/18

Out: 98.914+/-406.004 $\chi^2$/NDF:21.9/23

All: -208.096+/-291.896 $\chi^2$/NDF: 38.0/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1332.130+/-0.581 $\chi^2$/NDF:2652.6/2

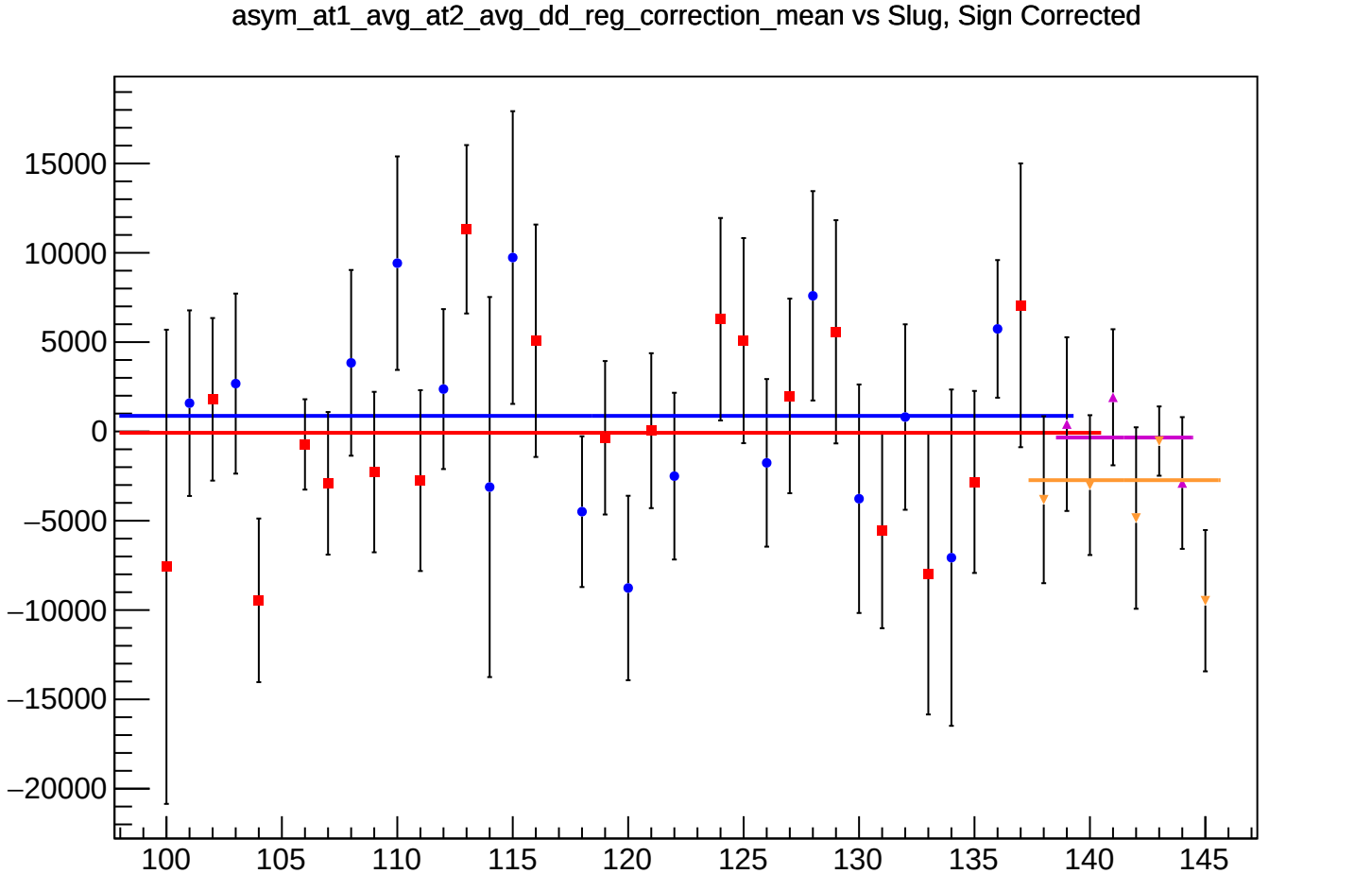
Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521313.3/18

Out: 1329.195+/-0.287 $\chi^2$/NDF:443340.7/23

All: 1315.416+/-0.206 $\chi^2$/NDF: 969448.6/42




Right In: 870.295+/-1325.278 $\chi^2$/NDF: 14.0/15

Left Out: -2728.713+/-1444.041 $\chi^2$/NDF:4.4/4

Right Out: -77.323+/-1111.074 $\chi^2$/NDF: 18.4/18

Left In: -341.754+/-2326.506 $\chi^2$/NDF:0.9/2

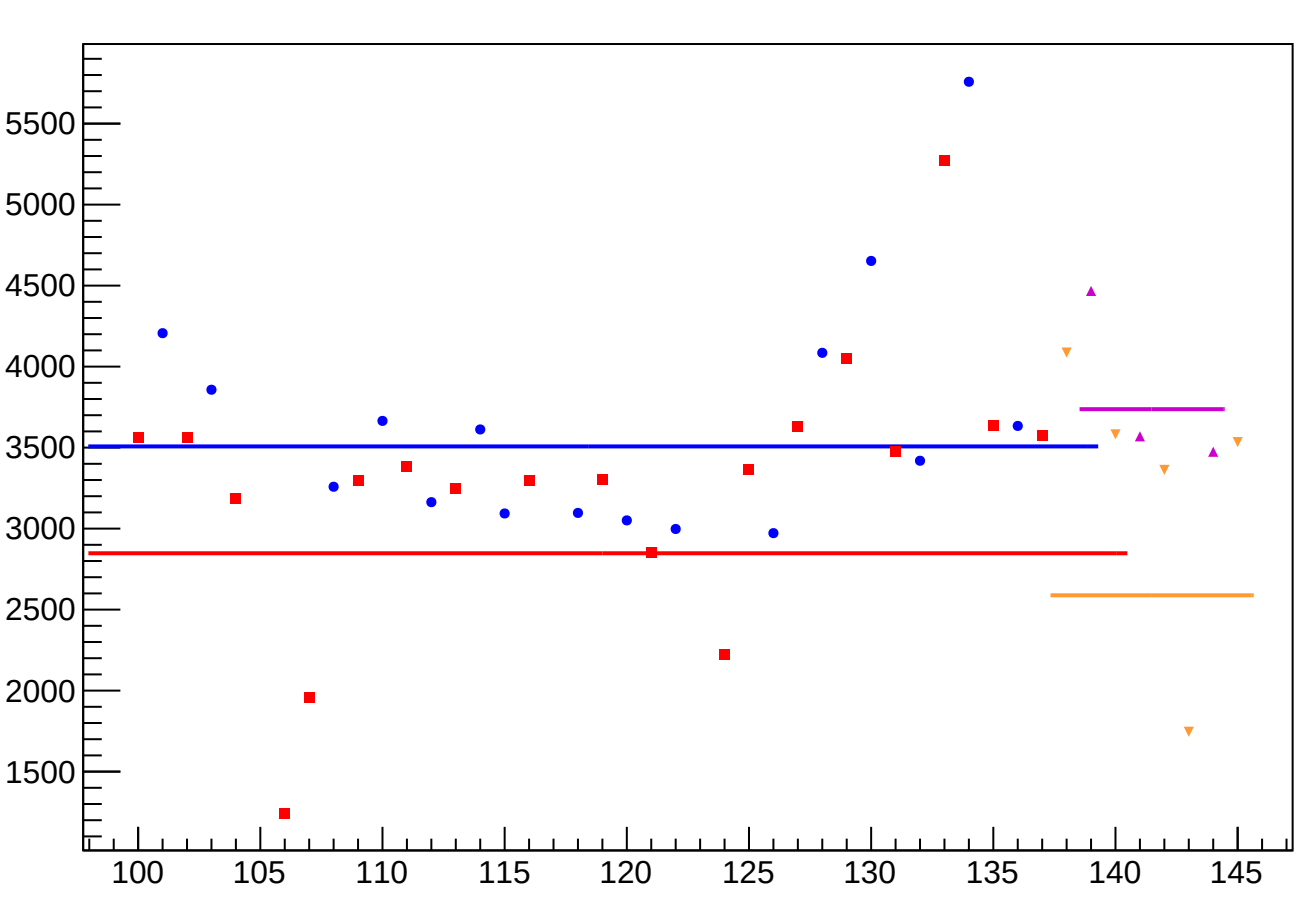
Left: -2064.871+/-1226.914 $\chi^2$/NDF: 6.0/7

Right: 313.810+/-851.438 $\chi^2$/NDF: 32.7/34

In: 573.350+/-1151.548 $\chi^2$/NDF:15.1/18

Out: -1063.275+/-880.583 $\chi^2$/NDF:24.9/23

All: -459.378+/-699.502 $\chi^2$/NDF: 41.3/42




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 2588.366+/-1.021 $\chi^2$/NDF:872391.5/4

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 3737.276+/-1.645 $\chi^2$/NDF:59109.6/2

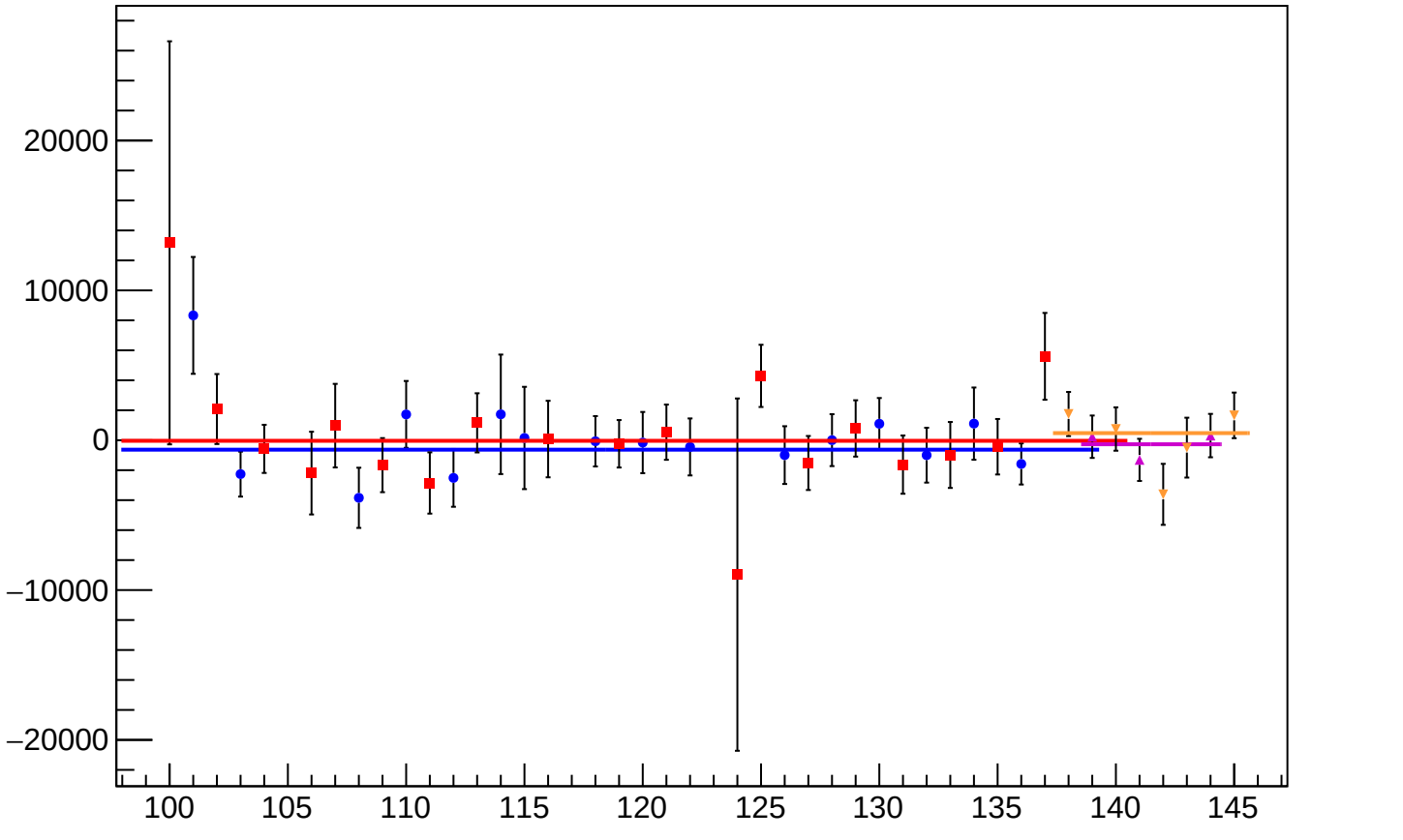
Left: 2907.892+/-0.868 $\chi^2$/NDF: 1283599.4/7

Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3563.716+/-0.814 $\chi^2$/NDF:427831.3/18

Out: 2751.347+/-0.623 $\chi^2$/NDF:2412324.4/23

All: 3051.102+/-0.495 $\chi^2$/NDF: 3468228.2/42




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 474.679+/-732.595 $\chi^2$/NDF:5.7/4

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -269.641+/-821.347 $\chi^2$/NDF:0.8/2

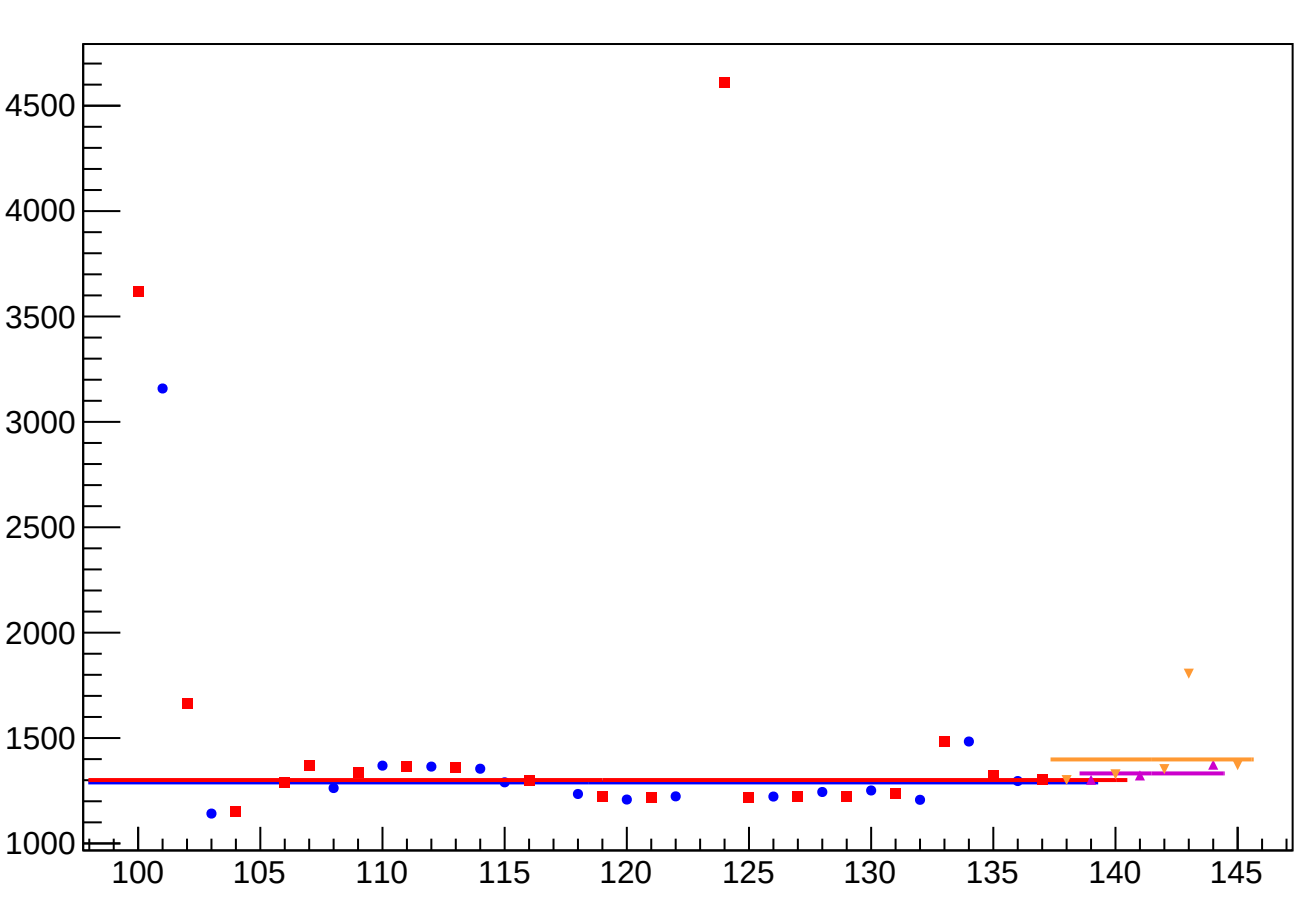
Left: 144.892+/-546.719 $\chi^2$/NDF: 6.9/7

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -536.845+/-419.957 $\chi^2$/NDF:14.9/18

Out: 119.176+/-406.191 $\chi^2$/NDF:22.3/23

All: -197.906+/-291.966 $\chi^2$/NDF: 38.4/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1332.131+/-0.581 $\chi^2$/NDF:2652.6/2

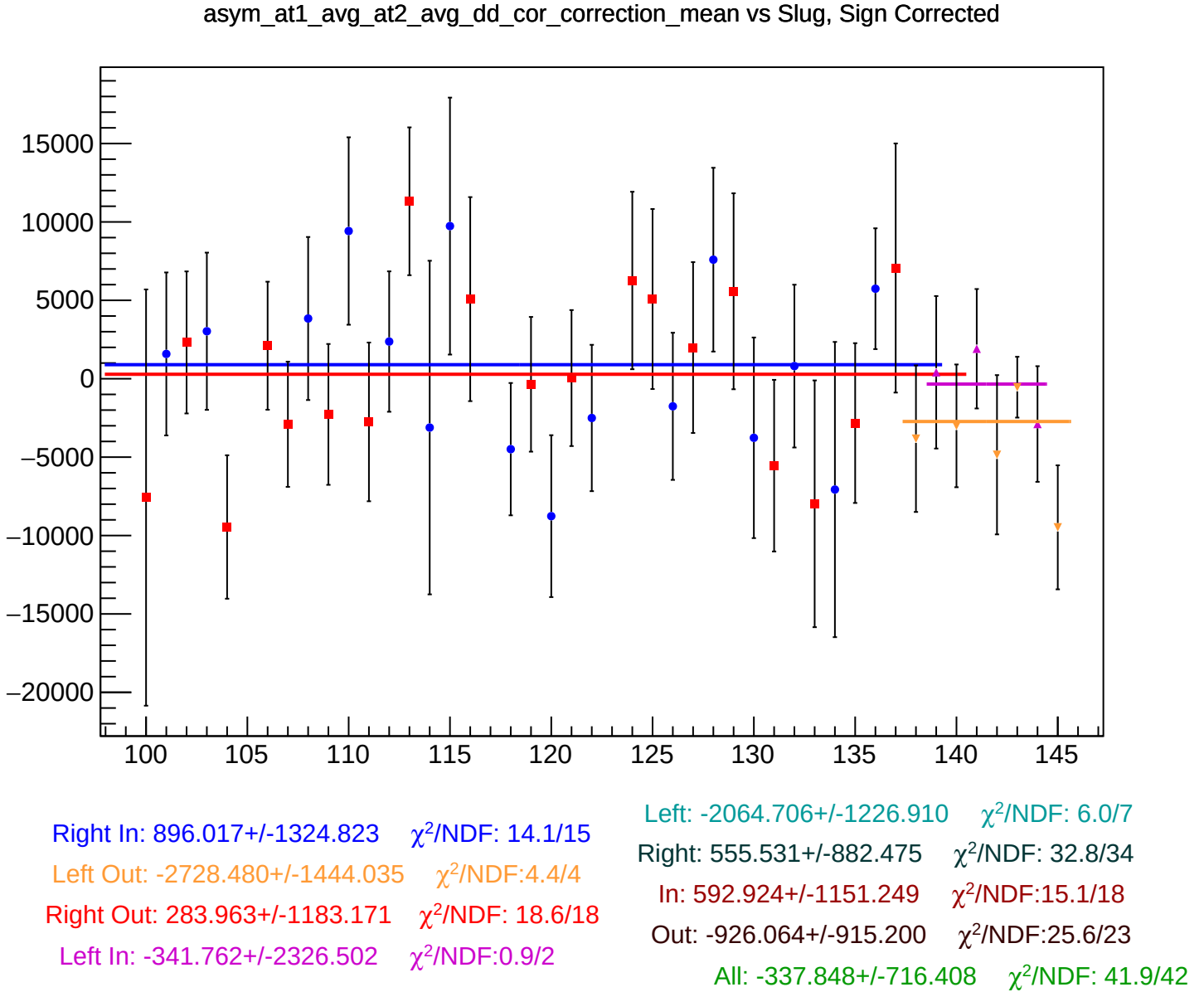
Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

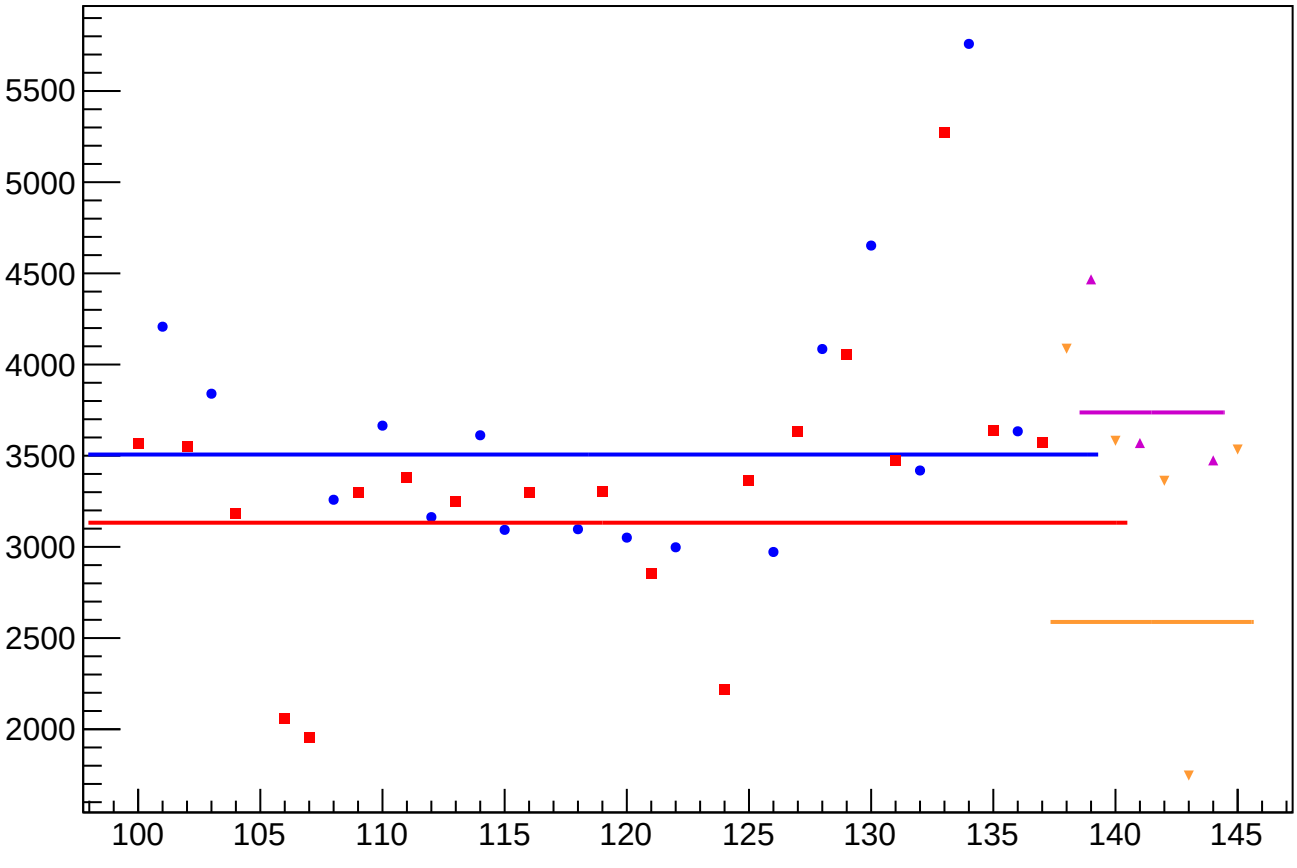
Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521314.8/18

Out: 1330.662+/-0.287 $\chi^2$/NDF:448815.4/23

All: 1316.161+/-0.206 $\chi^2$/NDF: 975424.8/42


asym_at1_avg_at2_avg_dd_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -2728.480+/-1444.035 χ²/NDF:4.4/4
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -341.762+/-2326.502 χ²/NDF:0.9/2
Left: -2064.706+/-1226.910 χ²/NDF: 6.0/7
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 592.924+/-1151.249 χ²/NDF:15.1/18
Out: -926.064+/-915.200 χ²/NDF:25.6/23
All: -337.848+/-716.408 χ²/NDF: 41.9/42




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2588.353+/-1.021 $\chi^2$/NDF:872402.9/4

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3737.270+/-1.645 $\chi^2$/NDF:59108.5/2

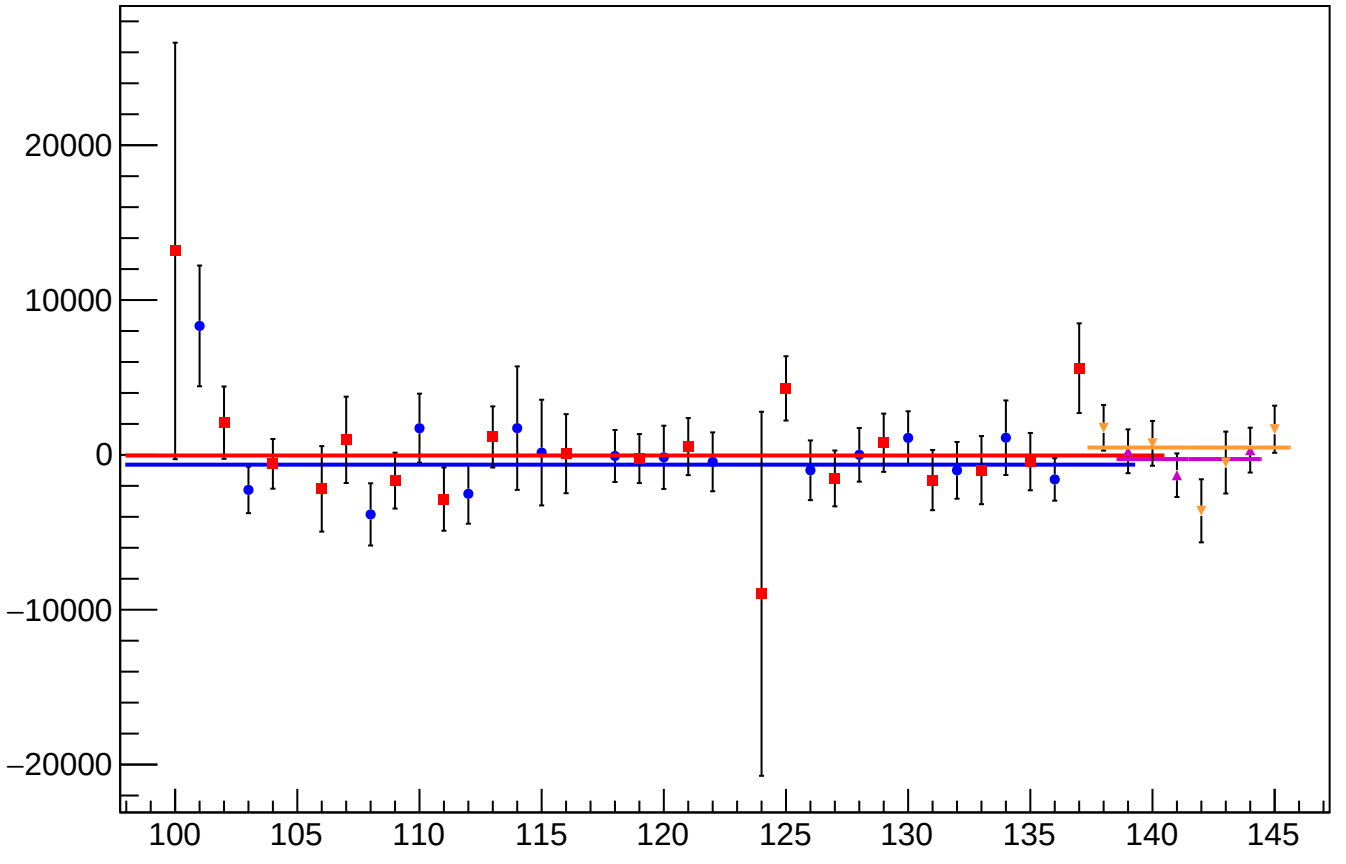
Left: 2907.880+/-0.868 $\chi^2$/NDF: 1283615.3/7

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3562.996+/-0.814 $\chi^2$/NDF:427207.8/18

Out: 2913.981+/-0.647 $\chi^2$/NDF:1691987.4/23

All: 3165.307+/-0.507 $\chi^2$/NDF: 2508679.9/42




Right In: -631.427+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 474.679+/-732.595 $\chi^2$/NDF:5.7/4

Right Out: -38.623+/-488.084 $\chi^2$/NDF: 16.3/18

Left In: -269.641+/-821.347 $\chi^2$/NDF:0.8/2

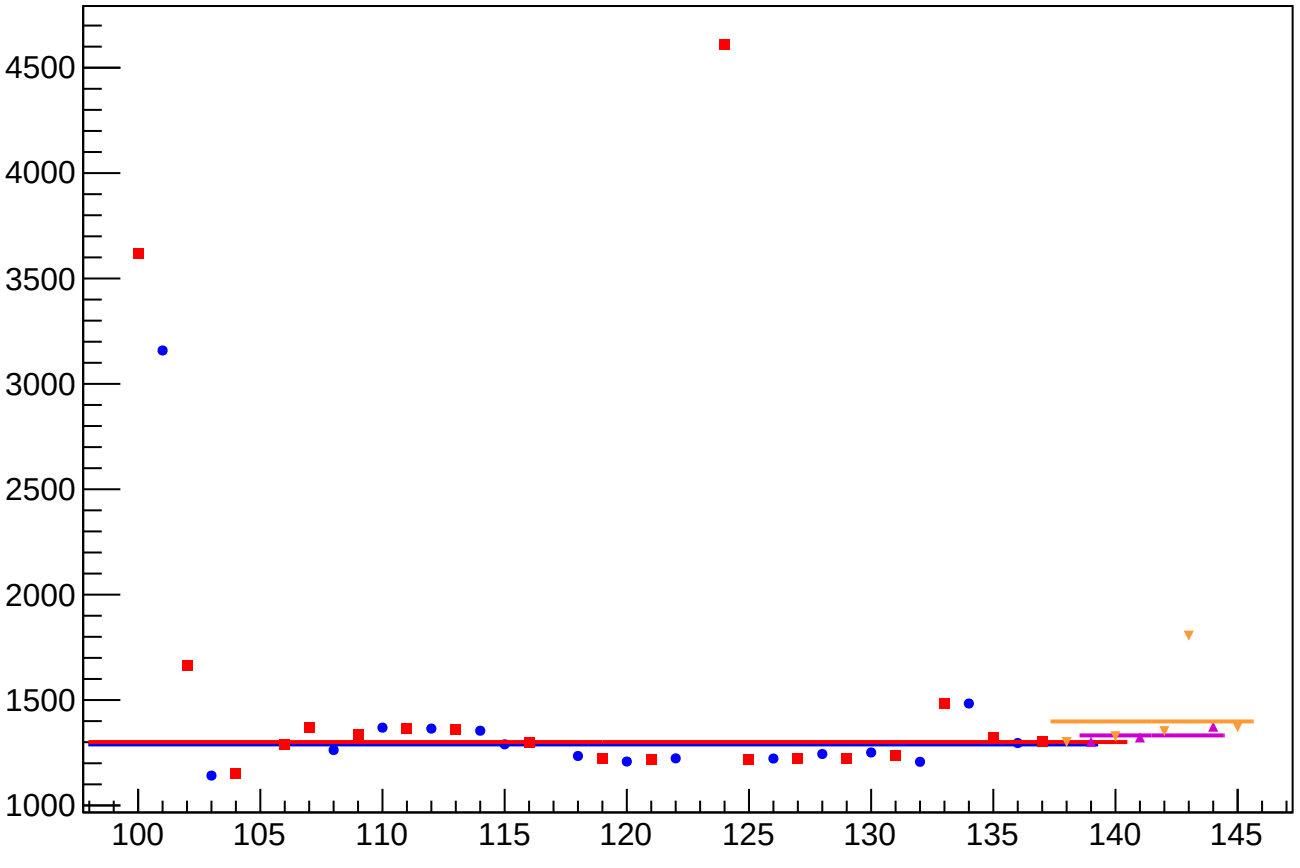
Left: 144.892+/-546.719 $\chi^2$/NDF: 6.9/7

Right: -334.674+/-345.332 $\chi^2$/NDF: 30.9/34

In: -536.845+/-419.957 $\chi^2$/NDF:14.9/18

Out: 119.176+/-406.191 $\chi^2$/NDF:22.3/23

All: -197.906+/-291.966 $\chi^2$/NDF: 38.4/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1332.131+/-0.581 $\chi^2$/NDF:2652.6/2

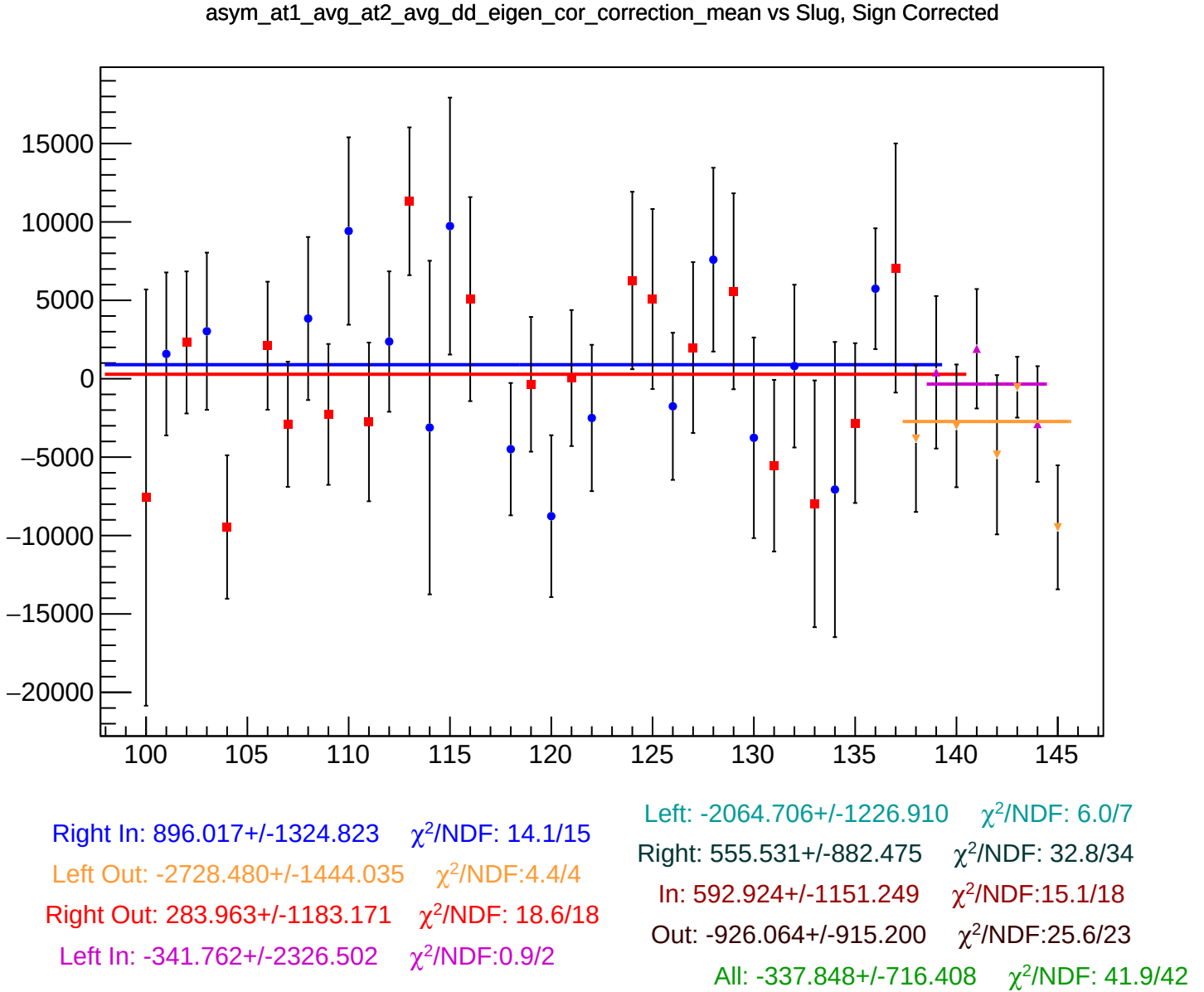
Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521314.8/18

Out: 1330.662+/-0.287 $\chi^2$/NDF:448815.4/23

All: 1316.161+/-0.206 $\chi^2$/NDF: 975424.8/42


asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
15000
10000
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−5000
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−15000
−20000
100
105
110
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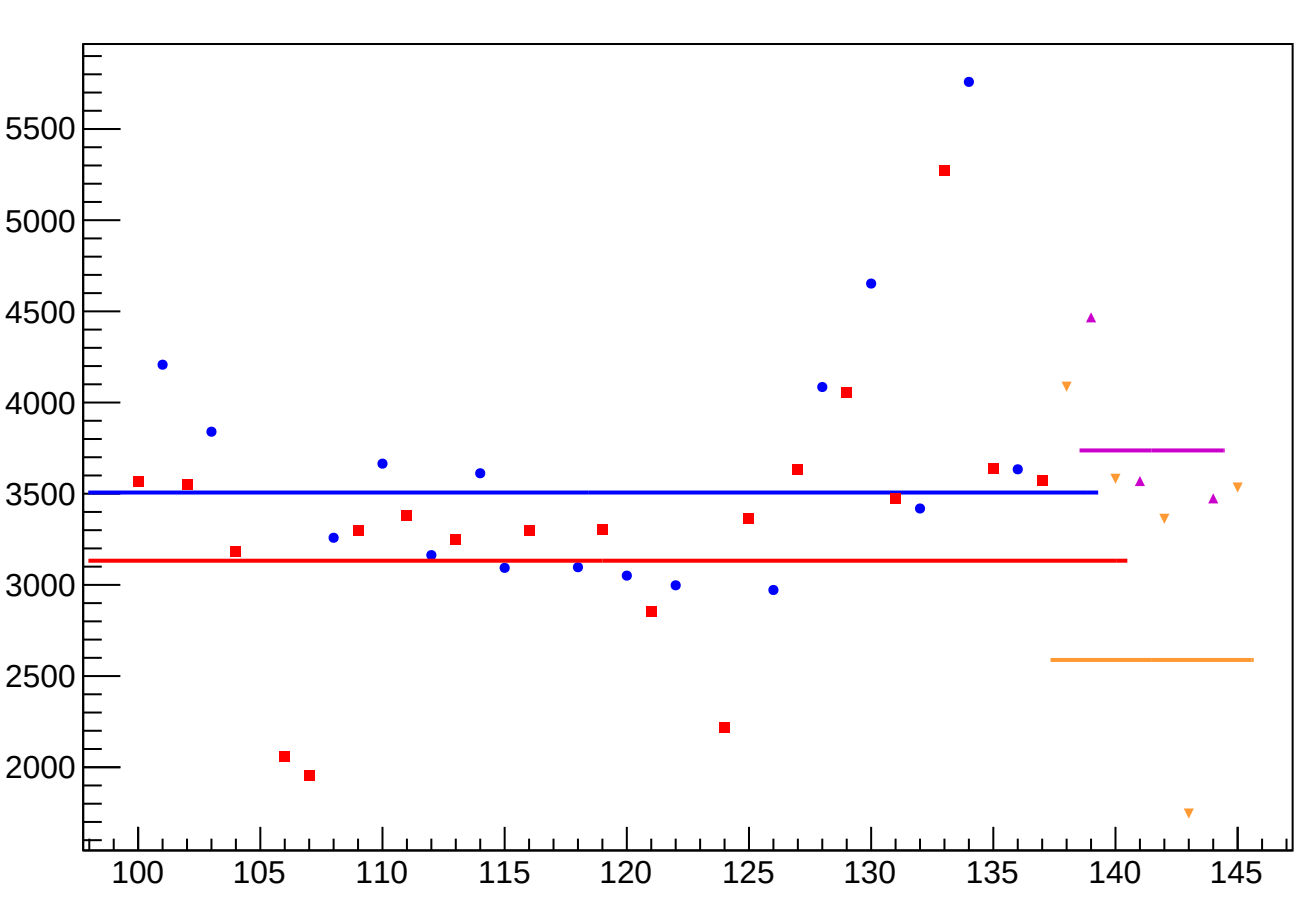
145
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -2728.480+/-1444.035 χ²/NDF:4.4/4
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -341.762+/-2326.502 χ²/NDF:0.9/2
Left: -2064.706+/-1226.910 χ²/NDF: 6.0/7
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 592.924+/-1151.249 χ²/NDF:15.1/18
Out: -926.064+/-915.200 χ²/NDF:25.6/23
All: -337.848+/-716.408 χ²/NDF: 41.9/42




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2588.353+/-1.021 $\chi^2$/NDF:872402.9/4

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3737.270+/-1.645 $\chi^2$/NDF:59108.5/2

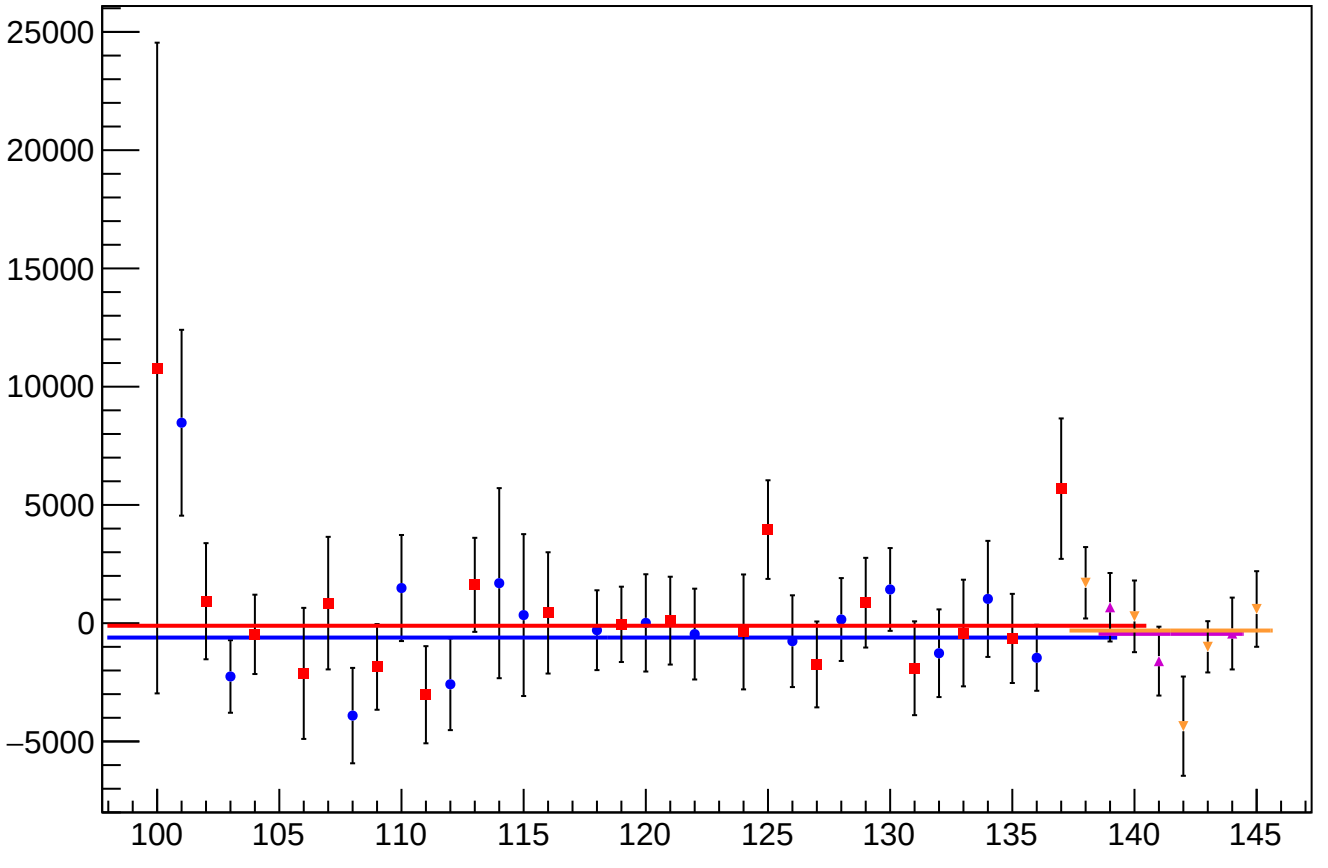
Left: 2907.880+/-0.868 $\chi^2$/NDF: 1283615.3/7

Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3562.996+/-0.814 $\chi^2$/NDF:427207.8/18

Out: 2913.981+/-0.647 $\chi^2$/NDF:1691987.4/23

All: 3165.307+/-0.507 $\chi^2$/NDF: 2508679.9/42




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: -310.693+/-653.179 $\chi^2$/NDF:6.4/4

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -451.534+/-850.702 $\chi^2$/NDF:1.2/2

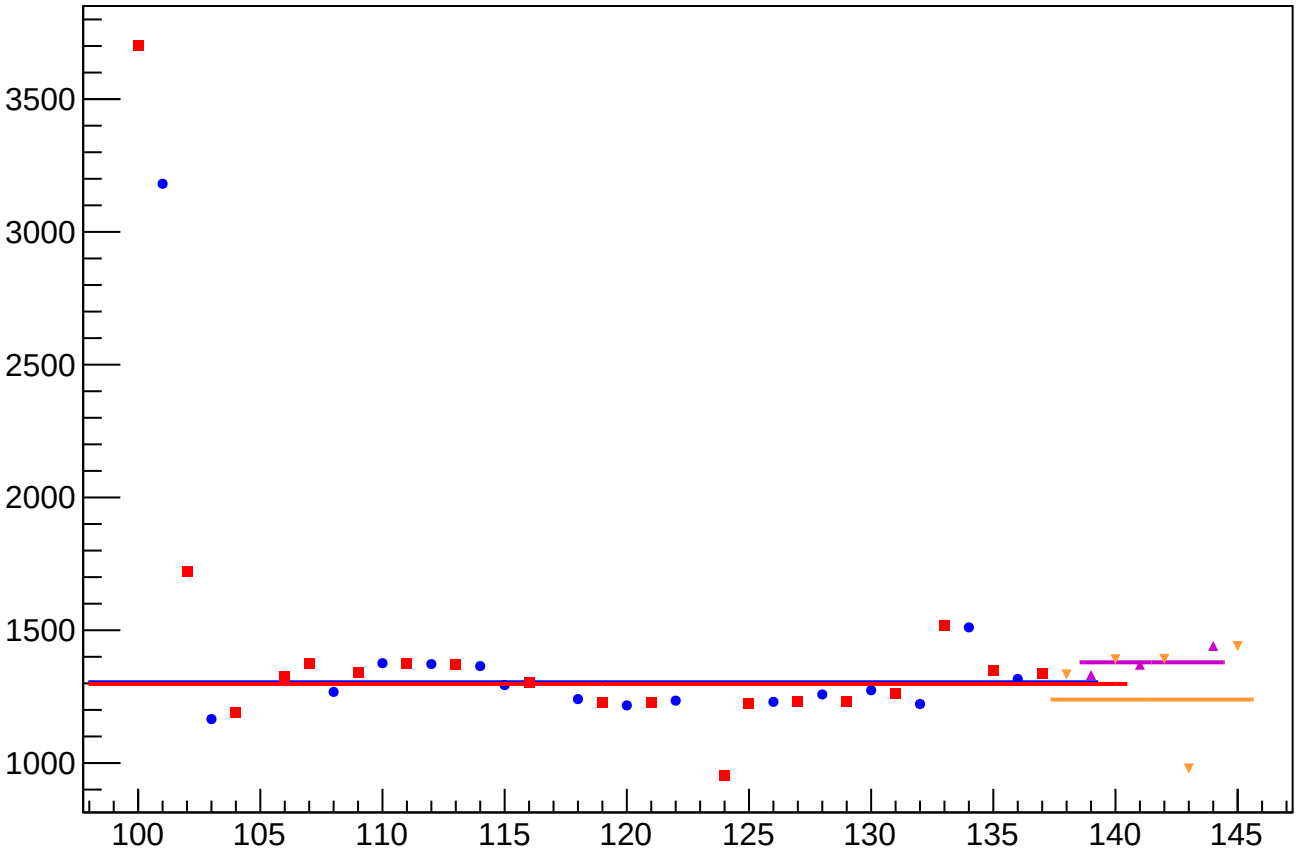
Left: -362.929+/-518.081 $\chi^2$/NDF: 7.6/7

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -568.395+/-427.314 $\chi^2$/NDF:15.4/18

Out: -180.537+/-389.679 $\chi^2$/NDF:21.3/23

All: -356.637+/-287.932 $\chi^2$/NDF: 37.1/42




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1238.998+/-0.462 $\chi^2$/NDF:185091.7/4

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1379.156+/-0.602 $\chi^2$/NDF:5549.6/2

Left: 1290.981+/-0.366 $\chi^2$/NDF: 224795.1/7

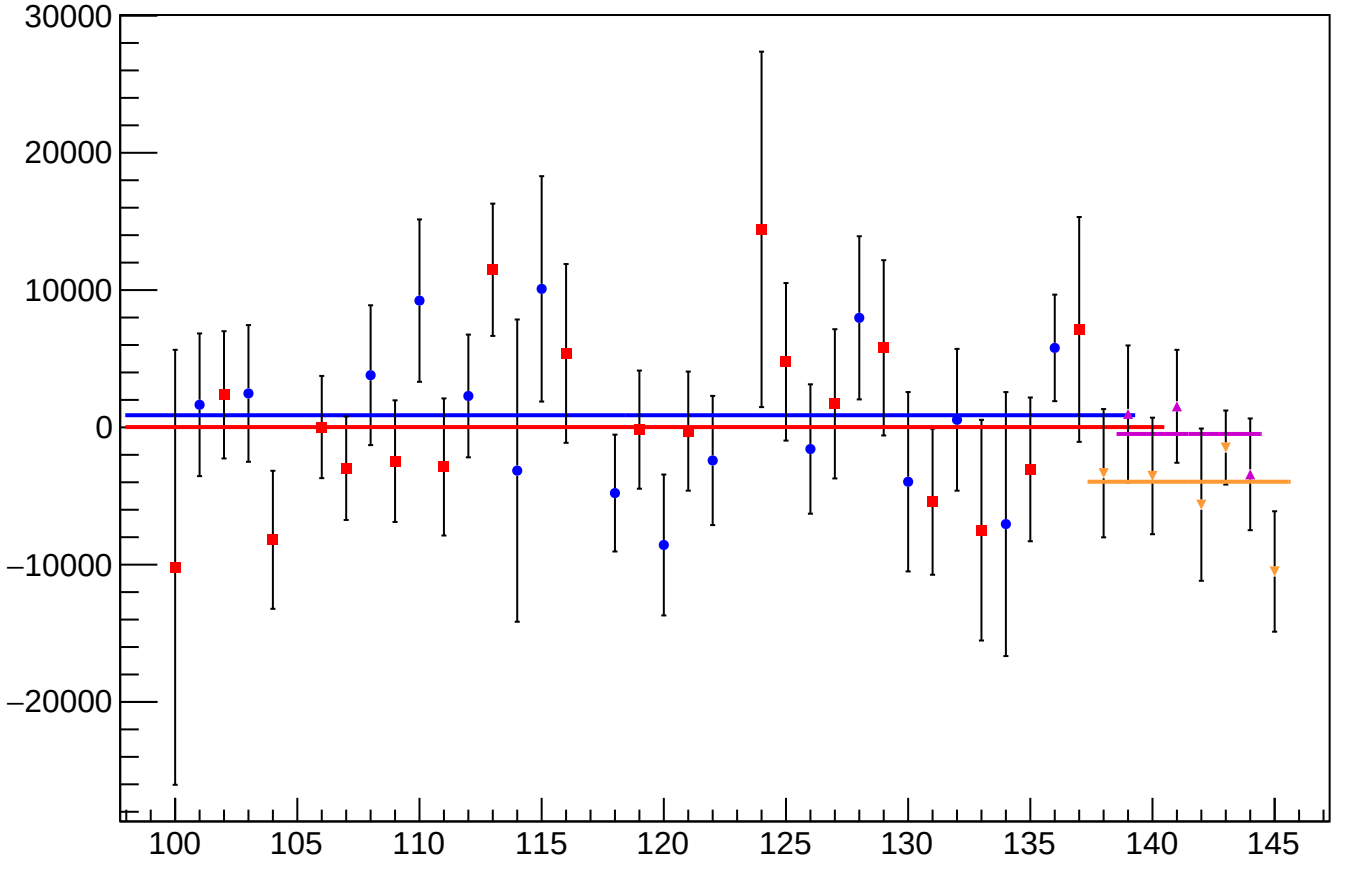
Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1323.039+/-0.302 $\chi^2$/NDF:527778.7/18

Out: 1276.889+/-0.275 $\chi^2$/NDF:408632.3/23

All: 1297.832+/-0.204 $\chi^2$/NDF: 949153.2/42

asym_at1_avg_at2_avg_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -3960.020+/-1758.978 $\chi^2$/NDF:3.2/4

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -479.573+/-2502.432 $\chi^2$/NDF:0.8/2

Left: -2809.066+/-1439.043 $\chi^2$/NDF: 5.3/7

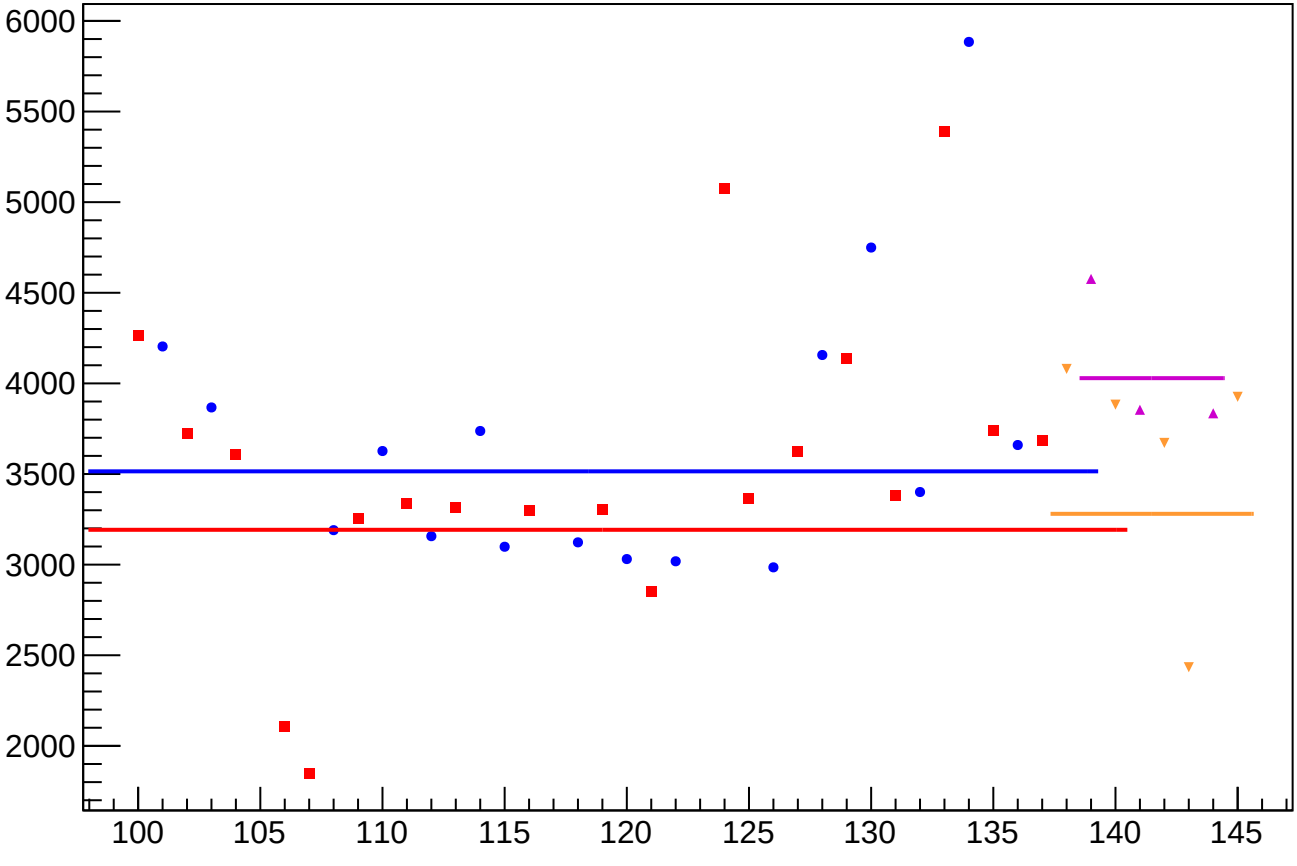
Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 584.624+/-1172.638 $\chi^2$/NDF:15.2/18

Out: -1243.611+/-991.298 $\chi^2$/NDF:23.5/23

All: -481.633+/-757.041 $\chi^2$/NDF: 40.1/42

asym_at1_avg_at2_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 3280.329+/-1.244 $\chi^2$/NDF:349008.8/4

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 4028.899+/-1.769 $\chi^2$/NDF:32241.1/2

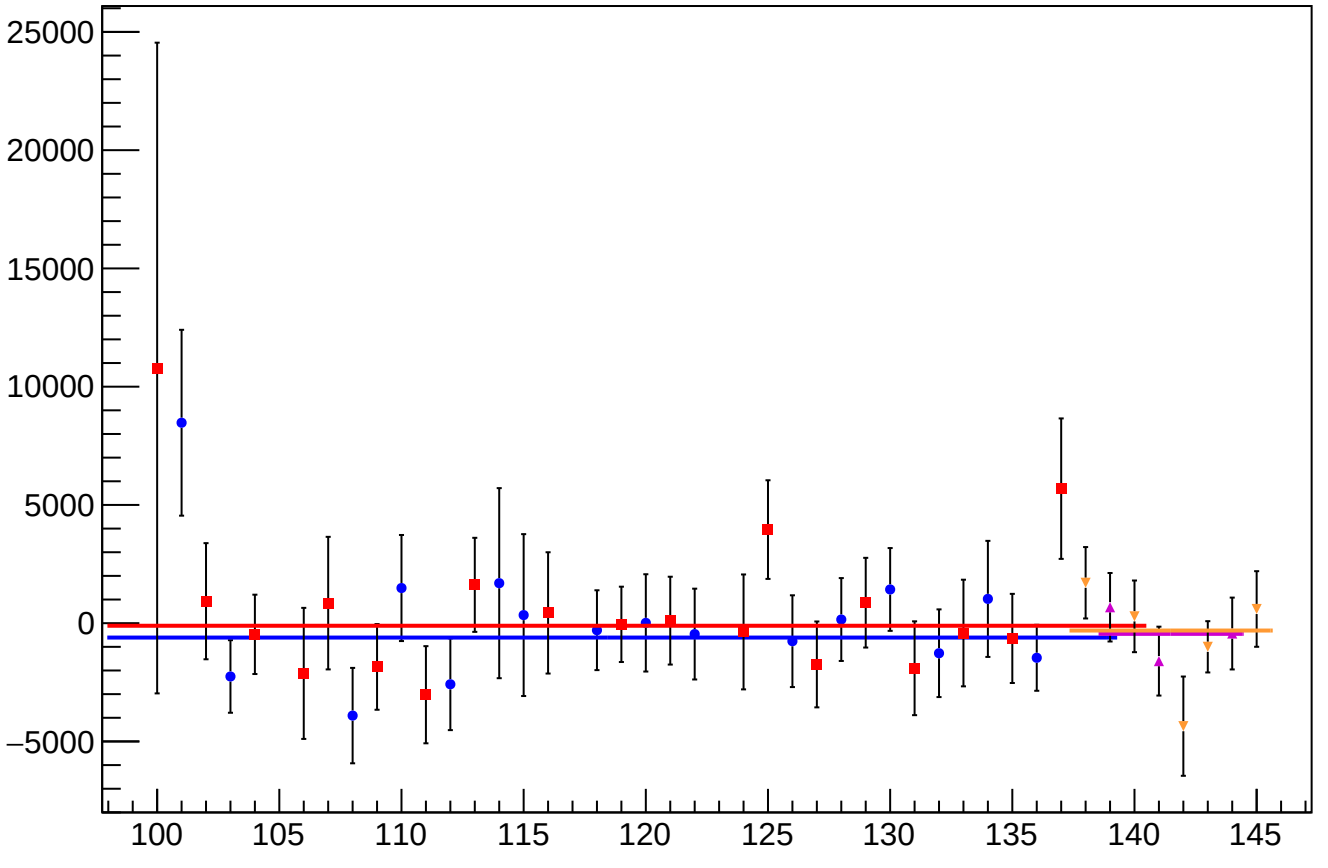
Left: 3527.875+/-1.018 $\chi^2$/NDF: 501033.4/7

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 3627.646+/-0.829 $\chi^2$/NDF:473209.3/18

Out: 3220.193+/-0.701 $\chi^2$/NDF:1124930.2/23

All: 3390.013+/-0.535 $\chi^2$/NDF: 1738967.3/42




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: -310.700+/-653.180 $\chi^2$/NDF:6.4/4

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -451.531+/-850.703 $\chi^2$/NDF:1.2/2

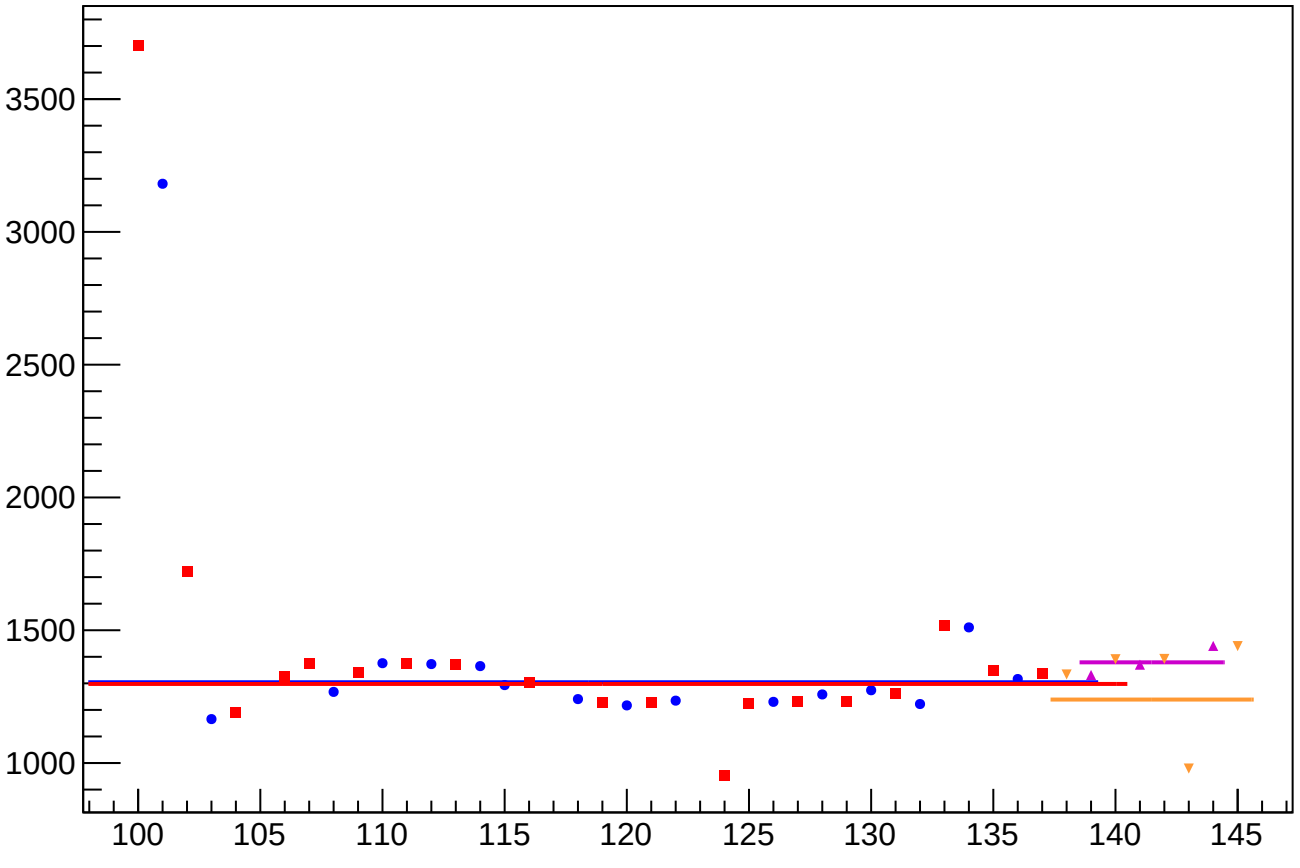
Left: -362.932+/-518.081 $\chi^2$/NDF: 7.6/7

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -568.397+/-427.314 $\chi^2$/NDF:15.4/18

Out: -180.543+/-389.679 $\chi^2$/NDF:21.3/23

All: -356.642+/-287.932 $\chi^2$/NDF: 37.1/42




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1238.999+/-0.462 $\chi^2$/NDF:185092.0/4

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1379.157+/-0.602 $\chi^2$/NDF:5549.7/2

Left: 1290.982+/-0.366 $\chi^2$/NDF: 224795.5/7

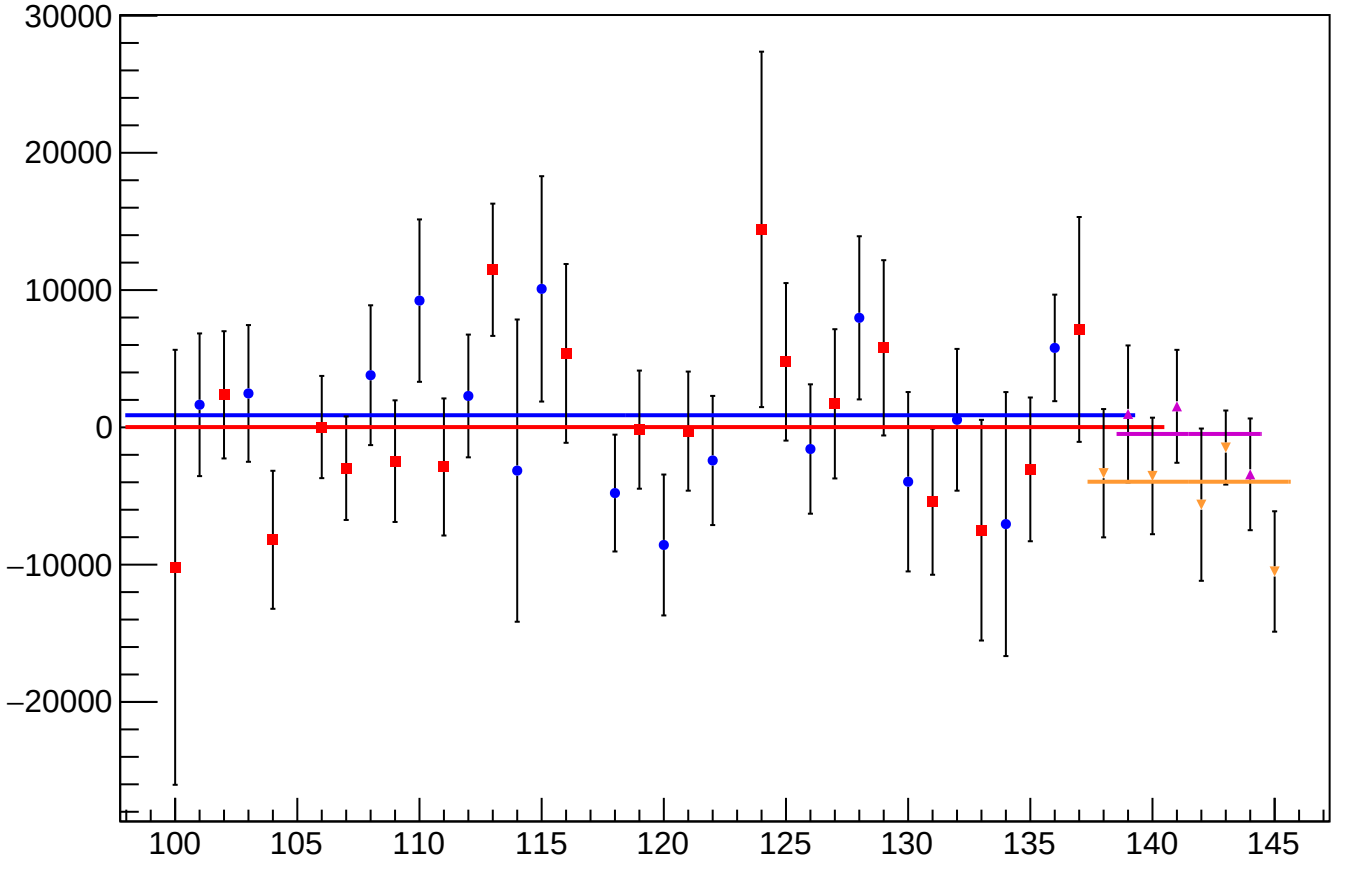
Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

In: 1323.040+/-0.302 $\chi^2$/NDF:527779.3/18

Out: 1276.889+/-0.275 $\chi^2$/NDF:408632.3/23

All: 1297.832+/-0.204 $\chi^2$/NDF: 949153.6/42

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 884.047+/-1327.396 $\chi^2$/NDF: 14.1/15

Left Out: -3960.025+/-1758.981 $\chi^2$/NDF:3.2/4

Right Out: 20.677+/-1200.012 $\chi^2$/NDF: 16.8/18

Left In: -479.569+/-2502.436 $\chi^2$/NDF:0.8/2

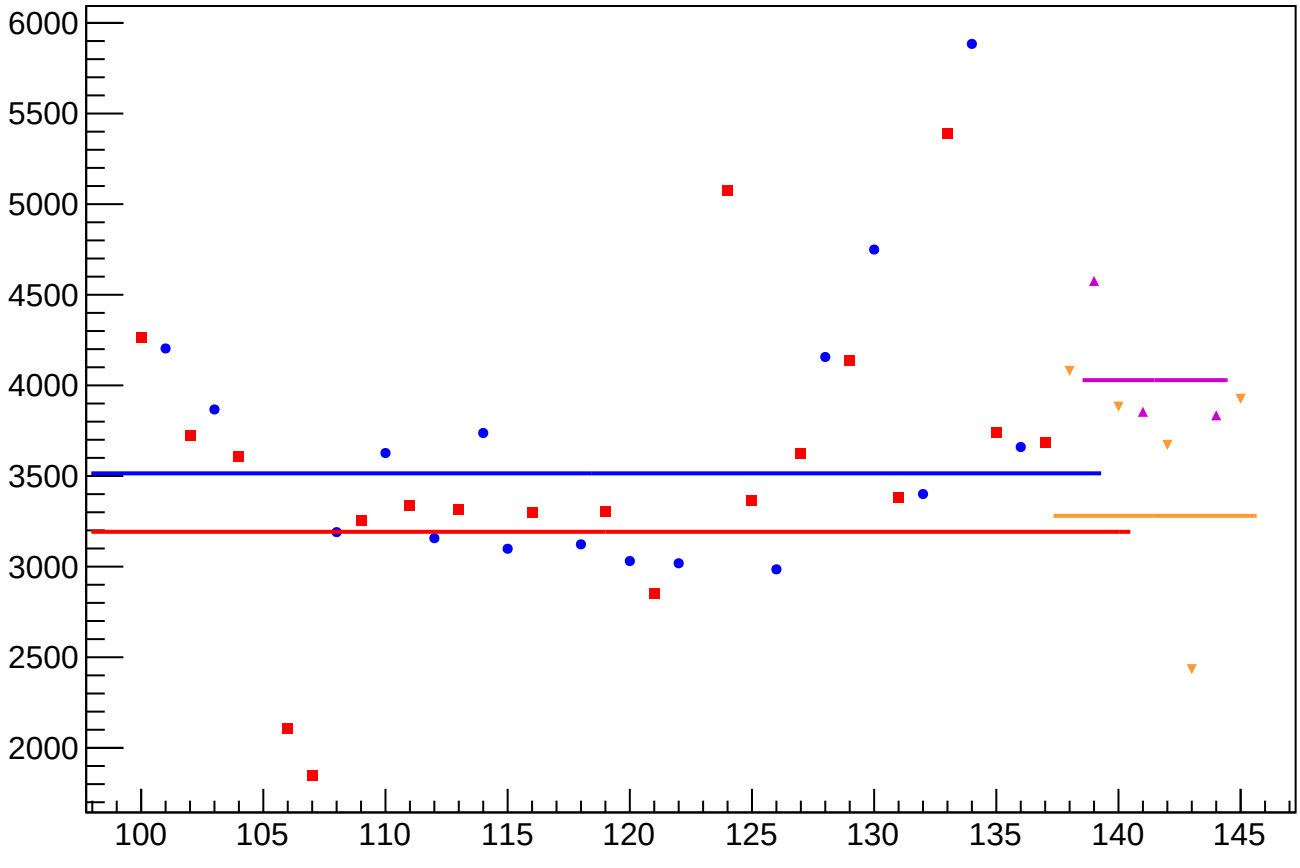
Left: -2809.068+/-1439.045 $\chi^2$/NDF: 5.3/7

Right: 408.958+/-890.174 $\chi^2$/NDF: 31.2/34

In: 584.619+/-1172.637 $\chi^2$/NDF:15.2/18

Out: -1243.608+/-991.297 $\chi^2$/NDF:23.5/23

All: -481.633+/-757.040 $\chi^2$/NDF: 40.1/42




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 3280.335+/-1.244 $\chi^2$/NDF:349009.7/4

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 4028.906+/-1.769 $\chi^2$/NDF:32241.7/2

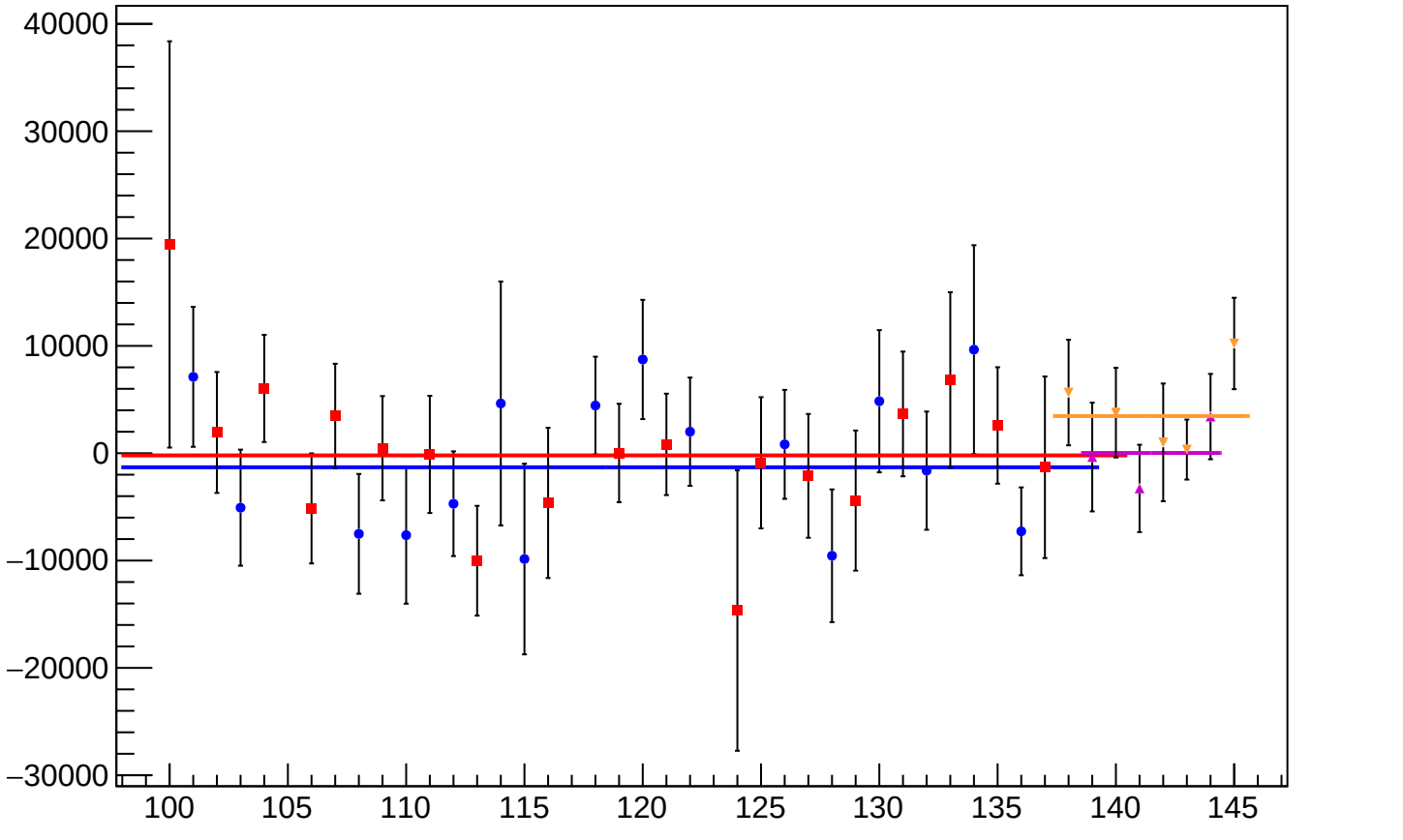
Left: 3527.881+/-1.018 $\chi^2$/NDF: 501034.8/7

Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 3627.640+/-0.829 $\chi^2$/NDF:473218.0/18

Out: 3220.189+/-0.701 $\chi^2$/NDF:1124934.4/23

All: 3390.008+/-0.535 $\chi^2$/NDF: 1738978.6/42




Right In: -1309.349+/-1431.624 $\chi^2$/NDF: 17.6/15

Left Out: 3463.991+/-1781.602 $\chi^2$/NDF:4.2/4

Right Out: -201.593+/-1336.062 $\chi^2$/NDF: 11.6/18

Left In: 22.793+/-2479.396 $\chi^2$/NDF:1.4/2

Left: 2292.215+/-1446.817 $\chi^2$/NDF: 6.8/7

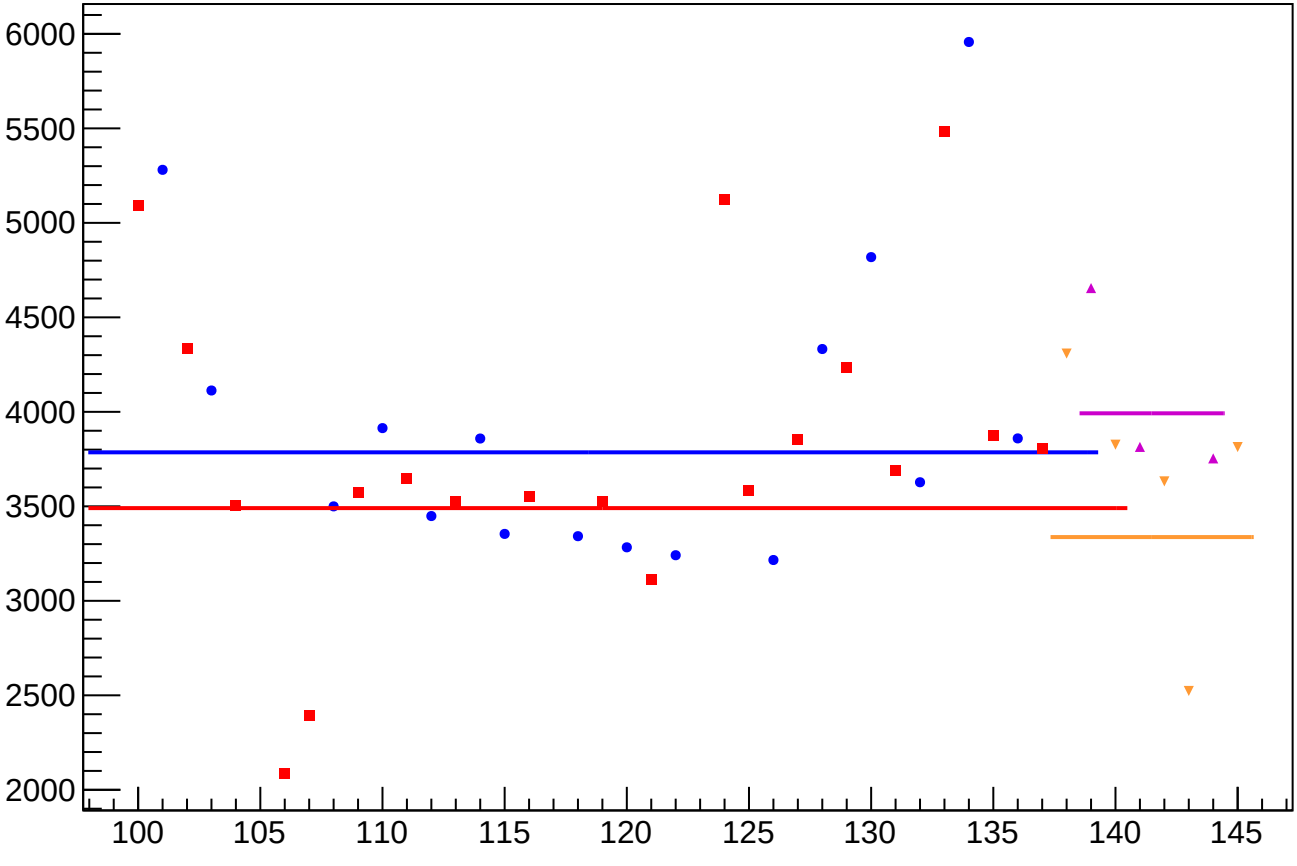
Right: -717.269+/-976.776 $\chi^2$/NDF: 29.5/34

In: -976.264+/-1239.792 $\chi^2$/NDF:19.2/18

Out: 1117.841+/-1068.890 $\chi^2$/NDF:18.5/23

All: 224.961+/-809.554 $\chi^2$/NDF: 39.3/42

# asym_at1_avg_at2_avg_dd_rms vs Slug, Sign Corrected




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 3337.348+/-1.260 $\chi^2$/NDF:305909.8/4

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 3992.262+/-1.753 $\chi^2$/NDF:45251.6/2

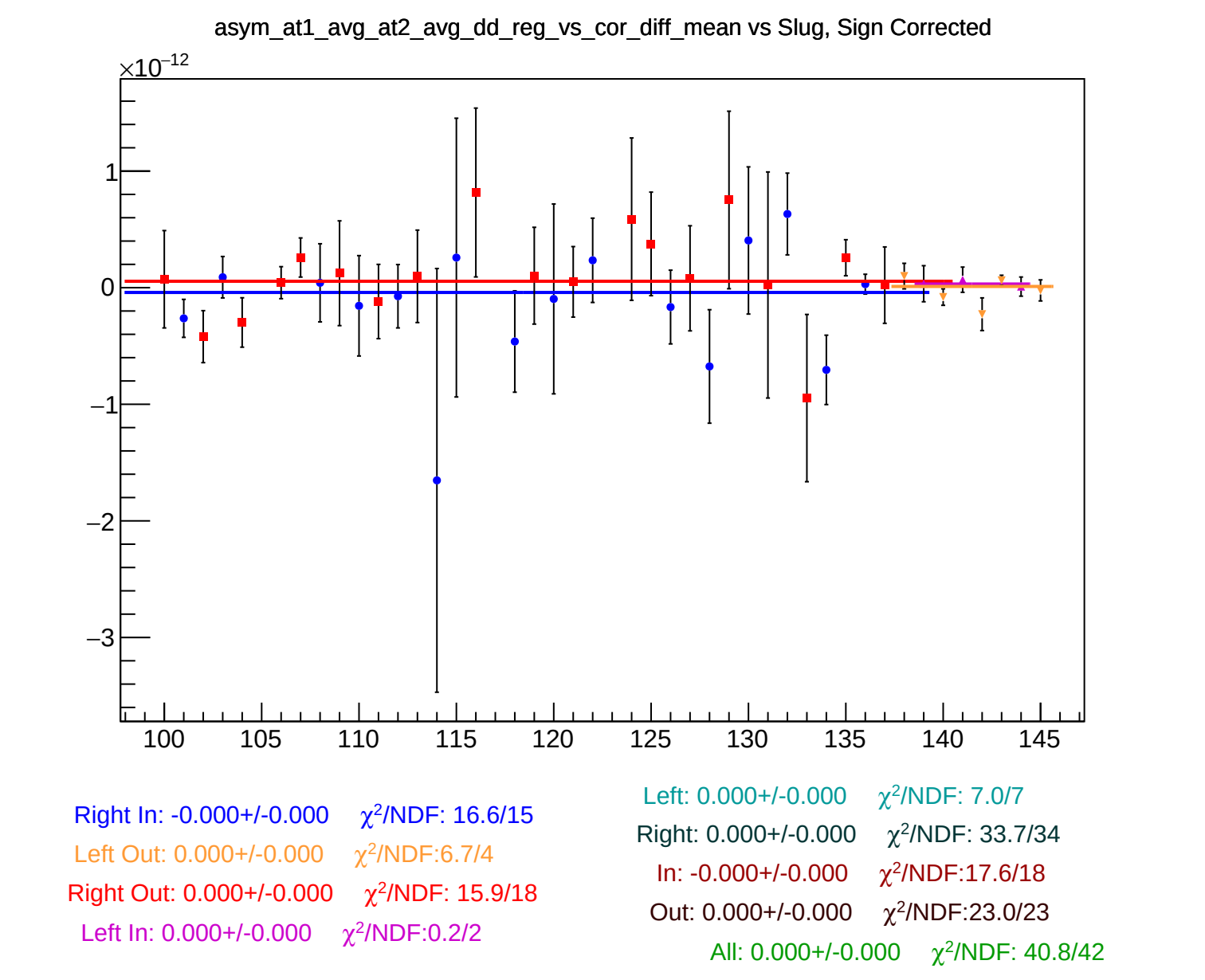
Left: 3560.356+/-1.023 $\chi^2$/NDF: 443187.8/7

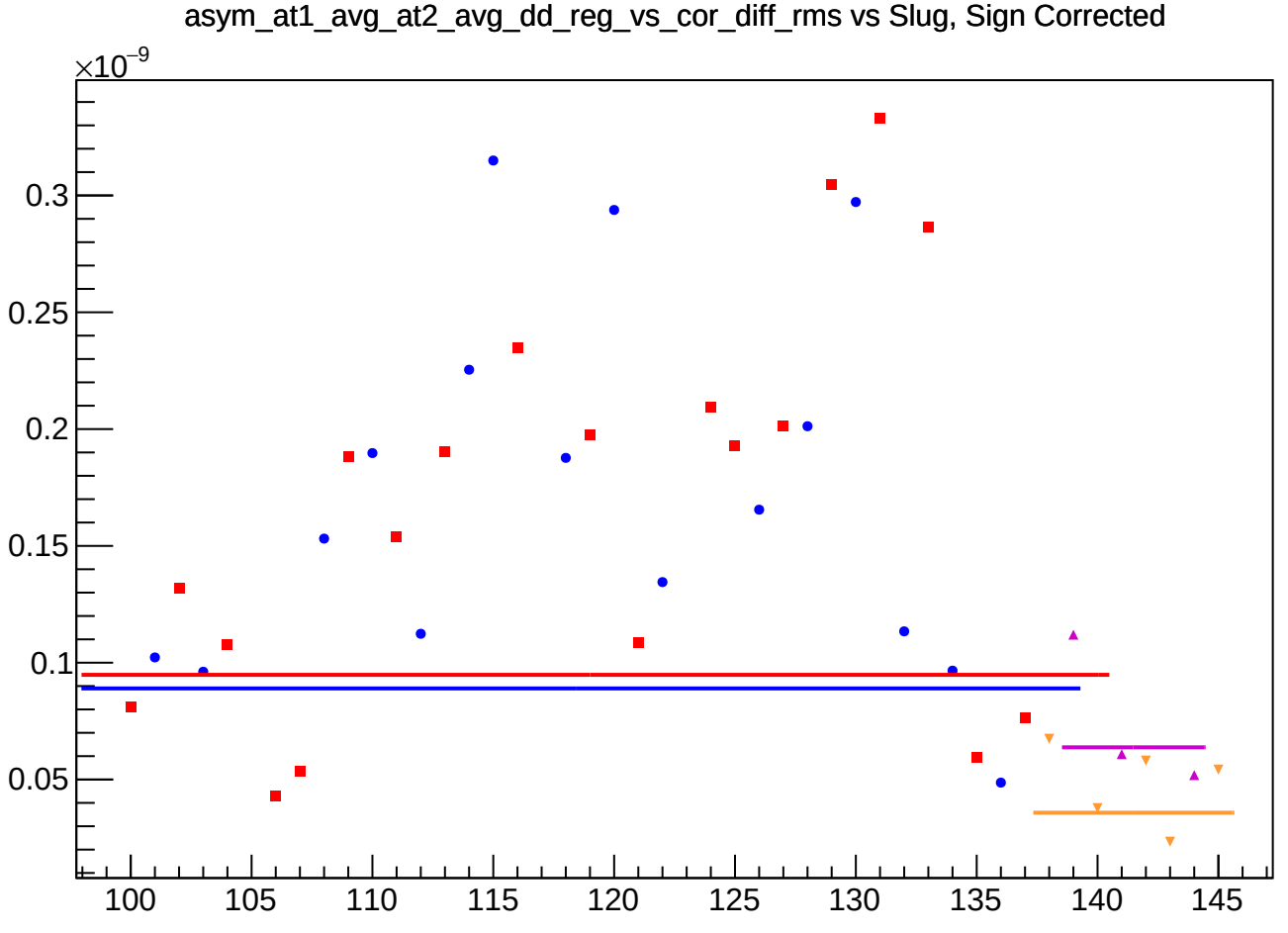
Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 3837.403+/-0.877 $\chi^2$/NDF:438647.8/18

Out: 3436.411+/-0.749 $\chi^2$/NDF:902191.7/23

All: 3605.657+/-0.570 $\chi^2$/NDF: 1461756.2/42


asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 16.6/15
Left Out: 0.000+/-0.000 χ²/NDF:6.7/4
Right Out: 0.000+/-0.000 χ²/NDF: 15.9/18
Left In: 0.000+/-0.000 χ²/NDF:0.2/2
Left: 0.000+/-0.000 χ²/NDF: 7.0/7
Right: 0.000+/-0.000 χ²/NDF: 33.7/34
In: -0.000+/-0.000 χ²/NDF:17.6/18
Out: 0.000+/-0.000 χ²/NDF:23.0/23
All: 0.000+/-0.000 χ²/NDF: 40.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:462218.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:237675.2/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 1036447.8/7

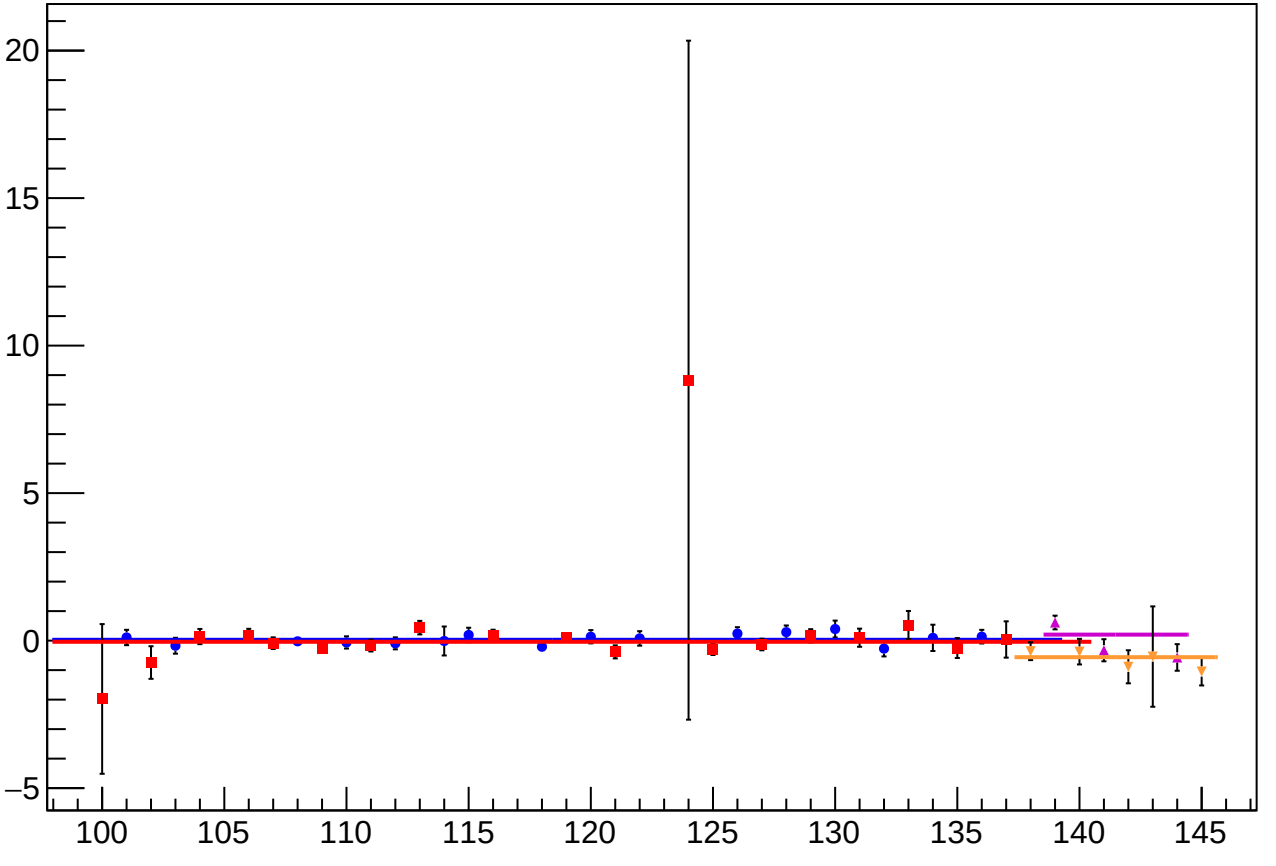
Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:1877202.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3557685.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6082868.6/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

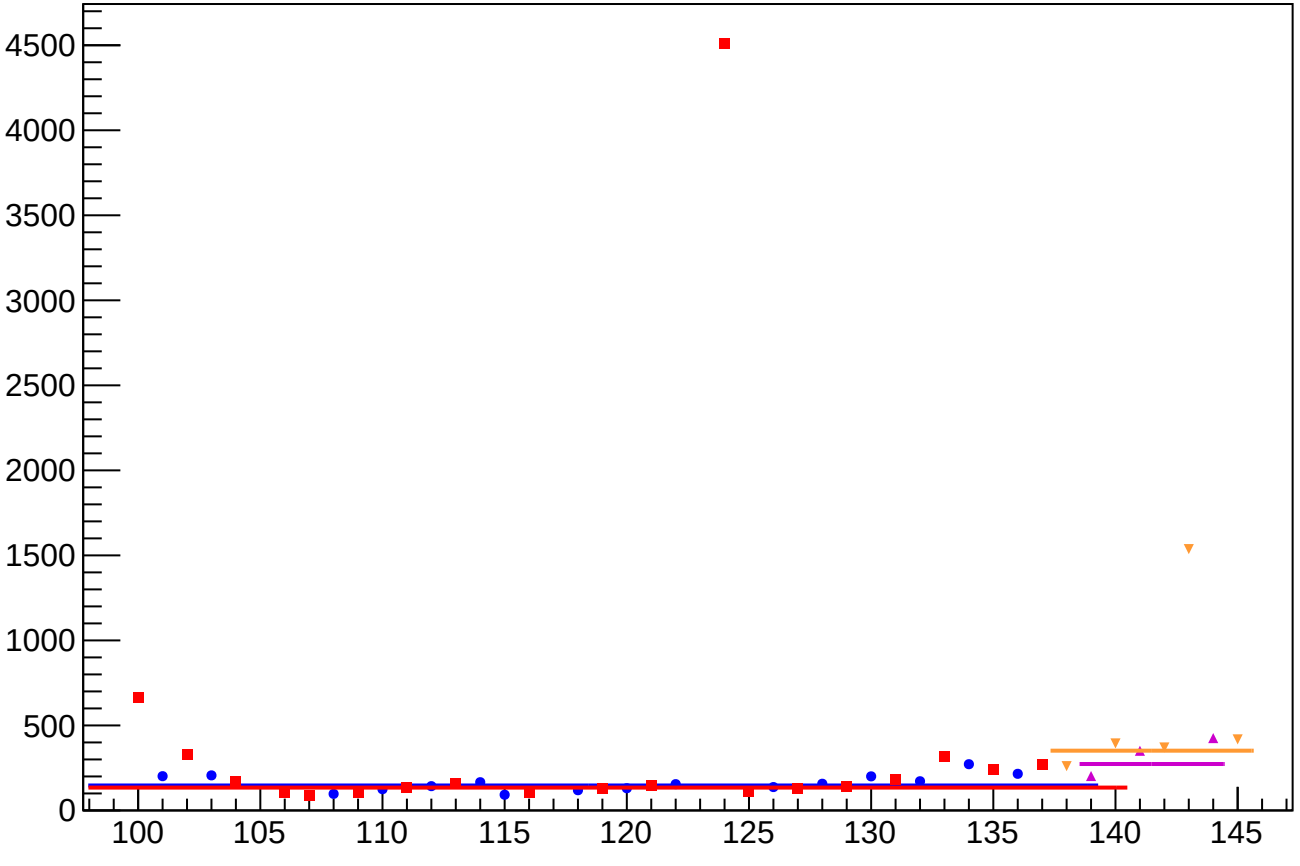
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.544+/-0.144 $\chi^2$/NDF:1213708.4/4

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 273.171+/-0.128 $\chi^2$/NDF:499529.4/2

Left: 307.888+/-0.096 $\chi^2$/NDF: 1879295.6/7

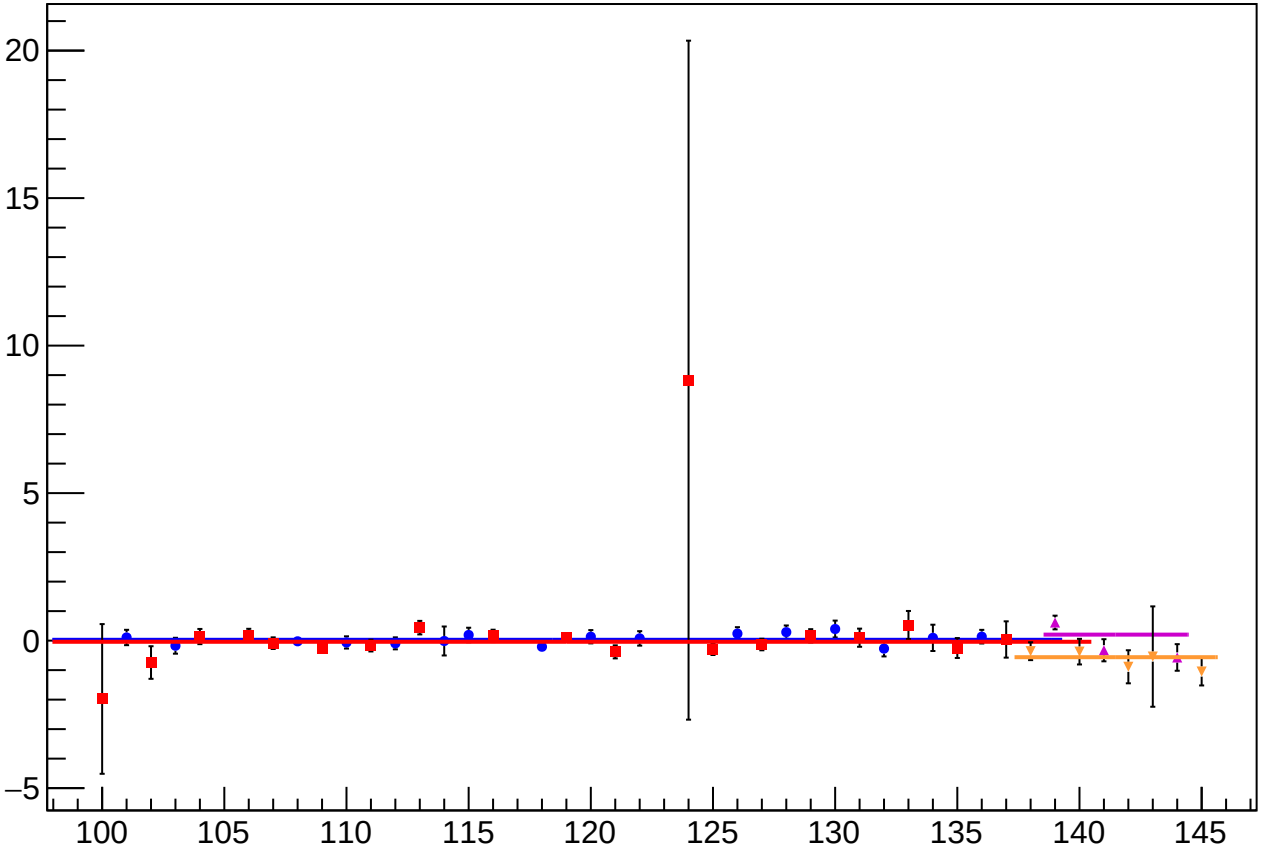
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382568.7/18

Out: 149.236+/-0.037 $\chi^2$/NDF:4951143.7/23

All: 153.680+/-0.027 $\chi^2$/NDF: 7363090.3/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

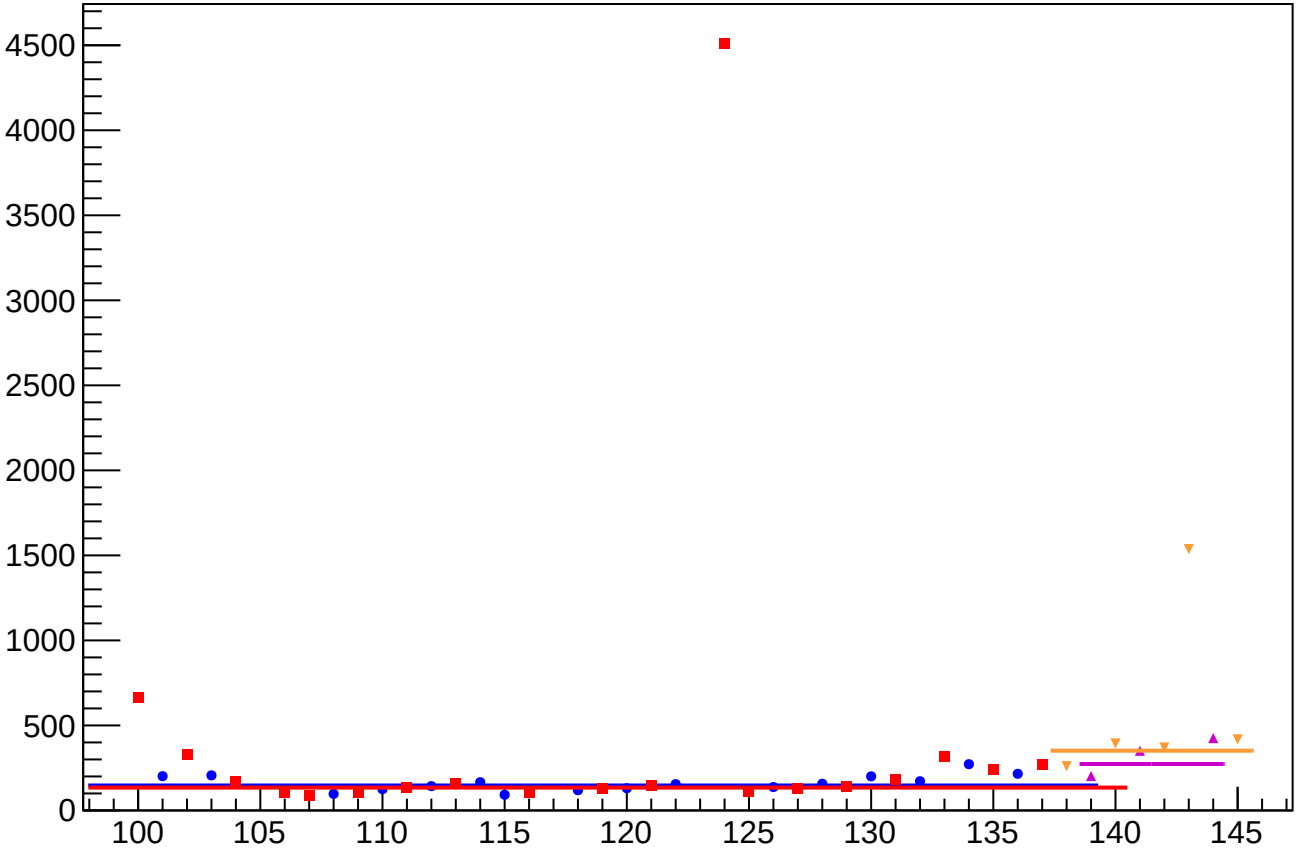
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.544+/-0.144 $\chi^2$/NDF:1213708.4/4

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 273.171+/-0.128 $\chi^2$/NDF:499529.4/2

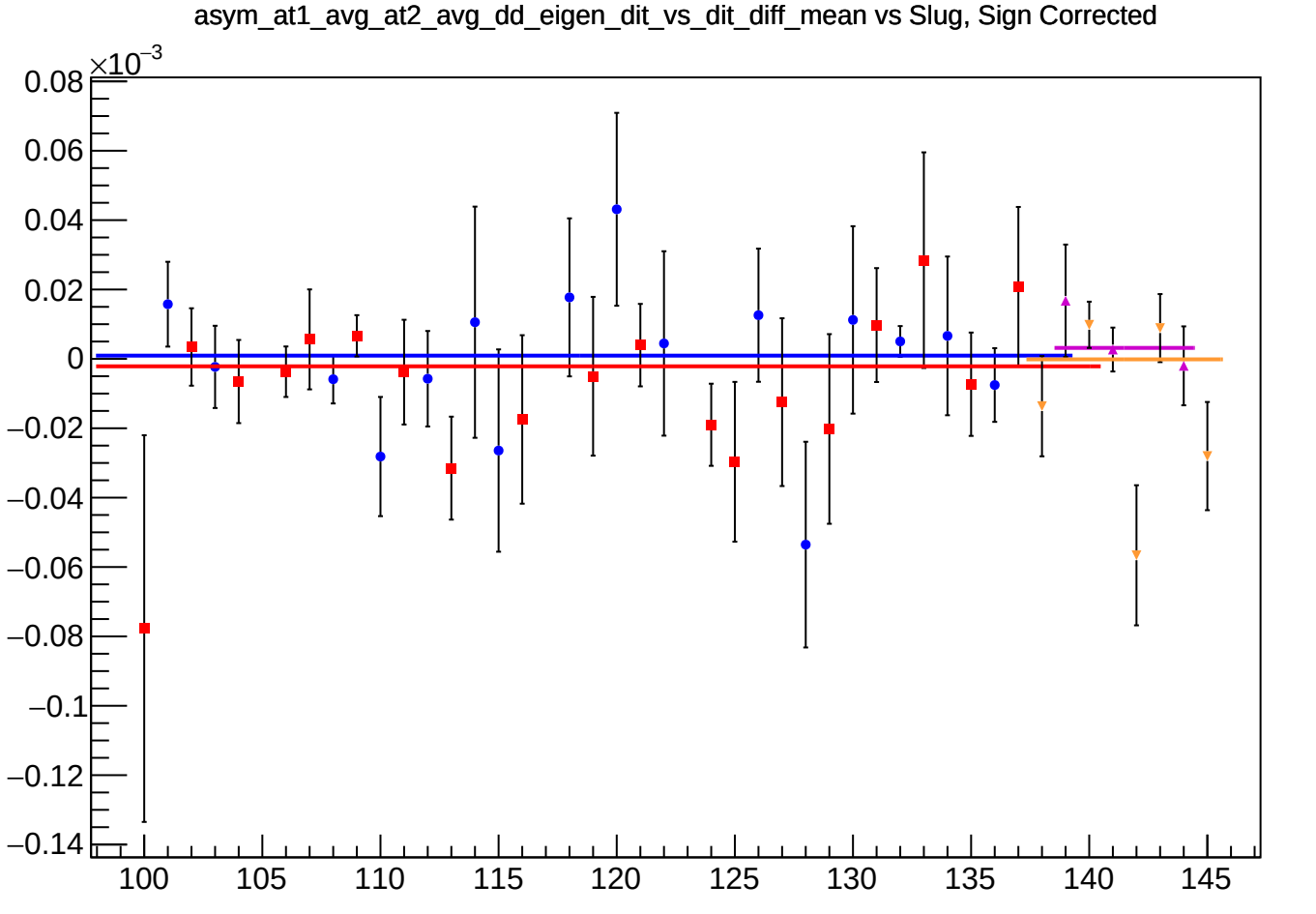
Left: 307.888+/-0.096 $\chi^2$/NDF: 1879295.6/7

Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382568.7/18

Out: 149.236+/-0.037 $\chi^2$/NDF:4951143.7/23

All: 153.680+/-0.027 $\chi^2$/NDF: 7363090.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/2

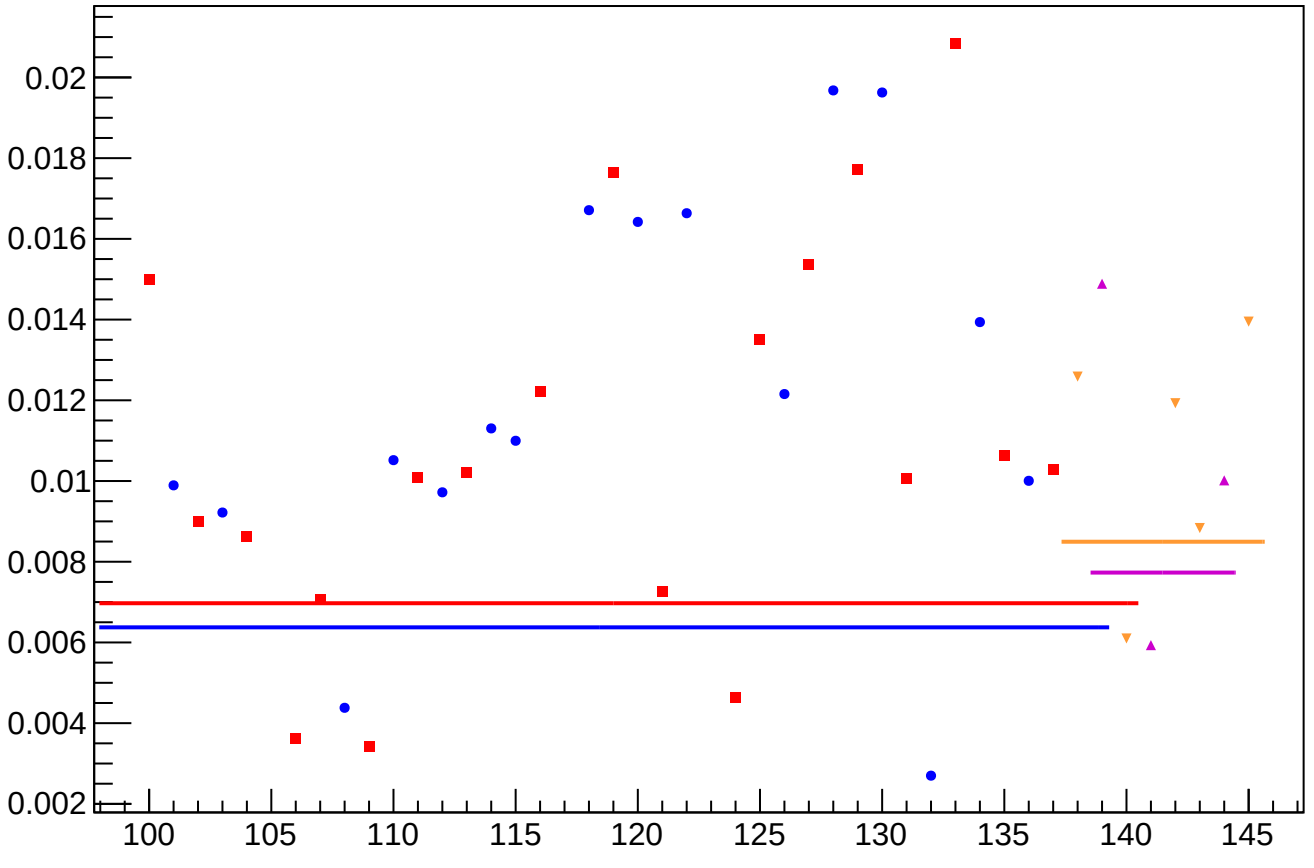
Left: 0.000+/-0.000 $\chi^2$/NDF: 16.1/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:31.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.8/42




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:723659.6/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:632815.0/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 1379863.4/7

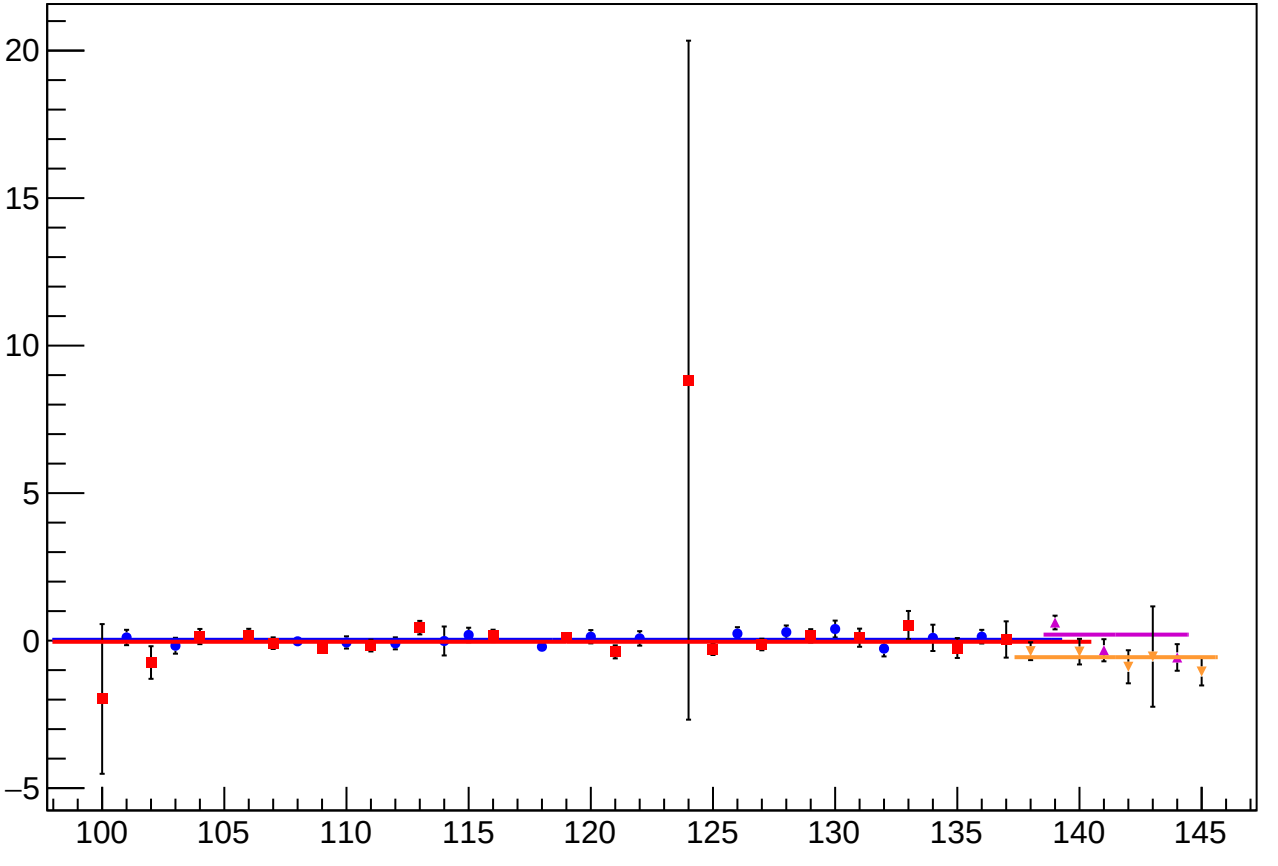
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.007+/-0.000 $\chi^2$/NDF:5375064.1/18

Out: 0.007+/-0.000 $\chi^2$/NDF:4280195.8/23

All: 0.007+/-0.000 $\chi^2$/NDF: 9732991.6/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

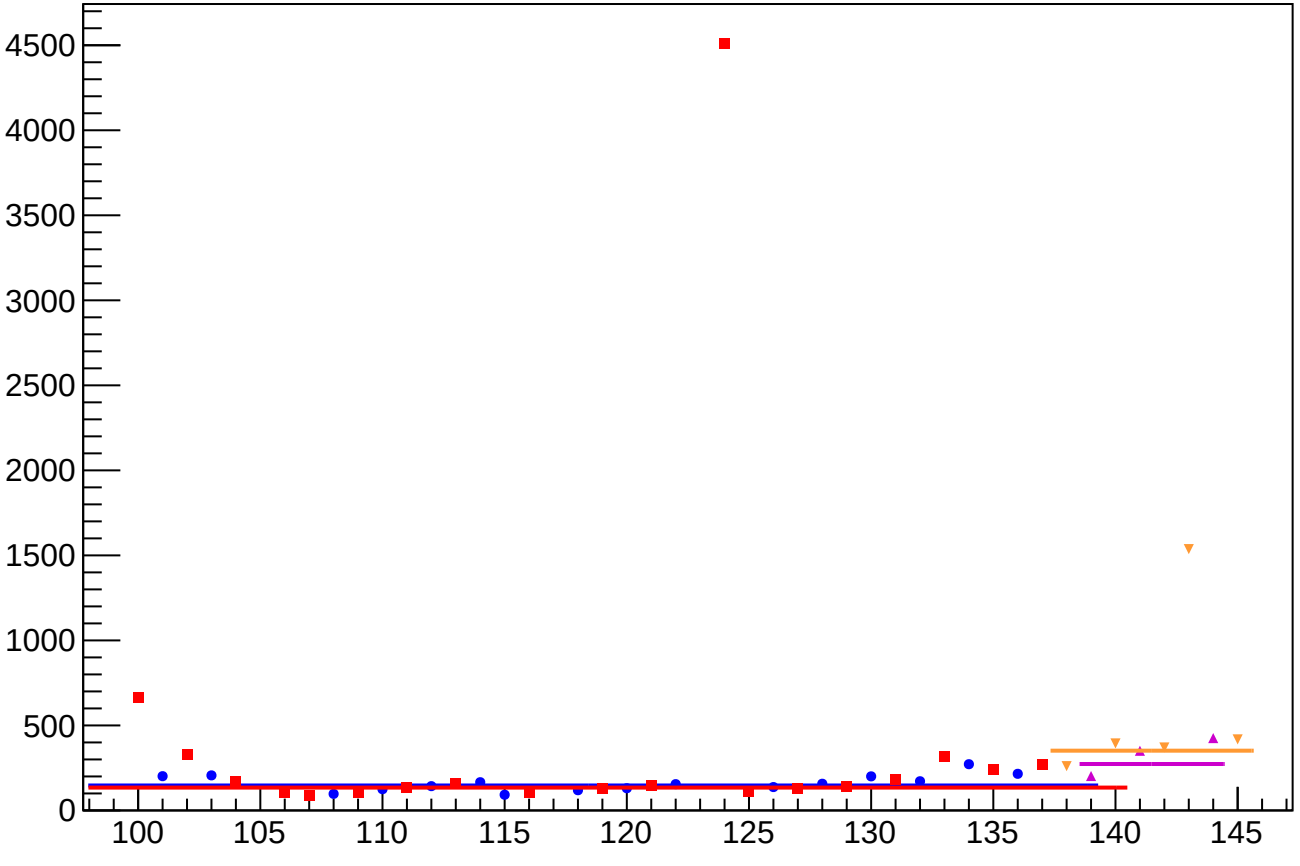
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.549+/-0.144 $\chi^2$/NDF:1213701.1/4

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 273.176+/-0.128 $\chi^2$/NDF:499512.0/2

Left: 307.893+/-0.096 $\chi^2$/NDF: 1879265.7/7

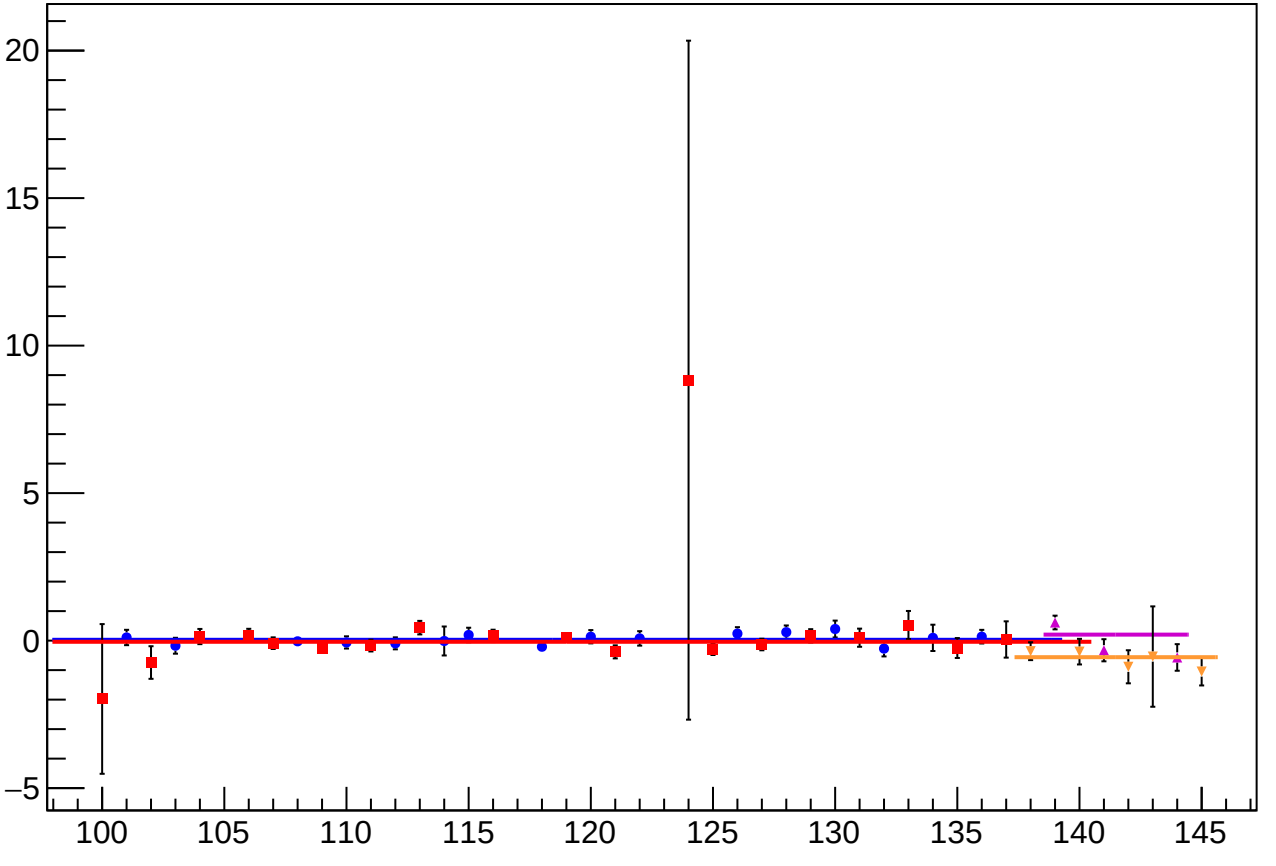
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382536.0/18

Out: 149.238+/-0.037 $\chi^2$/NDF:4951078.9/23

All: 153.681+/-0.027 $\chi^2$/NDF: 7362984.1/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

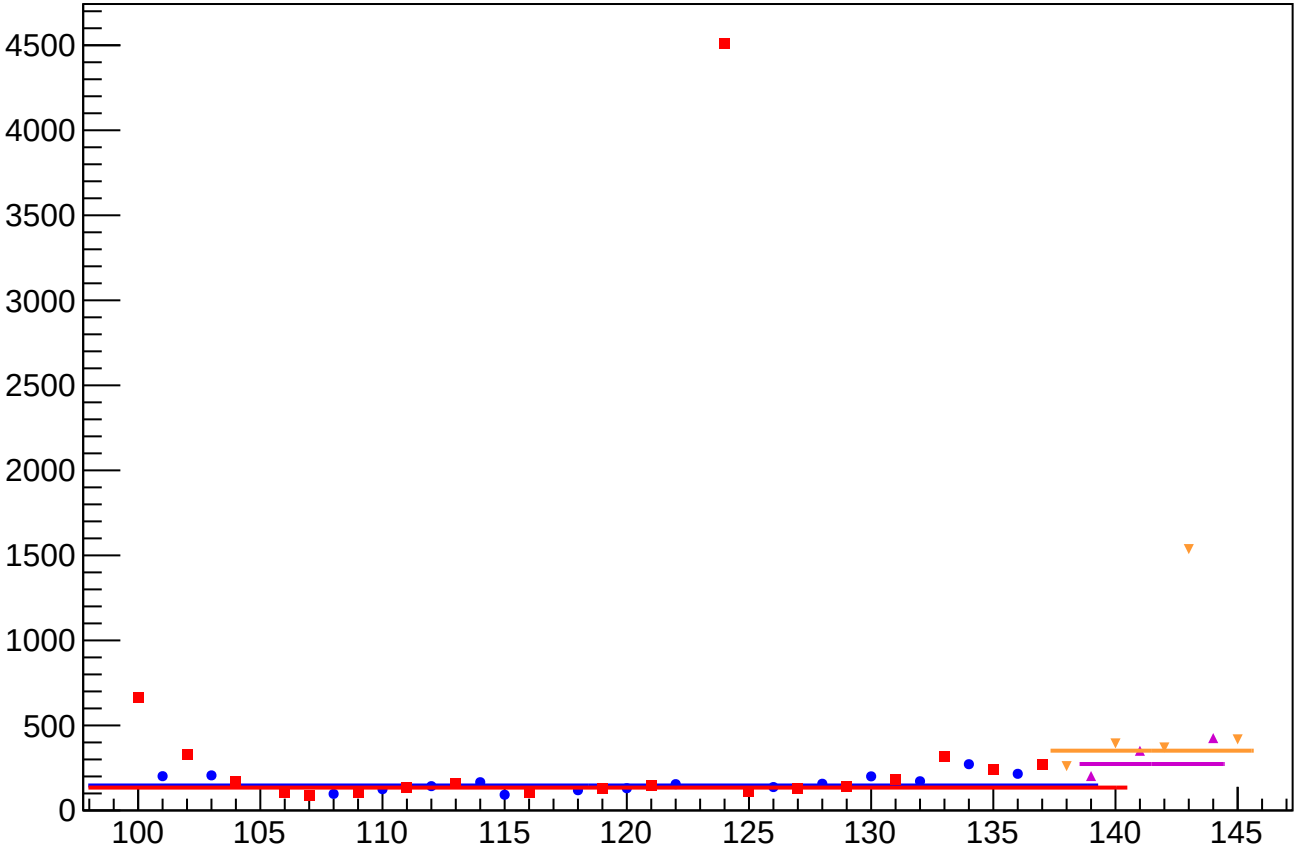
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.549+/-0.144 $\chi^2$/NDF:1213701.1/4

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 273.176+/-0.128 $\chi^2$/NDF:499512.0/2

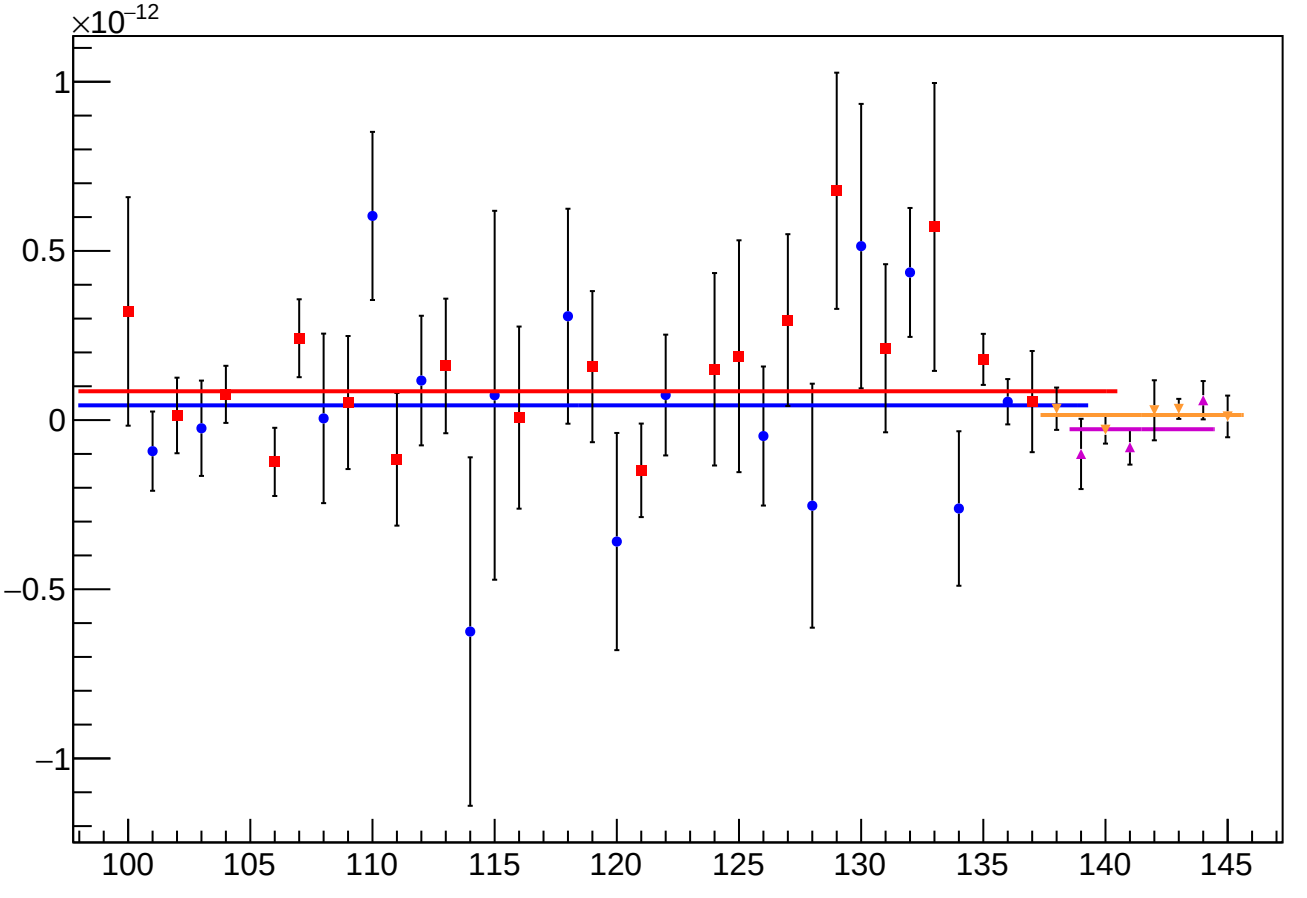
Left: 307.893+/-0.096 $\chi^2$/NDF: 1879265.7/7

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382536.0/18

Out: 149.238+/-0.037 $\chi^2$/NDF:4951078.9/23

All: 153.681+/-0.027 $\chi^2$/NDF: 7362984.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.8/2

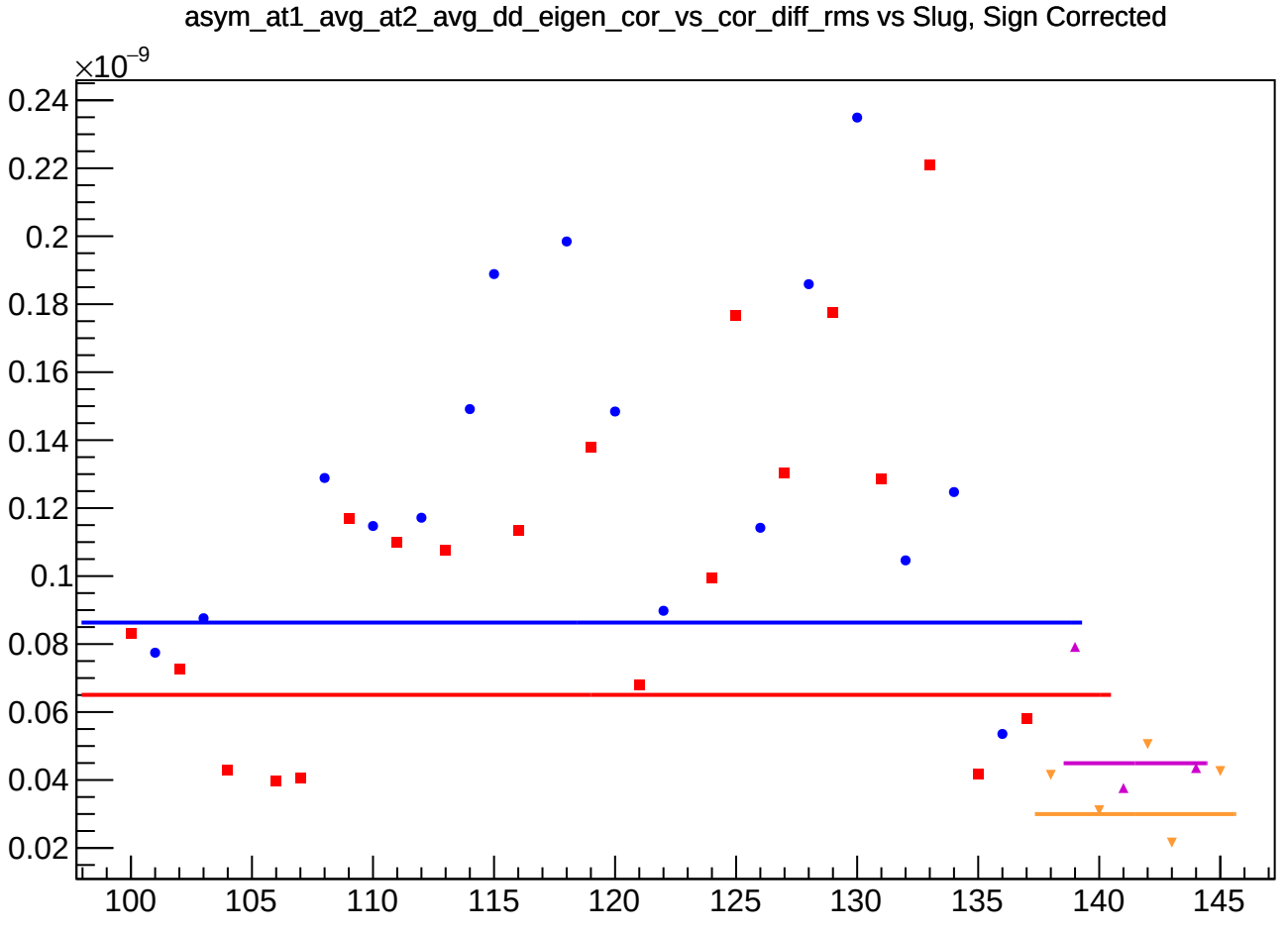
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 48.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1565662.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:422011.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2158861.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:258662.8/2

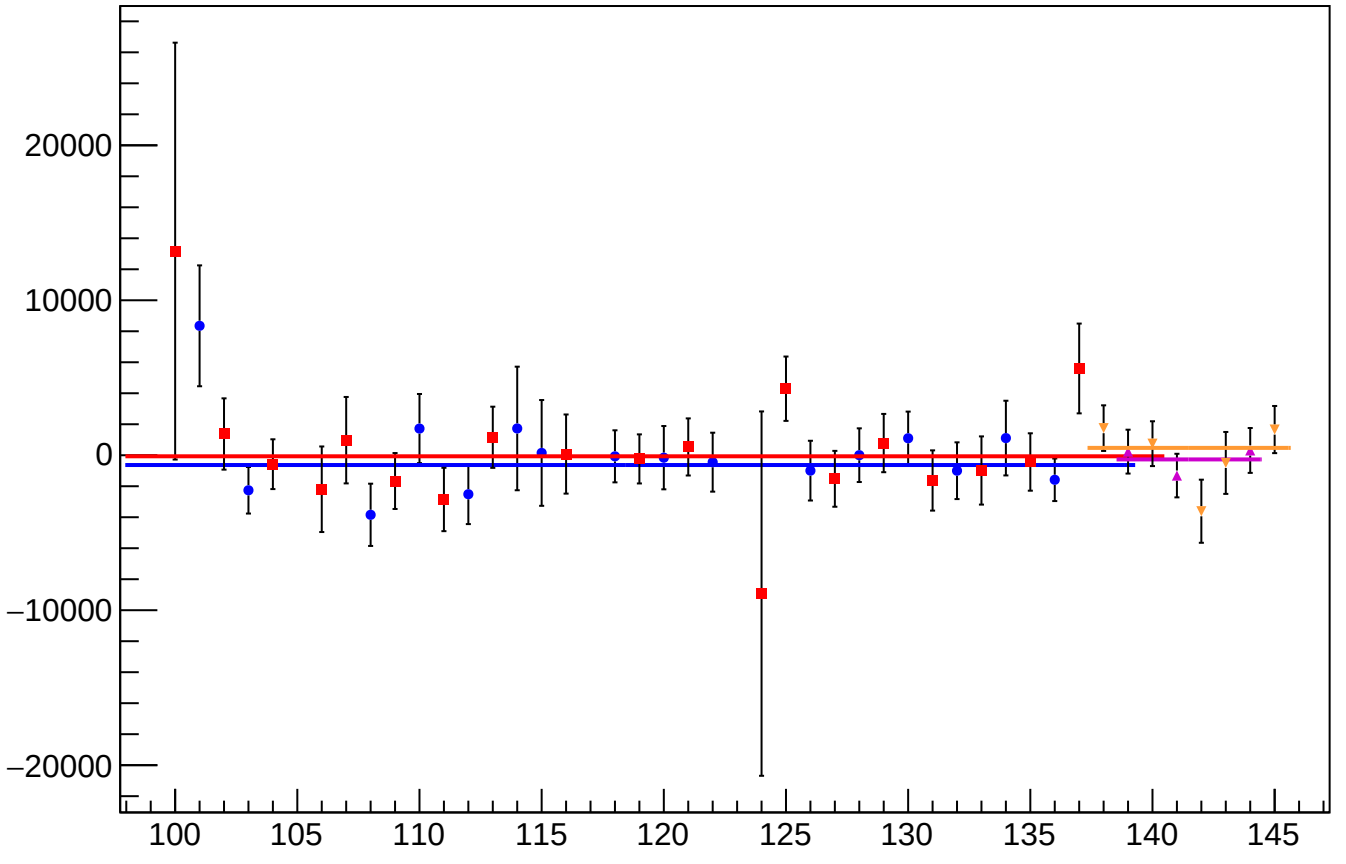
Left: 0.000+/-0.000 $\chi^2$/NDF: 943572.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4026528.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2927187.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4126249.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8029172.8/42




Right In: -631.041+/-488.663 $\chi^2$/NDF: 13.9/15

Left Out: 474.644+/-732.595 $\chi^2$/NDF:5.7/4

Right Out: -67.642+/-487.761 $\chi^2$/NDF: 15.9/18

Left In: -269.681+/-821.347 $\chi^2$/NDF:0.8/2

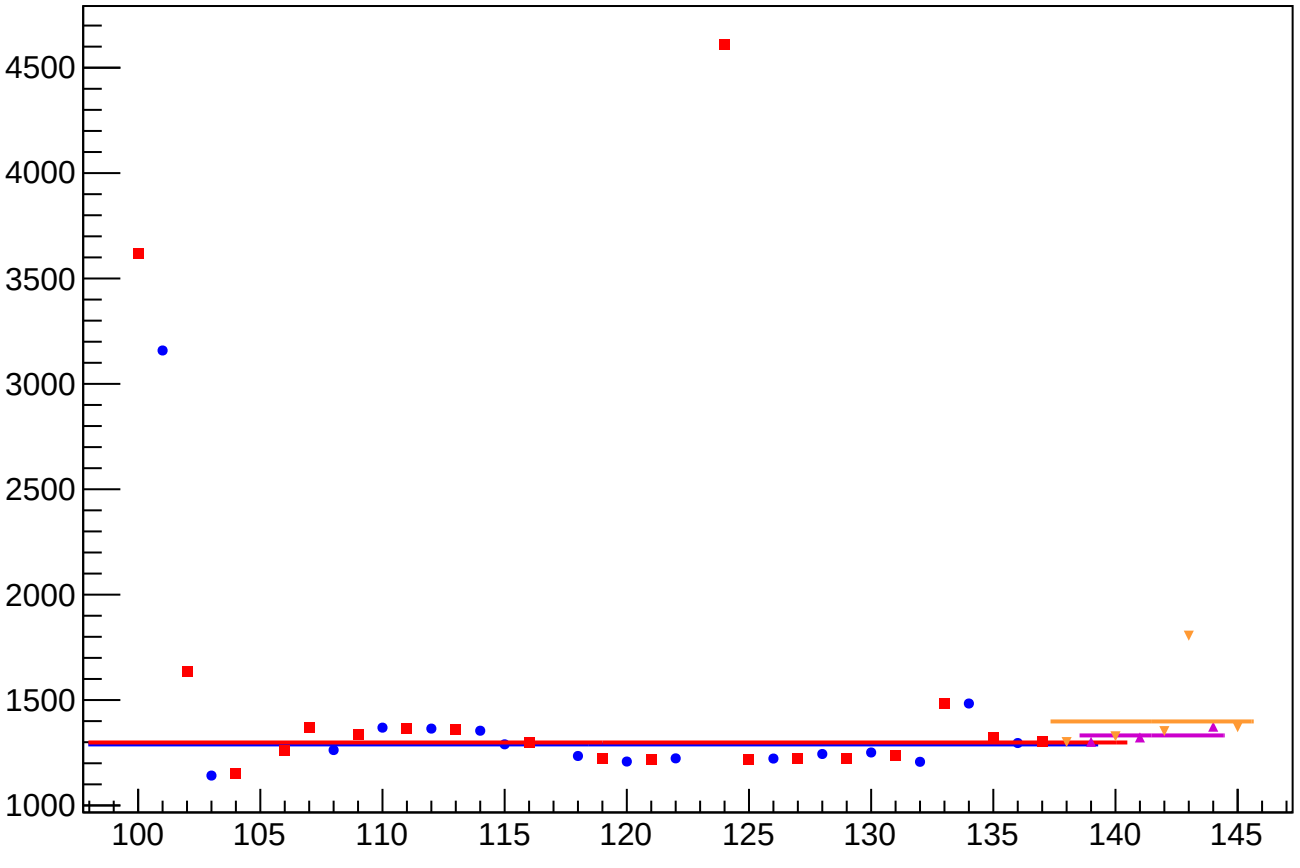
Left: 144.855+/-546.719 $\chi^2$/NDF: 6.9/7

Right: -348.821+/-345.217 $\chi^2$/NDF: 30.4/34

In: -536.571+/-419.957 $\chi^2$/NDF:14.9/18

Out: 98.914+/-406.004 $\chi^2$/NDF:21.9/23

All: -208.096+/-291.896 $\chi^2$/NDF: 38.0/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514675.0/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1298.656+/-0.344 $\chi^2$/NDF: 319374.9/18

Left In: 1332.130+/-0.581 $\chi^2$/NDF:2652.6/2

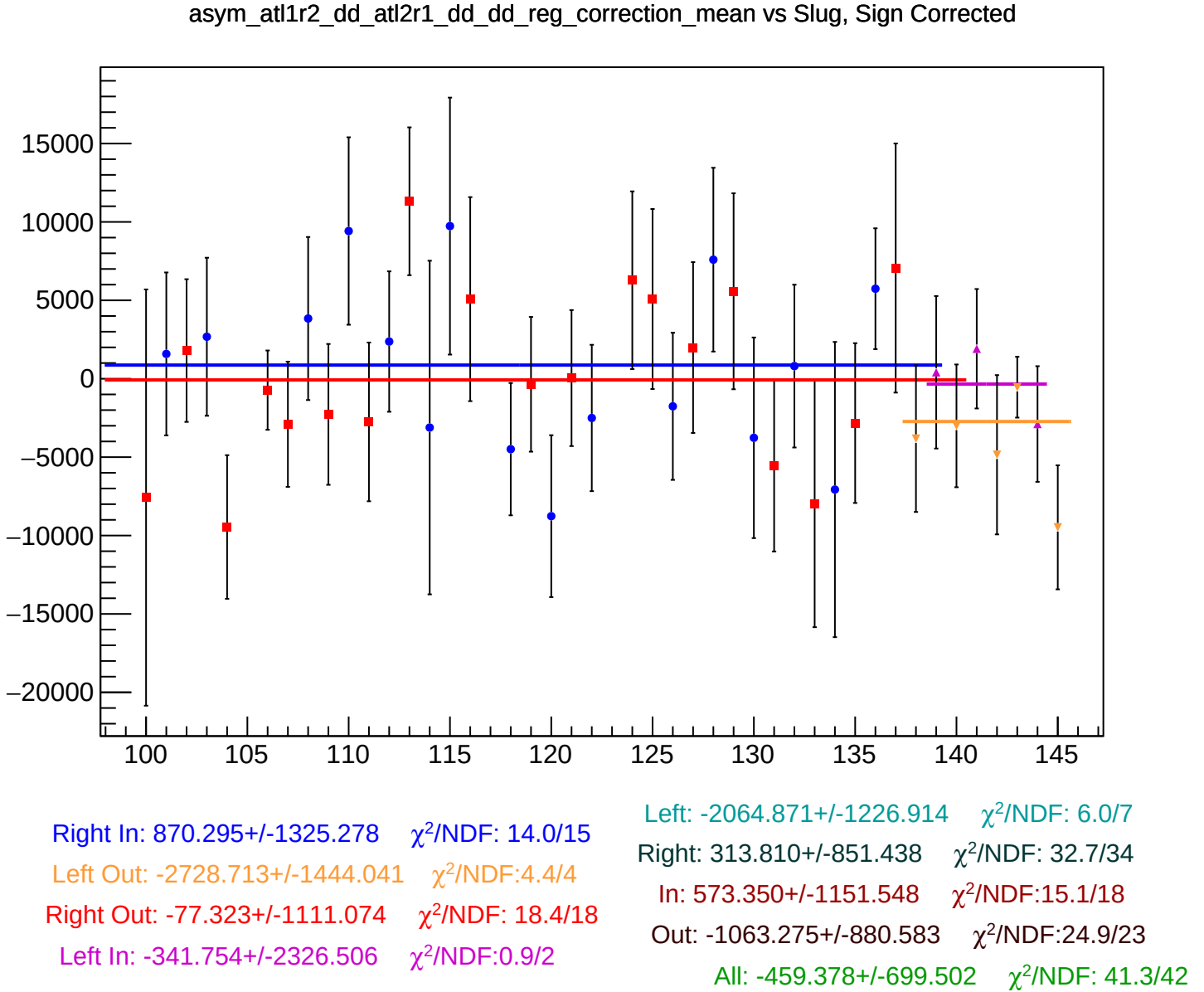
Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

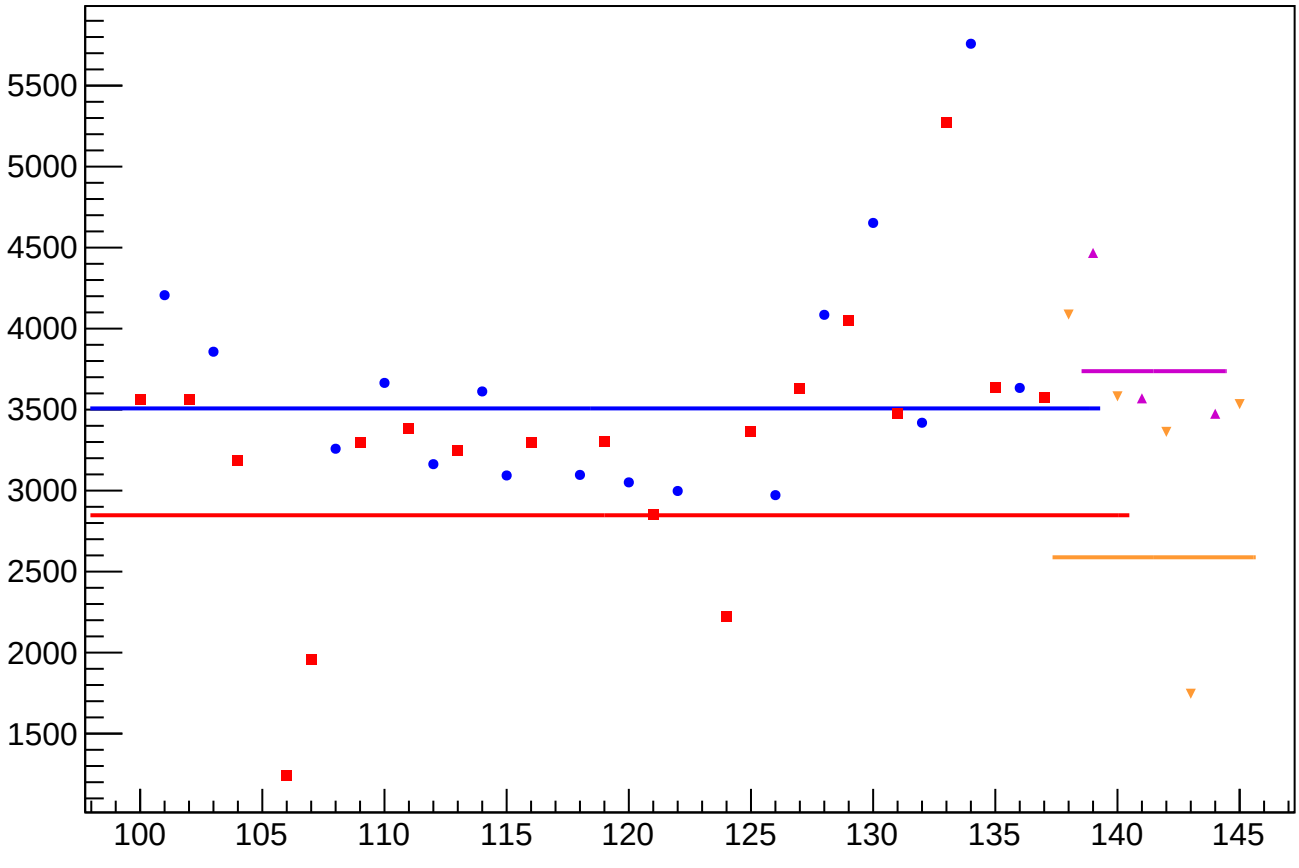
Right: 1294.081+/-0.244 $\chi^2$/NDF: 834405.1/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521313.3/18

Out: 1329.195+/-0.287 $\chi^2$/NDF:443340.7/23

All: 1315.416+/-0.206 $\chi^2$/NDF: 969448.6/42


asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: 870.295+/-1325.278 χ²/NDF: 14.0/15
Left Out: -2728.713+/-1444.041 χ²/NDF:4.4/4
Right Out: -77.323+/-1111.074 χ²/NDF: 18.4/18
Left In: -341.754+/-2326.506 χ²/NDF:0.9/2
Left: -2064.871+/-1226.914 χ²/NDF: 6.0/7
Right: 313.810+/-851.438 χ²/NDF: 32.7/34
In: 573.350+/-1151.548 χ²/NDF:15.1/18
Out: -1063.275+/-880.583 χ²/NDF:24.9/23
All: -459.378+/-699.502 χ²/NDF: 41.3/42




Right In: 3507.397+/-0.937 $\chi^2$/NDF: 353979.1/15

Left Out: 2588.366+/-1.021 $\chi^2$/NDF:872391.5/4

Right Out: 2847.833+/-0.786 $\chi^2$/NDF: 1499373.6/18

Left In: 3737.276+/-1.645 $\chi^2$/NDF:59109.6/2

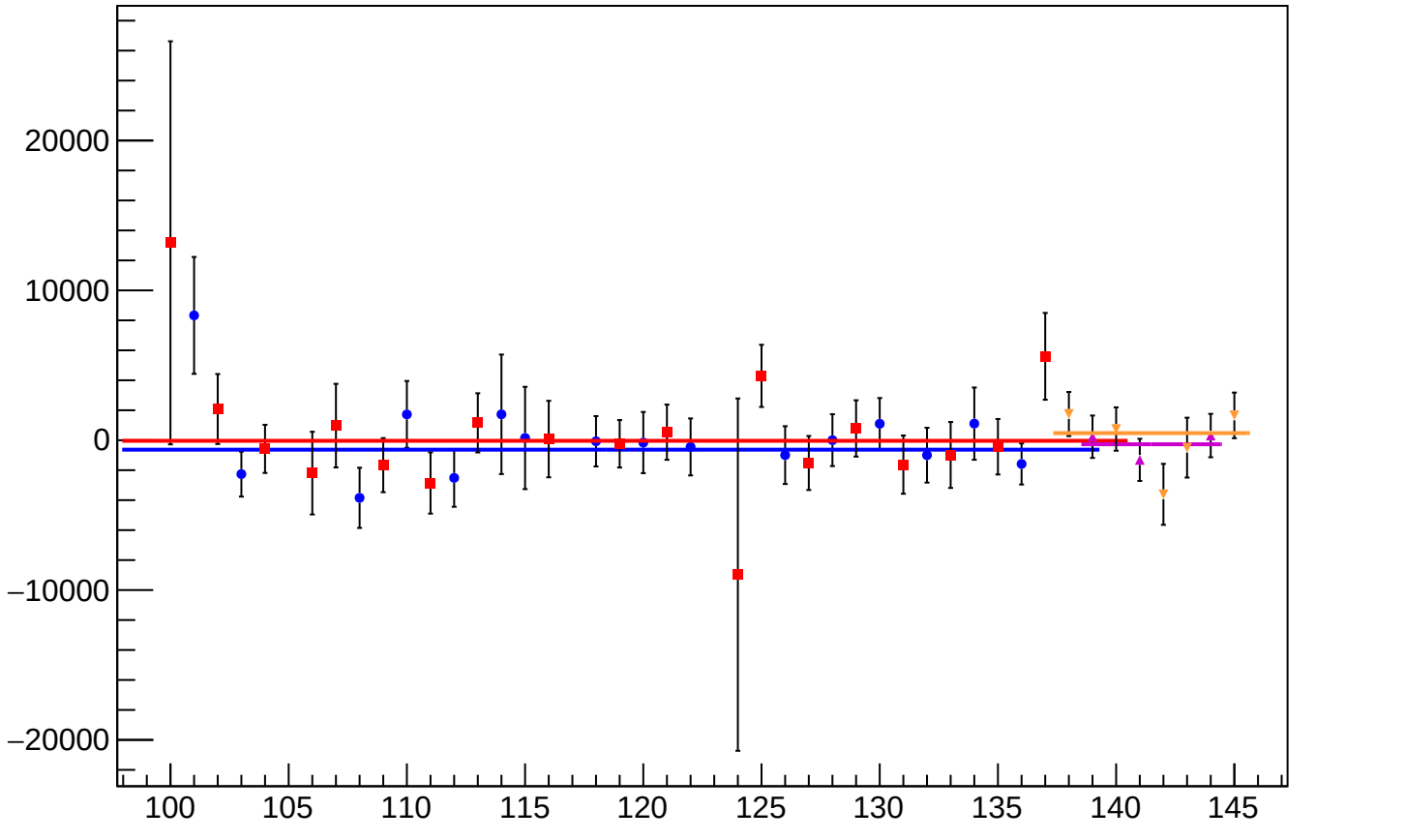
Left: 2907.892+/-0.868 $\chi^2$/NDF: 1283599.4/7

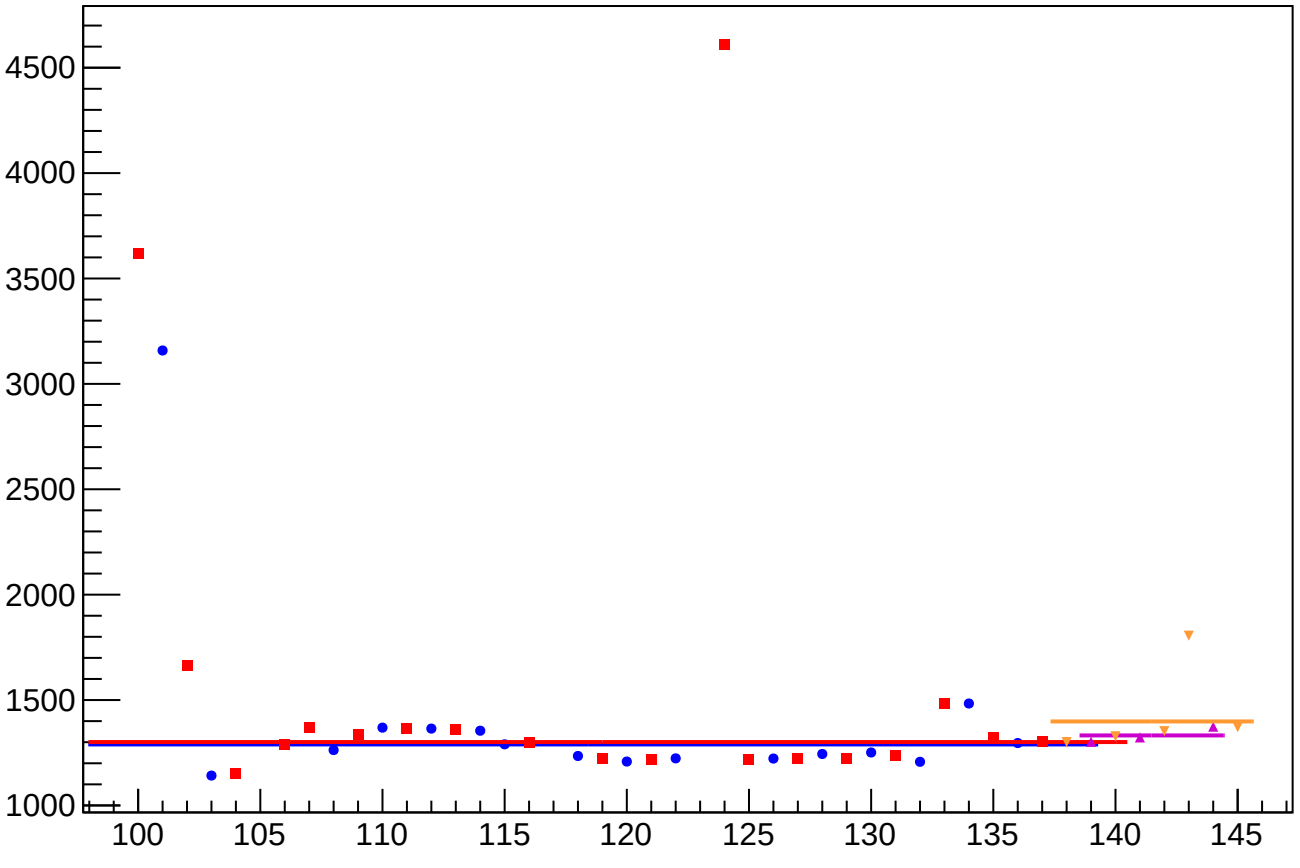
Right: 3120.071+/-0.602 $\chi^2$/NDF: 2144256.9/34

In: 3563.716+/-0.814 $\chi^2$/NDF:427831.3/18

Out: 2751.347+/-0.623 $\chi^2$/NDF:2412324.4/23

All: 3051.102+/-0.495 $\chi^2$/NDF: 3468228.2/42


cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -631.427+/-488.663 χ²/NDF: 13.9/15
Left Out: 474.679+/-732.595 χ²/NDF:5.7/4
Right Out: -38.623+/-488.084 χ²/NDF: 16.3/18
Left In: -269.641+/-821.347 χ²/NDF:0.8/2
Left: 144.892+/-546.719 χ²/NDF: 6.9/7
Right: -334.674+/-345.332 χ²/NDF: 30.9/34
In: -536.845+/-419.957 χ²/NDF:14.9/18
Out: 119.176+/-406.191 χ²/NDF:22.3/23
All: -197.906+/-291.966 χ²/NDF: 38.4/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1332.131+/-0.581 $\chi^2$/NDF:2652.6/2

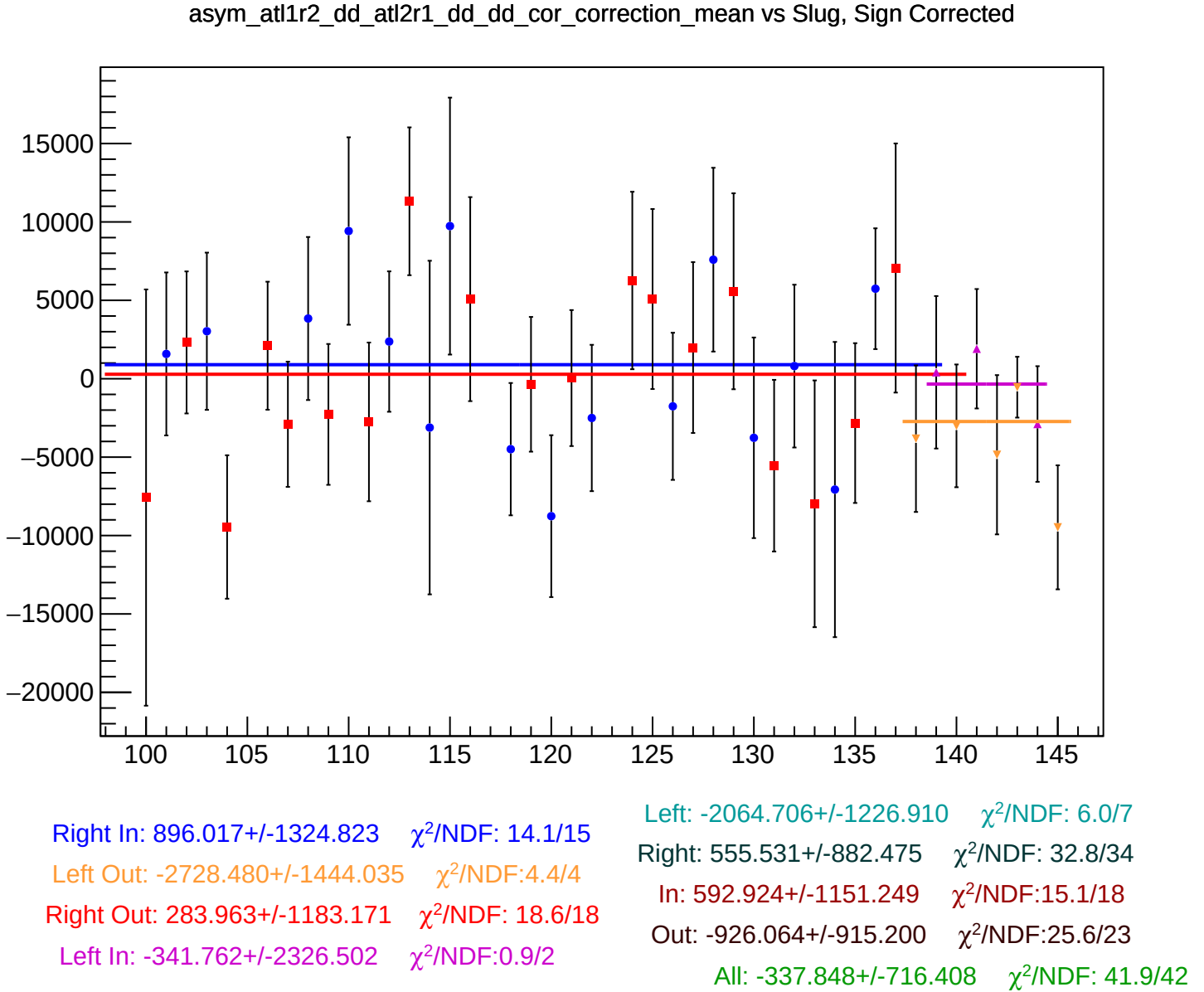
Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

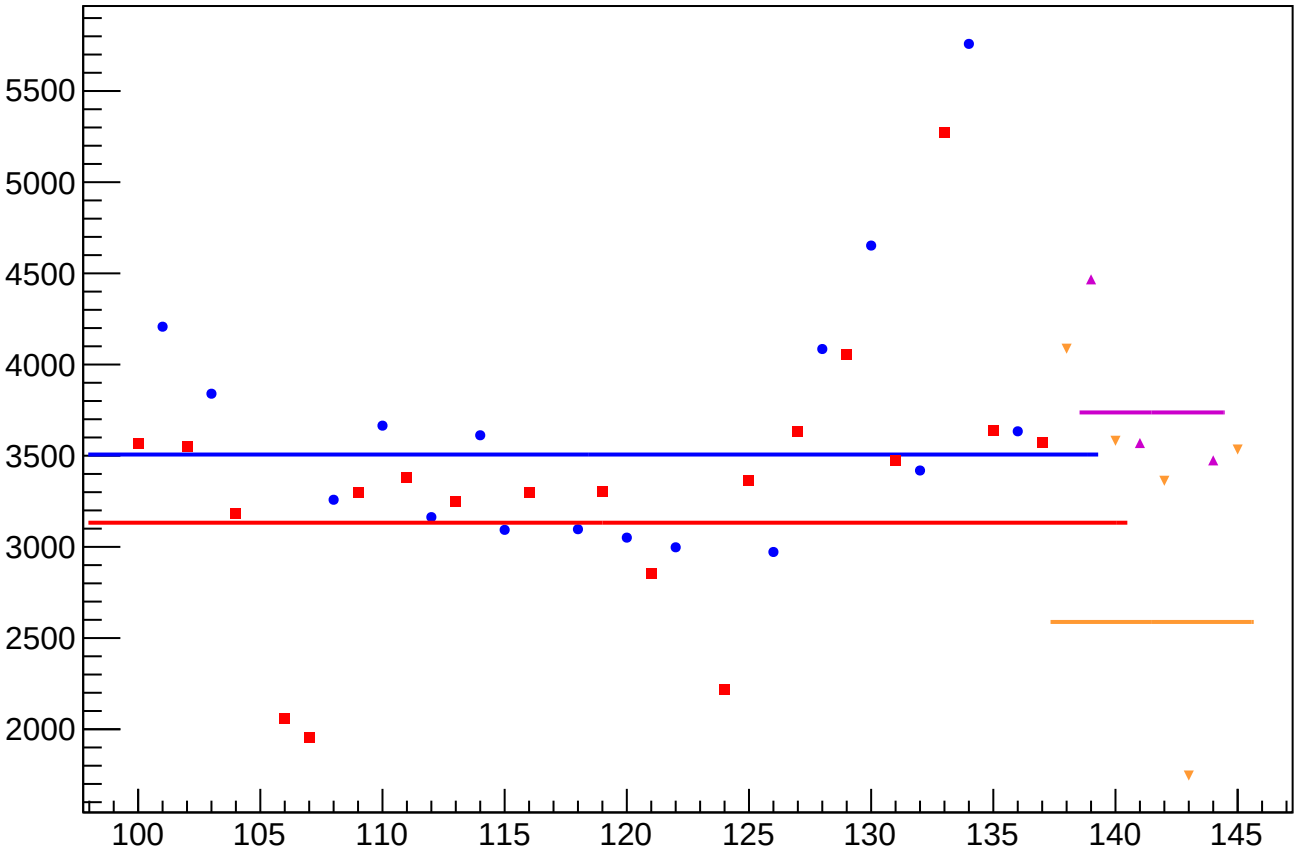
Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521314.8/18

Out: 1330.662+/-0.287 $\chi^2$/NDF:448815.4/23

All: 1316.161+/-0.206 $\chi^2$/NDF: 975424.8/42


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -2728.480+/-1444.035 χ²/NDF:4.4/4
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -341.762+/-2326.502 χ²/NDF:0.9/2
Left: -2064.706+/-1226.910 χ²/NDF: 6.0/7
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 592.924+/-1151.249 χ²/NDF:15.1/18
Out: -926.064+/-915.200 χ²/NDF:25.6/23
All: -337.848+/-716.408 χ²/NDF: 41.9/42




Right In: 3506.484+/-0.937 $\chi^2$/NDF: 353237.7/15

Left Out: 2588.353+/-1.021 $\chi^2$/NDF:872402.9/4

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3737.270+/-1.645 $\chi^2$/NDF:59108.5/2

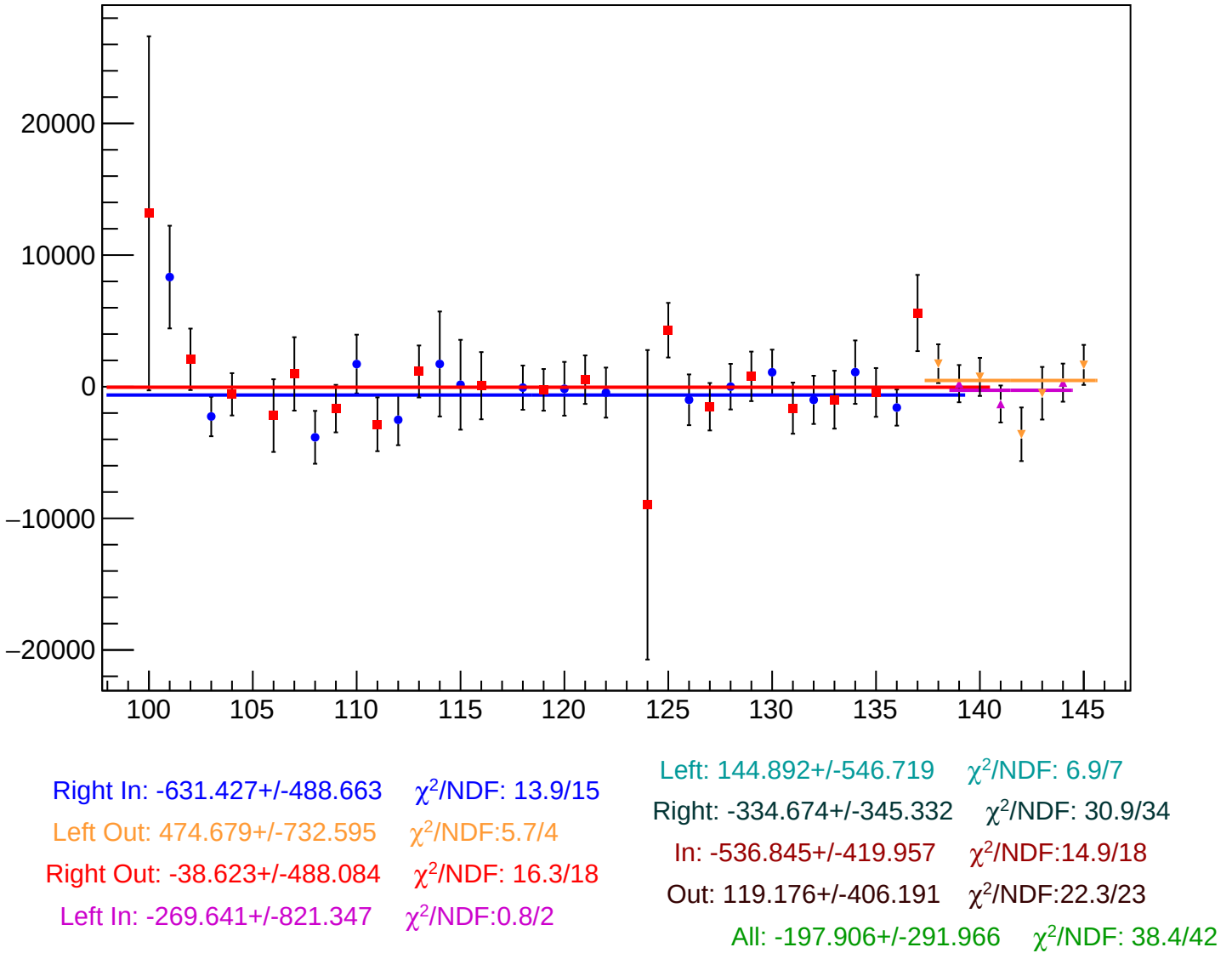
Left: 2907.880+/-0.868 $\chi^2$/NDF: 1283615.3/7

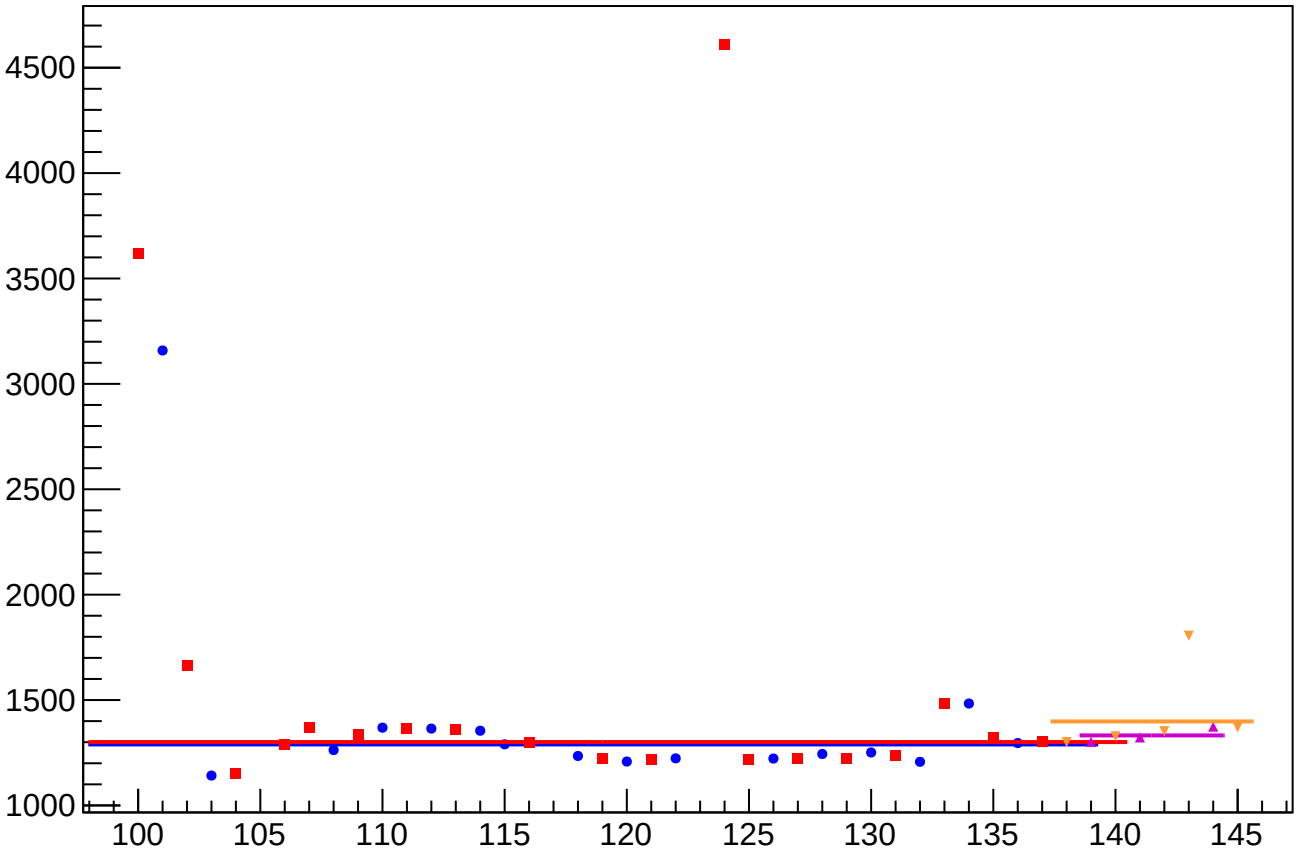
Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3562.996+/-0.814 $\chi^2$/NDF:427207.8/18

Out: 2913.981+/-0.647 $\chi^2$/NDF:1691987.4/23

All: 3165.307+/-0.507 $\chi^2$/NDF: 2508679.9/42


eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -631.427+/-488.663 χ²/NDF: 13.9/15
Left Out: 474.679+/-732.595 χ²/NDF:5.7/4
Right Out: -38.623+/-488.084 χ²/NDF: 16.3/18
Left In: -269.641+/-821.347 χ²/NDF:0.8/2
Left: 144.892+/-546.719 χ²/NDF: 6.9/7
Right: -334.674+/-345.332 χ²/NDF: 30.9/34
In: -536.845+/-419.957 χ²/NDF:14.9/18
Out: 119.176+/-406.191 χ²/NDF:22.3/23
All: -197.906+/-291.966 χ²/NDF: 38.4/42




Right In: 1289.466+/-0.346 $\chi^2$/NDF: 514676.5/15

Left Out: 1398.450+/-0.518 $\chi^2$/NDF:98210.8/4

Right Out: 1300.684+/-0.344 $\chi^2$/NDF: 325907.6/18

Left In: 1332.131+/-0.581 $\chi^2$/NDF:2652.6/2

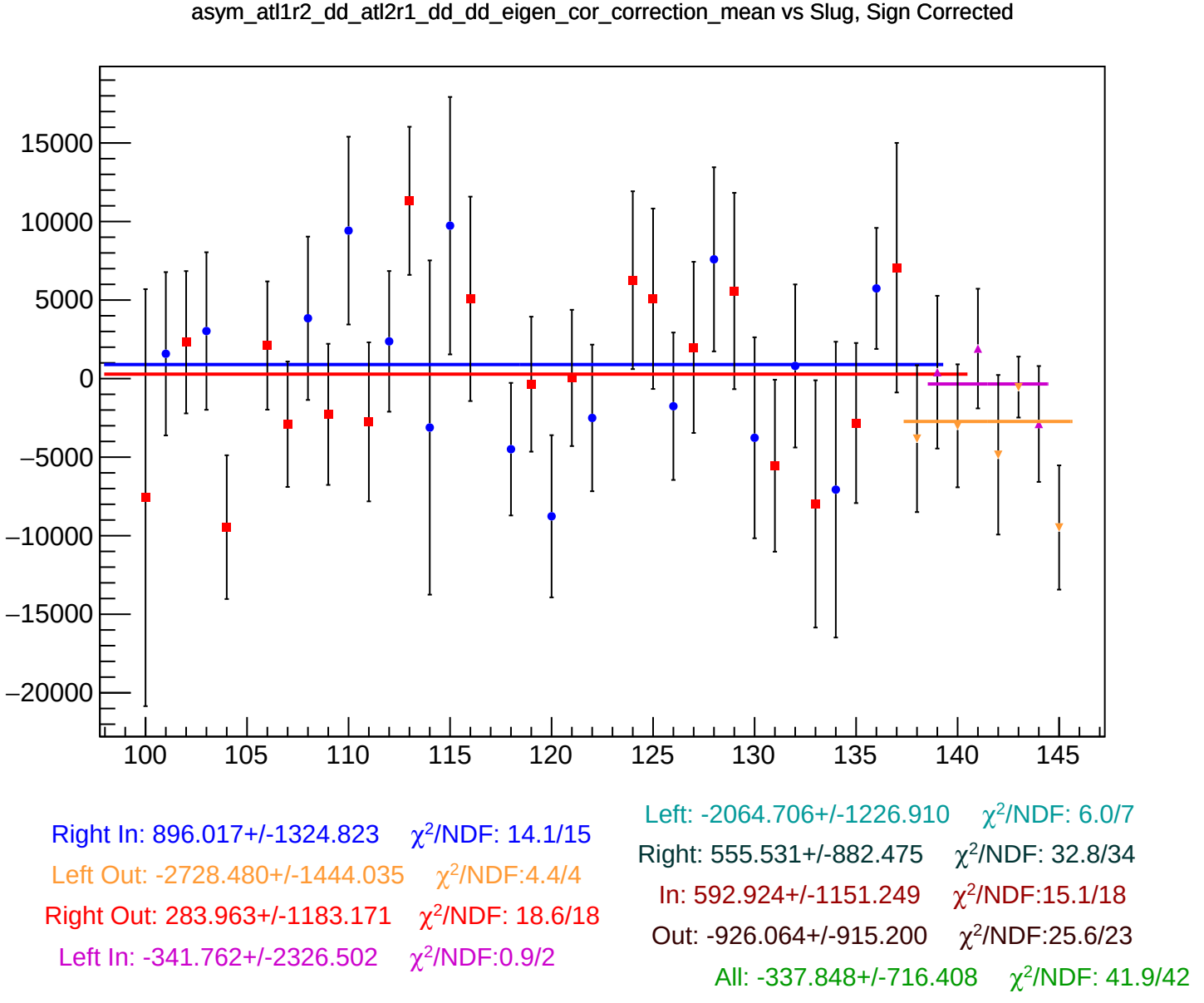
Left: 1369.066+/-0.387 $\chi^2$/NDF: 108125.5/7

Right: 1295.092+/-0.244 $\chi^2$/NDF: 841112.8/34

In: 1300.620+/-0.297 $\chi^2$/NDF:521314.8/18

Out: 1330.662+/-0.287 $\chi^2$/NDF:448815.4/23

All: 1316.161+/-0.206 $\chi^2$/NDF: 975424.8/42


asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
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−5000
−10000
−15000
−20000
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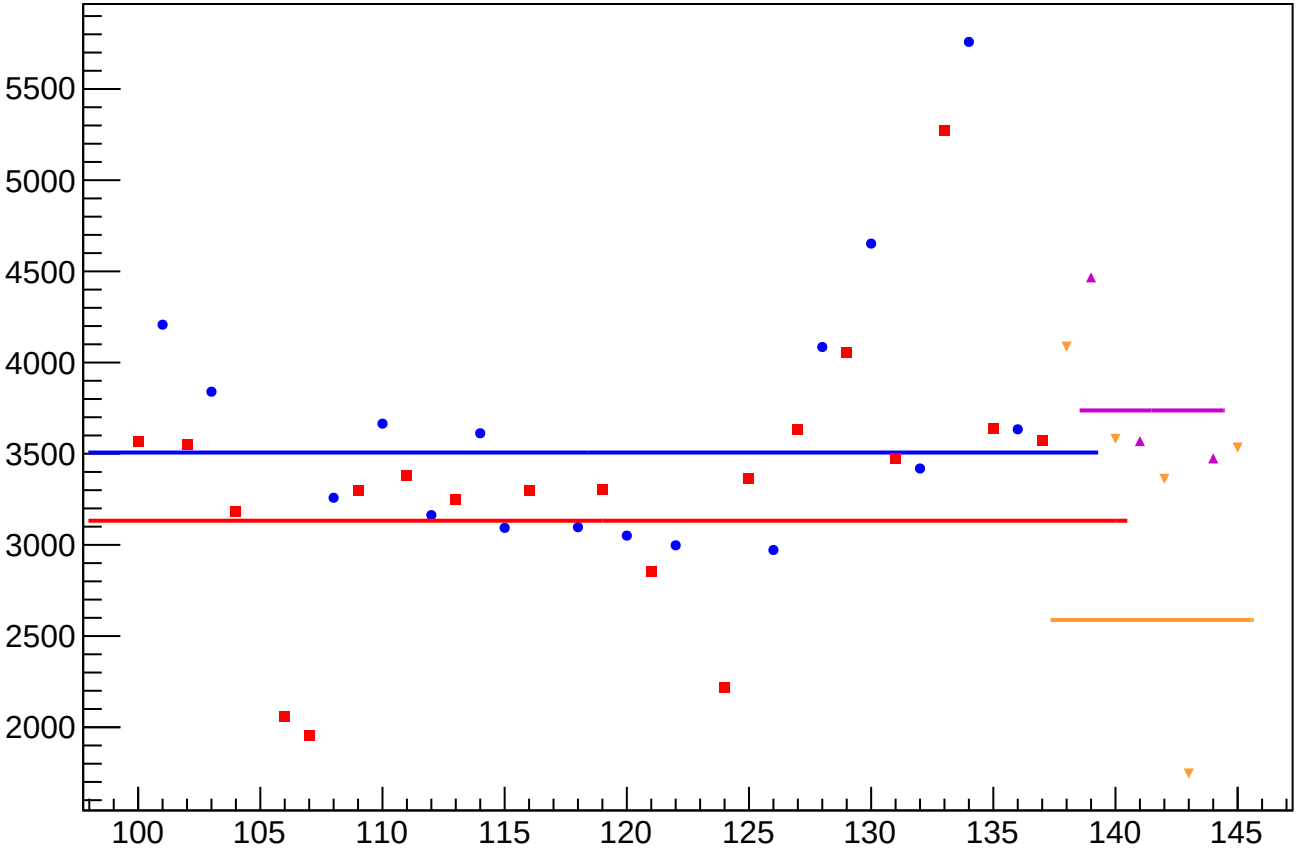
145
Right In: 896.017+/-1324.823 χ²/NDF: 14.1/15
Left Out: -2728.480+/-1444.035 χ²/NDF:4.4/4
Right Out: 283.963+/-1183.171 χ²/NDF: 18.6/18
Left In: -341.762+/-2326.502 χ²/NDF:0.9/2
Left: -2064.706+/-1226.910 χ²/NDF: 6.0/7
Right: 555.531+/-882.475 χ²/NDF: 32.8/34
In: 592.924+/-1151.249 χ²/NDF:15.1/18
Out: -926.064+/-915.200 χ²/NDF:25.6/23
All: -337.848+/-716.408 χ²/NDF: 41.9/42

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: 2588.353+/-1.021 $\chi^2$/NDF:872402.9/4

Right Out: 3132.586+/-0.837 $\chi^2$/NDF: 649611.1/18

Left In: 3737.270+/-1.645 $\chi^2$/NDF:59108.5/2

Left: 2907.880+/-0.868 $\chi^2$/NDF: 1283615.3/7

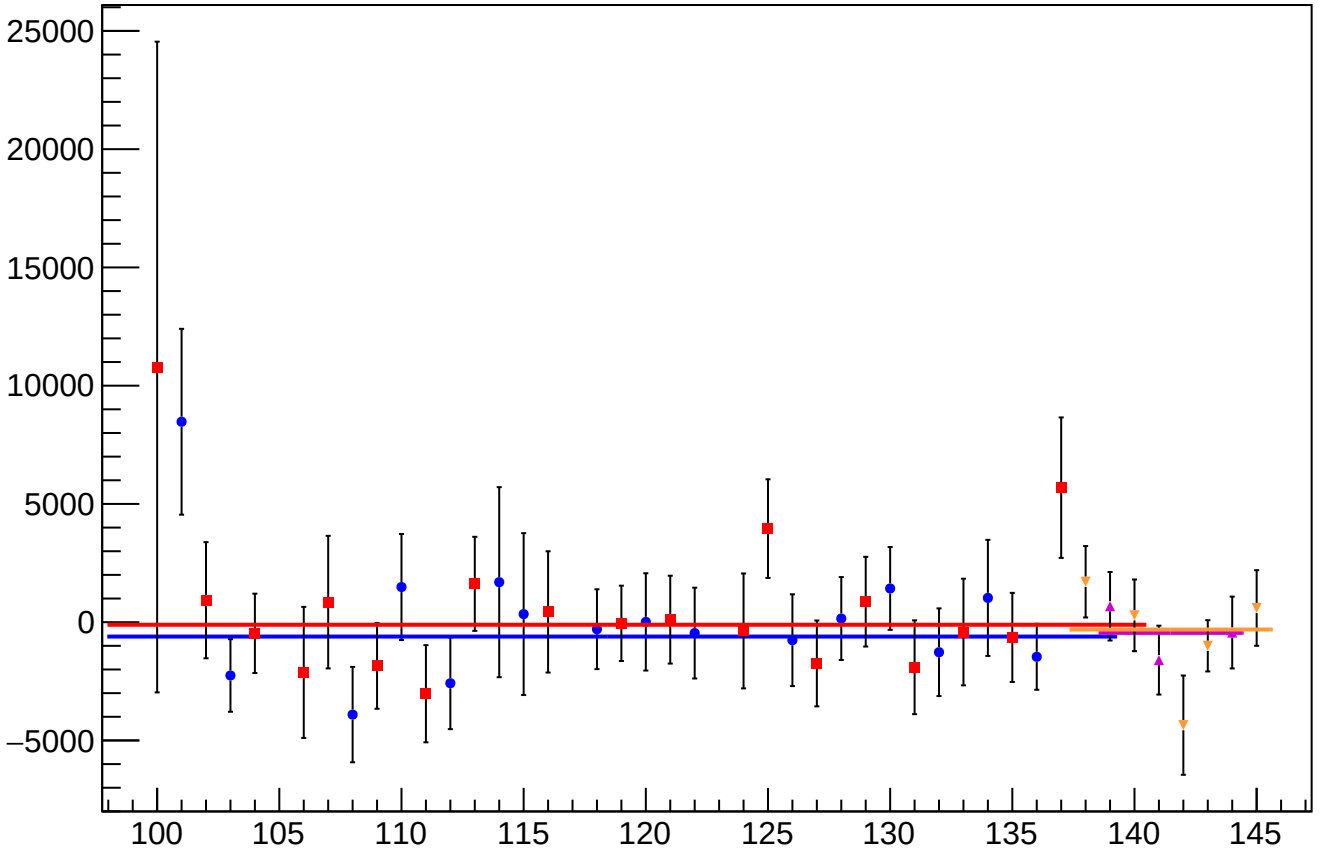
Right: 3298.485+/-0.624 $\chi^2$/NDF: 1091468.2/34

In: 3562.996+/-0.814 $\chi^2$/NDF:427207.8/18

Out: 2913.981+/-0.647 $\chi^2$/NDF:1691987.4/23

All: 3165.307+/-0.507 $\chi^2$/NDF: 2508679.9/42

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs Slug, Sign Corrected




Right In: -607.831+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: -310.693+/-653.179 $\chi^2$/NDF:6.4/4

Right Out: -108.614+/-485.552 $\chi^2$/NDF: 14.9/18

Left In: -451.534+/-850.702 $\chi^2$/NDF:1.2/2

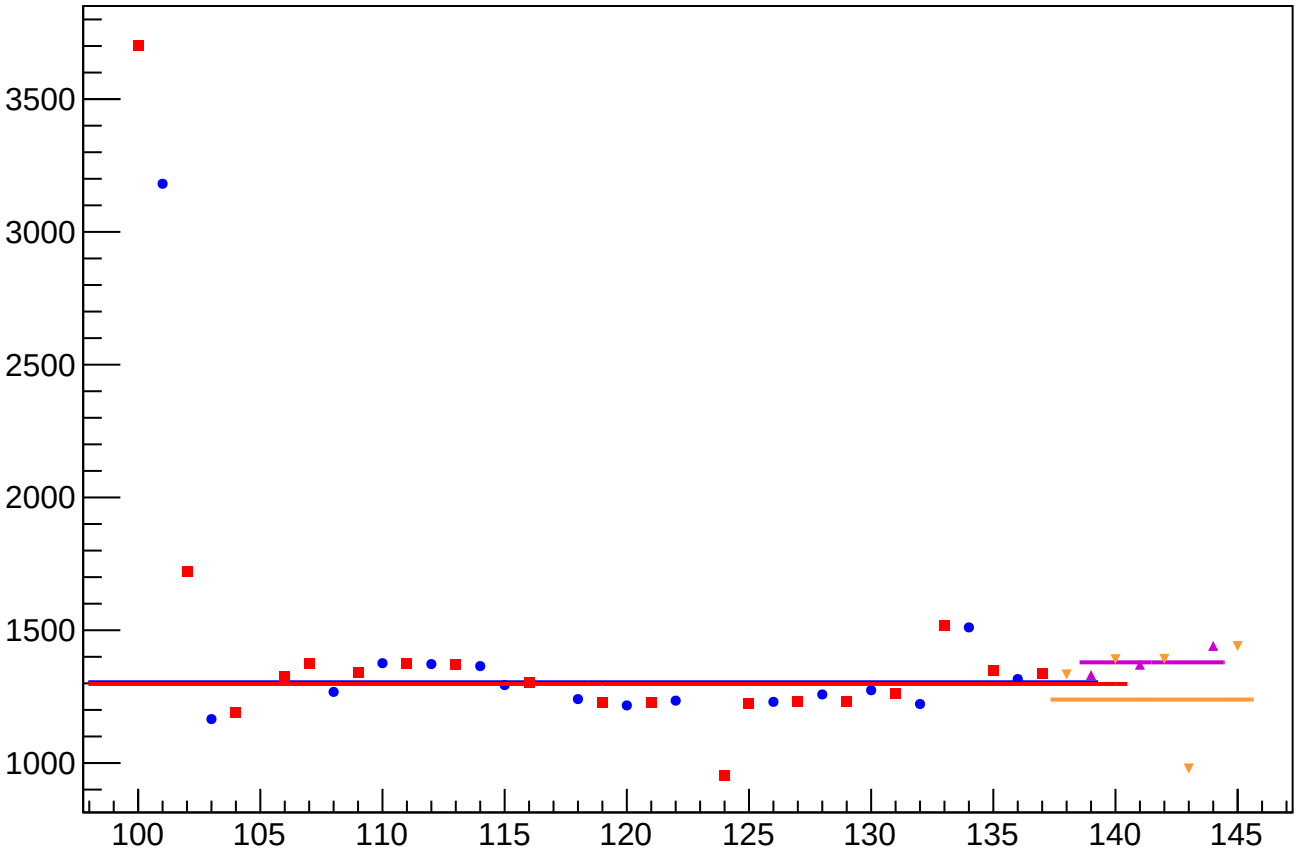
Left: -362.929+/-518.081 $\chi^2$/NDF: 7.6/7

Right: -353.826+/-346.348 $\chi^2$/NDF: 29.5/34

In: -568.395+/-427.314 $\chi^2$/NDF:15.4/18

Out: -180.537+/-389.679 $\chi^2$/NDF:21.3/23

All: -356.637+/-287.932 $\chi^2$/NDF: 37.1/42




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.4/15

Left Out: 1238.998+/-0.462 $\chi^2$/NDF:185091.7/4

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213096.9/18

Left In: 1379.156+/-0.602 $\chi^2$/NDF:5549.6/2

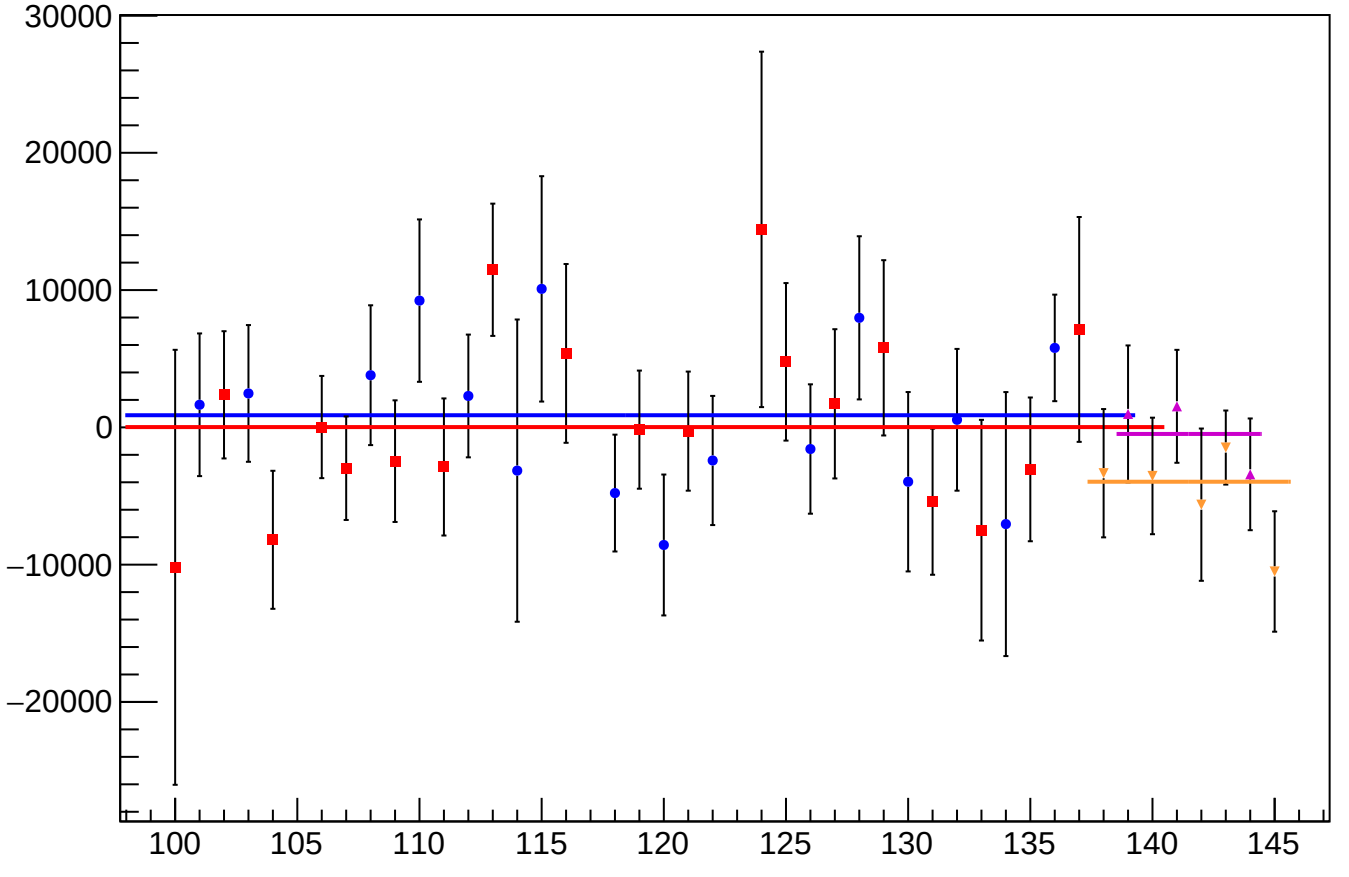
Left: 1290.981+/-0.366 $\chi^2$/NDF: 224795.1/7

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.1/34

In: 1323.039+/-0.302 $\chi^2$/NDF:527778.7/18

Out: 1276.889+/-0.275 $\chi^2$/NDF:408632.3/23

All: 1297.832+/-0.204 $\chi^2$/NDF: 949153.2/42




Right In: 884.058+/-1327.399 $\chi^2$/NDF: 14.1/15

Left Out: -3960.020+/-1758.978 $\chi^2$/NDF:3.2/4

Right Out: 20.681+/-1200.015 $\chi^2$/NDF: 16.8/18

Left In: -479.573+/-2502.432 $\chi^2$/NDF:0.8/2

Left: -2809.066+/-1439.043 $\chi^2$/NDF: 5.3/7

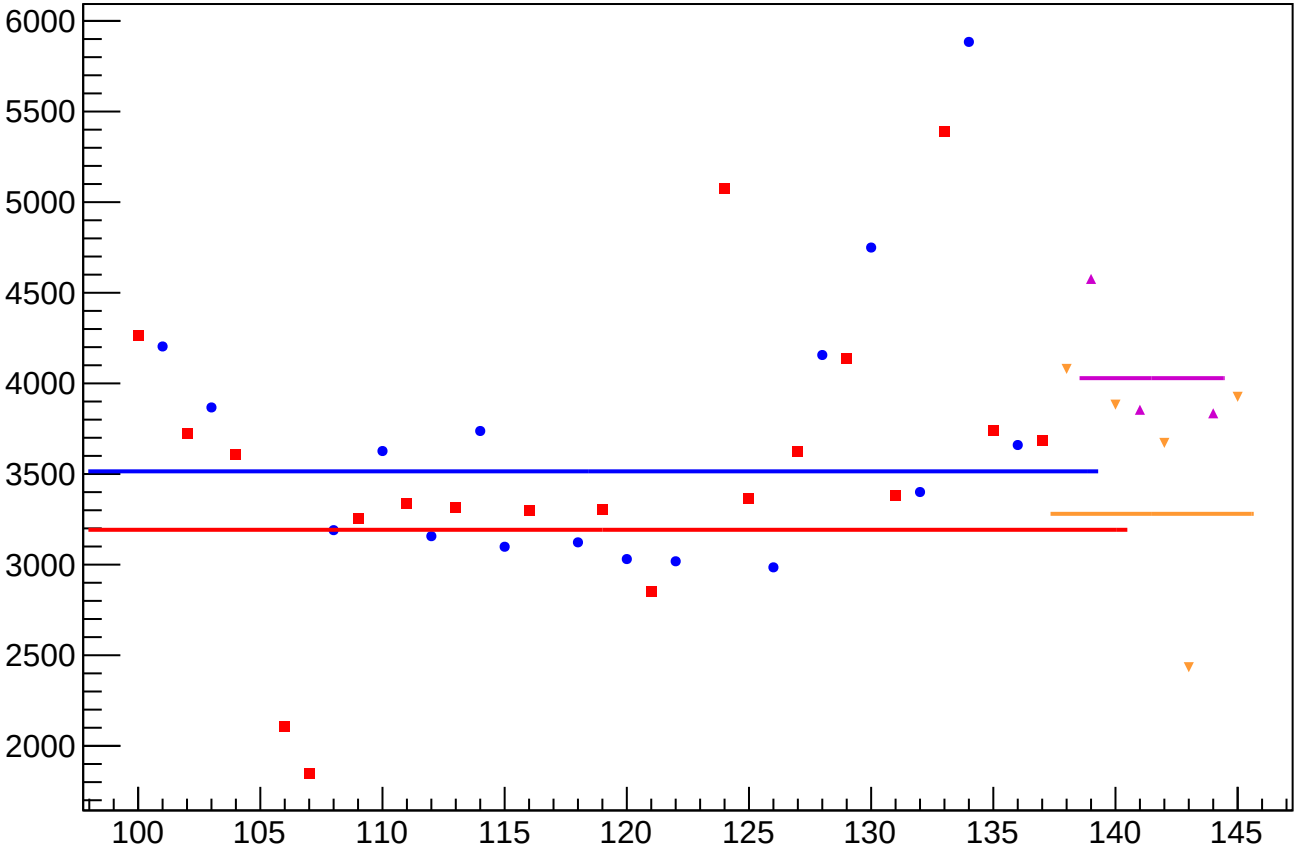
Right: 408.965+/-890.176 $\chi^2$/NDF: 31.2/34

In: 584.624+/-1172.638 $\chi^2$/NDF:15.2/18

Out: -1243.611+/-991.298 $\chi^2$/NDF:23.5/23

All: -481.633+/-757.041 $\chi^2$/NDF: 40.1/42

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.746+/-0.939 $\chi^2$/NDF: 375078.6/15

Left Out: 3280.329+/-1.244 $\chi^2$/NDF:349008.8/4

Right Out: 3192.203+/-0.849 $\chi^2$/NDF: 772495.7/18

Left In: 4028.899+/-1.769 $\chi^2$/NDF:32241.1/2

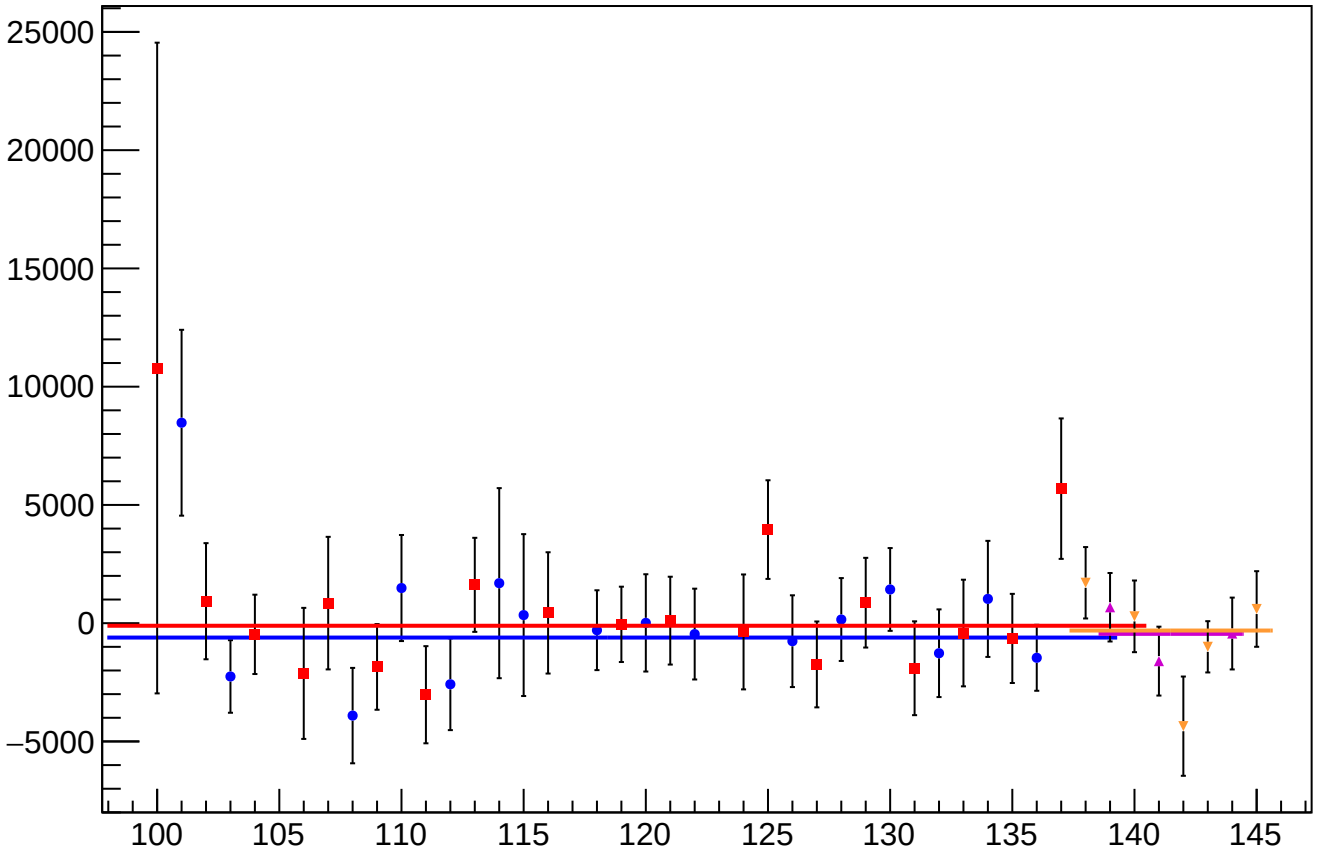
Left: 3527.875+/-1.018 $\chi^2$/NDF: 501033.4/7

Right: 3337.259+/-0.629 $\chi^2$/NDF: 1212554.2/34

In: 3627.646+/-0.829 $\chi^2$/NDF:473209.3/18

Out: 3220.193+/-0.701 $\chi^2$/NDF:1124930.2/23

All: 3390.013+/-0.535 $\chi^2$/NDF: 1738967.3/42




Right In: -607.834+/-494.182 $\chi^2$/NDF: 14.1/15

Left Out: -310.700+/-653.180 $\chi^2$/NDF:6.4/4

Right Out: -108.619+/-485.553 $\chi^2$/NDF: 14.9/18

Left In: -451.531+/-850.703 $\chi^2$/NDF:1.2/2

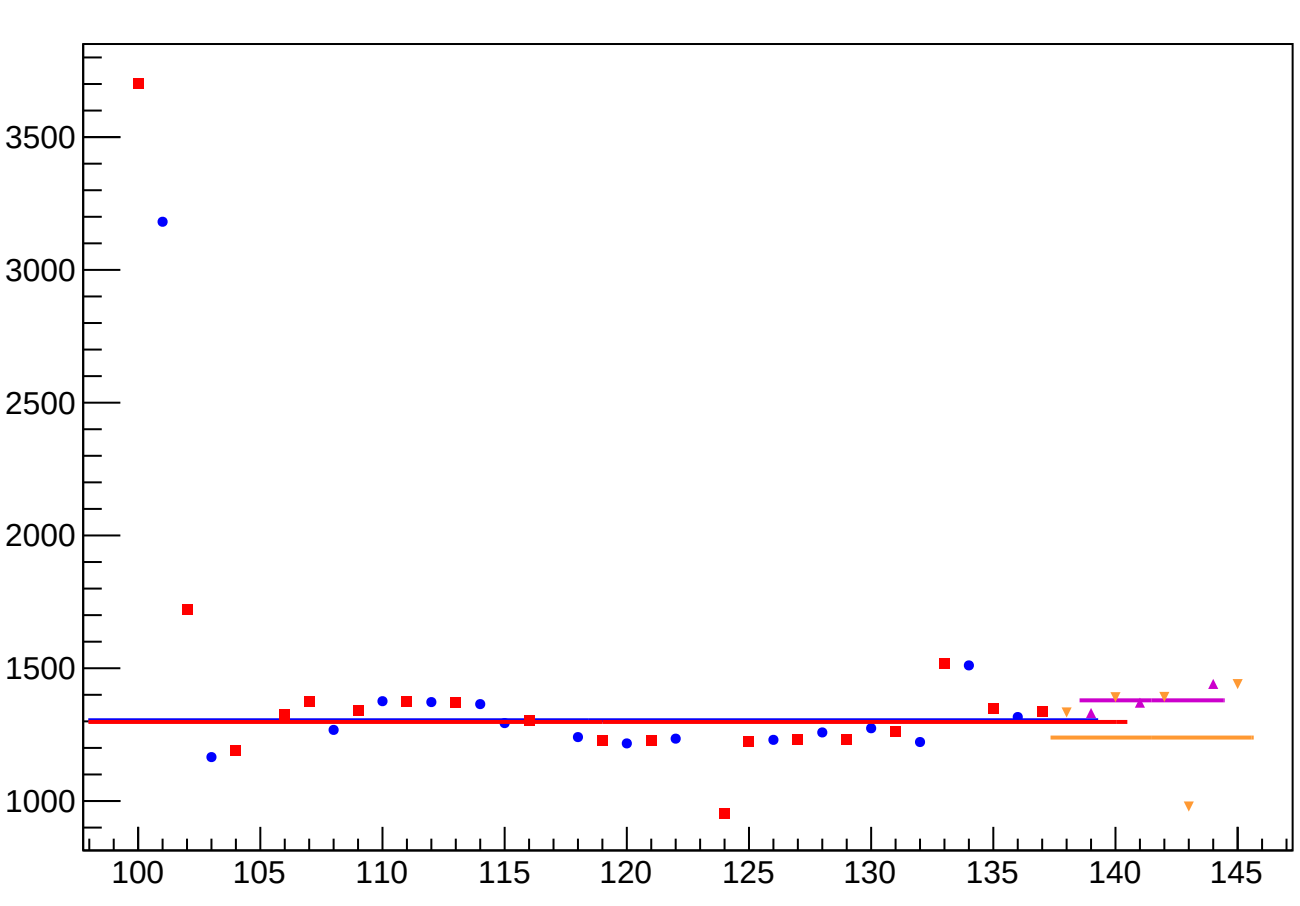
Left: -362.932+/-518.081 $\chi^2$/NDF: 7.6/7

Right: -353.830+/-346.348 $\chi^2$/NDF: 29.5/34

In: -568.397+/-427.314 $\chi^2$/NDF:15.4/18

Out: -180.543+/-389.679 $\chi^2$/NDF:21.3/23

All: -356.642+/-287.932 $\chi^2$/NDF: 37.1/42




Right In: 1304.102+/-0.349 $\chi^2$/NDF: 510589.6/15

Left Out: 1238.999+/-0.462 $\chi^2$/NDF:185092.0/4

Right Out: 1297.796+/-0.343 $\chi^2$/NDF: 213097.0/18

Left In: 1379.157+/-0.602 $\chi^2$/NDF:5549.7/2

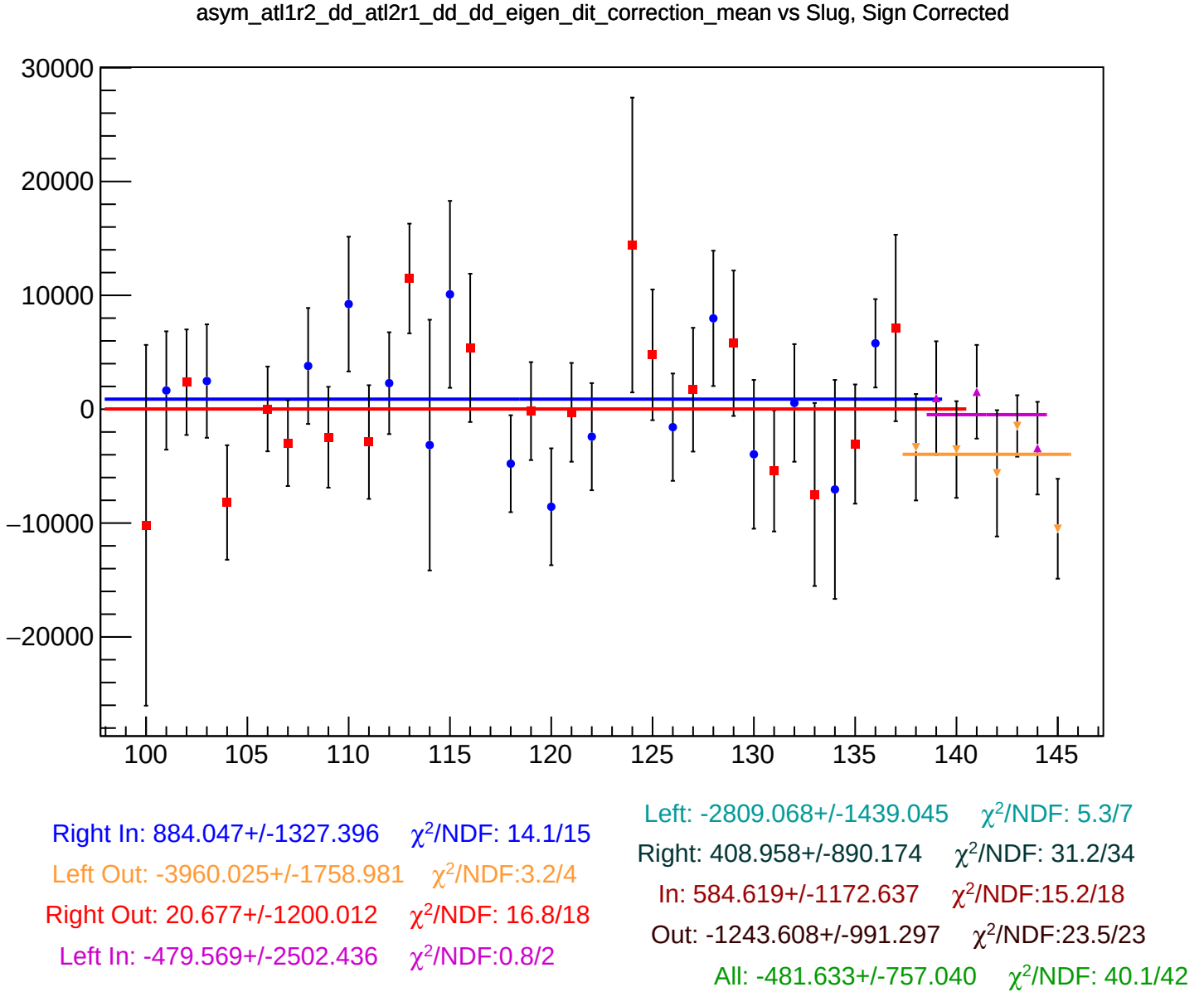
Left: 1290.982+/-0.366 $\chi^2$/NDF: 224795.5/7

Right: 1300.891+/-0.245 $\chi^2$/NDF: 723852.4/34

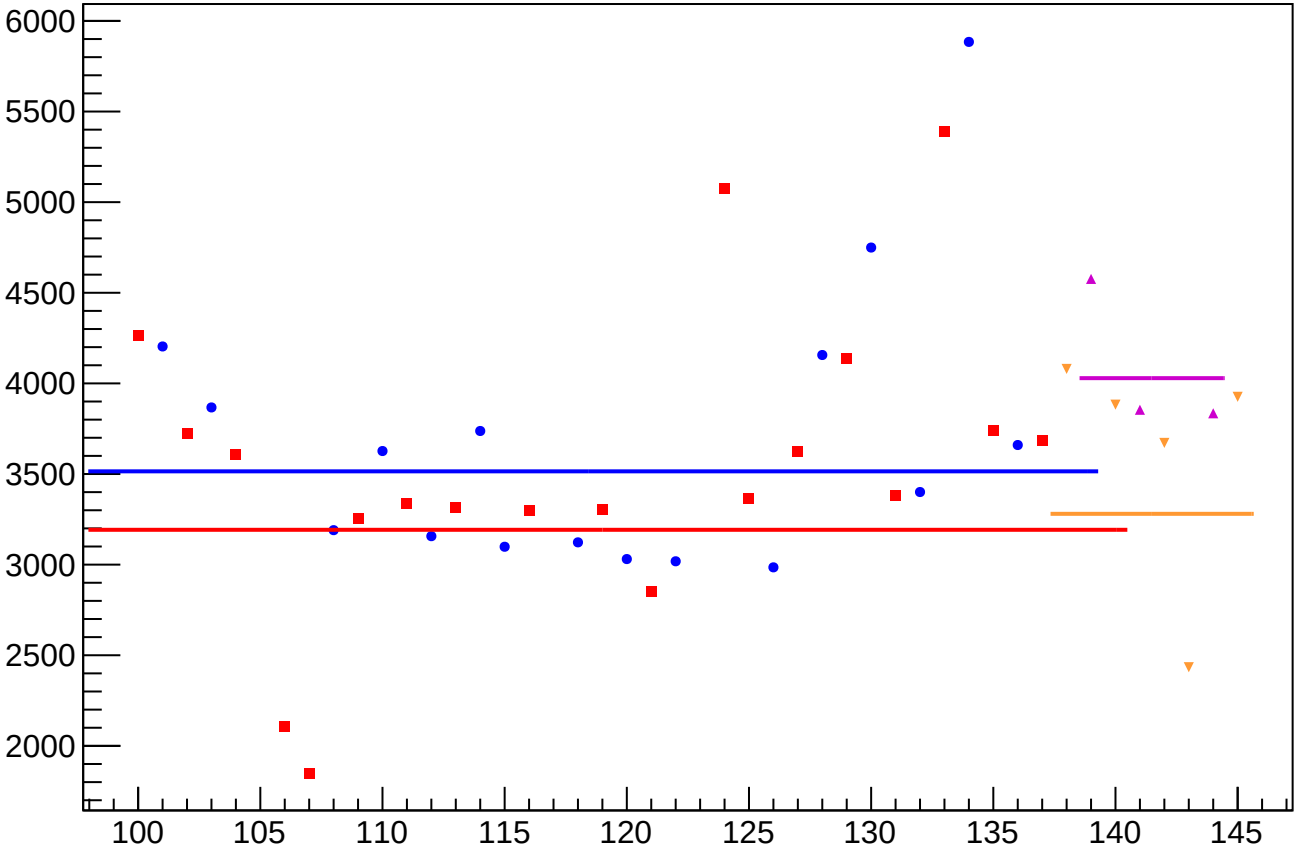
In: 1323.040+/-0.302 $\chi^2$/NDF:527779.3/18

Out: 1276.889+/-0.275 $\chi^2$/NDF:408632.3/23

All: 1297.832+/-0.204 $\chi^2$/NDF: 949153.6/42


asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: 884.047+/-1327.396 χ²/NDF: 14.1/15
Left Out: -3960.025+/-1758.981 χ²/NDF:3.2/4
Right Out: 20.677+/-1200.012 χ²/NDF: 16.8/18
Left In: -479.569+/-2502.436 χ²/NDF:0.8/2
Left: -2809.068+/-1439.045 χ²/NDF: 5.3/7
Right: 408.958+/-890.174 χ²/NDF: 31.2/34
In: 584.619+/-1172.637 χ²/NDF:15.2/18
Out: -1243.608+/-991.297 χ²/NDF:23.5/23
All: -481.633+/-757.040 χ²/NDF: 40.1/42

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3514.737+/-0.939 $\chi^2$/NDF: 375082.8/15

Left Out: 3280.335+/-1.244 $\chi^2$/NDF:349009.7/4

Right Out: 3192.196+/-0.849 $\chi^2$/NDF: 772497.9/18

Left In: 4028.906+/-1.769 $\chi^2$/NDF:32241.7/2

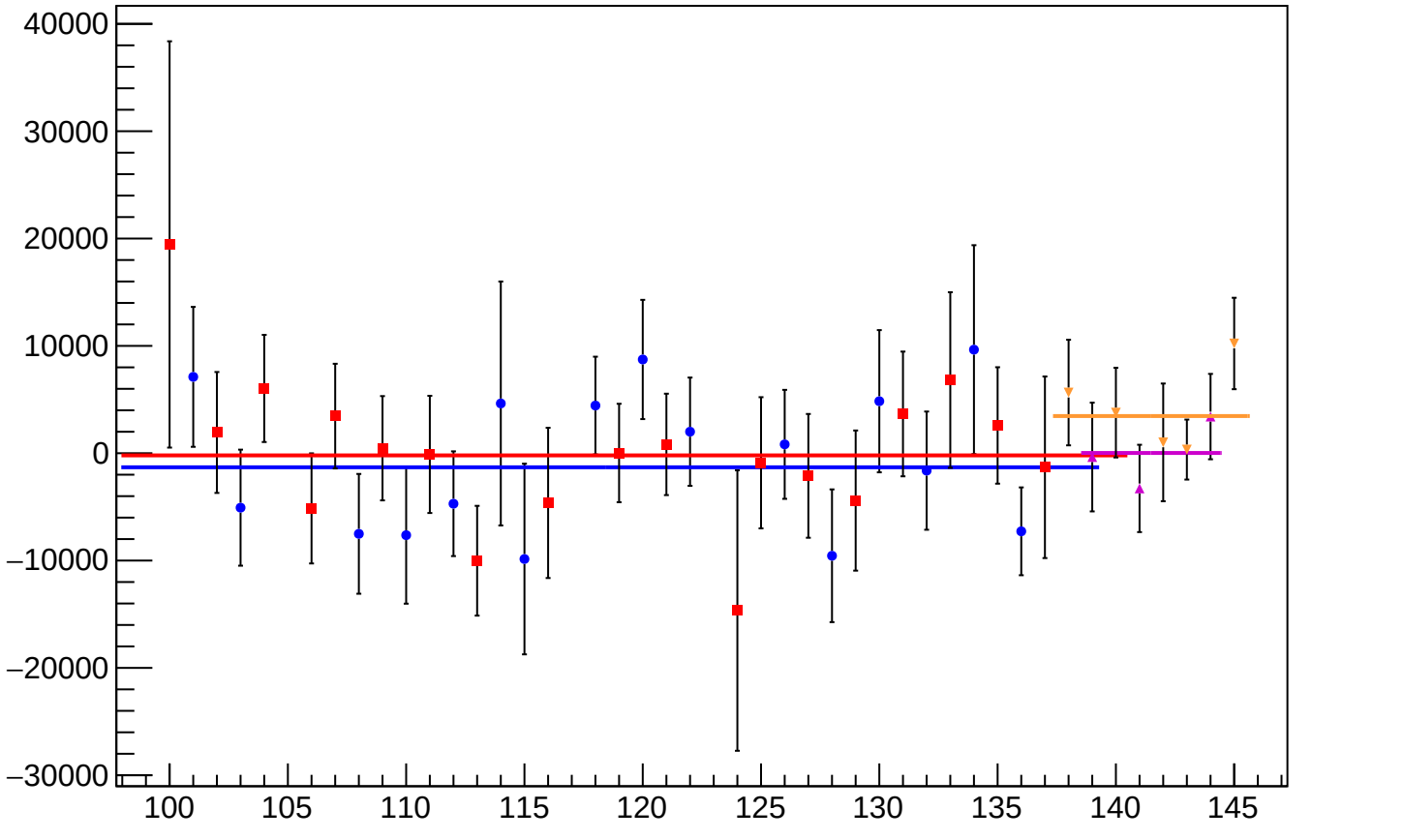
Left: 3527.881+/-1.018 $\chi^2$/NDF: 501034.8/7

Right: 3337.251+/-0.629 $\chi^2$/NDF: 1212560.4/34

In: 3627.640+/-0.829 $\chi^2$/NDF:473218.0/18

Out: 3220.189+/-0.701 $\chi^2$/NDF:1124934.4/23

All: 3390.008+/-0.535 $\chi^2$/NDF: 1738978.6/42




Right In: -1309.349+/-1431.624 $\chi^2$/NDF: 17.6/15

Left Out: 3463.991+/-1781.602 $\chi^2$/NDF:4.2/4

Right Out: -201.593+/-1336.062 $\chi^2$/NDF: 11.6/18

Left In: 22.793+/-2479.396 $\chi^2$/NDF:1.4/2

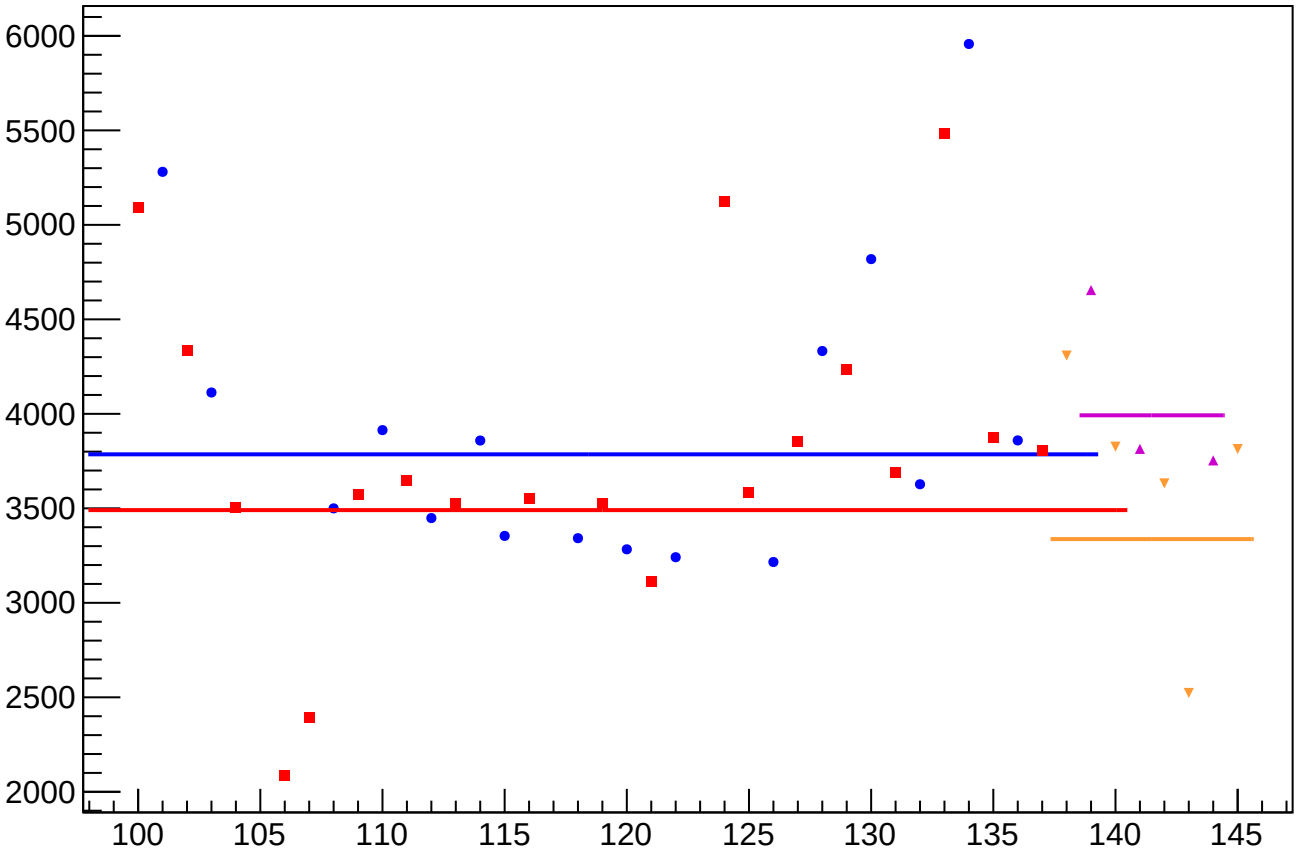
Left: 2292.215+/-1446.817 $\chi^2$/NDF: 6.8/7

Right: -717.269+/-976.776 $\chi^2$/NDF: 29.5/34

In: -976.264+/-1239.792 $\chi^2$/NDF:19.2/18

Out: 1117.841+/-1068.890 $\chi^2$/NDF:18.5/23

All: 224.961+/-809.554 $\chi^2$/NDF: 39.3/42




Right In: 3785.774+/-1.012 $\chi^2$/NDF: 382992.9/15

Left Out: 3337.348+/-1.260 $\chi^2$/NDF:305909.8/4

Right Out: 3490.614+/-0.932 $\chi^2$/NDF: 586715.1/18

Left In: 3992.262+/-1.753 $\chi^2$/NDF:45251.6/2

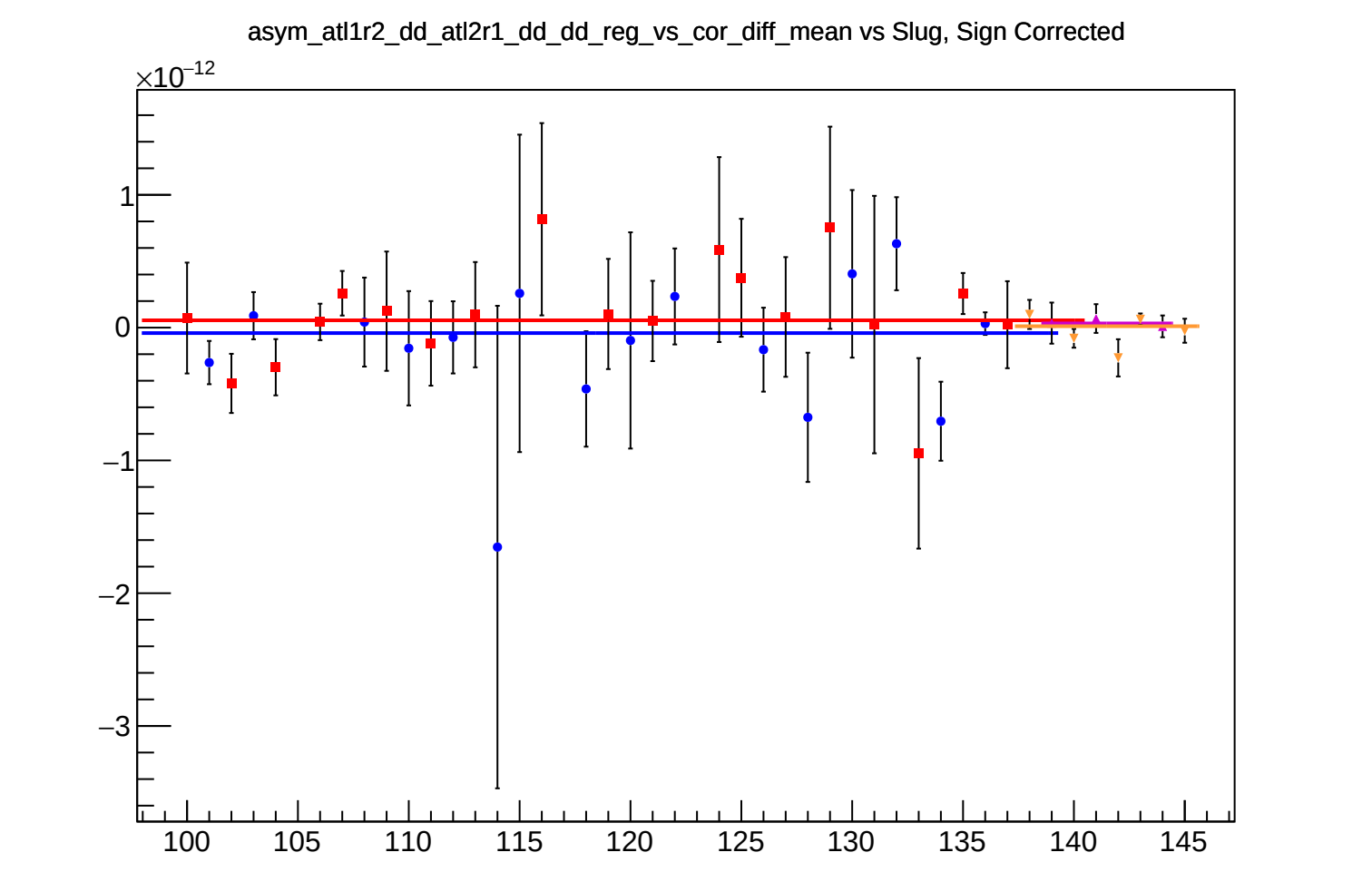
Left: 3560.356+/-1.023 $\chi^2$/NDF: 443187.8/7

Right: 3626.002+/-0.686 $\chi^2$/NDF: 1015727.1/34

In: 3837.403+/-0.877 $\chi^2$/NDF:438647.8/18

Out: 3436.411+/-0.749 $\chi^2$/NDF:902191.7/23

All: 3605.657+/-0.570 $\chi^2$/NDF: 1461756.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.2/2

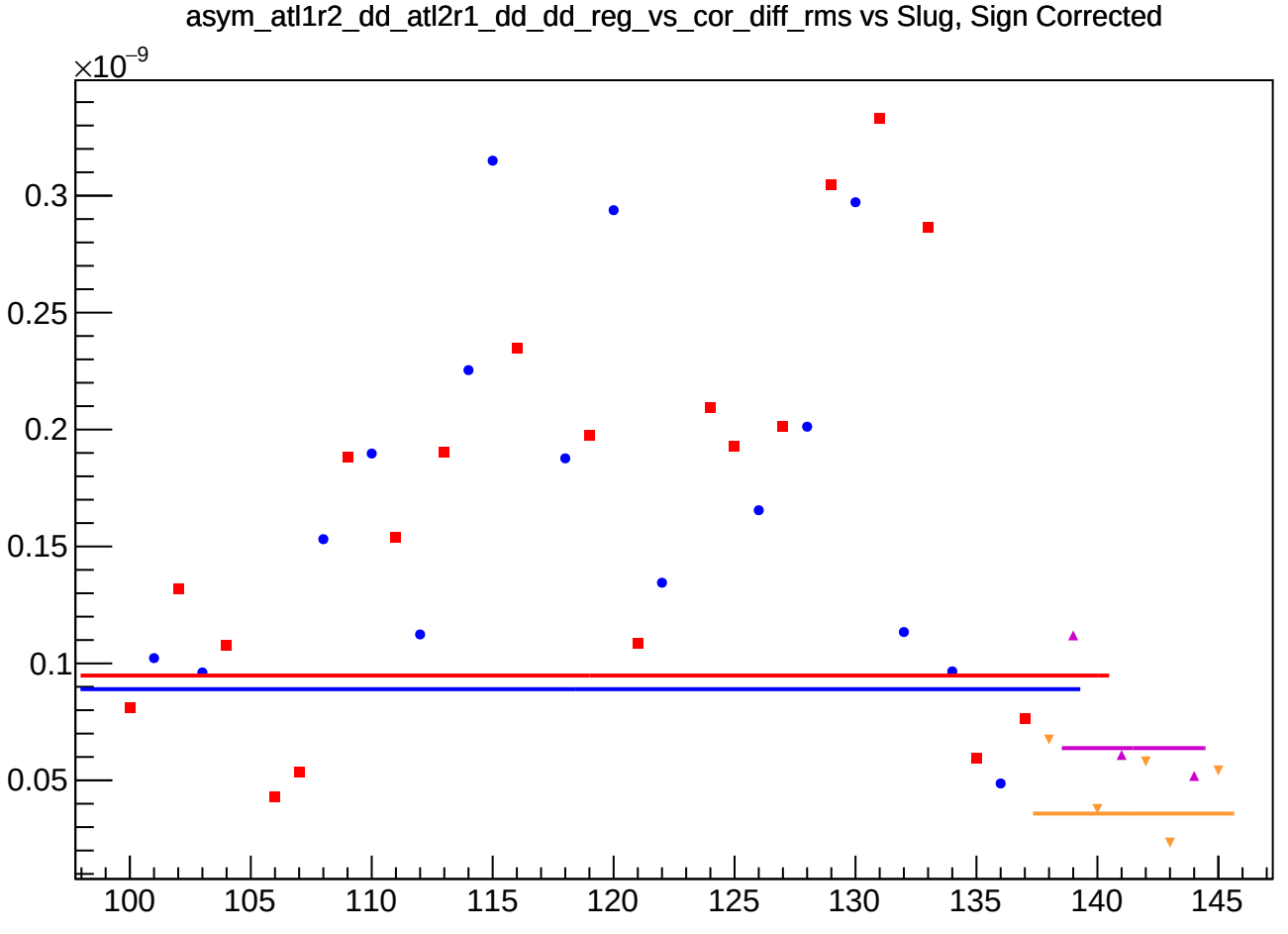
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:17.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 40.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1460718.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:462218.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1734601.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:237675.2/2

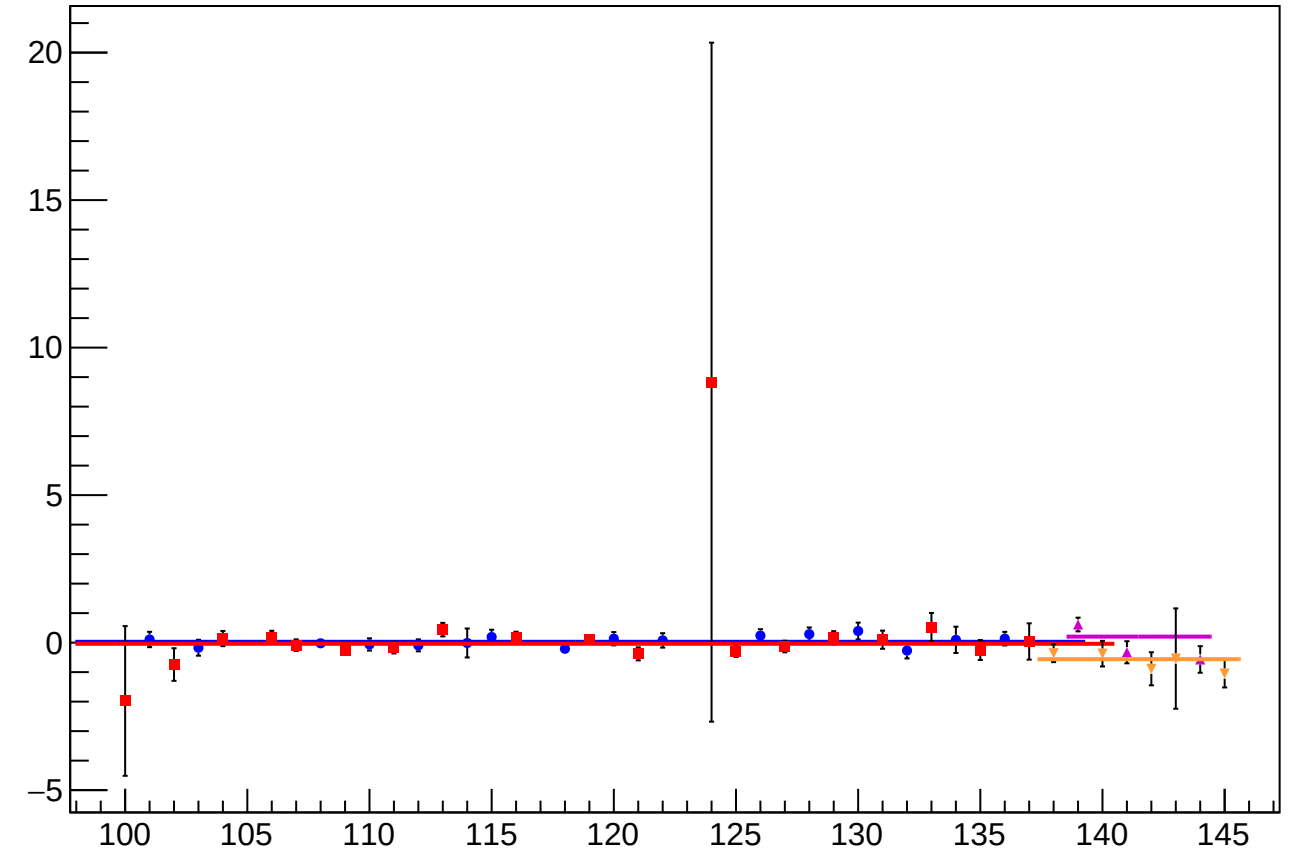
Left: 0.000+/-0.000 $\chi^2$/NDF: 1036447.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3204262.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:1877202.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3557685.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6082868.6/42




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

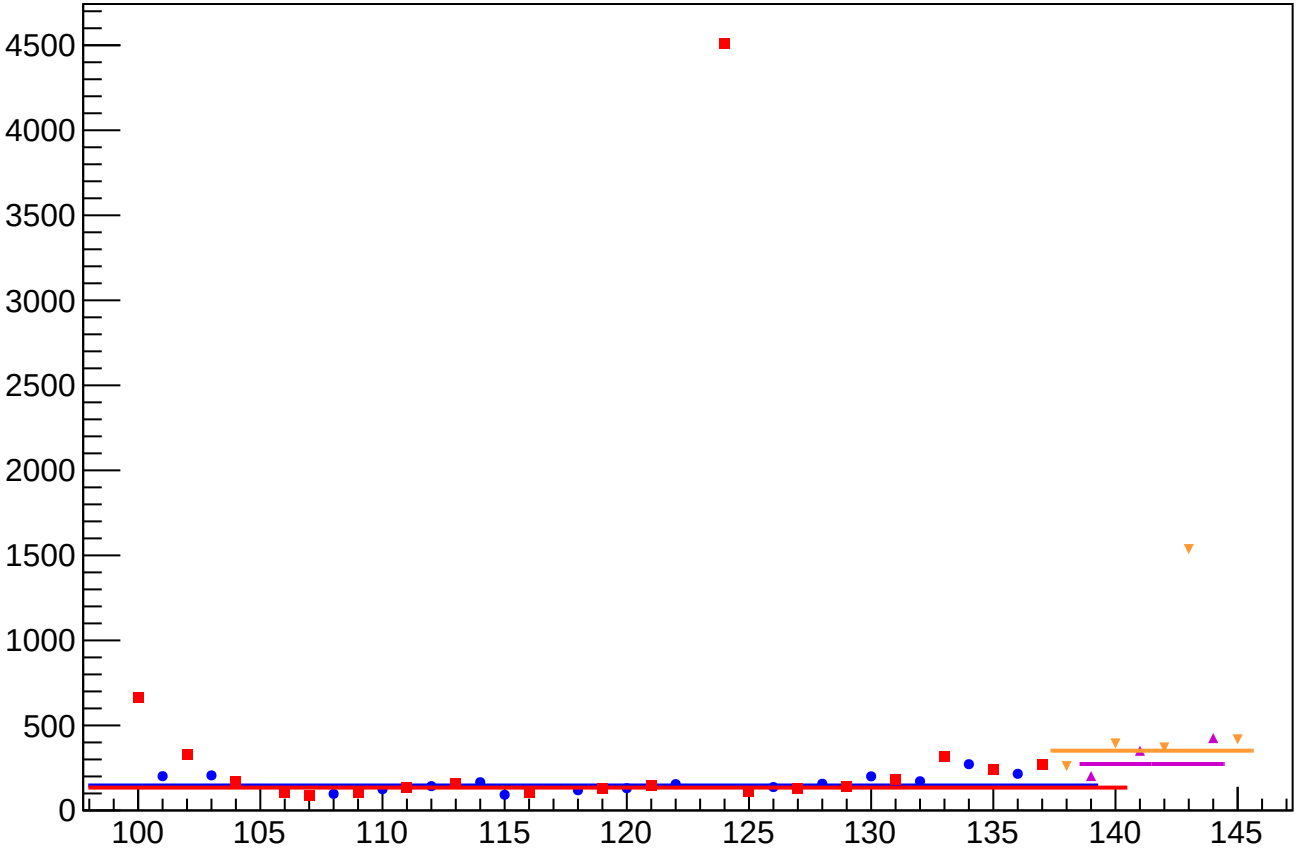
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.544+/-0.144 $\chi^2$/NDF:1213708.4/4

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 273.171+/-0.128 $\chi^2$/NDF:499529.4/2

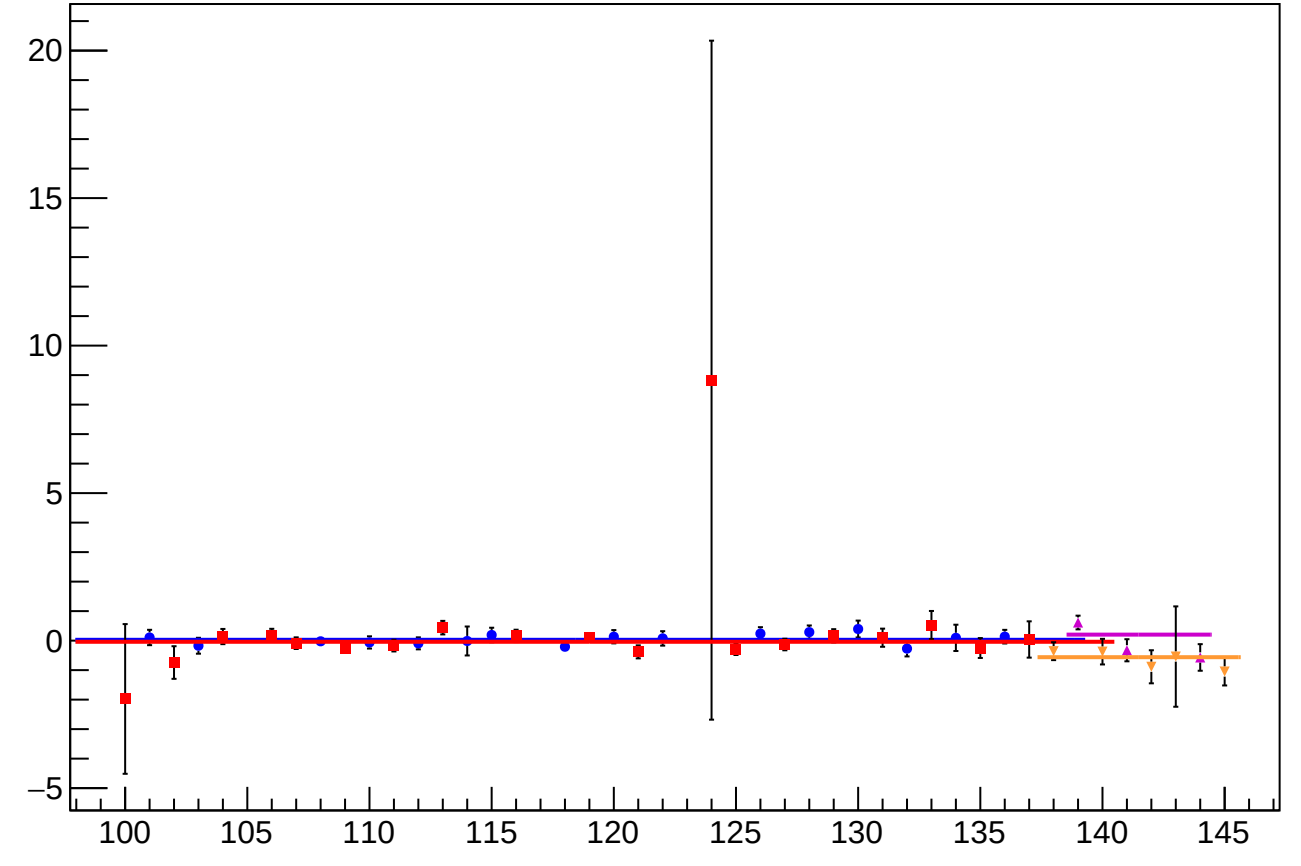
Left: 307.888+/-0.096 $\chi^2$/NDF: 1879295.6/7

Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382568.7/18

Out: 149.236+/-0.037 $\chi^2$/NDF:4951143.7/23

All: 153.680+/-0.027 $\chi^2$/NDF: 7363090.3/42




Right In: 0.028+/-0.058 $\chi^2$/NDF: 9.4/15

Left Out: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

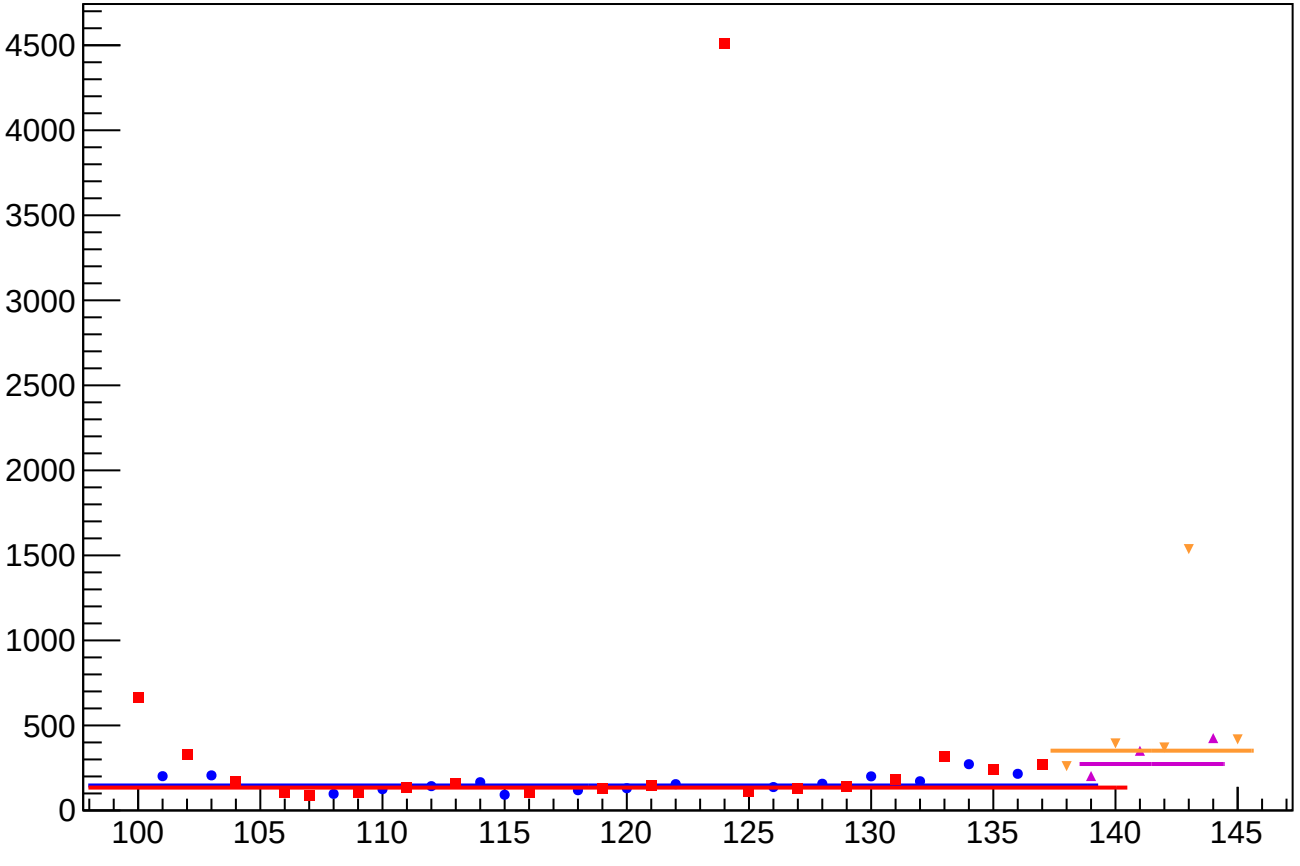
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.544+/-0.144 $\chi^2$/NDF:1213708.4/4

Right Out: 134.505+/-0.039 $\chi^2$/NDF: 1606383.2/18

Left In: 273.171+/-0.128 $\chi^2$/NDF:499529.4/2

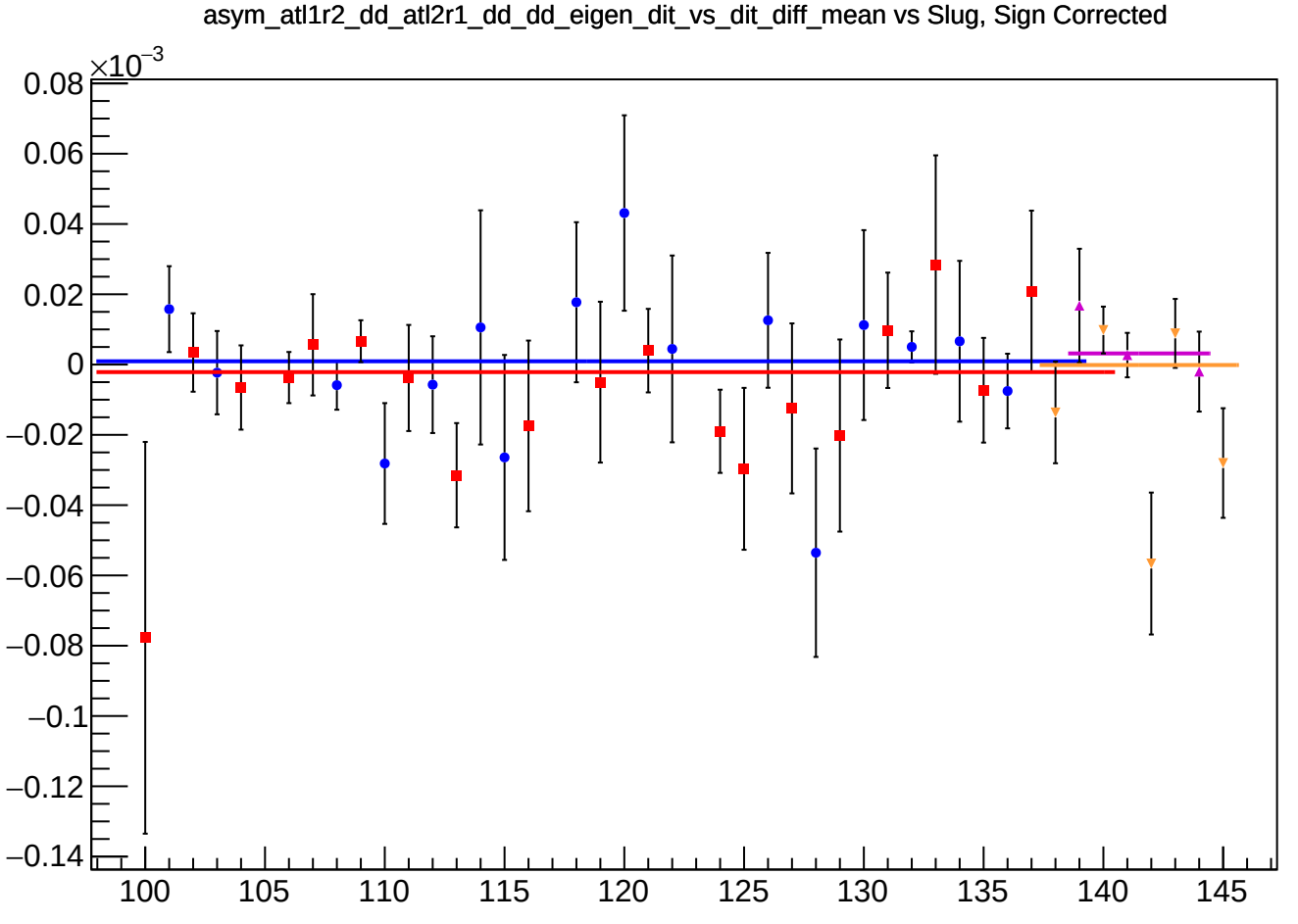
Left: 307.888+/-0.096 $\chi^2$/NDF: 1879295.6/7

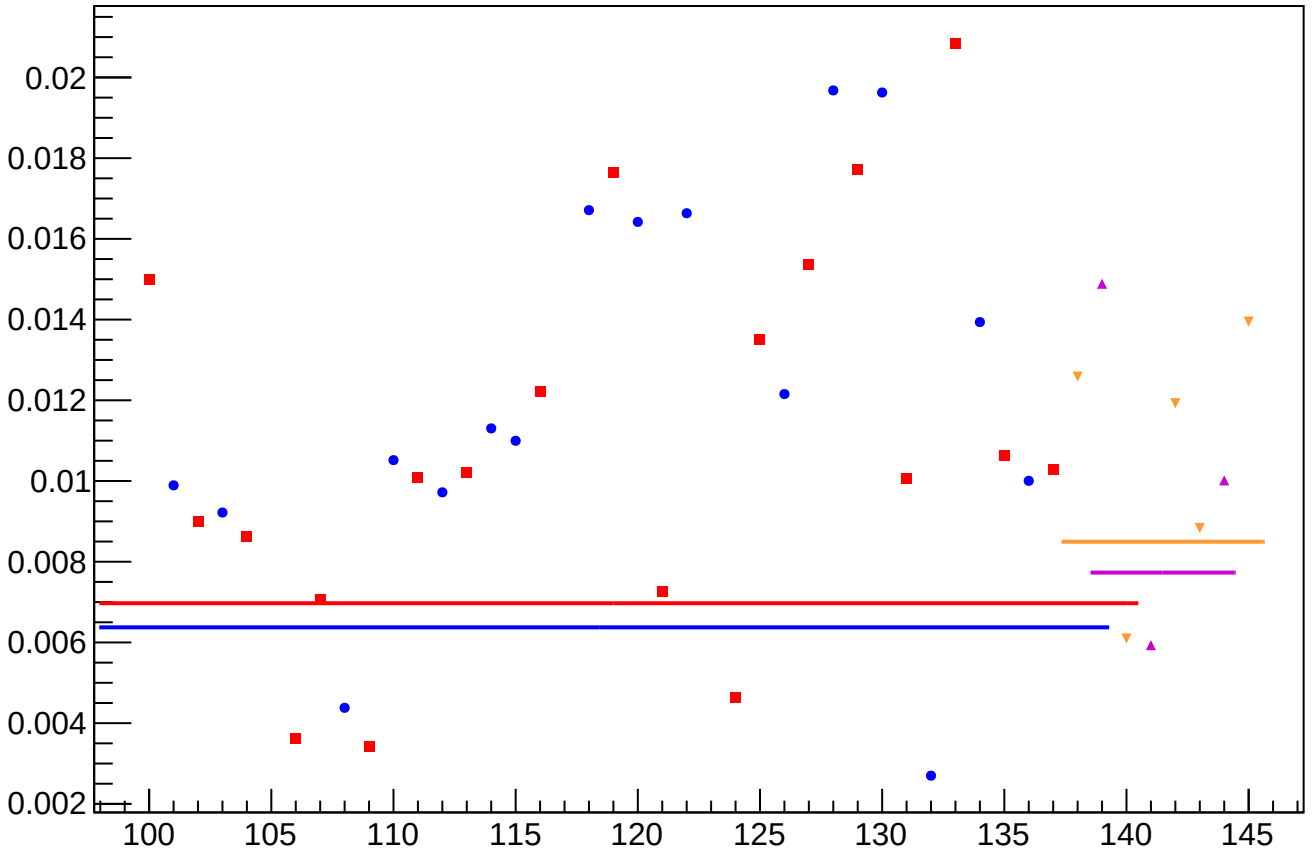
Right: 140.347+/-0.028 $\chi^2$/NDF: 2653079.7/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382568.7/18

Out: 149.236+/-0.037 $\chi^2$/NDF:4951143.7/23

All: 153.680+/-0.027 $\chi^2$/NDF: 7363090.3/42


asym_atl1r2_dd_atl2r1_dd_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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 14.9/15
Left Out: -0.000+/-0.000 χ²/NDF:15.0/4
Right Out: -0.000+/-0.000 χ²/NDF: 16.0/18
Left In: 0.000+/-0.000 χ²/NDF:0.9/2
Left: 0.000+/-0.000 χ²/NDF: 16.1/7
Right: -0.000+/-0.000 χ²/NDF: 31.5/34
In: 0.000+/-0.000 χ²/NDF:15.9/18
Out: -0.000+/-0.000 χ²/NDF:31.1/23
All: -0.000+/-0.000 χ²/NDF: 47.8/42




Right In: 0.006+/-0.000 $\chi^2$/NDF: 4639775.7/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:723659.6/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 3409939.3/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:632815.0/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 1379863.4/7

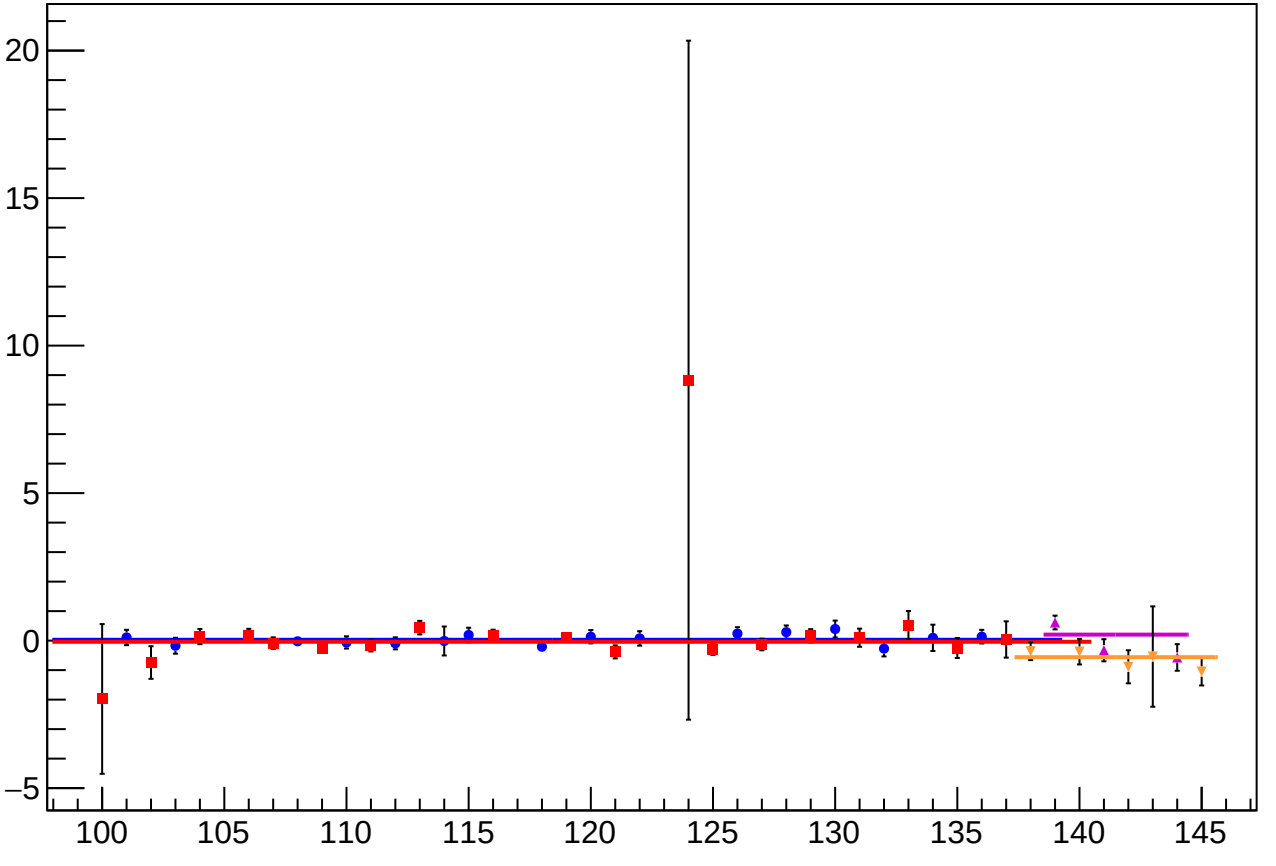
Right: 0.007+/-0.000 $\chi^2$/NDF: 8090163.7/34

In: 0.007+/-0.000 $\chi^2$/NDF:5375064.1/18

Out: 0.007+/-0.000 $\chi^2$/NDF:4280195.8/23

All: 0.007+/-0.000 $\chi^2$/NDF: 9732991.6/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

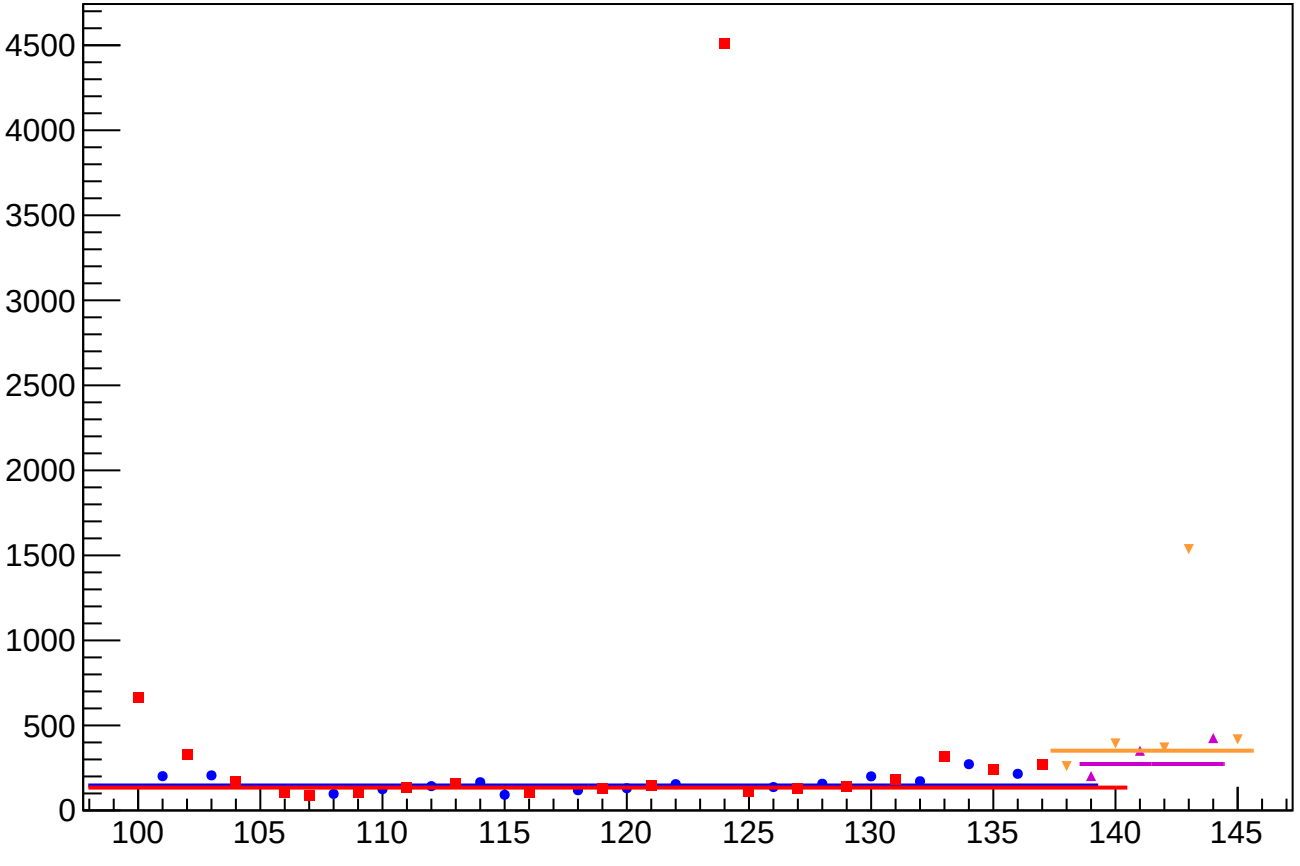
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.549+/-0.144 $\chi^2$/NDF:1213701.1/4

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 273.176+/-0.128 $\chi^2$/NDF:499512.0/2

Left: 307.893+/-0.096 $\chi^2$/NDF: 1879265.7/7

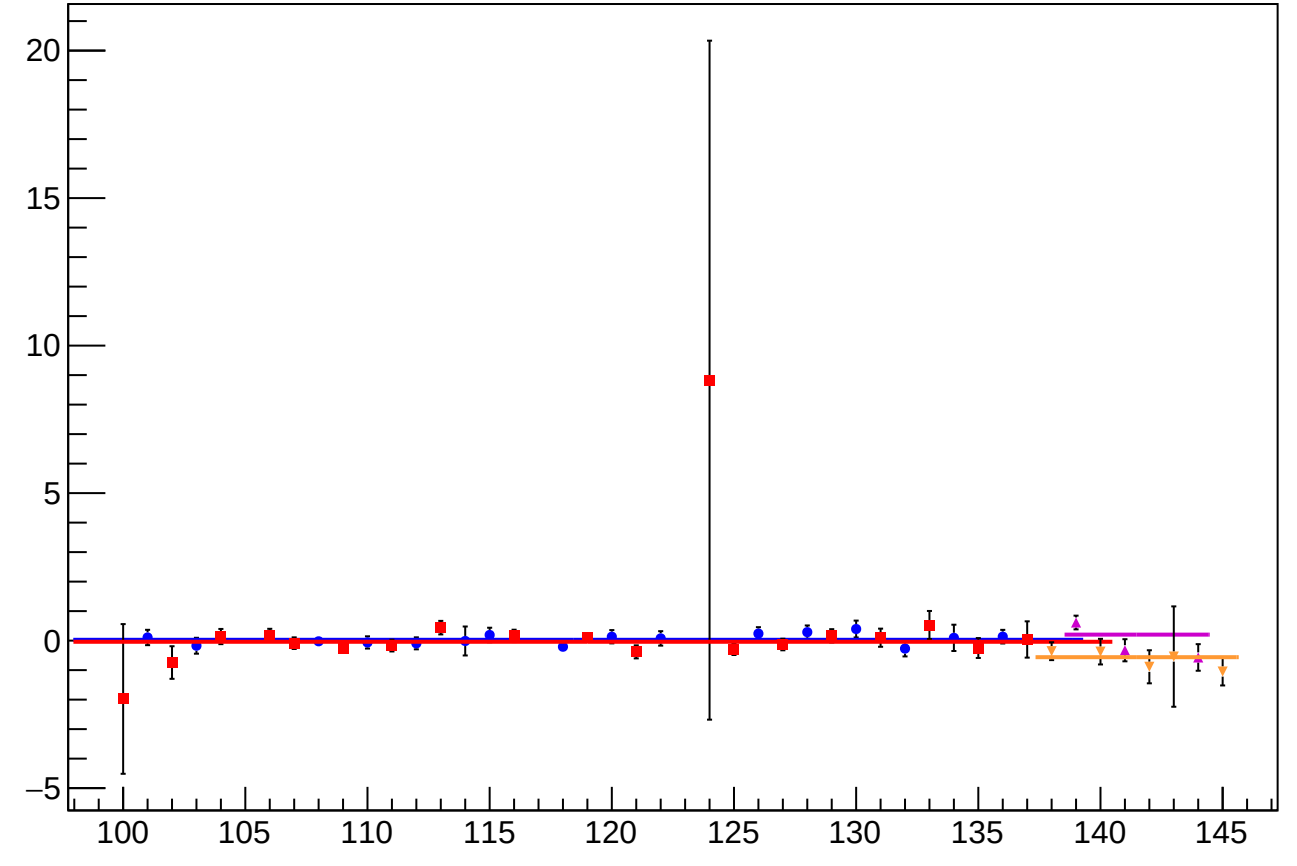
Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382536.0/18

Out: 149.238+/-0.037 $\chi^2$/NDF:4951078.9/23

All: 153.681+/-0.027 $\chi^2$/NDF: 7362984.1/42

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: -0.562+/-0.203 $\chi^2$/NDF:2.0/4

Right Out: -0.039+/-0.055 $\chi^2$/NDF: 20.0/18

Left In: 0.203+/-0.181 $\chi^2$/NDF:8.1/2

Left: -0.136+/-0.135 $\chi^2$/NDF: 18.0/7

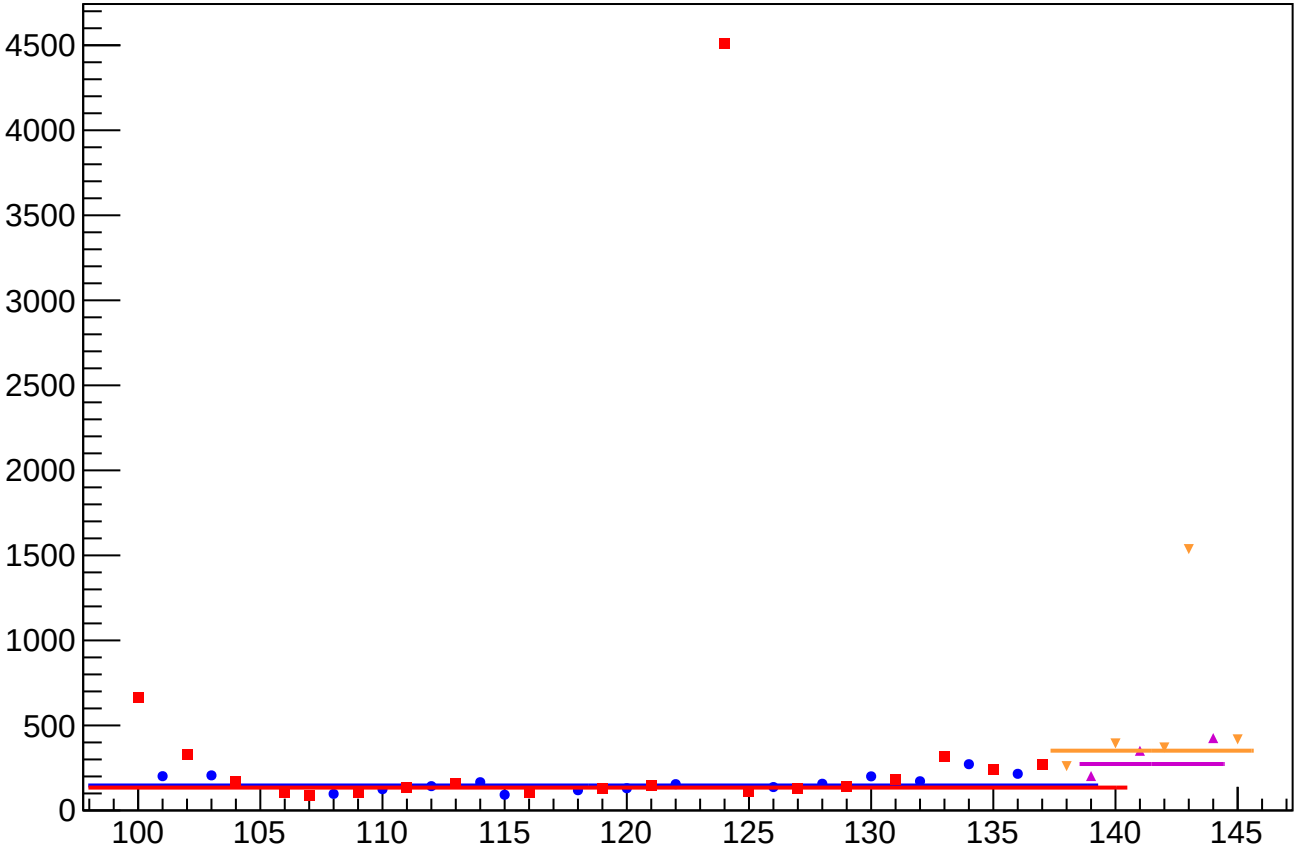
Right: -0.007+/-0.040 $\chi^2$/NDF: 30.2/34

In: 0.044+/-0.055 $\chi^2$/NDF:18.4/18

Out: -0.075+/-0.053 $\chi^2$/NDF:28.2/23

All: -0.018+/-0.038 $\chi^2$/NDF: 49.0/42

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: 351.549+/-0.144 $\chi^2$/NDF:1213701.1/4

Right Out: 134.506+/-0.039 $\chi^2$/NDF: 1606310.4/18

Left In: 273.176+/-0.128 $\chi^2$/NDF:499512.0/2

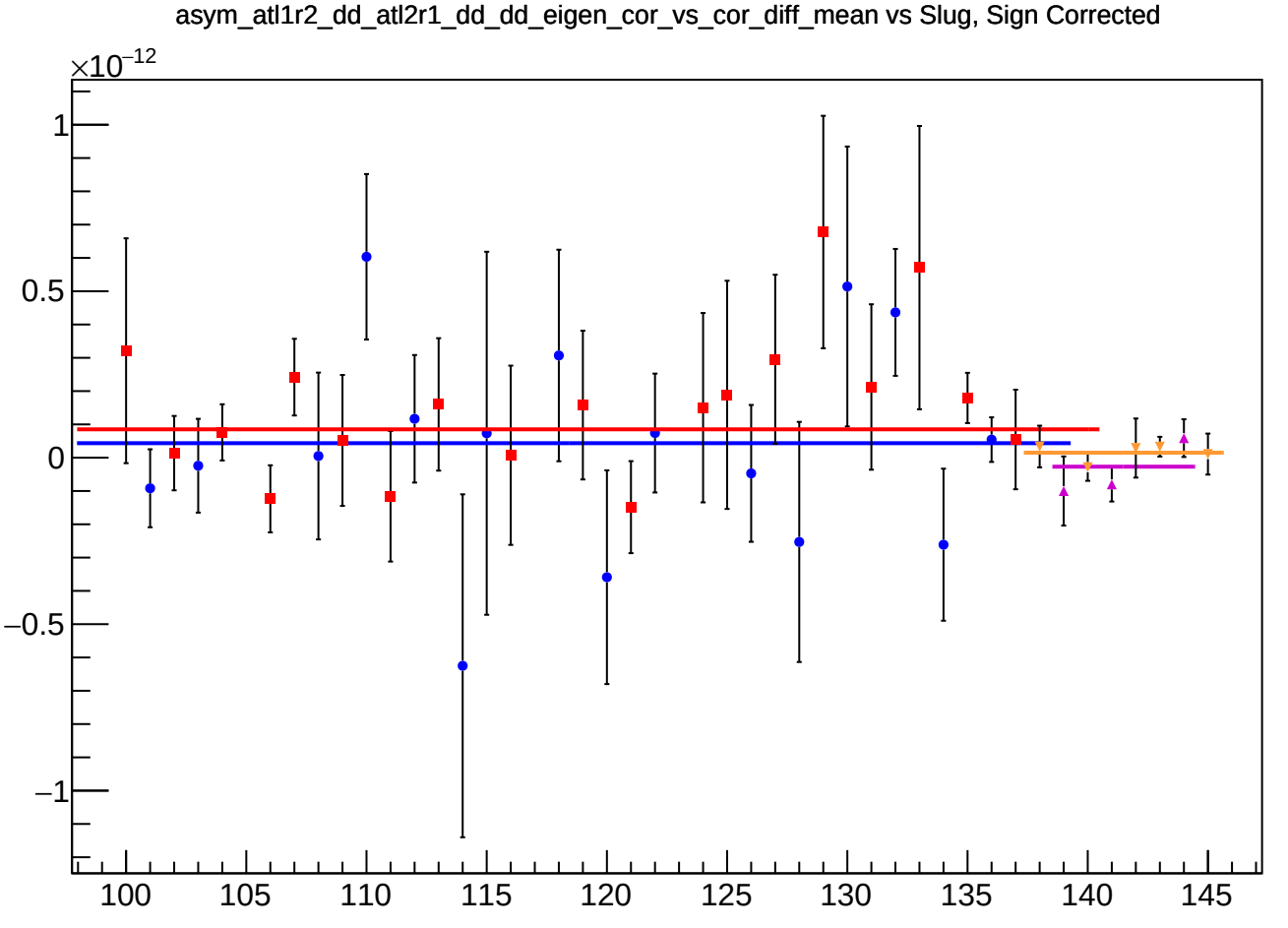
Left: 307.893+/-0.096 $\chi^2$/NDF: 1879265.7/7

Right: 140.348+/-0.028 $\chi^2$/NDF: 2652938.4/34

In: 158.482+/-0.039 $\chi^2$/NDF:2382536.0/18

Out: 149.238+/-0.037 $\chi^2$/NDF:4951078.9/23

All: 153.681+/-0.027 $\chi^2$/NDF: 7362984.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.8/2

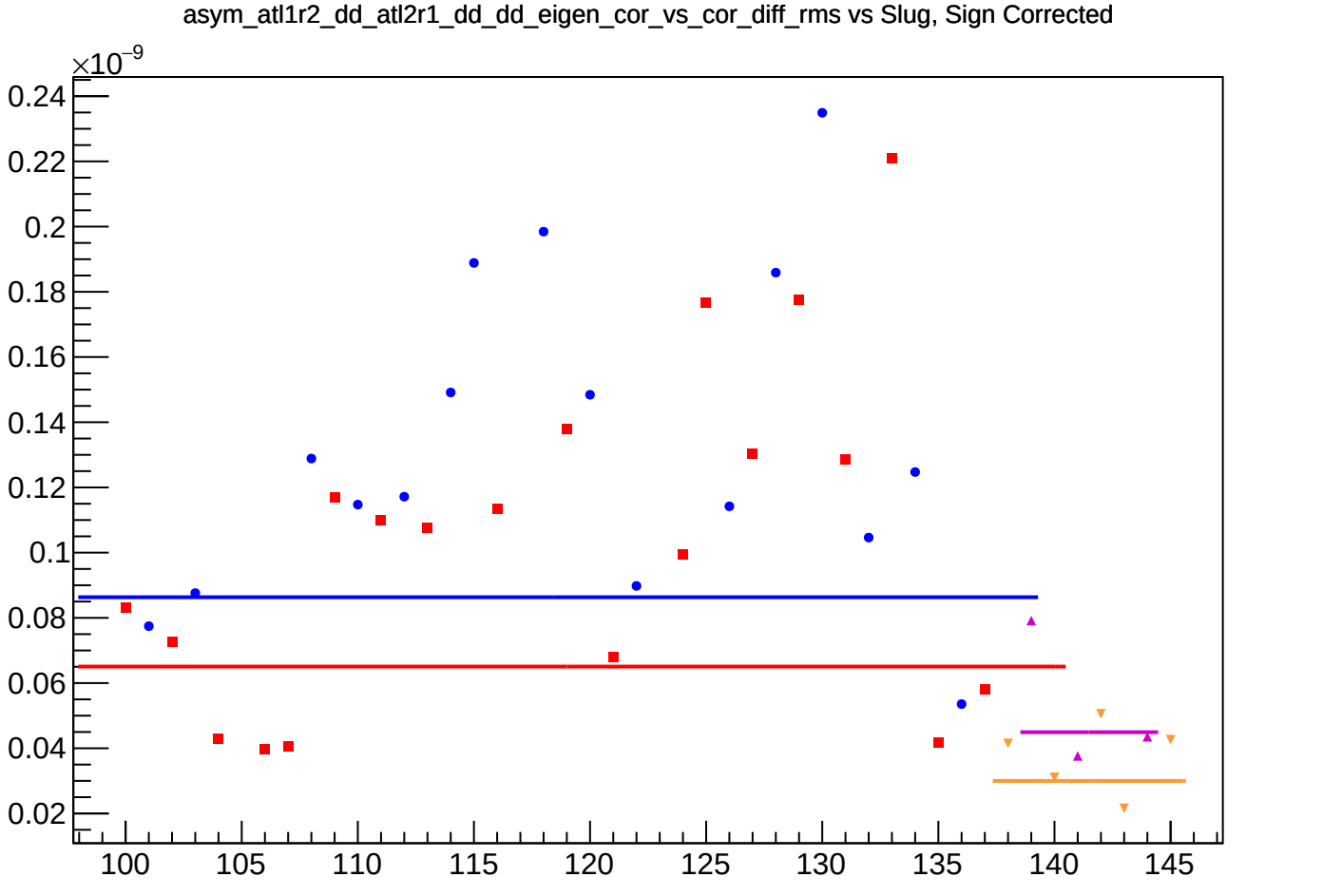
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 48.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1565662.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:422011.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2158861.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:258662.8/2

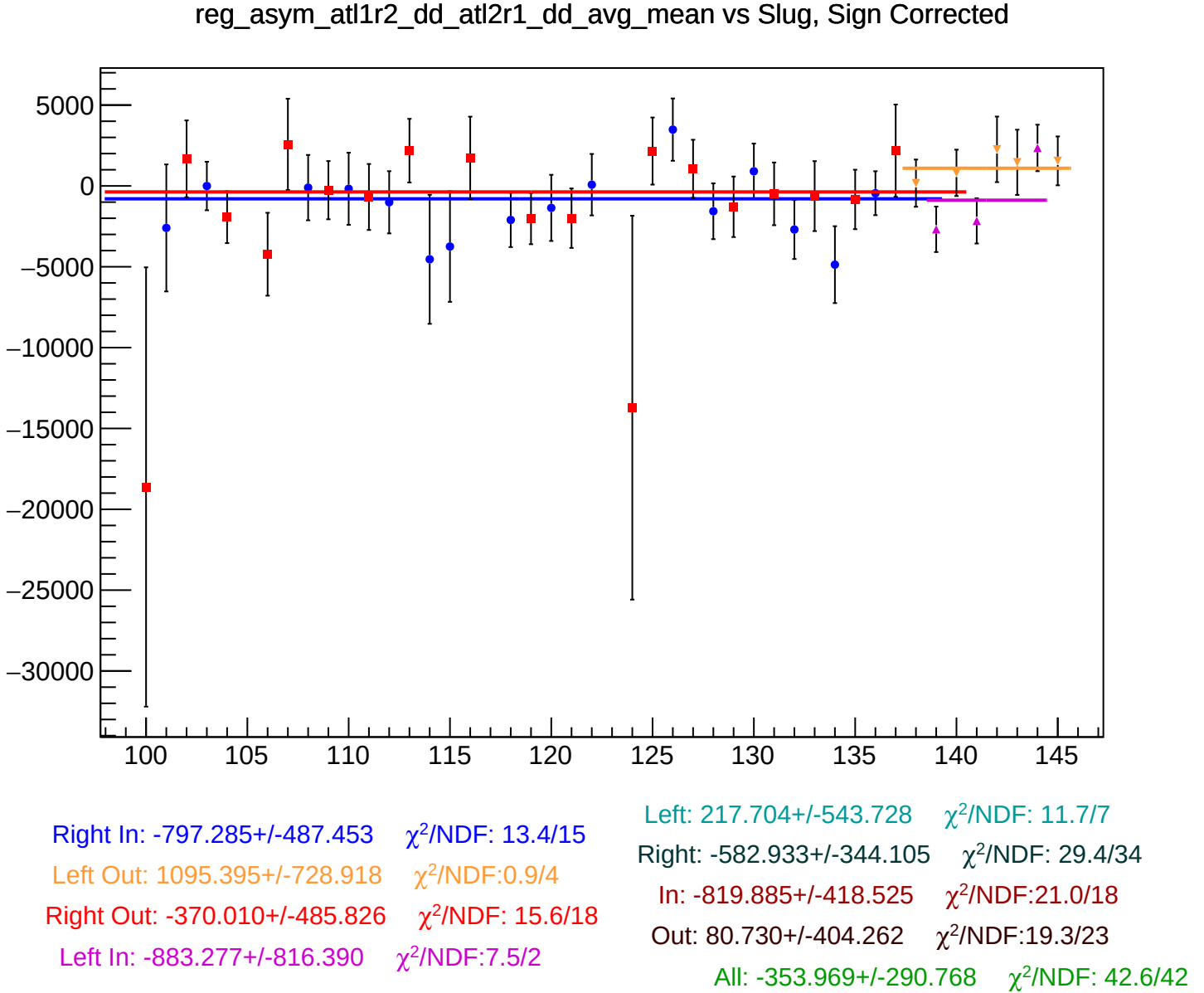
Left: 0.000+/-0.000 $\chi^2$/NDF: 943572.8/7

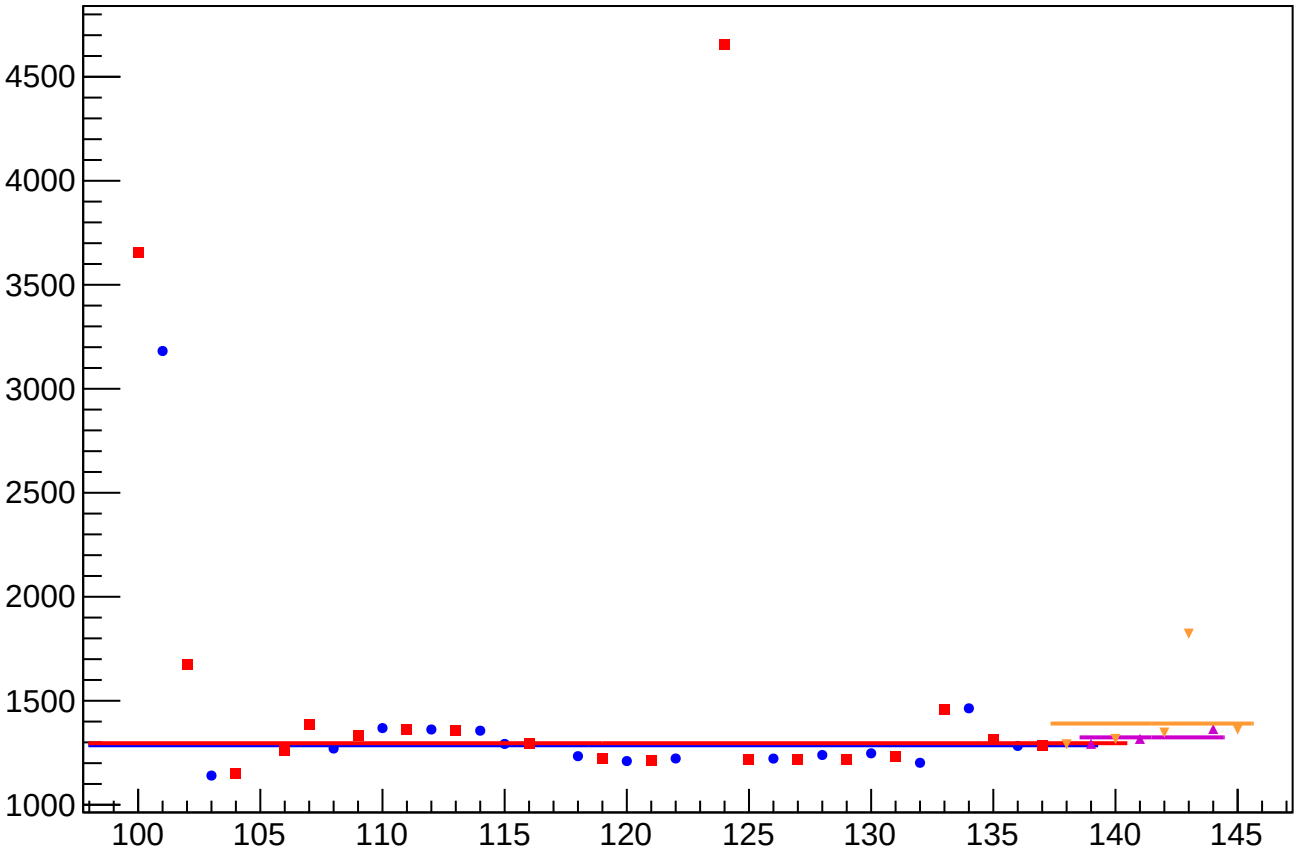
Right: 0.000+/-0.000 $\chi^2$/NDF: 4026528.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2927187.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4126249.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8029172.8/42


reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -797.285+/-487.453 χ²/NDF: 13.4/15
Left Out: 1095.395+/-728.918 χ²/NDF:0.9/4
Right Out: -370.010+/-485.826 χ²/NDF: 15.6/18
Left In: -883.277+/-816.390 χ²/NDF:7.5/2
Left: 217.704+/-543.728 χ²/NDF: 11.7/7
Right: -582.933+/-344.105 χ²/NDF: 29.4/34
In: -819.885+/-418.525 χ²/NDF:21.0/18
Out: 80.730+/-404.262 χ²/NDF:19.3/23
All: -353.969+/-290.768 χ²/NDF: 42.6/42




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518126.9/15

Left Out: 1390.491+/-0.515 $\chi^2$/NDF:108101.4/4

Right Out: 1295.943+/-0.344 $\chi^2$/NDF: 328069.9/18

Left In: 1324.049+/-0.577 $\chi^2$/NDF:2596.7/2

Left: 1361.019+/-0.384 $\chi^2$/NDF: 118069.1/7

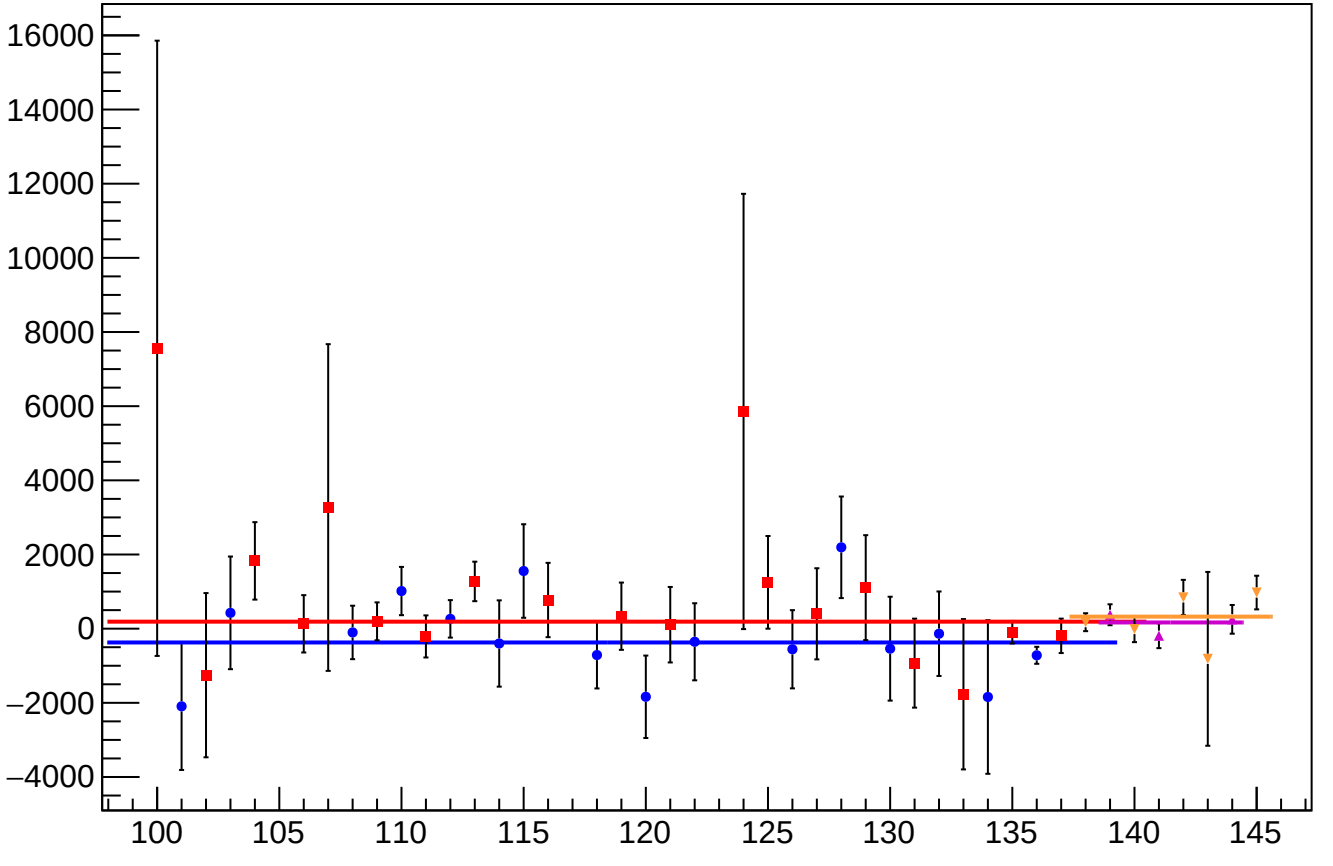
Right: 1291.036+/-0.243 $\chi^2$/NDF: 846606.2/34

In: 1296.071+/-0.296 $\chi^2$/NDF:523909.8/18

Out: 1325.024+/-0.286 $\chi^2$/NDF:459470.6/23

All: 1311.050+/-0.206 $\chi^2$/NDF: 988332.0/42

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: 324.322+/-169.811 $\chi^2$/NDF:4.8/4

Right Out: 188.945+/-169.575 $\chi^2$/NDF: 14.6/18

Left In: 167.222+/-188.596 $\chi^2$/NDF:1.7/2

Left: 253.984+/-126.195 $\chi^2$/NDF: 6.9/7

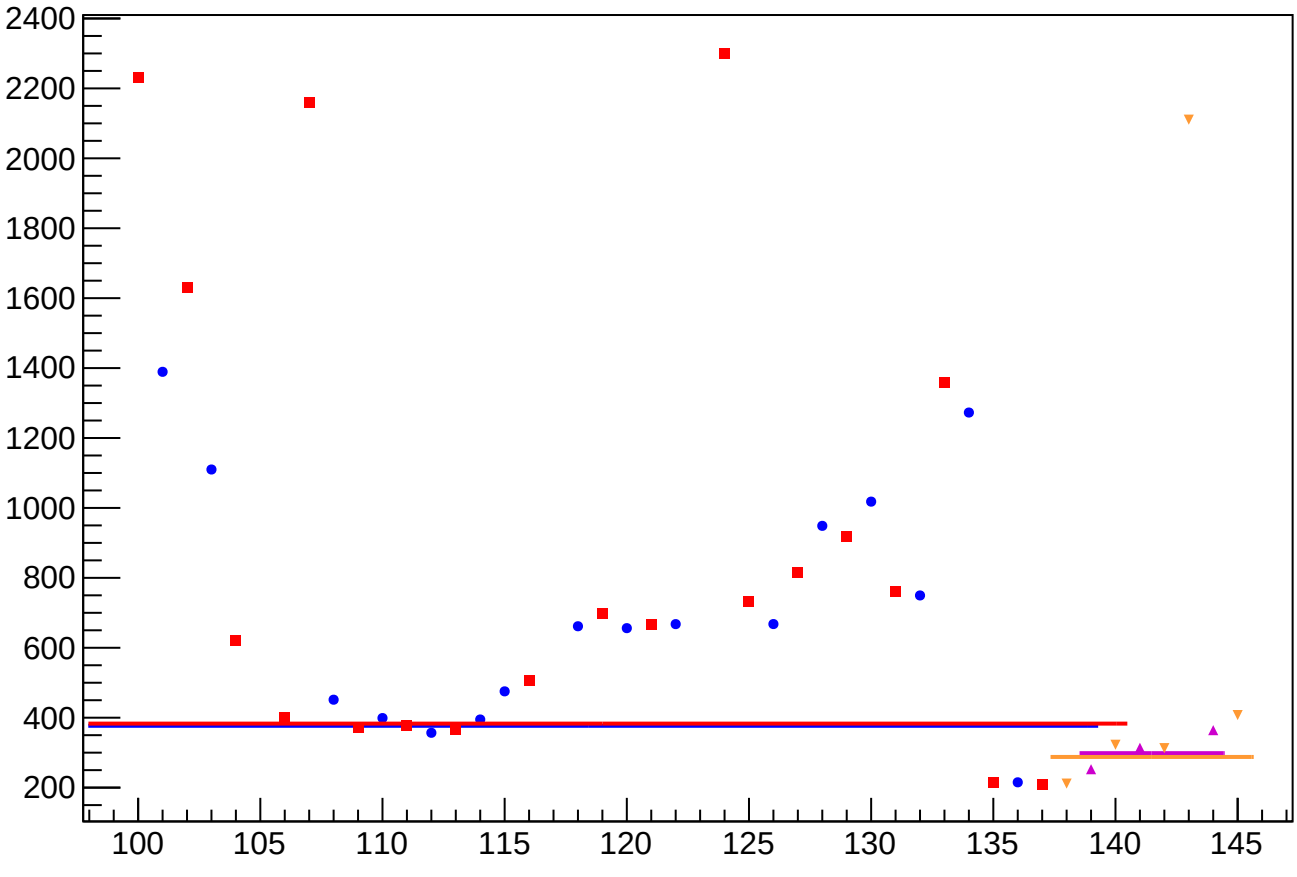
Right: -93.969+/-119.420 $\chi^2$/NDF: 38.3/34

In: -133.289+/-125.531 $\chi^2$/NDF:24.4/18

Out: 256.540+/-119.991 $\chi^2$/NDF:19.7/23

All: 70.417+/-86.739 $\chi^2$/NDF: 49.2/42

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: 287.731+/-0.120 $\chi^2$/NDF:1573329.6/4

Right Out: 383.074+/-0.120 $\chi^2$/NDF: 4054121.5/18

Left In: 298.554+/-0.133 $\chi^2$/NDF:114926.9/2

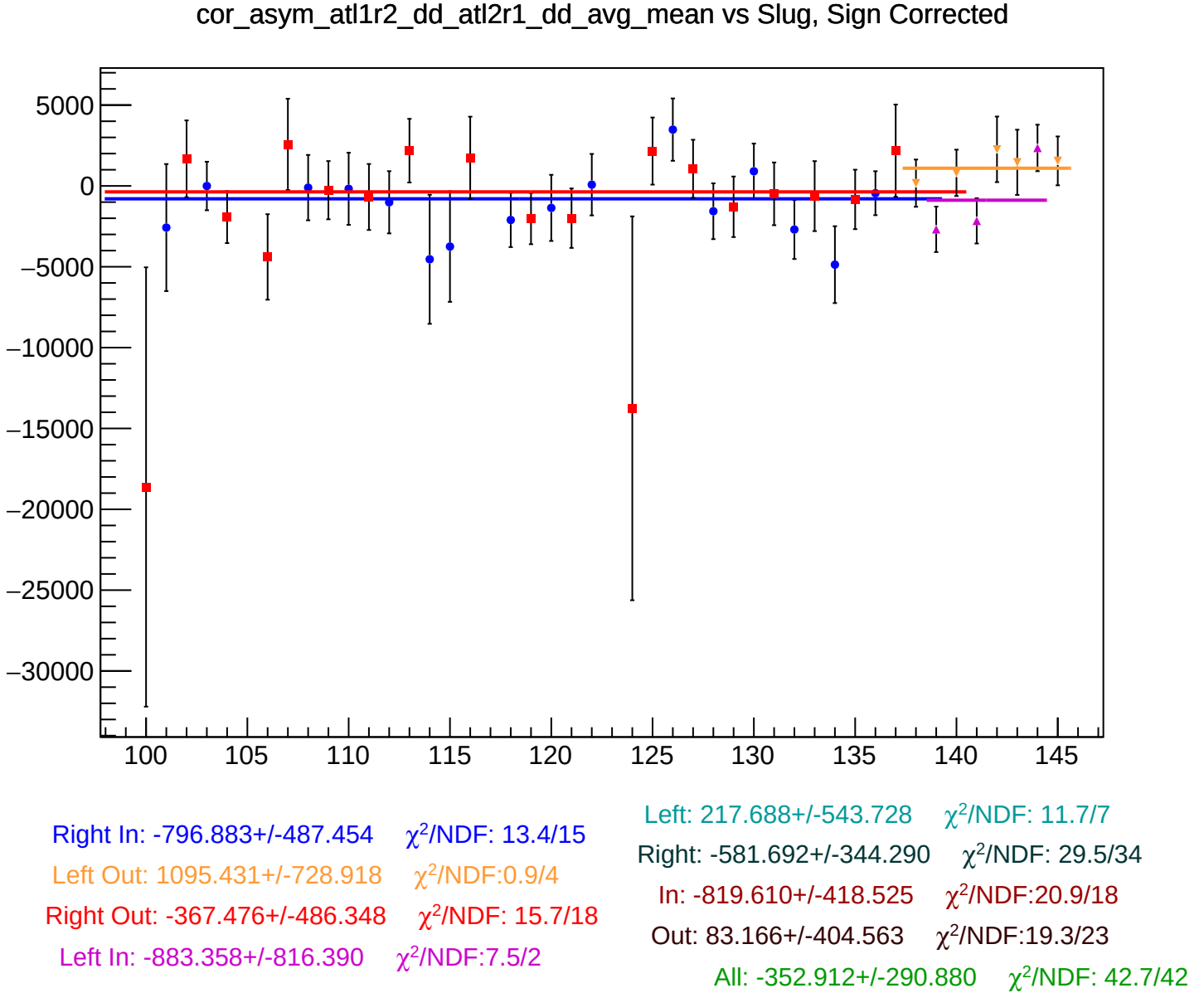
Left: 292.577+/-0.089 $\chi^2$/NDF: 1691894.5/7

Right: 379.958+/-0.084 $\chi^2$/NDF: 8245655.7/34

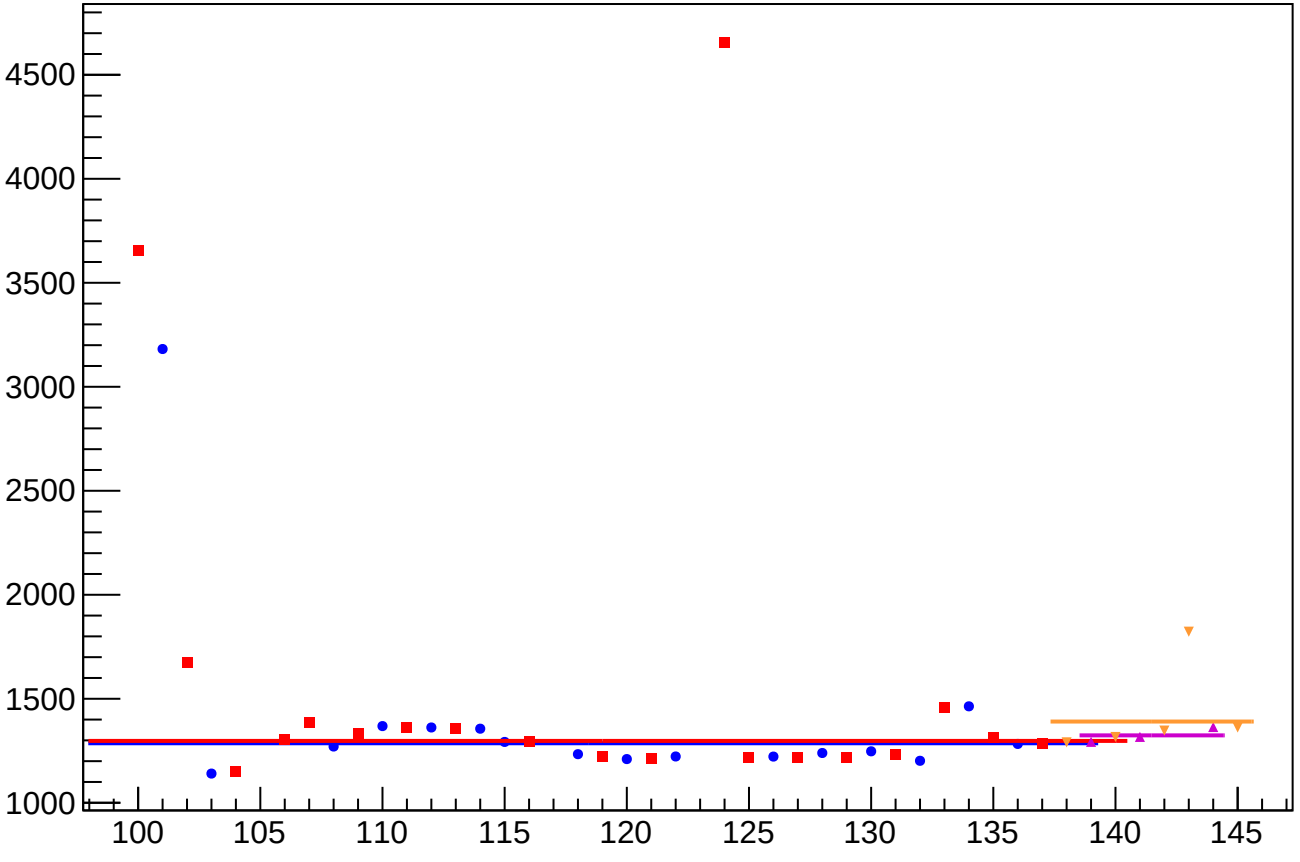
In: 342.186+/-0.089 $\chi^2$/NDF:4497315.5/18

Out: 335.469+/-0.085 $\chi^2$/NDF:5943131.6/23

All: 338.676+/-0.061 $\chi^2$/NDF: 10443440.0/42


cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -796.883+/-487.454 χ²/NDF: 13.4/15
Left Out: 1095.431+/-728.918 χ²/NDF:0.9/4
Right Out: -367.476+/-486.348 χ²/NDF: 15.7/18
Left In: -883.358+/-816.390 χ²/NDF:7.5/2
Left: 217.688+/-543.728 χ²/NDF: 11.7/7
Right: -581.692+/-344.290 χ²/NDF: 29.5/34
In: -819.610+/-418.525 χ²/NDF:20.9/18
Out: 83.166+/-404.563 χ²/NDF:19.3/23
All: -352.912+/-290.880 χ²/NDF: 42.7/42

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1390.491+/-0.515 $\chi^2$/NDF:108101.4/4

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1324.049+/-0.577 $\chi^2$/NDF:2596.7/2

Left: 1361.019+/-0.384 $\chi^2$/NDF: 118069.1/7

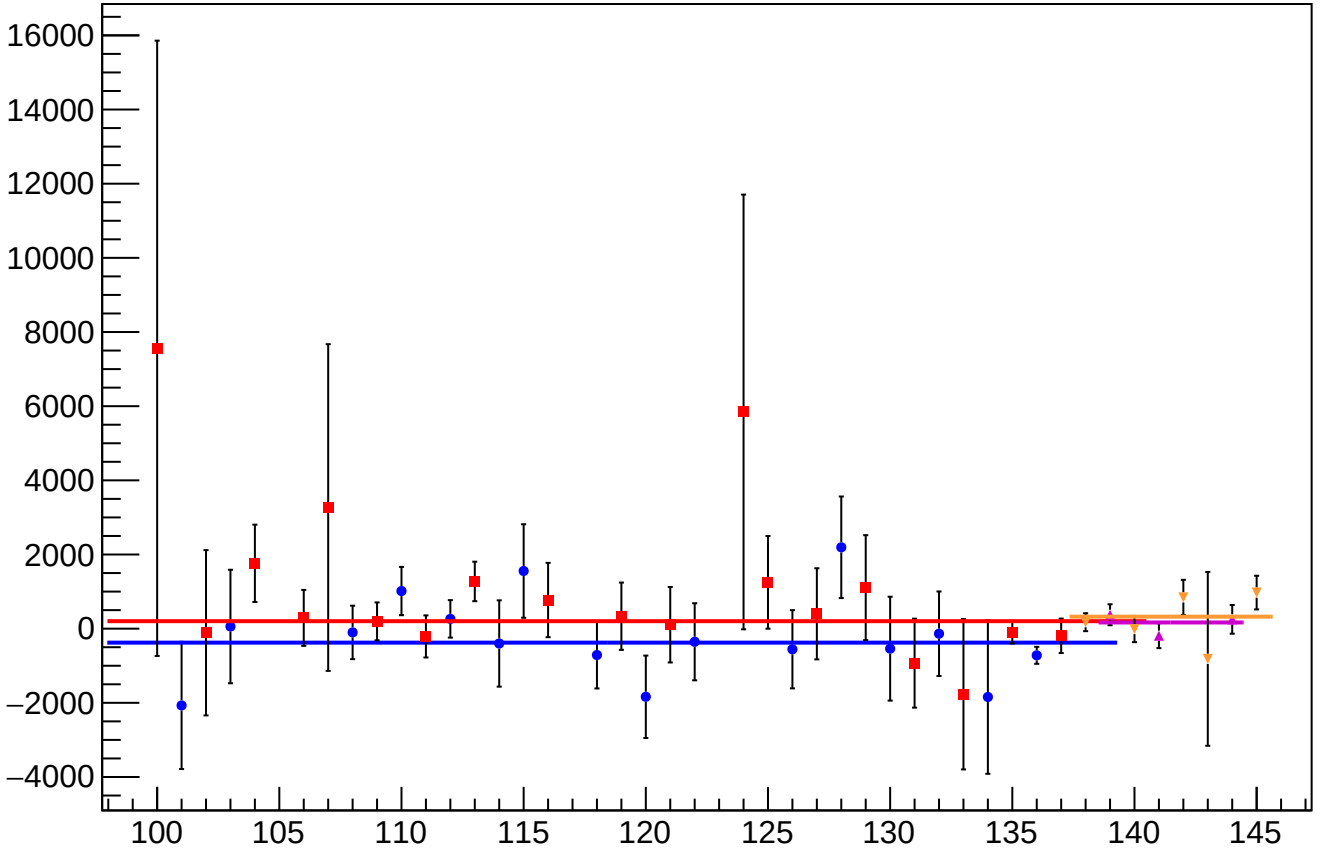
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1296.071+/-0.296 $\chi^2$/NDF:523911.3/18

Out: 1326.072+/-0.286 $\chi^2$/NDF:458417.7/23

All: 1311.580+/-0.206 $\chi^2$/NDF: 987641.6/42

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: 324.380+/-169.817 $\chi^2$/NDF:4.8/4

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 167.310+/-188.596 $\chi^2$/NDF:1.7/2

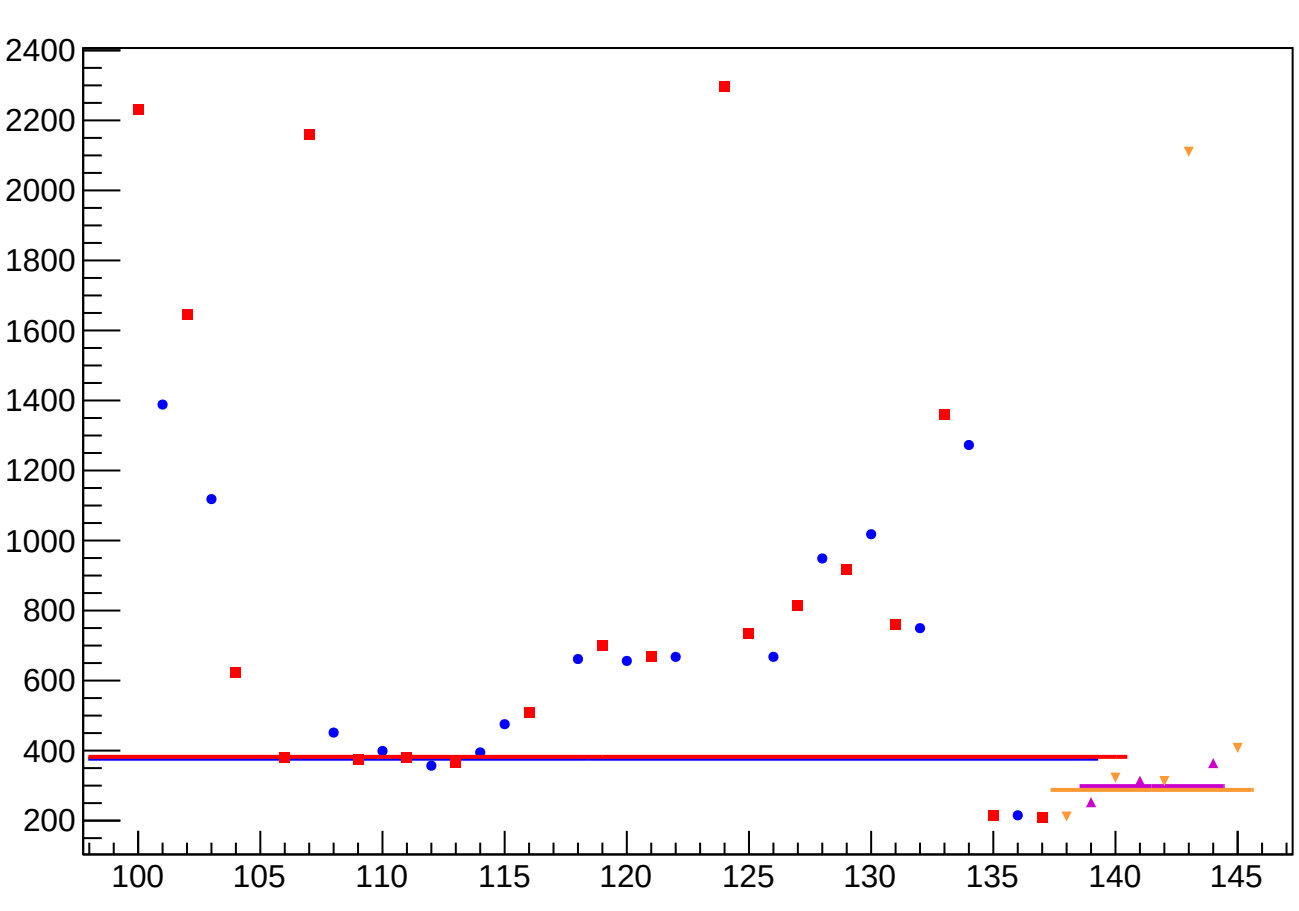
Left: 254.052+/-126.197 $\chi^2$/NDF: 6.9/7

Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: -135.694+/-125.539 $\chi^2$/NDF:24.3/18

Out: 263.103+/-119.923 $\chi^2$/NDF:19.1/23

All: 72.824+/-86.716 $\chi^2$/NDF: 48.6/42


asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs Slug, Sign Corrected
2400
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1600
1400
1200
1000
800
600
400
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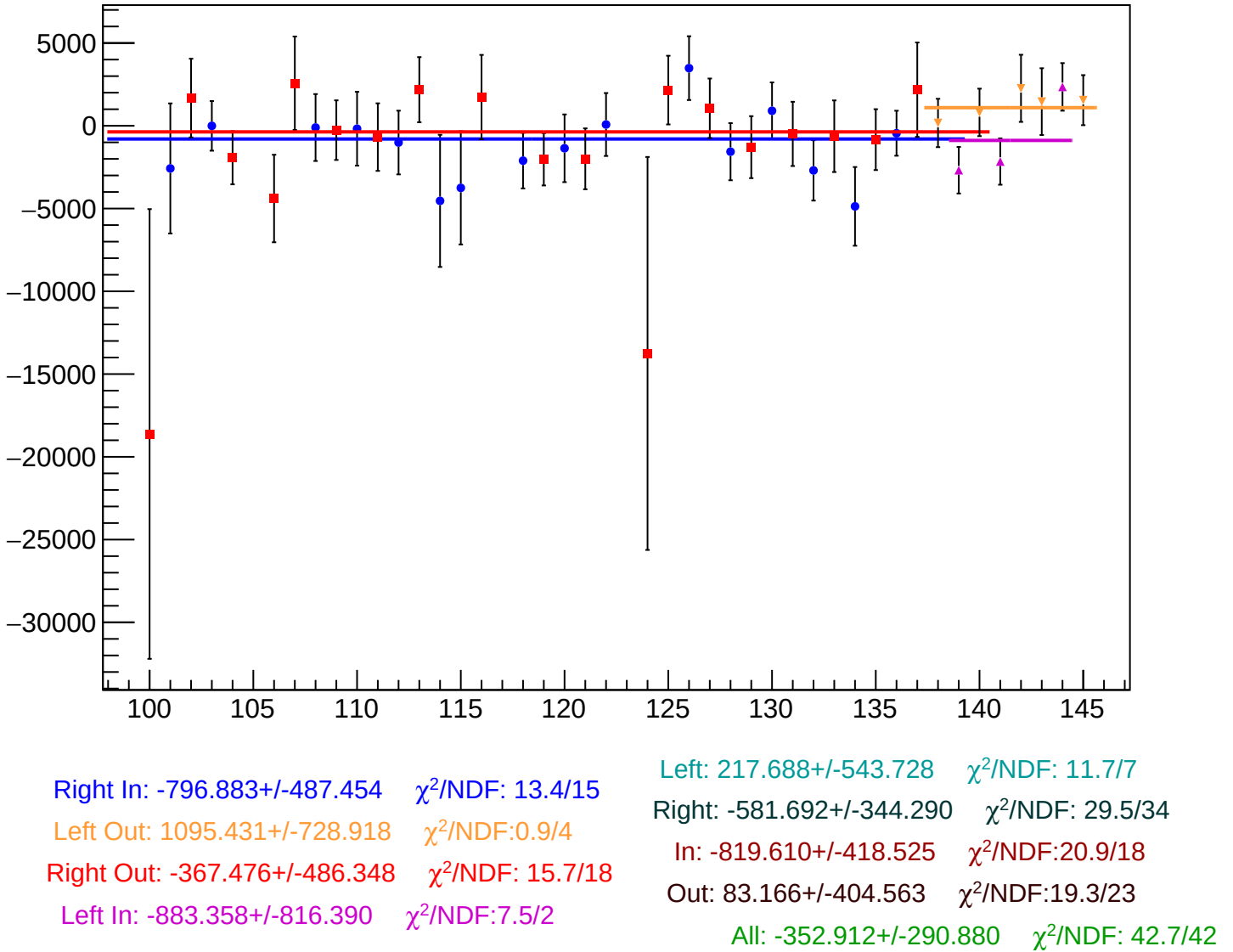
100
105
110
115
120
125
130
135
140
145
Right In: 376.884+/-0.119 χ²/NDF: 4193328.0/15
Left Out: 287.743+/-0.120 χ²/NDF:1573334.3/4
Right Out: 382.136+/-0.120 χ²/NDF: 4059600.2/18
Left In: 298.554+/-0.133 χ²/NDF:114906.5/2
Left: 292.584+/-0.089 χ²/NDF: 1691869.8/7
Right: 379.492+/-0.084 χ²/NDF: 8253896.4/34
In: 342.177+/-0.089 χ²/NDF:4500369.8/18
Out: 335.062+/-0.085 χ²/NDF:5942702.4/23
All: 338.457+/-0.061 χ²/NDF: 10446430.6/42


eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
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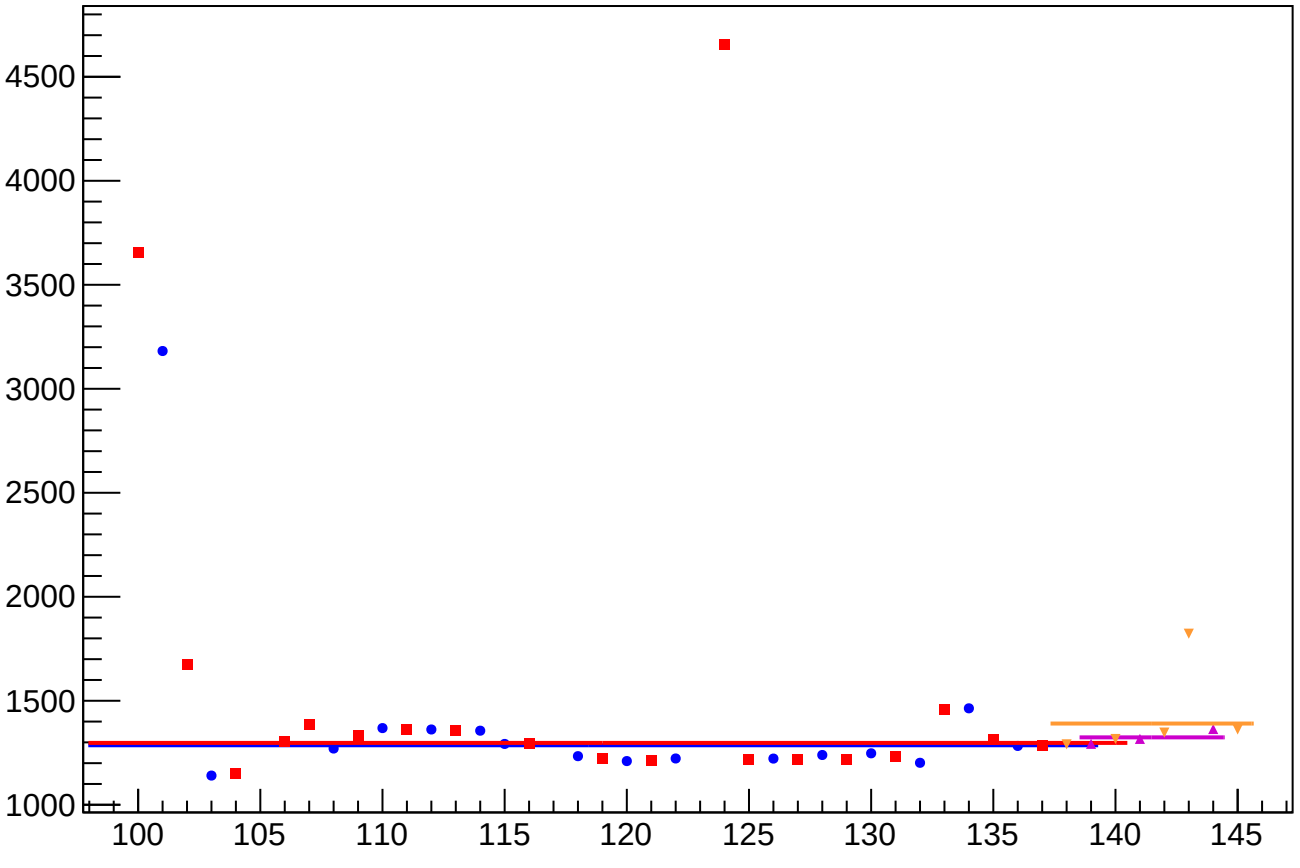
140
145
Right In: -796.883+/-487.454 χ²/NDF: 13.4/15
Left Out: 1095.431+/-728.918 χ²/NDF:0.9/4
Right Out: -367.476+/-486.348 χ²/NDF: 15.7/18
Left In: -883.358+/-816.390 χ²/NDF:7.5/2
Left: 217.688+/-543.728 χ²/NDF: 11.7/7
Right: -581.692+/-344.290 χ²/NDF: 29.5/34
In: -819.610+/-418.525 χ²/NDF:20.9/18
Out: 83.166+/-404.563 χ²/NDF:19.3/23
All: -352.912+/-290.880 χ²/NDF: 42.7/42




Right In: 1286.097+/-0.345 $\chi^2$/NDF: 518128.4/15

Left Out: 1390.491+/-0.515 $\chi^2$/NDF:108101.4/4

Right Out: 1297.394+/-0.344 $\chi^2$/NDF: 327741.7/18

Left In: 1324.049+/-0.577 $\chi^2$/NDF:2596.7/2

Left: 1361.019+/-0.384 $\chi^2$/NDF: 118069.1/7

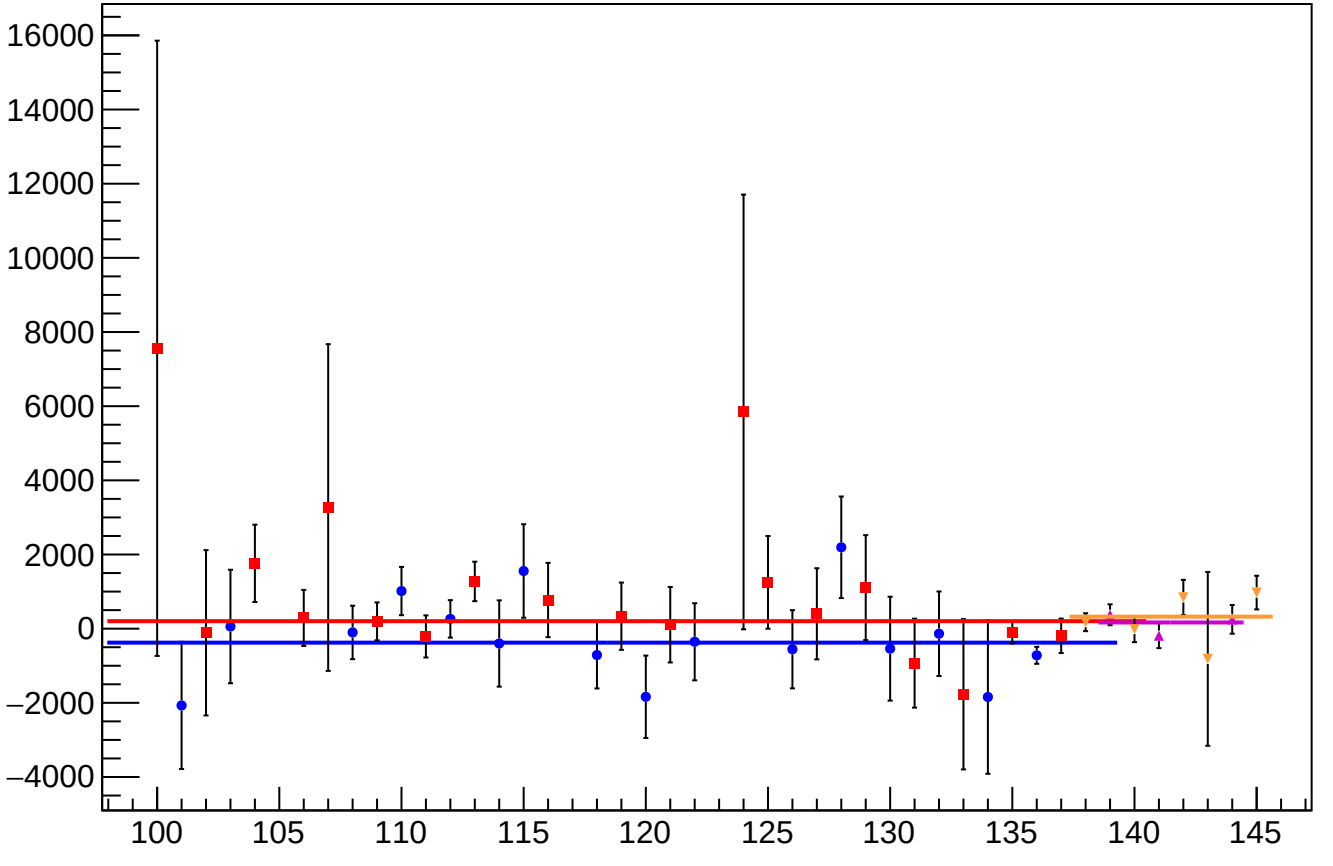
Right: 1291.758+/-0.243 $\chi^2$/NDF: 846408.4/34

In: 1296.071+/-0.296 $\chi^2$/NDF:523911.3/18

Out: 1326.072+/-0.286 $\chi^2$/NDF:458417.7/23

All: 1311.580+/-0.206 $\chi^2$/NDF: 987641.6/42

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: 324.380+/-169.817 $\chi^2$/NDF:4.8/4

Right Out: 202.144+/-169.377 $\chi^2$/NDF: 14.0/18

Left In: 167.310+/-188.596 $\chi^2$/NDF:1.7/2

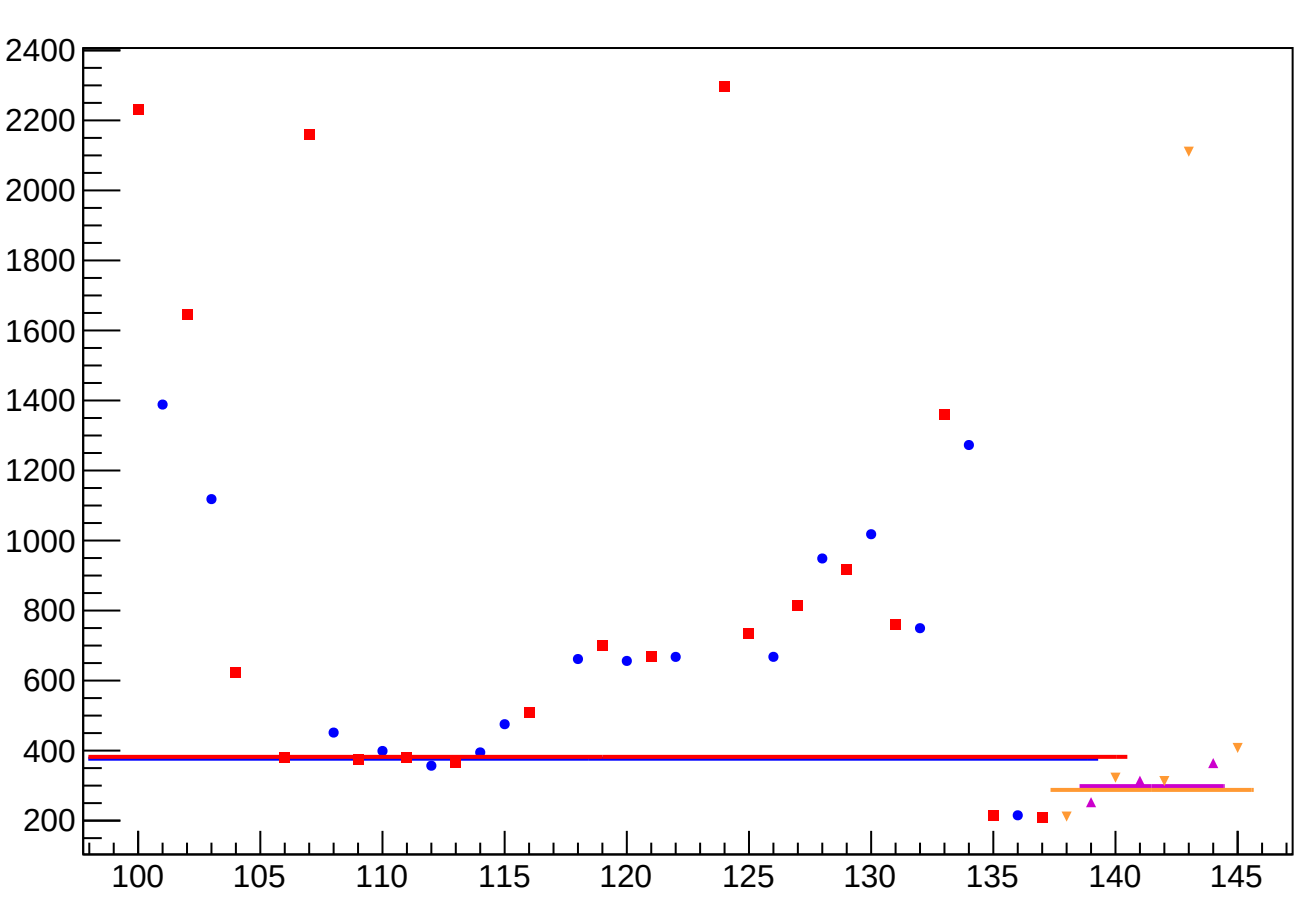
Left: 254.052+/-126.197 $\chi^2$/NDF: 6.9/7

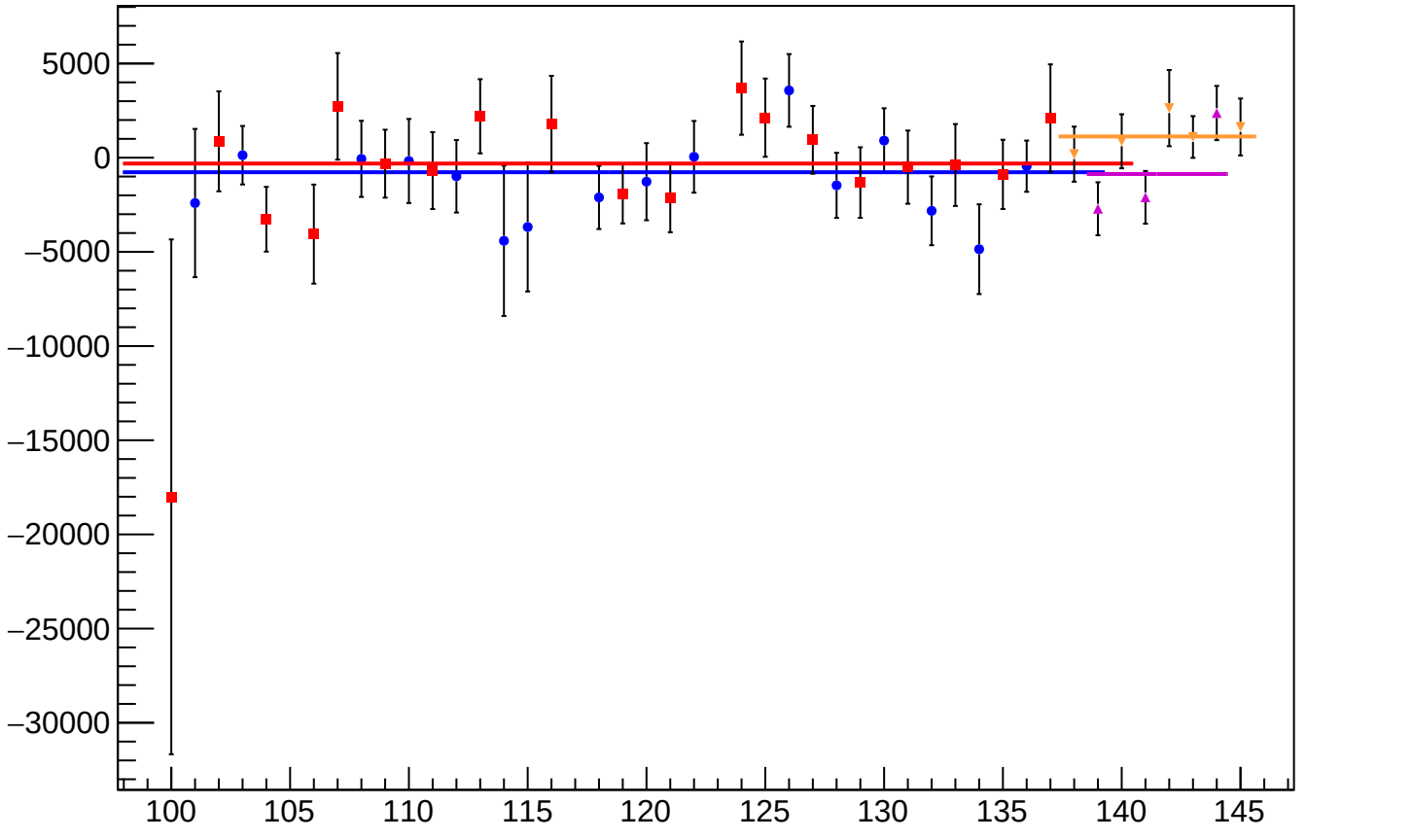
Right: -89.292+/-119.358 $\chi^2$/NDF: 37.9/34

In: -135.694+/-125.539 $\chi^2$/NDF:24.3/18

Out: 263.103+/-119.923 $\chi^2$/NDF:19.1/23

All: 72.824+/-86.716 $\chi^2$/NDF: 48.6/42


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
100
105
110
115
120
125
130
135
140
145
Right In: 376.884+/-0.119 χ²/NDF: 4193328.0/15
Left Out: 287.743+/-0.120 χ²/NDF:1573334.3/4
Right Out: 382.136+/-0.120 χ²/NDF: 4059600.2/18
Left In: 298.554+/-0.133 χ²/NDF:114906.5/2
Left: 292.584+/-0.089 χ²/NDF: 1691869.8/7
Right: 379.492+/-0.084 χ²/NDF: 8253896.4/34
In: 342.177+/-0.089 χ²/NDF:4500369.8/18
Out: 335.062+/-0.085 χ²/NDF:5942702.4/23
All: 338.457+/-0.061 χ²/NDF: 10446430.6/42




Right In: -771.499+/-489.602 $\chi^2$/NDF: 13.6/15

Left Out: 1127.187+/-638.641 $\chi^2$/NDF:1.1/4

Right Out: -311.418+/-482.642 $\chi^2$/NDF: 17.9/18

Left In: -866.349+/-817.034 $\chi^2$/NDF:7.6/2

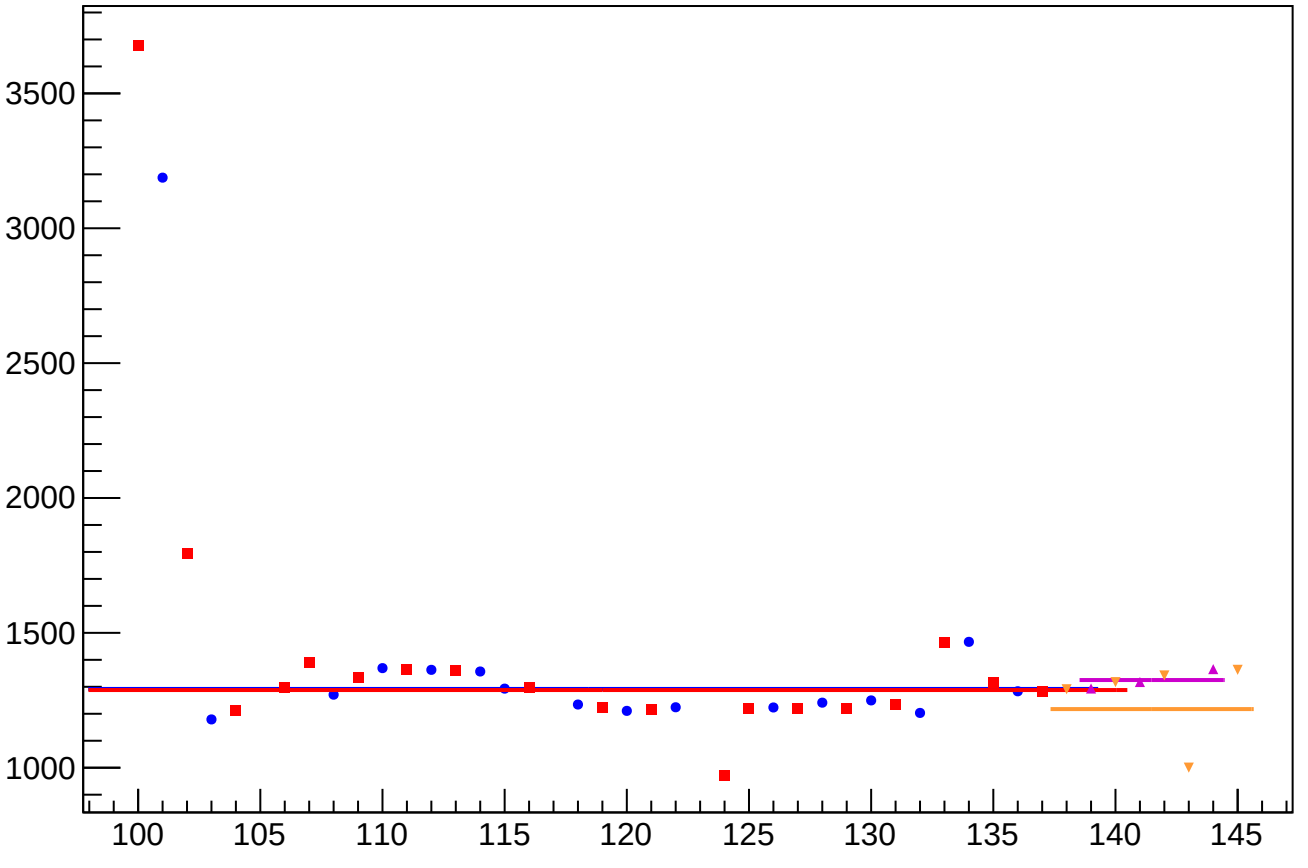
Left: 371.113+/-503.165 $\chi^2$/NDF: 12.4/7

Right: -538.165+/-343.714 $\chi^2$/NDF: 32.0/34

In: -796.560+/-419.971 $\chi^2$/NDF:21.2/18

Out: 211.539+/-385.052 $\chi^2$/NDF:22.3/23

All: -248.864+/-283.816 $\chi^2$/NDF: 46.6/42




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.3/15

Left Out: 1217.380+/-0.452 $\chi^2$/NDF:117768.6/4

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209208.8/18

Left In: 1325.081+/-0.578 $\chi^2$/NDF:2633.4/2

Left: 1258.227+/-0.356 $\chi^2$/NDF: 141974.3/7

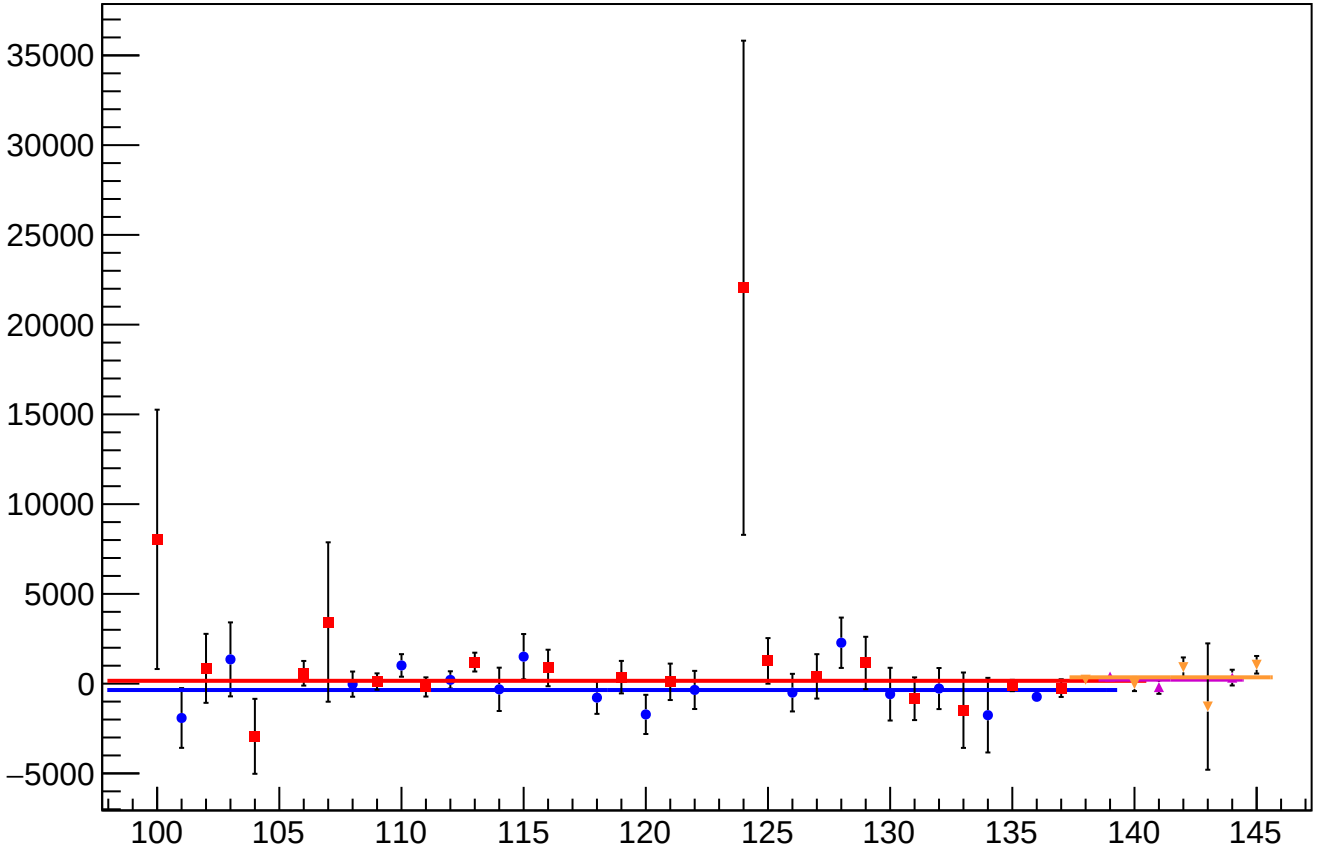
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.5/34

In: 1300.768+/-0.297 $\chi^2$/NDF:514446.6/18

Out: 1262.321+/-0.272 $\chi^2$/NDF:342537.7/23

All: 1279.880+/-0.201 $\chi^2$/NDF: 866091.0/42

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: 352.458+/-179.843 $\chi^2$/NDF:4.5/4

Right Out: 157.924+/-169.665 $\chi^2$/NDF: 15.8/18

Left In: 221.121+/-199.020 $\chi^2$/NDF:1.6/2

Left: 293.421+/-133.434 $\chi^2$/NDF: 6.4/7

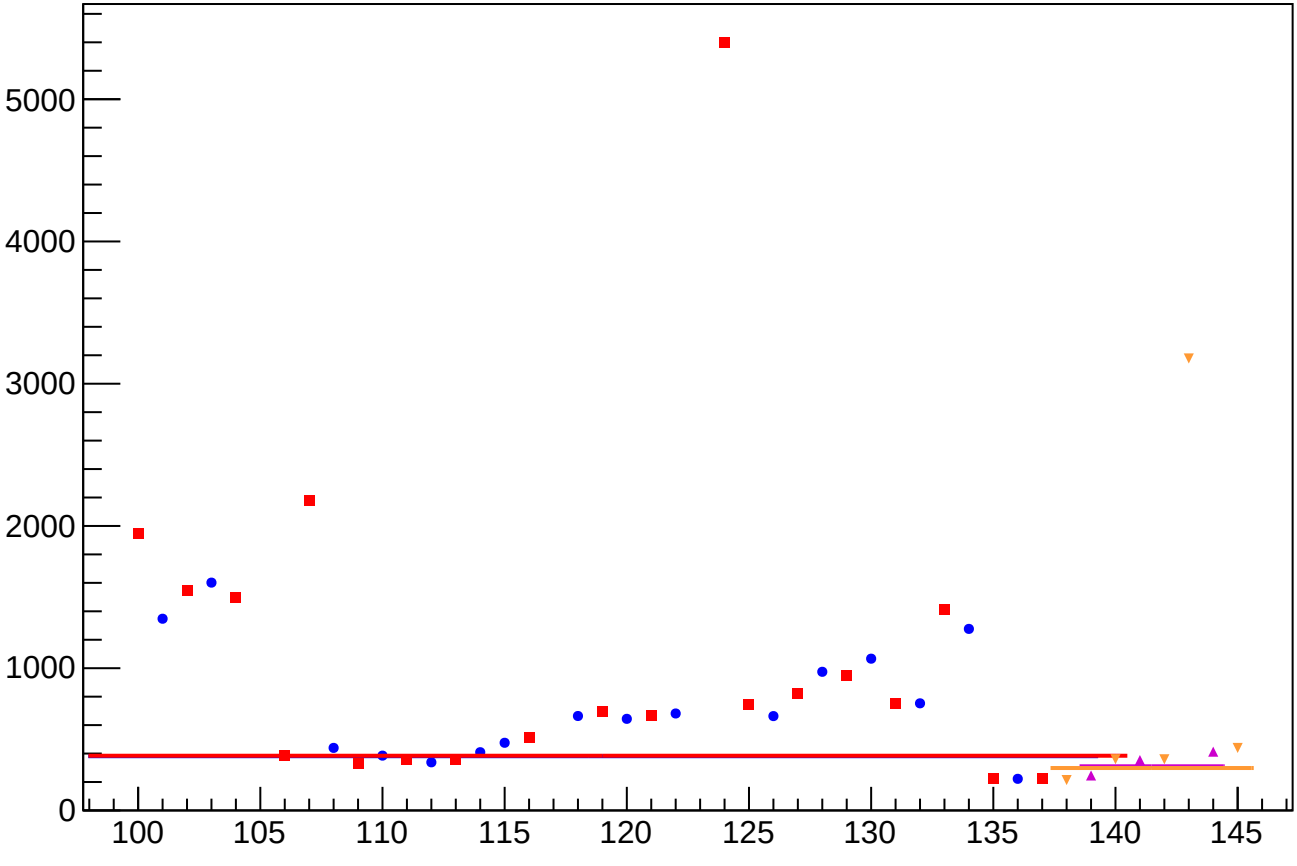
Right: -98.189+/-120.079 $\chi^2$/NDF: 38.8/34

In: -112.147+/-129.249 $\chi^2$/NDF:24.9/18

Out: 249.530+/-123.413 $\chi^2$/NDF:21.0/23

All: 77.042+/-89.258 $\chi^2$/NDF: 50.0/42

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: 298.312+/-0.127 $\chi^2$/NDF:1821050.2/4

Right Out: 384.651+/-0.120 $\chi^2$/NDF: 4560208.6/18

Left In: 310.495+/-0.141 $\chi^2$/NDF:245603.0/2

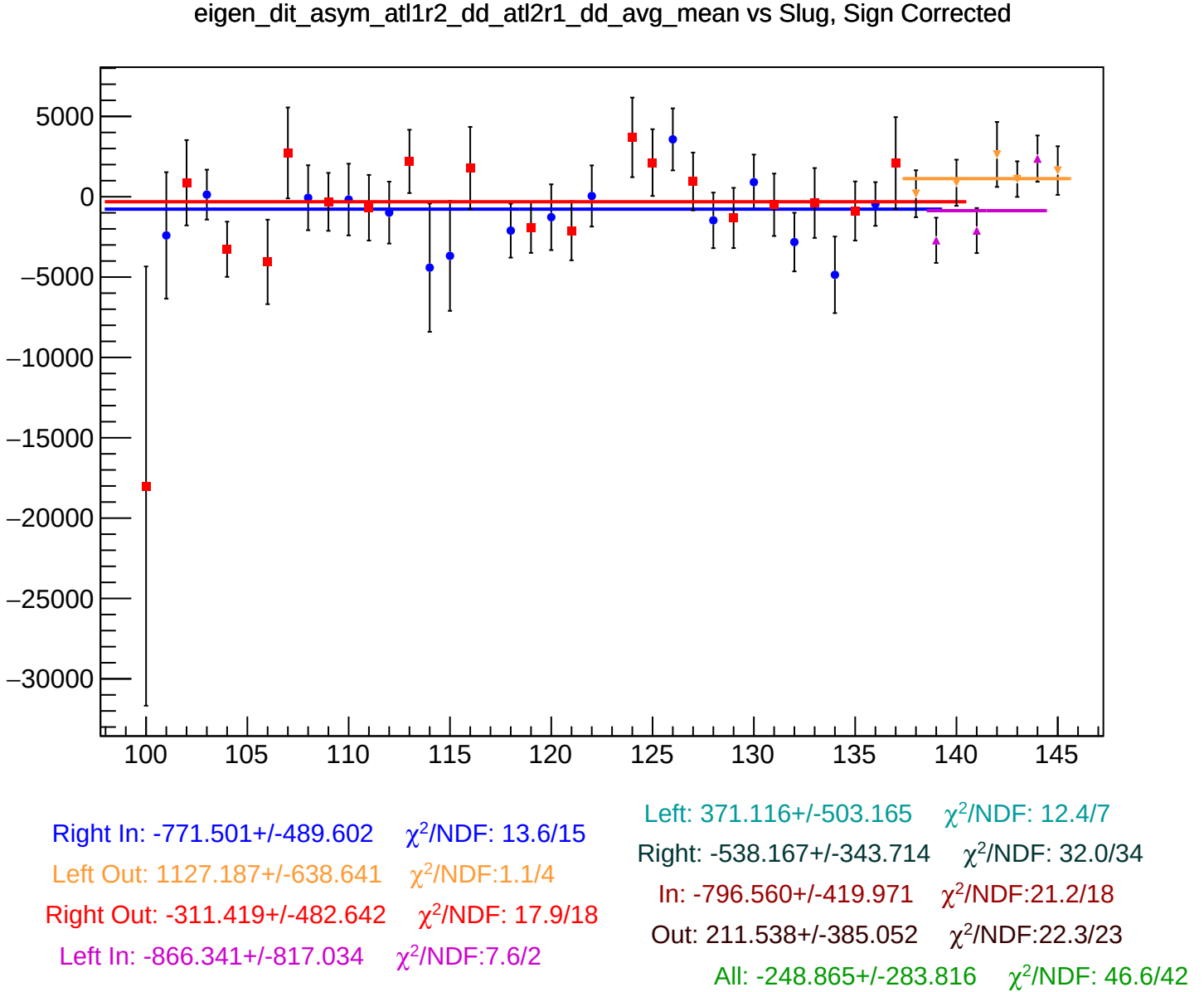
Left: 303.788+/-0.094 $\chi^2$/NDF: 2070779.2/7

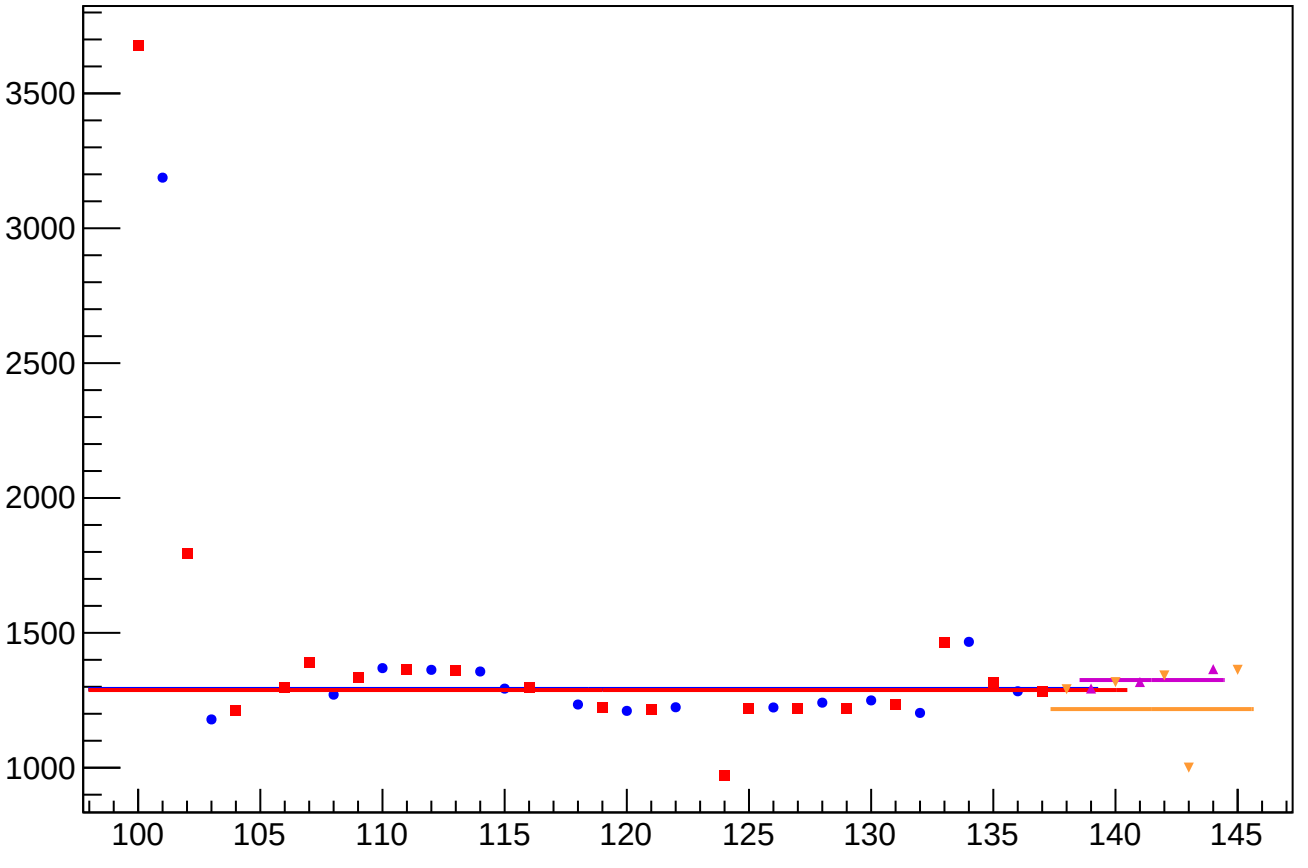
Right: 383.003+/-0.085 $\chi^2$/NDF: 8878509.2/34

In: 351.466+/-0.091 $\chi^2$/NDF:4710104.3/18

Out: 343.993+/-0.087 $\chi^2$/NDF:6625147.1/23

All: 347.557+/-0.063 $\chi^2$/NDF: 11338748.2/42


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -771.501+/-489.602 χ²/NDF: 13.6/15
Left Out: 1127.187+/-638.641 χ²/NDF:1.1/4
Right Out: -311.419+/-482.642 χ²/NDF: 17.9/18
Left In: -866.341+/-817.034 χ²/NDF:7.6/2
Left: 371.116+/-503.165 χ²/NDF: 12.4/7
Right: -538.167+/-343.714 χ²/NDF: 32.0/34
In: -796.560+/-419.971 χ²/NDF:21.2/18
Out: 211.538+/-385.052 χ²/NDF:22.3/23
All: -248.865+/-283.816 χ²/NDF: 46.6/42




Right In: 1292.038+/-0.346 $\chi^2$/NDF: 509406.2/15

Left Out: 1217.380+/-0.452 $\chi^2$/NDF:117767.9/4

Right Out: 1287.988+/-0.341 $\chi^2$/NDF: 209209.1/18

Left In: 1325.081+/-0.578 $\chi^2$/NDF:2633.4/2

Left: 1258.227+/-0.356 $\chi^2$/NDF: 141973.4/7

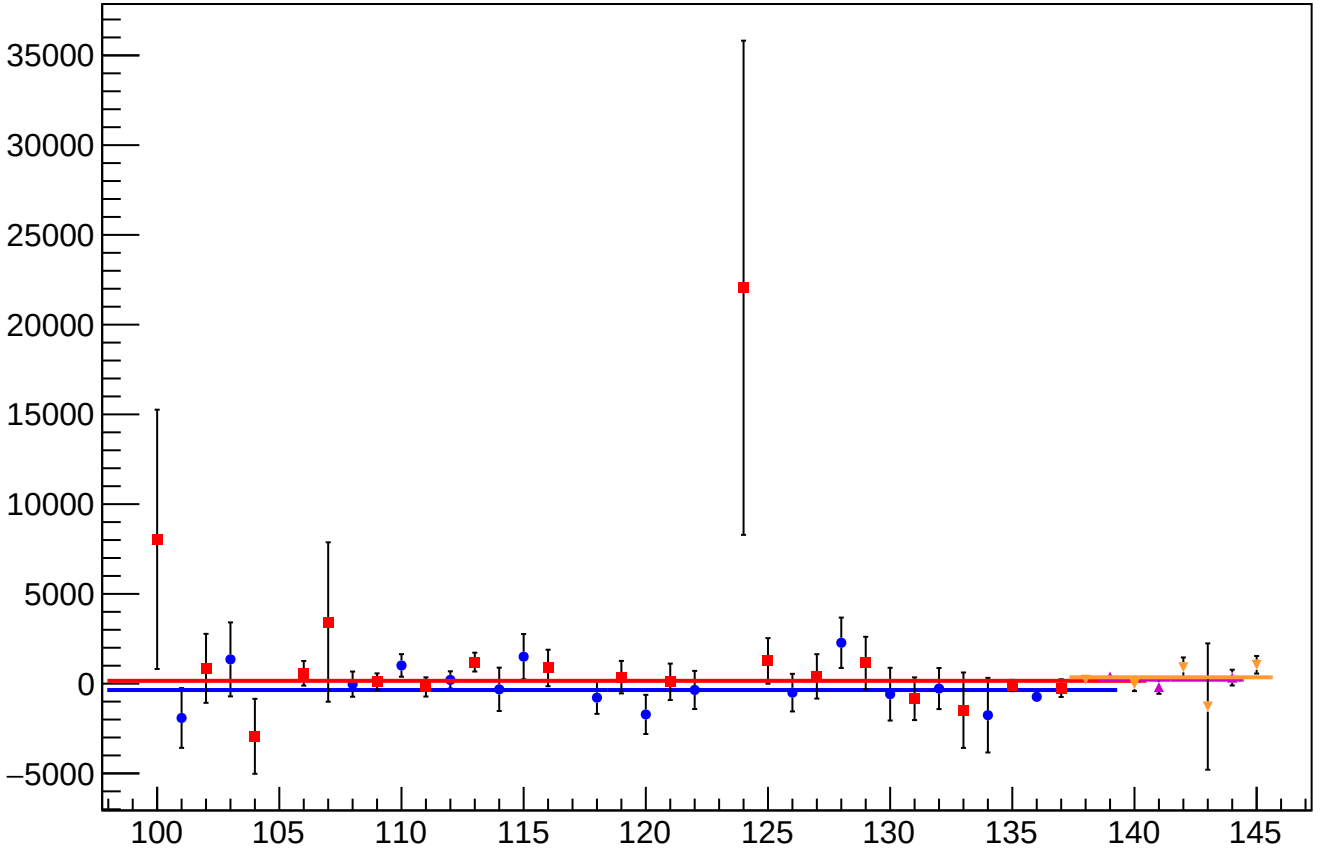
Right: 1289.984+/-0.243 $\chi^2$/NDF: 718684.7/34

In: 1300.768+/-0.297 $\chi^2$/NDF:514446.6/18

Out: 1262.321+/-0.272 $\chi^2$/NDF:342537.1/23

All: 1279.880+/-0.201 $\chi^2$/NDF: 866090.2/42

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: 352.476+/-179.850 $\chi^2$/NDF:4.5/4

Right Out: 157.929+/-169.667 $\chi^2$/NDF: 15.8/18

Left In: 221.125+/-199.027 $\chi^2$/NDF:1.6/2

Left: 293.432+/-133.439 $\chi^2$/NDF: 6.4/7

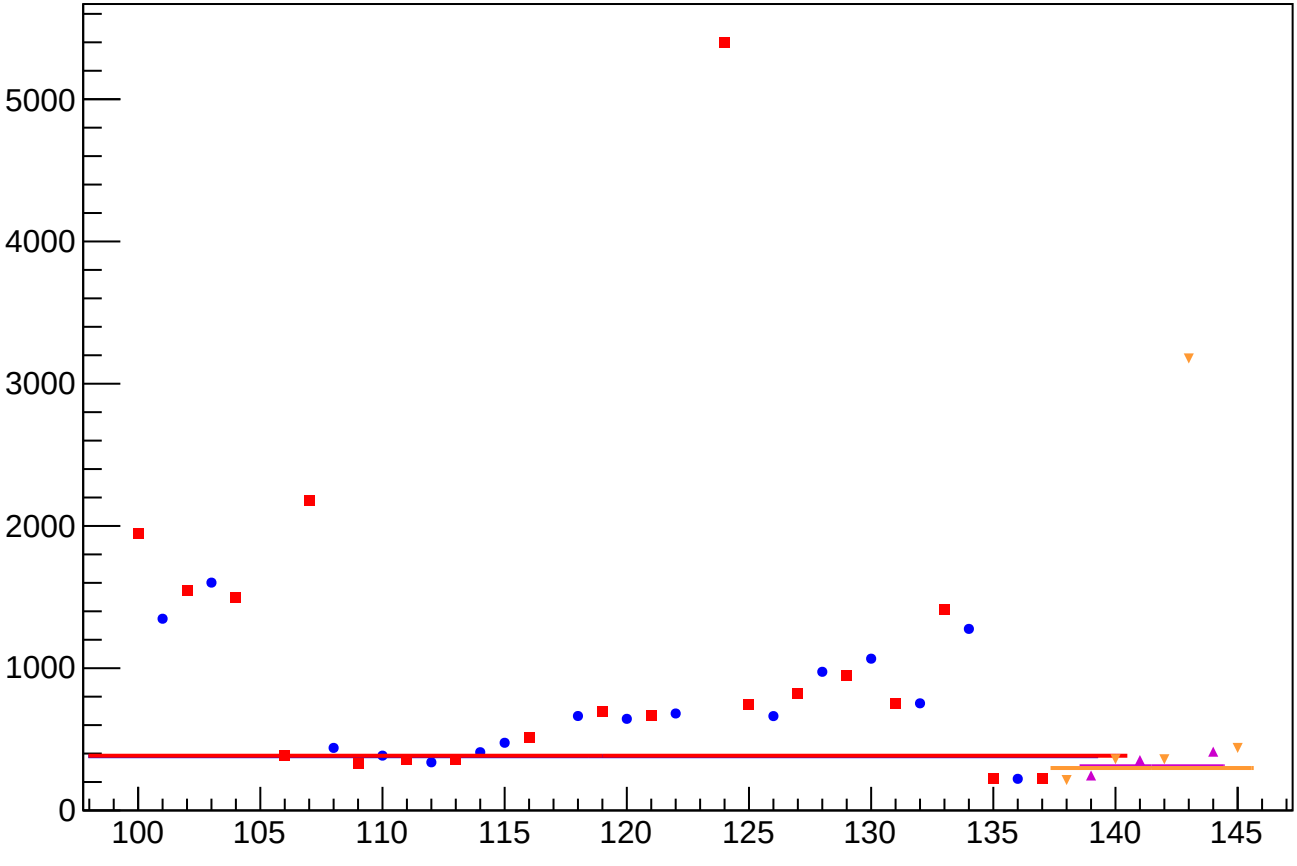
Right: -98.185+/-120.081 $\chi^2$/NDF: 38.8/34

In: -112.150+/-129.253 $\chi^2$/NDF:24.9/18

Out: 249.539+/-123.416 $\chi^2$/NDF:21.0/23

All: 77.046+/-89.260 $\chi^2$/NDF: 50.0/42

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: 298.325+/-0.127 $\chi^2$/NDF:1820952.9/4

Right Out: 384.658+/-0.120 $\chi^2$/NDF: 4560068.3/18

Left In: 310.509+/-0.141 $\chi^2$/NDF:245546.3/2

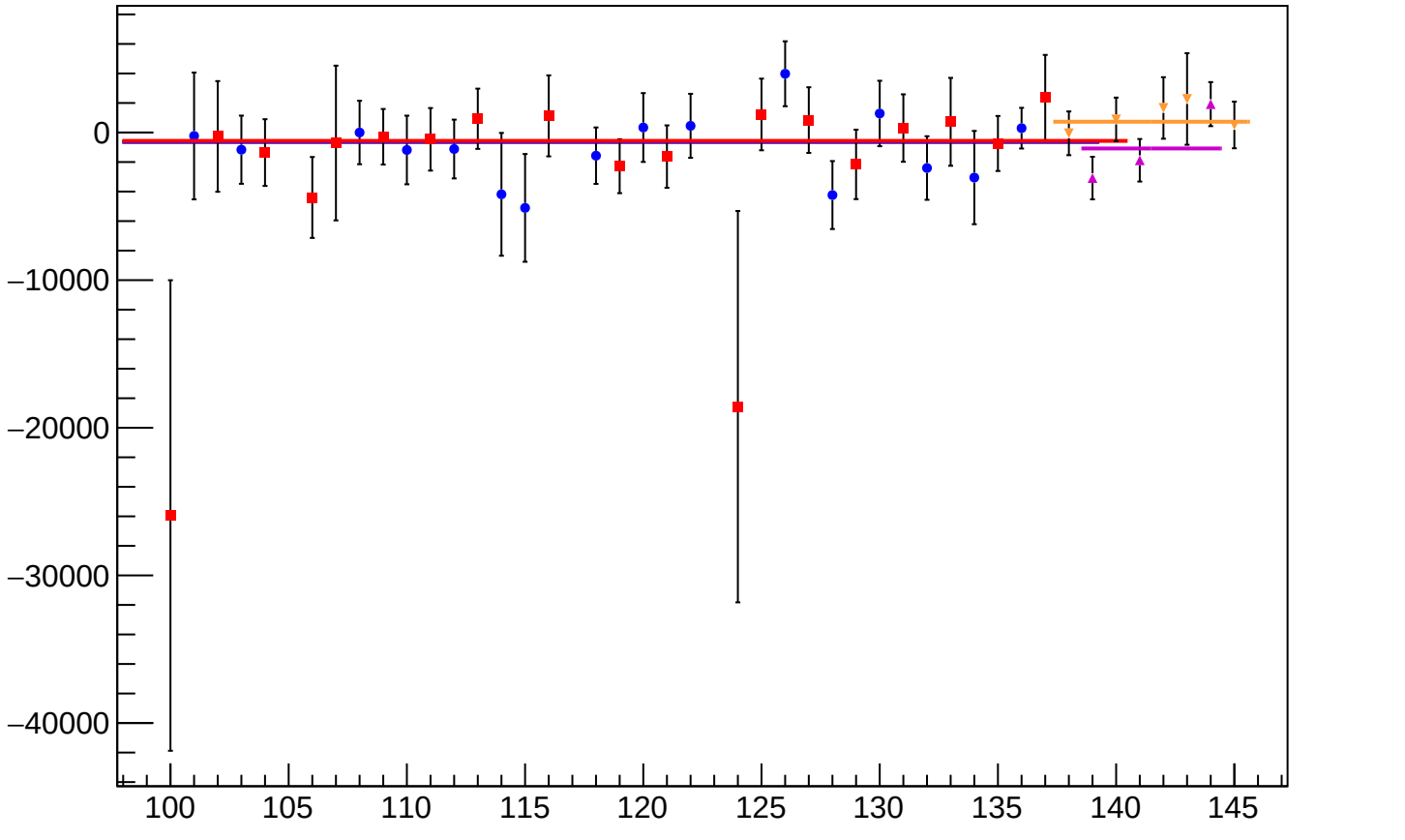
Left: 303.802+/-0.094 $\chi^2$/NDF: 2070624.6/7

Right: 383.012+/-0.085 $\chi^2$/NDF: 8878183.1/34

In: 351.478+/-0.091 $\chi^2$/NDF:4709841.4/18

Out: 344.005+/-0.087 $\chi^2$/NDF:6624863.5/23

All: 347.569+/-0.063 $\chi^2$/NDF: 11338201.8/42




Right In: -640.824+/-564.366 $\chi^2$/NDF: 12.5/15

Left Out: 731.111+/-778.962 $\chi^2$/NDF:0.8/4

Right Out: -567.254+/-566.774 $\chi^2$/NDF: 11.3/18

Left In: -1080.724+/-841.469 $\chi^2$/NDF:6.3/2

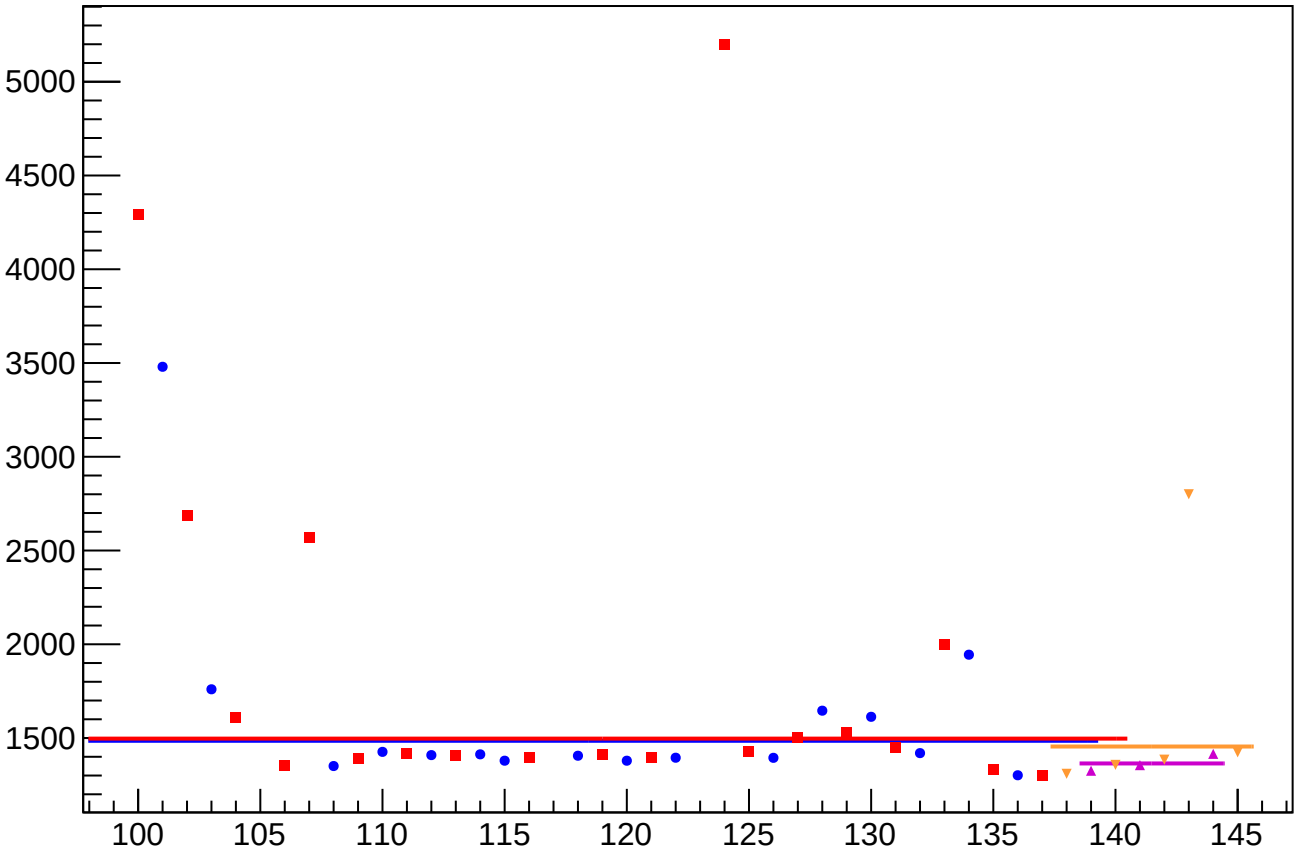
Left: -105.020+/-571.631 $\chi^2$/NDF: 9.5/7

Right: -604.196+/-399.916 $\chi^2$/NDF: 23.8/34

In: -777.309+/-468.708 $\chi^2$/NDF:19.0/18

Out: -117.824+/-458.299 $\chi^2$/NDF:13.9/23

All: -440.162+/-327.685 $\chi^2$/NDF: 33.9/42




Right In: 1485.370+/-0.399 $\chi^2$/NDF: 584470.1/15

Left Out: 1454.719+/-0.551 $\chi^2$/NDF:407025.6/4

Right Out: 1496.865+/-0.401 $\chi^2$/NDF: 623292.7/18

Left In: 1364.434+/-0.595 $\chi^2$/NDF:3888.0/2

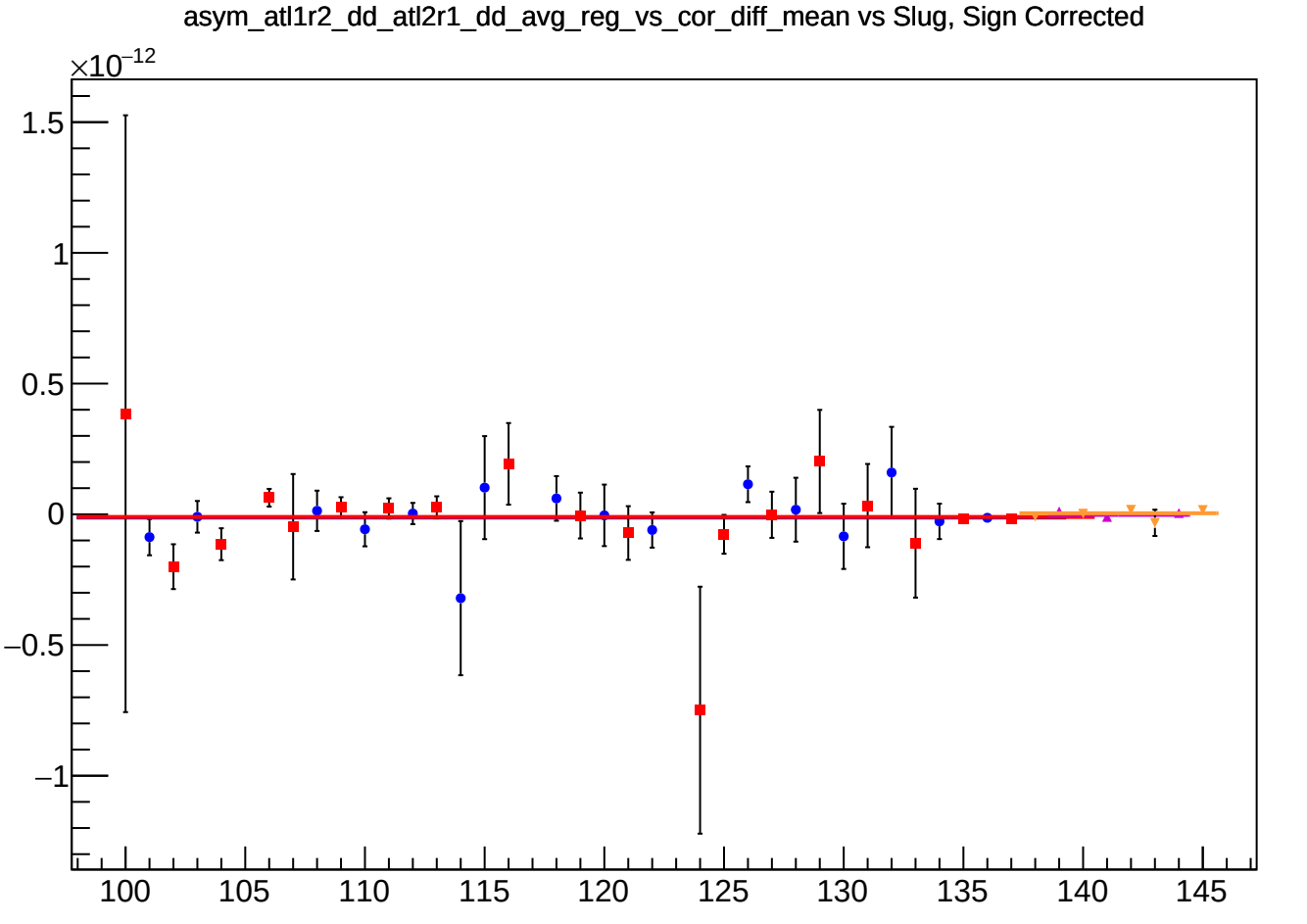
Left: 1413.054+/-0.404 $\chi^2$/NDF: 423312.3/7

Right: 1491.093+/-0.283 $\chi^2$/NDF: 1208175.9/34

In: 1447.848+/-0.331 $\chi^2$/NDF:616851.7/18

Out: 1482.276+/-0.324 $\chi^2$/NDF:1034146.6/23

All: 1465.449+/-0.232 $\chi^2$/NDF: 1656514.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.0/2

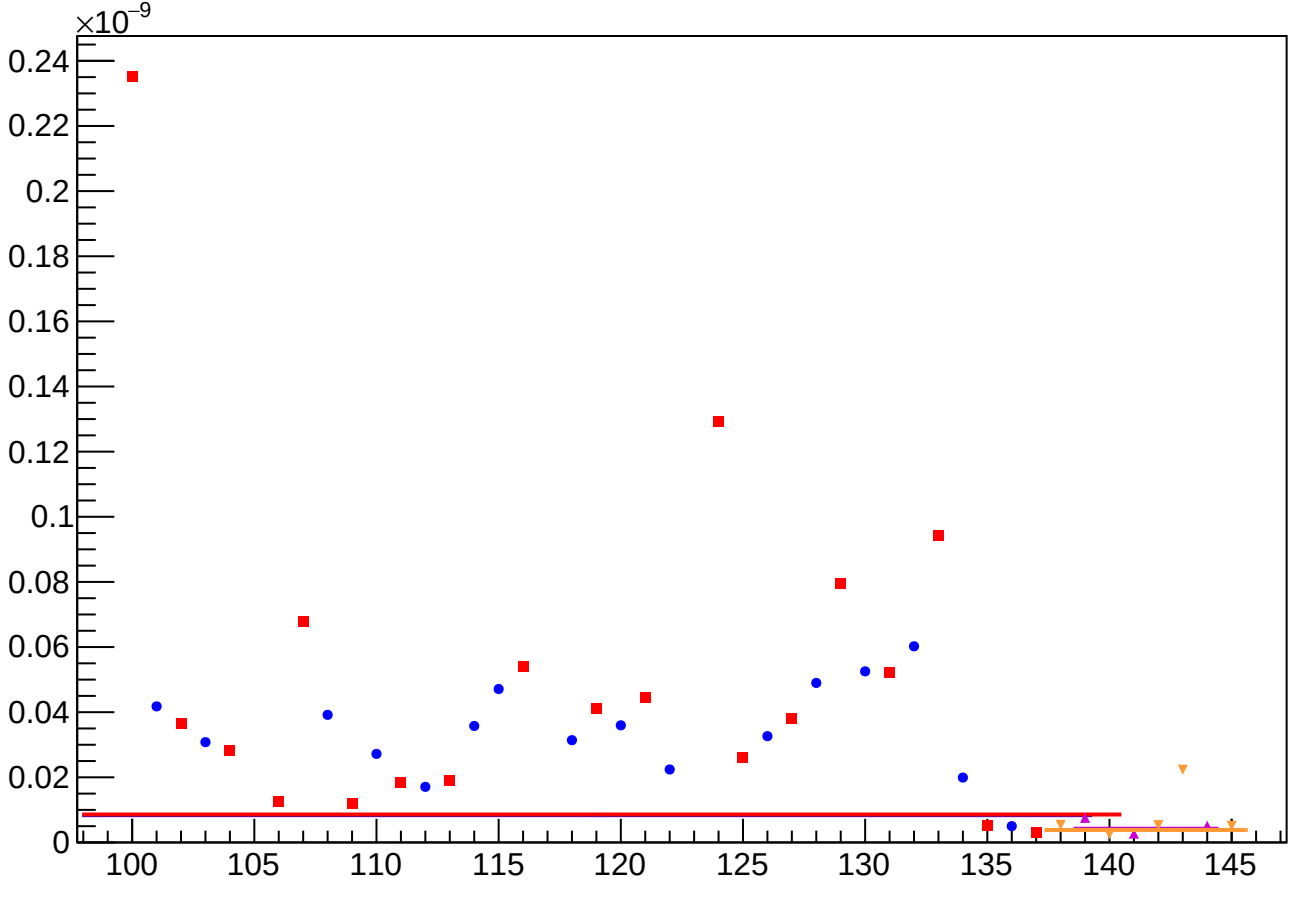
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.3/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:14.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:30.9/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3059657.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:562090.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3348571.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:352869.2/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 923971.2/7

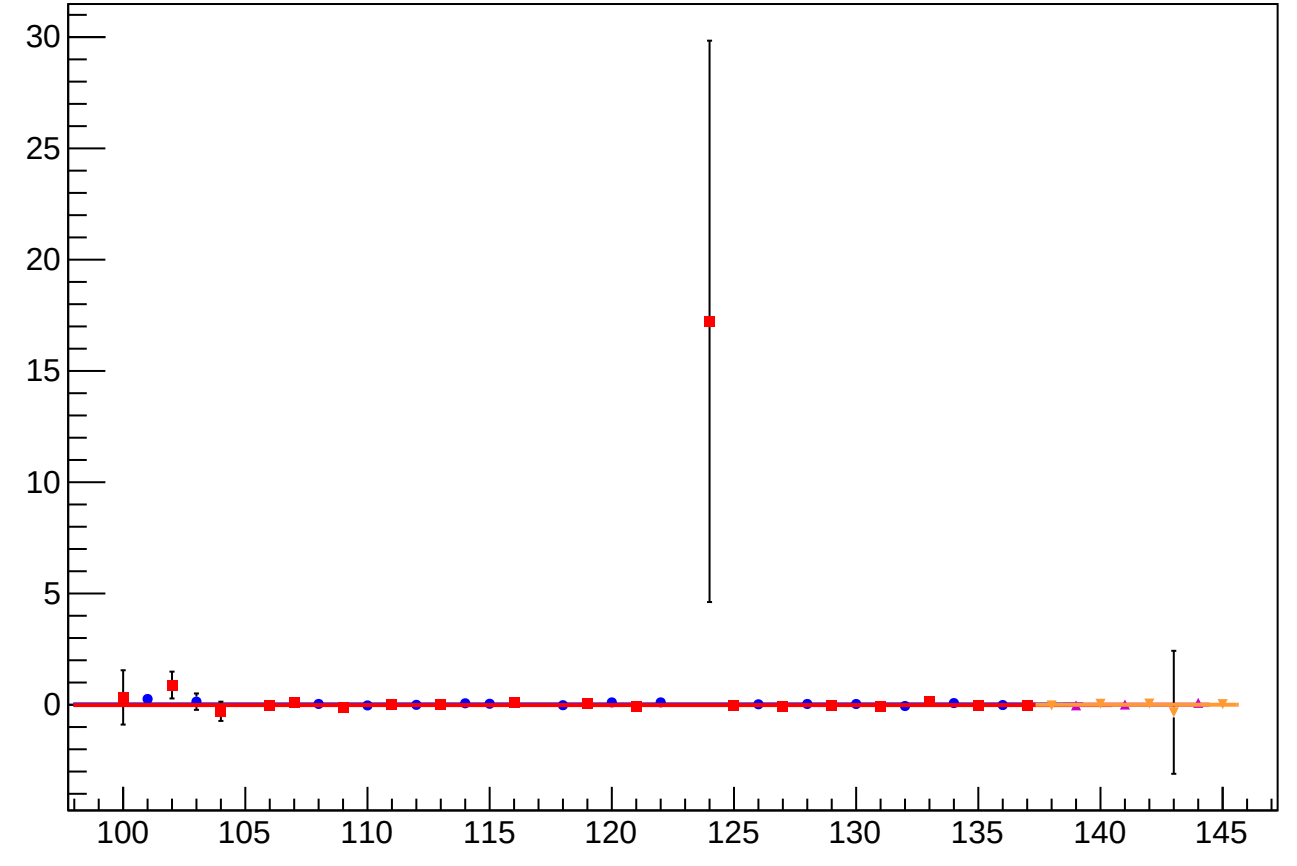
Right: 0.000+/-0.000 $\chi^2$/NDF: 6408892.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:3883403.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4492735.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 8407771.8/42

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: 0.003+/-0.020 $\chi^2$/NDF:3.1/4

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.004+/-0.022 $\chi^2$/NDF:3.4/2

Left: 0.004+/-0.015 $\chi^2$/NDF: 6.5/7

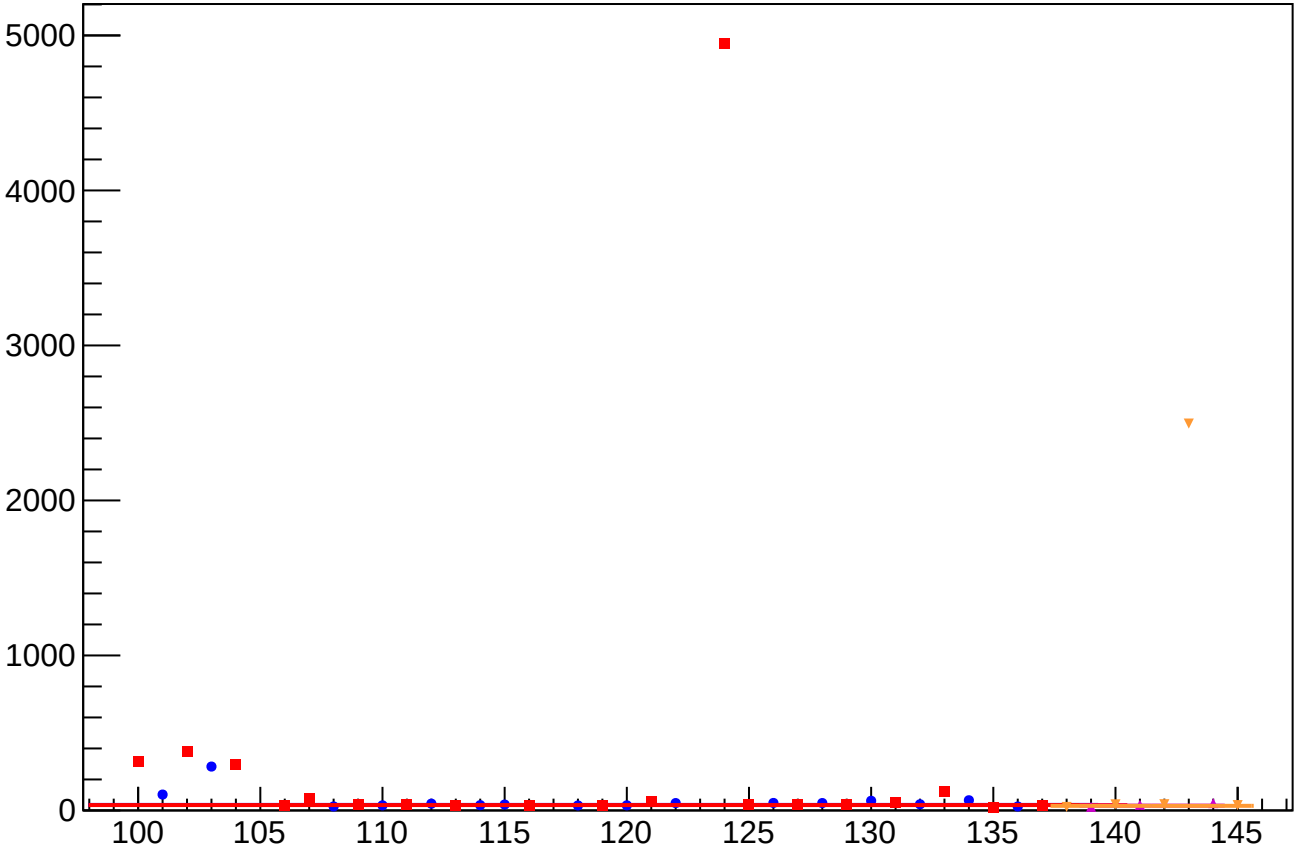
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.013 $\chi^2$/NDF:15.1/18

Out: -0.007+/-0.012 $\chi^2$/NDF:19.5/23

All: 0.002+/-0.009 $\chi^2$/NDF: 35.9/42

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: 29.891+/-0.014 $\chi^2$/NDF:1894945.5/4

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 31.218+/-0.016 $\chi^2$/NDF:364744.1/2

Left: 30.486+/-0.010 $\chi^2$/NDF: 2263711.7/7

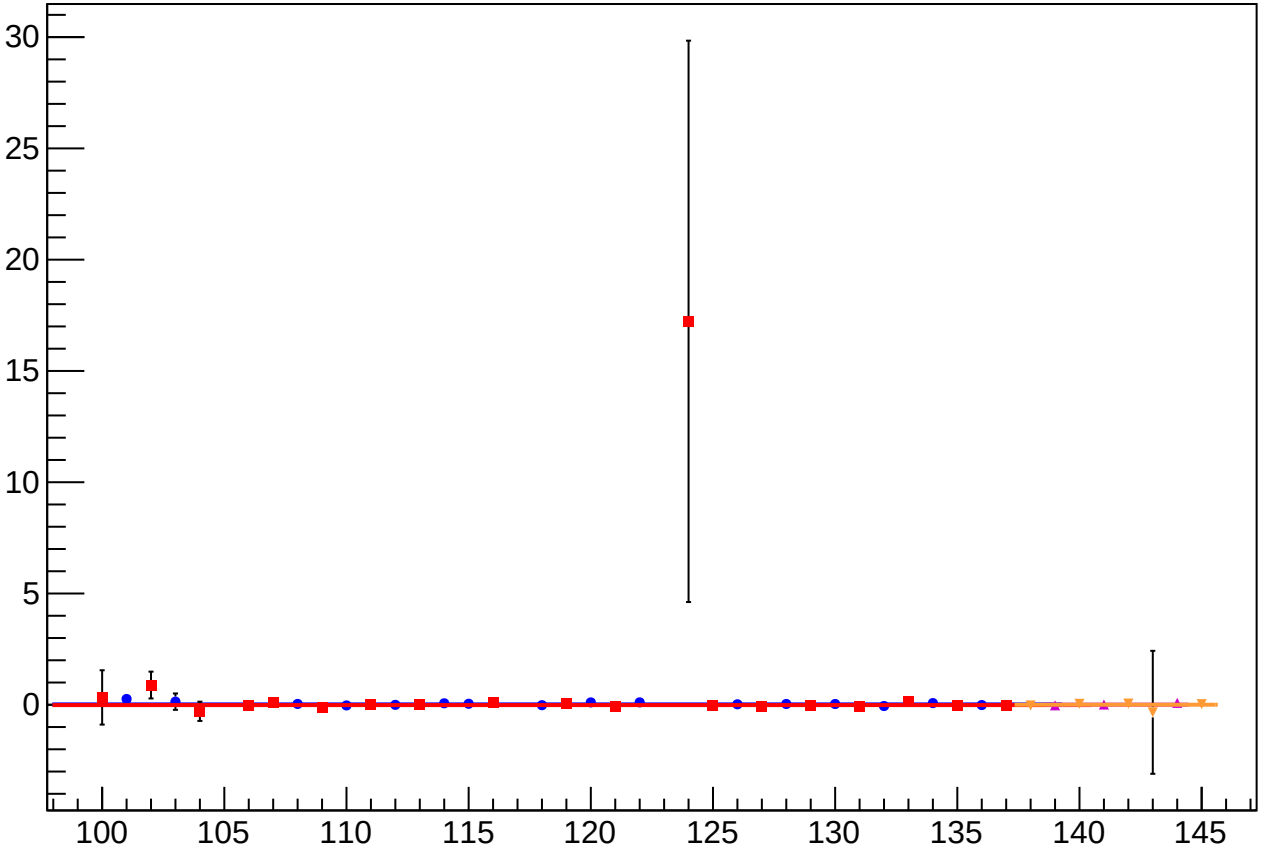
Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 34.247+/-0.009 $\chi^2$/NDF:2686210.2/18

Out: 32.917+/-0.009 $\chi^2$/NDF:4884680.9/23

All: 33.562+/-0.006 $\chi^2$/NDF: 7582299.5/42

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: 0.003+/-0.020 $\chi^2$/NDF:3.1/4

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.004+/-0.022 $\chi^2$/NDF:3.4/2

Left: 0.004+/-0.015 $\chi^2$/NDF: 6.5/7

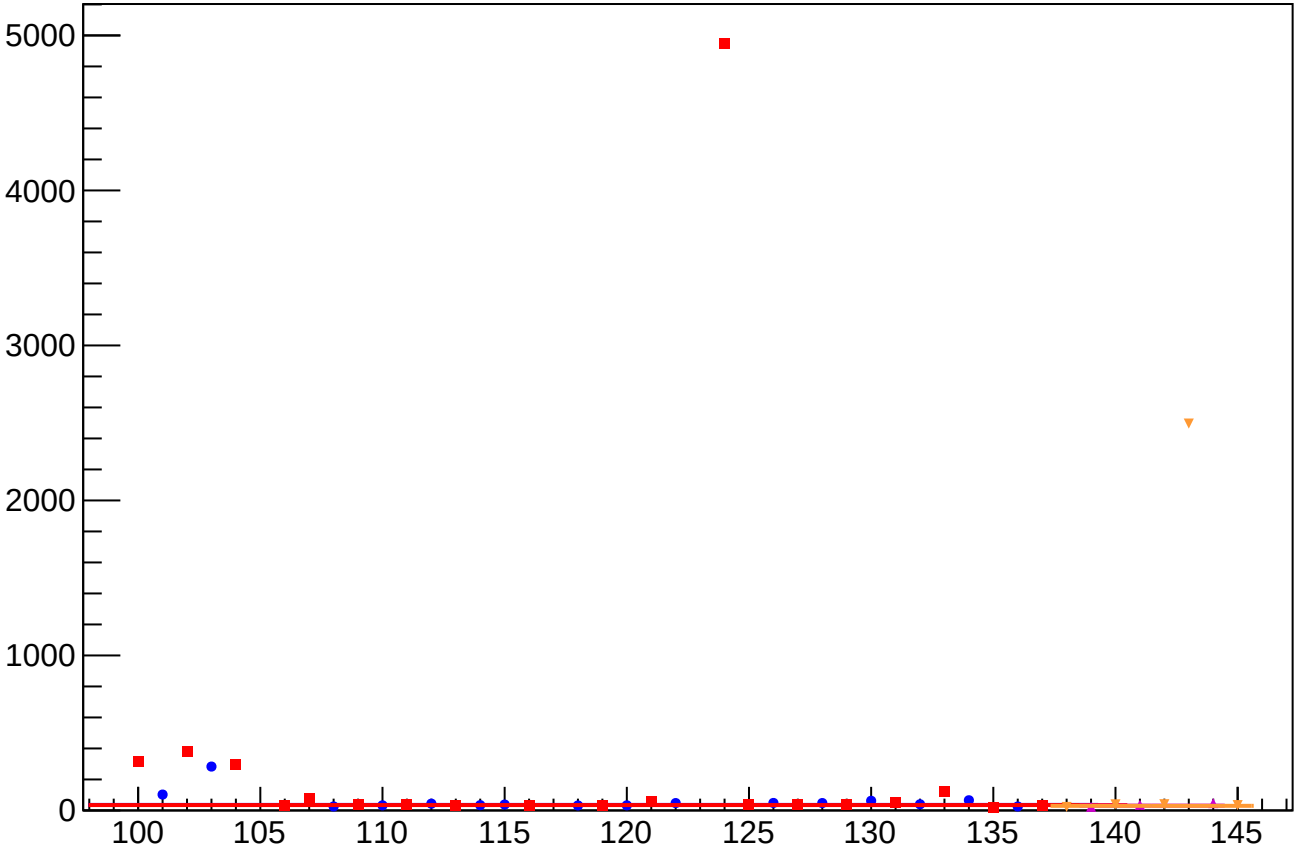
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.013 $\chi^2$/NDF:15.1/18

Out: -0.007+/-0.012 $\chi^2$/NDF:19.5/23

All: 0.002+/-0.009 $\chi^2$/NDF: 35.9/42

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: 29.891+/-0.014 $\chi^2$/NDF:1894945.5/4

Right Out: 34.797+/-0.011 $\chi^2$/NDF: 2914137.1/18

Left In: 31.218+/-0.016 $\chi^2$/NDF:364744.1/2

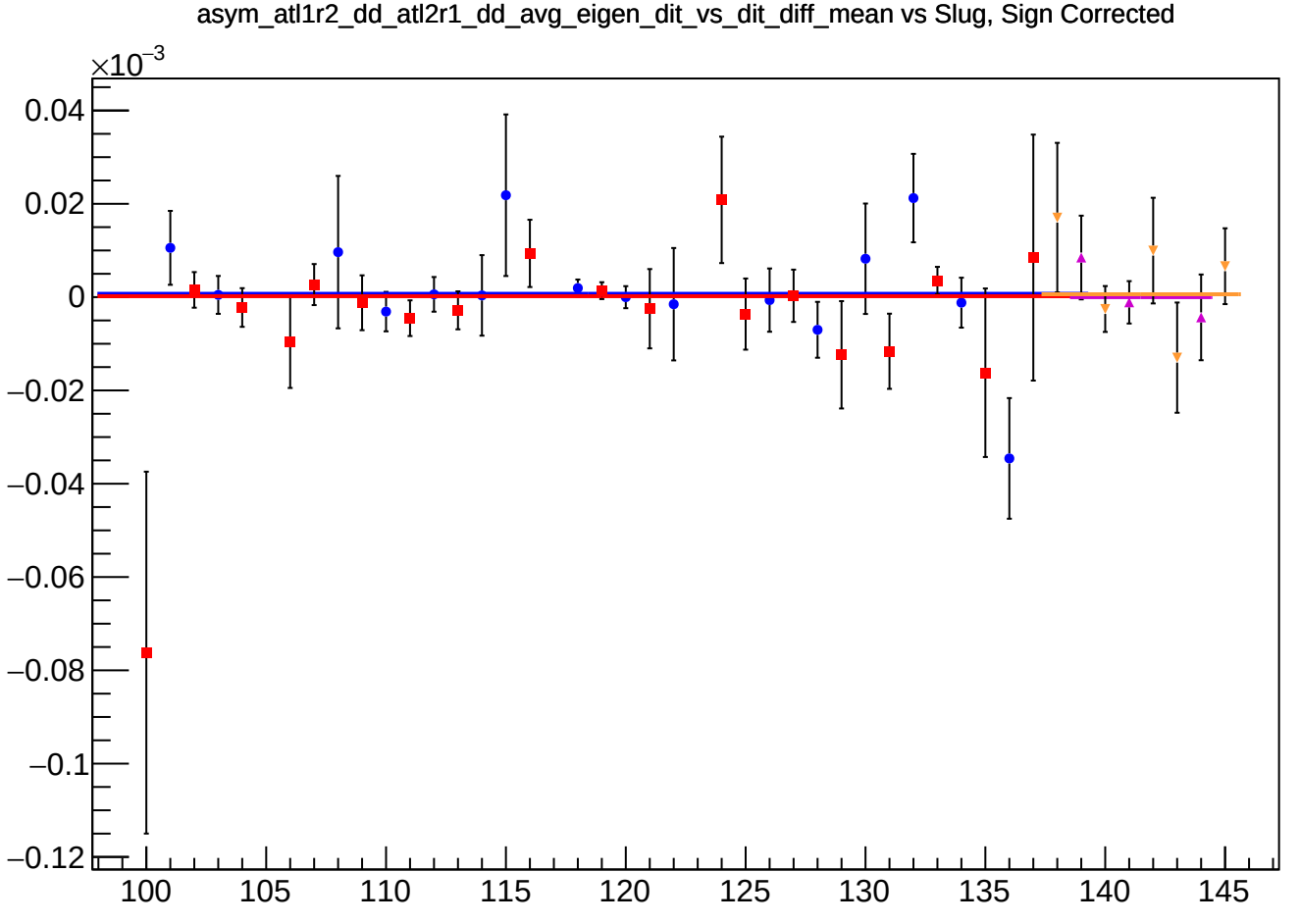
Left: 30.486+/-0.010 $\chi^2$/NDF: 2263711.7/7

Right: 35.274+/-0.008 $\chi^2$/NDF: 5182629.3/34

In: 34.247+/-0.009 $\chi^2$/NDF:2686210.2/18

Out: 32.917+/-0.009 $\chi^2$/NDF:4884680.9/23

All: 33.562+/-0.006 $\chi^2$/NDF: 7582299.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.2/2

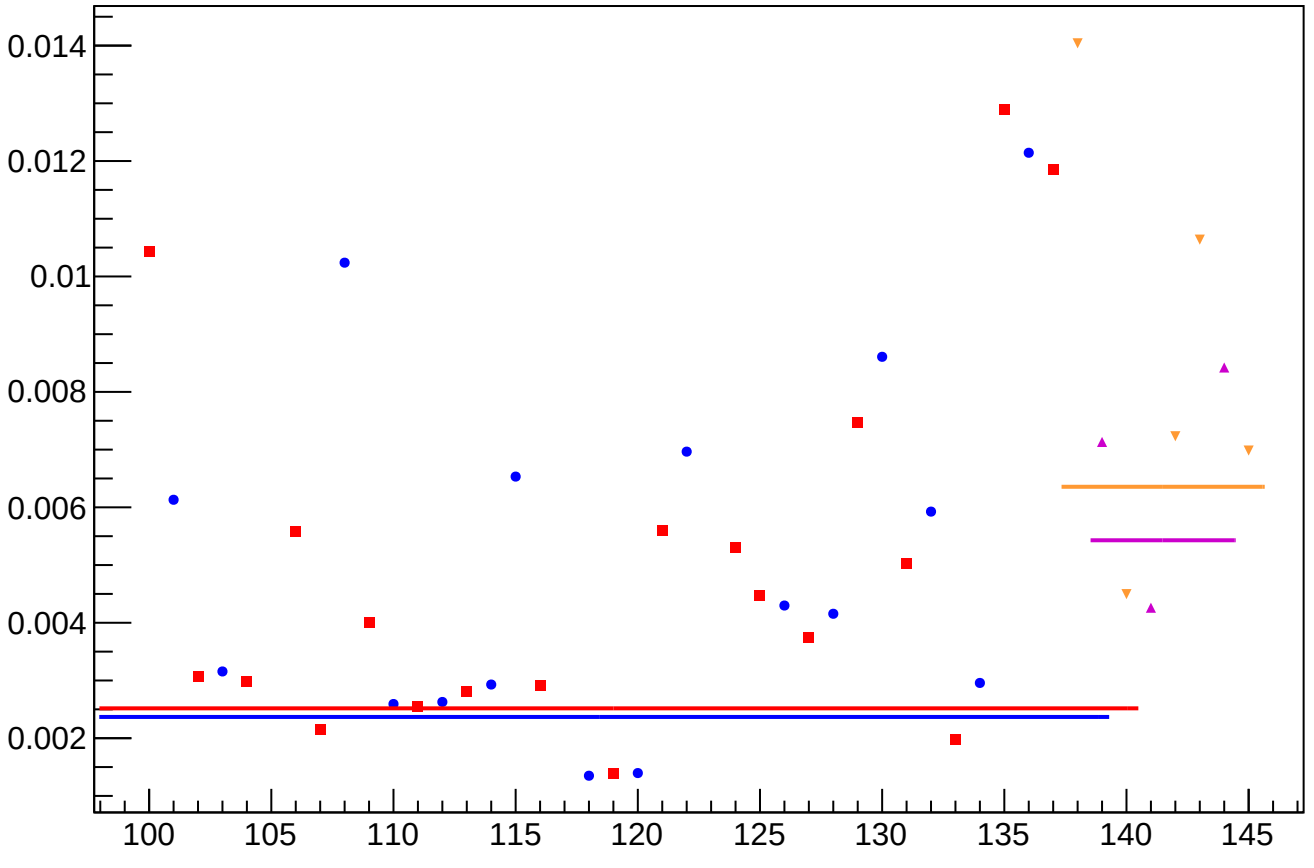
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 42.5/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4721602.1/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:1032290.1/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3397462.9/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:416679.3/2

Left: 0.006+/-0.000 $\chi^2$/NDF: 1512549.6/7

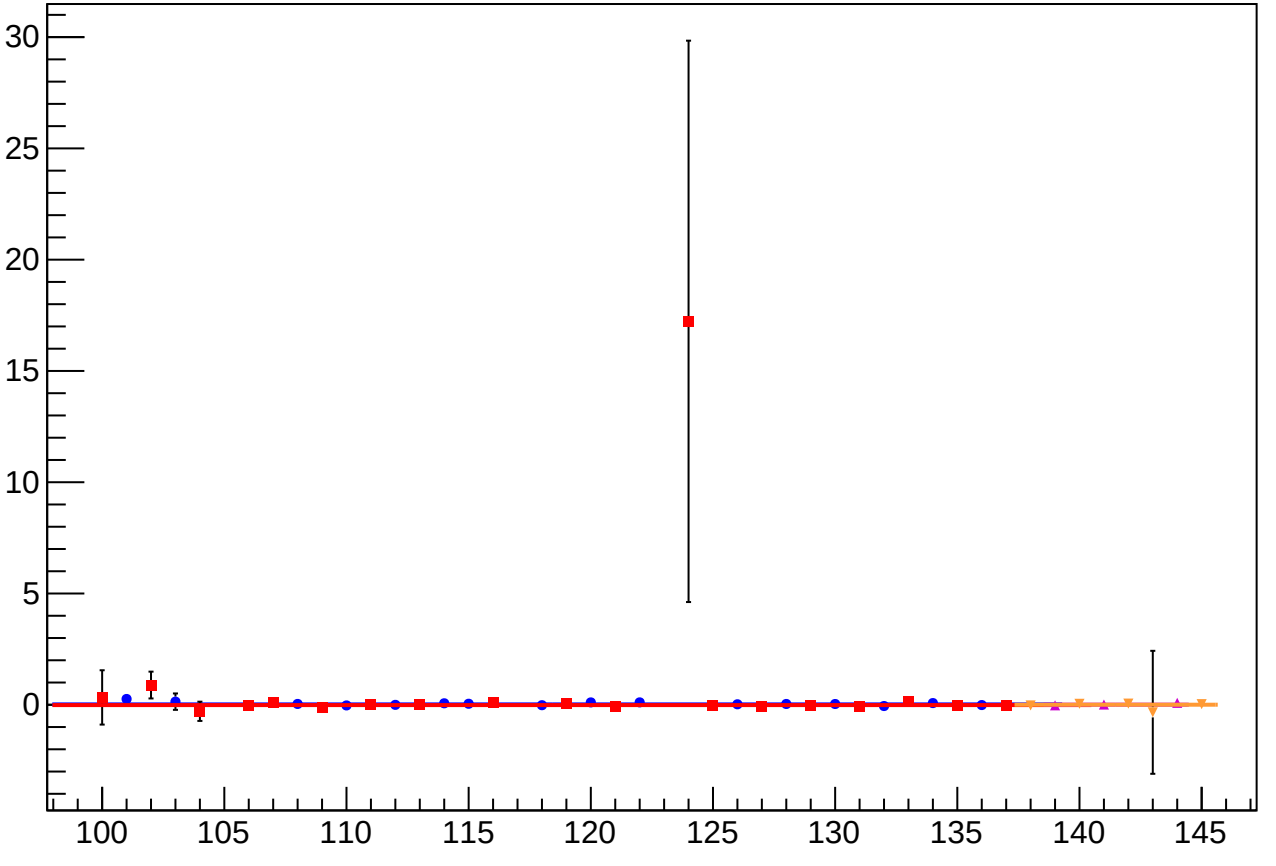
Right: 0.002+/-0.000 $\chi^2$/NDF: 8137943.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:6389579.1/18

Out: 0.003+/-0.000 $\chi^2$/NDF:6475939.6/23

All: 0.003+/-0.000 $\chi^2$/NDF: 12902737.7/42

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: 0.003+/-0.020 $\chi^2$/NDF:3.1/4

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.004+/-0.022 $\chi^2$/NDF:3.4/2

Left: 0.004+/-0.015 $\chi^2$/NDF: 6.5/7

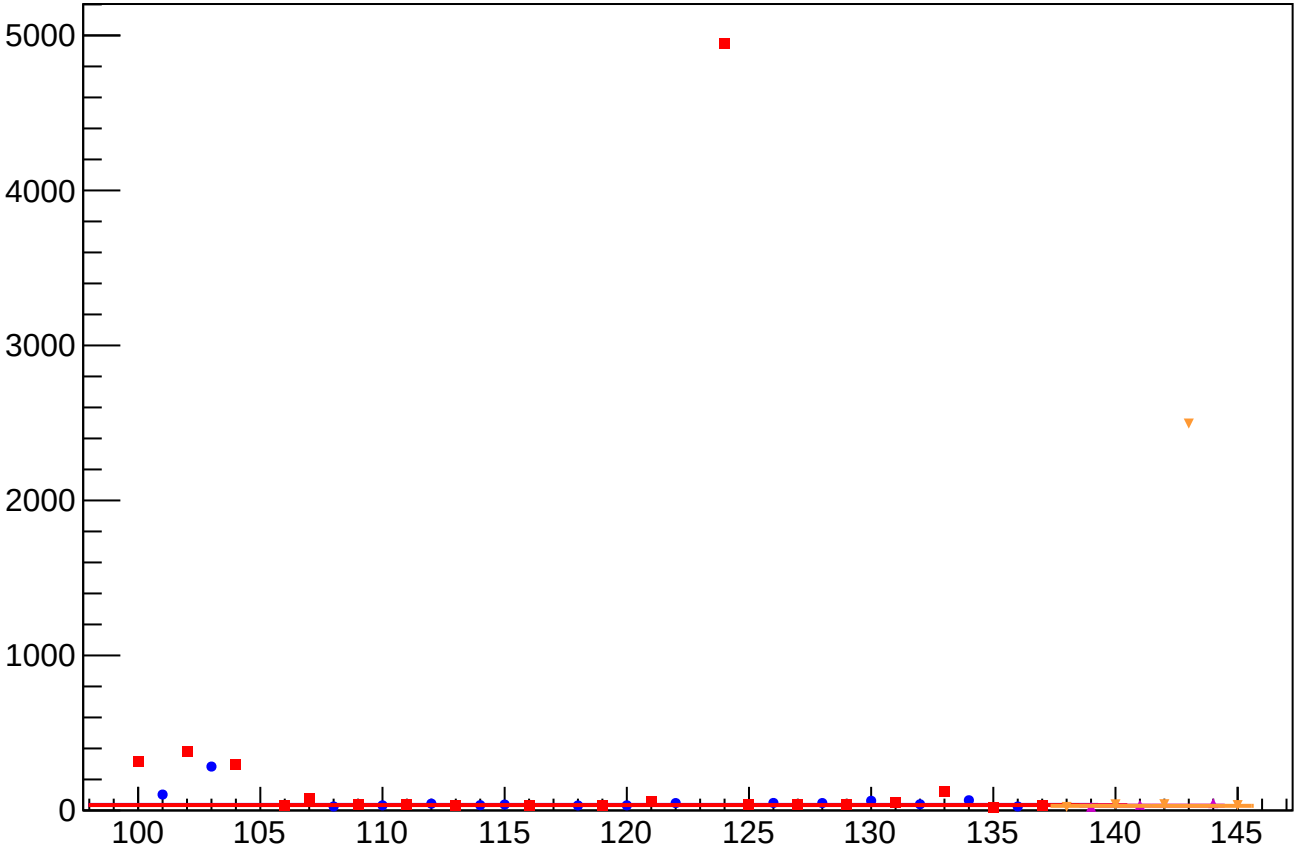
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.013 $\chi^2$/NDF:15.1/18

Out: -0.007+/-0.012 $\chi^2$/NDF:19.5/23

All: 0.002+/-0.009 $\chi^2$/NDF: 35.9/42

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: 29.892+/-0.014 $\chi^2$/NDF:1895152.8/4

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 31.214+/-0.016 $\chi^2$/NDF:365054.7/2

Left: 30.485+/-0.010 $\chi^2$/NDF: 2264202.3/7

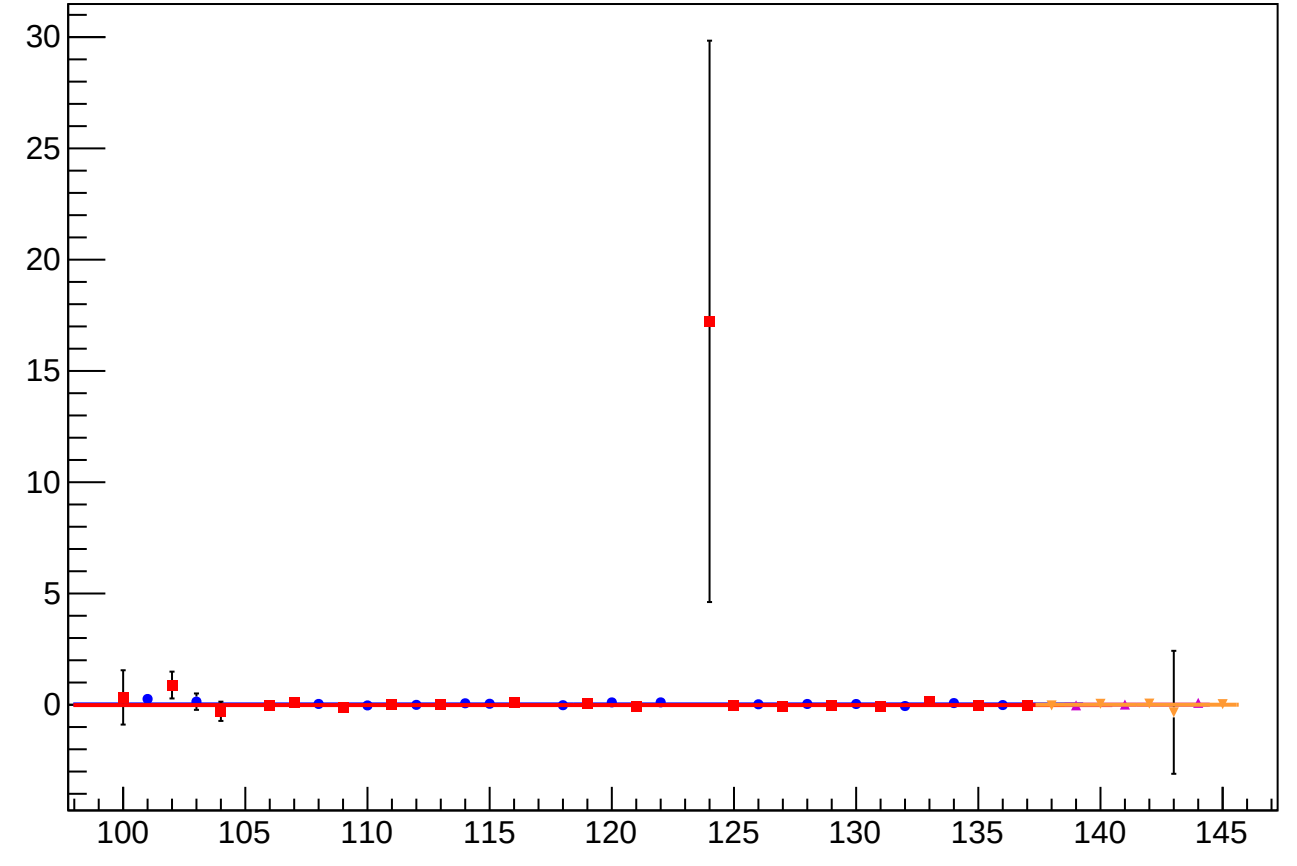
Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 34.247+/-0.009 $\chi^2$/NDF:2686385.5/18

Out: 32.918+/-0.009 $\chi^2$/NDF:4884721.2/23

All: 33.562+/-0.006 $\chi^2$/NDF: 7582492.8/42

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: 0.003+/-0.020 $\chi^2$/NDF:3.1/4

Right Out: -0.014+/-0.016 $\chi^2$/NDF: 16.0/18

Left In: 0.004+/-0.022 $\chi^2$/NDF:3.4/2

Left: 0.004+/-0.015 $\chi^2$/NDF: 6.5/7

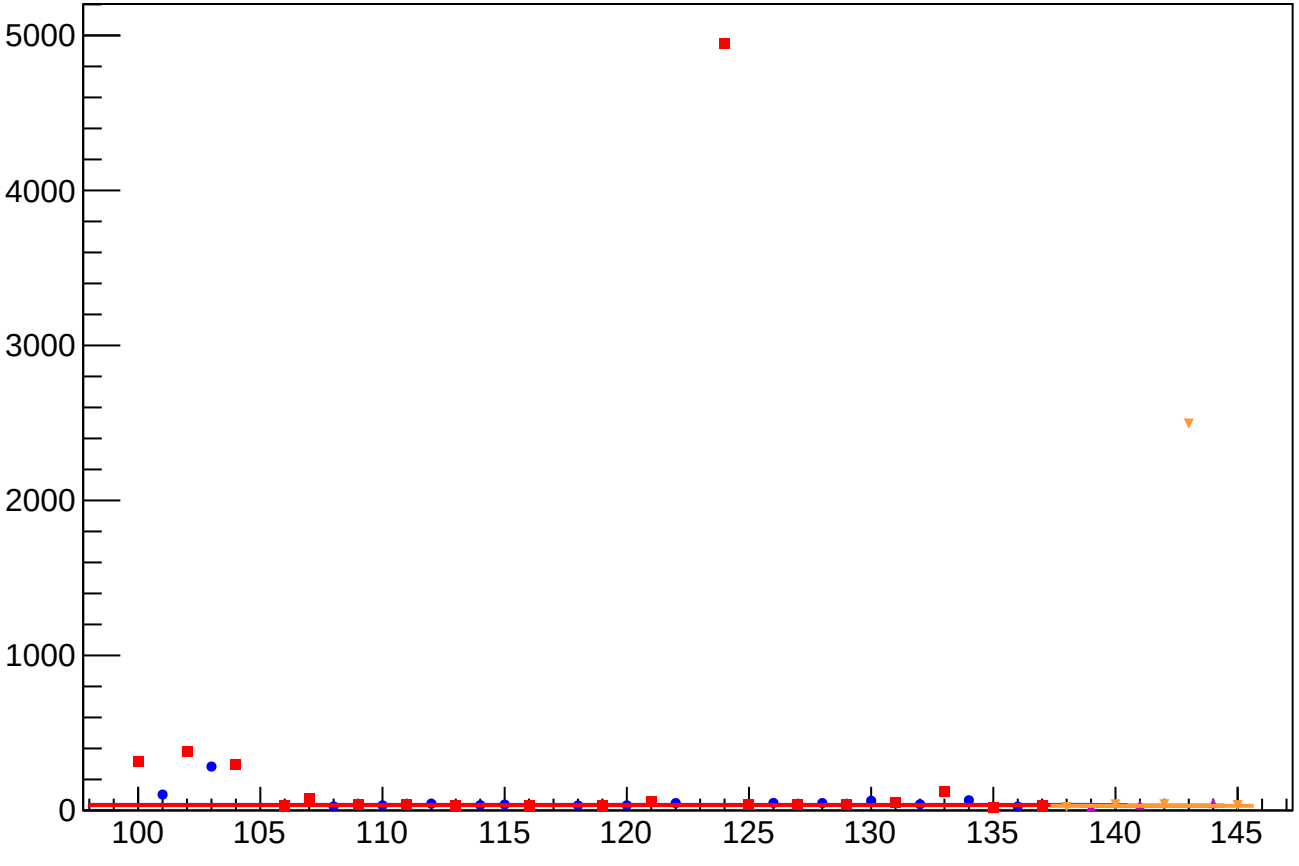
Right: 0.002+/-0.011 $\chi^2$/NDF: 29.4/34

In: 0.013+/-0.013 $\chi^2$/NDF:15.1/18

Out: -0.007+/-0.012 $\chi^2$/NDF:19.5/23

All: 0.002+/-0.009 $\chi^2$/NDF: 35.9/42

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: 29.892+/-0.014 $\chi^2$/NDF:1895152.8/4

Right Out: 34.798+/-0.011 $\chi^2$/NDF: 2913962.5/18

Left In: 31.214+/-0.016 $\chi^2$/NDF:365054.7/2

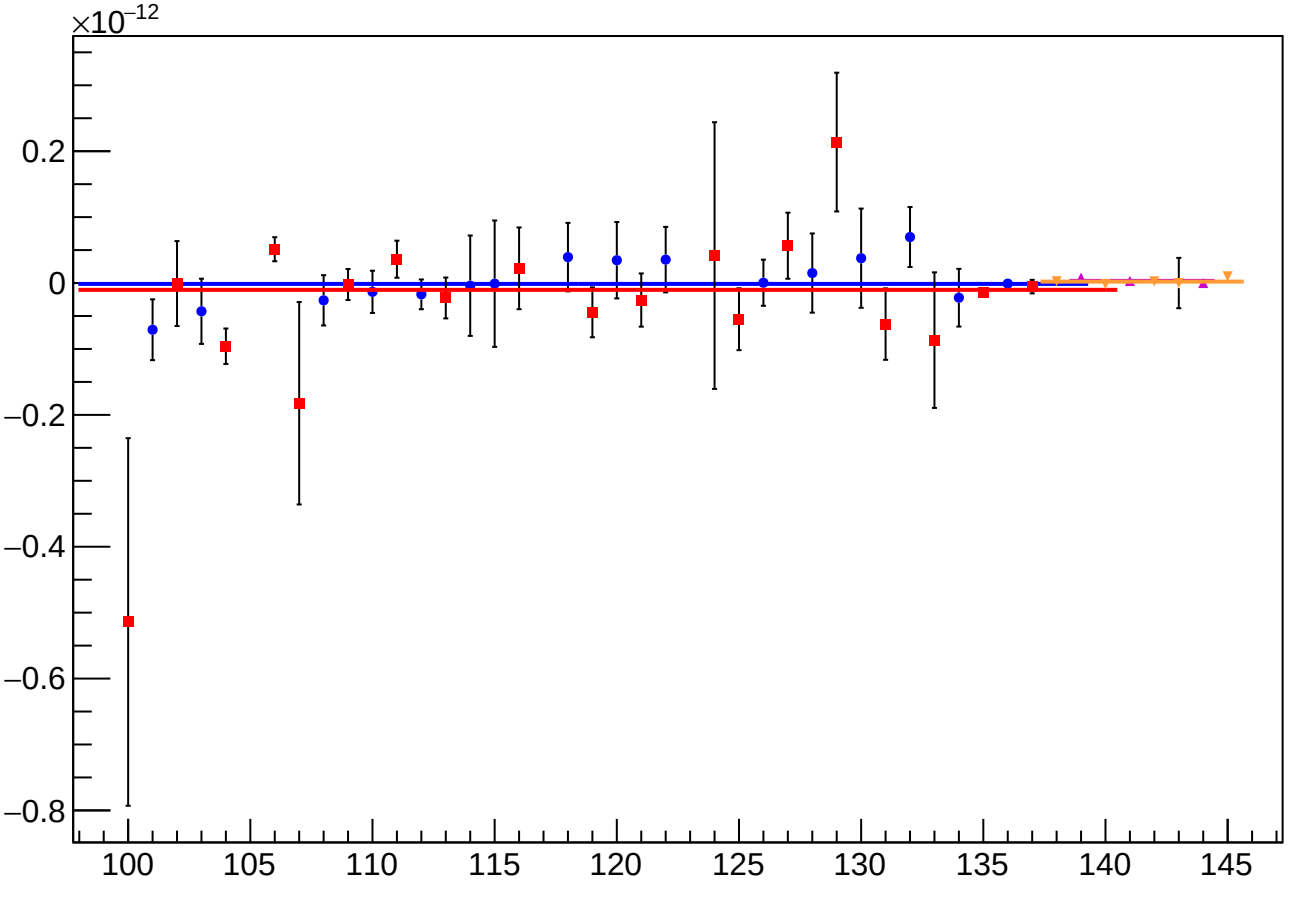
Left: 30.485+/-0.010 $\chi^2$/NDF: 2264202.3/7

Right: 35.276+/-0.008 $\chi^2$/NDF: 5182182.2/34

In: 34.247+/-0.009 $\chi^2$/NDF:2686385.5/18

Out: 32.918+/-0.009 $\chi^2$/NDF:4884721.2/23

All: 33.562+/-0.006 $\chi^2$/NDF: 7582492.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.4/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 39.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/2

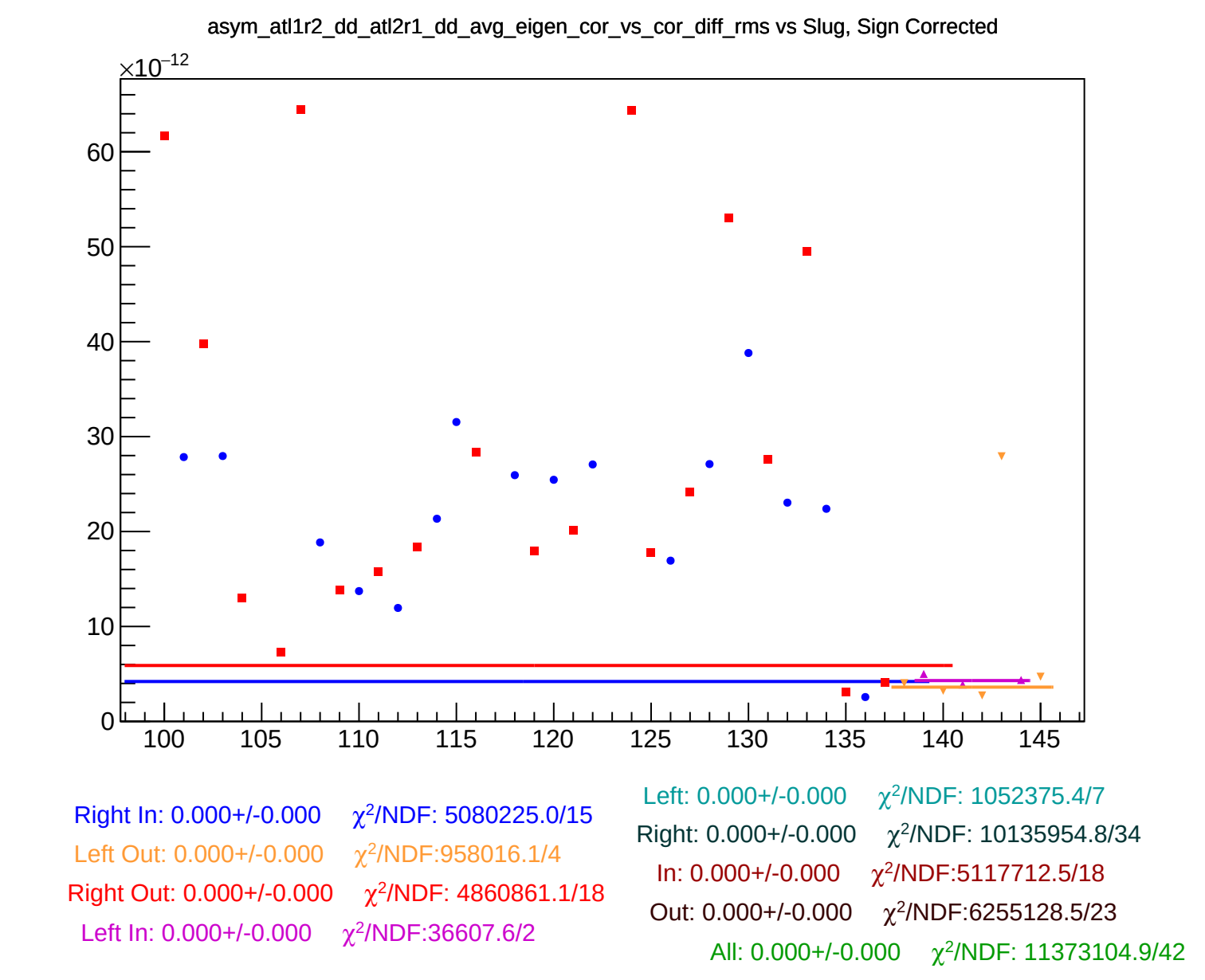
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.4/7

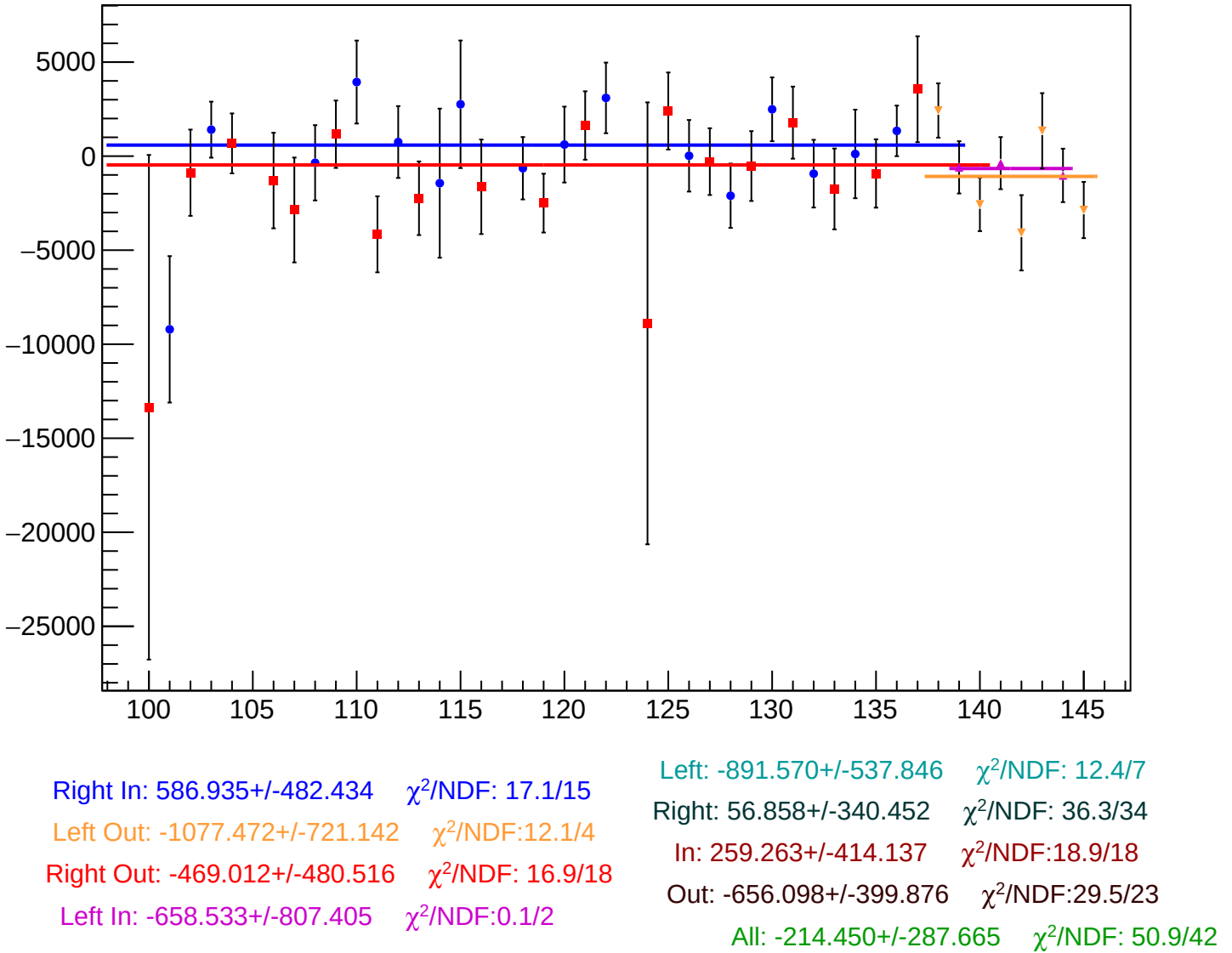
Right: -0.000+/-0.000 $\chi^2$/NDF: 51.3/34

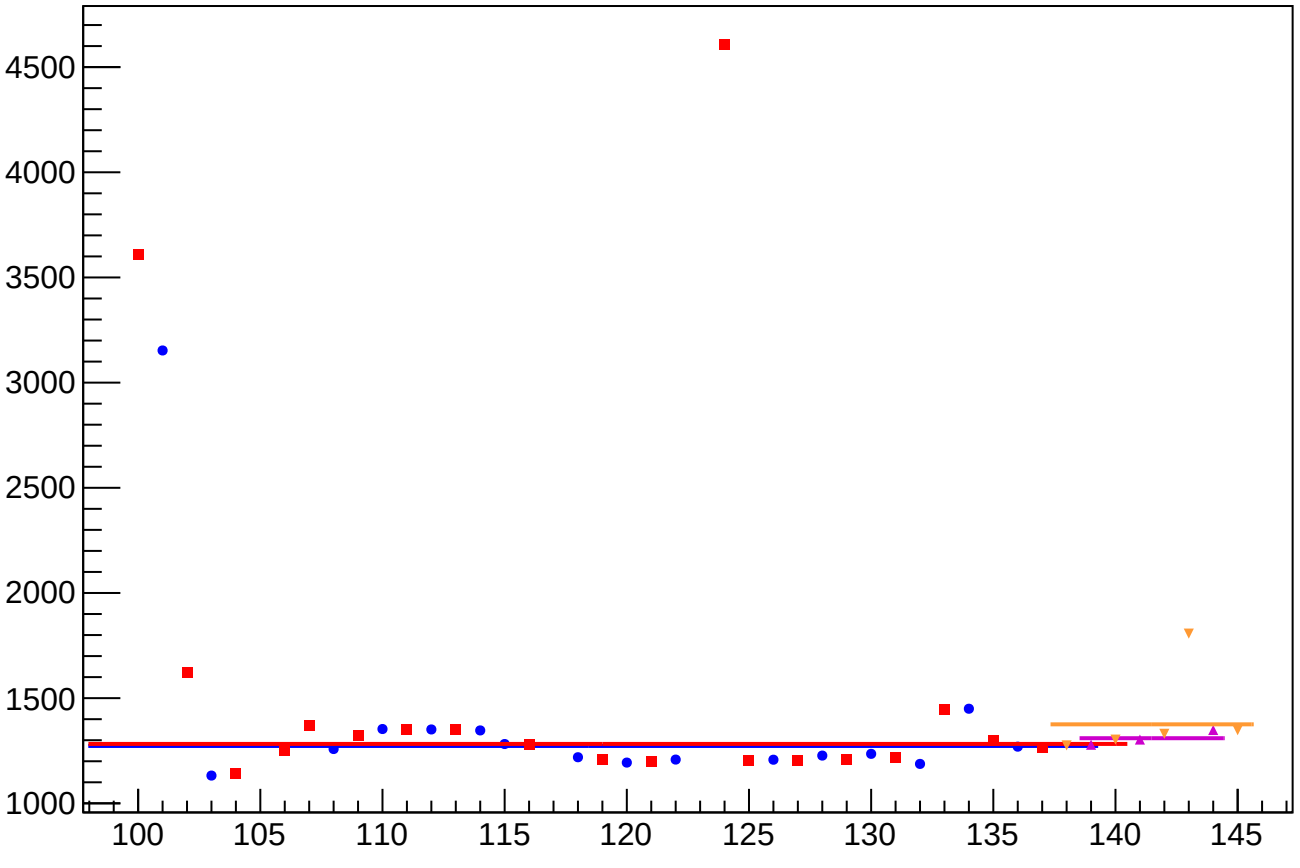
In: 0.000+/-0.000 $\chi^2$/NDF:10.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:48.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 59.8/42


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 5080225.0/15
Left Out: 0.000+/-0.000 χ²/NDF:958016.1/4
Right Out: 0.000+/-0.000 χ²/NDF: 4860861.1/18
Left In: 0.000+/-0.000 χ²/NDF:36607.6/2
Left: 0.000+/-0.000 χ²/NDF: 1052375.4/7
Right: 0.000+/-0.000 χ²/NDF: 10135954.8/34
In: 0.000+/-0.000 χ²/NDF:5117712.5/18
Out: 0.000+/-0.000 χ²/NDF:6255128.5/23
All: 0.000+/-0.000 χ²/NDF: 11373104.9/42


reg_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 586.935+/-482.434 χ²/NDF: 17.1/15
Left Out: -1077.472+/-721.142 χ²/NDF:12.1/4
Right Out: -469.012+/-480.516 χ²/NDF: 16.9/18
Left In: -658.533+/-807.405 χ²/NDF:0.1/2
Left: -891.570+/-537.846 χ²/NDF: 12.4/7
Right: 56.858+/-340.452 χ²/NDF: 36.3/34
In: 259.263+/-414.137 χ²/NDF:18.9/18
Out: -656.098+/-399.876 χ²/NDF:29.5/23
All: -214.450+/-287.665 χ²/NDF: 50.9/42




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519298.2/15

Left Out: 1375.506+/-0.510 $\chi^2$/NDF:109581.1/4

Right Out: 1282.365+/-0.340 $\chi^2$/NDF: 322078.6/18

Left In: 1309.552+/-0.571 $\chi^2$/NDF:2556.9/2

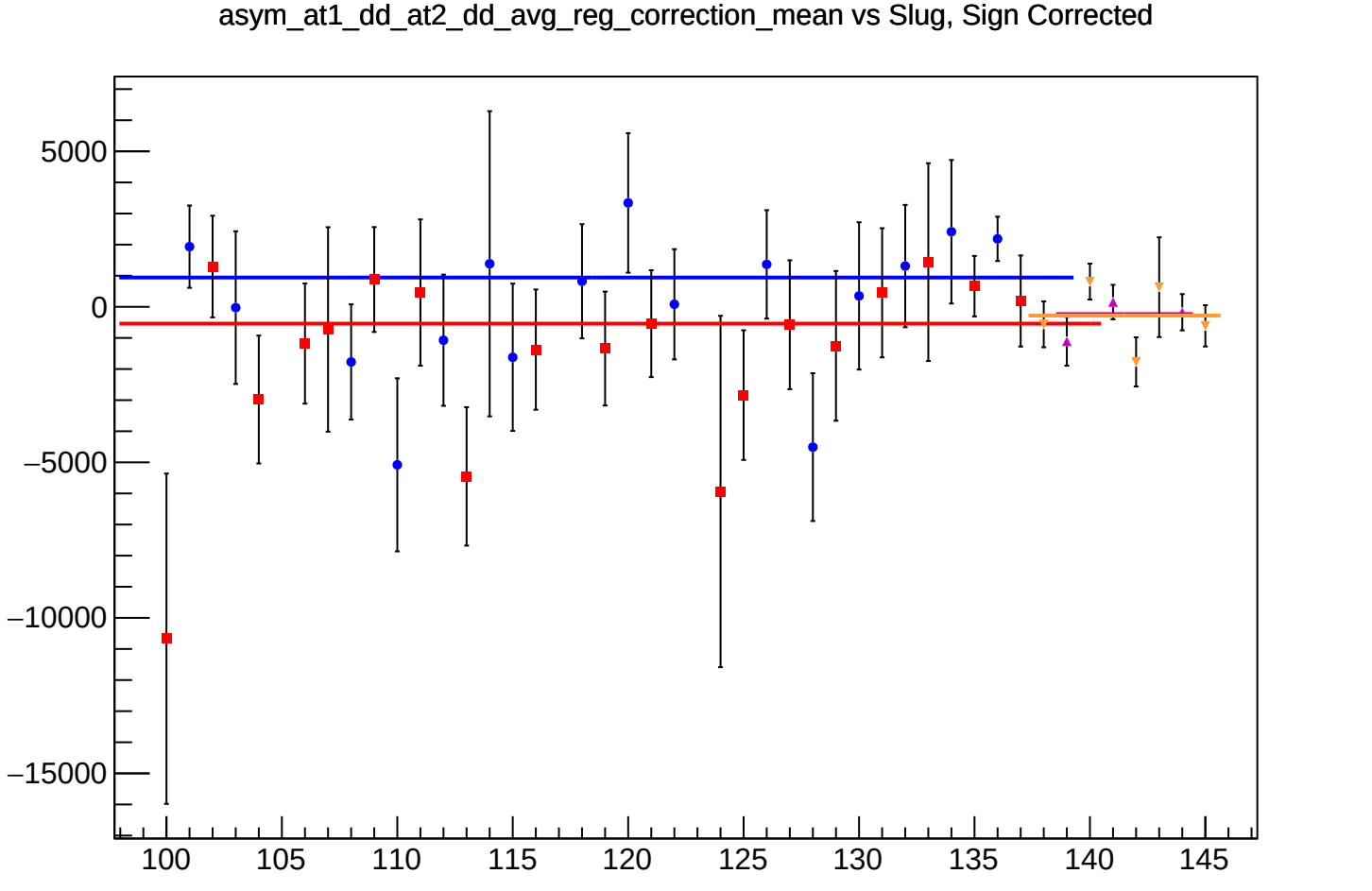
Left: 1346.239+/-0.380 $\chi^2$/NDF: 119561.5/7

Right: 1277.604+/-0.241 $\chi^2$/NDF: 841771.1/34

In: 1282.472+/-0.293 $\chi^2$/NDF:524907.9/18

Out: 1311.003+/-0.283 $\chi^2$/NDF:454764.8/23

All: 1297.237+/-0.203 $\chi^2$/NDF: 984585.3/42




Right In: 941.759+/-425.837 $\chi^2$/NDF: 19.9/15

Left Out: -281.339+/-331.499 $\chi^2$/NDF:7.8/4

Right Out: -540.622+/-439.905 $\chi^2$/NDF: 17.2/18

Left In: -232.003+/-357.484 $\chi^2$/NDF:1.7/2

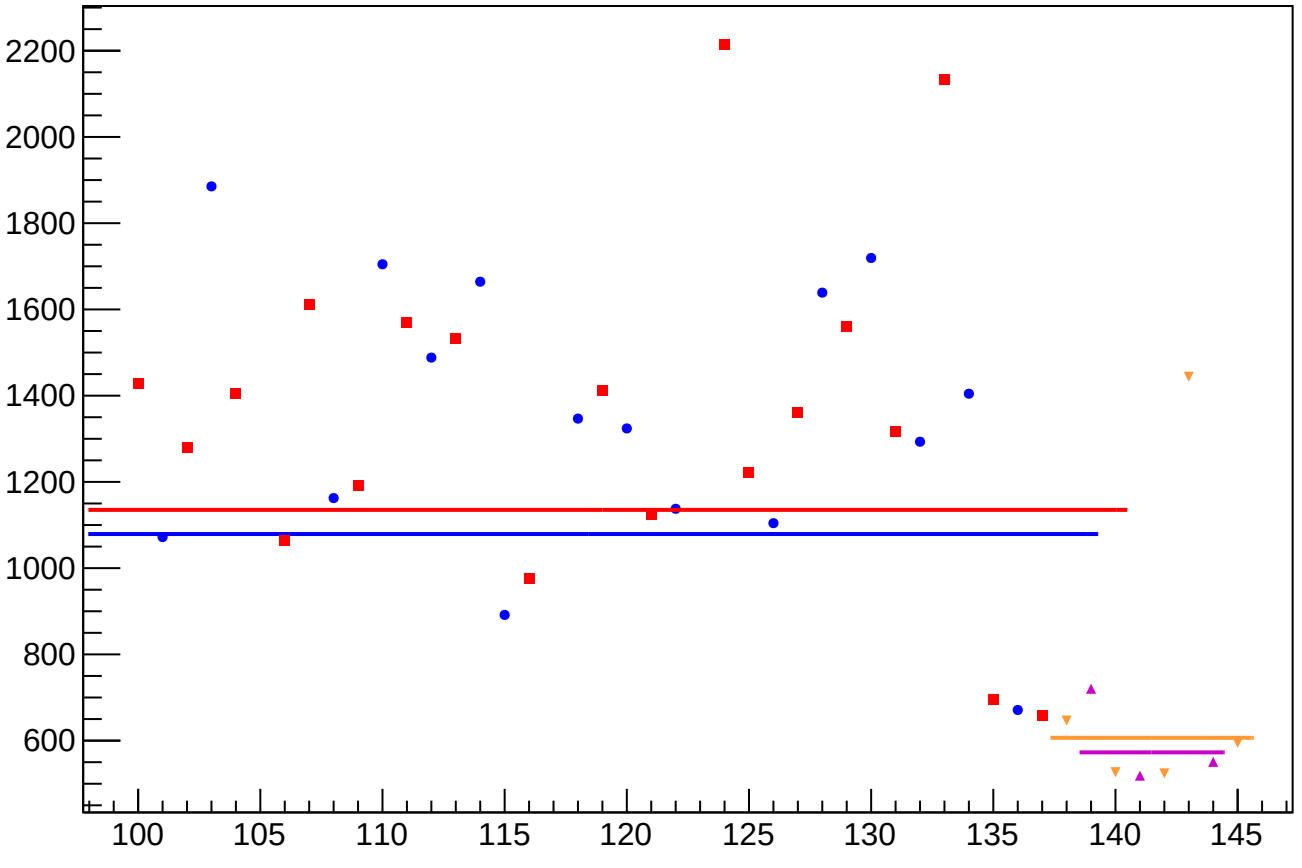
Left: -258.529+/-243.073 $\chi^2$/NDF: 9.6/7

Right: 224.651+/-305.965 $\chi^2$/NDF: 42.9/34

In: 253.230+/-273.797 $\chi^2$/NDF:26.1/18

Out: -375.249+/-264.745 $\chi^2$/NDF:25.2/23

All: -71.570+/-190.323 $\chi^2$/NDF: 54.1/42




Right In: 1079.120+/-0.301 $\chi^2$/NDF: 1482232.0/15

Left Out: 606.541+/-0.234 $\chi^2$/NDF:611893.3/4

Right Out: 1135.161+/-0.311 $\chi^2$/NDF: 1293082.2/18

Left In: 572.777+/-0.253 $\chi^2$/NDF:92673.4/2

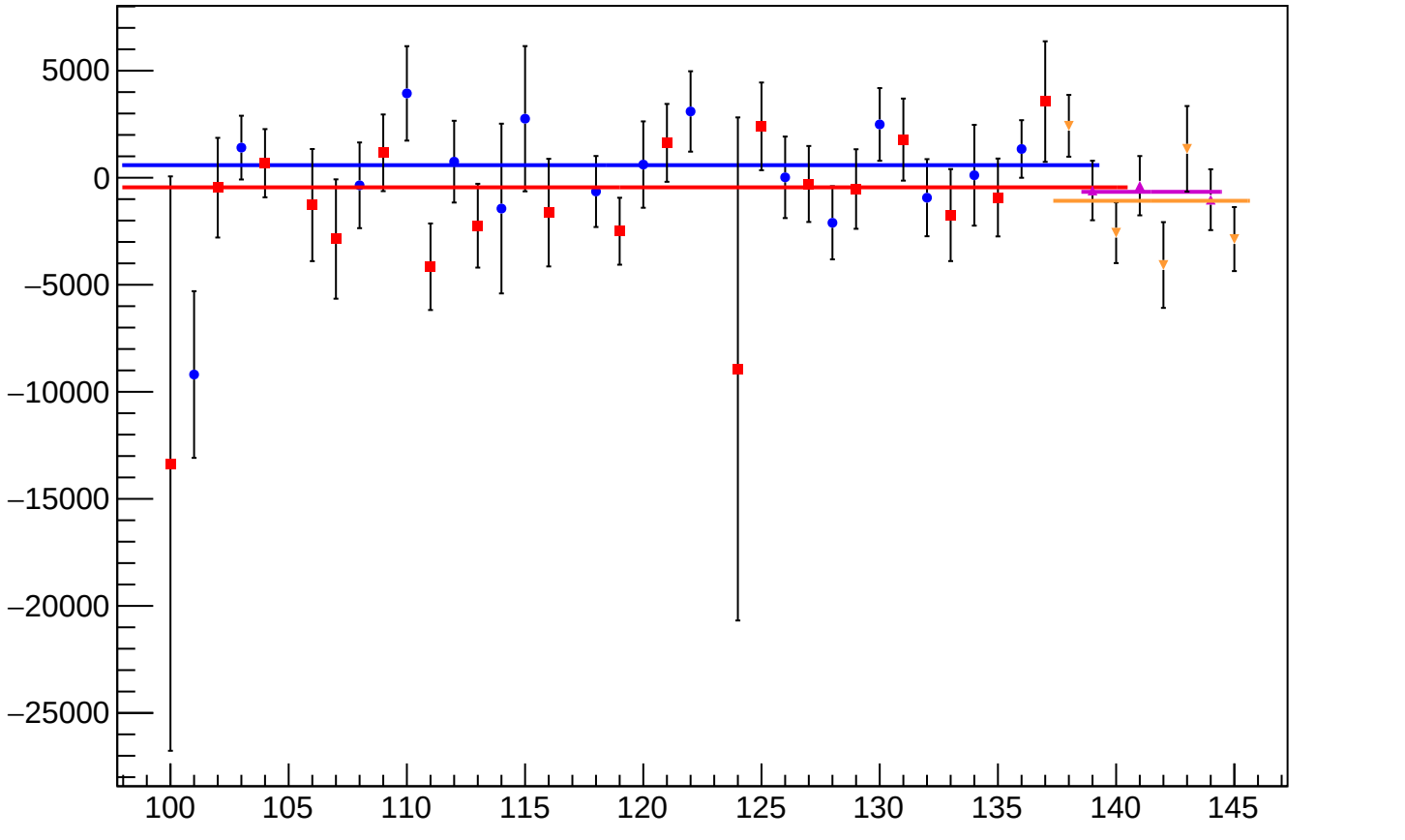
Left: 590.930+/-0.172 $\chi^2$/NDF: 714159.1/7

Right: 1106.230+/-0.216 $\chi^2$/NDF: 2792070.7/34

In: 782.099+/-0.194 $\chi^2$/NDF:3233633.2/18

Out: 798.002+/-0.187 $\chi^2$/NDF:3746980.1/23

All: 790.318+/-0.135 $\chi^2$/NDF: 6984100.4/42




Right In: 587.254+/-482.434 $\chi^2$/NDF: 17.1/15

Left Out: -1077.583+/-721.142 $\chi^2$/NDF:12.1/4

Right Out: -448.412+/-481.333 $\chi^2$/NDF: 16.8/18

Left In: -658.531+/-807.405 $\chi^2$/NDF:0.1/2

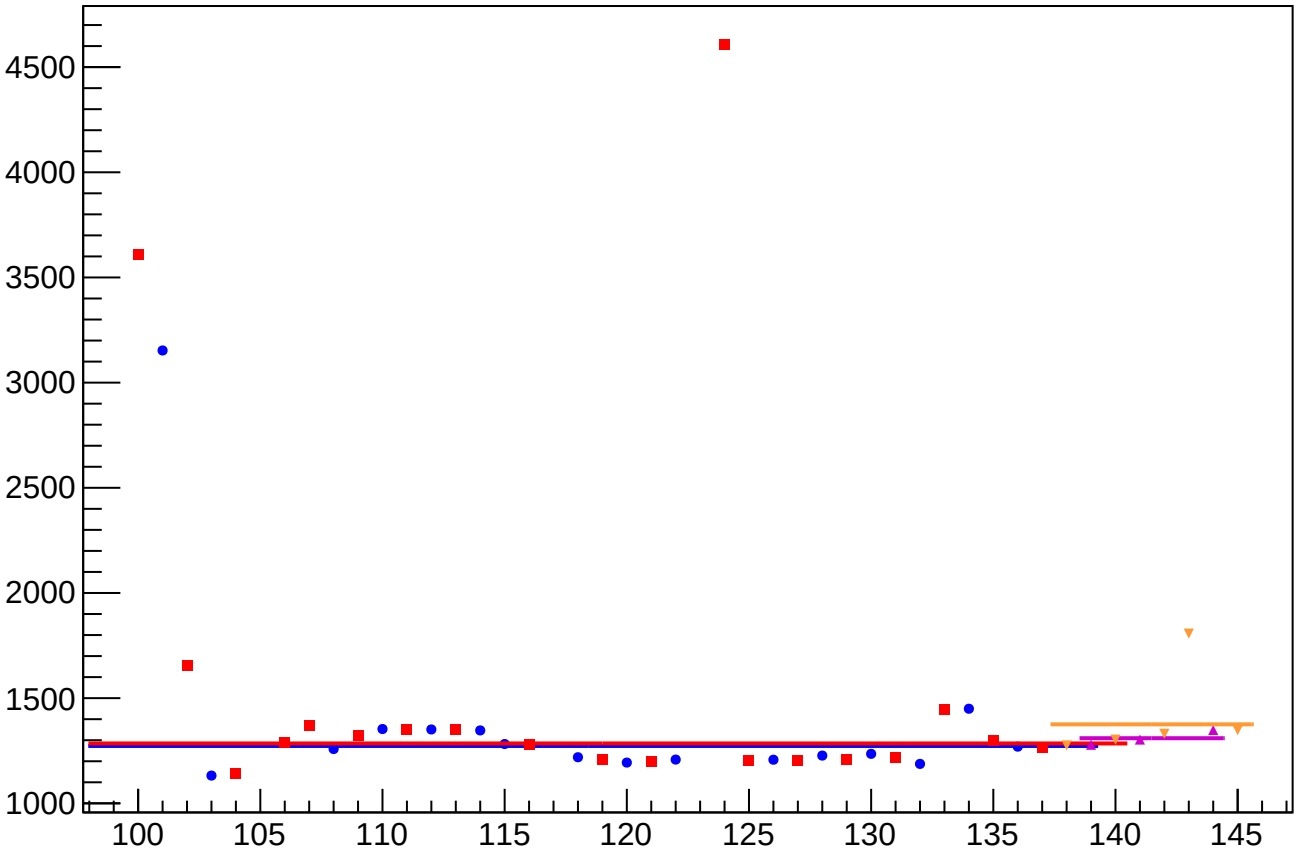
Left: -891.631+/-537.846 $\chi^2$/NDF: 12.4/7

Right: 68.238+/-340.742 $\chi^2$/NDF: 36.2/34

In: 259.499+/-414.138 $\chi^2$/NDF:18.9/18

Out: -642.322+/-400.347 $\chi^2$/NDF:29.5/23

All: -206.676+/-287.840 $\chi^2$/NDF: 50.8/42




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1375.506+/-0.510 $\chi^2$/NDF:109581.1/4

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1309.552+/-0.571 $\chi^2$/NDF:2556.9/2

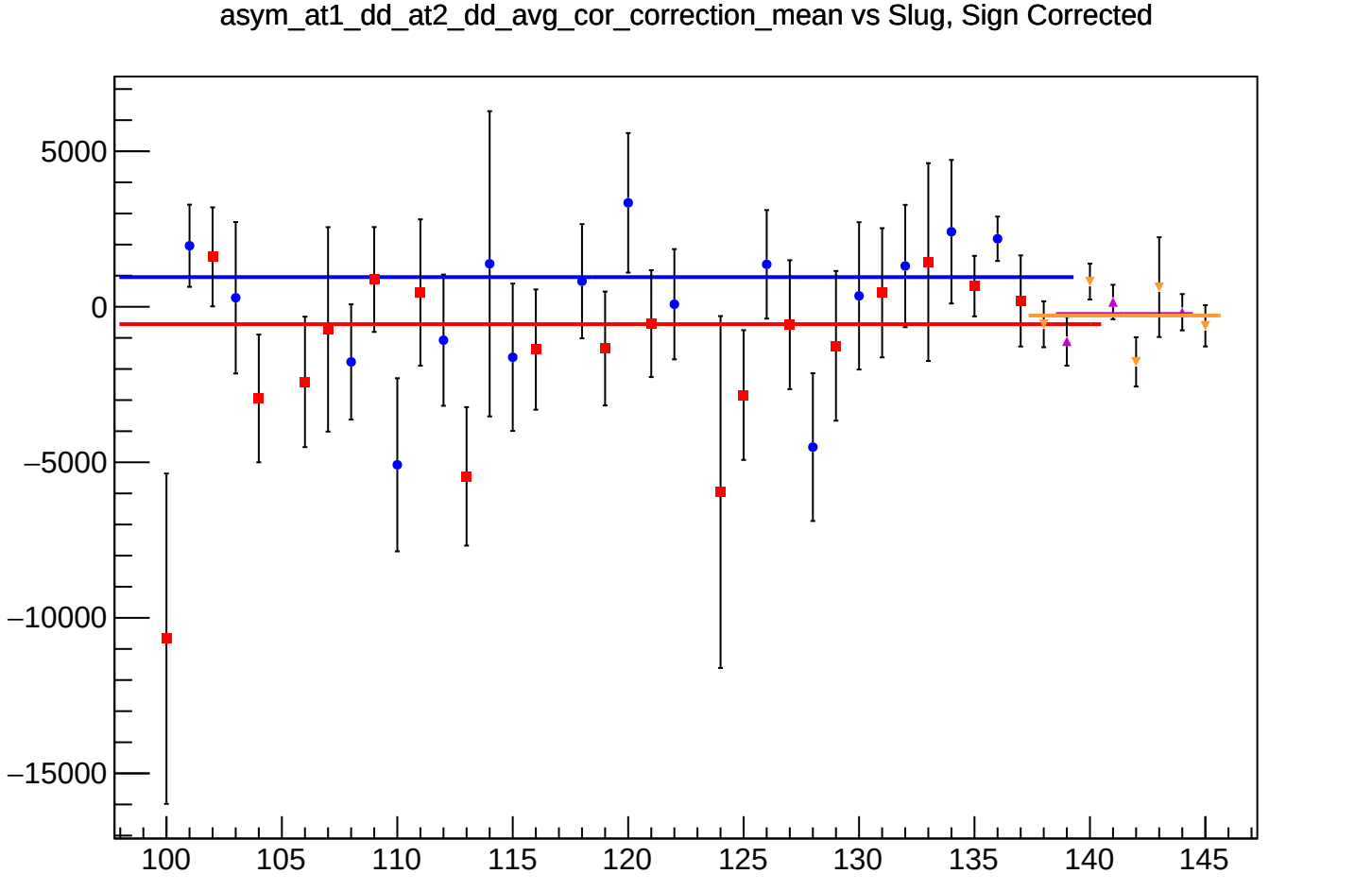
Left: 1346.239+/-0.380 $\chi^2$/NDF: 119561.5/7

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1282.472+/-0.293 $\chi^2$/NDF:524909.4/18

Out: 1312.654+/-0.283 $\chi^2$/NDF:460276.3/23

All: 1298.074+/-0.204 $\chi^2$/NDF: 990677.1/42




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: -281.296+/-331.508 $\chi^2$/NDF:7.9/4

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -232.142+/-357.478 $\chi^2$/NDF:1.7/2

Left: -258.569+/-243.075 $\chi^2$/NDF: 9.6/7

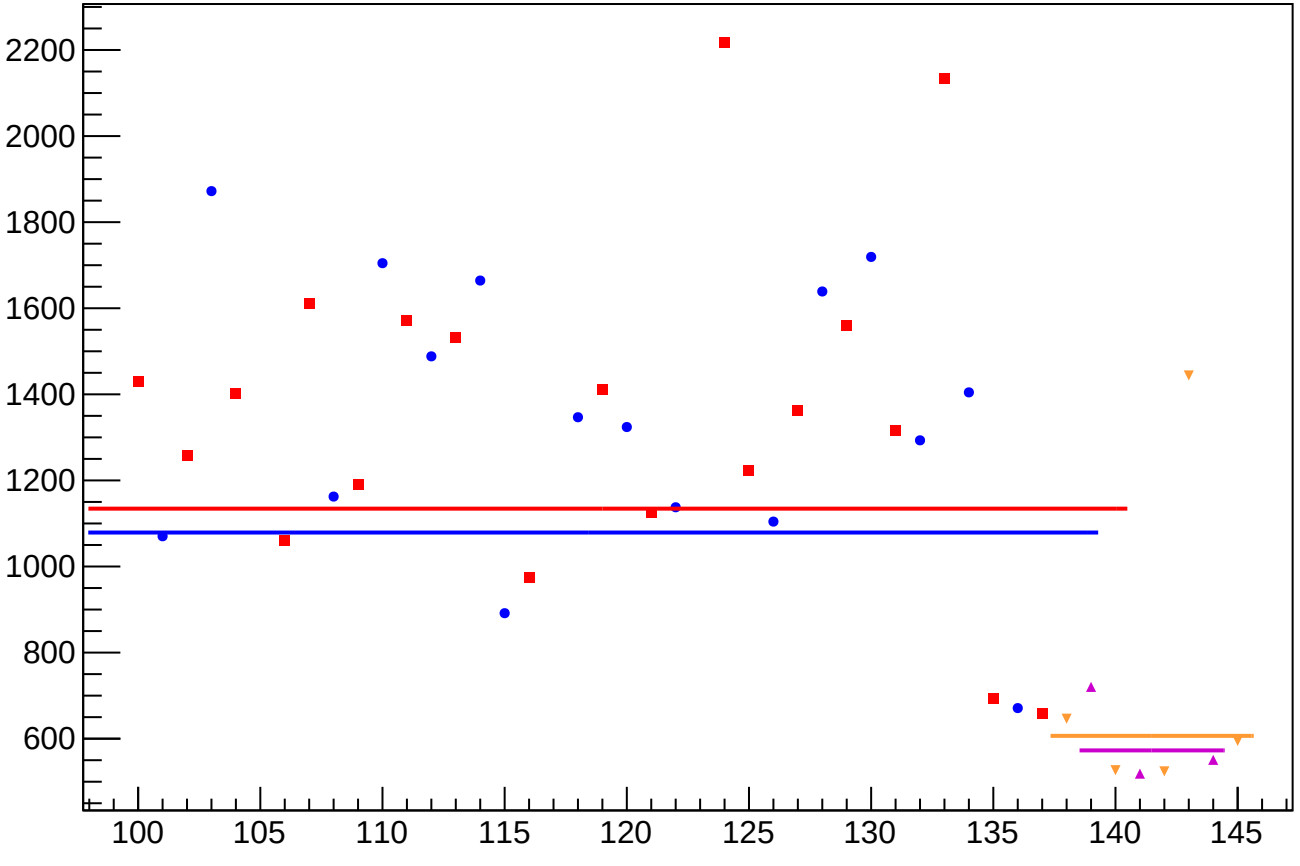
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: 258.498+/-273.747 $\chi^2$/NDF:26.2/18

Out: -381.248+/-264.935 $\chi^2$/NDF:26.5/23

All: -71.838+/-190.376 $\chi^2$/NDF: 55.5/42

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: 606.559+/-0.234 $\chi^2$/NDF:611841.7/4

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 572.766+/-0.253 $\chi^2$/NDF:92684.3/2

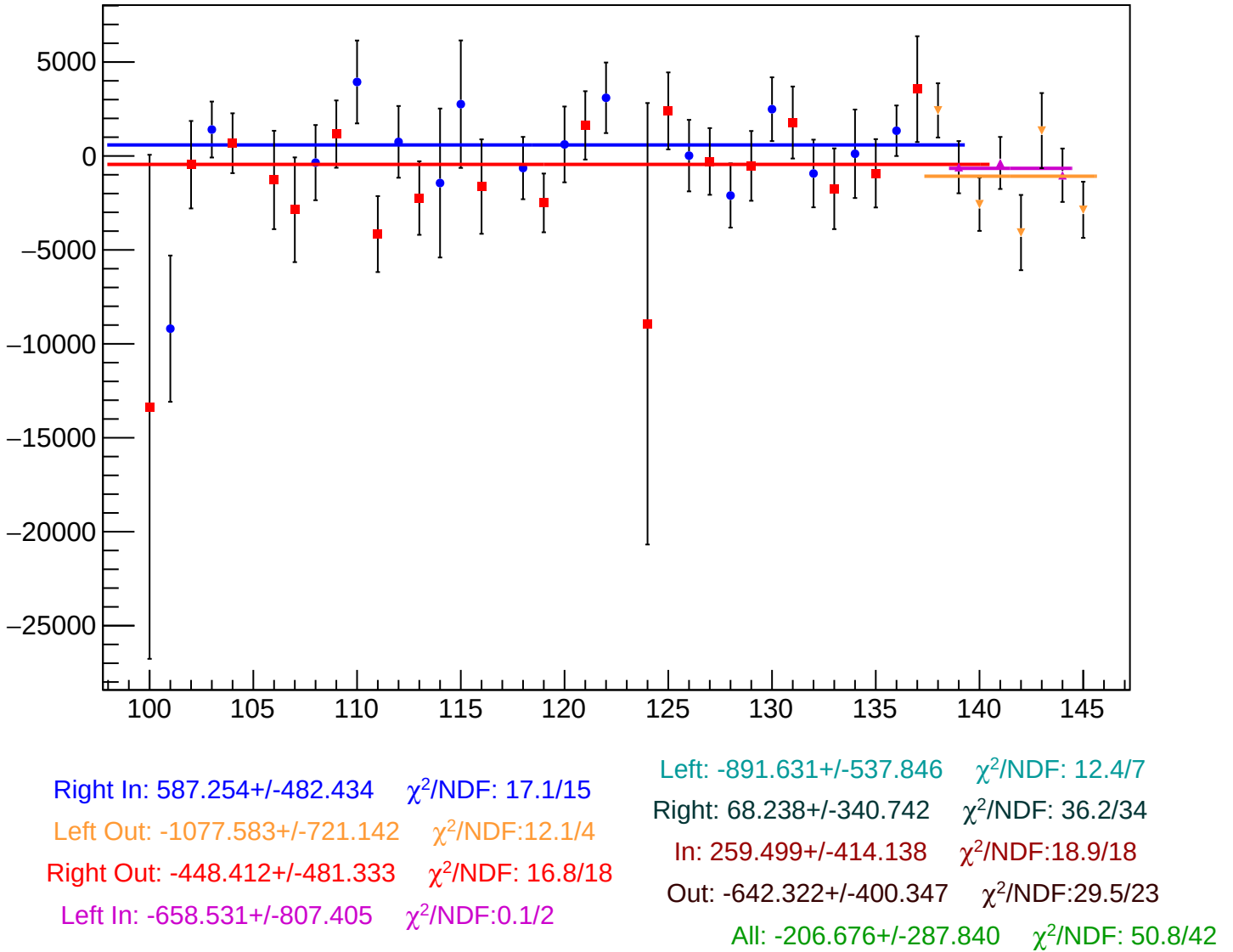
Left: 590.934+/-0.172 $\chi^2$/NDF: 714134.7/7

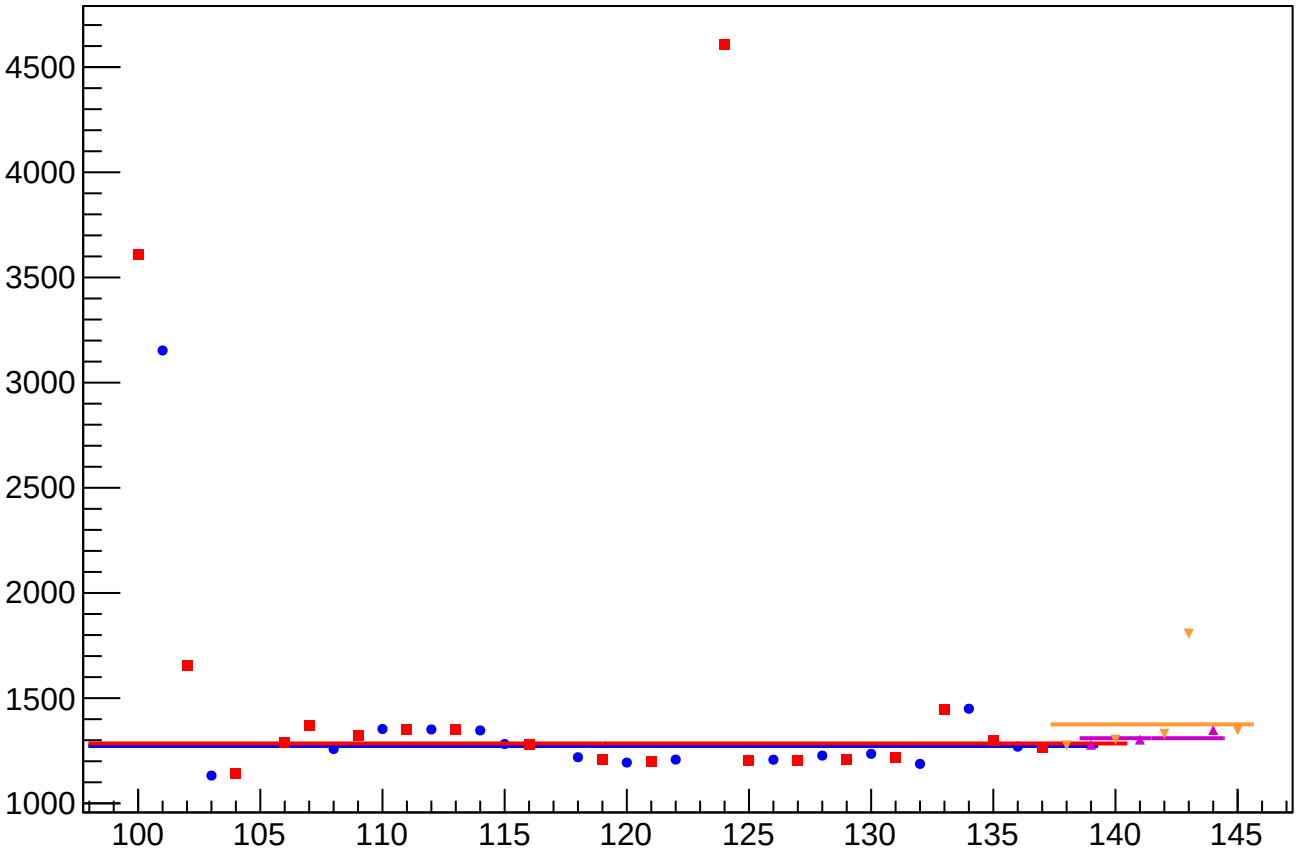
Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 782.112+/-0.194 $\chi^2$/NDF:3229802.5/18

Out: 797.282+/-0.187 $\chi^2$/NDF:3732945.1/23

All: 789.945+/-0.135 $\chi^2$/NDF: 6965918.9/42


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 587.254+/-482.434 χ²/NDF: 17.1/15
Left Out: -1077.583+/-721.142 χ²/NDF:12.1/4
Right Out: -448.412+/-481.333 χ²/NDF: 16.8/18
Left In: -658.531+/-807.405 χ²/NDF:0.1/2
Left: -891.631+/-537.846 χ²/NDF: 12.4/7
Right: 68.238+/-340.742 χ²/NDF: 36.2/34
In: 259.499+/-414.138 χ²/NDF:18.9/18
Out: -642.322+/-400.347 χ²/NDF:29.5/23
All: -206.676+/-287.840 χ²/NDF: 50.8/42




Right In: 1272.804+/-0.341 $\chi^2$/NDF: 519299.6/15

Left Out: 1375.506+/-0.510 $\chi^2$/NDF:109581.1/4

Right Out: 1284.654+/-0.340 $\chi^2$/NDF: 328734.9/18

Left In: 1309.552+/-0.571 $\chi^2$/NDF:2556.9/2

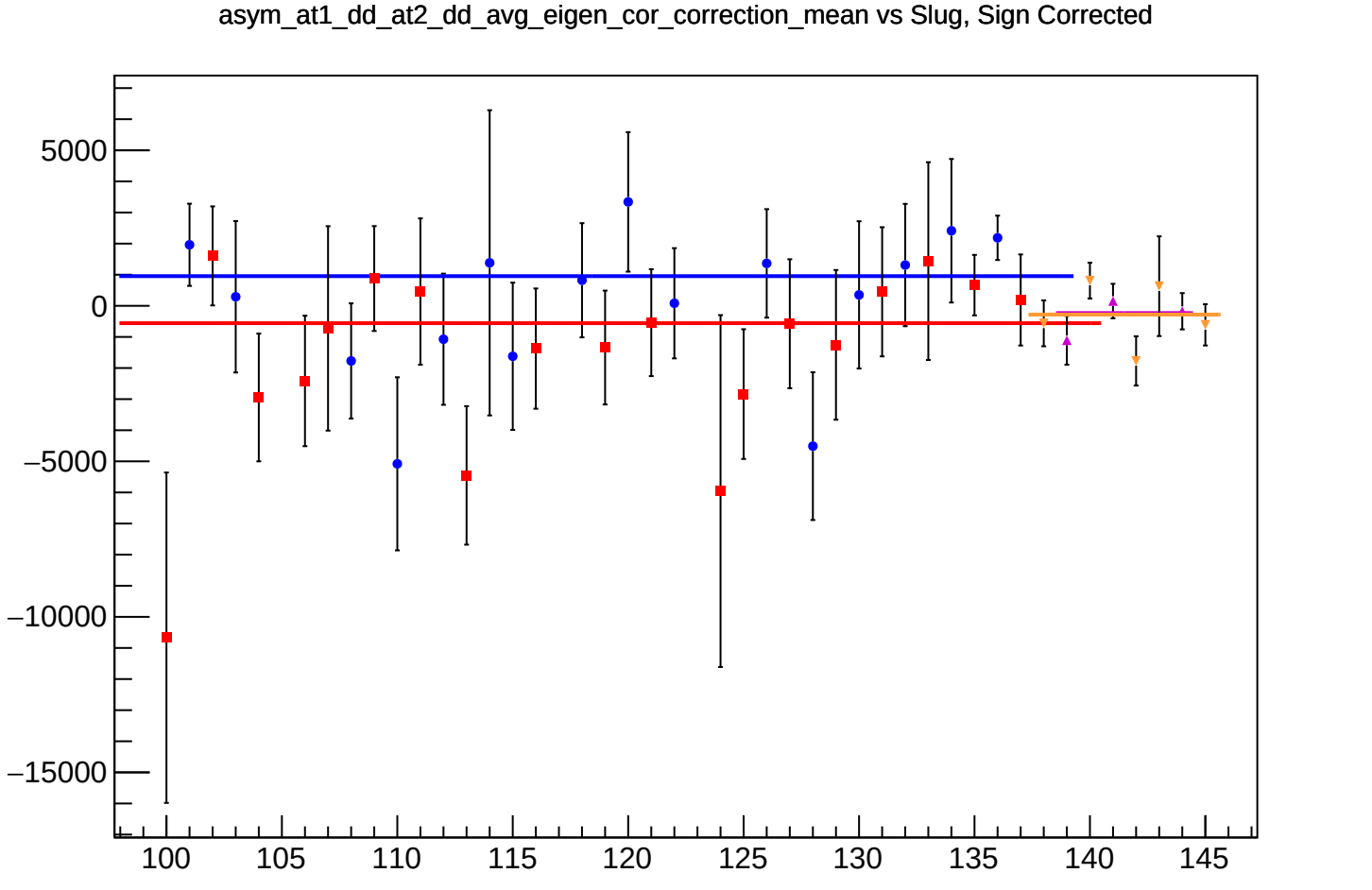
Left: 1346.239+/-0.380 $\chi^2$/NDF: 119561.5/7

Right: 1278.743+/-0.241 $\chi^2$/NDF: 848639.3/34

In: 1282.472+/-0.293 $\chi^2$/NDF:524909.4/18

Out: 1312.654+/-0.283 $\chi^2$/NDF:460276.3/23

All: 1298.074+/-0.204 $\chi^2$/NDF: 990677.1/42




Right In: 954.146+/-425.660 $\chi^2$/NDF: 19.9/15

Left Out: -281.296+/-331.508 $\chi^2$/NDF:7.9/4

Right Out: -557.935+/-440.758 $\chi^2$/NDF: 18.4/18

Left In: -232.142+/-357.478 $\chi^2$/NDF:1.7/2

Left: -258.569+/-243.075 $\chi^2$/NDF: 9.6/7

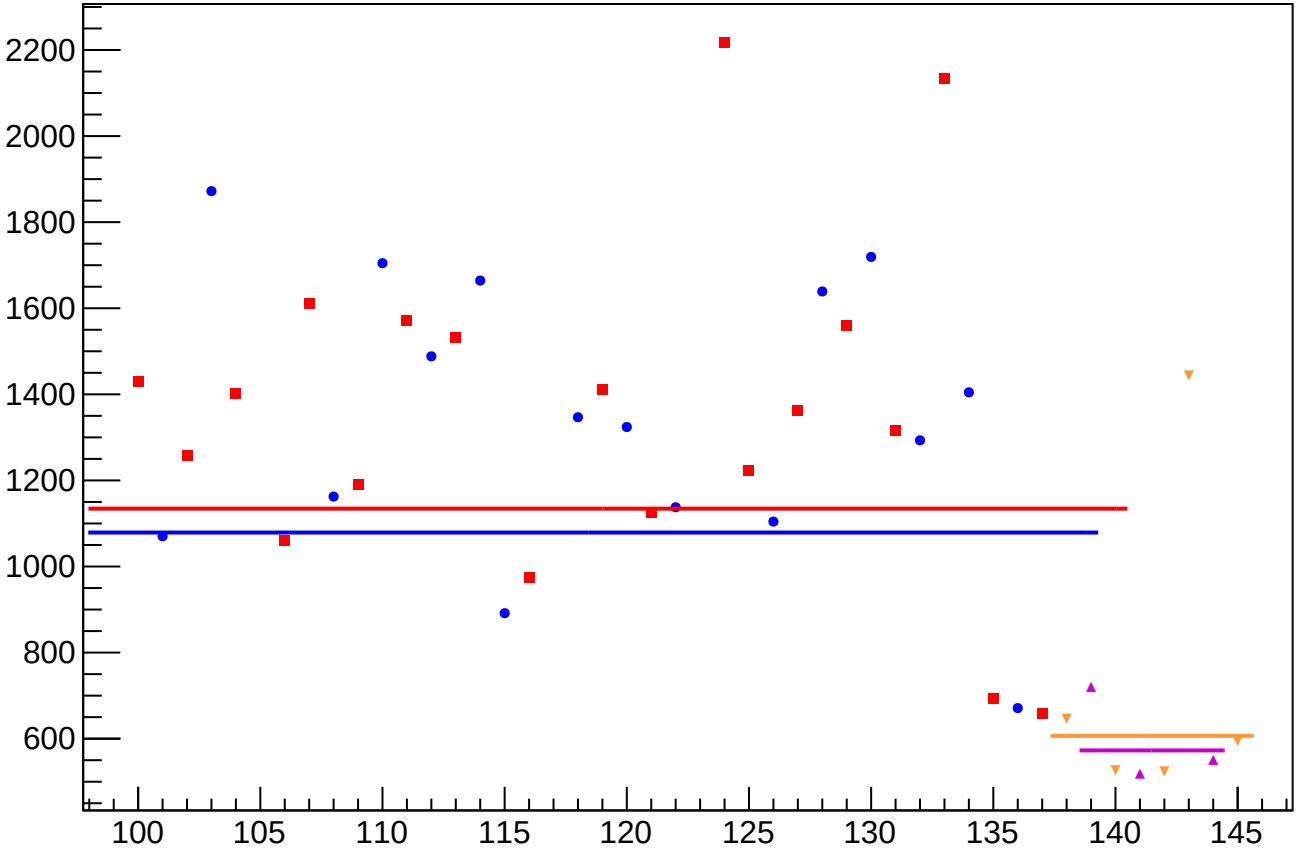
Right: 224.446+/-306.186 $\chi^2$/NDF: 44.3/34

In: 258.498+/-273.747 $\chi^2$/NDF:26.2/18

Out: -381.248+/-264.935 $\chi^2$/NDF:26.5/23

All: -71.838+/-190.376 $\chi^2$/NDF: 55.5/42

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: 606.559+/-0.234 $\chi^2$/NDF:611841.7/4

Right Out: 1134.428+/-0.312 $\chi^2$/NDF: 1288899.2/18

Left In: 572.766+/-0.253 $\chi^2$/NDF:92684.3/2

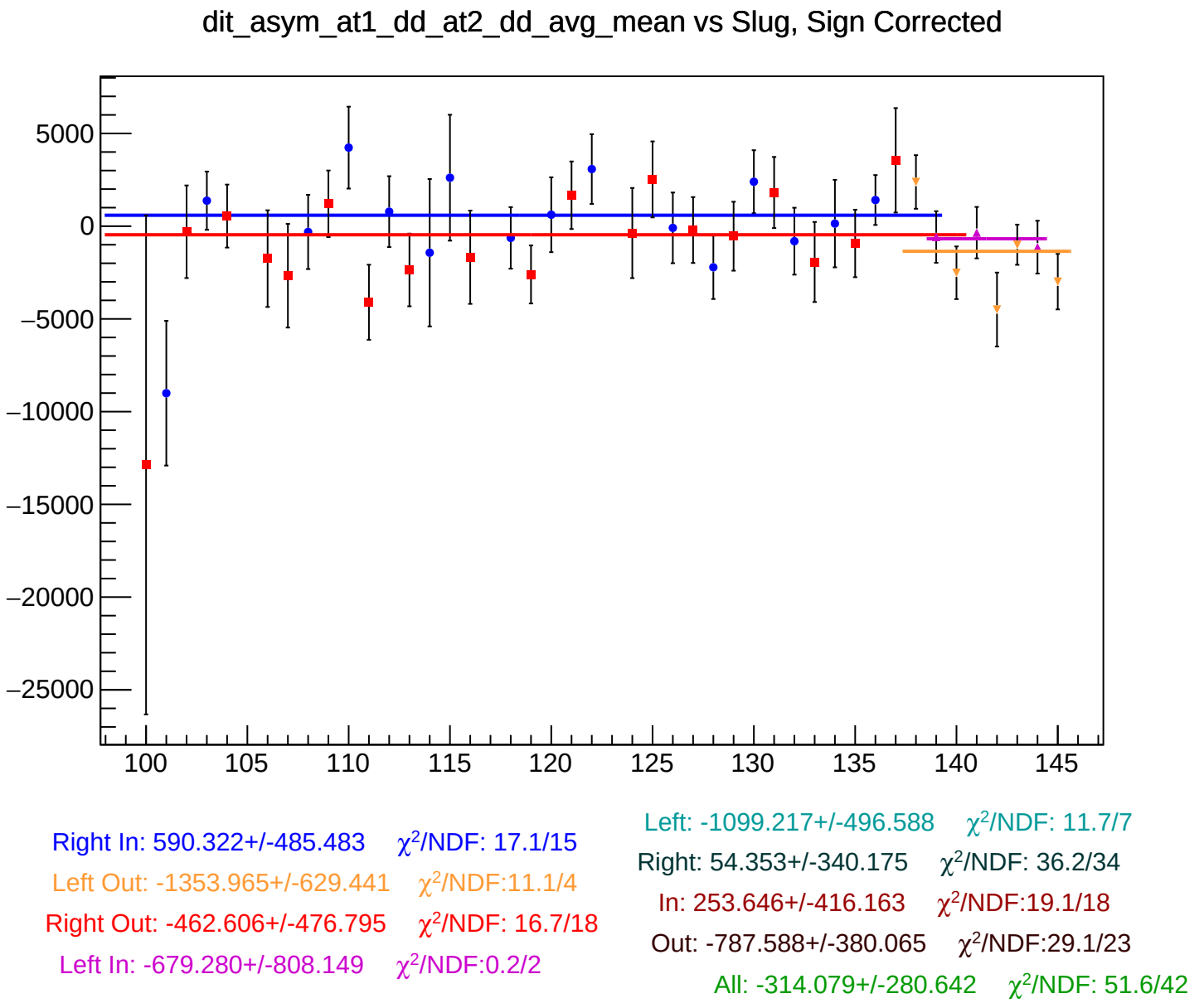
Left: 590.934+/-0.172 $\chi^2$/NDF: 714134.7/7

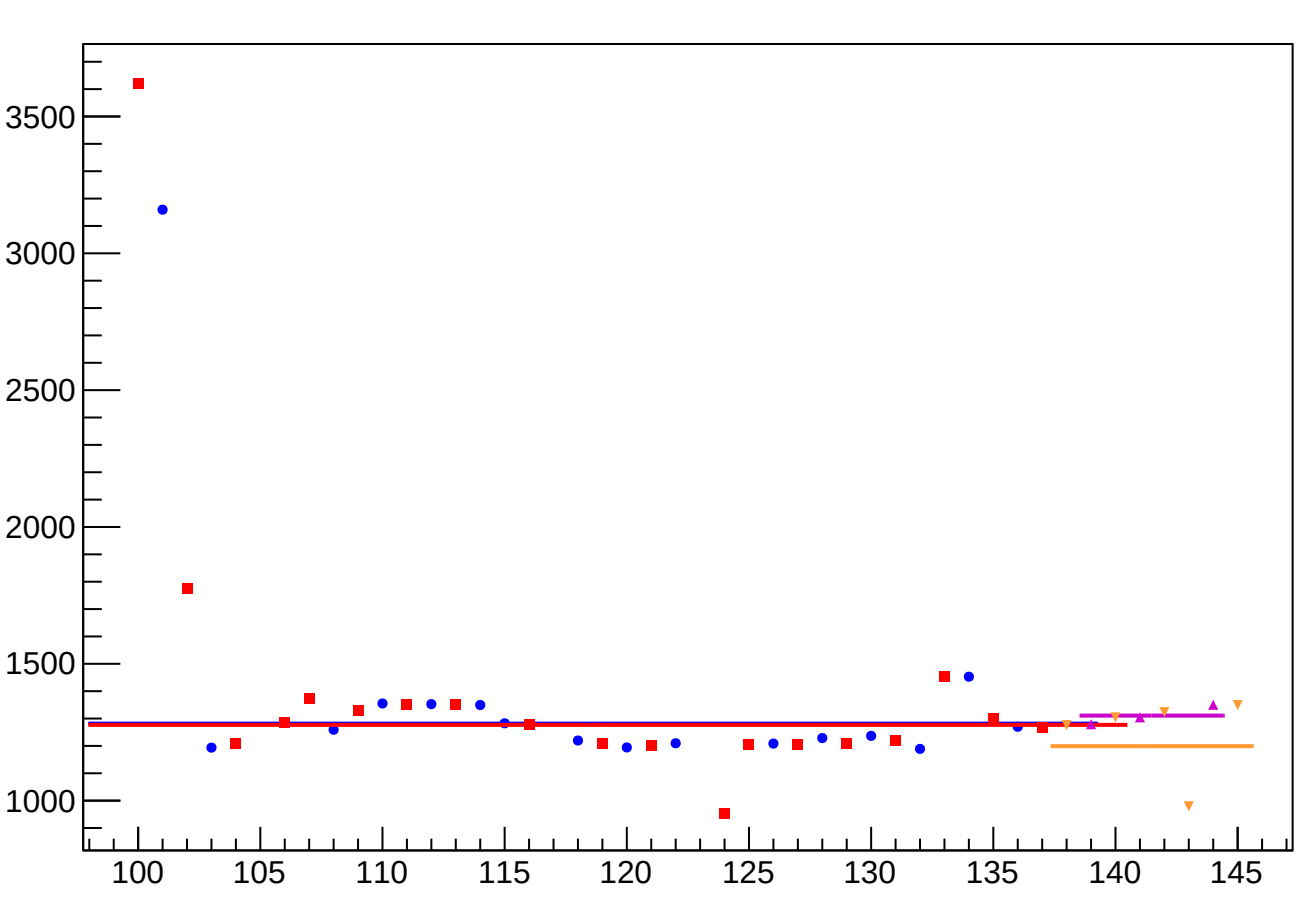
Right: 1105.713+/-0.217 $\chi^2$/NDF: 2784024.9/34

In: 782.112+/-0.194 $\chi^2$/NDF:3229802.5/18

Out: 797.282+/-0.187 $\chi^2$/NDF:3732945.1/23

All: 789.945+/-0.135 $\chi^2$/NDF: 6965918.9/42


dit_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 590.322+/-485.483 χ²/NDF: 17.1/15
Left Out: -1353.965+/-629.441 χ²/NDF:11.1/4
Right Out: -462.606+/-476.795 χ²/NDF: 16.7/18
Left In: -679.280+/-808.149 χ²/NDF:0.2/2
Left: -1099.217+/-496.588 χ²/NDF: 11.7/7
Right: 54.353+/-340.175 χ²/NDF: 36.2/34
In: 253.646+/-416.163 χ²/NDF:19.1/18
Out: -787.588+/-380.065 χ²/NDF:29.1/23
All: -314.079+/-280.642 χ²/NDF: 51.6/42




Right In: 1281.369+/-0.343 $\chi^2$/NDF: 507078.4/15

Left Out: 1199.041+/-0.445 $\chi^2$/NDF:126662.9/4

Right Out: 1276.860+/-0.337 $\chi^2$/NDF: 220513.6/18

Left In: 1310.746+/-0.571 $\chi^2$/NDF:2615.4/2

Left: 1241.218+/-0.351 $\chi^2$/NDF: 153061.6/7

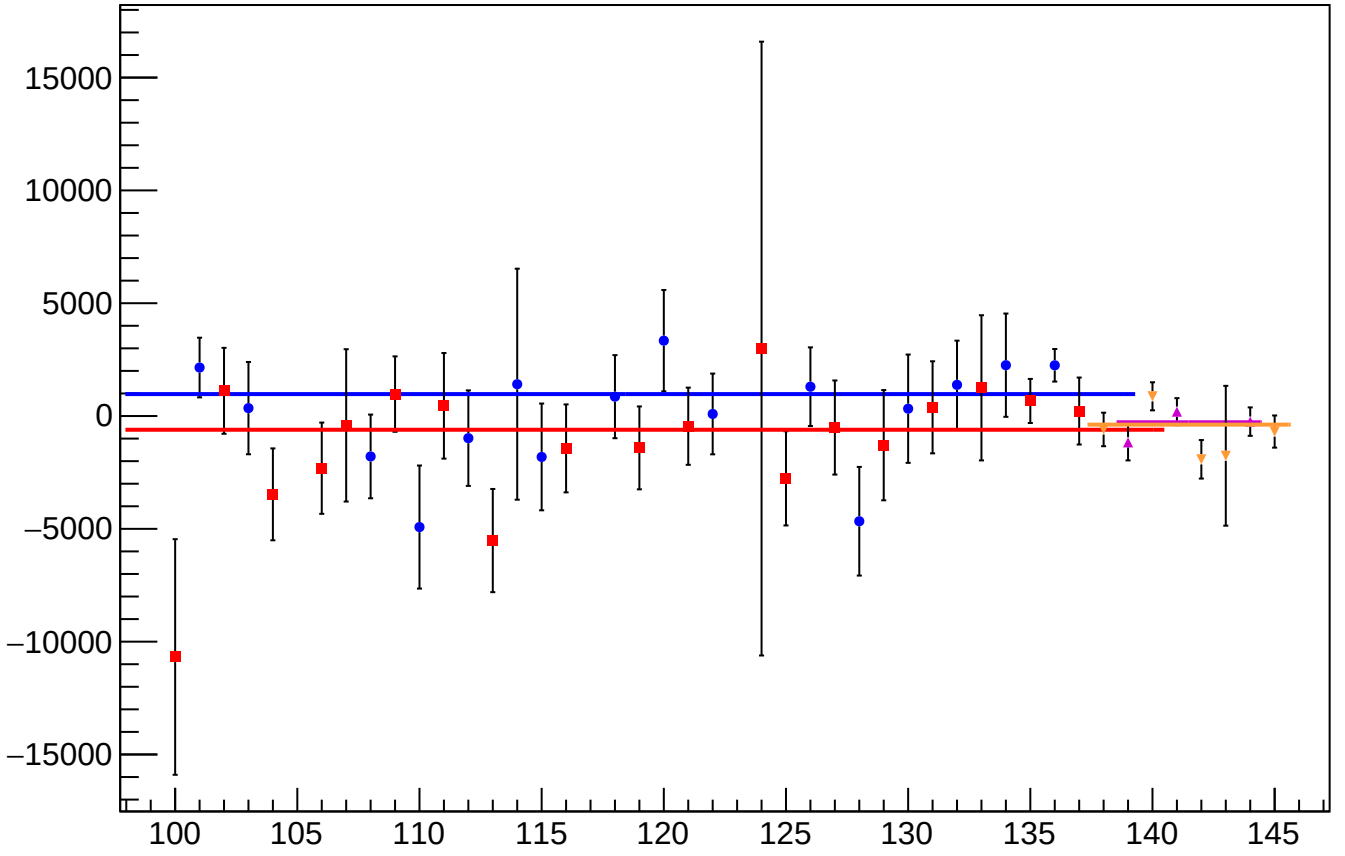
Right: 1279.074+/-0.241 $\chi^2$/NDF: 727679.9/34

In: 1289.159+/-0.294 $\chi^2$/NDF:511635.8/18

Out: 1248.488+/-0.269 $\chi^2$/NDF:366600.9/23

All: 1266.983+/-0.198 $\chi^2$/NDF: 888651.8/42

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: -380.599+/-357.013 $\chi^2$/NDF:7.8/4

Right Out: -608.431+/-447.734 $\chi^2$/NDF: 17.1/18

Left In: -277.127+/-381.529 $\chi^2$/NDF:1.9/2

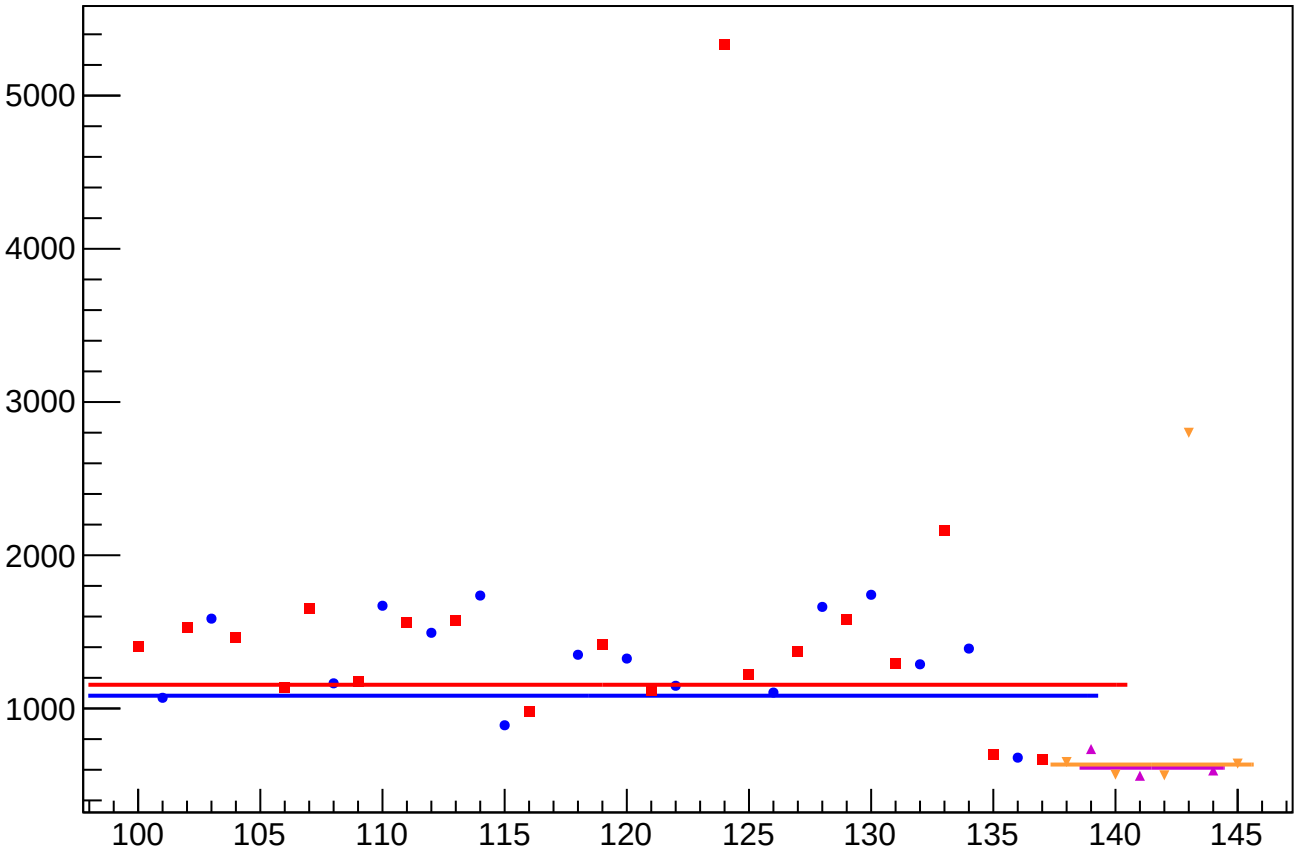
Left: -332.294+/-260.683 $\chi^2$/NDF: 9.7/7

Right: 222.671+/-308.328 $\chi^2$/NDF: 44.1/34

In: 280.116+/-283.976 $\chi^2$/NDF:27.1/18

Out: -469.153+/-279.137 $\chi^2$/NDF:25.1/23

All: -100.956+/-199.068 $\chi^2$/NDF: 55.7/42




Right In: 1083.335+/-0.301 $\chi^2$/NDF: 1360153.3/15

Left Out: 634.064+/-0.252 $\chi^2$/NDF:1013459.5/4

Right Out: 1154.724+/-0.317 $\chi^2$/NDF: 1488304.5/18

Left In: 613.289+/-0.270 $\chi^2$/NDF:63272.6/2

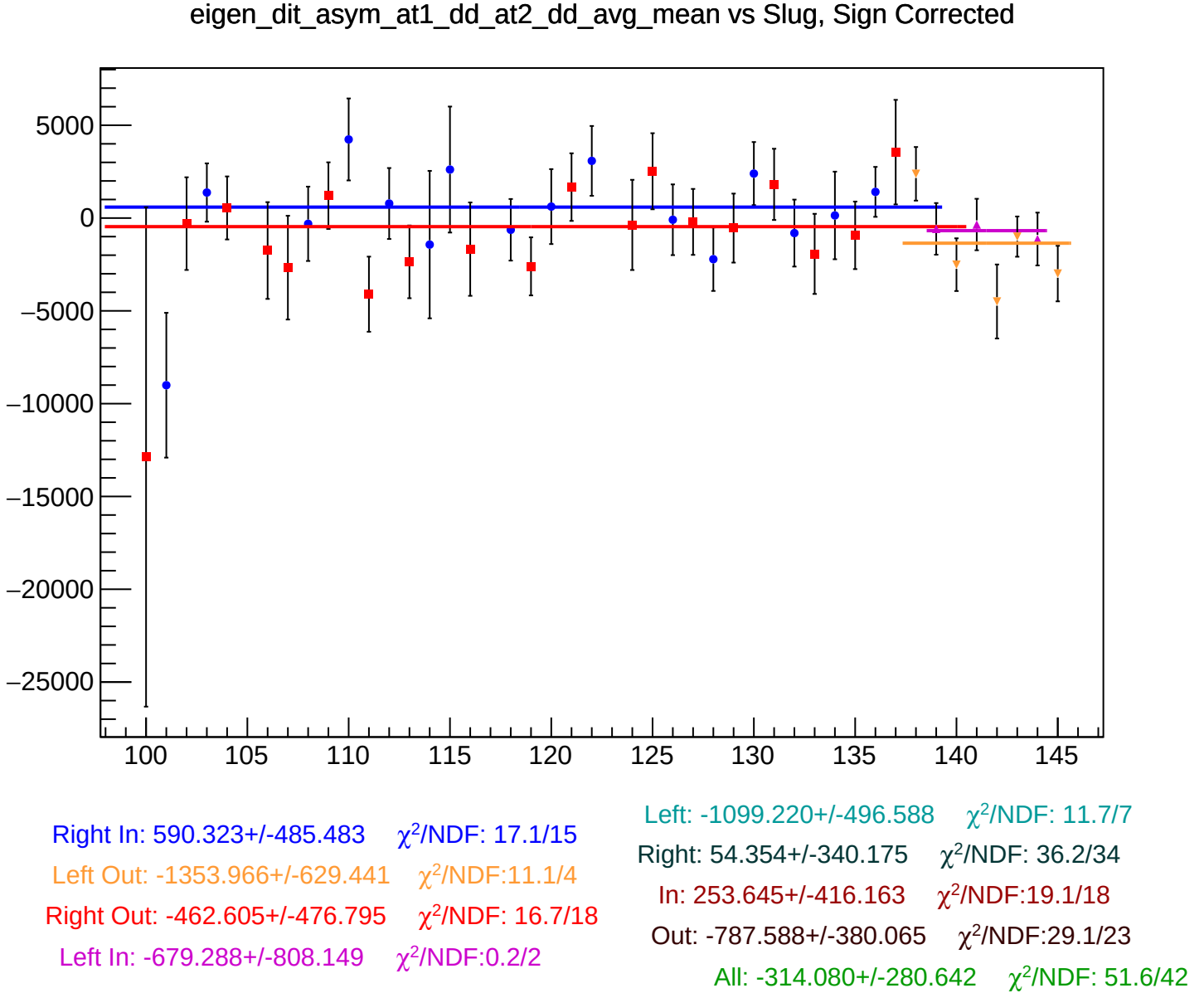
Left: 624.365+/-0.184 $\chi^2$/NDF: 1079893.7/7

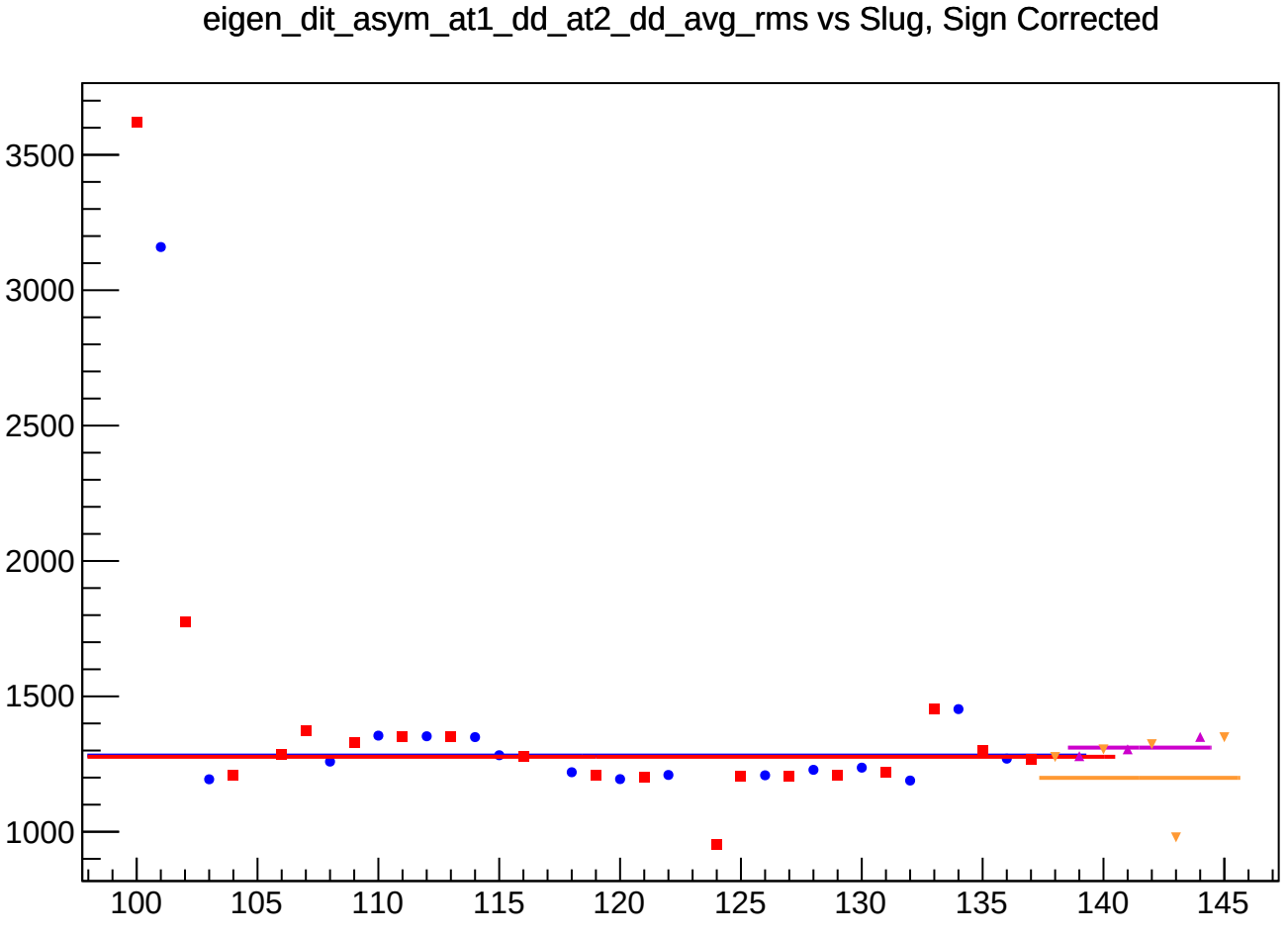
Right: 1117.189+/-0.218 $\chi^2$/NDF: 2875191.7/34

In: 822.931+/-0.201 $\chi^2$/NDF:2777343.9/18

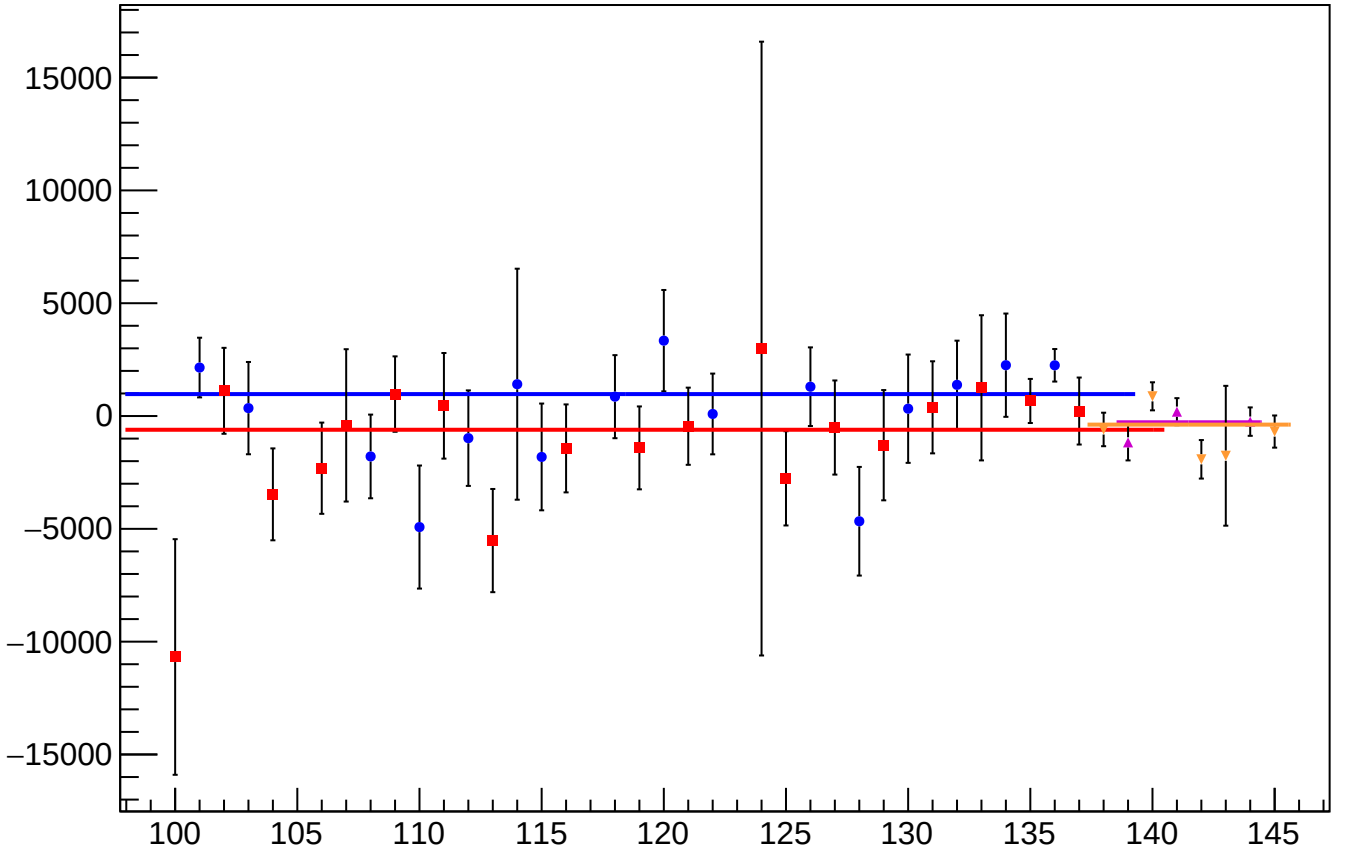
Out: 836.436+/-0.197 $\chi^2$/NDF:4155115.9/23

All: 829.799+/-0.141 $\chi^2$/NDF: 6934760.2/42


eigen_dit_asym_at1_dd_at2_dd_avg_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 590.323+/-485.483 χ²/NDF: 17.1/15
Left Out: -1353.966+/-629.441 χ²/NDF:11.1/4
Right Out: -462.605+/-476.795 χ²/NDF: 16.7/18
Left In: -679.288+/-808.149 χ²/NDF:0.2/2
Left: -1099.220+/-496.588 χ²/NDF: 11.7/7
Right: 54.354+/-340.175 χ²/NDF: 36.2/34
In: 253.645+/-416.163 χ²/NDF:19.1/18
Out: -787.588+/-380.065 χ²/NDF:29.1/23
All: -314.080+/-280.642 χ²/NDF: 51.6/42


eigen_dit_asym_at1_dd_at2_dd_avg_rms vs Slug, Sign Corrected
3500
3000
2500
2000
1500
1000
100
105
110
115
120
125
130
135
140
145
Right In: 1281.369+/-0.343 χ²/NDF: 507078.6/15
Left Out: 1199.041+/-0.445 χ²/NDF:126662.3/4
Right Out: 1276.860+/-0.337 χ²/NDF: 220513.5/18
Left In: 1310.746+/-0.571 χ²/NDF:2615.4/2
Left: 1241.219+/-0.351 χ²/NDF: 153060.8/7
Right: 1279.074+/-0.241 χ²/NDF: 727679.9/34
In: 1289.159+/-0.294 χ²/NDF:511635.9/18
Out: 1248.488+/-0.269 χ²/NDF:366599.9/23
All: 1266.983+/-0.198 χ²/NDF: 888650.9/42

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: -380.603+/-357.015 $\chi^2$/NDF:7.8/4

Right Out: -608.441+/-447.736 $\chi^2$/NDF: 17.1/18

Left In: -277.126+/-381.531 $\chi^2$/NDF:1.9/2

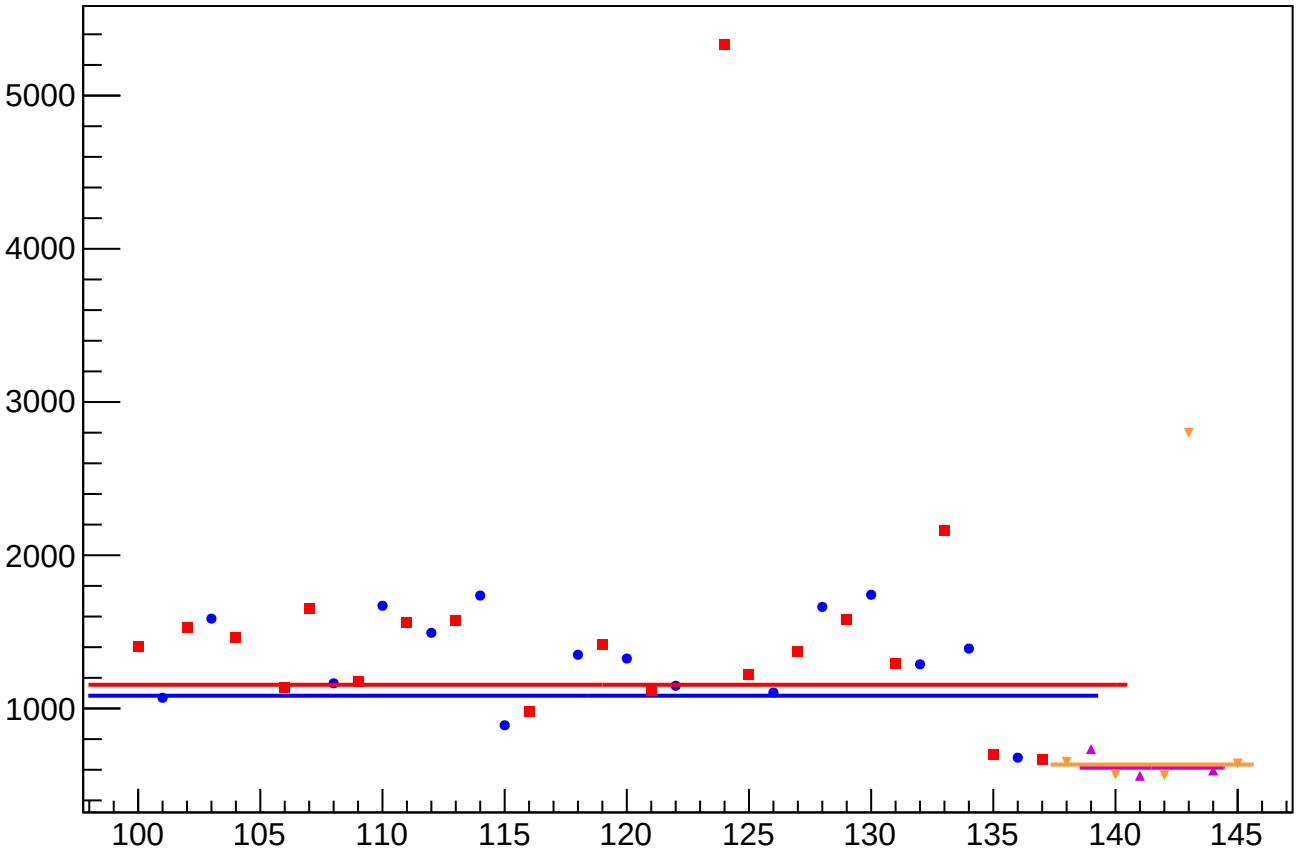
Left: -332.296+/-260.684 $\chi^2$/NDF: 9.7/7

Right: 222.664+/-308.329 $\chi^2$/NDF: 44.1/34

In: 280.114+/-283.977 $\chi^2$/NDF:27.1/18

Out: -469.160+/-279.139 $\chi^2$/NDF:25.1/23

All: -100.960+/-199.069 $\chi^2$/NDF: 55.7/42




Right In: 1083.341+/-0.301 $\chi^2$/NDF: 1360095.7/15

Left Out: 634.068+/-0.252 $\chi^2$/NDF:1013458.0/4

Right Out: 1154.732+/-0.317 $\chi^2$/NDF: 1488251.4/18

Left In: 613.291+/-0.270 $\chi^2$/NDF:63279.1/2

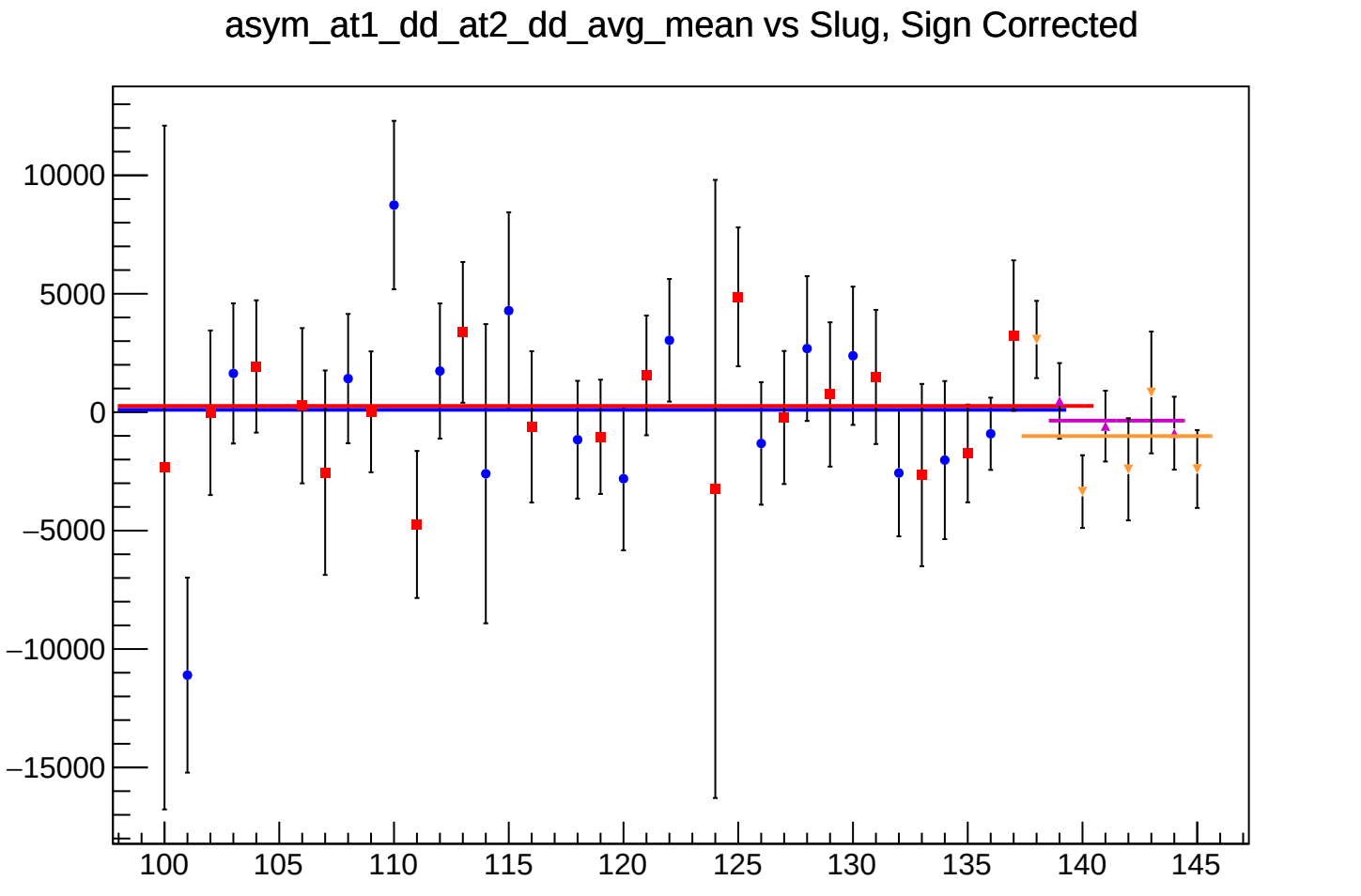
Left: 624.368+/-0.184 $\chi^2$/NDF: 1079899.2/7

Right: 1117.196+/-0.218 $\chi^2$/NDF: 2875081.4/34

In: 822.935+/-0.201 $\chi^2$/NDF:2777308.1/18

Out: 836.441+/-0.197 $\chi^2$/NDF:4155069.3/23

All: 829.804+/-0.141 $\chi^2$/NDF: 6934678.3/42




Right In: 100.451+/-698.983 $\chi^2$/NDF: 21.3/15

Left Out: -1008.541+/-806.880 $\chi^2$/NDF:10.2/4

Right Out: 262.731+/-699.724 $\chi^2$/NDF: 10.3/18

Left In: -356.727+/-890.495 $\chi^2$/NDF:0.4/2

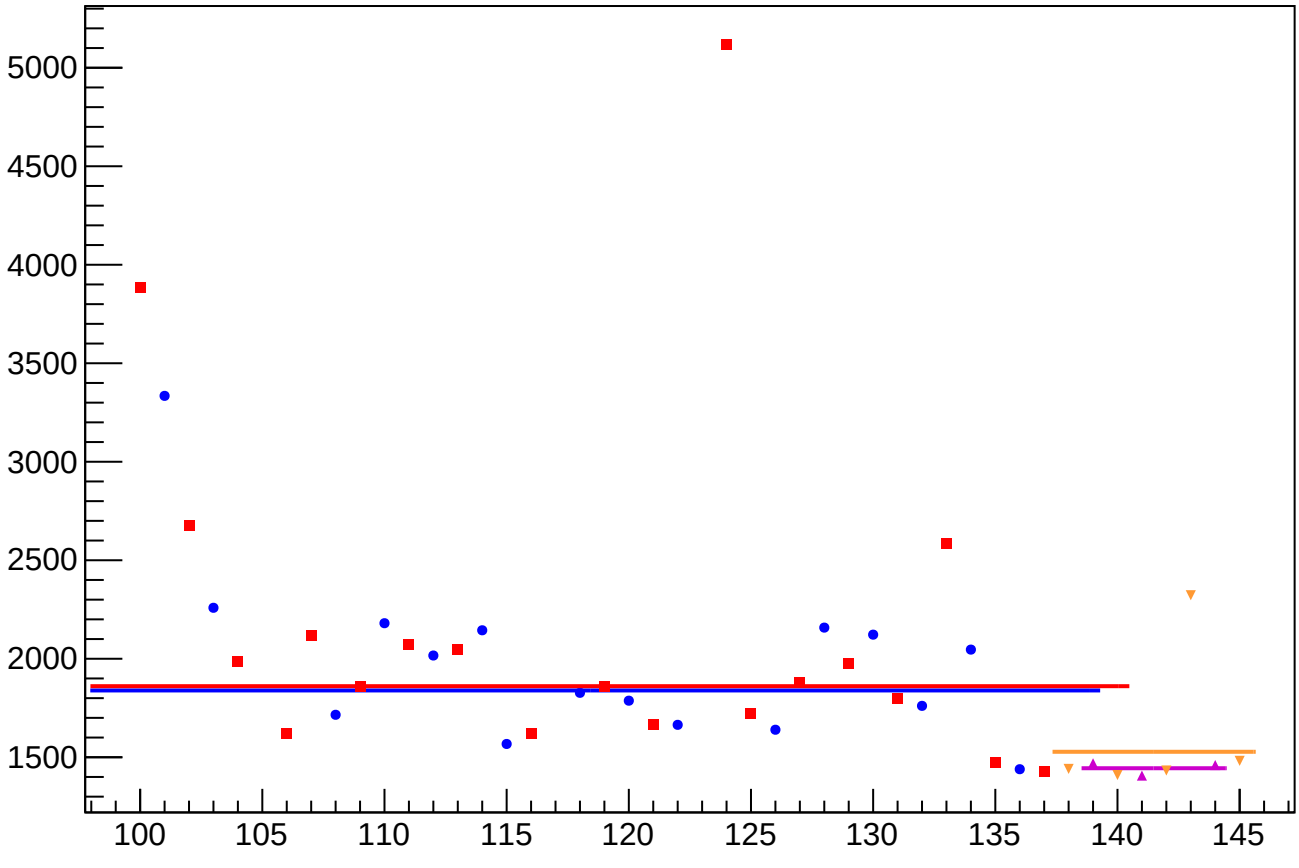
Left: -714.666+/-597.931 $\chi^2$/NDF: 10.9/7

Right: 181.505+/-494.518 $\chi^2$/NDF: 31.6/34

In: -73.842+/-549.831 $\chi^2$/NDF:21.9/18

Out: -282.942+/-528.635 $\chi^2$/NDF:22.0/23

All: -182.500+/-381.074 $\chi^2$/NDF: 43.9/42




Right In: 1839.113+/-0.494 $\chi^2$/NDF: 556725.4/15

Left Out: 1527.769+/-0.571 $\chi^2$/NDF:213831.0/4

Right Out: 1860.754+/-0.495 $\chi^2$/NDF: 522114.2/18

Left In: 1444.268+/-0.630 $\chi^2$/NDF:1963.8/2

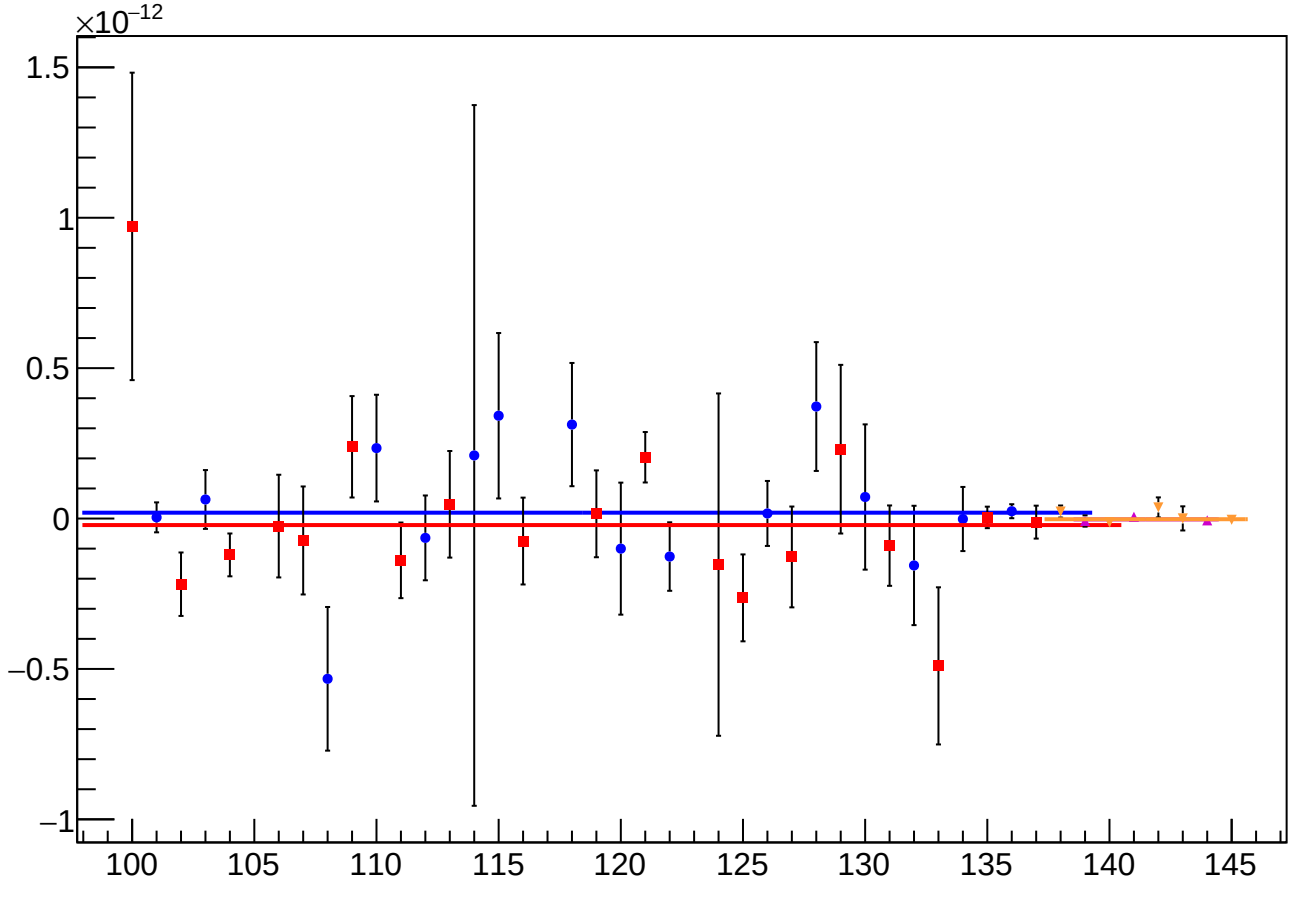
Left: 1490.122+/-0.423 $\chi^2$/NDF: 225451.4/7

Right: 1849.922+/-0.350 $\chi^2$/NDF: 1079797.1/34

In: 1688.584+/-0.389 $\chi^2$/NDF:801990.6/18

Out: 1717.827+/-0.374 $\chi^2$/NDF:930357.4/23

All: 1703.780+/-0.269 $\chi^2$/NDF: 1735287.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.4/2

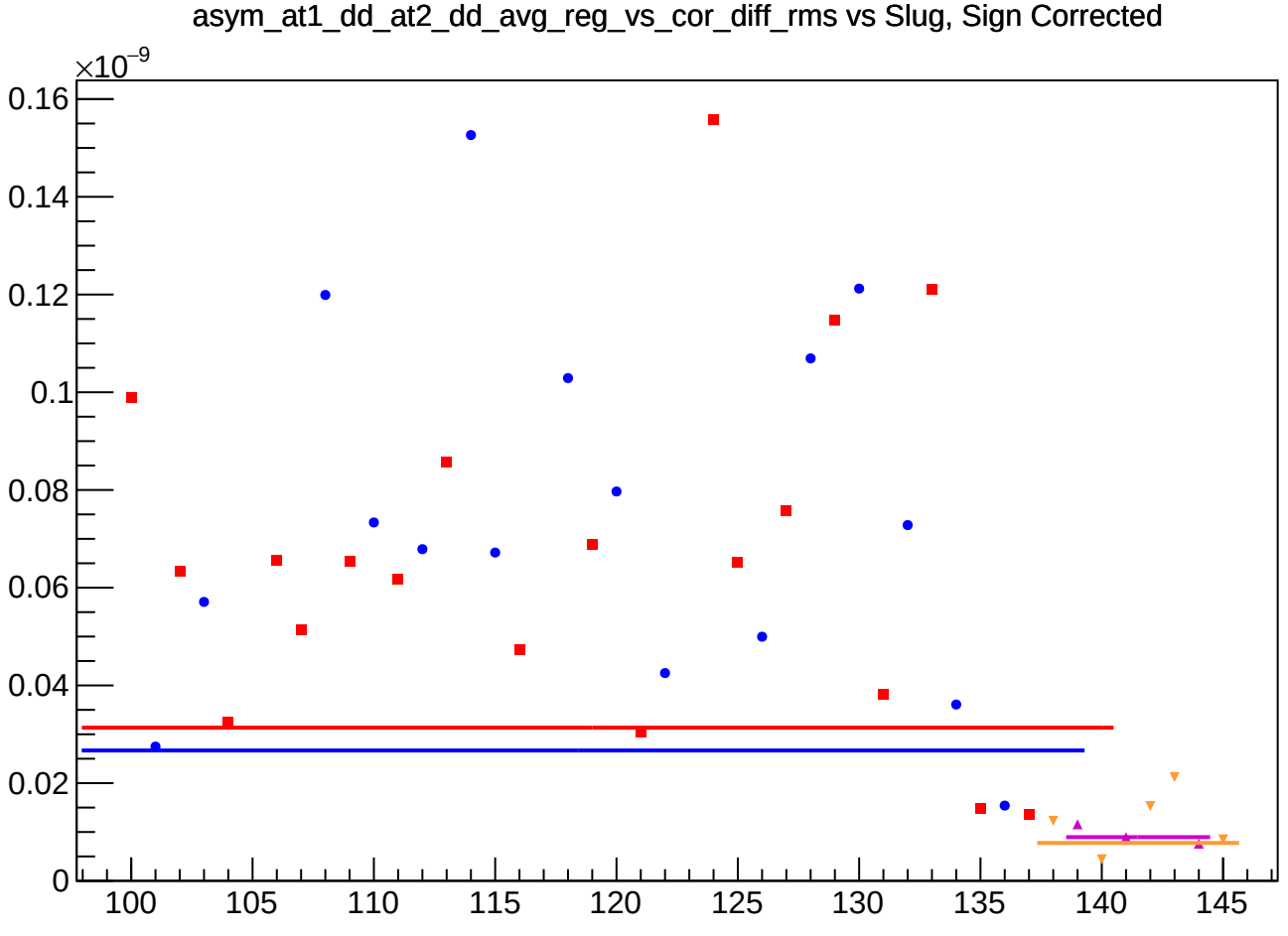
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 46.7/34

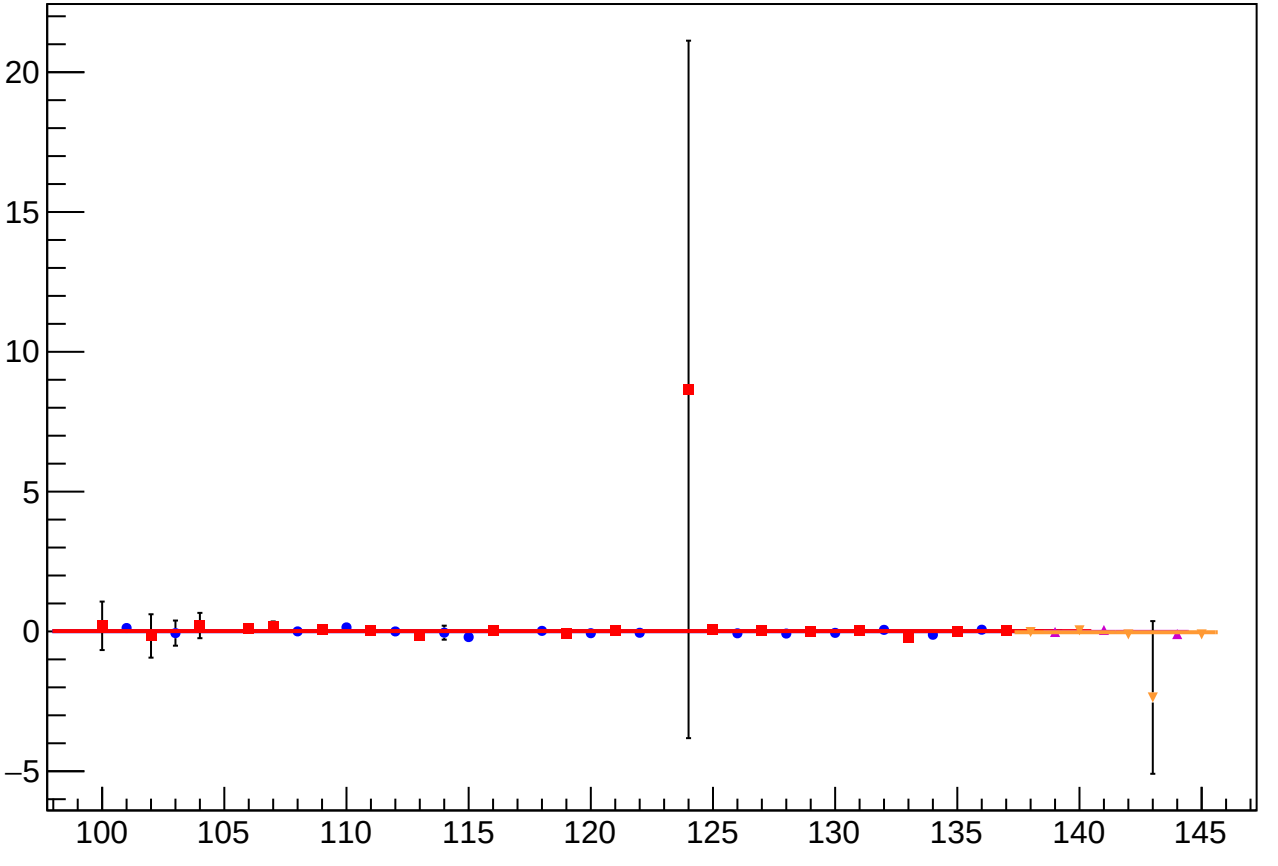
In: 0.000+/-0.000 $\chi^2$/NDF:18.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:32.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 51.1/42


asym_at1_dd_at2_dd_avg_reg_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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2580672.1/15
Left Out: 0.000+/-0.000 χ²/NDF:629833.4/4
Right Out: 0.000+/-0.000 χ²/NDF: 2275167.3/18
Left In: 0.000+/-0.000 χ²/NDF:59789.1/2
Left: 0.000+/-0.000 χ²/NDF: 709510.4/7
Right: 0.000+/-0.000 χ²/NDF: 4906978.5/34
In: 0.000+/-0.000 χ²/NDF:4086049.9/18
Out: 0.000+/-0.000 χ²/NDF:4907065.9/23
All: 0.000+/-0.000 χ²/NDF: 9062229.9/42

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: -0.029+/-0.023 $\chi^2$/NDF:4.9/4

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.015+/-0.023 $\chi^2$/NDF:3.3/2

Left: -0.022+/-0.016 $\chi^2$/NDF: 8.3/7

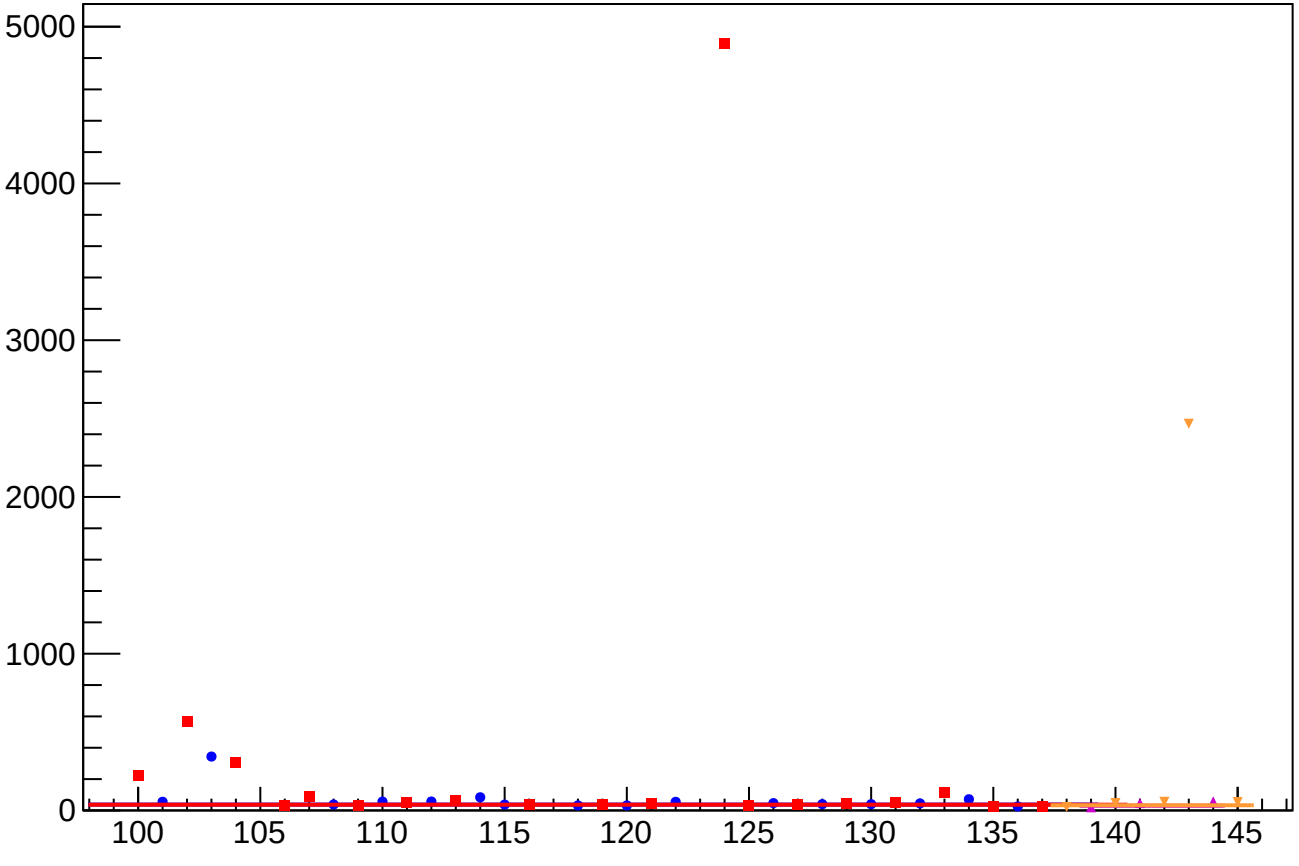
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: 0.000+/-0.013 $\chi^2$/NDF:23.2/18

Out: -0.002+/-0.013 $\chi^2$/NDF:19.7/23

All: -0.001+/-0.009 $\chi^2$/NDF: 42.9/42

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: 33.091+/-0.016 $\chi^2$/NDF:2371298.2/4

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 30.222+/-0.016 $\chi^2$/NDF:858946.8/2

Left: 31.661+/-0.011 $\chi^2$/NDF: 3246447.3/7

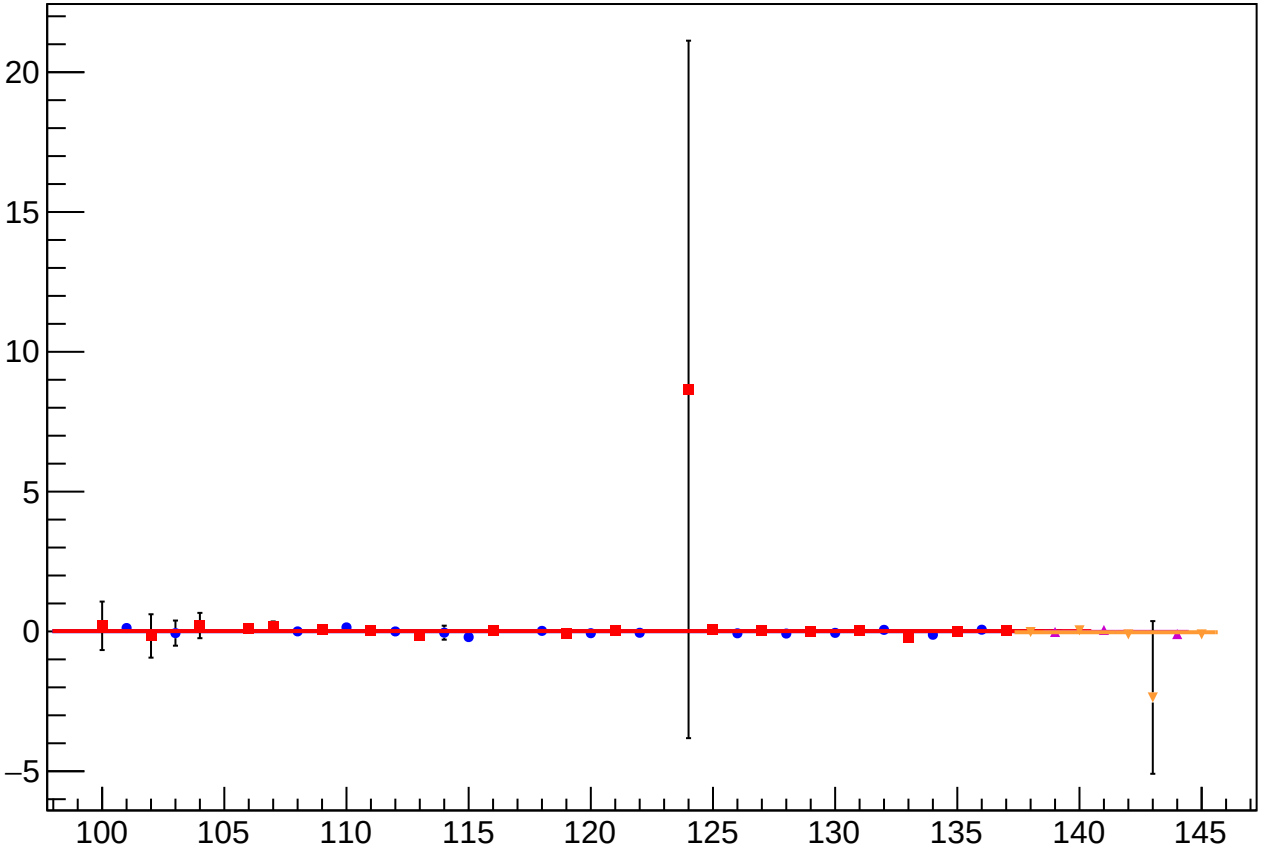
Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 35.048+/-0.009 $\chi^2$/NDF:2979889.0/18

Out: 35.470+/-0.009 $\chi^2$/NDF:5596525.3/23

All: 35.255+/-0.007 $\chi^2$/NDF: 8577433.9/42

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: -0.029+/-0.023 $\chi^2$/NDF:4.9/4

Right Out: 0.012+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.015+/-0.023 $\chi^2$/NDF:3.3/2

Left: -0.022+/-0.016 $\chi^2$/NDF: 8.3/7

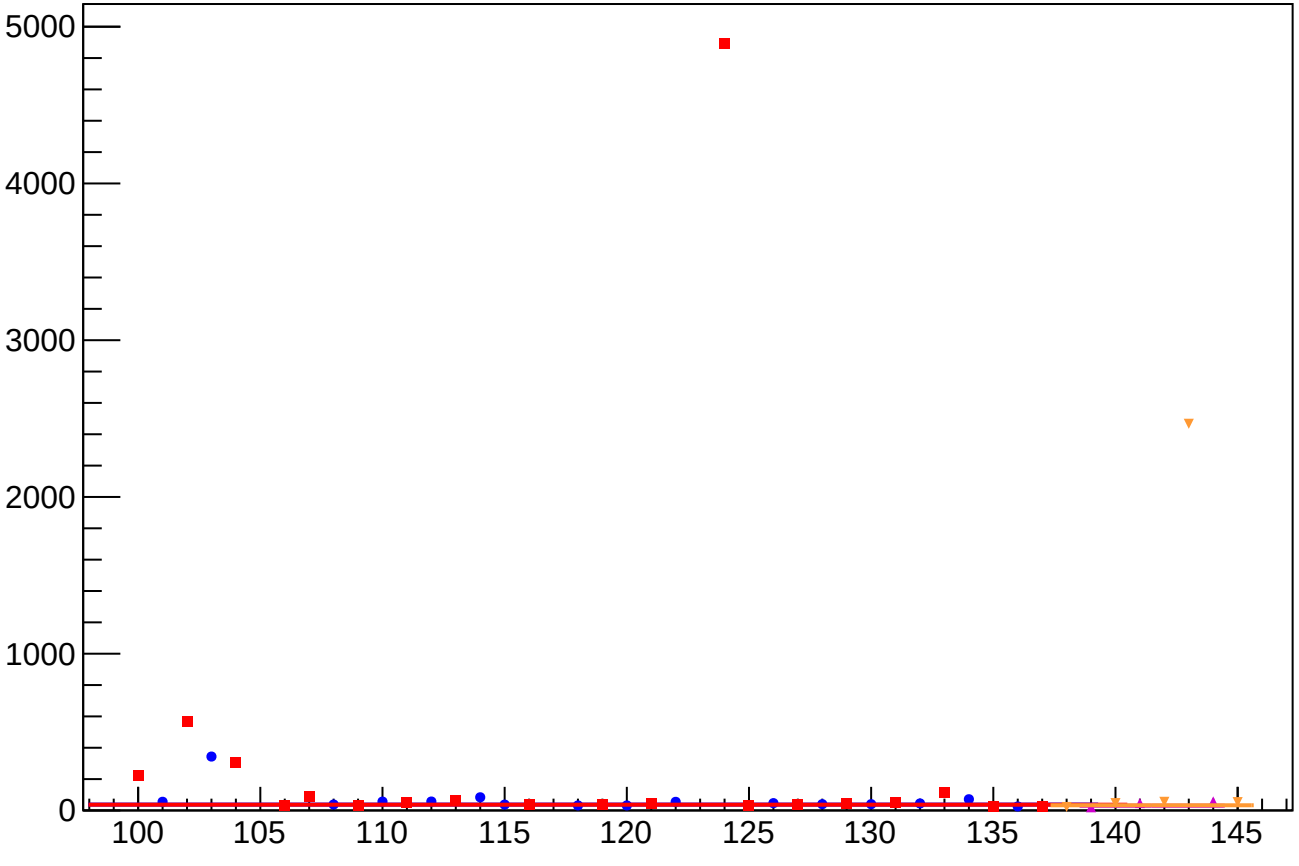
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: 0.000+/-0.013 $\chi^2$/NDF:23.2/18

Out: -0.002+/-0.013 $\chi^2$/NDF:19.7/23

All: -0.001+/-0.009 $\chi^2$/NDF: 42.9/42

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: 33.091+/-0.016 $\chi^2$/NDF:2371298.2/4

Right Out: 36.767+/-0.012 $\chi^2$/NDF: 3190700.2/18

Left In: 30.222+/-0.016 $\chi^2$/NDF:858946.8/2

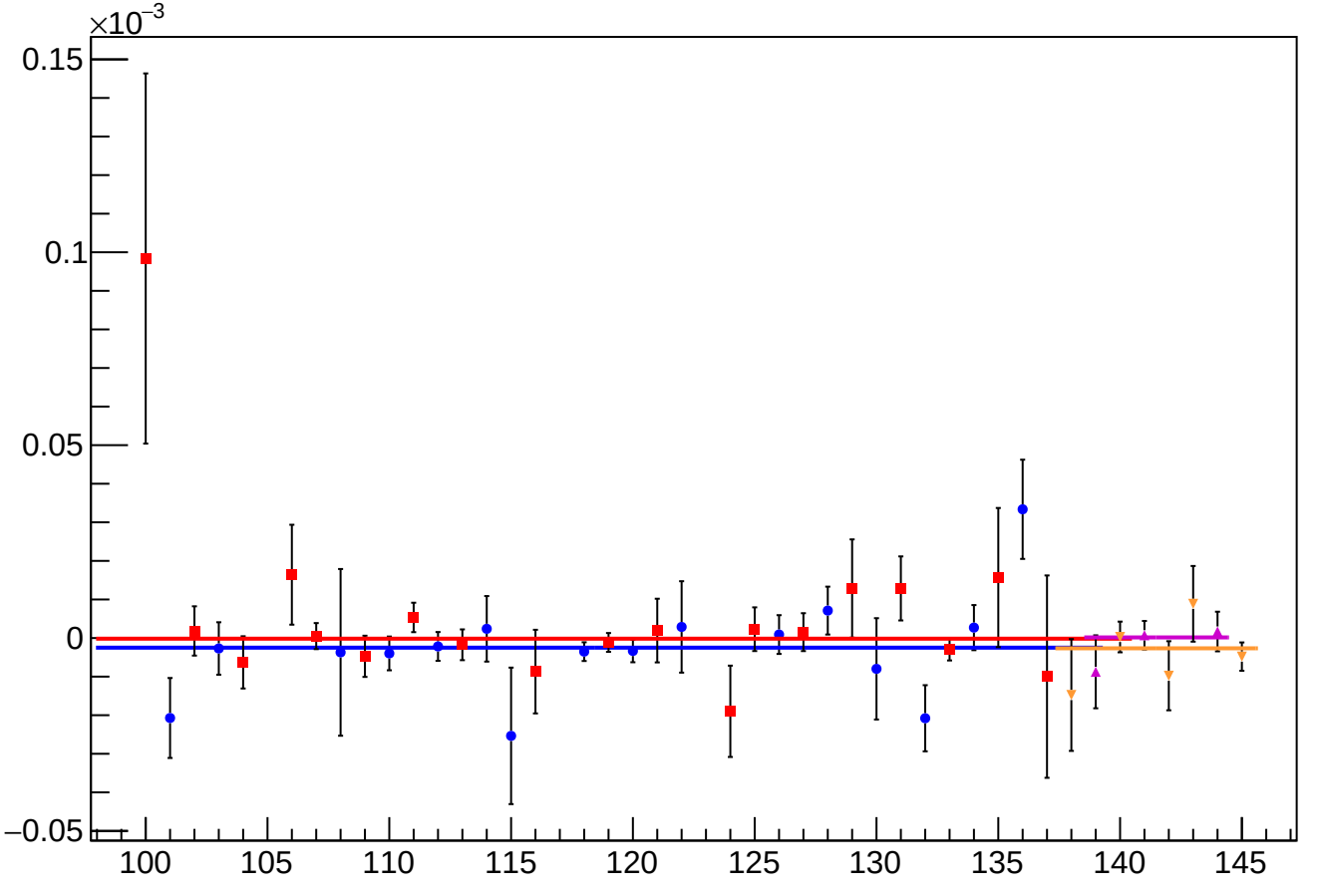
Left: 31.661+/-0.011 $\chi^2$/NDF: 3246447.3/7

Right: 37.143+/-0.008 $\chi^2$/NDF: 5175953.4/34

In: 35.048+/-0.009 $\chi^2$/NDF:2979889.0/18

Out: 35.470+/-0.009 $\chi^2$/NDF:5596525.3/23

All: 35.255+/-0.007 $\chi^2$/NDF: 8577433.9/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.0/2

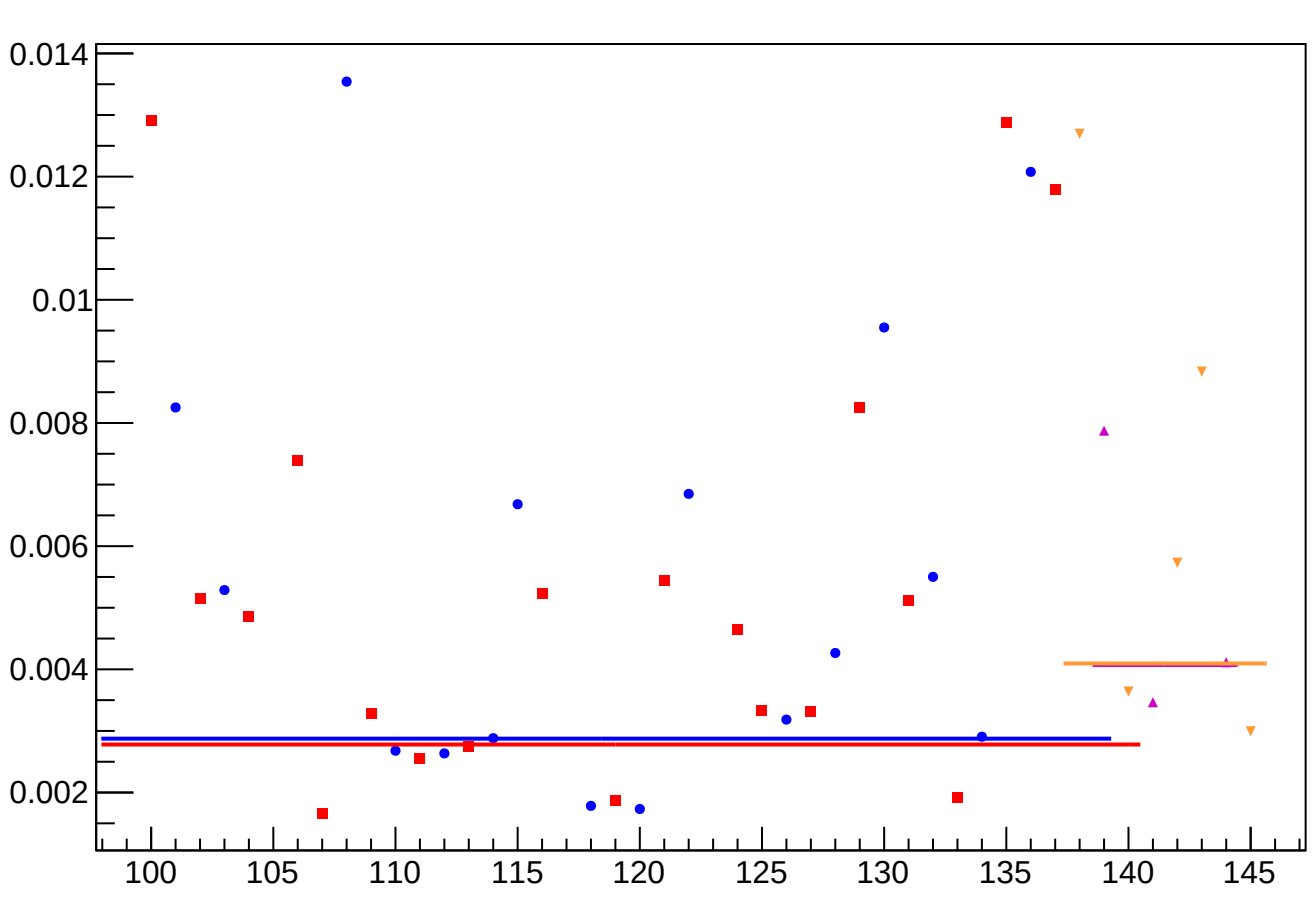
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.6/42




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4152056.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1444443.2/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3311178.7/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:377473.0/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 1822003.9/7

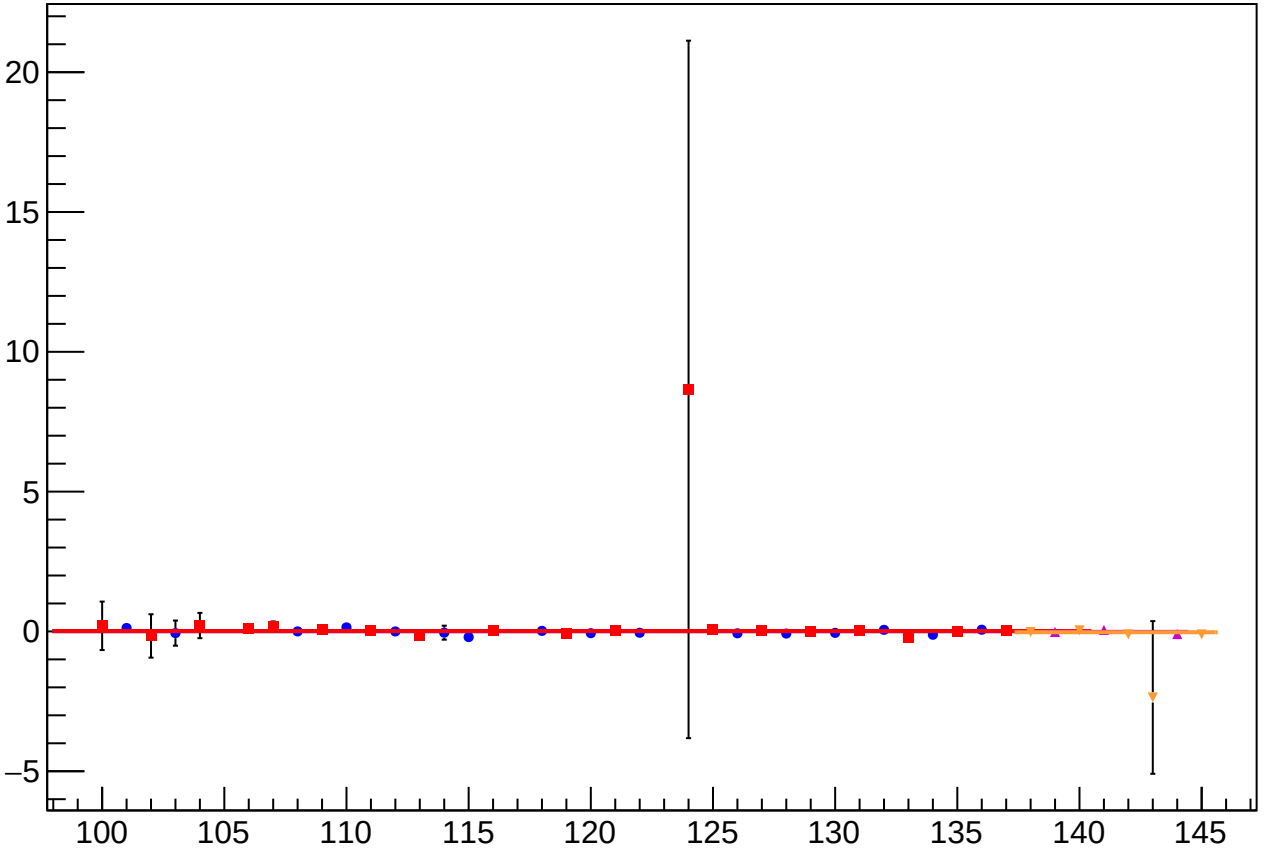
Right: 0.003+/-0.000 $\chi^2$/NDF: 7469105.0/34

In: 0.003+/-0.000 $\chi^2$/NDF:4819072.5/18

Out: 0.003+/-0.000 $\chi^2$/NDF:5221523.1/23

All: 0.003+/-0.000 $\chi^2$/NDF: 10043209.1/42

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: -0.029+/-0.023 $\chi^2$/NDF:4.9/4

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.015+/-0.023 $\chi^2$/NDF:3.3/2

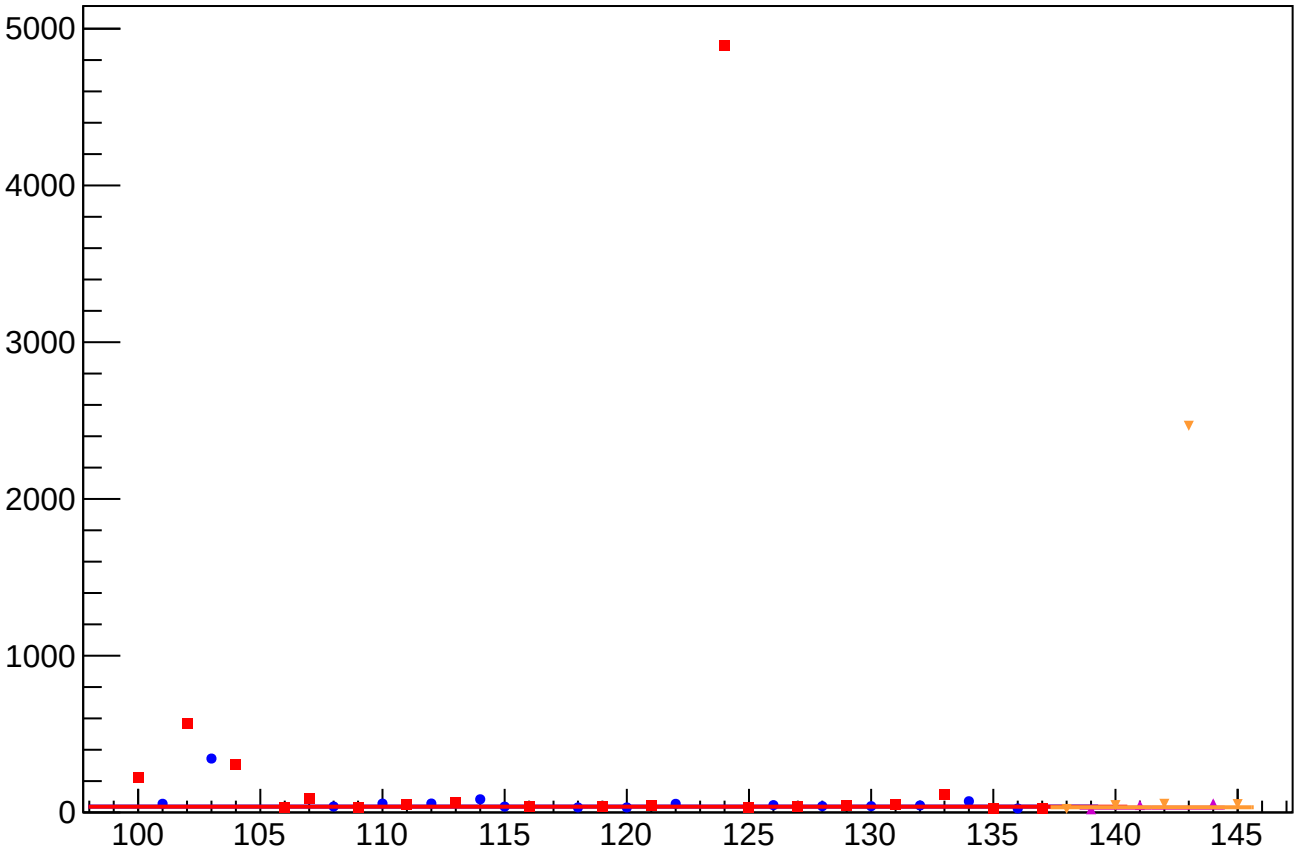
Left: -0.022+/-0.016 $\chi^2$/NDF: 8.3/7

Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: 0.000+/-0.013 $\chi^2$/NDF:23.2/18

Out: -0.002+/-0.013 $\chi^2$/NDF:19.7/23

All: -0.001+/-0.009 $\chi^2$/NDF: 42.9/42




Right In: 37.495+/-0.011 $\chi^2$/NDF: 1983206.3/15

Left Out: 33.087+/-0.016 $\chi^2$/NDF:2371628.0/4

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 30.232+/-0.016 $\chi^2$/NDF:858389.9/2

Left: 31.664+/-0.011 $\chi^2$/NDF: 3246056.9/7

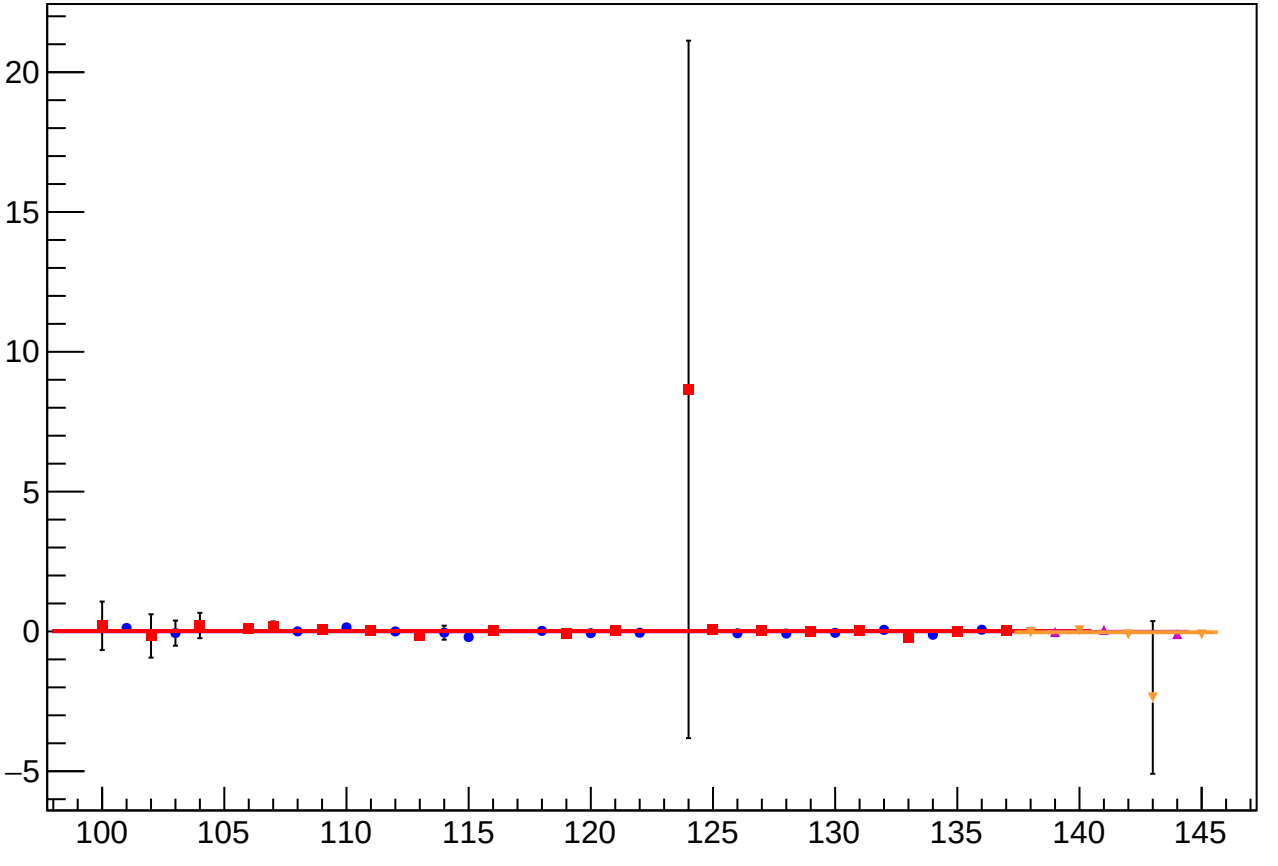
Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

In: 35.052+/-0.009 $\chi^2$/NDF:2978862.0/18

Out: 35.470+/-0.009 $\chi^2$/NDF:5596667.6/23

All: 35.256+/-0.007 $\chi^2$/NDF: 8576525.5/42

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: -0.029+/-0.023 $\chi^2$/NDF:4.9/4

Right Out: 0.013+/-0.017 $\chi^2$/NDF: 12.6/18

Left In: -0.015+/-0.023 $\chi^2$/NDF:3.3/2

Left: -0.022+/-0.016 $\chi^2$/NDF: 8.3/7

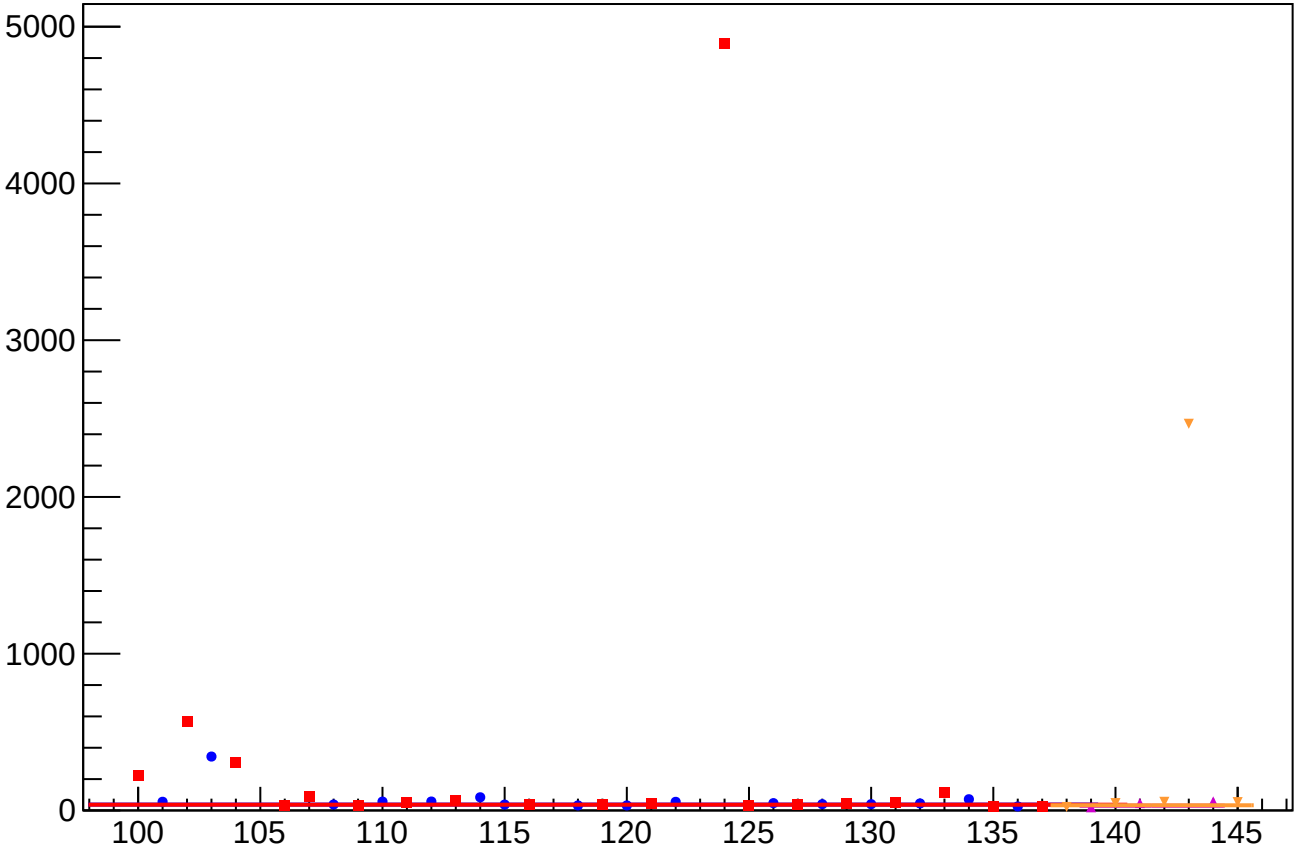
Right: 0.010+/-0.012 $\chi^2$/NDF: 31.9/34

In: 0.000+/-0.013 $\chi^2$/NDF:23.2/18

Out: -0.002+/-0.013 $\chi^2$/NDF:19.7/23

All: -0.001+/-0.009 $\chi^2$/NDF: 42.9/42

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: 33.087+/-0.016 $\chi^2$/NDF:2371628.0/4

Right Out: 36.769+/-0.012 $\chi^2$/NDF: 3190400.7/18

Left In: 30.232+/-0.016 $\chi^2$/NDF:858389.9/2

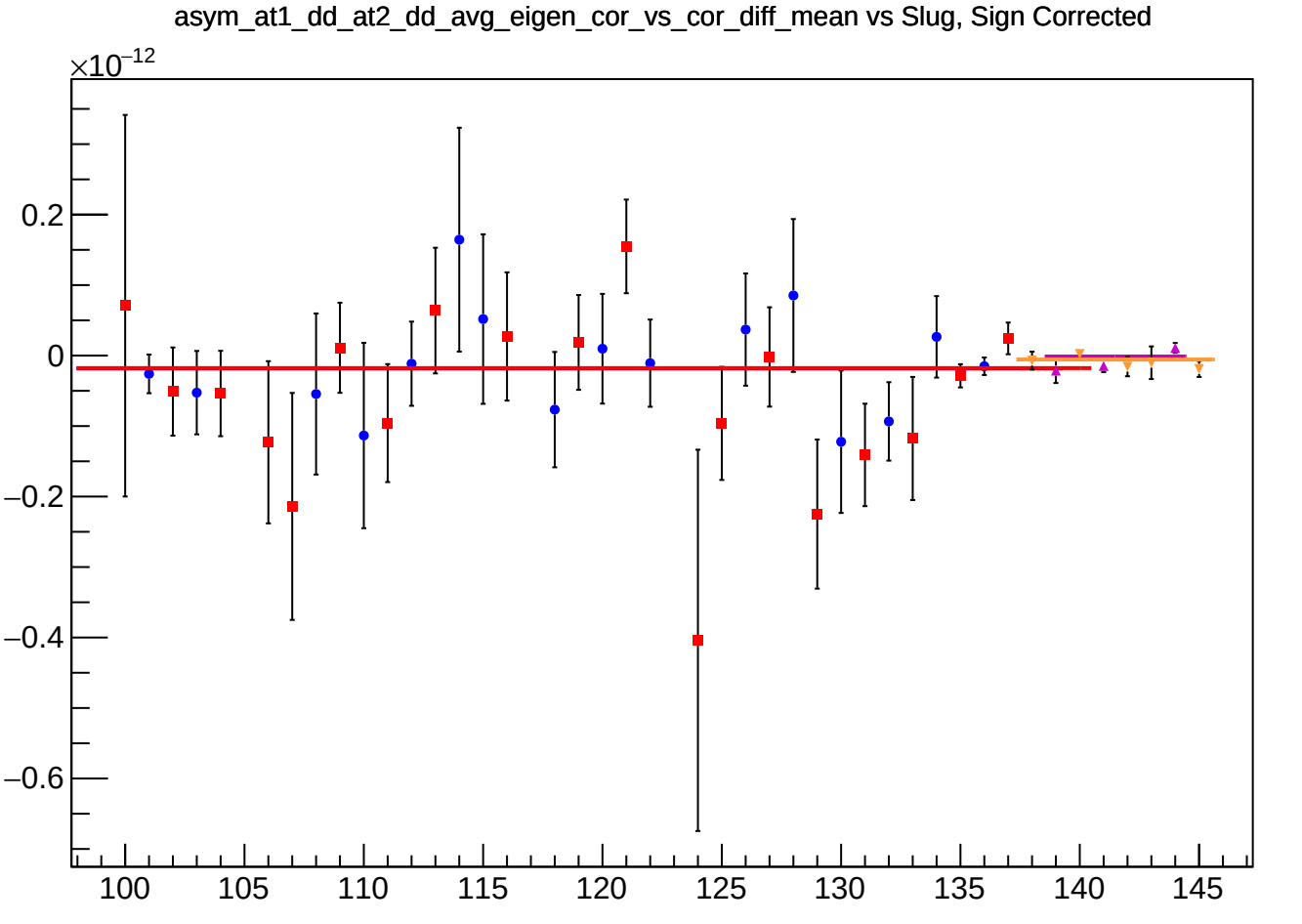
Left: 31.664+/-0.011 $\chi^2$/NDF: 3246056.9/7

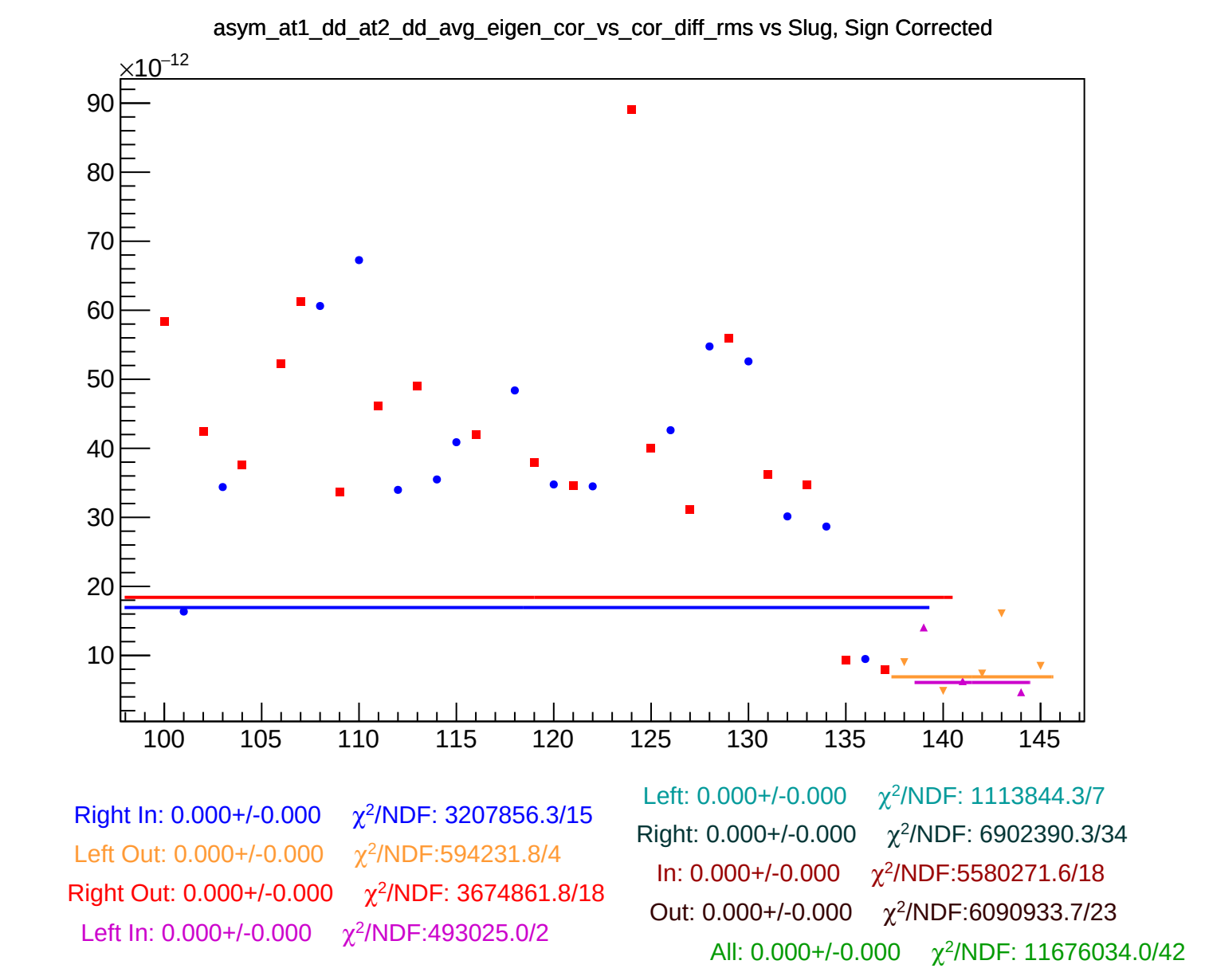
Right: 37.144+/-0.008 $\chi^2$/NDF: 5175578.4/34

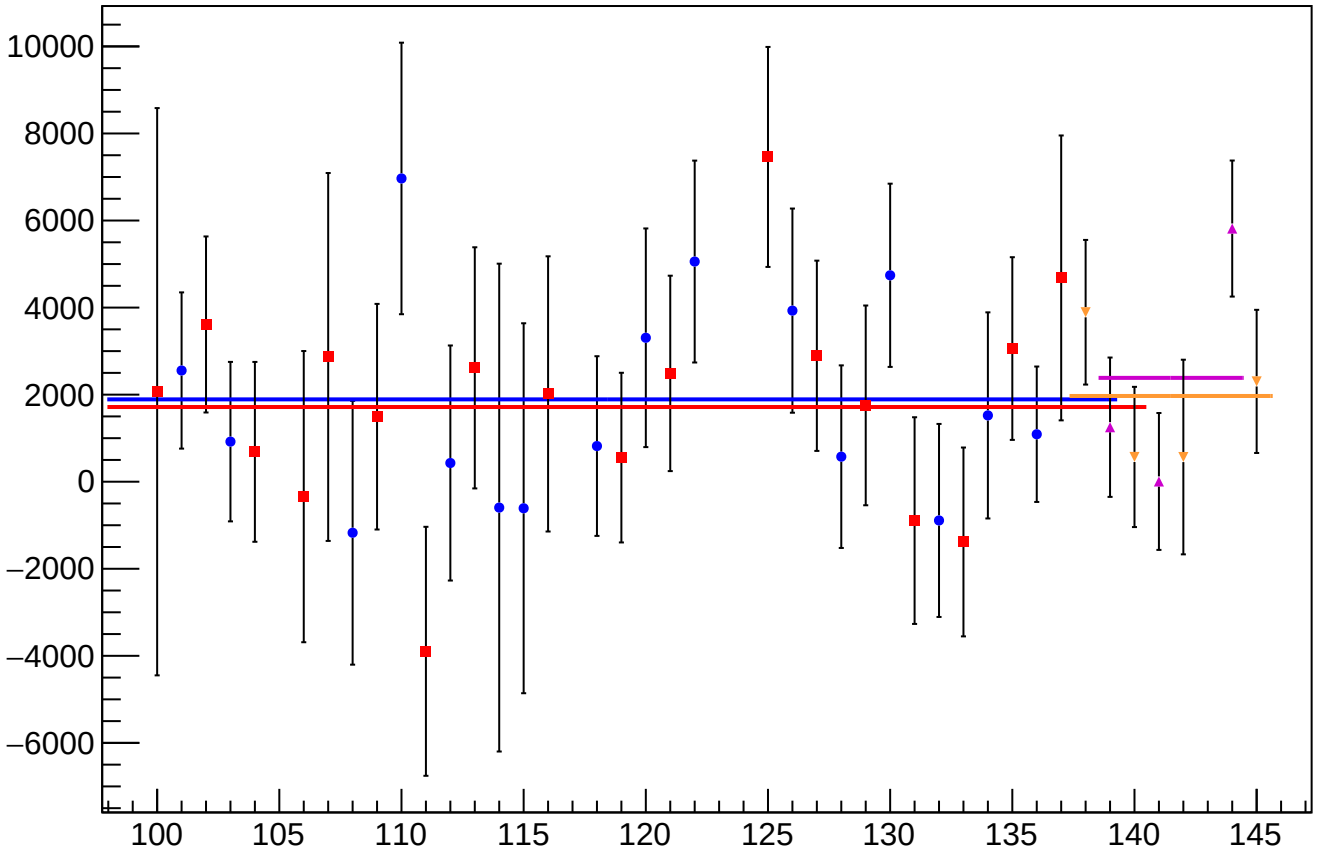
In: 35.052+/-0.009 $\chi^2$/NDF:2978862.0/18

Out: 35.470+/-0.009 $\chi^2$/NDF:5596667.6/23

All: 35.256+/-0.007 $\chi^2$/NDF: 8576525.5/42


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.2
0
−0.2
−0.4
−0.6
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 8.3/15
Left Out: -0.000+/-0.000 χ²/NDF:3.3/4
Right Out: -0.000+/-0.000 χ²/NDF: 27.3/18
Left In: -0.000+/-0.000 χ²/NDF:6.7/2
Left: -0.000+/-0.000 χ²/NDF: 10.4/7
Right: -0.000+/-0.000 χ²/NDF: 35.6/34
In: -0.000+/-0.000 χ²/NDF:17.3/18
Out: -0.000+/-0.000 χ²/NDF:31.6/23
All: -0.000+/-0.000 χ²/NDF: 49.1/42


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
90
80
70
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 3207856.3/15
Left Out: 0.000+/-0.000 χ²/NDF:594231.8/4
Right Out: 0.000+/-0.000 χ²/NDF: 3674861.8/18
Left In: 0.000+/-0.000 χ²/NDF:493025.0/2
Left: 0.000+/-0.000 χ²/NDF: 1113844.3/7
Right: 0.000+/-0.000 χ²/NDF: 6902390.3/34
In: 0.000+/-0.000 χ²/NDF:5580271.6/18
Out: 0.000+/-0.000 χ²/NDF:6090933.7/23
All: 0.000+/-0.000 χ²/NDF: 11676034.0/42




Right In: 1891.457+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1969.462+/-871.192 $\chi^2$/NDF:2.5/3

Right Out: 1715.909+/-589.518 $\chi^2$/NDF: 16.0/17

Left In: 2385.397+/-911.235 $\chi^2$/NDF:7.6/2

Left: 2168.090+/-629.706 $\chi^2$/NDF: 10.3/6

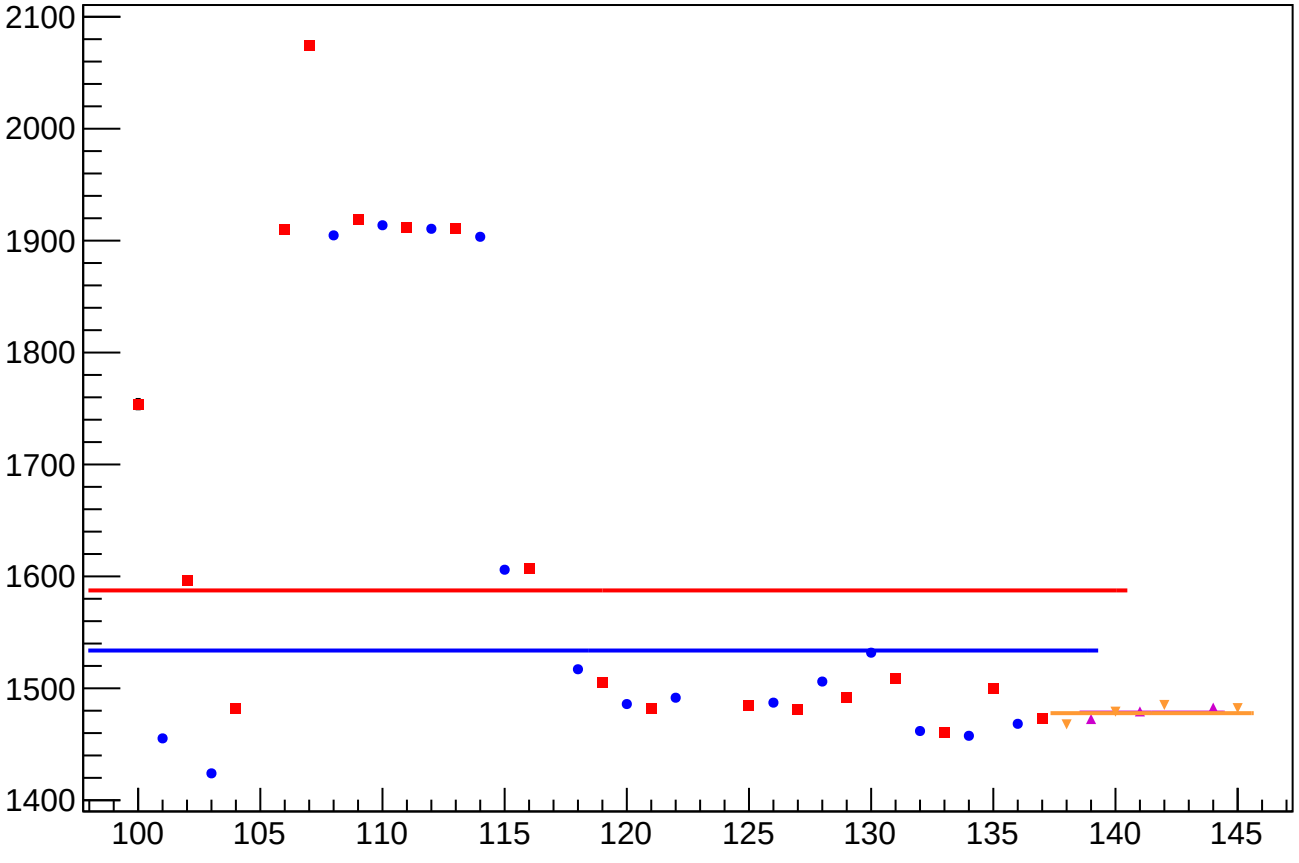
Right: 1806.293+/-410.609 $\chi^2$/NDF: 28.2/33

In: 2031.158+/-484.610 $\chi^2$/NDF:20.0/18

Out: 1795.545+/-488.241 $\chi^2$/NDF:18.6/21

All: 1914.231+/-343.948 $\chi^2$/NDF: 38.7/40

# reg_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.6/15

Left Out: 1477.802+/-0.616 $\chi^2$/NDF:110.2/3

Right Out: 1587.461+/-0.417 $\chi^2$/NDF: 171988.2/17

Left In: 1478.328+/-0.644 $\chi^2$/NDF:42.9/2

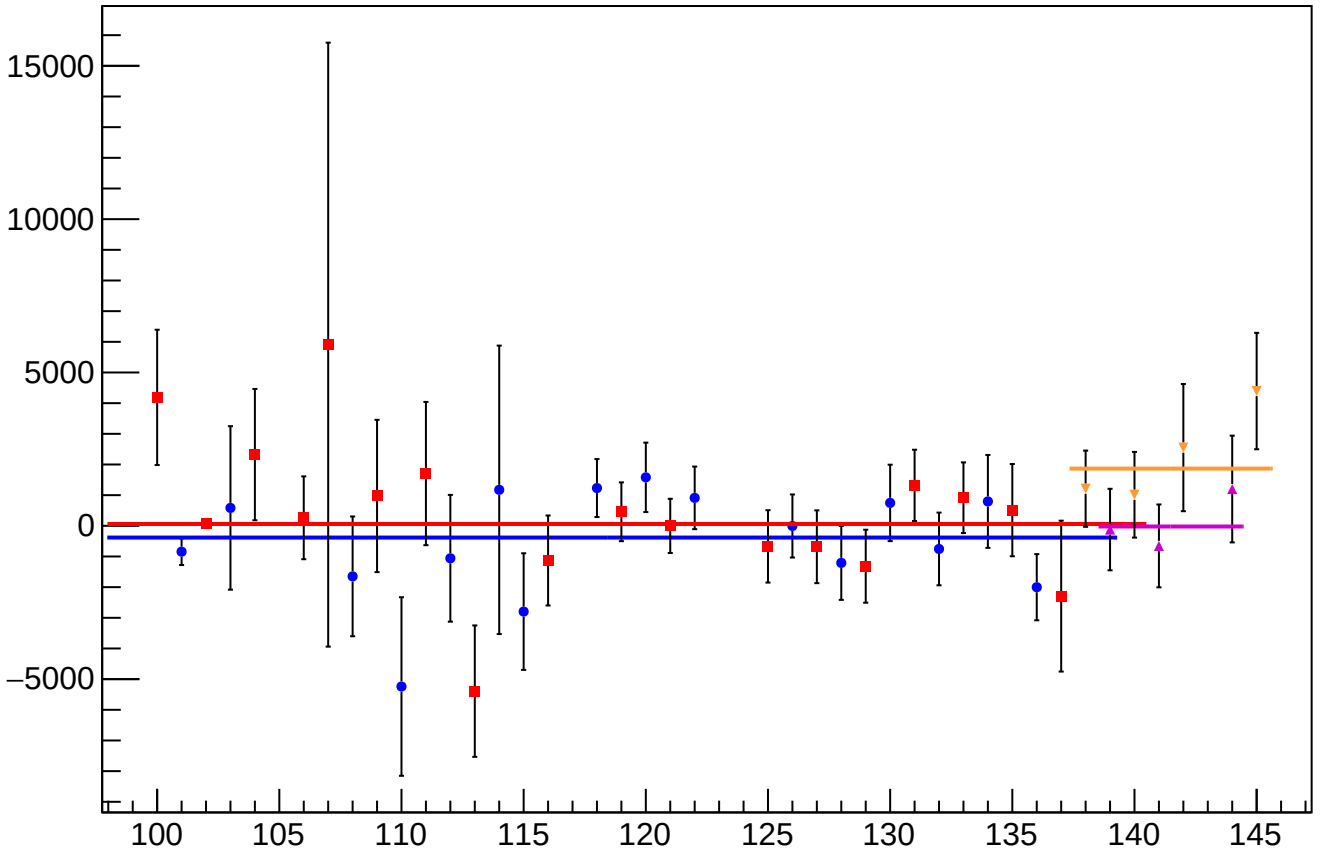
Left: 1478.053+/-0.445 $\chi^2$/NDF: 153.4/6

Right: 1559.818+/-0.290 $\chi^2$/NDF: 309801.2/33

In: 1518.090+/-0.343 $\chi^2$/NDF:134624.3/18

Out: 1553.020+/-0.345 $\chi^2$/NDF:193833.7/21

All: 1535.424+/-0.243 $\chi^2$/NDF: 333614.5/40




Right In: -382.787+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: 1865.565+/-773.940 $\chi^2$/NDF:2.5/3

Right Out: 59.970+/-127.700 $\chi^2$/NDF: 17.8/17

Left In: -22.223+/-832.245 $\chi^2$/NDF:0.7/2

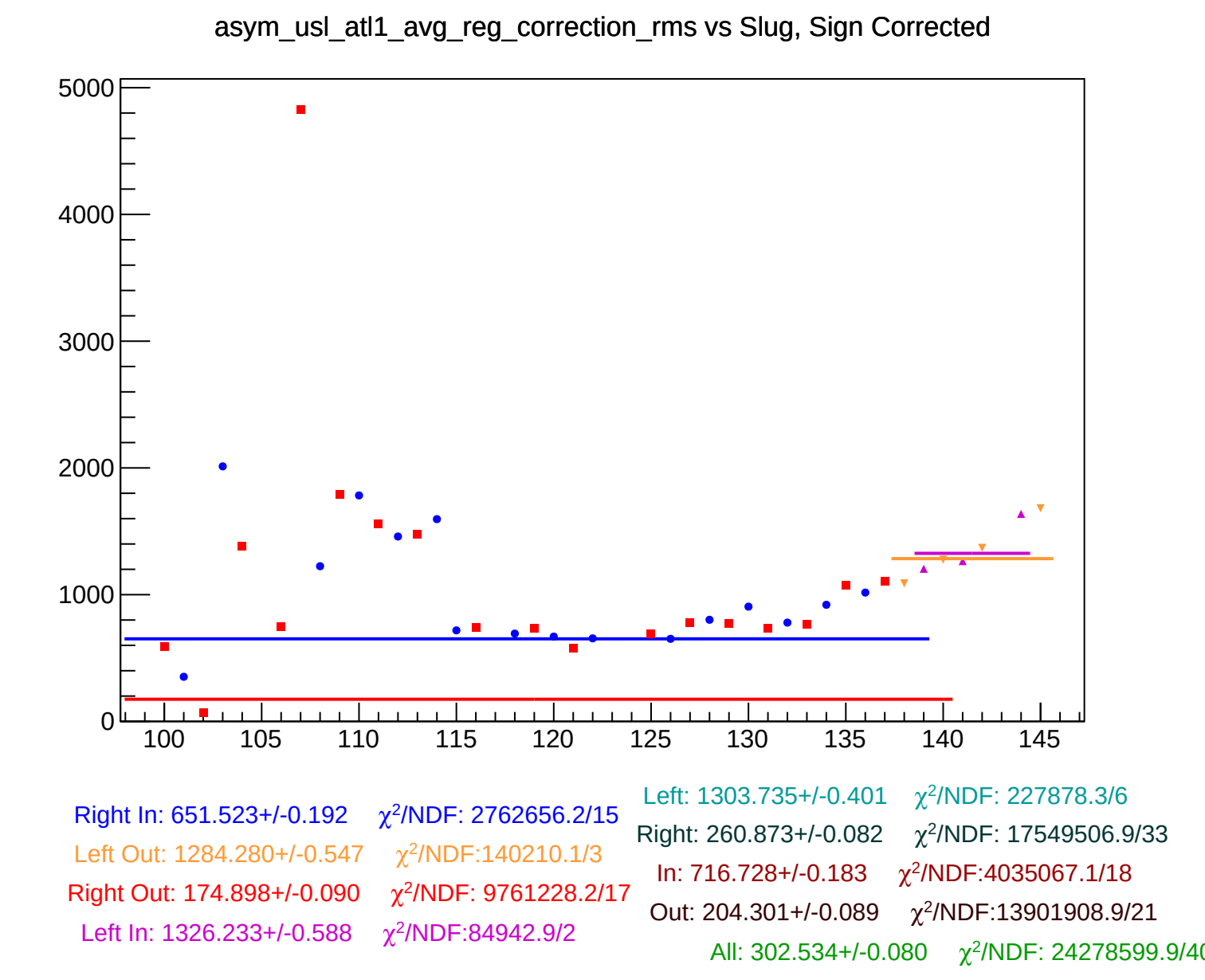
Left: 990.107+/-566.751 $\chi^2$/NDF: 6.0/6

Right: -19.895+/-115.611 $\chi^2$/NDF: 38.1/33

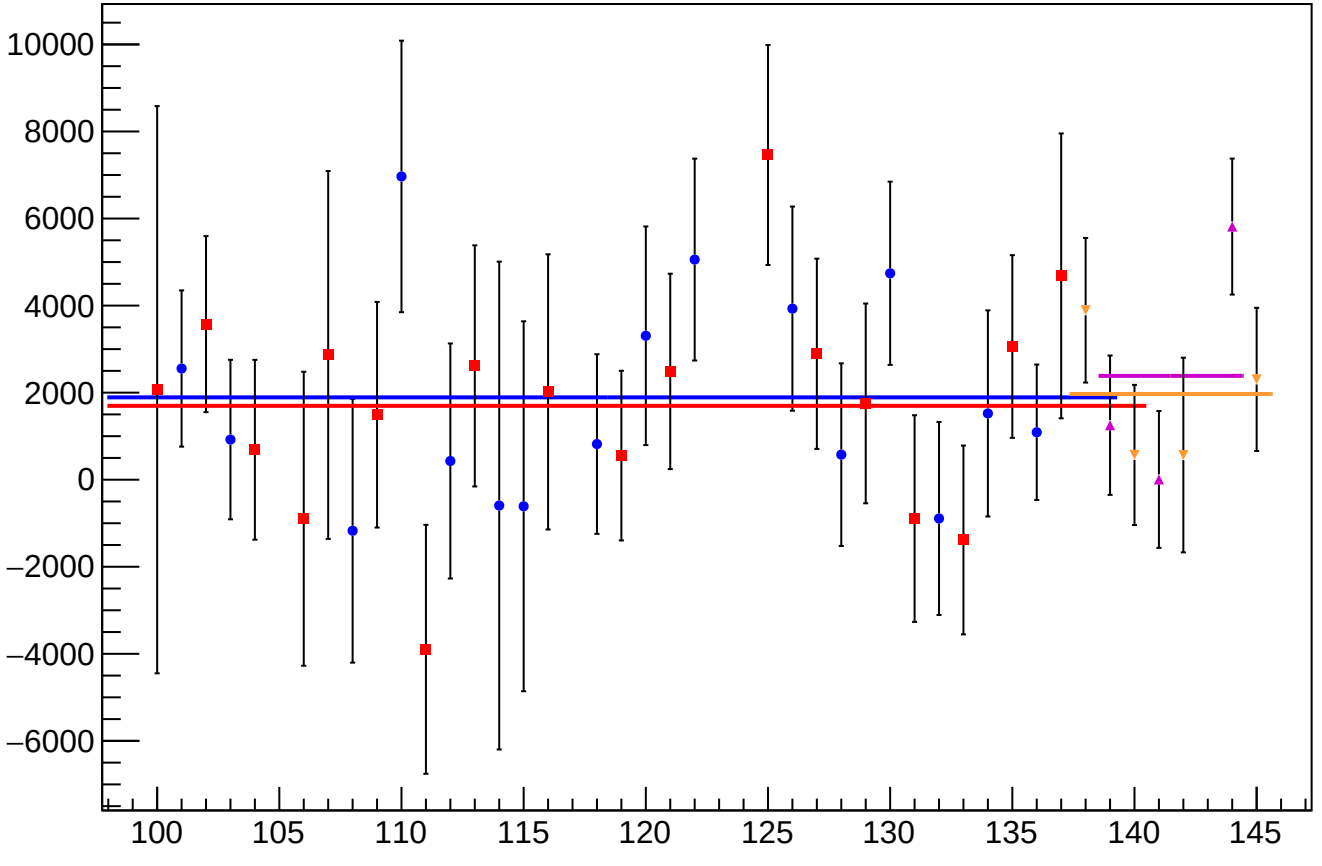
In: -347.942+/-258.722 $\chi^2$/NDF:19.1/18

Out: 107.825+/-125.997 $\chi^2$/NDF:25.6/21

All: 20.454+/-113.278 $\chi^2$/NDF: 47.2/40


asym_usl_atl1_avg_reg_correction_rms vs Slug, Sign Corrected
5000
4000
3000
2000
1000
0
100
105
110
115
120
125
130
135
140
145
Right In: 651.523+/-0.192 χ2/NDF: 2762656.2/15
Left Out: 1284.280+/-0.547 χ2/NDF:140210.1/3
Right Out: 174.898+/-0.090 χ2/NDF: 9761228.2/17
Left In: 1326.233+/-0.588 χ2/NDF:84942.9/2
Left: 1303.735+/-0.401 χ2/NDF: 227878.3/6
Right: 260.873+/-0.082 χ2/NDF: 17549506.9/33
In: 716.728+/-0.183 χ2/NDF:4035067.1/18
Out: 204.301+/-0.089 χ2/NDF:13901908.9/21
All: 302.534+/-0.080 χ2/NDF: 24278599.9/40

# cor_asym_usl_atl1_avg_mean vs Slug, Sign Corrected




Right In: 1891.562+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1969.558+/-871.192 $\chi^2$/NDF:2.5/3

Right Out: 1696.987+/-589.699 $\chi^2$/NDF: 16.2/17

Left In: 2385.509+/-911.235 $\chi^2$/NDF:7.6/2

Left: 2168.194+/-629.706 $\chi^2$/NDF: 10.2/6

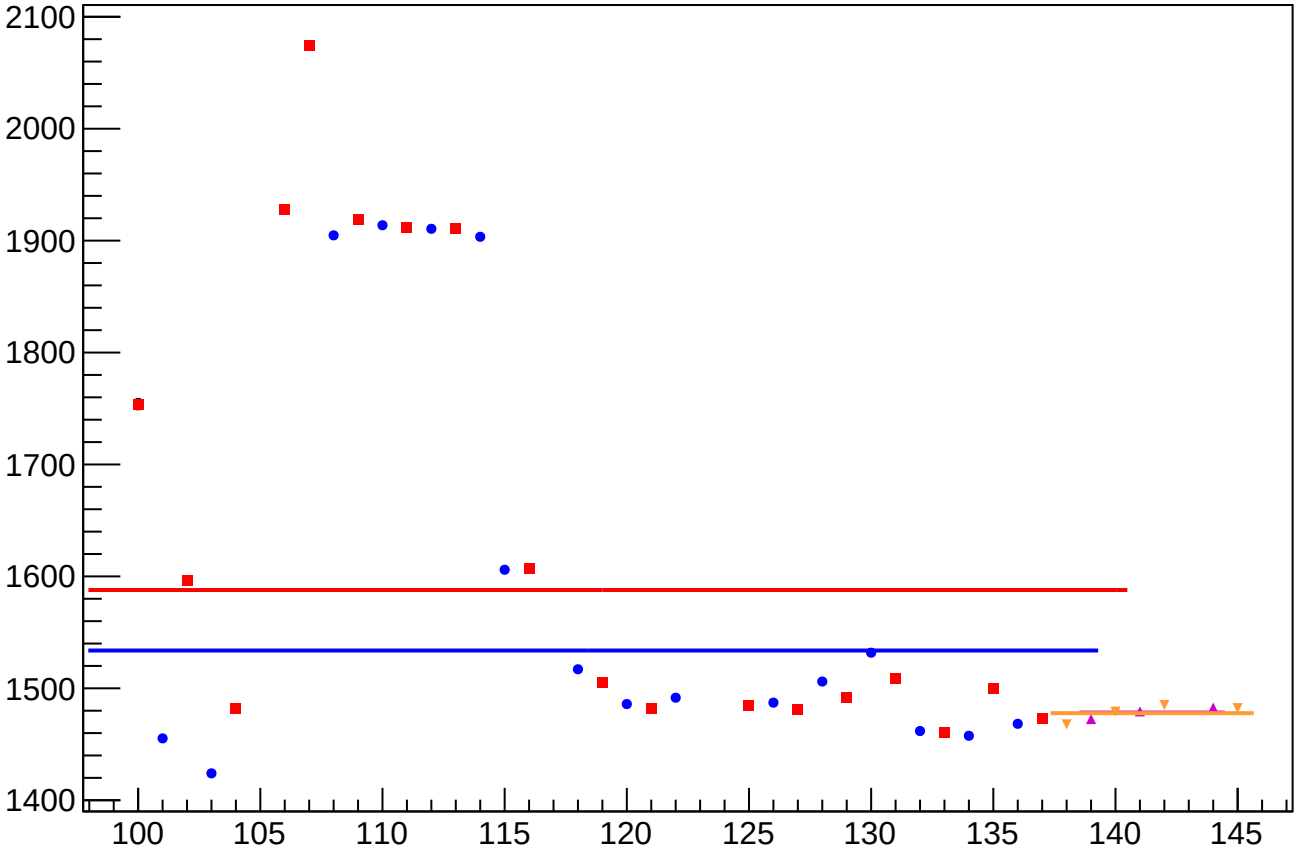
Right: 1797.197+/-410.670 $\chi^2$/NDF: 28.4/33

In: 2031.265+/-484.610 $\chi^2$/NDF:20.0/18

Out: 1782.633+/-488.344 $\chi^2$/NDF:18.8/21

All: 1907.903+/-343.984 $\chi^2$/NDF: 38.9/40

# cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.5/15

Left Out: 1477.802+/-0.616 $\chi^2$/NDF:110.2/3

Right Out: 1587.846+/-0.417 $\chi^2$/NDF: 173766.9/17

Left In: 1478.328+/-0.644 $\chi^2$/NDF:42.9/2

Left: 1478.053+/-0.445 $\chi^2$/NDF: 153.4/6

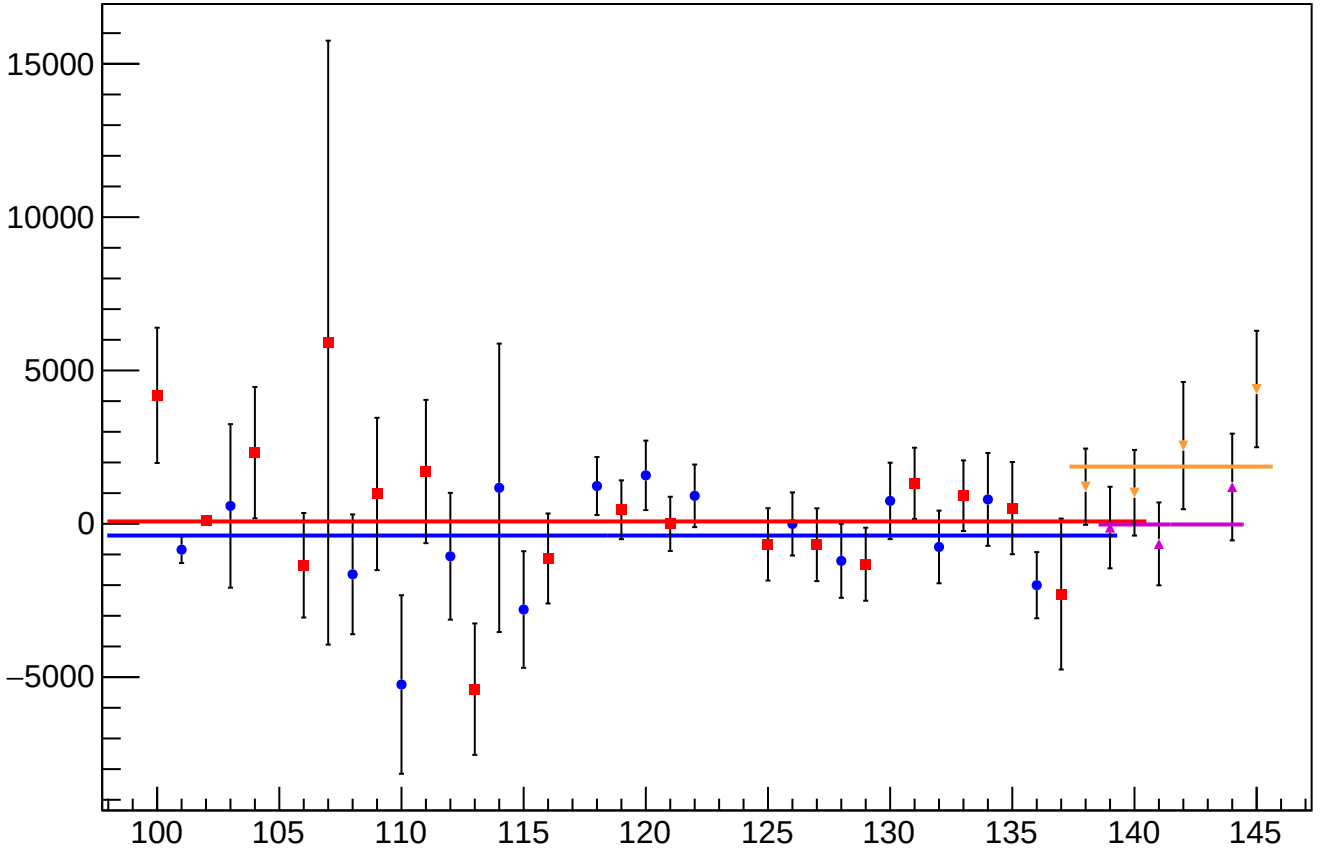
Right: 1559.996+/-0.290 $\chi^2$/NDF: 311699.9/33

In: 1518.090+/-0.343 $\chi^2$/NDF:134624.3/18

Out: 1553.269+/-0.345 $\chi^2$/NDF:195761.0/21

All: 1535.545+/-0.243 $\chi^2$/NDF: 335614.5/40

asym_usl_atl1_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -382.761+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: 1865.664+/-773.942 $\chi^2$/NDF:2.5/3

Right Out: 76.754+/-138.137 $\chi^2$/NDF: 18.5/17

Left In: -22.078+/-832.246 $\chi^2$/NDF:0.7/2

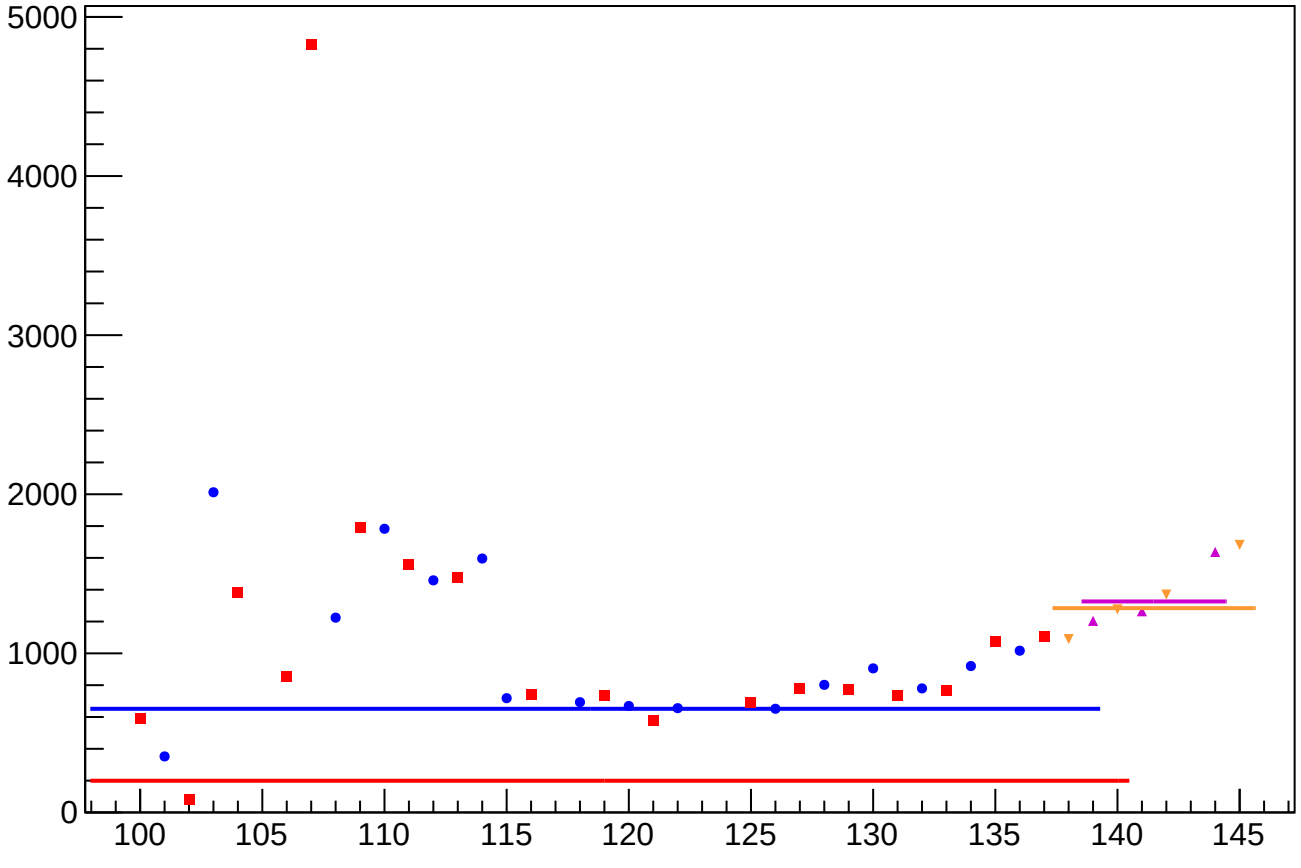
Left: 990.226+/-566.752 $\chi^2$/NDF: 6.0/6

Right: -17.348+/-123.184 $\chi^2$/NDF: 38.9/33

In: -347.904+/-258.721 $\chi^2$/NDF:19.1/18

Out: 131.984+/-135.988 $\chi^2$/NDF:26.2/21

All: 28.103+/-120.373 $\chi^2$/NDF: 48.0/40




Right In: 651.521+/-0.192 $\chi^2$/NDF: 2762681.5/15

Left Out: 1284.285+/-0.547 $\chi^2$/NDF:140205.9/3

Right Out: 199.344+/-0.098 $\chi^2$/NDF: 9284792.6/17

Left In: 1326.234+/-0.588 $\chi^2$/NDF:84940.9/2

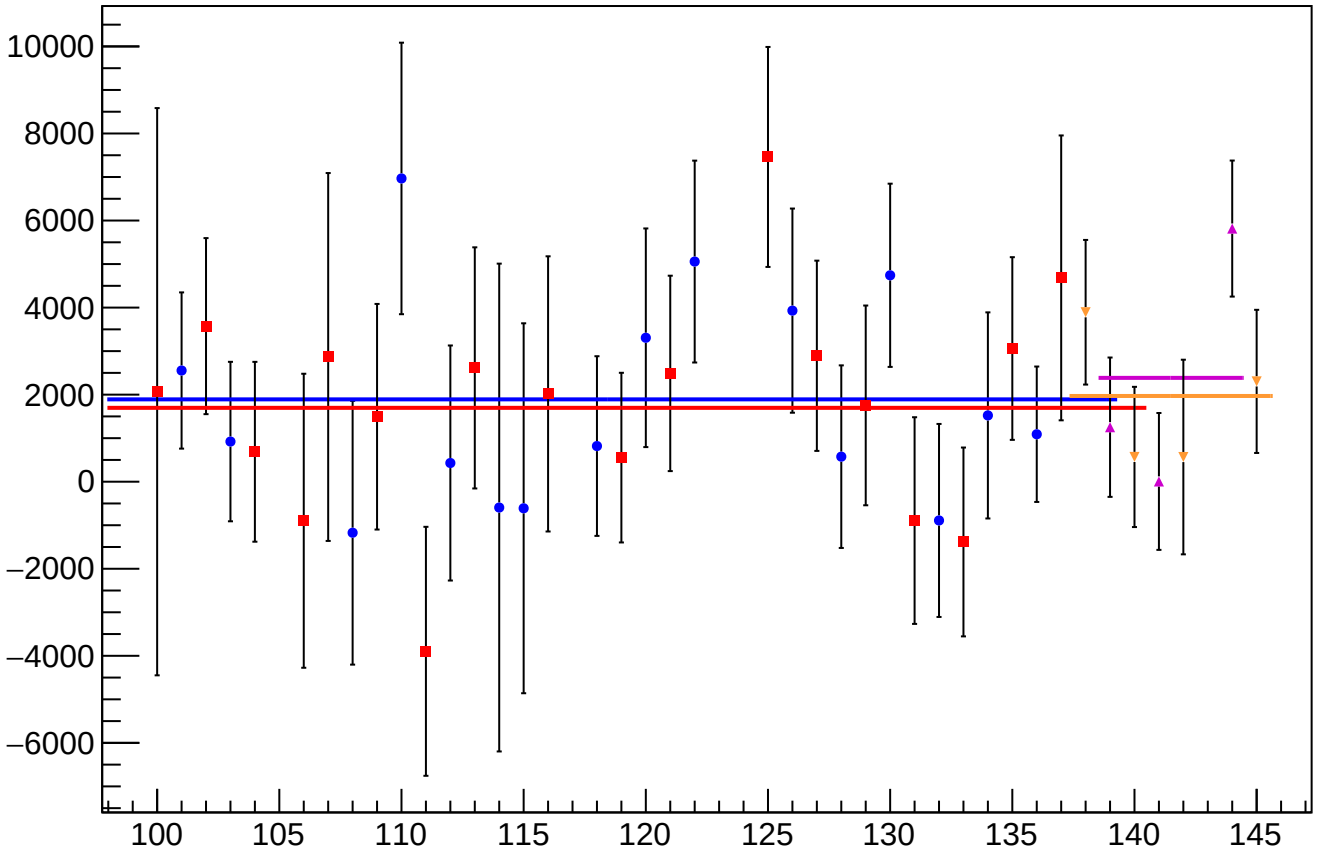
Left: 1303.739+/-0.401 $\chi^2$/NDF: 227871.7/6

Right: 291.943+/-0.087 $\chi^2$/NDF: 16436092.9/33

In: 716.726+/-0.183 $\chi^2$/NDF:4035098.7/18

Out: 232.839+/-0.096 $\chi^2$/NDF:13233950.0/21

All: 337.585+/-0.085 $\chi^2$/NDF: 22750678.5/40




Right In: 1891.562+/-572.244 $\chi^2$/NDF: 12.2/15

Left Out: 1969.558+/-871.192 $\chi^2$/NDF:2.5/3

Right Out: 1696.987+/-589.699 $\chi^2$/NDF: 16.2/17

Left In: 2385.509+/-911.235 $\chi^2$/NDF:7.6/2

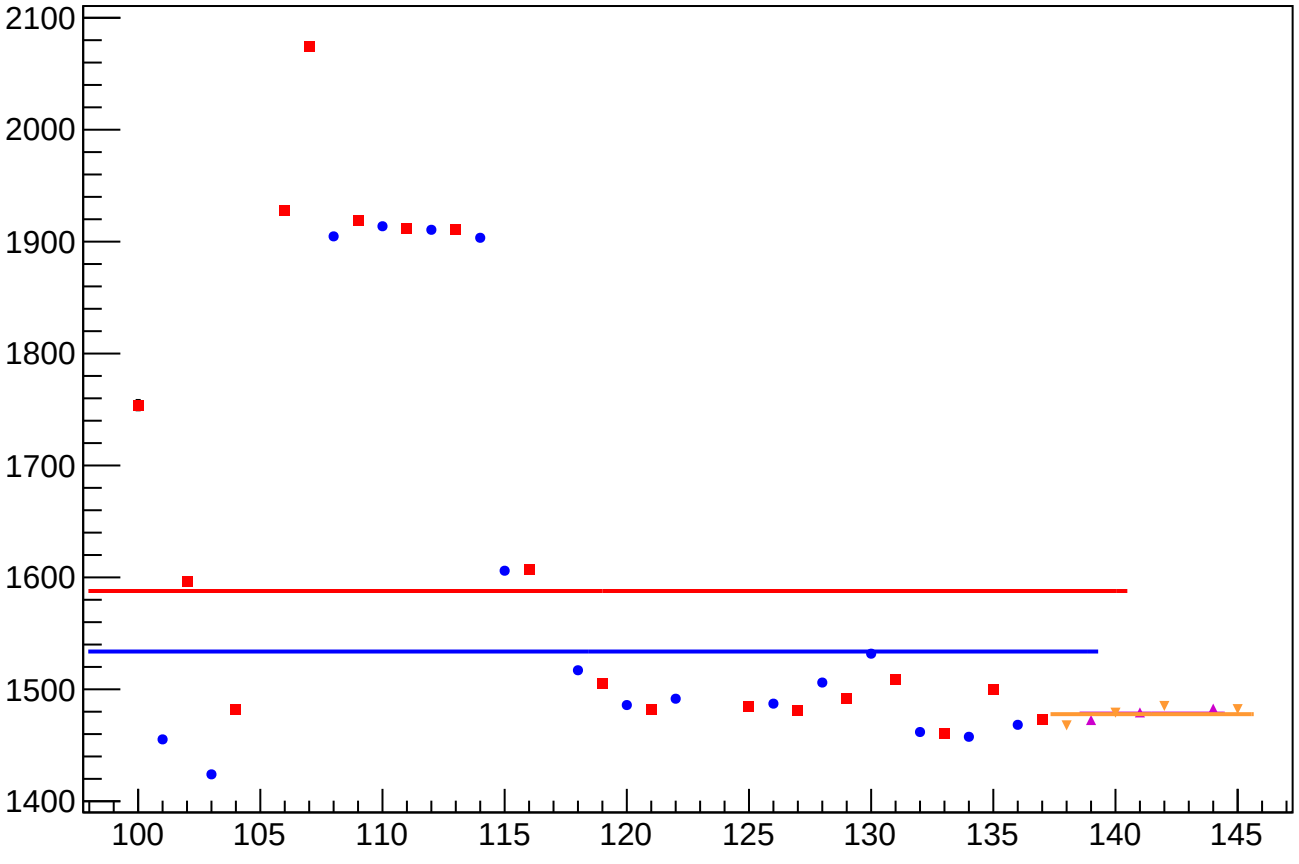
Left: 2168.194+/-629.706 $\chi^2$/NDF: 10.2/6

Right: 1797.197+/-410.670 $\chi^2$/NDF: 28.4/33

In: 2031.265+/-484.610 $\chi^2$/NDF:20.0/18

Out: 1782.633+/-488.344 $\chi^2$/NDF:18.8/21

All: 1907.903+/-343.984 $\chi^2$/NDF: 38.9/40




Right In: 1533.771+/-0.405 $\chi^2$/NDF: 129271.5/15

Left Out: 1477.802+/-0.616 $\chi^2$/NDF:110.2/3

Right Out: 1587.846+/-0.417 $\chi^2$/NDF: 173766.9/17

Left In: 1478.328+/-0.644 $\chi^2$/NDF:42.9/2

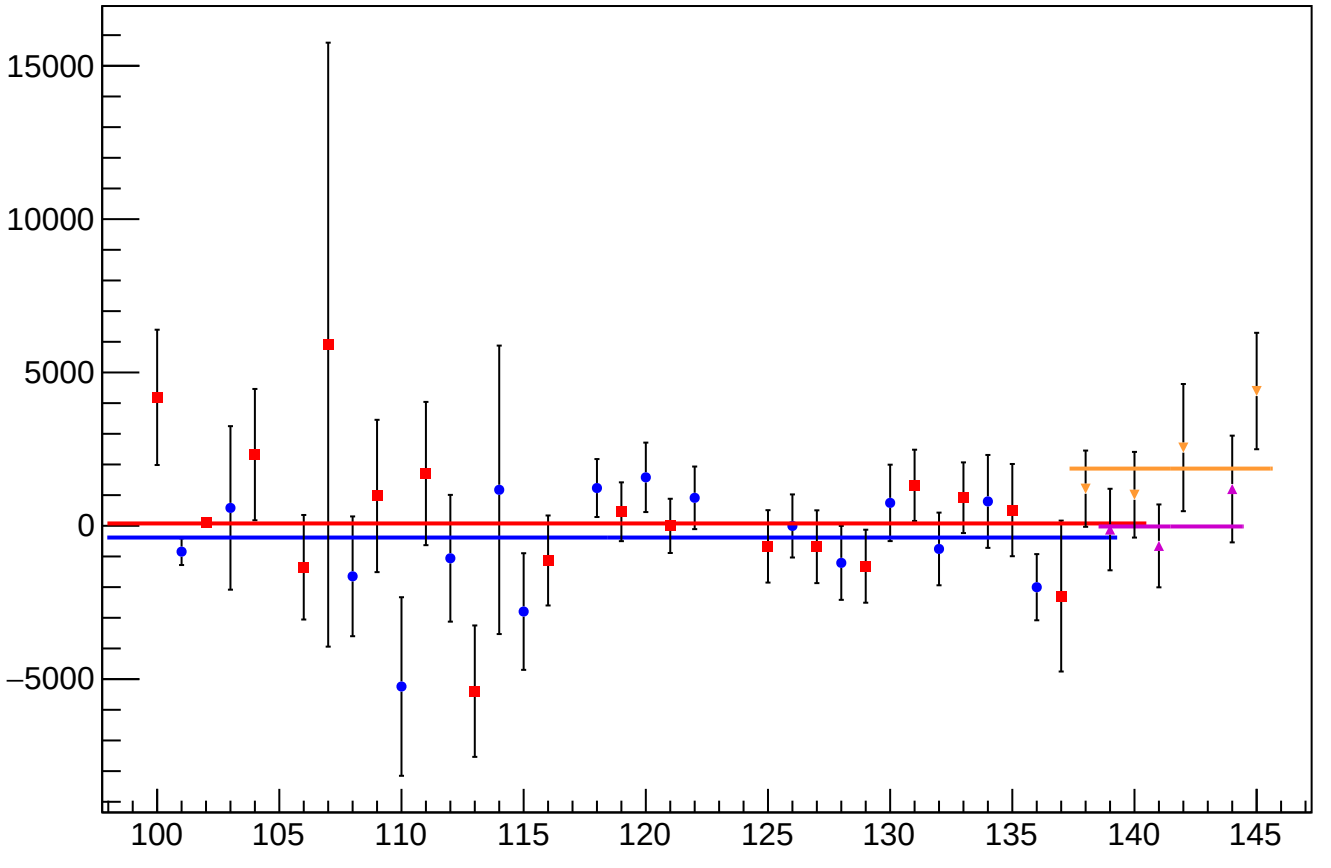
Left: 1478.053+/-0.445 $\chi^2$/NDF: 153.4/6

Right: 1559.996+/-0.290 $\chi^2$/NDF: 311699.9/33

In: 1518.090+/-0.343 $\chi^2$/NDF:134624.3/18

Out: 1553.269+/-0.345 $\chi^2$/NDF:195761.0/21

All: 1535.545+/-0.243 $\chi^2$/NDF: 335614.5/40




Right In: -382.761+/-272.209 $\chi^2$/NDF: 18.2/15

Left Out: 1865.664+/-773.942 $\chi^2$/NDF:2.5/3

Right Out: 76.754+/-138.137 $\chi^2$/NDF: 18.5/17

Left In: -22.078+/-832.246 $\chi^2$/NDF:0.7/2

Left: 990.226+/-566.752 $\chi^2$/NDF: 6.0/6

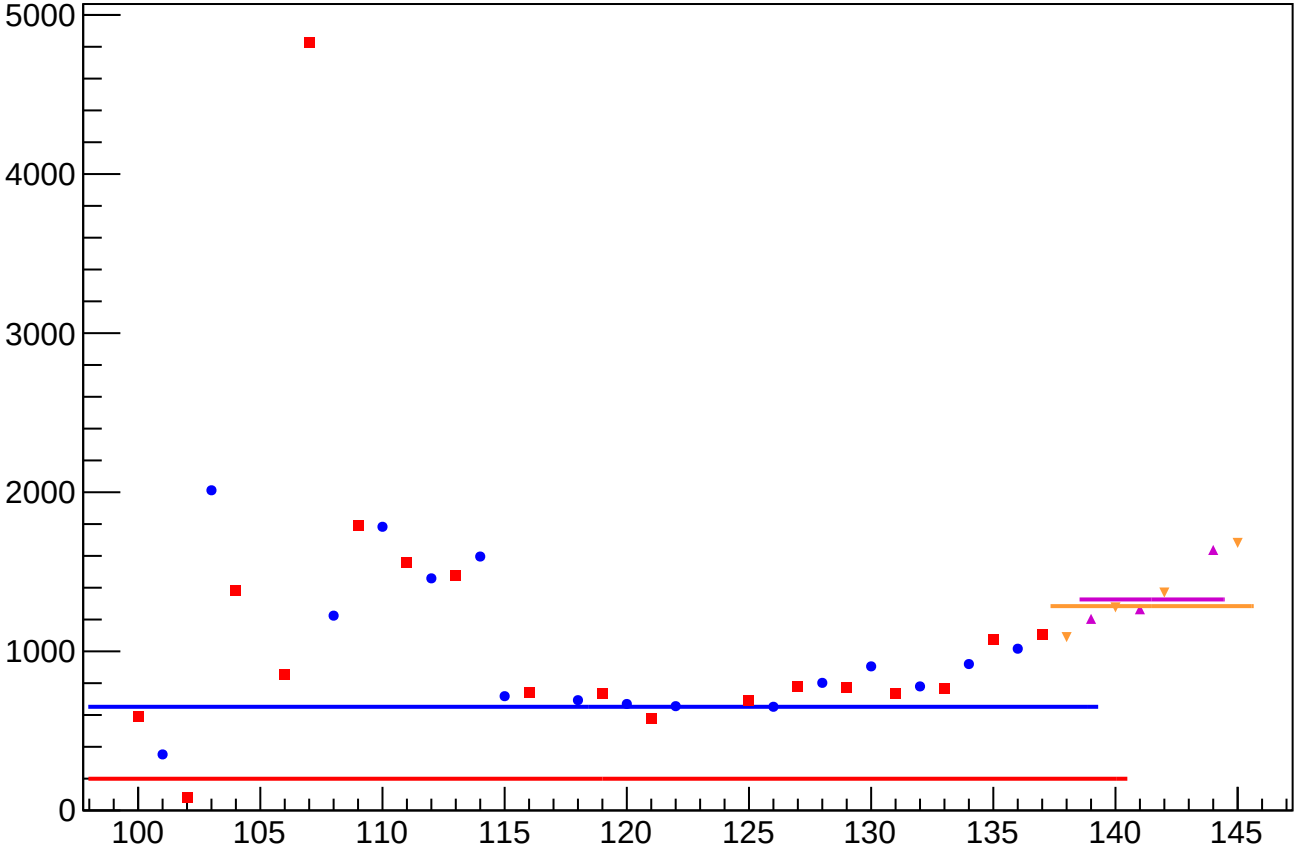
Right: -17.348+/-123.184 $\chi^2$/NDF: 38.9/33

In: -347.904+/-258.721 $\chi^2$/NDF:19.1/18

Out: 131.984+/-135.988 $\chi^2$/NDF:26.2/21

All: 28.103+/-120.373 $\chi^2$/NDF: 48.0/40

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: 1284.285+/-0.547 $\chi^2$/NDF:140205.9/3

Right Out: 199.344+/-0.098 $\chi^2$/NDF: 9284792.6/17

Left In: 1326.234+/-0.588 $\chi^2$/NDF:84940.9/2

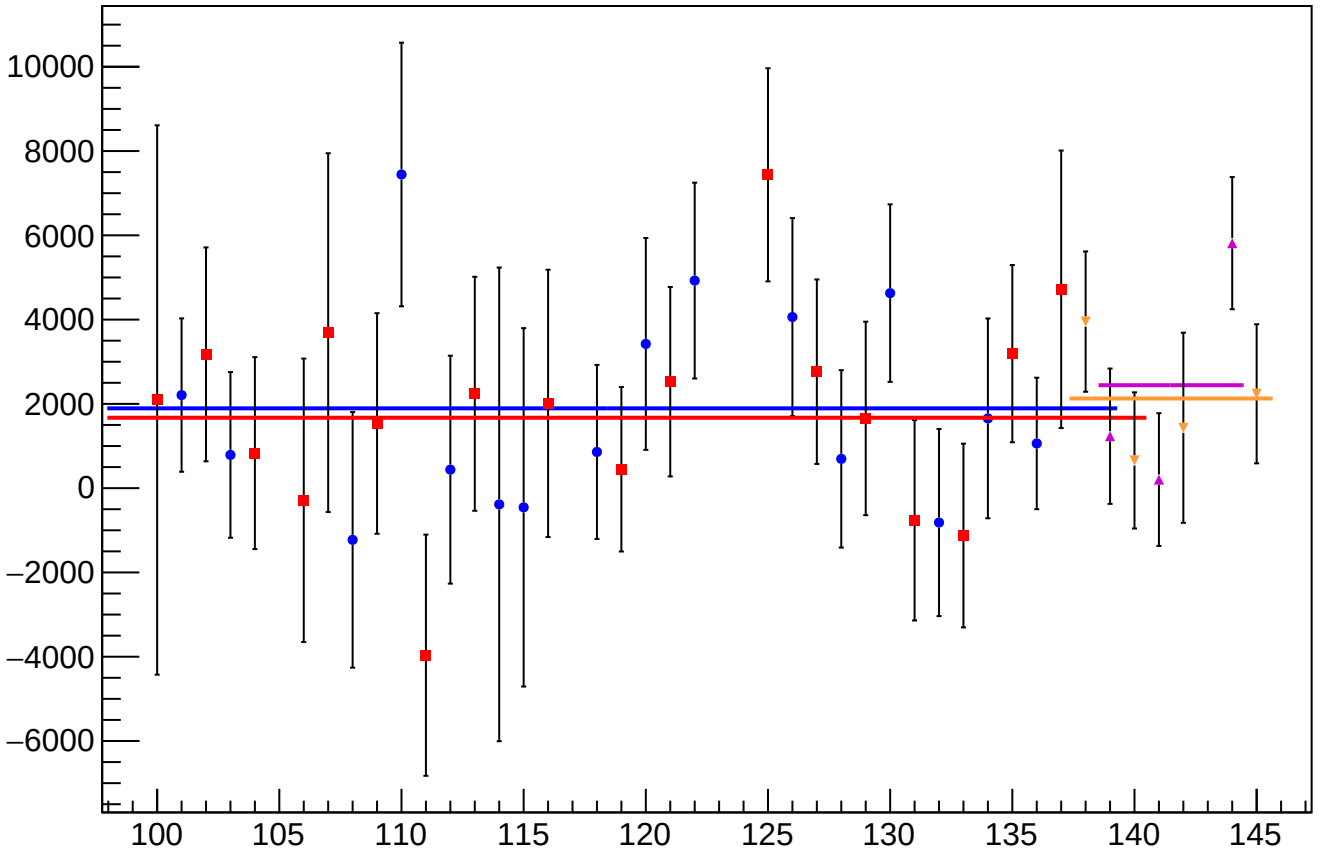
Left: 1303.739+/-0.401 $\chi^2$/NDF: 227871.7/6

Right: 291.943+/-0.087 $\chi^2$/NDF: 16436092.9/33

In: 716.726+/-0.183 $\chi^2$/NDF:4035098.7/18

Out: 232.839+/-0.096 $\chi^2$/NDF:13233950.0/21

All: 337.585+/-0.085 $\chi^2$/NDF: 22750678.5/40




Right In: 1894.171+/-577.631 $\chi^2$/NDF: 12.3/15

Left Out: 2127.592+/-874.552 $\chi^2$/NDF:2.1/3

Right Out: 1670.933+/-604.838 $\chi^2$/NDF: 15.0/17

Left In: 2442.955+/-913.780 $\chi^2$/NDF:7.2/2

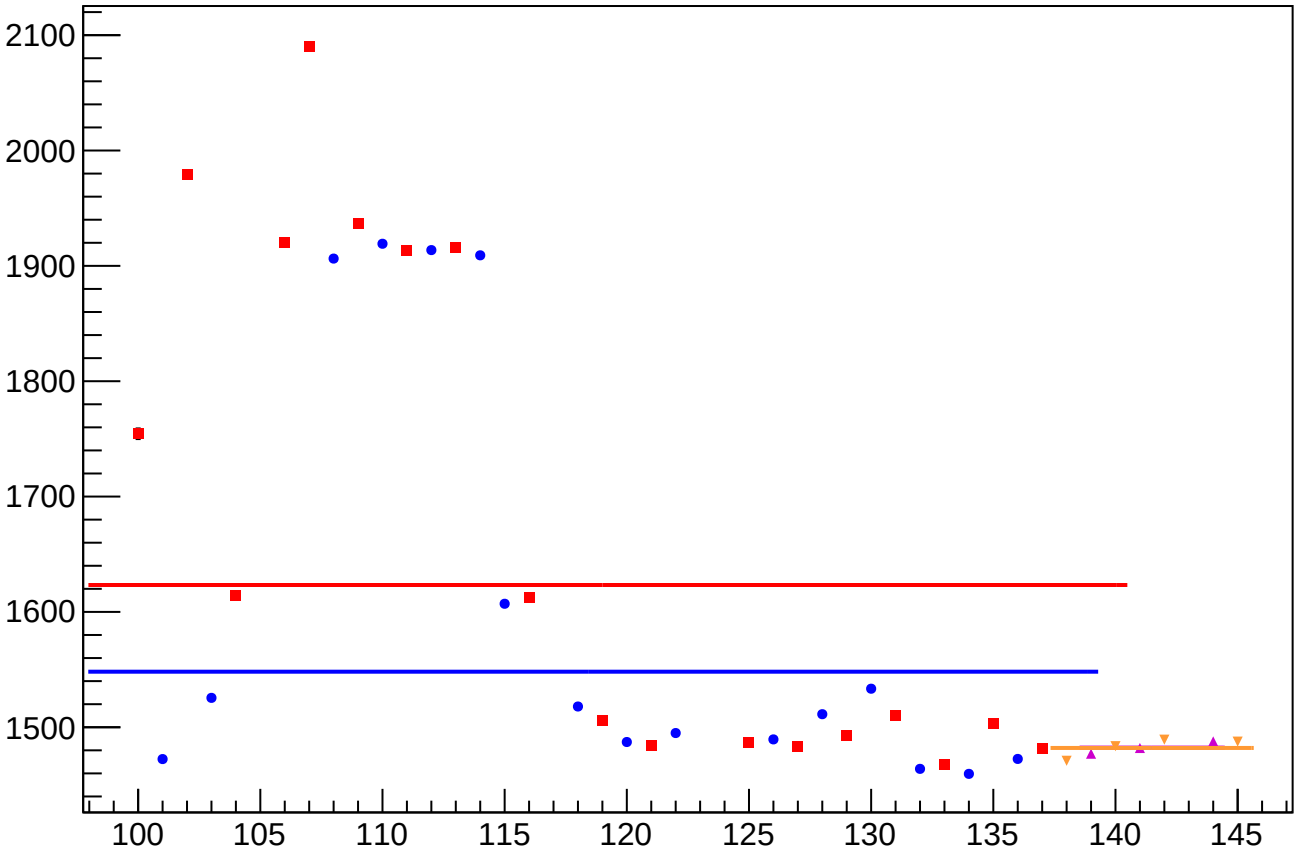
Left: 2278.359+/-631.815 $\chi^2$/NDF: 9.4/6

Right: 1787.686+/-417.734 $\chi^2$/NDF: 27.4/33

In: 2050.852+/-488.258 $\chi^2$/NDF:19.7/18

Out: 1818.686+/-497.458 $\chi^2$/NDF:17.4/21

All: 1936.936+/-348.458 $\chi^2$/NDF: 37.2/40




Right In: 1548.174+/-0.408 $\chi^2$/NDF: 119905.3/15

Left Out: 1482.059+/-0.618 $\chi^2$/NDF:133.3/3

Right Out: 1623.331+/-0.428 $\chi^2$/NDF: 211534.0/17

Left In: 1482.369+/-0.646 $\chi^2$/NDF:45.3/2

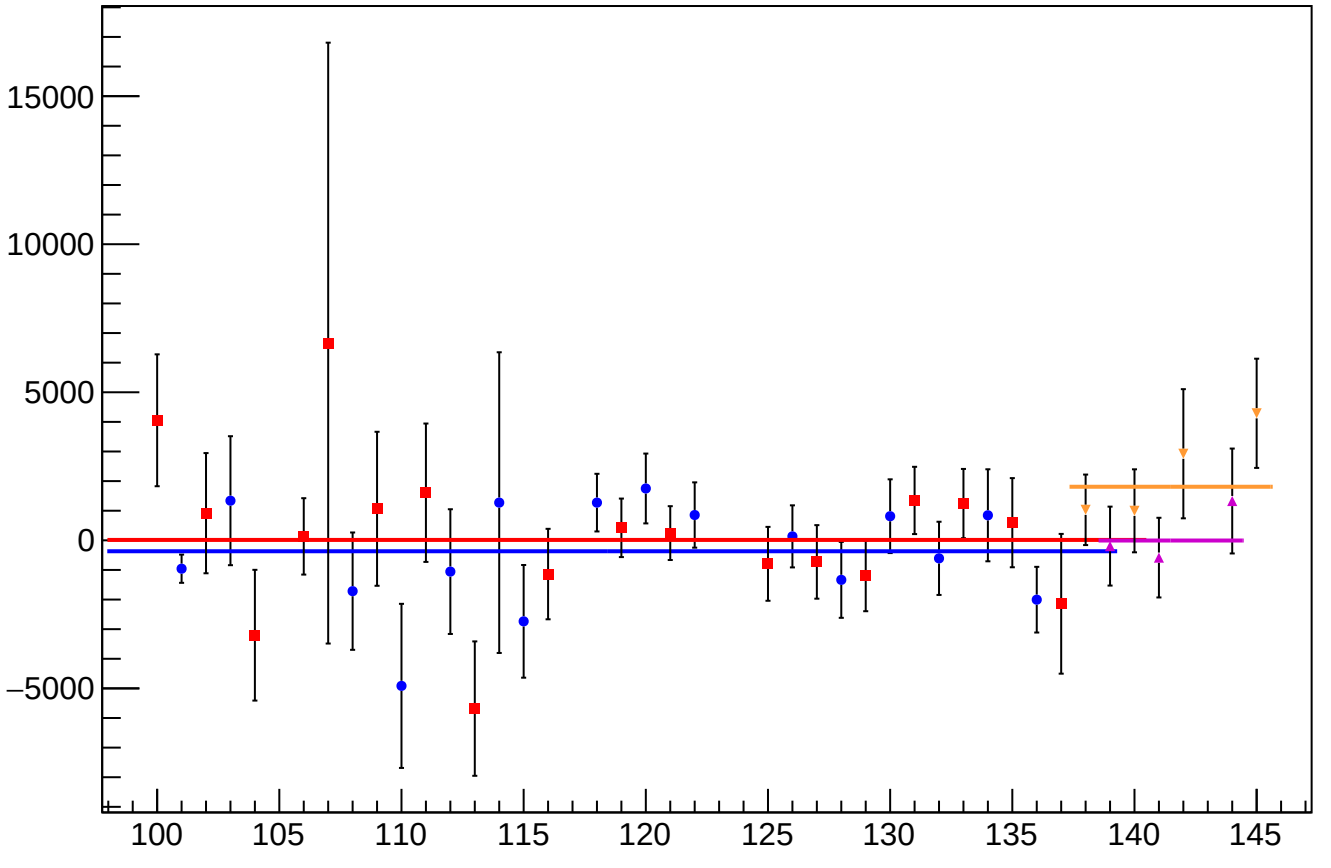
Left: 1482.207+/-0.447 $\chi^2$/NDF: 178.7/6

Right: 1584.024+/-0.295 $\chi^2$/NDF: 347589.8/33

In: 1529.386+/-0.345 $\chi^2$/NDF:127361.4/18

Out: 1577.622+/-0.352 $\chi^2$/NDF:246969.5/21

All: 1553.054+/-0.246 $\chi^2$/NDF: 383908.6/40




Right In: -368.708+/-286.577 $\chi^2$/NDF: 18.9/15

Left Out: 1809.536+/-762.707 $\chi^2$/NDF:2.8/3

Right Out: 13.729+/-341.569 $\chi^2$/NDF: 19.1/17

Left In: -6.251+/-835.050 $\chi^2$/NDF:0.8/2

Left: 983.689+/-563.157 $\chi^2$/NDF: 6.2/6

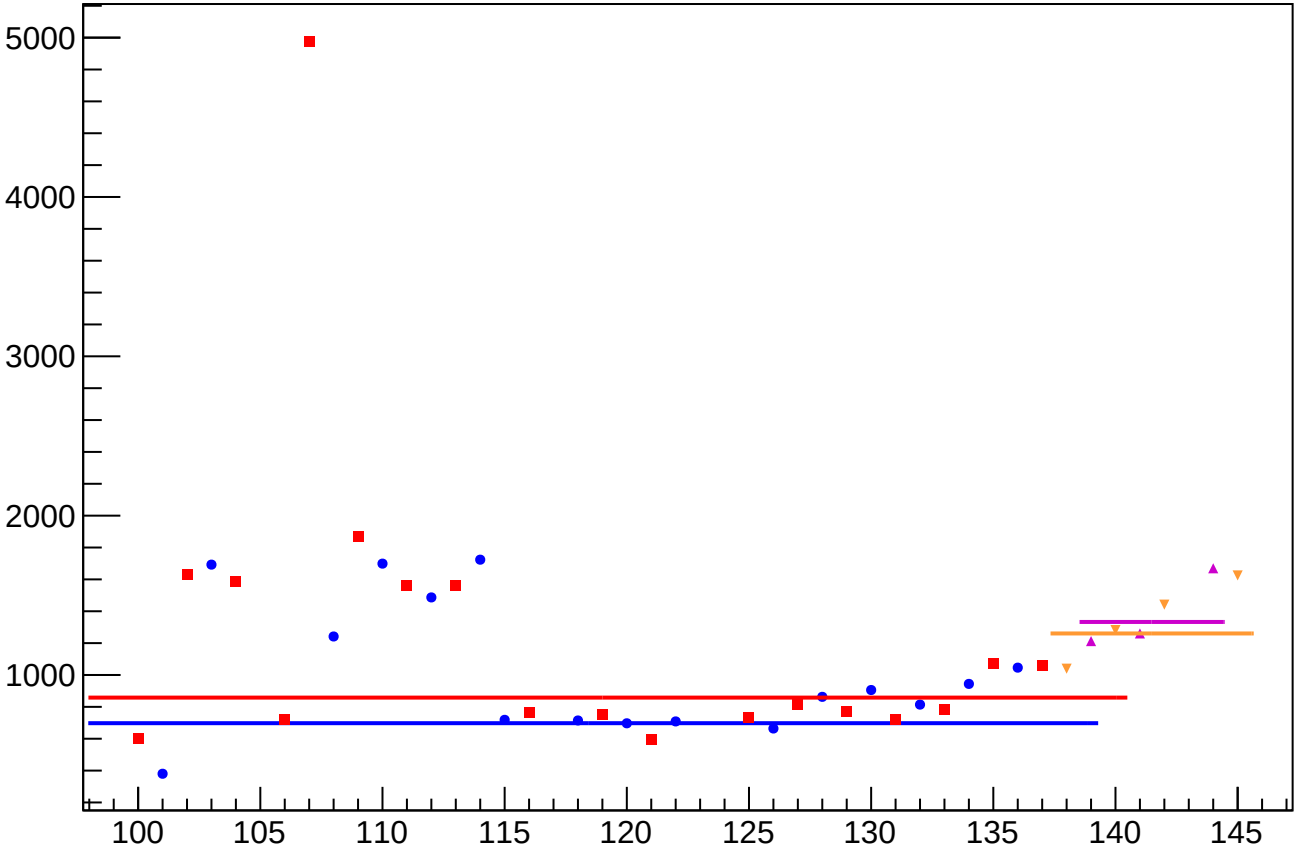
Right: -210.716+/-219.541 $\chi^2$/NDF: 38.7/33

In: -330.517+/-271.059 $\chi^2$/NDF:19.8/18

Out: 313.726+/-311.736 $\chi^2$/NDF:26.5/21

All: -53.144+/-204.548 $\chi^2$/NDF: 48.8/40

# asym_usl_atl1_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 697.517+/-0.203 $\chi^2$/NDF: 2435601.0/15

Left Out: 1260.606+/-0.539 $\chi^2$/NDF:161207.4/3

Right Out: 858.095+/-0.242 $\chi^2$/NDF: 1882164.5/17

Left In: 1332.843+/-0.590 $\chi^2$/NDF:94318.7/2

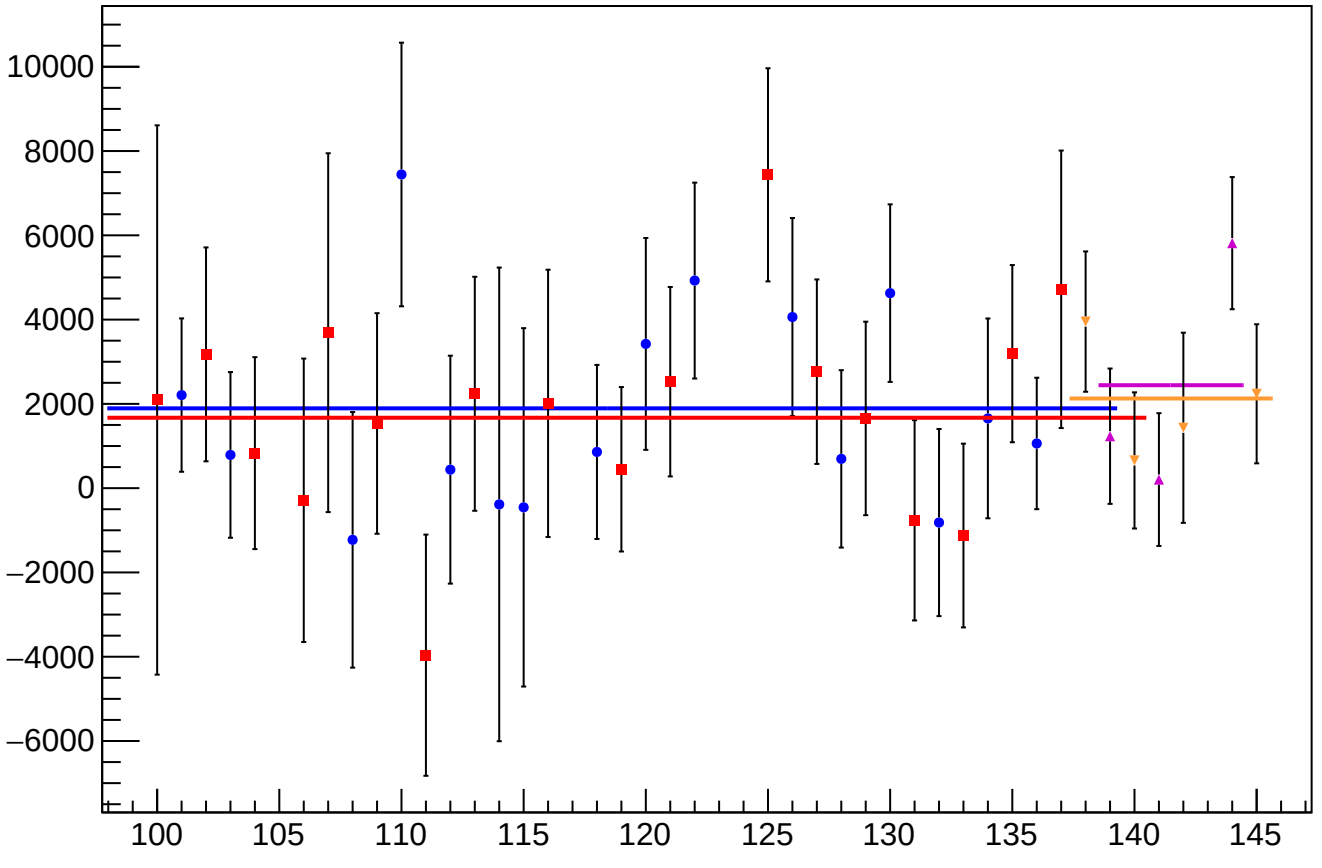
Left: 1293.461+/-0.398 $\chi^2$/NDF: 263685.7/6

Right: 763.855+/-0.155 $\chi^2$/NDF: 4577183.5/33

In: 764.459+/-0.192 $\chi^2$/NDF:3565645.1/18

Out: 925.337+/-0.220 $\chi^2$/NDF:2507338.1/21

All: 833.723+/-0.145 $\chi^2$/NDF: 6376310.7/40




Right In: 1894.169+/-577.630 $\chi^2$/NDF: 12.3/15

Left Out: 2127.597+/-874.552 $\chi^2$/NDF:2.1/3

Right Out: 1670.931+/-604.838 $\chi^2$/NDF: 15.0/17

Left In: 2442.955+/-913.780 $\chi^2$/NDF:7.2/2

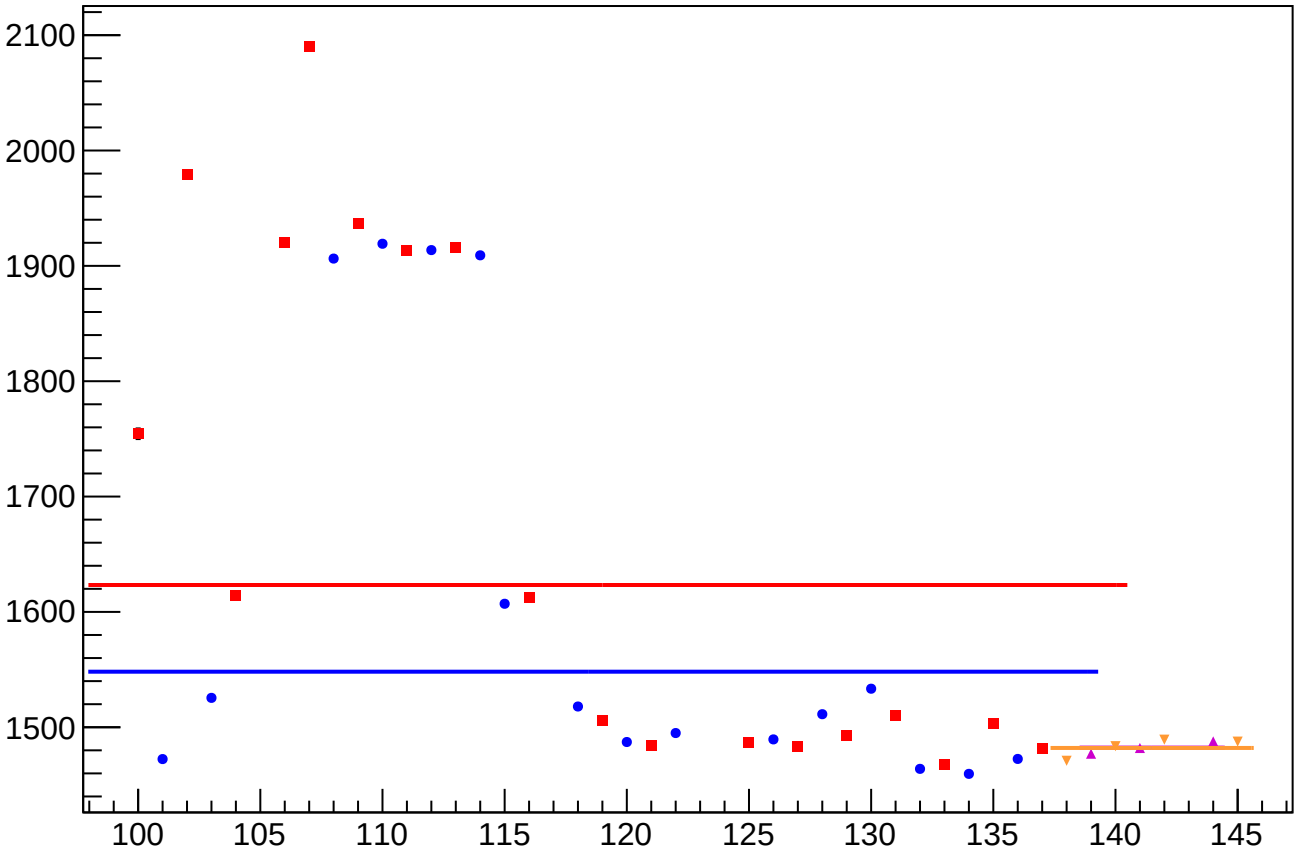
Left: 2278.362+/-631.815 $\chi^2$/NDF: 9.4/6

Right: 1787.684+/-417.734 $\chi^2$/NDF: 27.4/33

In: 2050.851+/-488.258 $\chi^2$/NDF:19.7/18

Out: 1818.685+/-497.458 $\chi^2$/NDF:17.4/21

All: 1936.935+/-348.458 $\chi^2$/NDF: 37.2/40




Right In: 1548.174+/-0.408 $\chi^2$/NDF: 119905.4/15

Left Out: 1482.059+/-0.618 $\chi^2$/NDF:133.3/3

Right Out: 1623.330+/-0.428 $\chi^2$/NDF: 211533.9/17

Left In: 1482.369+/-0.646 $\chi^2$/NDF:45.3/2

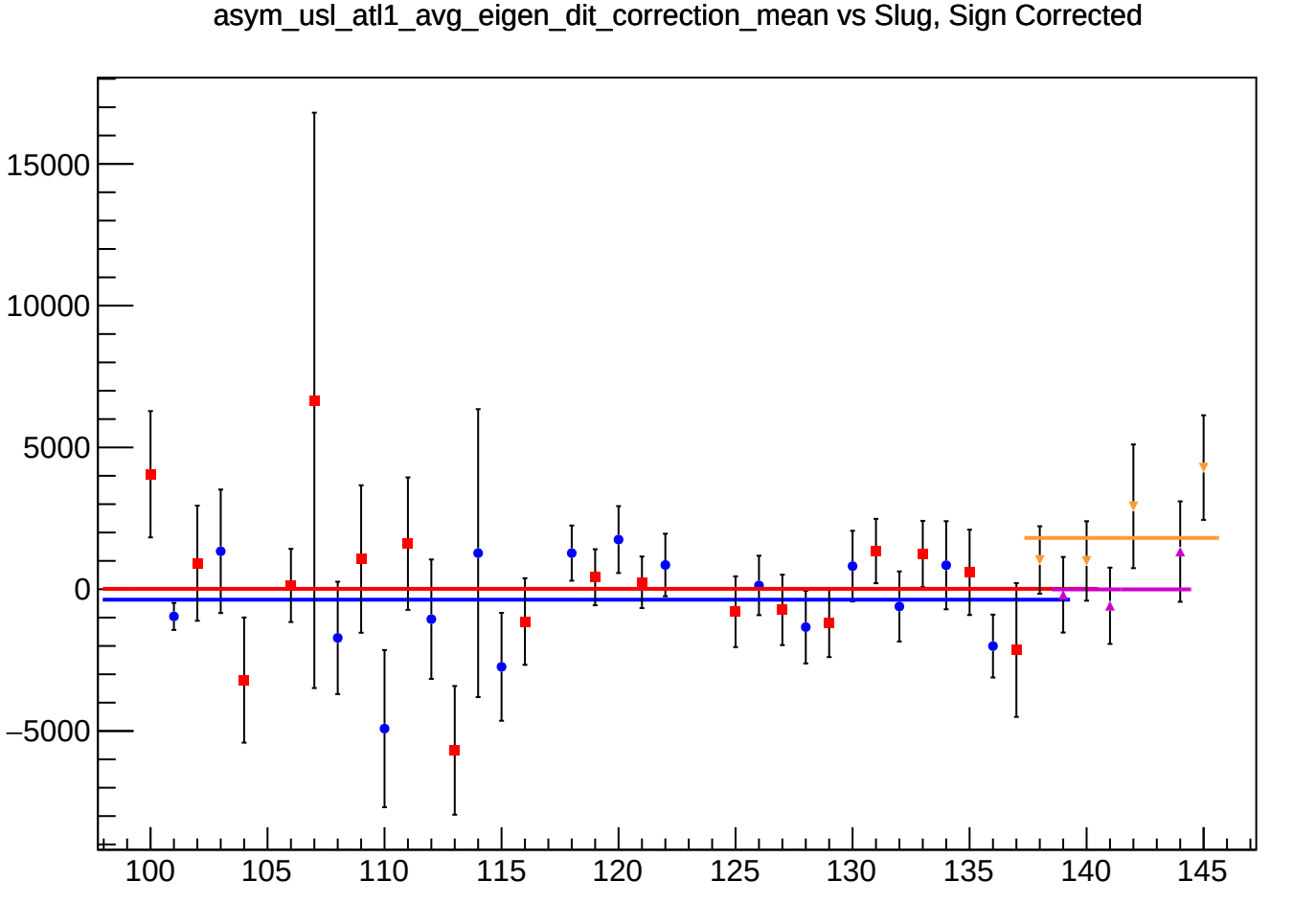
Left: 1482.207+/-0.447 $\chi^2$/NDF: 178.7/6

Right: 1584.024+/-0.295 $\chi^2$/NDF: 347589.7/33

In: 1529.386+/-0.345 $\chi^2$/NDF:127361.4/18

Out: 1577.622+/-0.352 $\chi^2$/NDF:246969.2/21

All: 1553.054+/-0.246 $\chi^2$/NDF: 383908.3/40




Right In: -368.707+/-286.576 $\chi^2$/NDF: 18.9/15

Left Out: 1809.540+/-762.708 $\chi^2$/NDF:2.8/3

Right Out: 13.730+/-341.568 $\chi^2$/NDF: 19.1/17

Left In: -6.251+/-835.051 $\chi^2$/NDF:0.8/2

Left: 983.690+/-563.158 $\chi^2$/NDF: 6.2/6

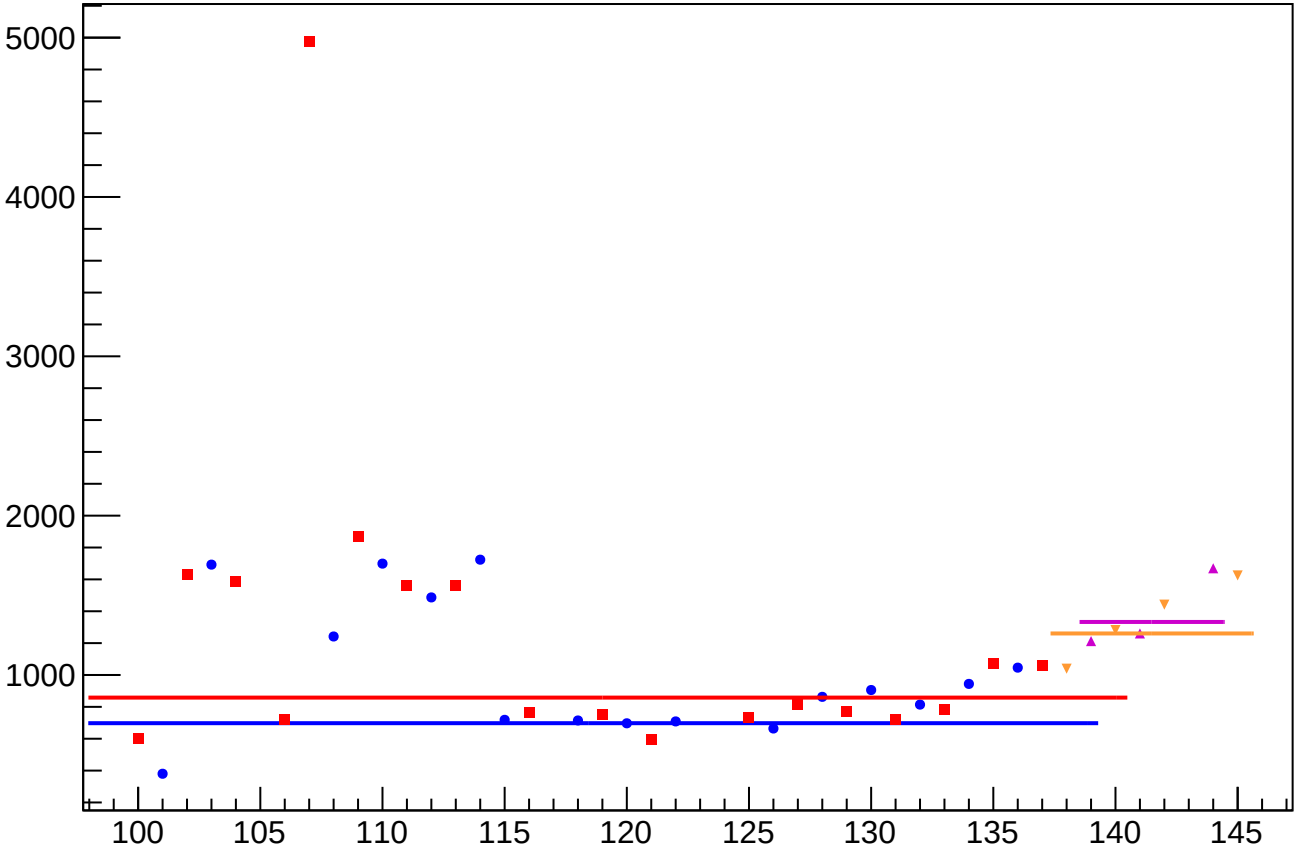
Right: -210.715+/-219.541 $\chi^2$/NDF: 38.7/33

In: -330.516+/-271.059 $\chi^2$/NDF:19.8/18

Out: 313.726+/-311.735 $\chi^2$/NDF:26.5/21

All: -53.143+/-204.547 $\chi^2$/NDF: 48.8/40

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: 1260.608+/-0.539 $\chi^2$/NDF:161208.1/3

Right Out: 858.094+/-0.242 $\chi^2$/NDF: 1882174.1/17

Left In: 1332.845+/-0.590 $\chi^2$/NDF:94319.0/2

Left: 1293.462+/-0.398 $\chi^2$/NDF: 263686.7/6

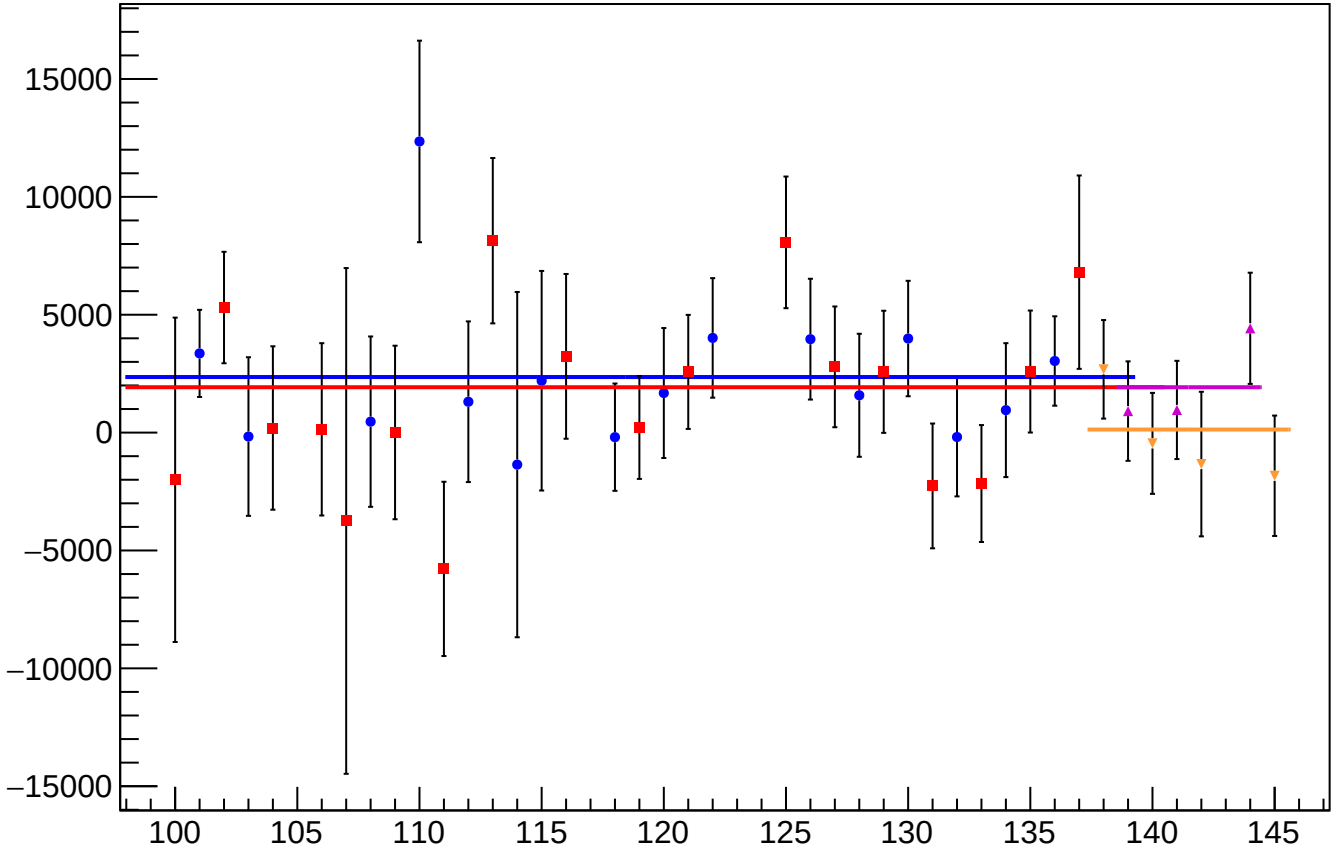
Right: 763.854+/-0.155 $\chi^2$/NDF: 4577181.2/33

In: 764.459+/-0.192 $\chi^2$/NDF:3565641.2/18

Out: 925.335+/-0.220 $\chi^2$/NDF:2507354.8/21

All: 833.723+/-0.145 $\chi^2$/NDF: 6376318.3/40

# asym_usl_atl1_avg_mean vs Slug, Sign Corrected




Right In: 2356.998+/-678.944 $\chi^2$/NDF: 11.0/15

Left Out: 130.181+/-1189.689 $\chi^2$/NDF:2.4/3

Right Out: 1924.824+/-706.809 $\chi^2$/NDF: 23.4/17

Left In: 1924.797+/-1255.135 $\chi^2$/NDF:1.6/2

Left: 979.483+/-863.447 $\chi^2$/NDF: 5.0/6

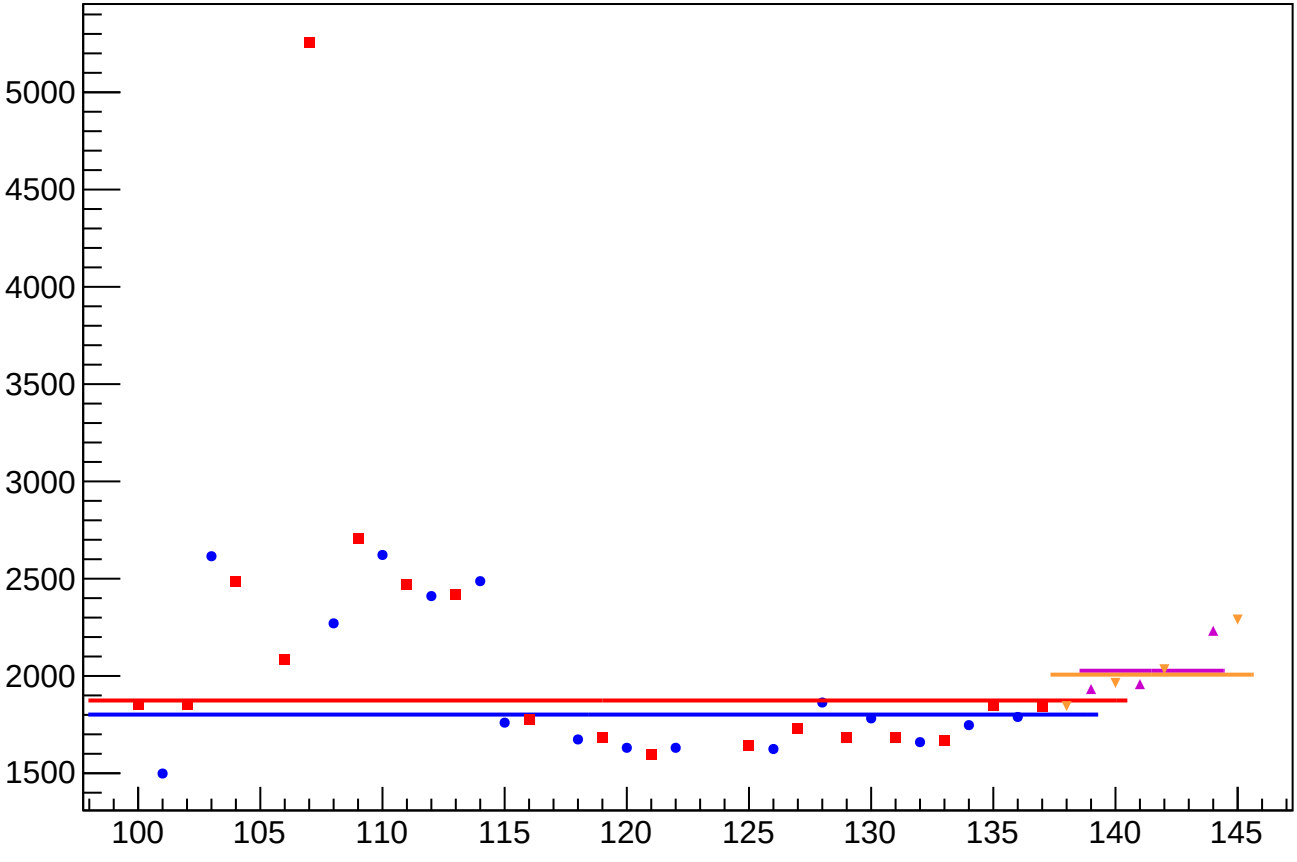
Right: 2149.598+/-489.640 $\chi^2$/NDF: 34.6/33

In: 2259.160+/-597.173 $\chi^2$/NDF:12.7/18

Out: 1456.629+/-607.656 $\chi^2$/NDF:27.5/21

All: 1864.877+/-425.923 $\chi^2$/NDF: 41.1/40

# asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1801.529+/-0.480 $\chi^2$/NDF: 400702.5/15

Left Out: 2006.767+/-0.841 $\chi^2$/NDF:37514.2/3

Right Out: 1873.976+/-0.500 $\chi^2$/NDF: 569909.0/17

Left In: 2026.818+/-0.888 $\chi^2$/NDF:21337.3/2

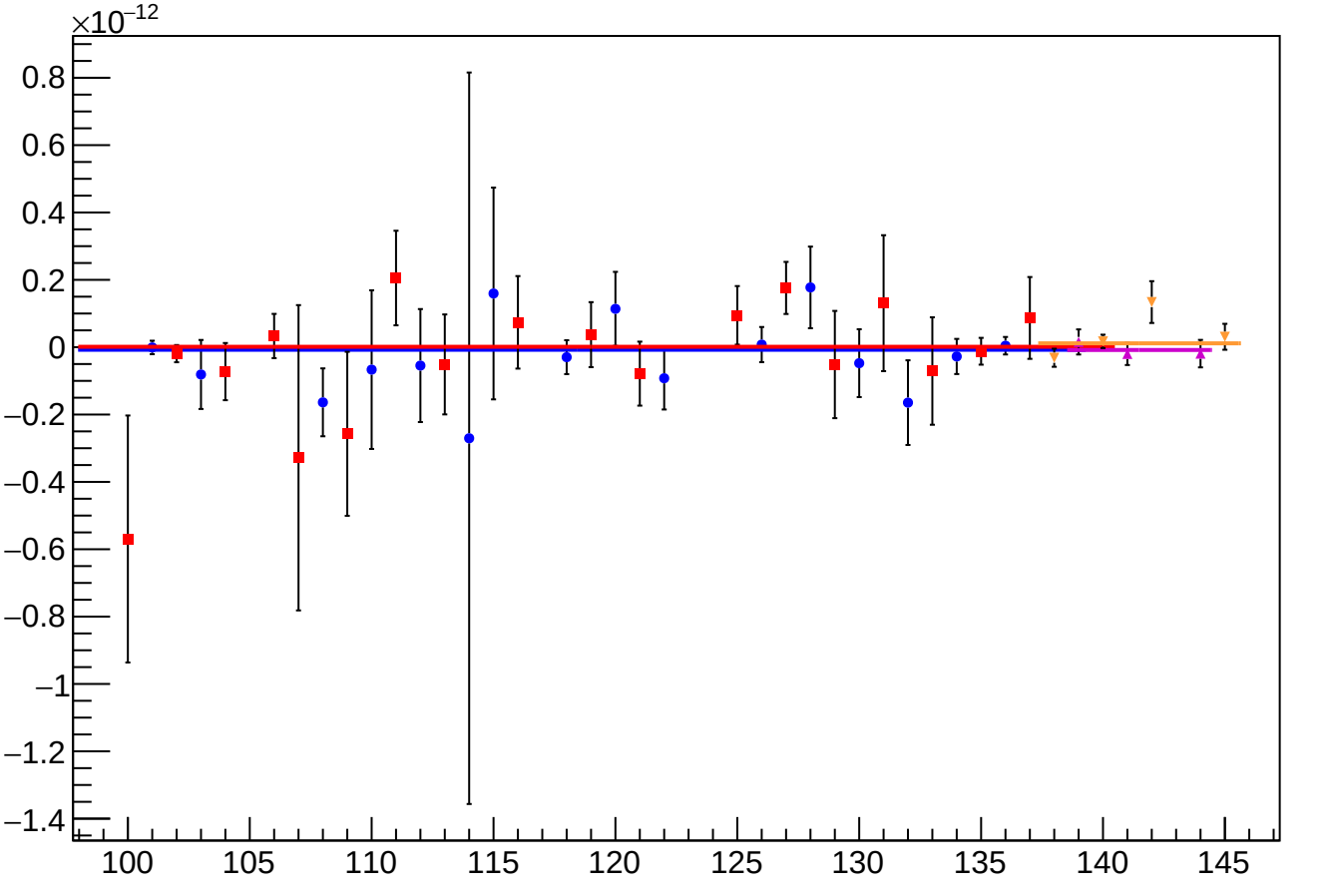
Left: 2016.256+/-0.611 $\chi^2$/NDF: 59120.3/6

Right: 1836.296+/-0.346 $\chi^2$/NDF: 981540.0/33

In: 1852.528+/-0.422 $\chi^2$/NDF:471889.5/18

Out: 1908.619+/-0.430 $\chi^2$/NDF:625839.9/21

All: 1880.085+/-0.301 $\chi^2$/NDF: 1106398.5/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.8/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.7/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.6/2

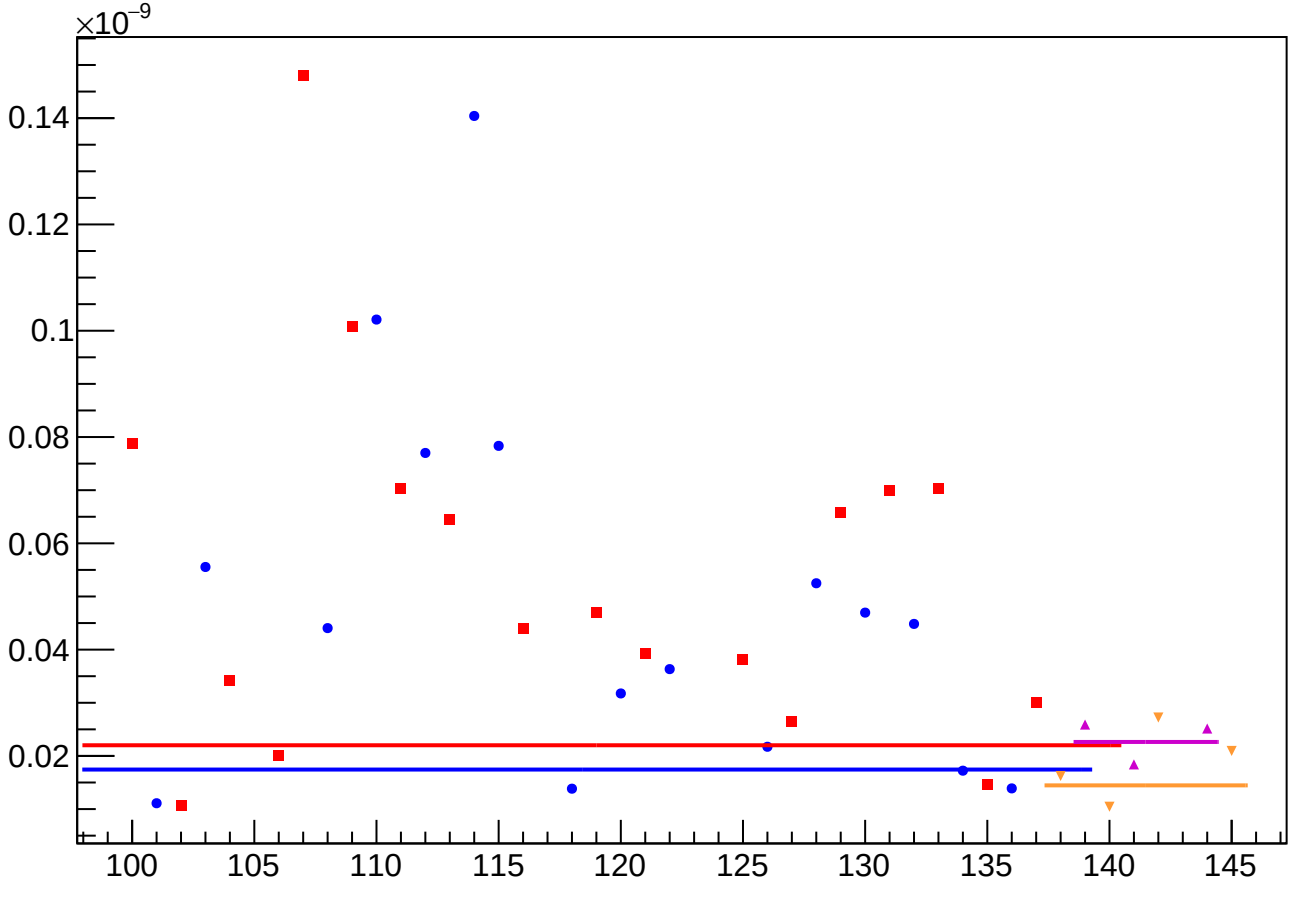
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.0/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:10.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.7/21

All: -0.000+/-0.000 $\chi^2$/NDF: 35.4/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1840069.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:231192.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2098640.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:55802.9/2

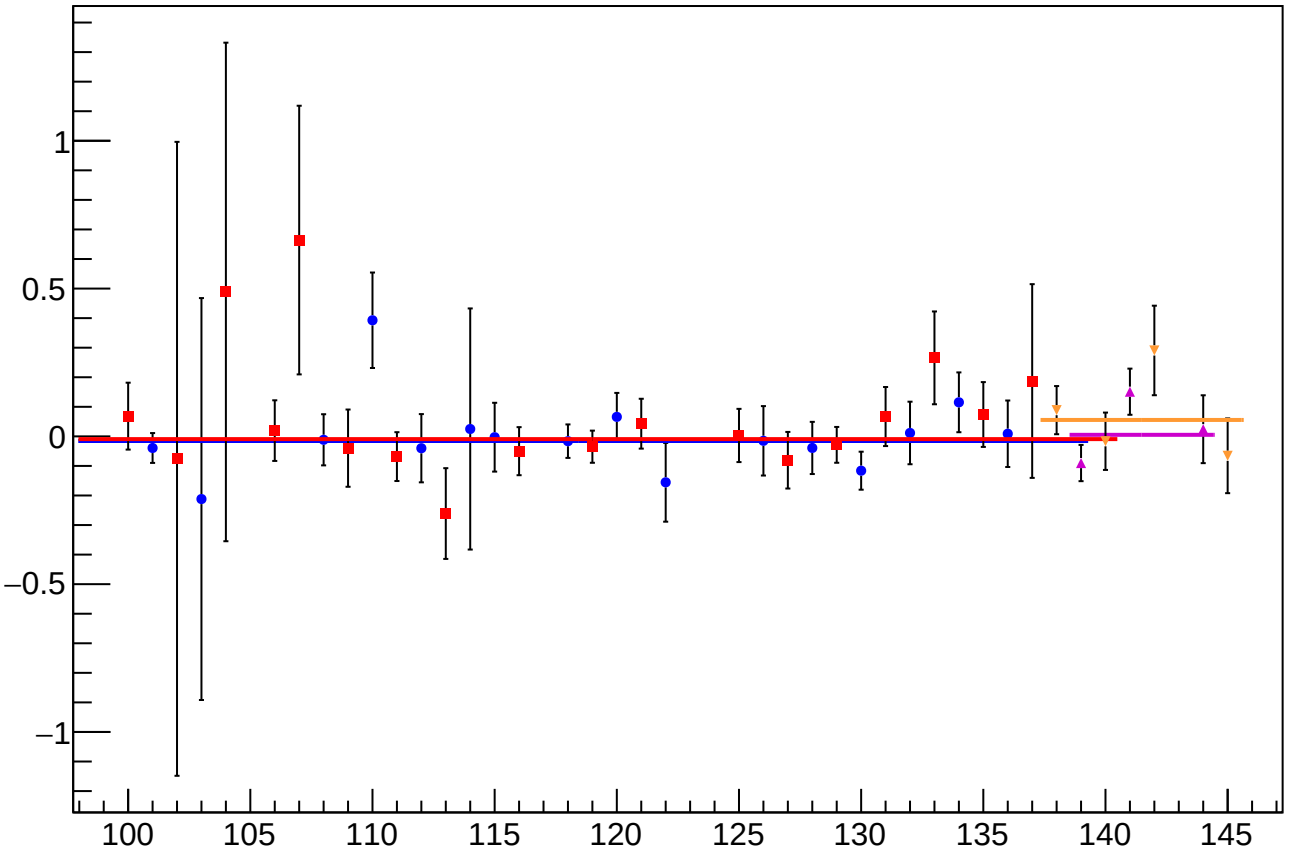
Left: 0.000+/-0.000 $\chi^2$/NDF: 491245.9/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 4028264.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:1982937.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2557377.6/21

All: 0.000+/-0.000 $\chi^2$/NDF: 4554271.6/40




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: 0.056+/-0.052 $\chi^2$/NDF:4.0/3

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: 0.005+/-0.044 $\chi^2$/NDF:5.9/2

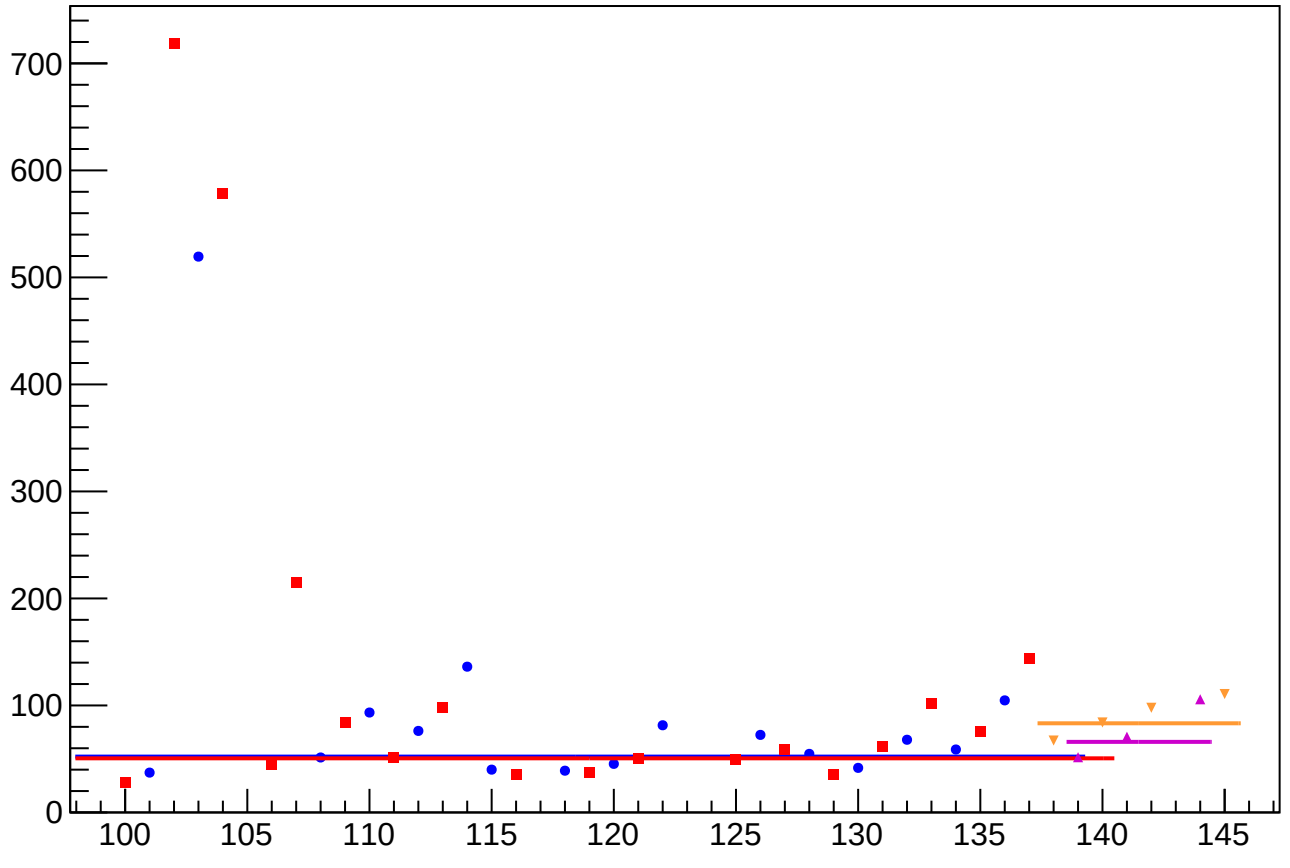
Left: 0.026+/-0.034 $\chi^2$/NDF: 10.5/6

Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.011+/-0.020 $\chi^2$/NDF:19.3/18

Out: 0.002+/-0.022 $\chi^2$/NDF:17.8/21

All: -0.005+/-0.015 $\chi^2$/NDF: 37.3/40




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266928.1/15

Left Out: 83.318+/-0.037 $\chi^2$/NDF:190149.5/3

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051379.6/17

Left In: 65.959+/-0.031 $\chi^2$/NDF:357436.8/2

Left: 73.211+/-0.024 $\chi^2$/NDF: 674970.8/6

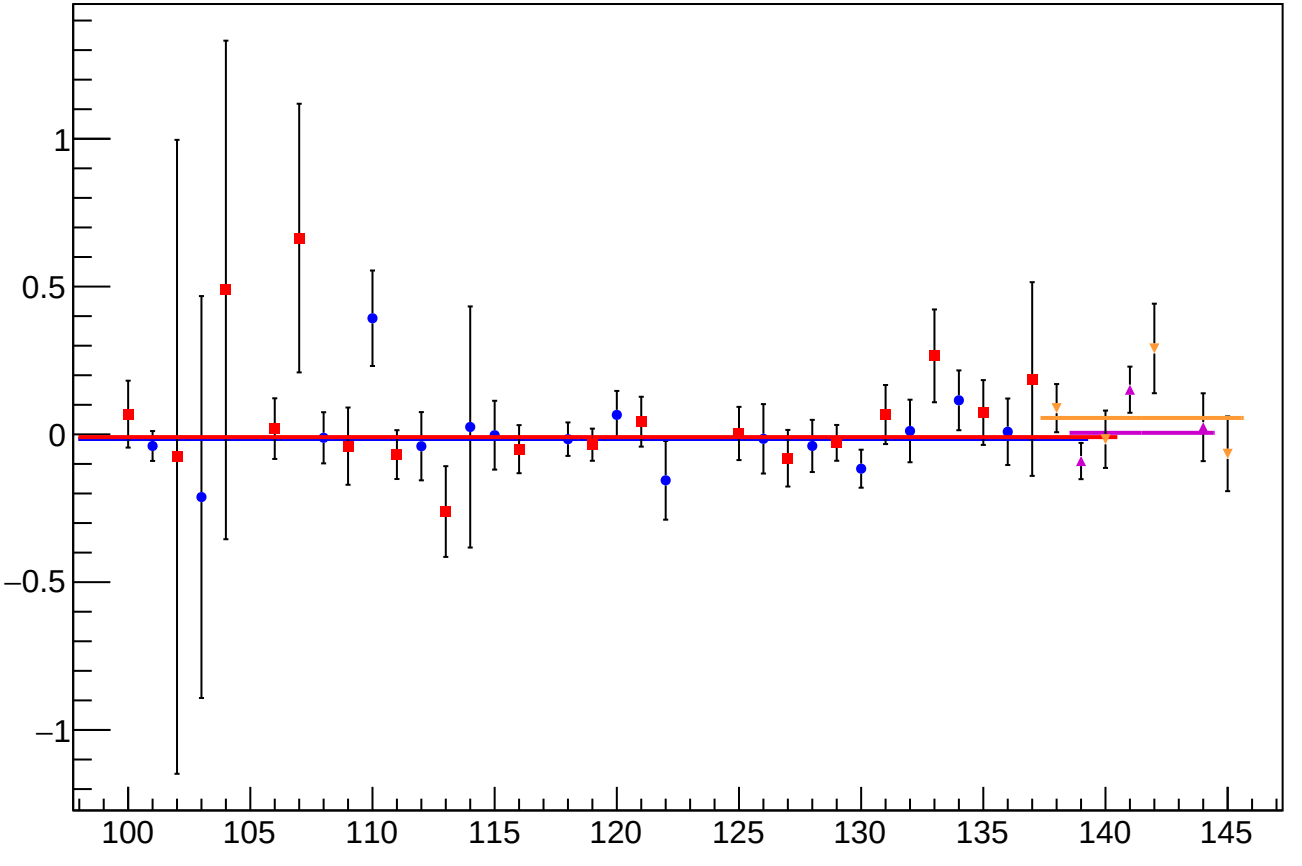
Right: 51.419+/-0.012 $\chi^2$/NDF: 5323147.3/33

In: 55.026+/-0.014 $\chi^2$/NDF:2776666.9/18

Out: 56.087+/-0.015 $\chi^2$/NDF:3888814.0/21

All: 55.522+/-0.010 $\chi^2$/NDF: 6668064.0/40

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.016+/-0.023 $\chi^2$/NDF: 13.2/15

Left Out: 0.056+/-0.052 $\chi^2$/NDF:4.0/3

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: 0.005+/-0.044 $\chi^2$/NDF:5.9/2

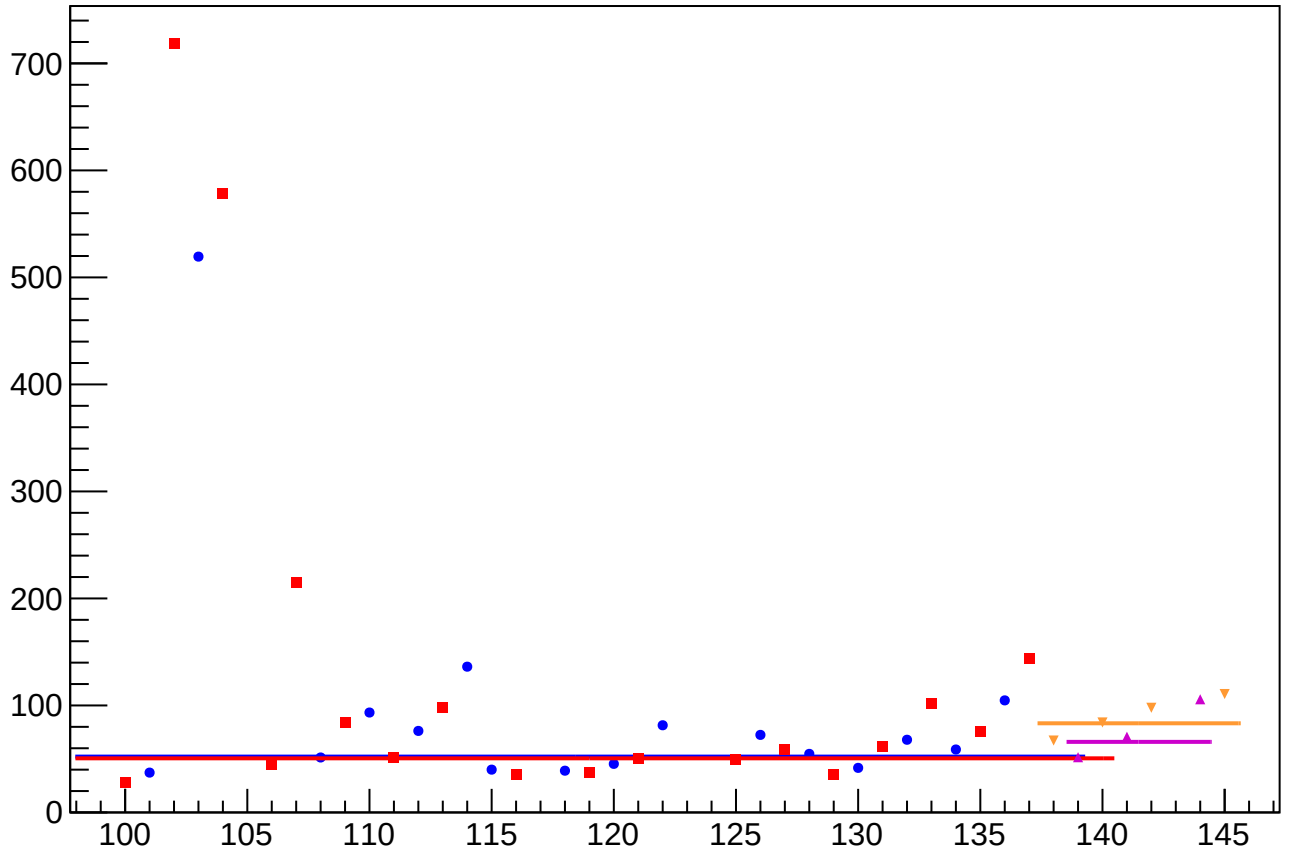
Left: 0.026+/-0.034 $\chi^2$/NDF: 10.5/6

Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.011+/-0.020 $\chi^2$/NDF:19.3/18

Out: 0.002+/-0.022 $\chi^2$/NDF:17.8/21

All: -0.005+/-0.015 $\chi^2$/NDF: 37.3/40




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266928.1/15

Left Out: 83.318+/-0.037 $\chi^2$/NDF:190149.5/3

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051379.6/17

Left In: 65.959+/-0.031 $\chi^2$/NDF:357436.8/2

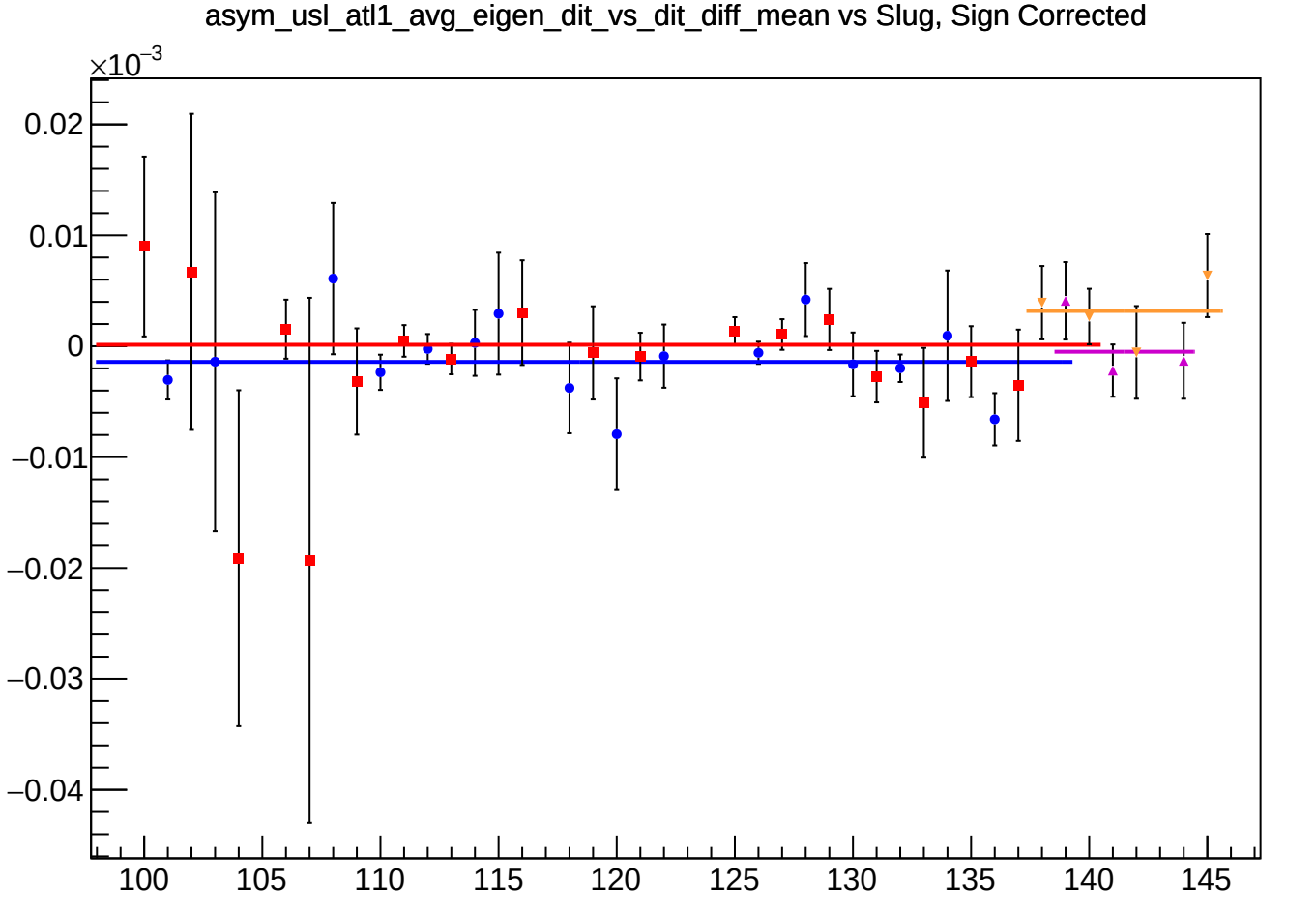
Left: 73.211+/-0.024 $\chi^2$/NDF: 674970.8/6

Right: 51.419+/-0.012 $\chi^2$/NDF: 5323147.3/33

In: 55.026+/-0.014 $\chi^2$/NDF:2776666.9/18

Out: 56.087+/-0.015 $\chi^2$/NDF:3888814.0/21

All: 55.522+/-0.010 $\chi^2$/NDF: 6668064.0/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.6/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.6/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.3/2

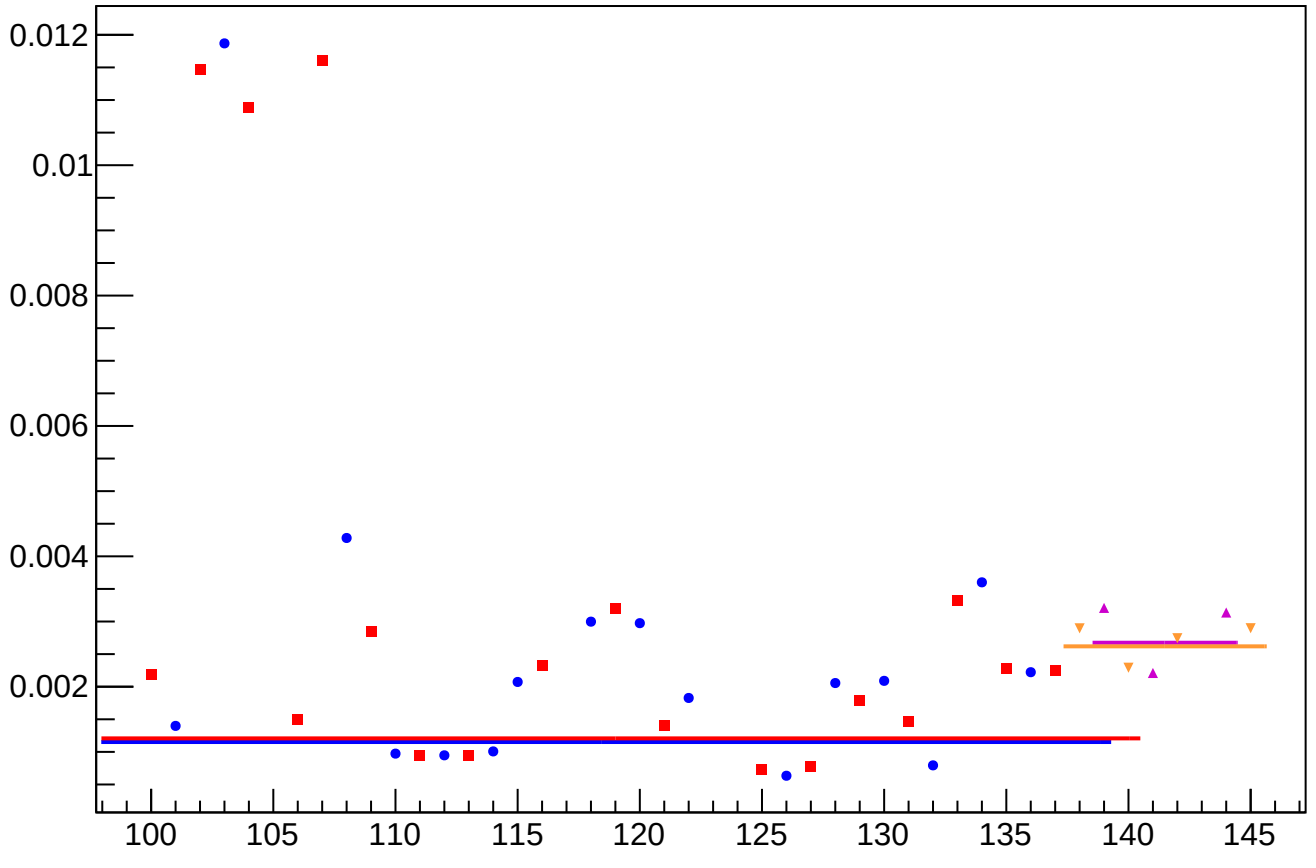
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.4/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:17.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:16.4/21

All: -0.000+/-0.000 $\chi^2$/NDF: 40.0/40




Right In: 0.001+/-0.000 $\chi^2$/NDF: 4187928.7/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:61008.0/3

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4521920.0/17

Left In: 0.003+/-0.000 $\chi^2$/NDF:161007.5/2

Left: 0.003+/-0.000 $\chi^2$/NDF: 223126.5/6

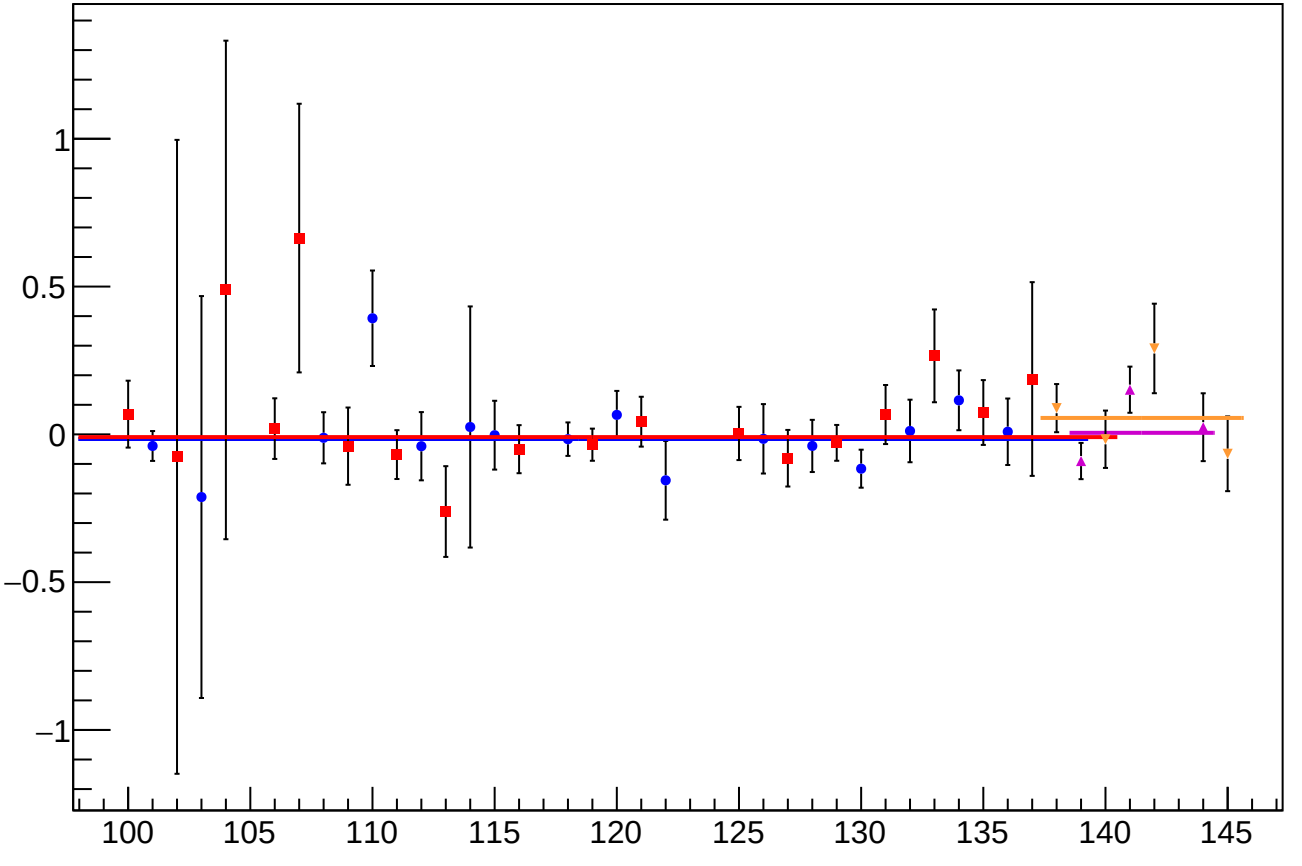
Right: 0.001+/-0.000 $\chi^2$/NDF: 8720631.4/33

In: 0.001+/-0.000 $\chi^2$/NDF:5823114.3/18

Out: 0.001+/-0.000 $\chi^2$/NDF:5935555.4/21

All: 0.001+/-0.000 $\chi^2$/NDF: 11780217.5/40

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: 0.056+/-0.052 $\chi^2$/NDF:4.0/3

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: 0.005+/-0.044 $\chi^2$/NDF:5.9/2

Left: 0.026+/-0.034 $\chi^2$/NDF: 10.5/6

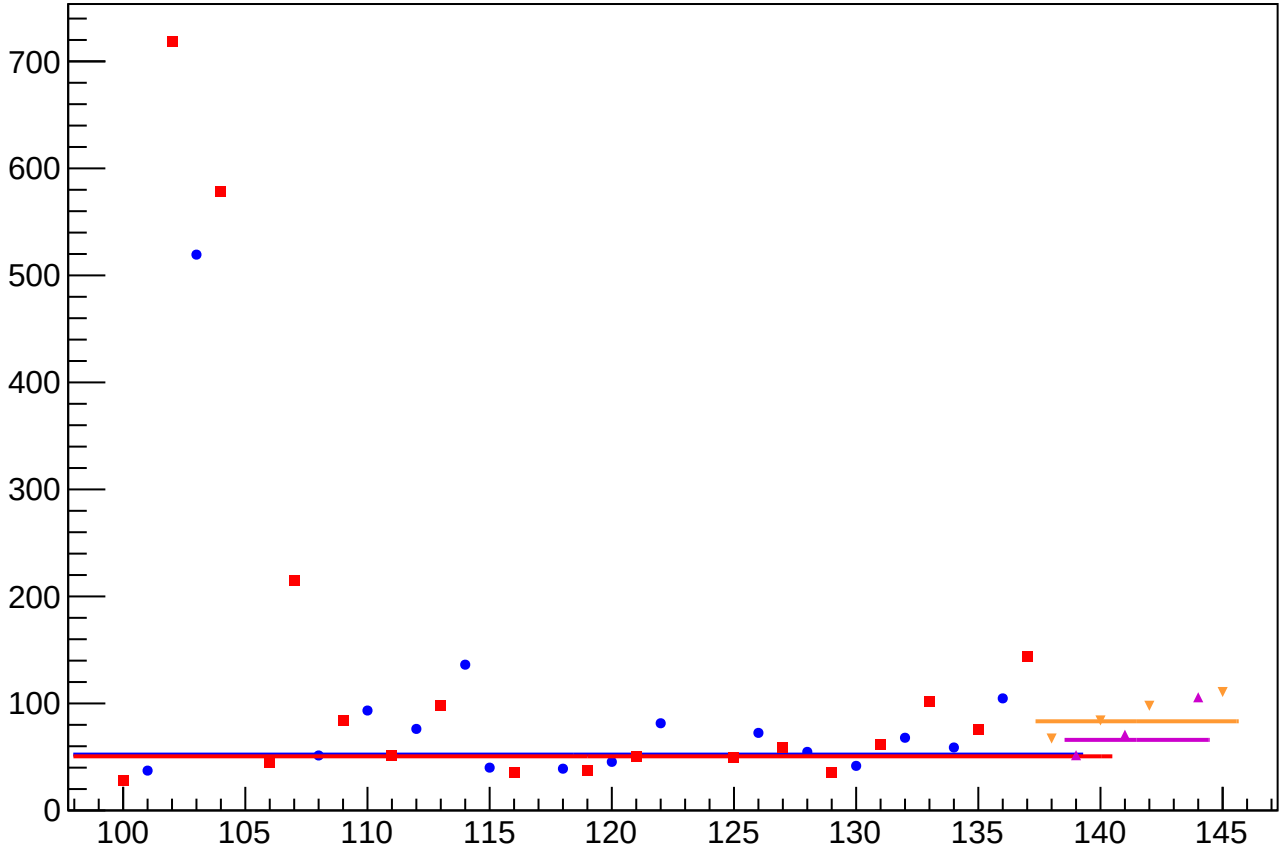
Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.011+/-0.020 $\chi^2$/NDF:19.3/18

Out: 0.002+/-0.022 $\chi^2$/NDF:17.8/21

All: -0.005+/-0.015 $\chi^2$/NDF: 37.3/40

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: 83.317+/-0.037 $\chi^2$/NDF:190148.4/3

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051364.2/17

Left In: 65.959+/-0.031 $\chi^2$/NDF:357435.4/2

Left: 73.211+/-0.024 $\chi^2$/NDF: 674965.4/6

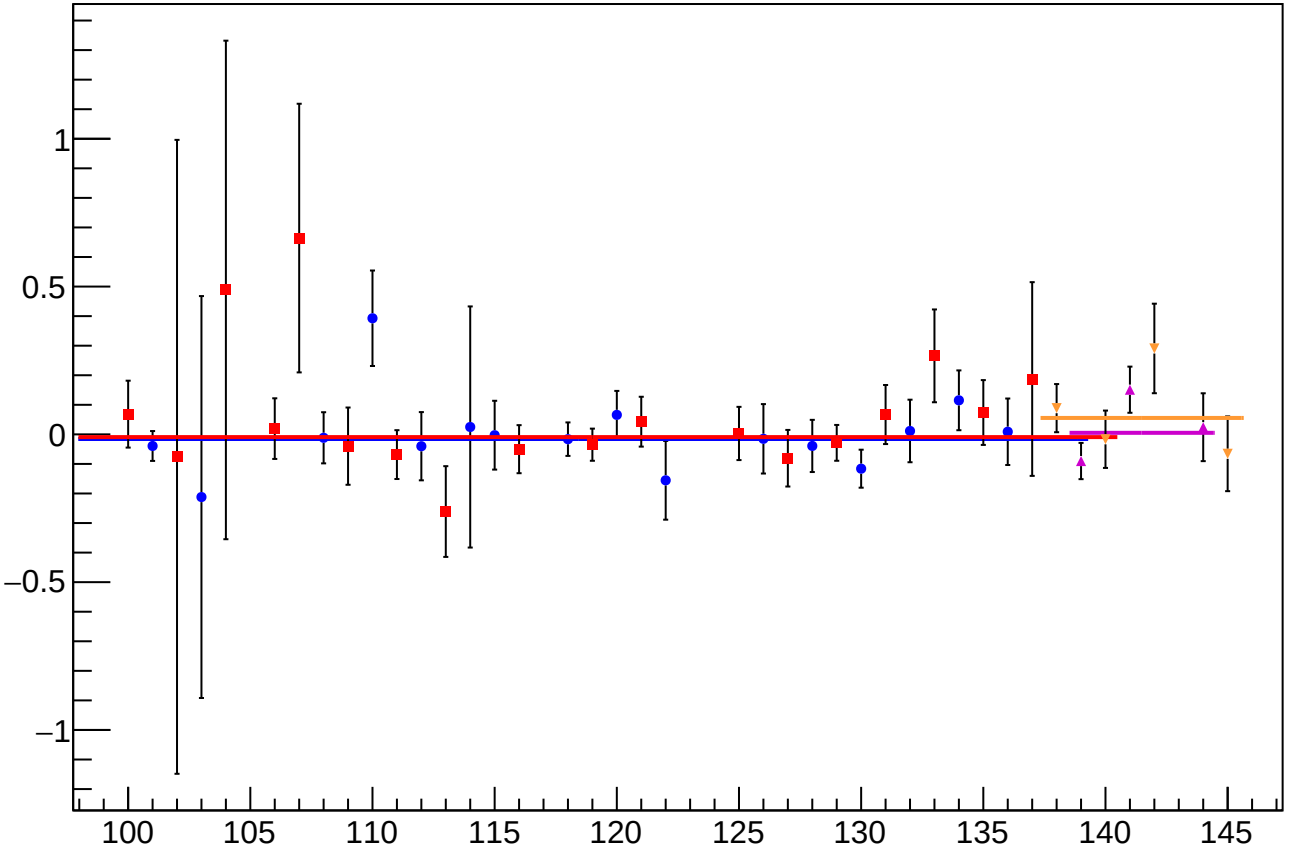
Right: 51.419+/-0.012 $\chi^2$/NDF: 5323126.6/33

In: 55.026+/-0.014 $\chi^2$/NDF:2776659.1/18

Out: 56.086+/-0.015 $\chi^2$/NDF:3888796.8/21

All: 55.522+/-0.010 $\chi^2$/NDF: 6668038.2/40

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: 0.056+/-0.052 $\chi^2$/NDF:4.0/3

Right Out: -0.009+/-0.024 $\chi^2$/NDF: 12.5/17

Left In: 0.005+/-0.044 $\chi^2$/NDF:5.9/2

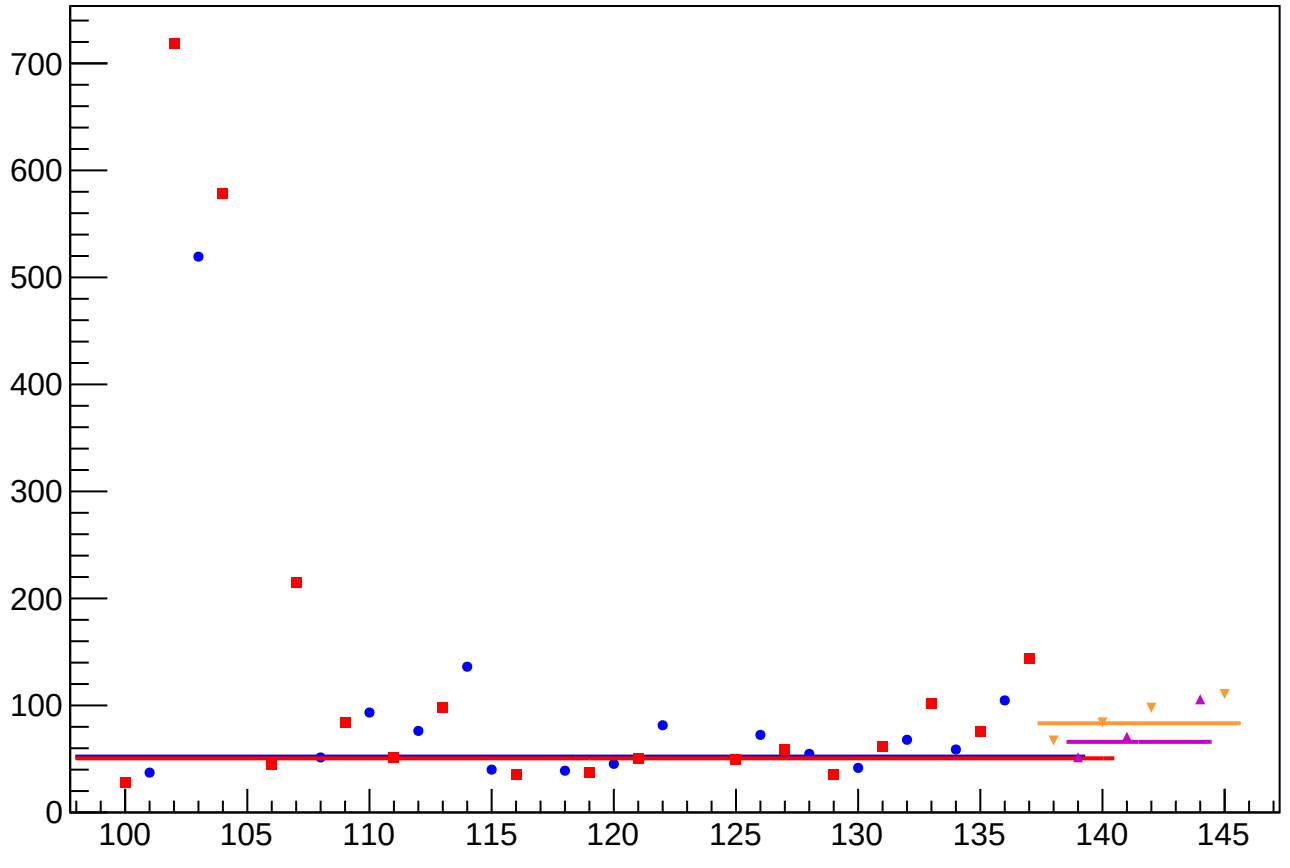
Left: 0.026+/-0.034 $\chi^2$/NDF: 10.5/6

Right: -0.013+/-0.016 $\chi^2$/NDF: 25.7/33

In: -0.011+/-0.020 $\chi^2$/NDF:19.3/18

Out: 0.002+/-0.022 $\chi^2$/NDF:17.8/21

All: -0.005+/-0.015 $\chi^2$/NDF: 37.3/40




Right In: 52.191+/-0.016 $\chi^2$/NDF: 2266922.0/15

Left Out: 83.317+/-0.037 $\chi^2$/NDF:190148.4/3

Right Out: 50.582+/-0.017 $\chi^2$/NDF: 3051364.2/17

Left In: 65.959+/-0.031 $\chi^2$/NDF:357435.4/2

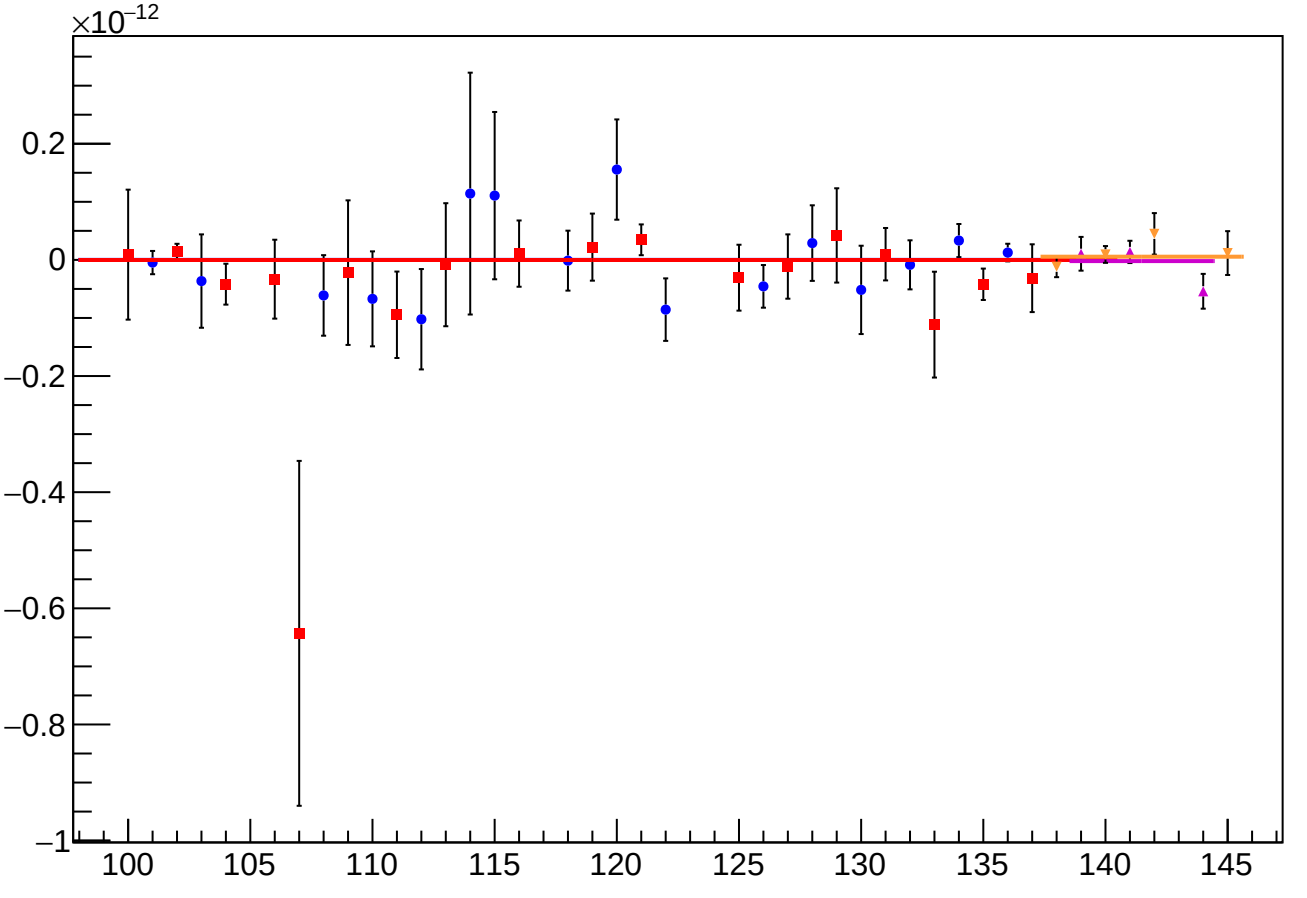
Left: 73.211+/-0.024 $\chi^2$/NDF: 674965.4/6

Right: 51.419+/-0.012 $\chi^2$/NDF: 5323126.6/33

In: 55.026+/-0.014 $\chi^2$/NDF:2776659.1/18

Out: 56.086+/-0.015 $\chi^2$/NDF:3888796.8/21

All: 55.522+/-0.010 $\chi^2$/NDF: 6668038.2/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.2/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.9/2

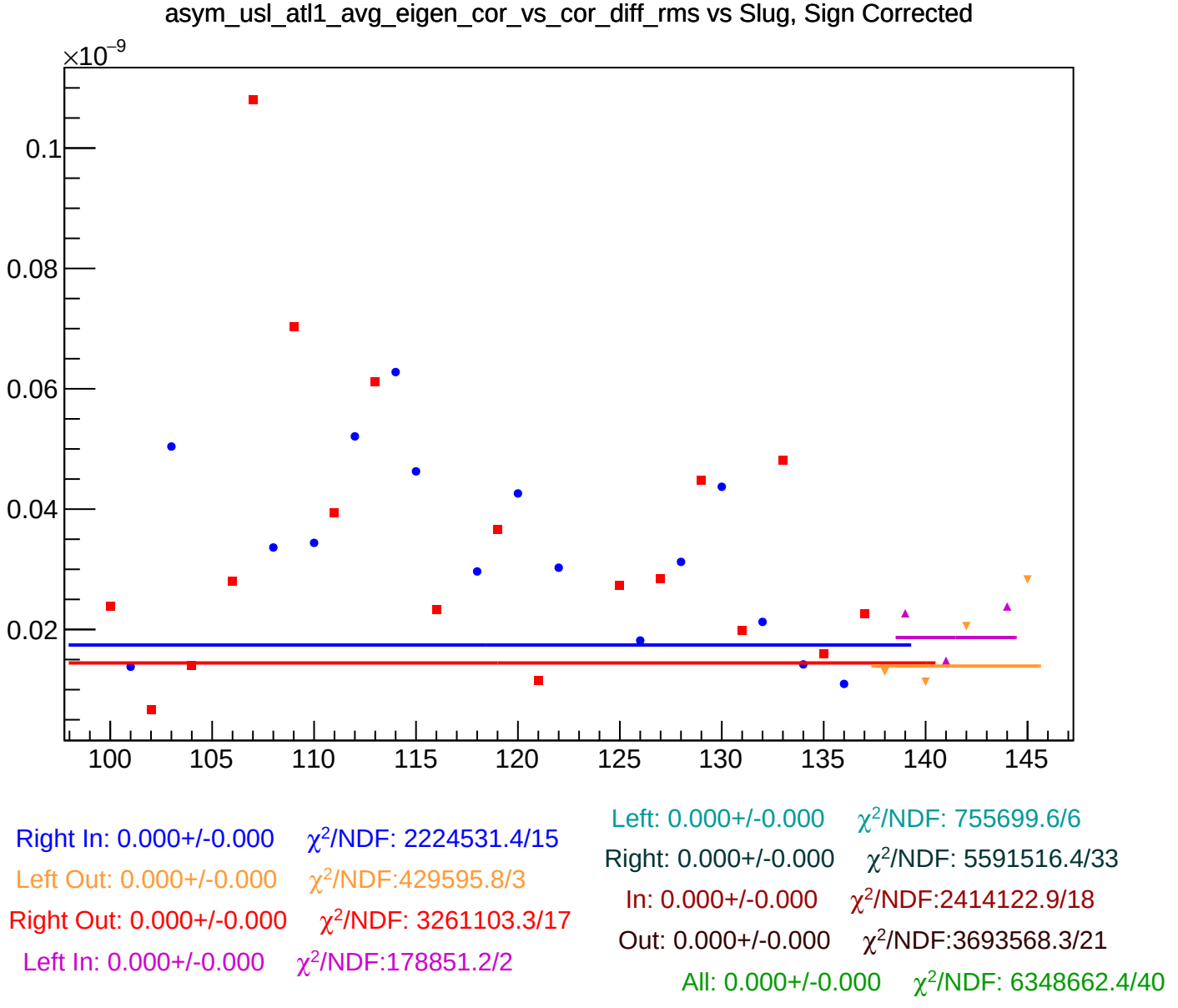
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.3/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.1/33

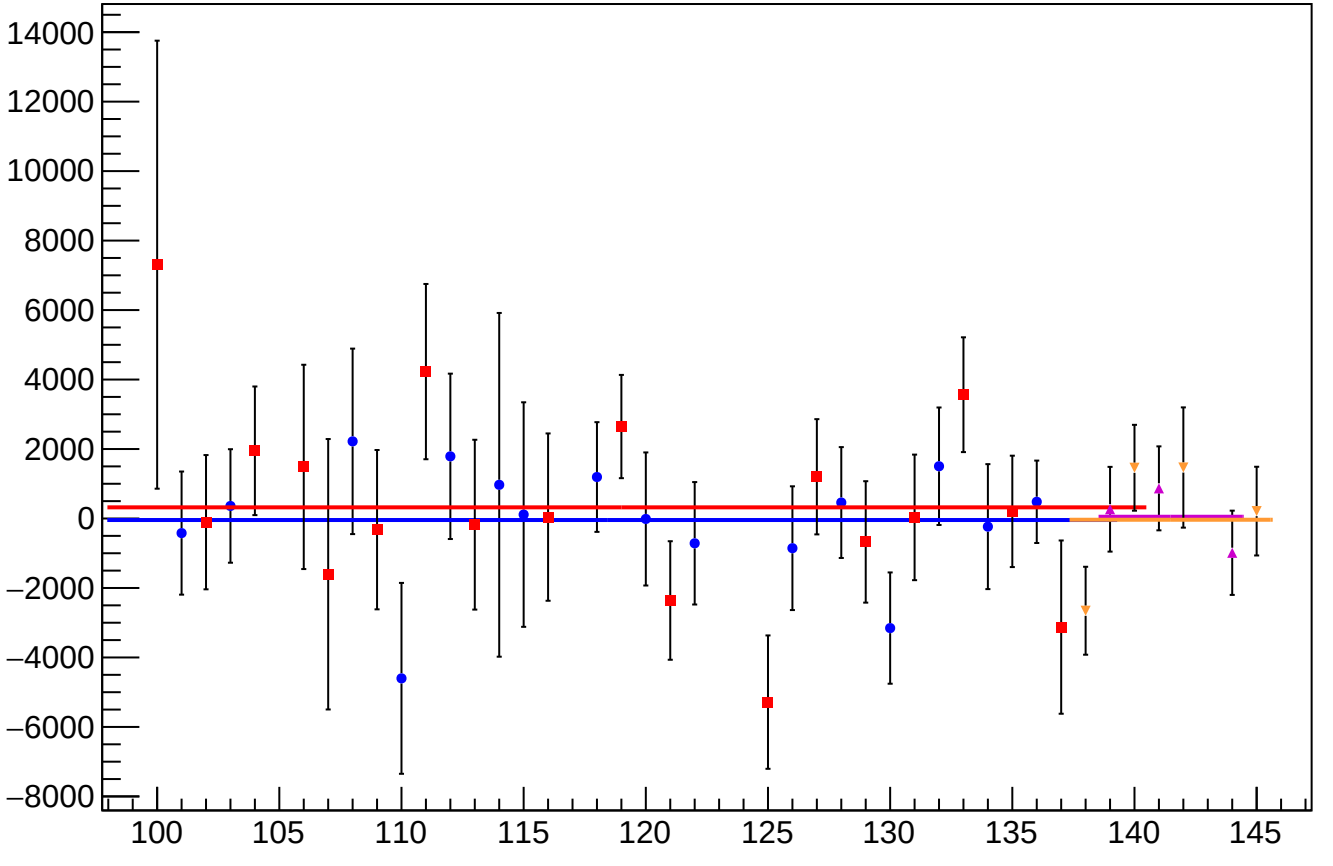
In: -0.000+/-0.000 $\chi^2$/NDF:18.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:18.4/21

All: 0.000+/-0.000 $\chi^2$/NDF: 36.5/40


asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2224531.4/15
Left Out: 0.000+/-0.000 χ²/NDF:429595.8/3
Right Out: 0.000+/-0.000 χ²/NDF: 3261103.3/17
Left In: 0.000+/-0.000 χ²/NDF:178851.2/2
Left: 0.000+/-0.000 χ²/NDF: 755699.6/6
Right: 0.000+/-0.000 χ²/NDF: 5591516.4/33
In: 0.000+/-0.000 χ²/NDF:2414122.9/18
Out: 0.000+/-0.000 χ²/NDF:3693568.3/21
All: 0.000+/-0.000 χ²/NDF: 6348662.4/40

# reg_asym_usl_atl1_dd_mean vs Slug, Sign Corrected




Right In: -43.681+/-459.222 $\chi^2$/NDF: 10.1/15

Left Out: -35.904+/-670.227 $\chi^2$/NDF:6.5/3

Right Out: 321.266+/-474.939 $\chi^2$/NDF: 24.8/17

Left In: 50.352+/-700.687 $\chi^2$/NDF:1.2/2

Left: 5.308+/-484.333 $\chi^2$/NDF: 7.8/6

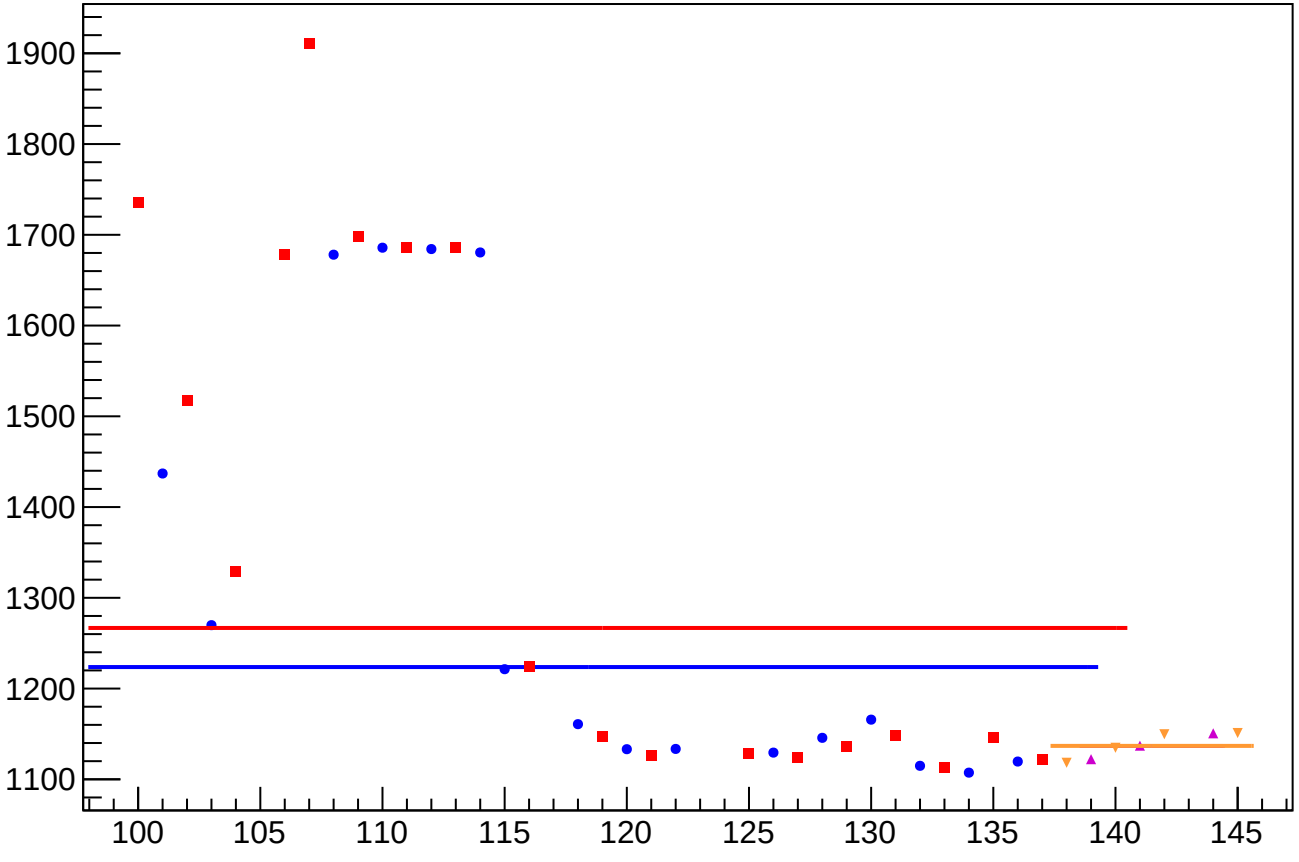
Right: 132.654+/-330.136 $\chi^2$/NDF: 35.2/33

In: -15.427+/-384.083 $\chi^2$/NDF:11.3/18

Out: 201.869+/-387.509 $\chi^2$/NDF:31.5/21

All: 92.256+/-272.791 $\chi^2$/NDF: 43.0/40

# reg_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1136.835+/-0.474 $\chi^2$/NDF:793.3/3

Right Out: 1266.780+/-0.336 $\chi^2$/NDF: 432845.4/17

Left In: 1136.716+/-0.495 $\chi^2$/NDF:549.2/2

Left: 1136.778+/-0.342 $\chi^2$/NDF: 1342.6/6

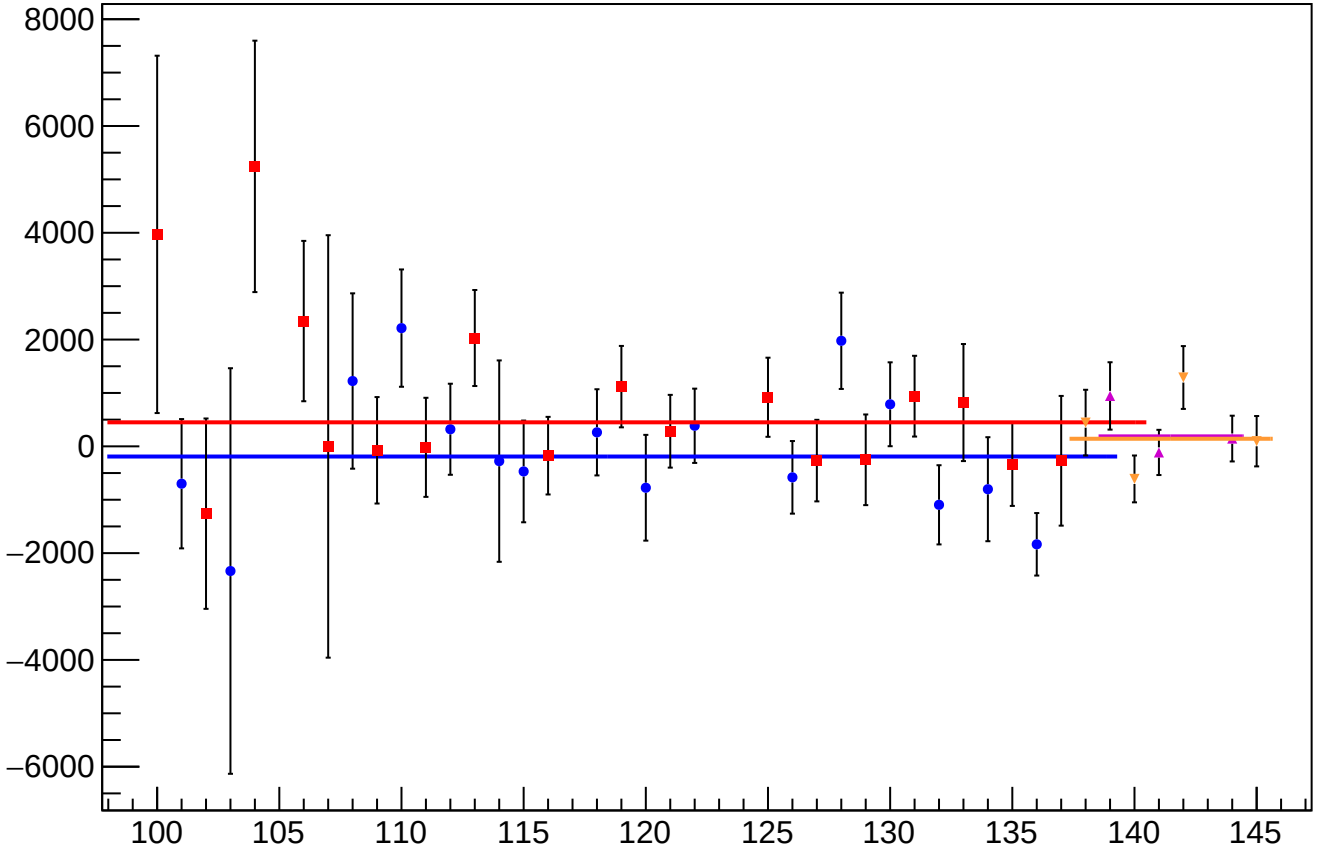
Right: 1244.518+/-0.233 $\chi^2$/NDF: 736313.8/33

In: 1197.568+/-0.272 $\chi^2$/NDF:317078.5/18

Out: 1223.341+/-0.274 $\chi^2$/NDF:483687.3/21

All: 1210.340+/-0.193 $\chi^2$/NDF: 805228.6/40

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: 141.979+/-256.312 $\chi^2$/NDF:7.0/3

Right Out: 449.847+/-223.203 $\chi^2$/NDF: 16.8/17

Left In: 186.782+/-271.762 $\chi^2$/NDF:2.0/2

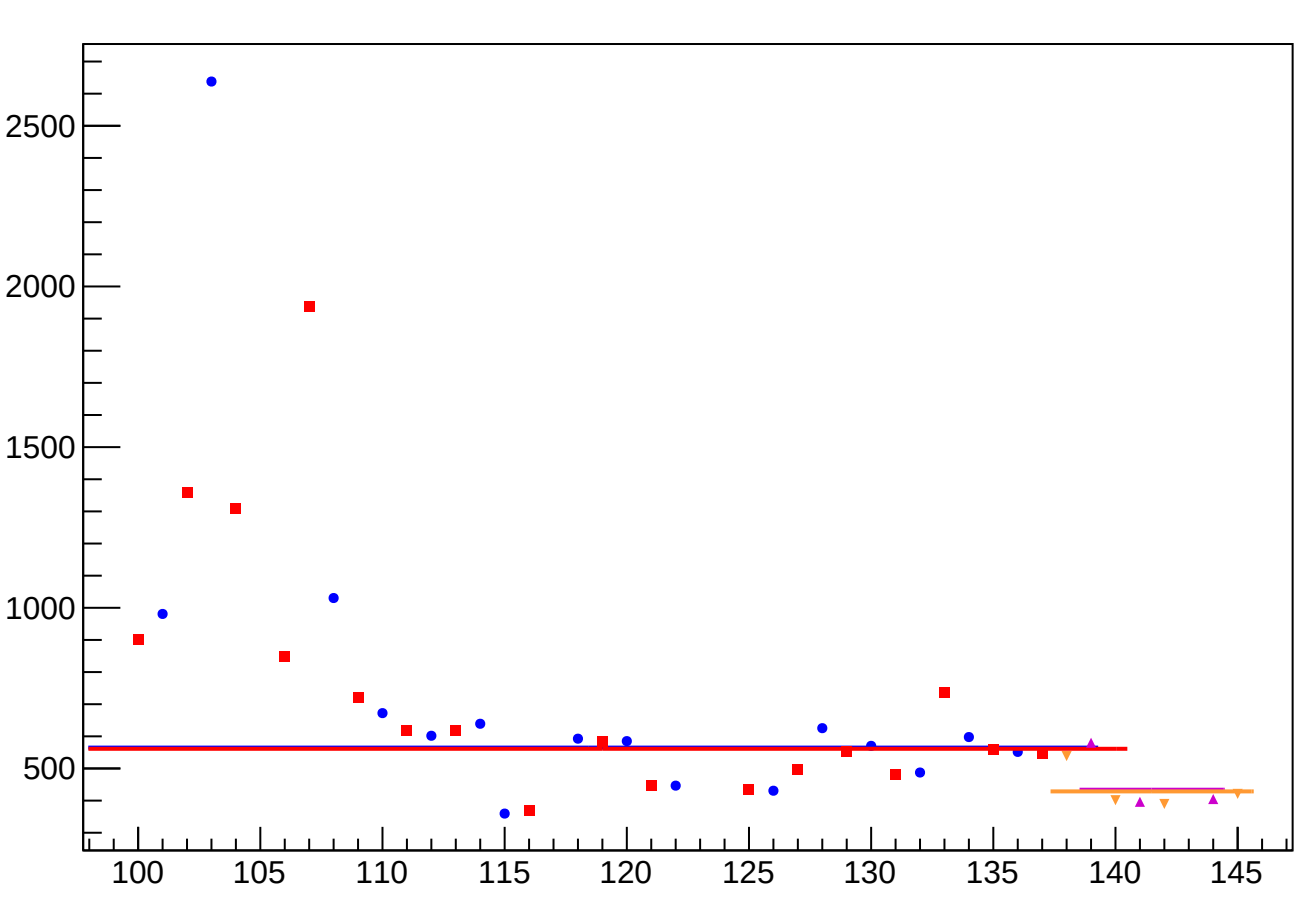
Left: 163.071+/-186.463 $\chi^2$/NDF: 9.0/6

Right: 129.127+/-157.710 $\chi^2$/NDF: 46.2/33

In: -38.872+/-172.330 $\chi^2$/NDF:28.4/18

Out: 317.070+/-168.325 $\chi^2$/NDF:24.6/21

All: 143.283+/-120.415 $\chi^2$/NDF: 55.2/40




Right In: 564.959+/-0.158 $\chi^2$/NDF: 1284478.9/15

Left Out: 428.650+/-0.181 $\chi^2$/NDF:81028.0/3

Right Out: 561.243+/-0.158 $\chi^2$/NDF: 1352239.3/17

Left In: 433.867+/-0.192 $\chi^2$/NDF:132256.4/2

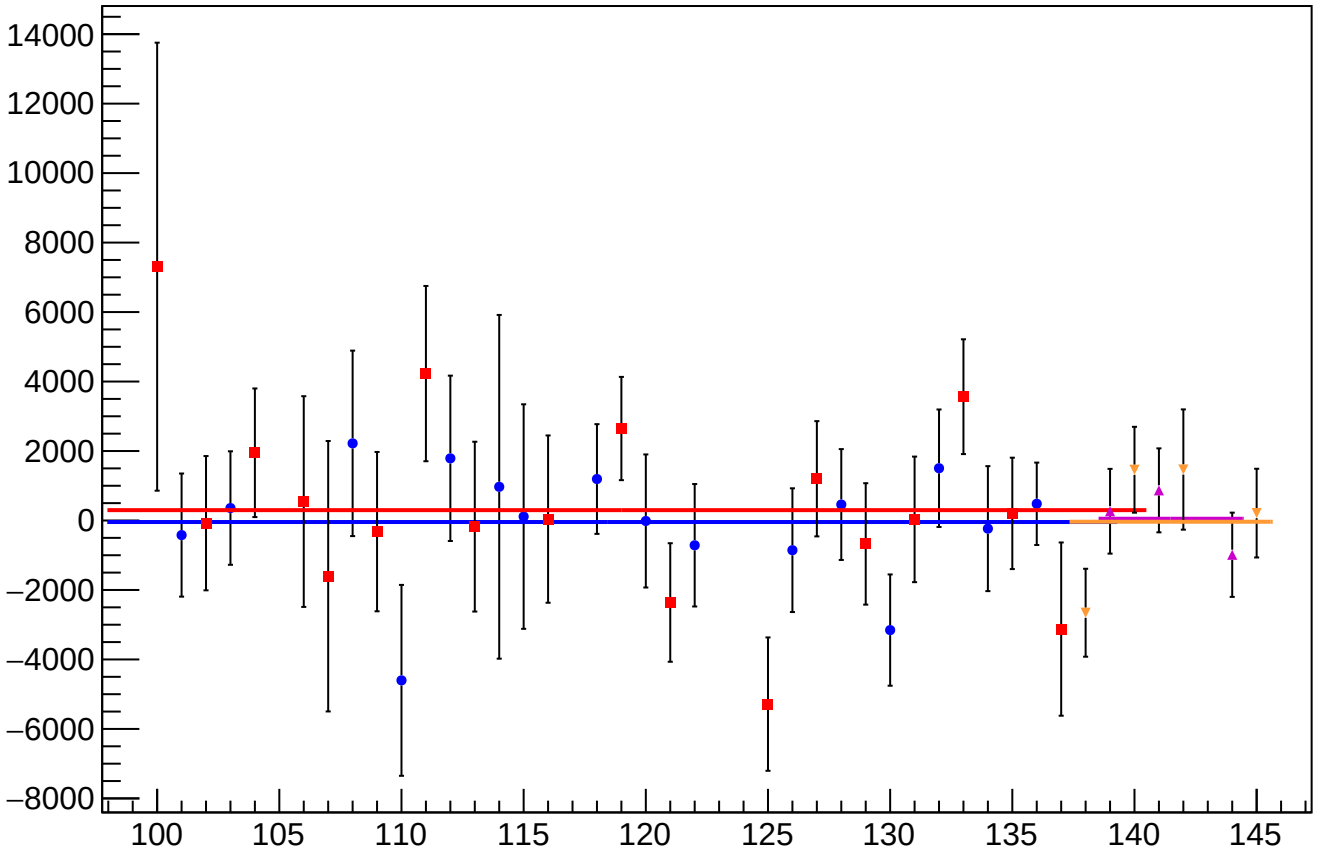
Left: 431.106+/-0.132 $\chi^2$/NDF: 213674.5/6

Right: 563.104+/-0.112 $\chi^2$/NDF: 2636995.6/33

In: 512.245+/-0.122 $\chi^2$/NDF:1694980.0/18

Out: 504.058+/-0.119 $\chi^2$/NDF:1737661.2/21

All: 508.056+/-0.085 $\chi^2$/NDF: 3434951.3/40




Right In: -43.923+/-459.222 $\chi^2$/NDF: 10.1/15

Left Out: -35.902+/-670.227 $\chi^2$/NDF:6.5/3

Right Out: 298.207+/-475.315 $\chi^2$/NDF: 24.6/17

Left In: 50.244+/-700.687 $\chi^2$/NDF:1.2/2

Left: 5.258+/-484.333 $\chi^2$/NDF: 7.8/6

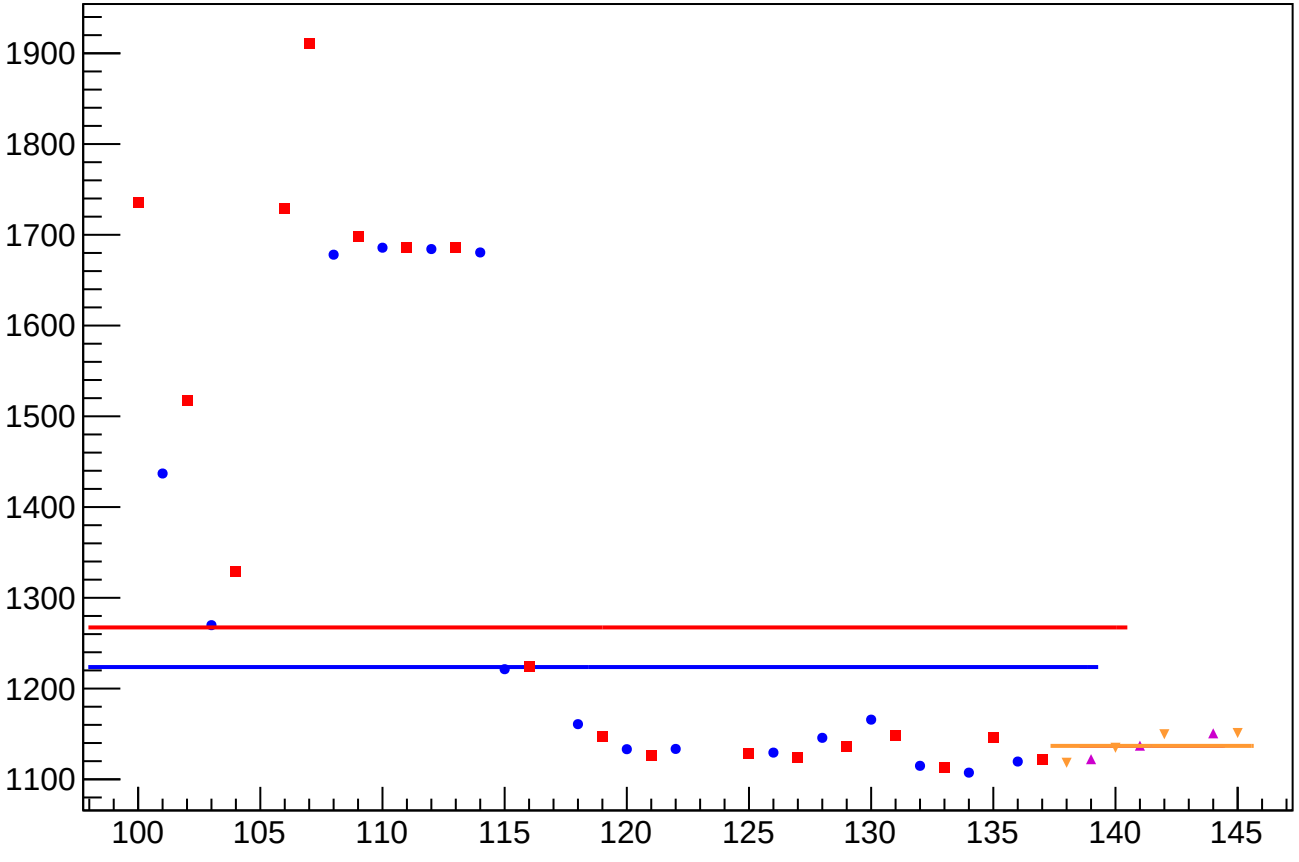
Right: 121.252+/-330.262 $\chi^2$/NDF: 35.0/33

In: -15.628+/-384.083 $\chi^2$/NDF:11.3/18

Out: 186.402+/-387.713 $\chi^2$/NDF:31.3/21

All: 84.437+/-272.862 $\chi^2$/NDF: 42.8/40

# cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1136.835+/-0.474 $\chi^2$/NDF:793.3/3

Right Out: 1267.363+/-0.336 $\chi^2$/NDF: 439982.4/17

Left In: 1136.716+/-0.495 $\chi^2$/NDF:549.2/2

Left: 1136.778+/-0.342 $\chi^2$/NDF: 1342.6/6

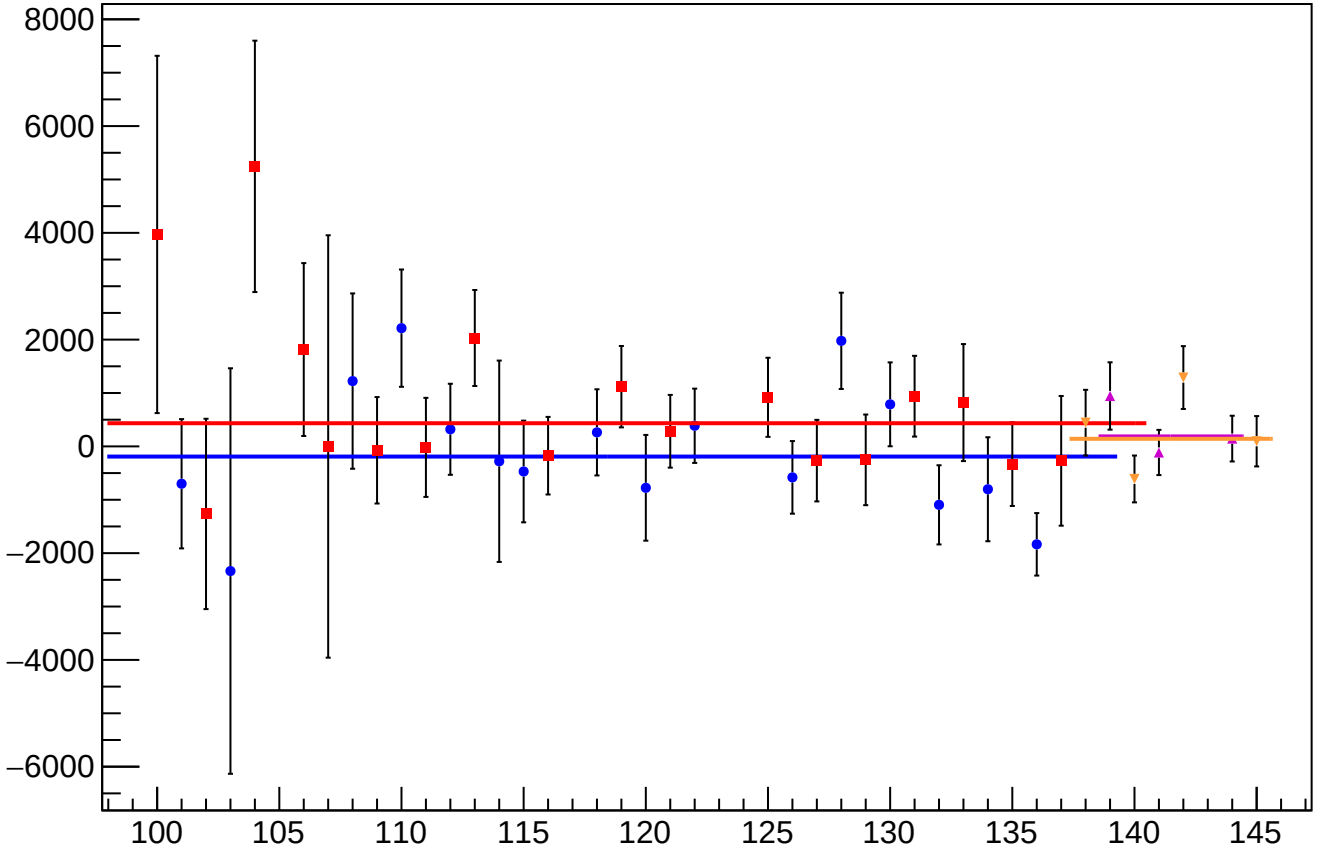
Right: 1244.783+/-0.234 $\chi^2$/NDF: 743675.6/33

In: 1197.568+/-0.272 $\chi^2$/NDF:317078.5/18

Out: 1223.683+/-0.274 $\chi^2$/NDF:491248.0/21

All: 1210.503+/-0.193 $\chi^2$/NDF: 812906.4/40

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: 141.903+/-256.312 $\chi^2$/NDF:7.0/3

Right Out: 433.877+/-223.547 $\chi^2$/NDF: 15.9/17

Left In: 186.768+/-271.763 $\chi^2$/NDF:2.0/2

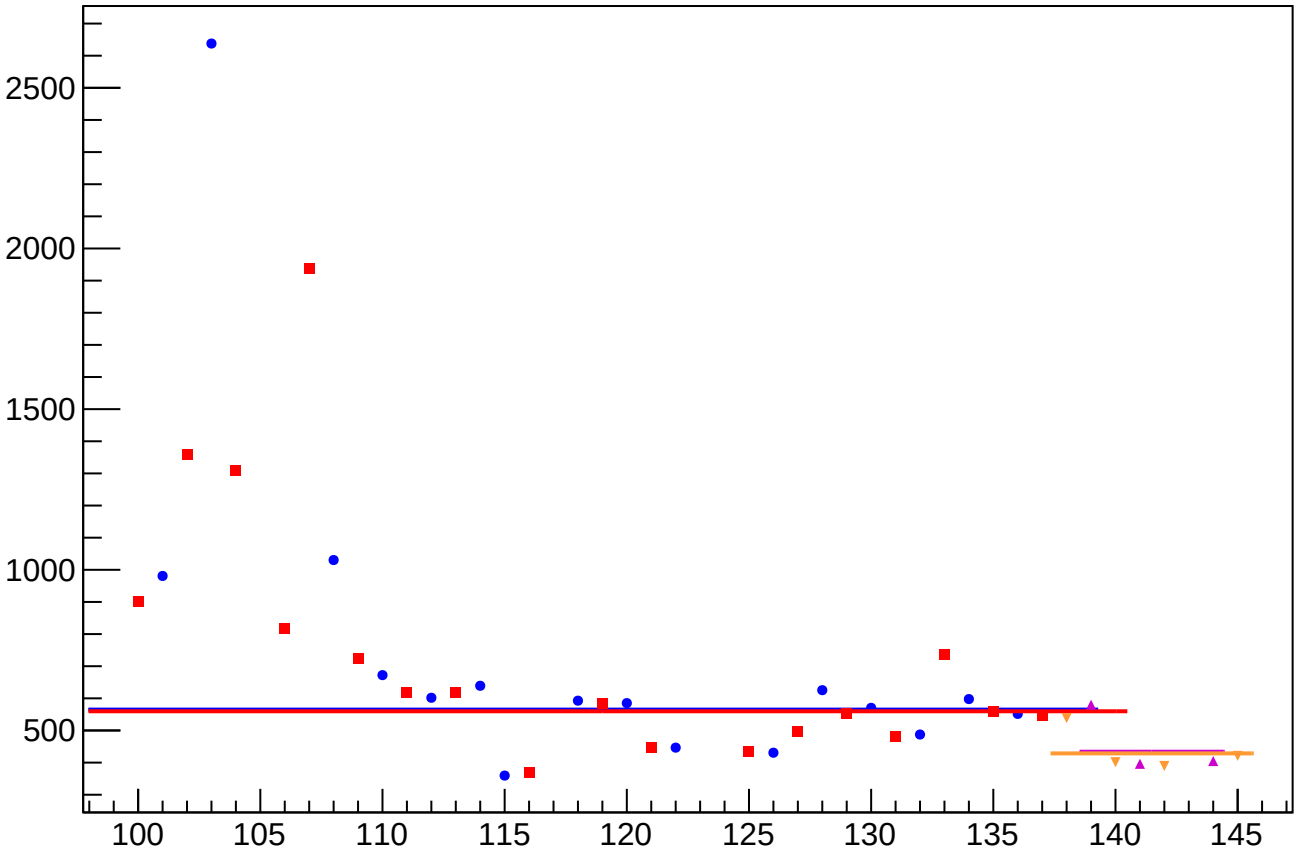
Left: 163.024+/-186.463 $\chi^2$/NDF: 9.0/6

Right: 120.665+/-157.831 $\chi^2$/NDF: 45.1/33

In: -38.885+/-172.329 $\chi^2$/NDF:28.4/18

Out: 307.734+/-168.473 $\chi^2$/NDF:23.7/21

All: 138.346+/-120.469 $\chi^2$/NDF: 54.1/40




Right In: 564.954+/-0.158 $\chi^2$/NDF: 1284455.7/15

Left Out: 428.649+/-0.181 $\chi^2$/NDF:81008.0/3

Right Out: 559.758+/-0.158 $\chi^2$/NDF: 1329357.2/17

Left In: 433.868+/-0.192 $\chi^2$/NDF:132250.8/2

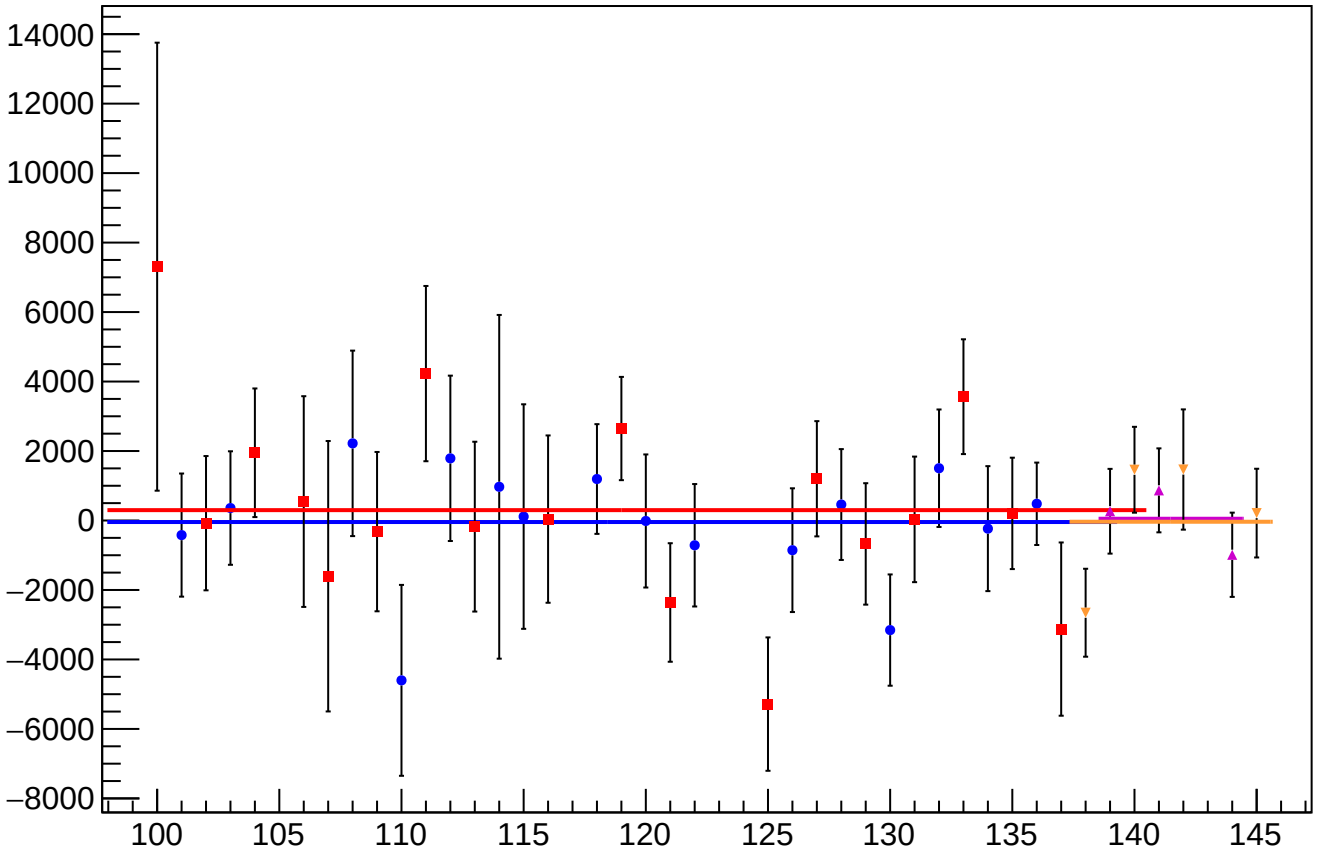
Left: 431.106+/-0.132 $\chi^2$/NDF: 213649.1/6

Right: 562.364+/-0.112 $\chi^2$/NDF: 2614354.9/33

In: 512.244+/-0.122 $\chi^2$/NDF:1694927.1/18

Out: 503.114+/-0.119 $\chi^2$/NDF:1707581.8/21

All: 507.576+/-0.085 $\chi^2$/NDF: 3405379.2/40




Right In: -43.923+/-459.222 $\chi^2$/NDF: 10.1/15

Left Out: -35.902+/-670.227 $\chi^2$/NDF:6.5/3

Right Out: 298.207+/-475.315 $\chi^2$/NDF: 24.6/17

Left In: 50.244+/-700.687 $\chi^2$/NDF:1.2/2

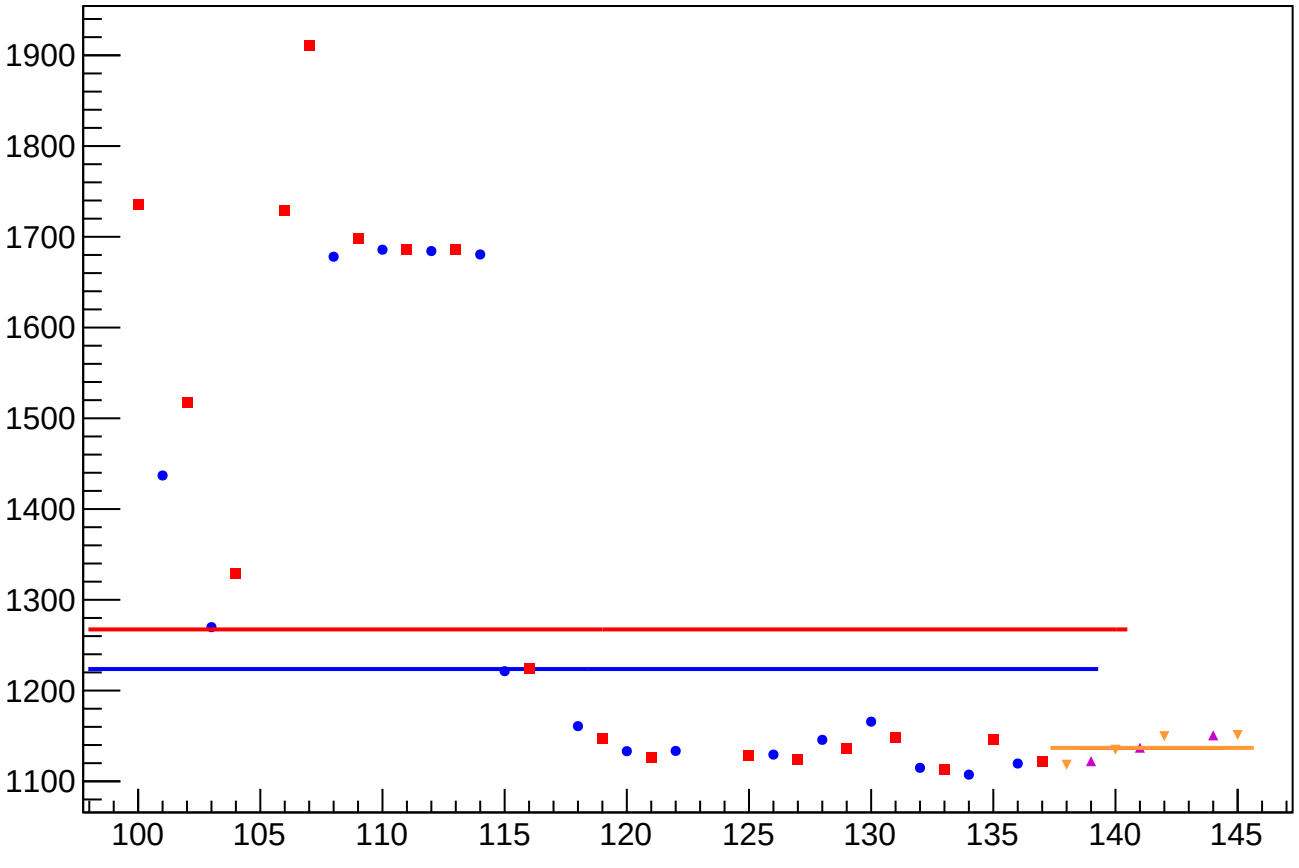
Left: 5.258+/-484.333 $\chi^2$/NDF: 7.8/6

Right: 121.252+/-330.262 $\chi^2$/NDF: 35.0/33

In: -15.628+/-384.083 $\chi^2$/NDF:11.3/18

Out: 186.402+/-387.713 $\chi^2$/NDF:31.3/21

All: 84.437+/-272.862 $\chi^2$/NDF: 42.8/40




Right In: 1223.705+/-0.325 $\chi^2$/NDF: 294966.1/15

Left Out: 1136.835+/-0.474 $\chi^2$/NDF:793.3/3

Right Out: 1267.363+/-0.336 $\chi^2$/NDF: 439982.4/17

Left In: 1136.716+/-0.495 $\chi^2$/NDF:549.2/2

Left: 1136.778+/-0.342 $\chi^2$/NDF: 1342.6/6

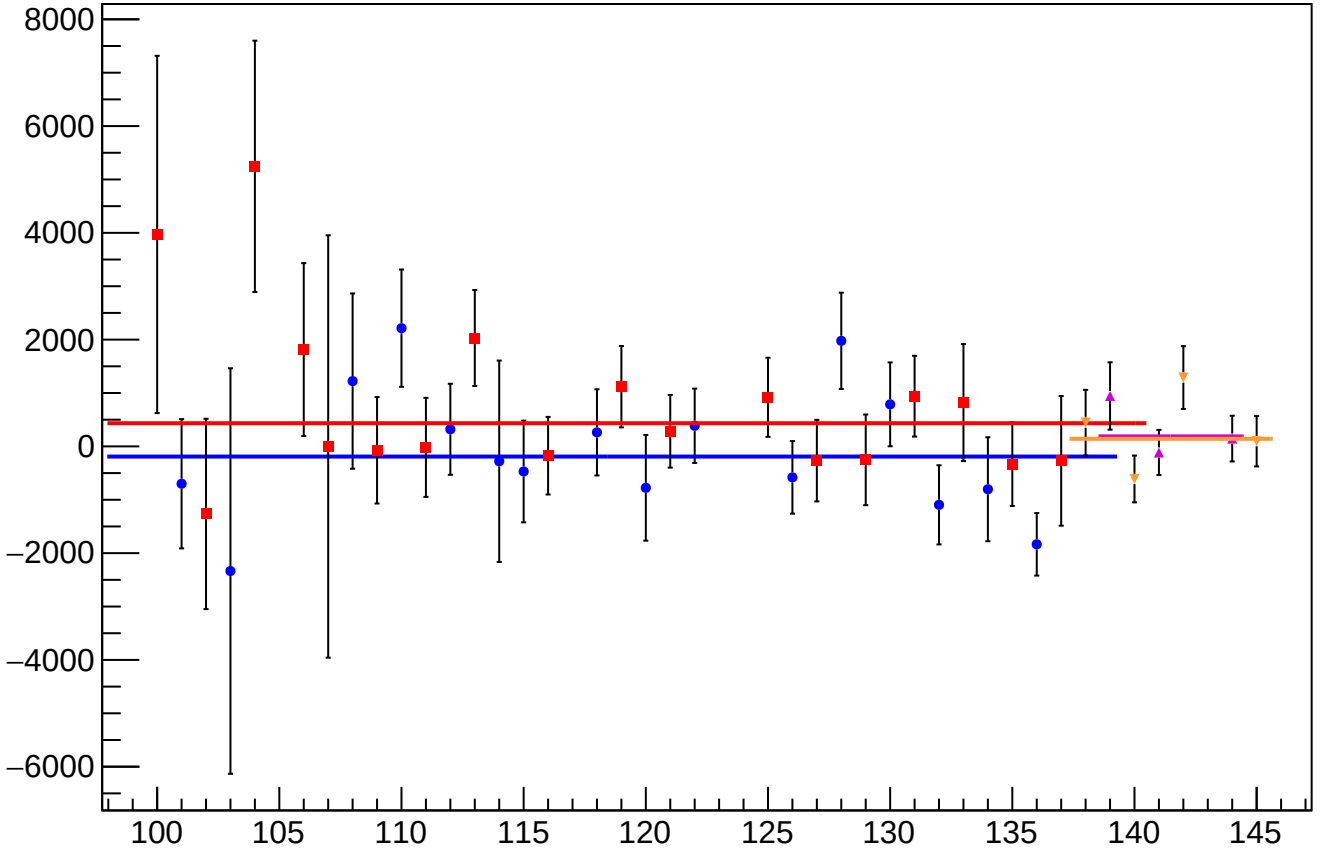
Right: 1244.783+/-0.234 $\chi^2$/NDF: 743675.6/33

In: 1197.568+/-0.272 $\chi^2$/NDF:317078.5/18

Out: 1223.683+/-0.274 $\chi^2$/NDF:491248.0/21

All: 1210.503+/-0.193 $\chi^2$/NDF: 812906.4/40

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: 141.903+/-256.312 $\chi^2$/NDF:7.0/3

Right Out: 433.877+/-223.547 $\chi^2$/NDF: 15.9/17

Left In: 186.768+/-271.763 $\chi^2$/NDF:2.0/2

Left: 163.024+/-186.463 $\chi^2$/NDF: 9.0/6

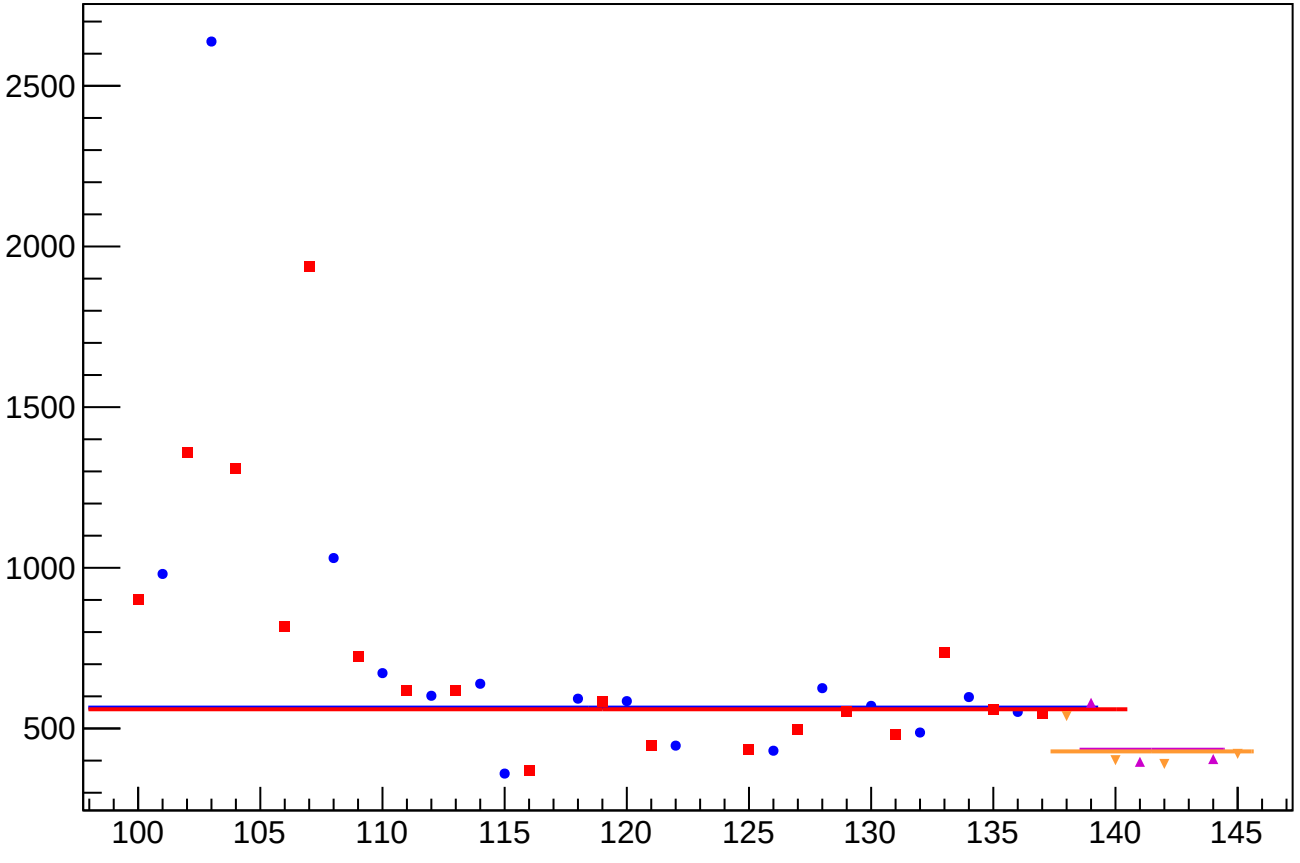
Right: 120.665+/-157.831 $\chi^2$/NDF: 45.1/33

In: -38.885+/-172.329 $\chi^2$/NDF:28.4/18

Out: 307.734+/-168.473 $\chi^2$/NDF:23.7/21

All: 138.346+/-120.469 $\chi^2$/NDF: 54.1/40

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: 428.649+/-0.181 $\chi^2$/NDF:81008.0/3

Right Out: 559.758+/-0.158 $\chi^2$/NDF: 1329357.2/17

Left In: 433.868+/-0.192 $\chi^2$/NDF:132250.8/2

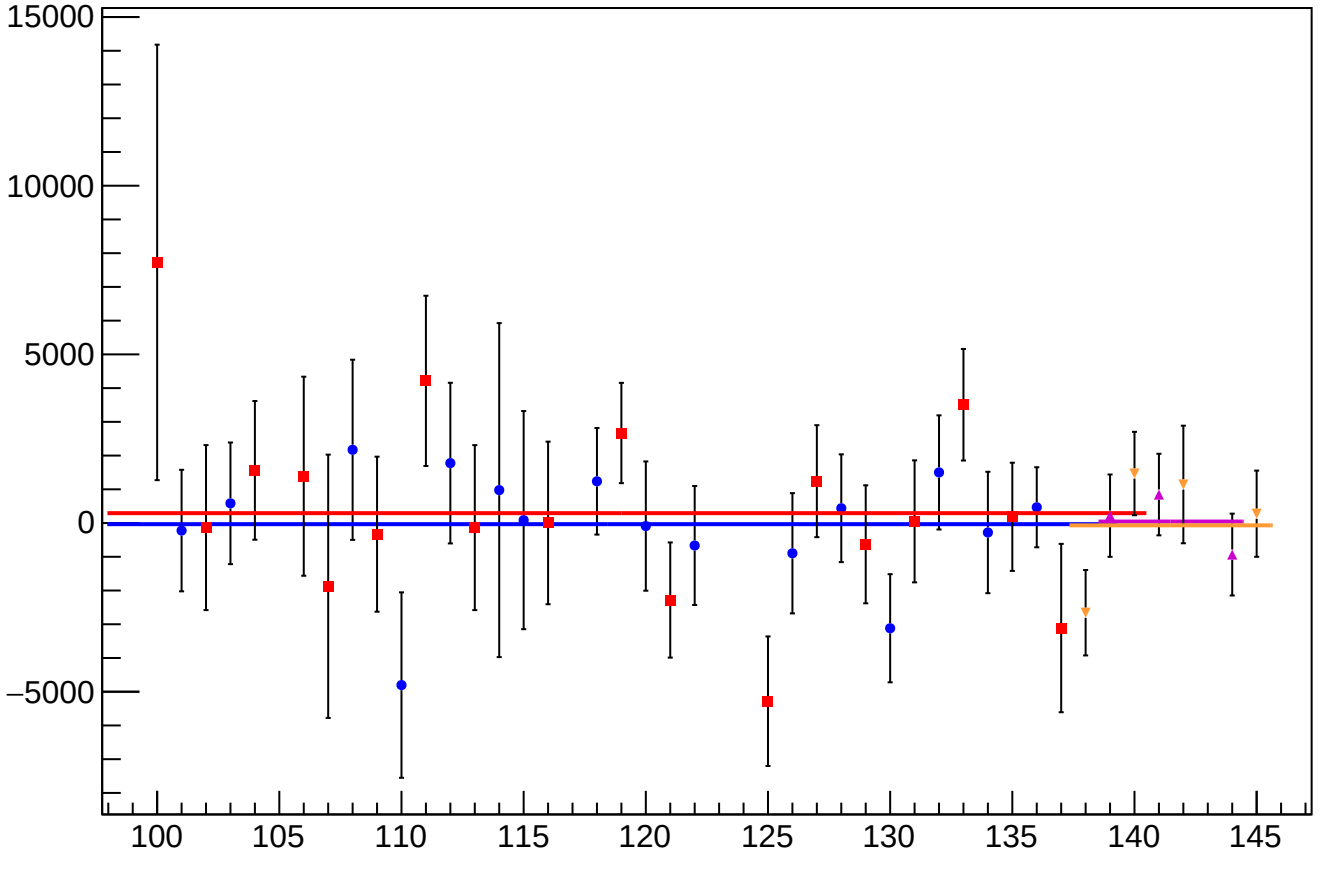
Left: 431.106+/-0.132 $\chi^2$/NDF: 213649.1/6

Right: 562.364+/-0.112 $\chi^2$/NDF: 2614354.9/33

In: 512.244+/-0.122 $\chi^2$/NDF:1694927.1/18

Out: 503.114+/-0.119 $\chi^2$/NDF:1707581.8/21

All: 507.576+/-0.085 $\chi^2$/NDF: 3405379.2/40




Right In: -33.062+/-463.216 $\chi^2$/NDF: 10.3/15

Left Out: -67.894+/-671.219 $\chi^2$/NDF:6.3/3

Right Out: 293.384+/-483.838 $\chi^2$/NDF: 24.2/17

Left In: 44.084+/-701.003 $\chi^2$/NDF:1.1/2

Left: -14.334+/-484.811 $\chi^2$/NDF: 7.4/6

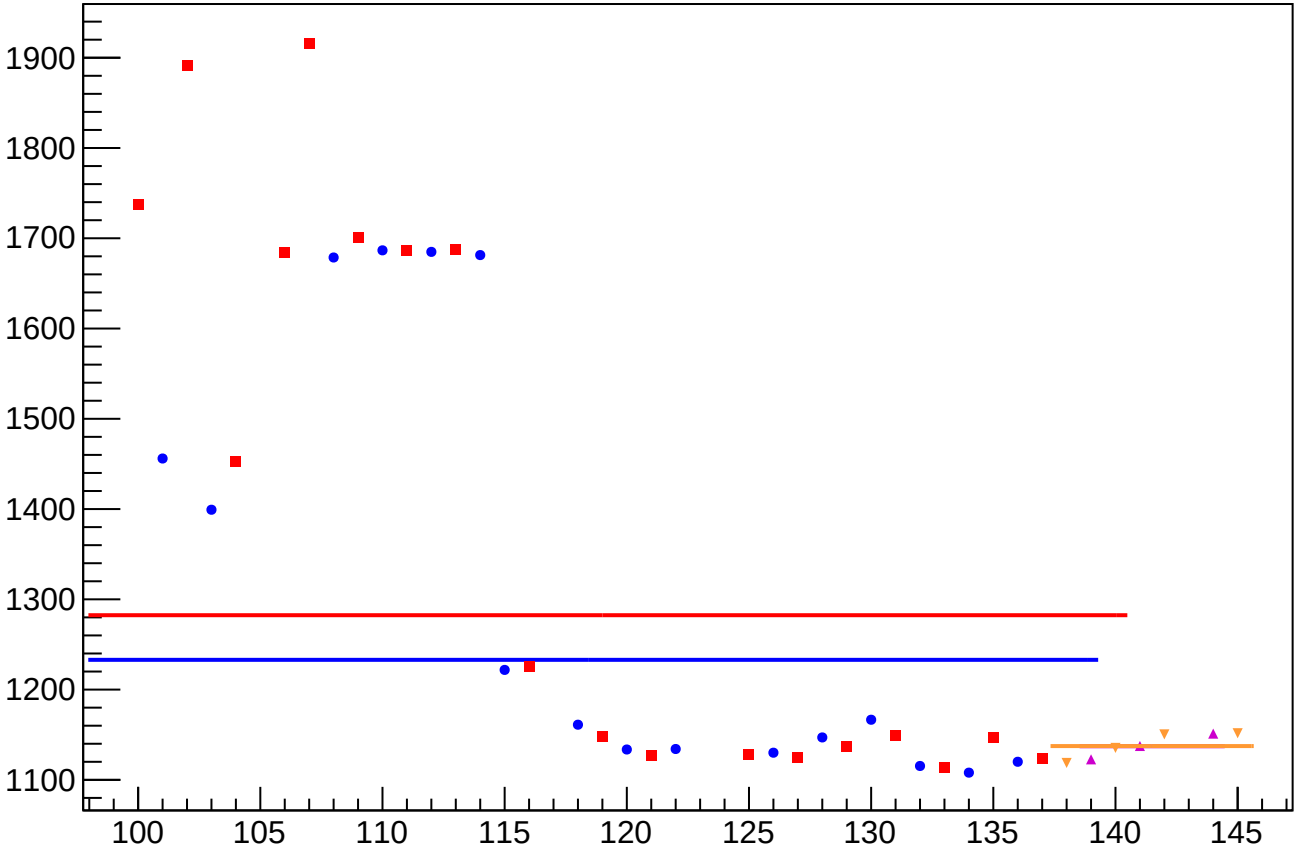
Right: 123.056+/-334.596 $\chi^2$/NDF: 34.7/33

In: -9.615+/-386.464 $\chi^2$/NDF:11.4/18

Out: 169.852+/-392.496 $\chi^2$/NDF:30.7/21

All: 78.729+/-275.379 $\chi^2$/NDF: 42.2/40

# dit_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1232.965+/-0.328 $\chi^2$/NDF: 315470.6/15

Left Out: 1137.421+/-0.475 $\chi^2$/NDF:798.3/3

Right Out: 1282.407+/-0.342 $\chi^2$/NDF: 543403.8/17

Left In: 1137.228+/-0.496 $\chi^2$/NDF:548.5/2

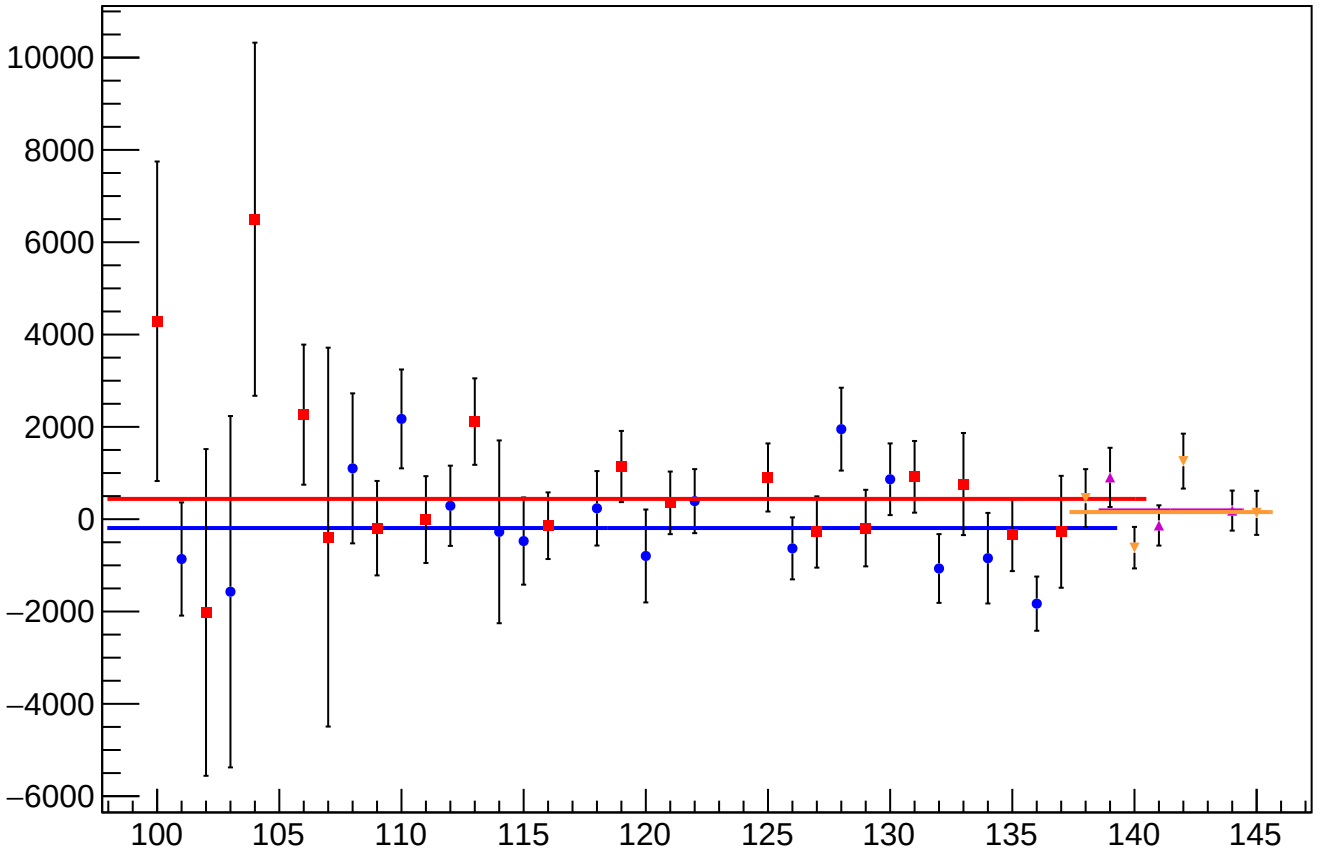
Left: 1137.328+/-0.343 $\chi^2$/NDF: 1346.9/6

Right: 1256.610+/-0.237 $\chi^2$/NDF: 869771.1/33

In: 1203.867+/-0.273 $\chi^2$/NDF:341985.1/18

Out: 1232.831+/-0.278 $\chi^2$/NDF:605610.0/21

All: 1218.125+/-0.195 $\chi^2$/NDF: 953125.1/40




Right In: -191.528+/-222.764 $\chi^2$/NDF: 25.3/15

Left Out: 154.324+/-260.870 $\chi^2$/NDF:6.6/3

Right Out: 439.610+/-226.600 $\chi^2$/NDF: 14.6/17

Left In: 190.894+/-277.340 $\chi^2$/NDF:1.8/2

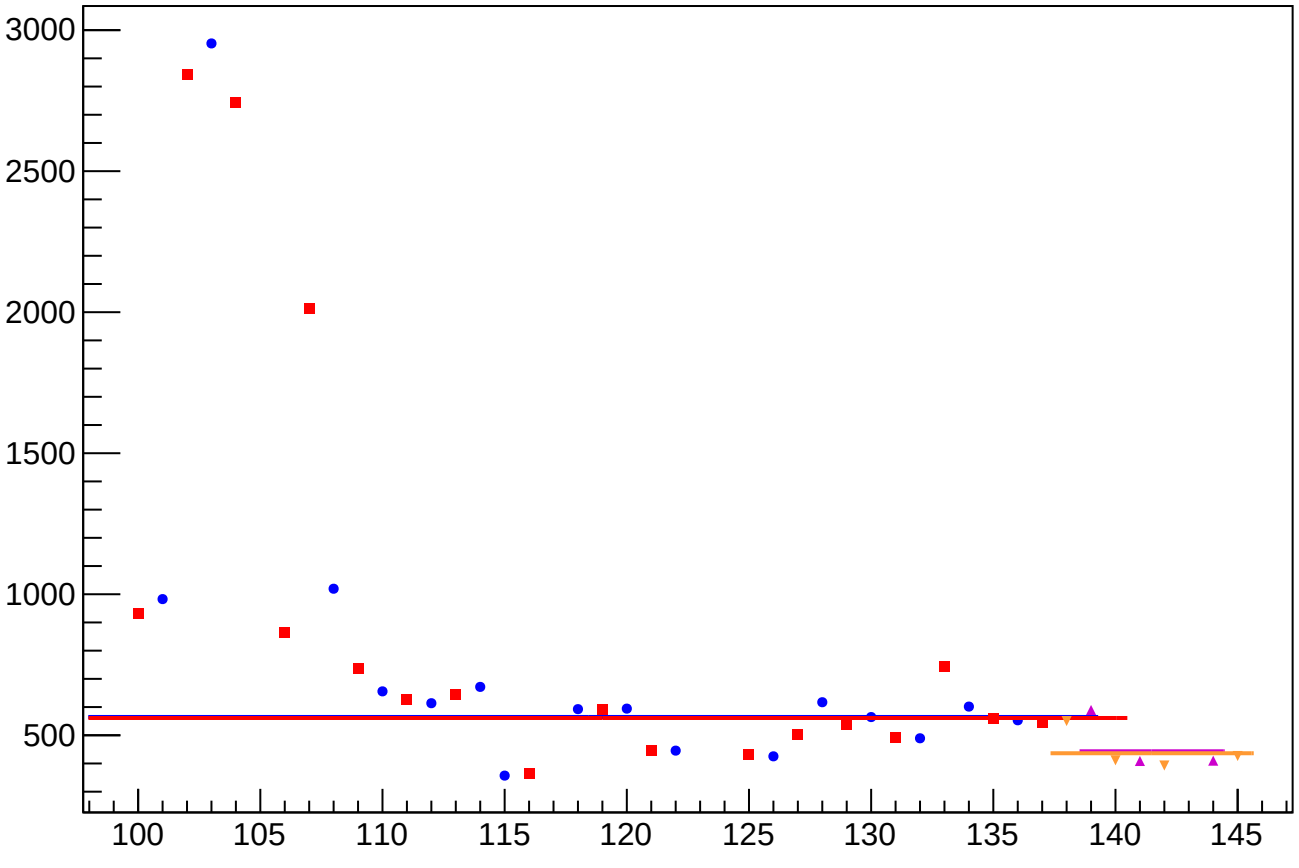
Left: 171.491+/-190.019 $\chi^2$/NDF: 8.4/6

Right: 118.653+/-158.857 $\chi^2$/NDF: 43.9/33

In: -41.559+/-173.676 $\chi^2$/NDF:28.2/18

Out: 316.924+/-171.073 $\chi^2$/NDF:21.9/21

All: 140.390+/-121.877 $\chi^2$/NDF: 52.3/40




Right In: 564.871+/-0.158 $\chi^2$/NDF: 1480375.5/15

Left Out: 436.256+/-0.184 $\chi^2$/NDF:83819.3/3

Right Out: 561.273+/-0.160 $\chi^2$/NDF: 2273371.7/17

Left In: 443.181+/-0.196 $\chi^2$/NDF:128347.3/2

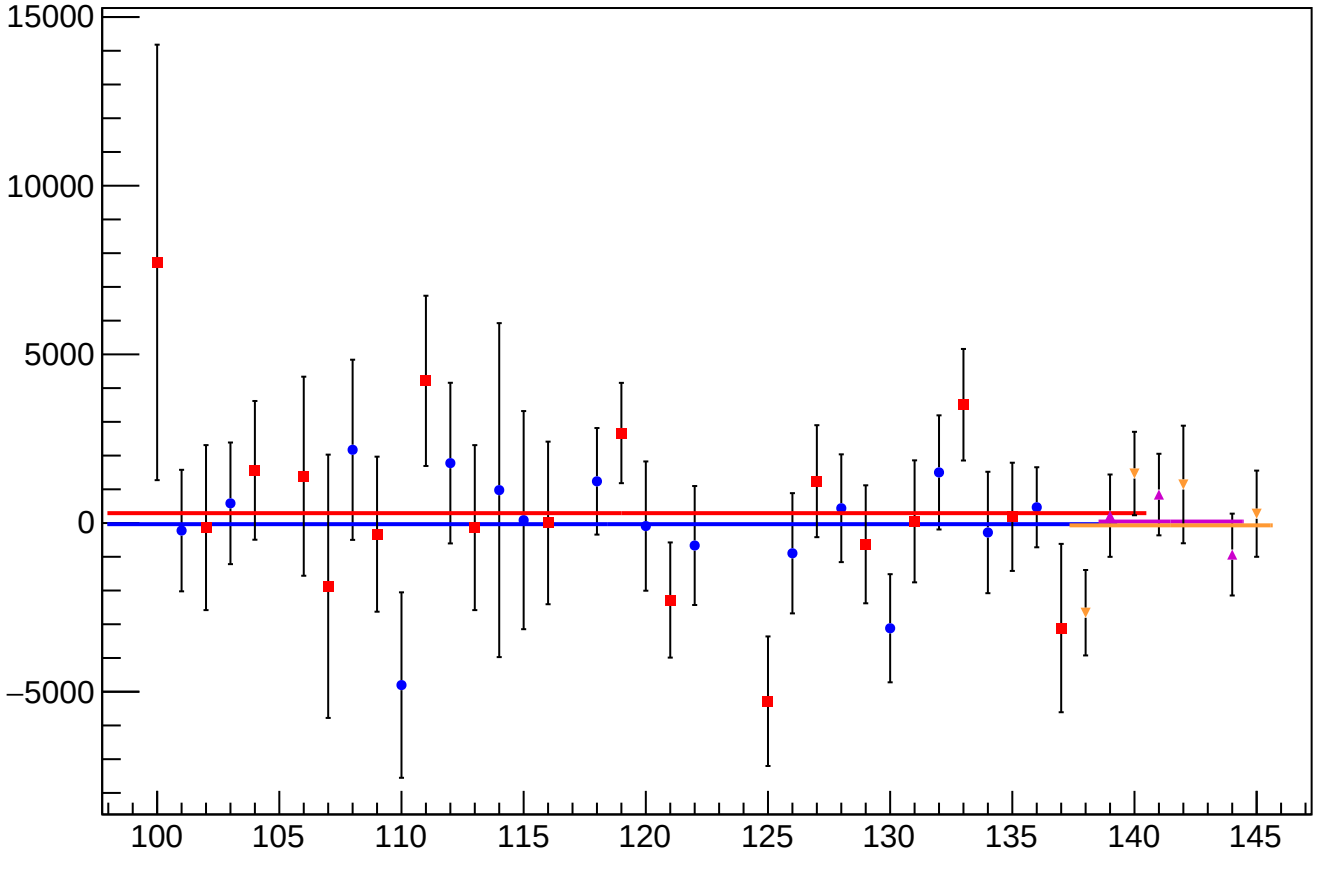
Left: 439.506+/-0.134 $\chi^2$/NDF: 212828.2/6

Right: 563.103+/-0.112 $\chi^2$/NDF: 3754003.6/33

In: 517.150+/-0.123 $\chi^2$/NDF:1842772.6/18

Out: 507.510+/-0.121 $\chi^2$/NDF:2618988.2/21

All: 512.257+/-0.086 $\chi^2$/NDF: 4464887.9/40




Right In: -33.061+/-463.216 $\chi^2$/NDF: 10.3/15

Left Out: -67.894+/-671.219 $\chi^2$/NDF:6.3/3

Right Out: 293.384+/-483.838 $\chi^2$/NDF: 24.2/17

Left In: 44.085+/-701.003 $\chi^2$/NDF:1.1/2

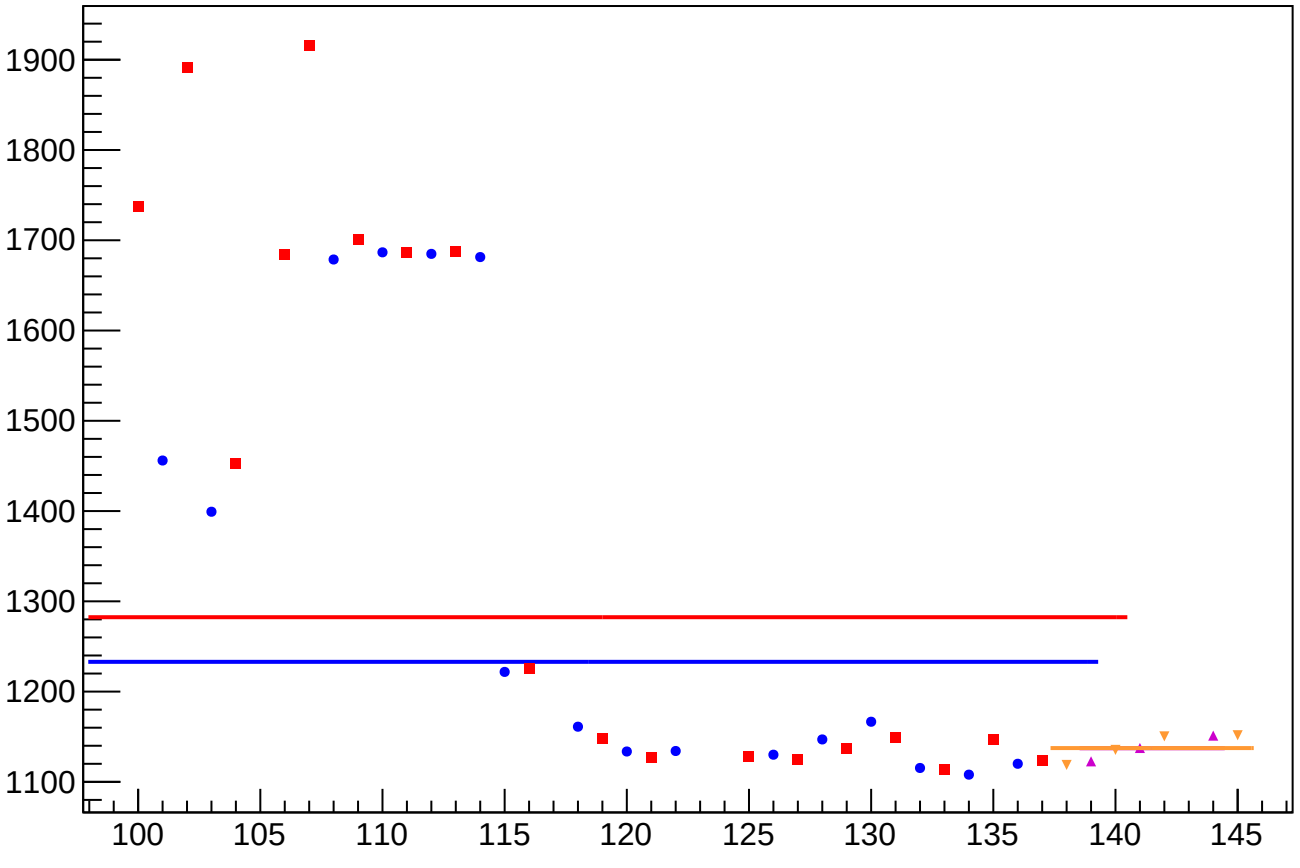
Left: -14.334+/-484.811 $\chi^2$/NDF: 7.4/6

Right: 123.057+/-334.596 $\chi^2$/NDF: 34.7/33

In: -9.614+/-386.464 $\chi^2$/NDF:11.4/18

Out: 169.851+/-392.496 $\chi^2$/NDF:30.7/21

All: 78.729+/-275.379 $\chi^2$/NDF: 42.2/40




Right In: 1232.965+/-0.328 $\chi^2$/NDF: 315470.2/15

Left Out: 1137.421+/-0.475 $\chi^2$/NDF:798.3/3

Right Out: 1282.407+/-0.342 $\chi^2$/NDF: 543403.2/17

Left In: 1137.228+/-0.496 $\chi^2$/NDF:548.5/2

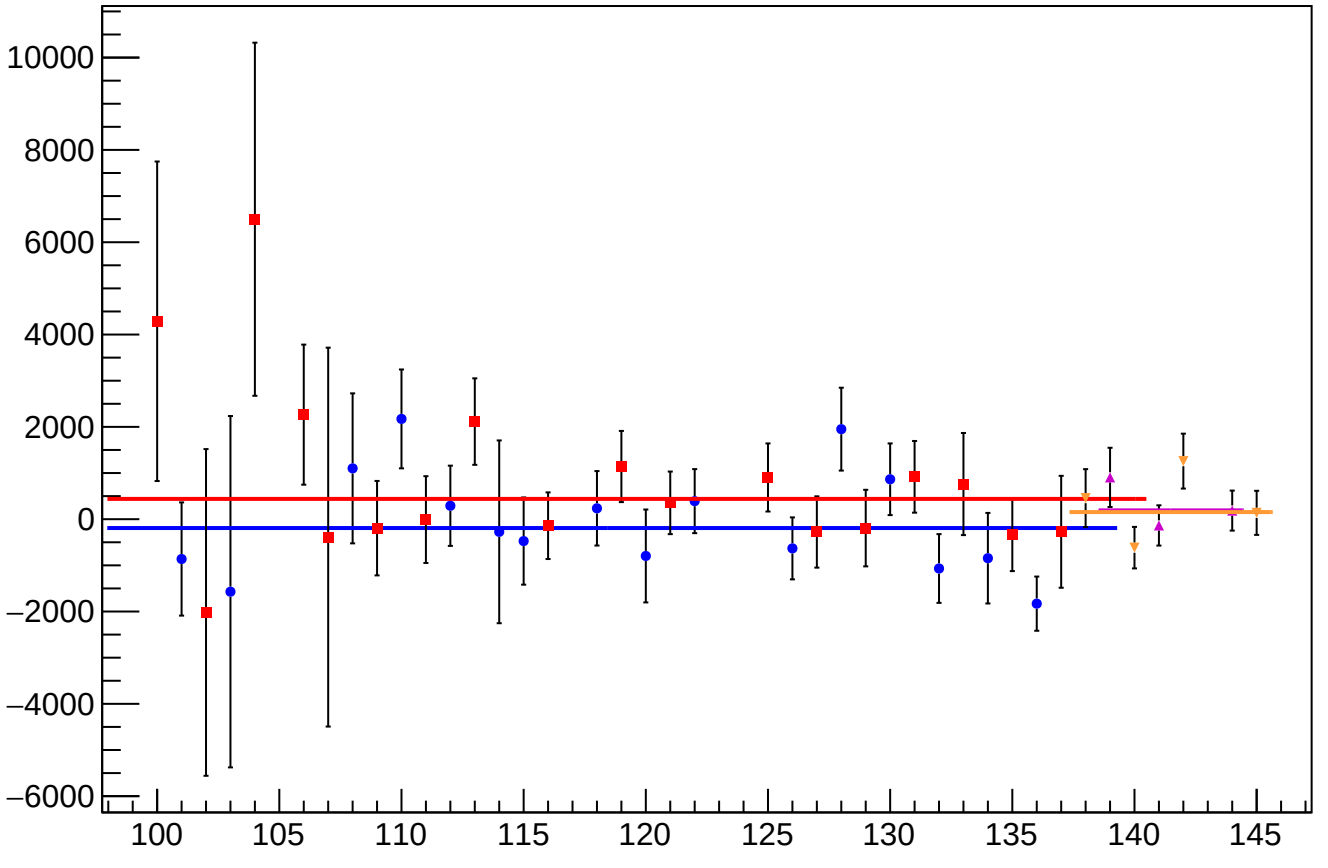
Left: 1137.328+/-0.343 $\chi^2$/NDF: 1346.9/6

Right: 1256.610+/-0.237 $\chi^2$/NDF: 869770.2/33

In: 1203.867+/-0.273 $\chi^2$/NDF:341984.7/18

Out: 1232.831+/-0.278 $\chi^2$/NDF:605609.4/21

All: 1218.125+/-0.195 $\chi^2$/NDF: 953124.1/40




Right In: -191.527+/-222.763 $\chi^2$/NDF: 25.3/15

Left Out: 154.324+/-260.869 $\chi^2$/NDF:6.6/3

Right Out: 439.611+/-226.600 $\chi^2$/NDF: 14.6/17

Left In: 190.893+/-277.339 $\chi^2$/NDF:1.8/2

Left: 171.491+/-190.018 $\chi^2$/NDF: 8.4/6

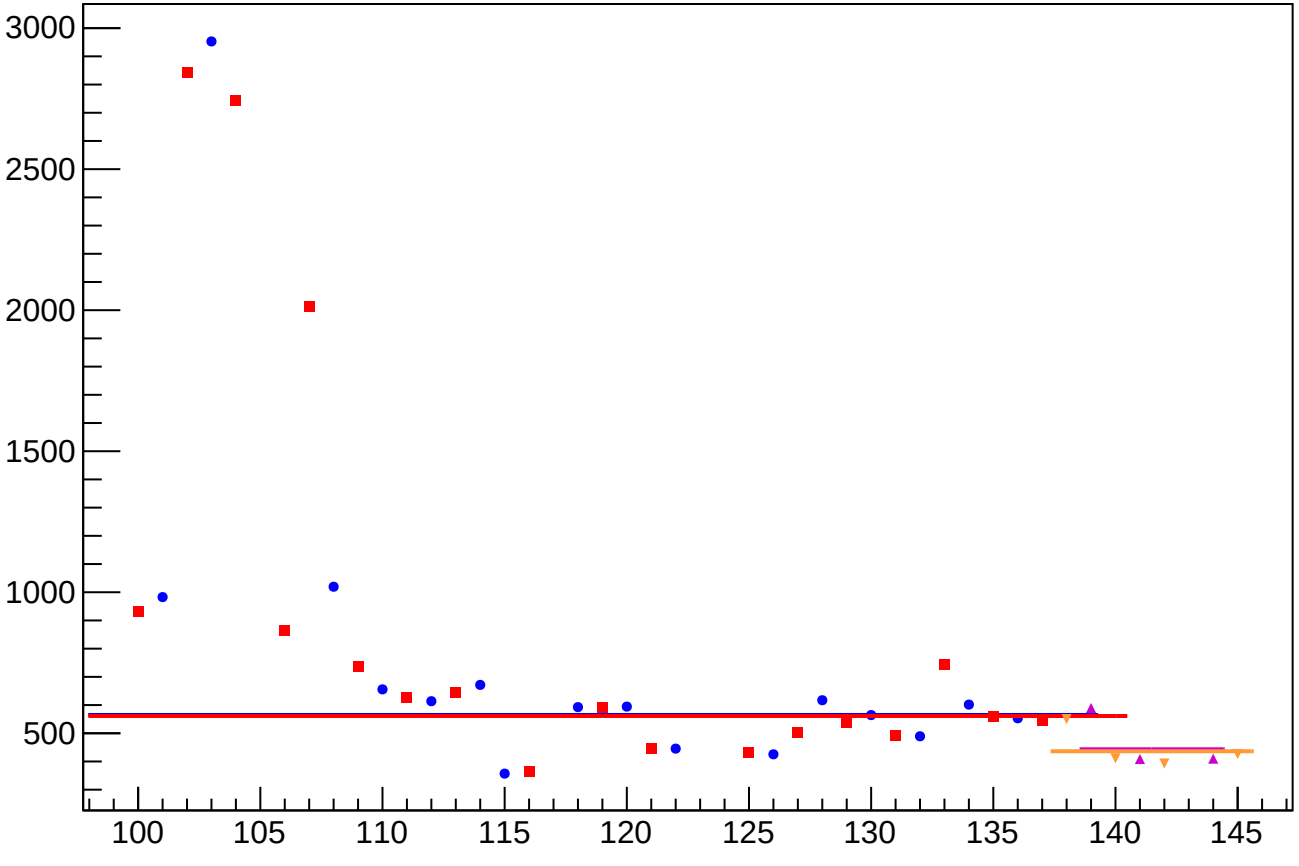
Right: 118.653+/-158.857 $\chi^2$/NDF: 43.9/33

In: -41.559+/-173.676 $\chi^2$/NDF:28.2/18

Out: 316.924+/-171.072 $\chi^2$/NDF:21.9/21

All: 140.390+/-121.877 $\chi^2$/NDF: 52.3/40

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: 436.254+/-0.184 $\chi^2$/NDF:83823.6/3

Right Out: 561.273+/-0.160 $\chi^2$/NDF: 2273372.4/17

Left In: 443.180+/-0.196 $\chi^2$/NDF:128352.1/2

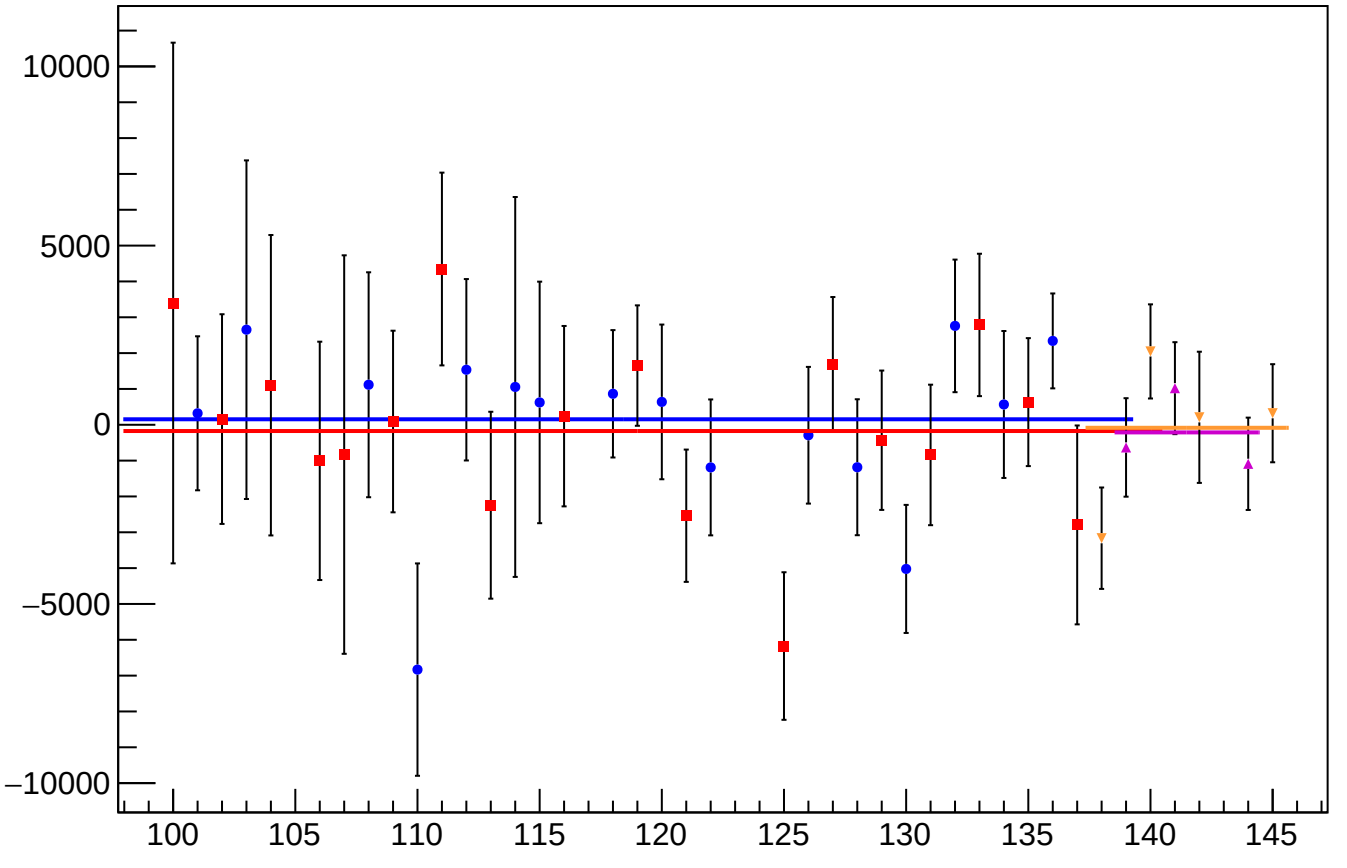
Left: 439.505+/-0.134 $\chi^2$/NDF: 212837.5/6

Right: 563.103+/-0.112 $\chi^2$/NDF: 3754001.7/33

In: 517.149+/-0.123 $\chi^2$/NDF:1842779.8/18

Out: 507.509+/-0.121 $\chi^2$/NDF:2619001.5/21

All: 512.256+/-0.086 $\chi^2$/NDF: 4464908.8/40




Right In: 153.375+/-532.096 $\chi^2$/NDF: 17.8/15

Left Out: -83.953+/-723.349 $\chi^2$/NDF:7.5/3

Right Out: -174.319+/-550.153 $\chi^2$/NDF: 19.7/17

Left In: -212.957+/-758.211 $\chi^2$/NDF:1.5/2

Left: -145.421+/-523.376 $\chi^2$/NDF: 9.0/6

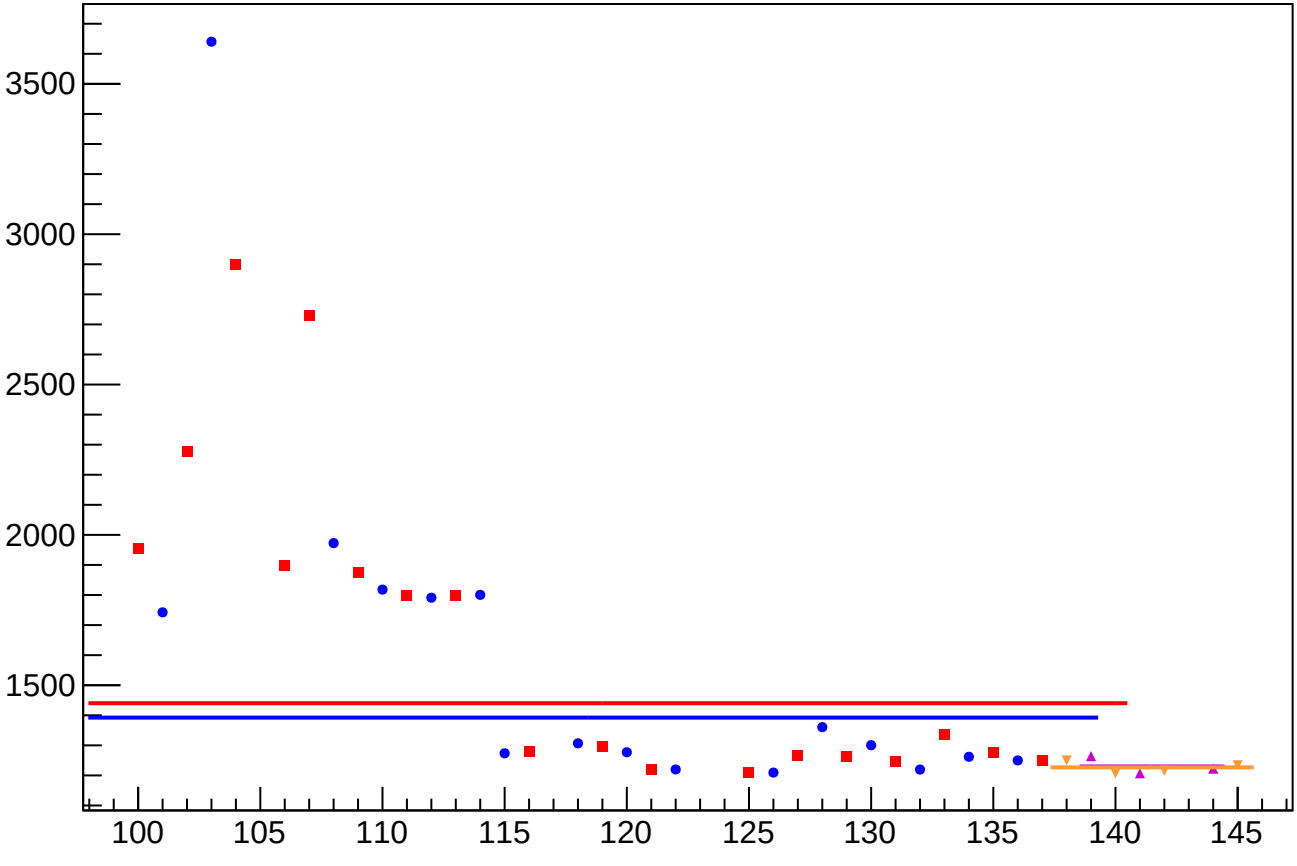
Right: -5.006+/-382.473 $\chi^2$/NDF: 37.6/33

In: 32.492+/-435.546 $\chi^2$/NDF:19.4/18

Out: -141.202+/-437.892 $\chi^2$/NDF:27.2/21

All: -53.888+/-308.804 $\chi^2$/NDF: 46.6/40

# asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1392.299+/-0.376 $\chi^2$/NDF: 779240.9/15

Left Out: 1226.801+/-0.511 $\chi^2$/NDF:1135.0/3

Right Out: 1440.222+/-0.389 $\chi^2$/NDF: 854885.8/17

Left In: 1229.836+/-0.536 $\chi^2$/NDF:1940.8/2

Left: 1228.247+/-0.370 $\chi^2$/NDF: 3092.5/6

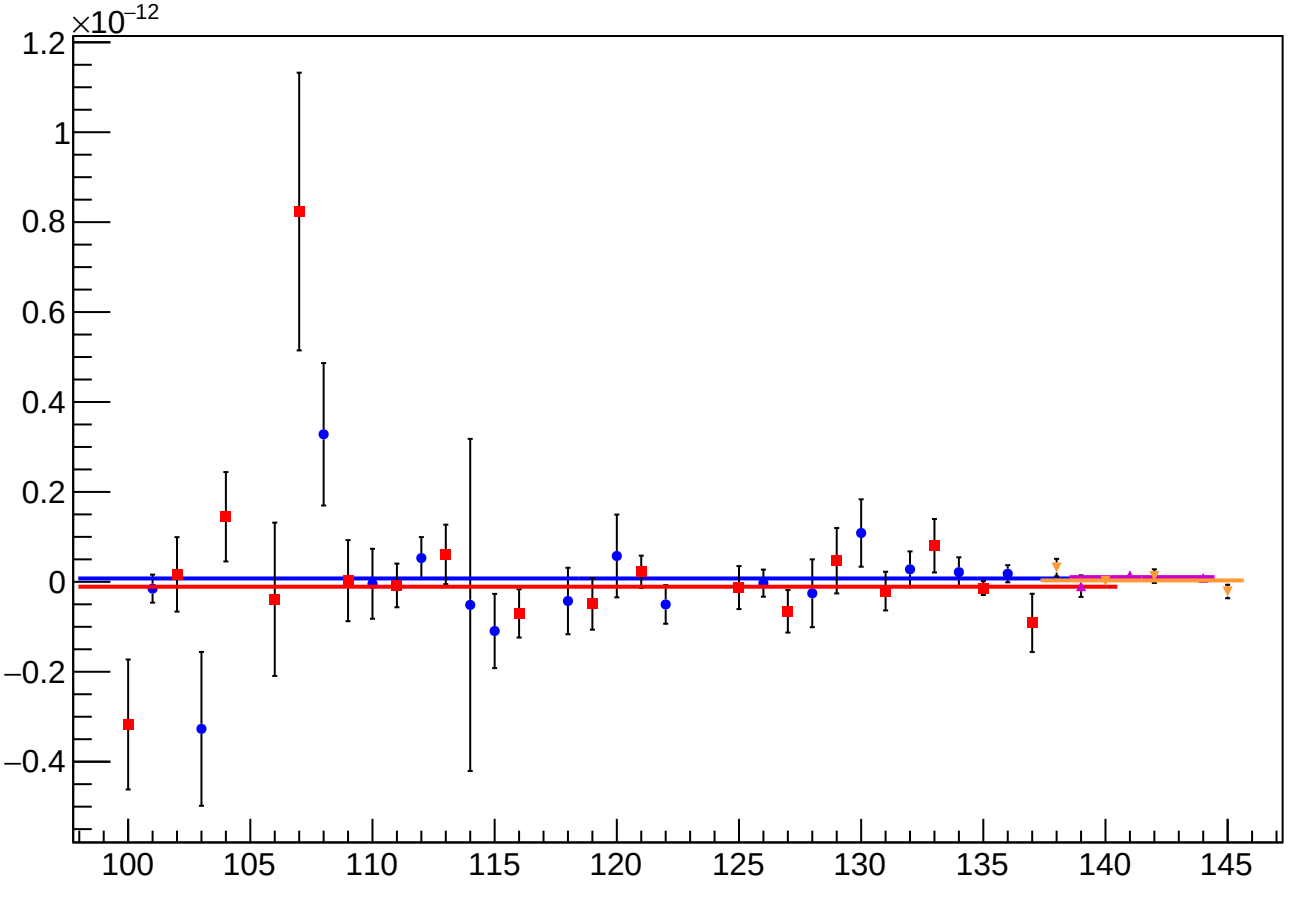
Right: 1415.461+/-0.270 $\chi^2$/NDF: 1641967.9/33

In: 1338.689+/-0.308 $\chi^2$/NDF:842706.0/18

Out: 1362.010+/-0.310 $\chi^2$/NDF:966321.4/21

All: 1350.287+/-0.218 $\chi^2$/NDF: 1811878.8/40

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:5.2/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 24.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.9/2

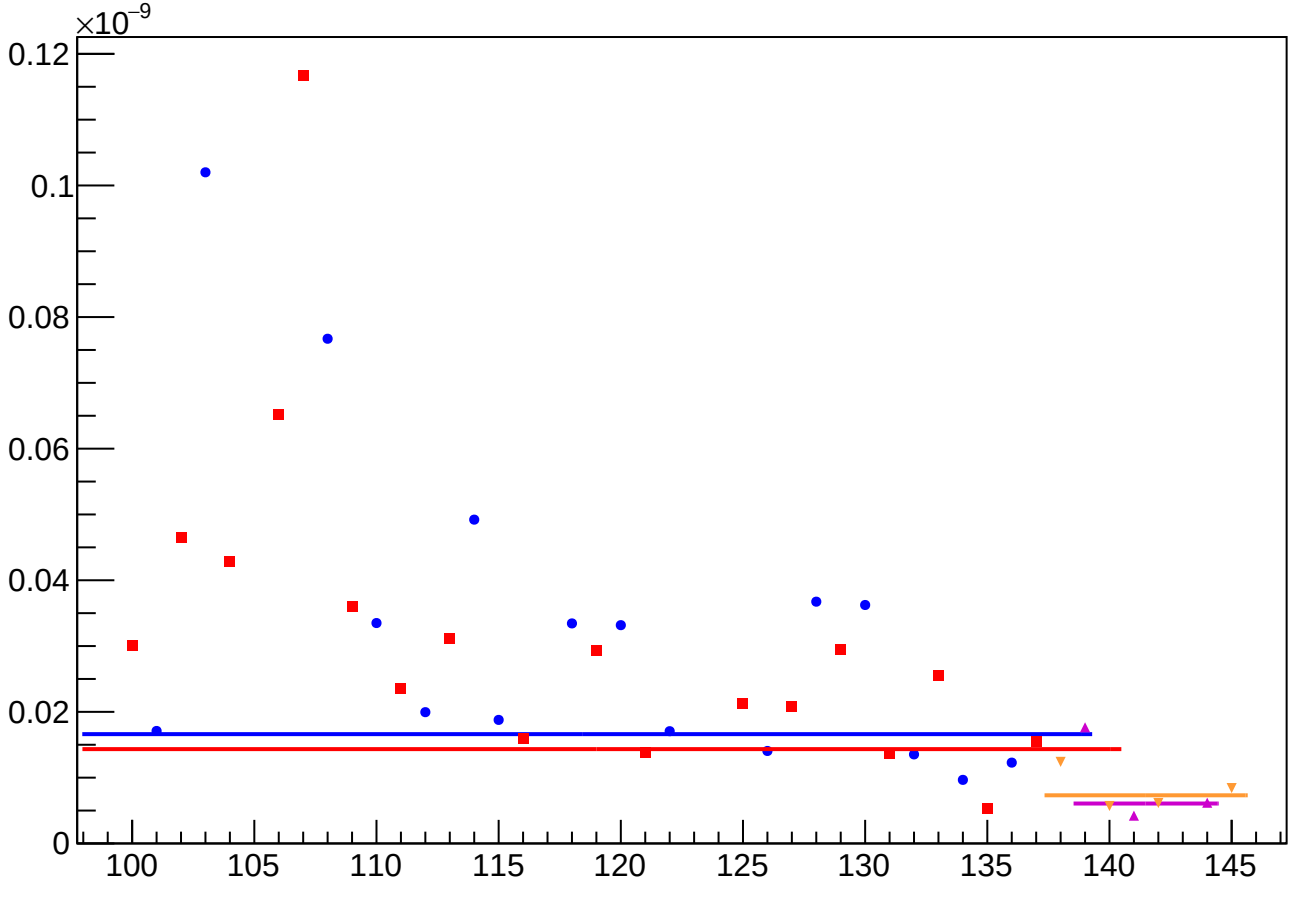
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.7/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:17.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:30.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 50.1/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1573068.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:202074.8/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2258014.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:543412.8/2

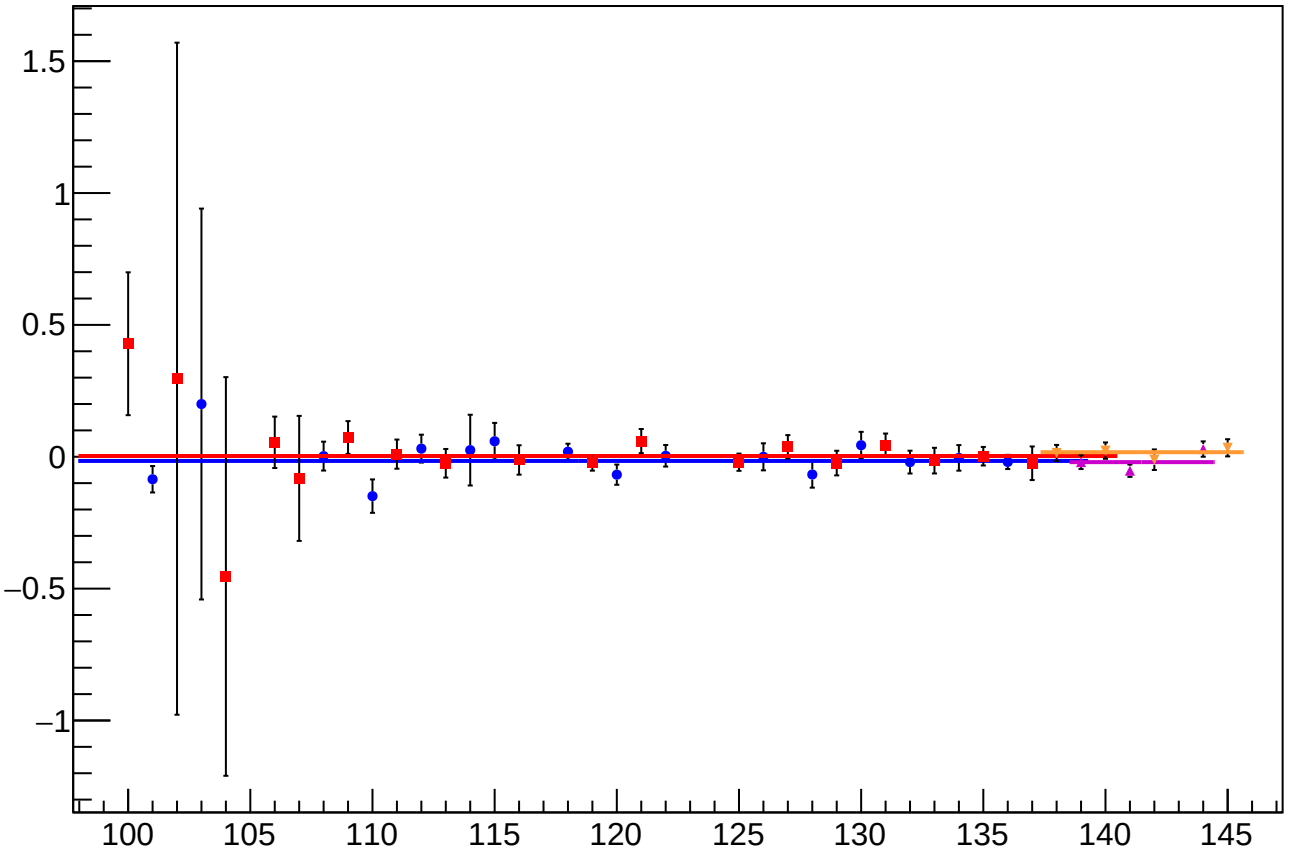
Left: 0.000+/-0.000 $\chi^2$/NDF: 777726.9/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 3876075.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:3473001.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3062495.0/21

All: 0.000+/-0.000 $\chi^2$/NDF: 6542785.2/40




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: 0.017+/-0.016 $\chi^2$/NDF:0.8/3

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.020+/-0.015 $\chi^2$/NDF:4.8/2

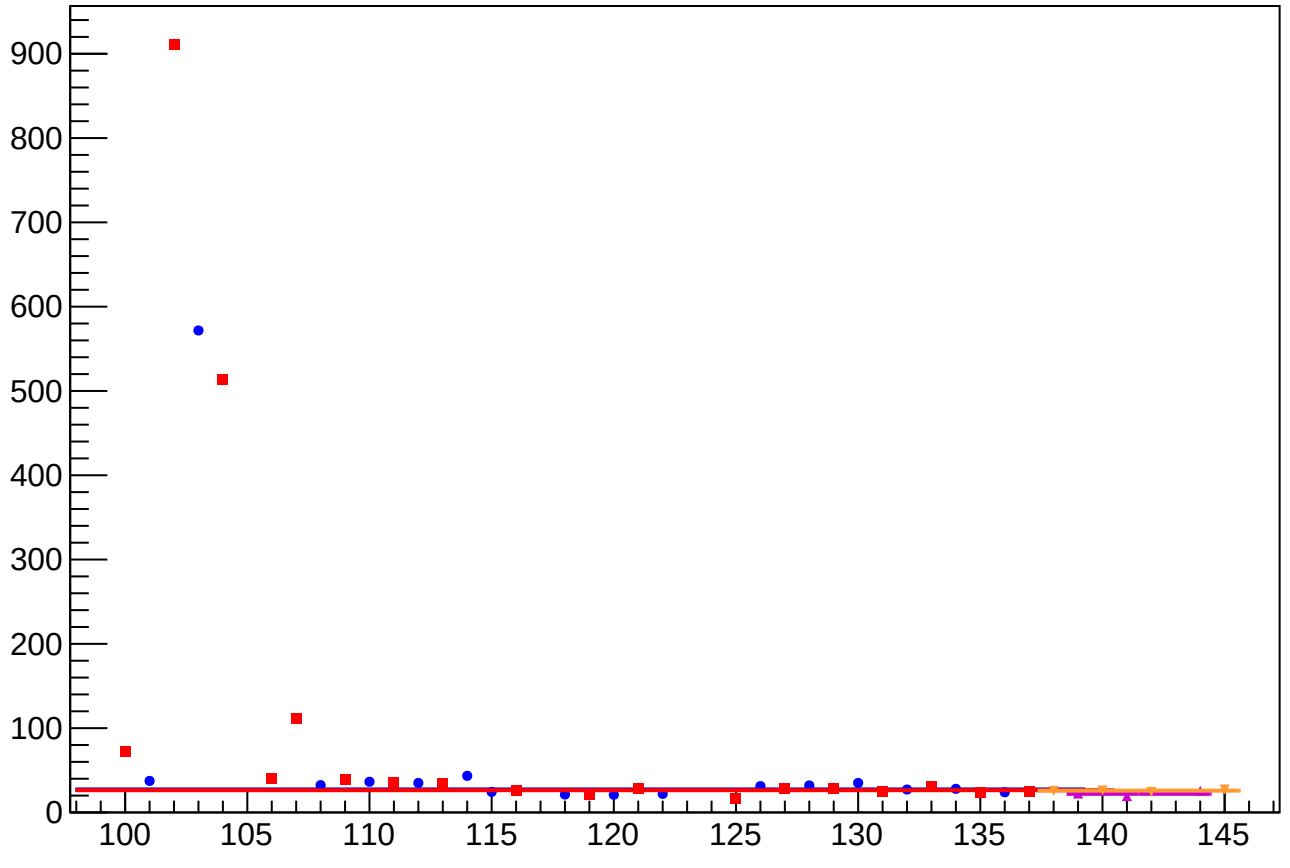
Left: -0.003+/-0.011 $\chi^2$/NDF: 8.5/6

Right: -0.007+/-0.008 $\chi^2$/NDF: 25.8/33

In: -0.017+/-0.009 $\chi^2$/NDF:19.5/18

Out: 0.008+/-0.010 $\chi^2$/NDF:11.2/21

All: -0.005+/-0.007 $\chi^2$/NDF: 34.3/40




Right In: 27.305+/-0.008 $\chi^2$/NDF: 1568329.0/15

Left Out: 25.892+/-0.012 $\chi^2$/NDF:6225.7/3

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614691.8/17

Left In: 22.107+/-0.011 $\chi^2$/NDF:60103.7/2

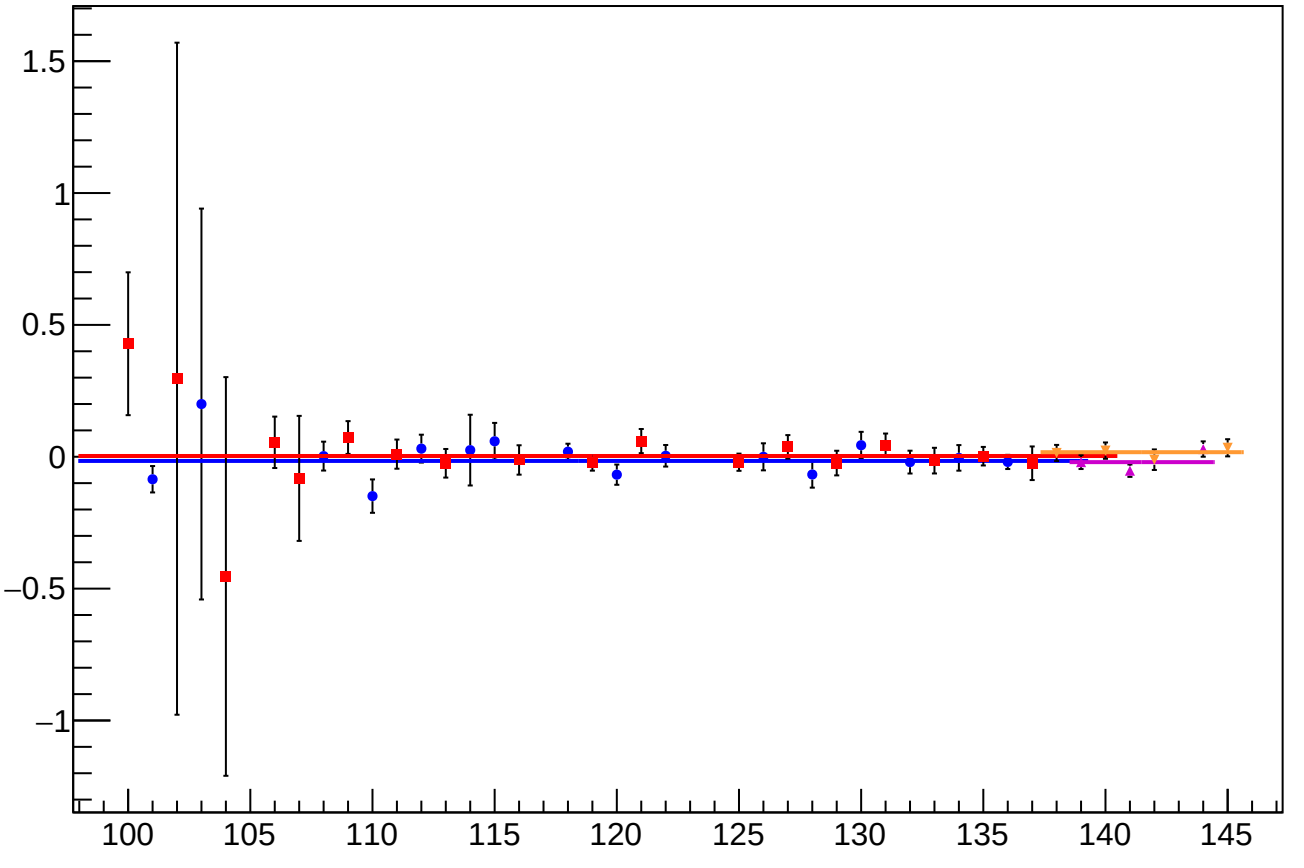
Left: 23.831+/-0.008 $\chi^2$/NDF: 124309.4/6

Right: 26.870+/-0.006 $\chi^2$/NDF: 4188911.1/33

In: 25.369+/-0.006 $\chi^2$/NDF:1779069.1/18

Out: 26.223+/-0.007 $\chi^2$/NDF:2622165.3/21

All: 25.771+/-0.005 $\chi^2$/NDF: 4409423.0/40




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: 0.017+/-0.016 $\chi^2$/NDF:0.8/3

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.020+/-0.015 $\chi^2$/NDF:4.8/2

Left: -0.003+/-0.011 $\chi^2$/NDF: 8.5/6

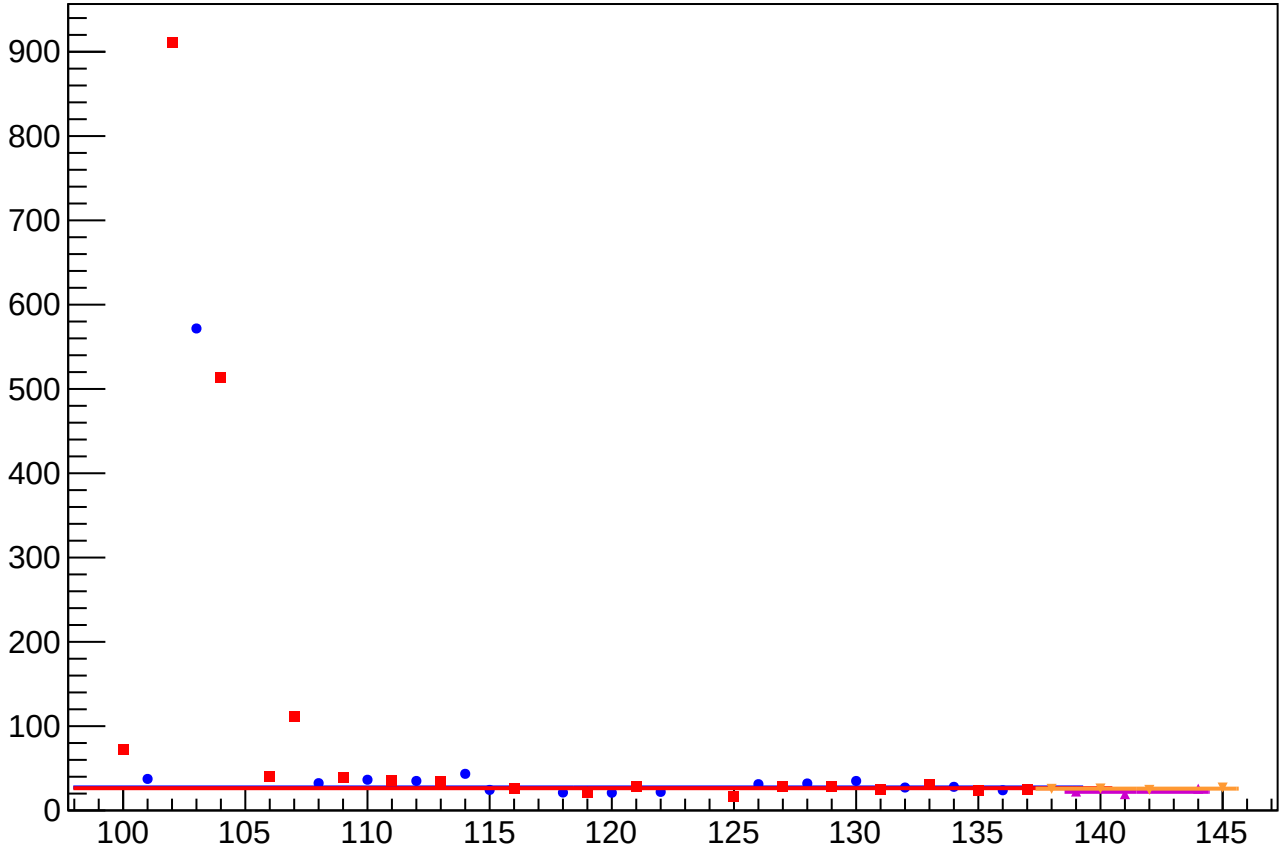
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.8/33

In: -0.017+/-0.009 $\chi^2$/NDF:19.5/18

Out: 0.008+/-0.010 $\chi^2$/NDF:11.2/21

All: -0.005+/-0.007 $\chi^2$/NDF: 34.3/40

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: 25.892+/-0.012 $\chi^2$/NDF:6225.7/3

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614691.8/17

Left In: 22.107+/-0.011 $\chi^2$/NDF:60103.7/2

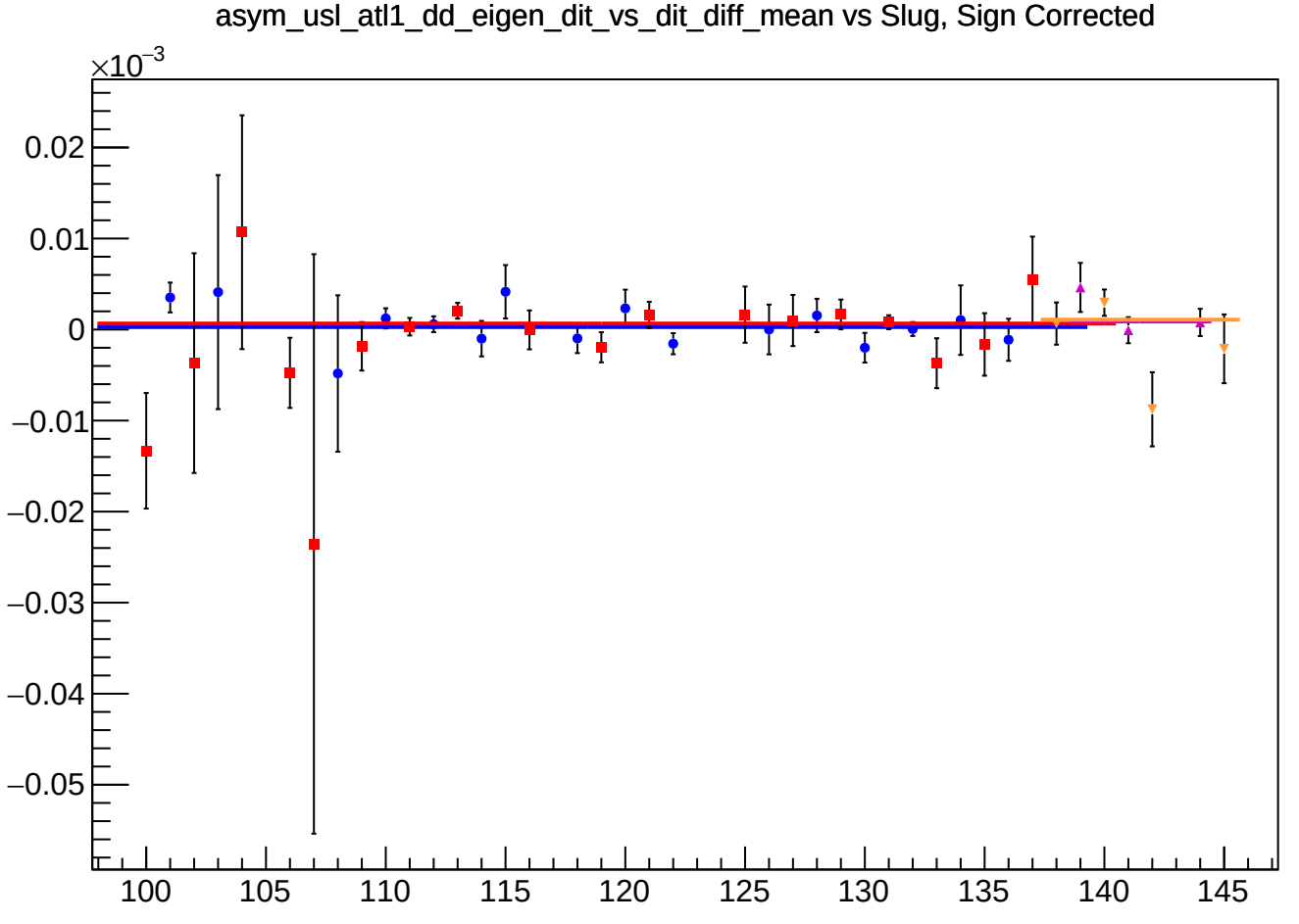
Left: 23.831+/-0.008 $\chi^2$/NDF: 124309.4/6

Right: 26.870+/-0.006 $\chi^2$/NDF: 4188911.1/33

In: 25.369+/-0.006 $\chi^2$/NDF:1779069.1/18

Out: 26.223+/-0.007 $\chi^2$/NDF:2622165.3/21

All: 25.771+/-0.005 $\chi^2$/NDF: 4409423.0/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8.3/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.4/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 10.7/6

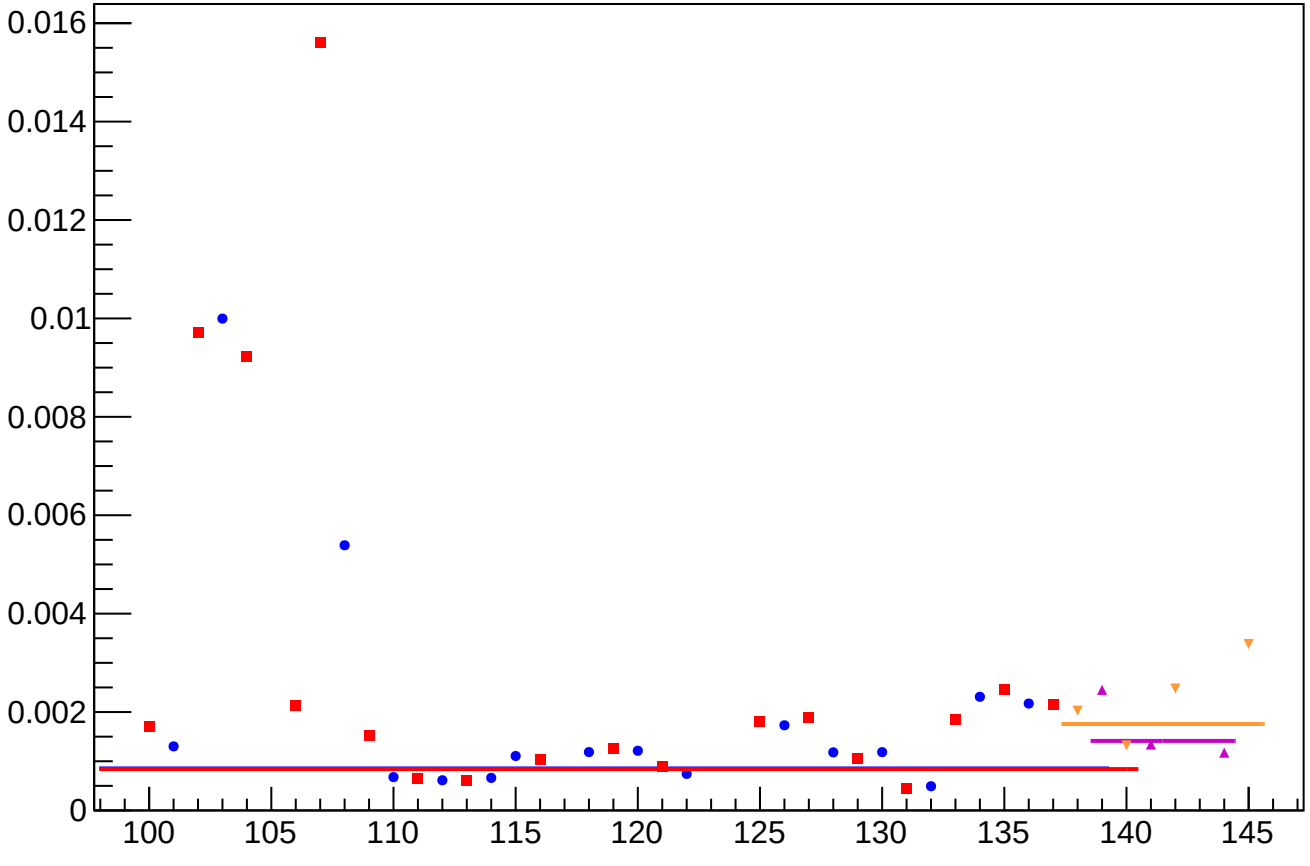
Right: 0.000+/-0.000 $\chi^2$/NDF: 34.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:17.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:27.7/21

All: 0.000+/-0.000 $\chi^2$/NDF: 45.3/40

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: 0.002+/-0.000 $\chi^2$/NDF:640394.4/3

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5039455.2/17

Left In: 0.001+/-0.000 $\chi^2$/NDF:352131.8/2

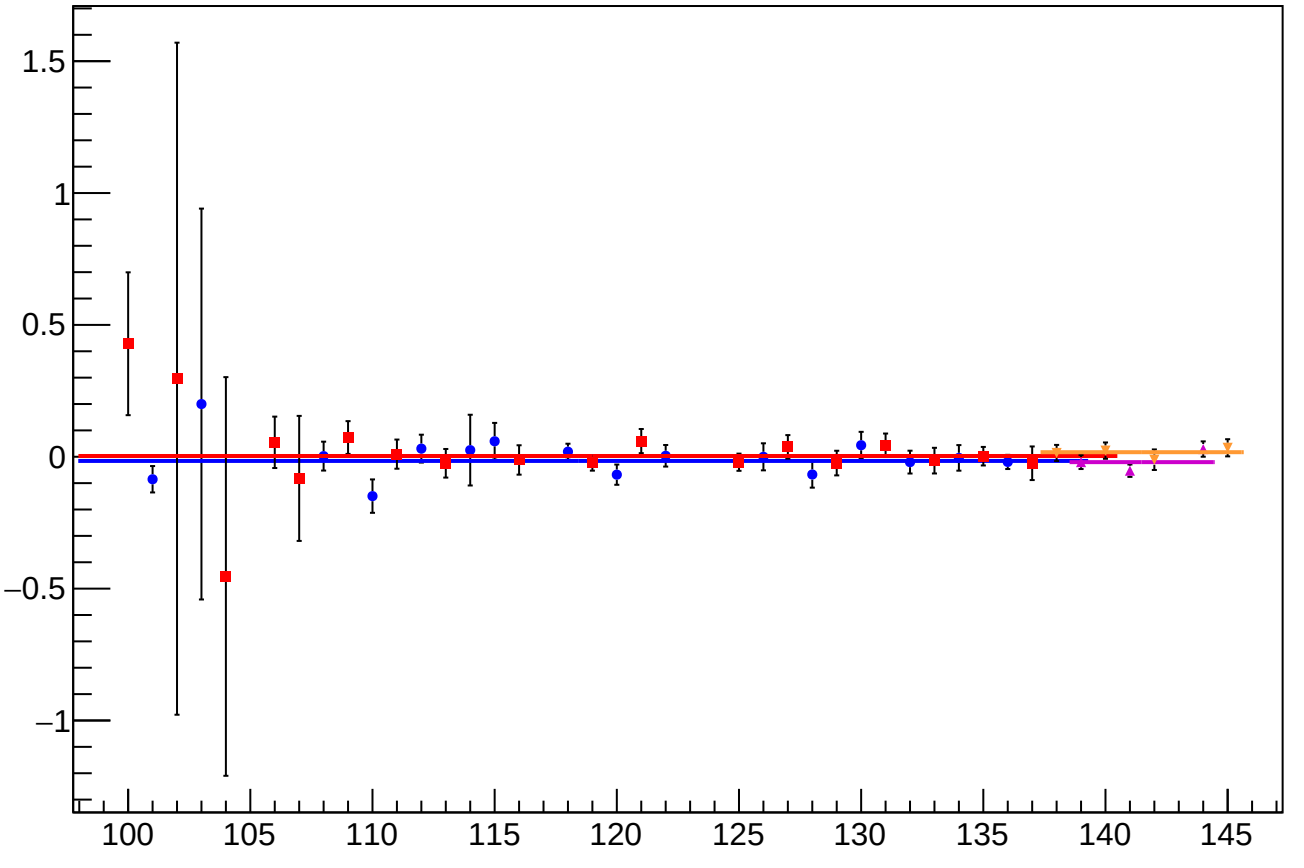
Left: 0.002+/-0.000 $\chi^2$/NDF: 1099911.3/6

Right: 0.001+/-0.000 $\chi^2$/NDF: 8904244.0/33

In: 0.001+/-0.000 $\chi^2$/NDF:4800581.5/18

Out: 0.001+/-0.000 $\chi^2$/NDF:6863469.4/21

All: 0.001+/-0.000 $\chi^2$/NDF: 11666062.5/40




Right In: -0.016+/-0.012 $\chi^2$/NDF: 14.6/15

Left Out: 0.017+/-0.016 $\chi^2$/NDF:0.8/3

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.020+/-0.015 $\chi^2$/NDF:4.8/2

Left: -0.003+/-0.011 $\chi^2$/NDF: 8.5/6

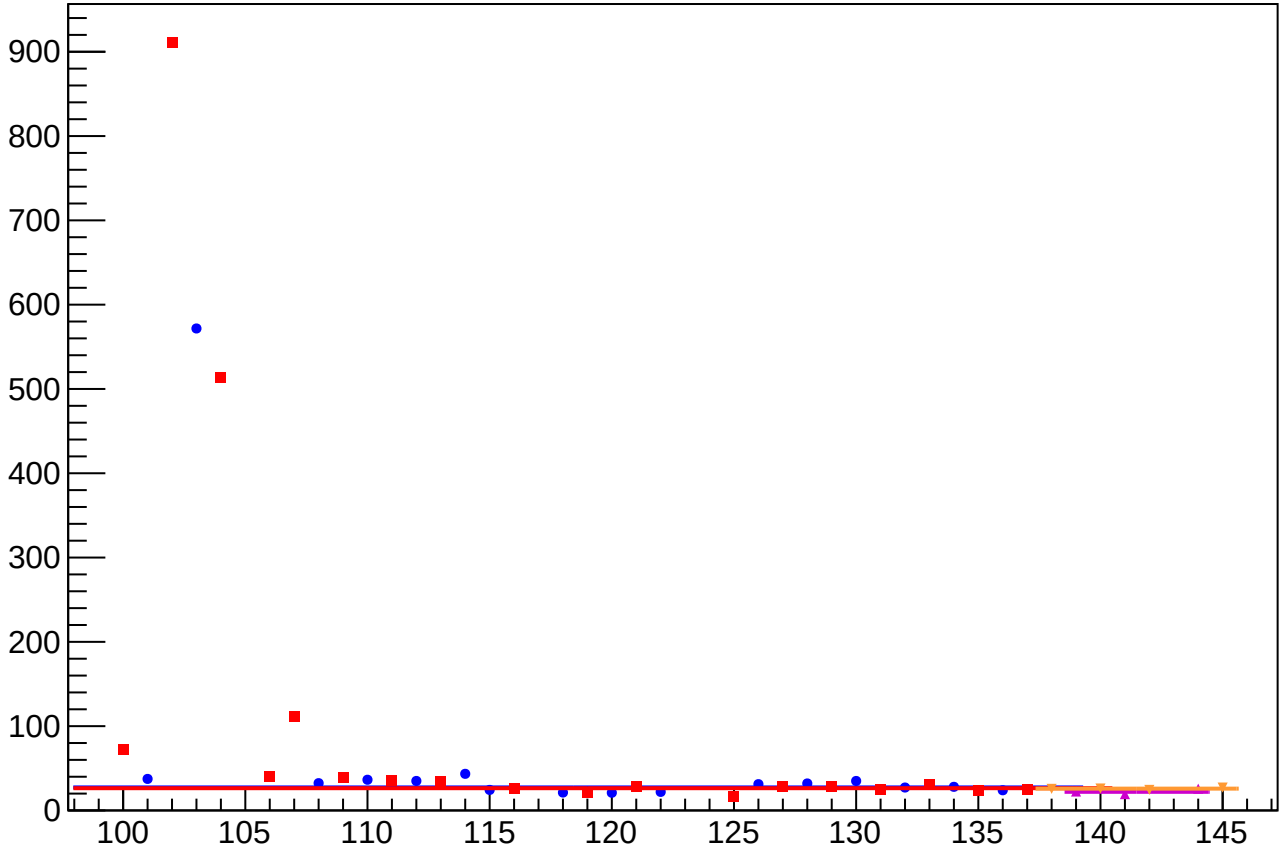
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.7/33

In: -0.017+/-0.009 $\chi^2$/NDF:19.5/18

Out: 0.008+/-0.010 $\chi^2$/NDF:11.2/21

All: -0.005+/-0.007 $\chi^2$/NDF: 34.3/40

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: 25.892+/-0.012 $\chi^2$/NDF:6222.1/3

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614710.8/17

Left In: 22.106+/-0.011 $\chi^2$/NDF:60118.6/2

Left: 23.831+/-0.008 $\chi^2$/NDF: 124318.5/6

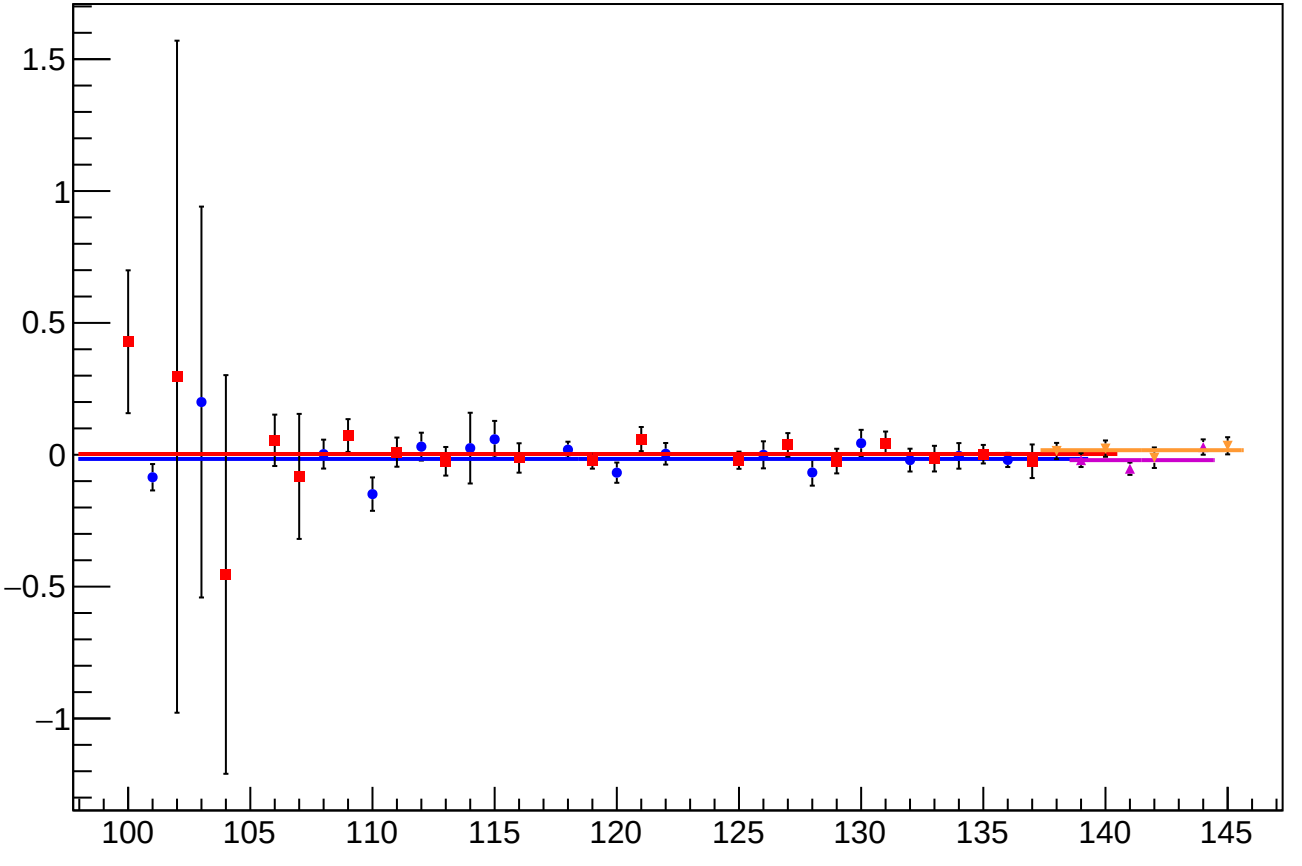
Right: 26.870+/-0.006 $\chi^2$/NDF: 4188927.1/33

In: 25.369+/-0.006 $\chi^2$/NDF:1779091.7/18

Out: 26.222+/-0.007 $\chi^2$/NDF:2622182.0/21

All: 25.771+/-0.005 $\chi^2$/NDF: 4409461.9/40

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: 0.017+/-0.016 $\chi^2$/NDF:0.8/3

Right Out: 0.003+/-0.012 $\chi^2$/NDF: 9.9/17

Left In: -0.020+/-0.015 $\chi^2$/NDF:4.8/2

Left: -0.003+/-0.011 $\chi^2$/NDF: 8.5/6

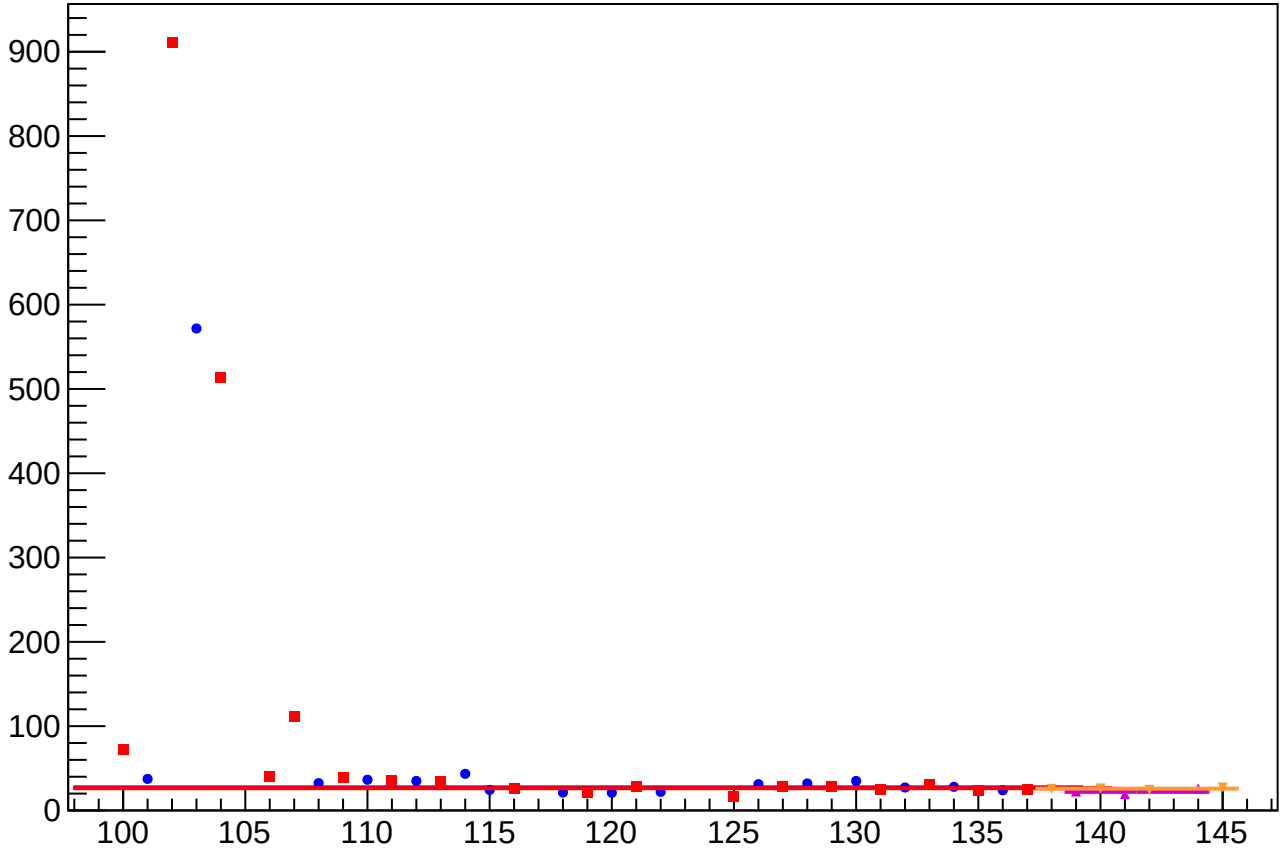
Right: -0.007+/-0.008 $\chi^2$/NDF: 25.7/33

In: -0.017+/-0.009 $\chi^2$/NDF:19.5/18

Out: 0.008+/-0.010 $\chi^2$/NDF:11.2/21

All: -0.005+/-0.007 $\chi^2$/NDF: 34.3/40

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: 25.892+/-0.012 $\chi^2$/NDF:6222.1/3

Right Out: 26.400+/-0.009 $\chi^2$/NDF: 2614710.8/17

Left In: 22.106+/-0.011 $\chi^2$/NDF:60118.6/2

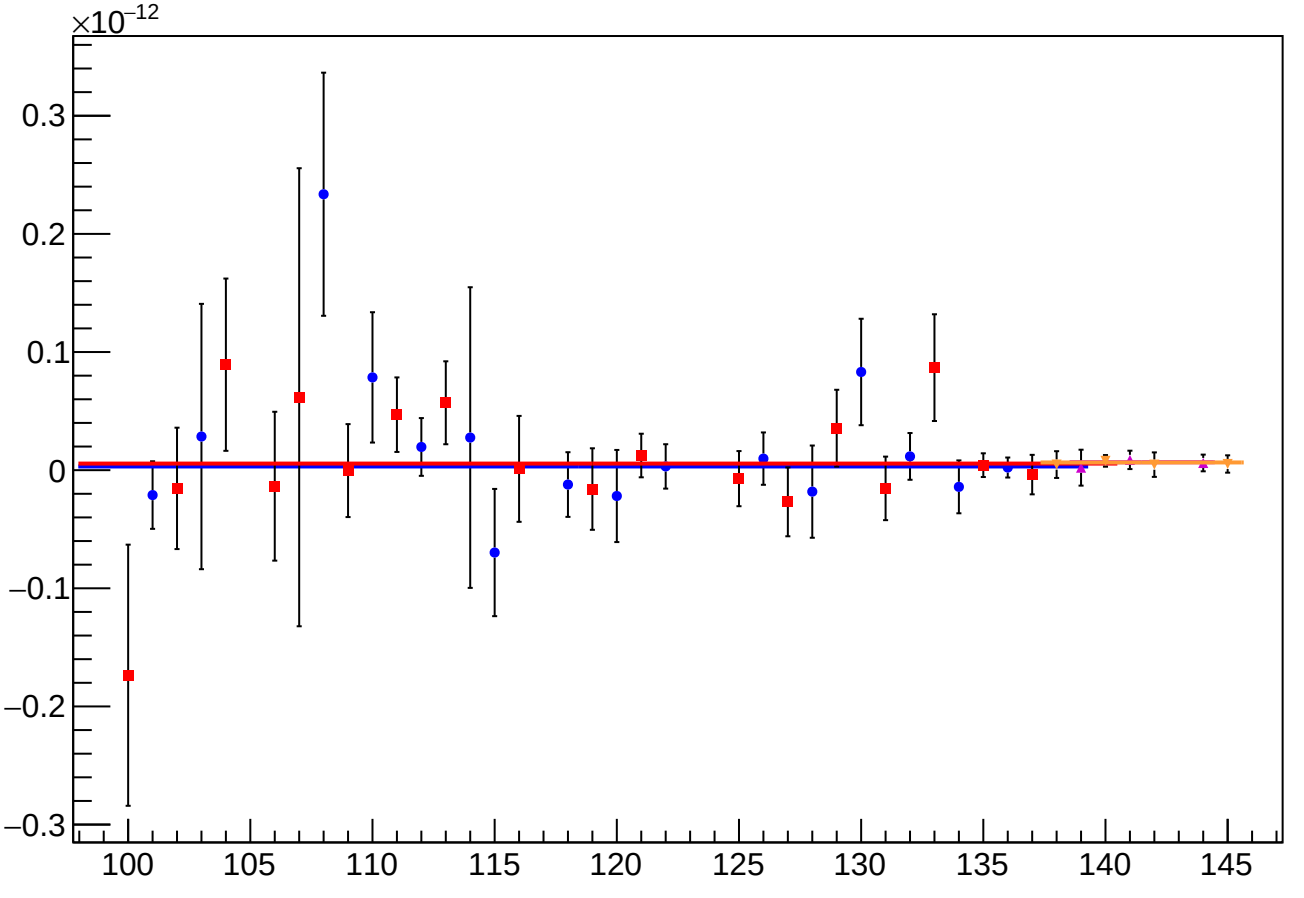
Left: 23.831+/-0.008 $\chi^2$/NDF: 124318.5/6

Right: 26.870+/-0.006 $\chi^2$/NDF: 4188927.1/33

In: 25.369+/-0.006 $\chi^2$/NDF:1779091.7/18

Out: 26.222+/-0.007 $\chi^2$/NDF:2622182.0/21

All: 25.771+/-0.005 $\chi^2$/NDF: 4409461.9/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.2/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.3/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.2/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 0.3/6

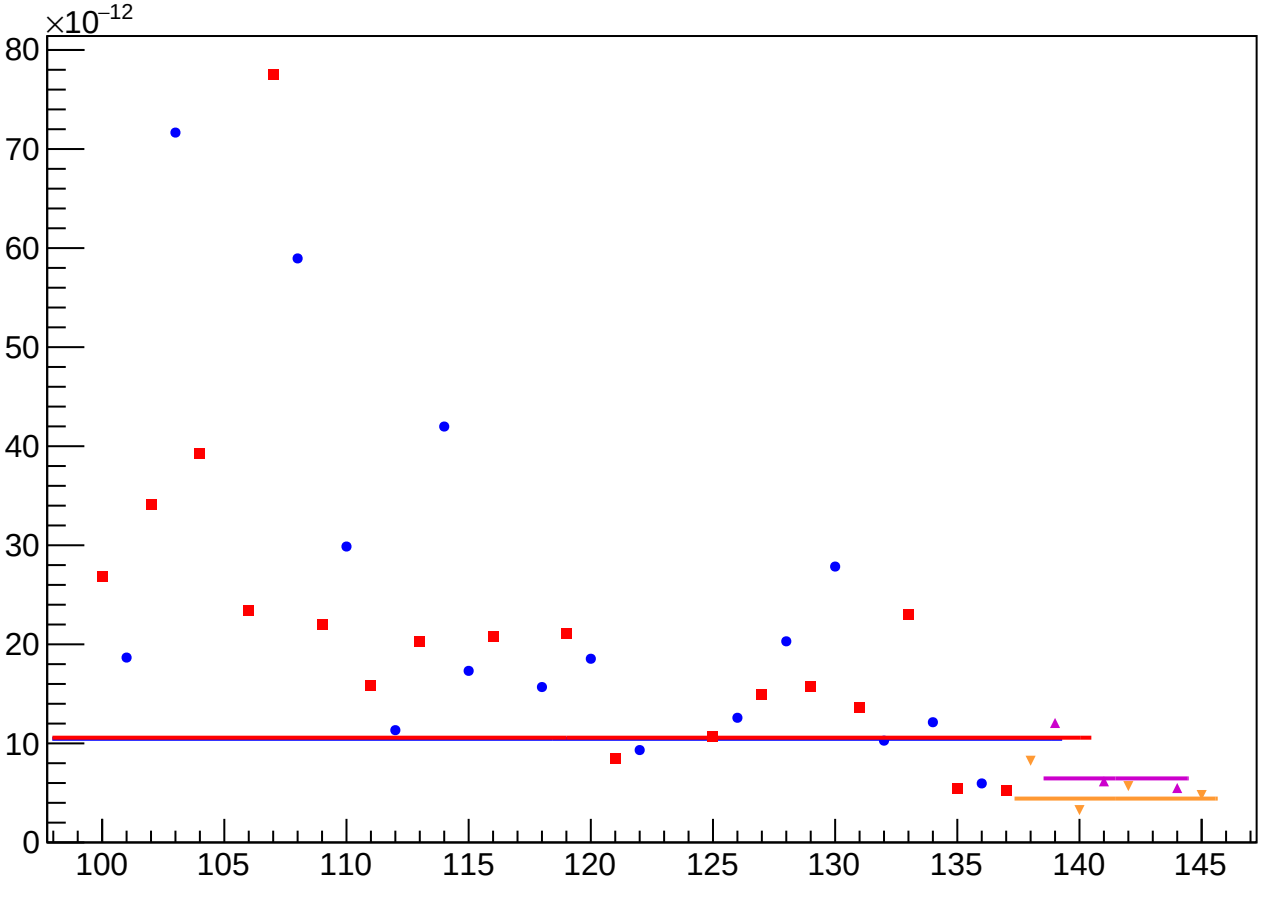
Right: 0.000+/-0.000 $\chi^2$/NDF: 30.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:15.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:15.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 30.9/40

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:373696.3/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2771384.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:311547.6/2

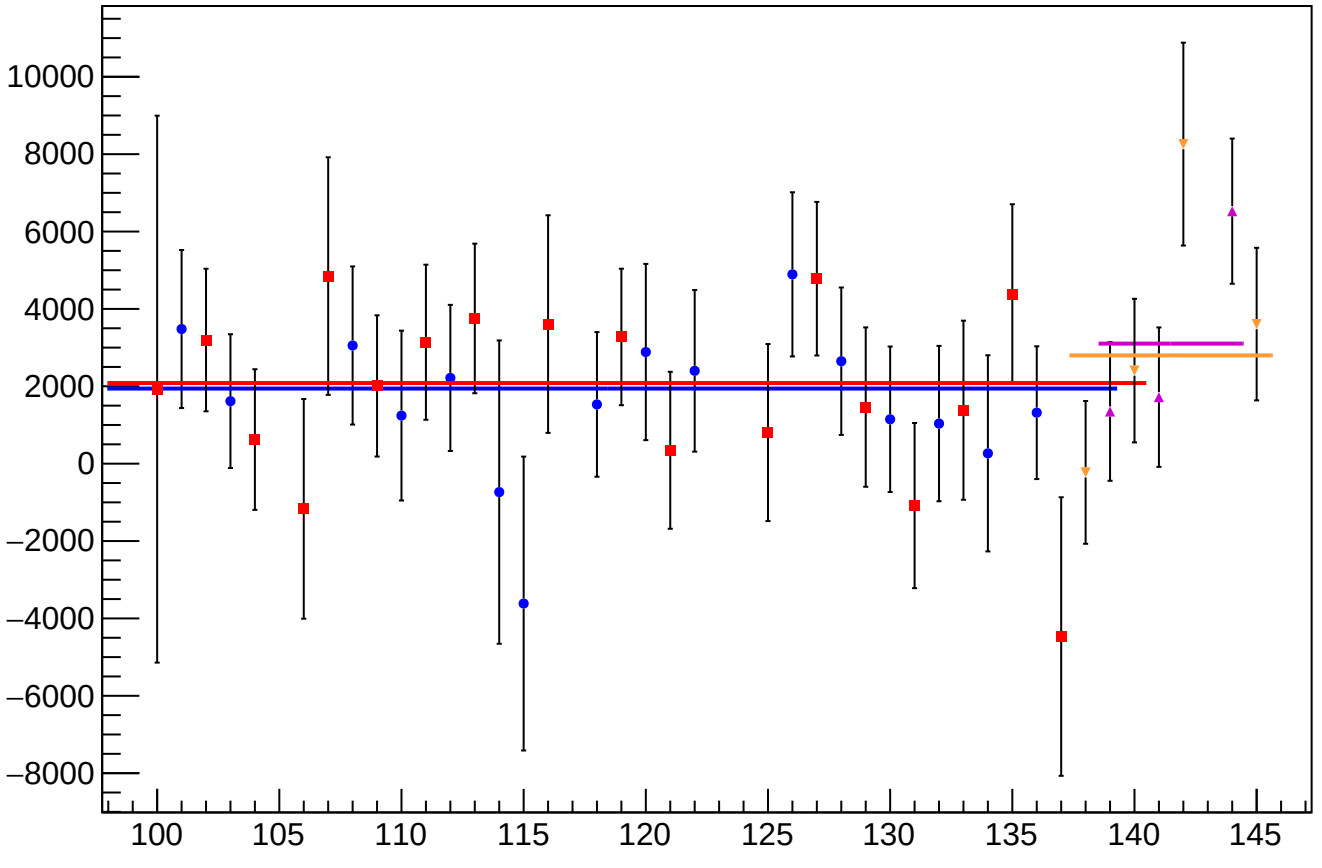
Left: 0.000+/-0.000 $\chi^2$/NDF: 906516.5/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 5566631.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:3663551.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4655545.0/21

All: 0.000+/-0.000 $\chi^2$/NDF: 8707057.5/40




Right In: 1940.976+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 2799.241+/-1006.742 $\chi^2$/NDF:7.2/3

Right Out: 2083.952+/-519.583 $\chi^2$/NDF: 14.5/17

Left In: 3103.197+/-1052.190 $\chi^2$/NDF:4.9/2

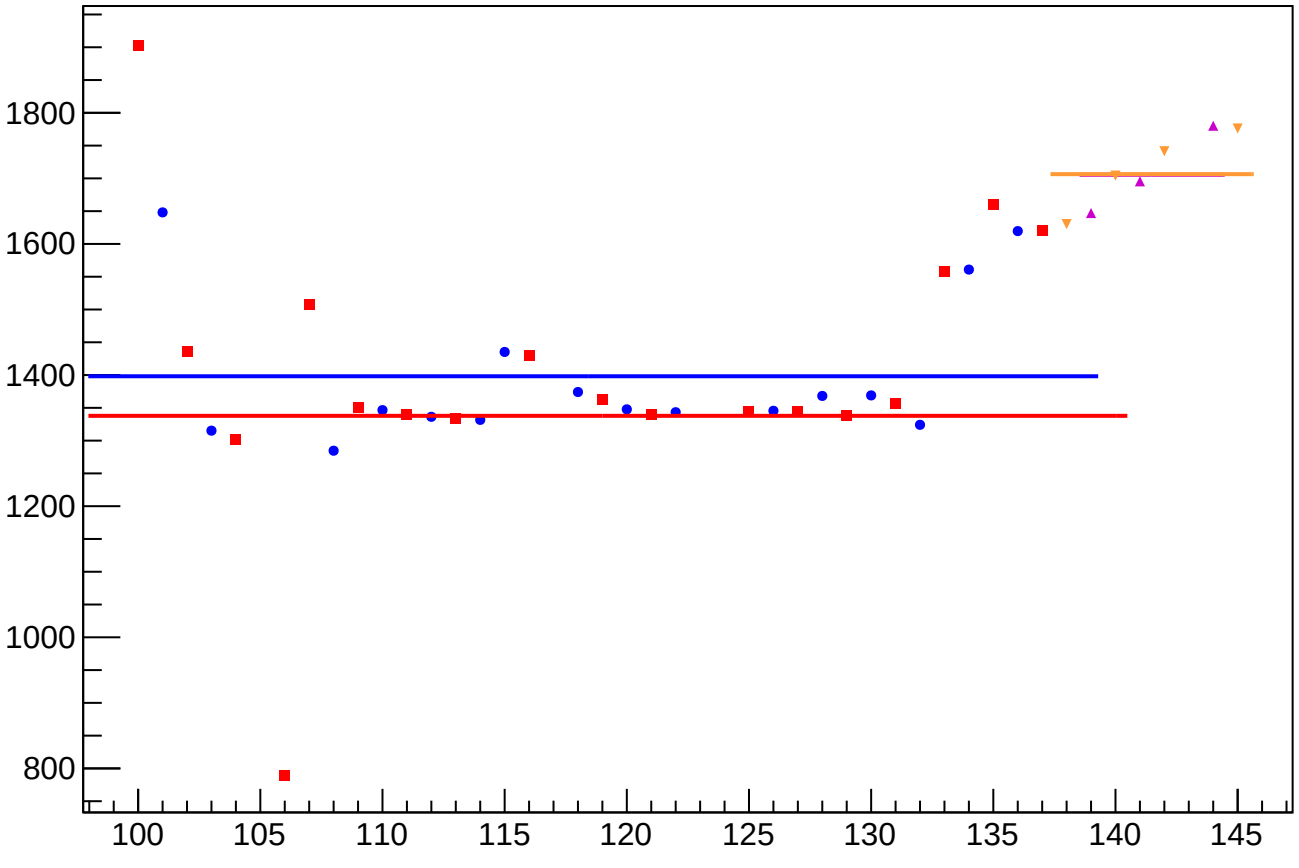
Left: 2944.513+/-727.410 $\chi^2$/NDF: 12.2/6

Right: 2012.819+/-368.313 $\chi^2$/NDF: 21.4/33

In: 2170.650+/-467.742 $\chi^2$/NDF:12.8/18

Out: 2234.403+/-461.717 $\chi^2$/NDF:22.1/21

All: 2202.940+/-328.593 $\chi^2$/NDF: 34.9/40




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1706.450+/-0.712 $\chi^2$/NDF:6259.4/3

Right Out: 1337.819+/-0.356 $\chi^2$/NDF: 317763.3/17

Left In: 1705.507+/-0.744 $\chi^2$/NDF:5360.2/2

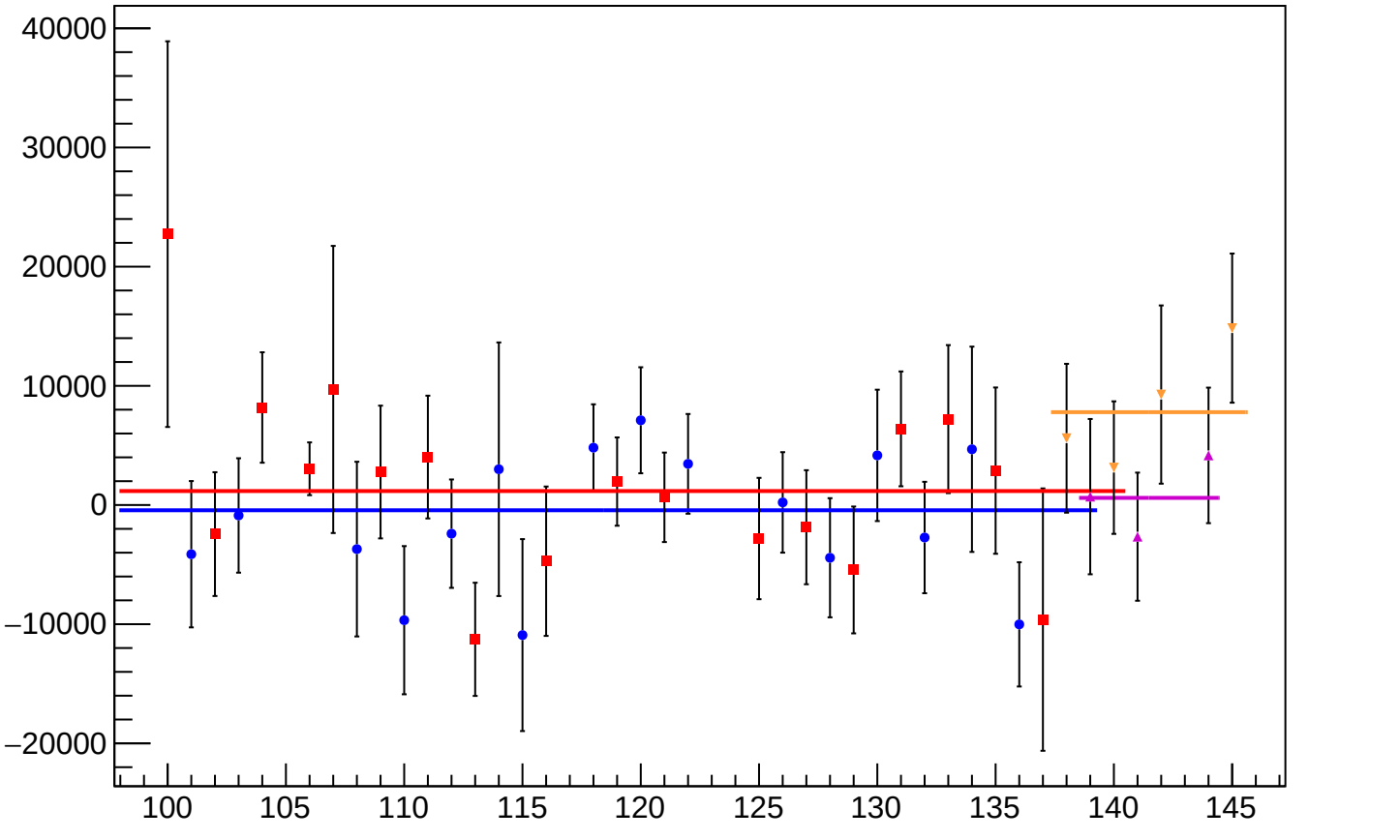
Left: 1705.999+/-0.514 $\chi^2$/NDF: 11620.4/6

Right: 1366.881+/-0.256 $\chi^2$/NDF: 425531.4/33

In: 1458.898+/-0.331 $\chi^2$/NDF:236207.3/18

Out: 1411.535+/-0.318 $\chi^2$/NDF:538549.6/21

All: 1434.312+/-0.229 $\chi^2$/NDF: 785401.8/40




Right In: -441.138+/-1295.916 $\chi^2$/NDF: 15.9/15

Left Out: 7791.210+/-3140.141 $\chi^2$/NDF:2.1/3

Right Out: 1171.548+/-1119.890 $\chi^2$/NDF: 19.7/17

Left In: 598.651+/-3350.295 $\chi^2$/NDF:0.8/2

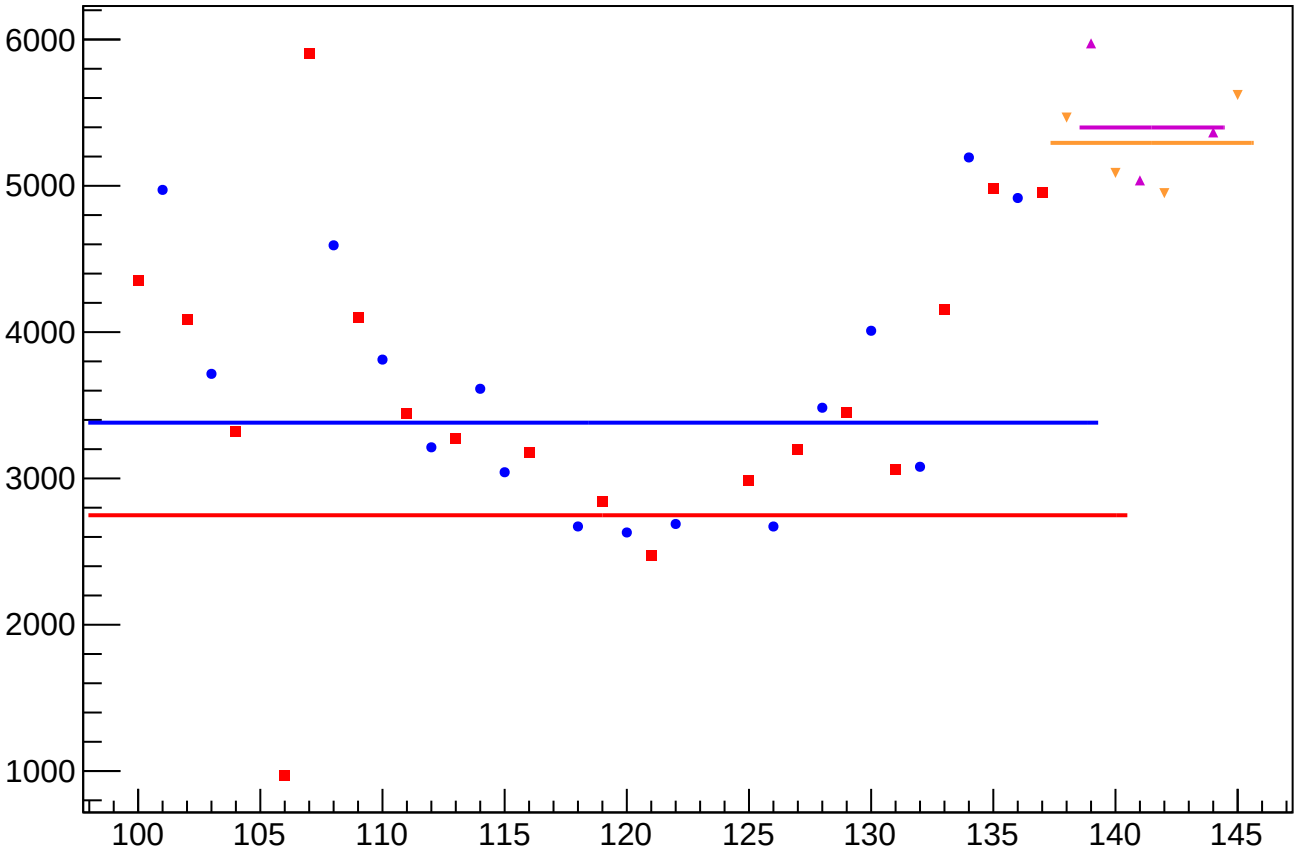
Left: 4427.574+/-2291.109 $\chi^2$/NDF: 5.3/6

Right: 482.092+/-847.335 $\chi^2$/NDF: 36.5/33

In: -305.812+/-1208.648 $\chi^2$/NDF:16.7/18

Out: 1918.497+/-1054.816 $\chi^2$/NDF:25.7/21

All: 956.818+/-794.726 $\chi^2$/NDF: 44.4/40




Right In: 3381.117+/-0.916 $\chi^2$/NDF: 757146.6/15

Left Out: 5293.510+/-2.220 $\chi^2$/NDF:13960.3/3

Right Out: 2748.372+/-0.792 $\chi^2$/NDF: 2264563.8/17

Left In: 5398.682+/-2.369 $\chi^2$/NDF:24695.9/2

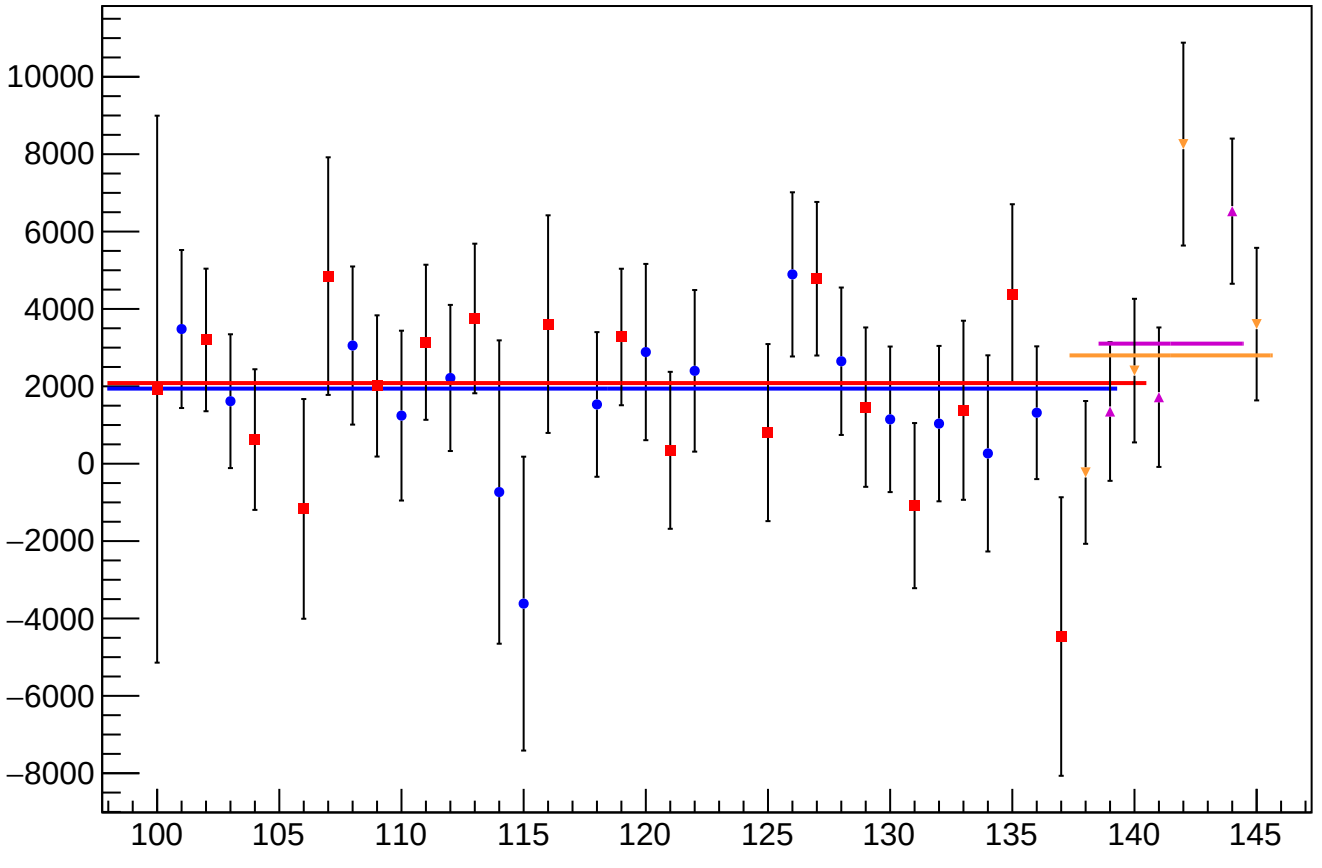
Left: 5342.694+/-1.620 $\chi^2$/NDF: 39705.4/6

Right: 3018.883+/-0.599 $\chi^2$/NDF: 3294667.2/33

In: 3643.697+/-0.855 $\chi^2$/NDF:1412749.2/18

Out: 3035.560+/-0.746 $\chi^2$/NDF:3444145.0/21

All: 3298.488+/-0.562 $\chi^2$/NDF: 5144312.3/40




Right In: 1941.031+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 2799.448+/-1006.742 $\chi^2$/NDF:7.2/3

Right Out: 2084.166+/-519.587 $\chi^2$/NDF: 14.5/17

Left In: 3103.268+/-1052.190 $\chi^2$/NDF:4.9/2

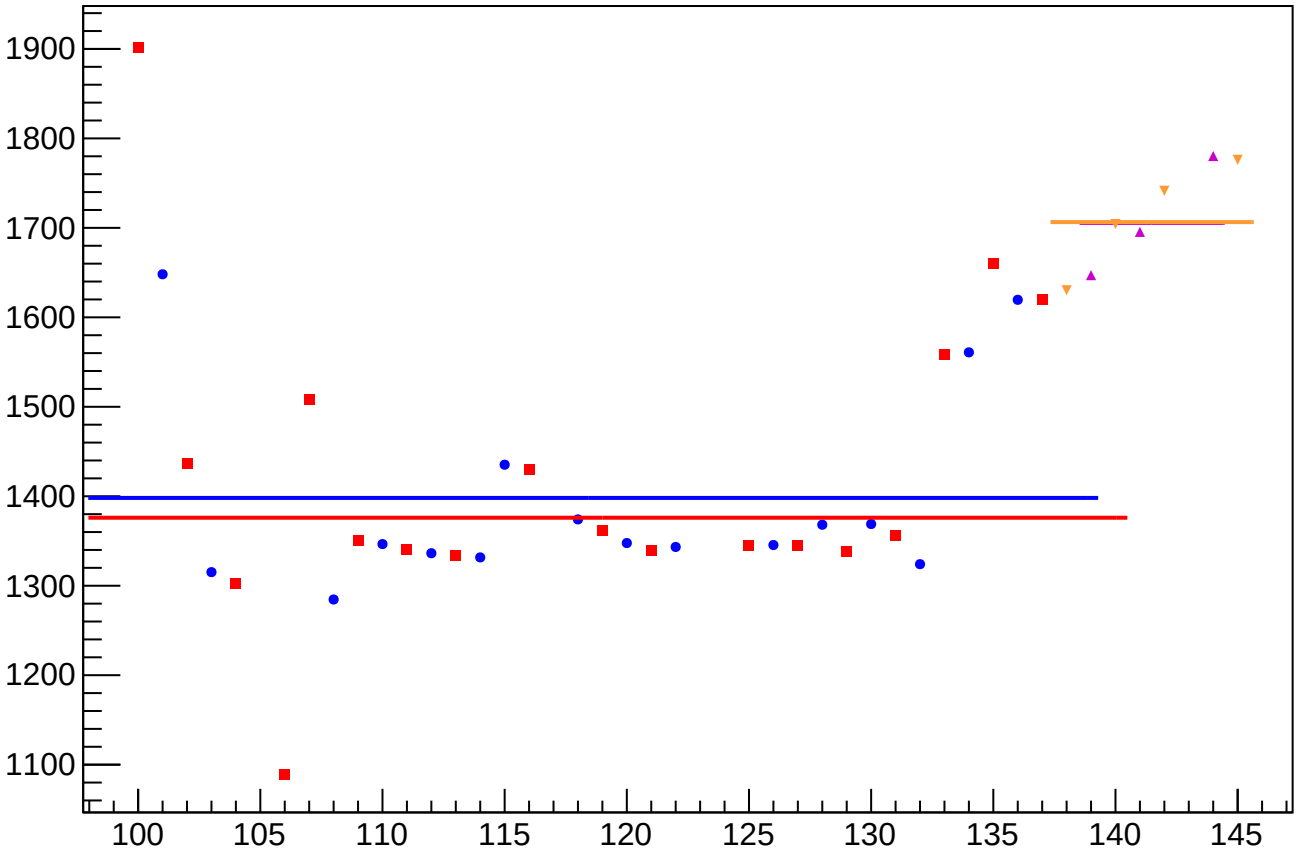
Left: 2944.655+/-727.410 $\chi^2$/NDF: 12.2/6

Right: 2012.954+/-368.315 $\chi^2$/NDF: 21.4/33

In: 2170.709+/-467.742 $\chi^2$/NDF:12.8/18

Out: 2234.618+/-461.720 $\chi^2$/NDF:22.1/21

All: 2203.078+/-328.594 $\chi^2$/NDF: 34.9/40




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1706.450+/-0.712 $\chi^2$/NDF:6259.4/3

Right Out: 1376.021+/-0.363 $\chi^2$/NDF: 114033.6/17

Left In: 1705.507+/-0.744 $\chi^2$/NDF:5360.2/2

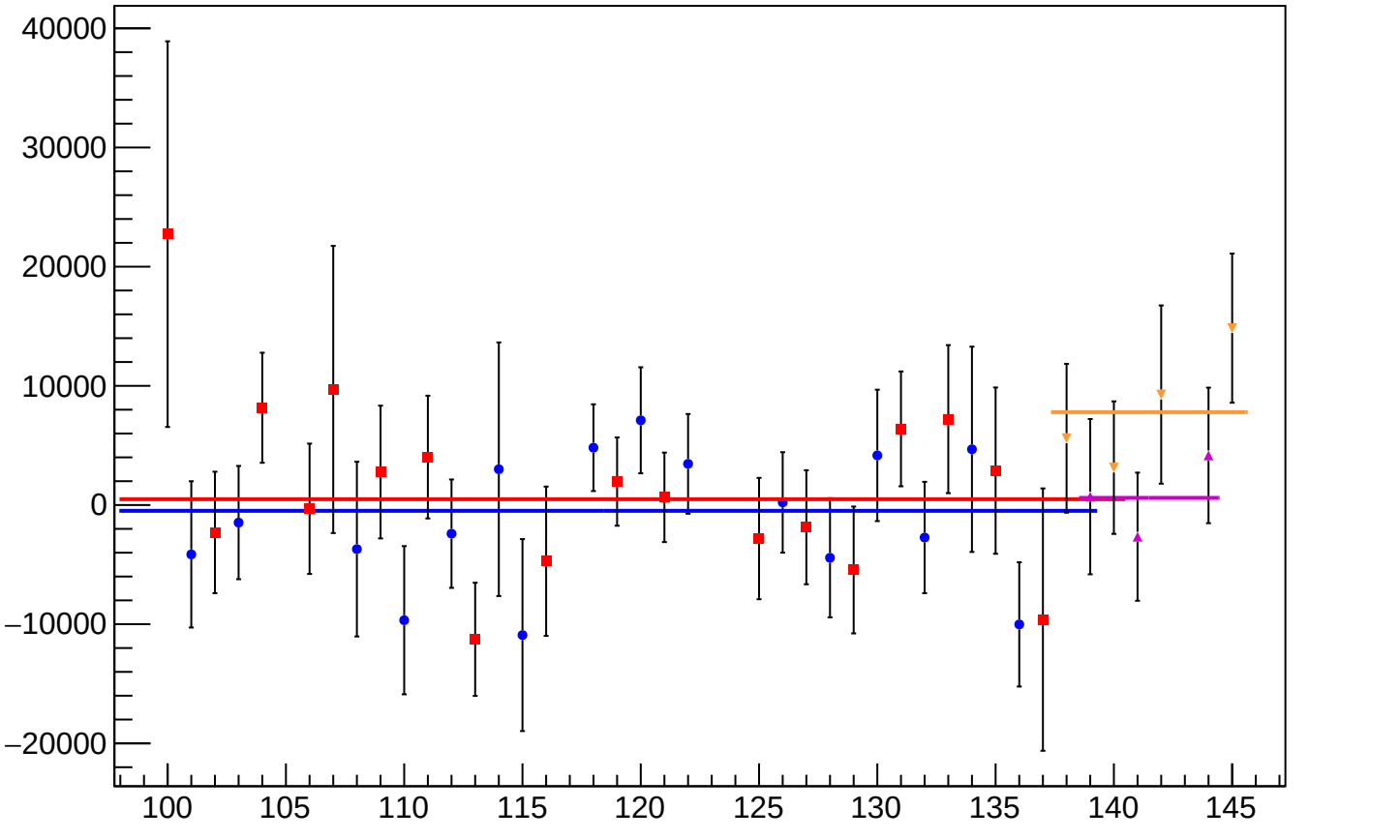
Left: 1705.999+/-0.514 $\chi^2$/NDF: 11620.4/6

Right: 1386.888+/-0.259 $\chi^2$/NDF: 209787.8/33

In: 1458.897+/-0.331 $\chi^2$/NDF:236207.4/18

Out: 1444.066+/-0.323 $\chi^2$/NDF:291376.9/21

All: 1451.307+/-0.231 $\chi^2$/NDF: 528613.4/40




Right In: -486.563+/-1294.930 $\chi^2$/NDF: 15.9/15

Left Out: 7791.390+/-3140.143 $\chi^2$/NDF:2.1/3

Right Out: 488.594+/-1261.315 $\chi^2$/NDF: 18.7/17

Left In: 598.677+/-3350.291 $\chi^2$/NDF:0.8/2

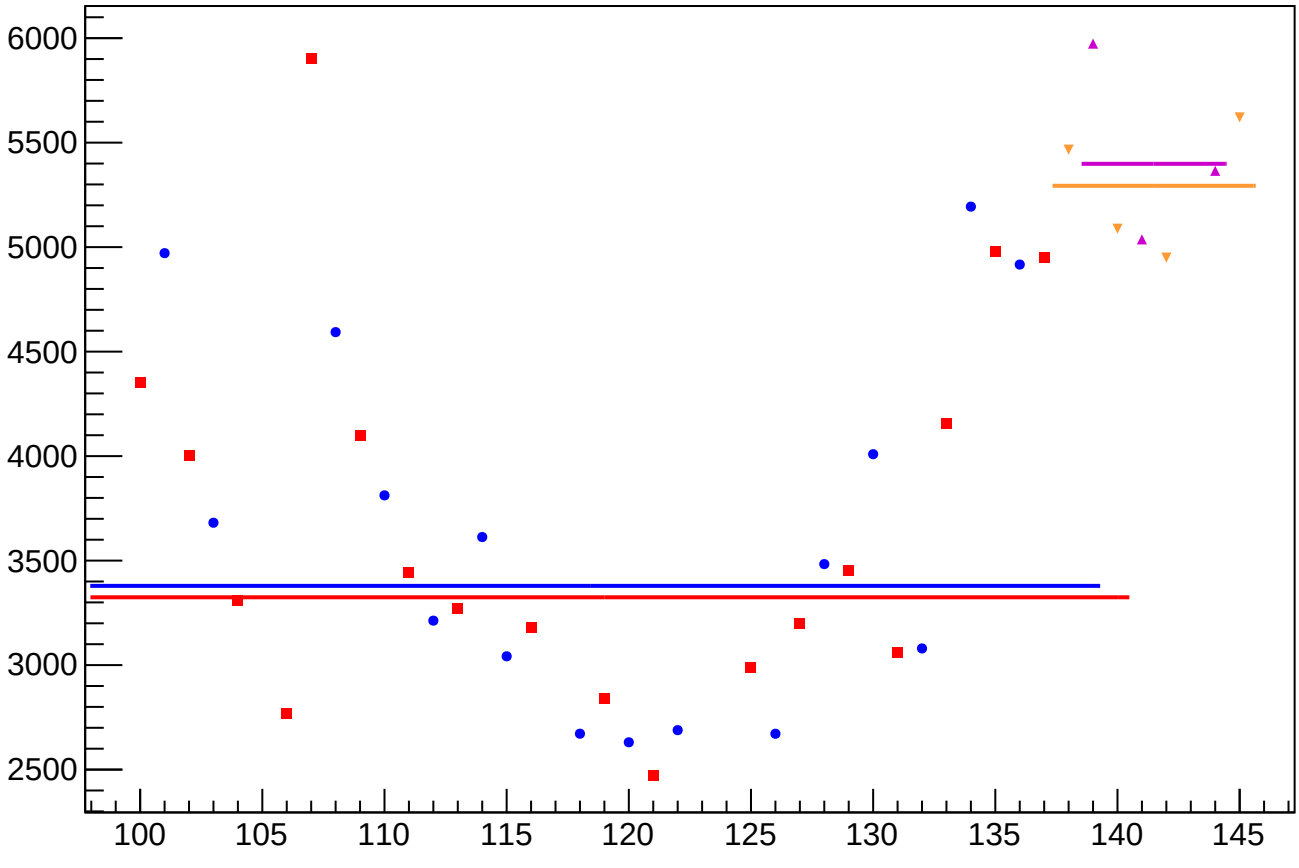
Left: 4427.676+/-2291.109 $\chi^2$/NDF: 5.3/6

Right: 13.837+/-903.535 $\chi^2$/NDF: 35.0/33

In: -345.509+/-1207.848 $\chi^2$/NDF:16.8/18

Out: 1503.153+/-1170.425 $\chi^2$/NDF:25.5/21

All: 607.904+/-840.534 $\chi^2$/NDF: 43.5/40




Right In: 3379.110+/-0.916 $\chi^2$/NDF: 755339.9/15

Left Out: 5293.513+/-2.220 $\chi^2$/NDF:13959.3/3

Right Out: 3324.449+/-0.892 $\chi^2$/NDF: 543813.3/17

Left In: 5398.677+/-2.369 $\chi^2$/NDF:24696.4/2

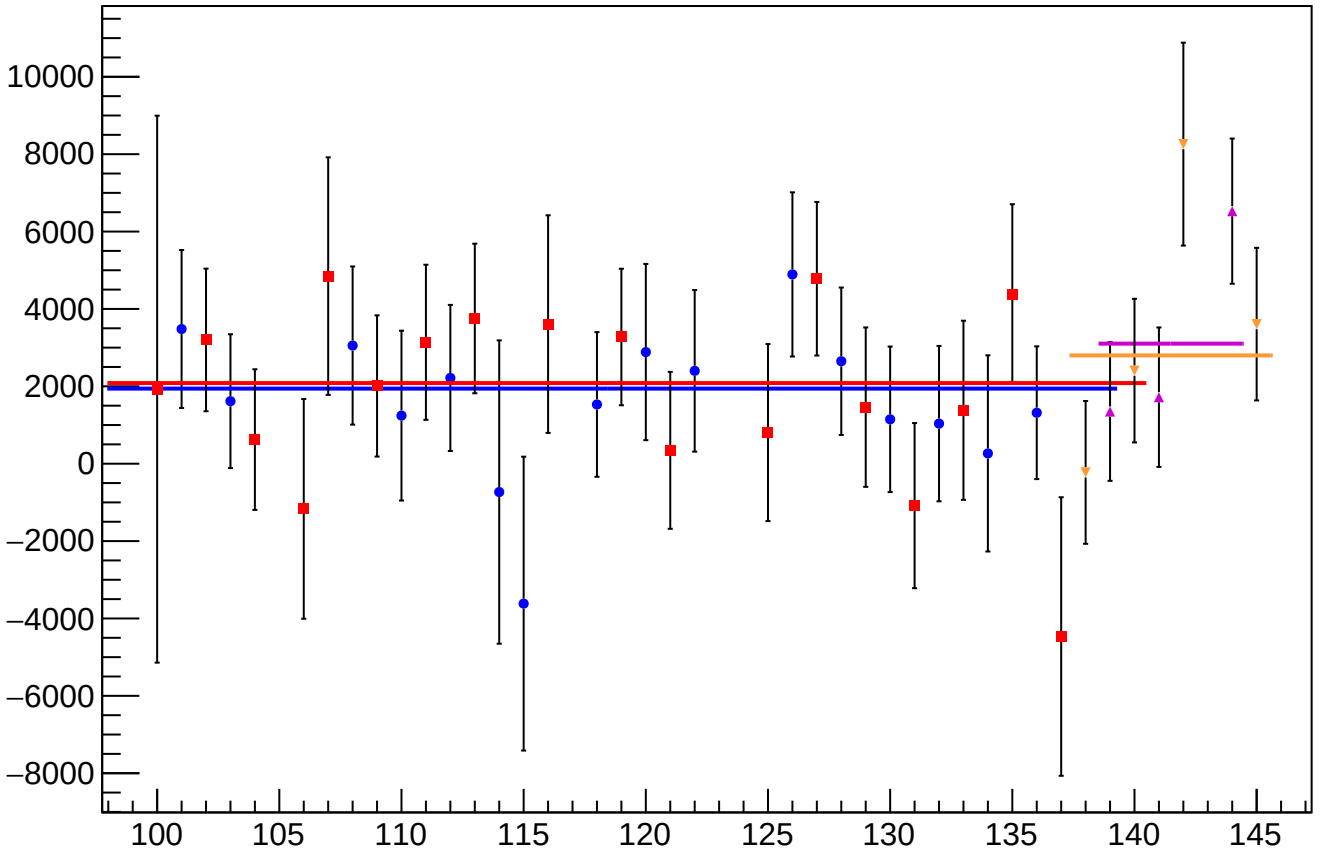
Left: 5342.694+/-1.620 $\chi^2$/NDF: 39704.8/6

Right: 3351.061+/-0.639 $\chi^2$/NDF: 1300981.9/33

In: 3641.603+/-0.854 $\chi^2$/NDF:1412321.4/18

Out: 3598.007+/-0.828 $\chi^2$/NDF:1234931.6/21

All: 3619.119+/-0.594 $\chi^2$/NDF: 2648596.7/40




Right In: 1941.031+/-522.174 $\chi^2$/NDF: 6.9/15

Left Out: 2799.448+/-1006.742 $\chi^2$/NDF:7.2/3

Right Out: 2084.166+/-519.587 $\chi^2$/NDF: 14.5/17

Left In: 3103.268+/-1052.190 $\chi^2$/NDF:4.9/2

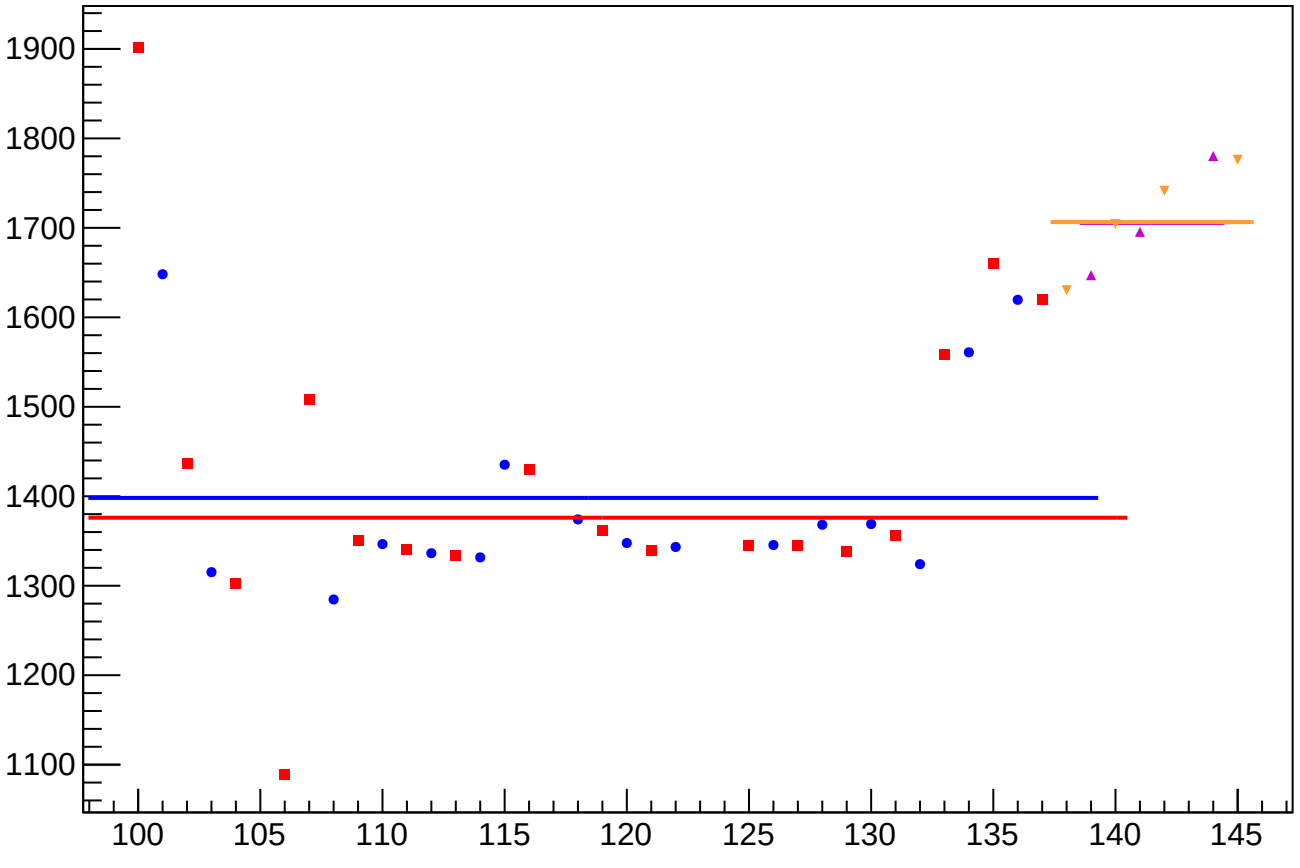
Left: 2944.655+/-727.410 $\chi^2$/NDF: 12.2/6

Right: 2012.954+/-368.315 $\chi^2$/NDF: 21.4/33

In: 2170.709+/-467.742 $\chi^2$/NDF:12.8/18

Out: 2234.618+/-461.720 $\chi^2$/NDF:22.1/21

All: 2203.078+/-328.594 $\chi^2$/NDF: 34.9/40




Right In: 1398.161+/-0.369 $\chi^2$/NDF: 93923.6/15

Left Out: 1706.450+/-0.712 $\chi^2$/NDF:6259.4/3

Right Out: 1376.021+/-0.363 $\chi^2$/NDF: 114033.6/17

Left In: 1705.507+/-0.744 $\chi^2$/NDF:5360.2/2

Left: 1705.999+/-0.514 $\chi^2$/NDF: 11620.4/6

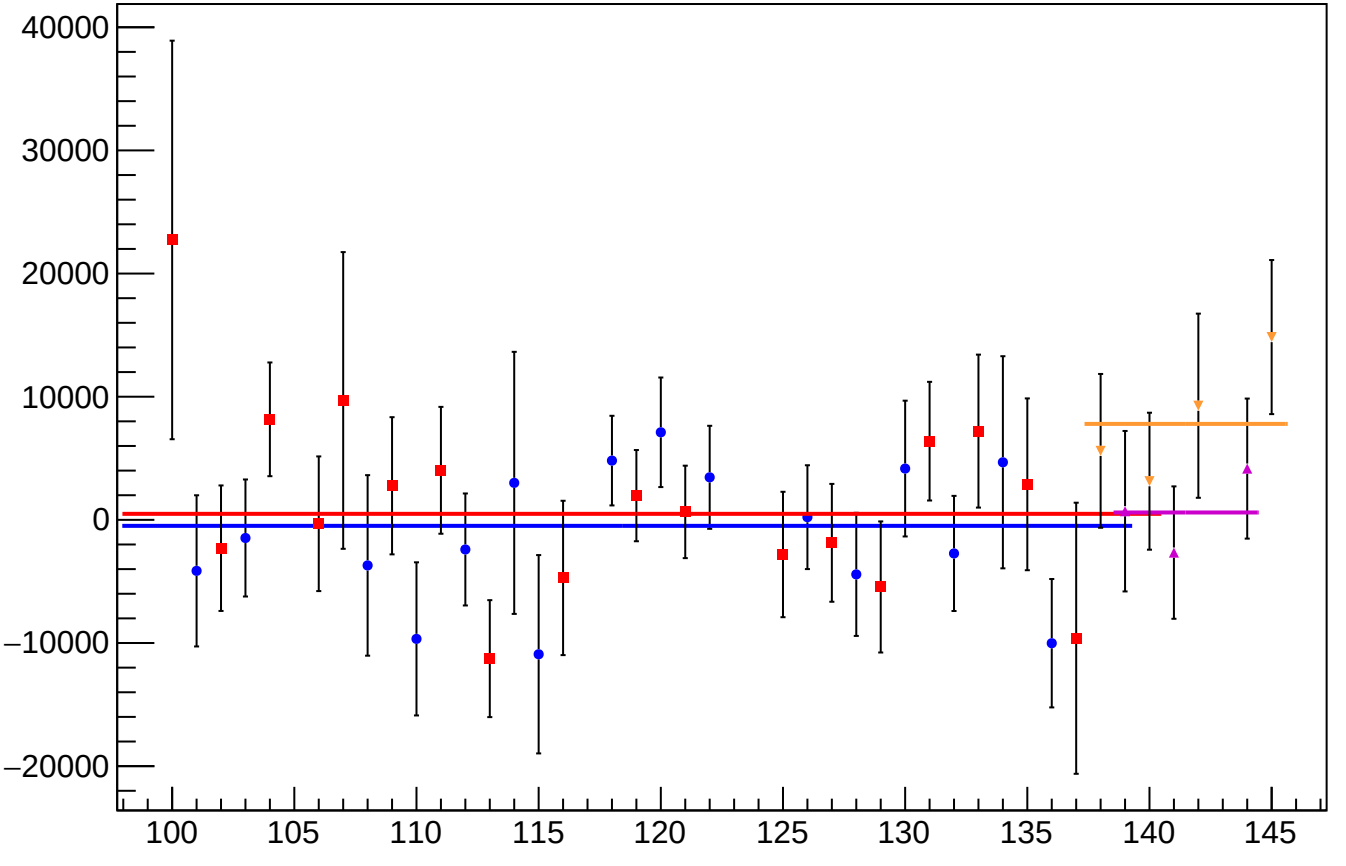
Right: 1386.888+/-0.259 $\chi^2$/NDF: 209787.8/33

In: 1458.897+/-0.331 $\chi^2$/NDF:236207.4/18

Out: 1444.066+/-0.323 $\chi^2$/NDF:291376.9/21

All: 1451.307+/-0.231 $\chi^2$/NDF: 528613.4/40

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: 7791.390+/-3140.143 $\chi^2$/NDF:2.1/3

Right Out: 488.594+/-1261.315 $\chi^2$/NDF: 18.7/17

Left In: 598.677+/-3350.291 $\chi^2$/NDF:0.8/2

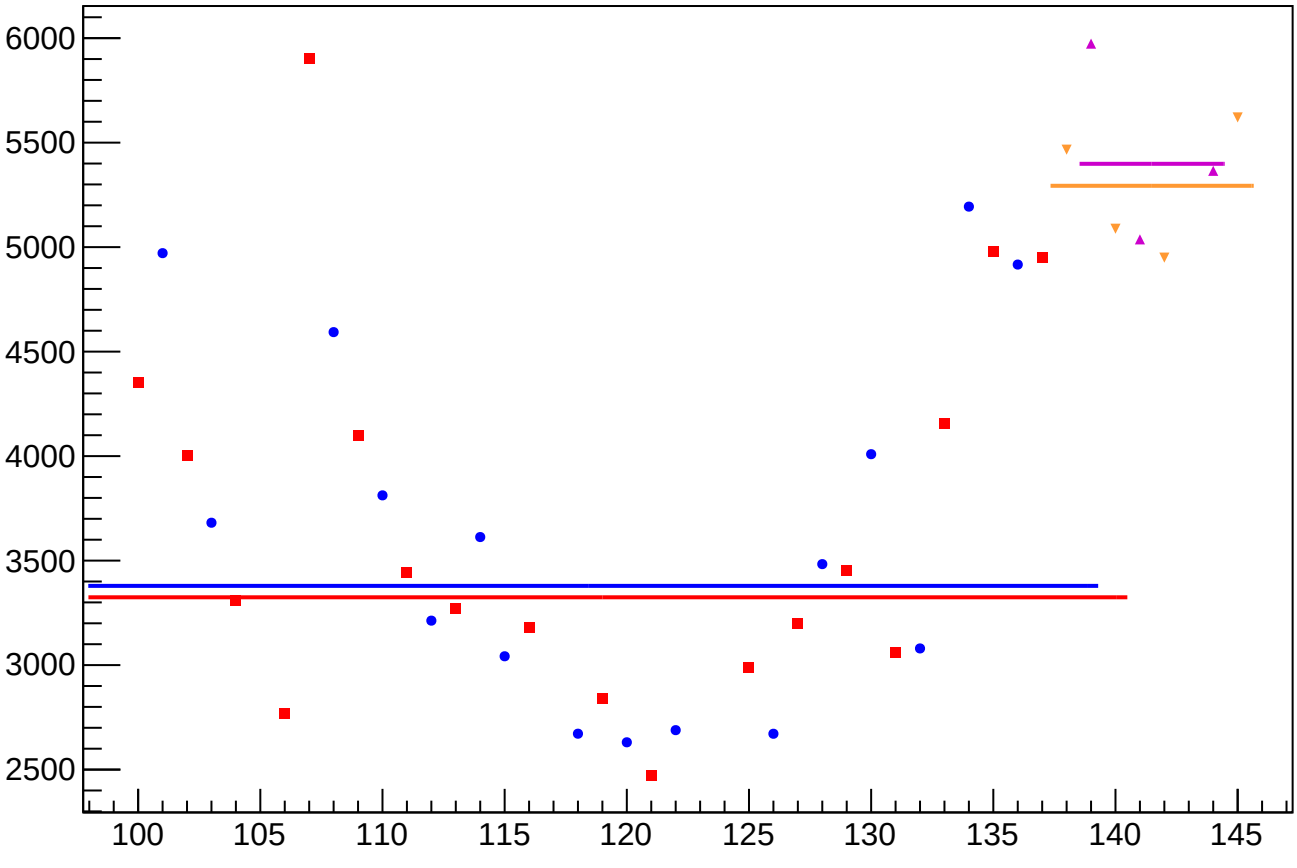
Left: 4427.676+/-2291.109 $\chi^2$/NDF: 5.3/6

Right: 13.837+/-903.535 $\chi^2$/NDF: 35.0/33

In: -345.509+/-1207.848 $\chi^2$/NDF:16.8/18

Out: 1503.153+/-1170.425 $\chi^2$/NDF:25.5/21

All: 607.904+/-840.534 $\chi^2$/NDF: 43.5/40




Right In: 3379.110+/-0.916 $\chi^2$/NDF: 755339.9/15

Left Out: 5293.513+/-2.220 $\chi^2$/NDF:13959.3/3

Right Out: 3324.449+/-0.892 $\chi^2$/NDF: 543813.3/17

Left In: 5398.677+/-2.369 $\chi^2$/NDF:24696.4/2

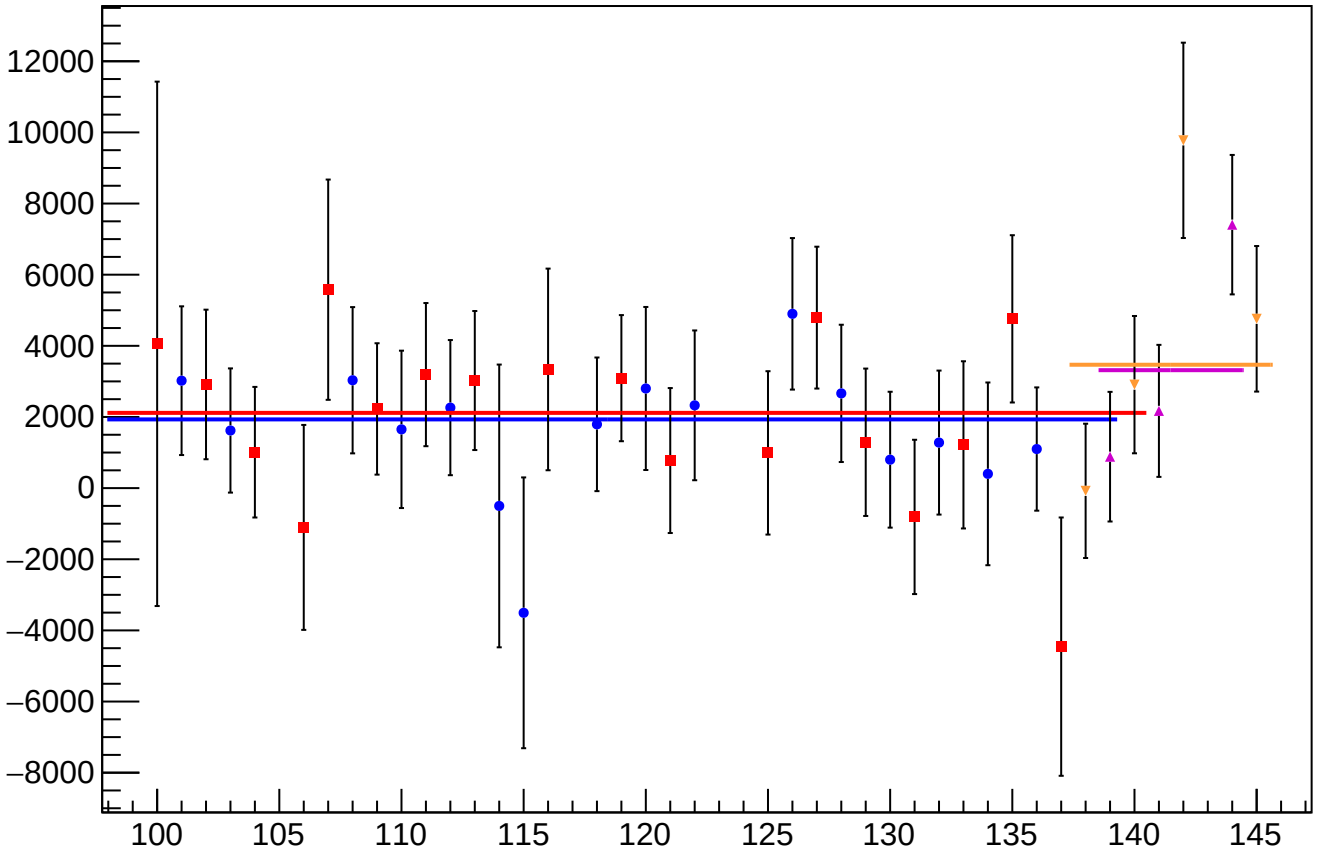
Left: 5342.694+/-1.620 $\chi^2$/NDF: 39704.8/6

Right: 3351.061+/-0.639 $\chi^2$/NDF: 1300981.9/33

In: 3641.603+/-0.854 $\chi^2$/NDF:1412321.4/18

Out: 3598.007+/-0.828 $\chi^2$/NDF:1234931.6/21

All: 3619.119+/-0.594 $\chi^2$/NDF: 2648596.7/40




Right In: 1931.537+/-527.135 $\chi^2$/NDF: 6.4/15

Left Out: 3468.338+/-1042.249 $\chi^2$/NDF:9.3/3

Right Out: 2115.195+/-528.802 $\chi^2$/NDF: 13.2/17

Left In: 3315.394+/-1083.526 $\chi^2$/NDF:6.5/2

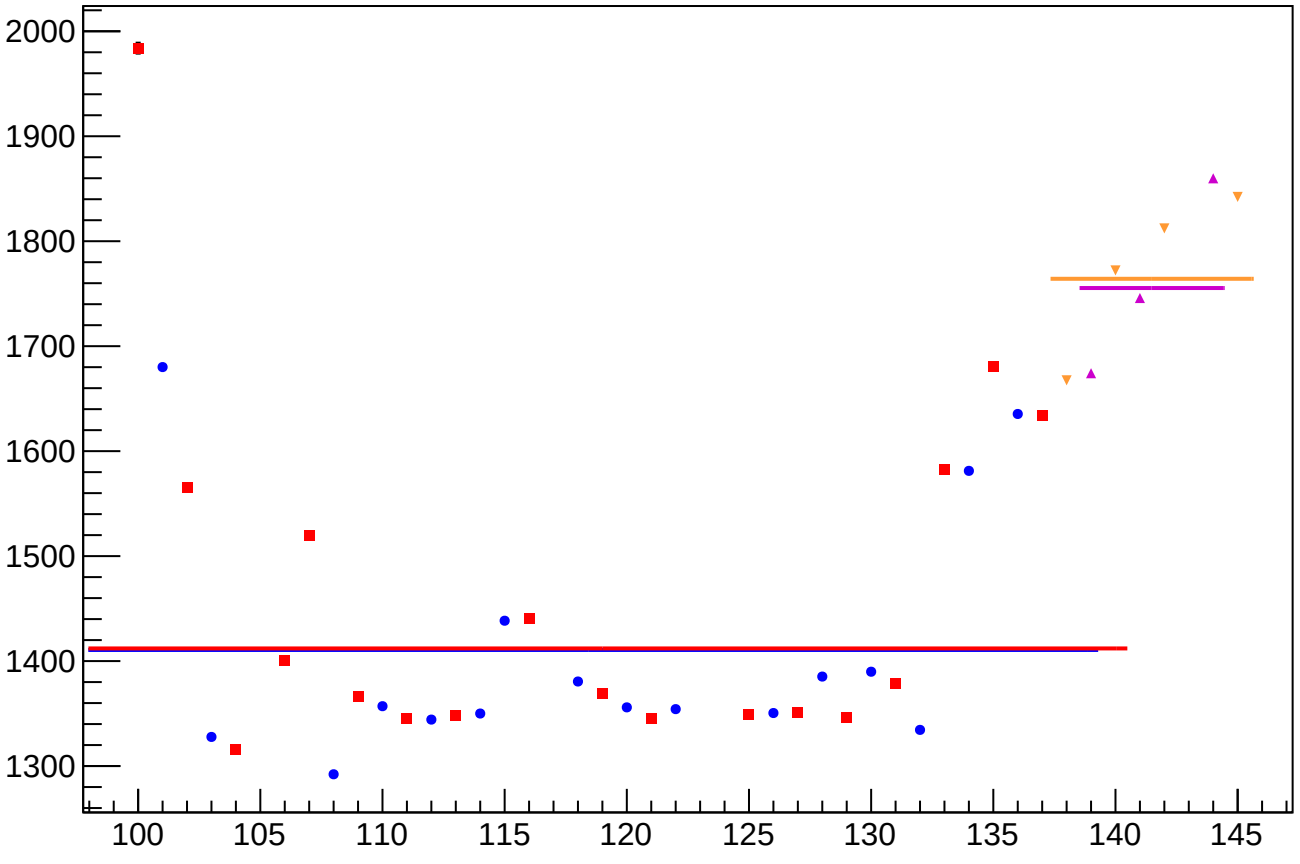
Left: 3394.835+/-751.150 $\chi^2$/NDF: 15.8/6

Right: 2023.076+/-373.329 $\chi^2$/NDF: 19.6/33

In: 2196.386+/-474.016 $\chi^2$/NDF:14.2/18

Out: 2392.212+/-471.577 $\chi^2$/NDF:23.8/21

All: 2294.804+/-334.315 $\chi^2$/NDF: 38.1/40




Right In: 1410.595+/-0.373 $\chi^2$/NDF: 99150.0/15

Left Out: 1764.199+/-0.737 $\chi^2$/NDF:8803.6/3

Right Out: 1412.048+/-0.373 $\chi^2$/NDF: 89704.5/17

Left In: 1755.394+/-0.766 $\chi^2$/NDF:9706.3/2

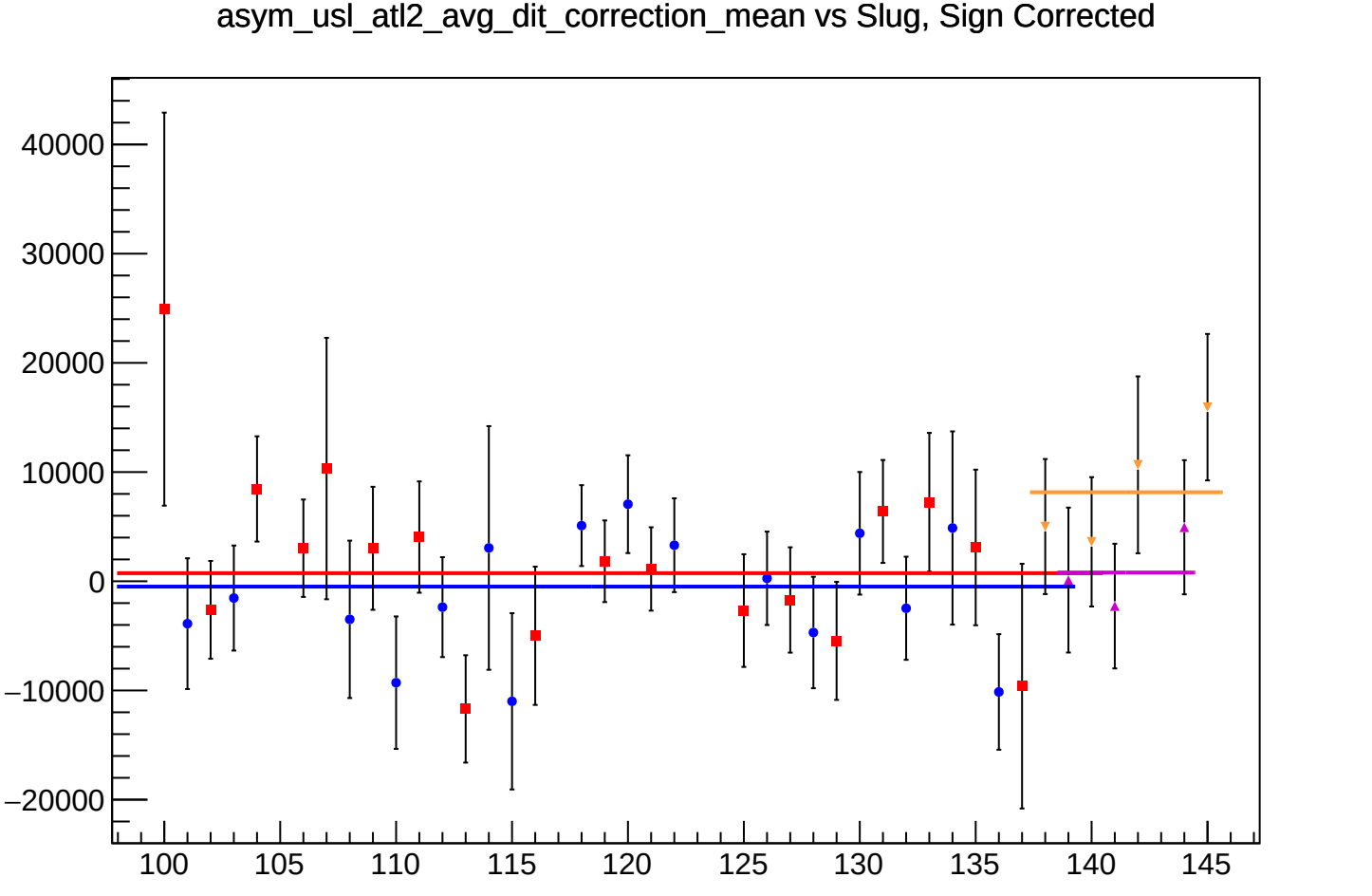
Left: 1759.967+/-0.531 $\chi^2$/NDF: 18578.5/6

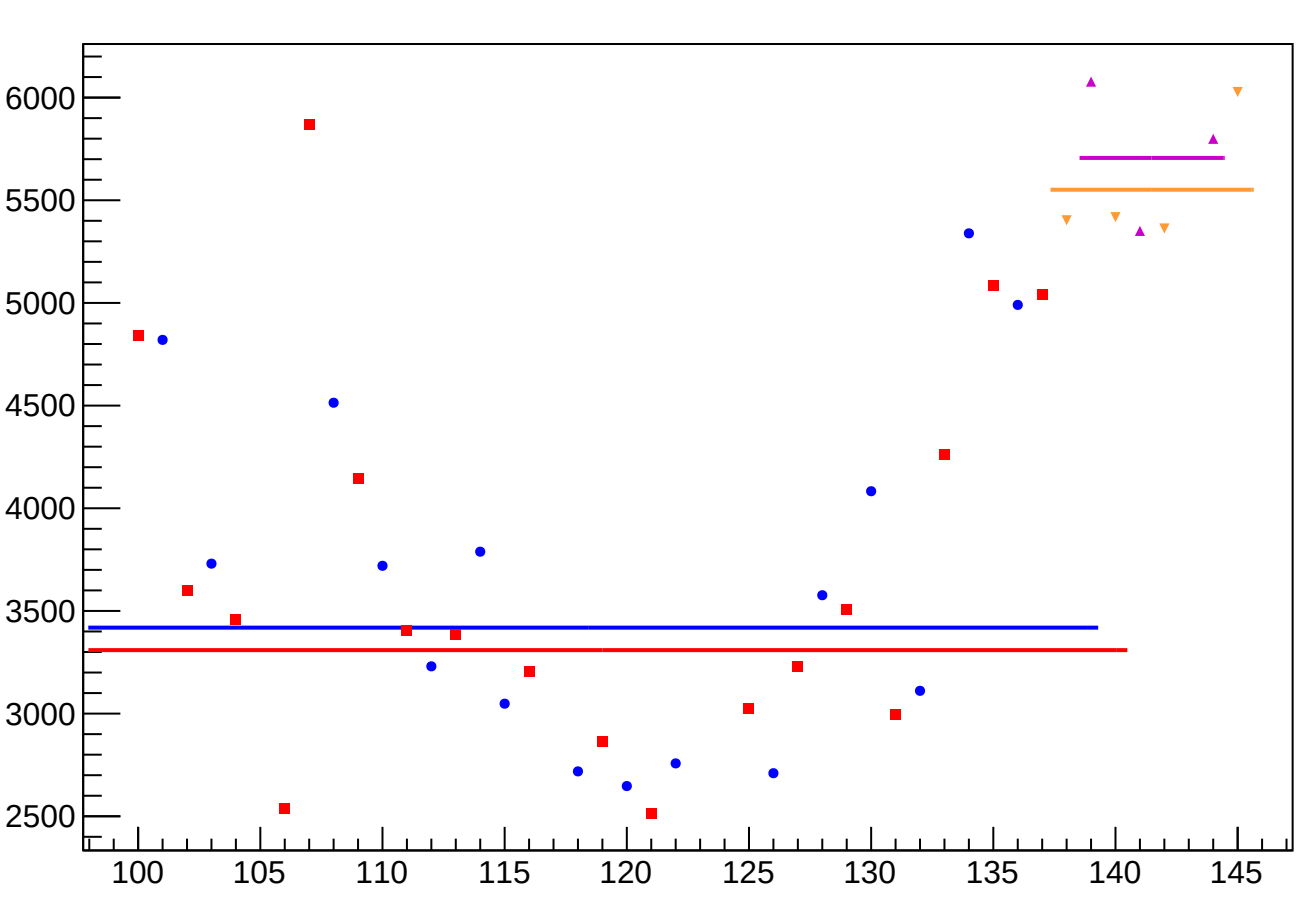
Right: 1411.321+/-0.264 $\chi^2$/NDF: 188862.1/33

In: 1476.585+/-0.335 $\chi^2$/NDF:272622.6/18

Out: 1483.835+/-0.333 $\chi^2$/NDF:280284.3/21

All: 1480.236+/-0.236 $\chi^2$/NDF: 553142.5/40


asym_usl_atl2_avg_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -489.402+/-1308.692 χ²/NDF: 15.8/15
Left Out: 8150.597+/-3294.270 χ²/NDF:2.3/3
Right Out: 740.592+/-1247.947 χ²/NDF: 19.2/17
Left In: 798.652+/-3538.251 χ²/NDF:0.8/2
Left: 4736.820+/-2411.044 χ²/NDF: 5.4/6
Right: 154.802+/-903.143 χ²/NDF: 35.5/33
In: -334.397+/-1227.424 χ²/NDF:16.7/18
Out: 1670.529+/-1167.016 χ²/NDF:25.9/21
All: 718.615+/-845.754 χ²/NDF: 44.0/40




Right In: 3418.701+/-0.925 $\chi^2$/NDF: 721215.3/15

Left Out: 5551.337+/-2.329 $\chi^2$/NDF:13343.6/3

Right Out: 3309.112+/-0.882 $\chi^2$/NDF: 571940.6/17

Left In: 5706.167+/-2.502 $\chi^2$/NDF:14480.3/2

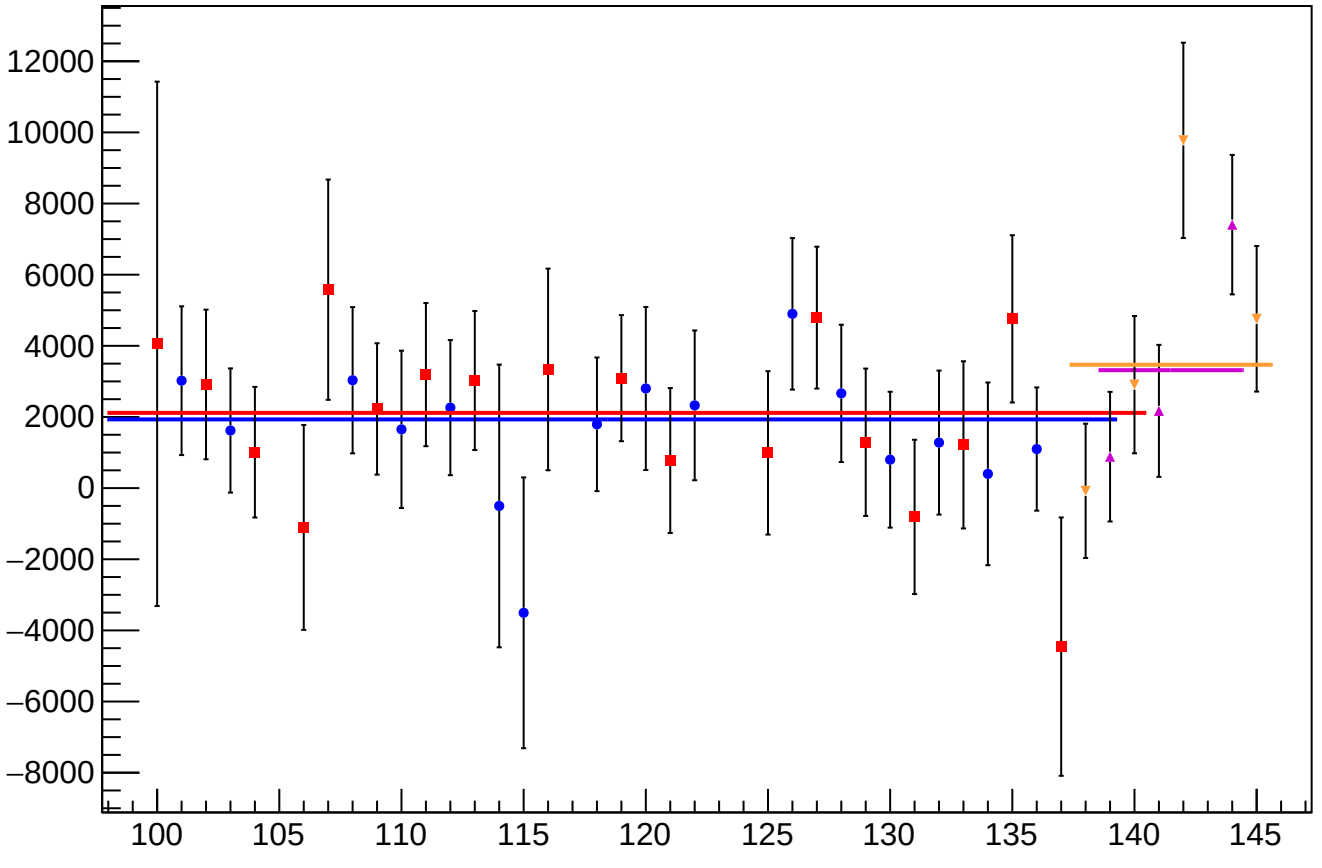
Left: 5623.230+/-1.705 $\chi^2$/NDF: 29875.3/6

Right: 3361.304+/-0.639 $\chi^2$/NDF: 1300501.2/33

In: 3693.976+/-0.868 $\chi^2$/NDF:1471015.9/18

Out: 3590.506+/-0.825 $\chi^2$/NDF:1395556.6/21

All: 3639.632+/-0.598 $\chi^2$/NDF: 2874037.1/40




Right In: 1931.538+/-527.135 $\chi^2$/NDF: 6.4/15

Left Out: 3468.358+/-1042.250 $\chi^2$/NDF:9.3/3

Right Out: 2115.195+/-528.802 $\chi^2$/NDF: 13.2/17

Left In: 3315.396+/-1083.527 $\chi^2$/NDF:6.5/2

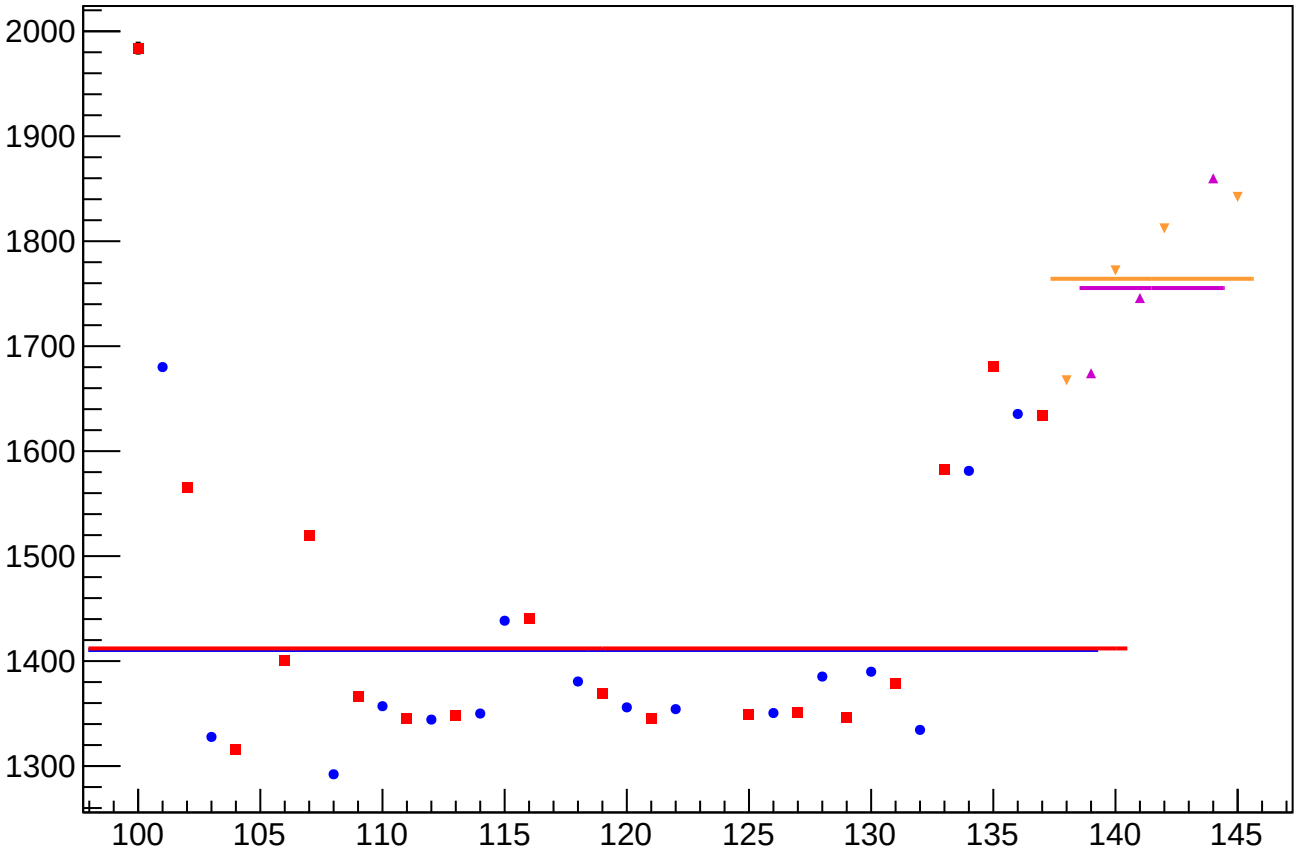
Left: 3394.846+/-751.151 $\chi^2$/NDF: 15.8/6

Right: 2023.076+/-373.329 $\chi^2$/NDF: 19.6/33

In: 2196.387+/-474.016 $\chi^2$/NDF:14.2/18

Out: 2392.216+/-471.578 $\chi^2$/NDF:23.8/21

All: 2294.806+/-334.315 $\chi^2$/NDF: 38.1/40




Right In: 1410.595+/-0.373 $\chi^2$/NDF: 99150.0/15

Left Out: 1764.200+/-0.737 $\chi^2$/NDF:8803.9/3

Right Out: 1412.048+/-0.373 $\chi^2$/NDF: 89704.6/17

Left In: 1755.396+/-0.766 $\chi^2$/NDF:9706.4/2

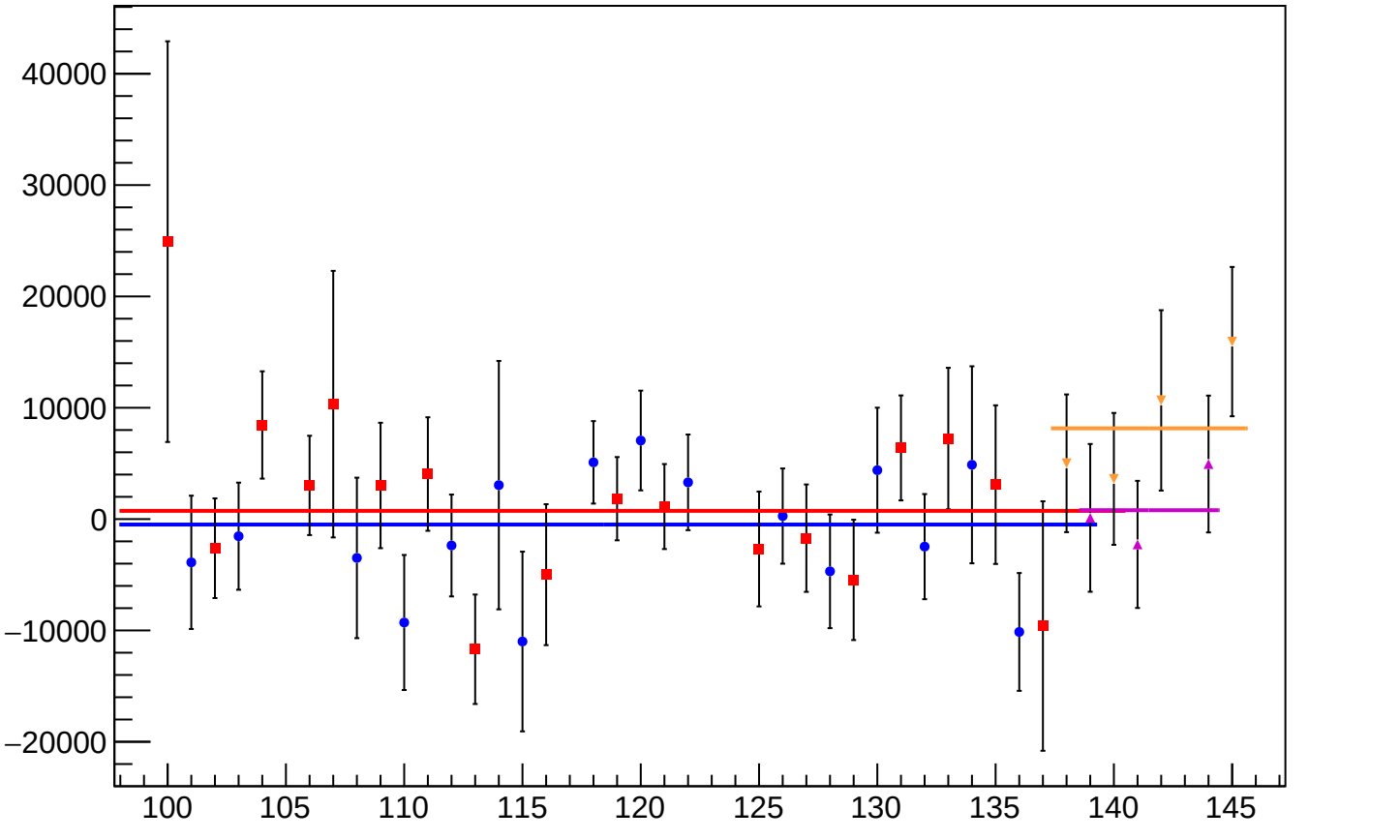
Left: 1759.969+/-0.531 $\chi^2$/NDF: 18578.9/6

Right: 1411.321+/-0.264 $\chi^2$/NDF: 188862.2/33

In: 1476.585+/-0.335 $\chi^2$/NDF:272624.0/18

Out: 1483.835+/-0.333 $\chi^2$/NDF:280286.4/21

All: 1480.236+/-0.236 $\chi^2$/NDF: 553146.0/40




Right In: -489.395+/-1308.688 $\chi^2$/NDF: 15.8/15

Left Out: 8150.623+/-3294.278 $\chi^2$/NDF:2.3/3

Right Out: 740.594+/-1247.944 $\chi^2$/NDF: 19.2/17

Left In: 798.655+/-3538.259 $\chi^2$/NDF:0.8/2

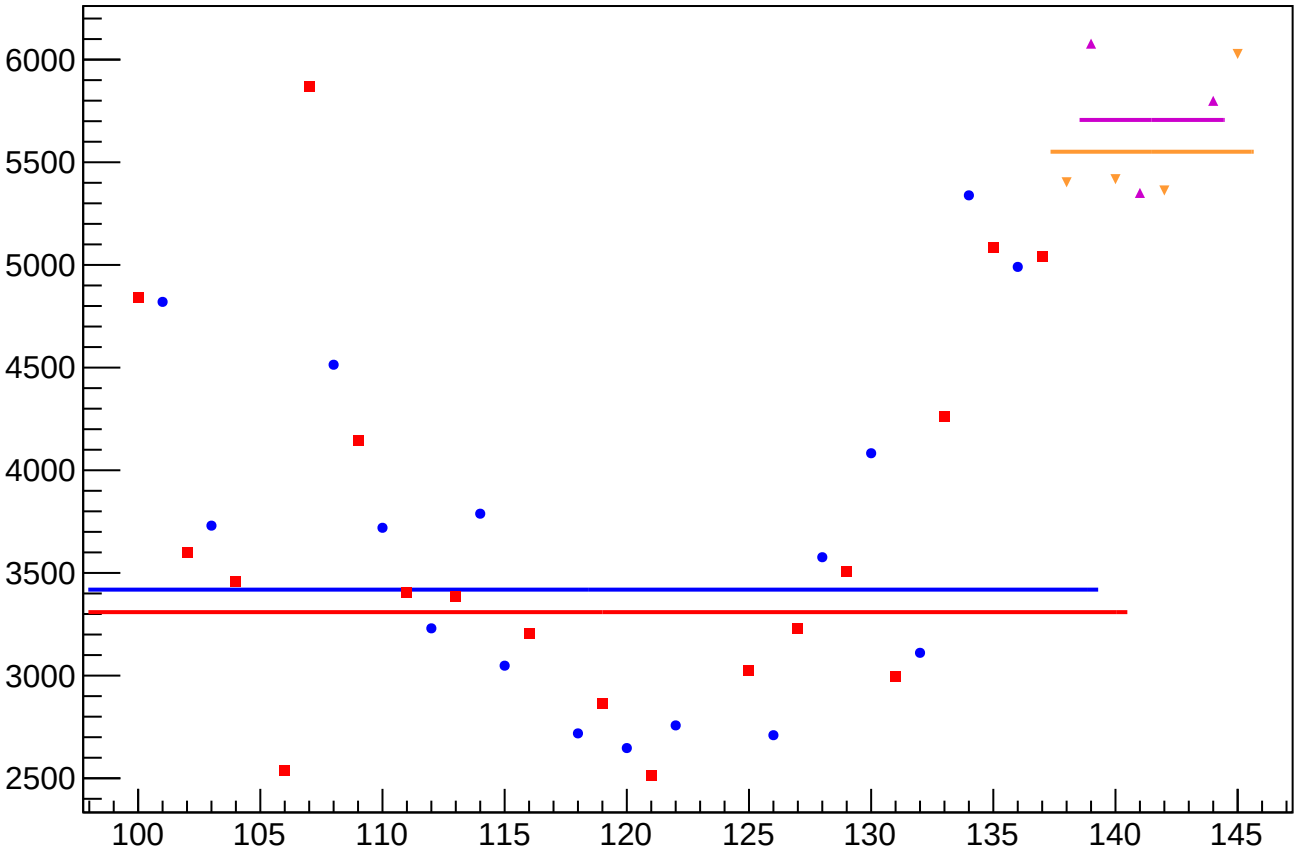
Left: 4736.834+/-2411.050 $\chi^2$/NDF: 5.4/6

Right: 154.807+/-903.141 $\chi^2$/NDF: 35.5/33

In: -334.392+/-1227.421 $\chi^2$/NDF:16.7/18

Out: 1670.526+/-1167.013 $\chi^2$/NDF:25.9/21

All: 718.616+/-845.753 $\chi^2$/NDF: 44.0/40




Right In: 3418.690+/-0.925 $\chi^2$/NDF: 721223.9/15

Left Out: 5551.351+/-2.329 $\chi^2$/NDF:13343.6/3

Right Out: 3309.102+/-0.882 $\chi^2$/NDF: 571944.5/17

Left In: 5706.179+/-2.502 $\chi^2$/NDF:14480.7/2

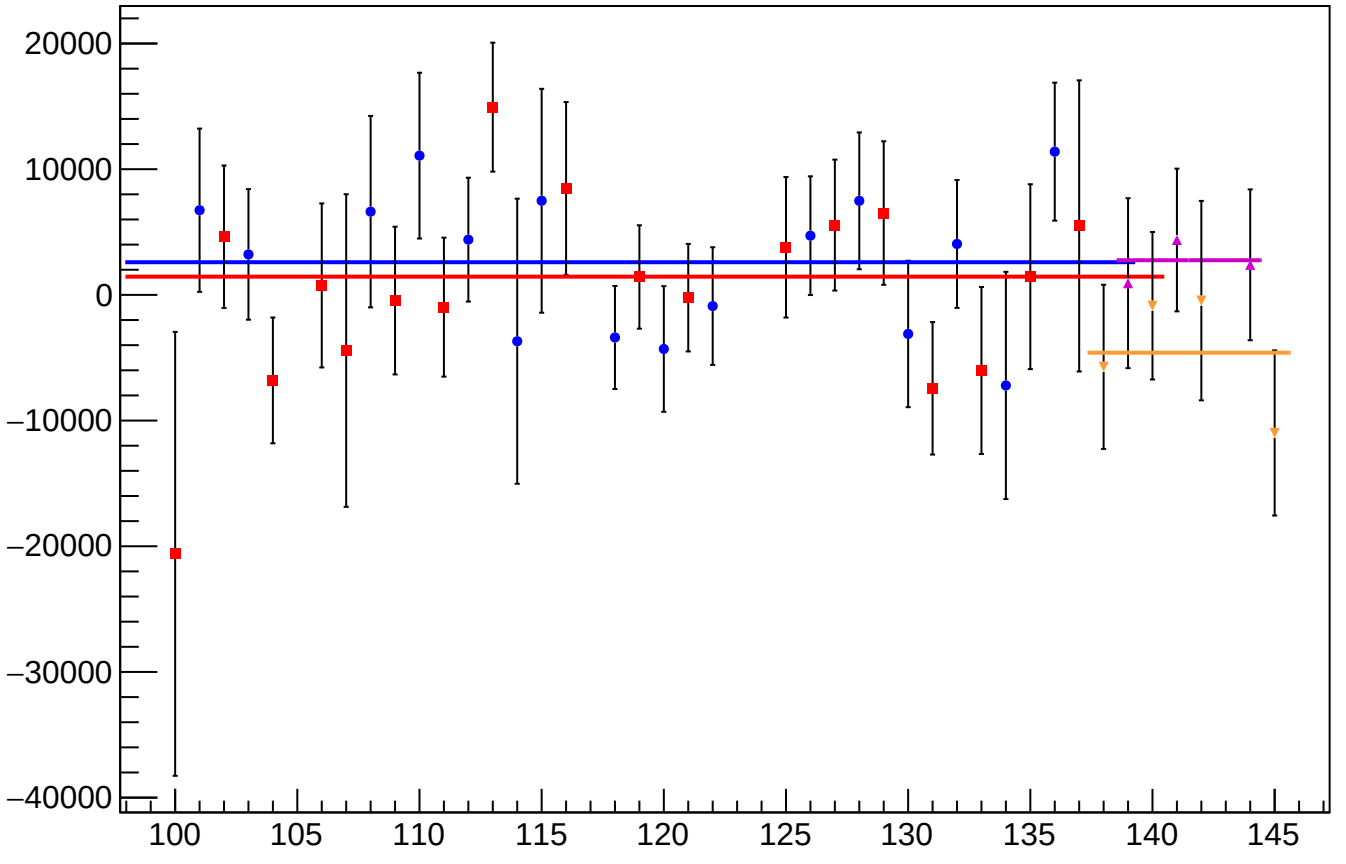
Left: 5623.244+/-1.705 $\chi^2$/NDF: 29875.7/6

Right: 3361.294+/-0.639 $\chi^2$/NDF: 1300513.6/33

In: 3693.965+/-0.868 $\chi^2$/NDF:1471037.9/18

Out: 3590.496+/-0.825 $\chi^2$/NDF:1395575.1/21

All: 3639.622+/-0.598 $\chi^2$/NDF: 2874077.3/40




Right In: 2599.622+/-1414.499 $\chi^2$/NDF: 13.5/15

Left Out: -4598.511+/-3305.501 $\chi^2$/NDF:1.7/3

Right Out: 1450.418+/-1382.818 $\chi^2$/NDF: 19.0/17

Left In: 2756.342+/-3520.773 $\chi^2$/NDF:0.2/2

Left: -1152.796+/-2409.854 $\chi^2$/NDF: 4.1/6

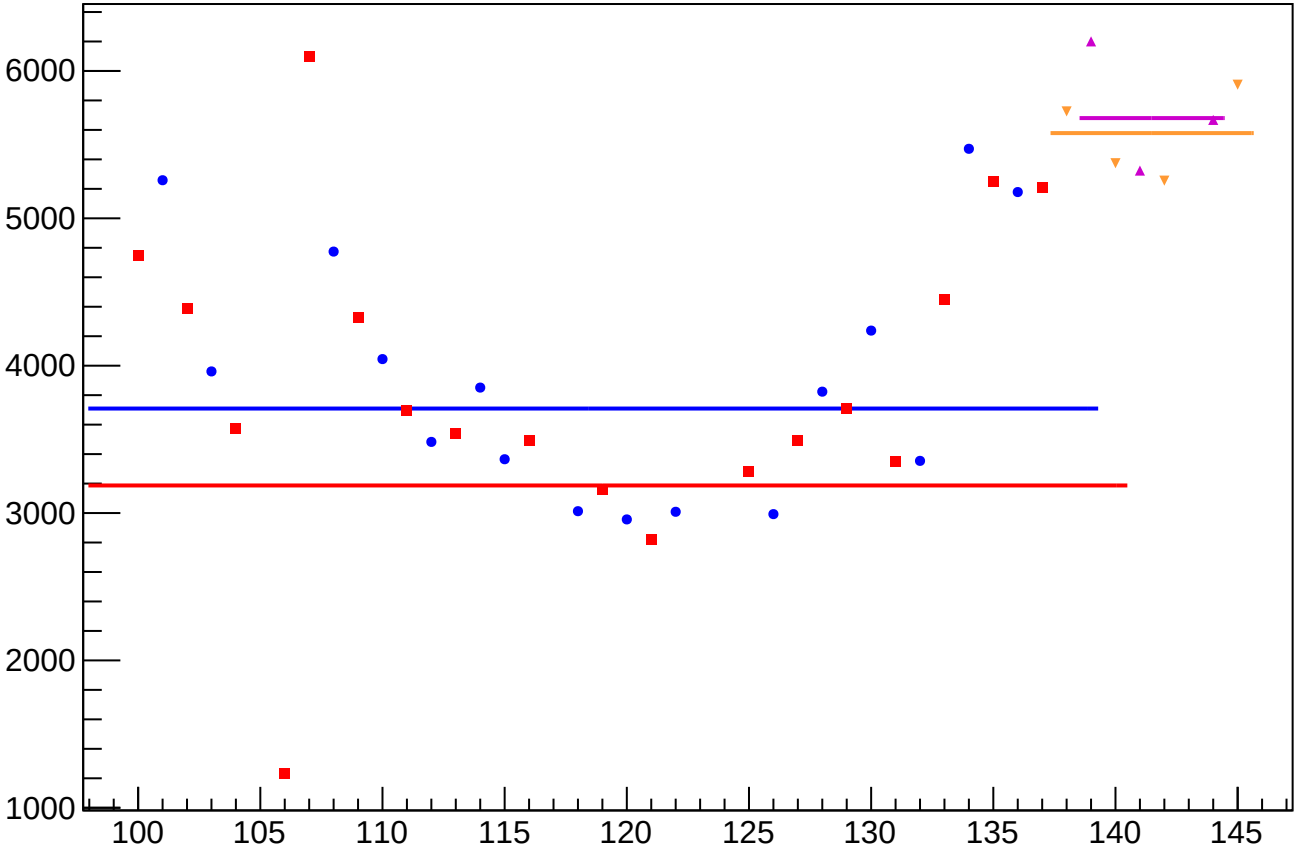
Right: 2012.006+/-988.811 $\chi^2$/NDF: 32.9/33

In: 2621.402+/-1312.532 $\chi^2$/NDF:13.6/18

Out: 549.483+/-1275.689 $\chi^2$/NDF:23.5/21

All: 1555.955+/-914.796 $\chi^2$/NDF: 38.5/40

# asym_usl_atl2_avg_rms vs Slug, Sign Corrected




Right In: 3709.155+/-1.000 $\chi^2$/NDF: 610637.3/15

Left Out: 5578.398+/-2.337 $\chi^2$/NDF:11750.6/3

Right Out: 3187.191+/-0.896 $\chi^2$/NDF: 1610818.1/17

Left In: 5680.204+/-2.490 $\chi^2$/NDF:19738.1/2

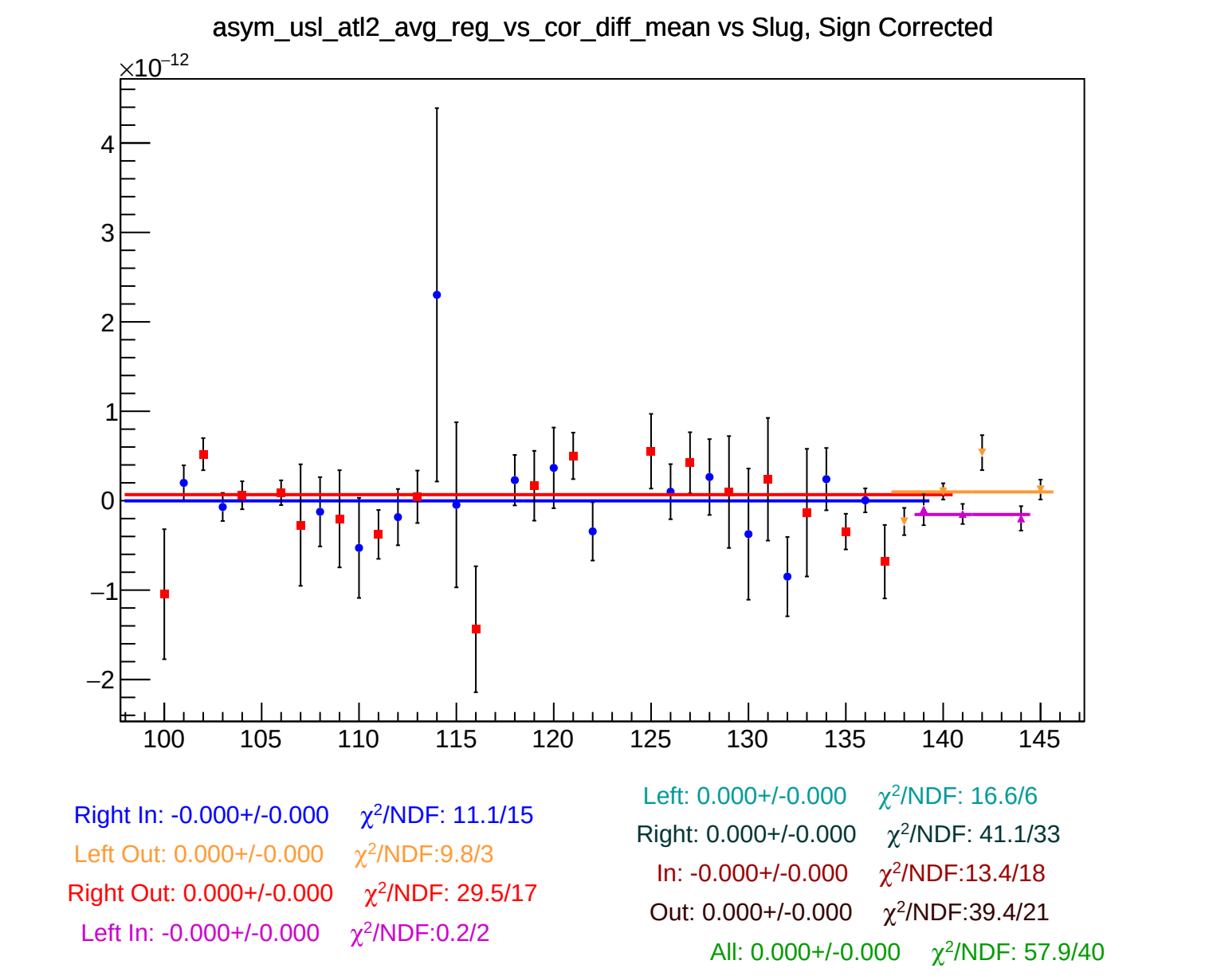
Left: 5626.094+/-1.704 $\chi^2$/NDF: 32377.5/6

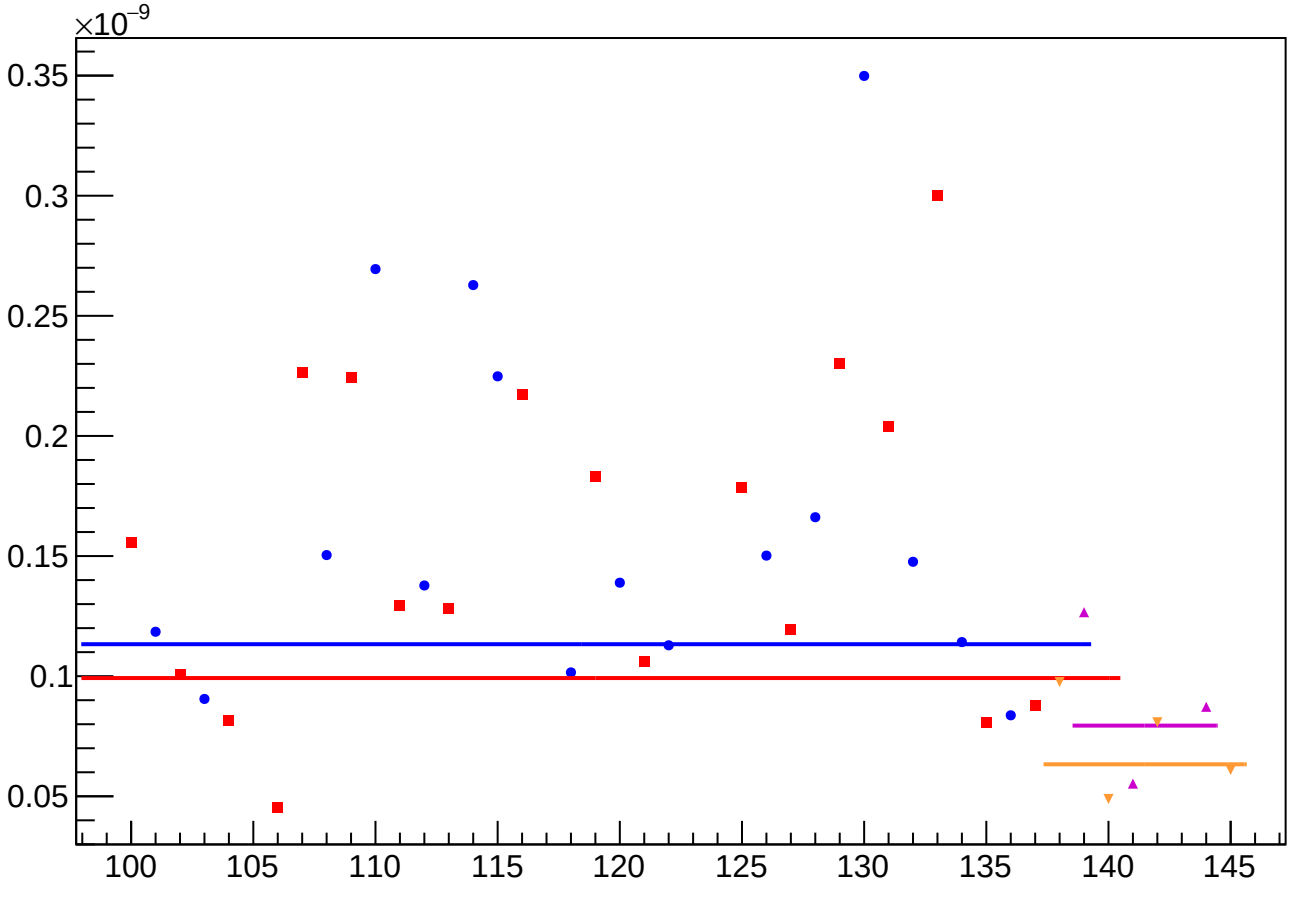
Right: 3419.452+/-0.667 $\chi^2$/NDF: 2372609.3/33

In: 3983.085+/-0.928 $\chi^2$/NDF:1170089.8/18

Out: 3493.301+/-0.836 $\chi^2$/NDF:2535207.7/21

All: 3712.774+/-0.621 $\chi^2$/NDF: 3858999.4/40


asym_usl_atl2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 11.1/15
Left Out: 0.000+/-0.000 χ²/NDF:9.8/3
Right Out: 0.000+/-0.000 χ²/NDF: 29.5/17
Left In: -0.000+/-0.000 χ²/NDF:0.2/2
Left: 0.000+/-0.000 χ²/NDF: 16.6/6
Right: 0.000+/-0.000 χ²/NDF: 41.1/33
In: -0.000+/-0.000 χ²/NDF:13.4/18
Out: 0.000+/-0.000 χ²/NDF:39.4/21
All: 0.000+/-0.000 χ²/NDF: 57.9/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 655766.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:168039.7/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1100854.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:239789.7/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 460924.1/6

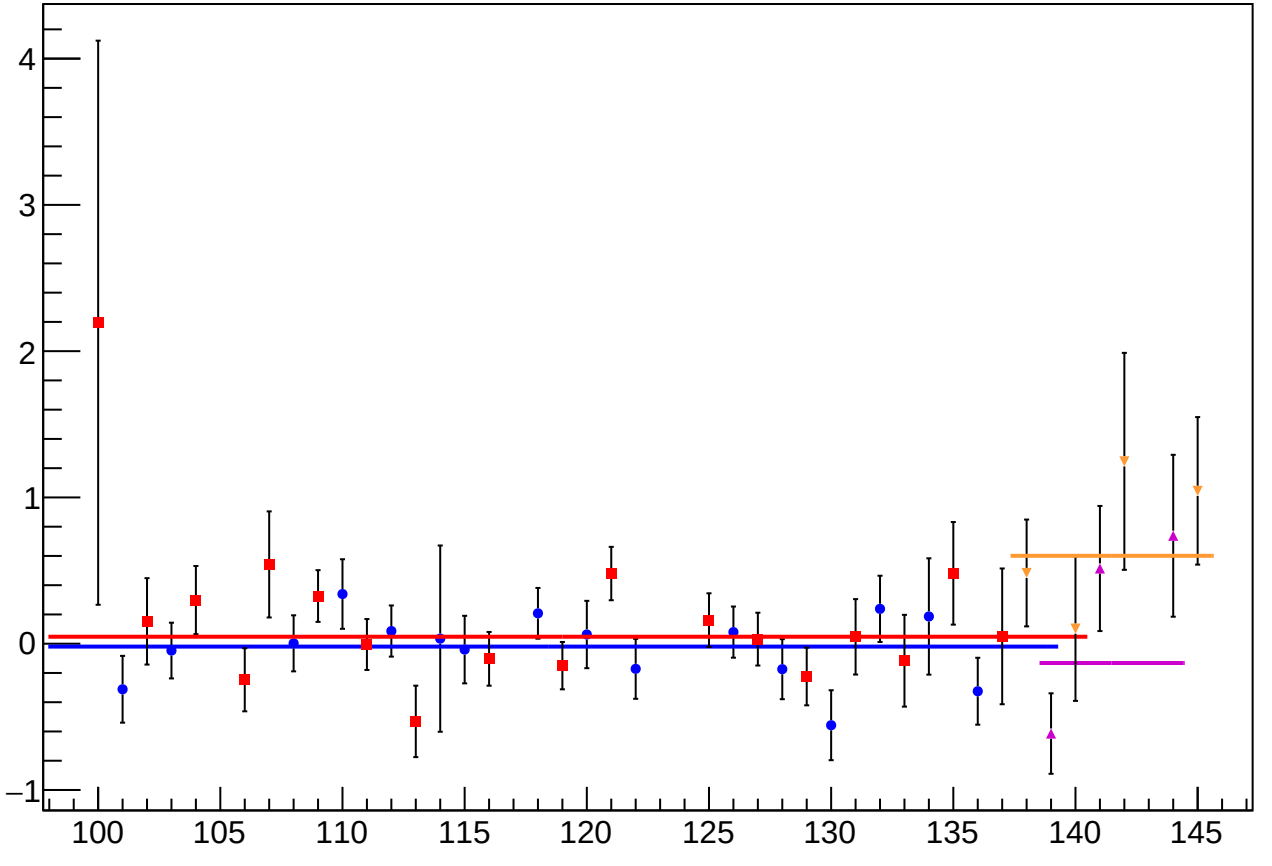
Right: 0.000+/-0.000 $\chi^2$/NDF: 1799459.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:1103525.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:1590864.9/21

All: 0.000+/-0.000 $\chi^2$/NDF: 2834881.6/40

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: 0.601+/-0.240 $\chi^2$/NDF:2.7/3

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.132+/-0.213 $\chi^2$/NDF:7.8/2

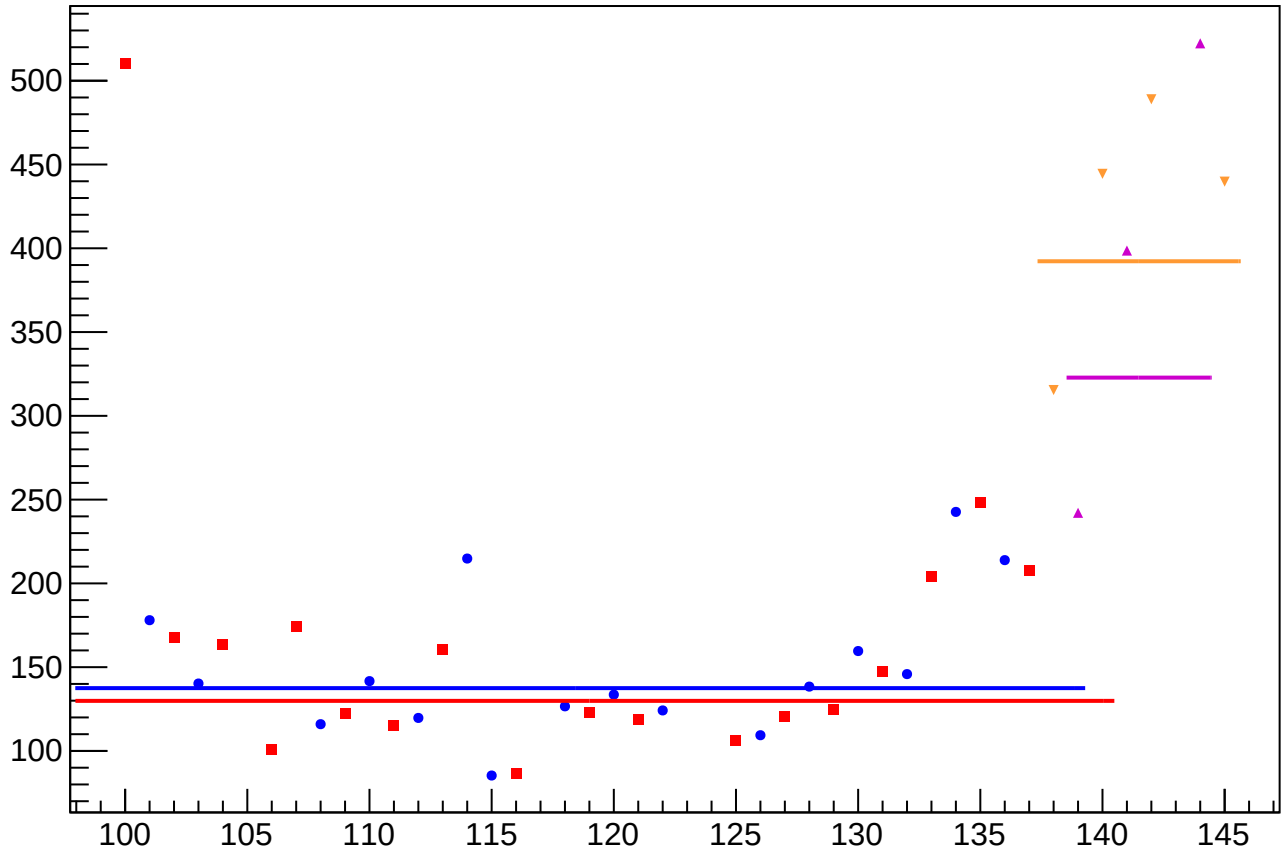
Left: 0.192+/-0.160 $\chi^2$/NDF: 15.7/6

Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.027+/-0.053 $\chi^2$/NDF:24.1/18

Out: 0.073+/-0.051 $\chi^2$/NDF:34.0/21

All: 0.024+/-0.037 $\chi^2$/NDF: 59.9/40




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692947.9/15

Left Out: 392.259+/-0.170 $\chi^2$/NDF:162662.1/3

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833983.9/17

Left In: 322.812+/-0.151 $\chi^2$/NDF:494762.8/2

Left: 353.472+/-0.113 $\chi^2$/NDF: 750876.0/6

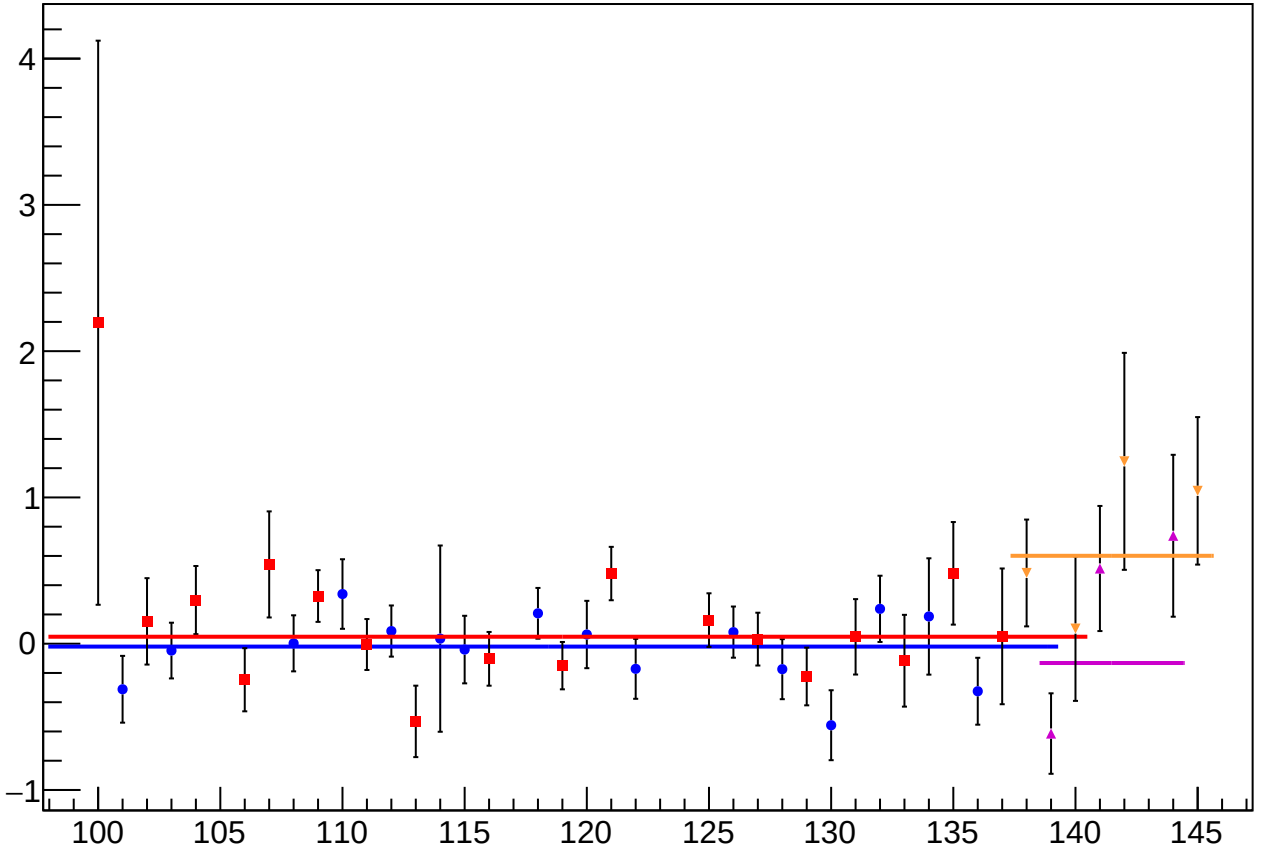
Right: 133.568+/-0.027 $\chi^2$/NDF: 1547246.7/33

In: 148.718+/-0.037 $\chi^2$/NDF:2603743.3/18

Out: 141.857+/-0.036 $\chi^2$/NDF:3276003.5/21

All: 145.205+/-0.026 $\chi^2$/NDF: 5897212.1/40

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: 0.601+/-0.240 $\chi^2$/NDF:2.7/3

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.132+/-0.213 $\chi^2$/NDF:7.8/2

Left: 0.192+/-0.160 $\chi^2$/NDF: 15.7/6

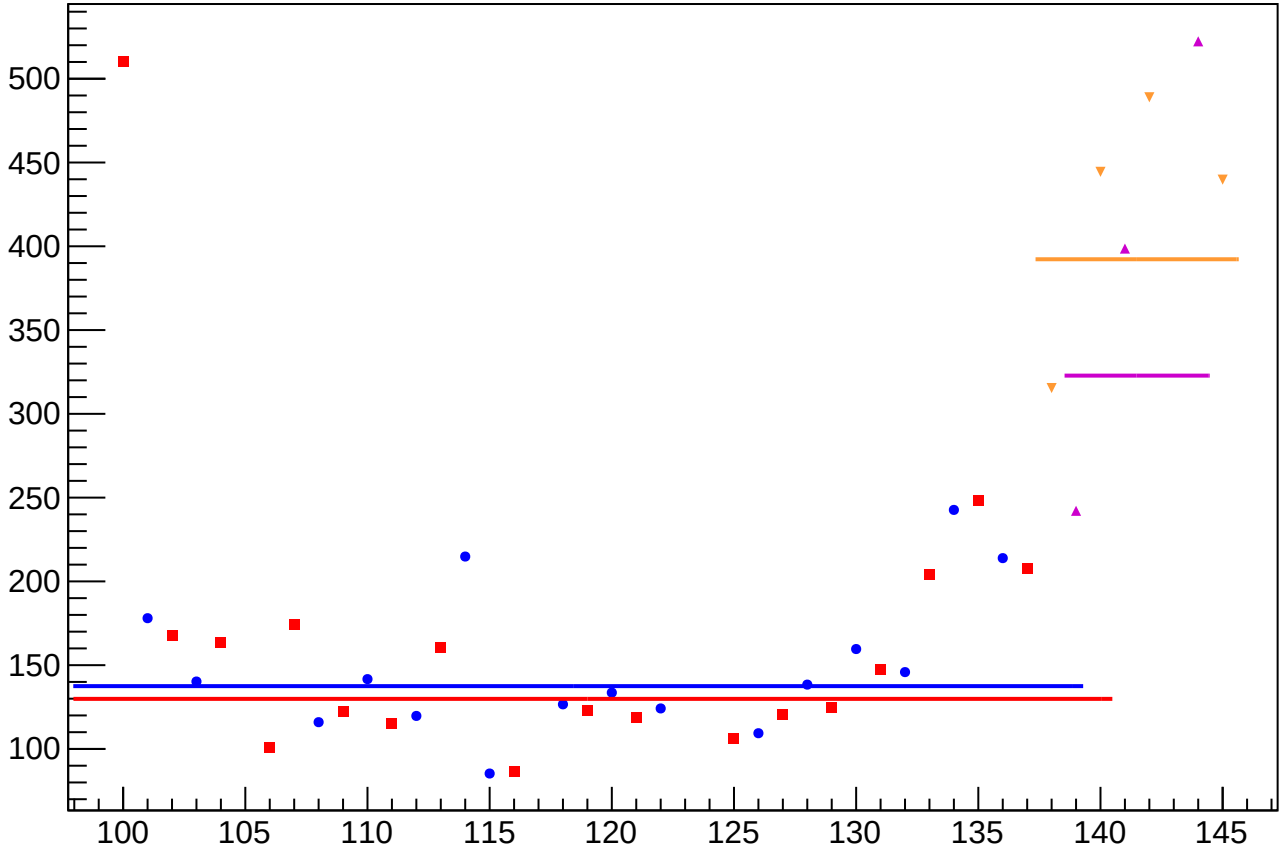
Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.027+/-0.053 $\chi^2$/NDF:24.1/18

Out: 0.073+/-0.051 $\chi^2$/NDF:34.0/21

All: 0.024+/-0.037 $\chi^2$/NDF: 59.9/40

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692947.9/15

Left Out: 392.259+/-0.170 $\chi^2$/NDF:162662.1/3

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833983.9/17

Left In: 322.812+/-0.151 $\chi^2$/NDF:494762.8/2

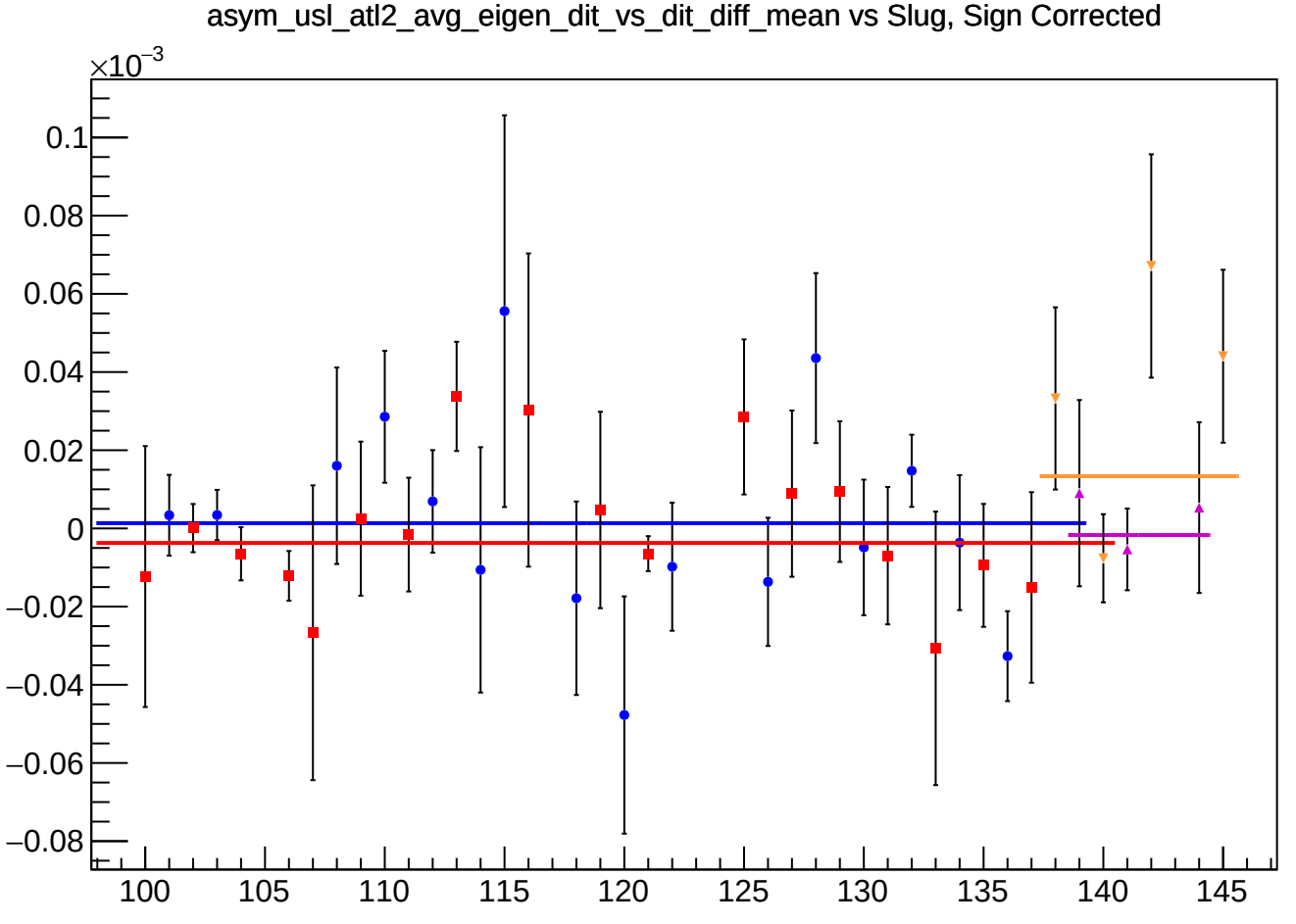
Left: 353.472+/-0.113 $\chi^2$/NDF: 750876.0/6

Right: 133.568+/-0.027 $\chi^2$/NDF: 1547246.7/33

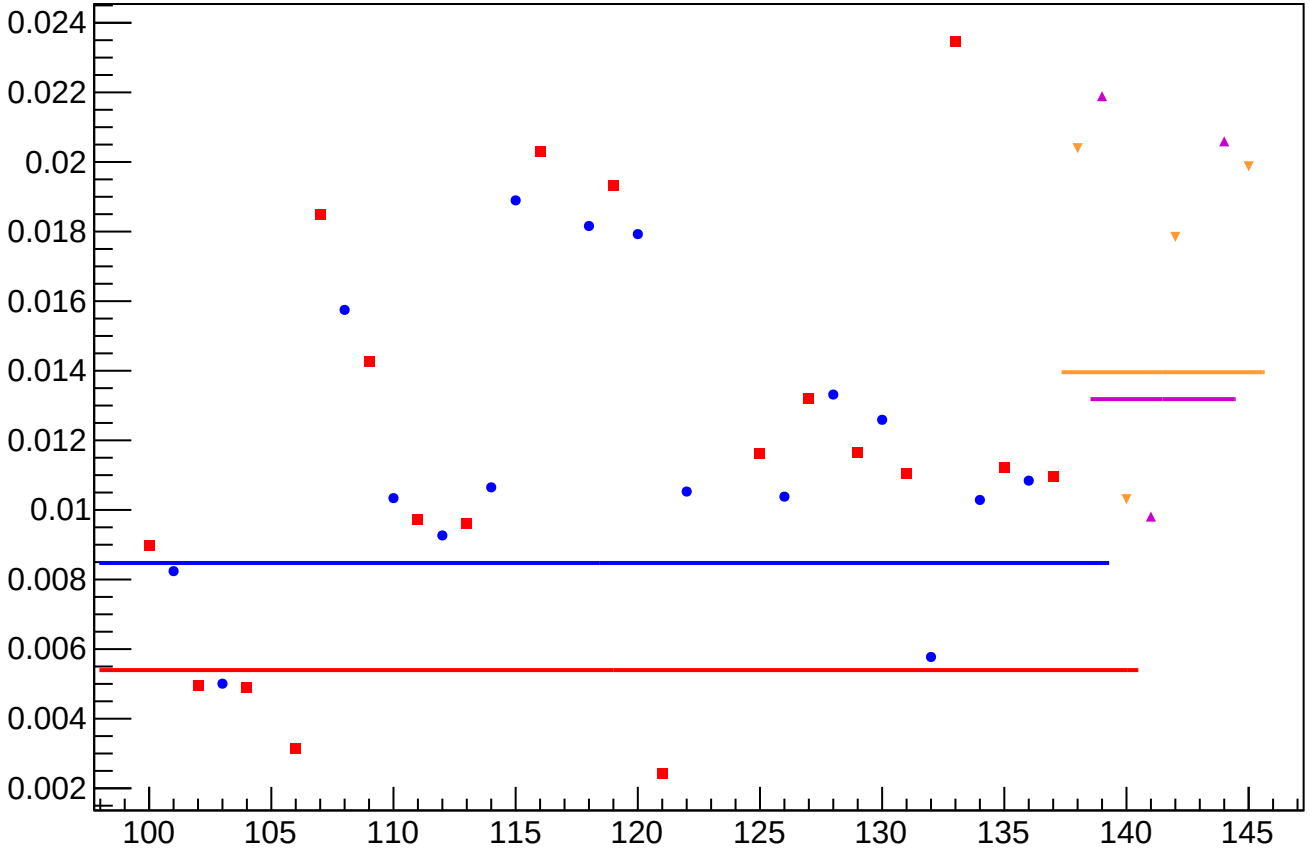
In: 148.718+/-0.037 $\chi^2$/NDF:2603743.3/18

Out: 141.857+/-0.036 $\chi^2$/NDF:3276003.5/21

All: 145.205+/-0.026 $\chi^2$/NDF: 5897212.1/40


asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 23.9/15
Left Out: 0.000+/-0.000 χ²/NDF:9.7/3
Right Out: -0.000+/-0.000 χ²/NDF: 15.8/17
Left In: -0.000+/-0.000 χ²/NDF:0.4/2
Left: 0.000+/-0.000 χ²/NDF: 11.6/6
Right: -0.000+/-0.000 χ²/NDF: 41.1/33
In: 0.000+/-0.000 χ²/NDF:24.5/18
Out: -0.000+/-0.000 χ²/NDF:28.9/21
All: -0.000+/-0.000 χ²/NDF: 54.1/40

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1925998.4/15

Left Out: 0.014+/-0.000 $\chi^2$/NDF:542556.5/3

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 4909074.3/17

Left In: 0.013+/-0.000 $\chi^2$/NDF:705593.8/2

Left: 0.014+/-0.000 $\chi^2$/NDF: 1255928.5/6

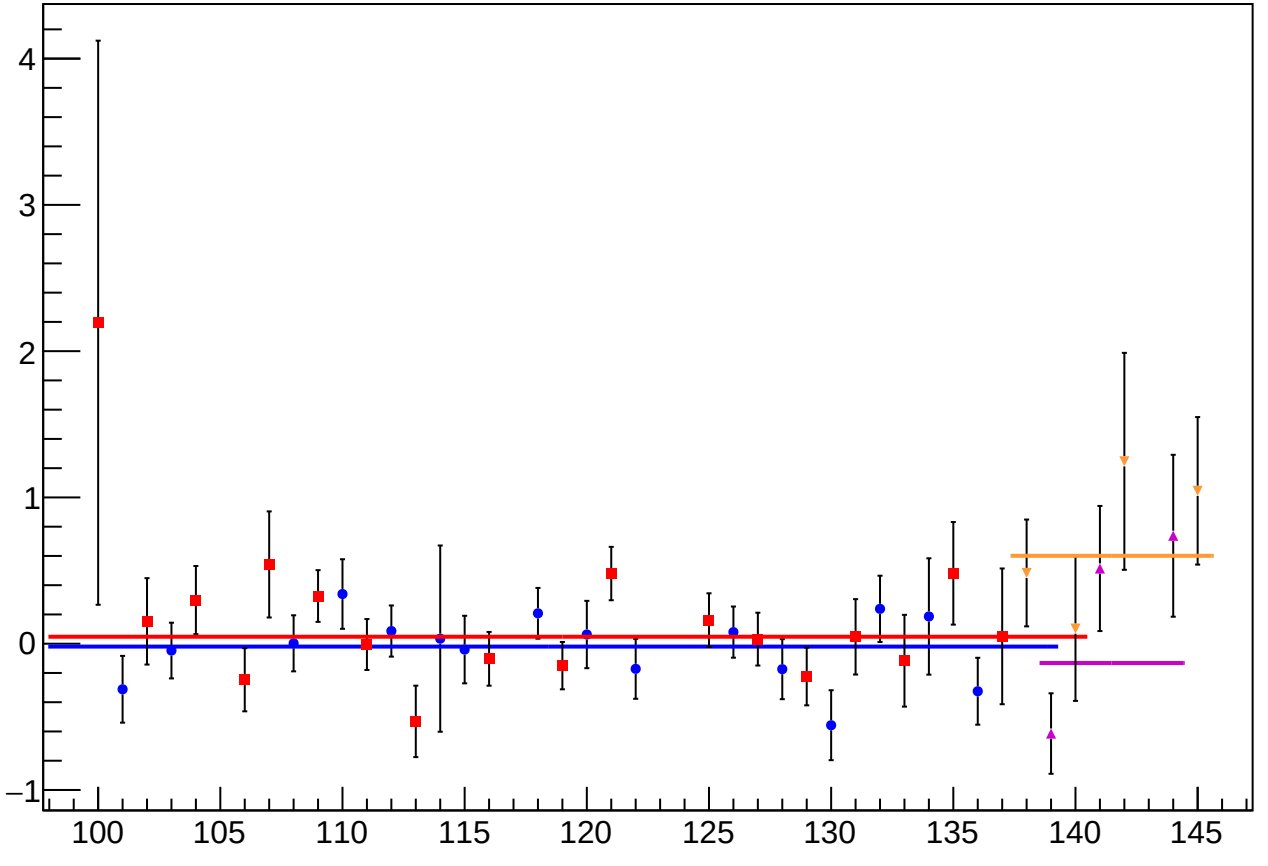
Right: 0.006+/-0.000 $\chi^2$/NDF: 7872620.7/33

In: 0.009+/-0.000 $\chi^2$/NDF:3130942.2/18

Out: 0.006+/-0.000 $\chi^2$/NDF:7209000.1/21

All: 0.007+/-0.000 $\chi^2$/NDF: 11492093.3/40

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: 0.601+/-0.240 $\chi^2$/NDF:2.7/3

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.132+/-0.213 $\chi^2$/NDF:7.8/2

Left: 0.192+/-0.160 $\chi^2$/NDF: 15.7/6

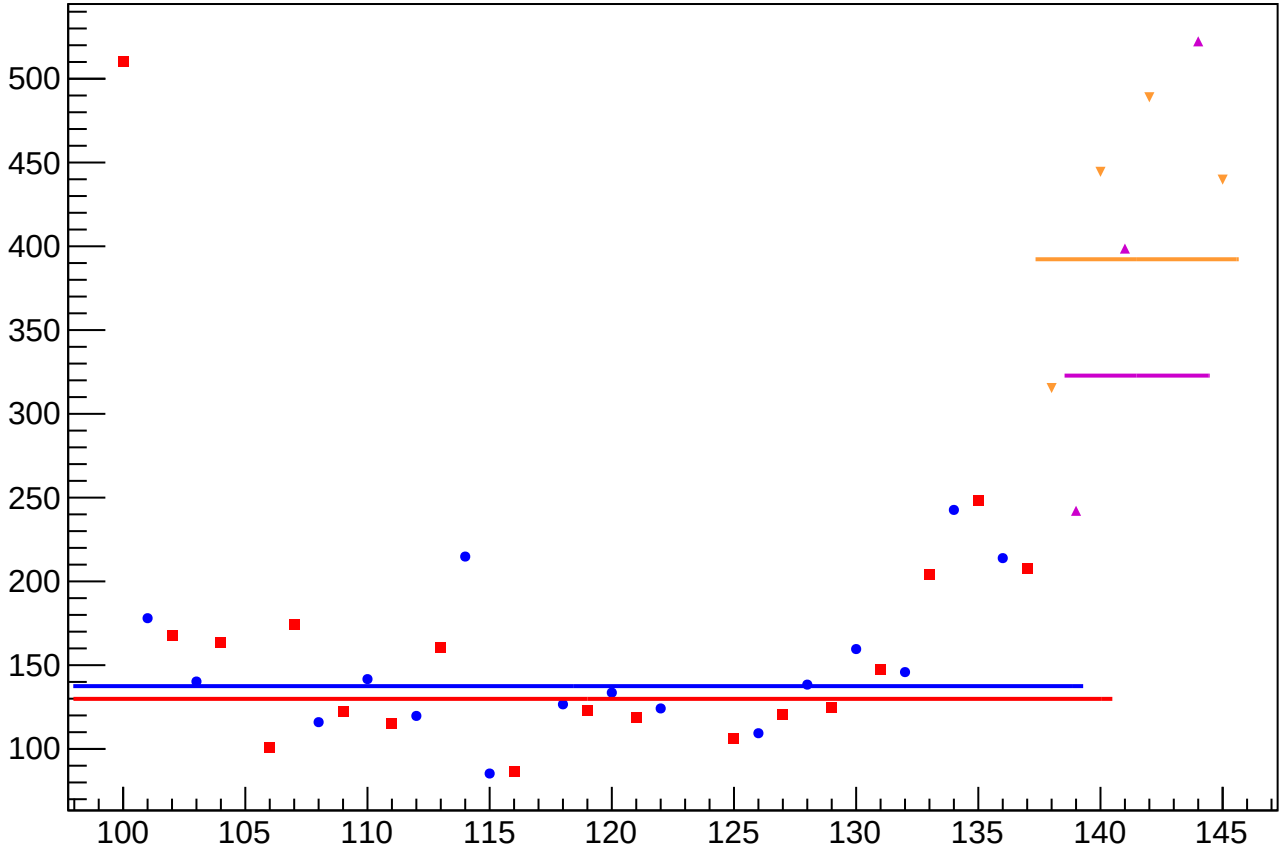
Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.027+/-0.053 $\chi^2$/NDF:24.1/18

Out: 0.073+/-0.051 $\chi^2$/NDF:34.0/21

All: 0.024+/-0.037 $\chi^2$/NDF: 59.9/40

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 137.492+/-0.038 $\chi^2$/NDF: 692923.1/15

Left Out: 392.264+/-0.170 $\chi^2$/NDF:162677.2/3

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833937.8/17

Left In: 322.821+/-0.151 $\chi^2$/NDF:494742.9/2

Left: 353.479+/-0.113 $\chi^2$/NDF: 750860.1/6

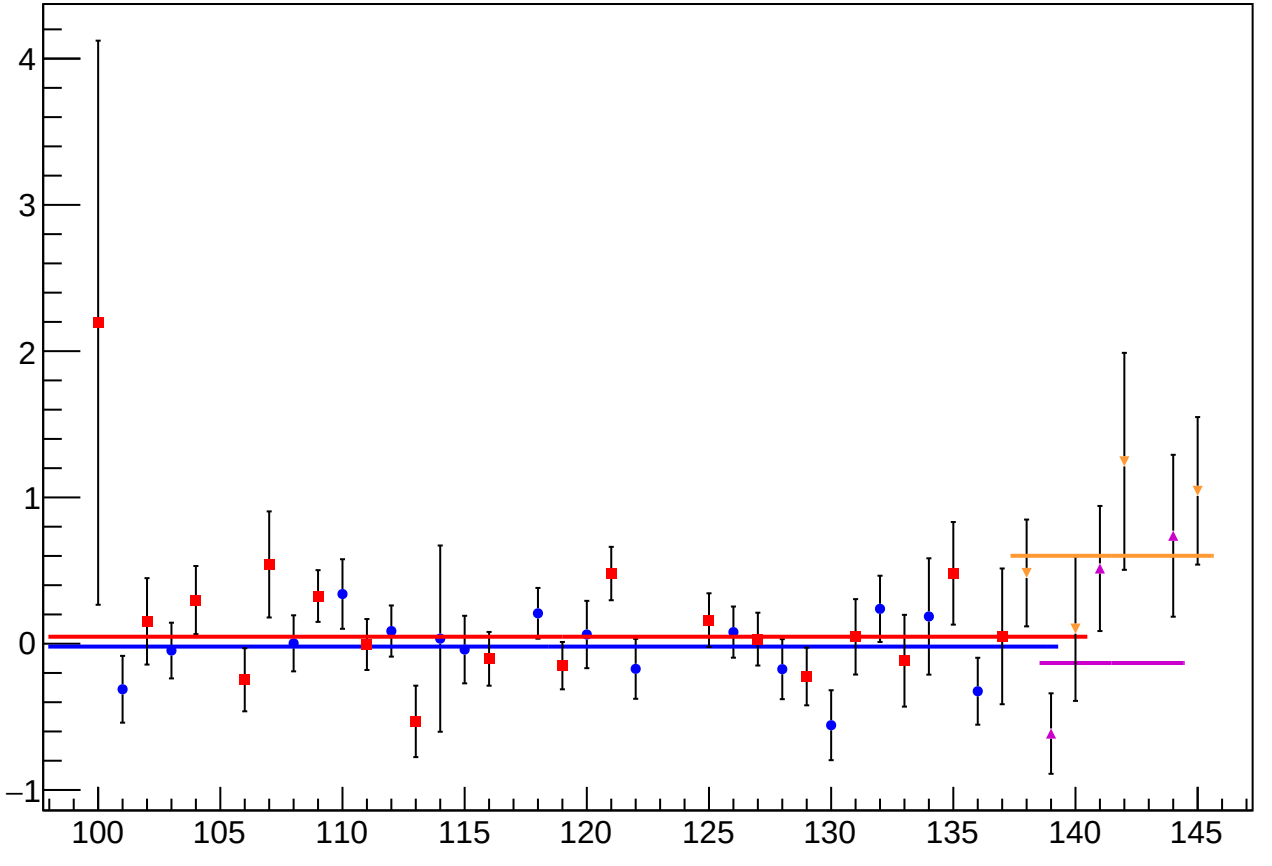
Right: 133.568+/-0.027 $\chi^2$/NDF: 1547174.9/33

In: 148.718+/-0.037 $\chi^2$/NDF:2603763.4/18

Out: 141.857+/-0.036 $\chi^2$/NDF:3276002.9/21

All: 145.204+/-0.026 $\chi^2$/NDF: 5897231.1/40

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: 0.601+/-0.240 $\chi^2$/NDF:2.7/3

Right Out: 0.048+/-0.052 $\chi^2$/NDF: 26.3/17

Left In: -0.132+/-0.213 $\chi^2$/NDF:7.8/2

Left: 0.192+/-0.160 $\chi^2$/NDF: 15.7/6

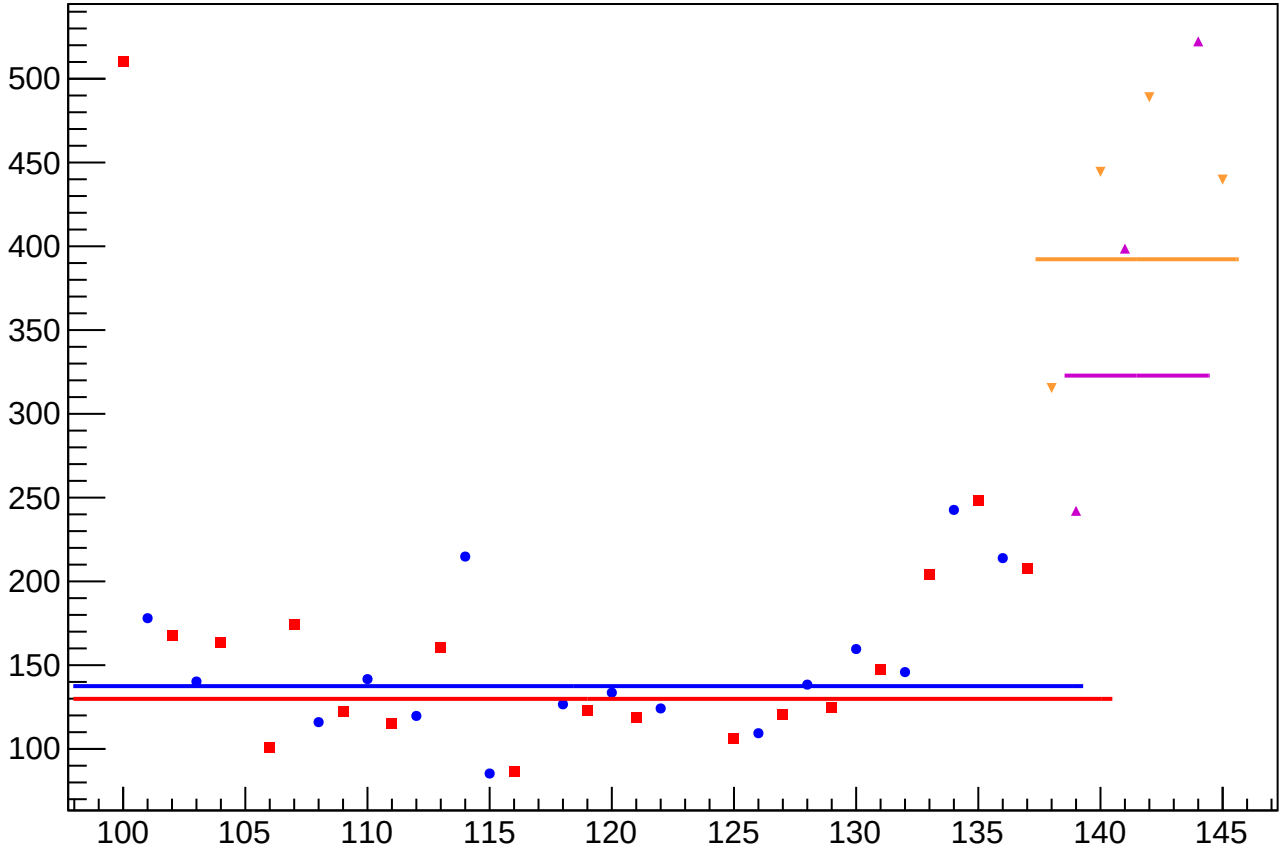
Right: 0.015+/-0.038 $\chi^2$/NDF: 43.1/33

In: -0.027+/-0.053 $\chi^2$/NDF:24.1/18

Out: 0.073+/-0.051 $\chi^2$/NDF:34.0/21

All: 0.024+/-0.037 $\chi^2$/NDF: 59.9/40

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: 392.264+/-0.170 $\chi^2$/NDF:162677.2/3

Right Out: 129.887+/-0.037 $\chi^2$/NDF: 833937.8/17

Left In: 322.821+/-0.151 $\chi^2$/NDF:494742.9/2

Left: 353.479+/-0.113 $\chi^2$/NDF: 750860.1/6

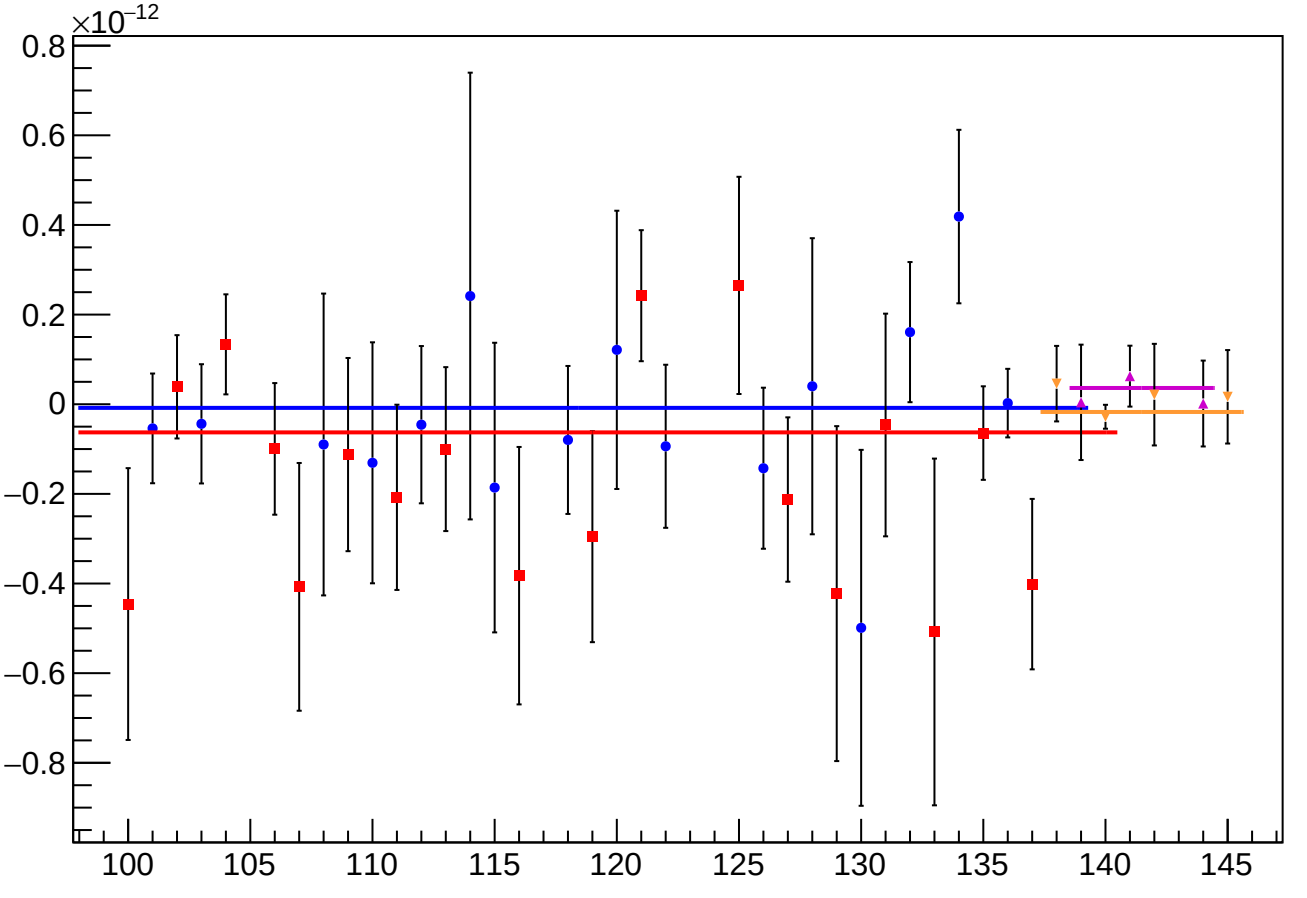
Right: 133.568+/-0.027 $\chi^2$/NDF: 1547174.9/33

In: 148.718+/-0.037 $\chi^2$/NDF:2603763.4/18

Out: 141.857+/-0.036 $\chi^2$/NDF:3276002.9/21

All: 145.204+/-0.026 $\chi^2$/NDF: 5897231.1/40

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:0.9/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.3/2

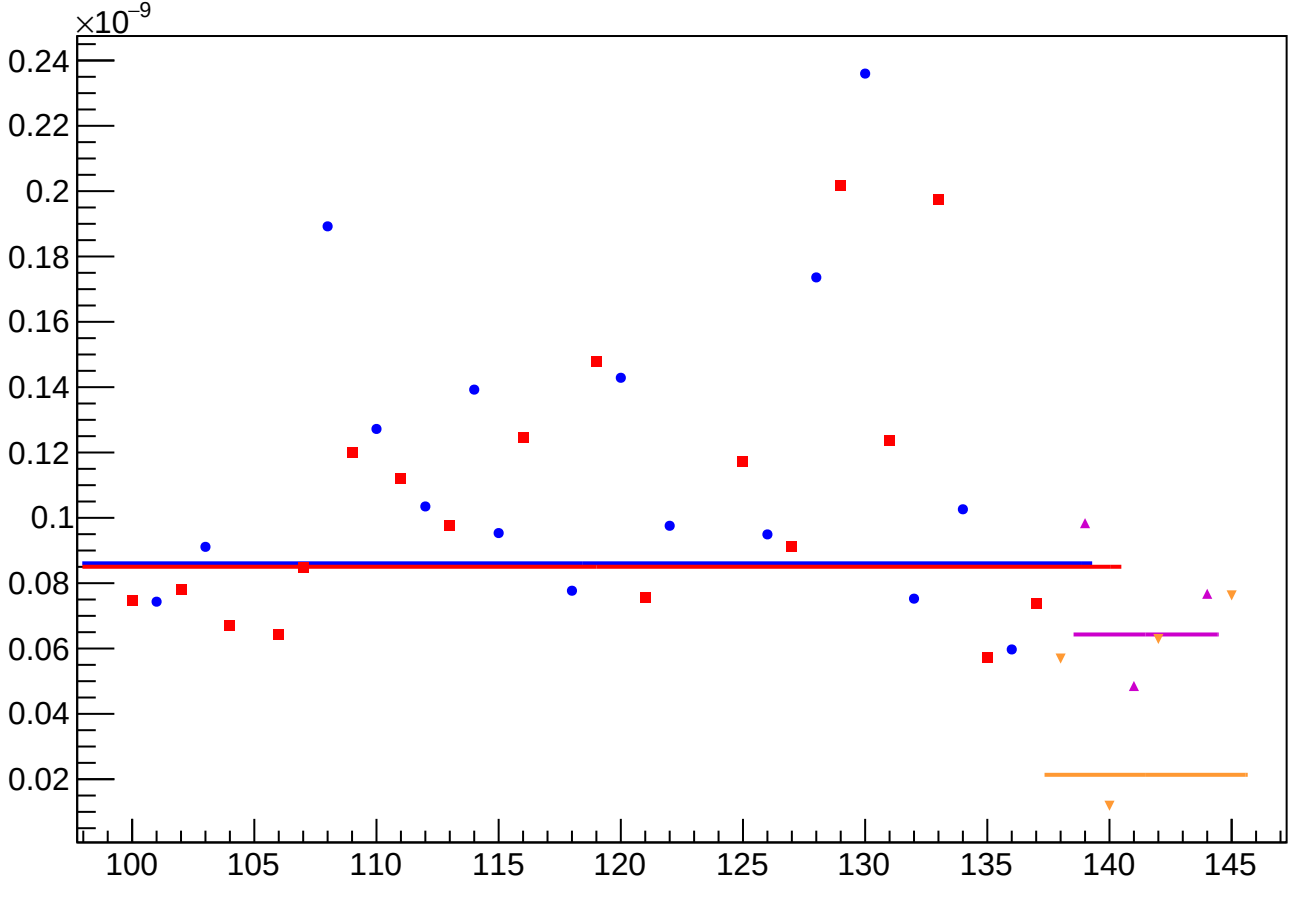
Left: -0.000+/-0.000 $\chi^2$/NDF: 2.2/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:10.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:24.0/21

All: -0.000+/-0.000 $\chi^2$/NDF: 35.6/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1072075.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1432722.1/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 983211.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:281753.7/2

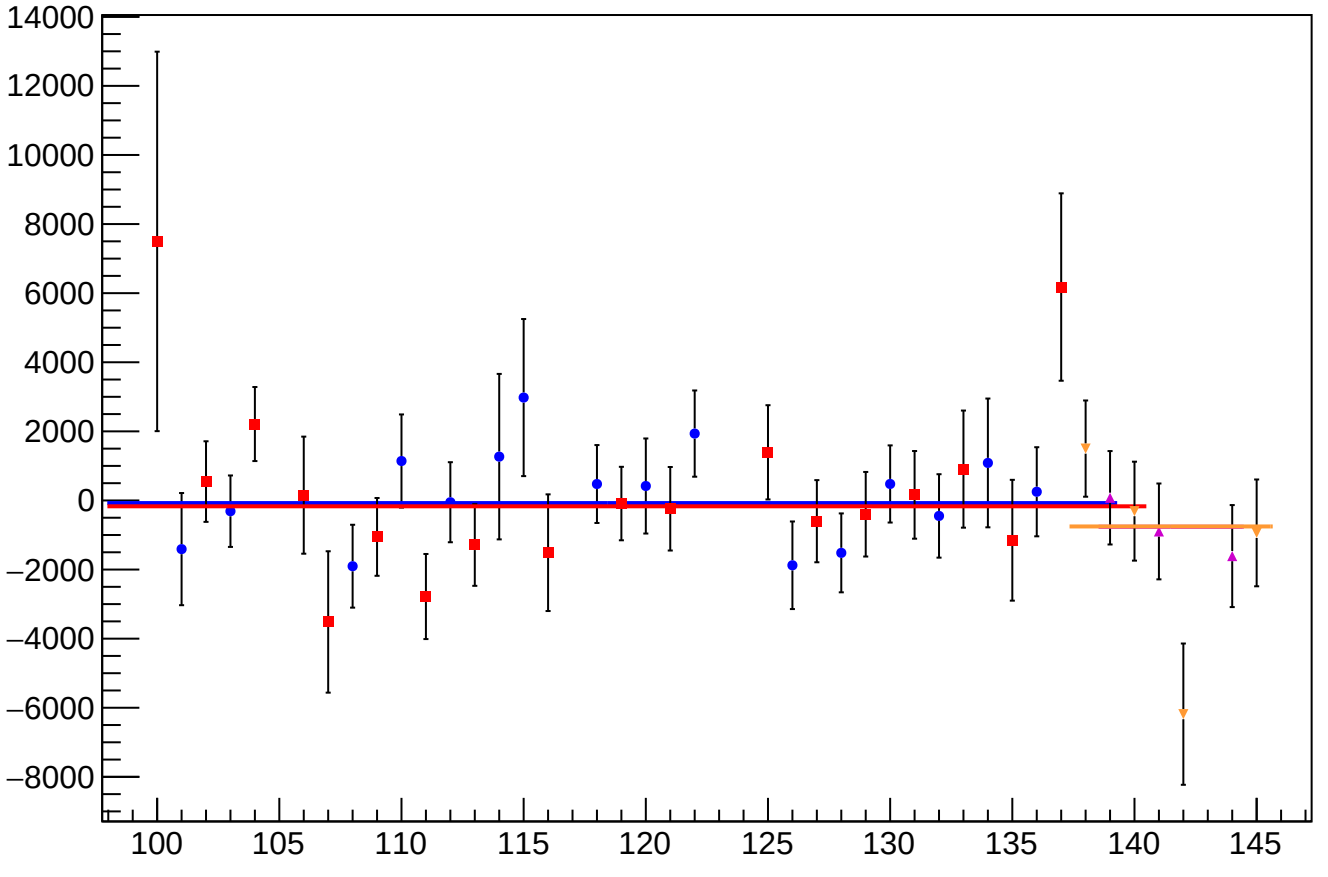
Left: 0.000+/-0.000 $\chi^2$/NDF: 2876964.4/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 2055907.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:1569641.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5904534.1/21

All: 0.000+/-0.000 $\chi^2$/NDF: 9588611.2/40




Right In: -75.944+/-326.226 $\chi^2$/NDF: 13.4/15

Left Out: -752.438+/-775.946 $\chi^2$/NDF:9.8/3

Right Out: -169.345+/-321.827 $\chi^2$/NDF: 24.4/17

Left In: -761.690+/-809.636 $\chi^2$/NDF:0.7/2

Left: -756.868+/-560.208 $\chi^2$/NDF: 10.5/6

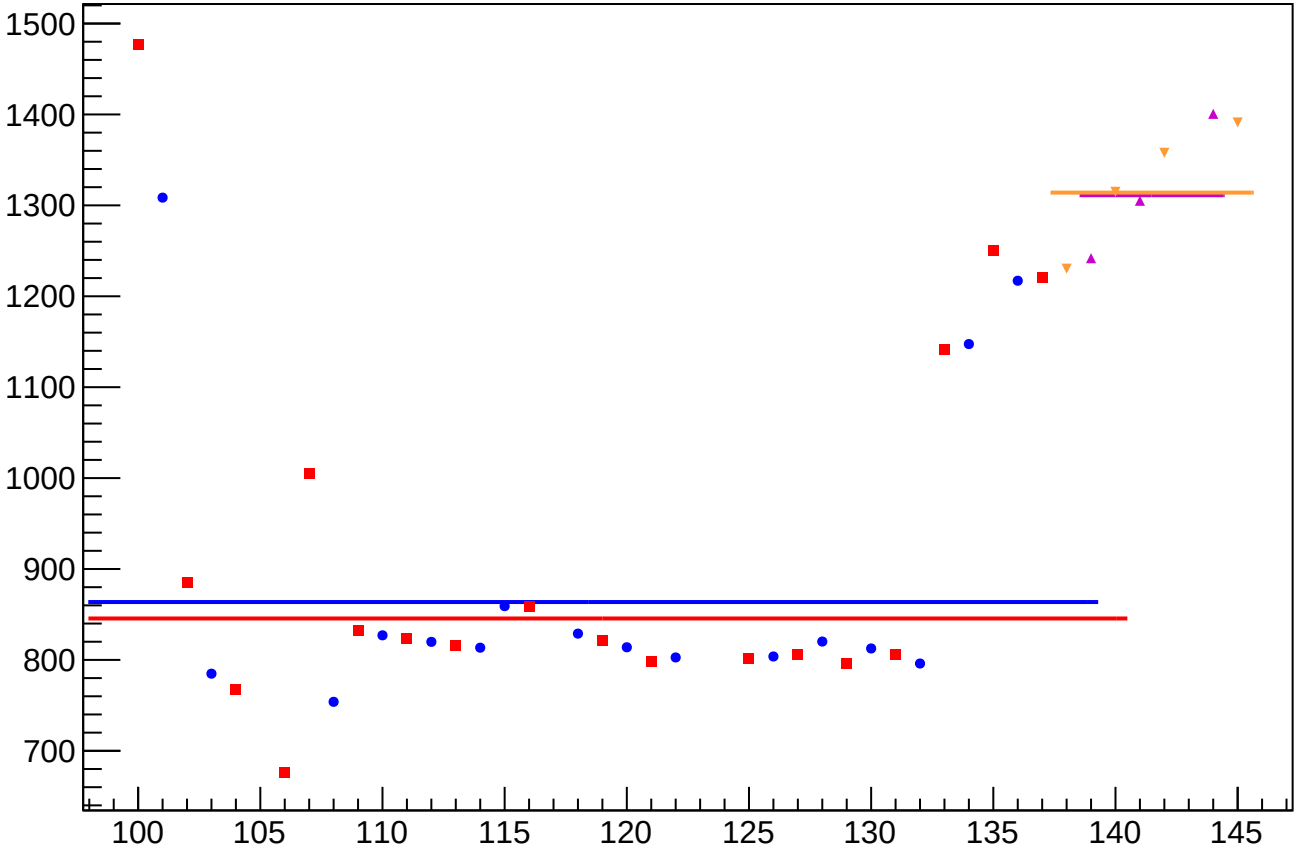
Right: -123.279+/-229.106 $\chi^2$/NDF: 37.8/33

In: -171.726+/-302.587 $\chi^2$/NDF:14.7/18

Out: -254.927+/-297.273 $\chi^2$/NDF:34.6/21

All: -214.064+/-212.057 $\chi^2$/NDF: 49.4/40

# reg_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.8/15

Left Out: 1314.039+/-0.549 $\chi^2$/NDF:13117.8/3

Right Out: 845.579+/-0.225 $\chi^2$/NDF: 307774.6/17

Left In: 1311.176+/-0.572 $\chi^2$/NDF:12640.7/2

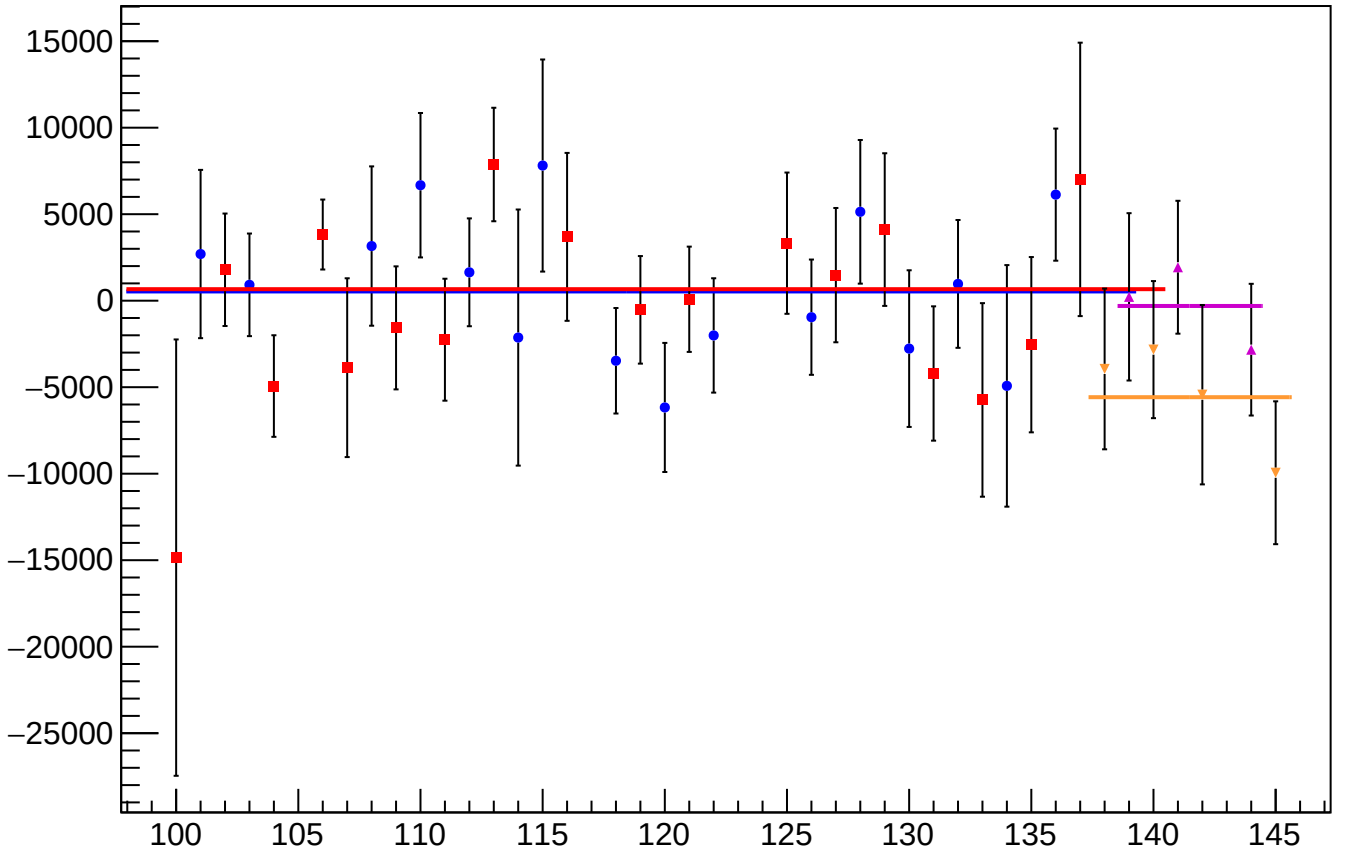
Left: 1312.669+/-0.396 $\chi^2$/NDF: 25771.5/6

Right: 854.385+/-0.161 $\chi^2$/NDF: 718425.8/33

In: 926.168+/-0.214 $\chi^2$/NDF:945826.9/18

Out: 912.890+/-0.208 $\chi^2$/NDF:945124.5/21

All: 919.341+/-0.149 $\chi^2$/NDF: 1892931.7/40




Right In: 534.507+/-981.290 $\chi^2$/NDF: 14.7/15

Left Out: -5577.843+/-2203.801 $\chi^2$/NDF:1.7/3

Right Out: 665.878+/-864.970 $\chi^2$/NDF: 20.0/17

Left In: -304.894+/-2359.763 $\chi^2$/NDF:0.8/2

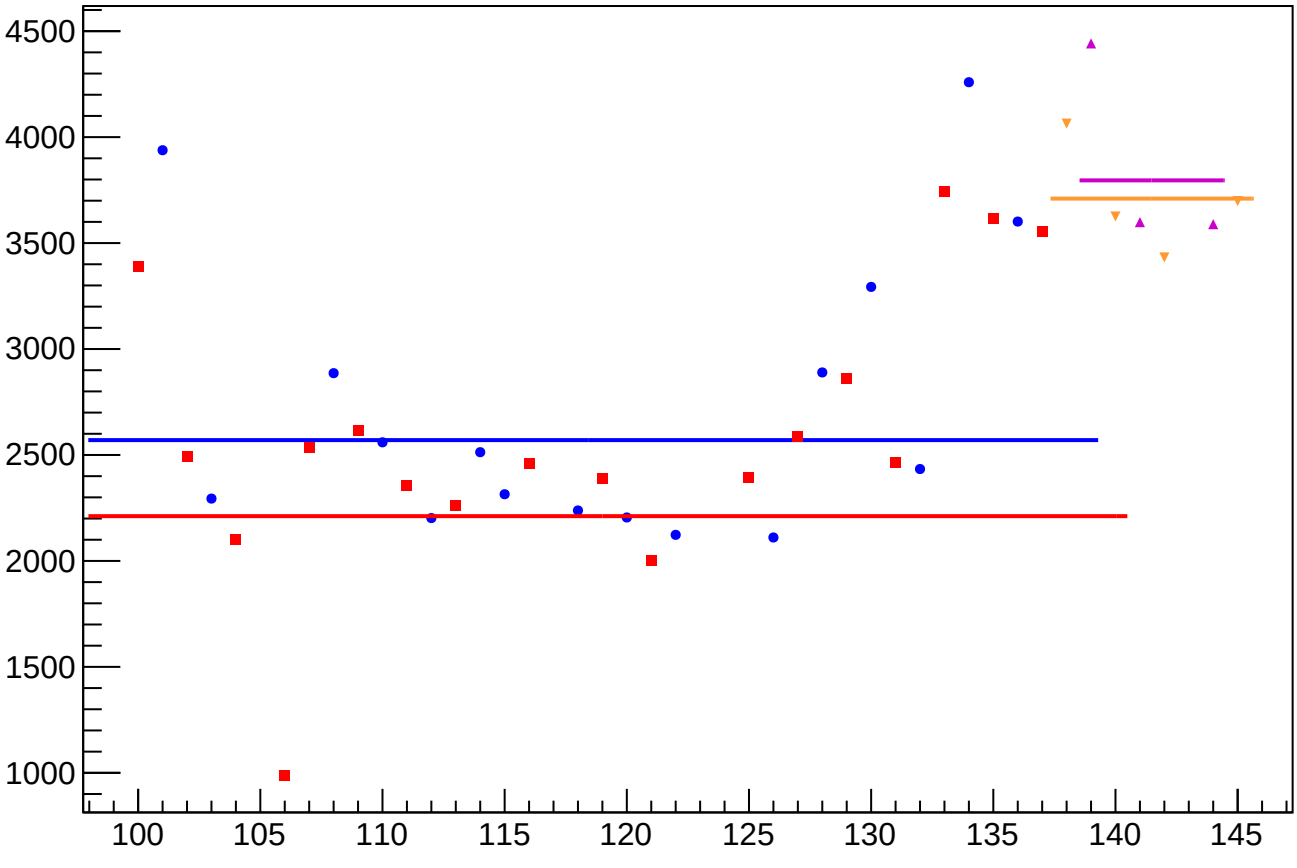
Left: -3121.364+/-1610.639 $\chi^2$/NDF: 5.2/6

Right: 608.437+/-648.874 $\chi^2$/NDF: 34.6/33

In: 410.754+/-906.071 $\chi^2$/NDF:15.6/18

Out: -167.567+/-805.173 $\chi^2$/NDF:28.7/21

All: 87.613+/-601.867 $\chi^2$/NDF: 44.4/40




Right In: 2570.135+/-0.694 $\chi^2$/NDF: 662477.9/15

Left Out: 3709.884+/-1.558 $\chi^2$/NDF:18252.5/3

Right Out: 2211.269+/-0.612 $\chi^2$/NDF: 1264087.9/17

Left In: 3795.919+/-1.669 $\chi^2$/NDF:46894.3/2

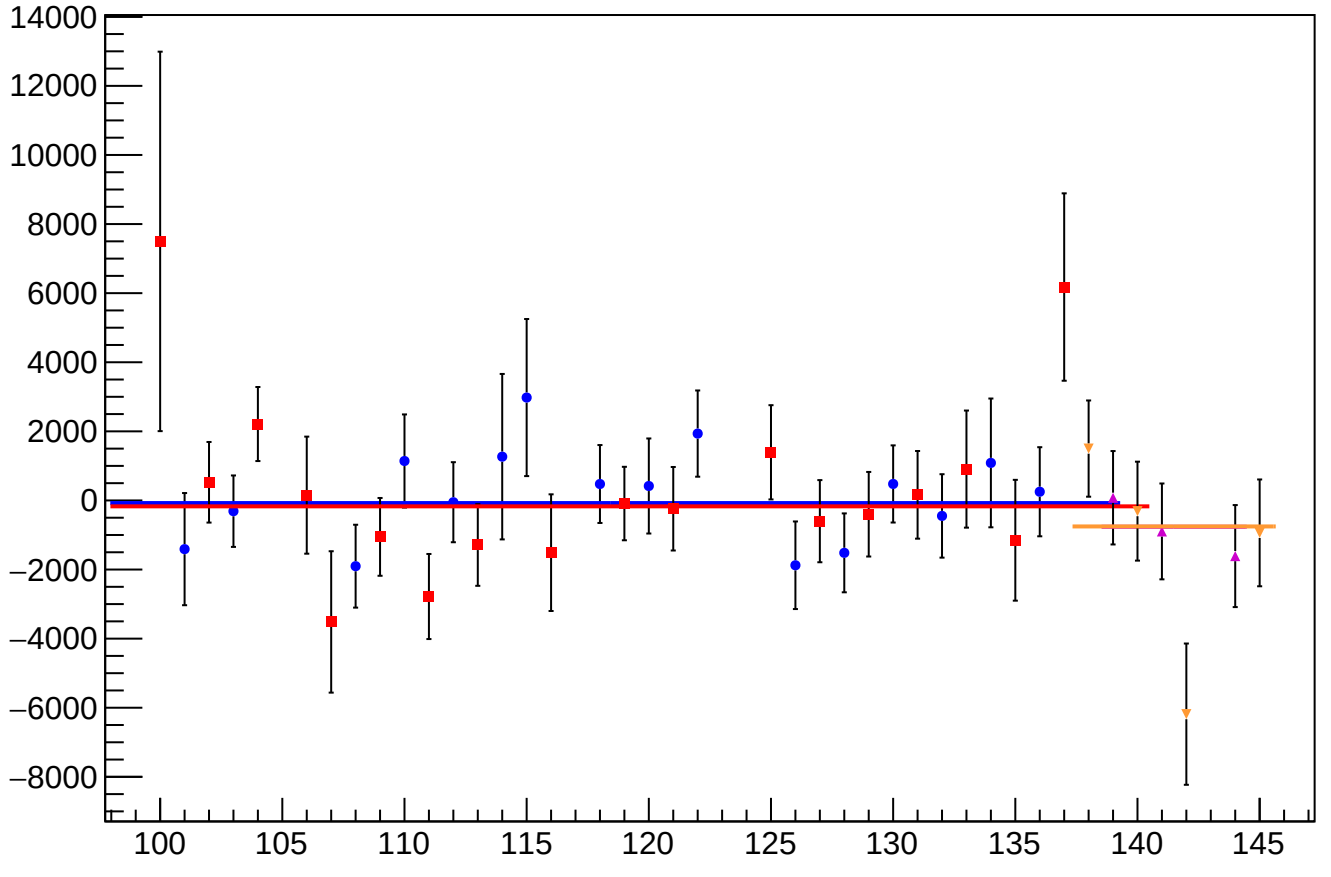
Left: 3749.965+/-1.139 $\chi^2$/NDF: 66566.8/6

Right: 2368.182+/-0.459 $\chi^2$/NDF: 2077093.7/33

In: 2750.853+/-0.641 $\chi^2$/NDF:1169471.0/18

Out: 2411.312+/-0.569 $\chi^2$/NDF:2083725.7/21

All: 2561.132+/-0.426 $\chi^2$/NDF: 3410129.1/40




Right In: -76.022+/-326.226 $\chi^2$/NDF: 13.3/15

Left Out: -752.541+/-775.946 $\chi^2$/NDF:9.8/3

Right Out: -170.982+/-321.832 $\chi^2$/NDF: 24.4/17

Left In: -761.745+/-809.636 $\chi^2$/NDF:0.7/2

Left: -756.948+/-560.208 $\chi^2$/NDF: 10.5/6

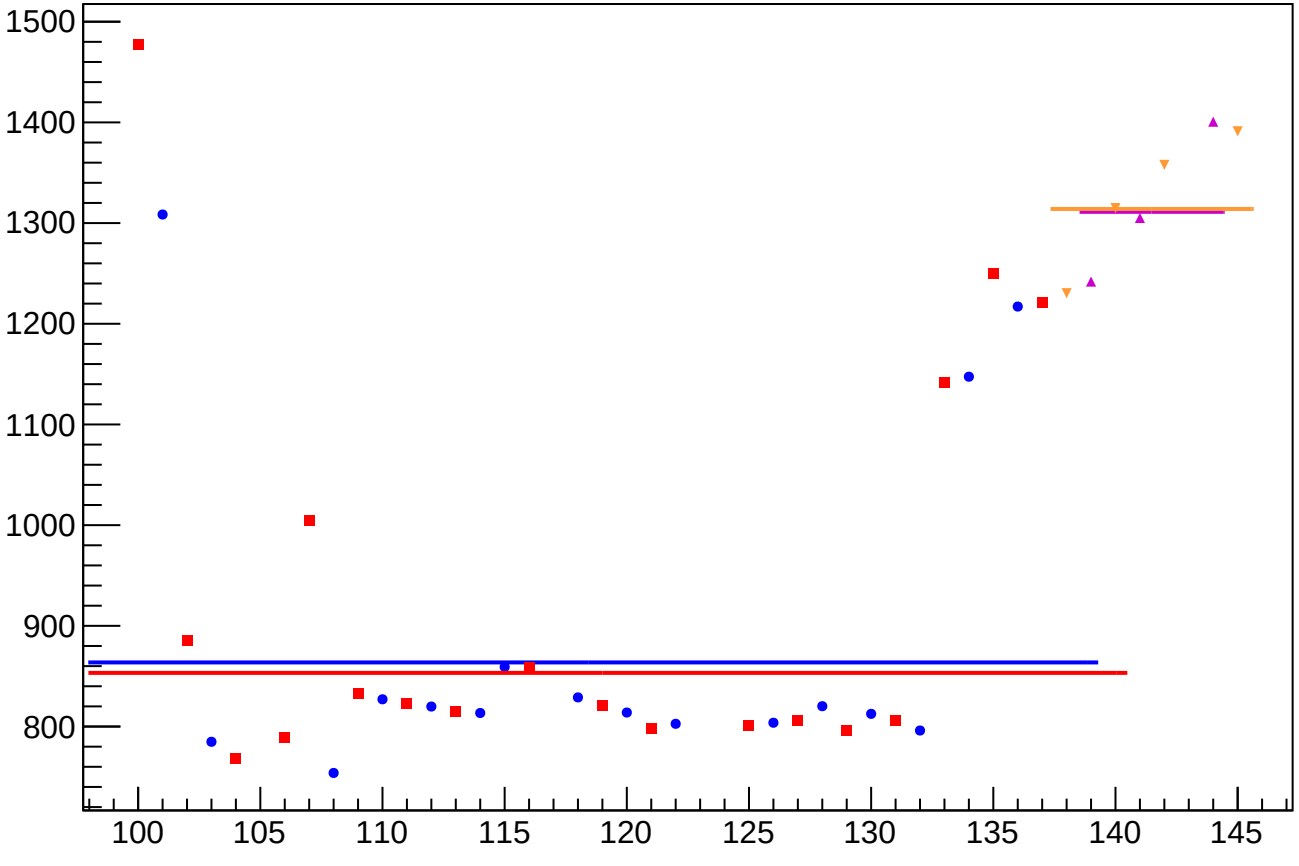
Right: -124.146+/-229.107 $\chi^2$/NDF: 37.7/33

In: -171.801+/-302.587 $\chi^2$/NDF:14.7/18

Out: -256.342+/-297.276 $\chi^2$/NDF:34.6/21

All: -214.820+/-212.059 $\chi^2$/NDF: 49.4/40

# cor_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.5/15

Left Out: 1314.039+/-0.549 $\chi^2$/NDF:13117.8/3

Right Out: 853.289+/-0.226 $\chi^2$/NDF: 275357.1/17

Left In: 1311.176+/-0.572 $\chi^2$/NDF:12640.7/2

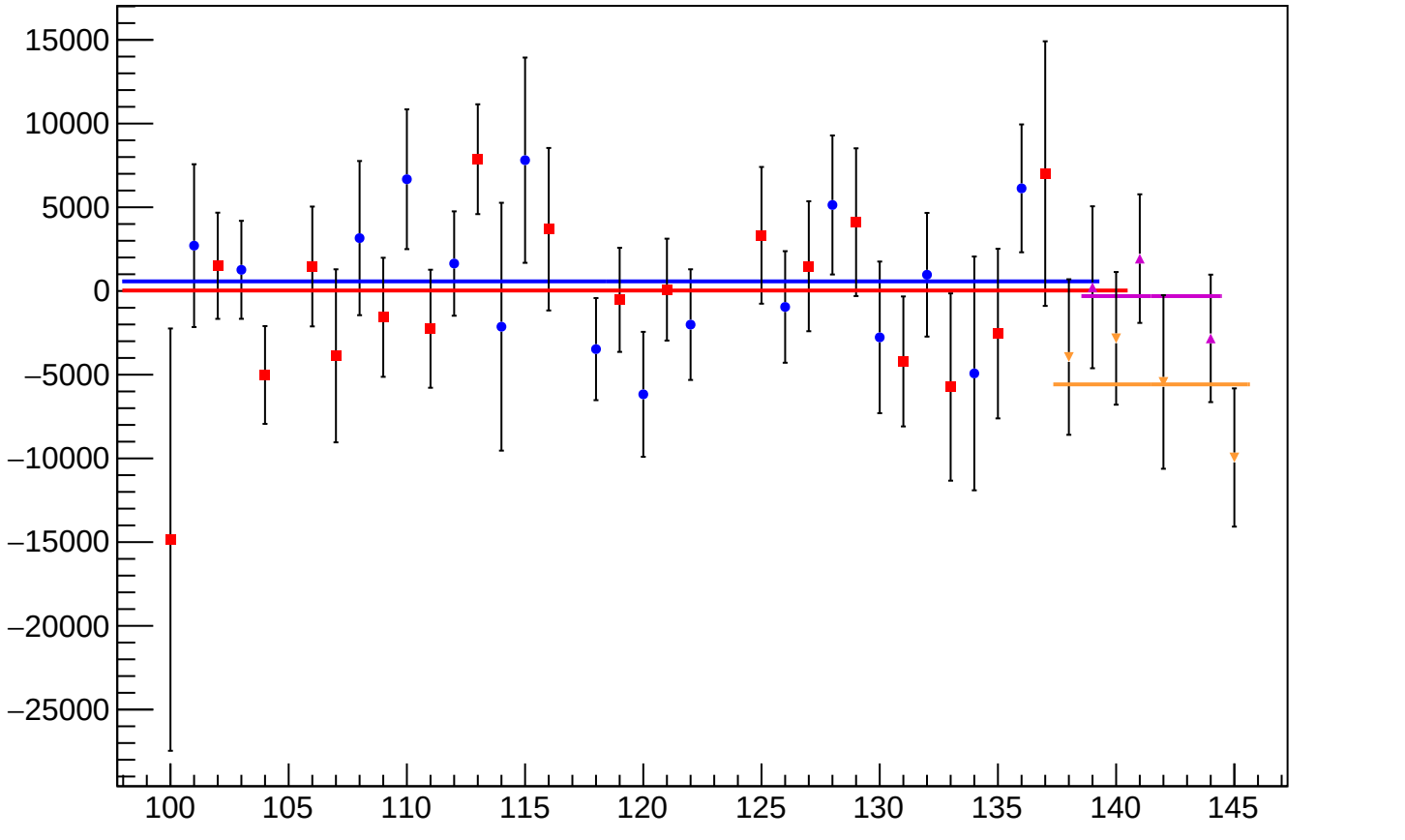
Left: 1312.669+/-0.396 $\chi^2$/NDF: 25771.5/6

Right: 858.378+/-0.162 $\chi^2$/NDF: 683885.4/33

In: 926.168+/-0.214 $\chi^2$/NDF:945826.8/18

Out: 920.322+/-0.209 $\chi^2$/NDF:891058.4/21

All: 923.180+/-0.150 $\chi^2$/NDF: 1837266.8/40




Right In: 574.964+/-979.856 $\chi^2$/NDF: 14.7/15

Left Out: -5578.012+/-2203.802 $\chi^2$/NDF:1.7/3

Right Out: 28.604+/-922.115 $\chi^2$/NDF: 17.2/17

Left In: -304.883+/-2359.762 $\chi^2$/NDF:0.8/2

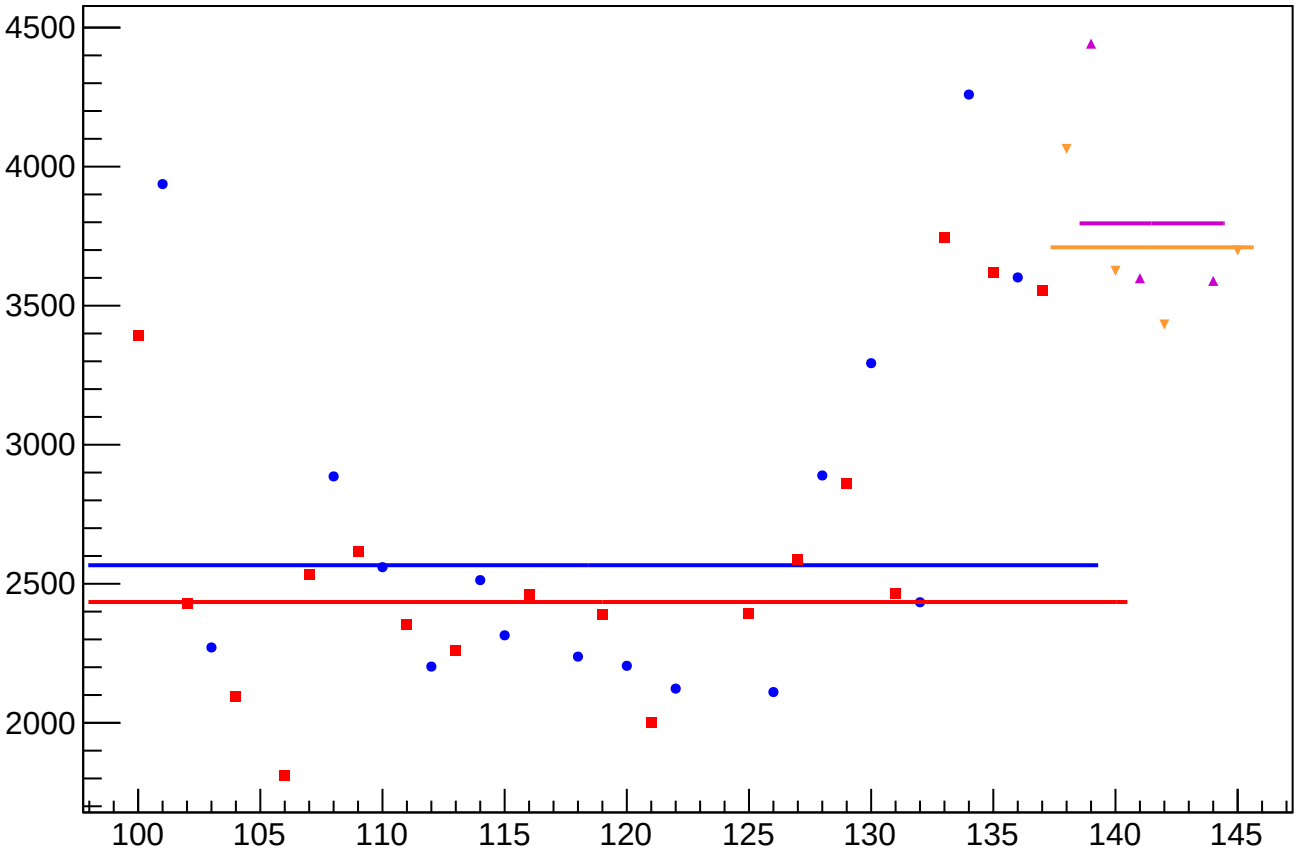
Left: -3121.446+/-1610.639 $\chi^2$/NDF: 5.2/6

Right: 285.212+/-671.519 $\chi^2$/NDF: 32.1/33

In: 445.570+/-904.942 $\chi^2$/NDF:15.6/18

Out: -806.730+/-850.653 $\chi^2$/NDF:24.4/21

All: -219.268+/-619.807 $\chi^2$/NDF: 41.1/40




Right In: 2566.732+/-0.693 $\chi^2$/NDF: 665871.6/15

Left Out: 3709.887+/-1.558 $\chi^2$/NDF:18251.0/3

Right Out: 2434.430+/-0.652 $\chi^2$/NDF: 434078.9/17

Left In: 3795.918+/-1.669 $\chi^2$/NDF:46893.5/2

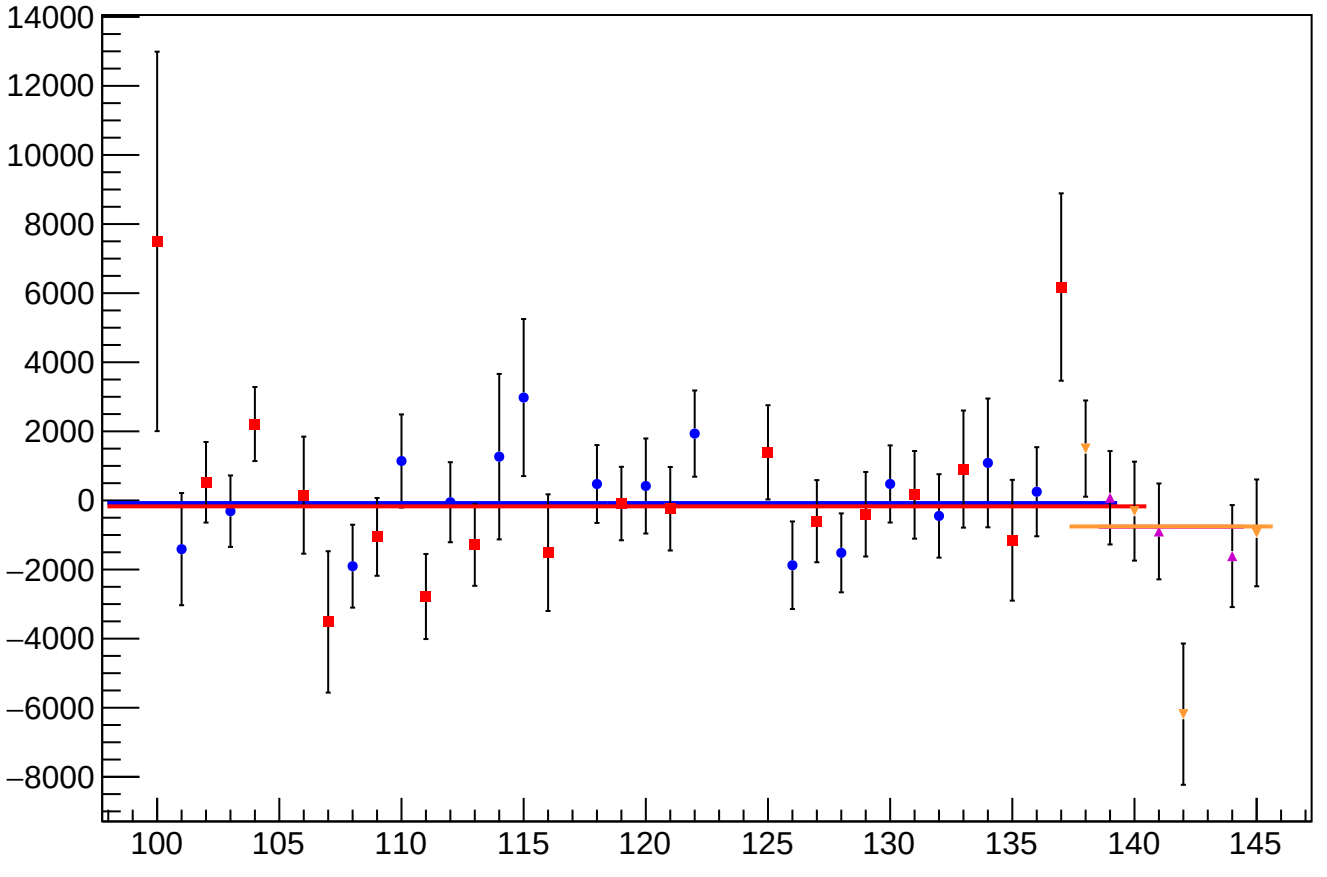
Left: 3749.966+/-1.139 $\chi^2$/NDF: 66564.4/6

Right: 2496.568+/-0.475 $\chi^2$/NDF: 1119287.3/33

In: 2747.501+/-0.640 $\chi^2$/NDF:1175620.4/18

Out: 2624.461+/-0.602 $\chi^2$/NDF:1022429.1/21

All: 2682.180+/-0.438 $\chi^2$/NDF: 2217677.9/40




Right In: -76.022+/-326.226 $\chi^2$/NDF: 13.3/15

Left Out: -752.541+/-775.946 $\chi^2$/NDF:9.8/3

Right Out: -170.982+/-321.832 $\chi^2$/NDF: 24.4/17

Left In: -761.745+/-809.636 $\chi^2$/NDF:0.7/2

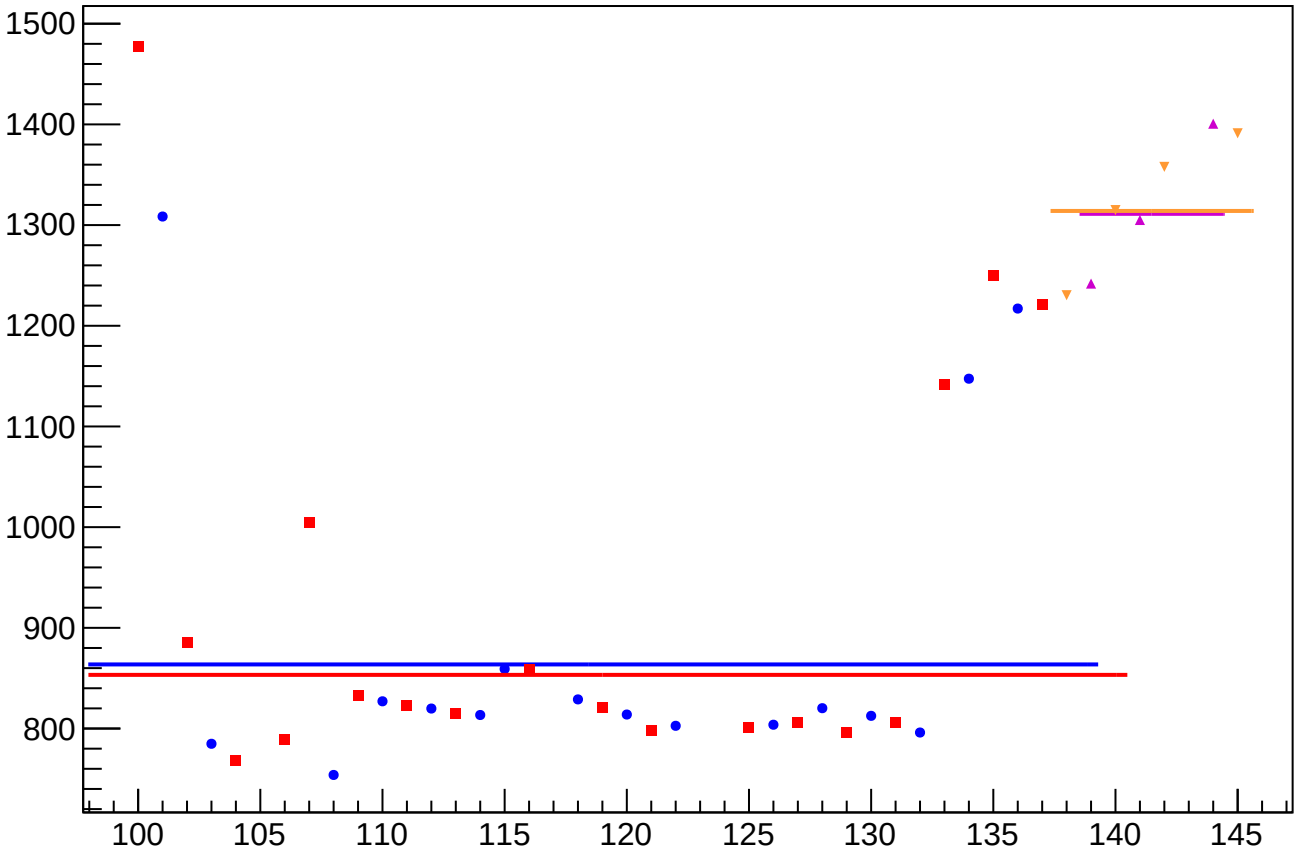
Left: -756.948+/-560.208 $\chi^2$/NDF: 10.5/6

Right: -124.146+/-229.107 $\chi^2$/NDF: 37.7/33

In: -171.801+/-302.587 $\chi^2$/NDF:14.7/18

Out: -256.342+/-297.276 $\chi^2$/NDF:34.6/21

All: -214.820+/-212.059 $\chi^2$/NDF: 49.4/40




Right In: 863.661+/-0.231 $\chi^2$/NDF: 407498.5/15

Left Out: 1314.039+/-0.549 $\chi^2$/NDF:13117.8/3

Right Out: 853.289+/-0.226 $\chi^2$/NDF: 275357.1/17

Left In: 1311.176+/-0.572 $\chi^2$/NDF:12640.7/2

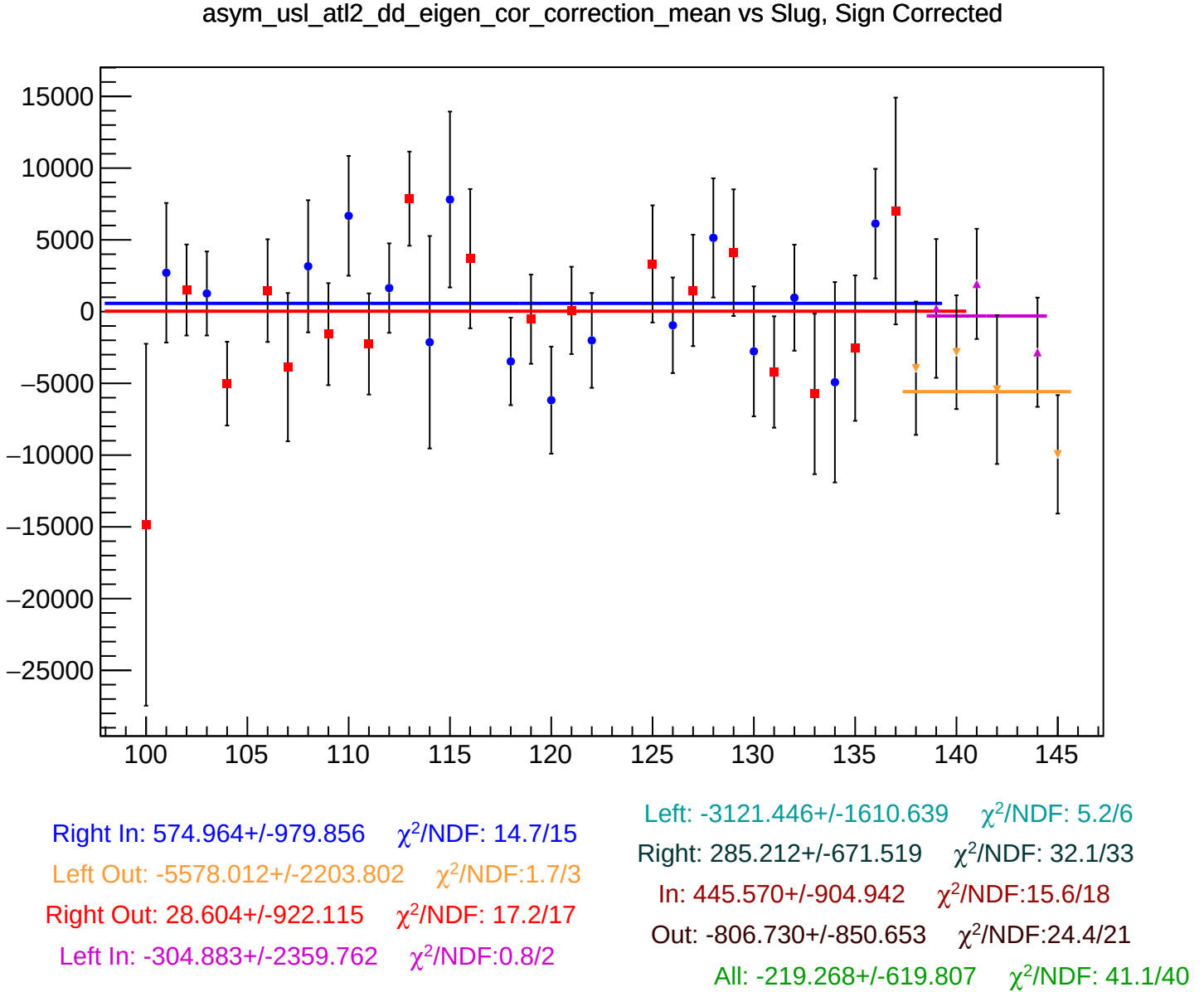
Left: 1312.669+/-0.396 $\chi^2$/NDF: 25771.5/6

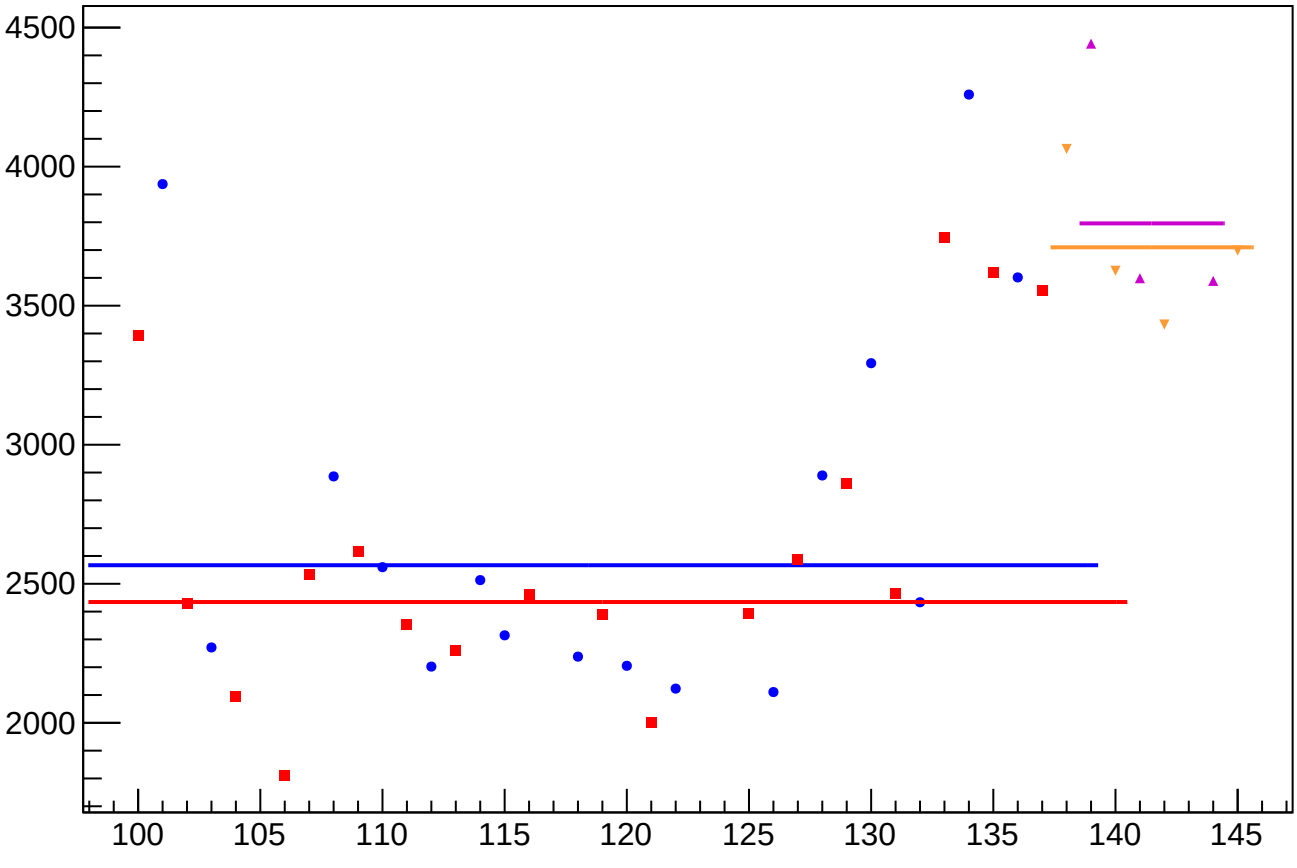
Right: 858.378+/-0.162 $\chi^2$/NDF: 683885.4/33

In: 926.168+/-0.214 $\chi^2$/NDF:945826.8/18

Out: 920.322+/-0.209 $\chi^2$/NDF:891058.4/21

All: 923.180+/-0.150 $\chi^2$/NDF: 1837266.8/40


asym_usl_atl2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 574.964+/-979.856 χ²/NDF: 14.7/15
Left Out: -5578.012+/-2203.802 χ²/NDF:1.7/3
Right Out: 28.604+/-922.115 χ²/NDF: 17.2/17
Left In: -304.883+/-2359.762 χ²/NDF:0.8/2
Left: -3121.446+/-1610.639 χ²/NDF: 5.2/6
Right: 285.212+/-671.519 χ²/NDF: 32.1/33
In: 445.570+/-904.942 χ²/NDF:15.6/18
Out: -806.730+/-850.653 χ²/NDF:24.4/21
All: -219.268+/-619.807 χ²/NDF: 41.1/40




Right In: 2566.732+/-0.693 $\chi^2$/NDF: 665871.6/15

Left Out: 3709.887+/-1.558 $\chi^2$/NDF:18251.0/3

Right Out: 2434.430+/-0.652 $\chi^2$/NDF: 434078.9/17

Left In: 3795.918+/-1.669 $\chi^2$/NDF:46893.5/2

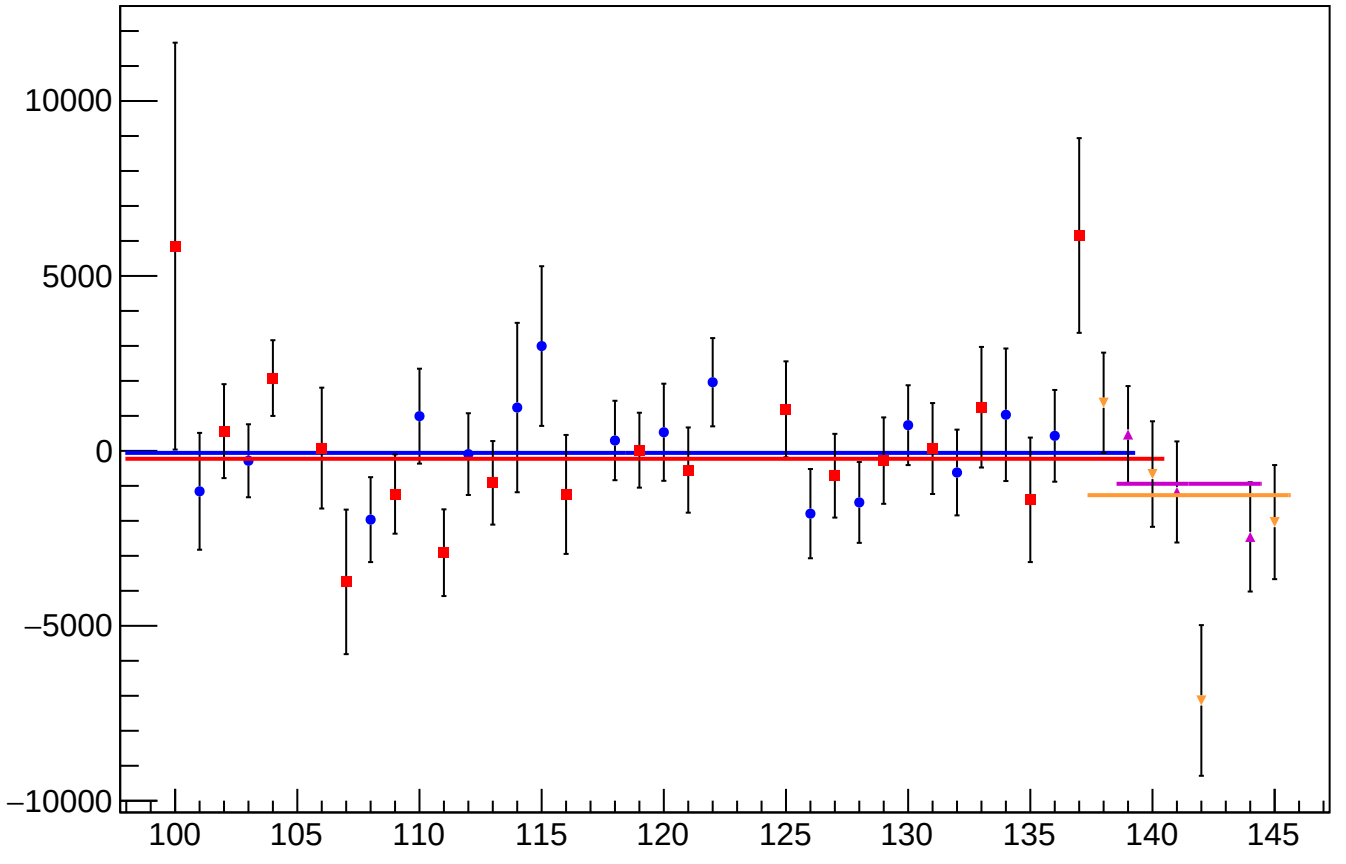
Left: 3749.966+/-1.139 $\chi^2$/NDF: 66564.4/6

Right: 2496.568+/-0.475 $\chi^2$/NDF: 1119287.3/33

In: 2747.501+/-0.640 $\chi^2$/NDF:1175620.4/18

Out: 2624.461+/-0.602 $\chi^2$/NDF:1022429.1/21

All: 2682.180+/-0.438 $\chi^2$/NDF: 2217677.9/40




Right In: -57.208+/-330.088 $\chi^2$/NDF: 13.0/15

Left Out: -1265.627+/-811.203 $\chi^2$/NDF:11.2/3

Right Out: -226.075+/-328.069 $\chi^2$/NDF: 22.9/17

Left In: -940.348+/-841.841 $\chi^2$/NDF:2.0/2

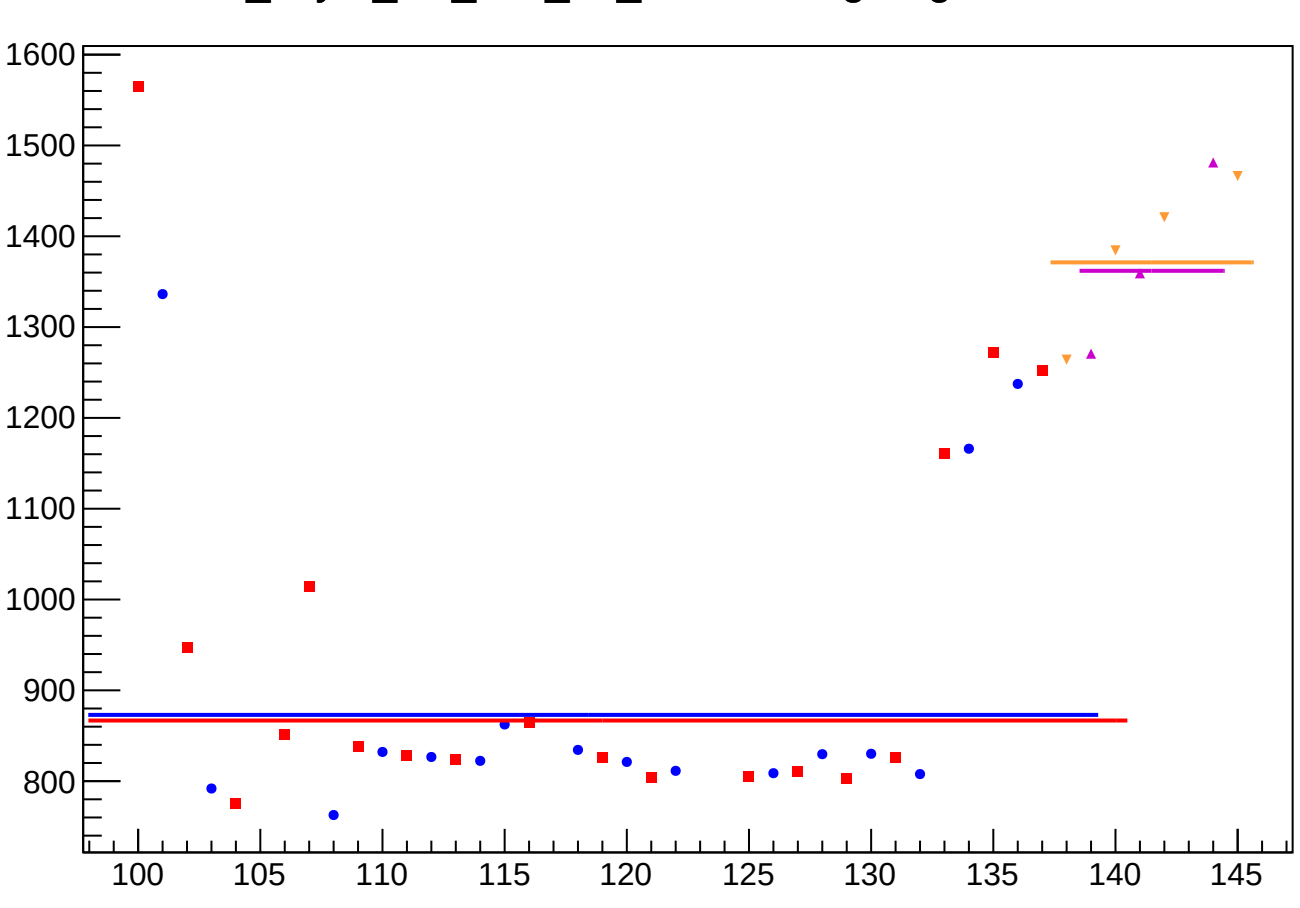
Left: -1109.014+/-584.138 $\chi^2$/NDF: 13.3/6

Right: -142.159+/-232.690 $\chi^2$/NDF: 36.0/33

In: -174.892+/-307.309 $\chi^2$/NDF:15.9/18

Out: -372.201+/-304.138 $\chi^2$/NDF:35.5/21

All: -274.570+/-216.170 $\chi^2$/NDF: 51.7/40




Right In: 872.971+/-0.233 $\chi^2$/NDF: 417099.2/15

Left Out: 1371.259+/-0.574 $\chi^2$/NDF:19217.9/3

Right Out: 866.772+/-0.232 $\chi^2$/NDF: 290386.4/17

Left In: 1361.970+/-0.595 $\chi^2$/NDF:20370.1/2

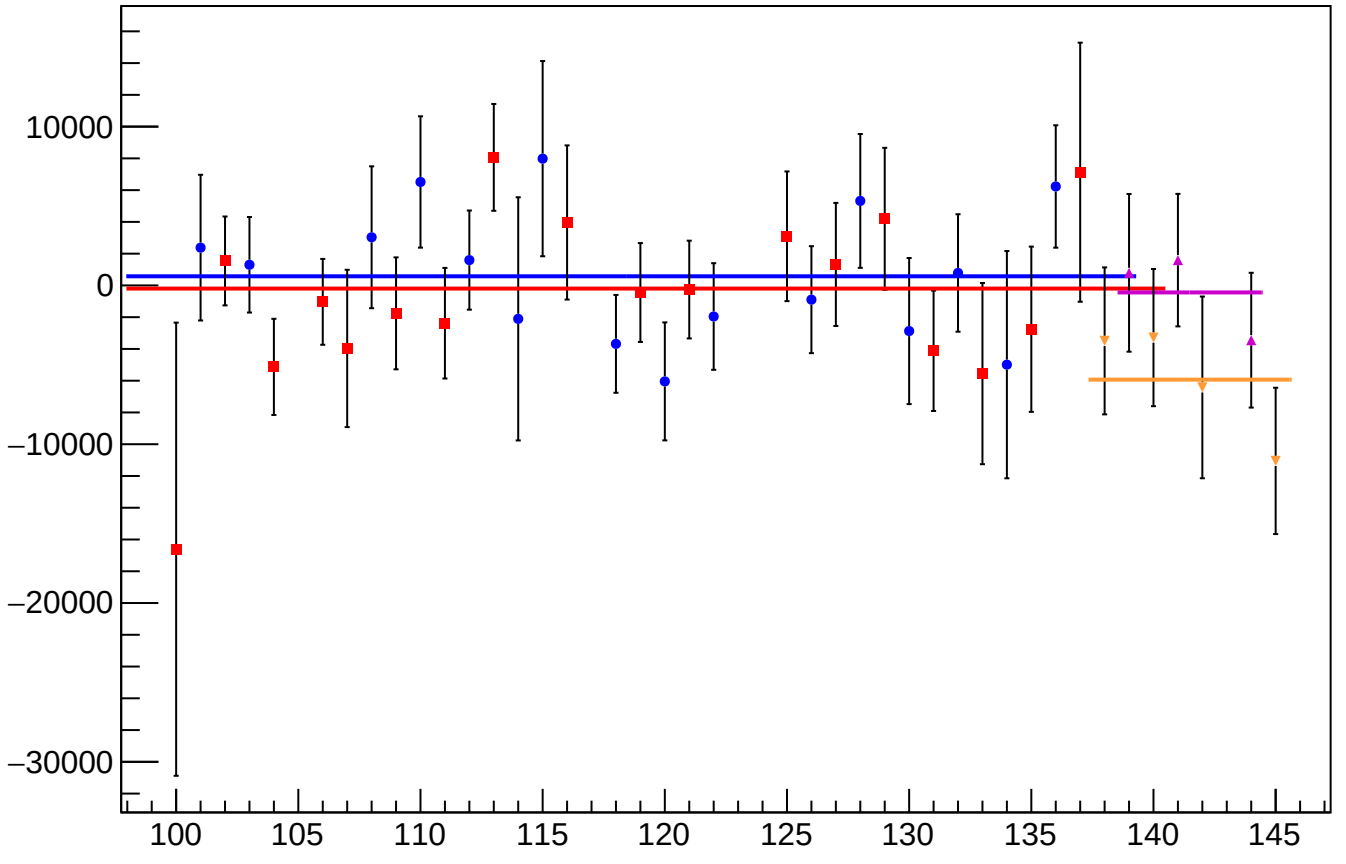
Left: 1366.787+/-0.413 $\chi^2$/NDF: 39714.3/6

Right: 869.850+/-0.164 $\chi^2$/NDF: 707840.8/33

In: 938.134+/-0.217 $\chi^2$/NDF:1022361.3/18

Out: 937.566+/-0.215 $\chi^2$/NDF:974578.4/21

All: 937.847+/-0.153 $\chi^2$/NDF: 1996943.1/40




Right In: 575.271+/-984.888 $\chi^2$/NDF: 14.7/15

Left Out: -5933.689+/-2370.331 $\chi^2$/NDF:1.9/3

Right Out: -197.953+/-894.121 $\chi^2$/NDF: 17.2/17

Left In: -442.091+/-2552.182 $\chi^2$/NDF:0.8/2

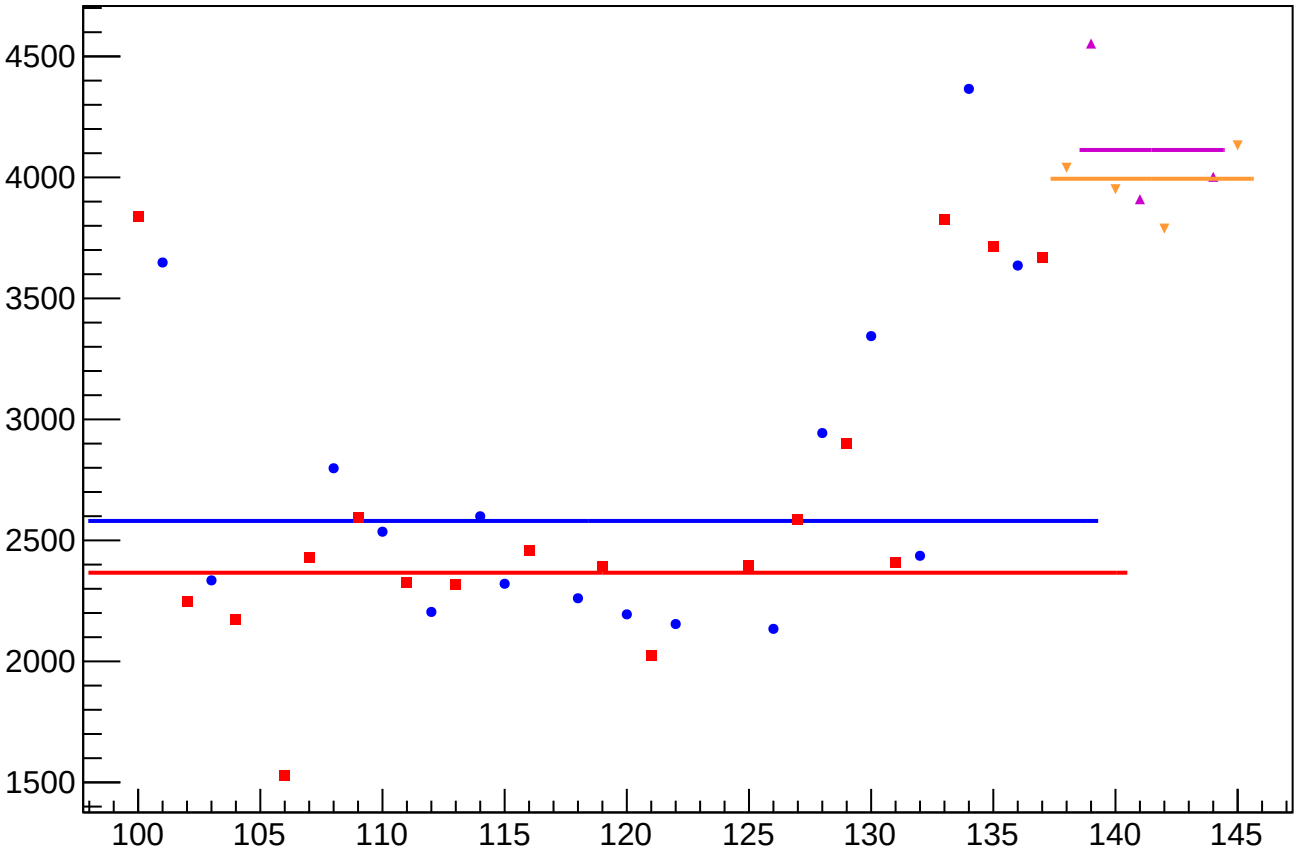
Left: -3390.488+/-1736.811 $\chi^2$/NDF: 5.2/6

Right: 151.395+/-662.008 $\chi^2$/NDF: 32.2/33

In: 443.404+/-918.845 $\chi^2$/NDF:15.6/18

Out: -912.429+/-836.581 $\chi^2$/NDF:24.2/21

All: -297.911+/-618.595 $\chi^2$/NDF: 41.0/40




Right In: 2580.377+/-0.696 $\chi^2$/NDF: 617156.1/15

Left Out: 3994.427+/-1.676 $\chi^2$/NDF:4779.7/3

Right Out: 2366.412+/-0.632 $\chi^2$/NDF: 611695.1/17

Left In: 4113.364+/-1.805 $\chi^2$/NDF:21809.7/2

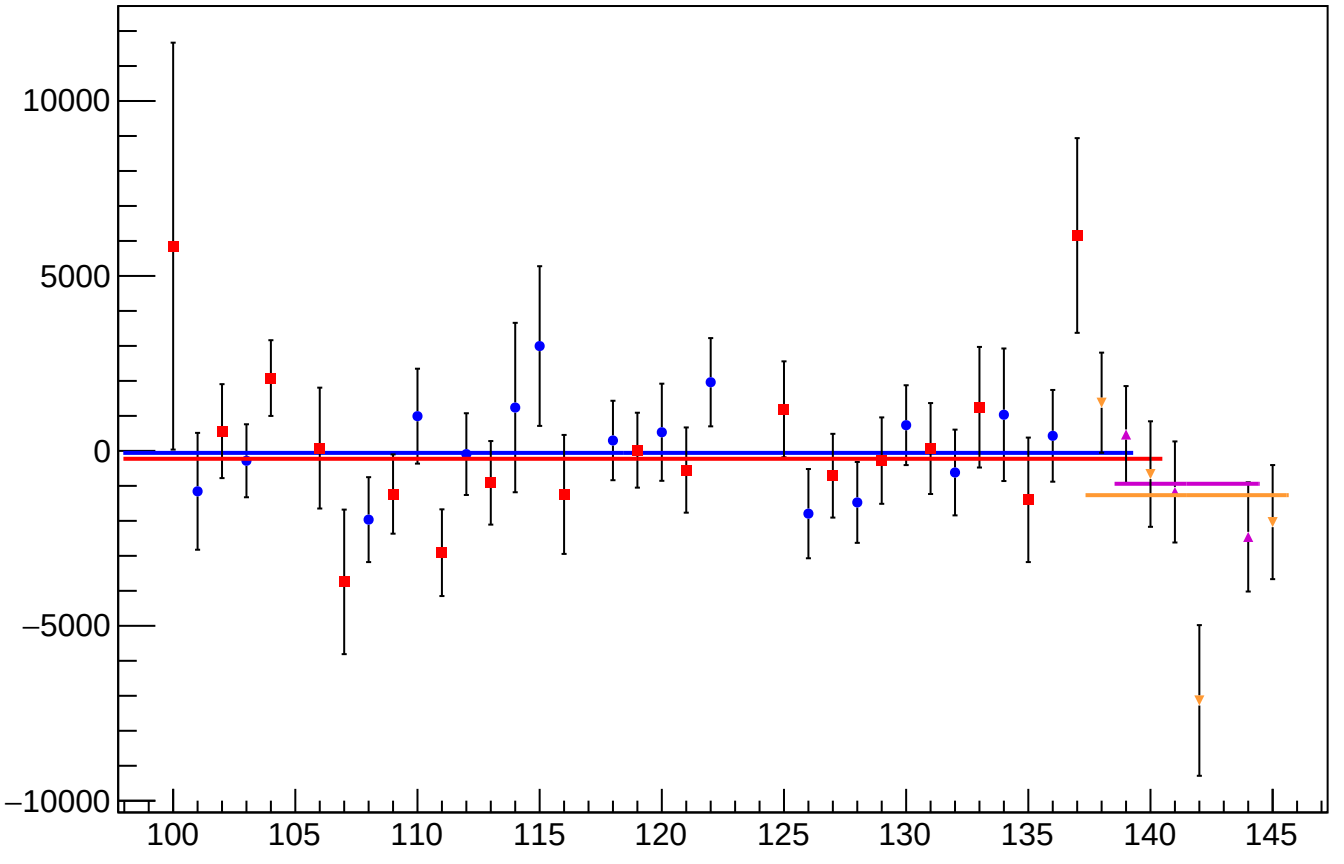
Left: 4049.508+/-1.228 $\chi^2$/NDF: 28921.4/6

Right: 2463.083+/-0.468 $\chi^2$/NDF: 1280596.8/33

In: 2779.078+/-0.650 $\chi^2$/NDF:1267016.1/18

Out: 2569.207+/-0.592 $\chi^2$/NDF:1442422.0/21

All: 2664.329+/-0.437 $\chi^2$/NDF: 2766486.7/40




Right In: -57.211+/-330.088 $\chi^2$/NDF: 13.0/15

Left Out: -1265.643+/-811.204 $\chi^2$/NDF:11.2/3

Right Out: -226.078+/-328.069 $\chi^2$/NDF: 22.9/17

Left In: -940.351+/-841.842 $\chi^2$/NDF:2.0/2

Left: -1109.024+/-584.139 $\chi^2$/NDF: 13.3/6

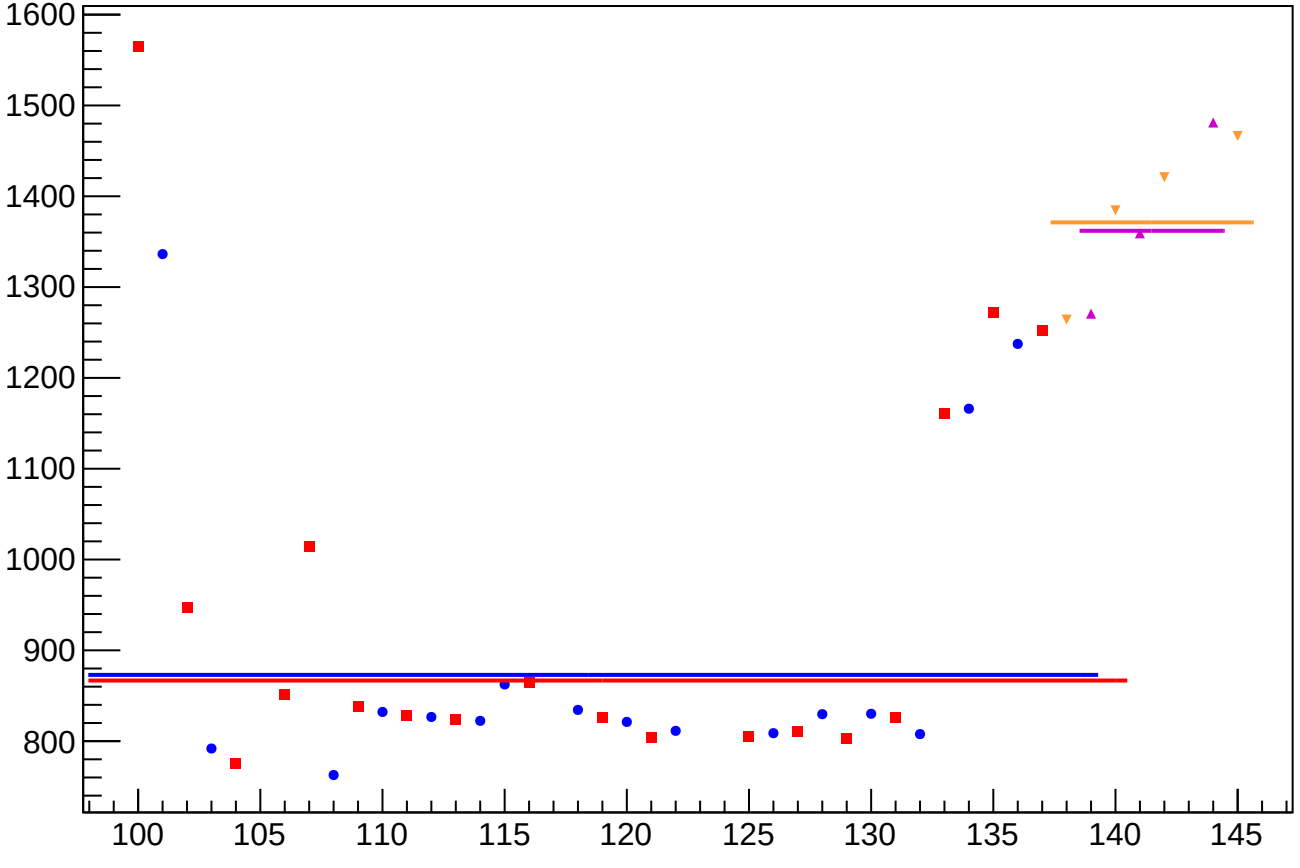
Right: -142.162+/-232.690 $\chi^2$/NDF: 36.0/33

In: -174.895+/-307.309 $\chi^2$/NDF:15.9/18

Out: -372.206+/-304.138 $\chi^2$/NDF:35.5/21

All: -274.574+/-216.170 $\chi^2$/NDF: 51.7/40

# eigen_dit_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 872.972+/-0.233 $\chi^2$/NDF: 417098.9/15

Left Out: 1371.261+/-0.574 $\chi^2$/NDF:19218.6/3

Right Out: 866.772+/-0.232 $\chi^2$/NDF: 290386.6/17

Left In: 1361.972+/-0.595 $\chi^2$/NDF:20370.3/2

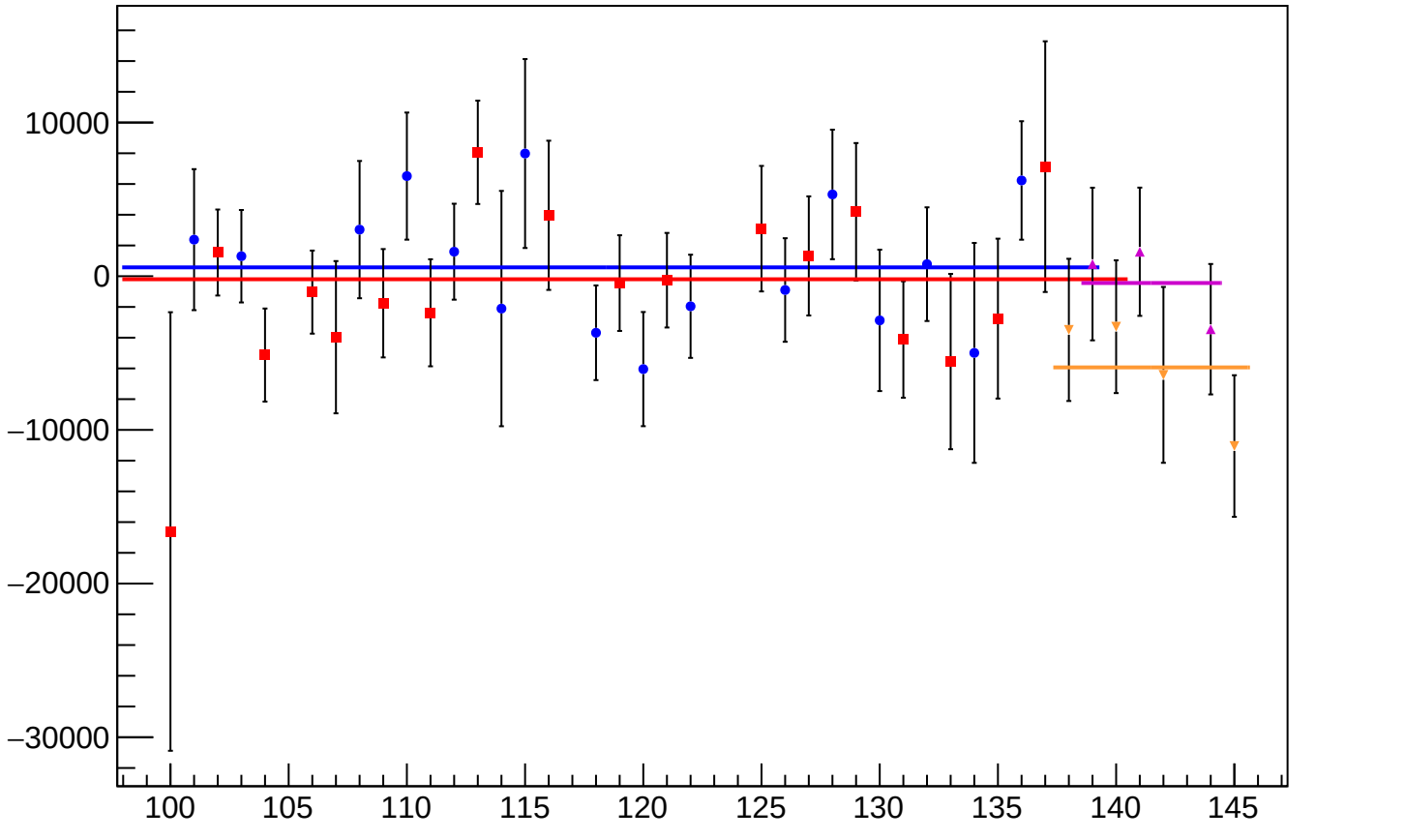
Left: 1366.789+/-0.413 $\chi^2$/NDF: 39715.1/6

Right: 869.850+/-0.164 $\chi^2$/NDF: 707840.8/33

In: 938.134+/-0.217 $\chi^2$/NDF:1022363.8/18

Out: 937.566+/-0.215 $\chi^2$/NDF:974581.8/21

All: 937.847+/-0.153 $\chi^2$/NDF: 1996949.0/40




Right In: 575.266+/-984.885 $\chi^2$/NDF: 14.7/15

Left Out: -5933.713+/-2370.338 $\chi^2$/NDF:1.9/3

Right Out: -197.955+/-894.119 $\chi^2$/NDF: 17.2/17

Left In: -442.093+/-2552.188 $\chi^2$/NDF:0.8/2

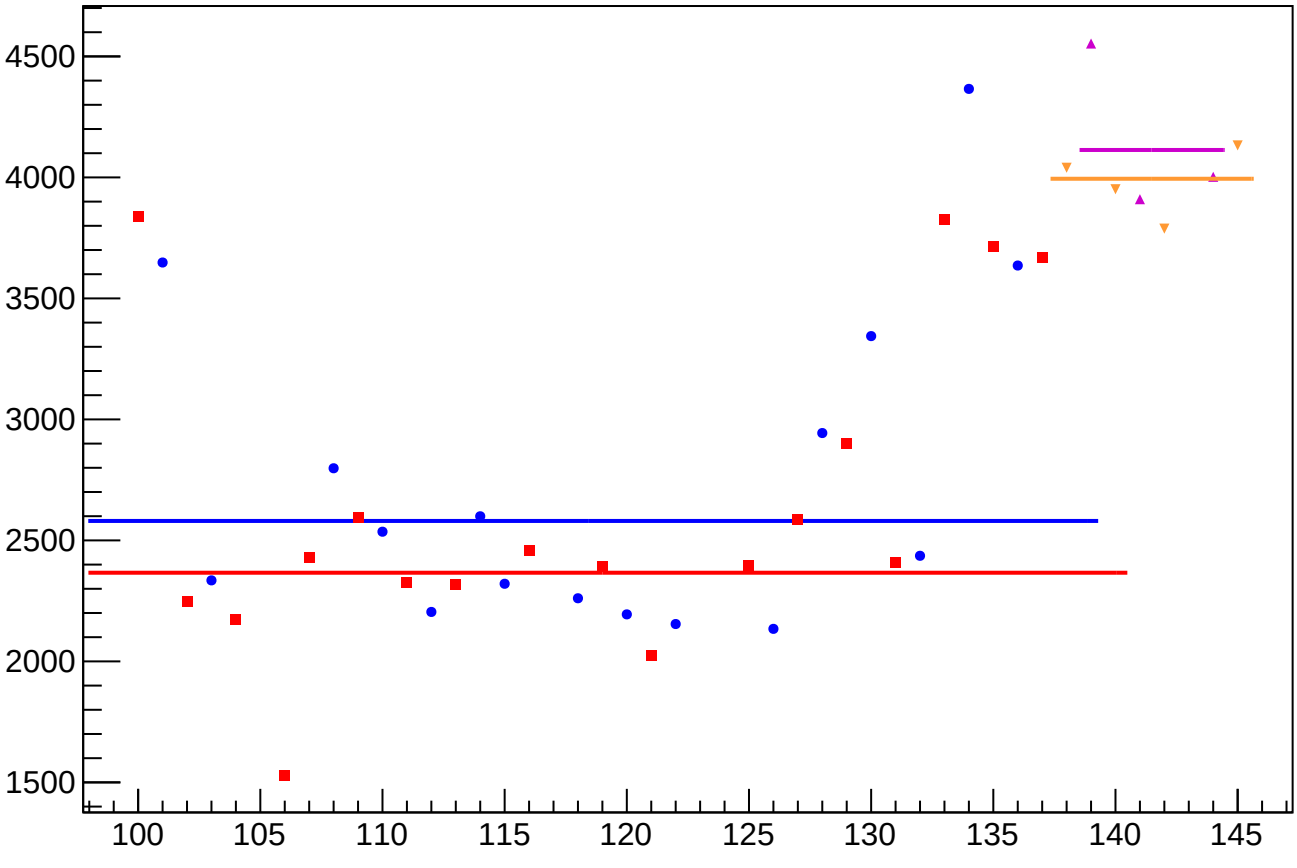
Left: -3390.500+/-1736.816 $\chi^2$/NDF: 5.2/6

Right: 151.392+/-662.006 $\chi^2$/NDF: 32.2/33

In: 443.401+/-918.843 $\chi^2$/NDF:15.6/18

Out: -912.426+/-836.580 $\chi^2$/NDF:24.2/21

All: -297.911+/-618.594 $\chi^2$/NDF: 41.0/40




Right In: 2580.368+/-0.696 $\chi^2$/NDF: 617163.3/15

Left Out: 3994.439+/-1.676 $\chi^2$/NDF:4779.7/3

Right Out: 2366.405+/-0.632 $\chi^2$/NDF: 611698.8/17

Left In: 4113.374+/-1.805 $\chi^2$/NDF:21810.3/2

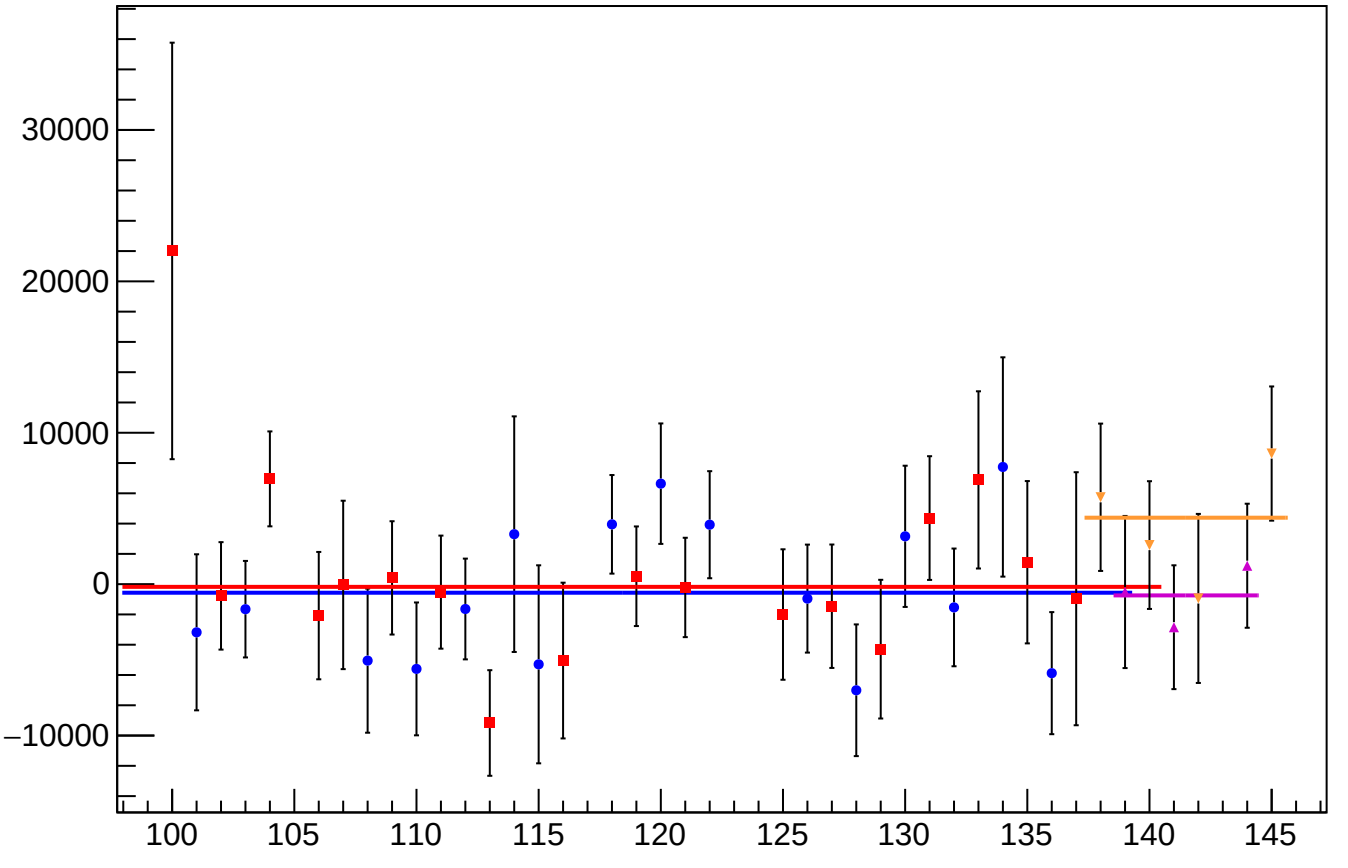
Left: 4049.519+/-1.228 $\chi^2$/NDF: 28922.0/6

Right: 2463.075+/-0.468 $\chi^2$/NDF: 1280607.2/33

In: 2779.070+/-0.650 $\chi^2$/NDF:1267036.7/18

Out: 2569.200+/-0.592 $\chi^2$/NDF:1442440.9/21

All: 2664.322+/-0.437 $\chi^2$/NDF: 2766525.8/40




Right In: -566.096+/-1040.314 $\chi^2$/NDF: 16.2/15

Left Out: 4389.675+/-2347.670 $\chi^2$/NDF:2.1/3

Right Out: -178.586+/-988.392 $\chi^2$/NDF: 19.5/17

Left In: -743.065+/-2507.860 $\chi^2$/NDF:0.5/2

Left: 1992.456+/-1713.888 $\chi^2$/NDF: 4.8/6

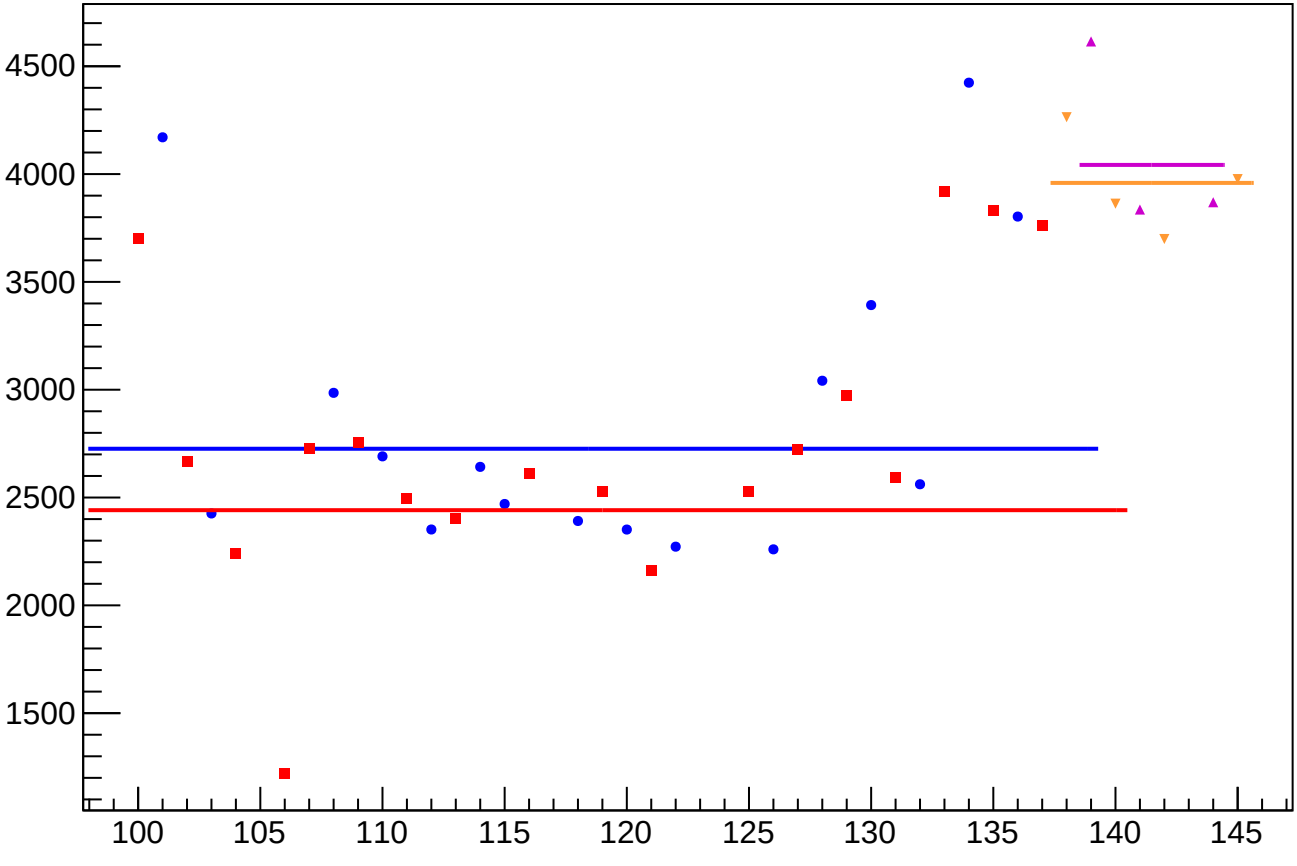
Right: -362.430+/-716.551 $\chi^2$/NDF: 35.8/33

In: -592.078+/-960.918 $\chi^2$/NDF:16.7/18

Out: 509.221+/-910.951 $\chi^2$/NDF:24.8/21

All: -12.052+/-661.099 $\chi^2$/NDF: 42.2/40

# asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 2726.231+/-0.736 $\chi^2$/NDF: 623079.8/15

Left Out: 3959.081+/-1.660 $\chi^2$/NDF:13258.8/3

Right Out: 2441.363+/-0.667 $\chi^2$/NDF: 891132.7/17

Left In: 4042.500+/-1.773 $\chi^2$/NDF:34669.8/2

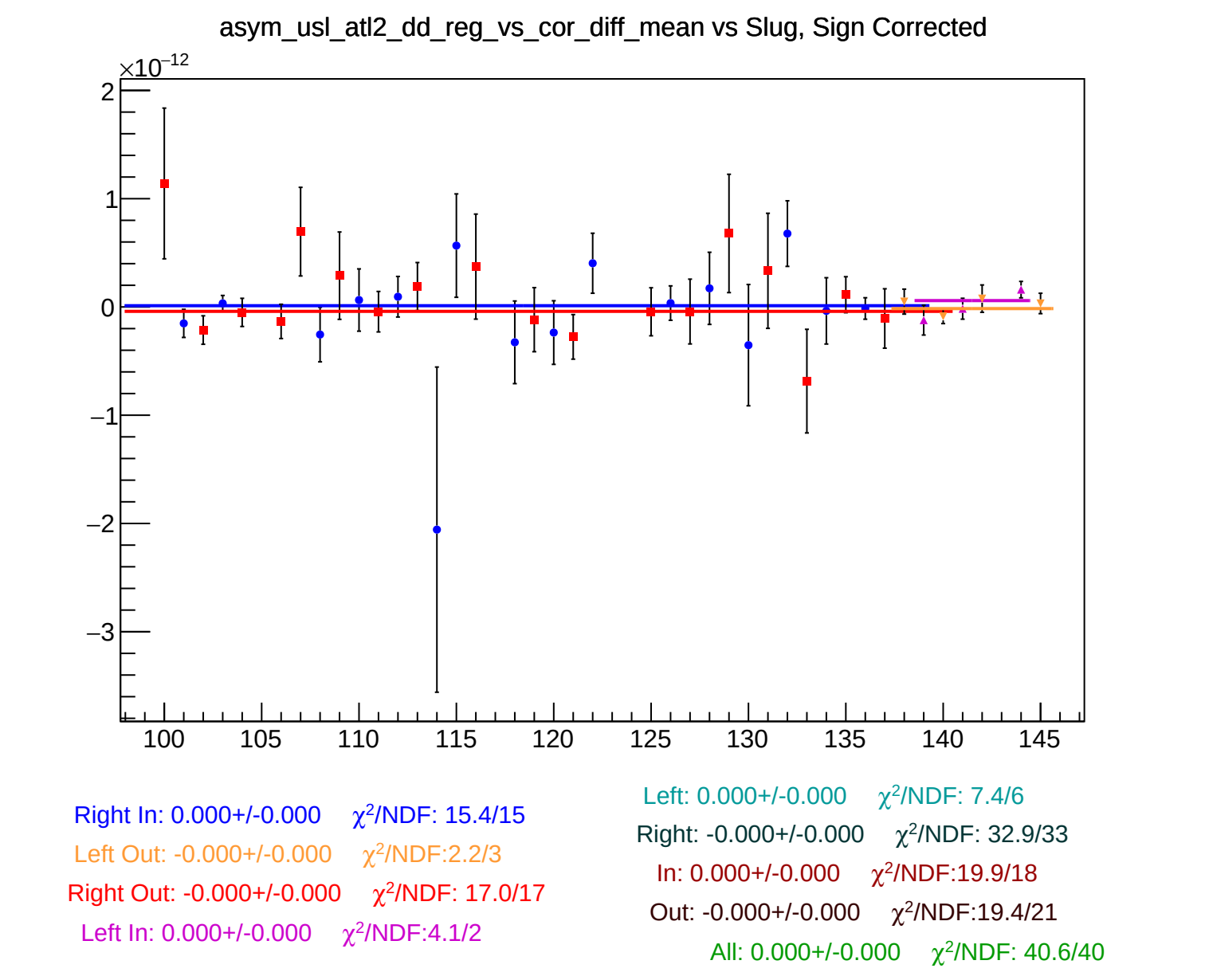
Left: 3998.041+/-1.212 $\chi^2$/NDF: 49108.0/6

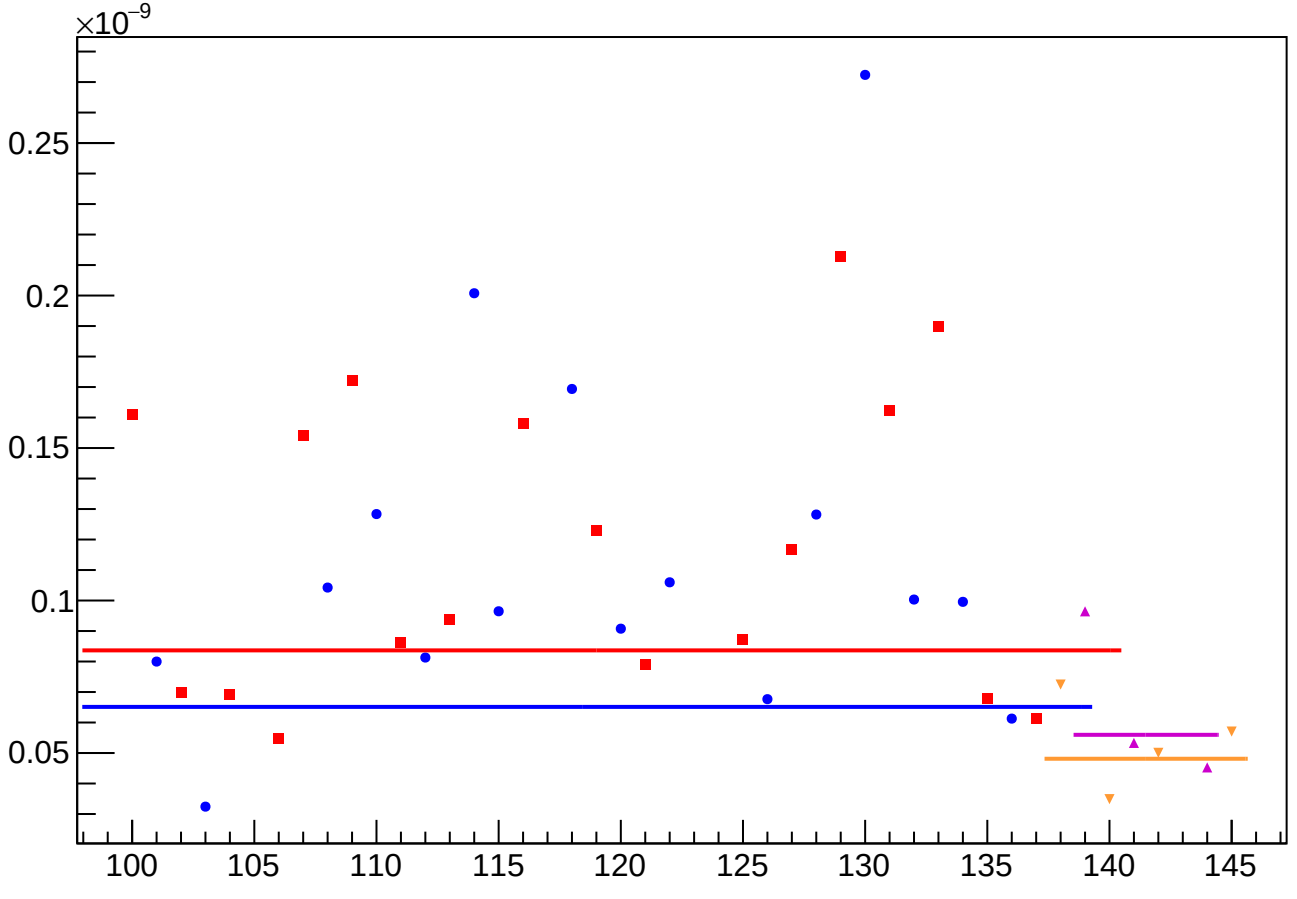
Right: 2569.883+/-0.494 $\chi^2$/NDF: 1596520.0/33

In: 2919.477+/-0.679 $\chi^2$/NDF:1127813.0/18

Out: 2652.292+/-0.619 $\chi^2$/NDF:1624092.9/21

All: 2773.439+/-0.458 $\chi^2$/NDF: 2836421.2/40


asym_usl_atl2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 15.4/15
Left Out: -0.000+/-0.000 χ²/NDF:2.2/3
Right Out: -0.000+/-0.000 χ²/NDF: 17.0/17
Left In: 0.000+/-0.000 χ²/NDF:4.1/2
Left: 0.000+/-0.000 χ²/NDF: 7.4/6
Right: -0.000+/-0.000 χ²/NDF: 32.9/33
In: 0.000+/-0.000 χ²/NDF:19.9/18
Out: -0.000+/-0.000 χ²/NDF:19.4/21
All: 0.000+/-0.000 χ²/NDF: 40.6/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1222613.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:185950.1/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 691494.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:214922.3/2

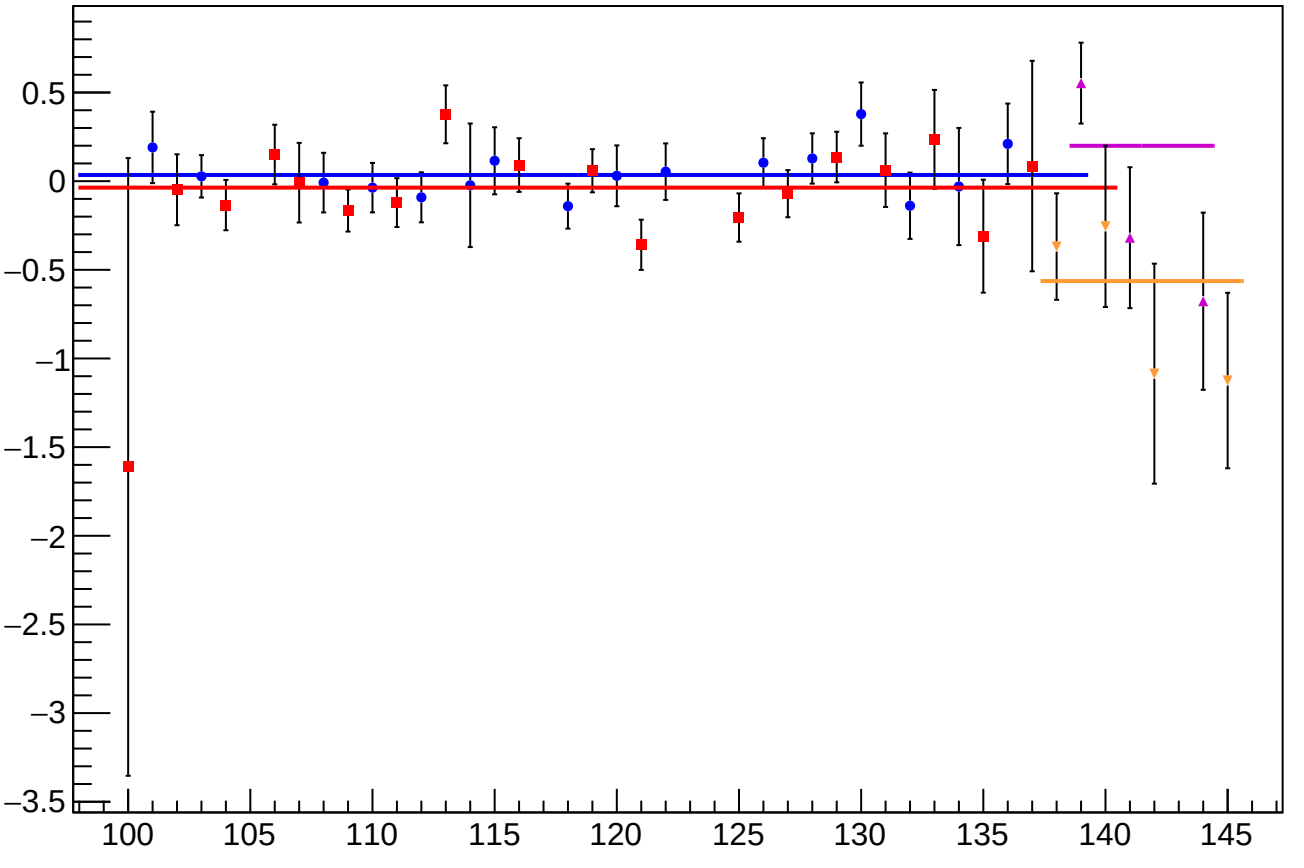
Left: 0.000+/-0.000 $\chi^2$/NDF: 425020.5/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 2057625.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:1471560.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:1387342.9/21

All: 0.000+/-0.000 $\chi^2$/NDF: 2861409.8/40




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: -0.563+/-0.210 $\chi^2$/NDF:2.9/3

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.199+/-0.184 $\chi^2$/NDF:7.2/2

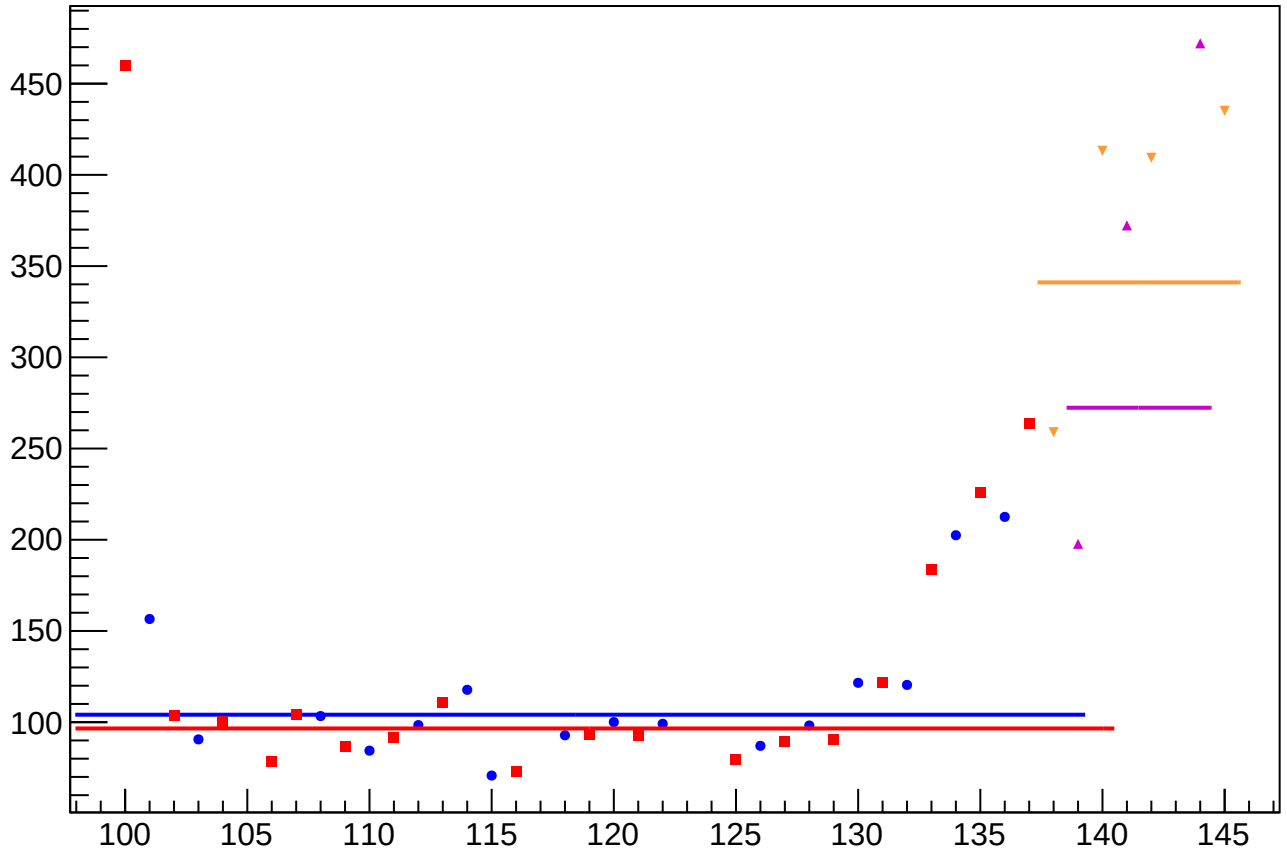
Left: -0.131+/-0.138 $\chi^2$/NDF: 17.5/6

Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.043+/-0.040 $\chi^2$/NDF:17.7/18

Out: -0.054+/-0.038 $\chi^2$/NDF:31.0/21

All: -0.008+/-0.028 $\chi^2$/NDF: 51.7/40




Right In: 104.099+/-0.029 $\chi^2$/NDF: 989856.1/15

Left Out: 341.072+/-0.149 $\chi^2$/NDF:296311.7/3

Right Out: 96.569+/-0.028 $\chi^2$/NDF: 955547.2/17

Left In: 272.357+/-0.130 $\chi^2$/NDF:660010.1/2

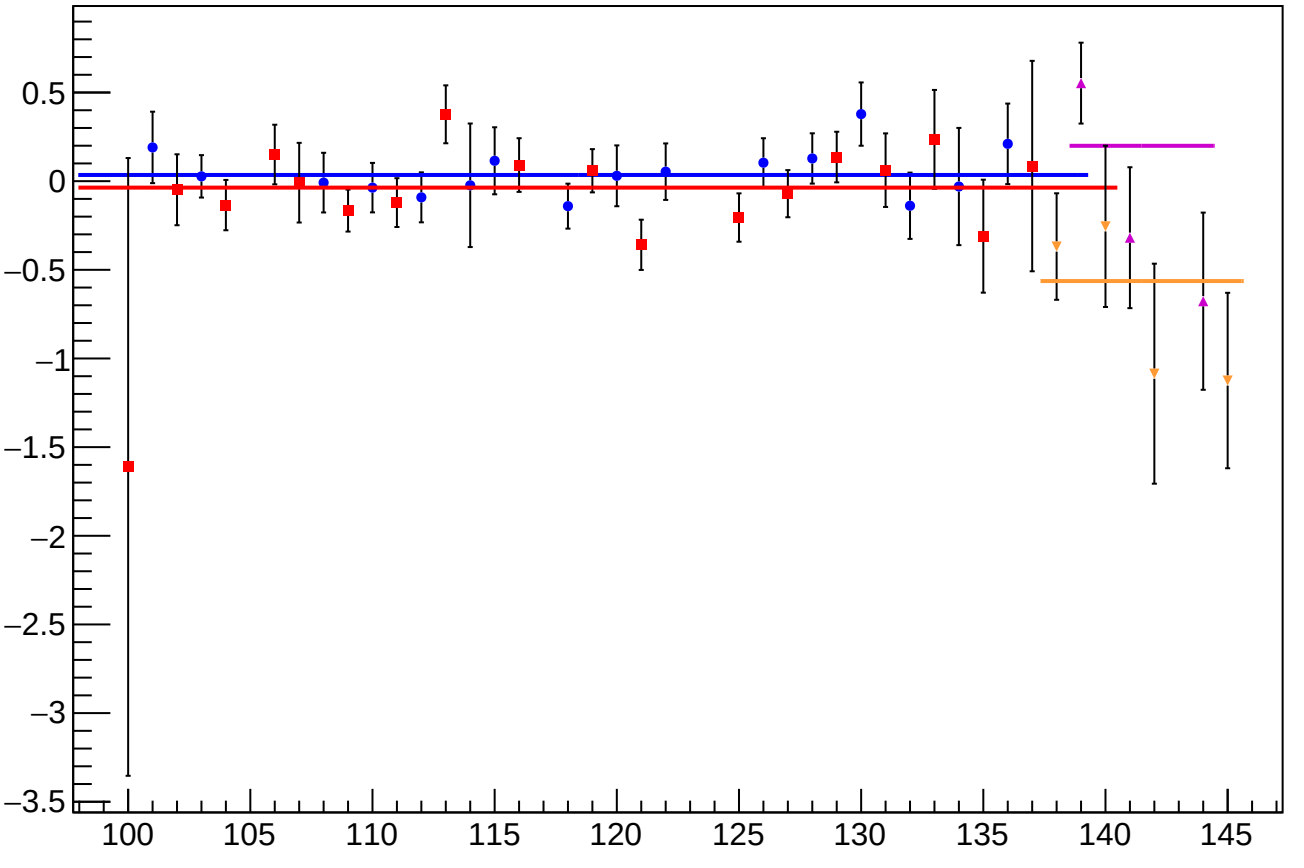
Left: 302.136+/-0.098 $\chi^2$/NDF: 1077283.2/6

Right: 100.134+/-0.020 $\chi^2$/NDF: 1980876.5/33

In: 112.075+/-0.028 $\chi^2$/NDF:3244090.2/18

Out: 104.656+/-0.027 $\chi^2$/NDF:3865213.1/21

All: 108.195+/-0.020 $\chi^2$/NDF: 7145194.5/40




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: -0.563+/-0.210 $\chi^2$/NDF:2.9/3

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.199+/-0.184 $\chi^2$/NDF:7.2/2

Left: -0.131+/-0.138 $\chi^2$/NDF: 17.5/6

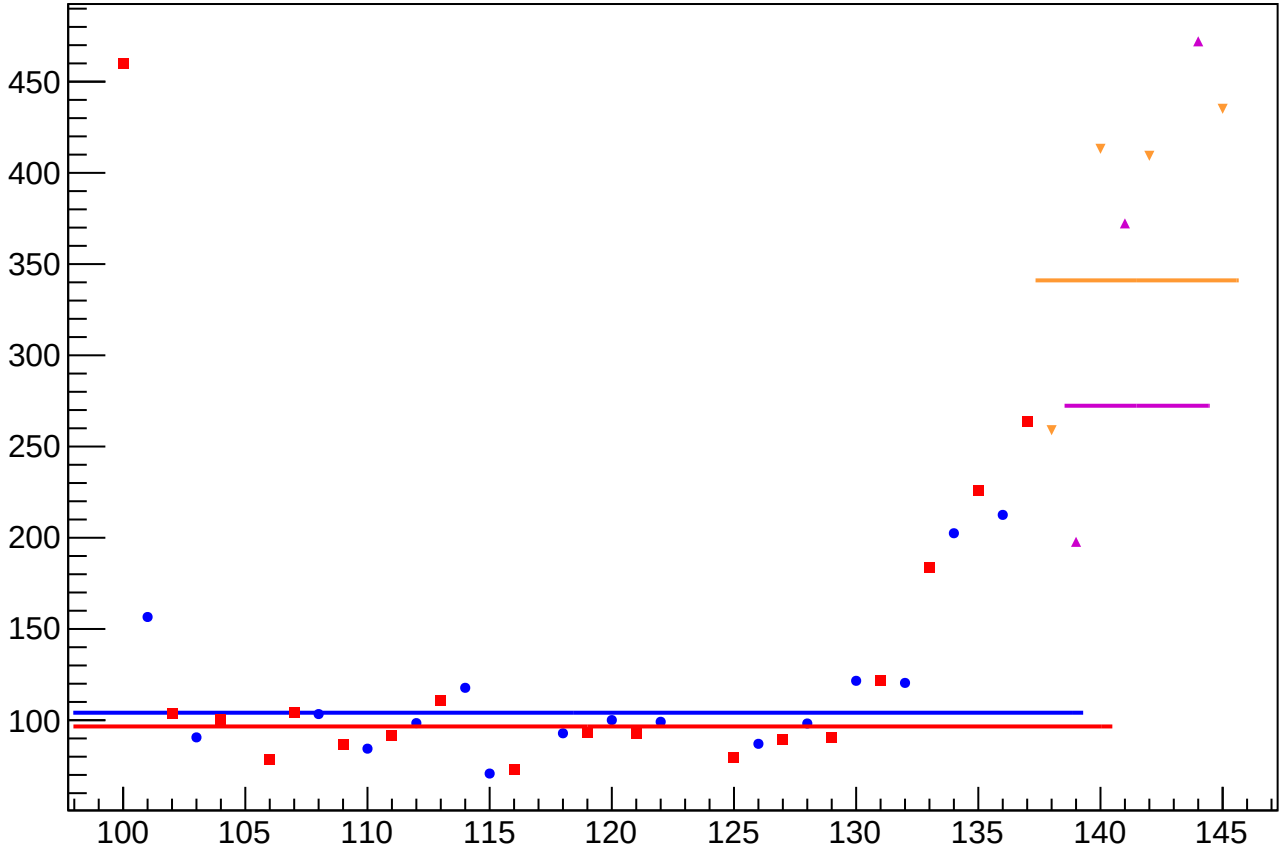
Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.043+/-0.040 $\chi^2$/NDF:17.7/18

Out: -0.054+/-0.038 $\chi^2$/NDF:31.0/21

All: -0.008+/-0.028 $\chi^2$/NDF: 51.7/40

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 104.099+/-0.029 $\chi^2$/NDF: 989856.1/15

Left Out: 341.072+/-0.149 $\chi^2$/NDF:296311.7/3

Right Out: 96.569+/-0.028 $\chi^2$/NDF: 955547.2/17

Left In: 272.357+/-0.130 $\chi^2$/NDF:660010.1/2

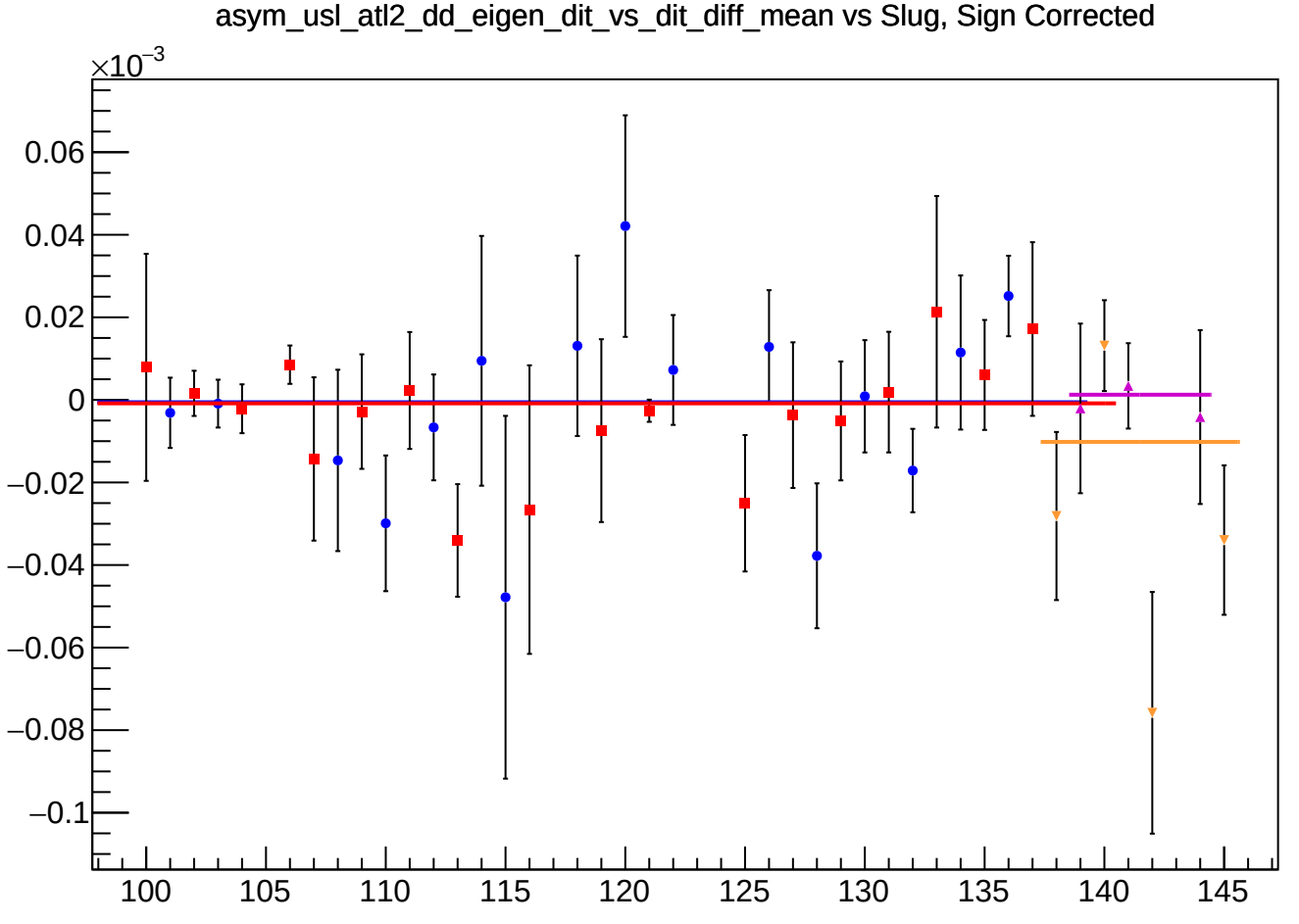
Left: 302.136+/-0.098 $\chi^2$/NDF: 1077283.2/6

Right: 100.134+/-0.020 $\chi^2$/NDF: 1980876.5/33

In: 112.075+/-0.028 $\chi^2$/NDF:3244090.2/18

Out: 104.656+/-0.027 $\chi^2$/NDF:3865213.1/21

All: 108.195+/-0.020 $\chi^2$/NDF: 7145194.5/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 24.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:12.0/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.1/2

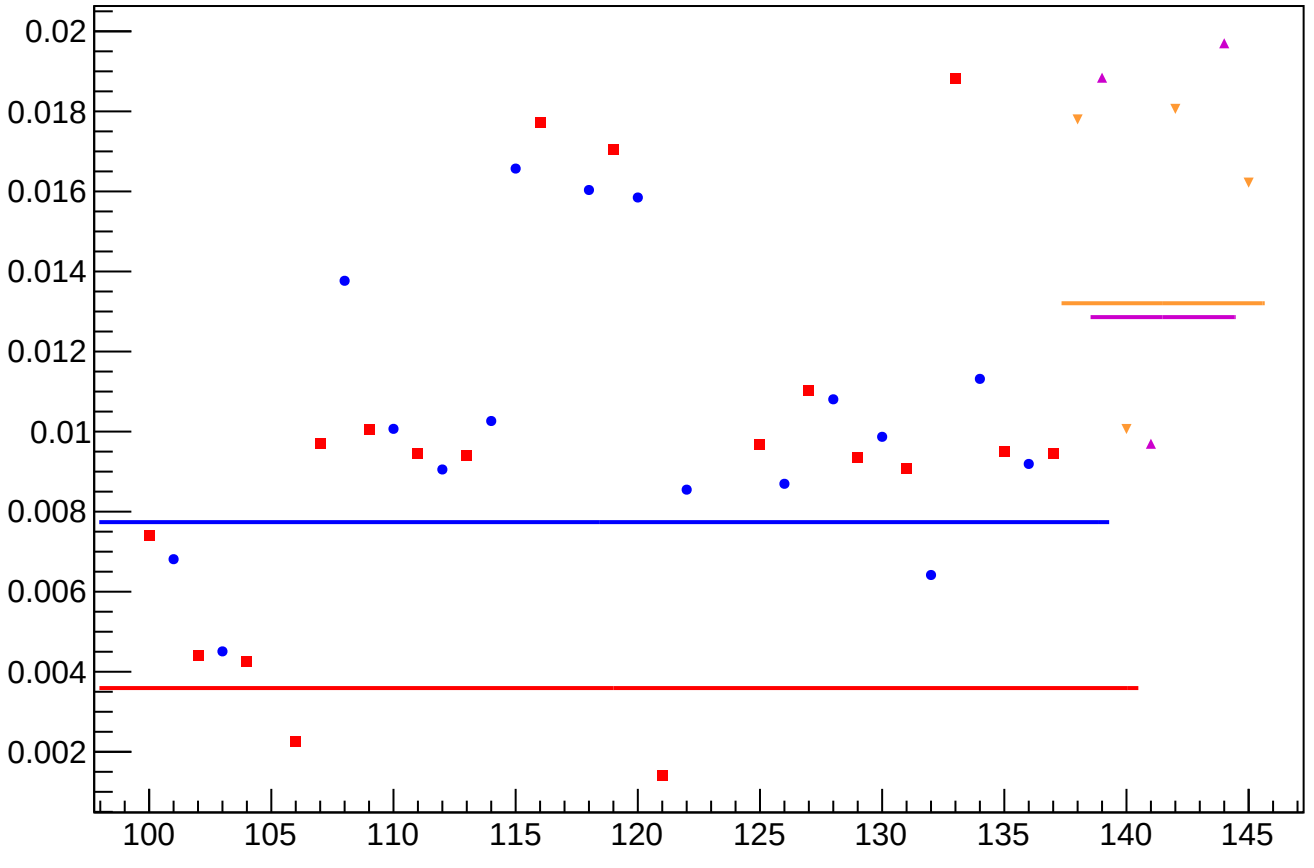
Left: -0.000+/-0.000 $\chi^2$/NDF: 13.1/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/33

In: -0.000+/-0.000 $\chi^2$/NDF:24.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:29.1/21

All: -0.000+/-0.000 $\chi^2$/NDF: 53.3/40




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1701473.5/15

Left Out: 0.013+/-0.000 $\chi^2$/NDF:375196.4/3

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 6364883.4/17

Left In: 0.013+/-0.000 $\chi^2$/NDF:567779.6/2

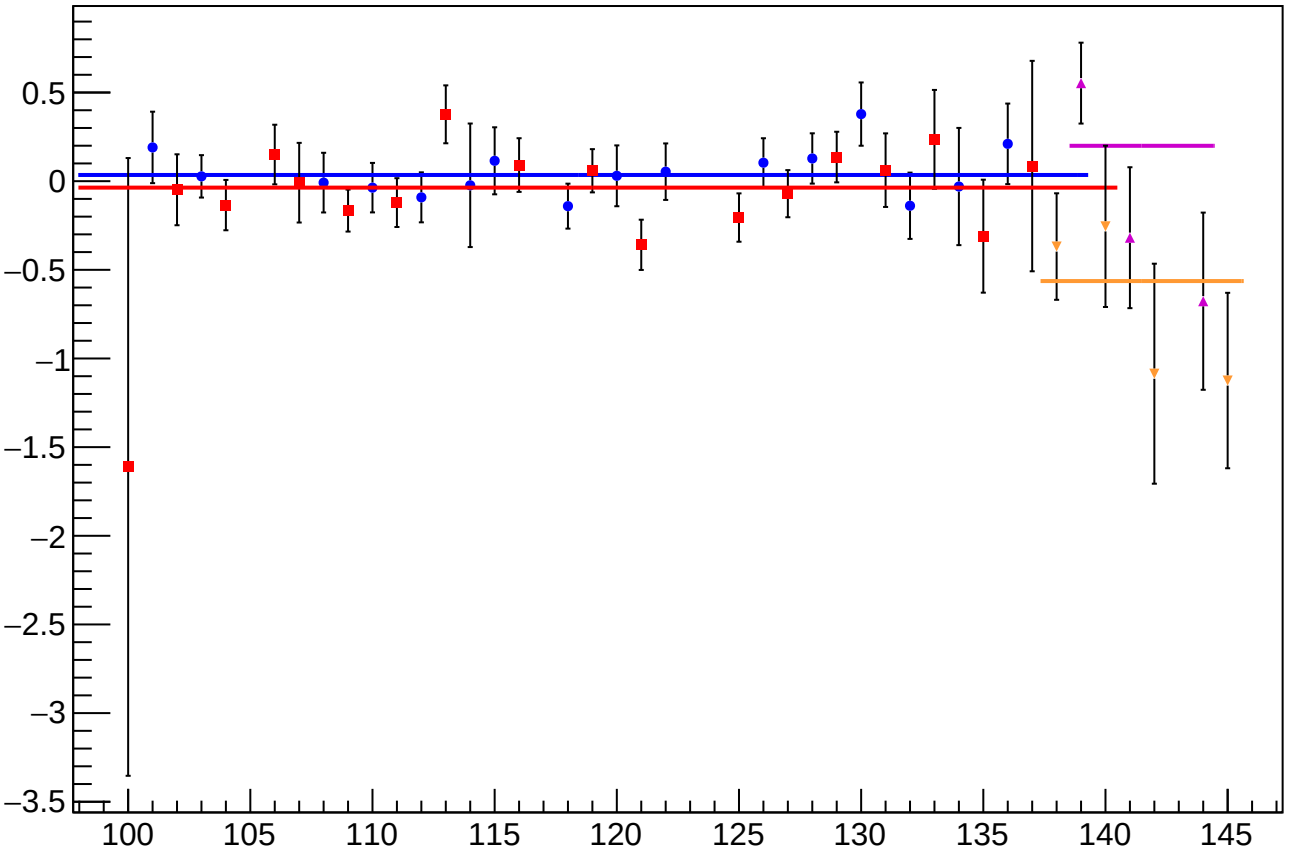
Left: 0.013+/-0.000 $\chi^2$/NDF: 944704.5/6

Right: 0.005+/-0.000 $\chi^2$/NDF: 10695382.9/33

In: 0.008+/-0.000 $\chi^2$/NDF:2915241.8/18

Out: 0.004+/-0.000 $\chi^2$/NDF:9359555.7/21

All: 0.005+/-0.000 $\chi^2$/NDF: 15411417.6/40




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: -0.563+/-0.210 $\chi^2$/NDF:2.9/3

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.199+/-0.184 $\chi^2$/NDF:7.2/2

Left: -0.131+/-0.138 $\chi^2$/NDF: 17.5/6

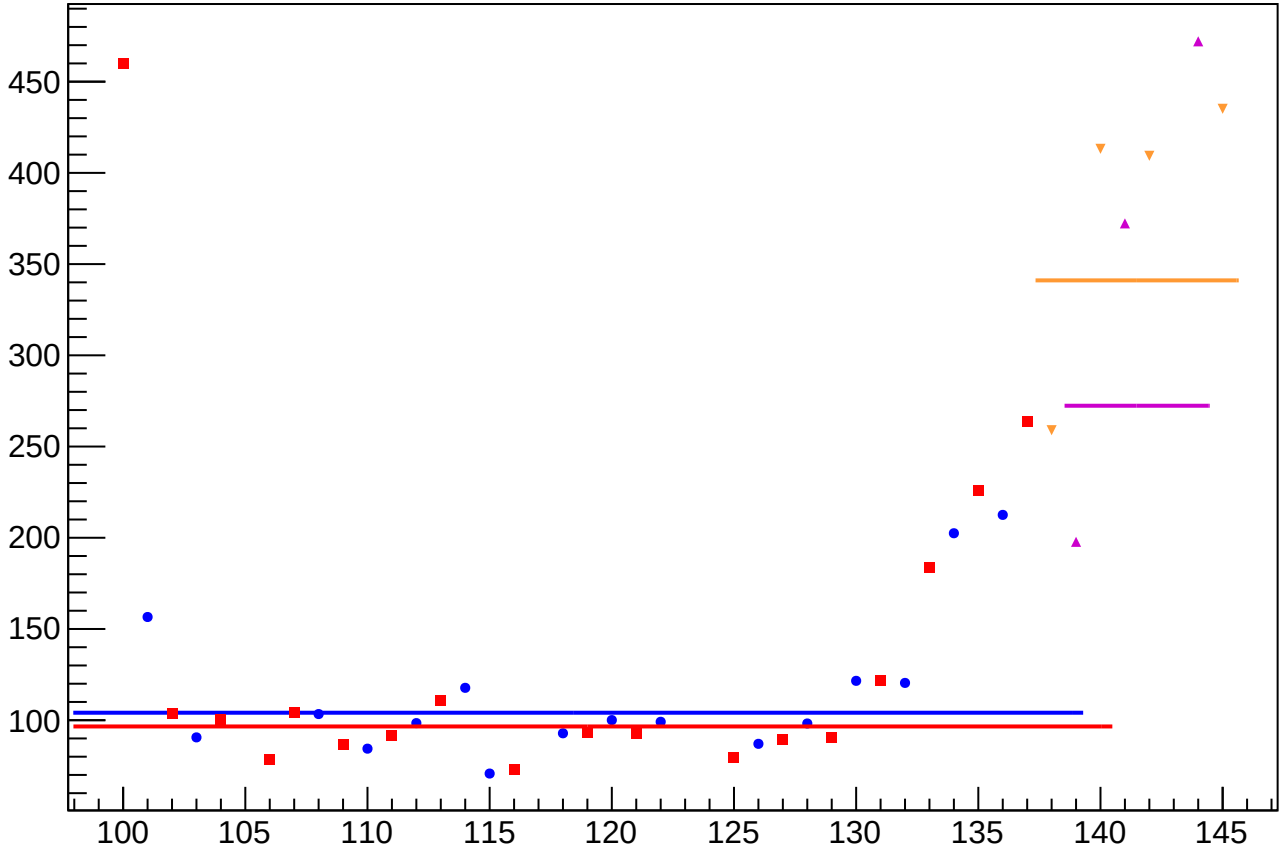
Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.043+/-0.040 $\chi^2$/NDF:17.7/18

Out: -0.054+/-0.038 $\chi^2$/NDF:31.0/21

All: -0.008+/-0.028 $\chi^2$/NDF: 51.7/40

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 104.100+/-0.029 $\chi^2$/NDF: 989809.0/15

Left Out: 341.076+/-0.149 $\chi^2$/NDF:296328.6/3

Right Out: 96.570+/-0.028 $\chi^2$/NDF: 955477.2/17

Left In: 272.364+/-0.130 $\chi^2$/NDF:659989.9/2

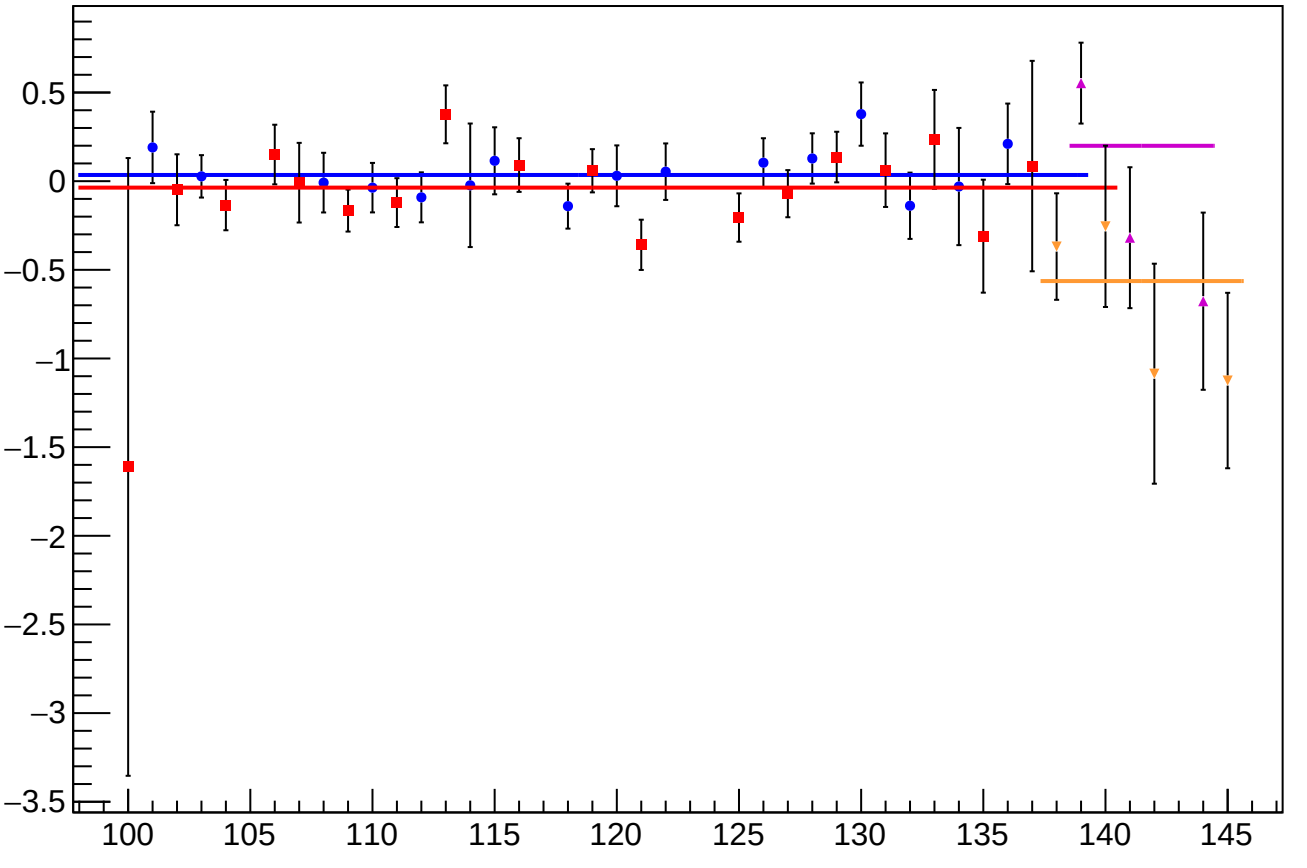
Left: 302.142+/-0.098 $\chi^2$/NDF: 1077266.0/6

Right: 100.135+/-0.020 $\chi^2$/NDF: 1980754.7/33

In: 112.076+/-0.028 $\chi^2$/NDF:3244066.3/18

Out: 104.657+/-0.027 $\chi^2$/NDF:3865153.2/21

All: 108.196+/-0.020 $\chi^2$/NDF: 7145105.8/40




Right In: 0.035+/-0.041 $\chi^2$/NDF: 9.8/15

Left Out: -0.563+/-0.210 $\chi^2$/NDF:2.9/3

Right Out: -0.036+/-0.039 $\chi^2$/NDF: 22.0/17

Left In: 0.199+/-0.184 $\chi^2$/NDF:7.2/2

Left: -0.131+/-0.138 $\chi^2$/NDF: 17.5/6

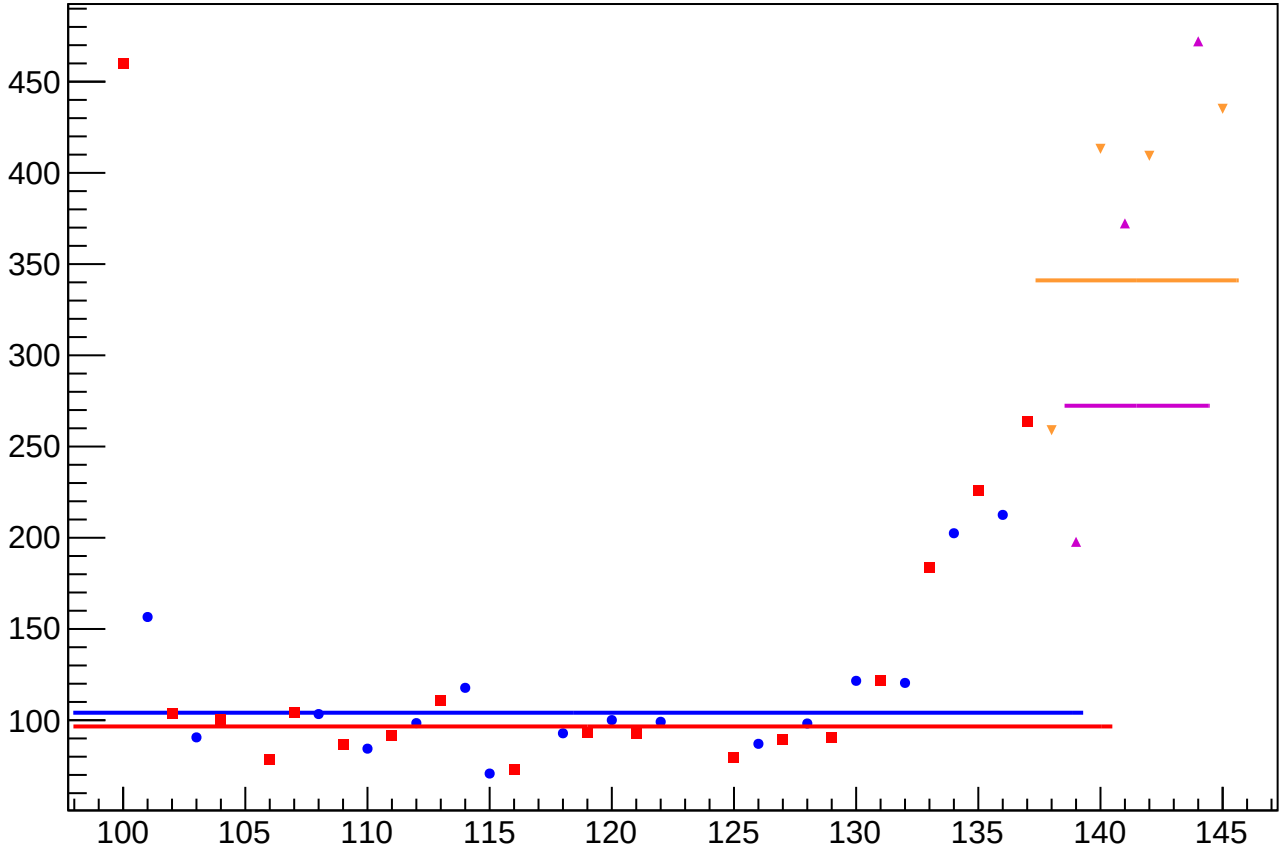
Right: -0.003+/-0.028 $\chi^2$/NDF: 33.4/33

In: 0.043+/-0.040 $\chi^2$/NDF:17.7/18

Out: -0.054+/-0.038 $\chi^2$/NDF:31.0/21

All: -0.008+/-0.028 $\chi^2$/NDF: 51.7/40

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 104.100+/-0.029 $\chi^2$/NDF: 989809.0/15

Left Out: 341.076+/-0.149 $\chi^2$/NDF:296328.6/3

Right Out: 96.570+/-0.028 $\chi^2$/NDF: 955477.2/17

Left In: 272.364+/-0.130 $\chi^2$/NDF:659989.9/2

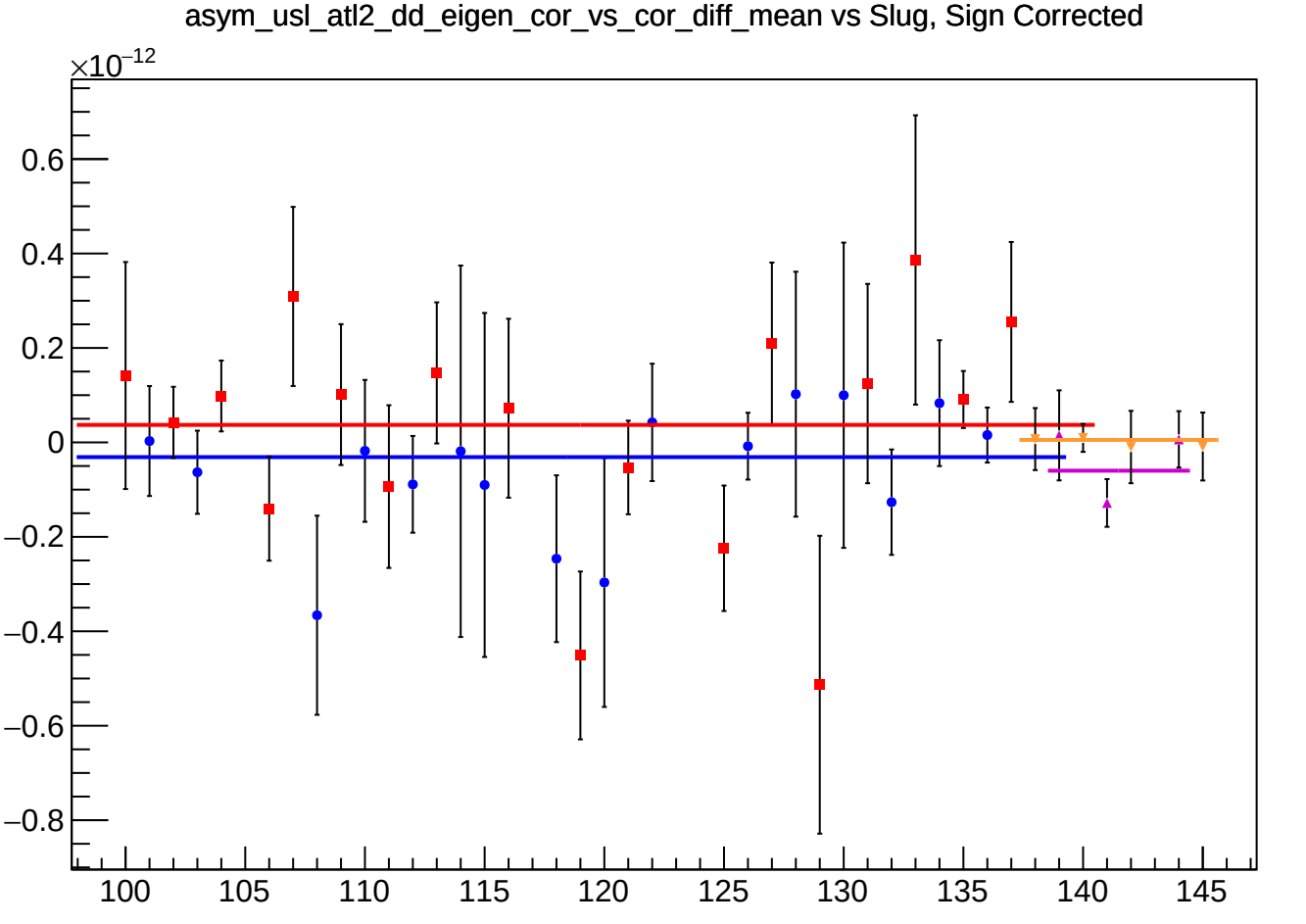
Left: 302.142+/-0.098 $\chi^2$/NDF: 1077266.0/6

Right: 100.135+/-0.020 $\chi^2$/NDF: 1980754.7/33

In: 112.076+/-0.028 $\chi^2$/NDF:3244066.3/18

Out: 104.657+/-0.027 $\chi^2$/NDF:3865153.2/21

All: 108.196+/-0.020 $\chi^2$/NDF: 7145105.8/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.1/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 27.0/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.7/2

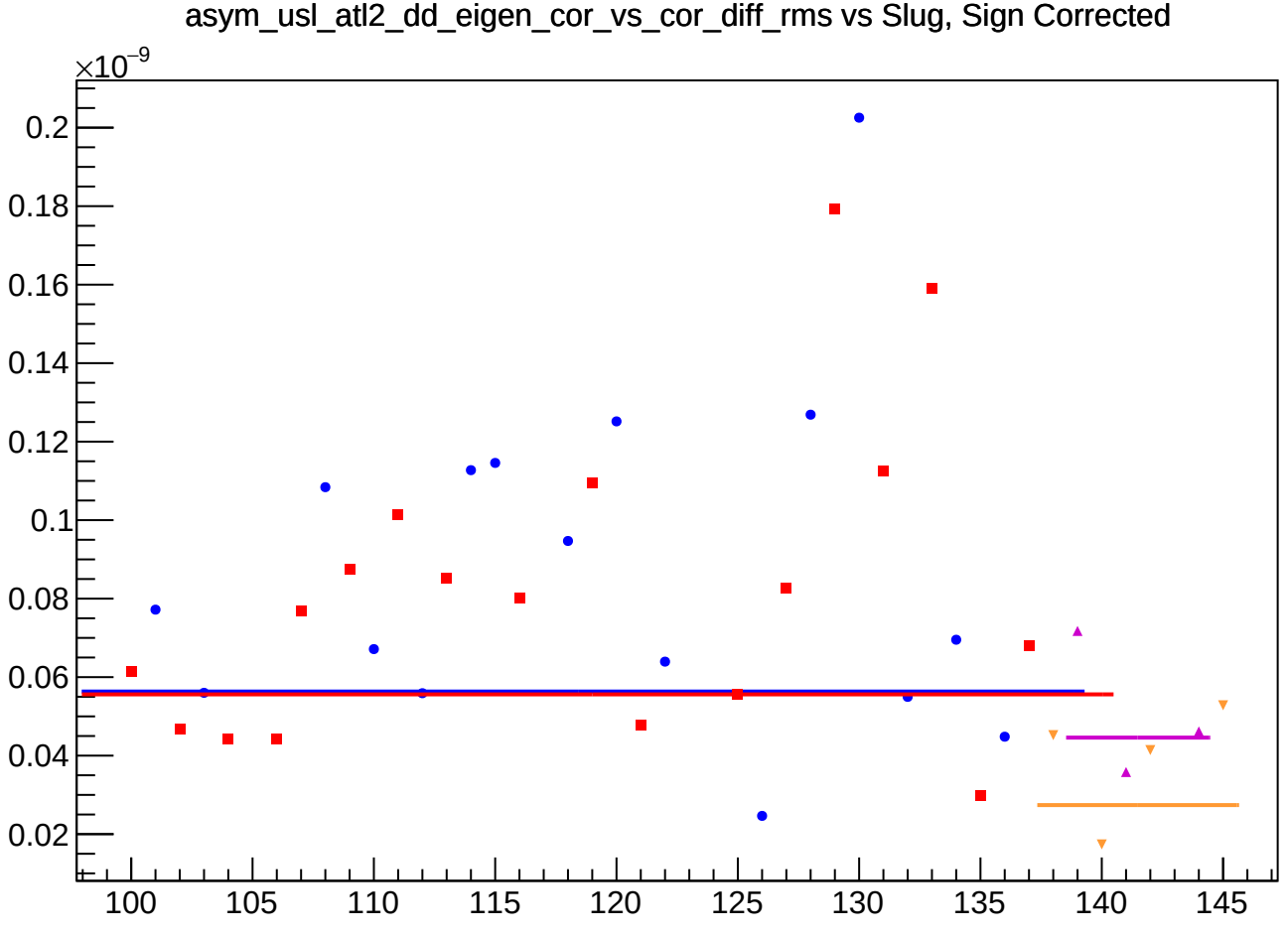
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.1/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.4/33

In: -0.000+/-0.000 $\chi^2$/NDF:12.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:27.9/21

All: -0.000+/-0.000 $\chi^2$/NDF: 44.9/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1582688.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:692939.0/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1767462.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:224176.2/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 1235685.2/6

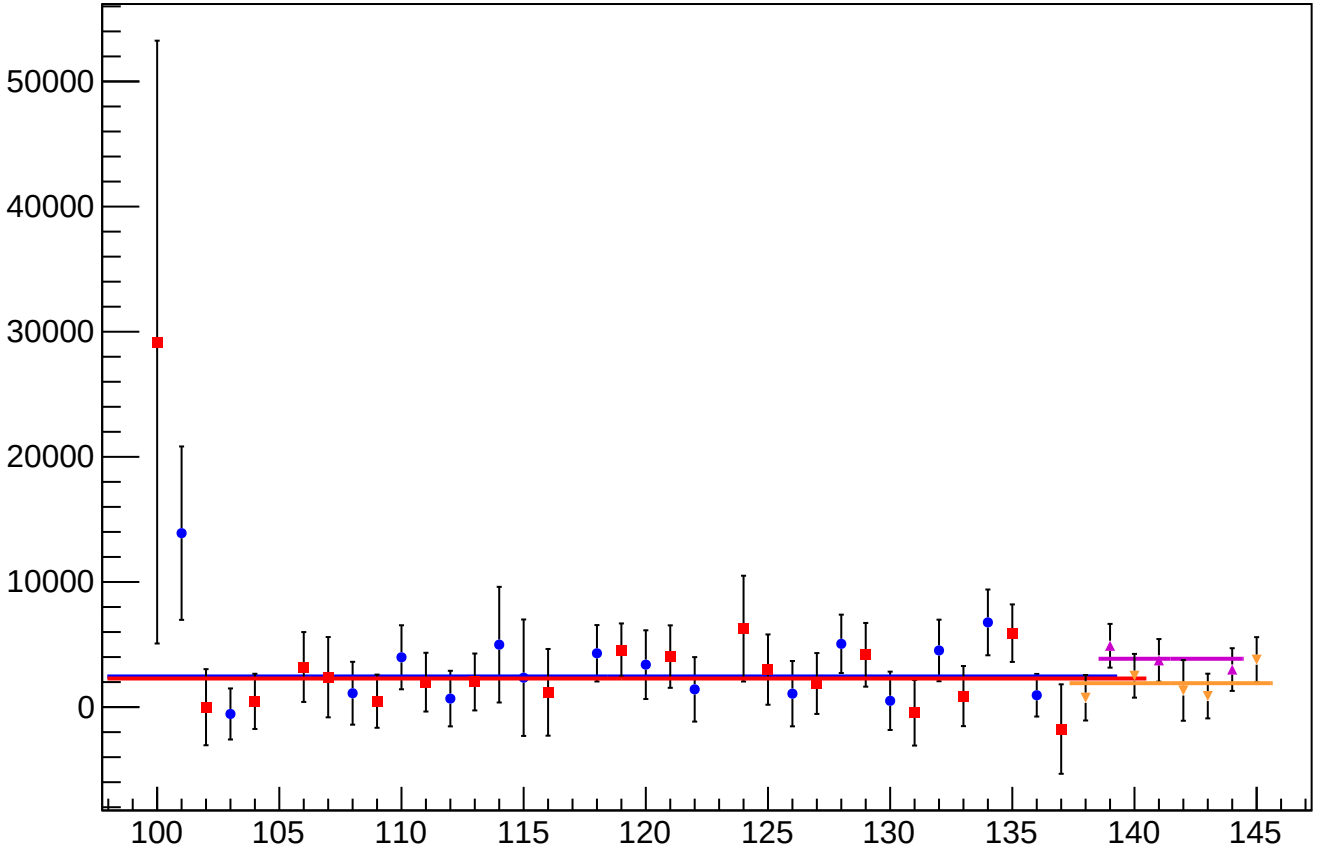
Right: 0.000+/-0.000 $\chi^2$/NDF: 3350763.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:1934887.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3594868.8/21

All: 0.000+/-0.000 $\chi^2$/NDF: 5898850.1/40

# reg_asym_usr_atr1_avg_mean vs Slug, Sign Corrected




Right In: 2449.957+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 1911.614+/-838.687 $\chi^2$/NDF:2.0/4

Right Out: 2286.573+/-609.157 $\chi^2$/NDF: 11.8/18

Left In: 3863.602+/-992.055 $\chi^2$/NDF:0.6/2

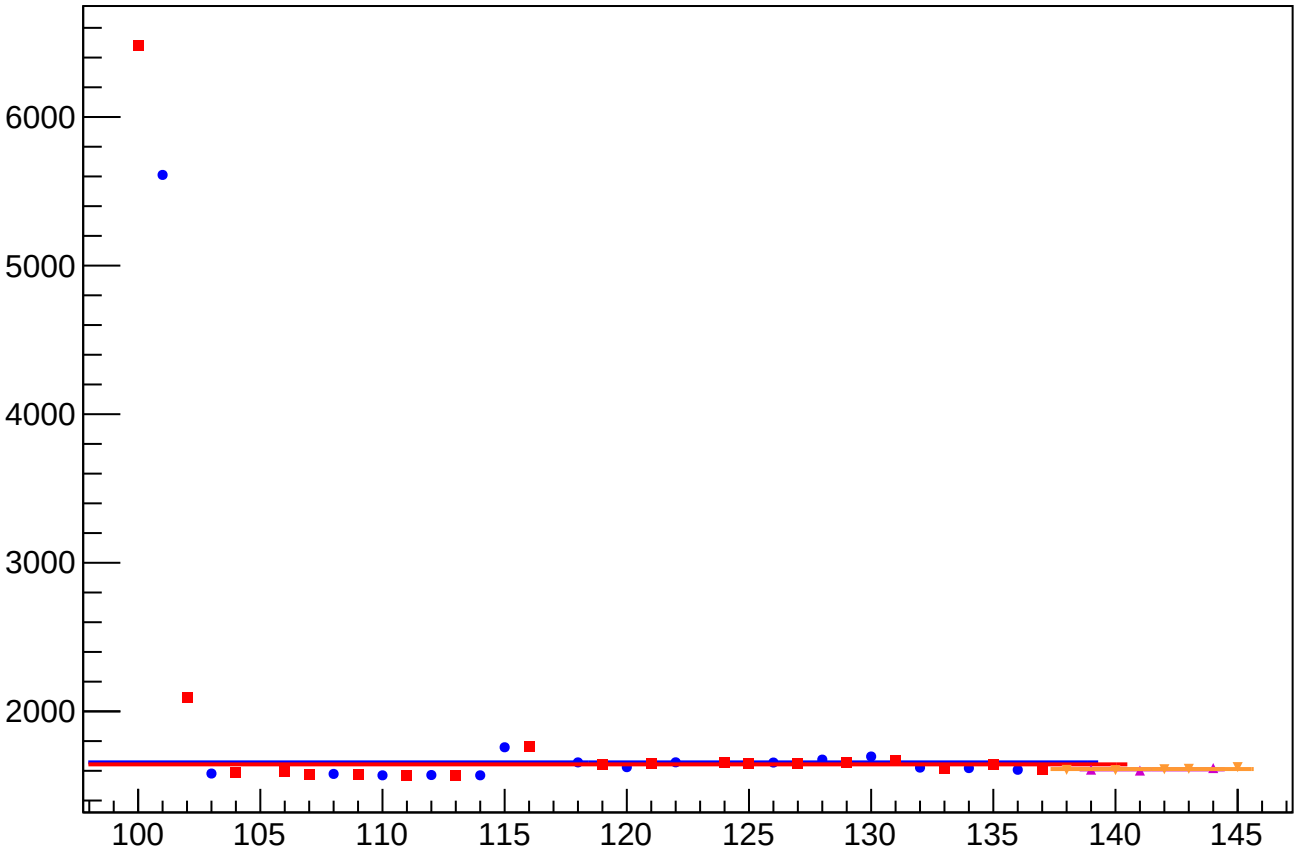
Left: 2725.222+/-640.479 $\chi^2$/NDF: 4.9/7

Right: 2365.487+/-438.001 $\chi^2$/NDF: 25.7/34

In: 2856.433+/-531.965 $\chi^2$/NDF:15.9/18

Out: 2157.079+/-492.870 $\chi^2$/NDF:14.0/23

All: 2480.116+/-361.544 $\chi^2$/NDF: 30.8/42




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666226.2/15

Left Out: 1611.872+/-0.593 $\chi^2$/NDF:154.6/4

Right Out: 1643.430+/-0.431 $\chi^2$/NDF: 136997.9/18

Left In: 1609.467+/-0.701 $\chi^2$/NDF:99.9/2

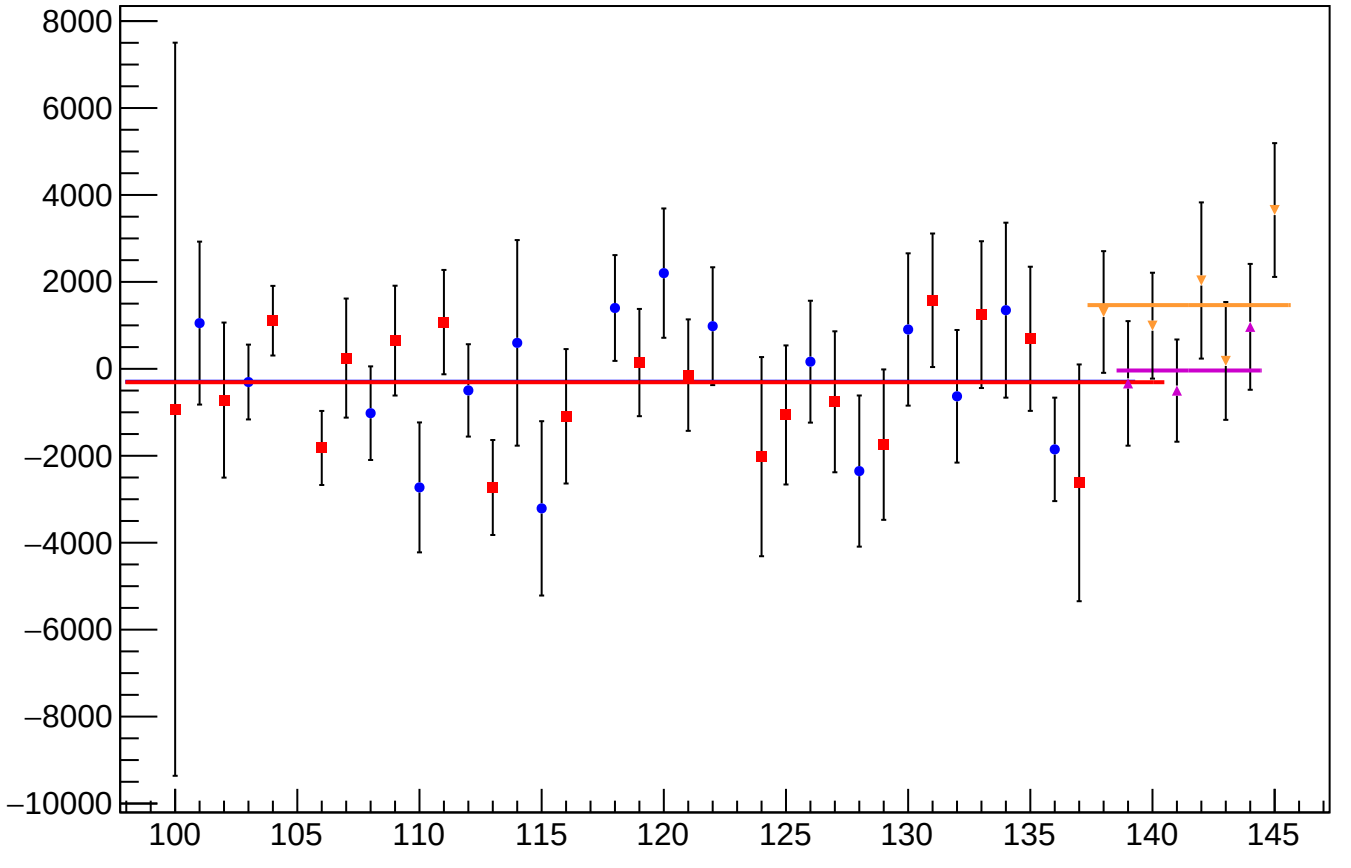
Left: 1610.870+/-0.453 $\chi^2$/NDF: 261.3/7

Right: 1649.831+/-0.310 $\chi^2$/NDF: 803681.3/34

In: 1643.107+/-0.376 $\chi^2$/NDF:669553.8/18

Out: 1632.532+/-0.349 $\chi^2$/NDF:139006.2/23

All: 1637.416+/-0.256 $\chi^2$/NDF: 808985.3/42




Right In: -296.450+/-343.436 $\chi^2$/NDF: 16.0/15

Left Out: 1466.143+/-637.493 $\chi^2$/NDF:3.2/4

Right Out: -307.671+/-312.976 $\chi^2$/NDF: 18.7/18

Left In: -38.129+/-769.891 $\chi^2$/NDF:0.7/2

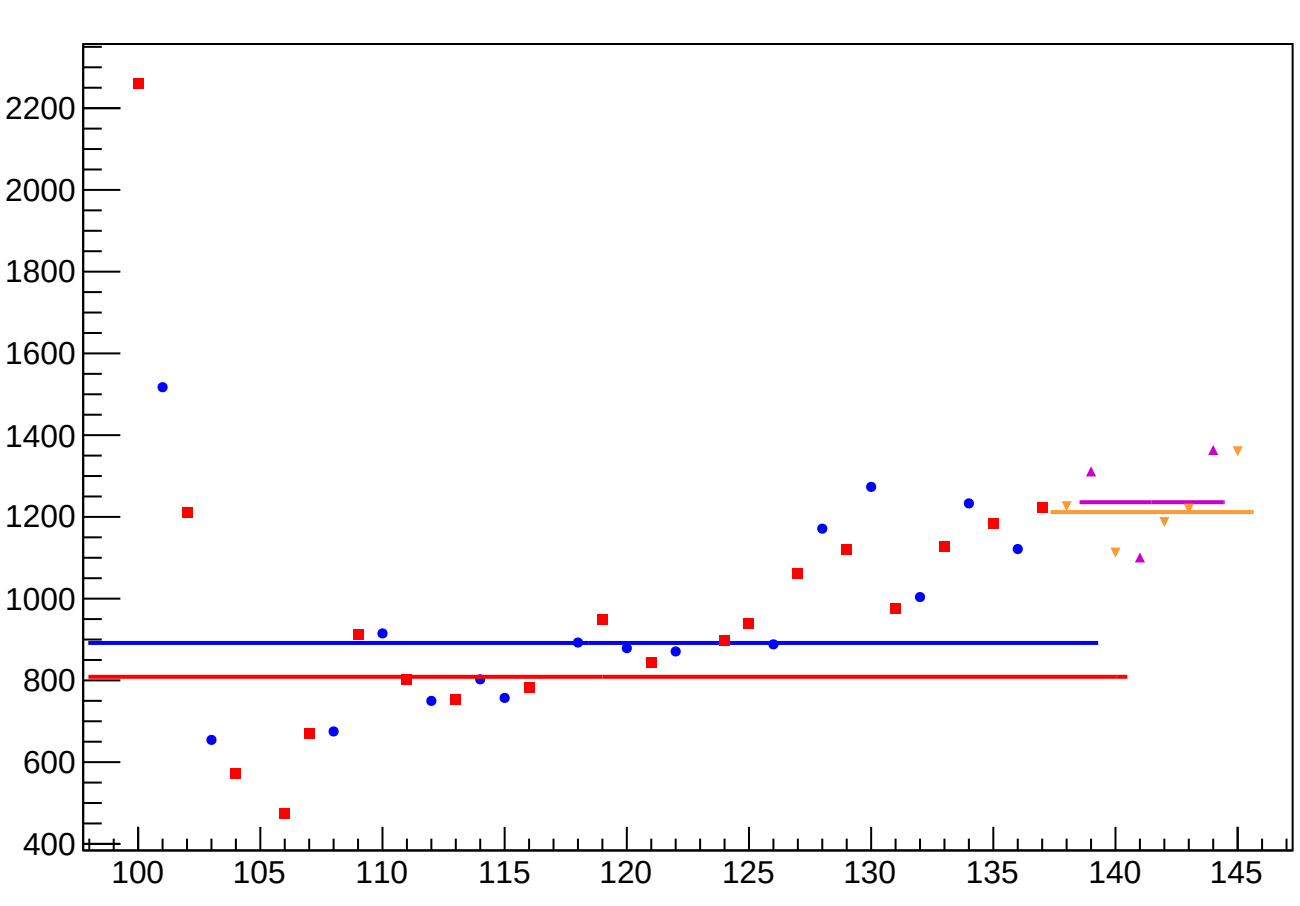
Left: 854.278+/-491.014 $\chi^2$/NDF: 6.1/7

Right: -302.580+/-231.328 $\chi^2$/NDF: 34.7/34

In: -253.578+/-313.645 $\chi^2$/NDF:16.7/18

Out: 36.836+/-280.944 $\chi^2$/NDF:28.1/23

All: -92.447+/-209.267 $\chi^2$/NDF: 45.3/42




Right In: 891.633+/-0.243 $\chi^2$/NDF: 793897.2/15

Left Out: 1211.816+/-0.451 $\chi^2$/NDF:32578.9/4

Right Out: 808.809+/-0.221 $\chi^2$/NDF: 1083841.8/18

Left In: 1235.958+/-0.544 $\chi^2$/NDF:47476.8/2

Left: 1221.636+/-0.347 $\chi^2$/NDF: 81222.3/7

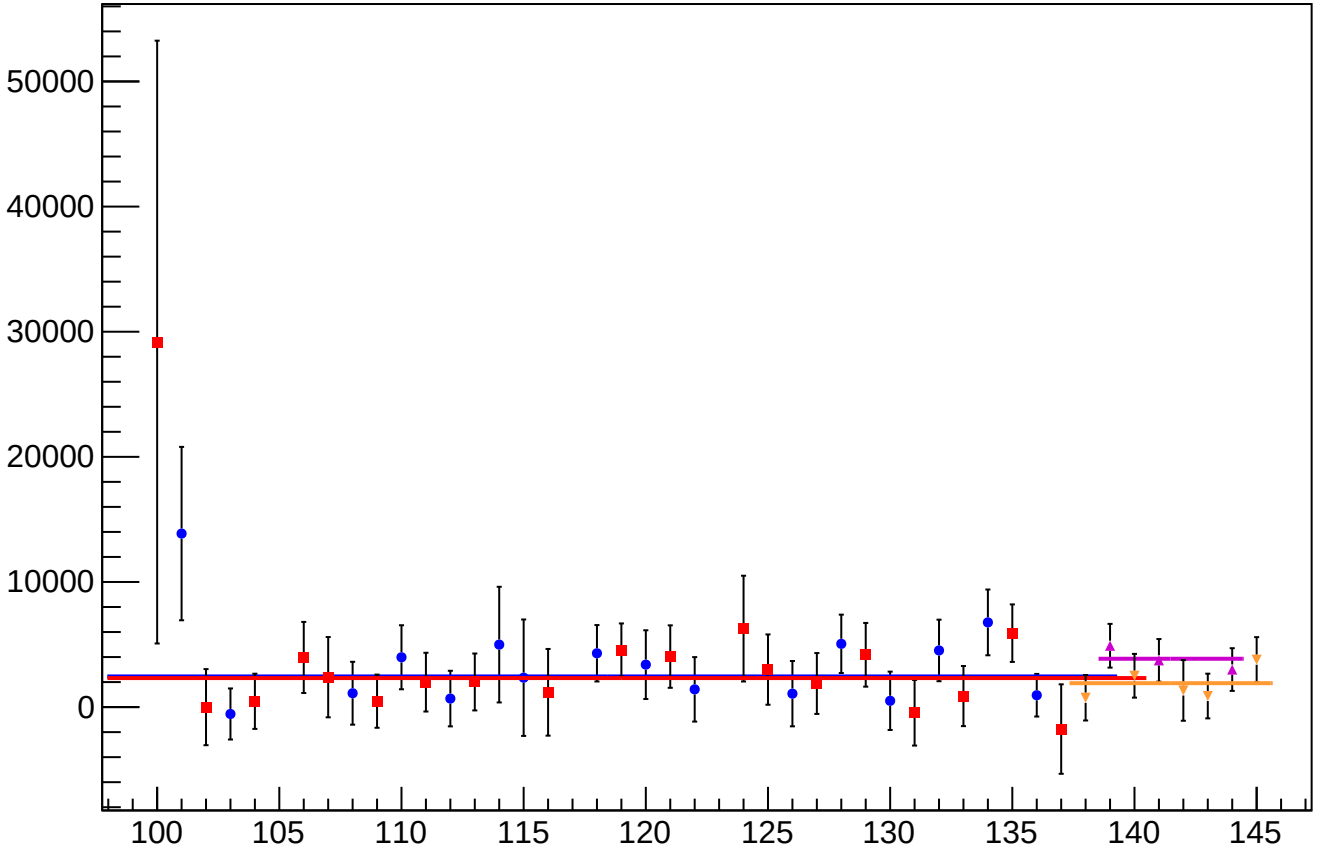
Right: 846.386+/-0.164 $\chi^2$/NDF: 1941284.0/34

In: 948.779+/-0.222 $\chi^2$/NDF:1175025.5/18

Out: 887.081+/-0.199 $\chi^2$/NDF:1760474.6/23

All: 914.547+/-0.148 $\chi^2$/NDF: 2978440.4/42

# cor_asym_usr_atr1_avg_mean vs Slug, Sign Corrected




Right In: 2449.397+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 1911.754+/-838.687 $\chi^2$/NDF:2.0/4

Right Out: 2320.575+/-609.657 $\chi^2$/NDF: 12.1/18

Left In: 3863.857+/-992.055 $\chi^2$/NDF:0.6/2

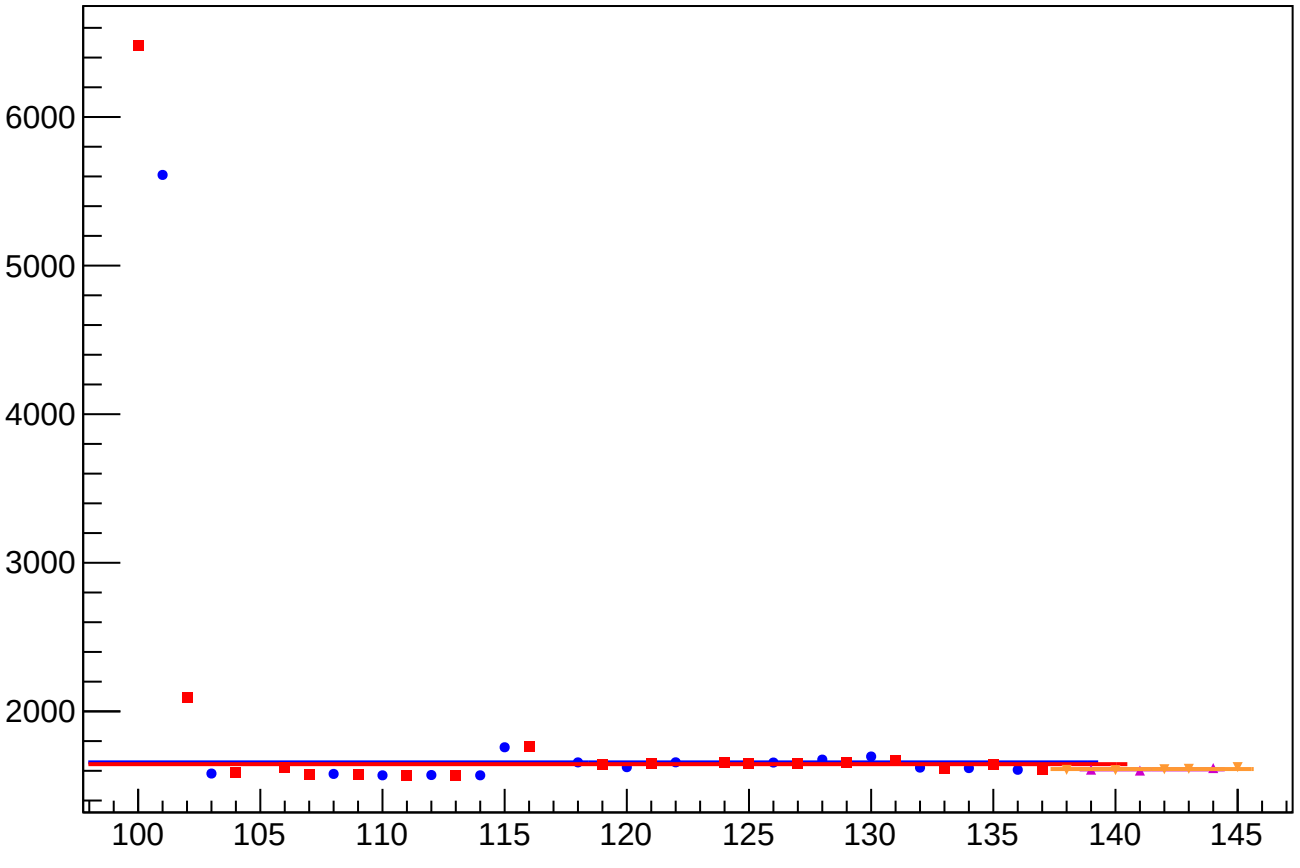
Left: 2725.410+/-640.479 $\chi^2$/NDF: 4.9/7

Right: 2382.848+/-438.187 $\chi^2$/NDF: 25.9/34

In: 2856.108+/-531.965 $\chi^2$/NDF:15.9/18

Out: 2179.235+/-493.135 $\chi^2$/NDF:14.2/23

All: 2492.068+/-361.648 $\chi^2$/NDF: 31.0/42




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666225.7/15

Left Out: 1611.872+/-0.593 $\chi^2$/NDF:154.6/4

Right Out: 1644.733+/-0.431 $\chi^2$/NDF: 136483.1/18

Left In: 1609.467+/-0.701 $\chi^2$/NDF:99.9/2

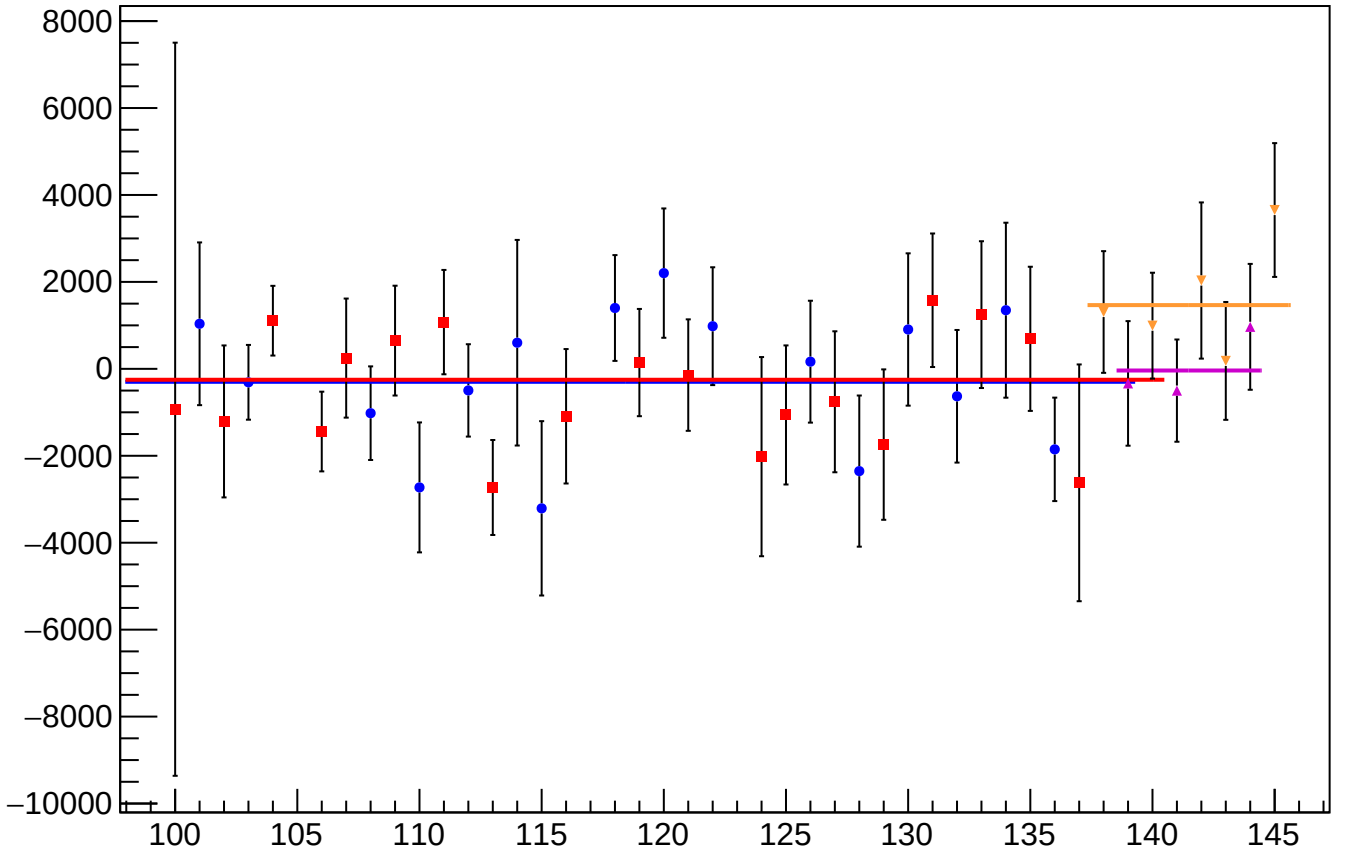
Left: 1610.870+/-0.453 $\chi^2$/NDF: 261.3/7

Right: 1650.510+/-0.310 $\chi^2$/NDF: 803080.3/34

In: 1643.107+/-0.376 $\chi^2$/NDF:669553.3/18

Out: 1633.372+/-0.349 $\chi^2$/NDF:138646.5/23

All: 1637.871+/-0.256 $\chi^2$/NDF: 808560.0/42




Right In: -297.794+/-343.391 $\chi^2$/NDF: 15.9/15

Left Out: 1466.253+/-637.487 $\chi^2$/NDF:3.2/4

Right Out: -251.230+/-315.749 $\chi^2$/NDF: 17.3/18

Left In: -38.232+/-769.893 $\chi^2$/NDF:0.7/2

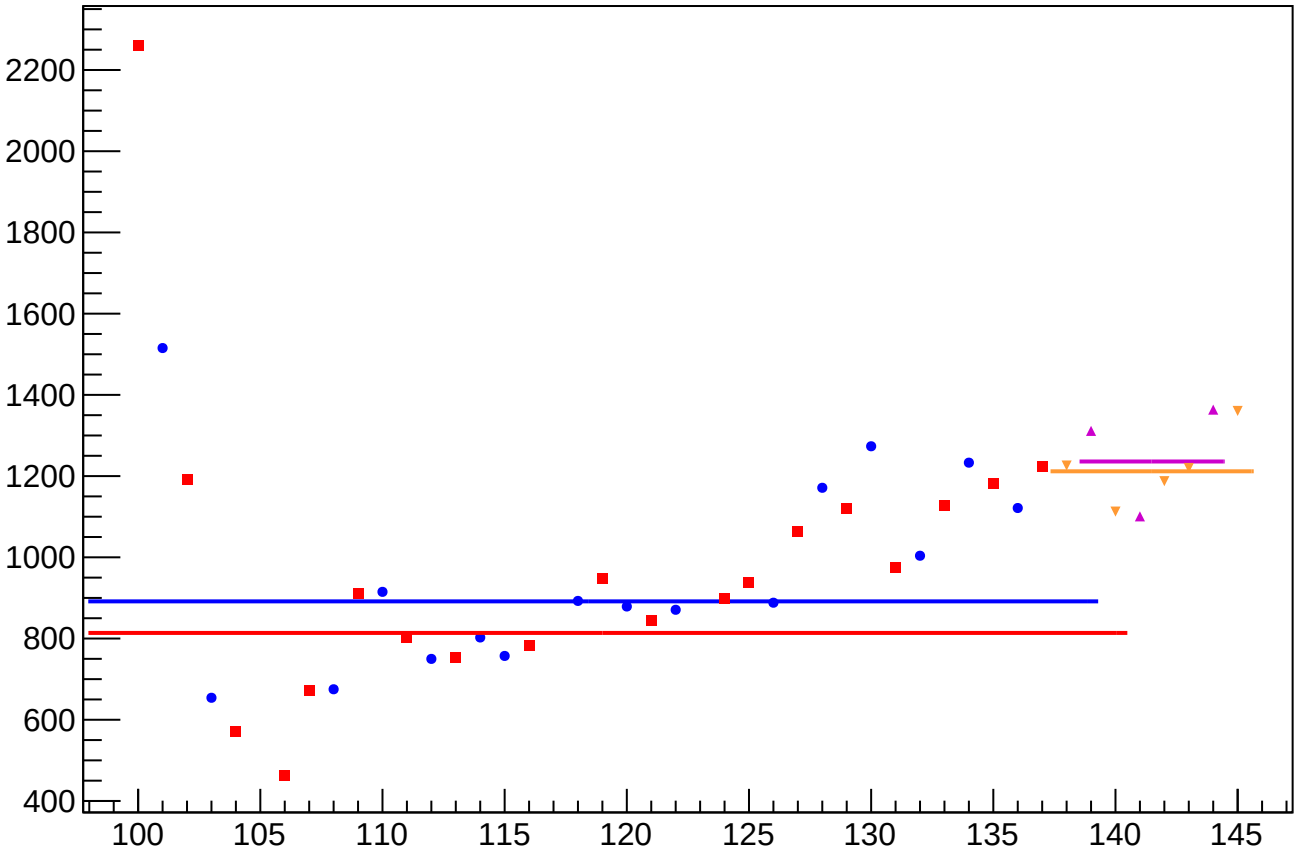
Left: 854.310+/-491.012 $\chi^2$/NDF: 6.1/7

Right: -272.563+/-232.427 $\chi^2$/NDF: 33.2/34

In: -254.725+/-313.610 $\chi^2$/NDF:16.7/18

Out: 87.108+/-282.944 $\chi^2$/NDF:26.3/23

All: -66.283+/-210.079 $\chi^2$/NDF: 43.6/42




Right In: 891.533+/-0.243 $\chi^2$/NDF: 793657.2/15

Left Out: 1211.804+/-0.451 $\chi^2$/NDF:32575.9/4

Right Out: 813.807+/-0.223 $\chi^2$/NDF: 1052991.6/18

Left In: 1235.960+/-0.544 $\chi^2$/NDF:47483.9/2

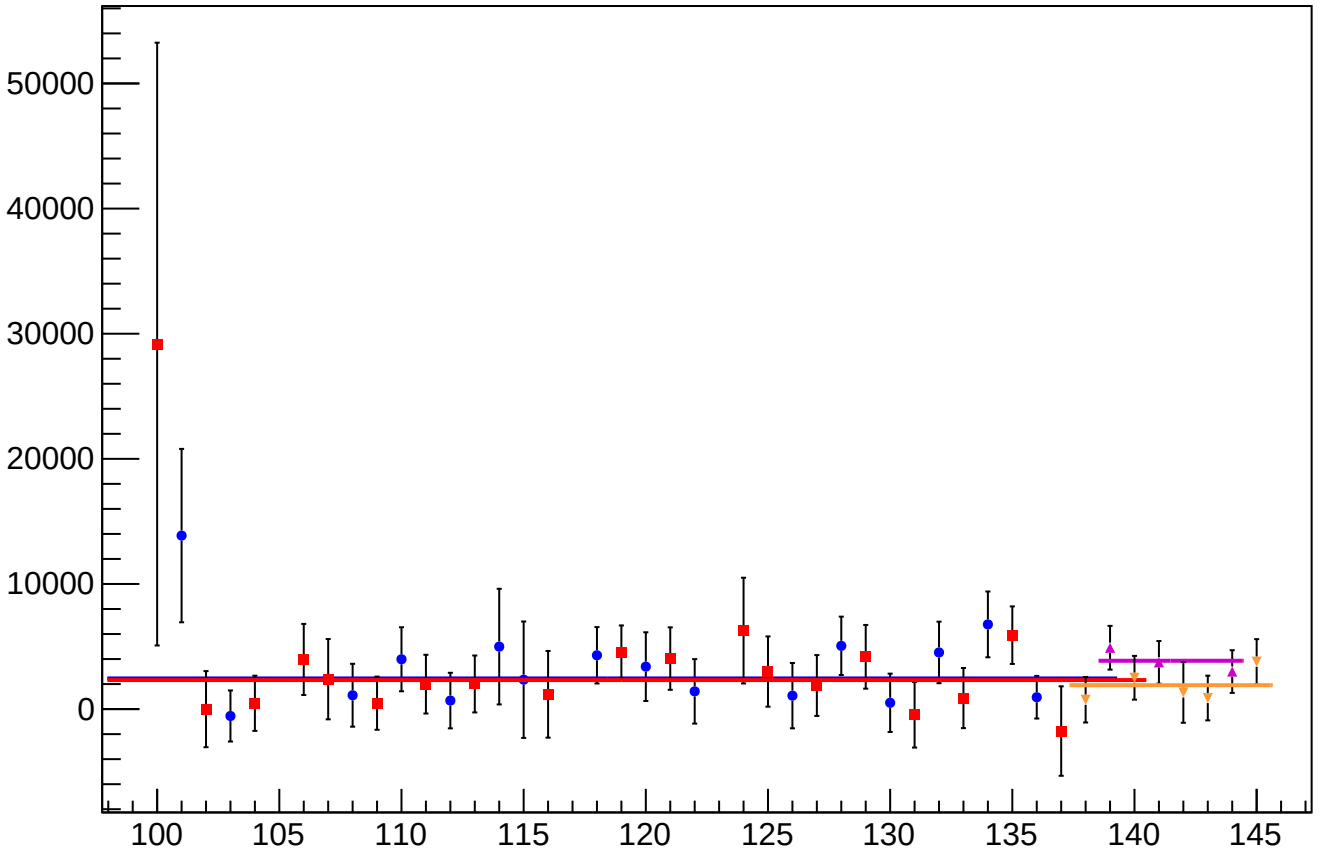
Left: 1221.629+/-0.347 $\chi^2$/NDF: 81227.9/7

Right: 849.416+/-0.164 $\chi^2$/NDF: 1902171.7/34

In: 948.683+/-0.222 $\chi^2$/NDF:1175004.1/18

Out: 892.211+/-0.200 $\chi^2$/NDF:1711551.5/23

All: 917.552+/-0.149 $\chi^2$/NDF: 2922305.9/42




Right In: 2449.397+/-630.235 $\chi^2$/NDF: 13.8/15

Left Out: 1911.754+/-838.687 $\chi^2$/NDF:2.0/4

Right Out: 2320.575+/-609.657 $\chi^2$/NDF: 12.1/18

Left In: 3863.857+/-992.055 $\chi^2$/NDF:0.6/2

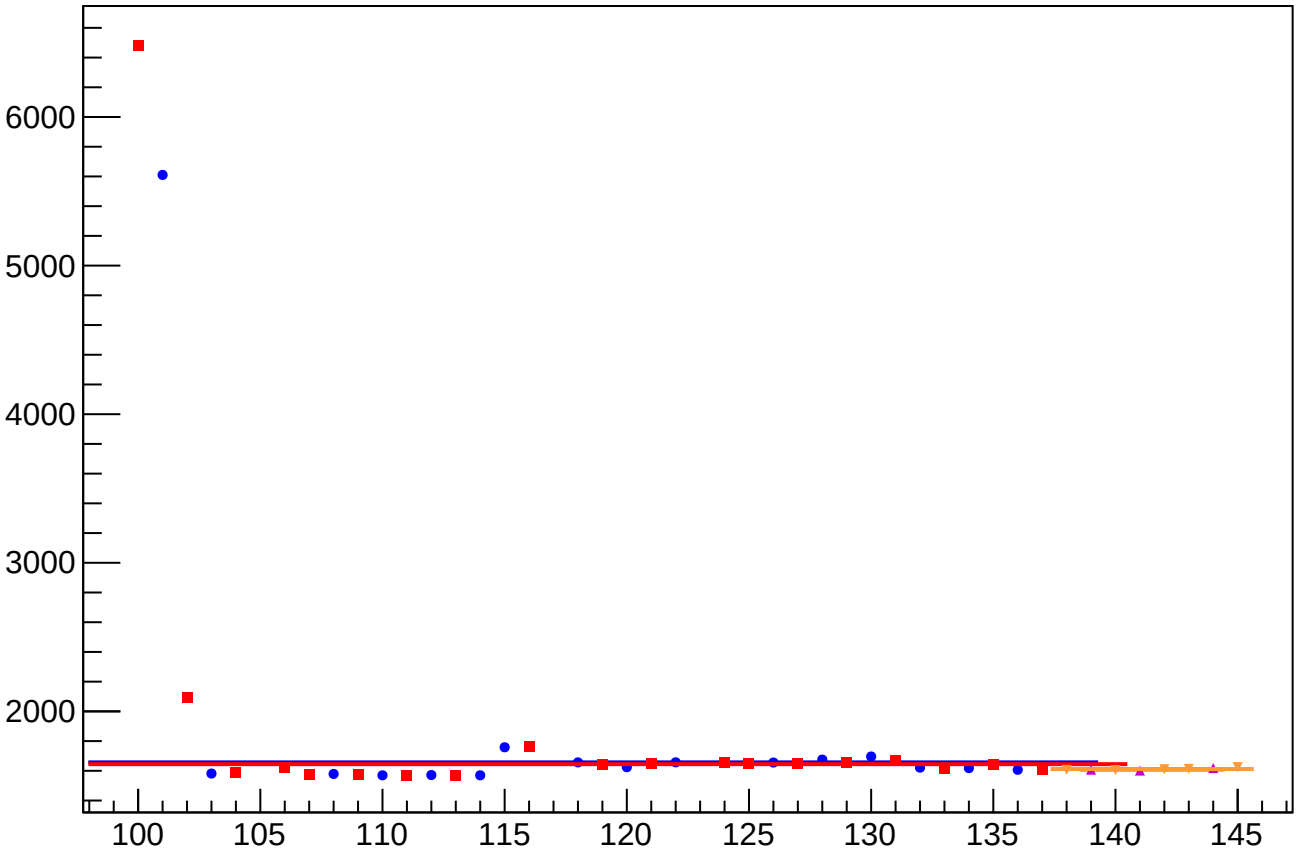
Left: 2725.410+/-640.479 $\chi^2$/NDF: 4.9/7

Right: 2382.848+/-438.187 $\chi^2$/NDF: 25.9/34

In: 2856.108+/-531.965 $\chi^2$/NDF:15.9/18

Out: 2179.235+/-493.135 $\chi^2$/NDF:14.2/23

All: 2492.068+/-361.648 $\chi^2$/NDF: 31.0/42




Right In: 1656.683+/-0.446 $\chi^2$/NDF: 666225.7/15

Left Out: 1611.872+/-0.593 $\chi^2$/NDF:154.6/4

Right Out: 1644.733+/-0.431 $\chi^2$/NDF: 136483.1/18

Left In: 1609.467+/-0.701 $\chi^2$/NDF:99.9/2

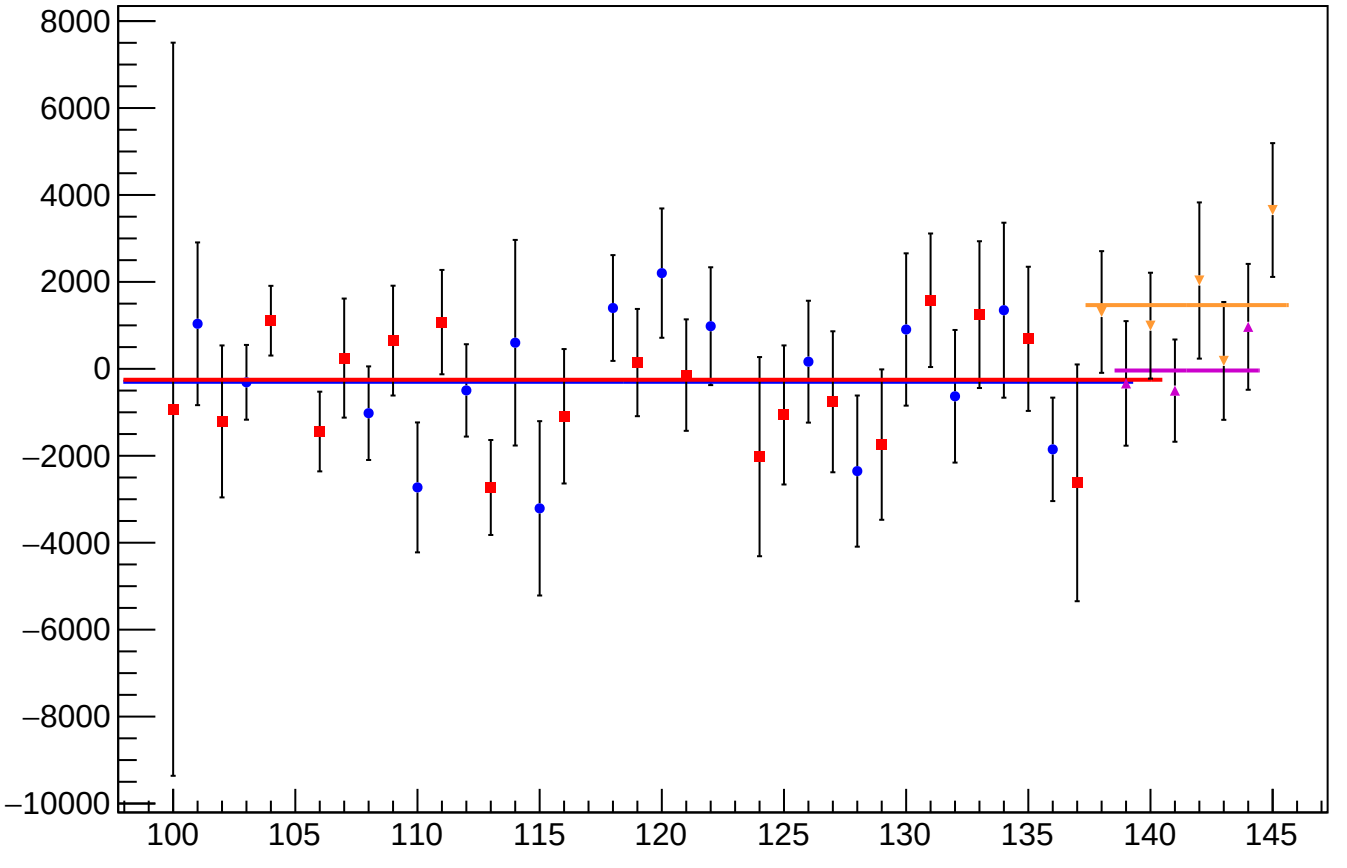
Left: 1610.870+/-0.453 $\chi^2$/NDF: 261.3/7

Right: 1650.510+/-0.310 $\chi^2$/NDF: 803080.3/34

In: 1643.107+/-0.376 $\chi^2$/NDF:669553.3/18

Out: 1633.372+/-0.349 $\chi^2$/NDF:138646.5/23

All: 1637.871+/-0.256 $\chi^2$/NDF: 808560.0/42




Right In: -297.794+/-343.391 $\chi^2$/NDF: 15.9/15

Left Out: 1466.253+/-637.487 $\chi^2$/NDF:3.2/4

Right Out: -251.230+/-315.749 $\chi^2$/NDF: 17.3/18

Left In: -38.232+/-769.893 $\chi^2$/NDF:0.7/2

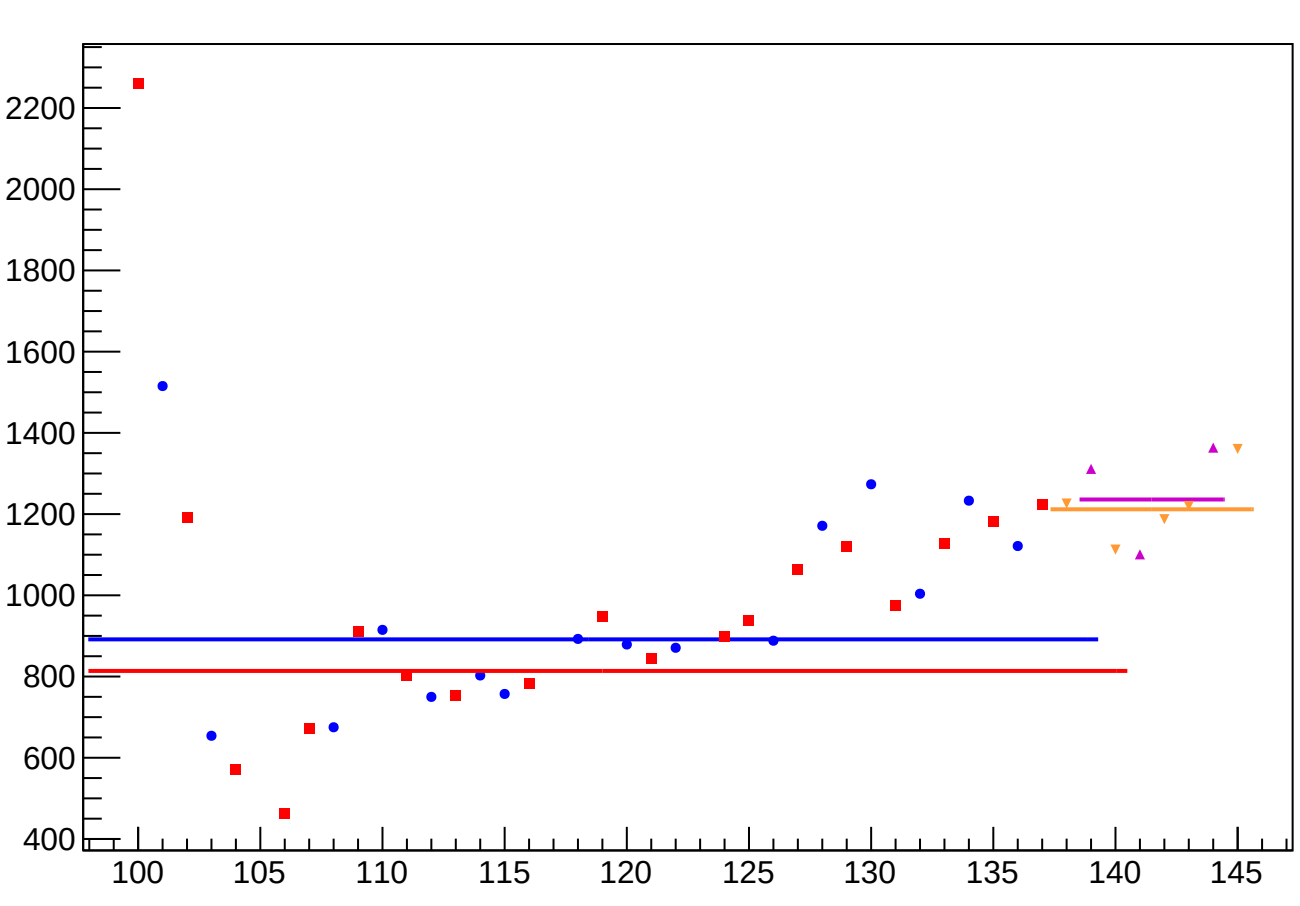
Left: 854.310+/-491.012 $\chi^2$/NDF: 6.1/7

Right: -272.563+/-232.427 $\chi^2$/NDF: 33.2/34

In: -254.725+/-313.610 $\chi^2$/NDF:16.7/18

Out: 87.108+/-282.944 $\chi^2$/NDF:26.3/23

All: -66.283+/-210.079 $\chi^2$/NDF: 43.6/42




Right In: 891.533+/-0.243 $\chi^2$/NDF: 793657.2/15

Left Out: 1211.804+/-0.451 $\chi^2$/NDF:32575.9/4

Right Out: 813.807+/-0.223 $\chi^2$/NDF: 1052991.6/18

Left In: 1235.960+/-0.544 $\chi^2$/NDF:47483.9/2

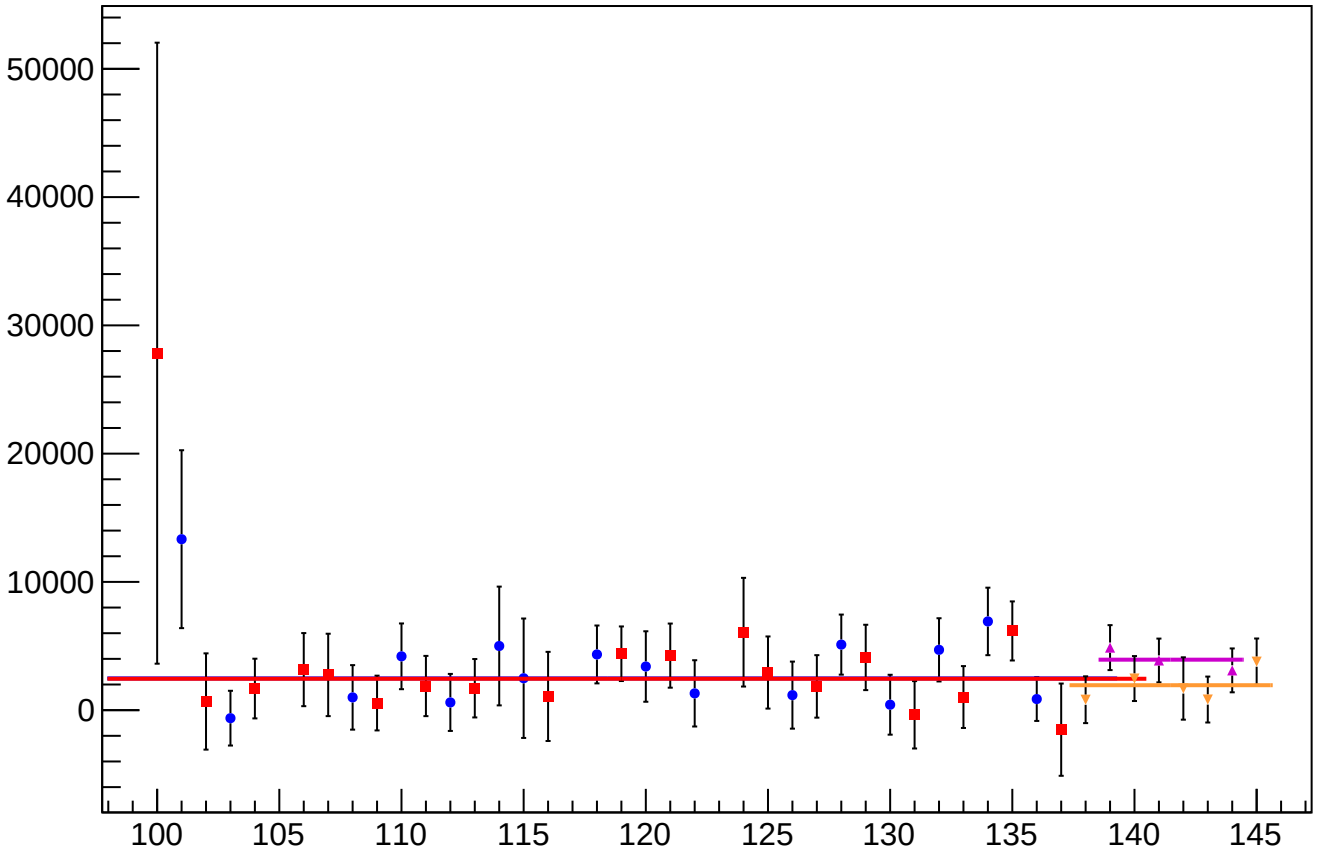
Left: 1221.629+/-0.347 $\chi^2$/NDF: 81227.9/7

Right: 849.416+/-0.164 $\chi^2$/NDF: 1902171.7/34

In: 948.683+/-0.222 $\chi^2$/NDF:1175004.1/18

Out: 892.211+/-0.200 $\chi^2$/NDF:1711551.5/23

All: 917.552+/-0.149 $\chi^2$/NDF: 2922305.9/42




Right In: 2475.229+/-633.866 $\chi^2$/NDF: 14.2/15

Left Out: 1945.457+/-840.959 $\chi^2$/NDF:1.9/4

Right Out: 2449.053+/-617.532 $\chi^2$/NDF: 10.6/18

Left In: 3936.321+/-994.422 $\chi^2$/NDF:0.5/2

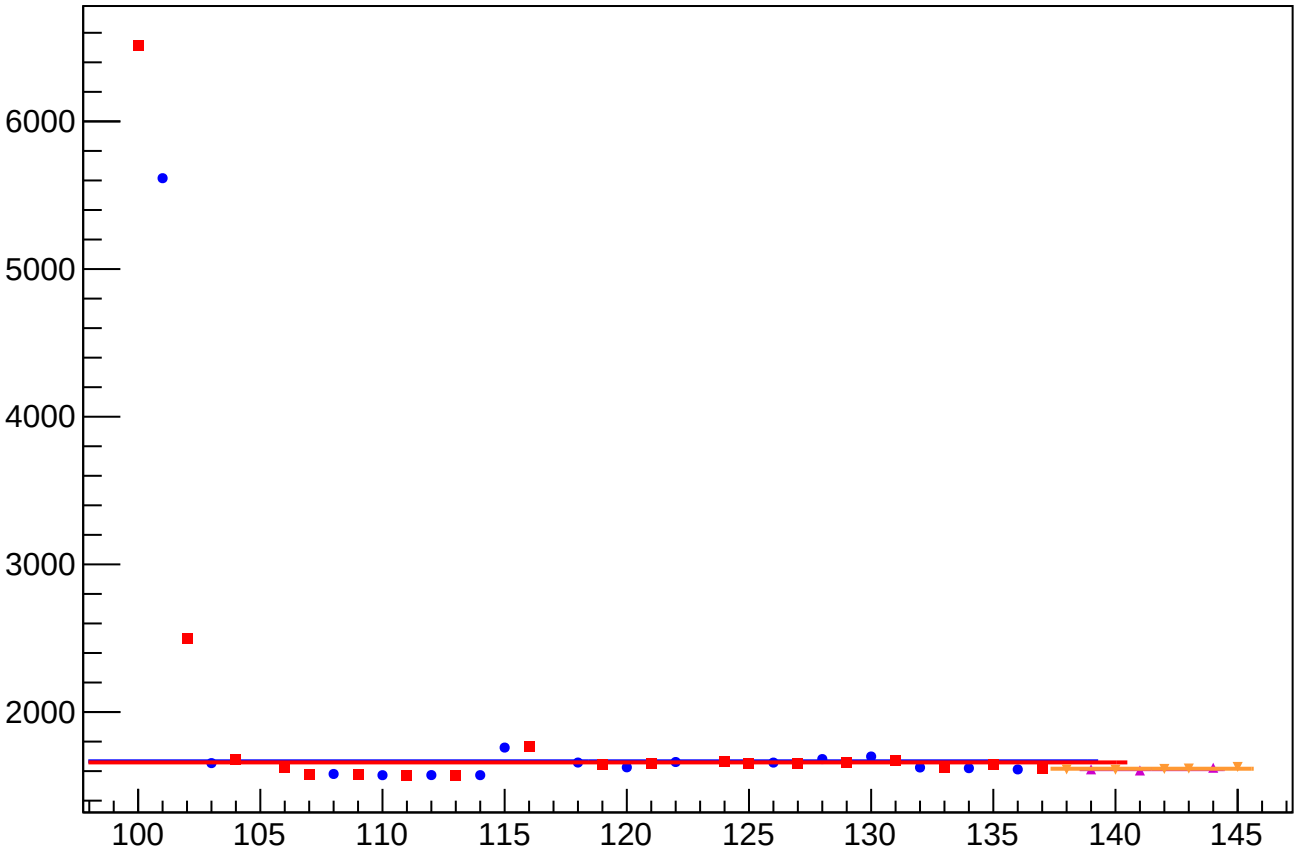
Left: 2775.581+/-642.128 $\chi^2$/NDF: 4.8/7

Right: 2461.799+/-442.323 $\chi^2$/NDF: 24.8/34

In: 2897.363+/-534.512 $\chi^2$/NDF:16.3/18

Out: 2272.633+/-497.747 $\chi^2$/NDF:12.7/23

All: 2562.776+/-364.265 $\chi^2$/NDF: 29.7/42




Right In: 1666.400+/-0.448 $\chi^2$/NDF: 662914.5/15

Left Out: 1616.230+/-0.595 $\chi^2$/NDF:132.8/4

Right Out: 1659.005+/-0.437 $\chi^2$/NDF: 193223.7/18

Left In: 1613.259+/-0.703 $\chi^2$/NDF:118.8/2

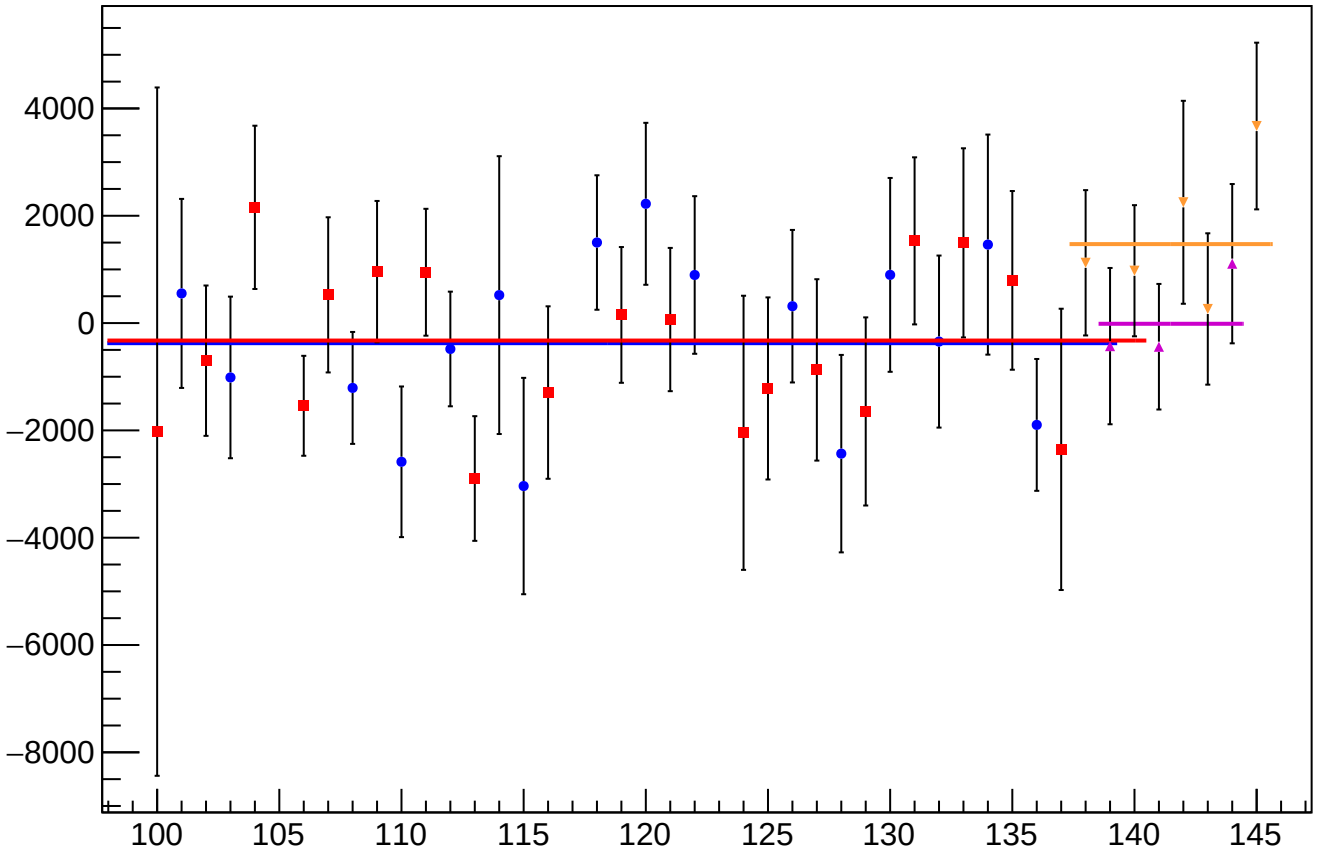
Left: 1614.991+/-0.454 $\chi^2$/NDF: 262.0/7

Right: 1662.606+/-0.313 $\chi^2$/NDF: 856277.9/34

In: 1651.046+/-0.378 $\chi^2$/NDF:667094.7/18

Out: 1644.020+/-0.352 $\chi^2$/NDF:196718.2/23

All: 1647.283+/-0.258 $\chi^2$/NDF: 863997.9/42




Right In: -374.592+/-367.944 $\chi^2$/NDF: 15.7/15

Left Out: 1471.726+/-643.962 $\chi^2$/NDF:3.1/4

Right Out: -325.671+/-340.620 $\chi^2$/NDF: 17.4/18

Left In: -13.222+/-777.223 $\chi^2$/NDF:0.8/2

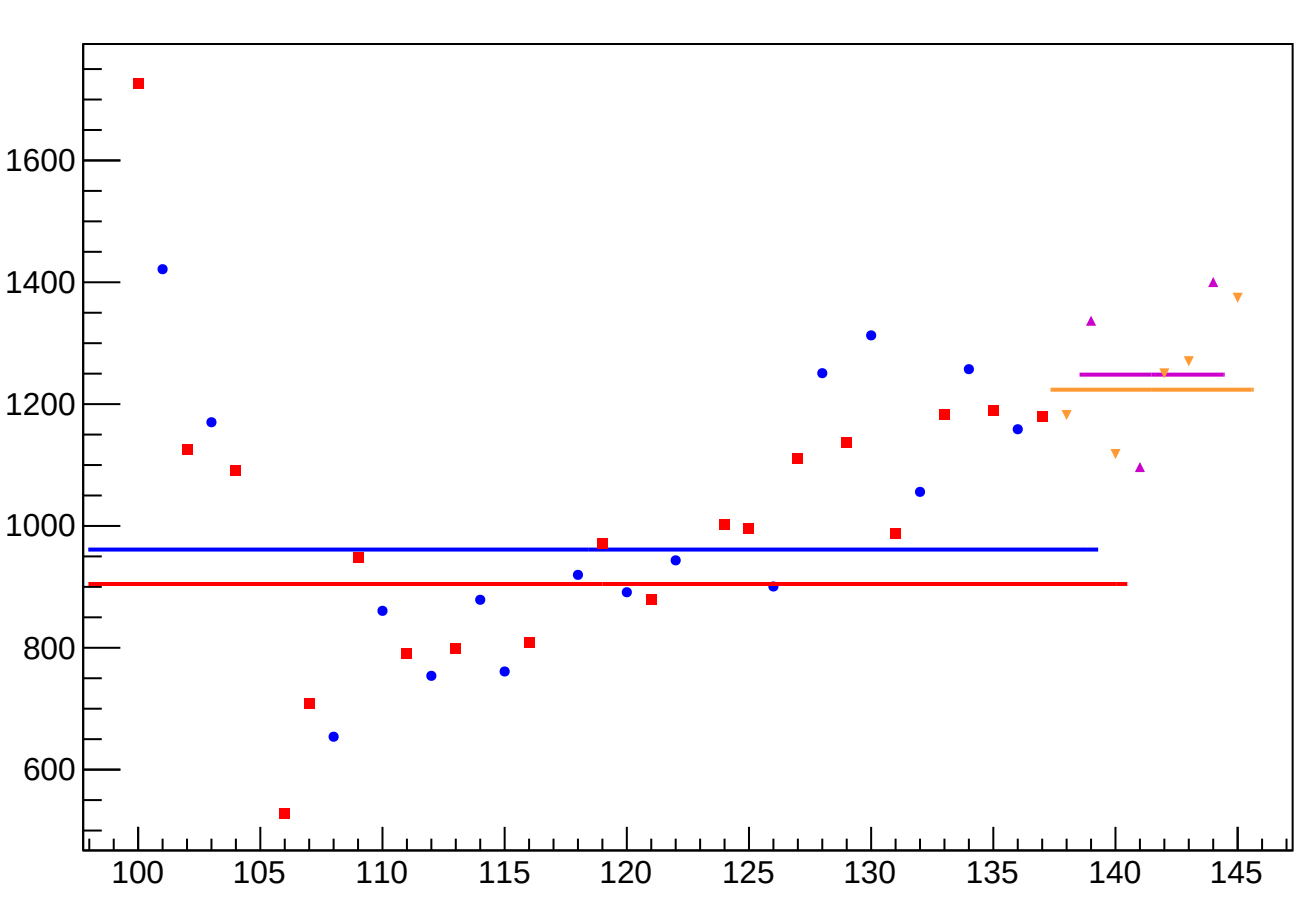
Left: 867.278+/-495.872 $\chi^2$/NDF: 6.1/7

Right: -348.248+/-249.957 $\chi^2$/NDF: 33.1/34

In: -308.431+/-332.561 $\chi^2$/NDF:16.7/18

Out: 67.271+/-301.094 $\chi^2$/NDF:26.6/23

All: -101.969+/-223.203 $\chi^2$/NDF: 44.0/42




Right In: 961.243+/-0.260 $\chi^2$/NDF: 691875.4/15

Left Out: 1223.670+/-0.455 $\chi^2$/NDF:38310.3/4

Right Out: 904.736+/-0.241 $\chi^2$/NDF: 736484.7/18

Left In: 1248.390+/-0.550 $\chi^2$/NDF:61954.8/2

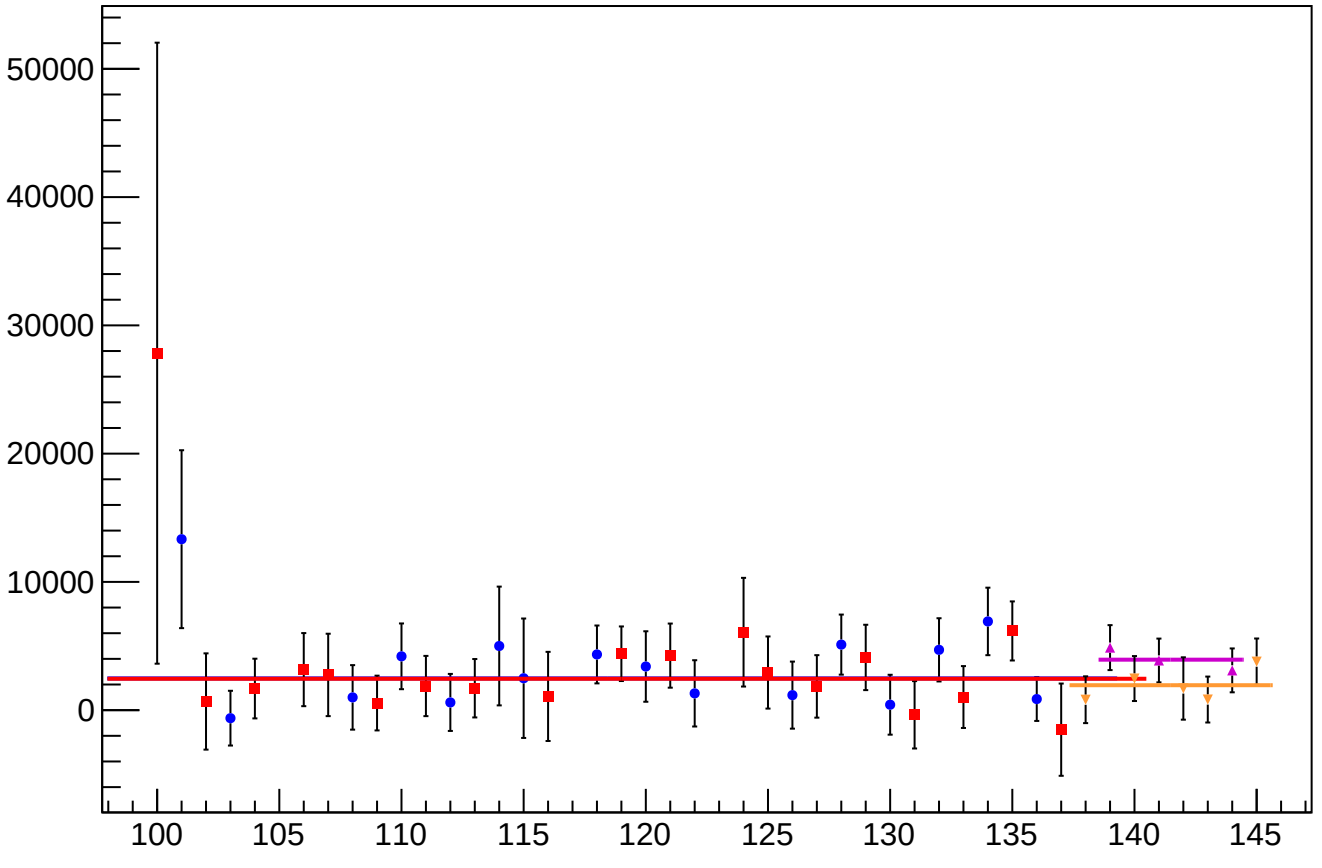
Left: 1233.732+/-0.351 $\chi^2$/NDF: 101464.7/7

Right: 930.814+/-0.177 $\chi^2$/NDF: 1453761.0/34

In: 1013.815+/-0.235 $\chi^2$/NDF:976840.9/18

Out: 974.461+/-0.213 $\chi^2$/NDF:1158126.3/23

All: 992.188+/-0.158 $\chi^2$/NDF: 2150358.1/42




Right In: 2475.228+/-633.866 $\chi^2$/NDF: 14.2/15

Left Out: 1945.461+/-840.959 $\chi^2$/NDF:1.9/4

Right Out: 2449.053+/-617.532 $\chi^2$/NDF: 10.6/18

Left In: 3936.320+/-994.422 $\chi^2$/NDF:0.5/2

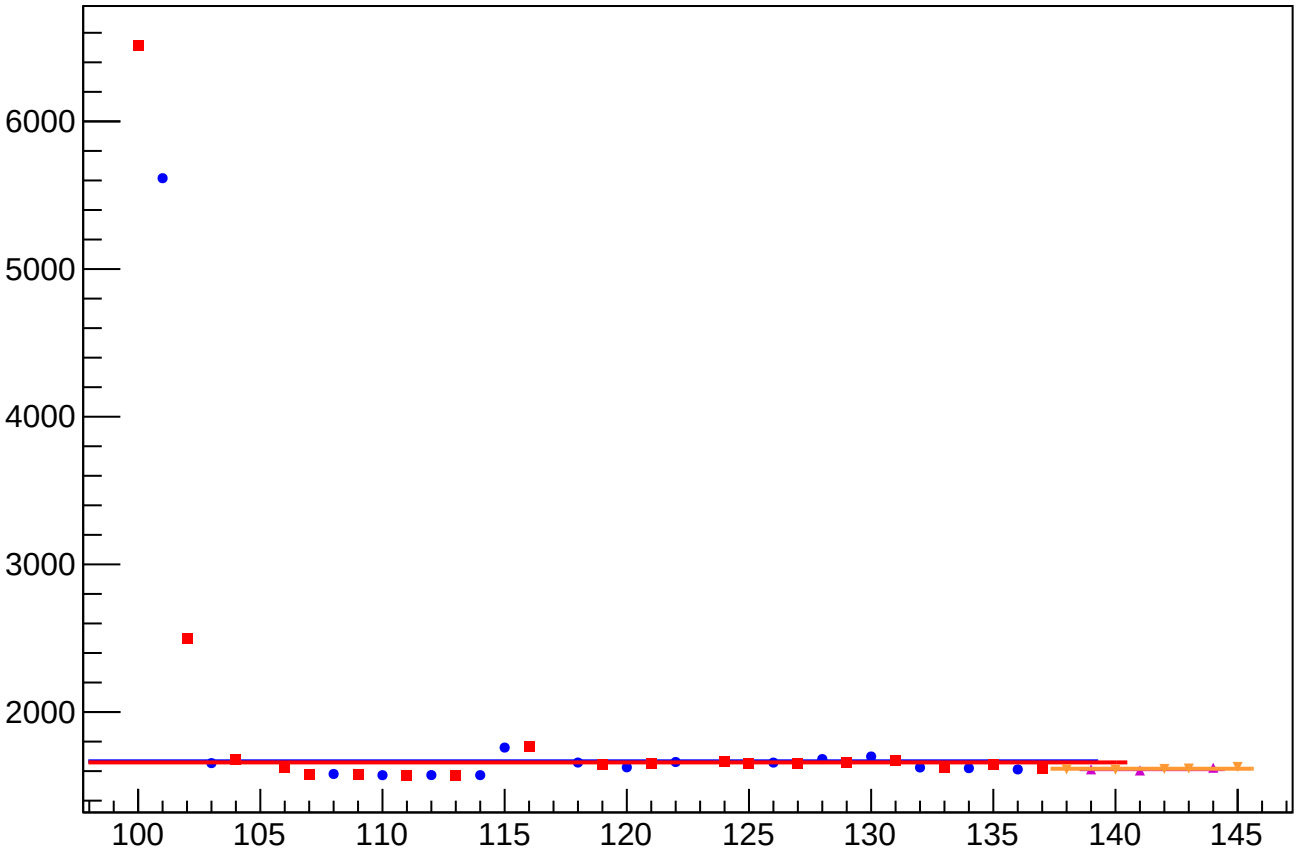
Left: 2775.583+/-642.128 $\chi^2$/NDF: 4.8/7

Right: 2461.799+/-442.323 $\chi^2$/NDF: 24.8/34

In: 2897.362+/-534.512 $\chi^2$/NDF:16.3/18

Out: 2272.634+/-497.747 $\chi^2$/NDF:12.7/23

All: 2562.776+/-364.265 $\chi^2$/NDF: 29.7/42




Right In: 1666.400+/-0.448 $\chi^2$/NDF: 662914.5/15

Left Out: 1616.230+/-0.595 $\chi^2$/NDF:132.8/4

Right Out: 1659.004+/-0.437 $\chi^2$/NDF: 193223.5/18

Left In: 1613.259+/-0.703 $\chi^2$/NDF:118.8/2

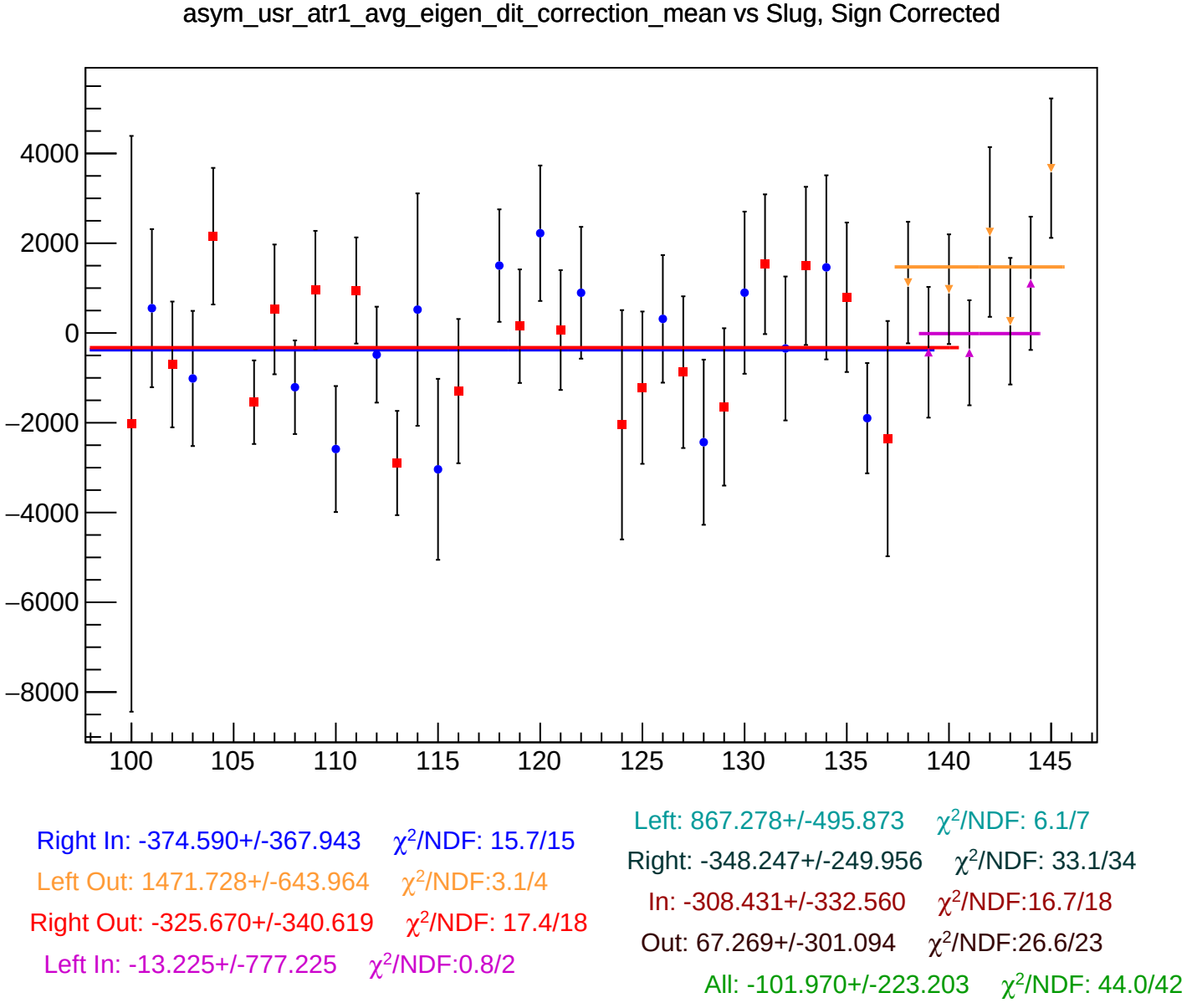
Left: 1614.991+/-0.454 $\chi^2$/NDF: 262.0/7

Right: 1662.606+/-0.313 $\chi^2$/NDF: 856277.7/34

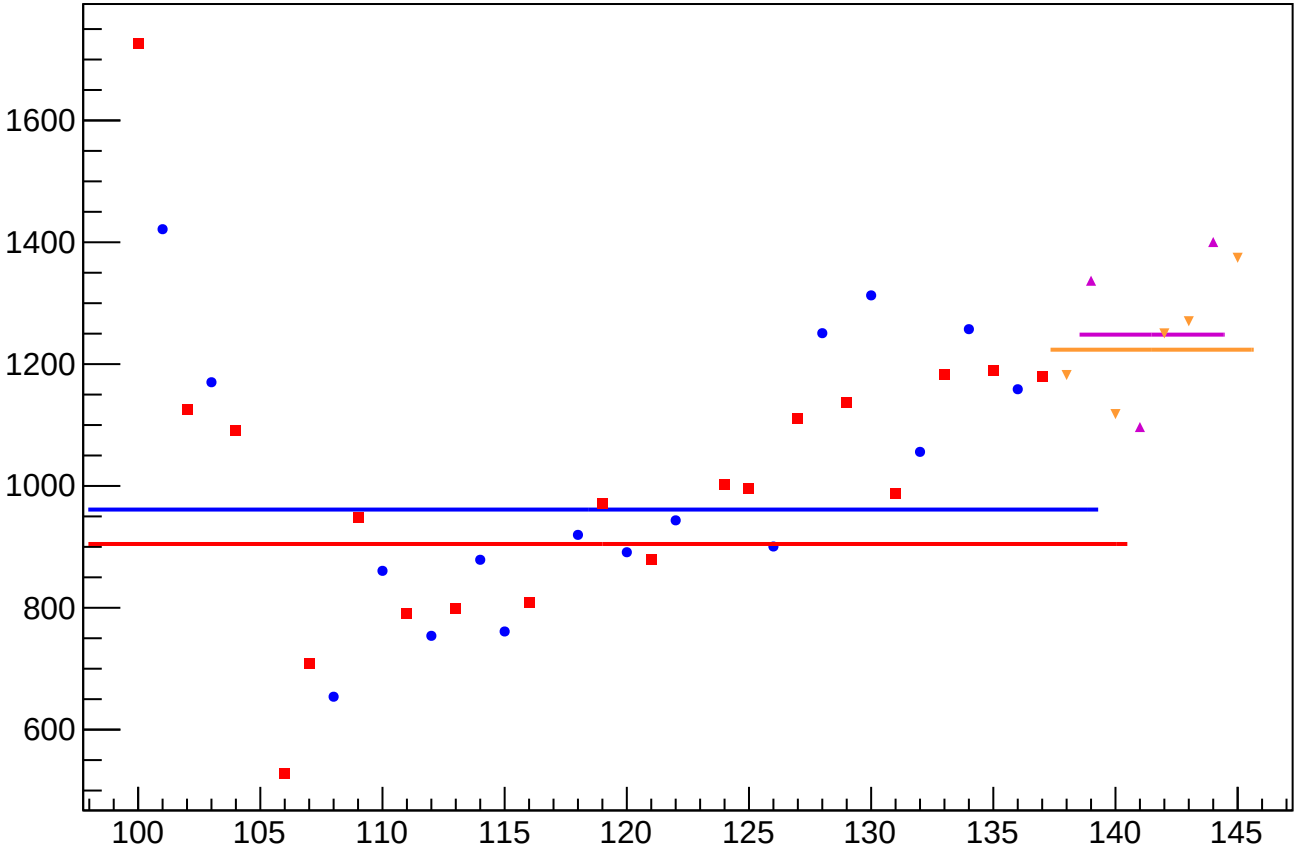
In: 1651.046+/-0.378 $\chi^2$/NDF:667094.6/18

Out: 1644.020+/-0.352 $\chi^2$/NDF:196718.0/23

All: 1647.283+/-0.258 $\chi^2$/NDF: 863997.7/42


asym_usr_atr1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
4000
2000
0
−2000
−4000
−6000
−8000
100
105
110
115
120
125
130
135
140
145
Right In: -374.590+/-367.943 χ²/NDF: 15.7/15
Left Out: 1471.728+/-643.964 χ²/NDF:3.1/4
Right Out: -325.670+/-340.619 χ²/NDF: 17.4/18
Left In: -13.225+/-777.225 χ²/NDF:0.8/2
Left: 867.278+/-495.873 χ²/NDF: 6.1/7
Right: -348.247+/-249.956 χ²/NDF: 33.1/34
In: -308.431+/-332.560 χ²/NDF:16.7/18
Out: 67.269+/-301.094 χ²/NDF:26.6/23
All: -101.970+/-223.203 χ²/NDF: 44.0/42

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: 1223.673+/-0.455 $\chi^2$/NDF:38310.5/4

Right Out: 904.734+/-0.241 $\chi^2$/NDF: 736482.2/18

Left In: 1248.393+/-0.550 $\chi^2$/NDF:61955.2/2

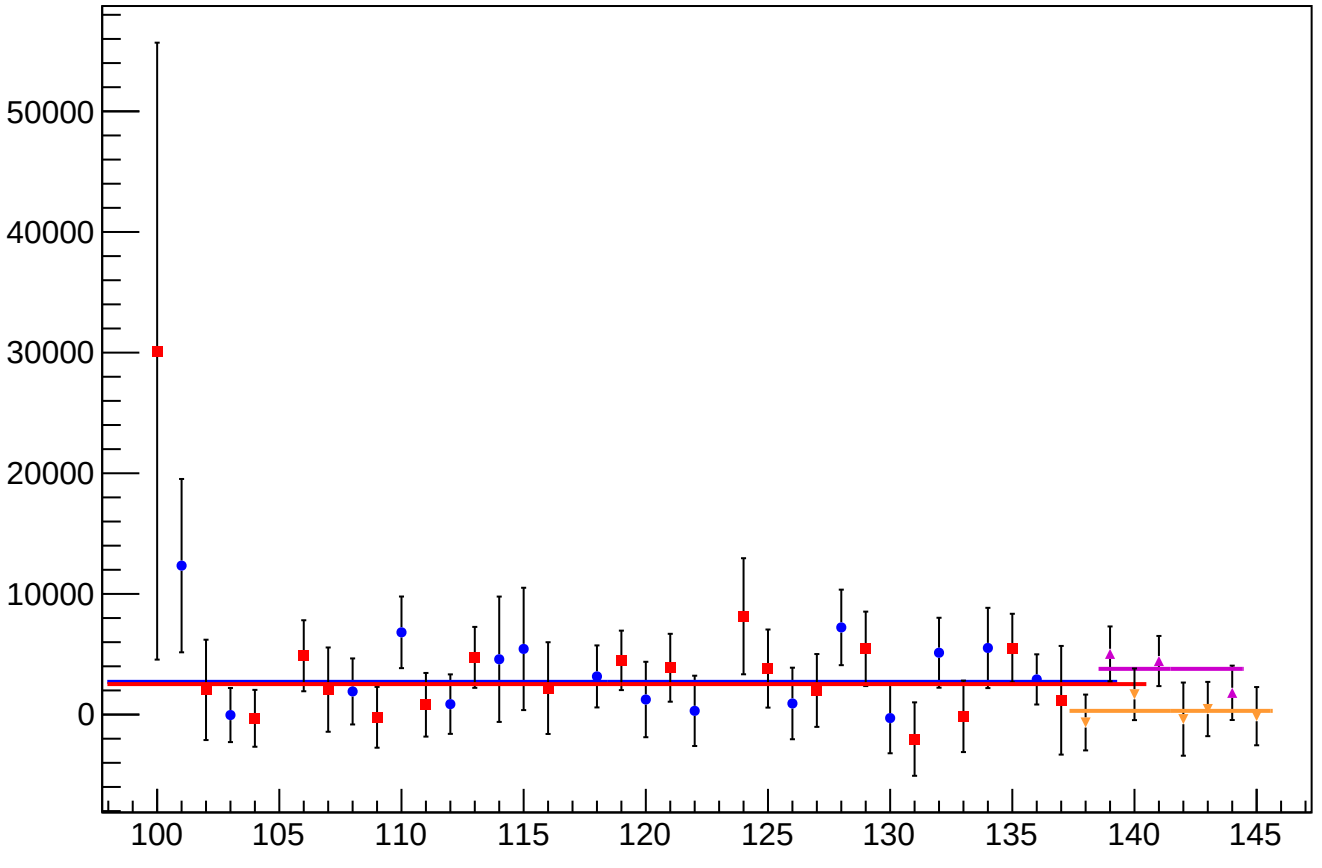
Left: 1233.735+/-0.351 $\chi^2$/NDF: 101465.4/7

Right: 930.811+/-0.177 $\chi^2$/NDF: 1453765.4/34

In: 1013.812+/-0.235 $\chi^2$/NDF:976859.2/18

Out: 974.459+/-0.213 $\chi^2$/NDF:1158135.3/23

All: 992.186+/-0.158 $\chi^2$/NDF: 2150384.4/42




Right In: 2711.394+/-735.088 $\chi^2$/NDF: 12.1/15

Left Out: 306.619+/-1063.953 $\chi^2$/NDF:0.7/4

Right Out: 2525.536+/-706.449 $\chi^2$/NDF: 13.2/18

Left In: 3788.665+/-1267.521 $\chi^2$/NDF:1.2/2

Left: 1745.914+/-814.916 $\chi^2$/NDF: 6.3/7

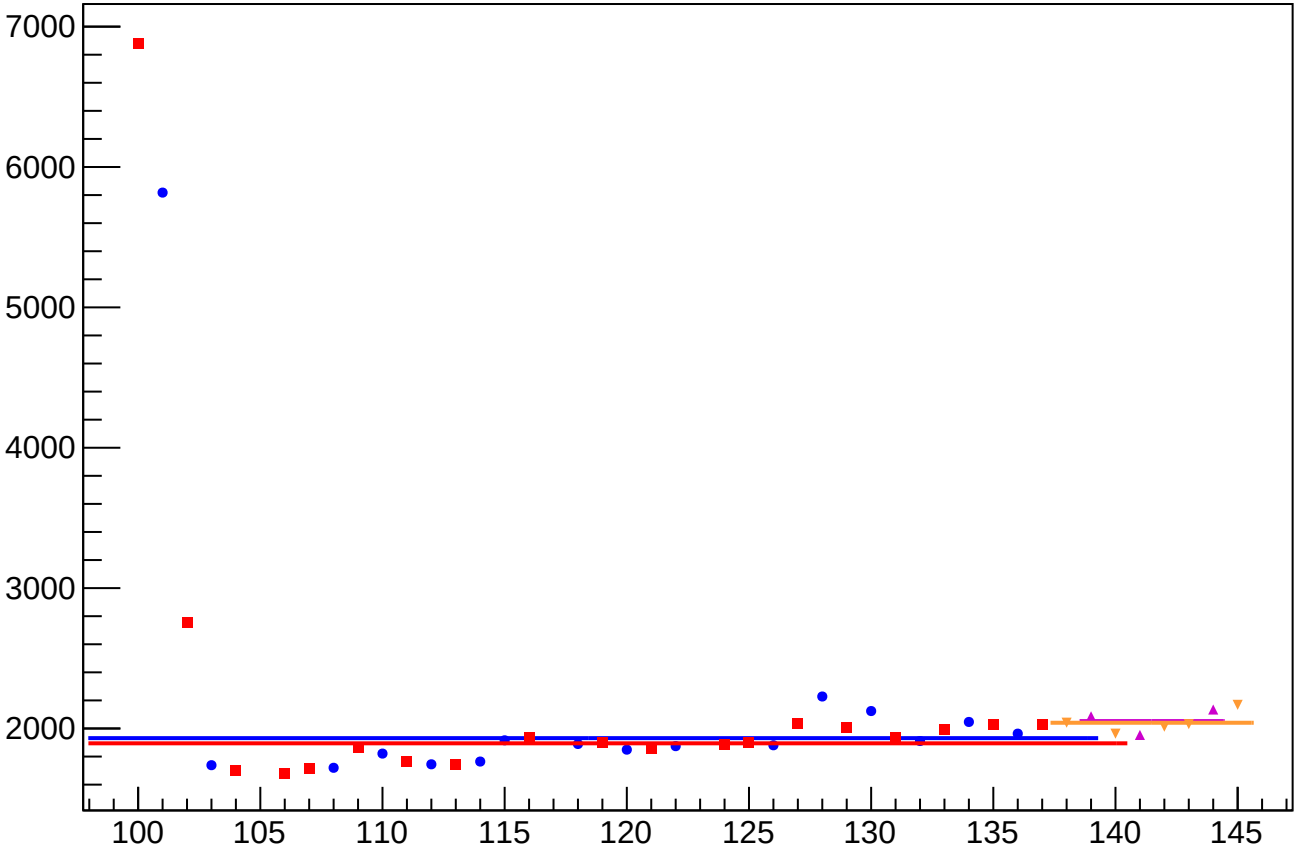
Right: 2614.774+/-509.359 $\chi^2$/NDF: 25.4/34

In: 2982.525+/-635.890 $\chi^2$/NDF:13.8/18

Out: 1846.597+/-588.529 $\chi^2$/NDF:16.9/23

All: 2370.688+/-431.927 $\chi^2$/NDF: 32.5/42

# asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 1931.250+/-0.520 $\chi^2$/NDF: 661227.1/15

Left Out: 2040.849+/-0.752 $\chi^2$/NDF:8443.1/4

Right Out: 1894.349+/-0.500 $\chi^2$/NDF: 220541.1/18

Left In: 2052.761+/-0.896 $\chi^2$/NDF:7626.6/2

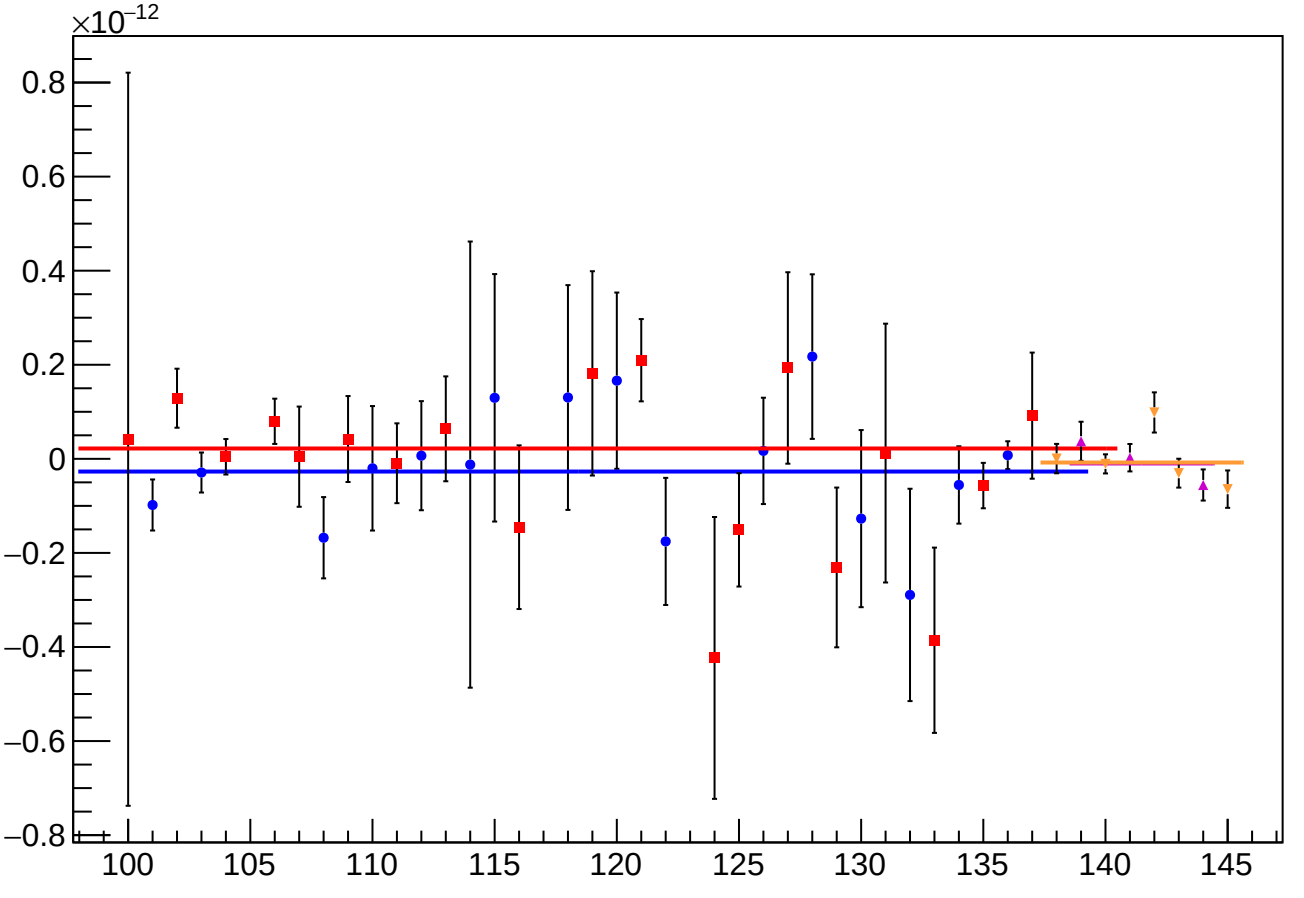
Left: 2045.773+/-0.576 $\chi^2$/NDF: 16173.3/7

Right: 1912.067+/-0.360 $\chi^2$/NDF: 884388.3/34

In: 1961.832+/-0.450 $\chi^2$/NDF:682607.9/18

Out: 1939.174+/-0.416 $\chi^2$/NDF:255301.1/23

All: 1949.628+/-0.305 $\chi^2$/NDF: 939276.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.4/2

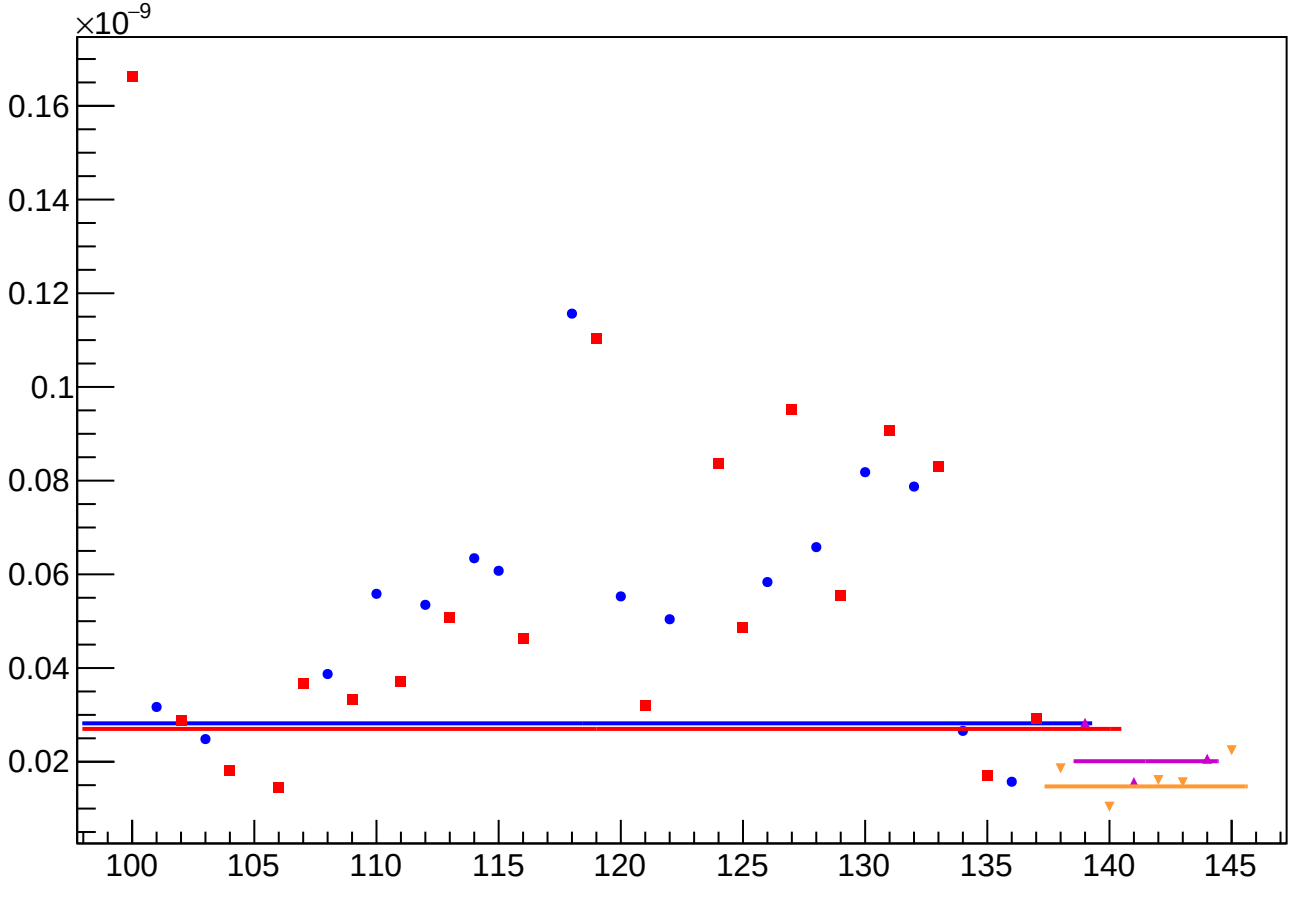
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.3/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:35.9/23

All: -0.000+/-0.000 $\chi^2$/NDF: 53.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1490571.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:200578.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1556165.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:125228.5/2

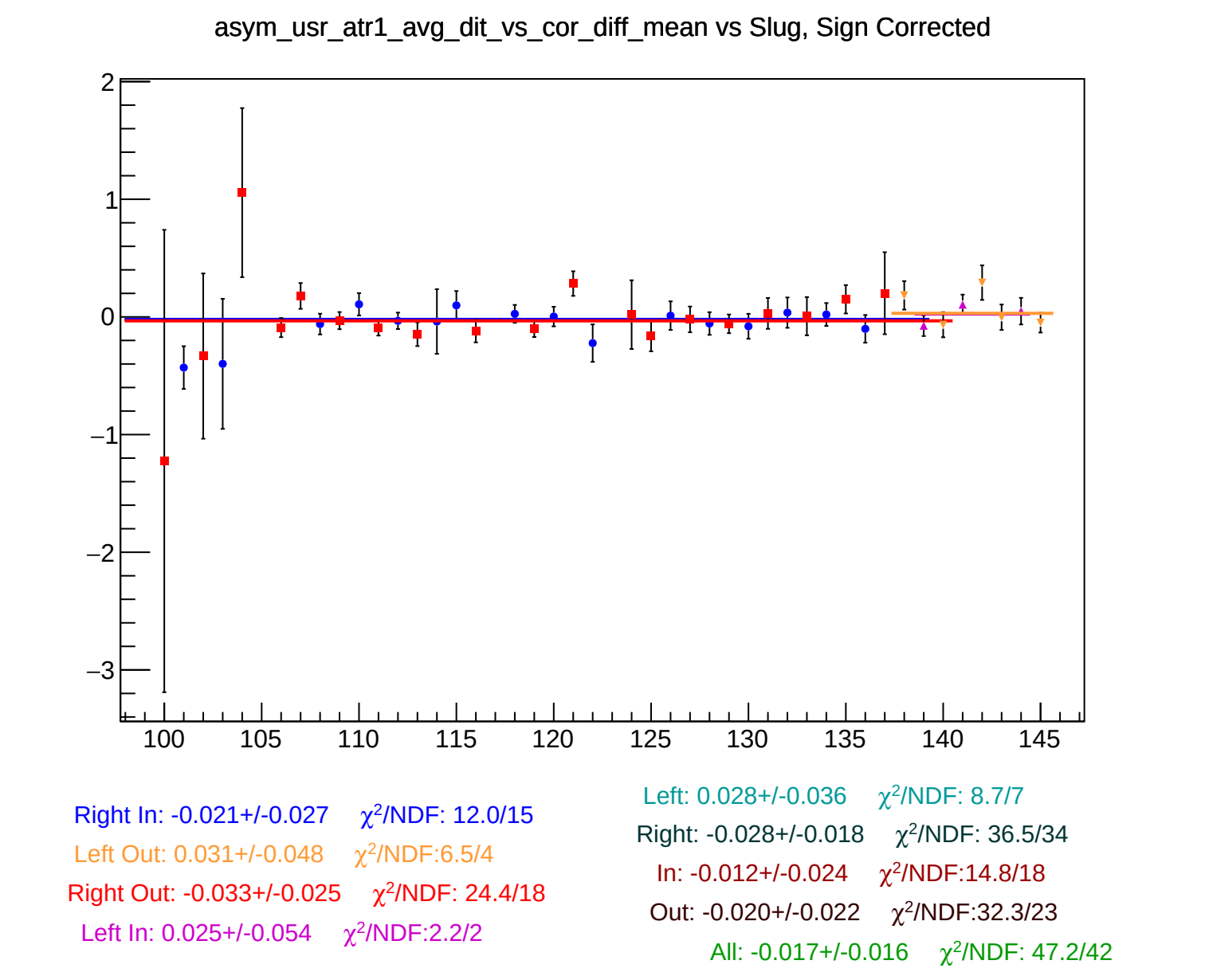
Left: 0.000+/-0.000 $\chi^2$/NDF: 431023.6/7

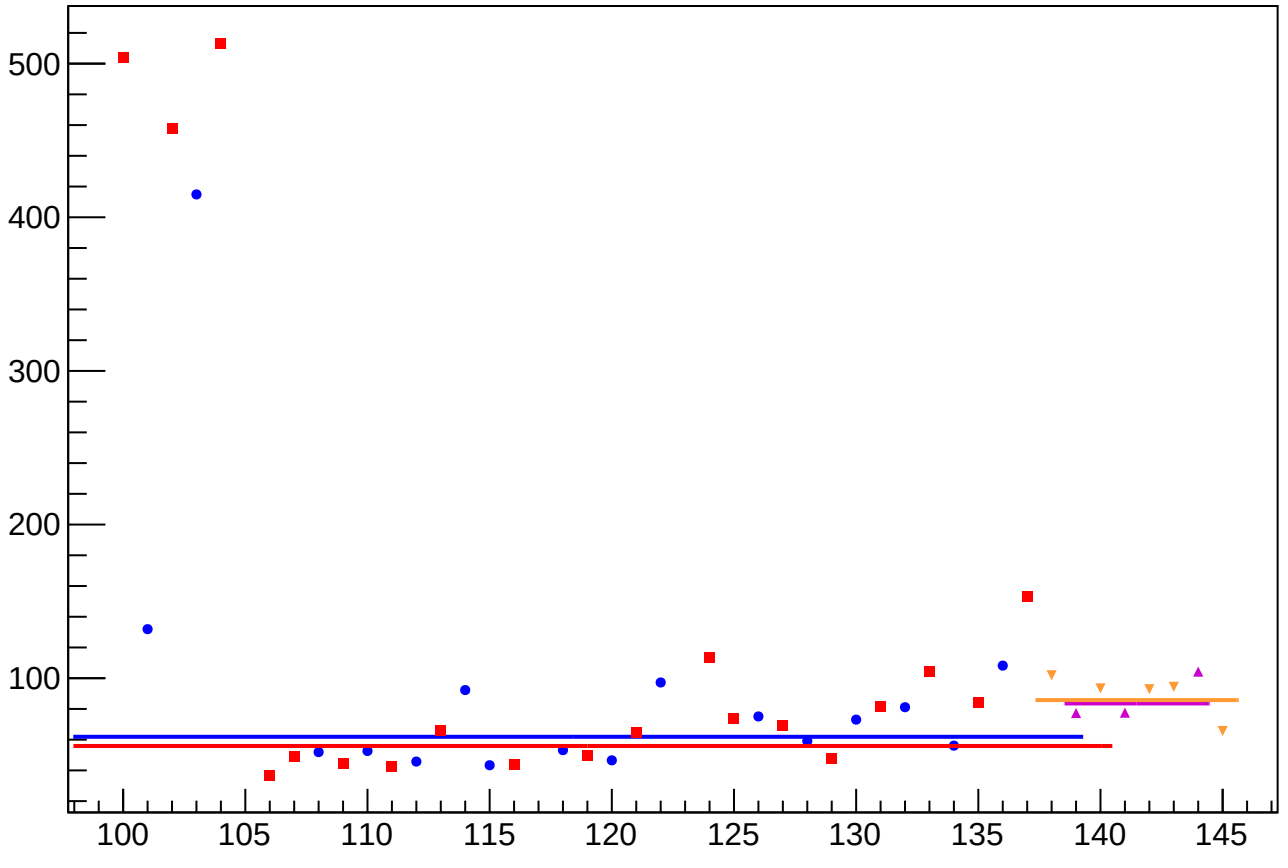
Right: 0.000+/-0.000 $\chi^2$/NDF: 3050538.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:1791991.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2304020.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4297748.3/42


asym_usr_atr1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected
2
1
0
−1
−2
−3
100
105
110
115
120
125
130
135
140
145
Right In: -0.021+/-0.027 χ²/NDF: 12.0/15
Left Out: 0.031+/-0.048 χ²/NDF:6.5/4
Right Out: -0.033+/-0.025 χ²/NDF: 24.4/18
Left In: 0.025+/-0.054 χ²/NDF:2.2/2
Left: 0.028+/-0.036 χ²/NDF: 8.7/7
Right: -0.028+/-0.018 χ²/NDF: 36.5/34
In: -0.012+/-0.024 χ²/NDF:14.8/18
Out: -0.020+/-0.022 χ²/NDF:32.3/23
All: -0.017+/-0.016 χ²/NDF: 47.2/42




Right In: 61.876+/-0.019 $\chi^2$/NDF: 1937953.9/15

Left Out: 85.749+/-0.034 $\chi^2$/NDF:177372.1/4

Right Out: 55.887+/-0.017 $\chi^2$/NDF: 2591275.8/18

Left In: 83.559+/-0.038 $\chi^2$/NDF:87090.7/2

Left: 84.773+/-0.025 $\chi^2$/NDF: 266298.2/7

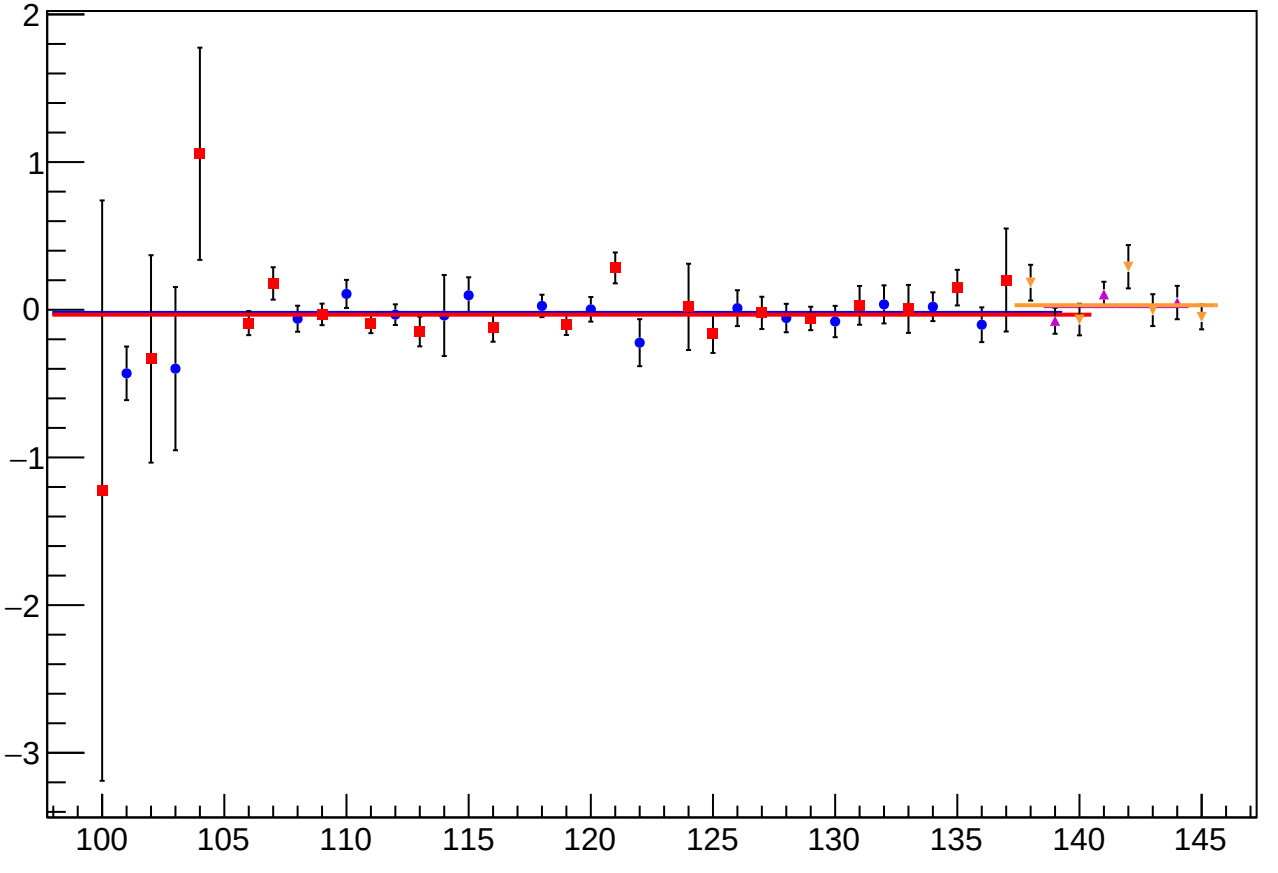
Right: 58.651+/-0.013 $\chi^2$/NDF: 4584001.9/34

In: 66.120+/-0.017 $\chi^2$/NDF:2286018.0/18

Out: 62.037+/-0.015 $\chi^2$/NDF:3376392.5/23

All: 63.909+/-0.011 $\chi^2$/NDF: 5694246.8/42

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: 0.031+/-0.048 $\chi^2$/NDF:6.5/4

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: 0.025+/-0.054 $\chi^2$/NDF:2.2/2

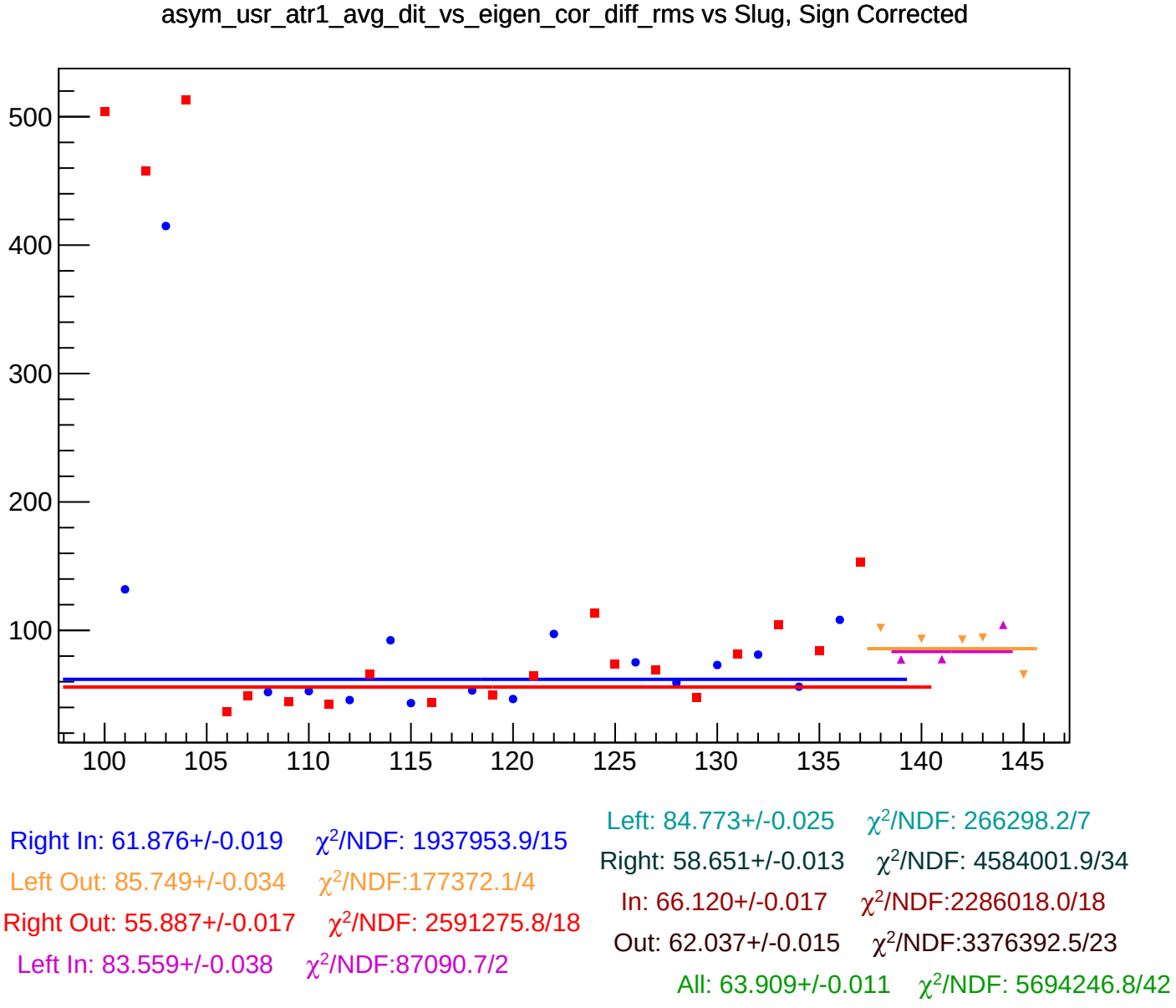
Left: 0.028+/-0.036 $\chi^2$/NDF: 8.7/7

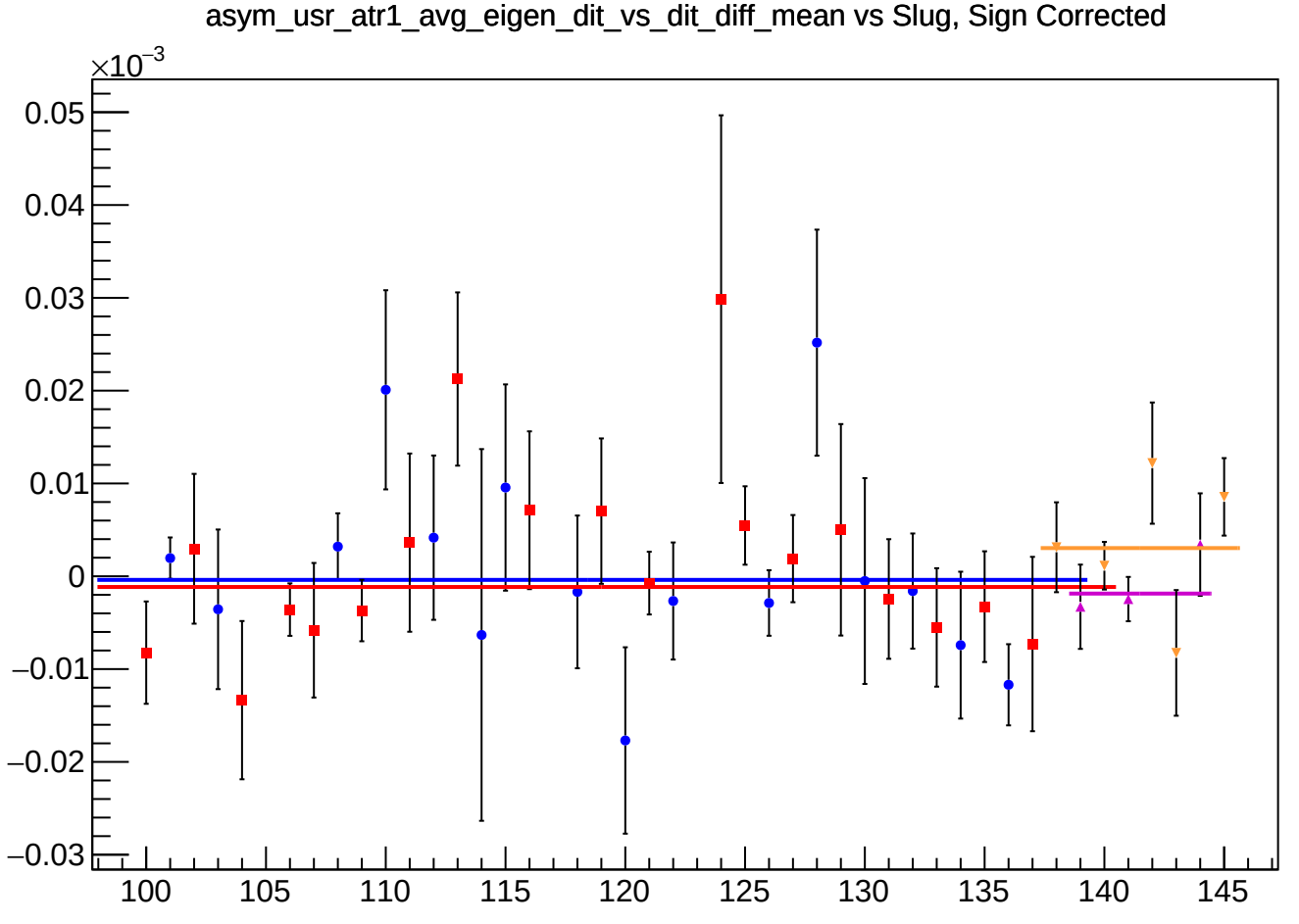
Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.012+/-0.024 $\chi^2$/NDF:14.8/18

Out: -0.020+/-0.022 $\chi^2$/NDF:32.3/23

All: -0.017+/-0.016 $\chi^2$/NDF: 47.2/42


asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
500
400
300
200
100
100
105
110
115
120
125
130
135
140
145
Right In: 61.876+/-0.019 χ²/NDF: 1937953.9/15
Left Out: 85.749+/-0.034 χ²/NDF:177372.1/4
Right Out: 55.887+/-0.017 χ²/NDF: 2591275.8/18
Left In: 83.559+/-0.038 χ²/NDF:87090.7/2
Left: 84.773+/-0.025 χ²/NDF: 266298.2/7
Right: 58.651+/-0.013 χ²/NDF: 4584001.9/34
In: 66.120+/-0.017 χ²/NDF:2286018.0/18
Out: 62.037+/-0.015 χ²/NDF:3376392.5/23
All: 63.909+/-0.011 χ²/NDF: 5694246.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:7.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.1/2

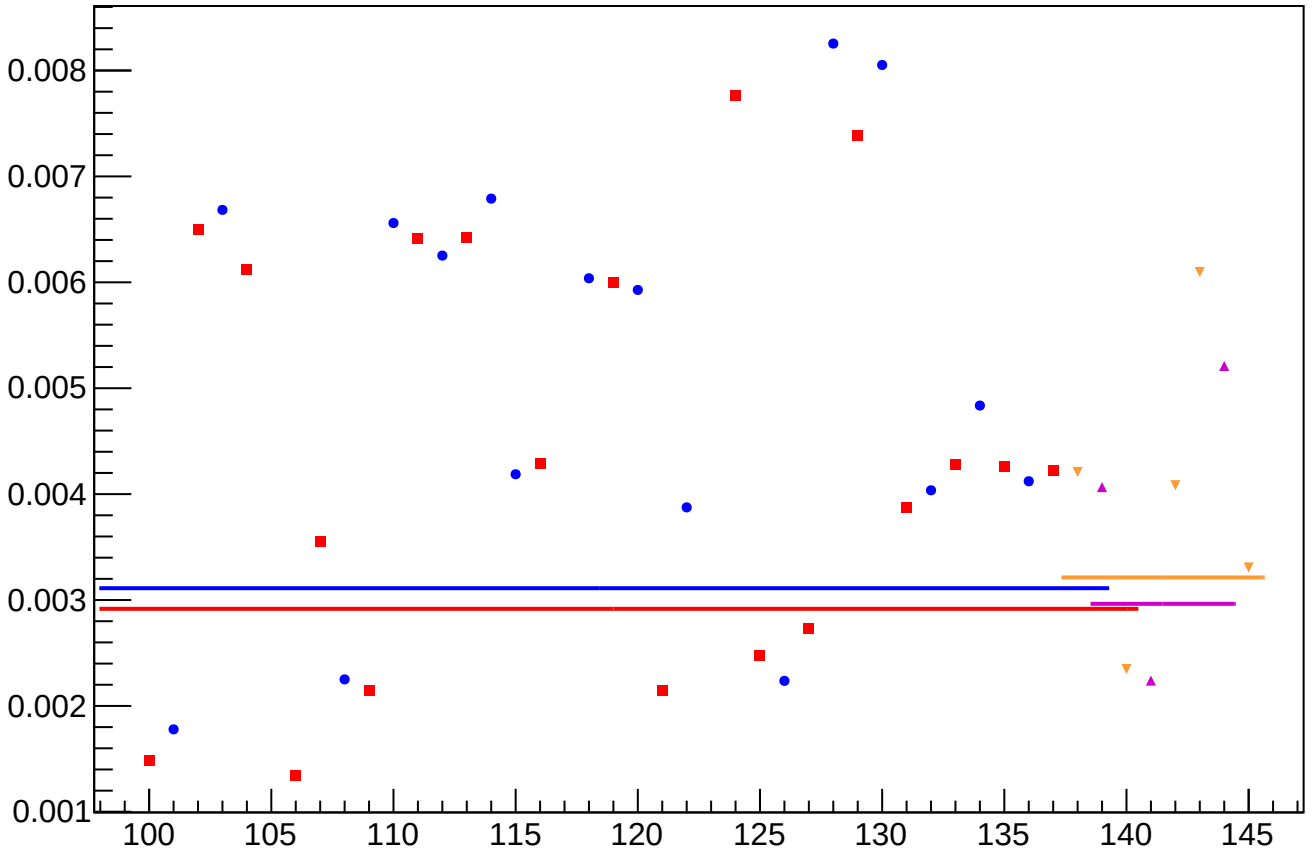
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.4/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:24.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:31.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 55.5/42




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3283915.1/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:711002.5/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3295506.1/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:633022.9/2

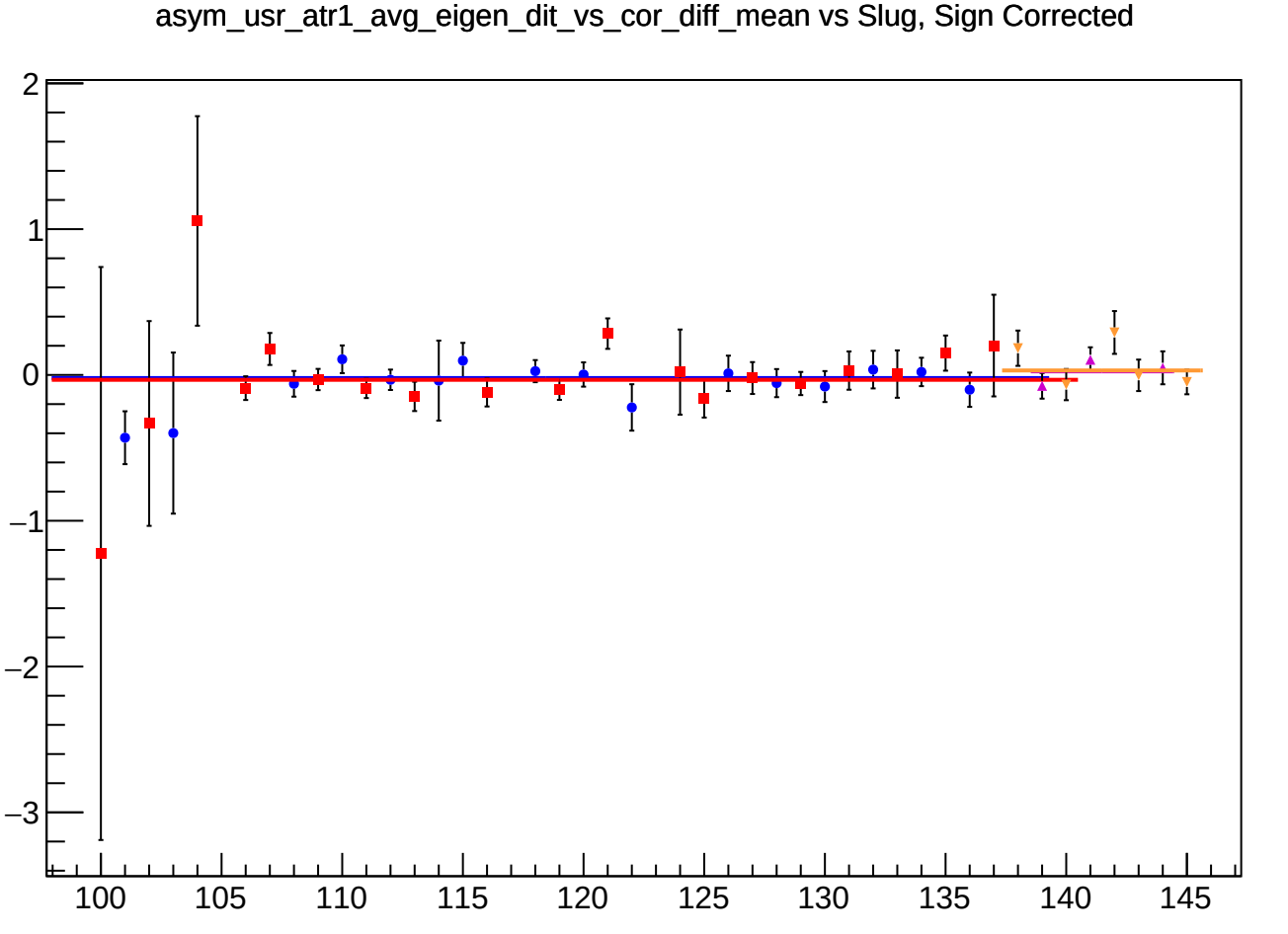
Left: 0.003+/-0.000 $\chi^2$/NDF: 1361072.7/7

Right: 0.003+/-0.000 $\chi^2$/NDF: 6602078.2/34

In: 0.003+/-0.000 $\chi^2$/NDF:3924610.3/18

Out: 0.003+/-0.000 $\chi^2$/NDF:4041987.8/23

All: 0.003+/-0.000 $\chi^2$/NDF: 7969182.4/42




Right In: -0.021+/-0.027 $\chi^2$/NDF: 12.0/15

Left Out: 0.031+/-0.048 $\chi^2$/NDF:6.5/4

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: 0.025+/-0.054 $\chi^2$/NDF:2.2/2

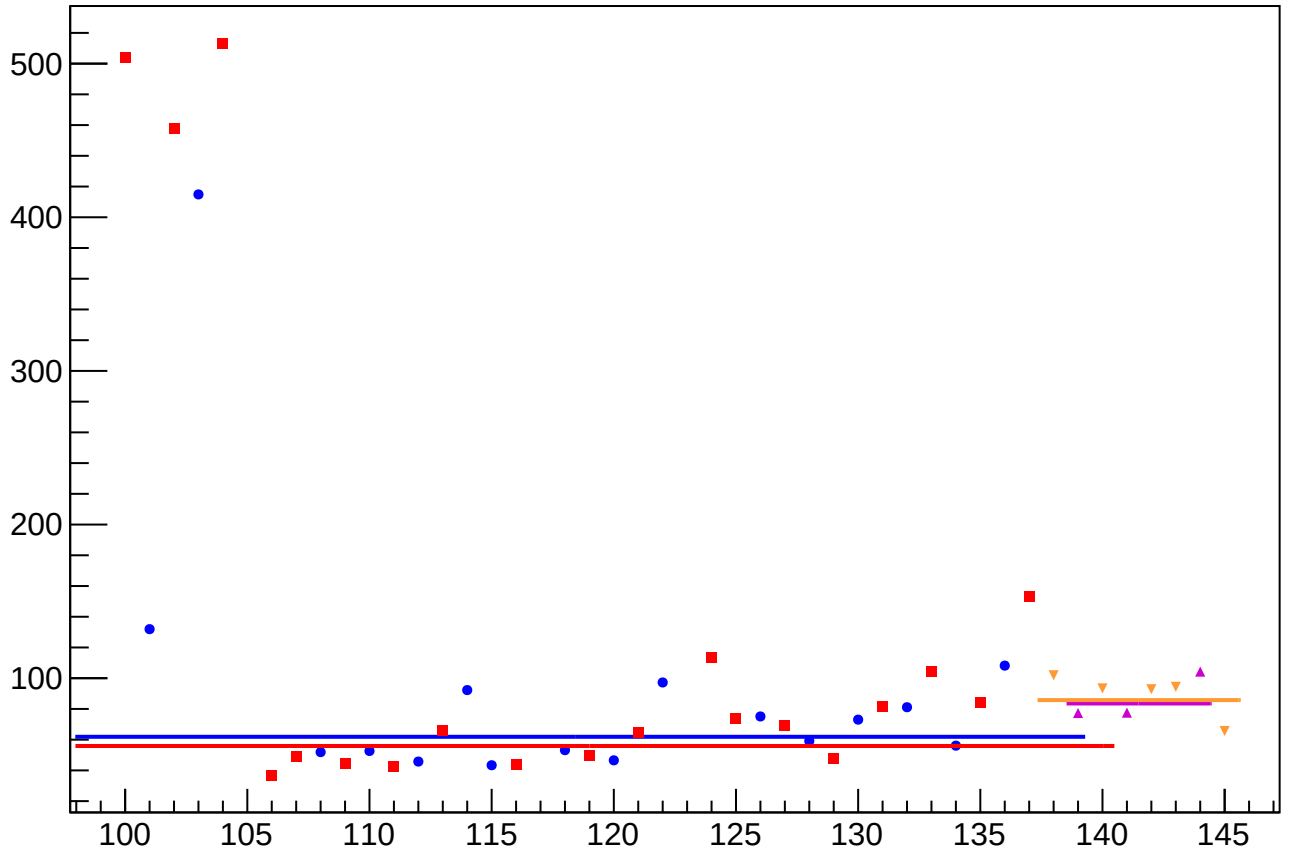
Left: 0.028+/-0.036 $\chi^2$/NDF: 8.7/7

Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.012+/-0.024 $\chi^2$/NDF:14.8/18

Out: -0.020+/-0.022 $\chi^2$/NDF:32.3/23

All: -0.017+/-0.016 $\chi^2$/NDF: 47.2/42




Right In: 61.875+/-0.019 $\chi^2$/NDF: 1937904.4/15

Left Out: 85.749+/-0.034 $\chi^2$/NDF:177383.1/4

Right Out: 55.886+/-0.017 $\chi^2$/NDF: 2591233.7/18

Left In: 83.559+/-0.038 $\chi^2$/NDF:87092.7/2

Left: 84.773+/-0.025 $\chi^2$/NDF: 266310.6/7

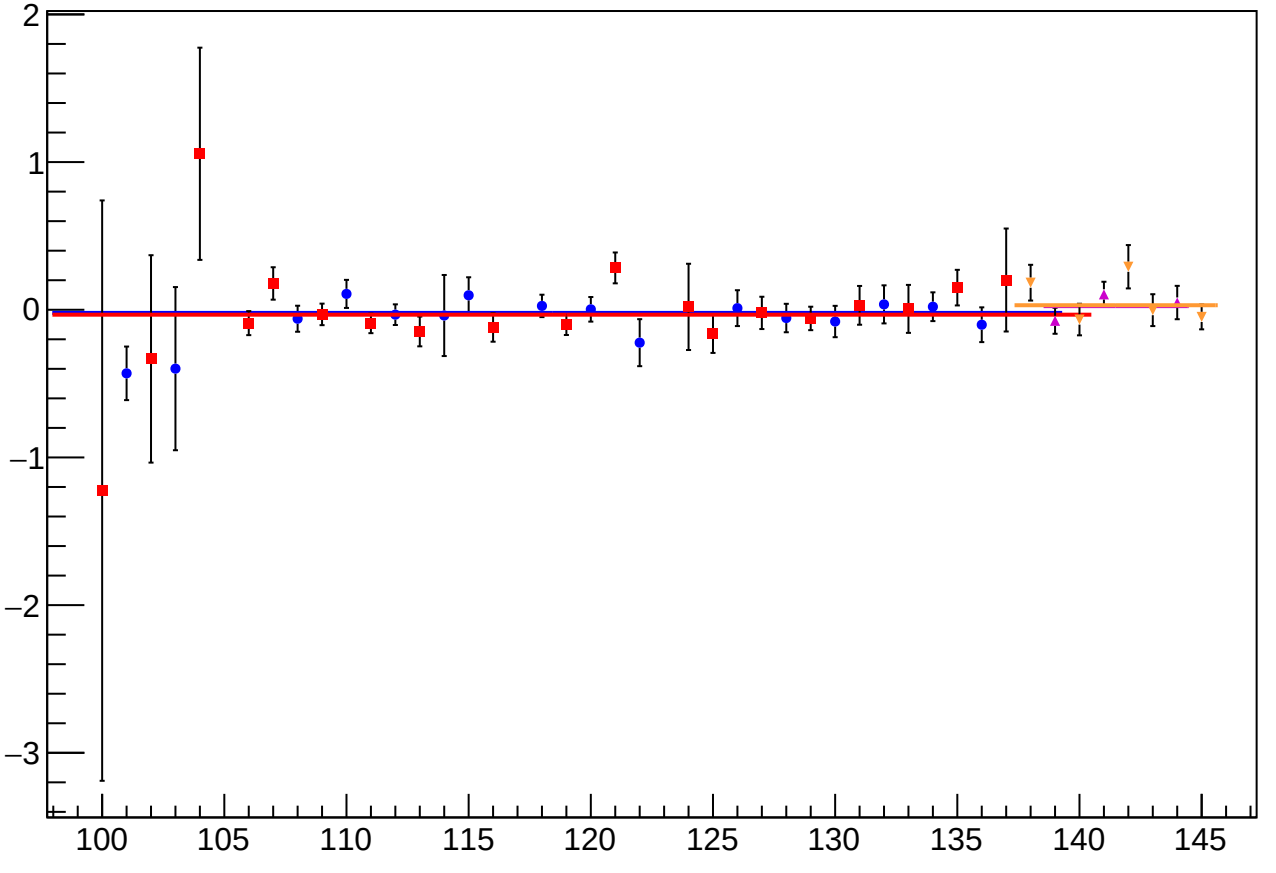
Right: 58.650+/-0.013 $\chi^2$/NDF: 4583914.2/34

In: 66.120+/-0.017 $\chi^2$/NDF:2285993.0/18

Out: 62.037+/-0.015 $\chi^2$/NDF:3376394.0/23

All: 63.908+/-0.011 $\chi^2$/NDF: 5694227.4/42

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: 0.031+/-0.048 $\chi^2$/NDF:6.5/4

Right Out: -0.033+/-0.025 $\chi^2$/NDF: 24.4/18

Left In: 0.025+/-0.054 $\chi^2$/NDF:2.2/2

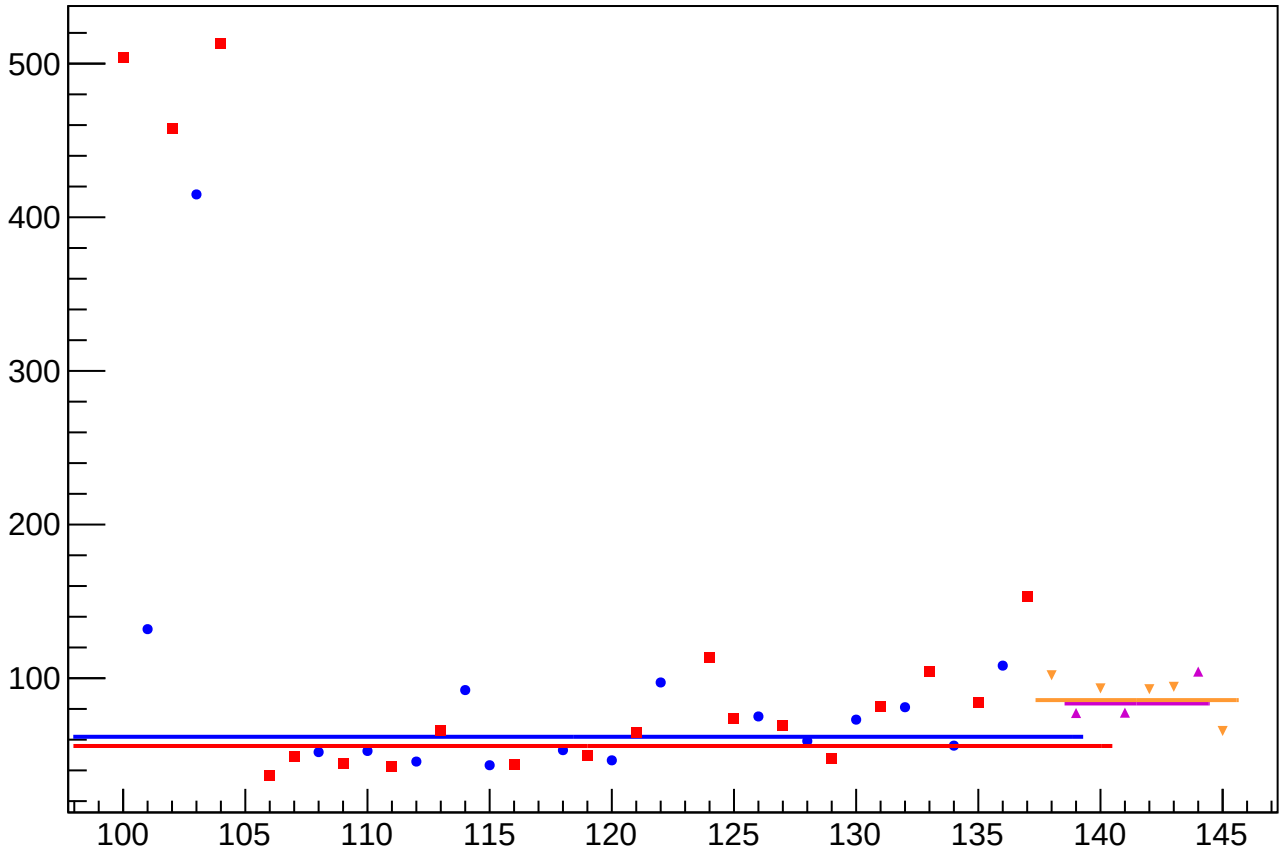
Left: 0.028+/-0.036 $\chi^2$/NDF: 8.7/7

Right: -0.028+/-0.018 $\chi^2$/NDF: 36.5/34

In: -0.012+/-0.024 $\chi^2$/NDF:14.8/18

Out: -0.020+/-0.022 $\chi^2$/NDF:32.3/23

All: -0.017+/-0.016 $\chi^2$/NDF: 47.2/42




Right In: 61.875+/-0.019 $\chi^2$/NDF: 1937904.4/15

Left Out: 85.749+/-0.034 $\chi^2$/NDF:177383.1/4

Right Out: 55.886+/-0.017 $\chi^2$/NDF: 2591233.7/18

Left In: 83.559+/-0.038 $\chi^2$/NDF:87092.7/2

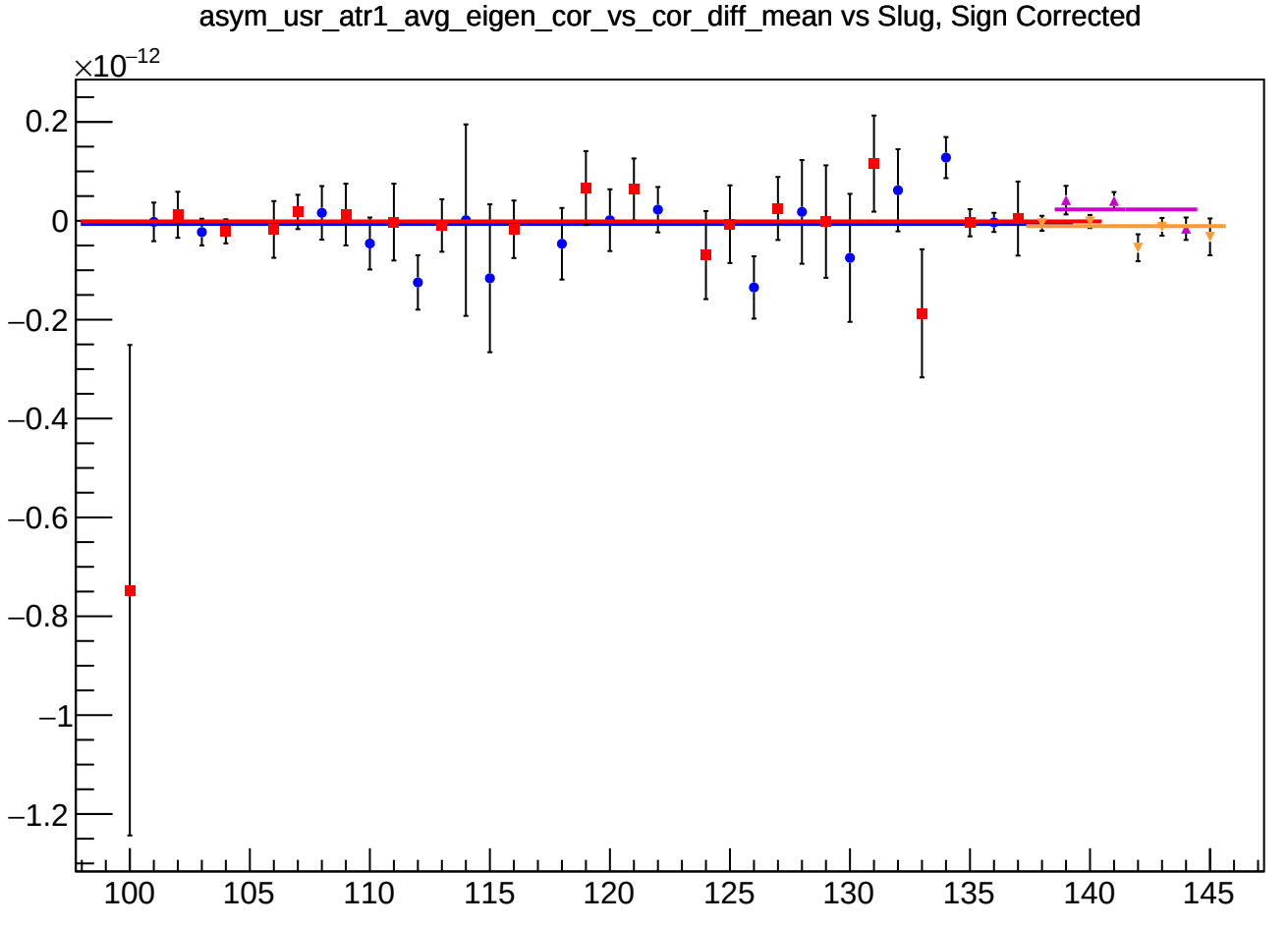
Left: 84.773+/-0.025 $\chi^2$/NDF: 266310.6/7

Right: 58.650+/-0.013 $\chi^2$/NDF: 4583914.2/34

In: 66.120+/-0.017 $\chi^2$/NDF:2285993.0/18

Out: 62.037+/-0.015 $\chi^2$/NDF:3376394.0/23

All: 63.908+/-0.011 $\chi^2$/NDF: 5694227.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 9.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.3/2

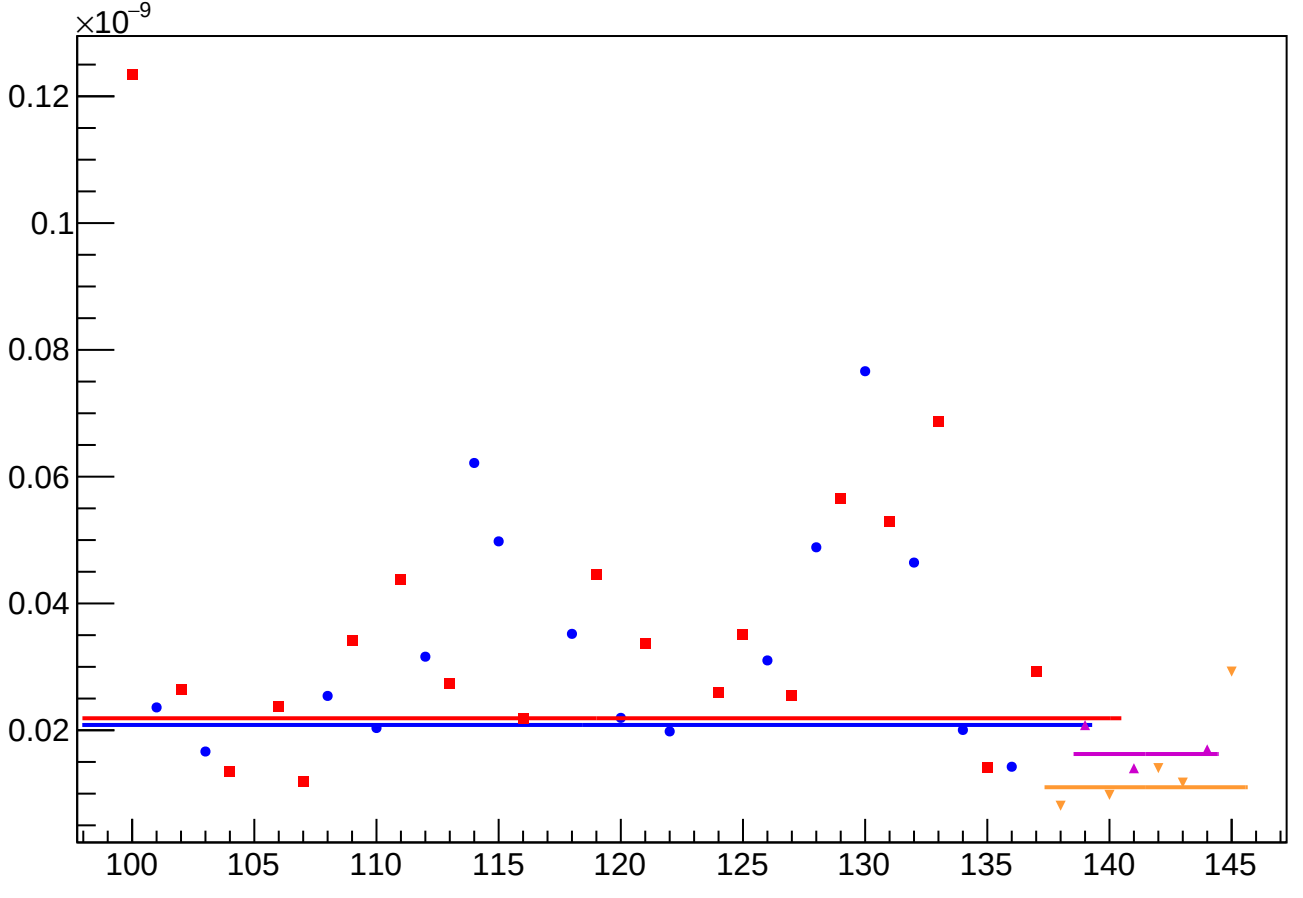
Left: -0.000+/-0.000 $\chi^2$/NDF: 12.9/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:29.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:13.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 45.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1384606.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:596485.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1906656.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:83010.2/2

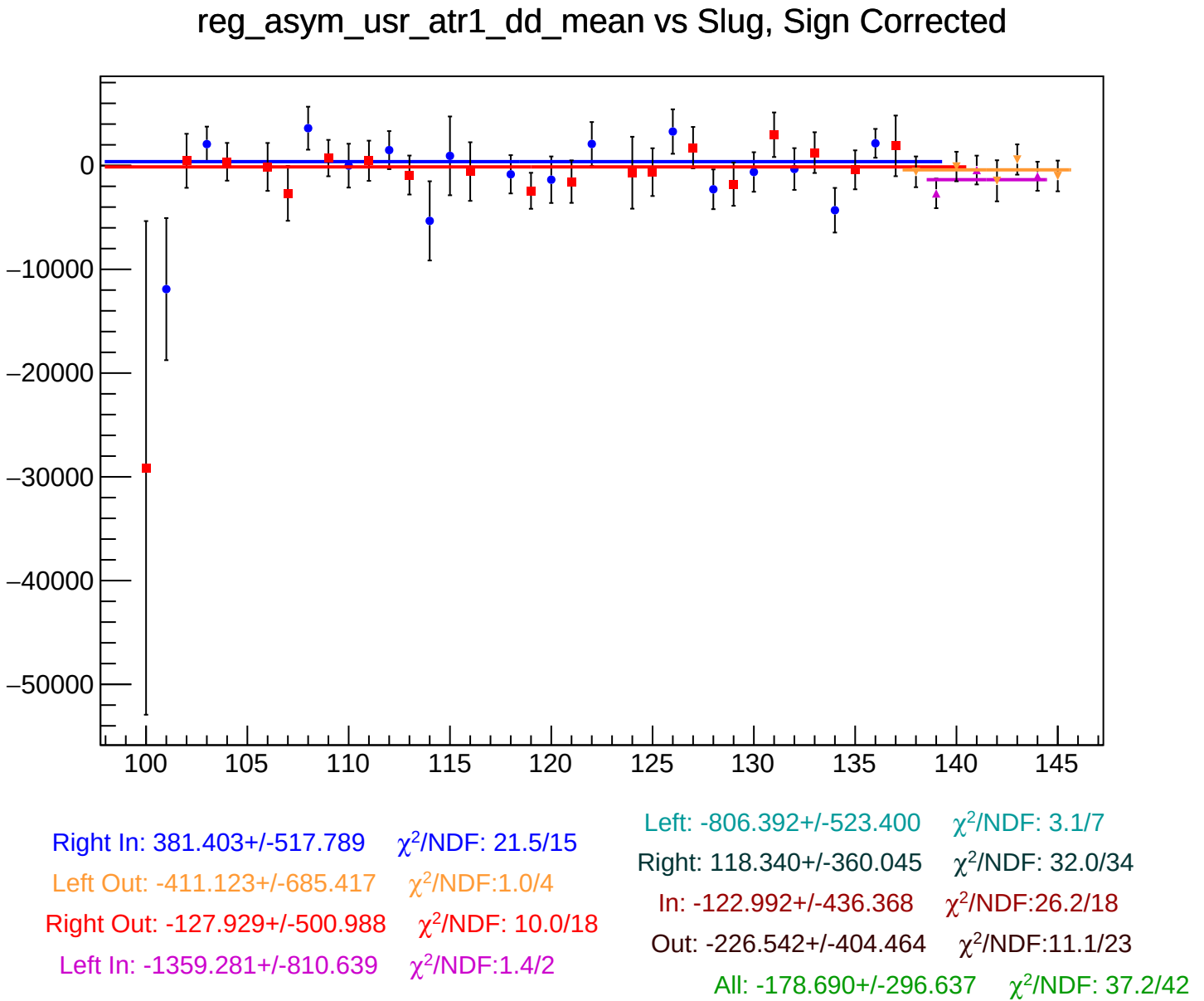
Left: 0.000+/-0.000 $\chi^2$/NDF: 921699.3/7

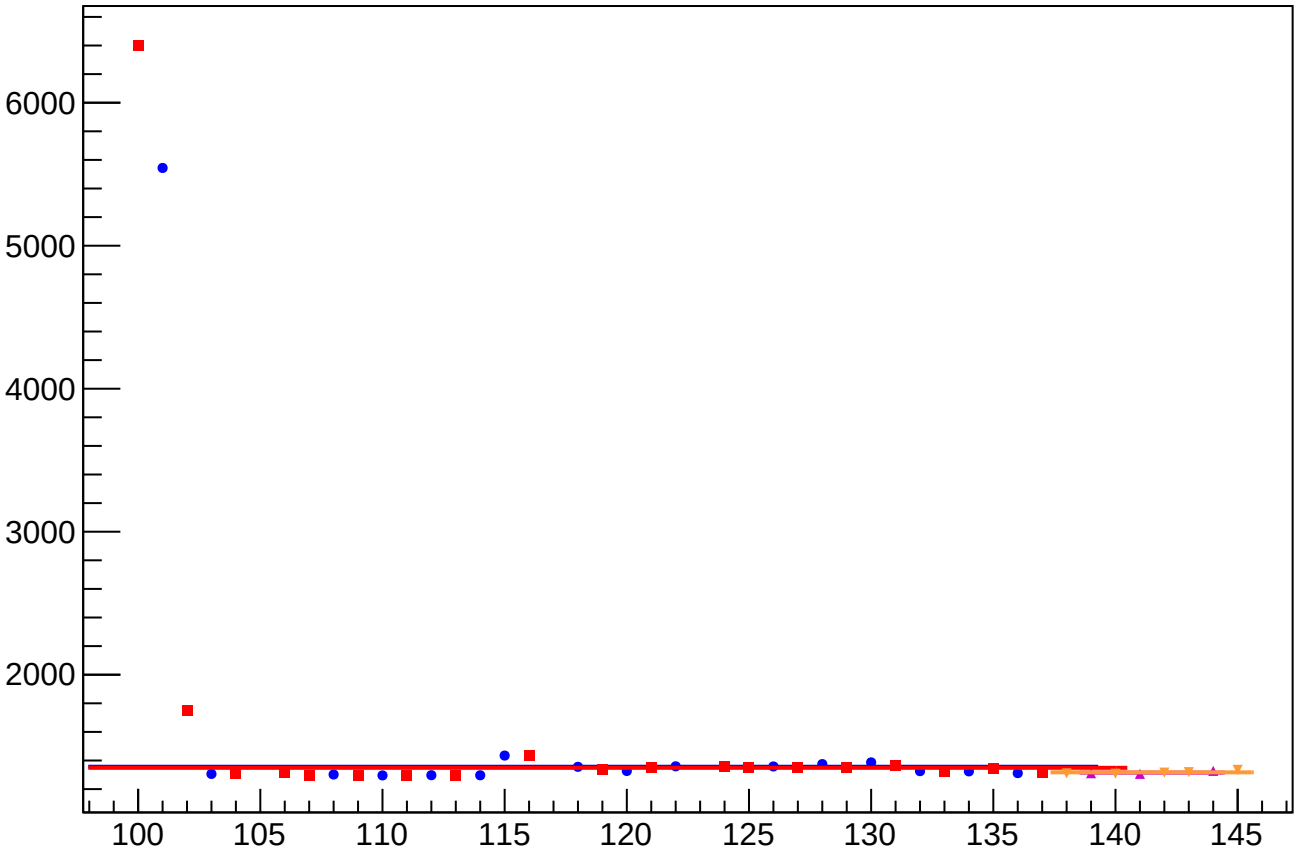
Right: 0.000+/-0.000 $\chi^2$/NDF: 3299556.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:1613410.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3644255.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5582706.1/42


reg_asym_usr_atr1_dd_mean vs Slug, Sign Corrected
0
−10000
−20000
−30000
−40000
−50000
100
105
110
115
120
125
130
135
140
145
Right In: 381.403+/-517.789 χ²/NDF: 21.5/15
Left Out: -411.123+/-685.417 χ²/NDF:1.0/4
Right Out: -127.929+/-500.988 χ²/NDF: 10.0/18
Left In: -1359.281+/-810.639 χ²/NDF:1.4/2
Left: -806.392+/-523.400 χ²/NDF: 3.1/7
Right: 118.340+/-360.045 χ²/NDF: 32.0/34
In: -122.992+/-436.368 χ²/NDF:26.2/18
Out: -226.542+/-404.464 χ²/NDF:11.1/23
All: -178.690+/-296.637 χ²/NDF: 37.2/42




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760266.3/15

Left Out: 1317.280+/-0.485 $\chi^2$/NDF:412.9/4

Right Out: 1348.975+/-0.354 $\chi^2$/NDF: 147265.6/18

Left In: 1315.150+/-0.573 $\chi^2$/NDF:248.9/2

Left: 1316.392+/-0.370 $\chi^2$/NDF: 669.8/7

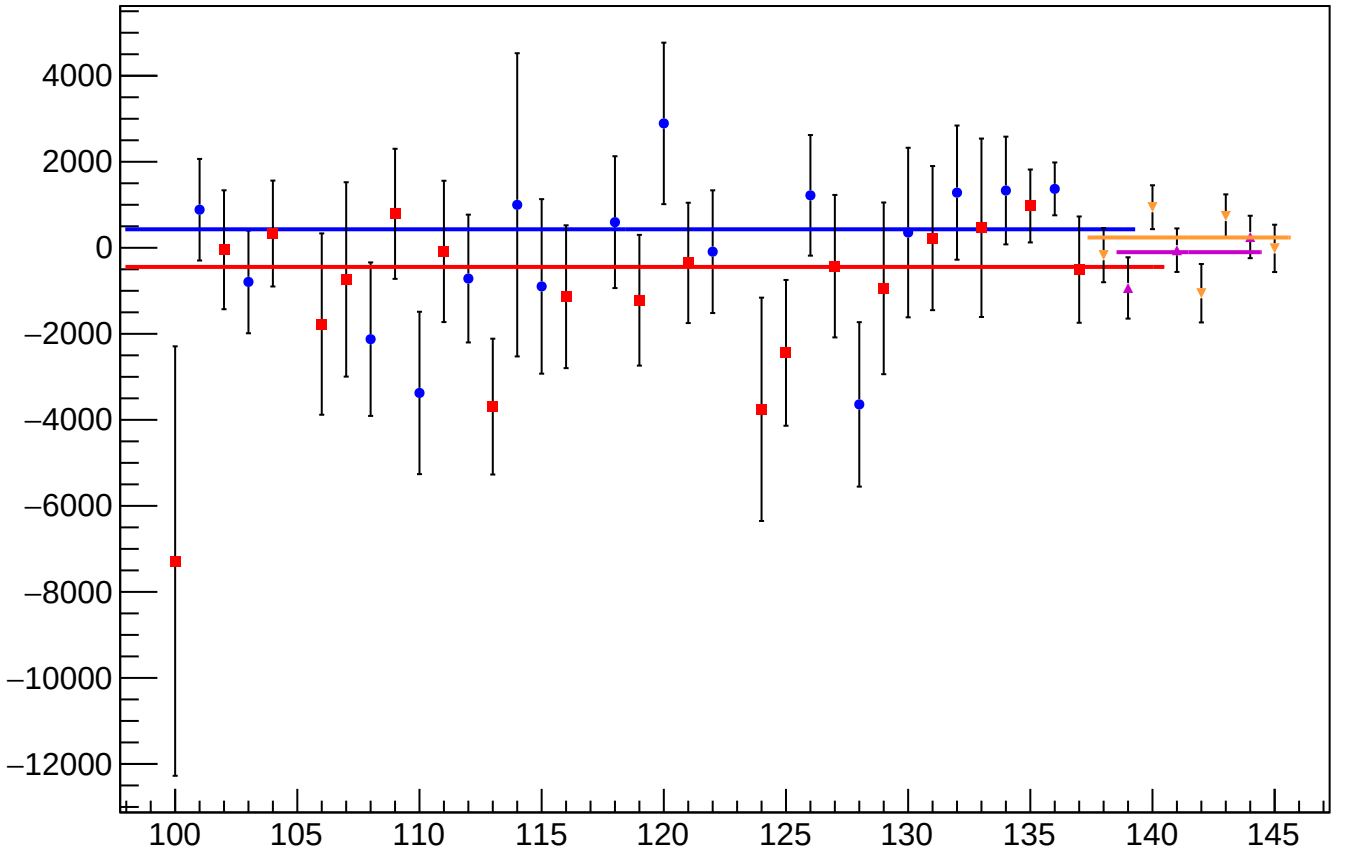
Right: 1352.564+/-0.255 $\chi^2$/NDF: 907744.1/34

In: 1344.445+/-0.309 $\chi^2$/NDF:764192.7/18

Out: 1337.938+/-0.286 $\chi^2$/NDF:150465.9/23

All: 1340.945+/-0.210 $\chi^2$/NDF: 914897.8/42

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: 239.487+/-251.750 $\chi^2$/NDF:7.2/4

Right Out: -444.555+/-355.594 $\chi^2$/NDF: 14.4/18

Left In: -101.694+/-316.504 $\chi^2$/NDF:1.9/2

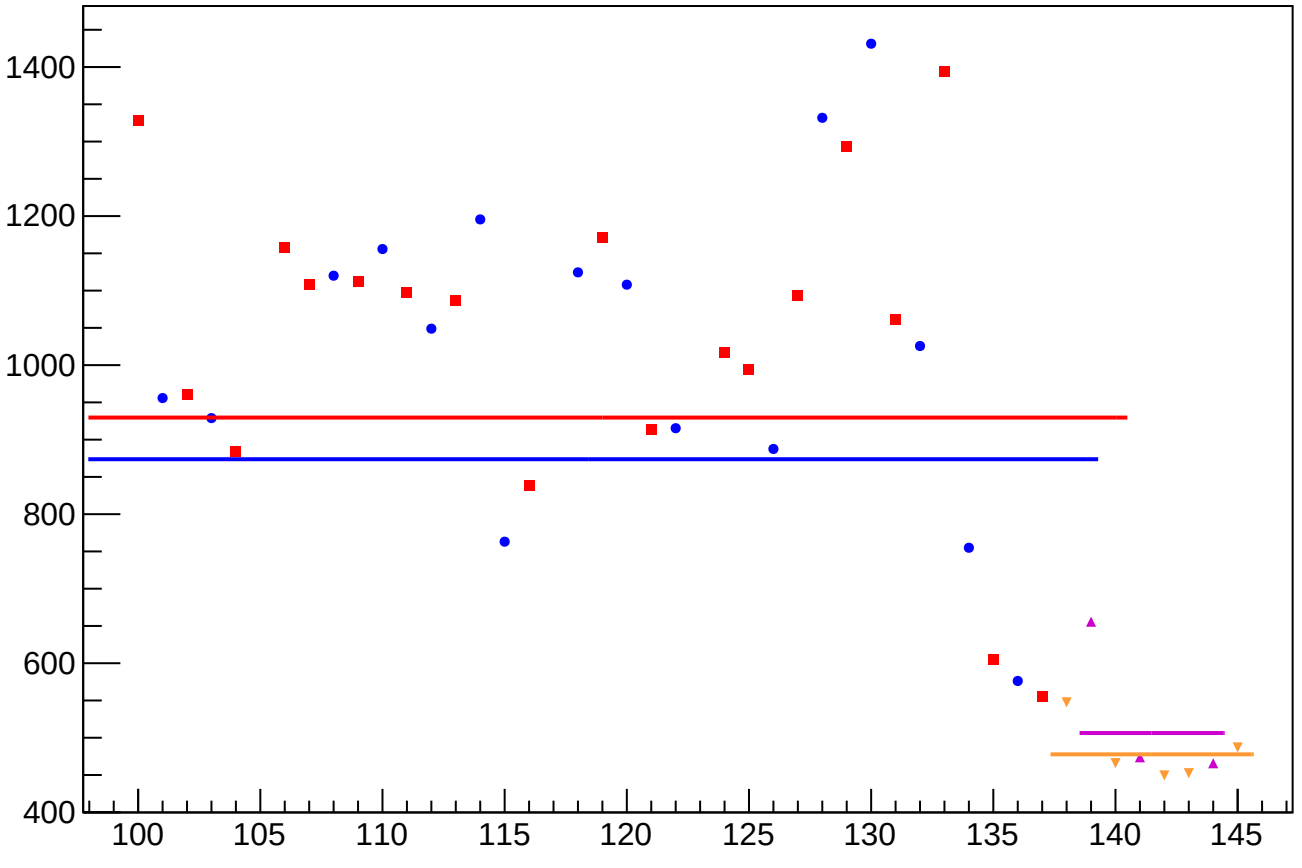
Left: 107.276+/-197.024 $\chi^2$/NDF: 9.8/7

Right: 14.491+/-245.161 $\chi^2$/NDF: 35.8/34

In: 146.519+/-231.174 $\chi^2$/NDF:21.4/18

Out: 11.102+/-205.469 $\chi^2$/NDF:24.0/23

All: 70.866+/-153.576 $\chi^2$/NDF: 45.6/42




Right In: 873.733+/-0.239 $\chi^2$/NDF: 1014860.8/15

Left Out: 477.731+/-0.178 $\chi^2$/NDF:34680.1/4

Right Out: 929.637+/-0.251 $\chi^2$/NDF: 859936.0/18

Left In: 506.334+/-0.224 $\chi^2$/NDF:109606.0/2

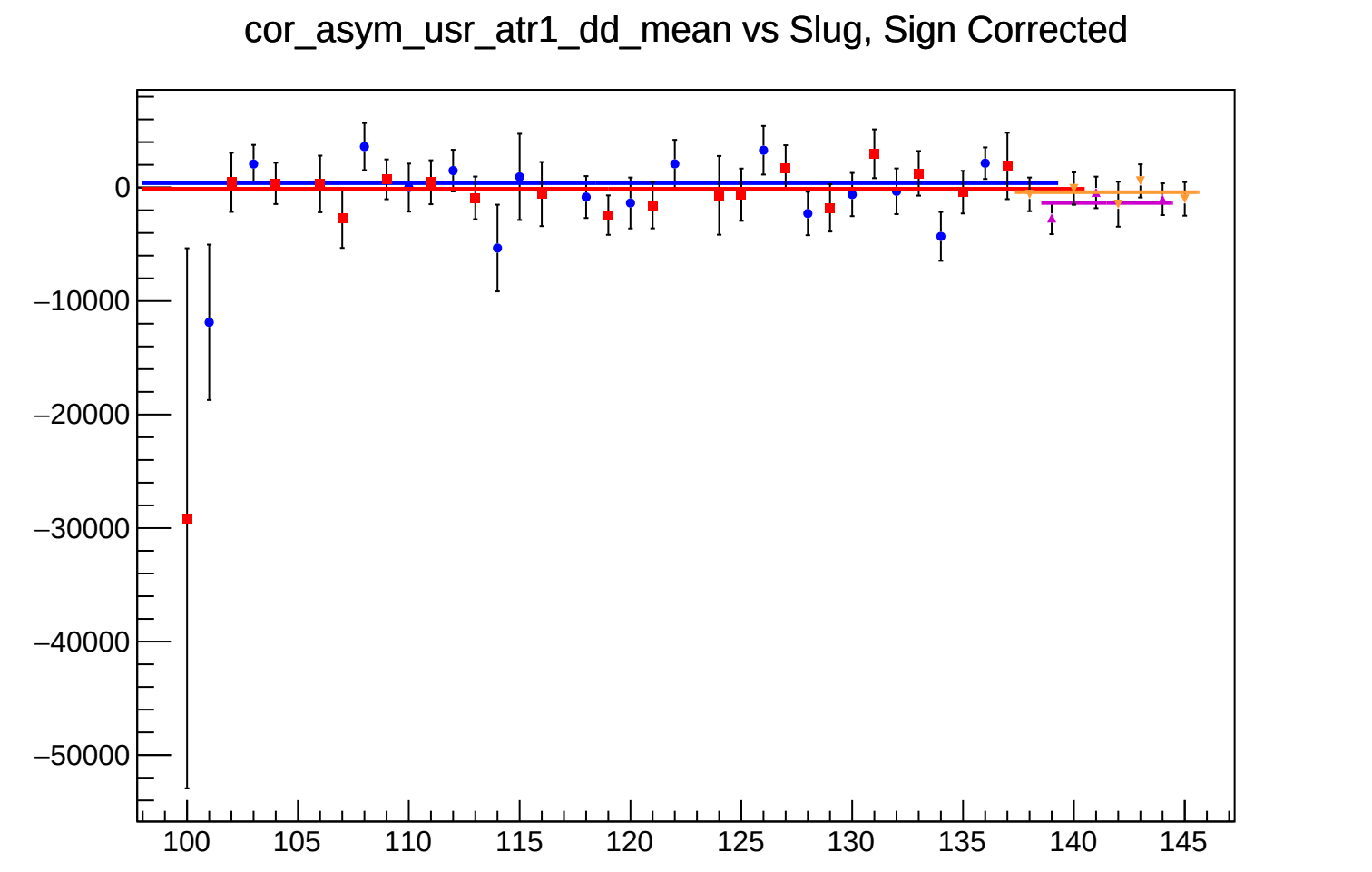
Left: 488.815+/-0.139 $\chi^2$/NDF: 154290.4/7

Right: 900.305+/-0.173 $\chi^2$/NDF: 1900732.3/34

In: 677.731+/-0.163 $\chi^2$/NDF:2381696.0/18

Out: 628.611+/-0.145 $\chi^2$/NDF:3046265.5/23

All: 650.289+/-0.109 $\chi^2$/NDF: 5478406.8/42




Right In: 381.712+/-517.789 $\chi^2$/NDF: 21.5/15

Left Out: -411.299+/-685.417 $\chi^2$/NDF:1.0/4

Right Out: -110.280+/-502.698 $\chi^2$/NDF: 10.0/18

Left In: -1359.413+/-810.639 $\chi^2$/NDF:1.4/2

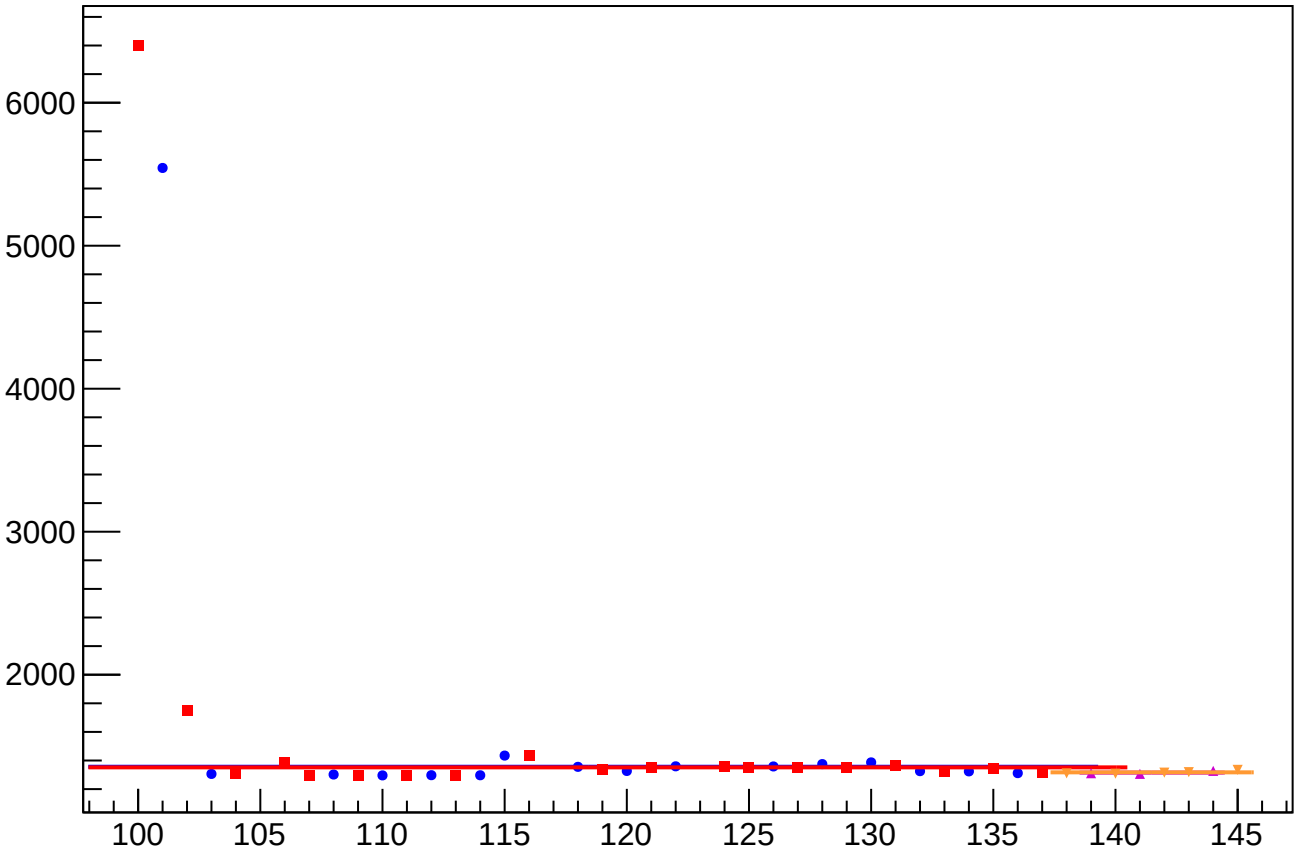
Left: -806.550+/-523.400 $\chi^2$/NDF: 3.1/7

Right: 128.442+/-360.678 $\chi^2$/NDF: 32.0/34

In: -122.811+/-436.368 $\chi^2$/NDF:26.1/18

Out: -215.566+/-405.362 $\chi^2$/NDF:11.1/23

All: -172.601+/-296.991 $\chi^2$/NDF: 37.3/42




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760265.4/15

Left Out: 1317.280+/-0.485 $\chi^2$/NDF:412.9/4

Right Out: 1352.083+/-0.355 $\chi^2$/NDF: 147326.5/18

Left In: 1315.150+/-0.573 $\chi^2$/NDF:248.9/2

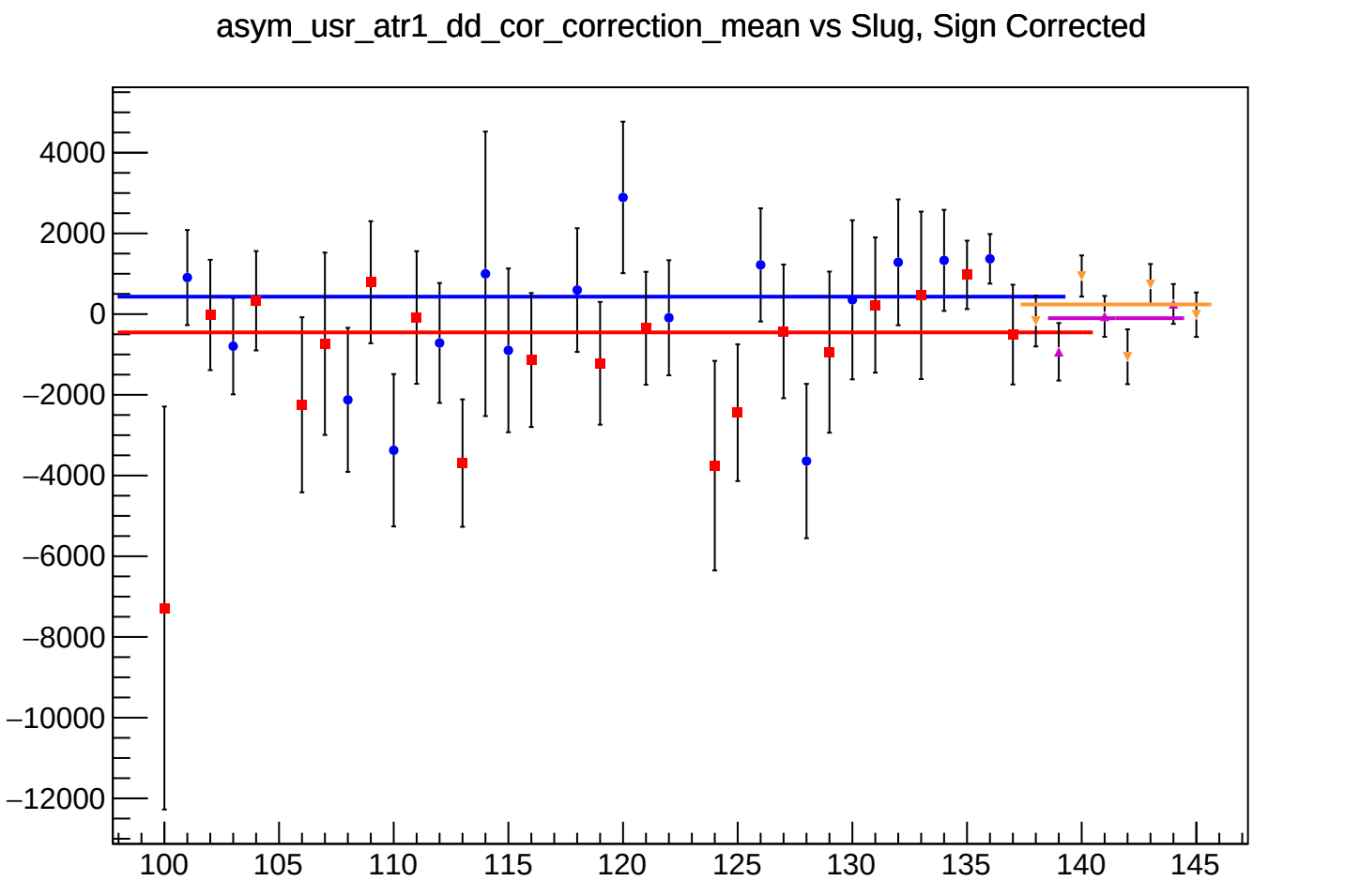
Left: 1316.392+/-0.370 $\chi^2$/NDF: 669.8/7

Right: 1354.176+/-0.255 $\chi^2$/NDF: 907663.3/34

In: 1344.445+/-0.309 $\chi^2$/NDF:764191.8/18

Out: 1339.910+/-0.287 $\chi^2$/NDF:151092.4/23

All: 1342.011+/-0.210 $\chi^2$/NDF: 915400.1/42




Right In: 432.135+/-338.403 $\chi^2$/NDF: 18.2/15

Left Out: 239.336+/-251.752 $\chi^2$/NDF:7.2/4

Right Out: -453.039+/-355.599 $\chi^2$/NDF: 14.7/18

Left In: -101.661+/-316.496 $\chi^2$/NDF:1.9/2

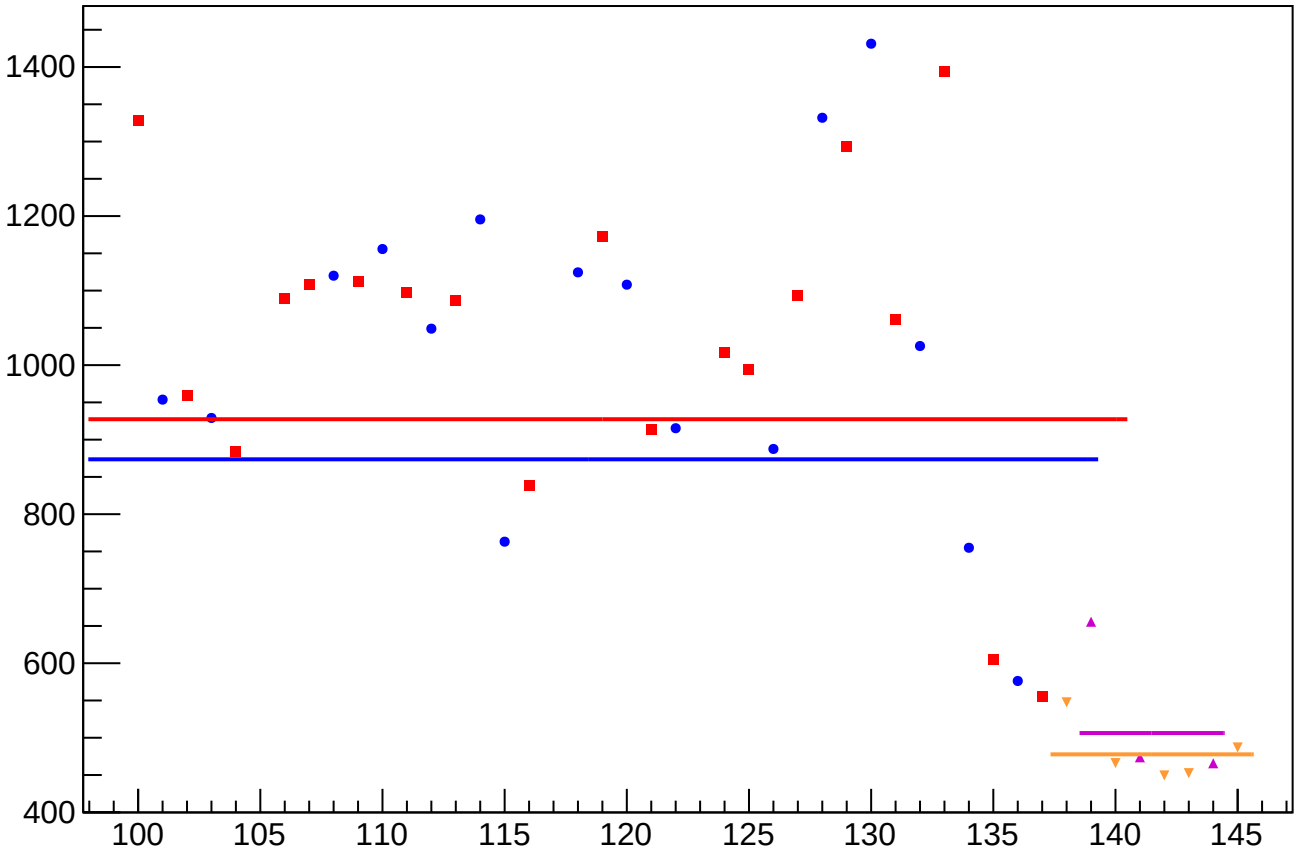
Left: 107.192+/-197.023 $\chi^2$/NDF: 9.8/7

Right: 11.468+/-245.141 $\chi^2$/NDF: 36.2/34

In: 147.401+/-231.153 $\chi^2$/NDF:21.5/18

Out: 8.172+/-205.471 $\chi^2$/NDF:24.4/23

All: 69.625+/-153.571 $\chi^2$/NDF: 46.0/42




Right In: 873.606+/-0.239 $\chi^2$/NDF: 1014405.7/15

Left Out: 477.735+/-0.178 $\chi^2$/NDF:34684.1/4

Right Out: 927.407+/-0.251 $\chi^2$/NDF: 847382.0/18

Left In: 506.321+/-0.224 $\chi^2$/NDF:109599.6/2

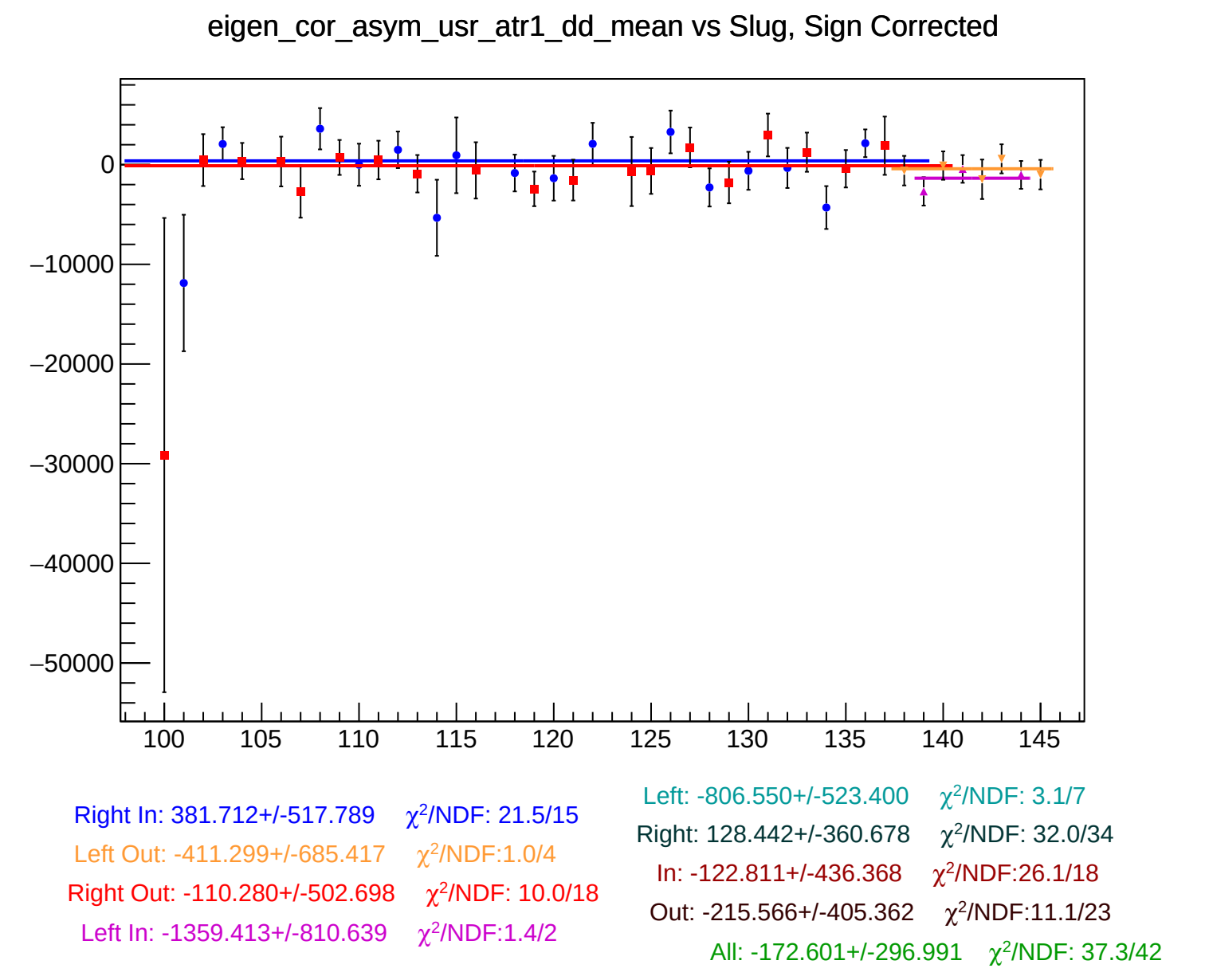
Left: 488.813+/-0.139 $\chi^2$/NDF: 154276.7/7

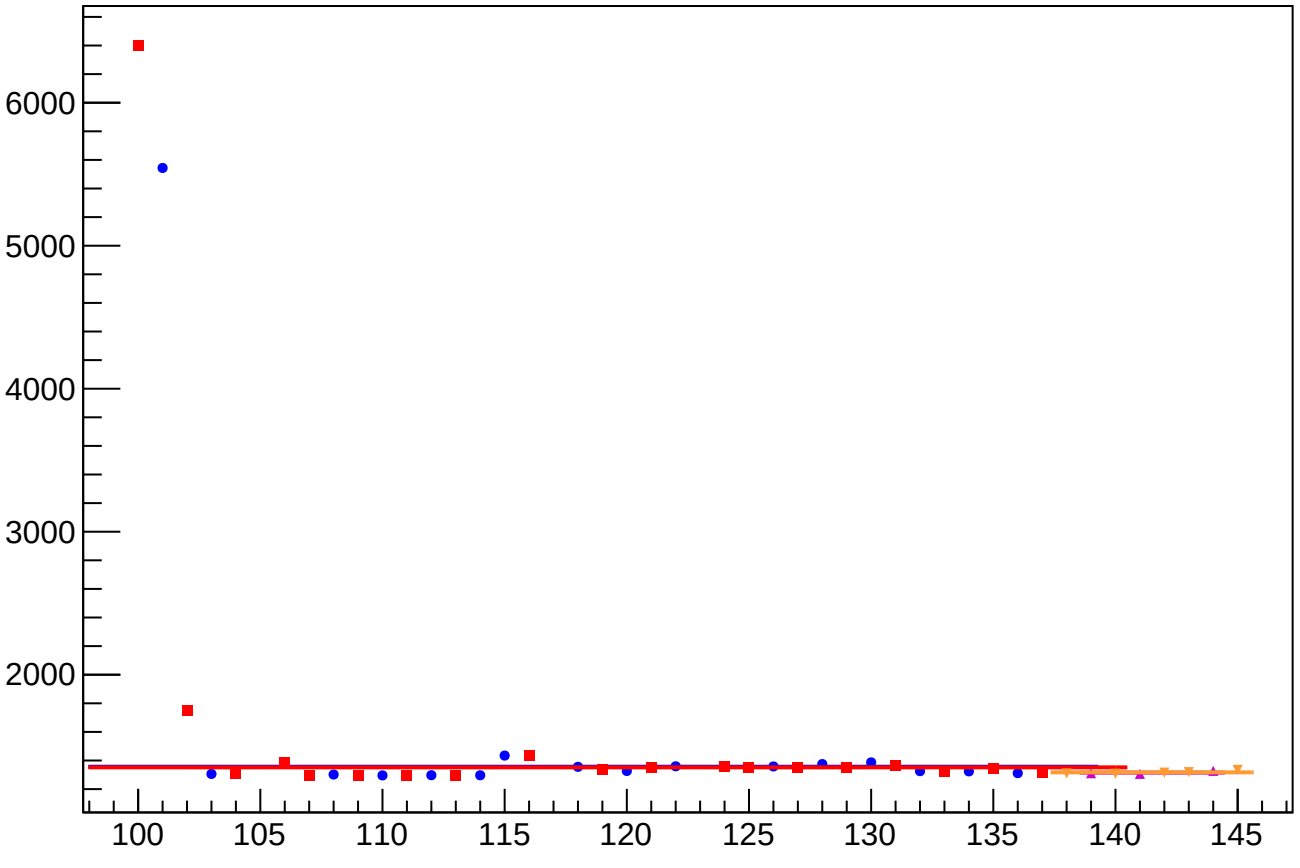
Right: 899.174+/-0.173 $\chi^2$/NDF: 1885812.2/34

In: 677.692+/-0.163 $\chi^2$/NDF:2380706.1/18

Out: 627.868+/-0.145 $\chi^2$/NDF:3012447.0/23

All: 649.859+/-0.109 $\chi^2$/NDF: 5445058.2/42


eigen_cor_asym_usr_atr1_dd_mean vs Slug, Sign Corrected
0
−10000
−20000
−30000
−40000
−50000
100
105
110
115
120
125
130
135
140
145
Right In: 381.712+/-517.789 χ²/NDF: 21.5/15
Left Out: -411.299+/-685.417 χ²/NDF:1.0/4
Right Out: -110.280+/-502.698 χ²/NDF: 10.0/18
Left In: -1359.413+/-810.639 χ²/NDF:1.4/2
Left: -806.550+/-523.400 χ²/NDF: 3.1/7
Right: 128.442+/-360.678 χ²/NDF: 32.0/34
In: -122.811+/-436.368 χ²/NDF:26.1/18
Out: -215.566+/-405.362 χ²/NDF:11.1/23
All: -172.601+/-296.991 χ²/NDF: 37.3/42




Right In: 1356.397+/-0.366 $\chi^2$/NDF: 760265.4/15

Left Out: 1317.280+/-0.485 $\chi^2$/NDF:412.9/4

Right Out: 1352.083+/-0.355 $\chi^2$/NDF: 147326.5/18

Left In: 1315.150+/-0.573 $\chi^2$/NDF:248.9/2

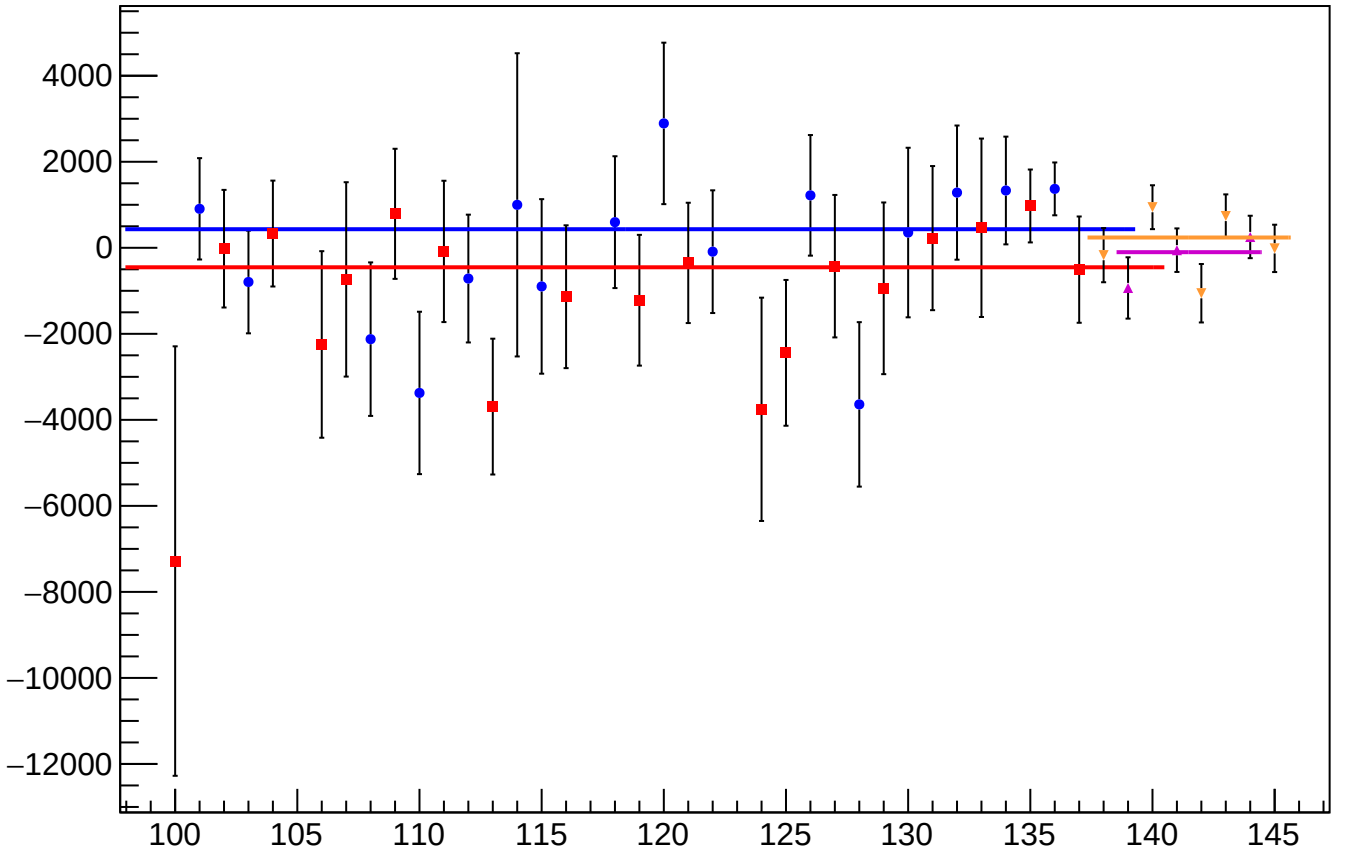
Left: 1316.392+/-0.370 $\chi^2$/NDF: 669.8/7

Right: 1354.176+/-0.255 $\chi^2$/NDF: 907663.3/34

In: 1344.445+/-0.309 $\chi^2$/NDF:764191.8/18

Out: 1339.910+/-0.287 $\chi^2$/NDF:151092.4/23

All: 1342.011+/-0.210 $\chi^2$/NDF: 915400.1/42




Right In: 432.135+/-338.403 $\chi^2$/NDF: 18.2/15

Left Out: 239.336+/-251.752 $\chi^2$/NDF:7.2/4

Right Out: -453.039+/-355.599 $\chi^2$/NDF: 14.7/18

Left In: -101.661+/-316.496 $\chi^2$/NDF:1.9/2

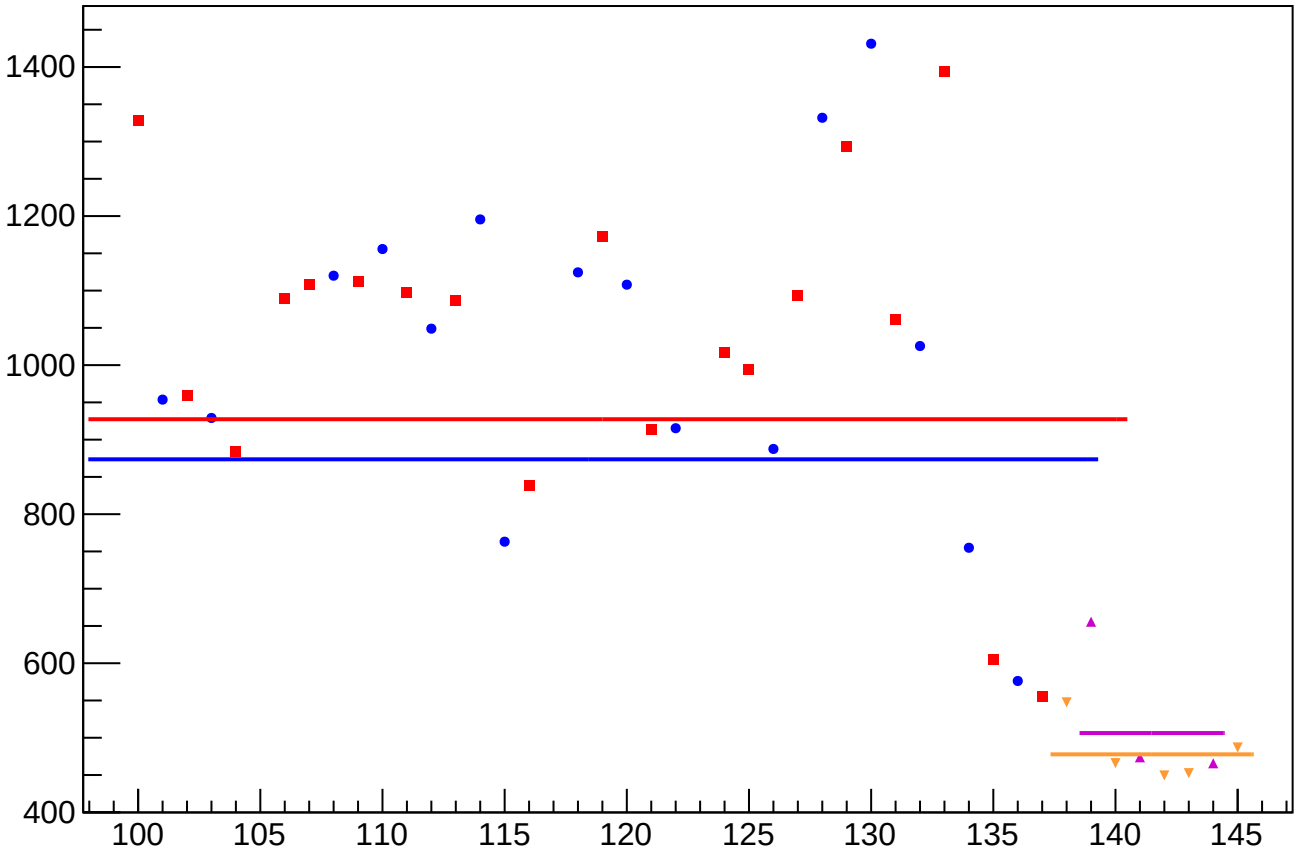
Left: 107.192+/-197.023 $\chi^2$/NDF: 9.8/7

Right: 11.468+/-245.141 $\chi^2$/NDF: 36.2/34

In: 147.401+/-231.153 $\chi^2$/NDF:21.5/18

Out: 8.172+/-205.471 $\chi^2$/NDF:24.4/23

All: 69.625+/-153.571 $\chi^2$/NDF: 46.0/42




Right In: 873.606+/-0.239 $\chi^2$/NDF: 1014405.7/15

Left Out: 477.735+/-0.178 $\chi^2$/NDF:34684.1/4

Right Out: 927.407+/-0.251 $\chi^2$/NDF: 847382.0/18

Left In: 506.321+/-0.224 $\chi^2$/NDF:109599.6/2

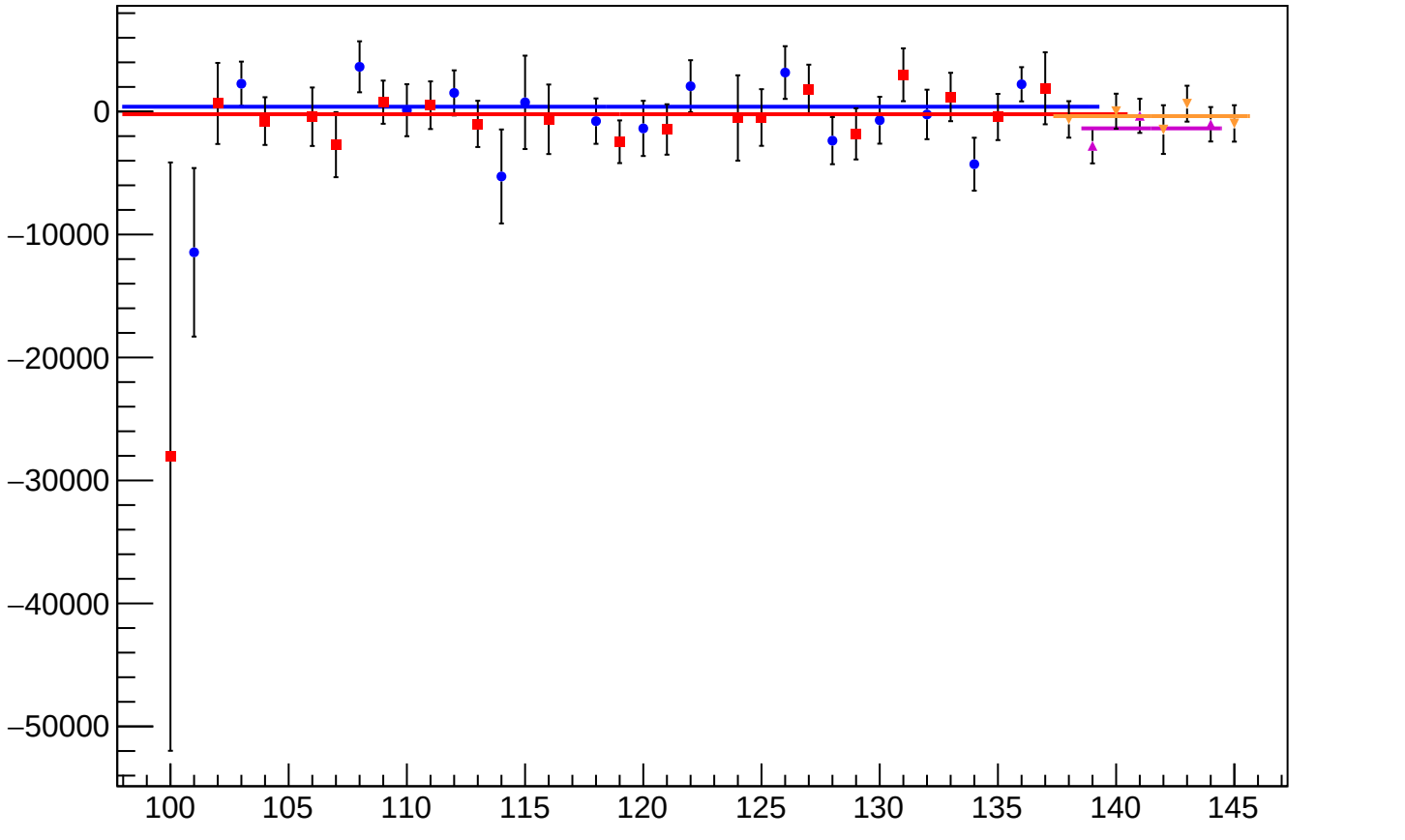
Left: 488.813+/-0.139 $\chi^2$/NDF: 154276.7/7

Right: 899.174+/-0.173 $\chi^2$/NDF: 1885812.2/34

In: 677.692+/-0.163 $\chi^2$/NDF:2380706.1/18

Out: 627.868+/-0.145 $\chi^2$/NDF:3012447.0/23

All: 649.859+/-0.109 $\chi^2$/NDF: 5445058.2/42




Right In: 389.949+/-521.159 $\chi^2$/NDF: 21.4/15

Left Out: -373.437+/-685.886 $\chi^2$/NDF:1.1/4

Right Out: -218.184+/-507.927 $\chi^2$/NDF: 10.0/18

Left In: -1369.083+/-811.154 $\chi^2$/NDF:1.6/2

Left: -788.526+/-523.747 $\chi^2$/NDF: 3.5/7

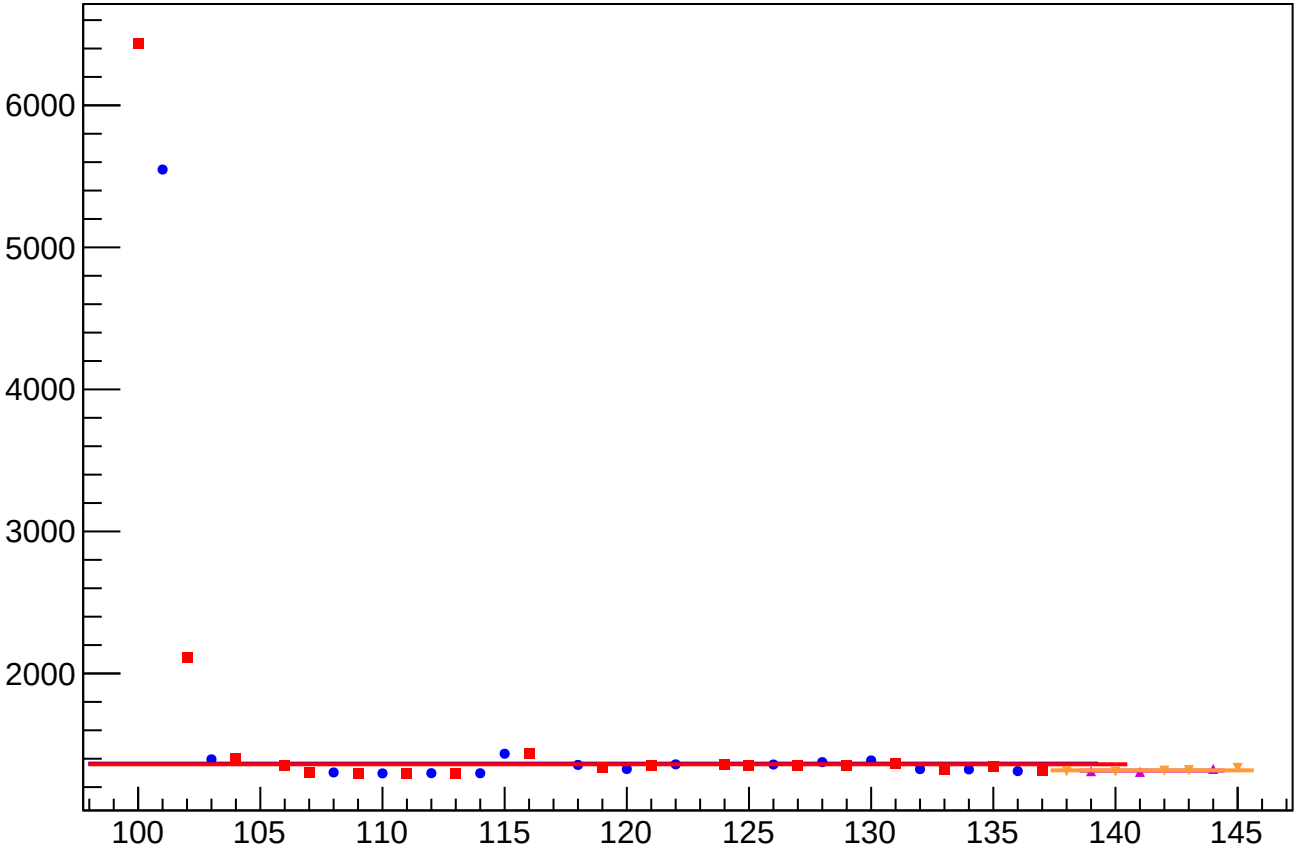
Right: 78.065+/-363.747 $\chi^2$/NDF: 32.1/34

In: -124.010+/-438.461 $\chi^2$/NDF:26.3/18

Out: -273.170+/-408.187 $\chi^2$/NDF:11.1/23

All: -203.917+/-298.762 $\chi^2$/NDF: 37.4/42

# dit_asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1365.302+/-0.369 $\chi^2$/NDF: 758944.7/15

Left Out: 1318.182+/-0.485 $\chi^2$/NDF:399.4/4

Right Out: 1360.771+/-0.359 $\chi^2$/NDF: 205315.3/18

Left In: 1315.985+/-0.574 $\chi^2$/NDF:243.6/2

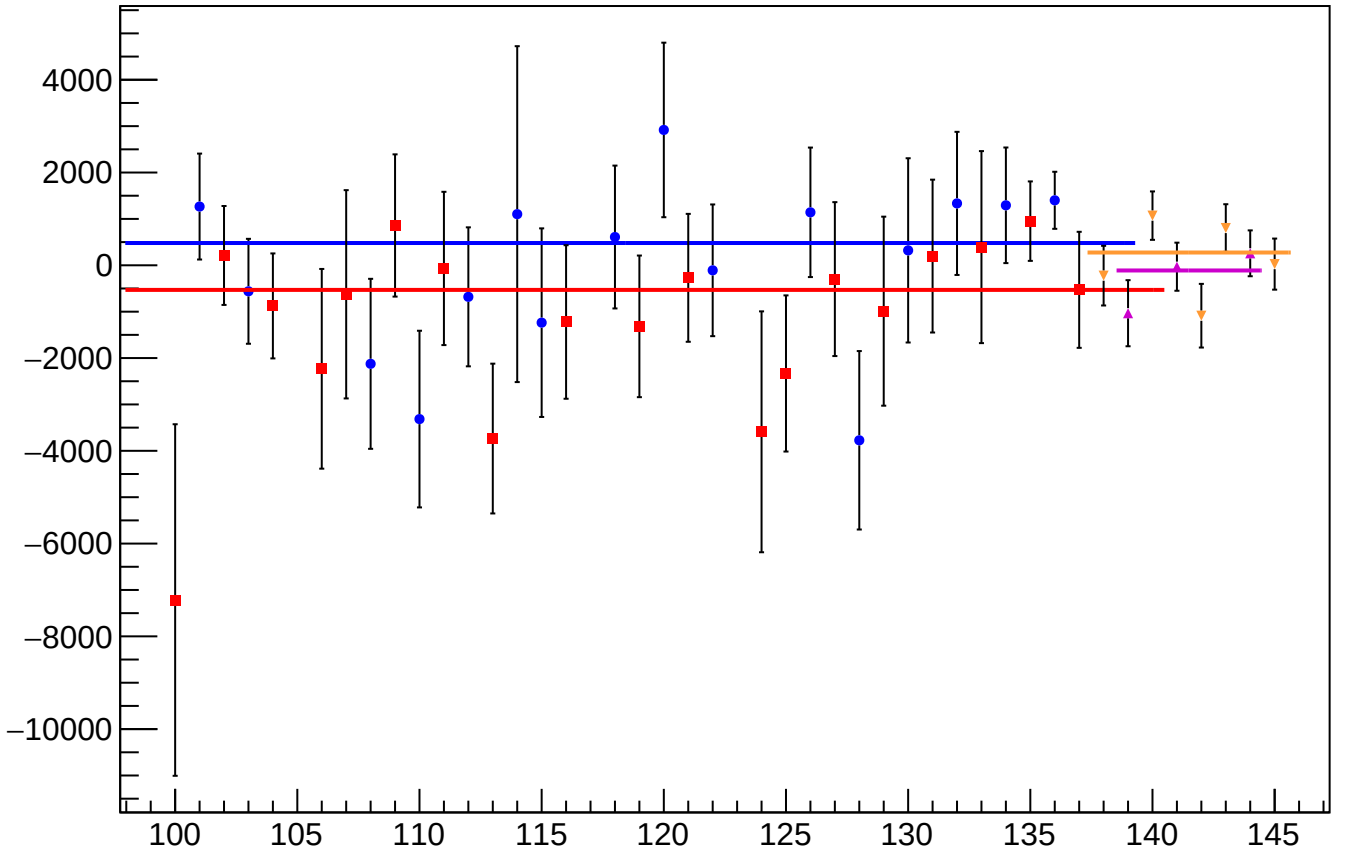
Left: 1317.266+/-0.370 $\chi^2$/NDF: 651.5/7

Right: 1362.978+/-0.257 $\chi^2$/NDF: 964337.6/34

In: 1350.892+/-0.310 $\chi^2$/NDF:764421.1/18

Out: 1345.687+/-0.289 $\chi^2$/NDF:210694.7/23

All: 1348.104+/-0.211 $\chi^2$/NDF: 975266.8/42




Right In: 480.403+/-336.520 $\chi^2$/NDF: 18.6/15

Left Out: 275.487+/-255.637 $\chi^2$/NDF:8.1/4

Right Out: -530.532+/-346.105 $\chi^2$/NDF: 15.6/18

Left In: -111.587+/-319.753 $\chi^2$/NDF:2.3/2

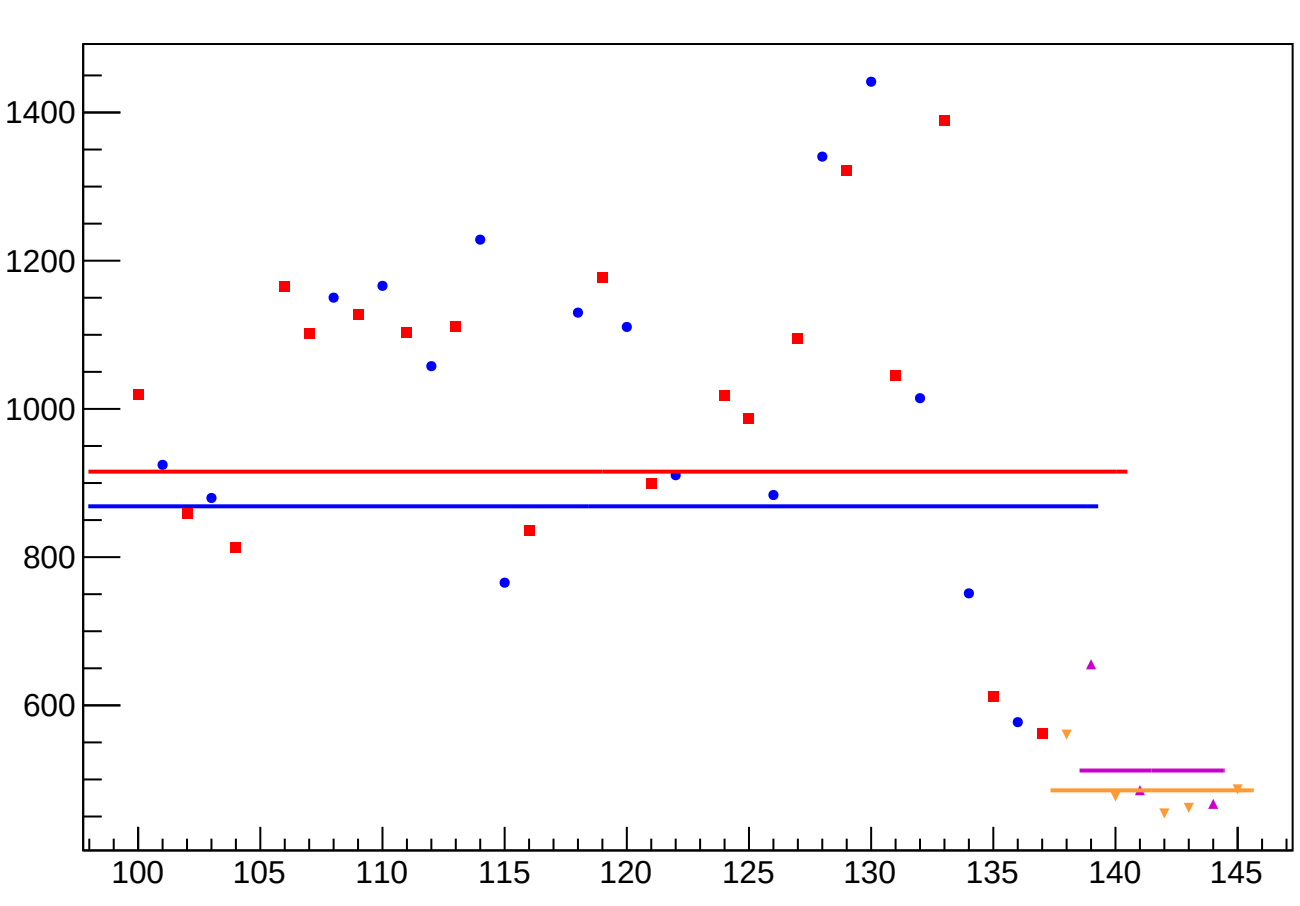
Left: 124.553+/-199.669 $\chi^2$/NDF: 11.3/7

Right: -10.874+/-241.273 $\chi^2$/NDF: 38.6/34

In: 169.293+/-231.801 $\chi^2$/NDF:22.5/18

Out: -9.021+/-205.628 $\chi^2$/NDF:27.3/23

All: 69.505+/-153.826 $\chi^2$/NDF: 50.1/42




Right In: 868.572+/-0.238 $\chi^2$/NDF: 1021338.5/15

Left Out: 485.297+/-0.181 $\chi^2$/NDF:36190.3/4

Right Out: 915.360+/-0.245 $\chi^2$/NDF: 858906.6/18

Left In: 512.057+/-0.226 $\chi^2$/NDF:102750.2/2

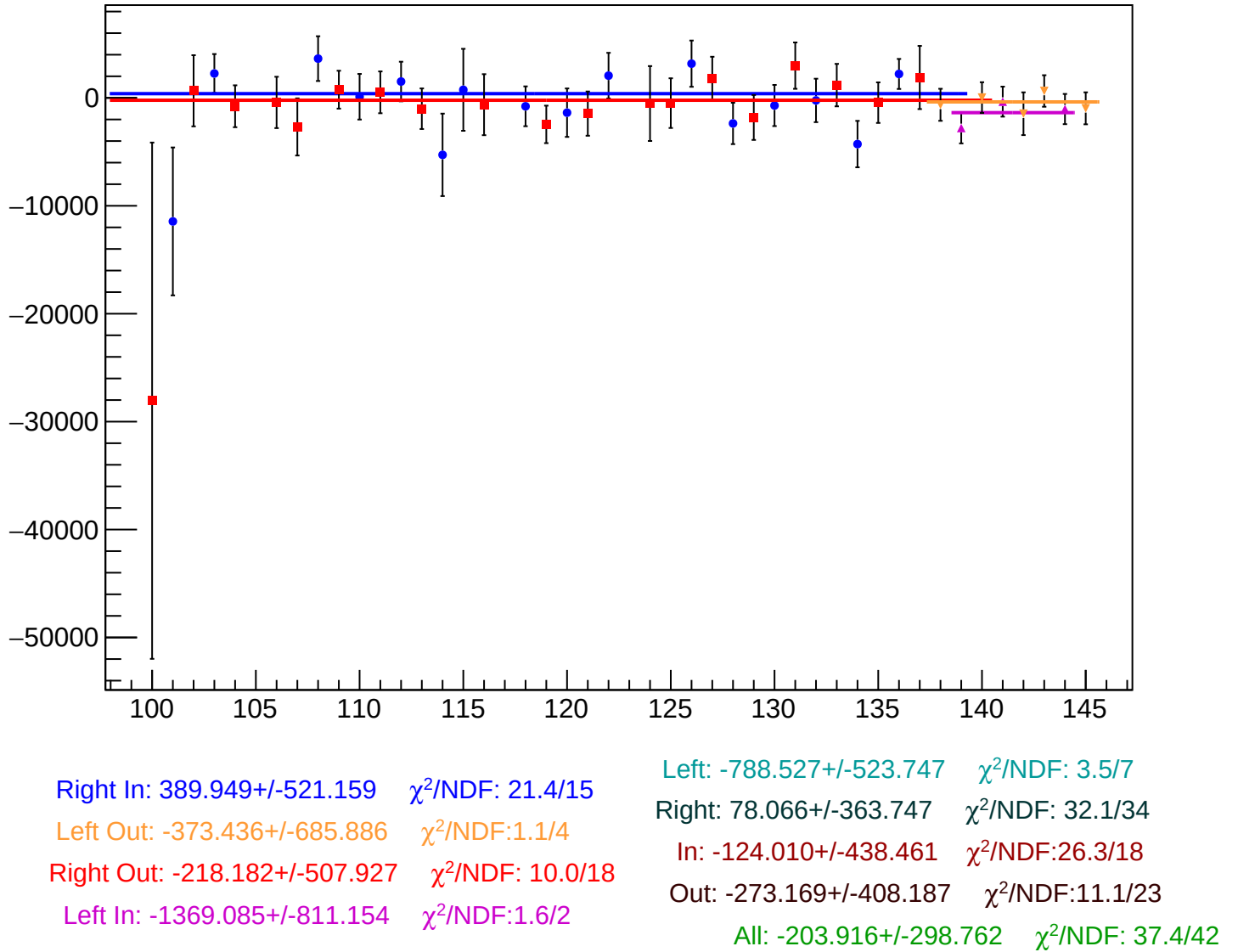
Left: 495.732+/-0.141 $\chi^2$/NDF: 147486.2/7

Right: 891.309+/-0.171 $\chi^2$/NDF: 1899033.0/34

In: 681.212+/-0.164 $\chi^2$/NDF:2303761.4/18

Out: 637.101+/-0.145 $\chi^2$/NDF:2893100.4/23

All: 656.526+/-0.109 $\chi^2$/NDF: 5237393.1/42


eigen_dit_asym_usr_atr1_dd_mean vs Slug, Sign Corrected
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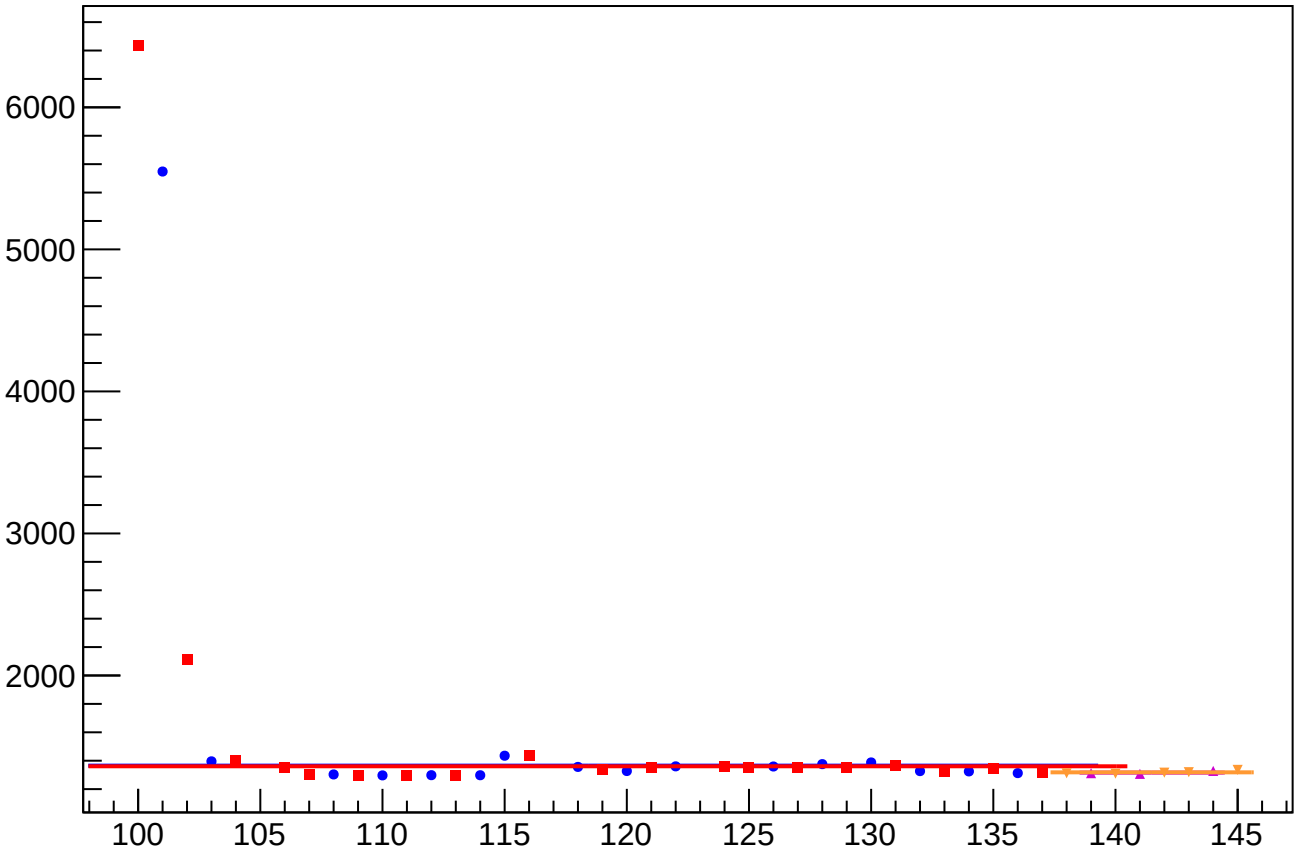
145
Right In: 389.949+/-521.159 χ²/NDF: 21.4/15
Left Out: -373.436+/-685.886 χ²/NDF:1.1/4
Right Out: -218.182+/-507.927 χ²/NDF: 10.0/18
Left In: -1369.085+/-811.154 χ²/NDF:1.6/2
Left: -788.527+/-523.747 χ²/NDF: 3.5/7
Right: 78.066+/-363.747 χ²/NDF: 32.1/34
In: -124.010+/-438.461 χ²/NDF:26.3/18
Out: -273.169+/-408.187 χ²/NDF:11.1/23
All: -203.916+/-298.762 χ²/NDF: 37.4/42




Right In: 1365.302+/-0.369 $\chi^2$/NDF: 758944.7/15

Left Out: 1318.182+/-0.485 $\chi^2$/NDF:399.4/4

Right Out: 1360.770+/-0.359 $\chi^2$/NDF: 205315.2/18

Left In: 1315.985+/-0.574 $\chi^2$/NDF:243.6/2

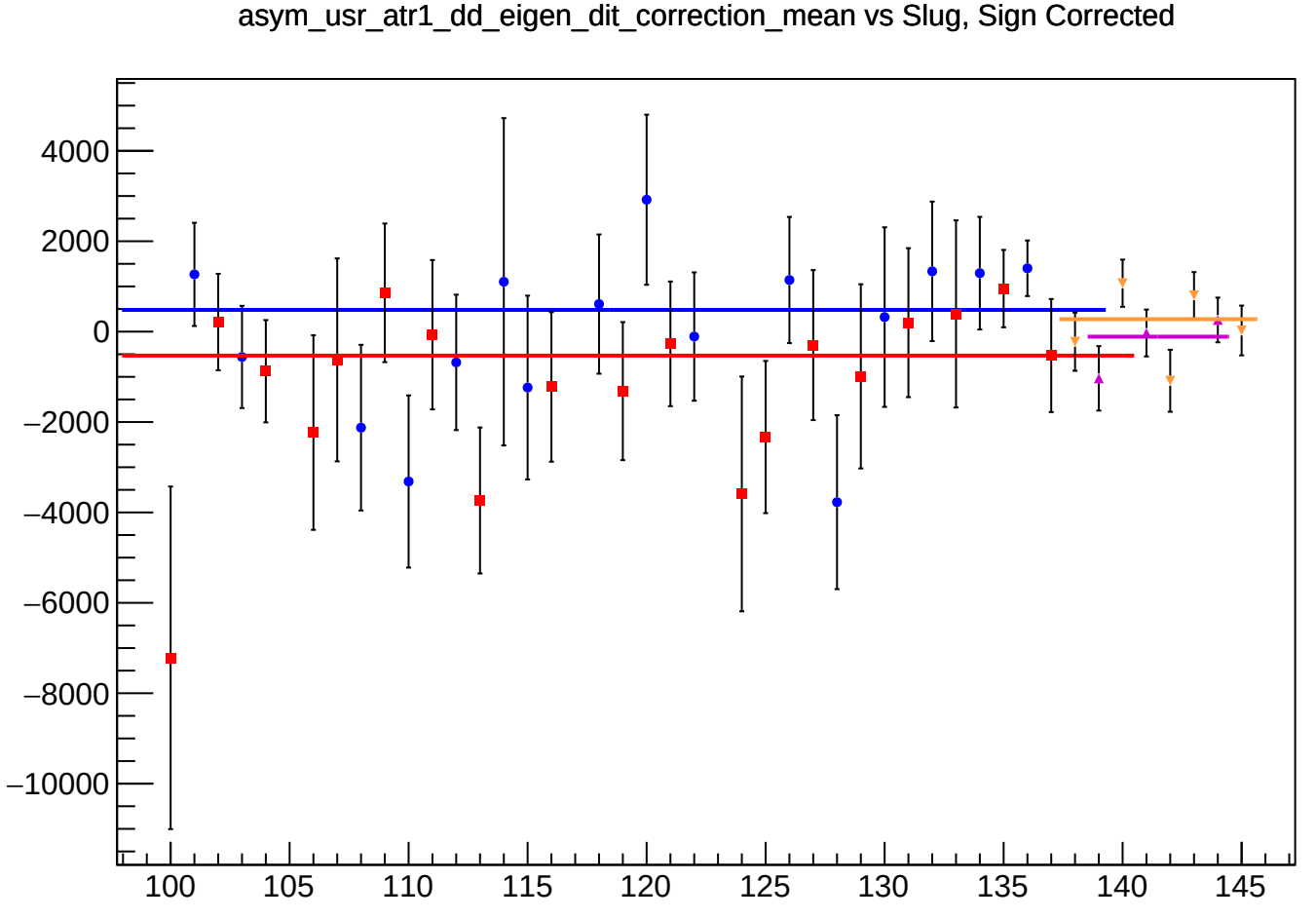
Left: 1317.266+/-0.370 $\chi^2$/NDF: 651.5/7

Right: 1362.978+/-0.257 $\chi^2$/NDF: 964337.5/34

In: 1350.892+/-0.310 $\chi^2$/NDF:764421.0/18

Out: 1345.687+/-0.289 $\chi^2$/NDF:210694.7/23

All: 1348.104+/-0.211 $\chi^2$/NDF: 975266.7/42




Right In: 480.400+/-336.519 $\chi^2$/NDF: 18.6/15

Left Out: 275.490+/-255.637 $\chi^2$/NDF:8.1/4

Right Out: -530.531+/-346.104 $\chi^2$/NDF: 15.6/18

Left In: -111.587+/-319.754 $\chi^2$/NDF:2.3/2

Left: 124.556+/-199.669 $\chi^2$/NDF: 11.3/7

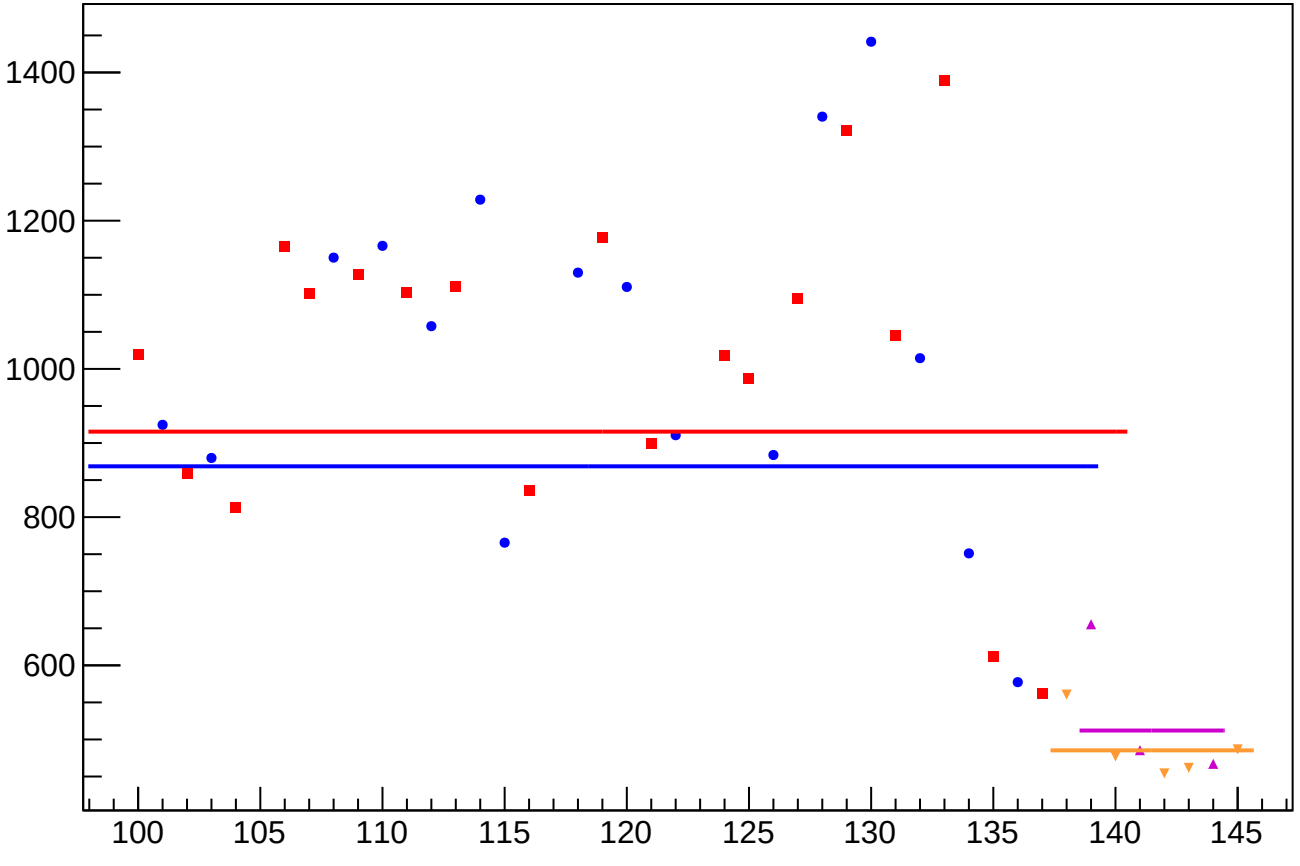
Right: -10.874+/-241.273 $\chi^2$/NDF: 38.6/34

In: 169.293+/-231.801 $\chi^2$/NDF:22.5/18

Out: -9.020+/-205.628 $\chi^2$/NDF:27.3/23

All: 69.506+/-153.826 $\chi^2$/NDF: 50.1/42

asym_usr_atr1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 868.570+/-0.238 $\chi^2$/NDF: 1021337.1/15

Left Out: 485.297+/-0.181 $\chi^2$/NDF:36191.1/4

Right Out: 915.358+/-0.245 $\chi^2$/NDF: 858906.3/18

Left In: 512.058+/-0.226 $\chi^2$/NDF:102752.1/2

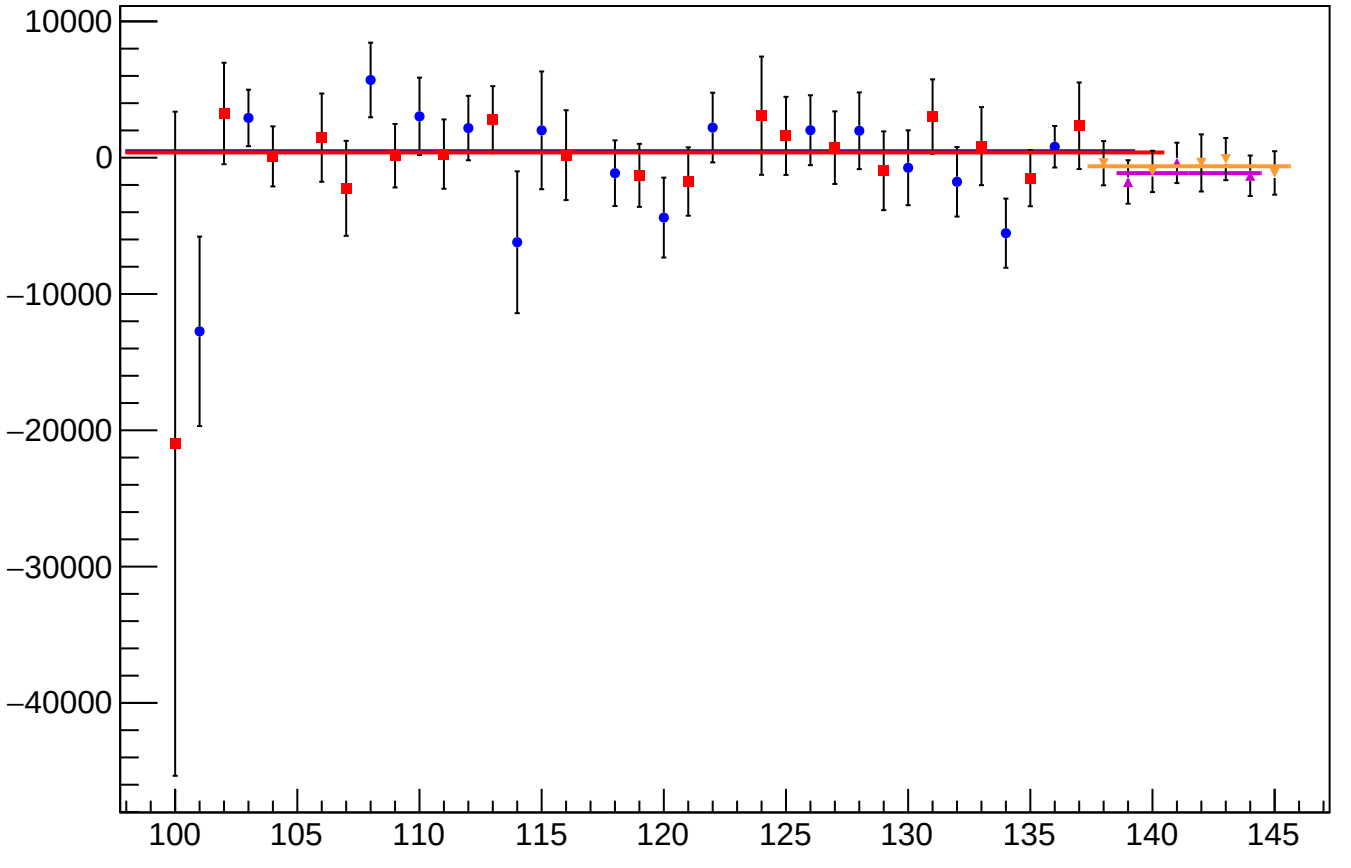
Left: 495.732+/-0.141 $\chi^2$/NDF: 147489.5/7

Right: 891.307+/-0.171 $\chi^2$/NDF: 1899032.0/34

In: 681.212+/-0.164 $\chi^2$/NDF:2303745.2/18

Out: 637.100+/-0.145 $\chi^2$/NDF:2893095.1/23

All: 656.526+/-0.109 $\chi^2$/NDF: 5237372.6/42




Right In: 473.494+/-649.243 $\chi^2$/NDF: 22.7/15

Left Out: -627.162+/-734.767 $\chi^2$/NDF:0.3/4

Right Out: 384.785+/-641.994 $\chi^2$/NDF: 7.3/18

Left In: -1132.283+/-876.400 $\chi^2$/NDF:0.4/2

Left: -835.659+/-563.060 $\chi^2$/NDF: 0.9/7

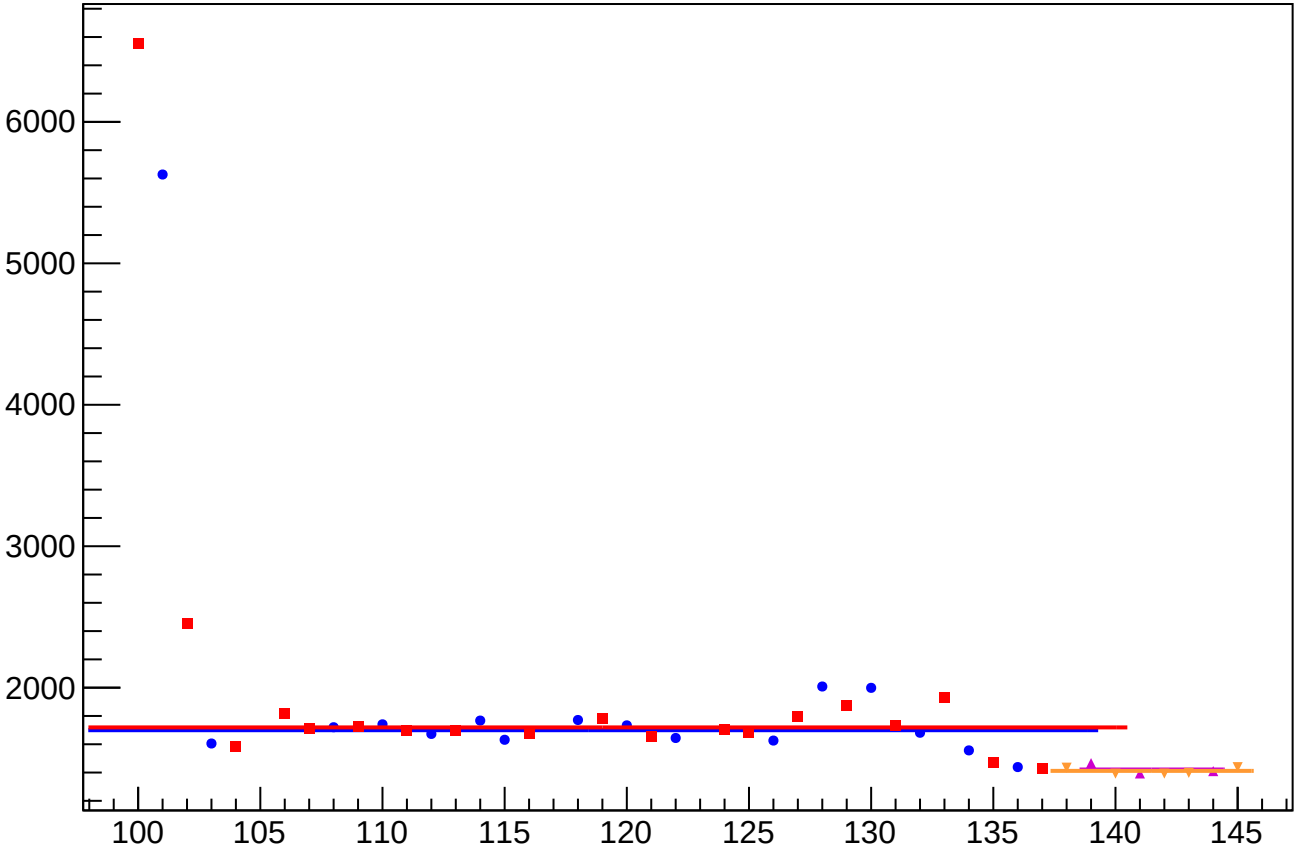
Right: 428.642+/-456.500 $\chi^2$/NDF: 30.0/34

In: -95.491+/-521.687 $\chi^2$/NDF:25.3/18

Out: -53.307+/-483.452 $\chi^2$/NDF:8.6/23

All: -72.796+/-354.600 $\chi^2$/NDF: 33.9/42

# asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1699.330+/-0.459 $\chi^2$/NDF: 762097.7/15

Left Out: 1411.783+/-0.520 $\chi^2$/NDF:1587.2/4

Right Out: 1719.103+/-0.454 $\chi^2$/NDF: 233751.6/18

Left In: 1421.470+/-0.620 $\chi^2$/NDF:2427.8/2

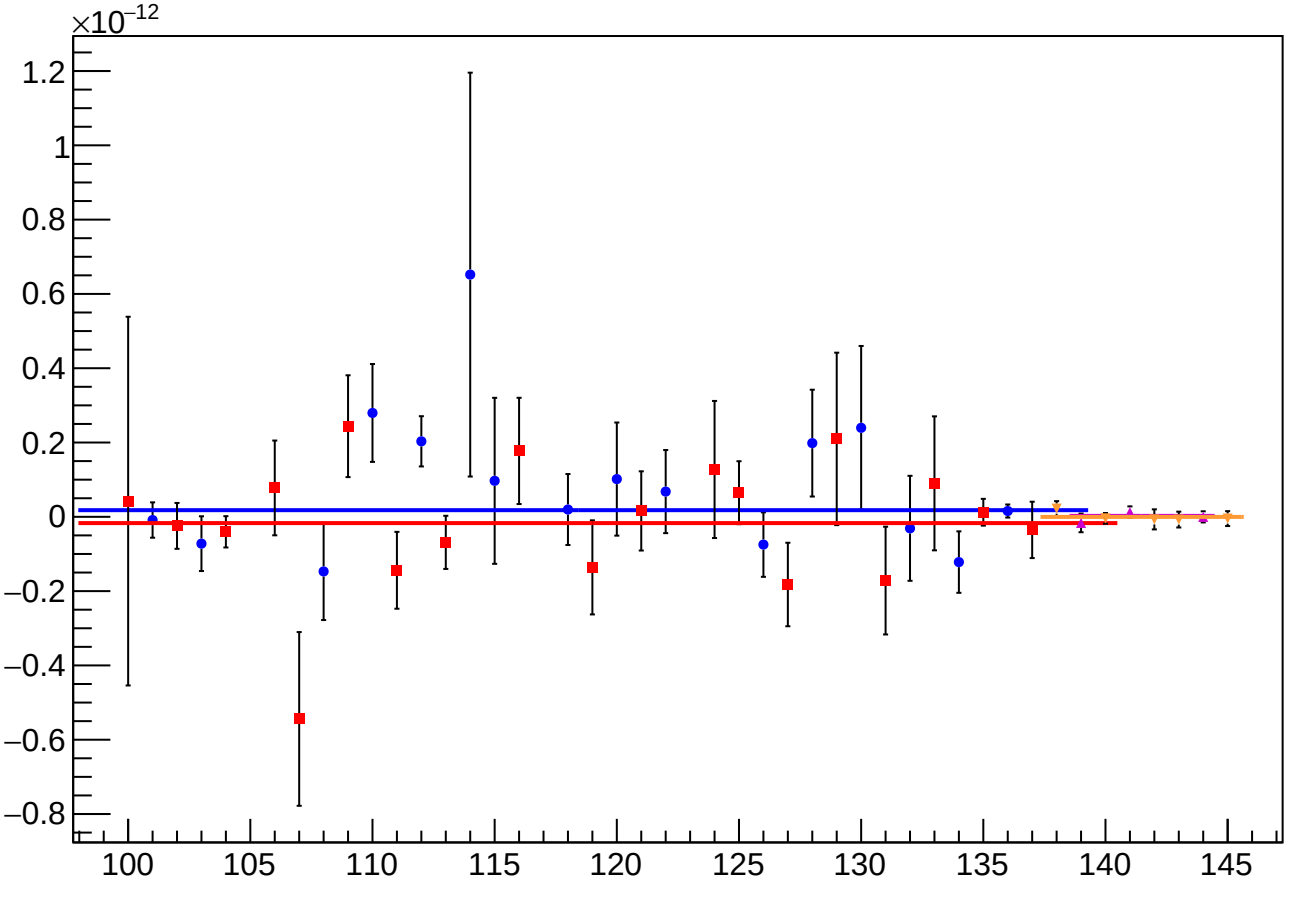
Left: 1415.782+/-0.398 $\chi^2$/NDF: 4158.4/7

Right: 1709.327+/-0.323 $\chi^2$/NDF: 996787.3/34

In: 1600.874+/-0.369 $\chi^2$/NDF:894328.0/18

Out: 1586.058+/-0.342 $\chi^2$/NDF:433745.0/23

All: 1592.903+/-0.251 $\chi^2$/NDF: 1328940.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.0/2

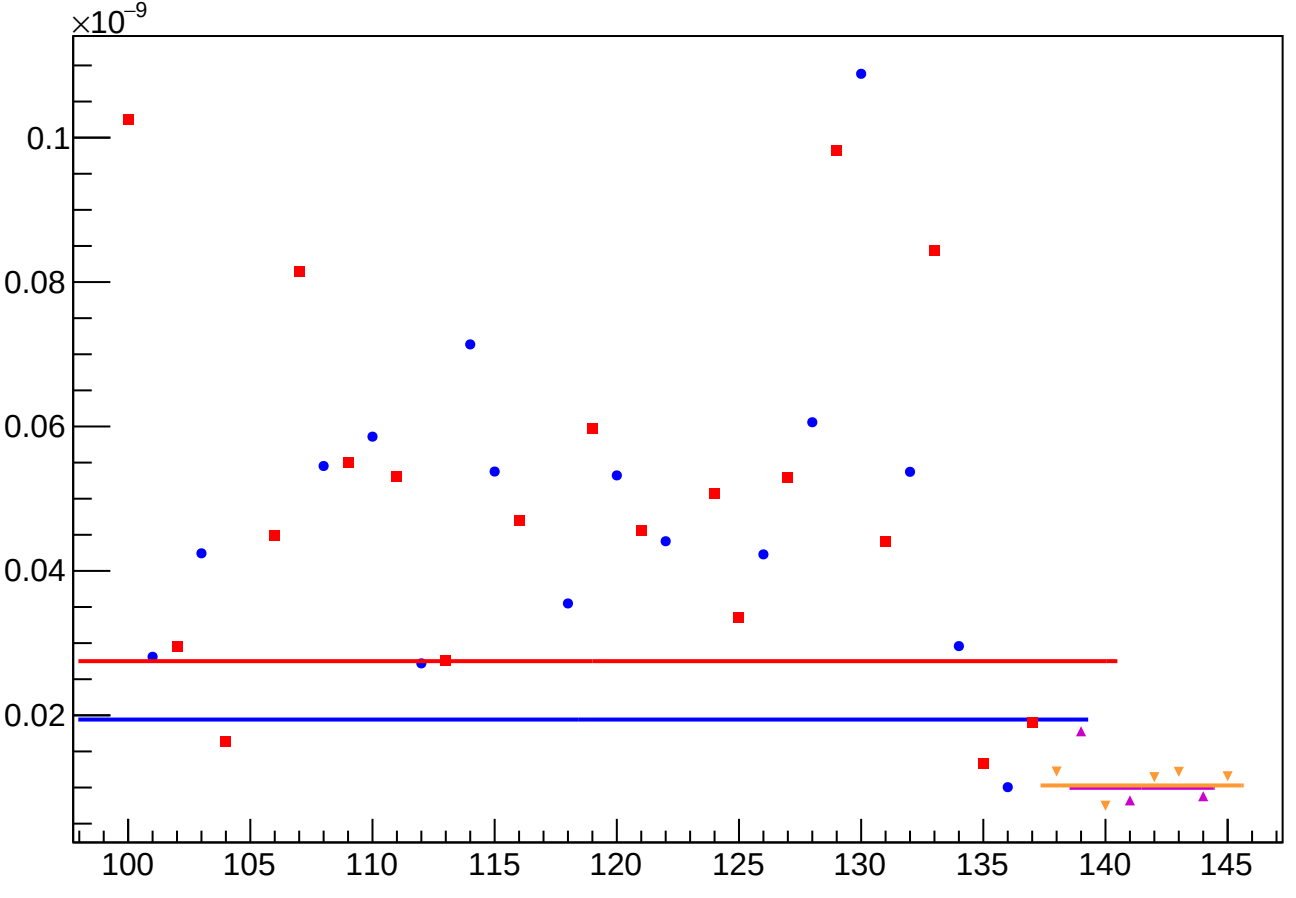
Left: 0.000+/-0.000 $\chi^2$/NDF: 2.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 47.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:25.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 49.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2274412.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:122107.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1650144.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:231613.1/2

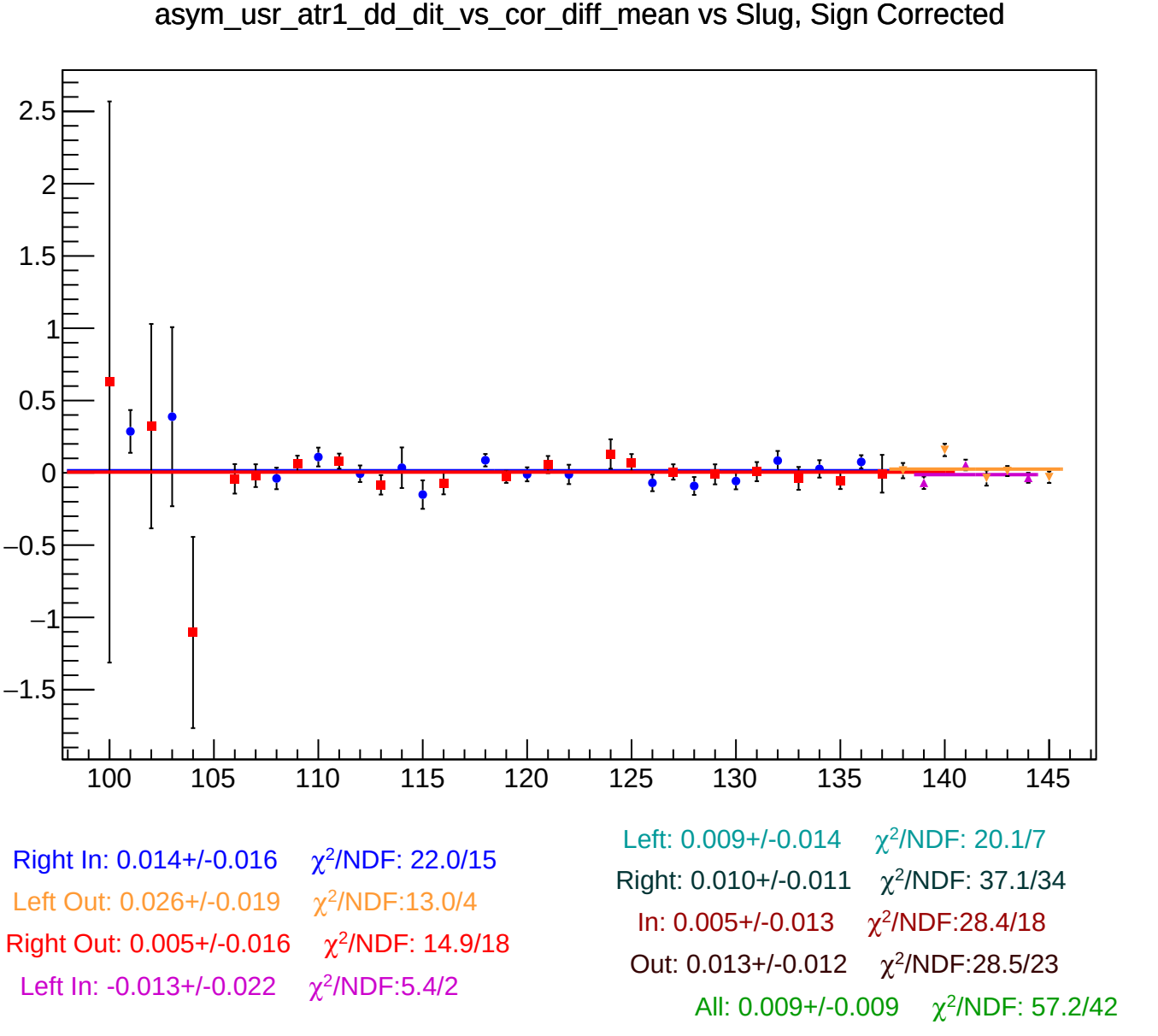
Left: 0.000+/-0.000 $\chi^2$/NDF: 354958.1/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4153449.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:3093190.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3120292.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6214153.7/42


asym_usr_atr1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected
2.5
2
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−0.5
−1
−1.5
100
105
110
115
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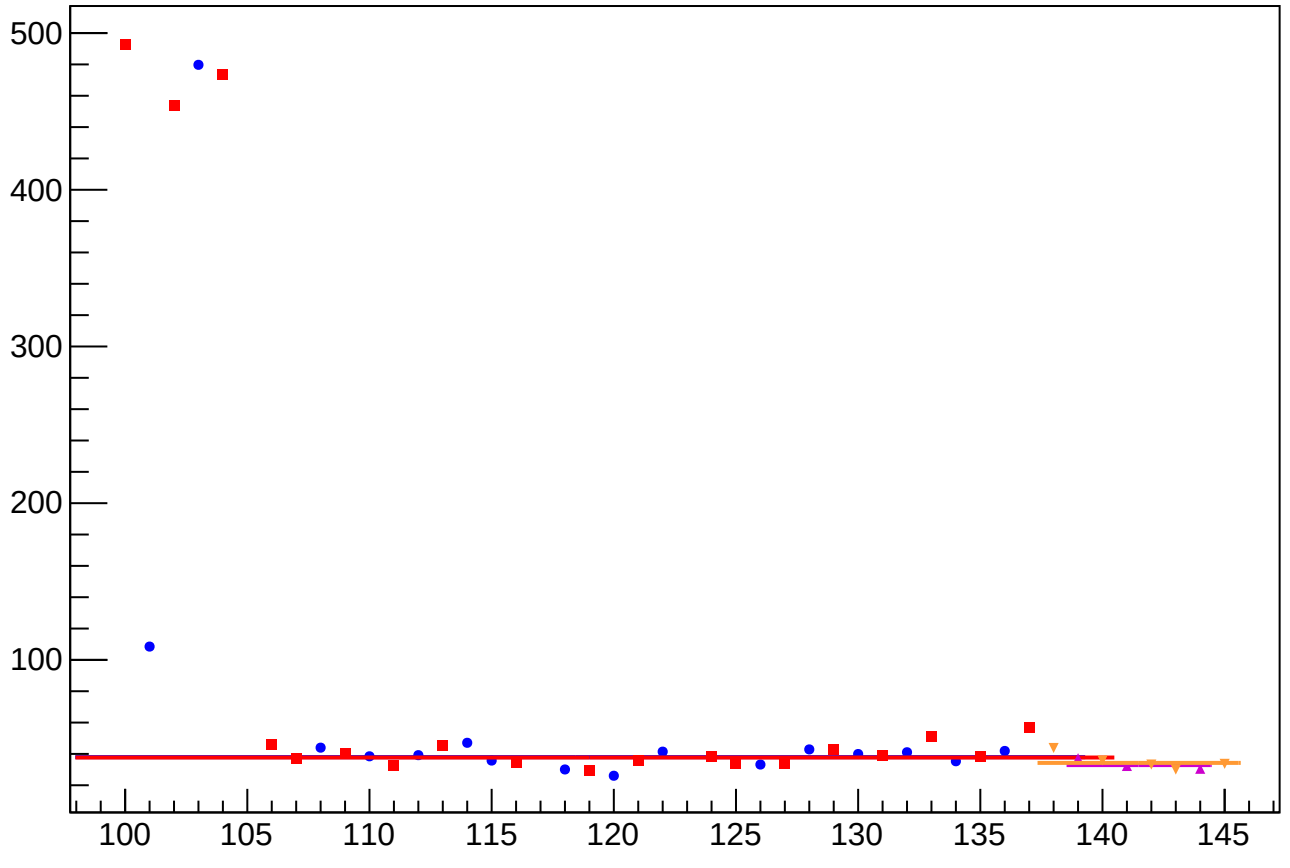
125
130
135
140
145
Right In: 0.014+/-0.016 χ²/NDF: 22.0/15
Left Out: 0.026+/-0.019 χ²/NDF:13.0/4
Right Out: 0.005+/-0.016 χ²/NDF: 14.9/18
Left In: -0.013+/-0.022 χ²/NDF:5.4/2
Left: 0.009+/-0.014 χ²/NDF: 20.1/7
Right: 0.010+/-0.011 χ²/NDF: 37.1/34
In: 0.005+/-0.013 χ²/NDF:28.4/18
Out: 0.013+/-0.012 χ²/NDF:28.5/23
All: 0.009+/-0.009 χ²/NDF: 57.2/42




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739669.4/15

Left Out: 34.268+/-0.014 $\chi^2$/NDF:98532.1/4

Right Out: 37.696+/-0.011 $\chi^2$/NDF: 1944881.8/18

Left In: 32.869+/-0.015 $\chi^2$/NDF:30442.1/2

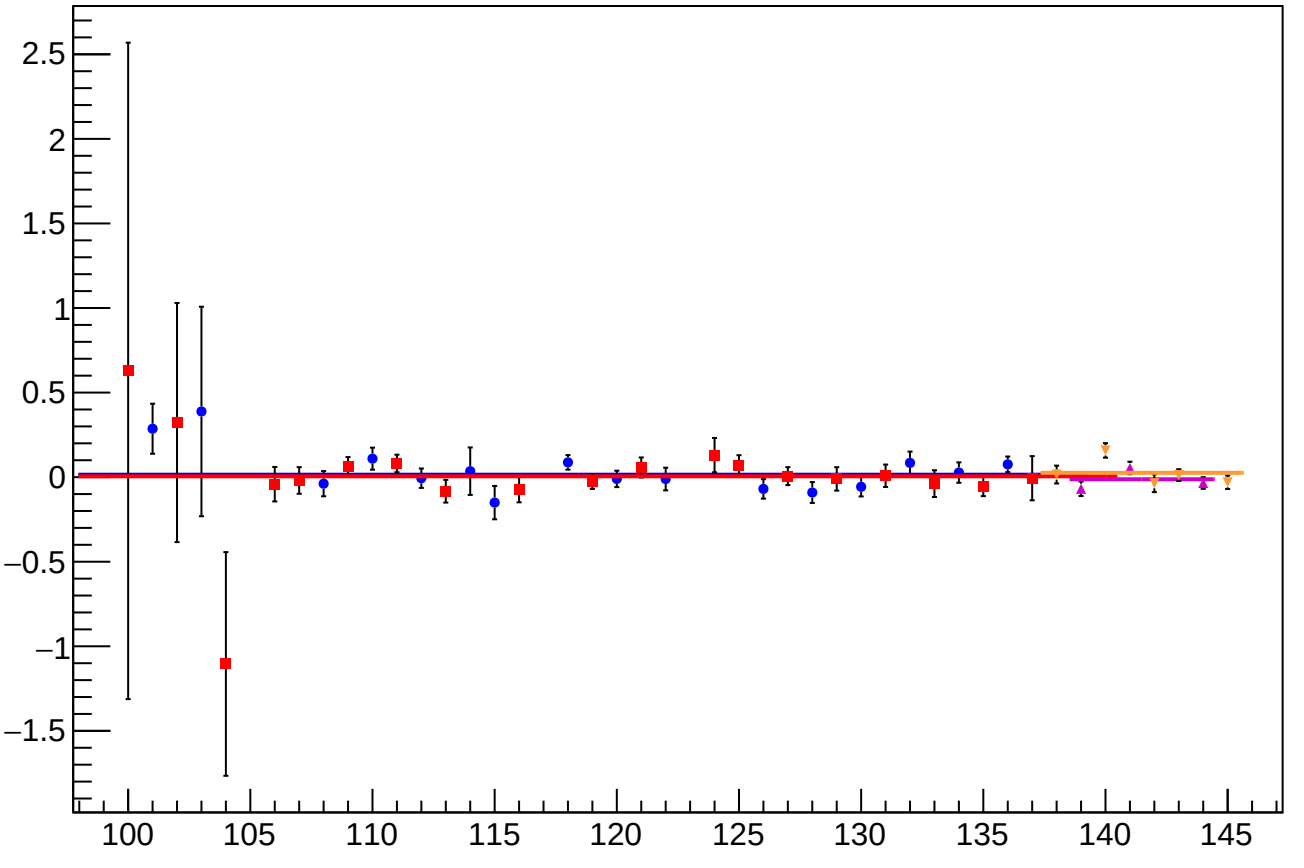
Left: 33.655+/-0.010 $\chi^2$/NDF: 133610.9/7

Right: 37.820+/-0.008 $\chi^2$/NDF: 3684788.8/34

In: 36.174+/-0.009 $\chi^2$/NDF:1840800.5/18

Out: 36.290+/-0.009 $\chi^2$/NDF:2080830.7/23

All: 36.234+/-0.006 $\chi^2$/NDF: 3921715.7/42




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.026+/-0.019 $\chi^2$/NDF:13.0/4

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.013+/-0.022 $\chi^2$/NDF:5.4/2

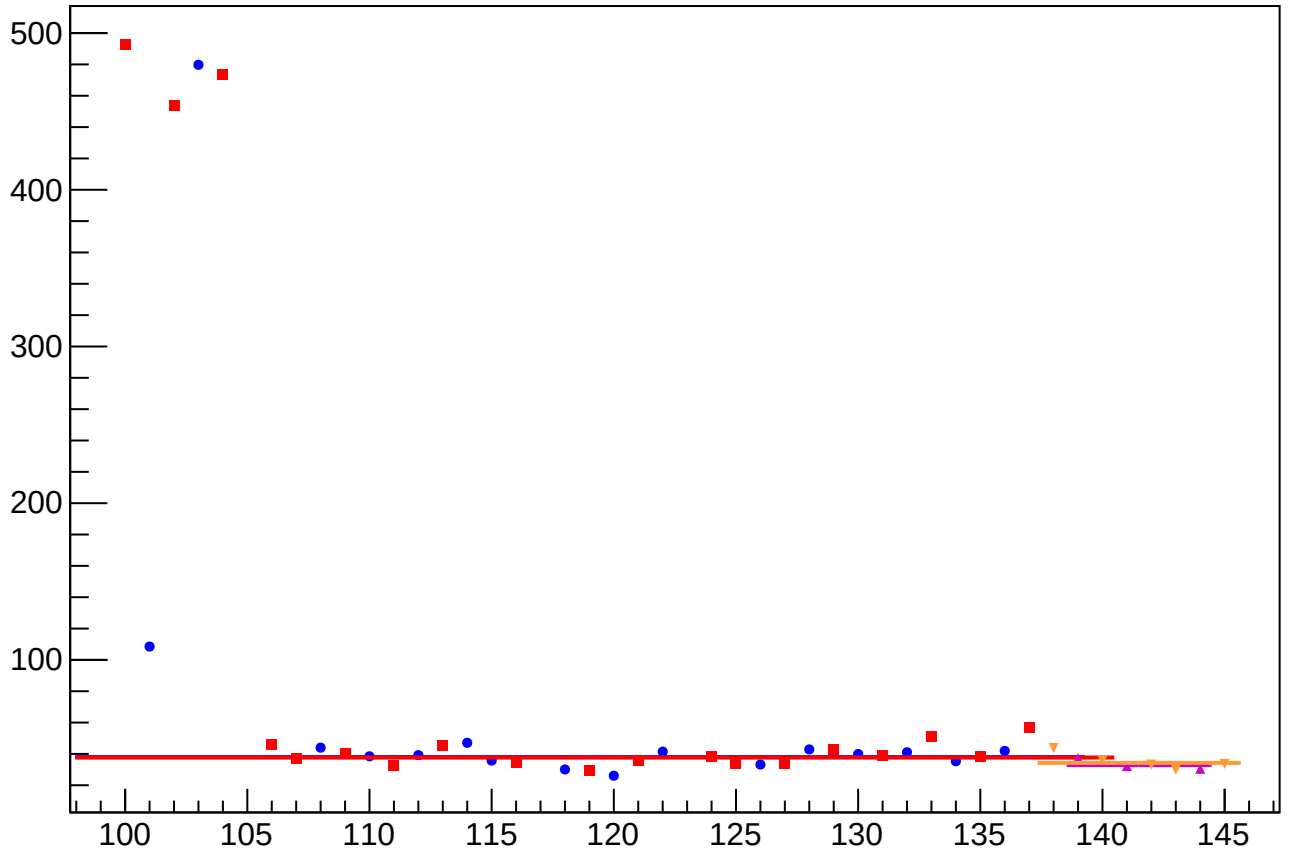
Left: 0.009+/-0.014 $\chi^2$/NDF: 20.1/7

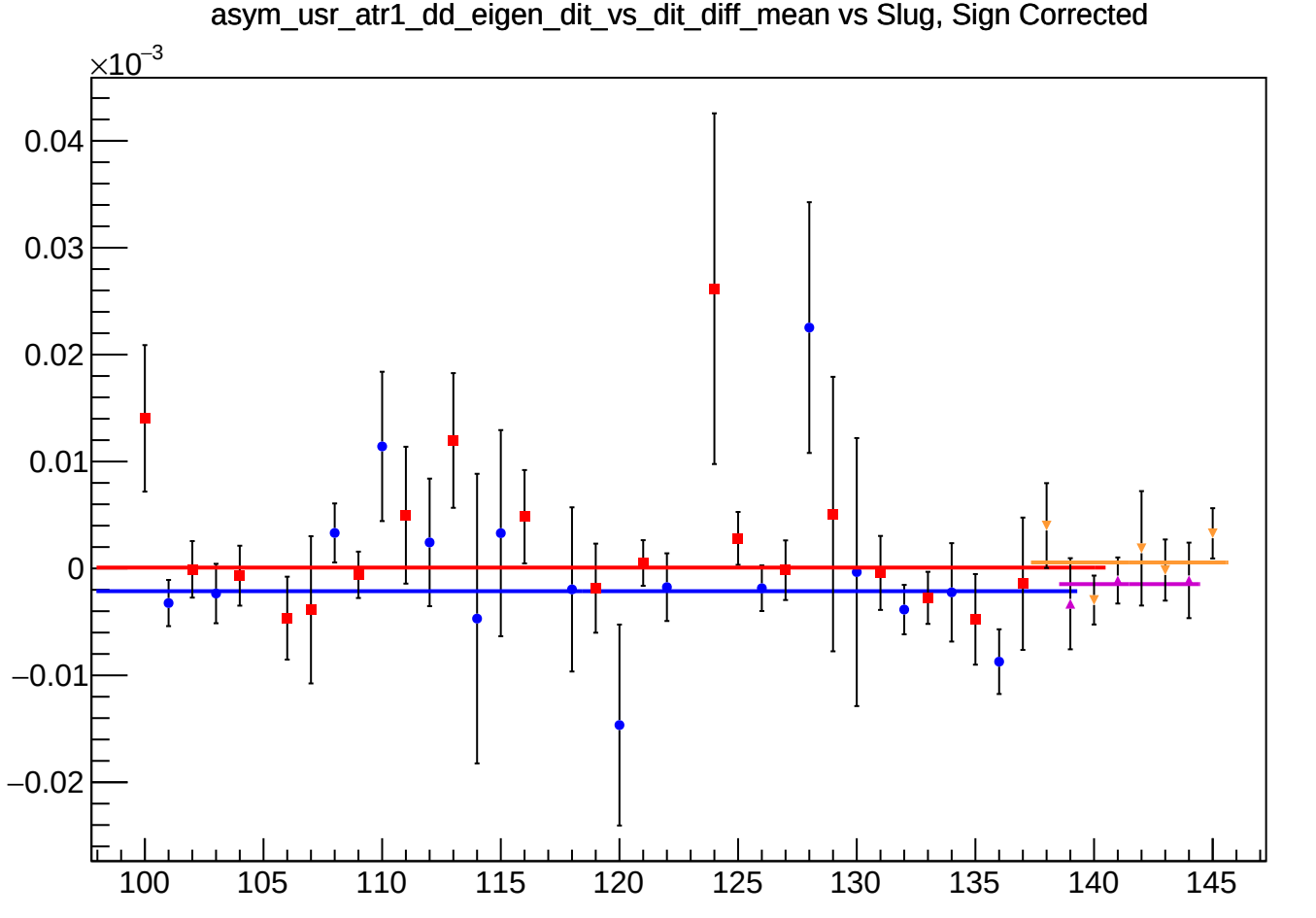
Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

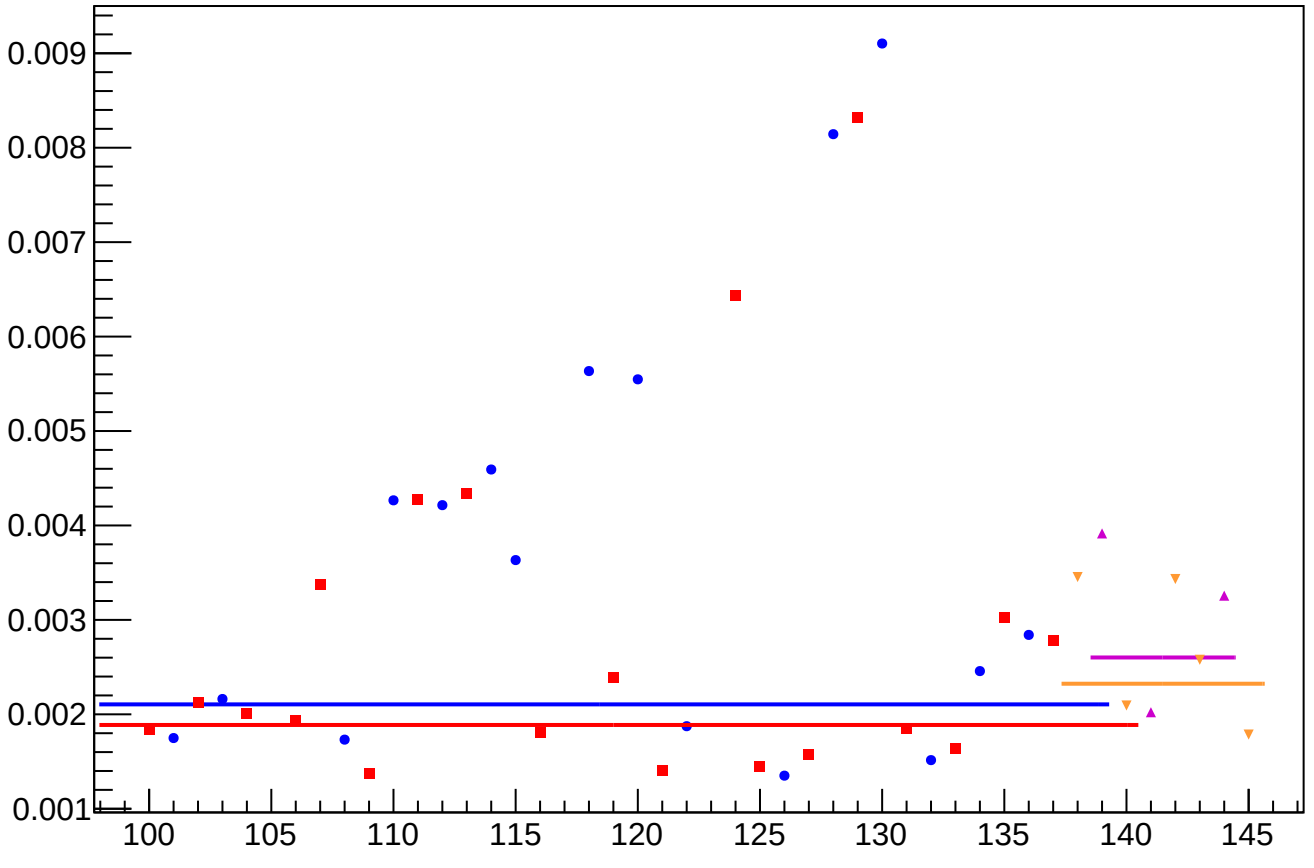
In: 0.005+/-0.013 $\chi^2$/NDF:28.4/18

Out: 0.013+/-0.012 $\chi^2$/NDF:28.5/23

All: 0.009+/-0.009 $\chi^2$/NDF: 57.2/42


asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
500
400
300
200
100
100
105
110
115
120
125
130
135
140
145
Right In: 37.942+/-0.011 χ²/NDF: 1739669.4/15
Left Out: 34.268+/-0.014 χ²/NDF:98532.1/4
Right Out: 37.696+/-0.011 χ²/NDF: 1944881.8/18
Left In: 32.869+/-0.015 χ²/NDF:30442.1/2
Left: 33.655+/-0.010 χ²/NDF: 133610.9/7
Right: 37.820+/-0.008 χ²/NDF: 3684788.8/34
In: 36.174+/-0.009 χ²/NDF:1840800.5/18
Out: 36.290+/-0.009 χ²/NDF:2080830.7/23
All: 36.234+/-0.006 χ²/NDF: 3921715.7/42


asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.04
0.03
0.02
0.01
0
−0.01
−0.02
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 20.4/15
Left Out: 0.000+/-0.000 χ²/NDF:4.6/4
Right Out: 0.000+/-0.000 χ²/NDF: 18.4/18
Left In: -0.000+/-0.000 χ²/NDF:0.2/2
Left: -0.000+/-0.000 χ²/NDF: 5.7/7
Right: -0.000+/-0.000 χ²/NDF: 42.2/34
In: -0.000+/-0.000 χ²/NDF:20.8/18
Out: 0.000+/-0.000 χ²/NDF:23.1/23
All: -0.000+/-0.000 χ²/NDF: 48.3/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3017568.9/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:388844.7/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 1892000.0/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:403566.5/2

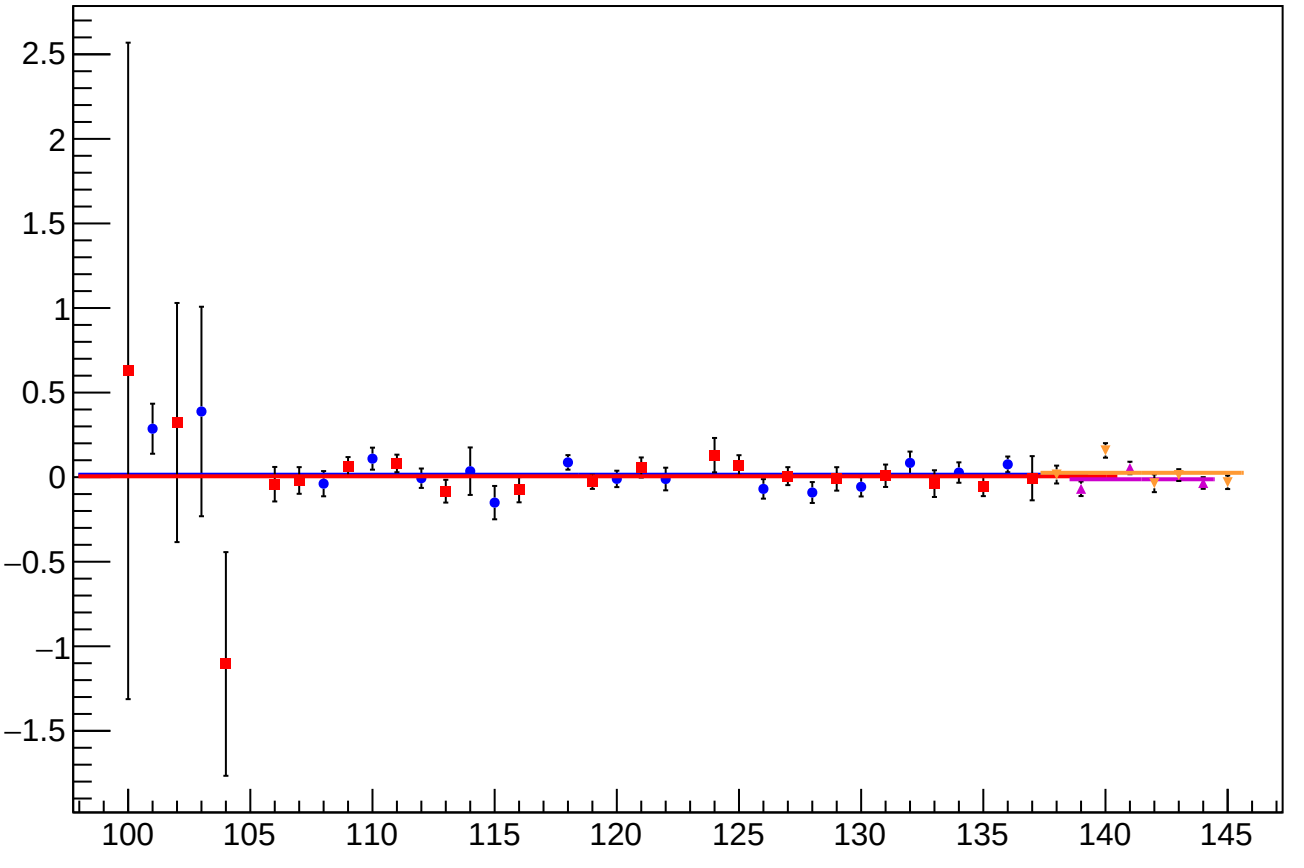
Left: 0.002+/-0.000 $\chi^2$/NDF: 826448.1/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 4976274.3/34

In: 0.002+/-0.000 $\chi^2$/NDF:3556083.6/18

Out: 0.002+/-0.000 $\chi^2$/NDF:2446004.2/23

All: 0.002+/-0.000 $\chi^2$/NDF: 6083208.7/42




Right In: 0.014+/-0.016 $\chi^2$/NDF: 22.0/15

Left Out: 0.026+/-0.019 $\chi^2$/NDF:13.0/4

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.013+/-0.022 $\chi^2$/NDF:5.4/2

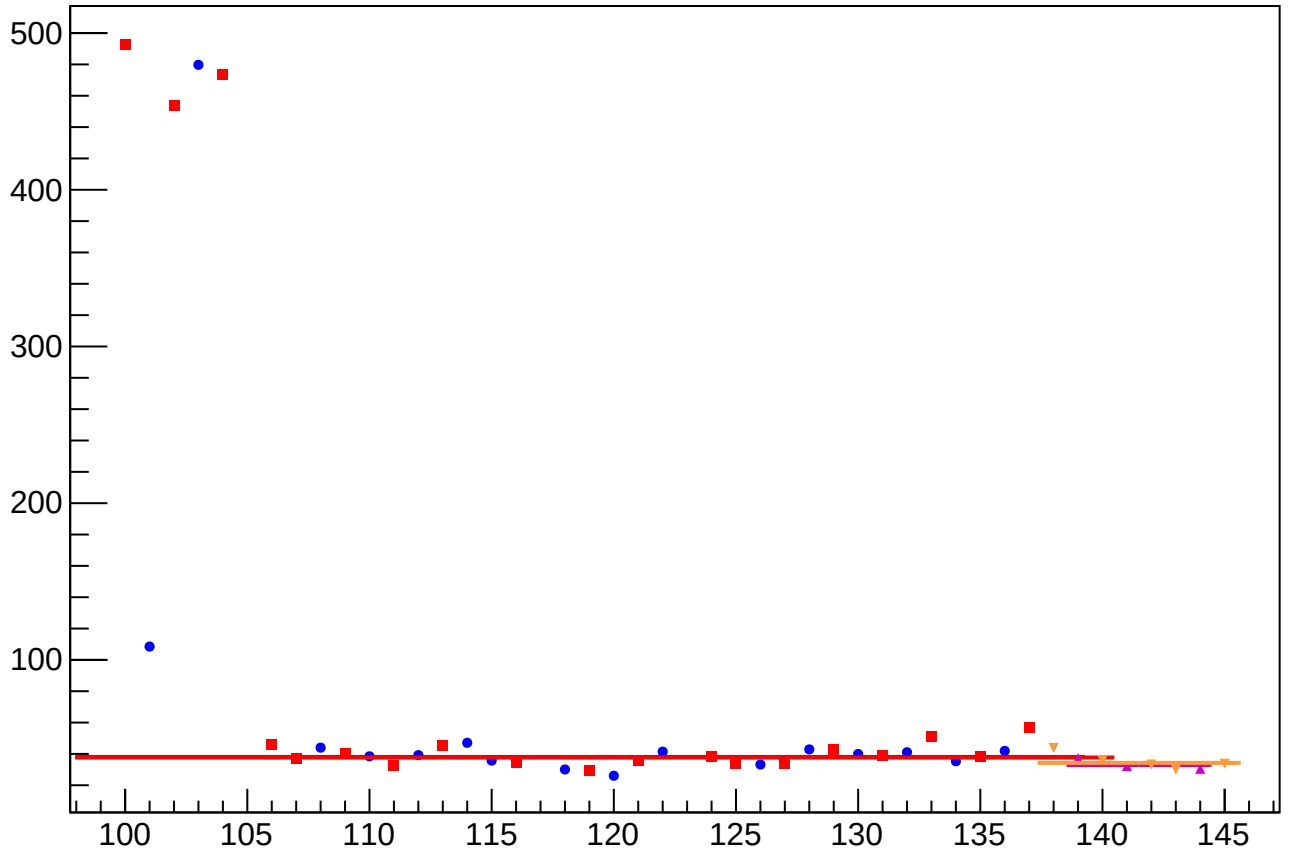
Left: 0.009+/-0.014 $\chi^2$/NDF: 20.1/7

Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: 0.005+/-0.013 $\chi^2$/NDF:28.4/18

Out: 0.013+/-0.012 $\chi^2$/NDF:28.5/23

All: 0.009+/-0.009 $\chi^2$/NDF: 57.2/42




Right In: 37.942+/-0.011 $\chi^2$/NDF: 1739681.1/15

Left Out: 34.268+/-0.014 $\chi^2$/NDF:98556.9/4

Right Out: 37.695+/-0.011 $\chi^2$/NDF: 1944959.2/18

Left In: 32.868+/-0.015 $\chi^2$/NDF:30440.6/2

Left: 33.655+/-0.010 $\chi^2$/NDF: 133637.1/7

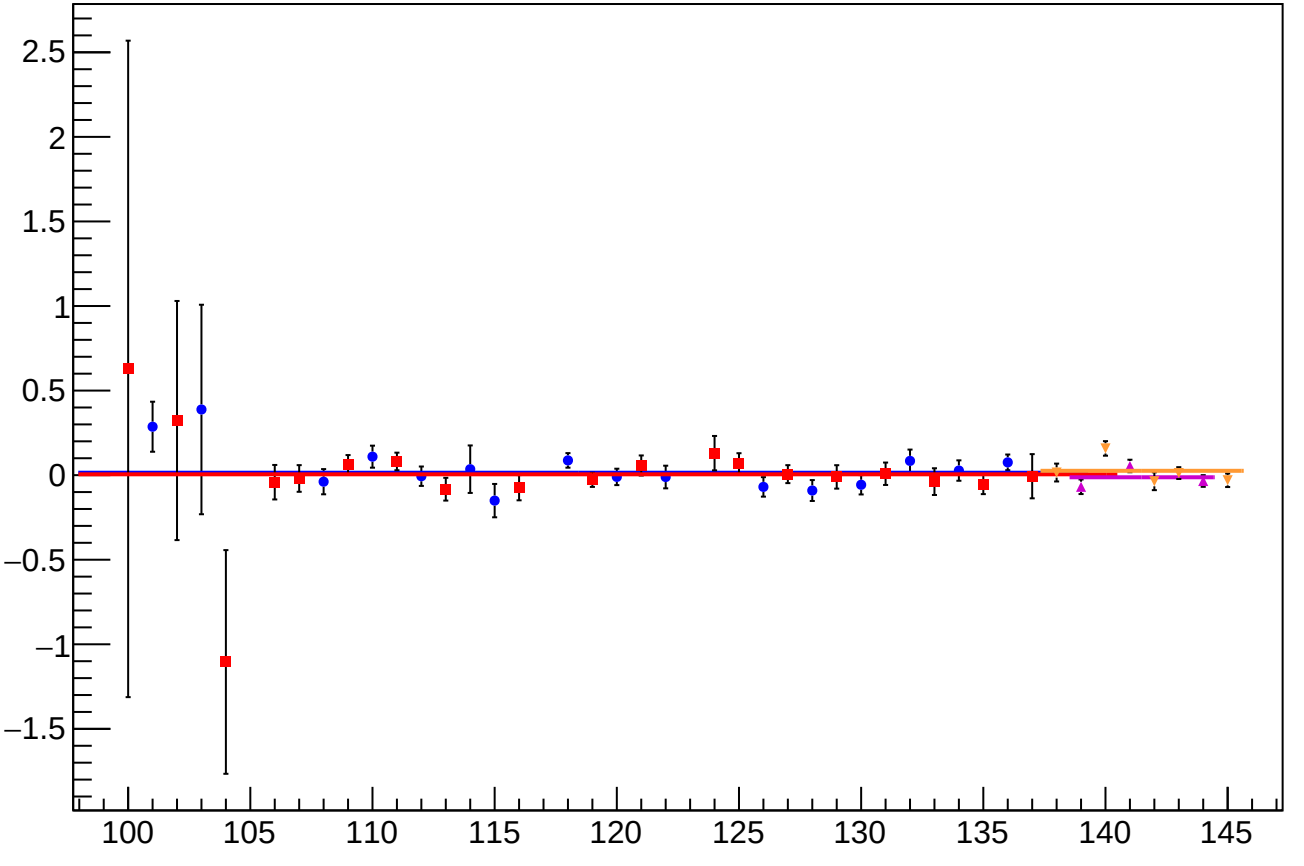
Right: 37.819+/-0.008 $\chi^2$/NDF: 3684879.3/34

In: 36.174+/-0.009 $\chi^2$/NDF:1840812.3/18

Out: 36.289+/-0.009 $\chi^2$/NDF:2080909.2/23

All: 36.234+/-0.006 $\chi^2$/NDF: 3921805.7/42

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: 0.026+/-0.019 $\chi^2$/NDF:13.0/4

Right Out: 0.005+/-0.016 $\chi^2$/NDF: 14.9/18

Left In: -0.013+/-0.022 $\chi^2$/NDF:5.4/2

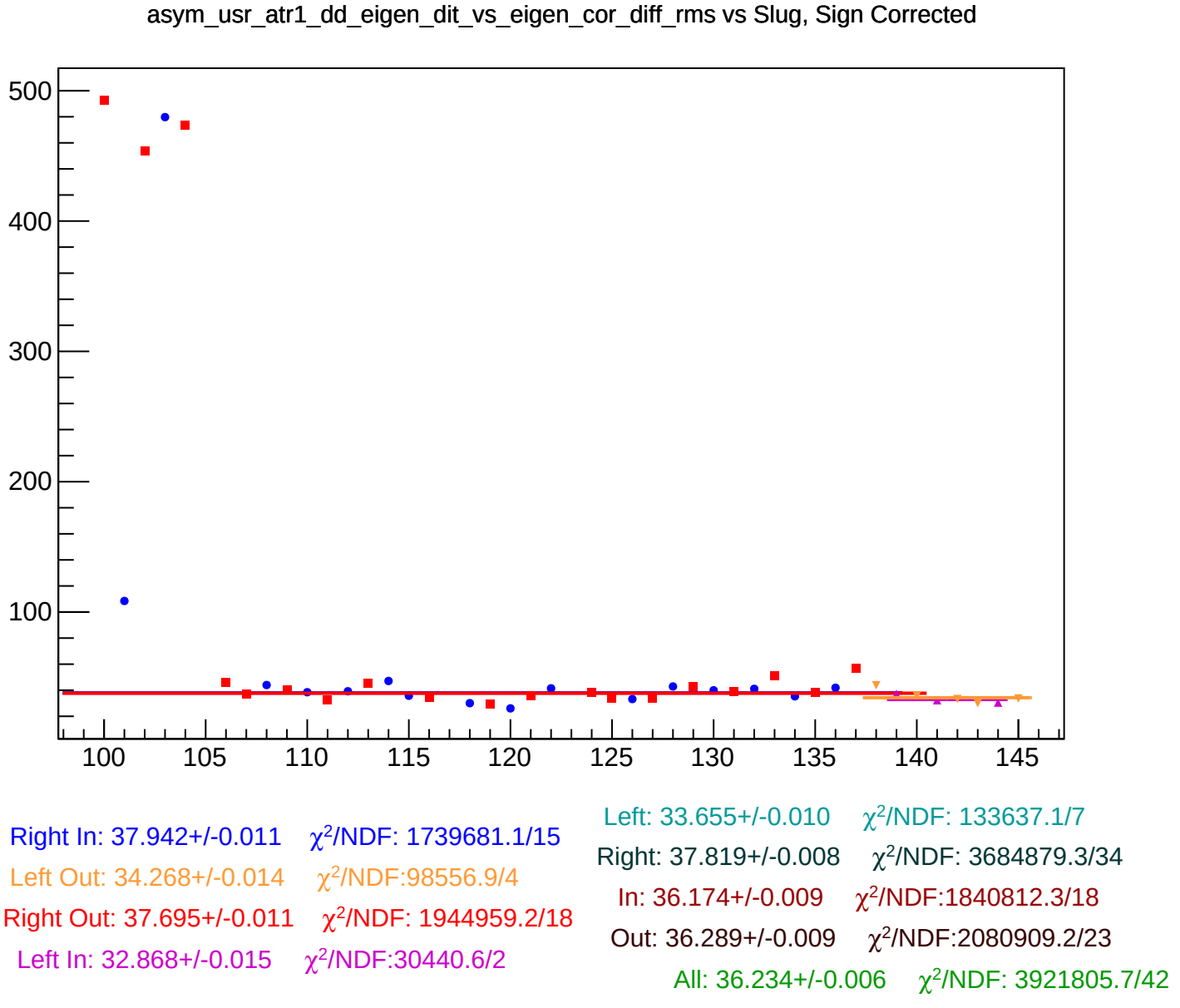
Left: 0.009+/-0.014 $\chi^2$/NDF: 20.1/7

Right: 0.010+/-0.011 $\chi^2$/NDF: 37.1/34

In: 0.005+/-0.013 $\chi^2$/NDF:28.4/18

Out: 0.013+/-0.012 $\chi^2$/NDF:28.5/23

All: 0.009+/-0.009 $\chi^2$/NDF: 57.2/42


asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
500
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100
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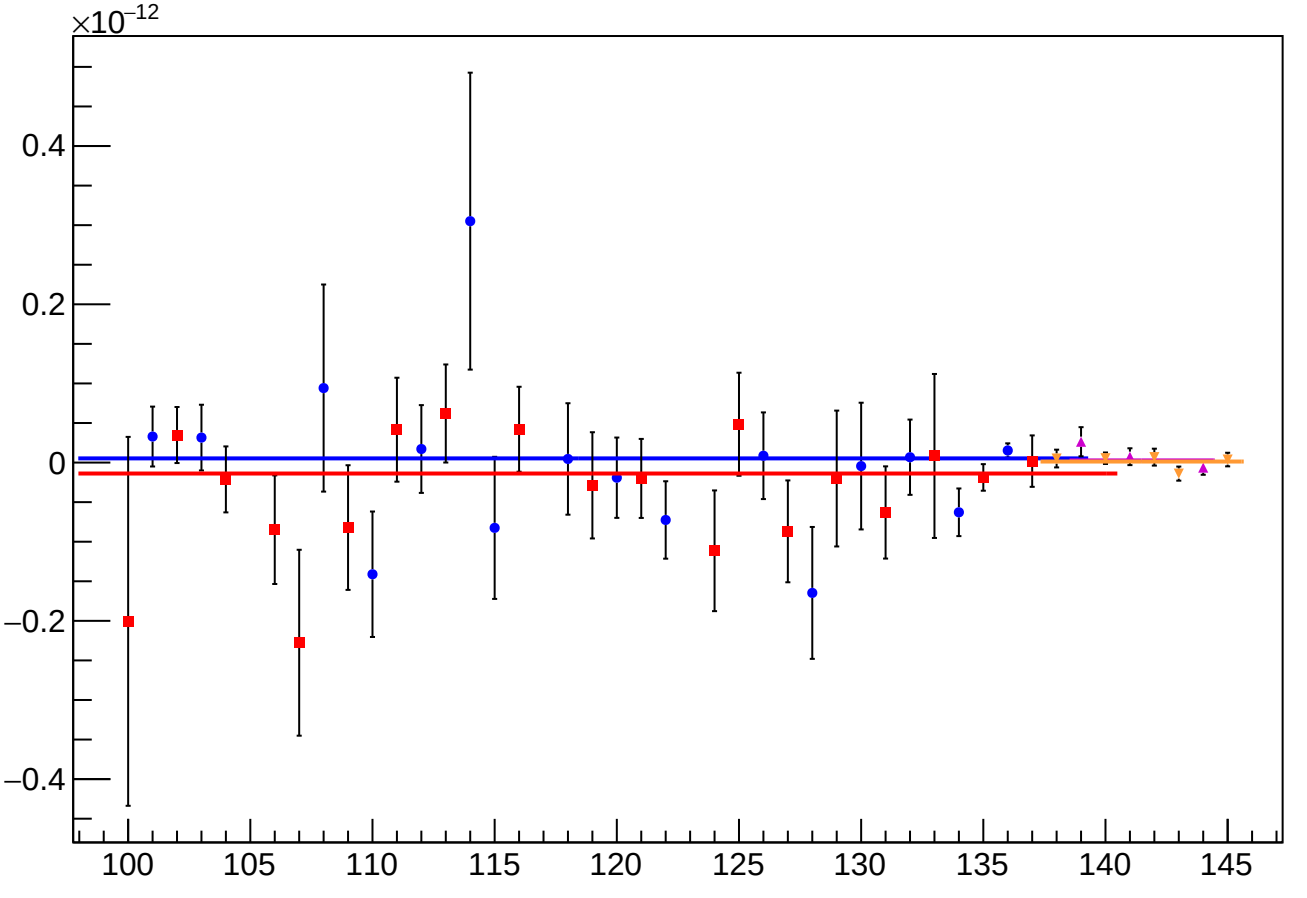
110
115
120
125
130
135
140
145
Right In: 37.942+/-0.011 χ²/NDF: 1739681.1/15
Left Out: 34.268+/-0.014 χ²/NDF:98556.9/4
Right Out: 37.695+/-0.011 χ²/NDF: 1944959.2/18
Left In: 32.868+/-0.015 χ²/NDF:30440.6/2
Left: 33.655+/-0.010 χ²/NDF: 133637.1/7
Right: 37.819+/-0.008 χ²/NDF: 3684879.3/34
In: 36.174+/-0.009 χ²/NDF:1840812.3/18
Out: 36.289+/-0.009 χ²/NDF:2080909.2/23
All: 36.234+/-0.006 χ²/NDF: 3921805.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.7/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.9/2

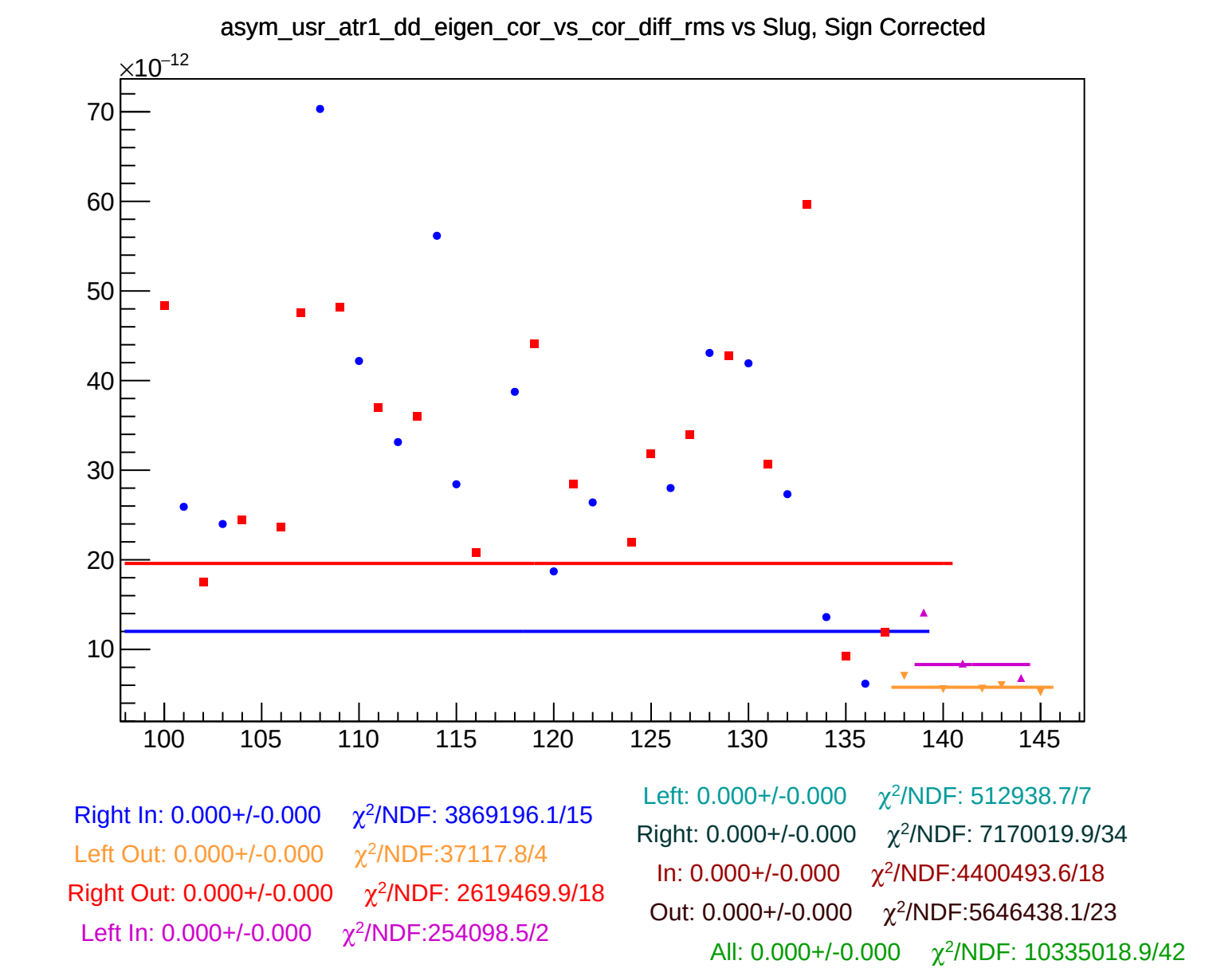
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.6/7

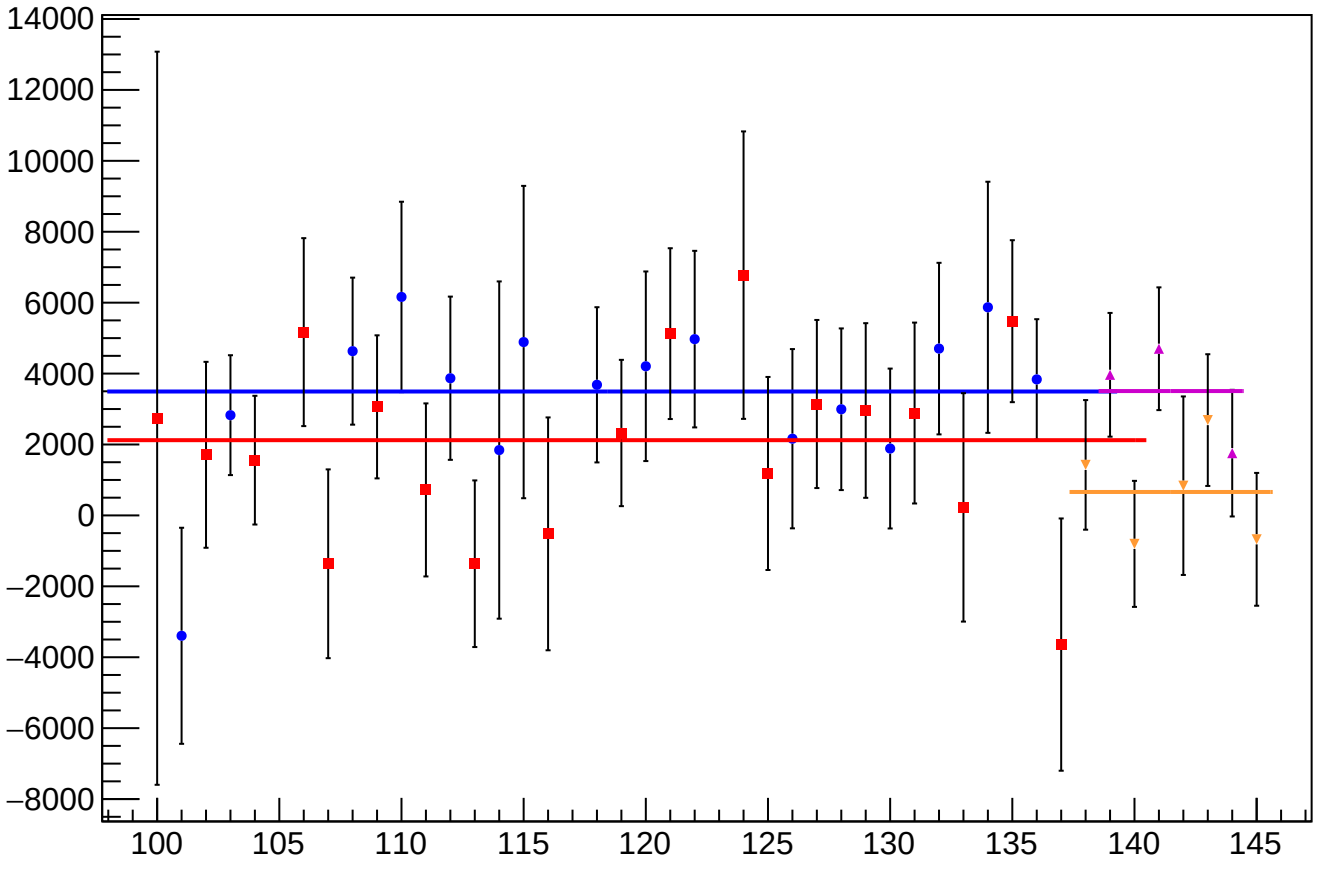
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:21.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 46.6/42


asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 3869196.1/15
Left Out: 0.000+/-0.000 χ²/NDF:37117.8/4
Right Out: 0.000+/-0.000 χ²/NDF: 2619469.9/18
Left In: 0.000+/-0.000 χ²/NDF:254098.5/2
Left: 0.000+/-0.000 χ²/NDF: 512938.7/7
Right: 0.000+/-0.000 χ²/NDF: 7170019.9/34
In: 0.000+/-0.000 χ²/NDF:4400493.6/18
Out: 0.000+/-0.000 χ²/NDF:5646438.1/23
All: 0.000+/-0.000 χ²/NDF: 10335018.9/42




Right In: 3494.380+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 661.066+/-861.104 $\chi^2$/NDF:2.6/4

Right Out: 2121.717+/-587.617 $\chi^2$/NDF: 15.1/18

Left In: 3506.929+/-1012.348 $\chi^2$/NDF:1.5/2

Left: 1855.737+/-655.914 $\chi^2$/NDF: 8.6/7

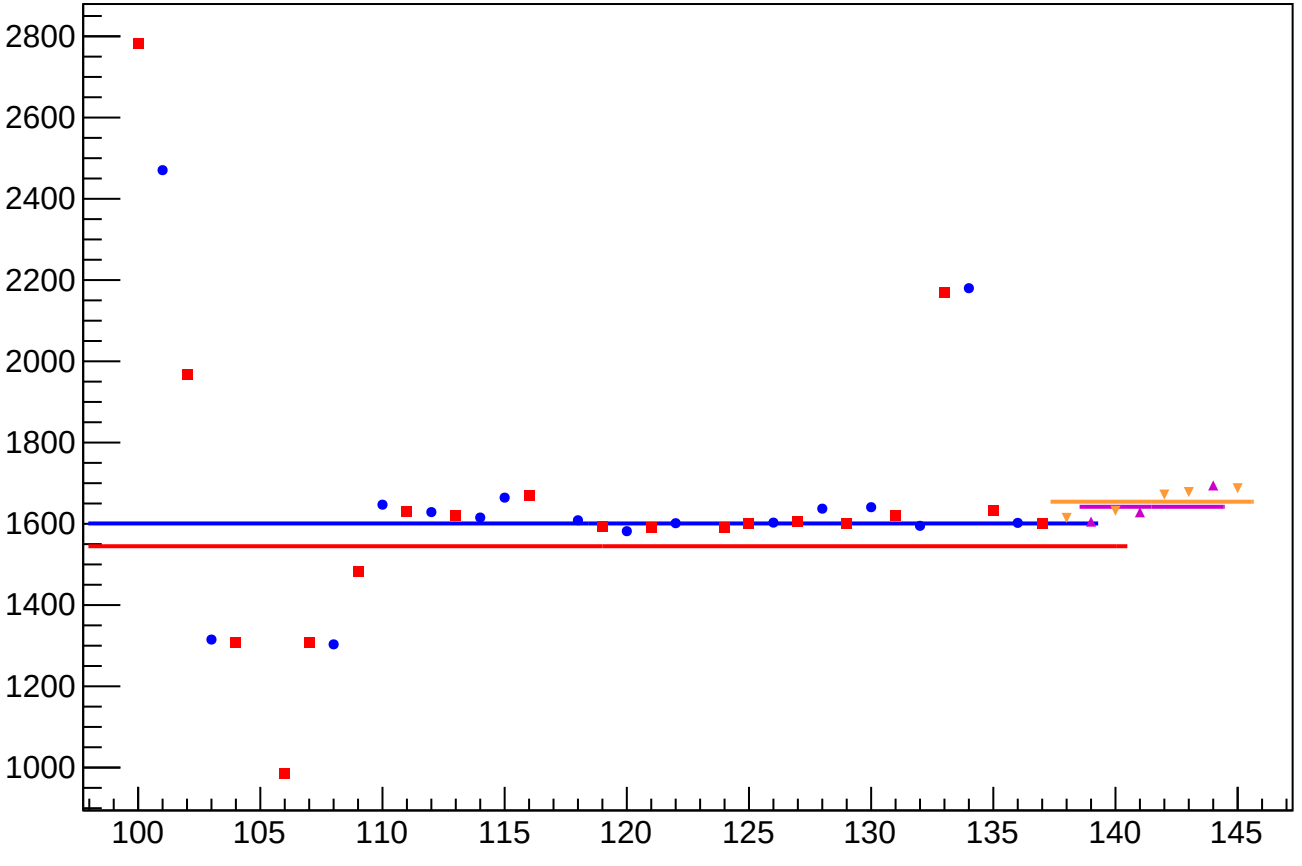
Right: 2792.384+/-420.223 $\chi^2$/NDF: 26.6/34

In: 3497.652+/-516.909 $\chi^2$/NDF:10.3/18

Out: 1657.642+/-485.374 $\chi^2$/NDF:19.6/23

All: 2519.812+/-353.834 $\chi^2$/NDF: 36.7/42

# reg_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317414.0/15

Left Out: 1654.469+/-0.609 $\chi^2$/NDF:2313.4/4

Right Out: 1544.809+/-0.409 $\chi^2$/NDF: 376127.4/18

Left In: 1641.941+/-0.716 $\chi^2$/NDF:2727.3/2

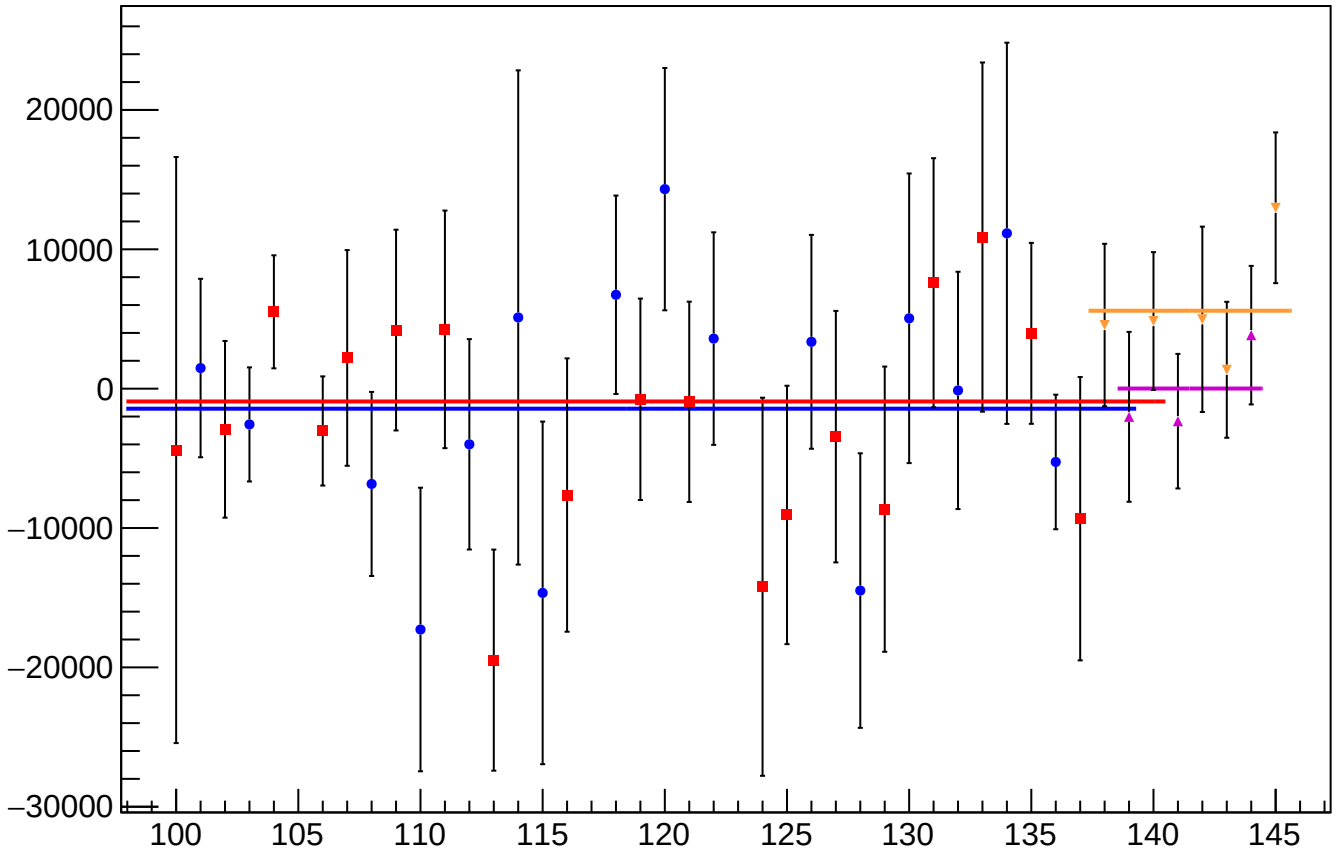
Left: 1649.210+/-0.464 $\chi^2$/NDF: 5218.4/7

Right: 1571.734+/-0.295 $\chi^2$/NDF: 702584.8/34

In: 1611.585+/-0.366 $\chi^2$/NDF:322573.7/18

Out: 1578.856+/-0.339 $\chi^2$/NDF:400805.8/23

All: 1594.004+/-0.249 $\chi^2$/NDF: 727686.7/42




Right In: -1437.118+/-1848.287 $\chi^2$/NDF: 13.9/15

Left Out: 5592.705+/-2431.208 $\chi^2$/NDF:2.7/4

Right Out: -918.485+/-1669.278 $\chi^2$/NDF: 15.3/18

Left In: 8.987+/-3011.387 $\chi^2$/NDF:0.9/2

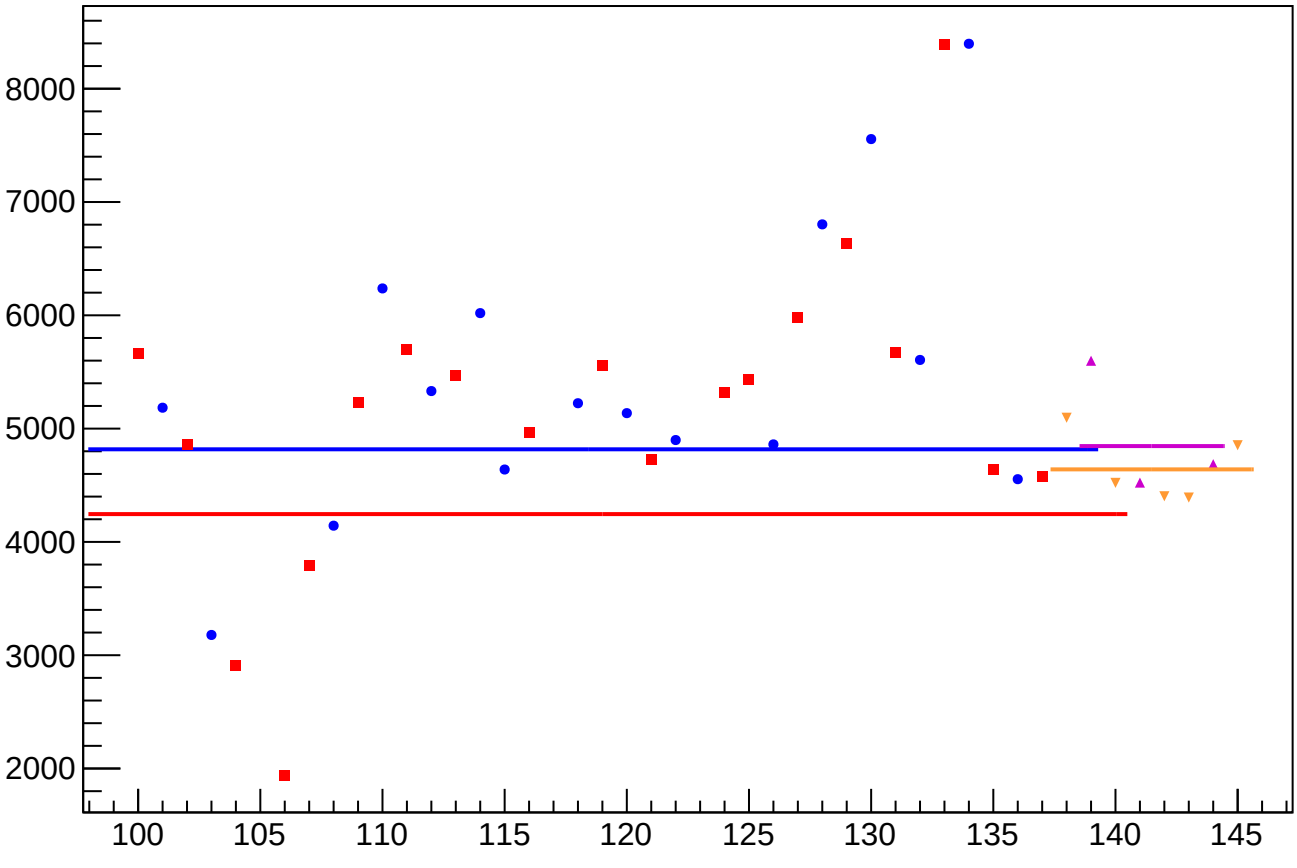
Left: 3389.381+/-1891.664 $\chi^2$/NDF: 5.7/7

Right: -1151.477+/-1238.823 $\chi^2$/NDF: 29.2/34

In: -1041.420+/-1575.246 $\chi^2$/NDF:15.0/18

Out: 1167.614+/-1376.130 $\chi^2$/NDF:22.9/23

All: 211.455+/-1036.364 $\chi^2$/NDF: 39.0/42




Right In: 4817.344+/-1.307 $\chi^2$/NDF: 795431.1/15

Left Out: 4640.210+/-1.719 $\chi^2$/NDF:24237.7/4

Right Out: 4245.533+/-1.180 $\chi^2$/NDF: 1683159.2/18

Left In: 4845.830+/-2.129 $\chi^2$/NDF:41502.4/2

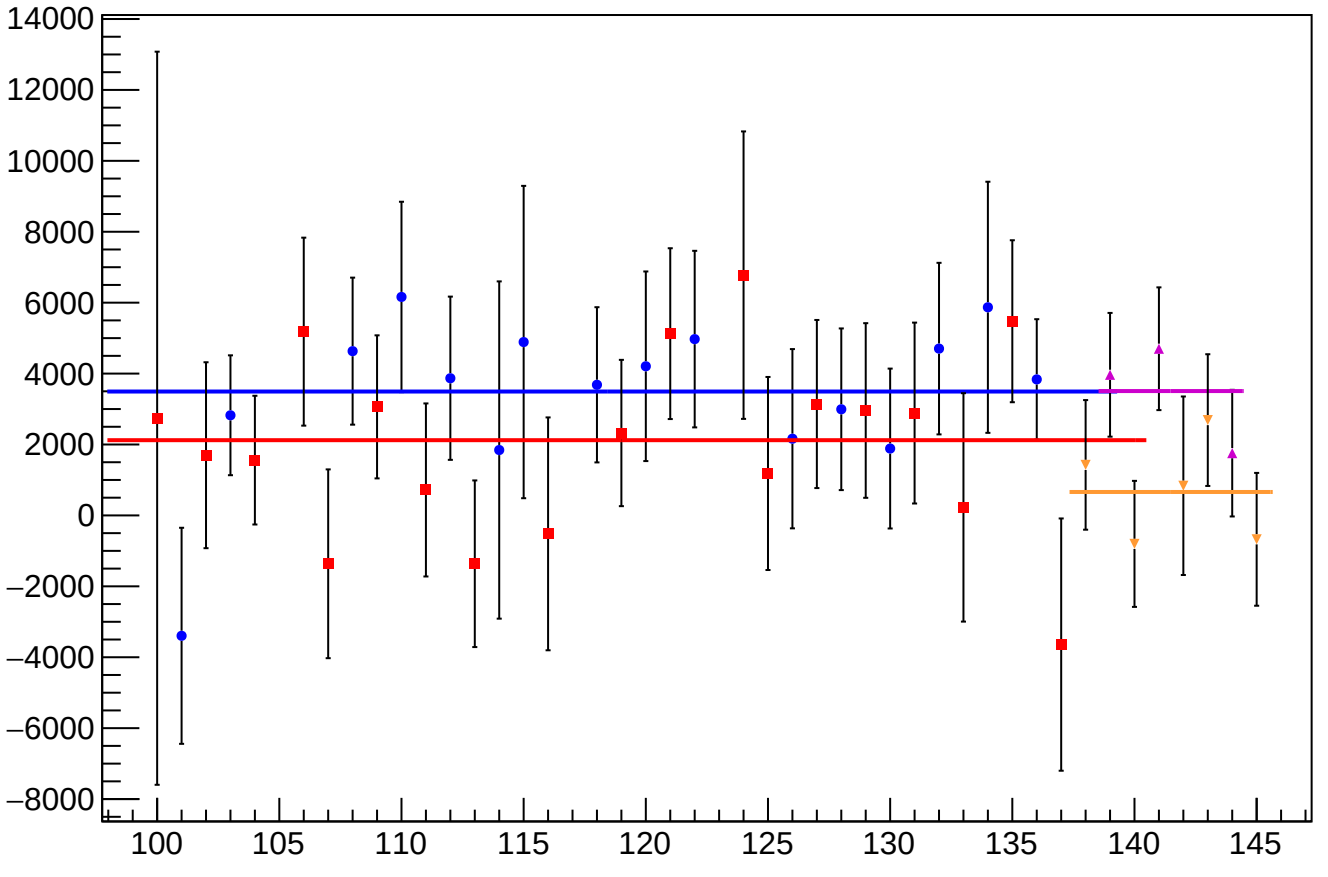
Left: 4721.347+/-1.338 $\chi^2$/NDF: 71385.3/7

Right: 4502.414+/-0.876 $\chi^2$/NDF: 2584018.5/34

In: 4825.139+/-1.114 $\chi^2$/NDF:837063.5/18

Out: 4371.982+/-0.973 $\chi^2$/NDF:1743217.4/23

All: 4568.127+/-0.733 $\chi^2$/NDF: 2674152.5/42




Right In: 3494.046+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 661.031+/-861.104 $\chi^2$/NDF:2.6/4

Right Out: 2121.708+/-587.619 $\chi^2$/NDF: 15.1/18

Left In: 3507.146+/-1012.348 $\chi^2$/NDF:1.5/2

Left: 1855.808+/-655.914 $\chi^2$/NDF: 8.6/7

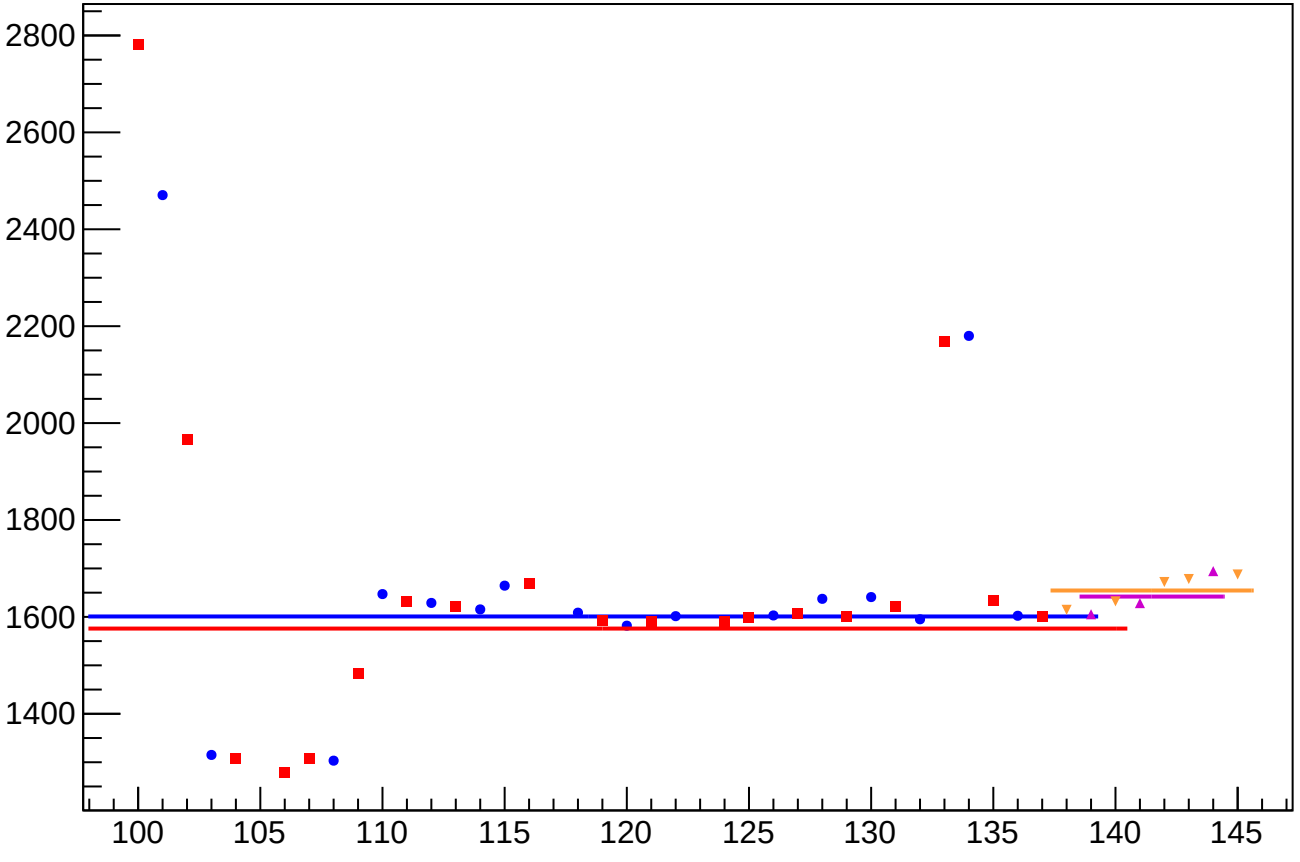
Right: 2792.219+/-420.224 $\chi^2$/NDF: 26.6/34

In: 3497.461+/-516.909 $\chi^2$/NDF:10.3/18

Out: 1657.622+/-485.375 $\chi^2$/NDF:19.6/23

All: 2519.715+/-353.835 $\chi^2$/NDF: 36.7/42

# cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317413.1/15

Left Out: 1654.469+/-0.609 $\chi^2$/NDF:2313.4/4

Right Out: 1575.900+/-0.414 $\chi^2$/NDF: 243332.0/18

Left In: 1641.941+/-0.716 $\chi^2$/NDF:2727.3/2

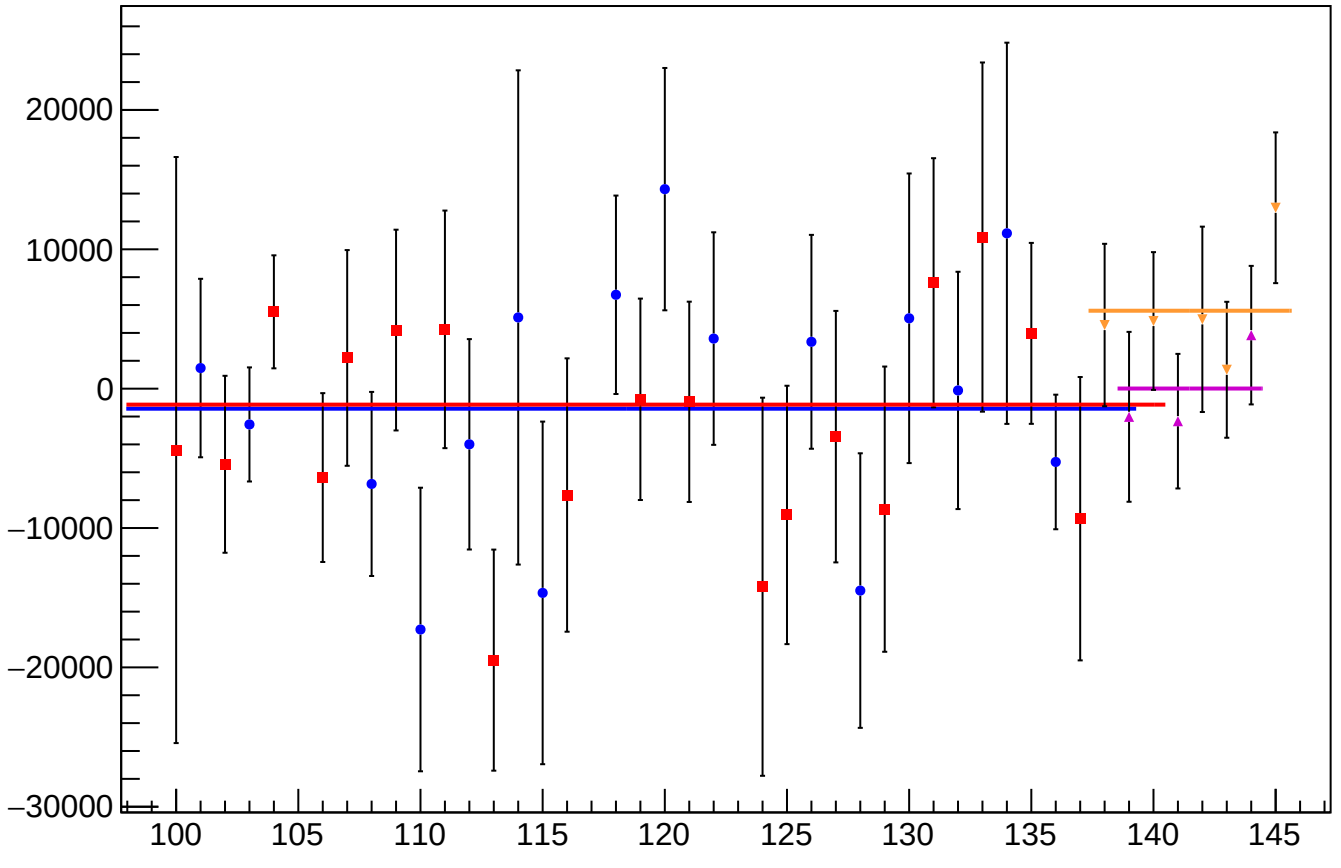
Left: 1649.210+/-0.464 $\chi^2$/NDF: 5218.4/7

Right: 1588.056+/-0.297 $\chi^2$/NDF: 562517.7/34

In: 1611.585+/-0.366 $\chi^2$/NDF:322572.8/18

Out: 1600.729+/-0.342 $\chi^2$/NDF:257033.9/23

All: 1605.801+/-0.250 $\chi^2$/NDF: 580076.7/42




Right In: -1437.362+/-1848.324 $\chi^2$/NDF: 13.9/15

Left Out: 5592.588+/-2431.199 $\chi^2$/NDF:2.7/4

Right Out: -1146.174+/-1765.384 $\chi^2$/NDF: 16.3/18

Left In: 9.109+/-3011.382 $\chi^2$/NDF:0.9/2

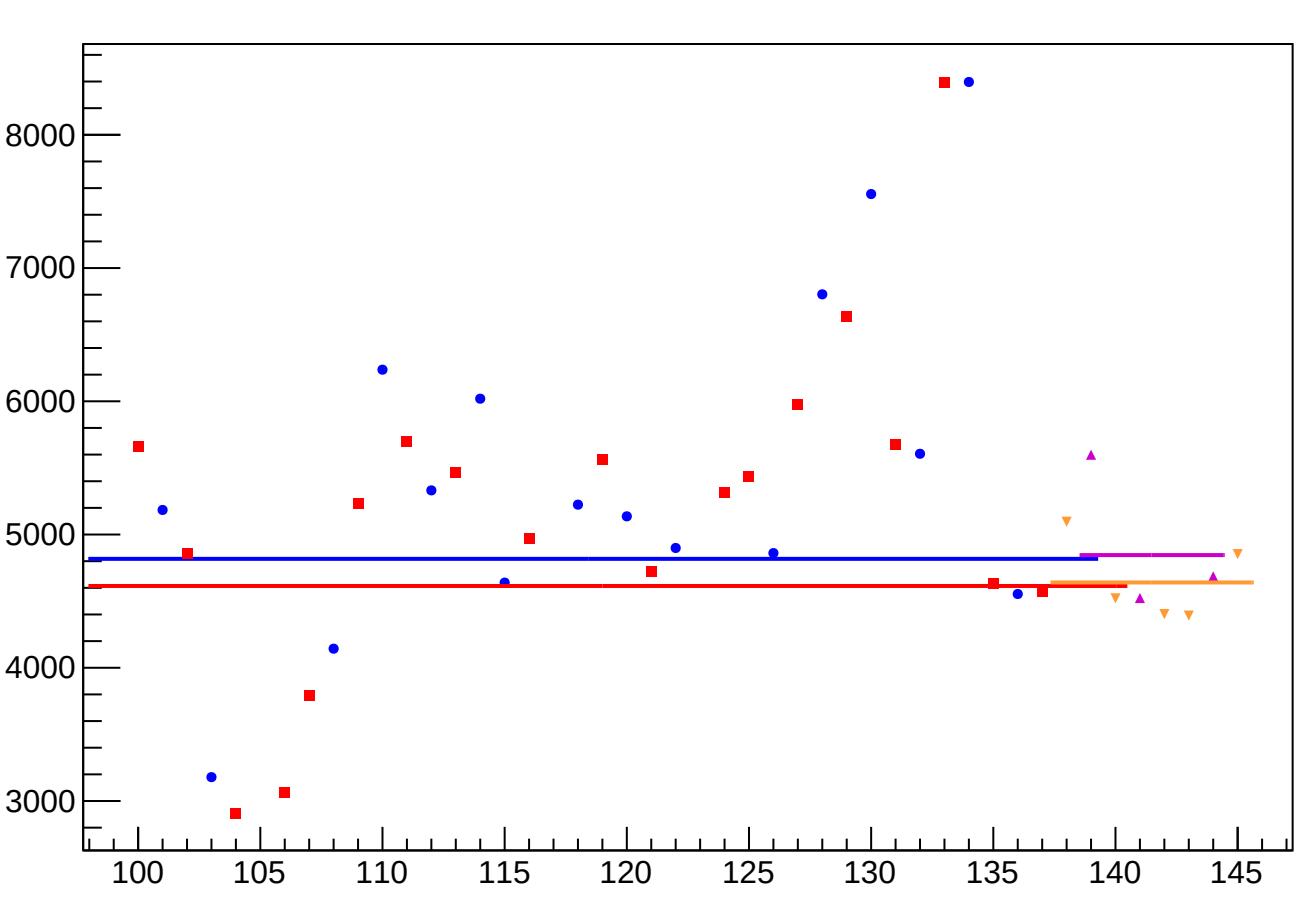
Left: 3389.364+/-1891.659 $\chi^2$/NDF: 5.7/7

Right: -1285.089+/-1276.630 $\chi^2$/NDF: 30.1/34

In: -1041.552+/-1575.268 $\chi^2$/NDF:15.0/18

Out: 1180.310+/-1428.501 $\chi^2$/NDF:24.0/23

All: 177.683+/-1058.195 $\chi^2$/NDF: 40.0/42




Right In: 4817.480+/-1.307 $\chi^2$/NDF: 795233.3/15

Left Out: 4640.191+/-1.719 $\chi^2$/NDF:24239.4/4

Right Out: 4613.851+/-1.248 $\chi^2$/NDF: 977958.2/18

Left In: 4845.822+/-2.129 $\chi^2$/NDF:41503.4/2

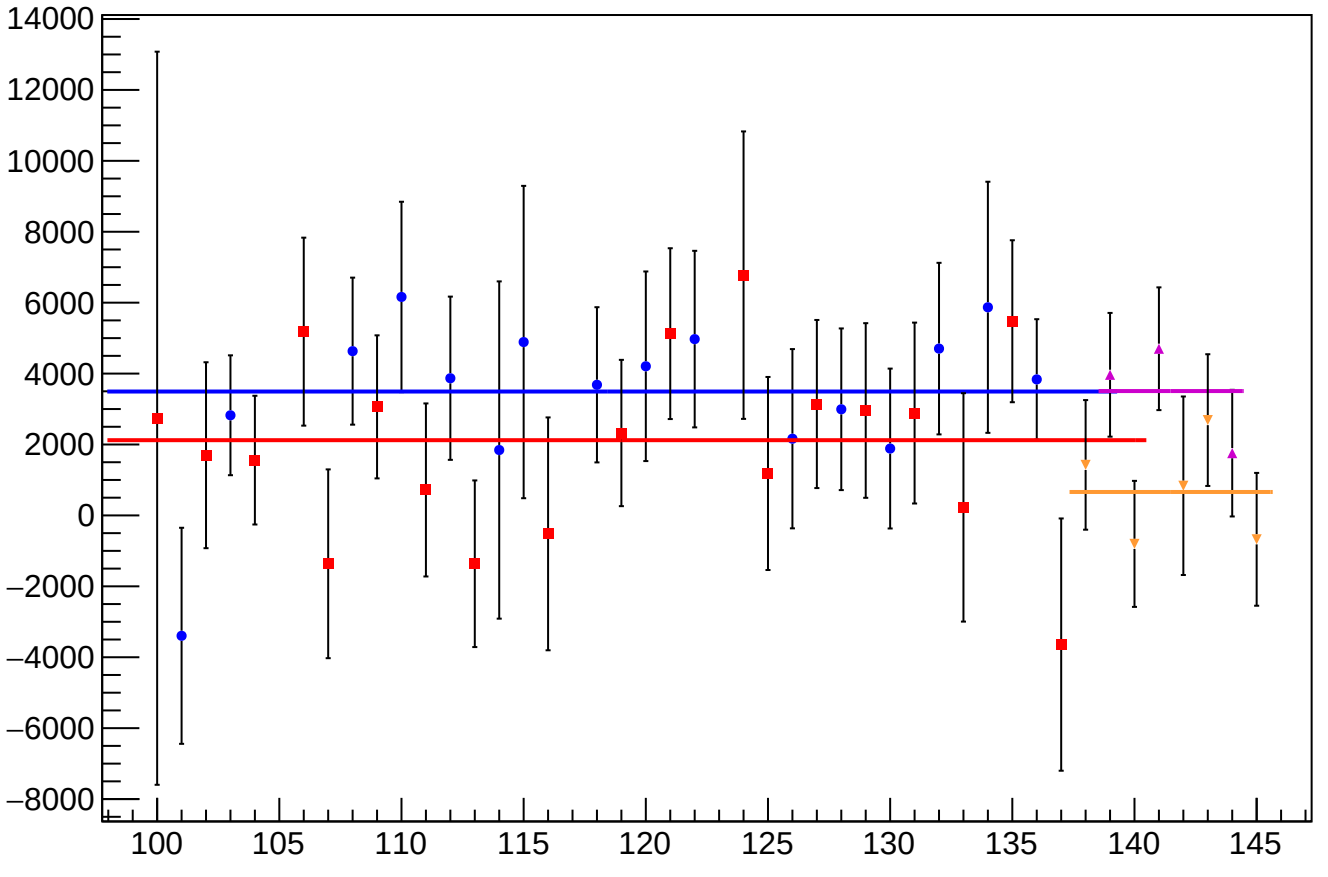
Left: 4721.332+/-1.338 $\chi^2$/NDF: 71388.5/7

Right: 4710.994+/-0.903 $\chi^2$/NDF: 1785885.7/34

In: 4825.235+/-1.114 $\chi^2$/NDF:836865.4/18

Out: 4622.944+/-1.010 $\chi^2$/NDF:1002351.3/23

All: 4714.229+/-0.748 $\chi^2$/NDF: 1857315.2/42




Right In: 3494.046+/-601.185 $\chi^2$/NDF: 8.8/15

Left Out: 661.031+/-861.104 $\chi^2$/NDF:2.6/4

Right Out: 2121.708+/-587.619 $\chi^2$/NDF: 15.1/18

Left In: 3507.146+/-1012.348 $\chi^2$/NDF:1.5/2

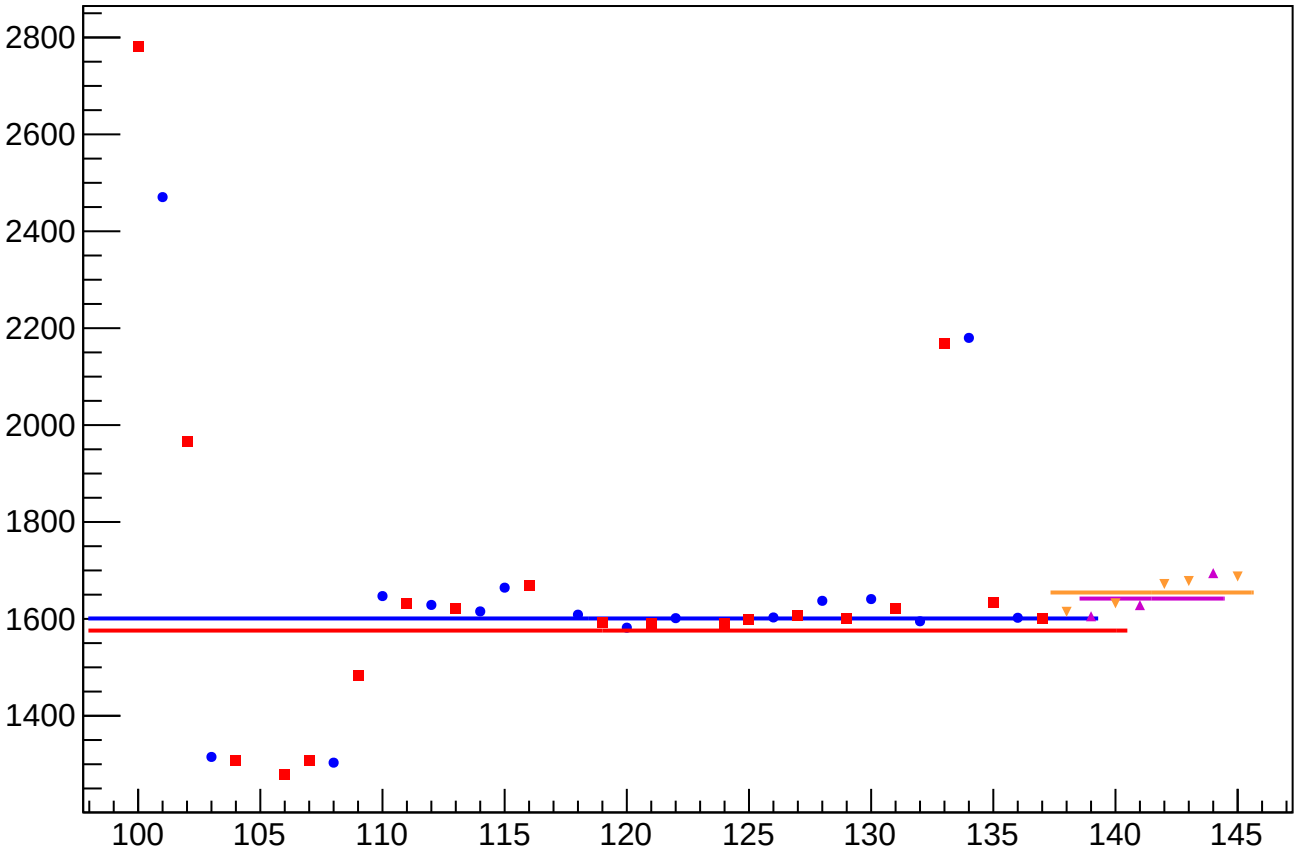
Left: 1855.808+/-655.914 $\chi^2$/NDF: 8.6/7

Right: 2792.219+/-420.224 $\chi^2$/NDF: 26.6/34

In: 3497.461+/-516.909 $\chi^2$/NDF:10.3/18

Out: 1657.622+/-485.375 $\chi^2$/NDF:19.6/23

All: 2519.715+/-353.835 $\chi^2$/NDF: 36.7/42




Right In: 1600.880+/-0.425 $\chi^2$/NDF: 317413.1/15

Left Out: 1654.469+/-0.609 $\chi^2$/NDF:2313.4/4

Right Out: 1575.900+/-0.414 $\chi^2$/NDF: 243332.0/18

Left In: 1641.941+/-0.716 $\chi^2$/NDF:2727.3/2

Left: 1649.210+/-0.464 $\chi^2$/NDF: 5218.4/7

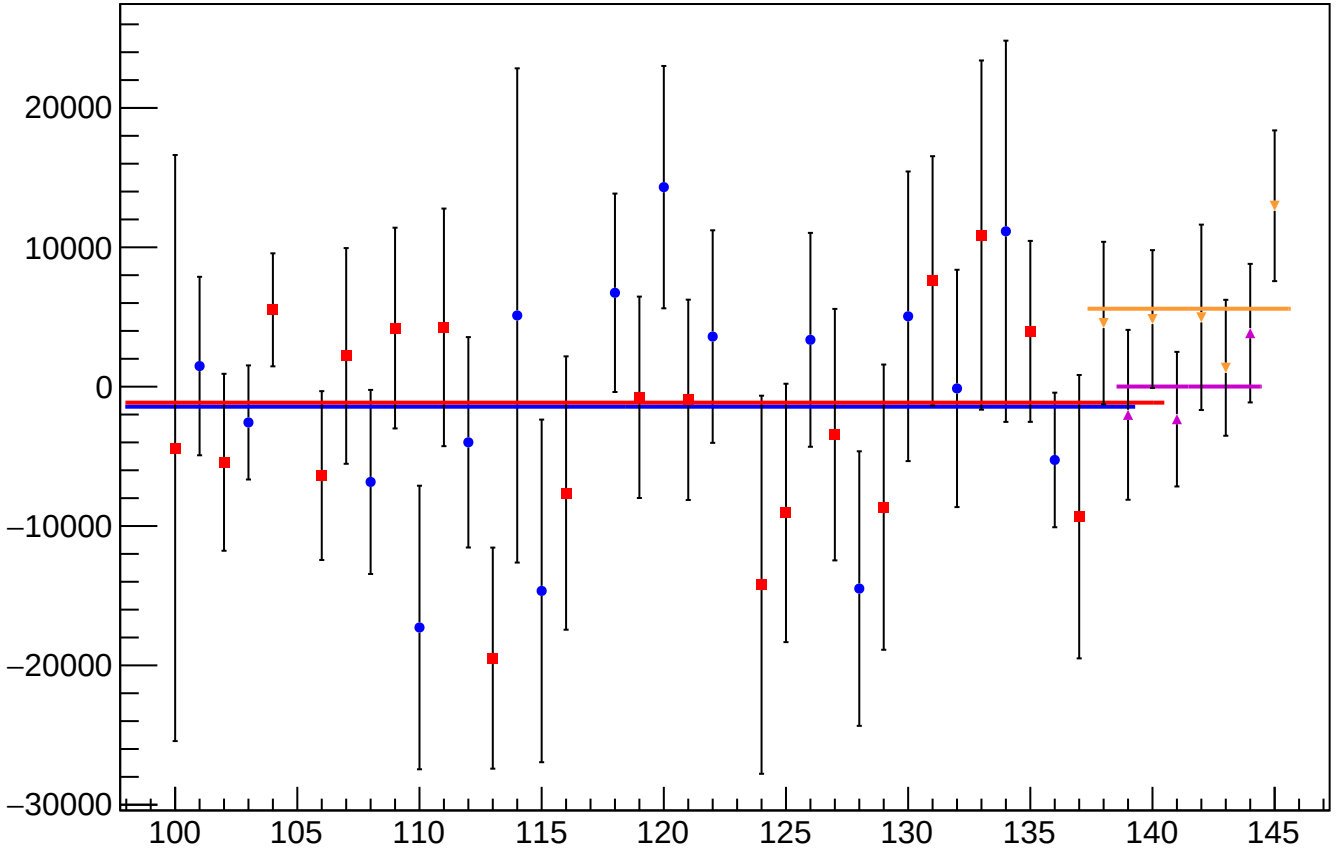
Right: 1588.056+/-0.297 $\chi^2$/NDF: 562517.7/34

In: 1611.585+/-0.366 $\chi^2$/NDF:322572.8/18

Out: 1600.729+/-0.342 $\chi^2$/NDF:257033.9/23

All: 1605.801+/-0.250 $\chi^2$/NDF: 580076.7/42

asym_usr_atr2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1437.362+/-1848.324 $\chi^2$/NDF: 13.9/15

Left Out: 5592.588+/-2431.199 $\chi^2$/NDF:2.7/4

Right Out: -1146.174+/-1765.384 $\chi^2$/NDF: 16.3/18

Left In: 9.109+/-3011.382 $\chi^2$/NDF:0.9/2

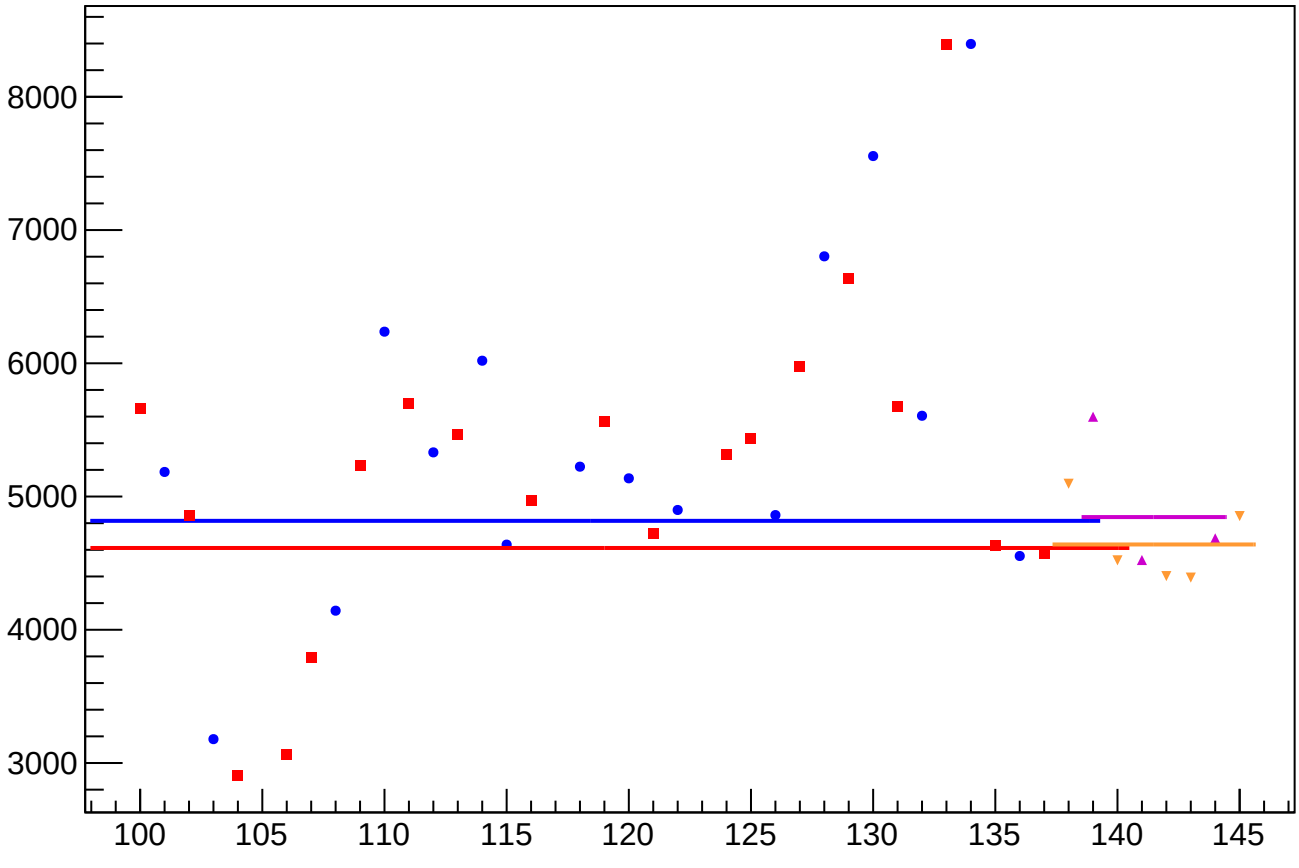
Left: 3389.364+/-1891.659 $\chi^2$/NDF: 5.7/7

Right: -1285.089+/-1276.630 $\chi^2$/NDF: 30.1/34

In: -1041.552+/-1575.268 $\chi^2$/NDF:15.0/18

Out: 1180.310+/-1428.501 $\chi^2$/NDF:24.0/23

All: 177.683+/-1058.195 $\chi^2$/NDF: 40.0/42




Right In: 4817.480+/-1.307 $\chi^2$/NDF: 795233.3/15

Left Out: 4640.191+/-1.719 $\chi^2$/NDF:24239.4/4

Right Out: 4613.851+/-1.248 $\chi^2$/NDF: 977958.2/18

Left In: 4845.822+/-2.129 $\chi^2$/NDF:41503.4/2

Left: 4721.332+/-1.338 $\chi^2$/NDF: 71388.5/7

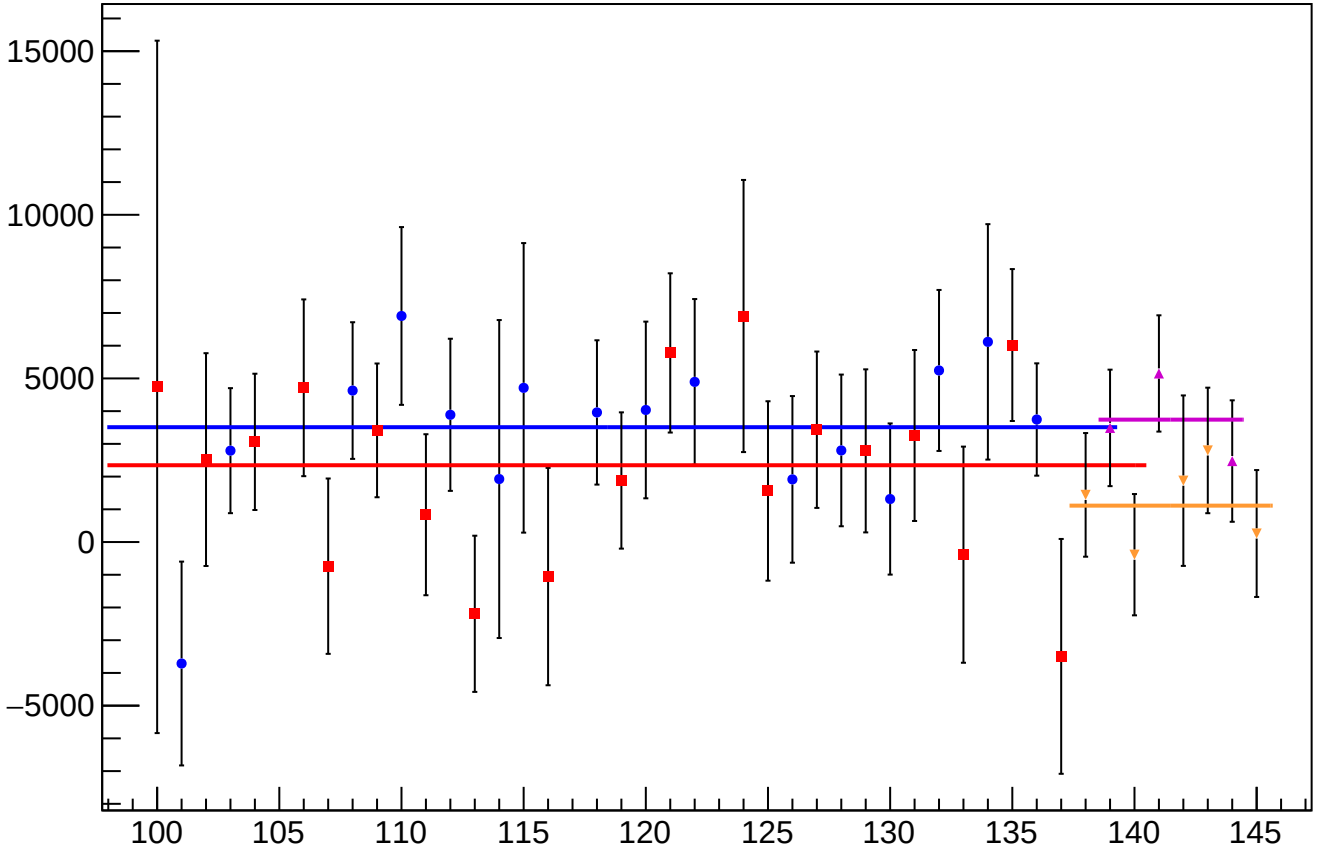
Right: 4710.994+/-0.903 $\chi^2$/NDF: 1785885.7/34

In: 4825.235+/-1.114 $\chi^2$/NDF:836865.4/18

Out: 4622.944+/-1.010 $\chi^2$/NDF:1002351.3/23

All: 4714.229+/-0.748 $\chi^2$/NDF: 1857315.2/42

# dit_asym_usr_atr2_avg_mean vs Slug, Sign Corrected




Right In: 3509.507+/-616.724 $\chi^2$/NDF: 10.4/15

Left Out: 1112.390+/-892.124 $\chi^2$/NDF:1.7/4

Right Out: 2346.859+/-607.502 $\chi^2$/NDF: 17.1/18

Left In: 3740.287+/-1041.000 $\chi^2$/NDF:1.1/2

Left: 2225.148+/-677.403 $\chi^2$/NDF: 6.5/7

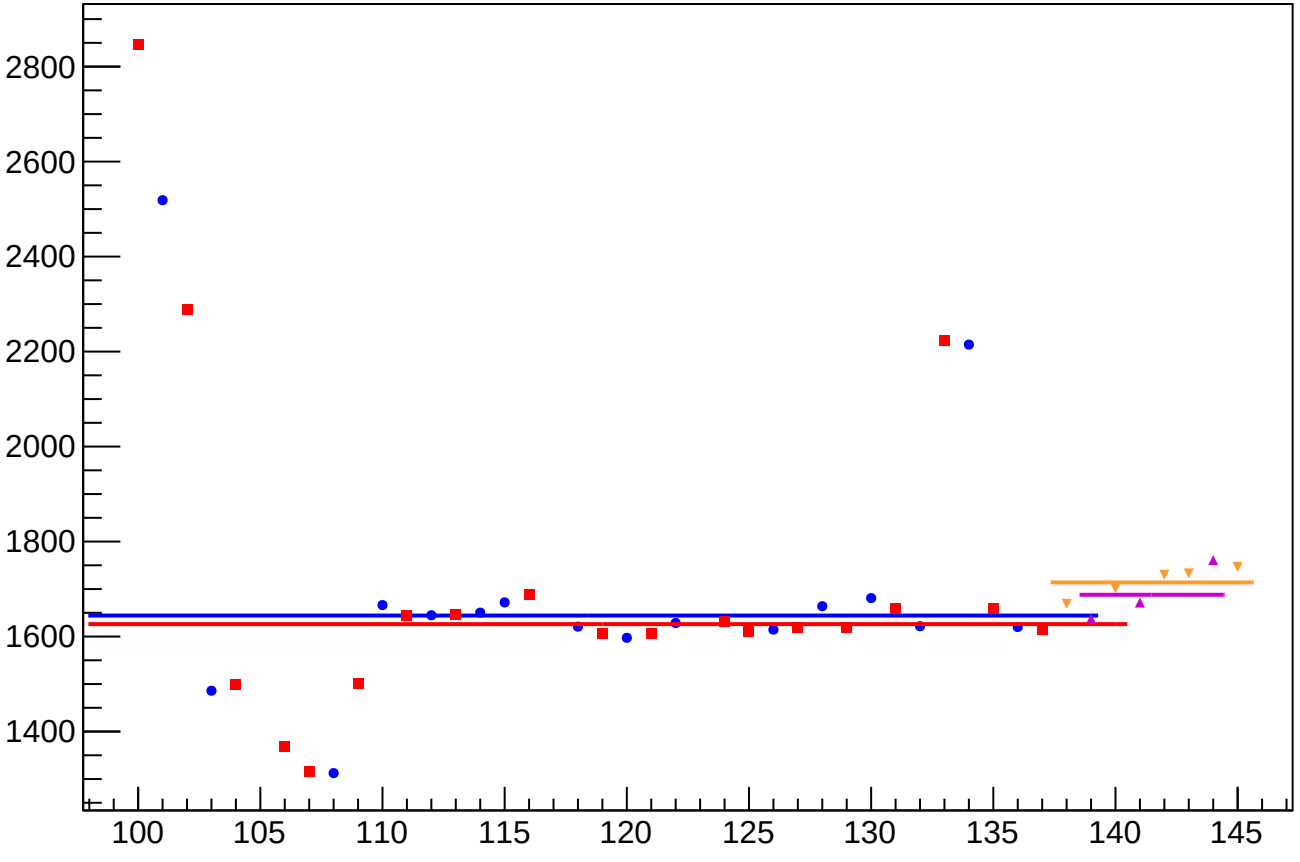
Right: 2919.425+/-432.793 $\chi^2$/NDF: 29.3/34

In: 3569.462+/-530.600 $\chi^2$/NDF:11.5/18

Out: 1955.774+/-502.135 $\chi^2$/NDF:20.2/23

All: 2718.175+/-364.711 $\chi^2$/NDF: 36.6/42

# dit_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1644.198+/-0.436 $\chi^2$/NDF: 274817.9/15

Left Out: 1713.904+/-0.631 $\chi^2$/NDF:2068.9/4

Right Out: 1626.174+/-0.429 $\chi^2$/NDF: 237639.1/18

Left In: 1687.964+/-0.736 $\chi^2$/NDF:4881.7/2

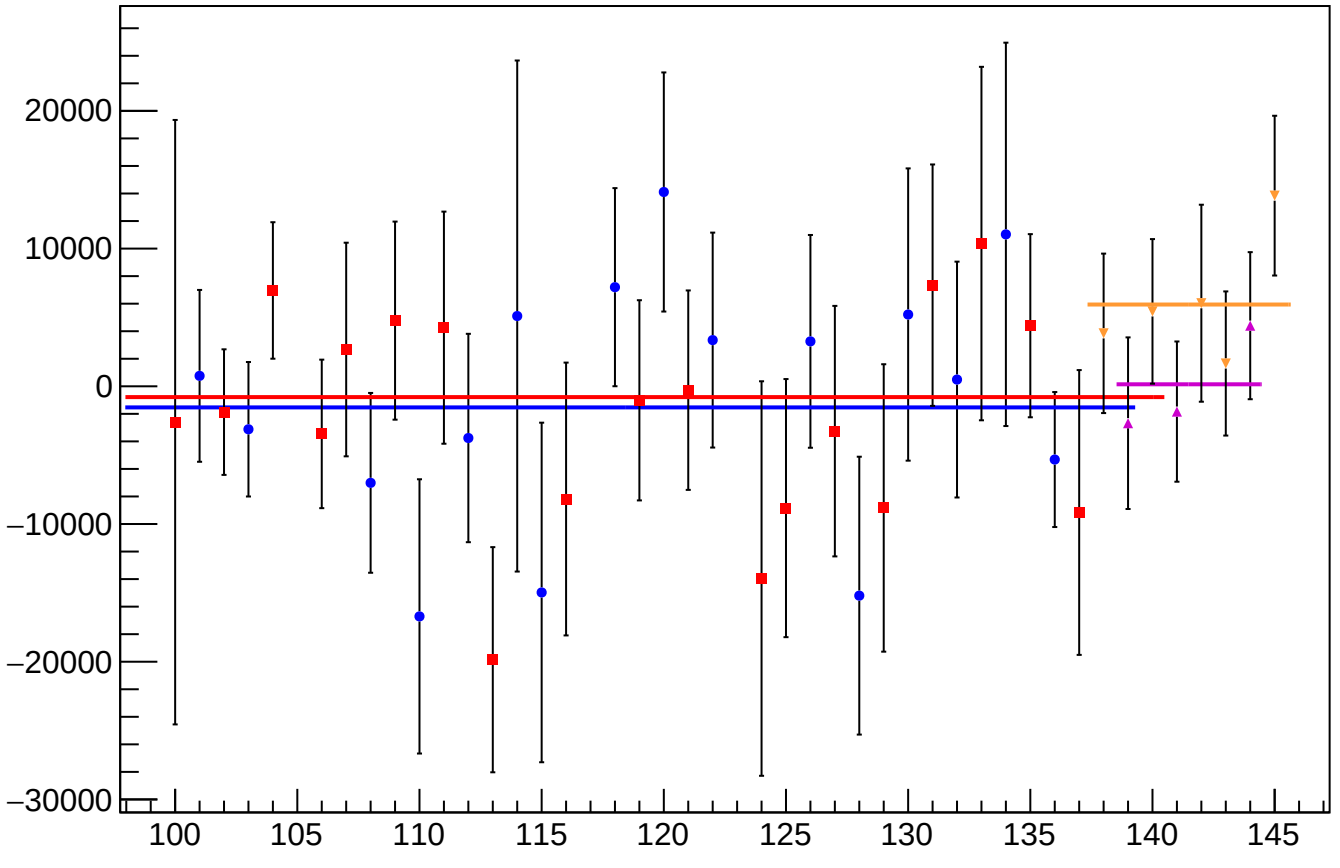
Left: 1702.920+/-0.479 $\chi^2$/NDF: 7666.6/7

Right: 1635.043+/-0.306 $\chi^2$/NDF: 513324.8/34

In: 1655.568+/-0.375 $\chi^2$/NDF:282316.3/18

Out: 1653.934+/-0.355 $\chi^2$/NDF:252928.8/23

All: 1654.706+/-0.258 $\chi^2$/NDF: 535255.0/42




Right In: -1532.110+/-1913.799 $\chi^2$/NDF: 13.9/15

Left Out: 5938.436+/-2565.930 $\chi^2$/NDF:2.7/4

Right Out: -784.235+/-1748.566 $\chi^2$/NDF: 15.0/18

Left In: 145.808+/-3171.813 $\chi^2$/NDF:1.0/2

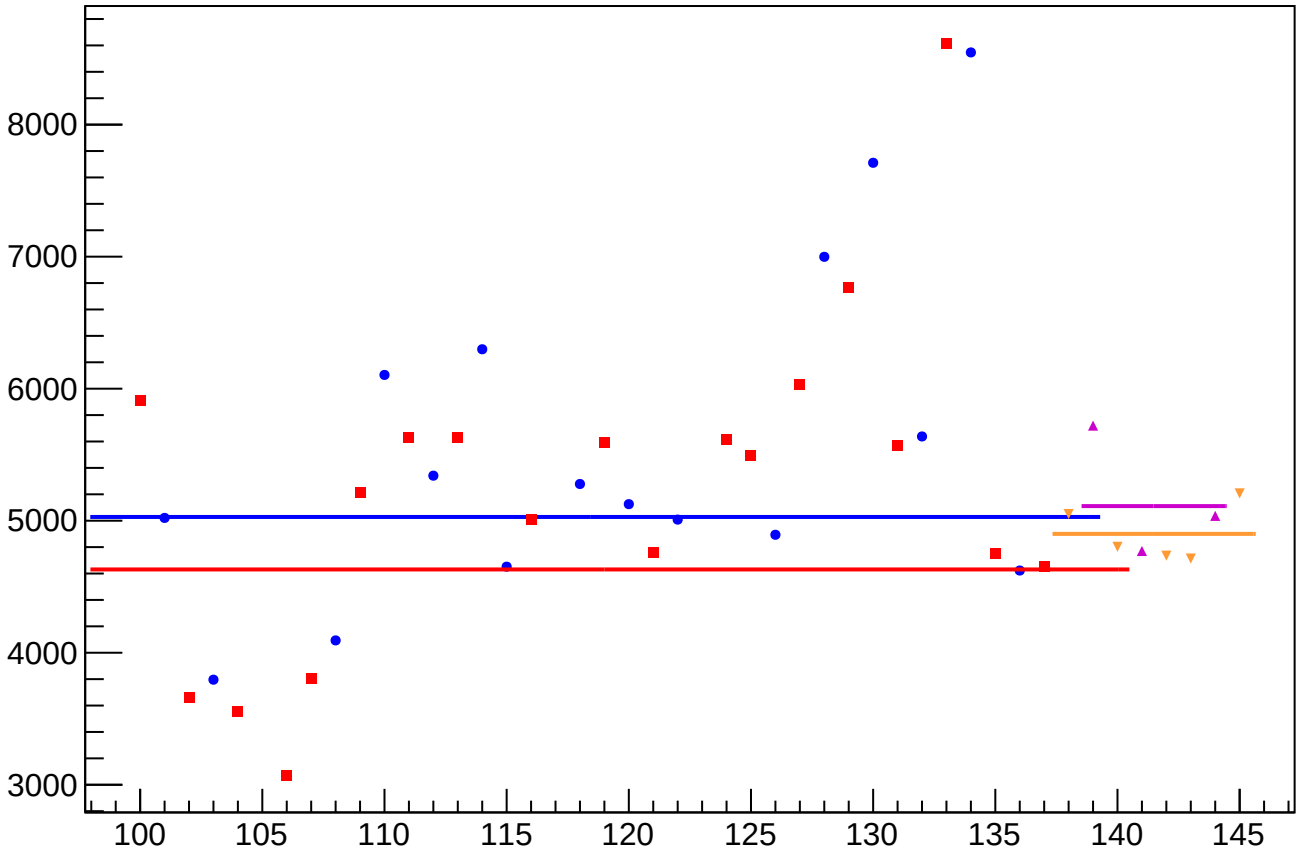
Left: 3647.055+/-1994.887 $\chi^2$/NDF: 5.7/7

Right: -1124.500+/-1290.893 $\chi^2$/NDF: 29.0/34

In: -1084.280+/-1638.623 $\chi^2$/NDF:15.1/18

Out: 1347.642+/-1444.957 $\chi^2$/NDF:22.4/23

All: 283.819+/-1083.774 $\chi^2$/NDF: 38.7/42




Right In: 5028.449+/-1.353 $\chi^2$/NDF: 565469.4/15

Left Out: 4900.261+/-1.814 $\chi^2$/NDF:11251.5/4

Right Out: 4630.901+/-1.236 $\chi^2$/NDF: 863515.0/18

Left In: 5110.703+/-2.243 $\chi^2$/NDF:28445.2/2

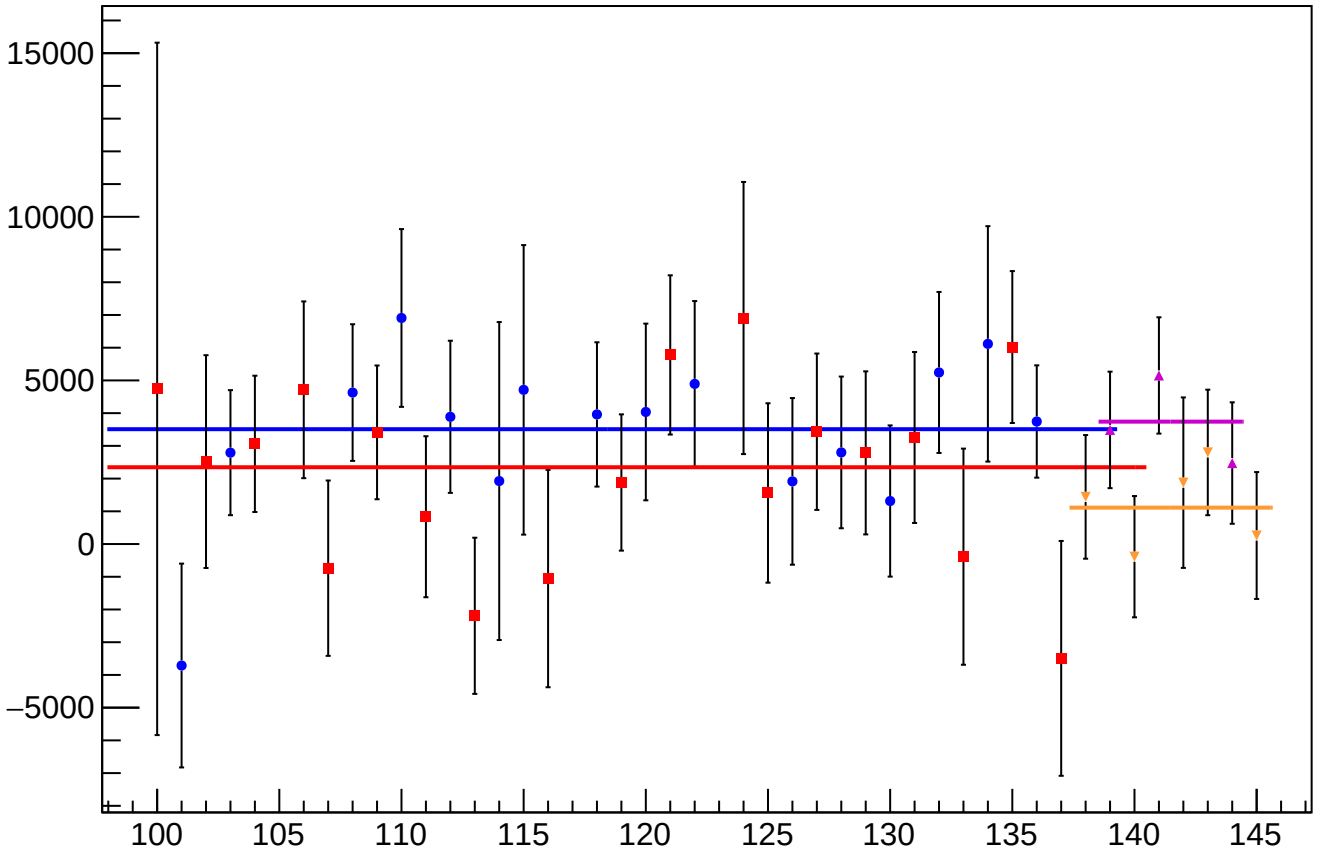
Left: 4983.505+/-1.411 $\chi^2$/NDF: 45018.2/7

Right: 4811.776+/-0.913 $\chi^2$/NDF: 1476020.7/34

In: 5050.403+/-1.159 $\chi^2$/NDF:594900.7/18

Out: 4716.320+/-1.022 $\chi^2$/NDF:889817.0/23

All: 4862.461+/-0.766 $\chi^2$/NDF: 1531485.7/42




Right In: 3509.509+/-616.724 $\chi^2$/NDF: 10.4/15

Left Out: 1112.395+/-892.124 $\chi^2$/NDF:1.7/4

Right Out: 2346.865+/-607.502 $\chi^2$/NDF: 17.1/18

Left In: 3740.275+/-1041.001 $\chi^2$/NDF:1.1/2

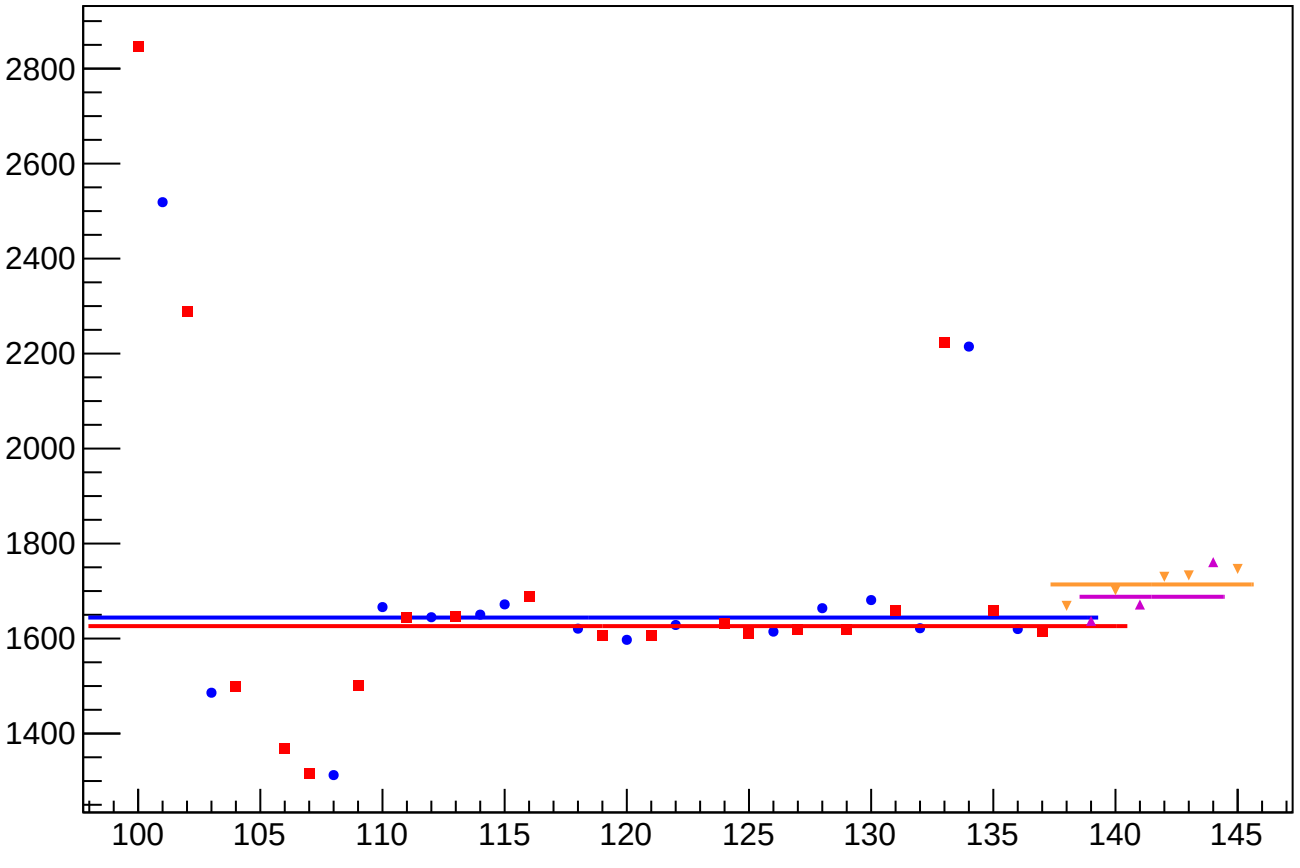
Left: 2225.146+/-677.403 $\chi^2$/NDF: 6.5/7

Right: 2919.429+/-432.792 $\chi^2$/NDF: 29.3/34

In: 3569.461+/-530.599 $\chi^2$/NDF:11.5/18

Out: 1955.780+/-502.135 $\chi^2$/NDF:20.2/23

All: 2718.178+/-364.711 $\chi^2$/NDF: 36.6/42




Right In: 1644.198+/-0.436 $\chi^2$/NDF: 274818.1/15

Left Out: 1713.905+/-0.631 $\chi^2$/NDF:2069.0/4

Right Out: 1626.174+/-0.429 $\chi^2$/NDF: 237638.8/18

Left In: 1687.965+/-0.736 $\chi^2$/NDF:4881.7/2

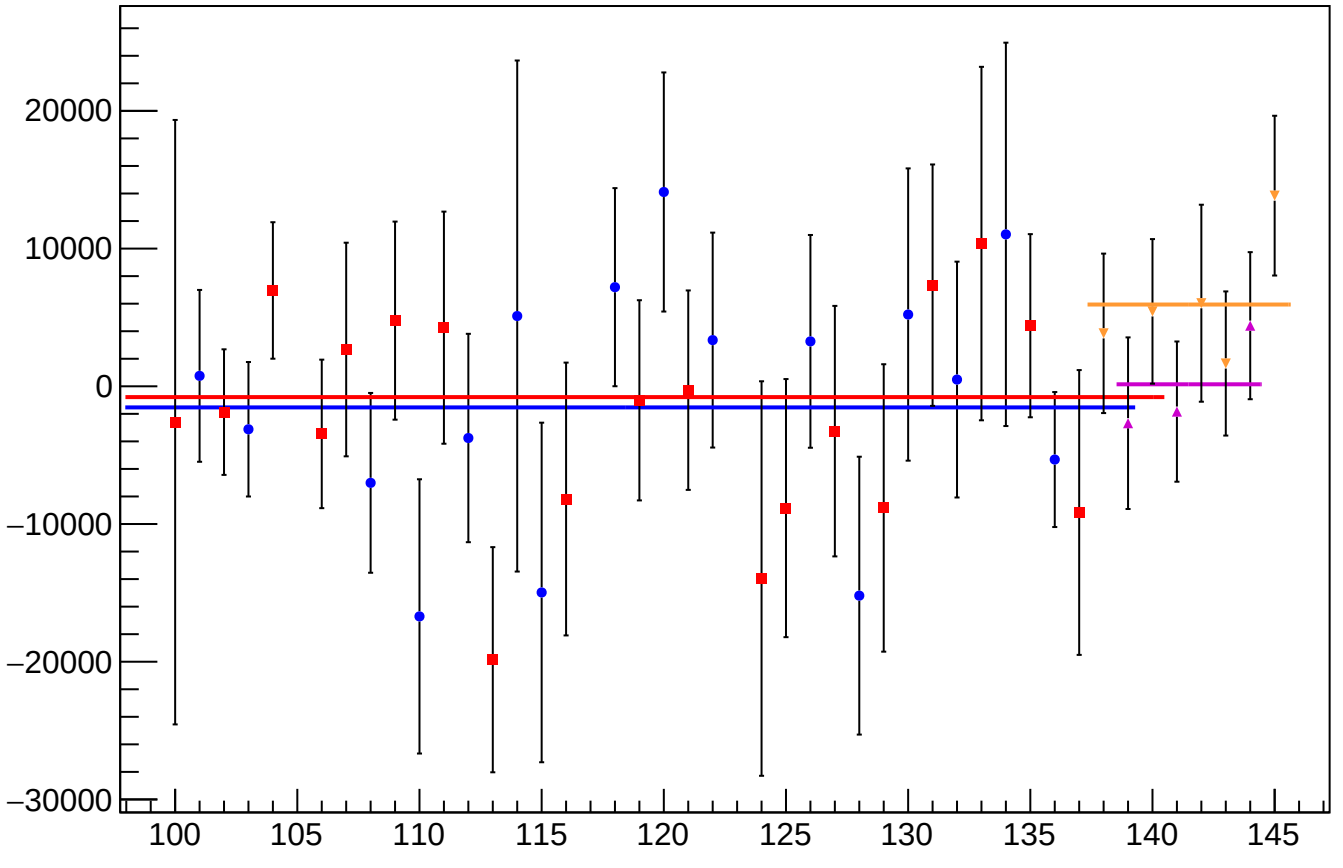
Left: 1702.921+/-0.479 $\chi^2$/NDF: 7666.7/7

Right: 1635.042+/-0.306 $\chi^2$/NDF: 513324.5/34

In: 1655.568+/-0.375 $\chi^2$/NDF:282316.6/18

Out: 1653.934+/-0.355 $\chi^2$/NDF:252928.9/23

All: 1654.706+/-0.258 $\chi^2$/NDF: 535255.5/42




Right In: -1532.095+/-1913.796 $\chi^2$/NDF: 13.9/15

Left Out: 5938.443+/-2565.934 $\chi^2$/NDF:2.7/4

Right Out: -784.236+/-1748.563 $\chi^2$/NDF: 15.0/18

Left In: 145.797+/-3171.816 $\chi^2$/NDF:1.0/2

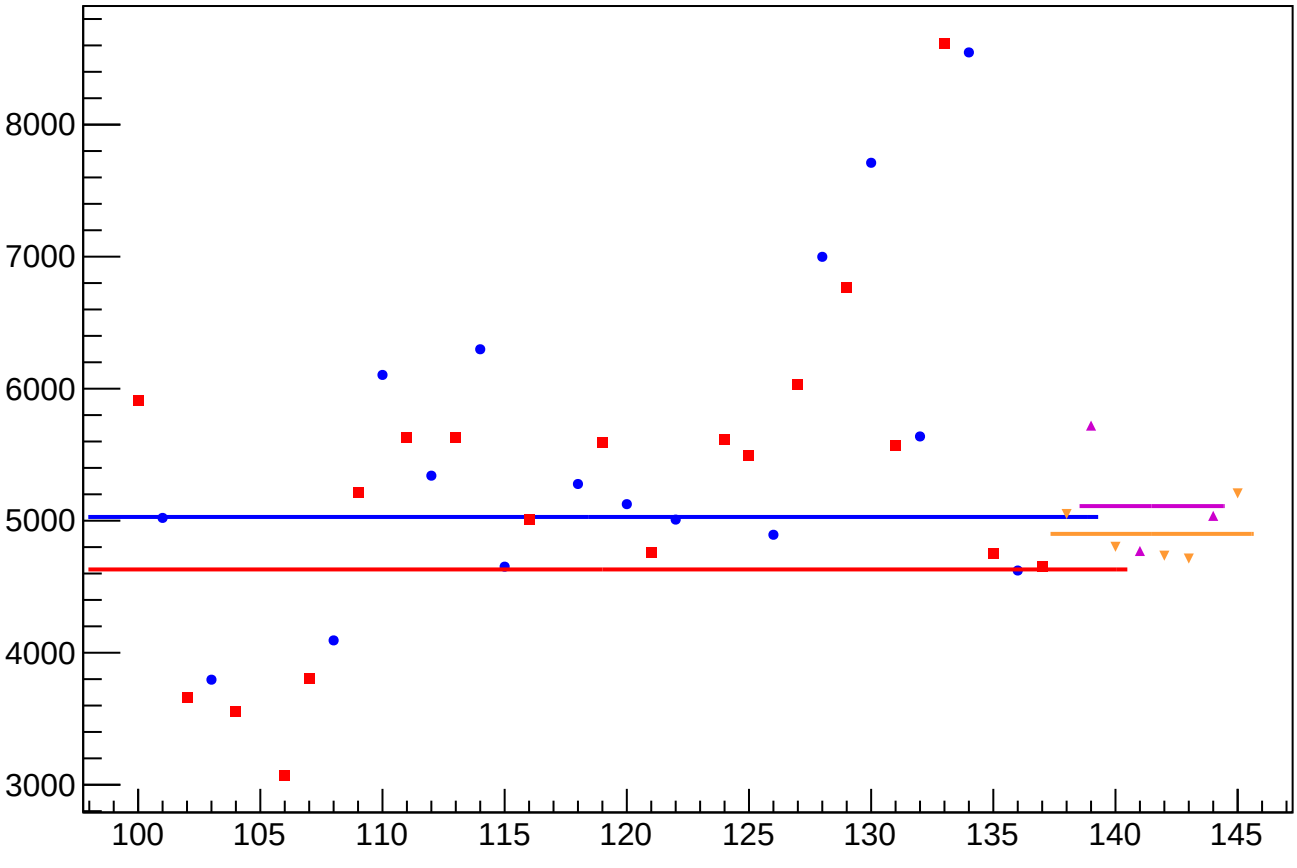
Left: 3647.054+/-1994.890 $\chi^2$/NDF: 5.7/7

Right: -1124.493+/-1290.891 $\chi^2$/NDF: 29.0/34

In: -1084.273+/-1638.621 $\chi^2$/NDF:15.1/18

Out: 1347.634+/-1444.956 $\chi^2$/NDF:22.4/23

All: 283.817+/-1083.774 $\chi^2$/NDF: 38.7/42




Right In: 5028.443+/-1.353 $\chi^2$/NDF: 565463.1/15

Left Out: 4900.268+/-1.814 $\chi^2$/NDF:11251.8/4

Right Out: 4630.895+/-1.236 $\chi^2$/NDF: 863509.0/18

Left In: 5110.709+/-2.243 $\chi^2$/NDF:28446.0/2

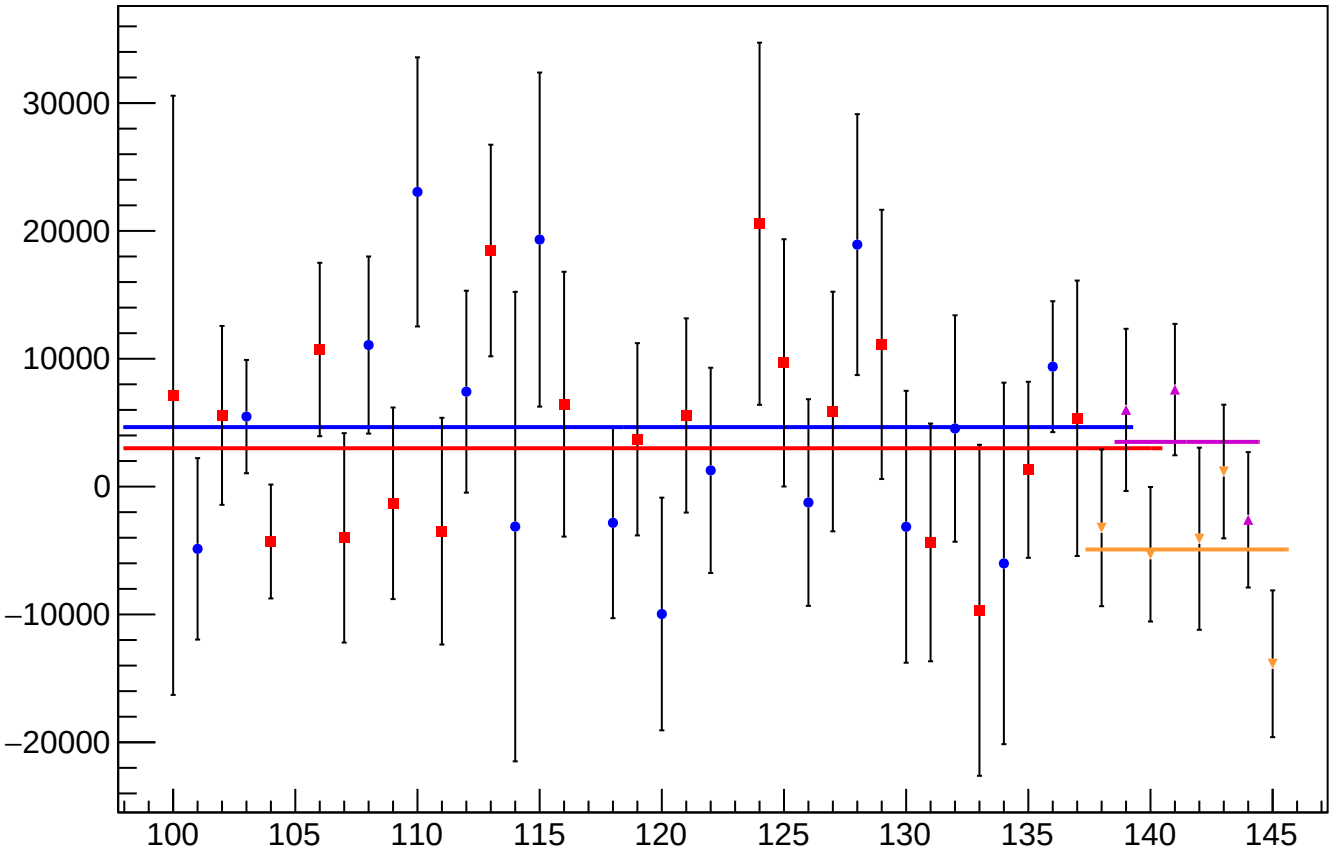
Left: 4983.512+/-1.411 $\chi^2$/NDF: 45019.1/7

Right: 4811.769+/-0.913 $\chi^2$/NDF: 1476008.6/34

In: 5050.399+/-1.159 $\chi^2$/NDF:594895.4/18

Out: 4716.317+/-1.022 $\chi^2$/NDF:889812.9/23

All: 4862.459+/-0.766 $\chi^2$/NDF: 1531476.1/42




Right In: 4653.137+/-1958.496 $\chi^2$/NDF: 15.5/15

Left Out: -4917.913+/-2587.090 $\chi^2$/NDF:3.9/4

Right Out: 3000.980+/-1882.821 $\chi^2$/NDF: 13.9/18

Left In: 3497.203+/-3188.397 $\chi^2$/NDF:2.1/2

Left: -1577.088+/-2008.950 $\chi^2$/NDF: 10.2/7

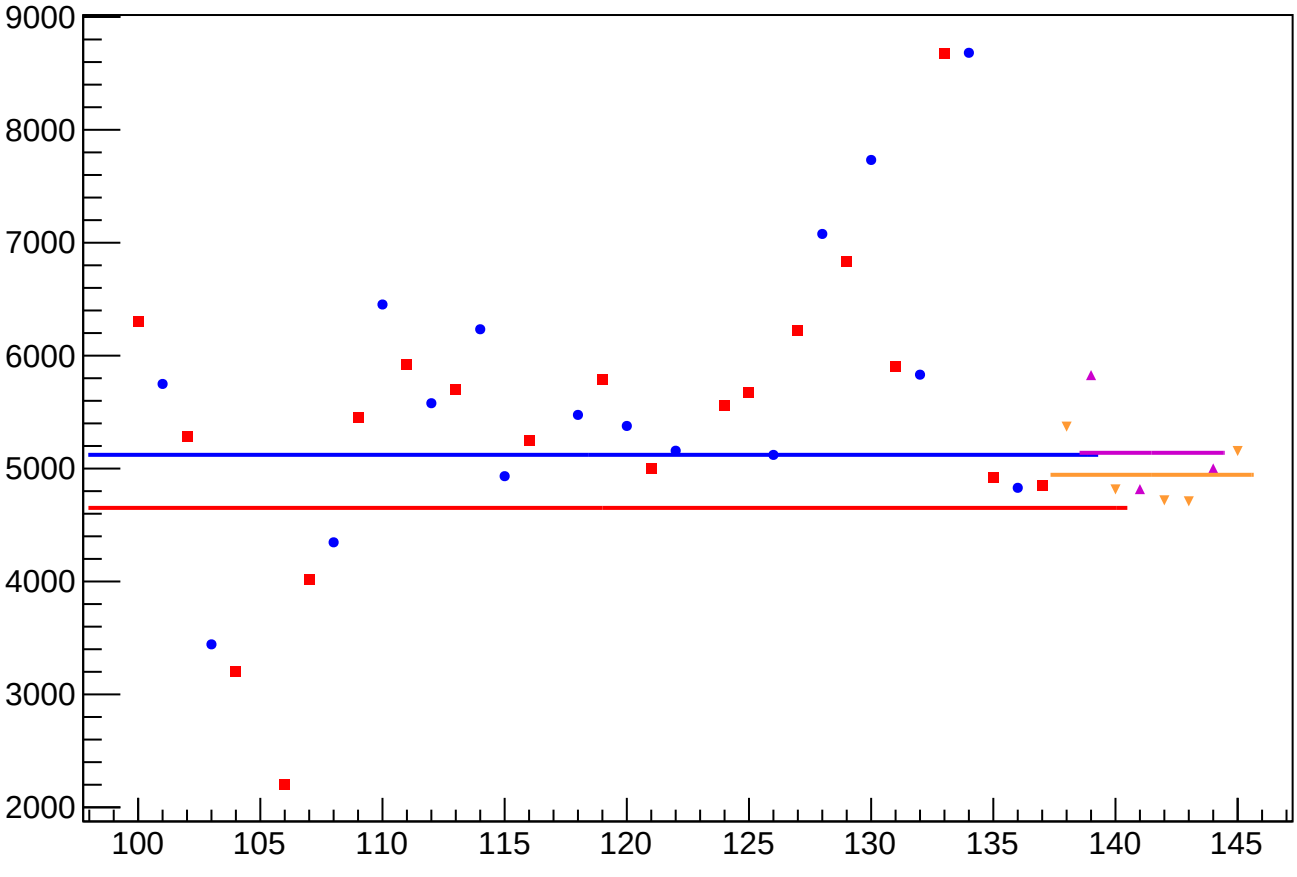
Right: 3794.523+/-1357.320 $\chi^2$/NDF: 29.8/34

In: 4336.471+/-1668.808 $\chi^2$/NDF:17.7/18

Out: 258.994+/-1522.341 $\chi^2$/NDF:23.9/23

All: 2110.978+/-1124.681 $\chi^2$/NDF: 44.9/42

# asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 5121.644+/-1.385 $\chi^2$/NDF: 720370.1/15

Left Out: 4944.784+/-1.829 $\chi^2$/NDF:19633.5/4

Right Out: 4651.727+/-1.280 $\chi^2$/NDF: 1344868.0/18

Left In: 5139.584+/-2.255 $\chi^2$/NDF:32728.2/2

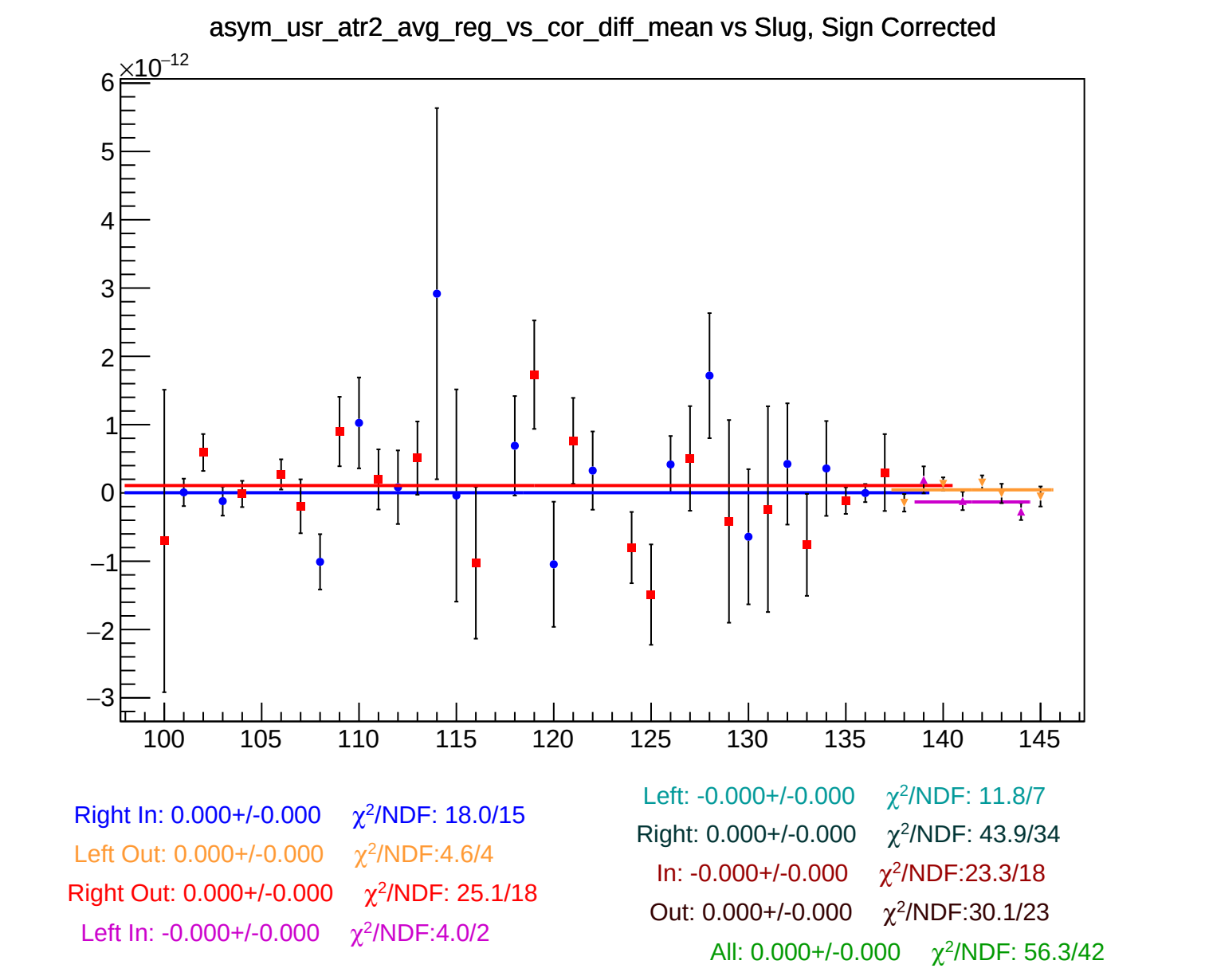
Left: 5022.120+/-1.421 $\chi^2$/NDF: 56863.4/7

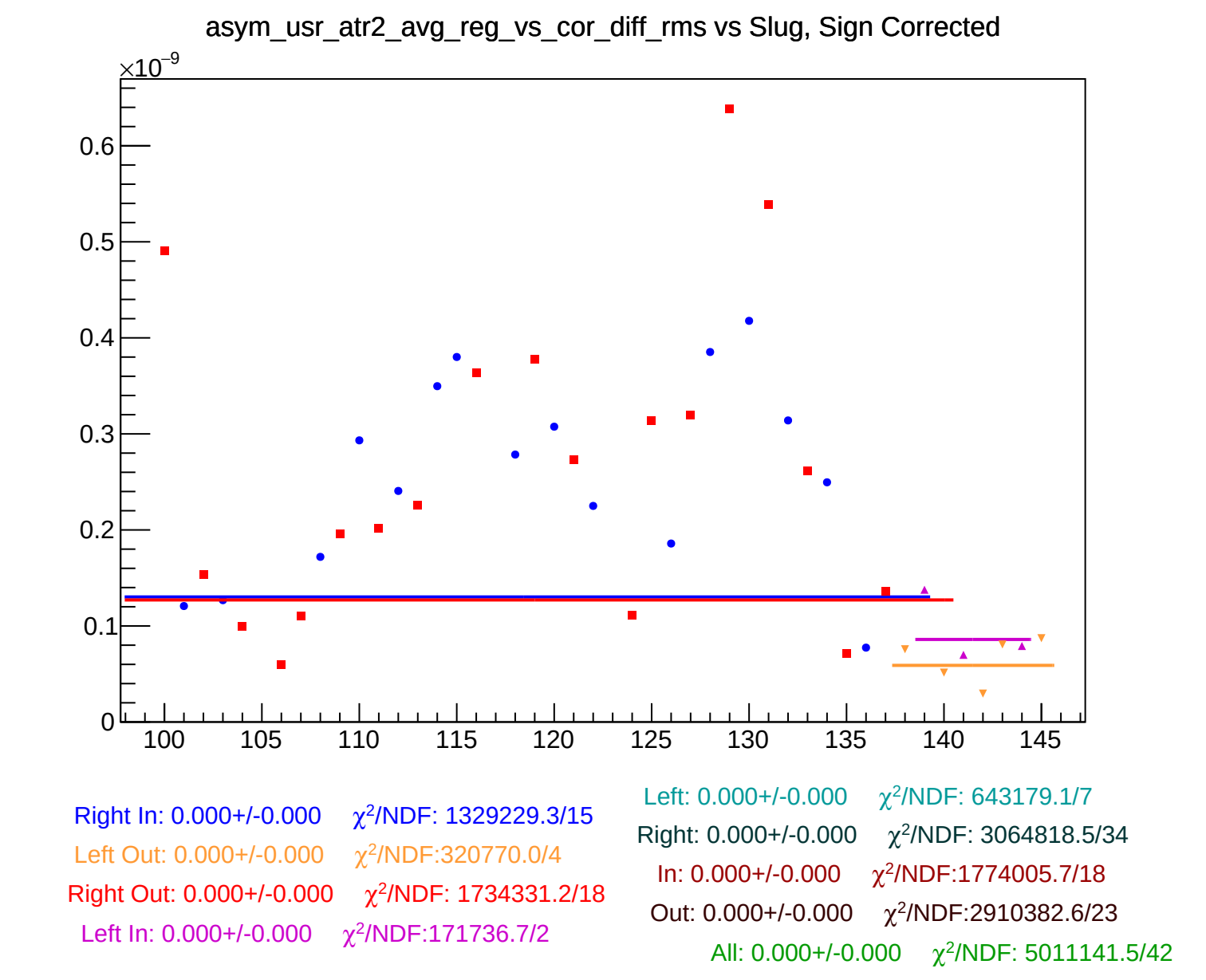
Right: 4868.287+/-0.940 $\chi^2$/NDF: 2127316.1/34

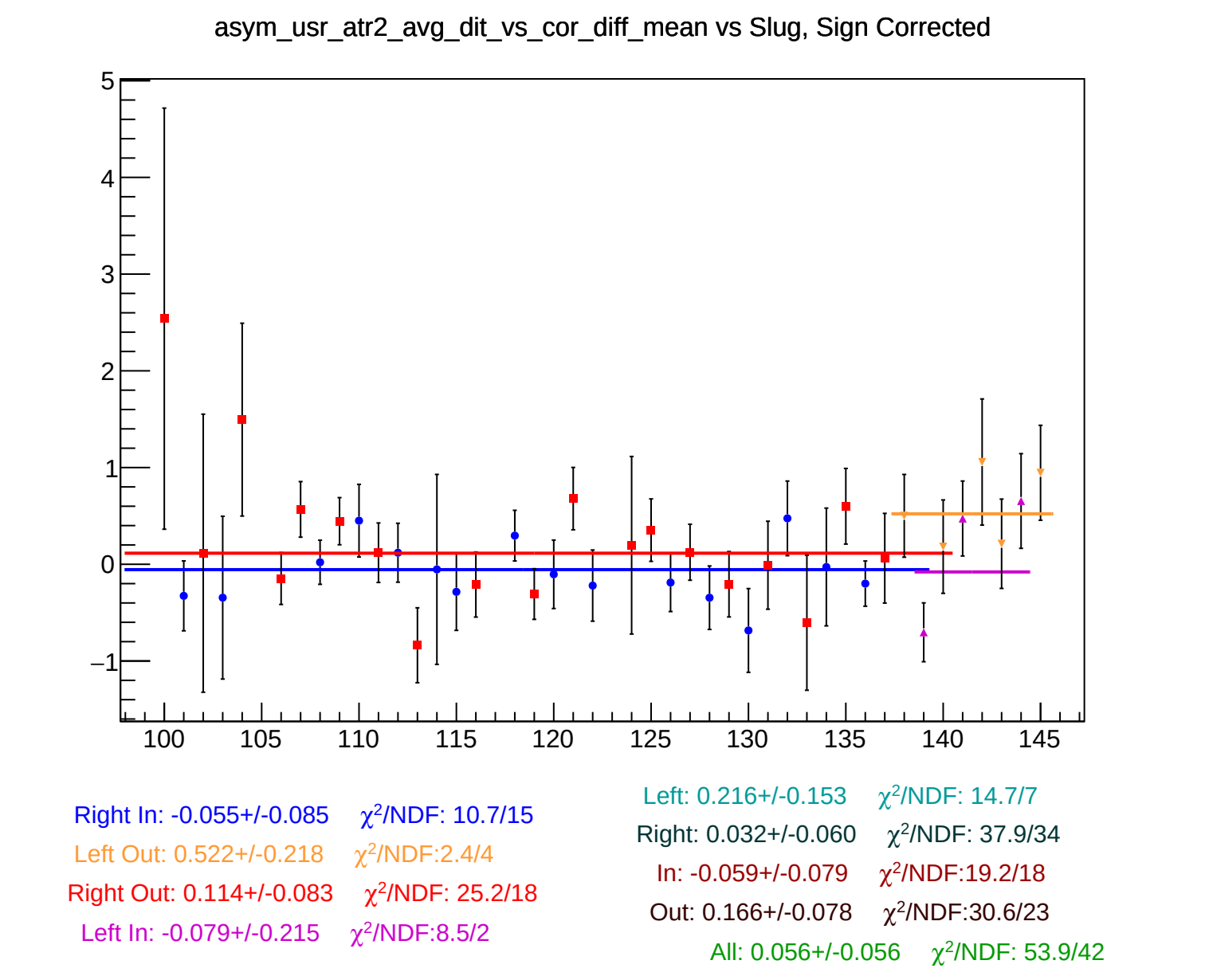
In: 5126.558+/-1.180 $\chi^2$/NDF:753144.3/18

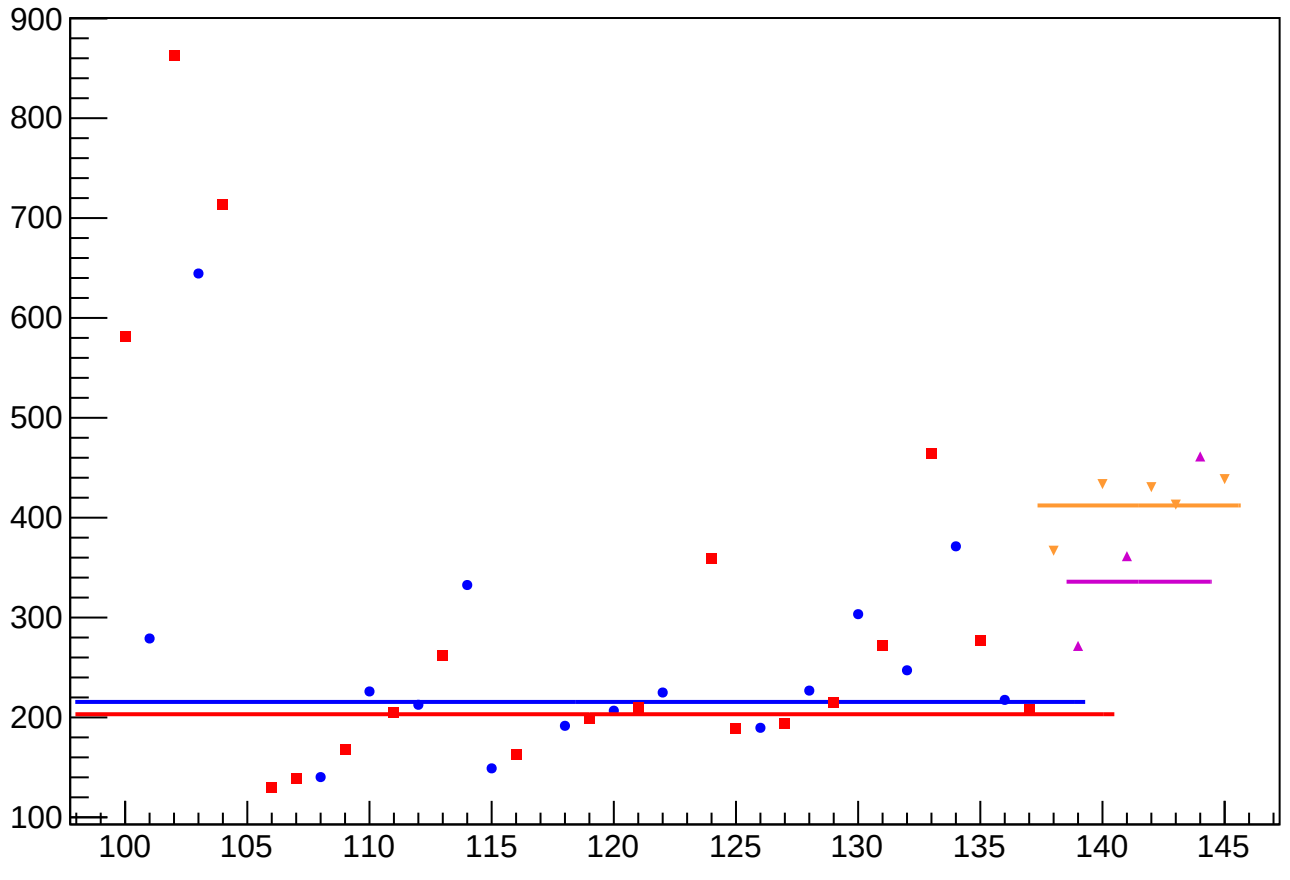
Out: 4748.082+/-1.049 $\chi^2$/NDF:1381726.7/23

All: 4915.142+/-0.784 $\chi^2$/NDF: 2192334.8/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 18.0/15
Left Out: 0.000+/-0.000 χ²/NDF:4.6/4
Right Out: 0.000+/-0.000 χ²/NDF: 25.1/18
Left In: -0.000+/-0.000 χ²/NDF:4.0/2
Left: -0.000+/-0.000 χ²/NDF: 11.8/7
Right: 0.000+/-0.000 χ²/NDF: 43.9/34
In: -0.000+/-0.000 χ²/NDF:23.3/18
Out: 0.000+/-0.000 χ²/NDF:30.1/23
All: 0.000+/-0.000 χ²/NDF: 56.3/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1329229.3/15
Left Out: 0.000+/-0.000 χ²/NDF:320770.0/4
Right Out: 0.000+/-0.000 χ²/NDF: 1734331.2/18
Left In: 0.000+/-0.000 χ²/NDF:171736.7/2
Left: 0.000+/-0.000 χ²/NDF: 643179.1/7
Right: 0.000+/-0.000 χ²/NDF: 3064818.5/34
In: 0.000+/-0.000 χ²/NDF:1774005.7/18
Out: 0.000+/-0.000 χ²/NDF:2910382.6/23
All: 0.000+/-0.000 χ²/NDF: 5011141.5/42


asym_usr_atr2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected
5
4
3
2
1
0
−1
100
105
110
115
120
125
130
135
140
145
Right In: -0.055+/-0.085 χ²/NDF: 10.7/15
Left Out: 0.522+/-0.218 χ²/NDF:2.4/4
Right Out: 0.114+/-0.083 χ²/NDF: 25.2/18
Left In: -0.079+/-0.215 χ²/NDF:8.5/2
Left: 0.216+/-0.153 χ²/NDF: 14.7/7
Right: 0.032+/-0.060 χ²/NDF: 37.9/34
In: -0.059+/-0.079 χ²/NDF:19.2/18
Out: 0.166+/-0.078 χ²/NDF:30.6/23
All: 0.056+/-0.056 χ²/NDF: 53.9/42




Right In: 215.519+/-0.060 $\chi^2$/NDF: 1148727.3/15

Left Out: 412.244+/-0.154 $\chi^2$/NDF:33737.9/4

Right Out: 203.207+/-0.059 $\chi^2$/NDF: 1835552.6/18

Left In: 335.887+/-0.152 $\chi^2$/NDF:229262.3/2

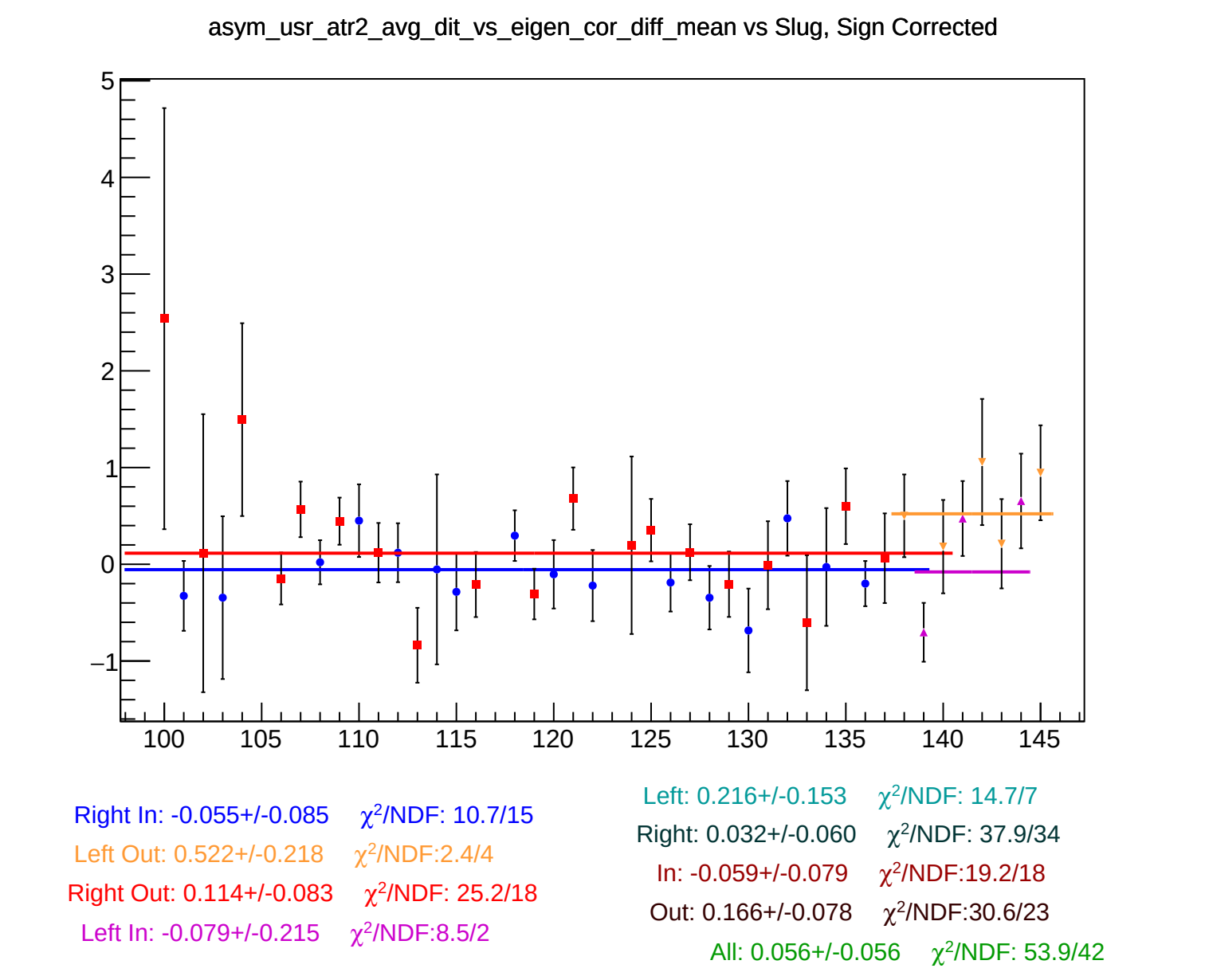
Left: 373.451+/-0.108 $\chi^2$/NDF: 387099.0/7

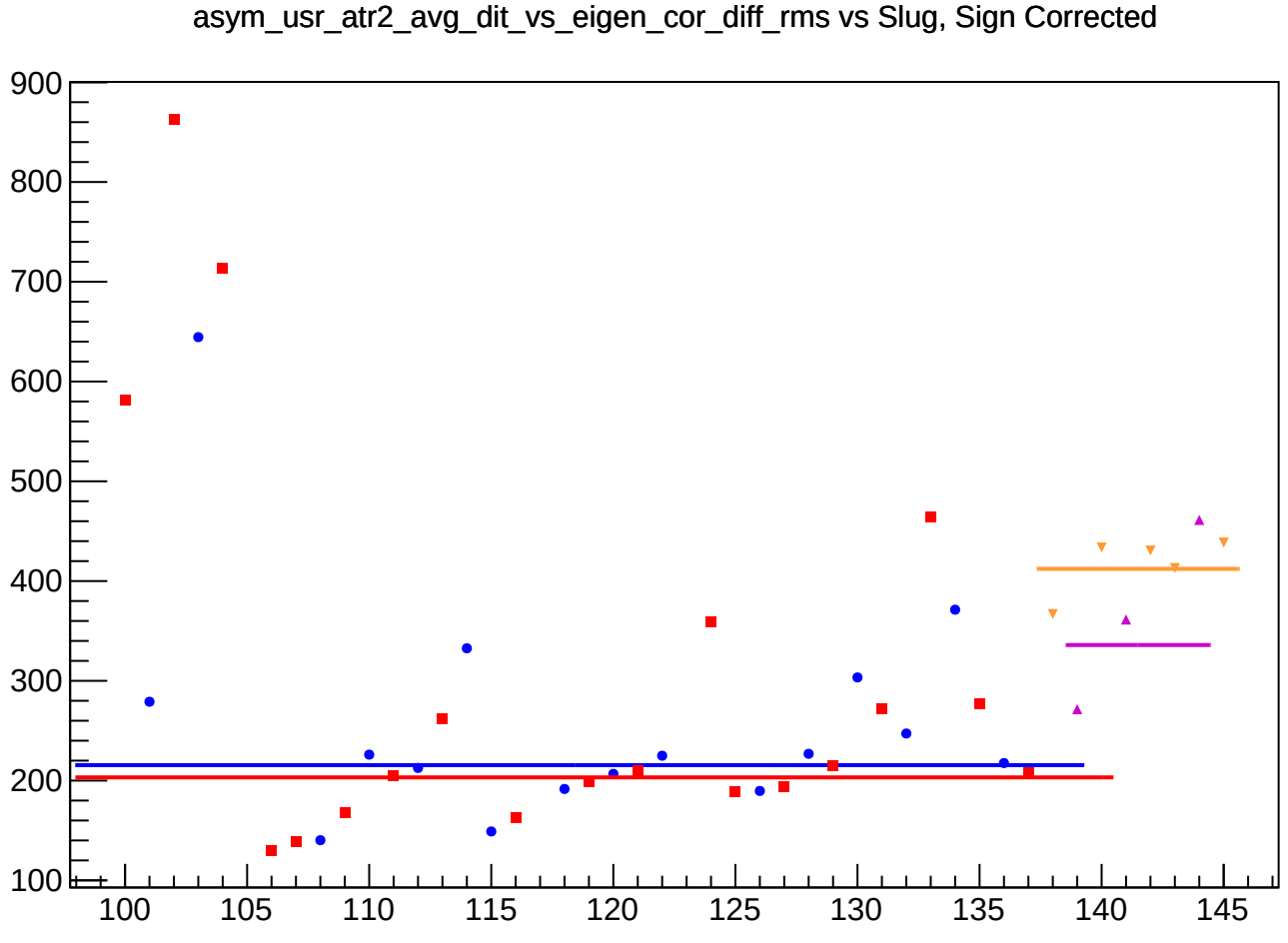
Right: 209.199+/-0.042 $\chi^2$/NDF: 3005585.2/34

In: 231.945+/-0.056 $\chi^2$/NDF:1919297.2/18

Out: 229.688+/-0.055 $\chi^2$/NDF:3468014.3/23

All: 230.793+/-0.039 $\chi^2$/NDF: 5388136.0/42


asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
5
4
3
2
1
0
−1
100
105
110
115
120
125
130
135
140
145
Right In: -0.055+/-0.085 χ²/NDF: 10.7/15
Left Out: 0.522+/-0.218 χ²/NDF:2.4/4
Right Out: 0.114+/-0.083 χ²/NDF: 25.2/18
Left In: -0.079+/-0.215 χ²/NDF:8.5/2
Left: 0.216+/-0.153 χ²/NDF: 14.7/7
Right: 0.032+/-0.060 χ²/NDF: 37.9/34
In: -0.059+/-0.079 χ²/NDF:19.2/18
Out: 0.166+/-0.078 χ²/NDF:30.6/23
All: 0.056+/-0.056 χ²/NDF: 53.9/42




Right In: 215.519+/-0.060 $\chi^2$/NDF: 1148727.3/15

Left Out: 412.244+/-0.154 $\chi^2$/NDF:33737.9/4

Right Out: 203.207+/-0.059 $\chi^2$/NDF: 1835552.6/18

Left In: 335.887+/-0.152 $\chi^2$/NDF:229262.3/2

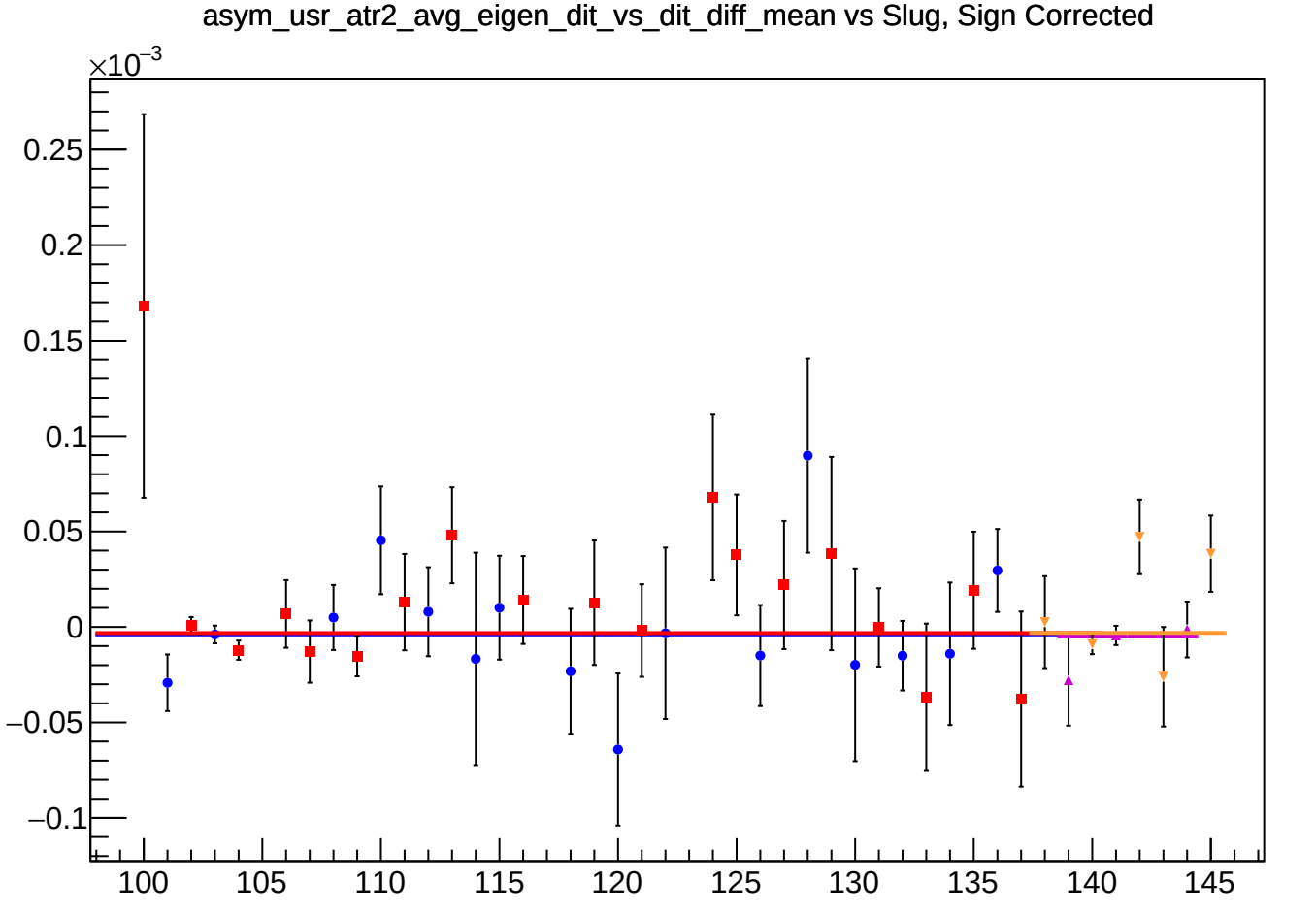
Left: 373.451+/-0.108 $\chi^2$/NDF: 387099.0/7

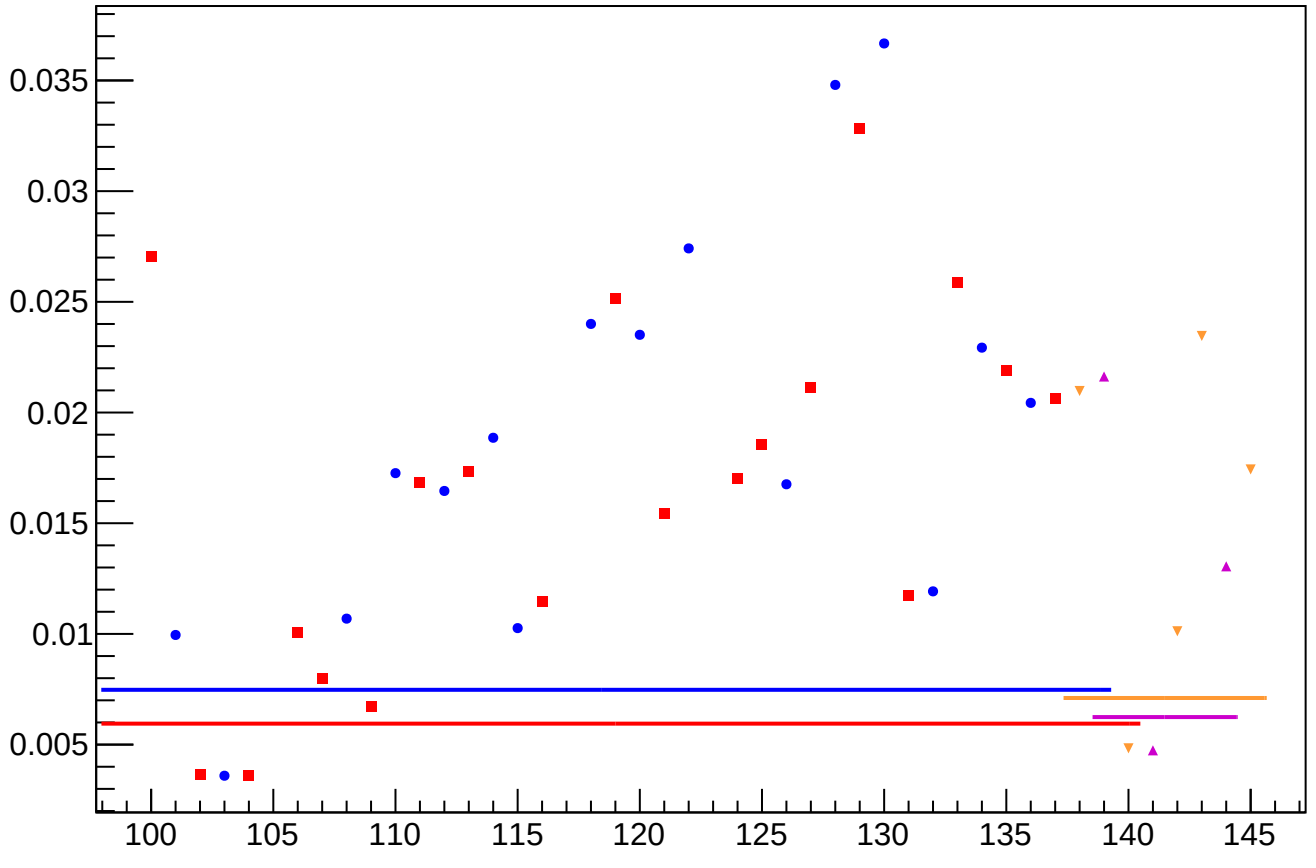
Right: 209.199+/-0.042 $\chi^2$/NDF: 3005585.2/34

In: 231.945+/-0.056 $\chi^2$/NDF:1919297.2/18

Out: 229.688+/-0.055 $\chi^2$/NDF:3468014.3/23

All: 230.793+/-0.039 $\chi^2$/NDF: 5388136.0/42


asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 16.0/15
Left Out: -0.000+/-0.000 χ²/NDF:13.0/4
Right Out: -0.000+/-0.000 χ²/NDF: 21.6/18
Left In: -0.000+/-0.000 χ²/NDF:1.0/2
Left: -0.000+/-0.000 χ²/NDF: 14.1/7
Right: -0.000+/-0.000 χ²/NDF: 37.6/34
In: -0.000+/-0.000 χ²/NDF:17.0/18
Out: -0.000+/-0.000 χ²/NDF:34.7/23
All: -0.000+/-0.000 χ²/NDF: 51.7/42




Right In: 0.007+/-0.000 $\chi^2$/NDF: 6076199.5/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:2406204.6/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 5934015.2/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:1445875.9/2

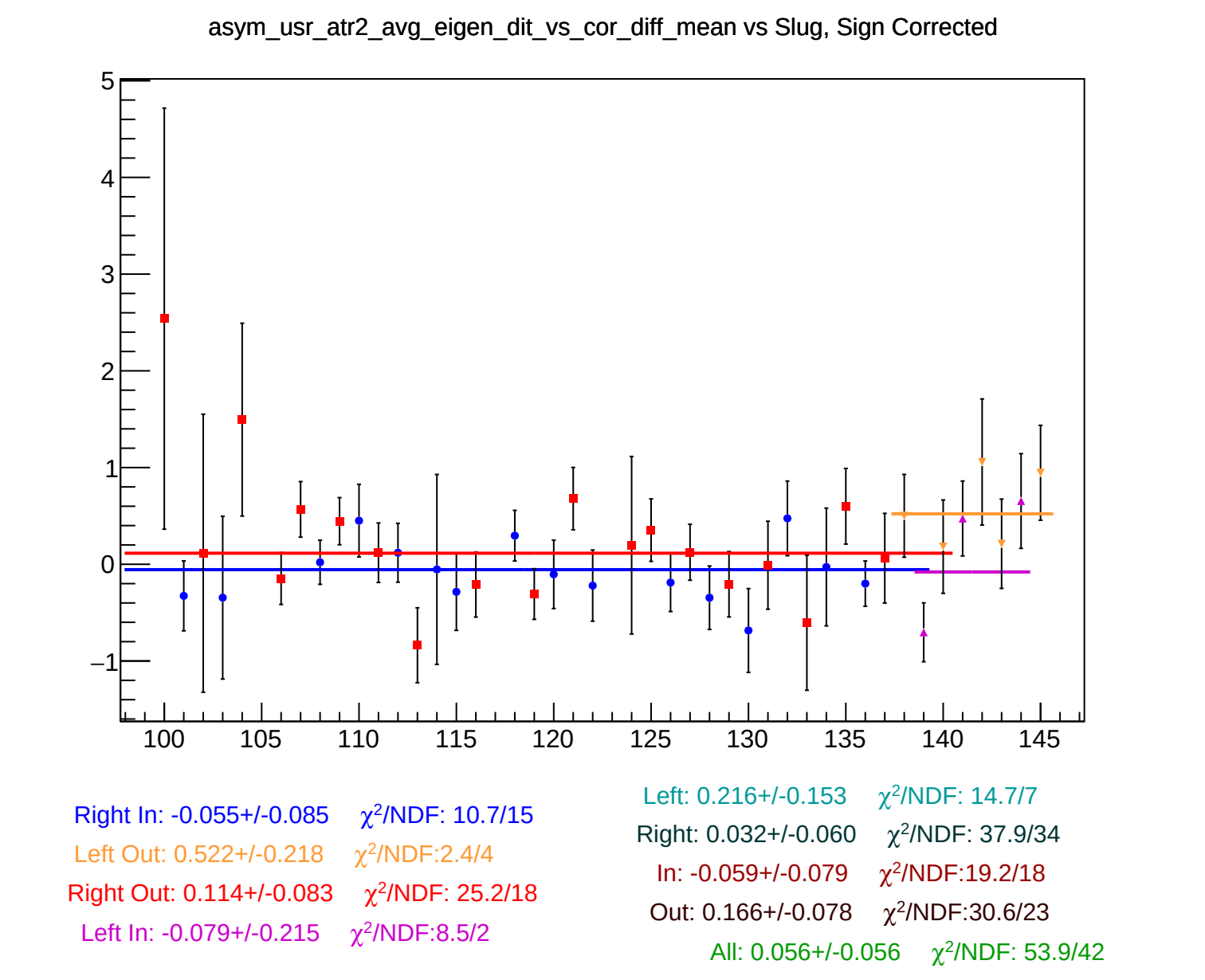
Left: 0.007+/-0.000 $\chi^2$/NDF: 3885525.0/7

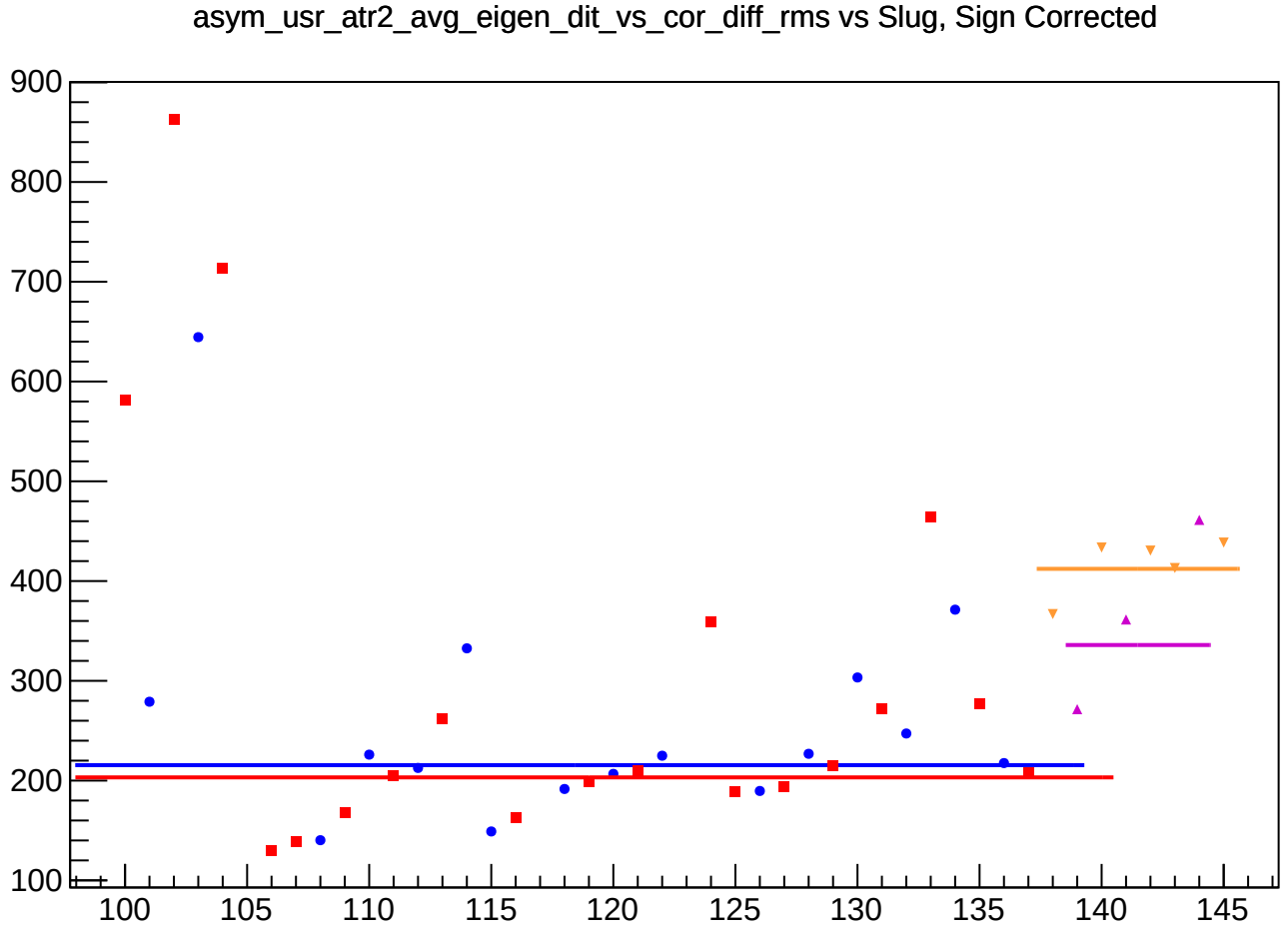
Right: 0.007+/-0.000 $\chi^2$/NDF: 12215563.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:7605776.4/18

Out: 0.006+/-0.000 $\chi^2$/NDF:8426978.9/23

All: 0.007+/-0.000 $\chi^2$/NDF: 16104115.1/42


asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
5
4
3
2
1
0
−1
100
105
110
115
120
125
130
135
140
145
Right In: -0.055+/-0.085 χ²/NDF: 10.7/15
Left Out: 0.522+/-0.218 χ²/NDF:2.4/4
Right Out: 0.114+/-0.083 χ²/NDF: 25.2/18
Left In: -0.079+/-0.215 χ²/NDF:8.5/2
Left: 0.216+/-0.153 χ²/NDF: 14.7/7
Right: 0.032+/-0.060 χ²/NDF: 37.9/34
In: -0.059+/-0.079 χ²/NDF:19.2/18
Out: 0.166+/-0.078 χ²/NDF:30.6/23
All: 0.056+/-0.056 χ²/NDF: 53.9/42




Right In: 215.518+/-0.060 $\chi^2$/NDF: 1148700.9/15

Left Out: 412.249+/-0.155 $\chi^2$/NDF:33735.0/4

Right Out: 203.205+/-0.059 $\chi^2$/NDF: 1835535.5/18

Left In: 335.891+/-0.152 $\chi^2$/NDF:229253.5/2

Left: 373.455+/-0.108 $\chi^2$/NDF: 387087.4/7

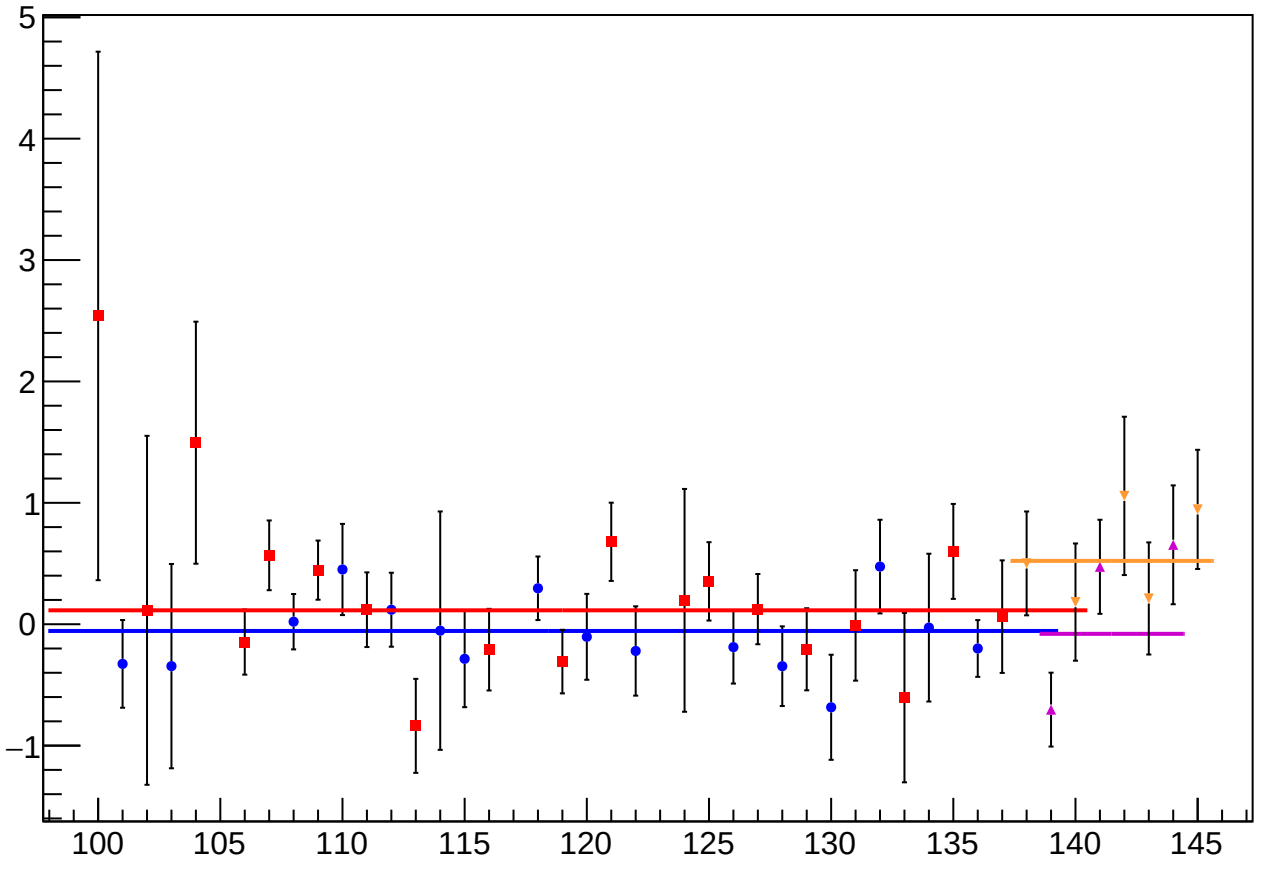
Right: 209.197+/-0.042 $\chi^2$/NDF: 3005542.9/34

In: 231.944+/-0.056 $\chi^2$/NDF:1919299.9/18

Out: 229.686+/-0.055 $\chi^2$/NDF:3468062.5/23

All: 230.791+/-0.039 $\chi^2$/NDF: 5388187.2/42

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: 0.522+/-0.218 $\chi^2$/NDF:2.4/4

Right Out: 0.114+/-0.083 $\chi^2$/NDF: 25.2/18

Left In: -0.079+/-0.215 $\chi^2$/NDF:8.5/2

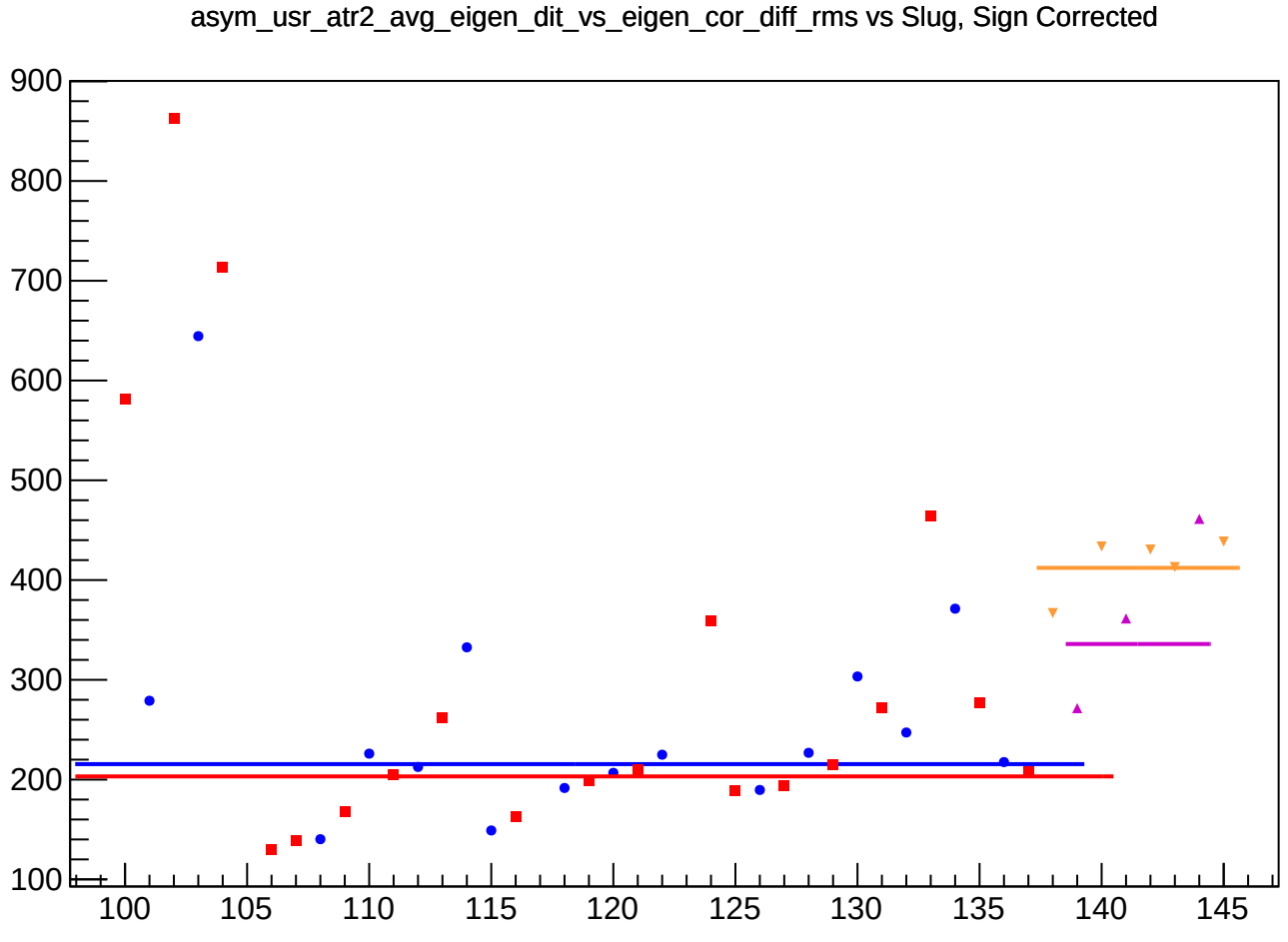
Left: 0.216+/-0.153 $\chi^2$/NDF: 14.7/7

Right: 0.032+/-0.060 $\chi^2$/NDF: 37.9/34

In: -0.059+/-0.079 $\chi^2$/NDF:19.2/18

Out: 0.166+/-0.078 $\chi^2$/NDF:30.6/23

All: 0.056+/-0.056 $\chi^2$/NDF: 53.9/42




Right In: 215.518+/-0.060 $\chi^2$/NDF: 1148700.9/15

Left Out: 412.249+/-0.155 $\chi^2$/NDF:33735.0/4

Right Out: 203.205+/-0.059 $\chi^2$/NDF: 1835535.5/18

Left In: 335.891+/-0.152 $\chi^2$/NDF:229253.5/2

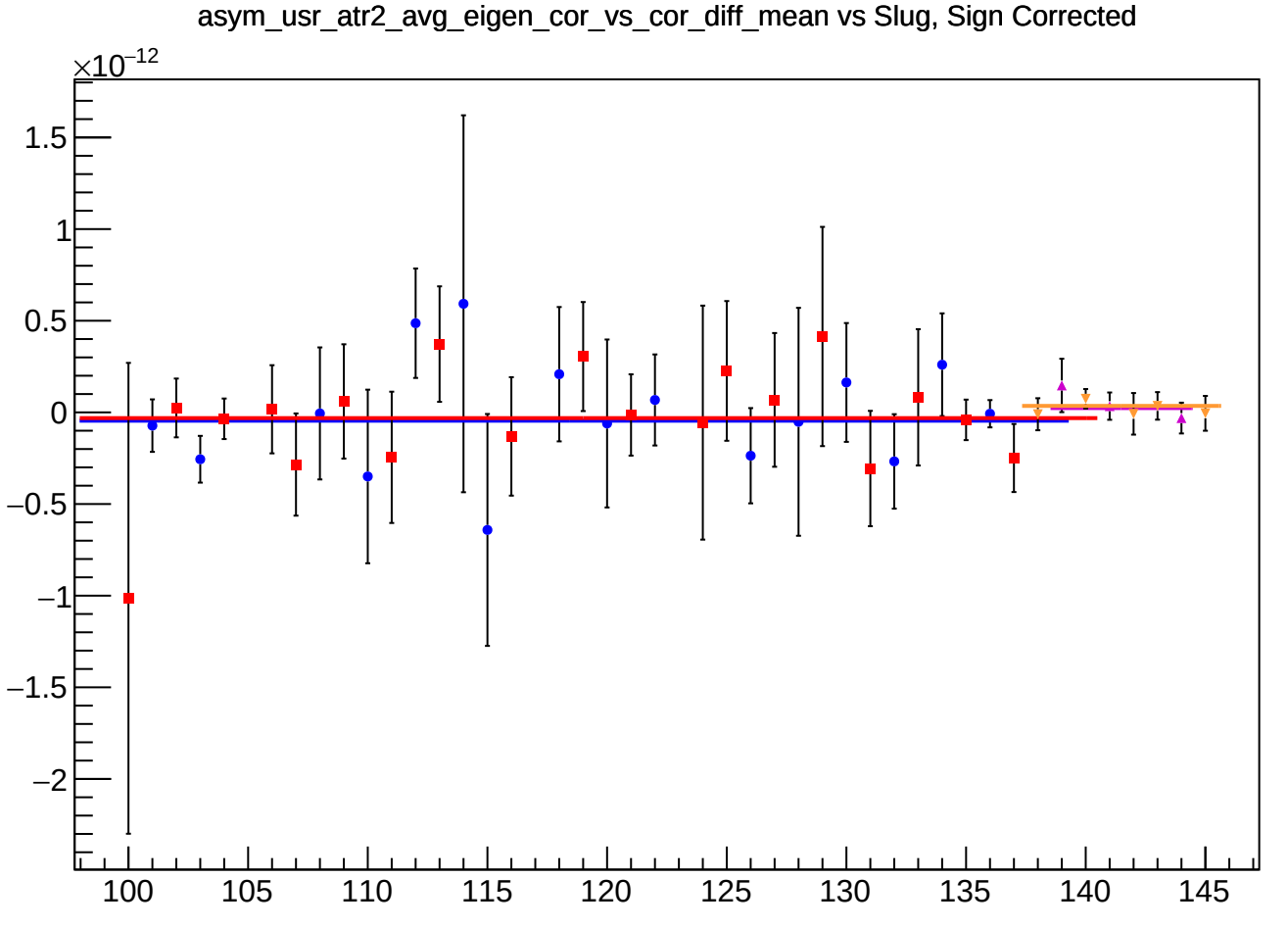
Left: 373.455+/-0.108 $\chi^2$/NDF: 387087.4/7

Right: 209.197+/-0.042 $\chi^2$/NDF: 3005542.9/34

In: 231.944+/-0.056 $\chi^2$/NDF:1919299.9/18

Out: 229.686+/-0.055 $\chi^2$/NDF:3468062.5/23

All: 230.791+/-0.039 $\chi^2$/NDF: 5388187.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.1/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 8.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.2/2

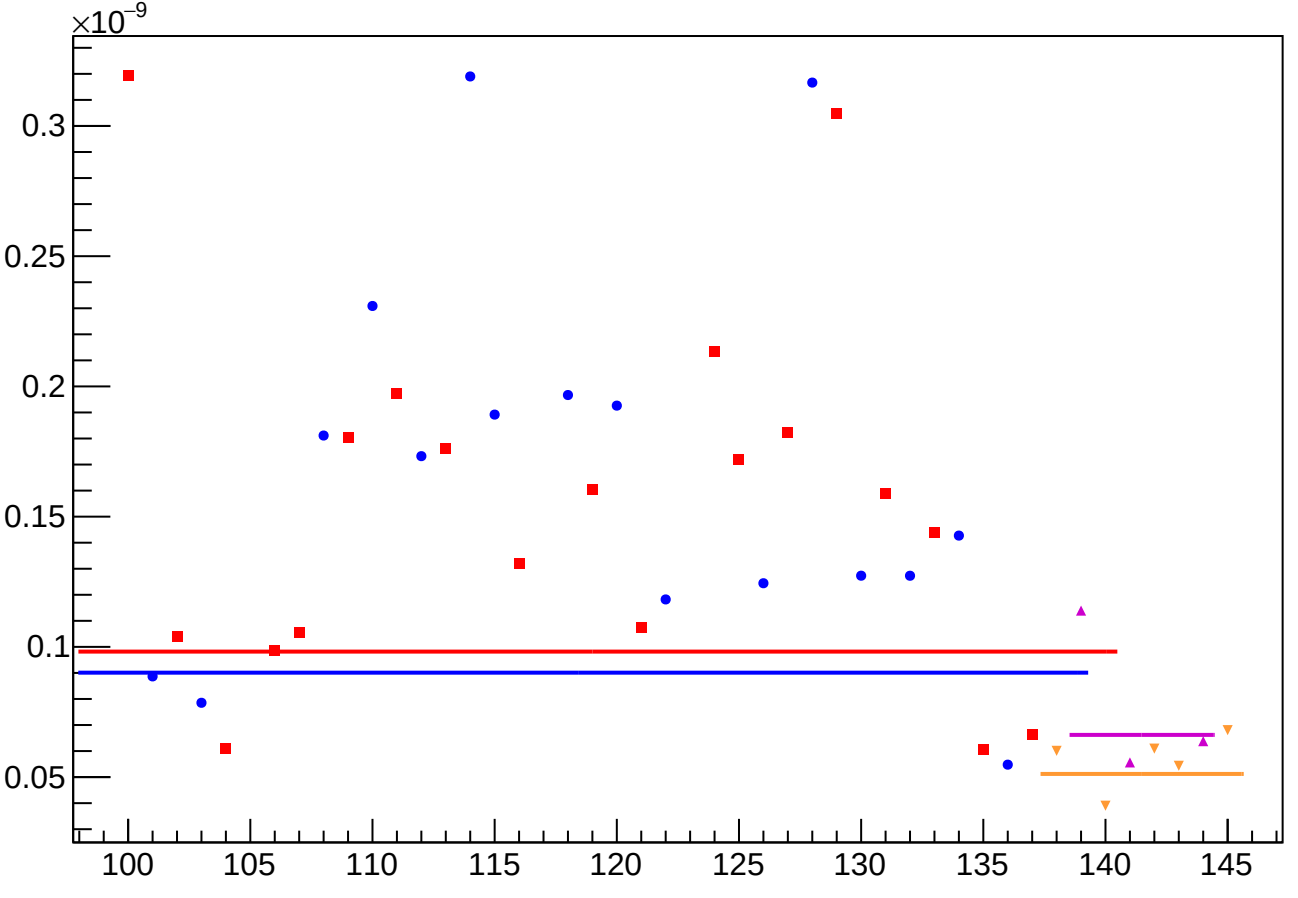
Left: 0.000+/-0.000 $\chi^2$/NDF: 2.3/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 19.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:13.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:10.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 24.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1808066.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:206959.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1694726.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:256560.0/2

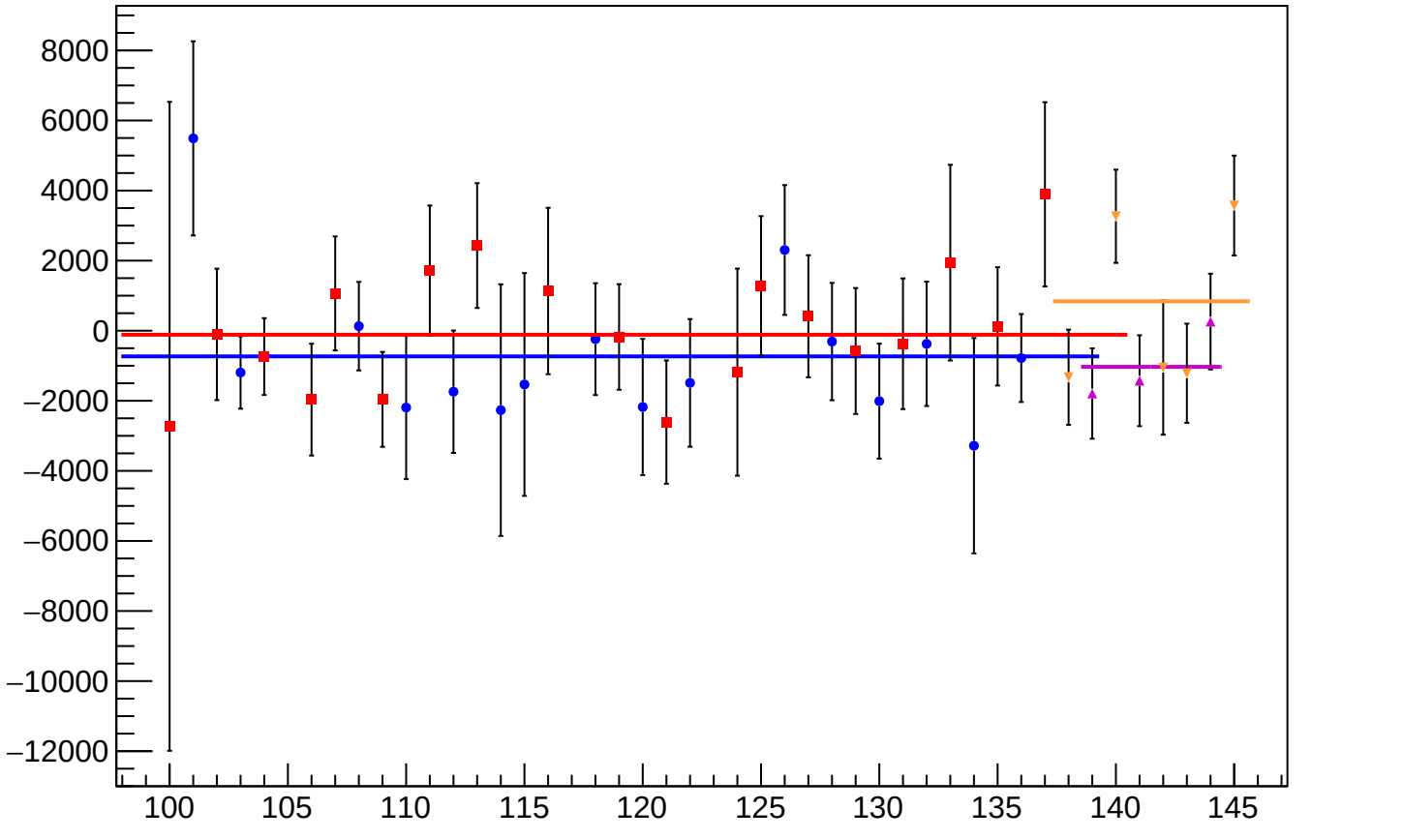
Left: 0.000+/-0.000 $\chi^2$/NDF: 579263.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3527917.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:2283985.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3036899.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5485898.1/42




Right In: -732.747+/-427.384 $\chi^2$/NDF: 11.7/15

Left Out: 840.007+/-649.446 $\chi^2$/NDF:12.6/4

Right Out: -115.040+/-411.437 $\chi^2$/NDF: 13.1/18

Left In: -1030.384+/-760.041 $\chi^2$/NDF:1.3/2

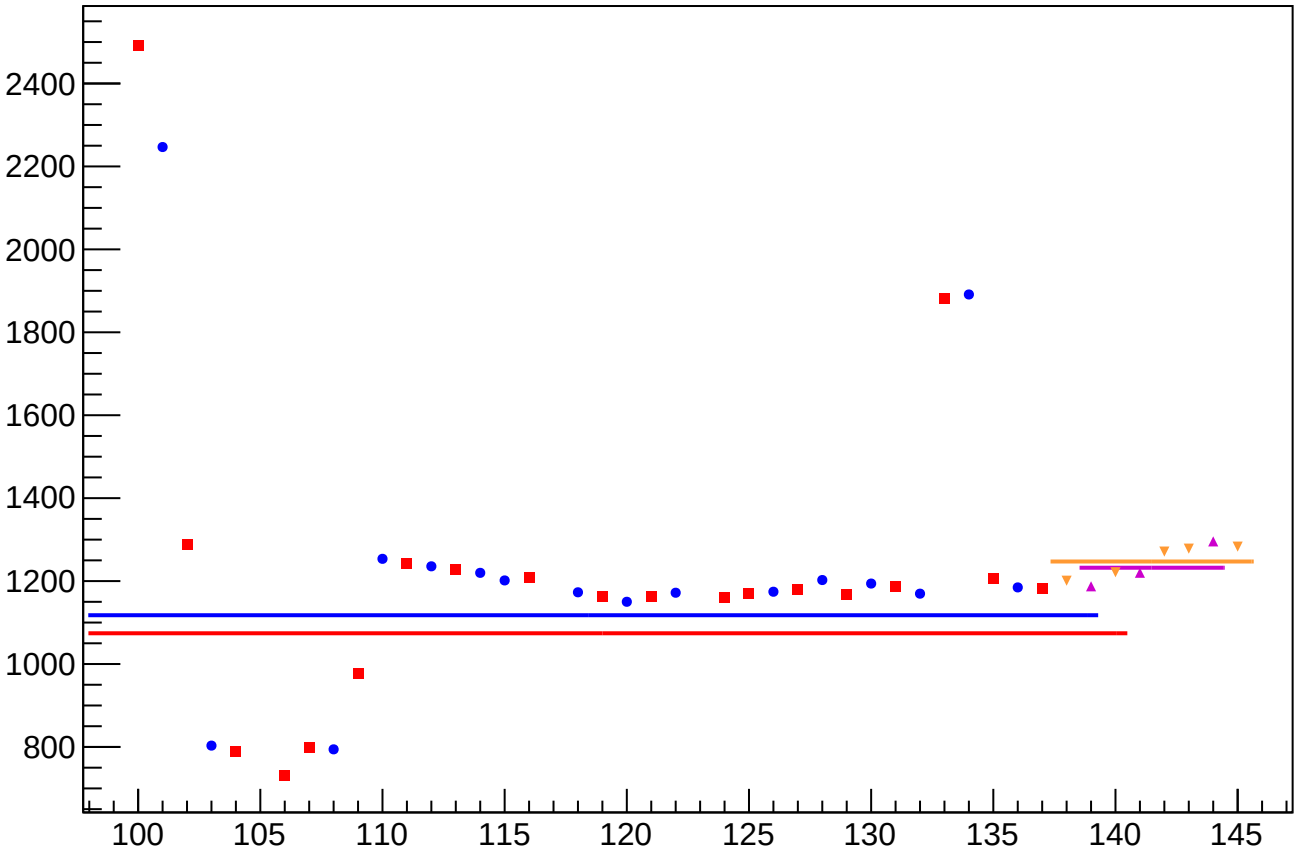
Left: 50.673+/-493.743 $\chi^2$/NDF: 17.5/7

Right: -412.155+/-296.407 $\chi^2$/NDF: 25.9/34

In: -804.251+/-372.527 $\chi^2$/NDF:13.2/18

Out: 158.487+/-347.561 $\chi^2$/NDF:27.3/23

All: -289.543+/-254.131 $\chi^2$/NDF: 44.0/42




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819835.1/15

Left Out: 1247.223+/-0.459 $\chi^2$/NDF:5619.0/4

Right Out: 1074.148+/-0.289 $\chi^2$/NDF: 649508.4/18

Left In: 1232.213+/-0.537 $\chi^2$/NDF:6911.6/2

Left: 1240.889+/-0.349 $\chi^2$/NDF: 12981.4/7

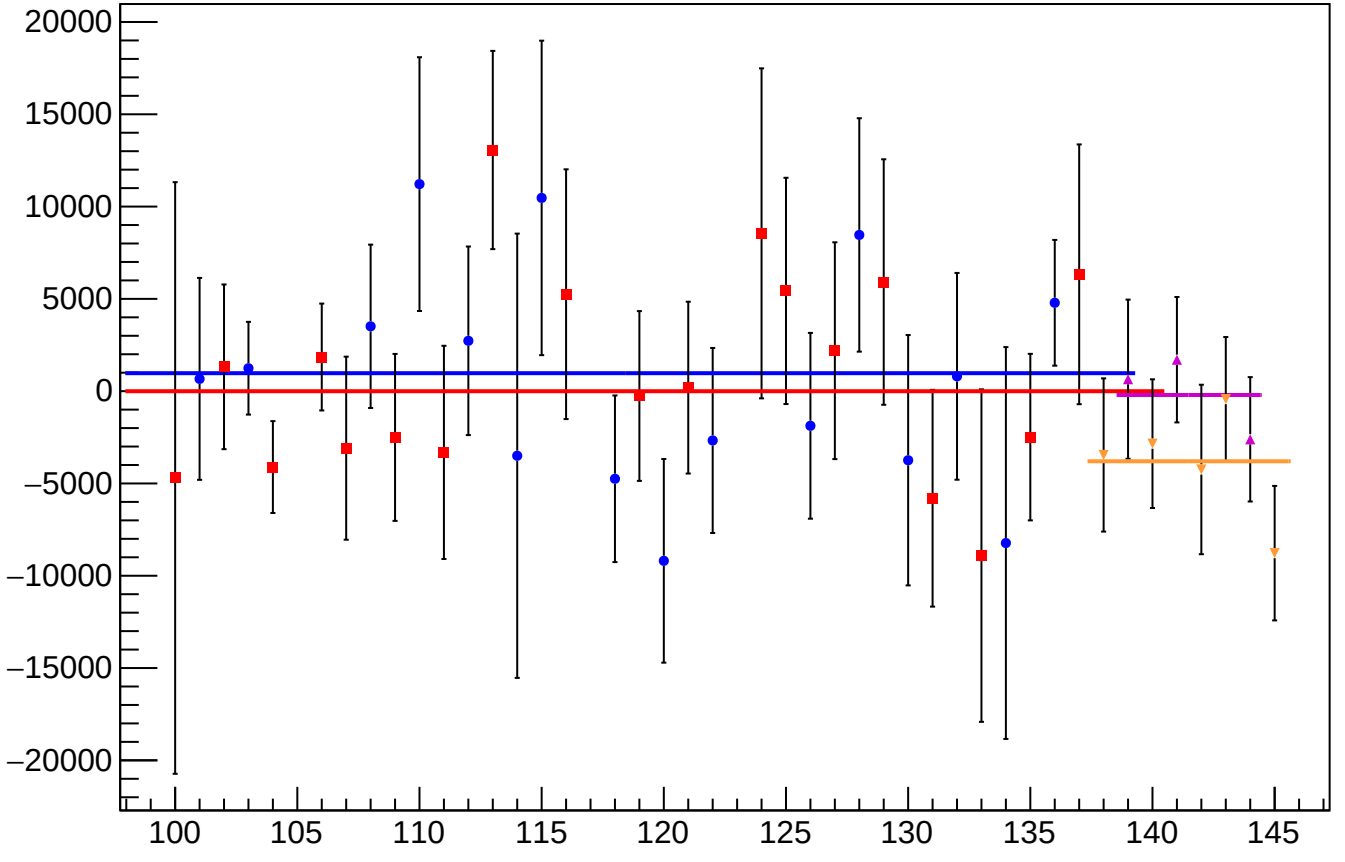
Right: 1094.908+/-0.209 $\chi^2$/NDF: 1480200.6/34

In: 1145.198+/-0.263 $\chi^2$/NDF:861250.4/18

Out: 1123.131+/-0.244 $\chi^2$/NDF:756968.8/23

All: 1133.335+/-0.179 $\chi^2$/NDF: 1621991.8/42

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: -3797.844+/-1686.475 $\chi^2$/NDF:3.0/4

Right Out: -2.885+/-1113.897 $\chi^2$/NDF: 16.6/18

Left In: -207.391+/-2091.776 $\chi^2$/NDF:0.9/2

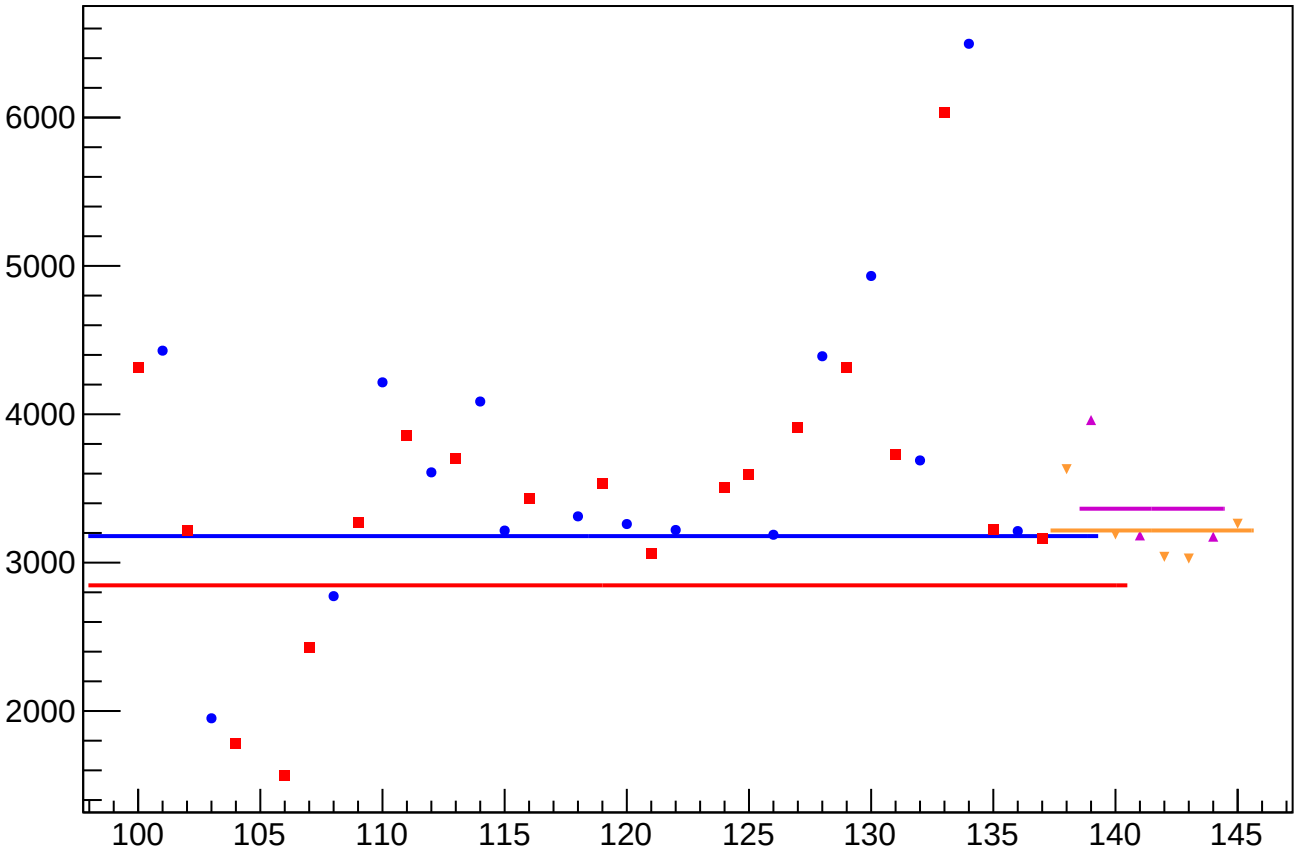
Left: -2383.392+/-1312.909 $\chi^2$/NDF: 5.6/7

Right: 436.095+/-826.478 $\chi^2$/NDF: 30.7/34

In: 669.276+/-1062.042 $\chi^2$/NDF:14.9/18

Out: -1155.566+/-929.460 $\chi^2$/NDF:23.1/23

All: -364.096+/-699.434 $\chi^2$/NDF: 39.6/42




Right In: 3178.870+/-0.872 $\chi^2$/NDF: 1091676.8/15

Left Out: 3216.769+/-1.193 $\chi^2$/NDF:29565.1/4

Right Out: 2847.016+/-0.788 $\chi^2$/NDF: 1511160.9/18

Left In: 3363.432+/-1.479 $\chi^2$/NDF:50284.7/2

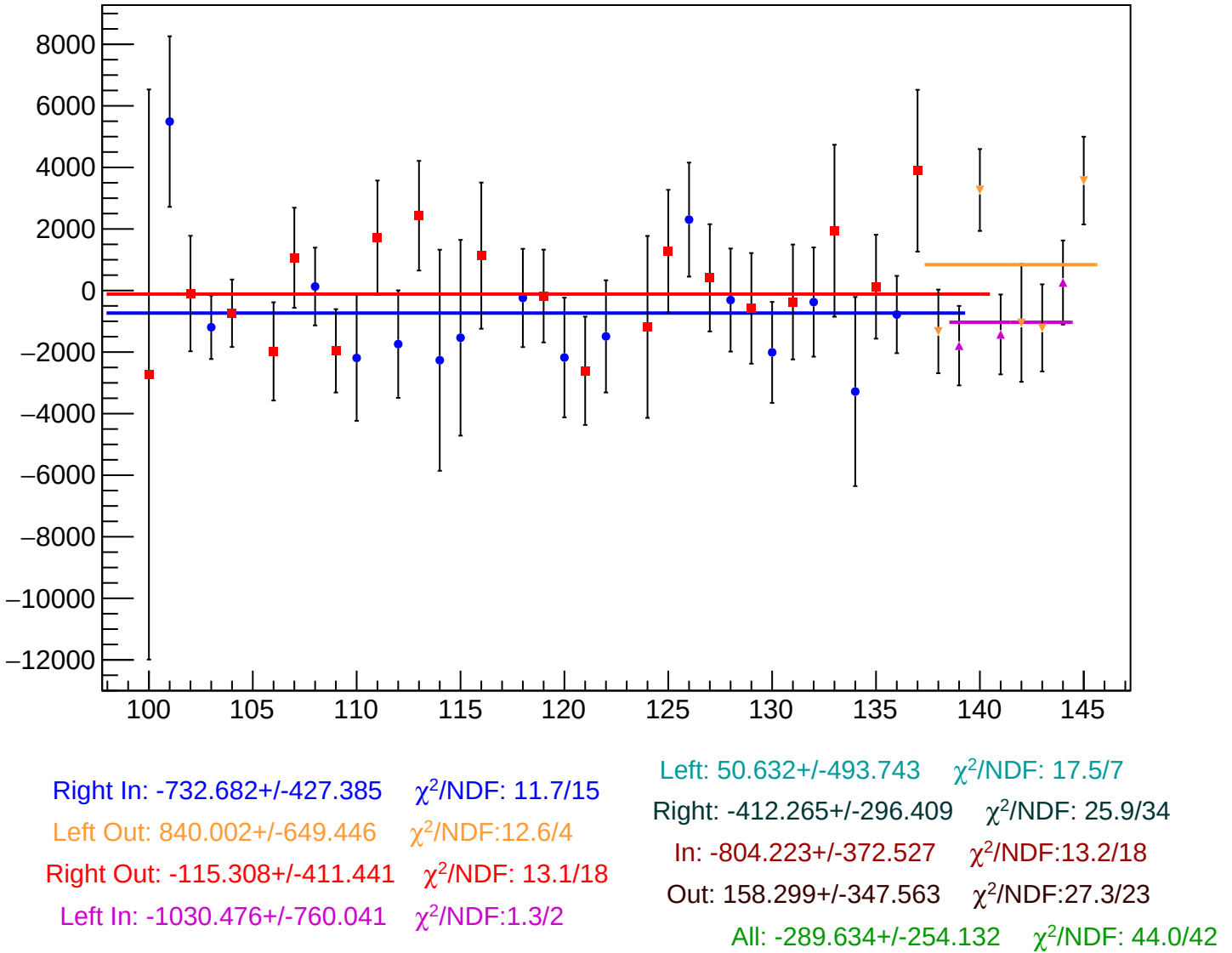
Left: 3274.546+/-0.928 $\chi^2$/NDF: 85808.5/7

Right: 2996.178+/-0.584 $\chi^2$/NDF: 2682627.1/34

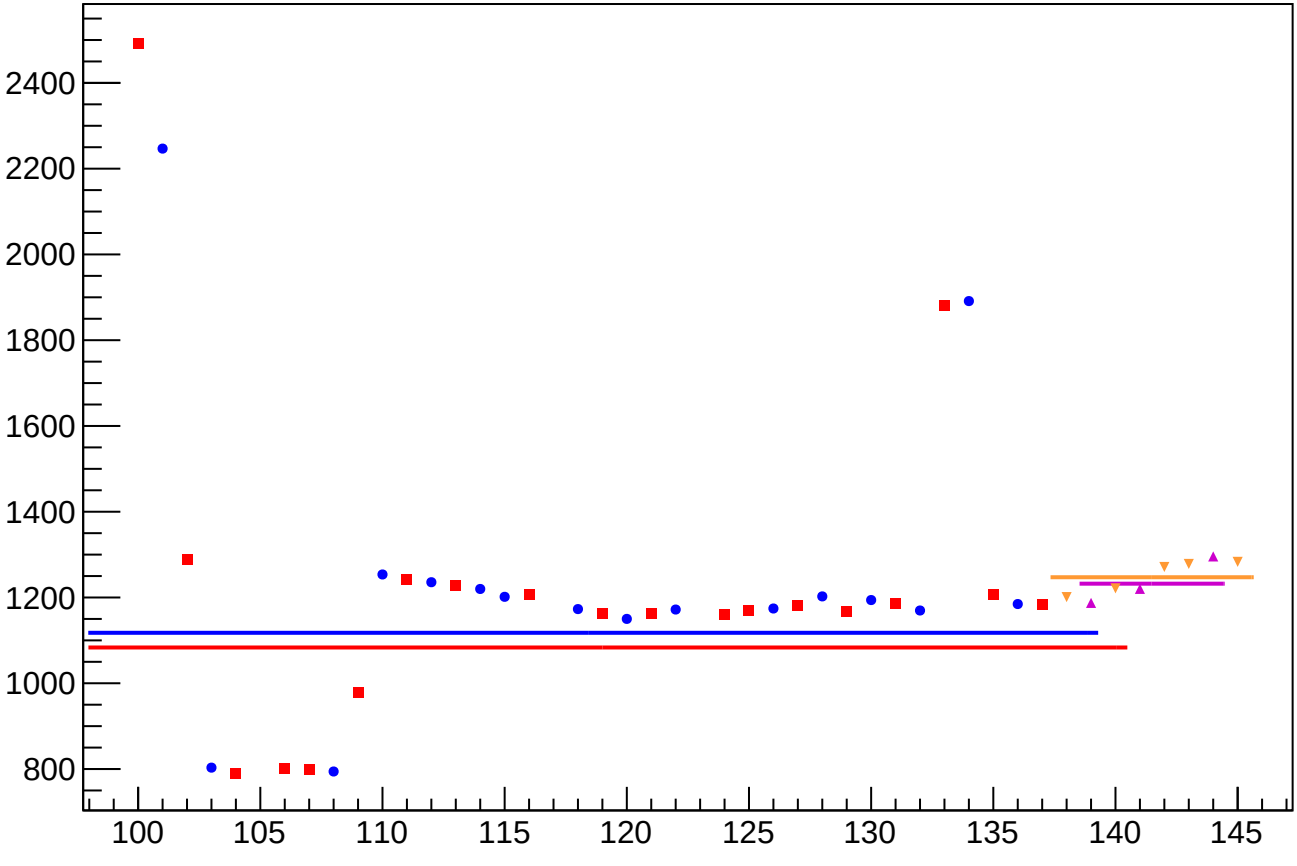
In: 3226.447+/-0.751 $\chi^2$/NDF:1153517.8/18

Out: 2959.325+/-0.657 $\chi^2$/NDF:1607662.7/23

All: 3075.181+/-0.495 $\chi^2$/NDF: 2832827.4/42


cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
105
110
115
120
125
130
135
140
145
Right In: -732.682+/-427.385 χ²/NDF: 11.7/15
Left Out: 840.002+/-649.446 χ²/NDF:12.6/4
Right Out: -115.308+/-411.441 χ²/NDF: 13.1/18
Left In: -1030.476+/-760.041 χ²/NDF:1.3/2
Left: 50.632+/-493.743 χ²/NDF: 17.5/7
Right: -412.265+/-296.409 χ²/NDF: 25.9/34
In: -804.223+/-372.527 χ²/NDF:13.2/18
Out: 158.299+/-347.563 χ²/NDF:27.3/23
All: -289.634+/-254.132 χ²/NDF: 44.0/42

# cor_asym_usr_atr2_dd_rms vs Slug, Sign Corrected




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819831.7/15

Left Out: 1247.223+/-0.459 $\chi^2$/NDF:5619.0/4

Right Out: 1083.421+/-0.290 $\chi^2$/NDF: 595016.7/18

Left In: 1232.213+/-0.537 $\chi^2$/NDF:6911.6/2

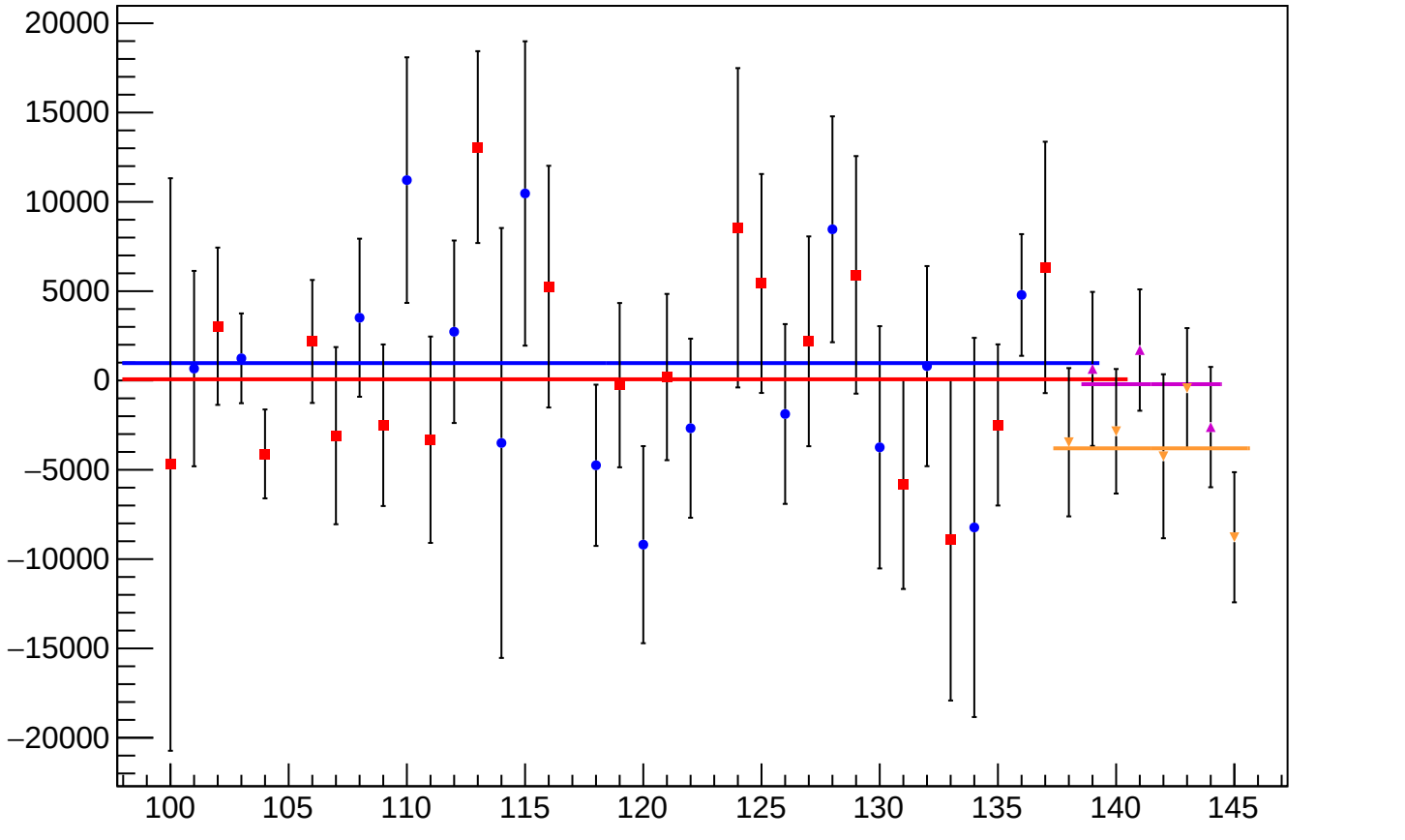
Left: 1240.889+/-0.349 $\chi^2$/NDF: 12981.4/7

Right: 1099.869+/-0.209 $\chi^2$/NDF: 1421532.1/34

In: 1145.198+/-0.263 $\chi^2$/NDF:861246.6/18

Out: 1130.206+/-0.245 $\chi^2$/NDF:691525.2/23

All: 1137.173+/-0.180 $\chi^2$/NDF: 1554505.9/42




Right In: 973.256+/-1232.803 $\chi^2$/NDF: 13.8/15

Left Out: -3797.782+/-1686.469 $\chi^2$/NDF:3.0/4

Right Out: 67.113+/-1137.892 $\chi^2$/NDF: 16.9/18

Left In: -207.481+/-2091.773 $\chi^2$/NDF:0.9/2

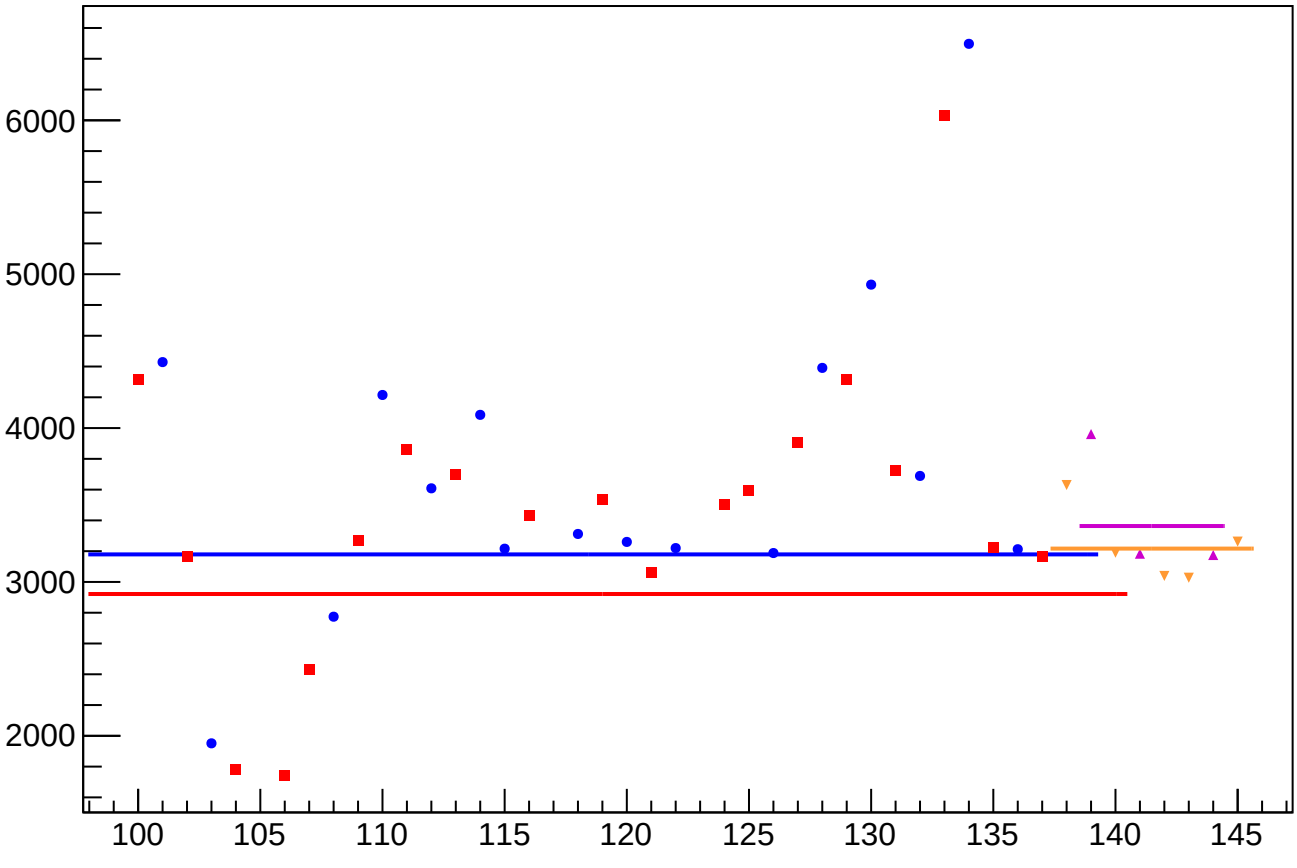
Left: -2383.393+/-1312.906 $\chi^2$/NDF: 5.6/7

Right: 483.965+/-836.154 $\chi^2$/NDF: 31.0/34

In: 668.864+/-1062.074 $\chi^2$/NDF:14.9/18

Out: -1141.944+/-943.263 $\chi^2$/NDF:23.5/23

All: -343.450+/-705.268 $\chi^2$/NDF: 40.0/42




Right In: 3179.054+/-0.872 $\chi^2$/NDF: 1091236.5/15

Left Out: 3216.757+/-1.193 $\chi^2$/NDF:29566.3/4

Right Out: 2921.641+/-0.805 $\chi^2$/NDF: 1312890.1/18

Left In: 3363.427+/-1.479 $\chi^2$/NDF:50285.4/2

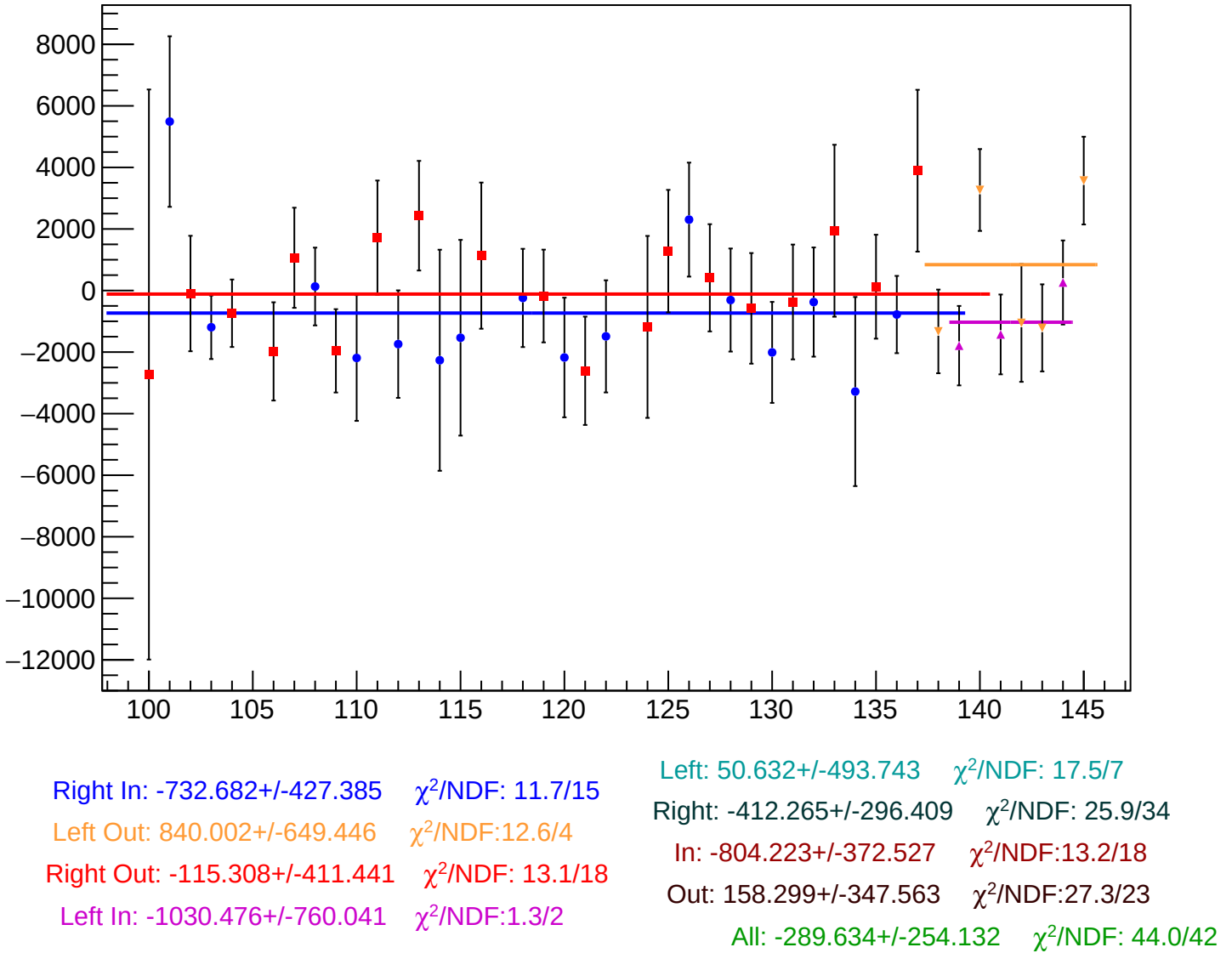
Left: 3274.537+/-0.928 $\chi^2$/NDF: 85811.0/7

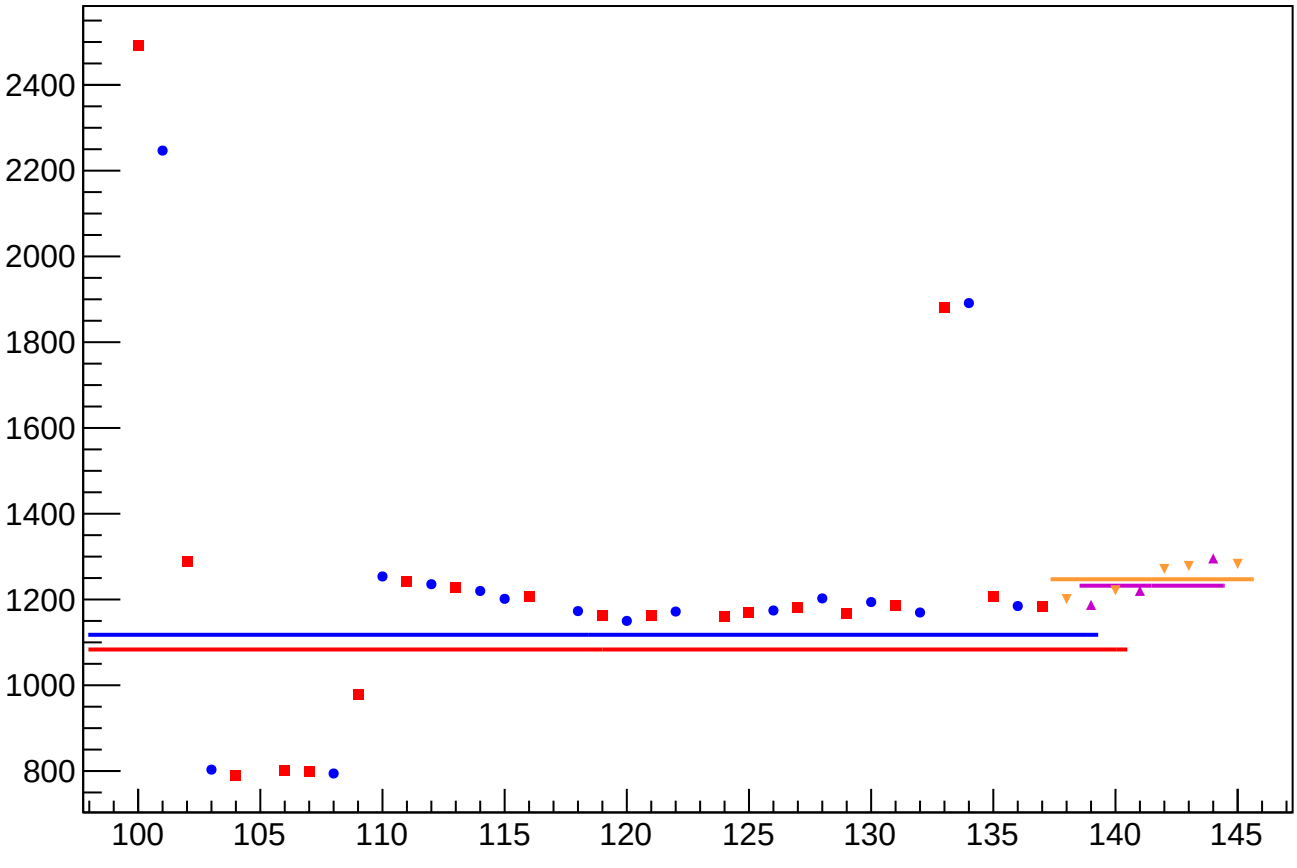
Right: 3040.058+/-0.591 $\chi^2$/NDF: 2451210.8/34

In: 3226.585+/-0.751 $\chi^2$/NDF:1153054.2/18

Out: 3013.962+/-0.667 $\chi^2$/NDF:1384540.9/23

All: 3107.720+/-0.499 $\chi^2$/NDF: 2582406.0/42


eigen_cor_asym_usr_atr2_dd_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
105
110
115
120
125
130
135
140
145
Right In: -732.682+/-427.385 χ²/NDF: 11.7/15
Left Out: 840.002+/-649.446 χ²/NDF:12.6/4
Right Out: -115.308+/-411.441 χ²/NDF: 13.1/18
Left In: -1030.476+/-760.041 χ²/NDF:1.3/2
Left: 50.632+/-493.743 χ²/NDF: 17.5/7
Right: -412.265+/-296.409 χ²/NDF: 25.9/34
In: -804.223+/-372.527 χ²/NDF:13.2/18
Out: 158.299+/-347.563 χ²/NDF:27.3/23
All: -289.634+/-254.132 χ²/NDF: 44.0/42




Right In: 1117.684+/-0.302 $\chi^2$/NDF: 819831.7/15

Left Out: 1247.223+/-0.459 $\chi^2$/NDF:5619.0/4

Right Out: 1083.421+/-0.290 $\chi^2$/NDF: 595016.7/18

Left In: 1232.213+/-0.537 $\chi^2$/NDF:6911.6/2

Left: 1240.889+/-0.349 $\chi^2$/NDF: 12981.4/7

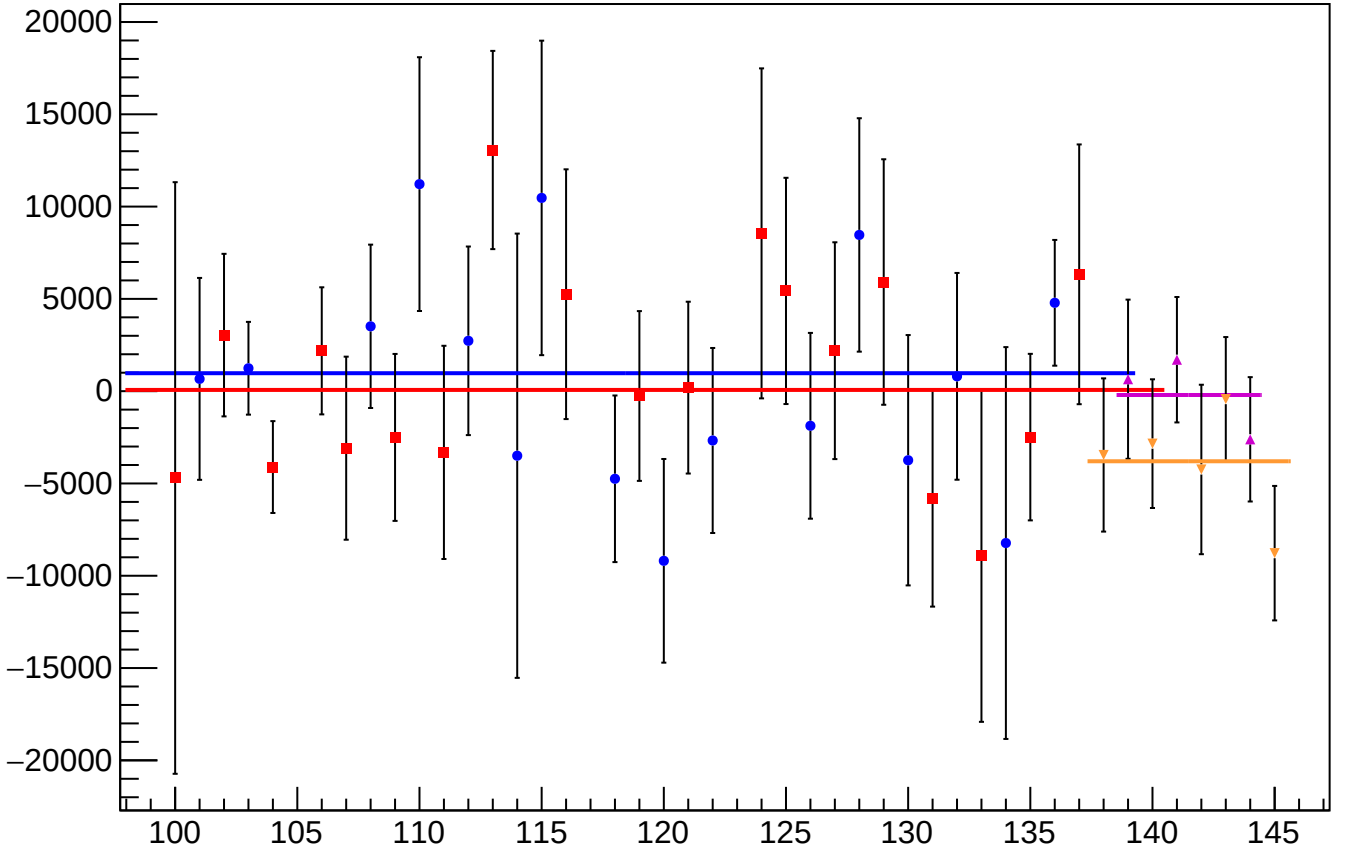
Right: 1099.869+/-0.209 $\chi^2$/NDF: 1421532.1/34

In: 1145.198+/-0.263 $\chi^2$/NDF:861246.6/18

Out: 1130.206+/-0.245 $\chi^2$/NDF:691525.2/23

All: 1137.173+/-0.180 $\chi^2$/NDF: 1554505.9/42

asym_usr_atr2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 973.256+/-1232.803 $\chi^2$/NDF: 13.8/15

Left Out: -3797.782+/-1686.469 $\chi^2$/NDF:3.0/4

Right Out: 67.113+/-1137.892 $\chi^2$/NDF: 16.9/18

Left In: -207.481+/-2091.773 $\chi^2$/NDF:0.9/2

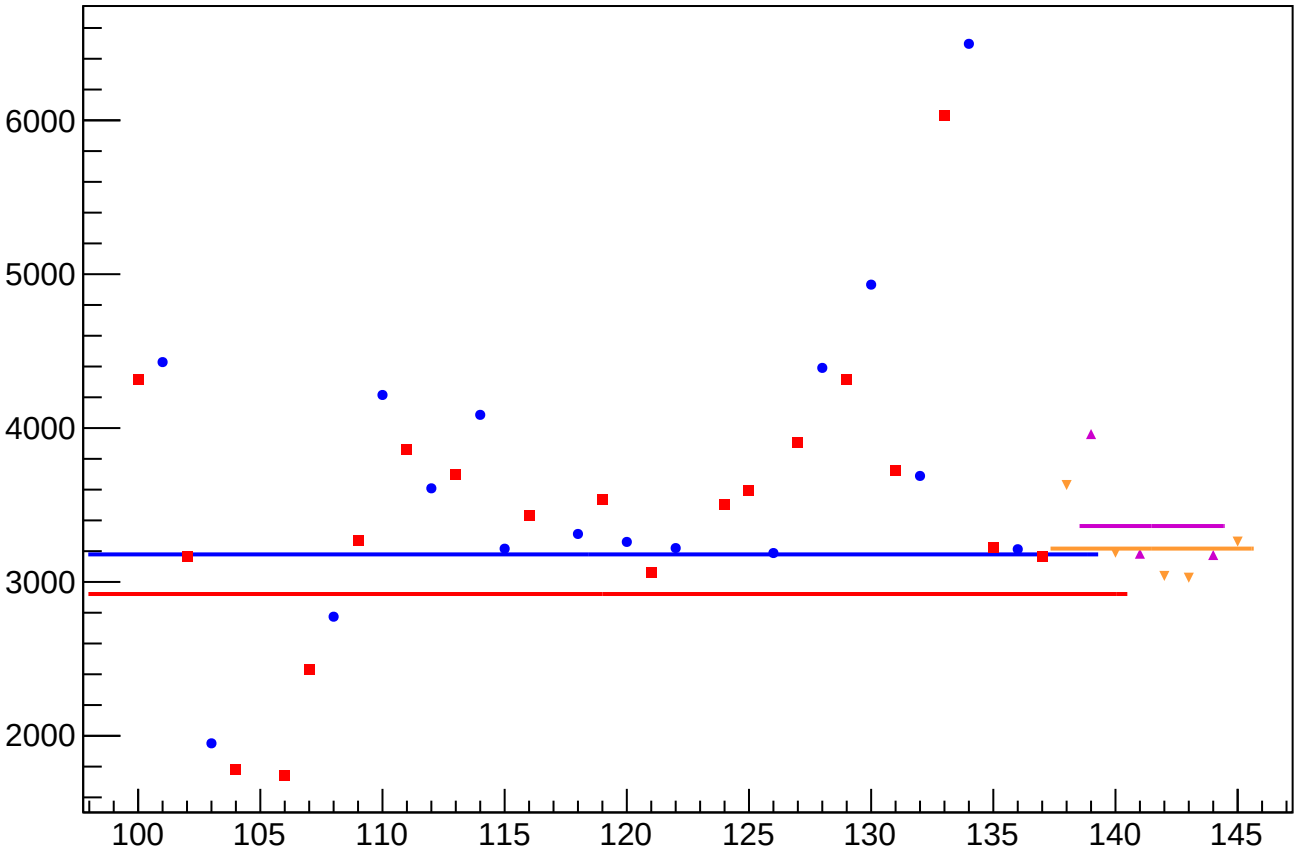
Left: -2383.393+/-1312.906 $\chi^2$/NDF: 5.6/7

Right: 483.965+/-836.154 $\chi^2$/NDF: 31.0/34

In: 668.864+/-1062.074 $\chi^2$/NDF:14.9/18

Out: -1141.944+/-943.263 $\chi^2$/NDF:23.5/23

All: -343.450+/-705.268 $\chi^2$/NDF: 40.0/42




Right In: 3179.054+/-0.872 $\chi^2$/NDF: 1091236.5/15

Left Out: 3216.757+/-1.193 $\chi^2$/NDF:29566.3/4

Right Out: 2921.641+/-0.805 $\chi^2$/NDF: 1312890.1/18

Left In: 3363.427+/-1.479 $\chi^2$/NDF:50285.4/2

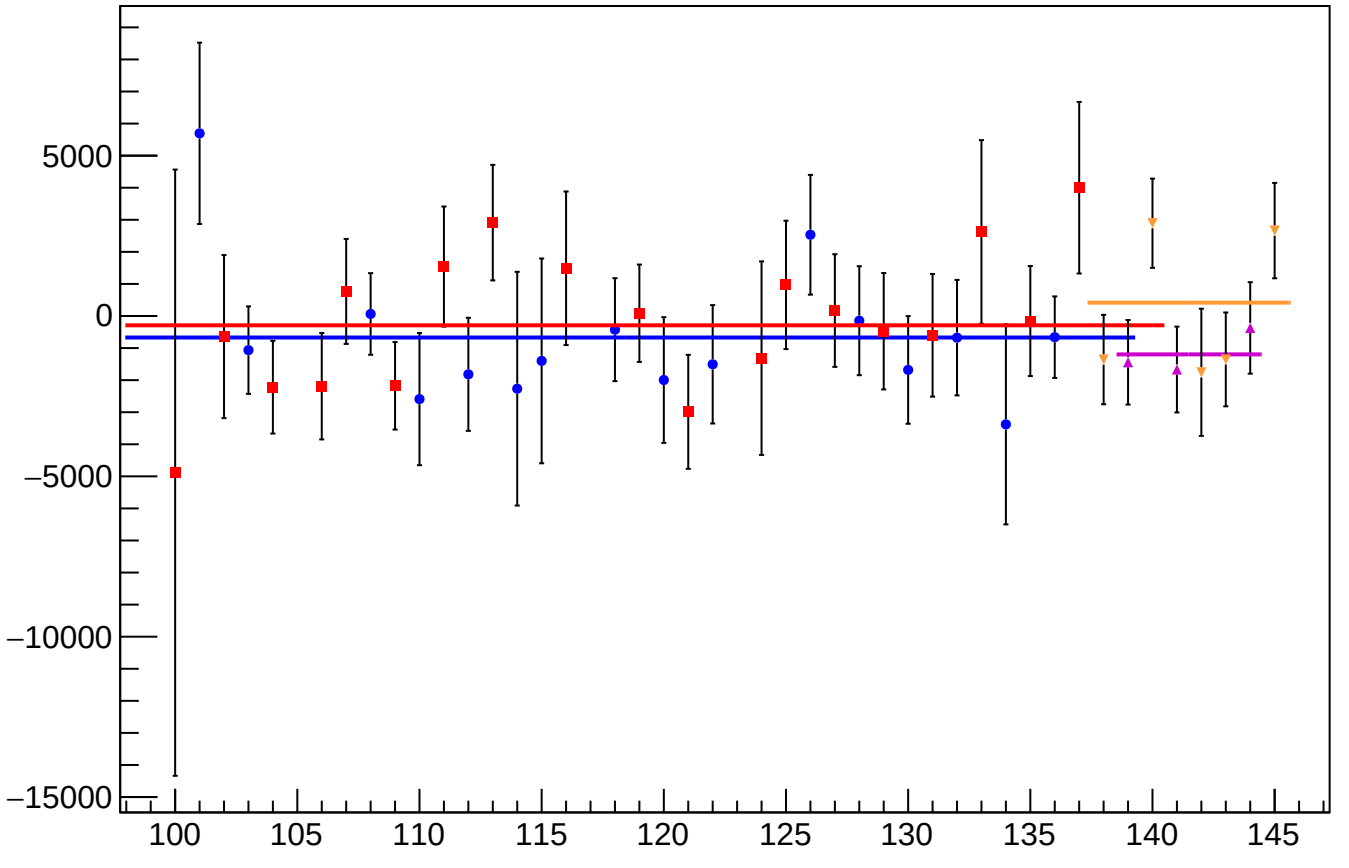
Left: 3274.537+/-0.928 $\chi^2$/NDF: 85811.0/7

Right: 3040.058+/-0.591 $\chi^2$/NDF: 2451210.8/34

In: 3226.585+/-0.751 $\chi^2$/NDF:1153054.2/18

Out: 3013.962+/-0.667 $\chi^2$/NDF:1384540.9/23

All: 3107.720+/-0.499 $\chi^2$/NDF: 2582406.0/42




Right In: -670.819+/-448.500 $\chi^2$/NDF: 11.9/15

Left Out: 417.128+/-673.444 $\chi^2$/NDF:9.7/4

Right Out: -290.311+/-434.425 $\chi^2$/NDF: 16.9/18

Left In: -1196.910+/-784.458 $\chi^2$/NDF:0.5/2

Left: -267.697+/-510.978 $\chi^2$/NDF: 12.7/7

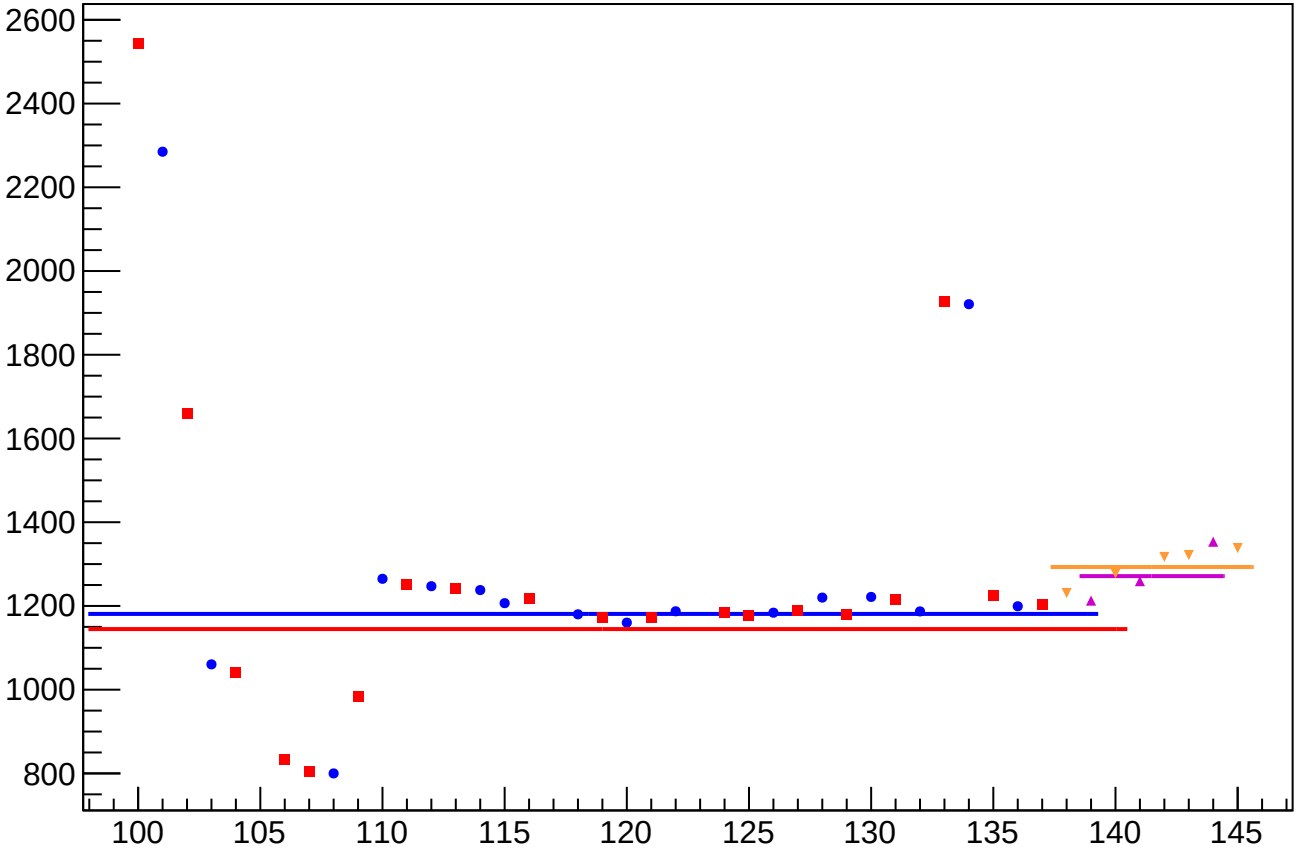
Right: -474.501+/-312.042 $\chi^2$/NDF: 29.2/34

In: -800.422+/-389.356 $\chi^2$/NDF:12.7/18

Out: -82.431+/-365.059 $\chi^2$/NDF:27.5/23

All: -418.327+/-266.311 $\chi^2$/NDF: 42.0/42

# dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected




Right In: 1180.955+/-0.317 $\chi^2$/NDF: 621878.6/15

Left Out: 1293.009+/-0.476 $\chi^2$/NDF:7118.7/4

Right Out: 1144.777+/-0.307 $\chi^2$/NDF: 497730.6/18

Left In: 1271.261+/-0.555 $\chi^2$/NDF:10735.4/2

Left: 1283.782+/-0.361 $\chi^2$/NDF: 18739.2/7

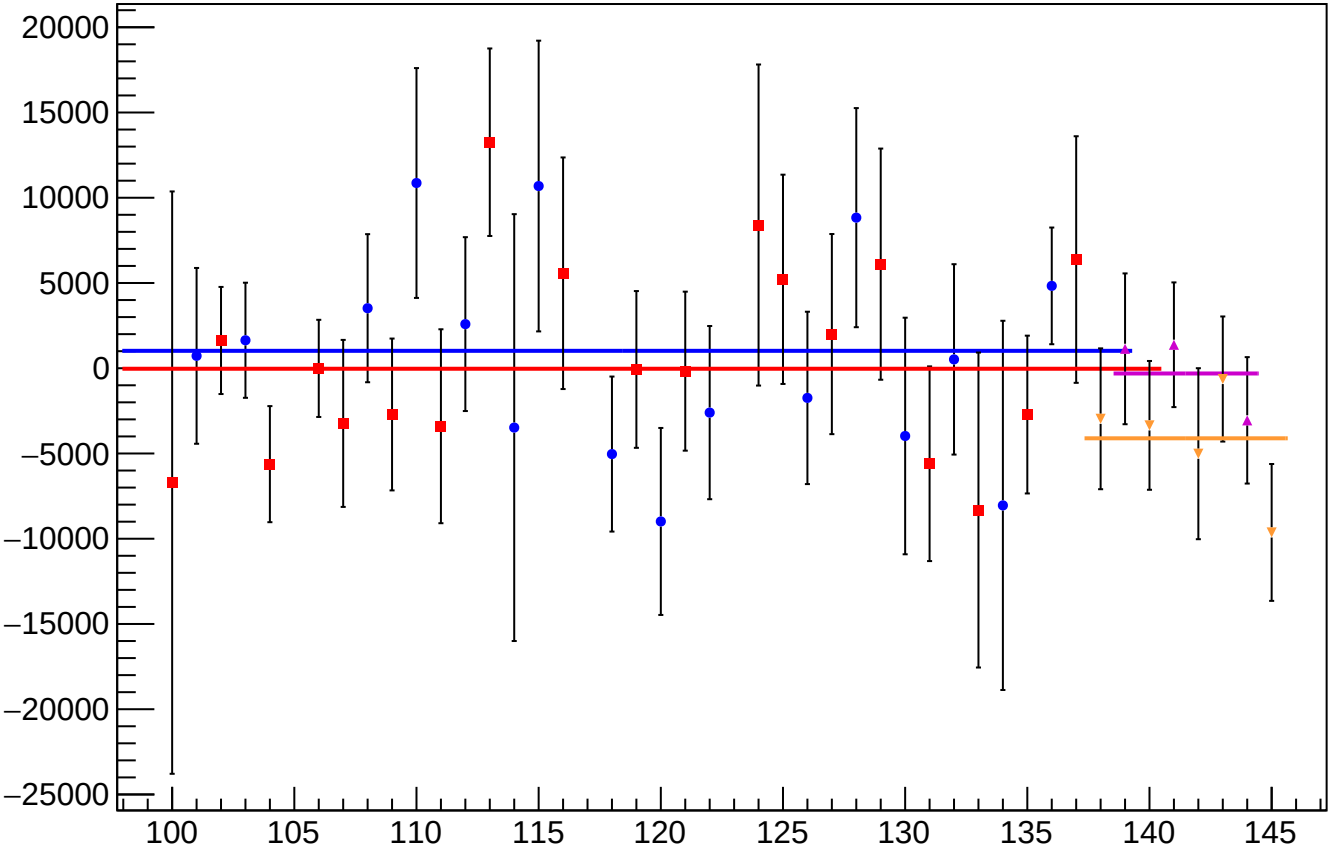
Right: 1162.281+/-0.221 $\chi^2$/NDF: 1126326.7/34

In: 1203.202+/-0.275 $\chi^2$/NDF:652589.3/18

Out: 1188.307+/-0.258 $\chi^2$/NDF:573292.4/23

All: 1195.273+/-0.188 $\chi^2$/NDF: 1227439.9/42

asym_usr_atr2_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 1021.047+/-1302.431 $\chi^2$/NDF: 13.9/15

Left Out: -4109.834+/-1811.189 $\chi^2$/NDF:2.9/4

Right Out: -30.135+/-1130.743 $\chi^2$/NDF: 16.1/18

Left In: -307.803+/-2243.746 $\chi^2$/NDF:0.9/2

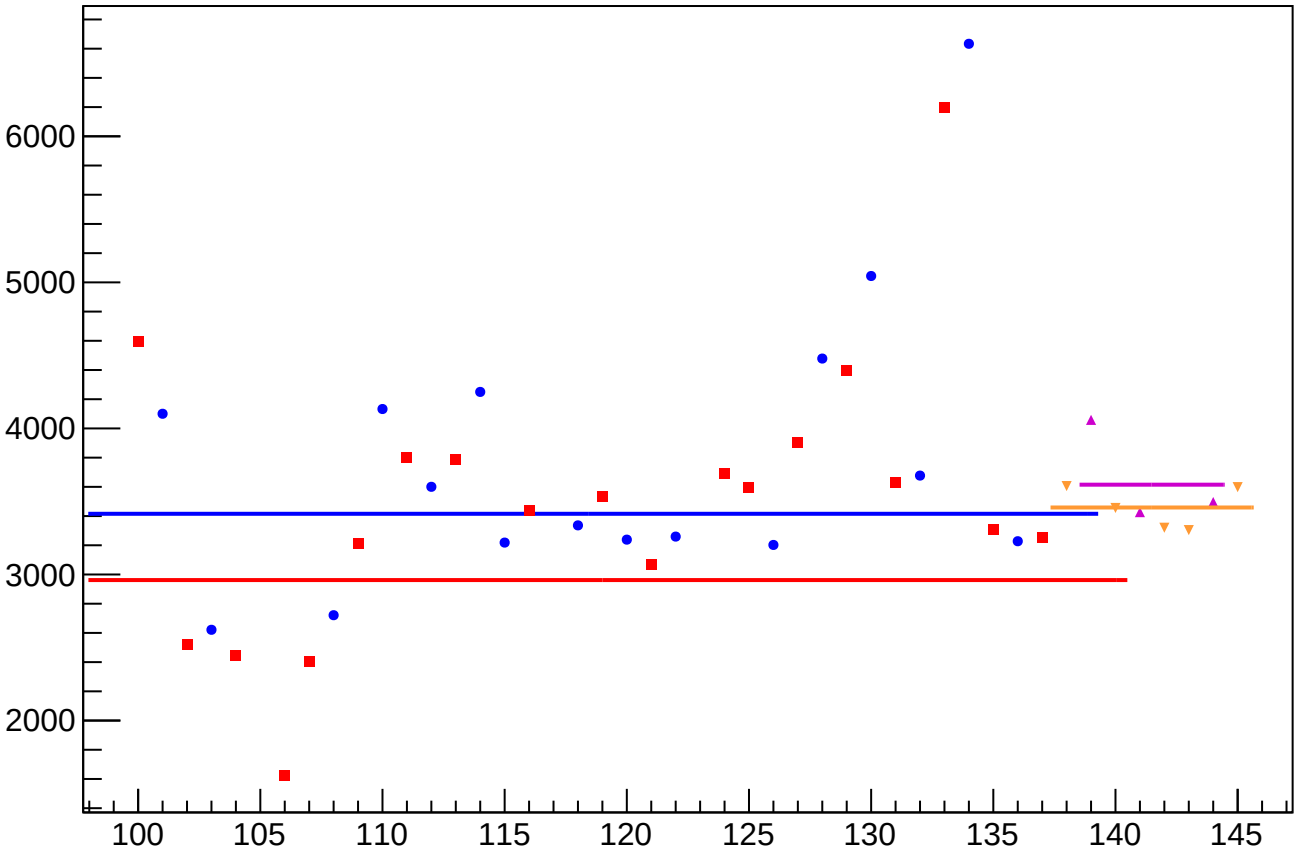
Left: -2609.833+/-1409.326 $\chi^2$/NDF: 5.5/7

Right: 421.650+/-853.851 $\chi^2$/NDF: 30.4/34

In: 686.141+/-1126.413 $\chi^2$/NDF:15.0/18

Out: -1174.297+/-959.165 $\chi^2$/NDF:22.7/23

All: -392.318+/-730.277 $\chi^2$/NDF: 39.3/42




Right In: 3415.595+/-0.921 $\chi^2$/NDF: 592344.0/15

Left Out: 3458.688+/-1.281 $\chi^2$/NDF:10019.6/4

Right Out: 2961.798+/-0.800 $\chi^2$/NDF: 1169257.4/18

Left In: 3614.858+/-1.587 $\chi^2$/NDF:27473.4/2

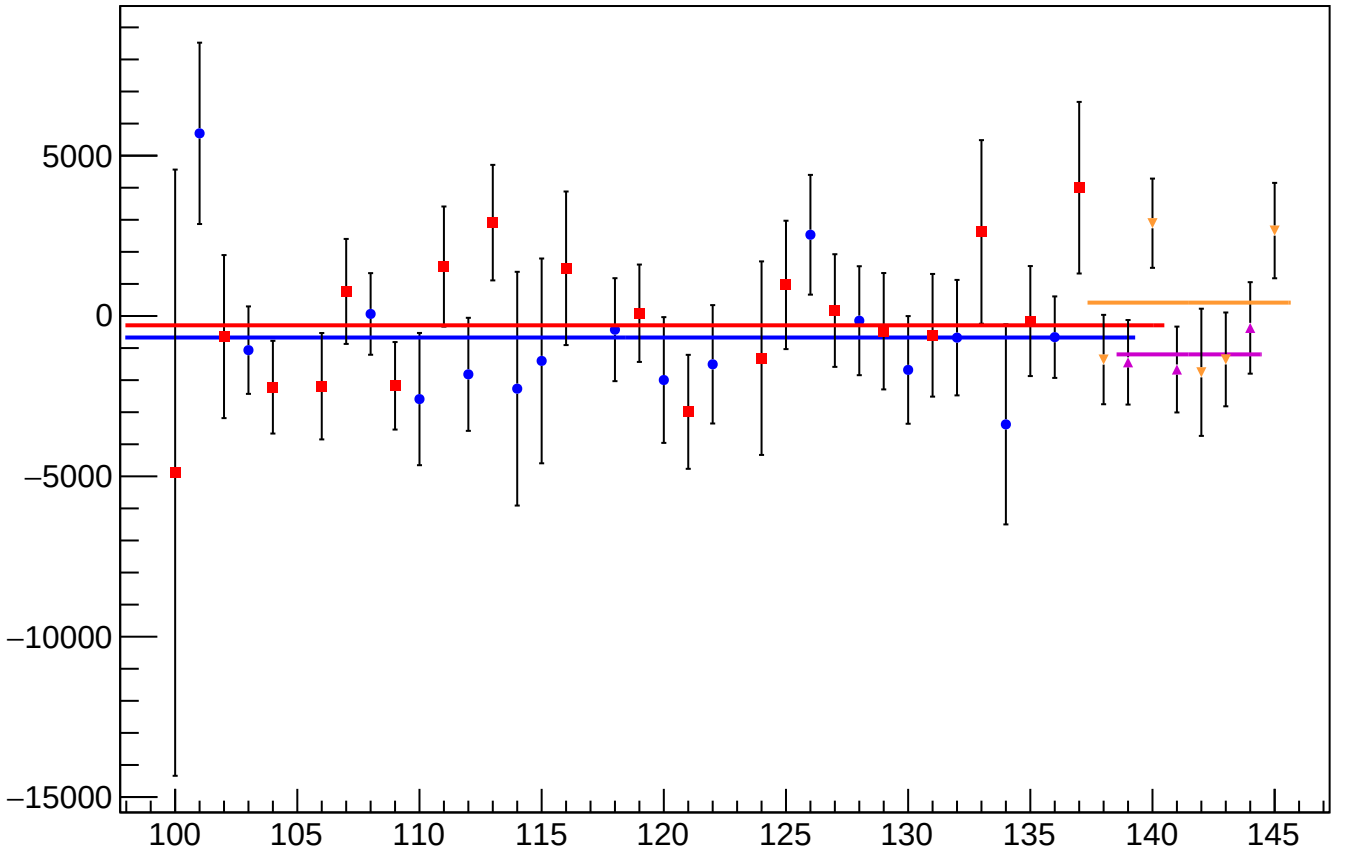
Left: 3520.302+/-0.997 $\chi^2$/NDF: 43359.4/7

Right: 3156.834+/-0.604 $\chi^2$/NDF: 1900046.9/34

In: 3465.815+/-0.796 $\chi^2$/NDF:631615.8/18

Out: 3101.152+/-0.678 $\chi^2$/NDF:1287590.5/23

All: 3254.427+/-0.516 $\chi^2$/NDF: 2040714.3/42




Right In: -670.824+/-448.500 $\chi^2$/NDF: 11.9/15

Left Out: 417.126+/-673.445 $\chi^2$/NDF:9.7/4

Right Out: -290.316+/-434.425 $\chi^2$/NDF: 16.9/18

Left In: -1196.901+/-784.458 $\chi^2$/NDF:0.5/2

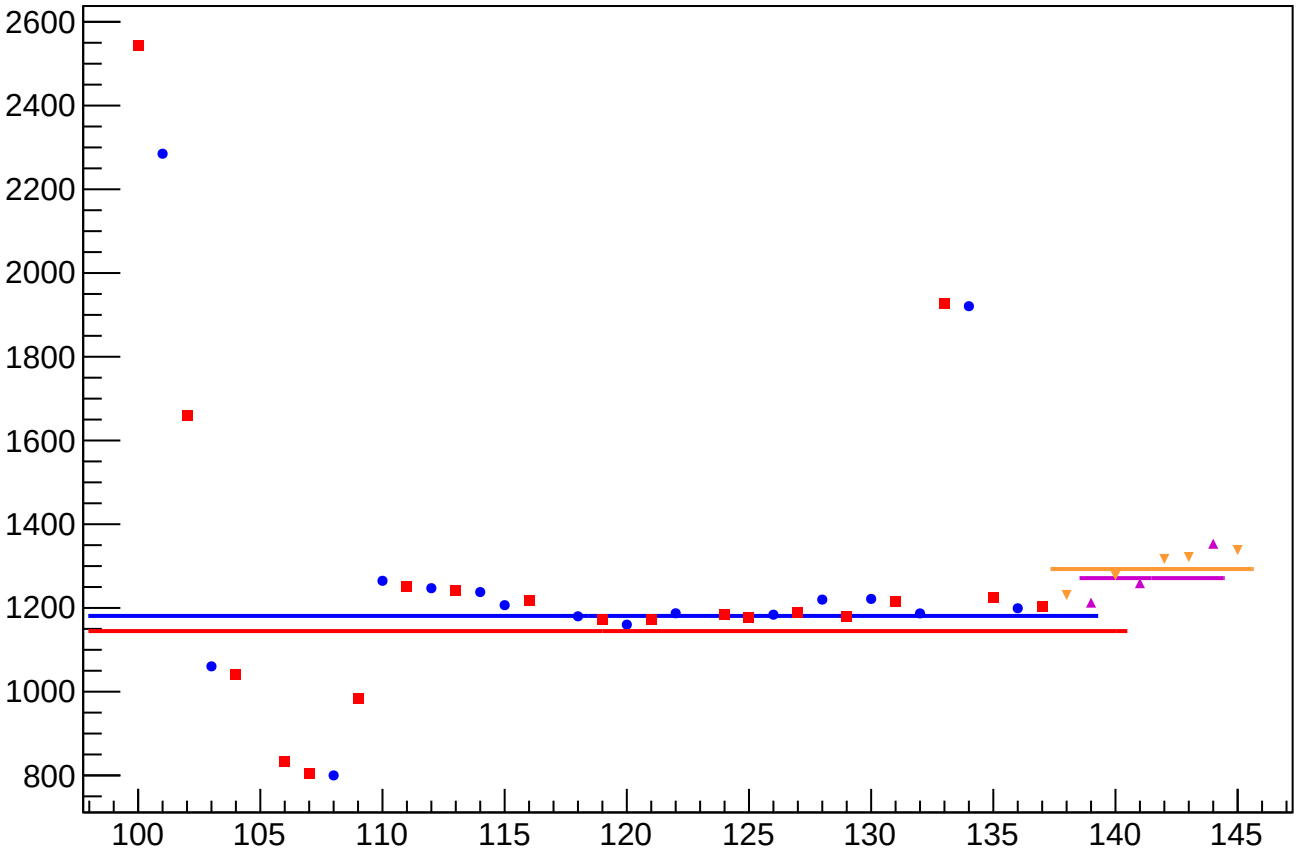
Left: -267.695+/-510.979 $\chi^2$/NDF: 12.7/7

Right: -474.506+/-312.042 $\chi^2$/NDF: 29.2/34

In: -800.423+/-389.356 $\chi^2$/NDF:12.7/18

Out: -82.436+/-365.060 $\chi^2$/NDF:27.5/23

All: -418.330+/-266.311 $\chi^2$/NDF: 42.0/42




Right In: 1180.955+/-0.317 $\chi^2$/NDF: 621878.9/15

Left Out: 1293.010+/-0.476 $\chi^2$/NDF:7118.8/4

Right Out: 1144.777+/-0.307 $\chi^2$/NDF: 497730.2/18

Left In: 1271.261+/-0.555 $\chi^2$/NDF:10735.4/2

Left: 1283.782+/-0.361 $\chi^2$/NDF: 18739.3/7

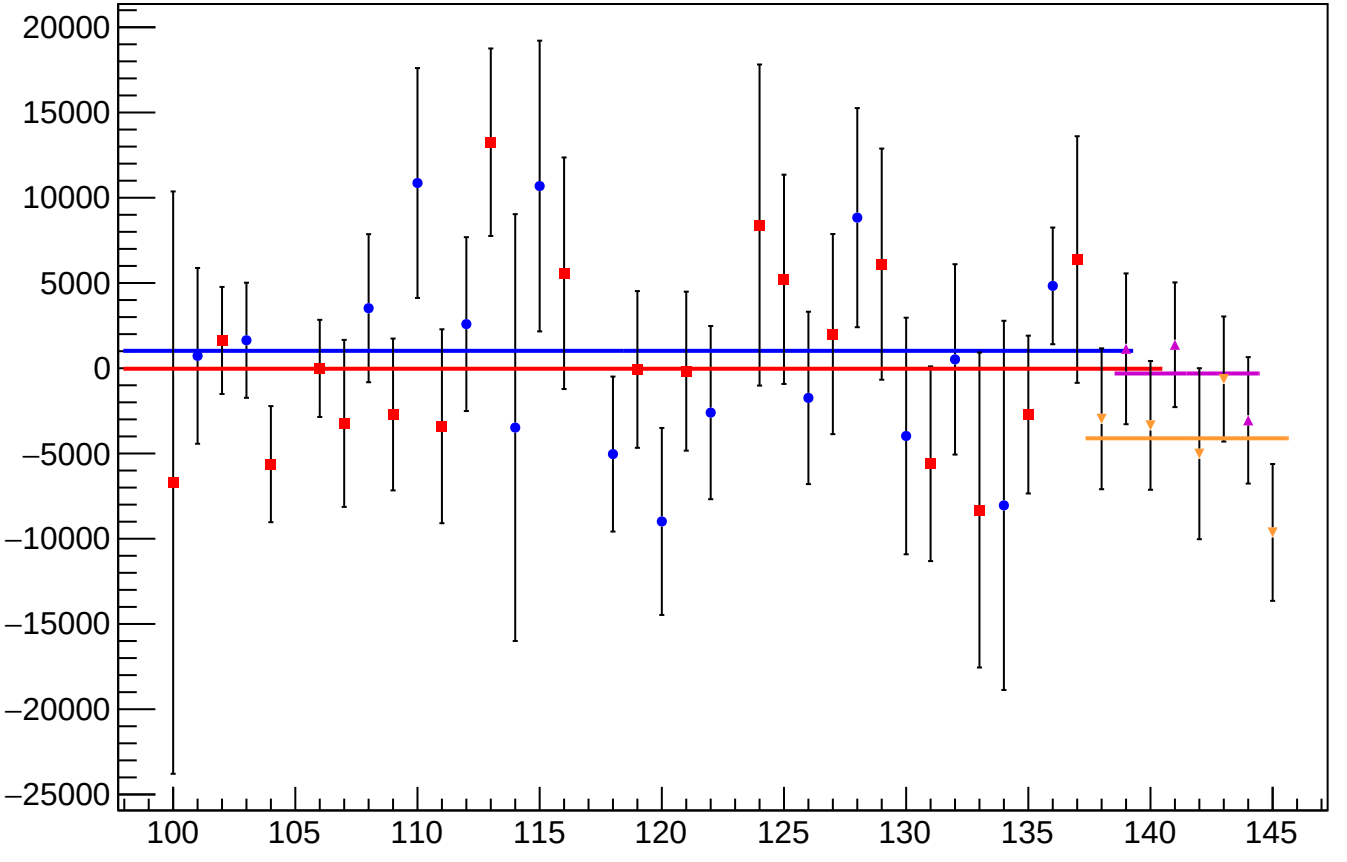
Right: 1162.281+/-0.221 $\chi^2$/NDF: 1126326.4/34

In: 1203.202+/-0.275 $\chi^2$/NDF:652589.7/18

Out: 1188.307+/-0.258 $\chi^2$/NDF:573292.4/23

All: 1195.273+/-0.188 $\chi^2$/NDF: 1227440.3/42

asym_usr_atr2_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 1021.029+/-1302.430 $\chi^2$/NDF: 13.9/15

Left Out: -4109.839+/-1811.191 $\chi^2$/NDF:2.9/4

Right Out: -30.142+/-1130.741 $\chi^2$/NDF: 16.1/18

Left In: -307.793+/-2243.747 $\chi^2$/NDF:0.9/2

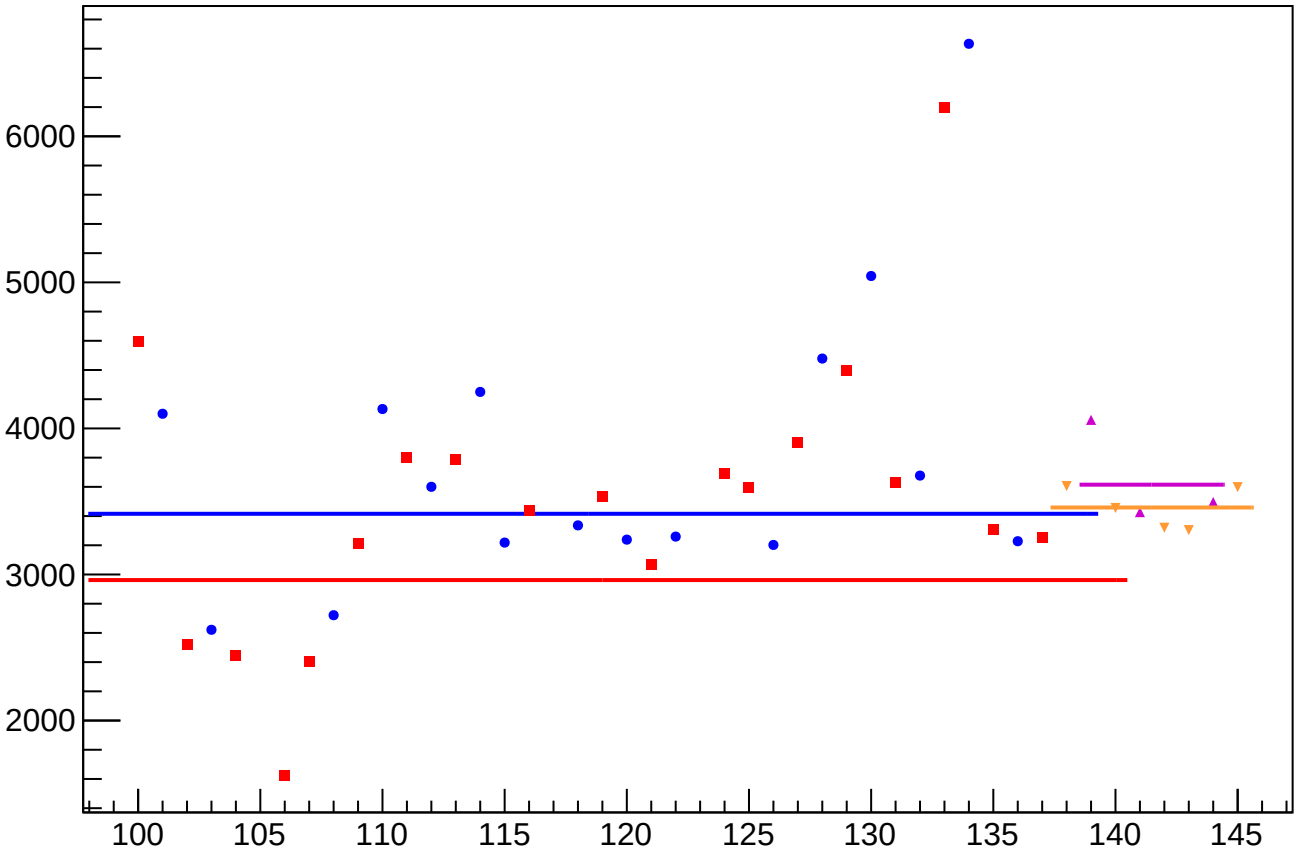
Left: -2609.831+/-1409.327 $\chi^2$/NDF: 5.5/7

Right: 421.639+/-853.849 $\chi^2$/NDF: 30.4/34

In: 686.130+/-1126.412 $\chi^2$/NDF:15.0/18

Out: -1174.298+/-959.165 $\chi^2$/NDF:22.7/23

All: -392.323+/-730.276 $\chi^2$/NDF: 39.3/42




Right In: 3415.591+/-0.921 $\chi^2$/NDF: 592339.1/15

Left Out: 3458.692+/-1.281 $\chi^2$/NDF:10019.5/4

Right Out: 2961.793+/-0.800 $\chi^2$/NDF: 1169257.0/18

Left In: 3614.860+/-1.587 $\chi^2$/NDF:27473.9/2

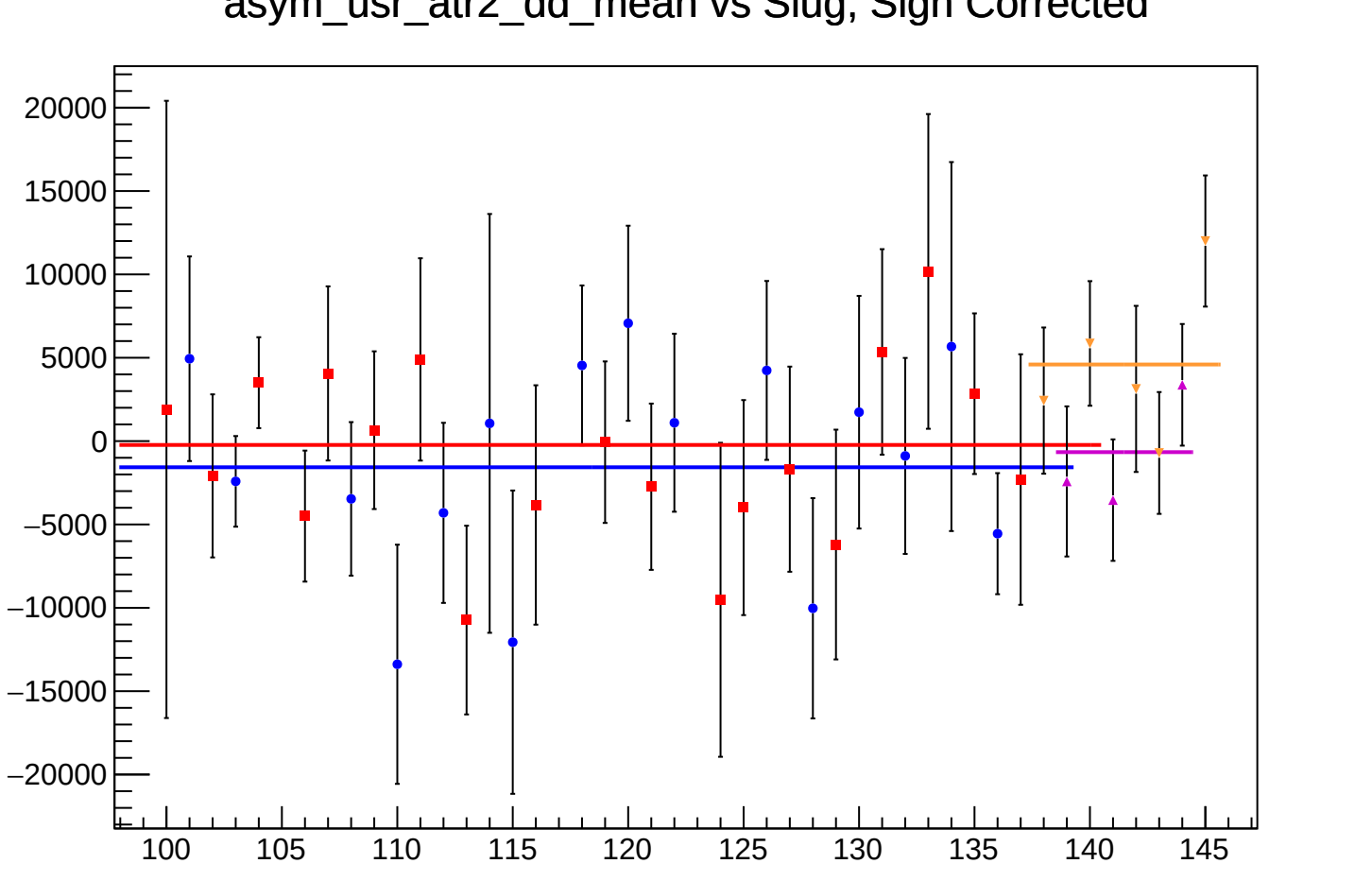
Left: 3520.304+/-0.997 $\chi^2$/NDF: 43359.7/7

Right: 3156.830+/-0.604 $\chi^2$/NDF: 1900042.9/34

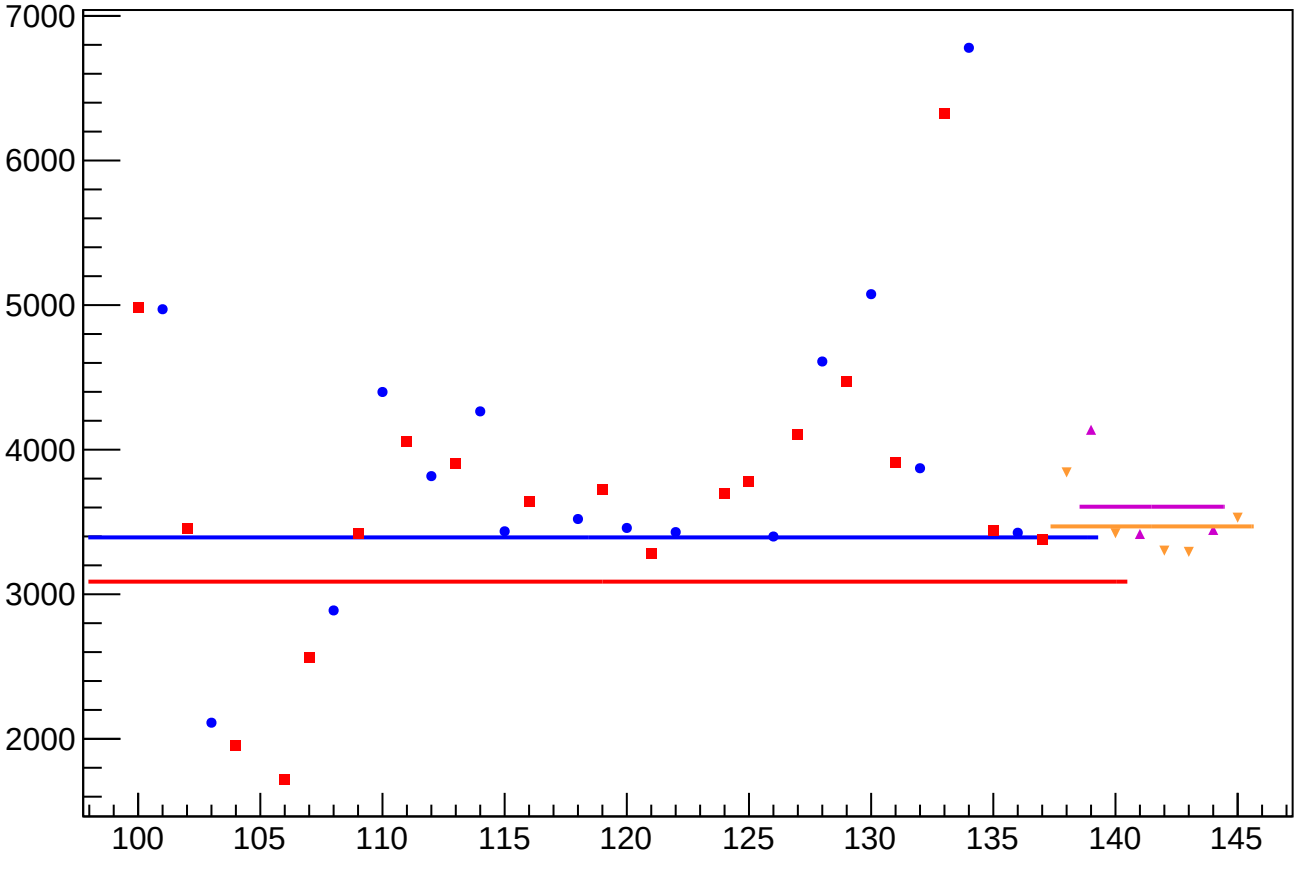
In: 3465.812+/-0.796 $\chi^2$/NDF:631612.0/18

Out: 3101.149+/-0.678 $\chi^2$/NDF:1287593.8/23

All: 3254.424+/-0.516 $\chi^2$/NDF: 2040714.4/42


asym_usr_atr2_dd_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -1569.809+/-1312.937 χ²/NDF: 14.5/15
Left Out: 4594.983+/-1815.431 χ²/NDF:6.1/4
Right Out: -231.125+/-1224.318 χ²/NDF: 13.2/18
Left In: -662.566+/-2237.186 χ²/NDF:2.0/2
Left: 2507.498+/-1409.685 χ²/NDF: 11.4/7
Right: -853.767+/-895.415 χ²/NDF: 28.2/34
In: -1337.389+/-1132.341 χ²/NDF:16.6/18
Out: 1277.634+/-1015.059 χ²/NDF:24.2/23
All: 112.519+/-755.829 χ²/NDF: 43.7/42

# asym_usr_atr2_dd_rms vs Slug, Sign Corrected




Right In: 3393.365+/-0.928 $\chi^2$/NDF: 1048707.6/15

Left Out: 3469.272+/-1.284 $\chi^2$/NDF:22212.9/4

Right Out: 3087.307+/-0.851 $\chi^2$/NDF: 1328355.8/18

Left In: 3605.549+/-1.582 $\chi^2$/NDF:37157.6/2

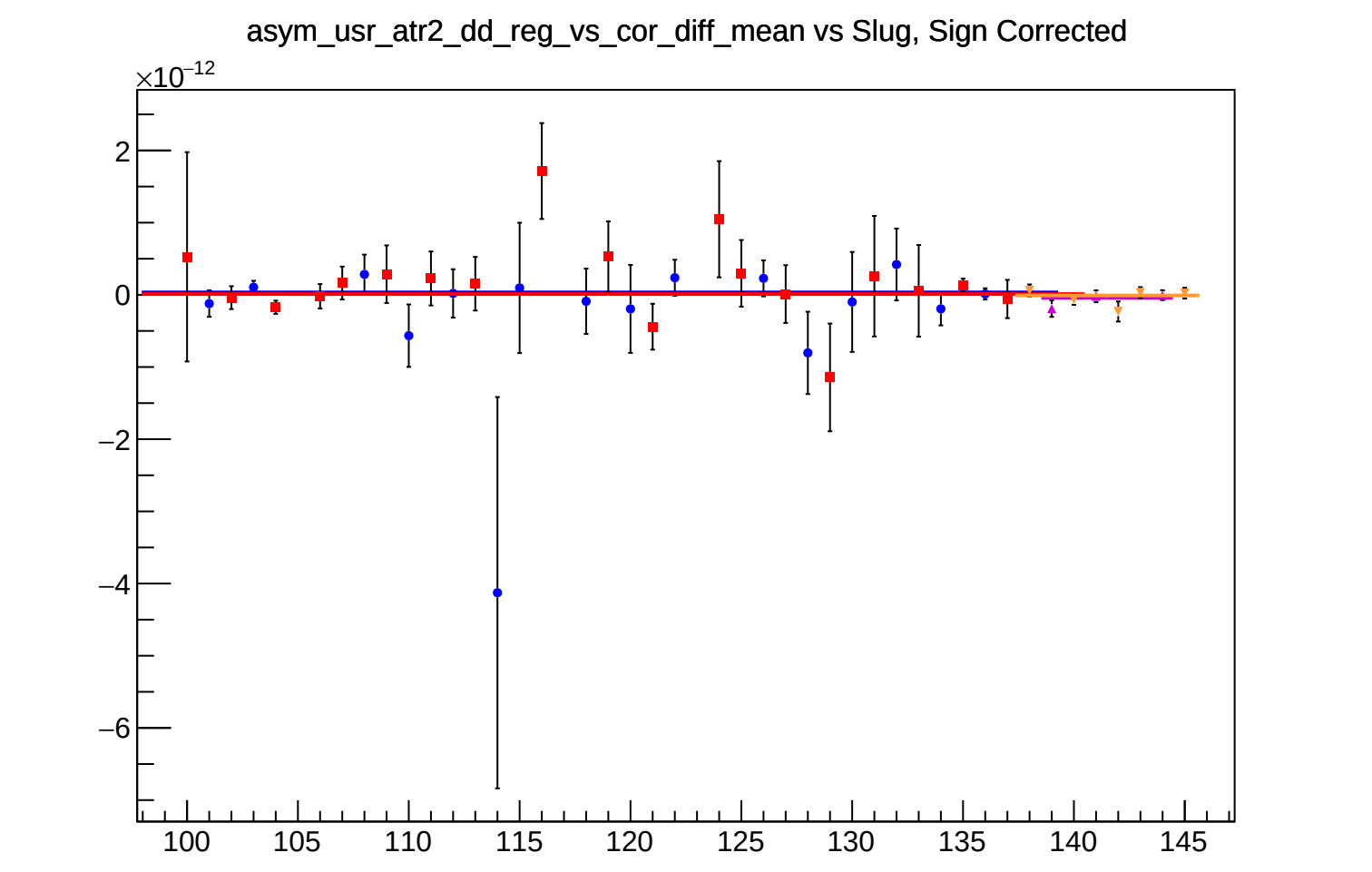
Left: 3523.380+/-0.997 $\chi^2$/NDF: 63845.1/7

Right: 3227.090+/-0.627 $\chi^2$/NDF: 2436107.0/34

In: 3447.723+/-0.801 $\chi^2$/NDF:1099247.0/18

Out: 3203.963+/-0.709 $\chi^2$/NDF:1412064.6/23

All: 3311.166+/-0.531 $\chi^2$/NDF: 2563233.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.1/2

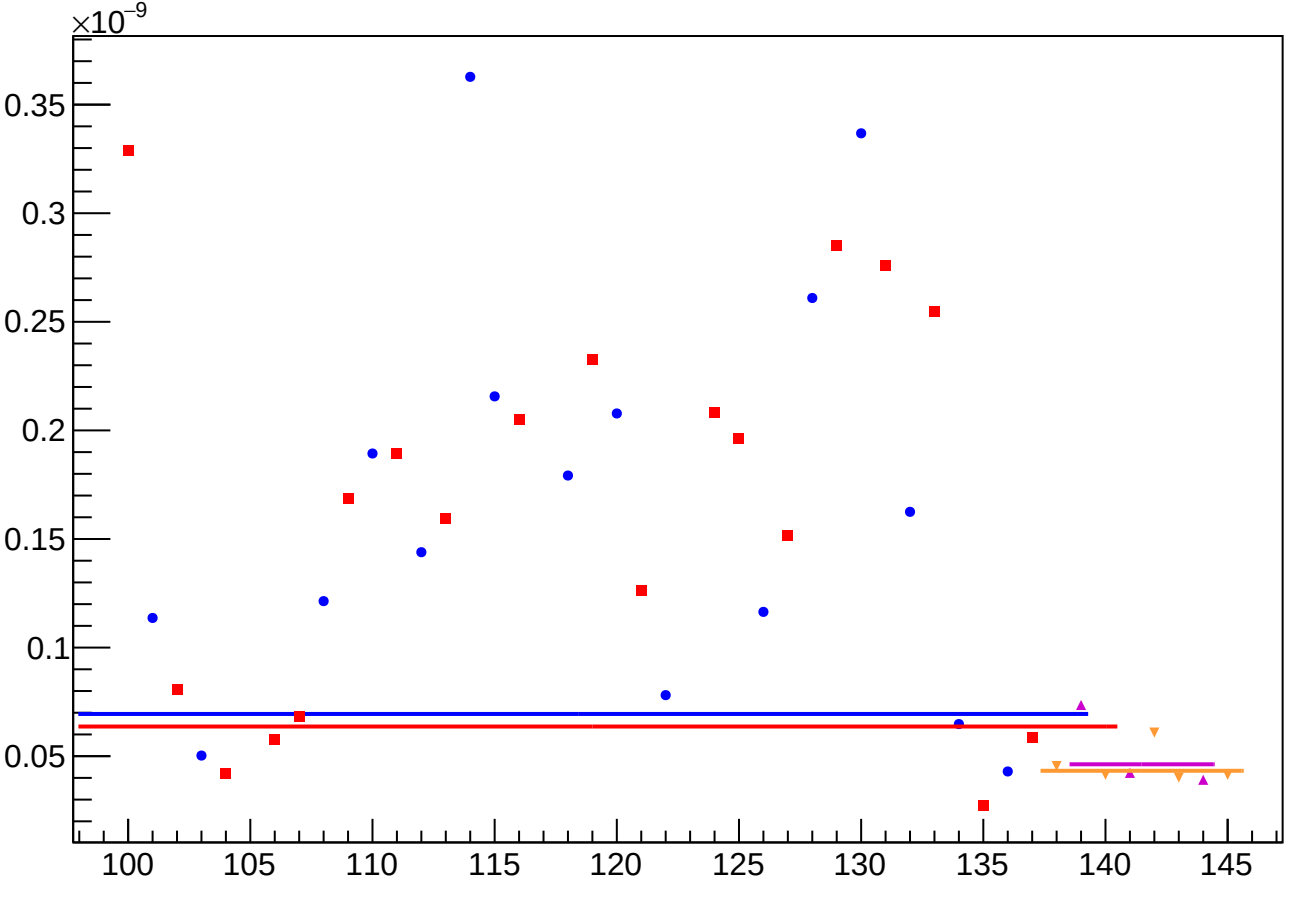
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.7/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:15.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:26.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 41.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1729471.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:39167.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2250342.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:141030.6/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 185098.6/7

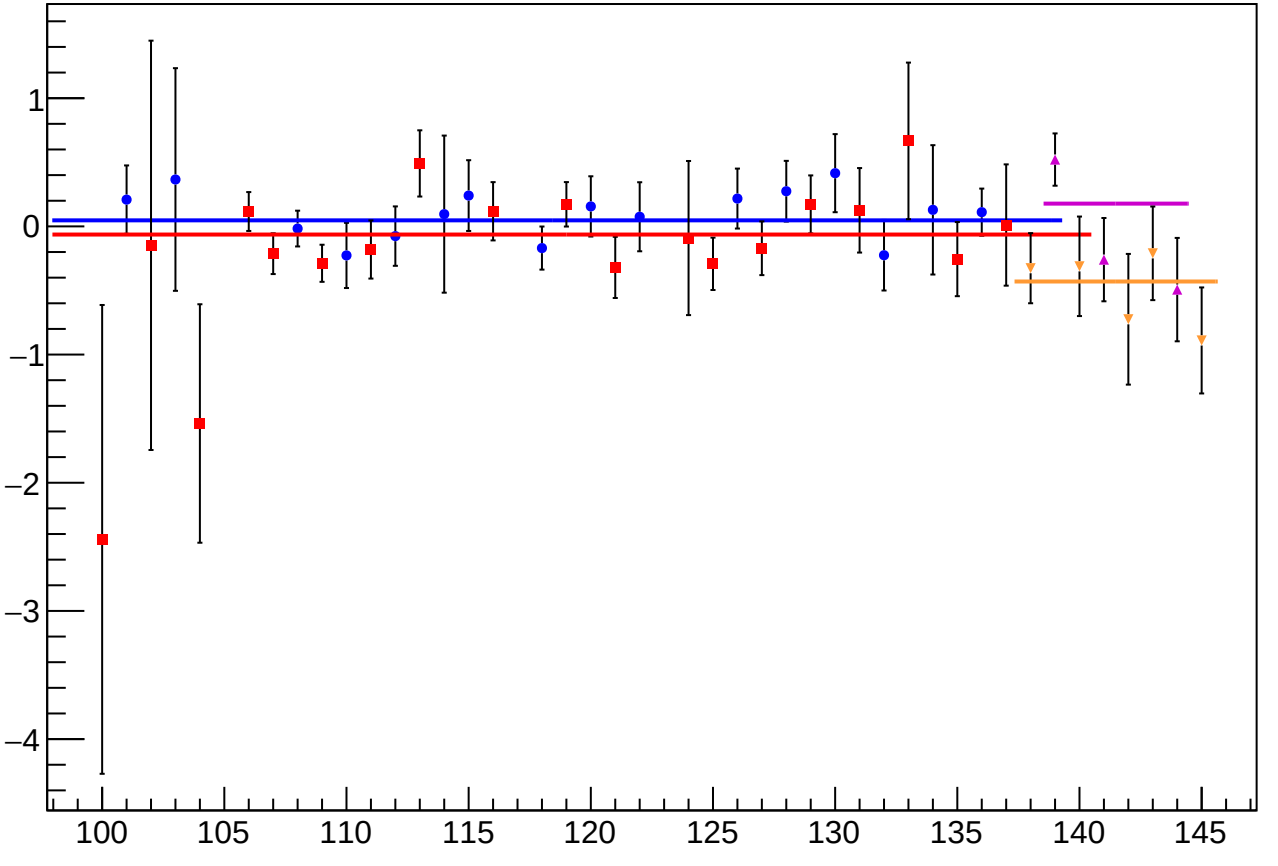
Right: 0.000+/-0.000 $\chi^2$/NDF: 3993621.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:2099880.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2507227.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4655577.5/42

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: -0.430+/-0.164 $\chi^2$/NDF:2.2/4

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.178+/-0.159 $\chi^2$/NDF:7.4/2

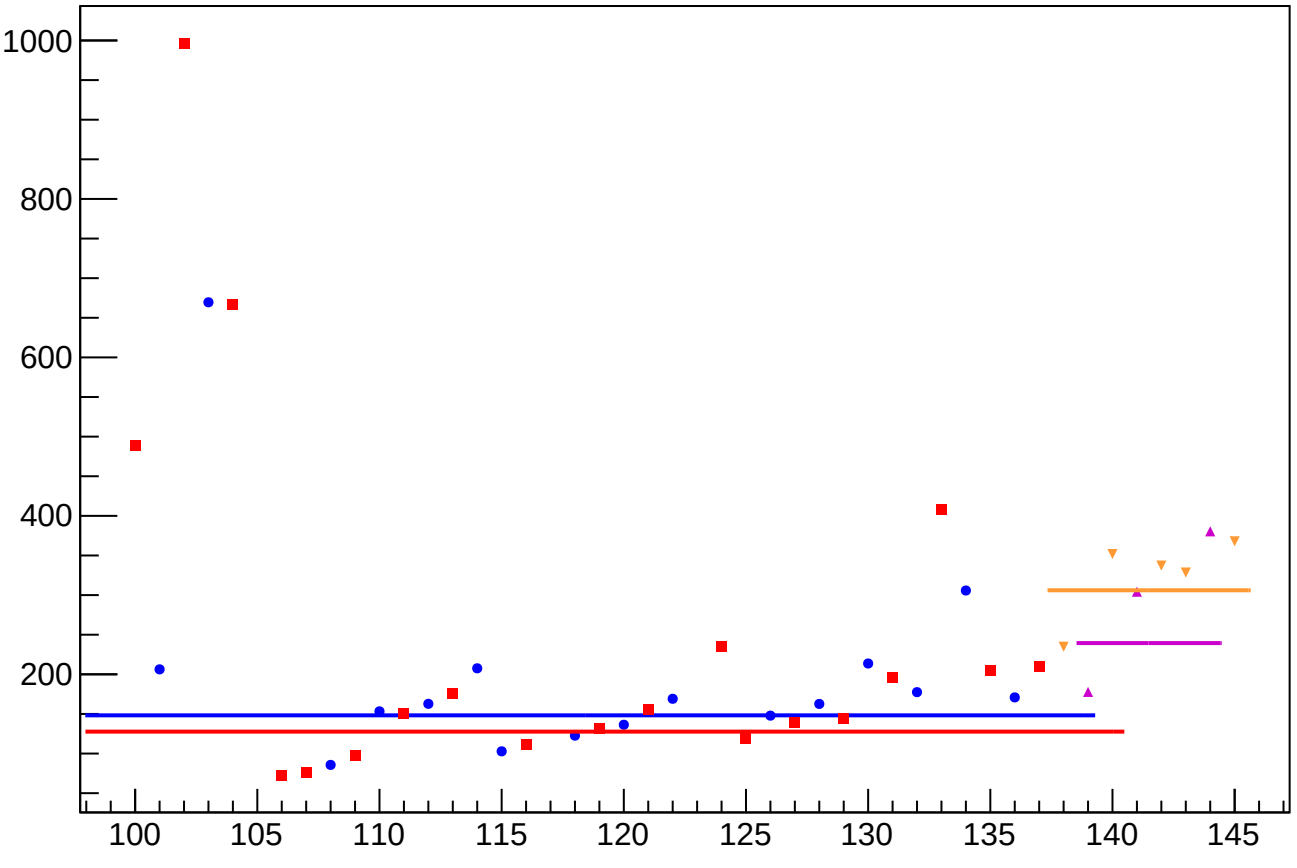
Left: -0.116+/-0.114 $\chi^2$/NDF: 16.7/7

Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

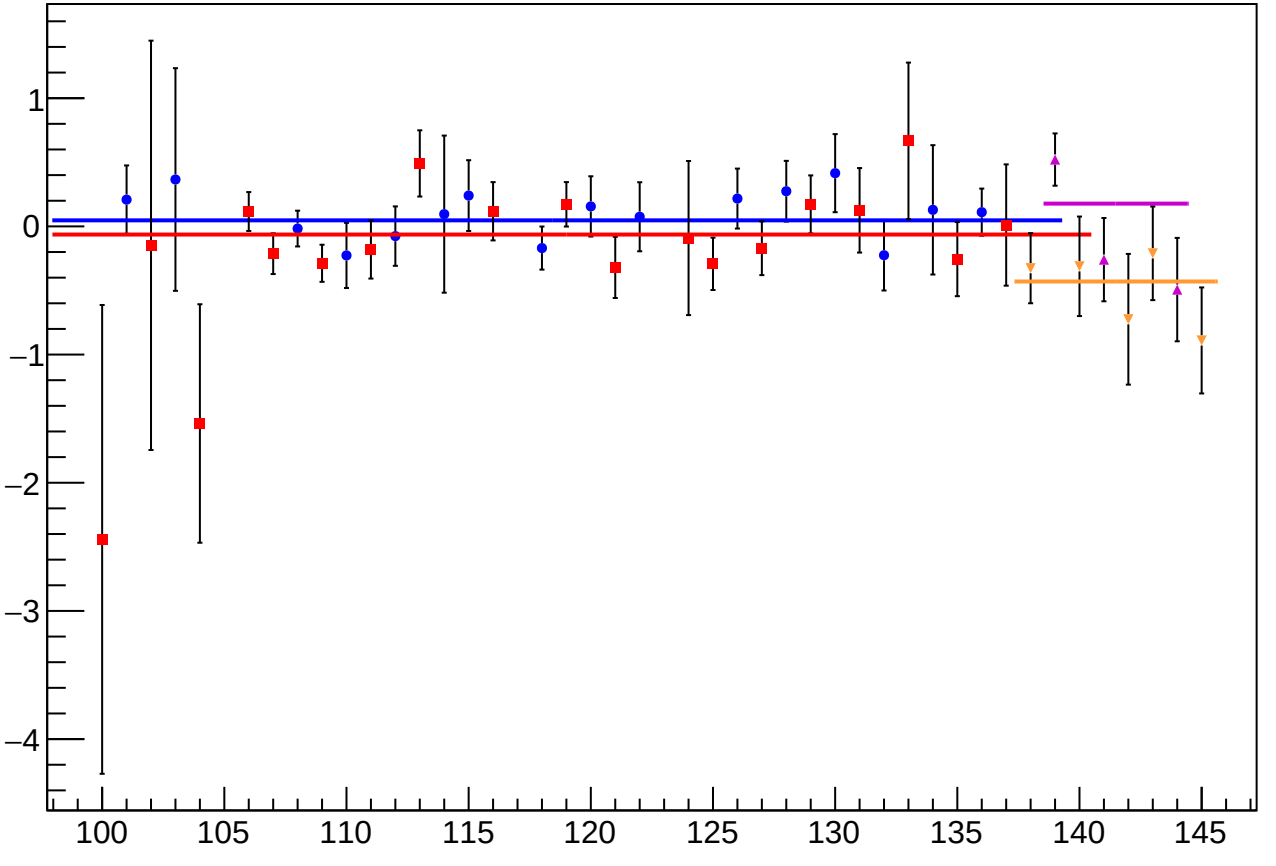
In: 0.063+/-0.056 $\chi^2$/NDF:16.6/18

Out: -0.100+/-0.052 $\chi^2$/NDF:28.9/23

All: -0.025+/-0.038 $\chi^2$/NDF: 50.0/42


asym_usr_atr2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected
1000
800
600
400
200
100
105
110
115
120
125
130
135
140
145
Right In: 148.240+/-0.042 χ²/NDF: 1710035.6/15
Left Out: 306.077+/-0.116 χ²/NDF:223060.4/4
Right Out: 127.685+/-0.039 χ²/NDF: 2841780.7/18
Left In: 239.438+/-0.112 χ²/NDF:506876.9/2
Left: 271.690+/-0.081 χ²/NDF: 900434.7/7
Right: 137.004+/-0.029 χ²/NDF: 4680006.1/34
In: 159.645+/-0.040 χ²/NDF:2794168.3/18
Out: 145.534+/-0.037 χ²/NDF:5195728.9/23
All: 152.030+/-0.027 χ²/NDF: 8058062.2/42

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: -0.430+/-0.164 $\chi^2$/NDF:2.2/4

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.178+/-0.159 $\chi^2$/NDF:7.4/2

Left: -0.116+/-0.114 $\chi^2$/NDF: 16.7/7

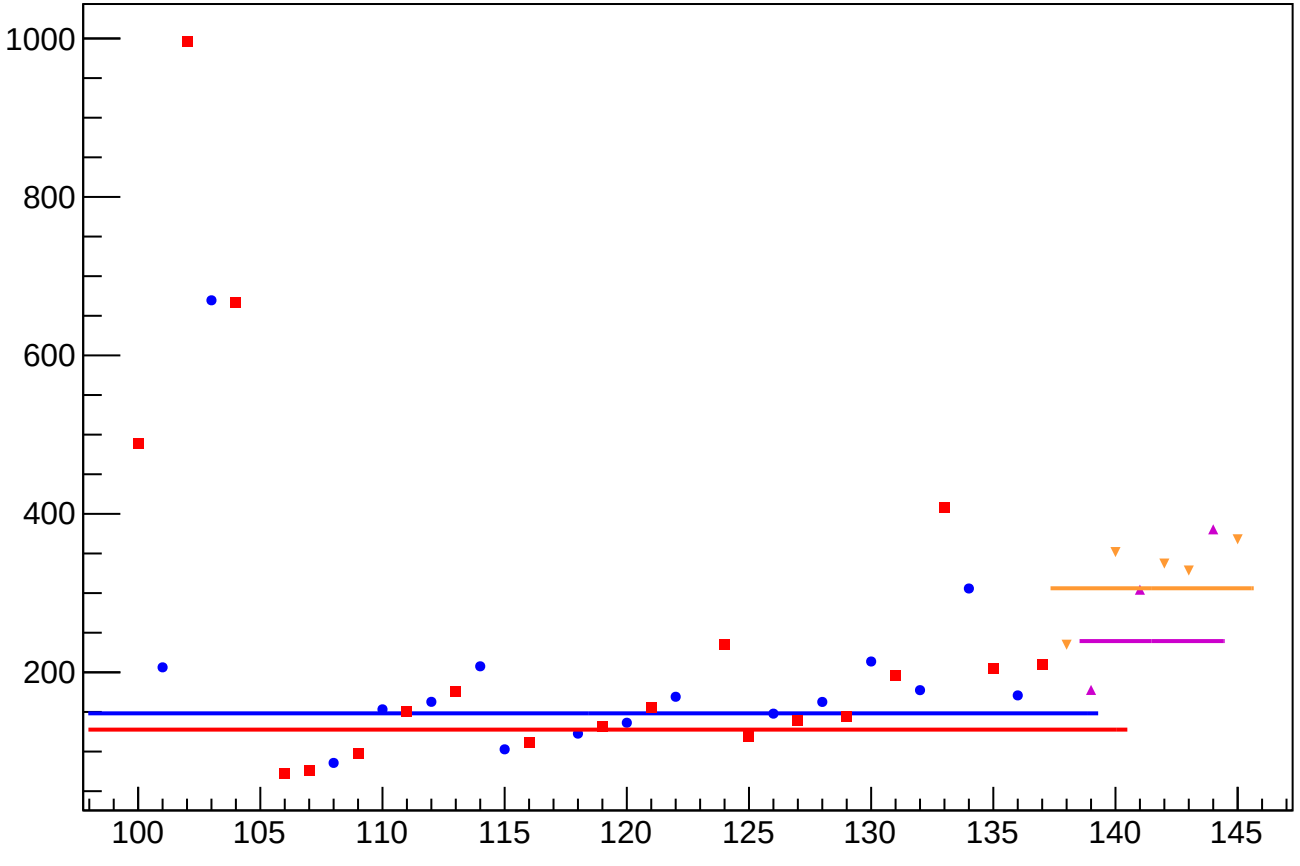
Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.063+/-0.056 $\chi^2$/NDF:16.6/18

Out: -0.100+/-0.052 $\chi^2$/NDF:28.9/23

All: -0.025+/-0.038 $\chi^2$/NDF: 50.0/42

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: 306.077+/-0.116 $\chi^2$/NDF:223060.4/4

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841780.7/18

Left In: 239.438+/-0.112 $\chi^2$/NDF:506876.9/2

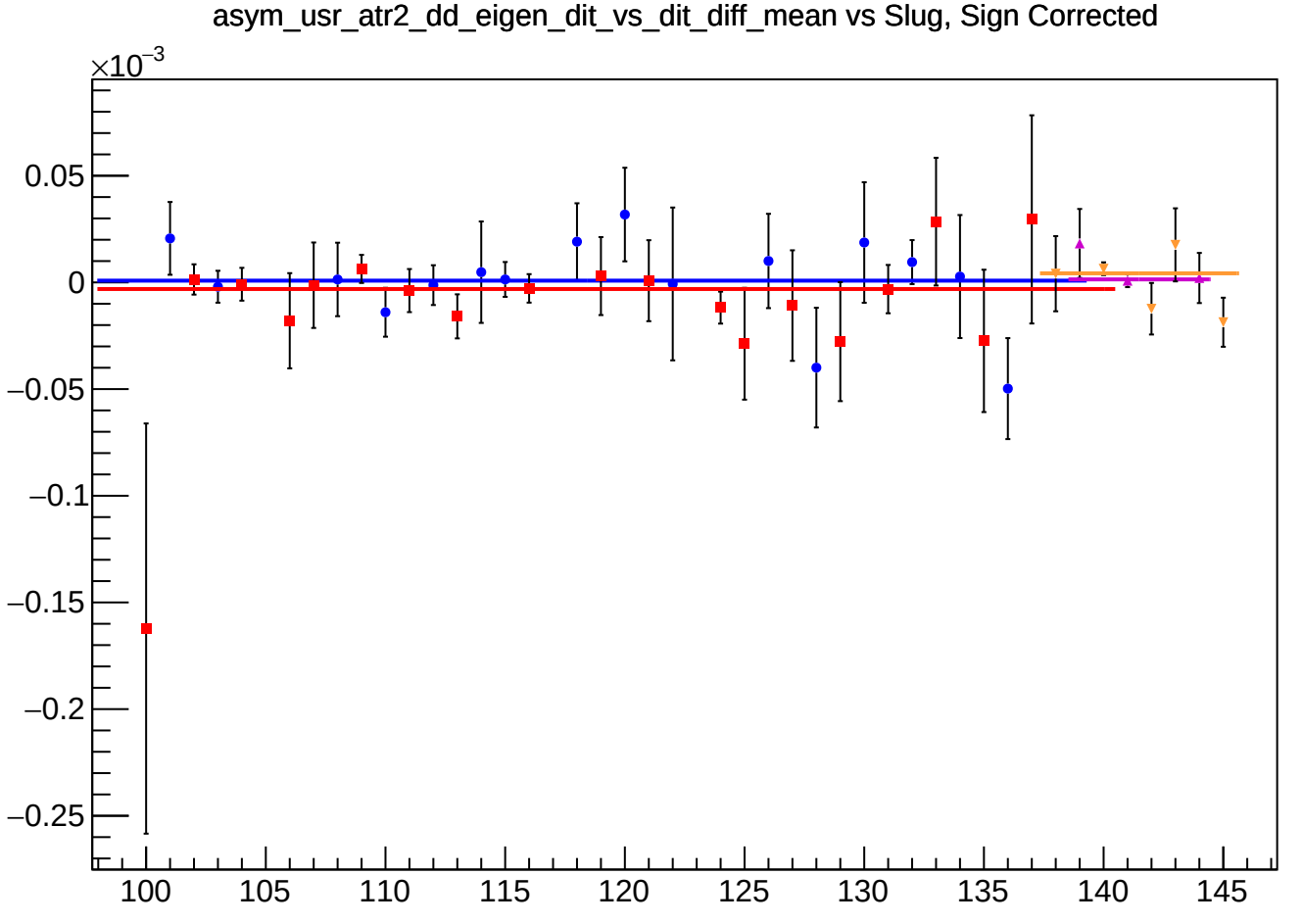
Left: 271.690+/-0.081 $\chi^2$/NDF: 900434.7/7

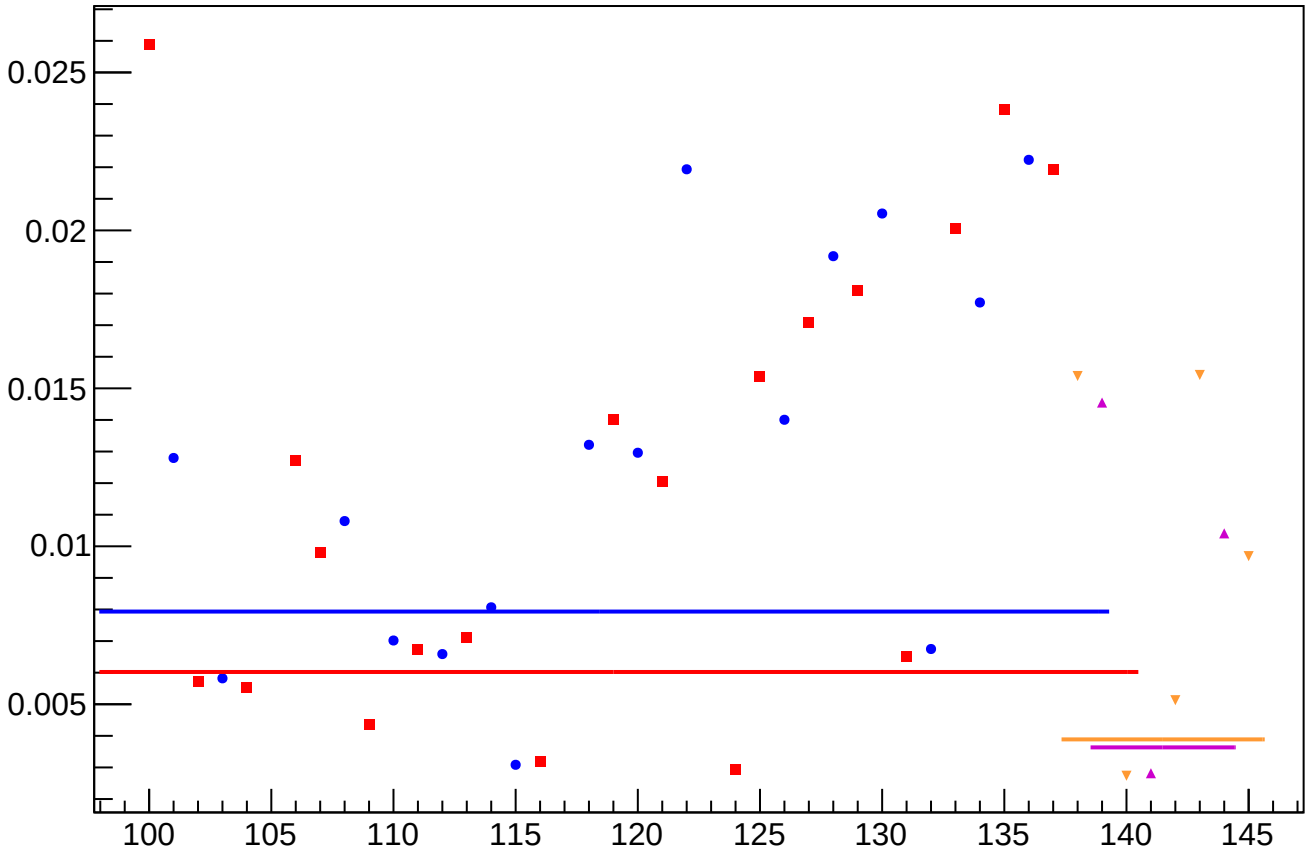
Right: 137.004+/-0.029 $\chi^2$/NDF: 4680006.1/34

In: 159.645+/-0.040 $\chi^2$/NDF:2794168.3/18

Out: 145.534+/-0.037 $\chi^2$/NDF:5195728.9/23

All: 152.030+/-0.027 $\chi^2$/NDF: 8058062.2/42


asym_usr_atr2_dd_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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 14.3/15
Left Out: 0.000+/-0.000 χ²/NDF:7.0/4
Right Out: -0.000+/-0.000 χ²/NDF: 12.7/18
Left In: 0.000+/-0.000 χ²/NDF:1.1/2
Left: 0.000+/-0.000 χ²/NDF: 8.6/7
Right: -0.000+/-0.000 χ²/NDF: 27.8/34
In: 0.000+/-0.000 χ²/NDF:15.4/18
Out: 0.000+/-0.000 χ²/NDF:23.4/23
All: 0.000+/-0.000 χ²/NDF: 38.9/42




Right In: 0.008+/-0.000 $\chi^2$/NDF: 3577687.8/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2585818.4/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 4009592.0/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:1725971.4/2

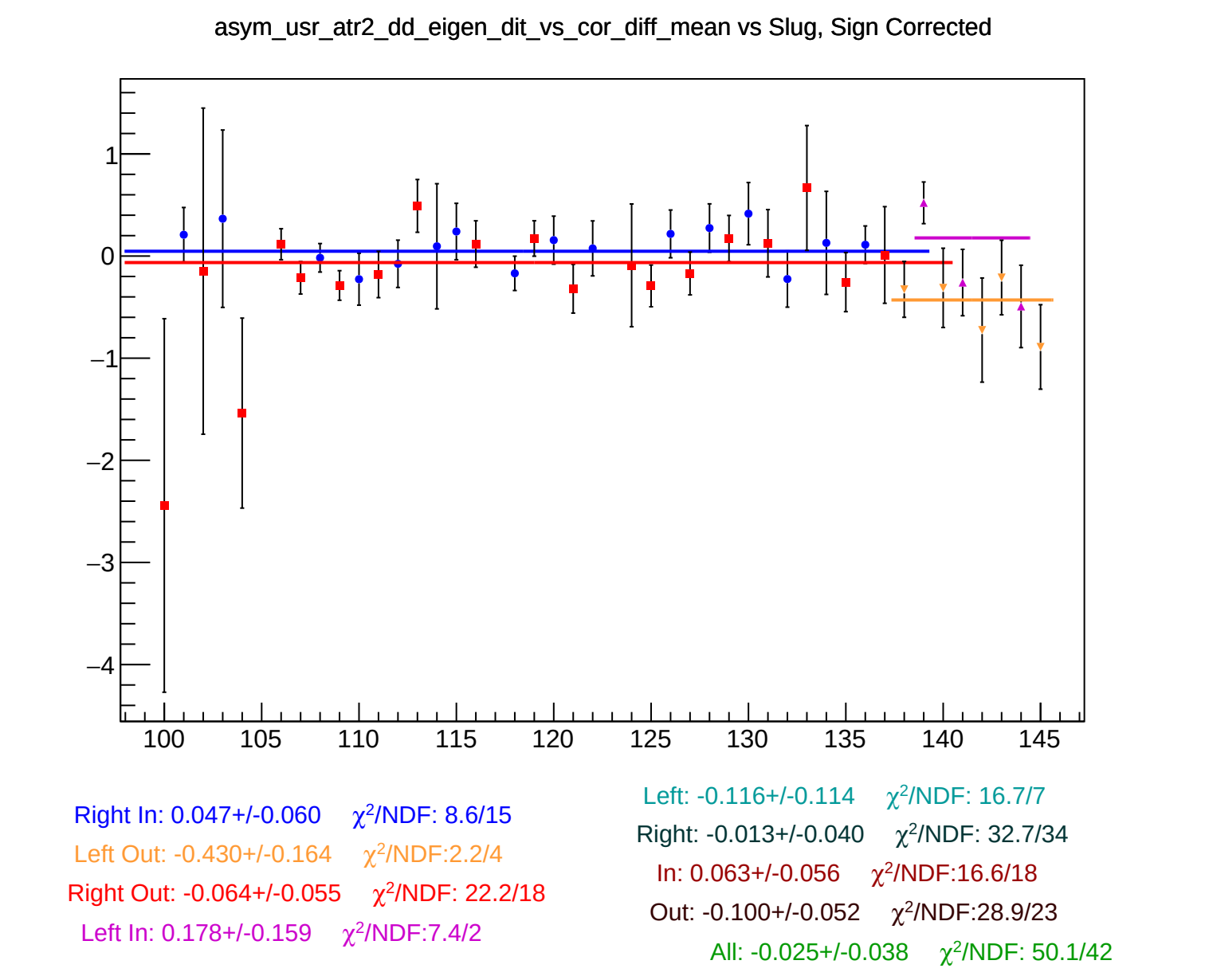
Left: 0.004+/-0.000 $\chi^2$/NDF: 4319924.2/7

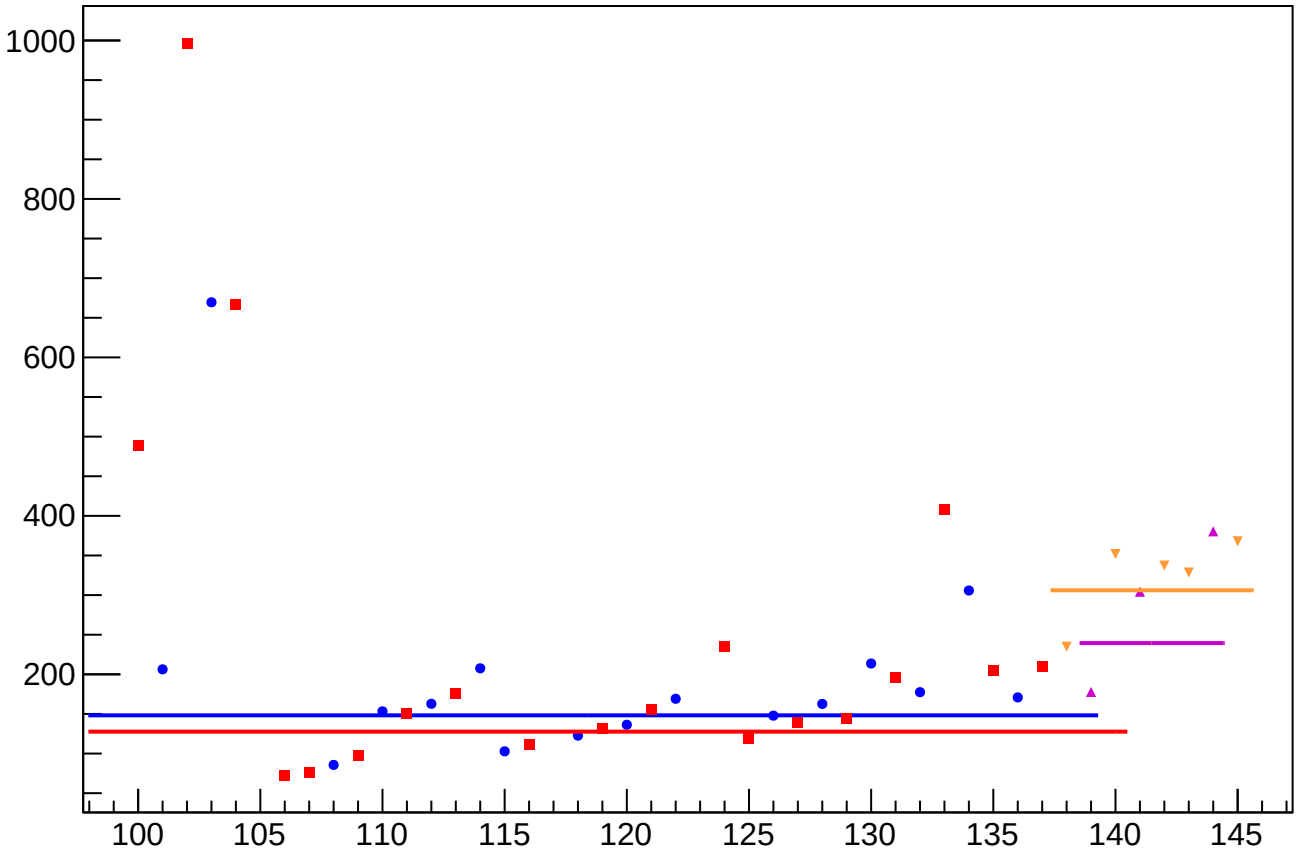
Right: 0.007+/-0.000 $\chi^2$/NDF: 7973863.6/34

In: 0.005+/-0.000 $\chi^2$/NDF:7136568.7/18

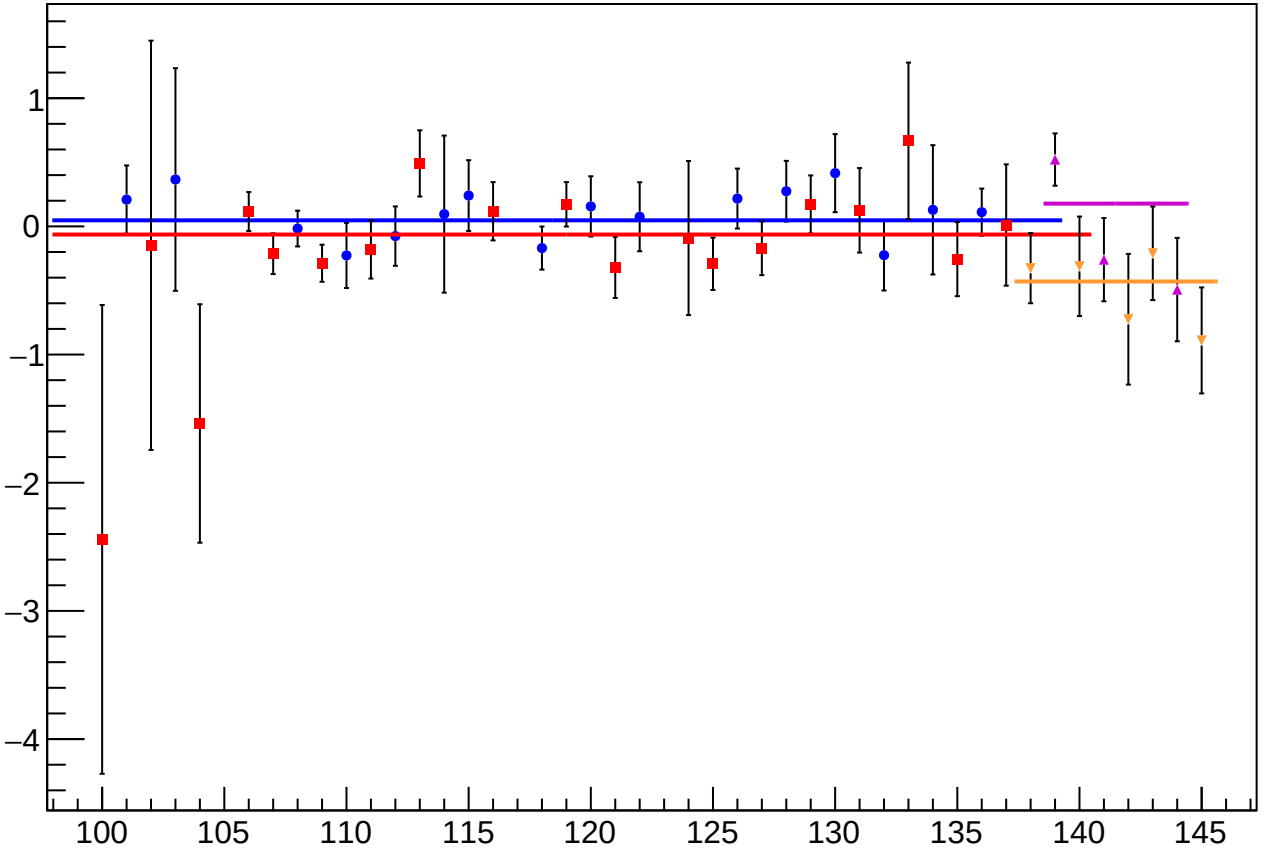
Out: 0.005+/-0.000 $\chi^2$/NDF:7225354.9/23

All: 0.005+/-0.000 $\chi^2$/NDF: 14396509.3/42


asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
1
0
−1
−2
−3
−4
100
105
110
115
120
125
130
135
140
145
Right In: 0.047+/-0.060 χ²/NDF: 8.6/15
Left Out: -0.430+/-0.164 χ²/NDF:2.2/4
Right Out: -0.064+/-0.055 χ²/NDF: 22.2/18
Left In: 0.178+/-0.159 χ²/NDF:7.4/2
Left: -0.116+/-0.114 χ²/NDF: 16.7/7
Right: -0.013+/-0.040 χ²/NDF: 32.7/34
In: 0.063+/-0.056 χ²/NDF:16.6/18
Out: -0.100+/-0.052 χ²/NDF:28.9/23
All: -0.025+/-0.038 χ²/NDF: 50.1/42


asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected
1000
800
600
400
200
100
105
110
115
120
125
130
135
140
145
Right In: 148.238+/-0.042 χ²/NDF: 1710114.4/15
Left Out: 306.081+/-0.116 χ²/NDF:223043.7/4
Right Out: 127.685+/-0.039 χ²/NDF: 2841772.5/18
Left In: 239.440+/-0.112 χ²/NDF:506853.5/2
Left: 271.694+/-0.081 χ²/NDF: 900397.9/7
Right: 137.003+/-0.029 χ²/NDF: 4680047.3/34
In: 159.643+/-0.040 χ²/NDF:2794281.1/18
Out: 145.534+/-0.037 χ²/NDF:5195752.1/23
All: 152.029+/-0.027 χ²/NDF: 8058176.5/42

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: -0.430+/-0.164 $\chi^2$/NDF:2.2/4

Right Out: -0.064+/-0.055 $\chi^2$/NDF: 22.2/18

Left In: 0.178+/-0.159 $\chi^2$/NDF:7.4/2

Left: -0.116+/-0.114 $\chi^2$/NDF: 16.7/7

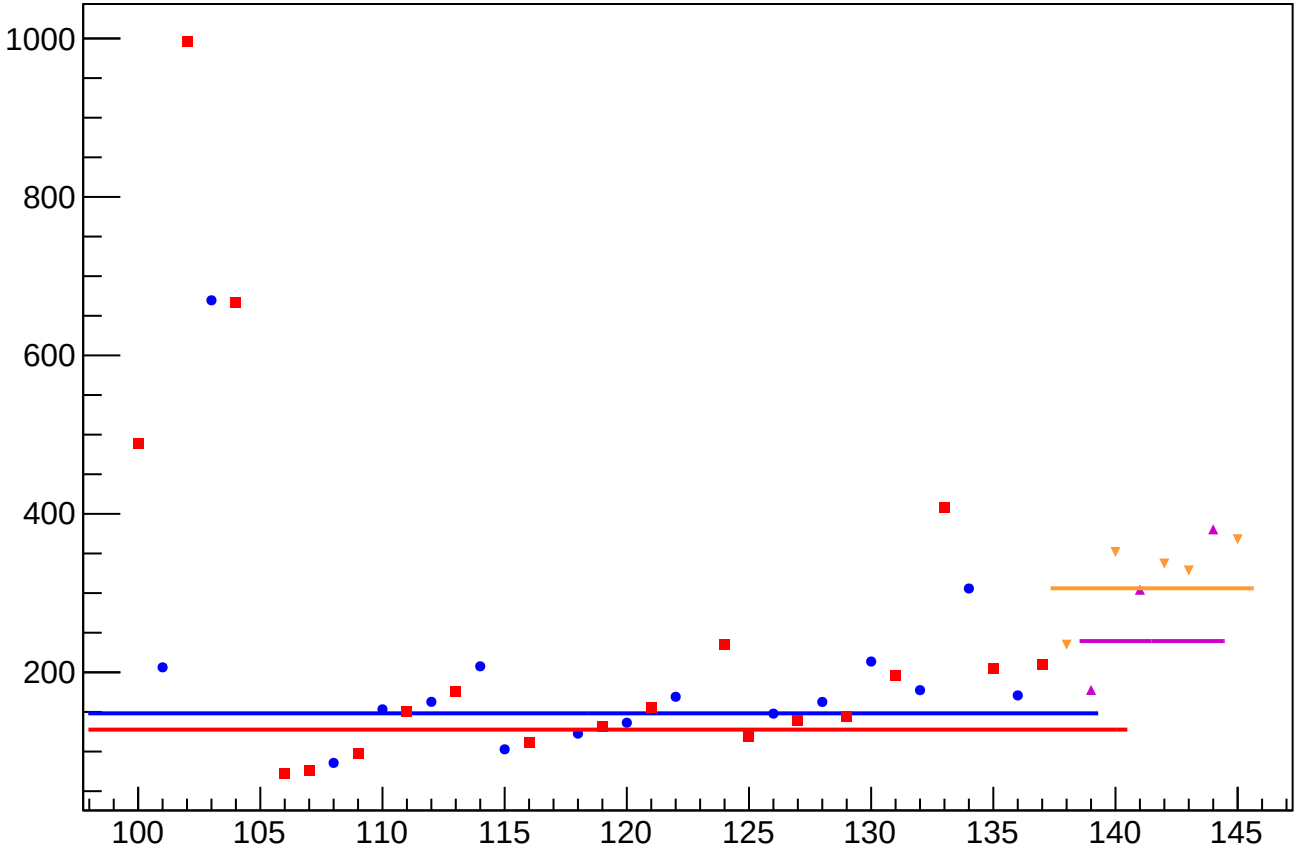
Right: -0.013+/-0.040 $\chi^2$/NDF: 32.7/34

In: 0.063+/-0.056 $\chi^2$/NDF:16.6/18

Out: -0.100+/-0.052 $\chi^2$/NDF:28.9/23

All: -0.025+/-0.038 $\chi^2$/NDF: 50.1/42

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: 306.081+/-0.116 $\chi^2$/NDF:223043.7/4

Right Out: 127.685+/-0.039 $\chi^2$/NDF: 2841772.5/18

Left In: 239.440+/-0.112 $\chi^2$/NDF:506853.5/2

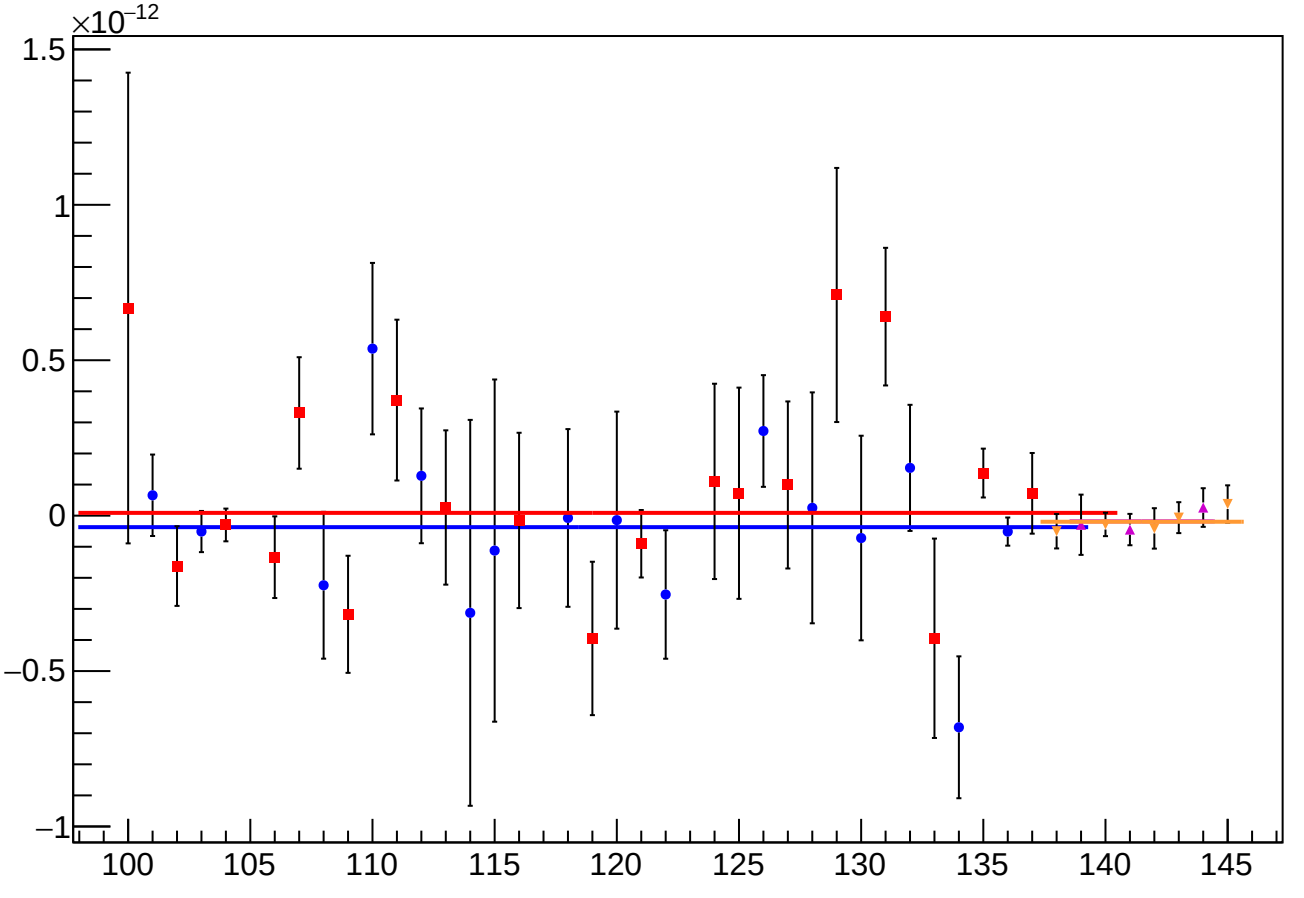
Left: 271.694+/-0.081 $\chi^2$/NDF: 900397.9/7

Right: 137.003+/-0.029 $\chi^2$/NDF: 4680047.3/34

In: 159.643+/-0.040 $\chi^2$/NDF:2794281.1/18

Out: 145.534+/-0.037 $\chi^2$/NDF:5195752.1/23

All: 152.029+/-0.027 $\chi^2$/NDF: 8058176.5/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 31.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.8/2

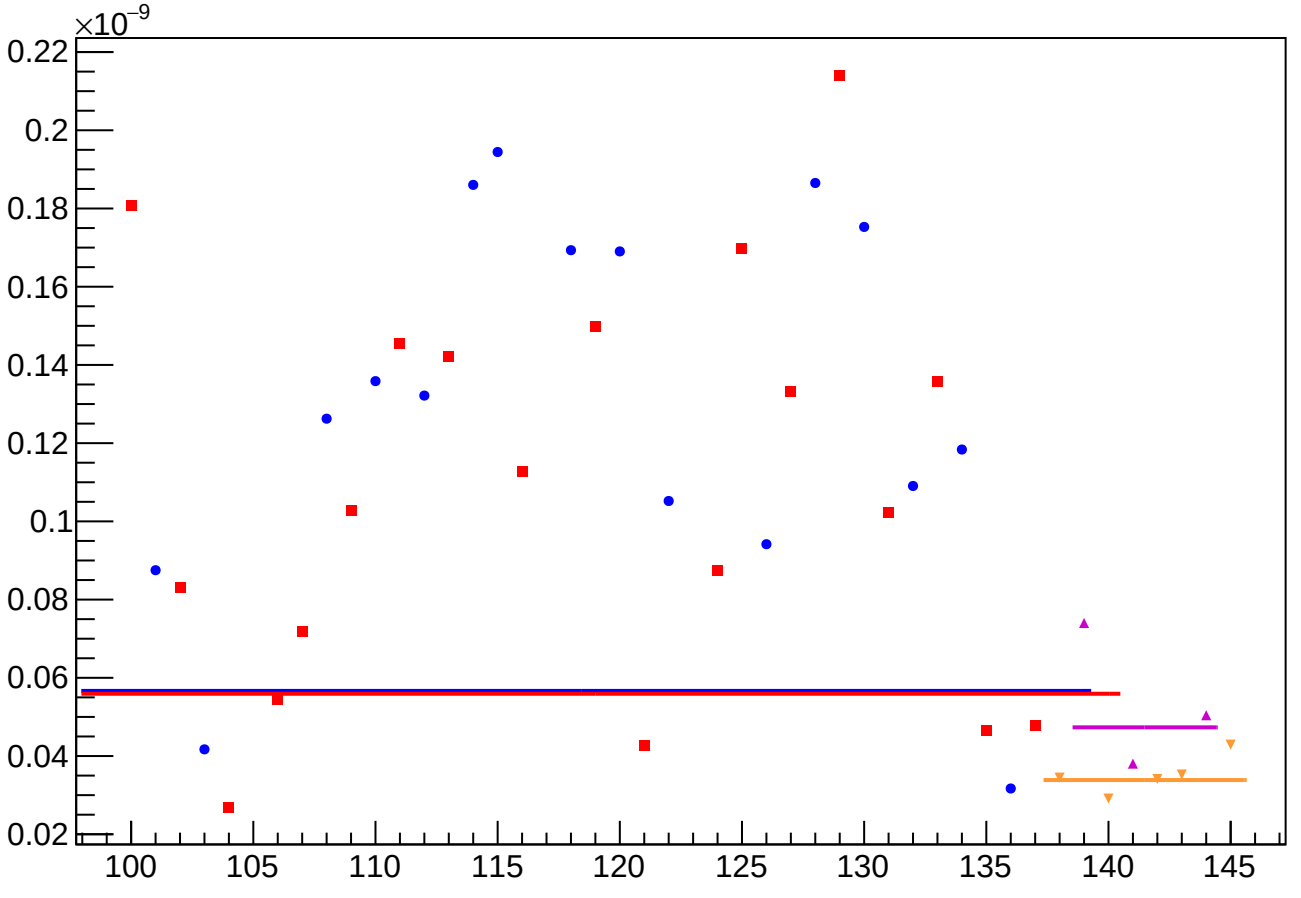
Left: -0.000+/-0.000 $\chi^2$/NDF: 2.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 52.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:33.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 54.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3113213.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:79071.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2732977.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:224110.0/2

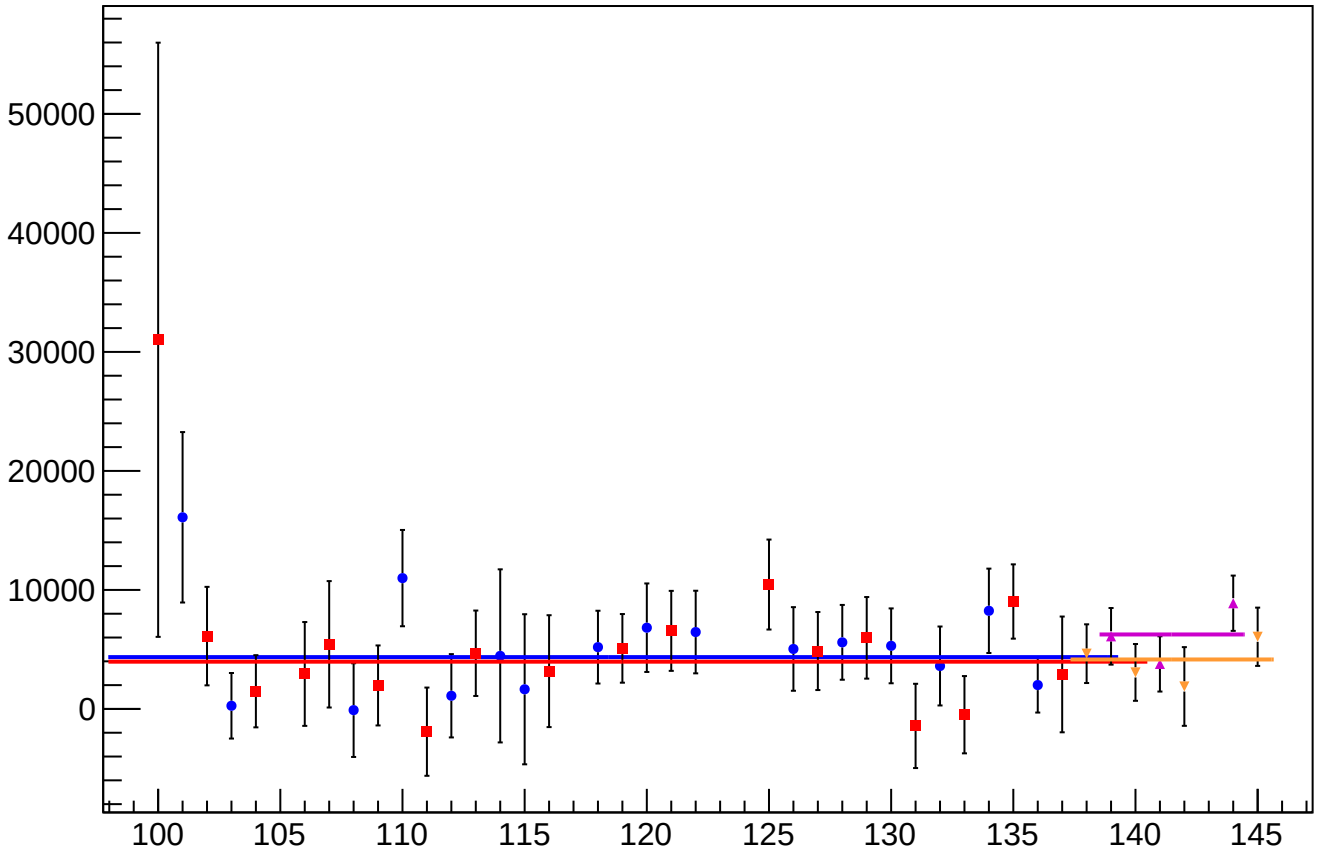
Left: 0.000+/-0.000 $\chi^2$/NDF: 501411.7/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 5846702.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:3411101.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3445374.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7135470.5/42




Right In: 4354.350+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 4155.885+/-1292.996 $\chi^2$/NDF:1.3/3

Right Out: 3971.679+/-871.305 $\chi^2$/NDF: 16.2/17

Left In: 6257.709+/-1351.461 $\chi^2$/NDF:2.4/2

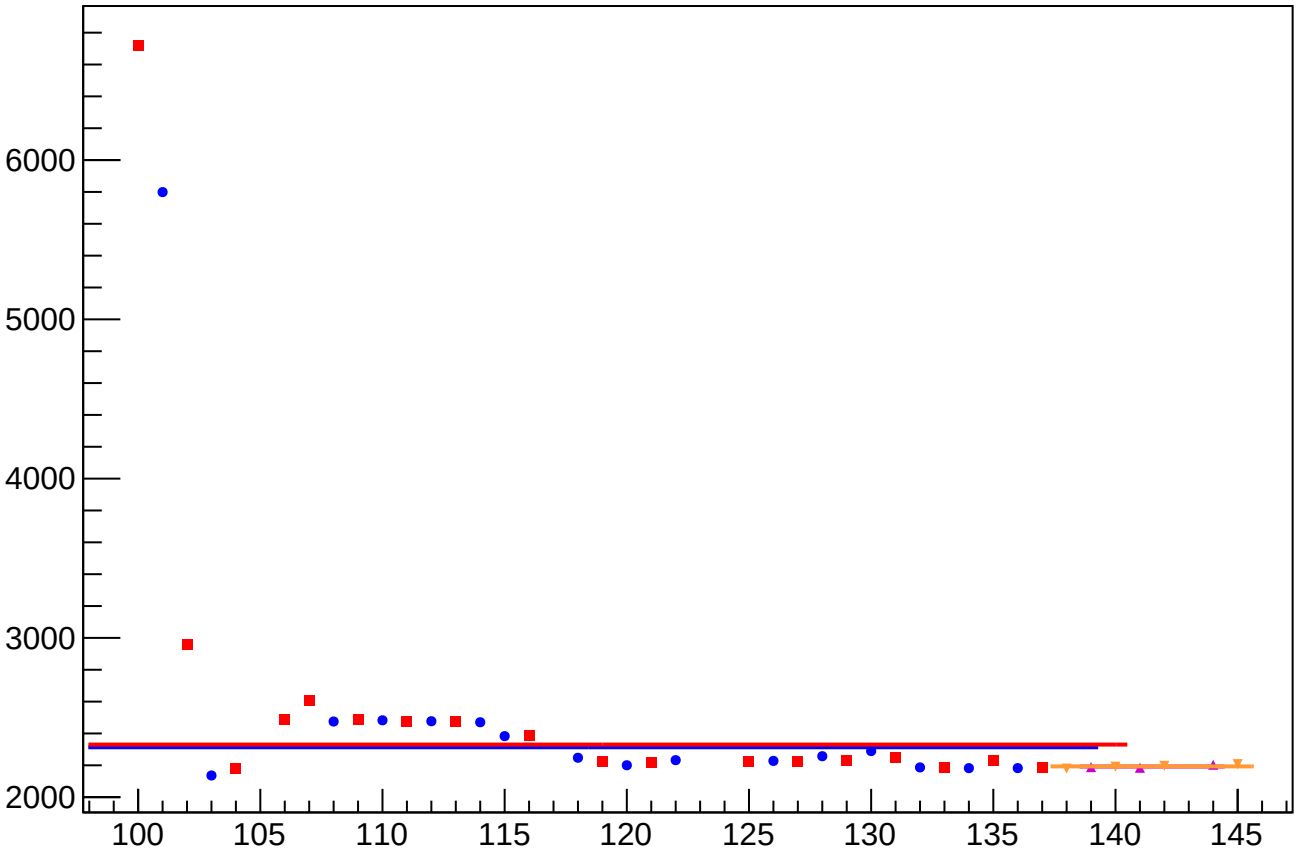
Left: 5160.351+/-934.271 $\chi^2$/NDF: 5.0/6

Right: 4162.171+/-617.462 $\chi^2$/NDF: 29.6/33

In: 4916.689+/-734.585 $\chi^2$/NDF:17.2/18

Out: 4029.204+/-722.560 $\chi^2$/NDF:17.5/21

All: 4465.623+/-515.126 $\chi^2$/NDF: 35.4/40




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512371.8/15

Left Out: 2193.251+/-0.914 $\chi^2$/NDF:132.3/3

Right Out: 2330.200+/-0.616 $\chi^2$/NDF: 151210.5/17

Left In: 2192.390+/-0.956 $\chi^2$/NDF:75.0/2

Left: 2192.840+/-0.661 $\chi^2$/NDF: 207.7/6

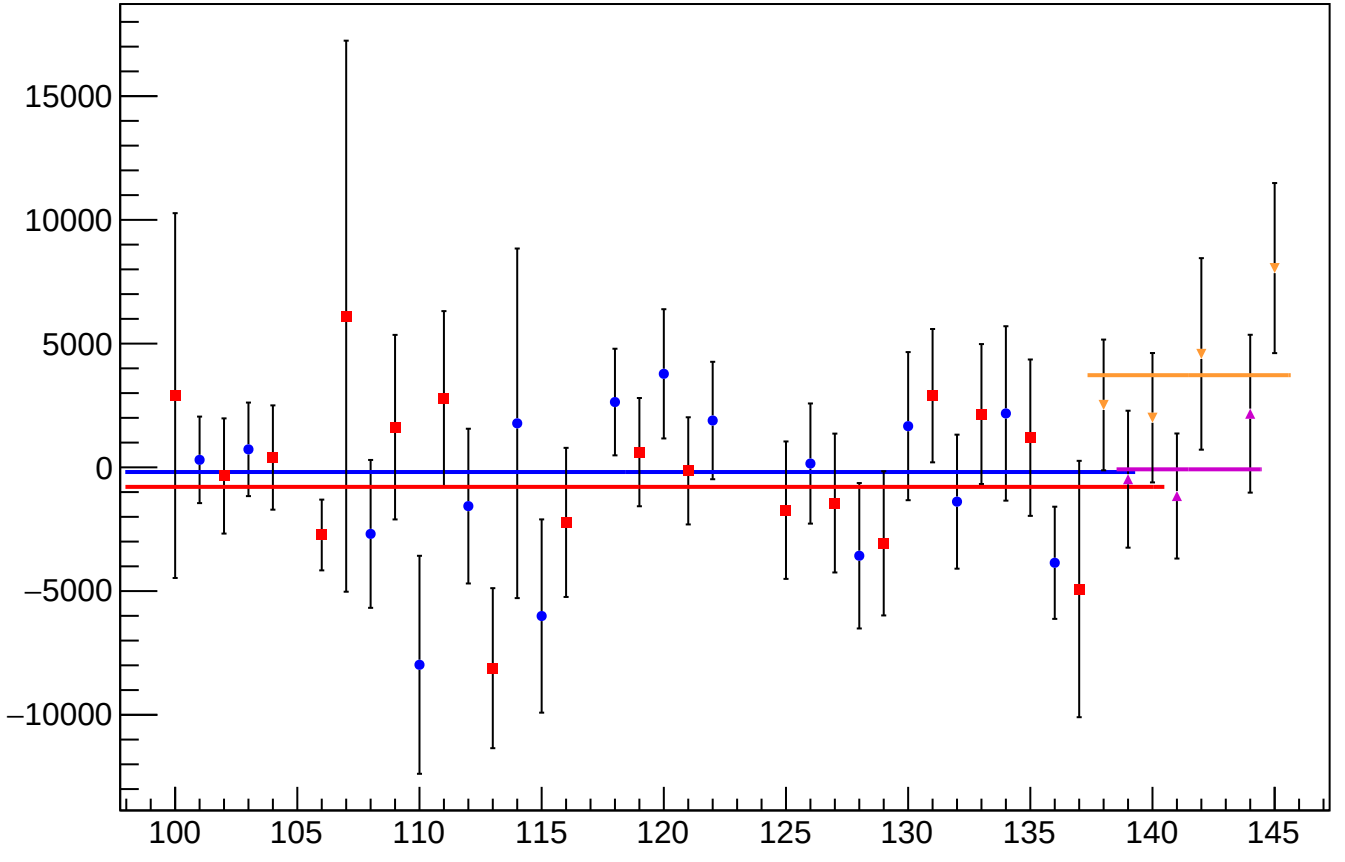
Right: 2321.844+/-0.437 $\chi^2$/NDF: 663951.9/33

In: 2277.657+/-0.519 $\chi^2$/NDF:523746.8/18

Out: 2287.433+/-0.511 $\chi^2$/NDF:166772.7/21

All: 2282.626+/-0.364 $\chi^2$/NDF: 690699.4/40

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: 3724.014+/-1505.591 $\chi^2$/NDF:2.3/3

Right Out: -789.317+/-634.900 $\chi^2$/NDF: 14.9/17

Left In: -80.050+/-1610.450 $\chi^2$/NDF:0.7/2

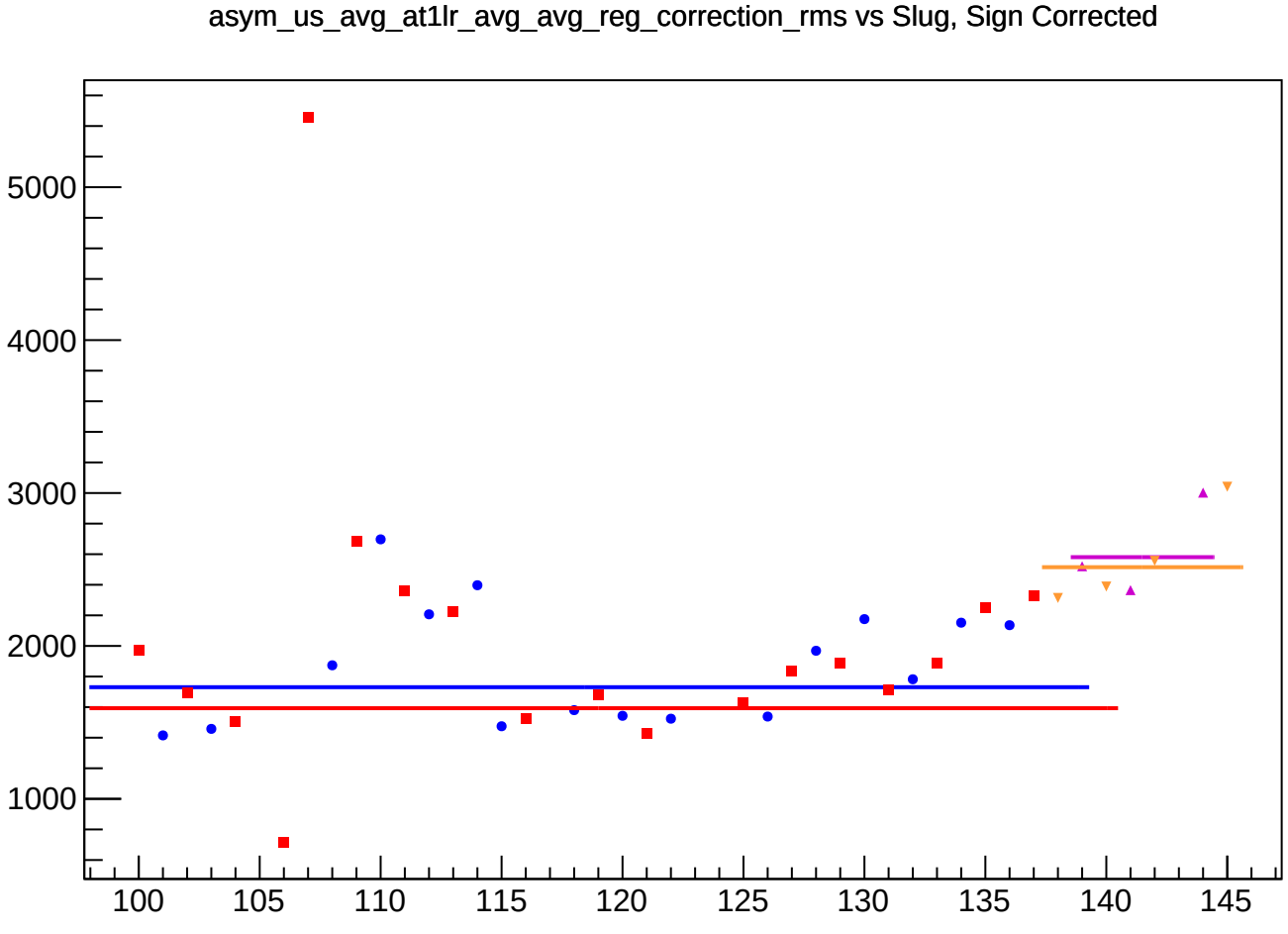
Left: 1949.848+/-1099.817 $\chi^2$/NDF: 6.0/6

Right: -499.869+/-457.002 $\chi^2$/NDF: 31.8/33

In: -173.109+/-609.383 $\chi^2$/NDF:17.1/18

Out: -107.901+/-585.012 $\chi^2$/NDF:24.8/21

All: -139.175+/-422.019 $\chi^2$/NDF: 42.0/40




Right In: 1730.288+/-0.466 $\chi^2$/NDF: 478932.0/15

Left Out: 2515.004+/-1.065 $\chi^2$/NDF:63408.3/3

Right Out: 1592.824+/-0.449 $\chi^2$/NDF: 1556204.8/17

Left In: 2580.607+/-1.139 $\chi^2$/NDF:50494.8/2

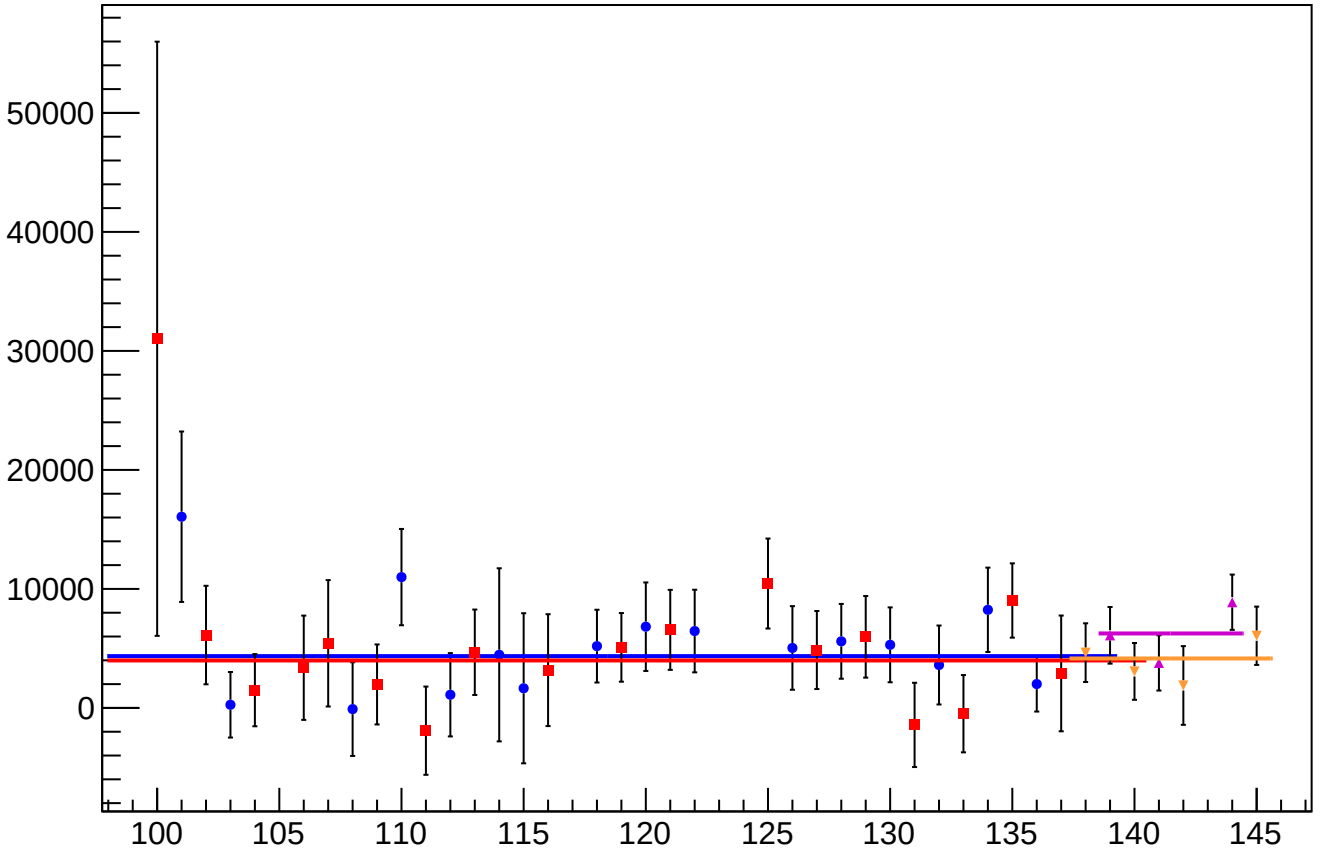
Left: 2545.600+/-0.778 $\chi^2$/NDF: 115674.1/6

Right: 1659.066+/-0.323 $\chi^2$/NDF: 2080315.9/33

In: 1852.038+/-0.431 $\chi^2$/NDF:1007163.5/18

Out: 1732.053+/-0.414 $\chi^2$/NDF:2256651.8/21

All: 1789.598+/-0.298 $\chi^2$/NDF: 3304164.1/40




Right In: 4353.670+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 4156.053+/-1292.996 $\chi^2$/NDF:1.3/3

Right Out: 3989.884+/-871.455 $\chi^2$/NDF: 16.1/17

Left In: 6258.076+/-1351.461 $\chi^2$/NDF:2.4/2

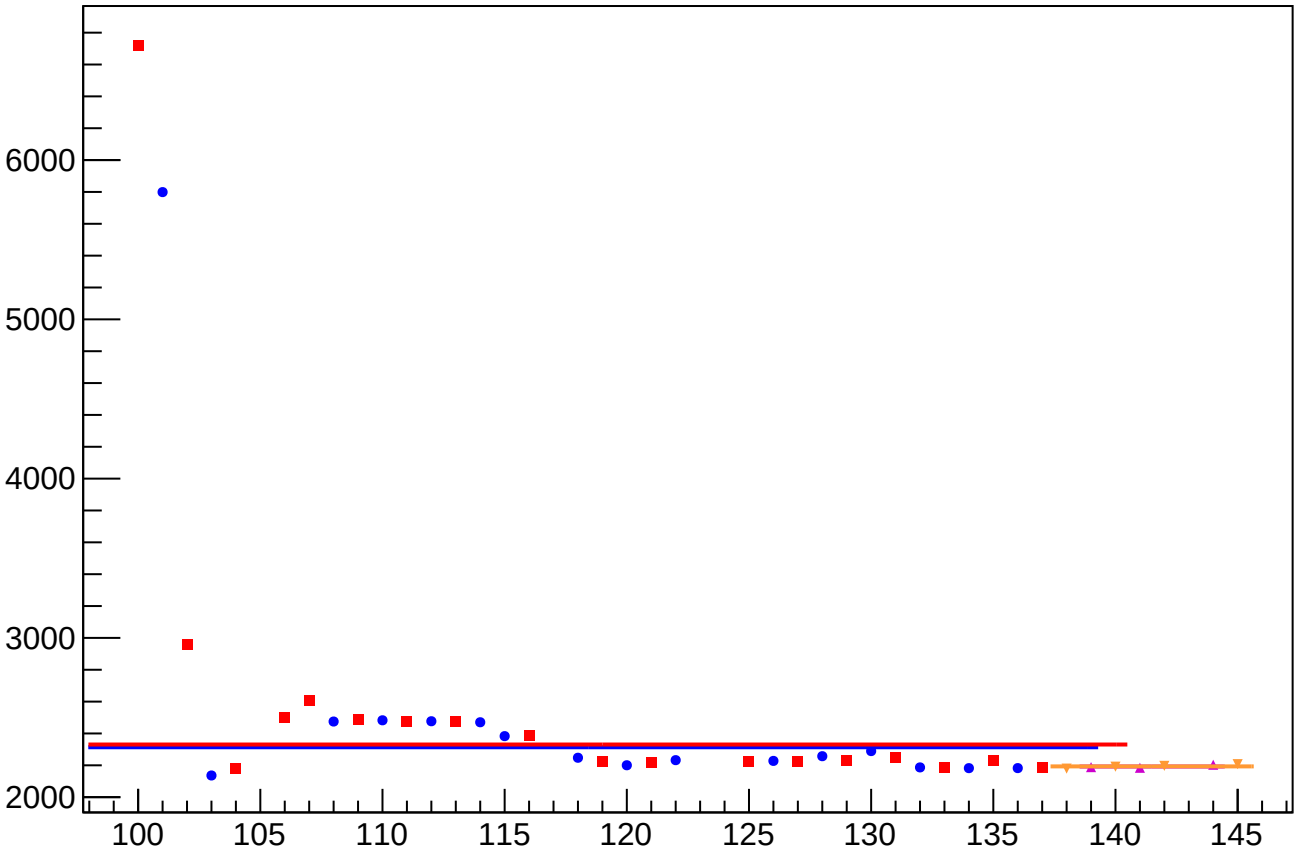
Left: 5160.614+/-934.271 $\chi^2$/NDF: 5.0/6

Right: 4171.006+/-617.516 $\chi^2$/NDF: 29.6/33

In: 4916.318+/-734.585 $\chi^2$/NDF:17.2/18

Out: 4041.789+/-722.646 $\chi^2$/NDF:17.5/21

All: 4471.889+/-515.157 $\chi^2$/NDF: 35.4/40




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512372.3/15

Left Out: 2193.251+/-0.914 $\chi^2$/NDF:132.3/3

Right Out: 2330.570+/-0.616 $\chi^2$/NDF: 151556.6/17

Left In: 2192.390+/-0.956 $\chi^2$/NDF:75.0/2

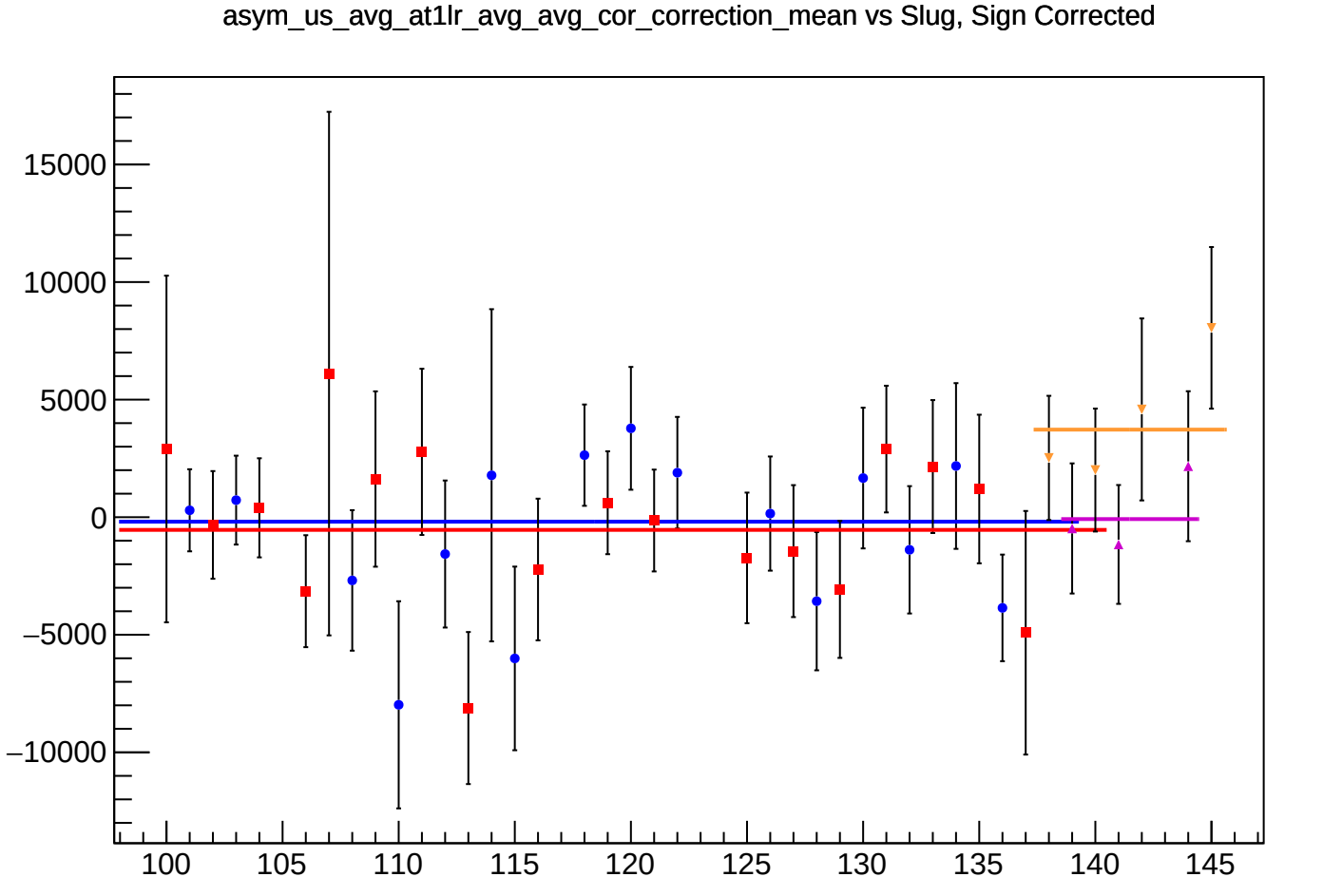
Left: 2192.840+/-0.661 $\chi^2$/NDF: 207.7/6

Right: 2322.028+/-0.437 $\chi^2$/NDF: 664314.8/33

In: 2277.657+/-0.519 $\chi^2$/NDF:523747.2/18

Out: 2287.677+/-0.511 $\chi^2$/NDF:167200.4/21

All: 2282.749+/-0.364 $\chi^2$/NDF: 691136.7/40




Right In: -189.762+/-658.205 $\chi^2$/NDF: 16.4/15

Left Out: 3724.088+/-1505.586 $\chi^2$/NDF:2.3/3

Right Out: -539.517+/-678.214 $\chi^2$/NDF: 13.9/17

Left In: -80.013+/-1610.453 $\chi^2$/NDF:0.7/2

Left: 1949.915+/-1099.816 $\chi^2$/NDF: 6.0/6

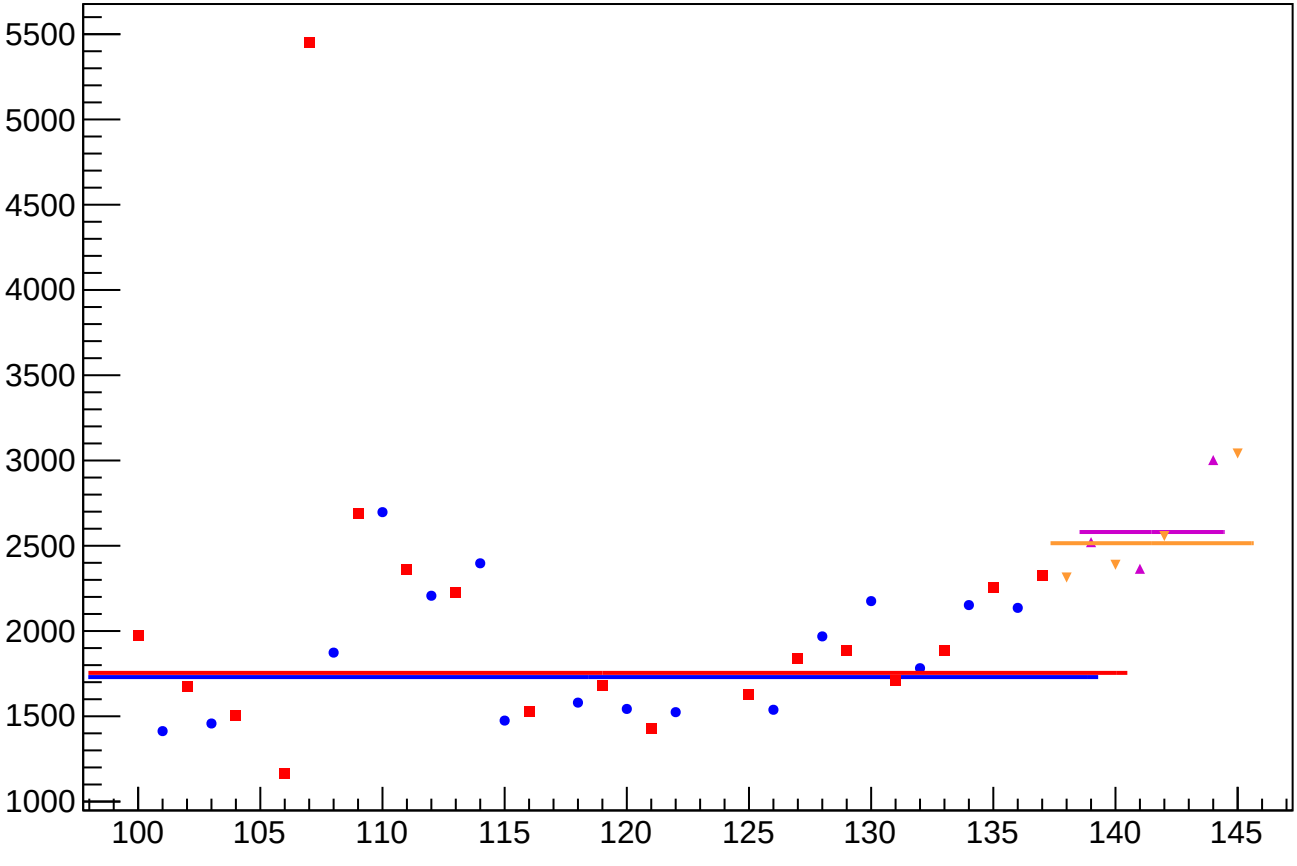
Right: -359.404+/-472.337 $\chi^2$/NDF: 30.5/33

In: -174.054+/-609.281 $\chi^2$/NDF:17.1/18

Out: 179.706+/-618.371 $\chi^2$/NDF:22.8/21

All: 0.207+/-434.005 $\chi^2$/NDF: 40.1/40

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: 2514.994+/-1.065 $\chi^2$/NDF:63406.0/3

Right Out: 1754.526+/-0.480 $\chi^2$/NDF: 751010.0/17

Left In: 2580.610+/-1.139 $\chi^2$/NDF:50496.8/2

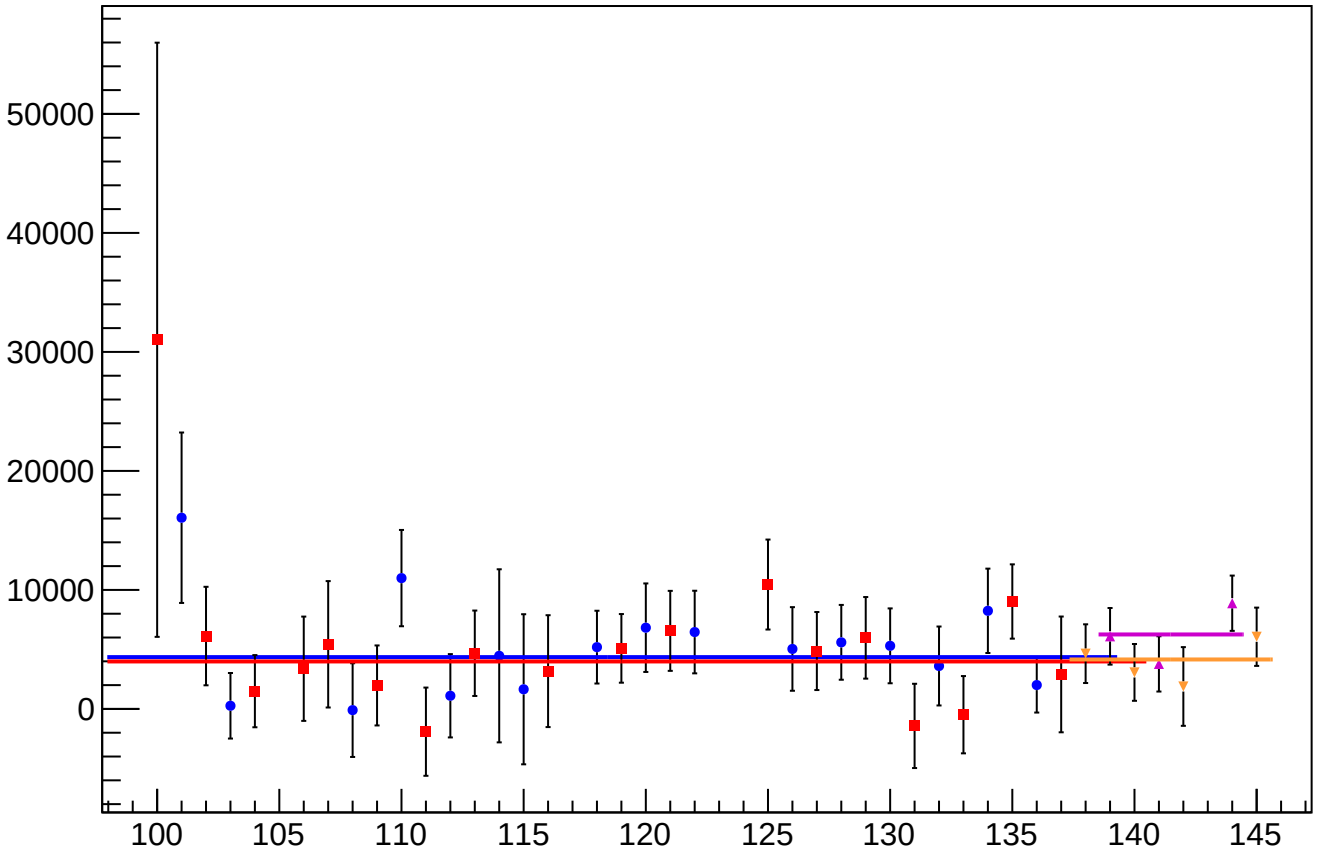
Left: 2545.596+/-0.778 $\chi^2$/NDF: 115674.5/6

Right: 1741.844+/-0.334 $\chi^2$/NDF: 1232266.3/33

In: 1851.663+/-0.431 $\chi^2$/NDF:1008597.8/18

Out: 1882.809+/-0.437 $\chi^2$/NDF:1238589.8/21

All: 1867.005+/-0.307 $\chi^2$/NDF: 2249762.0/40




Right In: 4353.670+/-875.155 $\chi^2$/NDF: 13.4/15

Left Out: 4156.053+/-1292.996 $\chi^2$/NDF:1.3/3

Right Out: 3989.884+/-871.455 $\chi^2$/NDF: 16.1/17

Left In: 6258.076+/-1351.461 $\chi^2$/NDF:2.4/2

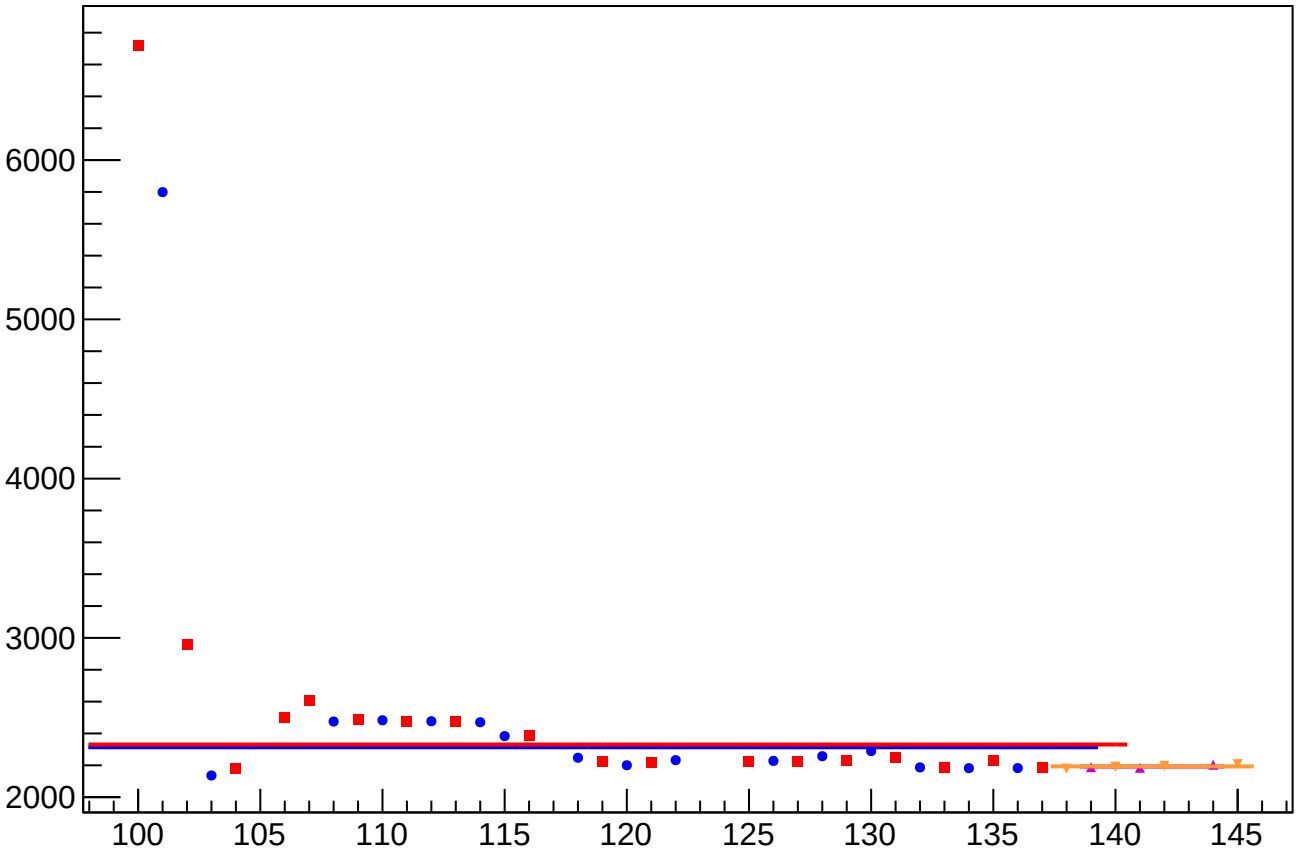
Left: 5160.614+/-934.271 $\chi^2$/NDF: 5.0/6

Right: 4171.006+/-617.516 $\chi^2$/NDF: 29.6/33

In: 4916.318+/-734.585 $\chi^2$/NDF:17.2/18

Out: 4041.789+/-722.646 $\chi^2$/NDF:17.5/21

All: 4471.889+/-515.157 $\chi^2$/NDF: 35.4/40




Right In: 2313.413+/-0.619 $\chi^2$/NDF: 512372.3/15

Left Out: 2193.251+/-0.914 $\chi^2$/NDF:132.3/3

Right Out: 2330.570+/-0.616 $\chi^2$/NDF: 151556.6/17

Left In: 2192.390+/-0.956 $\chi^2$/NDF:75.0/2

Left: 2192.840+/-0.661 $\chi^2$/NDF: 207.7/6

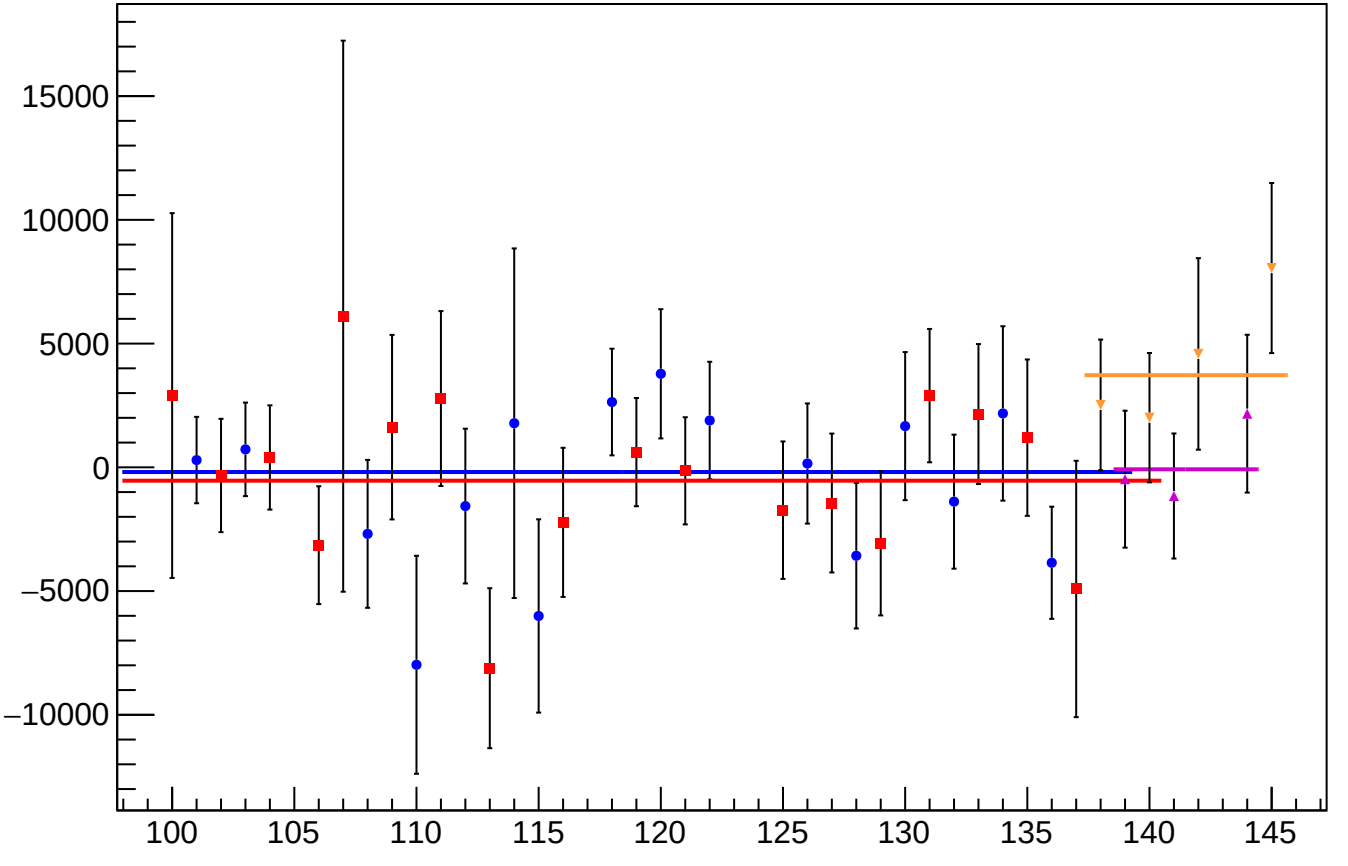
Right: 2322.028+/-0.437 $\chi^2$/NDF: 664314.8/33

In: 2277.657+/-0.519 $\chi^2$/NDF:523747.2/18

Out: 2287.677+/-0.511 $\chi^2$/NDF:167200.4/21

All: 2282.749+/-0.364 $\chi^2$/NDF: 691136.7/40

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: 3724.088+/-1505.586 $\chi^2$/NDF:2.3/3

Right Out: -539.517+/-678.214 $\chi^2$/NDF: 13.9/17

Left In: -80.013+/-1610.453 $\chi^2$/NDF:0.7/2

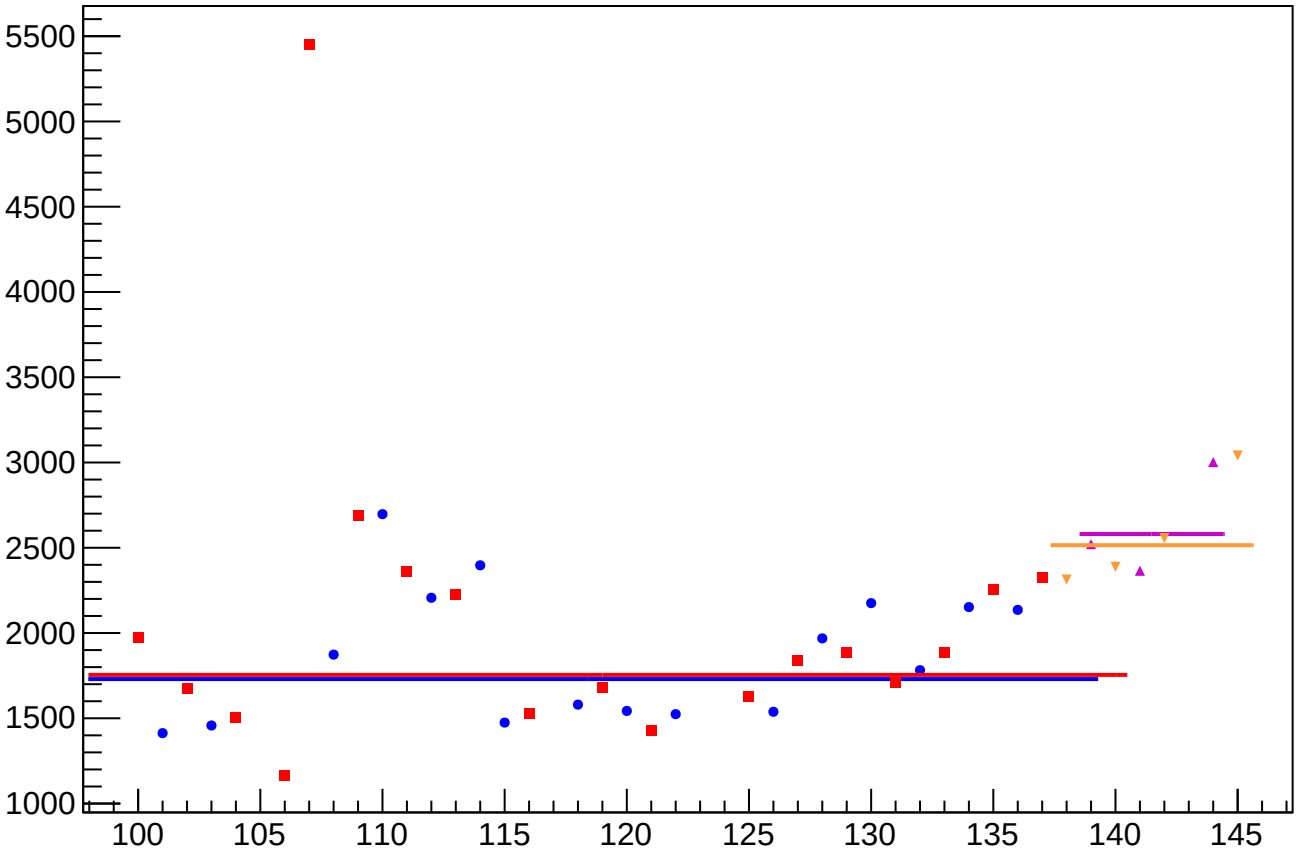
Left: 1949.915+/-1099.816 $\chi^2$/NDF: 6.0/6

Right: -359.404+/-472.337 $\chi^2$/NDF: 30.5/33

In: -174.054+/-609.281 $\chi^2$/NDF:17.1/18

Out: 179.706+/-618.371 $\chi^2$/NDF:22.8/21

All: 0.207+/-434.005 $\chi^2$/NDF: 40.1/40




Right In: 1729.898+/-0.465 $\chi^2$/NDF: 479898.2/15

Left Out: 2514.994+/-1.065 $\chi^2$/NDF:63406.0/3

Right Out: 1754.526+/-0.480 $\chi^2$/NDF: 751010.0/17

Left In: 2580.610+/-1.139 $\chi^2$/NDF:50496.8/2

Left: 2545.596+/-0.778 $\chi^2$/NDF: 115674.5/6

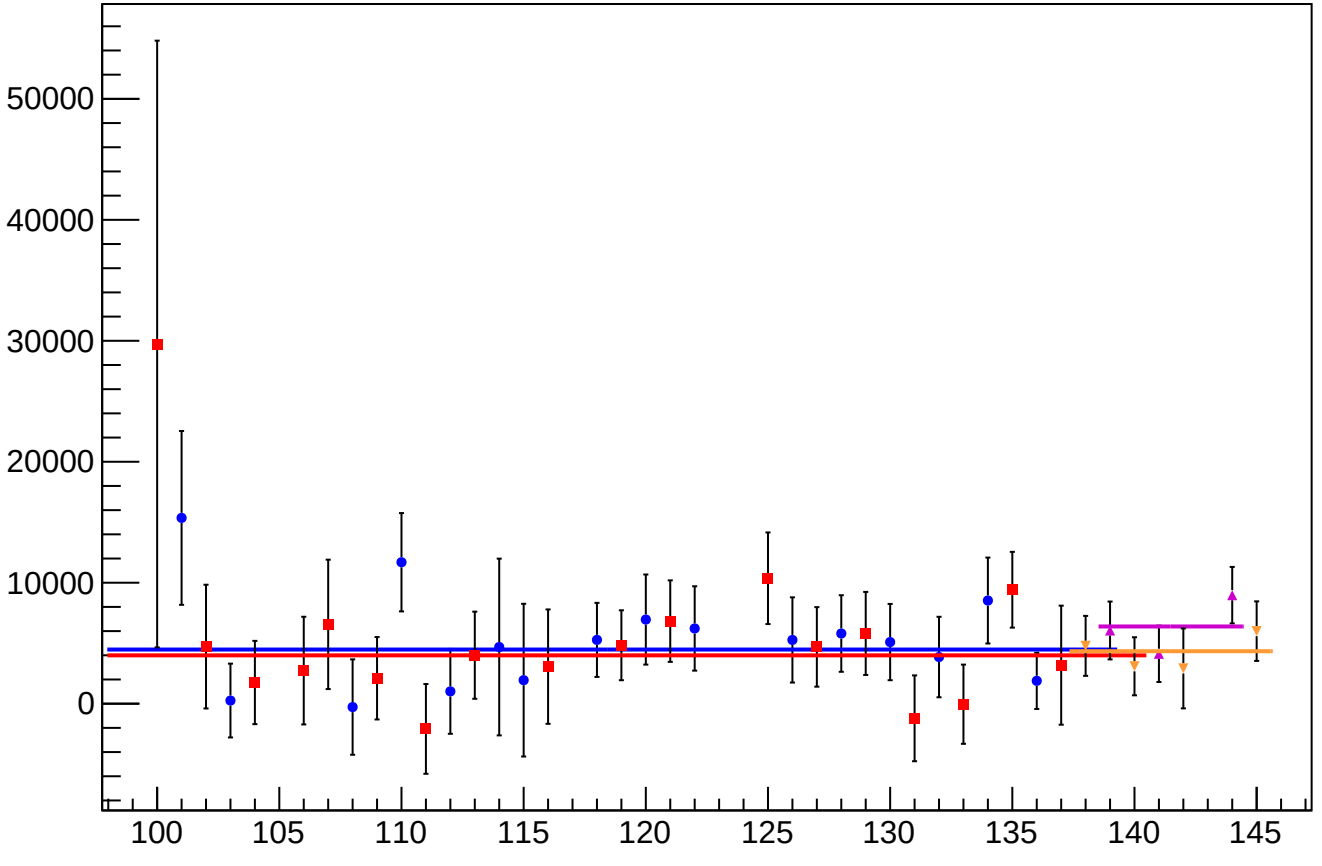
Right: 1741.844+/-0.334 $\chi^2$/NDF: 1232266.3/33

In: 1851.663+/-0.431 $\chi^2$/NDF:1008597.8/18

Out: 1882.809+/-0.437 $\chi^2$/NDF:1238589.8/21

All: 1867.005+/-0.307 $\chi^2$/NDF: 2249762.0/40

dit_asym_us_avg_at1lr_avg_avg_mean vs Slug, Sign Corrected




Right In: 4476.431+/-886.087 $\chi^2$/NDF: 13.5/15

Left Out: 4337.589+/-1298.581 $\chi^2$/NDF:0.9/3

Right Out: 3995.807+/-890.441 $\chi^2$/NDF: 15.5/17

Left In: 6383.218+/-1357.652 $\chi^2$/NDF:2.2/2

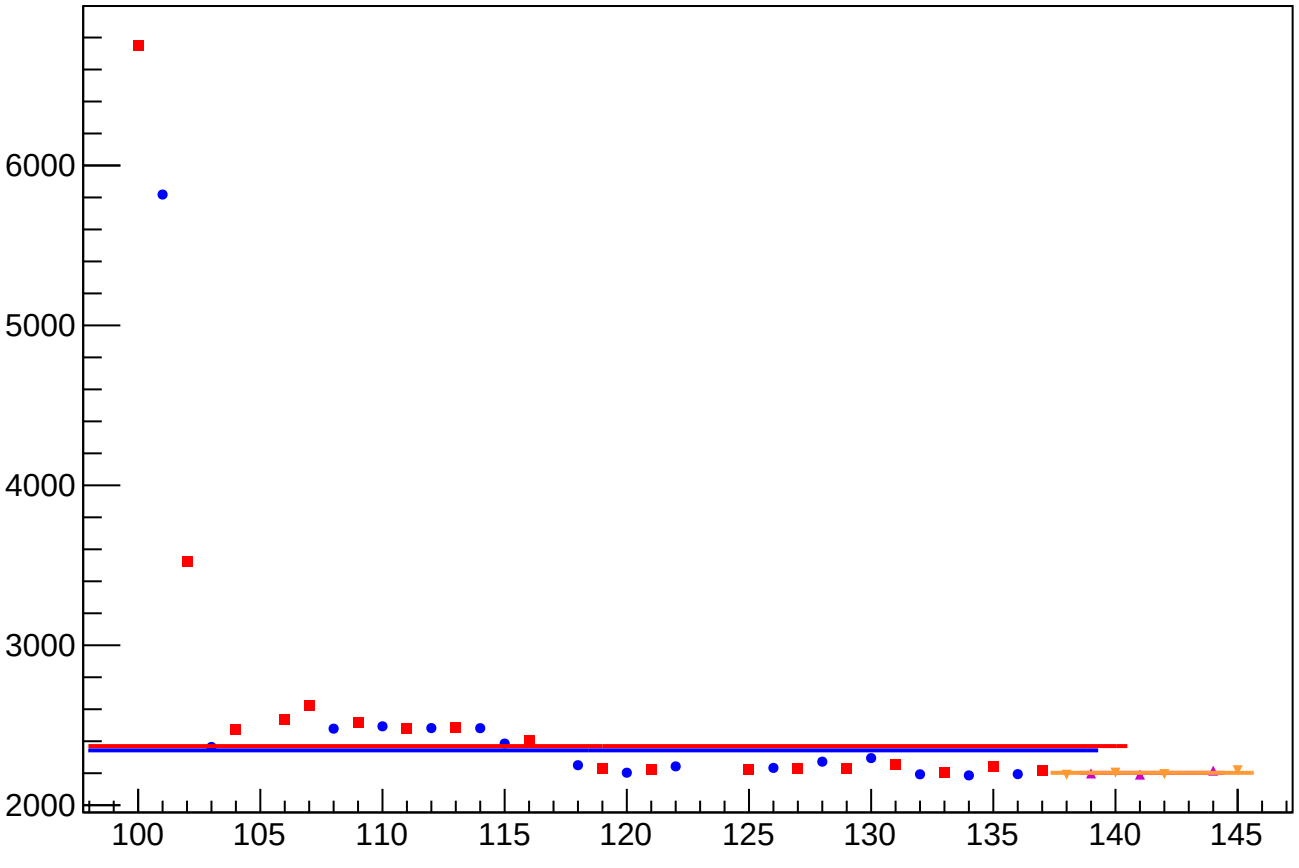
Left: 5314.934+/-938.423 $\chi^2$/NDF: 4.3/6

Right: 4237.297+/-628.092 $\chi^2$/NDF: 29.2/33

In: 5046.029+/-742.030 $\chi^2$/NDF:17.1/18

Out: 4105.114+/-734.376 $\chi^2$/NDF:16.5/21

All: 4570.694+/-521.967 $\chi^2$/NDF: 34.4/40




Right In: 2342.914+/-0.627 $\chi^2$/NDF: 502866.3/15

Left Out: 2202.423+/-0.918 $\chi^2$/NDF:143.9/3

Right Out: 2369.572+/-0.630 $\chi^2$/NDF: 210147.5/17

Left In: 2202.173+/-0.960 $\chi^2$/NDF:119.2/2

Left: 2202.304+/-0.664 $\chi^2$/NDF: 263.1/6

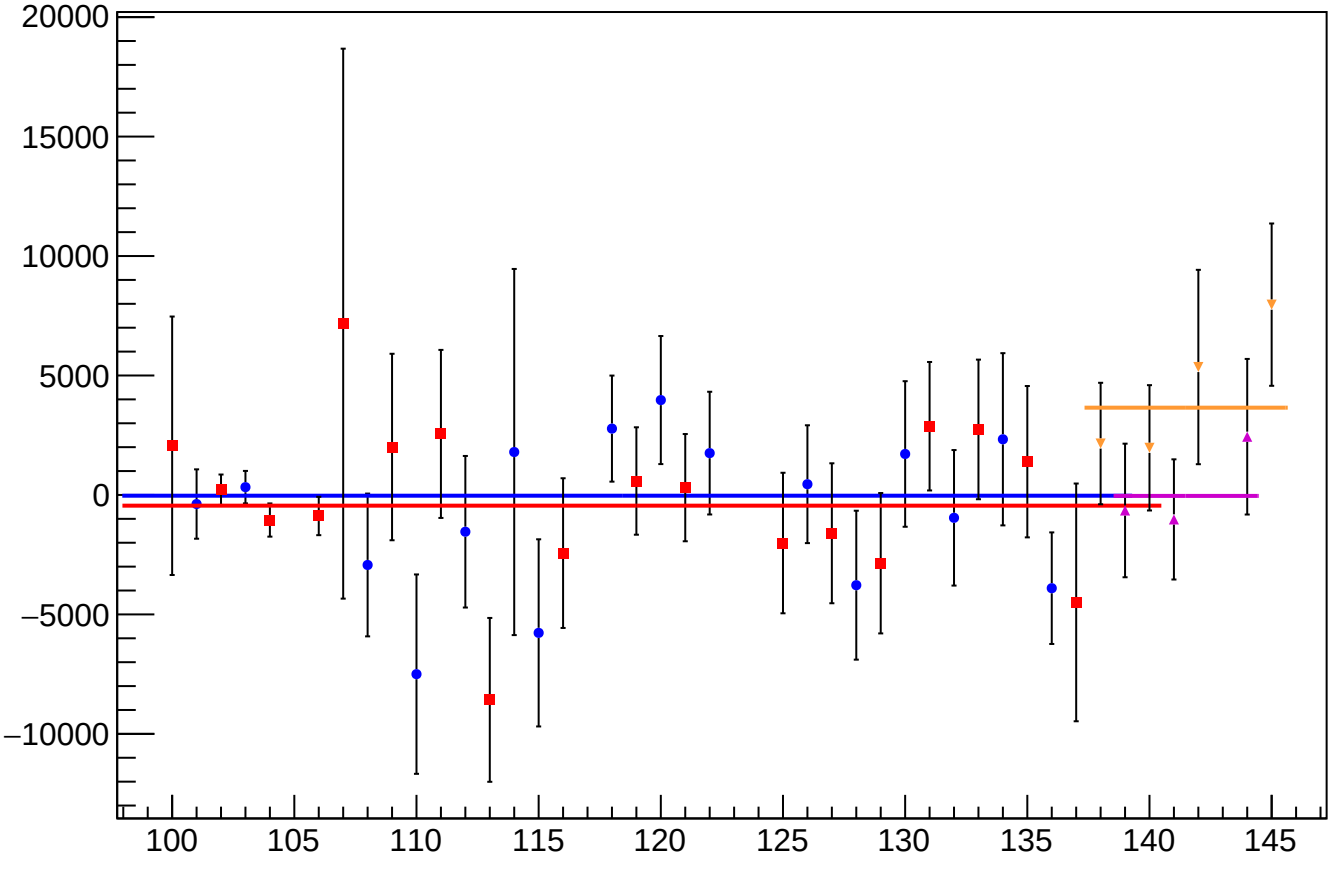
Right: 2356.178+/-0.444 $\chi^2$/NDF: 713914.5/33

In: 2300.872+/-0.525 $\chi^2$/NDF:518057.9/18

Out: 2316.116+/-0.519 $\chi^2$/NDF:232830.0/21

All: 2308.573+/-0.369 $\chi^2$/NDF: 751314.4/40

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: 3653.242+/-1495.332 $\chi^2$/NDF:2.5/3

Right Out: -448.261+/-362.570 $\chi^2$/NDF: 15.1/17

Left In: -39.869+/-1621.418 $\chi^2$/NDF:0.8/2

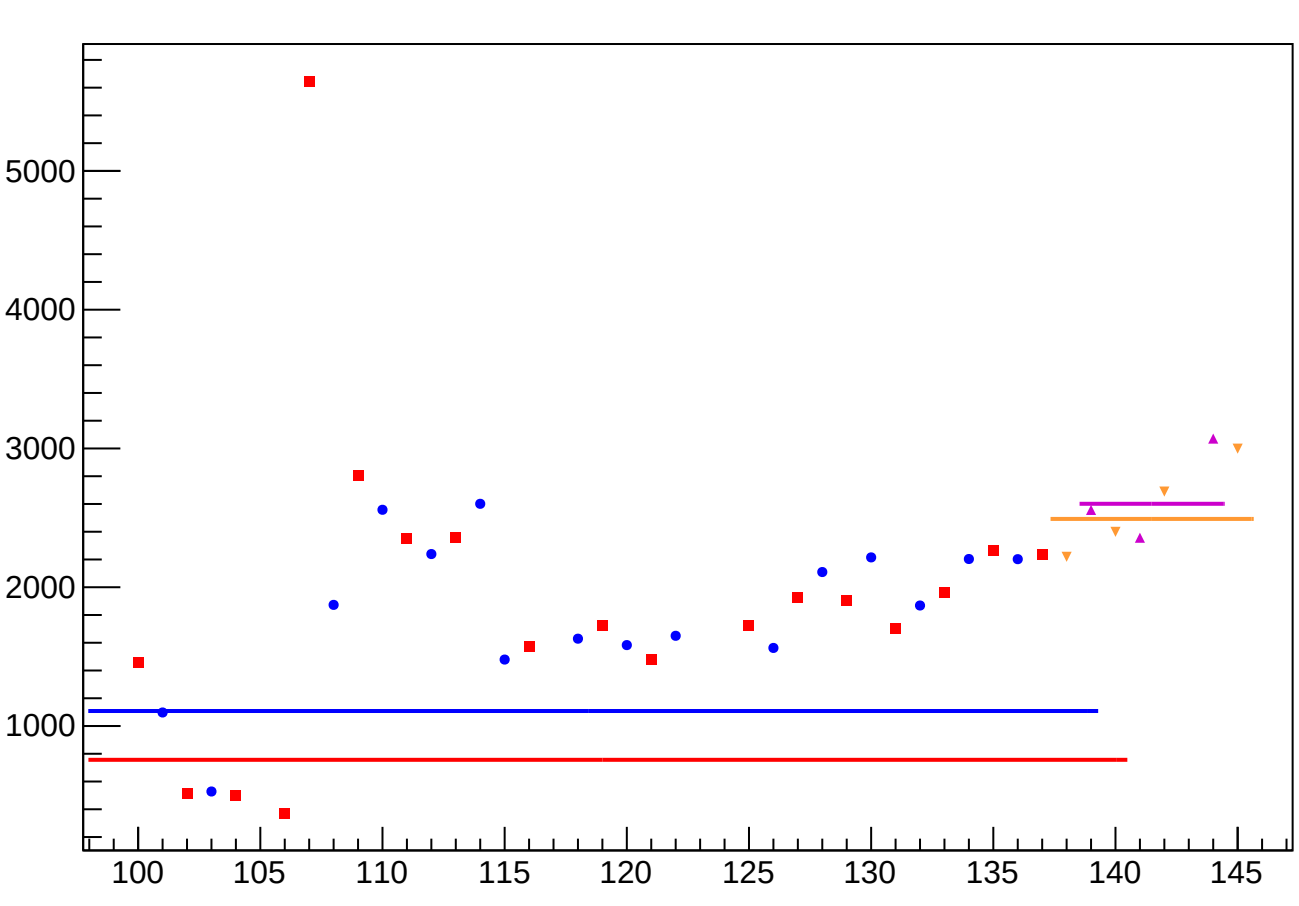
Left: 1955.845+/-1099.235 $\chi^2$/NDF: 6.1/6

Right: -298.942+/-290.465 $\chi^2$/NDF: 31.9/33

In: -32.090+/-464.947 $\chi^2$/NDF:17.1/18

Out: -220.520+/-352.360 $\chi^2$/NDF:24.7/21

All: -151.778+/-280.827 $\chi^2$/NDF: 41.9/40




Right In: 1108.139+/-0.343 $\chi^2$/NDF: 3746477.0/15

Left Out: 2492.320+/-1.057 $\chi^2$/NDF:74705.3/3

Right Out: 756.419+/-0.256 $\chi^2$/NDF: 5603215.5/17

Left In: 2601.358+/-1.147 $\chi^2$/NDF:61032.8/2

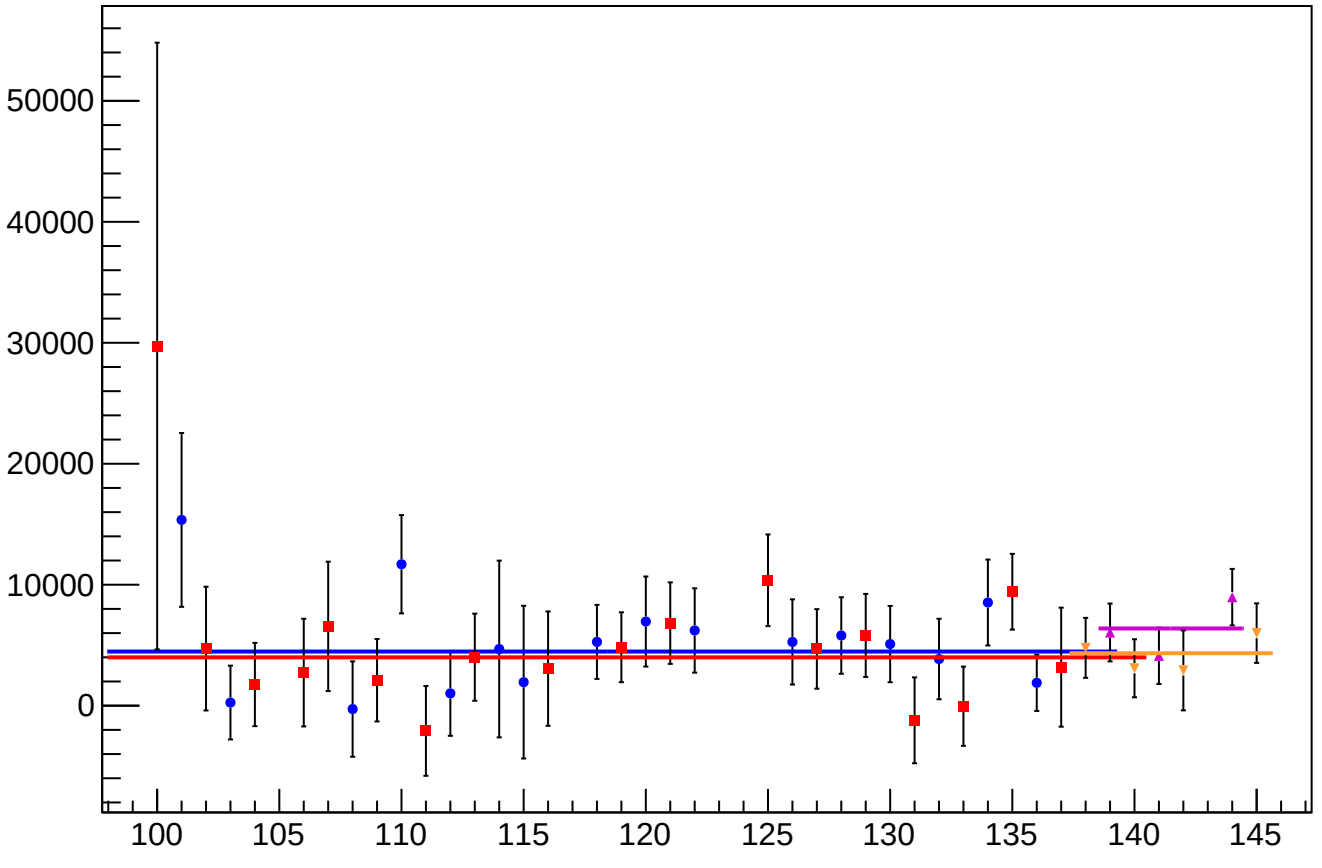
Left: 2542.435+/-0.777 $\chi^2$/NDF: 140625.7/6

Right: 882.403+/-0.205 $\chi^2$/NDF: 10023844.2/33

In: 1230.923+/-0.329 $\chi^2$/NDF:5364269.9/18

Out: 852.807+/-0.249 $\chi^2$/NDF:8223548.3/21

All: 990.748+/-0.199 $\chi^2$/NDF: 14428002.6/40




Right In: 4476.427+/-886.086 $\chi^2$/NDF: 13.5/15

Left Out: 4337.600+/-1298.580 $\chi^2$/NDF:0.9/3

Right Out: 3995.803+/-890.441 $\chi^2$/NDF: 15.5/17

Left In: 6383.217+/-1357.652 $\chi^2$/NDF:2.2/2

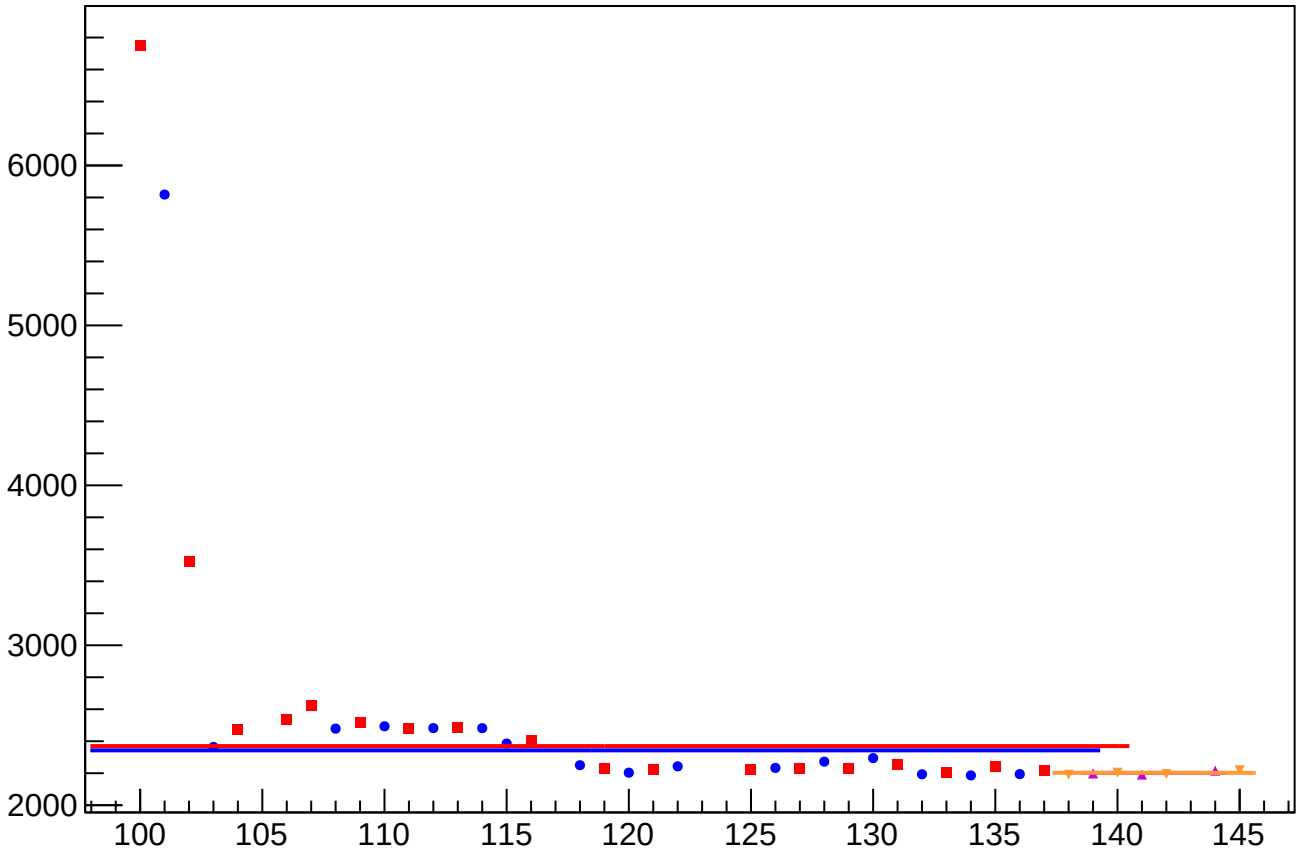
Left: 5314.939+/-938.423 $\chi^2$/NDF: 4.3/6

Right: 4237.293+/-628.092 $\chi^2$/NDF: 29.2/33

In: 5046.026+/-742.030 $\chi^2$/NDF:17.1/18

Out: 4105.115+/-734.376 $\chi^2$/NDF:16.5/21

All: 4570.693+/-521.967 $\chi^2$/NDF: 34.4/40




Right In: 2342.913+/-0.627 $\chi^2$/NDF: 502866.3/15

Left Out: 2202.423+/-0.918 $\chi^2$/NDF:143.9/3

Right Out: 2369.572+/-0.630 $\chi^2$/NDF: 210146.5/17

Left In: 2202.173+/-0.960 $\chi^2$/NDF:119.2/2

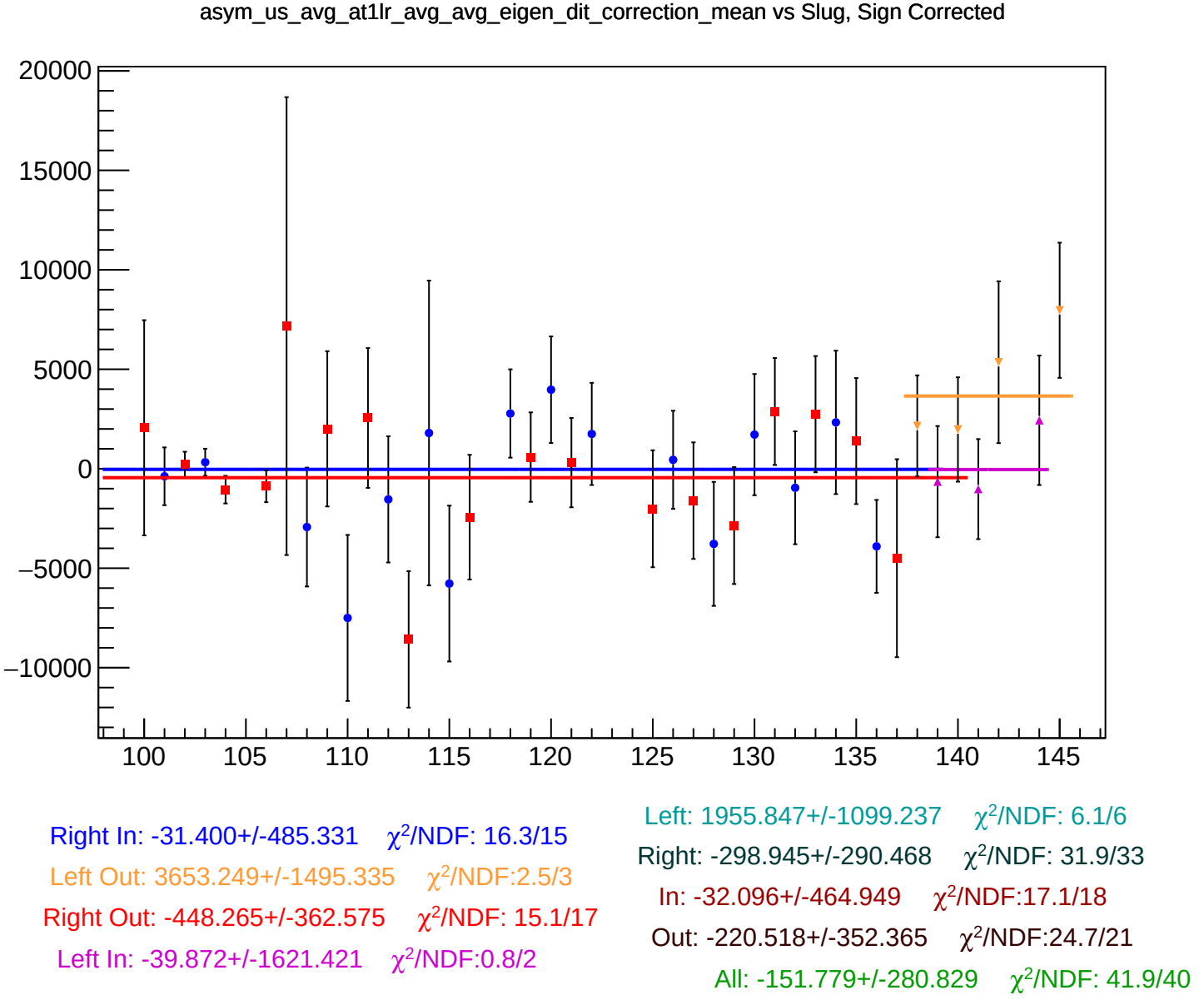
Left: 2202.304+/-0.664 $\chi^2$/NDF: 263.1/6

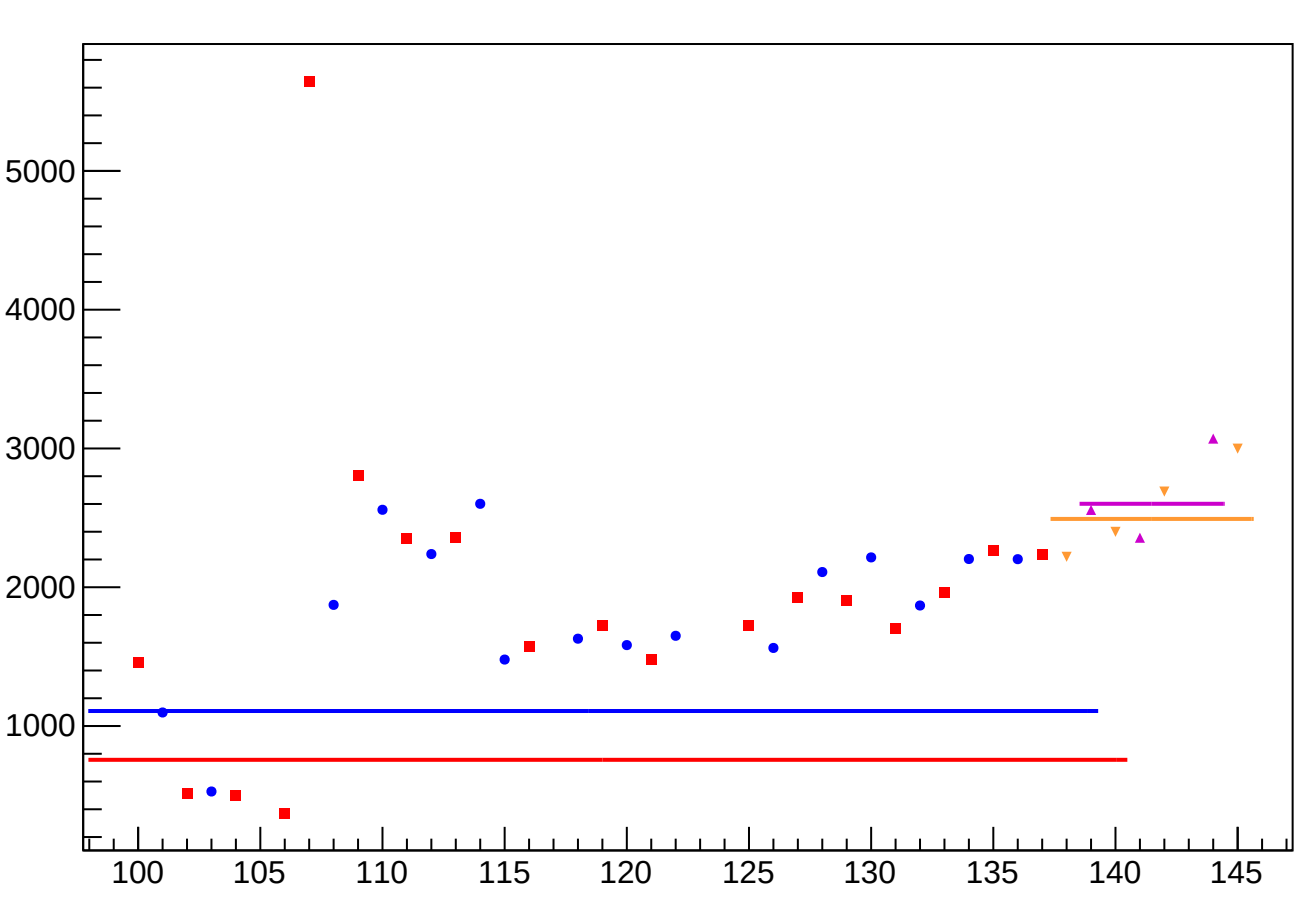
Right: 2356.177+/-0.444 $\chi^2$/NDF: 713913.5/33

In: 2300.871+/-0.525 $\chi^2$/NDF:518057.8/18

Out: 2316.115+/-0.519 $\chi^2$/NDF:232828.8/21

All: 2308.572+/-0.369 $\chi^2$/NDF: 751313.1/40


asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -31.400+/-485.331 χ²/NDF: 16.3/15
Left Out: 3653.249+/-1495.335 χ²/NDF:2.5/3
Right Out: -448.265+/-362.575 χ²/NDF: 15.1/17
Left In: -39.872+/-1621.421 χ²/NDF:0.8/2
Left: 1955.847+/-1099.237 χ²/NDF: 6.1/6
Right: -298.945+/-290.468 χ²/NDF: 31.9/33
In: -32.096+/-464.949 χ²/NDF:17.1/18
Out: -220.518+/-352.365 χ²/NDF:24.7/21
All: -151.779+/-280.829 χ²/NDF: 41.9/40




Right In: 1108.149+/-0.343 $\chi^2$/NDF: 3746402.0/15

Left Out: 2492.325+/-1.057 $\chi^2$/NDF:74705.6/3

Right Out: 756.434+/-0.256 $\chi^2$/NDF: 5603097.5/17

Left In: 2601.362+/-1.147 $\chi^2$/NDF:61033.1/2

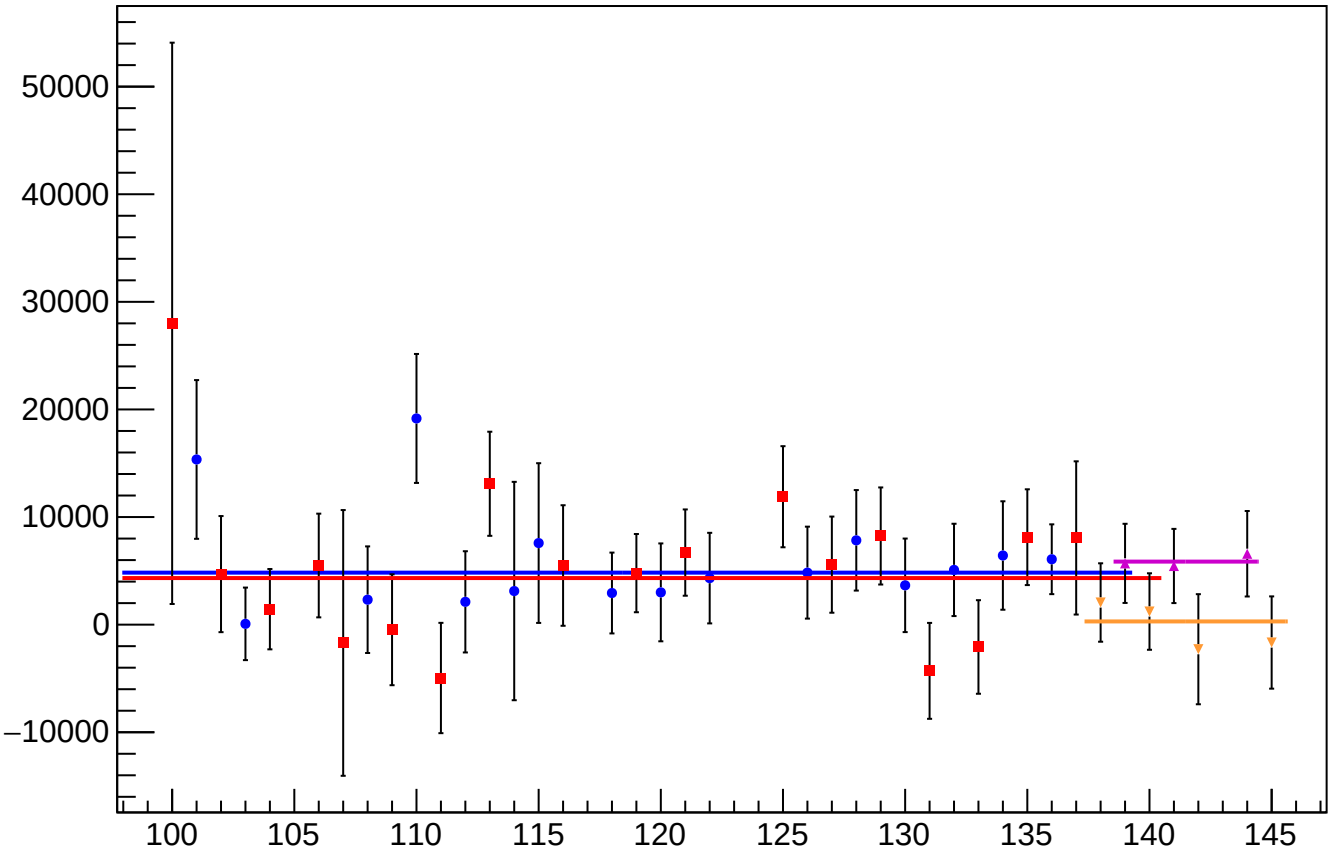
Left: 2542.440+/-0.777 $\chi^2$/NDF: 140626.2/6

Right: 882.417+/-0.205 $\chi^2$/NDF: 10023620.2/33

In: 1230.933+/-0.329 $\chi^2$/NDF:5364177.5/18

Out: 852.824+/-0.249 $\chi^2$/NDF:8223386.4/21

All: 990.764+/-0.199 $\chi^2$/NDF: 14427707.1/40




Right In: 4833.806+/-1142.535 $\chi^2$/NDF: 11.7/15

Left Out: 298.892+/-2011.875 $\chi^2$/NDF:0.8/3

Right Out: 4328.601+/-1144.541 $\chi^2$/NDF: 19.9/17

Left In: 5858.466+/-2125.124 $\chi^2$/NDF:0.0/2

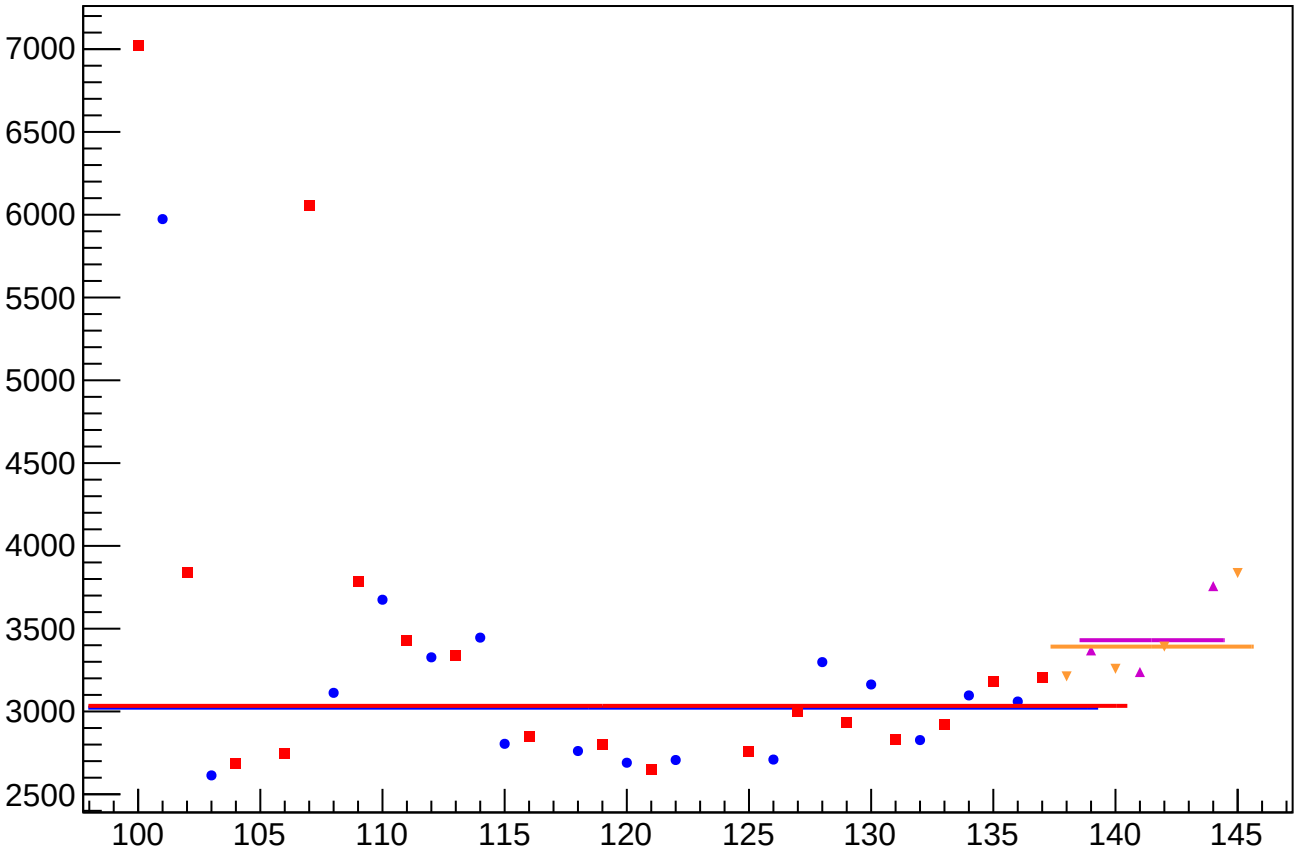
Left: 2926.602+/-1461.007 $\chi^2$/NDF: 4.4/6

Right: 4581.647+/-808.603 $\chi^2$/NDF: 31.7/33

In: 5063.570+/-1006.317 $\chi^2$/NDF:11.9/18

Out: 3343.309+/-994.825 $\chi^2$/NDF:23.7/21

All: 4193.561+/-707.476 $\chi^2$/NDF: 37.1/40




Right In: 3023.068+/-0.808 $\chi^2$/NDF: 443705.8/15

Left Out: 3391.695+/-1.423 $\chi^2$/NDF:29194.0/3

Right Out: 3033.869+/-0.809 $\chi^2$/NDF: 342674.7/17

Left In: 3430.415+/-1.503 $\chi^2$/NDF:20297.0/2

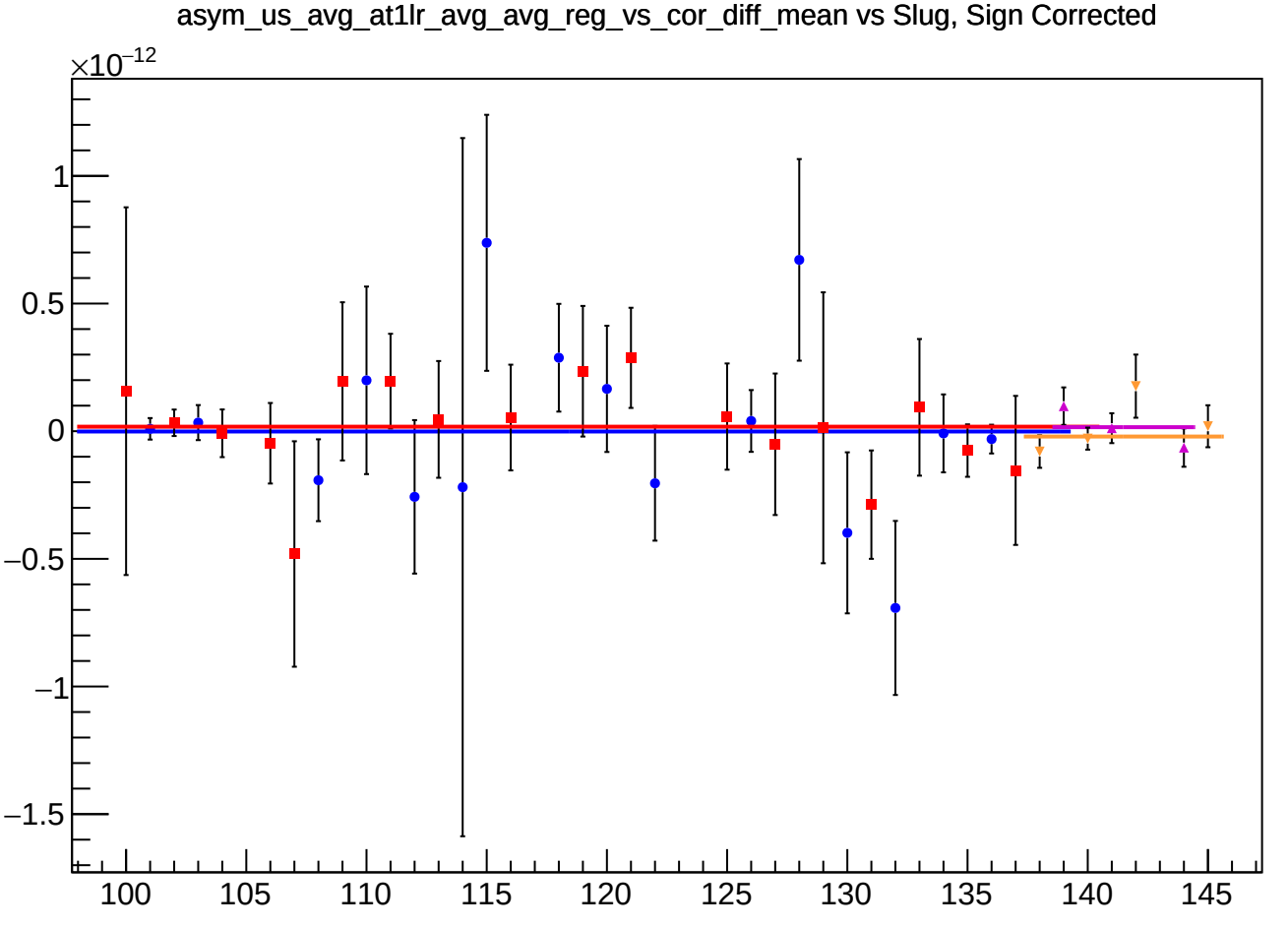
Left: 3409.996+/-1.033 $\chi^2$/NDF: 49841.2/6

Right: 3028.459+/-0.572 $\chi^2$/NDF: 786469.7/33

In: 3114.409+/-0.712 $\chi^2$/NDF:521008.9/18

Out: 3121.359+/-0.703 $\chi^2$/NDF:419666.1/21

All: 3117.924+/-0.500 $\chi^2$/NDF: 940723.2/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.7/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.4/2

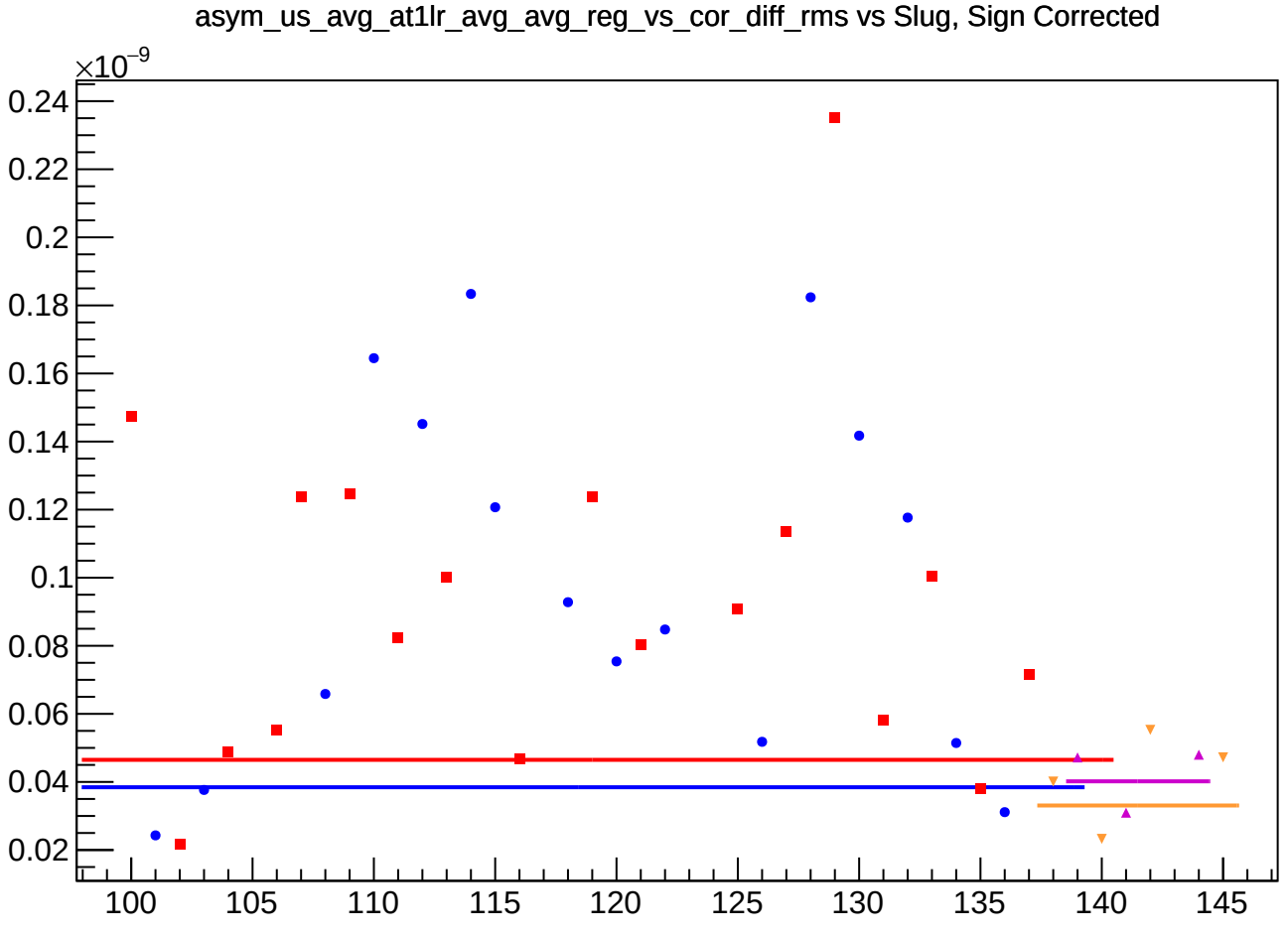
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.6/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.3/33

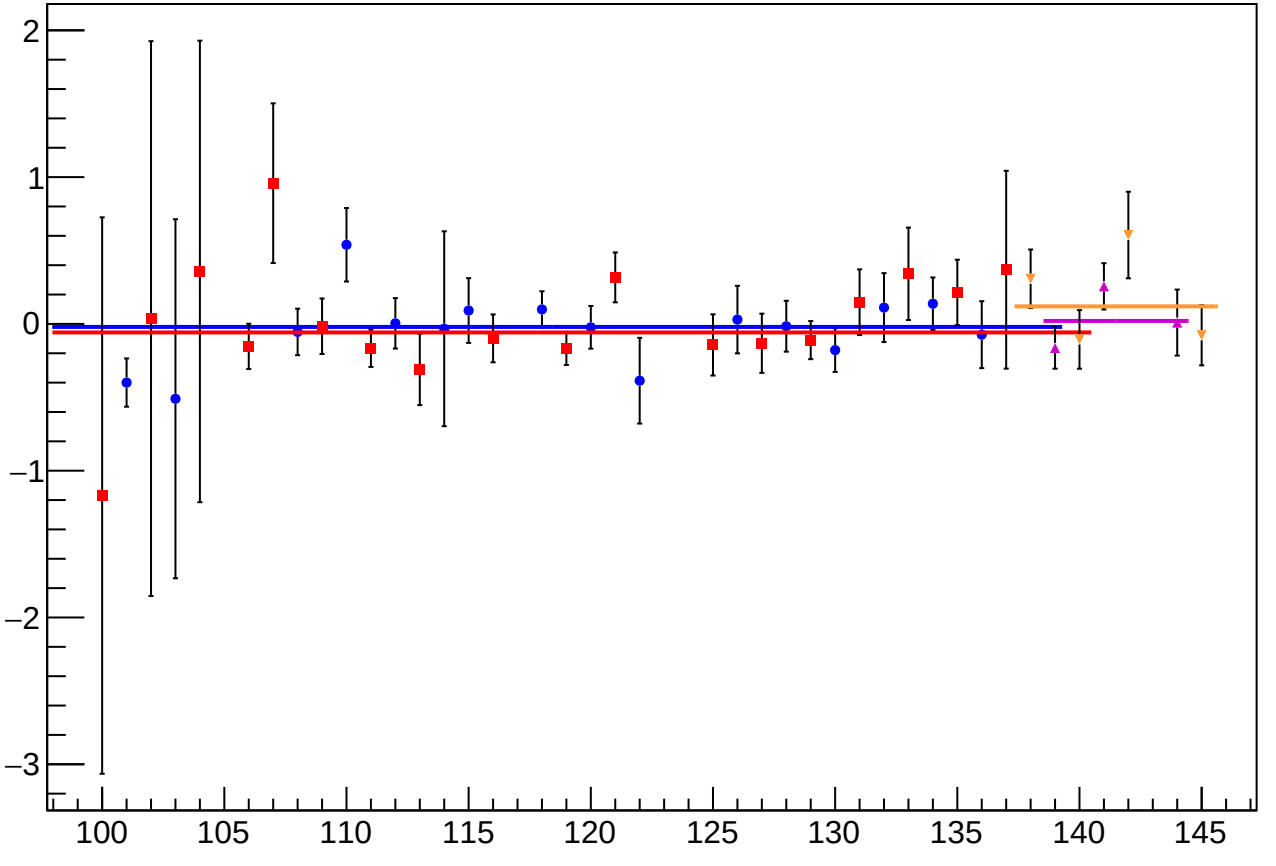
In: 0.000+/-0.000 $\chi^2$/NDF:19.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:13.3/21

All: 0.000+/-0.000 $\chi^2$/NDF: 33.0/40


asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1771405.2/15
Left Out: 0.000+/-0.000 χ²/NDF:251300.2/3
Right Out: 0.000+/-0.000 χ²/NDF: 1697135.5/17
Left In: 0.000+/-0.000 χ²/NDF:89553.7/2
Left: 0.000+/-0.000 χ²/NDF: 380663.5/6
Right: 0.000+/-0.000 χ²/NDF: 3535596.3/33
In: 0.000+/-0.000 χ²/NDF:1863618.0/18
Out: 0.000+/-0.000 χ²/NDF:2112319.1/21
All: 0.000+/-0.000 χ²/NDF: 3976017.0/40

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: 0.120+/-0.108 $\chi^2$/NDF:5.8/3

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: 0.020+/-0.095 $\chi^2$/NDF:3.9/2

Left: 0.064+/-0.071 $\chi^2$/NDF: 10.2/6

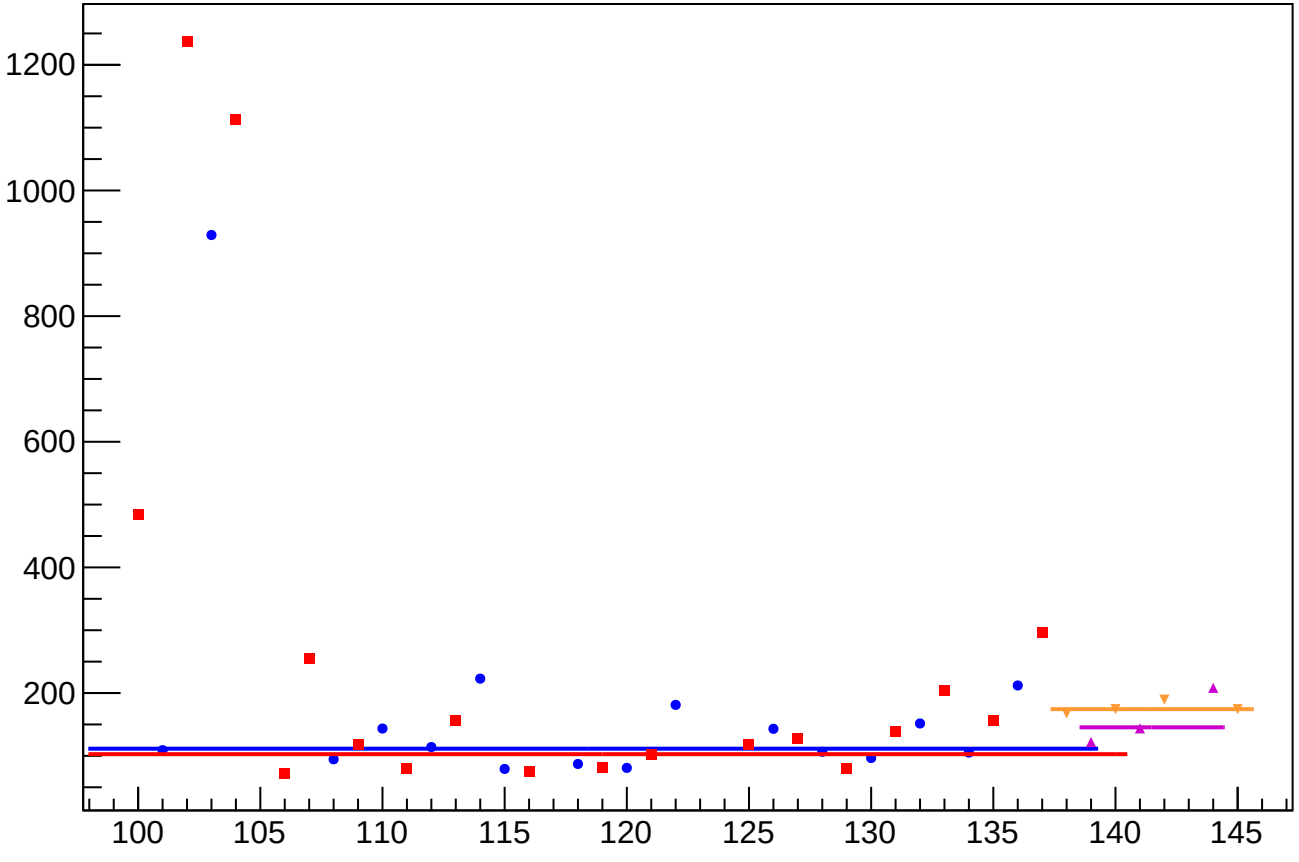
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.012+/-0.043 $\chi^2$/NDF:19.7/18

Out: -0.030+/-0.043 $\chi^2$/NDF:24.9/21

All: -0.021+/-0.030 $\chi^2$/NDF: 44.7/40

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: 174.367+/-0.076 $\chi^2$/NDF:7643.1/3

Right Out: 102.673+/-0.033 $\chi^2$/NDF: 2826852.7/17

Left In: 145.450+/-0.067 $\chi^2$/NDF:211088.9/2

Left: 158.084+/-0.051 $\chi^2$/NDF: 299219.8/6

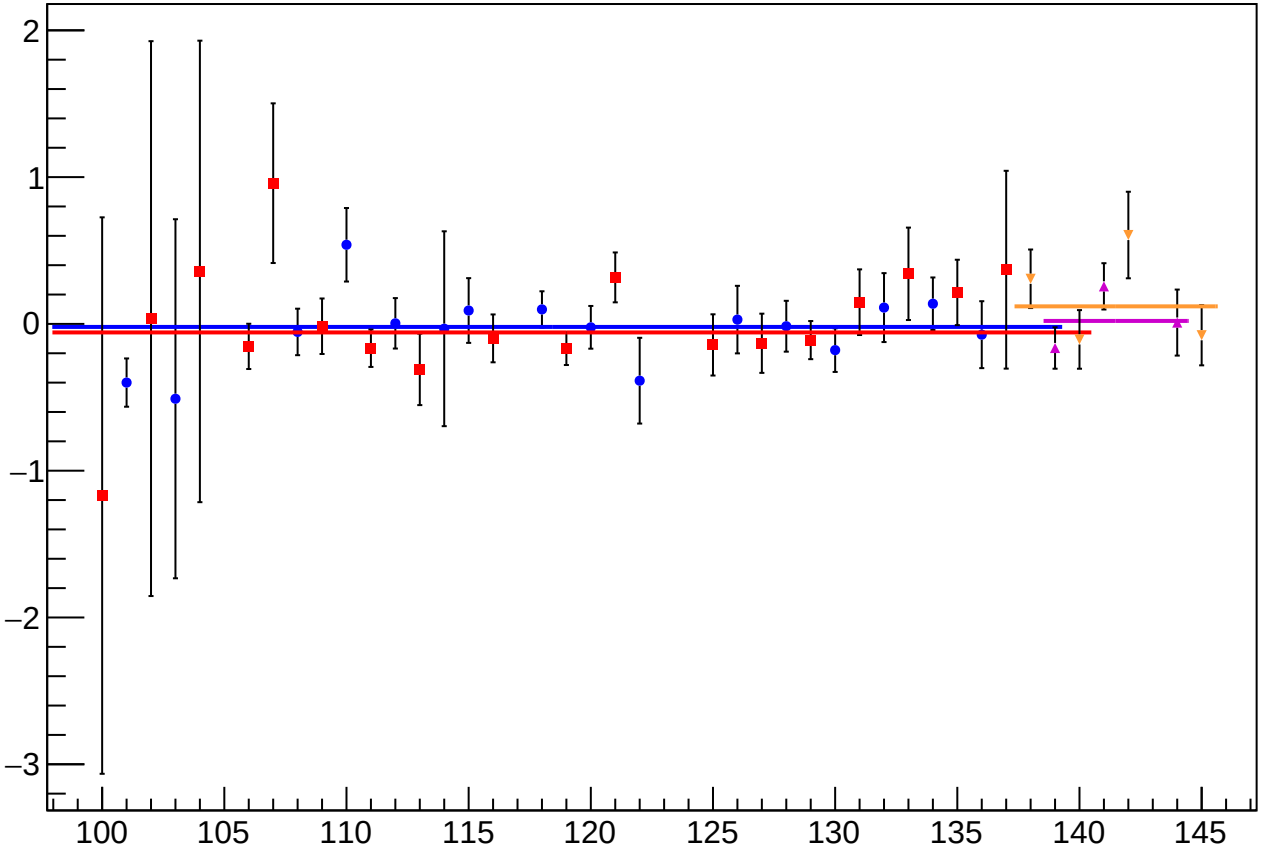
Right: 106.926+/-0.024 $\chi^2$/NDF: 4700716.0/33

In: 118.212+/-0.030 $\chi^2$/NDF:2254724.9/18

Out: 113.816+/-0.030 $\chi^2$/NDF:3576563.1/21

All: 116.017+/-0.021 $\chi^2$/NDF: 5841925.8/40

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.021+/-0.048 $\chi^2$/NDF: 15.6/15

Left Out: 0.120+/-0.108 $\chi^2$/NDF:5.8/3

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: 0.020+/-0.095 $\chi^2$/NDF:3.9/2

Left: 0.064+/-0.071 $\chi^2$/NDF: 10.2/6

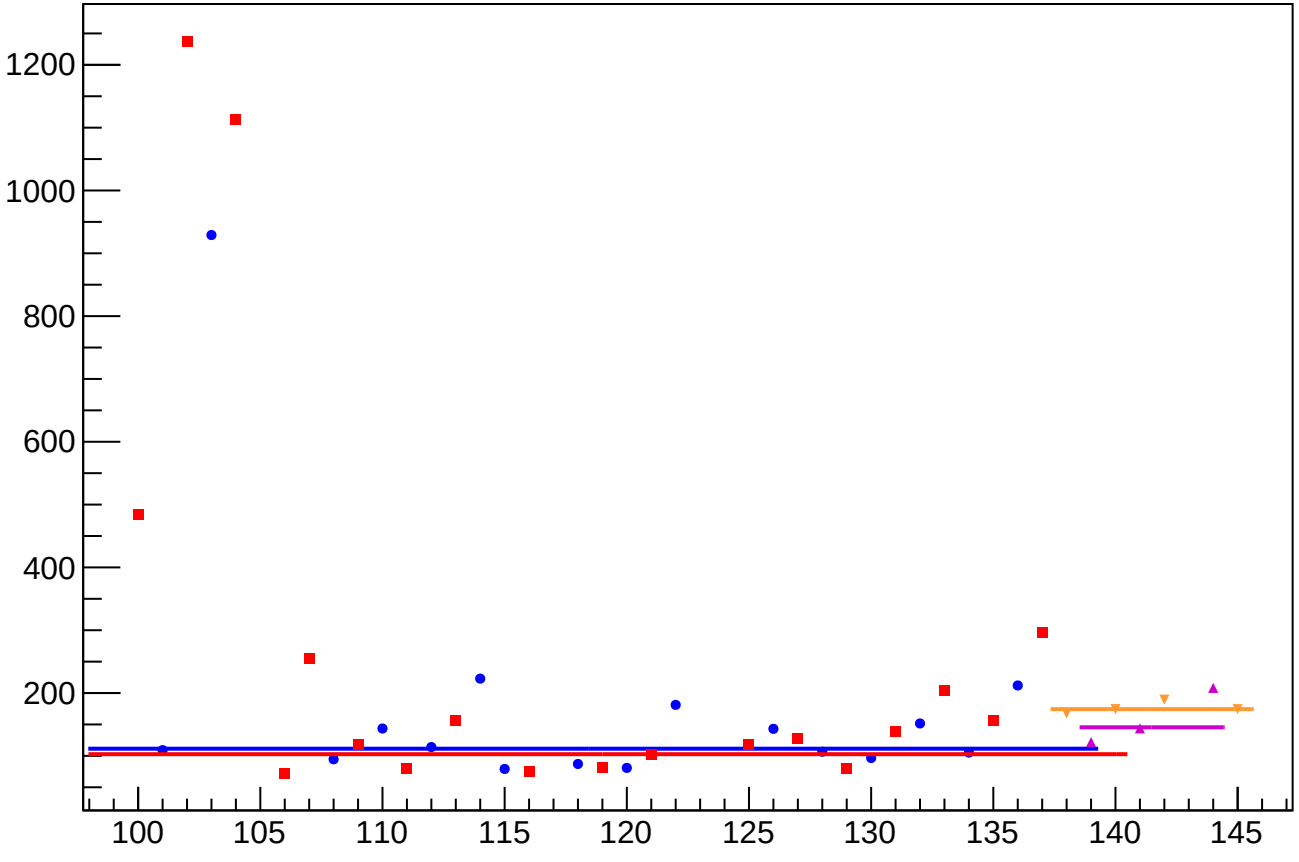
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.012+/-0.043 $\chi^2$/NDF:19.7/18

Out: -0.030+/-0.043 $\chi^2$/NDF:24.9/21

All: -0.021+/-0.030 $\chi^2$/NDF: 44.7/40

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 111.407+/-0.034 $\chi^2$/NDF: 1839361.2/15

Left Out: 174.367+/-0.076 $\chi^2$/NDF:7643.1/3

Right Out: 102.673+/-0.033 $\chi^2$/NDF: 2826852.7/17

Left In: 145.450+/-0.067 $\chi^2$/NDF:211088.9/2

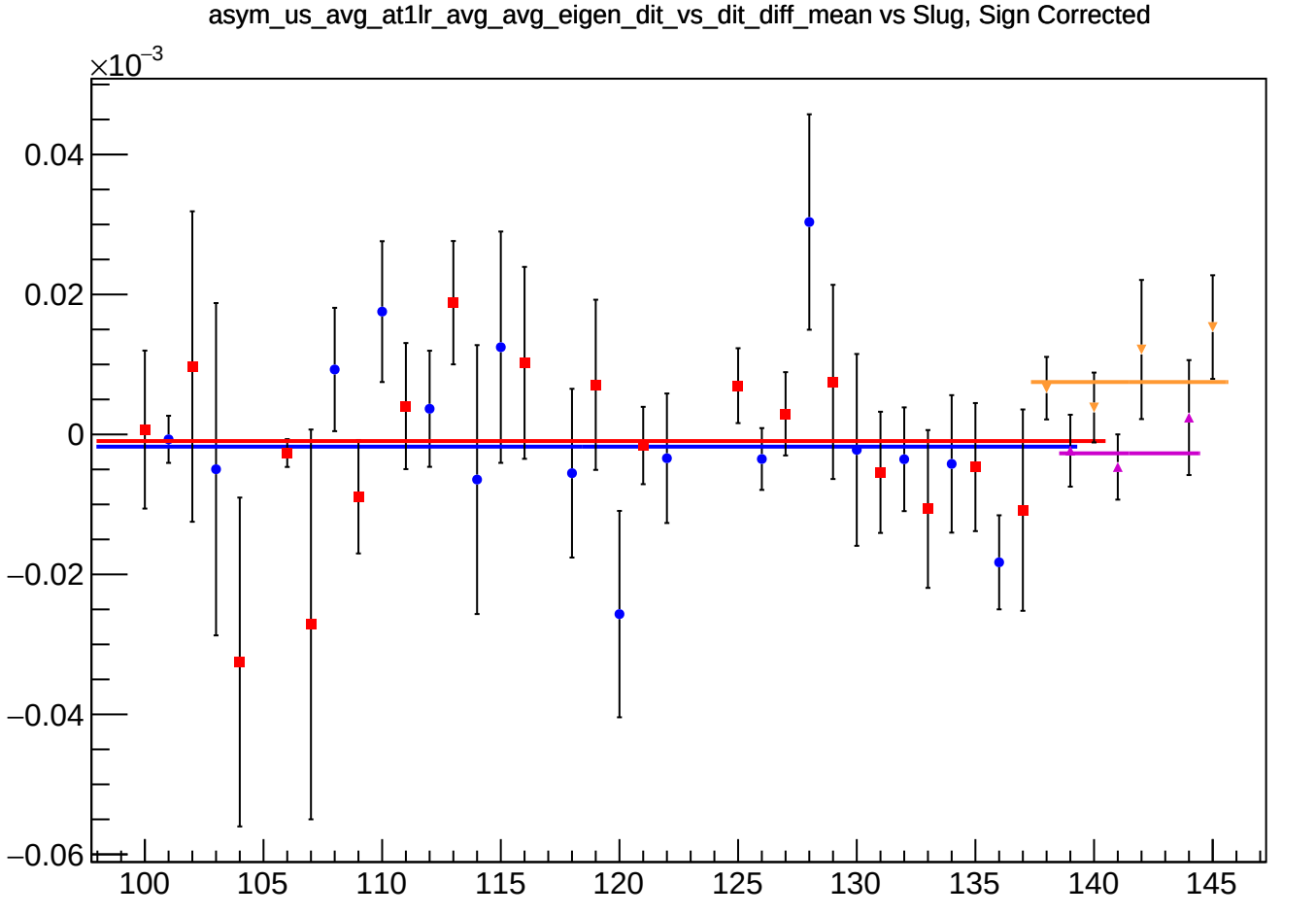
Left: 158.084+/-0.051 $\chi^2$/NDF: 299219.8/6

Right: 106.926+/-0.024 $\chi^2$/NDF: 4700716.0/33

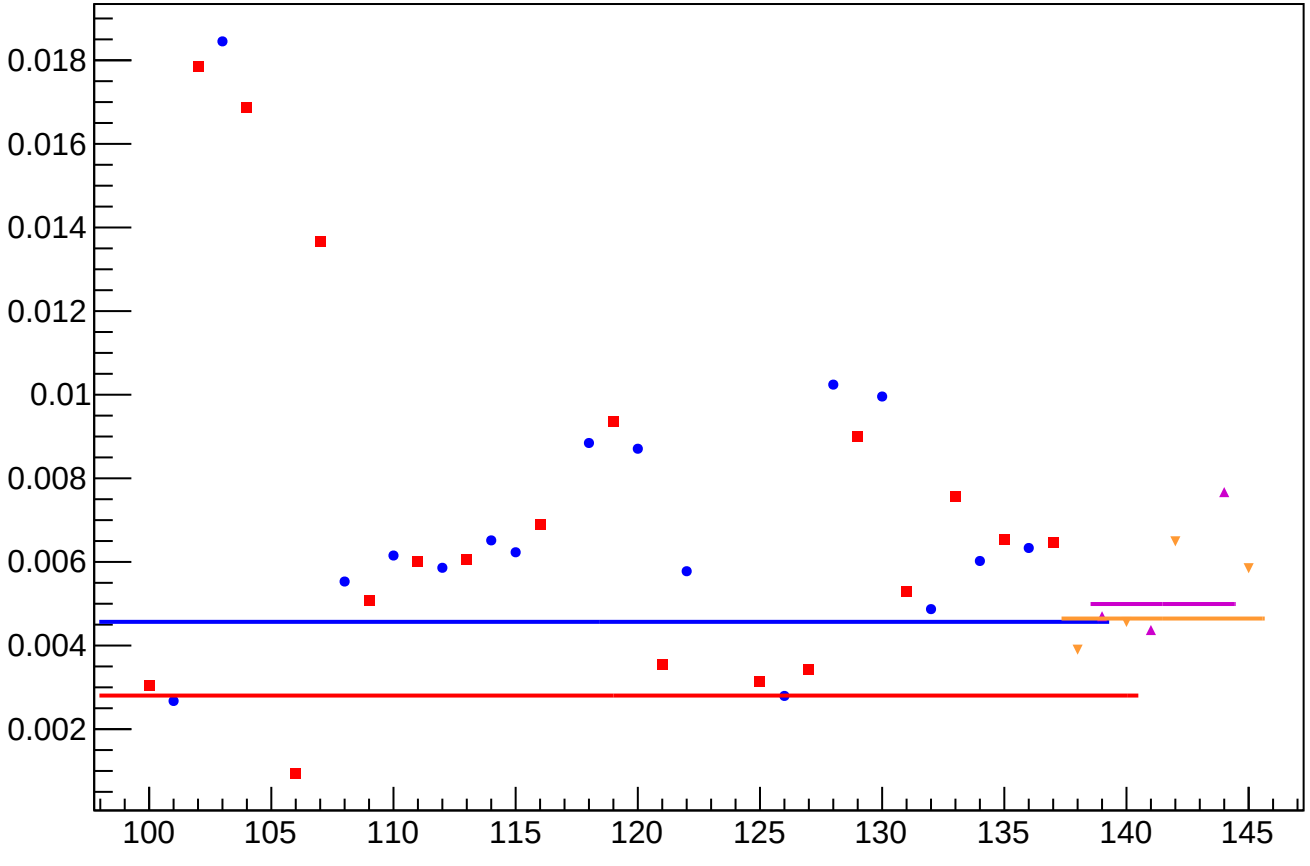
In: 118.212+/-0.030 $\chi^2$/NDF:2254724.9/18

Out: 113.816+/-0.030 $\chi^2$/NDF:3576563.1/21

All: 116.017+/-0.021 $\chi^2$/NDF: 5841925.8/40


asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.04
0.02
0
−0.02
−0.04
−0.06
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 20.0/15
Left Out: 0.000+/-0.000 χ²/NDF:1.9/3
Right Out: -0.000+/-0.000 χ²/NDF: 15.7/17
Left In: -0.000+/-0.000 χ²/NDF:0.6/2
Left: 0.000+/-0.000 χ²/NDF: 8.1/6
Right: -0.000+/-0.000 χ²/NDF: 35.9/33
In: -0.000+/-0.000 χ²/NDF:20.7/18
Out: 0.000+/-0.000 χ²/NDF:24.4/21
All: -0.000+/-0.000 χ²/NDF: 46.8/40

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: 0.005+/-0.000 $\chi^2$/NDF:177985.3/3

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6610011.8/17

Left In: 0.005+/-0.000 $\chi^2$/NDF:254599.8/2

Left: 0.005+/-0.000 $\chi^2$/NDF: 445598.9/6

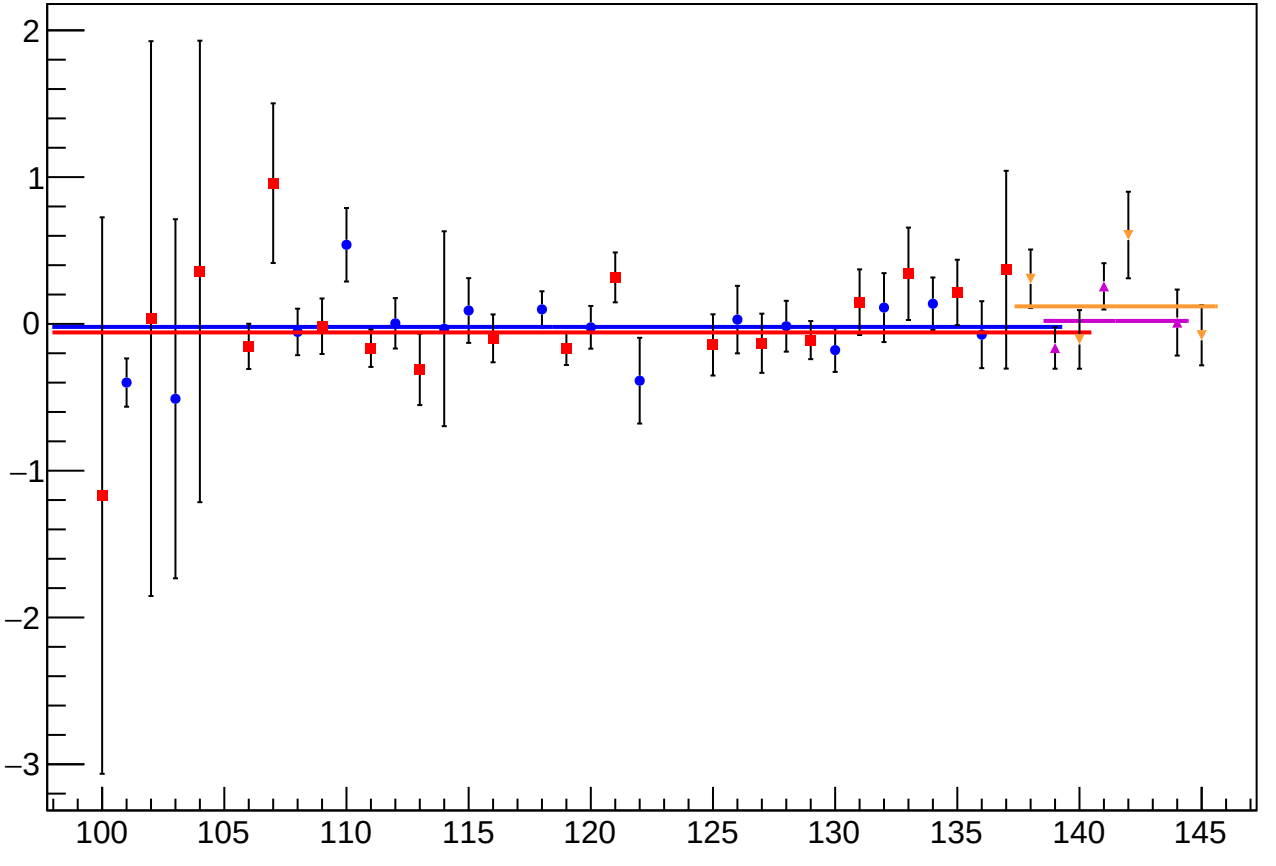
Right: 0.003+/-0.000 $\chi^2$/NDF: 10674508.6/33

In: 0.005+/-0.000 $\chi^2$/NDF:3293131.3/18

Out: 0.003+/-0.000 $\chi^2$/NDF:7427523.9/21

All: 0.004+/-0.000 $\chi^2$/NDF: 11728569.2/40

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: 0.120+/-0.108 $\chi^2$/NDF:5.8/3

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: 0.020+/-0.095 $\chi^2$/NDF:3.9/2

Left: 0.064+/-0.071 $\chi^2$/NDF: 10.2/6

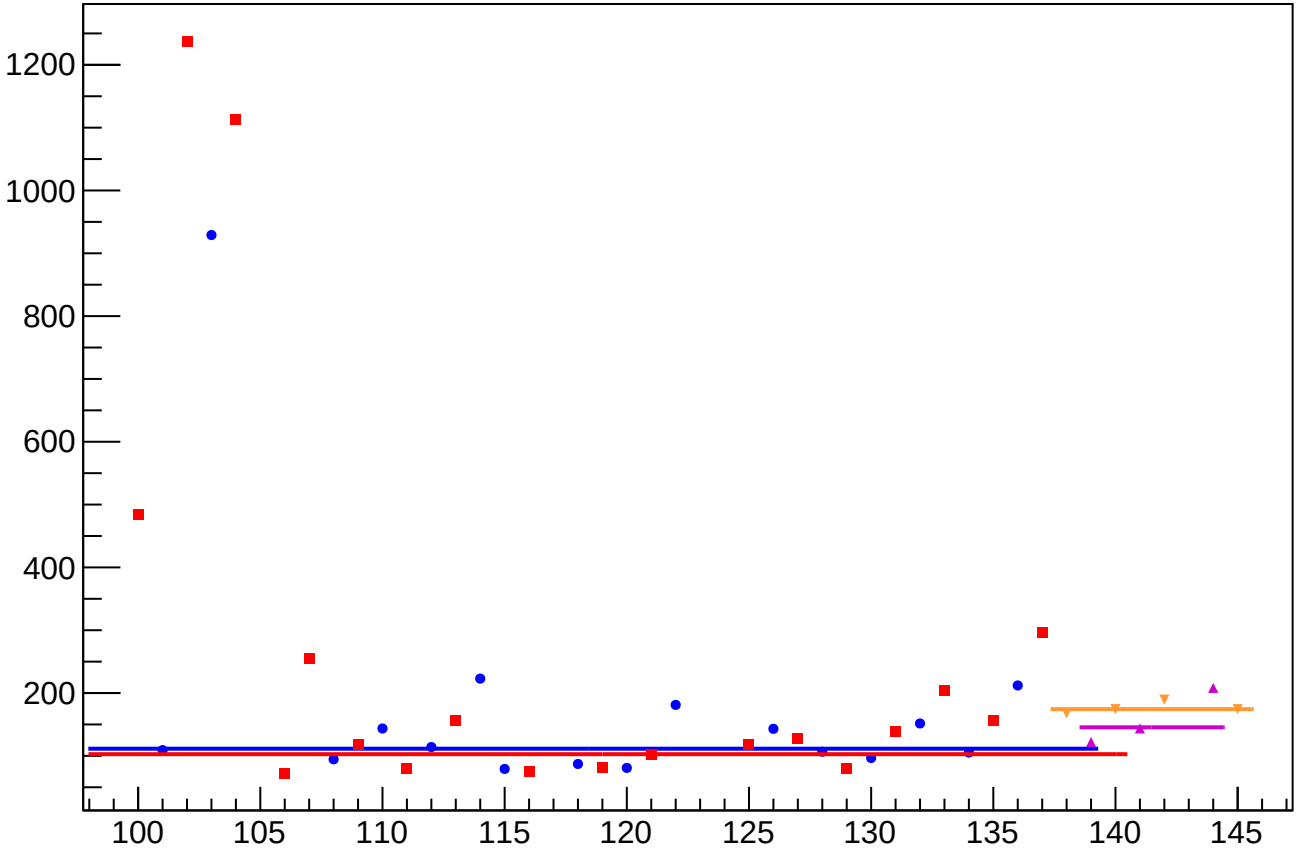
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.012+/-0.043 $\chi^2$/NDF:19.7/18

Out: -0.030+/-0.043 $\chi^2$/NDF:24.9/21

All: -0.021+/-0.030 $\chi^2$/NDF: 44.7/40

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 111.404+/-0.034 $\chi^2$/NDF: 1839407.3/15

Left Out: 174.367+/-0.076 $\chi^2$/NDF:7644.0/3

Right Out: 102.671+/-0.033 $\chi^2$/NDF: 2826848.2/17

Left In: 145.451+/-0.067 $\chi^2$/NDF:211082.7/2

Left: 158.084+/-0.051 $\chi^2$/NDF: 299207.2/6

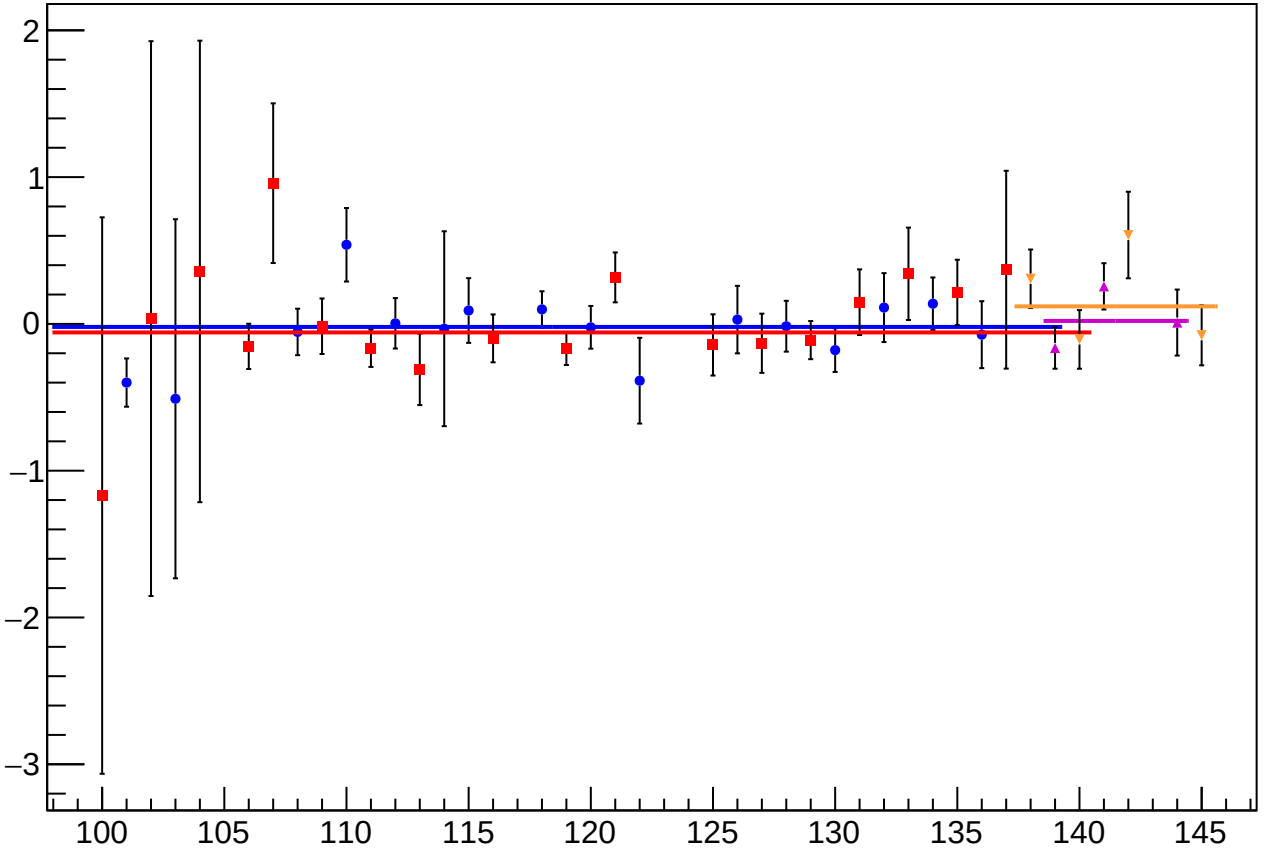
Right: 106.924+/-0.024 $\chi^2$/NDF: 4700749.9/33

In: 118.210+/-0.030 $\chi^2$/NDF:2254805.6/18

Out: 113.815+/-0.030 $\chi^2$/NDF:3576586.7/21

All: 116.014+/-0.021 $\chi^2$/NDF: 5842027.3/40

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: 0.120+/-0.108 $\chi^2$/NDF:5.8/3

Right Out: -0.058+/-0.046 $\chi^2$/NDF: 16.8/17

Left In: 0.020+/-0.095 $\chi^2$/NDF:3.9/2

Left: 0.064+/-0.071 $\chi^2$/NDF: 10.2/6

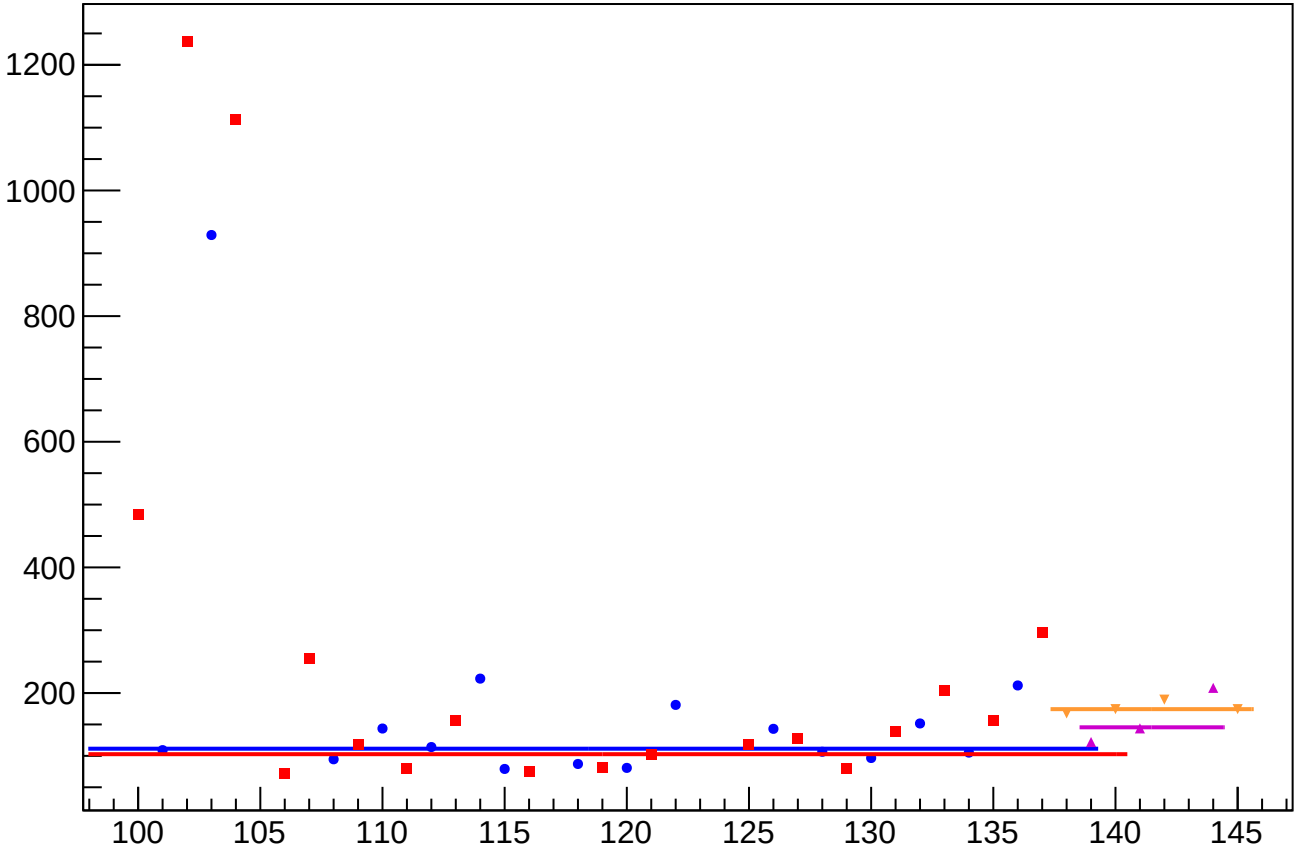
Right: -0.040+/-0.033 $\chi^2$/NDF: 32.8/33

In: -0.012+/-0.043 $\chi^2$/NDF:19.7/18

Out: -0.030+/-0.043 $\chi^2$/NDF:24.9/21

All: -0.021+/-0.030 $\chi^2$/NDF: 44.7/40

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 111.404+/-0.034 $\chi^2$/NDF: 1839407.3/15

Left Out: 174.367+/-0.076 $\chi^2$/NDF:7644.0/3

Right Out: 102.671+/-0.033 $\chi^2$/NDF: 2826848.2/17

Left In: 145.451+/-0.067 $\chi^2$/NDF:211082.7/2

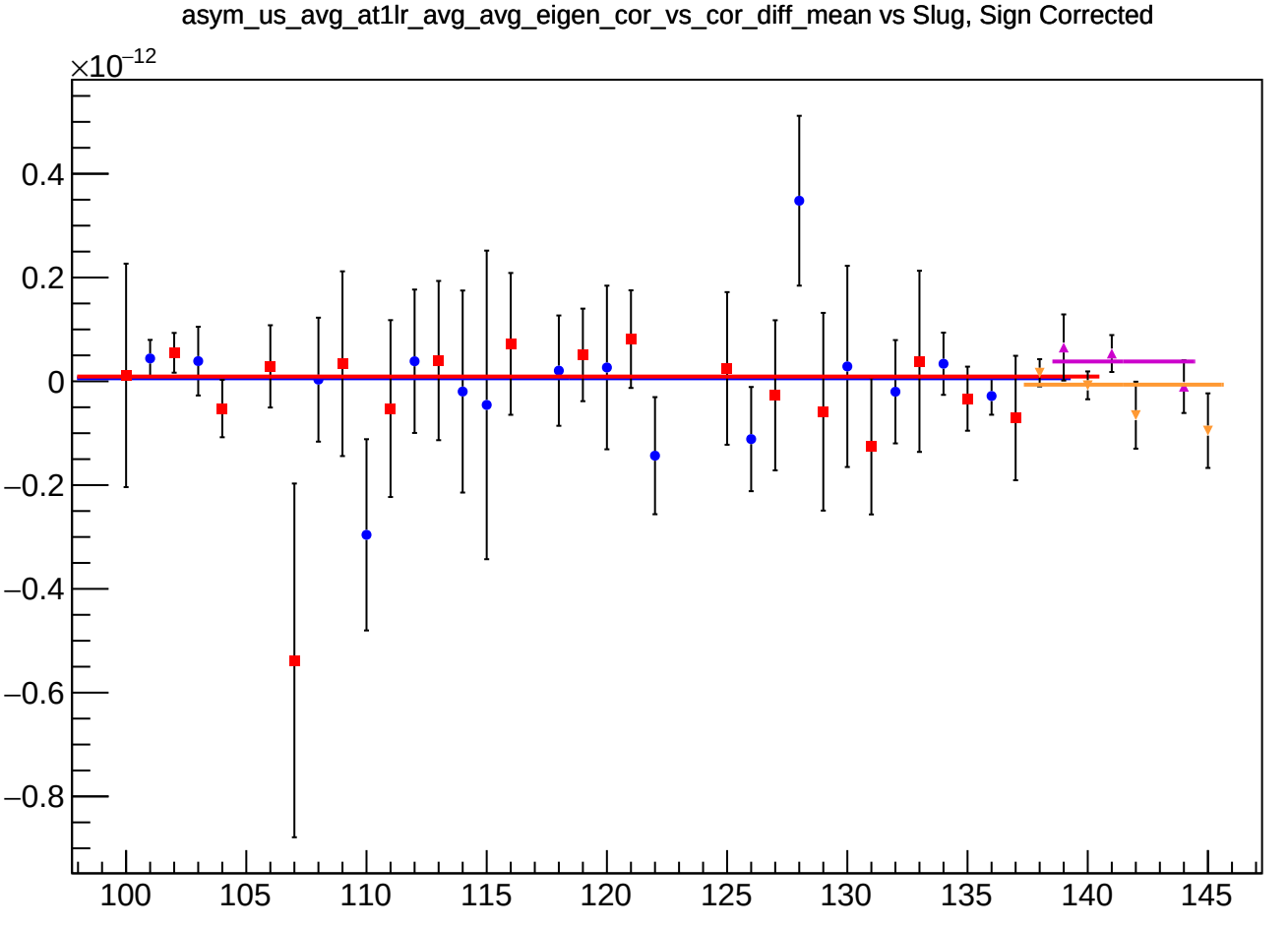
Left: 158.084+/-0.051 $\chi^2$/NDF: 299207.2/6

Right: 106.924+/-0.024 $\chi^2$/NDF: 4700749.9/33

In: 118.210+/-0.030 $\chi^2$/NDF:2254805.6/18

Out: 113.815+/-0.030 $\chi^2$/NDF:3576586.7/21

All: 116.014+/-0.021 $\chi^2$/NDF: 5842027.3/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.1/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 8.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.3/2

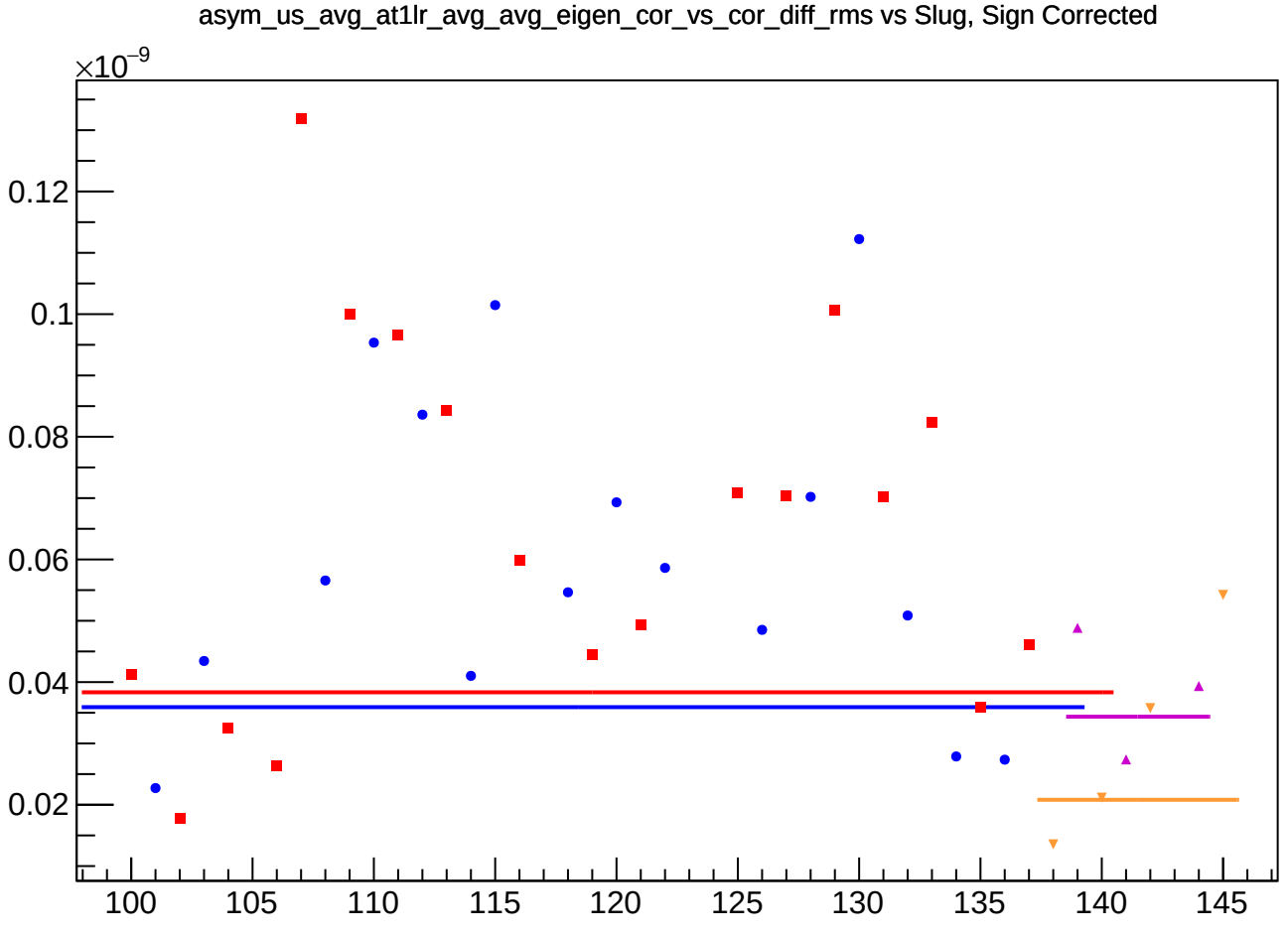
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.4/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 21.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:15.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:12.1/21

All: 0.000+/-0.000 $\chi^2$/NDF: 28.0/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1759038.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:693195.9/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2202319.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:199605.8/2

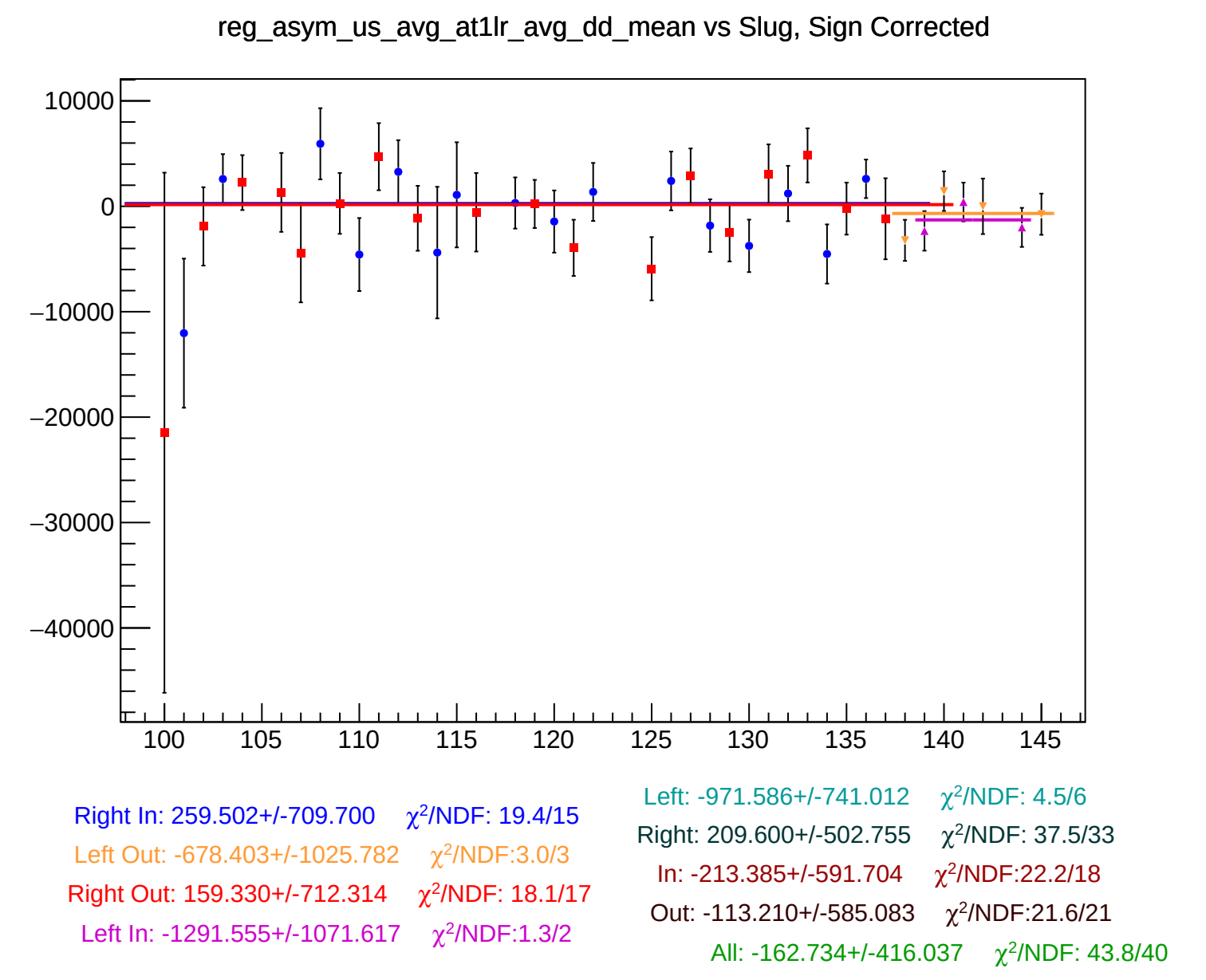
Left: 0.000+/-0.000 $\chi^2$/NDF: 1257513.2/6

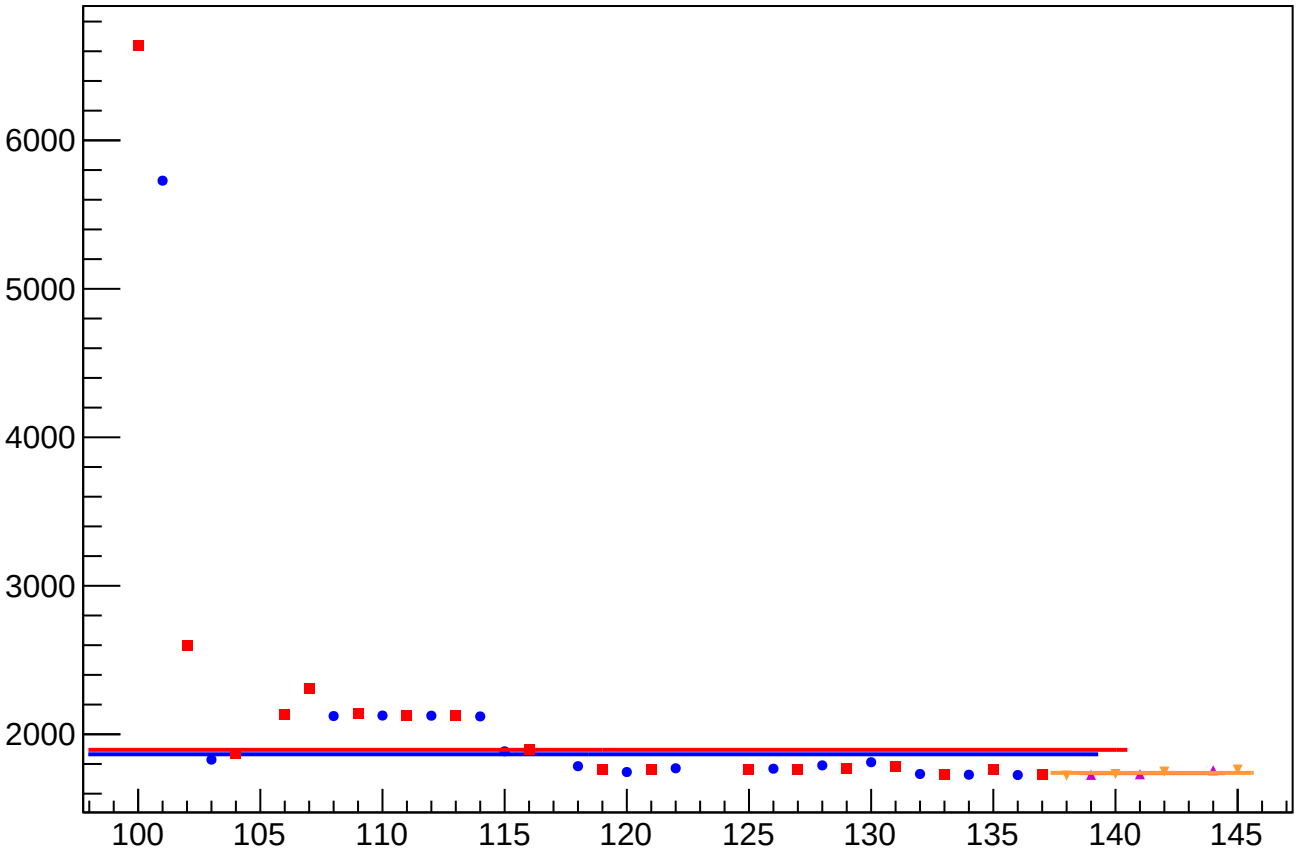
Right: 0.000+/-0.000 $\chi^2$/NDF: 3975413.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:1963141.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3690943.2/21

All: 0.000+/-0.000 $\chi^2$/NDF: 5928136.5/40


reg_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
105
110
115
120
125
130
135
140
145
Right In: 259.502+/-709.700 χ²/NDF: 19.4/15
Left Out: -678.403+/-1025.782 χ²/NDF:3.0/3
Right Out: 159.330+/-712.314 χ²/NDF: 18.1/17
Left In: -1291.555+/-1071.617 χ²/NDF:1.3/2
Left: -971.586+/-741.012 χ²/NDF: 4.5/6
Right: 209.600+/-502.755 χ²/NDF: 37.5/33
In: -213.385+/-591.704 χ²/NDF:22.2/18
Out: -113.210+/-585.083 χ²/NDF:21.6/21
All: -162.734+/-416.037 χ²/NDF: 43.8/40




Right In: 1865.170+/-0.502 $\chi^2$/NDF: 672724.7/15

Left Out: 1739.988+/-0.725 $\chi^2$/NDF:478.9/3

Right Out: 1895.250+/-0.504 $\chi^2$/NDF: 250806.5/17

Left In: 1738.529+/-0.758 $\chi^2$/NDF:336.0/2

Left: 1739.290+/-0.524 $\chi^2$/NDF: 816.9/6

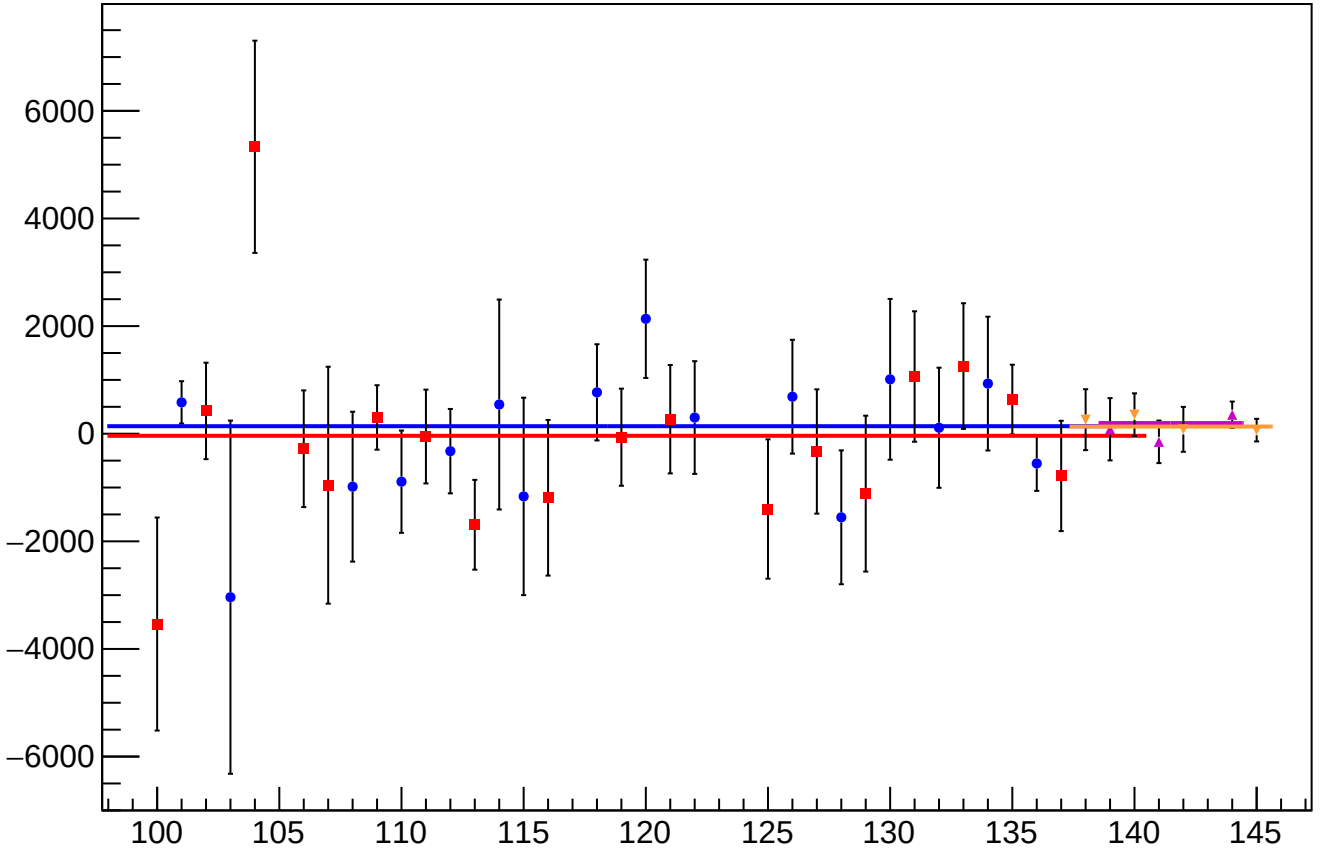
Right: 1880.155+/-0.356 $\chi^2$/NDF: 925321.0/33

In: 1826.560+/-0.418 $\chi^2$/NDF:692476.9/18

Out: 1844.738+/-0.414 $\chi^2$/NDF:282198.5/21

All: 1835.751+/-0.294 $\chi^2$/NDF: 975629.9/40

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 139.799+/-220.100 $\chi^2$/NDF: 13.5/15

Left Out: 133.314+/-162.343 $\chi^2$/NDF:0.5/3

Right Out: -38.629+/-238.253 $\chi^2$/NDF: 21.4/17

Left In: 198.096+/-195.959 $\chi^2$/NDF:1.2/2

Left: 159.680+/-125.015 $\chi^2$/NDF: 1.8/6

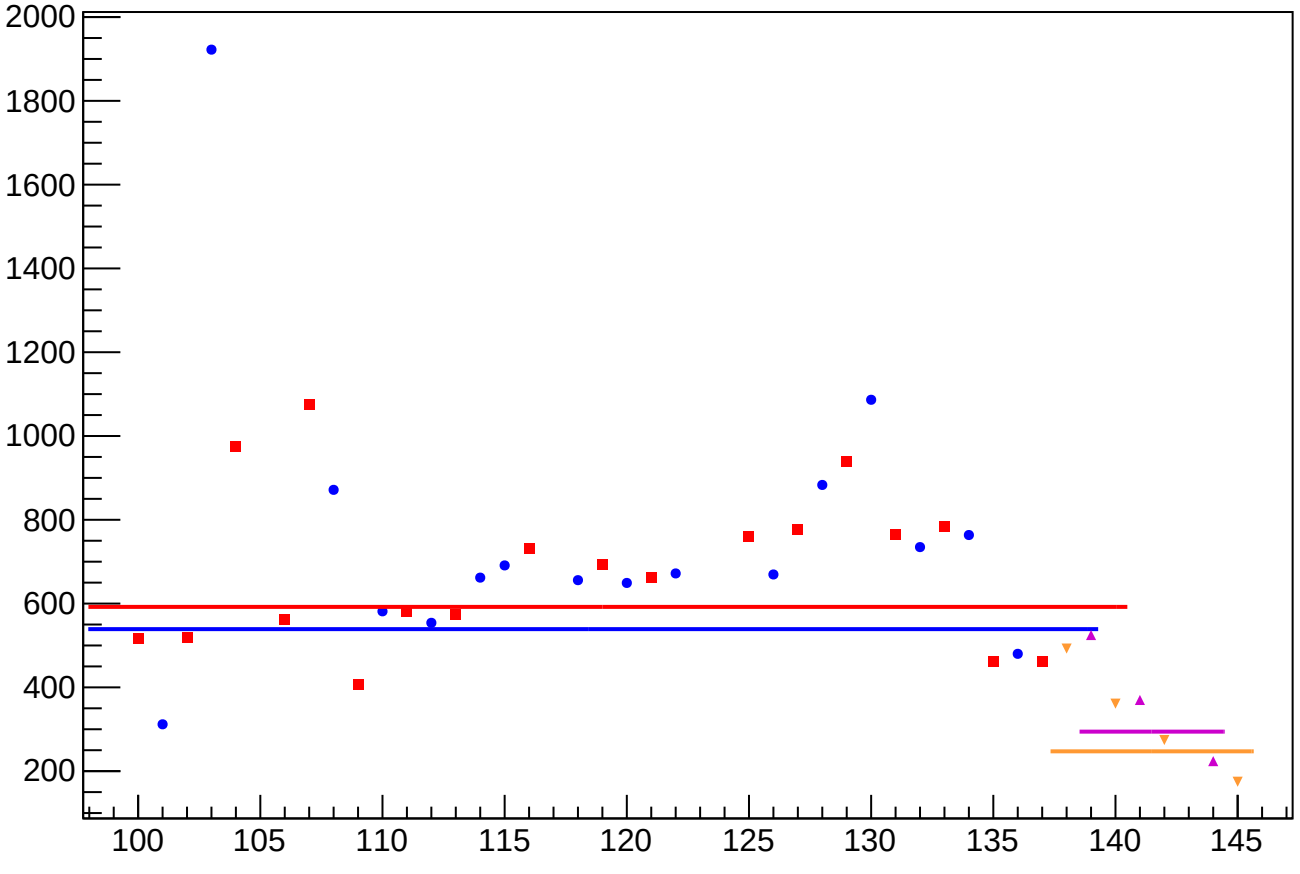
Right: 57.640+/-161.672 $\chi^2$/NDF: 35.2/33

In: 172.318+/-146.358 $\chi^2$/NDF:14.7/18

Out: 78.795+/-134.159 $\chi^2$/NDF:22.2/21

All: 121.497+/-98.897 $\chi^2$/NDF: 37.2/40

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: 247.311+/-0.115 $\chi^2$/NDF:788064.5/3

Right Out: 592.101+/-0.168 $\chi^2$/NDF: 843066.1/17

Left In: 294.342+/-0.139 $\chi^2$/NDF:556001.4/2

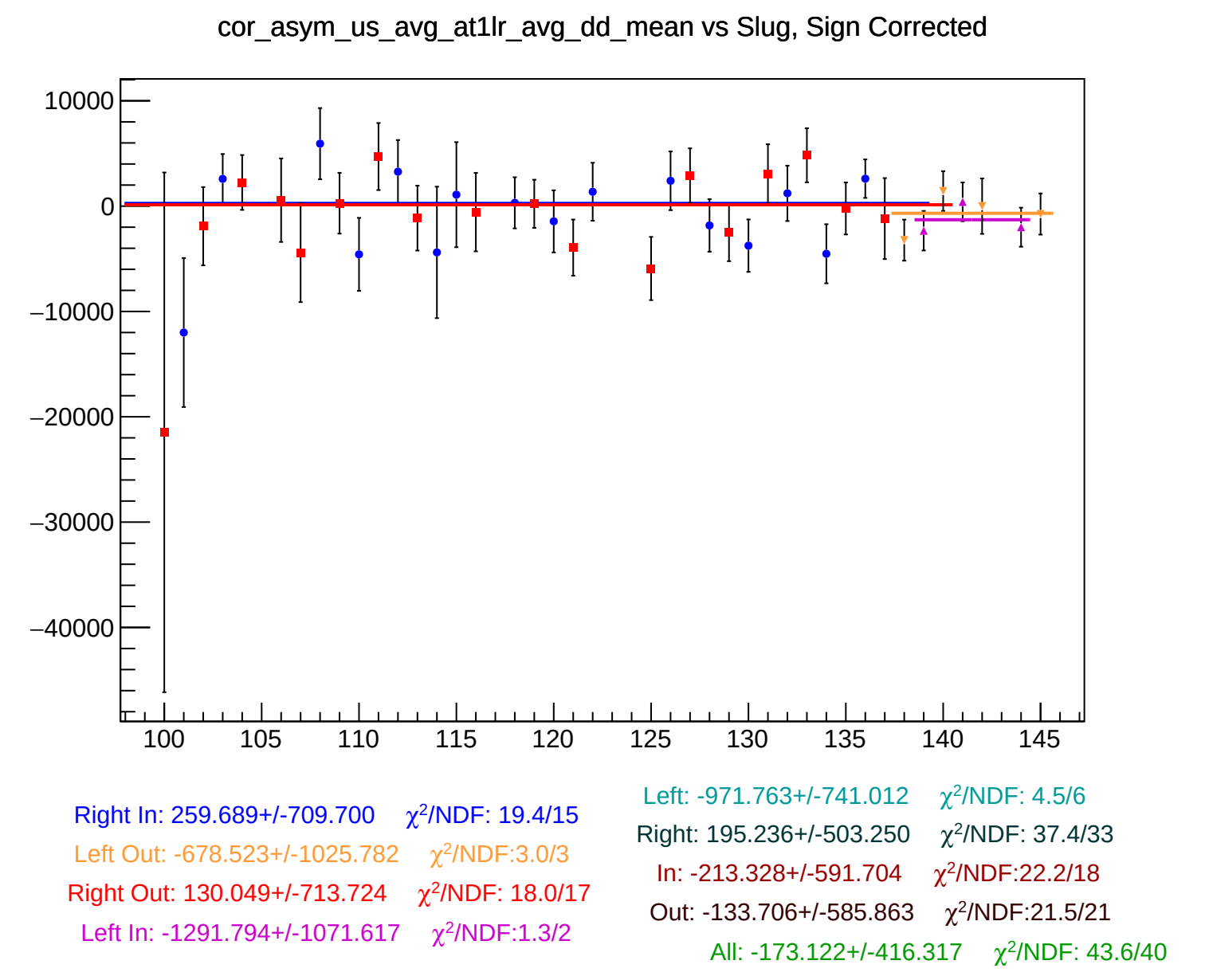
Left: 266.453+/-0.088 $\chi^2$/NDF: 1412382.6/6

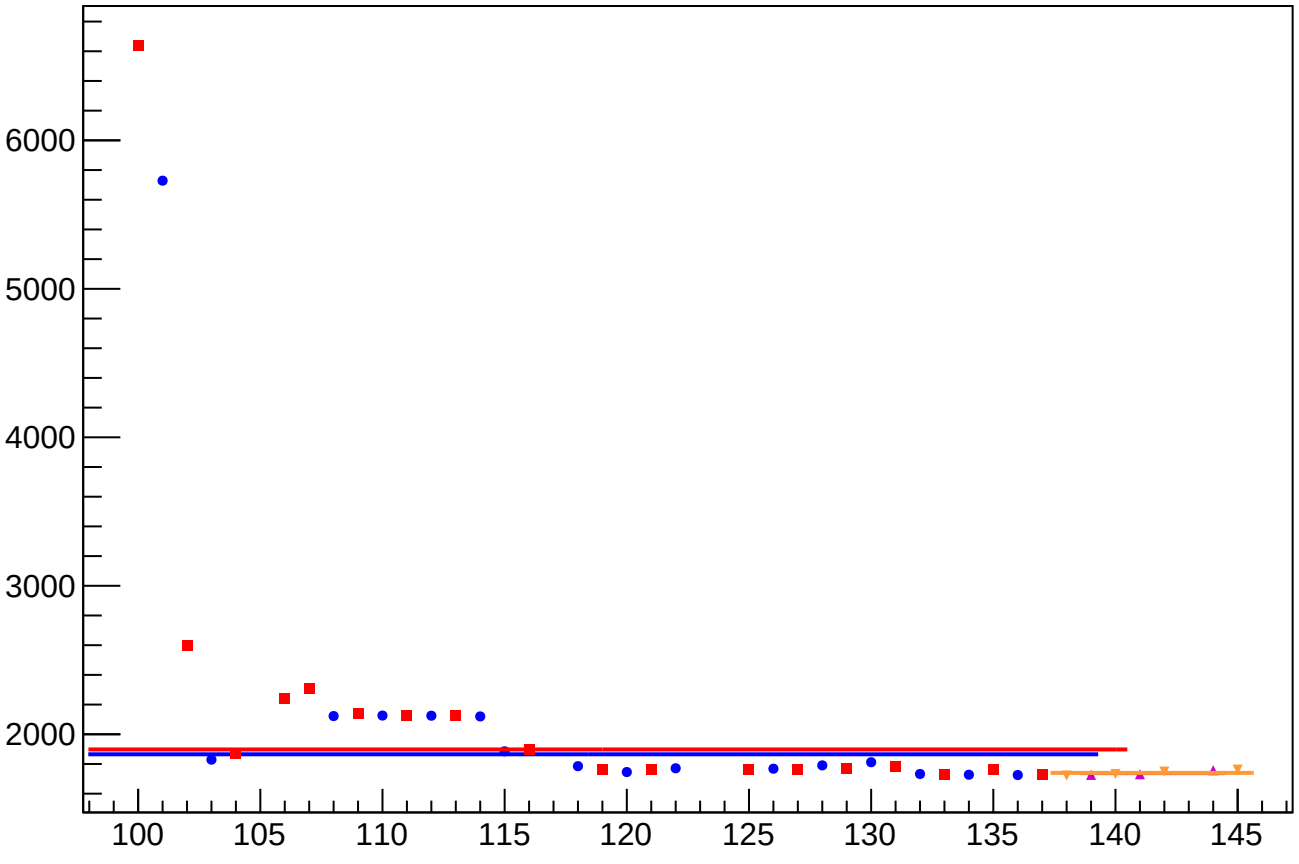
Right: 563.459+/-0.114 $\chi^2$/NDF: 2751212.3/33

In: 402.530+/-0.103 $\chi^2$/NDF:3789261.0/18

Out: 356.635+/-0.095 $\chi^2$/NDF:4491582.0/21

All: 377.591+/-0.070 $\chi^2$/NDF: 8387711.6/40


cor_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
105
110
115
120
125
130
135
140
145
Right In: 259.689+/-709.700 χ²/NDF: 19.4/15
Left Out: -678.523+/-1025.782 χ²/NDF:3.0/3
Right Out: 130.049+/-713.724 χ²/NDF: 18.0/17
Left In: -1291.794+/-1071.617 χ²/NDF:1.3/2
Left: -971.763+/-741.012 χ²/NDF: 4.5/6
Right: 195.236+/-503.250 χ²/NDF: 37.4/33
In: -213.328+/-591.704 χ²/NDF:22.2/18
Out: -133.706+/-585.863 χ²/NDF:21.5/21
All: -173.122+/-416.317 χ²/NDF: 43.6/40




Right In: 1865.170+/-0.502 $\chi^2$/NDF: 672724.7/15

Left Out: 1739.988+/-0.725 $\chi^2$/NDF:478.9/3

Right Out: 1897.700+/-0.505 $\chi^2$/NDF: 257735.0/17

Left In: 1738.529+/-0.758 $\chi^2$/NDF:336.0/2

Left: 1739.290+/-0.524 $\chi^2$/NDF: 816.9/6

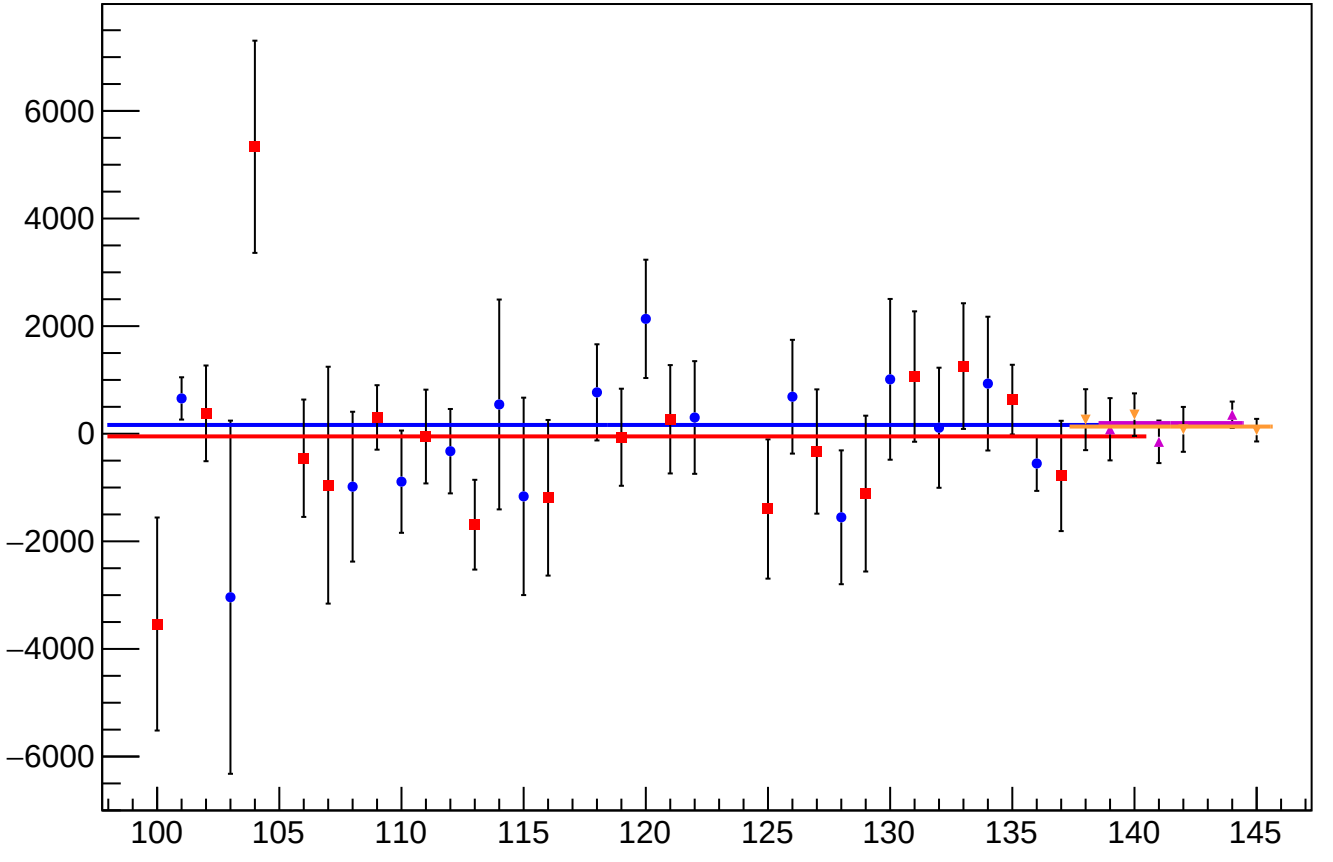
Right: 1881.343+/-0.356 $\chi^2$/NDF: 932548.8/33

In: 1826.560+/-0.418 $\chi^2$/NDF:692476.8/18

Out: 1846.255+/-0.414 $\chi^2$/NDF:290069.4/21

All: 1836.505+/-0.294 $\chi^2$/NDF: 983665.2/40

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 163.149+/-220.024 $\chi^2$/NDF: 13.9/15

Left Out: 133.096+/-162.347 $\chi^2$/NDF:0.5/3

Right Out: -49.618+/-238.198 $\chi^2$/NDF: 21.4/17

Left In: 198.049+/-195.961 $\chi^2$/NDF:1.2/2

Left: 159.532+/-125.017 $\chi^2$/NDF: 1.8/6

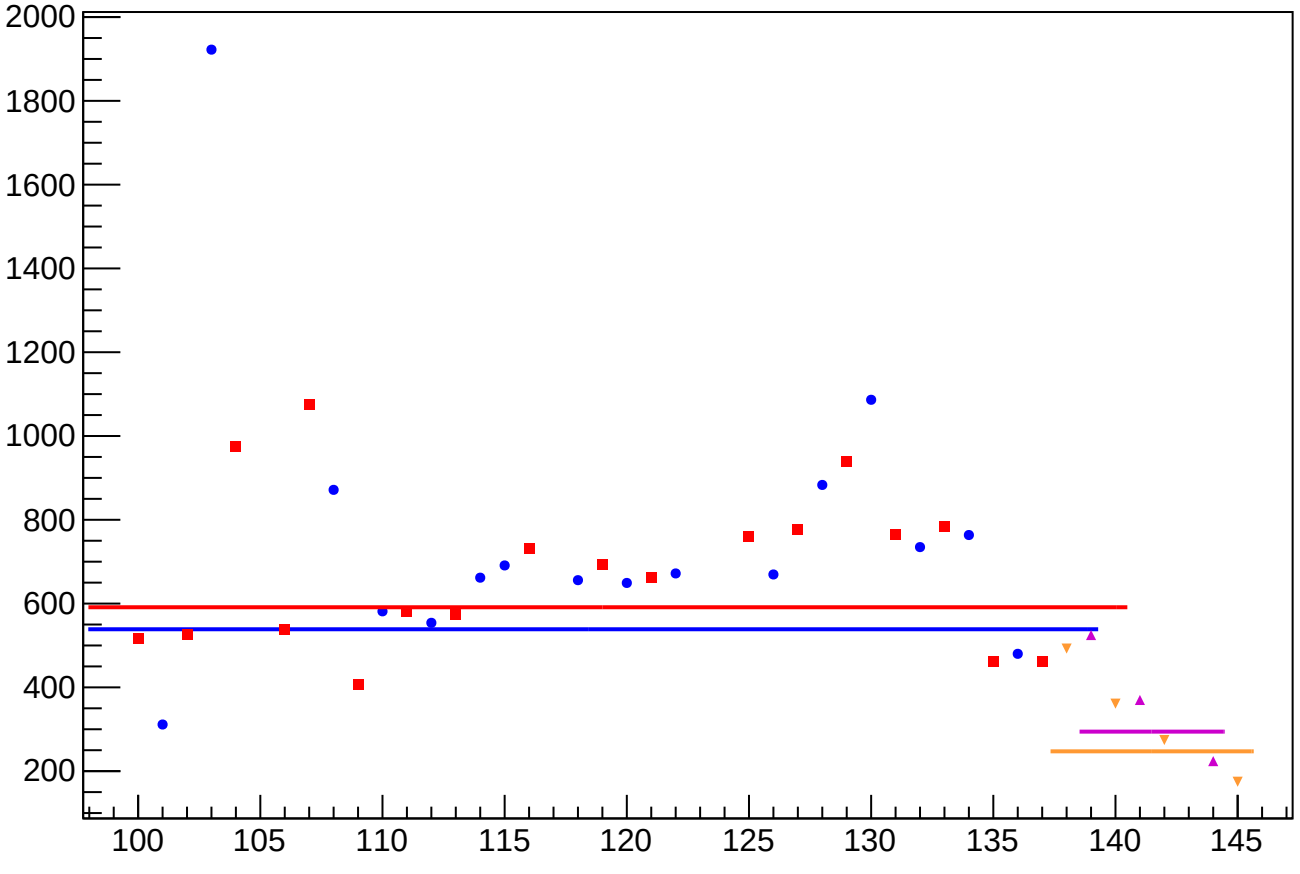
Right: 65.191+/-161.624 $\chi^2$/NDF: 35.8/33

In: 182.611+/-146.336 $\chi^2$/NDF:15.1/18

Out: 75.142+/-134.151 $\chi^2$/NDF:22.3/21

All: 124.217+/-98.887 $\chi^2$/NDF: 37.8/40

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: 247.317+/-0.115 $\chi^2$/NDF:788076.7/3

Right Out: 591.241+/-0.168 $\chi^2$/NDF: 844536.8/17

Left In: 294.353+/-0.139 $\chi^2$/NDF:555860.9/2

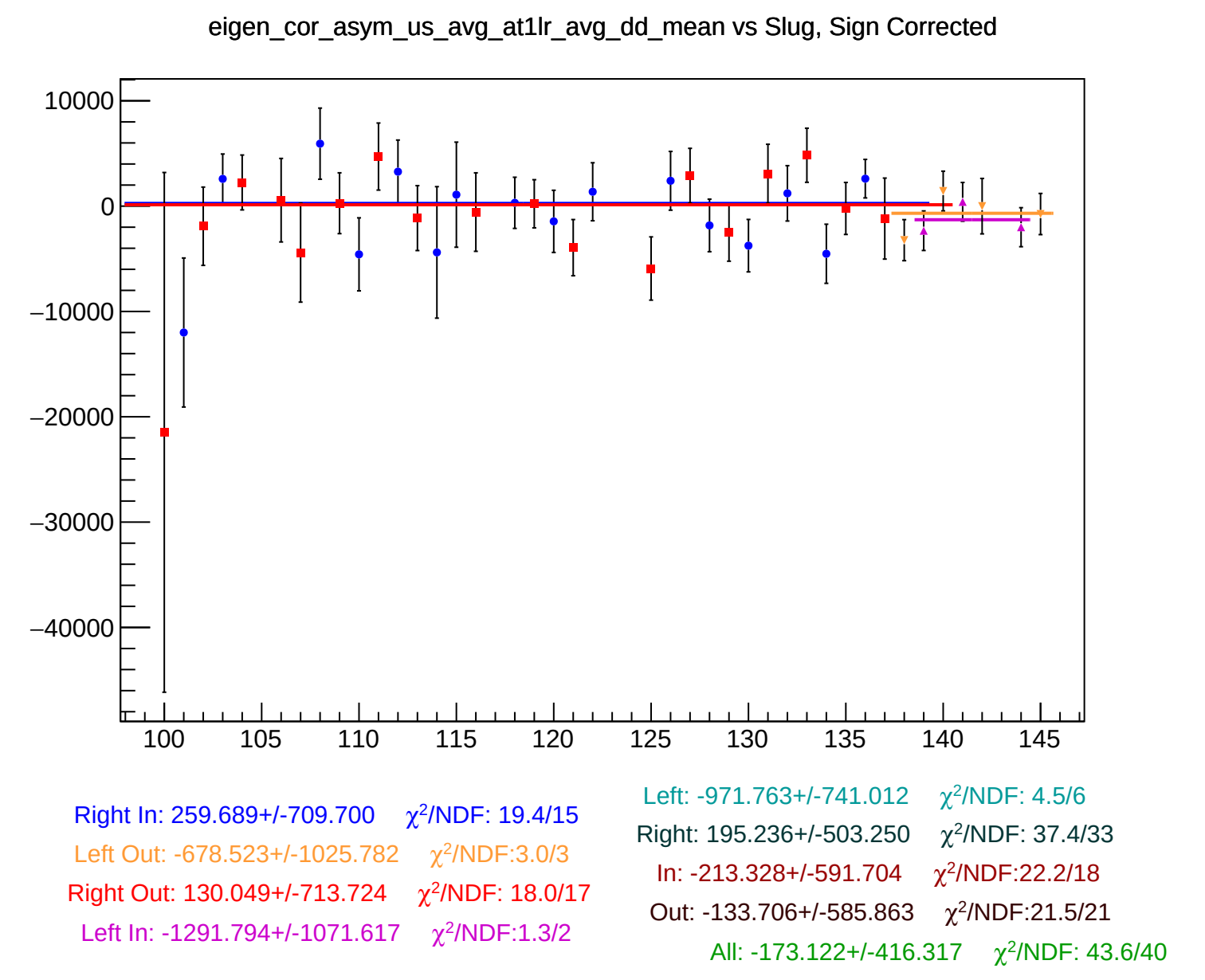
Left: 266.461+/-0.088 $\chi^2$/NDF: 1412266.2/6

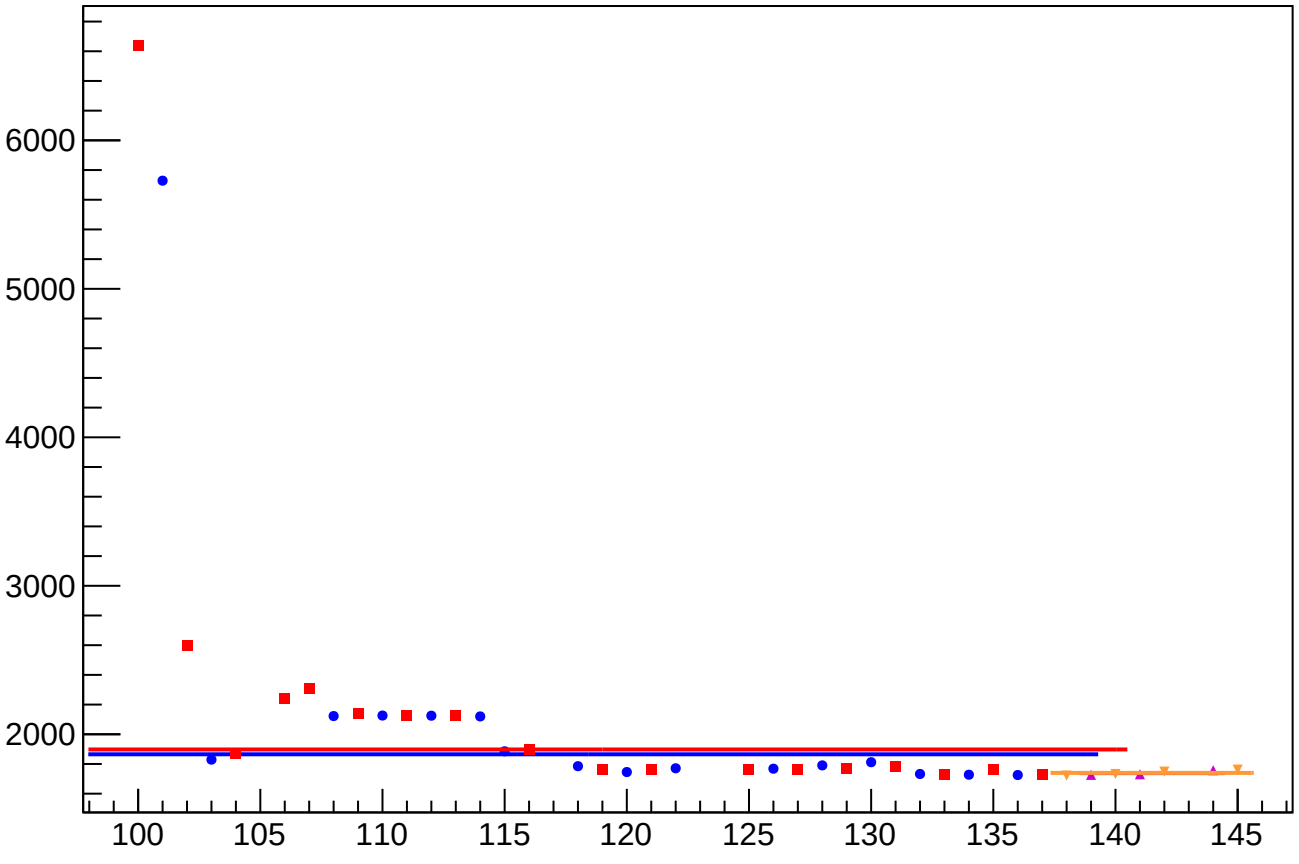
Right: 562.892+/-0.114 $\chi^2$/NDF: 2755931.5/33

In: 402.440+/-0.103 $\chi^2$/NDF:3790317.6/18

Out: 356.405+/-0.095 $\chi^2$/NDF:4479588.0/21

All: 377.427+/-0.070 $\chi^2$/NDF: 8377451.7/40


eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
105
110
115
120
125
130
135
140
145
Right In: 259.689+/-709.700 χ²/NDF: 19.4/15
Left Out: -678.523+/-1025.782 χ²/NDF:3.0/3
Right Out: 130.049+/-713.724 χ²/NDF: 18.0/17
Left In: -1291.794+/-1071.617 χ²/NDF:1.3/2
Left: -971.763+/-741.012 χ²/NDF: 4.5/6
Right: 195.236+/-503.250 χ²/NDF: 37.4/33
In: -213.328+/-591.704 χ²/NDF:22.2/18
Out: -133.706+/-585.863 χ²/NDF:21.5/21
All: -173.122+/-416.317 χ²/NDF: 43.6/40




Right In: 1865.170+/-0.502 $\chi^2$/NDF: 672724.7/15

Left Out: 1739.988+/-0.725 $\chi^2$/NDF:478.9/3

Right Out: 1897.700+/-0.505 $\chi^2$/NDF: 257735.0/17

Left In: 1738.529+/-0.758 $\chi^2$/NDF:336.0/2

Left: 1739.290+/-0.524 $\chi^2$/NDF: 816.9/6

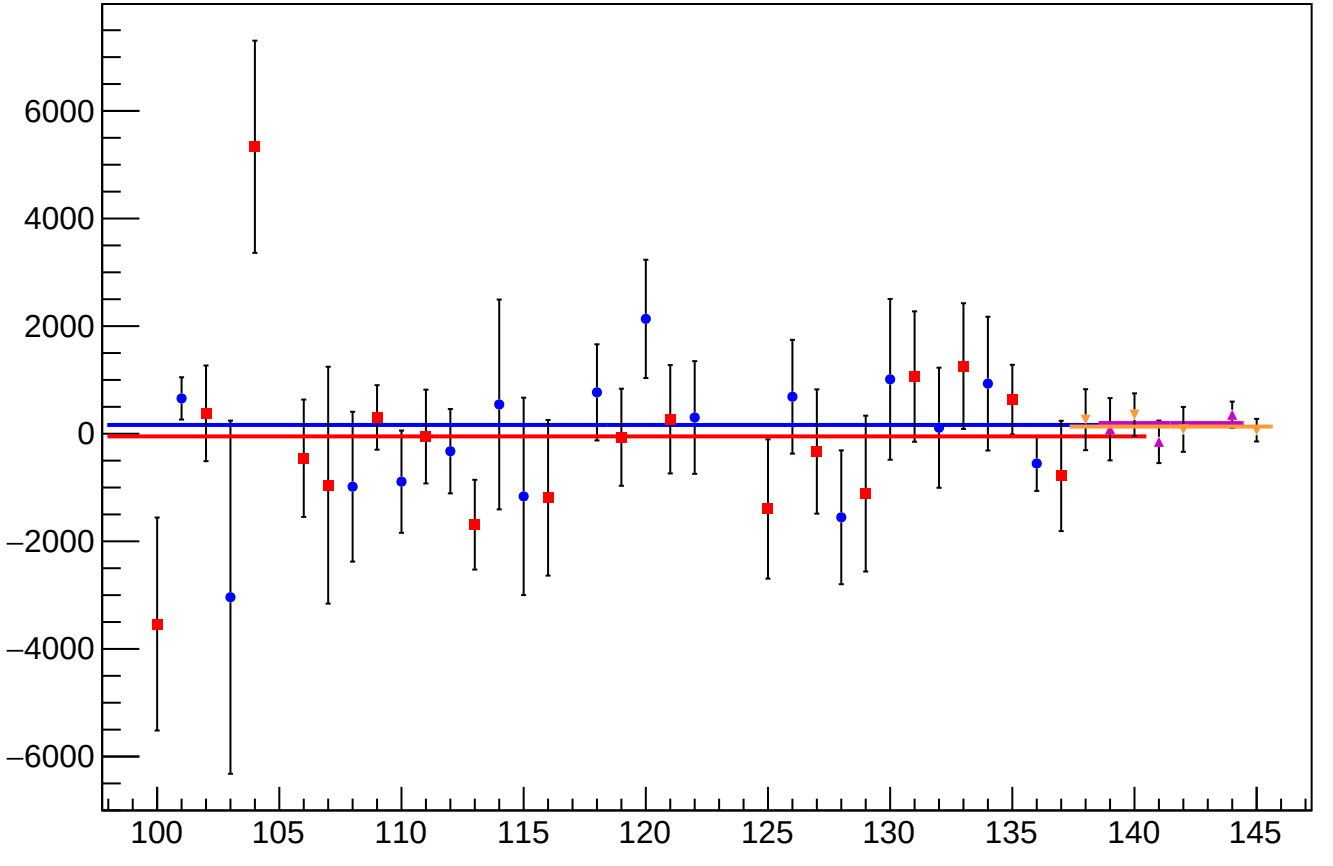
Right: 1881.343+/-0.356 $\chi^2$/NDF: 932548.8/33

In: 1826.560+/-0.418 $\chi^2$/NDF:692476.8/18

Out: 1846.255+/-0.414 $\chi^2$/NDF:290069.4/21

All: 1836.505+/-0.294 $\chi^2$/NDF: 983665.2/40

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 163.149+/-220.024 $\chi^2$/NDF: 13.9/15

Left Out: 133.096+/-162.347 $\chi^2$/NDF:0.5/3

Right Out: -49.618+/-238.198 $\chi^2$/NDF: 21.4/17

Left In: 198.049+/-195.961 $\chi^2$/NDF:1.2/2

Left: 159.532+/-125.017 $\chi^2$/NDF: 1.8/6

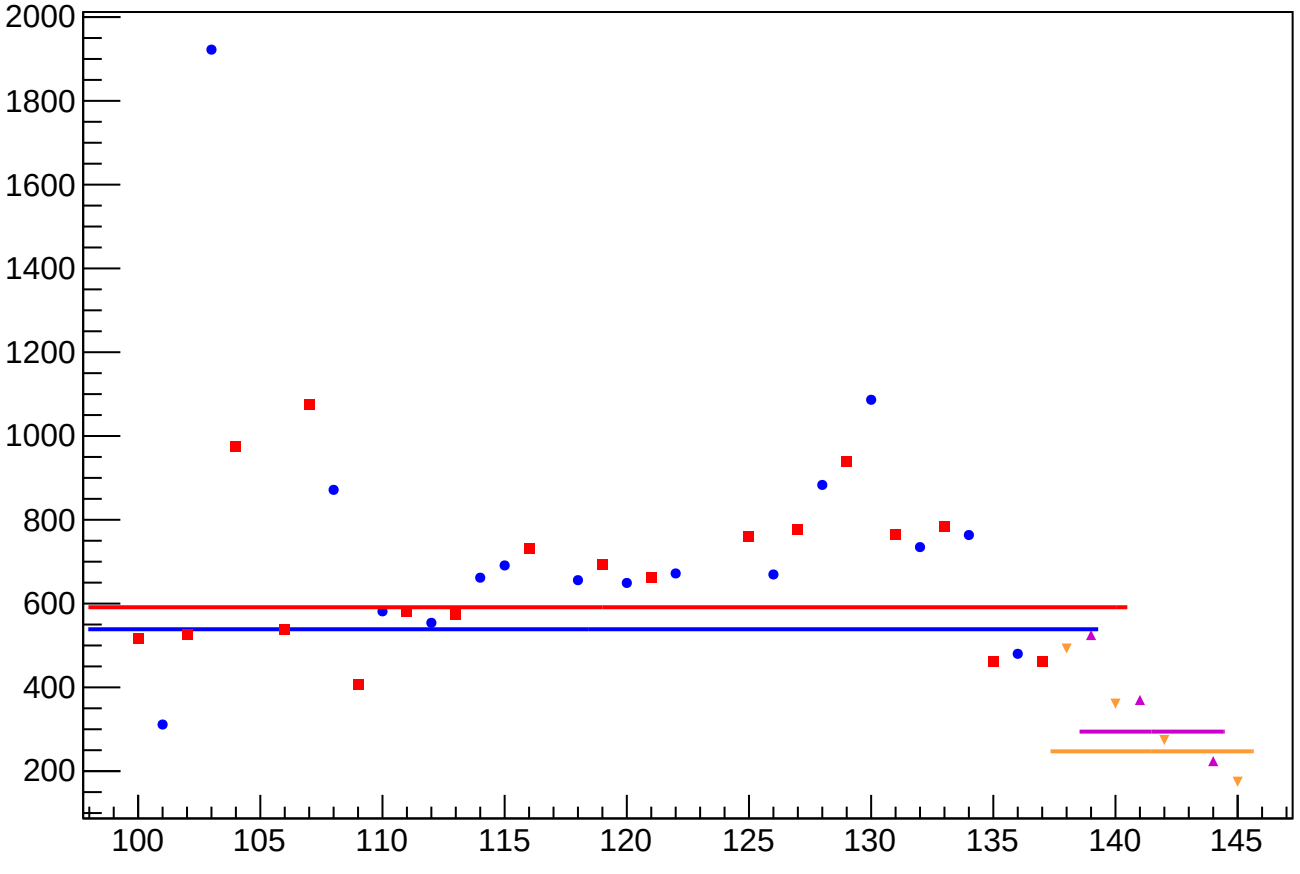
Right: 65.191+/-161.624 $\chi^2$/NDF: 35.8/33

In: 182.611+/-146.336 $\chi^2$/NDF:15.1/18

Out: 75.142+/-134.151 $\chi^2$/NDF:22.3/21

All: 124.217+/-98.887 $\chi^2$/NDF: 37.8/40

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: 247.317+/-0.115 $\chi^2$/NDF:788076.7/3

Right Out: 591.241+/-0.168 $\chi^2$/NDF: 844536.8/17

Left In: 294.353+/-0.139 $\chi^2$/NDF:555860.9/2

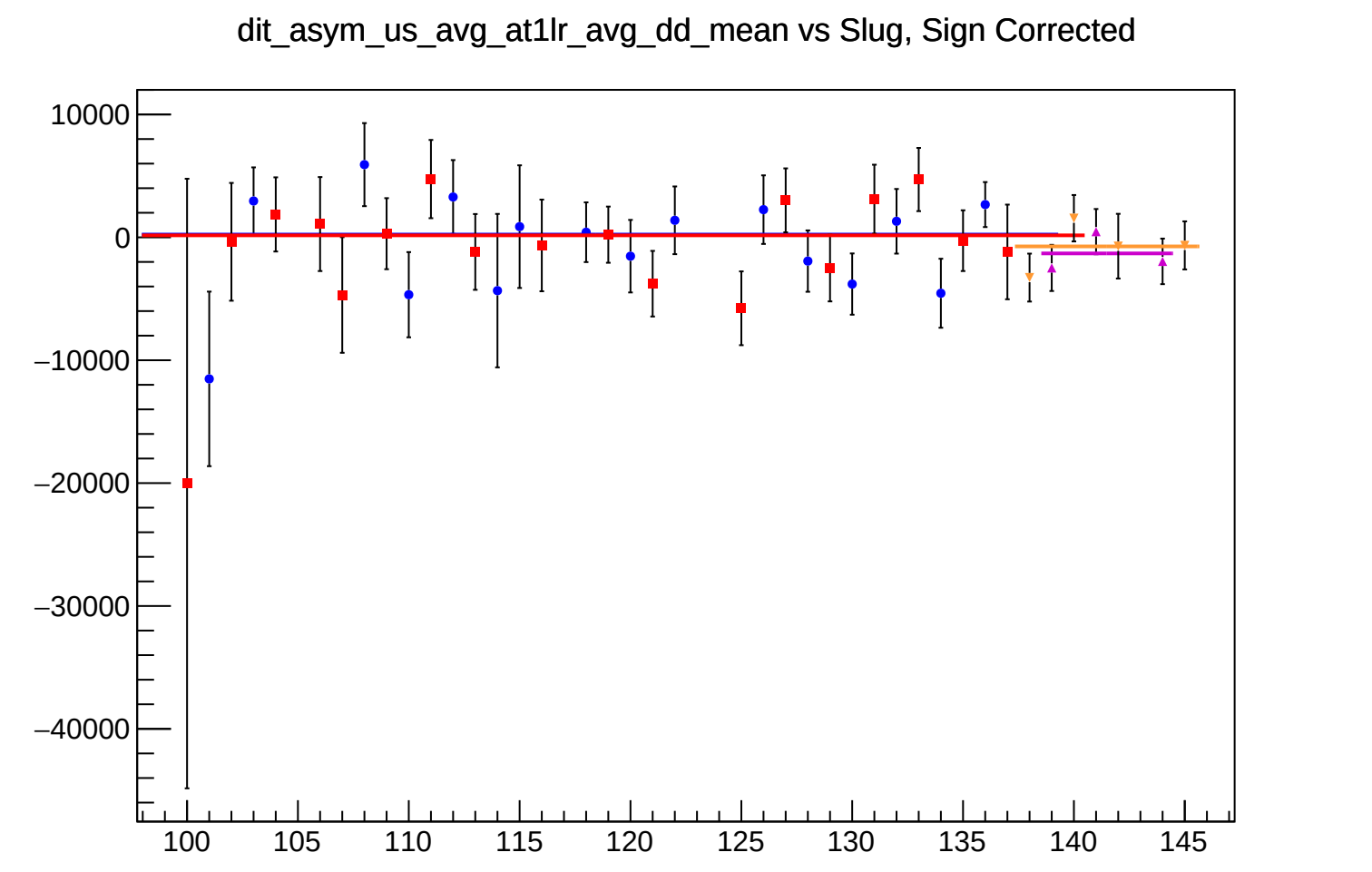
Left: 266.461+/-0.088 $\chi^2$/NDF: 1412266.2/6

Right: 562.892+/-0.114 $\chi^2$/NDF: 2755931.5/33

In: 402.440+/-0.103 $\chi^2$/NDF:3790317.6/18

Out: 356.405+/-0.095 $\chi^2$/NDF:4479588.0/21

All: 377.427+/-0.070 $\chi^2$/NDF: 8377451.7/40




Right In: 226.227+/-718.556 $\chi^2$/NDF: 19.4/15

Left Out: -736.198+/-1026.324 $\chi^2$/NDF:3.2/3

Right Out: 163.711+/-725.798 $\chi^2$/NDF: 17.0/17

Left In: -1307.052+/-1072.289 $\chi^2$/NDF:1.4/2

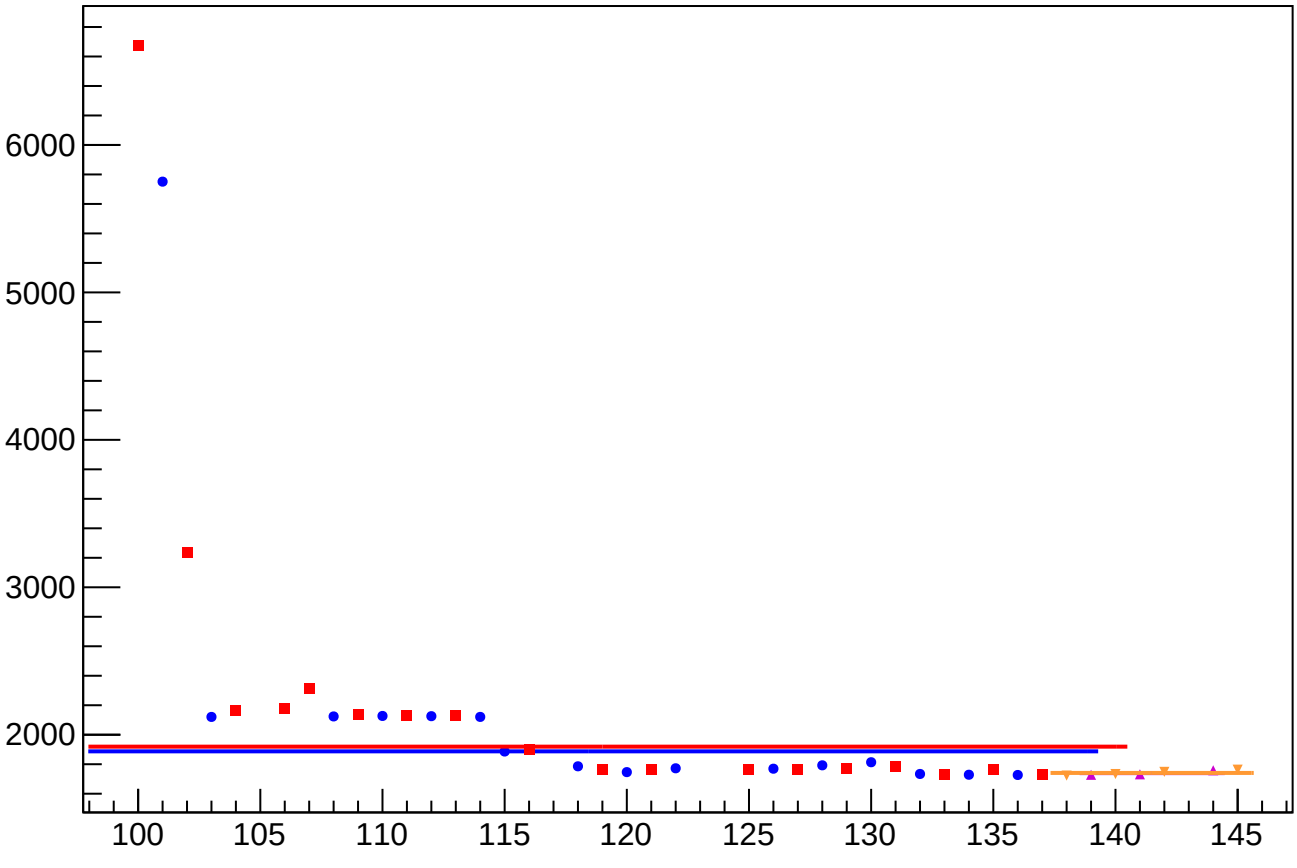
Left: -1009.128+/-741.438 $\chi^2$/NDF: 4.8/6

Right: 195.282+/-510.637 $\chi^2$/NDF: 36.4/33

In: -248.927+/-596.923 $\chi^2$/NDF:22.3/18

Out: -136.302+/-592.591 $\chi^2$/NDF:20.7/21

All: -192.204+/-420.548 $\chi^2$/NDF: 43.0/40




Right In: 1887.310+/-0.508 $\chi^2$/NDF: 689442.6/15

Left Out: 1740.901+/-0.726 $\chi^2$/NDF:474.7/3

Right Out: 1919.164+/-0.513 $\chi^2$/NDF: 352567.1/17

Left In: 1739.613+/-0.758 $\chi^2$/NDF:326.3/2

Left: 1740.285+/-0.524 $\chi^2$/NDF: 802.6/6

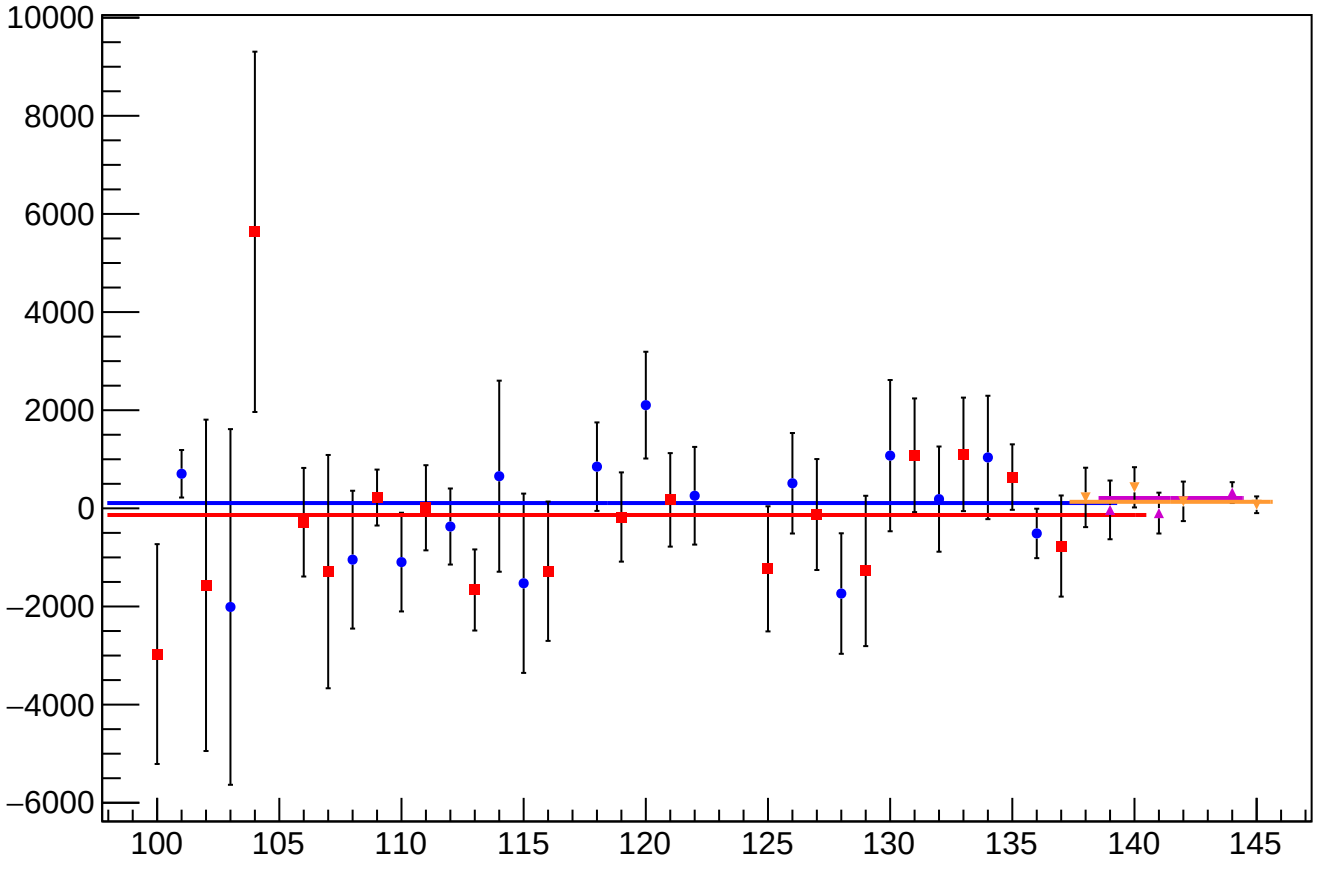
Right: 1903.077+/-0.361 $\chi^2$/NDF: 1043955.3/33

In: 1841.540+/-0.422 $\chi^2$/NDF:715954.9/18

Out: 1859.735+/-0.419 $\chi^2$/NDF:393263.8/21

All: 1850.703+/-0.297 $\chi^2$/NDF: 1110154.6/40

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: 132.986+/-142.406 $\chi^2$/NDF:0.7/3

Right Out: -135.358+/-245.933 $\chi^2$/NDF: 14.4/17

Left In: 210.684+/-180.333 $\chi^2$/NDF:1.0/2

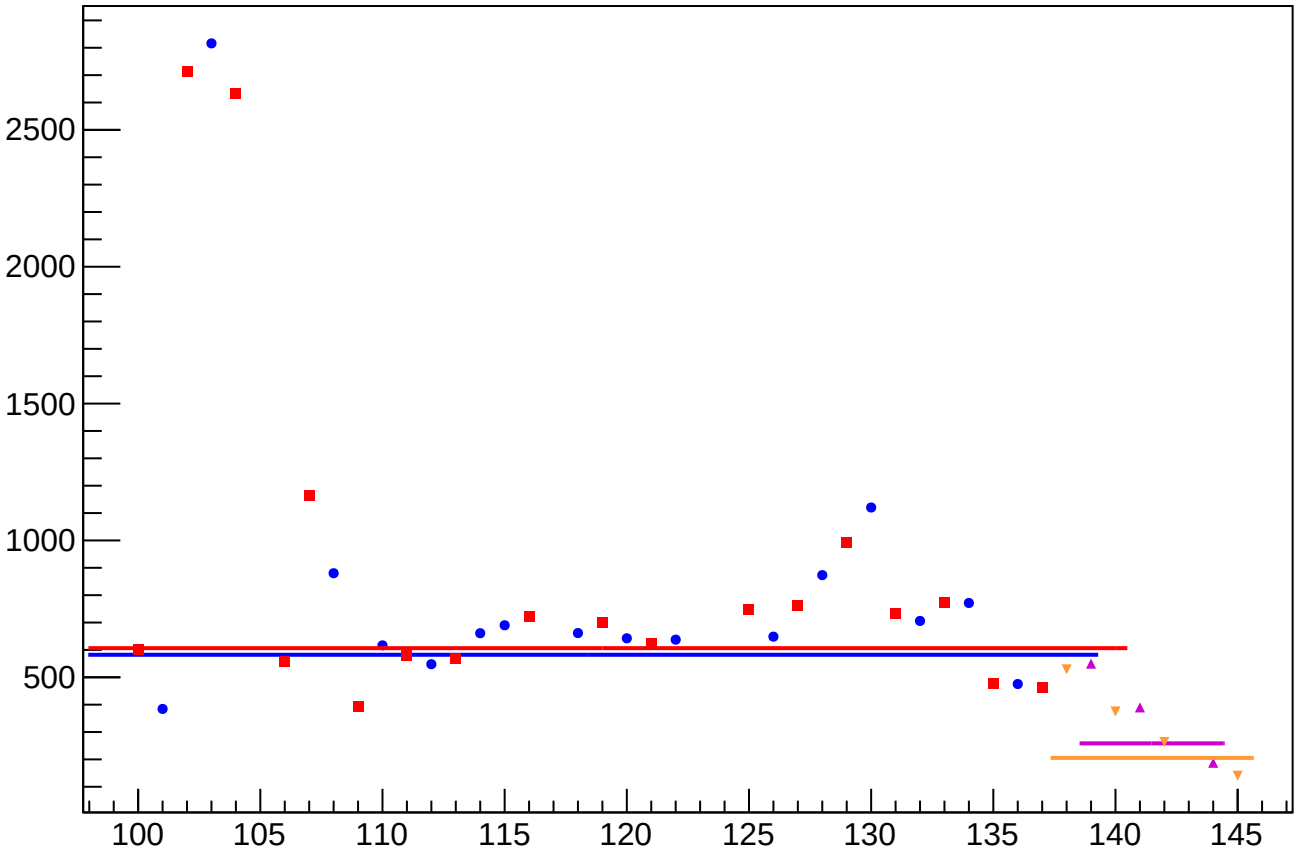
Left: 162.828+/-111.760 $\chi^2$/NDF: 1.8/6

Right: -6.369+/-168.648 $\chi^2$/NDF: 29.0/33

In: 171.999+/-142.312 $\chi^2$/NDF:15.3/18

Out: 65.605+/-123.236 $\chi^2$/NDF:15.9/21

All: 111.199+/-93.161 $\chi^2$/NDF: 31.5/40




Right In: 582.270+/-0.164 $\chi^2$/NDF: 1754301.3/15

Left Out: 205.464+/-0.101 $\chi^2$/NDF:1248431.6/3

Right Out: 606.451+/-0.174 $\chi^2$/NDF: 2198399.5/17

Left In: 258.632+/-0.128 $\chi^2$/NDF:895623.1/2

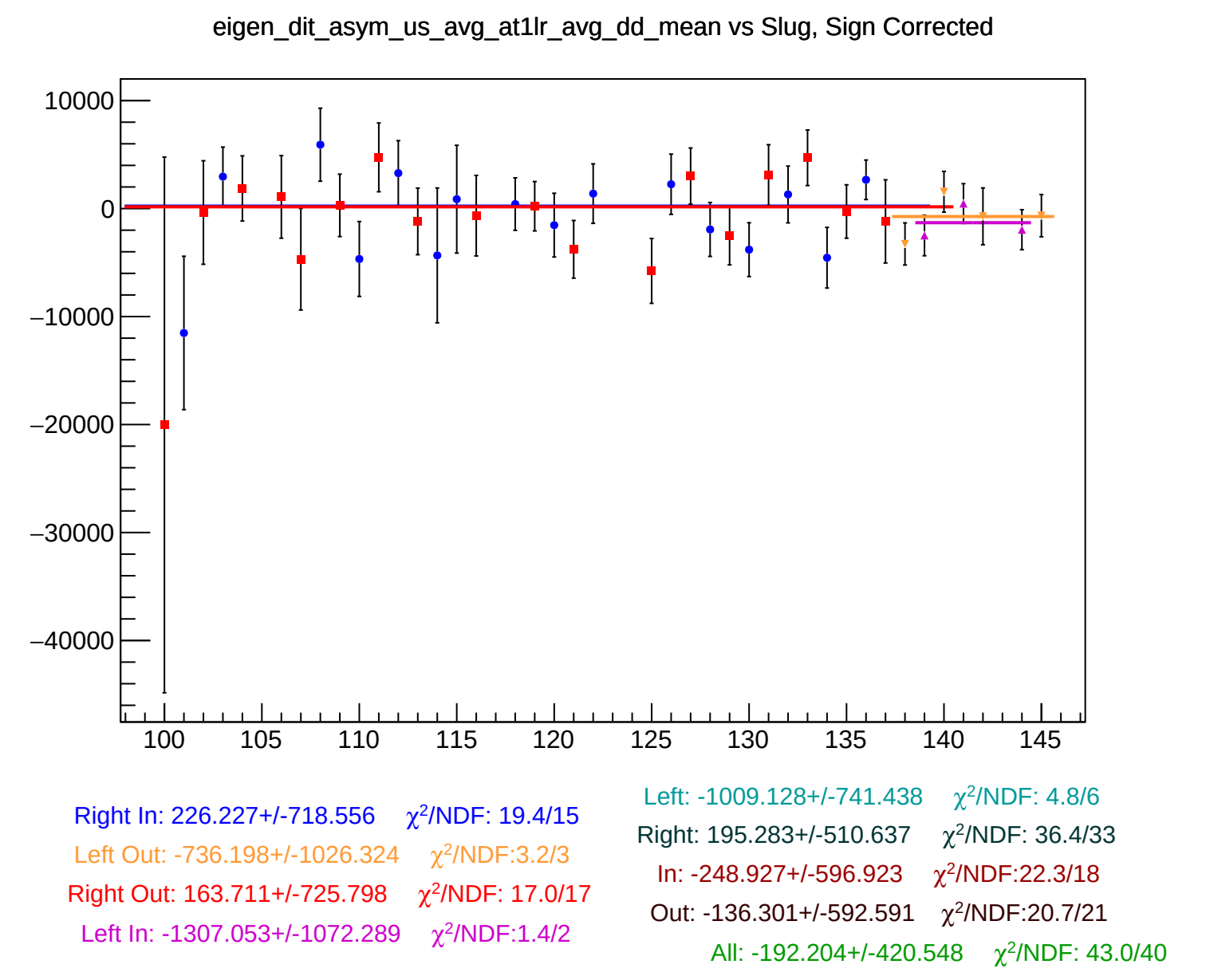
Left: 225.885+/-0.079 $\chi^2$/NDF: 2251134.1/6

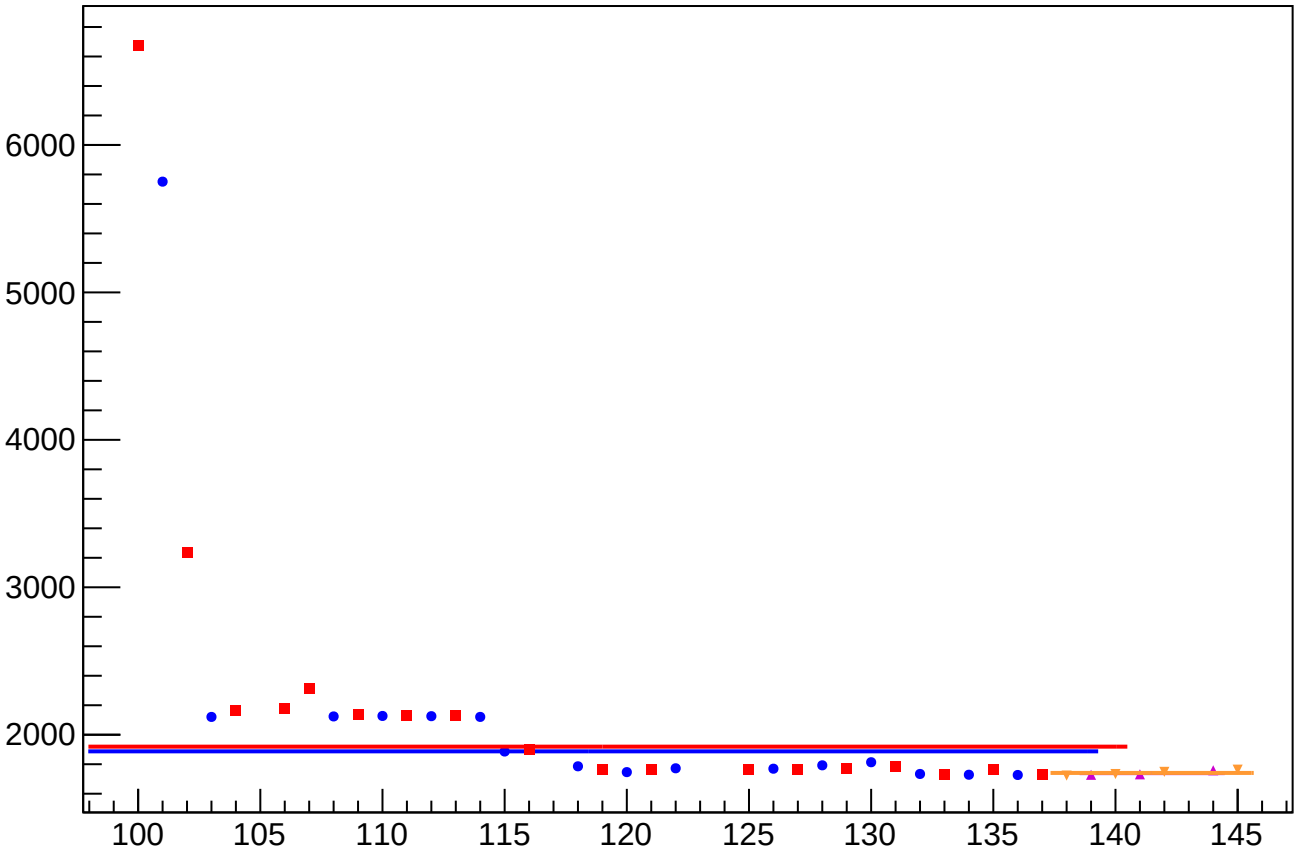
Right: 593.641+/-0.119 $\chi^2$/NDF: 3962943.2/33

In: 380.714+/-0.101 $\chi^2$/NDF:5079844.2/18

Out: 306.151+/-0.087 $\chi^2$/NDF:7428637.4/21

All: 338.104+/-0.066 $\chi^2$/NDF: 12822233.0/40


eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
105
110
115
120
125
130
135
140
145
Right In: 226.227+/-718.556 χ²/NDF: 19.4/15
Left Out: -736.198+/-1026.324 χ²/NDF:3.2/3
Right Out: 163.711+/-725.798 χ²/NDF: 17.0/17
Left In: -1307.053+/-1072.289 χ²/NDF:1.4/2
Left: -1009.128+/-741.438 χ²/NDF: 4.8/6
Right: 195.283+/-510.637 χ²/NDF: 36.4/33
In: -248.927+/-596.923 χ²/NDF:22.3/18
Out: -136.301+/-592.591 χ²/NDF:20.7/21
All: -192.204+/-420.548 χ²/NDF: 43.0/40




Right In: 1887.310+/-0.508 $\chi^2$/NDF: 689442.4/15

Left Out: 1740.901+/-0.726 $\chi^2$/NDF:474.7/3

Right Out: 1919.164+/-0.513 $\chi^2$/NDF: 352566.4/17

Left In: 1739.613+/-0.758 $\chi^2$/NDF:326.3/2

Left: 1740.285+/-0.524 $\chi^2$/NDF: 802.6/6

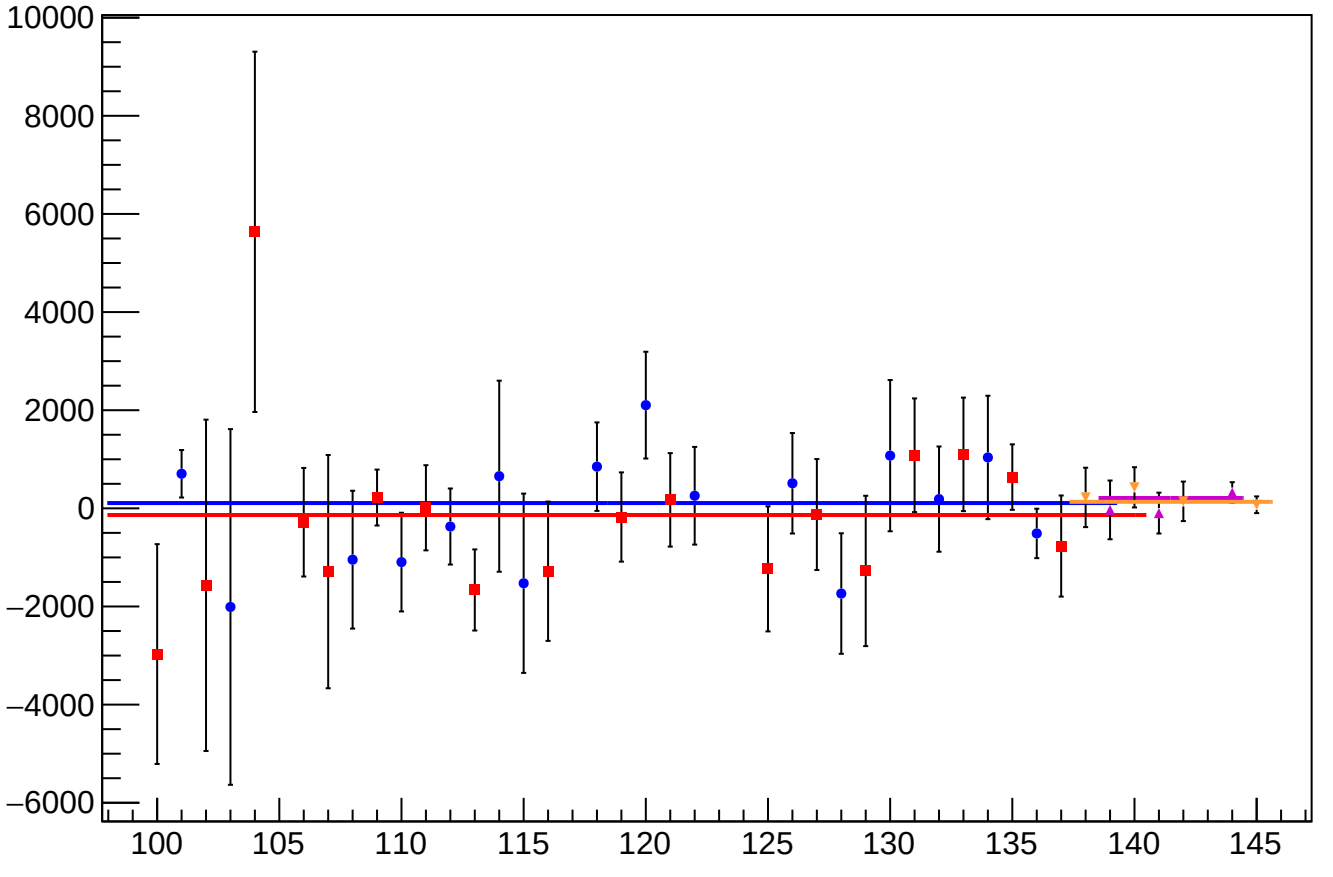
Right: 1903.077+/-0.361 $\chi^2$/NDF: 1043954.3/33

In: 1841.539+/-0.422 $\chi^2$/NDF:715954.6/18

Out: 1859.735+/-0.419 $\chi^2$/NDF:393263.0/21

All: 1850.703+/-0.297 $\chi^2$/NDF: 1110153.5/40

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 108.128+/-231.710 $\chi^2$/NDF: 14.2/15

Left Out: 132.985+/-142.406 $\chi^2$/NDF:0.7/3

Right Out: -135.356+/-245.932 $\chi^2$/NDF: 14.4/17

Left In: 210.684+/-180.333 $\chi^2$/NDF:1.0/2

Left: 162.828+/-111.760 $\chi^2$/NDF: 1.8/6

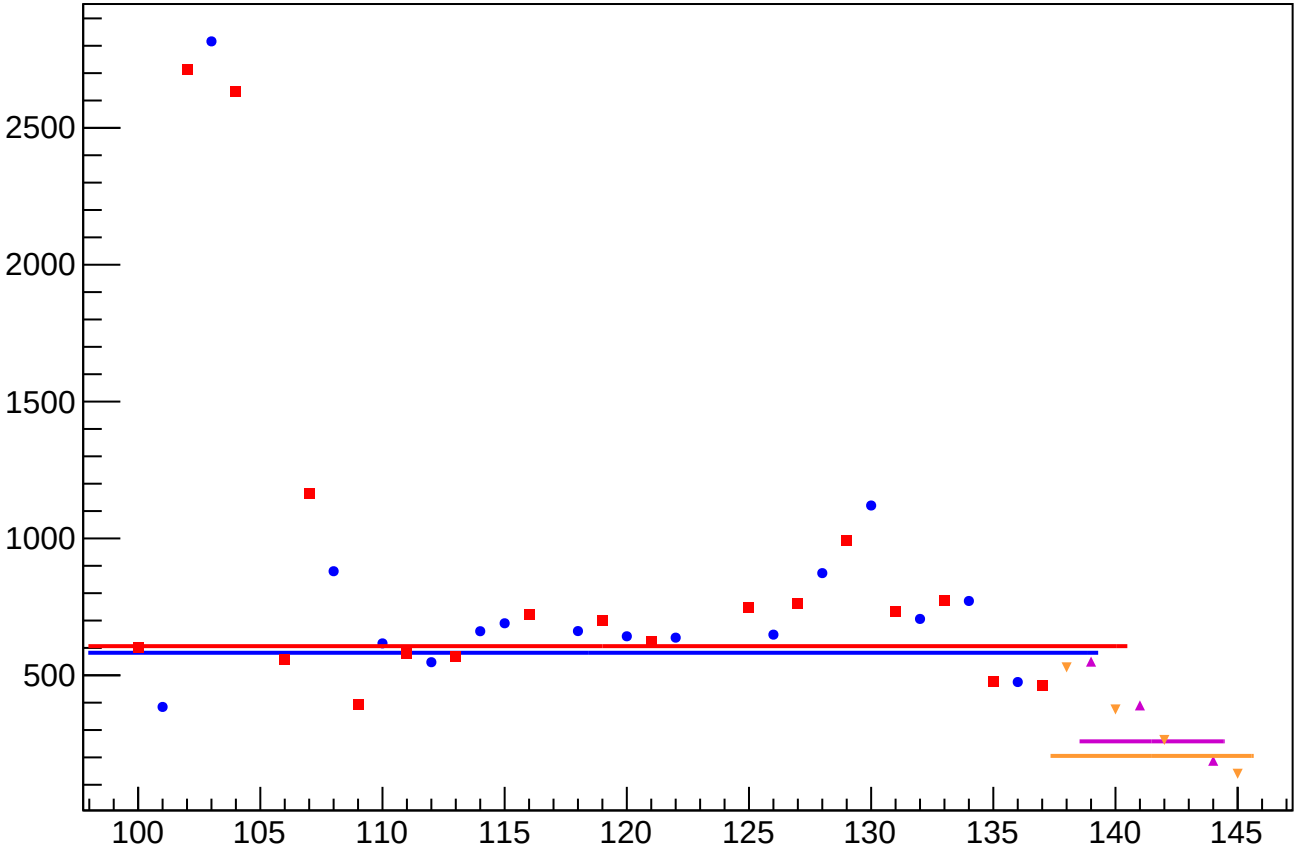
Right: -6.371+/-168.647 $\chi^2$/NDF: 29.0/33

In: 171.998+/-142.312 $\chi^2$/NDF:15.3/18

Out: 65.604+/-123.236 $\chi^2$/NDF:15.9/21

All: 111.197+/-93.161 $\chi^2$/NDF: 31.5/40

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: 205.464+/-0.101 $\chi^2$/NDF:1248445.0/3

Right Out: 606.447+/-0.174 $\chi^2$/NDF: 2198414.3/17

Left In: 258.632+/-0.128 $\chi^2$/NDF:895629.6/2

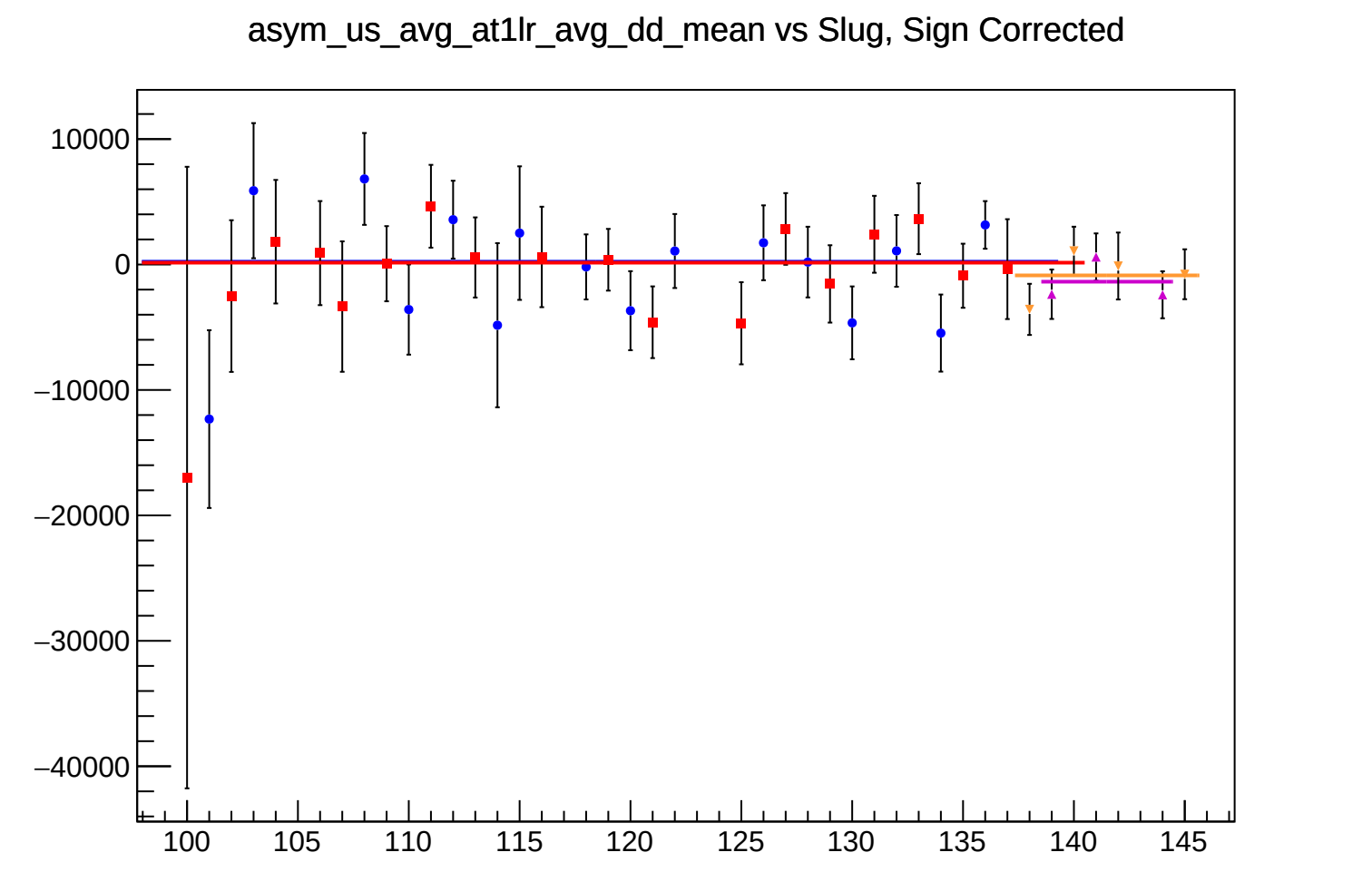
Left: 225.885+/-0.079 $\chi^2$/NDF: 2251154.9/6

Right: 593.638+/-0.119 $\chi^2$/NDF: 3962944.4/33

In: 380.715+/-0.101 $\chi^2$/NDF:5079818.0/18

Out: 306.151+/-0.087 $\chi^2$/NDF:7428626.3/21

All: 338.104+/-0.066 $\chi^2$/NDF: 12822198.9/40




Right In: 224.521+/-791.678 $\chi^2$/NDF: 21.2/15

Left Out: -866.251+/-1052.853 $\chi^2$/NDF:2.9/3

Right Out: 147.974+/-794.180 $\chi^2$/NDF: 11.6/17

Left In: -1368.859+/-1101.321 $\chi^2$/NDF:1.7/2

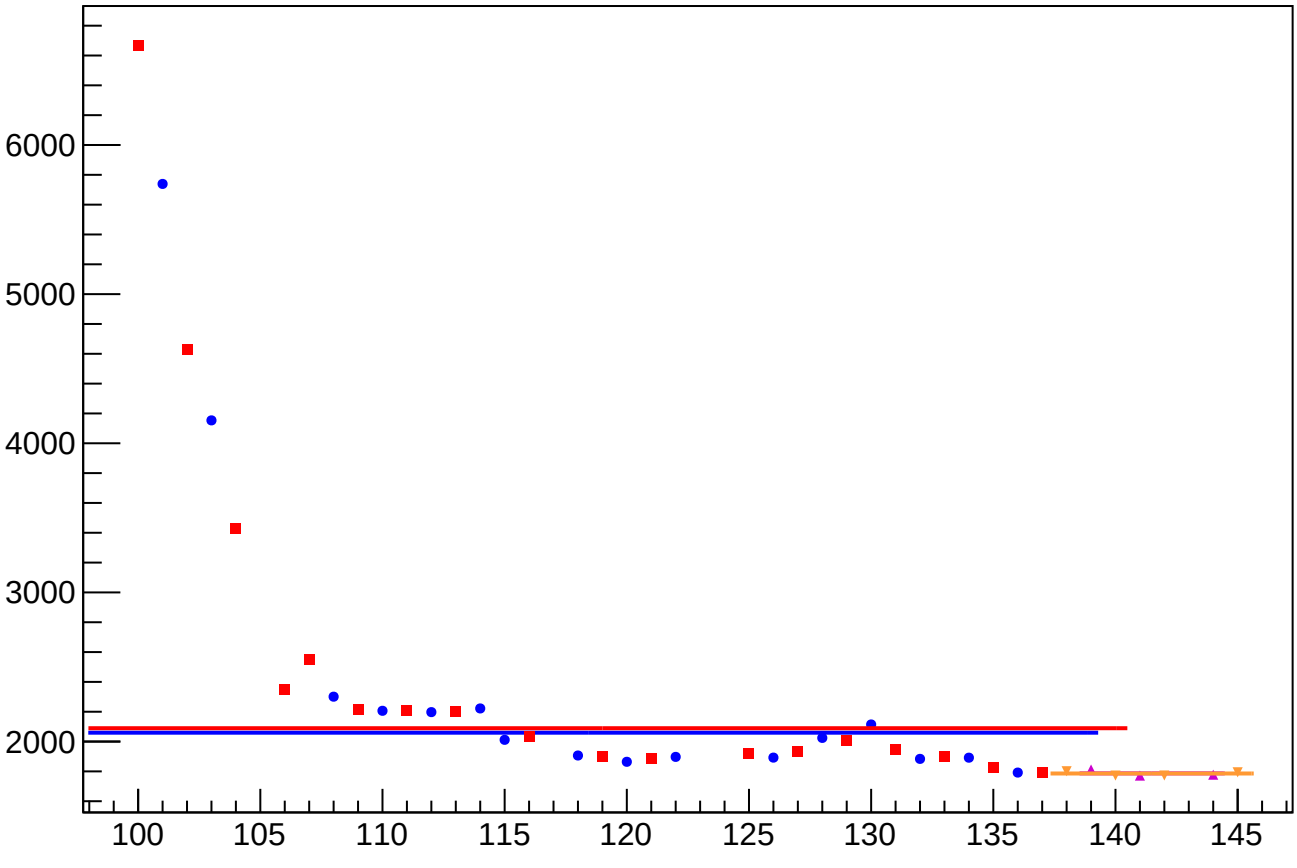
Left: -1106.252+/-761.037 $\chi^2$/NDF: 4.6/6

Right: 186.369+/-560.683 $\chi^2$/NDF: 32.7/33

In: -318.327+/-642.826 $\chi^2$/NDF:24.2/18

Out: -219.830+/-634.029 $\chi^2$/NDF:15.0/21

All: -268.400+/-451.404 $\chi^2$/NDF: 39.3/40




Right In: 2059.496+/-0.560 $\chi^2$/NDF: 939873.6/15

Left Out: 1785.868+/-0.744 $\chi^2$/NDF:296.2/3

Right Out: 2089.476+/-0.562 $\chi^2$/NDF: 681465.8/17

Left In: 1786.689+/-0.779 $\chi^2$/NDF:520.4/2

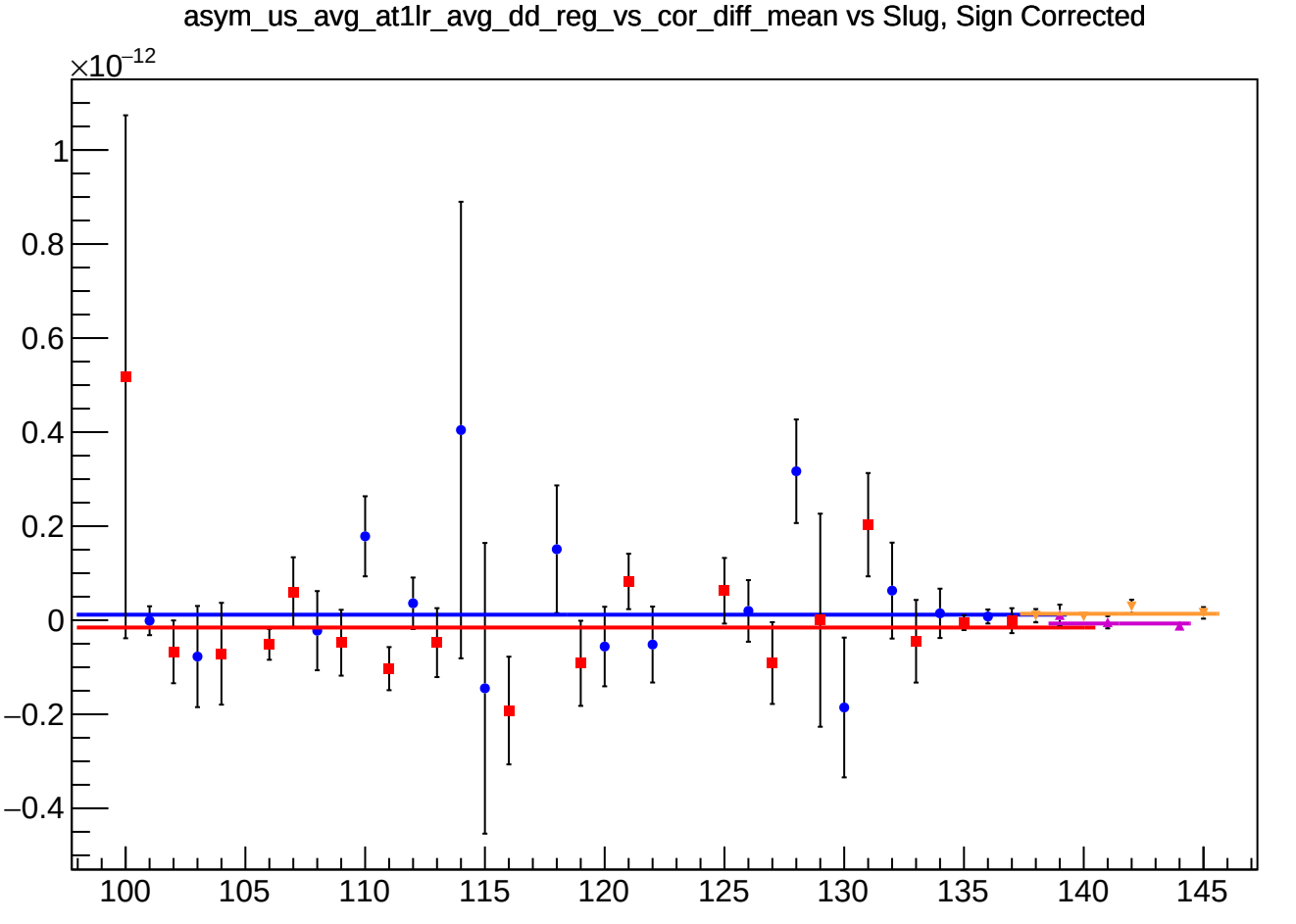
Left: 1786.260+/-0.538 $\chi^2$/NDF: 817.1/6

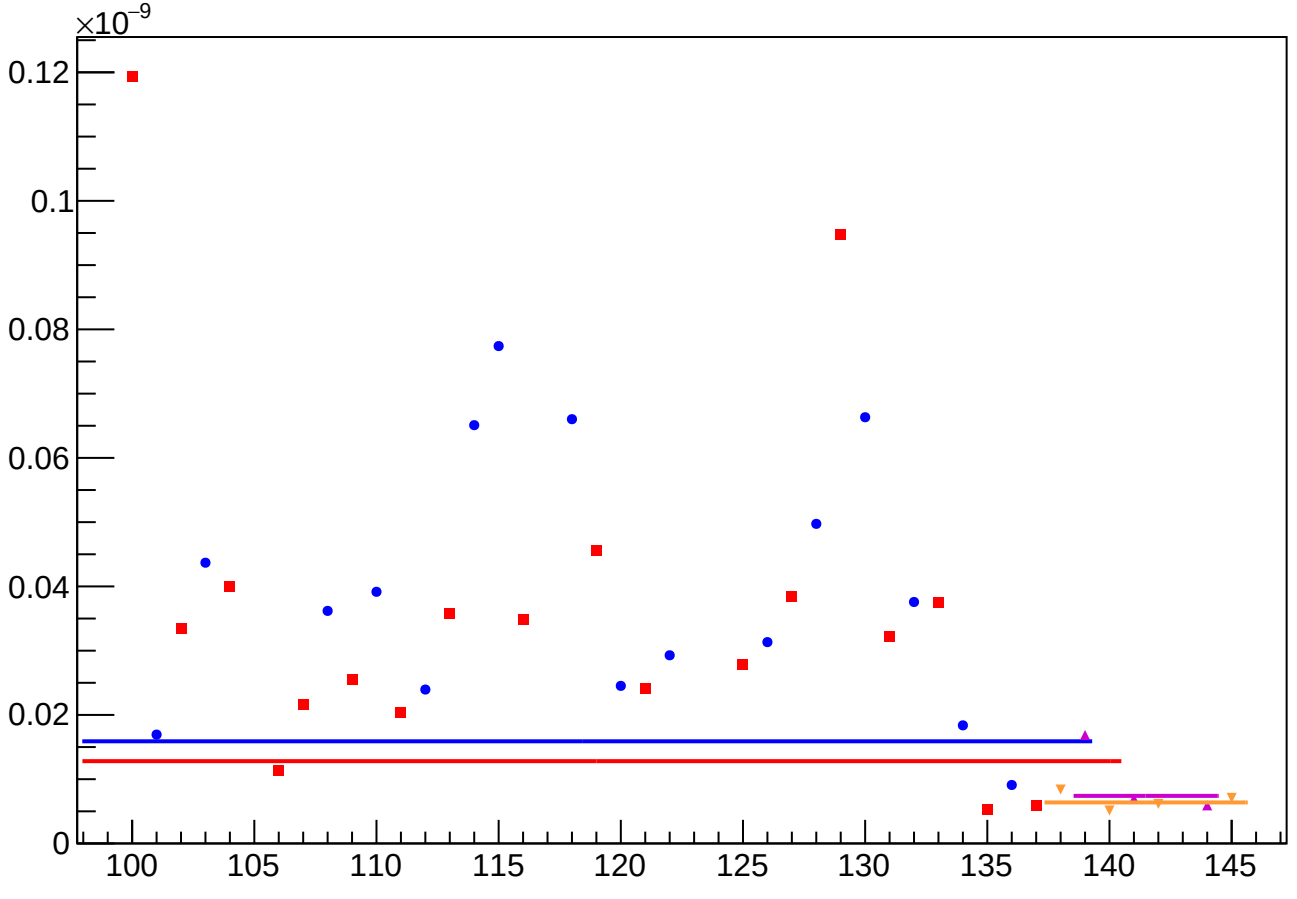
Right: 2074.439+/-0.396 $\chi^2$/NDF: 1622768.9/33

In: 1966.554+/-0.455 $\chi^2$/NDF:1021303.9/18

Out: 1979.374+/-0.448 $\chi^2$/NDF:787761.8/21

All: 1973.052+/-0.319 $\chi^2$/NDF: 1809469.0/40


asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 18.0/15
Left Out: 0.000+/-0.000 χ²/NDF:1.6/3
Right Out: -0.000+/-0.000 χ²/NDF: 20.7/17
Left In: -0.000+/-0.000 χ²/NDF:1.0/2
Left: 0.000+/-0.000 χ²/NDF: 7.5/6
Right: -0.000+/-0.000 χ²/NDF: 41.8/33
In: -0.000+/-0.000 χ²/NDF:20.9/18
Out: 0.000+/-0.000 χ²/NDF:28.0/21
All: 0.000+/-0.000 χ²/NDF: 50.0/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1935582.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:80995.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2486058.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:426322.5/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 531115.9/6

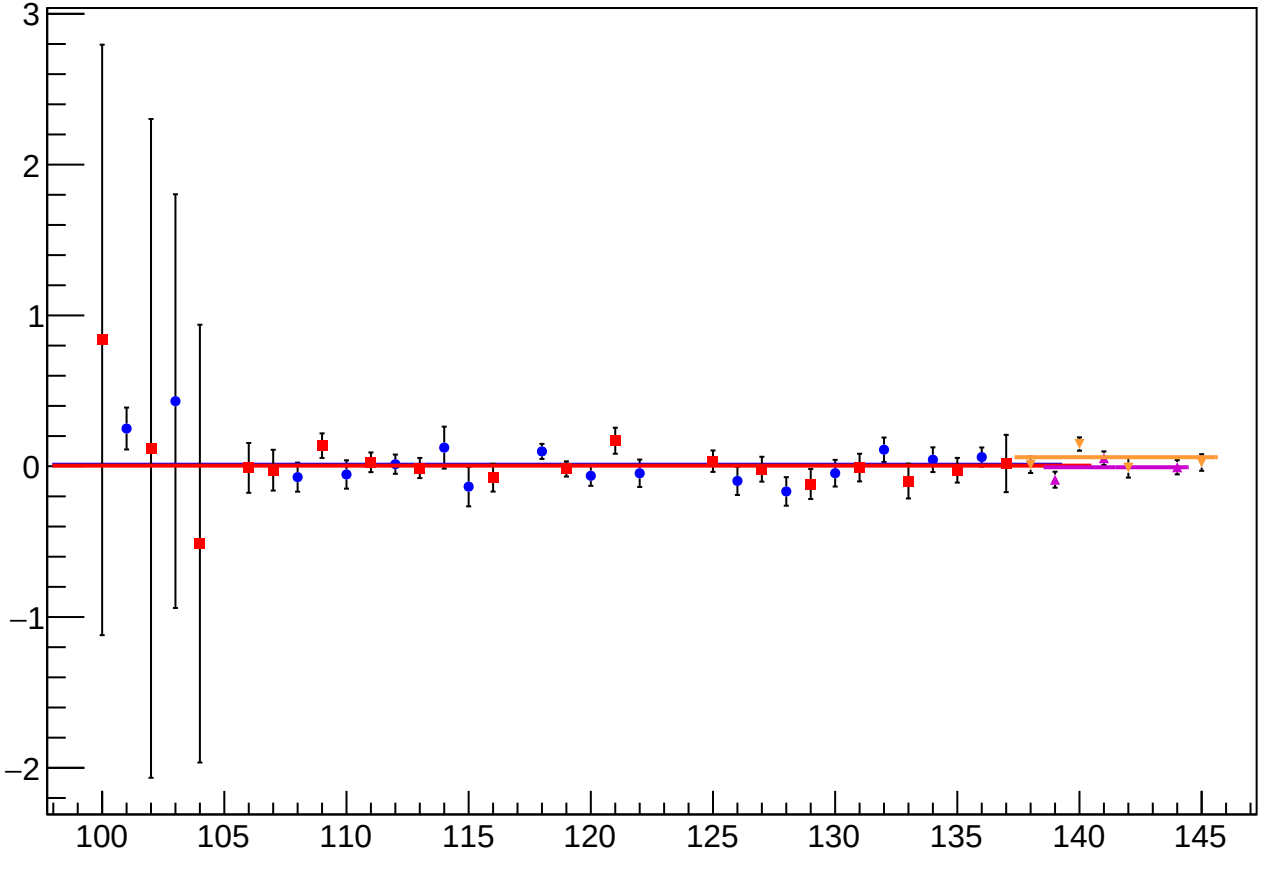
Right: 0.000+/-0.000 $\chi^2$/NDF: 4498662.7/33

In: 0.000+/-0.000 $\chi^2$/NDF:3141345.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3114670.4/21

All: 0.000+/-0.000 $\chi^2$/NDF: 6355688.3/40

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: 0.060+/-0.027 $\chi^2$/NDF:6.2/3

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: -0.007+/-0.028 $\chi^2$/NDF:4.2/2

Left: 0.028+/-0.019 $\chi^2$/NDF: 13.3/6

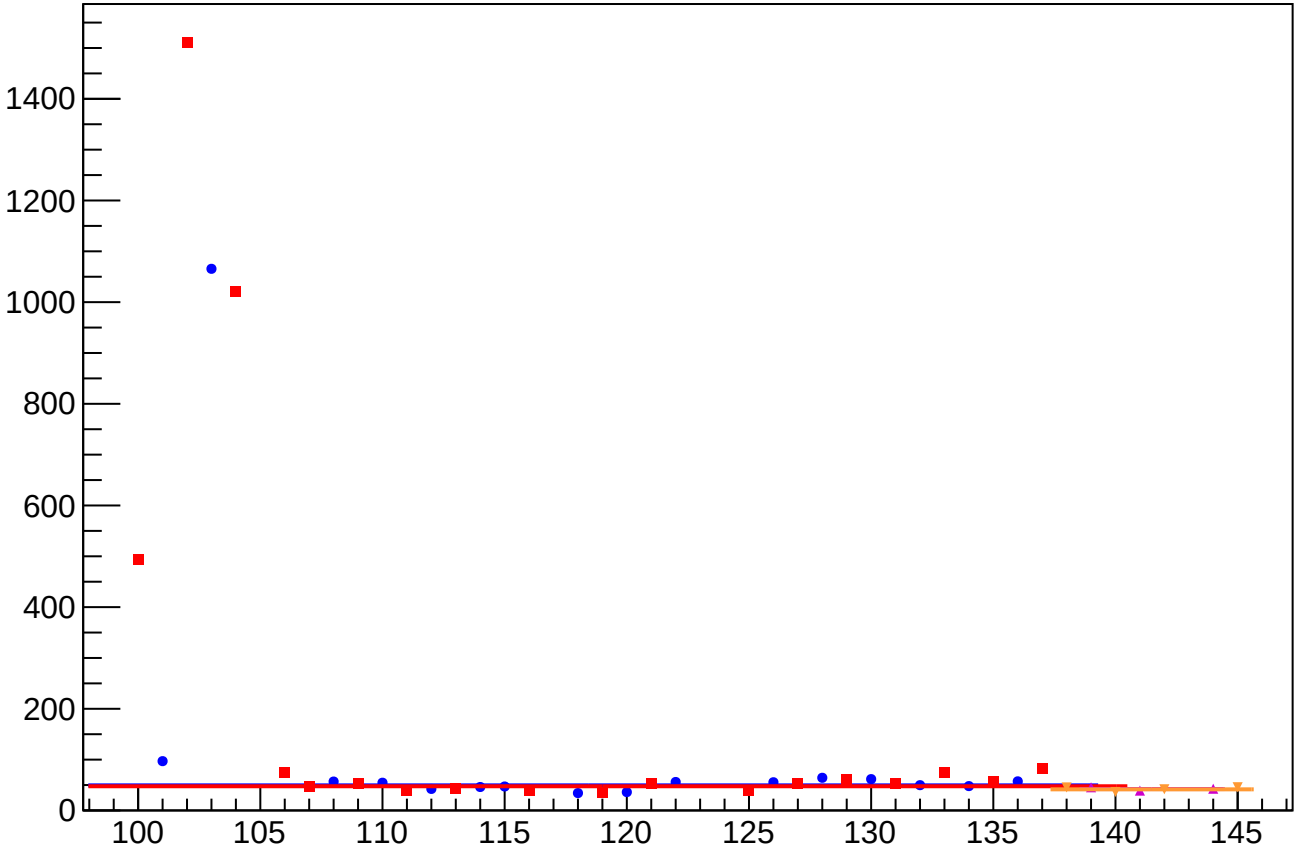
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: 0.004+/-0.017 $\chi^2$/NDF:22.9/18

Out: 0.026+/-0.017 $\chi^2$/NDF:19.3/21

All: 0.015+/-0.012 $\chi^2$/NDF: 43.1/40

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: 41.534+/-0.019 $\chi^2$/NDF:47540.3/3

Right Out: 47.599+/-0.015 $\chi^2$/NDF: 2418219.3/17

Left In: 42.145+/-0.020 $\chi^2$/NDF:18280.1/2

Left: 41.828+/-0.014 $\chi^2$/NDF: 66321.1/6

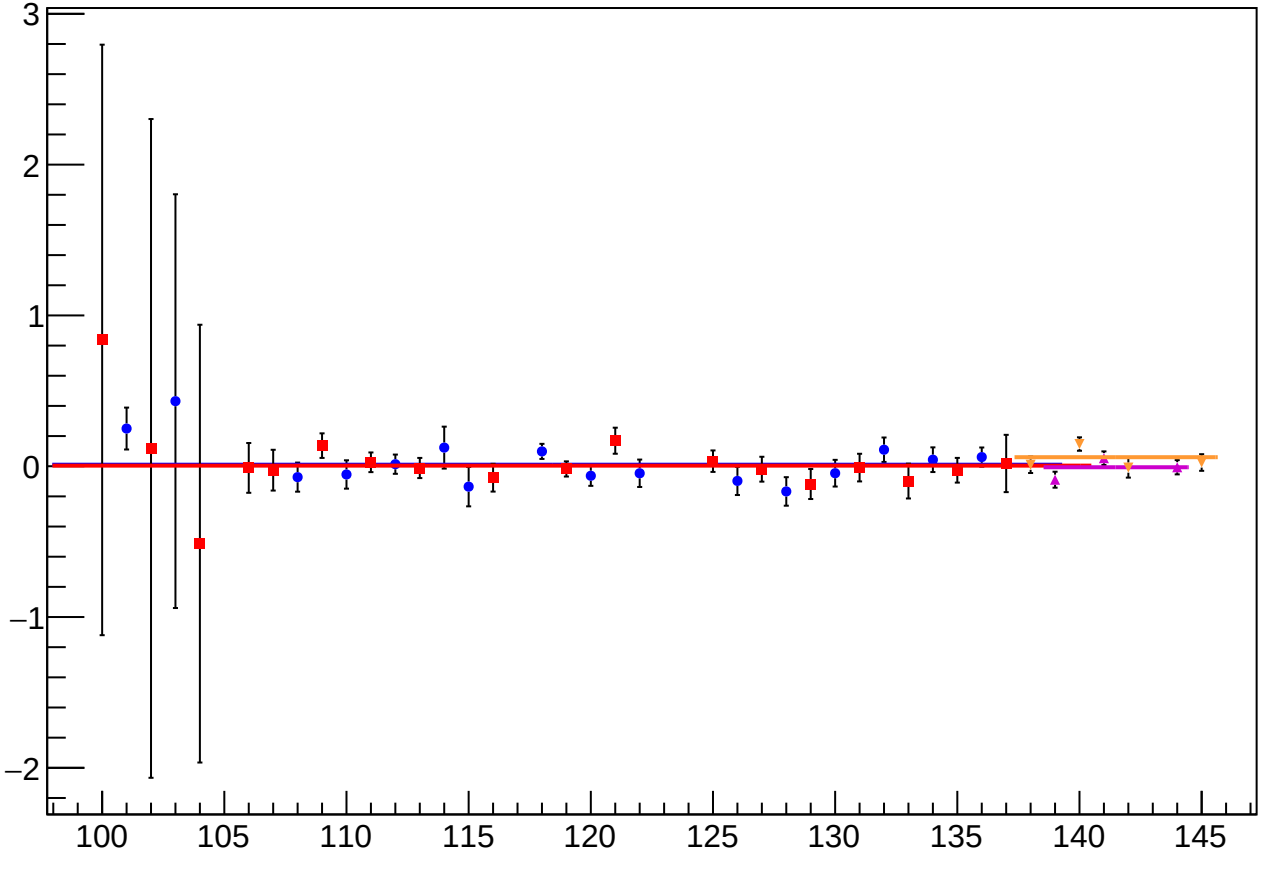
Right: 48.487+/-0.011 $\chi^2$/NDF: 4201890.6/33

In: 46.728+/-0.012 $\chi^2$/NDF:1880530.2/18

Out: 45.225+/-0.012 $\chi^2$/NDF:2528126.9/21

All: 45.978+/-0.008 $\chi^2$/NDF: 4416716.4/40

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: 0.060+/-0.027 $\chi^2$/NDF:6.2/3

Right Out: 0.004+/-0.021 $\chi^2$/NDF: 10.5/17

Left In: -0.007+/-0.028 $\chi^2$/NDF:4.2/2

Left: 0.028+/-0.019 $\chi^2$/NDF: 13.3/6

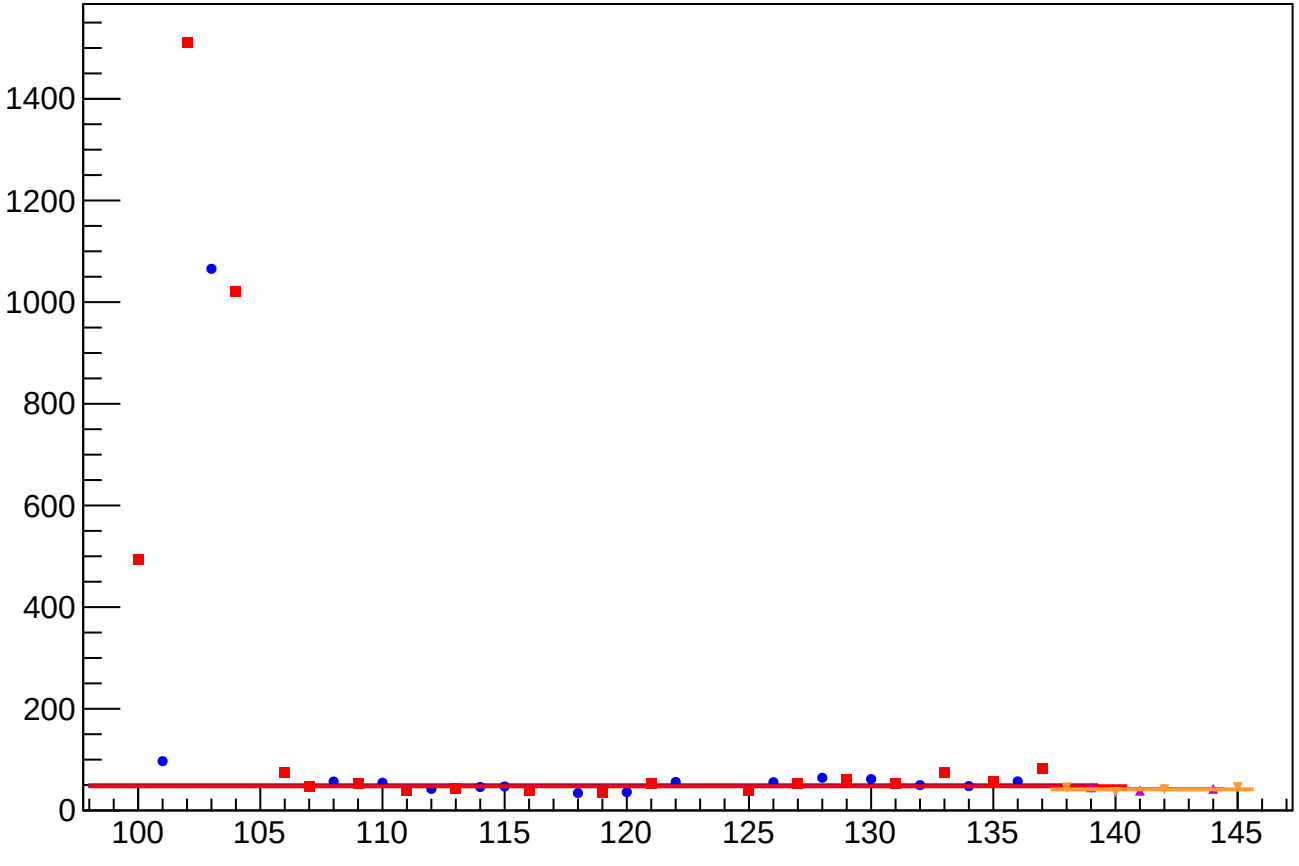
Right: 0.007+/-0.015 $\chi^2$/NDF: 29.0/33

In: 0.004+/-0.017 $\chi^2$/NDF:22.9/18

Out: 0.026+/-0.017 $\chi^2$/NDF:19.3/21

All: 0.015+/-0.012 $\chi^2$/NDF: 43.1/40

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: 41.534+/-0.019 $\chi^2$/NDF:47540.3/3

Right Out: 47.599+/-0.015 $\chi^2$/NDF: 2418219.3/17

Left In: 42.145+/-0.020 $\chi^2$/NDF:18280.1/2

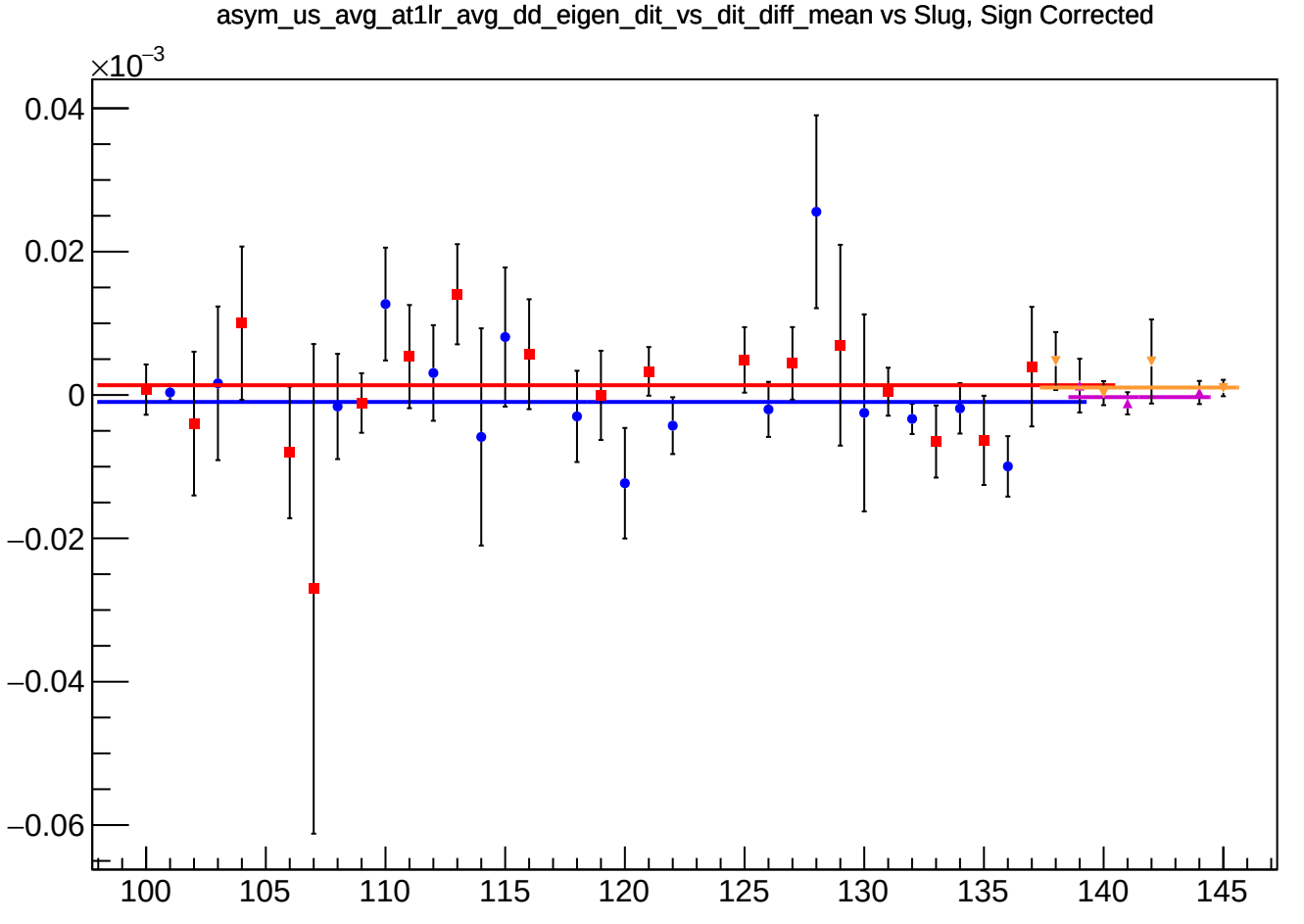
Left: 41.828+/-0.014 $\chi^2$/NDF: 66321.1/6

Right: 48.487+/-0.011 $\chi^2$/NDF: 4201890.6/33

In: 46.728+/-0.012 $\chi^2$/NDF:1880530.2/18

Out: 45.225+/-0.012 $\chi^2$/NDF:2528126.9/21

All: 45.978+/-0.008 $\chi^2$/NDF: 4416716.4/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.6/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.7/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 3.0/6

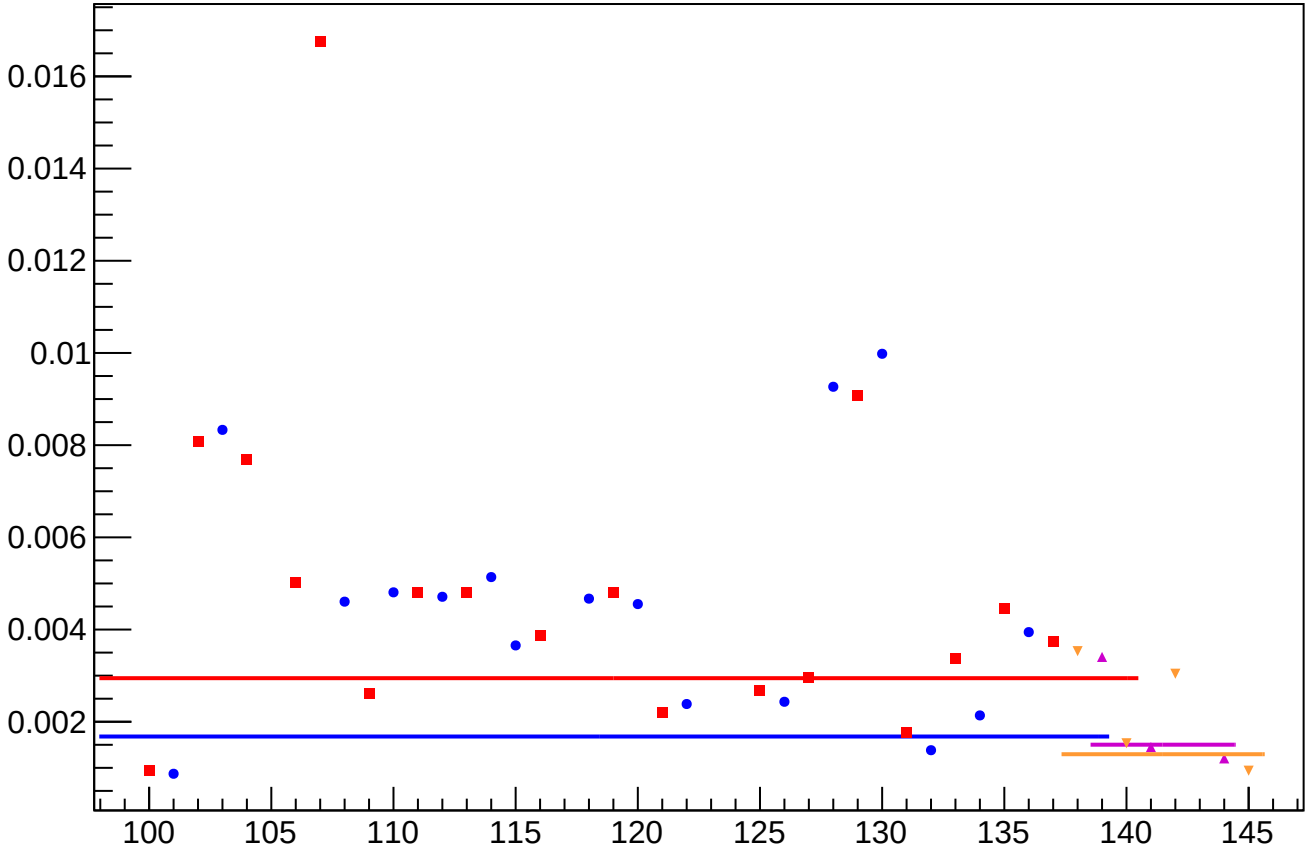
Right: -0.000+/-0.000 $\chi^2$/NDF: 33.6/33

In: -0.000+/-0.000 $\chi^2$/NDF:19.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:14.1/21

All: 0.000+/-0.000 $\chi^2$/NDF: 37.2/40

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:1023639.0/3

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3379848.5/17

Left In: 0.002+/-0.000 $\chi^2$/NDF:586114.4/2

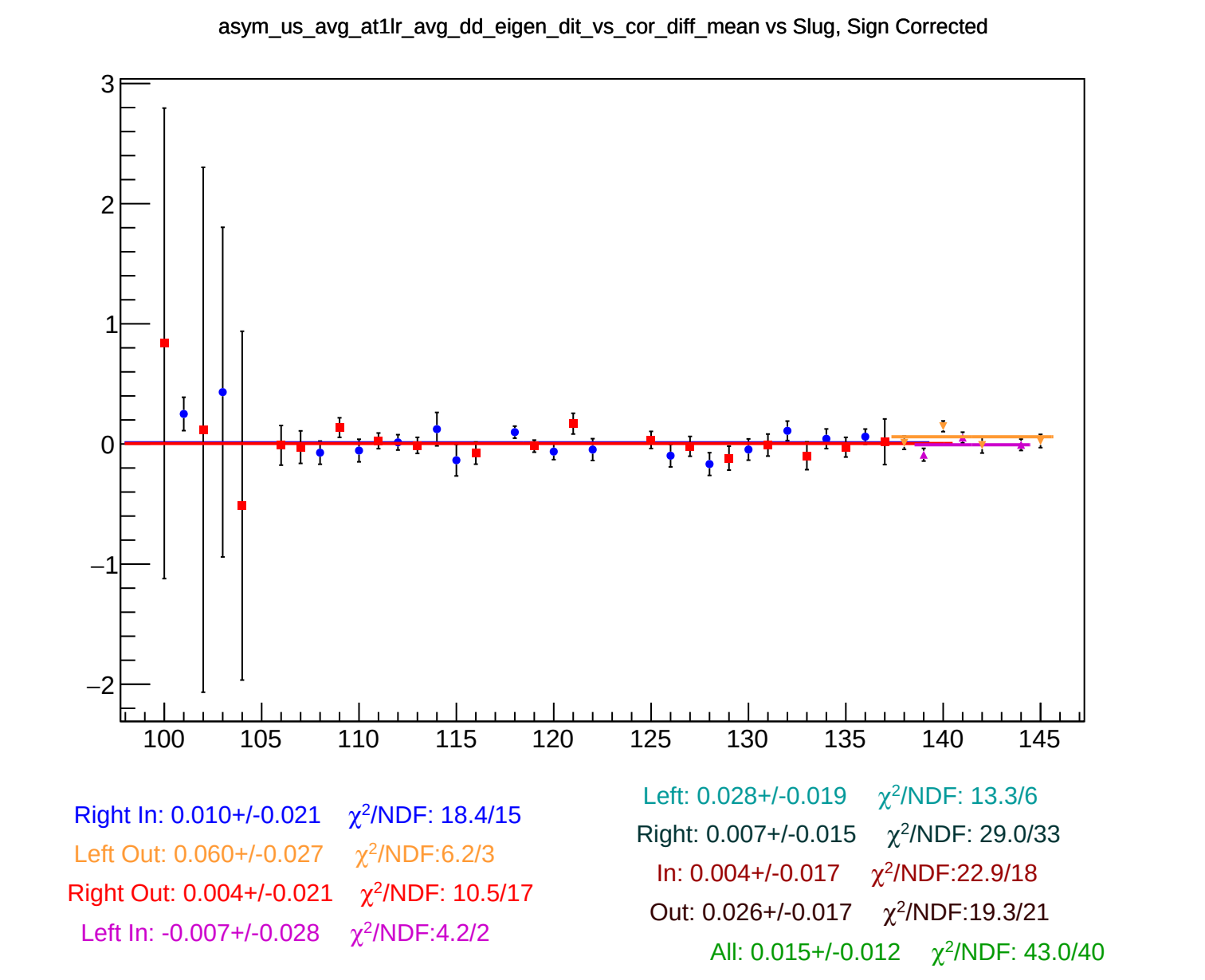
Left: 0.001+/-0.000 $\chi^2$/NDF: 1652988.3/6

Right: 0.002+/-0.000 $\chi^2$/NDF: 10702272.5/33

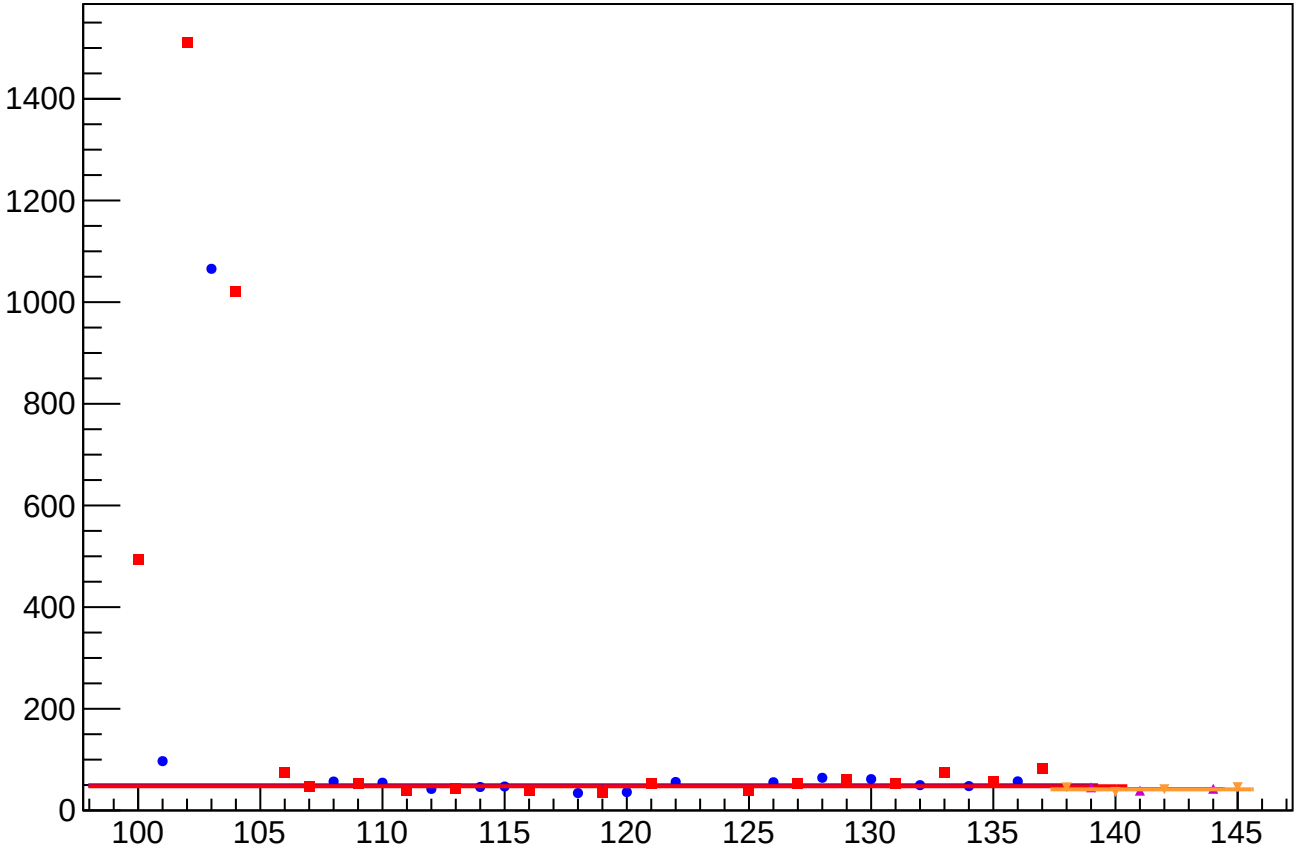
In: 0.002+/-0.000 $\chi^2$/NDF:6580683.9/18

Out: 0.002+/-0.000 $\chi^2$/NDF:6588220.0/21

All: 0.002+/-0.000 $\chi^2$/NDF: 13277323.2/40


asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
3
2
1
0
−1
−2
100
105
110
115
120
125
130
135
140
145
Right In: 0.010+/-0.021 χ²/NDF: 18.4/15
Left Out: 0.060+/-0.027 χ²/NDF:6.2/3
Right Out: 0.004+/-0.021 χ²/NDF: 10.5/17
Left In: -0.007+/-0.028 χ²/NDF:4.2/2
Left: 0.028+/-0.019 χ²/NDF: 13.3/6
Right: 0.007+/-0.015 χ²/NDF: 29.0/33
In: 0.004+/-0.017 χ²/NDF:22.9/18
Out: 0.026+/-0.017 χ²/NDF:19.3/21
All: 0.015+/-0.012 χ²/NDF: 43.0/40

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: 41.534+/-0.019 $\chi^2$/NDF:47546.7/3

Right Out: 47.598+/-0.015 $\chi^2$/NDF: 2418253.9/17

Left In: 42.144+/-0.020 $\chi^2$/NDF:18279.0/2

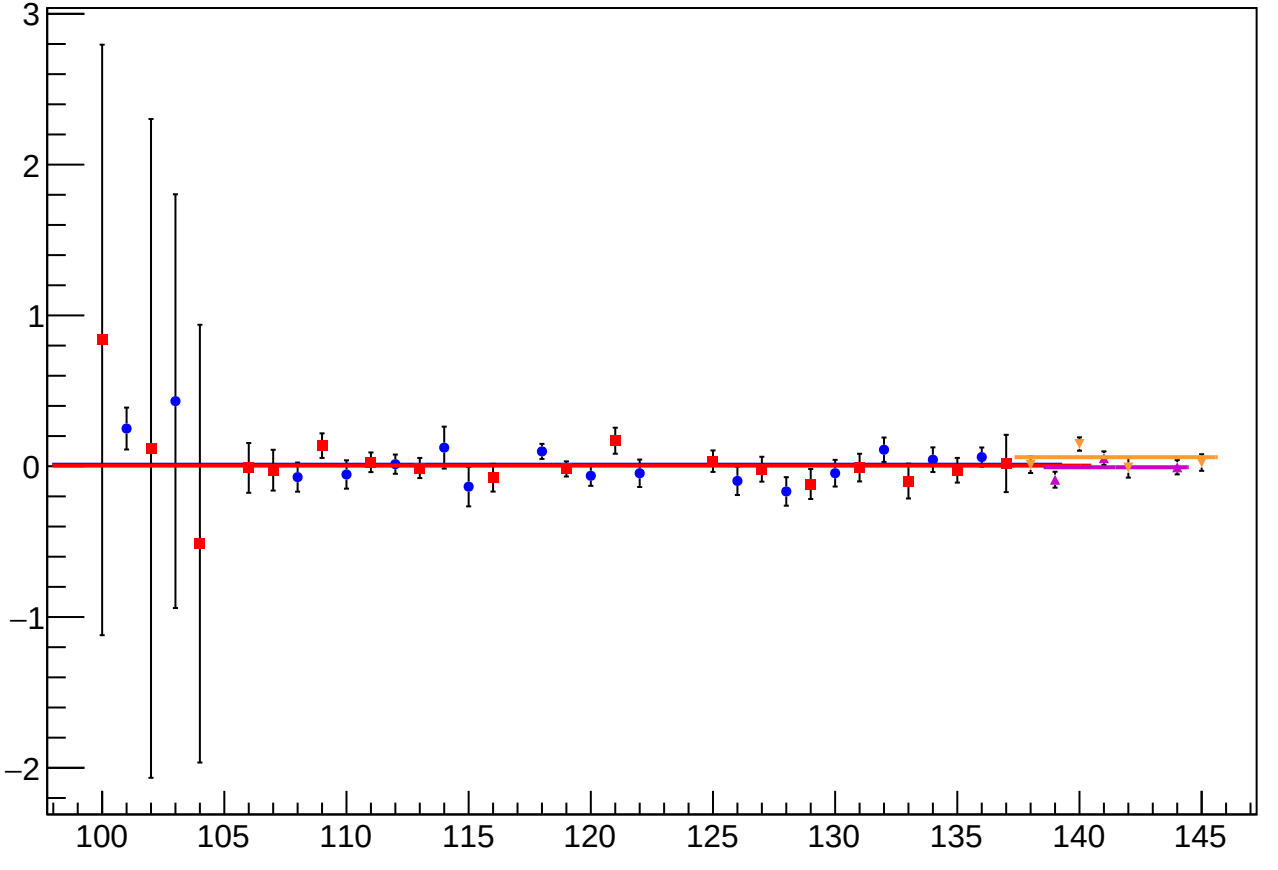
Left: 41.828+/-0.014 $\chi^2$/NDF: 66325.4/6

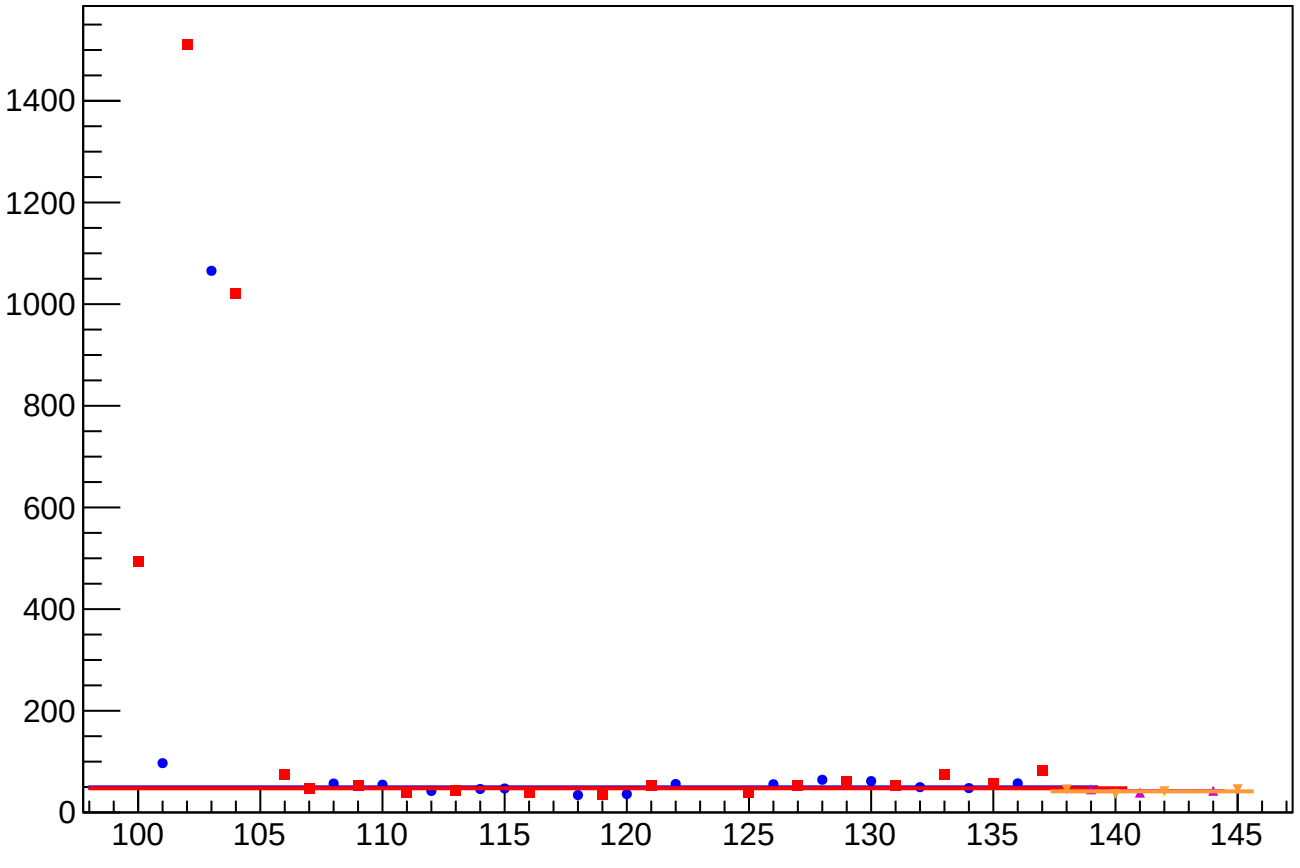
Right: 48.487+/-0.011 $\chi^2$/NDF: 4201863.1/33

In: 46.728+/-0.012 $\chi^2$/NDF:1880480.0/18

Out: 45.224+/-0.012 $\chi^2$/NDF:2528147.9/21

All: 45.978+/-0.008 $\chi^2$/NDF: 4416691.8/40


asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
3
2
1
0
−1
−2
100
105
110
115
120
125
130
135
140
145
Right In: 0.010+/-0.021 χ²/NDF: 18.4/15
Left Out: 0.060+/-0.027 χ²/NDF:6.2/3
Right Out: 0.004+/-0.021 χ²/NDF: 10.5/17
Left In: -0.007+/-0.028 χ²/NDF:4.2/2
Left: 0.028+/-0.019 χ²/NDF: 13.3/6
Right: 0.007+/-0.015 χ²/NDF: 29.0/33
In: 0.004+/-0.017 χ²/NDF:22.9/18
Out: 0.026+/-0.017 χ²/NDF:19.3/21
All: 0.015+/-0.012 χ²/NDF: 43.0/40




Right In: 49.333+/-0.015 $\chi^2$/NDF: 1776926.6/15

Left Out: 41.534+/-0.019 $\chi^2$/NDF:47546.7/3

Right Out: 47.598+/-0.015 $\chi^2$/NDF: 2418253.9/17

Left In: 42.144+/-0.020 $\chi^2$/NDF:18279.0/2

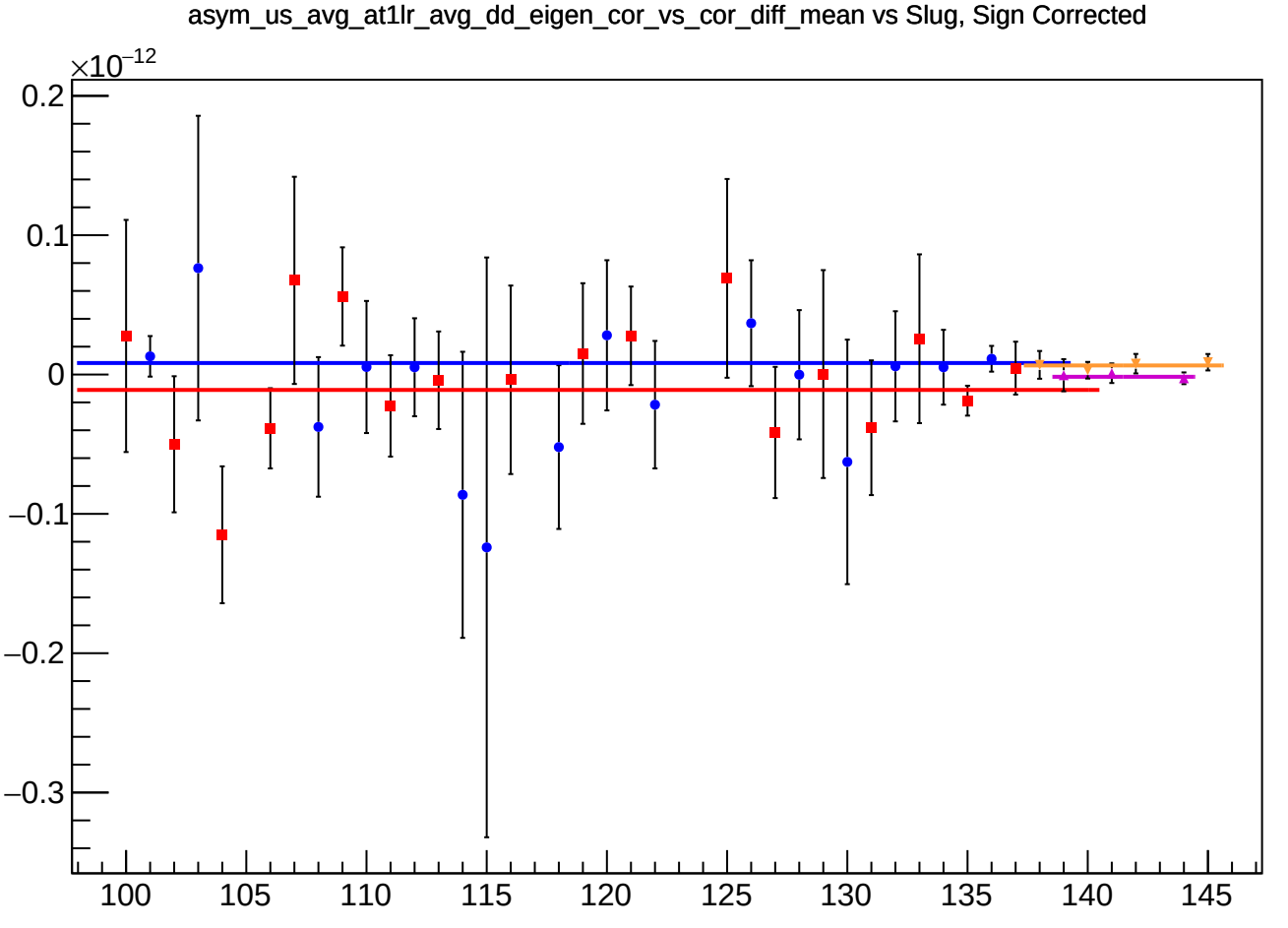
Left: 41.828+/-0.014 $\chi^2$/NDF: 66325.4/6

Right: 48.487+/-0.011 $\chi^2$/NDF: 4201863.1/33

In: 46.728+/-0.012 $\chi^2$/NDF:1880480.0/18

Out: 45.224+/-0.012 $\chi^2$/NDF:2528147.9/21

All: 45.978+/-0.008 $\chi^2$/NDF: 4416691.8/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.5/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.2/2

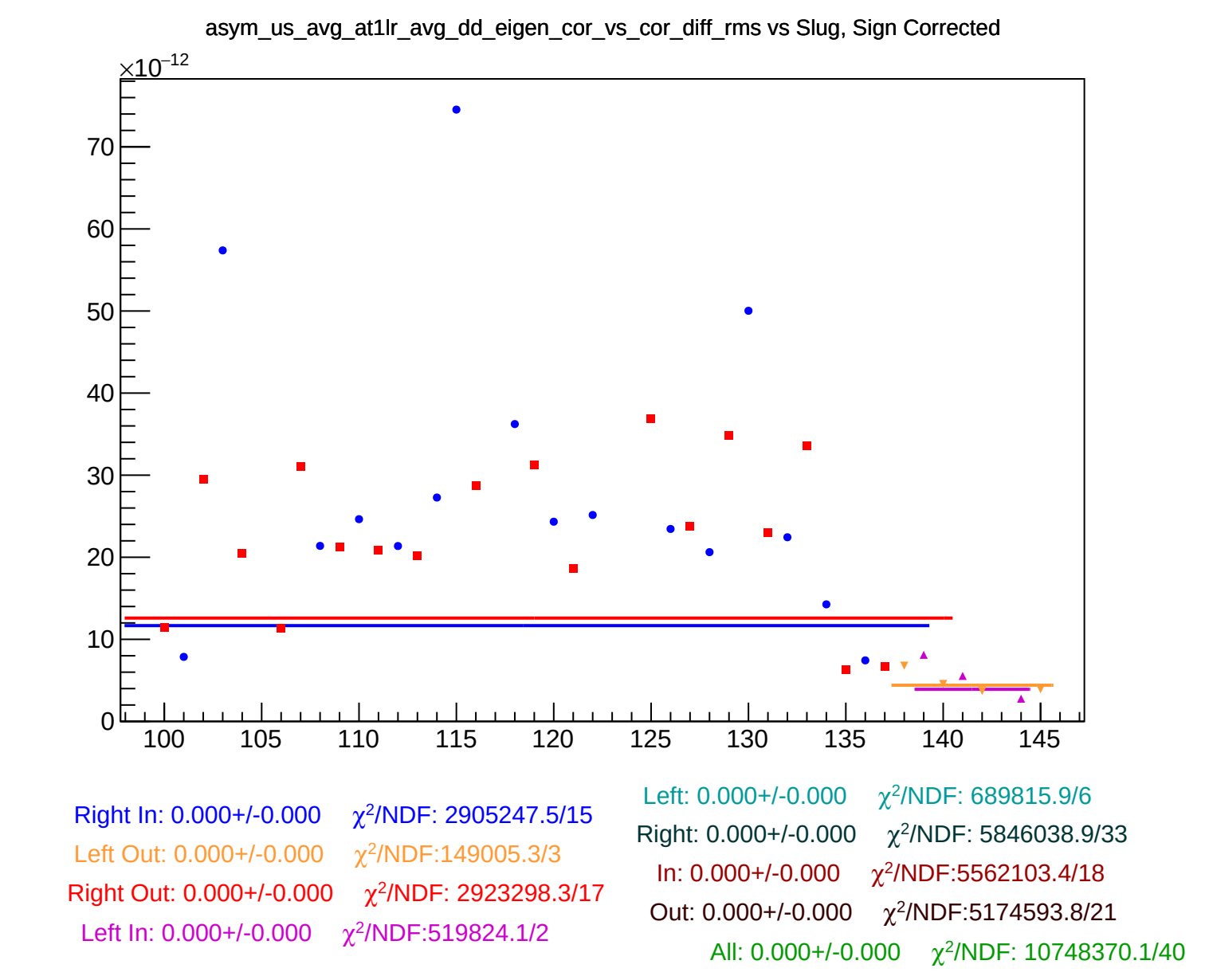
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.6/6

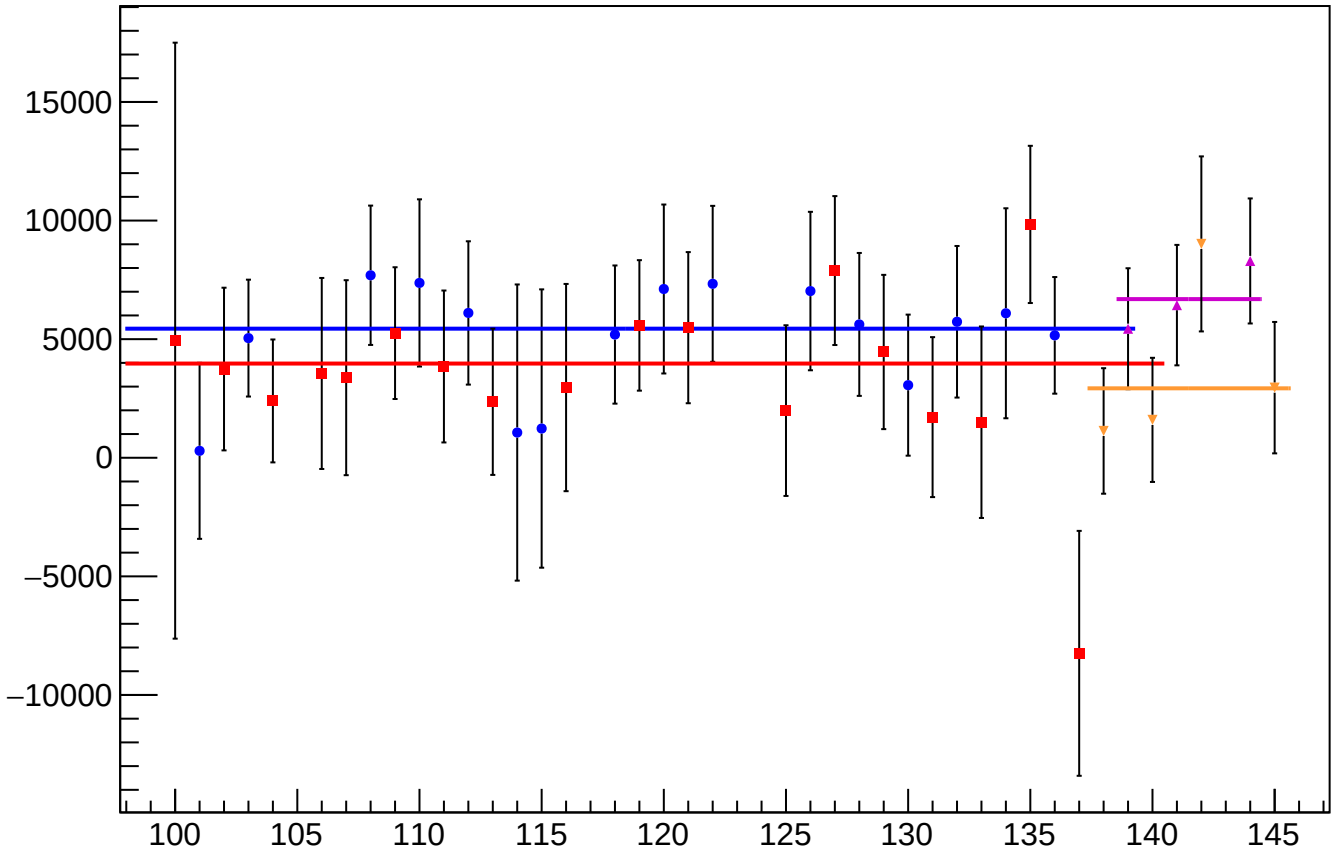
Right: -0.000+/-0.000 $\chi^2$/NDF: 25.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:7.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:21.6/21

All: 0.000+/-0.000 $\chi^2$/NDF: 29.4/40


asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2905247.5/15
Left Out: 0.000+/-0.000 χ²/NDF:149005.3/3
Right Out: 0.000+/-0.000 χ²/NDF: 2923298.3/17
Left In: 0.000+/-0.000 χ²/NDF:519824.1/2
Left: 0.000+/-0.000 χ²/NDF: 689815.9/6
Right: 0.000+/-0.000 χ²/NDF: 5846038.9/33
In: 0.000+/-0.000 χ²/NDF:5562103.4/18
Out: 0.000+/-0.000 χ²/NDF:5174593.8/21
All: 0.000+/-0.000 χ²/NDF: 10748370.1/40




Right In: 5442.336+/-812.534 $\chi^2$/NDF: 5.4/15

Left Out: 2927.242+/-1424.735 $\chi^2$/NDF:3.4/3

Right Out: 3971.728+/-809.023 $\chi^2$/NDF: 13.0/17

Left In: 6689.076+/-1485.910 $\chi^2$/NDF:0.6/2

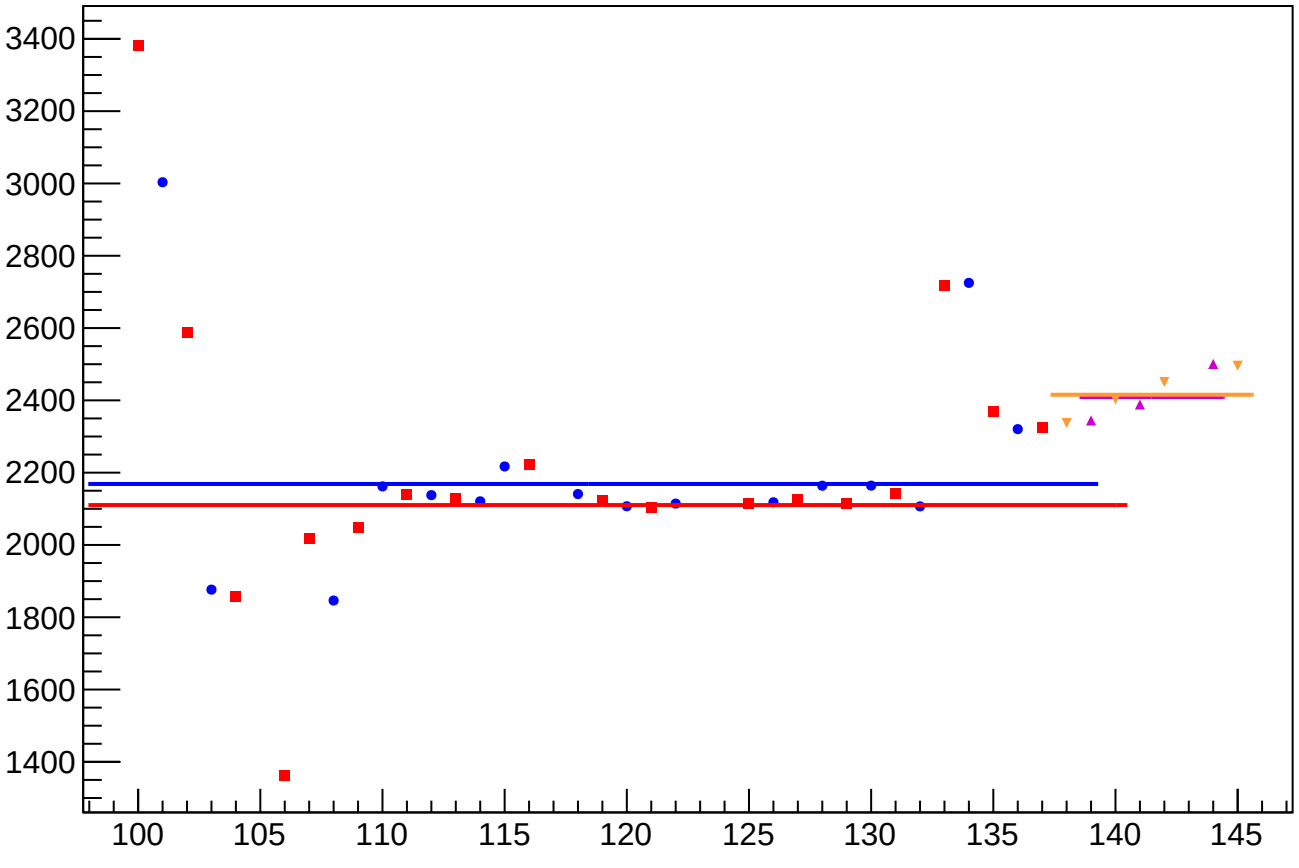
Left: 4729.129+/-1028.387 $\chi^2$/NDF: 7.4/6

Right: 4703.849+/-573.303 $\chi^2$/NDF: 20.0/33

In: 5729.320+/-712.908 $\chi^2$/NDF:6.5/18

Out: 3717.058+/-703.514 $\chi^2$/NDF:16.8/21

All: 4709.843+/-500.748 $\chi^2$/NDF: 27.4/40




Right In: 2168.715+/-0.575 $\chi^2$/NDF: 195659.5/15

Left Out: 2415.567+/-1.007 $\chi^2$/NDF:3650.2/3

Right Out: 2110.365+/-0.563 $\chi^2$/NDF: 267413.4/17

Left In: 2409.207+/-1.051 $\chi^2$/NDF:3839.9/2

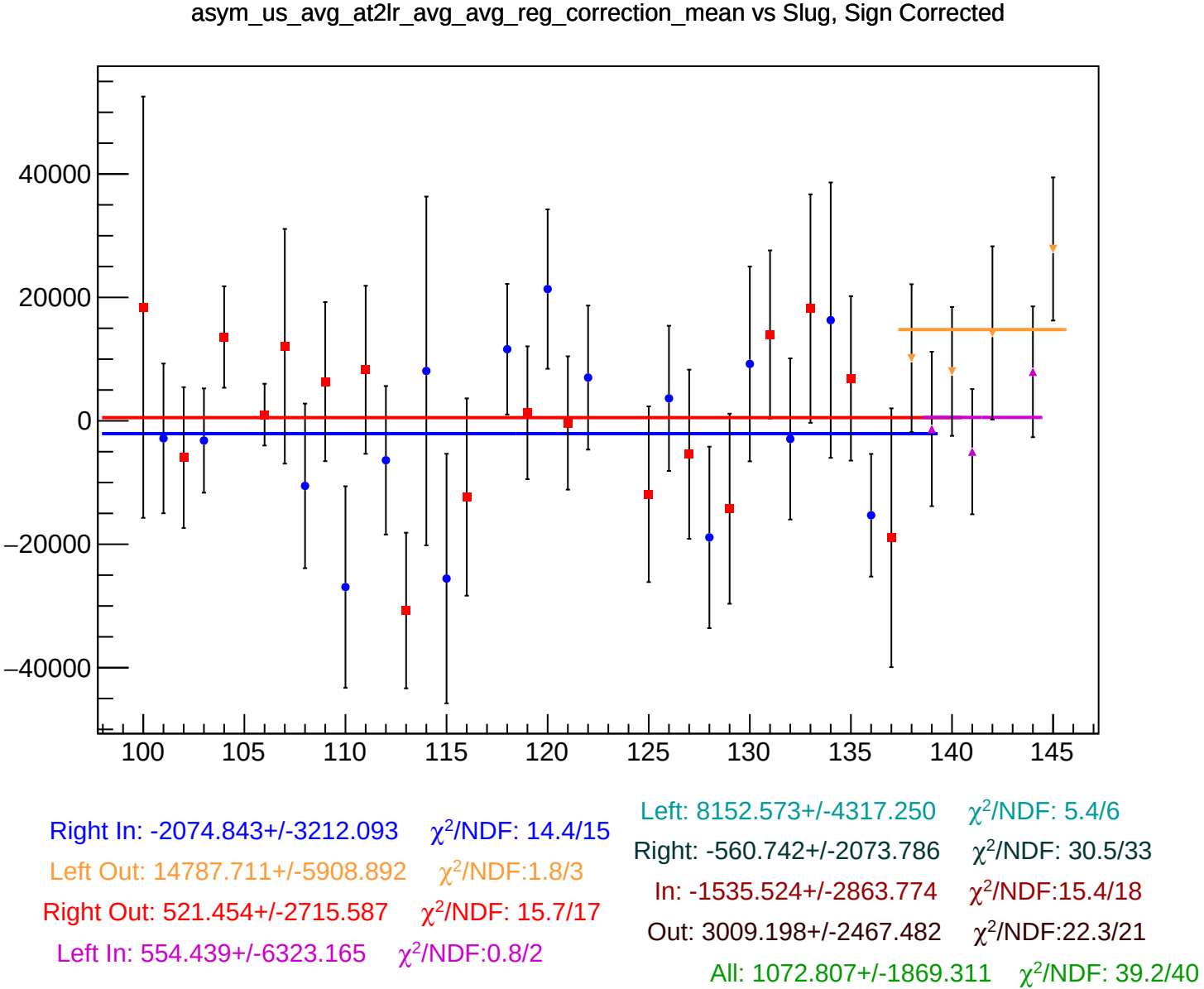
Left: 2412.520+/-0.727 $\chi^2$/NDF: 7509.2/6

Right: 2138.947+/-0.402 $\chi^2$/NDF: 468334.9/33

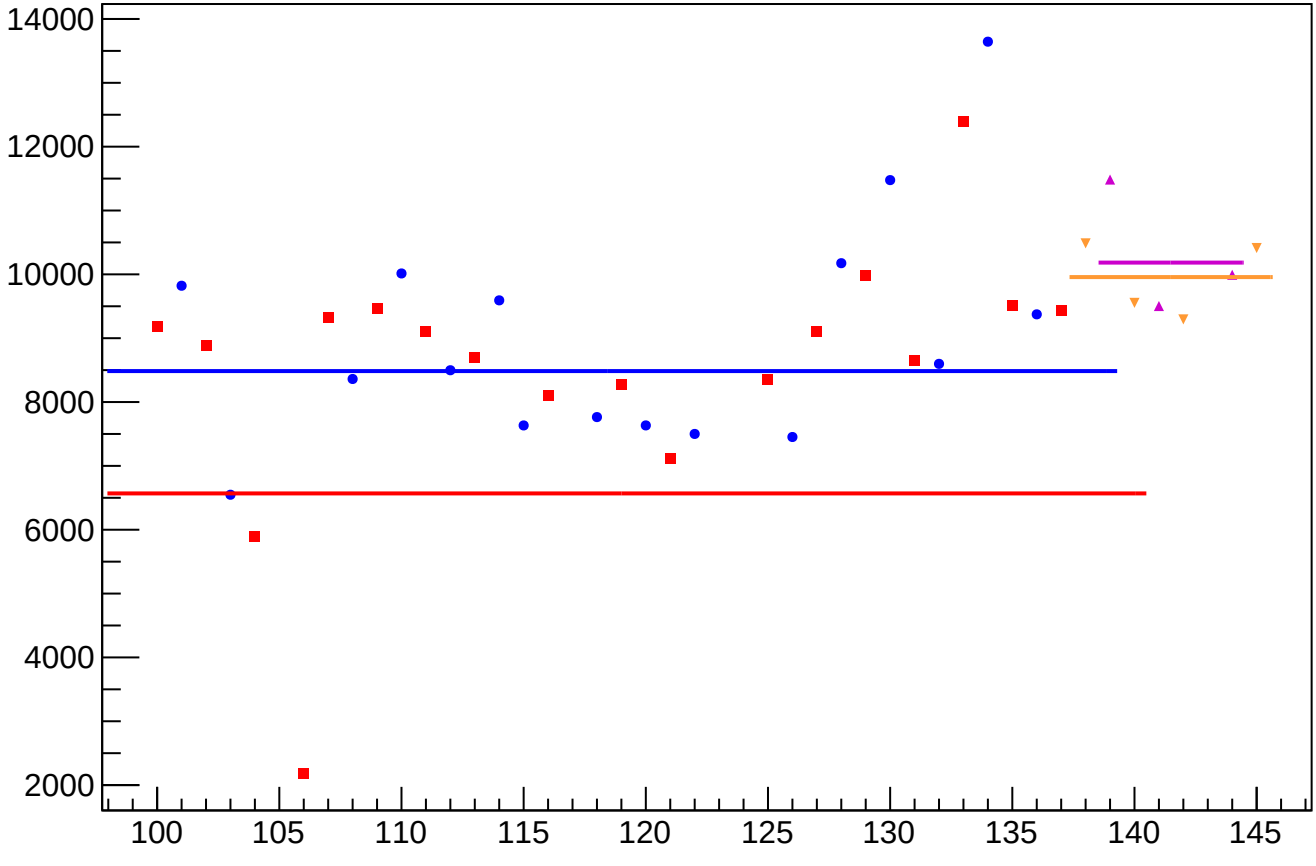
In: 2224.073+/-0.504 $\chi^2$/NDF:239829.3/18

Out: 2182.993+/-0.491 $\chi^2$/NDF:341001.0/21

All: 2203.011+/-0.352 $\chi^2$/NDF: 584235.1/40


asym_us_avg_at2lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected
40000
20000
0
−20000
−40000
100
105
110
115
120
125
130
135
140
145
Right In: -2074.843+/-3212.093 χ²/NDF: 14.4/15
Left Out: 14787.711+/-5908.892 χ²/NDF:1.8/3
Right Out: 521.454+/-2715.587 χ²/NDF: 15.7/17
Left In: 554.439+/-6323.165 χ²/NDF:0.8/2
Left: 8152.573+/-4317.250 χ²/NDF: 5.4/6
Right: -560.742+/-2073.786 χ²/NDF: 30.5/33
In: -1535.524+/-2863.774 χ²/NDF:15.4/18
Out: 3009.198+/-2467.482 χ²/NDF:22.3/21
All: 1072.807+/-1869.311 χ²/NDF: 39.2/40

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: 9957.164+/-4.178 $\chi^2$/NDF:14415.7/3

Right Out: 6568.711+/-1.920 $\chi^2$/NDF: 2568887.0/17

Left In: 10184.094+/-4.471 $\chi^2$/NDF:31251.0/2

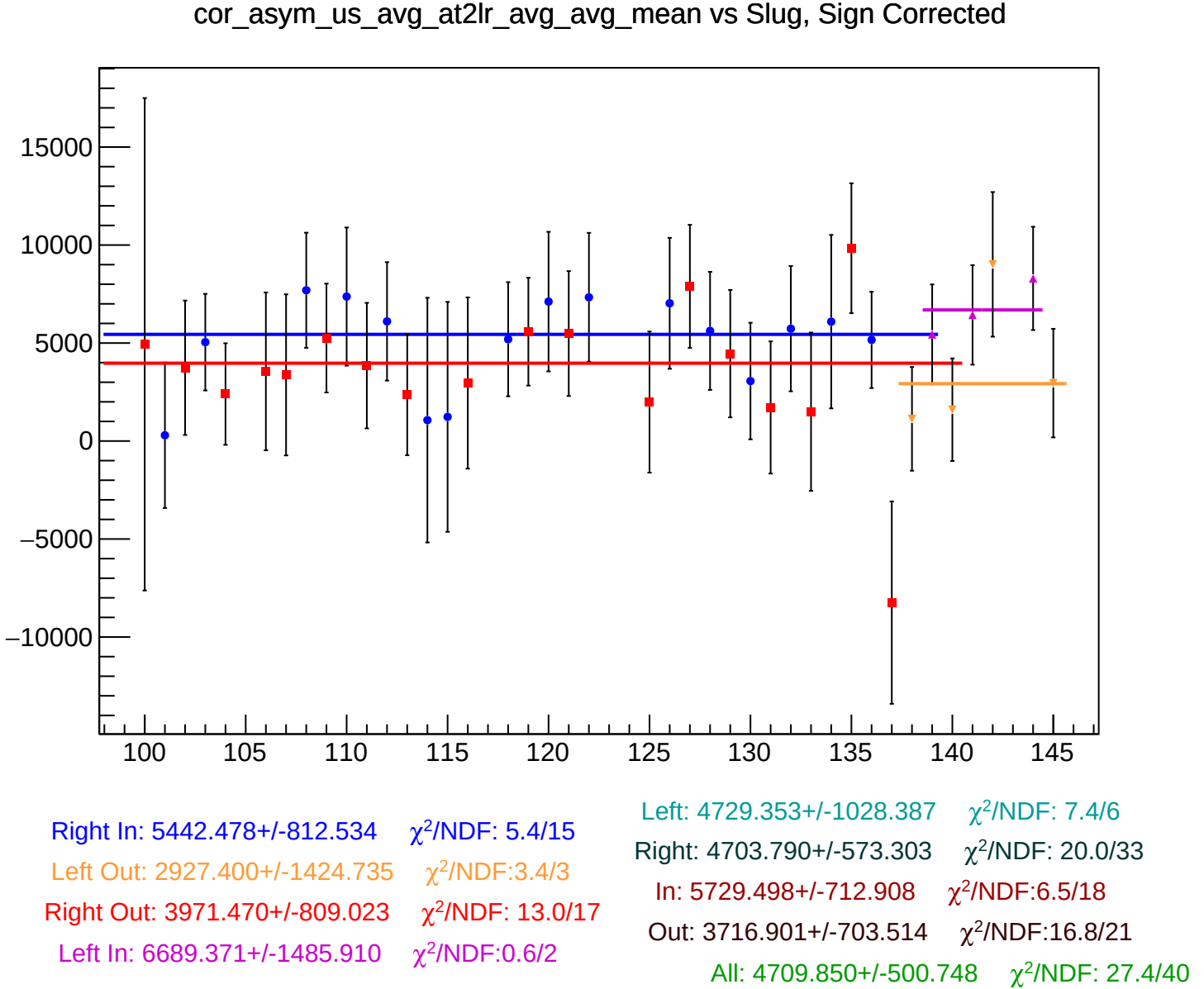
Left: 10062.952+/-3.053 $\chi^2$/NDF: 47041.9/6

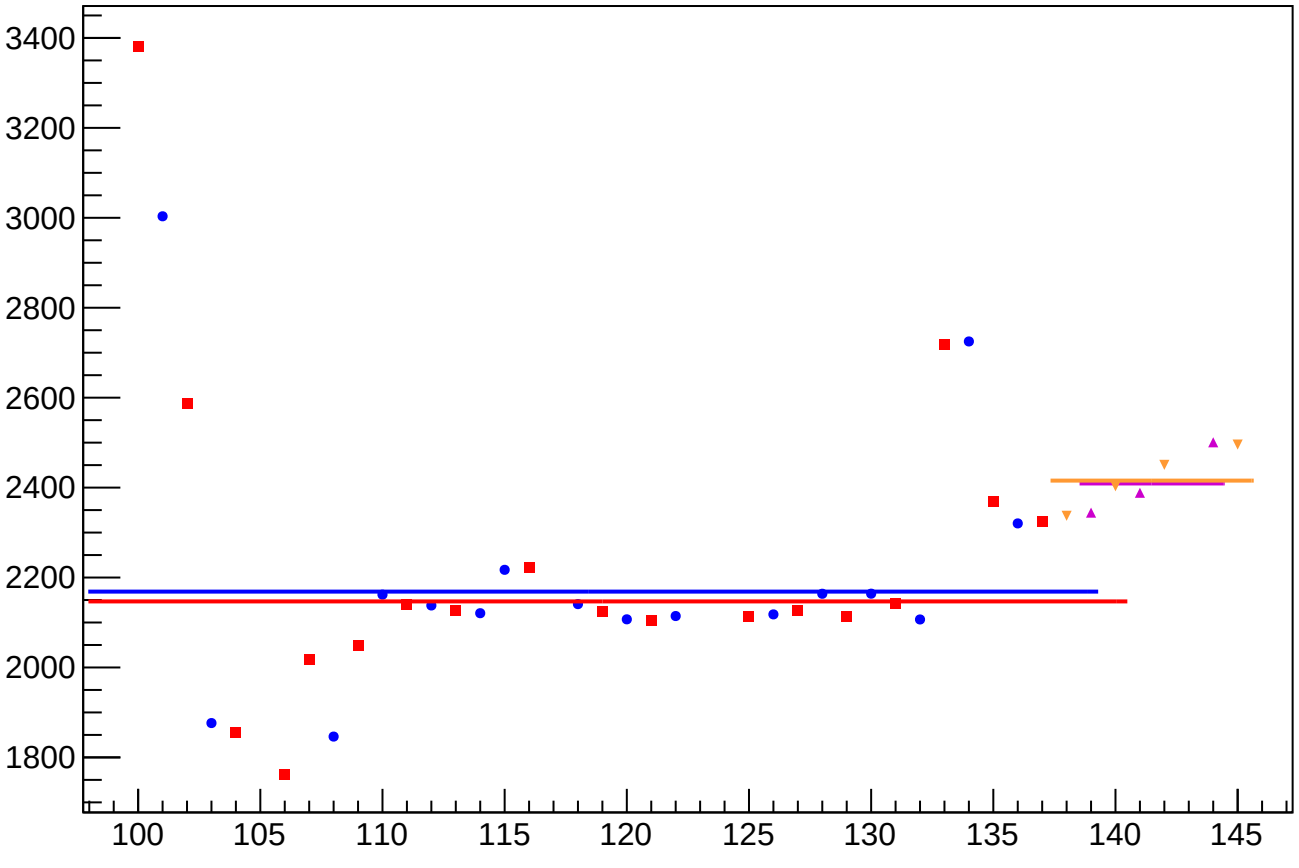
Right: 7367.464+/-1.466 $\chi^2$/NDF: 3406715.7/33

In: 8833.518+/-2.025 $\chi^2$/NDF:568745.3/18

Out: 7159.588+/-1.745 $\chi^2$/NDF:3126304.6/21

All: 7872.807+/-1.322 $\chi^2$/NDF: 4087227.5/40


cor_asym_us_avg_at2lr_avg_avg_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: 5442.478+/-812.534 χ²/NDF: 5.4/15
Left Out: 2927.400+/-1424.735 χ²/NDF:3.4/3
Right Out: 3971.470+/-809.023 χ²/NDF: 13.0/17
Left In: 6689.371+/-1485.910 χ²/NDF:0.6/2
Left: 4729.353+/-1028.387 χ²/NDF: 7.4/6
Right: 4703.790+/-573.303 χ²/NDF: 20.0/33
In: 5729.498+/-712.908 χ²/NDF:6.5/18
Out: 3716.901+/-703.514 χ²/NDF:16.8/21
All: 4709.850+/-500.748 χ²/NDF: 27.4/40




Right In: 2168.715+/-0.575 $\chi^2$/NDF: 195659.8/15

Left Out: 2415.567+/-1.007 $\chi^2$/NDF:3650.2/3

Right Out: 2146.888+/-0.569 $\chi^2$/NDF: 157750.7/17

Left In: 2409.207+/-1.051 $\chi^2$/NDF:3839.9/2

Left: 2412.520+/-0.727 $\chi^2$/NDF: 7509.2/6

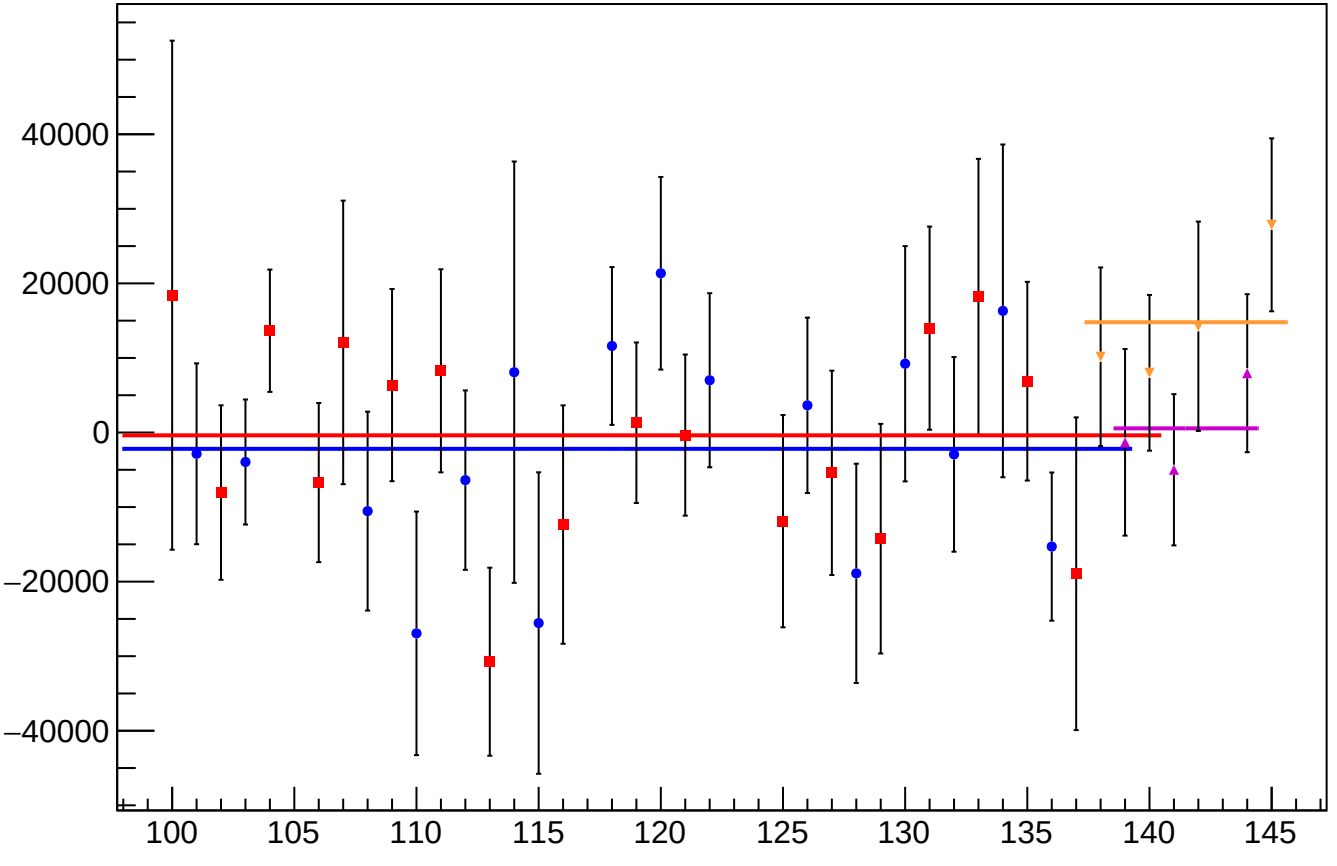
Right: 2157.700+/-0.404 $\chi^2$/NDF: 354138.9/33

In: 2224.073+/-0.504 $\chi^2$/NDF:239829.7/18

Out: 2211.906+/-0.496 $\chi^2$/NDF:215315.0/21

All: 2217.886+/-0.353 $\chi^2$/NDF: 455441.0/40

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: 14787.806+/-5908.882 $\chi^2$/NDF:1.8/3

Right Out: -379.236+/-3099.953 $\chi^2$/NDF: 16.3/17

Left In: 554.519+/-6323.159 $\chi^2$/NDF:0.8/2

Left: 8152.665+/-4317.244 $\chi^2$/NDF: 5.4/6

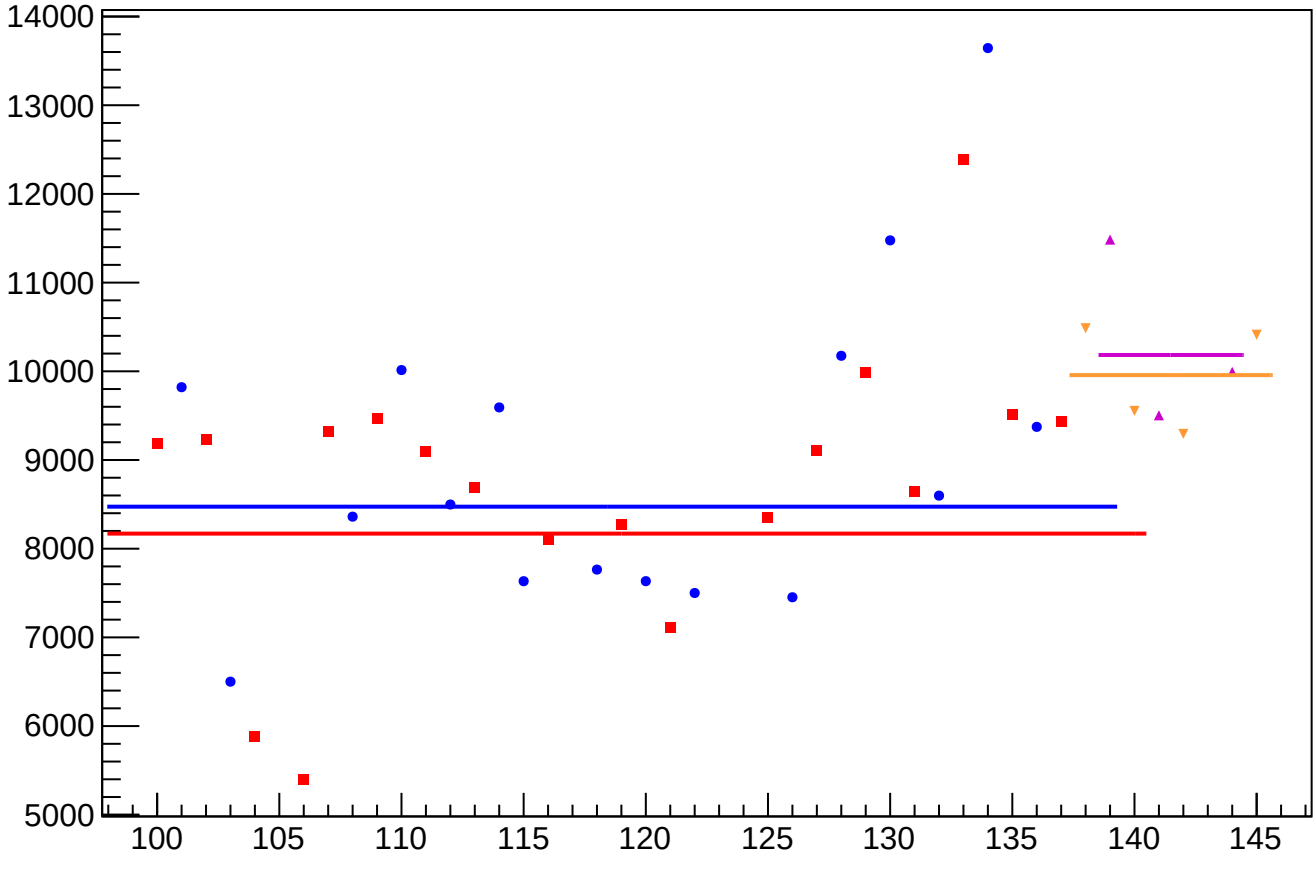
Right: -1253.105+/-2229.393 $\chi^2$/NDF: 30.9/33

In: -1627.446+/-2861.244 $\chi^2$/NDF:15.4/18

Out: 2894.254+/-2745.115 $\chi^2$/NDF:23.3/21

All: 727.026+/-1980.872 $\chi^2$/NDF: 40.0/40

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 8473.743+/-2.269 $\chi^2$/NDF: 429547.3/15

Left Out: 9957.147+/-4.178 $\chi^2$/NDF:14416.0/3

Right Out: 8170.027+/-2.192 $\chi^2$/NDF: 539925.8/17

Left In: 10184.082+/-4.471 $\chi^2$/NDF:31251.5/2

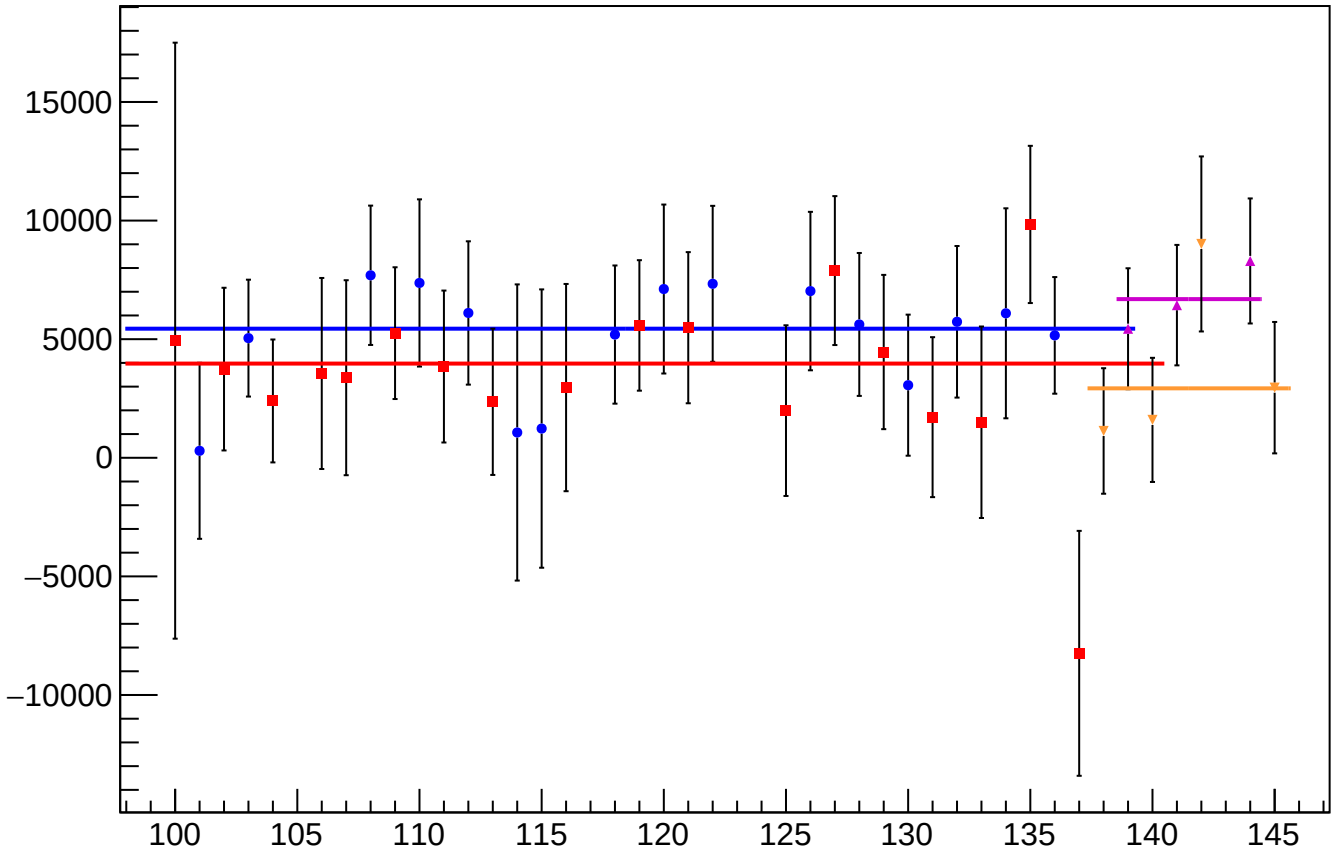
Left: 10062.937+/-3.053 $\chi^2$/NDF: 47042.7/6

Right: 8316.660+/-1.576 $\chi^2$/NDF: 978741.7/33

In: 8823.949+/-2.023 $\chi^2$/NDF:577164.6/18

Out: 8555.740+/-1.941 $\chi^2$/NDF:697803.9/21

All: 8684.291+/-1.401 $\chi^2$/NDF: 1284119.3/40




Right In: 5442.478+/-812.534 $\chi^2$/NDF: 5.4/15

Left Out: 2927.400+/-1424.735 $\chi^2$/NDF:3.4/3

Right Out: 3971.470+/-809.023 $\chi^2$/NDF: 13.0/17

Left In: 6689.371+/-1485.910 $\chi^2$/NDF:0.6/2

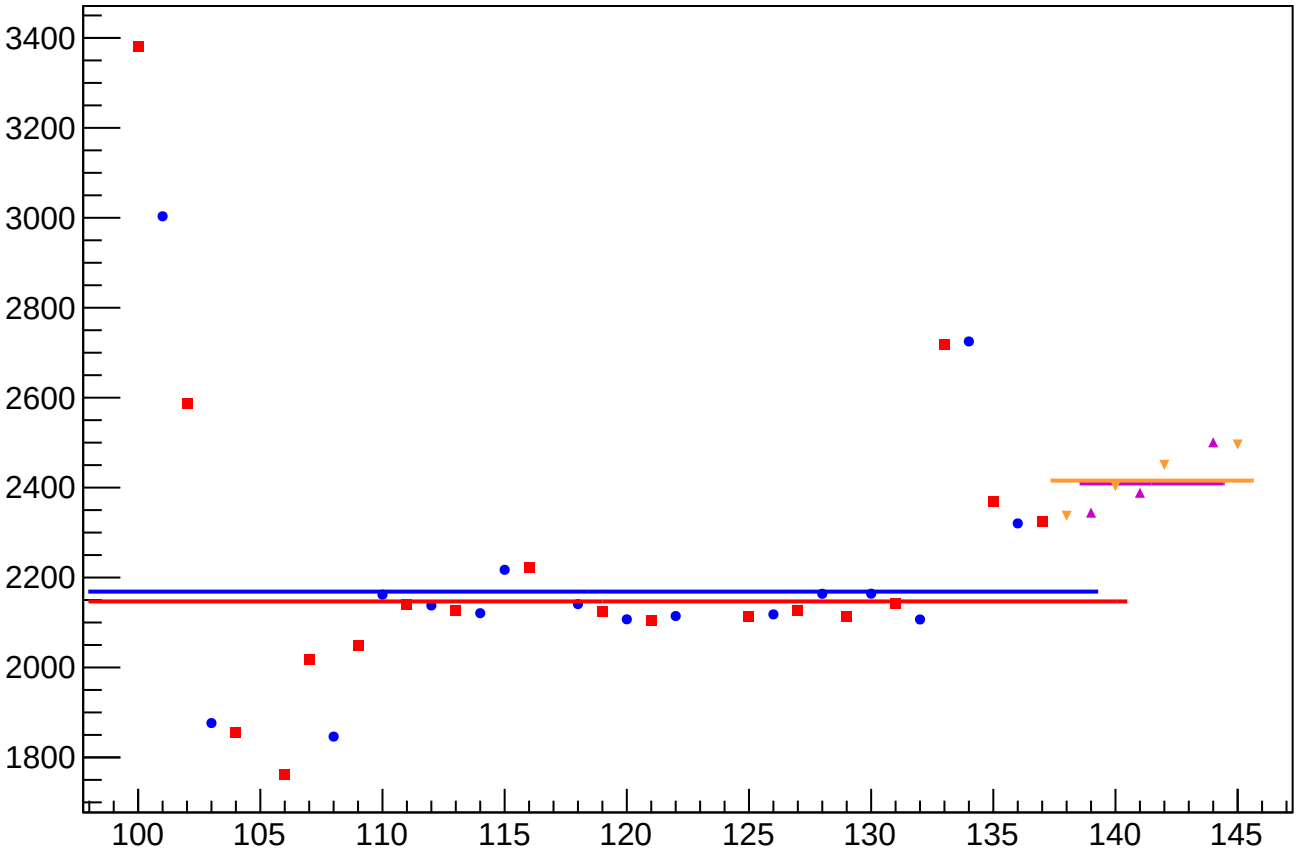
Left: 4729.353+/-1028.387 $\chi^2$/NDF: 7.4/6

Right: 4703.790+/-573.303 $\chi^2$/NDF: 20.0/33

In: 5729.498+/-712.908 $\chi^2$/NDF:6.5/18

Out: 3716.901+/-703.514 $\chi^2$/NDF:16.8/21

All: 4709.850+/-500.748 $\chi^2$/NDF: 27.4/40




Right In: 2168.715+/-0.575 $\chi^2$/NDF: 195659.8/15

Left Out: 2415.567+/-1.007 $\chi^2$/NDF:3650.2/3

Right Out: 2146.888+/-0.569 $\chi^2$/NDF: 157750.7/17

Left In: 2409.207+/-1.051 $\chi^2$/NDF:3839.9/2

Left: 2412.520+/-0.727 $\chi^2$/NDF: 7509.2/6

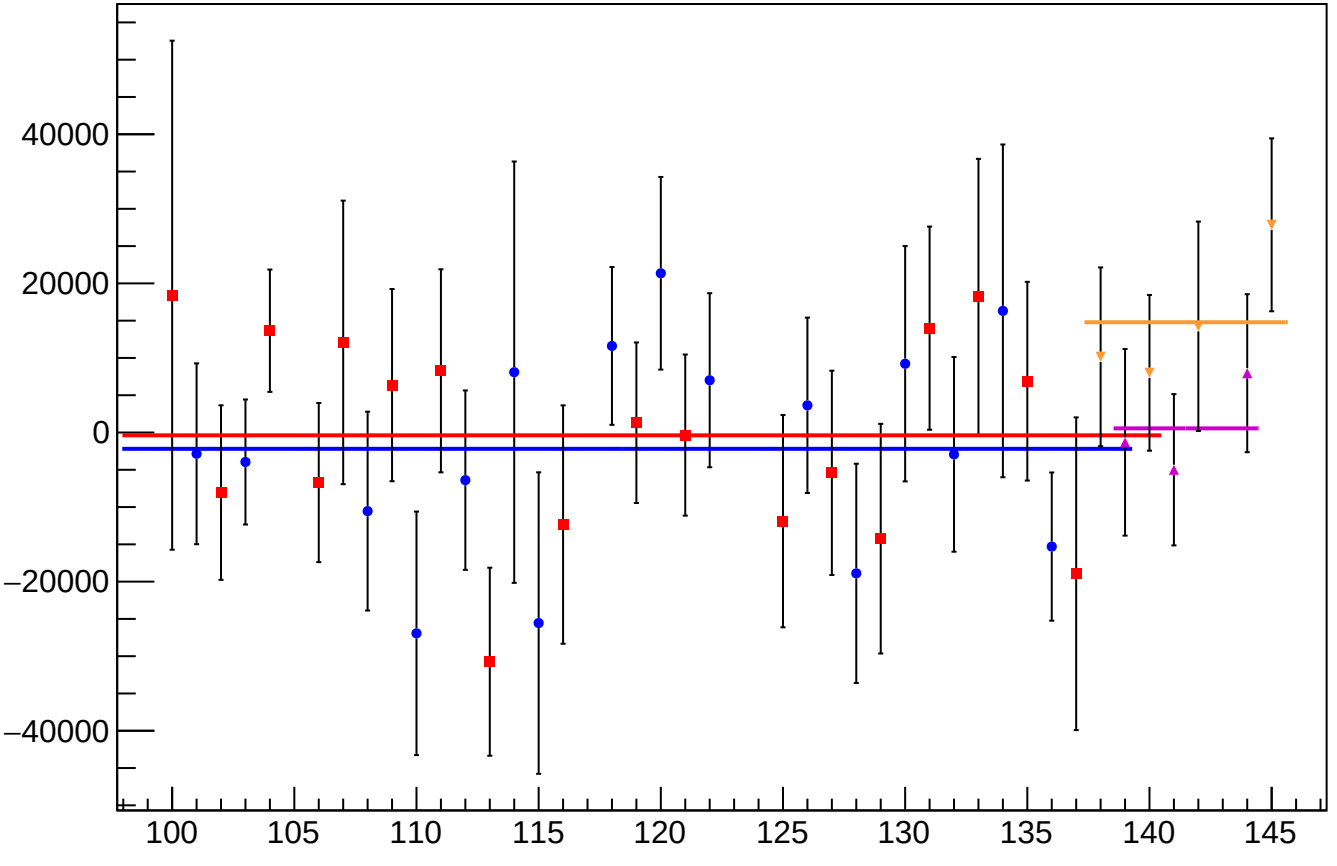
Right: 2157.700+/-0.404 $\chi^2$/NDF: 354138.9/33

In: 2224.073+/-0.504 $\chi^2$/NDF:239829.7/18

Out: 2211.906+/-0.496 $\chi^2$/NDF:215315.0/21

All: 2217.886+/-0.353 $\chi^2$/NDF: 455441.0/40

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -2189.256+/-3208.524 $\chi^2$/NDF: 14.5/15

Left Out: 14787.806+/-5908.882 $\chi^2$/NDF:1.8/3

Right Out: -379.236+/-3099.953 $\chi^2$/NDF: 16.3/17

Left In: 554.519+/-6323.159 $\chi^2$/NDF:0.8/2

Left: 8152.665+/-4317.244 $\chi^2$/NDF: 5.4/6

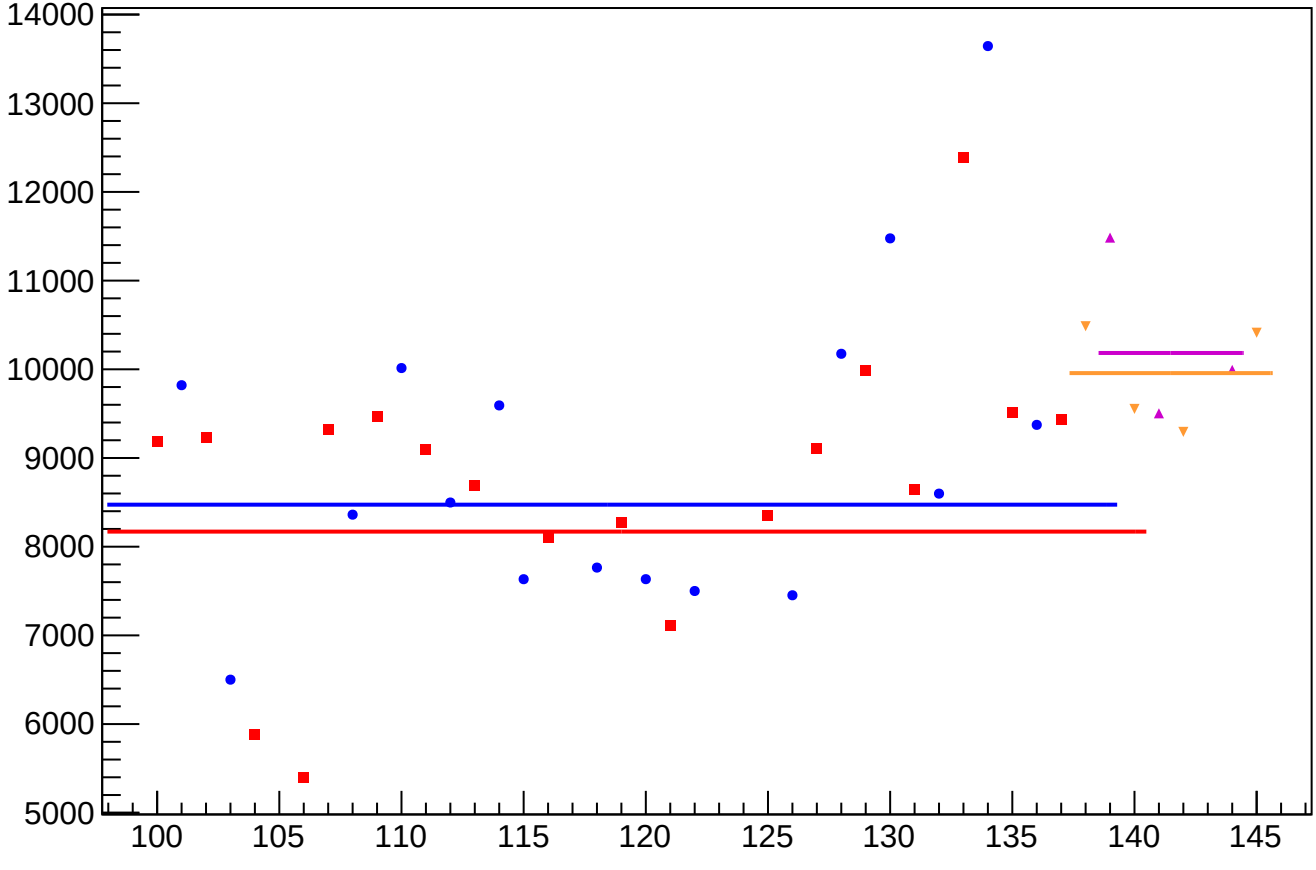
Right: -1253.105+/-2229.393 $\chi^2$/NDF: 30.9/33

In: -1627.446+/-2861.244 $\chi^2$/NDF:15.4/18

Out: 2894.254+/-2745.115 $\chi^2$/NDF:23.3/21

All: 727.026+/-1980.872 $\chi^2$/NDF: 40.0/40

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 8473.743+/-2.269 $\chi^2$/NDF: 429547.3/15

Left Out: 9957.147+/-4.178 $\chi^2$/NDF:14416.0/3

Right Out: 8170.027+/-2.192 $\chi^2$/NDF: 539925.8/17

Left In: 10184.082+/-4.471 $\chi^2$/NDF:31251.5/2

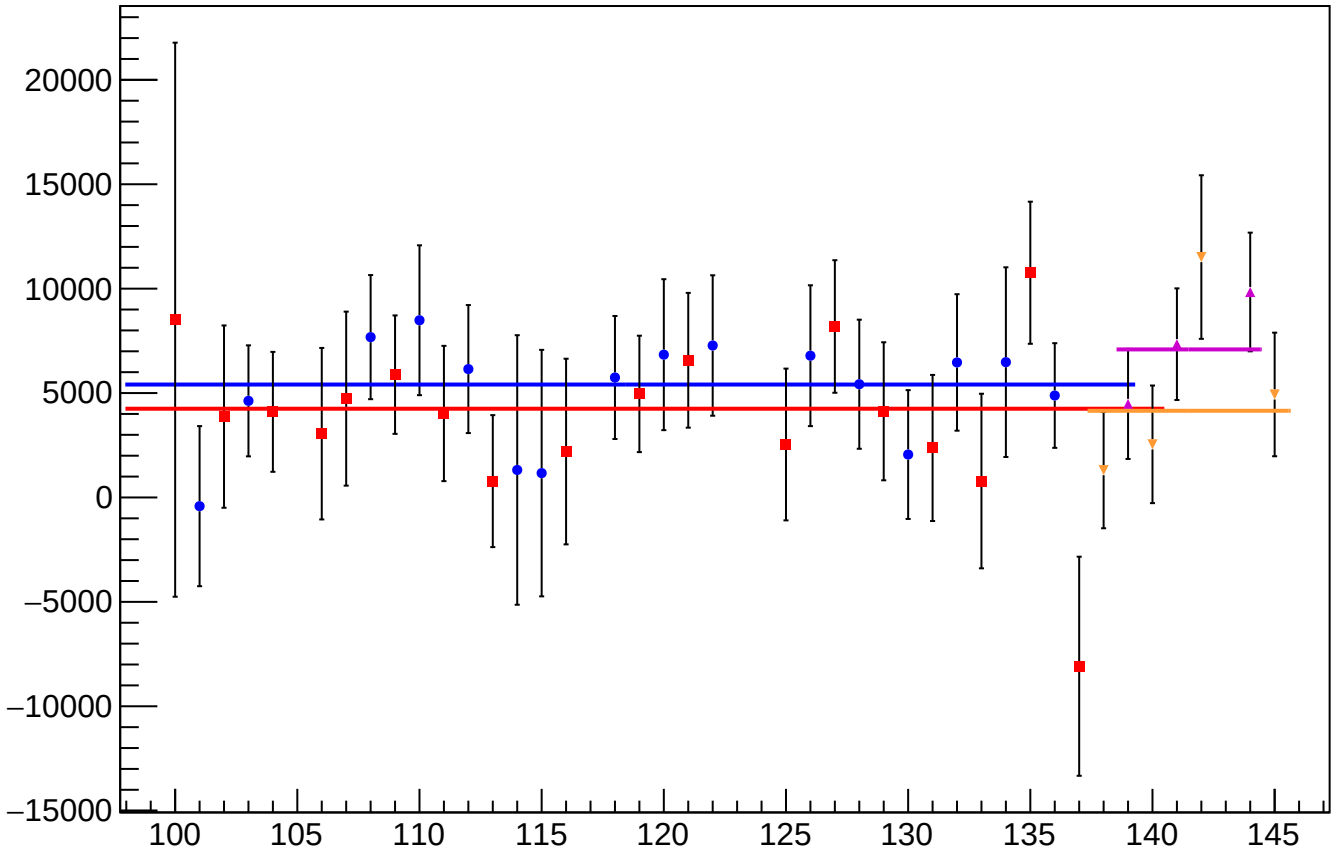
Left: 10062.937+/-3.053 $\chi^2$/NDF: 47042.7/6

Right: 8316.660+/-1.576 $\chi^2$/NDF: 978741.7/33

In: 8823.949+/-2.023 $\chi^2$/NDF:577164.6/18

Out: 8555.740+/-1.941 $\chi^2$/NDF:697803.9/21

All: 8684.291+/-1.401 $\chi^2$/NDF: 1284119.3/40




Right In: 5407.867+/-833.689 $\chi^2$/NDF: 6.7/15

Left Out: 4151.187+/-1517.285 $\chi^2$/NDF:5.0/3

Right Out: 4249.899+/-839.336 $\chi^2$/NDF: 14.5/17

Left In: 7089.692+/-1566.182 $\chi^2$/NDF:1.9/2

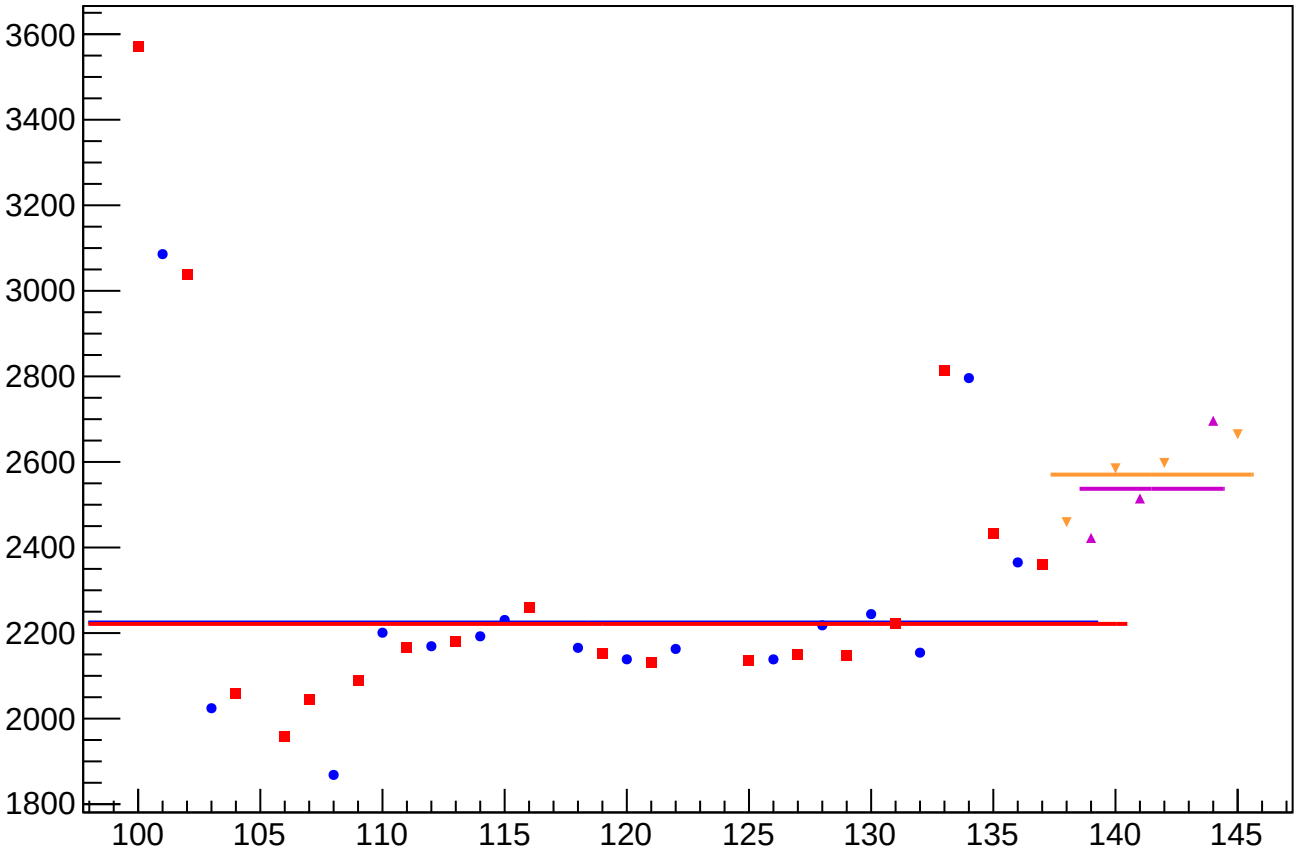
Left: 5573.854+/-1089.759 $\chi^2$/NDF: 8.7/6

Right: 4832.791+/-591.493 $\chi^2$/NDF: 22.2/33

In: 5779.197+/-735.921 $\chi^2$/NDF:9.5/18

Out: 4226.770+/-734.450 $\chi^2$/NDF:19.4/21

All: 5001.430+/-519.854 $\chi^2$/NDF: 31.2/40




Right In: 2224.614+/-0.590 $\chi^2$/NDF: 184679.8/15

Left Out: 2570.433+/-1.073 $\chi^2$/NDF:5370.7/3

Right Out: 2221.425+/-0.593 $\chi^2$/NDF: 169944.3/17

Left In: 2537.278+/-1.107 $\chi^2$/NDF:10204.4/2

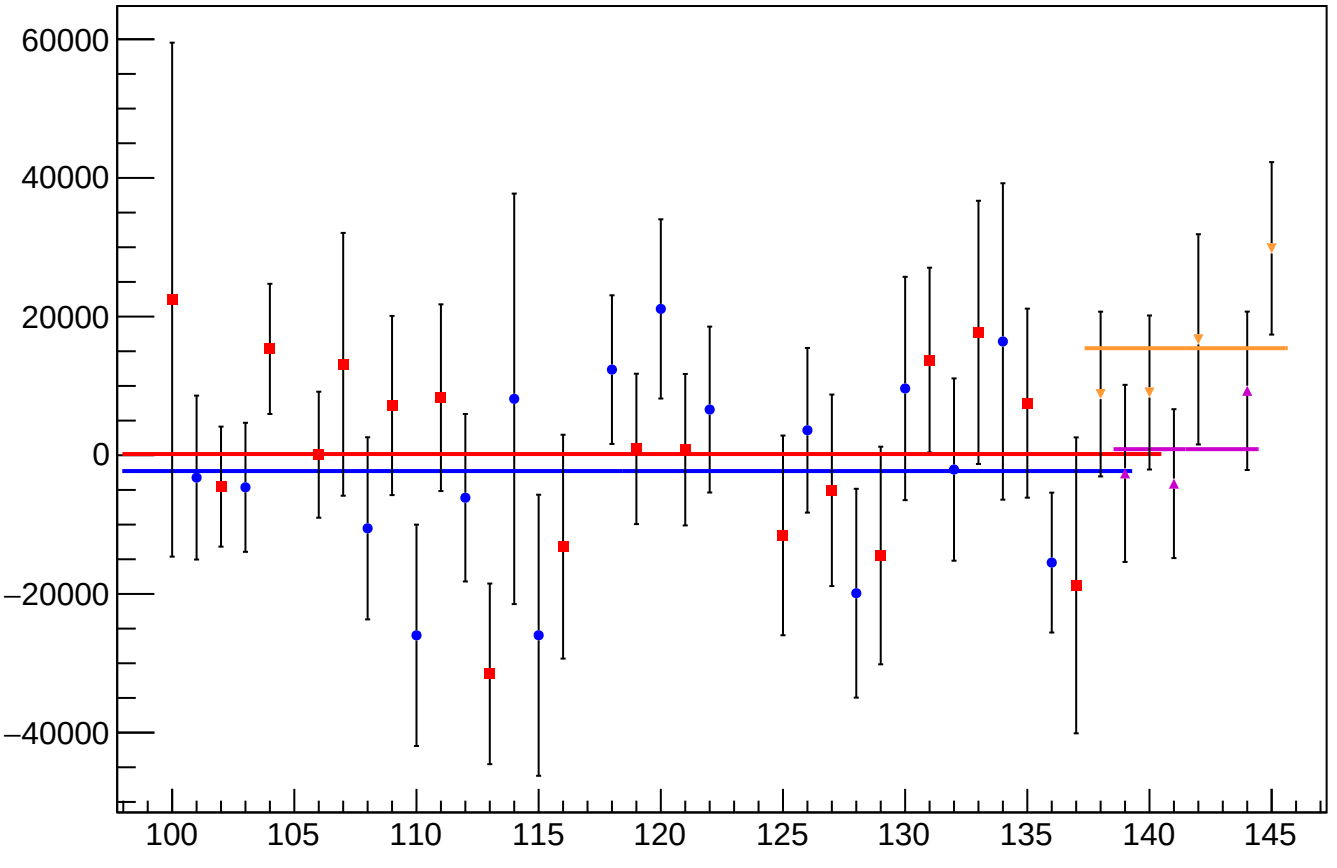
Left: 2554.381+/-0.771 $\chi^2$/NDF: 16037.5/6

Right: 2223.029+/-0.418 $\chi^2$/NDF: 354638.7/33

In: 2293.647+/-0.520 $\chi^2$/NDF:256993.4/18

Out: 2303.124+/-0.519 $\chi^2$/NDF:256363.4/21

All: 2298.397+/-0.368 $\chi^2$/NDF: 513523.1/40




Right In: -2278.440+/-3271.750 $\chi^2$/NDF: 14.5/15

Left Out: 15441.501+/-6201.473 $\chi^2$/NDF:2.0/3

Right Out: 177.024+/-3035.355 $\chi^2$/NDF: 15.6/17

Left In: 879.098+/-6670.731 $\chi^2$/NDF:0.8/2

Left: 8690.469+/-4541.946 $\chi^2$/NDF: 5.4/6

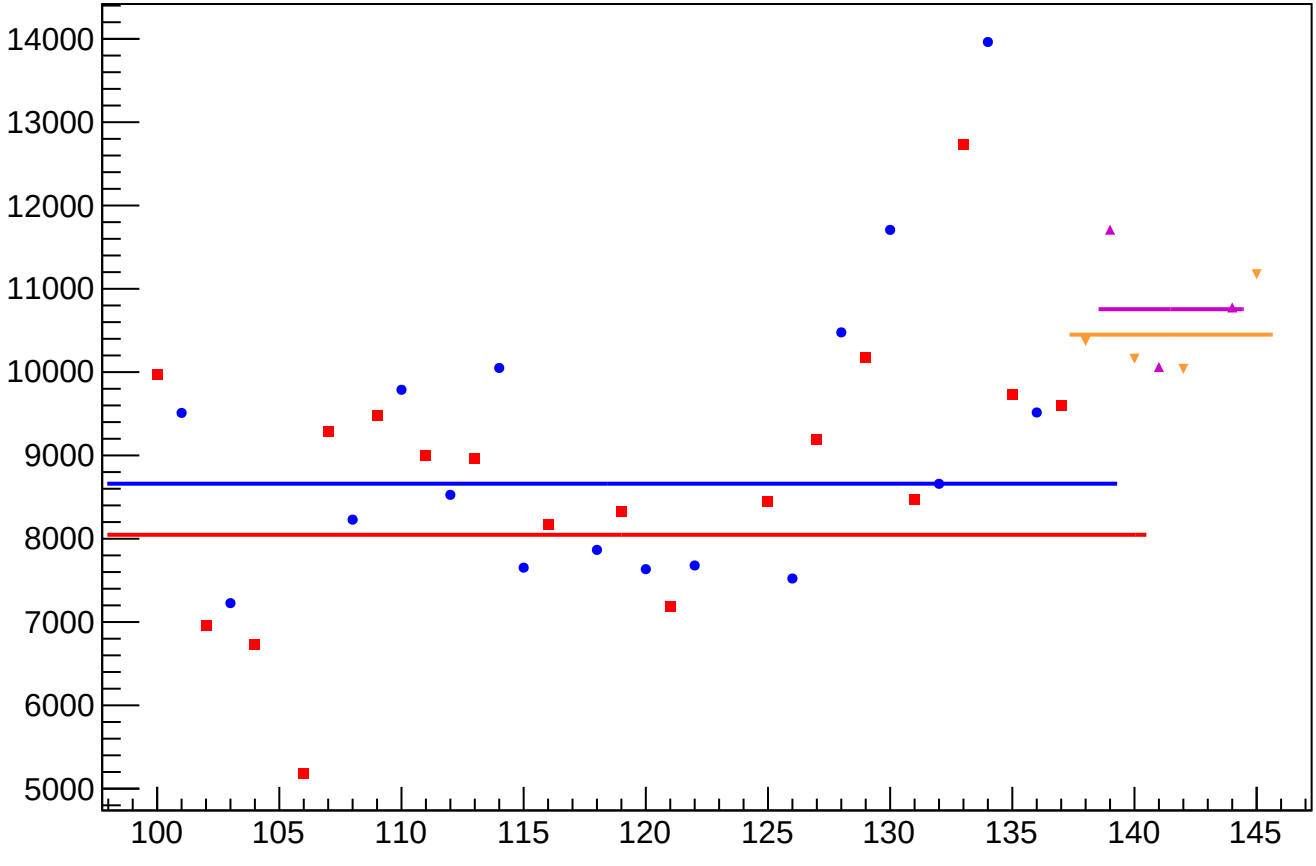
Right: -958.805+/-2225.203 $\chi^2$/NDF: 30.4/33

In: -1666.166+/-2937.461 $\chi^2$/NDF:15.5/18

Out: 3127.151+/-2726.304 $\chi^2$/NDF:22.5/21

All: 908.950+/-1998.272 $\chi^2$/NDF: 39.5/40

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 8660.733+/-2.313 $\chi^2$/NDF: 357961.9/15

Left Out: 10450.109+/-4.385 $\chi^2$/NDF:9701.1/3

Right Out: 8047.460+/-2.146 $\chi^2$/NDF: 558559.6/17

Left In: 10755.255+/-4.717 $\chi^2$/NDF:19537.7/2

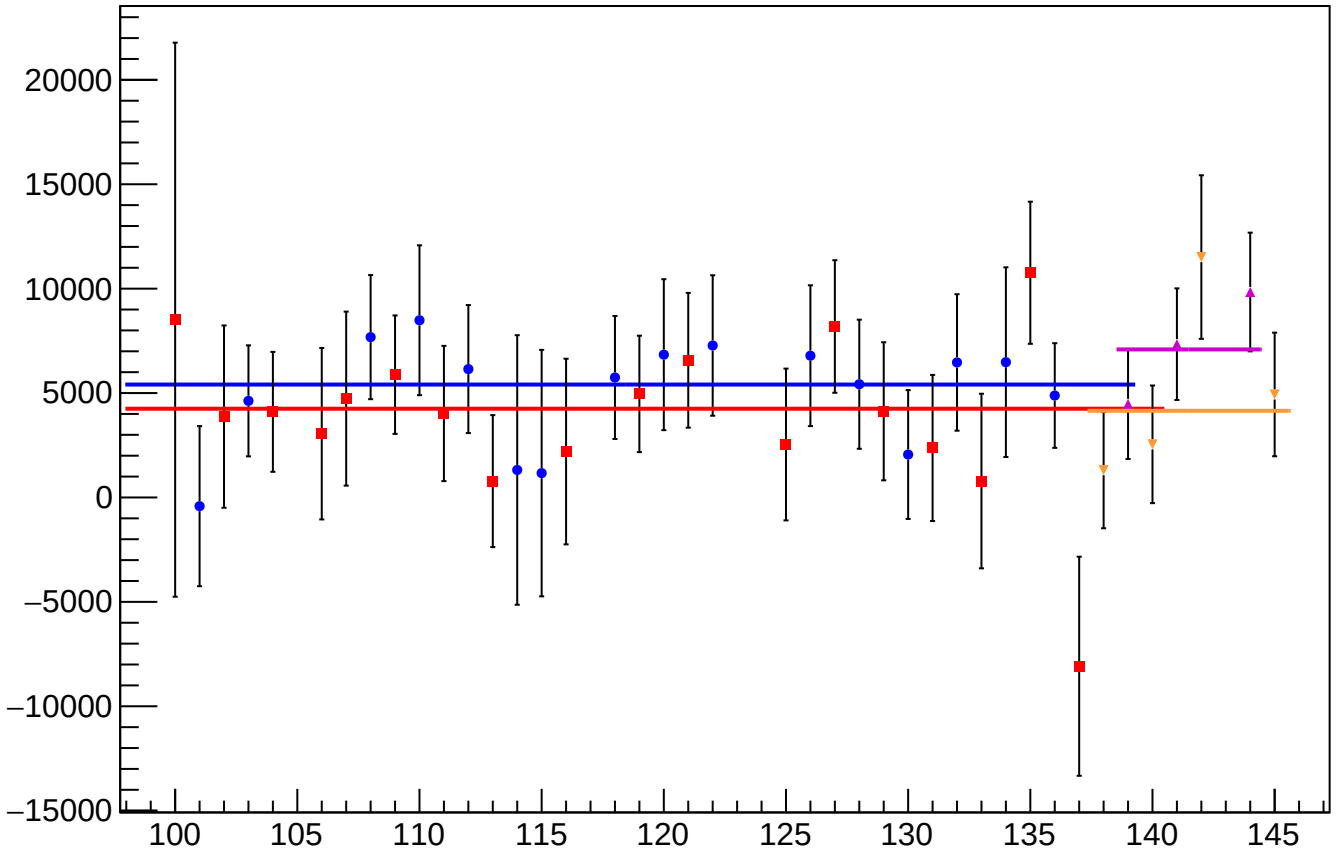
Left: 10591.573+/-3.212 $\chi^2$/NDF: 31483.8/6

Right: 8331.143+/-1.573 $\chi^2$/NDF: 954287.2/33

In: 9066.879+/-2.077 $\chi^2$/NDF:536441.3/18

Out: 8511.814+/-1.928 $\chi^2$/NDF:810447.6/21

All: 8768.681+/-1.413 $\chi^2$/NDF: 1385253.7/40




Right In: 5407.869+/-833.688 $\chi^2$/NDF: 6.7/15

Left Out: 4151.221+/-1517.287 $\chi^2$/NDF:5.0/3

Right Out: 4249.903+/-839.335 $\chi^2$/NDF: 14.5/17

Left In: 7089.678+/-1566.184 $\chi^2$/NDF:1.9/2

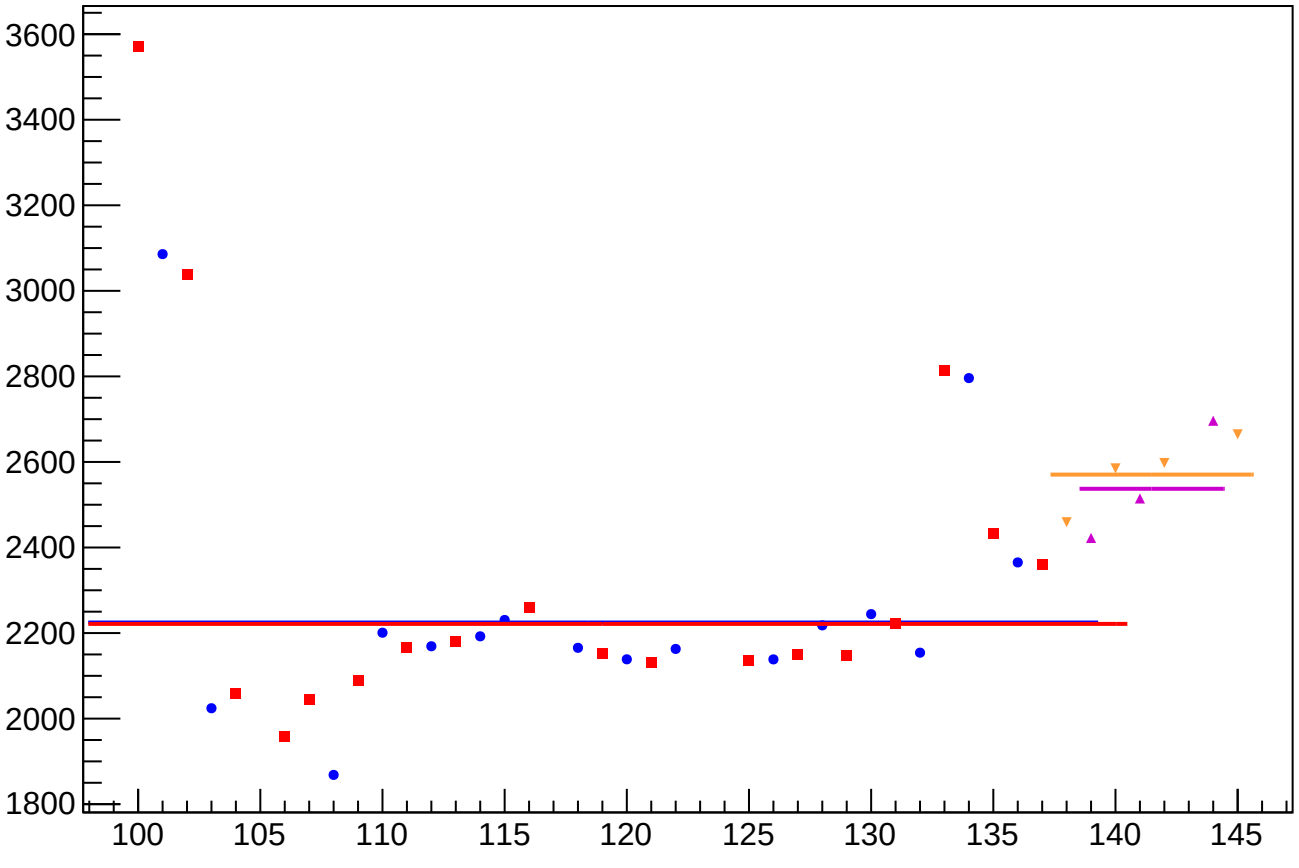
Left: 5573.864+/-1089.761 $\chi^2$/NDF: 8.7/6

Right: 4832.794+/-591.493 $\chi^2$/NDF: 22.2/33

In: 5779.193+/-735.921 $\chi^2$/NDF:9.5/18

Out: 4226.781+/-734.450 $\chi^2$/NDF:19.4/21

All: 5001.434+/-519.854 $\chi^2$/NDF: 31.2/40




Right In: 2224.613+/-0.590 $\chi^2$/NDF: 184680.1/15

Left Out: 2570.436+/-1.073 $\chi^2$/NDF:5371.0/3

Right Out: 2221.425+/-0.593 $\chi^2$/NDF: 169944.3/17

Left In: 2537.281+/-1.107 $\chi^2$/NDF:10204.6/2

Left: 2554.384+/-0.771 $\chi^2$/NDF: 16037.9/6

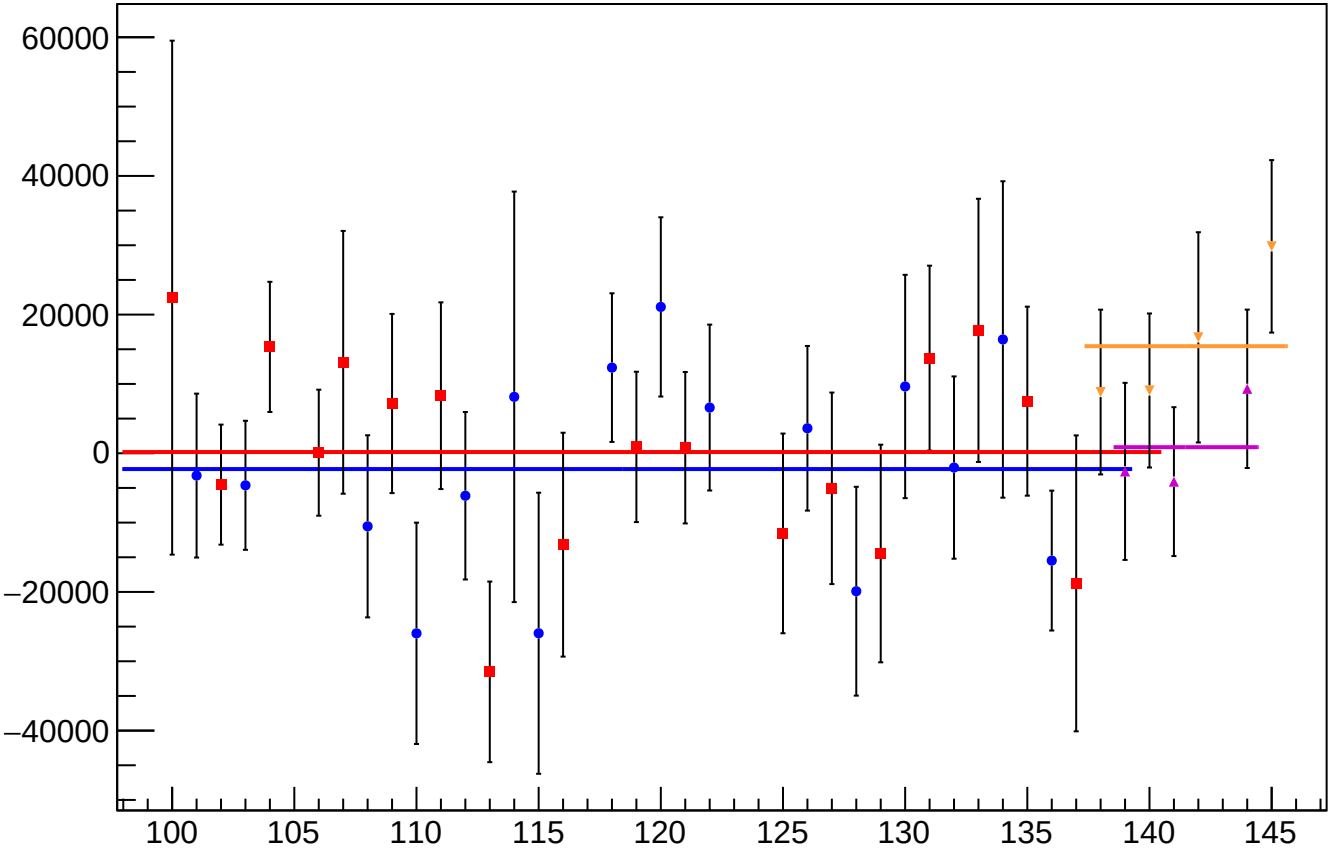
Right: 2223.029+/-0.418 $\chi^2$/NDF: 354639.0/33

In: 2293.647+/-0.520 $\chi^2$/NDF:256995.2/18

Out: 2303.124+/-0.519 $\chi^2$/NDF:256365.4/21

All: 2298.397+/-0.368 $\chi^2$/NDF: 513526.9/40

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: 15441.540+/-6201.485 $\chi^2$/NDF:2.0/3

Right Out: 177.029+/-3035.348 $\chi^2$/NDF: 15.6/17

Left In: 879.087+/-6670.742 $\chi^2$/NDF:0.8/2

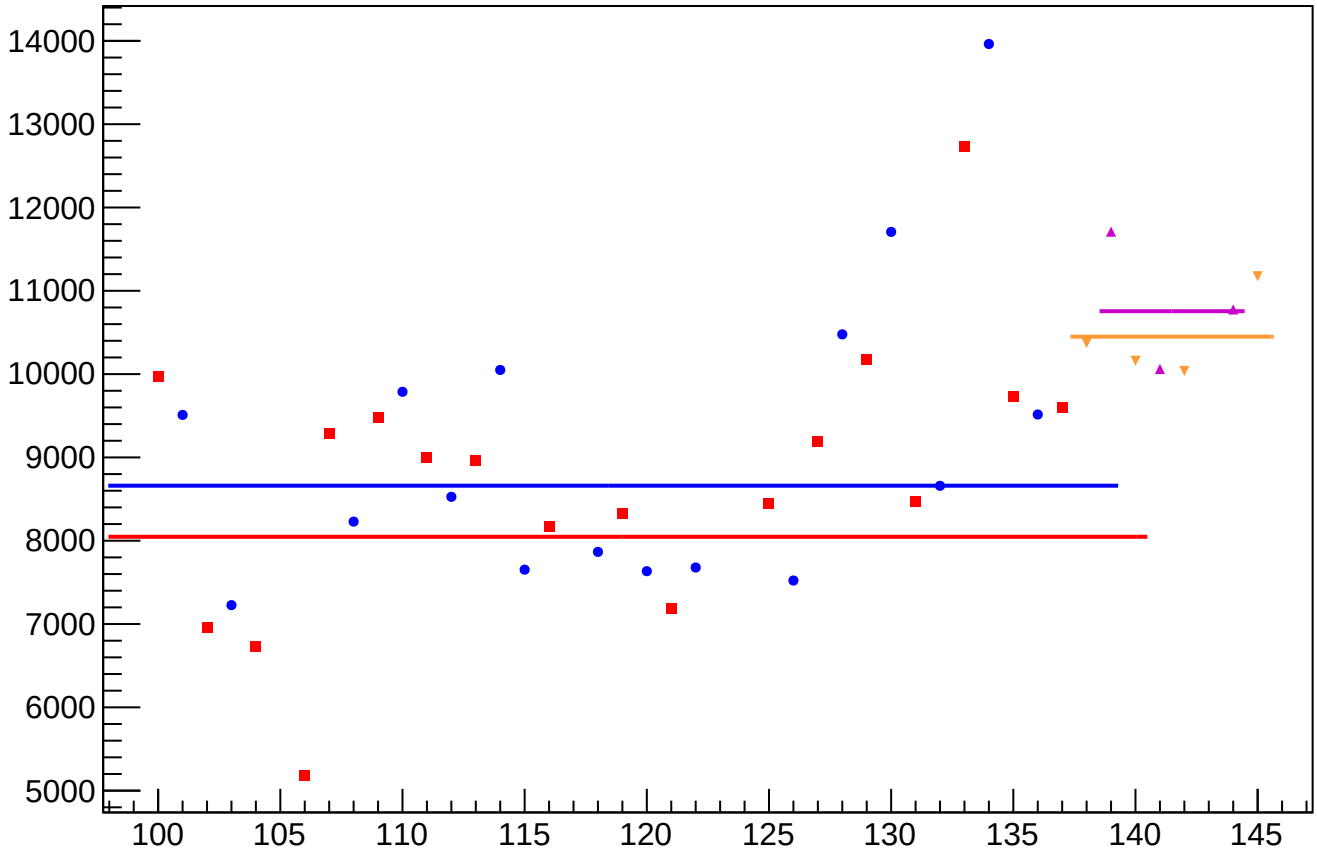
Left: 8690.483+/-4541.954 $\chi^2$/NDF: 5.4/6

Right: -958.792+/-2225.198 $\chi^2$/NDF: 30.4/33

In: -1666.154+/-2937.457 $\chi^2$/NDF:15.5/18

Out: 3127.143+/-2726.300 $\chi^2$/NDF:22.5/21

All: 908.951+/-1998.269 $\chi^2$/NDF: 39.5/40




Right In: 8660.711+/-2.313 $\chi^2$/NDF: 357964.1/15

Left Out: 10450.129+/-4.385 $\chi^2$/NDF:9701.4/3

Right Out: 8047.442+/-2.146 $\chi^2$/NDF: 558557.8/17

Left In: 10755.273+/-4.717 $\chi^2$/NDF:19538.2/2

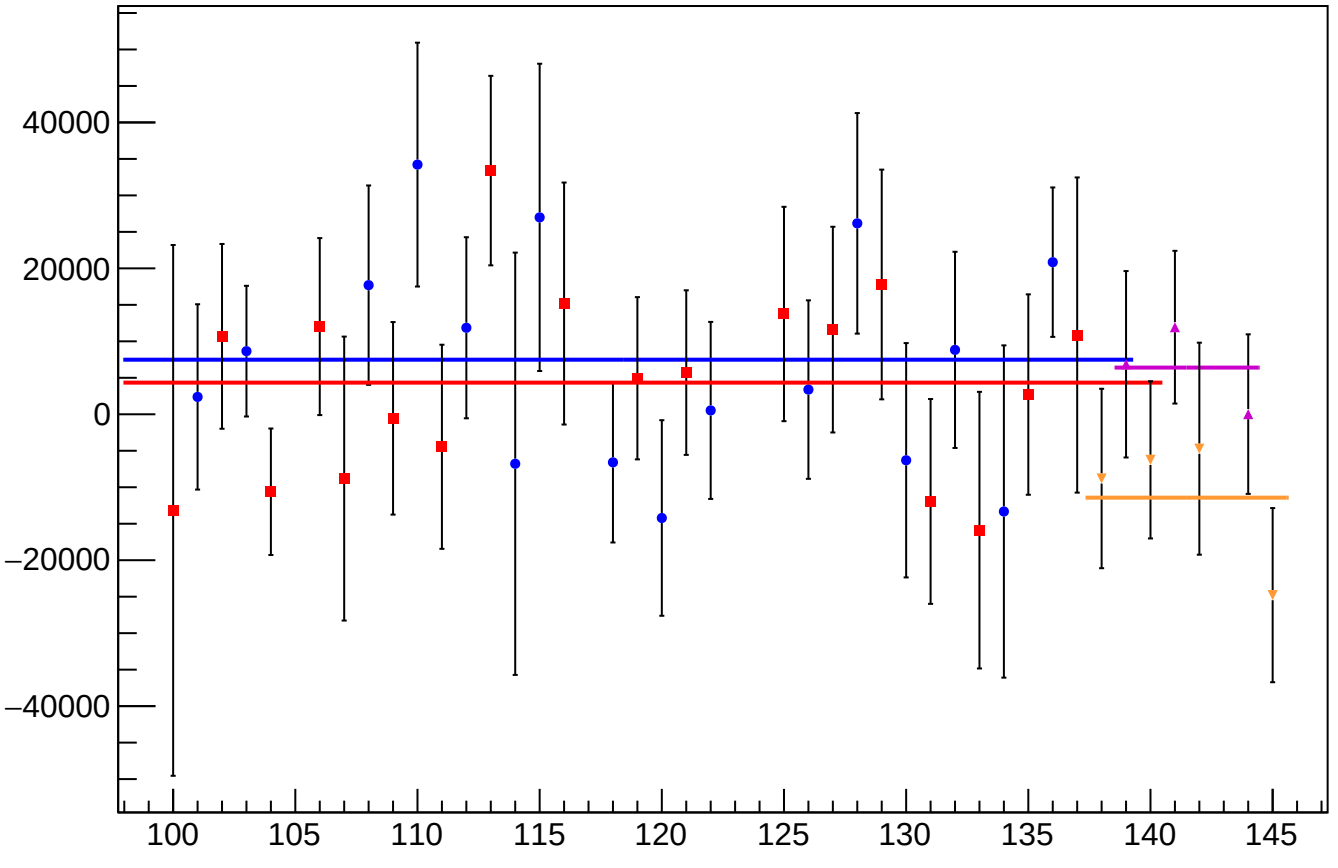
Left: 10591.592+/-3.212 $\chi^2$/NDF: 31484.4/6

Right: 8331.123+/-1.573 $\chi^2$/NDF: 954287.4/33

In: 9066.863+/-2.077 $\chi^2$/NDF:536449.6/18

Out: 8511.800+/-1.928 $\chi^2$/NDF:810453.2/21

All: 8768.666+/-1.413 $\chi^2$/NDF: 1385267.4/40




Right In: 7481.770+/-3330.915 $\chi^2$/NDF: 14.0/15

Left Out: -11426.287+/-6087.444 $\chi^2$/NDF:1.7/3

Right Out: 4338.165+/-3242.620 $\chi^2$/NDF: 14.3/17

Left In: 6400.460+/-6506.468 $\chi^2$/NDF:0.6/2

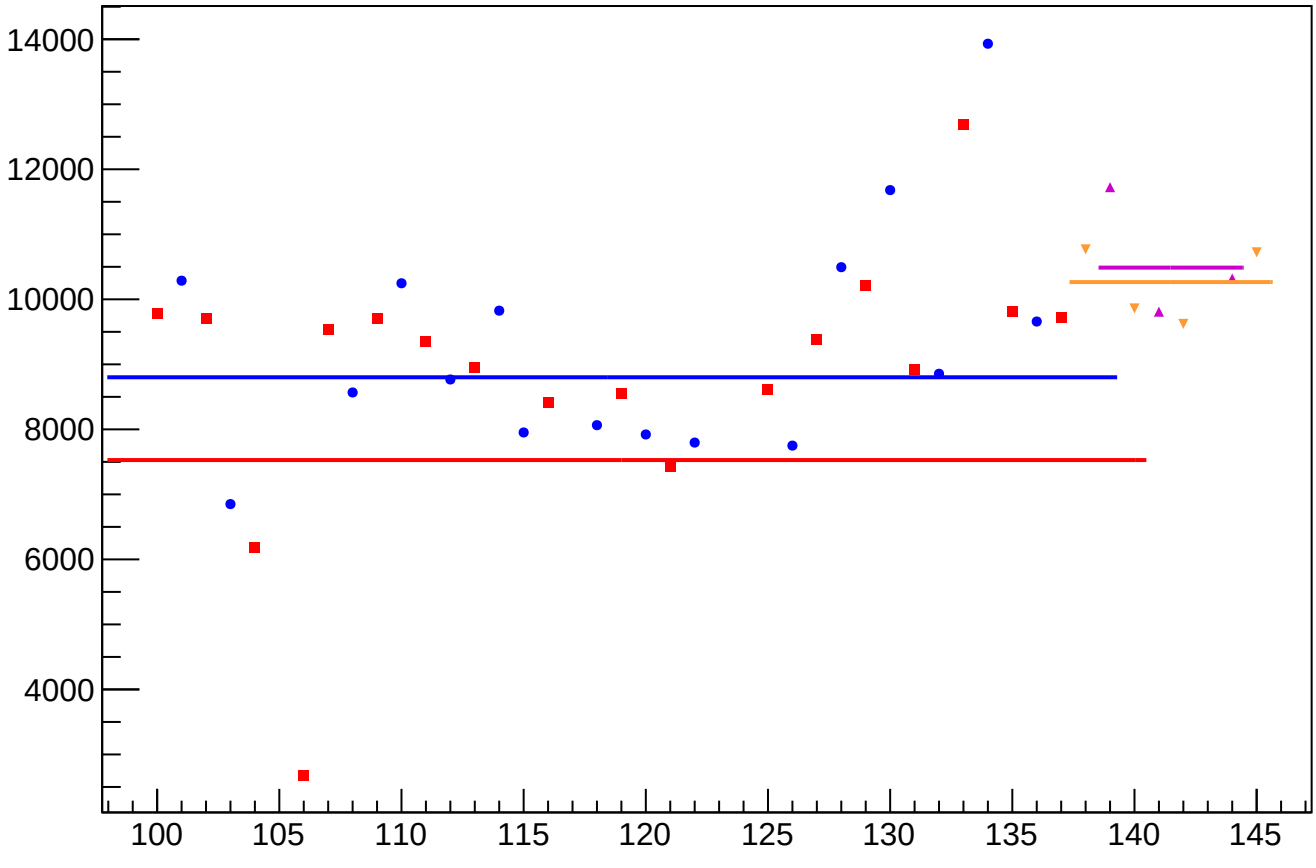
Left: -3105.389+/-4445.231 $\chi^2$/NDF: 6.4/6

Right: 5867.751+/-2323.467 $\chi^2$/NDF: 28.8/33

In: 7257.227+/-2964.967 $\chi^2$/NDF:14.7/18

Out: 853.800+/-2861.919 $\chi^2$/NDF:21.3/21

All: 3942.305+/-2059.149 $\chi^2$/NDF: 38.4/40




Right In: 8801.075+/-2.355 $\chi^2$/NDF: 394575.1/15

Left Out: 10265.215+/-4.304 $\chi^2$/NDF:13037.7/3

Right Out: 7527.803+/-2.128 $\chi^2$/NDF: 1657299.8/17

Left In: 10487.663+/-4.601 $\chi^2$/NDF:27616.9/2

Left: 10369.046+/-3.143 $\chi^2$/NDF: 41901.2/6

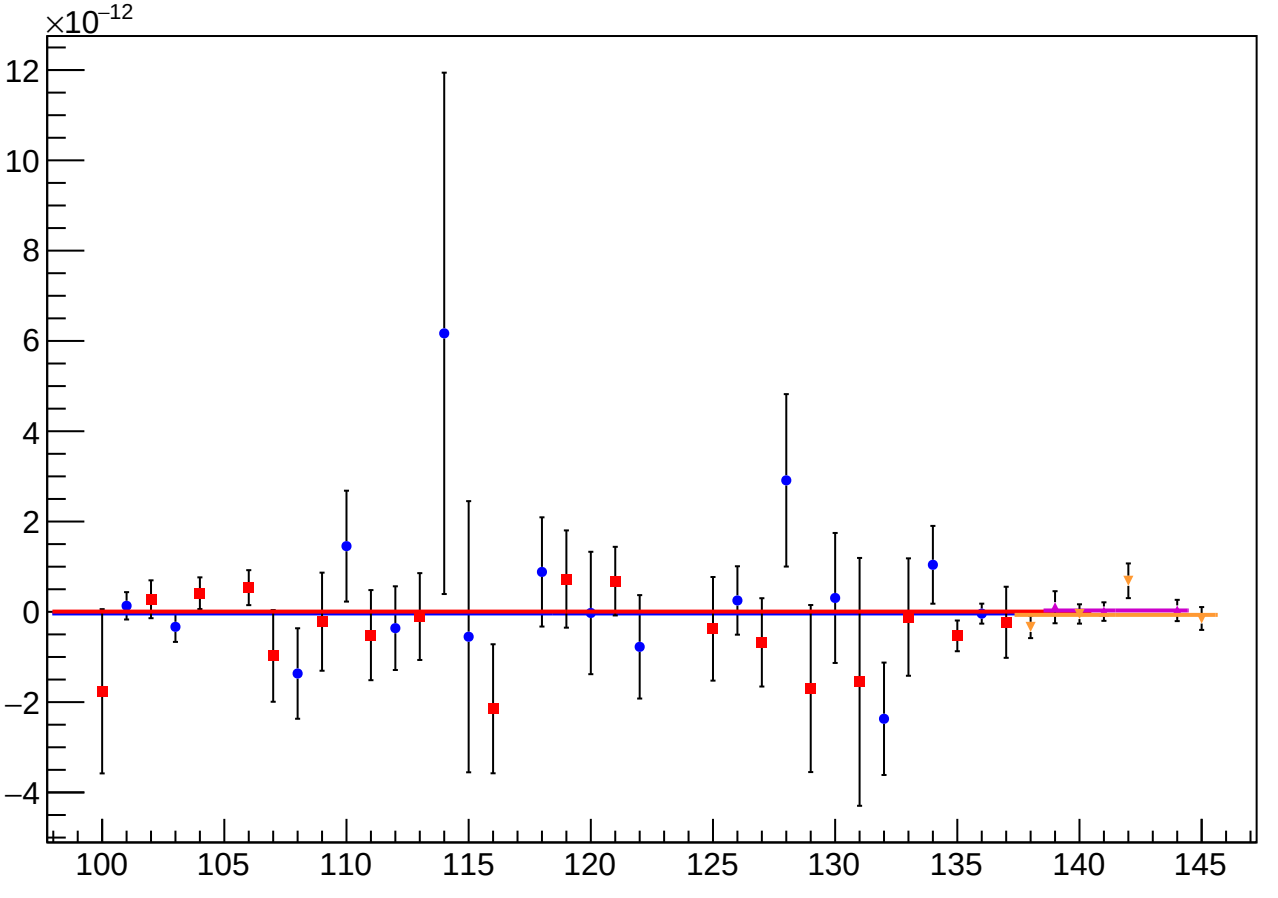
Right: 8100.150+/-1.579 $\chi^2$/NDF: 2212756.1/33

In: 9151.302+/-2.097 $\chi^2$/NDF:528673.1/18

Out: 8065.564+/-1.908 $\chi^2$/NDF:1995315.4/21

All: 8557.389+/-1.411 $\chi^2$/NDF: 2670694.1/40

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:5.1/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.1/2

Left: -0.000+/-0.000 $\chi^2$/NDF: 5.4/6

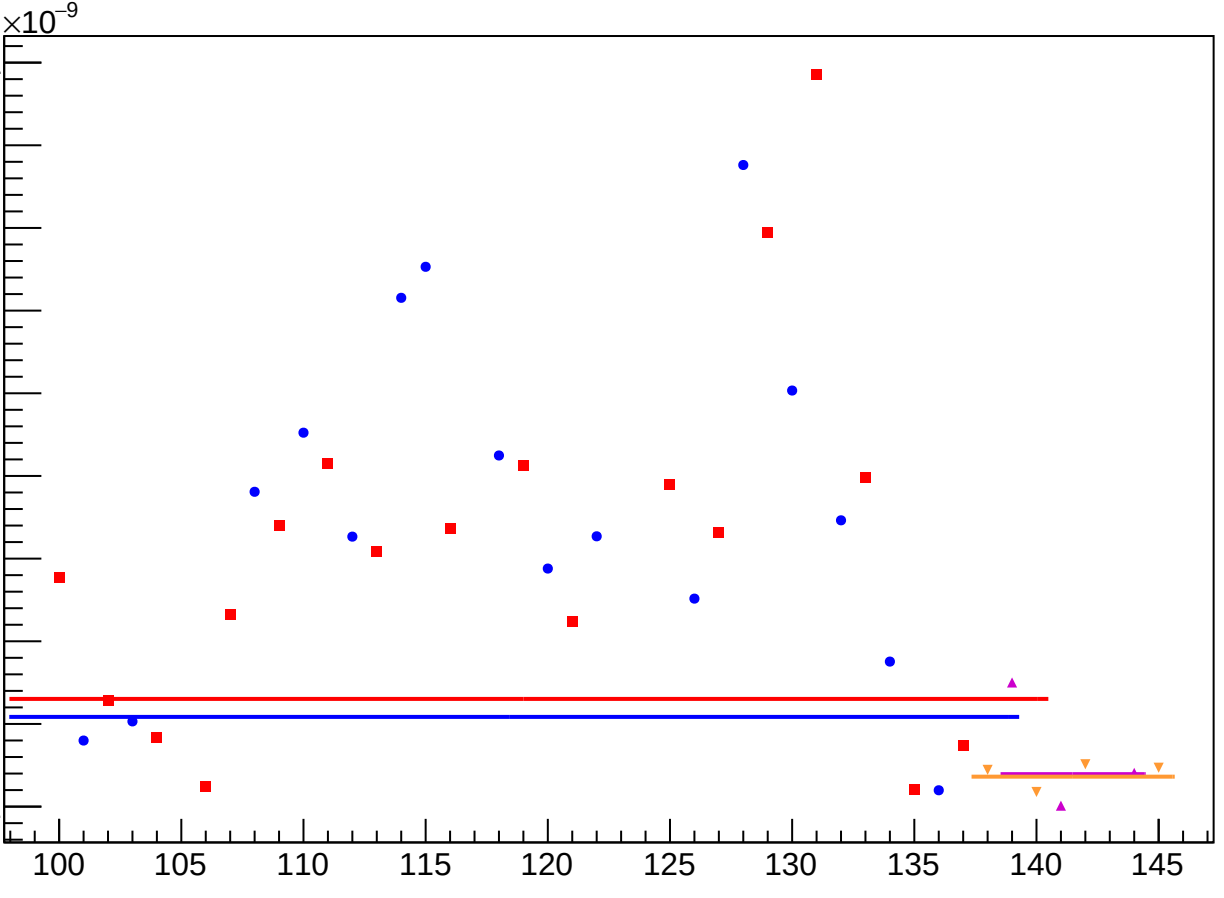
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:14.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.0/21

All: -0.000+/-0.000 $\chi^2$/NDF: 33.5/40

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:23878.5/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1561654.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:264166.6/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 288549.2/6

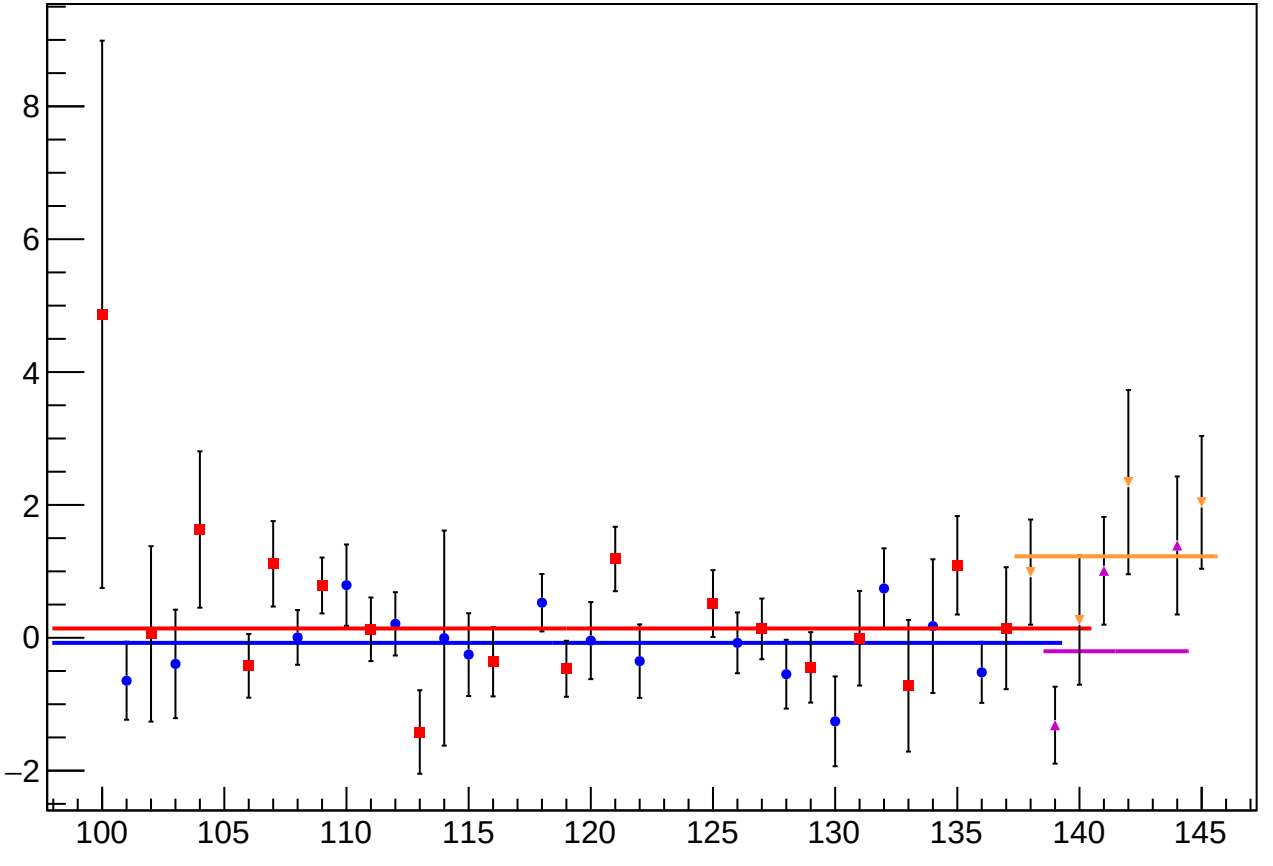
Right: 0.000+/-0.000 $\chi^2$/NDF: 3215206.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:2135075.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2016504.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 4151585.4/40

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: 1.226+/-0.489 $\chi^2$/NDF:2.4/3

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.203+/-0.429 $\chi^2$/NDF:8.3/2

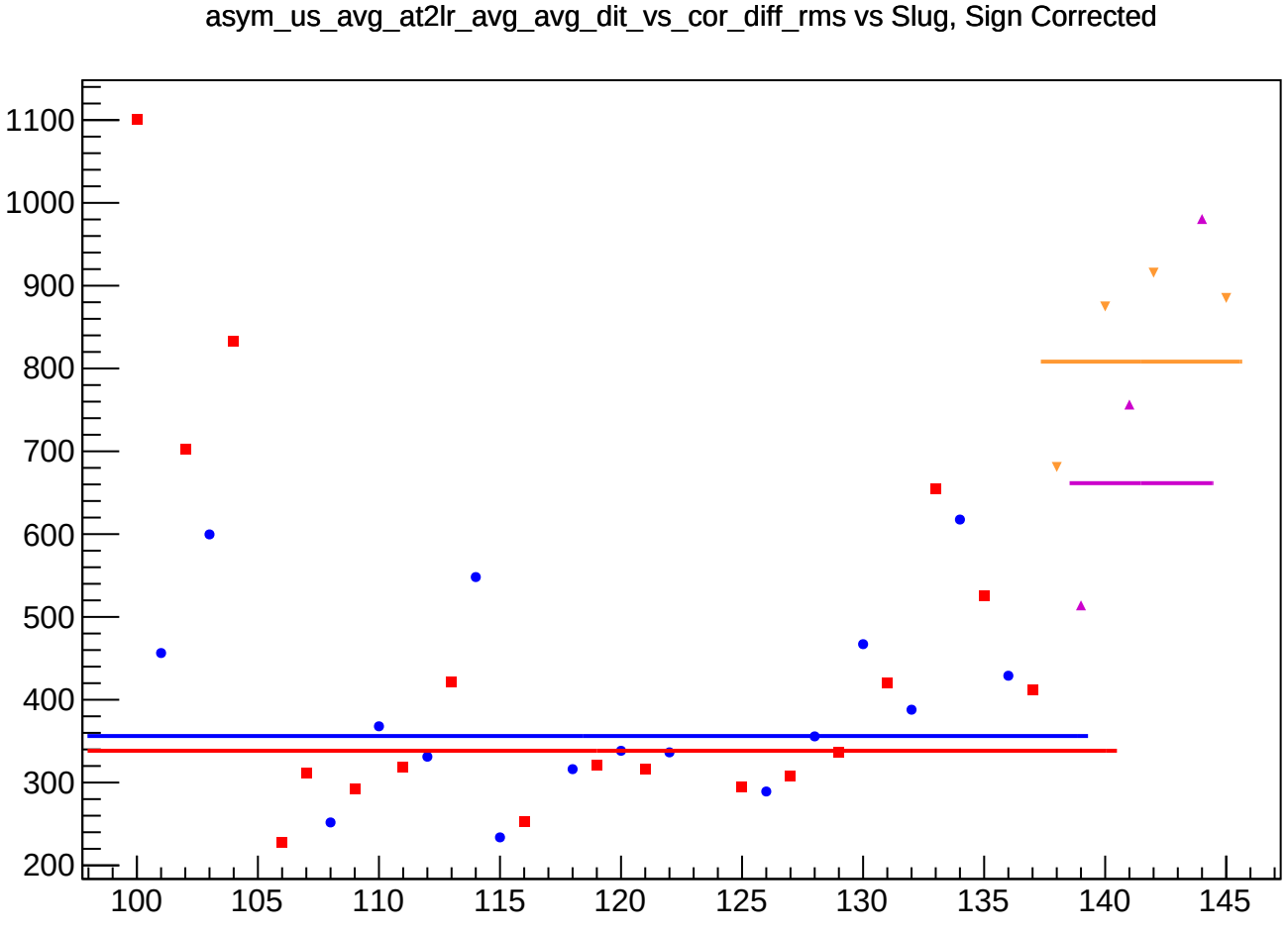
Left: 0.418+/-0.323 $\chi^2$/NDF: 15.5/6

Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.089+/-0.133 $\chi^2$/NDF:20.9/18

Out: 0.220+/-0.133 $\chi^2$/NDF:33.9/21

All: 0.066+/-0.094 $\chi^2$/NDF: 57.5/40




Right In: 356.190+/-0.099 $\chi^2$/NDF: 785107.3/15

Left Out: 808.285+/-0.346 $\chi^2$/NDF:84916.3/3

Right Out: 338.410+/-0.098 $\chi^2$/NDF: 1203282.0/17

Left In: 661.548+/-0.303 $\chi^2$/NDF:345751.4/2

Left: 725.326+/-0.228 $\chi^2$/NDF: 532300.1/6

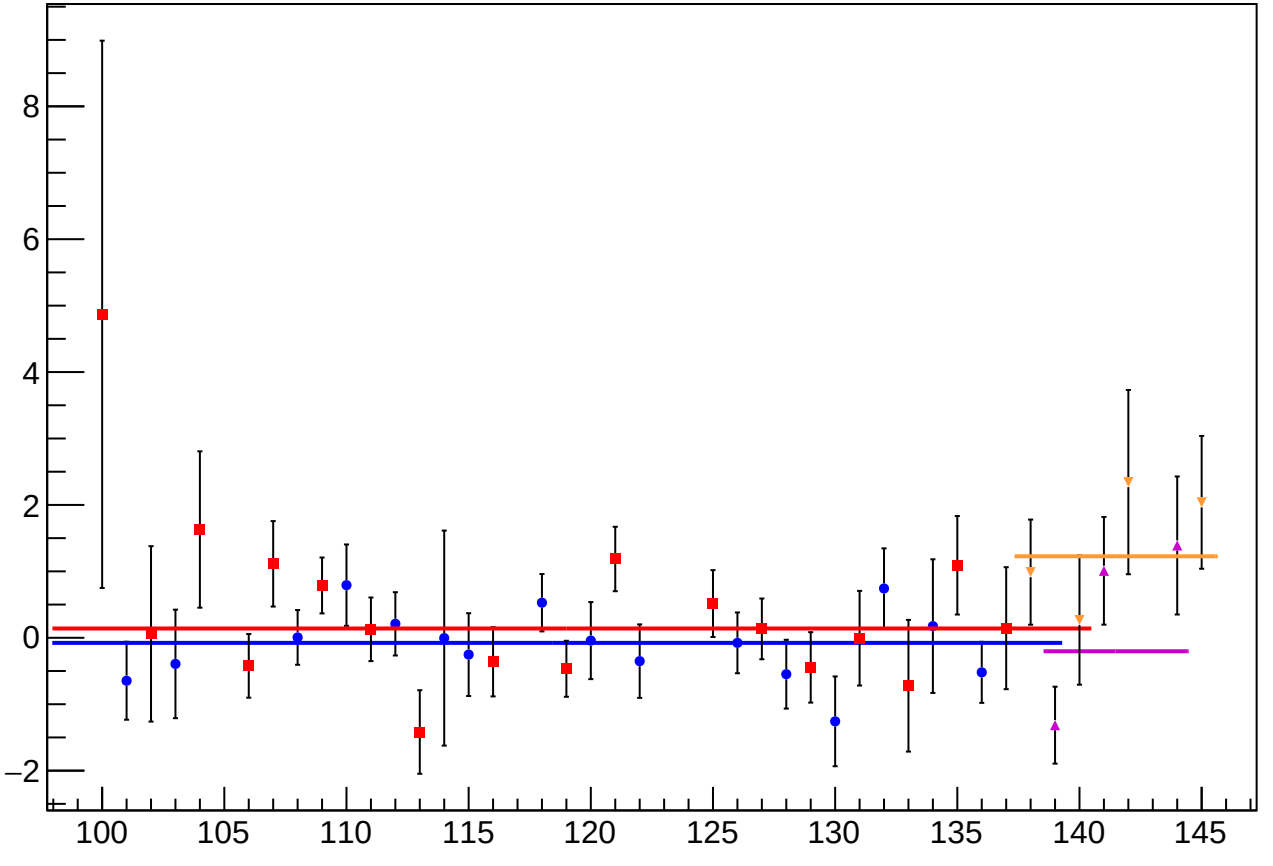
Right: 347.176+/-0.069 $\chi^2$/NDF: 2004764.4/33

In: 385.524+/-0.094 $\chi^2$/NDF:2046174.3/18

Out: 373.000+/-0.094 $\chi^2$/NDF:2995790.1/21

All: 379.252+/-0.066 $\chi^2$/NDF: 5050843.7/40

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: 1.226+/-0.489 $\chi^2$/NDF:2.4/3

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.203+/-0.429 $\chi^2$/NDF:8.3/2

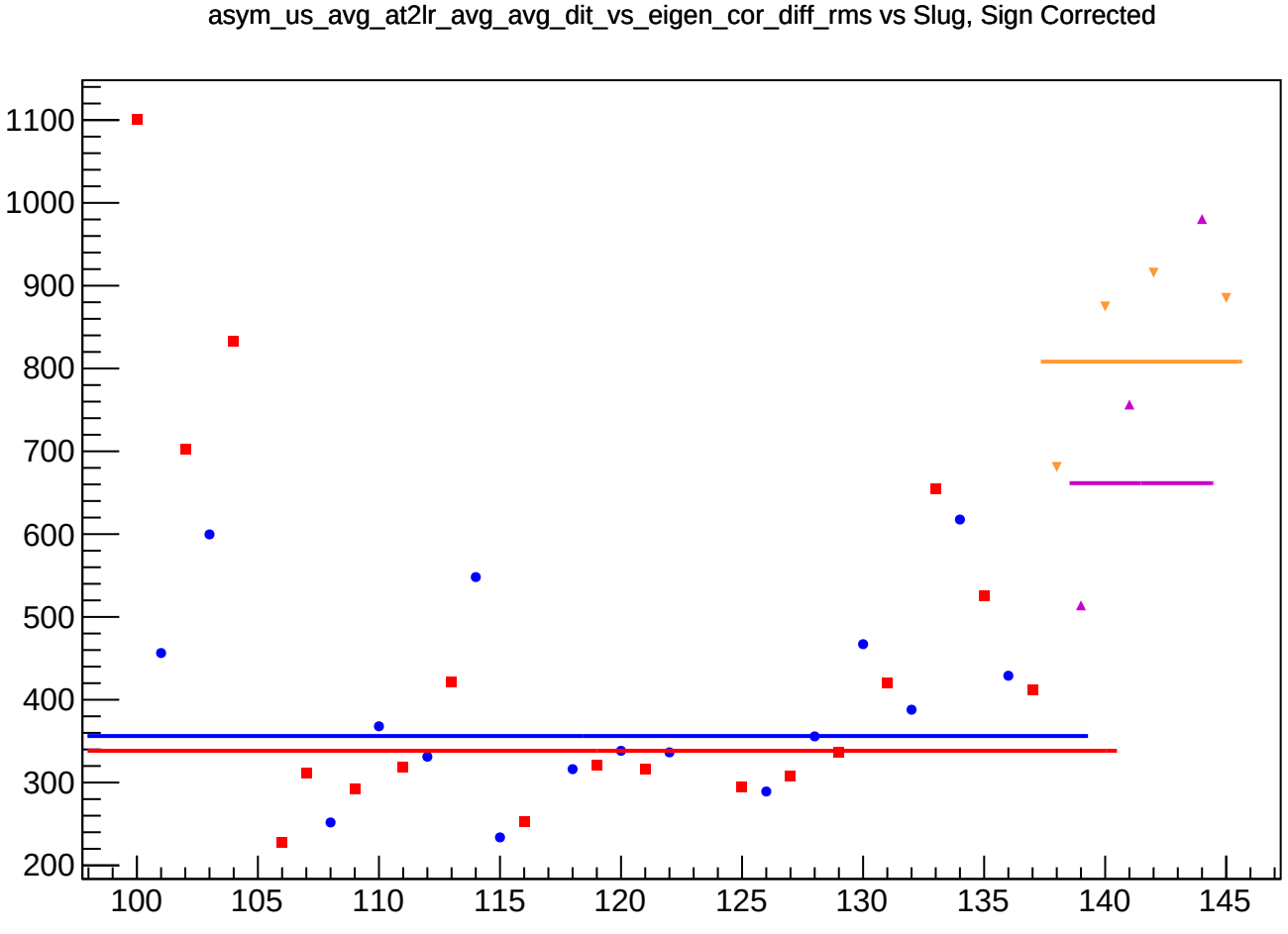
Left: 0.418+/-0.323 $\chi^2$/NDF: 15.5/6

Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.089+/-0.133 $\chi^2$/NDF:20.9/18

Out: 0.220+/-0.133 $\chi^2$/NDF:33.9/21

All: 0.066+/-0.094 $\chi^2$/NDF: 57.5/40




Right In: 356.190+/-0.099 $\chi^2$/NDF: 785107.3/15

Left Out: 808.285+/-0.346 $\chi^2$/NDF:84916.3/3

Right Out: 338.410+/-0.098 $\chi^2$/NDF: 1203282.0/17

Left In: 661.548+/-0.303 $\chi^2$/NDF:345751.4/2

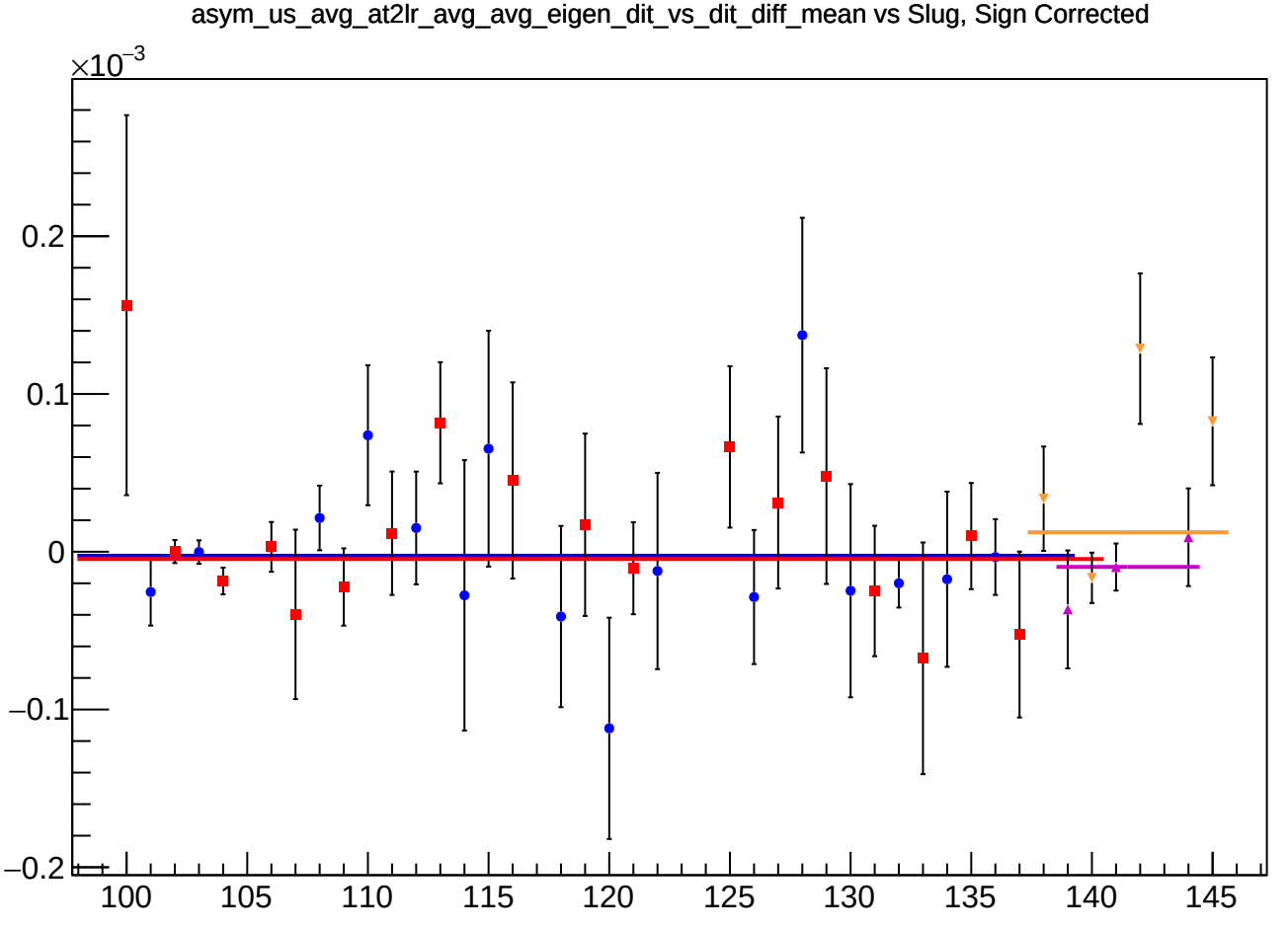
Left: 725.326+/-0.228 $\chi^2$/NDF: 532300.1/6

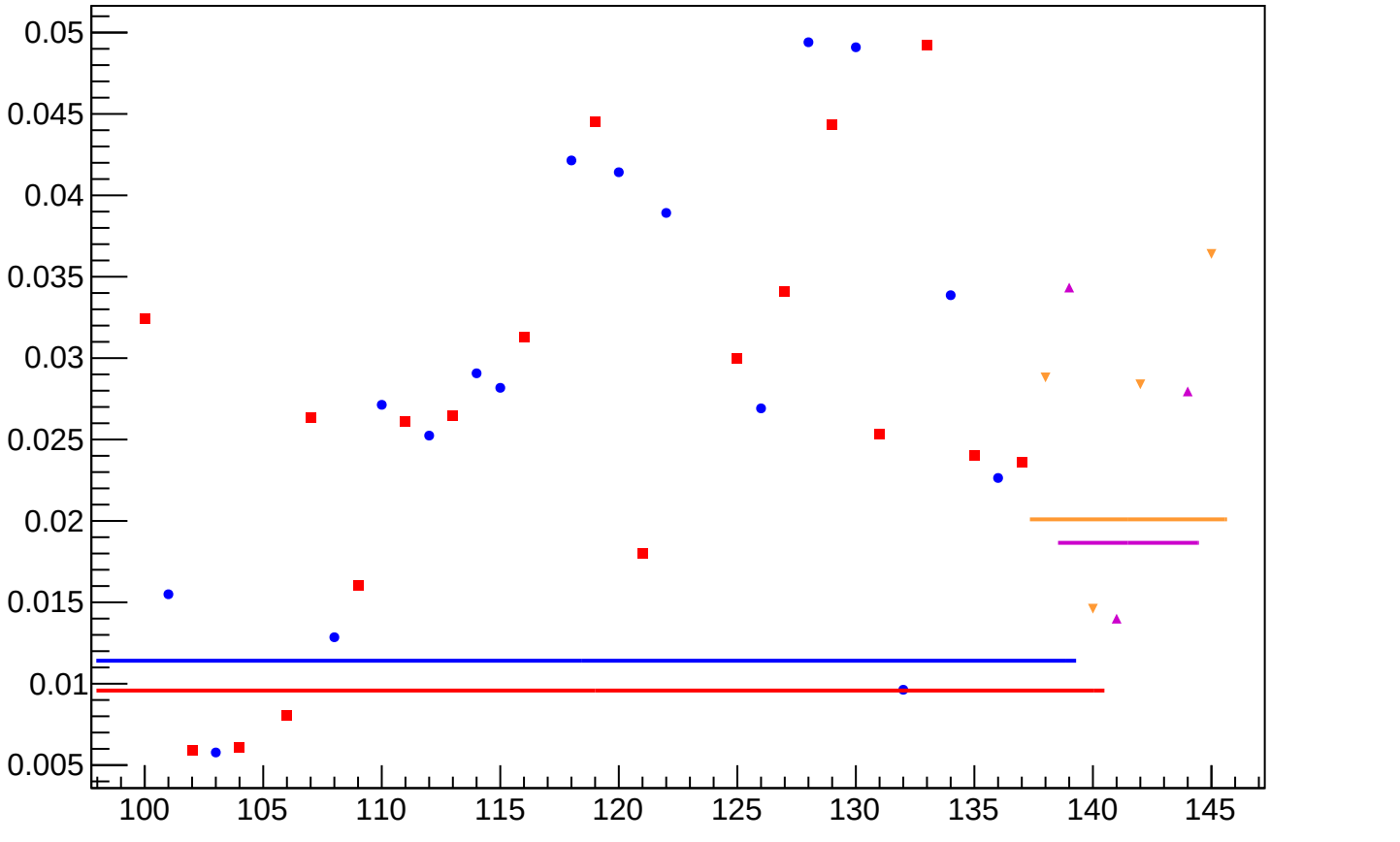
Right: 347.176+/-0.069 $\chi^2$/NDF: 2004764.4/33

In: 385.524+/-0.094 $\chi^2$/NDF:2046174.3/18

Out: 373.000+/-0.094 $\chi^2$/NDF:2995790.1/21

All: 379.252+/-0.066 $\chi^2$/NDF: 5050843.7/40


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.2
0.1
0
−0.1
−0.2
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 15.0/15
Left Out: 0.000+/-0.000 χ²/NDF:12.6/3
Right Out: -0.000+/-0.000 χ²/NDF: 17.1/17
Left In: -0.000+/-0.000 χ²/NDF:0.9/2
Left: 0.000+/-0.000 χ²/NDF: 15.0/6
Right: -0.000+/-0.000 χ²/NDF: 32.2/33
In: -0.000+/-0.000 χ²/NDF:16.2/18
Out: -0.000+/-0.000 χ²/NDF:31.2/21
All: -0.000+/-0.000 χ²/NDF: 47.4/40




Right In: 0.011+/-0.000 $\chi^2$/NDF: 5500651.2/15

Left Out: 0.020+/-0.000 $\chi^2$/NDF:759797.6/3

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 5787700.4/17

Left In: 0.019+/-0.000 $\chi^2$/NDF:727743.2/2

Left: 0.019+/-0.000 $\chi^2$/NDF: 1500150.5/6

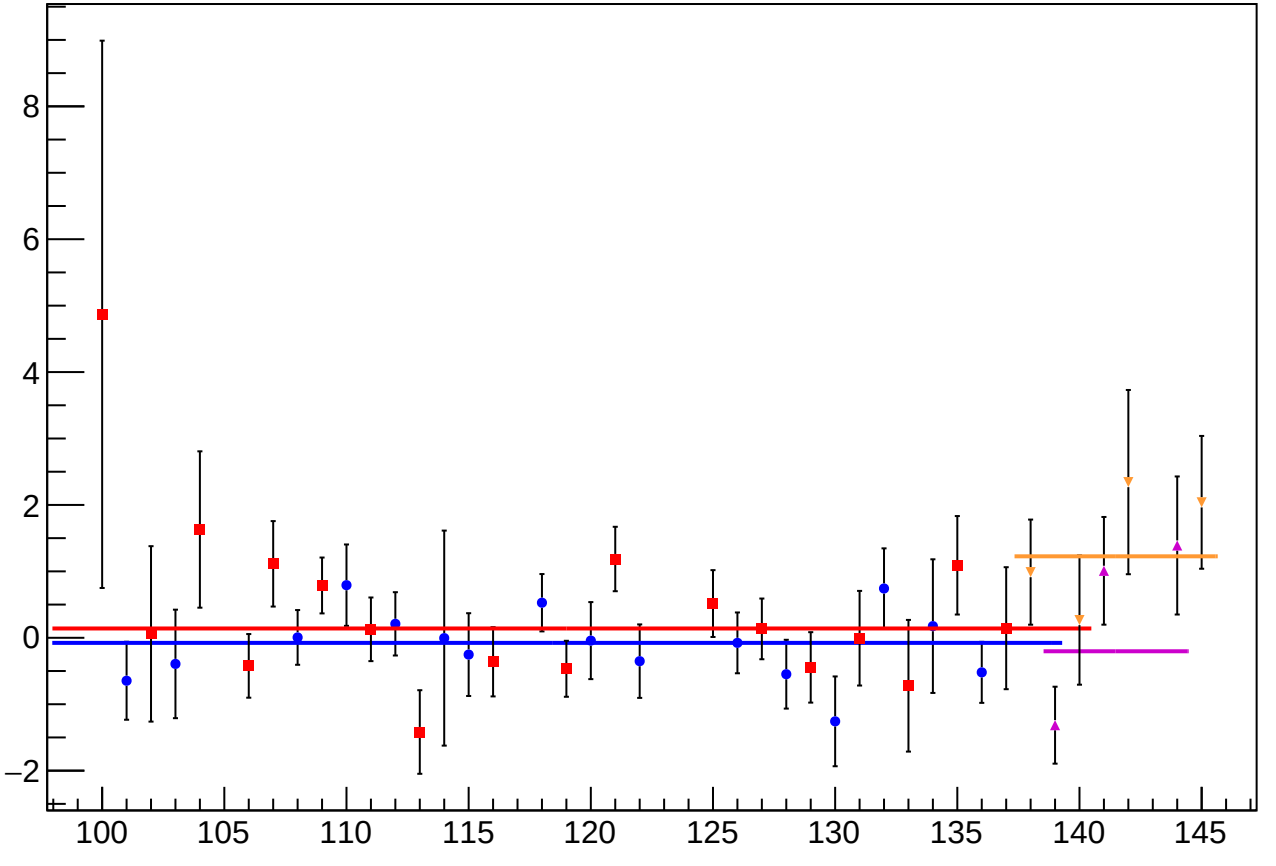
Right: 0.010+/-0.000 $\chi^2$/NDF: 11414181.9/33

In: 0.013+/-0.000 $\chi^2$/NDF:6778233.4/18

Out: 0.011+/-0.000 $\chi^2$/NDF:7698230.0/21

All: 0.012+/-0.000 $\chi^2$/NDF: 14616038.9/40

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: 1.227+/-0.489 $\chi^2$/NDF:2.4/3

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.203+/-0.429 $\chi^2$/NDF:8.3/2

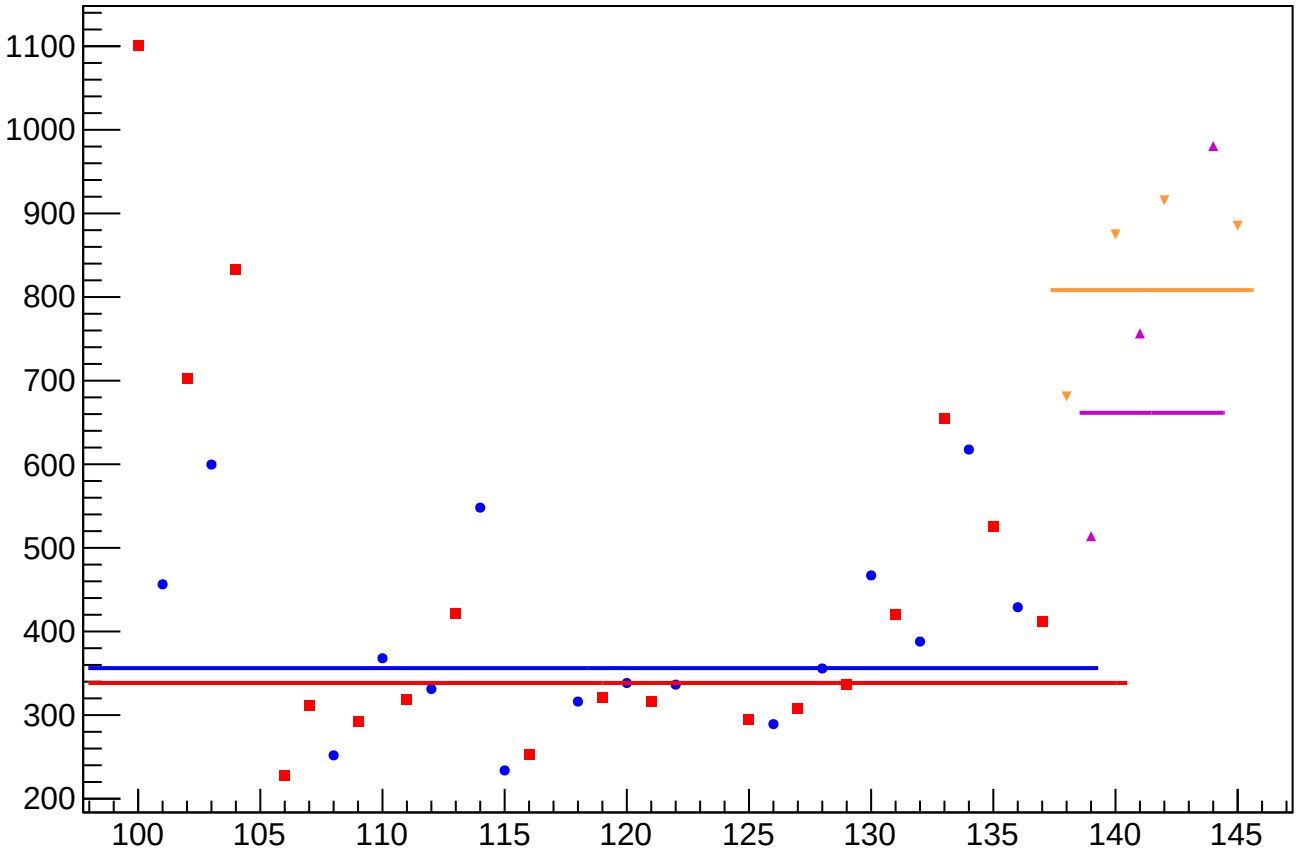
Left: 0.418+/-0.323 $\chi^2$/NDF: 15.5/6

Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.089+/-0.133 $\chi^2$/NDF:20.9/18

Out: 0.220+/-0.133 $\chi^2$/NDF:33.9/21

All: 0.066+/-0.094 $\chi^2$/NDF: 57.5/40




Right In: 356.188+/-0.099 $\chi^2$/NDF: 785072.9/15

Left Out: 808.295+/-0.346 $\chi^2$/NDF:84919.2/3

Right Out: 338.408+/-0.098 $\chi^2$/NDF: 1203260.7/17

Left In: 661.560+/-0.303 $\chi^2$/NDF:345738.0/2

Left: 725.338+/-0.228 $\chi^2$/NDF: 532283.3/6

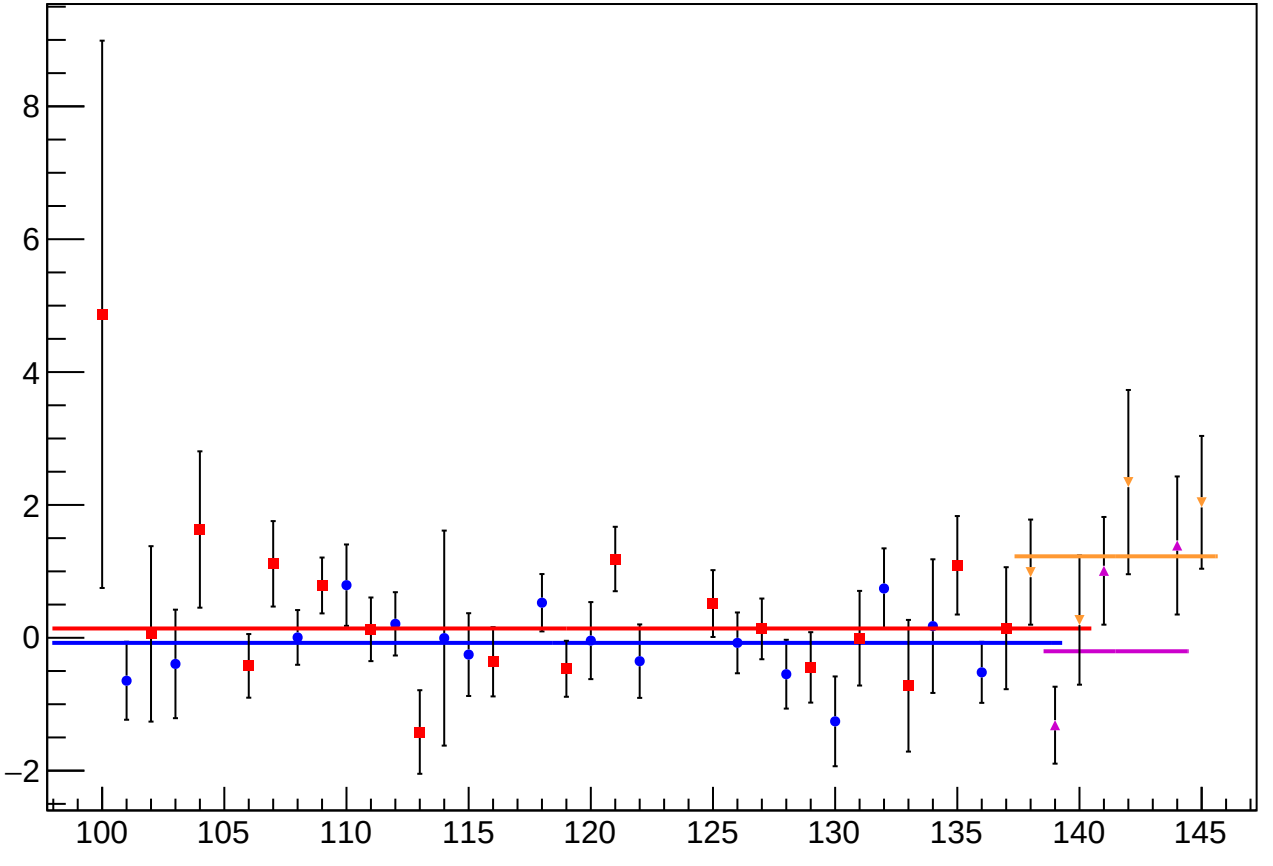
Right: 347.175+/-0.069 $\chi^2$/NDF: 2004710.0/33

In: 385.522+/-0.094 $\chi^2$/NDF:2046180.1/18

Out: 372.998+/-0.094 $\chi^2$/NDF:2995820.6/21

All: 379.250+/-0.066 $\chi^2$/NDF: 5050881.6/40

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: 1.227+/-0.489 $\chi^2$/NDF:2.4/3

Right Out: 0.140+/-0.138 $\chi^2$/NDF: 27.0/17

Left In: -0.203+/-0.429 $\chi^2$/NDF:8.3/2

Left: 0.418+/-0.323 $\chi^2$/NDF: 15.5/6

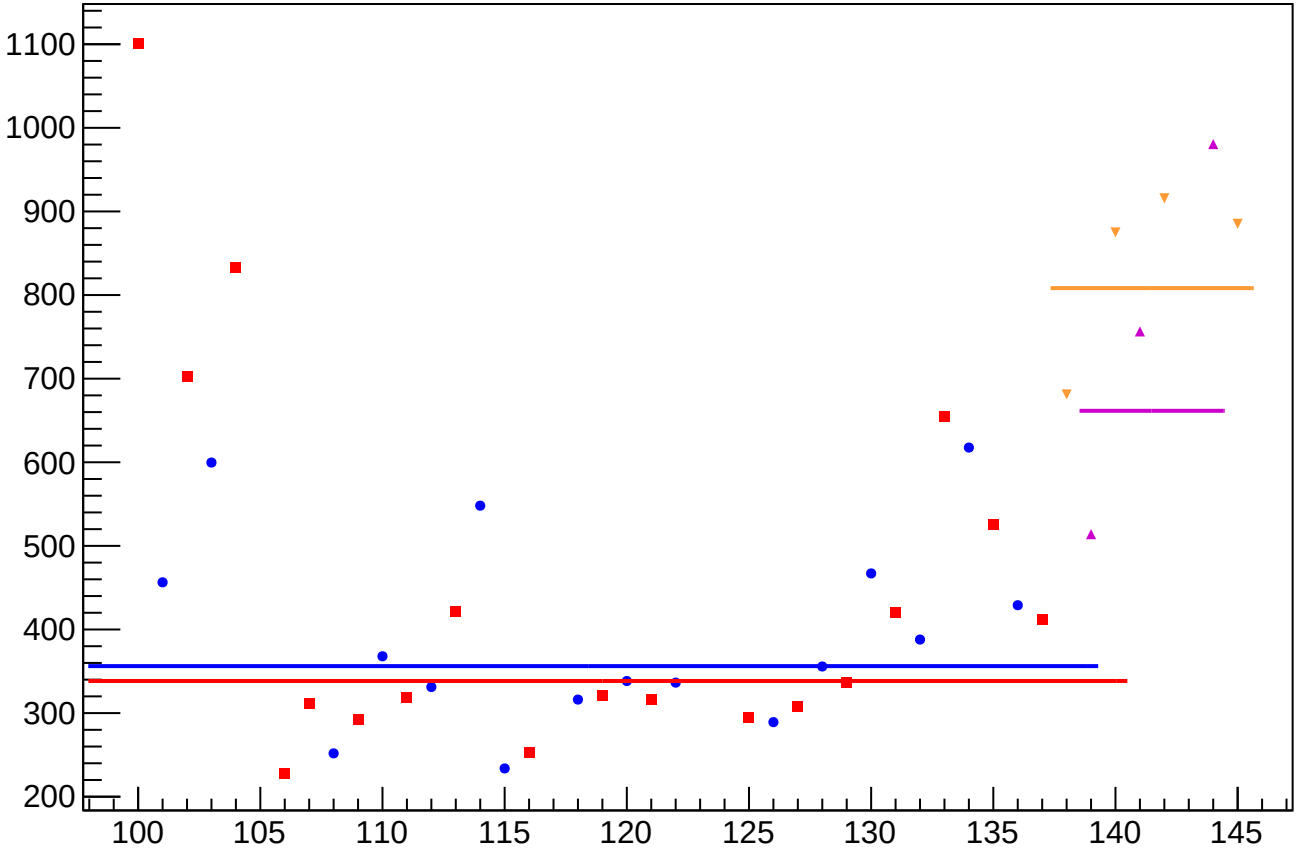
Right: 0.033+/-0.098 $\chi^2$/NDF: 40.7/33

In: -0.089+/-0.133 $\chi^2$/NDF:20.9/18

Out: 0.220+/-0.133 $\chi^2$/NDF:33.9/21

All: 0.066+/-0.094 $\chi^2$/NDF: 57.5/40

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: 808.295+/-0.346 $\chi^2$/NDF:84919.2/3

Right Out: 338.408+/-0.098 $\chi^2$/NDF: 1203260.7/17

Left In: 661.560+/-0.303 $\chi^2$/NDF:345738.0/2

Left: 725.338+/-0.228 $\chi^2$/NDF: 532283.3/6

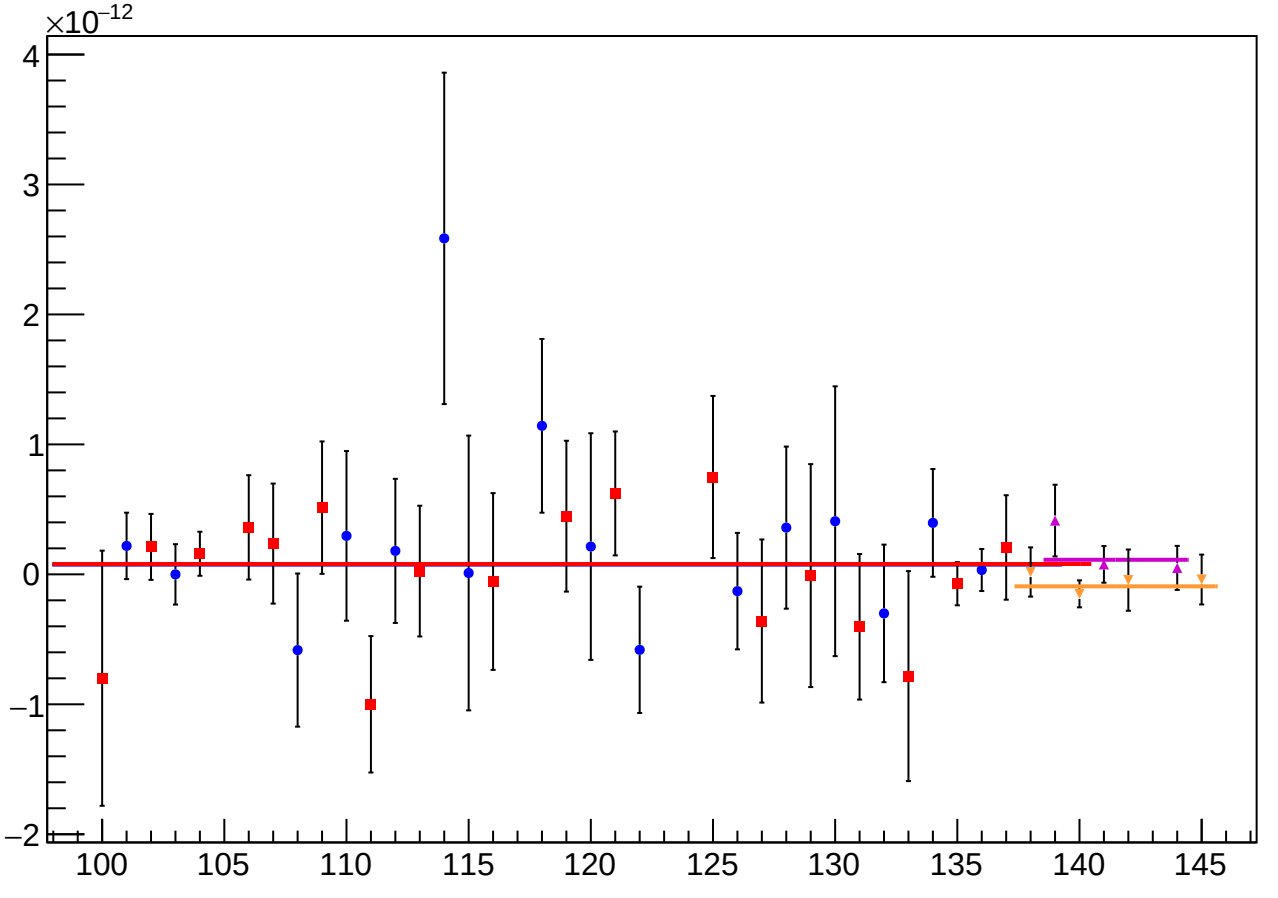
Right: 347.175+/-0.069 $\chi^2$/NDF: 2004710.0/33

In: 385.522+/-0.094 $\chi^2$/NDF:2046180.1/18

Out: 372.998+/-0.094 $\chi^2$/NDF:2995820.6/21

All: 379.250+/-0.066 $\chi^2$/NDF: 5050881.6/40

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:0.8/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/2

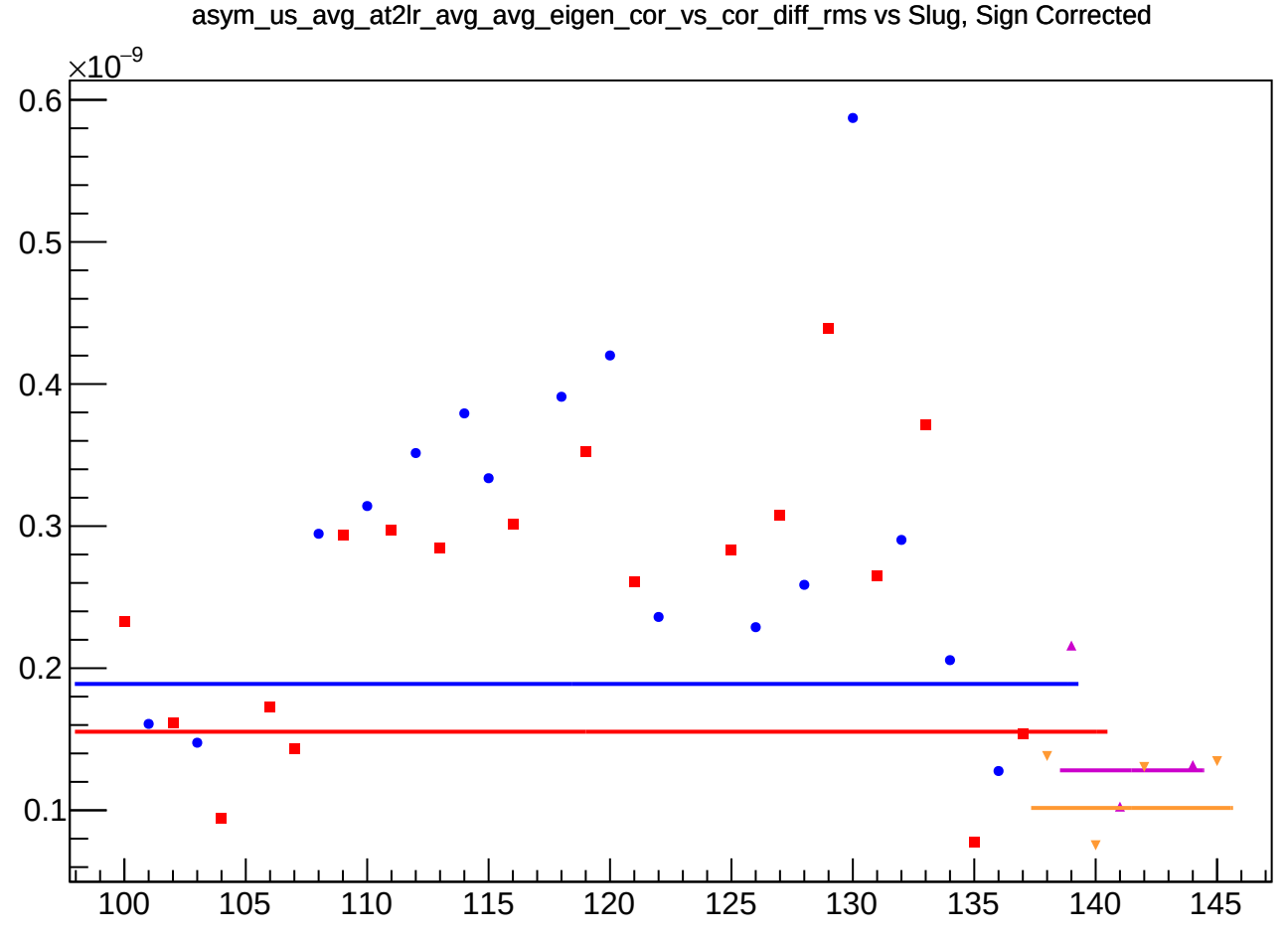
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.7/6

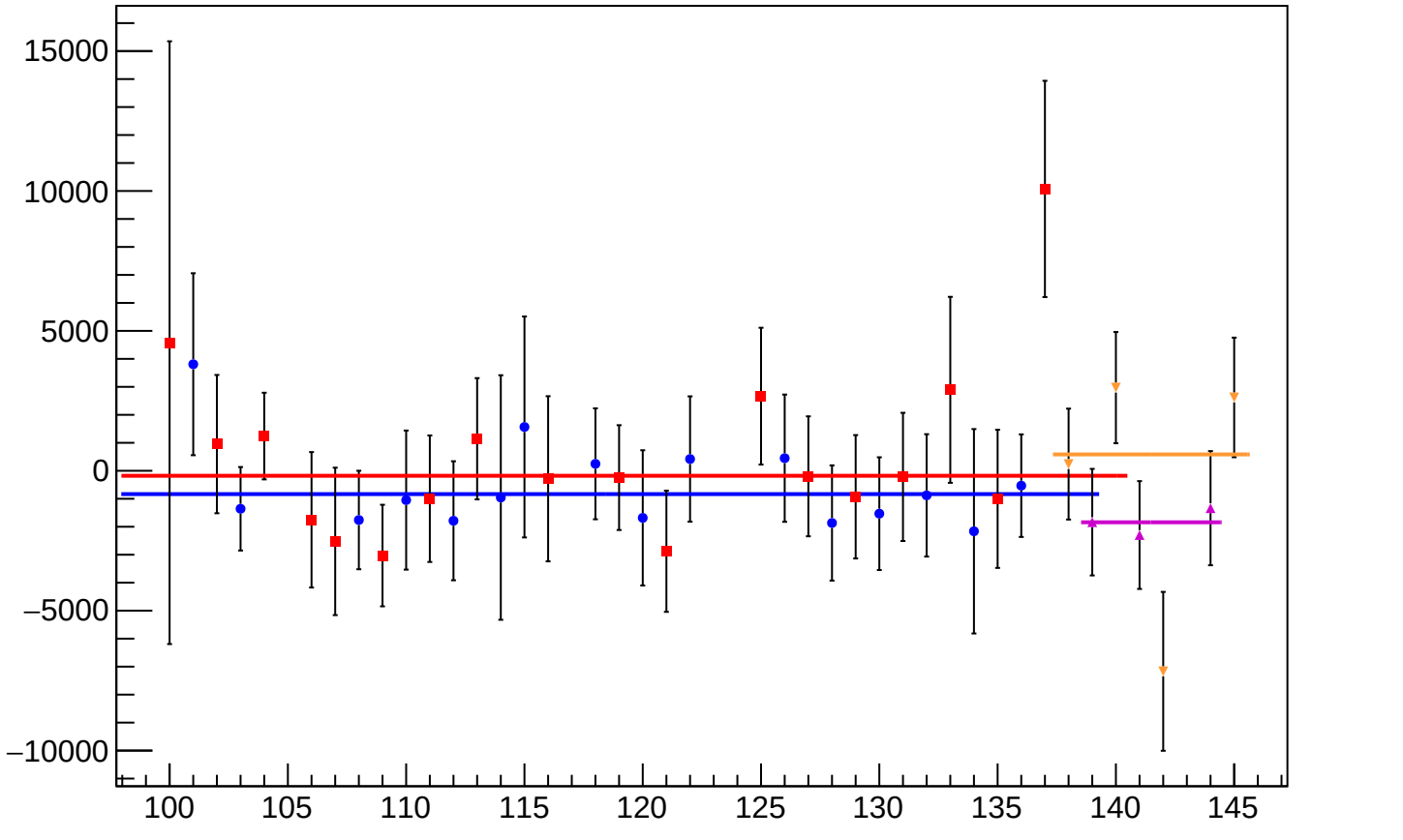
Right: 0.000+/-0.000 $\chi^2$/NDF: 24.9/33

In: 0.000+/-0.000 $\chi^2$/NDF:13.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:16.1/21

All: 0.000+/-0.000 $\chi^2$/NDF: 30.7/40


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1520620.9/15
Left Out: 0.000+/-0.000 χ²/NDF:291179.2/3
Right Out: 0.000+/-0.000 χ²/NDF: 2200687.6/17
Left In: 0.000+/-0.000 χ²/NDF:269415.2/2
Left: 0.000+/-0.000 χ²/NDF: 647077.1/6
Right: 0.000+/-0.000 χ²/NDF: 3857679.7/33
In: 0.000+/-0.000 χ²/NDF:2170108.8/18
Out: 0.000+/-0.000 χ²/NDF:2923424.0/21
All: 0.000+/-0.000 χ²/NDF: 5376592.2/40




Right In: -833.479+/-554.833 $\chi^2$/NDF: 4.6/15

Left Out: 585.018+/-1084.317 $\chi^2$/NDF:9.8/3

Right Out: -178.292+/-547.824 $\chi^2$/NDF: 16.5/17

Left In: -1840.965+/-1128.254 $\chi^2$/NDF:0.1/2

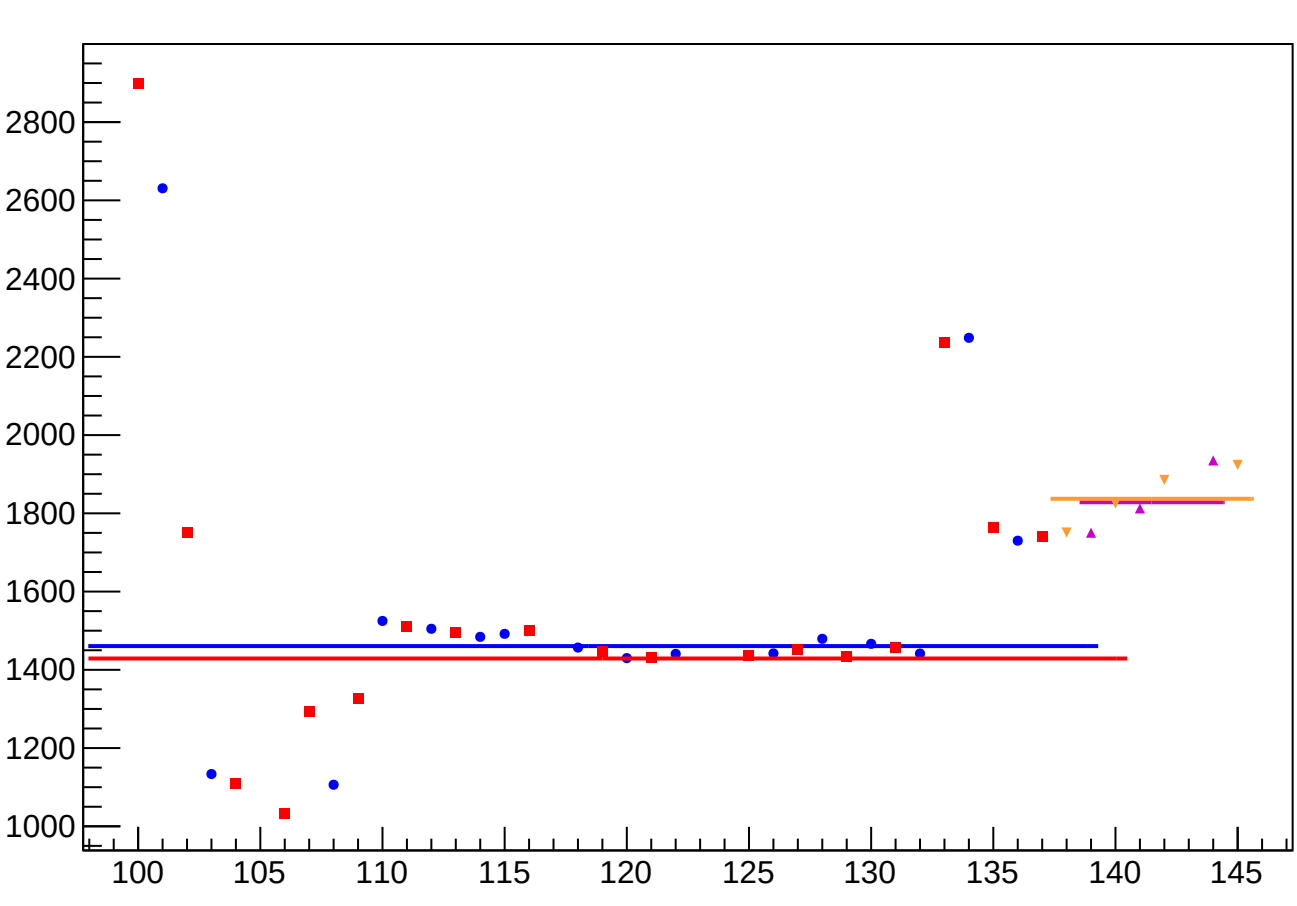
Left: -579.818+/-781.799 $\chi^2$/NDF: 12.4/6

Right: -501.721+/-389.824 $\chi^2$/NDF: 21.8/33

In: -1029.674+/-497.887 $\chi^2$/NDF:5.4/18

Out: -23.076+/-488.962 $\chi^2$/NDF:26.7/21

All: -517.272+/-348.861 $\chi^2$/NDF: 34.1/40




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.1/15

Left Out: 1837.223+/-0.767 $\chi^2$/NDF:7709.9/3

Right Out: 1428.940+/-0.385 $\chi^2$/NDF: 411275.6/17

Left In: 1828.351+/-0.798 $\chi^2$/NDF:8964.3/2

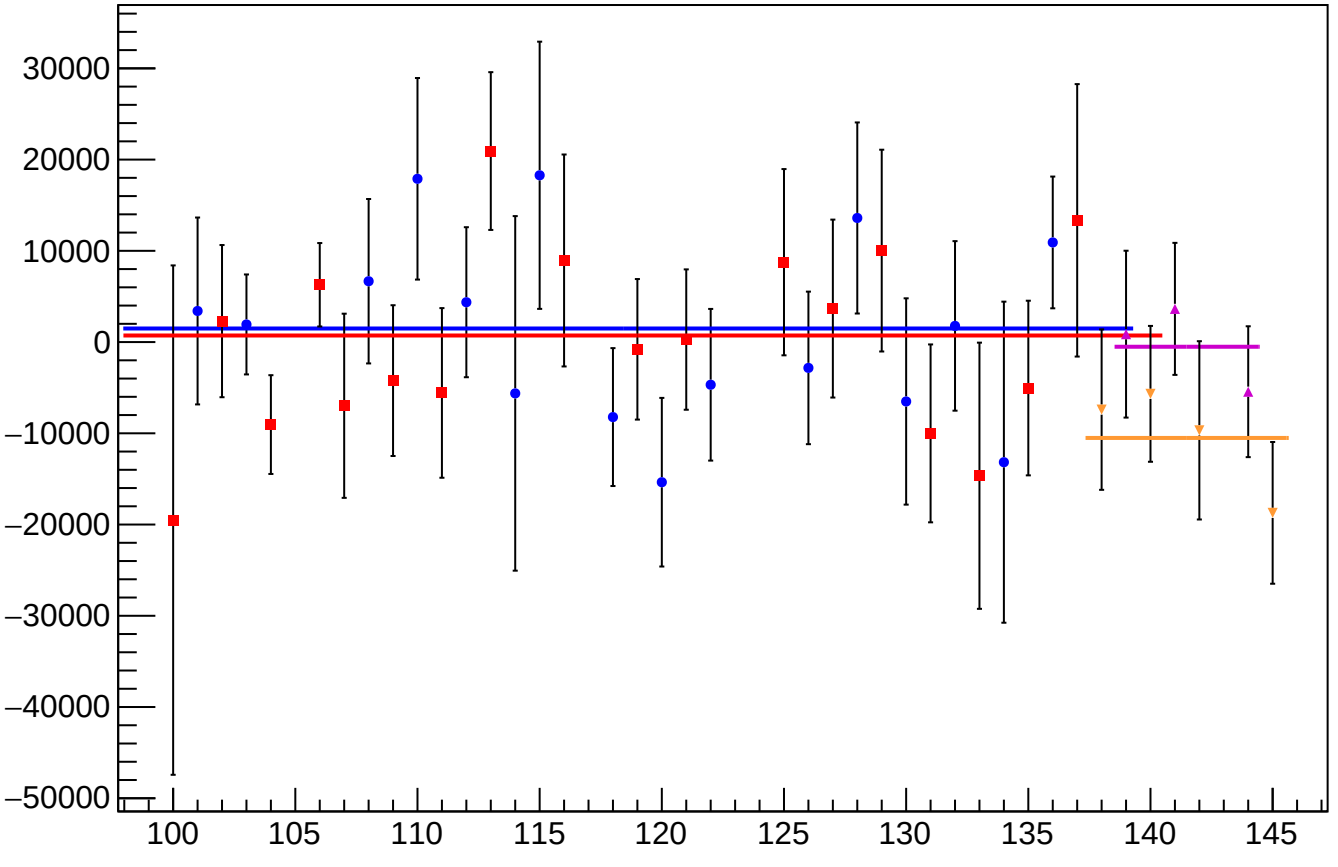
Left: 1832.963+/-0.553 $\chi^2$/NDF: 16738.5/6

Right: 1444.478+/-0.275 $\chi^2$/NDF: 990344.6/33

In: 1532.258+/-0.352 $\chi^2$/NDF:755755.0/18

Out: 1510.988+/-0.344 $\chi^2$/NDF:645559.4/21

All: 1521.367+/-0.246 $\chi^2$/NDF: 1403183.3/40




Right In: 1487.438+/-2268.028 $\chi^2$/NDF: 14.2/15

Left Out: -10508.488+/-4151.535 $\chi^2$/NDF:1.7/3

Right Out: 720.166+/-2011.559 $\chi^2$/NDF: 17.5/17

Left In: -512.687+/-4449.685 $\chi^2$/NDF:0.8/2

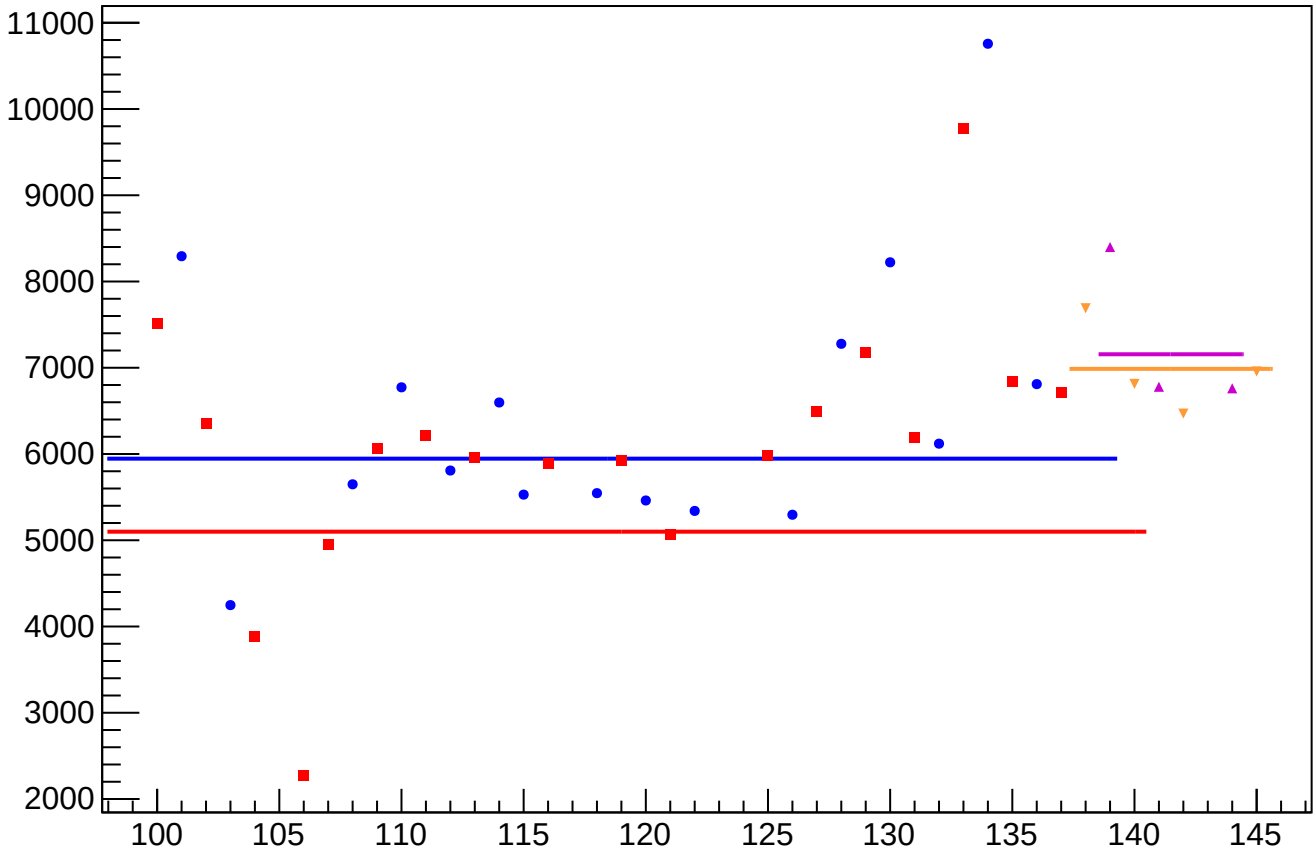
Left: -5856.663+/-3035.514 $\chi^2$/NDF: 5.2/6

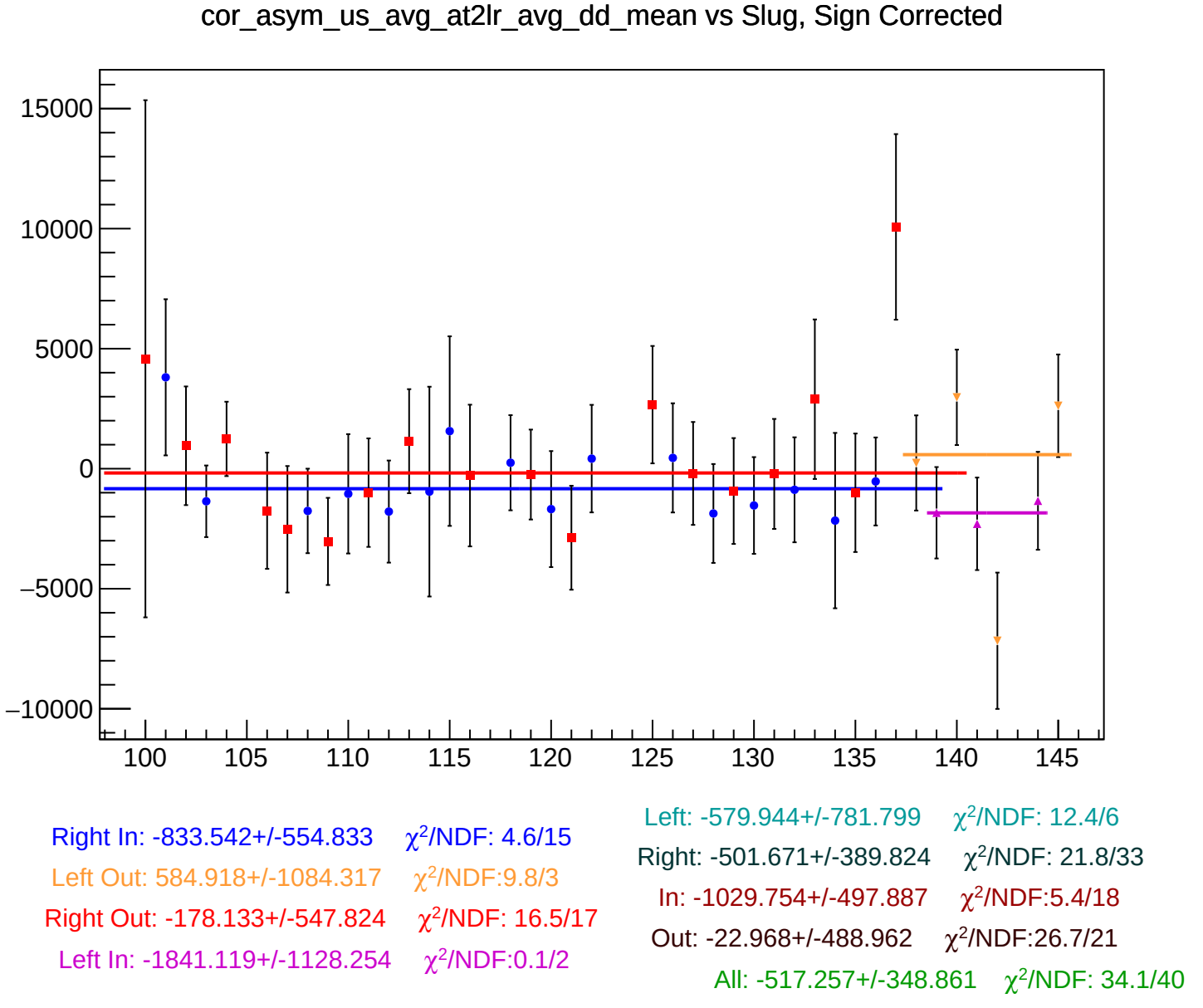
Right: 1057.985+/-1504.928 $\chi^2$/NDF: 31.8/33

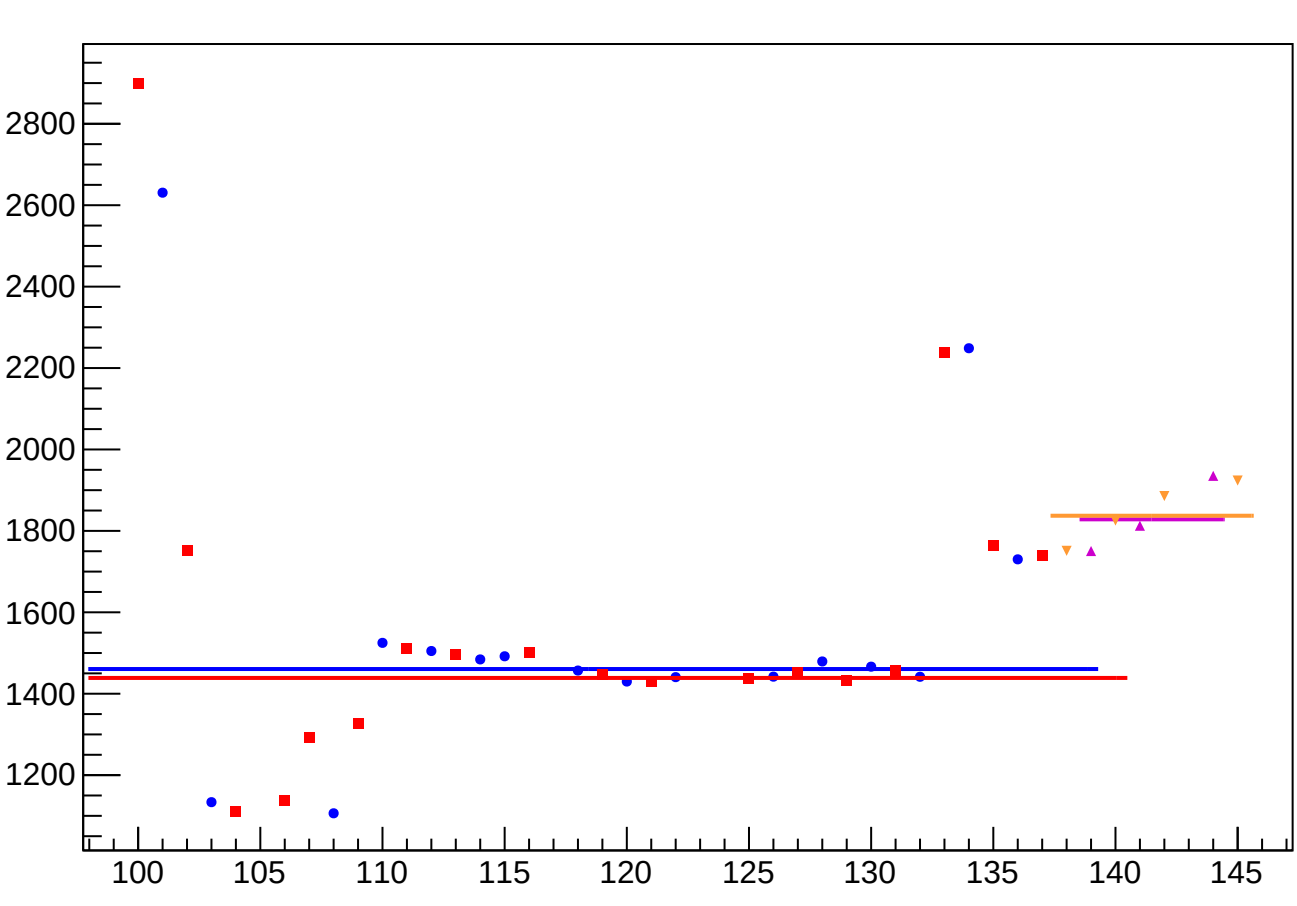
In: 1074.966+/-2020.681 $\chi^2$/NDF:15.2/18

Out: -1414.788+/-1810.252 $\chi^2$/NDF:25.1/21

All: -306.259+/-1348.320 $\chi^2$/NDF: 41.1/40


asym_us_avg_at2lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
100
105
110
115
120
125
130
135
140
145
Right In: 5946.080+/-1.604 χ²/NDF: 641131.4/15
Left Out: 6987.426+/-2.936 χ²/NDF:19551.1/3
Right Out: 5099.375+/-1.422 χ²/NDF: 1480367.2/17
Left In: 7156.423+/-3.146 χ²/NDF:48485.5/2
Left: 7066.074+/-2.146 χ²/NDF: 69578.9/6
Right: 5472.167+/-1.064 χ²/NDF: 2277512.7/33
In: 6195.680+/-1.429 χ²/NDF:807076.3/18
Out: 5458.358+/-1.280 χ²/NDF:1834924.7/21
All: 5786.641+/-0.953 χ²/NDF: 2789726.9/40


cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -833.542+/-554.833 χ²/NDF: 4.6/15
Left Out: 584.918+/-1084.317 χ²/NDF:9.8/3
Right Out: -178.133+/-547.824 χ²/NDF: 16.5/17
Left In: -1841.119+/-1128.254 χ²/NDF:0.1/2
Left: -579.944+/-781.799 χ²/NDF: 12.4/6
Right: -501.671+/-389.824 χ²/NDF: 21.8/33
In: -1029.754+/-497.887 χ²/NDF:5.4/18
Out: -22.968+/-488.962 χ²/NDF:26.7/21
All: -517.257+/-348.861 χ²/NDF: 34.1/40




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.3/15

Left Out: 1837.223+/-0.767 $\chi^2$/NDF:7709.9/3

Right Out: 1438.764+/-0.386 $\chi^2$/NDF: 373375.6/17

Left In: 1828.351+/-0.798 $\chi^2$/NDF:8964.3/2

Left: 1832.963+/-0.553 $\chi^2$/NDF: 16738.5/6

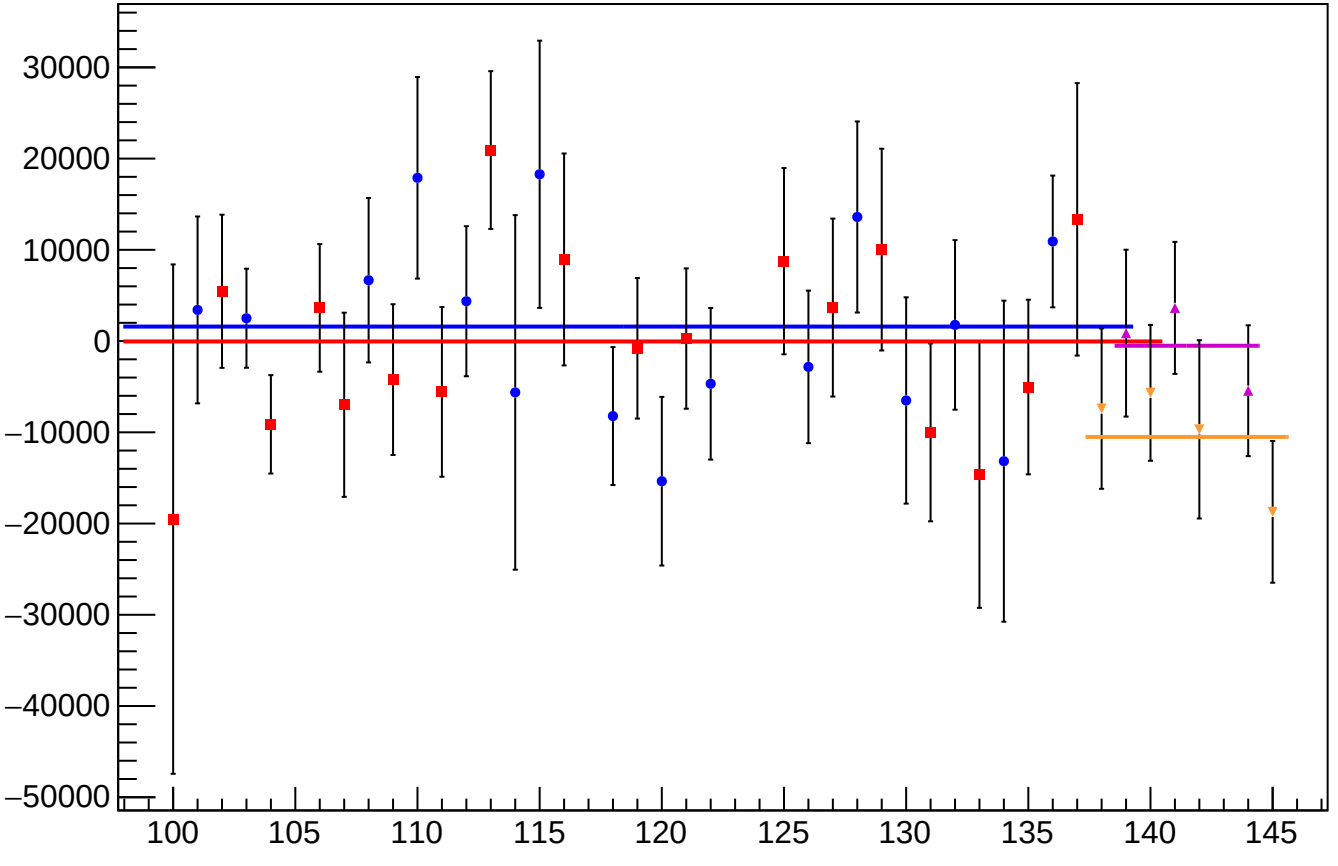
Right: 1449.544+/-0.275 $\chi^2$/NDF: 950691.7/33

In: 1532.258+/-0.352 $\chi^2$/NDF:755755.4/18

Out: 1519.494+/-0.345 $\chi^2$/NDF:596441.8/21

All: 1525.749+/-0.246 $\chi^2$/NDF: 1352867.4/40

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 1588.655+/-2264.260 $\chi^2$/NDF: 14.2/15

Left Out: -10508.558+/-4151.530 $\chi^2$/NDF:1.7/3

Right Out: -40.643+/-2133.039 $\chi^2$/NDF: 16.5/17

Left In: -512.751+/-4449.682 $\chi^2$/NDF:0.8/2

Left: -5856.733+/-3035.510 $\chi^2$/NDF: 5.2/6

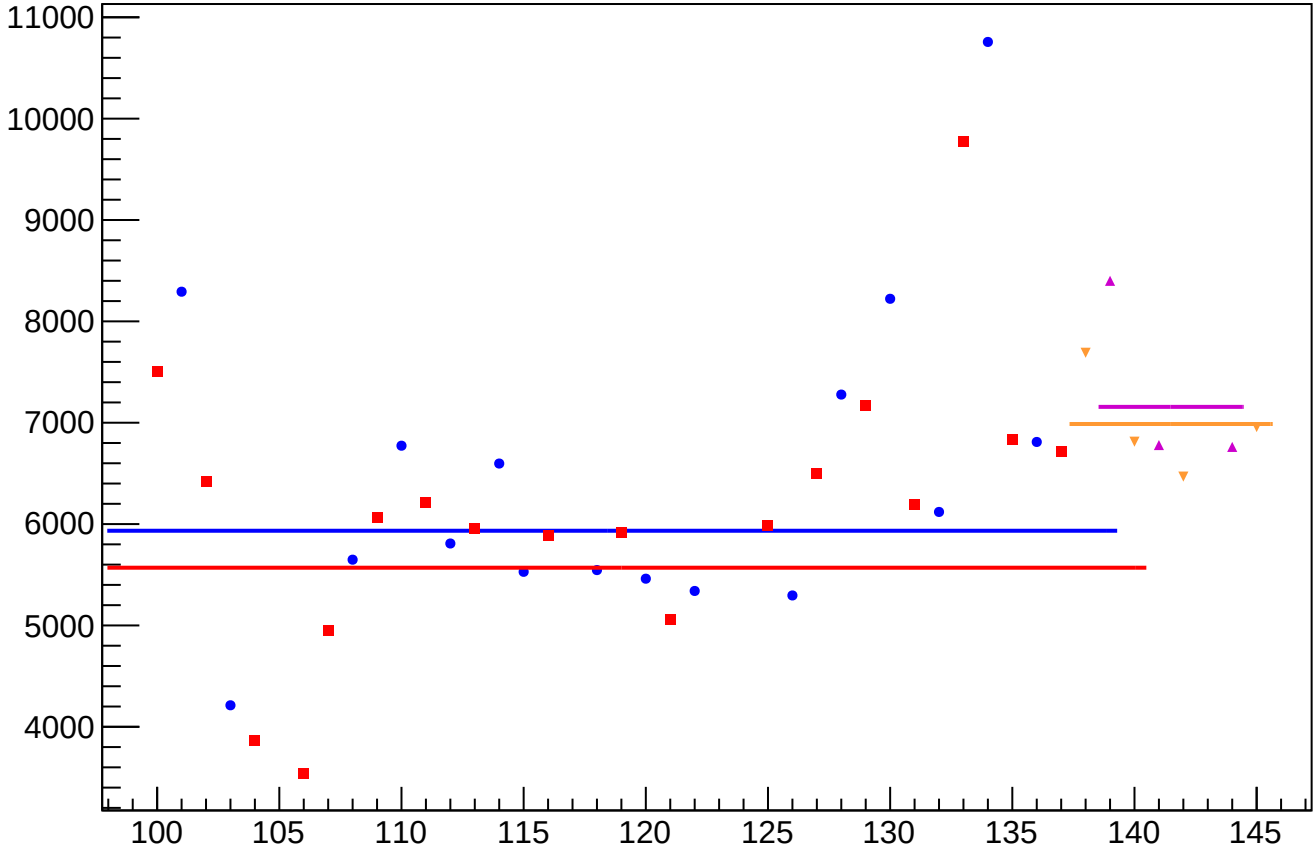
Right: 725.429+/-1552.604 $\chi^2$/NDF: 30.9/33

In: 1156.439+/-2018.014 $\chi^2$/NDF:15.2/18

Out: -2226.889+/-1897.263 $\chi^2$/NDF:23.2/21

All: -639.471+/-1382.286 $\chi^2$/NDF: 39.9/40

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 5934.209+/-1.601 $\chi^2$/NDF: 653082.9/15

Left Out: 6987.416+/-2.936 $\chi^2$/NDF:19550.8/3

Right Out: 5569.606+/-1.508 $\chi^2$/NDF: 724048.8/17

Left In: 7156.417+/-3.146 $\chi^2$/NDF:48485.4/2

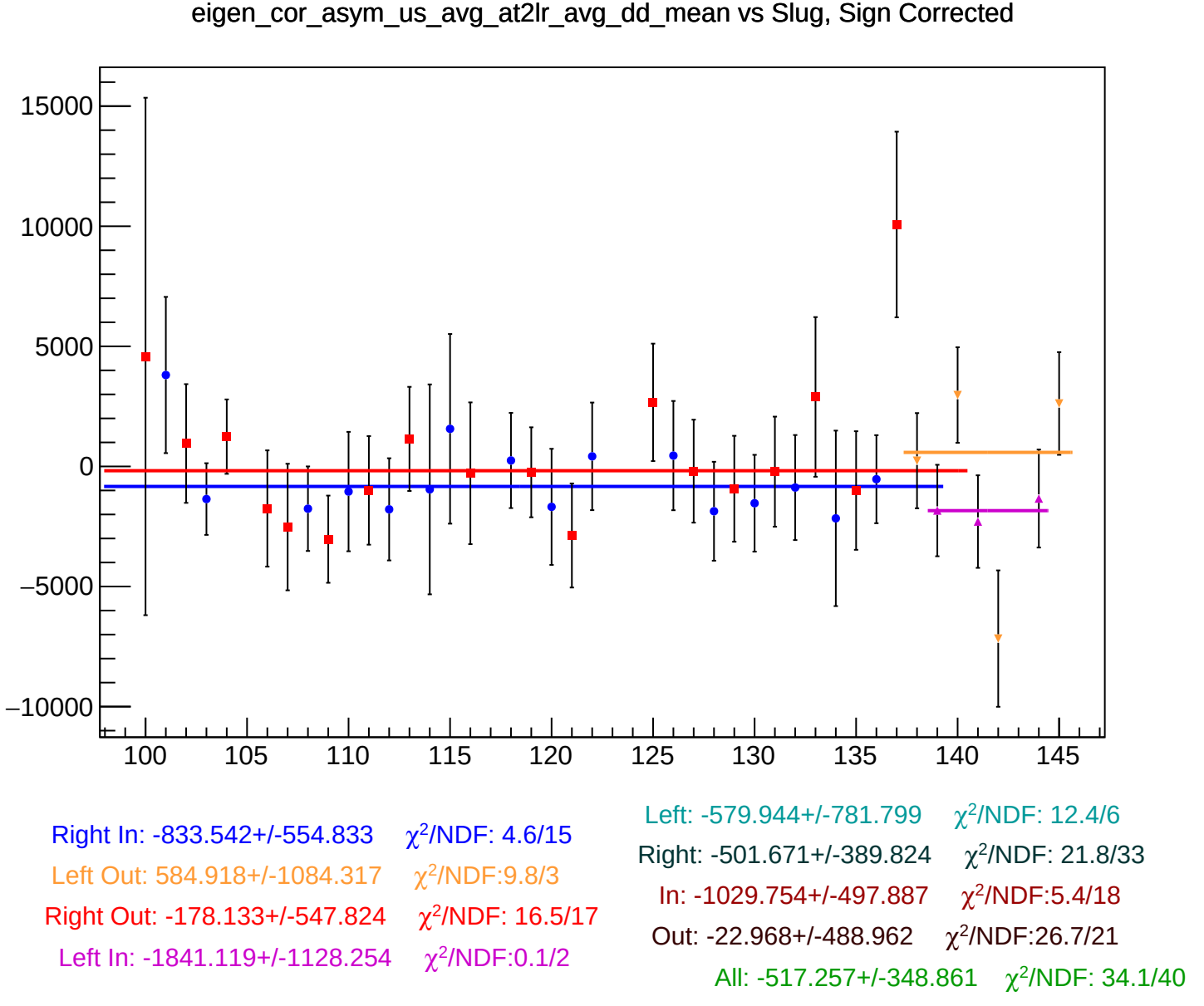
Left: 7066.066+/-2.146 $\chi^2$/NDF: 69578.6/6

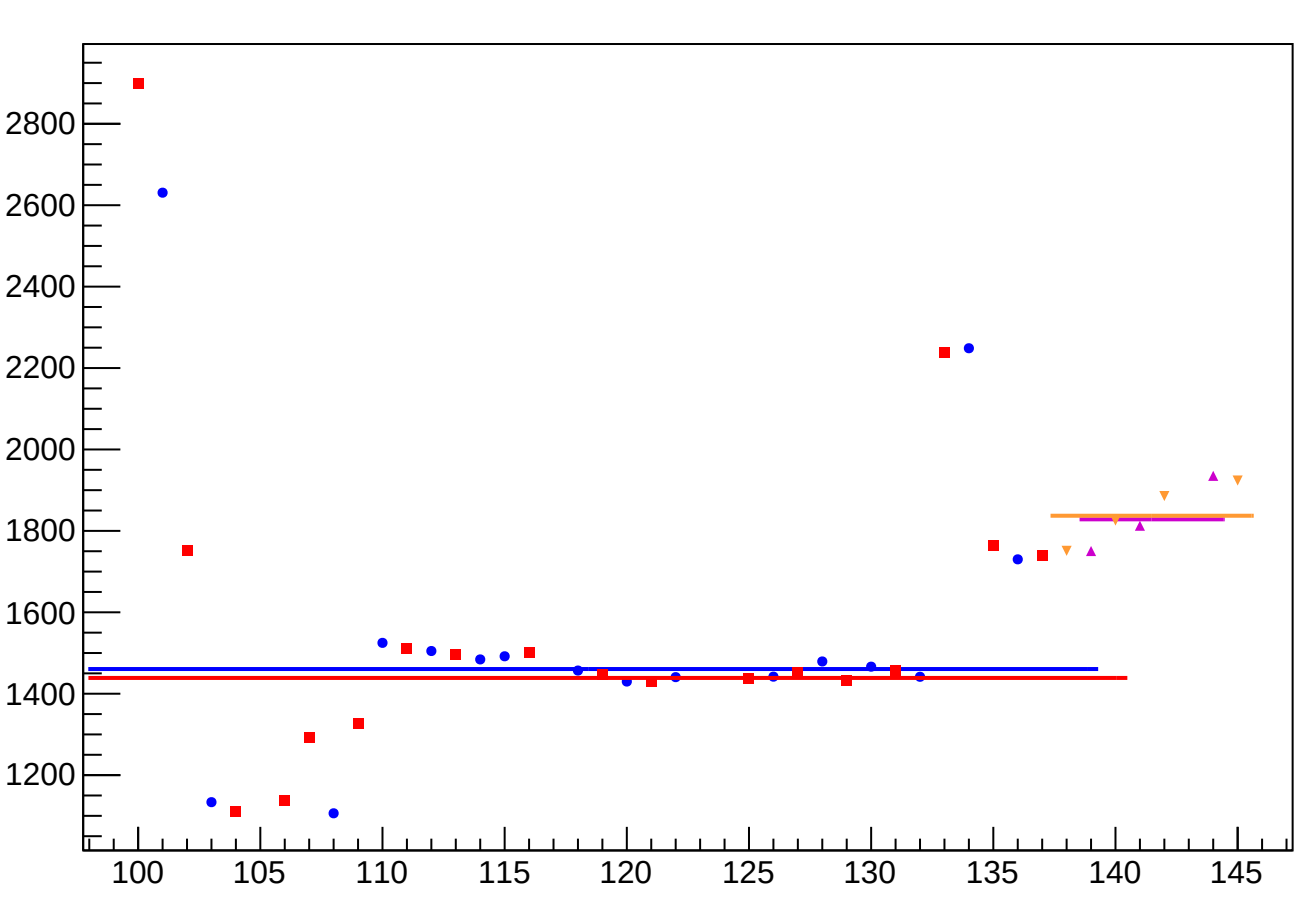
Right: 5741.037+/-1.098 $\chi^2$/NDF: 1404606.9/33

In: 6185.592+/-1.427 $\chi^2$/NDF:821424.0/18

Out: 5865.719+/-1.342 $\chi^2$/NDF:928146.8/21

All: 6015.799+/-0.977 $\chi^2$/NDF: 1776244.2/40


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -833.542+/-554.833 χ²/NDF: 4.6/15
Left Out: 584.918+/-1084.317 χ²/NDF:9.8/3
Right Out: -178.133+/-547.824 χ²/NDF: 16.5/17
Left In: -1841.119+/-1128.254 χ²/NDF:0.1/2
Left: -579.944+/-781.799 χ²/NDF: 12.4/6
Right: -501.671+/-389.824 χ²/NDF: 21.8/33
In: -1029.754+/-497.887 χ²/NDF:5.4/18
Out: -22.968+/-488.962 χ²/NDF:26.7/21
All: -517.257+/-348.861 χ²/NDF: 34.1/40




Right In: 1460.653+/-0.392 $\chi^2$/NDF: 575736.3/15

Left Out: 1837.223+/-0.767 $\chi^2$/NDF:7709.9/3

Right Out: 1438.764+/-0.386 $\chi^2$/NDF: 373375.6/17

Left In: 1828.351+/-0.798 $\chi^2$/NDF:8964.3/2

Left: 1832.963+/-0.553 $\chi^2$/NDF: 16738.5/6

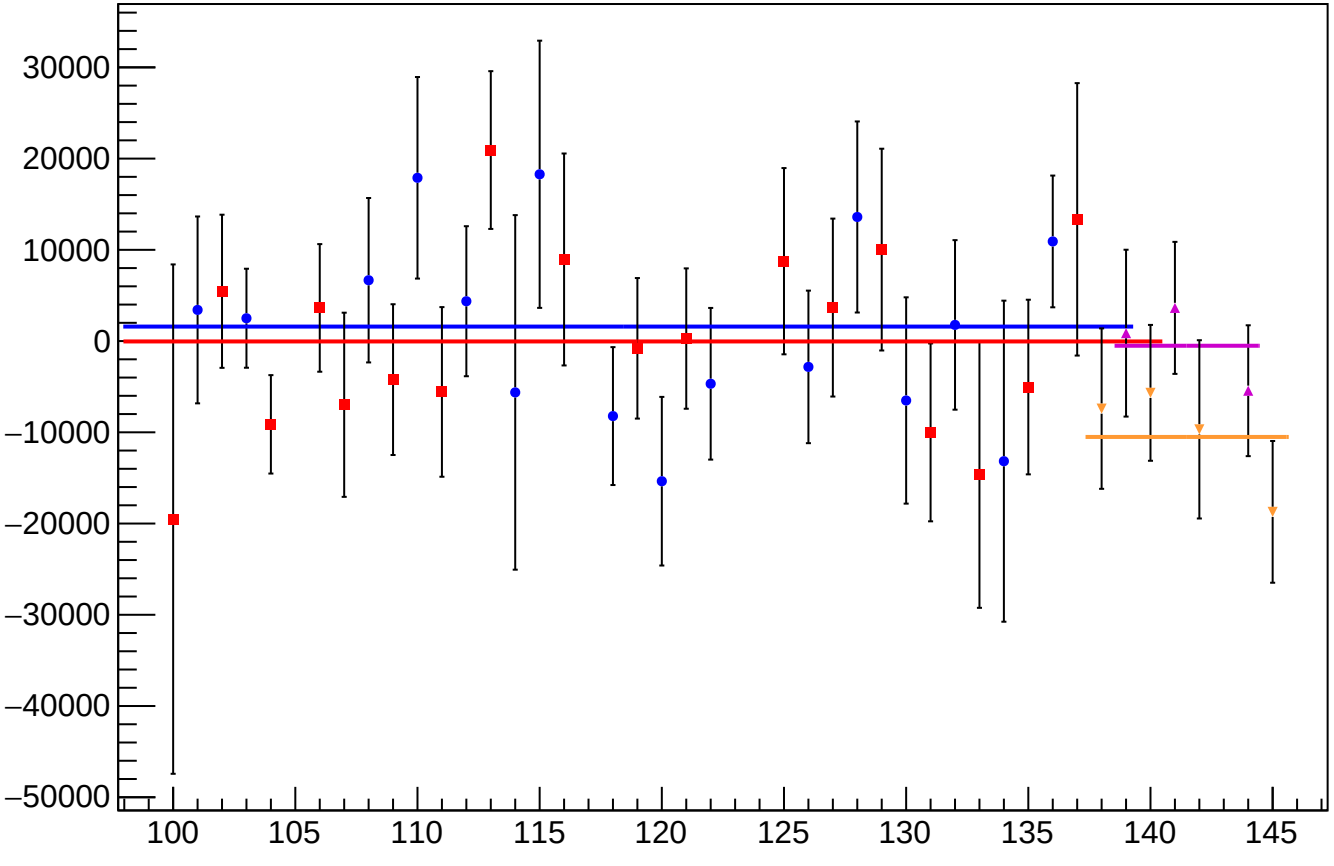
Right: 1449.544+/-0.275 $\chi^2$/NDF: 950691.7/33

In: 1532.258+/-0.352 $\chi^2$/NDF:755755.4/18

Out: 1519.494+/-0.345 $\chi^2$/NDF:596441.8/21

All: 1525.749+/-0.246 $\chi^2$/NDF: 1352867.4/40

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 1588.655+/-2264.260 $\chi^2$/NDF: 14.2/15

Left Out: -10508.558+/-4151.530 $\chi^2$/NDF:1.7/3

Right Out: -40.643+/-2133.039 $\chi^2$/NDF: 16.5/17

Left In: -512.751+/-4449.682 $\chi^2$/NDF:0.8/2

Left: -5856.733+/-3035.510 $\chi^2$/NDF: 5.2/6

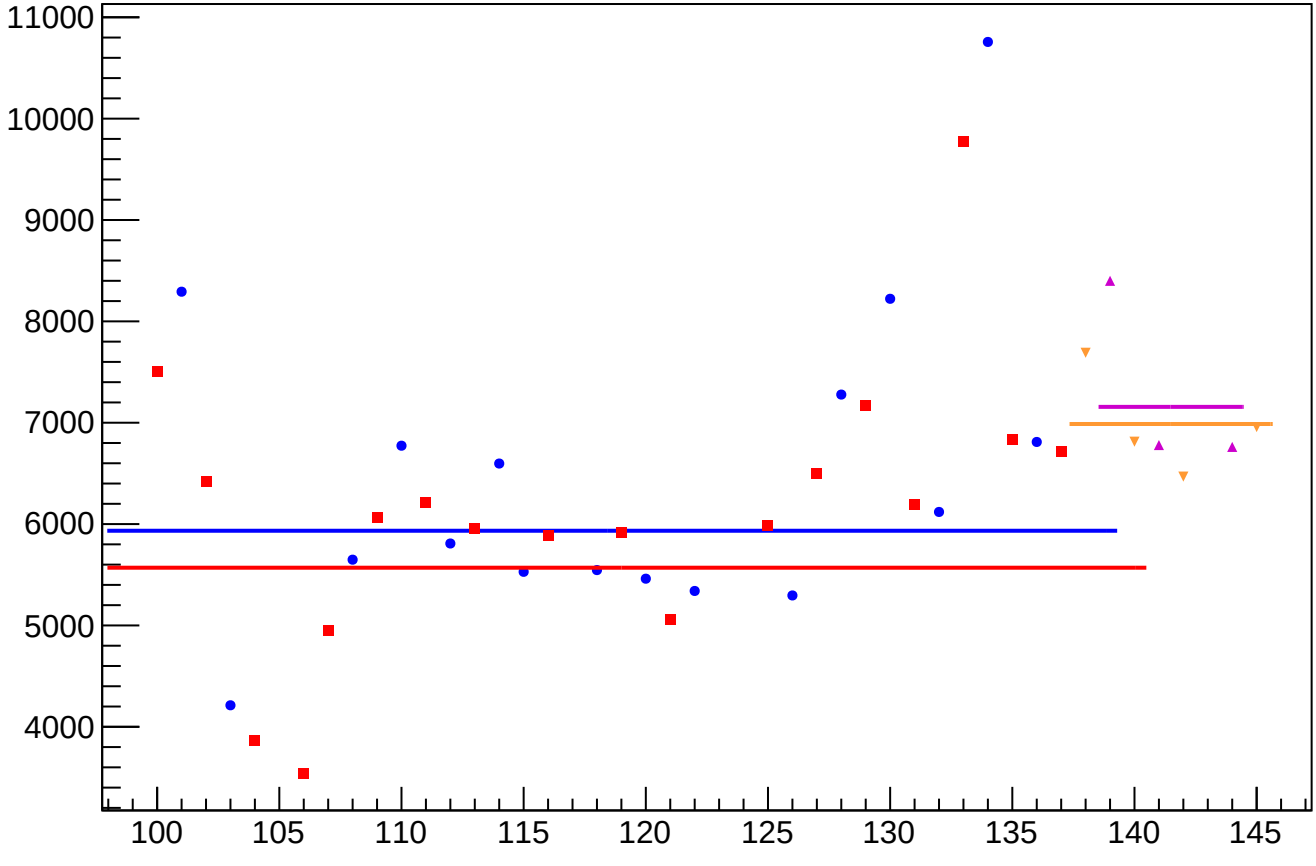
Right: 725.429+/-1552.604 $\chi^2$/NDF: 30.9/33

In: 1156.439+/-2018.014 $\chi^2$/NDF:15.2/18

Out: -2226.889+/-1897.263 $\chi^2$/NDF:23.2/21

All: -639.471+/-1382.286 $\chi^2$/NDF: 39.9/40

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 5934.209+/-1.601 $\chi^2$/NDF: 653082.9/15

Left Out: 6987.416+/-2.936 $\chi^2$/NDF:19550.8/3

Right Out: 5569.606+/-1.508 $\chi^2$/NDF: 724048.8/17

Left In: 7156.417+/-3.146 $\chi^2$/NDF:48485.4/2

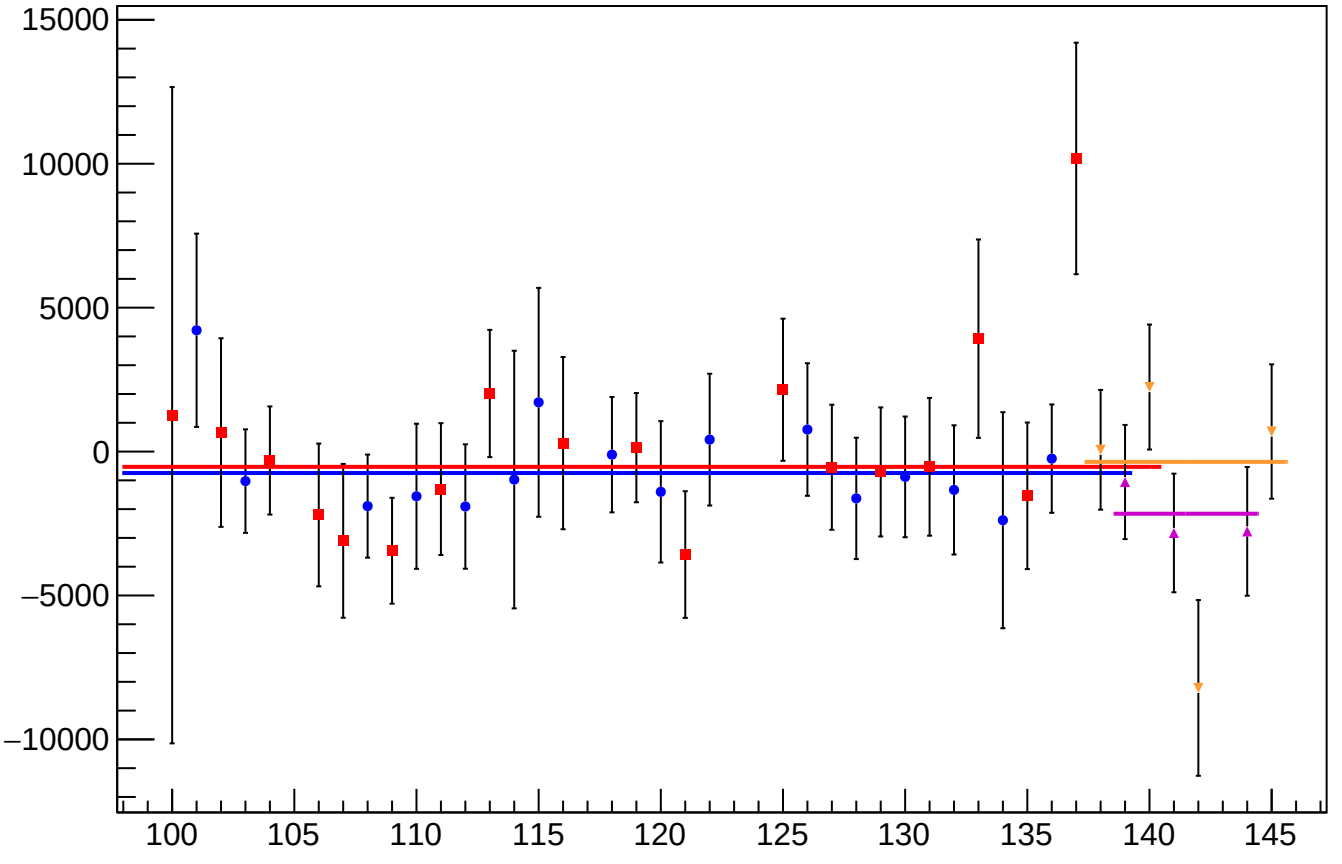
Left: 7066.066+/-2.146 $\chi^2$/NDF: 69578.6/6

Right: 5741.037+/-1.098 $\chi^2$/NDF: 1404606.9/33

In: 6185.592+/-1.427 $\chi^2$/NDF:821424.0/18

Out: 5865.719+/-1.342 $\chi^2$/NDF:928146.8/21

All: 6015.799+/-0.977 $\chi^2$/NDF: 1776244.2/40




Right In: -745.914+/-578.071 $\chi^2$/NDF: 4.8/15

Left Out: -358.668+/-1167.135 $\chi^2$/NDF:8.3/3

Right Out: -531.292+/-575.115 $\chi^2$/NDF: 17.7/17

Left In: -2159.530+/-1203.907 $\chi^2$/NDF:0.5/2

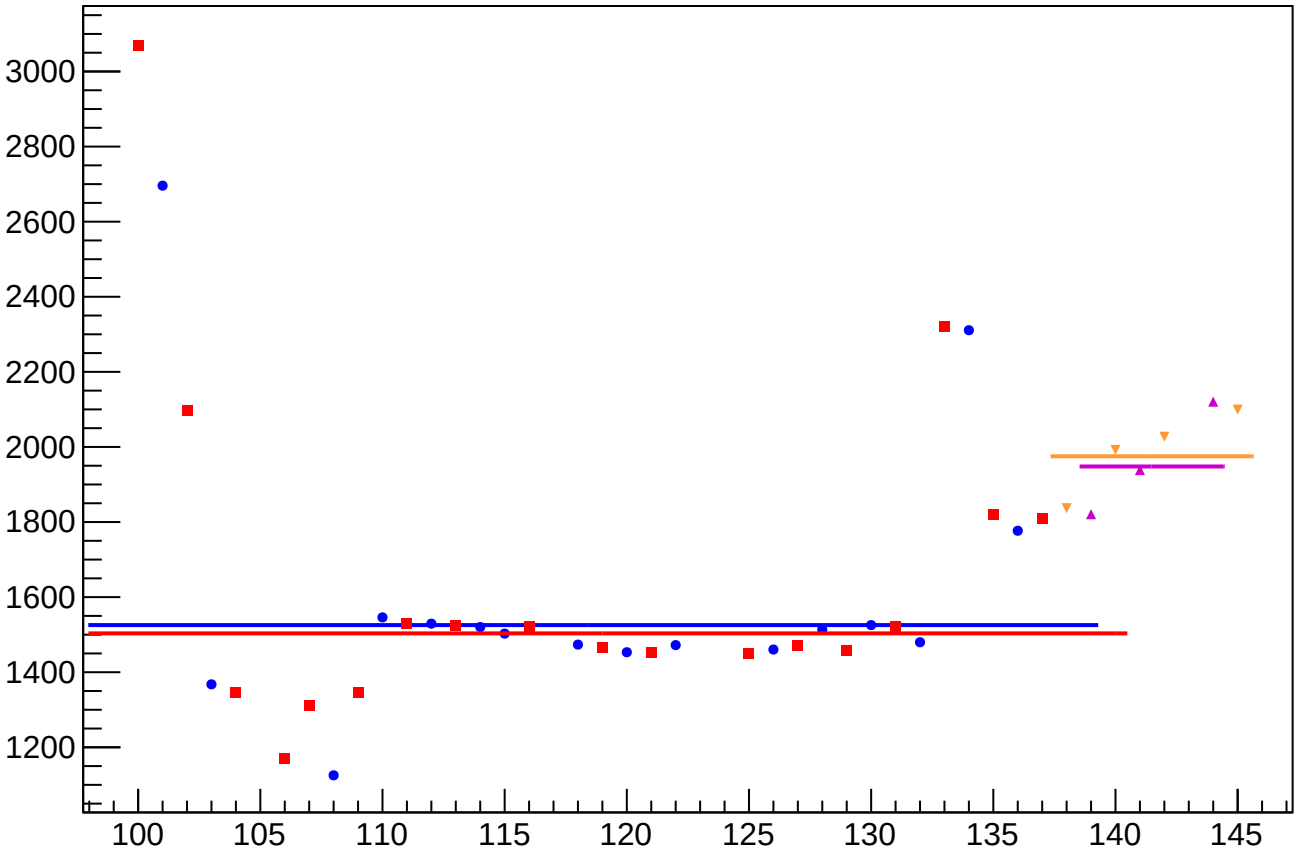
Left: -1231.176+/-837.988 $\chi^2$/NDF: 9.9/6

Right: -638.053+/-407.709 $\chi^2$/NDF: 22.6/33

In: -1010.768+/-521.111 $\chi^2$/NDF:6.4/18

Out: -497.566+/-515.884 $\chi^2$/NDF:26.0/21

All: -751.580+/-366.619 $\chi^2$/NDF: 32.9/40




Right In: 1525.536+/-0.409 $\chi^2$/NDF: 488328.2/15

Left Out: 1975.095+/-0.825 $\chi^2$/NDF:15207.6/3

Right Out: 1503.434+/-0.407 $\chi^2$/NDF: 338507.3/17

Left In: 1947.979+/-0.851 $\chi^2$/NDF:20189.9/2

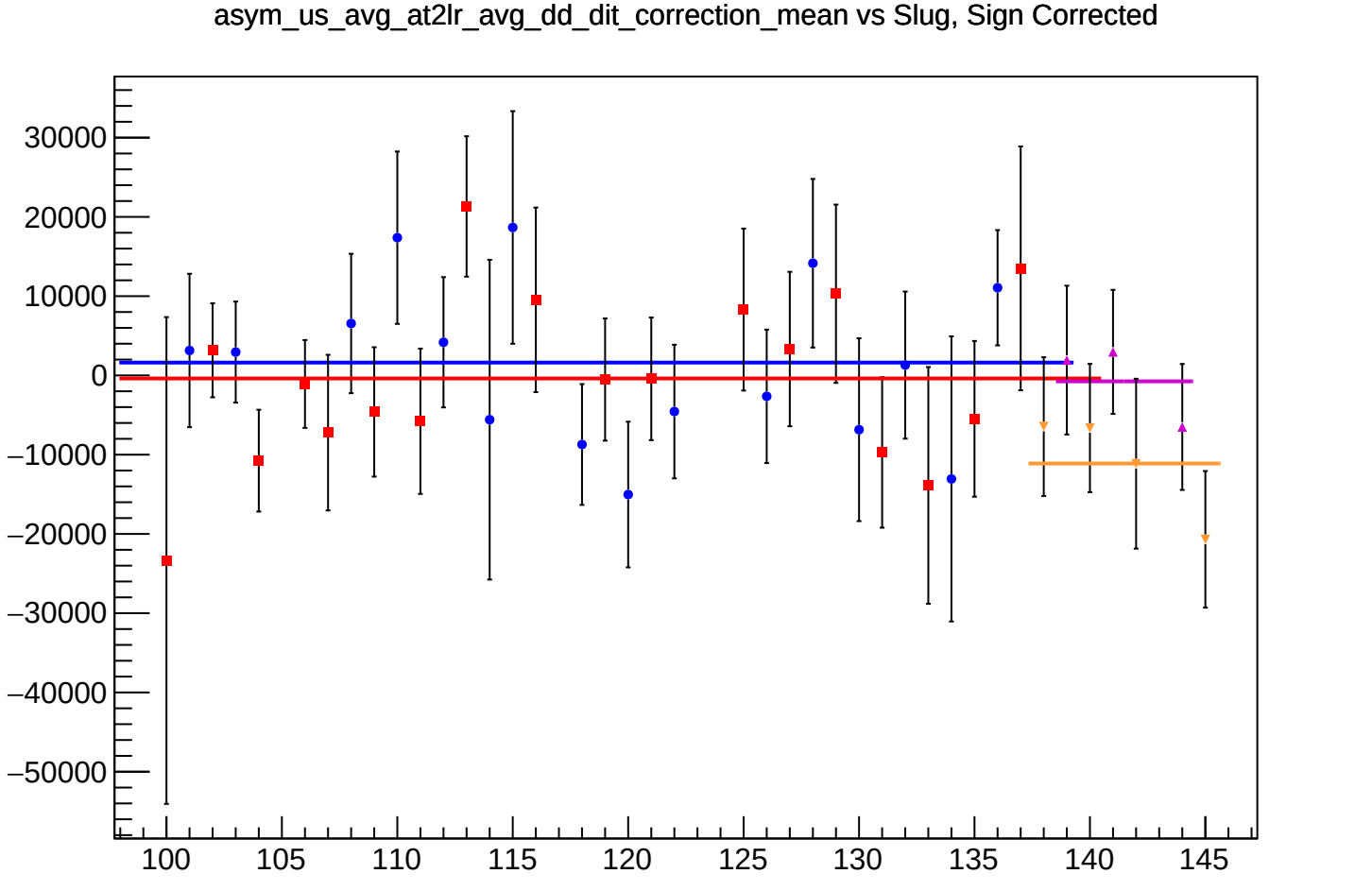
Left: 1961.957+/-0.593 $\chi^2$/NDF: 35920.4/6

Right: 1514.425+/-0.288 $\chi^2$/NDF: 828305.2/33

In: 1604.684+/-0.368 $\chi^2$/NDF:708632.7/18

Out: 1595.540+/-0.365 $\chi^2$/NDF:616554.4/21

All: 1600.065+/-0.259 $\chi^2$/NDF: 1325498.2/40




Right In: 1620.058+/-2320.032 $\chi^2$/NDF: 14.3/15

Left Out: -11113.752+/-4450.007 $\chi^2$/NDF:1.8/3

Right Out: -385.942+/-2060.867 $\chi^2$/NDF: 16.0/17

Left In: -747.226+/-4793.587 $\chi^2$/NDF:0.8/2

Left: -6315.277+/-3261.337 $\chi^2$/NDF: 5.2/6

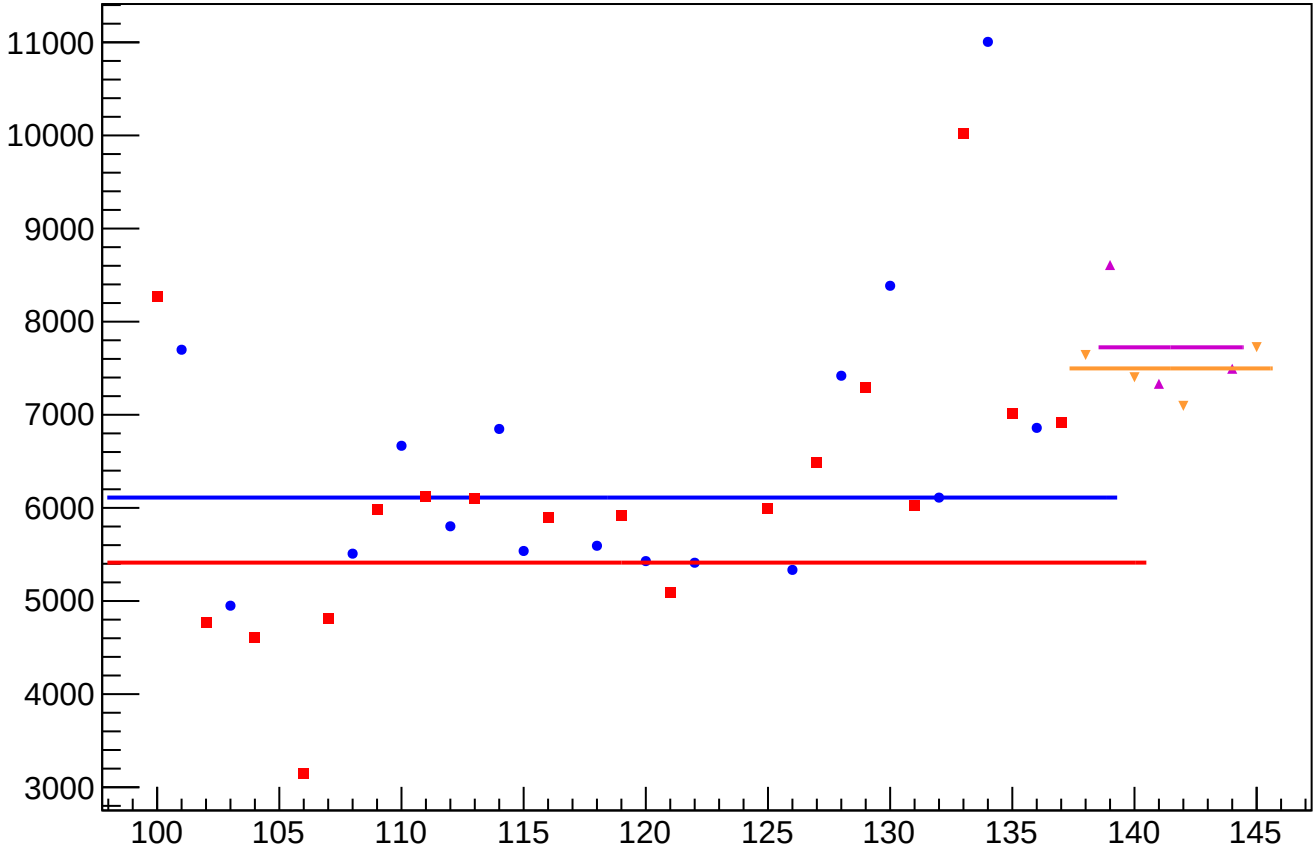
Right: 498.801+/-1540.768 $\chi^2$/NDF: 30.7/33

In: 1170.778+/-2088.304 $\chi^2$/NDF:15.3/18

Out: -2280.469+/-1870.060 $\chi^2$/NDF:22.6/21

All: -744.553+/-1393.123 $\chi^2$/NDF: 39.4/40

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 6111.037+/-1.641 $\chi^2$/NDF: 471661.4/15

Left Out: 7497.856+/-3.147 $\chi^2$/NDF:5035.2/3

Right Out: 5412.276+/-1.457 $\chi^2$/NDF: 821530.3/17

Left In: 7724.514+/-3.390 $\chi^2$/NDF:24425.5/2

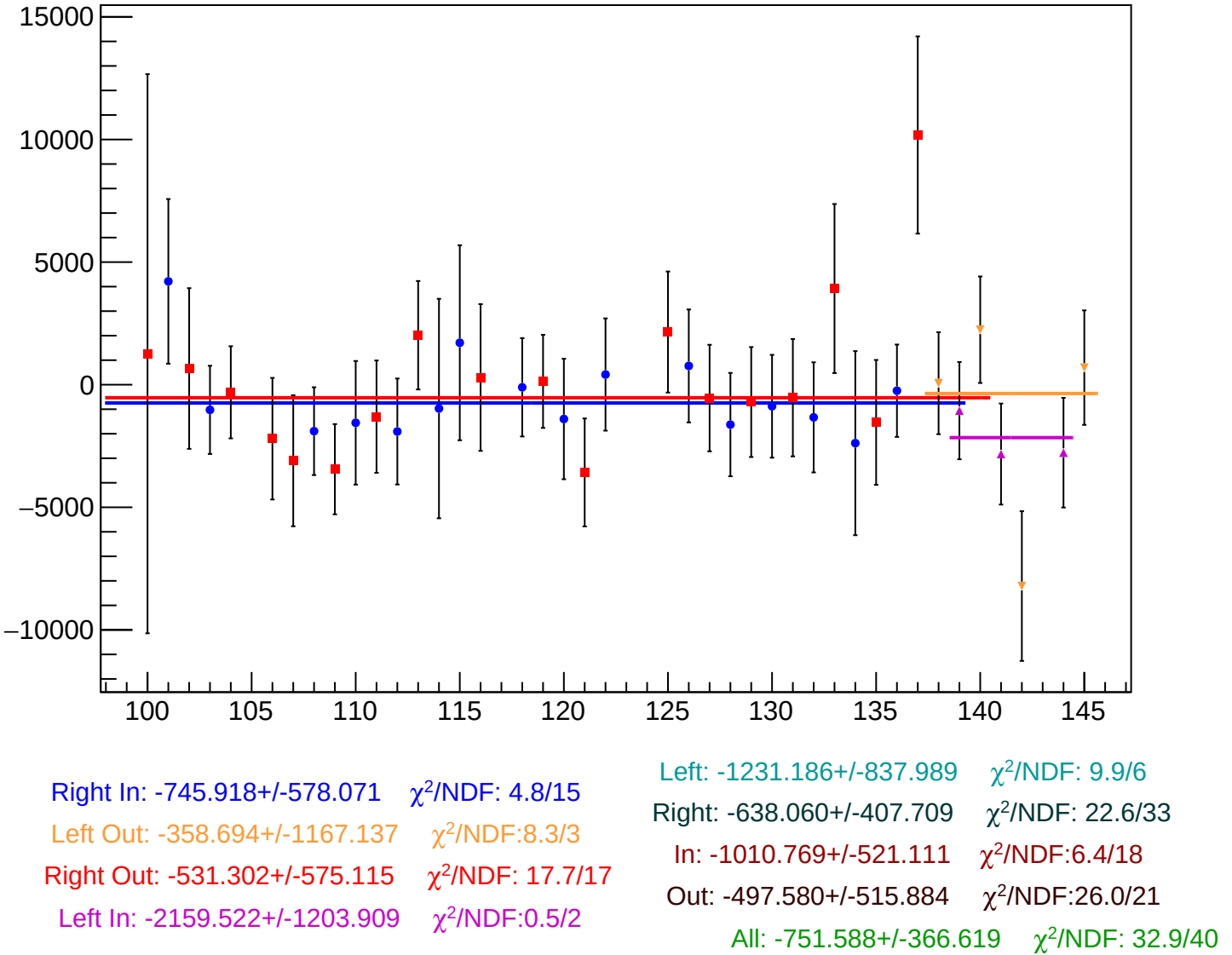
Left: 7602.772+/-2.306 $\chi^2$/NDF: 31862.5/6

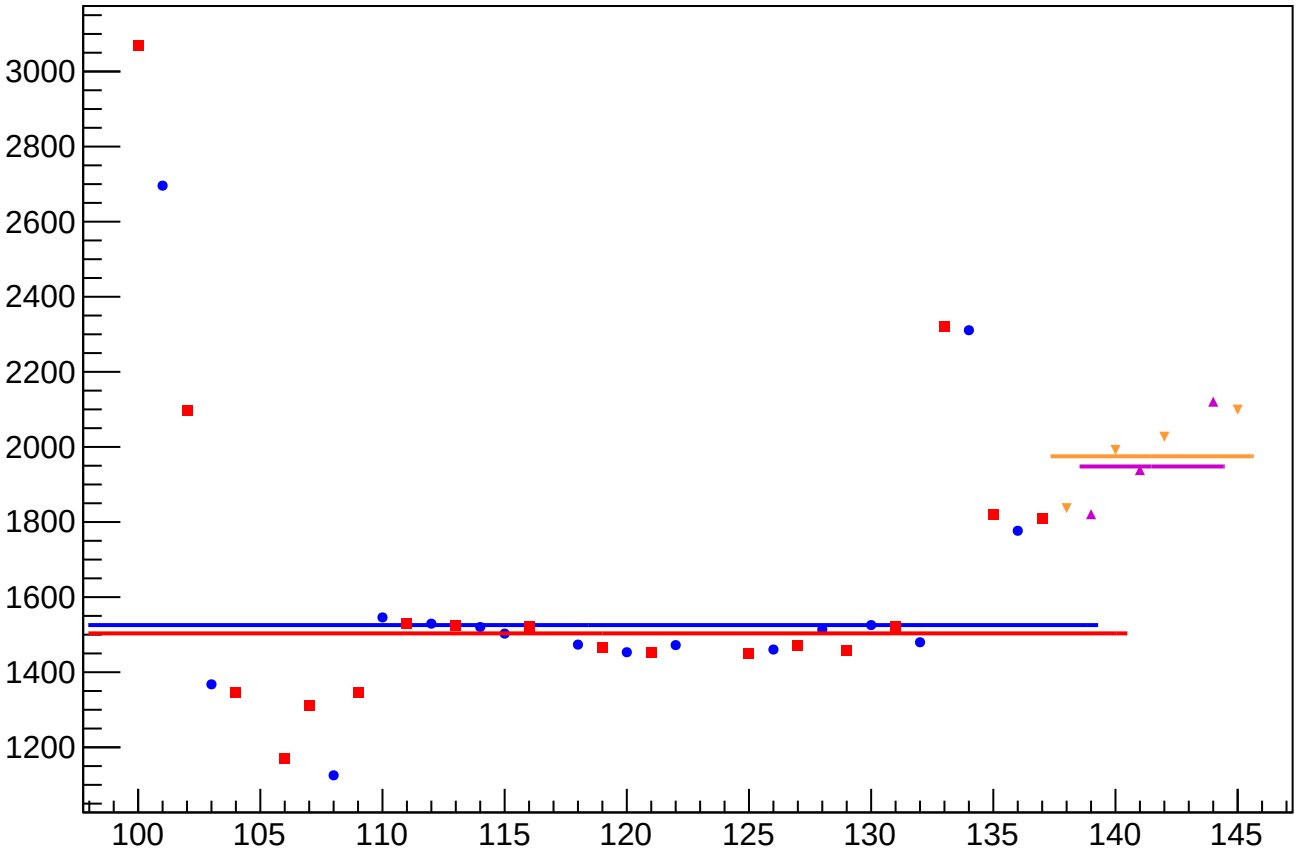
Right: 5720.463+/-1.089 $\chi^2$/NDF: 1394599.9/33

In: 6417.253+/-1.477 $\chi^2$/NDF:679670.5/18

Out: 5780.589+/-1.322 $\chi^2$/NDF:1188286.1/21

All: 6063.925+/-0.985 $\chi^2$/NDF: 1971121.6/40


eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -745.918+/-578.071 χ²/NDF: 4.8/15
Left Out: -358.694+/-1167.137 χ²/NDF:8.3/3
Right Out: -531.302+/-575.115 χ²/NDF: 17.7/17
Left In: -2159.522+/-1203.909 χ²/NDF:0.5/2
Left: -1231.186+/-837.989 χ²/NDF: 9.9/6
Right: -638.060+/-407.709 χ²/NDF: 22.6/33
In: -1010.769+/-521.111 χ²/NDF:6.4/18
Out: -497.580+/-515.884 χ²/NDF:26.0/21
All: -751.588+/-366.619 χ²/NDF: 32.9/40




Right In: 1525.536+/-0.409 $\chi^2$/NDF: 488327.8/15

Left Out: 1975.097+/-0.825 $\chi^2$/NDF:15208.1/3

Right Out: 1503.435+/-0.407 $\chi^2$/NDF: 338507.7/17

Left In: 1947.981+/-0.851 $\chi^2$/NDF:20189.9/2

Left: 1961.960+/-0.593 $\chi^2$/NDF: 35921.0/6

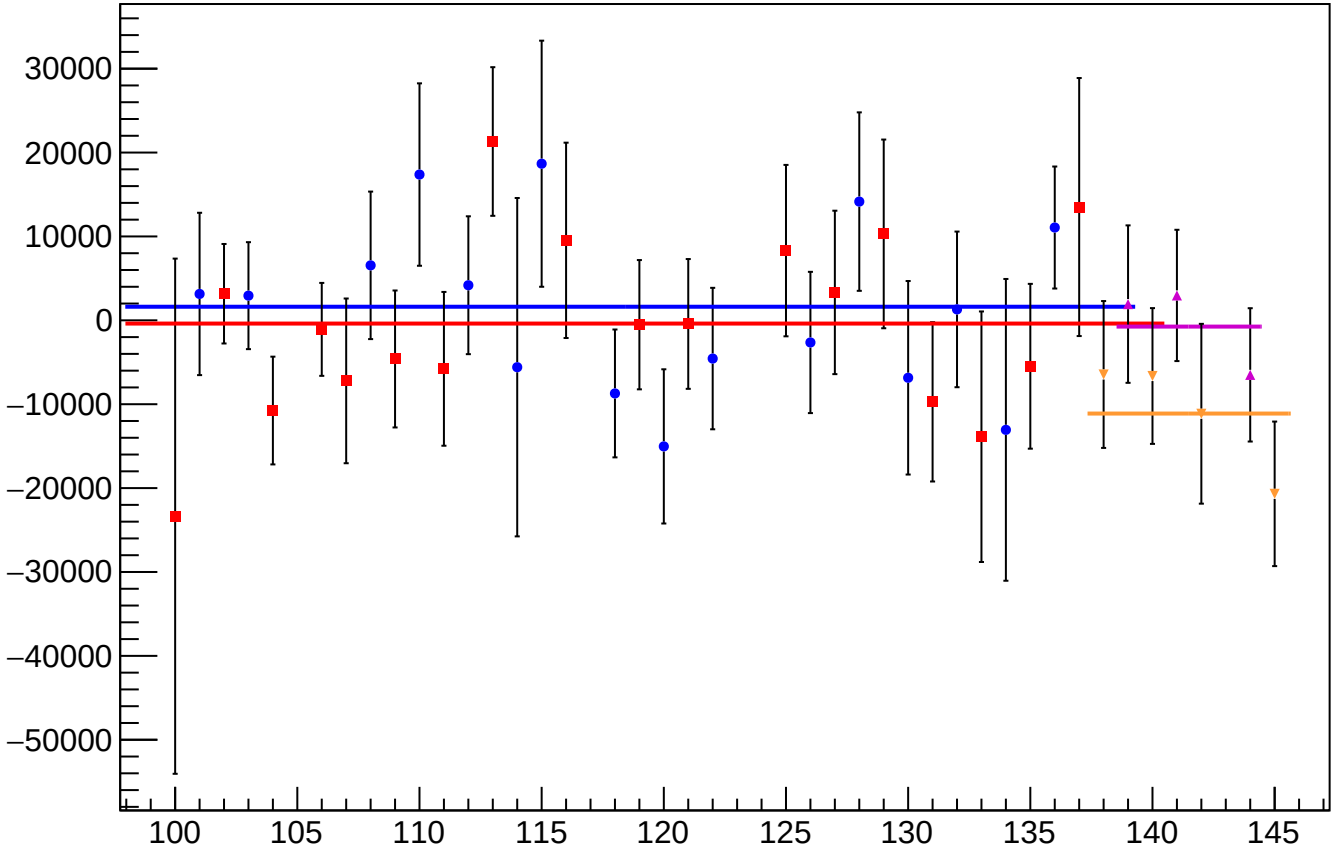
Right: 1514.425+/-0.288 $\chi^2$/NDF: 828305.2/33

In: 1604.685+/-0.368 $\chi^2$/NDF:708634.2/18

Out: 1595.541+/-0.365 $\chi^2$/NDF:616557.4/21

All: 1600.066+/-0.259 $\chi^2$/NDF: 1325502.7/40

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 1620.038+/-2320.027 $\chi^2$/NDF: 14.3/15

Left Out: -11113.782+/-4450.015 $\chi^2$/NDF:1.8/3

Right Out: -385.948+/-2060.863 $\chi^2$/NDF: 16.0/17

Left In: -747.219+/-4793.594 $\chi^2$/NDF:0.8/2

Left: -6315.288+/-3261.342 $\chi^2$/NDF: 5.2/6

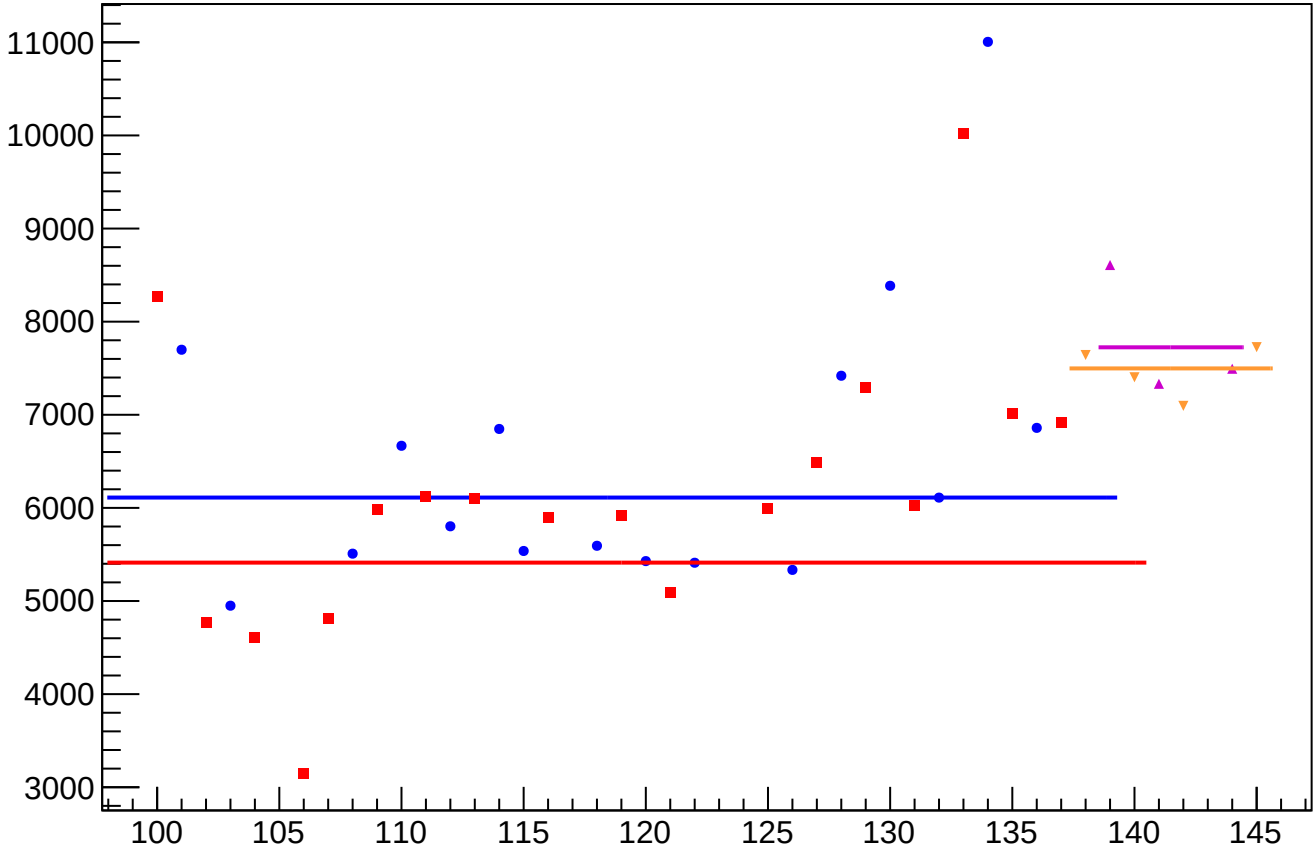
Right: 498.789+/-1540.764 $\chi^2$/NDF: 30.7/33

In: 1170.766+/-2088.301 $\chi^2$/NDF:15.3/18

Out: -2280.468+/-1870.058 $\chi^2$/NDF:22.6/21

All: -744.557+/-1393.121 $\chi^2$/NDF: 39.4/40

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: 7497.869+/-3.147 $\chi^2$/NDF:5035.4/3

Right Out: 5412.265+/-1.457 $\chi^2$/NDF: 821530.5/17

Left In: 7724.525+/-3.390 $\chi^2$/NDF:24426.1/2

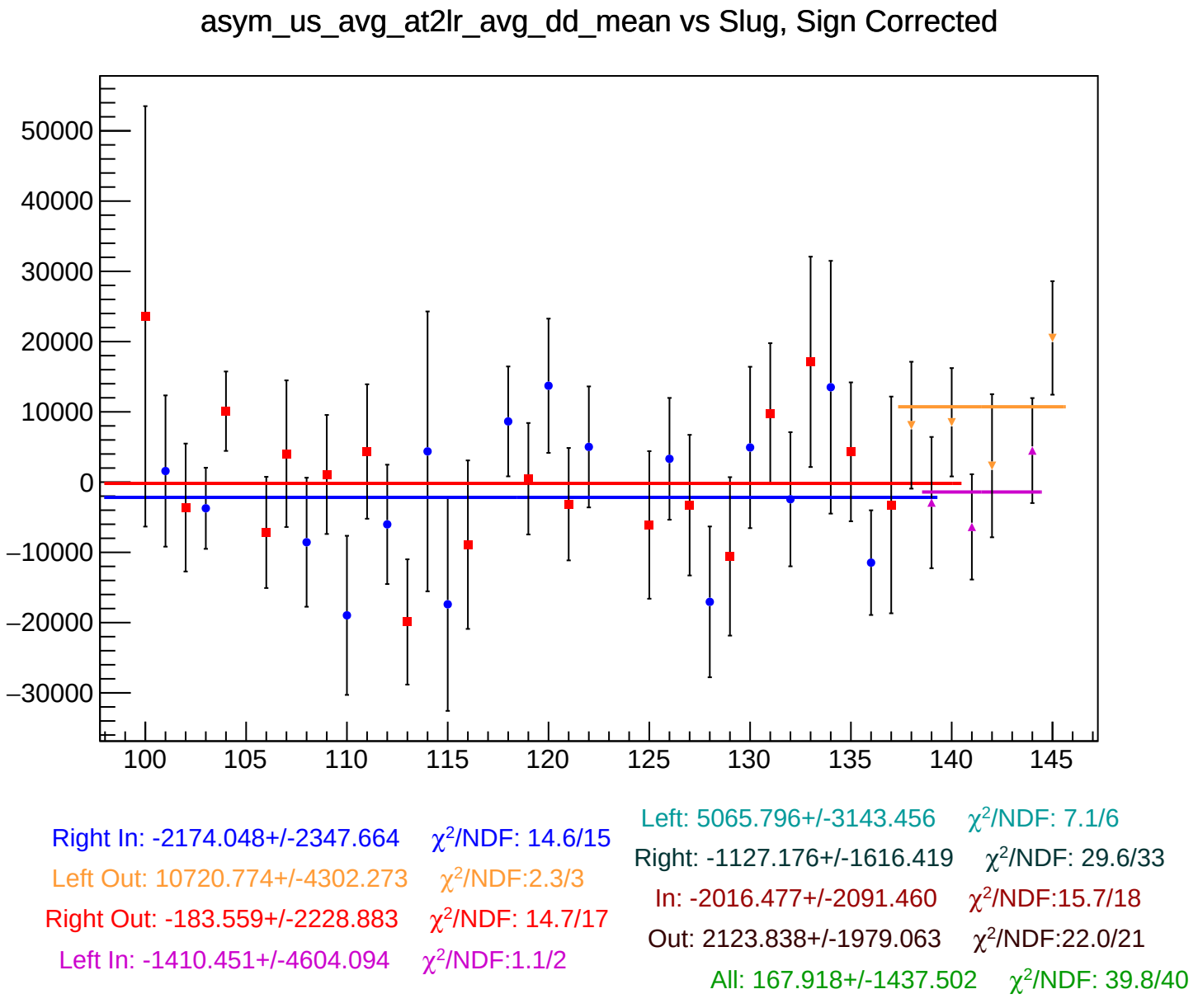
Left: 7602.784+/-2.306 $\chi^2$/NDF: 31863.2/6

Right: 5720.451+/-1.089 $\chi^2$/NDF: 1394602.1/33

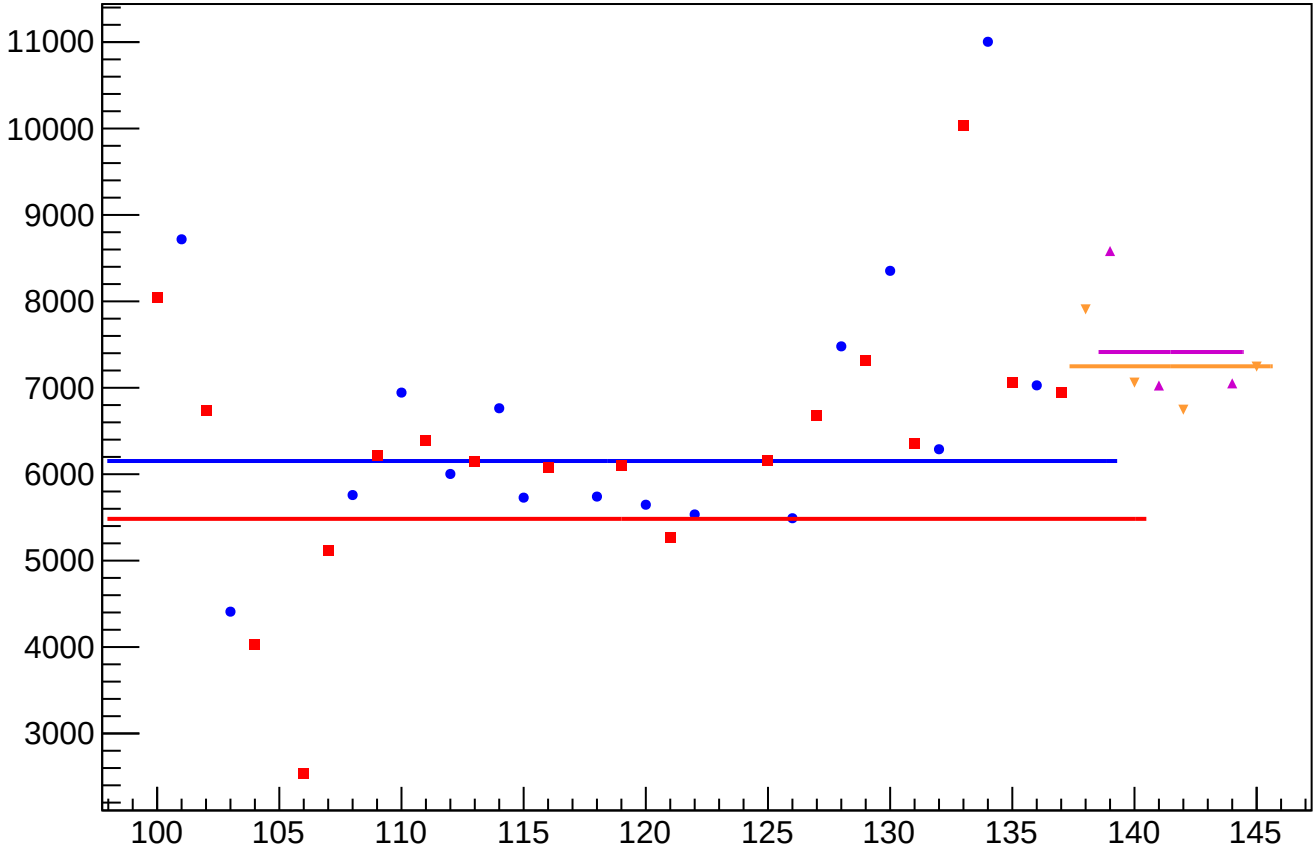
In: 6417.243+/-1.477 $\chi^2$/NDF:679678.6/18

Out: 5780.579+/-1.322 $\chi^2$/NDF:1188294.3/21

All: 6063.915+/-0.985 $\chi^2$/NDF: 1971137.7/40


asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -2174.048+/-2347.664 χ²/NDF: 14.6/15
Left Out: 10720.774+/-4302.273 χ²/NDF:2.3/3
Right Out: -183.559+/-2228.883 χ²/NDF: 14.7/17
Left In: -1410.451+/-4604.094 χ²/NDF:1.1/2
Left: 5065.796+/-3143.456 χ²/NDF: 7.1/6
Right: -1127.176+/-1616.419 χ²/NDF: 29.6/33
In: -2016.477+/-2091.460 χ²/NDF:15.7/18
Out: 2123.838+/-1979.063 χ²/NDF:22.0/21
All: 167.918+/-1437.502 χ²/NDF: 39.8/40

# asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected




Right In: 6152.690+/-1.660 $\chi^2$/NDF: 624026.7/15

Left Out: 7248.671+/-3.042 $\chi^2$/NDF:16702.5/3

Right Out: 5483.337+/-1.519 $\chi^2$/NDF: 1148712.9/17

Left In: 7413.895+/-3.256 $\chi^2$/NDF:41356.5/2

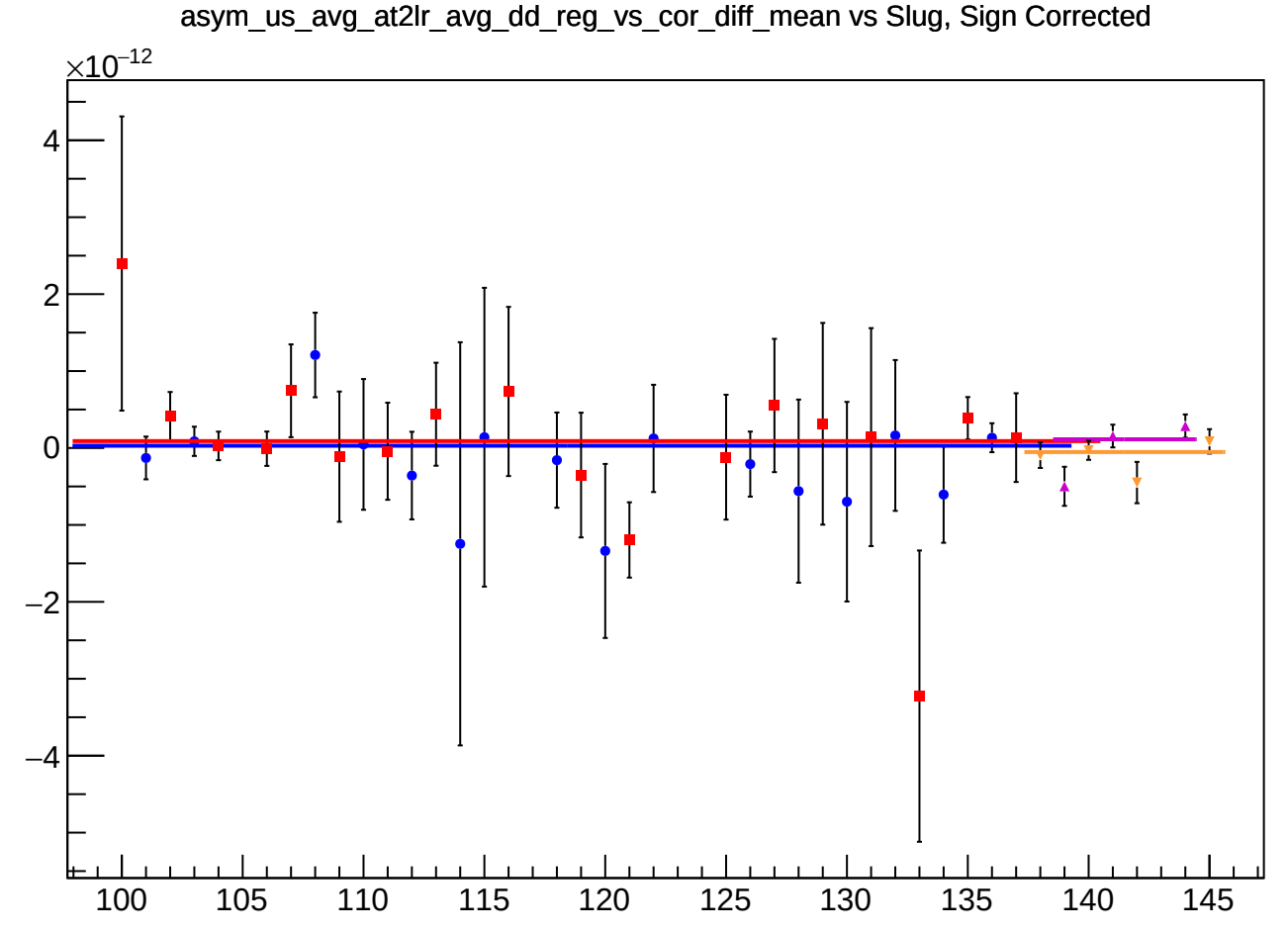
Left: 7325.690+/-2.223 $\chi^2$/NDF: 59434.1/6

Right: 5788.476+/-1.121 $\chi^2$/NDF: 1861205.2/33

In: 6412.941+/-1.479 $\chi^2$/NDF:784491.4/18

Out: 5835.801+/-1.359 $\chi^2$/NDF:1434918.0/21

All: 6100.105+/-1.001 $\chi^2$/NDF: 2301962.3/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.0/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:7.2/2

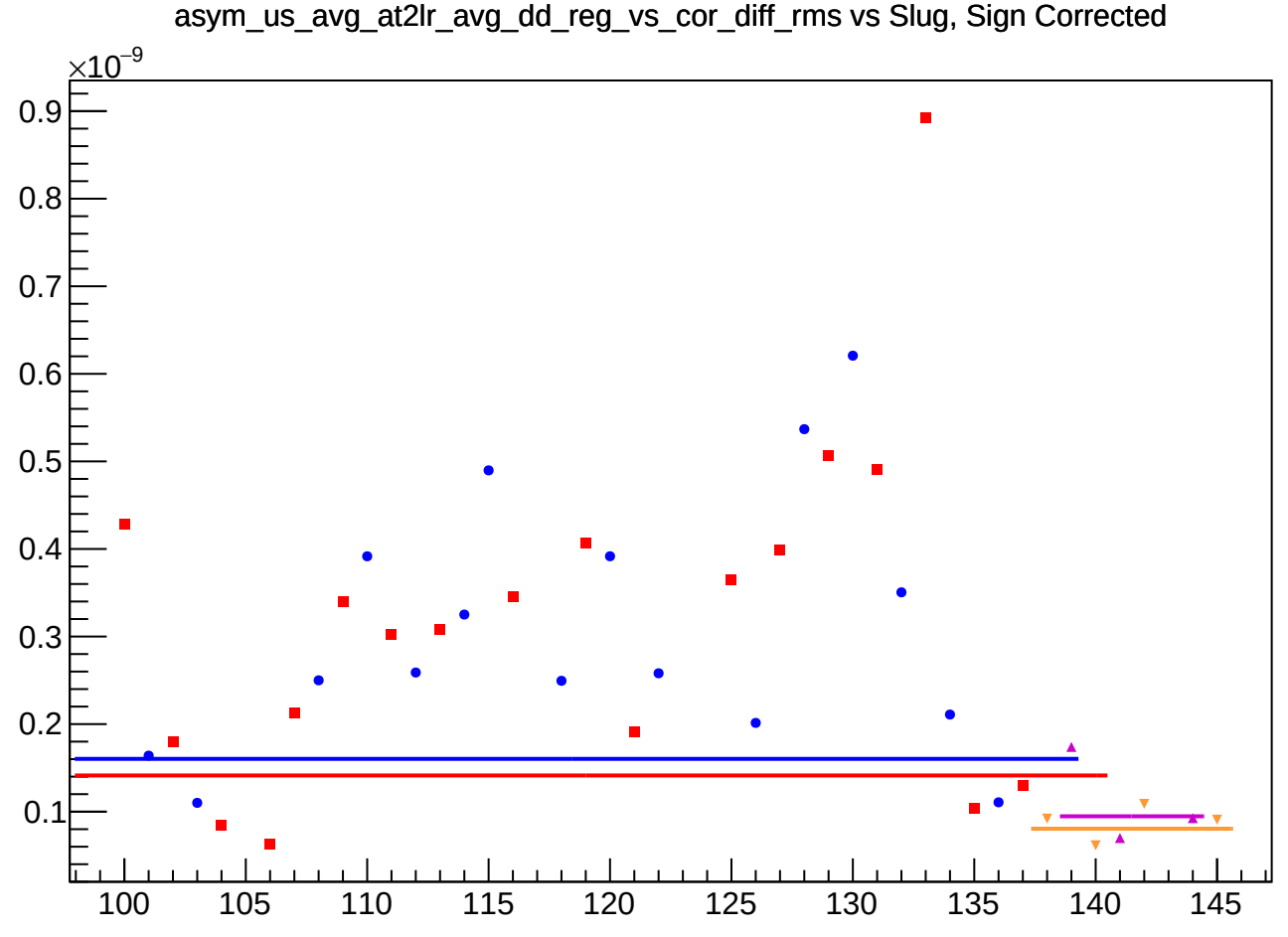
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.9/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:17.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:20.7/21

All: 0.000+/-0.000 $\chi^2$/NDF: 38.3/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1329606.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:86459.7/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2165946.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:251545.6/2

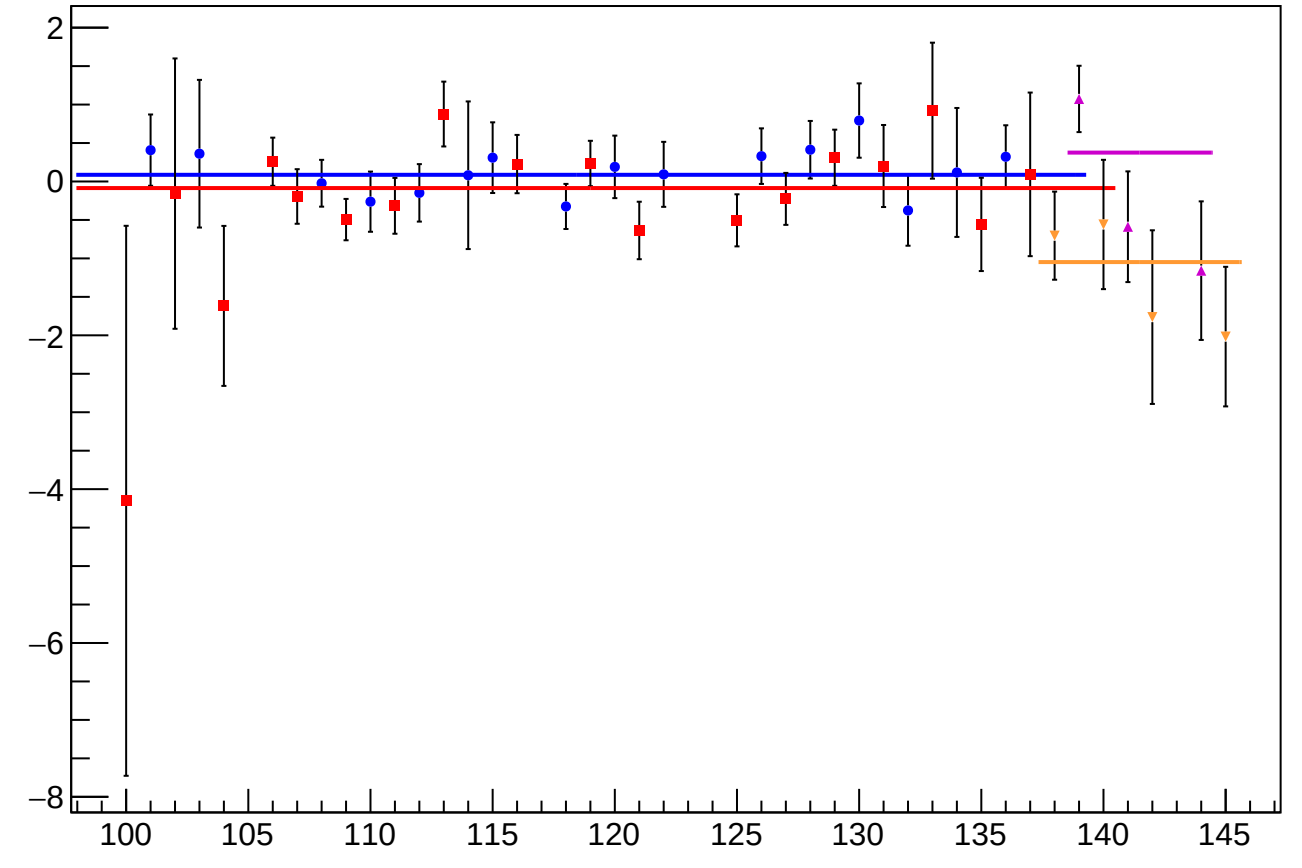
Left: 0.000+/-0.000 $\chi^2$/NDF: 363099.6/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 3529311.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:2005565.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2686733.2/21

All: 0.000+/-0.000 $\chi^2$/NDF: 4796542.1/40




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: -1.048+/-0.393 $\chi^2$/NDF:2.2/3

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.376+/-0.342 $\chi^2$/NDF:7.3/2

Left: -0.238+/-0.258 $\chi^2$/NDF: 17.0/6

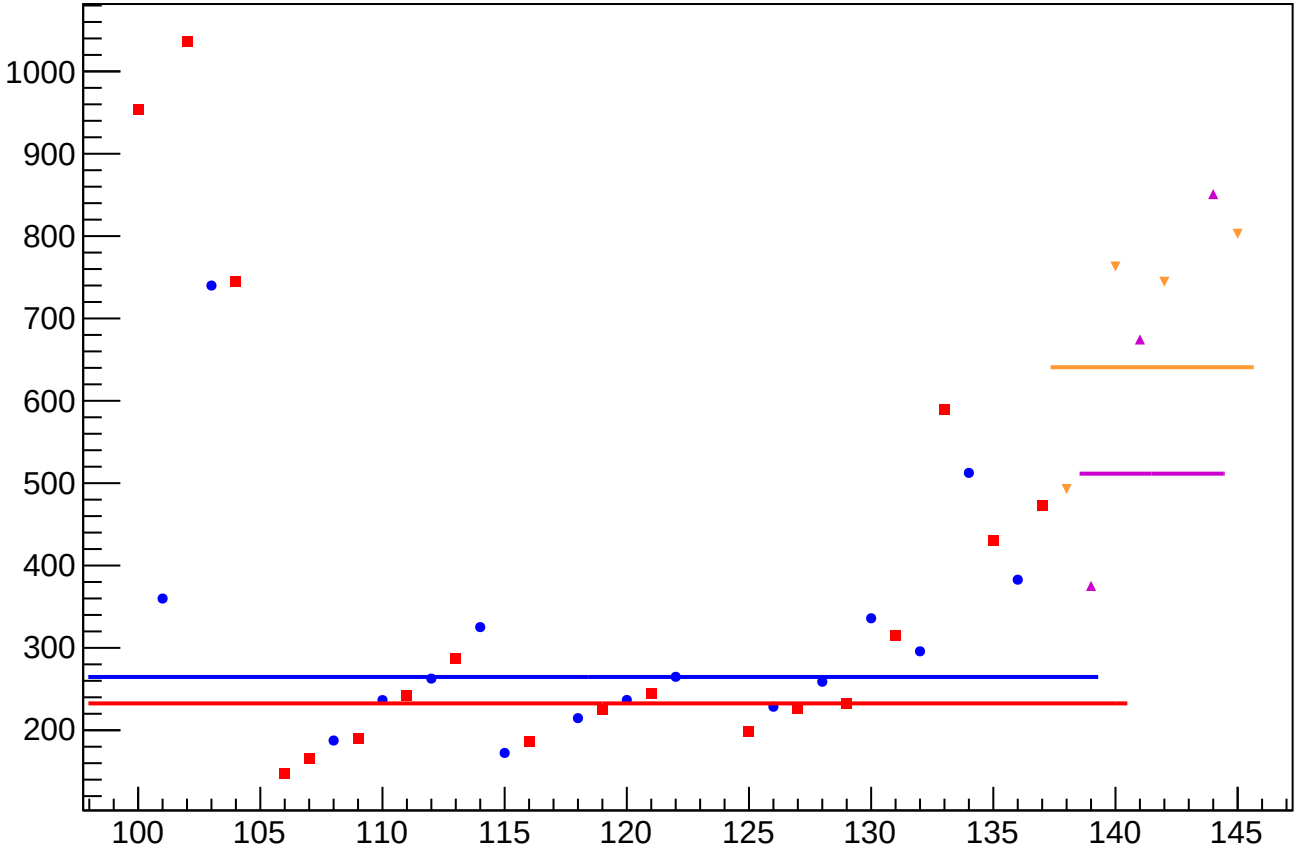
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.112+/-0.100 $\chi^2$/NDF:16.8/18

Out: -0.141+/-0.094 $\chi^2$/NDF:29.7/21

All: -0.022+/-0.069 $\chi^2$/NDF: 49.9/40

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: 640.795+/-0.278 $\chi^2$/NDF:256411.8/3

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032662.7/17

Left In: 511.550+/-0.242 $\chi^2$/NDF:586182.8/2

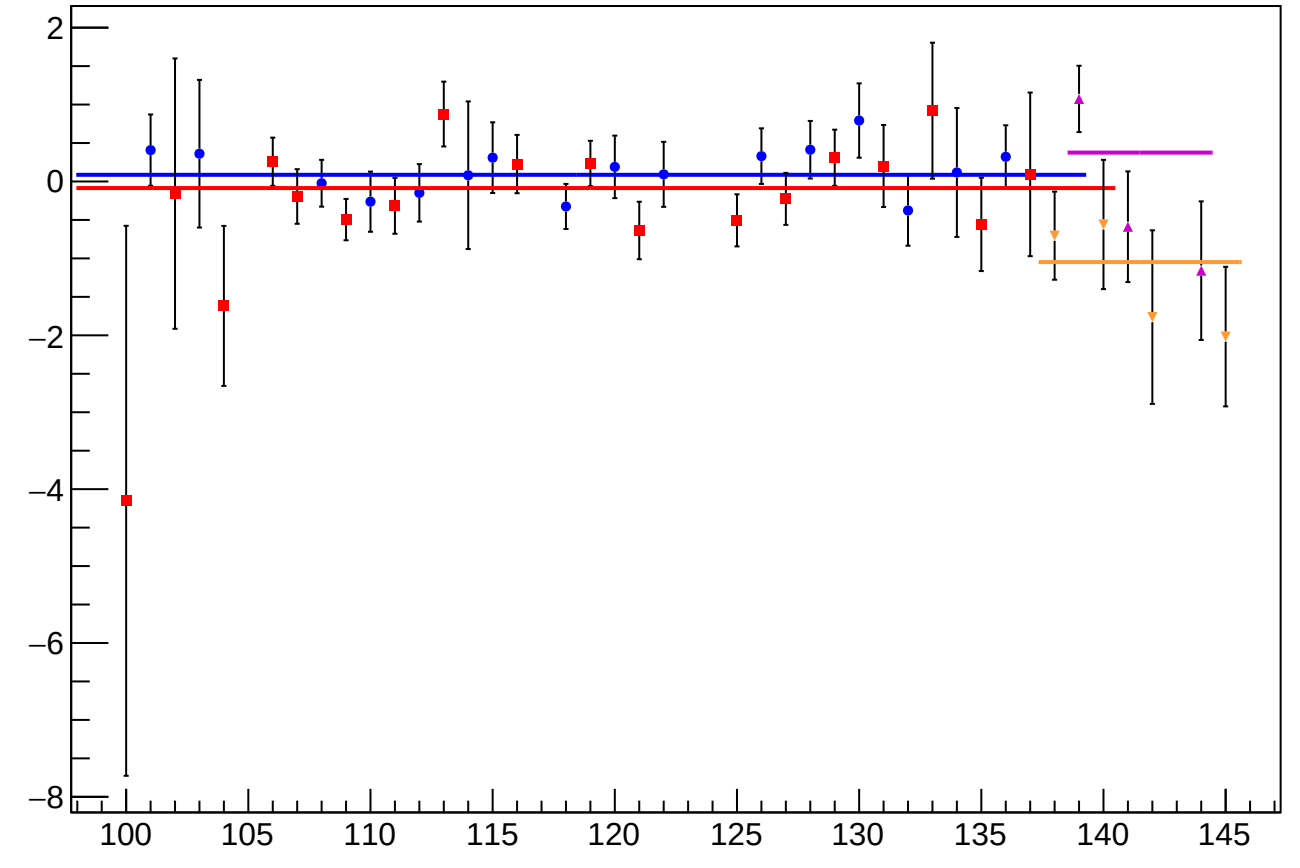
Left: 567.232+/-0.183 $\chi^2$/NDF: 965505.2/6

Right: 247.407+/-0.050 $\chi^2$/NDF: 3416944.1/33

In: 285.940+/-0.071 $\chi^2$/NDF:2821493.2/18

Out: 256.152+/-0.067 $\chi^2$/NDF:4318848.9/21

All: 270.136+/-0.049 $\chi^2$/NDF: 7233659.5/40




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: -1.048+/-0.393 $\chi^2$/NDF:2.2/3

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.376+/-0.342 $\chi^2$/NDF:7.3/2

Left: -0.238+/-0.258 $\chi^2$/NDF: 17.0/6

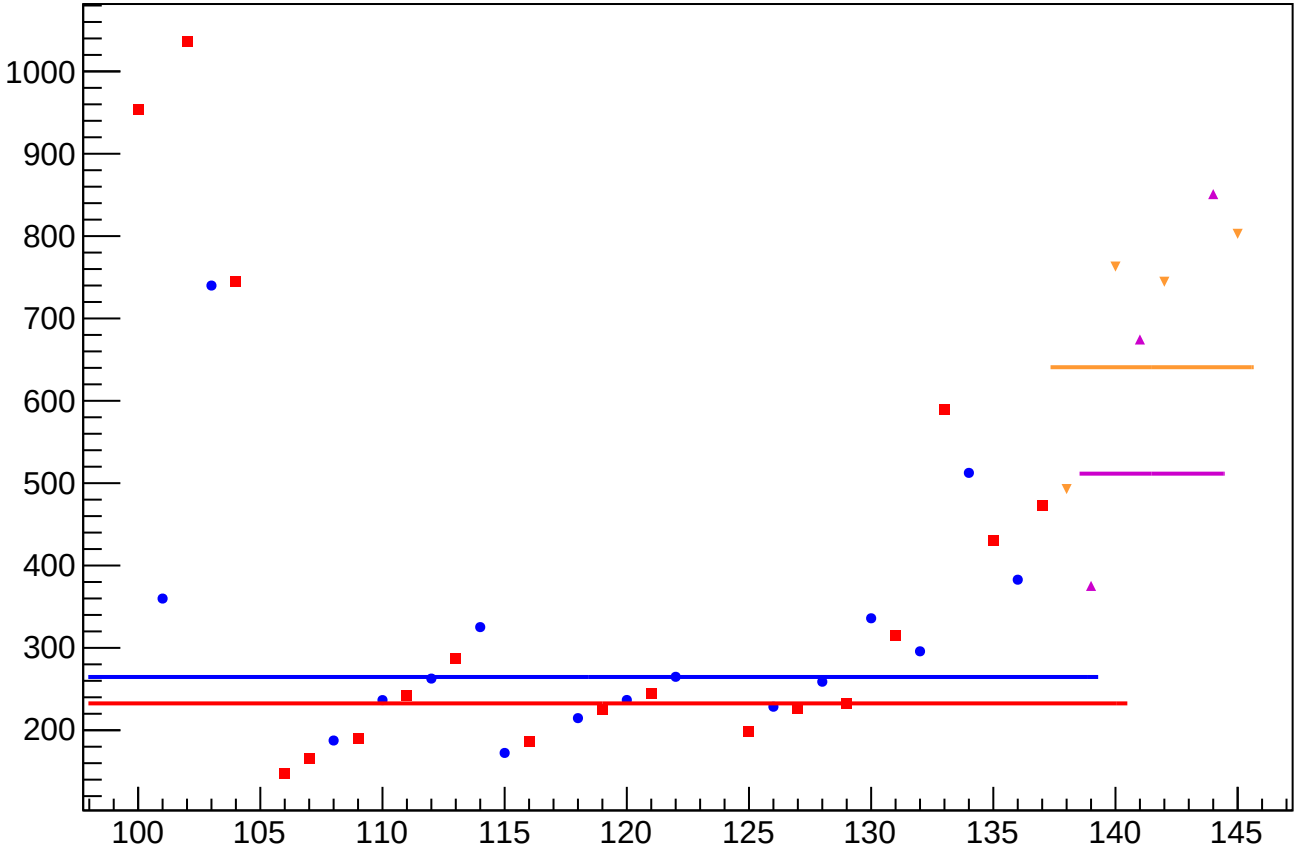
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.112+/-0.100 $\chi^2$/NDF:16.8/18

Out: -0.141+/-0.094 $\chi^2$/NDF:29.7/21

All: -0.022+/-0.069 $\chi^2$/NDF: 49.9/40

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: 640.795+/-0.278 $\chi^2$/NDF:256411.8/3

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032662.7/17

Left In: 511.550+/-0.242 $\chi^2$/NDF:586182.8/2

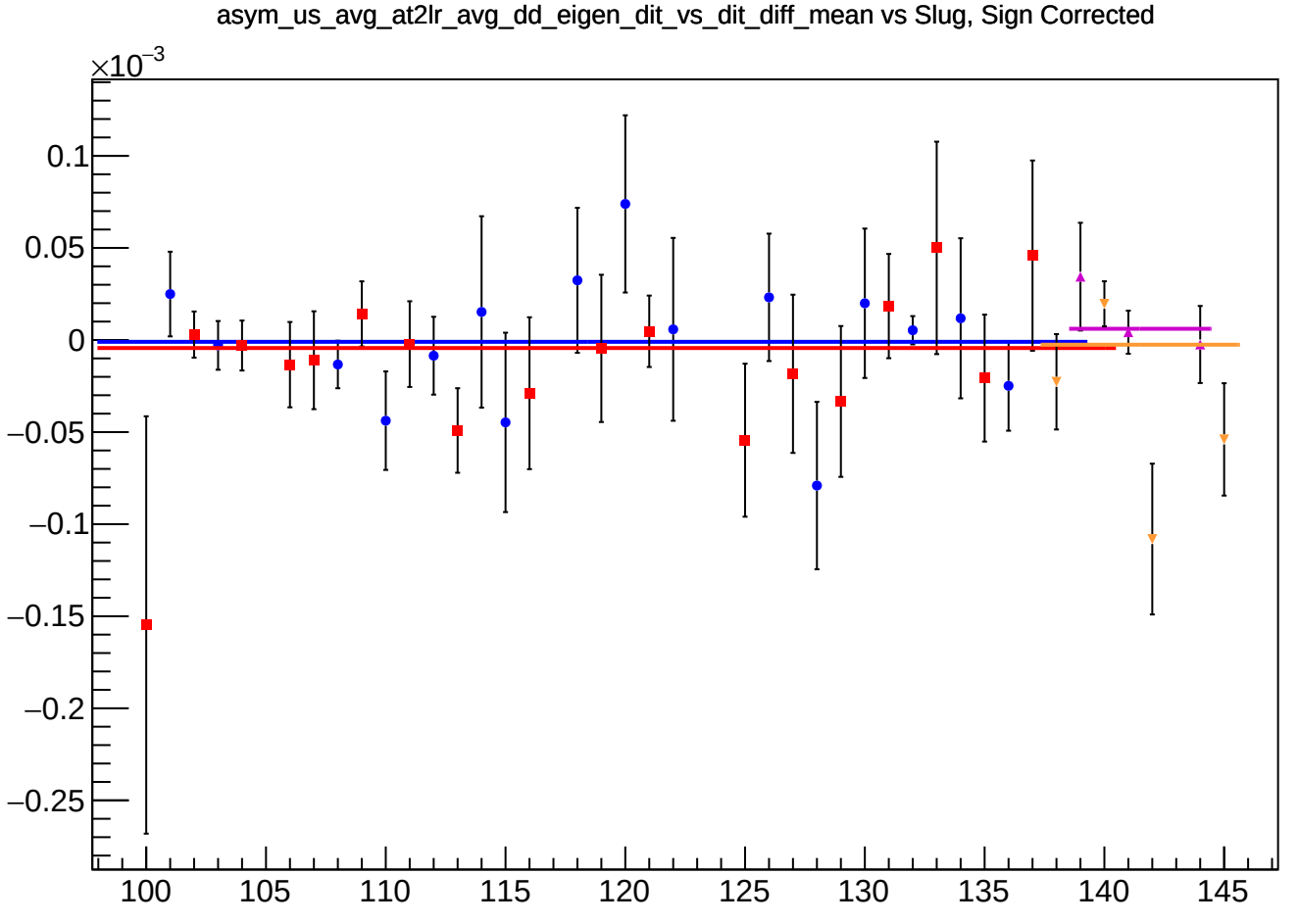
Left: 567.232+/-0.183 $\chi^2$/NDF: 965505.2/6

Right: 247.407+/-0.050 $\chi^2$/NDF: 3416944.1/33

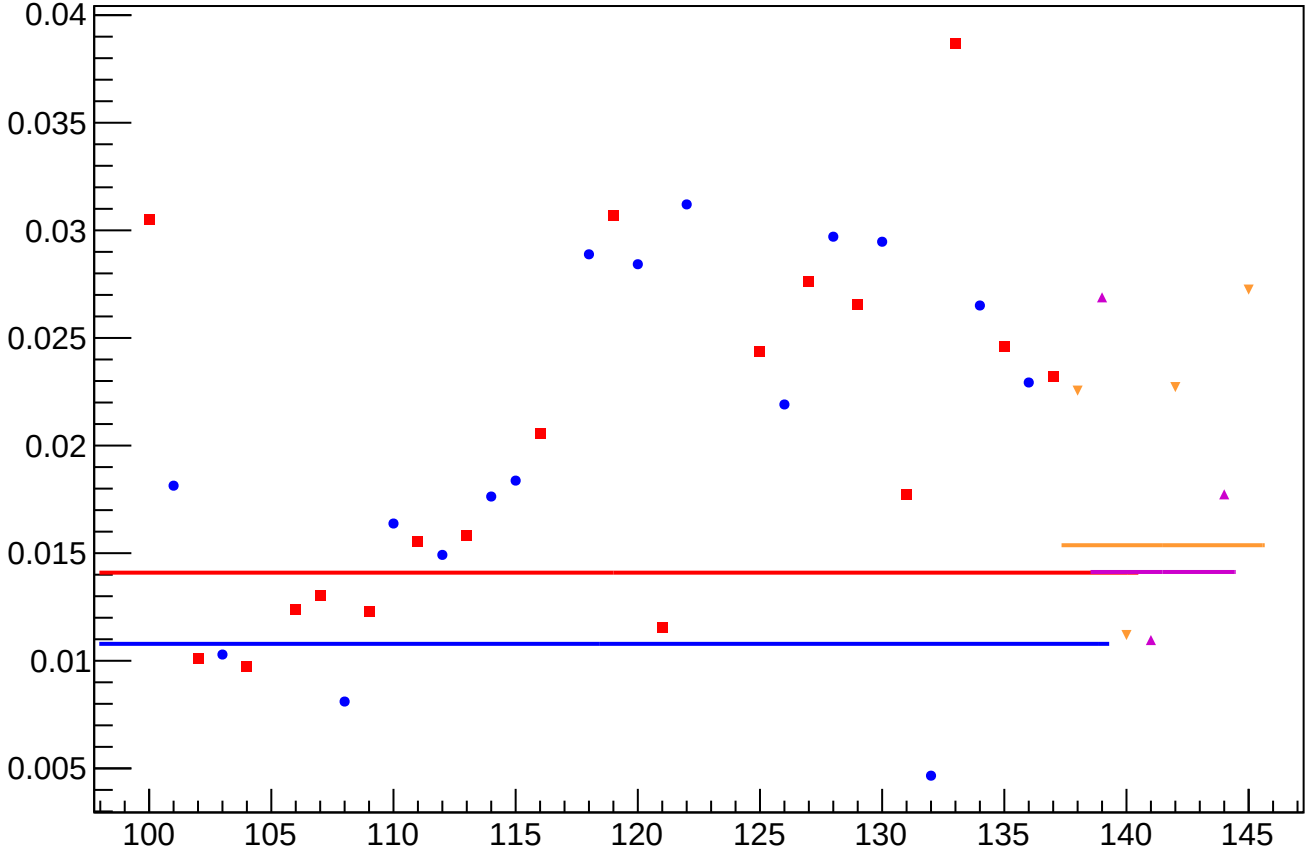
In: 285.940+/-0.071 $\chi^2$/NDF:2821493.2/18

Out: 256.152+/-0.067 $\chi^2$/NDF:4318848.9/21

All: 270.136+/-0.049 $\chi^2$/NDF: 7233659.5/40


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
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 14.4/15
Left Out: -0.000+/-0.000 χ²/NDF:13.4/3
Right Out: -0.000+/-0.000 χ²/NDF: 12.6/17
Left In: 0.000+/-0.000 χ²/NDF:1.1/2
Left: 0.000+/-0.000 χ²/NDF: 14.9/6
Right: -0.000+/-0.000 χ²/NDF: 27.2/33
In: 0.000+/-0.000 χ²/NDF:15.9/18
Out: -0.000+/-0.000 χ²/NDF:26.0/21
All: -0.000+/-0.000 χ²/NDF: 42.4/40

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: 0.015+/-0.000 $\chi^2$/NDF:753997.6/3

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 2084942.5/17

Left In: 0.014+/-0.000 $\chi^2$/NDF:586468.9/2

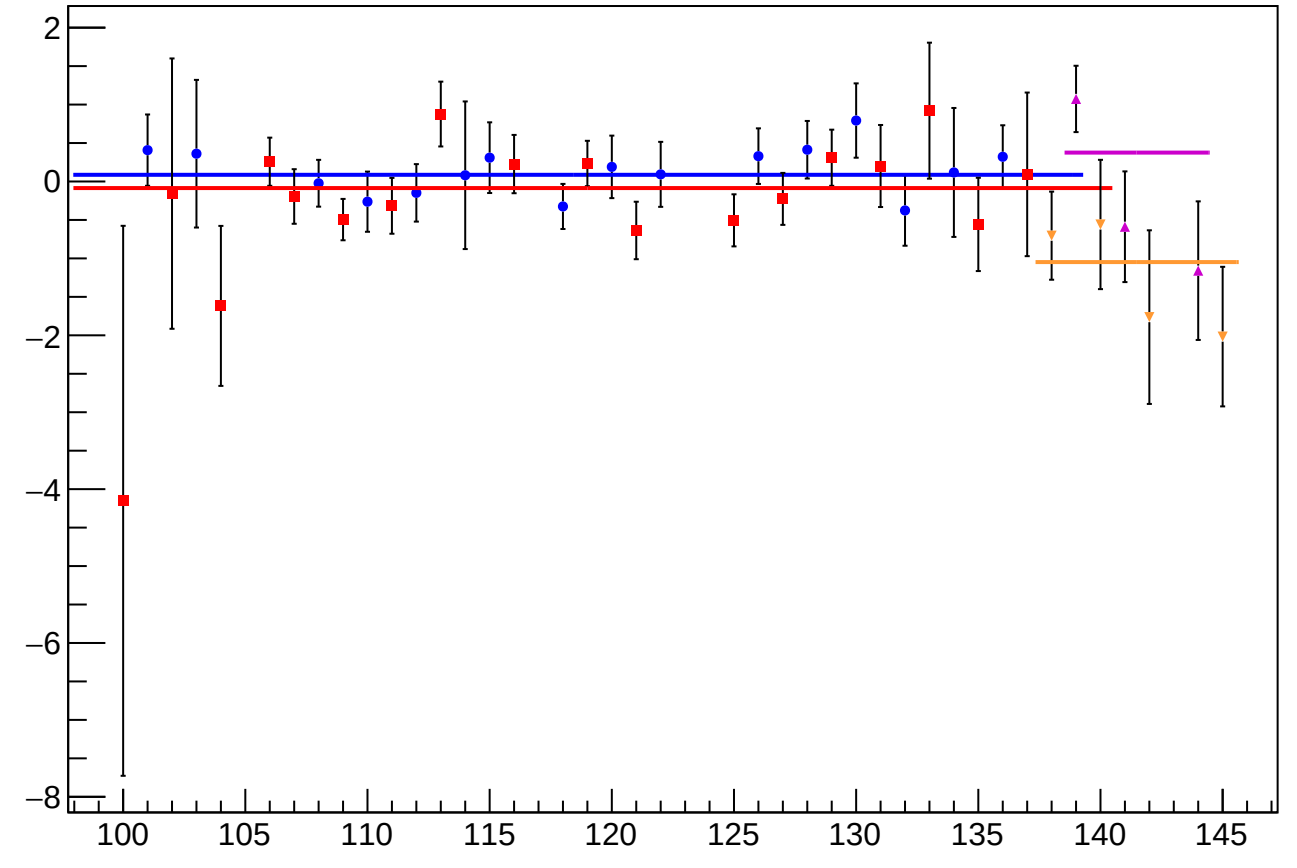
Left: 0.015+/-0.000 $\chi^2$/NDF: 1356356.1/6

Right: 0.012+/-0.000 $\chi^2$/NDF: 7045946.1/33

In: 0.011+/-0.000 $\chi^2$/NDF:5356430.0/18

Out: 0.014+/-0.000 $\chi^2$/NDF:2863110.1/21

All: 0.013+/-0.000 $\chi^2$/NDF: 8604508.5/40




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: -1.048+/-0.393 $\chi^2$/NDF:2.2/3

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.376+/-0.342 $\chi^2$/NDF:7.3/2

Left: -0.238+/-0.258 $\chi^2$/NDF: 17.0/6

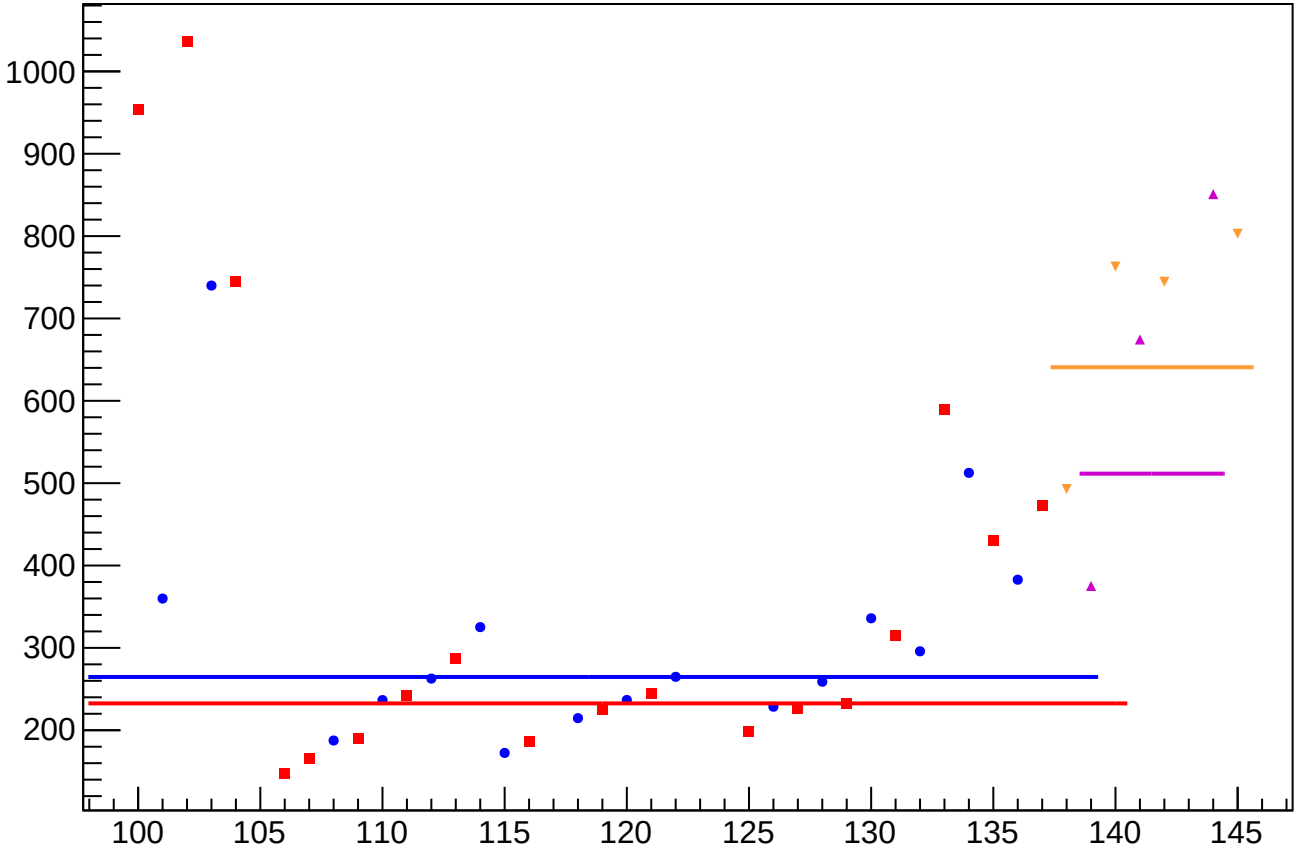
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.112+/-0.100 $\chi^2$/NDF:16.8/18

Out: -0.141+/-0.094 $\chi^2$/NDF:29.7/21

All: -0.022+/-0.069 $\chi^2$/NDF: 49.9/40

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: 640.802+/-0.278 $\chi^2$/NDF:256412.0/3

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032655.0/17

Left In: 511.560+/-0.242 $\chi^2$/NDF:586161.2/2

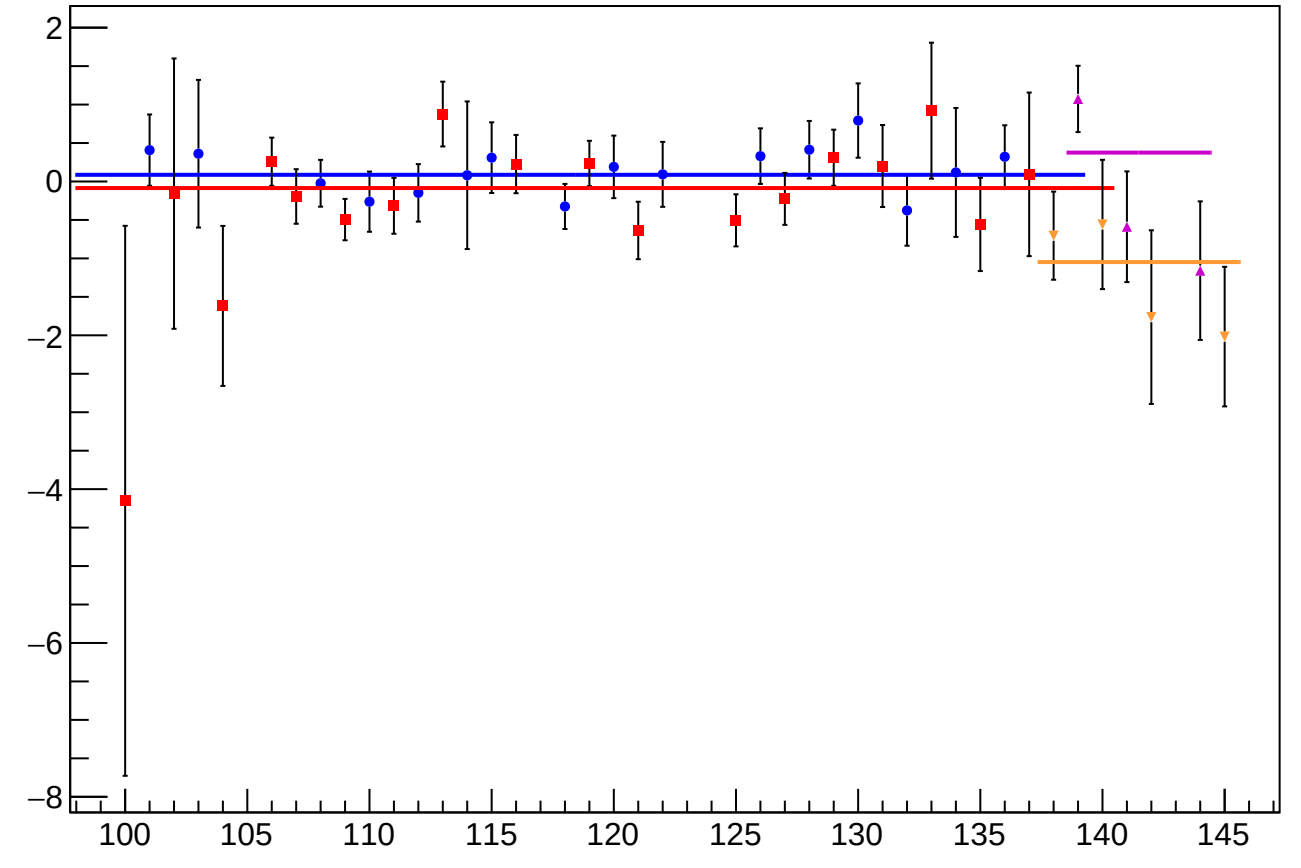
Left: 567.241+/-0.183 $\chi^2$/NDF: 965476.6/6

Right: 247.407+/-0.050 $\chi^2$/NDF: 3416901.3/33

In: 285.940+/-0.071 $\chi^2$/NDF:2821489.6/18

Out: 256.152+/-0.067 $\chi^2$/NDF:4318866.6/21

All: 270.136+/-0.049 $\chi^2$/NDF: 7233669.2/40




Right In: 0.087+/-0.105 $\chi^2$/NDF: 8.8/15

Left Out: -1.048+/-0.393 $\chi^2$/NDF:2.2/3

Right Out: -0.086+/-0.097 $\chi^2$/NDF: 21.8/17

Left In: 0.376+/-0.342 $\chi^2$/NDF:7.3/2

Left: -0.238+/-0.258 $\chi^2$/NDF: 17.0/6

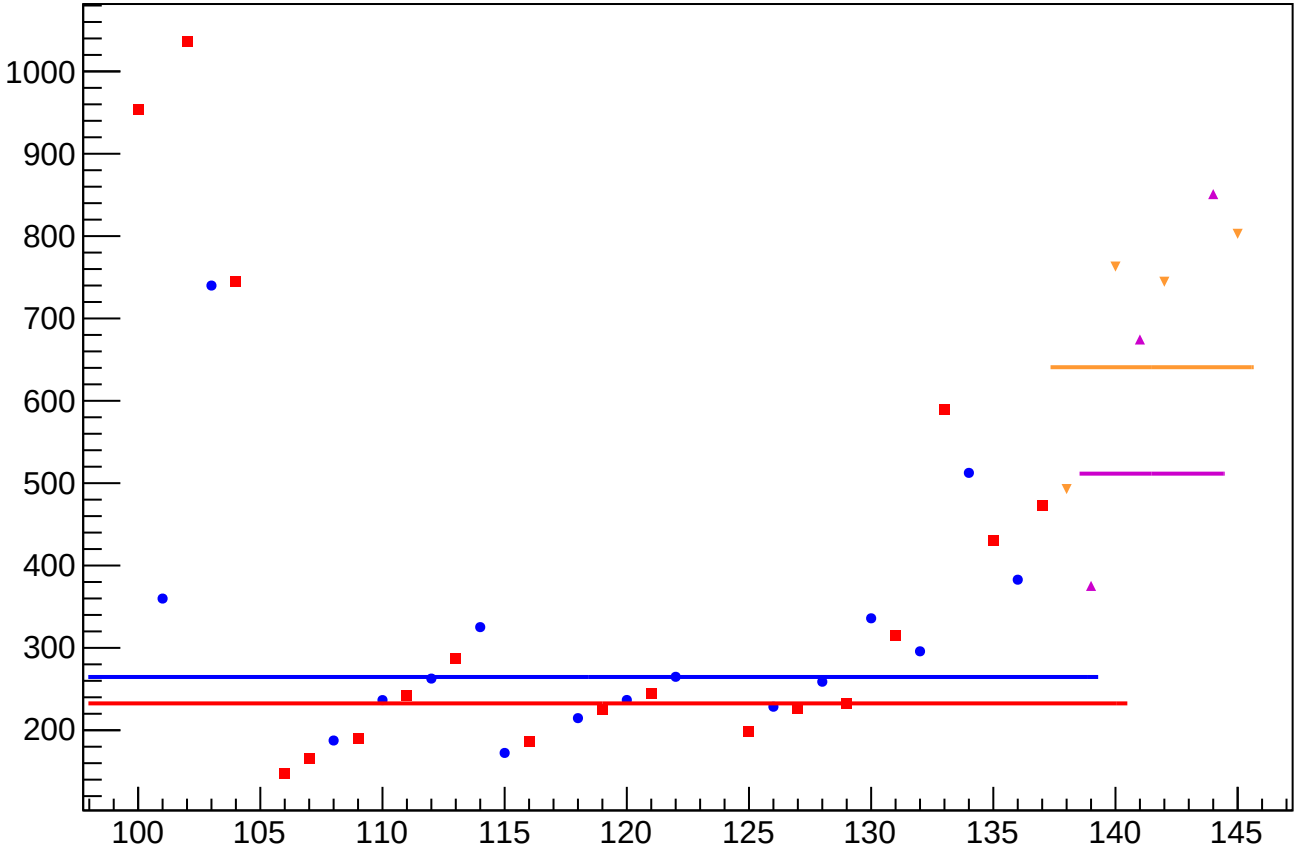
Right: -0.006+/-0.071 $\chi^2$/NDF: 32.1/33

In: 0.112+/-0.100 $\chi^2$/NDF:16.8/18

Out: -0.141+/-0.094 $\chi^2$/NDF:29.7/21

All: -0.022+/-0.069 $\chi^2$/NDF: 49.9/40

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: 640.802+/-0.278 $\chi^2$/NDF:256412.0/3

Right Out: 232.596+/-0.069 $\chi^2$/NDF: 2032655.0/17

Left In: 511.560+/-0.242 $\chi^2$/NDF:586161.2/2

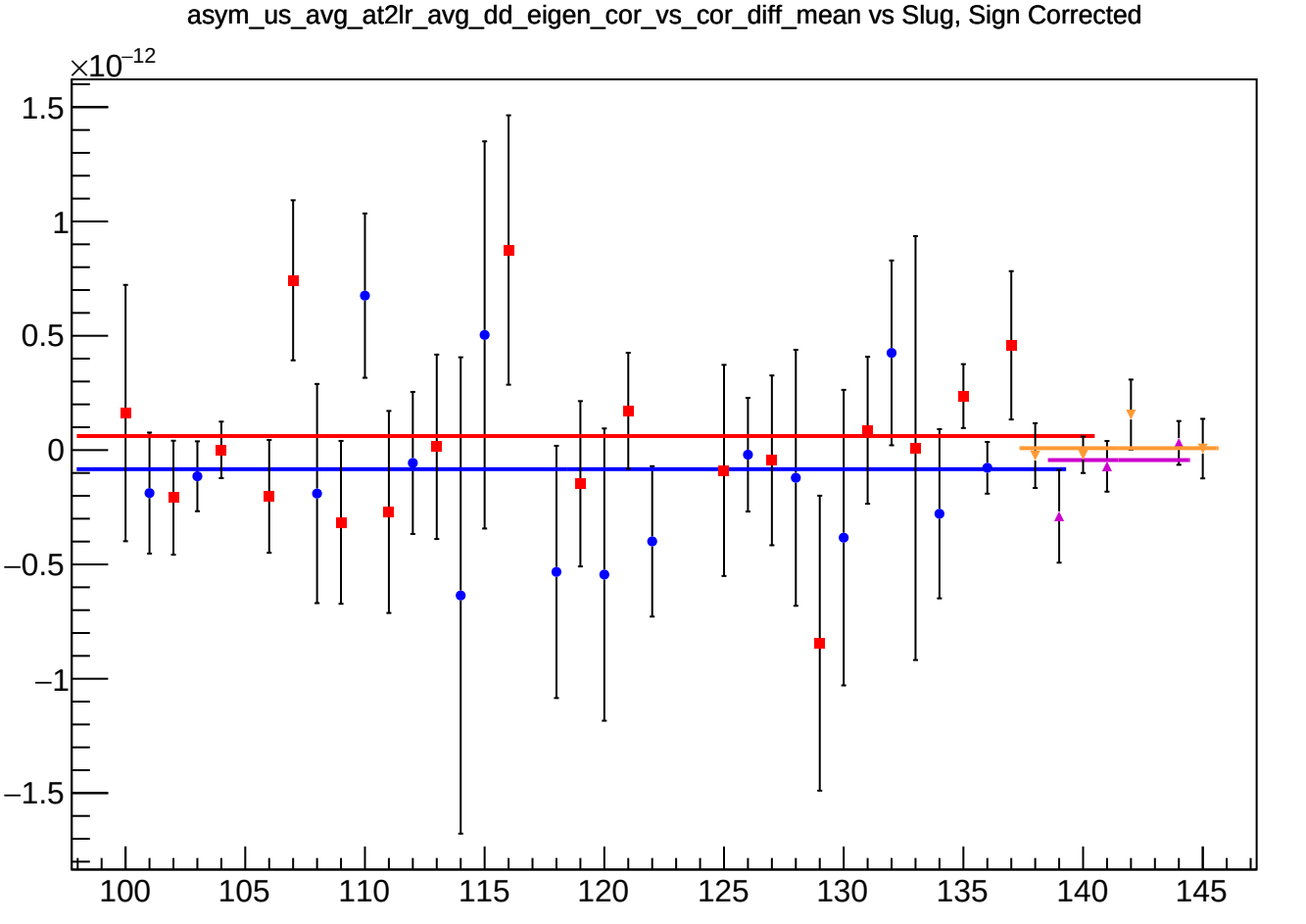
Left: 567.241+/-0.183 $\chi^2$/NDF: 965476.6/6

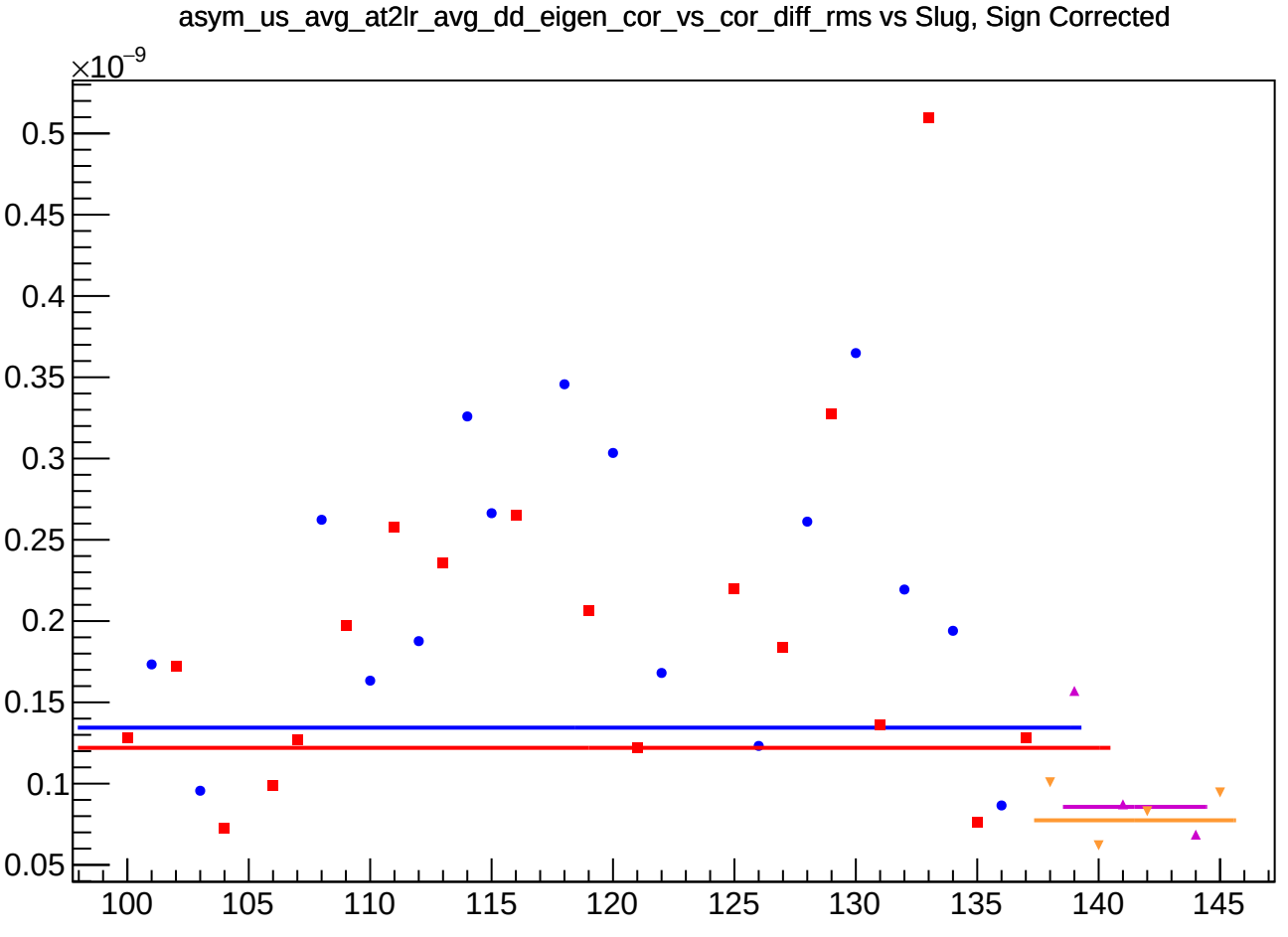
Right: 247.407+/-0.050 $\chi^2$/NDF: 3416901.3/33

In: 285.940+/-0.071 $\chi^2$/NDF:2821489.6/18

Out: 256.152+/-0.067 $\chi^2$/NDF:4318866.6/21

All: 270.136+/-0.049 $\chi^2$/NDF: 7233669.2/40


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
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 9.7/15
Left Out: 0.000+/-0.000 χ²/NDF:1.1/3
Right Out: 0.000+/-0.000 χ²/NDF: 15.7/17
Left In: -0.000+/-0.000 χ²/NDF:2.1/2
Left: -0.000+/-0.000 χ²/NDF: 3.6/6
Right: -0.000+/-0.000 χ²/NDF: 27.8/33
In: -0.000+/-0.000 χ²/NDF:12.0/18
Out: 0.000+/-0.000 χ²/NDF:17.2/21
All: -0.000+/-0.000 χ²/NDF: 31.4/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1814968.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:166026.7/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2003381.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:311064.0/2

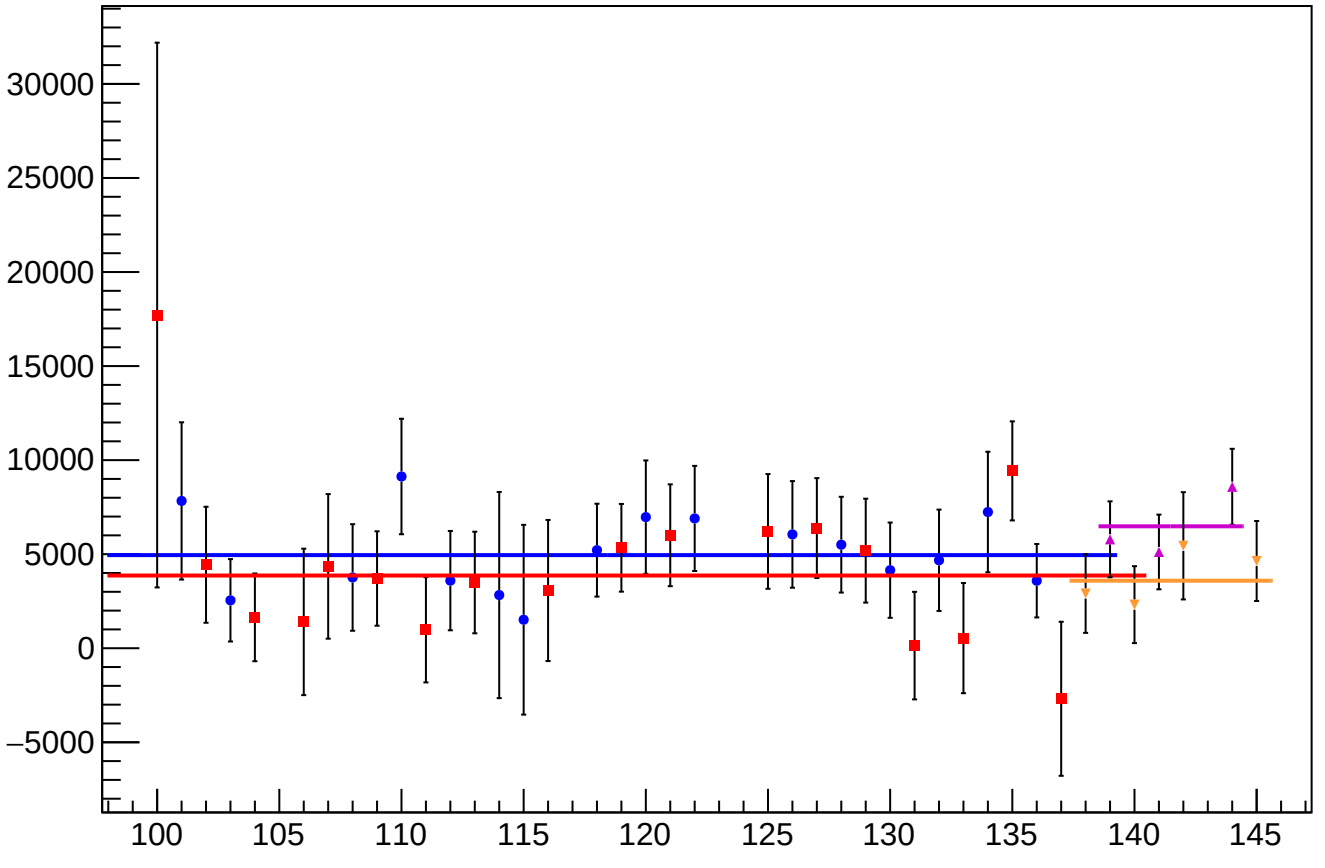
Left: 0.000+/-0.000 $\chi^2$/NDF: 494399.6/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 3852912.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:2630289.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2706403.4/21

All: 0.000+/-0.000 $\chi^2$/NDF: 5415681.4/40




Right In: 4950.321+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 3589.490+/-1110.002 $\chi^2$/NDF:1.2/3

Right Out: 3865.145+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 6481.646+/-1159.061 $\chi^2$/NDF:1.7/2

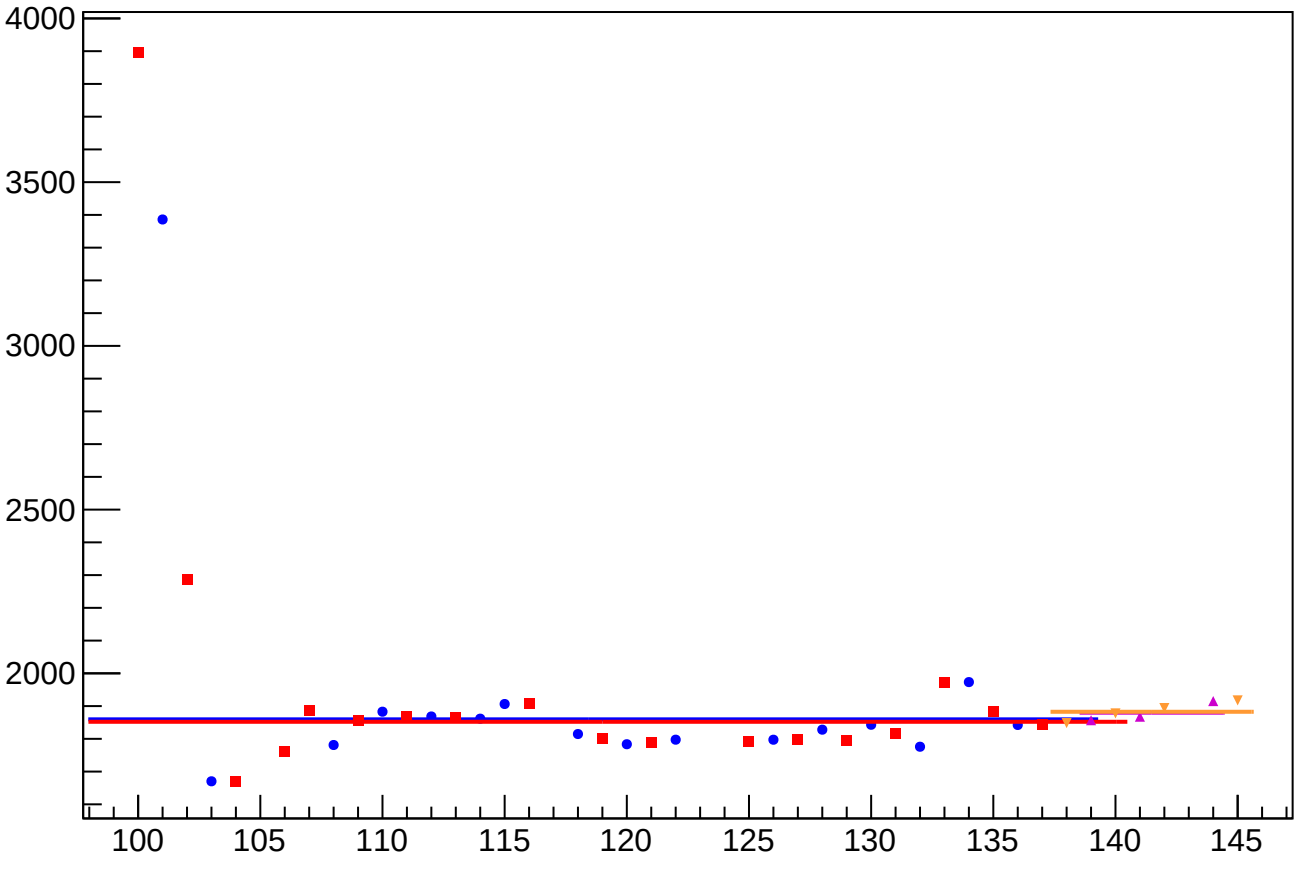
Left: 4973.066+/-801.673 $\chi^2$/NDF: 6.1/6

Right: 4405.277+/-493.103 $\chi^2$/NDF: 24.2/33

In: 5358.671+/-598.534 $\chi^2$/NDF:9.8/18

Out: 3787.388+/-589.536 $\chi^2$/NDF:17.4/21

All: 4561.129+/-420.010 $\chi^2$/NDF: 30.7/40




Right In: 1859.509+/-0.494 $\chi^2$/NDF: 292334.6/15

Left Out: 1882.632+/-0.785 $\chi^2$/NDF:1122.0/3

Right Out: 1852.065+/-0.490 $\chi^2$/NDF: 102212.5/17

Left In: 1879.819+/-0.820 $\chi^2$/NDF:951.2/2

Left: 1881.286+/-0.567 $\chi^2$/NDF: 2079.4/6

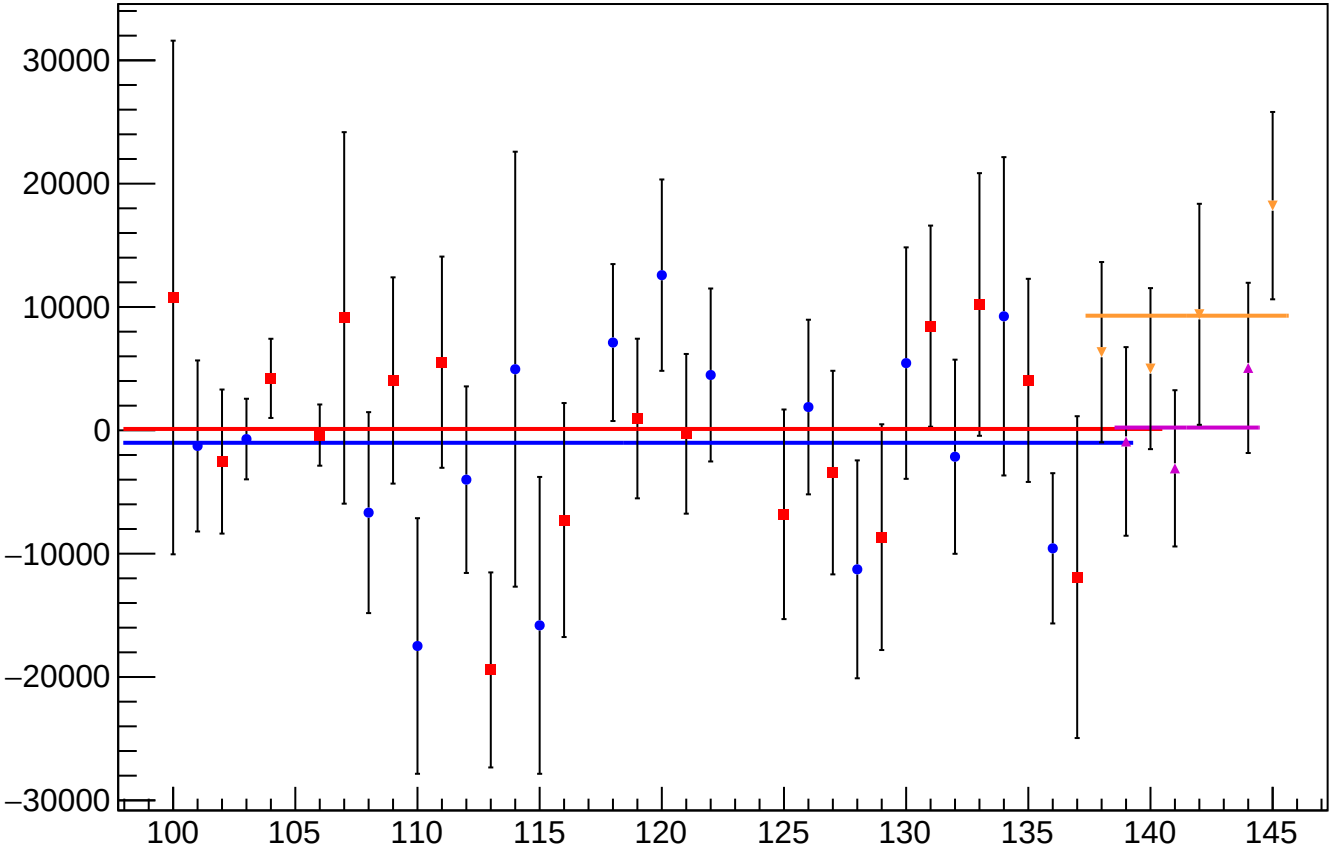
Right: 1855.759+/-0.348 $\chi^2$/NDF: 394661.4/33

In: 1864.925+/-0.423 $\chi^2$/NDF:293736.1/18

Out: 1860.650+/-0.416 $\chi^2$/NDF:104425.3/21

All: 1862.750+/-0.297 $\chi^2$/NDF: 398213.3/40

asym_us_avg_atlr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -1010.288+/-1764.180 $\chi^2$/NDF: 14.7/15

Left Out: 9294.863+/-3727.883 $\chi^2$/NDF:2.0/3

Right Out: 111.261+/-1438.515 $\chi^2$/NDF: 14.6/17

Left In: 223.956+/-3983.481 $\chi^2$/NDF:0.8/2

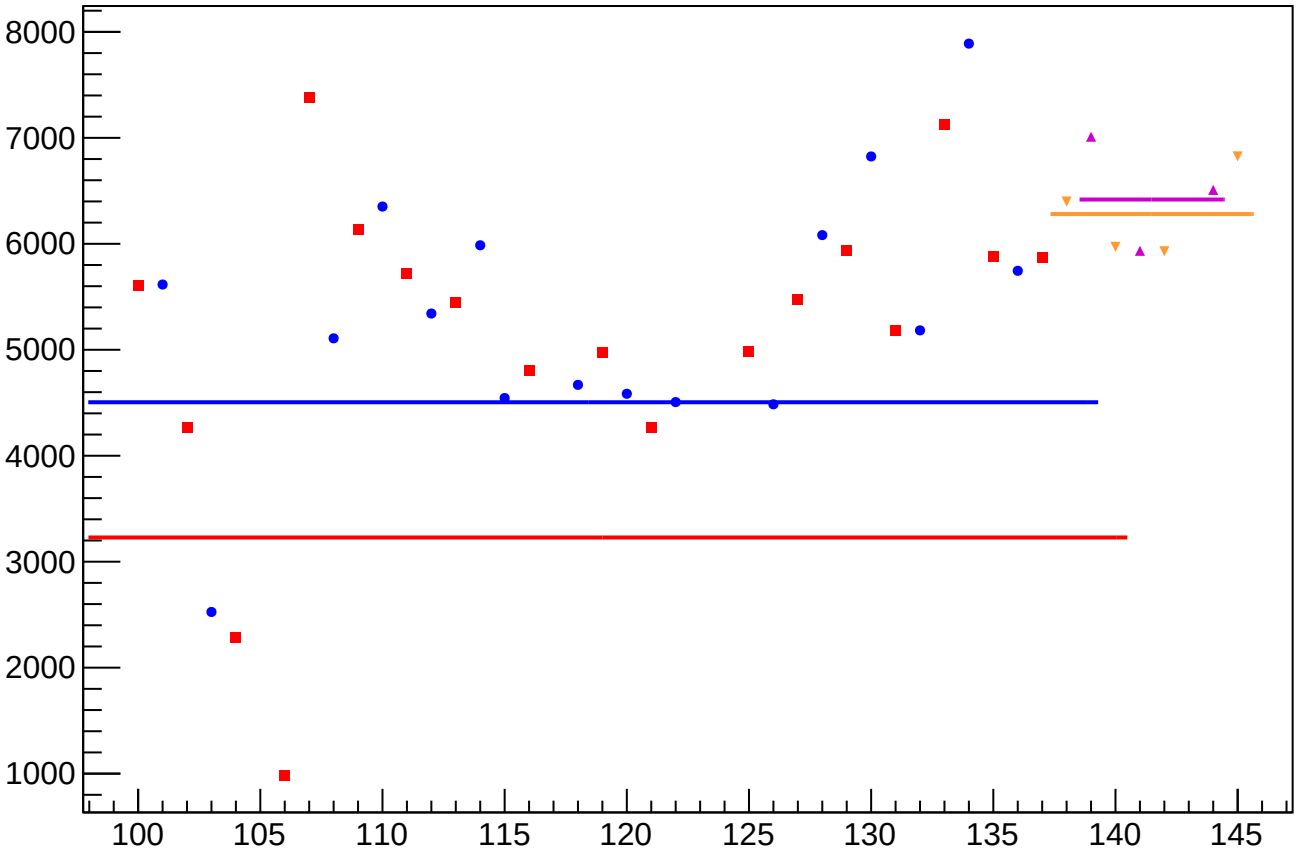
Left: 5059.741+/-2721.889 $\chi^2$/NDF: 5.5/6

Right: -336.636+/-1114.867 $\chi^2$/NDF: 29.6/33

In: -807.902+/-1613.067 $\chi^2$/NDF:15.6/18

Out: 1301.499+/-1342.062 $\chi^2$/NDF:21.9/21

All: 438.631+/-1031.680 $\chi^2$/NDF: 38.5/40




Right In: 4504.788+/-1.247 $\chi^2$/NDF: 1321104.9/15

Left Out: 6280.863+/-2.636 $\chi^2$/NDF:18357.6/3

Right Out: 3228.605+/-1.017 $\chi^2$/NDF: 3956397.6/17

Left In: 6418.069+/-2.817 $\chi^2$/NDF:24032.5/2

Left: 6344.923+/-1.925 $\chi^2$/NDF: 43655.0/6

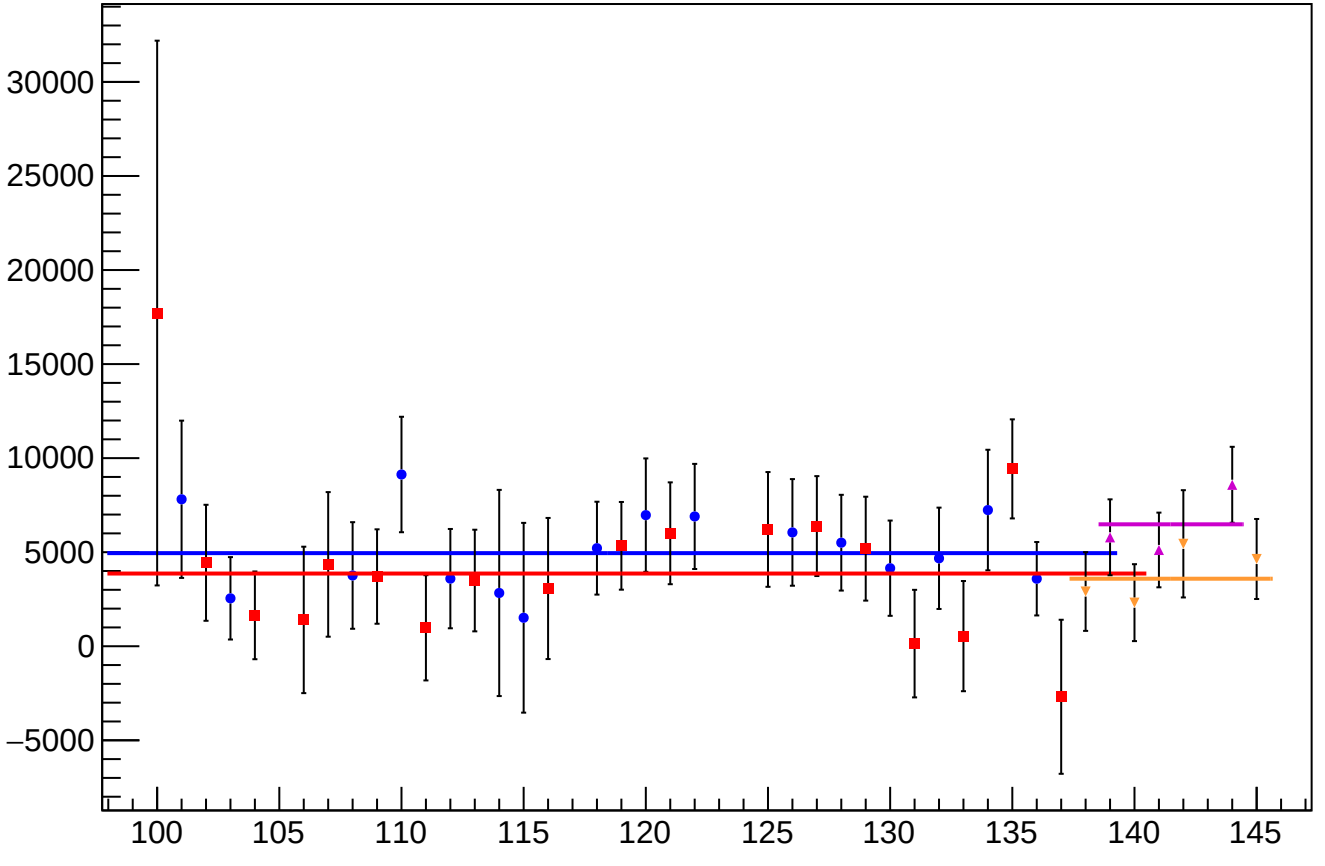
Right: 3738.256+/-0.788 $\chi^2$/NDF: 5906121.0/33

In: 4818.520+/-1.141 $\chi^2$/NDF:1730865.1/18

Out: 3624.192+/-0.949 $\chi^2$/NDF:5141737.6/21

All: 4112.742+/-0.730 $\chi^2$/NDF: 7520515.7/40

cor_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected




Right In: 4949.838+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 3589.647+/-1110.002 $\chi^2$/NDF:1.2/3

Right Out: 3864.930+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 6481.982+/-1159.061 $\chi^2$/NDF:1.7/2

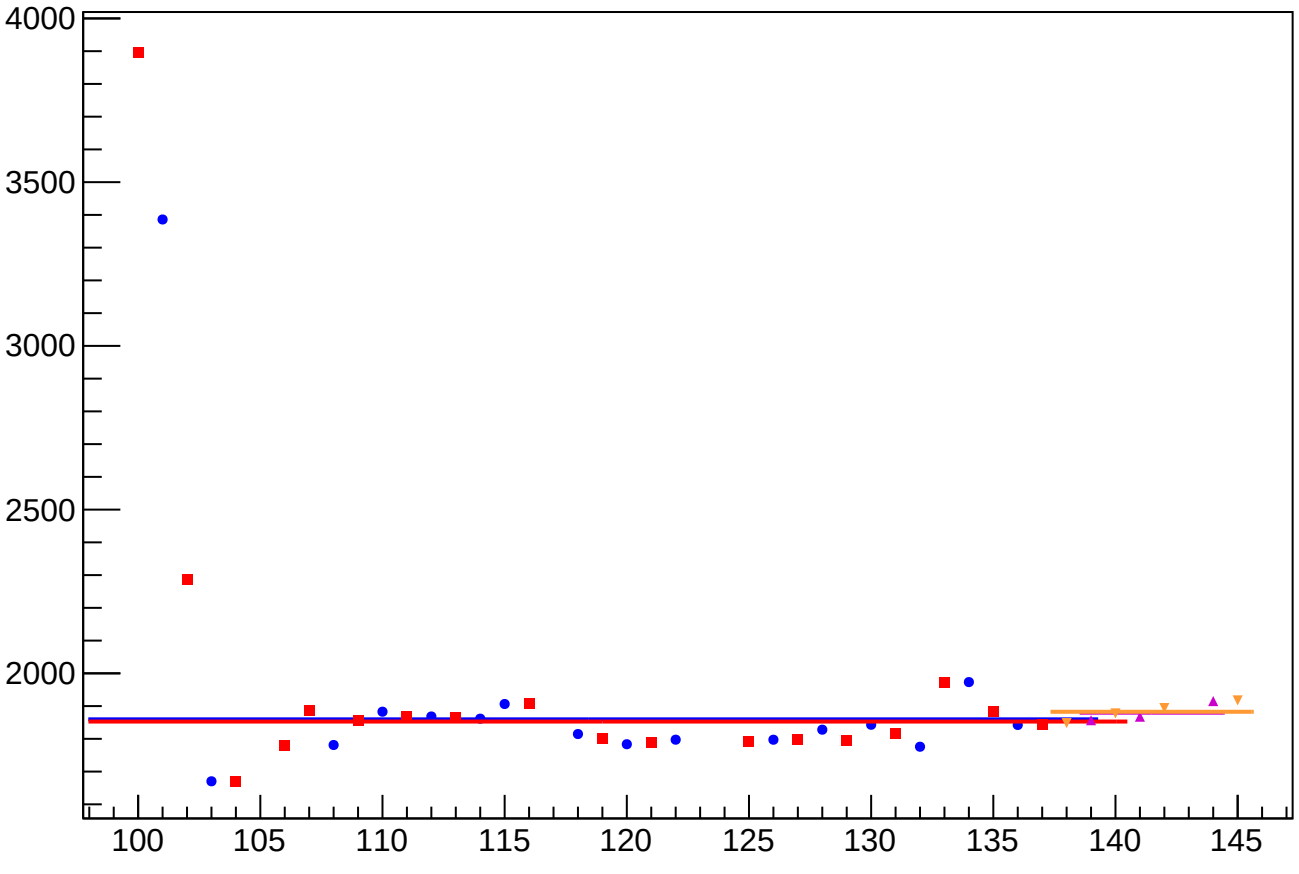
Left: 4973.309+/-801.673 $\chi^2$/NDF: 6.1/6

Right: 4404.929+/-493.103 $\chi^2$/NDF: 24.2/33

In: 5358.407+/-598.535 $\chi^2$/NDF:9.8/18

Out: 3787.278+/-589.536 $\chi^2$/NDF:17.4/21

All: 4560.943+/-420.010 $\chi^2$/NDF: 30.7/40




Right In: 1859.509+/-0.494 $\chi^2$/NDF: 292336.5/15

Left Out: 1882.632+/-0.785 $\chi^2$/NDF:1122.0/3

Right Out: 1852.770+/-0.491 $\chi^2$/NDF: 101750.5/17

Left In: 1879.819+/-0.820 $\chi^2$/NDF:951.2/2

Left: 1881.286+/-0.567 $\chi^2$/NDF: 2079.4/6

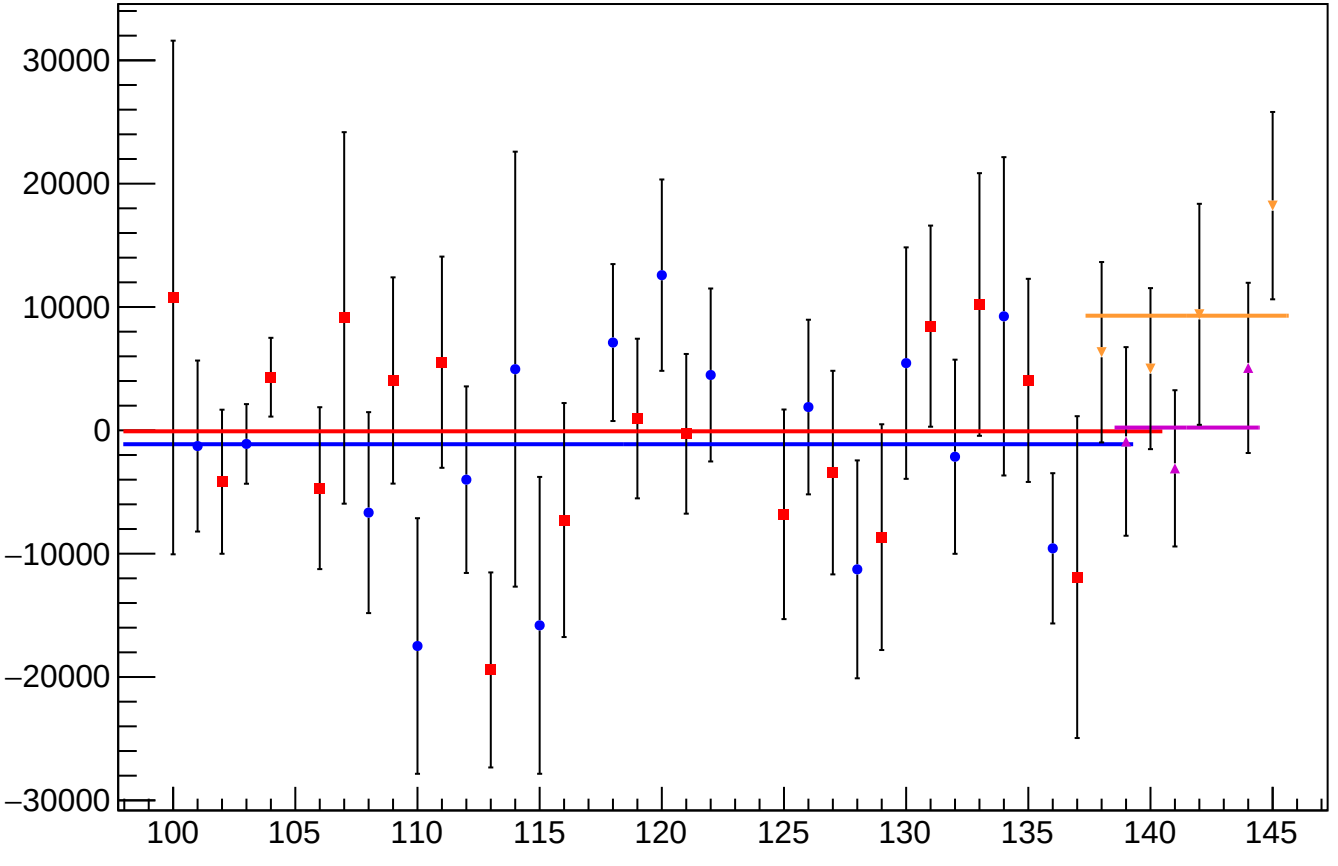
Right: 1856.115+/-0.348 $\chi^2$/NDF: 394180.6/33

In: 1864.925+/-0.423 $\chi^2$/NDF:293738.0/18

Out: 1861.161+/-0.416 $\chi^2$/NDF:103913.3/21

All: 1863.011+/-0.297 $\chi^2$/NDF: 397691.5/40

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: 9294.959+/-3727.875 $\chi^2$/NDF:2.0/3

Right Out: -78.270+/-1702.444 $\chi^2$/NDF: 15.5/17

Left In: 224.021+/-3983.479 $\chi^2$/NDF:0.8/2

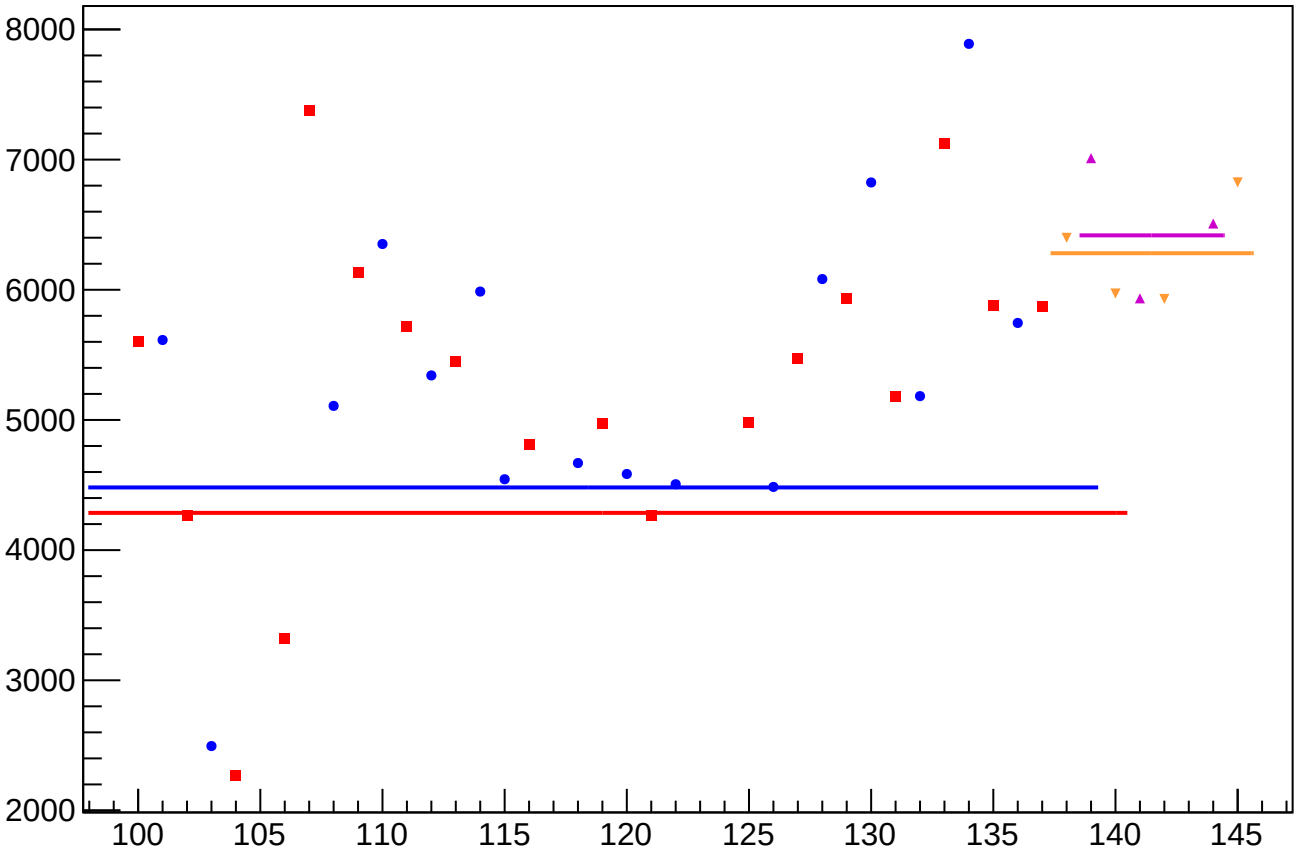
Left: 5059.829+/-2721.885 $\chi^2$/NDF: 5.5/6

Right: -585.146+/-1222.937 $\chi^2$/NDF: 30.5/33

In: -905.589+/-1608.244 $\chi^2$/NDF:15.6/18

Out: 1539.233+/-1548.600 $\chi^2$/NDF:22.8/21

All: 362.997+/-1115.515 $\chi^2$/NDF: 39.6/40




Right In: 4481.518+/-1.243 $\chi^2$/NDF: 1362255.0/15

Left Out: 6280.849+/-2.636 $\chi^2$/NDF:18357.9/3

Right Out: 4286.125+/-1.204 $\chi^2$/NDF: 1549852.7/17

Left In: 6418.064+/-2.817 $\chi^2$/NDF:24033.5/2

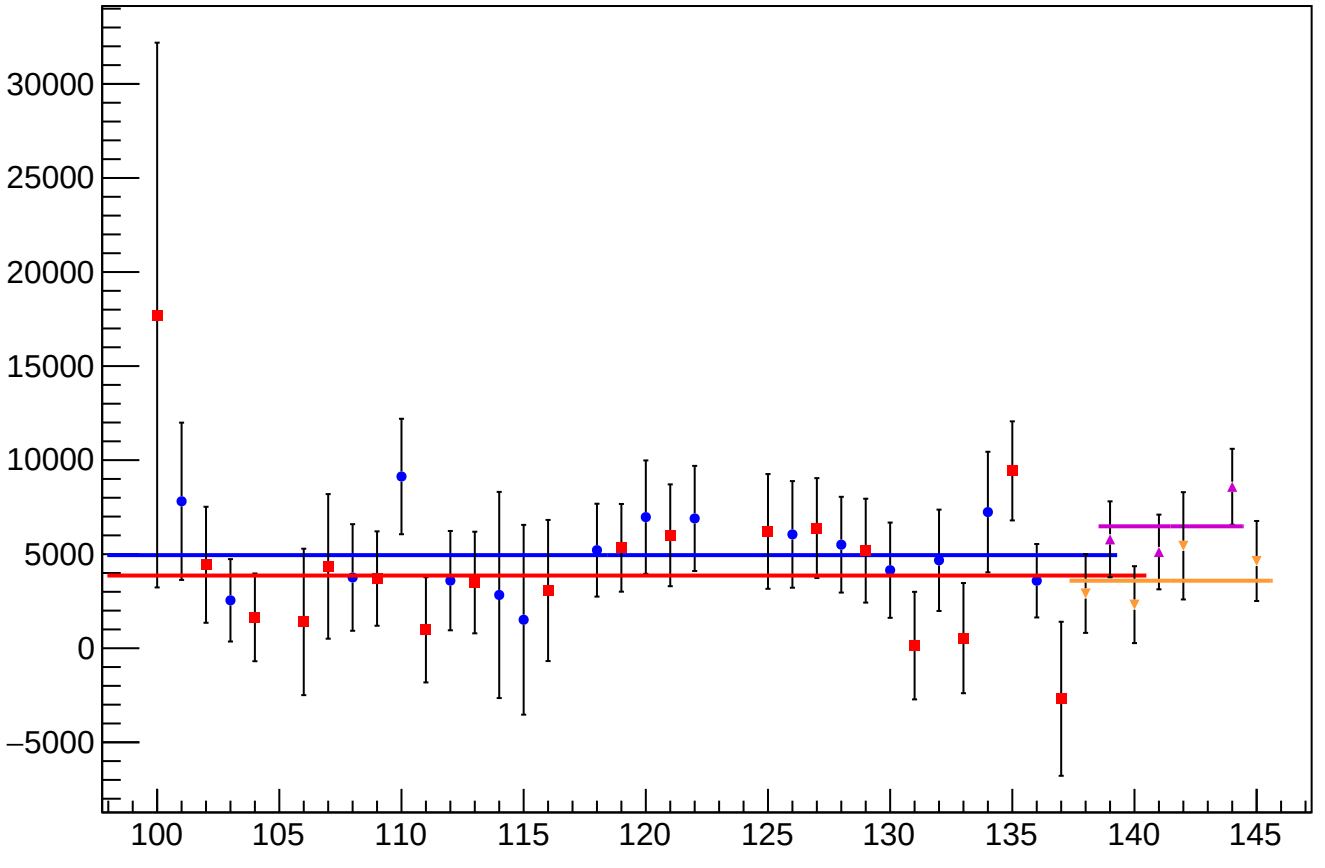
Left: 6344.913+/-1.925 $\chi^2$/NDF: 43656.5/6

Right: 4380.692+/-0.865 $\chi^2$/NDF: 2924858.4/33

In: 4797.169+/-1.137 $\chi^2$/NDF:1781917.2/18

Out: 4630.347+/-1.095 $\chi^2$/NDF:2042022.6/21

All: 4710.607+/-0.789 $\chi^2$/NDF: 3835105.9/40




Right In: 4949.838+/-698.937 $\chi^2$/NDF: 6.8/15

Left Out: 3589.647+/-1110.002 $\chi^2$/NDF:1.2/3

Right Out: 3864.930+/-695.781 $\chi^2$/NDF: 16.2/17

Left In: 6481.982+/-1159.061 $\chi^2$/NDF:1.7/2

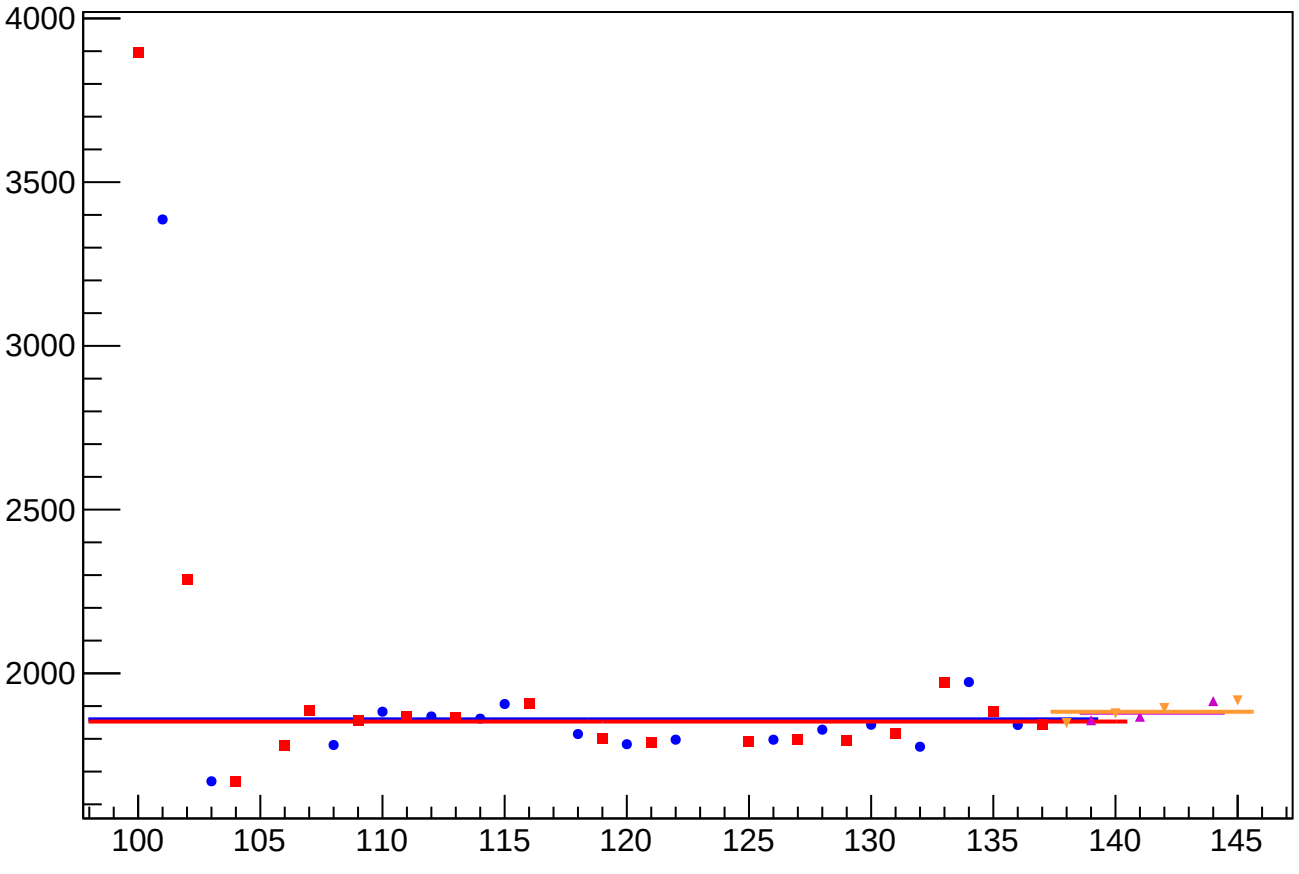
Left: 4973.309+/-801.673 $\chi^2$/NDF: 6.1/6

Right: 4404.929+/-493.103 $\chi^2$/NDF: 24.2/33

In: 5358.407+/-598.535 $\chi^2$/NDF:9.8/18

Out: 3787.278+/-589.536 $\chi^2$/NDF:17.4/21

All: 4560.943+/-420.010 $\chi^2$/NDF: 30.7/40




Right In: 1859.509+/-0.494 $\chi^2$/NDF: 292336.5/15

Left Out: 1882.632+/-0.785 $\chi^2$/NDF:1122.0/3

Right Out: 1852.770+/-0.491 $\chi^2$/NDF: 101750.5/17

Left In: 1879.819+/-0.820 $\chi^2$/NDF:951.2/2

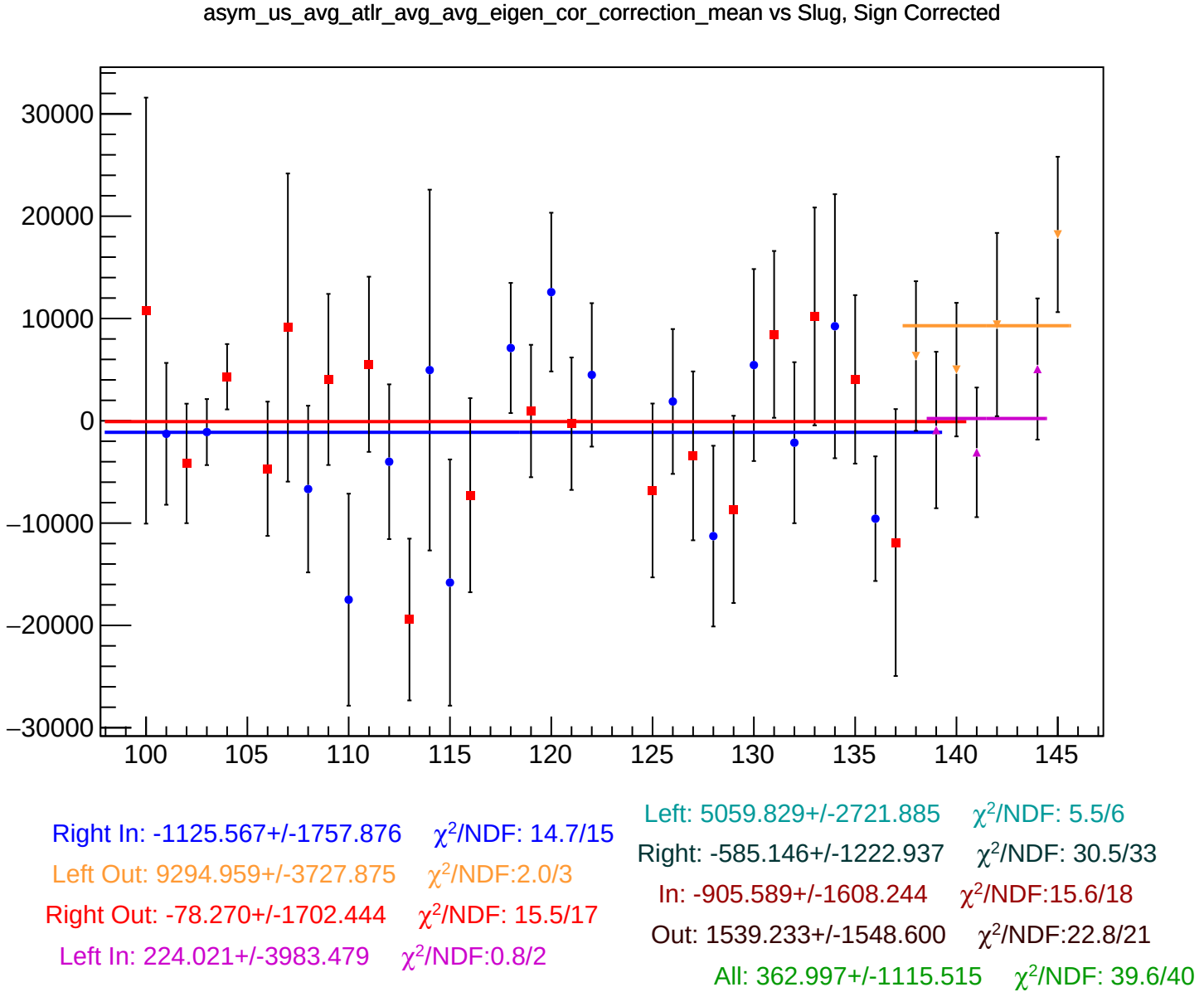
Left: 1881.286+/-0.567 $\chi^2$/NDF: 2079.4/6

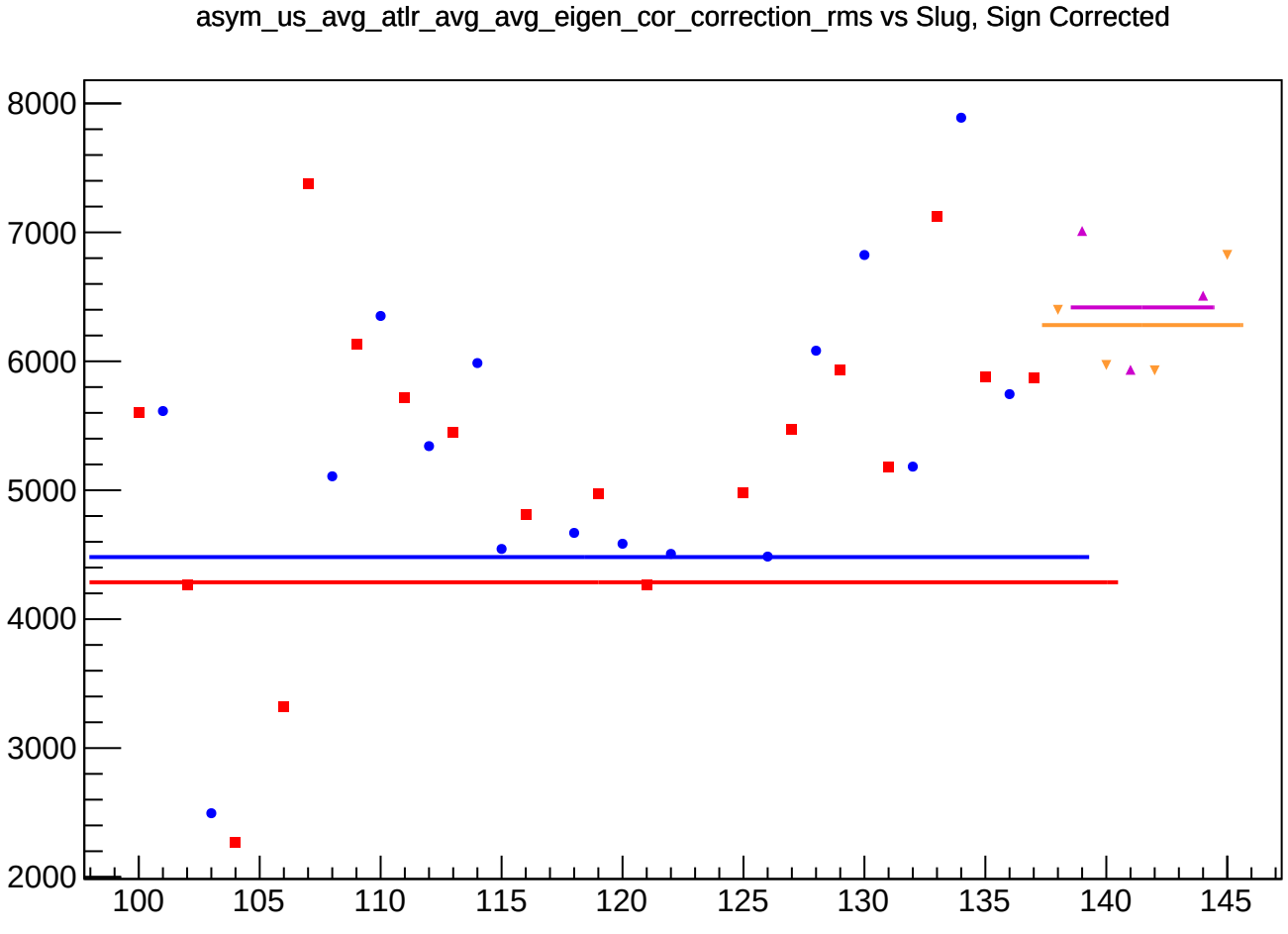
Right: 1856.115+/-0.348 $\chi^2$/NDF: 394180.6/33

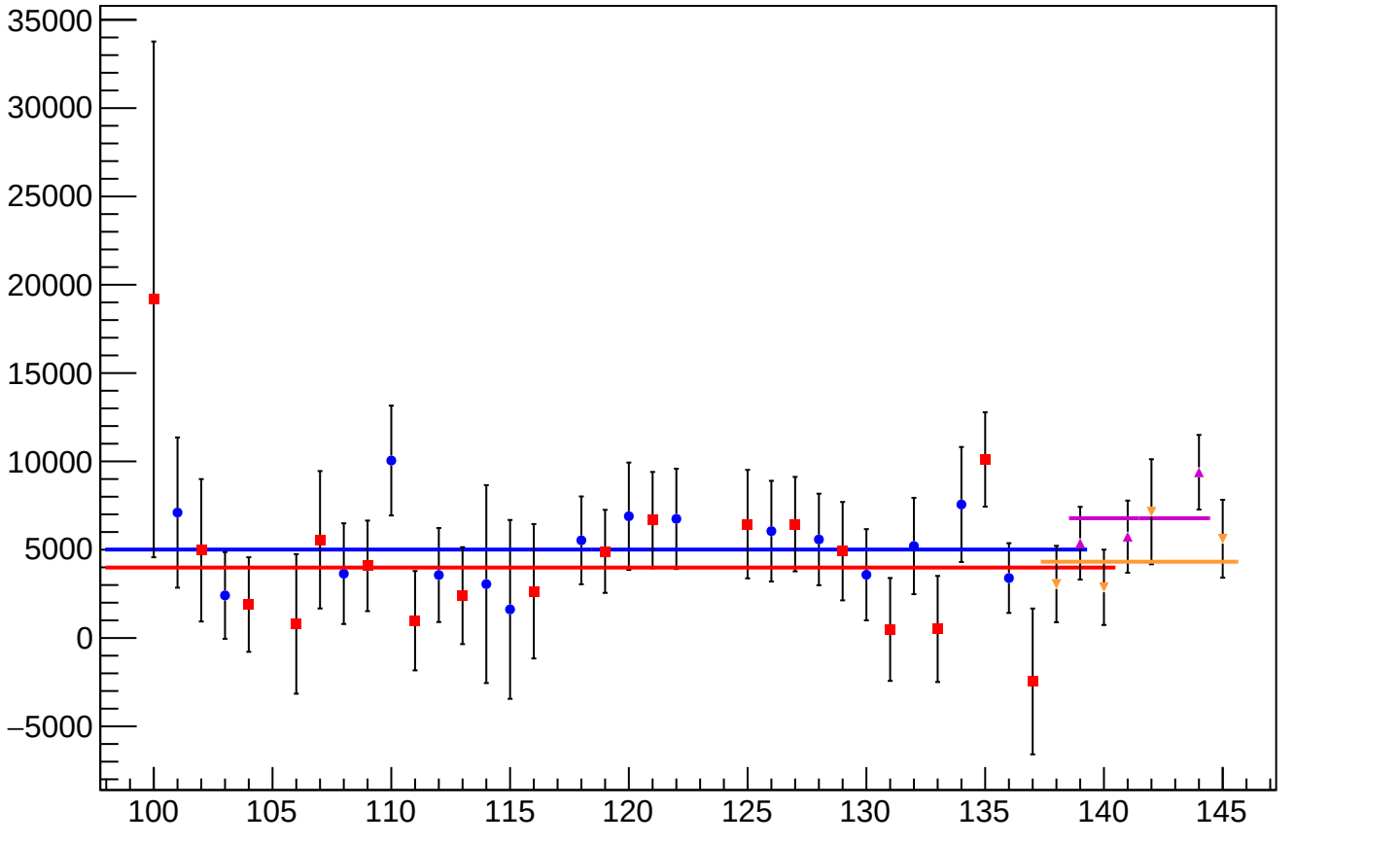
In: 1864.925+/-0.423 $\chi^2$/NDF:293738.0/18

Out: 1861.161+/-0.416 $\chi^2$/NDF:103913.3/21

All: 1863.011+/-0.297 $\chi^2$/NDF: 397691.5/40


asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
100
105
110
115
120
125
130
135
140
145
Right In: -1125.567+/-1757.876 χ²/NDF: 14.7/15
Left Out: 9294.959+/-3727.875 χ²/NDF:2.0/3
Right Out: -78.270+/-1702.444 χ²/NDF: 15.5/17
Left In: 224.021+/-3983.479 χ²/NDF:0.8/2
Left: 5059.829+/-2721.885 χ²/NDF: 5.5/6
Right: -585.146+/-1222.937 χ²/NDF: 30.5/33
In: -905.589+/-1608.244 χ²/NDF:15.6/18
Out: 1539.233+/-1548.600 χ²/NDF:22.8/21
All: 362.997+/-1115.515 χ²/NDF: 39.6/40


asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
100
105
110
115
120
125
130
135
140
145
Right In: 4481.518+/-1.243 χ²/NDF: 1362255.0/15
Left Out: 6280.849+/-2.636 χ²/NDF:18357.9/3
Right Out: 4286.125+/-1.204 χ²/NDF: 1549852.7/17
Left In: 6418.064+/-2.817 χ²/NDF:24033.5/2
Left: 6344.913+/-1.925 χ²/NDF: 43656.5/6
Right: 4380.692+/-0.865 χ²/NDF: 2924858.4/33
In: 4797.169+/-1.137 χ²/NDF:1781917.2/18
Out: 4630.347+/-1.095 χ²/NDF:2042022.6/21
All: 4710.607+/-0.789 χ²/NDF: 3835105.9/40




Right In: 5007.315+/-714.061 $\chi^2$/NDF: 7.7/15

Left Out: 4317.938+/-1152.937 $\chi^2$/NDF:2.1/3

Right Out: 3989.193+/-719.024 $\chi^2$/NDF: 17.4/17

Left In: 6780.856+/-1194.908 $\chi^2$/NDF:2.3/2

Left: 5505.382+/-829.691 $\chi^2$/NDF: 6.5/6

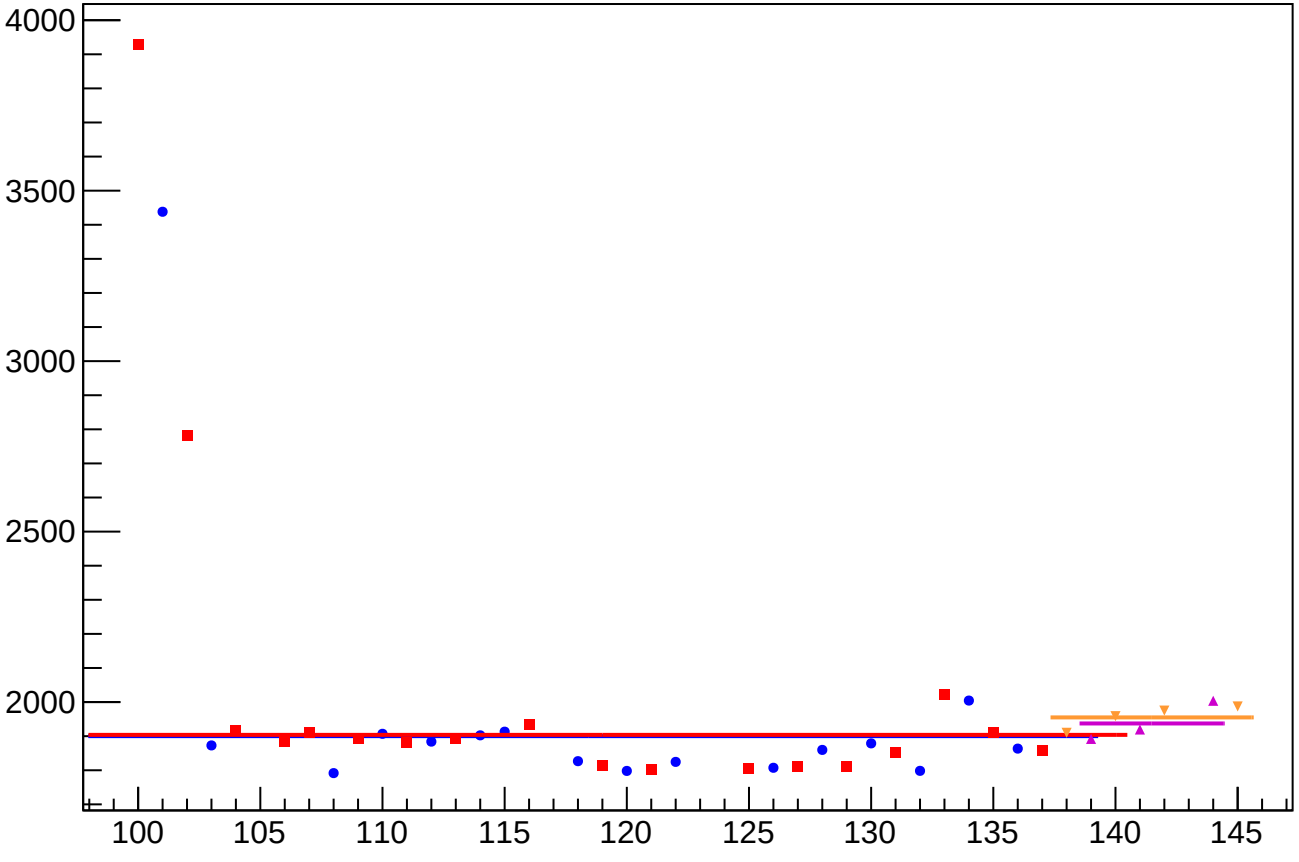
Right: 4501.780+/-506.663 $\chi^2$/NDF: 26.0/33

In: 5474.005+/-612.954 $\chi^2$/NDF:11.5/18

Out: 4081.249+/-610.102 $\chi^2$/NDF:19.5/21

All: 4774.380+/-432.412 $\chi^2$/NDF: 33.6/40

dit_asym_us_avg_atlr_avg_avg_rms vs Slug, Sign Corrected




Right In: 1900.111+/-0.505 $\chi^2$/NDF: 278448.2/15

Left Out: 1955.026+/-0.815 $\chi^2$/NDF:1392.0/3

Right Out: 1903.827+/-0.508 $\chi^2$/NDF: 150115.8/17

Left In: 1937.257+/-0.845 $\chi^2$/NDF:3104.5/2

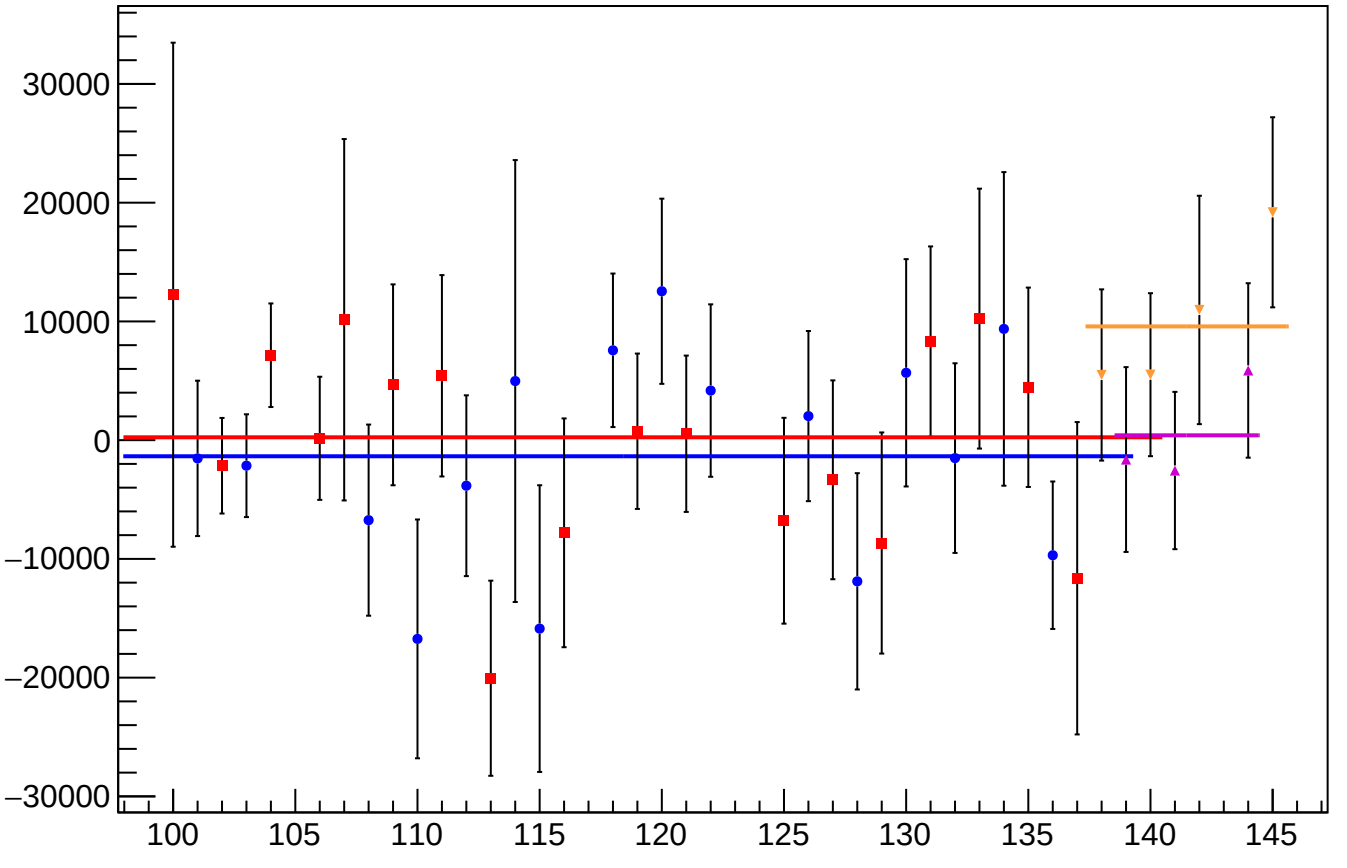
Left: 1946.459+/-0.587 $\chi^2$/NDF: 4725.5/6

Right: 1901.958+/-0.358 $\chi^2$/NDF: 428591.0/33

In: 1909.886+/-0.433 $\chi^2$/NDF:282976.9/18

Out: 1918.142+/-0.431 $\chi^2$/NDF:154349.2/21

All: 1914.036+/-0.306 $\chi^2$/NDF: 437508.4/40




Right In: -1356.615+/-1895.990 $\chi^2$/NDF: 14.7/15

Left Out: 9579.853+/-3866.756 $\chi^2$/NDF:2.1/3

Right Out: 241.153+/-1712.681 $\chi^2$/NDF: 15.7/17

Left In: 407.499+/-4158.322 $\chi^2$/NDF:0.8/2

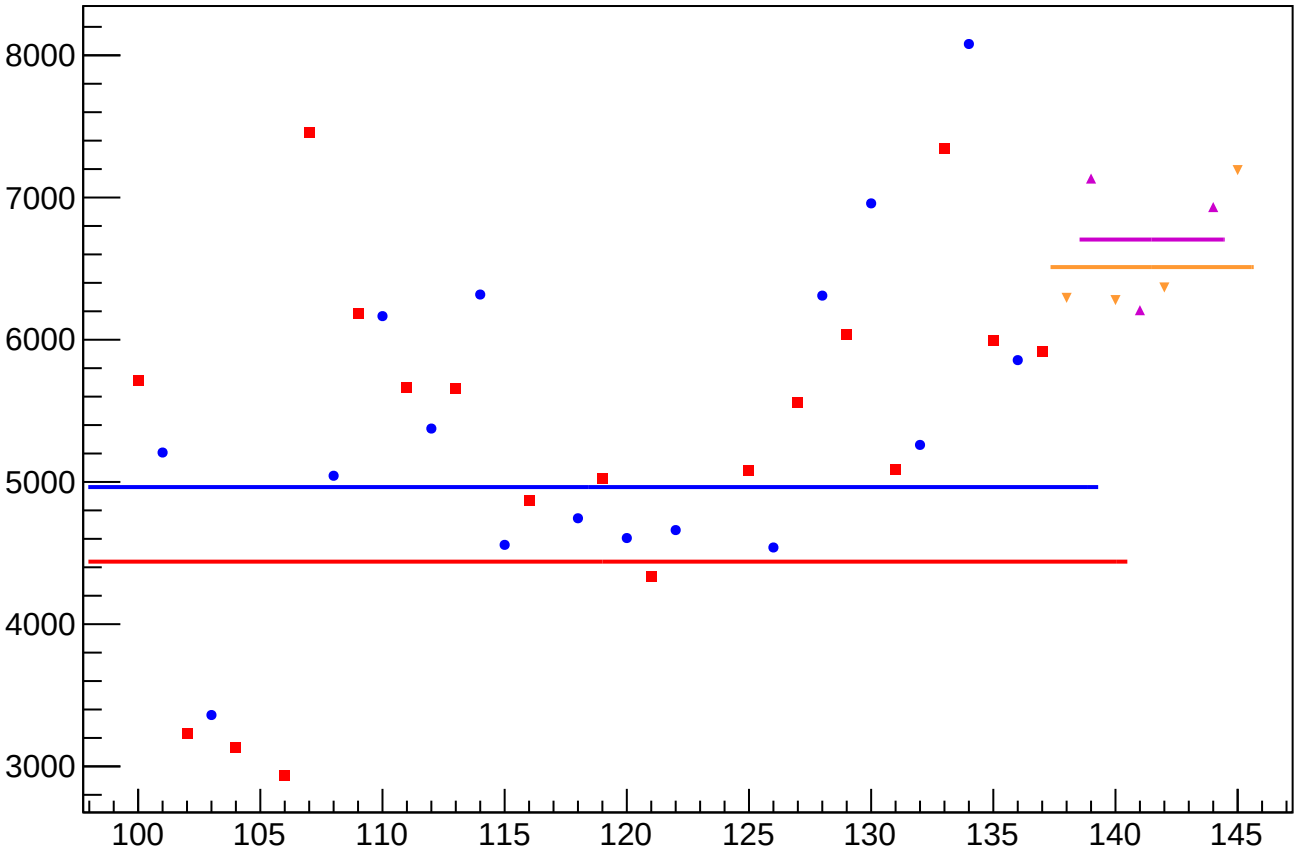
Left: 5326.486+/-2831.680 $\chi^2$/NDF: 5.6/6

Right: -476.778+/-1270.927 $\chi^2$/NDF: 30.8/33

In: -1052.992+/-1725.131 $\chi^2$/NDF:15.7/18

Out: 1772.765+/-1565.950 $\chi^2$/NDF:22.7/21

All: 496.242+/-1159.495 $\chi^2$/NDF: 39.9/40




Right In: 4963.998+/-1.341 $\chi^2$/NDF: 627377.0/15

Left Out: 6510.865+/-2.734 $\chi^2$/NDF:19042.9/3

Right Out: 4439.675+/-1.211 $\chi^2$/NDF: 1158510.1/17

Left In: 6704.478+/-2.940 $\chi^2$/NDF:19255.3/2

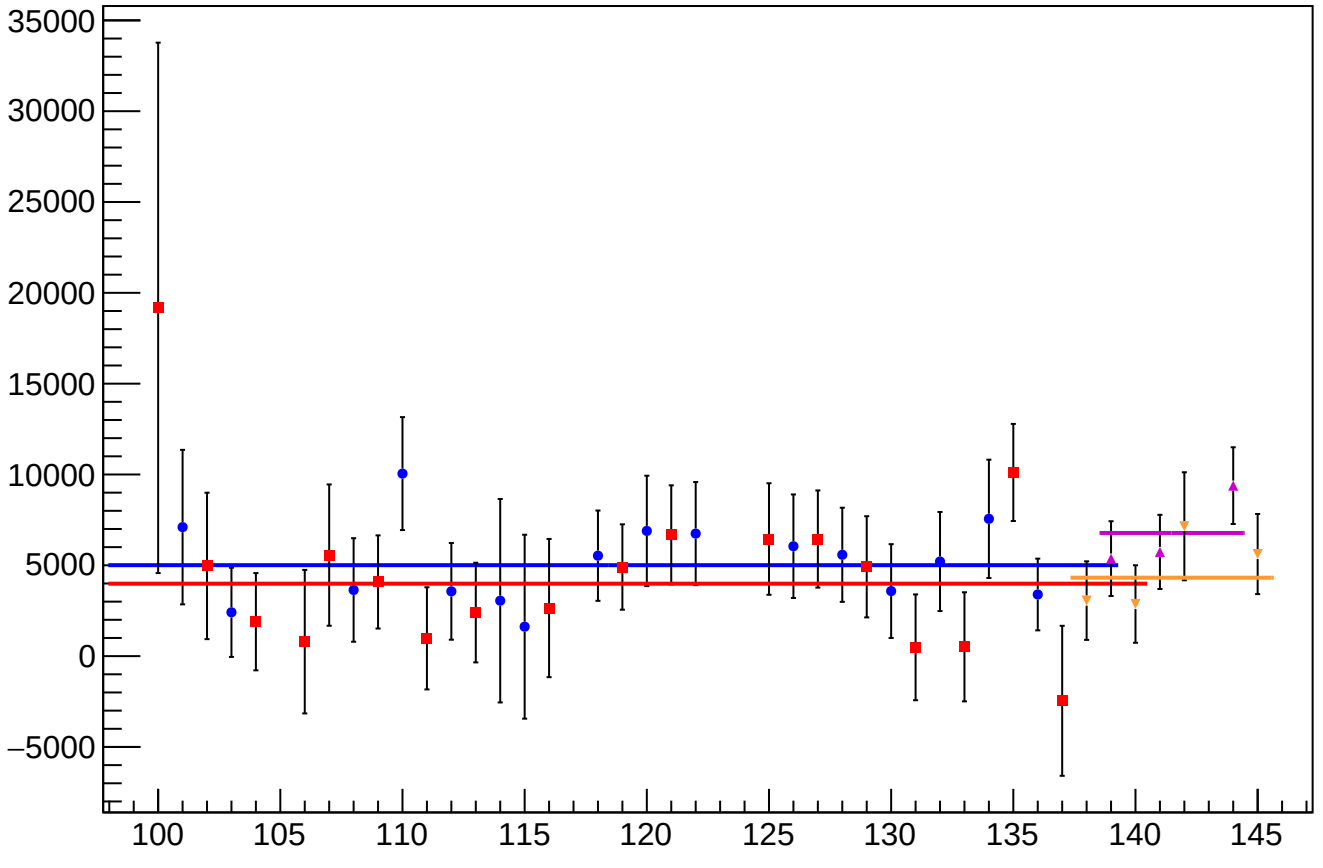
Left: 6600.646+/-2.002 $\chi^2$/NDF: 40623.5/6

Right: 4675.271+/-0.899 $\chi^2$/NDF: 1870112.9/33

In: 5263.554+/-1.220 $\chi^2$/NDF:936703.1/18

Out: 4779.364+/-1.107 $\chi^2$/NDF:1657263.6/21

All: 4998.094+/-0.820 $\chi^2$/NDF: 2680343.8/40




Right In: 5007.314+/-714.061 $\chi^2$/NDF: 7.7/15

Left Out: 4317.961+/-1152.937 $\chi^2$/NDF:2.1/3

Right Out: 3989.192+/-719.024 $\chi^2$/NDF: 17.4/17

Left In: 6780.849+/-1194.909 $\chi^2$/NDF:2.3/2

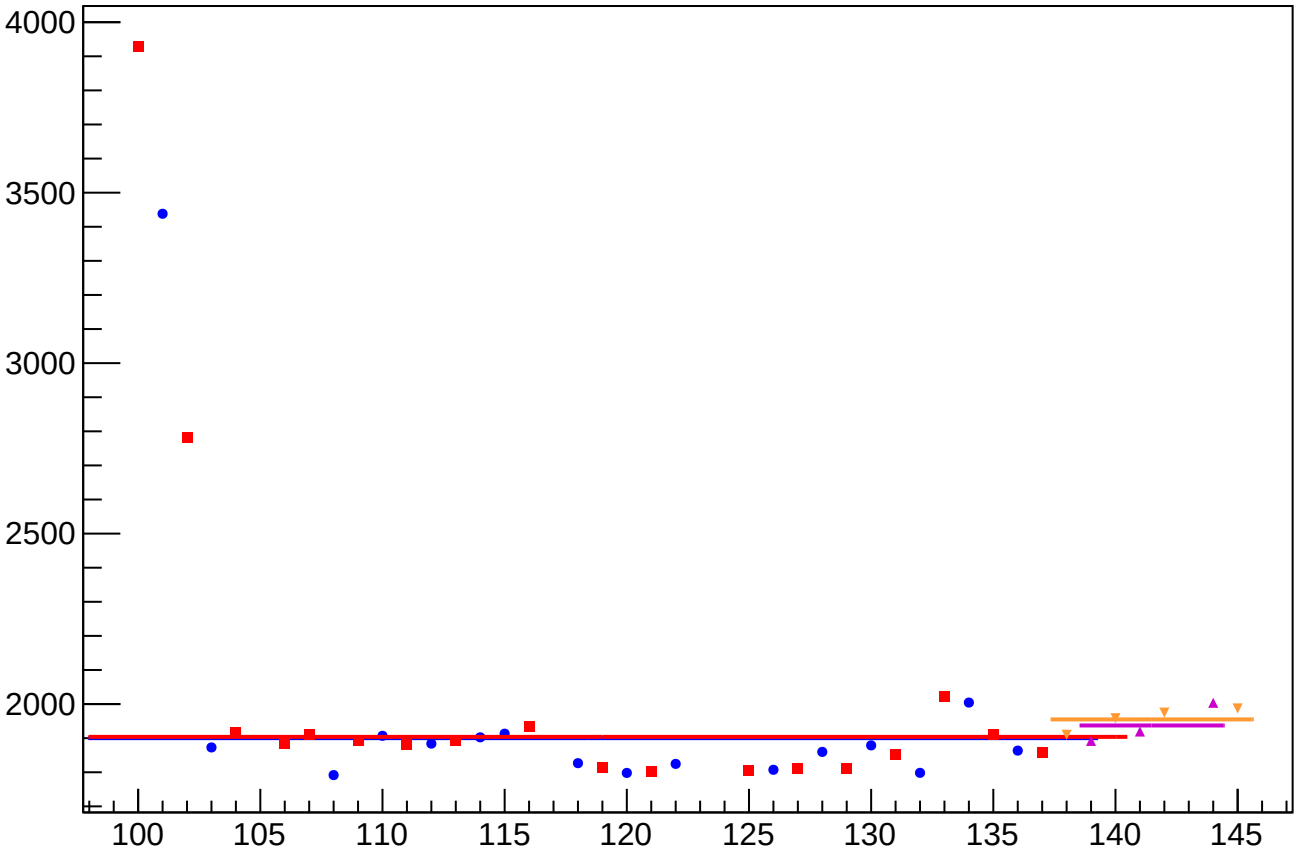
Left: 5505.391+/-829.691 $\chi^2$/NDF: 6.5/6

Right: 4501.779+/-506.663 $\chi^2$/NDF: 26.0/33

In: 5474.001+/-612.954 $\chi^2$/NDF:11.5/18

Out: 4081.255+/-610.102 $\chi^2$/NDF:19.5/21

All: 4774.381+/-432.412 $\chi^2$/NDF: 33.6/40




Right In: 1900.111+/-0.505 $\chi^2$/NDF: 278448.5/15

Left Out: 1955.028+/-0.815 $\chi^2$/NDF:1392.1/3

Right Out: 1903.826+/-0.508 $\chi^2$/NDF: 150115.1/17

Left In: 1937.258+/-0.845 $\chi^2$/NDF:3104.6/2

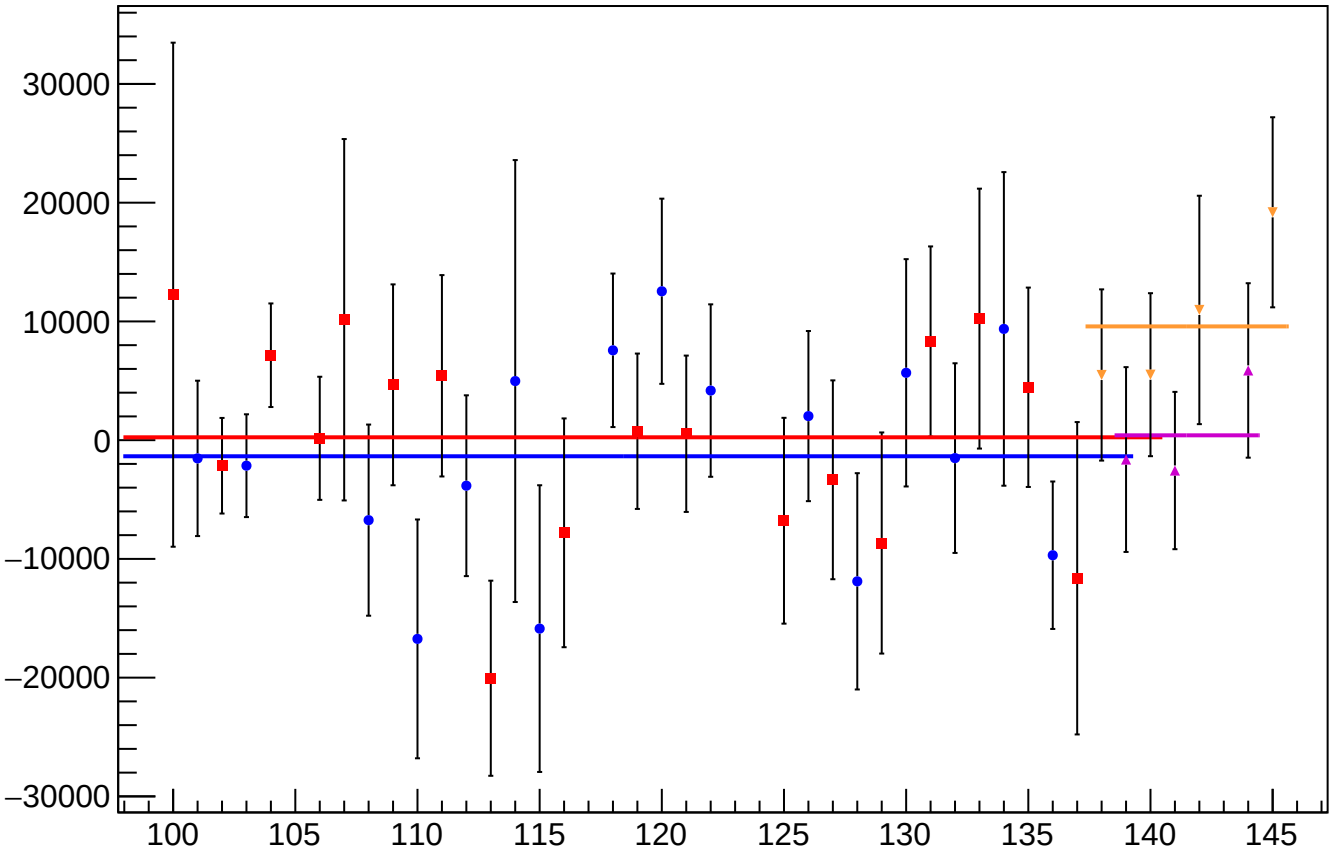
Left: 1946.461+/-0.587 $\chi^2$/NDF: 4725.7/6

Right: 1901.958+/-0.358 $\chi^2$/NDF: 428590.5/33

In: 1909.886+/-0.433 $\chi^2$/NDF:282977.3/18

Out: 1918.142+/-0.431 $\chi^2$/NDF:154348.8/21

All: 1914.036+/-0.306 $\chi^2$/NDF: 437508.6/40




Right In: -1356.604+/-1895.985 $\chi^2$/NDF: 14.7/15

Left Out: 9579.876+/-3866.763 $\chi^2$/NDF:2.1/3

Right Out: 241.155+/-1712.677 $\chi^2$/NDF: 15.7/17

Left In: 407.492+/-4158.329 $\chi^2$/NDF:0.8/2

Left: 5326.494+/-2831.685 $\chi^2$/NDF: 5.6/6

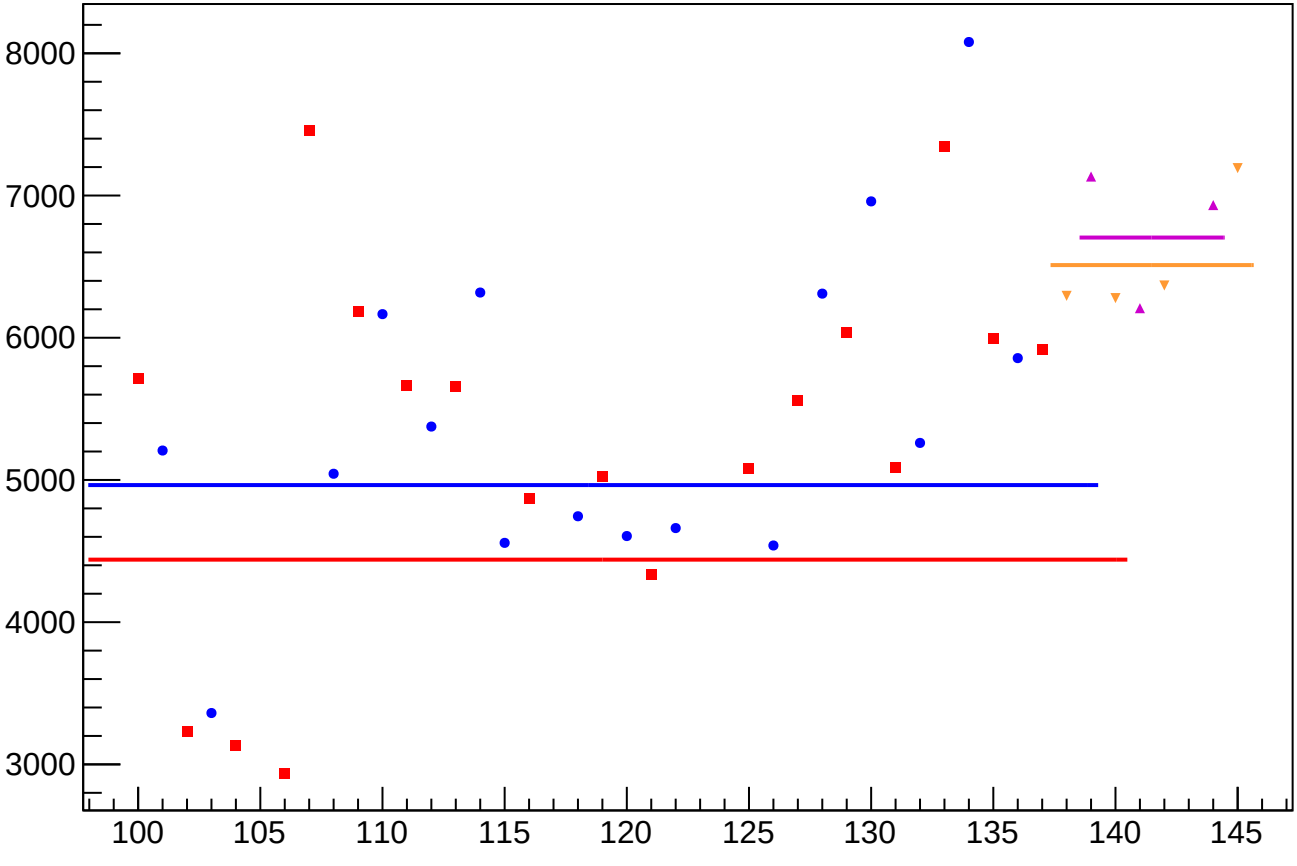
Right: -476.773+/-1270.924 $\chi^2$/NDF: 30.8/33

In: -1052.986+/-1725.128 $\chi^2$/NDF:15.7/18

Out: 1772.758+/-1565.947 $\chi^2$/NDF:22.7/21

All: 496.241+/-1159.493 $\chi^2$/NDF: 39.9/40

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: 6510.878+/-2.734 $\chi^2$/NDF:19043.2/3

Right Out: 4439.663+/-1.211 $\chi^2$/NDF: 1158509.7/17

Left In: 6704.489+/-2.940 $\chi^2$/NDF:19255.8/2

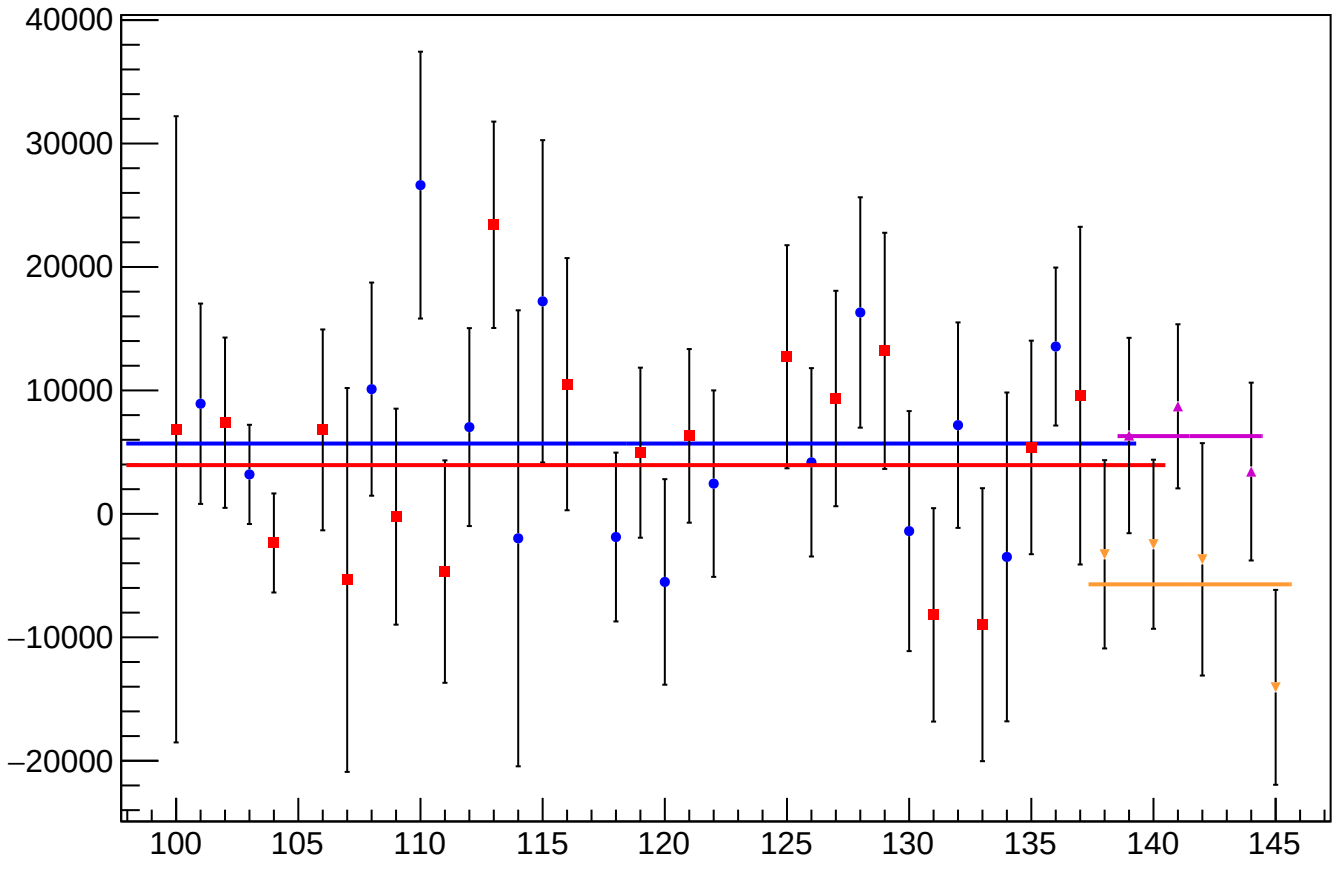
Left: 6600.658+/-2.002 $\chi^2$/NDF: 40624.1/6

Right: 4675.259+/-0.899 $\chi^2$/NDF: 1870114.9/33

In: 5263.543+/-1.220 $\chi^2$/NDF:936713.6/18

Out: 4779.354+/-1.107 $\chi^2$/NDF:1657273.4/21

All: 4998.084+/-0.820 $\chi^2$/NDF: 2680364.0/40




Right In: 5697.218+/-1959.214 $\chi^2$/NDF: 12.6/15

Left Out: -5707.380+/-3897.150 $\chi^2$/NDF:1.5/3

Right Out: 3949.394+/-1920.582 $\chi^2$/NDF: 16.1/17

Left In: 6299.726+/-4156.704 $\chi^2$/NDF:0.3/2

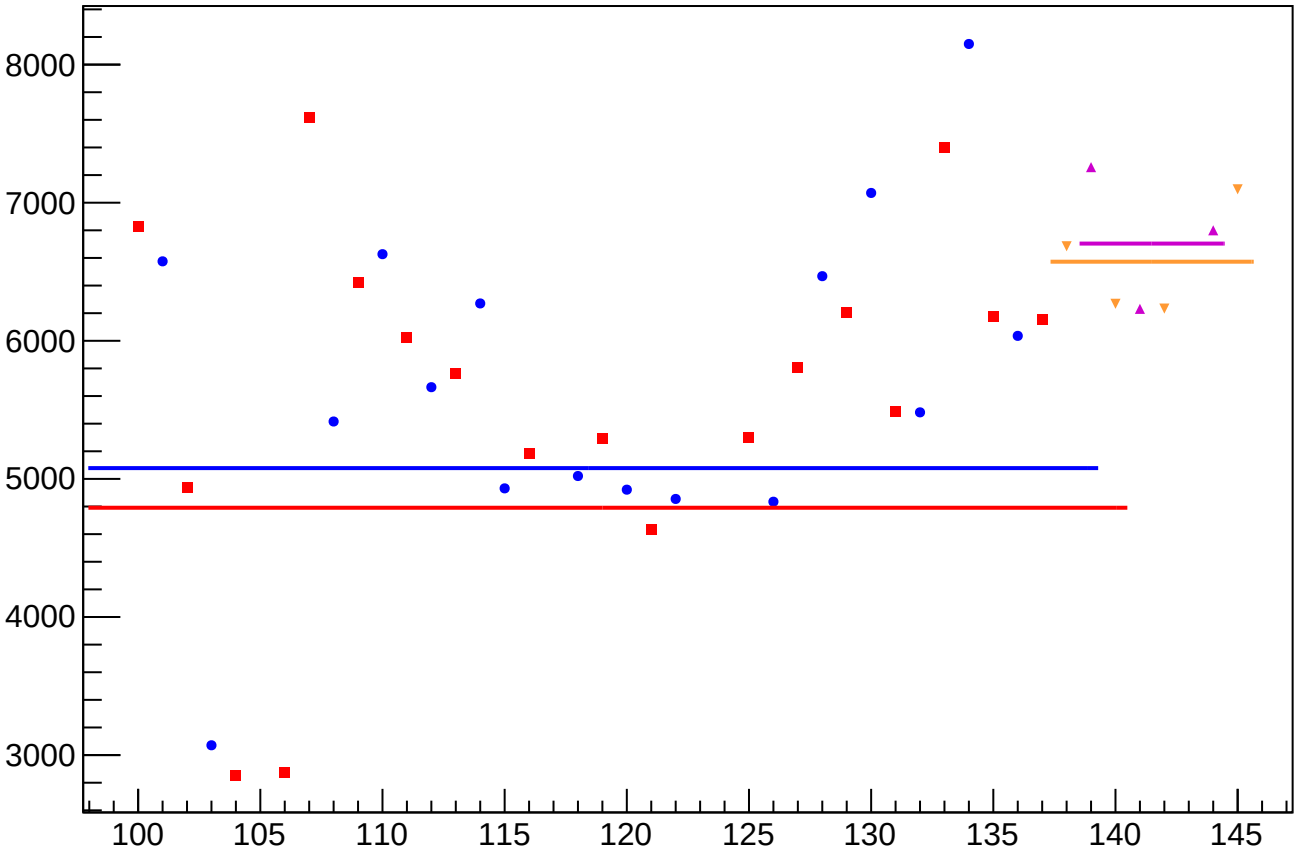
Left: -90.383+/-2843.034 $\chi^2$/NDF: 6.2/6

Right: 4805.905+/-1371.511 $\chi^2$/NDF: 29.2/33

In: 5806.740+/-1772.221 $\chi^2$/NDF:12.9/18

Out: 2062.365+/-1722.742 $\chi^2$/NDF:22.6/21

All: 3881.553+/-1235.285 $\chi^2$/NDF: 37.8/40




Right In: 5078.157+/-1.385 $\chi^2$/NDF: 919209.4/15

Left Out: 6572.796+/-2.756 $\chi^2$/NDF:15808.5/3

Right Out: 4791.154+/-1.331 $\chi^2$/NDF: 1162455.3/17

Left In: 6703.998+/-2.939 $\chi^2$/NDF:20250.0/2

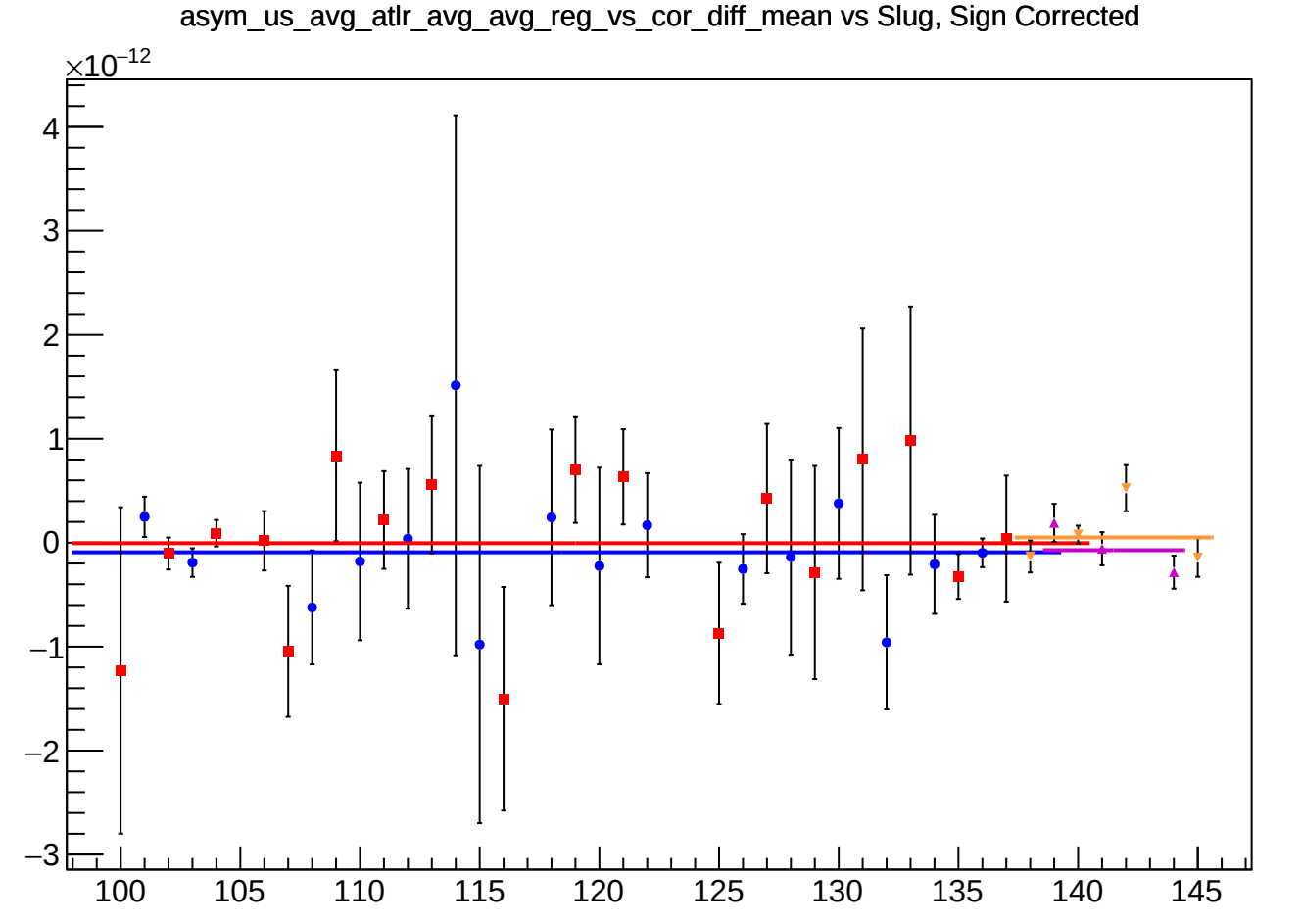
Left: 6634.173+/-2.010 $\chi^2$/NDF: 37118.9/6

Right: 4928.883+/-0.960 $\chi^2$/NDF: 2103987.6/33

In: 5373.688+/-1.253 $\chi^2$/NDF:1189818.3/18

Out: 5128.047+/-1.198 $\chi^2$/NDF:1517224.1/21

All: 5245.377+/-0.866 $\chi^2$/NDF: 2727113.6/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:7.1/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.4/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.8/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 12.1/6

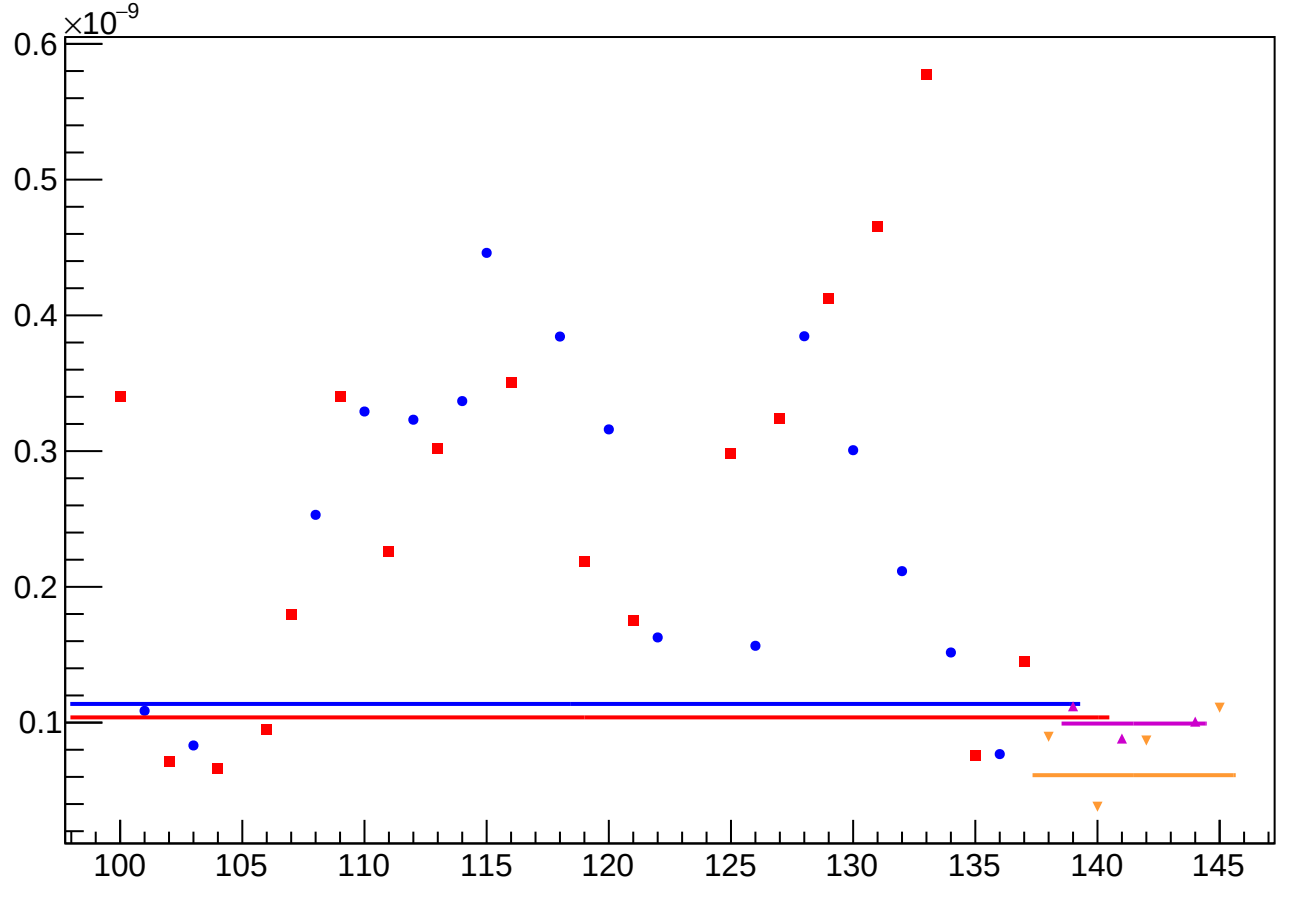
Right: -0.000+/-0.000 $\chi^2$/NDF: 26.2/33

In: -0.000+/-0.000 $\chi^2$/NDF:12.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:24.8/21

All: -0.000+/-0.000 $\chi^2$/NDF: 38.9/40

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1524807.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:384621.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2087534.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:19467.3/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 617118.9/6

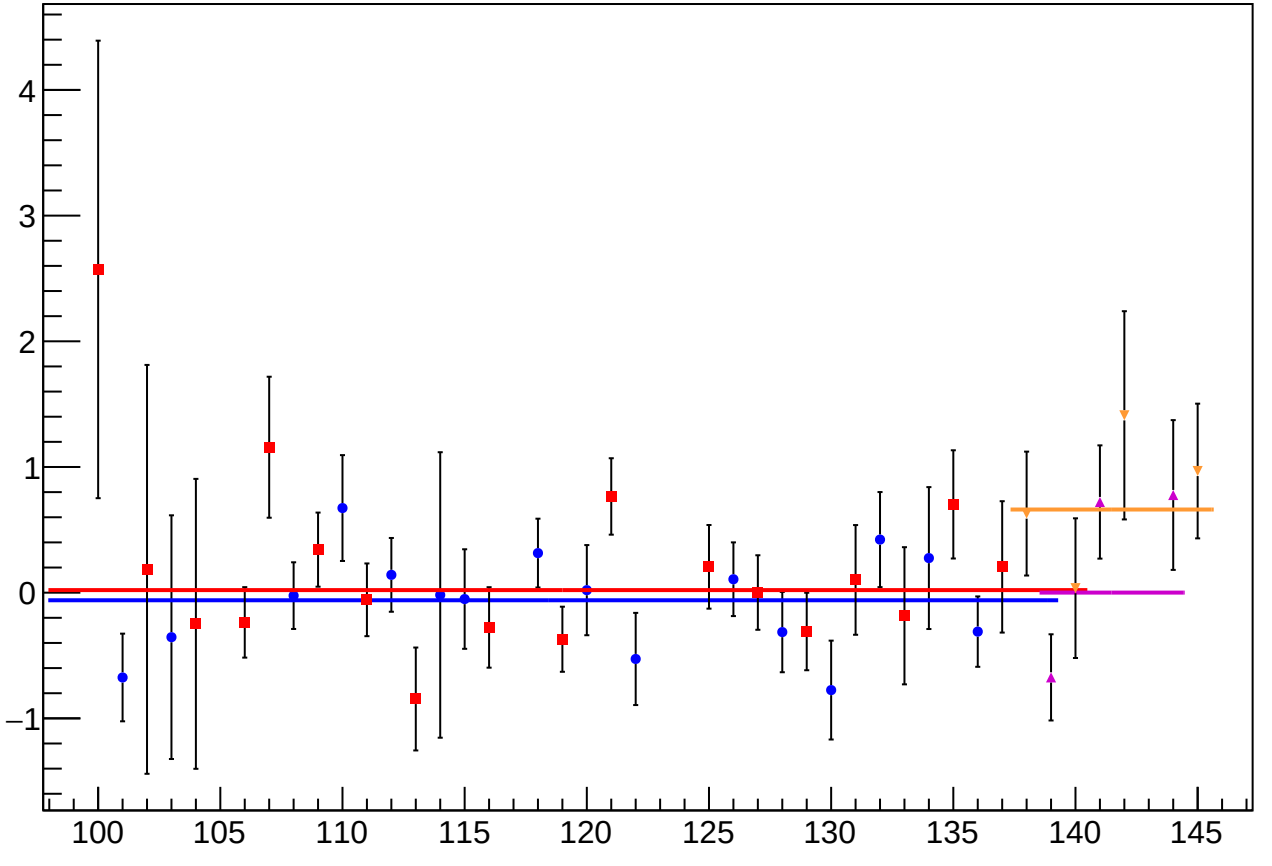
Right: 0.000+/-0.000 $\chi^2$/NDF: 3628704.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:1571732.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2822350.4/21

All: 0.000+/-0.000 $\chi^2$/NDF: 4659876.3/40

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.060+/-0.089 $\chi^2$/NDF: 17.3/15

Left Out: 0.662+/-0.285 $\chi^2$/NDF:2.4/3

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: 0.001+/-0.248 $\chi^2$/NDF:8.1/2

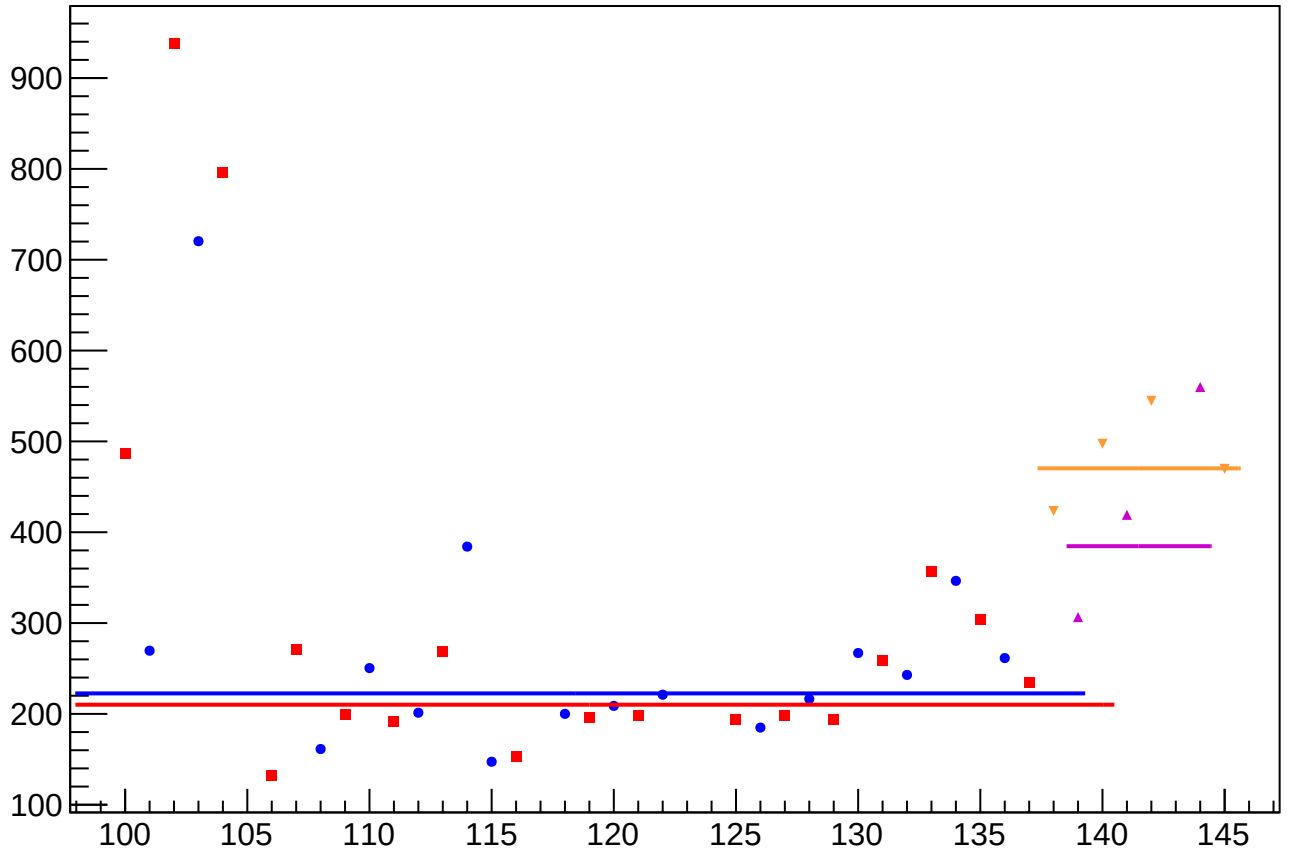
Left: 0.285+/-0.187 $\chi^2$/NDF: 13.6/6

Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.054+/-0.083 $\chi^2$/NDF:25.5/18

Out: 0.076+/-0.084 $\chi^2$/NDF:33.2/21

All: 0.011+/-0.059 $\chi^2$/NDF: 59.8/40




Right In: 222.569+/-0.063 $\chi^2$/NDF: 1018774.9/15

Left Out: 470.342+/-0.202 $\chi^2$/NDF:39002.9/3

Right Out: 210.123+/-0.062 $\chi^2$/NDF: 1548526.4/17

Left In: 384.648+/-0.175 $\chi^2$/NDF:288316.1/2

Left: 421.560+/-0.132 $\chi^2$/NDF: 430104.3/6

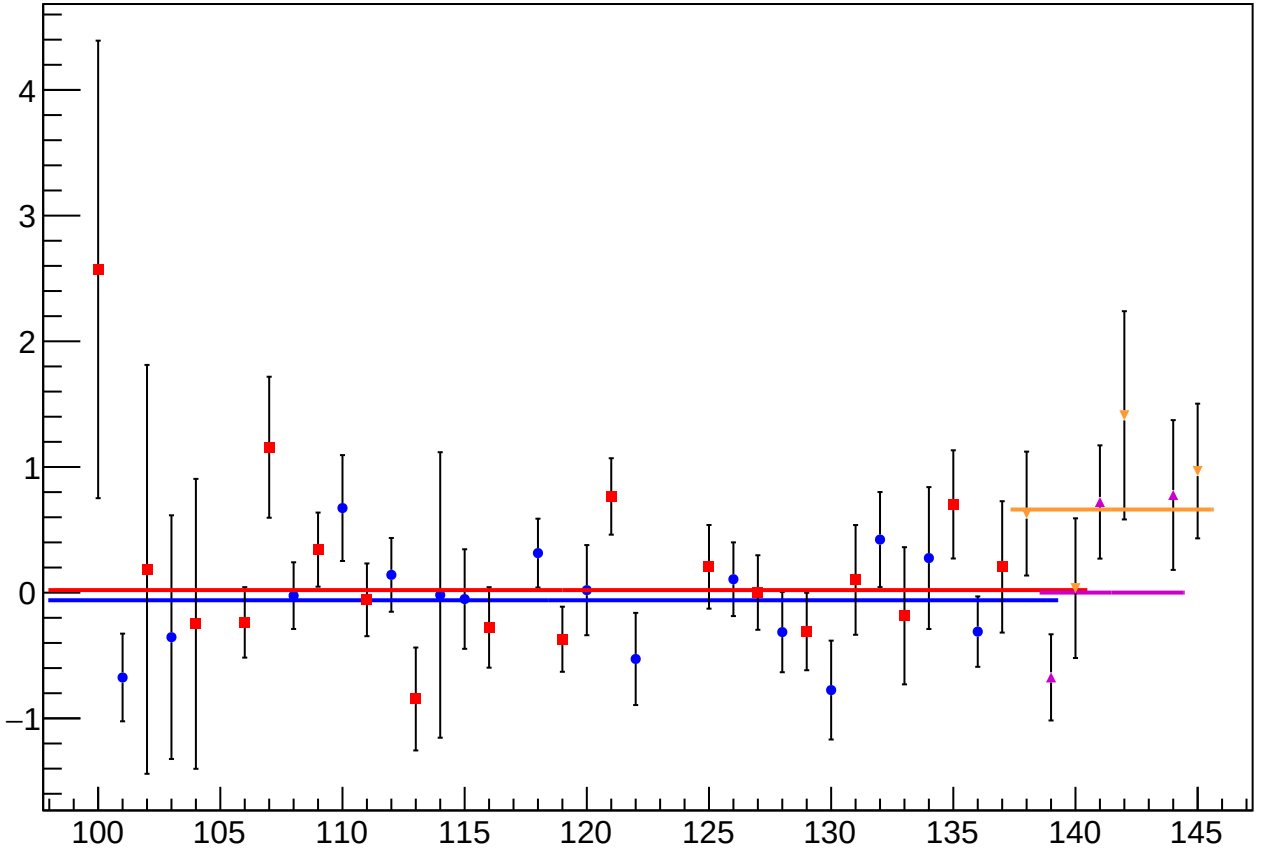
Right: 216.259+/-0.044 $\chi^2$/NDF: 2587282.3/33

In: 240.924+/-0.059 $\chi^2$/NDF:2064063.8/18

Out: 232.476+/-0.059 $\chi^2$/NDF:3109452.0/21

All: 236.705+/-0.042 $\chi^2$/NDF: 5183741.9/40

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: 0.662+/-0.285 $\chi^2$/NDF:2.4/3

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: 0.001+/-0.248 $\chi^2$/NDF:8.1/2

Left: 0.285+/-0.187 $\chi^2$/NDF: 13.6/6

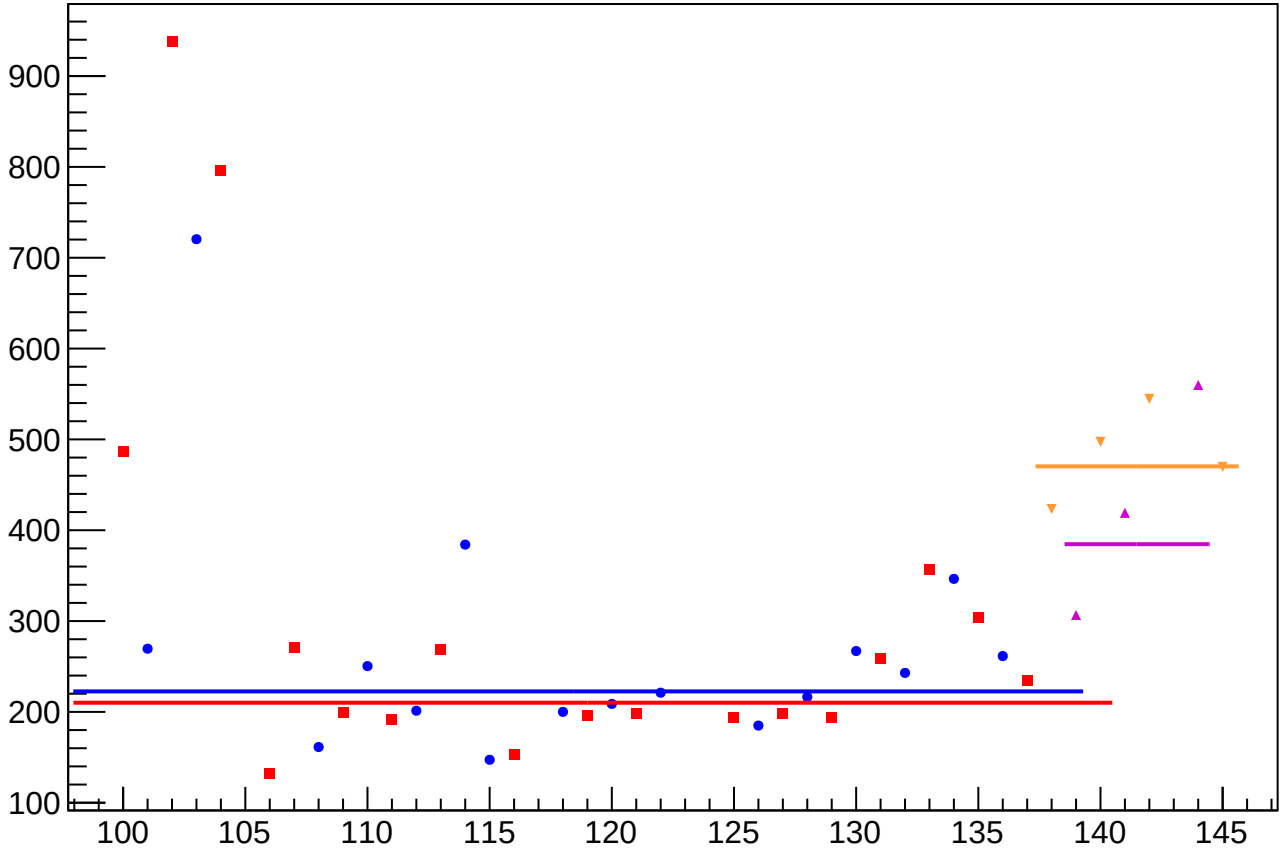
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.054+/-0.083 $\chi^2$/NDF:25.5/18

Out: 0.076+/-0.084 $\chi^2$/NDF:33.2/21

All: 0.011+/-0.059 $\chi^2$/NDF: 59.8/40

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: 470.342+/-0.202 $\chi^2$/NDF:39002.9/3

Right Out: 210.123+/-0.062 $\chi^2$/NDF: 1548526.4/17

Left In: 384.648+/-0.175 $\chi^2$/NDF:288316.1/2

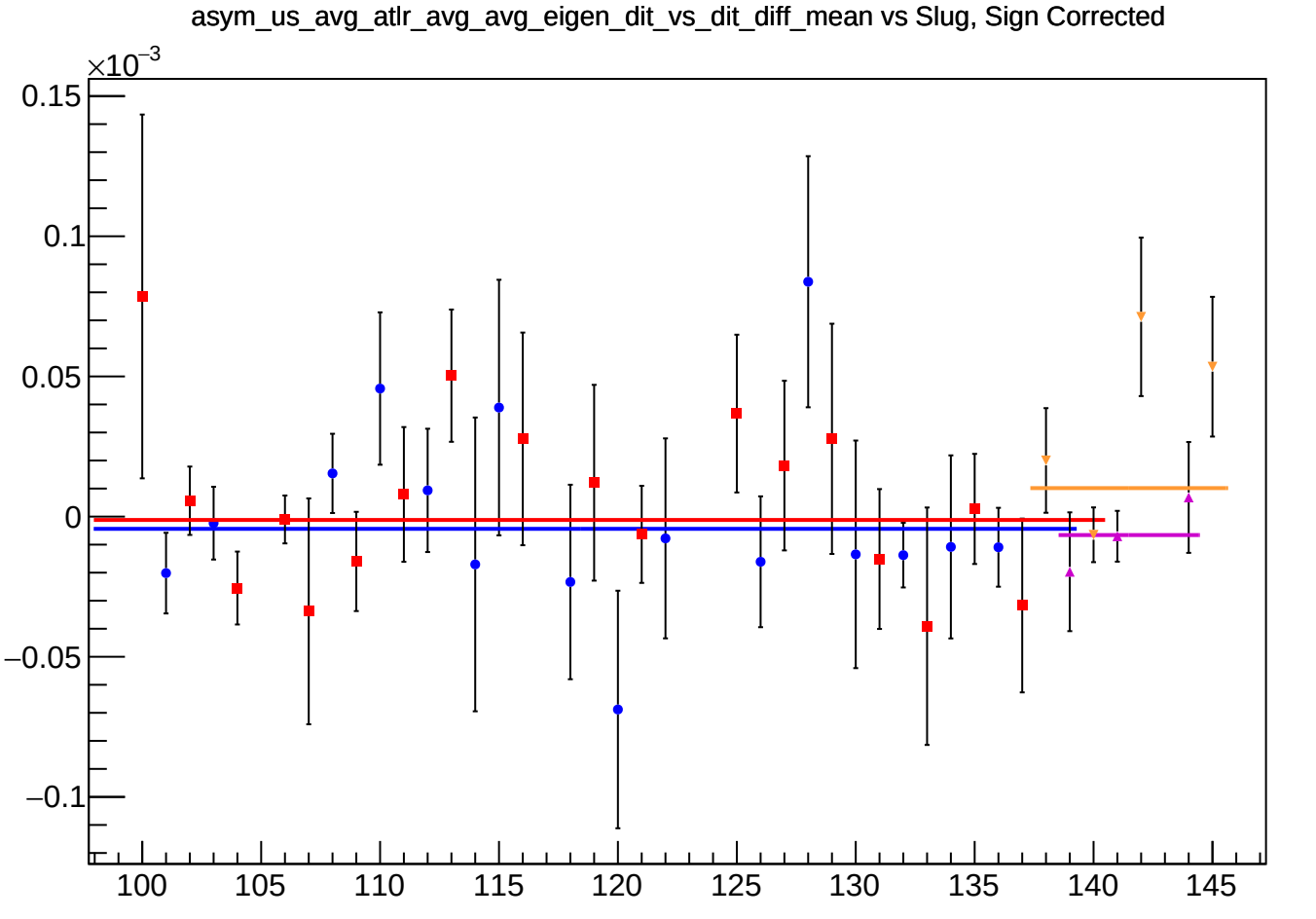
Left: 421.560+/-0.132 $\chi^2$/NDF: 430104.3/6

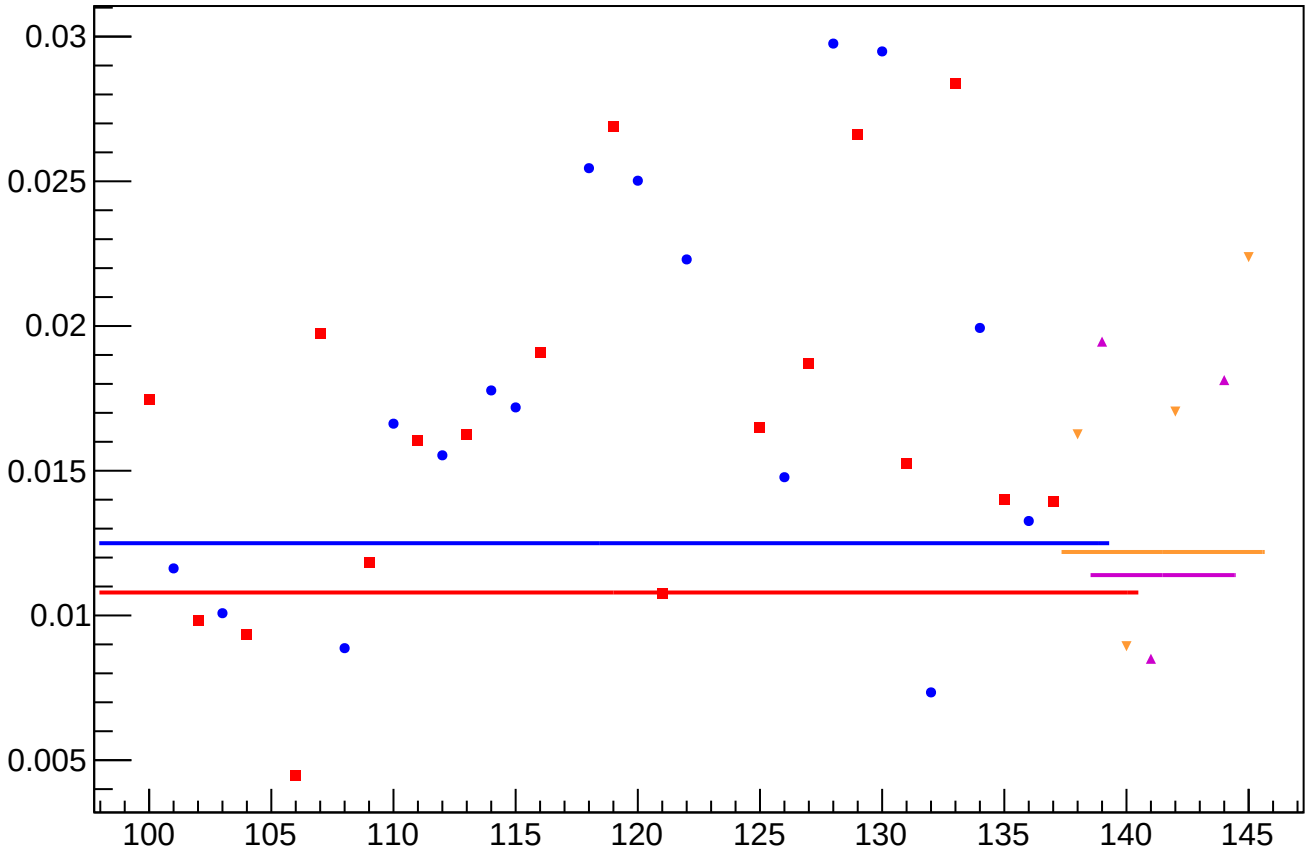
Right: 216.259+/-0.044 $\chi^2$/NDF: 2587282.3/33

In: 240.924+/-0.059 $\chi^2$/NDF:2064063.8/18

Out: 232.476+/-0.059 $\chi^2$/NDF:3109452.0/21

All: 236.705+/-0.042 $\chi^2$/NDF: 5183741.9/40


asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.15
0.1
0.05
0
−0.05
−0.1
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 15.6/15
Left Out: 0.000+/-0.000 χ²/NDF:10.9/3
Right Out: -0.000+/-0.000 χ²/NDF: 17.2/17
Left In: -0.000+/-0.000 χ²/NDF:0.8/2
Left: 0.000+/-0.000 χ²/NDF: 14.0/6
Right: -0.000+/-0.000 χ²/NDF: 33.1/33
In: -0.000+/-0.000 χ²/NDF:16.5/18
Out: 0.000+/-0.000 χ²/NDF:29.7/21
All: -0.000+/-0.000 χ²/NDF: 47.6/40




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2114968.1/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:710141.6/3

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 2987826.3/17

Left In: 0.011+/-0.000 $\chi^2$/NDF:725855.0/2

Left: 0.012+/-0.000 $\chi^2$/NDF: 1446580.4/6

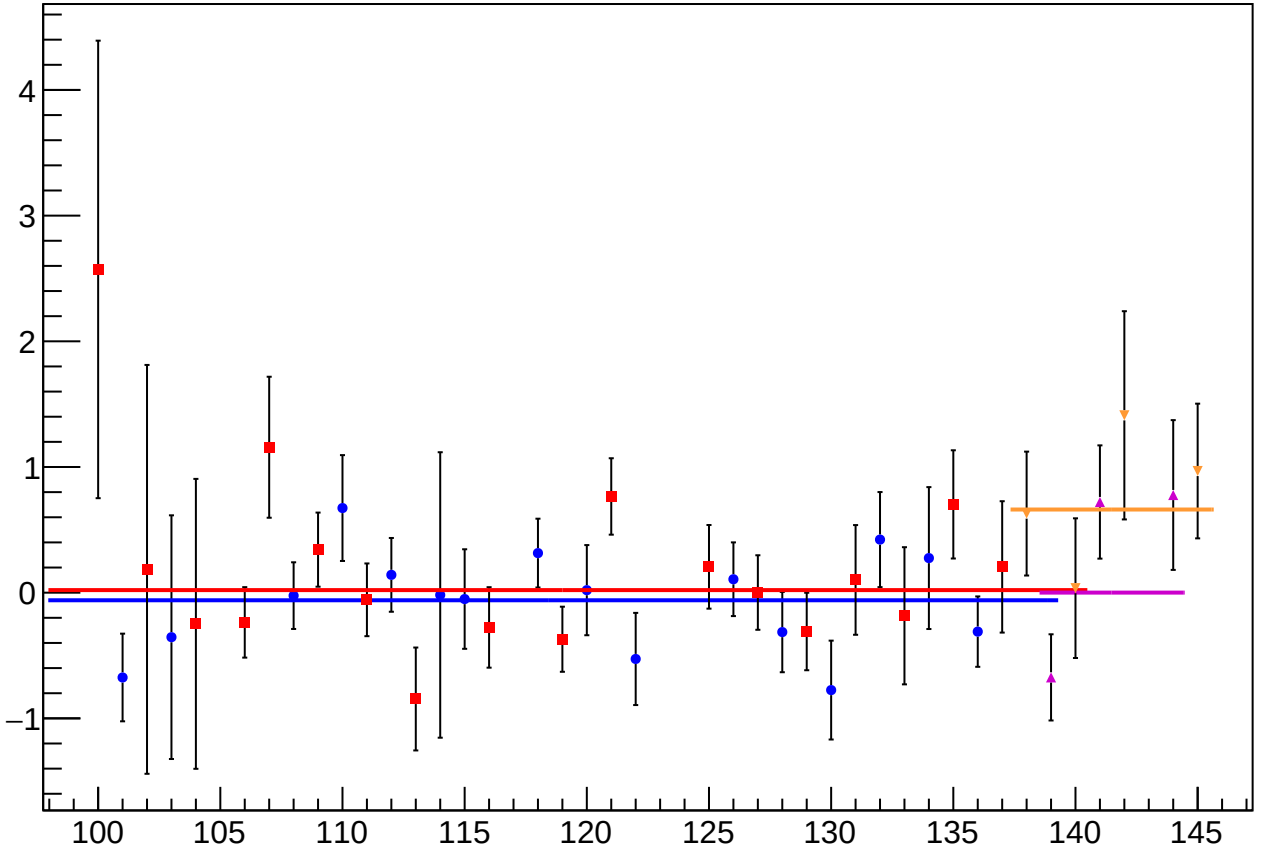
Right: 0.012+/-0.000 $\chi^2$/NDF: 5226474.2/33

In: 0.012+/-0.000 $\chi^2$/NDF:2869469.7/18

Out: 0.011+/-0.000 $\chi^2$/NDF:3745359.9/21

All: 0.012+/-0.000 $\chi^2$/NDF: 6675535.2/40

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: 0.662+/-0.285 $\chi^2$/NDF:2.4/3

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: 0.001+/-0.248 $\chi^2$/NDF:8.1/2

Left: 0.285+/-0.187 $\chi^2$/NDF: 13.6/6

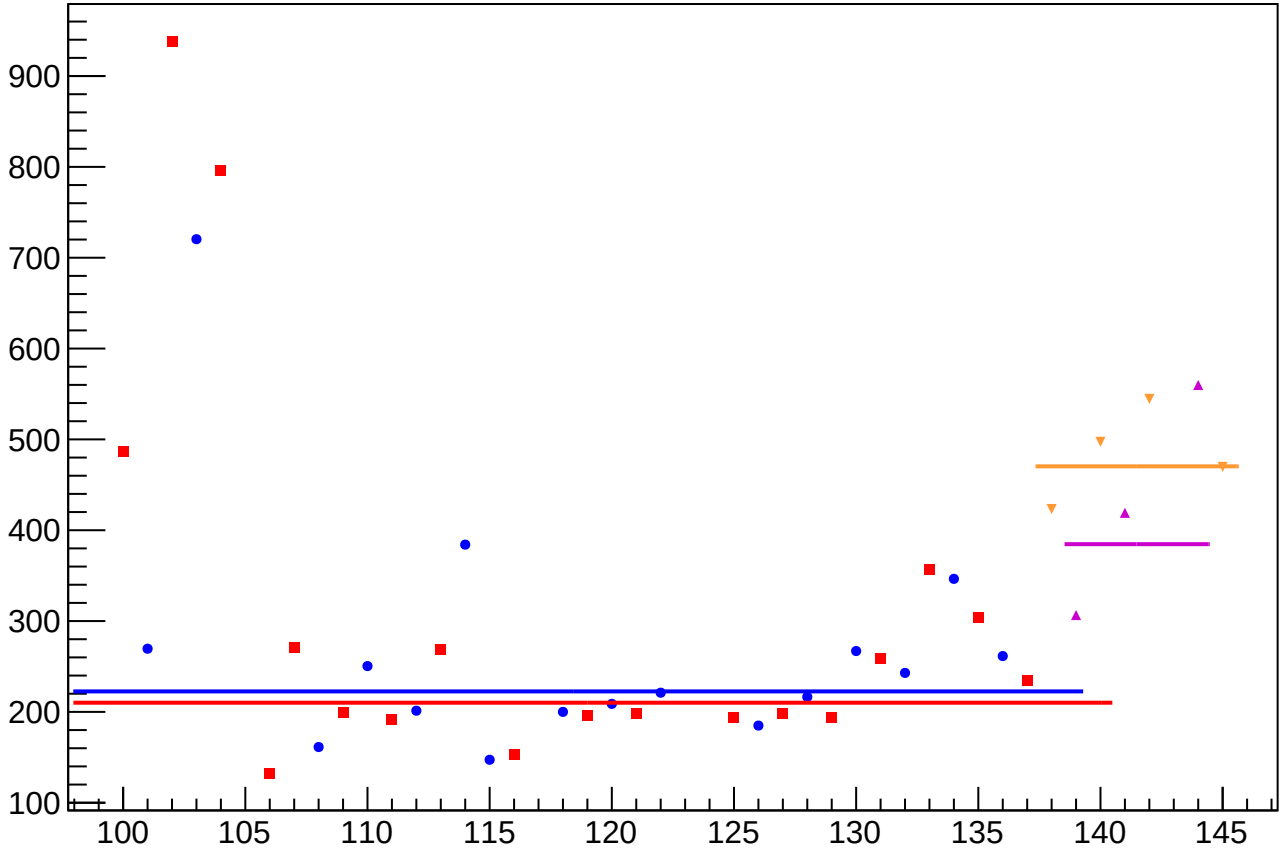
Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.054+/-0.083 $\chi^2$/NDF:25.5/18

Out: 0.076+/-0.084 $\chi^2$/NDF:33.2/21

All: 0.011+/-0.059 $\chi^2$/NDF: 59.8/40

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: 470.347+/-0.202 $\chi^2$/NDF:39003.7/3

Right Out: 210.120+/-0.062 $\chi^2$/NDF: 1548507.5/17

Left In: 384.655+/-0.175 $\chi^2$/NDF:288304.8/2

Left: 421.566+/-0.132 $\chi^2$/NDF: 430086.4/6

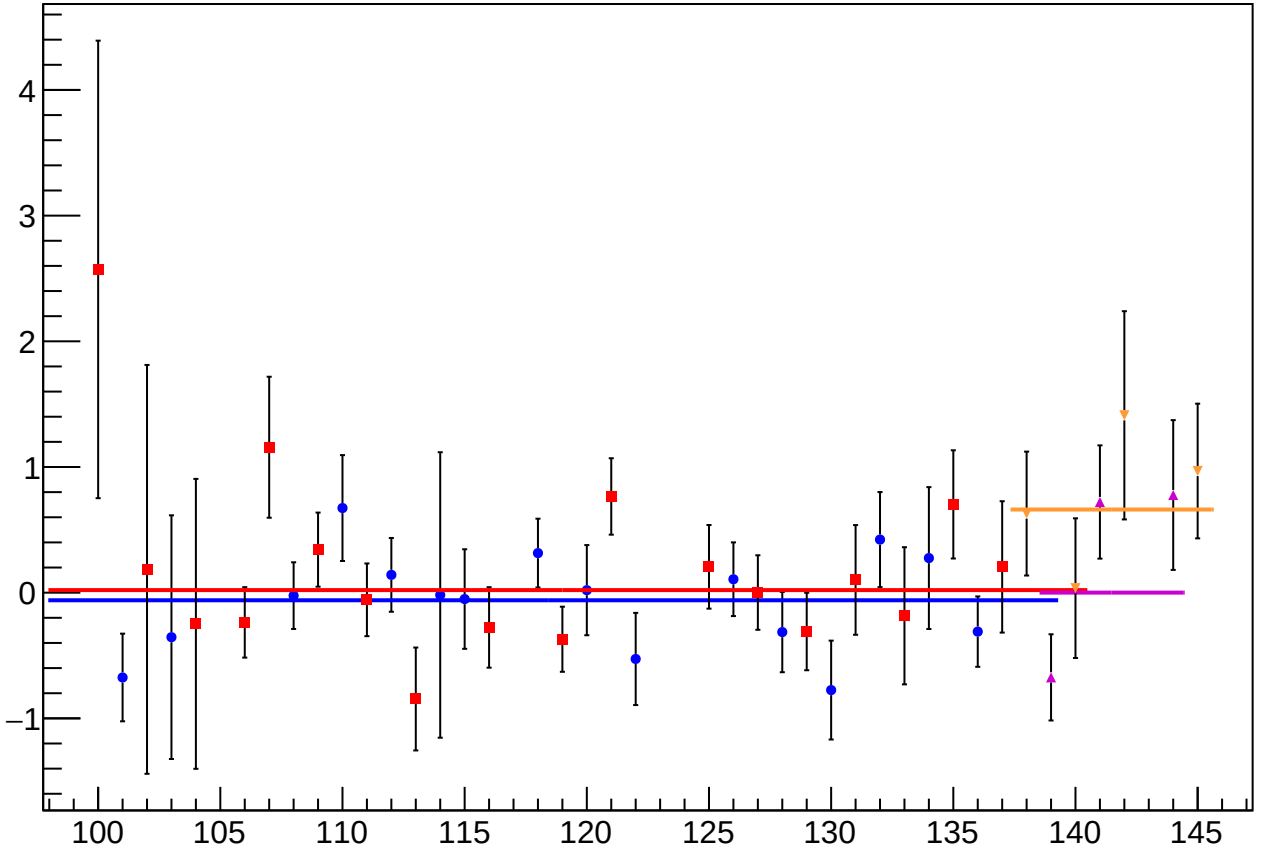
Right: 216.257+/-0.044 $\chi^2$/NDF: 2587251.9/33

In: 240.922+/-0.059 $\chi^2$/NDF:2064097.4/18

Out: 232.473+/-0.059 $\chi^2$/NDF:3109496.3/21

All: 236.703+/-0.042 $\chi^2$/NDF: 5183822.9/40

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: 0.662+/-0.285 $\chi^2$/NDF:2.4/3

Right Out: 0.020+/-0.087 $\chi^2$/NDF: 26.1/17

Left In: 0.001+/-0.248 $\chi^2$/NDF:8.1/2

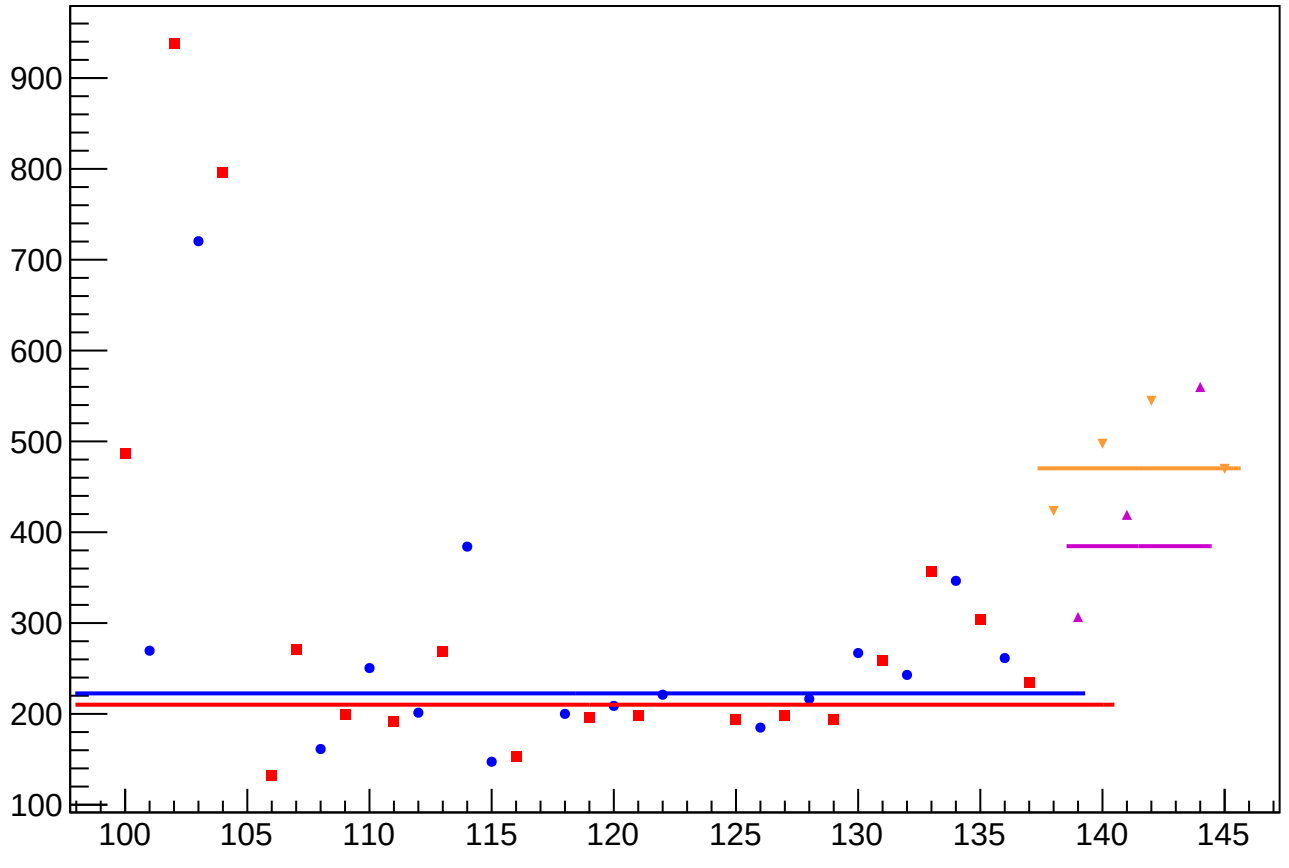
Left: 0.285+/-0.187 $\chi^2$/NDF: 13.6/6

Right: -0.019+/-0.062 $\chi^2$/NDF: 43.9/33

In: -0.054+/-0.083 $\chi^2$/NDF:25.5/18

Out: 0.076+/-0.084 $\chi^2$/NDF:33.2/21

All: 0.011+/-0.059 $\chi^2$/NDF: 59.8/40




Right In: 222.567+/-0.063 $\chi^2$/NDF: 1018760.3/15

Left Out: 470.347+/-0.202 $\chi^2$/NDF:39003.7/3

Right Out: 210.120+/-0.062 $\chi^2$/NDF: 1548507.5/17

Left In: 384.655+/-0.175 $\chi^2$/NDF:288304.8/2

Left: 421.566+/-0.132 $\chi^2$/NDF: 430086.4/6

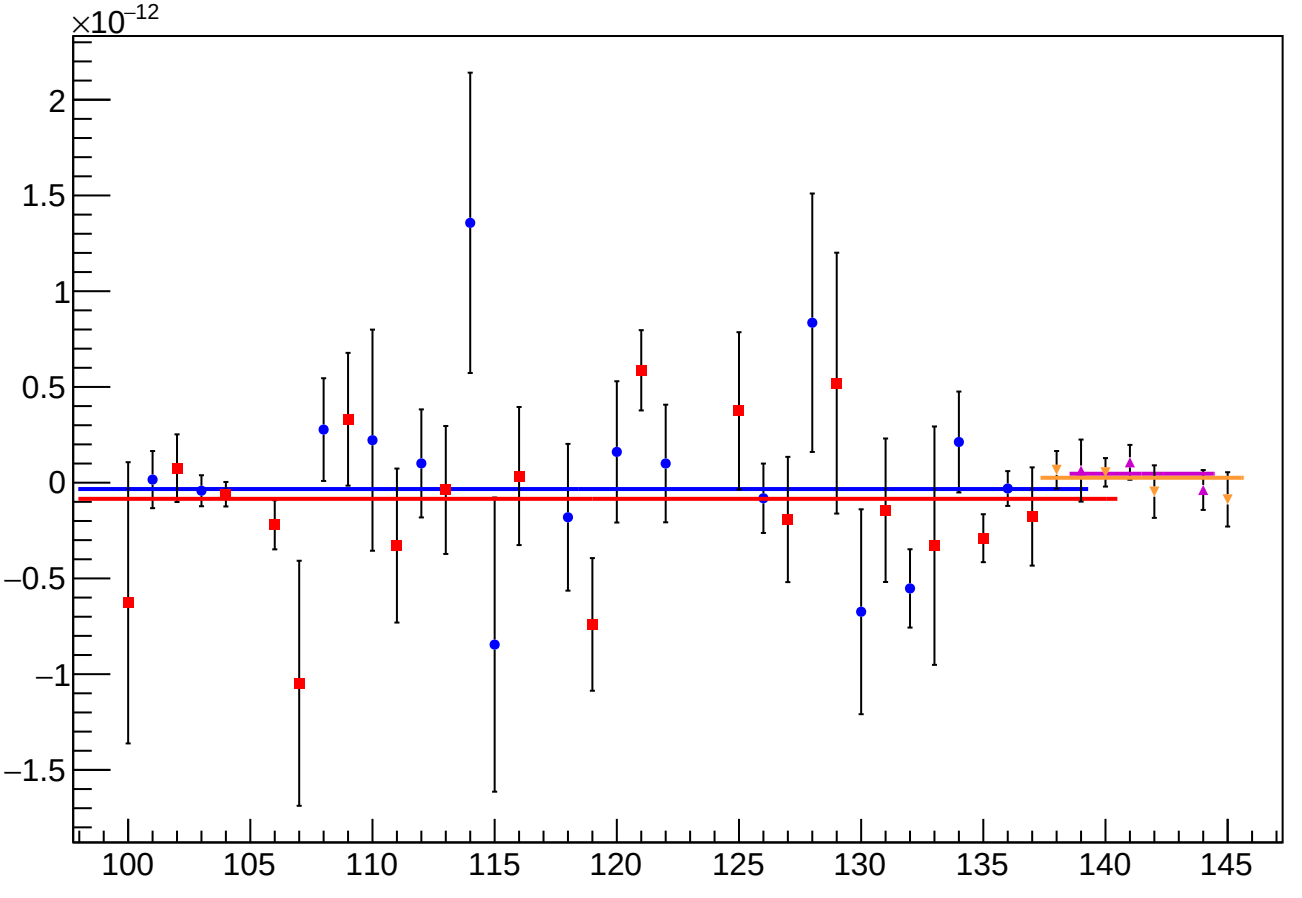
Right: 216.257+/-0.044 $\chi^2$/NDF: 2587251.9/33

In: 240.922+/-0.059 $\chi^2$/NDF:2064097.4/18

Out: 232.473+/-0.059 $\chi^2$/NDF:3109496.3/21

All: 236.703+/-0.042 $\chi^2$/NDF: 5183822.9/40

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.2/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.1/2

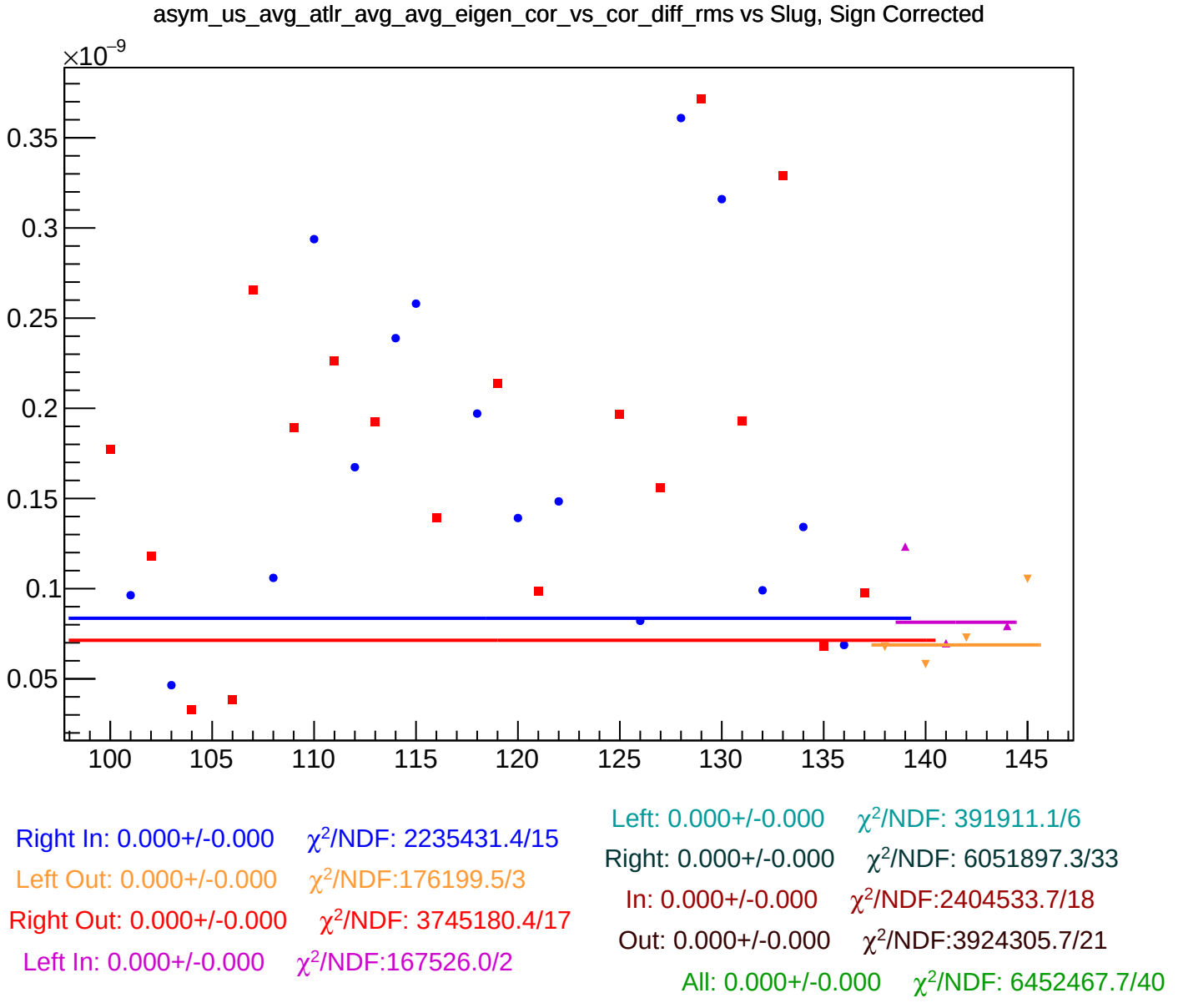
Left: 0.000+/-0.000 $\chi^2$/NDF: 2.4/6

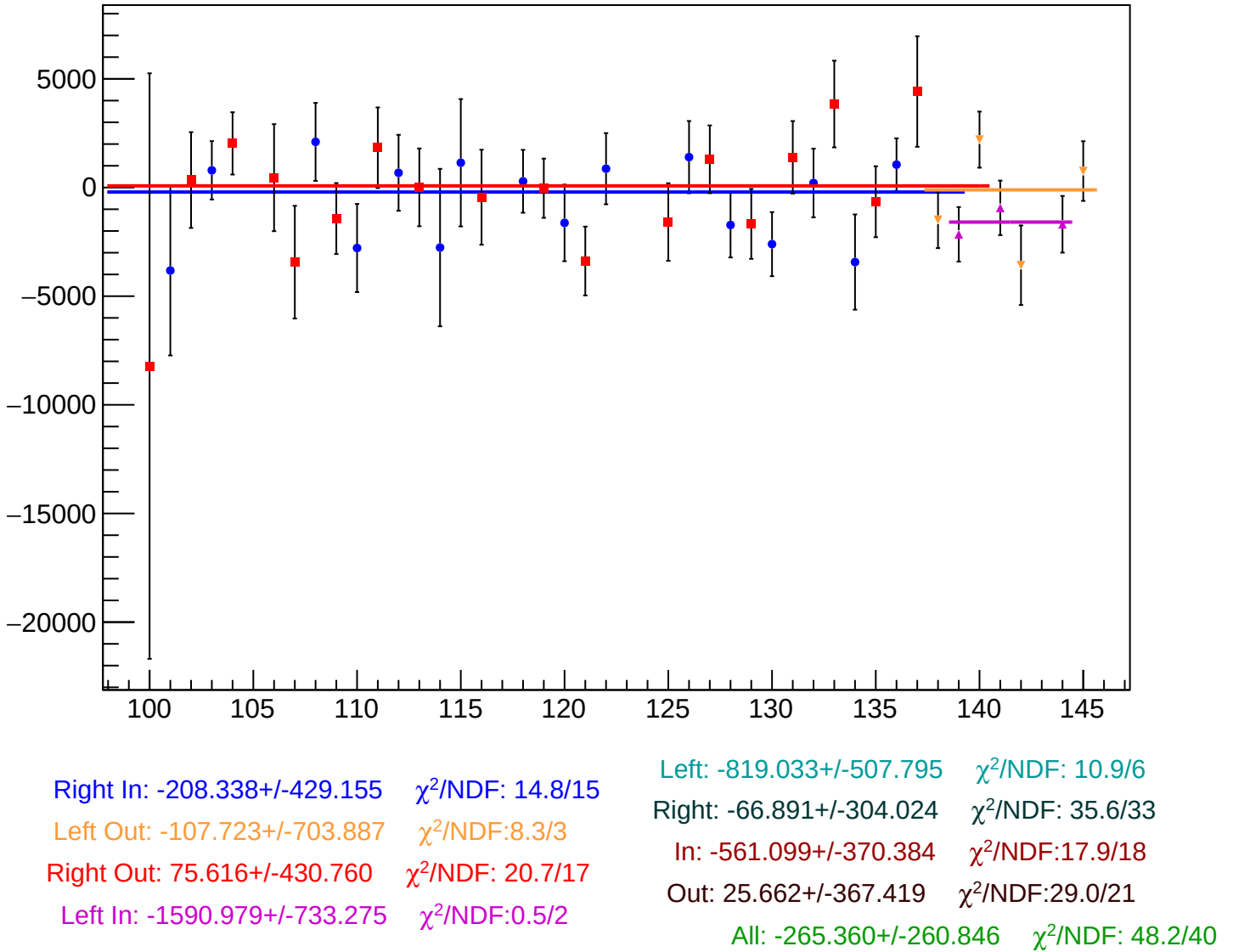
Right: -0.000+/-0.000 $\chi^2$/NDF: 43.7/33

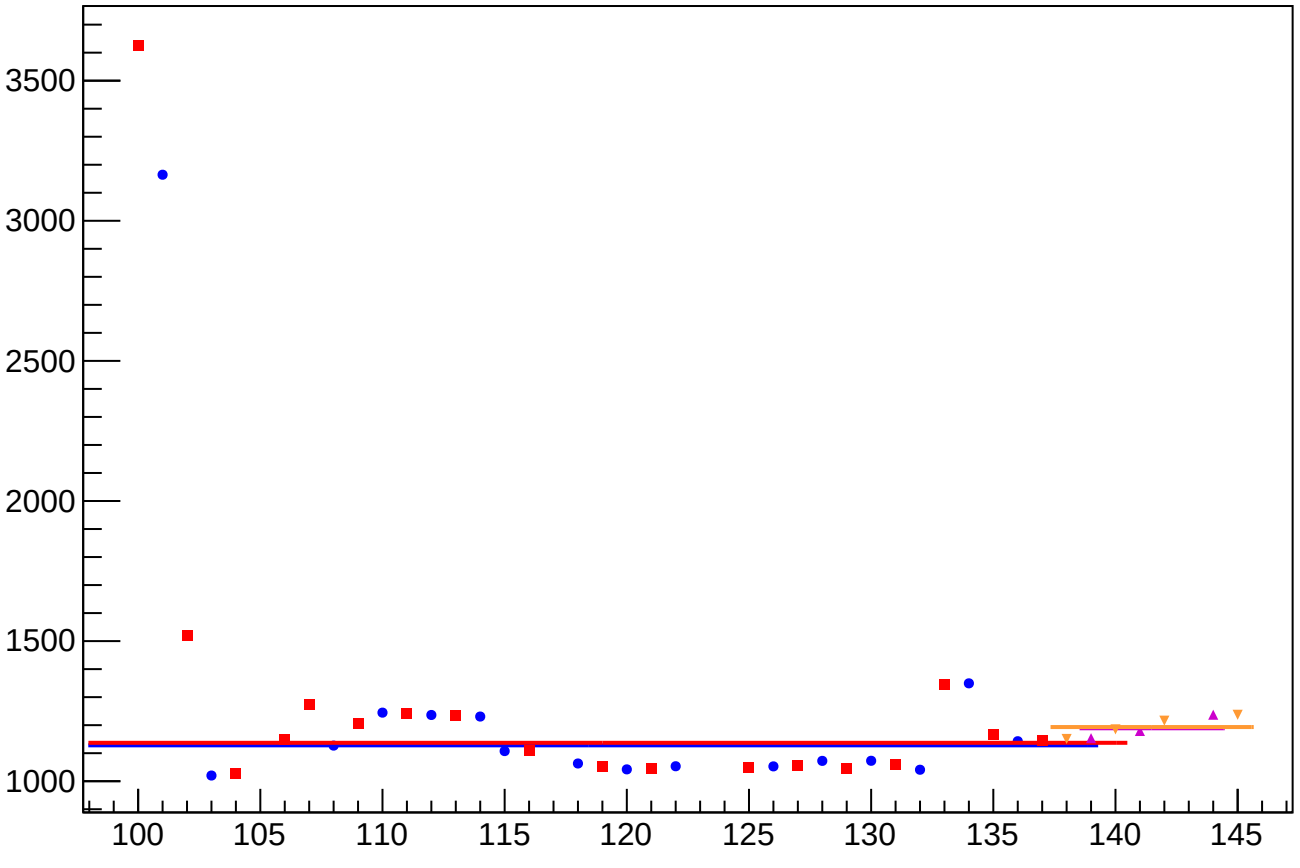
In: -0.000+/-0.000 $\chi^2$/NDF:19.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:29.7/21

All: -0.000+/-0.000 $\chi^2$/NDF: 49.5/40


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2235431.4/15
Left Out: 0.000+/-0.000 χ²/NDF:176199.5/3
Right Out: 0.000+/-0.000 χ²/NDF: 3745180.4/17
Left In: 0.000+/-0.000 χ²/NDF:167526.0/2
Left: 0.000+/-0.000 χ²/NDF: 391911.1/6
Right: 0.000+/-0.000 χ²/NDF: 6051897.3/33
In: 0.000+/-0.000 χ²/NDF:2404533.7/18
Out: 0.000+/-0.000 χ²/NDF:3924305.7/21
All: 0.000+/-0.000 χ²/NDF: 6452467.7/40


reg_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
100
105
110
115
120
125
130
135
140
145
Right In: -208.338+/-429.155 χ²/NDF: 14.8/15
Left Out: -107.723+/-703.887 χ²/NDF:8.3/3
Right Out: 75.616+/-430.760 χ²/NDF: 20.7/17
Left In: -1590.979+/-733.275 χ²/NDF:0.5/2
Left: -819.033+/-507.795 χ²/NDF: 10.9/6
Right: -66.891+/-304.024 χ²/NDF: 35.6/33
In: -561.099+/-370.384 χ²/NDF:17.9/18
Out: 25.662+/-367.419 χ²/NDF:29.0/21
All: -265.360+/-260.846 χ²/NDF: 48.2/40




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621394.5/15

Left Out: 1193.270+/-0.498 $\chi^2$/NDF:4552.0/3

Right Out: 1137.041+/-0.304 $\chi^2$/NDF: 220086.1/17

Left In: 1188.883+/-0.519 $\chi^2$/NDF:4464.5/2

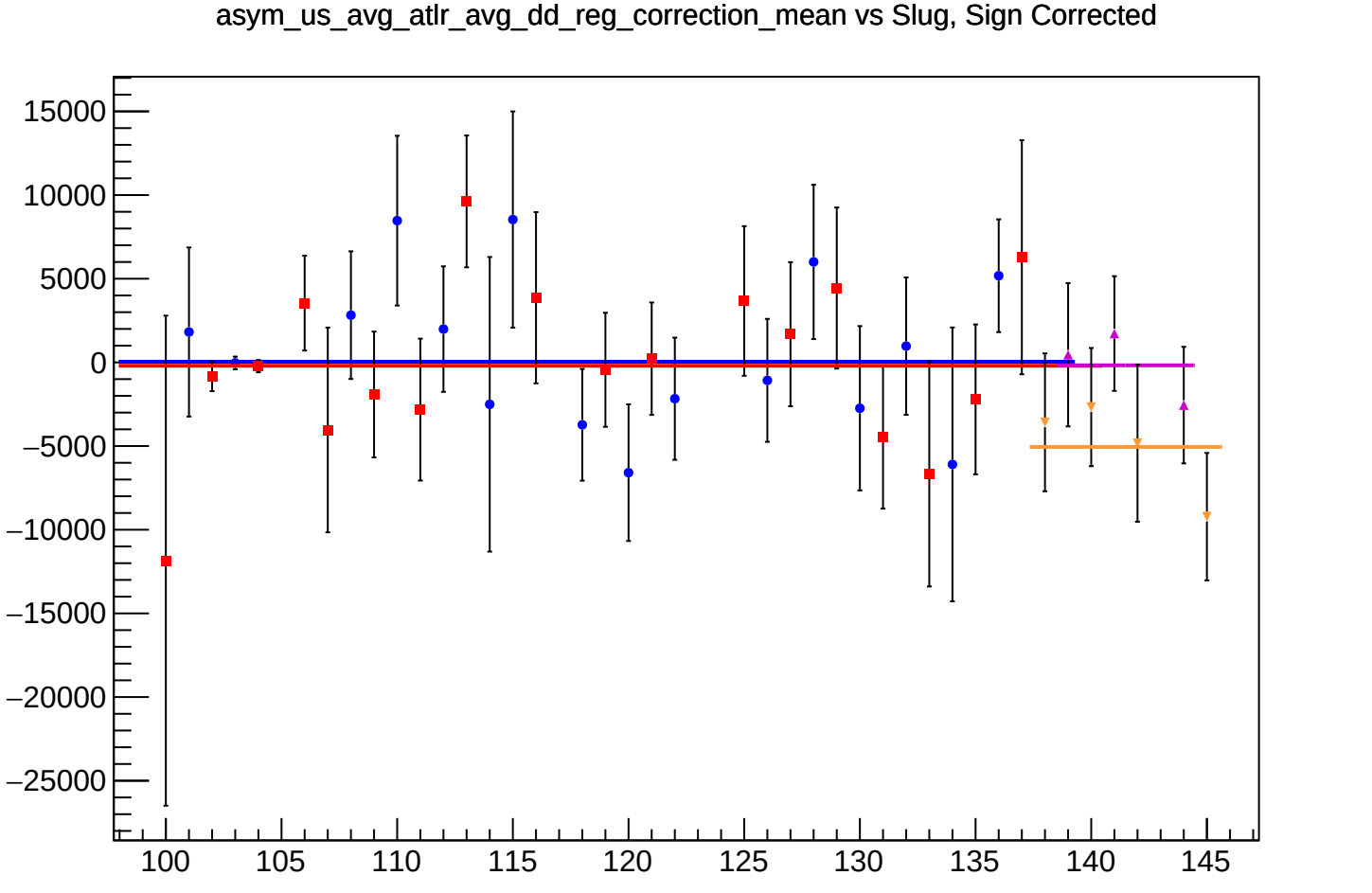
Left: 1191.166+/-0.359 $\chi^2$/NDF: 9053.7/6

Right: 1132.516+/-0.215 $\chi^2$/NDF: 841922.9/33

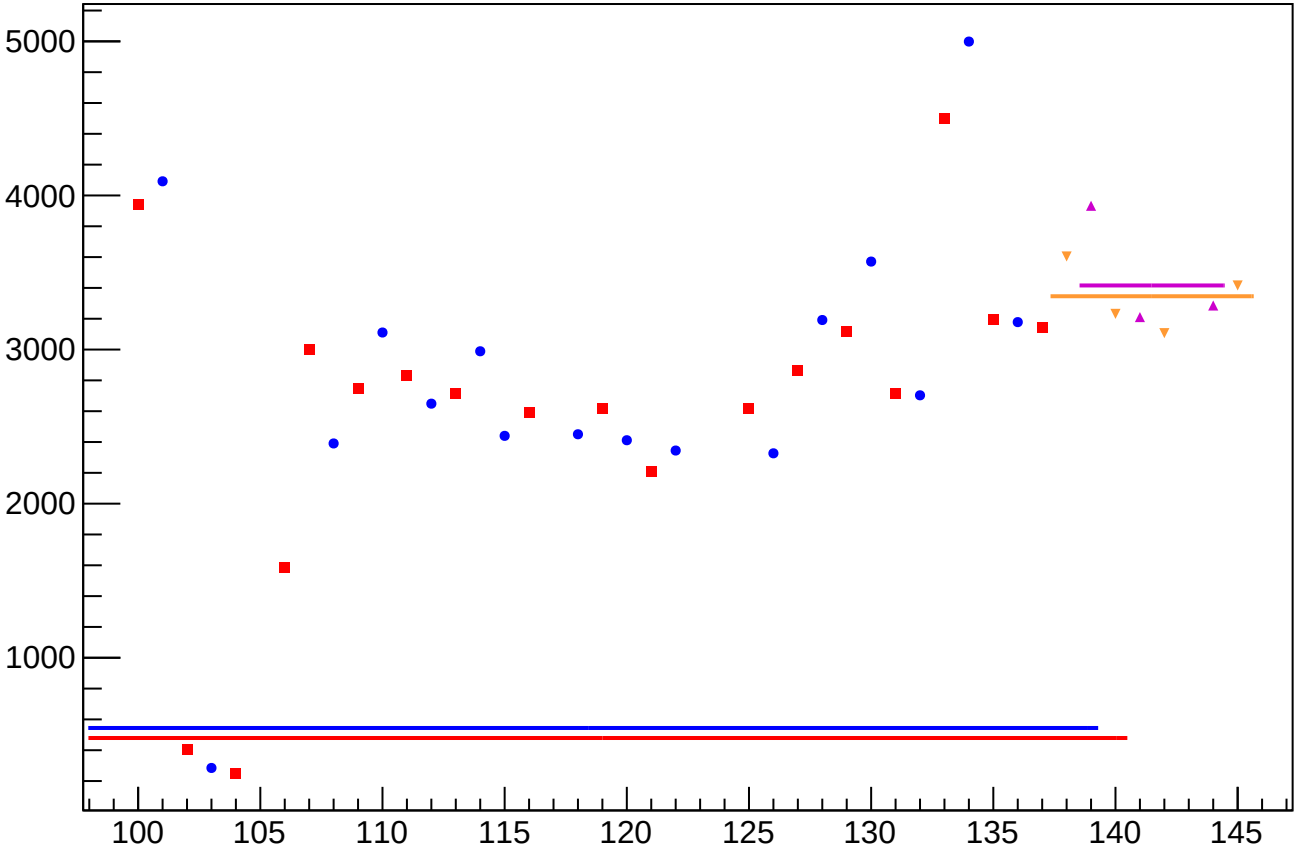
In: 1143.539+/-0.262 $\chi^2$/NDF:636126.4/18

Out: 1152.321+/-0.259 $\chi^2$/NDF:233932.5/21

All: 1147.971+/-0.184 $\chi^2$/NDF: 870626.4/40


asym_us_avg_atlr_avg_dd_reg_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
100
105
110
115
120
125
130
135
140
145
Right In: 38.300+/-357.651 χ²/NDF: 14.8/15
Left Out: -5051.396+/-1986.183 χ²/NDF:1.8/3
Right Out: -201.642+/-322.545 χ²/NDF: 15.6/17
Left In: -173.830+/-2121.877 χ²/NDF:0.8/2
Left: -2773.549+/-1450.043 χ²/NDF: 5.4/6
Right: -94.022+/-239.526 χ²/NDF: 30.7/33
In: 32.440+/-352.677 χ²/NDF:15.7/18
Out: -326.253+/-318.374 χ²/NDF:23.2/21
All: -165.194+/-236.324 χ²/NDF: 39.4/40

asym_us_avg_atlr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 544.336+/-0.253 $\chi^2$/NDF: 9682967.9/15

Left Out: 3345.918+/-1.404 $\chi^2$/NDF:15836.5/3

Right Out: 479.253+/-0.228 $\chi^2$/NDF: 9187985.0/17

Left In: 3415.973+/-1.500 $\chi^2$/NDF:39117.3/2

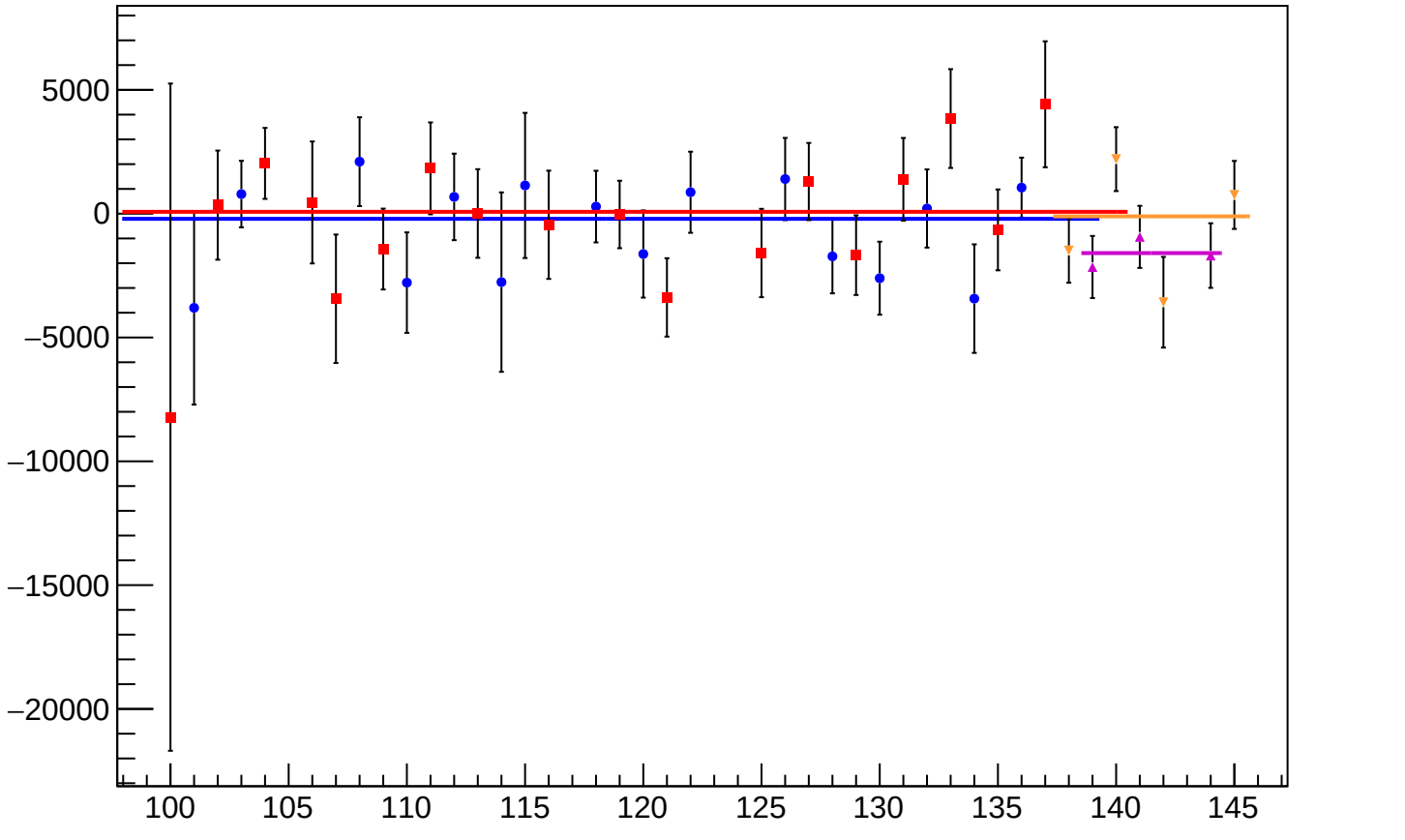
Left: 3378.634+/-1.025 $\chi^2$/NDF: 56115.8/6

Right: 508.444+/-0.169 $\chi^2$/NDF: 18907476.4/33

In: 623.667+/-0.249 $\chi^2$/NDF:13283987.2/18

Out: 552.910+/-0.225 $\chi^2$/NDF:13263021.9/21

All: 584.681+/-0.167 $\chi^2$/NDF: 26591365.4/40




Right In: -208.110+/-429.155 $\chi^2$/NDF: 14.8/15

Left Out: -107.823+/-703.887 $\chi^2$/NDF:8.3/3

Right Out: 75.761+/-430.760 $\chi^2$/NDF: 20.7/17

Left In: -1591.184+/-733.275 $\chi^2$/NDF:0.5/2

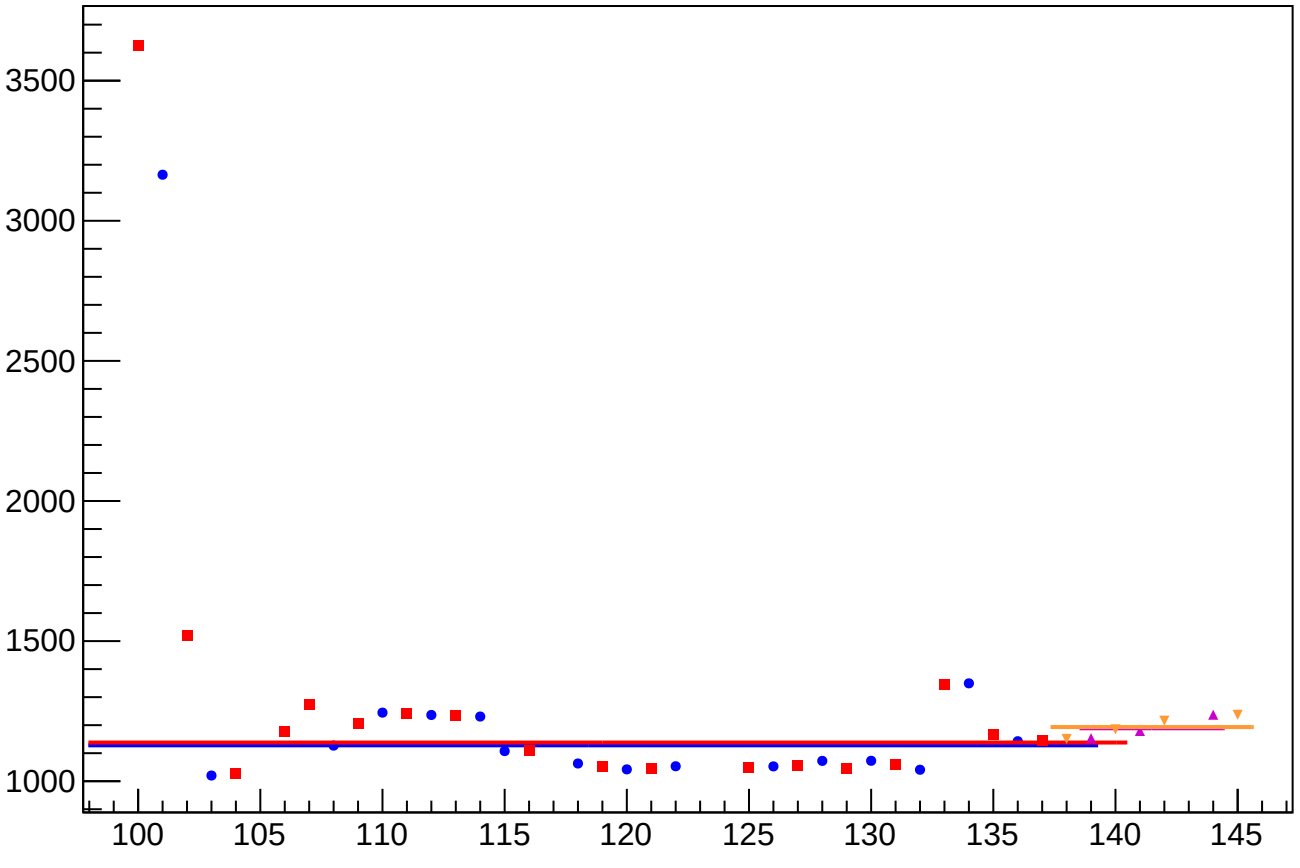
Left: -819.184+/-507.795 $\chi^2$/NDF: 10.9/6

Right: -66.705+/-304.024 $\chi^2$/NDF: 35.6/33

In: -560.981+/-370.384 $\chi^2$/NDF:17.9/18

Out: 25.740+/-367.419 $\chi^2$/NDF:29.0/21

All: -265.262+/-260.846 $\chi^2$/NDF: 48.2/40




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621395.6/15

Left Out: 1193.270+/-0.498 $\chi^2$/NDF:4552.0/3

Right Out: 1138.000+/-0.304 $\chi^2$/NDF: 220624.5/17

Left In: 1188.883+/-0.519 $\chi^2$/NDF:4464.5/2

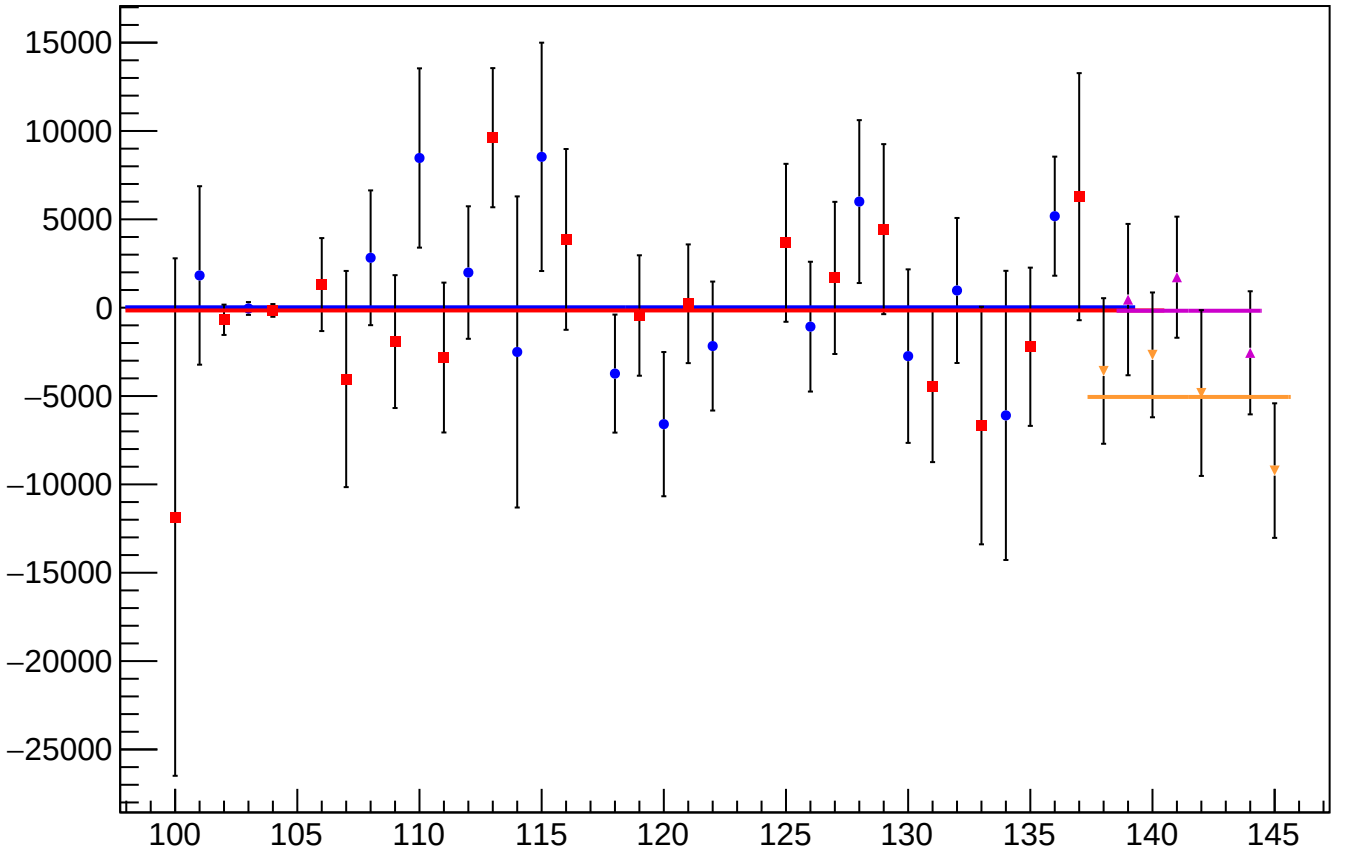
Left: 1191.166+/-0.359 $\chi^2$/NDF: 9053.7/6

Right: 1132.987+/-0.215 $\chi^2$/NDF: 842560.5/33

In: 1143.539+/-0.262 $\chi^2$/NDF:636127.6/18

Out: 1153.047+/-0.260 $\chi^2$/NDF:234150.5/21

All: 1148.333+/-0.184 $\chi^2$/NDF: 870942.6/40




Right In: 21.645+/-344.525 $\chi^2$/NDF: 14.9/15

Left Out: -5051.472+/-1986.181 $\chi^2$/NDF:1.8/3

Right Out: -156.231+/-317.367 $\chi^2$/NDF: 14.0/17

Left In: -173.887+/-2121.879 $\chi^2$/NDF:0.8/2

Left: -2773.621+/-1450.043 $\chi^2$/NDF: 5.4/6

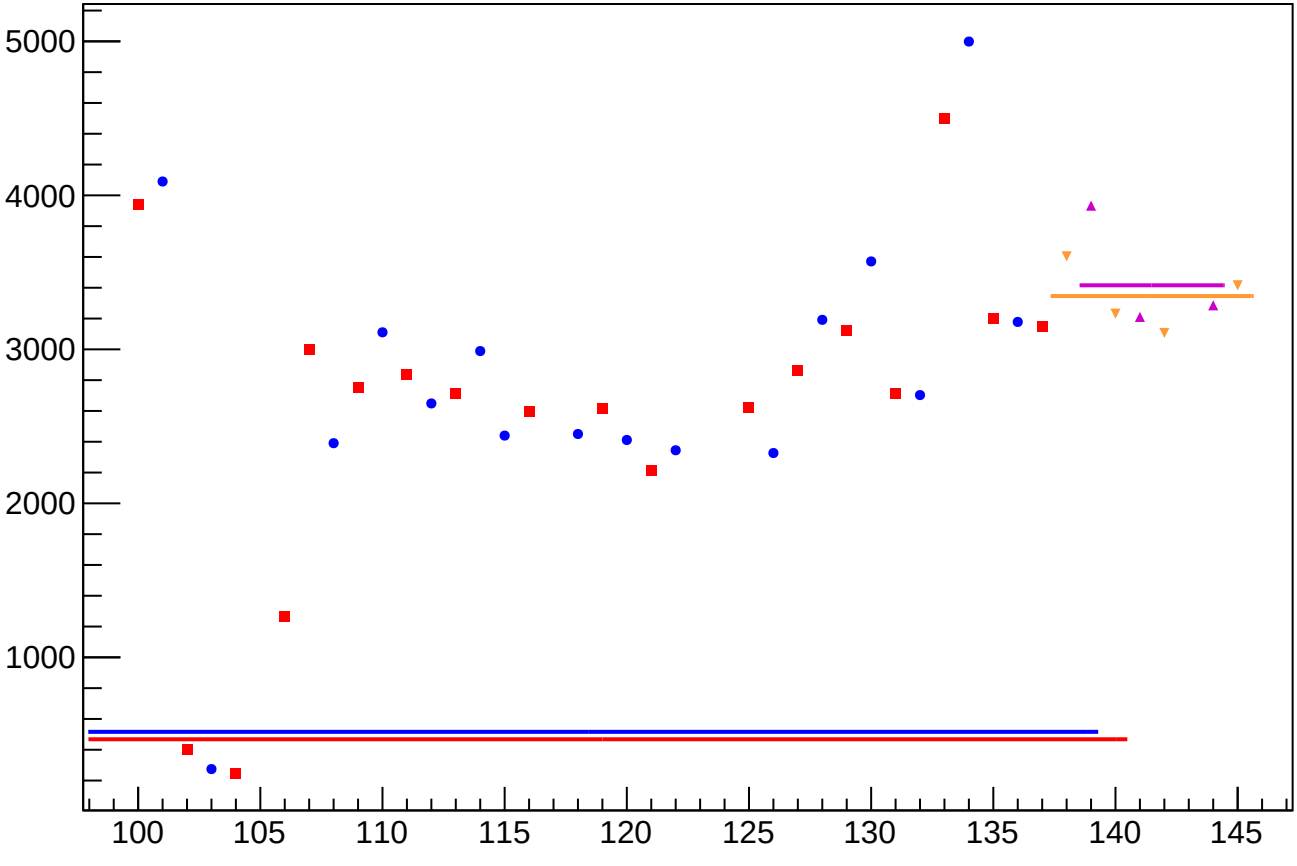
Right: -74.579+/-233.424 $\chi^2$/NDF: 29.0/33

In: 16.623+/-340.072 $\chi^2$/NDF:15.7/18

Out: -278.105+/-313.392 $\chi^2$/NDF:21.7/21

All: -142.755+/-230.457 $\chi^2$/NDF: 37.8/40

asym_us_avg_atlr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 516.297+/-0.244 $\chi^2$/NDF: 9834669.6/15

Left Out: 3345.913+/-1.404 $\chi^2$/NDF:15836.0/3

Right Out: 468.060+/-0.224 $\chi^2$/NDF: 9111222.0/17

Left In: 3415.973+/-1.500 $\chi^2$/NDF:39117.9/2

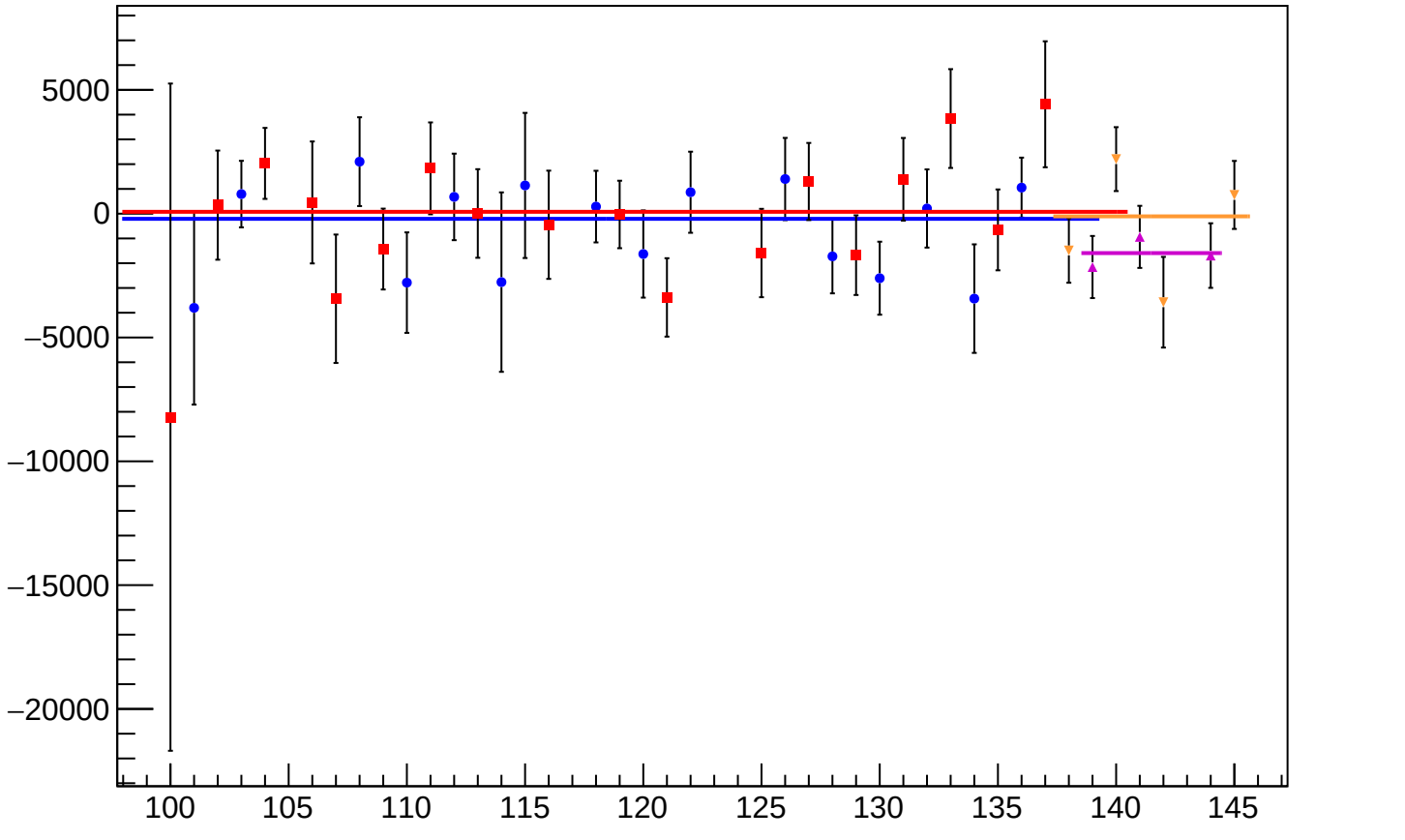
Left: 3378.631+/-1.025 $\chi^2$/NDF: 56116.1/6

Right: 490.202+/-0.165 $\chi^2$/NDF: 18967100.3/33

In: 590.778+/-0.240 $\chi^2$/NDF:13512828.5/18

Out: 539.708+/-0.222 $\chi^2$/NDF:13221365.8/21

All: 563.162+/-0.163 $\chi^2$/NDF: 26758585.5/40




Right In: -208.110+/-429.155 $\chi^2$/NDF: 14.8/15

Left Out: -107.823+/-703.887 $\chi^2$/NDF:8.3/3

Right Out: 75.761+/-430.760 $\chi^2$/NDF: 20.7/17

Left In: -1591.184+/-733.275 $\chi^2$/NDF:0.5/2

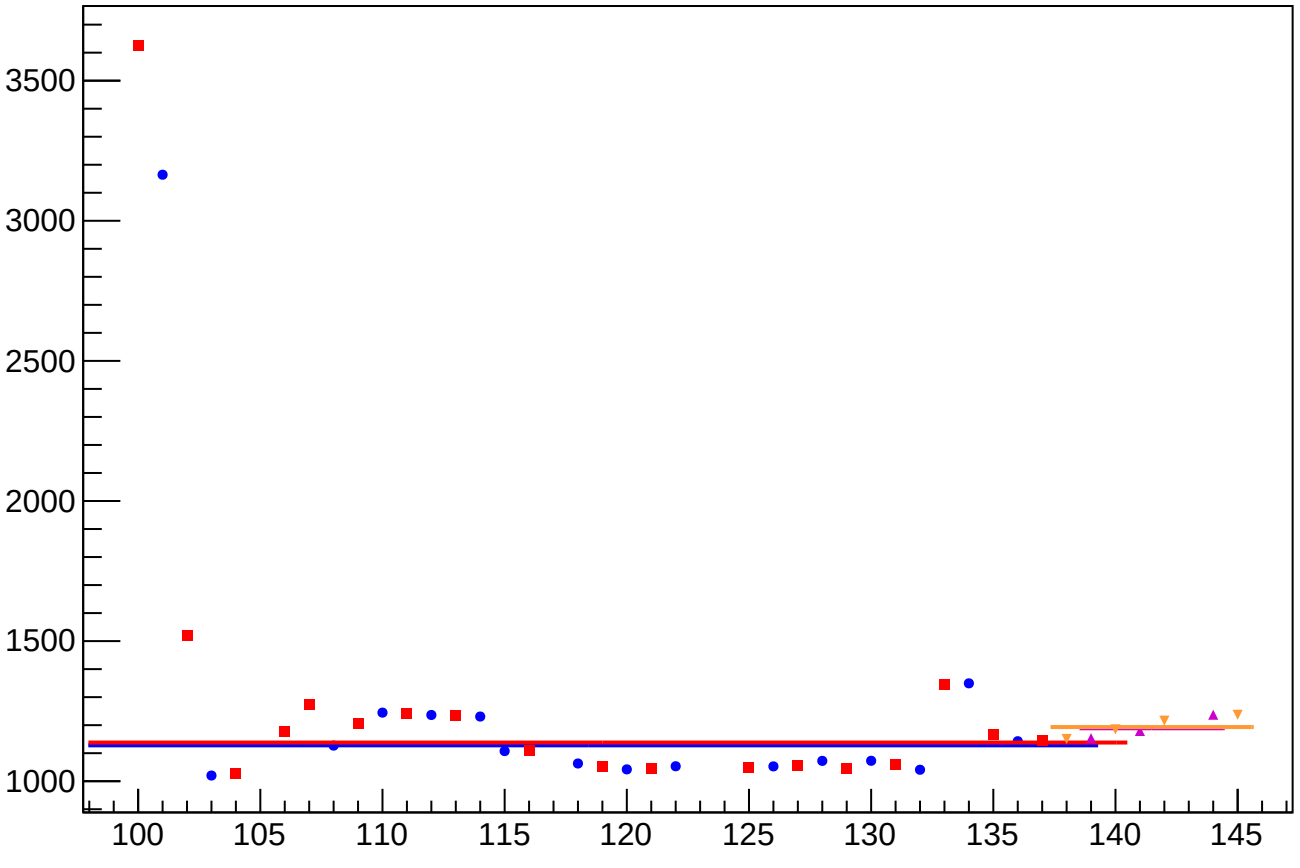
Left: -819.184+/-507.795 $\chi^2$/NDF: 10.9/6

Right: -66.705+/-304.024 $\chi^2$/NDF: 35.6/33

In: -560.981+/-370.384 $\chi^2$/NDF:17.9/18

Out: 25.740+/-367.419 $\chi^2$/NDF:29.0/21

All: -265.262+/-260.846 $\chi^2$/NDF: 48.2/40




Right In: 1128.007+/-0.303 $\chi^2$/NDF: 621395.6/15

Left Out: 1193.270+/-0.498 $\chi^2$/NDF:4552.0/3

Right Out: 1138.000+/-0.304 $\chi^2$/NDF: 220624.5/17

Left In: 1188.883+/-0.519 $\chi^2$/NDF:4464.5/2

Left: 1191.166+/-0.359 $\chi^2$/NDF: 9053.7/6

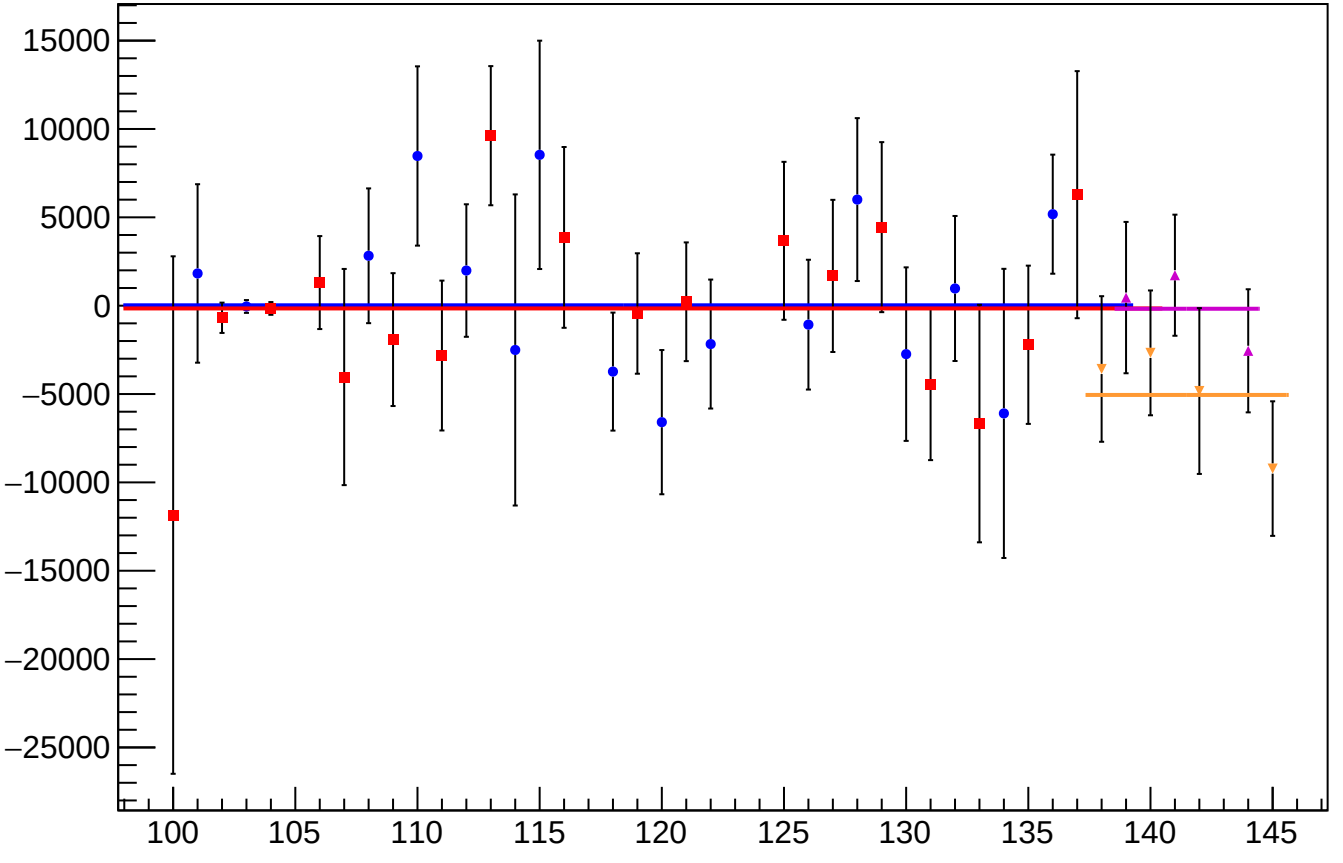
Right: 1132.987+/-0.215 $\chi^2$/NDF: 842560.5/33

In: 1143.539+/-0.262 $\chi^2$/NDF:636127.6/18

Out: 1153.047+/-0.260 $\chi^2$/NDF:234150.5/21

All: 1148.333+/-0.184 $\chi^2$/NDF: 870942.6/40

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 21.645+/-344.525 $\chi^2$/NDF: 14.9/15

Left Out: -5051.472+/-1986.181 $\chi^2$/NDF:1.8/3

Right Out: -156.231+/-317.367 $\chi^2$/NDF: 14.0/17

Left In: -173.887+/-2121.879 $\chi^2$/NDF:0.8/2

Left: -2773.621+/-1450.043 $\chi^2$/NDF: 5.4/6

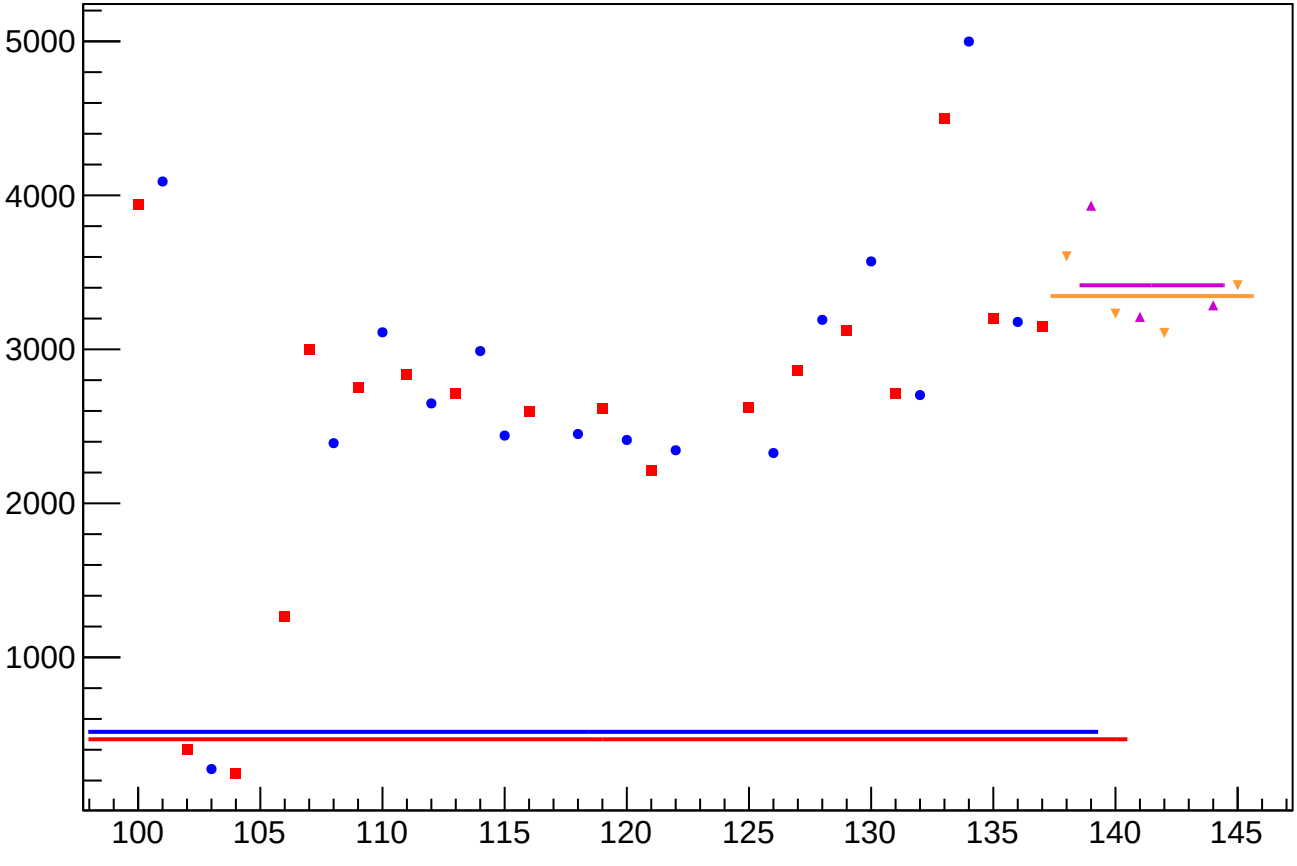
Right: -74.579+/-233.424 $\chi^2$/NDF: 29.0/33

In: 16.623+/-340.072 $\chi^2$/NDF:15.7/18

Out: -278.105+/-313.392 $\chi^2$/NDF:21.7/21

All: -142.755+/-230.457 $\chi^2$/NDF: 37.8/40

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 516.297+/-0.244 $\chi^2$/NDF: 9834669.6/15

Left Out: 3345.913+/-1.404 $\chi^2$/NDF:15836.0/3

Right Out: 468.060+/-0.224 $\chi^2$/NDF: 9111222.0/17

Left In: 3415.973+/-1.500 $\chi^2$/NDF:39117.9/2

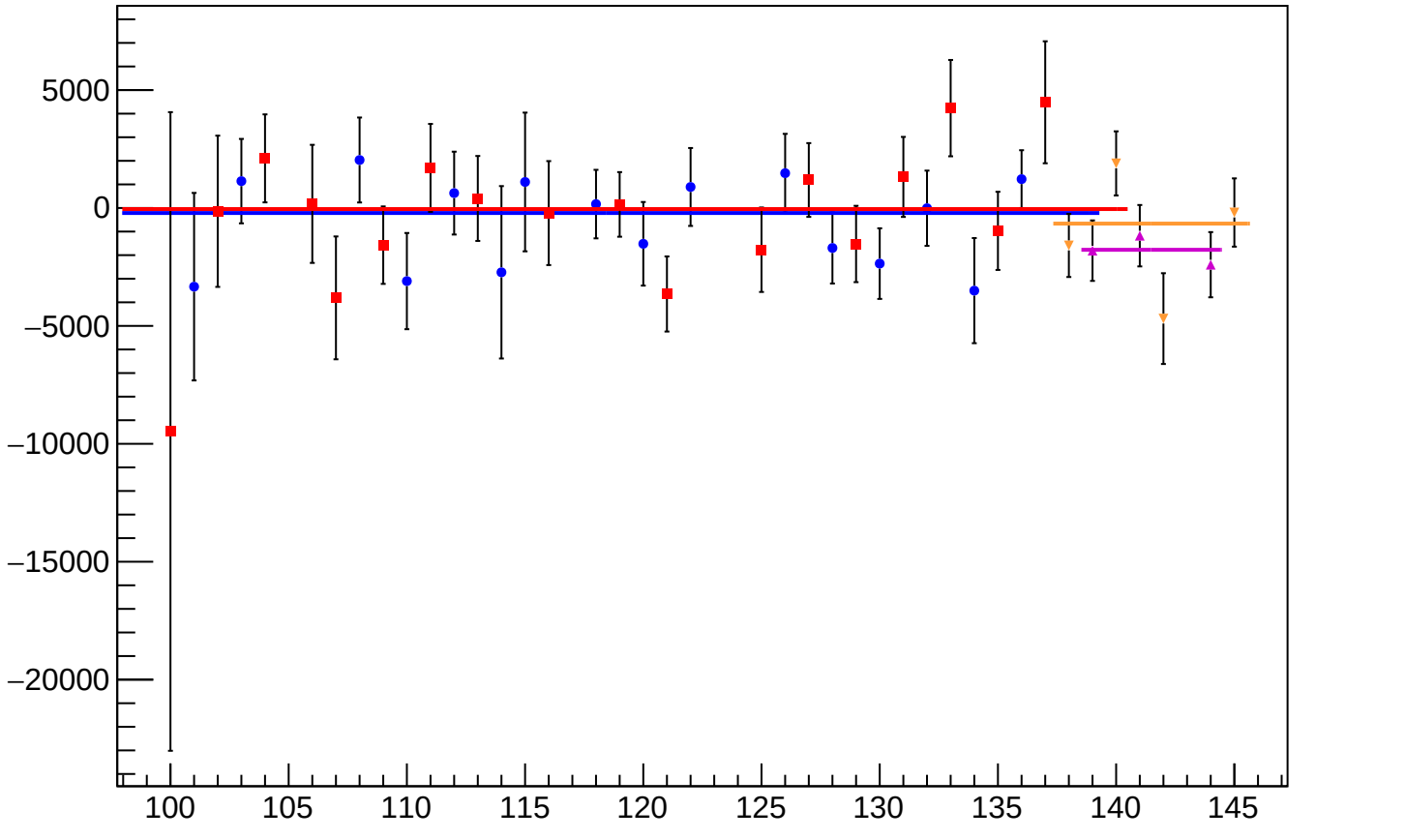
Left: 3378.631+/-1.025 $\chi^2$/NDF: 56116.1/6

Right: 490.202+/-0.165 $\chi^2$/NDF: 18967100.3/33

In: 590.778+/-0.240 $\chi^2$/NDF:13512828.5/18

Out: 539.708+/-0.222 $\chi^2$/NDF:13221365.8/21

All: 563.162+/-0.163 $\chi^2$/NDF: 26758585.5/40




Right In: -213.079+/-442.684 $\chi^2$/NDF: 14.3/15

Left Out: -662.454+/-735.798 $\chi^2$/NDF:8.5/3

Right Out: -45.535+/-447.221 $\chi^2$/NDF: 21.7/17

Left In: -1773.180+/-762.264 $\chi^2$/NDF:0.4/2

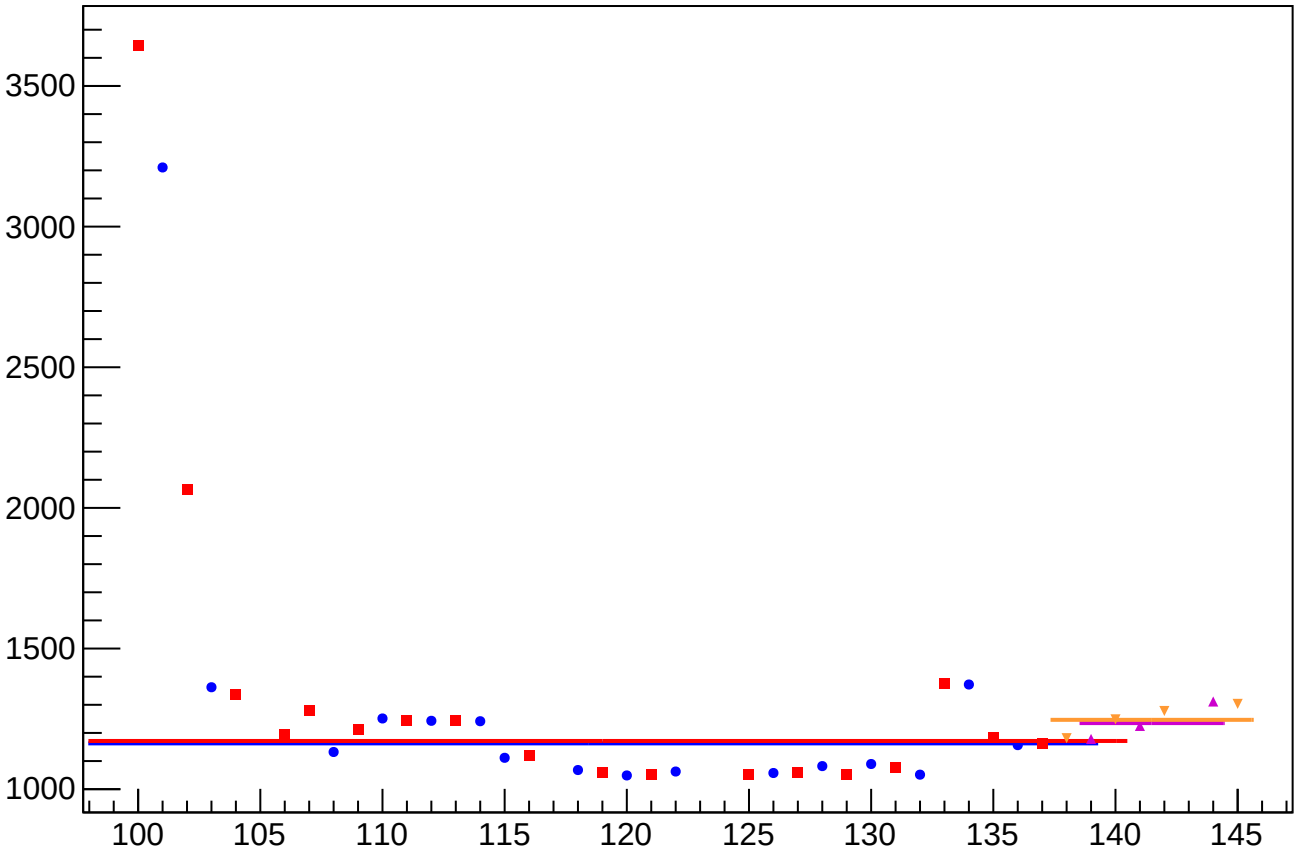
Left: -1198.200+/-529.397 $\chi^2$/NDF: 10.0/6

Right: -130.161+/-314.617 $\chi^2$/NDF: 36.1/33

In: -606.548+/-382.811 $\chi^2$/NDF:17.9/18

Out: -211.959+/-382.167 $\chi^2$/NDF:30.7/21

All: -408.922+/-270.460 $\chi^2$/NDF: 49.1/40




Right In: 1162.851+/-0.313 $\chi^2$/NDF: 635353.4/15

Left Out: 1246.549+/-0.520 $\chi^2$/NDF:8360.9/3

Right Out: 1171.420+/-0.316 $\chi^2$/NDF: 331640.8/17

Left In: 1234.975+/-0.539 $\chi^2$/NDF:10140.8/2

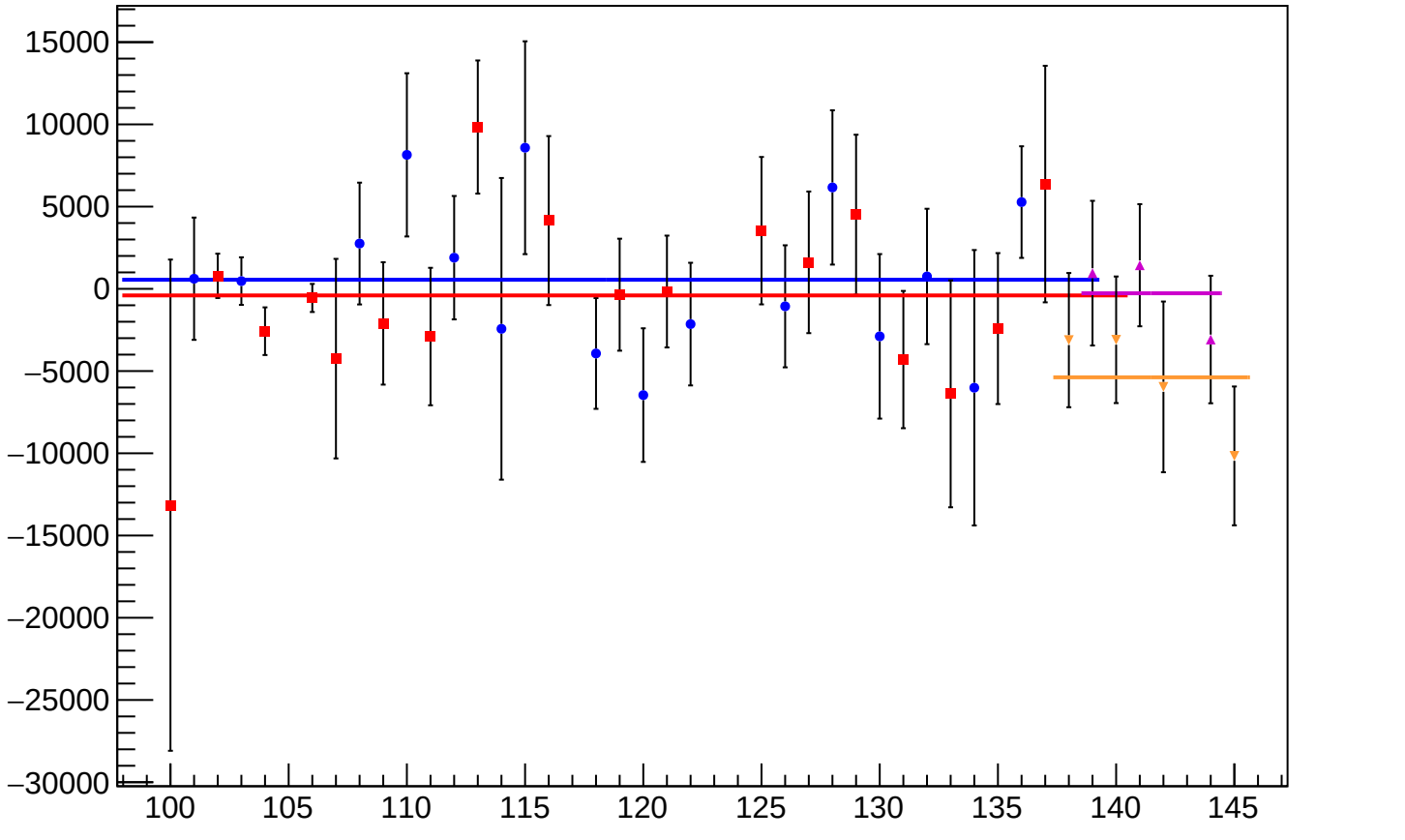
Left: 1240.967+/-0.374 $\chi^2$/NDF: 18740.3/6

Right: 1167.094+/-0.222 $\chi^2$/NDF: 967365.3/33

In: 1181.042+/-0.271 $\chi^2$/NDF:658883.5/18

Out: 1191.674+/-0.270 $\chi^2$/NDF:355231.7/21

All: 1186.368+/-0.191 $\chi^2$/NDF: 1014888.2/40




Right In: 552.517+/-874.128 $\chi^2$/NDF: 14.4/15

Left Out: -5380.022+/-2128.144 $\chi^2$/NDF:2.0/3

Right Out: -400.432+/-565.871 $\chi^2$/NDF: 16.7/17

Left In: -270.161+/-2289.402 $\chi^2$/NDF:0.8/2

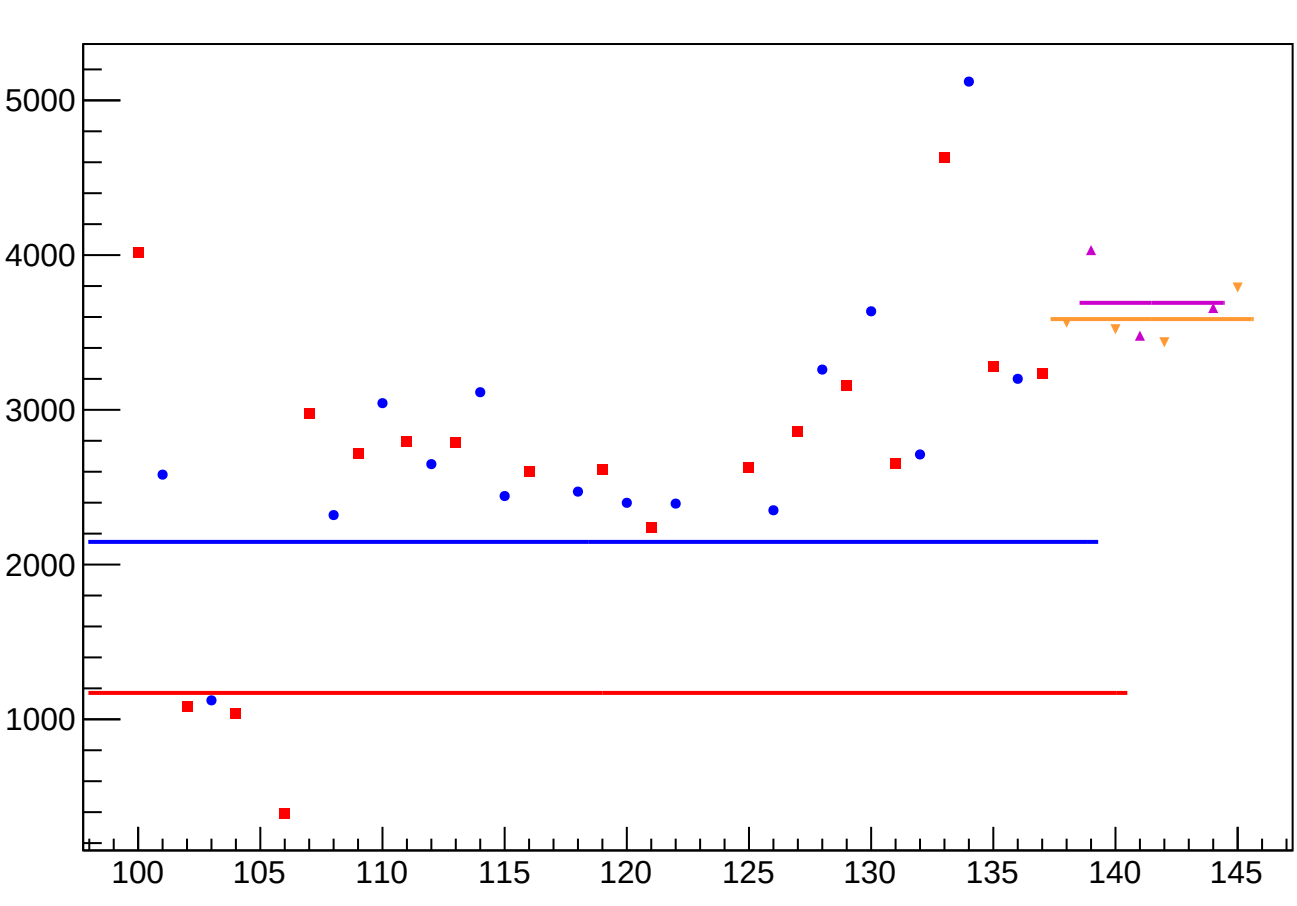
Left: -3011.373+/-1558.719 $\chi^2$/NDF: 5.4/6

Right: -119.015+/-475.024 $\chi^2$/NDF: 31.9/33

In: 447.844+/-816.627 $\chi^2$/NDF:15.3/18

Out: -729.252+/-546.869 $\chi^2$/NDF:23.7/21

All: -364.812+/-454.392 $\chi^2$/NDF: 40.5/40




Right In: 2146.616+/-0.618 $\chi^2$/NDF: 1974723.6/15

Left Out: 3586.547+/-1.505 $\chi^2$/NDF:6979.3/3

Right Out: 1170.573+/-0.400 $\chi^2$/NDF: 5817478.8/17

Left In: 3691.509+/-1.619 $\chi^2$/NDF:18706.8/2

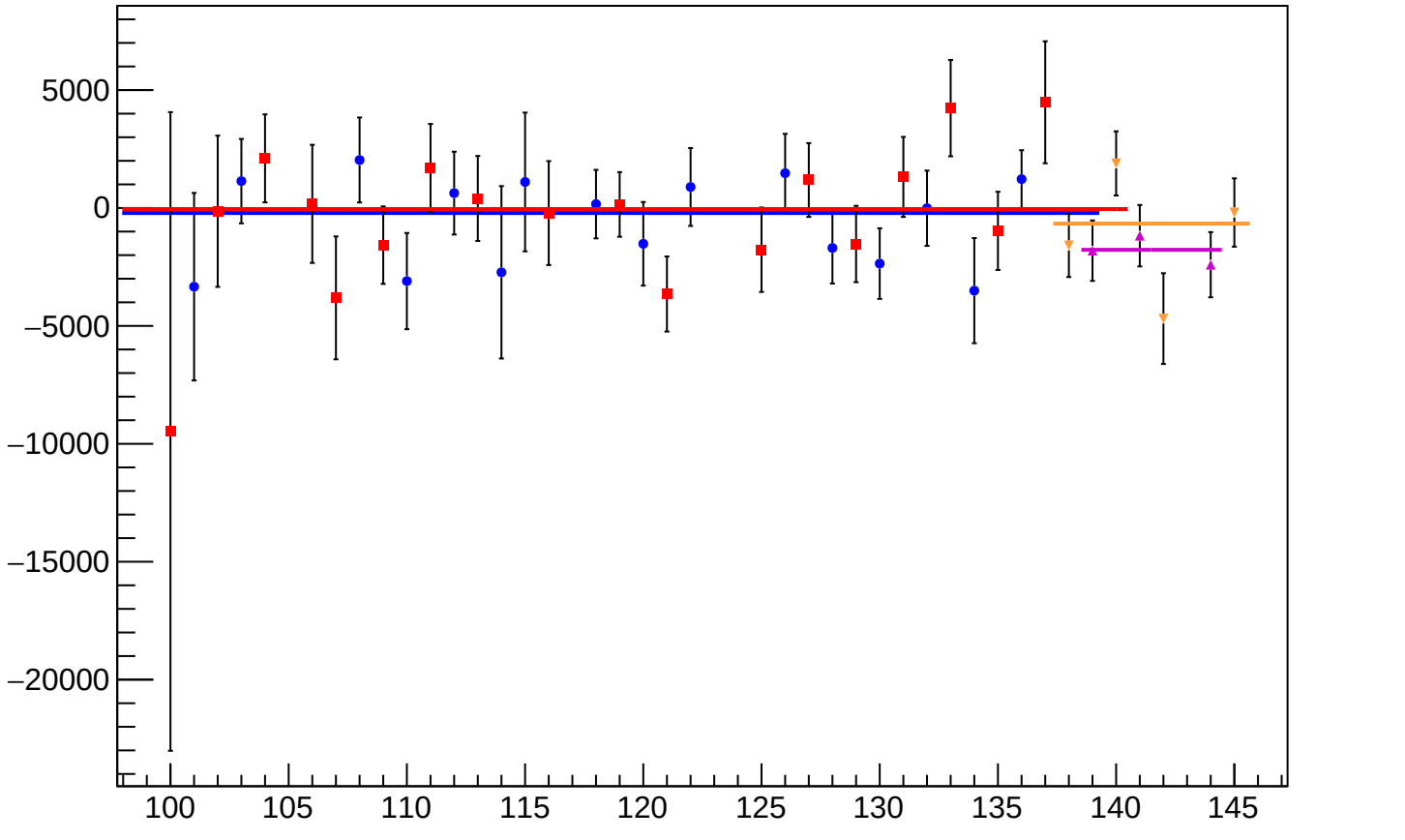
Left: 3635.201+/-1.102 $\chi^2$/NDF: 27941.4/6

Right: 1458.811+/-0.336 $\chi^2$/NDF: 9549375.1/33

In: 2343.179+/-0.577 $\chi^2$/NDF:2788271.4/18

Out: 1330.109+/-0.387 $\chi^2$/NDF:8231832.4/21

All: 1643.764+/-0.321 $\chi^2$/NDF: 13145094.6/4




Right In: -213.082+/-442.684 $\chi^2$/NDF: 14.3/15

Left Out: -662.468+/-735.799 $\chi^2$/NDF:8.5/3

Right Out: -45.539+/-447.221 $\chi^2$/NDF: 21.7/17

Left In: -1773.176+/-762.265 $\chi^2$/NDF:0.4/2

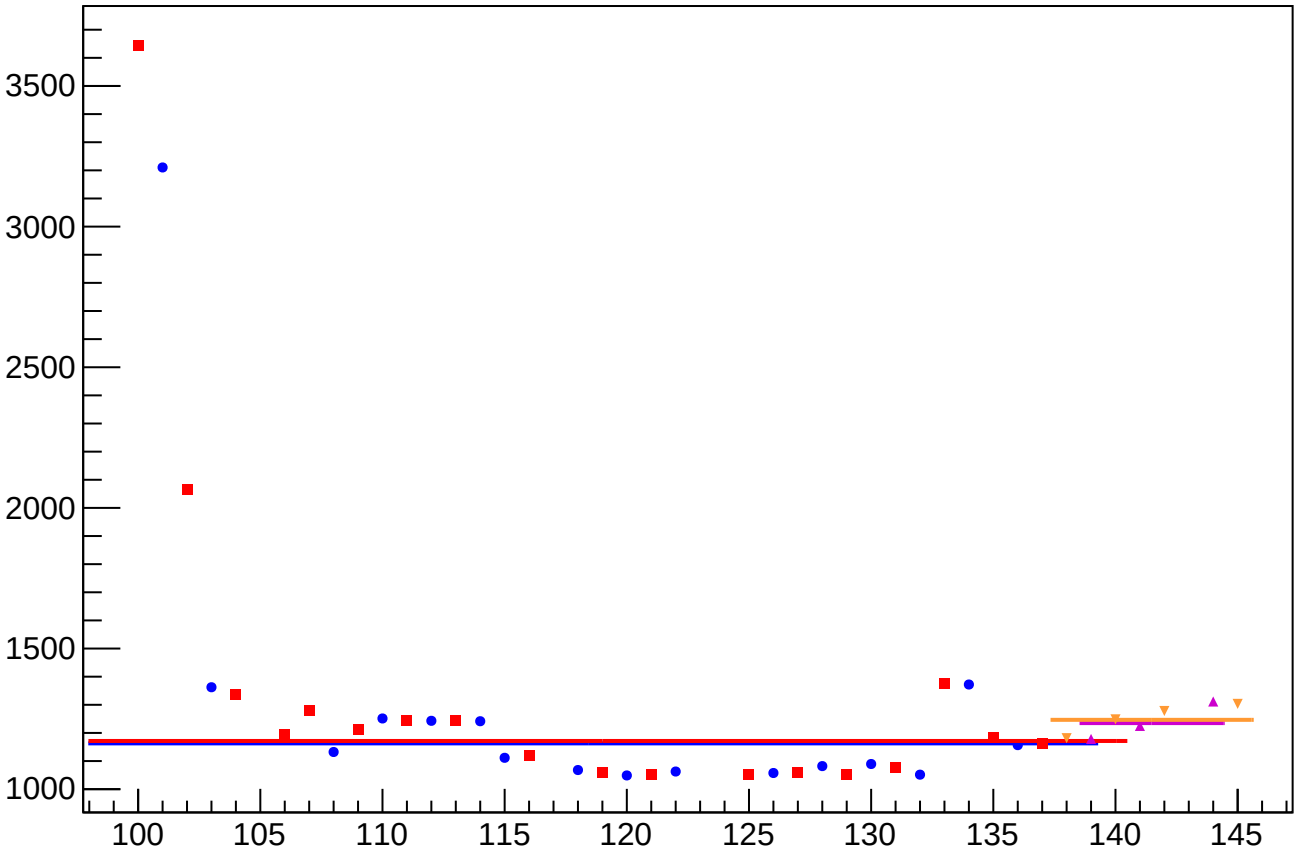
Left: -1198.206+/-529.397 $\chi^2$/NDF: 10.0/6

Right: -130.164+/-314.617 $\chi^2$/NDF: 36.1/33

In: -606.549+/-382.811 $\chi^2$/NDF:17.9/18

Out: -211.965+/-382.167 $\chi^2$/NDF:30.7/21

All: -408.925+/-270.460 $\chi^2$/NDF: 49.1/40




Right In: 1162.851+/-0.313 $\chi^2$/NDF: 635353.6/15

Left Out: 1246.550+/-0.520 $\chi^2$/NDF:8361.1/3

Right Out: 1171.420+/-0.316 $\chi^2$/NDF: 331640.4/17

Left In: 1234.976+/-0.539 $\chi^2$/NDF:10140.8/2

Left: 1240.968+/-0.374 $\chi^2$/NDF: 18740.6/6

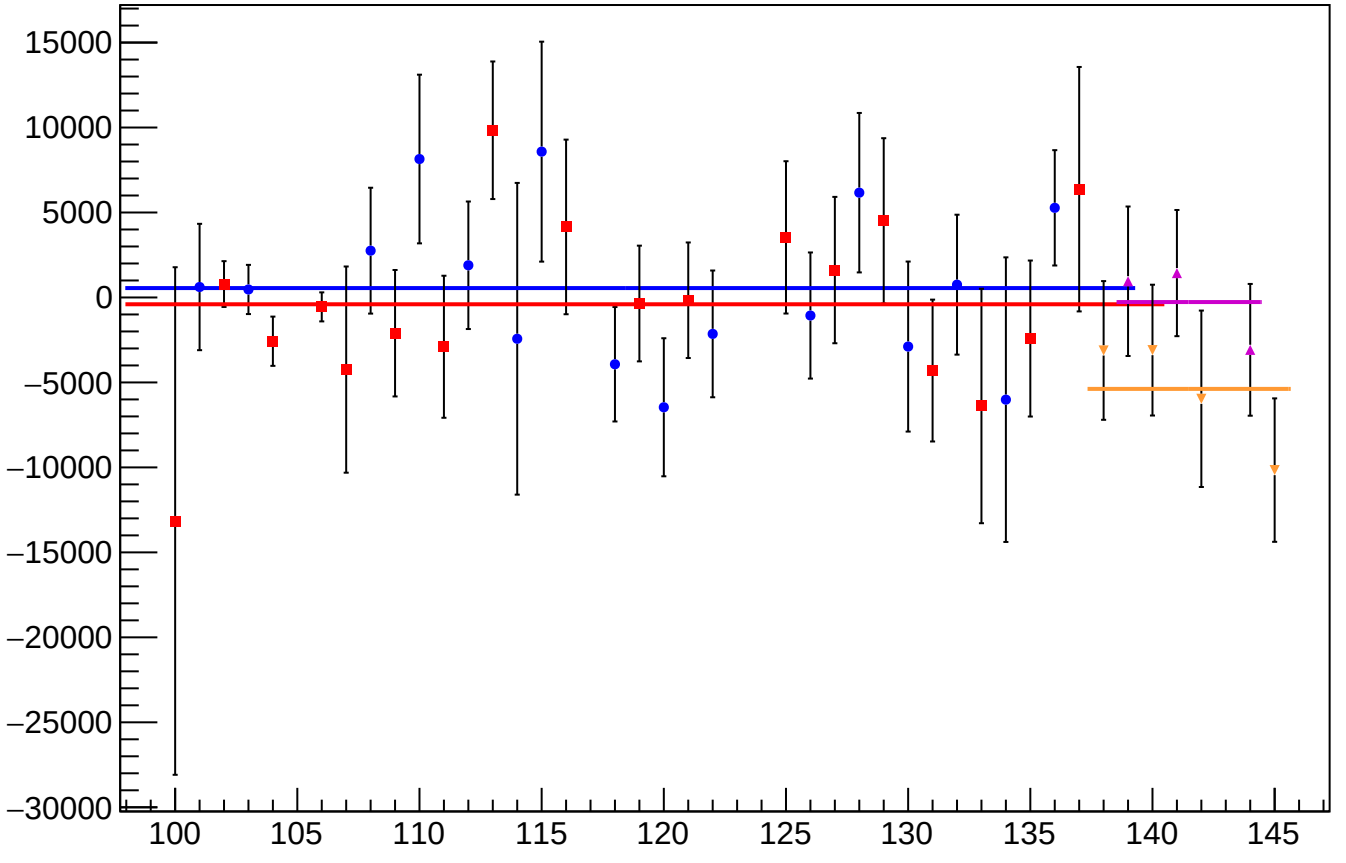
Right: 1167.094+/-0.222 $\chi^2$/NDF: 967365.1/33

In: 1181.042+/-0.271 $\chi^2$/NDF:658884.1/18

Out: 1191.674+/-0.270 $\chi^2$/NDF:355232.0/21

All: 1186.369+/-0.191 $\chi^2$/NDF: 1014889.1/40

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 552.510+/-874.126 $\chi^2$/NDF: 14.4/15

Left Out: -5380.037+/-2128.147 $\chi^2$/NDF:2.0/3

Right Out: -400.433+/-565.864 $\chi^2$/NDF: 16.7/17

Left In: -270.157+/-2289.405 $\chi^2$/NDF:0.8/2

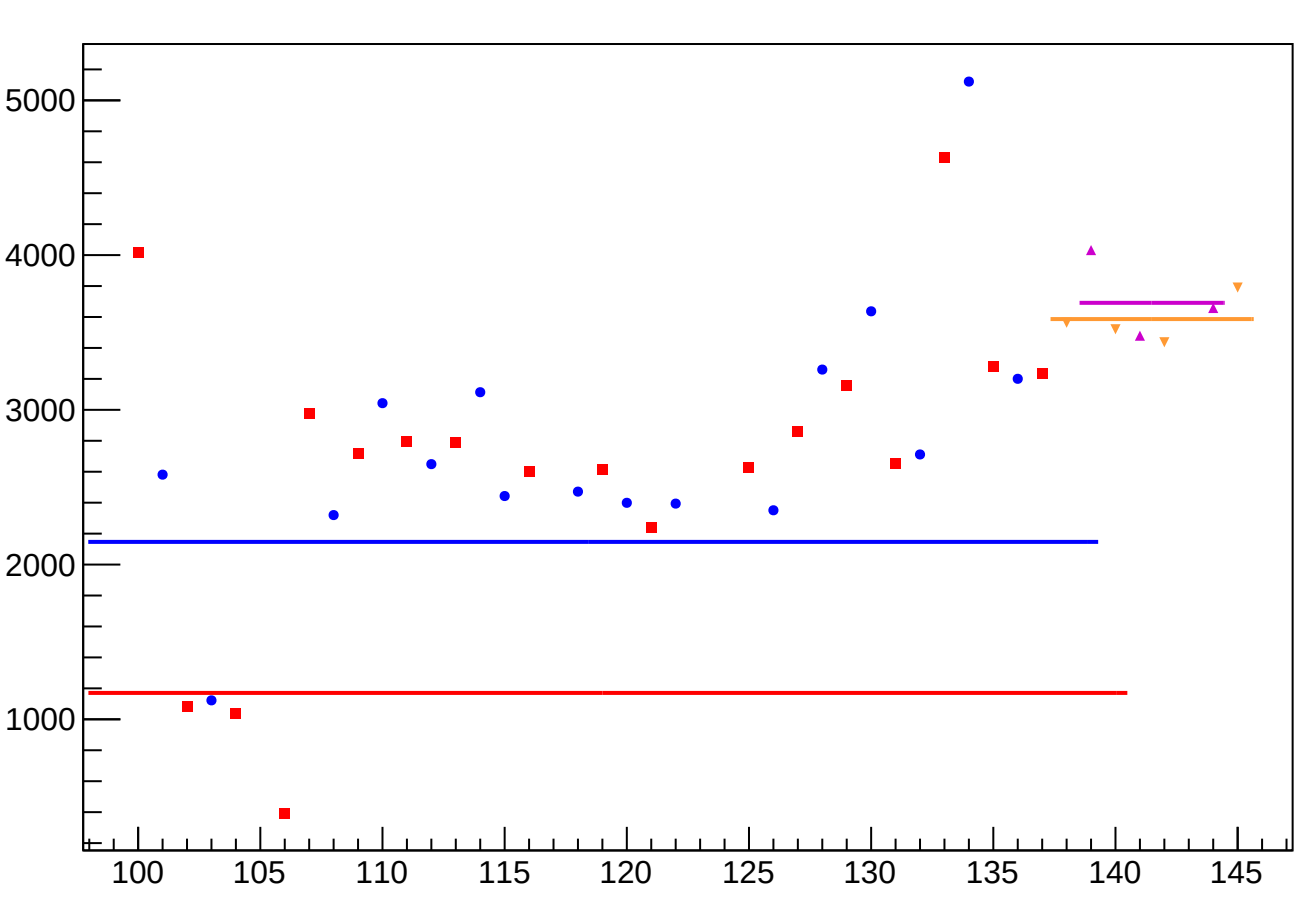
Left: -3011.379+/-1558.721 $\chi^2$/NDF: 5.4/6

Right: -119.022+/-475.020 $\chi^2$/NDF: 31.9/33

In: 447.839+/-816.626 $\chi^2$/NDF:15.3/18

Out: -729.245+/-546.862 $\chi^2$/NDF:23.7/21

All: -364.814+/-454.388 $\chi^2$/NDF: 40.5/40




Right In: 2146.613+/-0.618 $\chi^2$/NDF: 1974719.3/15

Left Out: 3586.553+/-1.505 $\chi^2$/NDF:6979.5/3

Right Out: 1170.550+/-0.400 $\chi^2$/NDF: 5817605.6/17

Left In: 3691.513+/-1.619 $\chi^2$/NDF:18707.4/2

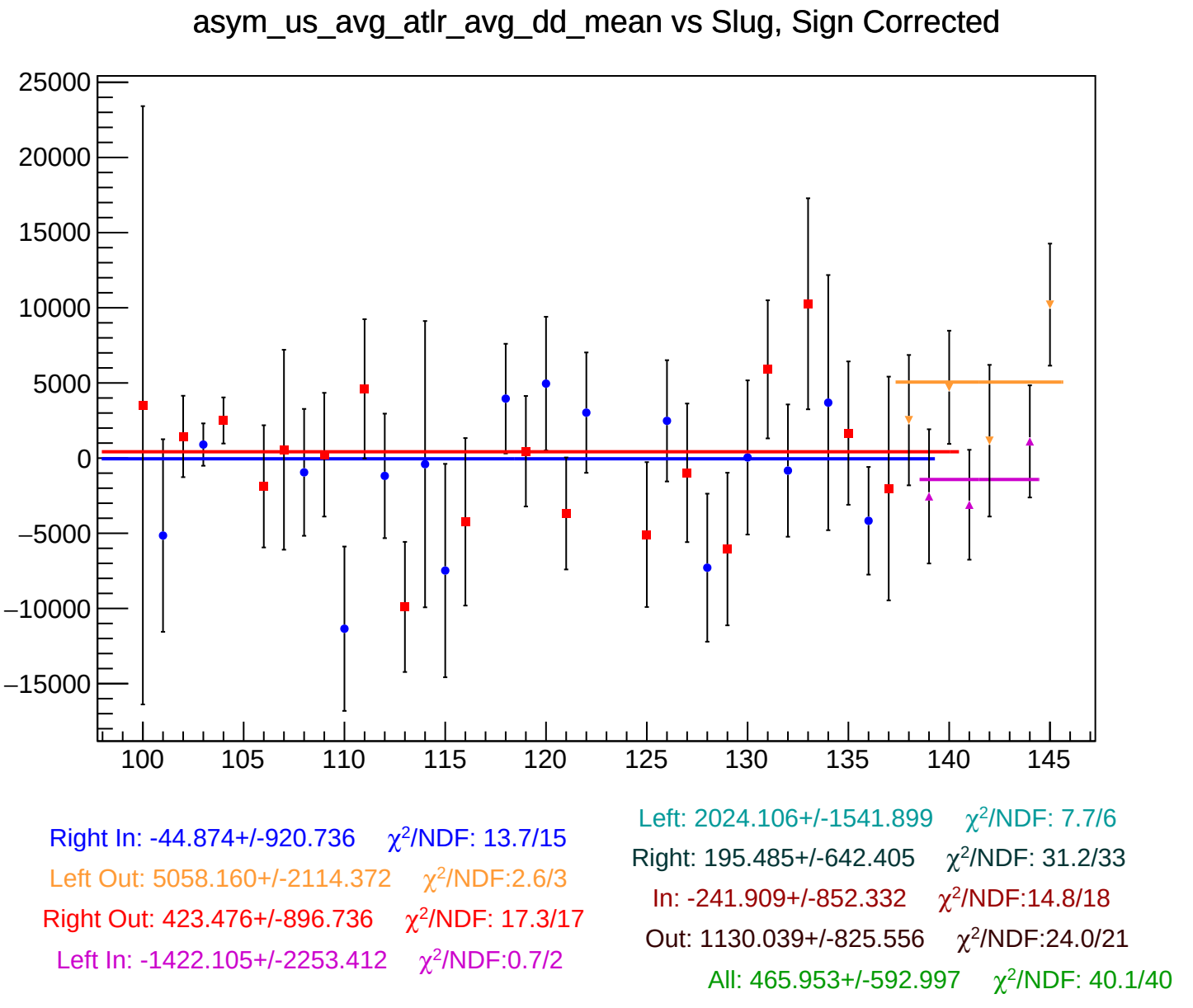
Left: 3635.207+/-1.102 $\chi^2$/NDF: 27942.0/6

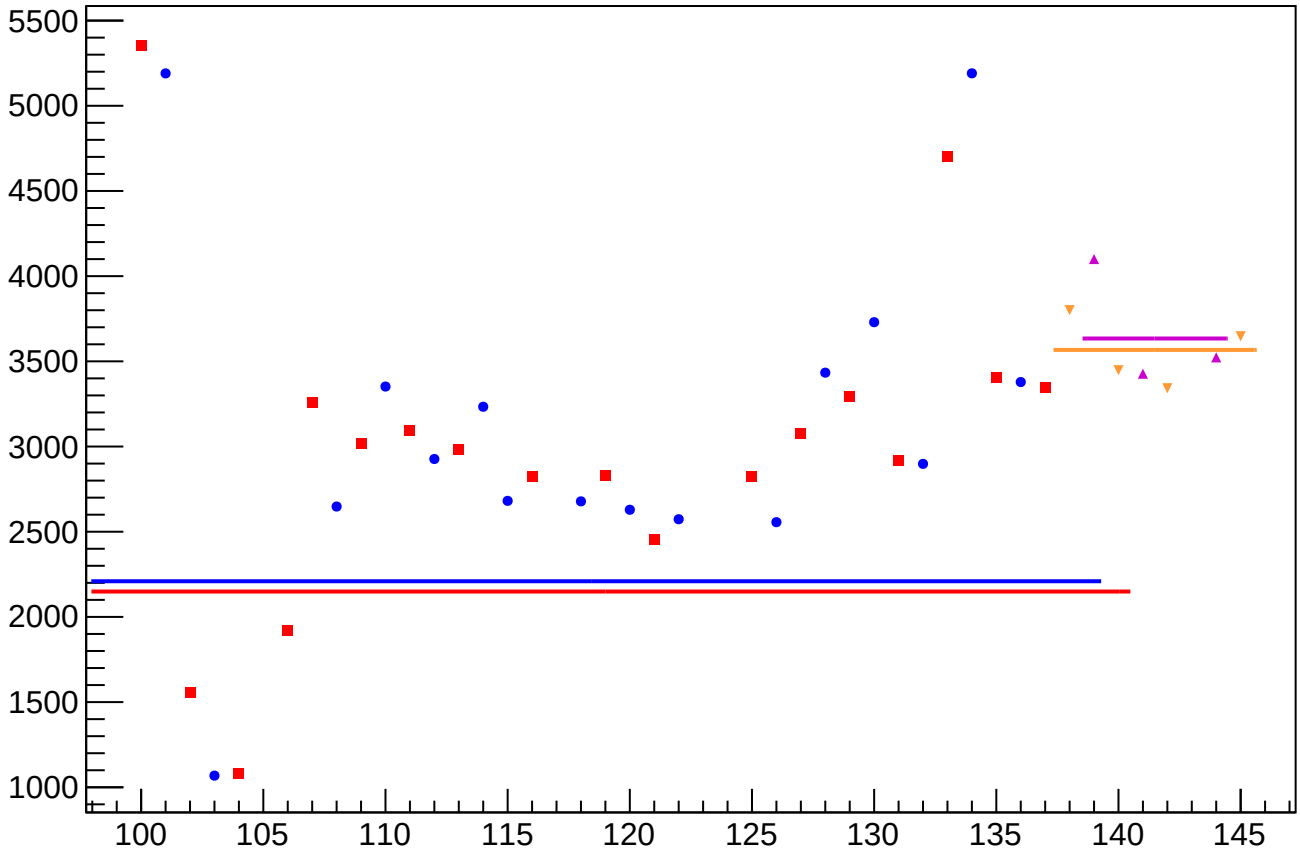
Right: 1458.789+/-0.336 $\chi^2$/NDF: 9549586.1/33

In: 2343.176+/-0.577 $\chi^2$/NDF:2788274.2/18

Out: 1330.083+/-0.387 $\chi^2$/NDF:8232013.5/21

All: 1643.742+/-0.321 $\chi^2$/NDF: 13145389.9/4


asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
100
105
110
115
120
125
130
135
140
145
Right In: -44.874+/-920.736 χ²/NDF: 13.7/15
Left Out: 5058.160+/-2114.372 χ²/NDF:2.6/3
Right Out: 423.476+/-896.736 χ²/NDF: 17.3/17
Left In: -1422.105+/-2253.412 χ²/NDF:0.7/2
Left: 2024.106+/-1541.899 χ²/NDF: 7.7/6
Right: 195.485+/-642.405 χ²/NDF: 31.2/33
In: -241.909+/-852.332 χ²/NDF:14.8/18
Out: 1130.039+/-825.556 χ²/NDF:24.0/21
All: 465.953+/-592.997 χ²/NDF: 40.1/40




Right In: 2209.349+/-0.651 $\chi^2$/NDF: 2836875.7/15

Left Out: 3567.178+/-1.495 $\chi^2$/NDF:12545.6/3

Right Out: 2148.948+/-0.633 $\chi^2$/NDF: 2269660.8/17

Left In: 3634.009+/-1.593 $\chi^2$/NDF:29990.0/2

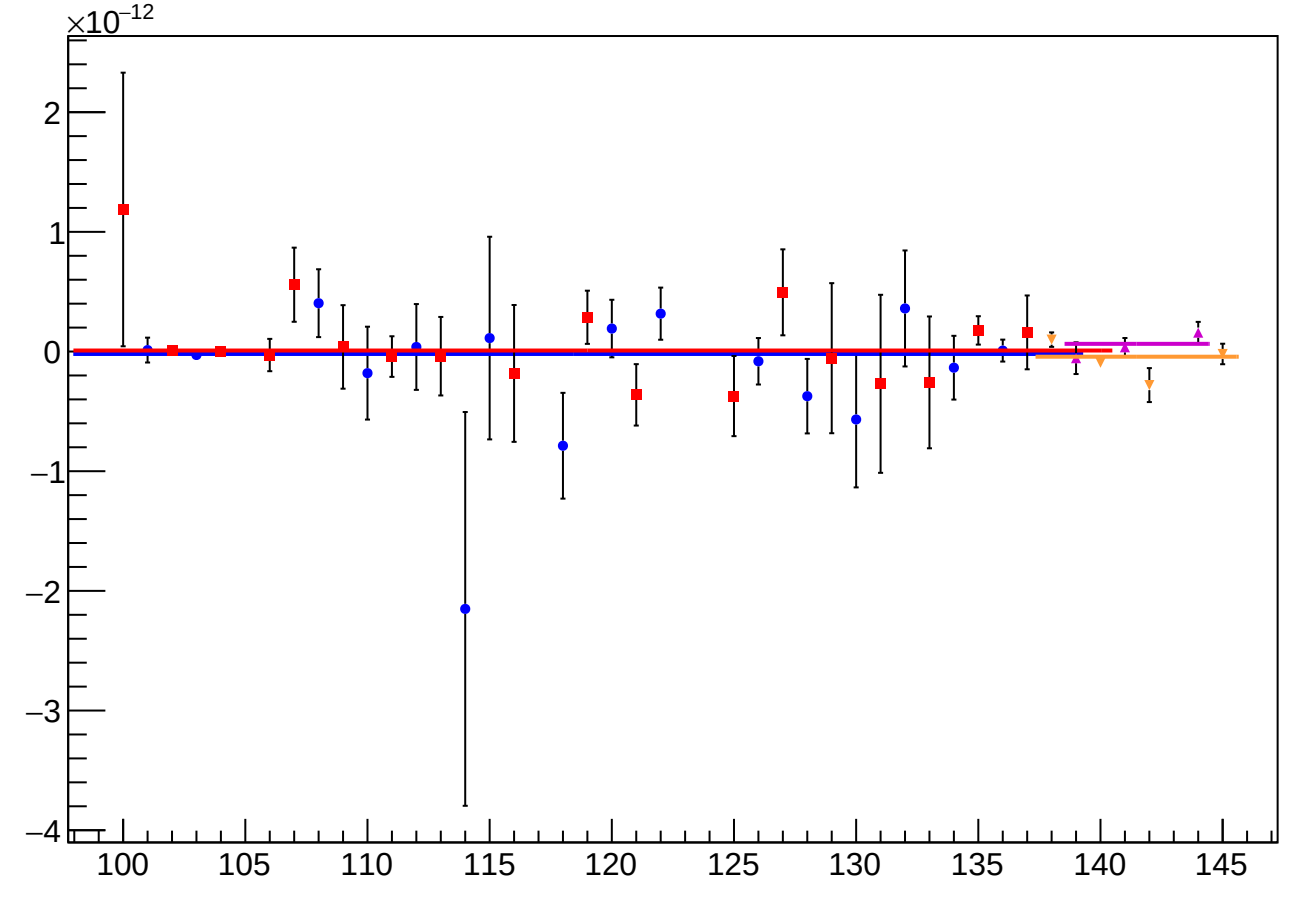
Left: 3598.468+/-1.090 $\chi^2$/NDF: 43471.2/6

Right: 2178.279+/-0.454 $\chi^2$/NDF: 5110964.0/33

In: 2413.169+/-0.603 $\chi^2$/NDF:3551910.3/18

Out: 2364.283+/-0.583 $\chi^2$/NDF:3045412.1/21

All: 2387.896+/-0.419 $\chi^2$/NDF: 6600723.7/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.0/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.0/2

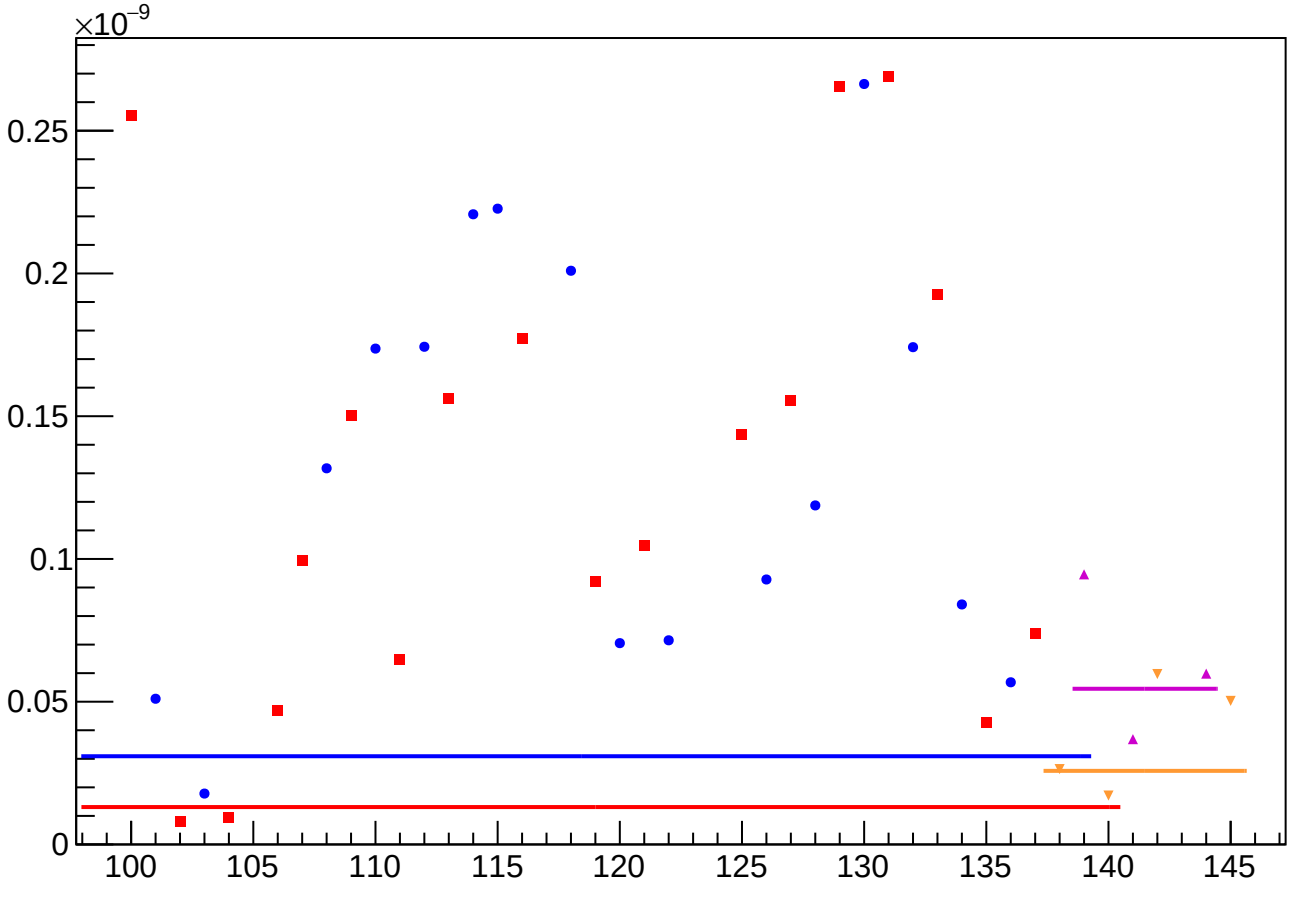
Left: -0.000+/-0.000 $\chi^2$/NDF: 15.0/6

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

In: -0.000+/-0.000 $\chi^2$/NDF:17.8/18

Out: -0.000+/-0.000 $\chi^2$/NDF:26.2/21

All: -0.000+/-0.000 $\chi^2$/NDF: 44.0/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2998577.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:367830.1/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3659260.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:293576.3/2

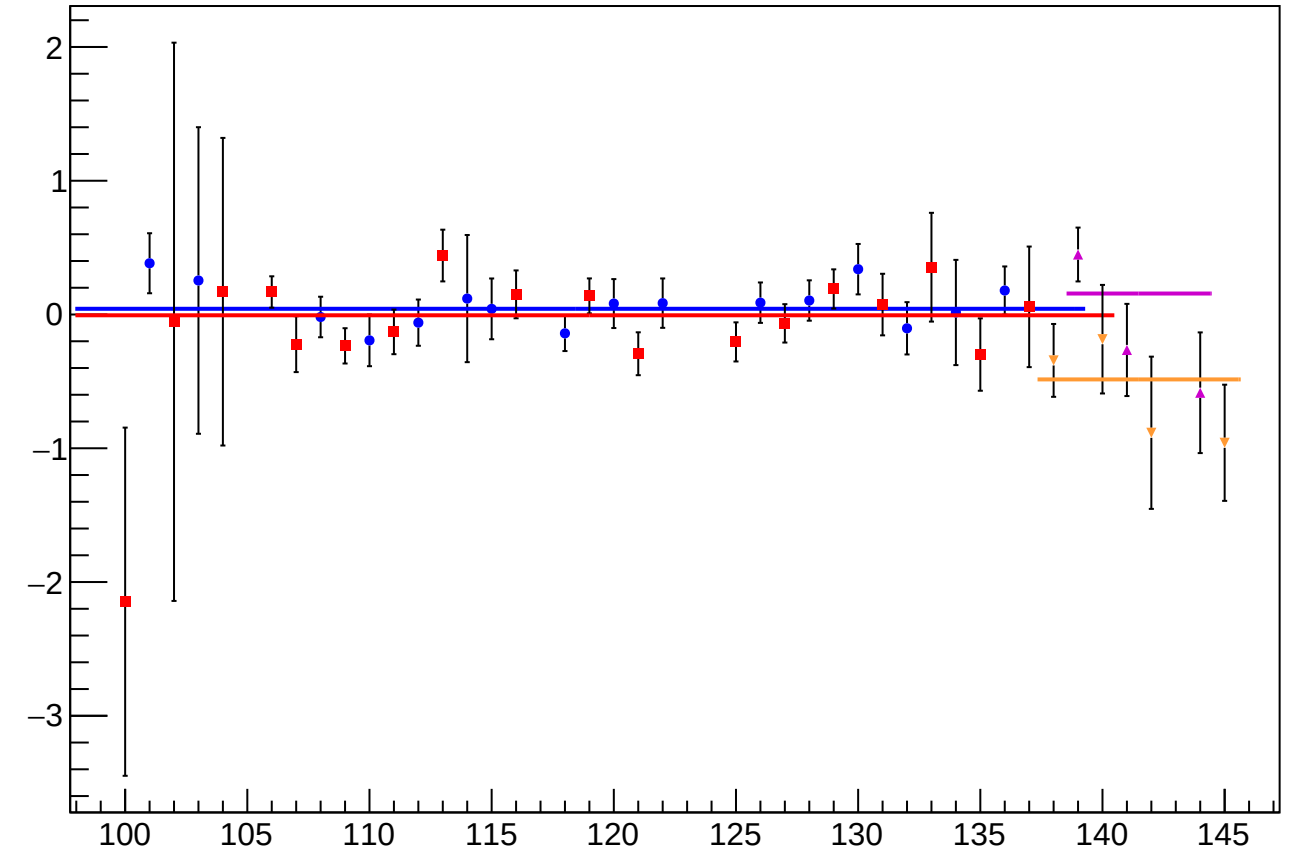
Left: 0.000+/-0.000 $\chi^2$/NDF: 1093908.1/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 7385142.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:3608692.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4302981.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 9010037.7/40




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: -0.485+/-0.189 $\chi^2$/NDF:2.5/3

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.157+/-0.162 $\chi^2$/NDF:6.3/2

Left: -0.115+/-0.123 $\chi^2$/NDF: 15.4/6

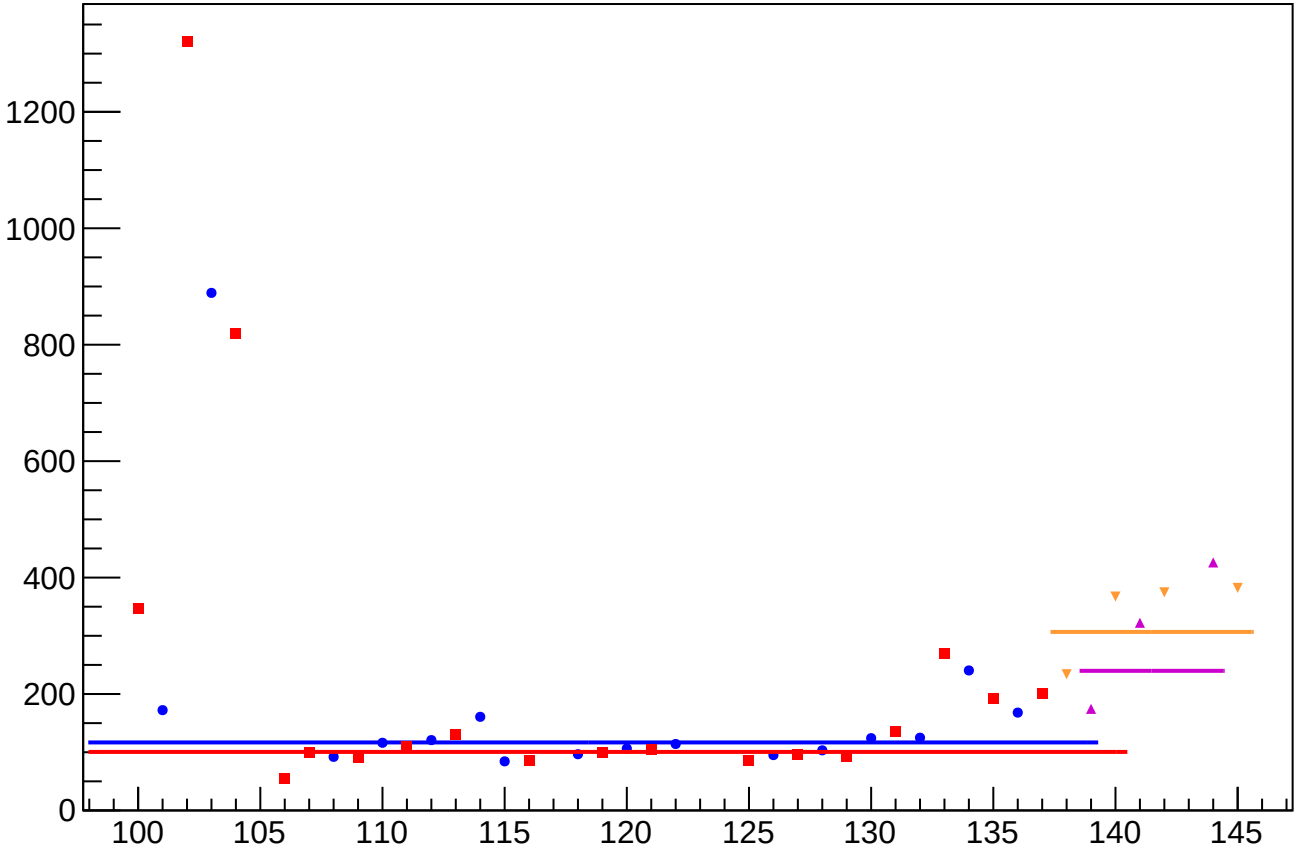
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.052+/-0.046 $\chi^2$/NDF:17.0/18

Out: -0.030+/-0.042 $\chi^2$/NDF:34.6/21

All: 0.008+/-0.031 $\chi^2$/NDF: 53.4/40

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 116.841+/-0.034 $\chi^2$/NDF: 1620809.7/15

Left Out: 306.646+/-0.134 $\chi^2$/NDF:276455.8/3

Right Out: 100.544+/-0.031 $\chi^2$/NDF: 2664151.6/17

Left In: 239.825+/-0.115 $\chi^2$/NDF:665765.1/2

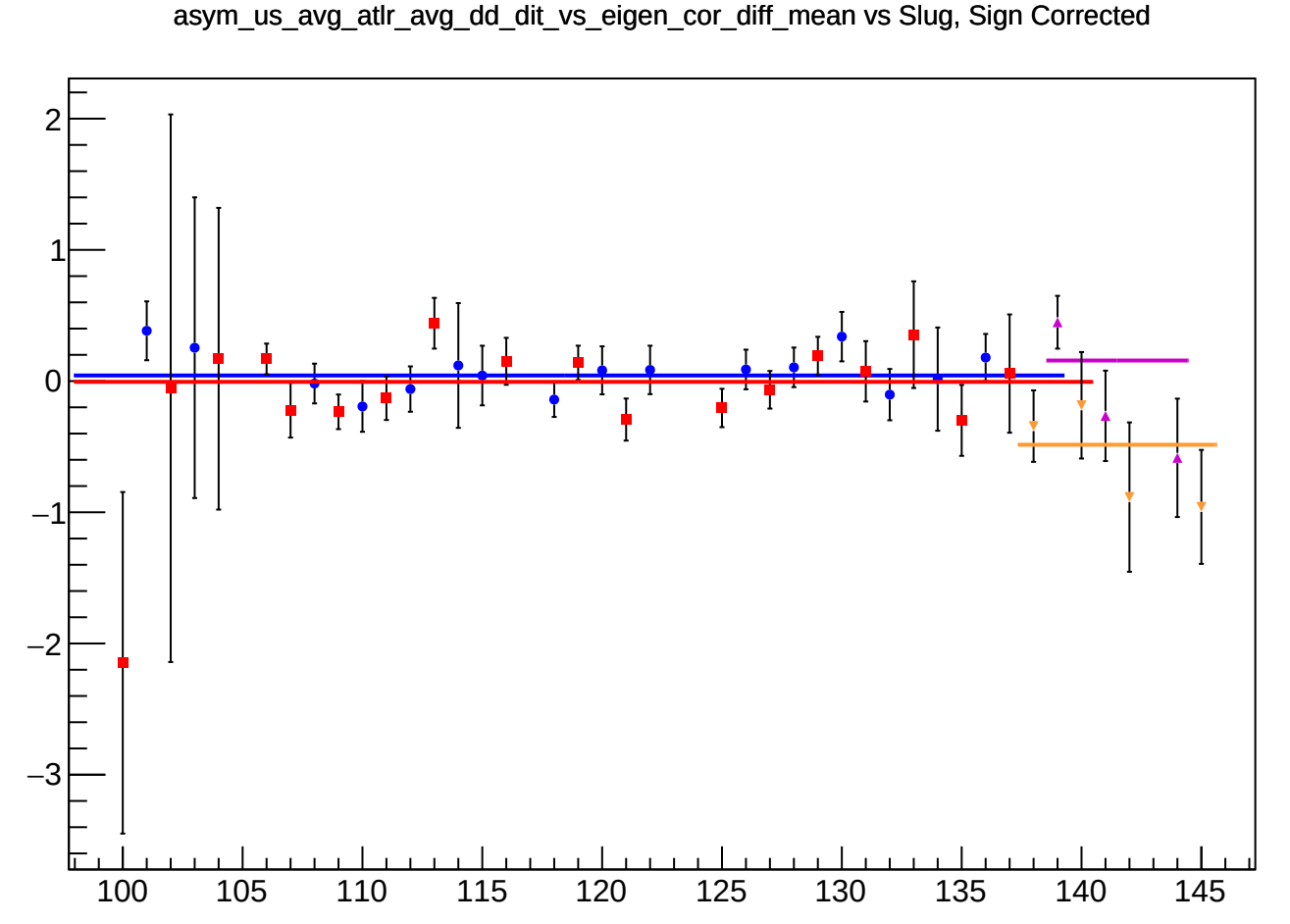
Left: 268.132+/-0.087 $\chi^2$/NDF: 1086052.2/6

Right: 107.961+/-0.023 $\chi^2$/NDF: 4413433.8/33

In: 126.545+/-0.032 $\chi^2$/NDF:3345935.8/18

Out: 110.841+/-0.030 $\chi^2$/NDF:5196002.1/21

All: 118.109+/-0.022 $\chi^2$/NDF: 8669614.7/40




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: -0.485+/-0.189 $\chi^2$/NDF:2.5/3

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.157+/-0.162 $\chi^2$/NDF:6.3/2

Left: -0.115+/-0.123 $\chi^2$/NDF: 15.4/6

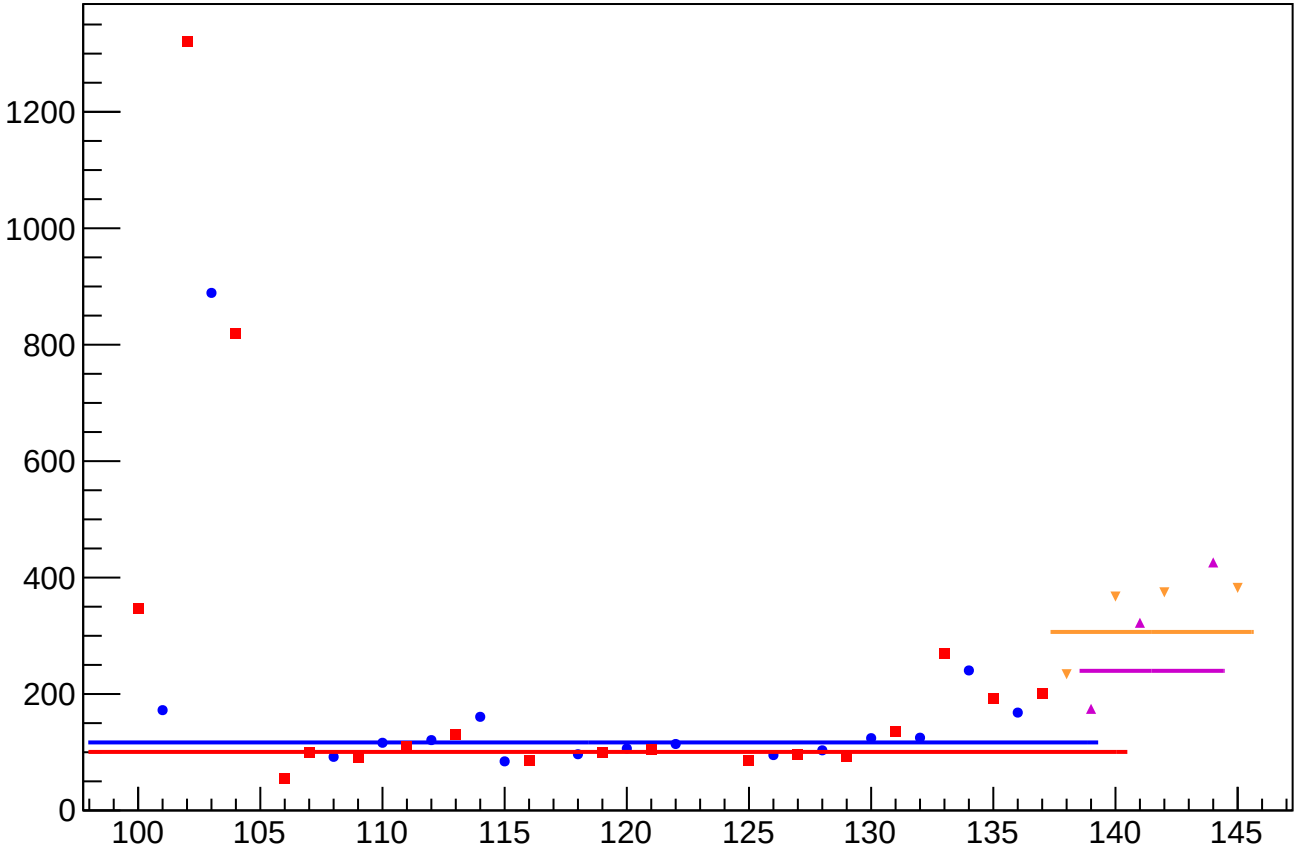
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.052+/-0.046 $\chi^2$/NDF:17.0/18

Out: -0.030+/-0.042 $\chi^2$/NDF:34.6/21

All: 0.008+/-0.031 $\chi^2$/NDF: 53.4/40

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: 306.646+/-0.134 $\chi^2$/NDF:276455.8/3

Right Out: 100.544+/-0.031 $\chi^2$/NDF: 2664151.6/17

Left In: 239.825+/-0.115 $\chi^2$/NDF:665765.1/2

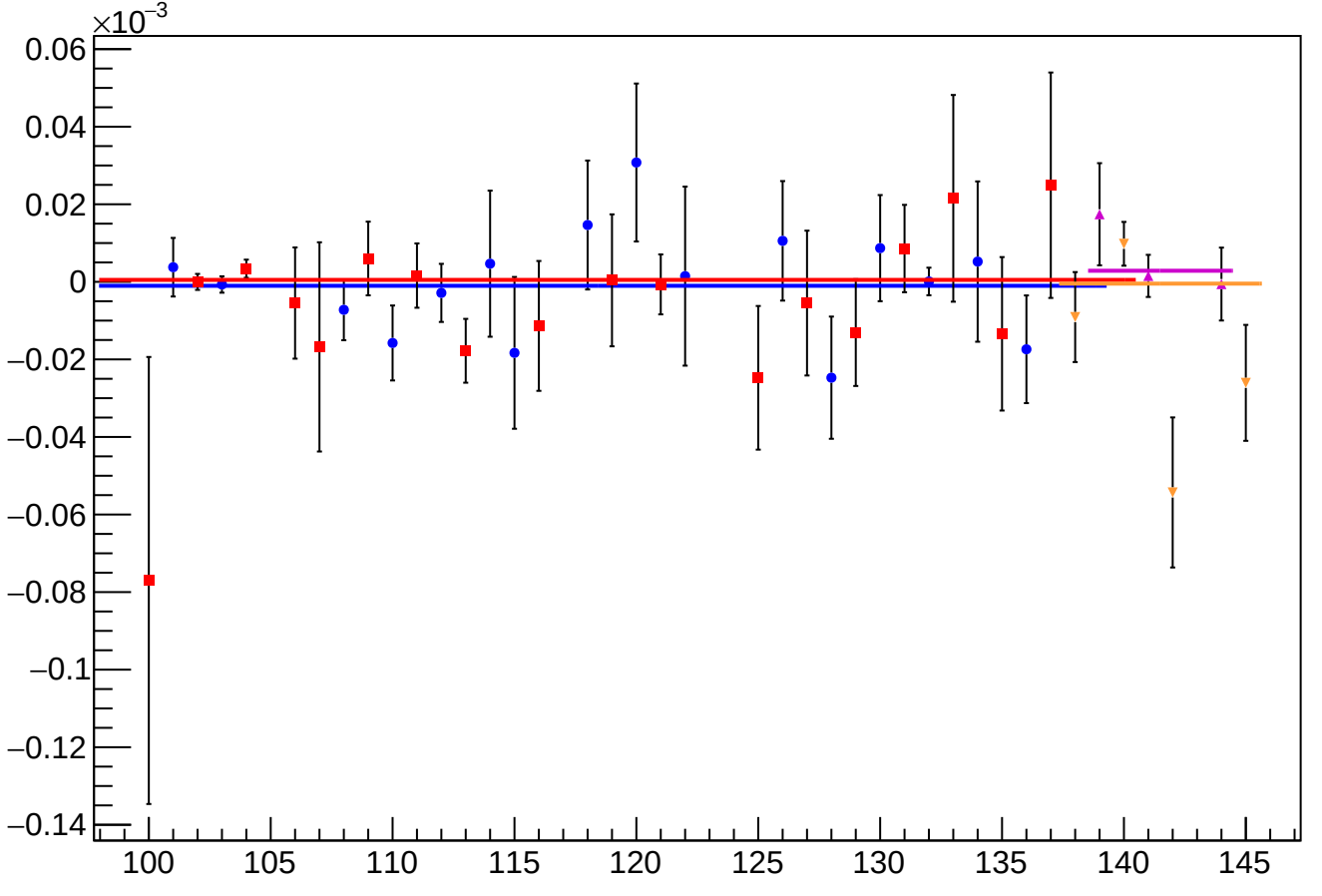
Left: 268.132+/-0.087 $\chi^2$/NDF: 1086052.2/6

Right: 107.961+/-0.023 $\chi^2$/NDF: 4413433.8/33

In: 126.545+/-0.032 $\chi^2$/NDF:3345935.8/18

Out: 110.841+/-0.030 $\chi^2$/NDF:5196002.1/21

All: 118.109+/-0.022 $\chi^2$/NDF: 8669614.7/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:14.5/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 16.2/6

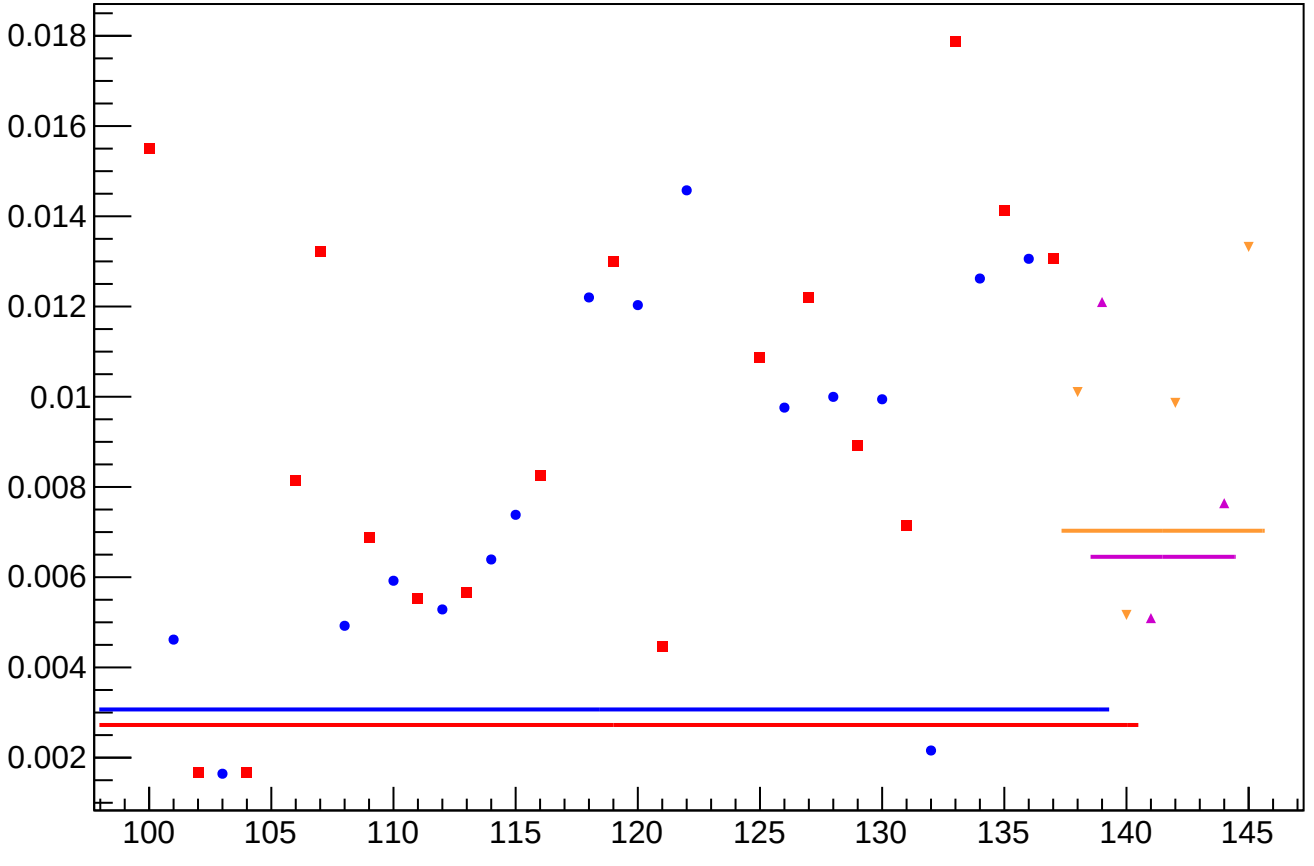
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.1/33

In: -0.000+/-0.000 $\chi^2$/NDF:14.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:29.6/21

All: -0.000+/-0.000 $\chi^2$/NDF: 44.6/40

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 5964299.9/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:756265.7/3

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6713699.1/17

Left In: 0.006+/-0.000 $\chi^2$/NDF:525168.1/2

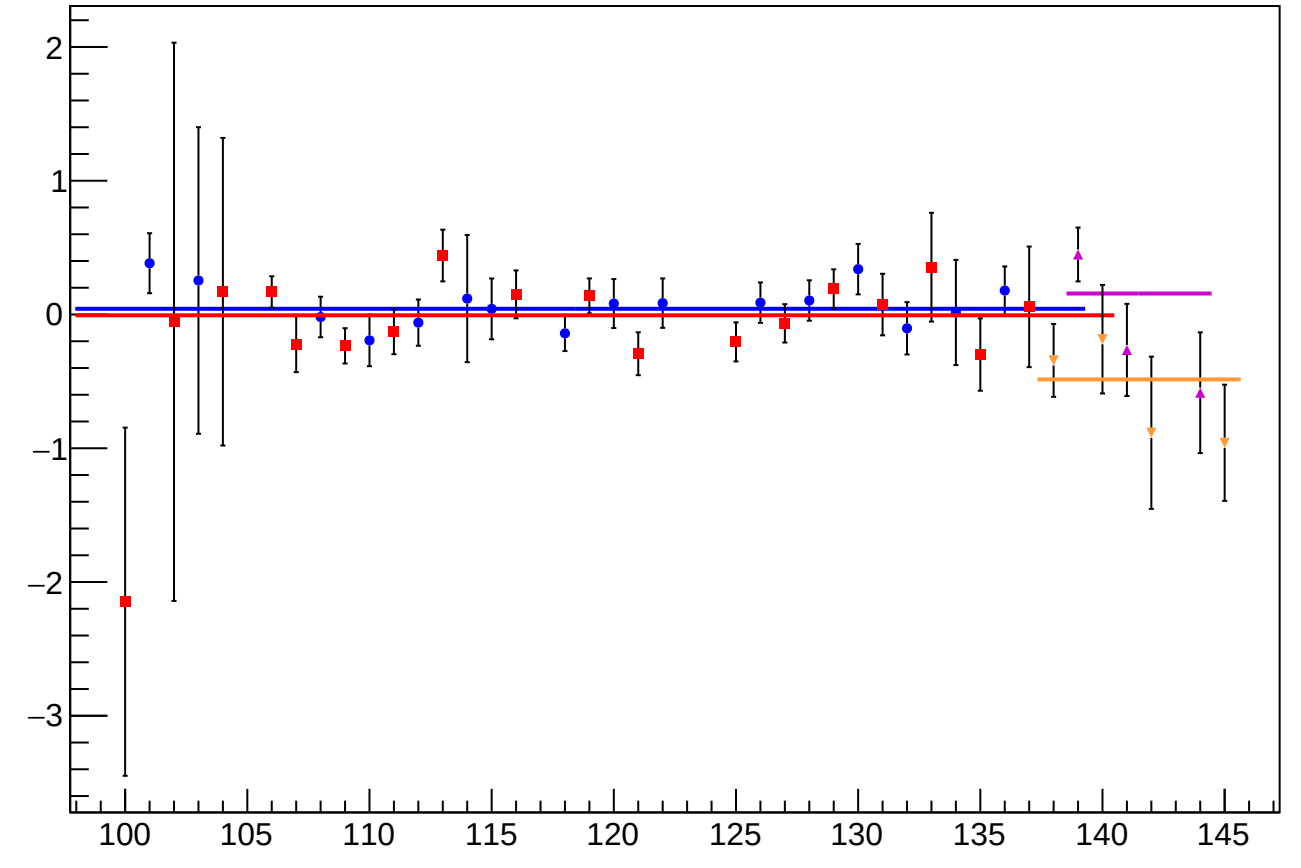
Left: 0.007+/-0.000 $\chi^2$/NDF: 1297574.0/6

Right: 0.003+/-0.000 $\chi^2$/NDF: 12731216.4/33

In: 0.003+/-0.000 $\chi^2$/NDF:7524984.9/18

Out: 0.003+/-0.000 $\chi^2$/NDF:9033940.8/21

All: 0.003+/-0.000 $\chi^2$/NDF: 16628200.0/40




Right In: 0.043+/-0.047 $\chi^2$/NDF: 10.3/15

Left Out: -0.485+/-0.189 $\chi^2$/NDF:2.5/3

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.157+/-0.162 $\chi^2$/NDF:6.3/2

Left: -0.115+/-0.123 $\chi^2$/NDF: 15.4/6

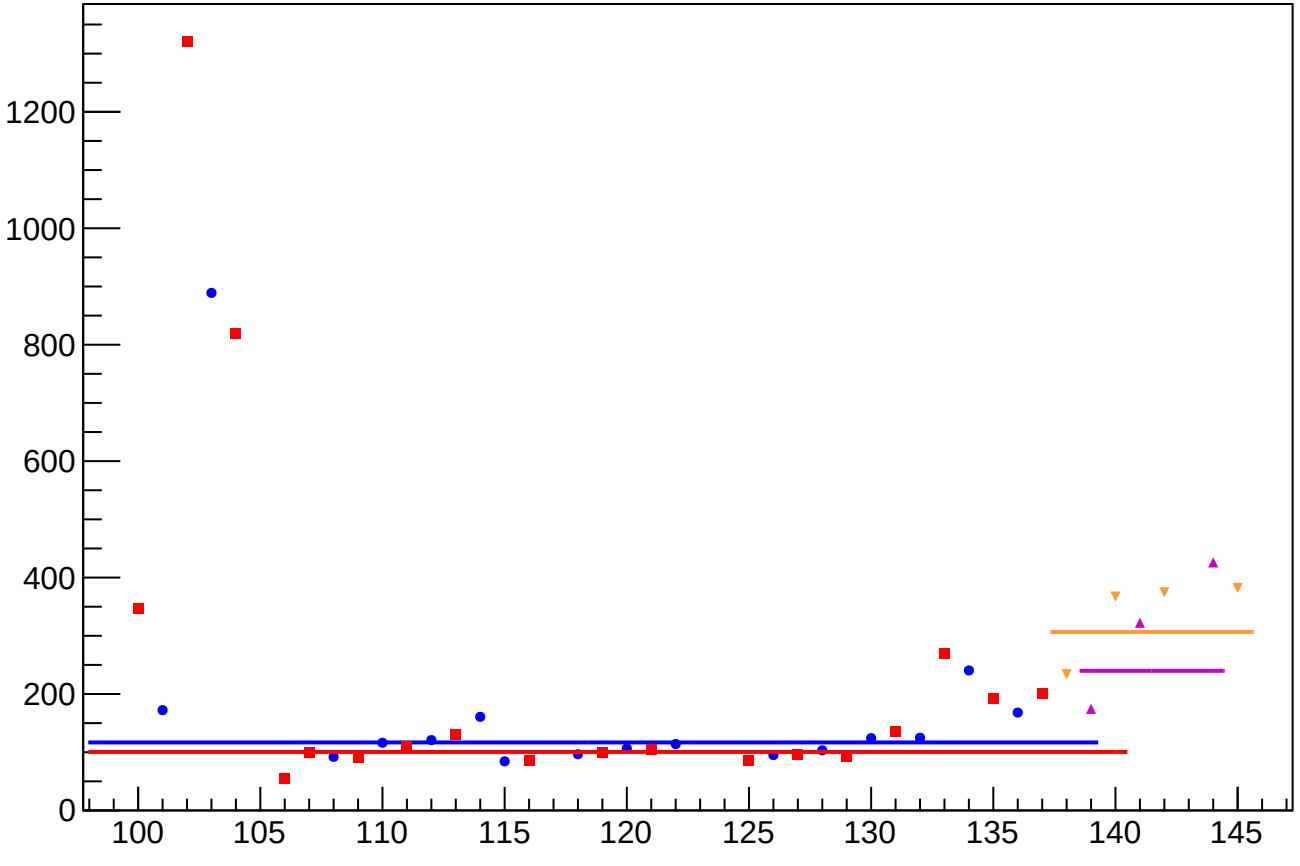
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.052+/-0.046 $\chi^2$/NDF:17.0/18

Out: -0.030+/-0.042 $\chi^2$/NDF:34.6/21

All: 0.008+/-0.031 $\chi^2$/NDF: 53.4/40

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: 306.649+/-0.134 $\chi^2$/NDF:276455.1/3

Right Out: 100.543+/-0.031 $\chi^2$/NDF: 2664231.9/17

Left In: 239.829+/-0.115 $\chi^2$/NDF:665738.4/2

Left: 268.136+/-0.087 $\chi^2$/NDF: 1086014.3/6

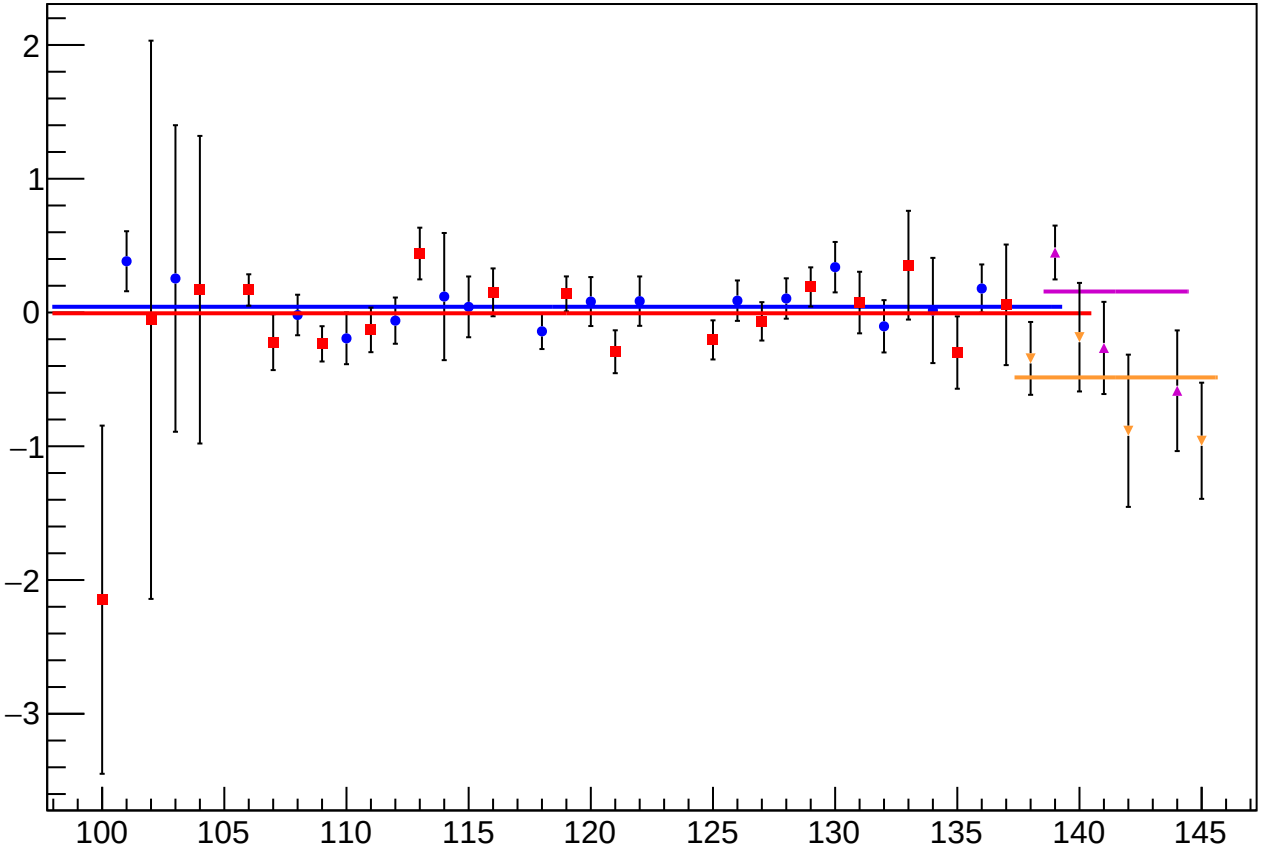
Right: 107.960+/-0.023 $\chi^2$/NDF: 4413531.7/33

In: 126.545+/-0.032 $\chi^2$/NDF:3345964.6/18

Out: 110.840+/-0.030 $\chi^2$/NDF:5196133.0/21

All: 118.108+/-0.022 $\chi^2$/NDF: 8669792.0/40

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: -0.485+/-0.189 $\chi^2$/NDF:2.5/3

Right Out: -0.006+/-0.043 $\chi^2$/NDF: 26.0/17

Left In: 0.157+/-0.162 $\chi^2$/NDF:6.3/2

Left: -0.115+/-0.123 $\chi^2$/NDF: 15.4/6

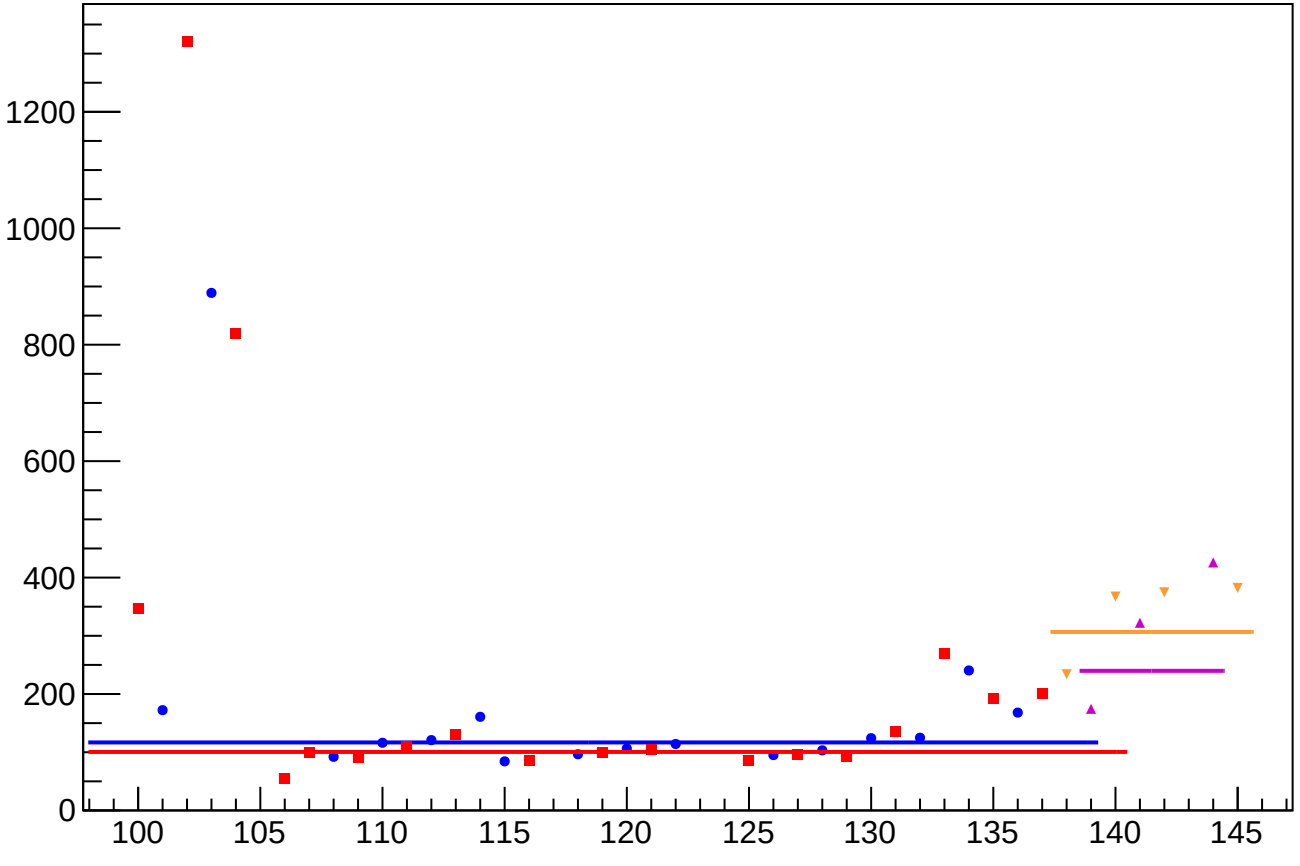
Right: 0.016+/-0.032 $\chi^2$/NDF: 36.9/33

In: 0.052+/-0.046 $\chi^2$/NDF:17.0/18

Out: -0.030+/-0.042 $\chi^2$/NDF:34.6/21

All: 0.008+/-0.031 $\chi^2$/NDF: 53.4/40

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: 306.649+/-0.134 $\chi^2$/NDF:276455.1/3

Right Out: 100.543+/-0.031 $\chi^2$/NDF: 2664231.9/17

Left In: 239.829+/-0.115 $\chi^2$/NDF:665738.4/2

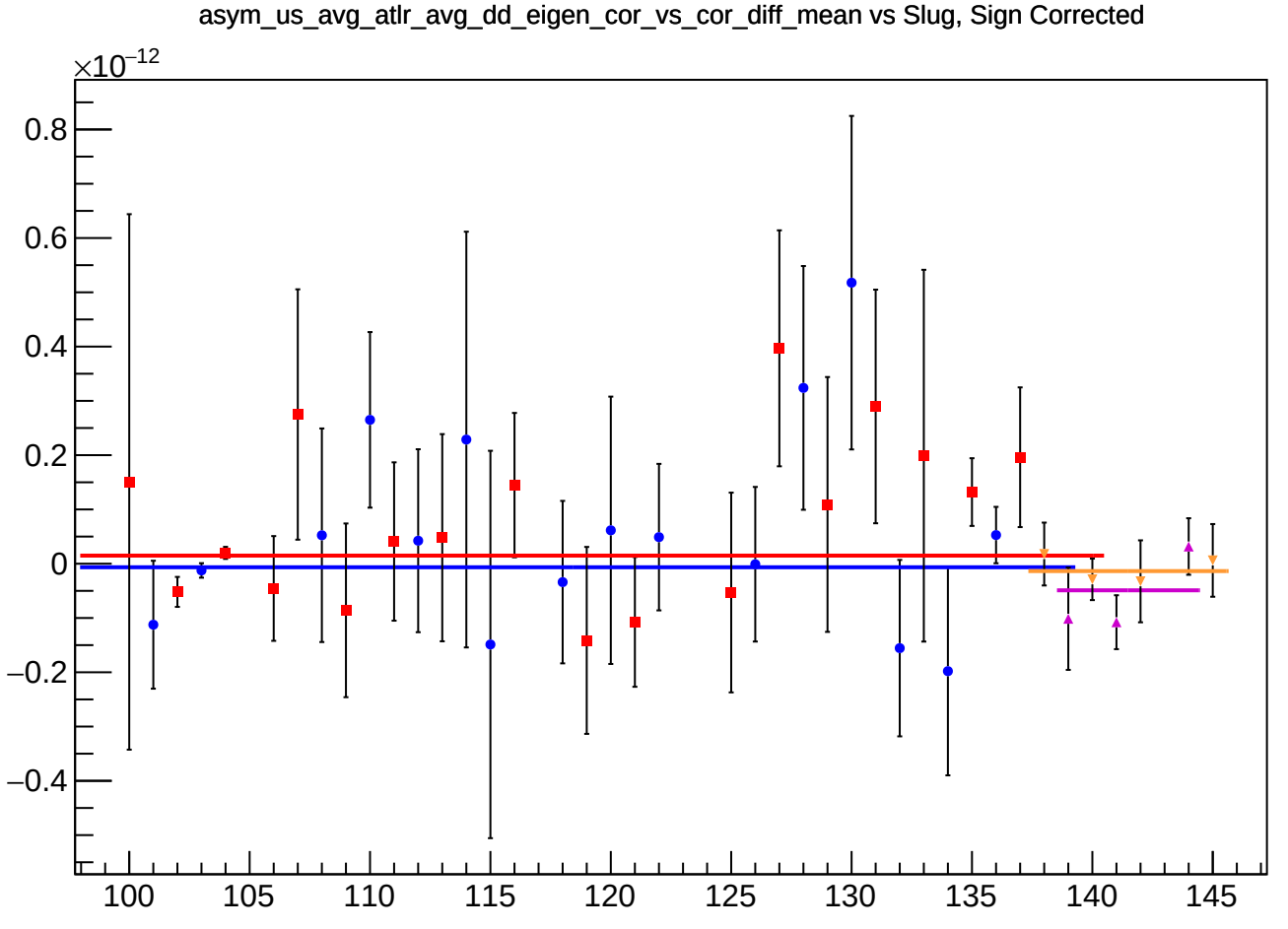
Left: 268.136+/-0.087 $\chi^2$/NDF: 1086014.3/6

Right: 107.960+/-0.023 $\chi^2$/NDF: 4413531.7/33

In: 126.545+/-0.032 $\chi^2$/NDF:3345964.6/18

Out: 110.840+/-0.030 $\chi^2$/NDF:5196133.0/21

All: 118.108+/-0.022 $\chi^2$/NDF: 8669792.0/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:0.6/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.9/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:4.1/2

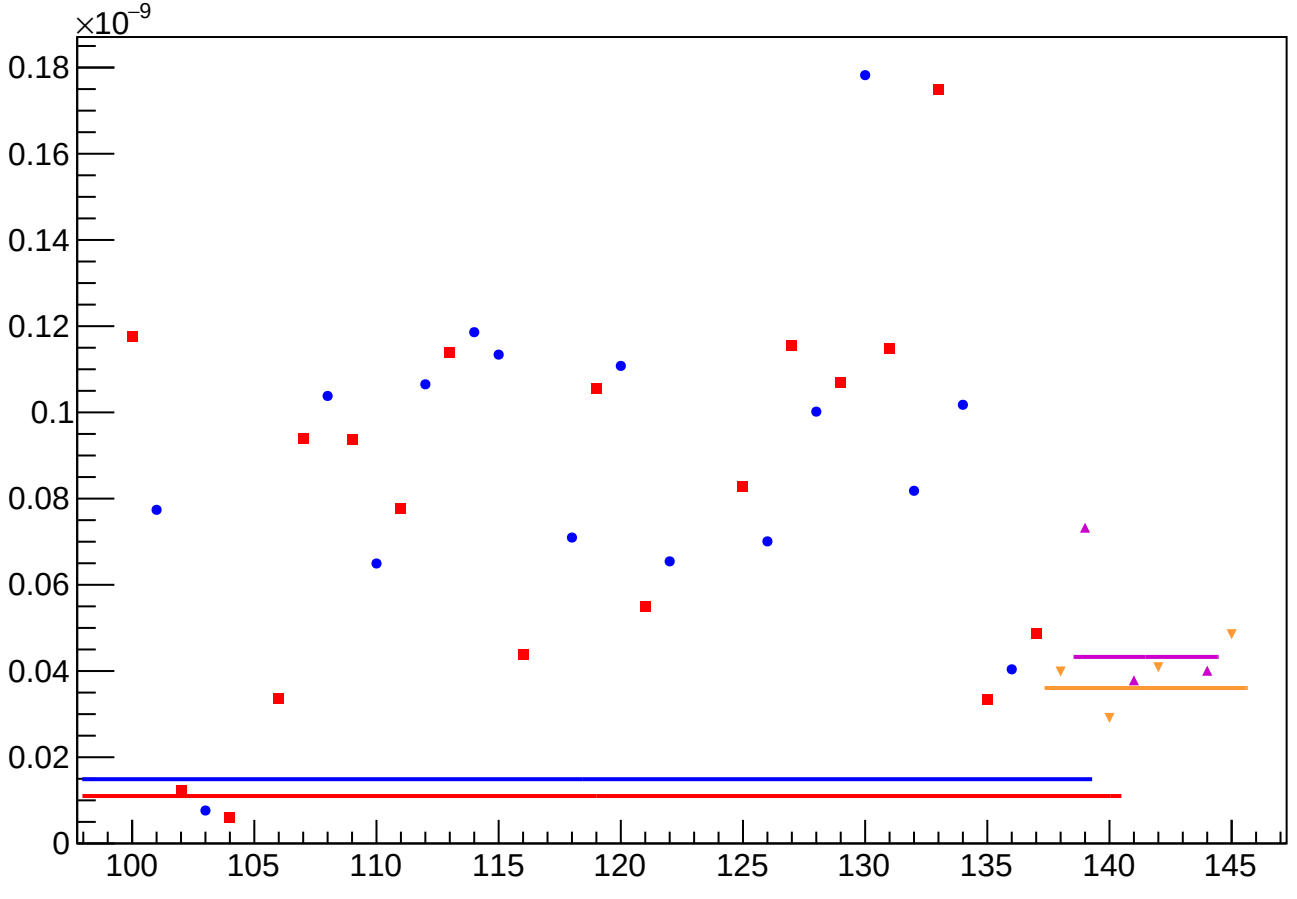
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.4/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 36.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:18.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 44.4/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5893030.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:152395.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5866969.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:234075.6/2

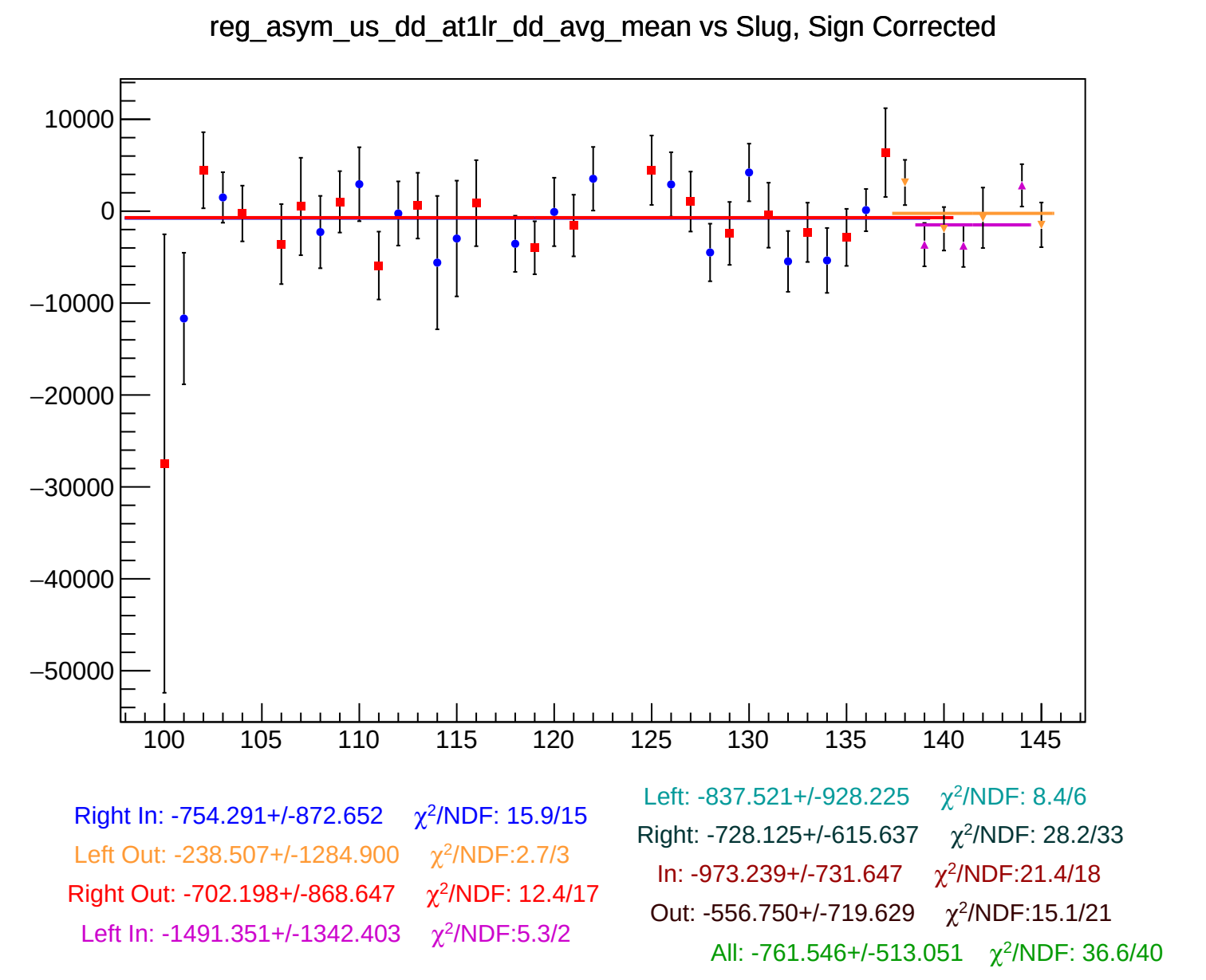
Left: 0.000+/-0.000 $\chi^2$/NDF: 442648.9/6

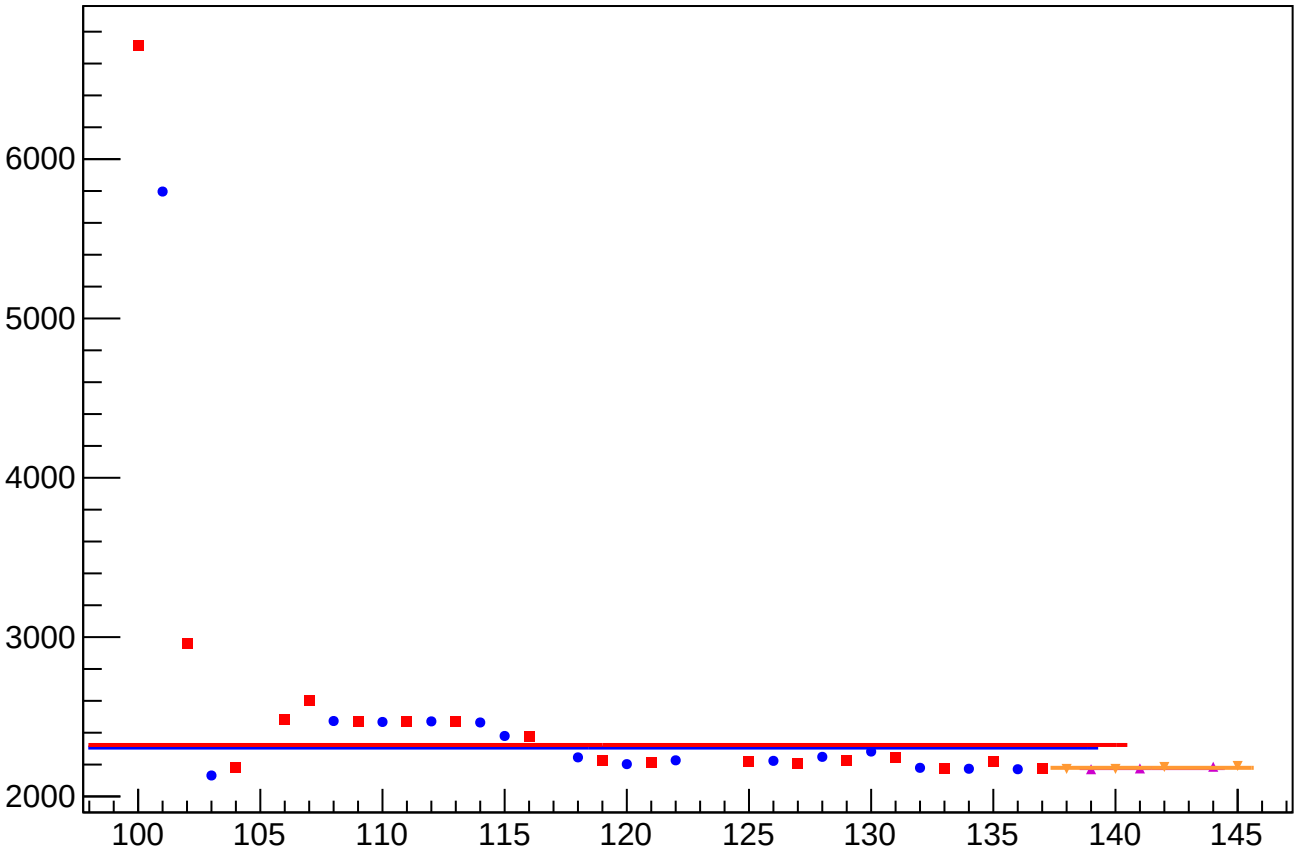
Right: 0.000+/-0.000 $\chi^2$/NDF: 11880361.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:7381333.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:7549007.9/21

All: 0.000+/-0.000 $\chi^2$/NDF: 15101154.4/40


reg_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
105
110
115
120
125
130
135
140
145
Right In: -754.291+/-872.652 χ²/NDF: 15.9/15
Left Out: -238.507+/-1284.900 χ²/NDF:2.7/3
Right Out: -702.198+/-868.647 χ²/NDF: 12.4/17
Left In: -1491.351+/-1342.403 χ²/NDF:5.3/2
Left: -837.521+/-928.225 χ²/NDF: 8.4/6
Right: -728.125+/-615.637 χ²/NDF: 28.2/33
In: -973.239+/-731.647 χ²/NDF:21.4/18
Out: -556.750+/-719.629 χ²/NDF:15.1/21
All: -761.546+/-513.051 χ²/NDF: 36.6/40




Right In: 2306.643+/-0.617 $\chi^2$/NDF: 514150.3/15

Left Out: 2179.625+/-0.909 $\chi^2$/NDF:83.7/3

Right Out: 2323.010+/-0.614 $\chi^2$/NDF: 151787.1/17

Left In: 2177.935+/-0.949 $\chi^2$/NDF:47.0/2

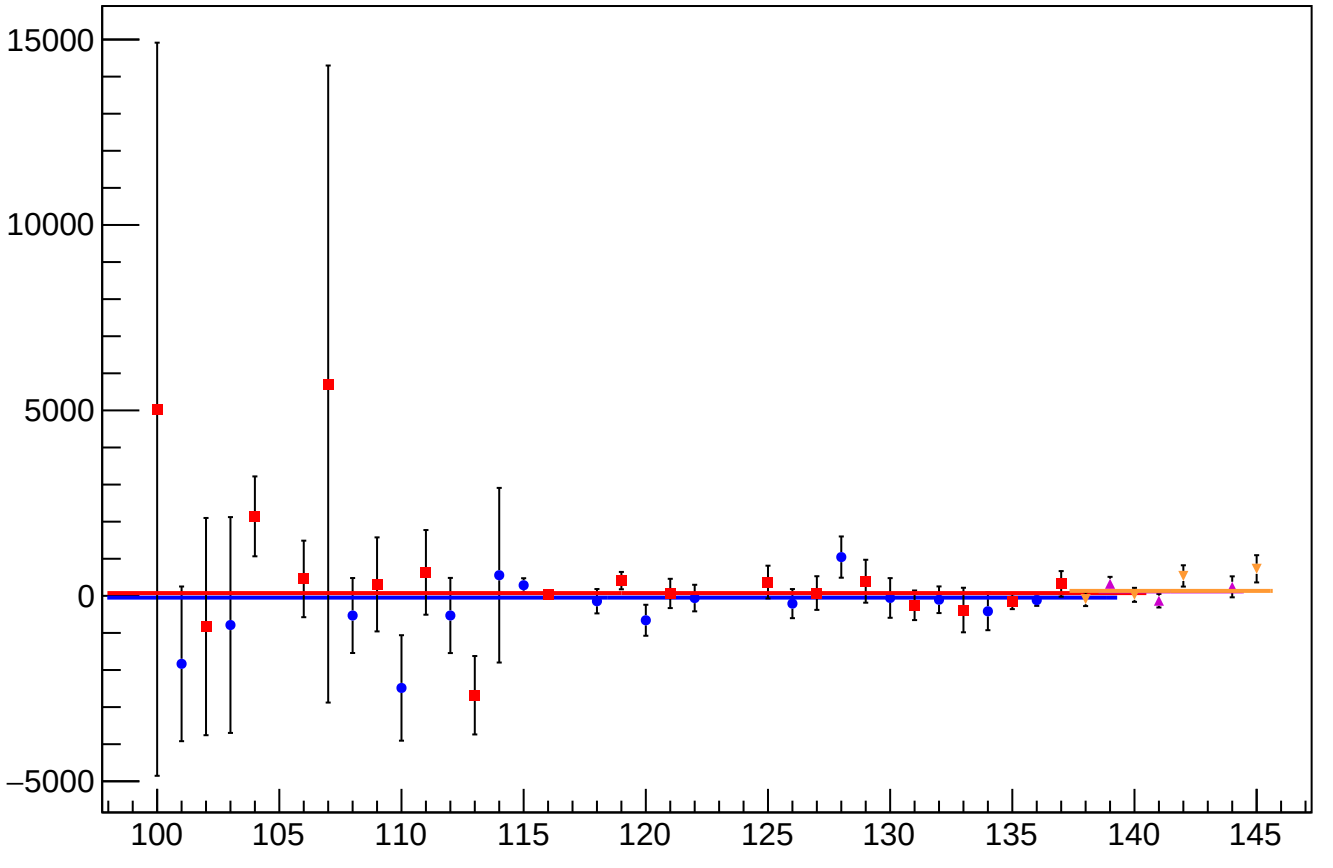
Left: 2178.817+/-0.656 $\chi^2$/NDF: 132.3/6

Right: 2314.864+/-0.435 $\chi^2$/NDF: 666290.7/33

In: 2268.410+/-0.517 $\chi^2$/NDF:527121.3/18

Out: 2278.034+/-0.509 $\chi^2$/NDF:168964.2/21

All: 2273.302+/-0.363 $\chi^2$/NDF: 696261.4/40




Right In: -47.927+/-90.914 $\chi^2$/NDF: 14.4/15

Left Out: 133.249+/-114.693 $\chi^2$/NDF:6.3/3

Right Out: 74.200+/-82.384 $\chi^2$/NDF: 17.6/17

Left In: 118.973+/-118.607 $\chi^2$/NDF:3.3/2

Left: 126.350+/-82.449 $\chi^2$/NDF: 9.6/6

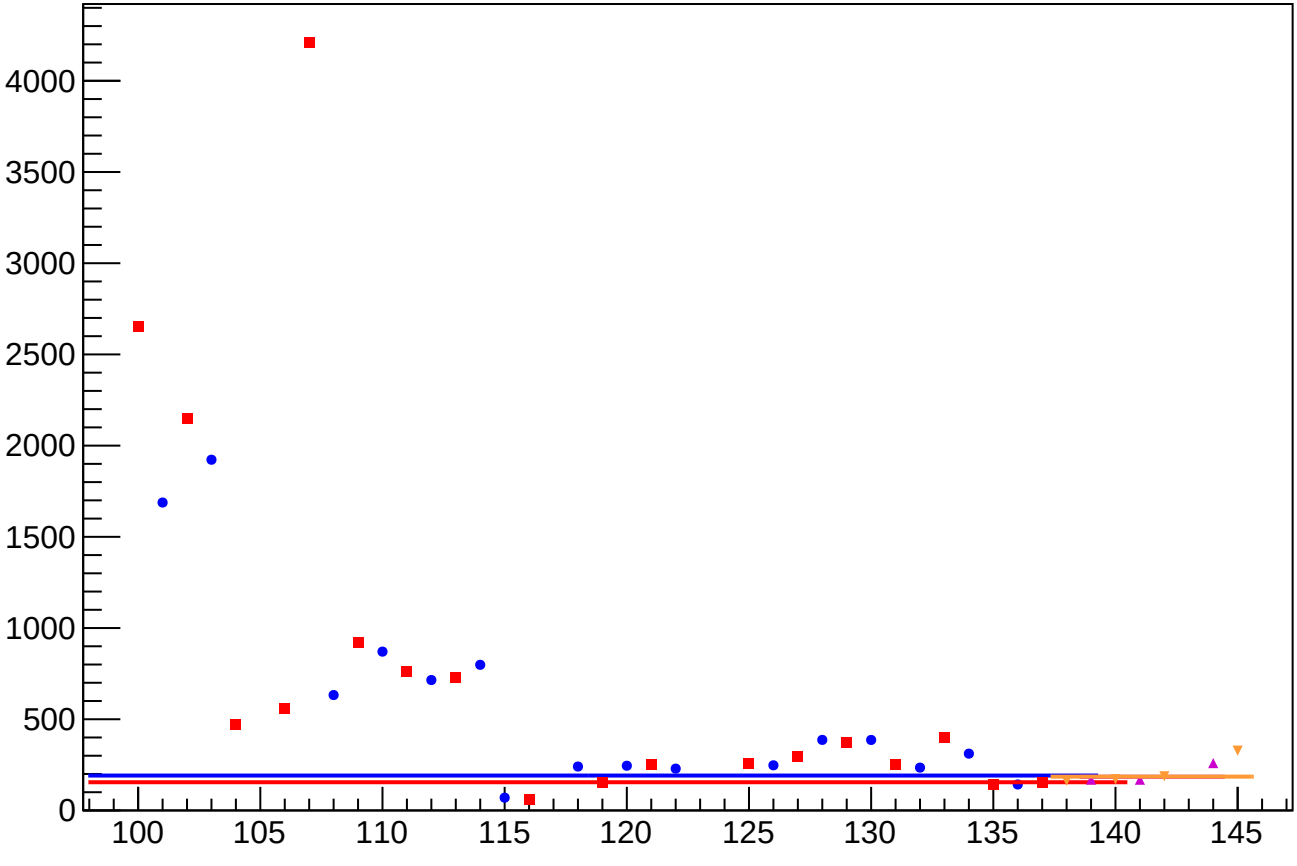
Right: 19.134+/-61.048 $\chi^2$/NDF: 33.0/33

In: 13.843+/-72.155 $\chi^2$/NDF:18.9/18

Out: 94.297+/-66.911 $\chi^2$/NDF:24.1/21

All: 57.100+/-49.063 $\chi^2$/NDF: 43.7/40

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 191.381+/-0.064 $\chi^2$/NDF: 5064747.7/15

Left Out: 185.514+/-0.081 $\chi^2$/NDF:343647.0/3

Right Out: 154.677+/-0.058 $\chi^2$/NDF: 6154285.9/17

Left In: 184.650+/-0.084 $\chi^2$/NDF:169810.9/2

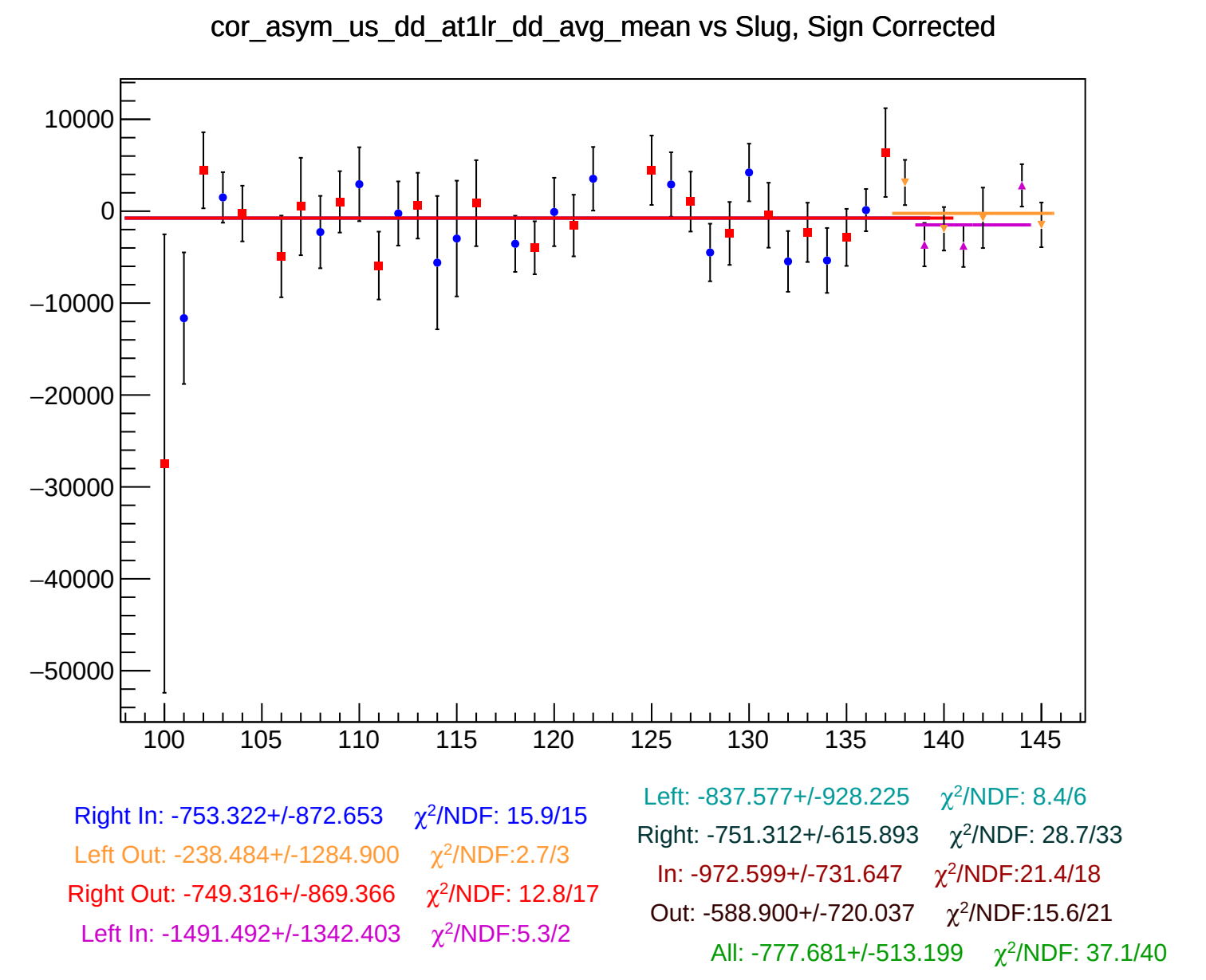
Left: 185.097+/-0.058 $\chi^2$/NDF: 513512.8/6

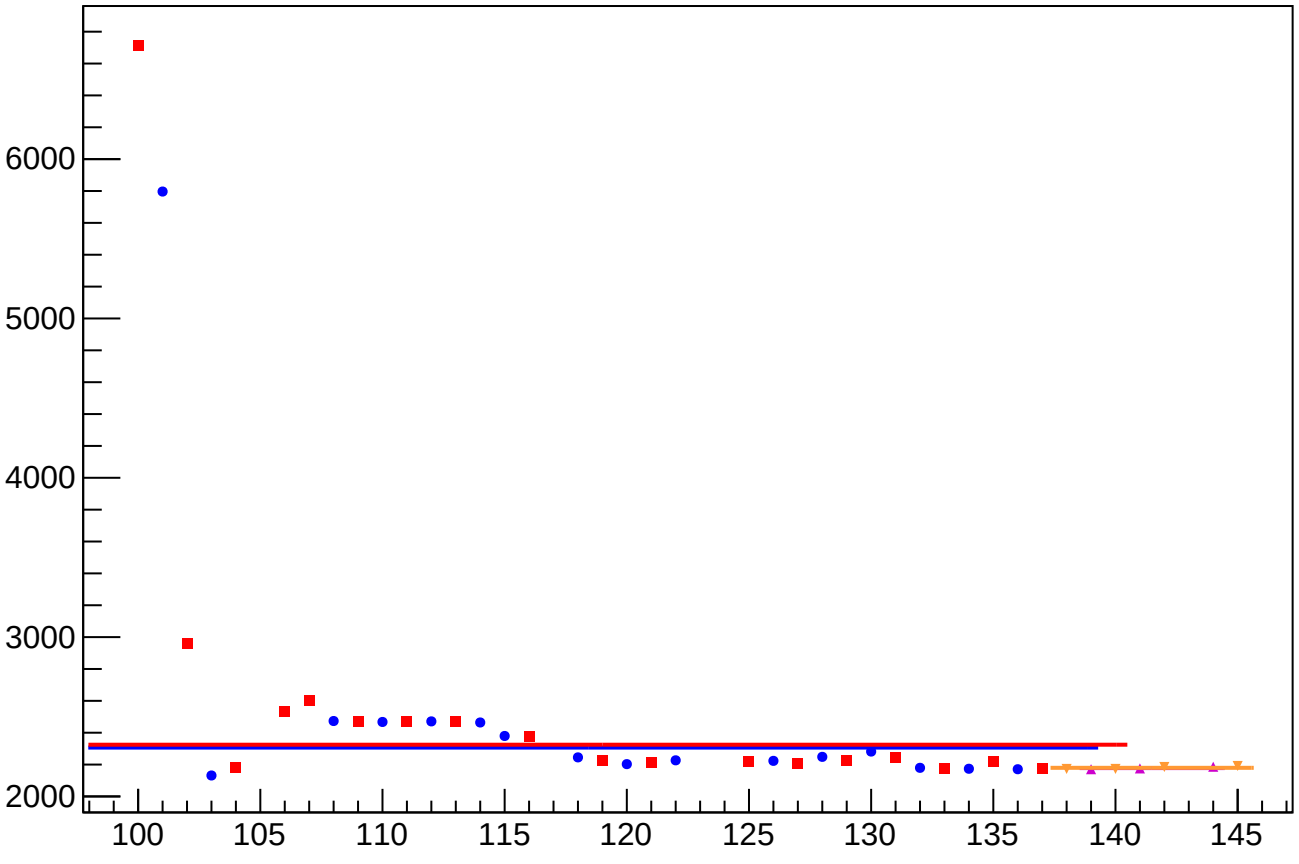
Right: 171.226+/-0.043 $\chi^2$/NDF: 11398031.5/33

In: 188.890+/-0.051 $\chi^2$/NDF:5238615.4/18

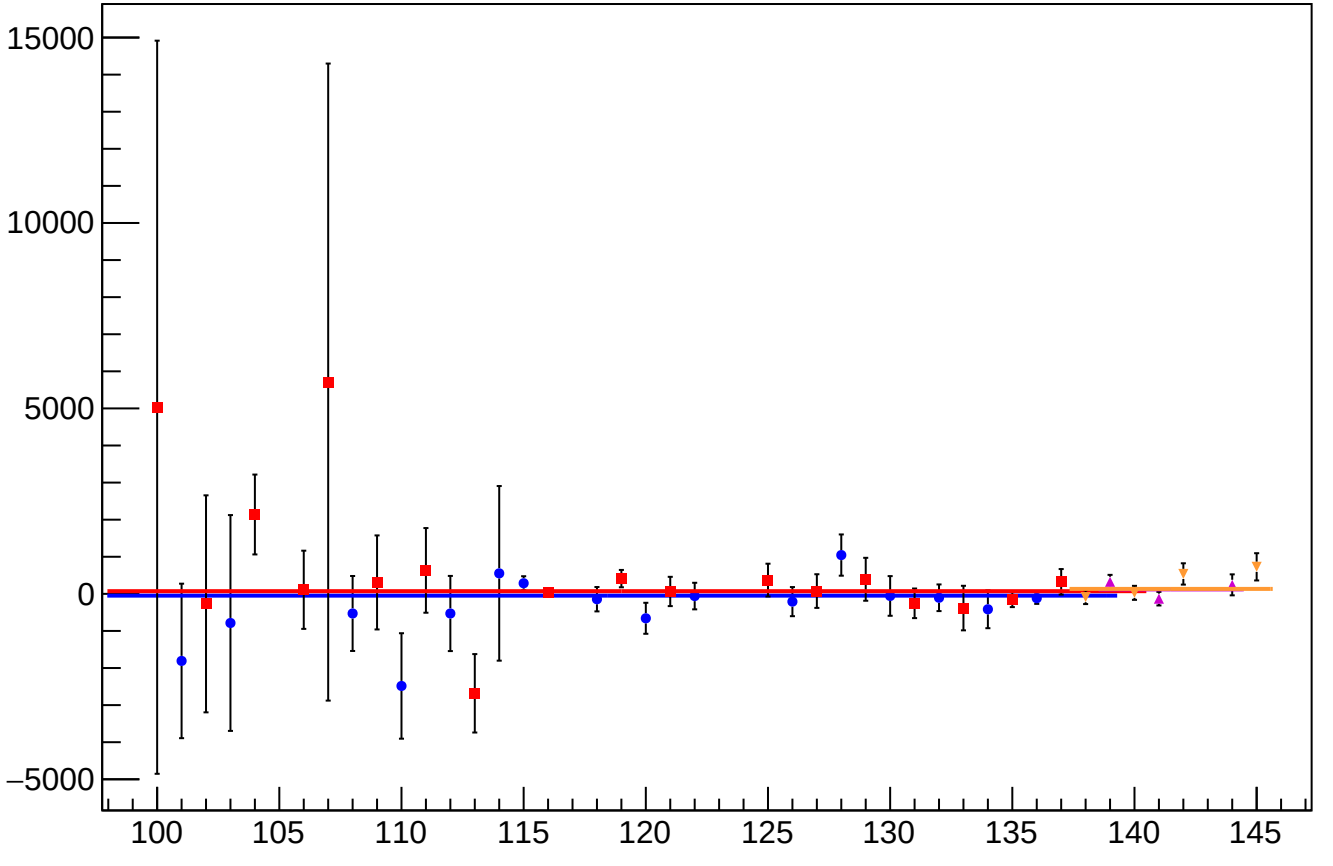
Out: 165.172+/-0.047 $\chi^2$/NDF:6593308.7/21

All: 176.138+/-0.035 $\chi^2$/NDF: 11948104.3/40


cor_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
105
110
115
120
125
130
135
140
145
Right In: -753.322+/-872.653 χ²/NDF: 15.9/15
Left Out: -238.484+/-1284.900 χ²/NDF:2.7/3
Right Out: -749.316+/-869.366 χ²/NDF: 12.8/17
Left In: -1491.492+/-1342.403 χ²/NDF:5.3/2
Left: -837.577+/-928.225 χ²/NDF: 8.4/6
Right: -751.312+/-615.893 χ²/NDF: 28.7/33
In: -972.599+/-731.647 χ²/NDF:21.4/18
Out: -588.900+/-720.037 χ²/NDF:15.6/21
All: -777.681+/-513.199 χ²/NDF: 37.1/40


cor_asym_us_dd_at1lr_dd_avg_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
100
105
110
115
120
125
130
135
140
145
Right In: 2306.643+/-0.617 χ²/NDF: 514150.6/15
Left Out: 2179.625+/-0.909 χ²/NDF:83.7/3
Right Out: 2324.685+/-0.615 χ²/NDF: 153578.5/17
Left In: 2177.935+/-0.949 χ²/NDF:47.0/2
Left: 2178.817+/-0.656 χ²/NDF: 132.3/6
Right: 2315.698+/-0.436 χ²/NDF: 668158.1/33
In: 2268.410+/-0.517 χ²/NDF:527121.6/18
Out: 2279.132+/-0.509 χ²/NDF:171148.0/21
All: 2273.857+/-0.363 χ²/NDF: 698487.8/40

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: 133.352+/-114.693 $\chi^2$/NDF:6.3/3

Right Out: 72.198+/-82.322 $\chi^2$/NDF: 17.4/17

Left In: 119.220+/-118.610 $\chi^2$/NDF:3.3/2

Left: 126.523+/-82.450 $\chi^2$/NDF: 9.6/6

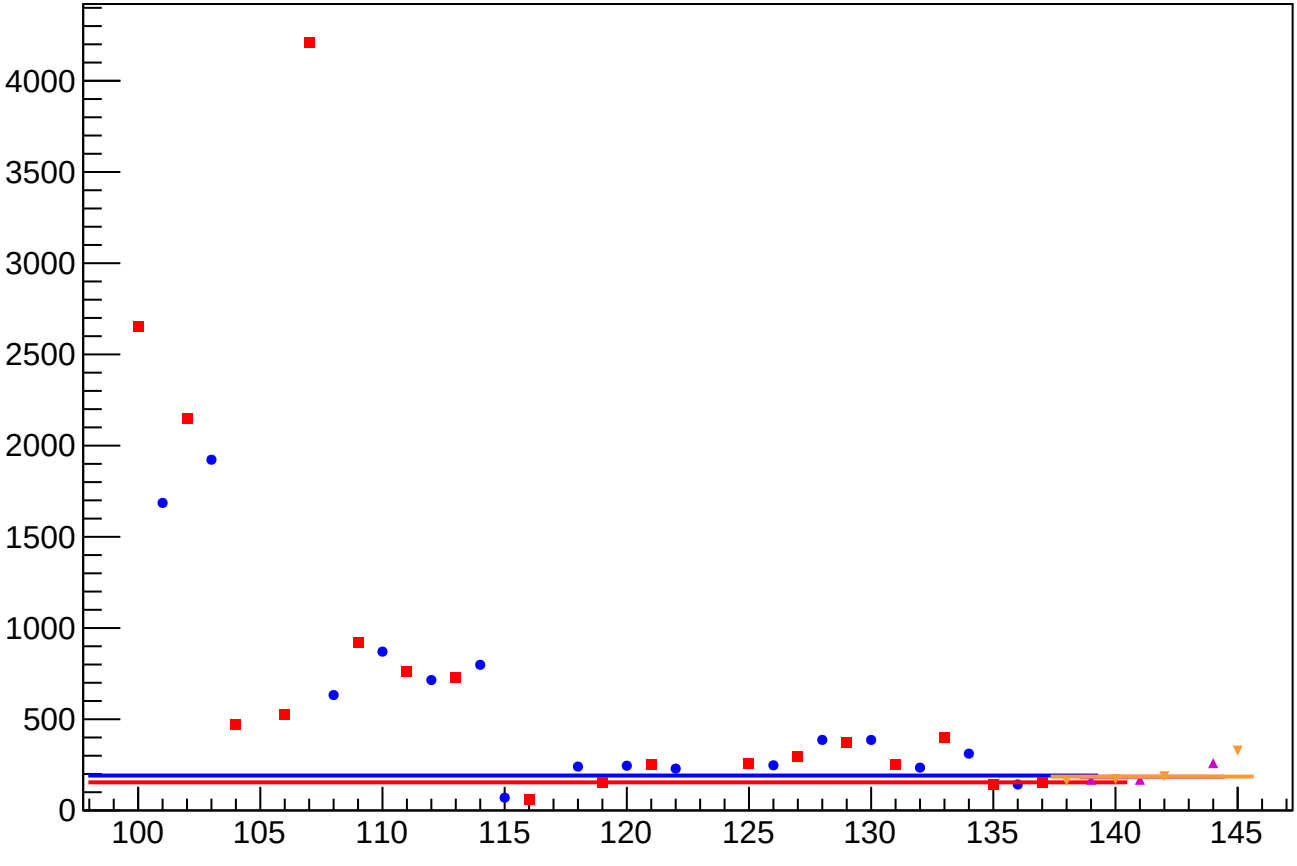
Right: 18.067+/-61.024 $\chi^2$/NDF: 32.7/33

In: 13.916+/-72.159 $\chi^2$/NDF:18.9/18

Out: 92.991+/-66.878 $\chi^2$/NDF:23.9/21

All: 56.452+/-49.051 $\chi^2$/NDF: 43.4/40

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: 185.514+/-0.081 $\chi^2$/NDF:343729.7/3

Right Out: 154.121+/-0.058 $\chi^2$/NDF: 6108665.0/17

Left In: 184.654+/-0.084 $\chi^2$/NDF:169785.1/2

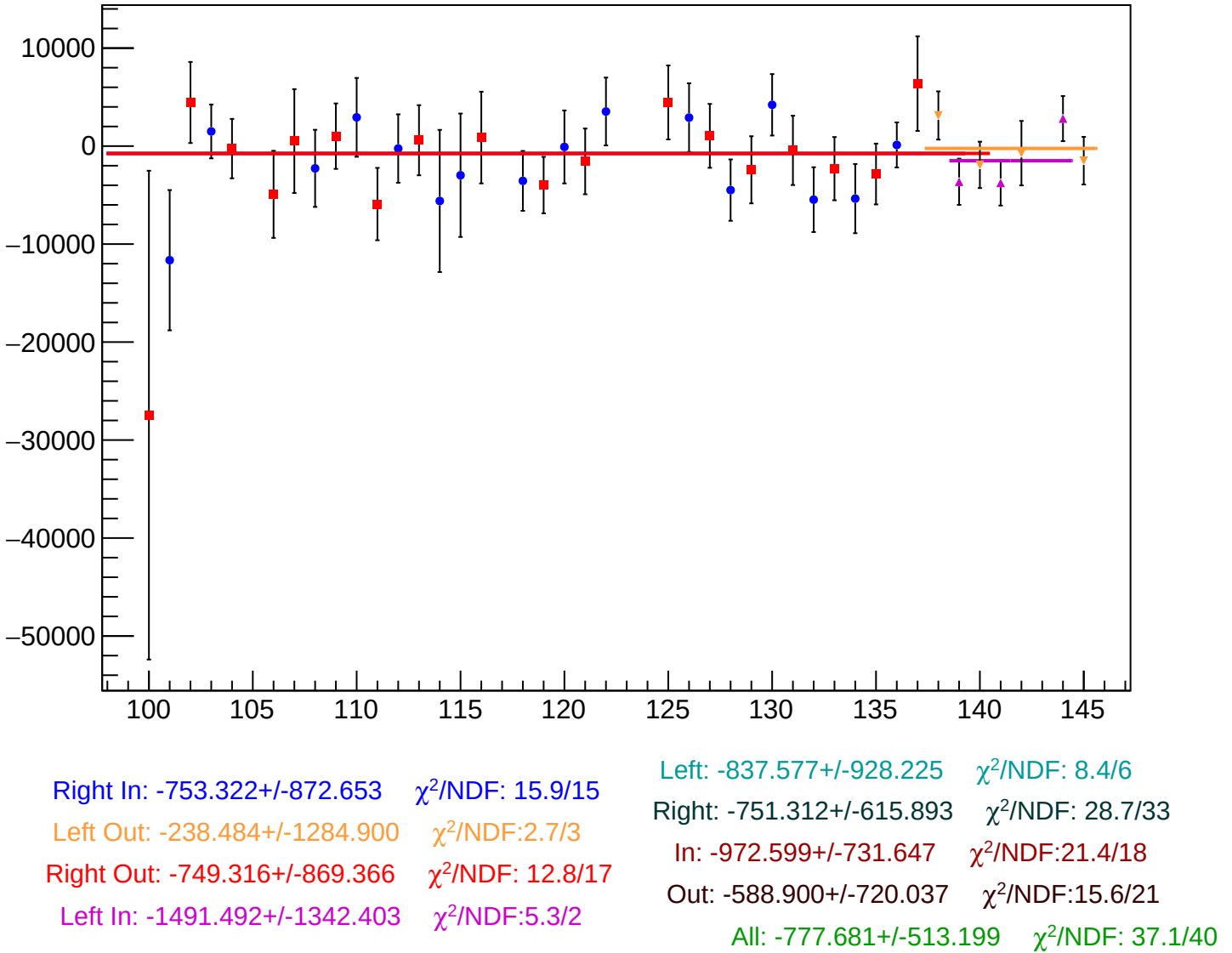
Left: 185.099+/-0.058 $\chi^2$/NDF: 513569.2/6

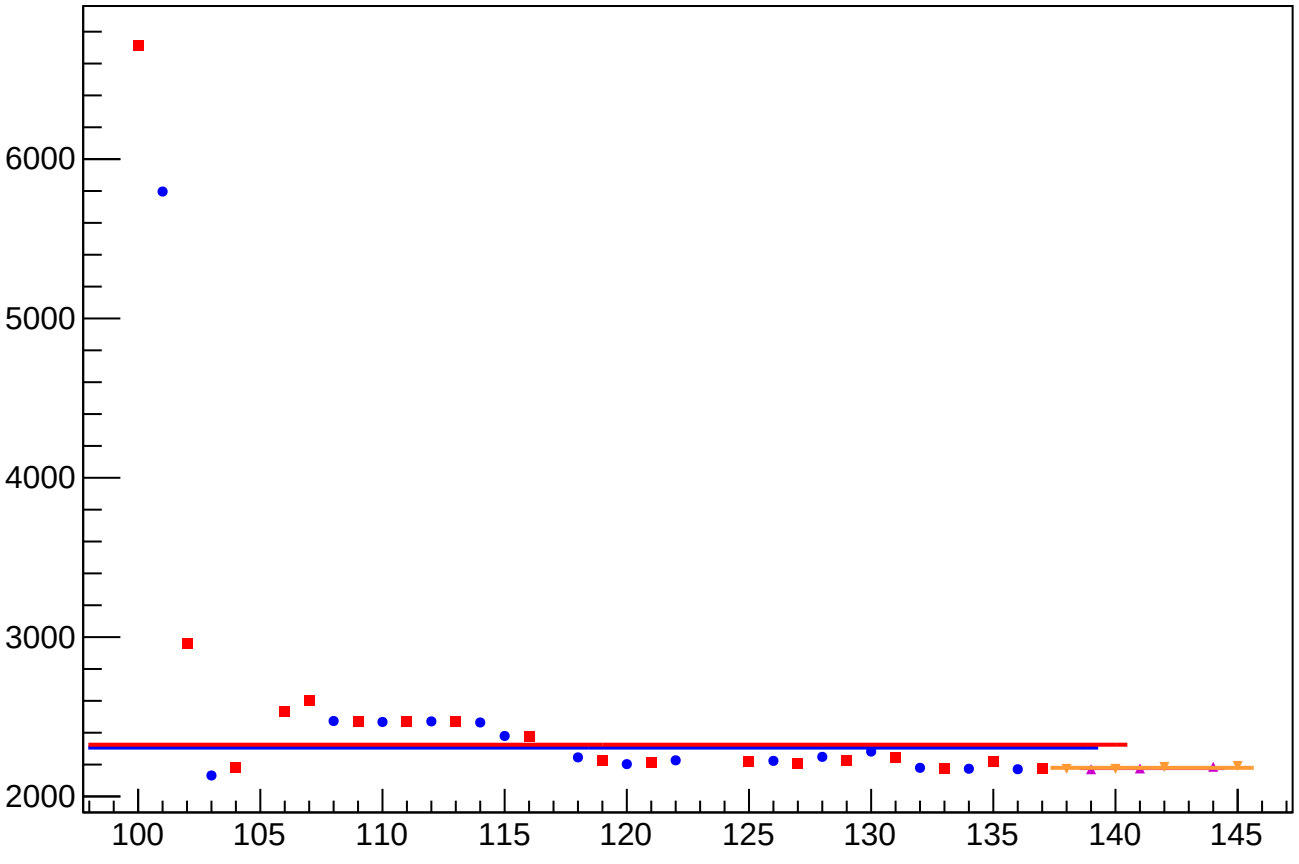
Right: 170.917+/-0.043 $\chi^2$/NDF: 11357079.8/33

In: 188.906+/-0.051 $\chi^2$/NDF:5237469.7/18

Out: 164.795+/-0.047 $\chi^2$/NDF:6551287.8/21

All: 175.936+/-0.035 $\chi^2$/NDF: 11908876.8/40


eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
105
110
115
120
125
130
135
140
145
Right In: -753.322+/-872.653 χ²/NDF: 15.9/15
Left Out: -238.484+/-1284.900 χ²/NDF:2.7/3
Right Out: -749.316+/-869.366 χ²/NDF: 12.8/17
Left In: -1491.492+/-1342.403 χ²/NDF:5.3/2
Left: -837.577+/-928.225 χ²/NDF: 8.4/6
Right: -751.312+/-615.893 χ²/NDF: 28.7/33
In: -972.599+/-731.647 χ²/NDF:21.4/18
Out: -588.900+/-720.037 χ²/NDF:15.6/21
All: -777.681+/-513.199 χ²/NDF: 37.1/40




Right In: 2306.643+/-0.617 $\chi^2$/NDF: 514150.6/15

Left Out: 2179.625+/-0.909 $\chi^2$/NDF:83.7/3

Right Out: 2324.685+/-0.615 $\chi^2$/NDF: 153578.5/17

Left In: 2177.935+/-0.949 $\chi^2$/NDF:47.0/2

Left: 2178.817+/-0.656 $\chi^2$/NDF: 132.3/6

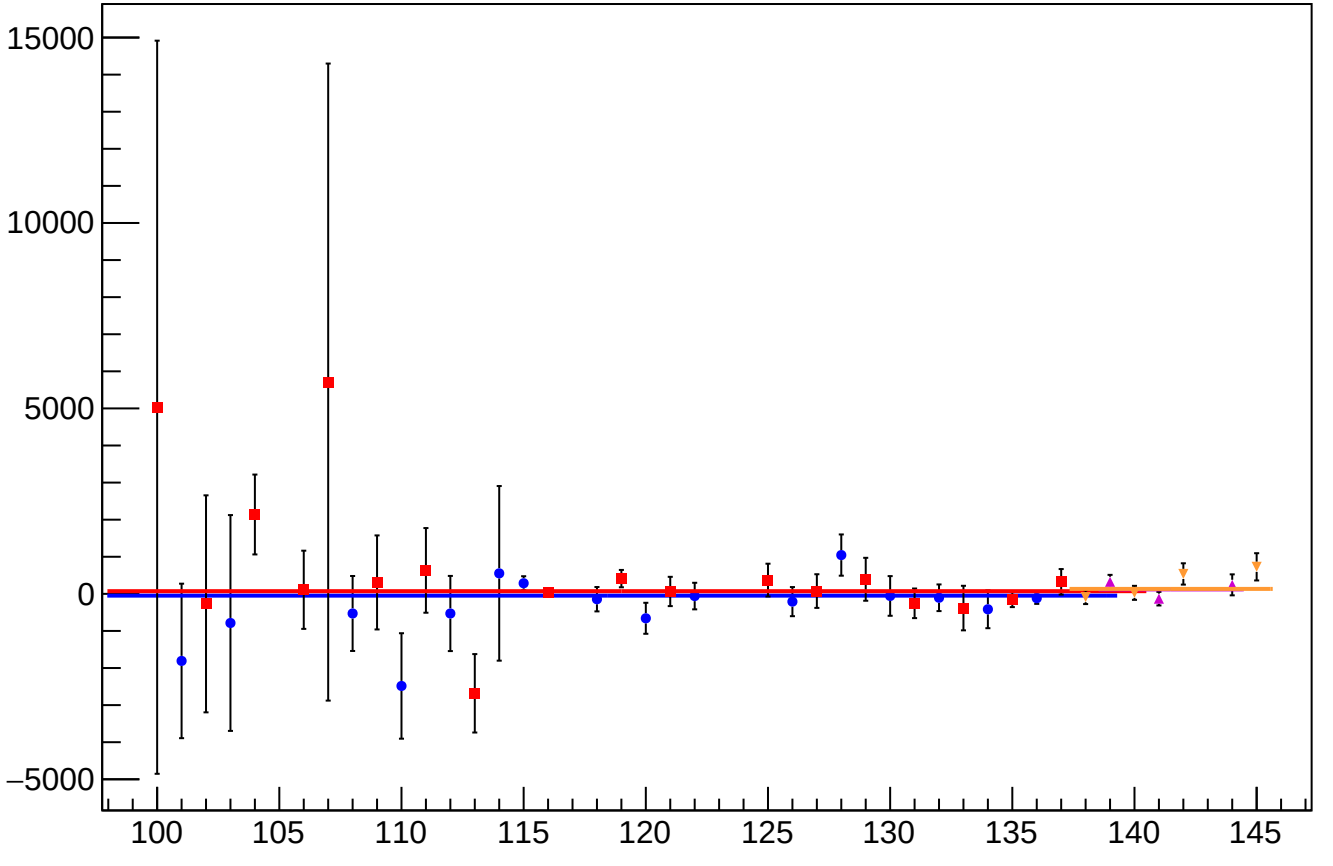
Right: 2315.698+/-0.436 $\chi^2$/NDF: 668158.1/33

In: 2268.410+/-0.517 $\chi^2$/NDF:527121.6/18

Out: 2279.132+/-0.509 $\chi^2$/NDF:171148.0/21

All: 2273.857+/-0.363 $\chi^2$/NDF: 698487.8/40

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: 133.352+/-114.693 $\chi^2$/NDF:6.3/3

Right Out: 72.198+/-82.322 $\chi^2$/NDF: 17.4/17

Left In: 119.220+/-118.610 $\chi^2$/NDF:3.3/2

Left: 126.523+/-82.450 $\chi^2$/NDF: 9.6/6

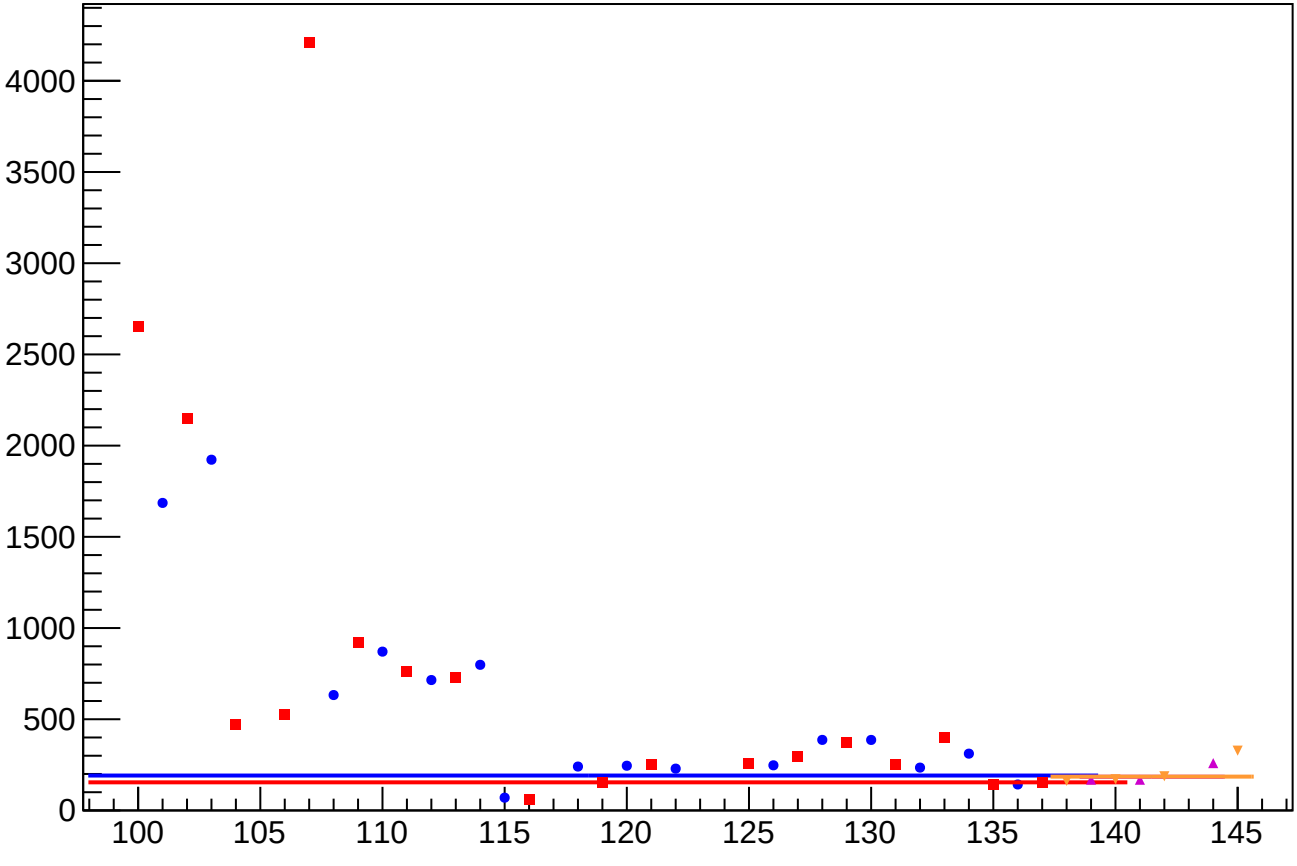
Right: 18.067+/-61.024 $\chi^2$/NDF: 32.7/33

In: 13.916+/-72.159 $\chi^2$/NDF:18.9/18

Out: 92.991+/-66.878 $\chi^2$/NDF:23.9/21

All: 56.452+/-49.051 $\chi^2$/NDF: 43.4/40

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: 185.514+/-0.081 $\chi^2$/NDF:343729.7/3

Right Out: 154.121+/-0.058 $\chi^2$/NDF: 6108665.0/17

Left In: 184.654+/-0.084 $\chi^2$/NDF:169785.1/2

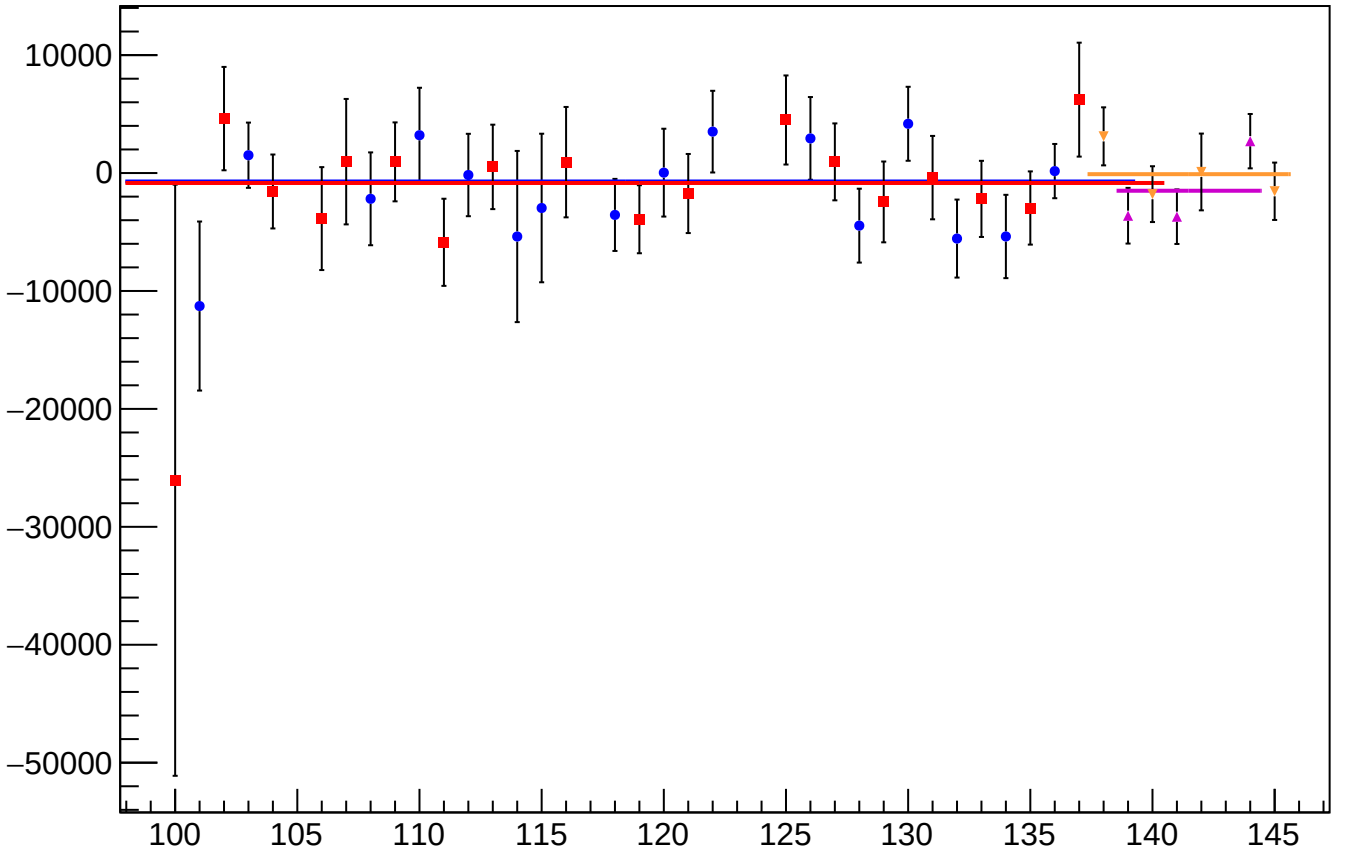
Left: 185.099+/-0.058 $\chi^2$/NDF: 513569.2/6

Right: 170.917+/-0.043 $\chi^2$/NDF: 11357079.8/33

In: 188.906+/-0.051 $\chi^2$/NDF:5237469.7/18

Out: 164.795+/-0.047 $\chi^2$/NDF:6551287.8/21

All: 175.936+/-0.035 $\chi^2$/NDF: 11908876.8/40




Right In: -717.136+/-873.539 $\chi^2$/NDF: 15.8/15

Left Out: -96.028+/-1283.309 $\chi^2$/NDF:2.6/3

Right Out: -842.157+/-873.586 $\chi^2$/NDF: 12.2/17

Left In: -1501.165+/-1342.863 $\chi^2$/NDF:5.0/2

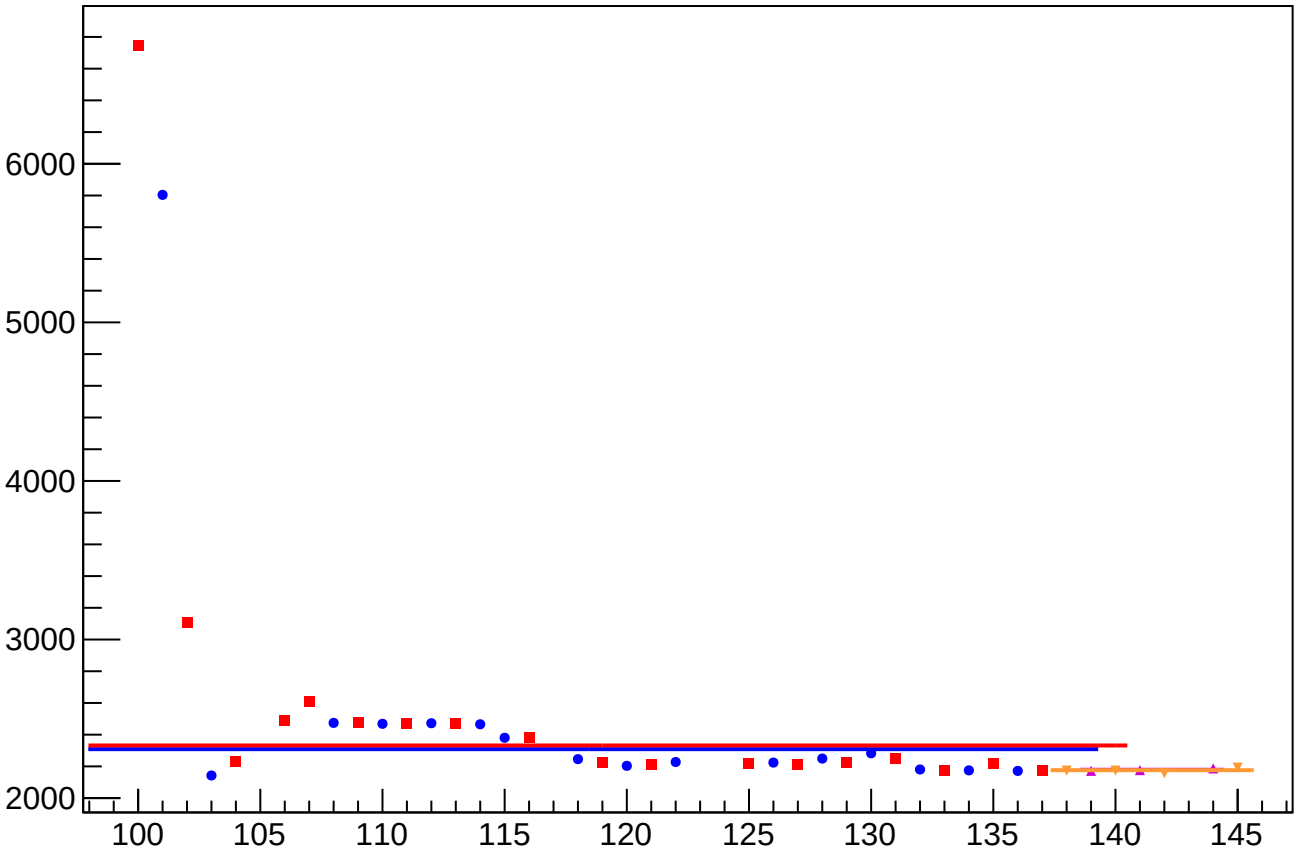
Left: -766.748+/-927.776 $\chi^2$/NDF: 8.2/6

Right: -779.643+/-617.702 $\chi^2$/NDF: 28.0/33

In: -950.257+/-732.244 $\chi^2$/NDF:21.1/18

Out: -605.891+/-722.147 $\chi^2$/NDF:15.0/21

All: -775.683+/-514.168 $\chi^2$/NDF: 36.2/40




Right In: 2308.739+/-0.618 $\chi^2$/NDF: 513742.2/15

Left Out: 2176.033+/-0.907 $\chi^2$/NDF:167.5/3

Right Out: 2331.849+/-0.618 $\chi^2$/NDF: 167321.7/17

Left In: 2178.681+/-0.950 $\chi^2$/NDF:45.5/2

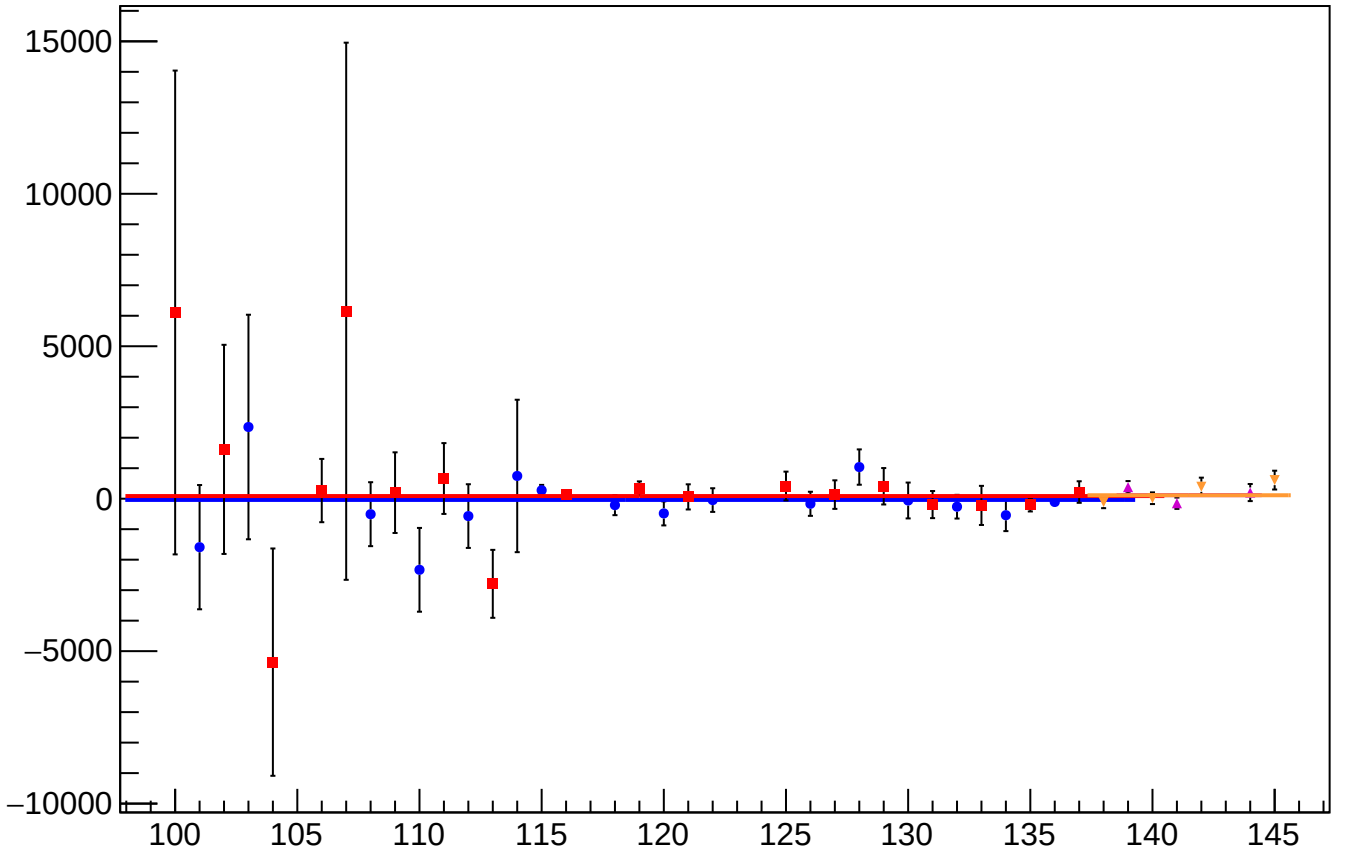
Left: 2177.297+/-0.656 $\chi^2$/NDF: 217.1/6

Right: 2320.294+/-0.437 $\chi^2$/NDF: 681763.7/33

In: 2270.068+/-0.518 $\chi^2$/NDF:526969.9/18

Out: 2282.509+/-0.511 $\chi^2$/NDF:187637.2/21

All: 2276.375+/-0.364 $\chi^2$/NDF: 714899.8/40




Right In: -40.119+/-92.409 $\chi^2$/NDF: 14.1/15

Left Out: 112.966+/-116.128 $\chi^2$/NDF:5.0/3

Right Out: 86.379+/-86.088 $\chi^2$/NDF: 15.0/17

Left In: 117.234+/-122.201 $\chi^2$/NDF:3.9/2

Left: 114.991+/-84.180 $\chi^2$/NDF: 8.9/6

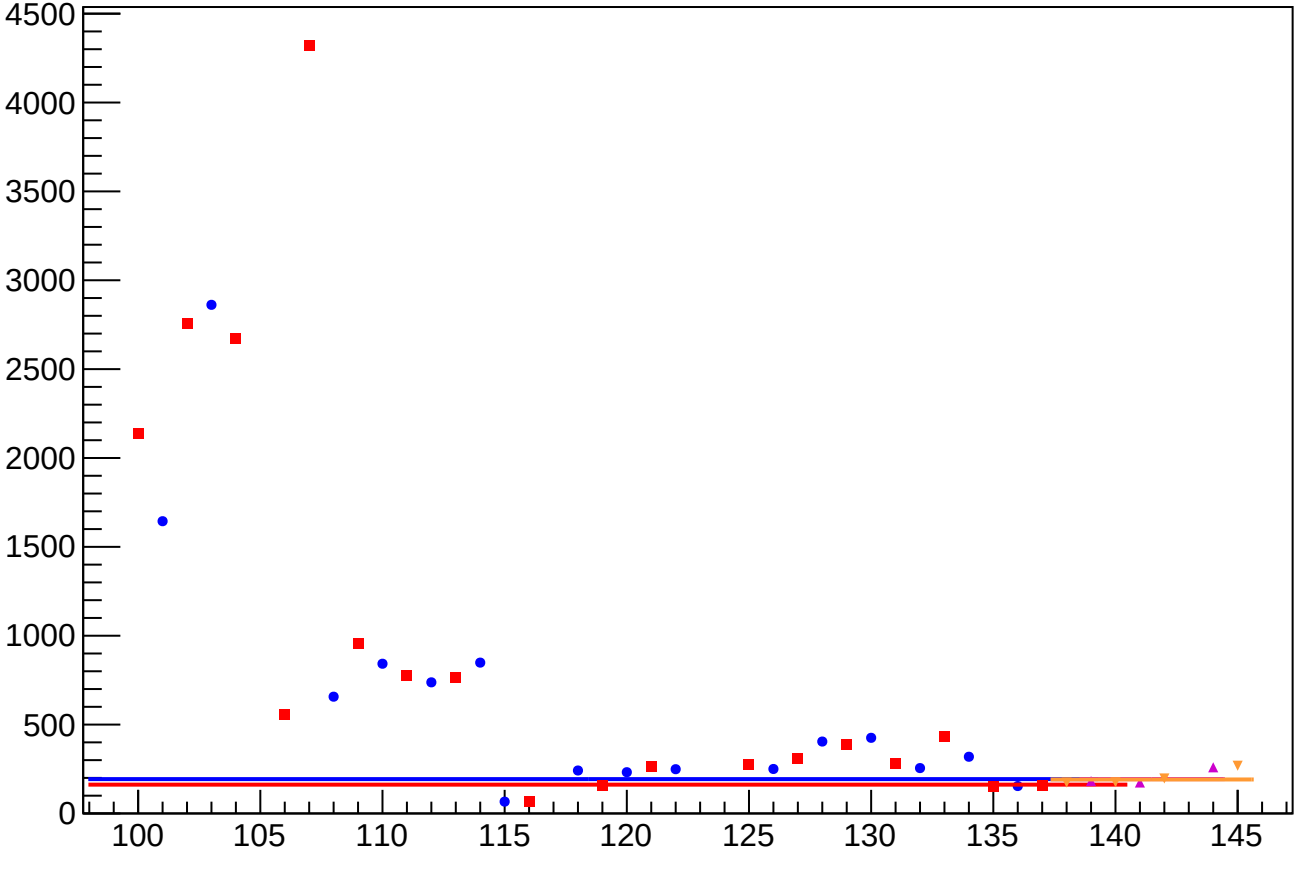
Right: 27.604+/-62.990 $\chi^2$/NDF: 30.0/33

In: 17.127+/-73.707 $\chi^2$/NDF:19.0/18

Out: 95.808+/-69.158 $\chi^2$/NDF:20.0/21

All: 58.970+/-50.433 $\chi^2$/NDF: 39.6/40

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: 191.207+/-0.082 $\chi^2$/NDF:155525.5/3

Right Out: 162.114+/-0.061 $\chi^2$/NDF: 7070489.1/17

Left In: 193.435+/-0.086 $\chi^2$/NDF:139632.8/2

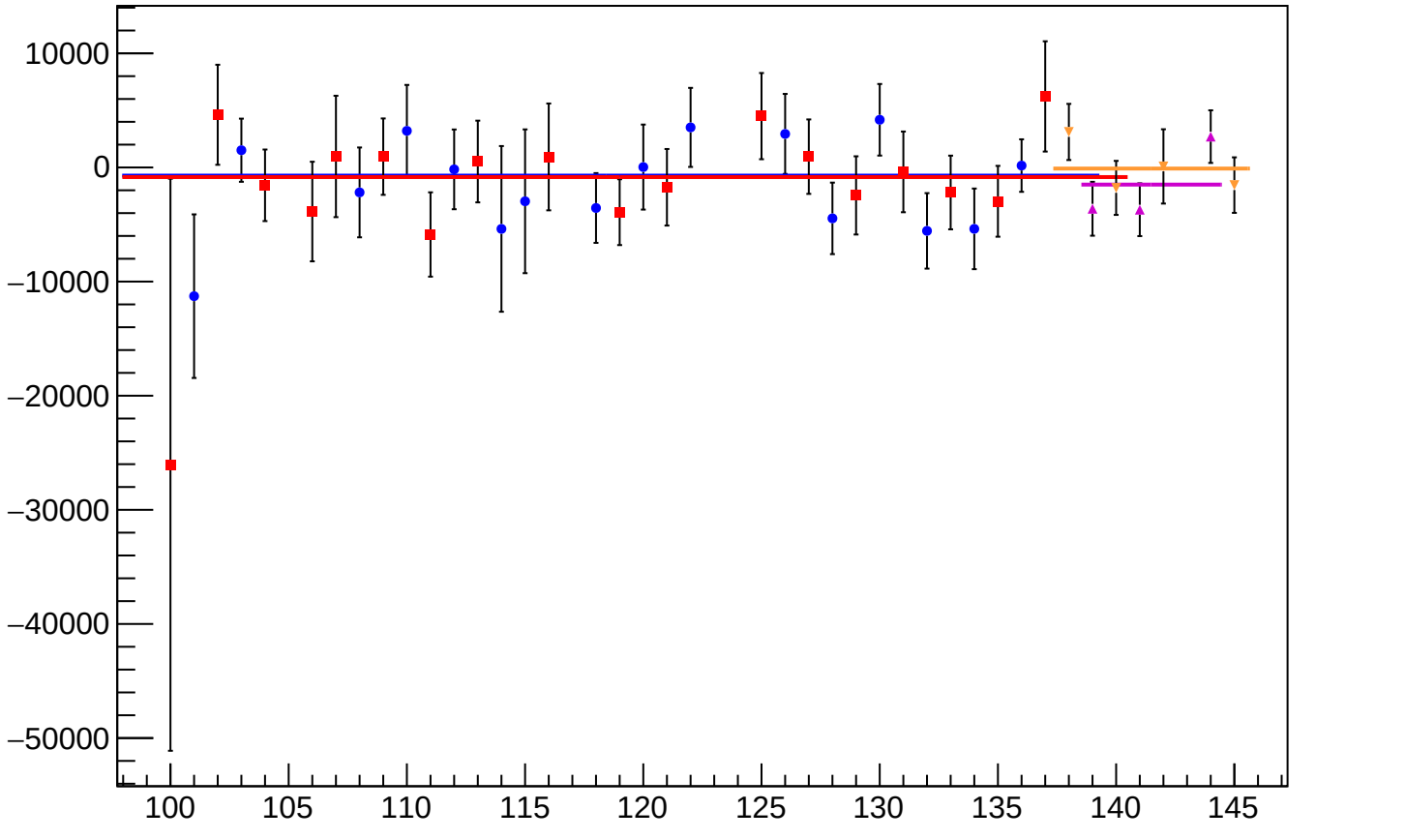
Left: 192.264+/-0.060 $\chi^2$/NDF: 295507.5/6

Right: 176.583+/-0.045 $\chi^2$/NDF: 12809933.8/33

In: 193.321+/-0.052 $\chi^2$/NDF:5757482.5/18

Out: 172.432+/-0.049 $\chi^2$/NDF:7307023.5/21

All: 182.212+/-0.036 $\chi^2$/NDF: 13149932.0/40




Right In: -717.137+/-873.539 $\chi^2$/NDF: 15.8/15

Left Out: -96.029+/-1283.309 $\chi^2$/NDF:2.6/3

Right Out: -842.159+/-873.586 $\chi^2$/NDF: 12.2/17

Left In: -1501.163+/-1342.863 $\chi^2$/NDF:5.0/2

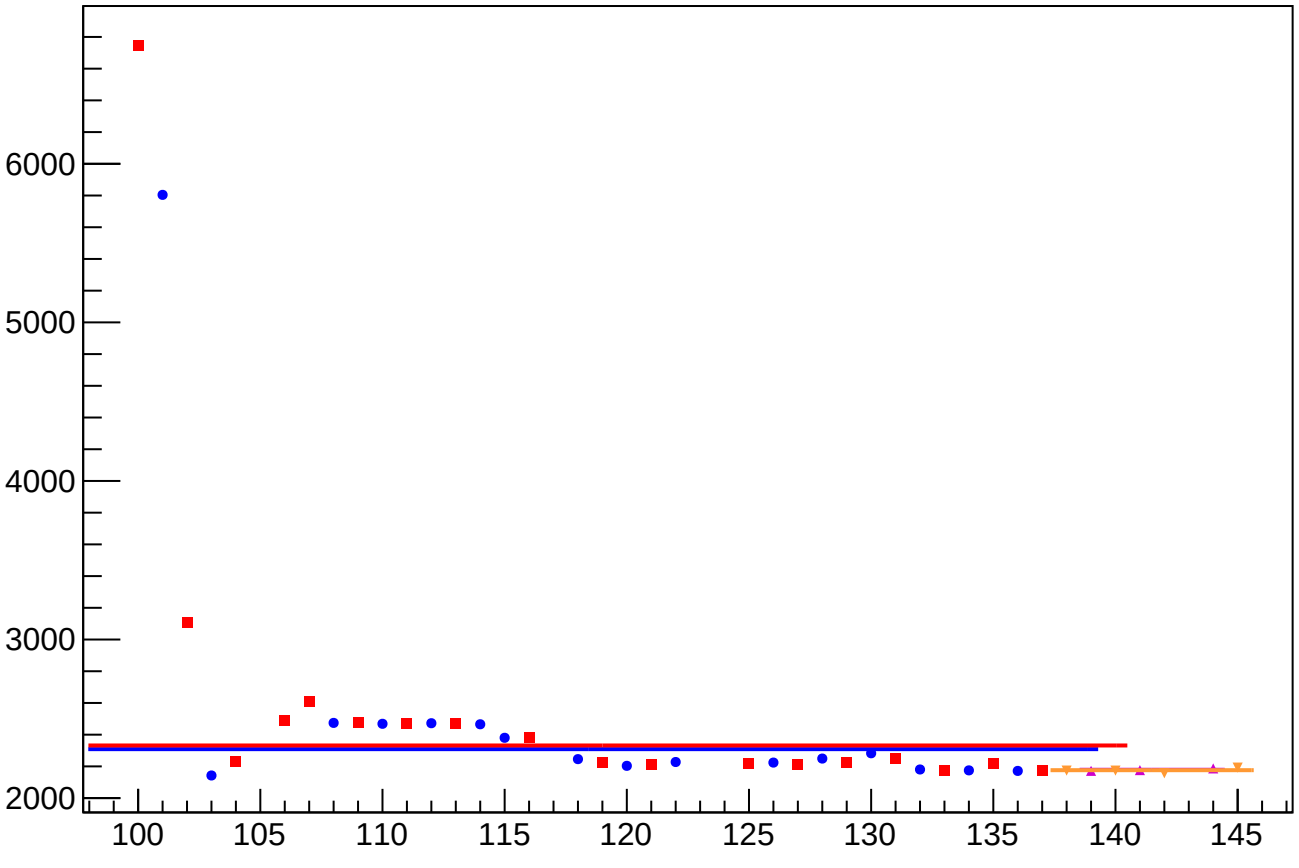
Left: -766.748+/-927.776 $\chi^2$/NDF: 8.2/6

Right: -779.645+/-617.702 $\chi^2$/NDF: 28.0/33

In: -950.257+/-732.244 $\chi^2$/NDF:21.1/18

Out: -605.892+/-722.147 $\chi^2$/NDF:15.0/21

All: -775.684+/-514.168 $\chi^2$/NDF: 36.2/40




Right In: 2308.739+/-0.618 $\chi^2$/NDF: 513742.2/15

Left Out: 2176.033+/-0.907 $\chi^2$/NDF:167.5/3

Right Out: 2331.849+/-0.618 $\chi^2$/NDF: 167321.6/17

Left In: 2178.681+/-0.950 $\chi^2$/NDF:45.5/2

Left: 2177.297+/-0.656 $\chi^2$/NDF: 217.1/6

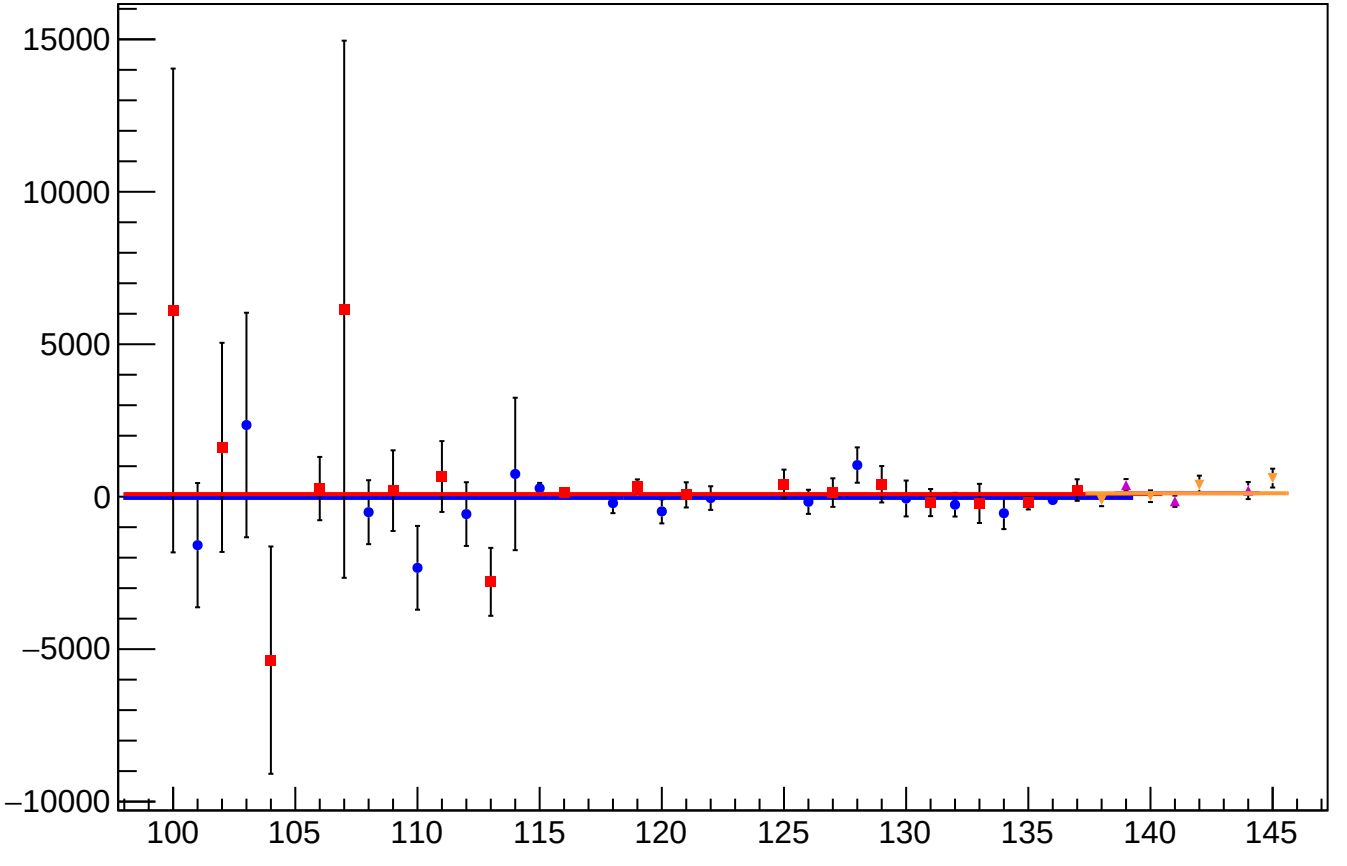
Right: 2320.294+/-0.437 $\chi^2$/NDF: 681763.7/33

In: 2270.068+/-0.518 $\chi^2$/NDF:526969.9/18

Out: 2282.509+/-0.511 $\chi^2$/NDF:187637.1/21

All: 2276.375+/-0.364 $\chi^2$/NDF: 714899.7/40

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: 112.969+/-116.129 $\chi^2$/NDF:5.0/3

Right Out: 86.380+/-86.087 $\chi^2$/NDF: 15.0/17

Left In: 117.231+/-122.202 $\chi^2$/NDF:3.9/2

Left: 114.991+/-84.181 $\chi^2$/NDF: 8.9/6

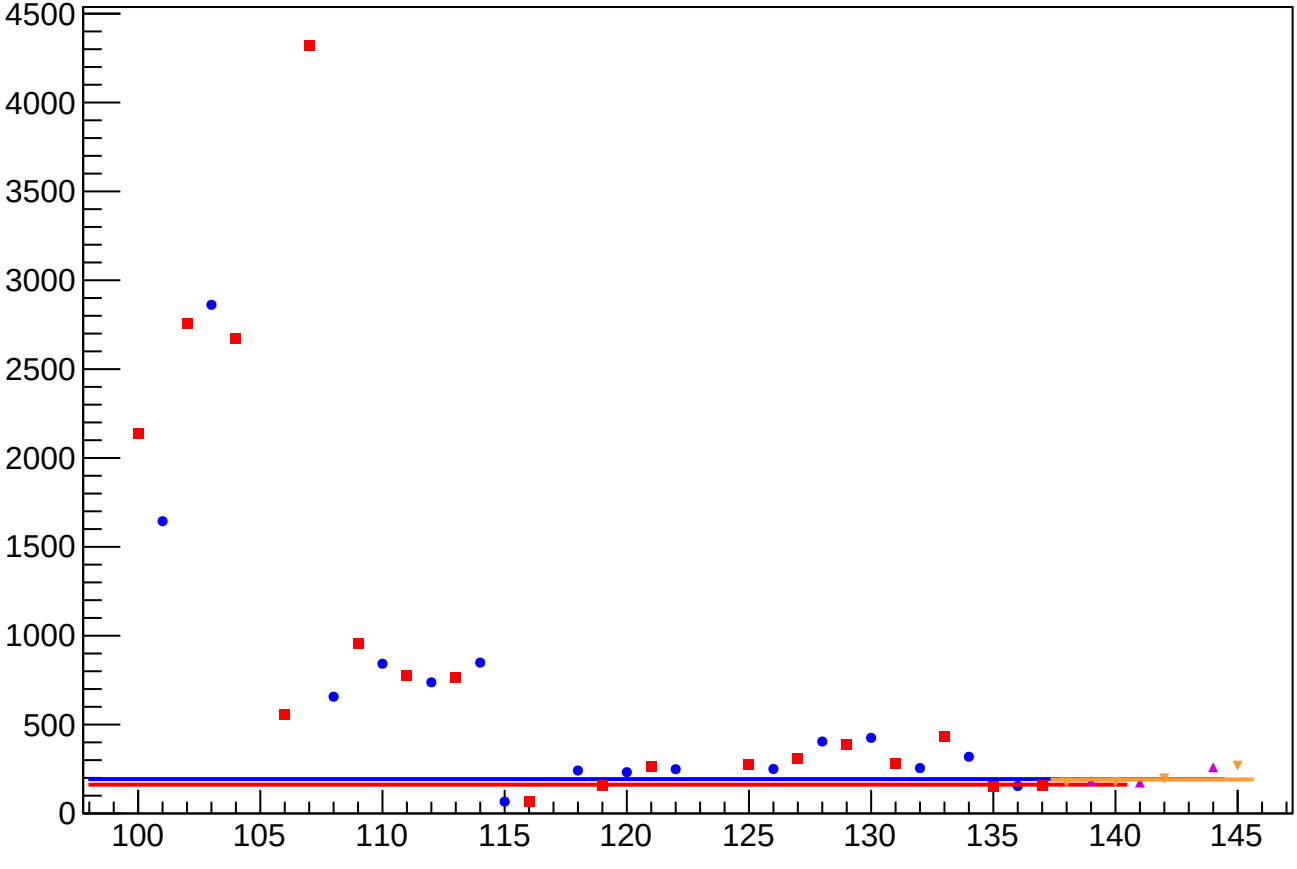
Right: 27.606+/-62.989 $\chi^2$/NDF: 30.0/33

In: 17.127+/-73.707 $\chi^2$/NDF:19.0/18

Out: 95.810+/-69.157 $\chi^2$/NDF:20.0/21

All: 58.971+/-50.433 $\chi^2$/NDF: 39.6/40

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: 191.209+/-0.082 $\chi^2$/NDF:155516.1/3

Right Out: 162.112+/-0.061 $\chi^2$/NDF: 7070547.9/17

Left In: 193.436+/-0.086 $\chi^2$/NDF:139626.5/2

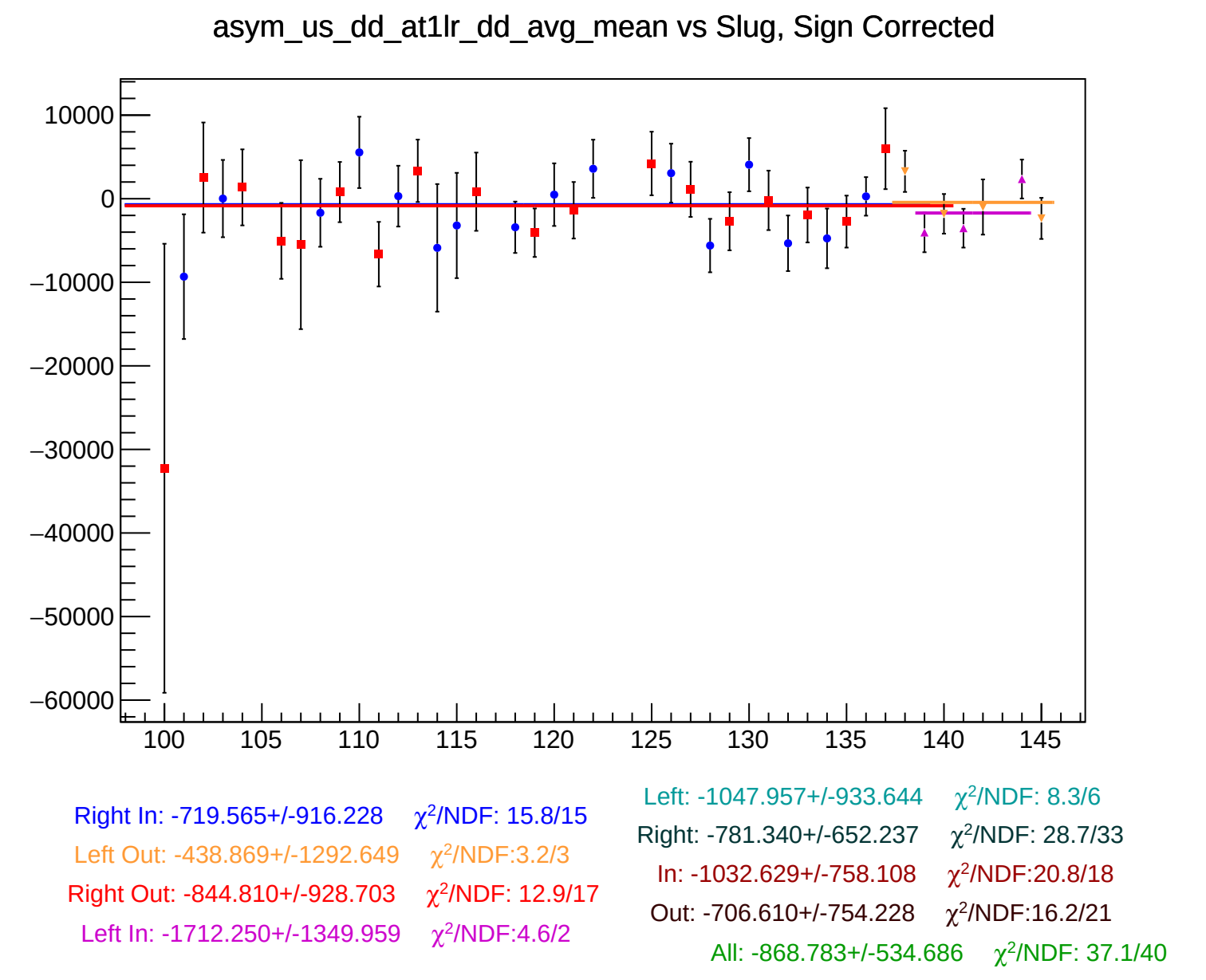
Left: 192.266+/-0.060 $\chi^2$/NDF: 295491.7/6

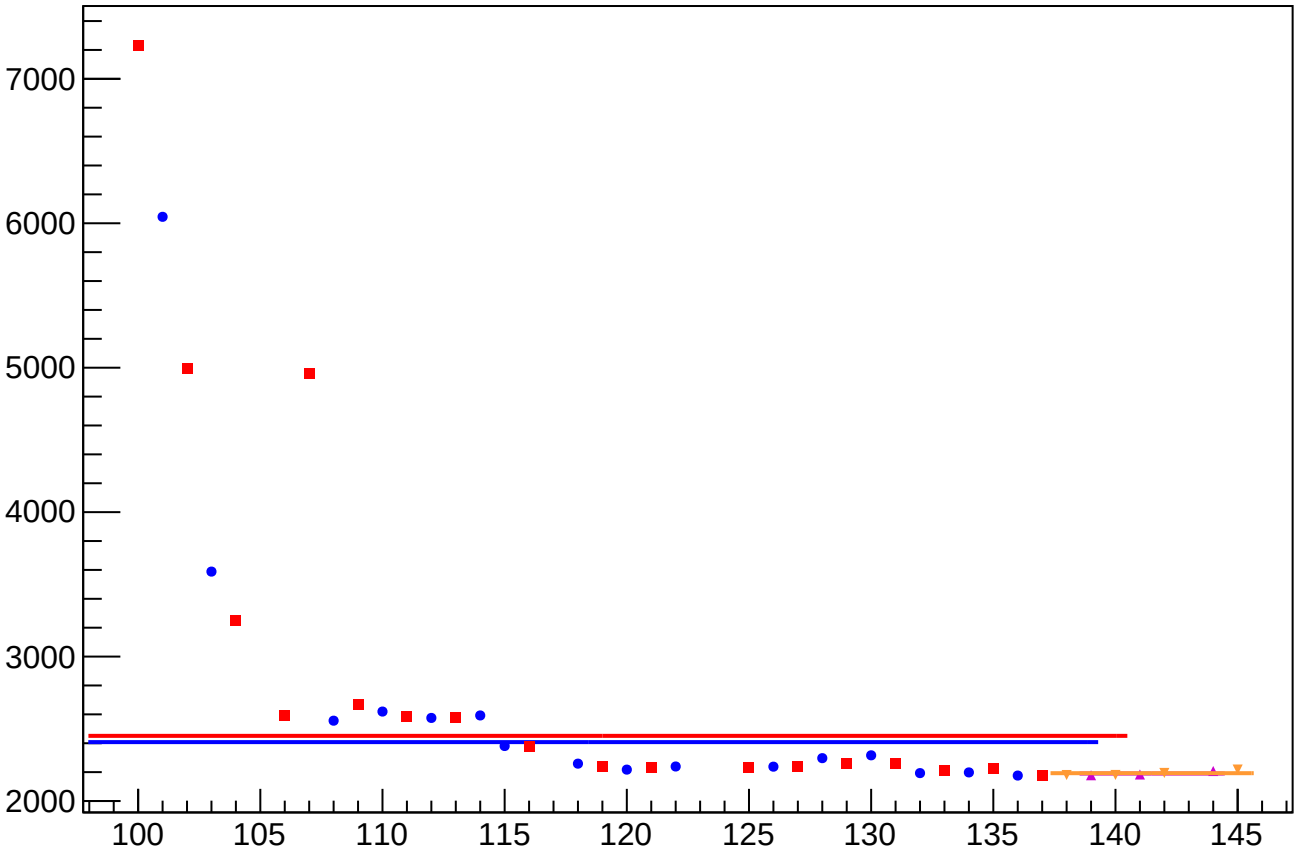
Right: 176.581+/-0.045 $\chi^2$/NDF: 12810031.9/33

In: 193.320+/-0.052 $\chi^2$/NDF:5757513.5/18

Out: 172.431+/-0.049 $\chi^2$/NDF:7307092.3/21

All: 182.211+/-0.036 $\chi^2$/NDF: 13150033.8/40


asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
100
105
110
115
120
125
130
135
140
145
Right In: -719.565+/-916.228 χ²/NDF: 15.8/15
Left Out: -438.869+/-1292.649 χ²/NDF:3.2/3
Right Out: -844.810+/-928.703 χ²/NDF: 12.9/17
Left In: -1712.250+/-1349.959 χ²/NDF:4.6/2
Left: -1047.957+/-933.644 χ²/NDF: 8.3/6
Right: -781.340+/-652.237 χ²/NDF: 28.7/33
In: -1032.629+/-758.108 χ²/NDF:20.8/18
Out: -706.610+/-754.228 χ²/NDF:16.2/21
All: -868.783+/-534.686 χ²/NDF: 37.1/40




Right In: 2407.795+/-0.648 $\chi^2$/NDF: 676891.3/15

Left Out: 2192.722+/-0.914 $\chi^2$/NDF:317.7/3

Right Out: 2451.189+/-0.657 $\chi^2$/NDF: 633600.1/17

Left In: 2190.153+/-0.955 $\chi^2$/NDF:177.9/2

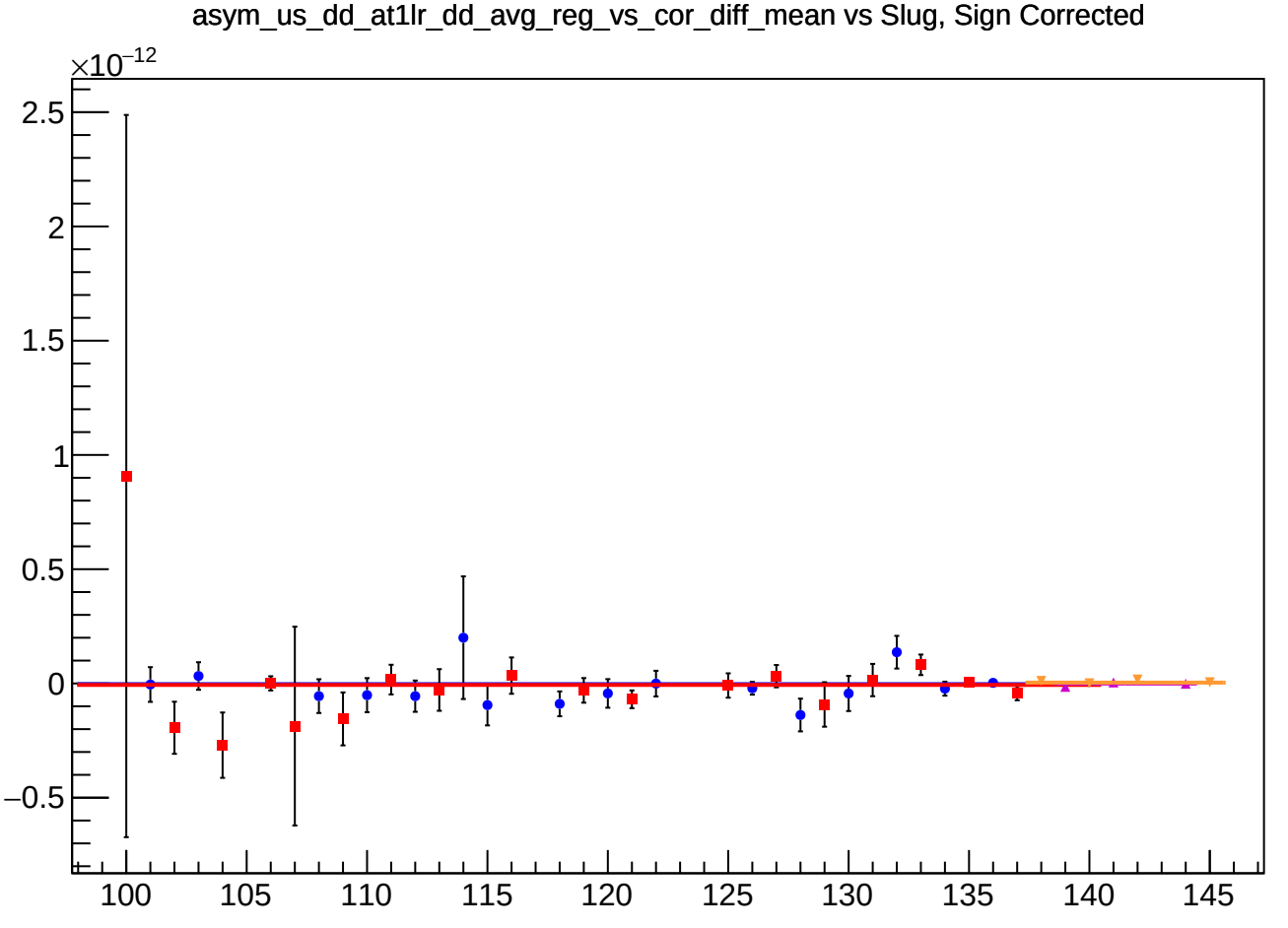
Left: 2191.493+/-0.660 $\chi^2$/NDF: 499.3/6

Right: 2429.198+/-0.461 $\chi^2$/NDF: 1312704.2/33

In: 2339.157+/-0.536 $\chi^2$/NDF:712659.2/18

Out: 2363.196+/-0.533 $\chi^2$/NDF:686656.9/21

All: 2351.238+/-0.378 $\chi^2$/NDF: 1400326.8/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.2/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.9/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.0/2

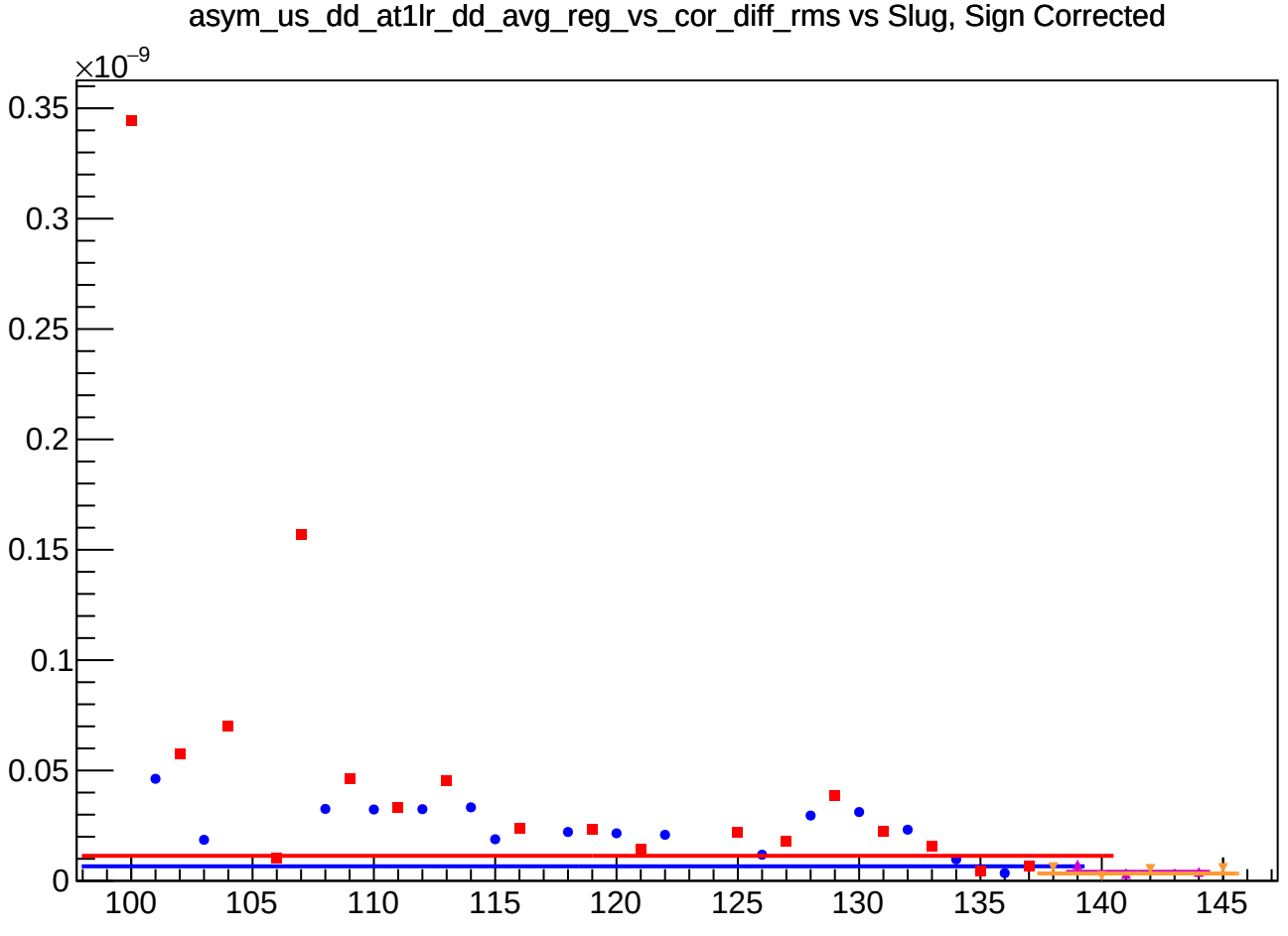
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.7/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:17.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.0/21

All: 0.000+/-0.000 $\chi^2$/NDF: 40.4/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2856979.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:508813.7/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2697712.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:200544.4/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 747842.7/6

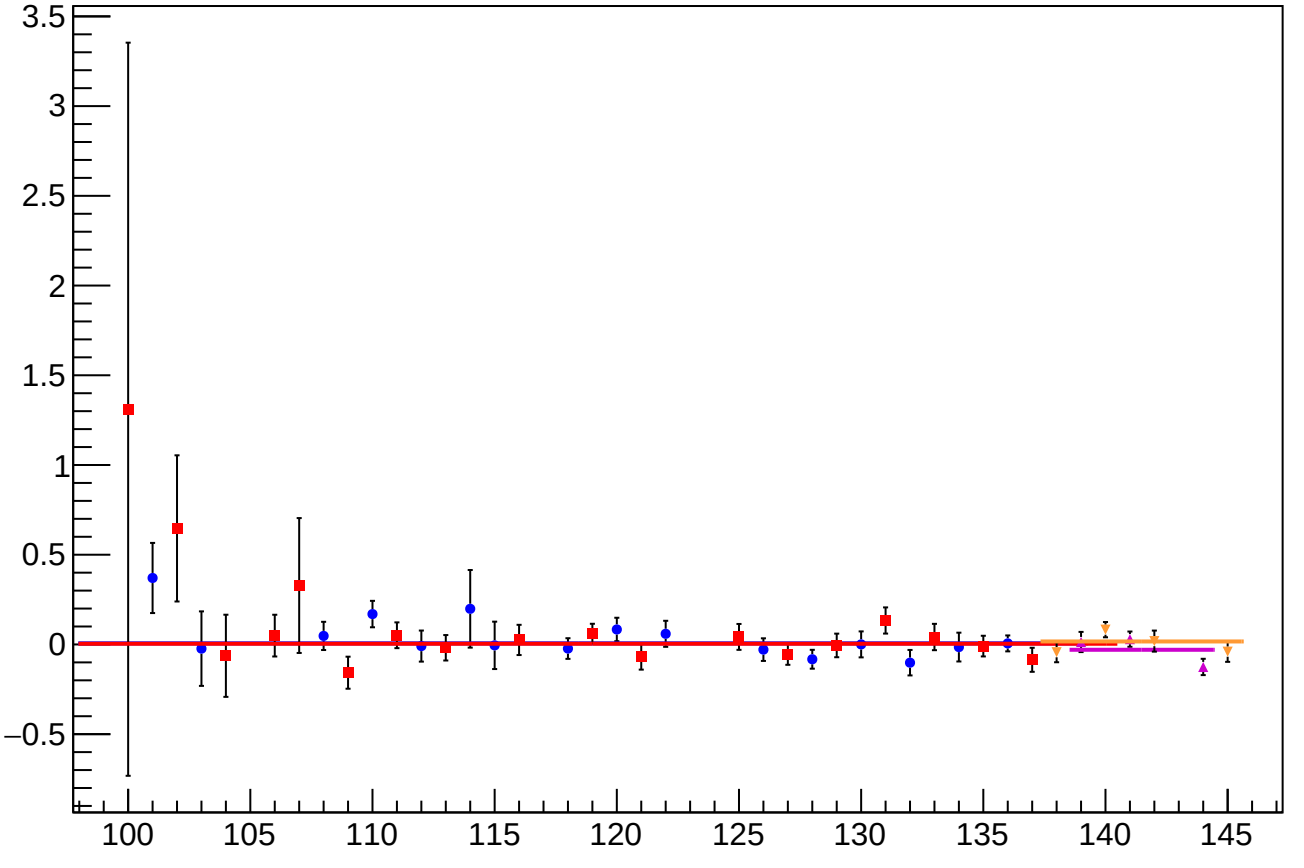
Right: 0.000+/-0.000 $\chi^2$/NDF: 5888629.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:3267679.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4404178.6/21

All: 0.000+/-0.000 $\chi^2$/NDF: 7715117.1/40

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: 0.017+/-0.026 $\chi^2$/NDF:4.5/3

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.030+/-0.027 $\chi^2$/NDF:7.0/2

Left: -0.006+/-0.019 $\chi^2$/NDF: 13.0/6

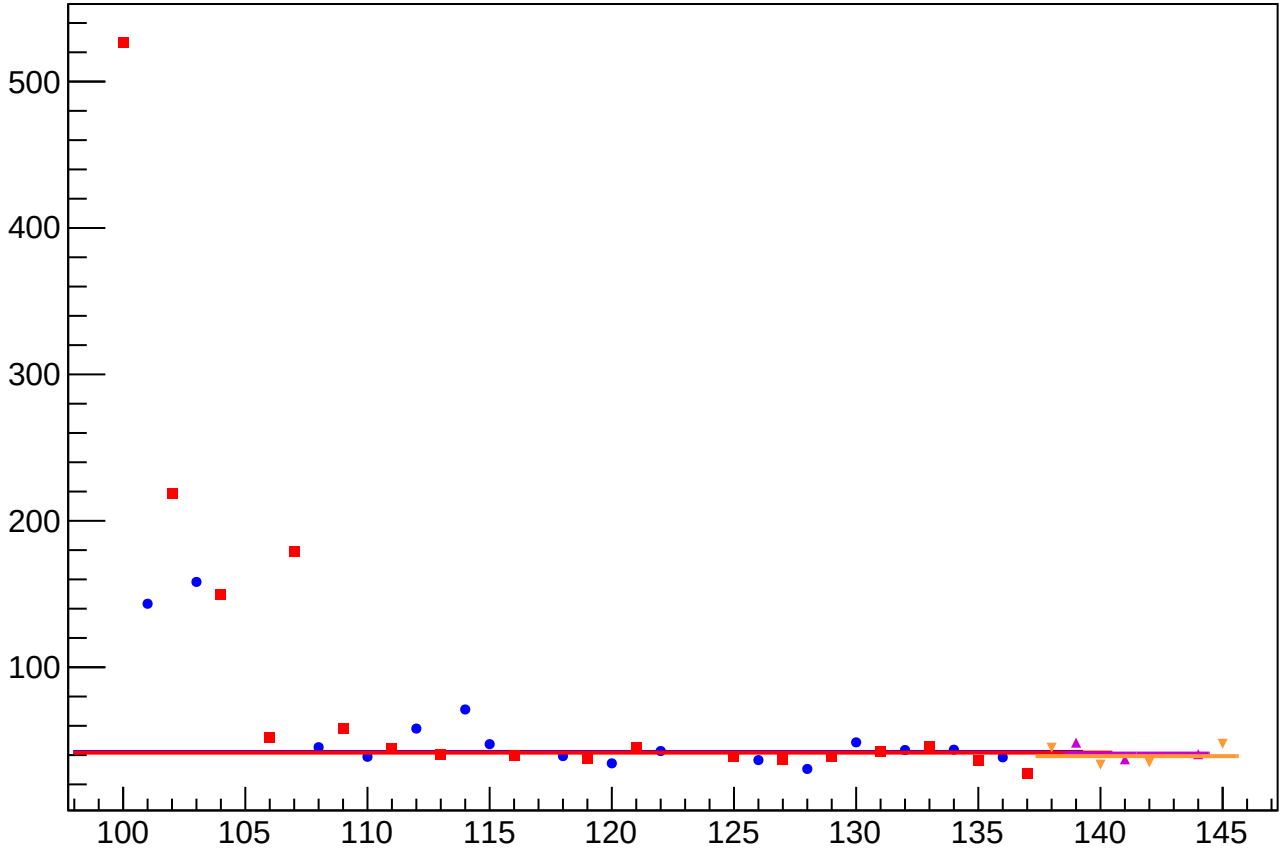
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.005+/-0.015 $\chi^2$/NDF:25.4/18

Out: 0.008+/-0.015 $\chi^2$/NDF:21.0/21

All: 0.002+/-0.011 $\chi^2$/NDF: 46.7/40

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: 39.288+/-0.018 $\chi^2$/NDF:113351.5/3

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441204.7/17

Left In: 41.044+/-0.019 $\chi^2$/NDF:52147.3/2

Left: 40.129+/-0.013 $\chi^2$/NDF: 169847.6/6

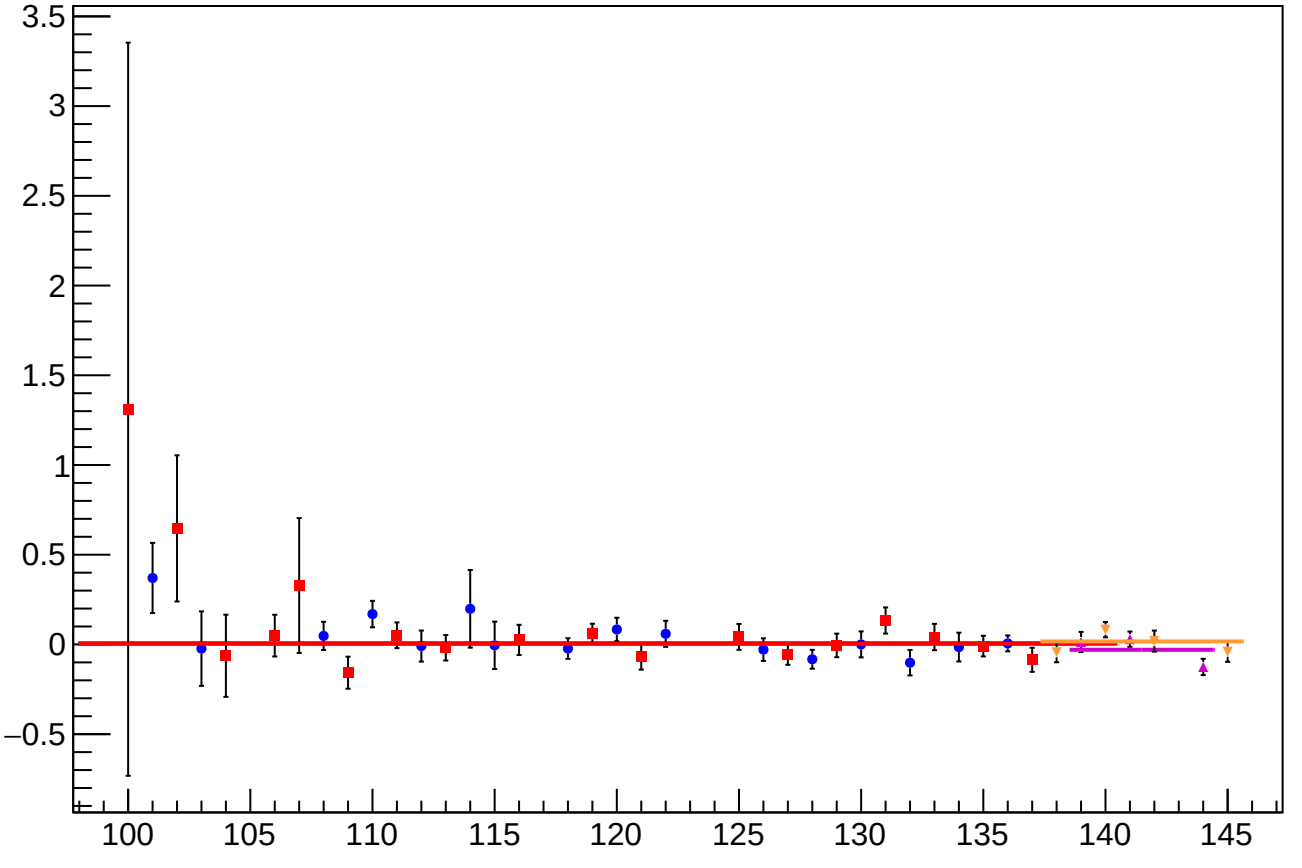
Right: 41.933+/-0.009 $\chi^2$/NDF: 2896244.2/33

In: 41.817+/-0.011 $\chi^2$/NDF:1508872.8/18

Out: 40.881+/-0.011 $\chi^2$/NDF:1565835.4/21

All: 41.348+/-0.008 $\chi^2$/NDF: 3078523.6/40

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: 0.017+/-0.026 $\chi^2$/NDF:4.5/3

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.030+/-0.027 $\chi^2$/NDF:7.0/2

Left: -0.006+/-0.019 $\chi^2$/NDF: 13.0/6

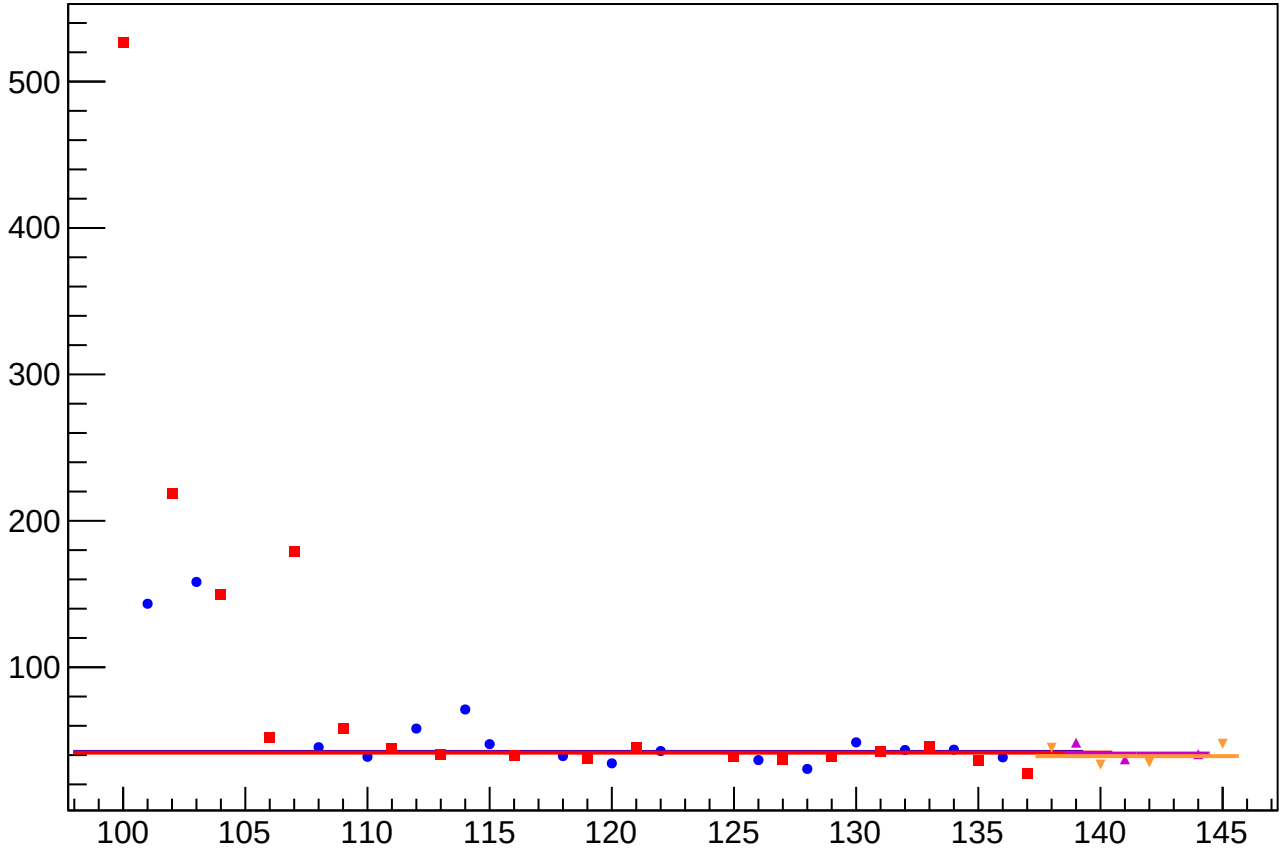
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.005+/-0.015 $\chi^2$/NDF:25.4/18

Out: 0.008+/-0.015 $\chi^2$/NDF:21.0/21

All: 0.002+/-0.011 $\chi^2$/NDF: 46.7/40

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: 39.288+/-0.018 $\chi^2$/NDF:113351.5/3

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441204.7/17

Left In: 41.044+/-0.019 $\chi^2$/NDF:52147.3/2

Left: 40.129+/-0.013 $\chi^2$/NDF: 169847.6/6

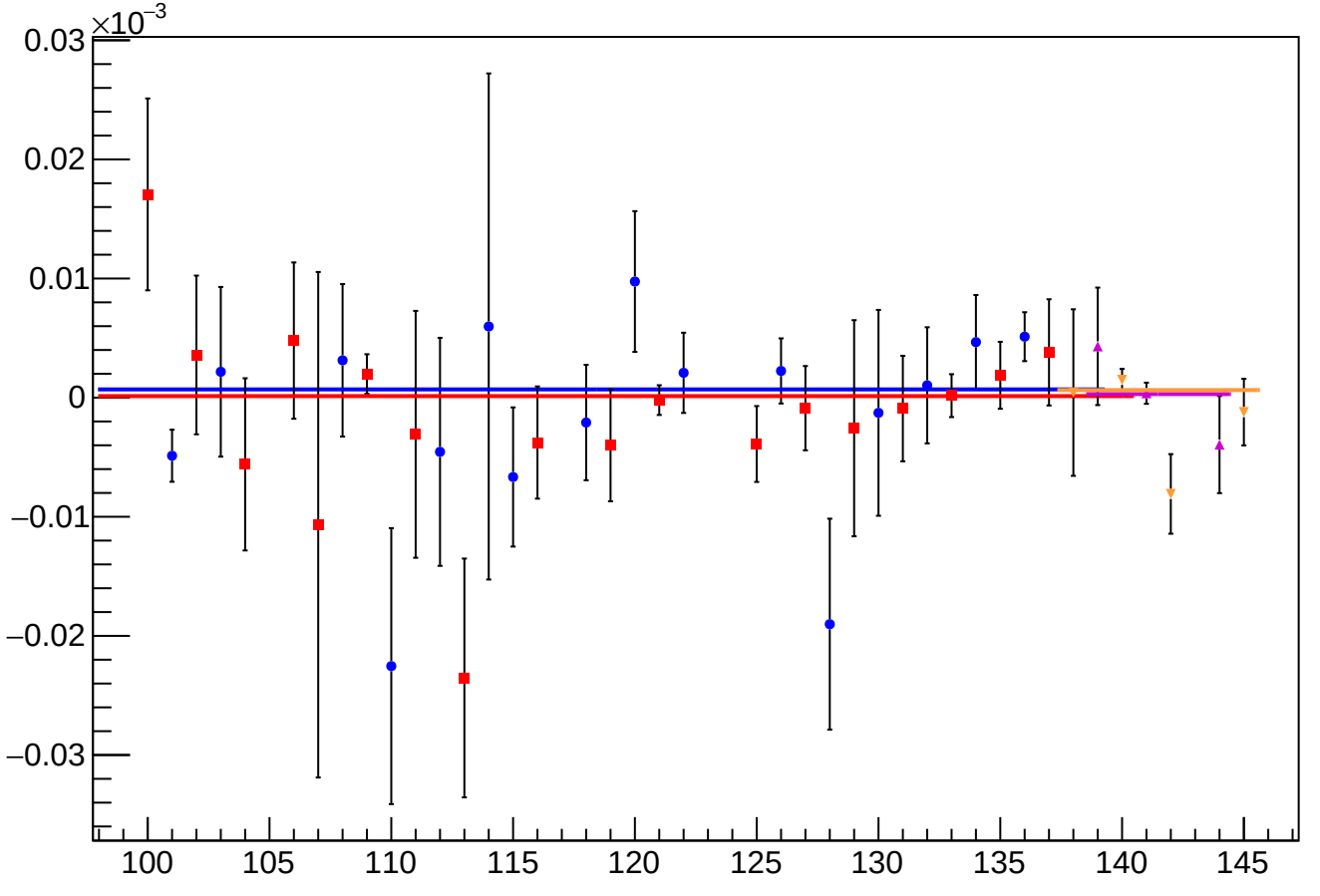
Right: 41.933+/-0.009 $\chi^2$/NDF: 2896244.2/33

In: 41.817+/-0.011 $\chi^2$/NDF:1508872.8/18

Out: 40.881+/-0.011 $\chi^2$/NDF:1565835.4/21

All: 41.348+/-0.008 $\chi^2$/NDF: 3078523.6/40

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:8.1/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.7/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 10.0/6

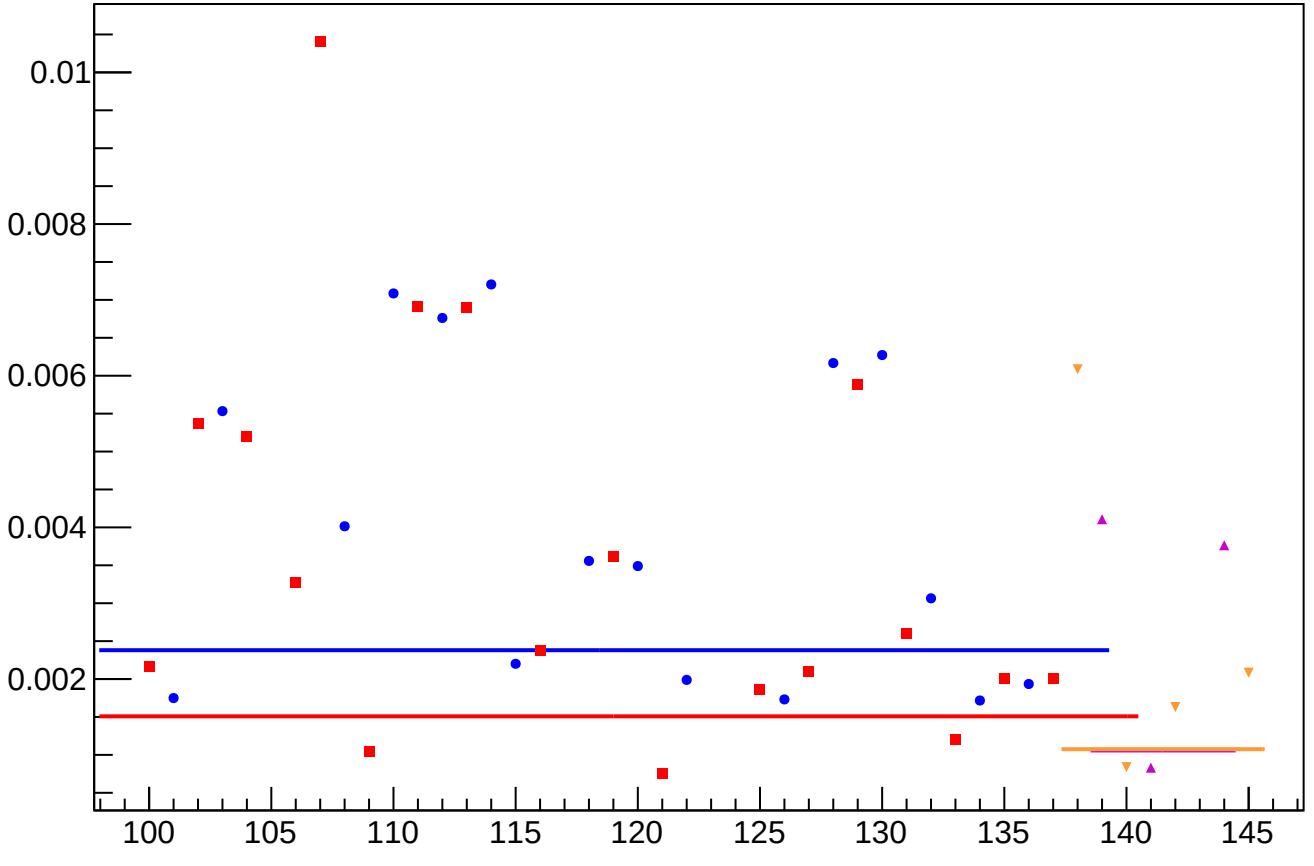
Right: 0.000+/-0.000 $\chi^2$/NDF: 44.1/33

In: 0.000+/-0.000 $\chi^2$/NDF:28.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:25.8/21

All: 0.000+/-0.000 $\chi^2$/NDF: 54.1/40

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:1474896.0/3

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 5001667.0/17

Left In: 0.001+/-0.000 $\chi^2$/NDF:1775828.2/2

Left: 0.001+/-0.000 $\chi^2$/NDF: 3251116.0/6

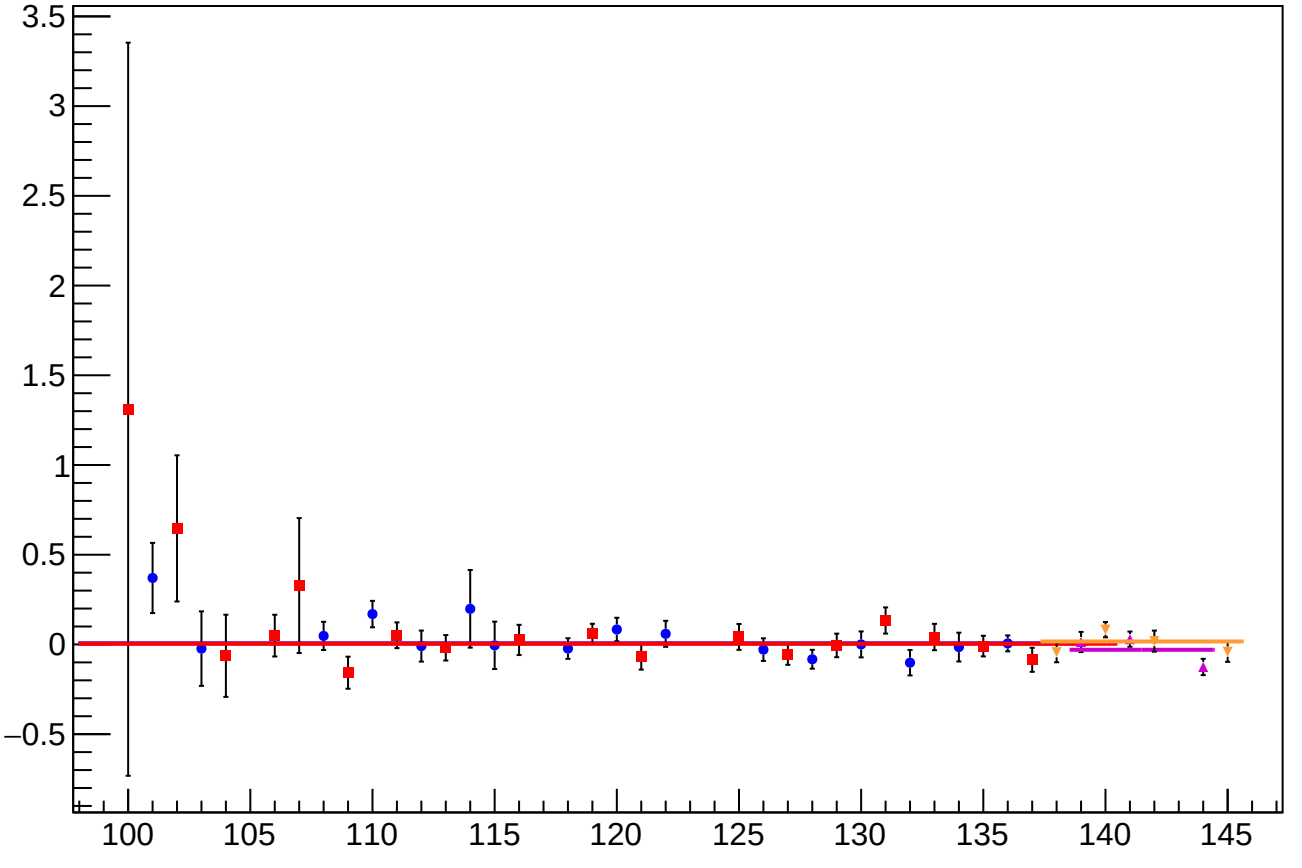
Right: 0.002+/-0.000 $\chi^2$/NDF: 8812145.3/33

In: 0.002+/-0.000 $\chi^2$/NDF:6588971.4/18

Out: 0.001+/-0.000 $\chi^2$/NDF:6784133.8/21

All: 0.001+/-0.000 $\chi^2$/NDF: 13590343.8/40

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: 0.017+/-0.026 $\chi^2$/NDF:4.5/3

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.030+/-0.027 $\chi^2$/NDF:7.0/2

Left: -0.006+/-0.019 $\chi^2$/NDF: 13.0/6

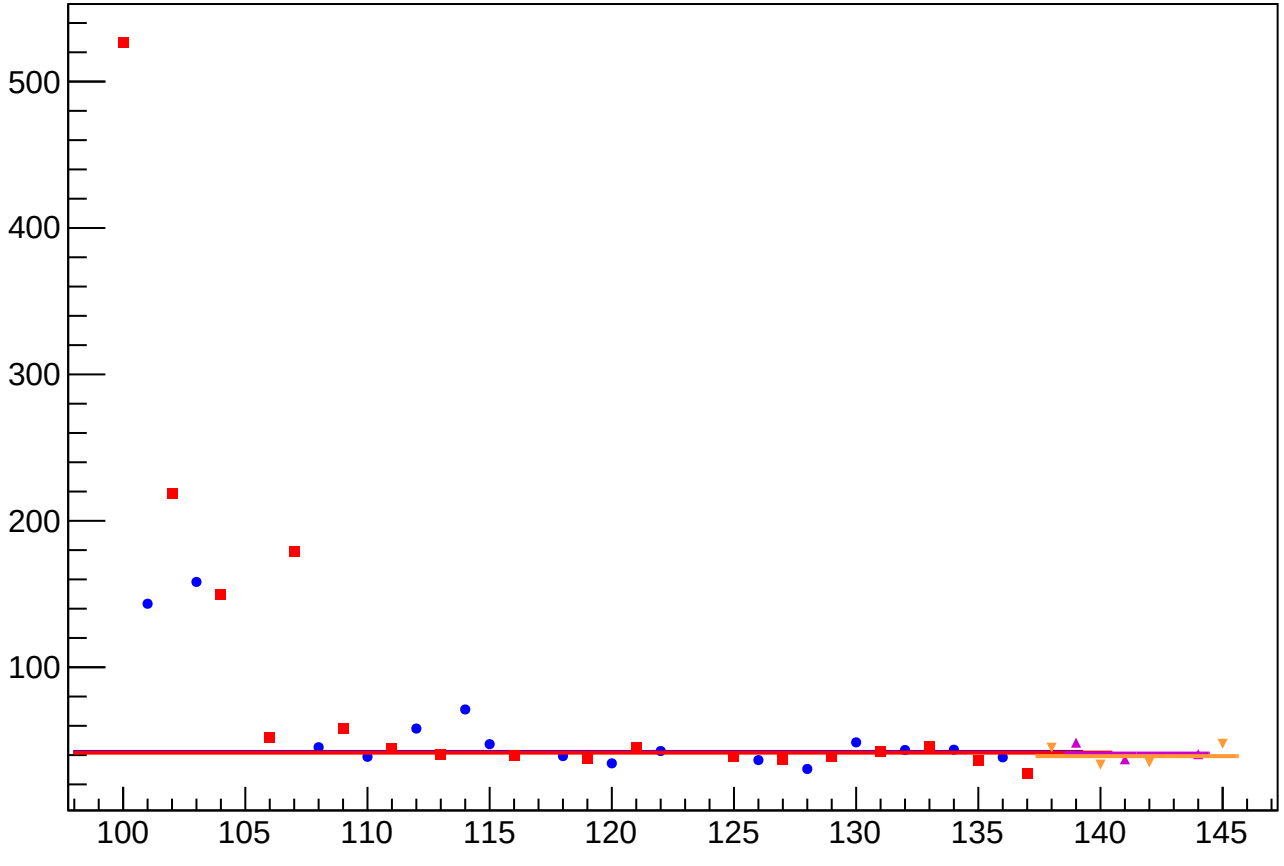
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.005+/-0.015 $\chi^2$/NDF:25.4/18

Out: 0.008+/-0.015 $\chi^2$/NDF:21.0/21

All: 0.002+/-0.011 $\chi^2$/NDF: 46.7/40

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: 39.289+/-0.018 $\chi^2$/NDF:113326.7/3

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441185.4/17

Left In: 41.044+/-0.019 $\chi^2$/NDF:52153.7/2

Left: 40.130+/-0.013 $\chi^2$/NDF: 169829.4/6

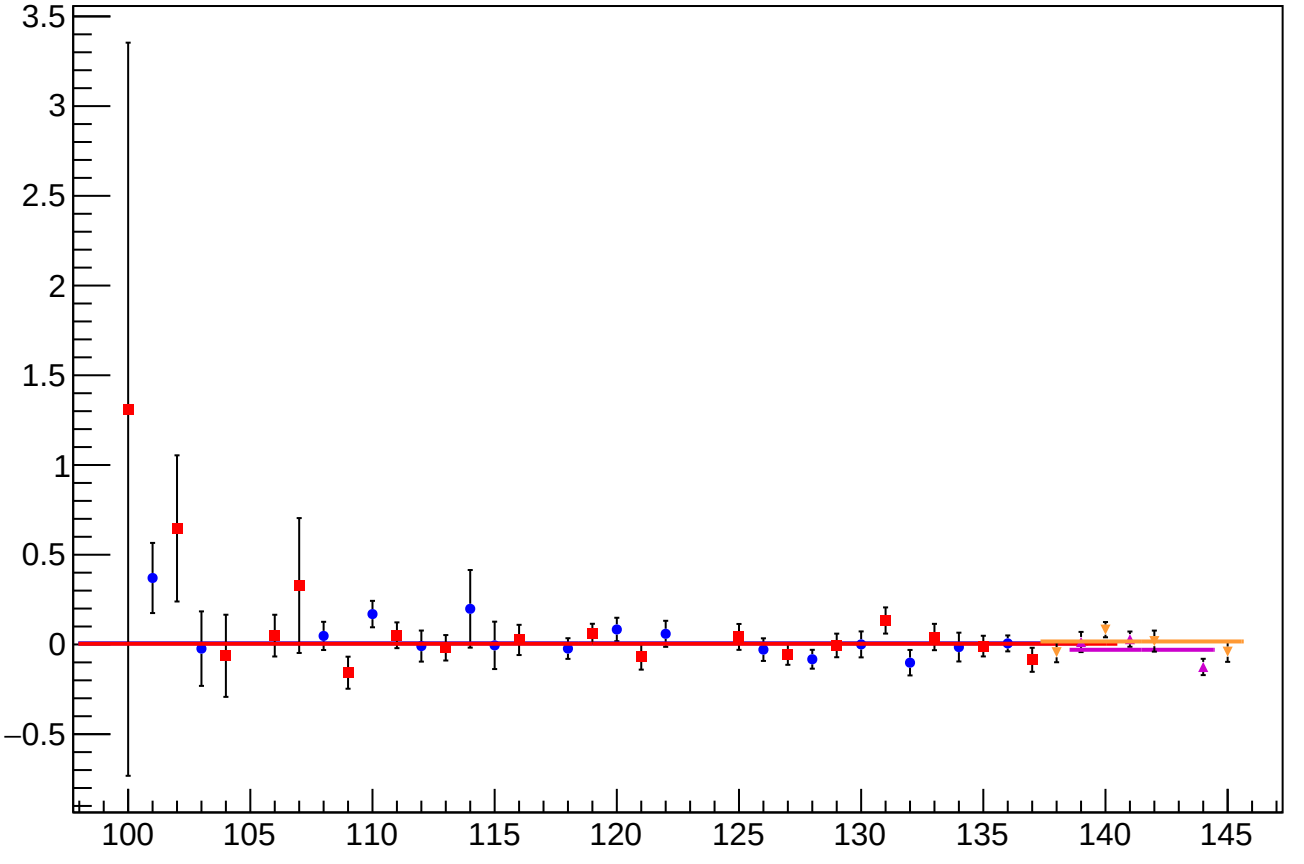
Right: 41.932+/-0.009 $\chi^2$/NDF: 2896430.8/33

In: 41.815+/-0.011 $\chi^2$/NDF:1509081.3/18

Out: 40.882+/-0.011 $\chi^2$/NDF:1565792.3/21

All: 41.348+/-0.008 $\chi^2$/NDF: 3078673.1/40

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: 0.017+/-0.026 $\chi^2$/NDF:4.5/3

Right Out: 0.004+/-0.019 $\chi^2$/NDF: 16.3/17

Left In: -0.030+/-0.027 $\chi^2$/NDF:7.0/2

Left: -0.006+/-0.019 $\chi^2$/NDF: 13.0/6

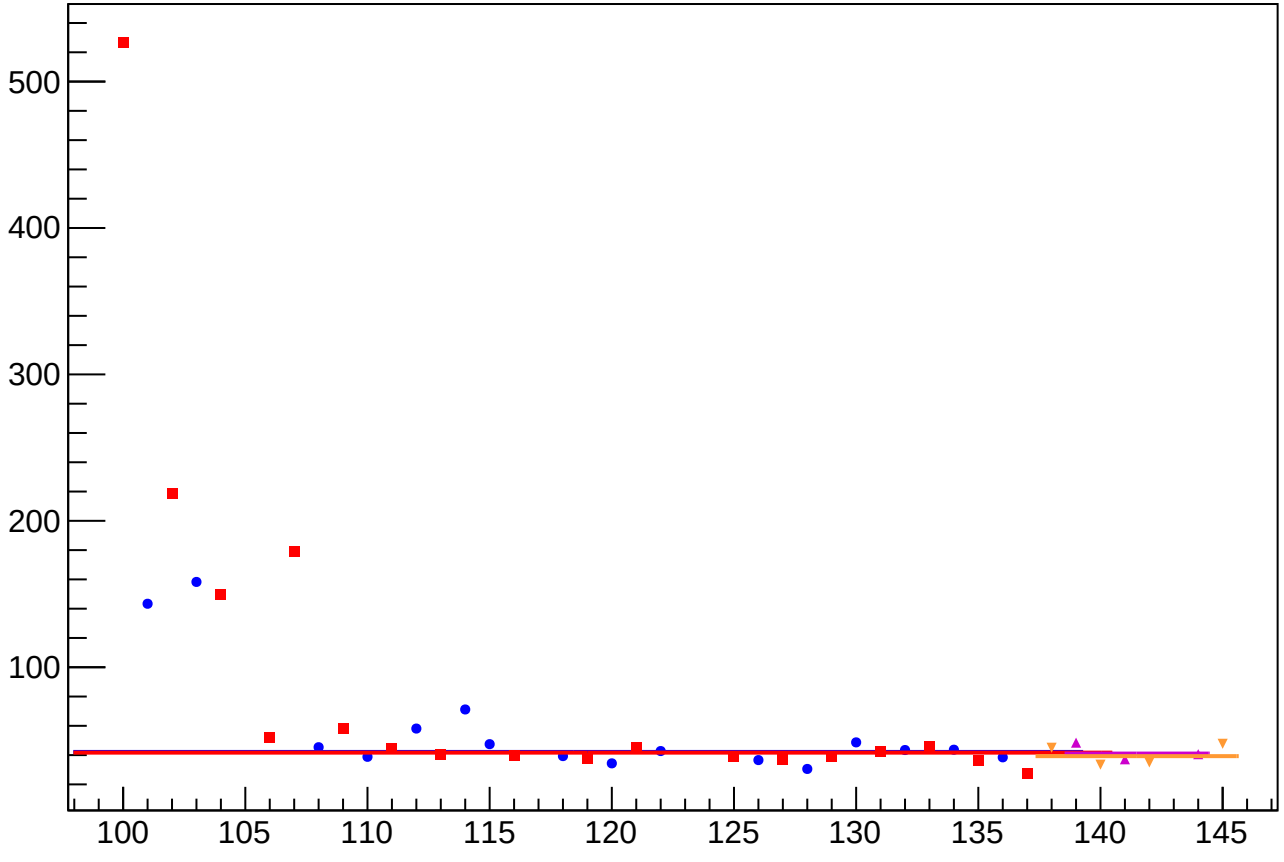
Right: 0.005+/-0.013 $\chi^2$/NDF: 33.5/33

In: -0.005+/-0.015 $\chi^2$/NDF:25.4/18

Out: 0.008+/-0.015 $\chi^2$/NDF:21.0/21

All: 0.002+/-0.011 $\chi^2$/NDF: 46.7/40

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: 39.289+/-0.018 $\chi^2$/NDF:113326.7/3

Right Out: 41.692+/-0.013 $\chi^2$/NDF: 1441185.4/17

Left In: 41.044+/-0.019 $\chi^2$/NDF:52153.7/2

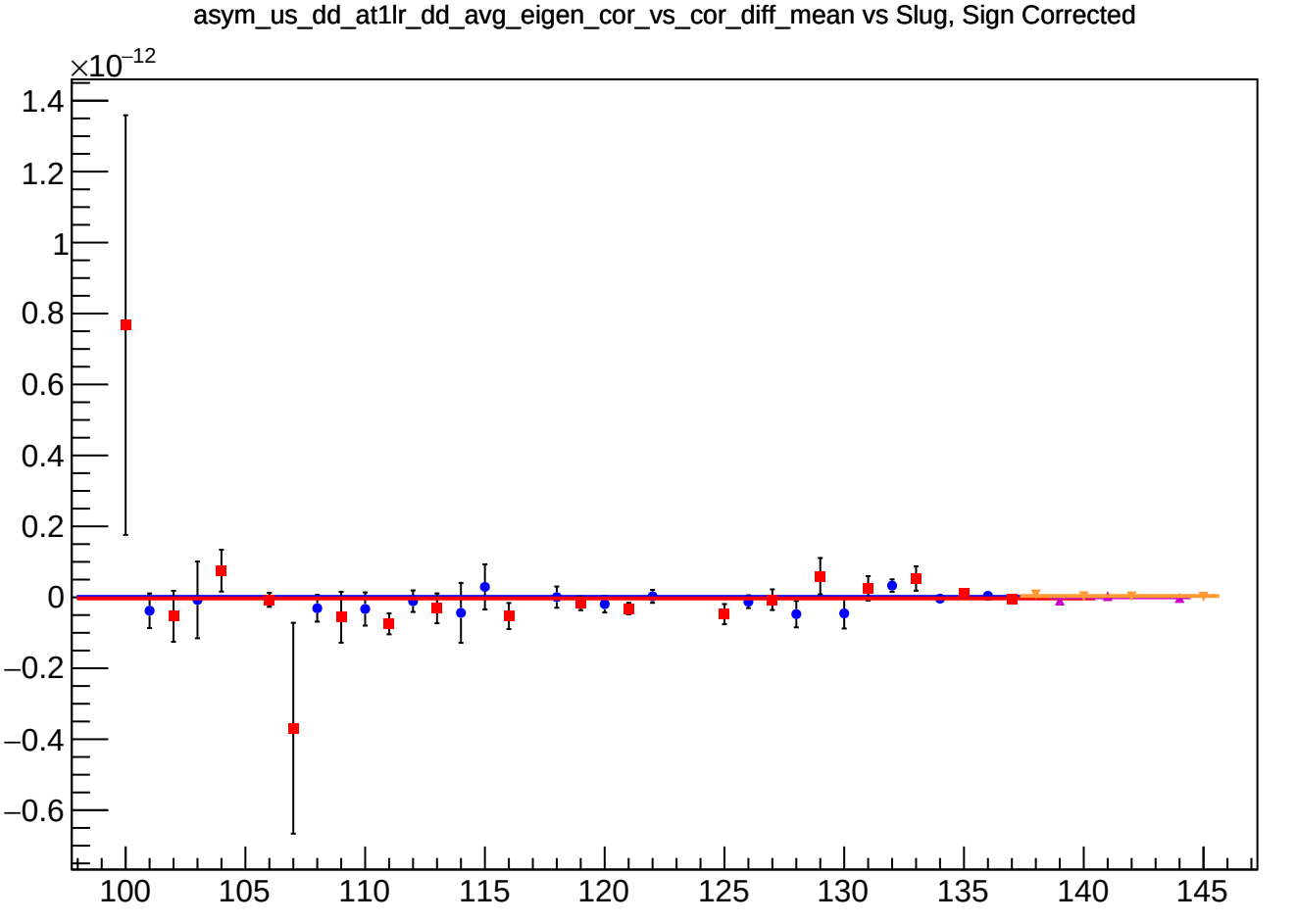
Left: 40.130+/-0.013 $\chi^2$/NDF: 169829.4/6

Right: 41.932+/-0.009 $\chi^2$/NDF: 2896430.8/33

In: 41.815+/-0.011 $\chi^2$/NDF:1509081.3/18

Out: 40.882+/-0.011 $\chi^2$/NDF:1565792.3/21

All: 41.348+/-0.008 $\chi^2$/NDF: 3078673.1/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.2/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.8/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.9/2

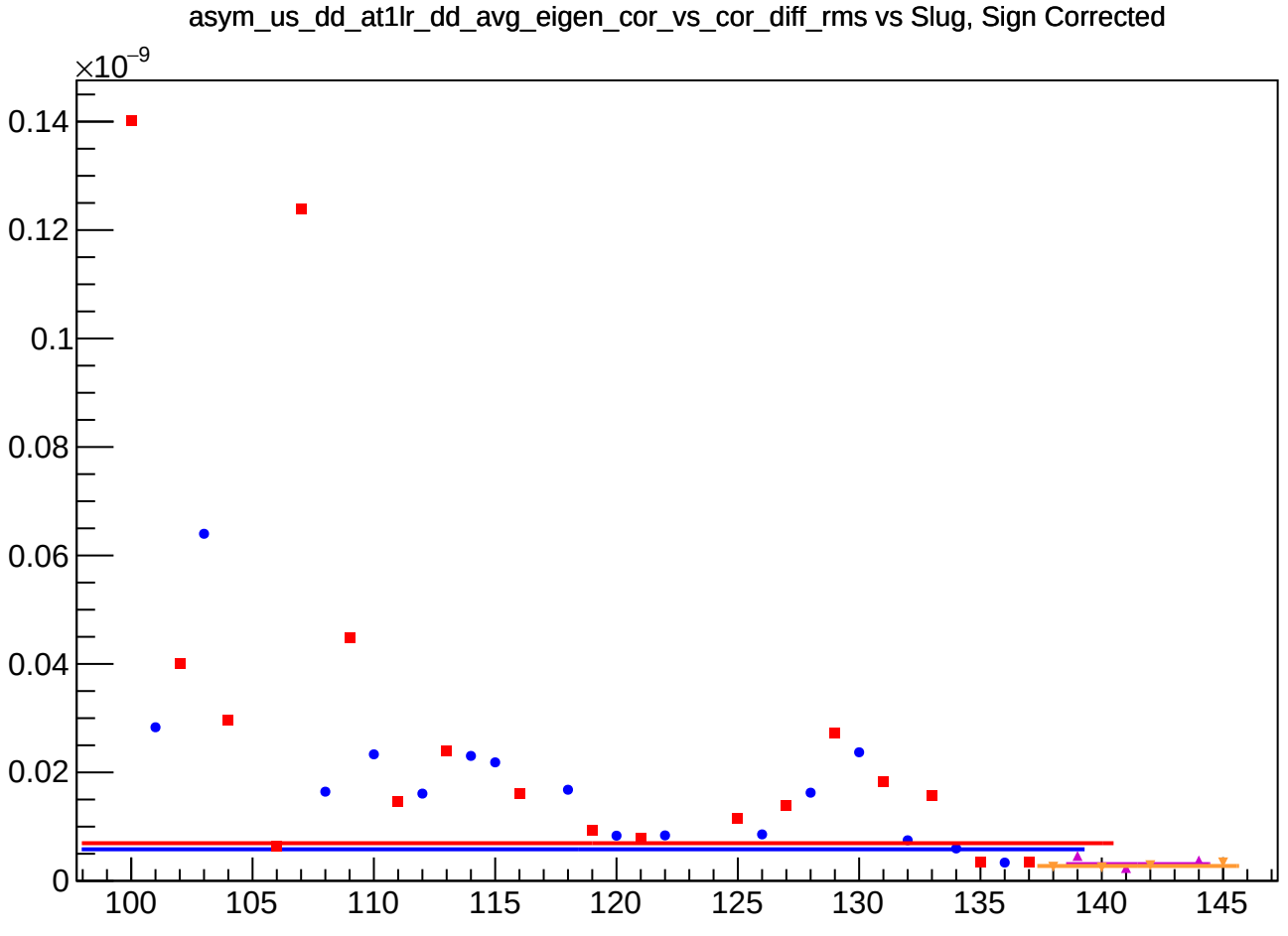
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.2/6

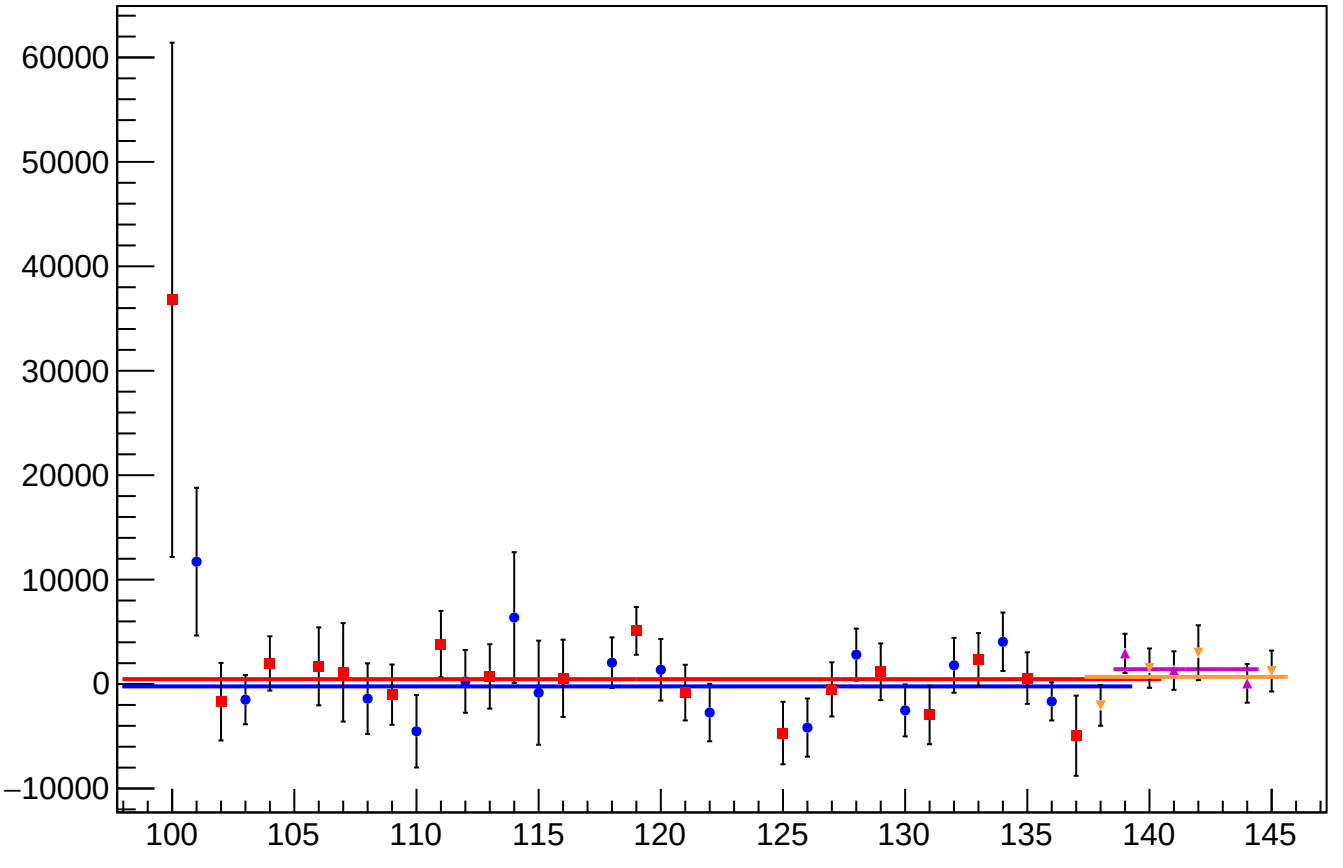
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:13.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:31.7/21

All: 0.000+/-0.000 $\chi^2$/NDF: 45.7/40


asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 3296021.2/15
Left Out: 0.000+/-0.000 χ²/NDF:50823.3/3
Right Out: 0.000+/-0.000 χ²/NDF: 3789910.8/17
Left In: 0.000+/-0.000 χ²/NDF:218410.1/2
Left: 0.000+/-0.000 χ²/NDF: 290225.9/6
Right: 0.000+/-0.000 χ²/NDF: 7152698.2/33
In: 0.000+/-0.000 χ²/NDF:4185795.5/18
Out: 0.000+/-0.000 χ²/NDF:5134698.8/21
All: 0.000+/-0.000 χ²/NDF: 9366750.6/40




Right In: -222.980+/-709.150 $\chi^2$/NDF: 15.8/15

Left Out: 688.979+/-1025.587 $\chi^2$/NDF:3.0/3

Right Out: 472.410+/-711.475 $\chi^2$/NDF: 15.9/17

Left In: 1422.082+/-1071.492 $\chi^2$/NDF:1.2/2

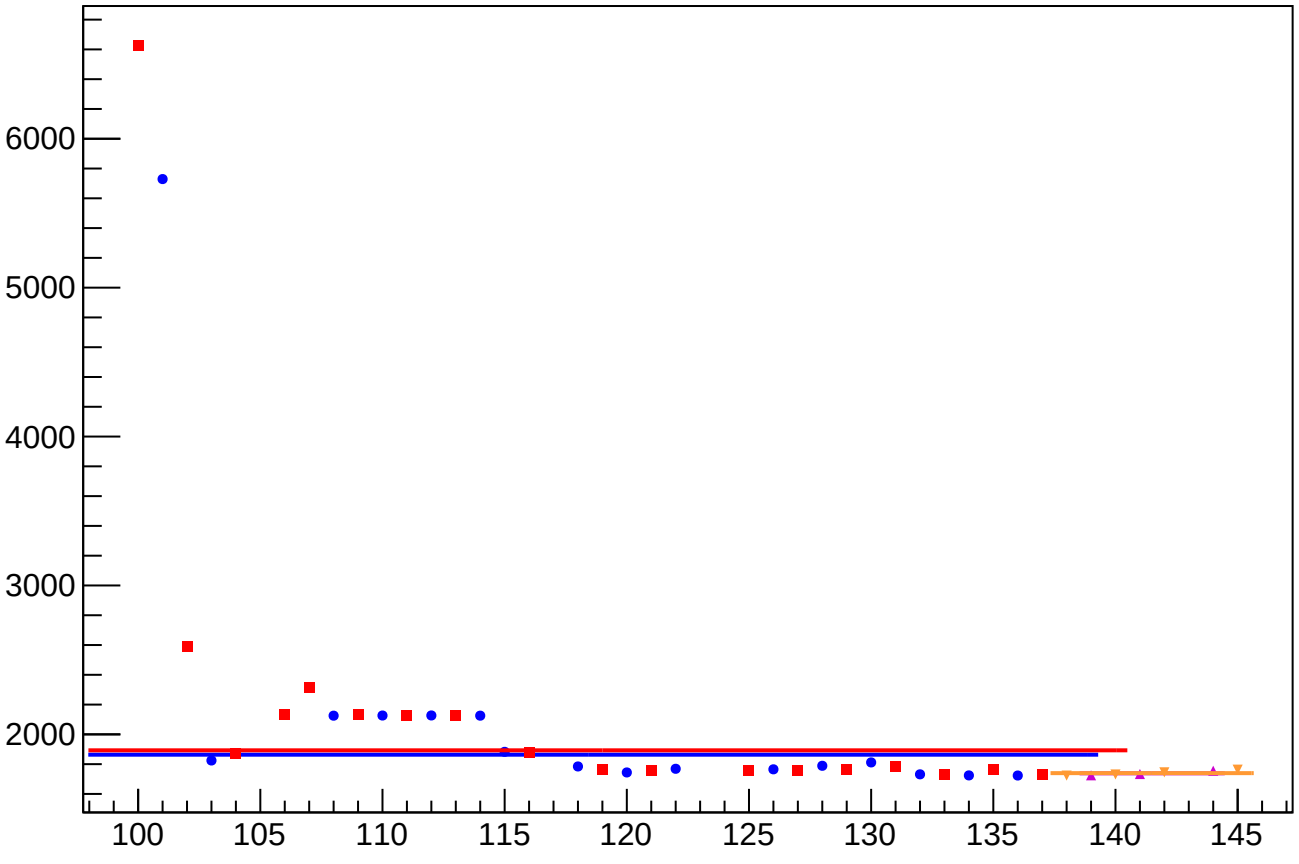
Left: 1039.491+/-740.897 $\chi^2$/NDF: 4.5/6

Right: 123.577+/-502.265 $\chi^2$/NDF: 32.2/33

In: 278.109+/-591.364 $\chi^2$/NDF:18.7/18

Out: 542.773+/-584.582 $\chi^2$/NDF:18.9/21

All: 411.967+/-415.739 $\chi^2$/NDF: 37.7/40




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.6/15

Left Out: 1739.657+/-0.725 $\chi^2$/NDF:482.6/3

Right Out: 1892.866+/-0.503 $\chi^2$/NDF: 251512.9/17

Left In: 1738.353+/-0.758 $\chi^2$/NDF:291.5/2

Left: 1739.033+/-0.524 $\chi^2$/NDF: 775.6/6

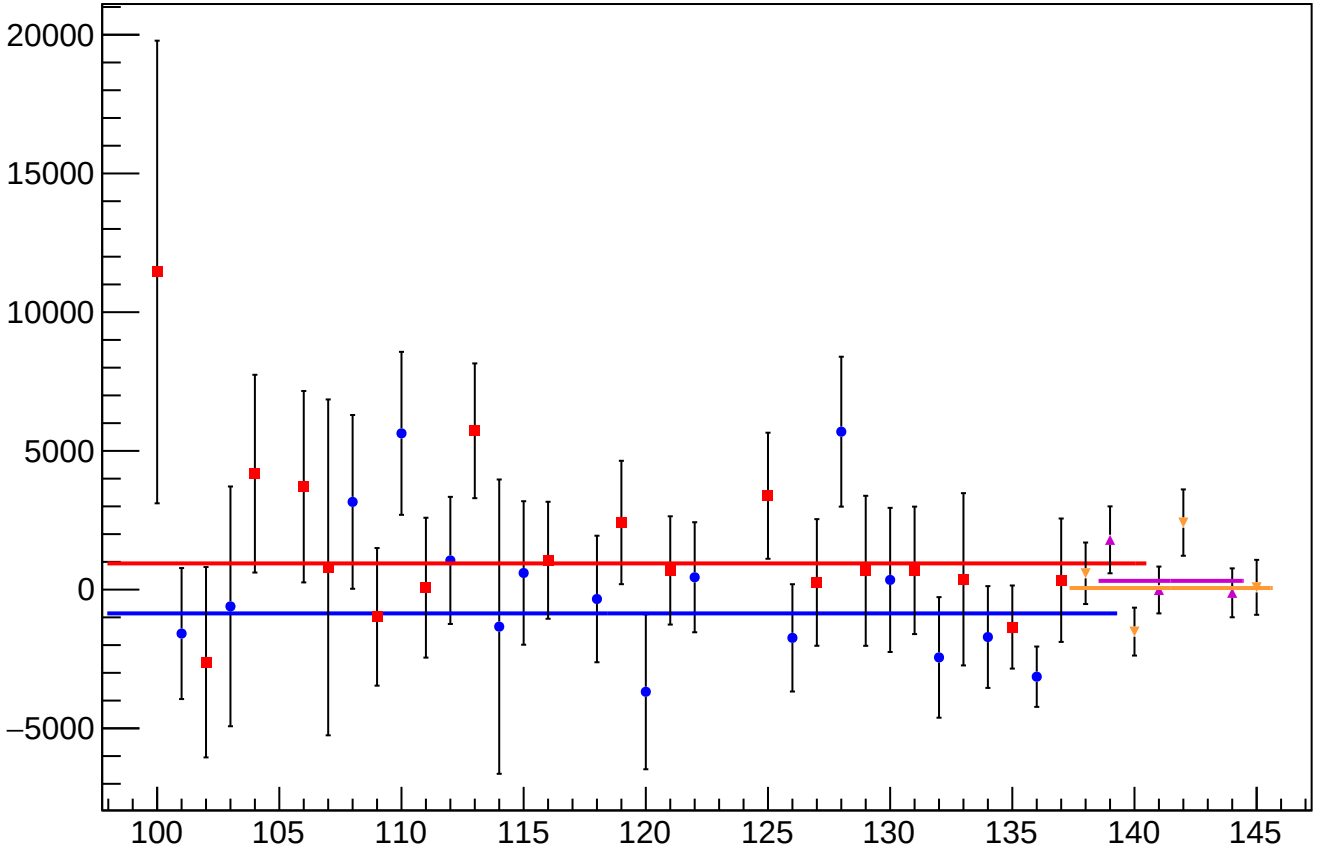
Right: 1878.175+/-0.355 $\chi^2$/NDF: 927878.2/33

In: 1825.436+/-0.418 $\chi^2$/NDF:693954.2/18

Out: 1843.089+/-0.413 $\chi^2$/NDF:282127.1/21

All: 1834.364+/-0.294 $\chi^2$/NDF: 976982.7/40

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: 57.118+/-508.067 $\chi^2$/NDF:7.4/3

Right Out: 944.718+/-583.967 $\chi^2$/NDF: 12.9/17

Left In: 315.583+/-544.082 $\chi^2$/NDF:1.9/2

Left: 177.514+/-371.337 $\chi^2$/NDF: 9.4/6

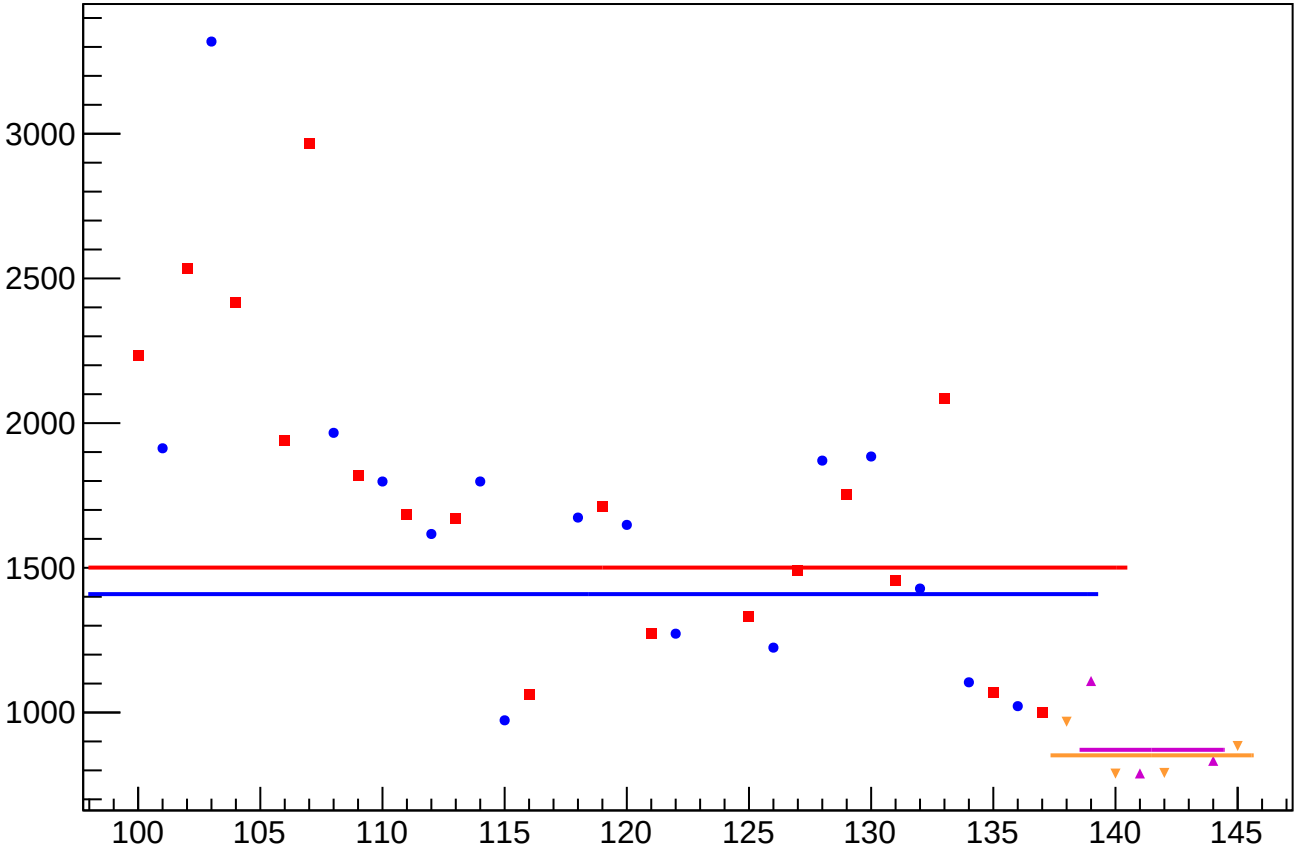
Right: -10.558+/-400.298 $\chi^2$/NDF: 38.6/33

In: -264.734+/-386.727 $\chi^2$/NDF:24.8/18

Out: 439.523+/-383.302 $\chi^2$/NDF:21.7/21

All: 90.526+/-272.238 $\chi^2$/NDF: 48.1/40

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: 851.964+/-0.359 $\chi^2$/NDF:39937.6/3

Right Out: 1500.801+/-0.413 $\chi^2$/NDF: 1030768.2/17

Left In: 871.091+/-0.385 $\chi^2$/NDF:100175.8/2

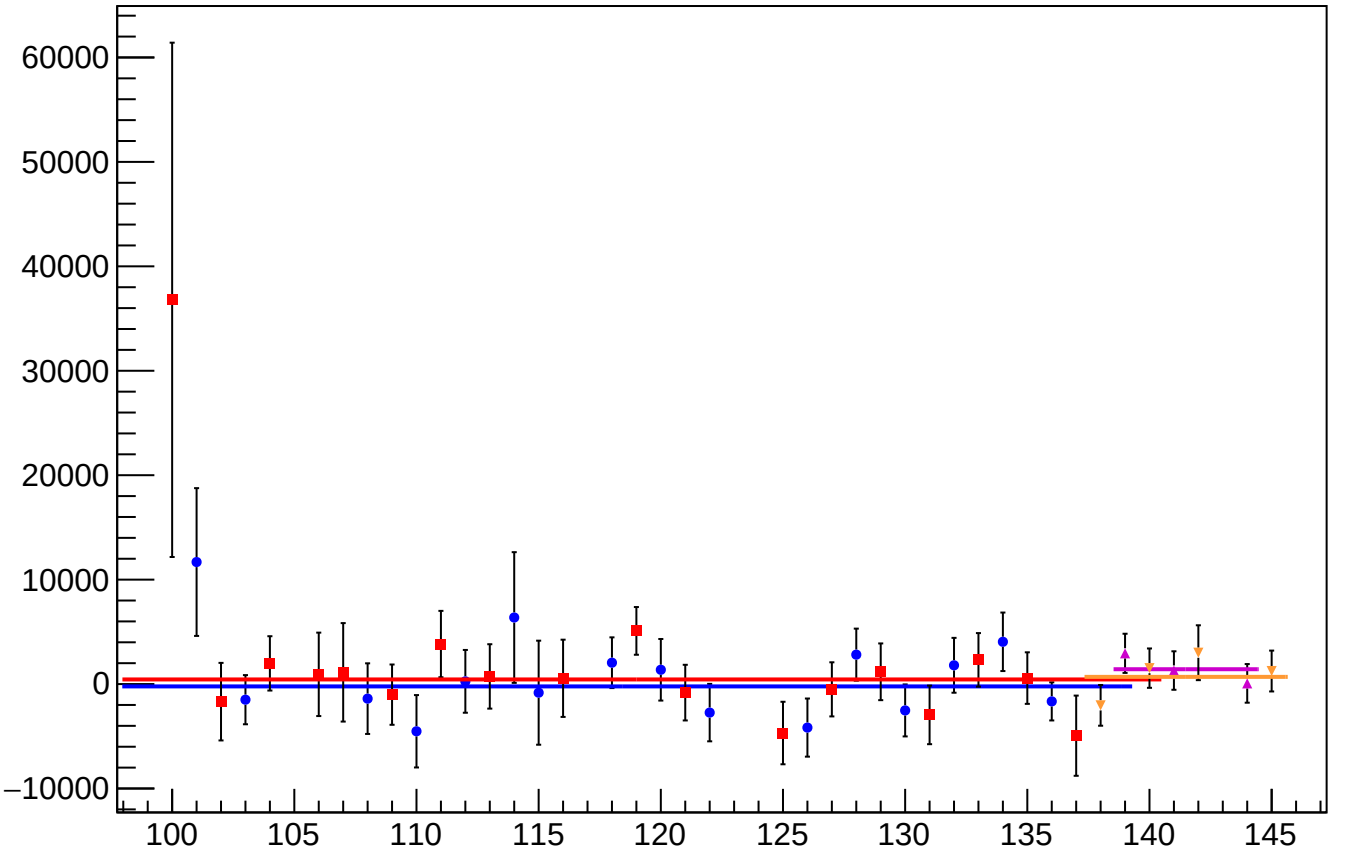
Left: 860.874+/-0.263 $\chi^2$/NDF: 141433.7/6

Right: 1452.187+/-0.283 $\chi^2$/NDF: 2224621.1/33

In: 1137.285+/-0.273 $\chi^2$/NDF:2235462.7/18

Out: 1131.503+/-0.271 $\chi^2$/NDF:2475994.0/21

All: 1134.368+/-0.193 $\chi^2$/NDF: 4711682.3/40




Right In: -223.754+/-709.151 $\chi^2$/NDF: 15.8/15

Left Out: 689.103+/-1025.587 $\chi^2$/NDF:3.0/3

Right Out: 443.022+/-713.098 $\chi^2$/NDF: 15.8/17

Left In: 1422.109+/-1071.492 $\chi^2$/NDF:1.2/2

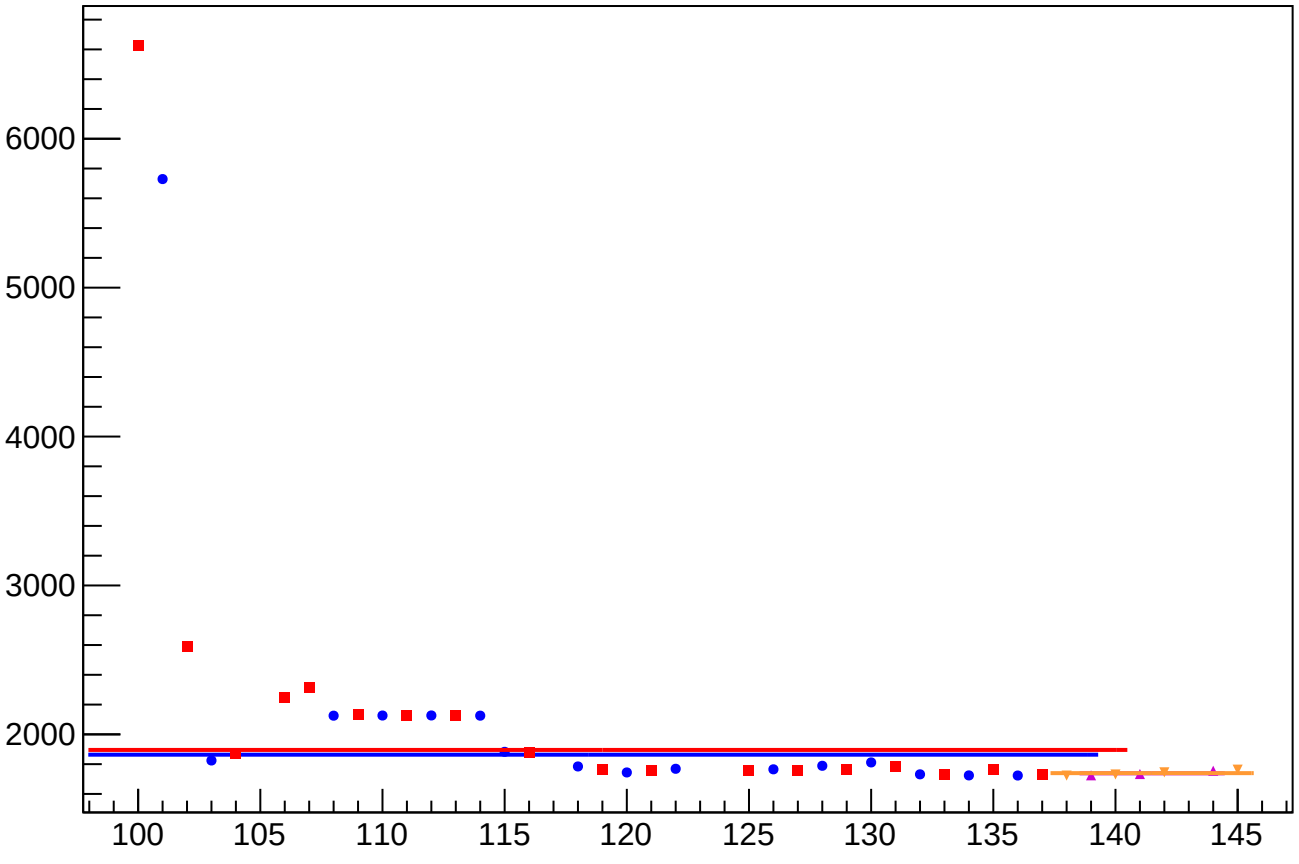
Left: 1039.568+/-740.897 $\chi^2$/NDF: 4.5/6

Right: 107.783+/-502.835 $\chi^2$/NDF: 32.0/33

In: 277.579+/-591.365 $\chi^2$/NDF:18.7/18

Out: 523.219+/-585.481 $\chi^2$/NDF:18.8/21

All: 401.627+/-416.062 $\chi^2$/NDF: 37.6/40




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.4/15

Left Out: 1739.657+/-0.725 $\chi^2$/NDF:482.6/3

Right Out: 1895.491+/-0.504 $\chi^2$/NDF: 259171.7/17

Left In: 1738.353+/-0.758 $\chi^2$/NDF:291.5/2

Left: 1739.033+/-0.524 $\chi^2$/NDF: 775.6/6

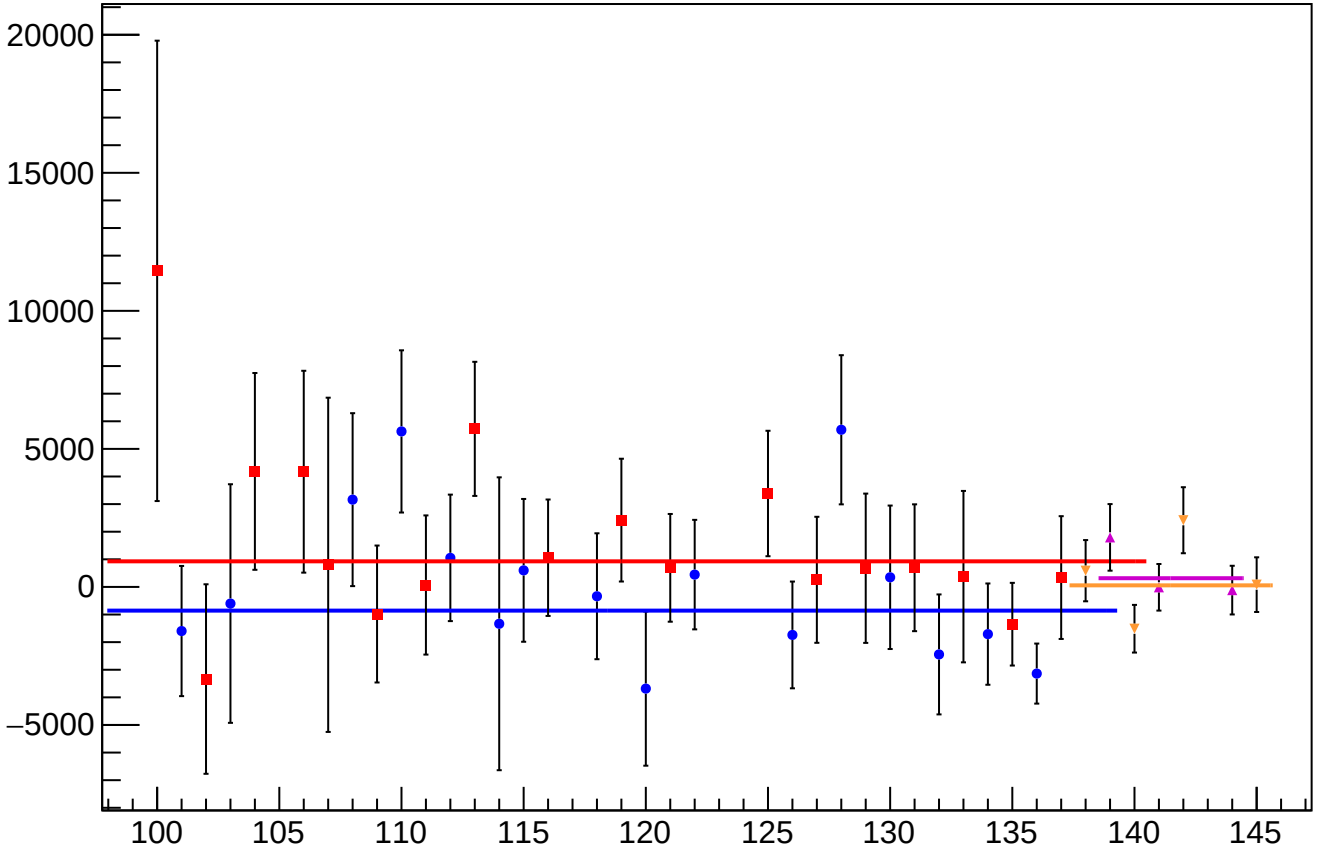
Right: 1879.447+/-0.356 $\chi^2$/NDF: 935850.8/33

In: 1825.436+/-0.418 $\chi^2$/NDF:693954.1/18

Out: 1844.706+/-0.414 $\chi^2$/NDF:290781.4/21

All: 1835.167+/-0.294 $\chi^2$/NDF: 985807.8/40

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: 57.092+/-508.070 $\chi^2$/NDF:7.4/3

Right Out: 927.191+/-584.886 $\chi^2$/NDF: 13.5/17

Left In: 315.666+/-544.075 $\chi^2$/NDF:1.9/2

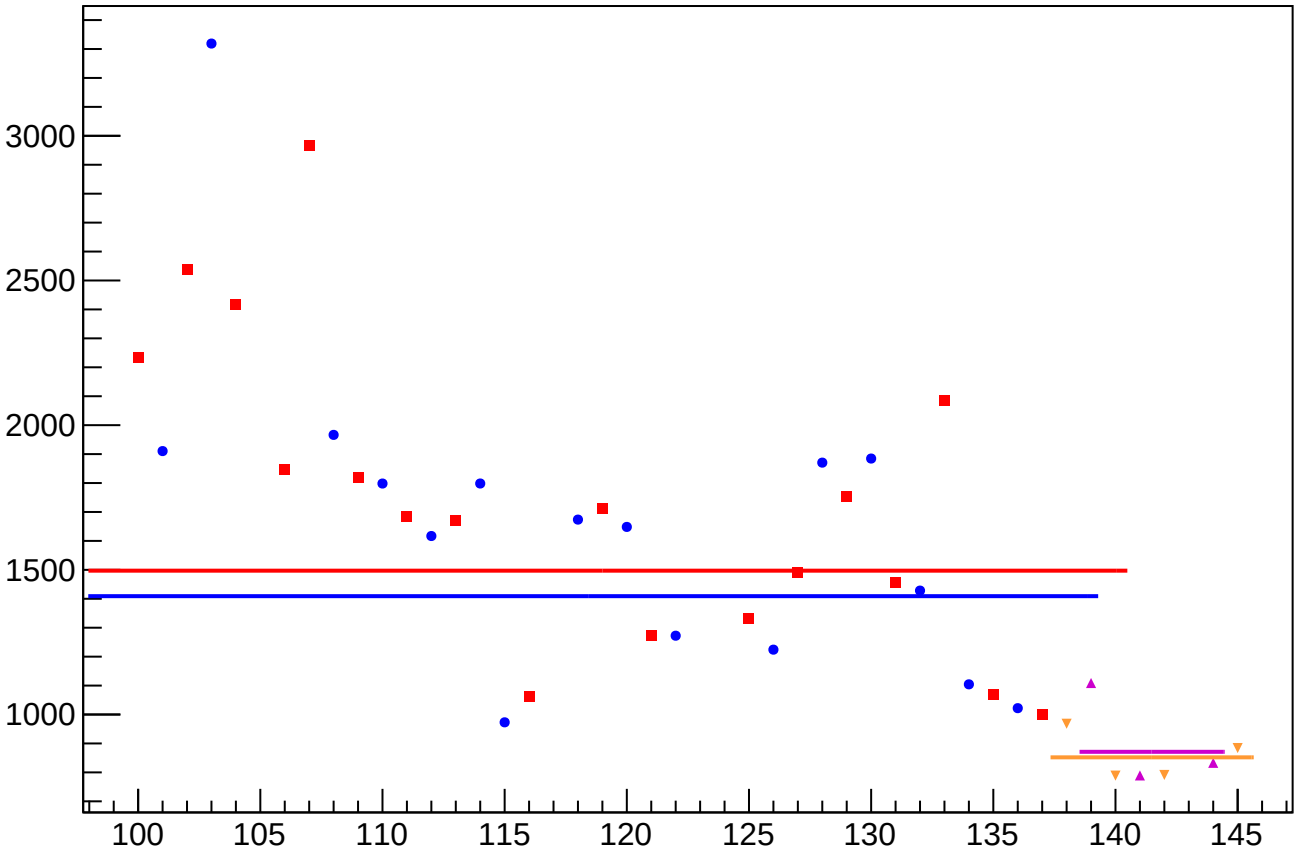
Left: 177.540+/-371.336 $\chi^2$/NDF: 9.4/6

Right: -20.697+/-400.577 $\chi^2$/NDF: 39.1/33

In: -265.137+/-386.710 $\chi^2$/NDF:24.8/18

Out: 431.288+/-383.563 $\chi^2$/NDF:22.2/21

All: 85.920+/-272.326 $\chi^2$/NDF: 48.7/40




Right In: 1409.018+/-0.389 $\chi^2$/NDF: 1167065.5/15

Left Out: 851.971+/-0.359 $\chi^2$/NDF:39921.6/3

Right Out: 1497.149+/-0.414 $\chi^2$/NDF: 1018123.6/17

Left In: 871.080+/-0.385 $\chi^2$/NDF:100177.4/2

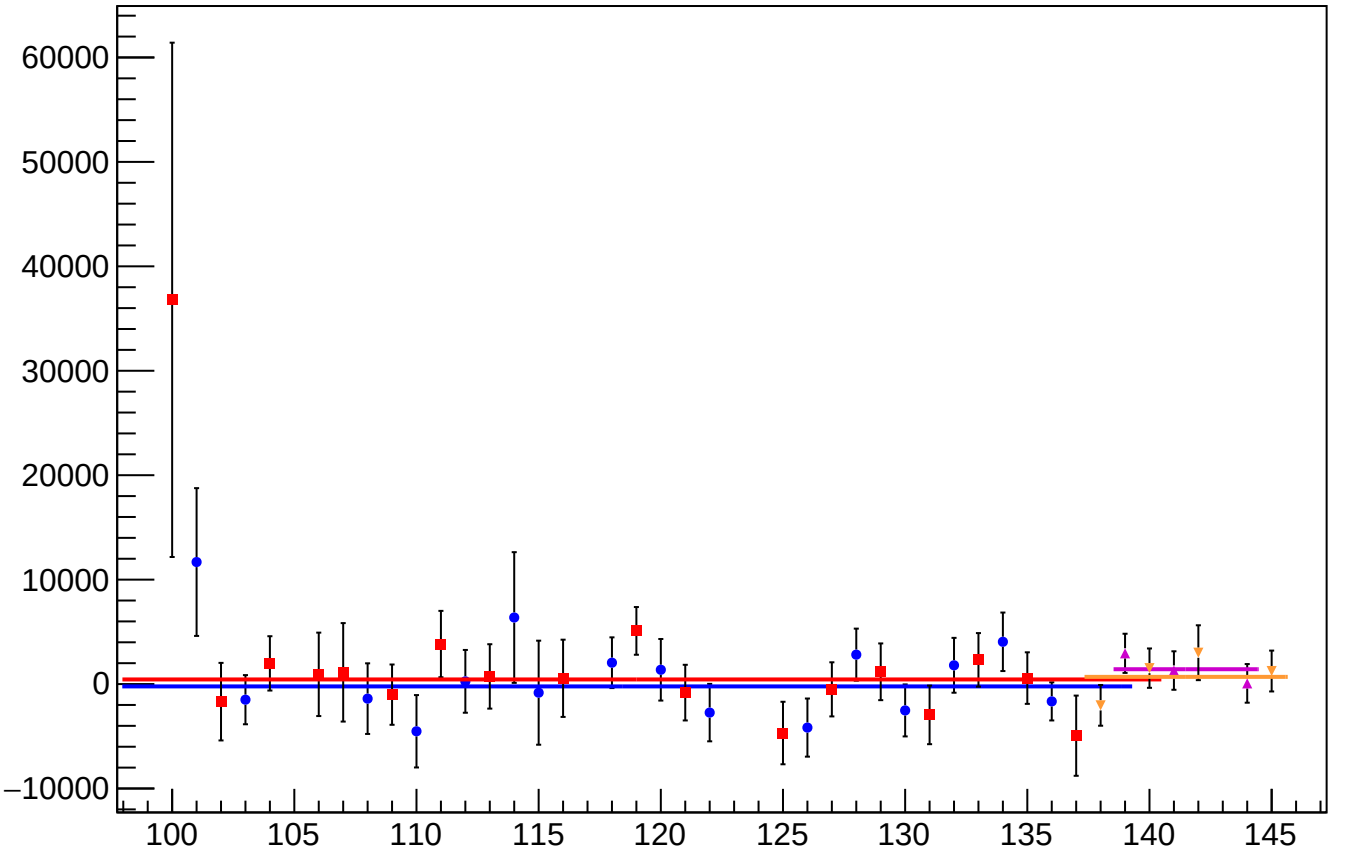
Left: 860.872+/-0.263 $\chi^2$/NDF: 141416.9/6

Right: 1450.357+/-0.283 $\chi^2$/NDF: 2209298.3/33

In: 1137.259+/-0.273 $\chi^2$/NDF:2234670.5/18

Out: 1129.437+/-0.271 $\chi^2$/NDF:2445037.4/21

All: 1133.316+/-0.193 $\chi^2$/NDF: 4680120.3/40




Right In: -223.754+/-709.151 $\chi^2$/NDF: 15.8/15

Left Out: 689.103+/-1025.587 $\chi^2$/NDF:3.0/3

Right Out: 443.022+/-713.098 $\chi^2$/NDF: 15.8/17

Left In: 1422.109+/-1071.492 $\chi^2$/NDF:1.2/2

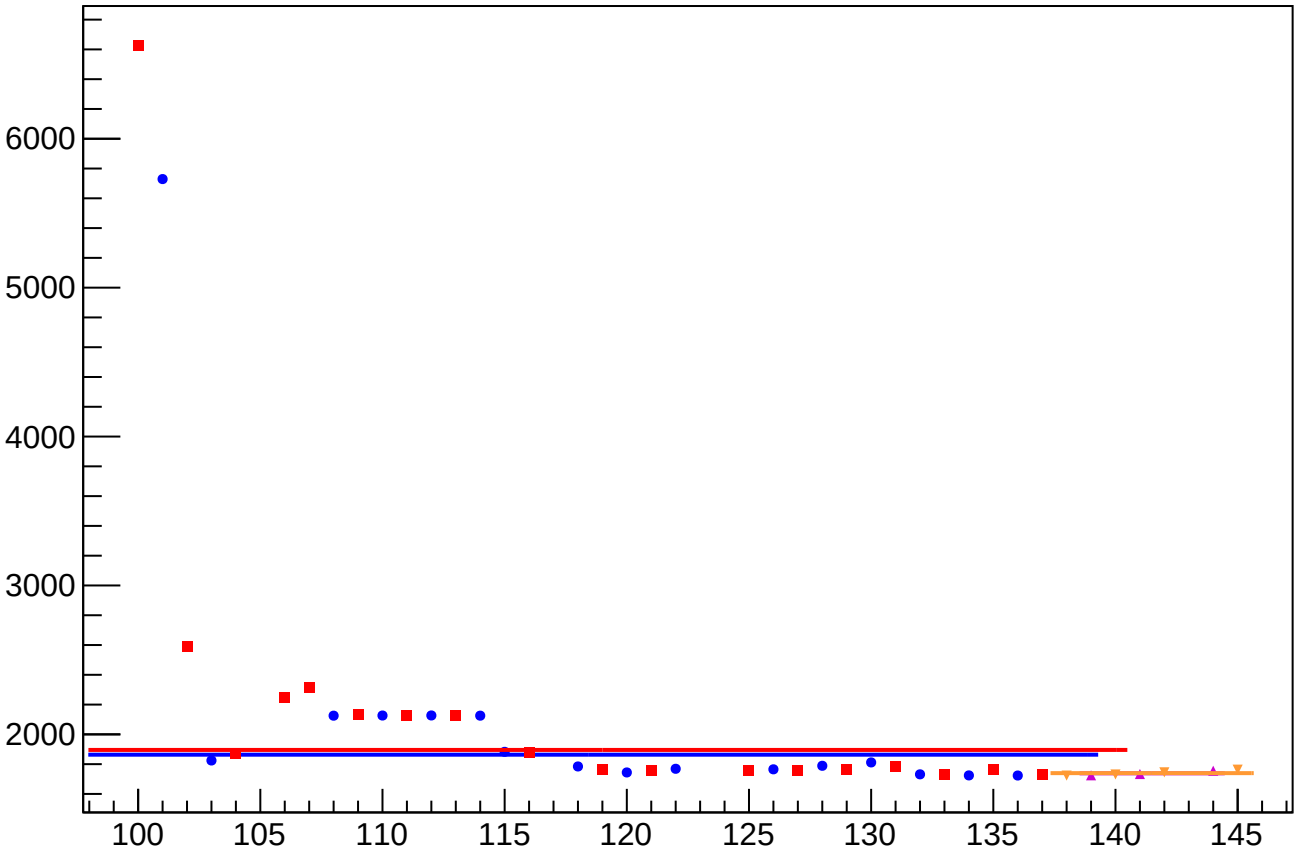
Left: 1039.568+/-740.897 $\chi^2$/NDF: 4.5/6

Right: 107.783+/-502.835 $\chi^2$/NDF: 32.0/33

In: 277.579+/-591.365 $\chi^2$/NDF:18.7/18

Out: 523.219+/-585.481 $\chi^2$/NDF:18.8/21

All: 401.627+/-416.062 $\chi^2$/NDF: 37.6/40




Right In: 1863.581+/-0.501 $\chi^2$/NDF: 674665.4/15

Left Out: 1739.657+/-0.725 $\chi^2$/NDF:482.6/3

Right Out: 1895.491+/-0.504 $\chi^2$/NDF: 259171.7/17

Left In: 1738.353+/-0.758 $\chi^2$/NDF:291.5/2

Left: 1739.033+/-0.524 $\chi^2$/NDF: 775.6/6

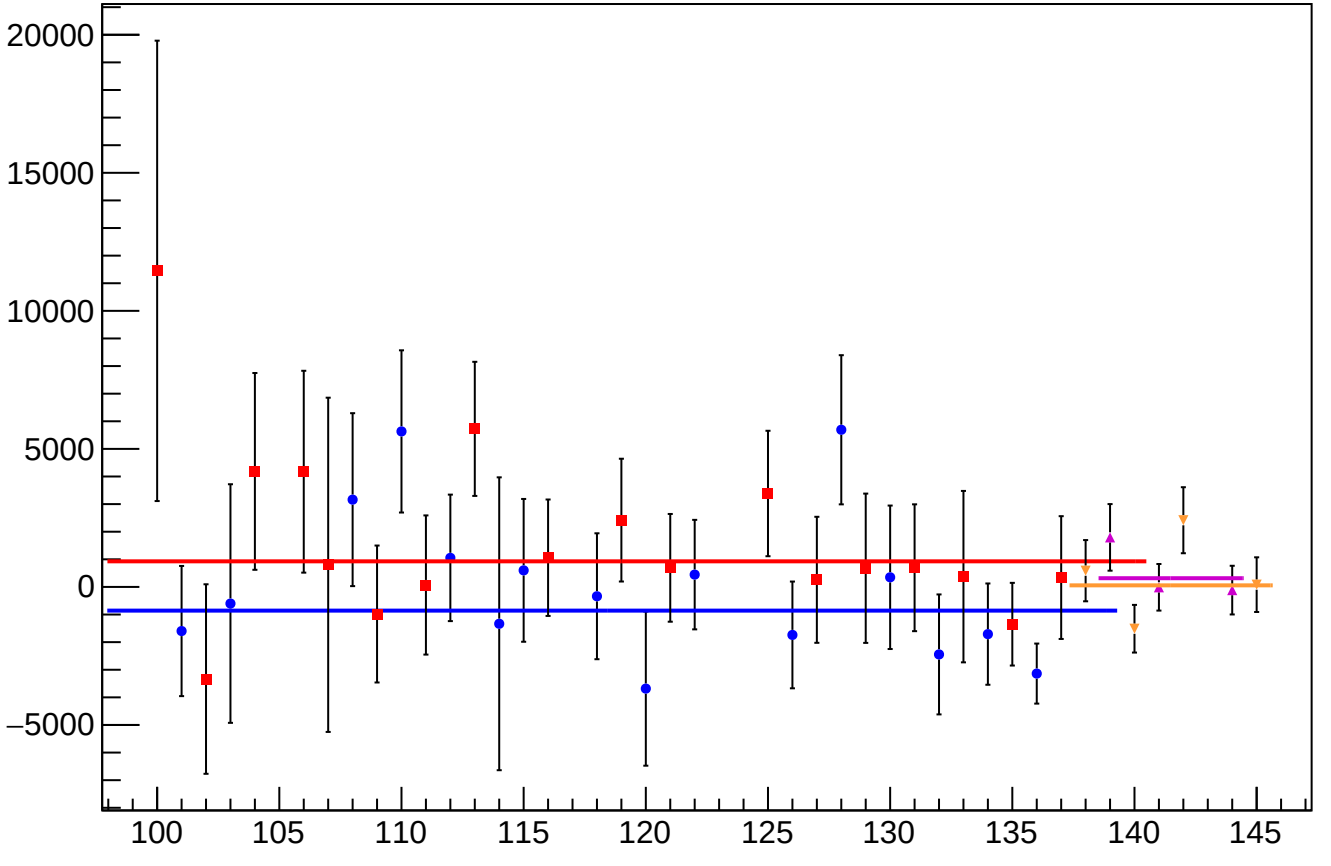
Right: 1879.447+/-0.356 $\chi^2$/NDF: 935850.8/33

In: 1825.436+/-0.418 $\chi^2$/NDF:693954.1/18

Out: 1844.706+/-0.414 $\chi^2$/NDF:290781.4/21

All: 1835.167+/-0.294 $\chi^2$/NDF: 985807.8/40

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: 57.092+/-508.070 $\chi^2$/NDF:7.4/3

Right Out: 927.191+/-584.886 $\chi^2$/NDF: 13.5/17

Left In: 315.666+/-544.075 $\chi^2$/NDF:1.9/2

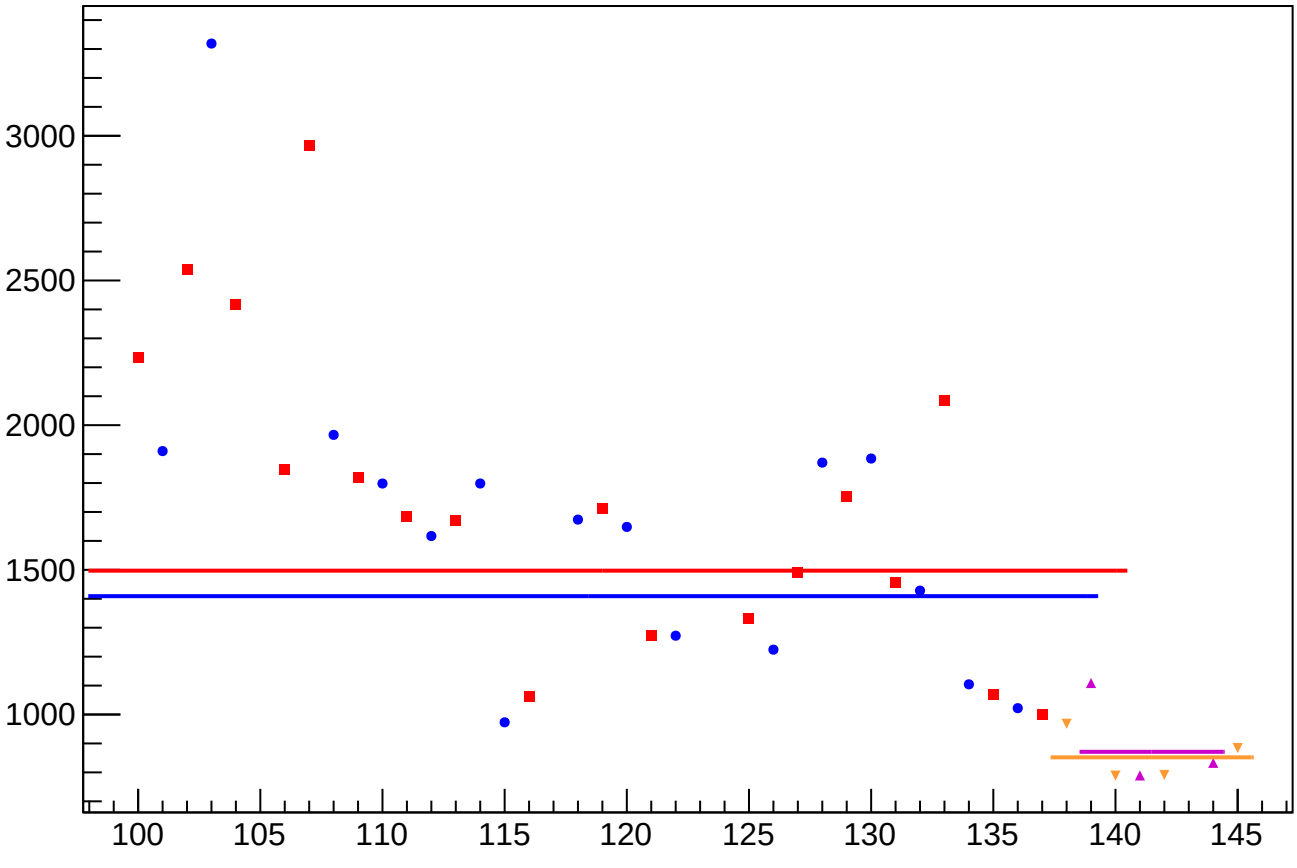
Left: 177.540+/-371.336 $\chi^2$/NDF: 9.4/6

Right: -20.697+/-400.577 $\chi^2$/NDF: 39.1/33

In: -265.137+/-386.710 $\chi^2$/NDF:24.8/18

Out: 431.288+/-383.563 $\chi^2$/NDF:22.2/21

All: 85.920+/-272.326 $\chi^2$/NDF: 48.7/40




Right In: 1409.018+/-0.389 $\chi^2$/NDF: 1167065.5/15

Left Out: 851.971+/-0.359 $\chi^2$/NDF:39921.6/3

Right Out: 1497.149+/-0.414 $\chi^2$/NDF: 1018123.6/17

Left In: 871.080+/-0.385 $\chi^2$/NDF:100177.4/2

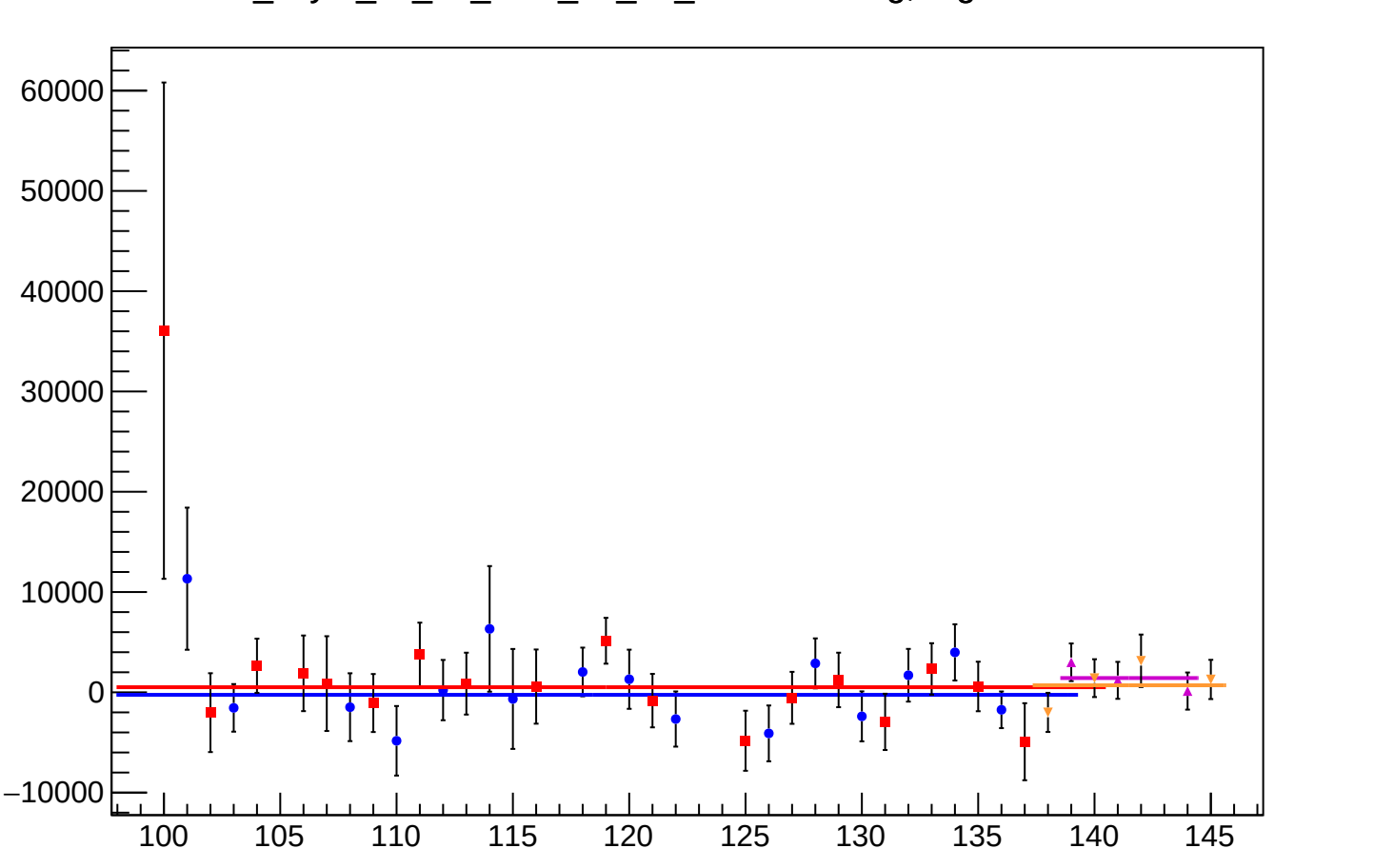
Left: 860.872+/-0.263 $\chi^2$/NDF: 141416.9/6

Right: 1450.357+/-0.283 $\chi^2$/NDF: 2209298.3/33

In: 1137.259+/-0.273 $\chi^2$/NDF:2234670.5/18

Out: 1129.437+/-0.271 $\chi^2$/NDF:2445037.4/21

All: 1133.316+/-0.193 $\chi^2$/NDF: 4680120.3/40




Right In: -252.024+/-709.973 $\chi^2$/NDF: 15.6/15

Left Out: 701.562+/-1025.526 $\chi^2$/NDF:3.0/3

Right Out: 510.117+/-715.442 $\chi^2$/NDF: 16.4/17

Left In: 1424.216+/-1072.008 $\chi^2$/NDF:1.2/2

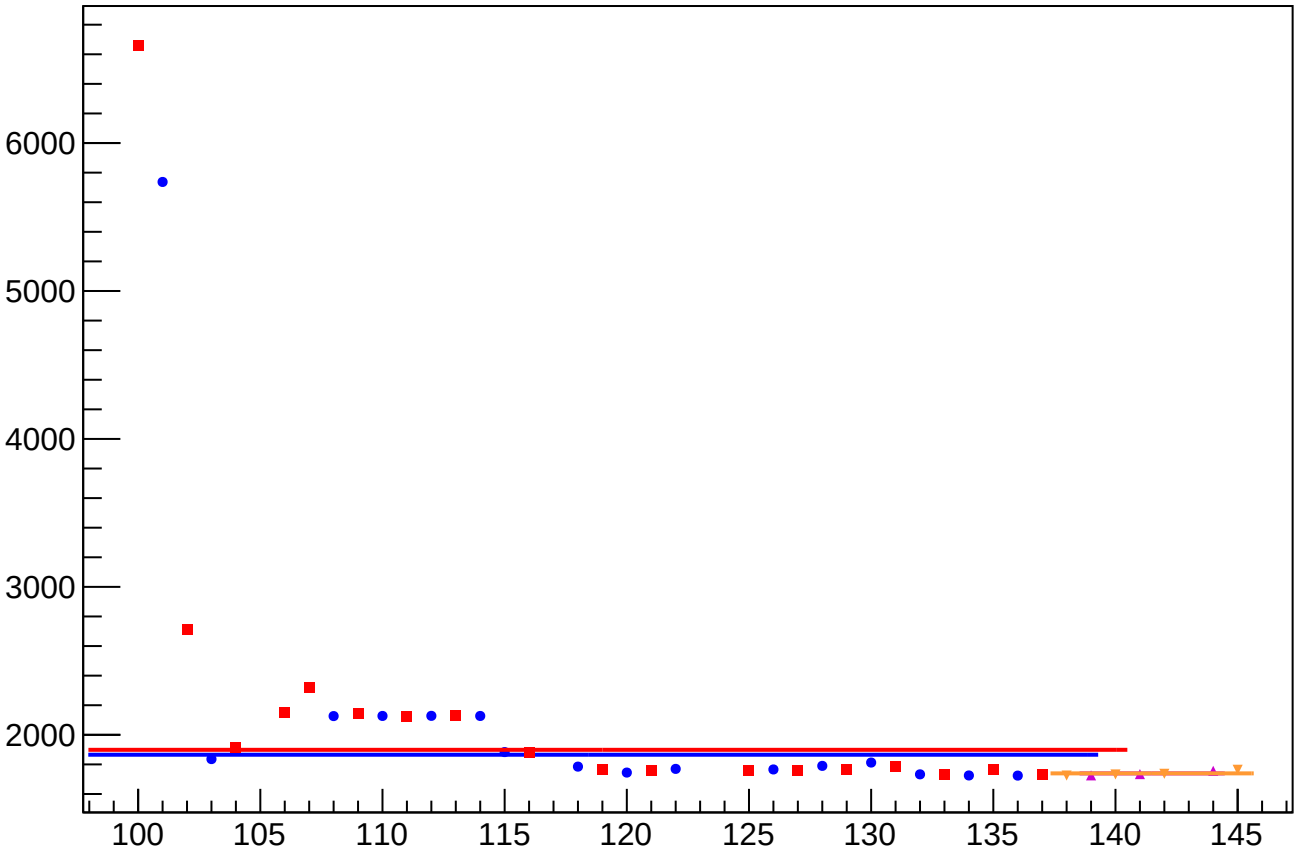
Left: 1046.883+/-741.044 $\chi^2$/NDF: 4.5/6

Right: 126.122+/-503.949 $\chi^2$/NDF: 32.6/33

In: 259.043+/-591.928 $\chi^2$/NDF:18.6/18

Out: 572.790+/-586.764 $\chi^2$/NDF:19.5/21

All: 417.291+/-416.719 $\chi^2$/NDF: 38.2/40




Right In: 1865.440+/-0.502 $\chi^2$/NDF: 674989.6/15

Left Out: 1739.384+/-0.725 $\chi^2$/NDF:456.1/3

Right Out: 1898.603+/-0.506 $\chi^2$/NDF: 269110.1/17

Left In: 1739.190+/-0.758 $\chi^2$/NDF:291.5/2

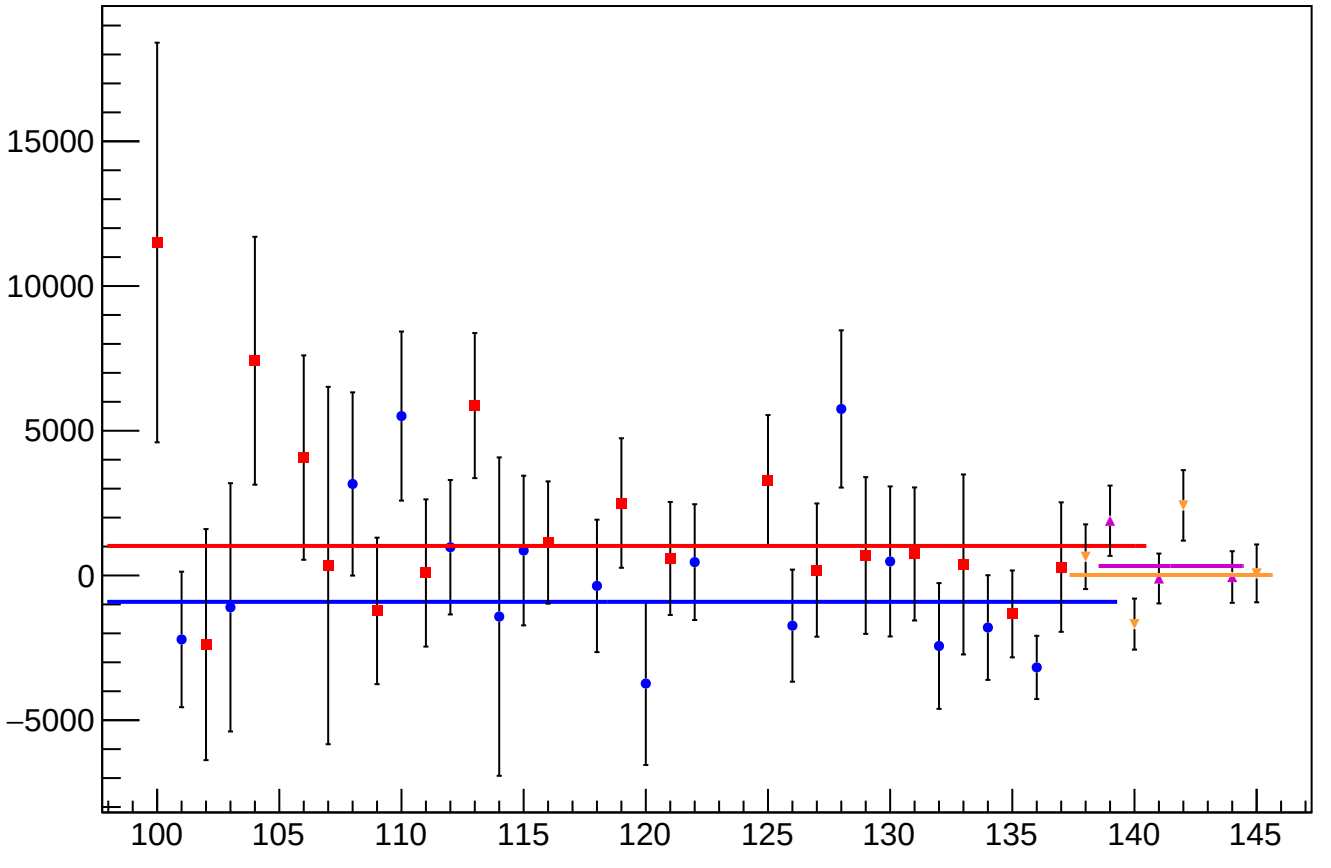
Left: 1739.291+/-0.524 $\chi^2$/NDF: 747.6/6

Right: 1881.894+/-0.356 $\chi^2$/NDF: 946264.8/33

In: 1826.948+/-0.419 $\chi^2$/NDF:694563.1/18

Out: 1846.480+/-0.415 $\chi^2$/NDF:301993.1/21

All: 1836.799+/-0.295 $\chi^2$/NDF: 997654.7/40




Right In: -910.955+/-550.836 $\chi^2$/NDF: 21.0/15

Left Out: 17.191+/-515.674 $\chi^2$/NDF:7.9/3

Right Out: 1020.124+/-591.600 $\chi^2$/NDF: 14.9/17

Left In: 326.948+/-552.017 $\chi^2$/NDF:2.1/2

Left: 161.538+/-376.830 $\chi^2$/NDF: 10.2/6

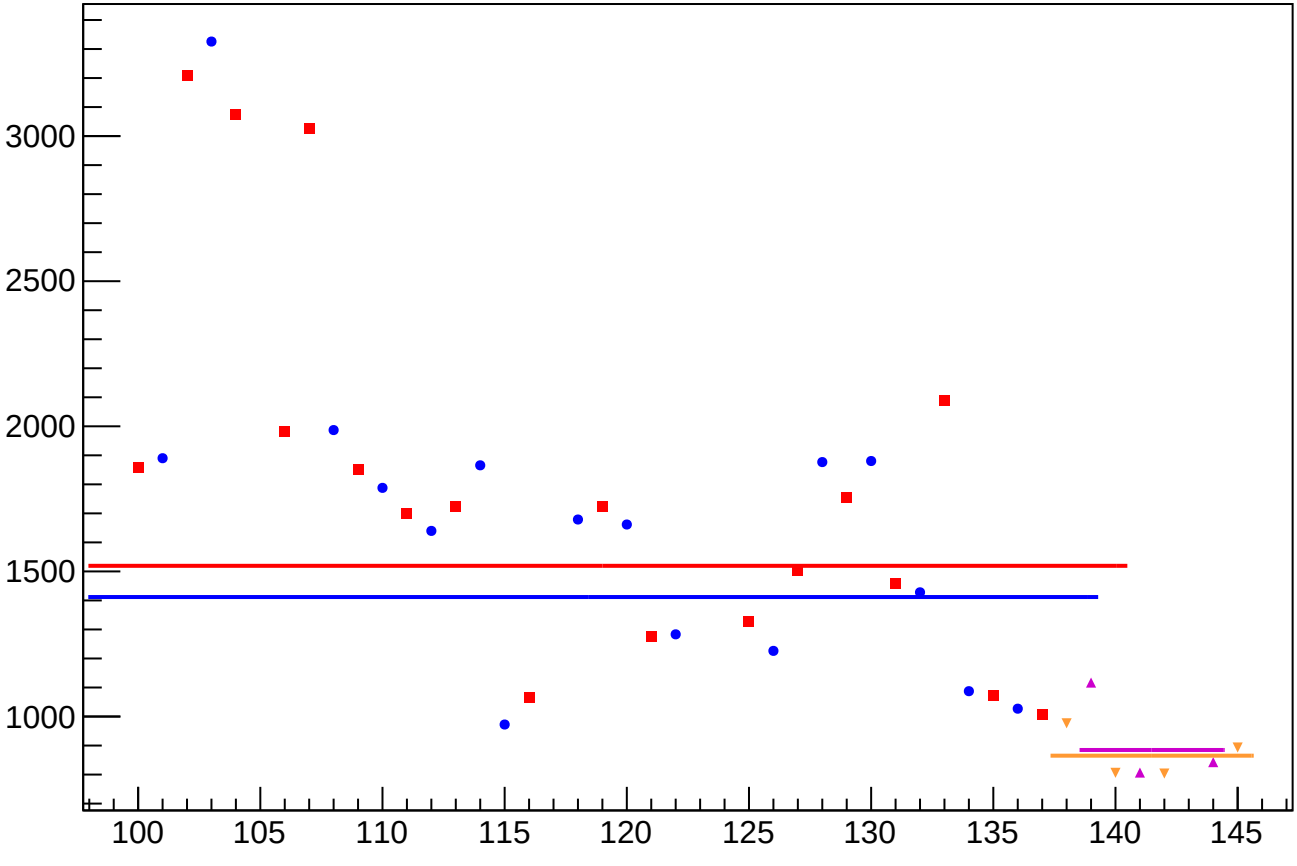
Right: -14.232+/-403.141 $\chi^2$/NDF: 41.6/33

In: -293.328+/-389.917 $\chi^2$/NDF:25.6/18

Out: 450.208+/-388.727 $\chi^2$/NDF:24.5/21

All: 79.576+/-275.291 $\chi^2$/NDF: 51.9/40

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 1411.748+/-0.389 $\chi^2$/NDF: 1177745.4/15

Left Out: 865.110+/-0.365 $\chi^2$/NDF:35587.1/3

Right Out: 1519.305+/-0.418 $\chi^2$/NDF: 1360145.6/17

Left In: 884.737+/-0.390 $\chi^2$/NDF:93842.3/2

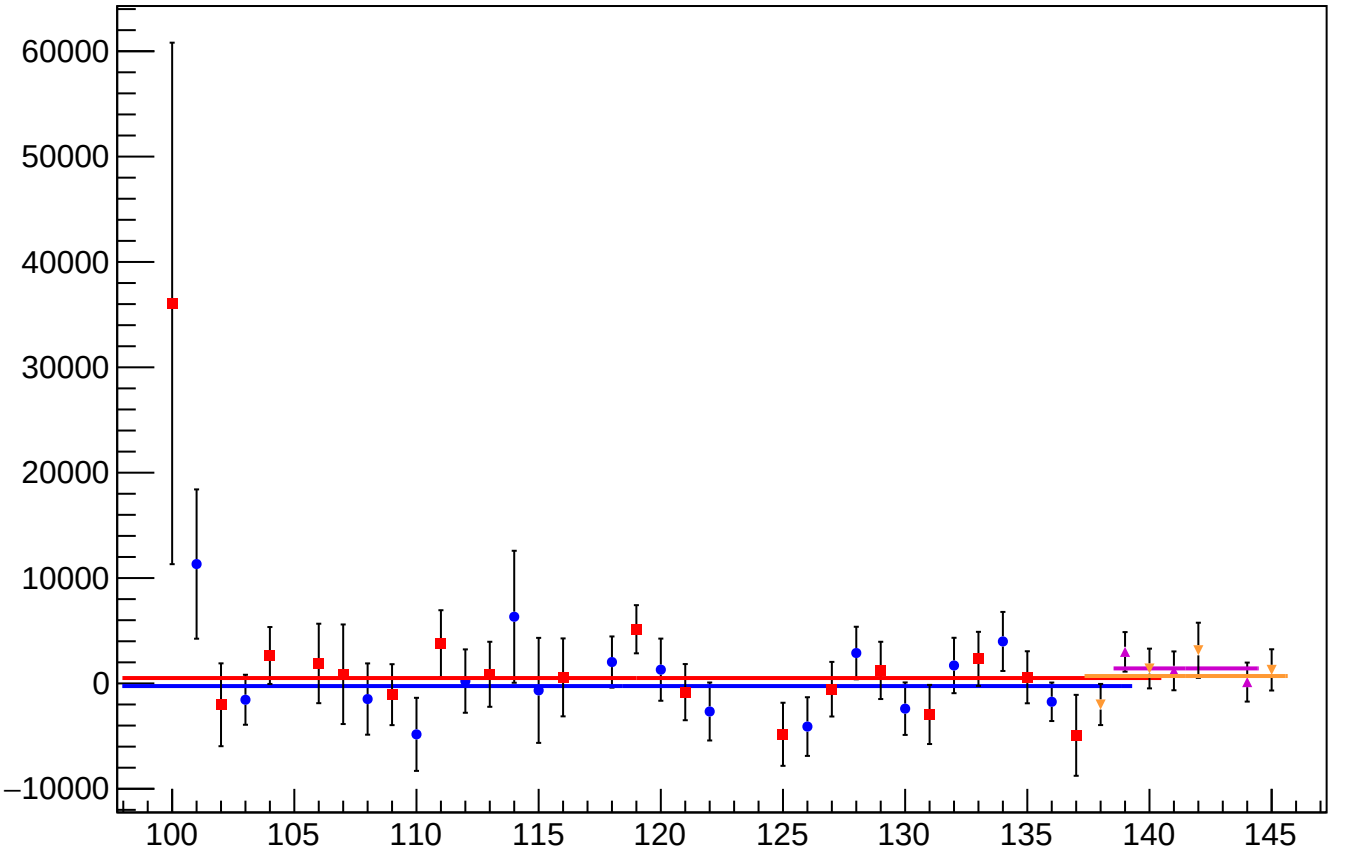
Left: 874.256+/-0.266 $\chi^2$/NDF: 130779.6/6

Right: 1461.694+/-0.285 $\chi^2$/NDF: 2573300.6/33

In: 1148.807+/-0.276 $\chi^2$/NDF:2184993.3/18

Out: 1147.559+/-0.275 $\chi^2$/NDF:2785451.5/21

All: 1148.181+/-0.195 $\chi^2$/NDF: 4970455.1/40




Right In: -252.023+/-709.973 $\chi^2$/NDF: 15.6/15

Left Out: 701.562+/-1025.526 $\chi^2$/NDF:3.0/3

Right Out: 510.117+/-715.442 $\chi^2$/NDF: 16.4/17

Left In: 1424.219+/-1072.008 $\chi^2$/NDF:1.2/2

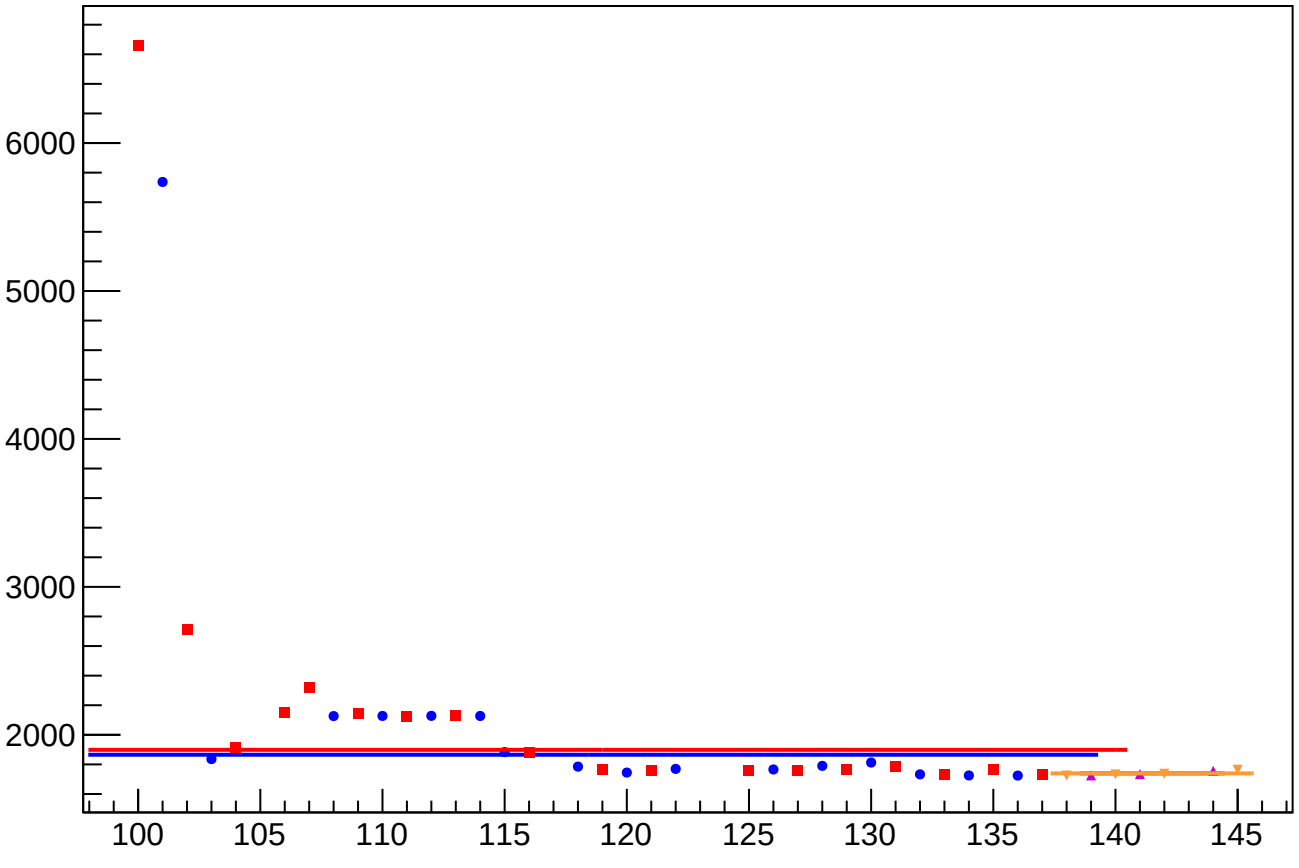
Left: 1046.884+/-741.044 $\chi^2$/NDF: 4.5/6

Right: 126.122+/-503.949 $\chi^2$/NDF: 32.6/33

In: 259.044+/-591.928 $\chi^2$/NDF:18.6/18

Out: 572.789+/-586.764 $\chi^2$/NDF:19.5/21

All: 417.291+/-416.719 $\chi^2$/NDF: 38.2/40




Right In: 1865.440+/-0.502 $\chi^2$/NDF: 674989.6/15

Left Out: 1739.384+/-0.725 $\chi^2$/NDF:456.1/3

Right Out: 1898.603+/-0.506 $\chi^2$/NDF: 269109.9/17

Left In: 1739.190+/-0.758 $\chi^2$/NDF:291.5/2

Left: 1739.291+/-0.524 $\chi^2$/NDF: 747.6/6

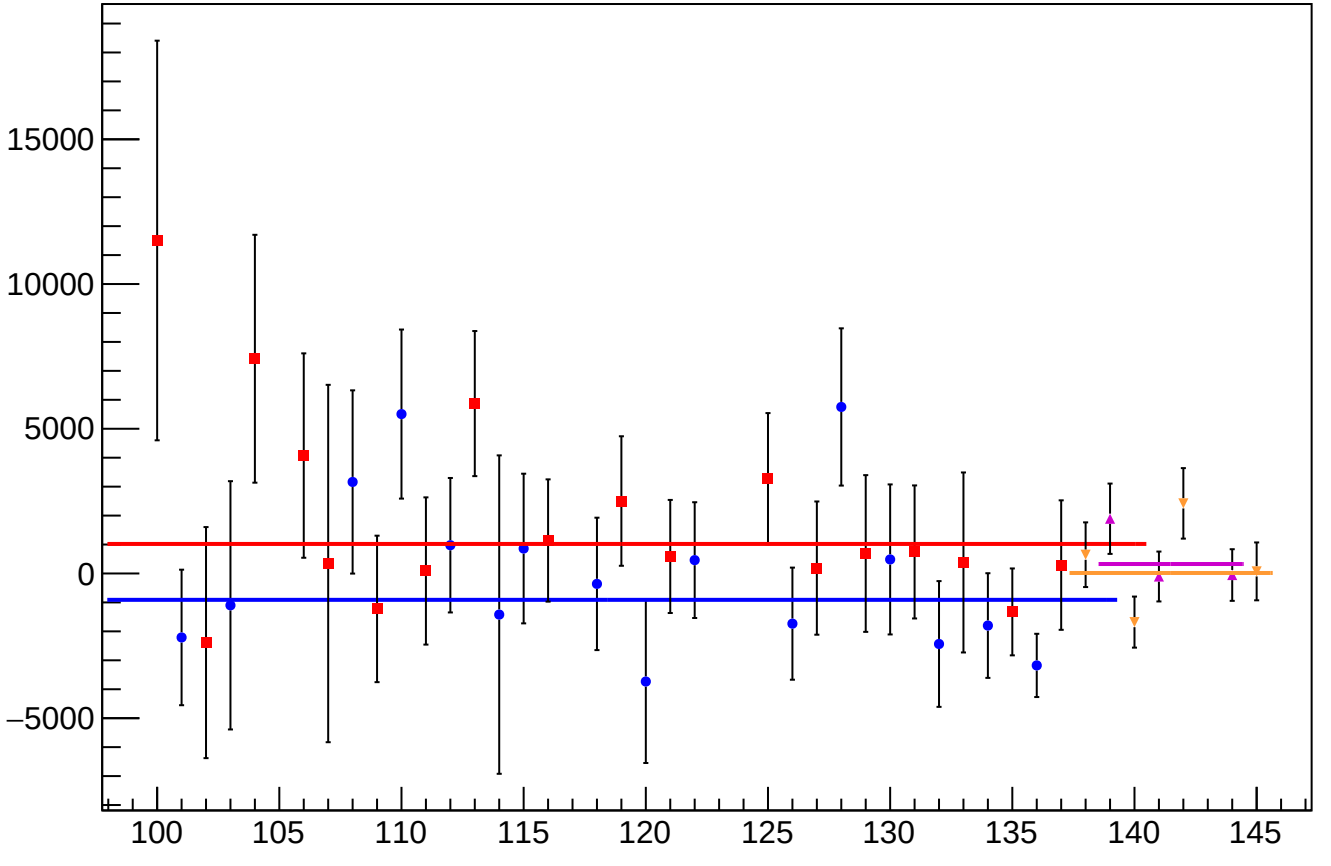
Right: 1881.894+/-0.356 $\chi^2$/NDF: 946264.6/33

In: 1826.948+/-0.419 $\chi^2$/NDF:694563.1/18

Out: 1846.480+/-0.415 $\chi^2$/NDF:301992.9/21

All: 1836.799+/-0.295 $\chi^2$/NDF: 997654.4/40

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: 17.186+/-515.673 $\chi^2$/NDF:7.9/3

Right Out: 1020.123+/-591.599 $\chi^2$/NDF: 14.9/17

Left In: 326.946+/-552.016 $\chi^2$/NDF:2.1/2

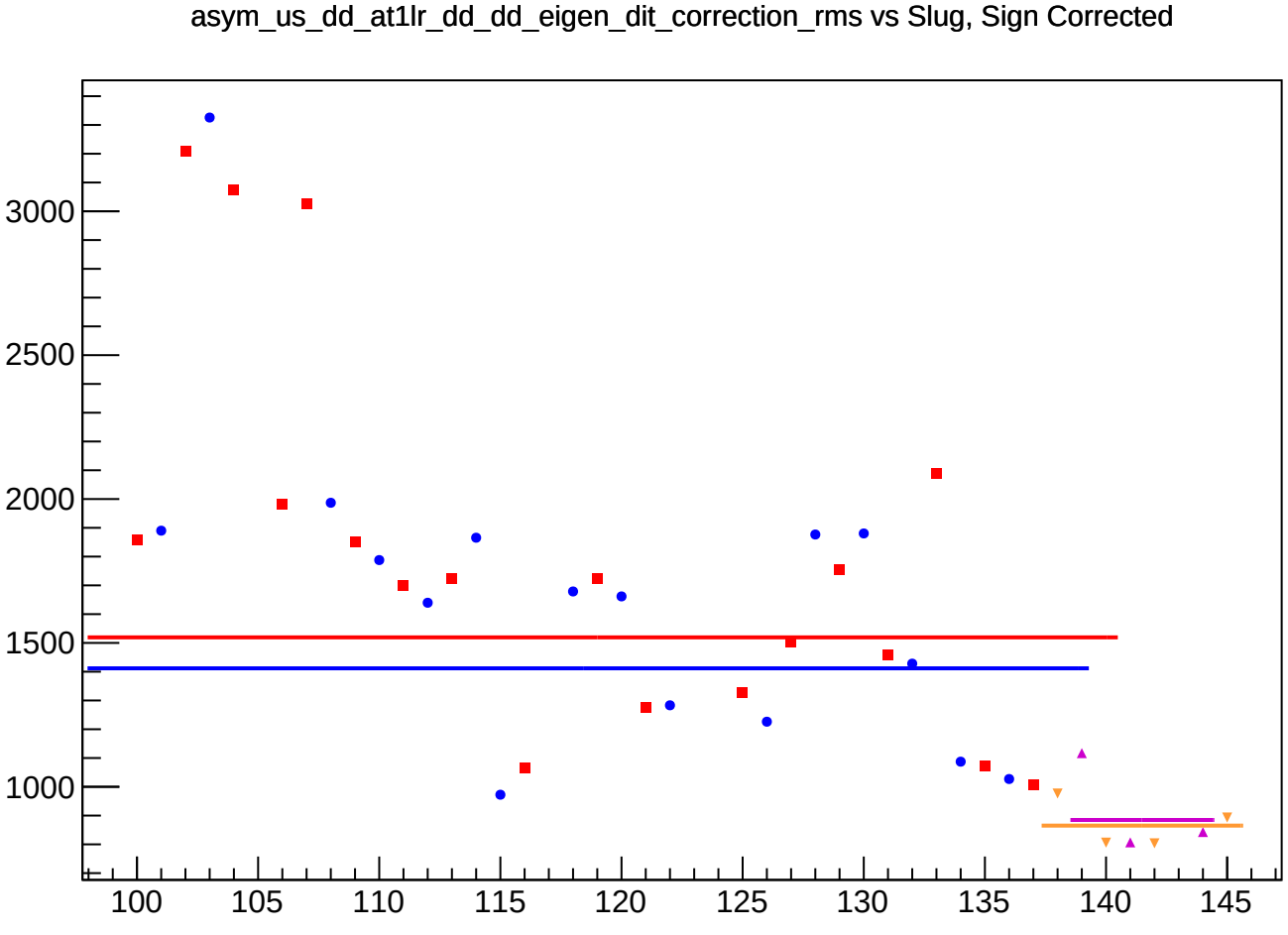
Left: 161.534+/-376.829 $\chi^2$/NDF: 10.2/6

Right: -14.230+/-403.141 $\chi^2$/NDF: 41.6/33

In: -293.328+/-389.916 $\chi^2$/NDF:25.6/18

Out: 450.204+/-388.726 $\chi^2$/NDF:24.5/21

All: 79.574+/-275.291 $\chi^2$/NDF: 51.9/40




Right In: 1411.745+/-0.389 $\chi^2$/NDF: 1177746.1/15

Left Out: 865.108+/-0.365 $\chi^2$/NDF:35588.2/3

Right Out: 1519.302+/-0.418 $\chi^2$/NDF: 1360150.0/17

Left In: 884.736+/-0.390 $\chi^2$/NDF:93845.7/2

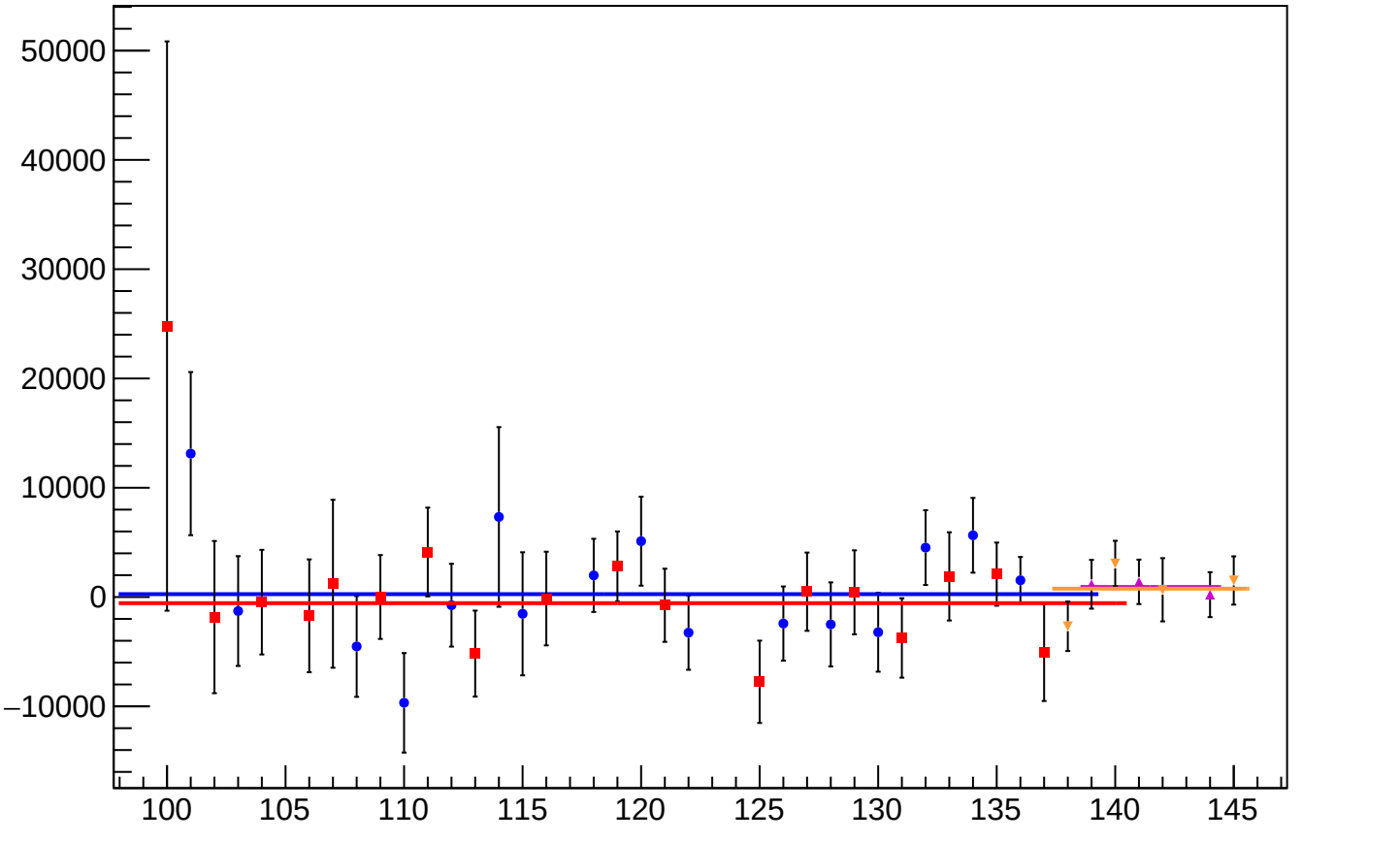
Left: 874.255+/-0.266 $\chi^2$/NDF: 130784.2/6

Right: 1461.691+/-0.285 $\chi^2$/NDF: 2573306.2/33

In: 1148.805+/-0.276 $\chi^2$/NDF:2184992.8/18

Out: 1147.557+/-0.275 $\chi^2$/NDF:2785460.7/21

All: 1148.179+/-0.195 $\chi^2$/NDF: 4970463.8/40




Right In: 264.383+/-941.979 $\chi^2$/NDF: 19.0/15

Left Out: 767.600+/-1153.869 $\chi^2$/NDF:3.7/3

Right Out: -560.962+/-962.943 $\chi^2$/NDF: 11.7/17

Left In: 916.328+/-1213.100 $\chi^2$/NDF:0.2/2

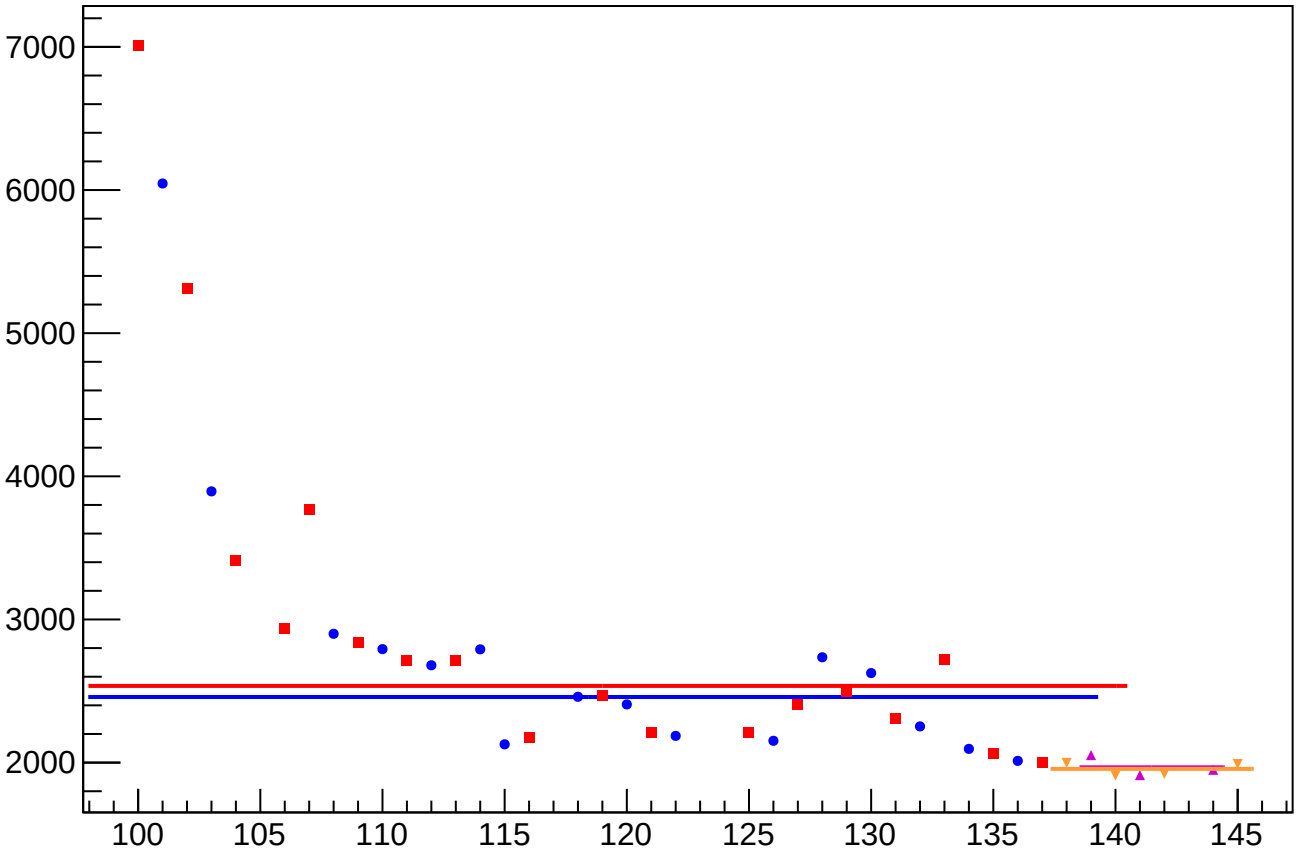
Left: 838.245+/-836.064 $\chi^2$/NDF: 3.8/6

Right: -139.208+/-673.369 $\chi^2$/NDF: 31.2/33

In: 509.615+/-744.012 $\chi^2$/NDF:19.4/18

Out: -15.544+/-739.317 $\chi^2$/NDF:16.2/21

All: 245.373+/-524.428 $\chi^2$/NDF: 35.8/40




Right In: 2458.332+/-0.666 $\chi^2$/NDF: 832888.7/15

Left Out: 1956.347+/-0.816 $\chi^2$/NDF:2461.1/3

Right Out: 2535.782+/-0.681 $\chi^2$/NDF: 673337.1/17

Left In: 1967.046+/-0.858 $\chi^2$/NDF:4499.8/2

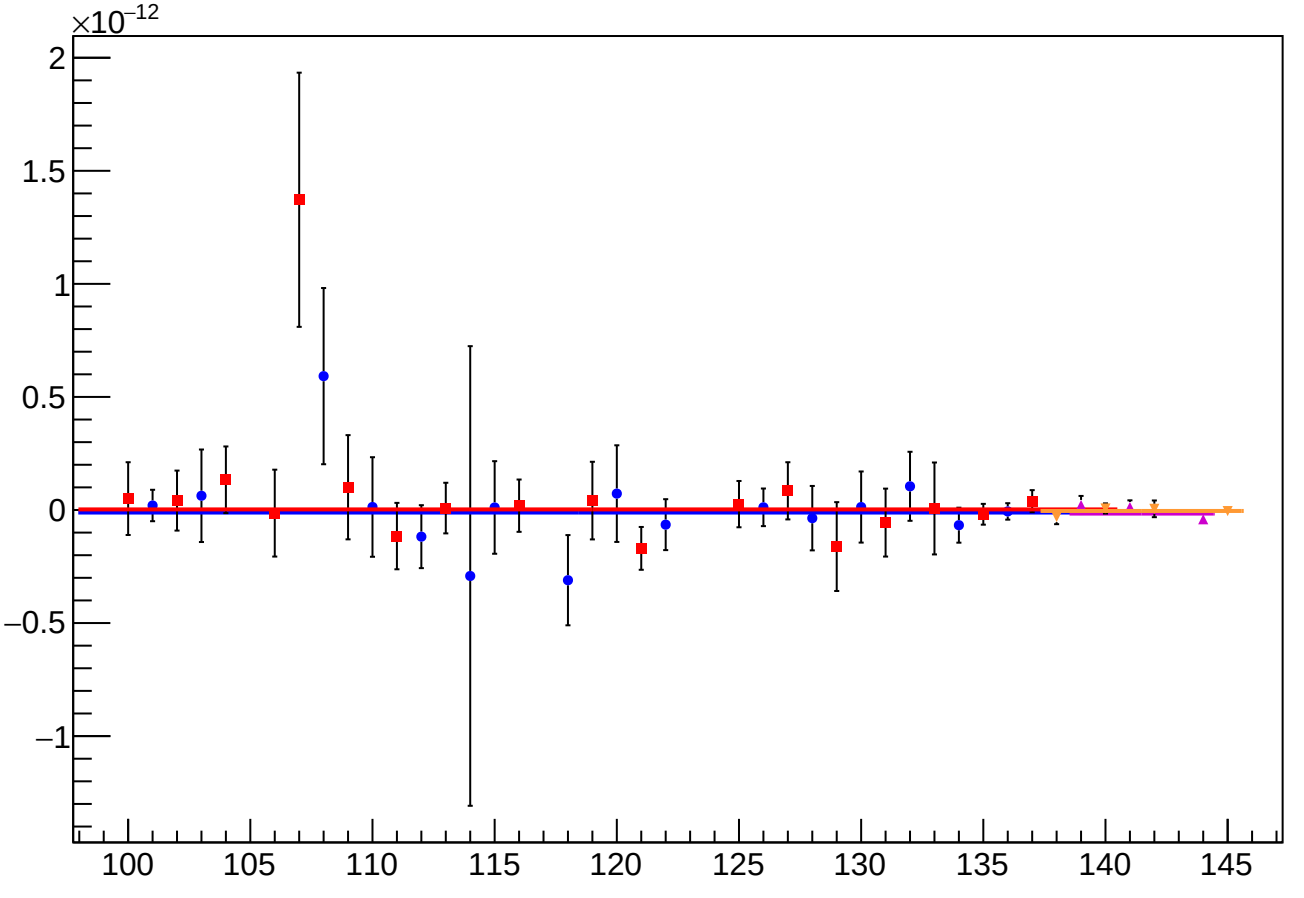
Left: 1961.429+/-0.591 $\chi^2$/NDF: 7042.6/6

Right: 2496.205+/-0.476 $\chi^2$/NDF: 1512837.3/33

In: 2273.532+/-0.526 $\chi^2$/NDF:1042024.3/18

Out: 2297.906+/-0.523 $\chi^2$/NDF:973093.1/21

All: 2285.796+/-0.371 $\chi^2$/NDF: 2016197.5/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 7.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.1/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.3/2

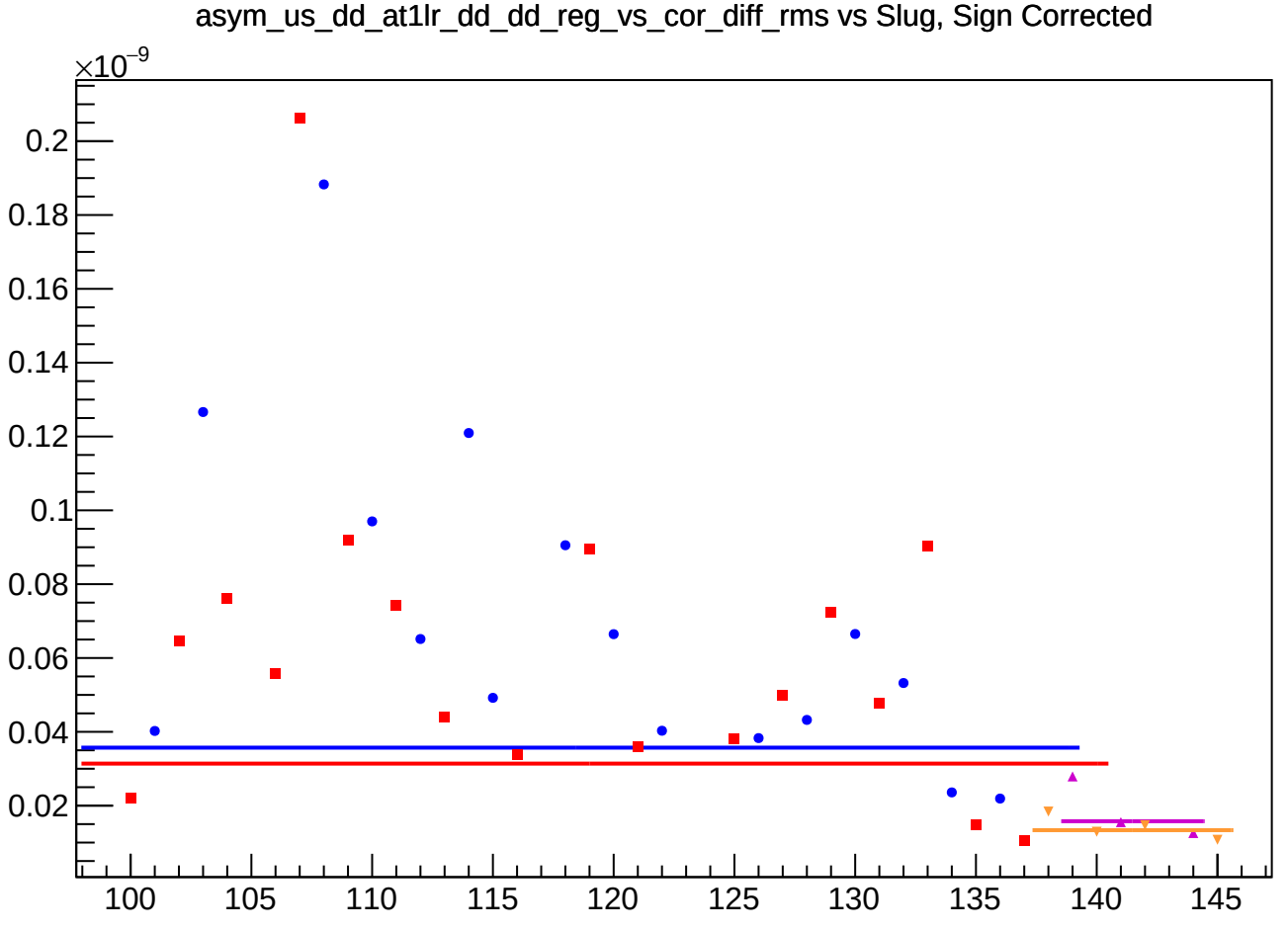
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.7/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 20.7/33

In: -0.000+/-0.000 $\chi^2$/NDF:10.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:14.3/21

All: -0.000+/-0.000 $\chi^2$/NDF: 25.4/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1620217.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:82739.6/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2068272.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:230972.6/2

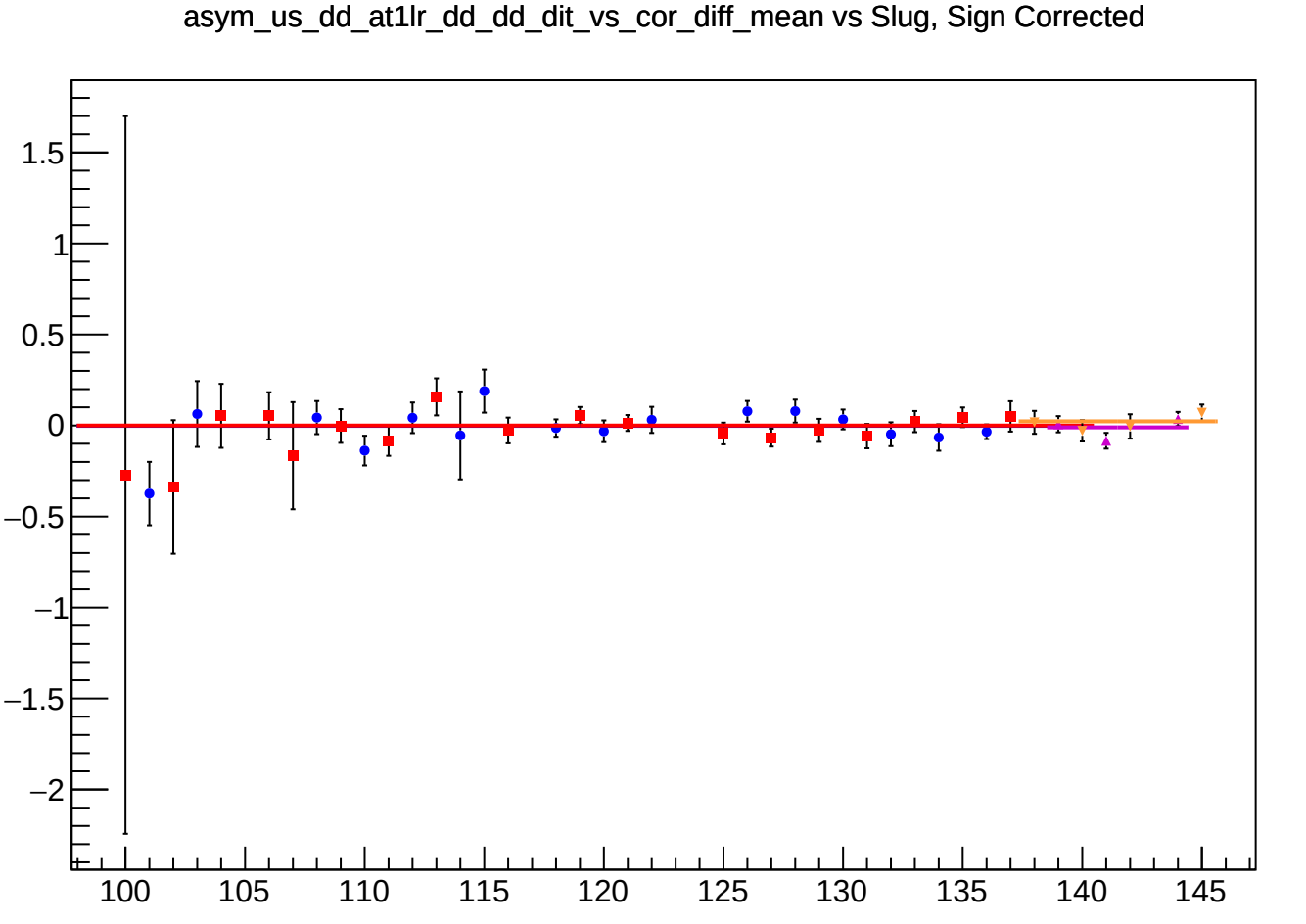
Left: 0.000+/-0.000 $\chi^2$/NDF: 341762.3/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 3719751.0/33

In: 0.000+/-0.000 $\chi^2$/NDF:2786885.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2998231.8/21

All: 0.000+/-0.000 $\chi^2$/NDF: 5896146.4/40




Right In: -0.002+/-0.017 $\chi^2$/NDF: 17.1/15

Left Out: 0.023+/-0.028 $\chi^2$/NDF:2.1/3

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: -0.010+/-0.024 $\chi^2$/NDF:4.4/2

Left: 0.004+/-0.018 $\chi^2$/NDF: 7.3/6

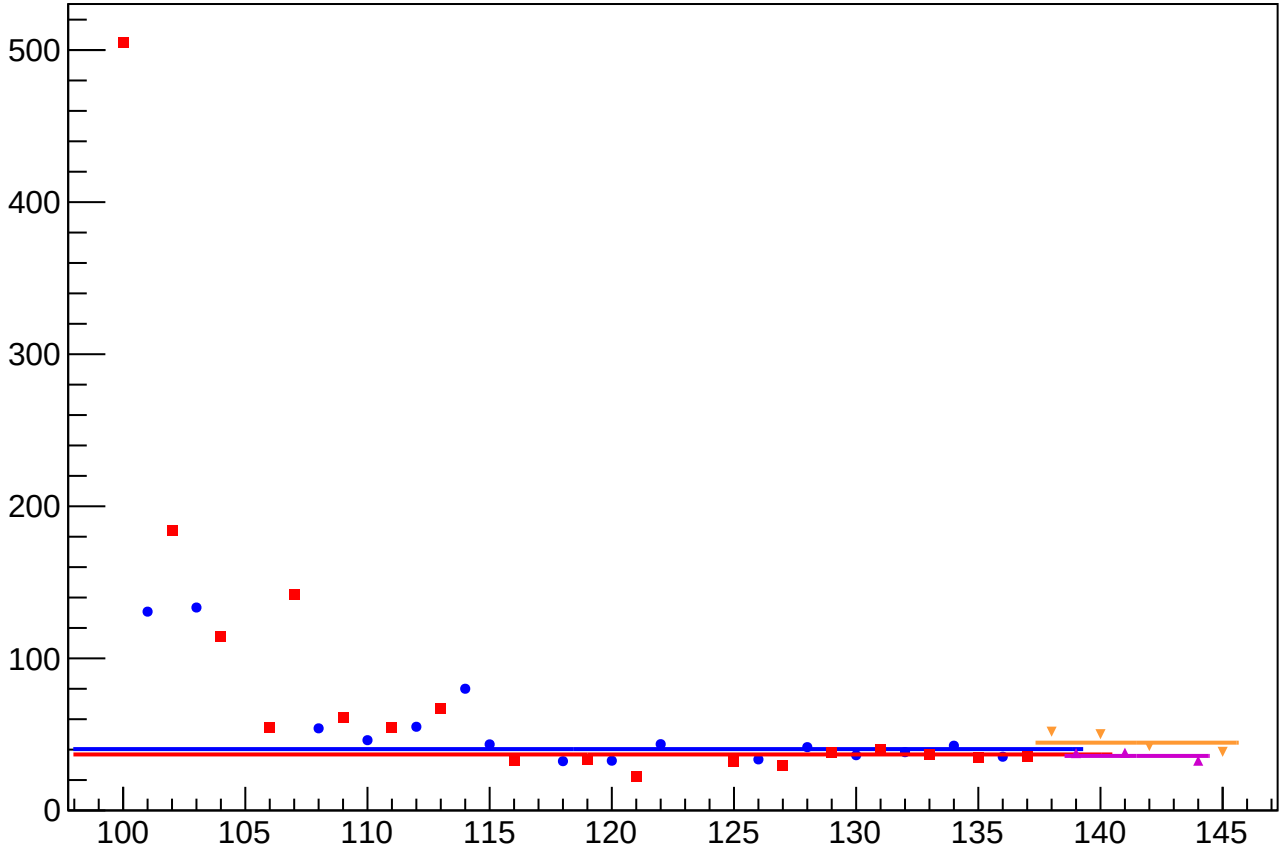
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: -0.005+/-0.014 $\chi^2$/NDF:21.6/18

Out: 0.006+/-0.014 $\chi^2$/NDF:13.5/21

All: 0.000+/-0.010 $\chi^2$/NDF: 35.4/40

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.352+/-0.012 $\chi^2$/NDF: 1410137.1/15

Left Out: 44.575+/-0.020 $\chi^2$/NDF:82477.4/3

Right Out: 36.825+/-0.012 $\chi^2$/NDF: 1837124.6/17

Left In: 35.858+/-0.017 $\chi^2$/NDF:21162.6/2

Left: 39.573+/-0.013 $\chi^2$/NDF: 213582.4/6

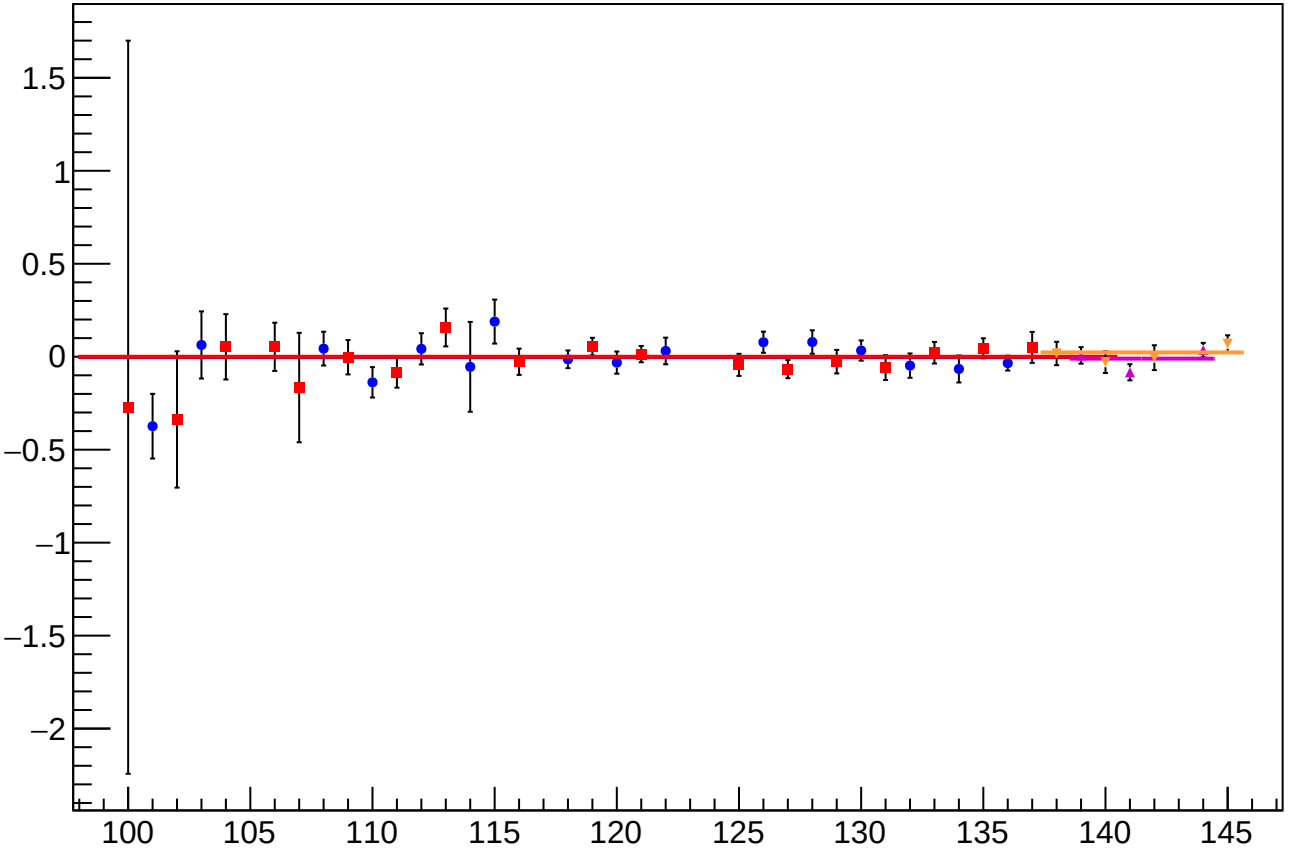
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290942.4/33

In: 38.863+/-0.010 $\chi^2$/NDF:1477146.2/18

Out: 38.835+/-0.010 $\chi^2$/NDF:2031775.4/21

All: 38.849+/-0.007 $\chi^2$/NDF: 3508925.6/40

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: 0.023+/-0.028 $\chi^2$/NDF:2.1/3

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: -0.010+/-0.024 $\chi^2$/NDF:4.4/2

Left: 0.004+/-0.018 $\chi^2$/NDF: 7.3/6

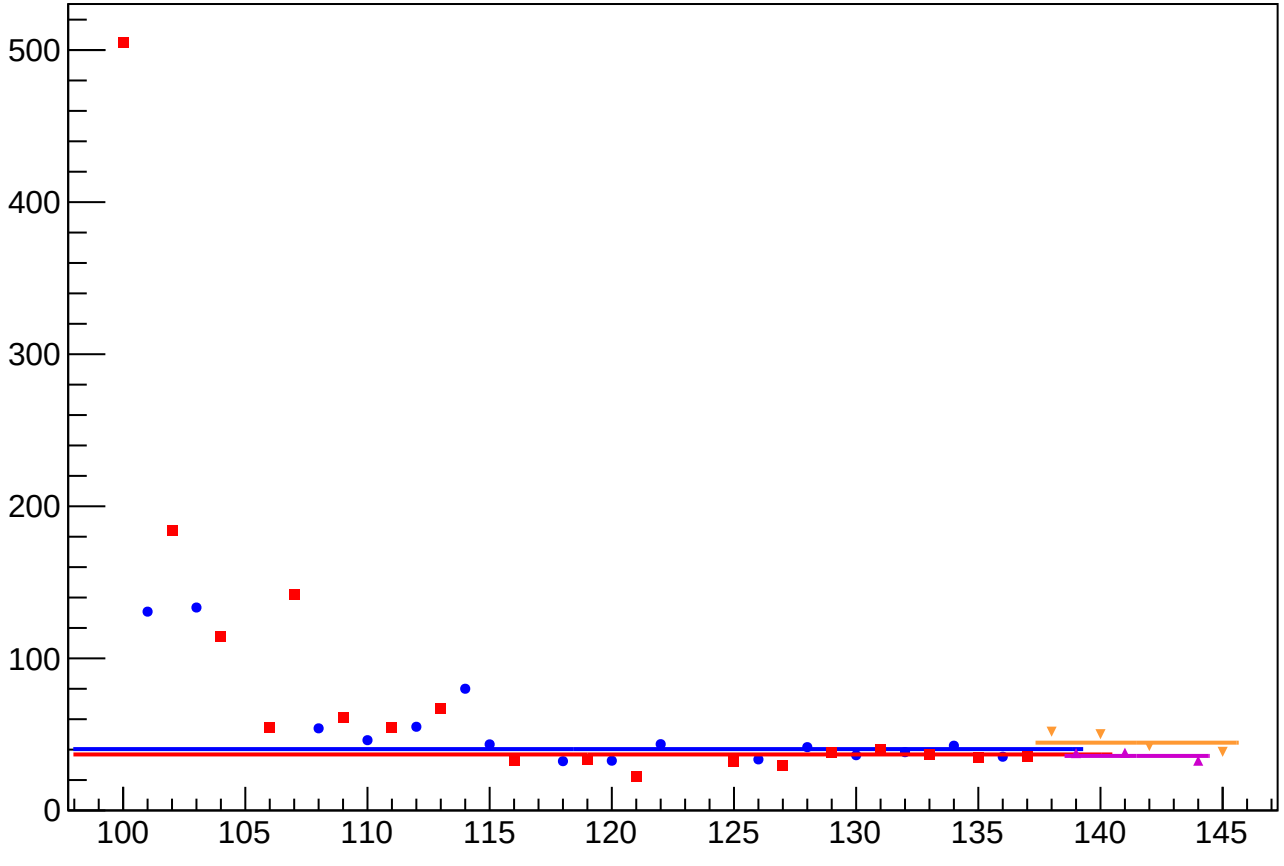
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: -0.005+/-0.014 $\chi^2$/NDF:21.6/18

Out: 0.006+/-0.014 $\chi^2$/NDF:13.5/21

All: 0.000+/-0.010 $\chi^2$/NDF: 35.4/40

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: 44.575+/-0.020 $\chi^2$/NDF:82477.4/3

Right Out: 36.825+/-0.012 $\chi^2$/NDF: 1837124.6/17

Left In: 35.858+/-0.017 $\chi^2$/NDF:21162.6/2

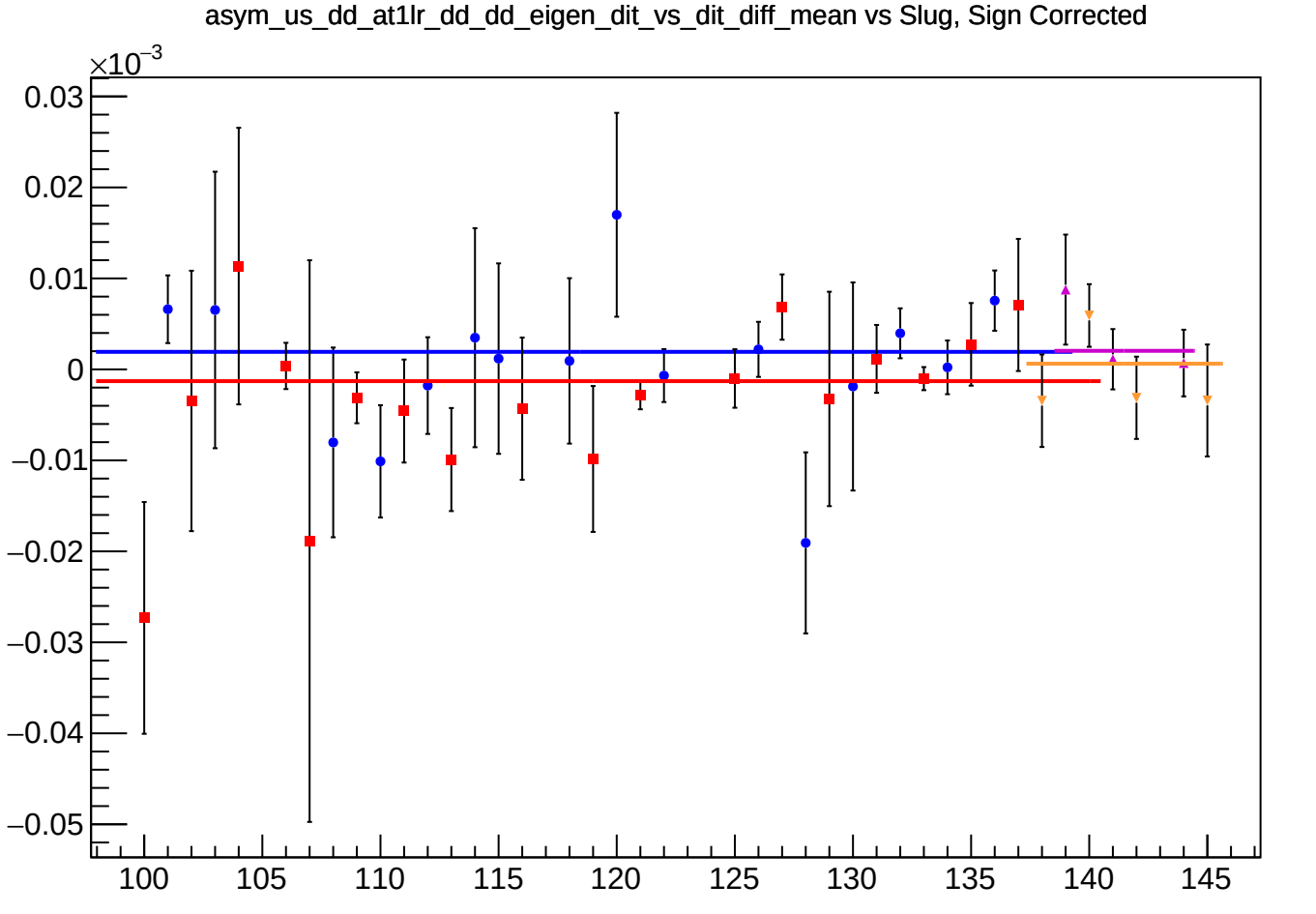
Left: 39.573+/-0.013 $\chi^2$/NDF: 213582.4/6

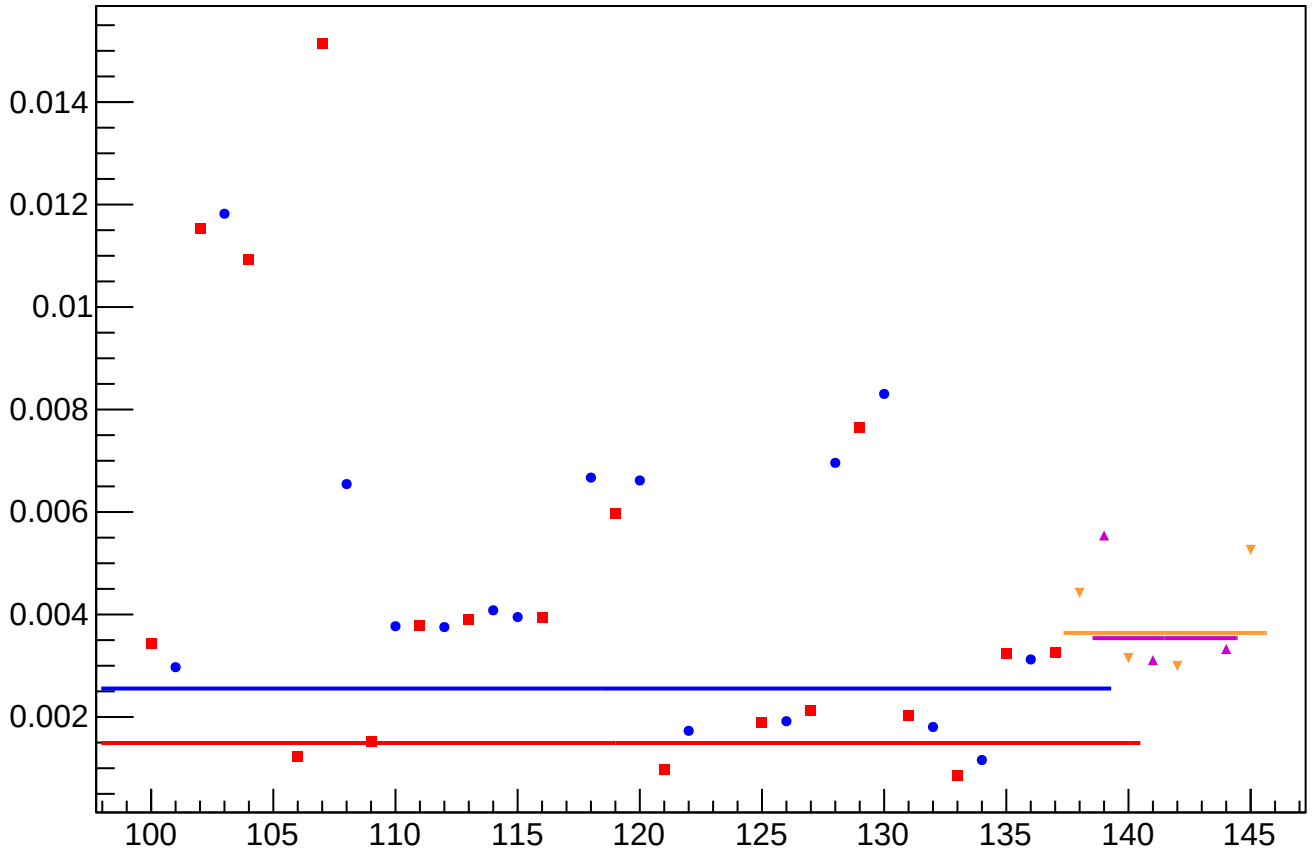
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290942.4/33

In: 38.863+/-0.010 $\chi^2$/NDF:1477146.2/18

Out: 38.835+/-0.010 $\chi^2$/NDF:2031775.4/21

All: 38.849+/-0.007 $\chi^2$/NDF: 3508925.6/40


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 17.9/15
Left Out: 0.000+/-0.000 χ²/NDF:4.1/3
Right Out: -0.000+/-0.000 χ²/NDF: 18.9/17
Left In: 0.000+/-0.000 χ²/NDF:1.5/2
Left: 0.000+/-0.000 χ²/NDF: 5.8/6
Right: -0.000+/-0.000 χ²/NDF: 42.3/33
In: 0.000+/-0.000 χ²/NDF:19.3/18
Out: -0.000+/-0.000 χ²/NDF:23.7/21
All: -0.000+/-0.000 χ²/NDF: 49.0/40




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3782362.0/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:267440.2/3

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5561830.1/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:259980.6/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 529472.6/6

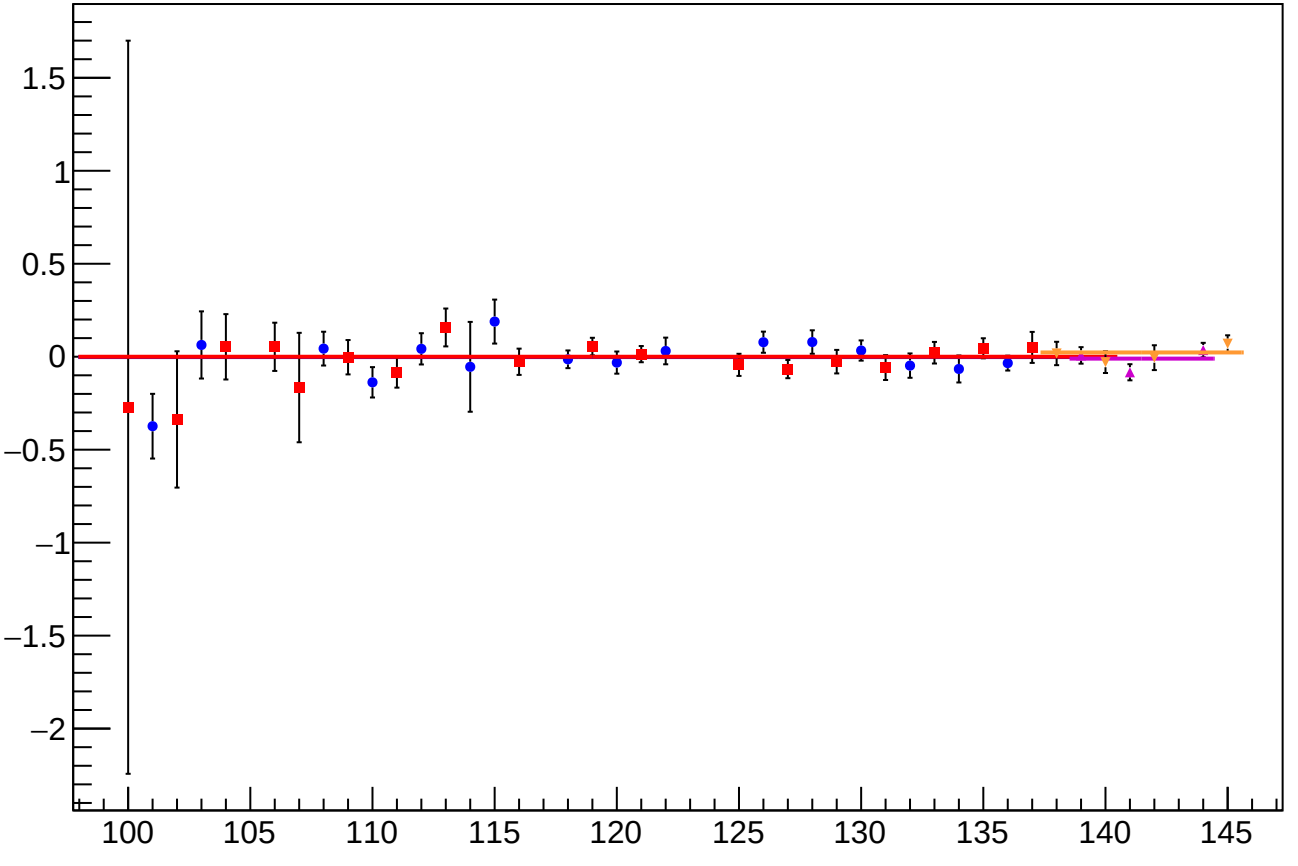
Right: 0.002+/-0.000 $\chi^2$/NDF: 10553457.3/33

In: 0.003+/-0.000 $\chi^2$/NDF:4340259.1/18

Out: 0.002+/-0.000 $\chi^2$/NDF:7476481.0/21

All: 0.002+/-0.000 $\chi^2$/NDF: 13222627.2/40

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: 0.023+/-0.028 $\chi^2$/NDF:2.1/3

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: -0.010+/-0.024 $\chi^2$/NDF:4.4/2

Left: 0.004+/-0.018 $\chi^2$/NDF: 7.3/6

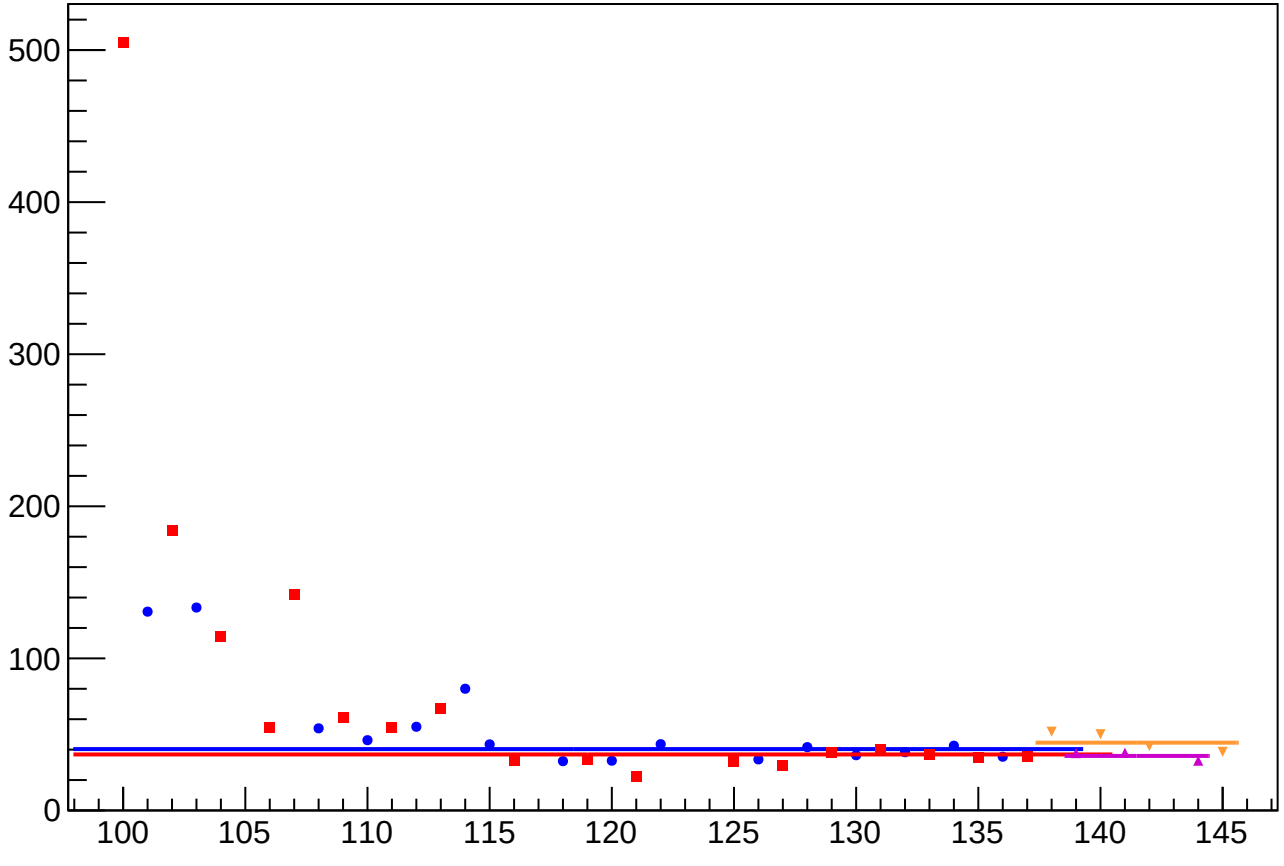
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: -0.005+/-0.014 $\chi^2$/NDF:21.6/18

Out: 0.006+/-0.014 $\chi^2$/NDF:13.5/21

All: 0.000+/-0.010 $\chi^2$/NDF: 35.4/40

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: 44.574+/-0.020 $\chi^2$/NDF:82484.1/3

Right Out: 36.824+/-0.012 $\chi^2$/NDF: 1837118.8/17

Left In: 35.858+/-0.017 $\chi^2$/NDF:21162.7/2

Left: 39.573+/-0.013 $\chi^2$/NDF: 213582.1/6

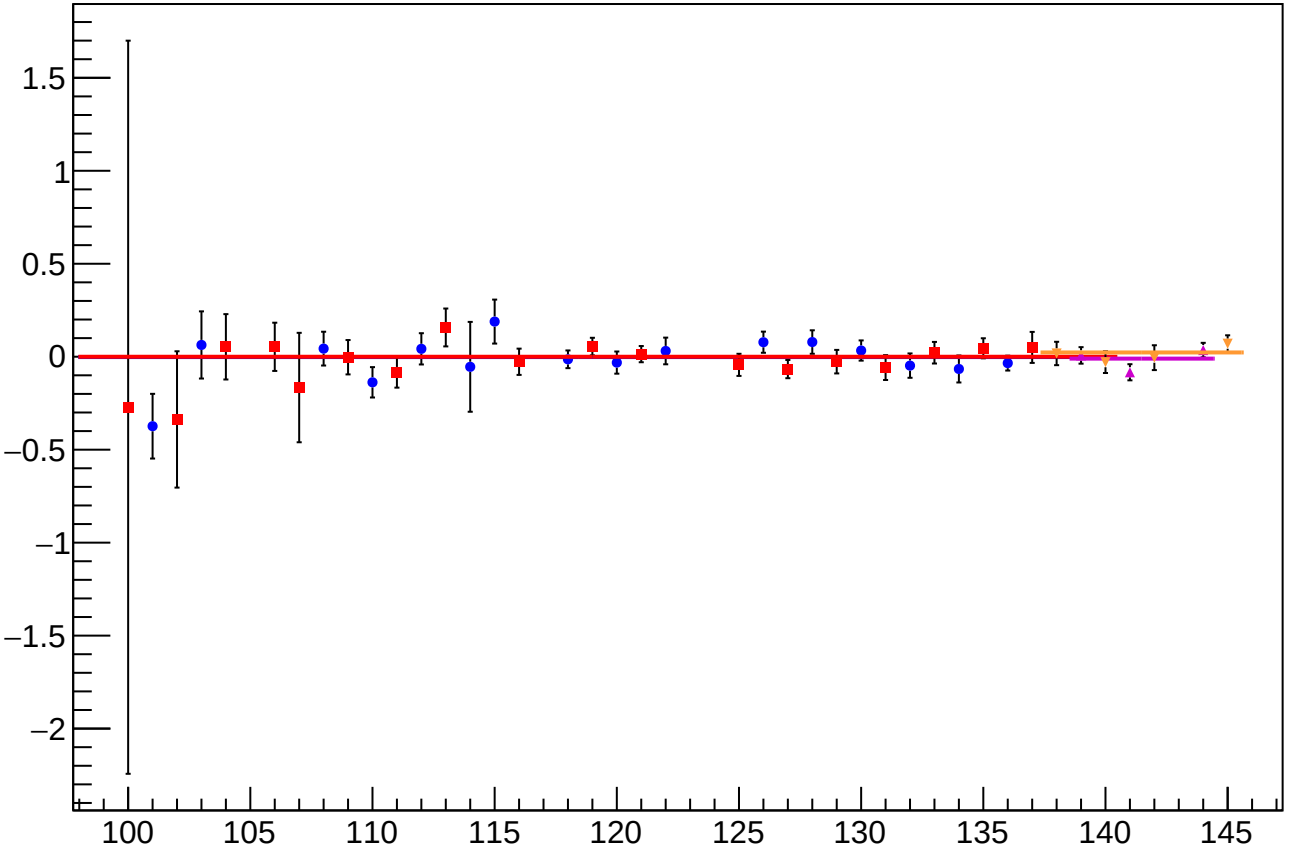
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290871.7/33

In: 38.863+/-0.010 $\chi^2$/NDF:1477057.2/18

Out: 38.834+/-0.010 $\chi^2$/NDF:2031794.1/21

All: 38.849+/-0.007 $\chi^2$/NDF: 3508855.6/40

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: 0.023+/-0.028 $\chi^2$/NDF:2.1/3

Right Out: -0.000+/-0.017 $\chi^2$/NDF: 10.9/17

Left In: -0.010+/-0.024 $\chi^2$/NDF:4.4/2

Left: 0.004+/-0.018 $\chi^2$/NDF: 7.3/6

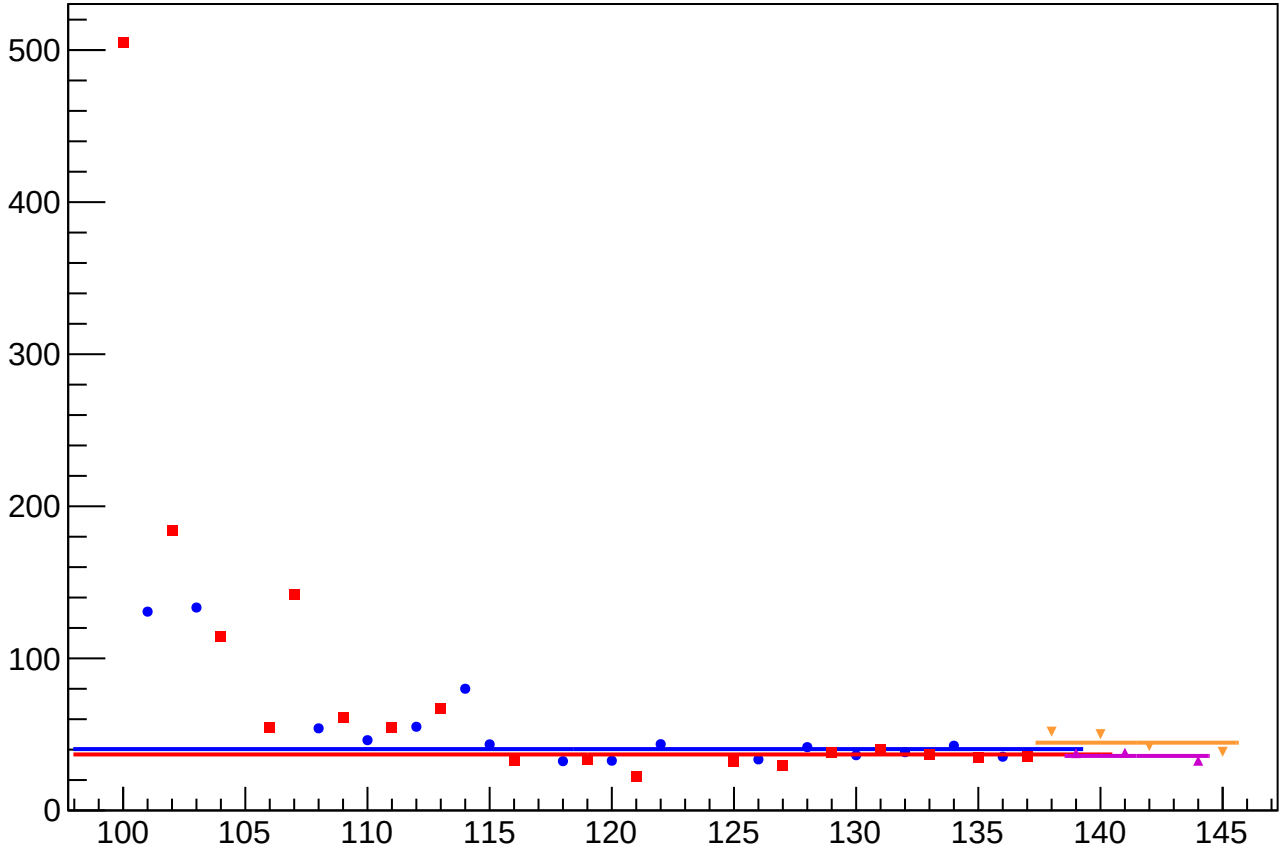
Right: -0.001+/-0.012 $\chi^2$/NDF: 28.0/33

In: -0.005+/-0.014 $\chi^2$/NDF:21.6/18

Out: 0.006+/-0.014 $\chi^2$/NDF:13.5/21

All: 0.000+/-0.010 $\chi^2$/NDF: 35.4/40

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: 44.574+/-0.020 $\chi^2$/NDF:82484.1/3

Right Out: 36.824+/-0.012 $\chi^2$/NDF: 1837118.8/17

Left In: 35.858+/-0.017 $\chi^2$/NDF:21162.7/2

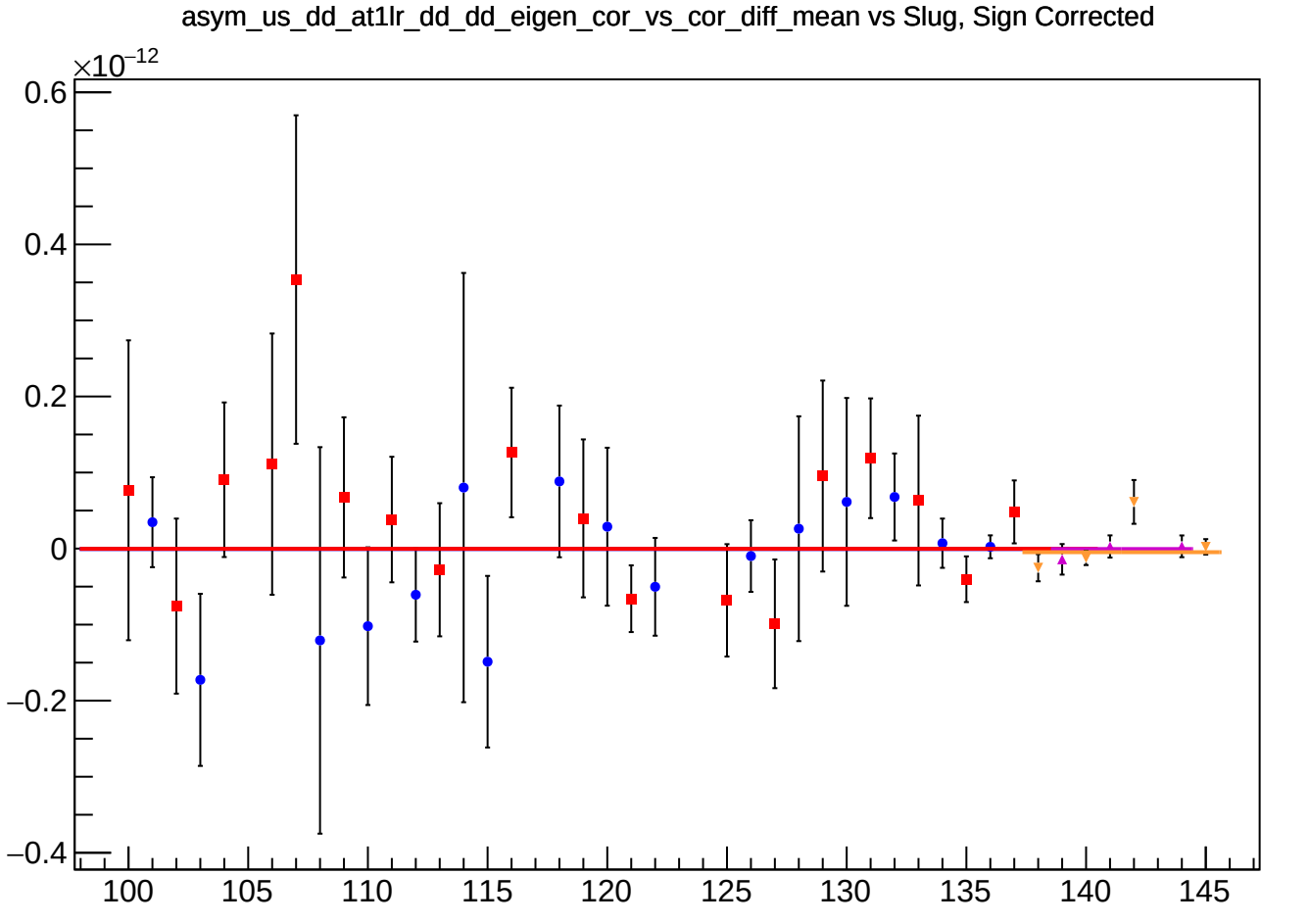
Left: 39.573+/-0.013 $\chi^2$/NDF: 213582.1/6

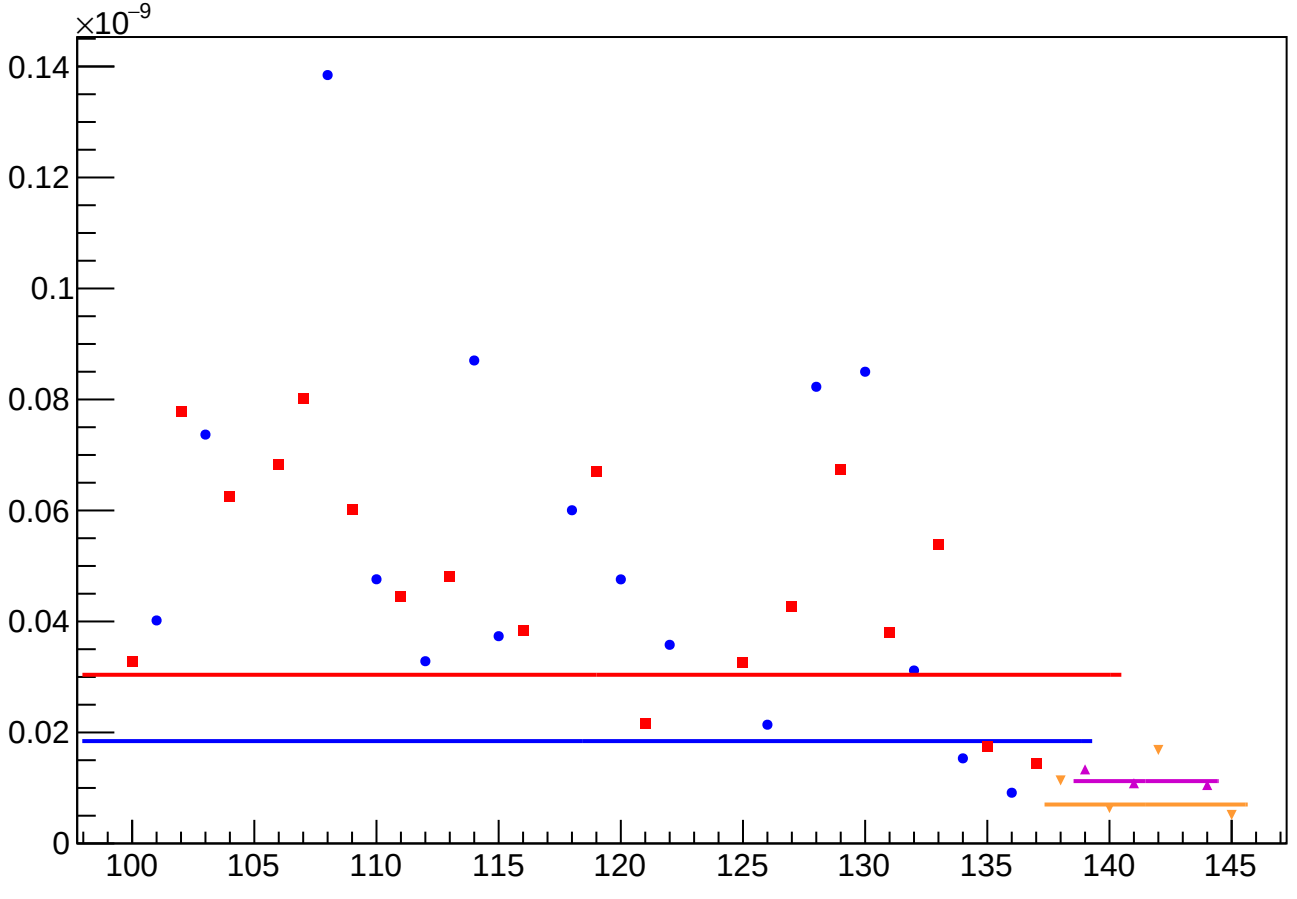
Right: 38.545+/-0.008 $\chi^2$/NDF: 3290871.7/33

In: 38.863+/-0.010 $\chi^2$/NDF:1477057.2/18

Out: 38.834+/-0.010 $\chi^2$/NDF:2031794.1/21

All: 38.849+/-0.007 $\chi^2$/NDF: 3508855.6/40


asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.6
0.4
0.2
0
−0.2
−0.4
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 9.9/15
Left Out: -0.000+/-0.000 χ²/NDF:7.7/3
Right Out: -0.000+/-0.000 χ²/NDF: 18.4/17
Left In: -0.000+/-0.000 χ²/NDF:0.6/2
Left: -0.000+/-0.000 χ²/NDF: 8.4/6
Right: -0.000+/-0.000 χ²/NDF: 28.2/33
In: -0.000+/-0.000 χ²/NDF:10.5/18
Out: -0.000+/-0.000 χ²/NDF:26.1/21
All: -0.000+/-0.000 χ²/NDF: 36.7/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4022915.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:428837.6/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2387224.9/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:28411.6/2

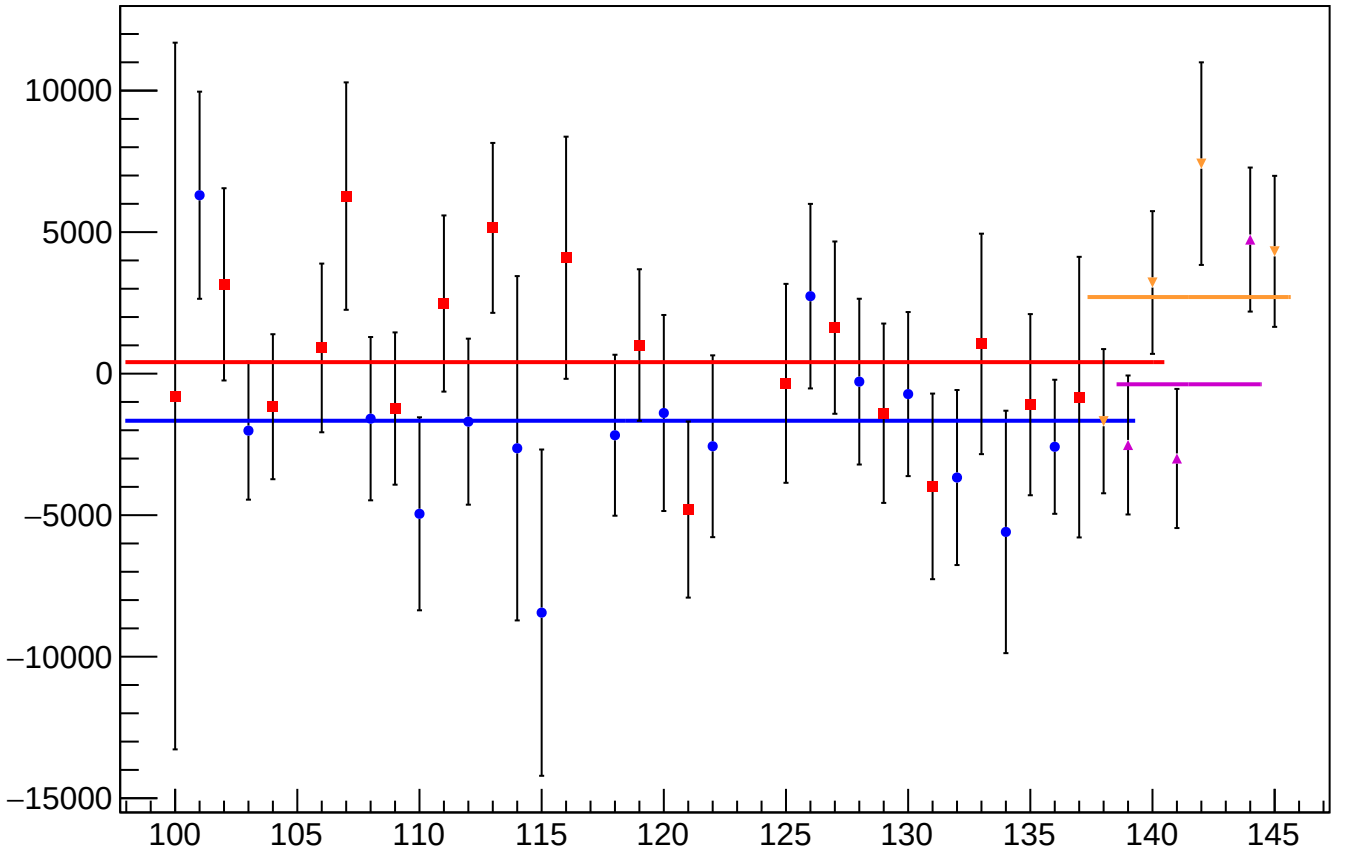
Left: 0.000+/-0.000 $\chi^2$/NDF: 747687.0/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 7115915.8/33

In: 0.000+/-0.000 $\chi^2$/NDF:4531423.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:6334170.0/21

All: 0.000+/-0.000 $\chi^2$/NDF: 11238123.8/40




Right In: -1664.305+/-792.164 $\chi^2$/NDF: 10.8/15

Left Out: 2706.149+/-1373.700 $\chi^2$/NDF:5.1/3

Right Out: 406.847+/-777.158 $\chi^2$/NDF: 12.7/17

Left In: -375.789+/-1434.623 $\chi^2$/NDF:5.9/2

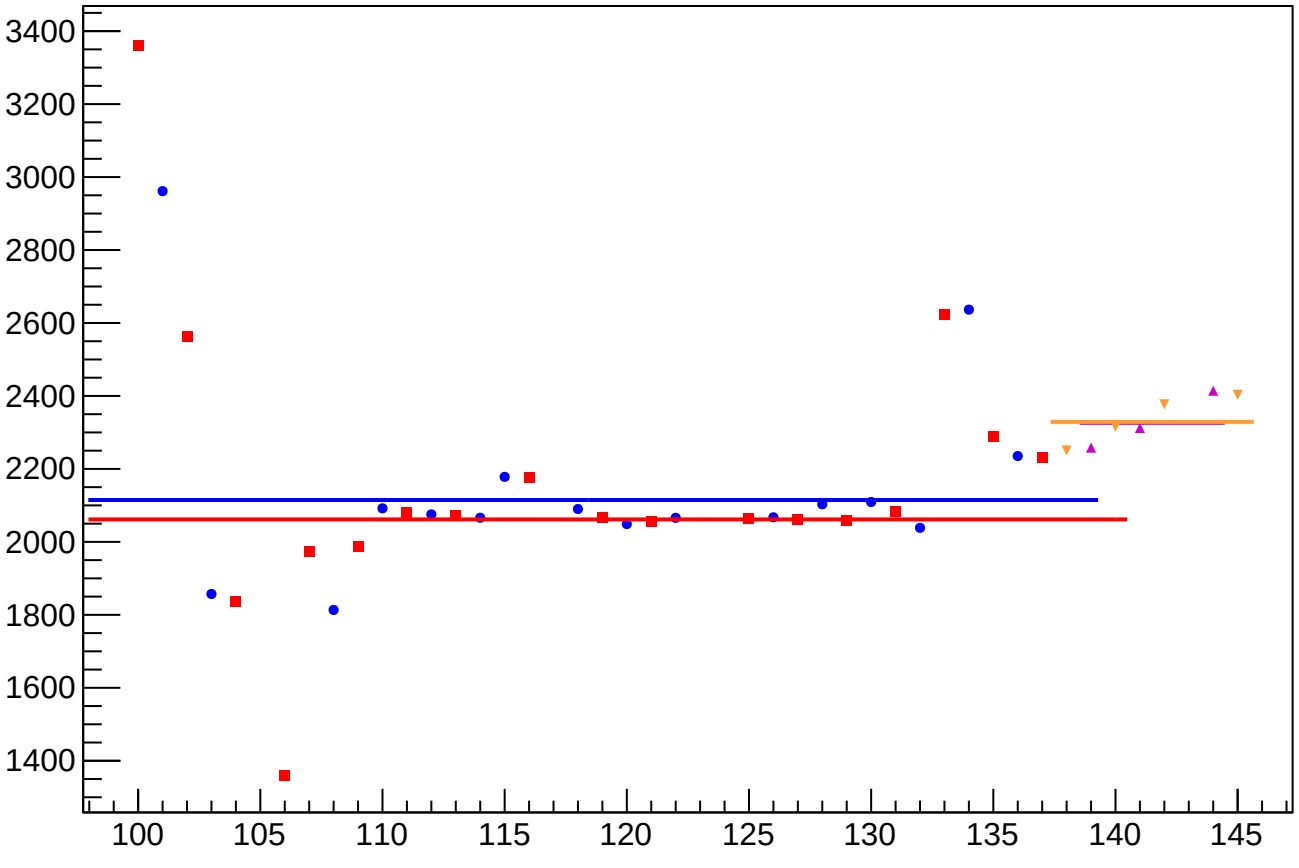
Left: 1232.008+/-992.191 $\chi^2$/NDF: 13.5/6

Right: -608.927+/-554.763 $\chi^2$/NDF: 27.0/33

In: -1363.235+/-693.468 $\chi^2$/NDF:17.3/18

Out: 964.336+/-676.413 $\chi^2$/NDF:20.0/21

All: -170.475+/-484.214 $\chi^2$/NDF: 43.1/40




Right In: 2114.755+/-0.560 $\chi^2$/NDF: 189920.6/15

Left Out: 2328.945+/-0.971 $\chi^2$/NDF:3864.8/3

Right Out: 2061.560+/-0.550 $\chi^2$/NDF: 249186.6/17

Left In: 2326.340+/-1.014 $\chi^2$/NDF:3987.0/2

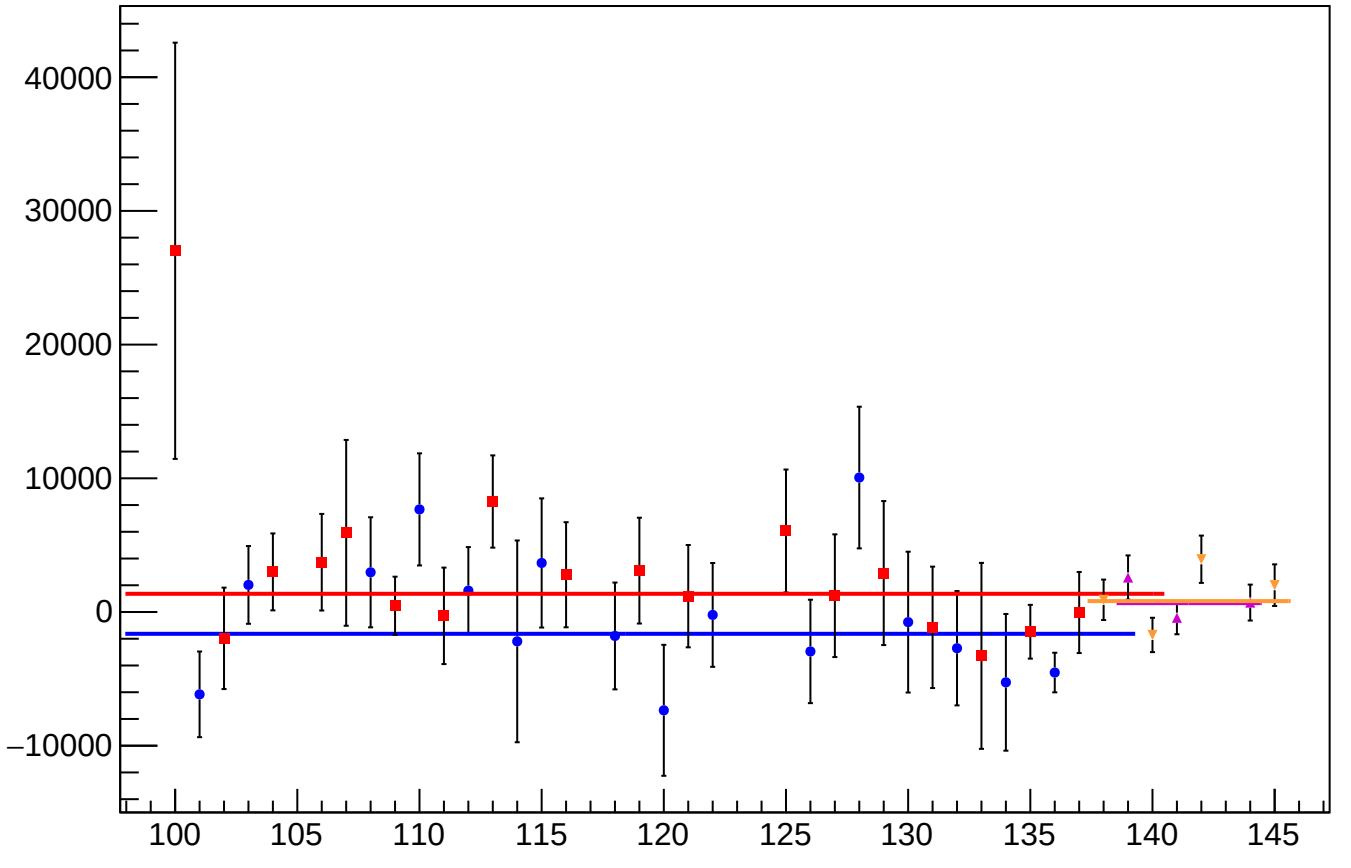
Left: 2327.699+/-0.702 $\chi^2$/NDF: 7855.3/6

Right: 2087.649+/-0.392 $\chi^2$/NDF: 443702.7/33

In: 2164.193+/-0.490 $\chi^2$/NDF:227246.0/18

Out: 2126.390+/-0.478 $\chi^2$/NDF:310453.6/21

All: 2144.821+/-0.342 $\chi^2$/NDF: 540745.3/40




Right In: -1630.474+/-862.417 $\chi^2$/NDF: 22.9/15

Left Out: 816.514+/-750.609 $\chi^2$/NDF:7.6/3

Right Out: 1361.841+/-840.417 $\chi^2$/NDF: 13.5/17

Left In: 664.026+/-796.589 $\chi^2$/NDF:2.1/2

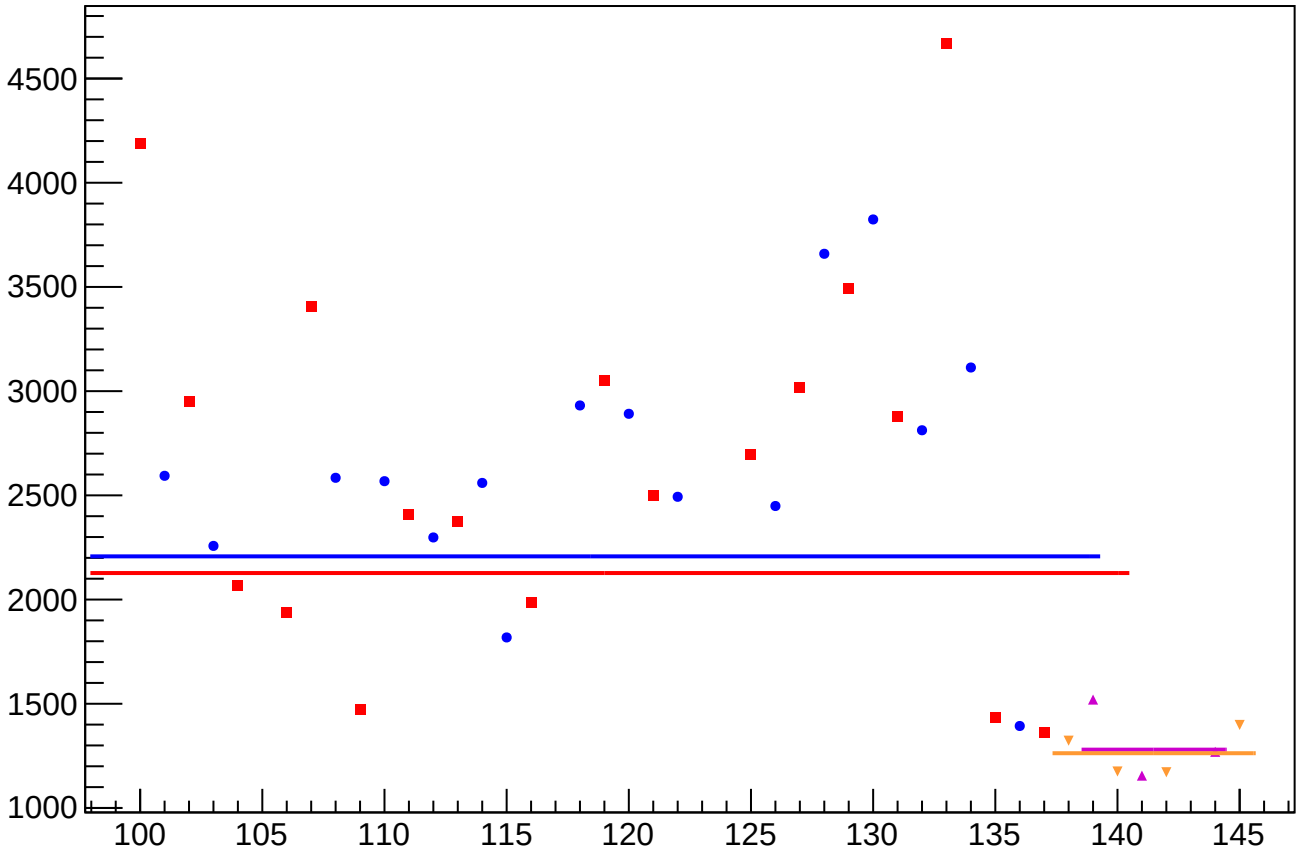
Left: 744.798+/-546.293 $\chi^2$/NDF: 9.7/6

Right: -95.664+/-601.892 $\chi^2$/NDF: 42.5/33

In: -392.323+/-585.163 $\chi^2$/NDF:28.8/18

Out: 1058.493+/-559.829 $\chi^2$/NDF:21.3/21

All: 365.170+/-404.519 $\chi^2$/NDF: 53.3/40




Right In: 2207.254+/-0.610 $\chi^2$/NDF: 1249266.5/15

Left Out: 1262.679+/-0.531 $\chi^2$/NDF:32988.5/3

Right Out: 2127.224+/-0.594 $\chi^2$/NDF: 1458046.9/17

Left In: 1279.800+/-0.563 $\chi^2$/NDF:62659.1/2

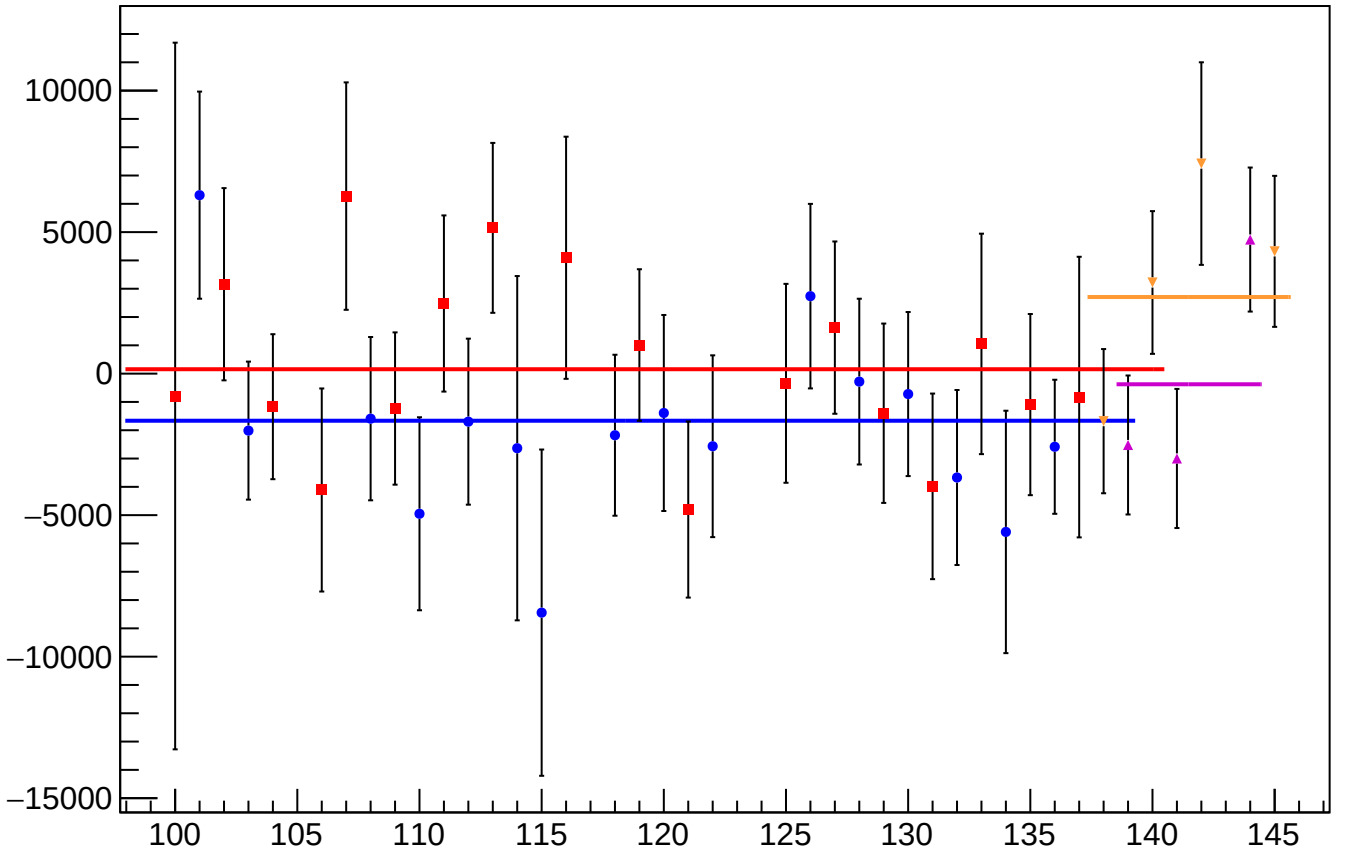
Left: 1270.731+/-0.386 $\chi^2$/NDF: 96137.1/6

Right: 2166.205+/-0.426 $\chi^2$/NDF: 2716147.2/33

In: 1706.784+/-0.414 $\chi^2$/NDF:2560071.4/18

Out: 1646.306+/-0.396 $\chi^2$/NDF:2668367.9/21

All: 1675.207+/-0.286 $\chi^2$/NDF: 5239593.7/40




Right In: -1664.231+/-792.164 $\chi^2$/NDF: 10.8/15

Left Out: 2706.397+/-1373.700 $\chi^2$/NDF:5.1/3

Right Out: 155.775+/-785.481 $\chi^2$/NDF: 14.2/17

Left In: -375.933+/-1434.623 $\chi^2$/NDF:5.9/2

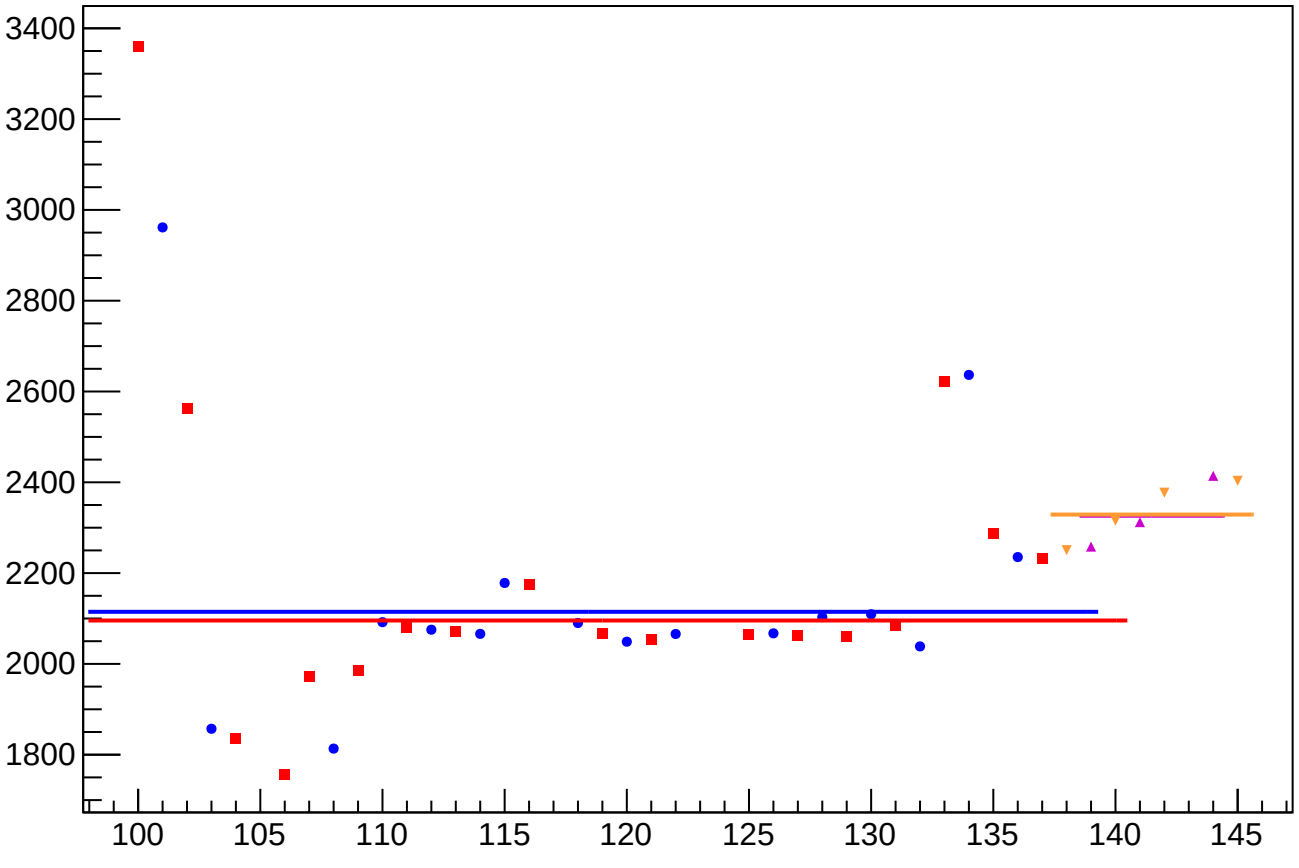
Left: 1232.068+/-992.191 $\chi^2$/NDF: 13.5/6

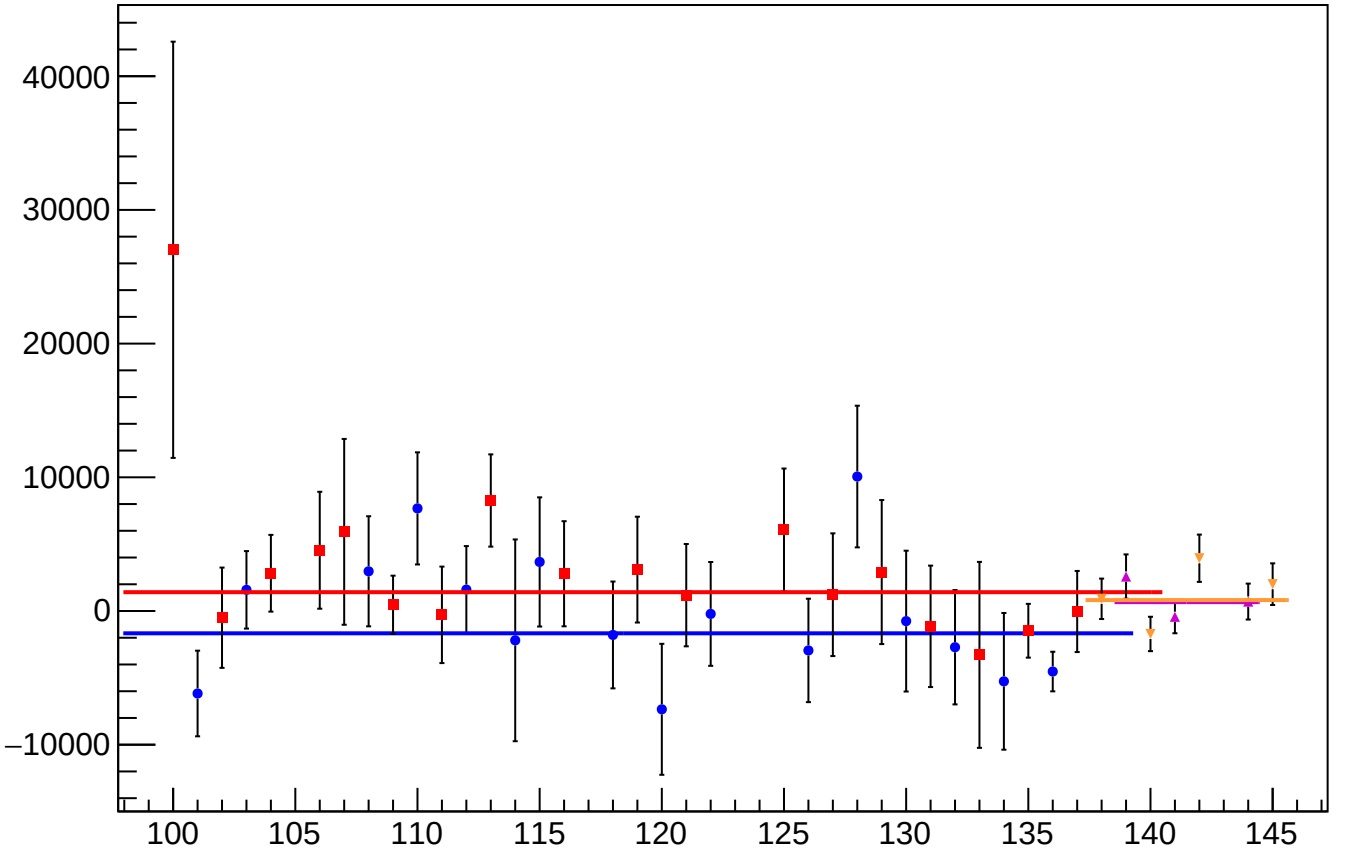
Right: -746.519+/-557.767 $\chi^2$/NDF: 27.6/33

In: -1363.212+/-693.468 $\chi^2$/NDF:17.3/18

Out: 784.235+/-681.880 $\chi^2$/NDF:21.9/21

All: -271.395+/-486.207 $\chi^2$/NDF: 44.1/40


cor_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected
3400
3200
3000
2800
2600
2400
2200
2000
1800
100
105
110
115
120
125
130
135
140
145
Right In: 2114.755+/-0.560 χ²/NDF: 189920.9/15
Left Out: 2328.945+/-0.971 χ²/NDF:3864.8/3
Right Out: 2095.597+/-0.555 χ²/NDF: 149360.5/17
Left In: 2326.340+/-1.014 χ²/NDF:3987.0/2
Left: 2327.699+/-0.702 χ²/NDF: 7855.3/6
Right: 2105.095+/-0.394 χ²/NDF: 339871.2/33
In: 2164.193+/-0.490 χ²/NDF:227246.4/18
Out: 2153.092+/-0.482 χ²/NDF:196716.5/21
All: 2158.549+/-0.344 χ²/NDF: 424223.4/40




Right In: -1668.482+/-862.126 $\chi^2$/NDF: 22.5/15

Left Out: 816.363+/-750.623 $\chi^2$/NDF:7.6/3

Right Out: 1407.975+/-847.068 $\chi^2$/NDF: 13.0/17

Left In: 664.089+/-796.579 $\chi^2$/NDF:2.1/2

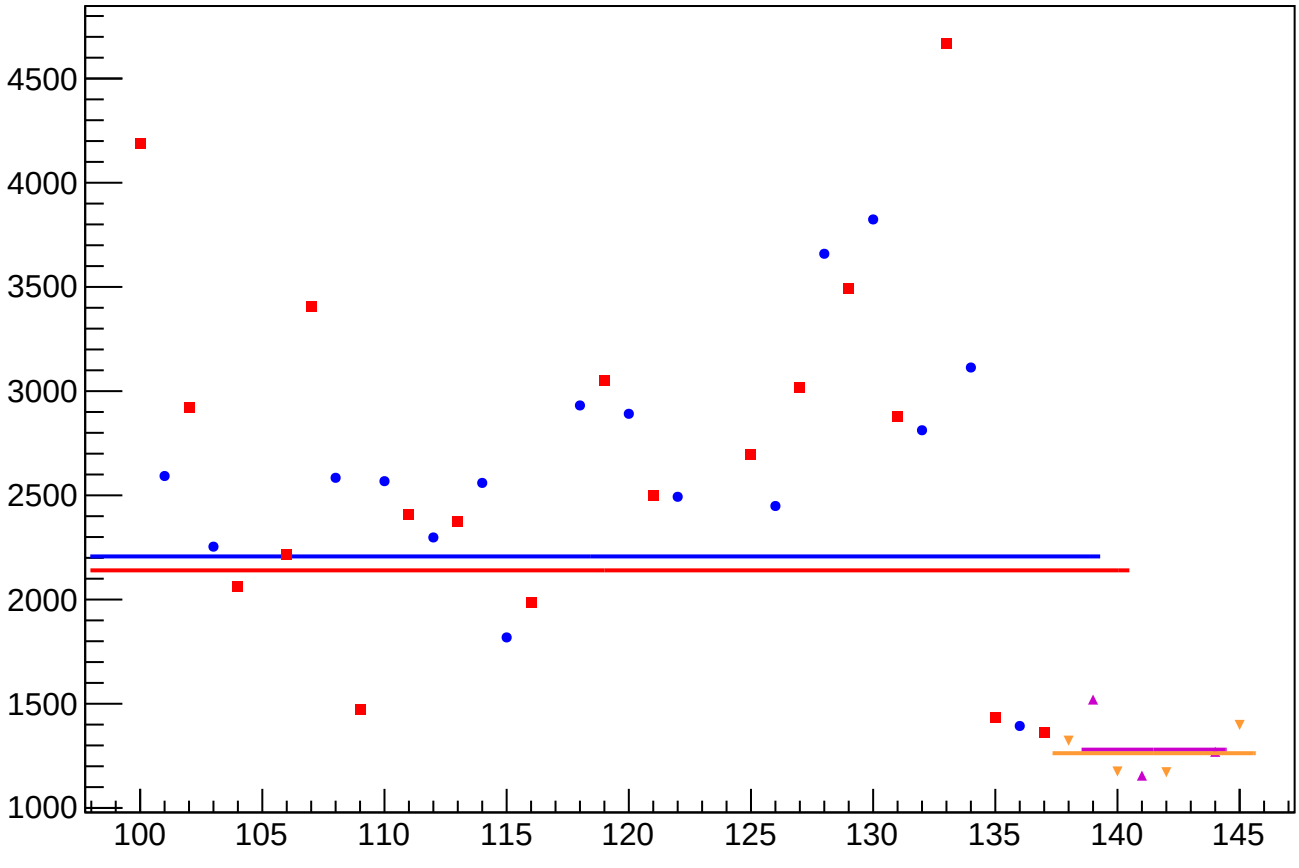
Left: 744.745+/-546.295 $\chi^2$/NDF: 9.7/6

Right: -103.153+/-604.221 $\chi^2$/NDF: 42.0/33

In: -410.165+/-585.068 $\chi^2$/NDF:28.6/18

Out: 1076.586+/-561.788 $\chi^2$/NDF:20.8/21

All: 363.378+/-405.224 $\chi^2$/NDF: 52.8/40




Right In: 2206.918+/-0.610 $\chi^2$/NDF: 1249024.4/15

Left Out: 1262.706+/-0.531 $\chi^2$/NDF:32975.2/3

Right Out: 2140.060+/-0.599 $\chi^2$/NDF: 1448366.8/17

Left In: 1279.783+/-0.563 $\chi^2$/NDF:62673.2/2

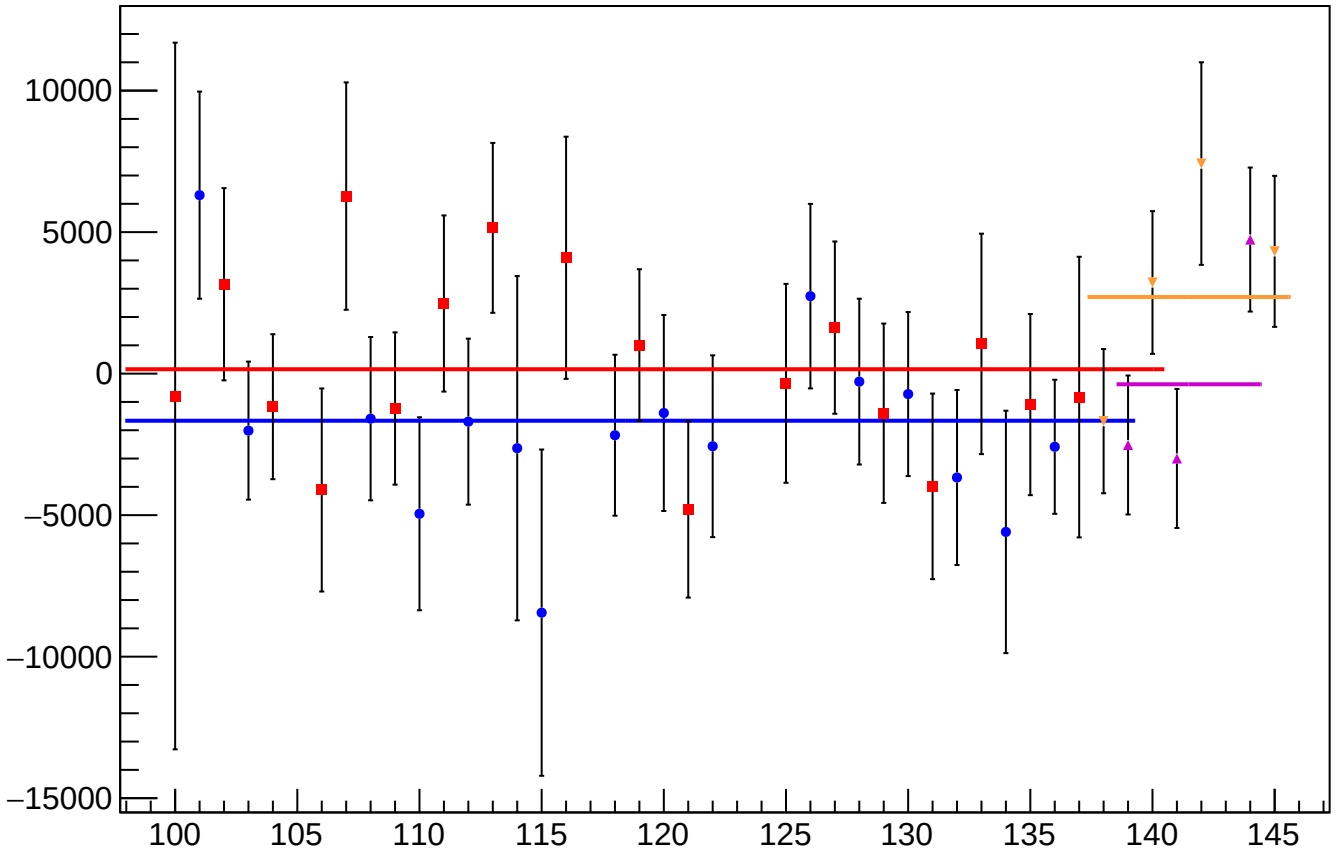
Left: 1270.737+/-0.386 $\chi^2$/NDF: 96135.3/6

Right: 2172.900+/-0.427 $\chi^2$/NDF: 2703511.1/33

In: 1706.770+/-0.414 $\chi^2$/NDF:2559454.8/18

Out: 1648.613+/-0.397 $\chi^2$/NDF:2683175.1/21

All: 1676.512+/-0.287 $\chi^2$/NDF: 5252911.6/40




Right In: -1664.231+/-792.164 $\chi^2$/NDF: 10.8/15

Left Out: 2706.397+/-1373.700 $\chi^2$/NDF:5.1/3

Right Out: 155.775+/-785.481 $\chi^2$/NDF: 14.2/17

Left In: -375.933+/-1434.623 $\chi^2$/NDF:5.9/2

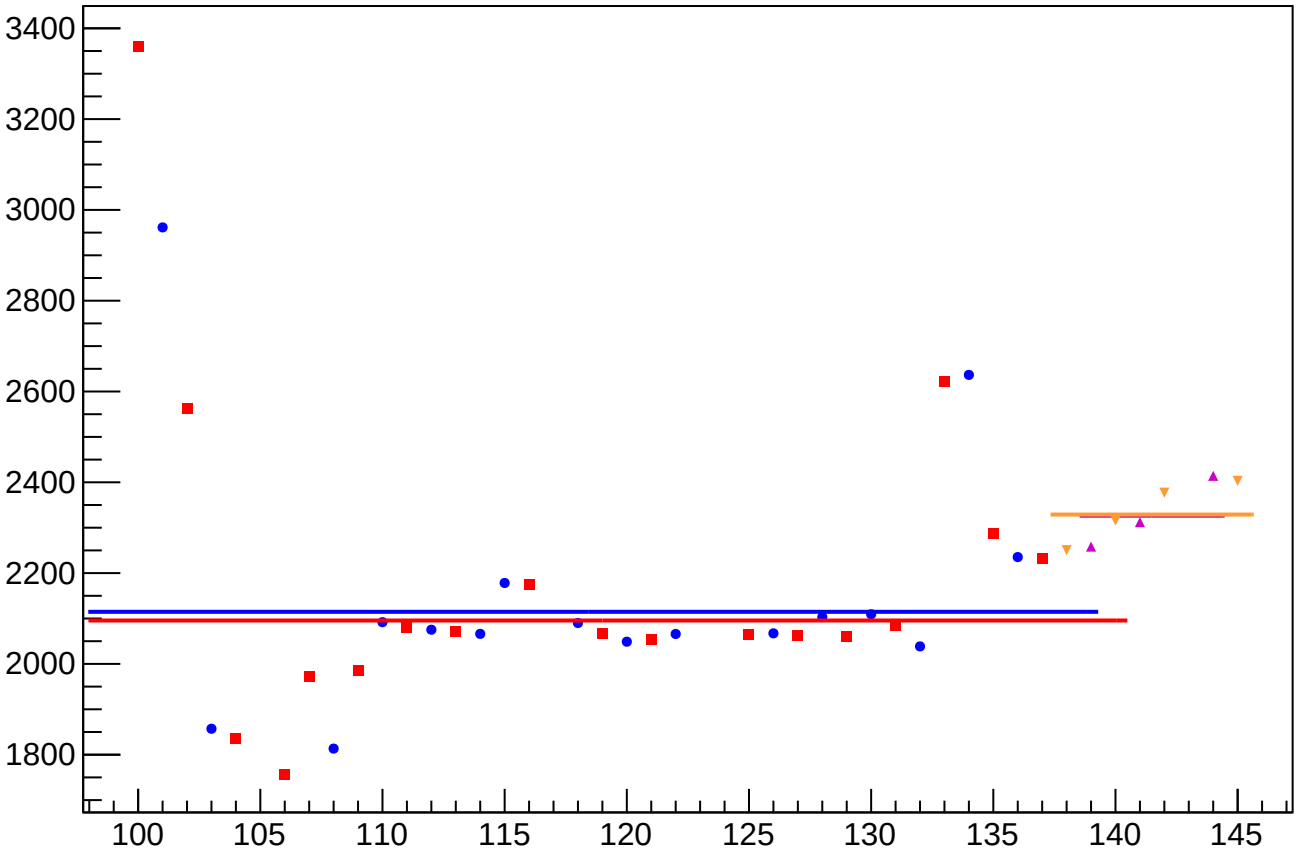
Left: 1232.068+/-992.191 $\chi^2$/NDF: 13.5/6

Right: -746.519+/-557.767 $\chi^2$/NDF: 27.6/33

In: -1363.212+/-693.468 $\chi^2$/NDF:17.3/18

Out: 784.235+/-681.880 $\chi^2$/NDF:21.9/21

All: -271.395+/-486.207 $\chi^2$/NDF: 44.1/40




Right In: 2114.755+/-0.560 $\chi^2$/NDF: 189920.9/15

Left Out: 2328.945+/-0.971 $\chi^2$/NDF:3864.8/3

Right Out: 2095.597+/-0.555 $\chi^2$/NDF: 149360.5/17

Left In: 2326.340+/-1.014 $\chi^2$/NDF:3987.0/2

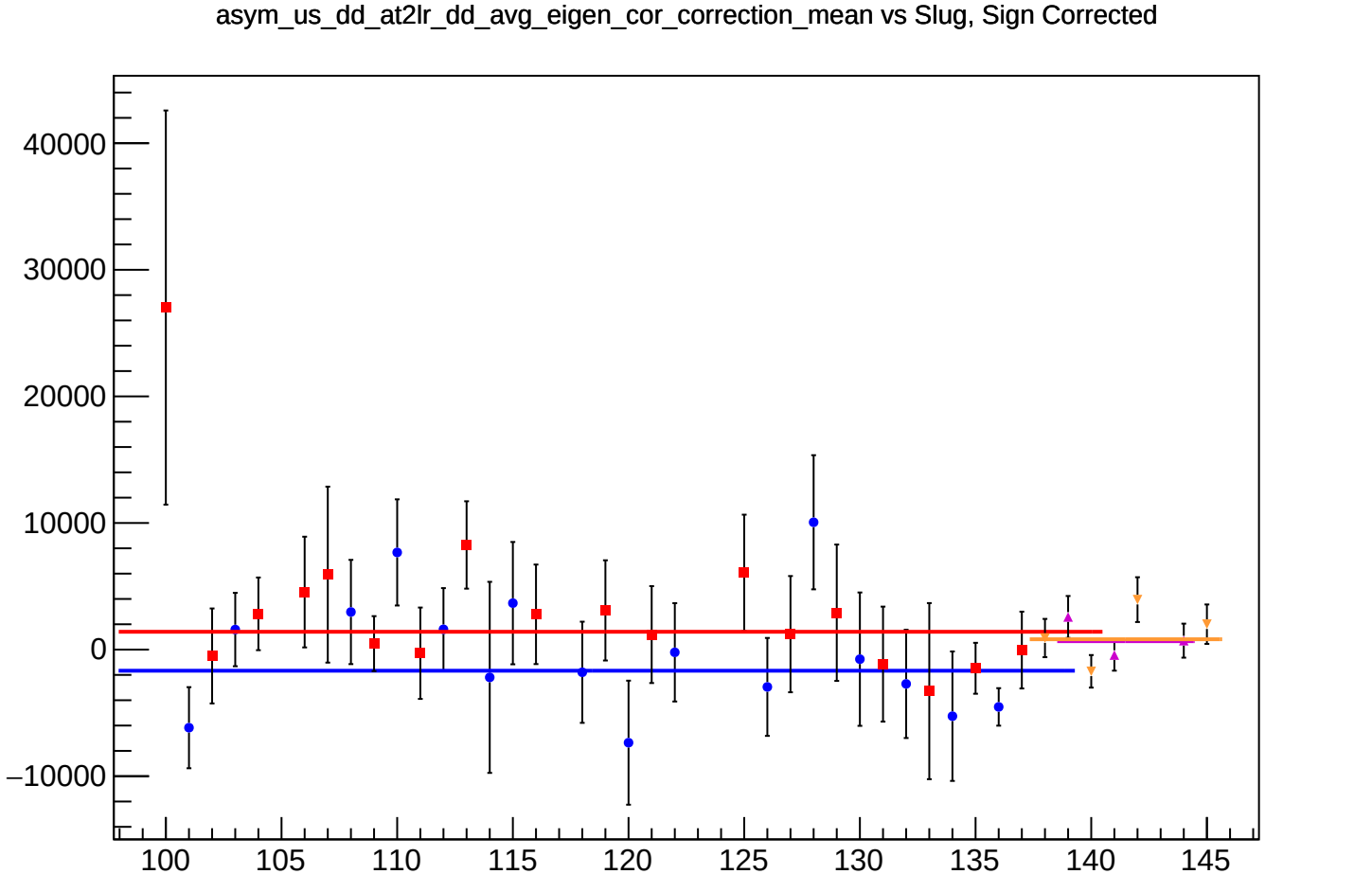
Left: 2327.699+/-0.702 $\chi^2$/NDF: 7855.3/6

Right: 2105.095+/-0.394 $\chi^2$/NDF: 339871.2/33

In: 2164.193+/-0.490 $\chi^2$/NDF:227246.4/18

Out: 2153.092+/-0.482 $\chi^2$/NDF:196716.5/21

All: 2158.549+/-0.344 $\chi^2$/NDF: 424223.4/40


asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
40000
30000
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10000
0
−10000
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105
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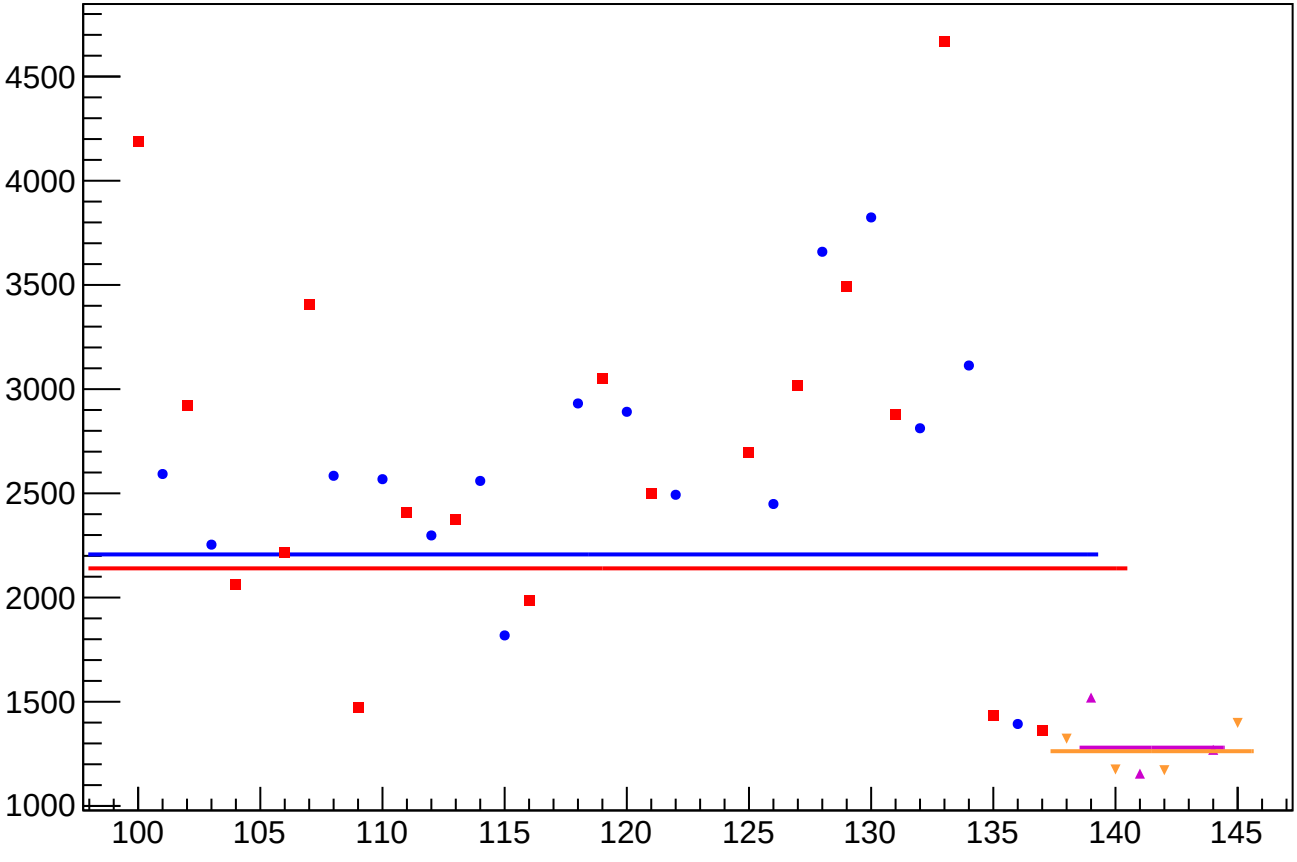
125
130
135
140
145
Right In: -1668.482+/-862.126 χ²/NDF: 22.5/15
Left Out: 816.363+/-750.623 χ²/NDF:7.6/3
Right Out: 1407.975+/-847.068 χ²/NDF: 13.0/17
Left In: 664.089+/-796.579 χ²/NDF:2.1/2
Left: 744.745+/-546.295 χ²/NDF: 9.7/6
Right: -103.153+/-604.221 χ²/NDF: 42.0/33
In: -410.165+/-585.068 χ²/NDF:28.6/18
Out: 1076.586+/-561.788 χ²/NDF:20.8/21
All: 363.378+/-405.224 χ²/NDF: 52.8/40

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: 1262.706+/-0.531 $\chi^2$/NDF:32975.2/3

Right Out: 2140.060+/-0.599 $\chi^2$/NDF: 1448366.8/17

Left In: 1279.783+/-0.563 $\chi^2$/NDF:62673.2/2

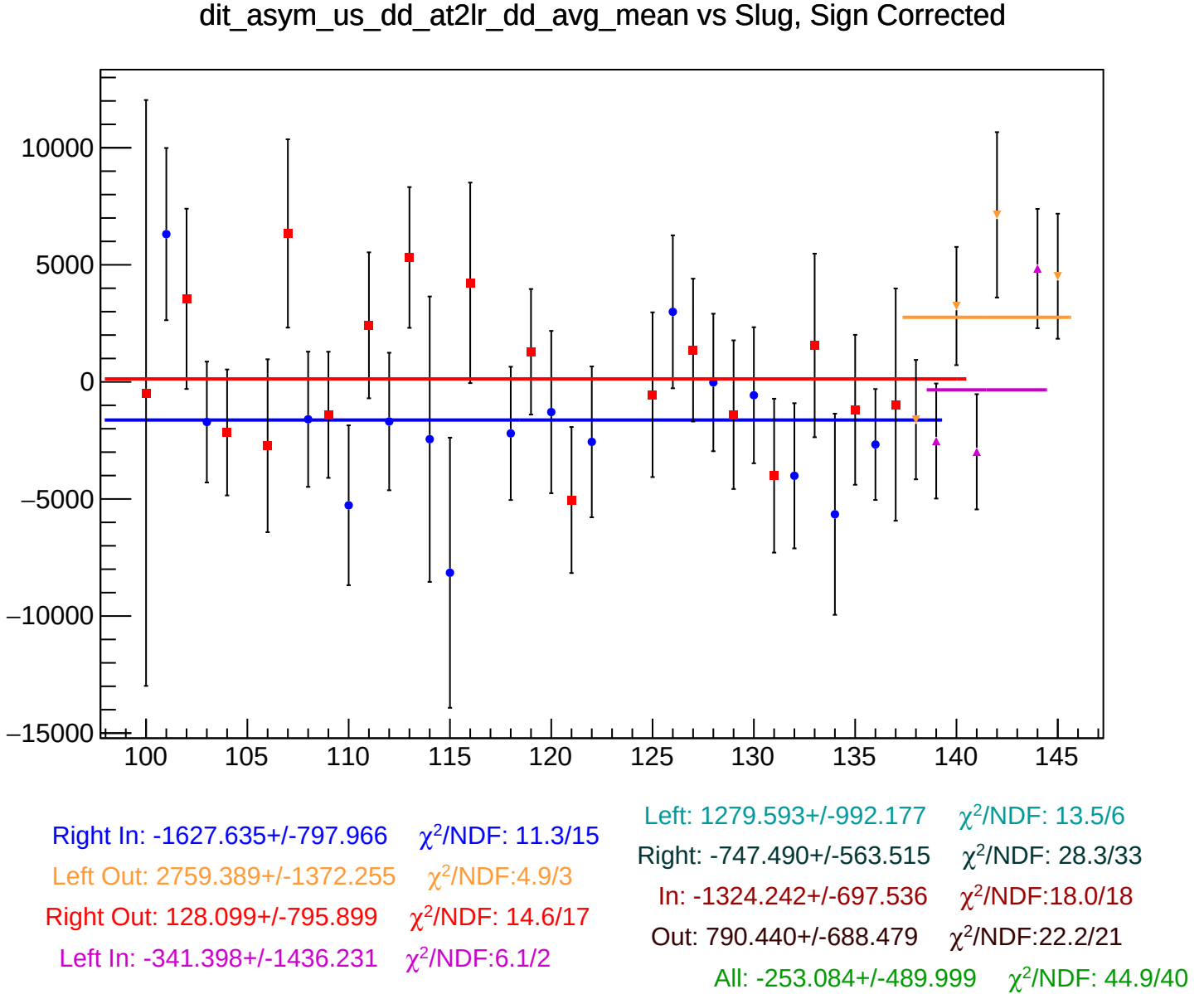
Left: 1270.737+/-0.386 $\chi^2$/NDF: 96135.3/6

Right: 2172.900+/-0.427 $\chi^2$/NDF: 2703511.1/33

In: 1706.770+/-0.414 $\chi^2$/NDF:2559454.8/18

Out: 1648.613+/-0.397 $\chi^2$/NDF:2683175.1/21

All: 1676.512+/-0.287 $\chi^2$/NDF: 5252911.6/40


dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected
10000
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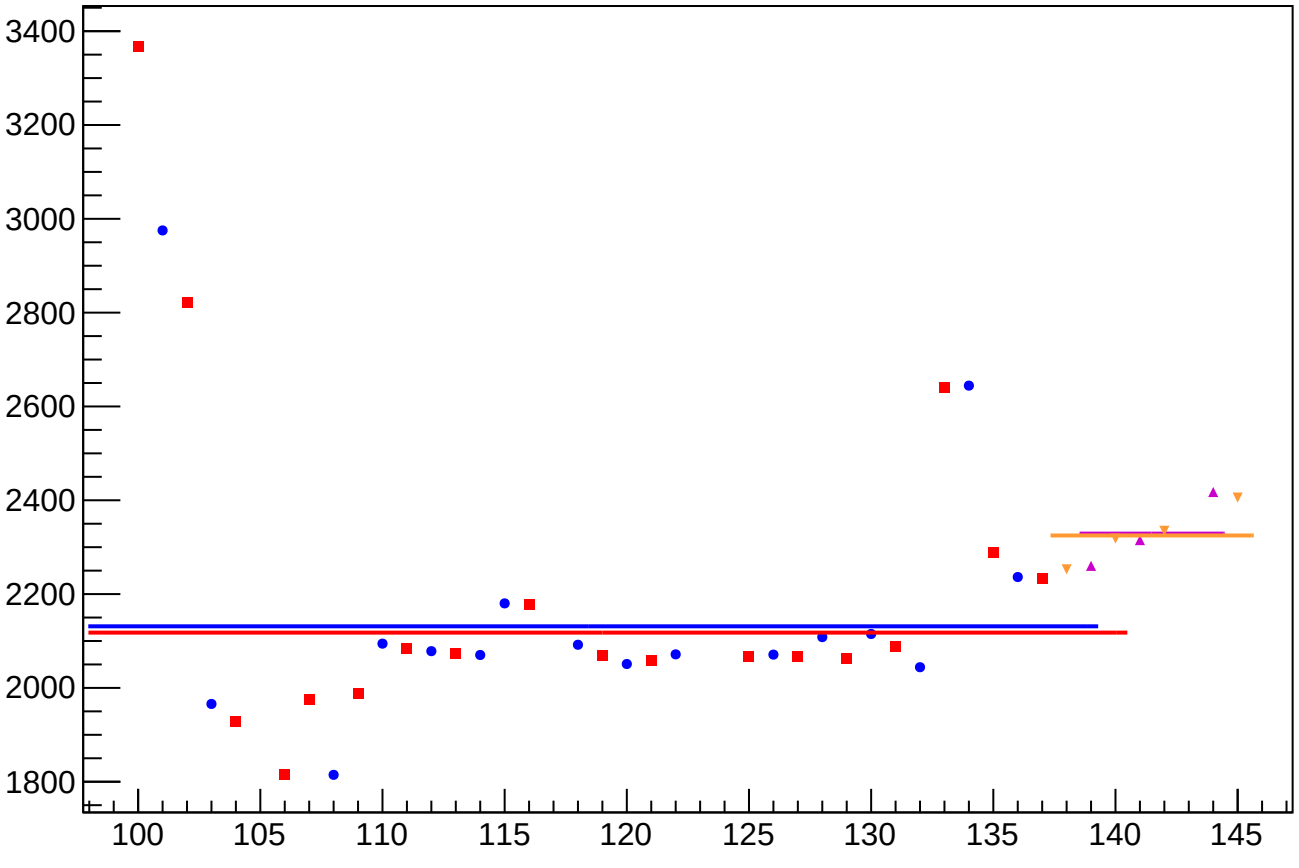
−5000
−10000
−15000
100
105
110
115
120
125
130
135
140
145
Right In: -1627.635+/-797.966 χ²/NDF: 11.3/15
Left Out: 2759.389+/-1372.255 χ²/NDF:4.9/3
Right Out: 128.099+/-795.899 χ²/NDF: 14.6/17
Left In: -341.398+/-1436.231 χ²/NDF:6.1/2
Left: 1279.593+/-992.177 χ²/NDF: 13.5/6
Right: -747.490+/-563.515 χ²/NDF: 28.3/33
In: -1324.242+/-697.536 χ²/NDF:18.0/18
Out: 790.440+/-688.479 χ²/NDF:22.2/21
All: -253.084+/-489.999 χ²/NDF: 44.9/40




Right In: 2131.298+/-0.564 $\chi^2$/NDF: 175943.3/15

Left Out: 2324.950+/-0.970 $\chi^2$/NDF:3461.3/3

Right Out: 2117.868+/-0.563 $\chi^2$/NDF: 163622.7/17

Left In: 2328.917+/-1.016 $\chi^2$/NDF:4048.1/2

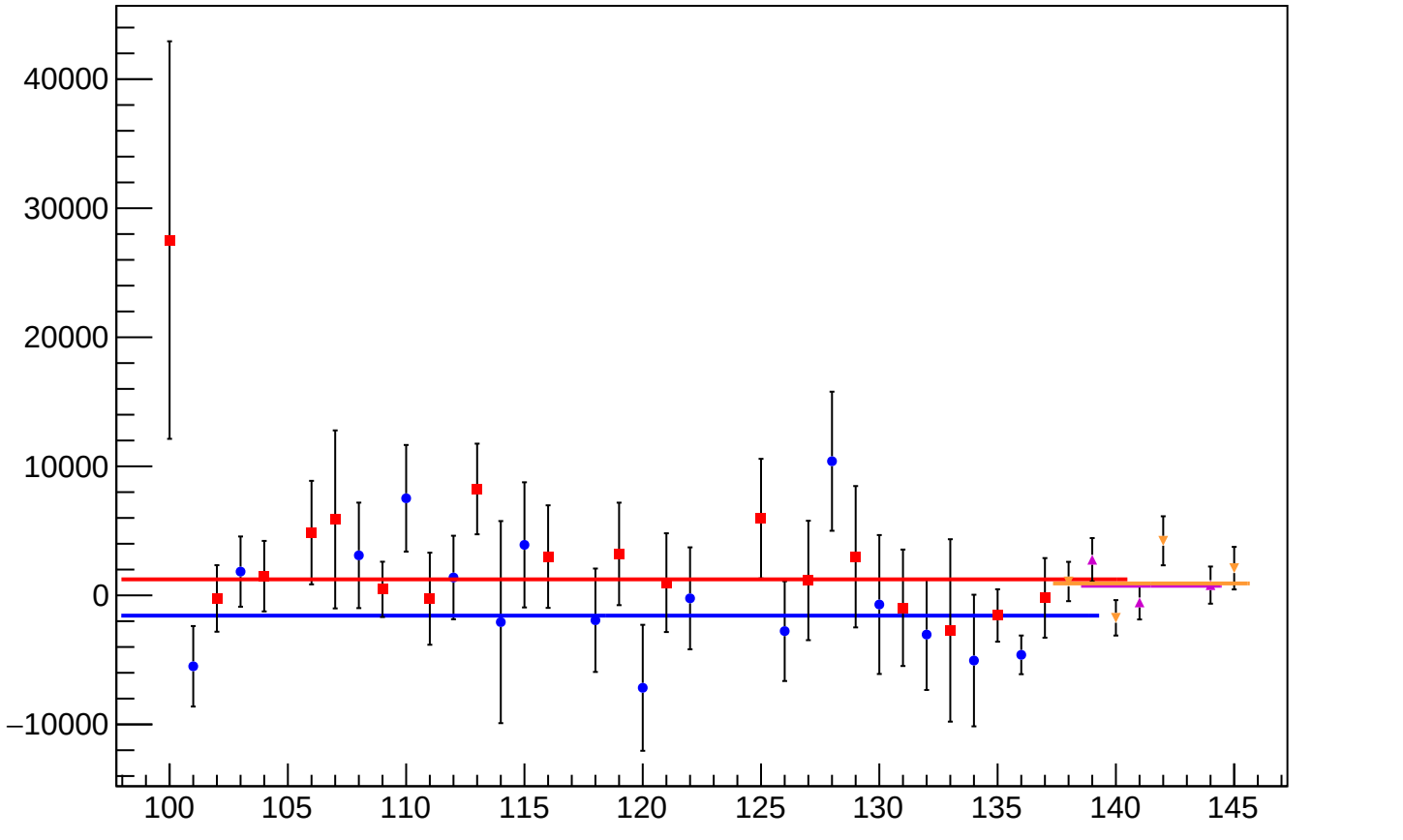
Left: 2326.843+/-0.702 $\chi^2$/NDF: 7517.3/6

Right: 2124.565+/-0.398 $\chi^2$/NDF: 339850.1/33

In: 2177.912+/-0.493 $\chi^2$/NDF:208925.0/18

Out: 2169.993+/-0.487 $\chi^2$/NDF:201165.0/21

All: 2173.901+/-0.346 $\chi^2$/NDF: 410220.6/40


asym_us_dd_at2lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
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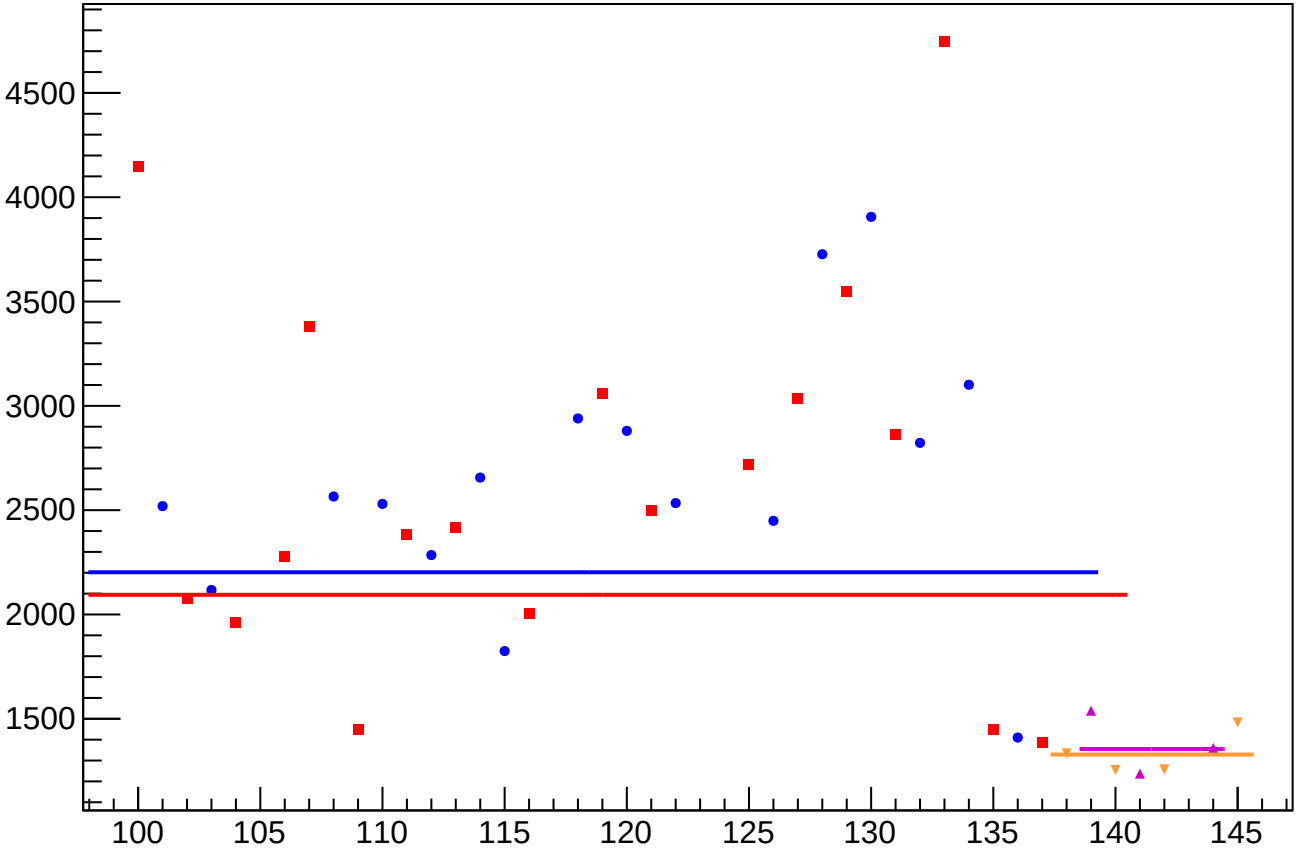
0
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -1571.073+/-859.754 χ²/NDF: 22.6/15
Left Out: 924.640+/-789.050 χ²/NDF:7.3/3
Right Out: 1241.008+/-819.775 χ²/NDF: 13.1/17
Left In: 744.651+/-841.590 χ²/NDF:2.4/2
Left: 840.439+/-575.621 χ²/NDF: 9.7/6
Right: -98.133+/-593.299 χ²/NDF: 41.3/33
In: -388.491+/-601.413 χ²/NDF:28.7/18
Out: 1076.784+/-568.494 χ²/NDF:20.5/21
All: 385.344+/-413.134 χ²/NDF: 52.3/40

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: 1328.701+/-0.558 $\chi^2$/NDF:26034.3/3

Right Out: 2094.445+/-0.580 $\chi^2$/NDF: 1373676.8/17

Left In: 1355.187+/-0.595 $\chi^2$/NDF:39889.7/2

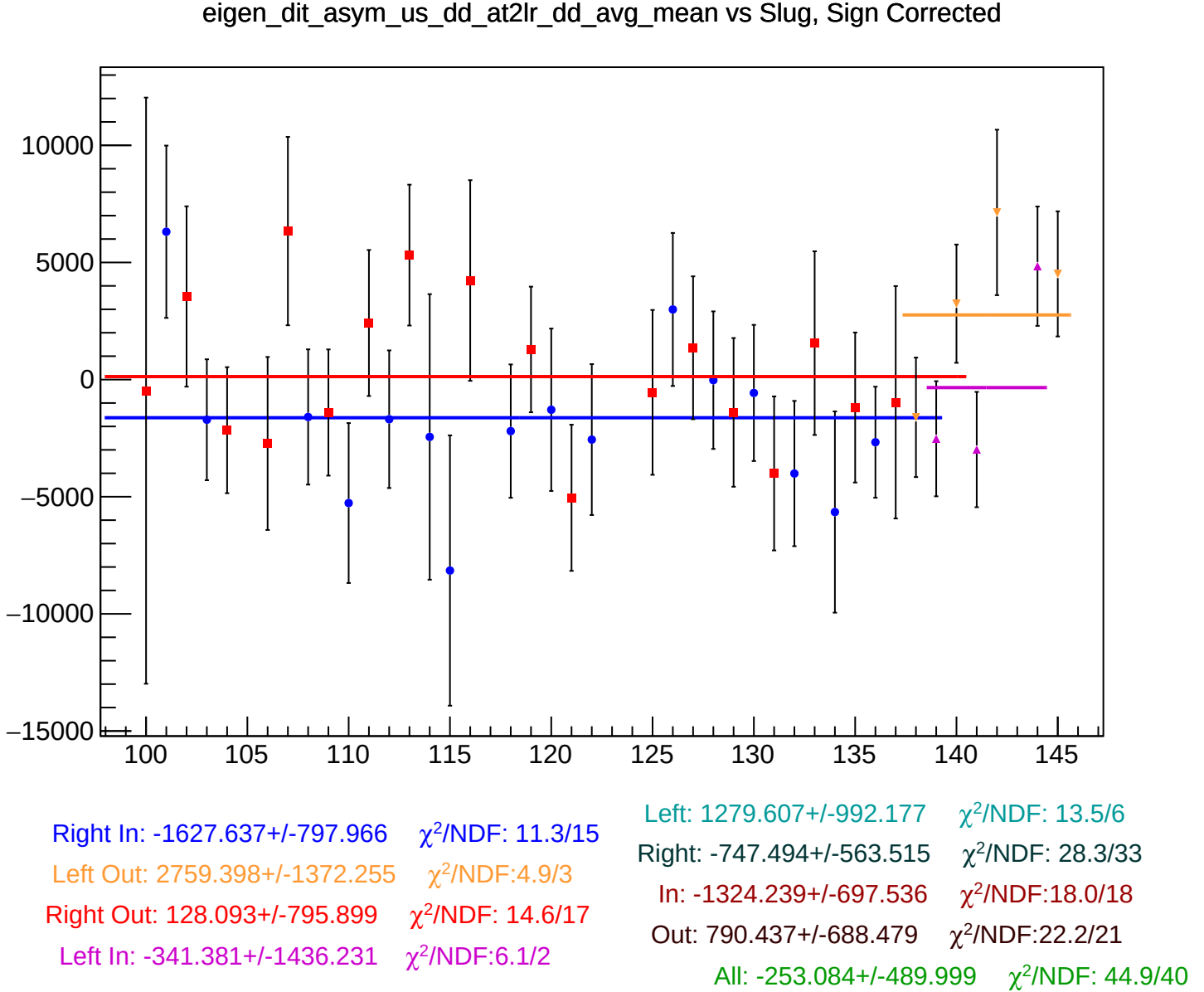
Left: 1341.092+/-0.407 $\chi^2$/NDF: 66978.2/6

Right: 2145.844+/-0.420 $\chi^2$/NDF: 2613152.0/33

In: 1769.739+/-0.425 $\chi^2$/NDF:2254574.3/18

Out: 1696.954+/-0.402 $\chi^2$/NDF:2305550.3/21

All: 1731.300+/-0.292 $\chi^2$/NDF: 4575595.0/40


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected
10000
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−5000
−10000
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105
110
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120
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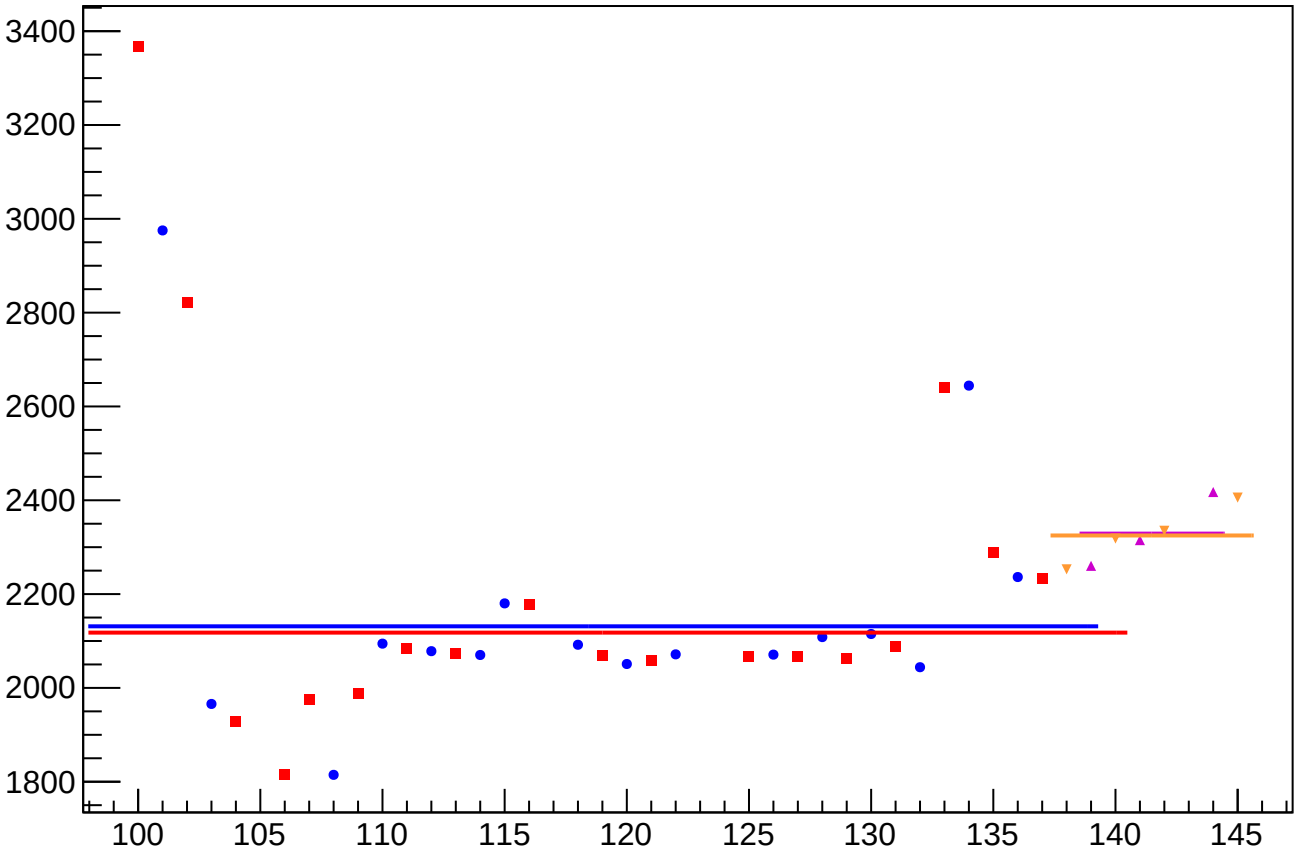
130
135
140
145
Right In: -1627.637+/-797.966 χ²/NDF: 11.3/15
Left Out: 2759.398+/-1372.255 χ²/NDF:4.9/3
Right Out: 128.093+/-795.899 χ²/NDF: 14.6/17
Left In: -341.381+/-1436.231 χ²/NDF:6.1/2
Left: 1279.607+/-992.177 χ²/NDF: 13.5/6
Right: -747.494+/-563.515 χ²/NDF: 28.3/33
In: -1324.239+/-697.536 χ²/NDF:18.0/18
Out: 790.437+/-688.479 χ²/NDF:22.2/21
All: -253.084+/-489.999 χ²/NDF: 44.9/40




Right In: 2131.298+/-0.564 $\chi^2$/NDF: 175943.3/15

Left Out: 2324.950+/-0.970 $\chi^2$/NDF:3461.3/3

Right Out: 2117.868+/-0.563 $\chi^2$/NDF: 163622.6/17

Left In: 2328.918+/-1.016 $\chi^2$/NDF:4048.1/2

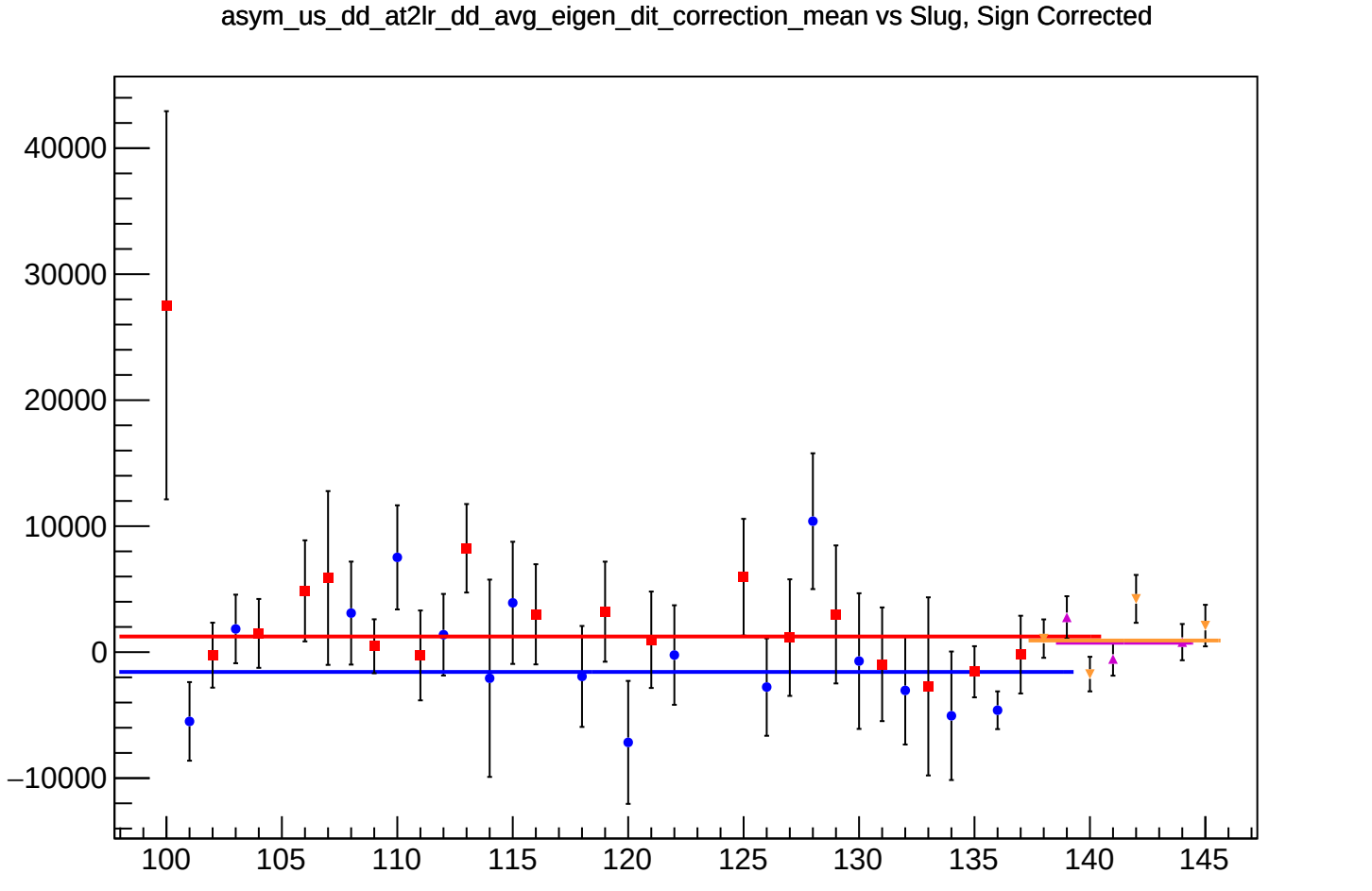
Left: 2326.843+/-0.702 $\chi^2$/NDF: 7517.3/6

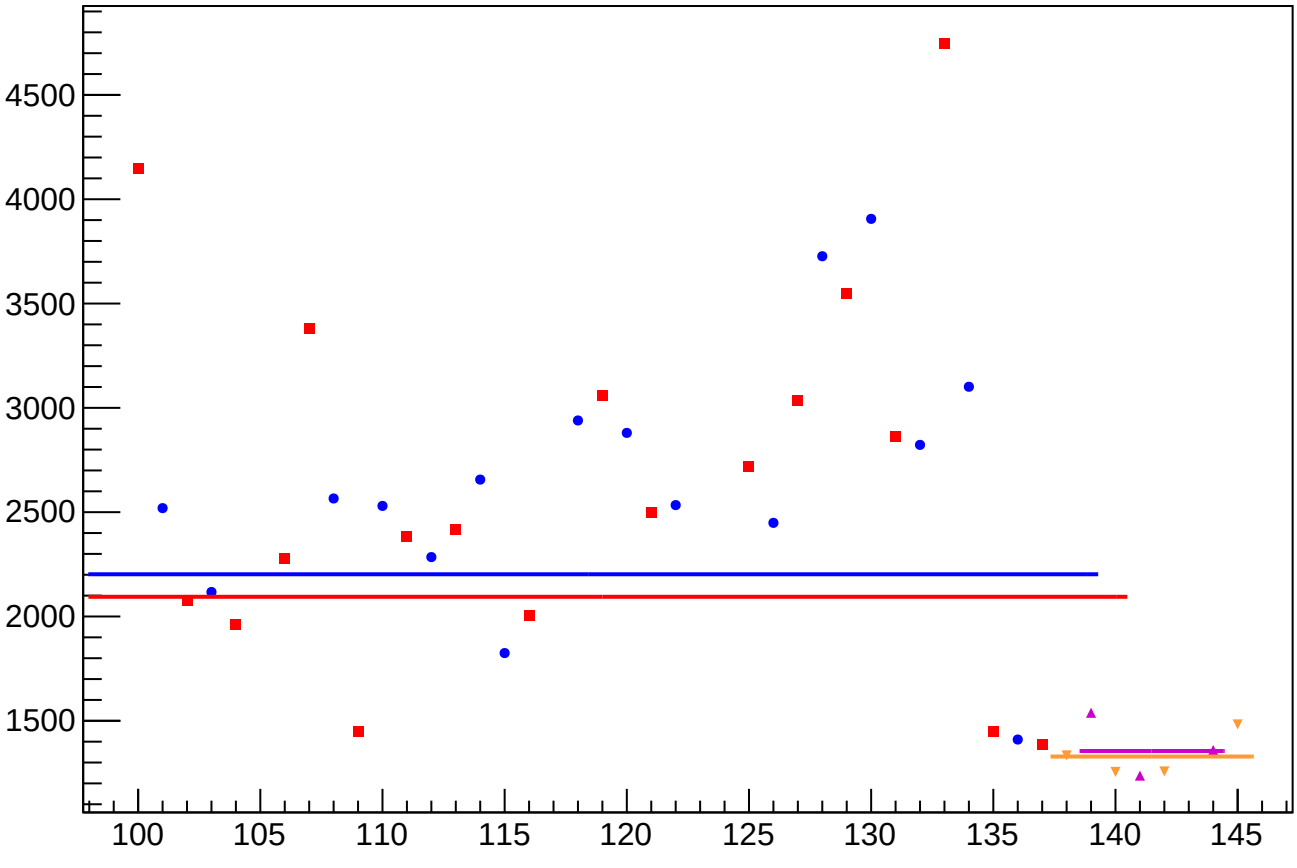
Right: 2124.565+/-0.398 $\chi^2$/NDF: 339849.9/33

In: 2177.912+/-0.493 $\chi^2$/NDF:208925.1/18

Out: 2169.993+/-0.487 $\chi^2$/NDF:201165.0/21

All: 2173.901+/-0.346 $\chi^2$/NDF: 410220.6/40


asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -1571.058+/-859.757 χ²/NDF: 22.6/15
Left Out: 924.650+/-789.055 χ²/NDF:7.3/3
Right Out: 1241.023+/-819.778 χ²/NDF: 13.1/17
Left In: 744.646+/-841.595 χ²/NDF:2.4/2
Left: 840.441+/-575.625 χ²/NDF: 9.7/6
Right: -98.119+/-593.301 χ²/NDF: 41.3/33
In: -388.489+/-601.416 χ²/NDF:28.7/18
Out: 1076.797+/-568.497 χ²/NDF:20.5/21
All: 385.351+/-413.136 χ²/NDF: 52.3/40




Right In: 2202.391+/-0.608 $\chi^2$/NDF: 1222905.3/15

Left Out: 1328.710+/-0.558 $\chi^2$/NDF:26033.1/3

Right Out: 2094.457+/-0.580 $\chi^2$/NDF: 1373629.6/17

Left In: 1355.194+/-0.595 $\chi^2$/NDF:39895.2/2

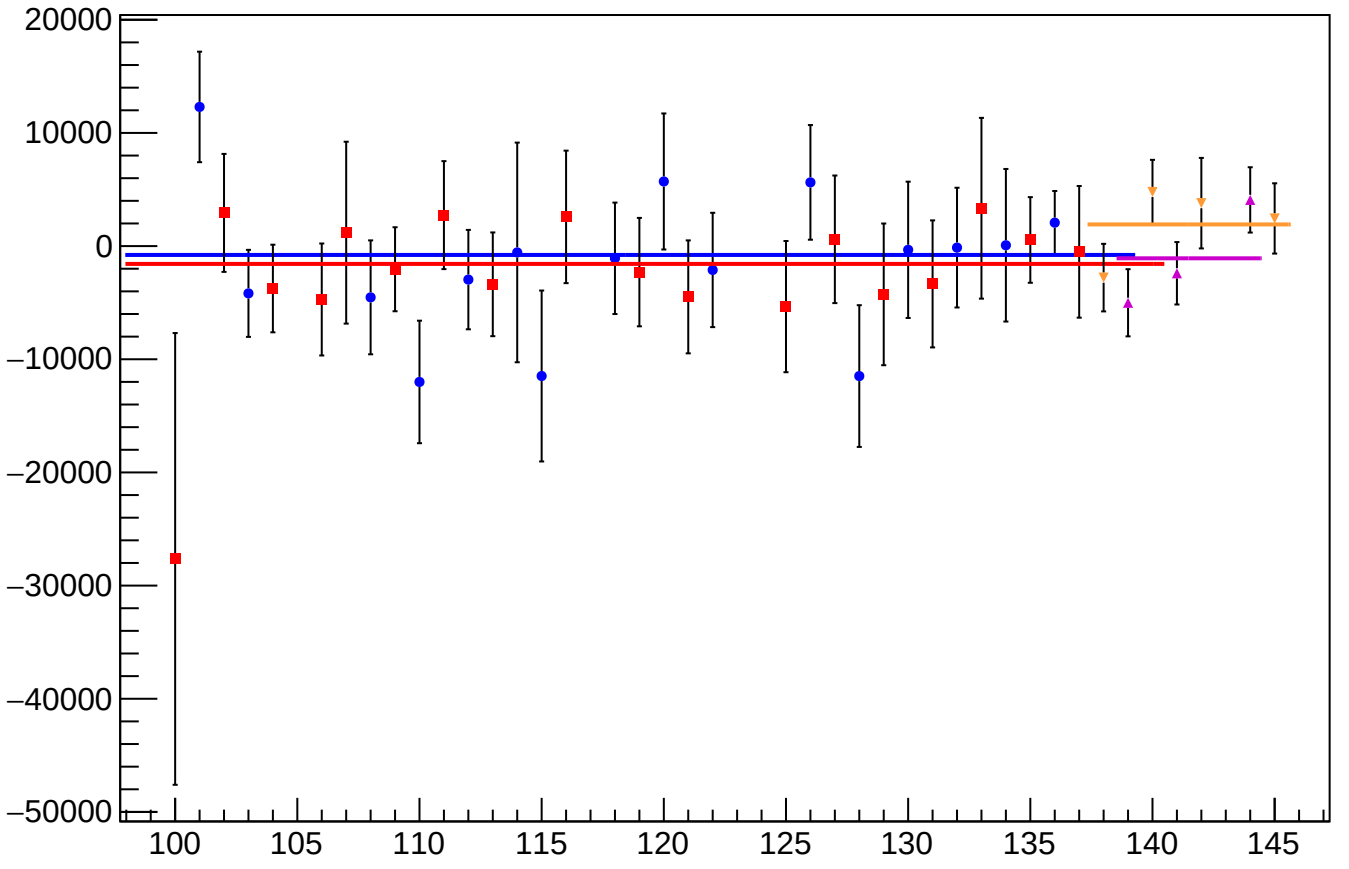
Left: 1341.100+/-0.407 $\chi^2$/NDF: 66982.3/6

Right: 2145.856+/-0.420 $\chi^2$/NDF: 2613045.0/33

In: 1769.750+/-0.425 $\chi^2$/NDF:2254525.0/18

Out: 1696.966+/-0.402 $\chi^2$/NDF:2305499.4/21

All: 1731.312+/-0.292 $\chi^2$/NDF: 4575494.0/40




Right In: -781.619+/-1241.711 $\chi^2$/NDF: 21.9/15

Left Out: 1915.642+/-1576.073 $\chi^2$/NDF:3.7/3

Right Out: -1574.673+/-1218.961 $\chi^2$/NDF: 6.7/17

Left In: -1079.825+/-1654.829 $\chi^2$/NDF:5.2/2

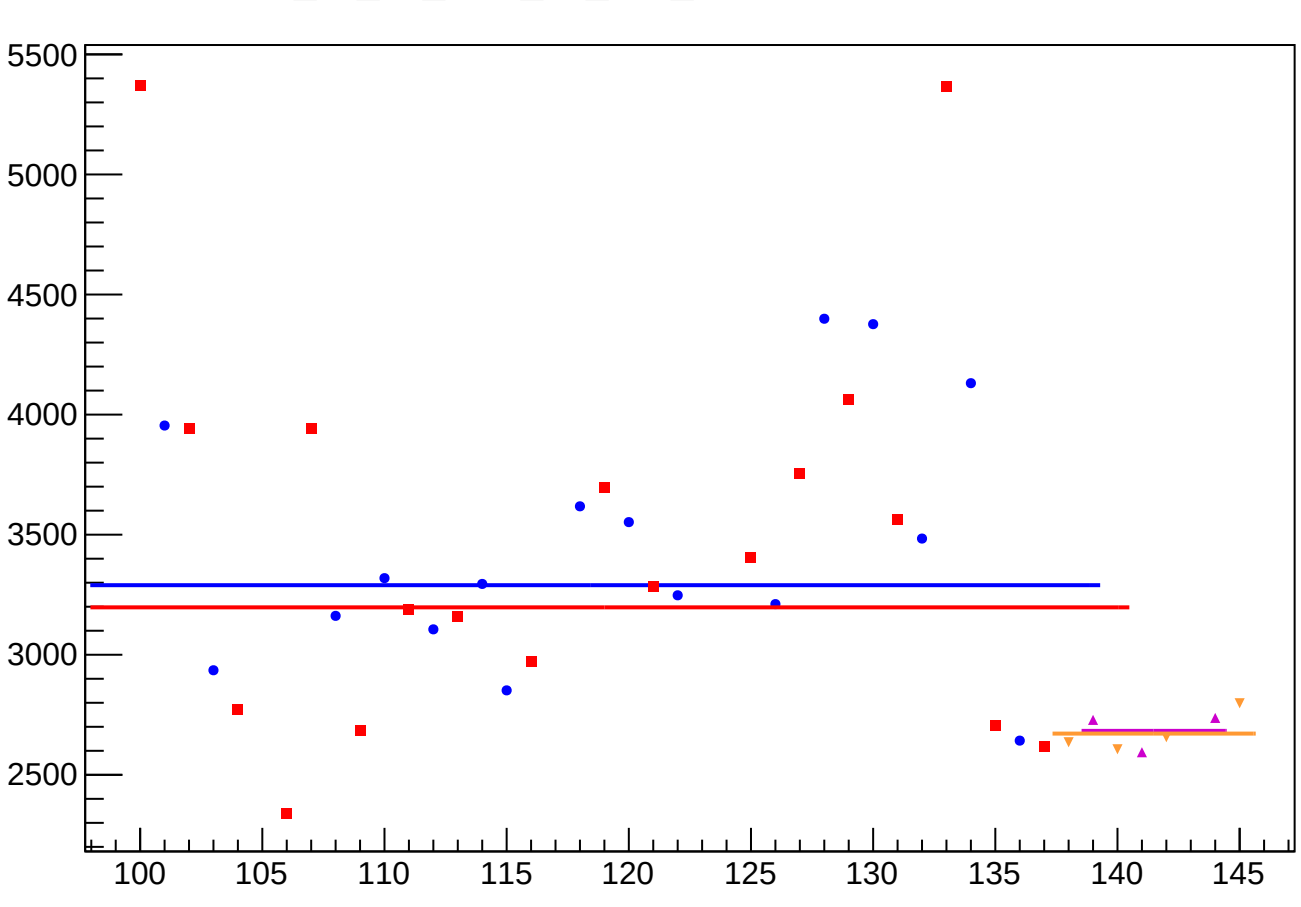
Left: 490.882+/-1141.279 $\chi^2$/NDF: 10.7/6

Right: -1185.478+/-869.867 $\chi^2$/NDF: 28.8/33

In: -889.039+/-993.199 $\chi^2$/NDF:27.1/18

Out: -268.299+/-964.224 $\chi^2$/NDF:13.5/21

All: -569.482+/-691.826 $\chi^2$/NDF: 40.8/40




Right In: 3289.690+/-0.878 $\chi^2$/NDF: 347594.0/15

Left Out: 2671.703+/-1.114 $\chi^2$/NDF:4688.5/3

Right Out: 3197.375+/-0.862 $\chi^2$/NDF: 499934.1/17

Left In: 2683.015+/-1.170 $\chi^2$/NDF:3257.7/2

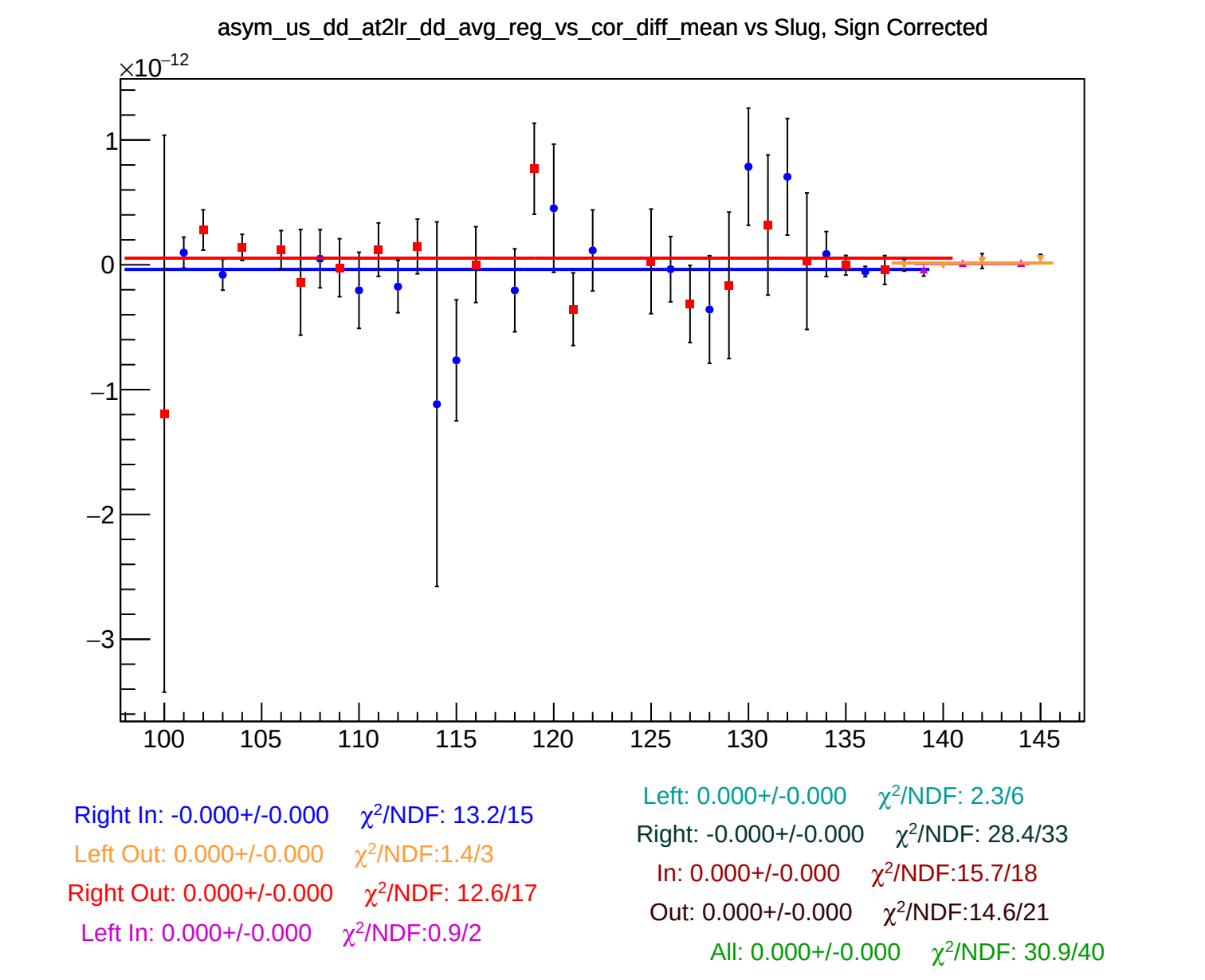
Left: 2677.083+/-0.807 $\chi^2$/NDF: 7995.2/6

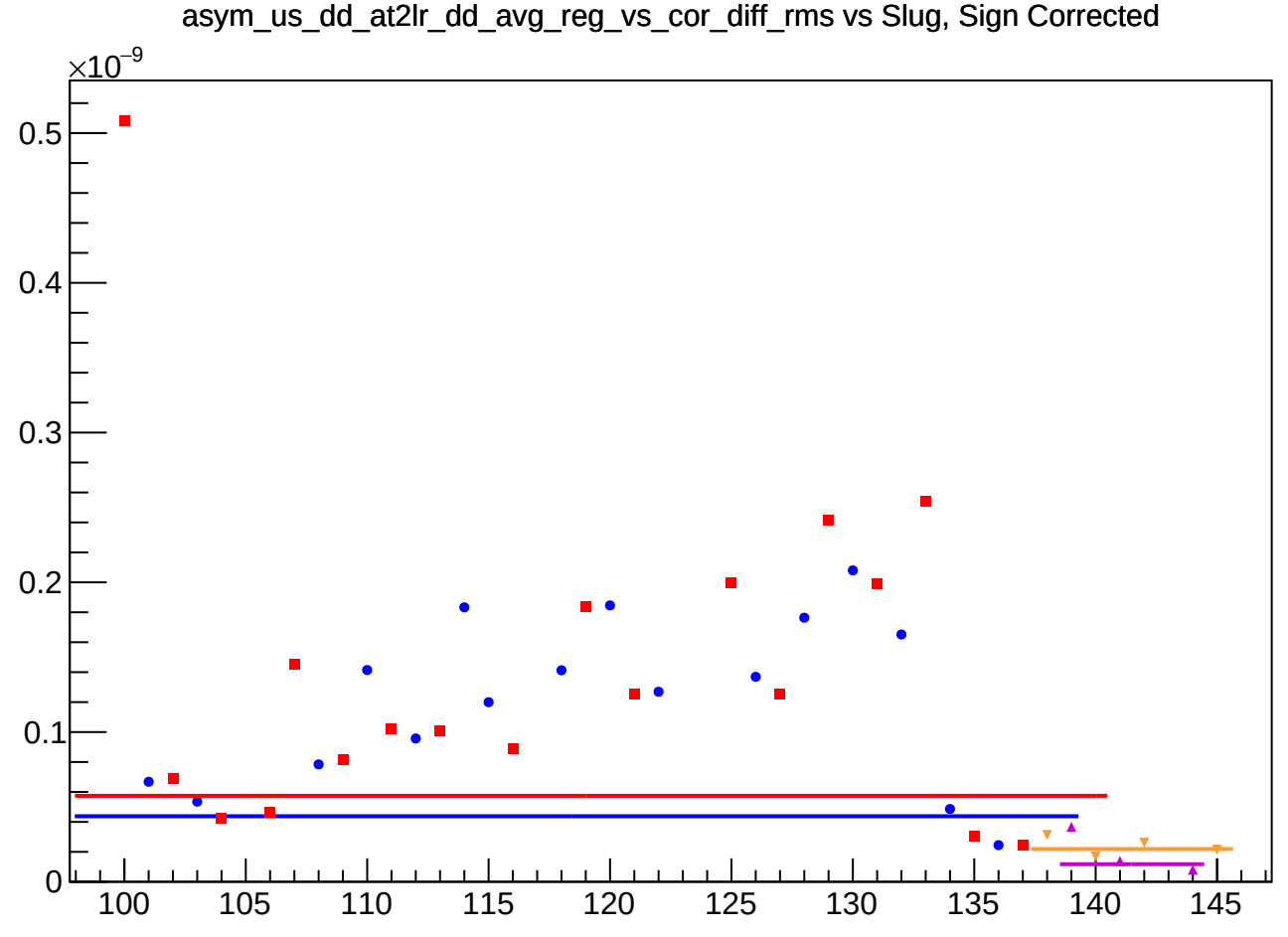
Right: 3242.678+/-0.615 $\chi^2$/NDF: 853157.4/33

In: 3071.154+/-0.702 $\chi^2$/NDF:522827.4/18

Out: 3000.627+/-0.682 $\chi^2$/NDF:643838.5/21

All: 3034.847+/-0.489 $\chi^2$/NDF: 1171857.6/40


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 13.2/15
Left Out: 0.000+/-0.000 χ²/NDF:1.4/3
Right Out: 0.000+/-0.000 χ²/NDF: 12.6/17
Left In: 0.000+/-0.000 χ²/NDF:0.9/2
Left: 0.000+/-0.000 χ²/NDF: 2.3/6
Right: -0.000+/-0.000 χ²/NDF: 28.4/33
In: 0.000+/-0.000 χ²/NDF:15.7/18
Out: 0.000+/-0.000 χ²/NDF:14.6/21
All: 0.000+/-0.000 χ²/NDF: 30.9/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2227887.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:142276.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2086696.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:538272.8/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 1013618.1/6

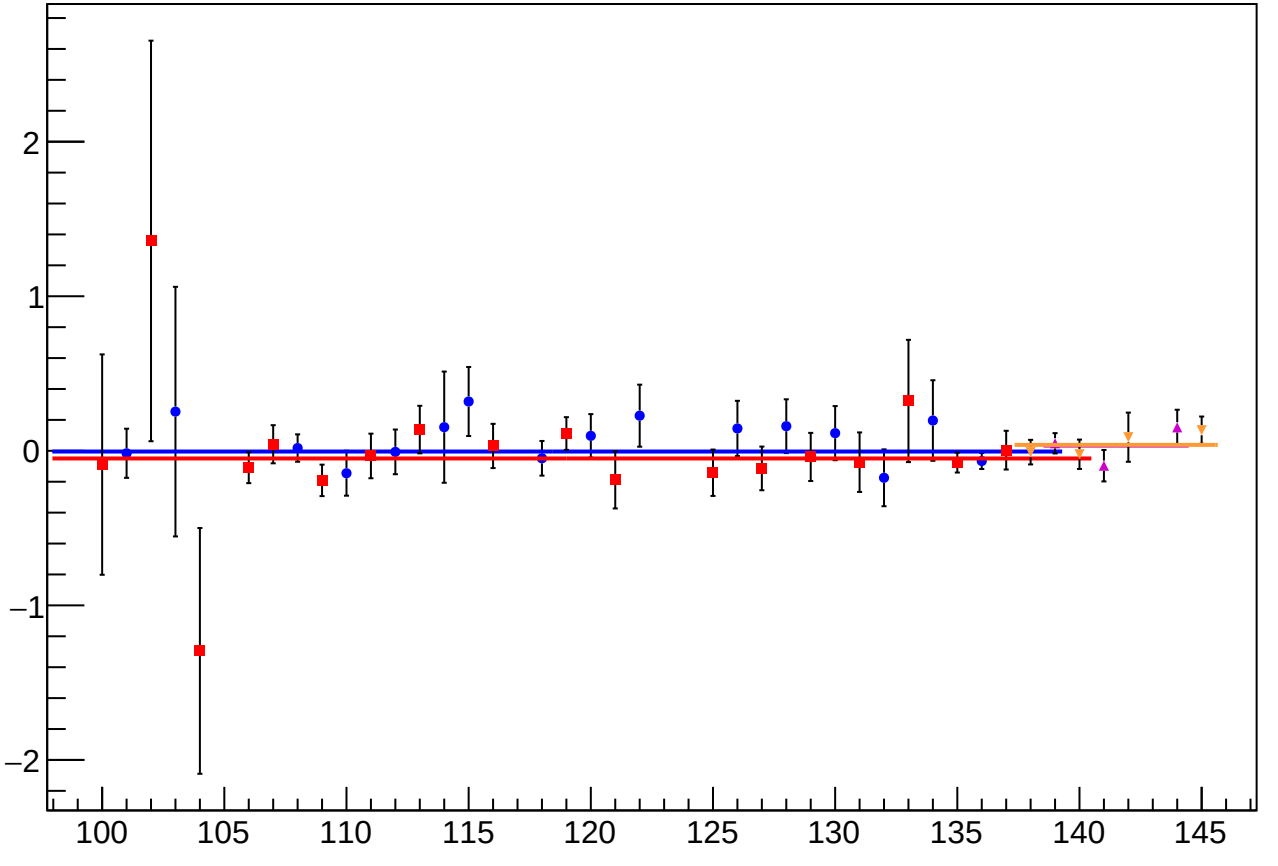
Right: 0.000+/-0.000 $\chi^2$/NDF: 4436407.3/33

In: 0.000+/-0.000 $\chi^2$/NDF:4234017.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3337122.3/21

All: 0.000+/-0.000 $\chi^2$/NDF: 8080241.5/40

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: 0.038+/-0.048 $\chi^2$/NDF:2.0/3

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.034+/-0.050 $\chi^2$/NDF:2.8/2

Left: 0.036+/-0.034 $\chi^2$/NDF: 4.8/6

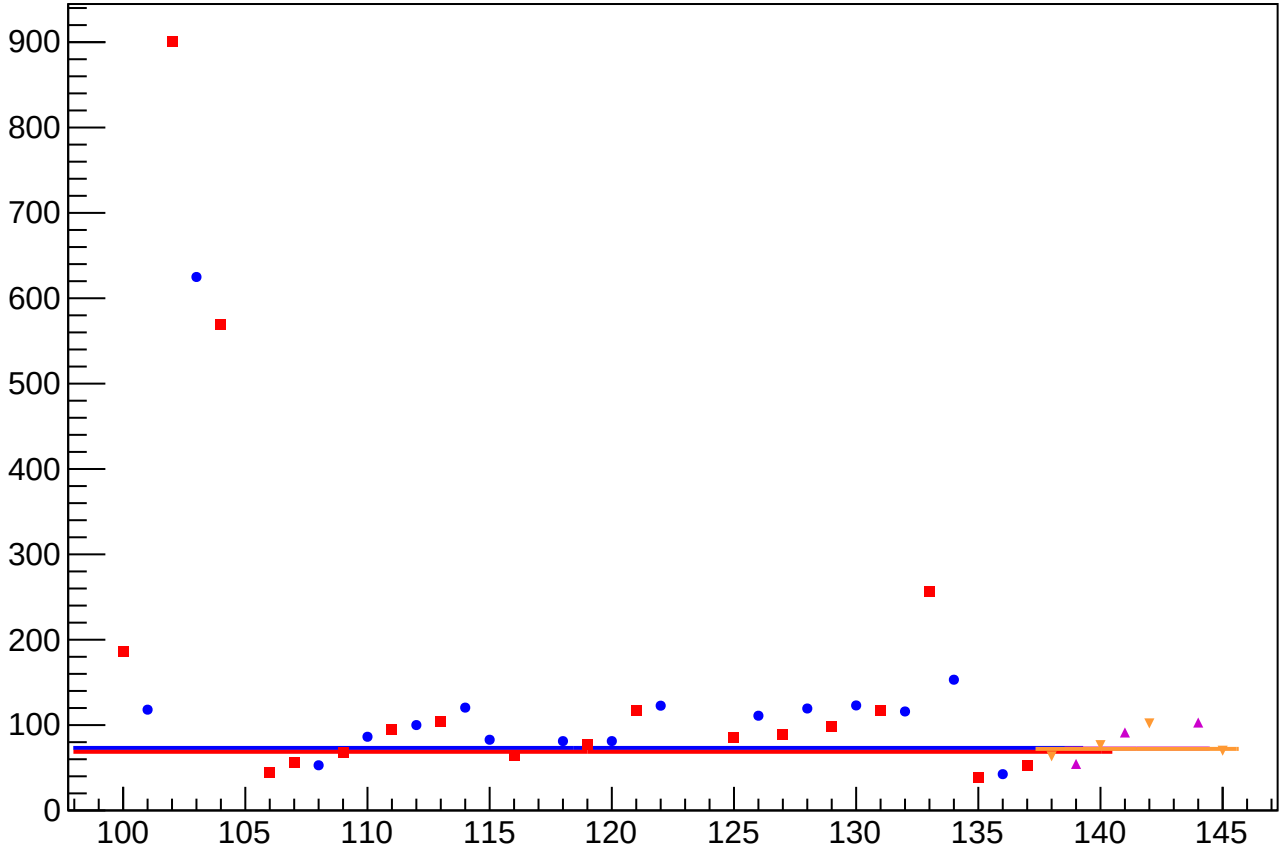
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.007+/-0.027 $\chi^2$/NDF:13.5/18

Out: -0.023+/-0.026 $\chi^2$/NDF:17.4/21

All: -0.008+/-0.019 $\chi^2$/NDF: 31.5/40

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 73.234+/-0.023 $\chi^2$/NDF: 2854601.2/15

Left Out: 72.129+/-0.034 $\chi^2$/NDF:99971.2/3

Right Out: 68.724+/-0.022 $\chi^2$/NDF: 3331744.2/17

Left In: 72.540+/-0.035 $\chi^2$/NDF:362462.6/2

Left: 72.327+/-0.024 $\chi^2$/NDF: 462505.0/6

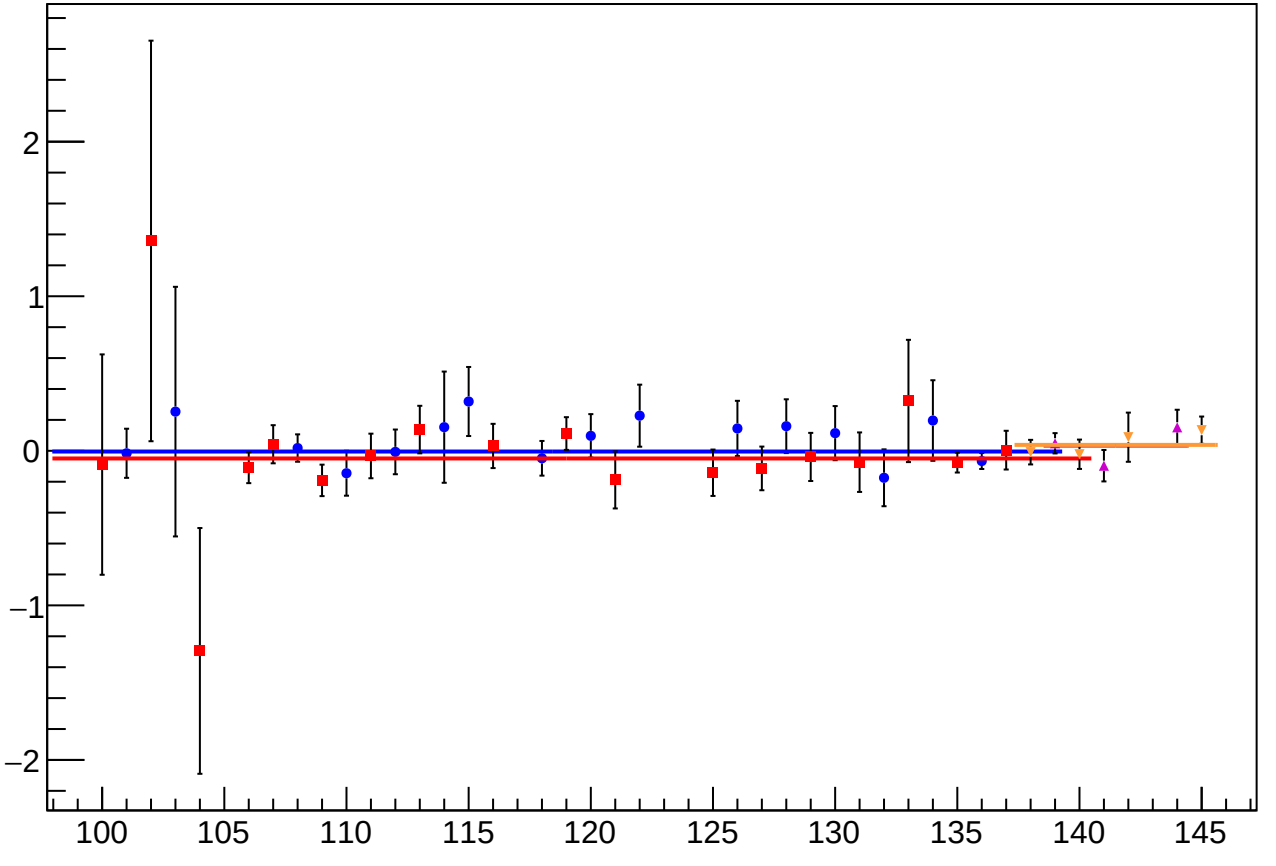
Right: 70.939+/-0.016 $\chi^2$/NDF: 6206281.8/33

In: 73.028+/-0.019 $\chi^2$/NDF:3217339.5/18

Out: 69.761+/-0.019 $\chi^2$/NDF:3438761.7/21

All: 71.356+/-0.013 $\chi^2$/NDF: 6671056.0/40

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: 0.038+/-0.048 $\chi^2$/NDF:2.0/3

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.034+/-0.050 $\chi^2$/NDF:2.8/2

Left: 0.036+/-0.034 $\chi^2$/NDF: 4.8/6

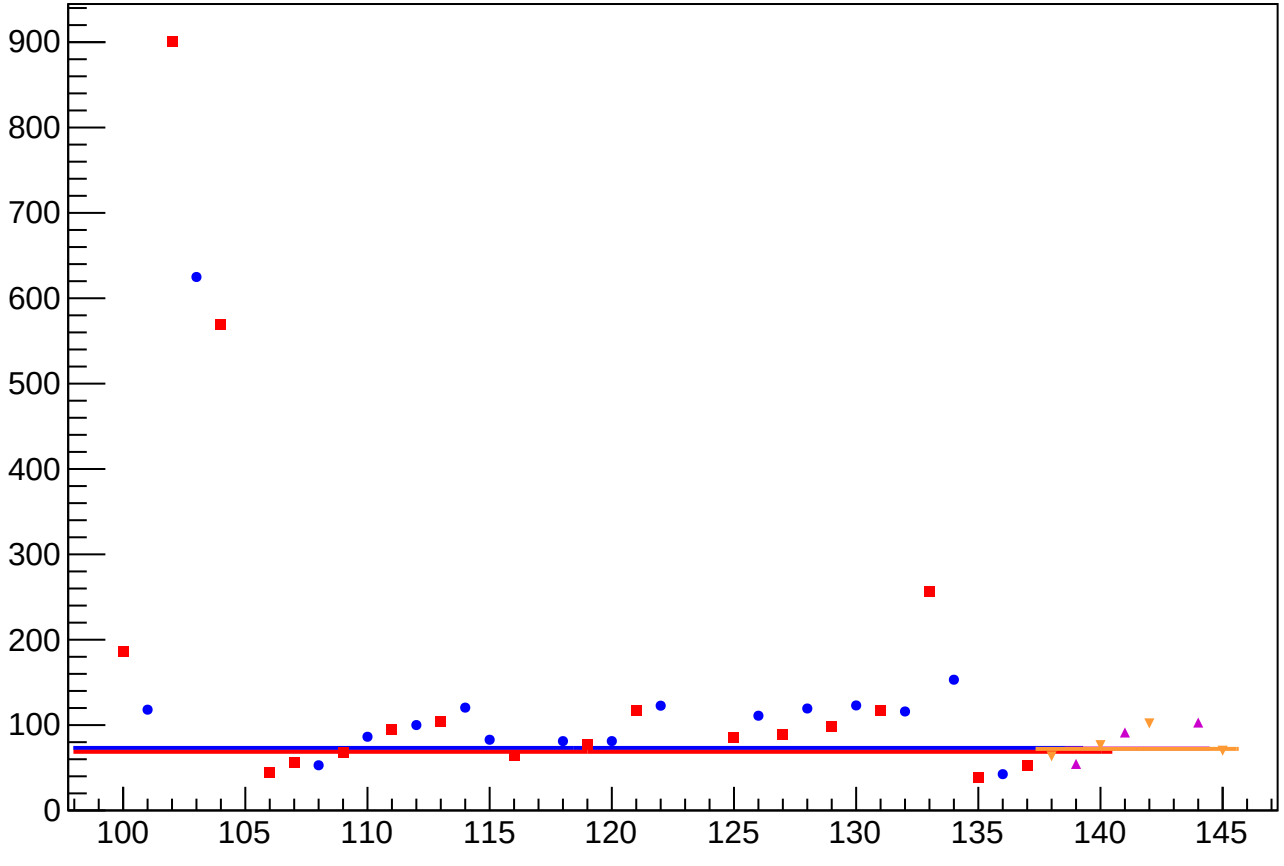
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.007+/-0.027 $\chi^2$/NDF:13.5/18

Out: -0.023+/-0.026 $\chi^2$/NDF:17.4/21

All: -0.008+/-0.019 $\chi^2$/NDF: 31.5/40

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: 72.129+/-0.034 $\chi^2$/NDF:99971.2/3

Right Out: 68.724+/-0.022 $\chi^2$/NDF: 3331744.2/17

Left In: 72.540+/-0.035 $\chi^2$/NDF:362462.6/2

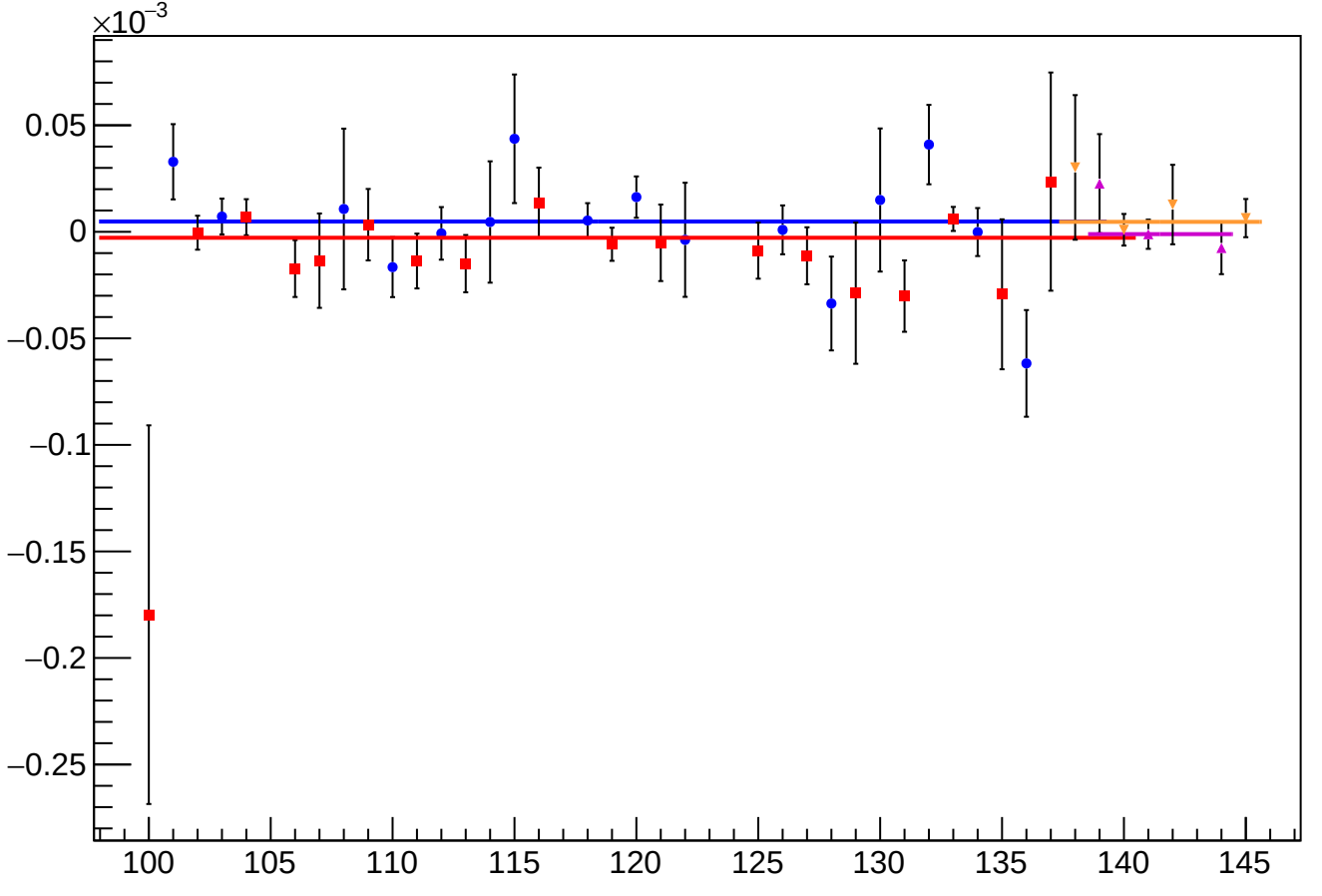
Left: 72.327+/-0.024 $\chi^2$/NDF: 462505.0/6

Right: 70.939+/-0.016 $\chi^2$/NDF: 6206281.8/33

In: 73.028+/-0.019 $\chi^2$/NDF:3217339.5/18

Out: 69.761+/-0.019 $\chi^2$/NDF:3438761.7/21

All: 71.356+/-0.013 $\chi^2$/NDF: 6671056.0/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.0/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.3/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 2.9/6

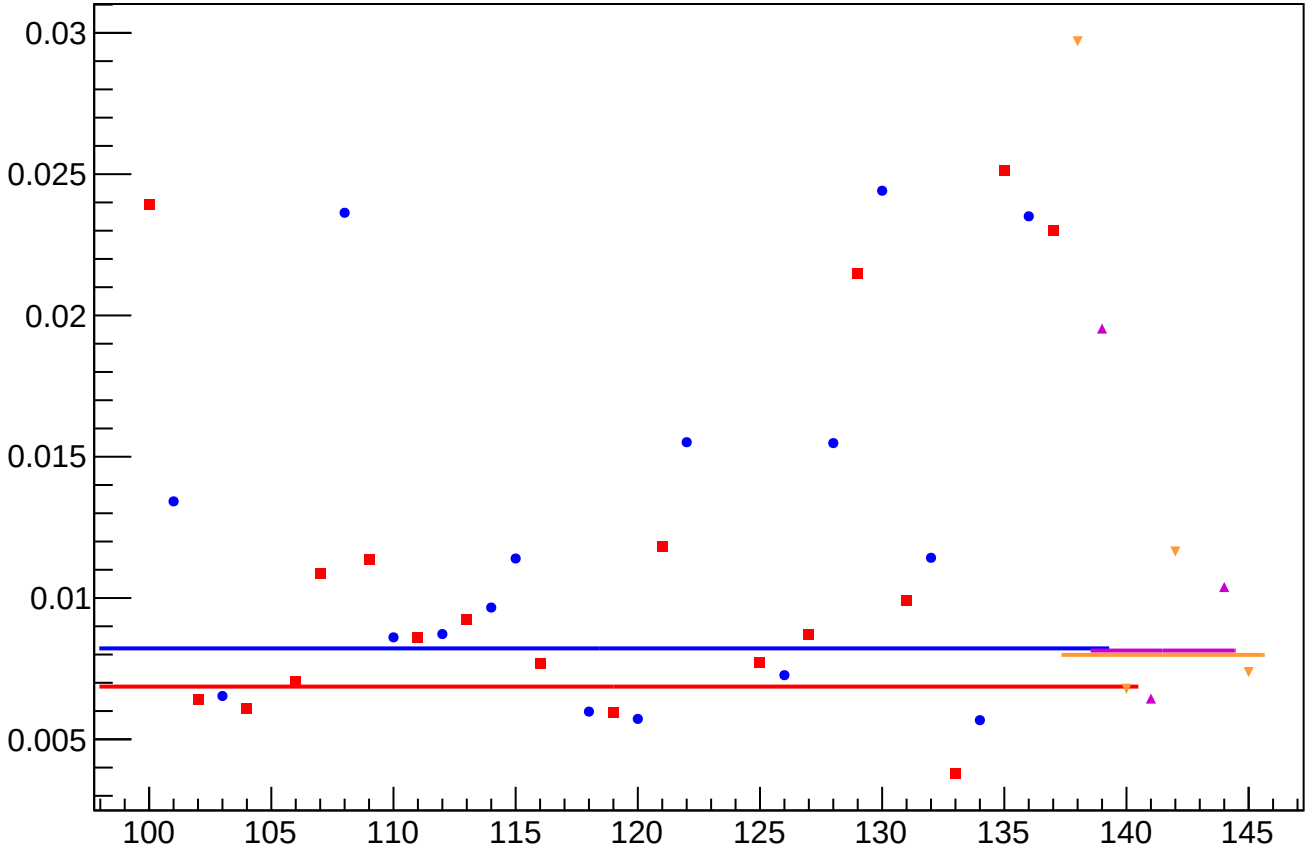
Right: 0.000+/-0.000 $\chi^2$/NDF: 42.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:24.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.3/21

All: 0.000+/-0.000 $\chi^2$/NDF: 45.3/40

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: 0.008+/-0.000 $\chi^2$/NDF:957277.1/3

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 2426444.0/17

Left In: 0.008+/-0.000 $\chi^2$/NDF:670247.7/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 1628257.4/6

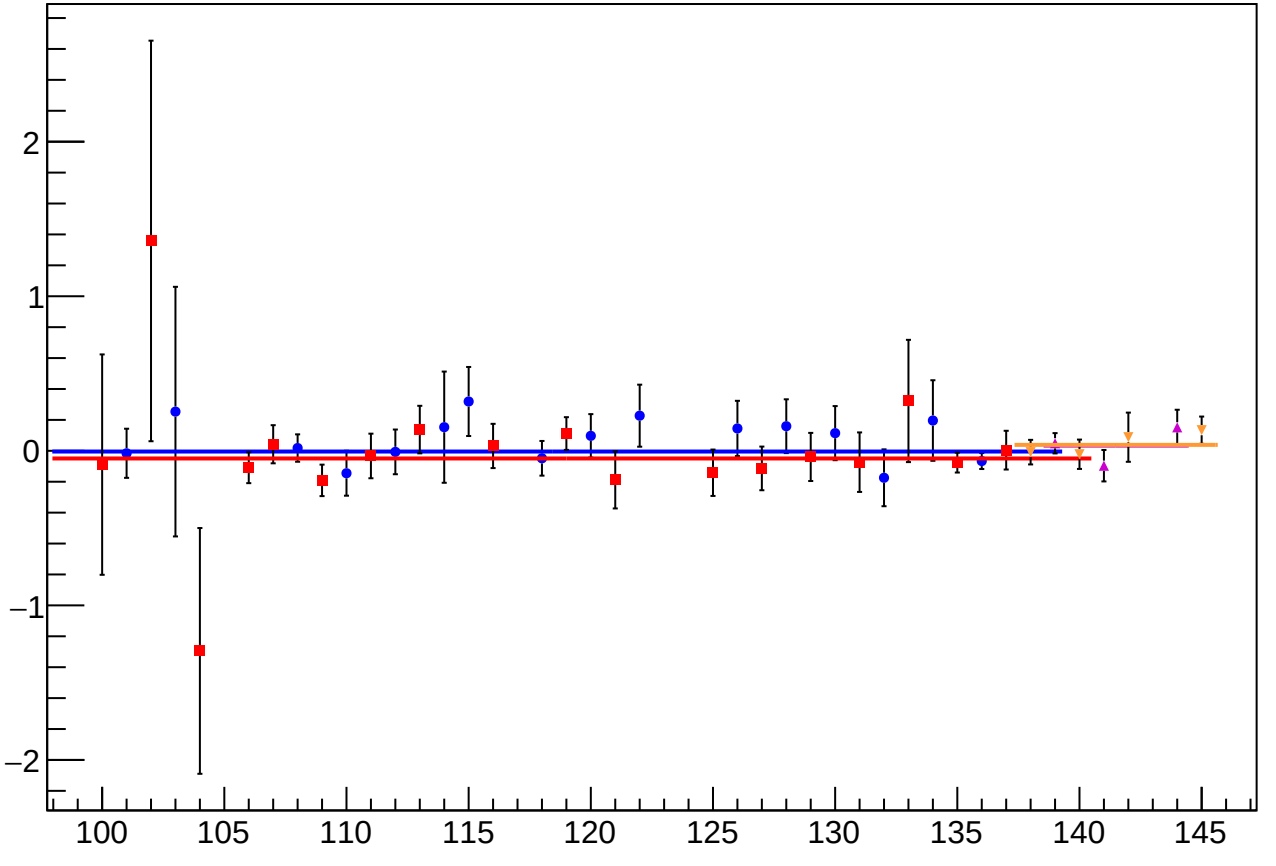
Right: 0.007+/-0.000 $\chi^2$/NDF: 5263403.5/33

In: 0.008+/-0.000 $\chi^2$/NDF:3326678.2/18

Out: 0.007+/-0.000 $\chi^2$/NDF:3451617.1/21

All: 0.008+/-0.000 $\chi^2$/NDF: 6933746.5/40

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: 0.038+/-0.048 $\chi^2$/NDF:2.0/3

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.034+/-0.050 $\chi^2$/NDF:2.8/2

Left: 0.036+/-0.034 $\chi^2$/NDF: 4.8/6

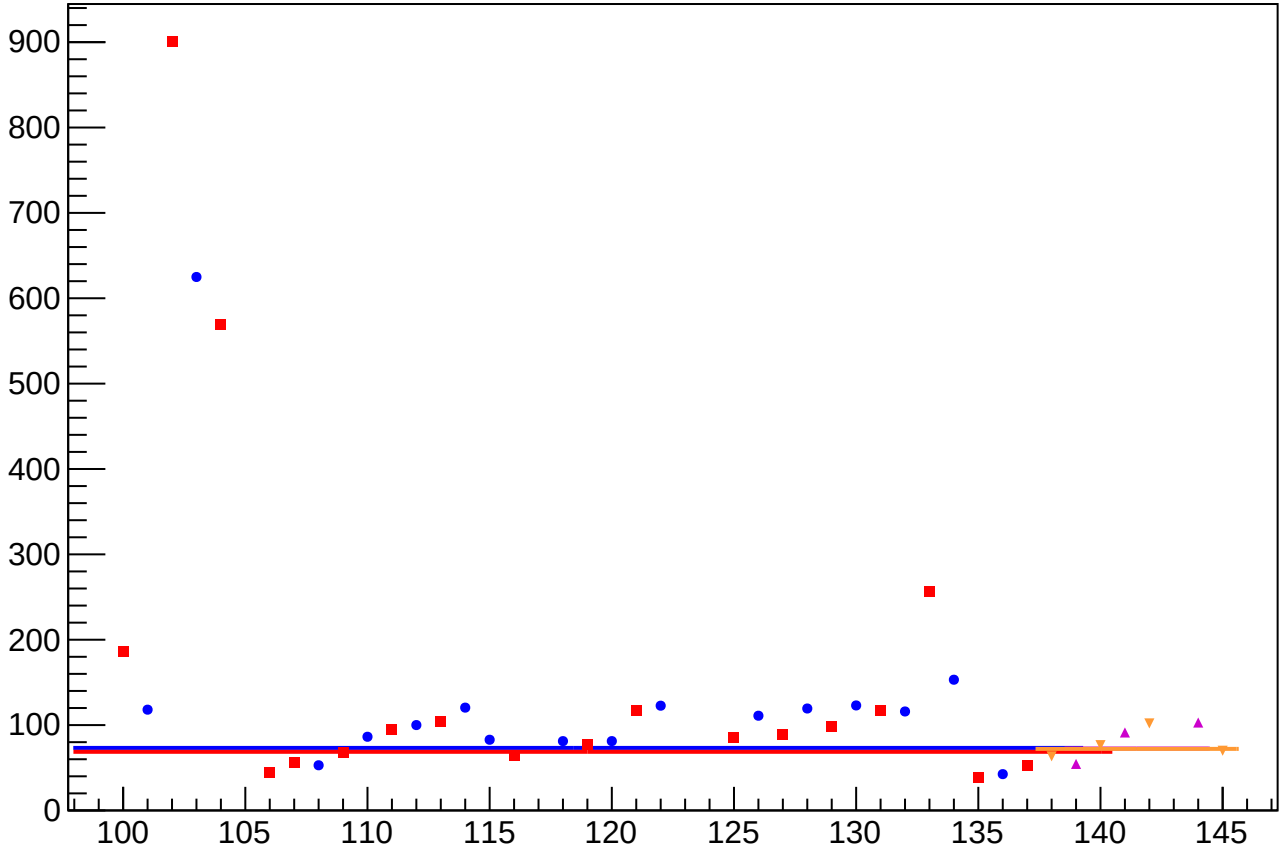
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.007+/-0.027 $\chi^2$/NDF:13.5/18

Out: -0.023+/-0.026 $\chi^2$/NDF:17.4/21

All: -0.008+/-0.019 $\chi^2$/NDF: 31.5/40

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: 72.132+/-0.034 $\chi^2$/NDF:99962.5/3

Right Out: 68.713+/-0.022 $\chi^2$/NDF: 3332744.7/17

Left In: 72.551+/-0.035 $\chi^2$/NDF:362188.8/2

Left: 72.334+/-0.024 $\chi^2$/NDF: 462225.2/6

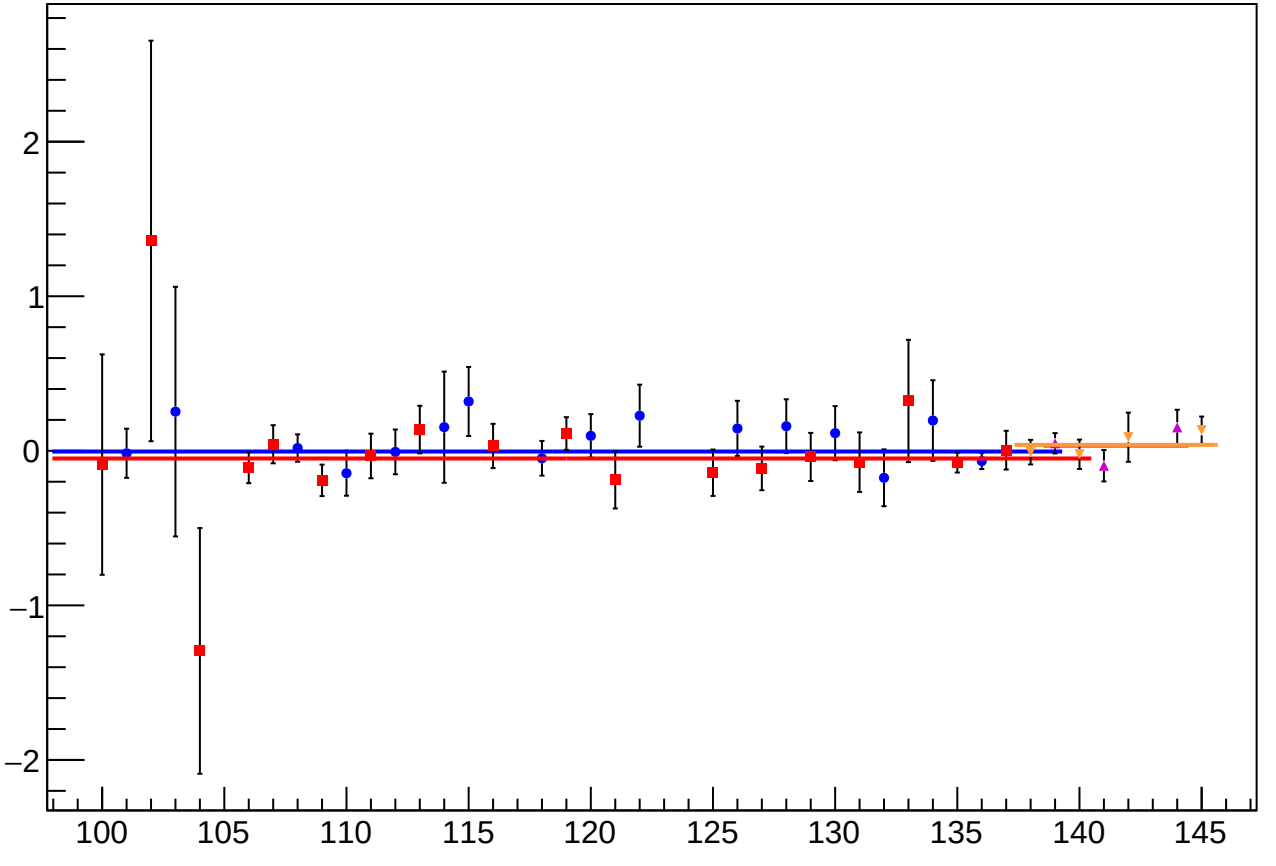
Right: 70.945+/-0.016 $\chi^2$/NDF: 6205307.5/33

In: 73.049+/-0.019 $\chi^2$/NDF:3214782.0/18

Out: 69.755+/-0.019 $\chi^2$/NDF:3439816.4/21

All: 71.363+/-0.013 $\chi^2$/NDF: 6669806.9/40

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: 0.038+/-0.048 $\chi^2$/NDF:2.0/3

Right Out: -0.050+/-0.032 $\chi^2$/NDF: 13.0/17

Left In: 0.034+/-0.050 $\chi^2$/NDF:2.8/2

Left: 0.036+/-0.034 $\chi^2$/NDF: 4.8/6

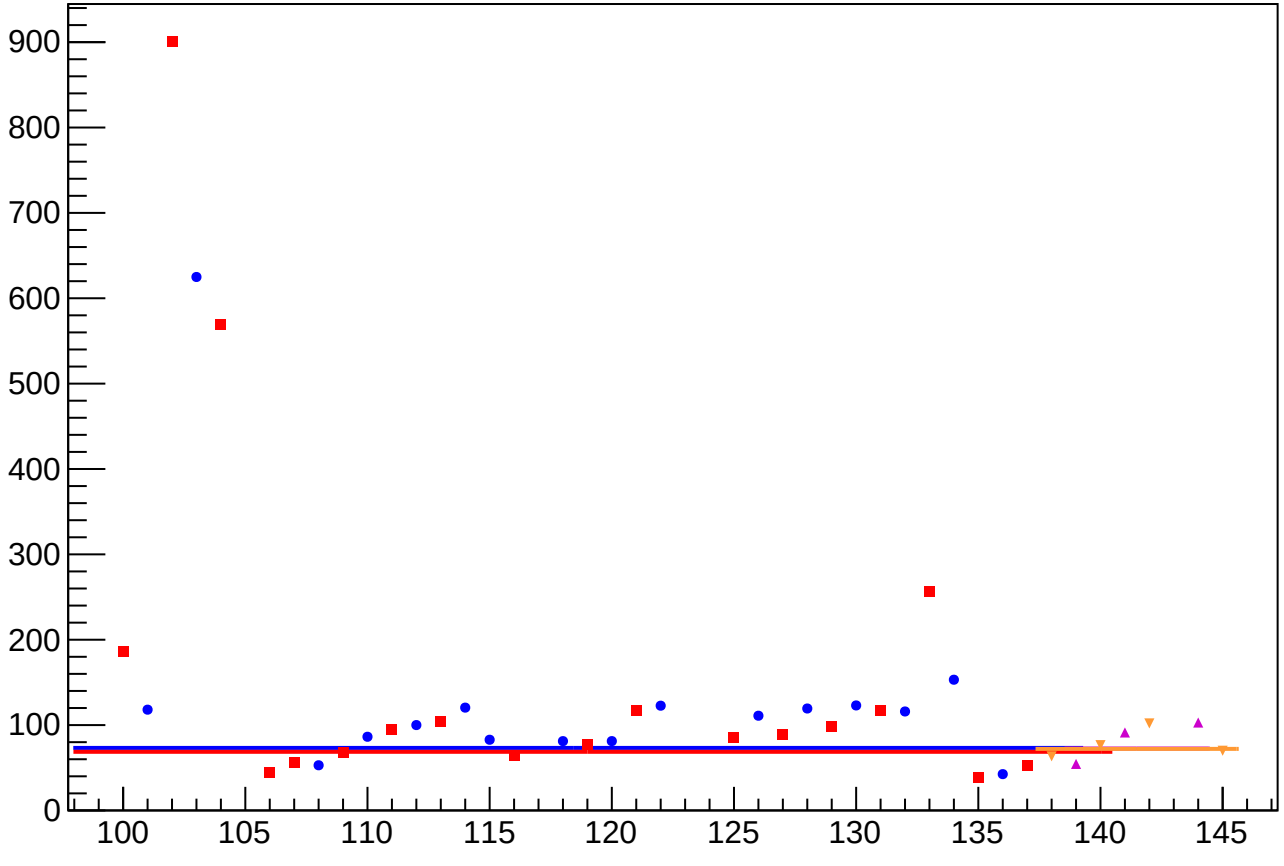
Right: -0.027+/-0.023 $\chi^2$/NDF: 24.3/33

In: 0.007+/-0.027 $\chi^2$/NDF:13.5/18

Out: -0.023+/-0.026 $\chi^2$/NDF:17.4/21

All: -0.008+/-0.019 $\chi^2$/NDF: 31.5/40

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 73.260+/-0.023 $\chi^2$/NDF: 2852306.8/15

Left Out: 72.132+/-0.034 $\chi^2$/NDF:99962.5/3

Right Out: 68.713+/-0.022 $\chi^2$/NDF: 3332744.7/17

Left In: 72.551+/-0.035 $\chi^2$/NDF:362188.8/2

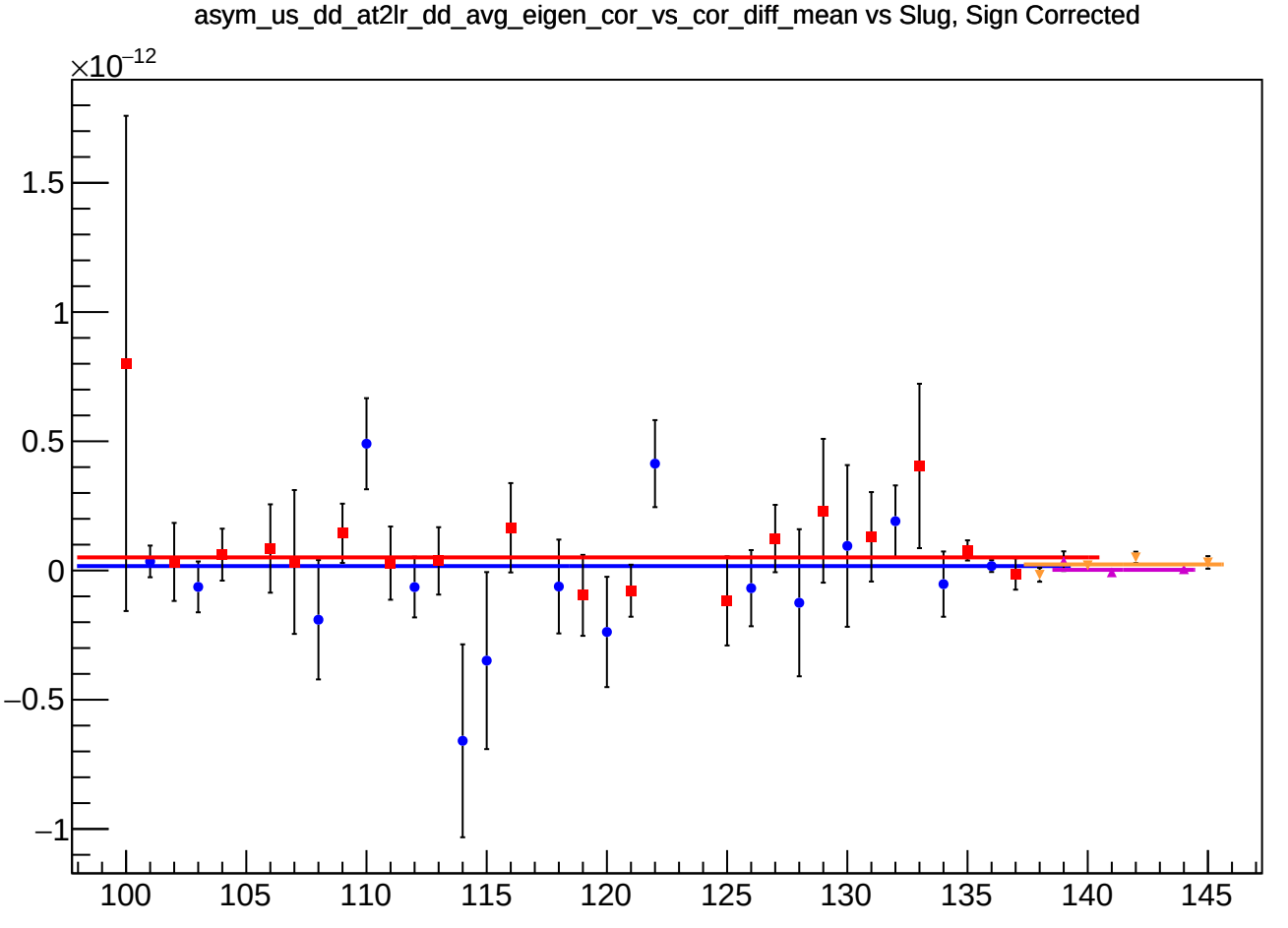
Left: 72.334+/-0.024 $\chi^2$/NDF: 462225.2/6

Right: 70.945+/-0.016 $\chi^2$/NDF: 6205307.5/33

In: 73.049+/-0.019 $\chi^2$/NDF:3214782.0/18

Out: 69.755+/-0.019 $\chi^2$/NDF:3439816.4/21

All: 71.363+/-0.013 $\chi^2$/NDF: 6669806.9/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.9/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9.1/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.1/2

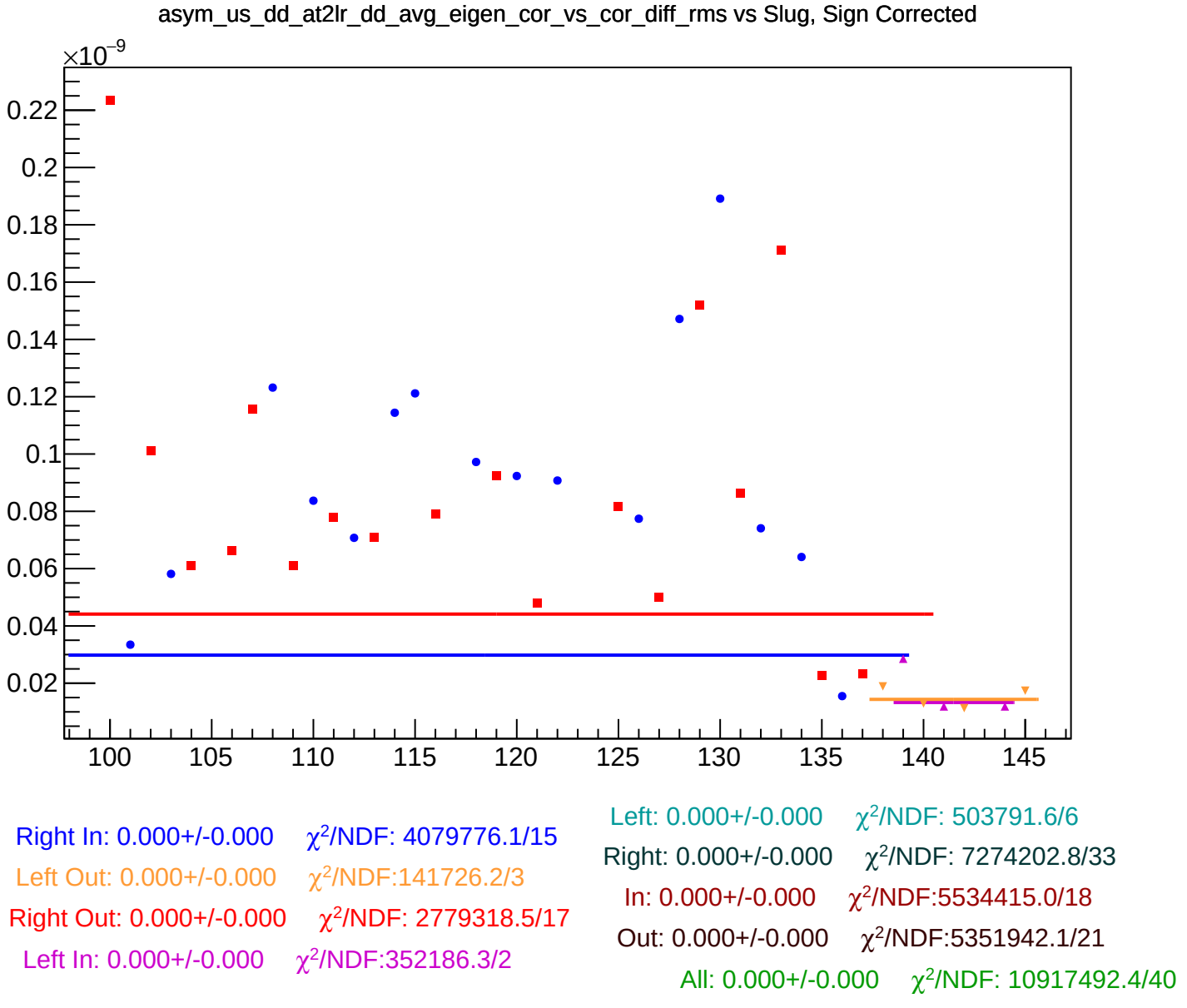
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.9/6

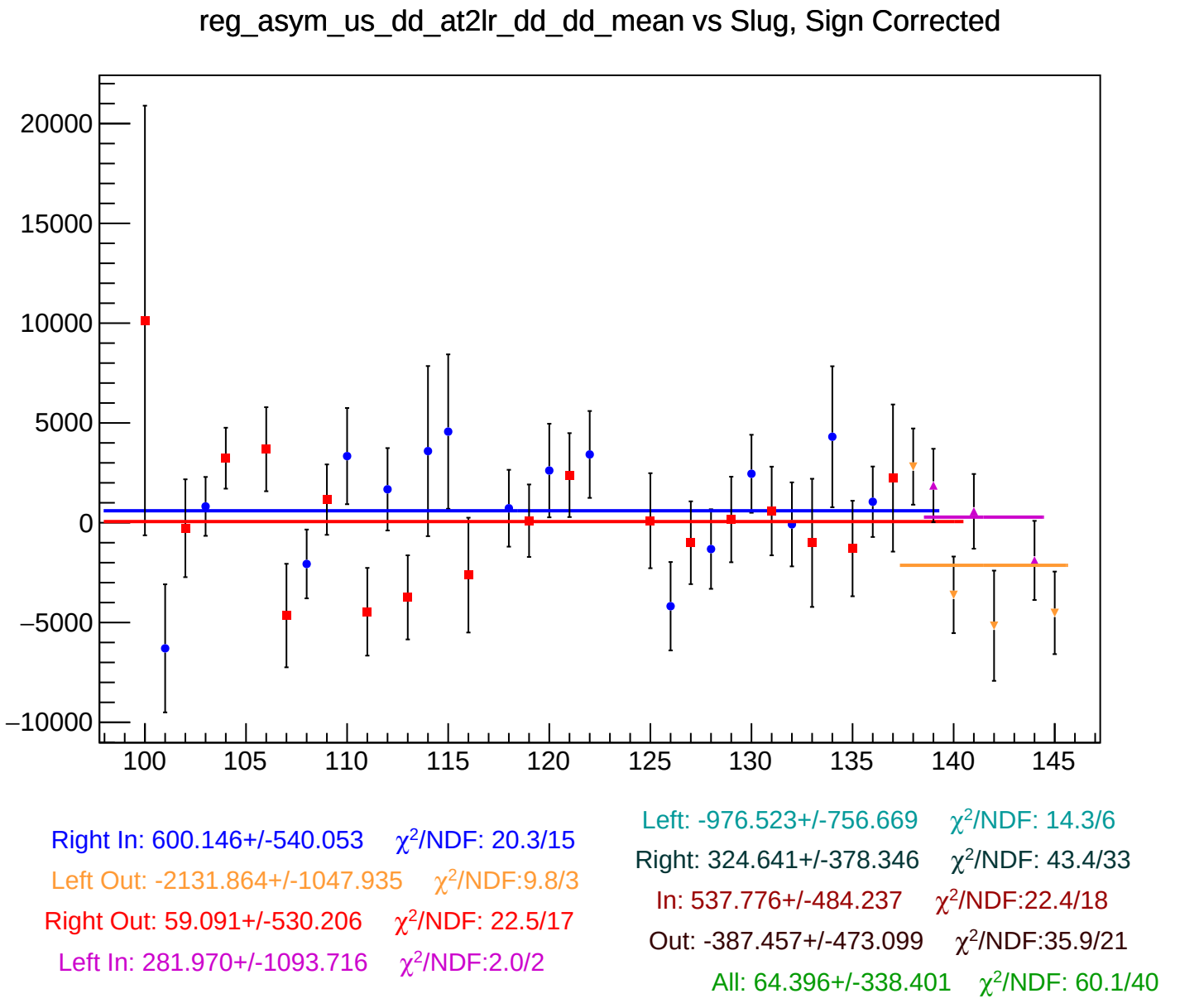
Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/33

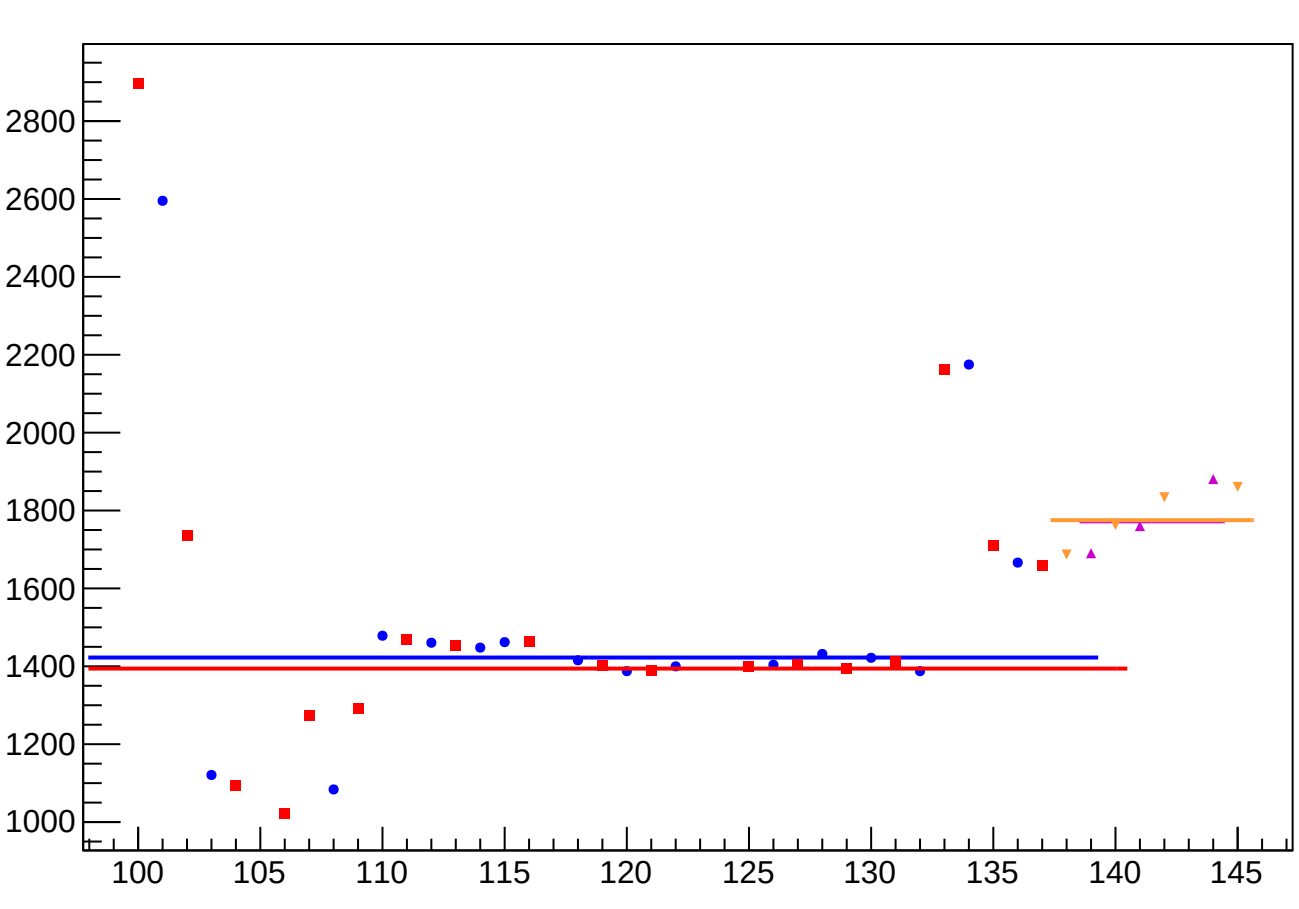
In: 0.000+/-0.000 $\chi^2$/NDF:24.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:14.0/21

All: 0.000+/-0.000 $\chi^2$/NDF: 41.4/40


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
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 4079776.1/15
Left Out: 0.000+/-0.000 χ²/NDF:141726.2/3
Right Out: 0.000+/-0.000 χ²/NDF: 2779318.5/17
Left In: 0.000+/-0.000 χ²/NDF:352186.3/2
Left: 0.000+/-0.000 χ²/NDF: 503791.6/6
Right: 0.000+/-0.000 χ²/NDF: 7274202.8/33
In: 0.000+/-0.000 χ²/NDF:5534415.0/18
Out: 0.000+/-0.000 χ²/NDF:5351942.1/21
All: 0.000+/-0.000 χ²/NDF: 10917492.4/40


reg_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: 600.146+/-540.053 χ²/NDF: 20.3/15
Left Out: -2131.864+/-1047.935 χ²/NDF:9.8/3
Right Out: 59.091+/-530.206 χ²/NDF: 22.5/17
Left In: 281.970+/-1093.716 χ²/NDF:2.0/2
Left: -976.523+/-756.669 χ²/NDF: 14.3/6
Right: 324.641+/-378.346 χ²/NDF: 43.4/33
In: 537.776+/-484.237 χ²/NDF:22.4/18
Out: -387.457+/-473.099 χ²/NDF:35.9/21
All: 64.396+/-338.401 χ²/NDF: 60.1/40




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.3/15

Left Out: 1775.268+/-0.741 $\chi^2$/NDF:8690.8/3

Right Out: 1394.171+/-0.375 $\chi^2$/NDF: 393666.0/17

Left In: 1772.243+/-0.773 $\chi^2$/NDF:10049.5/2

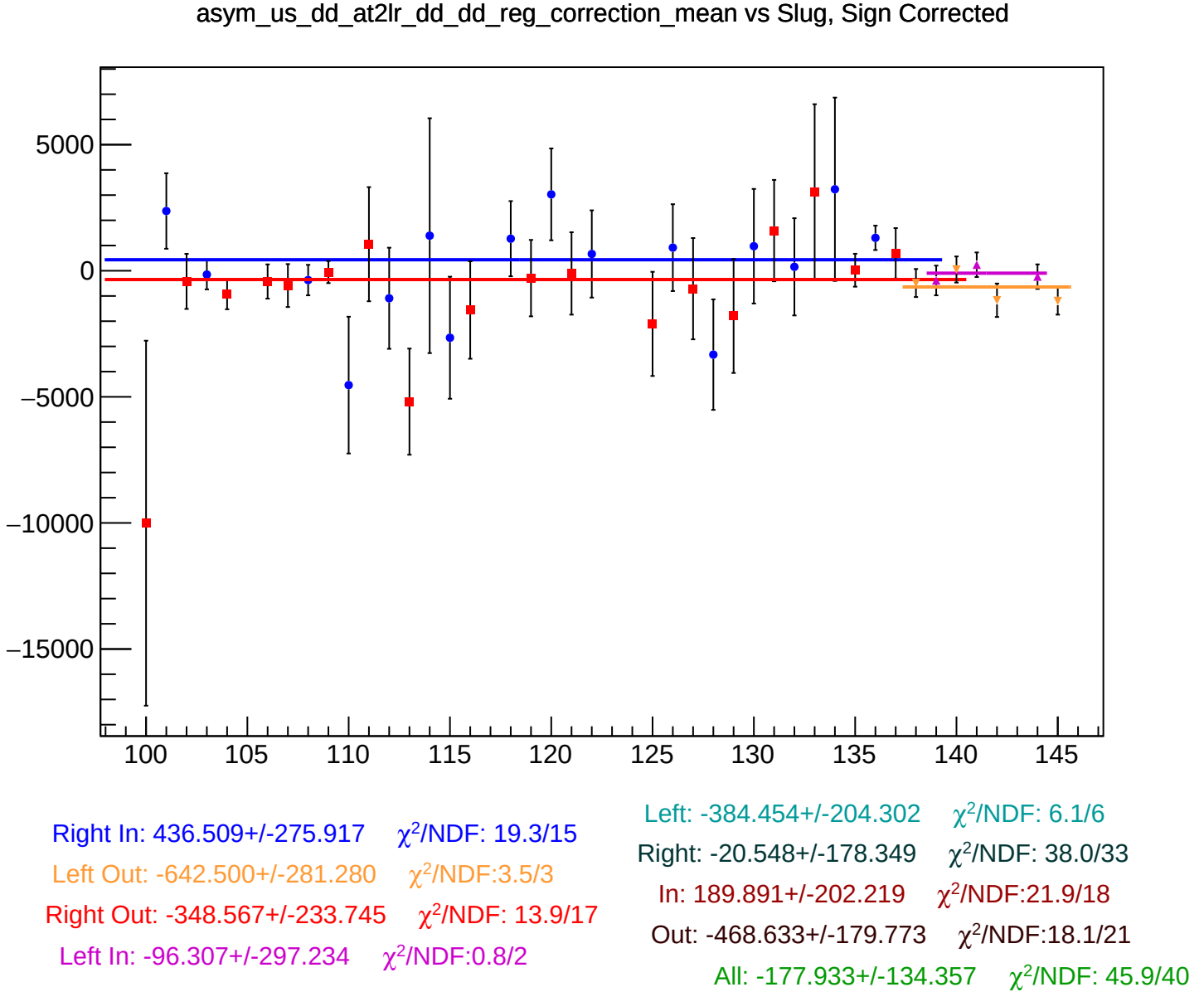
Left: 1773.820+/-0.535 $\chi^2$/NDF: 18748.3/6

Right: 1408.082+/-0.268 $\chi^2$/NDF: 956730.5/33

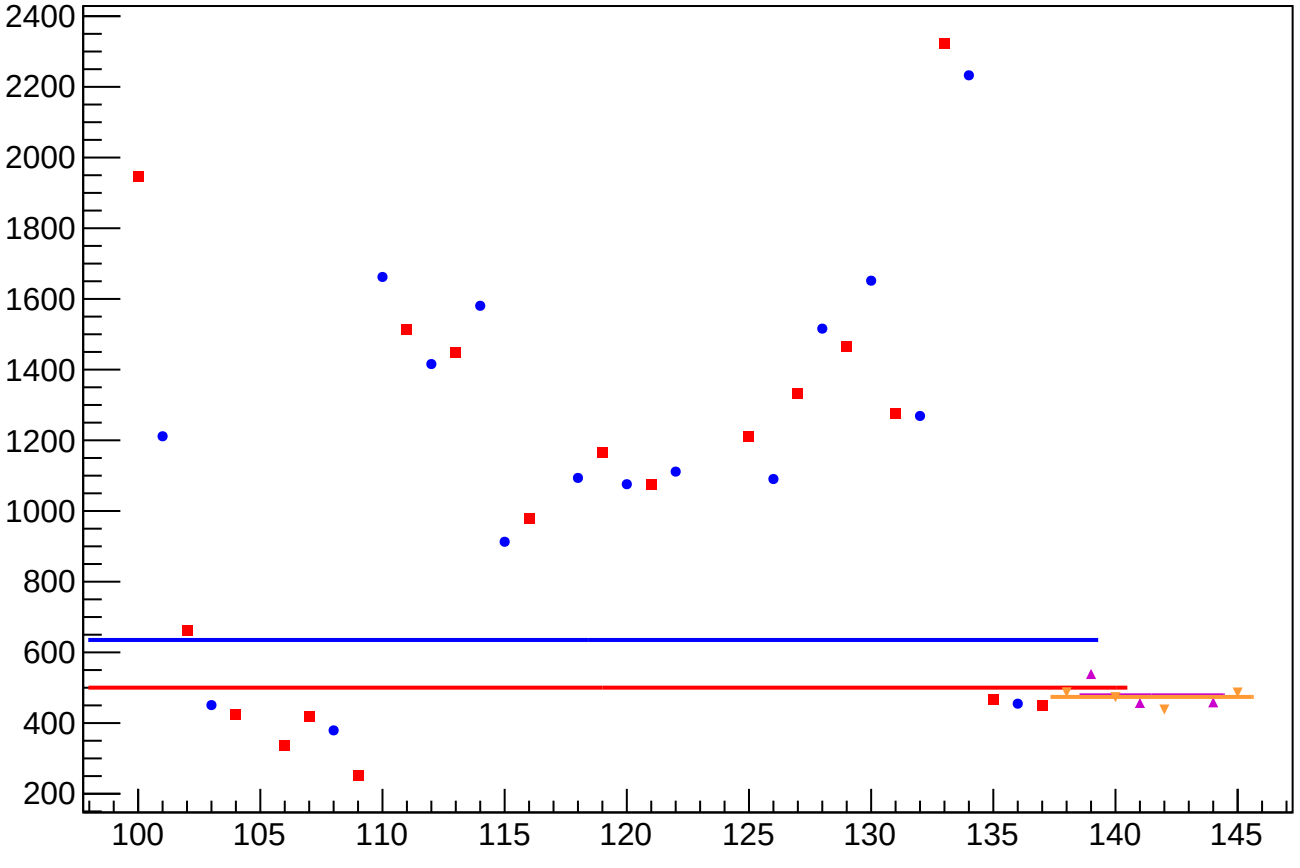
In: 1491.069+/-0.342 $\chi^2$/NDF:734717.9/18

Out: 1471.843+/-0.335 $\chi^2$/NDF:612951.7/21

All: 1481.233+/-0.239 $\chi^2$/NDF: 1349282.7/40


asym_us_dd_at2lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
100
105
110
115
120
125
130
135
140
145
Right In: 436.509+/-275.917 χ²/NDF: 19.3/15
Left Out: -642.500+/-281.280 χ²/NDF:3.5/3
Right Out: -348.567+/-233.745 χ²/NDF: 13.9/17
Left In: -96.307+/-297.234 χ²/NDF:0.8/2
Left: -384.454+/-204.302 χ²/NDF: 6.1/6
Right: -20.548+/-178.349 χ²/NDF: 38.0/33
In: 189.891+/-202.219 χ²/NDF:21.9/18
Out: -468.633+/-179.773 χ²/NDF:18.1/21
All: -177.933+/-134.357 χ²/NDF: 45.9/40

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: 473.991+/-0.199 $\chi^2$/NDF:7934.7/3

Right Out: 500.231+/-0.165 $\chi^2$/NDF: 4309093.1/17

Left In: 478.476+/-0.210 $\chi^2$/NDF:28356.6/2

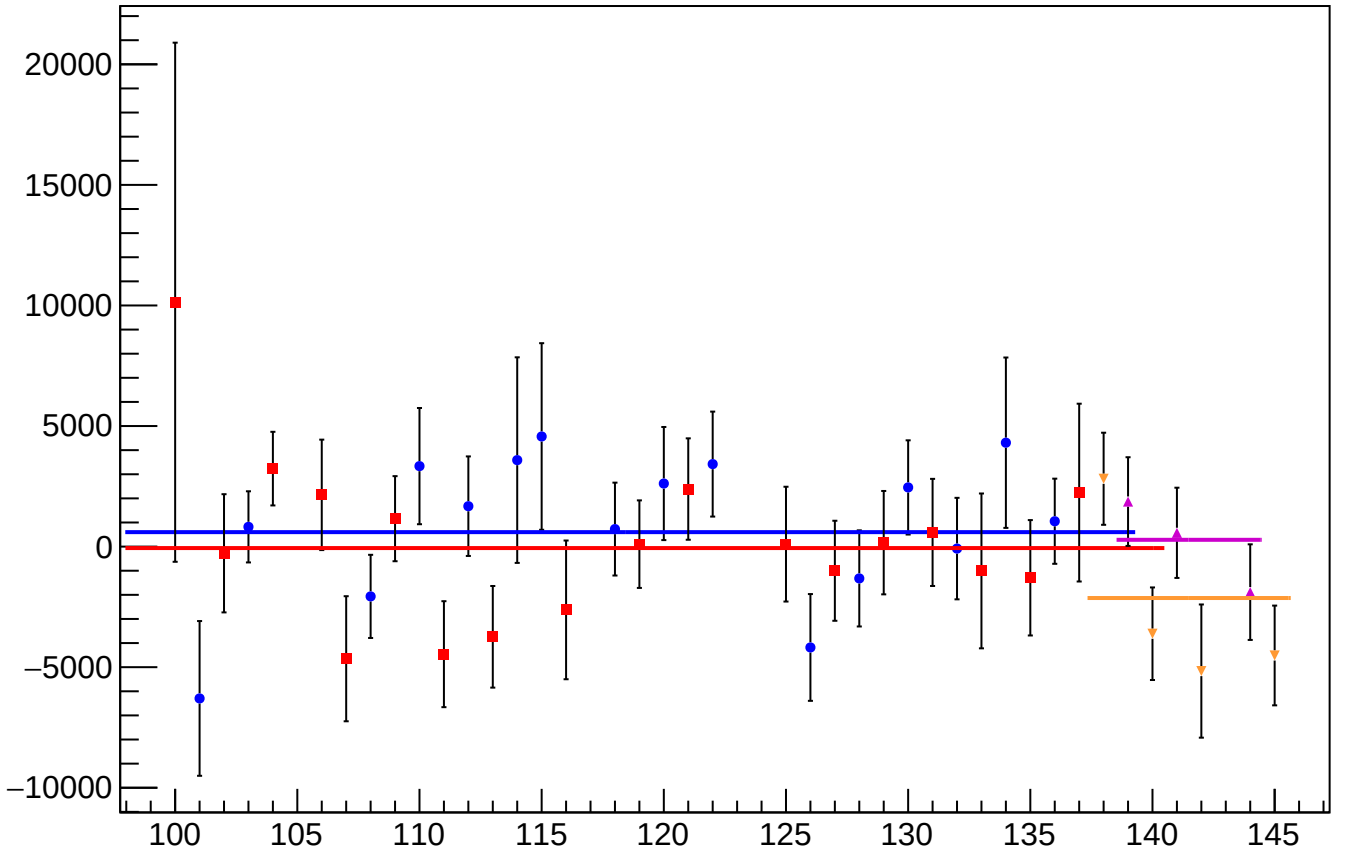
Left: 476.110+/-0.144 $\chi^2$/NDF: 36531.5/6

Right: 556.596+/-0.126 $\chi^2$/NDF: 8340019.1/33

In: 562.624+/-0.143 $\chi^2$/NDF:4079363.2/18

Out: 489.513+/-0.127 $\chi^2$/NDF:4327323.3/21

All: 521.787+/-0.095 $\chi^2$/NDF: 8552709.2/40




Right In: 600.020+/-540.053 $\chi^2$/NDF: 20.3/15

Left Out: -2131.964+/-1047.935 $\chi^2$/NDF:9.8/3

Right Out: -60.361+/-532.826 $\chi^2$/NDF: 20.4/17

Left In: 282.003+/-1093.716 $\chi^2$/NDF:2.0/2

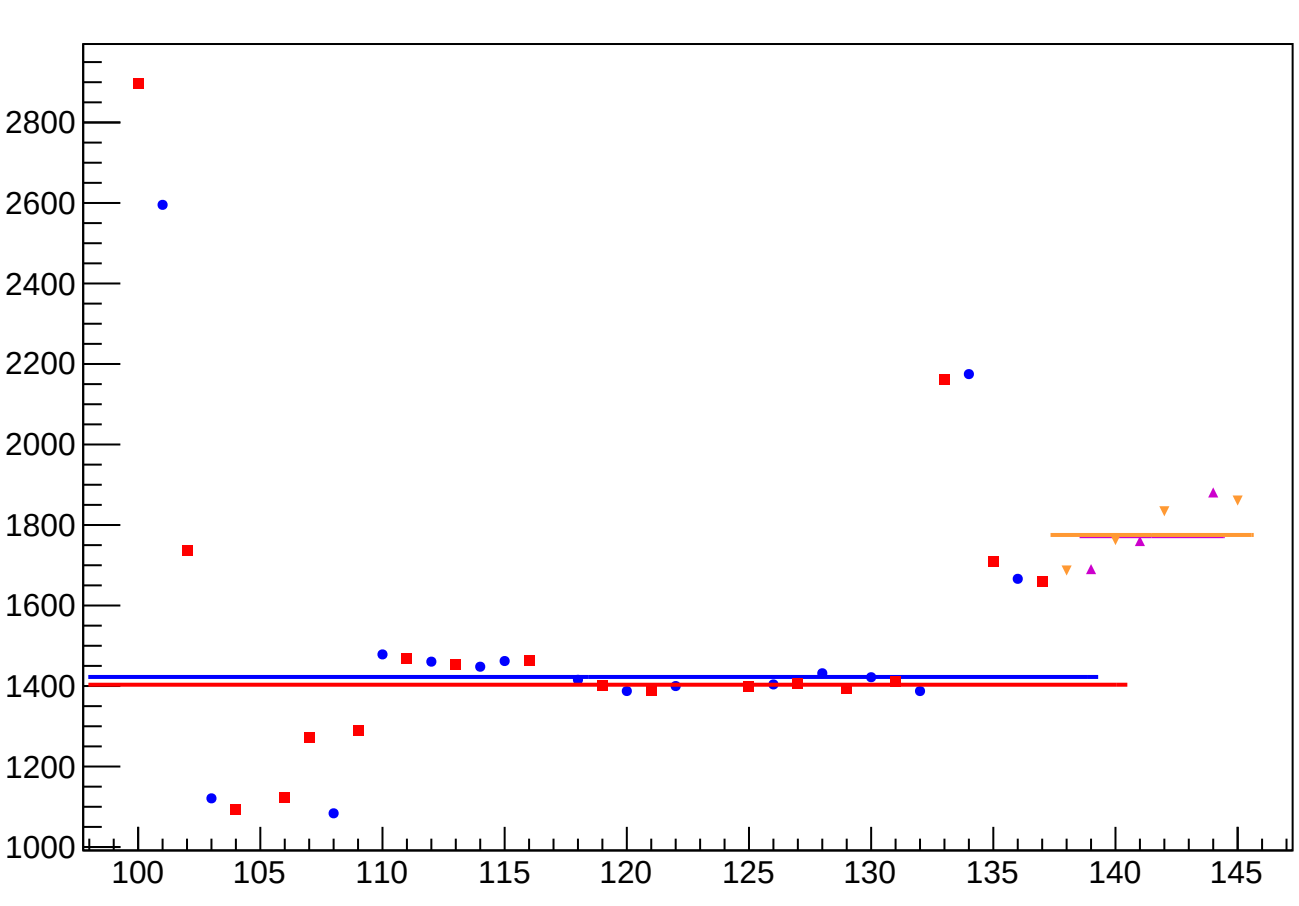
Left: -976.559+/-756.669 $\chi^2$/NDF: 14.3/6

Right: 265.381+/-379.294 $\chi^2$/NDF: 41.4/33

In: 537.681+/-484.237 $\chi^2$/NDF:22.4/18

Out: -485.908+/-474.958 $\chi^2$/NDF:33.3/21

All: 15.985+/-339.079 $\chi^2$/NDF: 57.9/40




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.5/15

Left Out: 1775.268+/-0.741 $\chi^2$/NDF:8690.8/3

Right Out: 1403.220+/-0.377 $\chi^2$/NDF: 359113.5/17

Left In: 1772.243+/-0.773 $\chi^2$/NDF:10049.5/2

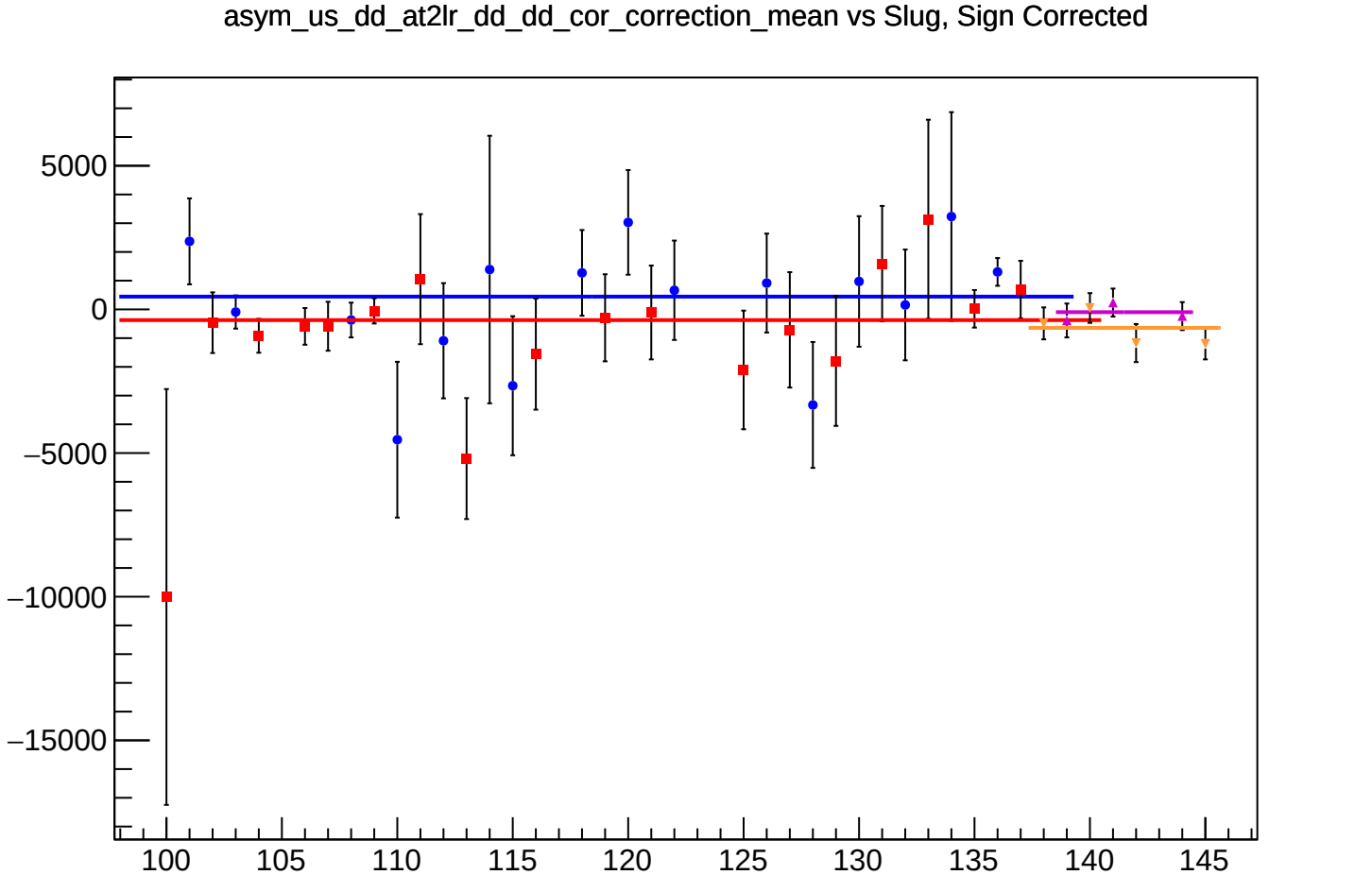
Left: 1773.820+/-0.535 $\chi^2$/NDF: 18748.3/6

Right: 1412.737+/-0.268 $\chi^2$/NDF: 920666.7/33

In: 1491.069+/-0.342 $\chi^2$/NDF:734718.2/18

Out: 1479.645+/-0.336 $\chi^2$/NDF:568112.5/21

All: 1485.247+/-0.240 $\chi^2$/NDF: 1303398.1/40




Right In: 445.121+/-274.737 $\chi^2$/NDF: 19.2/15

Left Out: -642.590+/-281.293 $\chi^2$/NDF:3.5/3

Right Out: -372.538+/-231.353 $\chi^2$/NDF: 14.0/17

Left In: -96.418+/-297.231 $\chi^2$/NDF:0.8/2

Left: -384.539+/-204.307 $\chi^2$/NDF: 6.1/6

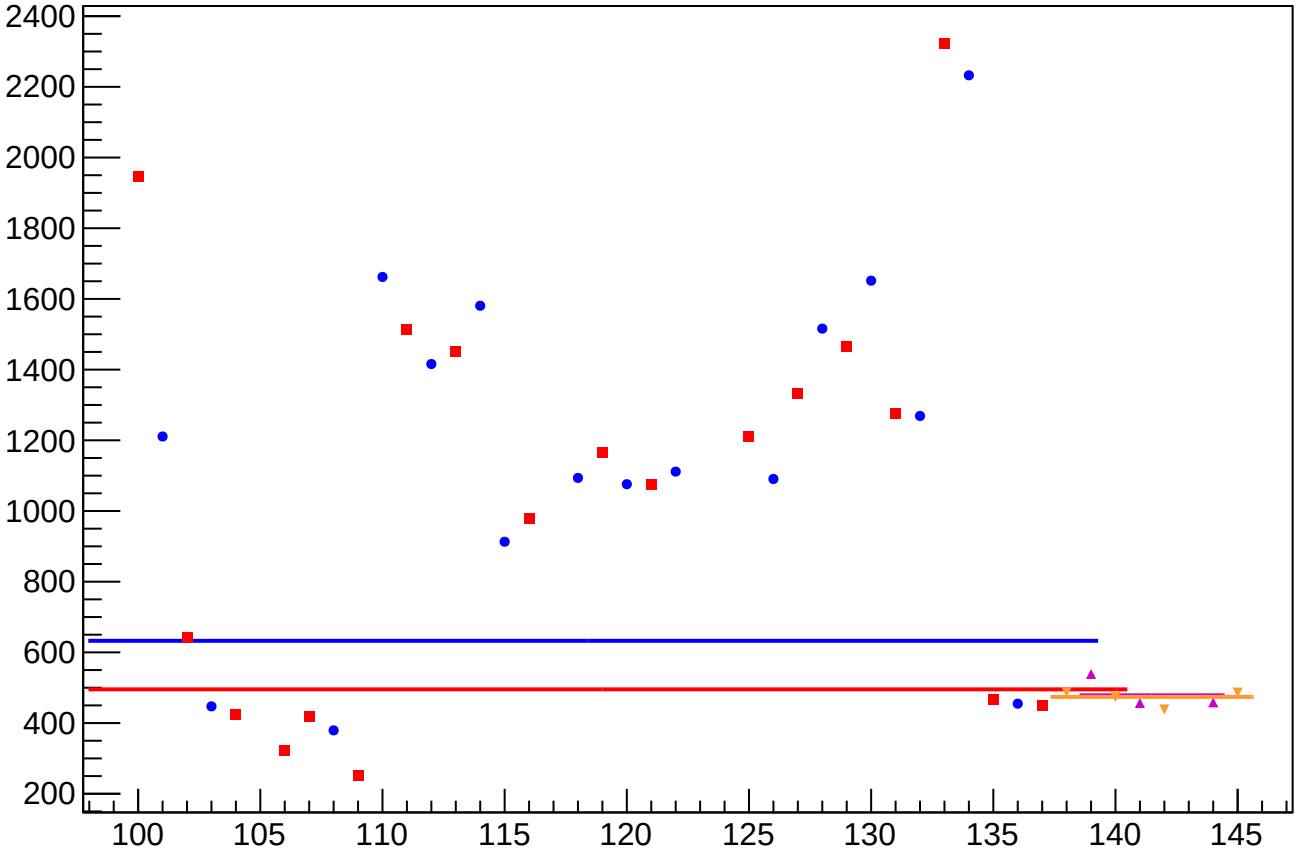
Right: -33.290+/-176.966 $\chi^2$/NDF: 38.4/33

In: 195.616+/-201.753 $\chi^2$/NDF:21.8/18

Out: -481.504+/-178.682 $\chi^2$/NDF:18.1/21

All: -183.856+/-133.764 $\chi^2$/NDF: 46.2/40

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 632.753+/-0.194 $\chi^2$/NDF: 3767731.7/15

Left Out: 474.016+/-0.199 $\chi^2$/NDF:7916.4/3

Right Out: 495.380+/-0.164 $\chi^2$/NDF: 4337484.8/17

Left In: 478.471+/-0.210 $\chi^2$/NDF:28356.6/2

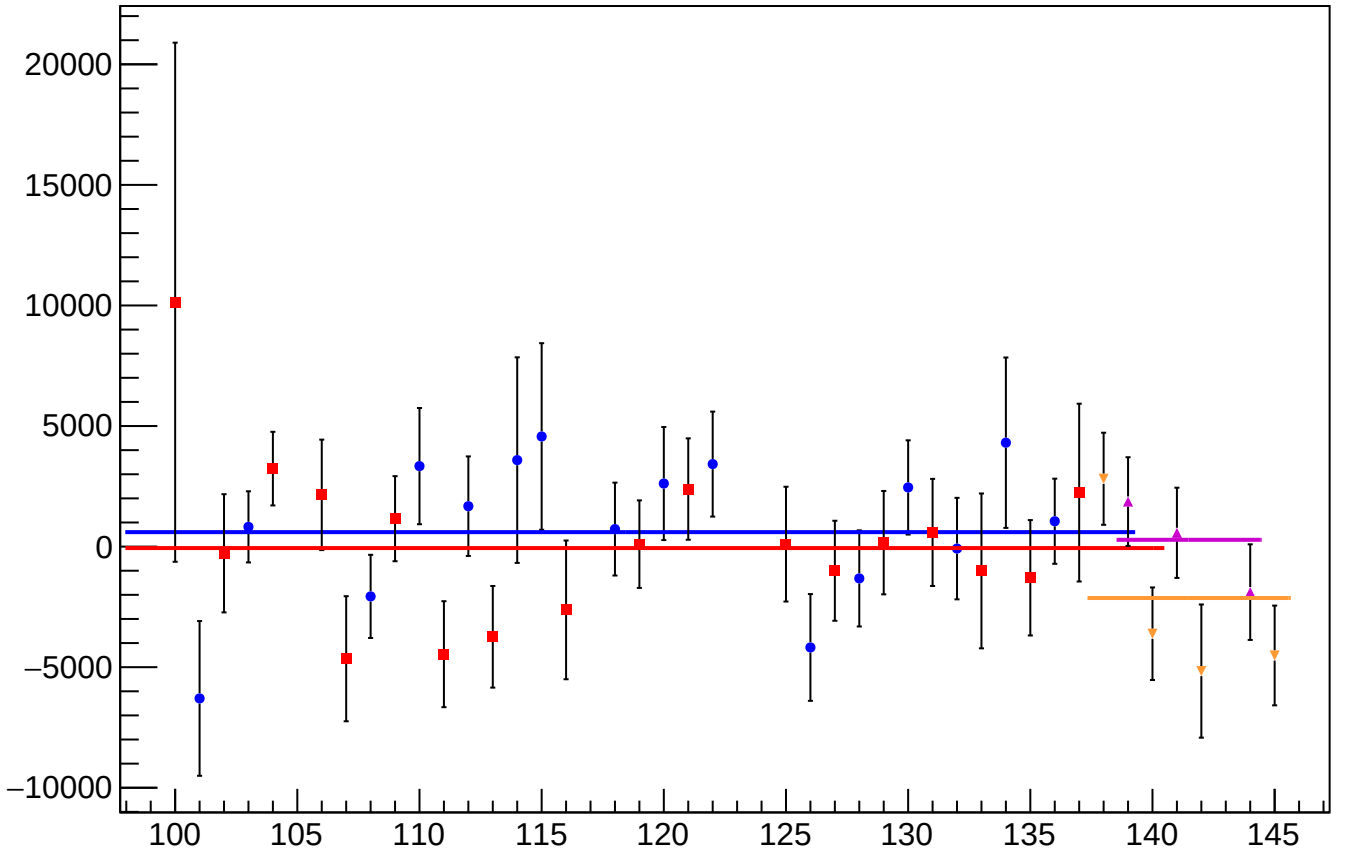
Left: 476.120+/-0.144 $\chi^2$/NDF: 36510.0/6

Right: 552.376+/-0.125 $\chi^2$/NDF: 8397783.6/33

In: 561.670+/-0.143 $\chi^2$/NDF:4086675.2/18

Out: 486.759+/-0.126 $\chi^2$/NDF:4352283.0/21

All: 519.689+/-0.095 $\chi^2$/NDF: 8593480.2/40




Right In: 600.020+/-540.053 $\chi^2$/NDF: 20.3/15

Left Out: -2131.964+/-1047.935 $\chi^2$/NDF:9.8/3

Right Out: -60.361+/-532.826 $\chi^2$/NDF: 20.4/17

Left In: 282.003+/-1093.716 $\chi^2$/NDF:2.0/2

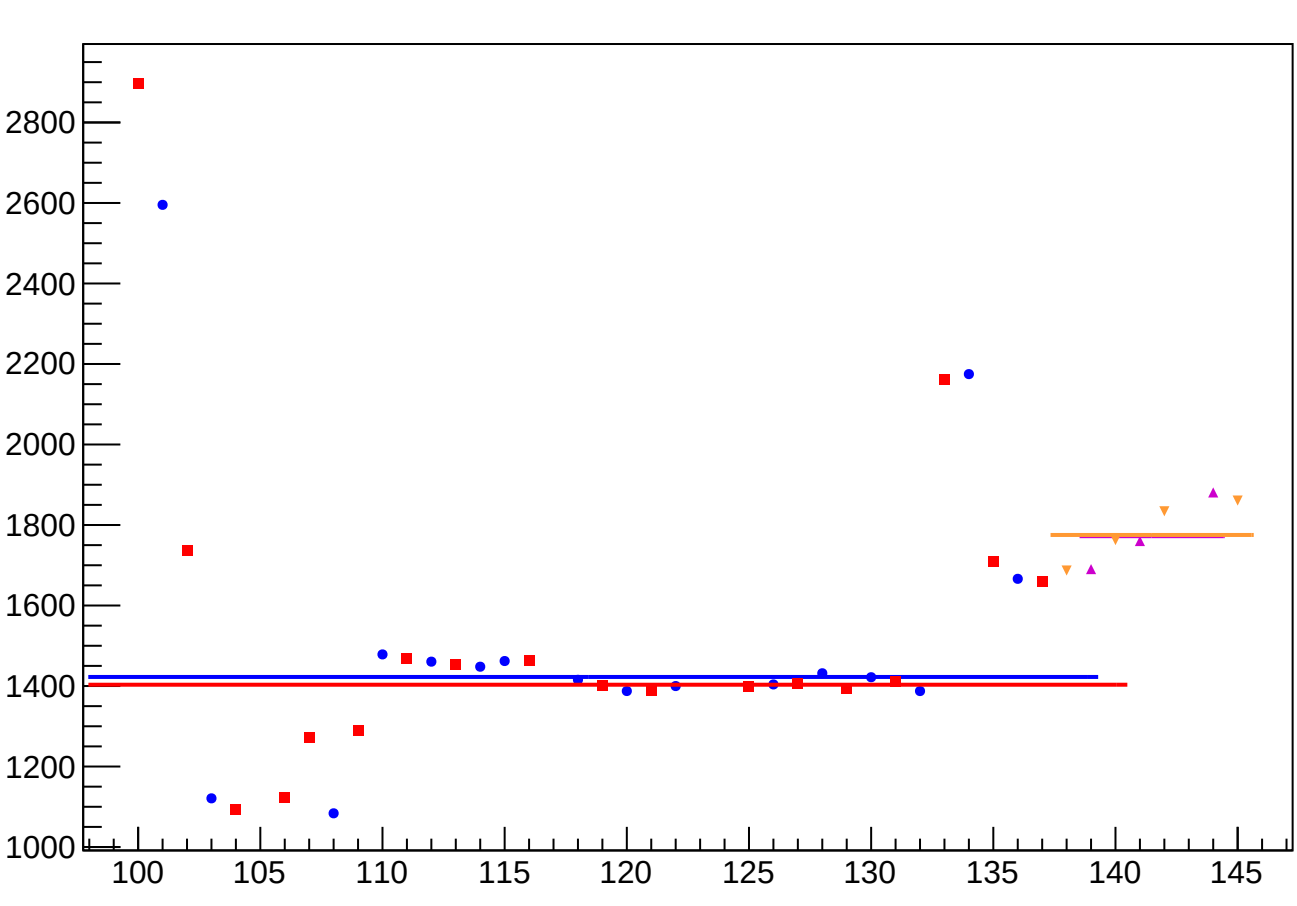
Left: -976.559+/-756.669 $\chi^2$/NDF: 14.3/6

Right: 265.381+/-379.294 $\chi^2$/NDF: 41.4/33

In: 537.681+/-484.237 $\chi^2$/NDF:22.4/18

Out: -485.908+/-474.958 $\chi^2$/NDF:33.3/21

All: 15.985+/-339.079 $\chi^2$/NDF: 57.9/40




Right In: 1422.515+/-0.382 $\chi^2$/NDF: 560259.5/15

Left Out: 1775.268+/-0.741 $\chi^2$/NDF:8690.8/3

Right Out: 1403.220+/-0.377 $\chi^2$/NDF: 359113.5/17

Left In: 1772.243+/-0.773 $\chi^2$/NDF:10049.5/2

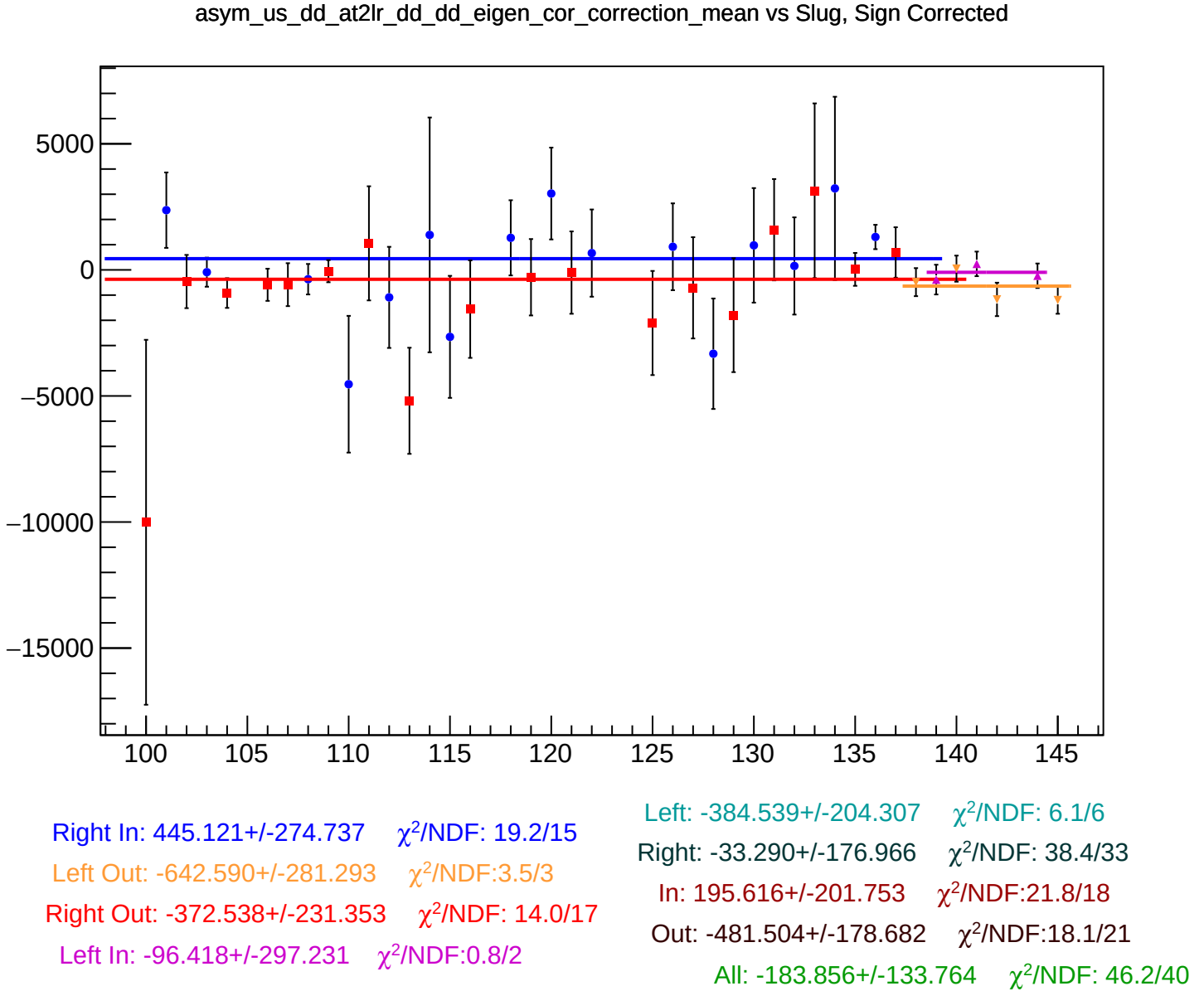
Left: 1773.820+/-0.535 $\chi^2$/NDF: 18748.3/6

Right: 1412.737+/-0.268 $\chi^2$/NDF: 920666.7/33

In: 1491.069+/-0.342 $\chi^2$/NDF:734718.2/18

Out: 1479.645+/-0.336 $\chi^2$/NDF:568112.5/21

All: 1485.247+/-0.240 $\chi^2$/NDF: 1303398.1/40


asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
5000
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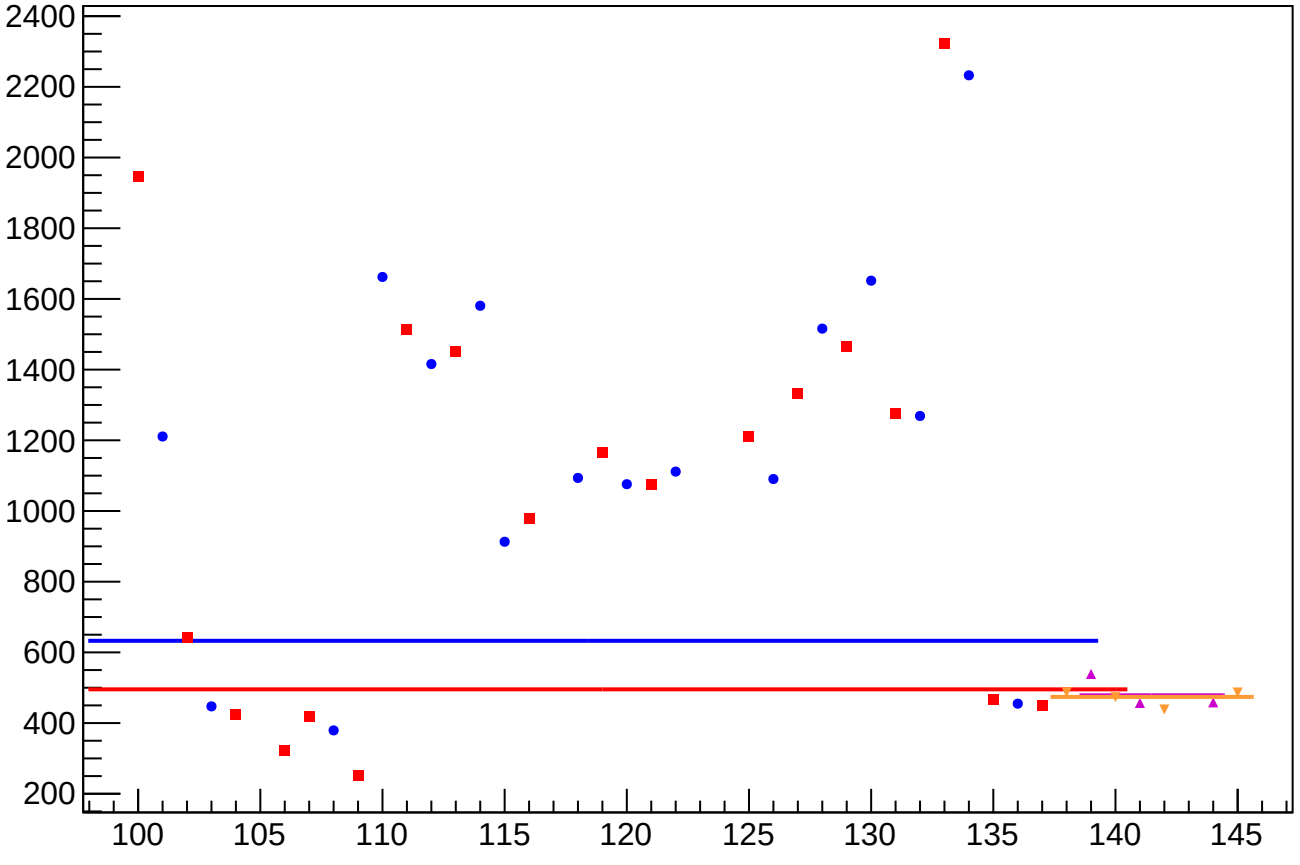
−5000
−10000
−15000
100
105
110
115
120
125
130
135
140
145
Right In: 445.121+/-274.737 χ²/NDF: 19.2/15
Left Out: -642.590+/-281.293 χ²/NDF:3.5/3
Right Out: -372.538+/-231.353 χ²/NDF: 14.0/17
Left In: -96.418+/-297.231 χ²/NDF:0.8/2
Left: -384.539+/-204.307 χ²/NDF: 6.1/6
Right: -33.290+/-176.966 χ²/NDF: 38.4/33
In: 195.616+/-201.753 χ²/NDF:21.8/18
Out: -481.504+/-178.682 χ²/NDF:18.1/21
All: -183.856+/-133.764 χ²/NDF: 46.2/40

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: 474.016+/-0.199 $\chi^2$/NDF:7916.4/3

Right Out: 495.380+/-0.164 $\chi^2$/NDF: 4337484.8/17

Left In: 478.471+/-0.210 $\chi^2$/NDF:28356.6/2

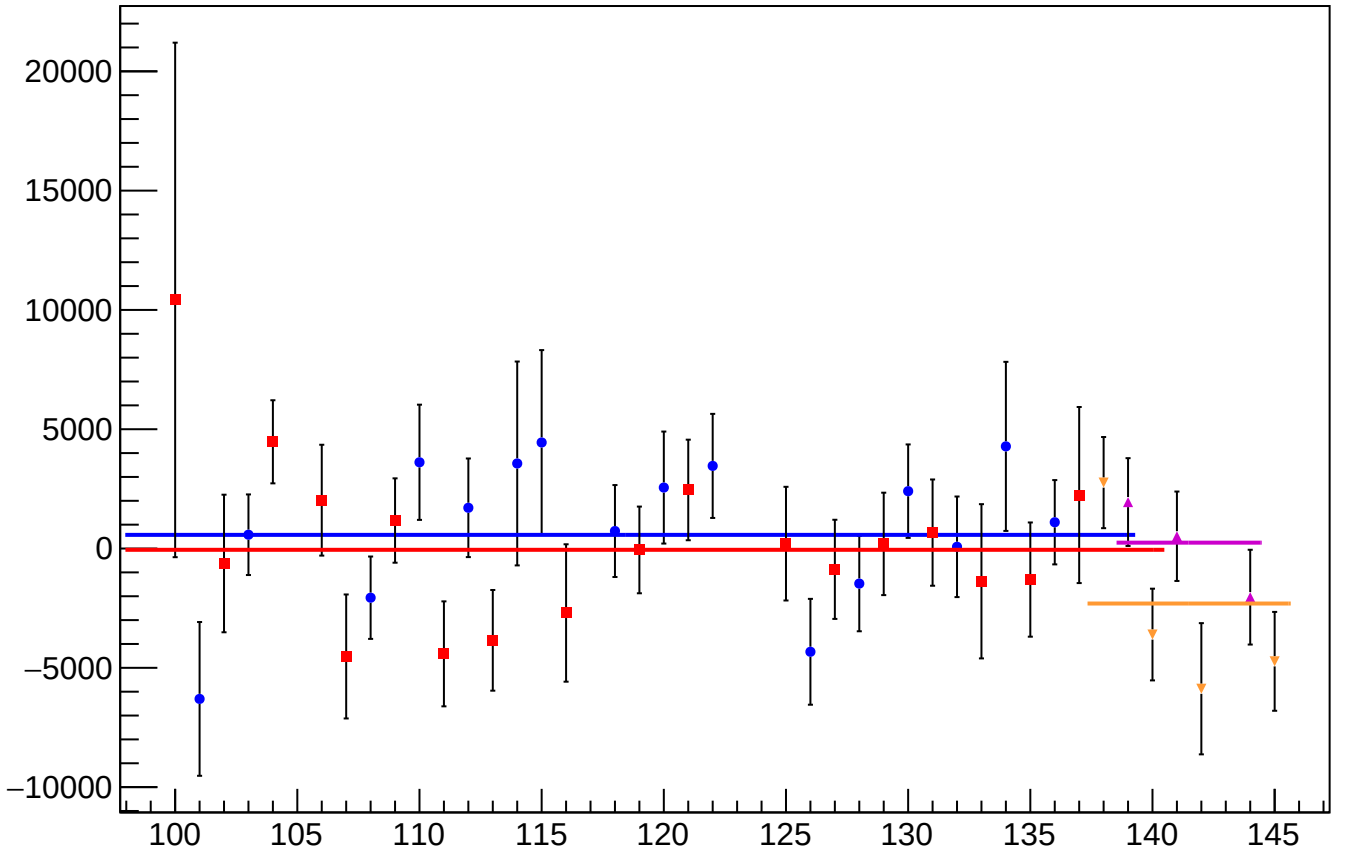
Left: 476.120+/-0.144 $\chi^2$/NDF: 36510.0/6

Right: 552.376+/-0.125 $\chi^2$/NDF: 8397783.6/33

In: 561.670+/-0.143 $\chi^2$/NDF:4086675.2/18

Out: 486.759+/-0.126 $\chi^2$/NDF:4352283.0/21

All: 519.689+/-0.095 $\chi^2$/NDF: 8593480.2/40




Right In: 572.289+/-549.638 $\chi^2$/NDF: 20.8/15

Left Out: -2305.088+/-1048.300 $\chi^2$/NDF:10.6/3

Right Out: -53.754+/-545.353 $\chi^2$/NDF: 22.5/17

Left In: 245.912+/-1095.285 $\chi^2$/NDF:2.2/2

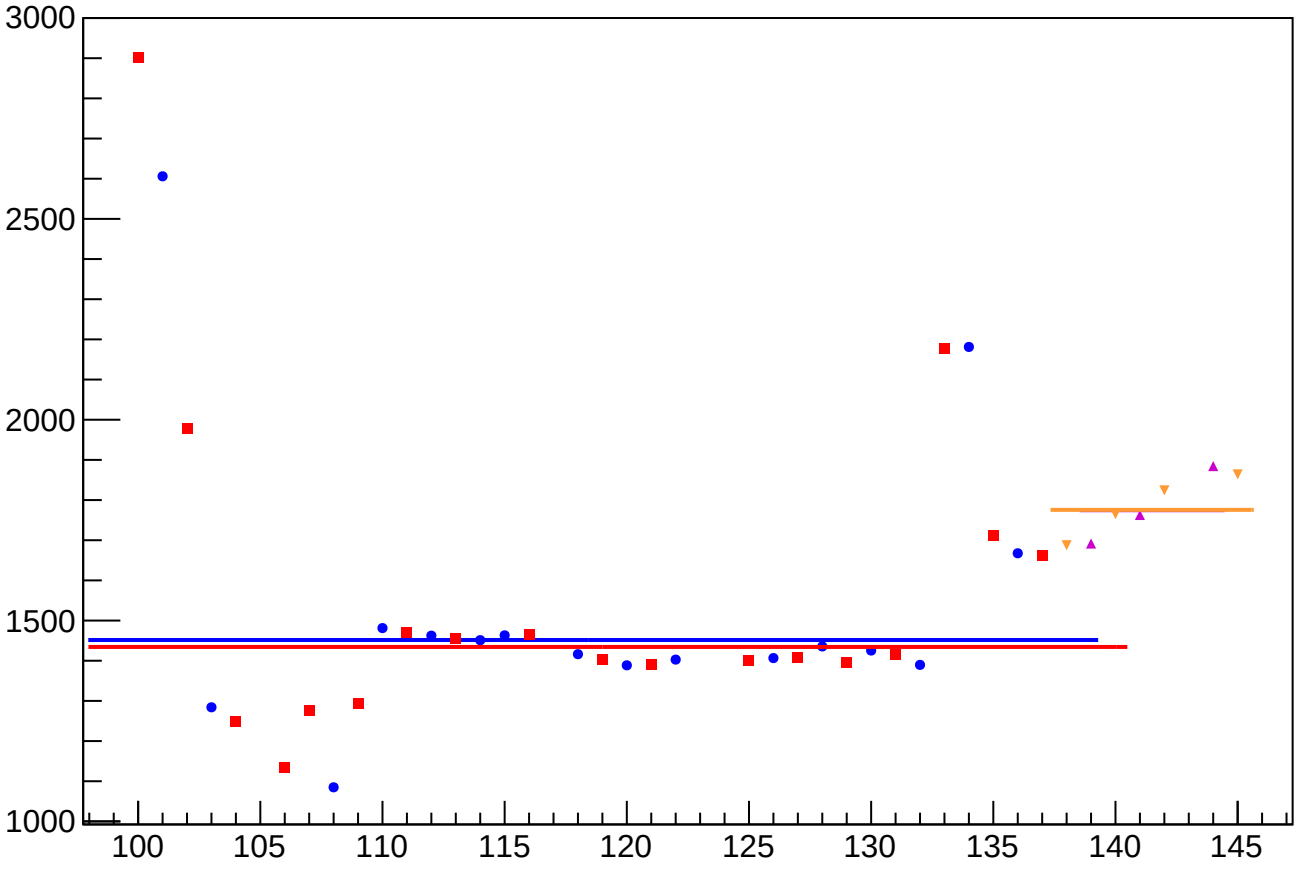
Left: -1085.477+/-757.326 $\chi^2$/NDF: 15.6/6

Right: 256.817+/-387.129 $\chi^2$/NDF: 43.9/33

In: 506.633+/-491.253 $\chi^2$/NDF:23.0/18

Out: -533.270+/-483.801 $\chi^2$/NDF:36.7/21

All: -21.265+/-344.703 $\chi^2$/NDF: 62.0/40




Right In: 1451.579+/-0.389 $\chi^2$/NDF: 487836.7/15

Left Out: 1775.570+/-0.741 $\chi^2$/NDF:8566.1/3

Right Out: 1434.321+/-0.386 $\chi^2$/NDF: 328590.5/17

Left In: 1774.717+/-0.774 $\chi^2$/NDF:10254.4/2

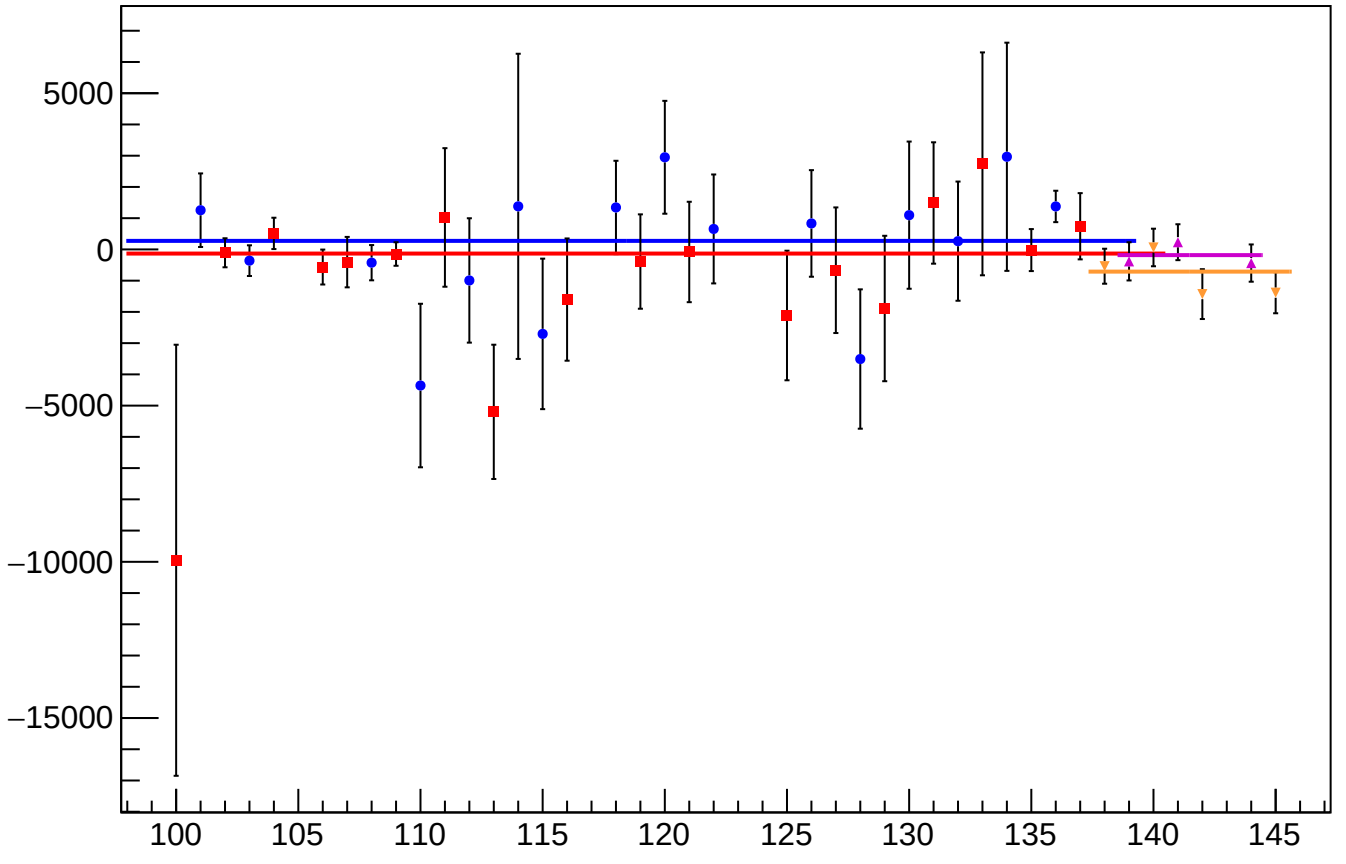
Left: 1775.162+/-0.536 $\chi^2$/NDF: 18821.1/6

Right: 1442.883+/-0.274 $\chi^2$/NDF: 817420.7/33

In: 1516.584+/-0.347 $\chi^2$/NDF:637153.2/18

Out: 1507.004+/-0.342 $\chi^2$/NDF:503950.6/21

All: 1511.721+/-0.244 $\chi^2$/NDF: 1141489.9/40




Right In: 273.439+/-260.537 $\chi^2$/NDF: 20.2/15

Left Out: -710.378+/-318.922 $\chi^2$/NDF:3.6/3

Right Out: -132.573+/-195.933 $\chi^2$/NDF: 14.4/17

Left In: -182.328+/-342.640 $\chi^2$/NDF:0.8/2

Left: -465.260+/-233.447 $\chi^2$/NDF: 5.7/6

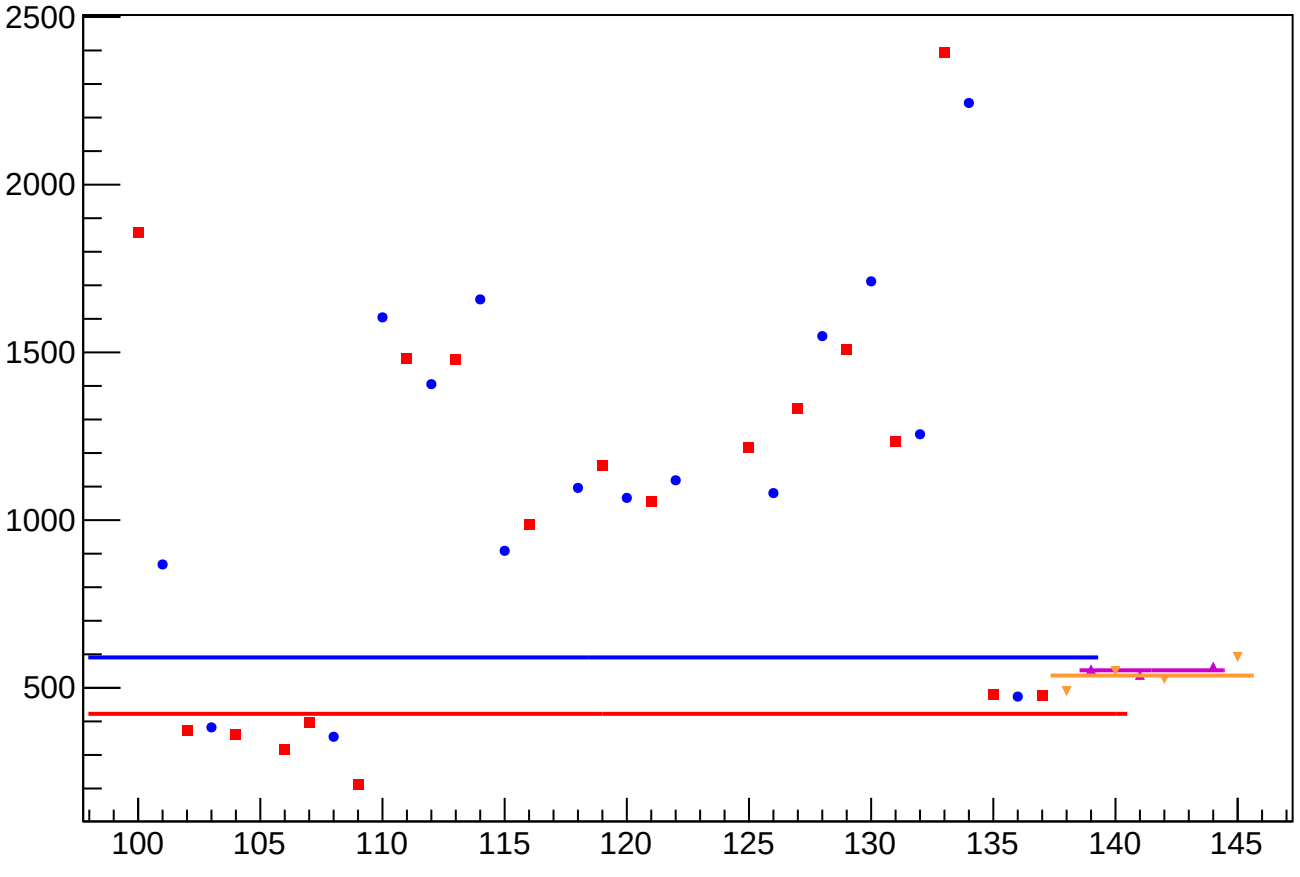
Right: 14.100+/-156.593 $\chi^2$/NDF: 36.2/33

In: 106.465+/-207.391 $\chi^2$/NDF:22.1/18

Out: -290.900+/-166.945 $\chi^2$/NDF:20.4/21

All: -134.657+/-130.046 $\chi^2$/NDF: 44.8/40

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: 536.761+/-0.226 $\chi^2$/NDF:29264.8/3

Right Out: 422.629+/-0.139 $\chi^2$/NDF: 4858014.6/17

Left In: 552.283+/-0.242 $\chi^2$/NDF:1850.9/2

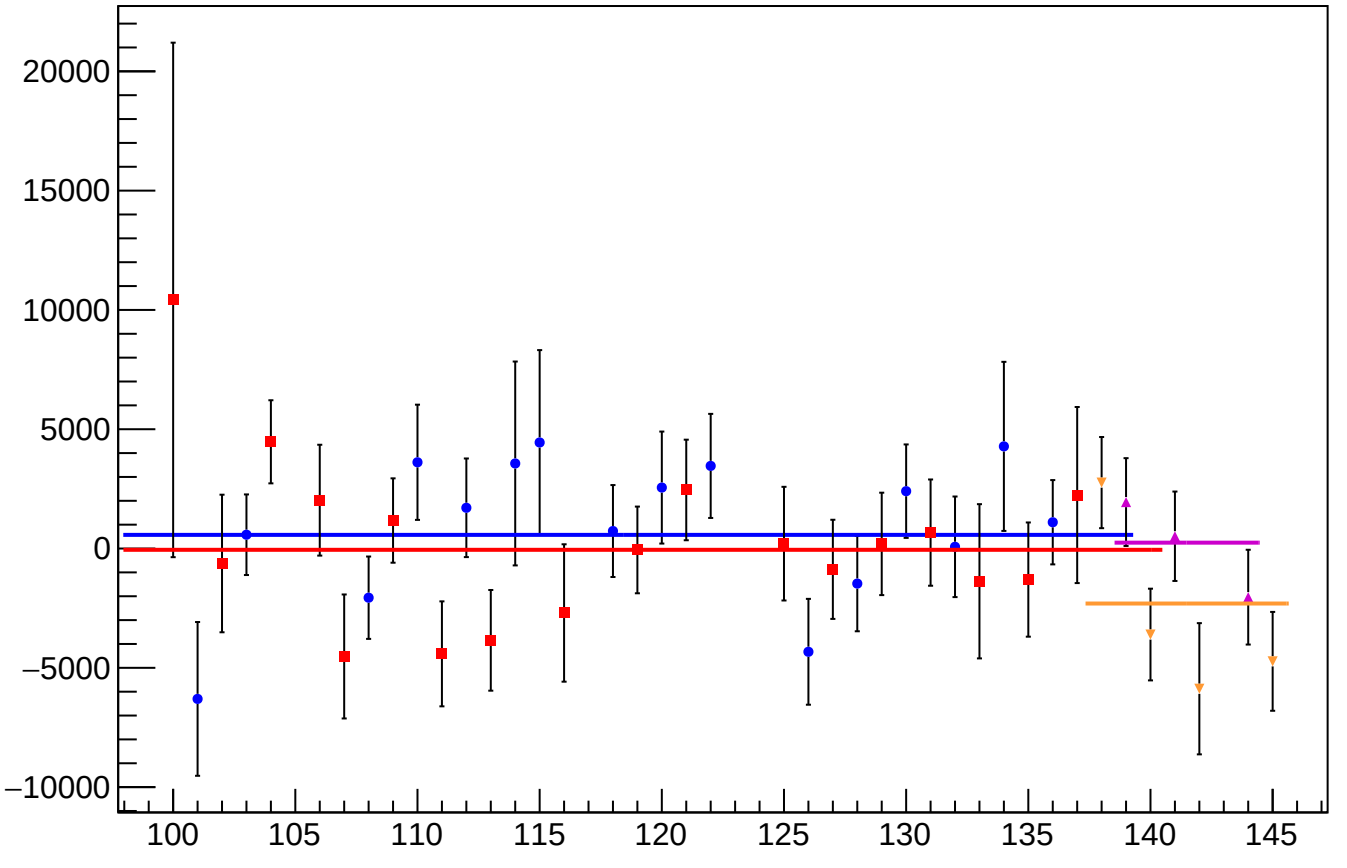
Left: 543.966+/-0.165 $\chi^2$/NDF: 33314.8/6

Right: 483.362+/-0.111 $\chi^2$/NDF: 9275456.5/33

In: 576.657+/-0.147 $\chi^2$/NDF:3903324.8/18

Out: 453.903+/-0.118 $\chi^2$/NDF:5073234.9/21

All: 502.169+/-0.092 $\chi^2$/NDF: 9401732.6/40




Right In: 572.290+/-549.638 $\chi^2$/NDF: 20.8/15

Left Out: -2305.100+/-1048.300 $\chi^2$/NDF:10.6/3

Right Out: -53.752+/-545.353 $\chi^2$/NDF: 22.5/17

Left In: 245.898+/-1095.286 $\chi^2$/NDF:2.2/2

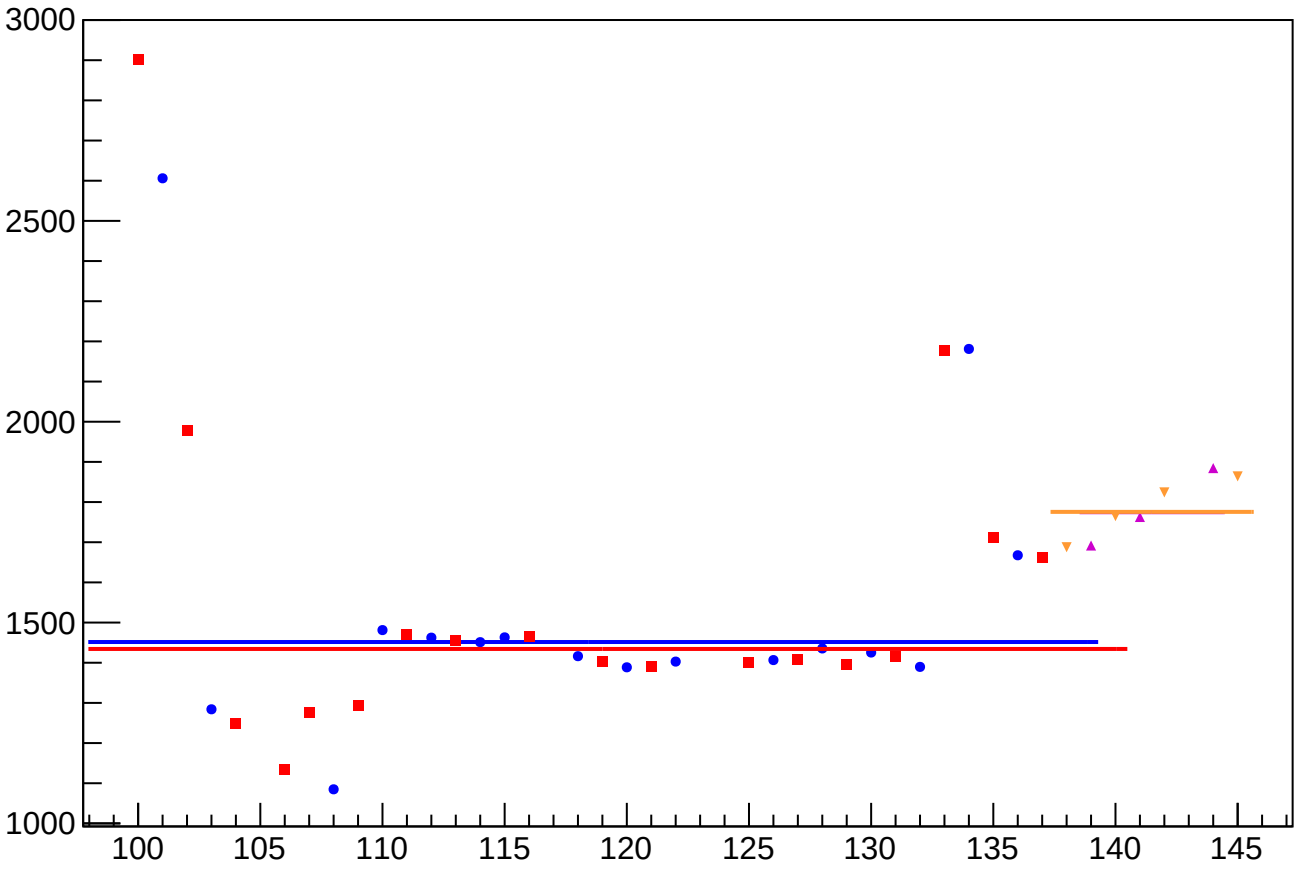
Left: -1085.490+/-757.326 $\chi^2$/NDF: 15.6/6

Right: 256.819+/-387.129 $\chi^2$/NDF: 43.9/33

In: 506.631+/-491.253 $\chi^2$/NDF:23.0/18

Out: -533.271+/-483.801 $\chi^2$/NDF:36.7/21

All: -21.266+/-344.703 $\chi^2$/NDF: 62.0/40




Right In: 1451.579+/-0.389 $\chi^2$/NDF: 487836.2/15

Left Out: 1775.570+/-0.741 $\chi^2$/NDF:8566.1/3

Right Out: 1434.321+/-0.386 $\chi^2$/NDF: 328590.5/17

Left In: 1774.718+/-0.774 $\chi^2$/NDF:10254.4/2

Left: 1775.163+/-0.536 $\chi^2$/NDF: 18821.1/6

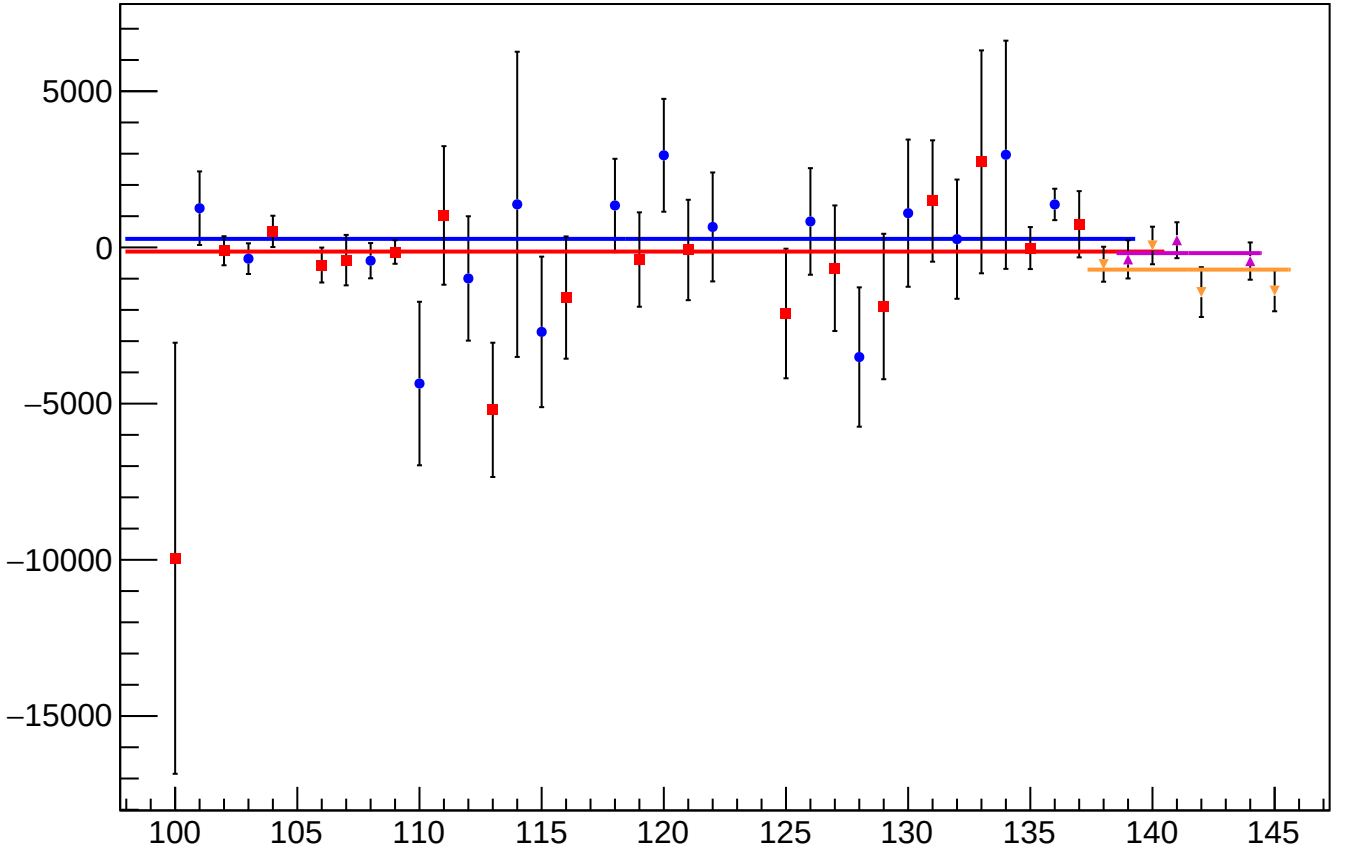
Right: 1442.883+/-0.274 $\chi^2$/NDF: 817420.3/33

In: 1516.584+/-0.347 $\chi^2$/NDF:637153.0/18

Out: 1507.004+/-0.342 $\chi^2$/NDF:503950.9/21

All: 1511.721+/-0.244 $\chi^2$/NDF: 1141489.9/40

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 273.429+/-260.536 $\chi^2$/NDF: 20.2/15

Left Out: -710.397+/-318.929 $\chi^2$/NDF:3.6/3

Right Out: -132.567+/-195.935 $\chi^2$/NDF: 14.4/17

Left In: -182.339+/-342.647 $\chi^2$/NDF:0.8/2

Left: -465.275+/-233.452 $\chi^2$/NDF: 5.7/6

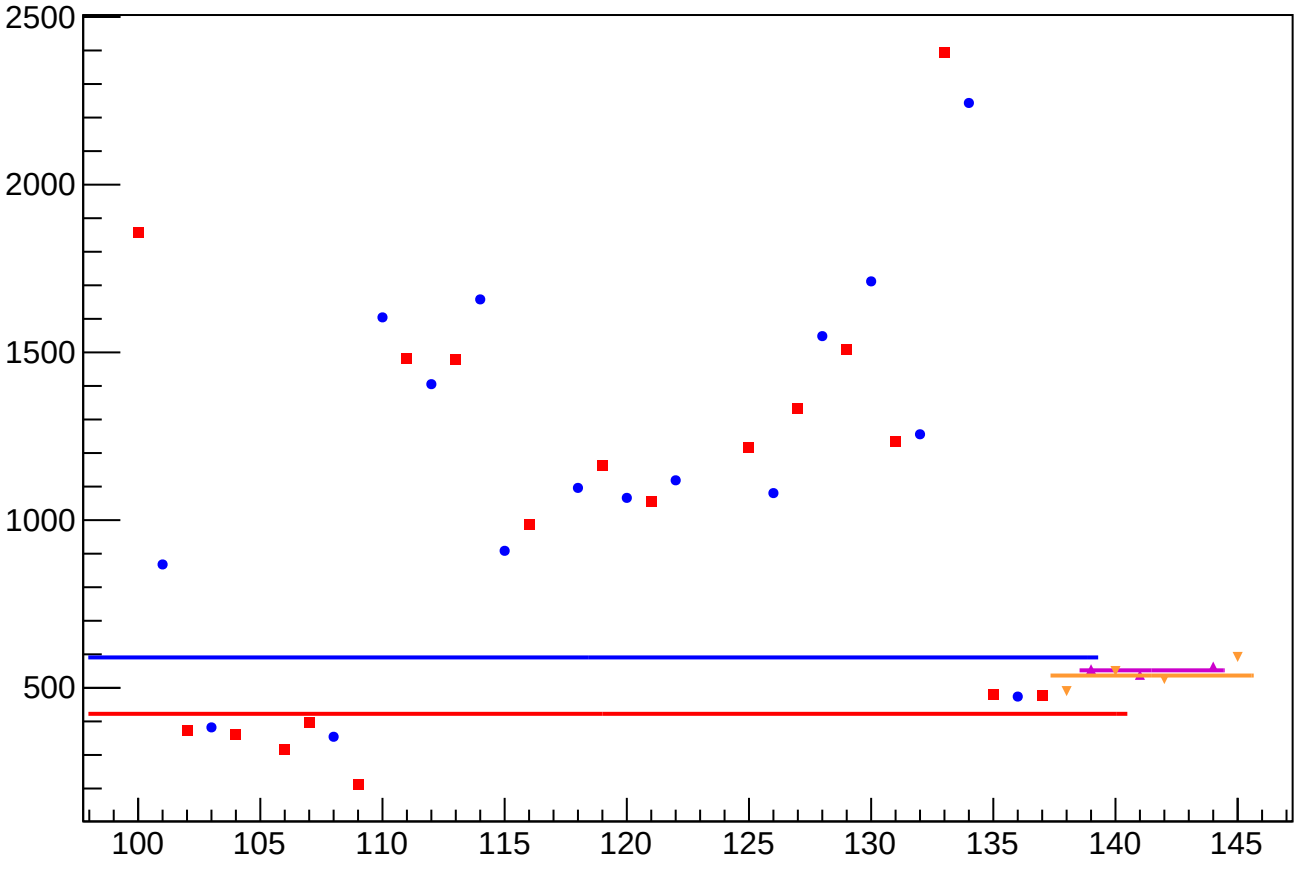
Right: 14.101+/-156.594 $\chi^2$/NDF: 36.2/33

In: 106.459+/-207.393 $\chi^2$/NDF:22.1/18

Out: -290.898+/-166.947 $\chi^2$/NDF:20.4/21

All: -134.657+/-130.047 $\chi^2$/NDF: 44.8/40

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: 536.774+/-0.226 $\chi^2$/NDF:29252.4/3

Right Out: 422.634+/-0.139 $\chi^2$/NDF: 4857932.7/17

Left In: 552.294+/-0.242 $\chi^2$/NDF:1850.8/2

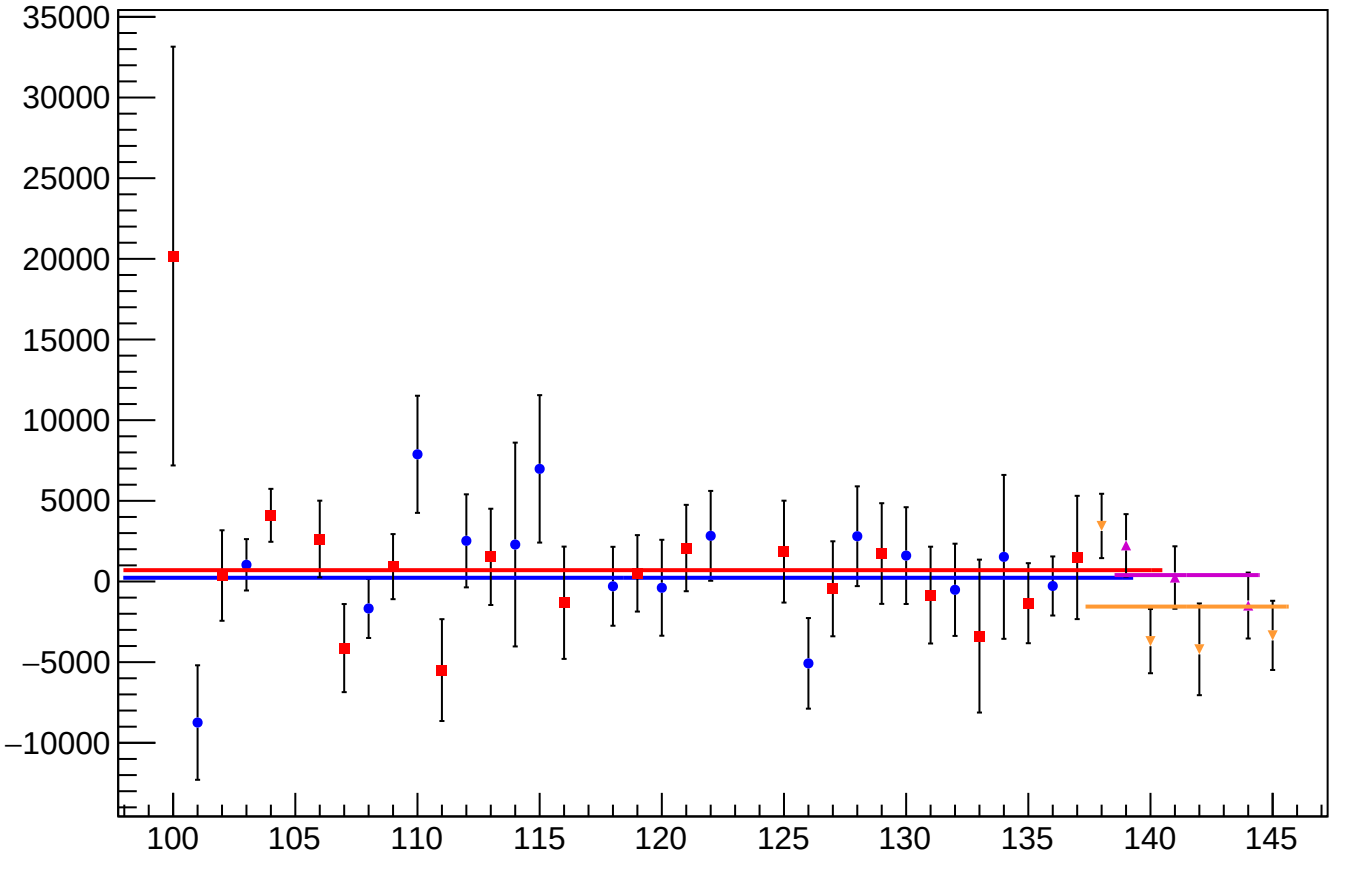
Left: 543.979+/-0.165 $\chi^2$/NDF: 33301.6/6

Right: 483.366+/-0.111 $\chi^2$/NDF: 9275354.4/33

In: 576.660+/-0.147 $\chi^2$/NDF:3903341.6/18

Out: 453.910+/-0.118 $\chi^2$/NDF:5073158.2/21

All: 502.175+/-0.092 $\chi^2$/NDF: 9401641.2/40




Right In: 230.761+/-666.241 $\chi^2$/NDF: 20.7/15

Left Out: -1555.317+/-1087.747 $\chi^2$/NDF:9.0/3

Right Out: 702.268+/-648.319 $\chi^2$/NDF: 17.0/17

Left In: 397.071+/-1137.031 $\chi^2$/NDF:1.8/2

Left: -622.352+/-785.999 $\chi^2$/NDF: 12.3/6

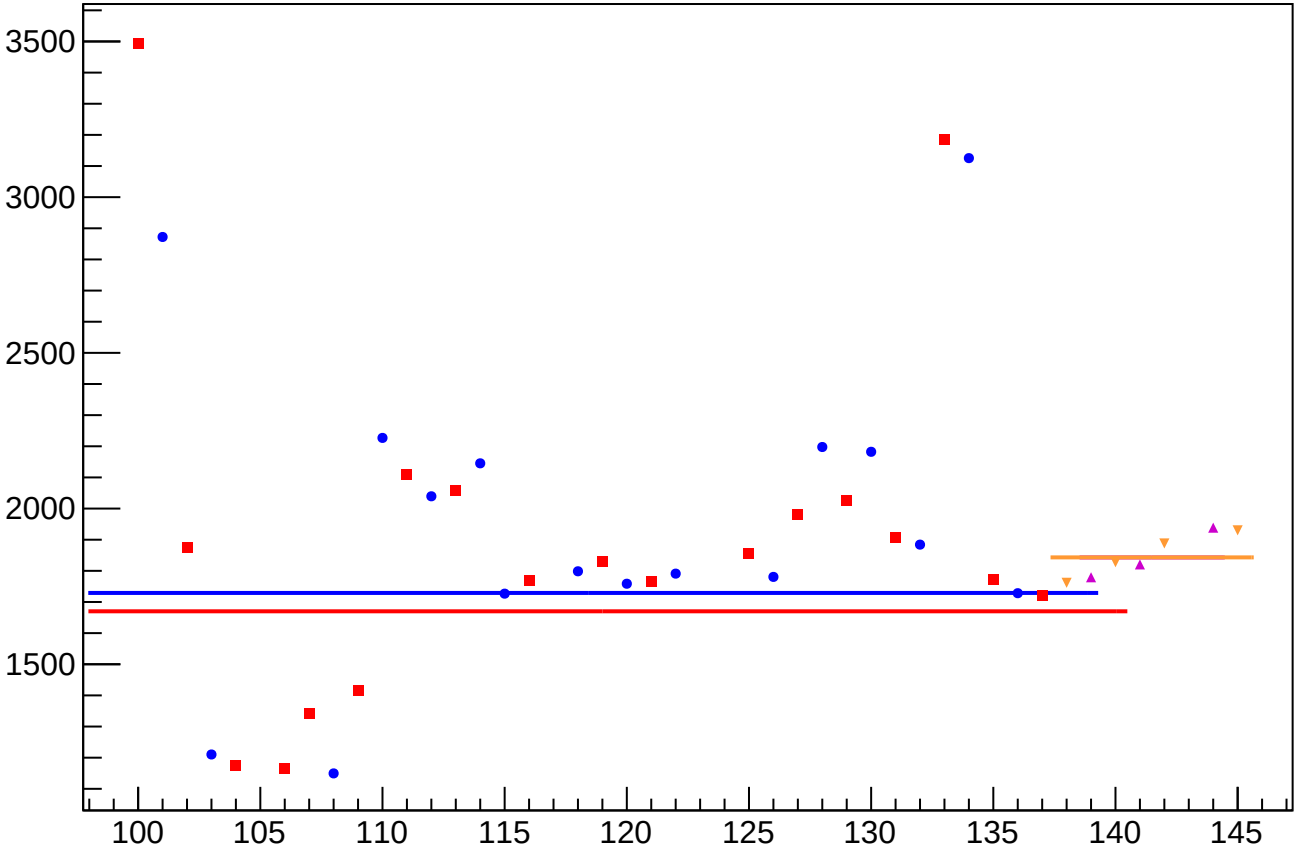
Right: 472.942+/-464.638 $\chi^2$/NDF: 38.0/33

In: 273.267+/-574.829 $\chi^2$/NDF:22.5/18

Out: 110.502+/-556.904 $\chi^2$/NDF:29.2/21

All: 189.307+/-399.978 $\chi^2$/NDF: 51.8/40

# 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: 1843.204+/-0.769 $\chi^2$/NDF:7247.0/3

Right Out: 1670.056+/-0.458 $\chi^2$/NDF: 744452.0/17

Left In: 1842.971+/-0.804 $\chi^2$/NDF:6810.3/2

Left: 1843.093+/-0.556 $\chi^2$/NDF: 14057.4/6

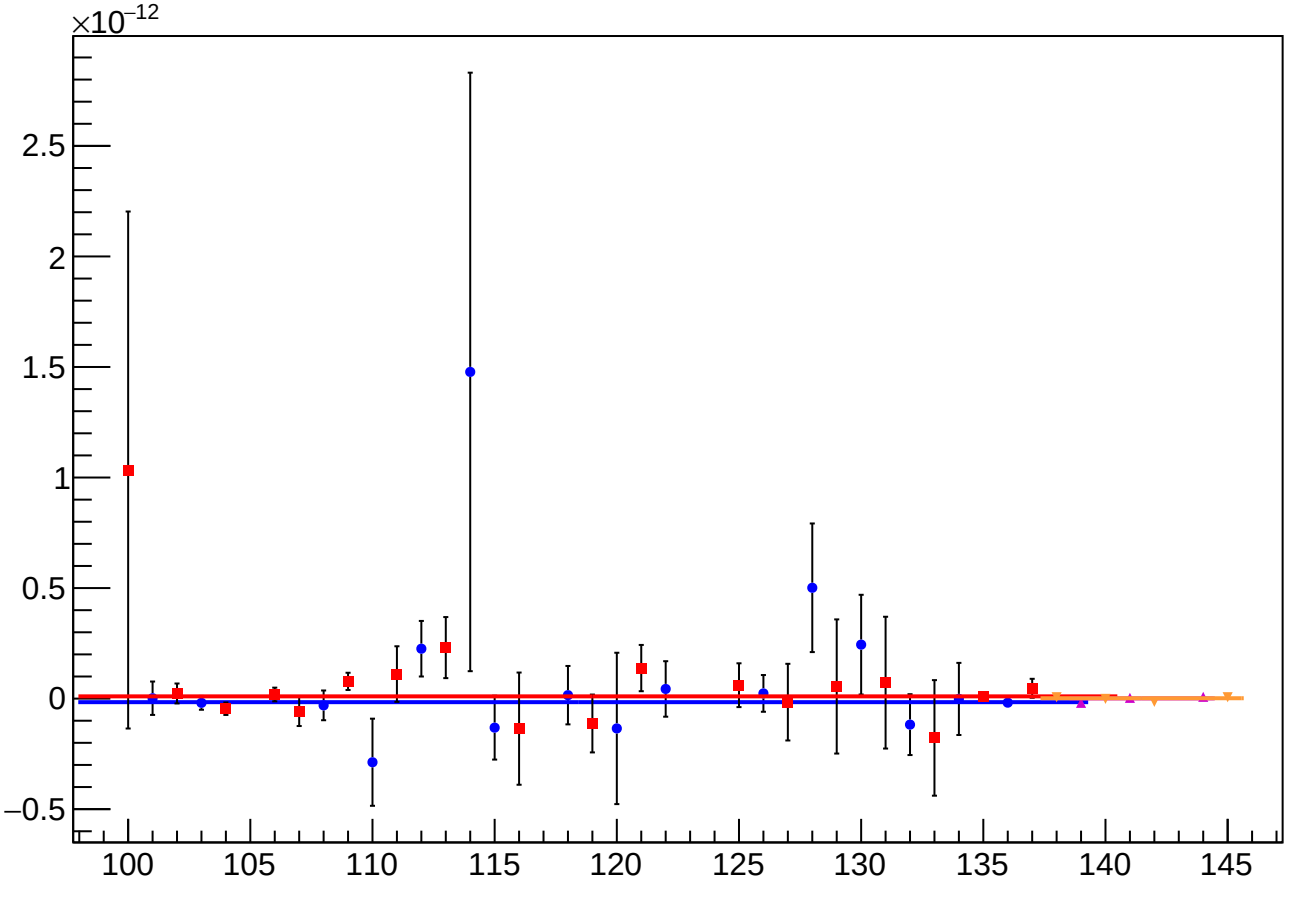
Right: 1698.749+/-0.329 $\chi^2$/NDF: 1694585.4/33

In: 1758.166+/-0.406 $\chi^2$/NDF:963835.1/18

Out: 1715.442+/-0.394 $\chi^2$/NDF:789092.1/21

All: 1736.128+/-0.283 $\chi^2$/NDF: 1758626.4/40

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:1.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.4/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.7/2

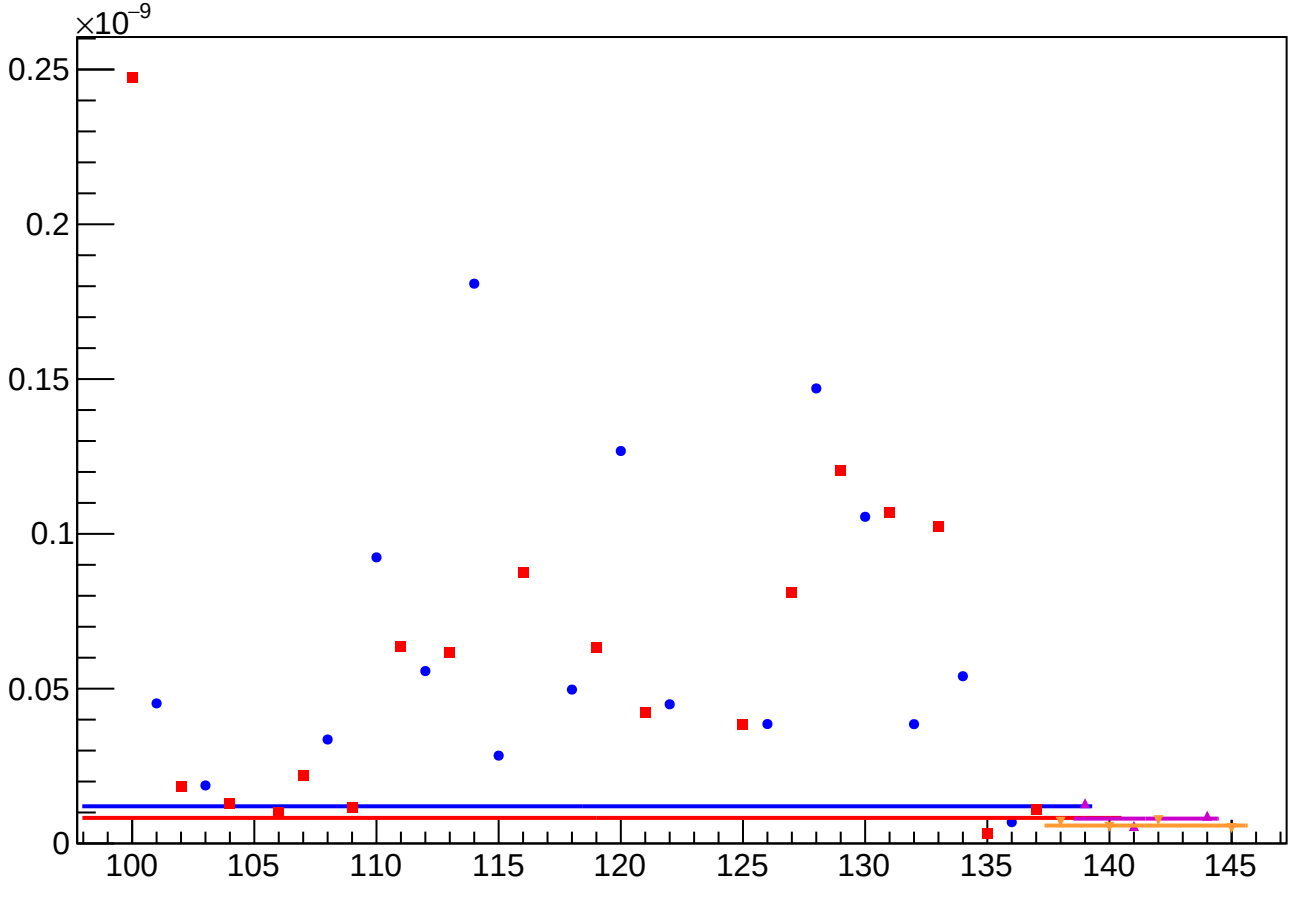
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.0/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 33.5/33

In: -0.000+/-0.000 $\chi^2$/NDF:16.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:18.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 36.7/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3425893.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:58051.3/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3510130.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:277871.0/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 452027.3/6

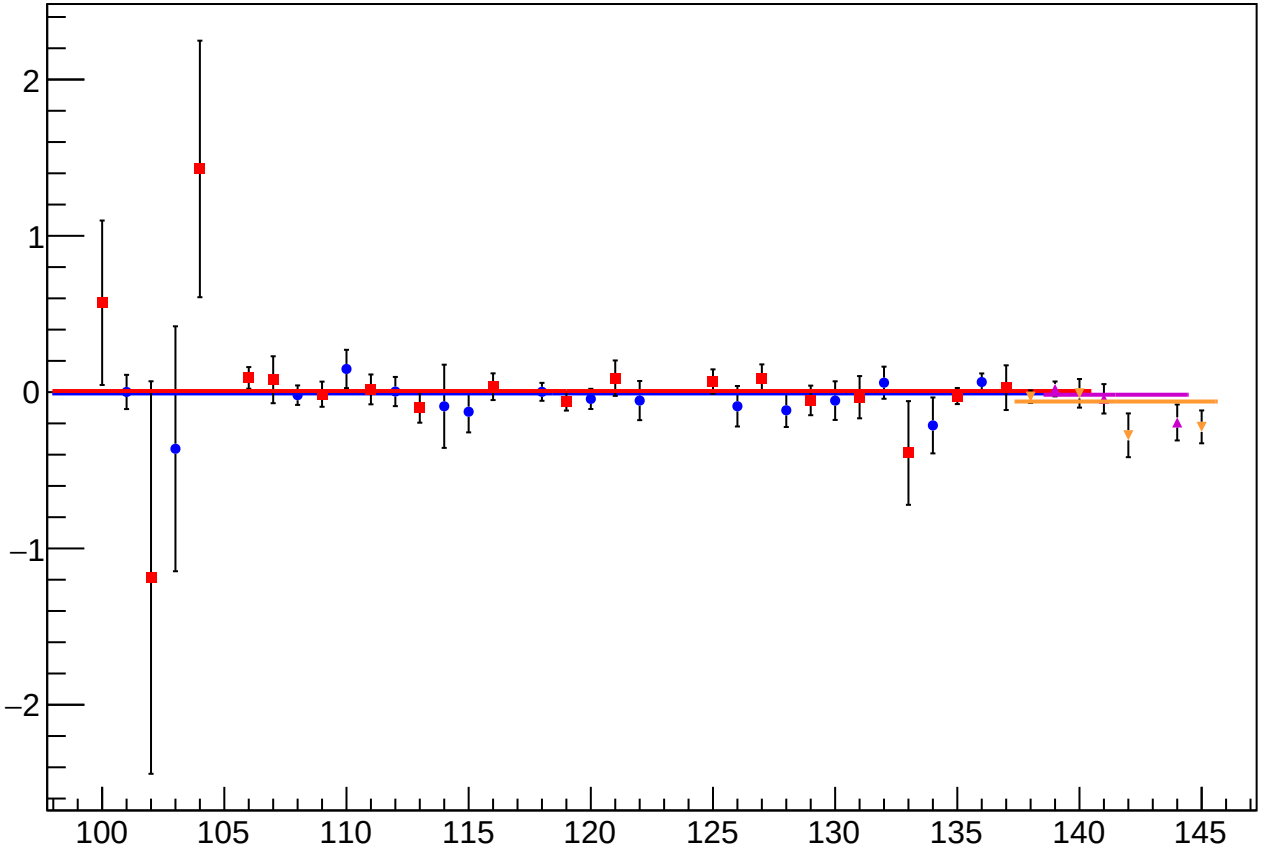
Right: 0.000+/-0.000 $\chi^2$/NDF: 7091803.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:3902198.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3682170.1/21

All: 0.000+/-0.000 $\chi^2$/NDF: 7867299.8/40

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: -0.060+/-0.034 $\chi^2$/NDF:5.7/3

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: -0.017+/-0.040 $\chi^2$/NDF:3.1/2

Left: -0.042+/-0.026 $\chi^2$/NDF: 9.5/6

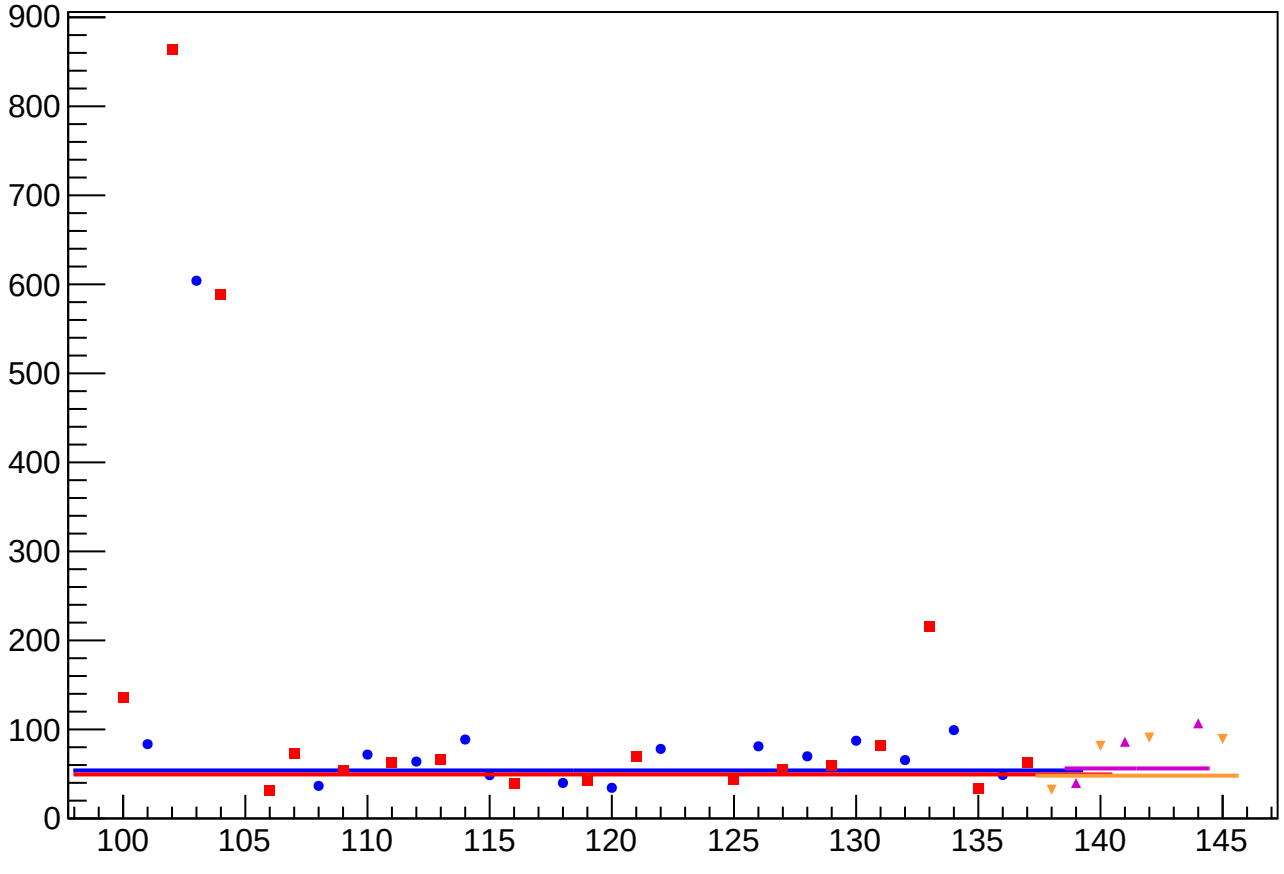
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.010+/-0.020 $\chi^2$/NDF:11.4/18

Out: -0.013+/-0.019 $\chi^2$/NDF:22.1/21

All: -0.012+/-0.014 $\chi^2$/NDF: 33.6/40

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: 48.055+/-0.024 $\chi^2$/NDF:1074582.4/3

Right Out: 49.420+/-0.016 $\chi^2$/NDF: 3017719.3/17

Left In: 56.191+/-0.028 $\chi^2$/NDF:828936.0/2

Left: 51.430+/-0.018 $\chi^2$/NDF: 1952287.4/6

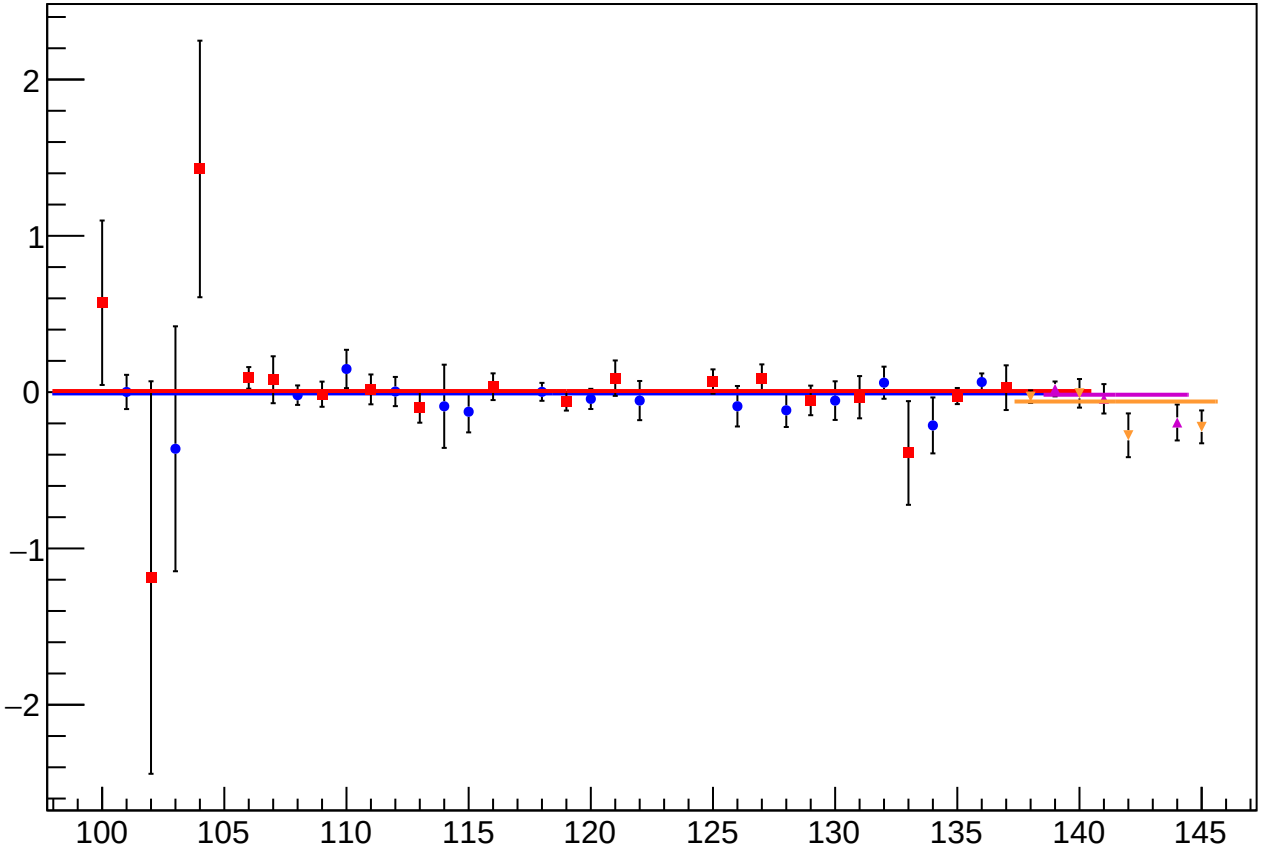
Right: 51.585+/-0.011 $\chi^2$/NDF: 5271581.7/33

In: 54.496+/-0.014 $\chi^2$/NDF:3048117.5/18

Out: 49.004+/-0.013 $\chi^2$/NDF:4094599.4/21

All: 51.542+/-0.010 $\chi^2$/NDF: 7223921.2/40

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: -0.060+/-0.034 $\chi^2$/NDF:5.7/3

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: -0.017+/-0.040 $\chi^2$/NDF:3.1/2

Left: -0.042+/-0.026 $\chi^2$/NDF: 9.5/6

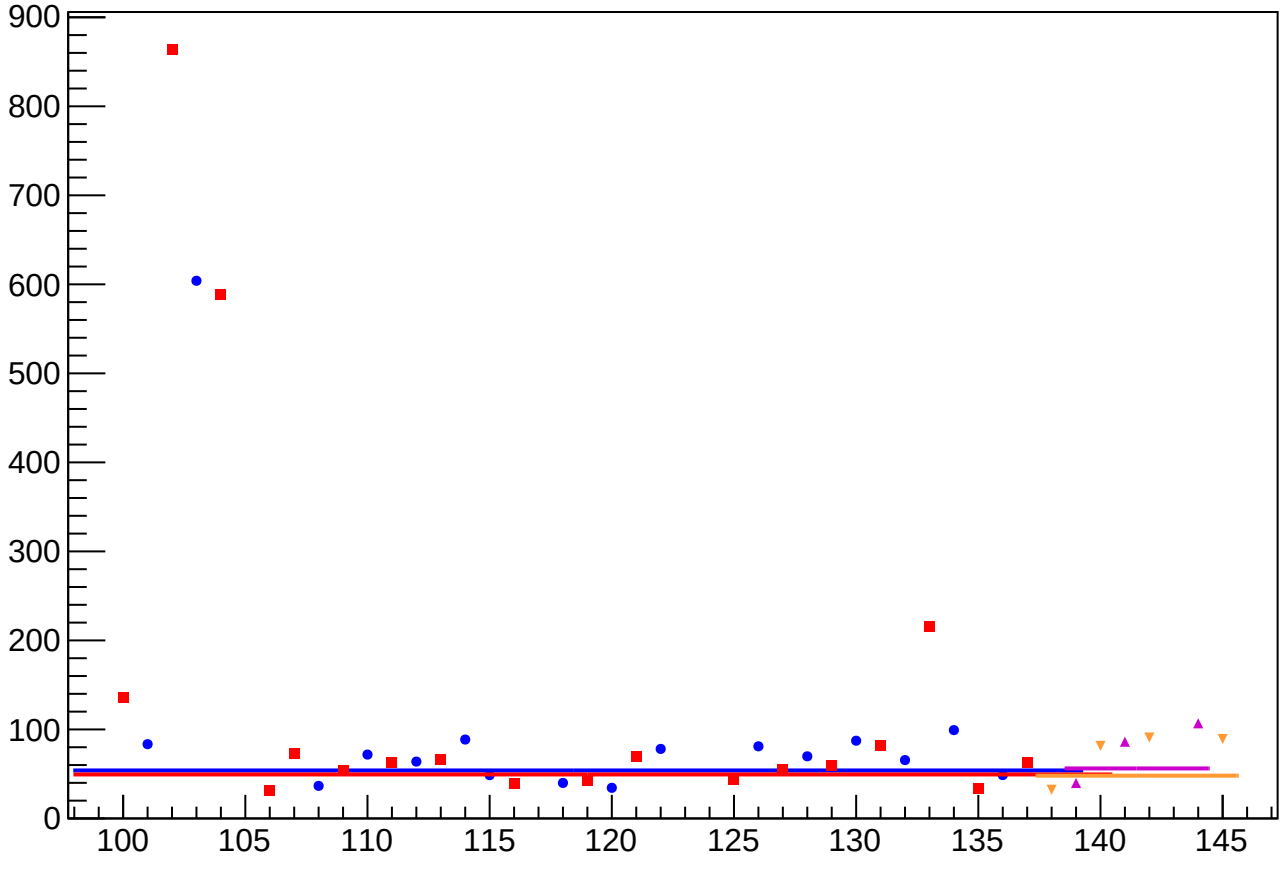
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.010+/-0.020 $\chi^2$/NDF:11.4/18

Out: -0.013+/-0.019 $\chi^2$/NDF:22.1/21

All: -0.012+/-0.014 $\chi^2$/NDF: 33.6/40

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: 48.055+/-0.024 $\chi^2$/NDF:1074582.4/3

Right Out: 49.420+/-0.016 $\chi^2$/NDF: 3017719.3/17

Left In: 56.191+/-0.028 $\chi^2$/NDF:828936.0/2

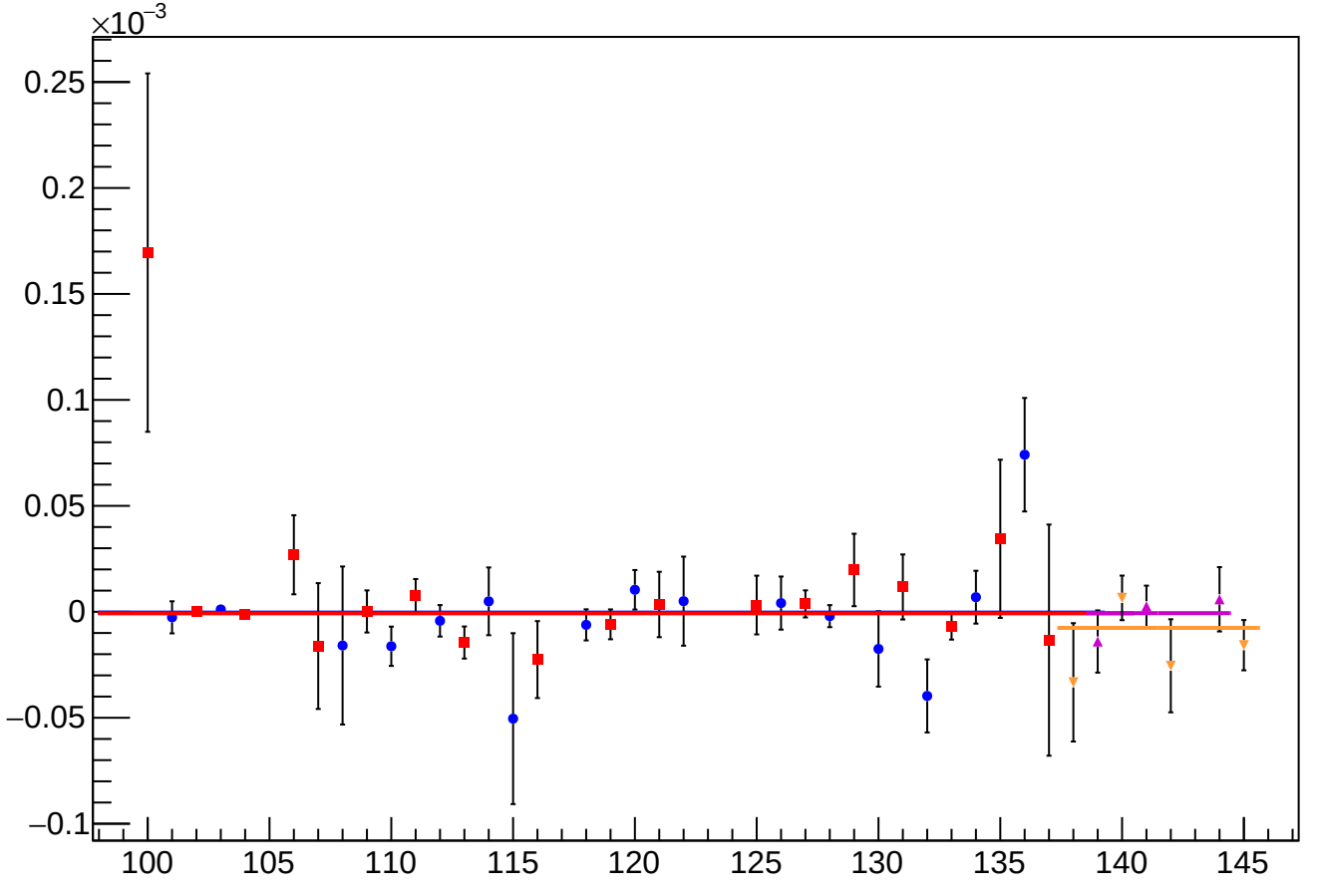
Left: 51.430+/-0.018 $\chi^2$/NDF: 1952287.4/6

Right: 51.585+/-0.011 $\chi^2$/NDF: 5271581.7/33

In: 54.496+/-0.014 $\chi^2$/NDF:3048117.5/18

Out: 49.004+/-0.013 $\chi^2$/NDF:4094599.4/21

All: 51.542+/-0.010 $\chi^2$/NDF: 7223921.2/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.8/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.8/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.1/2

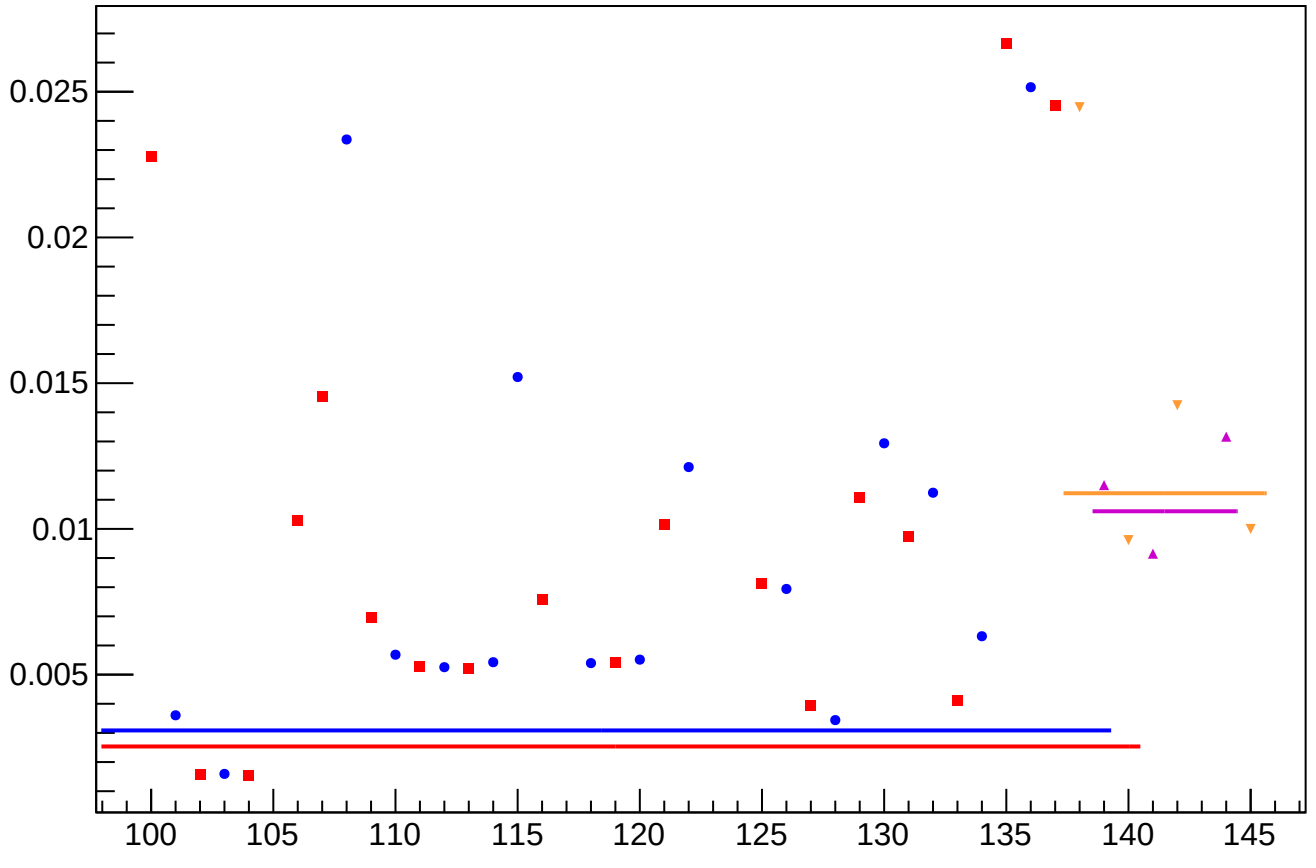
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.4/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.0/33

In: -0.000+/-0.000 $\chi^2$/NDF:23.2/18

Out: -0.000+/-0.000 $\chi^2$/NDF:22.5/21

All: -0.000+/-0.000 $\chi^2$/NDF: 45.8/40




Right In: 0.003+/-0.000 $\chi^2$/NDF: 5779108.6/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:555877.6/3

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6237059.6/17

Left In: 0.011+/-0.000 $\chi^2$/NDF:108855.0/2

Left: 0.011+/-0.000 $\chi^2$/NDF: 672199.6/6

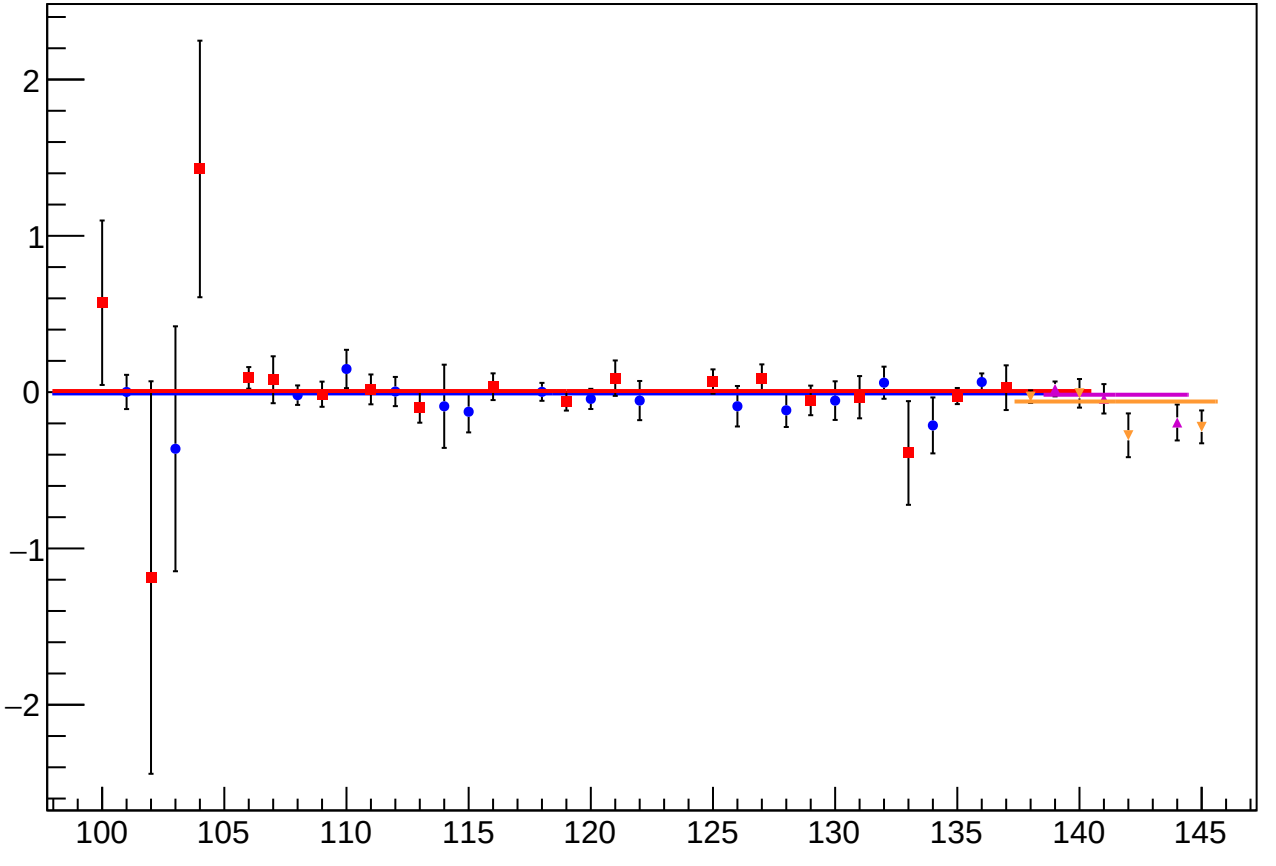
Right: 0.003+/-0.000 $\chi^2$/NDF: 12159145.0/33

In: 0.003+/-0.000 $\chi^2$/NDF:7983964.7/18

Out: 0.003+/-0.000 $\chi^2$/NDF:9648532.2/21

All: 0.003+/-0.000 $\chi^2$/NDF: 17841749.5/40

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: -0.060+/-0.034 $\chi^2$/NDF:5.7/3

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: -0.017+/-0.040 $\chi^2$/NDF:3.1/2

Left: -0.042+/-0.026 $\chi^2$/NDF: 9.5/6

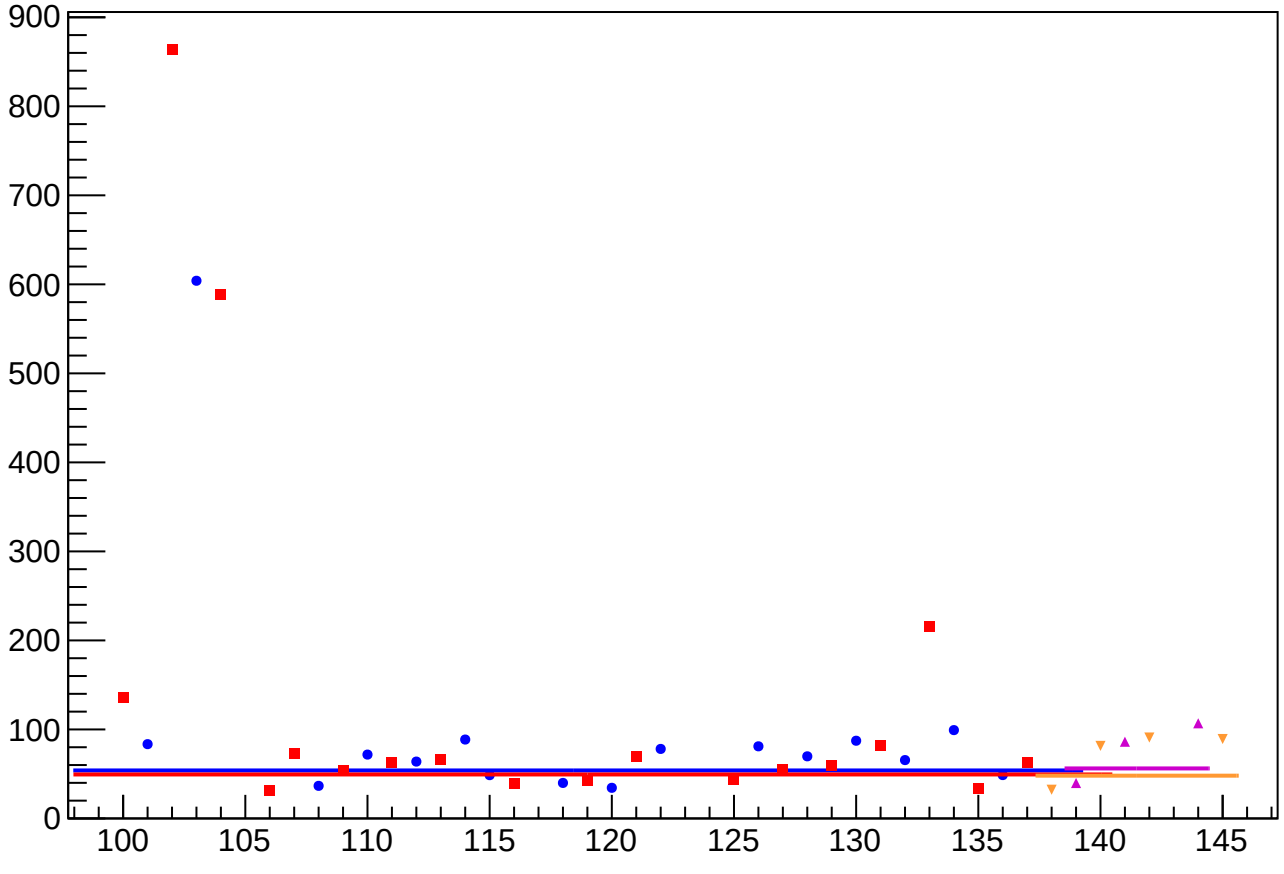
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.010+/-0.020 $\chi^2$/NDF:11.4/18

Out: -0.013+/-0.019 $\chi^2$/NDF:22.1/21

All: -0.012+/-0.014 $\chi^2$/NDF: 33.6/40

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: 48.065+/-0.024 $\chi^2$/NDF:1074101.1/3

Right Out: 49.422+/-0.016 $\chi^2$/NDF: 3017440.2/17

Left In: 56.194+/-0.028 $\chi^2$/NDF:828944.2/2

Left: 51.438+/-0.018 $\chi^2$/NDF: 1951734.0/6

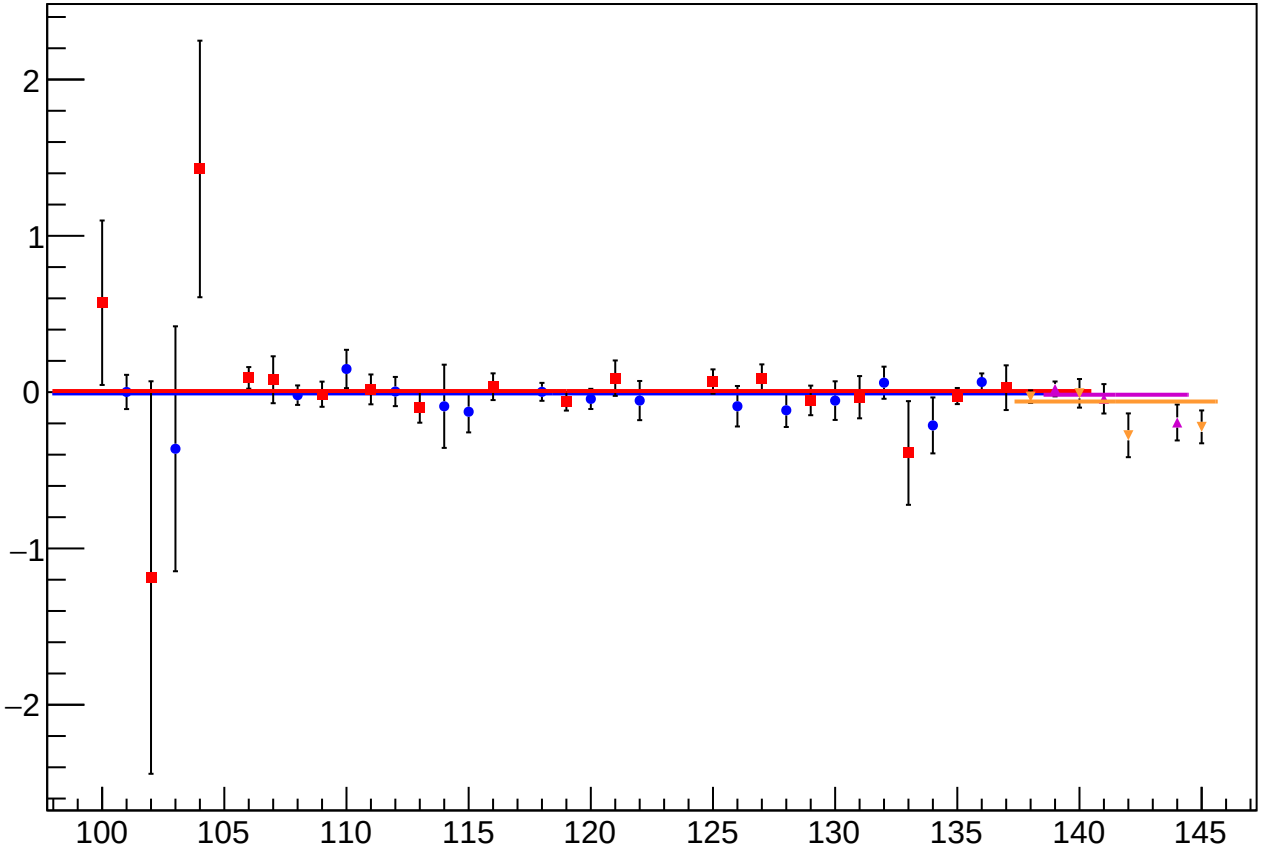
Right: 51.588+/-0.011 $\chi^2$/NDF: 5270924.4/33

In: 54.499+/-0.014 $\chi^2$/NDF:3047728.2/18

Out: 49.008+/-0.013 $\chi^2$/NDF:4093813.5/21

All: 51.546+/-0.010 $\chi^2$/NDF: 7222707.4/40

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: -0.060+/-0.034 $\chi^2$/NDF:5.7/3

Right Out: 0.007+/-0.022 $\chi^2$/NDF: 13.7/17

Left In: -0.017+/-0.040 $\chi^2$/NDF:3.1/2

Left: -0.042+/-0.026 $\chi^2$/NDF: 9.5/6

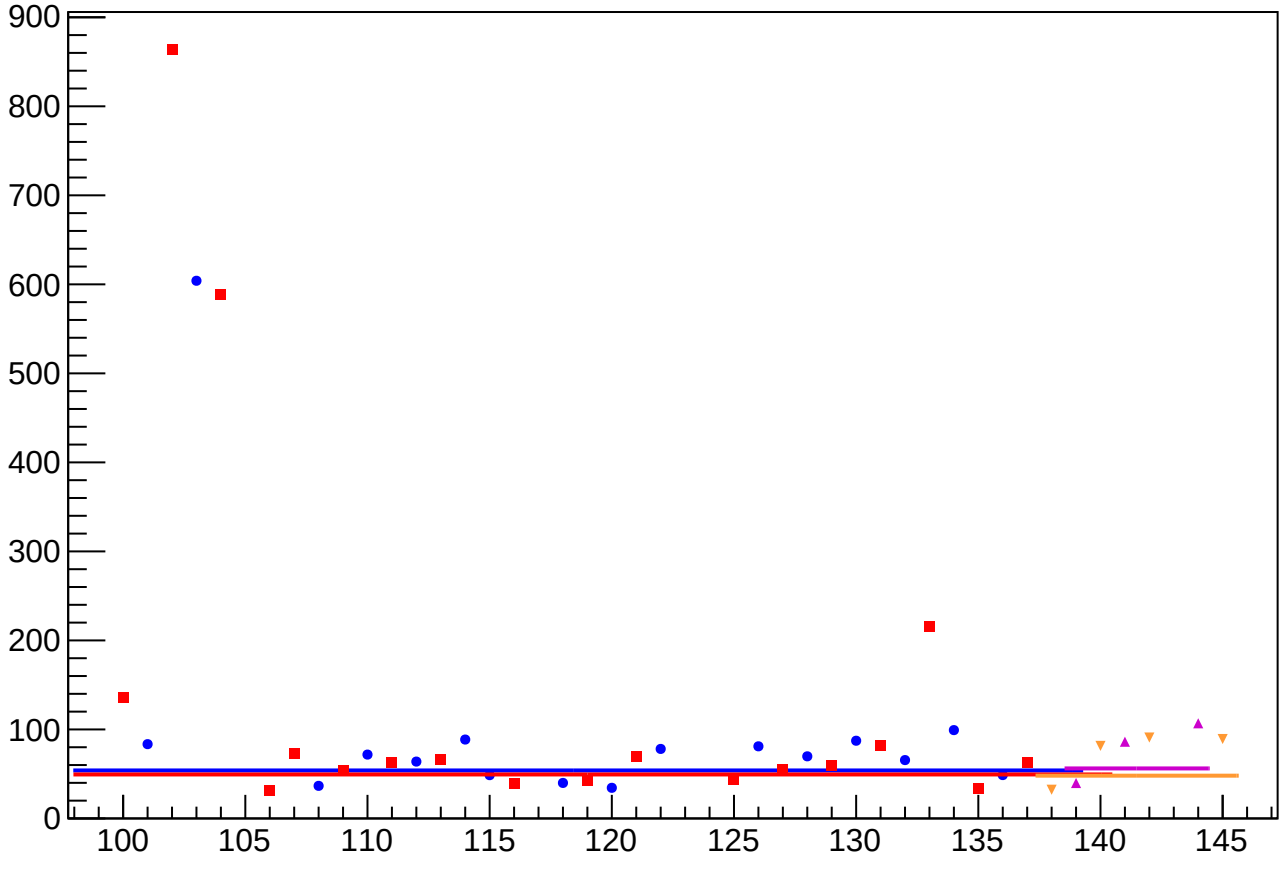
Right: -0.000+/-0.016 $\chi^2$/NDF: 22.2/33

In: -0.010+/-0.020 $\chi^2$/NDF:11.4/18

Out: -0.013+/-0.019 $\chi^2$/NDF:22.1/21

All: -0.012+/-0.014 $\chi^2$/NDF: 33.6/40

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: 48.065+/-0.024 $\chi^2$/NDF:1074101.1/3

Right Out: 49.422+/-0.016 $\chi^2$/NDF: 3017440.2/17

Left In: 56.194+/-0.028 $\chi^2$/NDF:828944.2/2

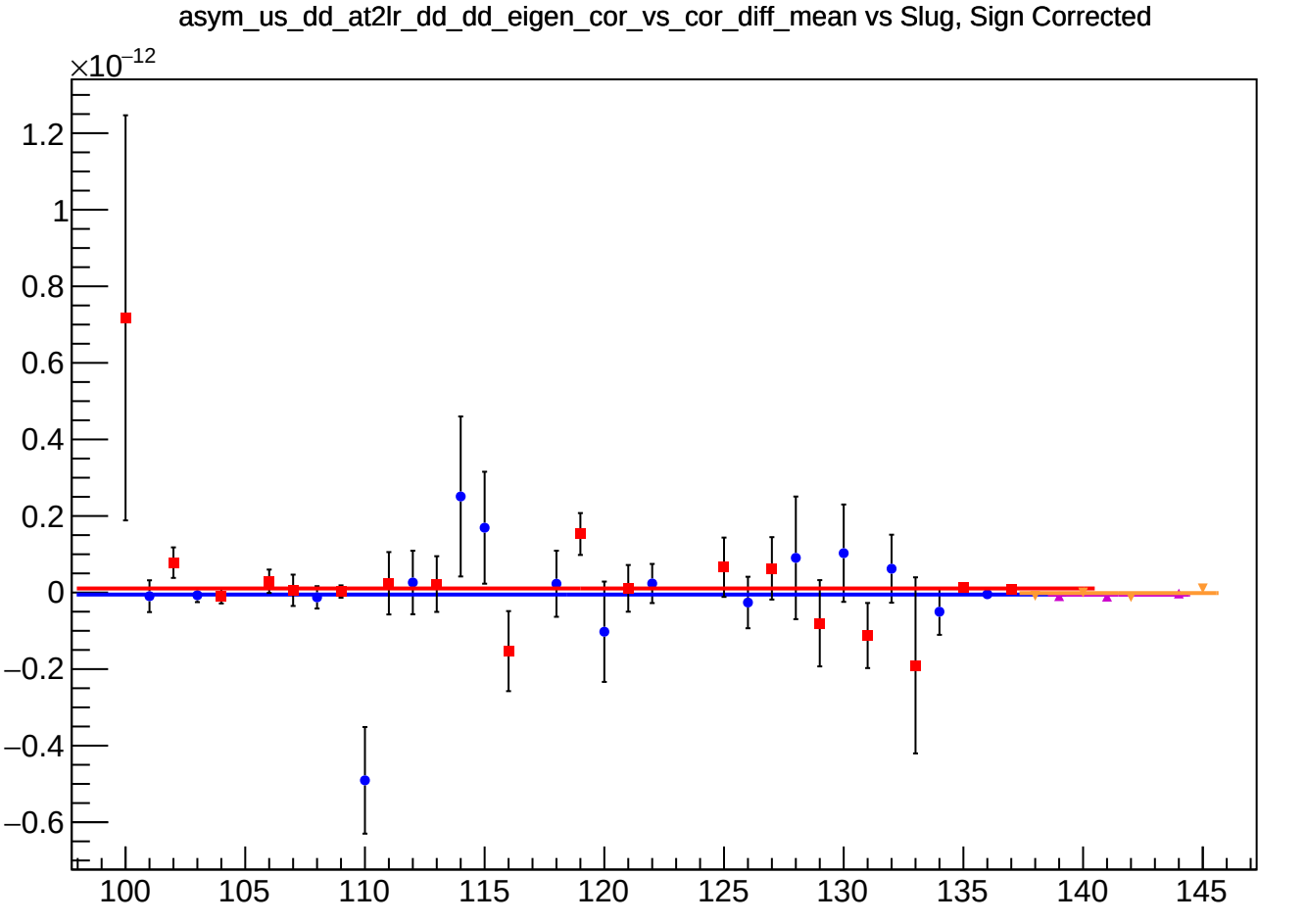
Left: 51.438+/-0.018 $\chi^2$/NDF: 1951734.0/6

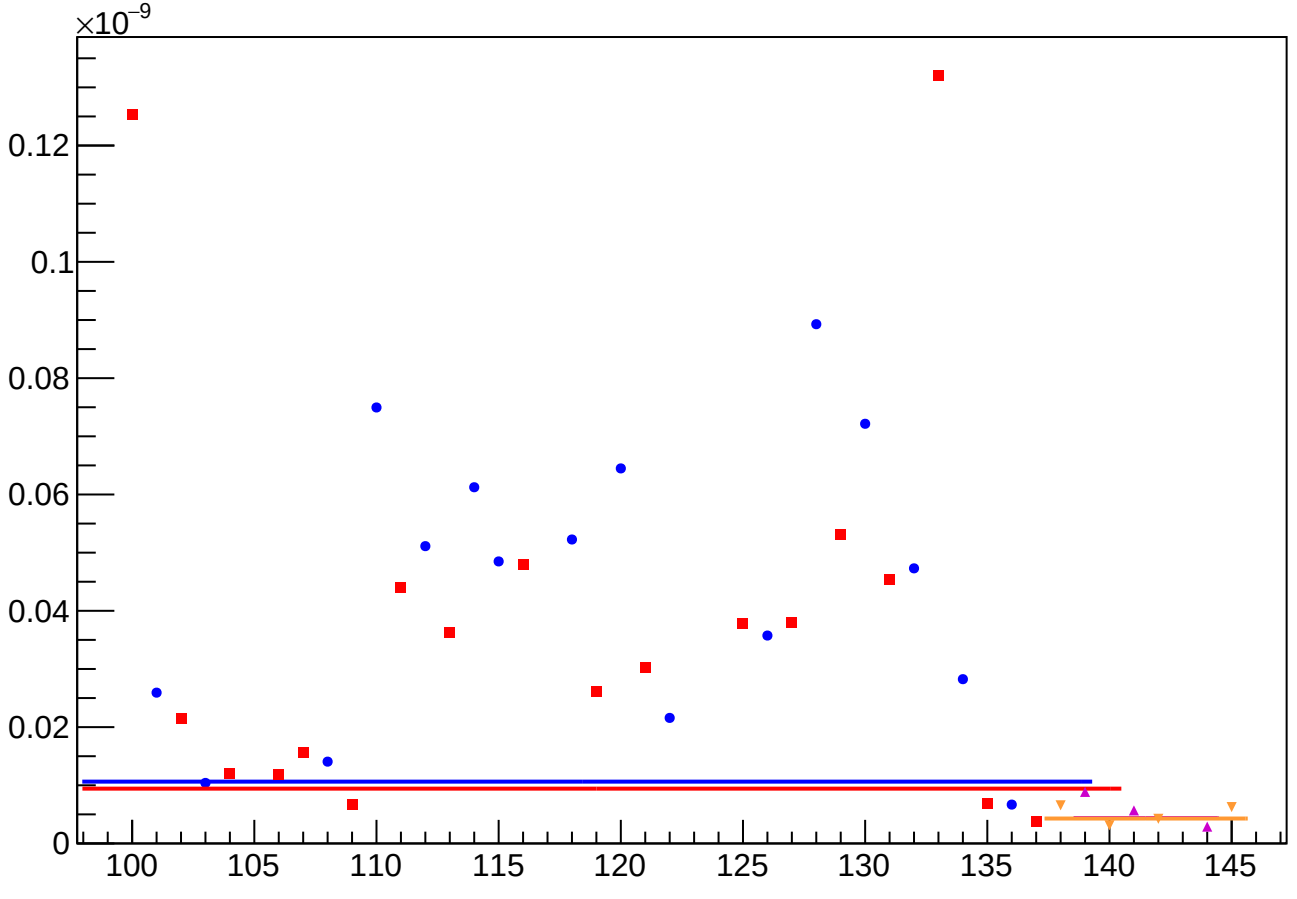
Right: 51.588+/-0.011 $\chi^2$/NDF: 5270924.4/33

In: 54.499+/-0.014 $\chi^2$/NDF:3047728.2/18

Out: 49.008+/-0.013 $\chi^2$/NDF:4093813.5/21

All: 51.546+/-0.010 $\chi^2$/NDF: 7222707.4/40


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
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 18.6/15
Left Out: -0.000+/-0.000 χ²/NDF:4.5/3
Right Out: 0.000+/-0.000 χ²/NDF: 20.1/17
Left In: -0.000+/-0.000 χ²/NDF:1.0/2
Left: -0.000+/-0.000 χ²/NDF: 6.2/6
Right: 0.000+/-0.000 χ²/NDF: 41.5/33
In: -0.000+/-0.000 χ²/NDF:19.6/18
Out: 0.000+/-0.000 χ²/NDF:27.4/21
All: -0.000+/-0.000 χ²/NDF: 49.2/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4557309.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:364597.2/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4029424.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:571494.7/2

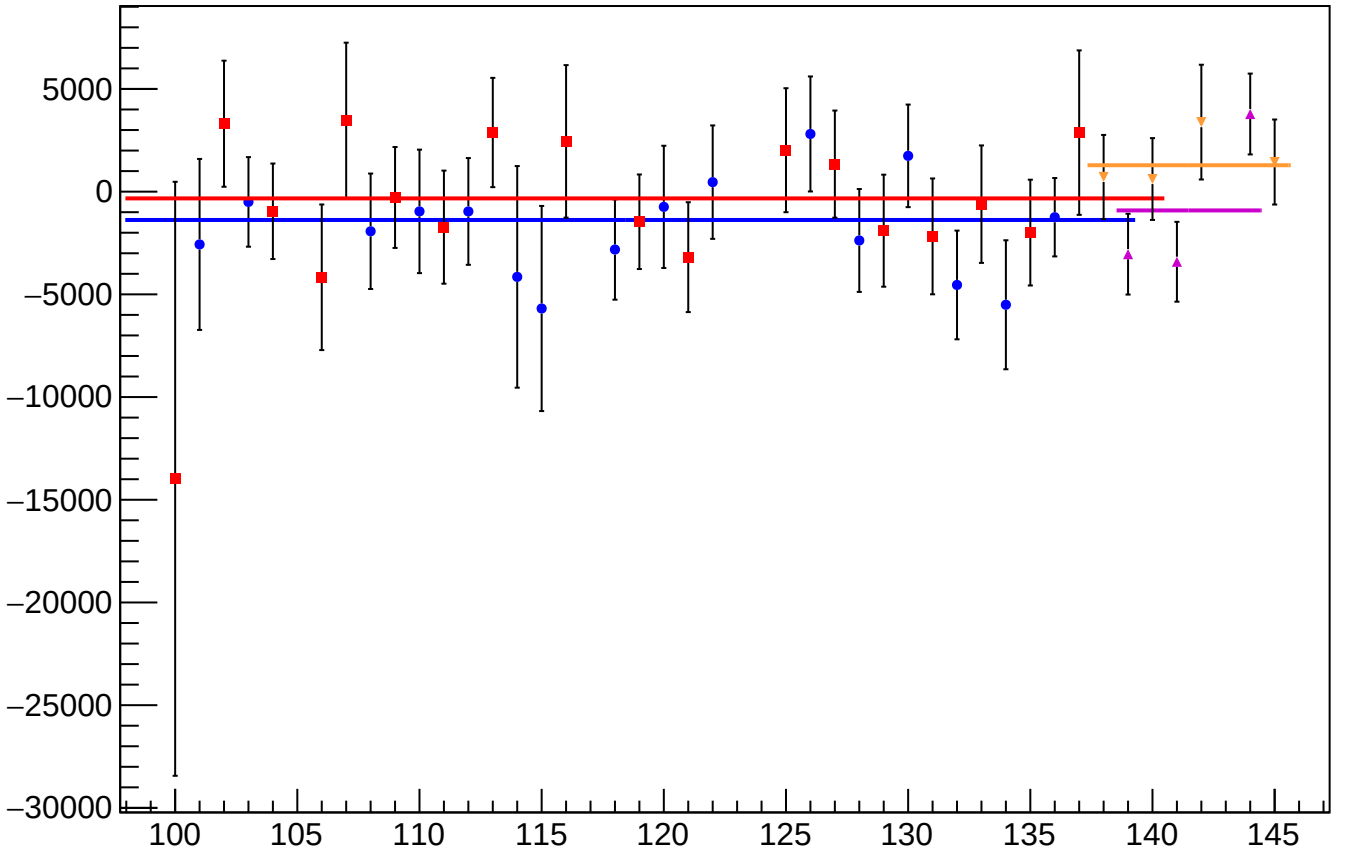
Left: 0.000+/-0.000 $\chi^2$/NDF: 936685.7/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 8619590.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:6408734.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5389921.3/21

All: 0.000+/-0.000 $\chi^2$/NDF: 11820339.4/40




Right In: -1378.758+/-689.030 $\chi^2$/NDF: 9.3/15

Left Out: 1285.588+/-1082.869 $\chi^2$/NDF:0.8/3

Right Out: -328.770+/-683.888 $\chi^2$/NDF: 11.0/17

Left In: -914.044+/-1131.212 $\chi^2$/NDF:8.5/2

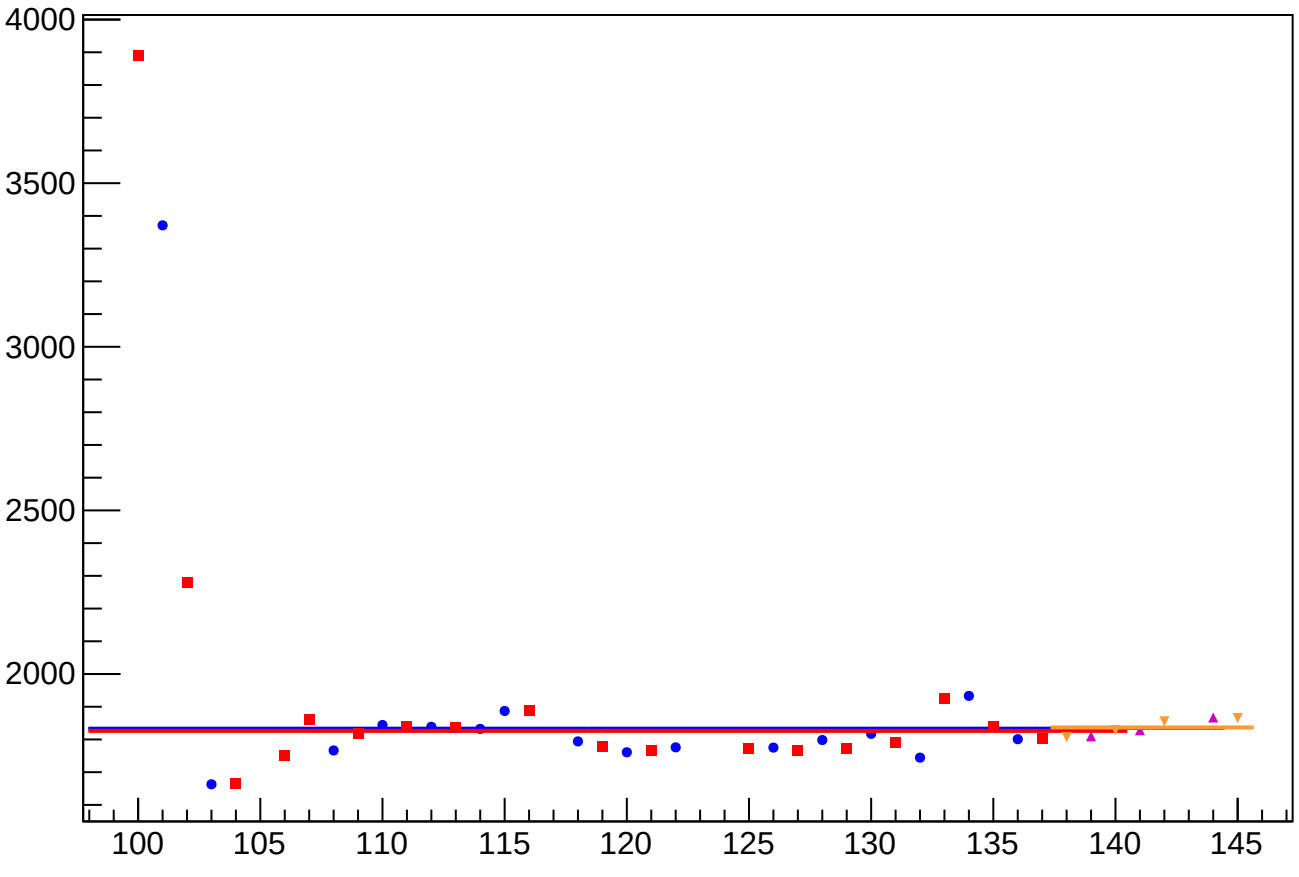
Left: 233.776+/-782.236 $\chi^2$/NDF: 11.2/6

Right: -849.832+/-485.390 $\chi^2$/NDF: 21.5/33

In: -1253.001+/-588.461 $\chi^2$/NDF:17.9/18

Out: 131.534+/-578.227 $\chi^2$/NDF:13.4/21

All: -548.590+/-412.439 $\chi^2$/NDF: 34.2/40




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295439.4/15

Left Out: 1836.694+/-0.766 $\chi^2$/NDF:925.7/3

Right Out: 1826.208+/-0.484 $\chi^2$/NDF: 103006.6/17

Left In: 1835.055+/-0.800 $\chi^2$/NDF:886.5/2

Left: 1835.910+/-0.553 $\chi^2$/NDF: 1814.4/6

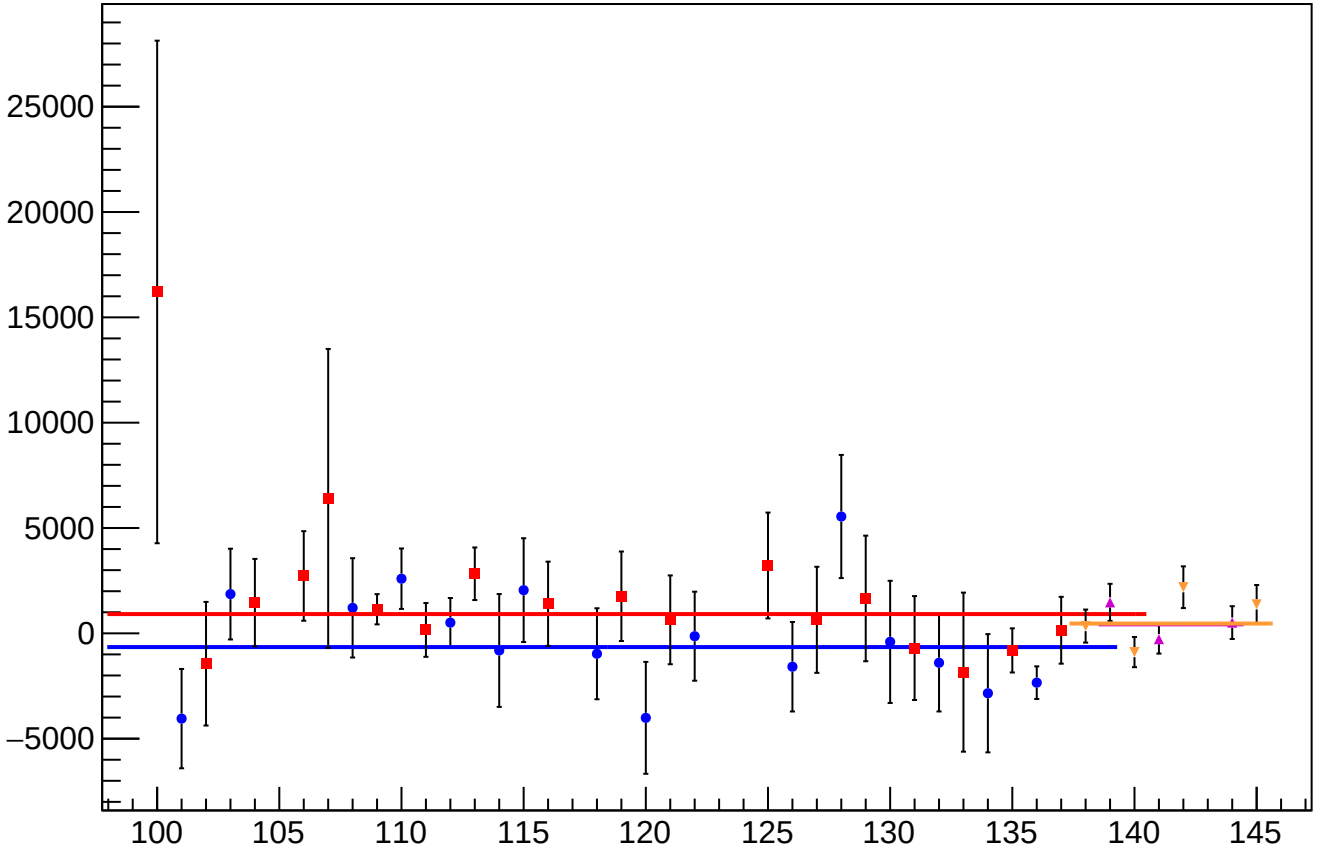
Right: 1829.552+/-0.343 $\chi^2$/NDF: 398542.3/33

In: 1833.517+/-0.416 $\chi^2$/NDF:296330.9/18

Out: 1829.198+/-0.409 $\chi^2$/NDF:104066.3/21

All: 1831.320+/-0.292 $\chi^2$/NDF: 400452.1/40

asym_us_dd_atlr_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -651.944+/-442.135 $\chi^2$/NDF: 23.2/15

Left Out: 464.689+/-415.718 $\chi^2$/NDF:7.6/3

Right Out: 914.717+/-393.421 $\chi^2$/NDF: 11.5/17

Left In: 426.227+/-444.281 $\chi^2$/NDF:2.5/2

Left: 446.734+/-303.553 $\chi^2$/NDF: 10.1/6

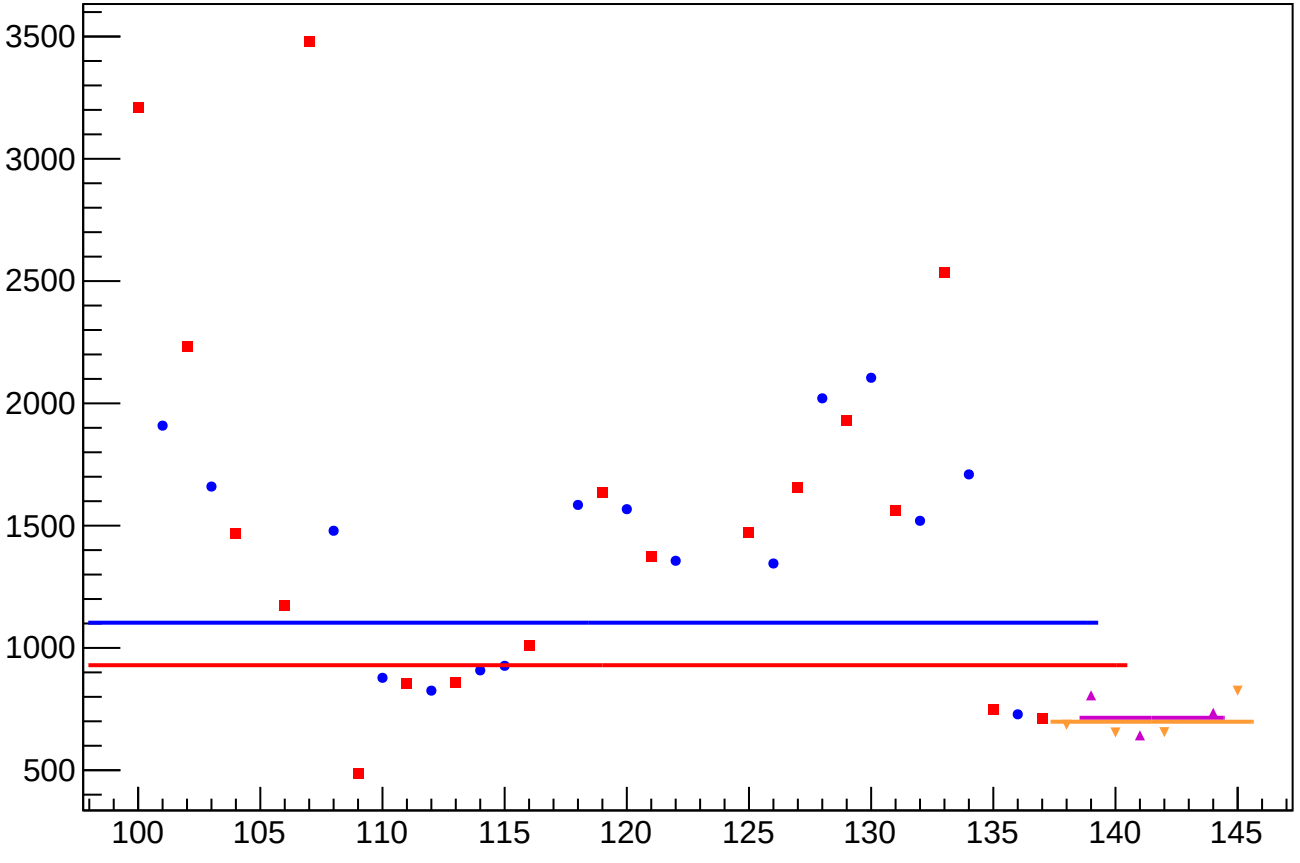
Right: 222.415+/-293.910 $\chi^2$/NDF: 41.8/33

In: -115.469+/-313.393 $\chi^2$/NDF:28.7/18

Out: 702.095+/-285.748 $\chi^2$/NDF:19.8/21

All: 330.955+/-211.153 $\chi^2$/NDF: 52.1/40

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: 698.317+/-0.294 $\chi^2$/NDF:50004.8/3

Right Out: 929.356+/-0.278 $\chi^2$/NDF: 3054092.4/17

Left In: 714.377+/-0.314 $\chi^2$/NDF:45089.0/2

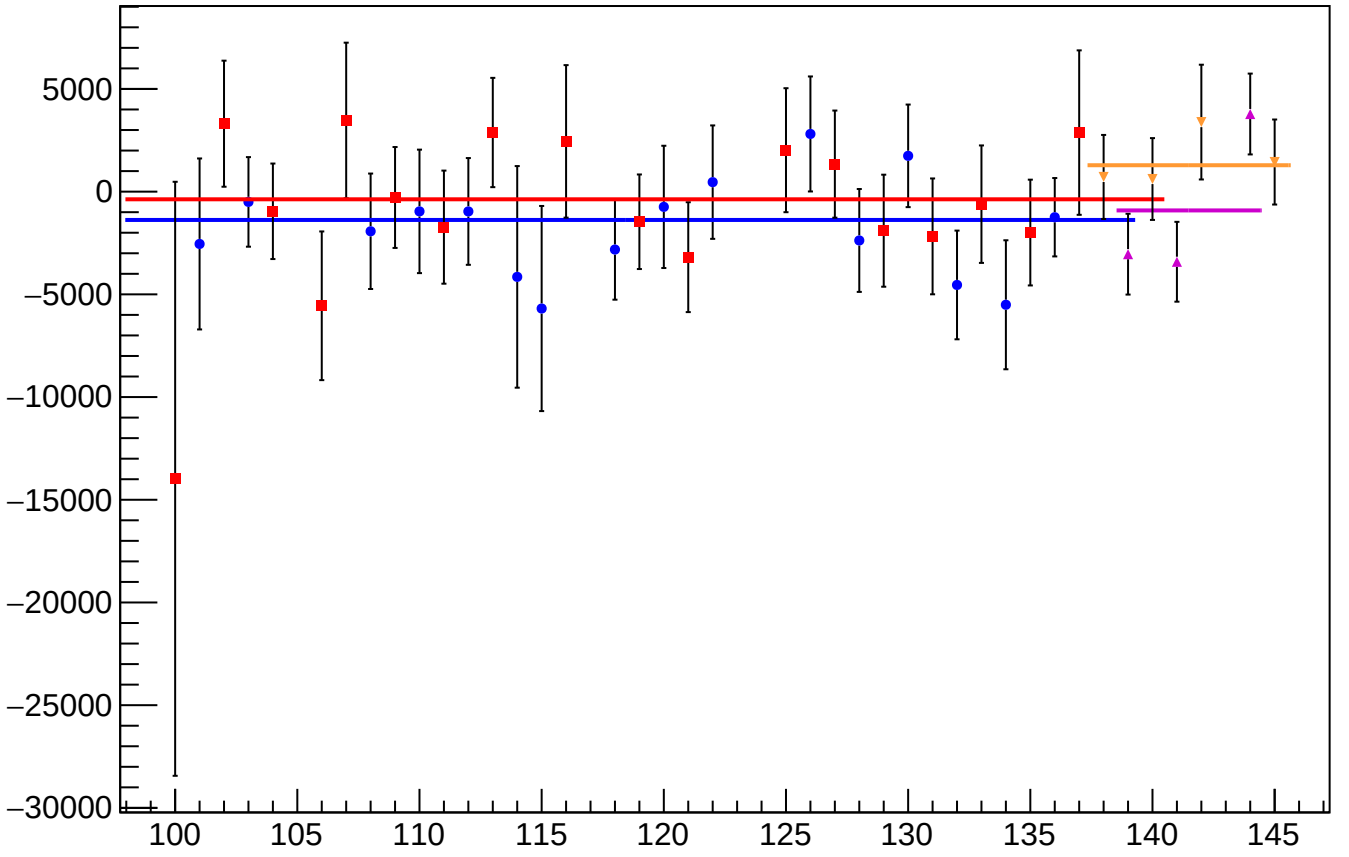
Left: 705.814+/-0.215 $\chi^2$/NDF: 96487.2/6

Right: 1006.170+/-0.208 $\chi^2$/NDF: 5104800.3/33

In: 909.722+/-0.222 $\chi^2$/NDF:2692836.7/18

Out: 820.199+/-0.202 $\chi^2$/NDF:3429976.0/21

All: 860.838+/-0.149 $\chi^2$/NDF: 6211927.1/40




Right In: -1378.133+/-689.030 $\chi^2$/NDF: 9.3/15

Left Out: 1285.722+/-1082.869 $\chi^2$/NDF:0.8/3

Right Out: -372.534+/-684.408 $\chi^2$/NDF: 12.0/17

Left In: -914.183+/-1131.212 $\chi^2$/NDF:8.5/2

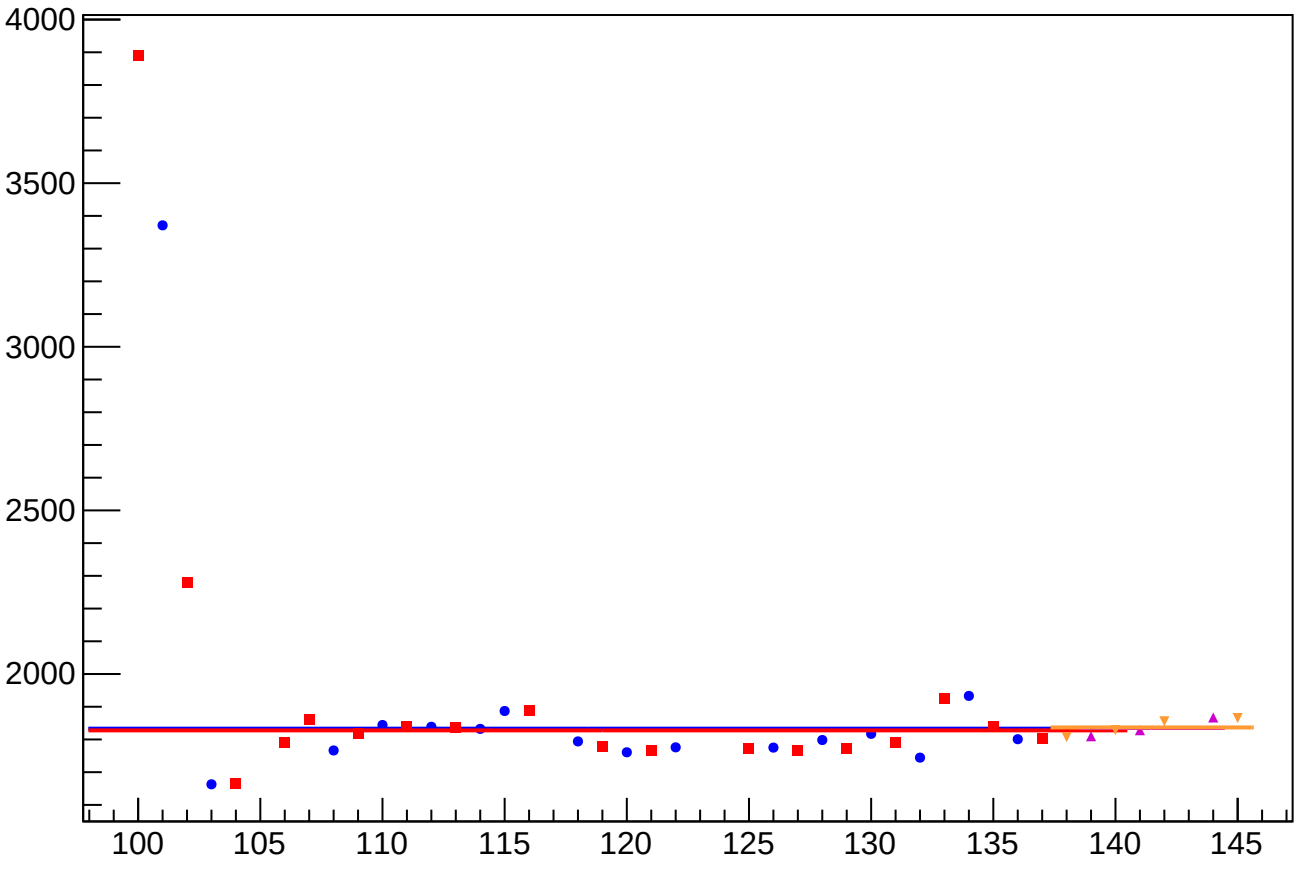
Left: 233.780+/-782.236 $\chi^2$/NDF: 11.3/6

Right: -871.950+/-485.576 $\chi^2$/NDF: 22.3/33

In: -1252.583+/-588.461 $\chi^2$/NDF:17.9/18

Out: 100.801+/-578.541 $\chi^2$/NDF:14.4/21

All: -564.388+/-412.553 $\chi^2$/NDF: 35.0/40




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295441.2/15

Left Out: 1836.694+/-0.766 $\chi^2$/NDF:925.7/3

Right Out: 1827.785+/-0.484 $\chi^2$/NDF: 102270.3/17

Left In: 1835.055+/-0.800 $\chi^2$/NDF:886.5/2

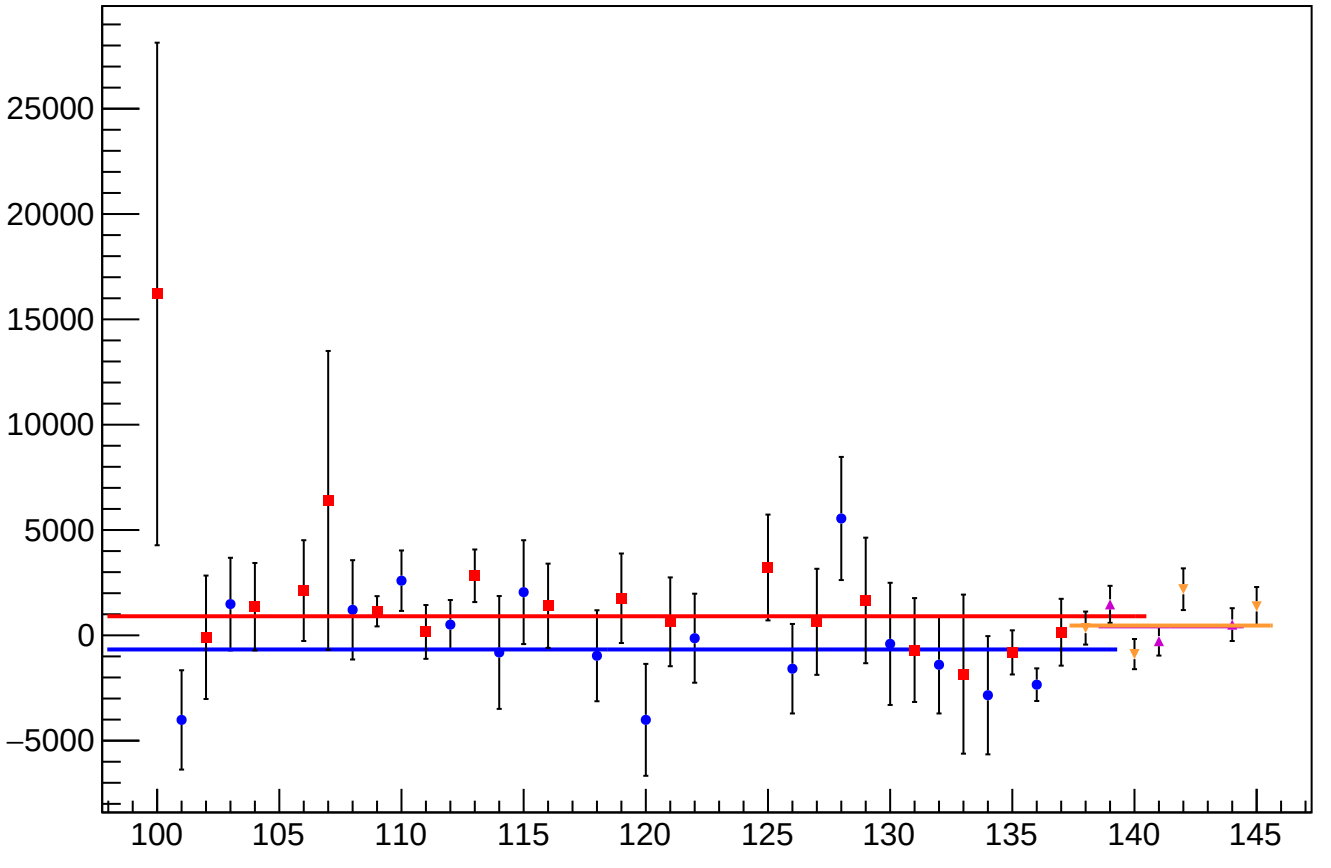
Left: 1835.910+/-0.553 $\chi^2$/NDF: 1814.4/6

Right: 1830.348+/-0.343 $\chi^2$/NDF: 397768.0/33

In: 1833.517+/-0.416 $\chi^2$/NDF:296332.8/18

Out: 1830.328+/-0.409 $\chi^2$/NDF:103292.7/21

All: 1831.895+/-0.292 $\chi^2$/NDF: 399655.4/40




Right In: -670.539+/-442.505 $\chi^2$/NDF: 22.8/15

Left Out: 464.594+/-415.724 $\chi^2$/NDF:7.6/3

Right Out: 905.874+/-394.814 $\chi^2$/NDF: 10.5/17

Left In: 426.193+/-444.277 $\chi^2$/NDF:2.5/2

Left: 446.667+/-303.554 $\chi^2$/NDF: 10.1/6

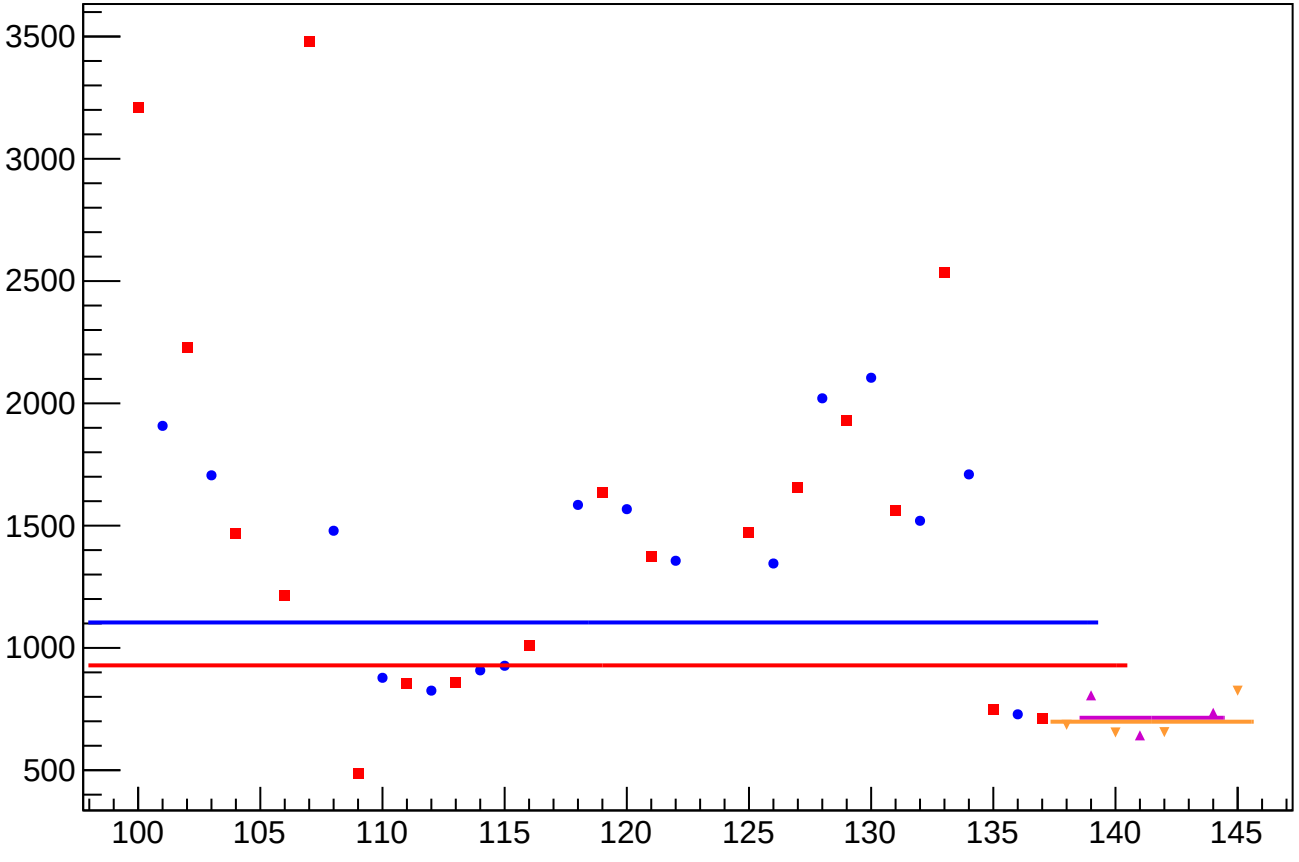
Right: 207.164+/-294.599 $\chi^2$/NDF: 40.3/33

In: -124.365+/-313.523 $\chi^2$/NDF:28.3/18

Out: 696.610+/-286.283 $\chi^2$/NDF:18.7/21

All: 323.331+/-211.408 $\chi^2$/NDF: 50.8/40

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: 698.327+/-0.294 $\chi^2$/NDF:50002.4/3

Right Out: 928.629+/-0.279 $\chi^2$/NDF: 3054381.5/17

Left In: 714.370+/-0.314 $\chi^2$/NDF:45104.6/2

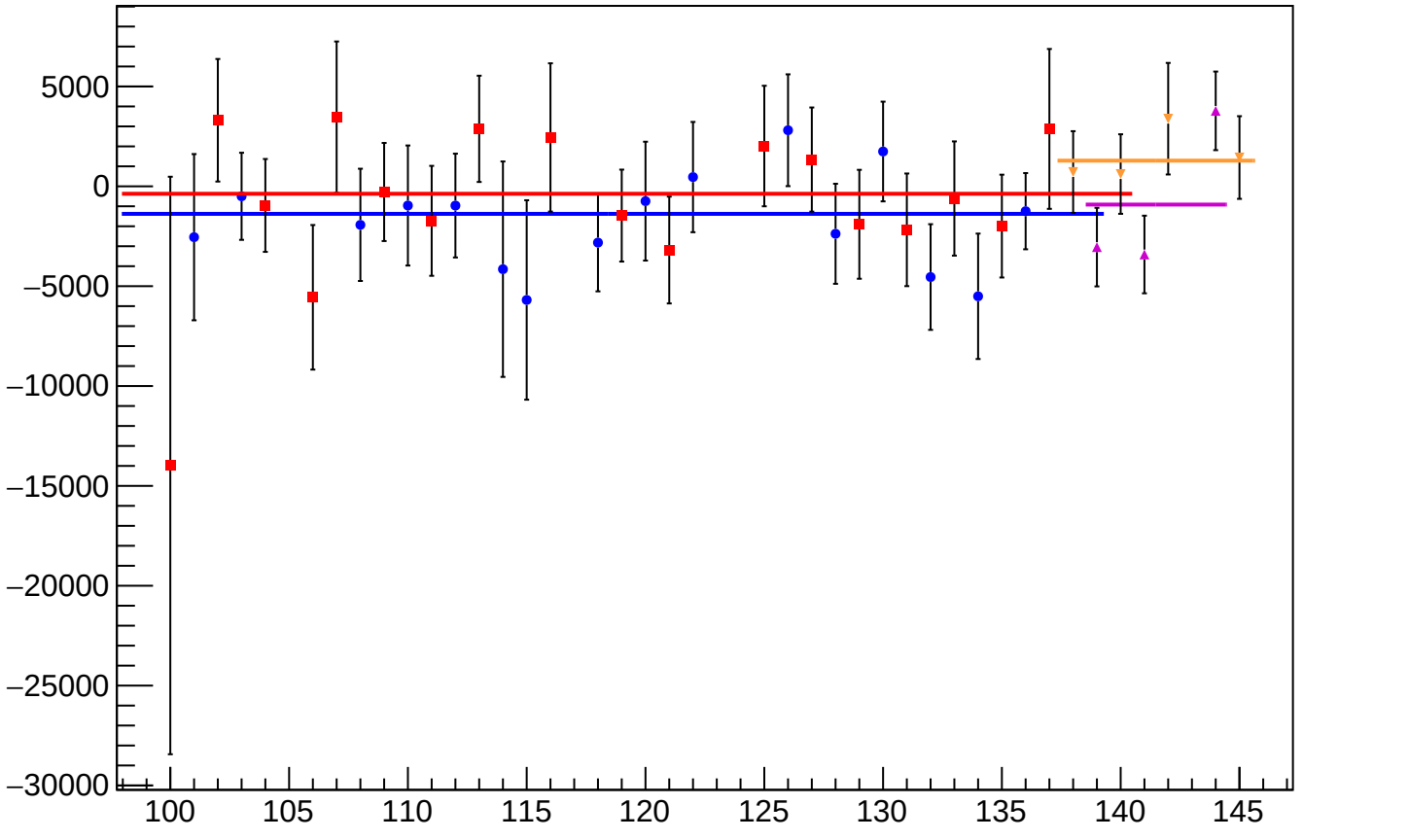
Left: 705.816+/-0.215 $\chi^2$/NDF: 96497.4/6

Right: 1006.404+/-0.208 $\chi^2$/NDF: 5123967.6/33

In: 910.015+/-0.222 $\chi^2$/NDF:2712192.8/18

Out: 819.415+/-0.202 $\chi^2$/NDF:3427098.3/21

All: 860.609+/-0.149 $\chi^2$/NDF: 6230366.1/40




Right In: -1378.133+/-689.030 $\chi^2$/NDF: 9.3/15

Left Out: 1285.722+/-1082.869 $\chi^2$/NDF:0.8/3

Right Out: -372.534+/-684.408 $\chi^2$/NDF: 12.0/17

Left In: -914.183+/-1131.212 $\chi^2$/NDF:8.5/2

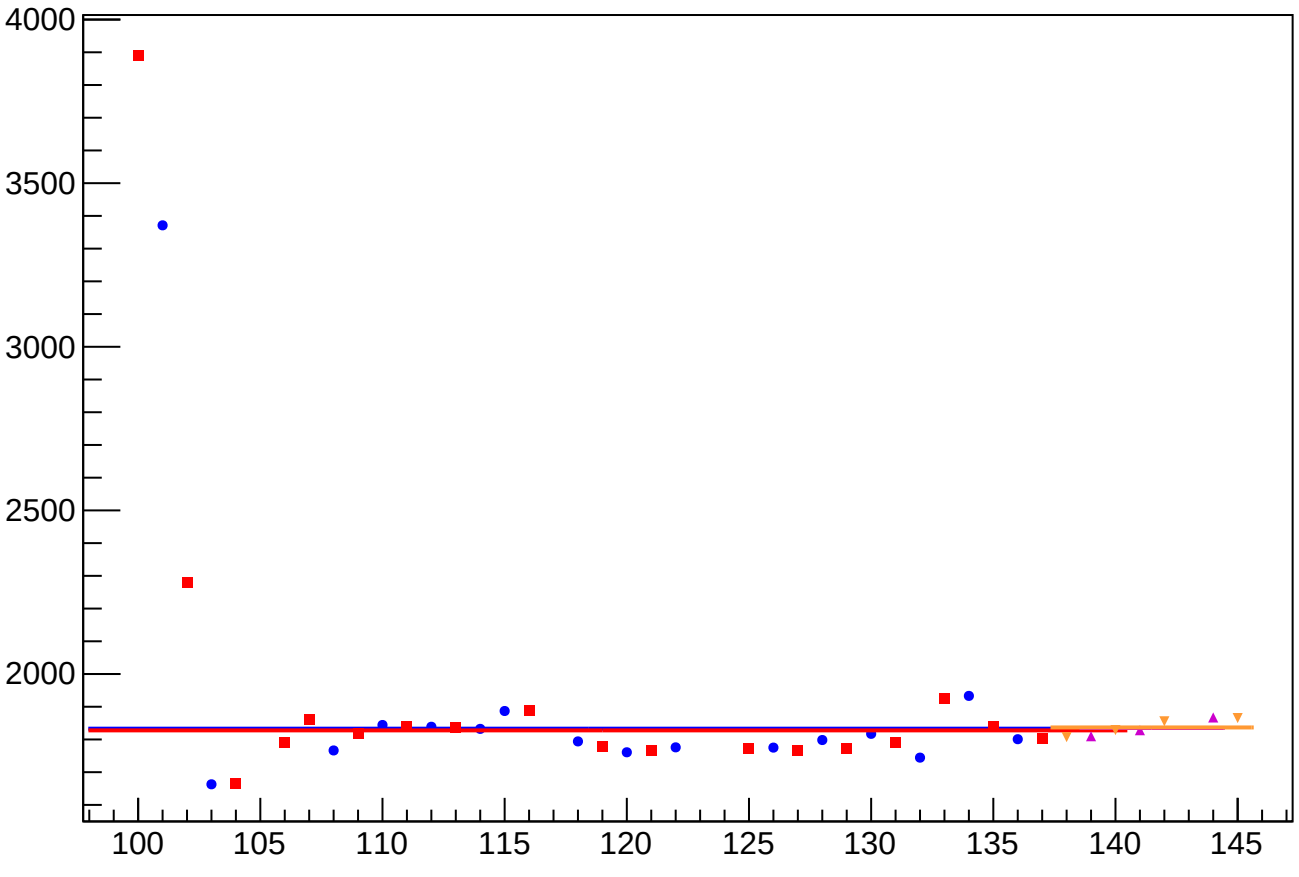
Left: 233.780+/-782.236 $\chi^2$/NDF: 11.3/6

Right: -871.950+/-485.576 $\chi^2$/NDF: 22.3/33

In: -1252.583+/-588.461 $\chi^2$/NDF:17.9/18

Out: 100.801+/-578.541 $\chi^2$/NDF:14.4/21

All: -564.388+/-412.553 $\chi^2$/NDF: 35.0/40




Right In: 1832.947+/-0.487 $\chi^2$/NDF: 295441.2/15

Left Out: 1836.694+/-0.766 $\chi^2$/NDF:925.7/3

Right Out: 1827.785+/-0.484 $\chi^2$/NDF: 102270.3/17

Left In: 1835.055+/-0.800 $\chi^2$/NDF:886.5/2

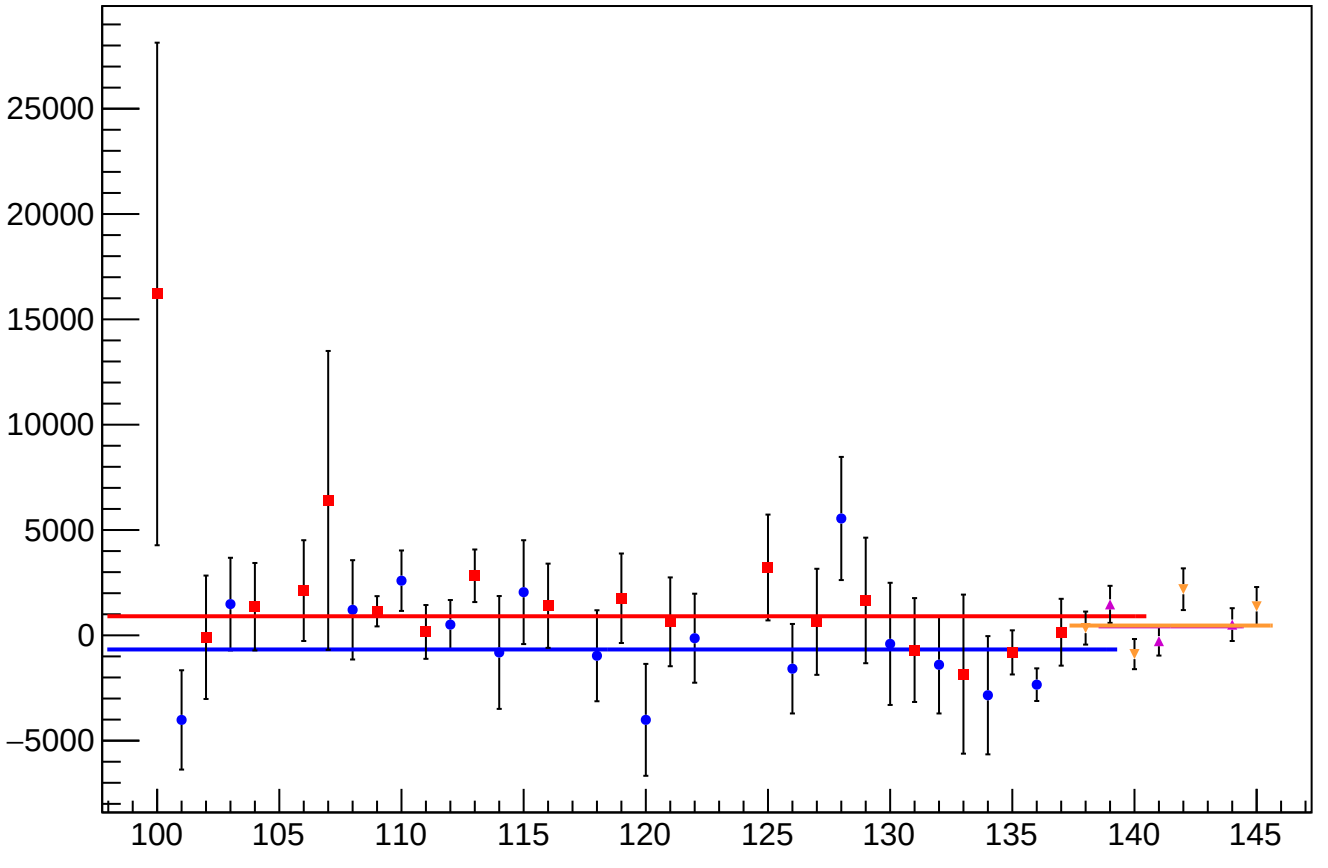
Left: 1835.910+/-0.553 $\chi^2$/NDF: 1814.4/6

Right: 1830.348+/-0.343 $\chi^2$/NDF: 397768.0/33

In: 1833.517+/-0.416 $\chi^2$/NDF:296332.8/18

Out: 1830.328+/-0.409 $\chi^2$/NDF:103292.7/21

All: 1831.895+/-0.292 $\chi^2$/NDF: 399655.4/40




Right In: -670.539+/-442.505 $\chi^2$/NDF: 22.8/15

Left Out: 464.594+/-415.724 $\chi^2$/NDF:7.6/3

Right Out: 905.874+/-394.814 $\chi^2$/NDF: 10.5/17

Left In: 426.193+/-444.277 $\chi^2$/NDF:2.5/2

Left: 446.667+/-303.554 $\chi^2$/NDF: 10.1/6

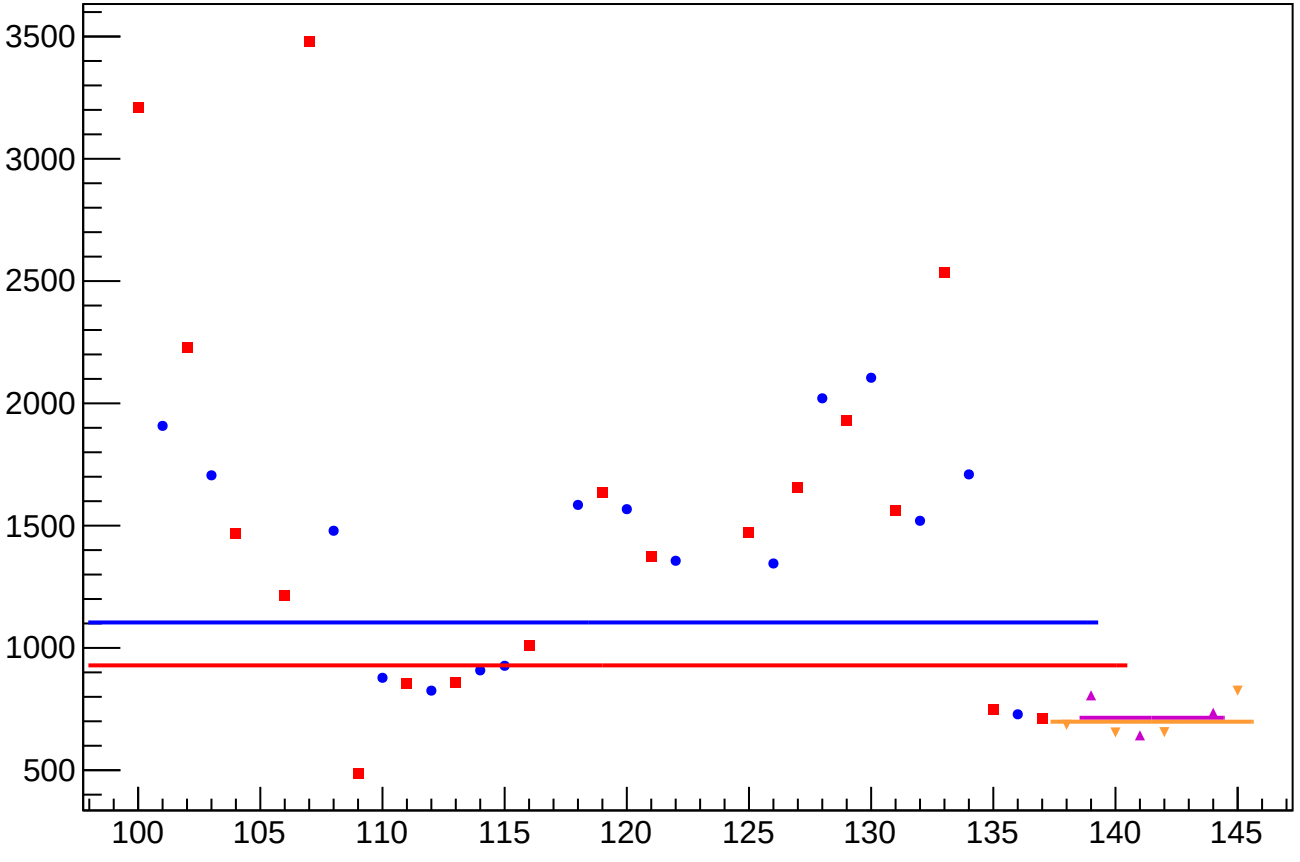
Right: 207.164+/-294.599 $\chi^2$/NDF: 40.3/33

In: -124.365+/-313.523 $\chi^2$/NDF:28.3/18

Out: 696.610+/-286.283 $\chi^2$/NDF:18.7/21

All: 323.331+/-211.408 $\chi^2$/NDF: 50.8/40

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: 698.327+/-0.294 $\chi^2$/NDF:50002.4/3

Right Out: 928.629+/-0.279 $\chi^2$/NDF: 3054381.5/17

Left In: 714.370+/-0.314 $\chi^2$/NDF:45104.6/2

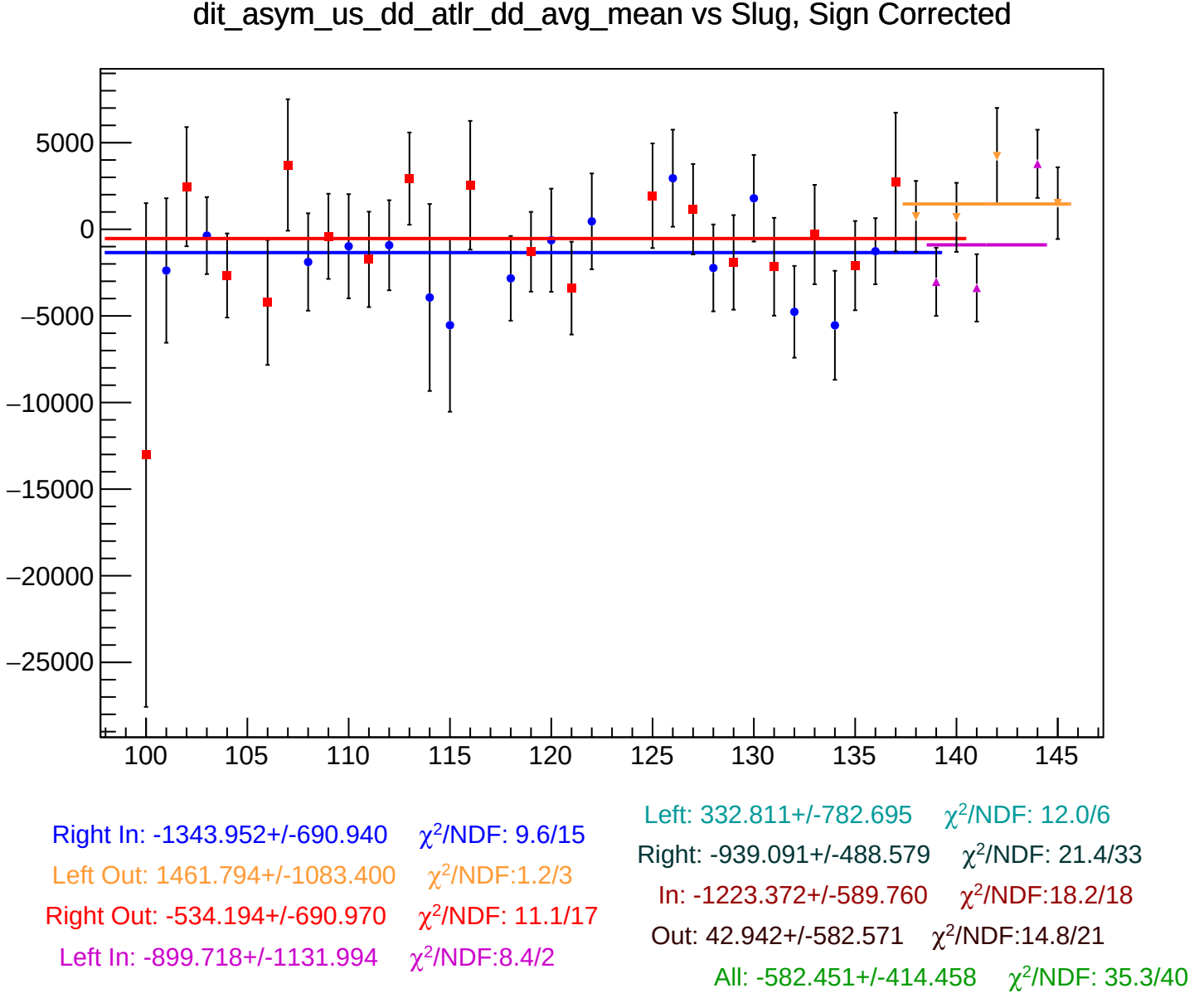
Left: 705.816+/-0.215 $\chi^2$/NDF: 96497.4/6

Right: 1006.404+/-0.208 $\chi^2$/NDF: 5123967.6/33

In: 910.015+/-0.222 $\chi^2$/NDF:2712192.8/18

Out: 819.415+/-0.202 $\chi^2$/NDF:3427098.3/21

All: 860.609+/-0.149 $\chi^2$/NDF: 6230366.1/40


dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected
5000
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−20000
−25000
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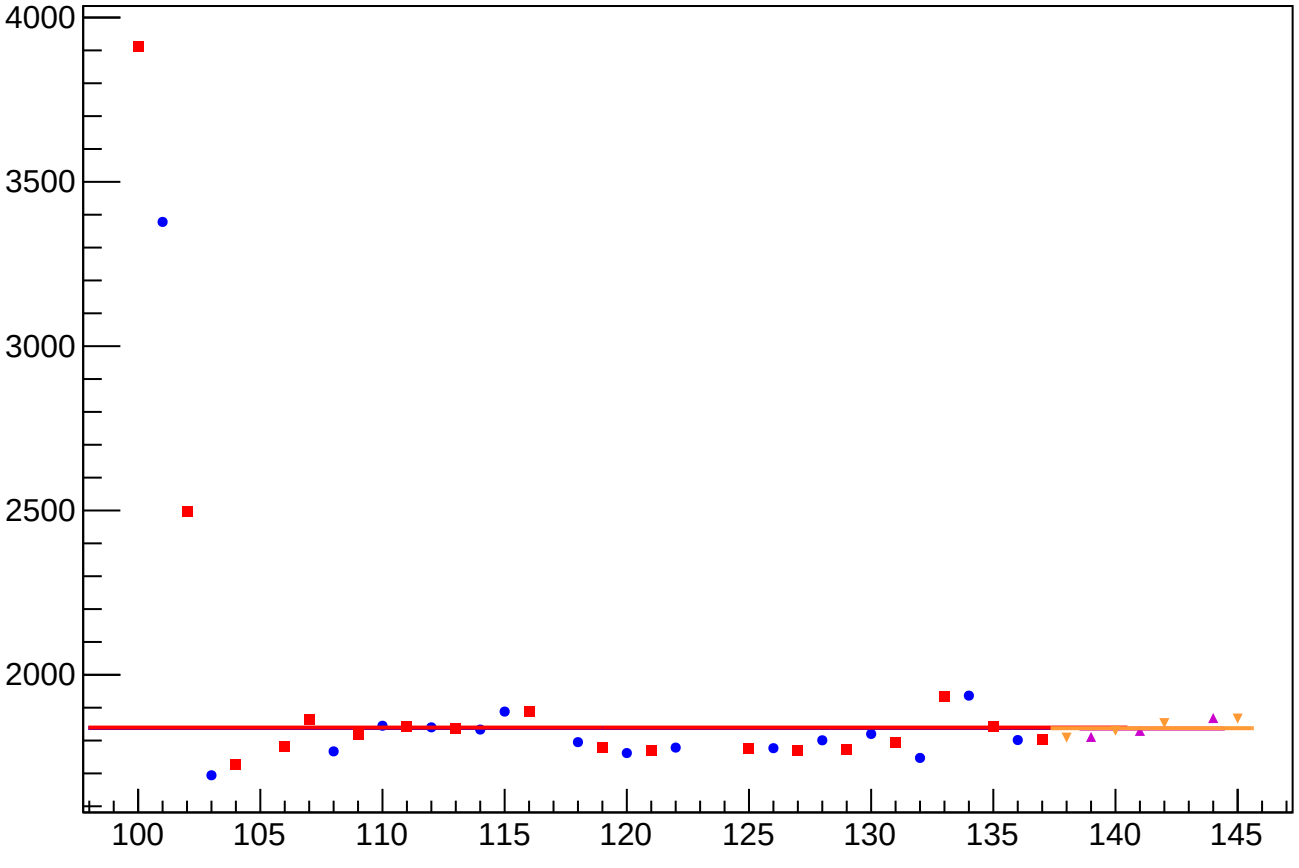
115
120
125
130
135
140
145
Right In: -1343.952+/-690.940 χ²/NDF: 9.6/15
Left Out: 1461.794+/-1083.400 χ²/NDF:1.2/3
Right Out: -534.194+/-690.970 χ²/NDF: 11.1/17
Left In: -899.718+/-1131.994 χ²/NDF:8.4/2
Left: 332.811+/-782.695 χ²/NDF: 12.0/6
Right: -939.091+/-488.579 χ²/NDF: 21.4/33
In: -1223.372+/-589.760 χ²/NDF:18.2/18
Out: 42.942+/-582.571 χ²/NDF:14.8/21
All: -582.451+/-414.458 χ²/NDF: 35.3/40




Right In: 1838.159+/-0.489 $\chi^2$/NDF: 291984.0/15

Left Out: 1837.549+/-0.766 $\chi^2$/NDF:881.2/3

Right Out: 1839.517+/-0.489 $\chi^2$/NDF: 128253.5/17

Left In: 1836.318+/-0.800 $\chi^2$/NDF:887.1/2

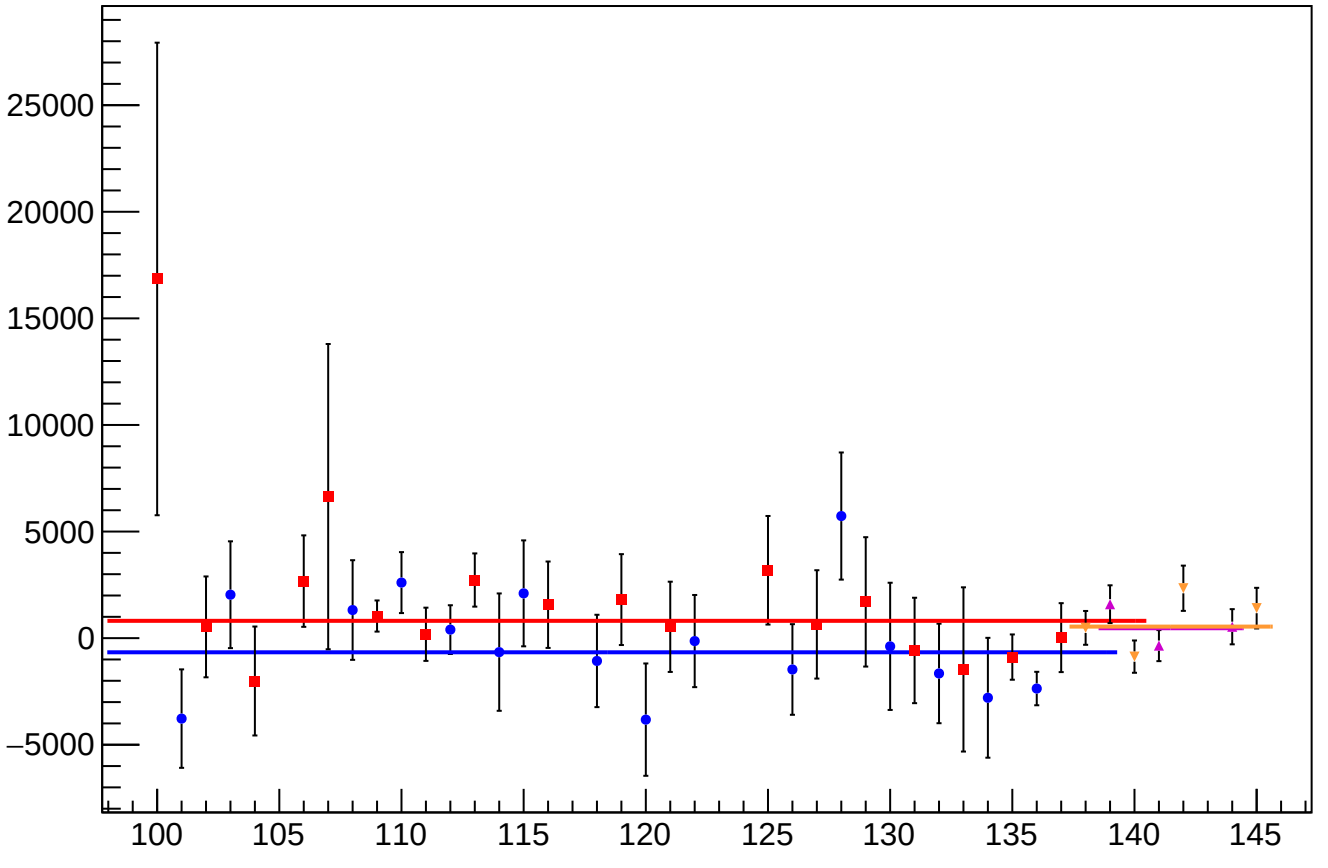
Left: 1836.961+/-0.553 $\chi^2$/NDF: 1769.5/6

Right: 1838.838+/-0.345 $\chi^2$/NDF: 420241.4/33

In: 1837.659+/-0.417 $\chi^2$/NDF:292875.0/18

Out: 1838.948+/-0.412 $\chi^2$/NDF:129139.4/21

All: 1838.312+/-0.293 $\chi^2$/NDF: 422019.3/40




Right In: -663.489+/-445.903 $\chi^2$/NDF: 22.8/15

Left Out: 541.784+/-433.569 $\chi^2$/NDF:7.2/3

Right Out: 812.187+/-397.187 $\chi^2$/NDF: 12.2/17

Left In: 464.753+/-464.886 $\chi^2$/NDF:2.9/2

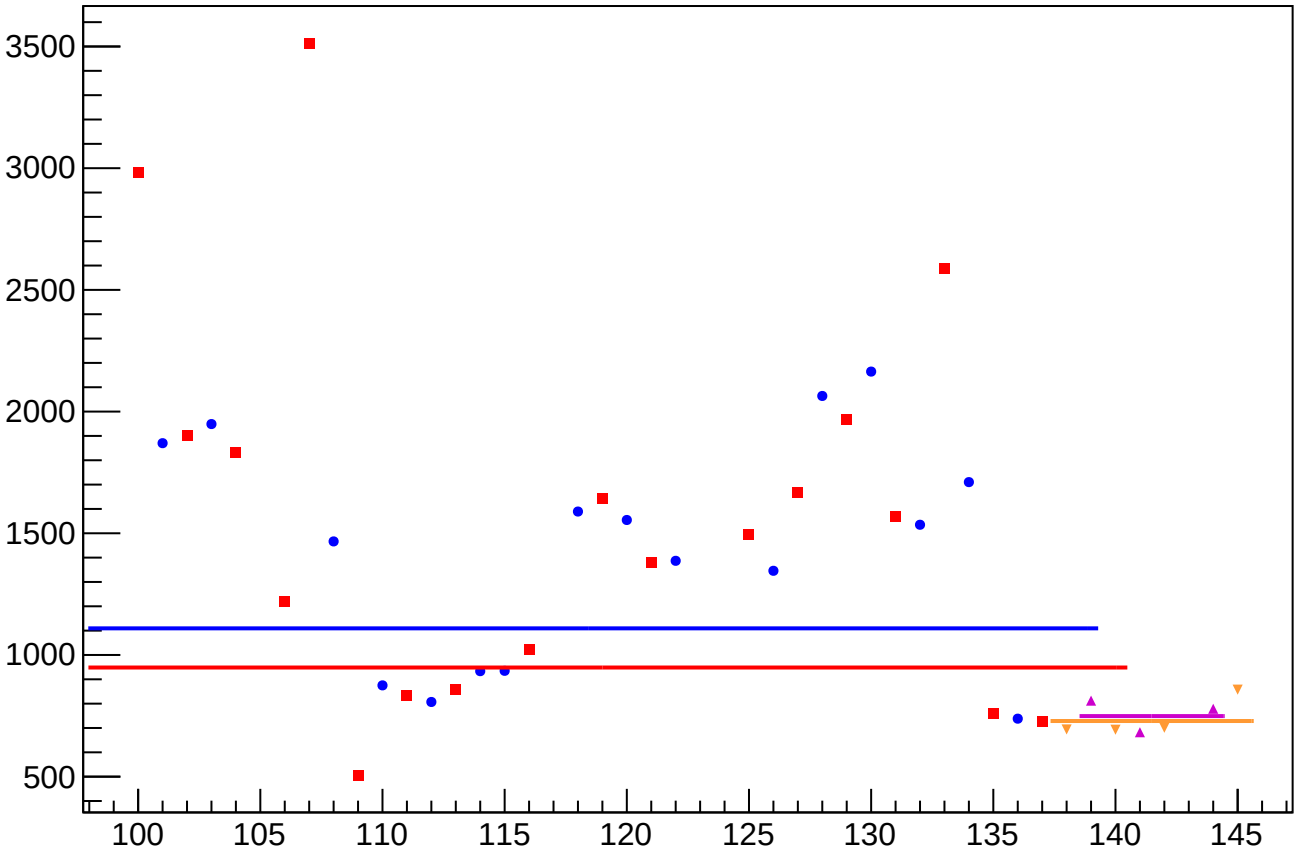
Left: 505.950+/-317.073 $\chi^2$/NDF: 10.1/6

Right: 159.335+/-296.587 $\chi^2$/NDF: 41.1/33

In: -122.873+/-321.803 $\chi^2$/NDF:28.7/18

Out: 688.805+/-292.873 $\chi^2$/NDF:19.6/21

All: 321.084+/-216.599 $\chi^2$/NDF: 51.8/40




Right In: 1109.362+/-0.315 $\chi^2$/NDF: 1973363.9/15

Left Out: 728.619+/-0.307 $\chi^2$/NDF:46177.7/3

Right Out: 948.438+/-0.281 $\chi^2$/NDF: 3053670.4/17

Left In: 748.870+/-0.329 $\chi^2$/NDF:29499.0/2

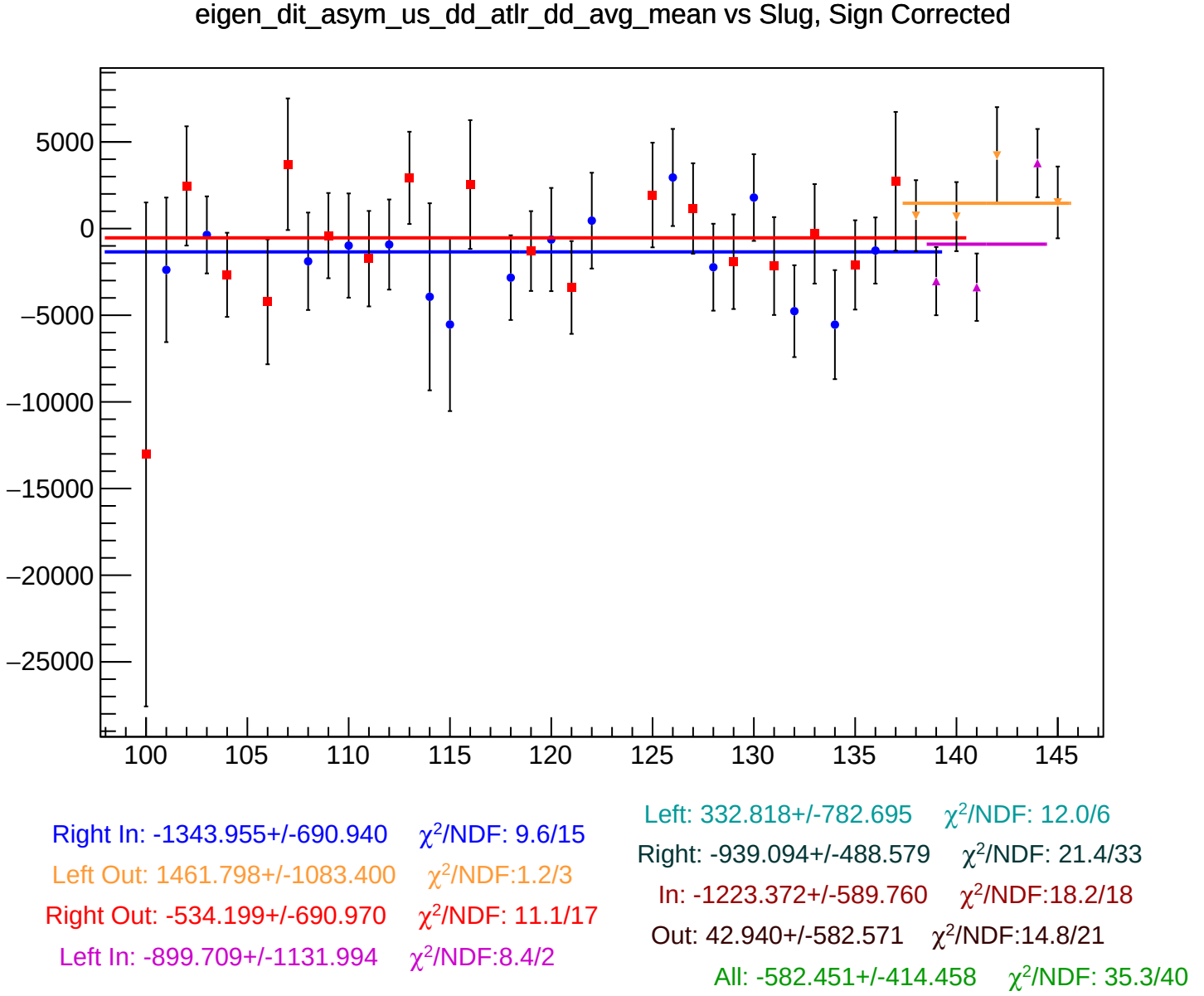
Left: 738.039+/-0.224 $\chi^2$/NDF: 77706.5/6

Right: 1019.632+/-0.210 $\chi^2$/NDF: 5172280.0/33

In: 936.626+/-0.228 $\chi^2$/NDF:2629225.5/18

Out: 848.137+/-0.207 $\chi^2$/NDF:3379368.0/21

All: 888.226+/-0.153 $\chi^2$/NDF: 6091308.9/40


eigen_dit_asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected
5000
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−15000
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−25000
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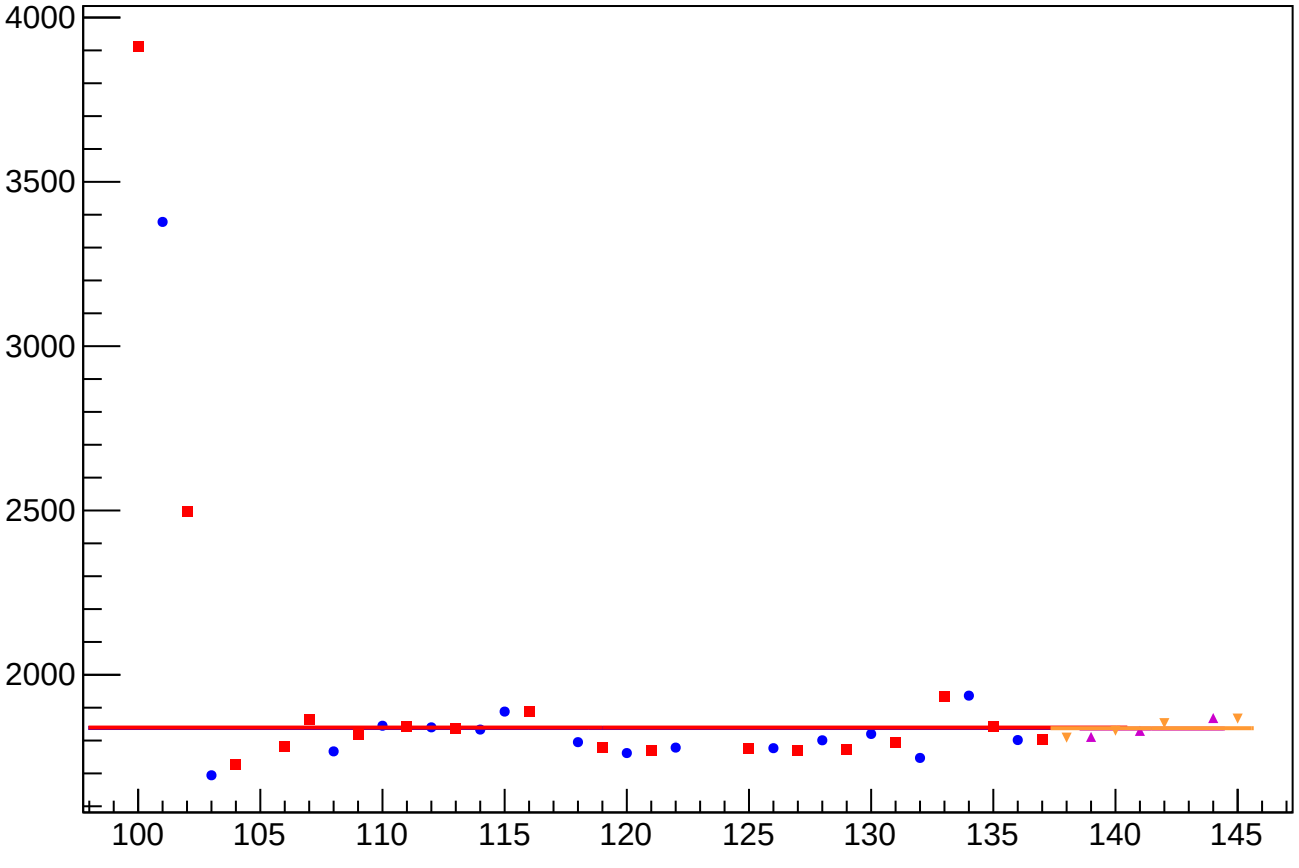
145
Right In: -1343.955+/-690.940 χ²/NDF: 9.6/15
Left Out: 1461.798+/-1083.400 χ²/NDF:1.2/3
Right Out: -534.199+/-690.970 χ²/NDF: 11.1/17
Left In: -899.709+/-1131.994 χ²/NDF:8.4/2
Left: 332.818+/-782.695 χ²/NDF: 12.0/6
Right: -939.094+/-488.579 χ²/NDF: 21.4/33
In: -1223.372+/-589.760 χ²/NDF:18.2/18
Out: 42.940+/-582.571 χ²/NDF:14.8/21
All: -582.451+/-414.458 χ²/NDF: 35.3/40




Right In: 1838.159+/-0.489 $\chi^2$/NDF: 291984.0/15

Left Out: 1837.549+/-0.766 $\chi^2$/NDF:881.2/3

Right Out: 1839.517+/-0.489 $\chi^2$/NDF: 128253.6/17

Left In: 1836.318+/-0.800 $\chi^2$/NDF:887.1/2

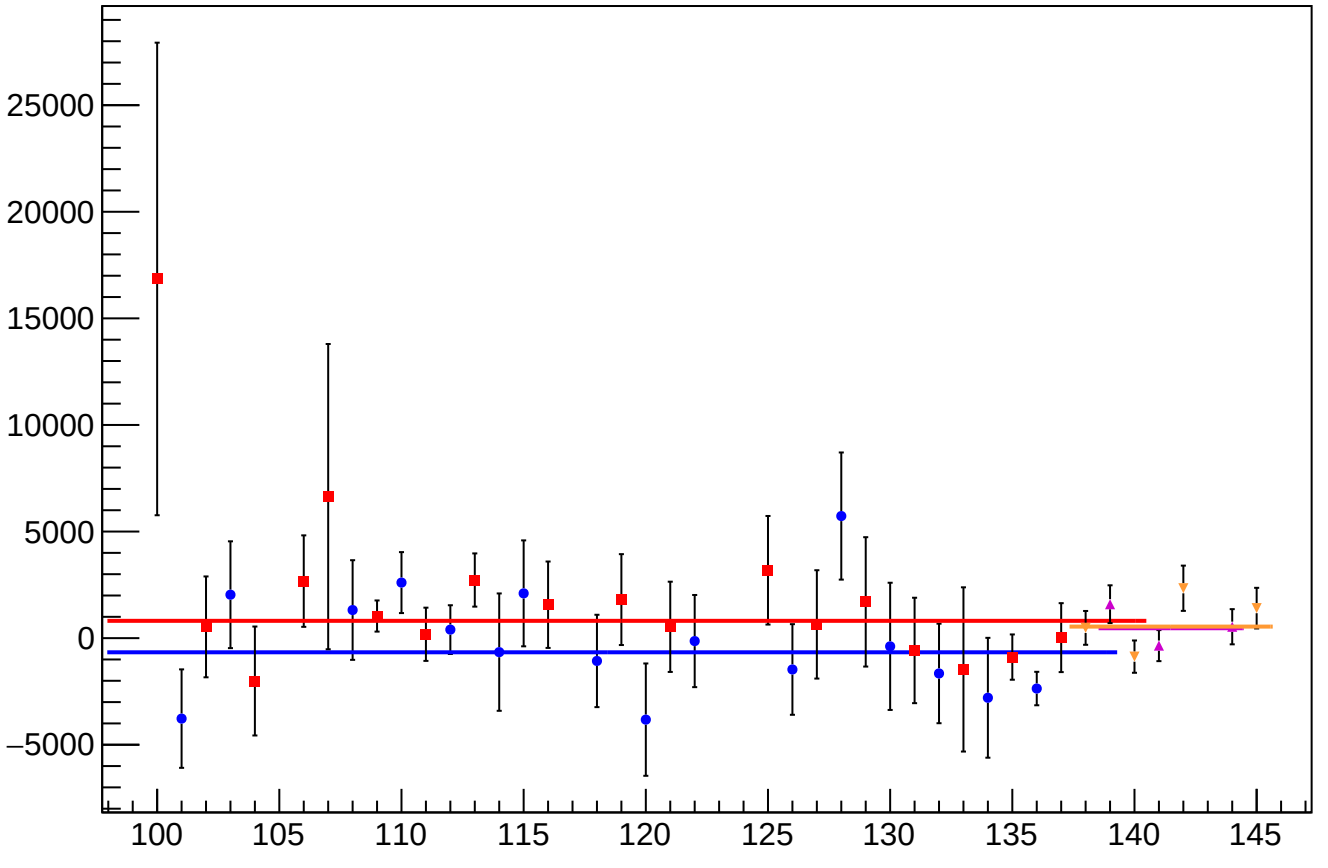
Left: 1836.961+/-0.553 $\chi^2$/NDF: 1769.5/6

Right: 1838.838+/-0.345 $\chi^2$/NDF: 420241.4/33

In: 1837.659+/-0.417 $\chi^2$/NDF:292875.0/18

Out: 1838.948+/-0.412 $\chi^2$/NDF:129139.4/21

All: 1838.312+/-0.293 $\chi^2$/NDF: 422019.3/40




Right In: -663.476+/-445.904 $\chi^2$/NDF: 22.8/15

Left Out: 541.789+/-433.573 $\chi^2$/NDF:7.2/3

Right Out: 812.194+/-397.187 $\chi^2$/NDF: 12.2/17

Left In: 464.748+/-464.889 $\chi^2$/NDF:2.9/2

Left: 505.951+/-317.076 $\chi^2$/NDF: 10.1/6

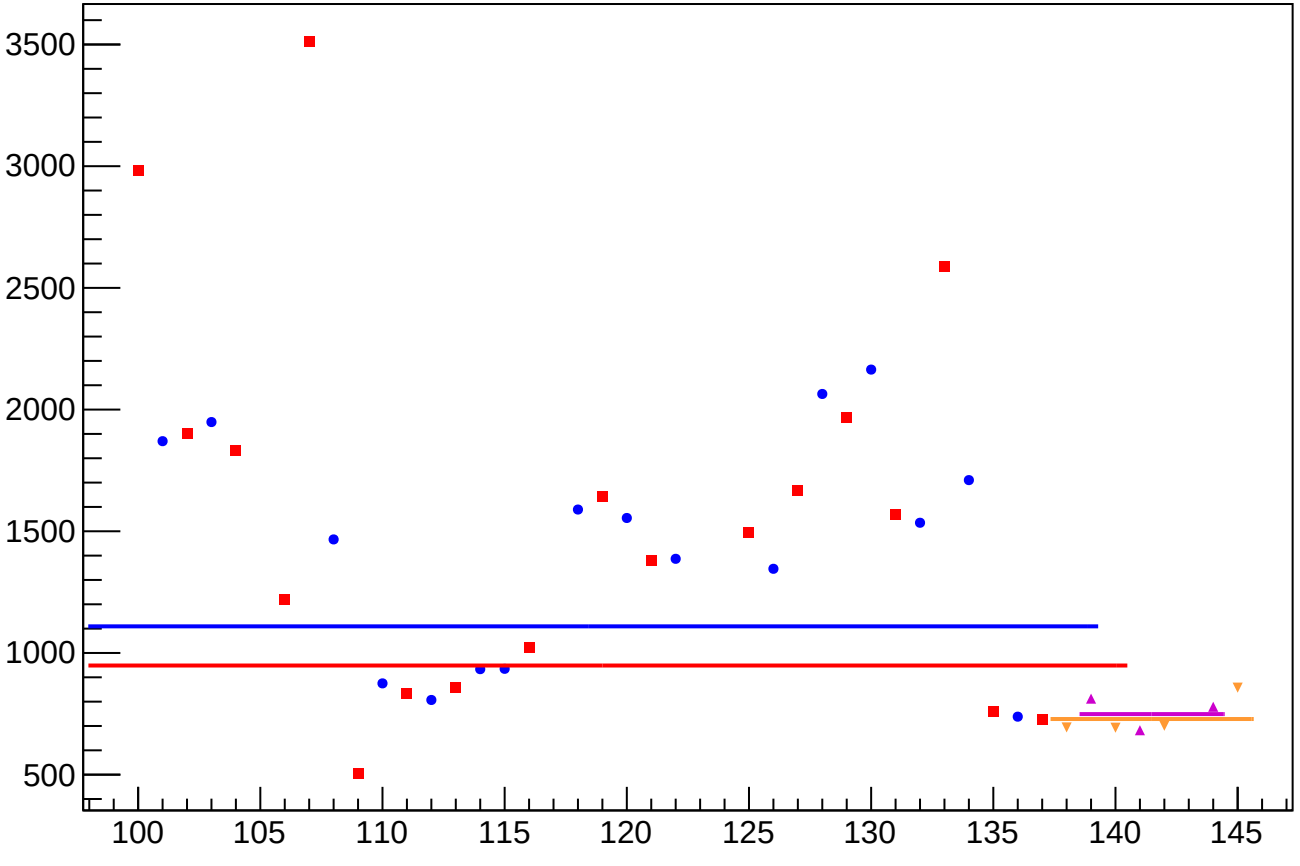
Right: 159.344+/-296.588 $\chi^2$/NDF: 41.1/33

In: -122.871+/-321.804 $\chi^2$/NDF:28.7/18

Out: 688.812+/-292.874 $\chi^2$/NDF:19.6/21

All: 321.088+/-216.600 $\chi^2$/NDF: 51.8/40

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: 728.625+/-0.307 $\chi^2$/NDF:46172.6/3

Right Out: 948.441+/-0.281 $\chi^2$/NDF: 3053644.5/17

Left In: 748.875+/-0.329 $\chi^2$/NDF:29502.8/2

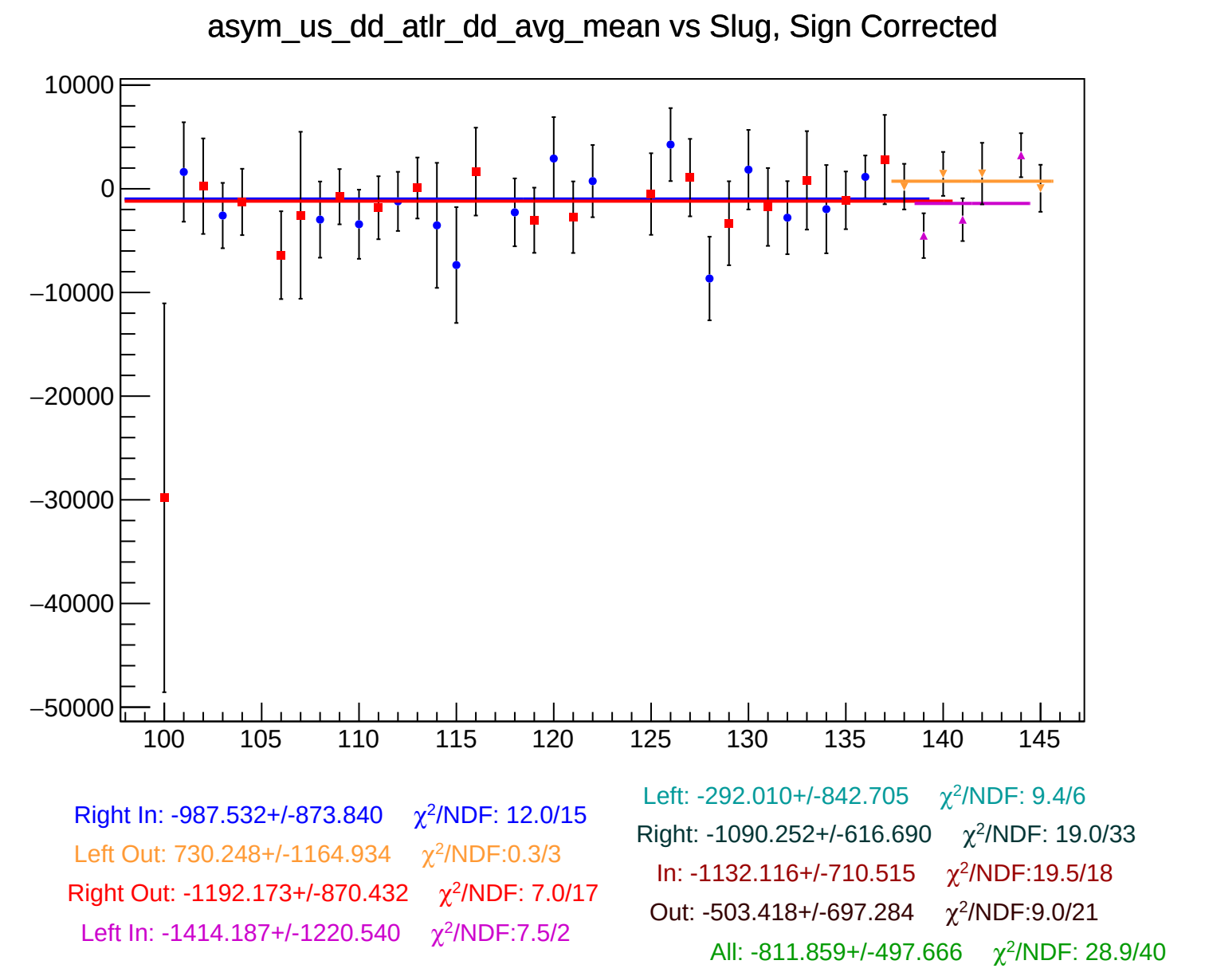
Left: 738.045+/-0.224 $\chi^2$/NDF: 77704.8/6

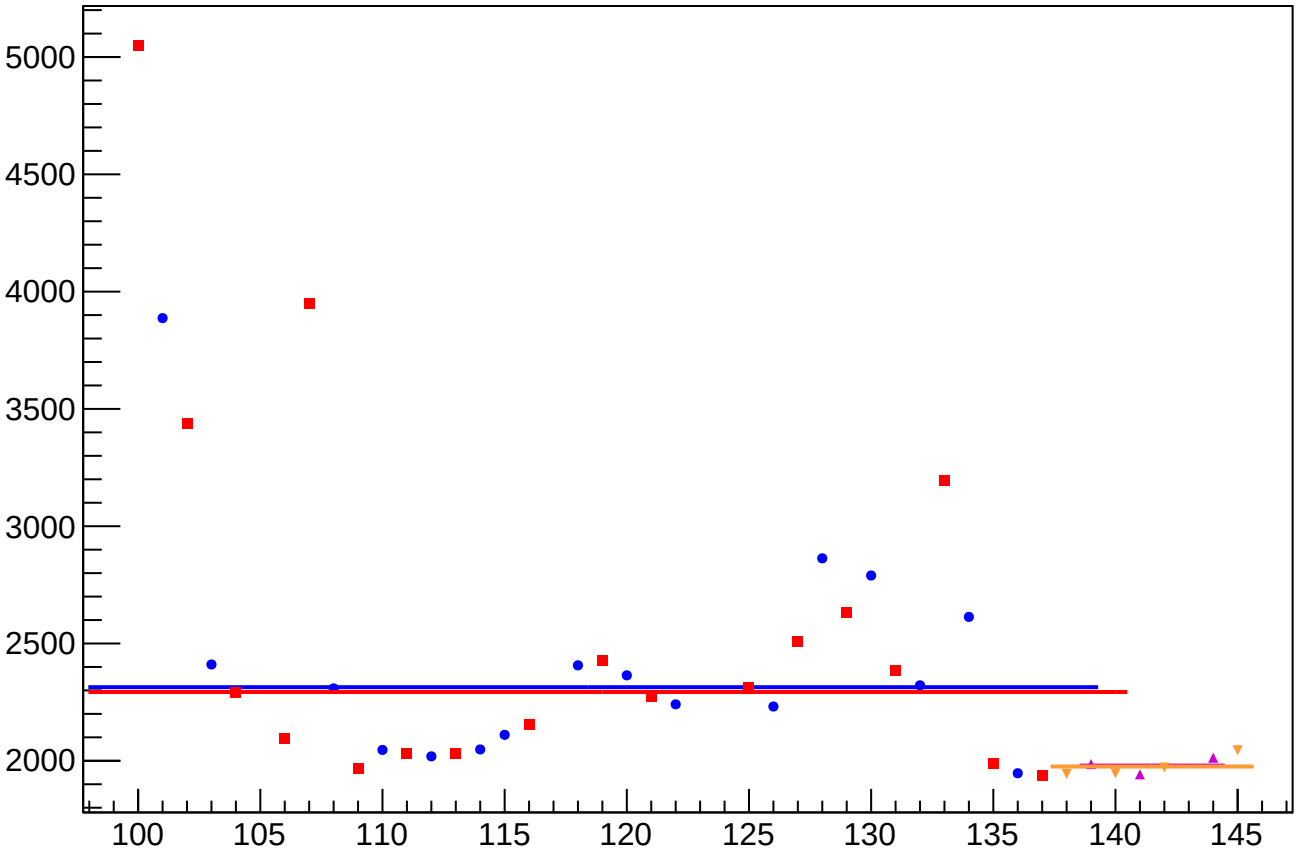
Right: 1019.635+/-0.210 $\chi^2$/NDF: 5172215.4/33

In: 936.631+/-0.228 $\chi^2$/NDF:2629178.9/18

Out: 848.142+/-0.207 $\chi^2$/NDF:3379324.7/21

All: 888.231+/-0.153 $\chi^2$/NDF: 6091218.3/40


asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
105
110
115
120
125
130
135
140
145
Right In: -987.532+/-873.840 χ²/NDF: 12.0/15
Left Out: 730.248+/-1164.934 χ²/NDF:0.3/3
Right Out: -1192.173+/-870.432 χ²/NDF: 7.0/17
Left In: -1414.187+/-1220.540 χ²/NDF:7.5/2
Left: -292.010+/-842.705 χ²/NDF: 9.4/6
Right: -1090.252+/-616.690 χ²/NDF: 19.0/33
In: -1132.116+/-710.515 χ²/NDF:19.5/18
Out: -503.418+/-697.284 χ²/NDF:9.0/21
All: -811.859+/-497.666 χ²/NDF: 28.9/40




Right In: 2313.740+/-0.618 $\chi^2$/NDF: 402756.6/15

Left Out: 1975.509+/-0.824 $\chi^2$/NDF:2646.8/3

Right Out: 2293.273+/-0.615 $\chi^2$/NDF: 453202.3/17

Left In: 1979.689+/-0.863 $\chi^2$/NDF:1174.0/2

Left: 1977.502+/-0.596 $\chi^2$/NDF: 3833.1/6

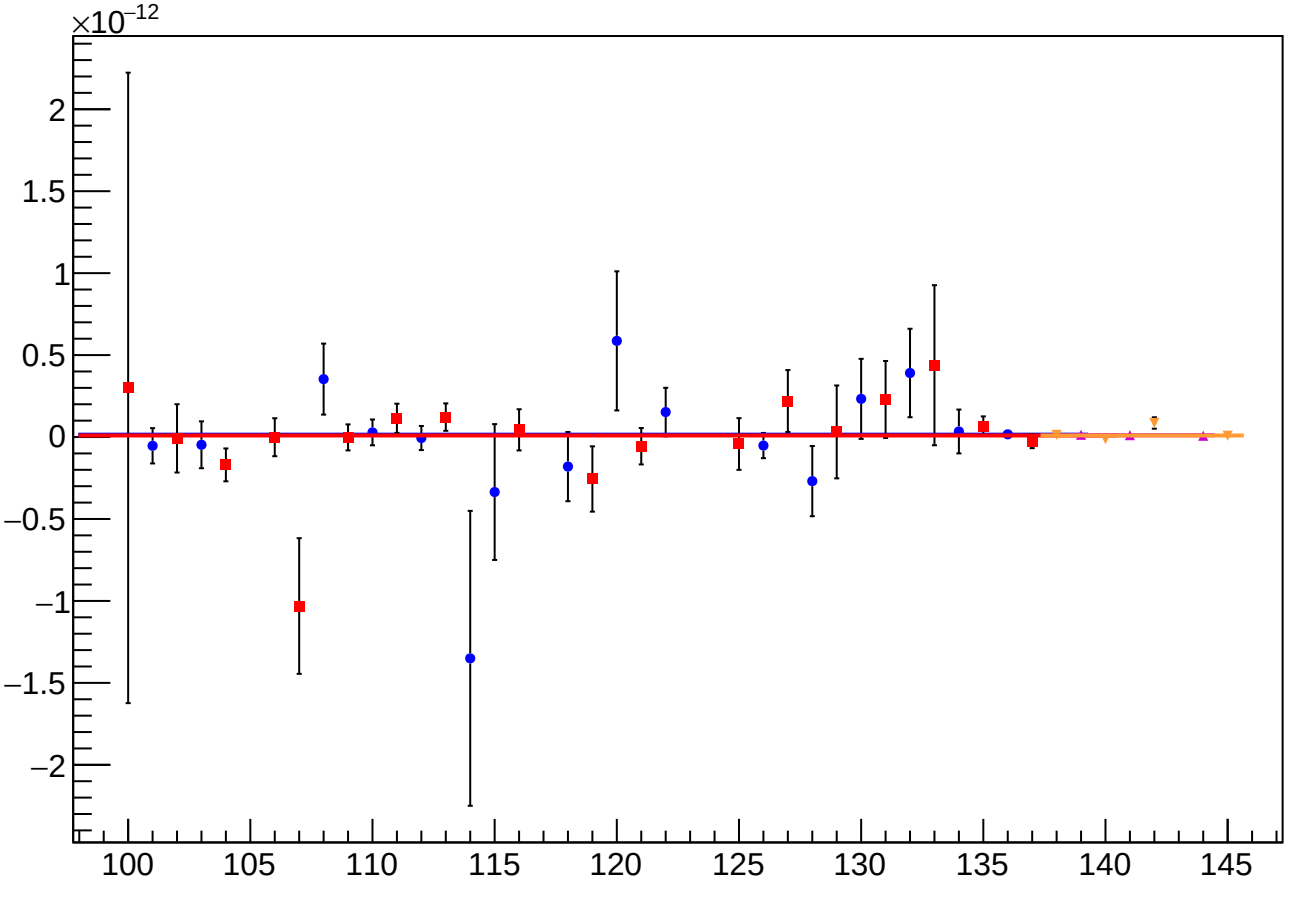
Right: 2303.467+/-0.436 $\chi^2$/NDF: 856509.6/33

In: 2200.539+/-0.502 $\chi^2$/NDF:502976.3/18

Out: 2179.428+/-0.493 $\chi^2$/NDF:551345.8/21

All: 2189.785+/-0.352 $\chi^2$/NDF: 1055221.5/40

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.5/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.0/2

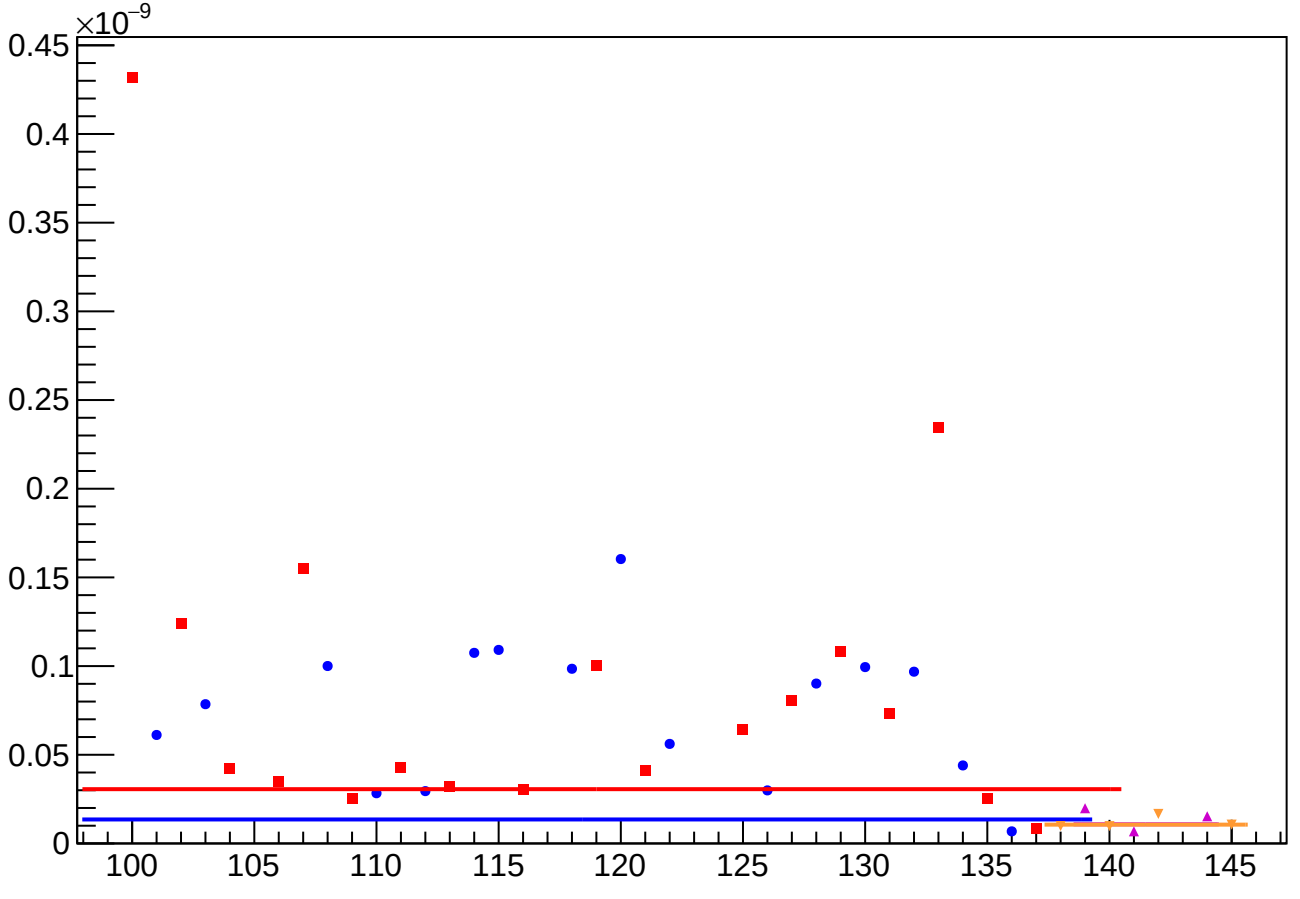
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.5/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 34.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:15.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:26.0/21

All: 0.000+/-0.000 $\chi^2$/NDF: 41.0/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3416094.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:68592.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2349183.7/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:412735.8/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 481637.2/6

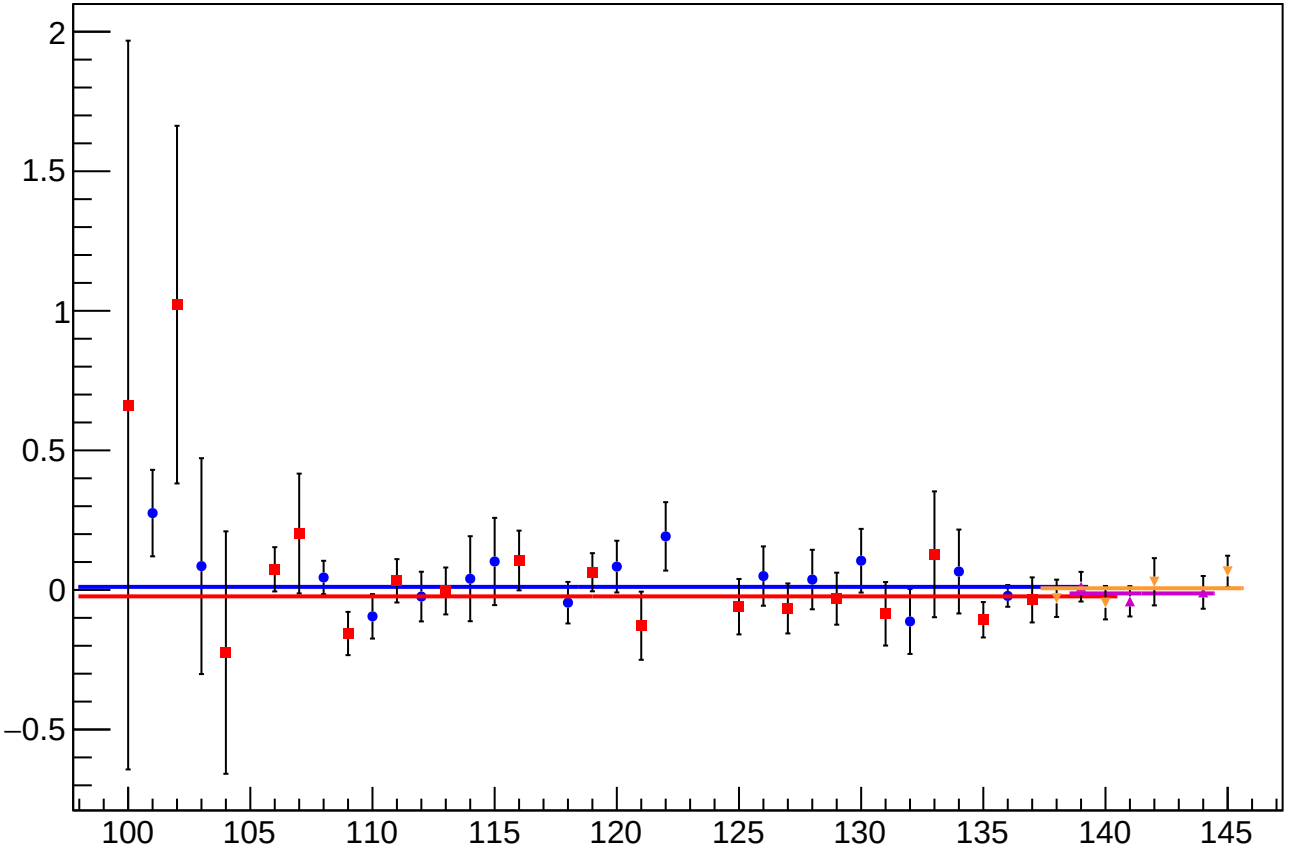
Right: 0.000+/-0.000 $\chi^2$/NDF: 6517274.2/33

In: 0.000+/-0.000 $\chi^2$/NDF:3875149.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3586142.5/21

All: 0.000+/-0.000 $\chi^2$/NDF: 7499894.4/40

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: 0.006+/-0.032 $\chi^2$/NDF:2.3/3

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 16.0/17

Left In: -0.012+/-0.032 $\chi^2$/NDF:0.5/2

Left: -0.003+/-0.023 $\chi^2$/NDF: 2.9/6

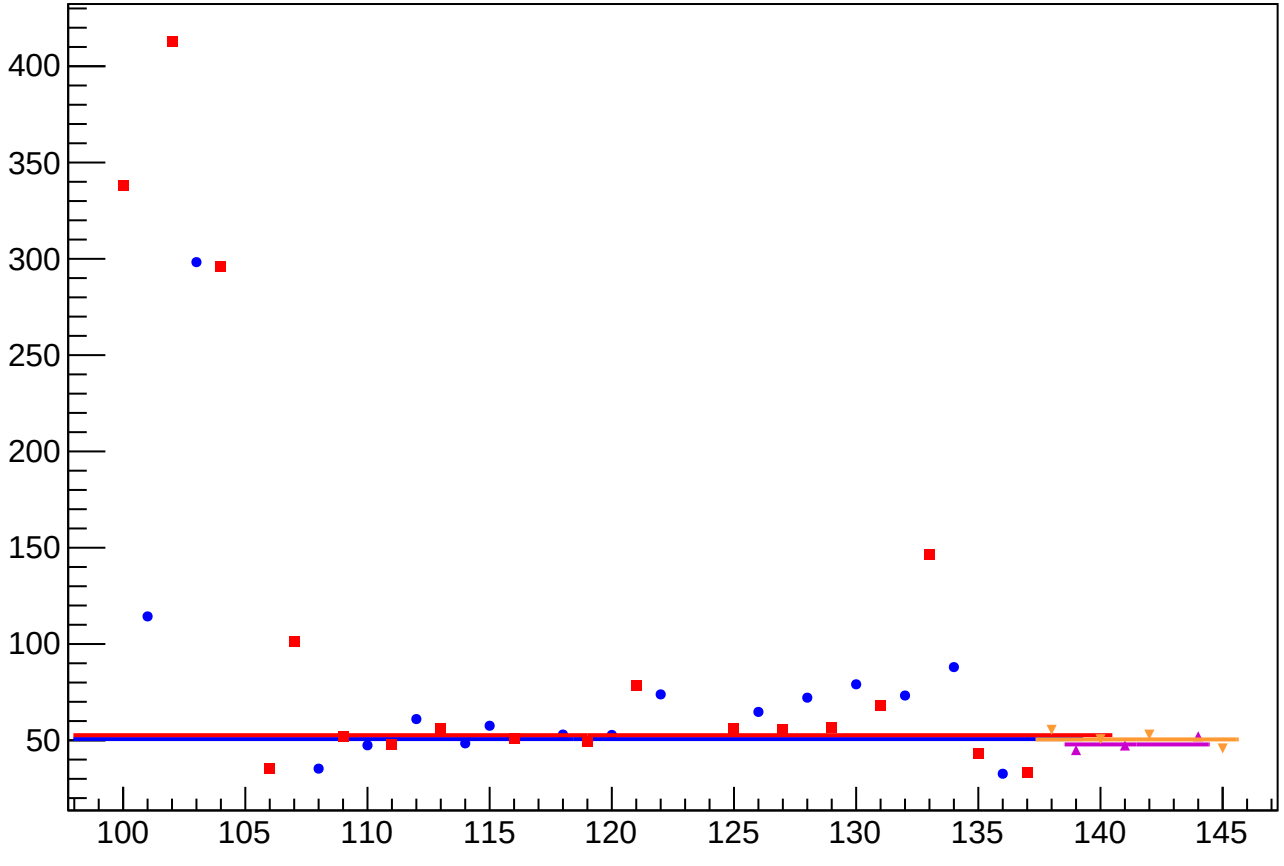
Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.004+/-0.018 $\chi^2$/NDF:12.6/18

Out: -0.013+/-0.019 $\chi^2$/NDF:18.8/21

All: -0.004+/-0.013 $\chi^2$/NDF: 31.8/40

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 50.645+/-0.015 $\chi^2$/NDF: 2266445.6/15

Left Out: 50.468+/-0.023 $\chi^2$/NDF:26728.1/3

Right Out: 52.666+/-0.016 $\chi^2$/NDF: 2211938.1/17

Left In: 47.873+/-0.023 $\chi^2$/NDF:16732.5/2

Left: 49.156+/-0.016 $\chi^2$/NDF: 50008.4/6

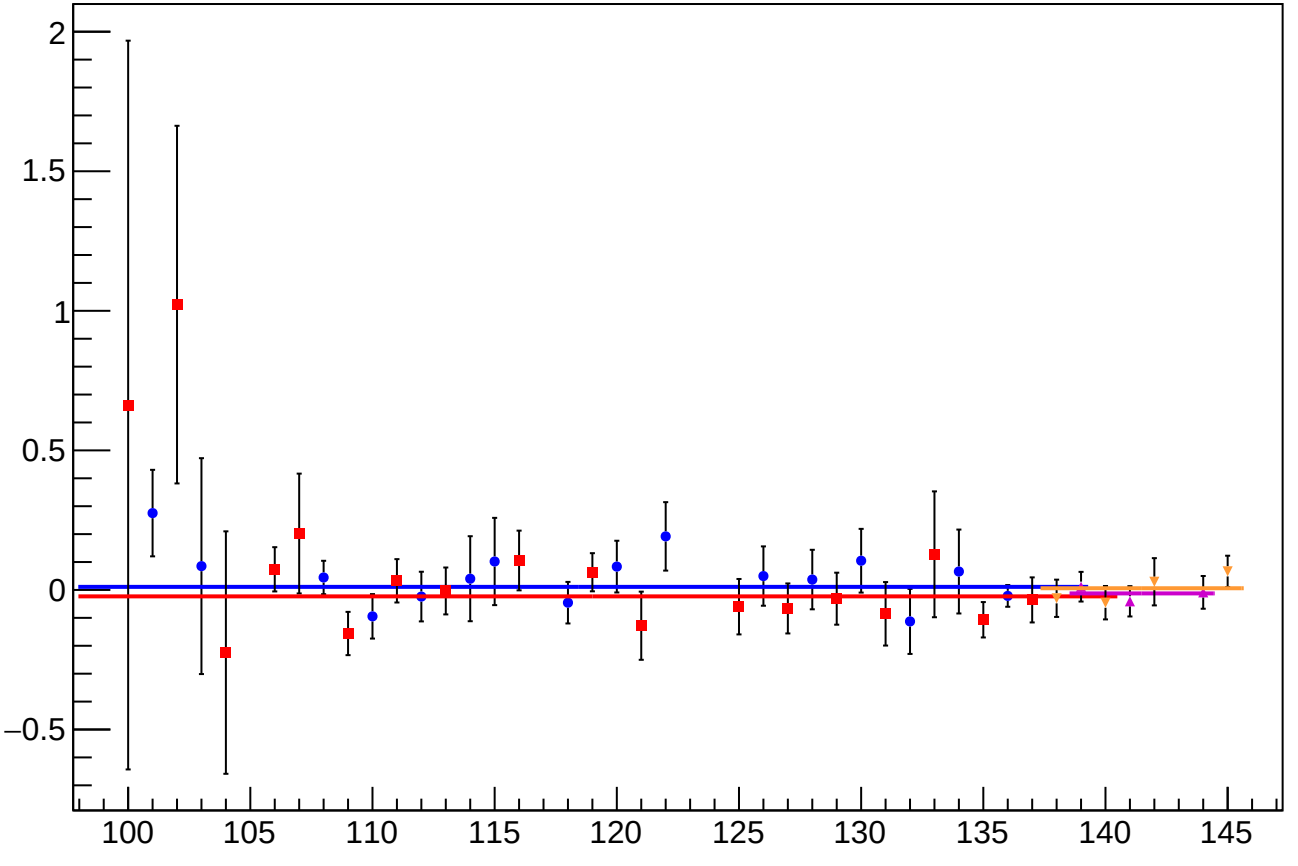
Right: 51.600+/-0.011 $\chi^2$/NDF: 4486449.2/33

In: 49.758+/-0.013 $\chi^2$/NDF:2293458.8/18

Out: 51.920+/-0.013 $\chi^2$/NDF:2244801.5/21

All: 50.795+/-0.009 $\chi^2$/NDF: 4552047.0/40

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: 0.006+/-0.032 $\chi^2$/NDF:2.3/3

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 16.0/17

Left In: -0.012+/-0.032 $\chi^2$/NDF:0.5/2

Left: -0.003+/-0.023 $\chi^2$/NDF: 2.9/6

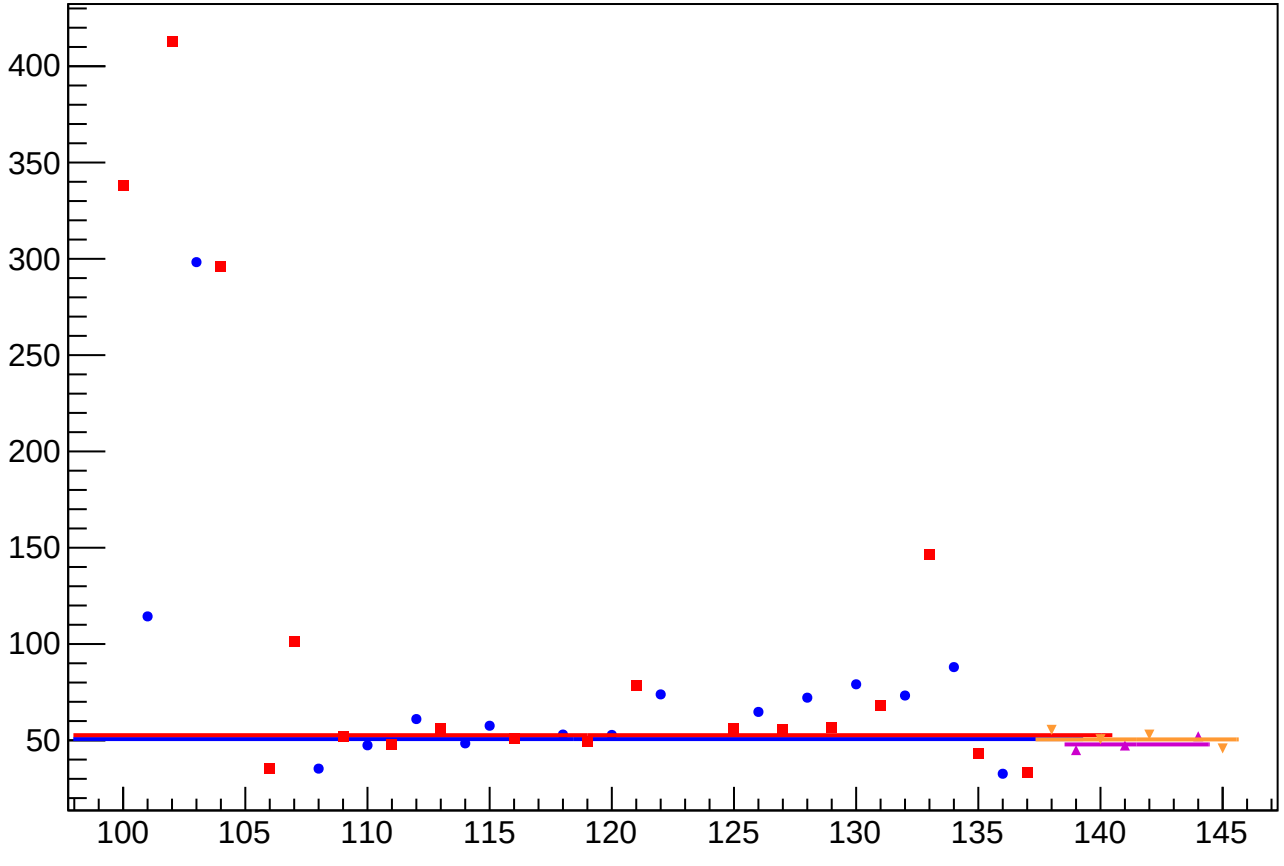
Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.004+/-0.018 $\chi^2$/NDF:12.6/18

Out: -0.013+/-0.019 $\chi^2$/NDF:18.8/21

All: -0.004+/-0.013 $\chi^2$/NDF: 31.8/40

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 50.645+/-0.015 $\chi^2$/NDF: 2266445.6/15

Left Out: 50.468+/-0.023 $\chi^2$/NDF:26728.1/3

Right Out: 52.666+/-0.016 $\chi^2$/NDF: 2211938.1/17

Left In: 47.873+/-0.023 $\chi^2$/NDF:16732.5/2

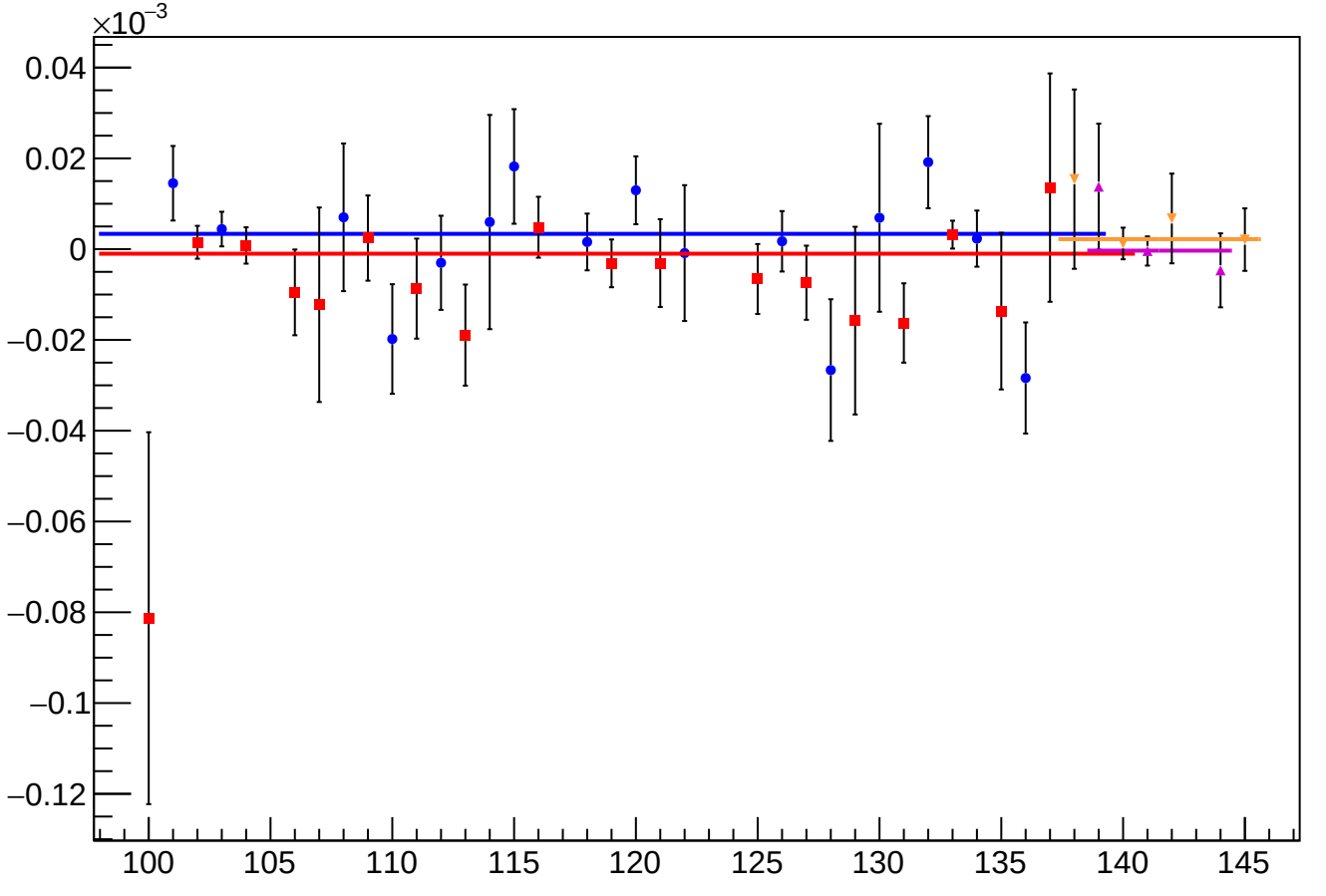
Left: 49.156+/-0.016 $\chi^2$/NDF: 50008.4/6

Right: 51.600+/-0.011 $\chi^2$/NDF: 4486449.2/33

In: 49.758+/-0.013 $\chi^2$/NDF:2293458.8/18

Out: 51.920+/-0.013 $\chi^2$/NDF:2244801.5/21

All: 50.795+/-0.009 $\chi^2$/NDF: 4552047.0/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.7/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.2/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.3/2

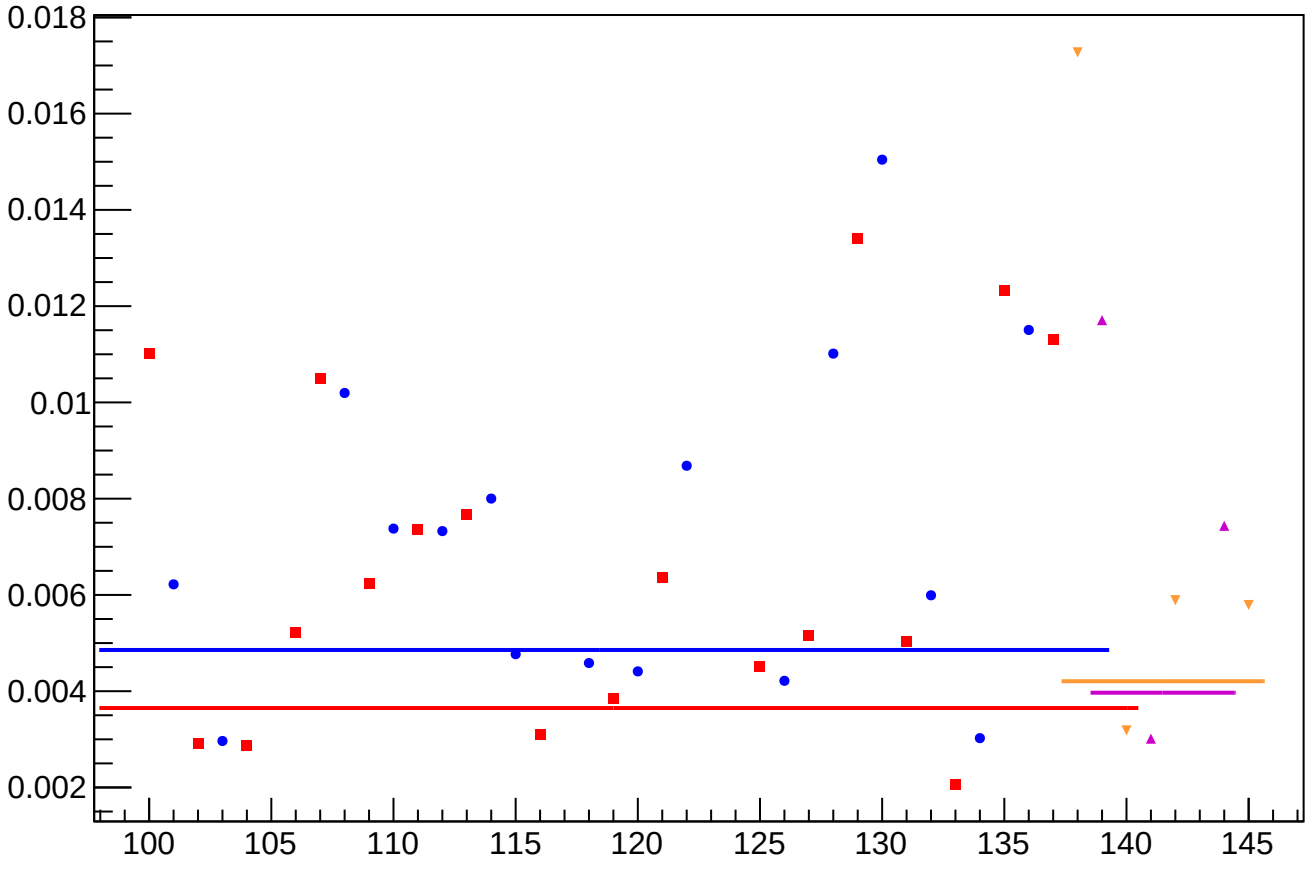
Left: 0.000+/-0.000 $\chi^2$/NDF: 2.4/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 42.3/33

In: 0.000+/-0.000 $\chi^2$/NDF:24.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:18.9/21

All: 0.000+/-0.000 $\chi^2$/NDF: 44.7/40




Right In: 0.005+/-0.000 $\chi^2$/NDF: 2745089.6/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1211114.9/3

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 3108848.8/17

Left In: 0.004+/-0.000 $\chi^2$/NDF:1161314.6/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 2379067.4/6

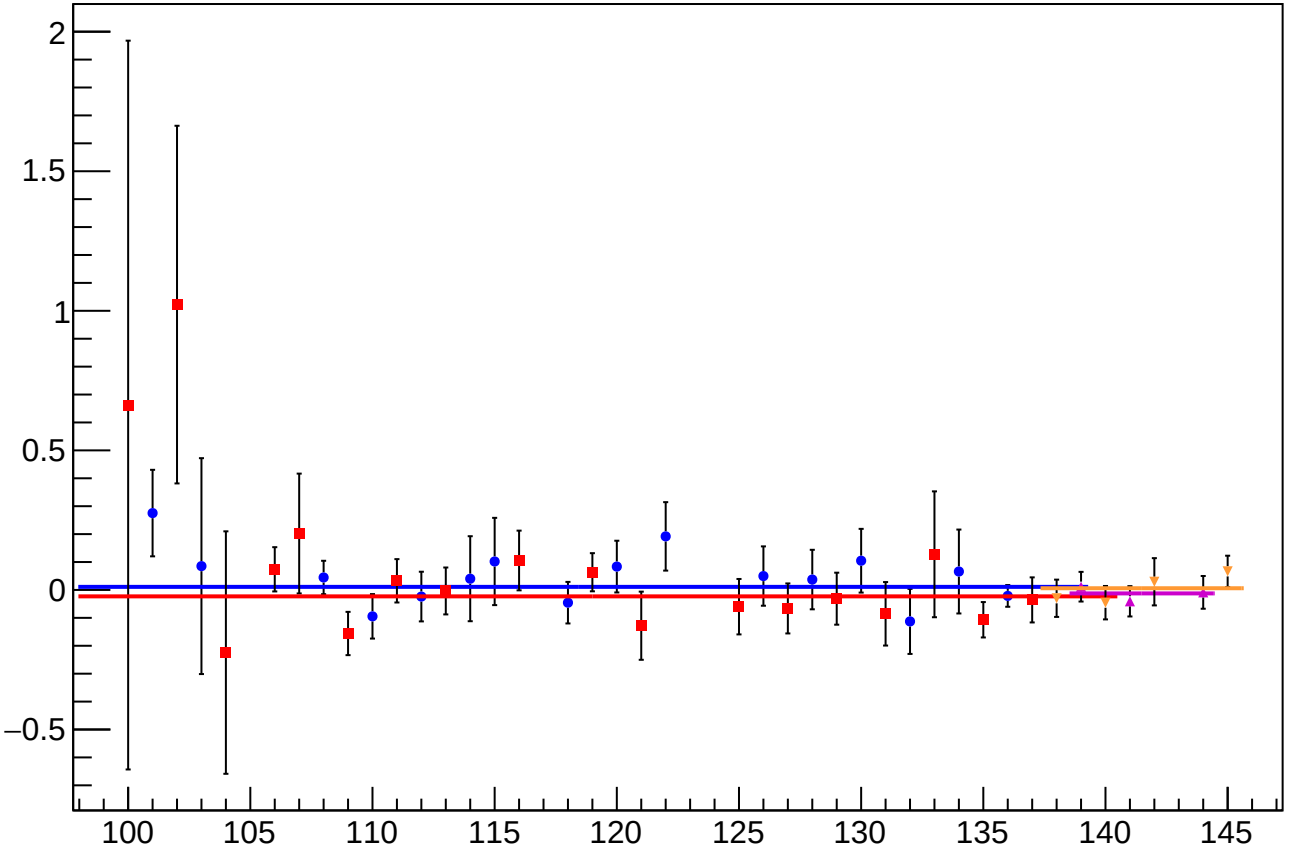
Right: 0.004+/-0.000 $\chi^2$/NDF: 6282872.0/33

In: 0.005+/-0.000 $\chi^2$/NDF:4028940.9/18

Out: 0.004+/-0.000 $\chi^2$/NDF:4376020.7/21

All: 0.004+/-0.000 $\chi^2$/NDF: 8661939.4/40

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: 0.006+/-0.032 $\chi^2$/NDF:2.3/3

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 15.9/17

Left In: -0.012+/-0.032 $\chi^2$/NDF:0.5/2

Left: -0.003+/-0.023 $\chi^2$/NDF: 2.9/6

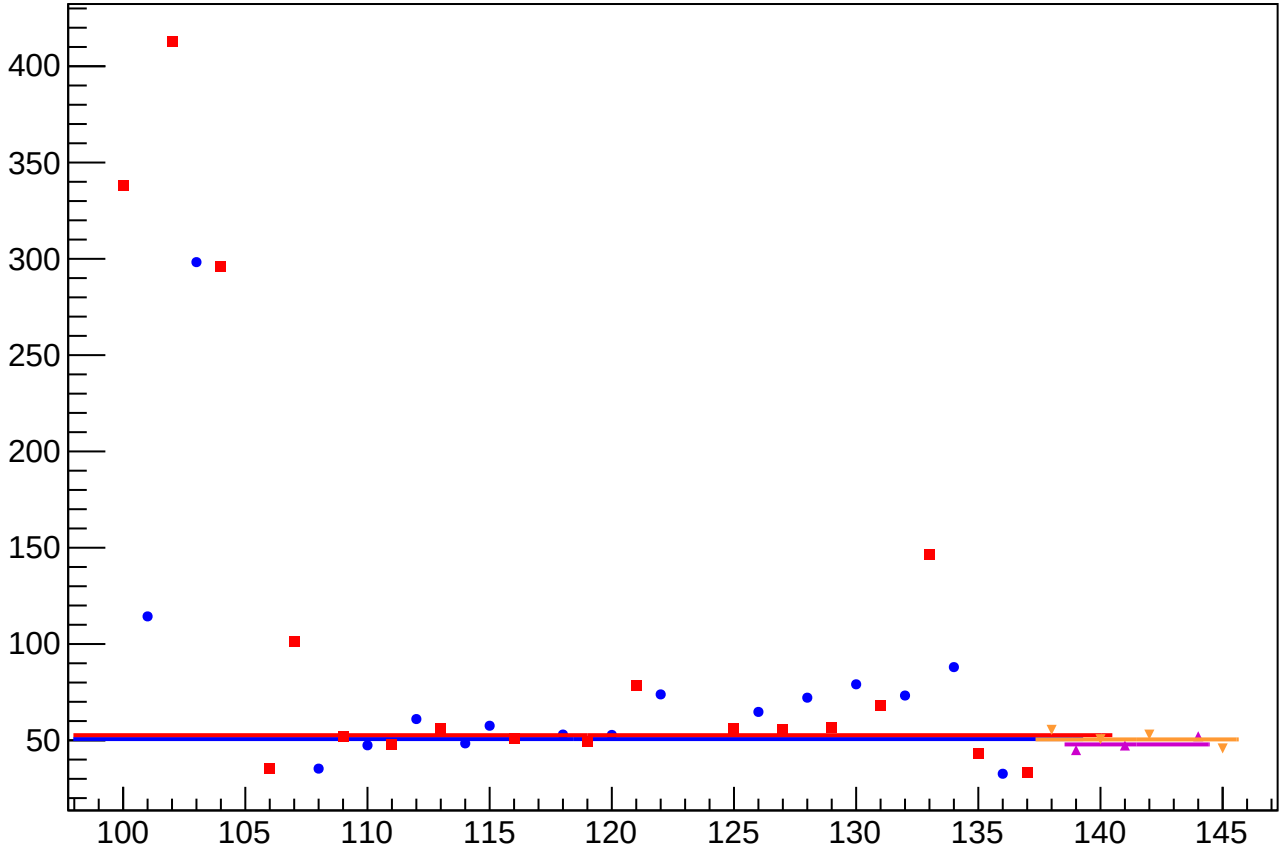
Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.004+/-0.018 $\chi^2$/NDF:12.6/18

Out: -0.013+/-0.019 $\chi^2$/NDF:18.8/21

All: -0.004+/-0.013 $\chi^2$/NDF: 31.8/40

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 50.646+/-0.015 $\chi^2$/NDF: 2266348.3/15

Left Out: 50.470+/-0.023 $\chi^2$/NDF:26724.2/3

Right Out: 52.667+/-0.016 $\chi^2$/NDF: 2211822.2/17

Left In: 47.875+/-0.023 $\chi^2$/NDF:16728.2/2

Left: 49.157+/-0.016 $\chi^2$/NDF: 50000.8/6

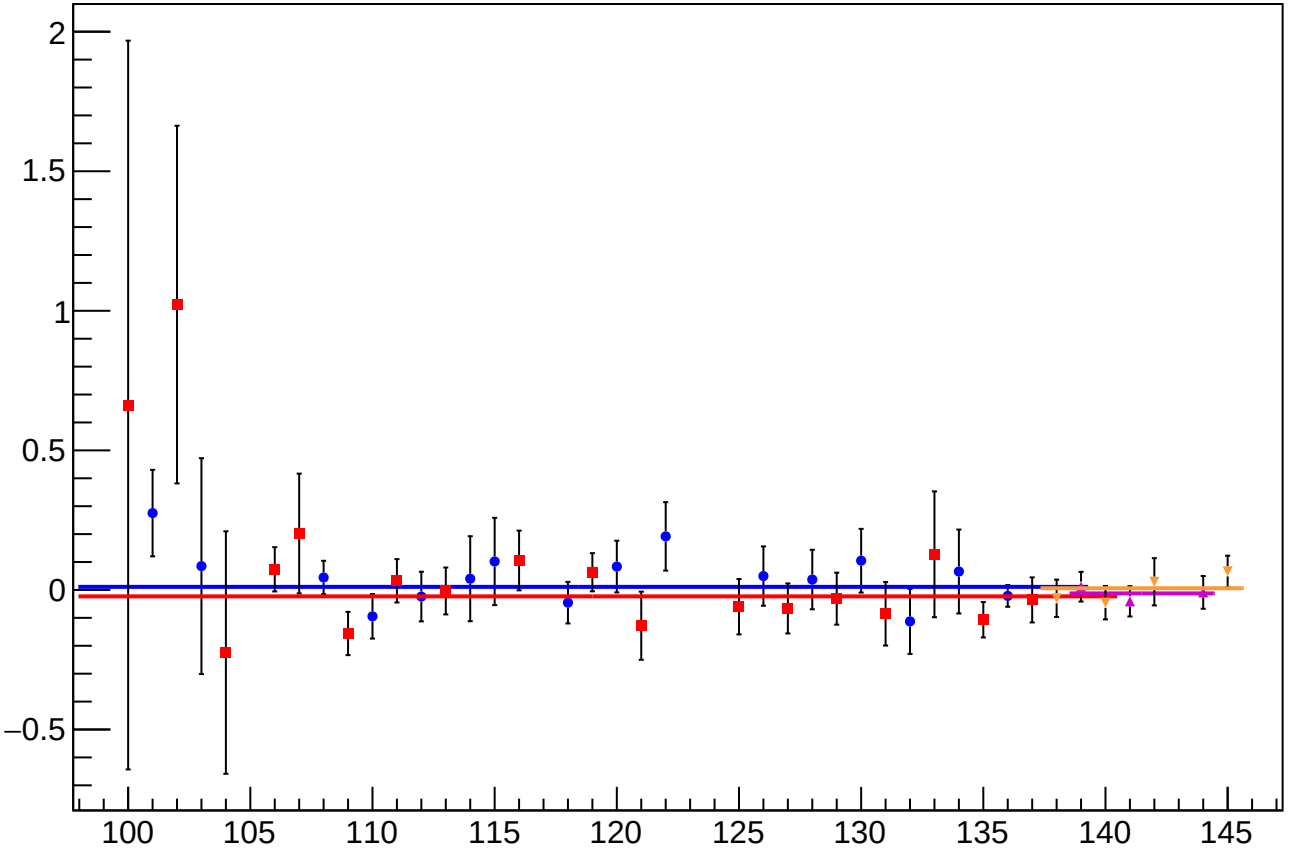
Right: 51.601+/-0.011 $\chi^2$/NDF: 4486238.7/33

In: 49.759+/-0.013 $\chi^2$/NDF:2293347.7/18

Out: 51.922+/-0.013 $\chi^2$/NDF:2244675.2/21

All: 50.796+/-0.009 $\chi^2$/NDF: 4551813.0/40

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: 0.006+/-0.032 $\chi^2$/NDF:2.3/3

Right Out: -0.023+/-0.023 $\chi^2$/NDF: 15.9/17

Left In: -0.012+/-0.032 $\chi^2$/NDF:0.5/2

Left: -0.003+/-0.023 $\chi^2$/NDF: 2.9/6

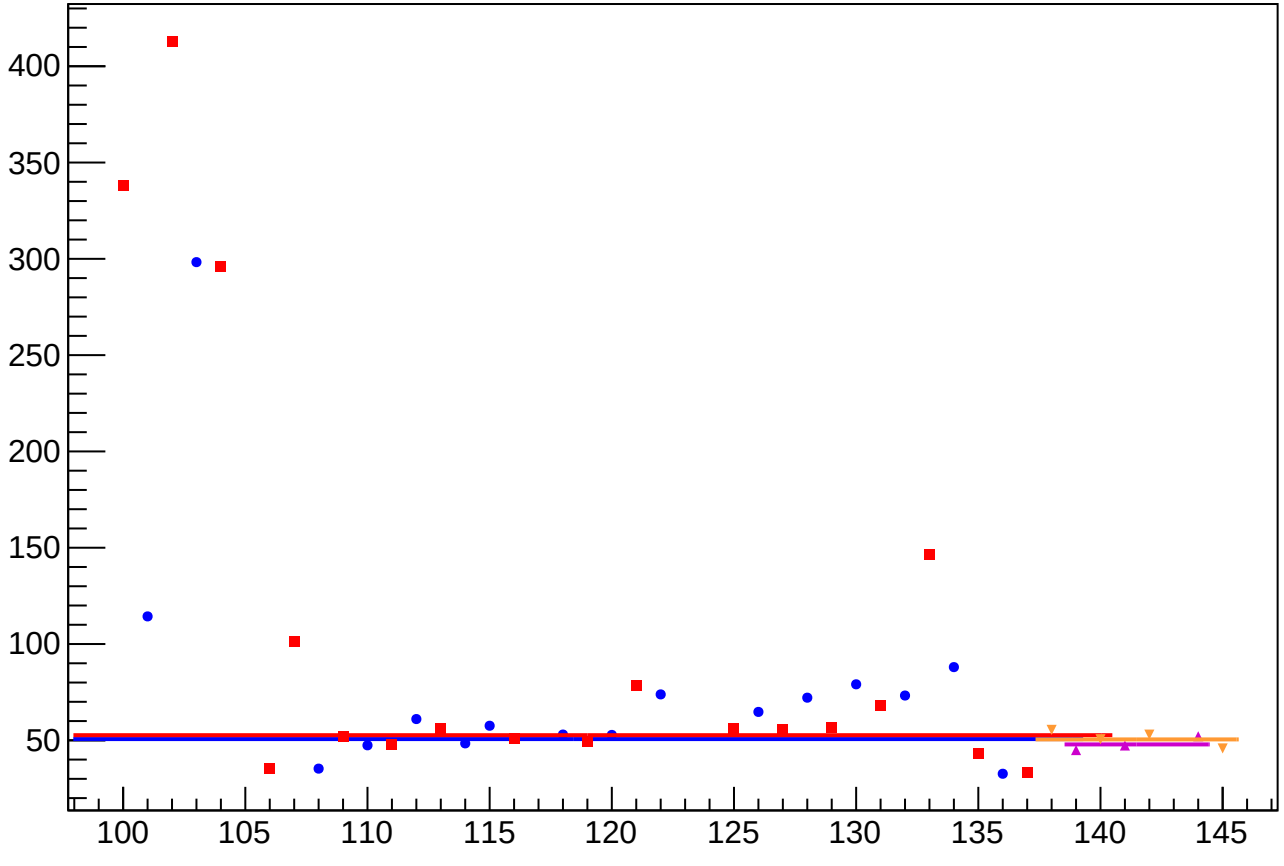
Right: -0.005+/-0.016 $\chi^2$/NDF: 28.8/33

In: 0.004+/-0.018 $\chi^2$/NDF:12.6/18

Out: -0.013+/-0.019 $\chi^2$/NDF:18.8/21

All: -0.004+/-0.013 $\chi^2$/NDF: 31.8/40

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 50.646+/-0.015 $\chi^2$/NDF: 2266348.3/15

Left Out: 50.470+/-0.023 $\chi^2$/NDF:26724.2/3

Right Out: 52.667+/-0.016 $\chi^2$/NDF: 2211822.2/17

Left In: 47.875+/-0.023 $\chi^2$/NDF:16728.2/2

Left: 49.157+/-0.016 $\chi^2$/NDF: 50000.8/6

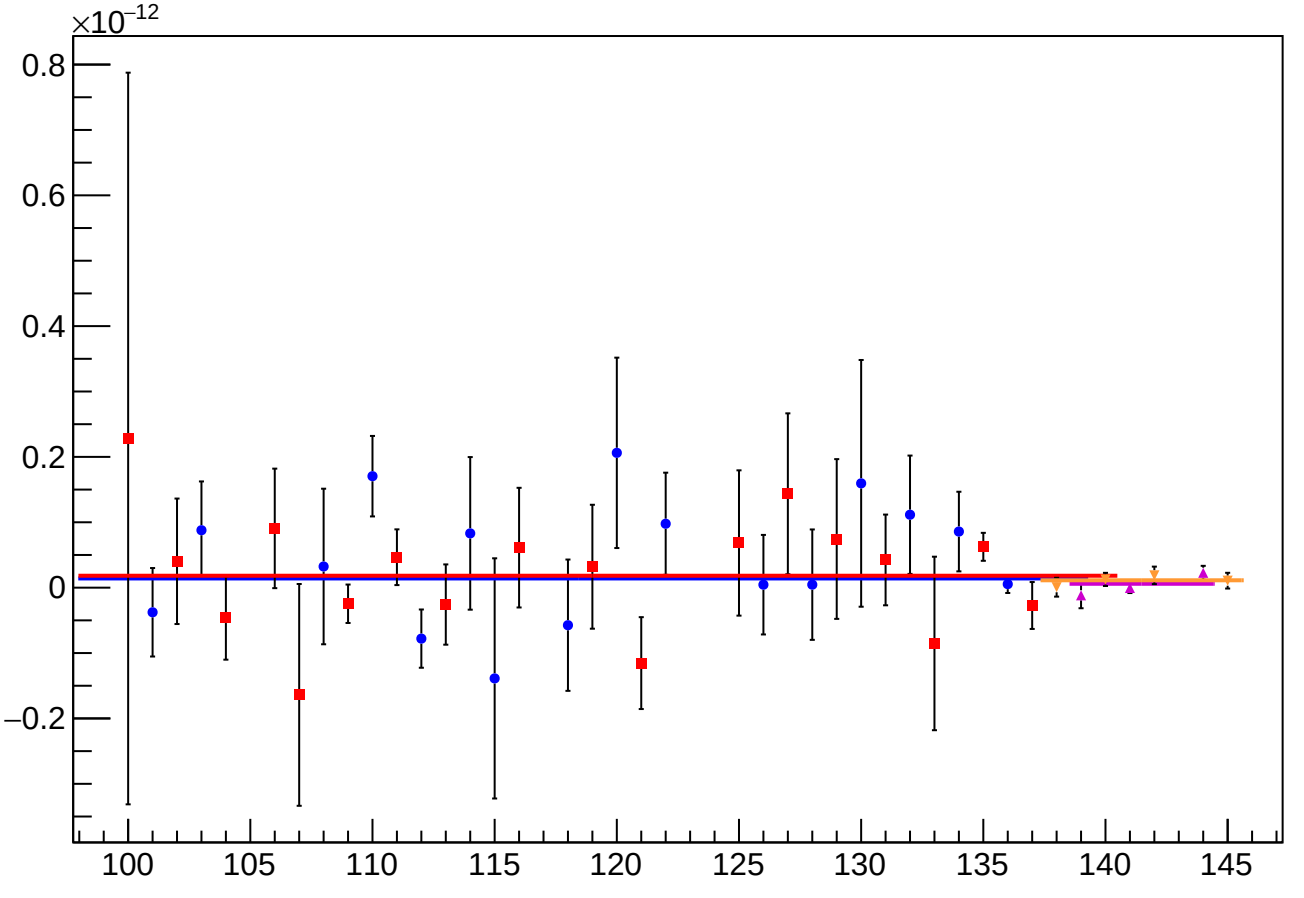
Right: 51.601+/-0.011 $\chi^2$/NDF: 4486238.7/33

In: 49.759+/-0.013 $\chi^2$/NDF:2293347.7/18

Out: 51.922+/-0.013 $\chi^2$/NDF:2244675.2/21

All: 50.796+/-0.009 $\chi^2$/NDF: 4551813.0/40

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.9/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.0/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.9/2

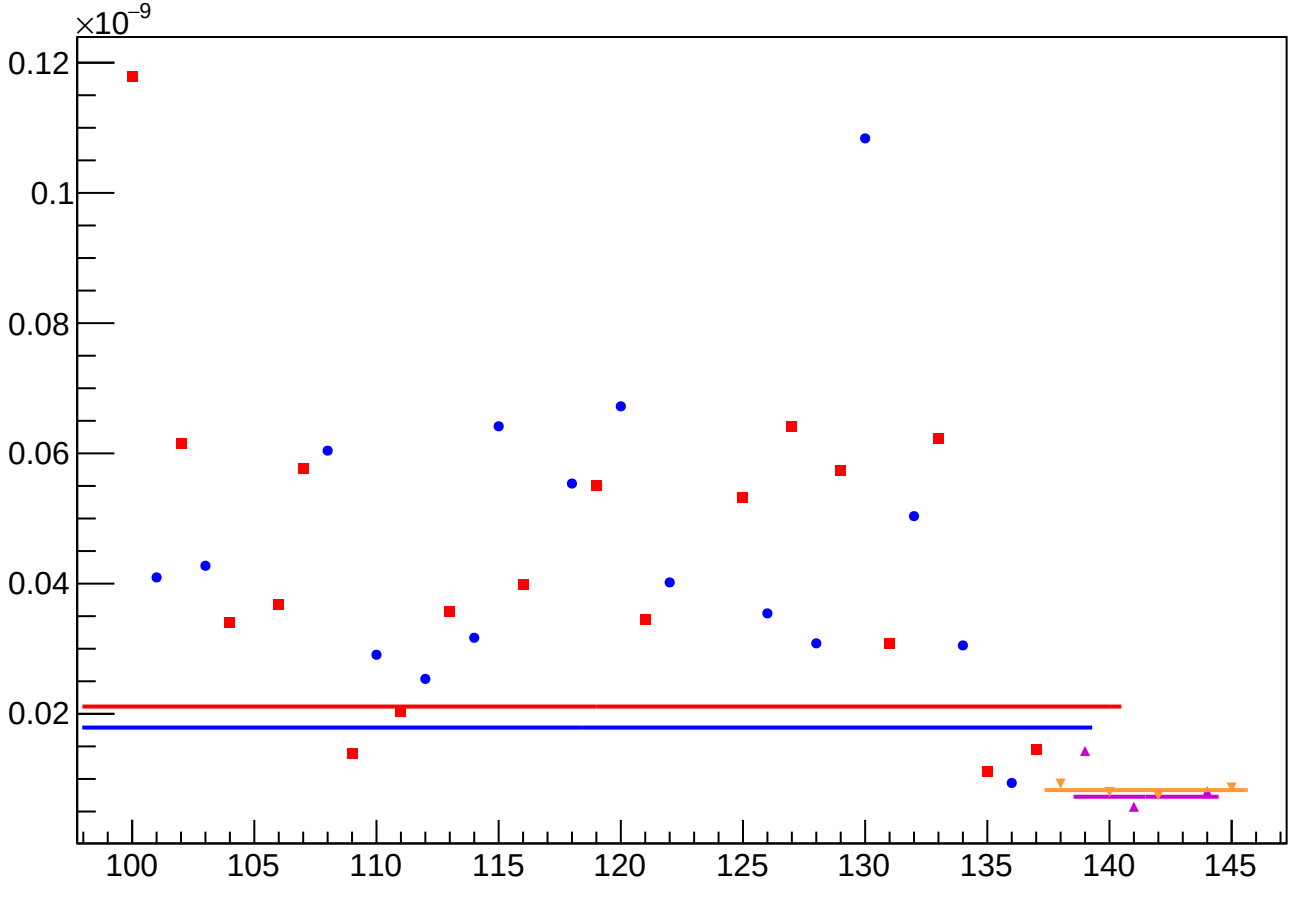
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.2/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.4/33

In: 0.000+/-0.000 $\chi^2$/NDF:24.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:19.1/21

All: 0.000+/-0.000 $\chi^2$/NDF: 44.2/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3398524.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:20874.4/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2621588.2/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:341038.2/2

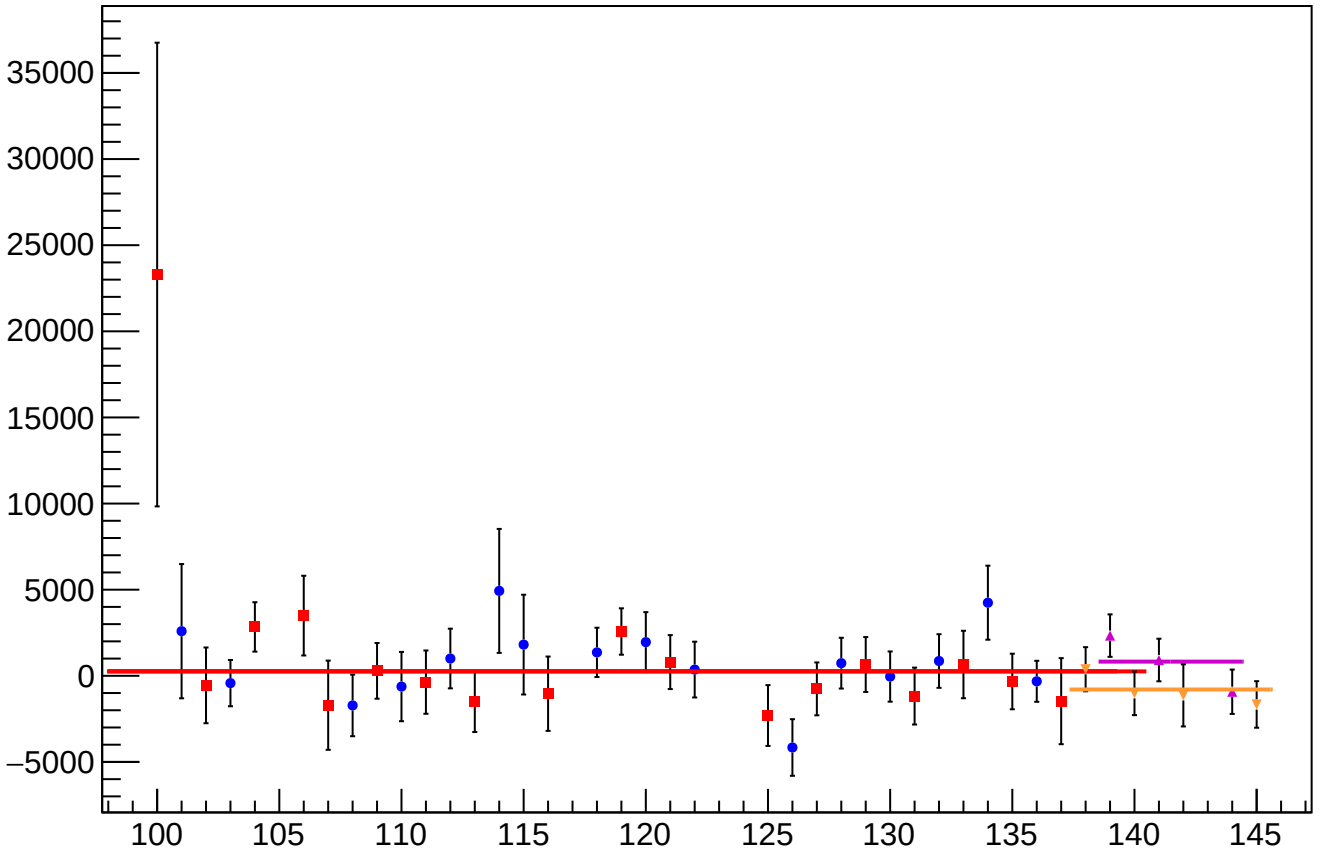
Left: 0.000+/-0.000 $\chi^2$/NDF: 390521.3/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 6093228.6/33

In: 0.000+/-0.000 $\chi^2$/NDF:5112601.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4340318.8/21

All: 0.000+/-0.000 $\chi^2$/NDF: 9496154.5/40




Right In: 260.797+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: -795.714+/-692.123 $\chi^2$/NDF:1.3/3

Right Out: 255.934+/-425.784 $\chi^2$/NDF: 17.4/17

Left In: 823.265+/-722.567 $\chi^2$/NDF:3.4/2

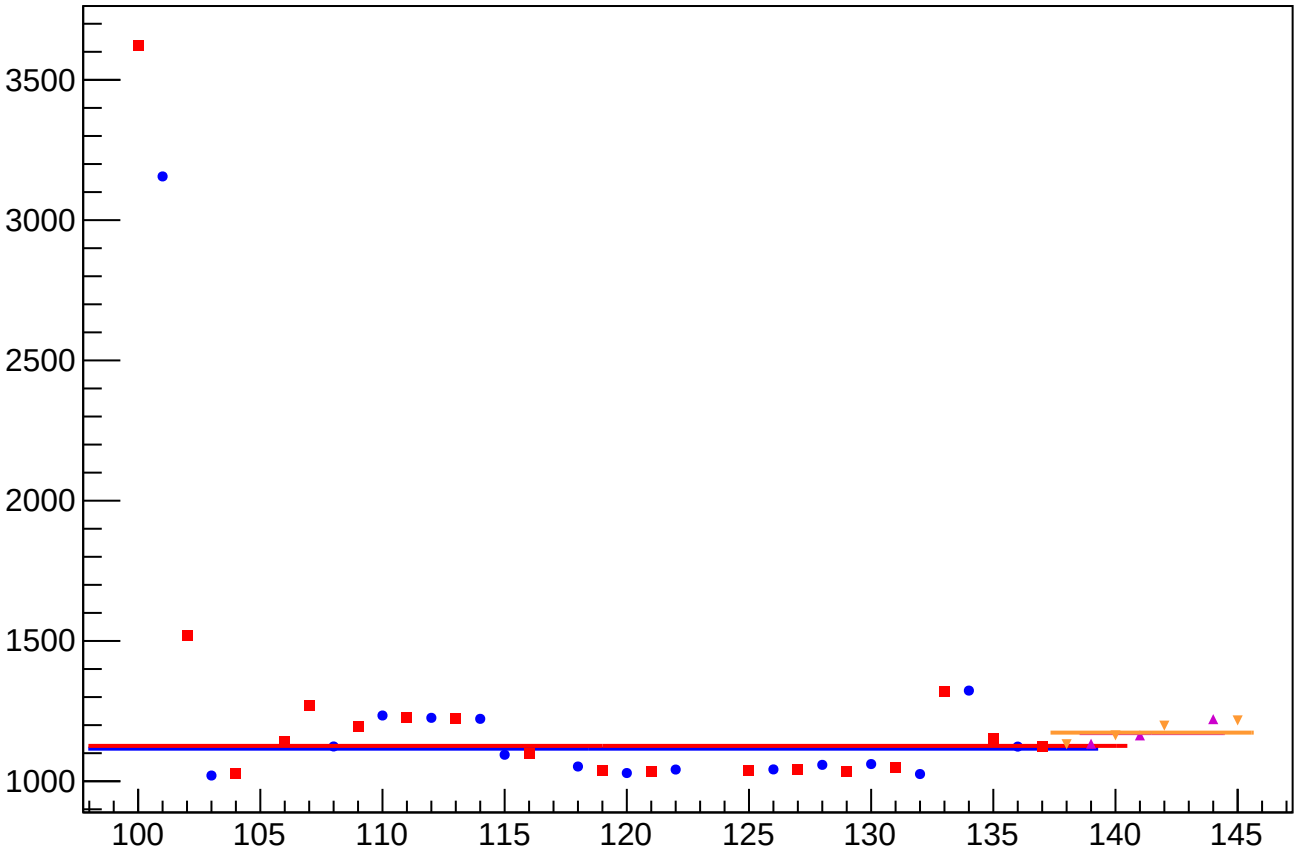
Left: -21.049+/-499.821 $\chi^2$/NDF: 7.3/6

Right: 258.372+/-300.676 $\chi^2$/NDF: 34.3/33

In: 405.197+/-366.111 $\chi^2$/NDF:20.7/18

Out: -32.795+/-362.655 $\chi^2$/NDF:20.4/21

All: 184.124+/-257.649 $\chi^2$/NDF: 41.8/40




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623390.9/15

Left Out: 1173.285+/-0.489 $\chi^2$/NDF:4666.1/3

Right Out: 1126.016+/-0.301 $\chi^2$/NDF: 222106.0/17

Left In: 1171.518+/-0.511 $\chi^2$/NDF:4958.5/2

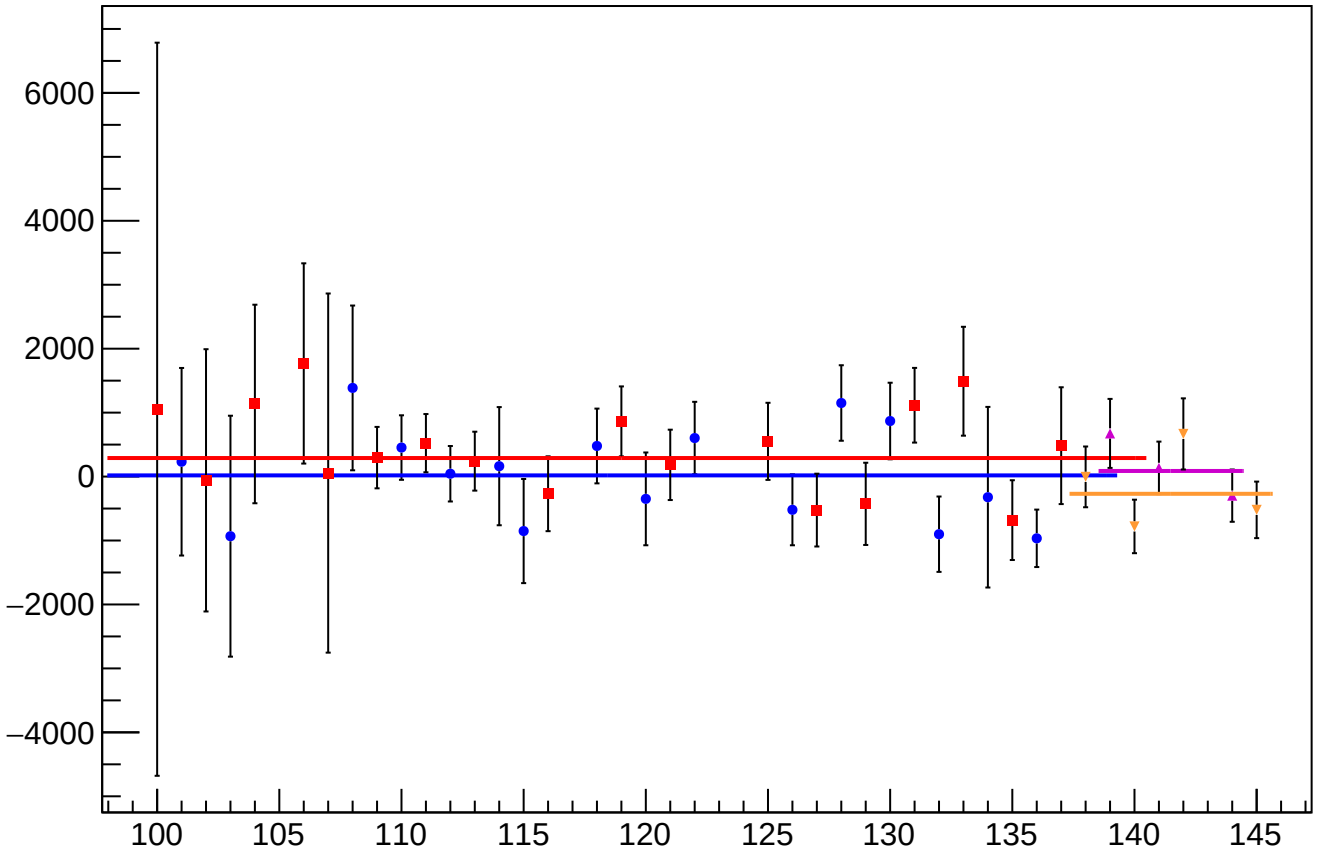
Left: 1172.440+/-0.353 $\chi^2$/NDF: 9630.8/6

Right: 1121.039+/-0.213 $\chi^2$/NDF: 846041.8/33

In: 1130.319+/-0.259 $\chi^2$/NDF:637097.0/18

Out: 1138.993+/-0.256 $\chi^2$/NDF:233539.7/21

All: 1134.697+/-0.182 $\chi^2$/NDF: 871203.4/40




Right In: 18.468+/-161.237 $\chi^2$/NDF: 19.2/15

Left Out: -269.530+/-232.520 $\chi^2$/NDF:5.0/3

Right Out: 289.946+/-156.189 $\chi^2$/NDF: 13.5/17

Left In: 87.614+/-255.171 $\chi^2$/NDF:2.1/2

Left: -107.510+/-171.868 $\chi^2$/NDF: 8.1/6

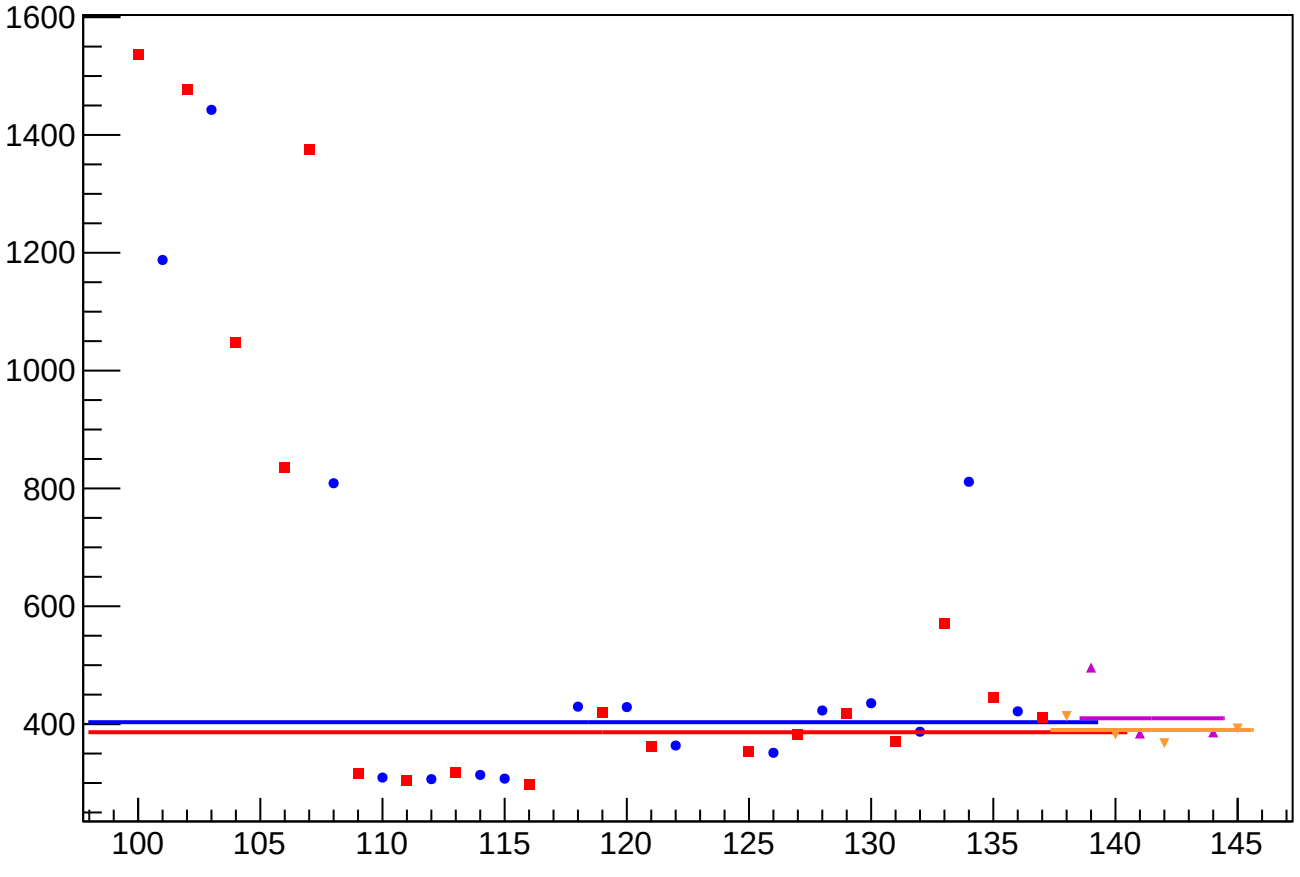
Right: 158.523+/-112.184 $\chi^2$/NDF: 34.1/33

In: 38.198+/-136.306 $\chi^2$/NDF:21.3/18

Out: 115.994+/-129.654 $\chi^2$/NDF:22.4/21

All: 79.041+/-93.943 $\chi^2$/NDF: 43.9/40

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: 390.015+/-0.164 $\chi^2$/NDF:8914.0/3

Right Out: 386.146+/-0.110 $\chi^2$/NDF: 1759113.8/17

Left In: 409.845+/-0.180 $\chi^2$/NDF:65711.8/2

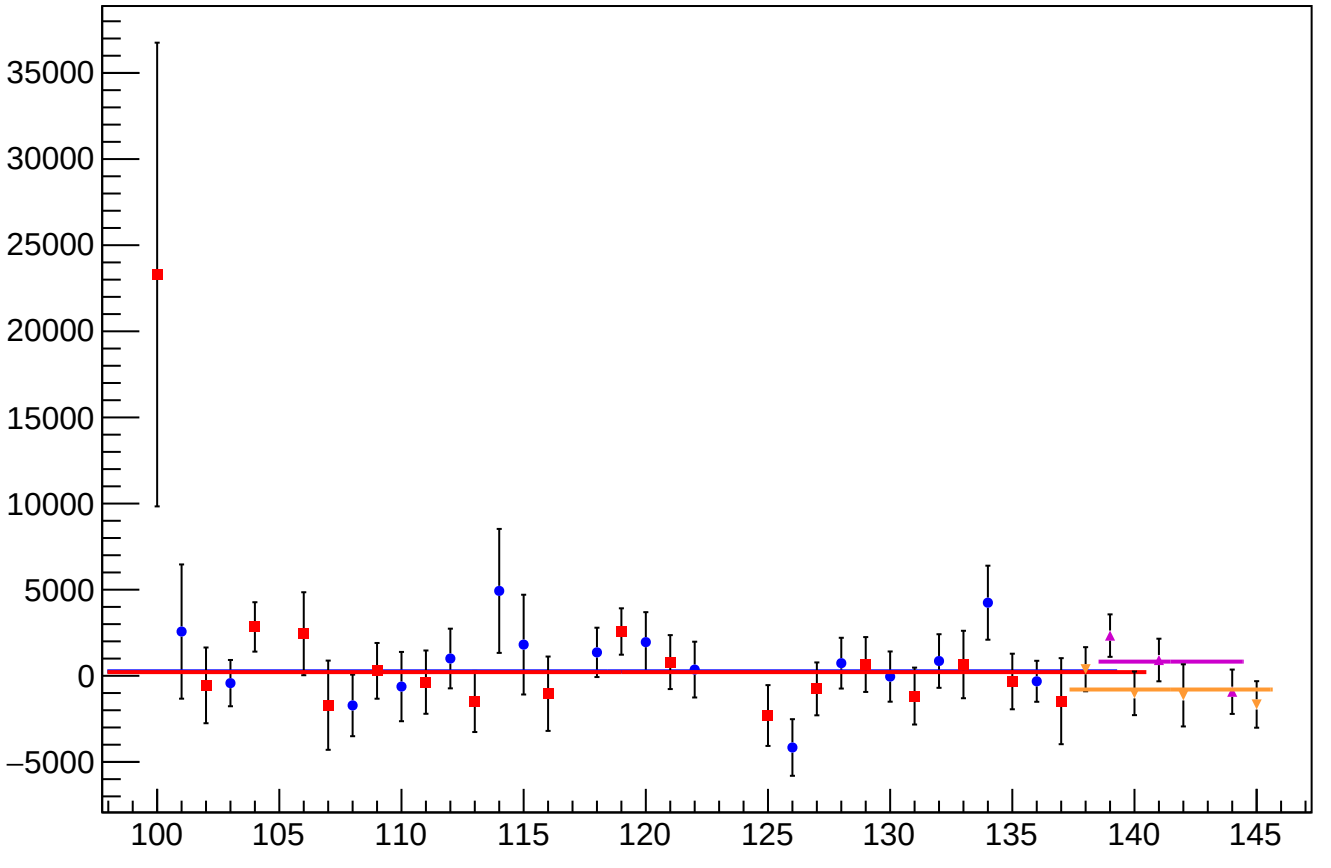
Left: 399.011+/-0.122 $\chi^2$/NDF: 81225.0/6

Right: 394.399+/-0.079 $\chi^2$/NDF: 3579081.1/33

In: 405.092+/-0.096 $\chi^2$/NDF:1875115.3/18

Out: 387.349+/-0.092 $\chi^2$/NDF:1768409.5/21

All: 395.777+/-0.066 $\chi^2$/NDF: 3661316.1/40




Right In: 260.415+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: -795.702+/-692.123 $\chi^2$/NDF:1.3/3

Right Out: 214.501+/-426.342 $\chi^2$/NDF: 16.2/17

Left In: 823.289+/-722.567 $\chi^2$/NDF:3.4/2

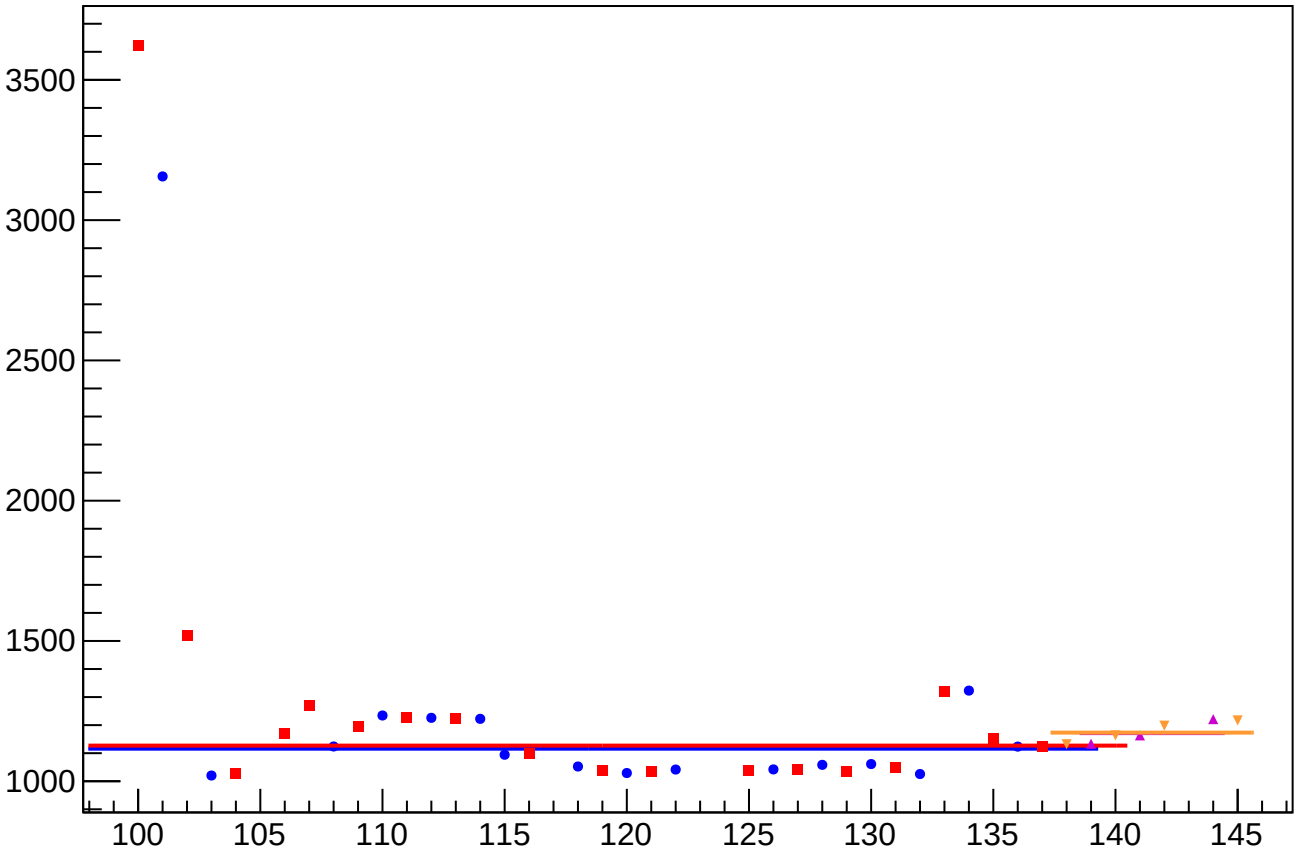
Left: -21.031+/-499.821 $\chi^2$/NDF: 7.3/6

Right: 237.549+/-300.872 $\chi^2$/NDF: 33.2/33

In: 404.919+/-366.111 $\chi^2$/NDF:20.7/18

Out: -63.377+/-362.999 $\chi^2$/NDF:19.1/21

All: 168.773+/-257.772 $\chi^2$/NDF: 40.7/40




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623391.9/15

Left Out: 1173.285+/-0.489 $\chi^2$/NDF:4666.1/3

Right Out: 1126.960+/-0.301 $\chi^2$/NDF: 222740.2/17

Left In: 1171.518+/-0.511 $\chi^2$/NDF:4958.5/2

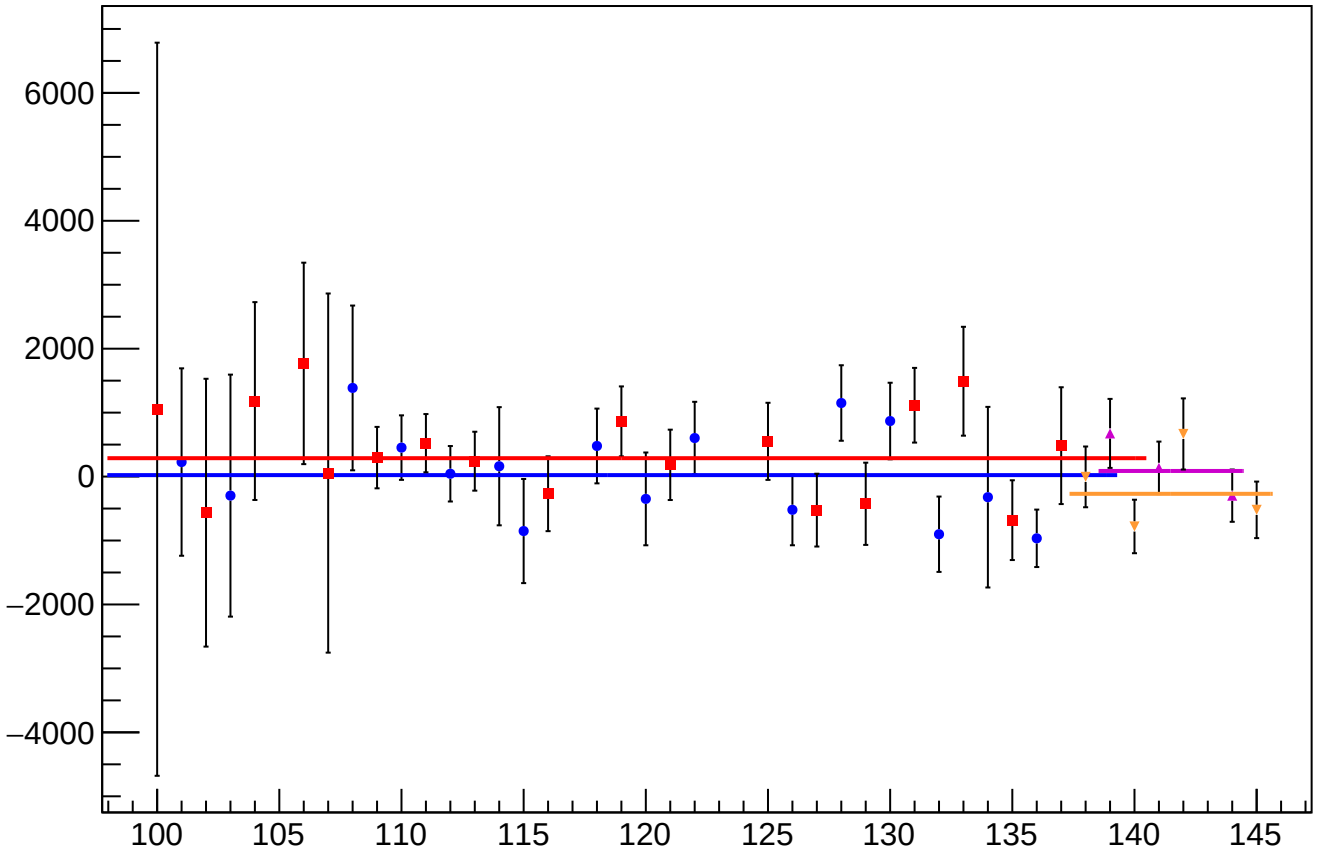
Left: 1172.440+/-0.353 $\chi^2$/NDF: 9630.8/6

Right: 1121.503+/-0.213 $\chi^2$/NDF: 846784.8/33

In: 1130.319+/-0.259 $\chi^2$/NDF:637098.1/18

Out: 1139.703+/-0.257 $\chi^2$/NDF:233901.4/21

All: 1135.051+/-0.182 $\chi^2$/NDF: 871662.1/40




Right In: 22.923+/-161.238 $\chi^2$/NDF: 19.0/15

Left Out: -269.711+/-232.518 $\chi^2$/NDF:5.0/3

Right Out: 287.614+/-156.212 $\chi^2$/NDF: 13.7/17

Left In: 87.706+/-255.170 $\chi^2$/NDF:2.1/2

Left: -107.568+/-171.867 $\chi^2$/NDF: 8.1/6

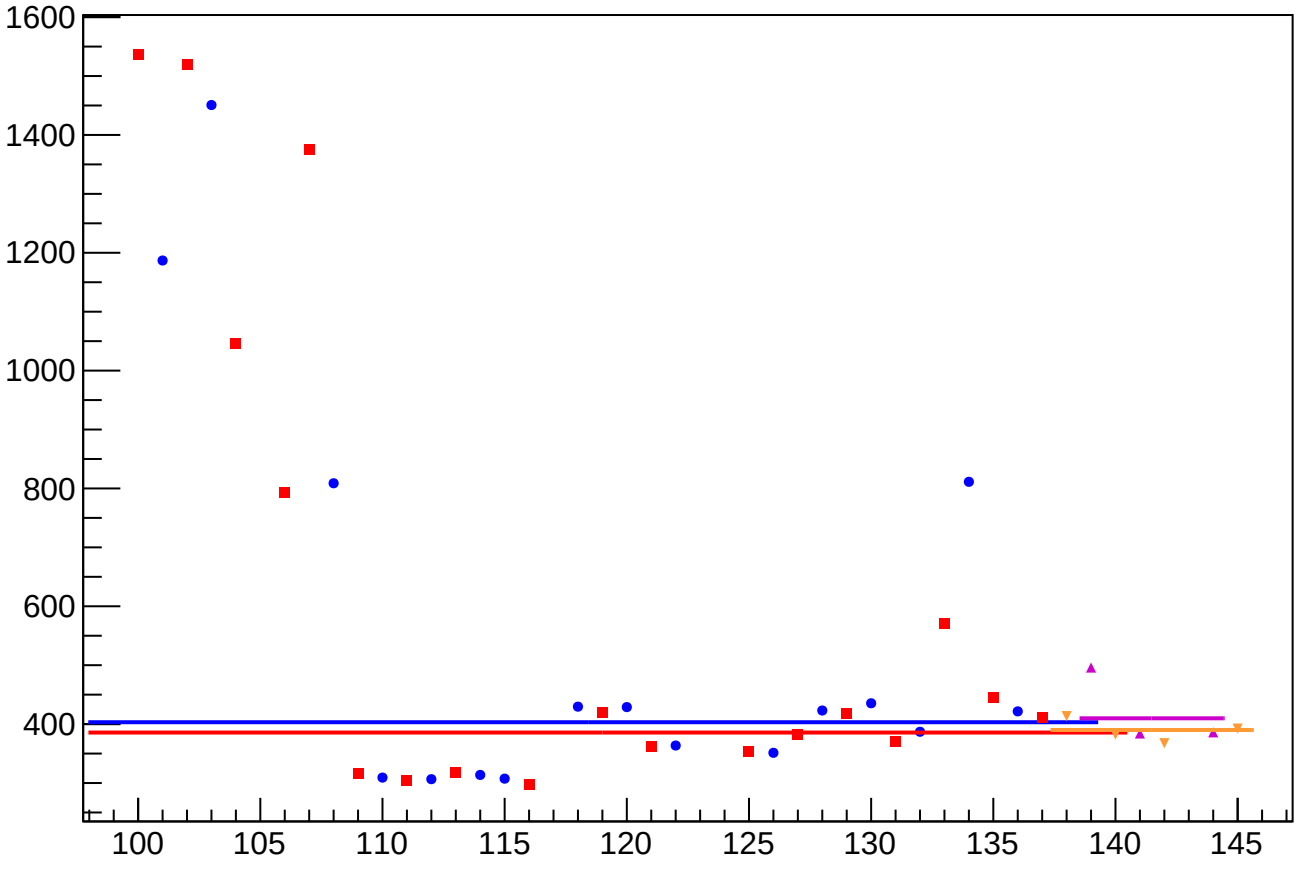
Right: 159.458+/-112.193 $\chi^2$/NDF: 34.0/33

In: 41.408+/-136.306 $\chi^2$/NDF:21.1/18

Out: 114.293+/-129.667 $\chi^2$/NDF:22.6/21

All: 79.669+/-93.948 $\chi^2$/NDF: 43.8/40

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: 390.012+/-0.164 $\chi^2$/NDF:8904.3/3

Right Out: 385.682+/-0.110 $\chi^2$/NDF: 1747152.2/17

Left In: 409.844+/-0.180 $\chi^2$/NDF:65696.3/2

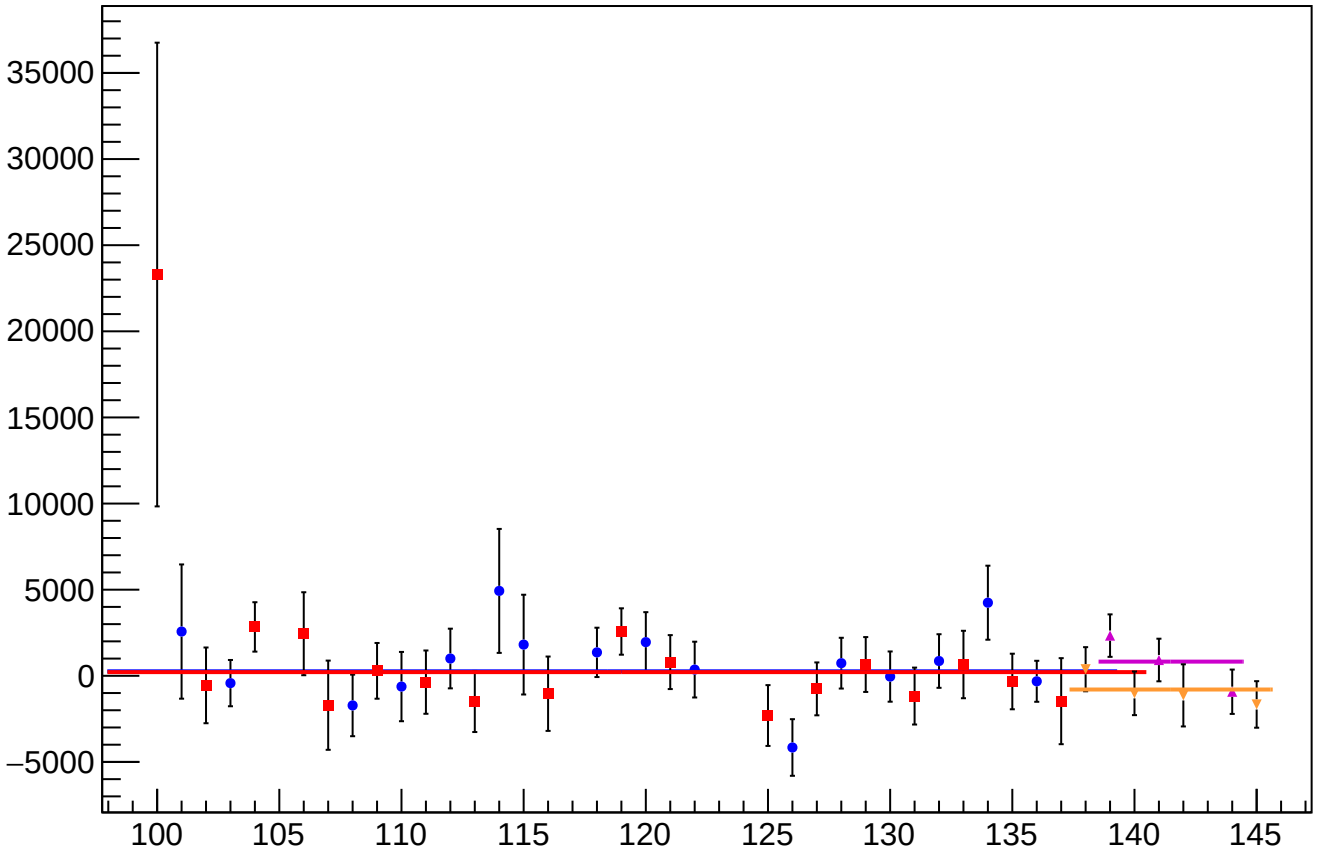
Left: 399.009+/-0.122 $\chi^2$/NDF: 81200.9/6

Right: 394.155+/-0.079 $\chi^2$/NDF: 3571416.8/33

In: 405.083+/-0.096 $\chi^2$/NDF:1878781.5/18

Out: 387.028+/-0.092 $\chi^2$/NDF:1756534.6/21

All: 395.605+/-0.066 $\chi^2$/NDF: 3653736.4/40




Right In: 260.415+/-424.657 $\chi^2$/NDF: 16.9/15

Left Out: -795.702+/-692.123 $\chi^2$/NDF:1.3/3

Right Out: 214.501+/-426.342 $\chi^2$/NDF: 16.2/17

Left In: 823.289+/-722.567 $\chi^2$/NDF:3.4/2

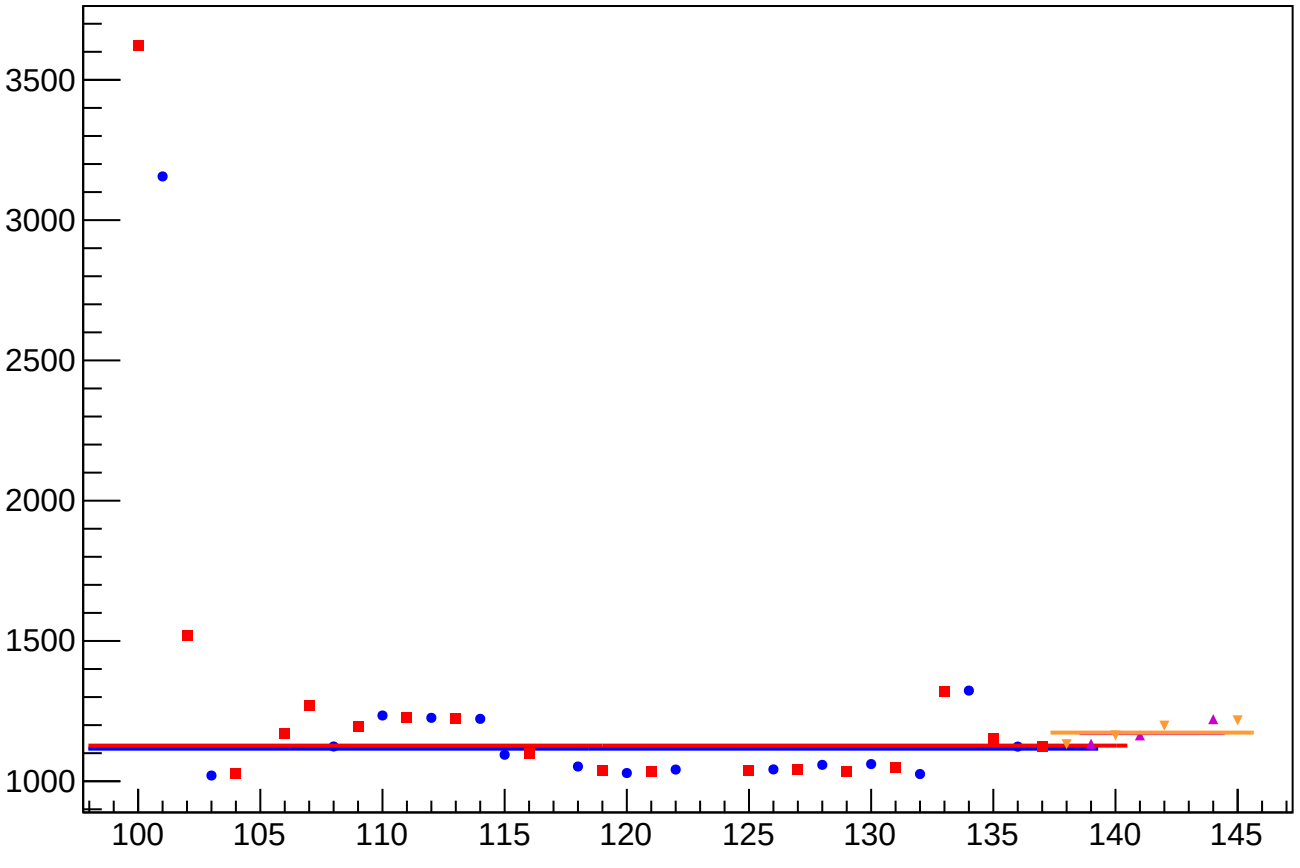
Left: -21.031+/-499.821 $\chi^2$/NDF: 7.3/6

Right: 237.549+/-300.872 $\chi^2$/NDF: 33.2/33

In: 404.919+/-366.111 $\chi^2$/NDF:20.7/18

Out: -63.377+/-362.999 $\chi^2$/NDF:19.1/21

All: 168.773+/-257.772 $\chi^2$/NDF: 40.7/40




Right In: 1116.089+/-0.300 $\chi^2$/NDF: 623391.9/15

Left Out: 1173.285+/-0.489 $\chi^2$/NDF:4666.1/3

Right Out: 1126.960+/-0.301 $\chi^2$/NDF: 222740.2/17

Left In: 1171.518+/-0.511 $\chi^2$/NDF:4958.5/2

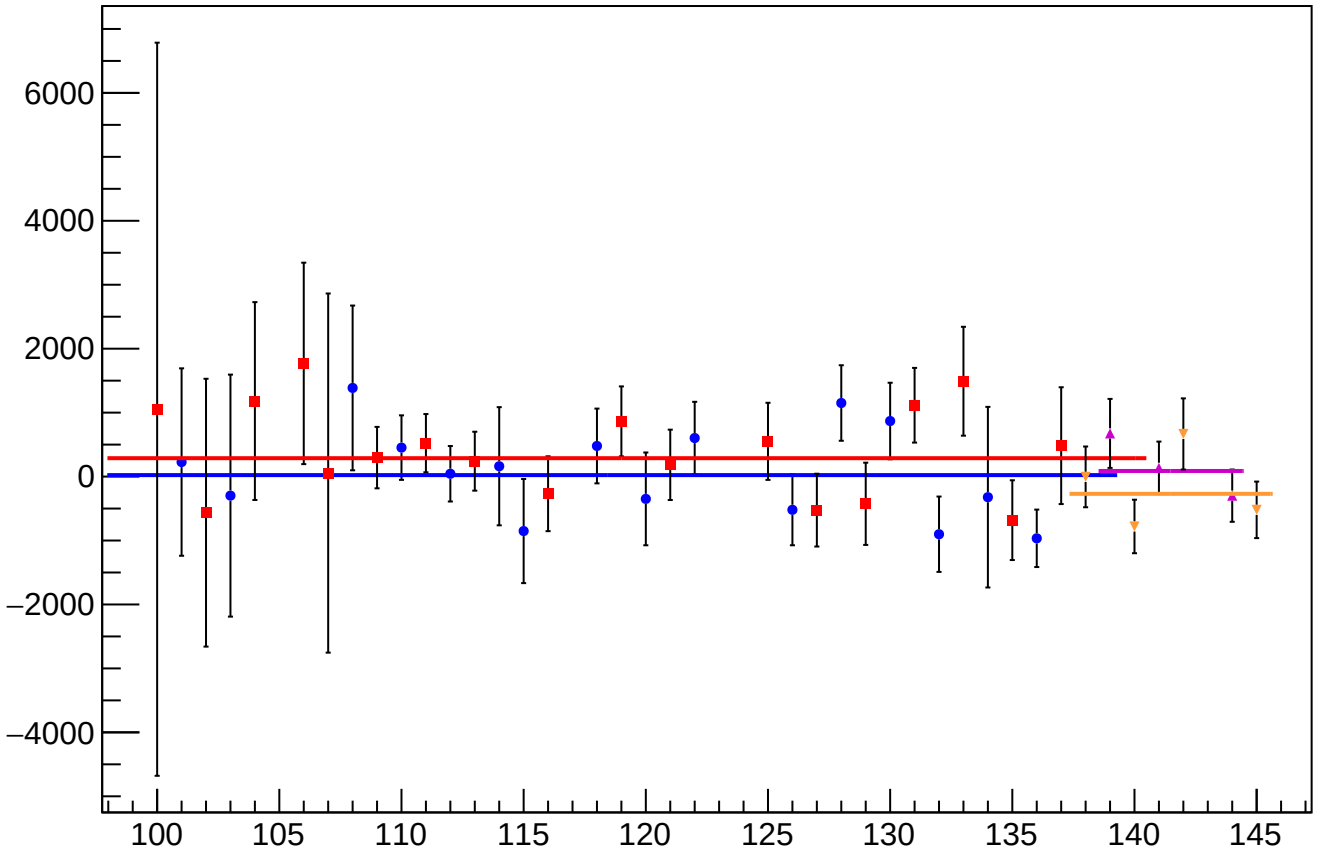
Left: 1172.440+/-0.353 $\chi^2$/NDF: 9630.8/6

Right: 1121.503+/-0.213 $\chi^2$/NDF: 846784.8/33

In: 1130.319+/-0.259 $\chi^2$/NDF:637098.1/18

Out: 1139.703+/-0.257 $\chi^2$/NDF:233901.4/21

All: 1135.051+/-0.182 $\chi^2$/NDF: 871662.1/40




Right In: 22.923+/-161.238 $\chi^2$/NDF: 19.0/15

Left Out: -269.711+/-232.518 $\chi^2$/NDF:5.0/3

Right Out: 287.614+/-156.212 $\chi^2$/NDF: 13.7/17

Left In: 87.706+/-255.170 $\chi^2$/NDF:2.1/2

Left: -107.568+/-171.867 $\chi^2$/NDF: 8.1/6

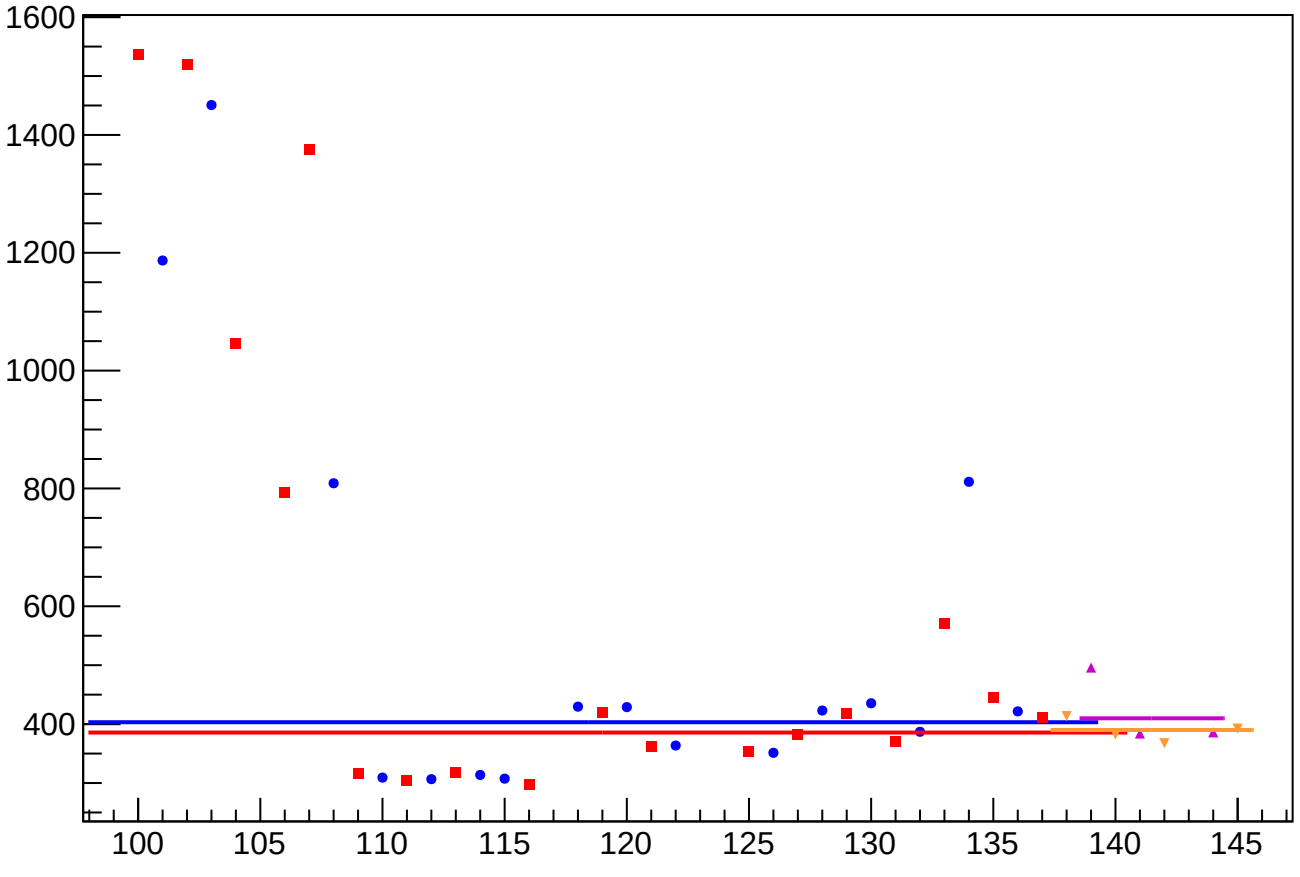
Right: 159.458+/-112.193 $\chi^2$/NDF: 34.0/33

In: 41.408+/-136.306 $\chi^2$/NDF:21.1/18

Out: 114.293+/-129.667 $\chi^2$/NDF:22.6/21

All: 79.669+/-93.948 $\chi^2$/NDF: 43.8/40

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: 390.012+/-0.164 $\chi^2$/NDF:8904.3/3

Right Out: 385.682+/-0.110 $\chi^2$/NDF: 1747152.2/17

Left In: 409.844+/-0.180 $\chi^2$/NDF:65696.3/2

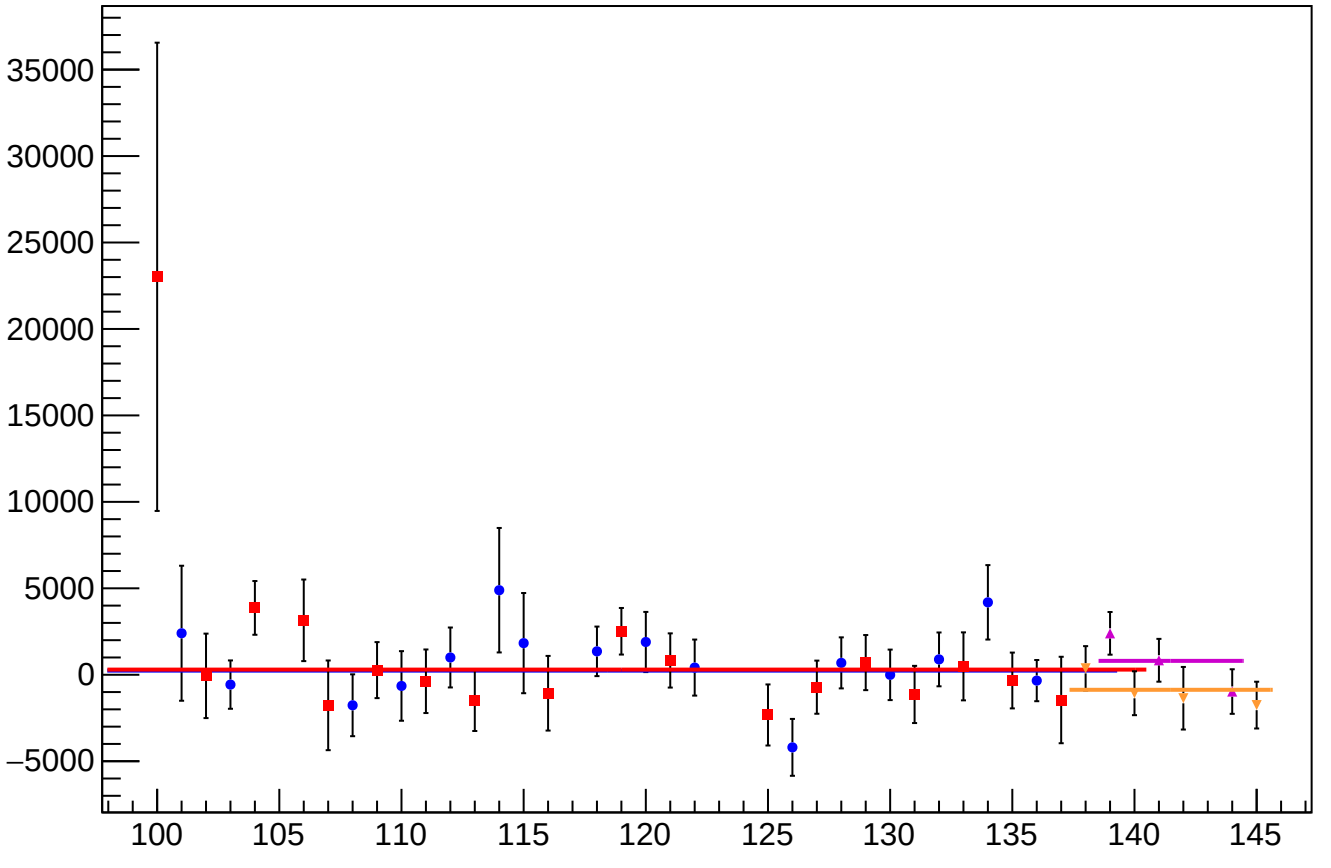
Left: 399.009+/-0.122 $\chi^2$/NDF: 81200.9/6

Right: 394.155+/-0.079 $\chi^2$/NDF: 3571416.8/33

In: 405.083+/-0.096 $\chi^2$/NDF:1878781.5/18

Out: 387.028+/-0.092 $\chi^2$/NDF:1756534.6/21

All: 395.605+/-0.066 $\chi^2$/NDF: 3653736.4/40




Right In: 240.827+/-426.592 $\chi^2$/NDF: 17.0/15

Left Out: -869.538+/-693.144 $\chi^2$/NDF:1.5/3

Right Out: 298.921+/-430.767 $\chi^2$/NDF: 18.7/17

Left In: 803.833+/-723.359 $\chi^2$/NDF:3.6/2

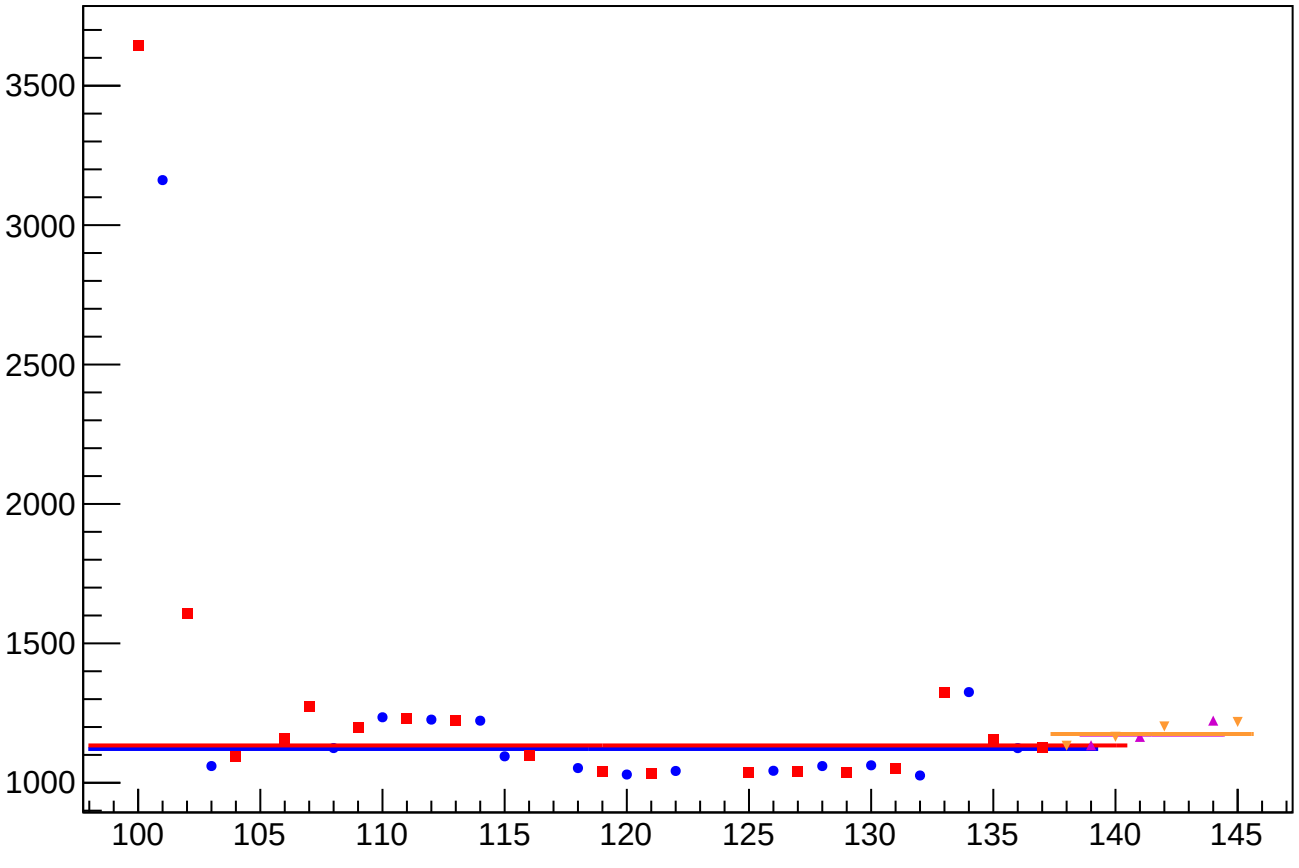
Left: -68.530+/-500.468 $\chi^2$/NDF: 7.8/6

Right: 269.591+/-303.111 $\chi^2$/NDF: 35.6/33

In: 386.108+/-367.453 $\chi^2$/NDF:21.0/18

Out: -26.629+/-365.869 $\chi^2$/NDF:22.2/21

All: 178.848+/-259.267 $\chi^2$/NDF: 43.8/40




Right In: 1121.294+/-0.302 $\chi^2$/NDF: 617028.4/15

Left Out: 1174.977+/-0.490 $\chi^2$/NDF:4773.2/3

Right Out: 1133.929+/-0.305 $\chi^2$/NDF: 227457.1/17

Left In: 1172.779+/-0.511 $\chi^2$/NDF:5022.0/2

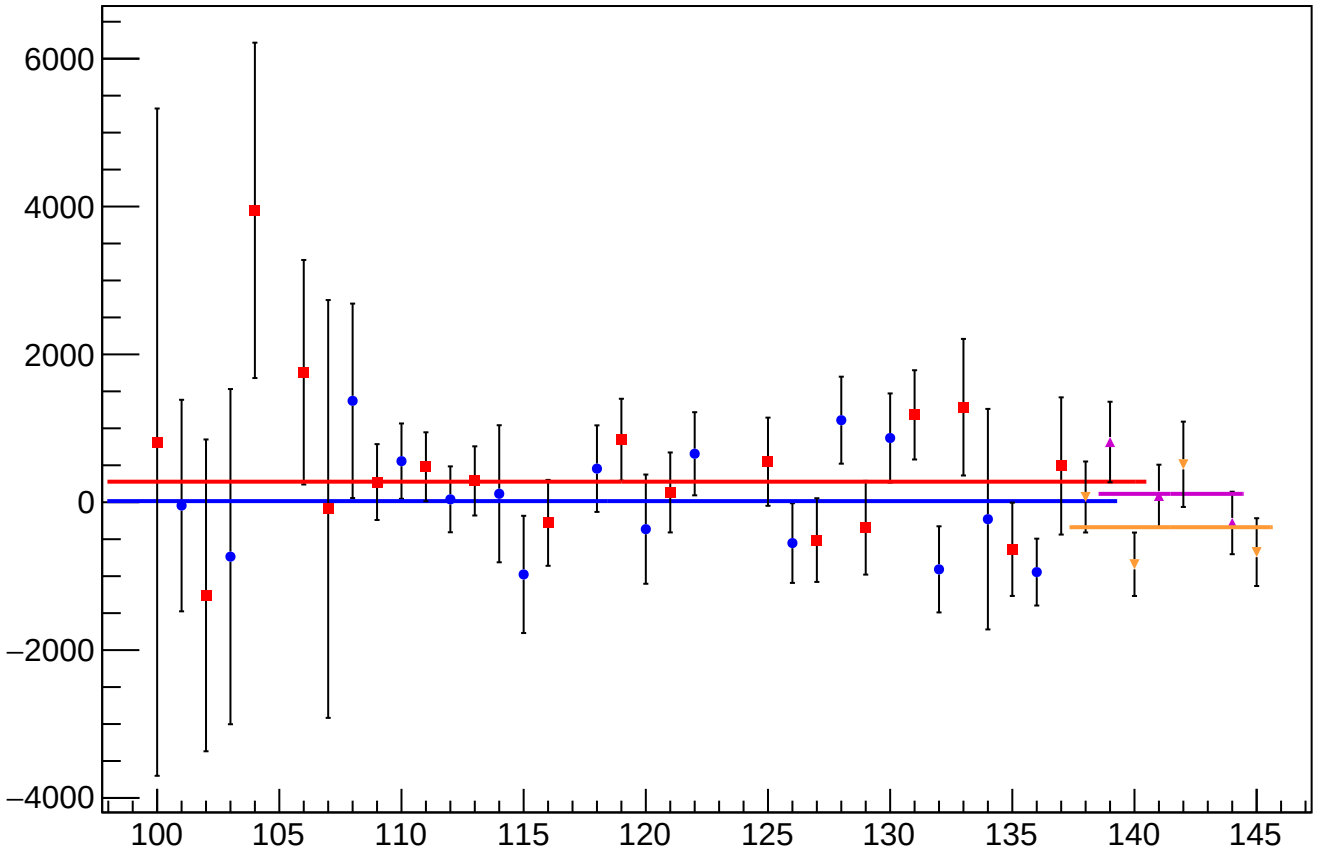
Left: 1173.925+/-0.354 $\chi^2$/NDF: 9804.8/6

Right: 1127.550+/-0.214 $\chi^2$/NDF: 845354.2/33

In: 1134.579+/-0.260 $\chi^2$/NDF:629567.6/18

Out: 1145.366+/-0.259 $\chi^2$/NDF:237289.9/21

All: 1139.996+/-0.183 $\chi^2$/NDF: 867722.9/40




Right In: 15.291+/-161.845 $\chi^2$/NDF: 19.6/15

Left Out: -337.706+/-238.792 $\chi^2$/NDF:4.8/3

Right Out: 278.251+/-158.828 $\chi^2$/NDF: 15.1/17

Left In: 113.554+/-261.923 $\chi^2$/NDF:2.5/2

Left: -132.878+/-176.464 $\chi^2$/NDF: 9.0/6

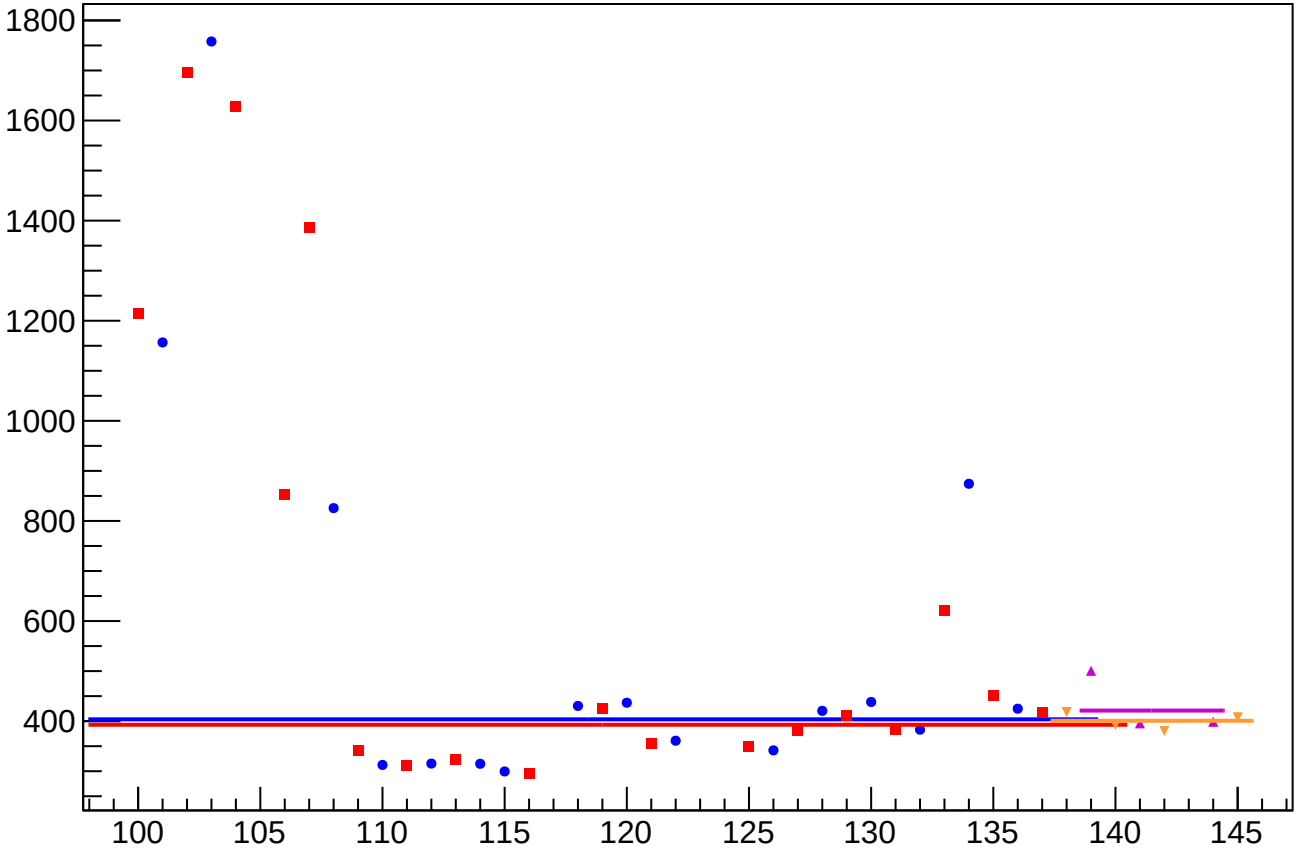
Right: 149.246+/-113.360 $\chi^2$/NDF: 36.0/33

In: 42.443+/-137.681 $\chi^2$/NDF:22.3/18

Out: 89.332+/-132.246 $\chi^2$/NDF:24.5/21

All: 66.831+/-95.376 $\chi^2$/NDF: 46.8/40

asym_us_dd_atlr_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 403.656+/-0.114 $\chi^2$/NDF: 1929597.5/15

Left Out: 400.790+/-0.169 $\chi^2$/NDF:6411.9/3

Right Out: 392.820+/-0.112 $\chi^2$/NDF: 2203456.1/17

Left In: 421.157+/-0.185 $\chi^2$/NDF:55517.9/2

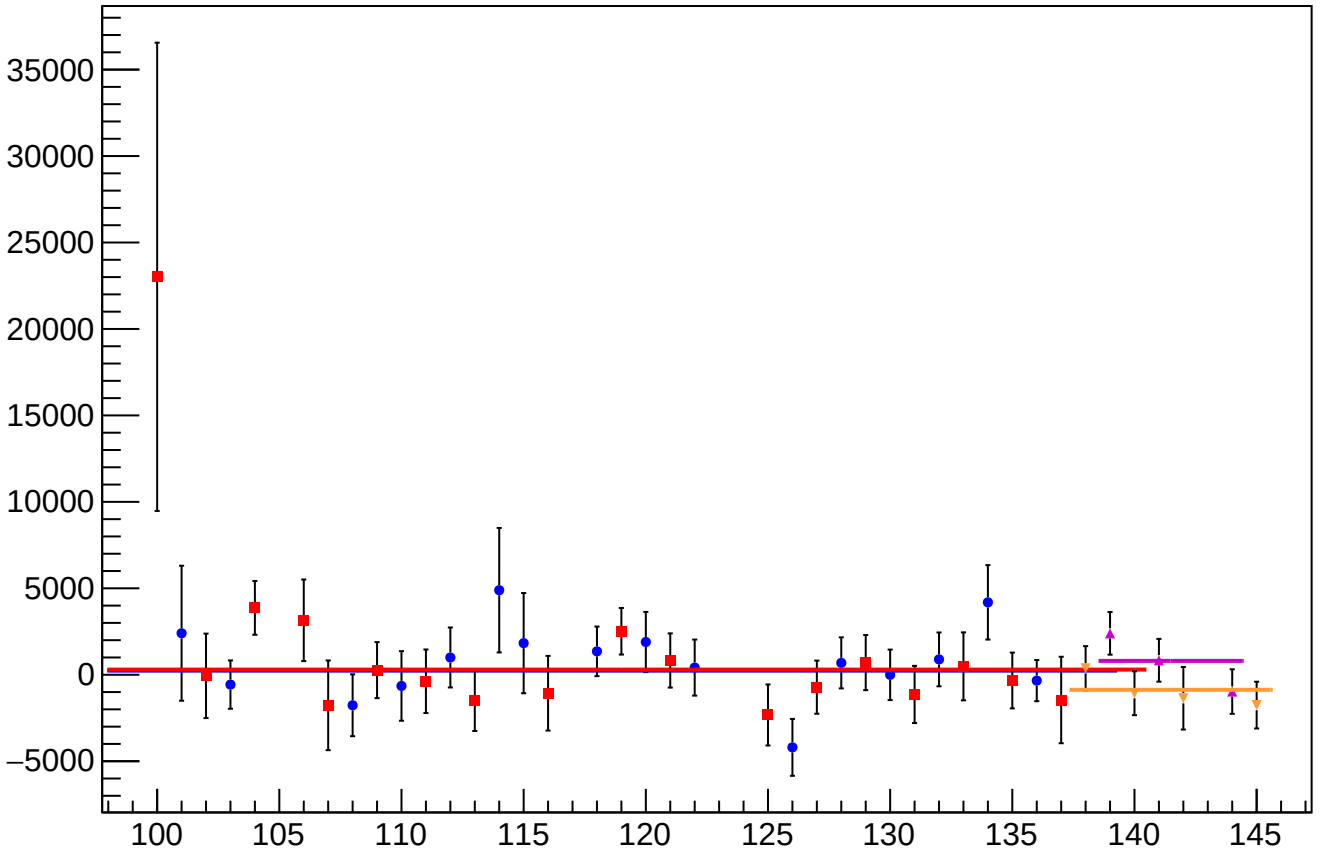
Left: 410.034+/-0.125 $\chi^2$/NDF: 68533.5/6

Right: 398.136+/-0.080 $\chi^2$/NDF: 4137620.1/33

In: 408.491+/-0.097 $\chi^2$/NDF:1991577.0/18

Out: 395.265+/-0.094 $\chi^2$/NDF:2211412.4/21

All: 401.612+/-0.067 $\chi^2$/NDF: 4212589.9/40




Right In: 240.829+/-426.592 $\chi^2$/NDF: 17.0/15

Left Out: -869.545+/-693.144 $\chi^2$/NDF:1.5/3

Right Out: 298.922+/-430.767 $\chi^2$/NDF: 18.7/17

Left In: 803.828+/-723.359 $\chi^2$/NDF:3.6/2

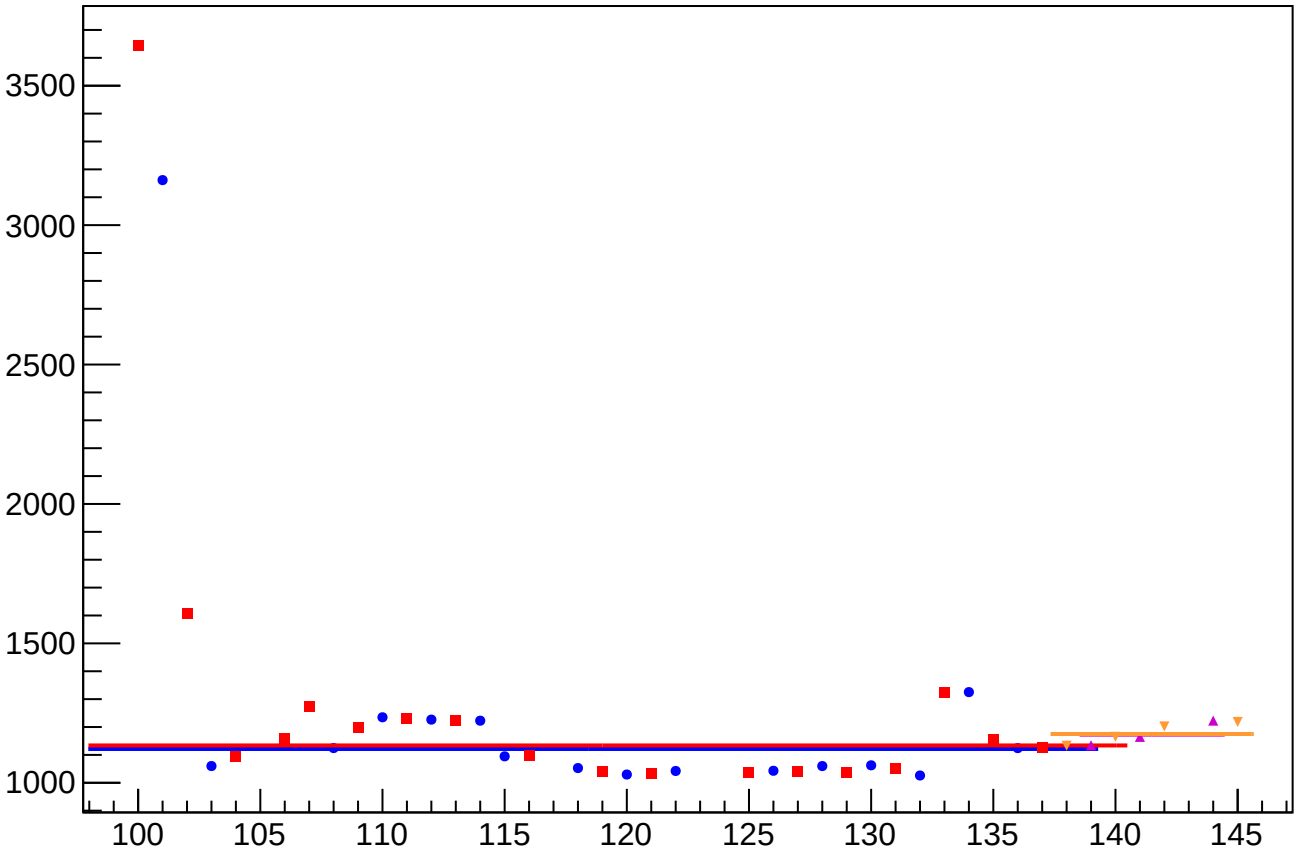
Left: -68.535+/-500.468 $\chi^2$/NDF: 7.8/6

Right: 269.593+/-303.111 $\chi^2$/NDF: 35.6/33

In: 386.108+/-367.453 $\chi^2$/NDF:21.0/18

Out: -26.630+/-365.869 $\chi^2$/NDF:22.2/21

All: 178.848+/-259.267 $\chi^2$/NDF: 43.8/40




Right In: 1121.294+/-0.302 $\chi^2$/NDF: 617028.4/15

Left Out: 1174.977+/-0.490 $\chi^2$/NDF:4773.2/3

Right Out: 1133.929+/-0.305 $\chi^2$/NDF: 227457.1/17

Left In: 1172.779+/-0.511 $\chi^2$/NDF:5022.0/2

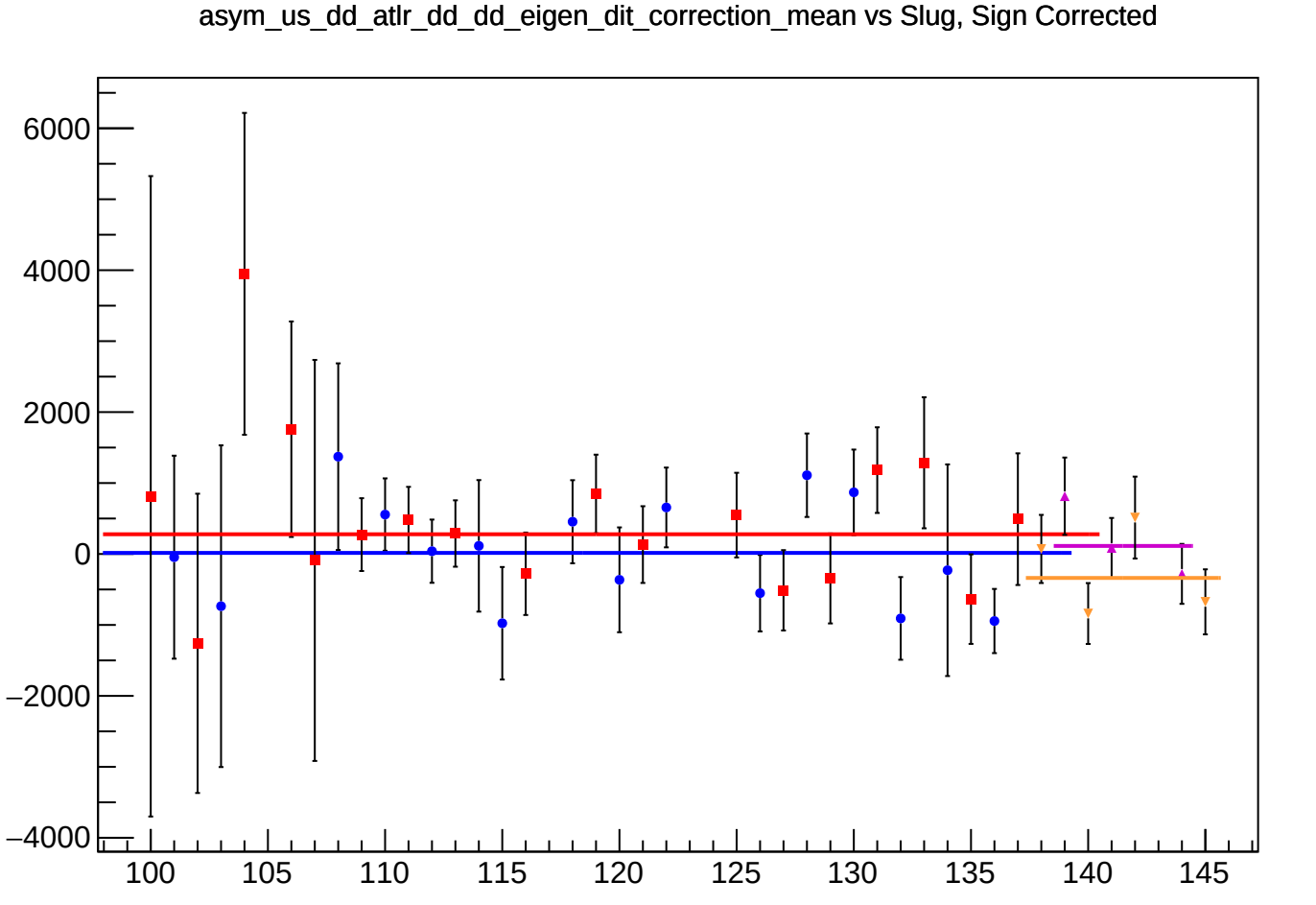
Left: 1173.925+/-0.354 $\chi^2$/NDF: 9804.8/6

Right: 1127.550+/-0.214 $\chi^2$/NDF: 845354.2/33

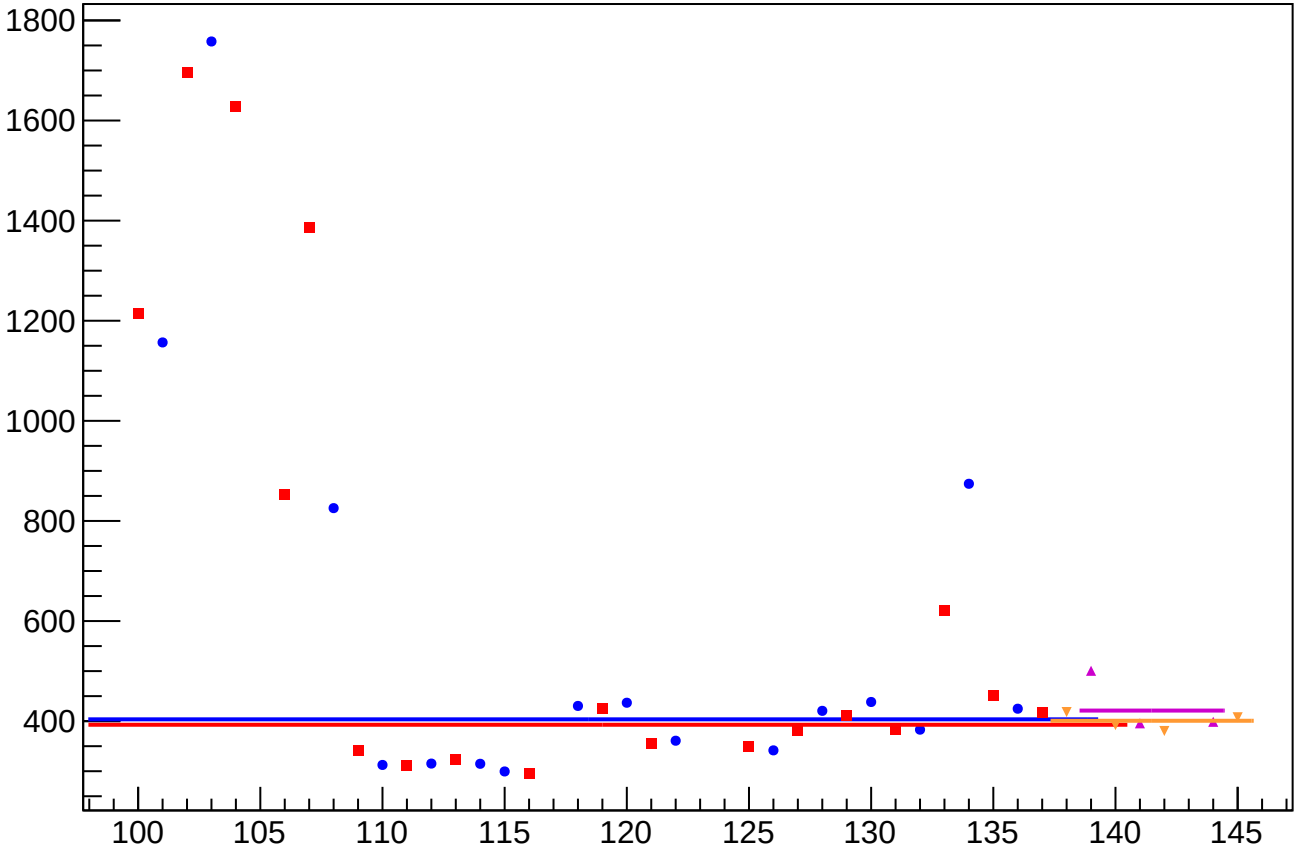
In: 1134.579+/-0.260 $\chi^2$/NDF:629567.6/18

Out: 1145.366+/-0.259 $\chi^2$/NDF:237290.1/21

All: 1139.996+/-0.183 $\chi^2$/NDF: 867723.1/40


asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
6000
4000
2000
0
−2000
−4000
100
105
110
115
120
125
130
135
140
145
Right In: 15.288+/-161.844 χ²/NDF: 19.6/15
Left Out: -337.716+/-238.792 χ²/NDF:4.8/3
Right Out: 278.249+/-158.826 χ²/NDF: 15.1/17
Left In: 113.559+/-261.924 χ²/NDF:2.5/2
Left: -132.882+/-176.464 χ²/NDF: 9.0/6
Right: 149.243+/-113.359 χ²/NDF: 36.0/33
In: 42.441+/-137.681 χ²/NDF:22.3/18
Out: 89.329+/-132.246 χ²/NDF:24.5/21
All: 66.829+/-95.375 χ²/NDF: 46.8/40

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: 400.790+/-0.169 $\chi^2$/NDF:6409.0/3

Right Out: 392.817+/-0.112 $\chi^2$/NDF: 2203462.7/17

Left In: 421.158+/-0.185 $\chi^2$/NDF:55513.4/2

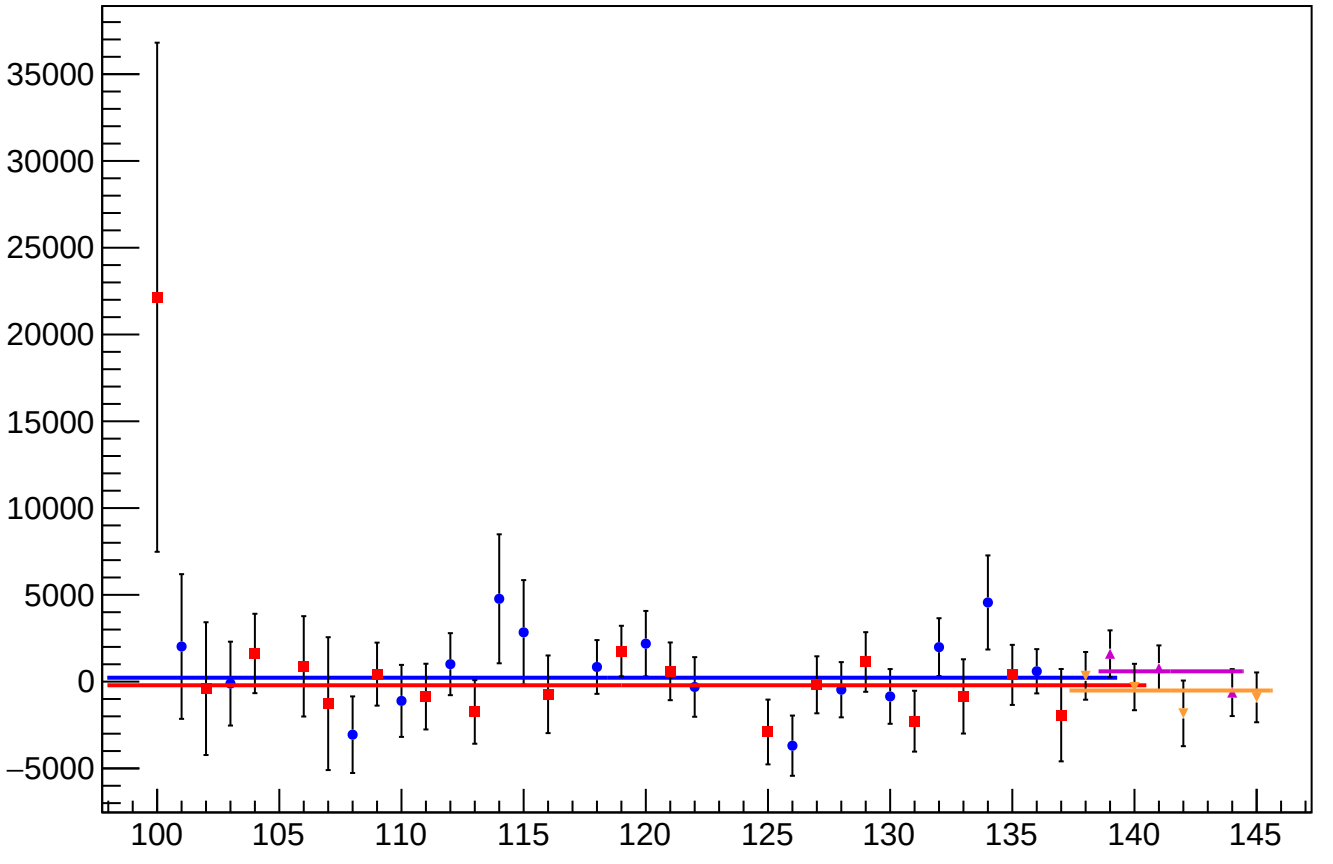
Left: 410.035+/-0.125 $\chi^2$/NDF: 68527.4/6

Right: 398.133+/-0.080 $\chi^2$/NDF: 4137623.7/33

In: 408.490+/-0.097 $\chi^2$/NDF:1991572.9/18

Out: 395.262+/-0.094 $\chi^2$/NDF:2211417.2/21

All: 401.610+/-0.067 $\chi^2$/NDF: 4212591.5/40




Right In: 224.817+/-474.559 $\chi^2$/NDF: 16.1/15

Left Out: -511.554+/-734.440 $\chi^2$/NDF:1.0/3

Right Out: -209.751+/-477.820 $\chi^2$/NDF: 11.0/17

Left In: 593.874+/-770.554 $\chi^2$/NDF:1.4/2

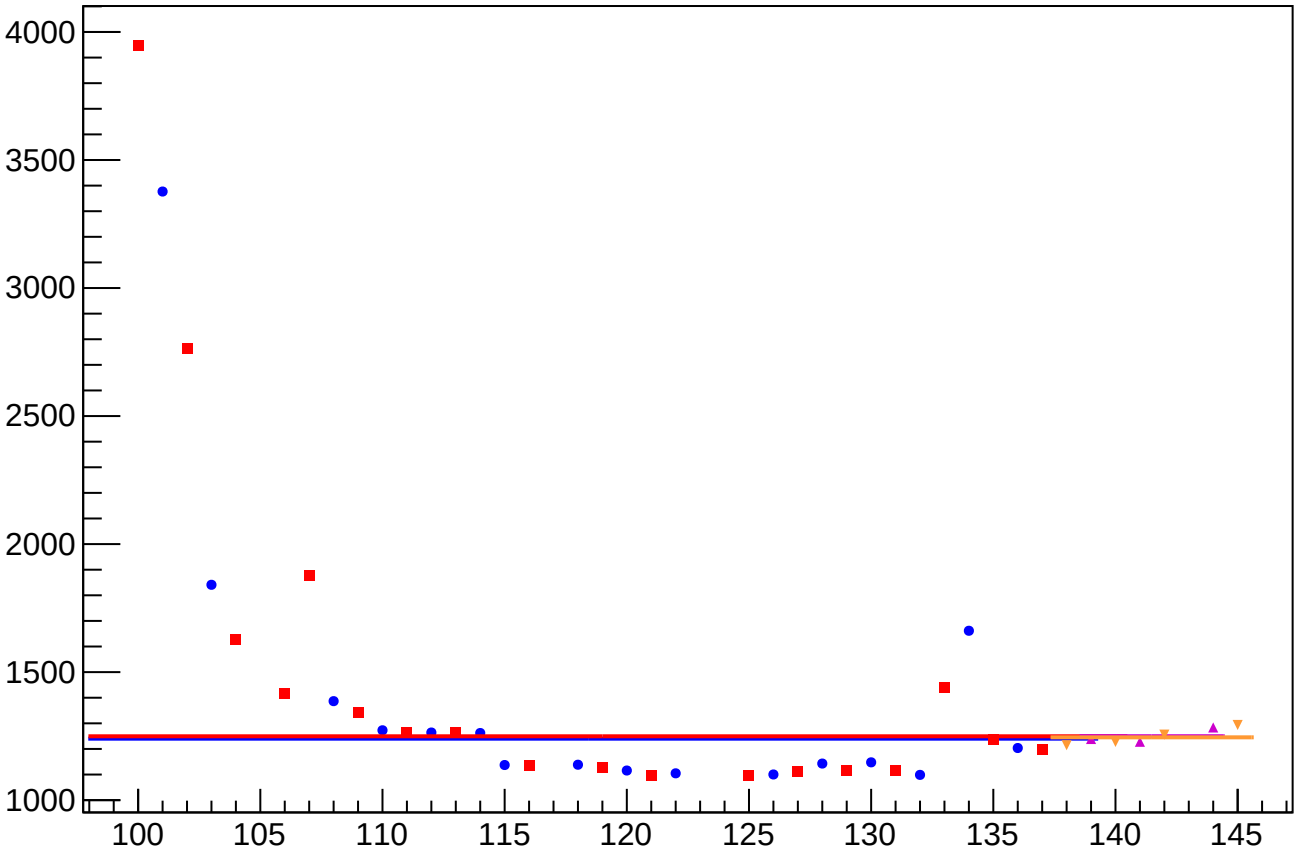
Left: 14.649+/-531.637 $\chi^2$/NDF: 3.4/6

Right: 9.021+/-336.711 $\chi^2$/NDF: 27.5/33

In: 326.304+/-404.075 $\chi^2$/NDF:17.7/18

Out: -299.505+/-400.517 $\chi^2$/NDF:12.0/21

All: 10.633+/-284.458 $\chi^2$/NDF: 30.9/40




Right In: 1240.140+/-0.336 $\chi^2$/NDF: 782679.7/15

Left Out: 1245.336+/-0.519 $\chi^2$/NDF:3693.8/3

Right Out: 1249.410+/-0.338 $\chi^2$/NDF: 606099.2/17

Left In: 1249.701+/-0.545 $\chi^2$/NDF:1955.4/2

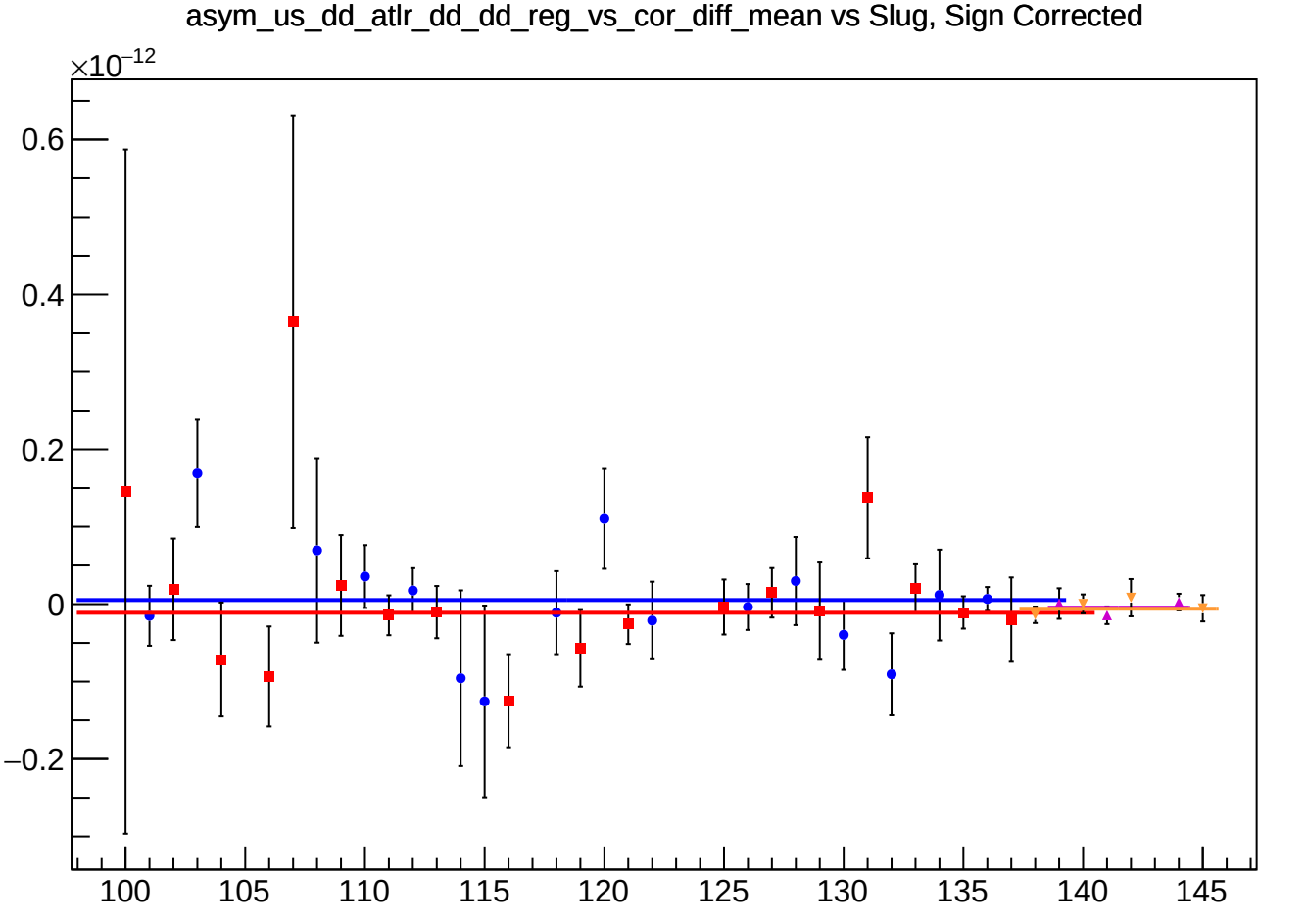
Left: 1247.414+/-0.376 $\chi^2$/NDF: 5682.8/6

Right: 1244.743+/-0.238 $\chi^2$/NDF: 1389157.9/33

In: 1242.769+/-0.286 $\chi^2$/NDF:784858.4/18

Out: 1248.199+/-0.283 $\chi^2$/NDF:609836.2/21

All: 1245.508+/-0.201 $\chi^2$/NDF: 1394876.8/40




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.2/3

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

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.3/2

Left: -0.000+/-0.000 $\chi^2$/NDF: 2.4/6

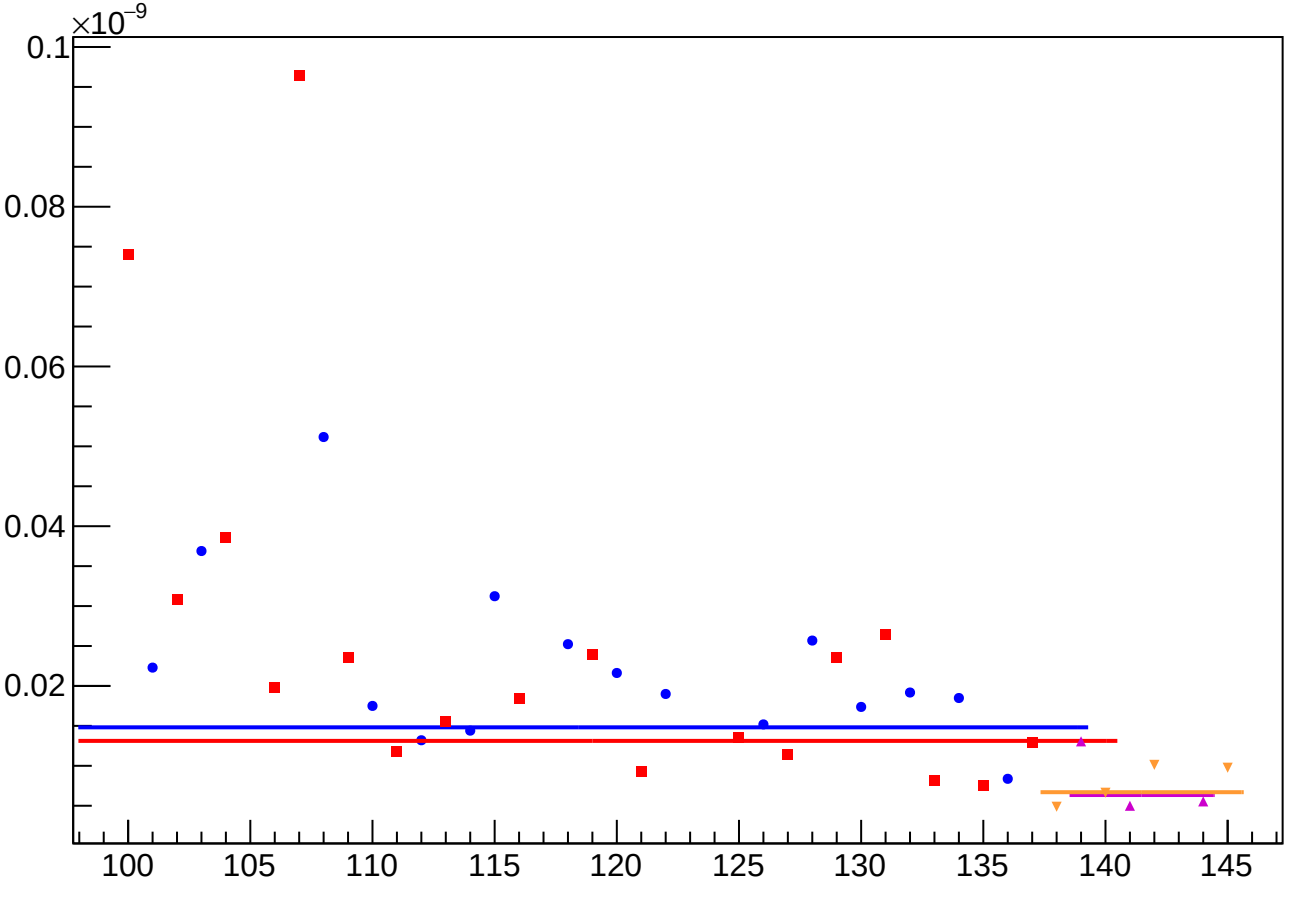
Right: -0.000+/-0.000 $\chi^2$/NDF: 32.9/33

In: -0.000+/-0.000 $\chi^2$/NDF:18.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:16.4/21

All: -0.000+/-0.000 $\chi^2$/NDF: 35.4/40

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1081472.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:164476.9/3

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1181949.6/17

Left In: 0.000+/-0.000 $\chi^2$/NDF:272346.4/2

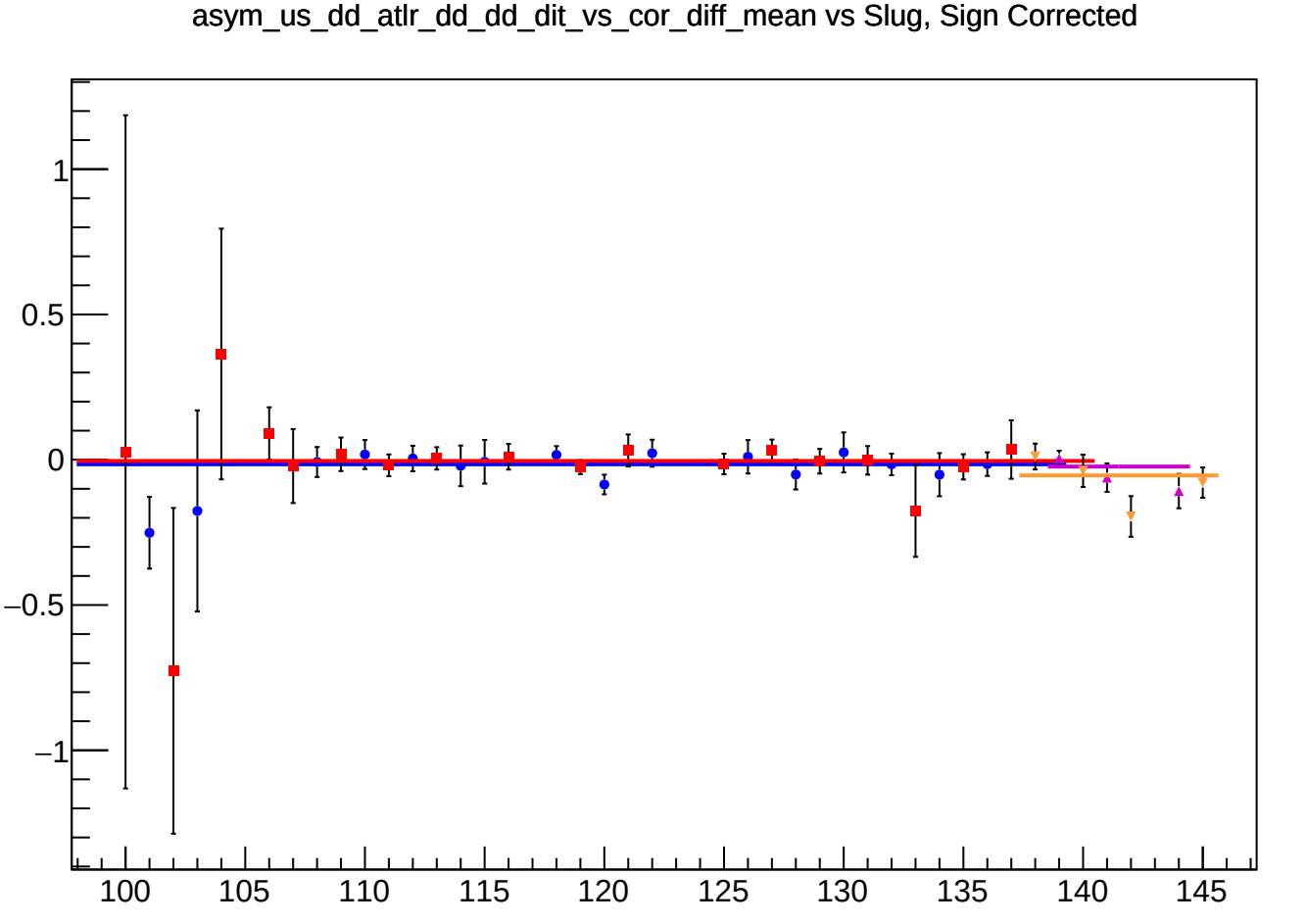
Left: 0.000+/-0.000 $\chi^2$/NDF: 439310.7/6

Right: 0.000+/-0.000 $\chi^2$/NDF: 2295265.5/33

In: 0.000+/-0.000 $\chi^2$/NDF:2339318.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:1953559.8/21

All: 0.000+/-0.000 $\chi^2$/NDF: 4298650.8/40




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: -0.054+/-0.027 $\chi^2$/NDF:6.5/3

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.024+/-0.022 $\chi^2$/NDF:3.8/2

Left: -0.036+/-0.017 $\chi^2$/NDF: 11.0/6

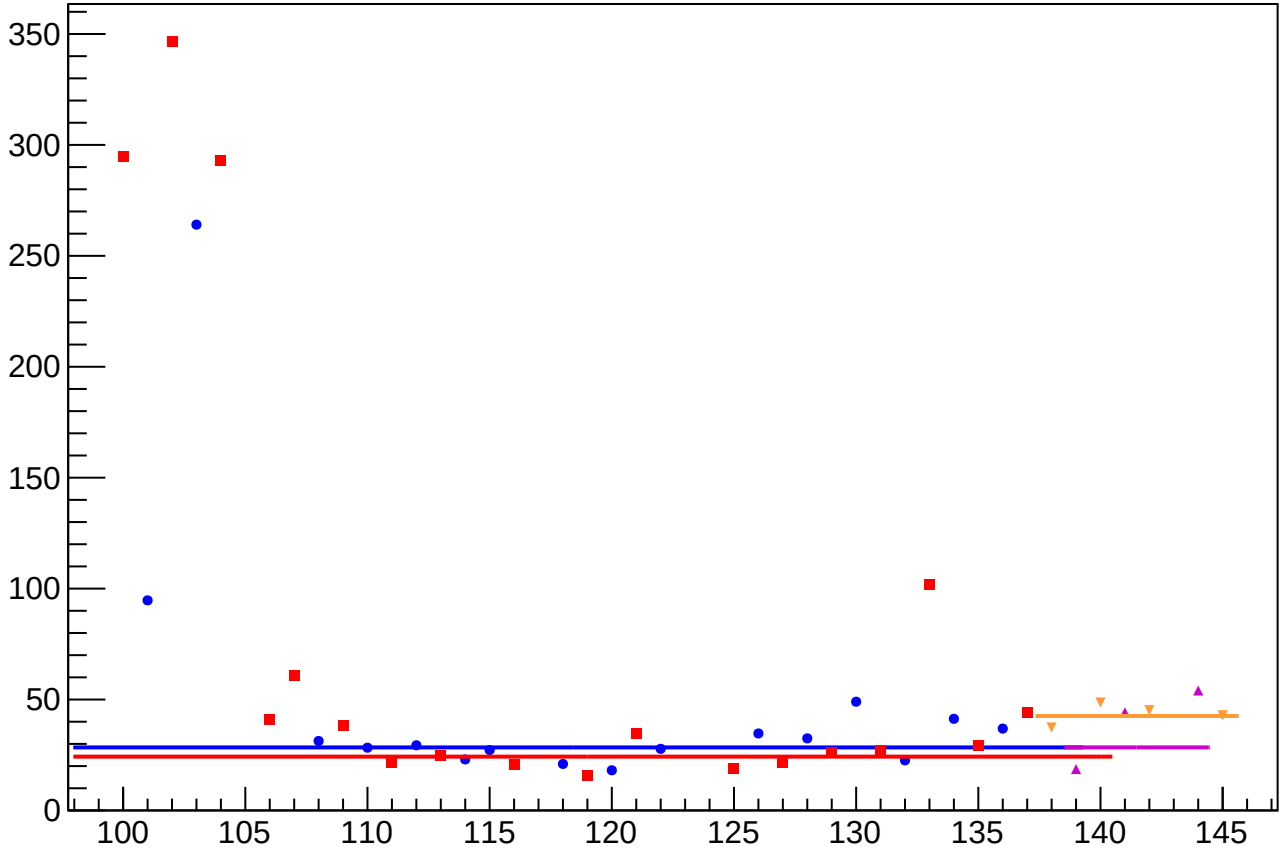
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.018+/-0.011 $\chi^2$/NDF:15.8/18

Out: -0.012+/-0.011 $\chi^2$/NDF:17.3/21

All: -0.015+/-0.008 $\chi^2$/NDF: 33.2/40

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: 42.585+/-0.019 $\chi^2$/NDF:53979.0/3

Right Out: 24.255+/-0.008 $\chi^2$/NDF: 2913469.3/17

Left In: 28.427+/-0.015 $\chi^2$/NDF:854754.3/2

Left: 34.056+/-0.012 $\chi^2$/NDF: 1247340.8/6

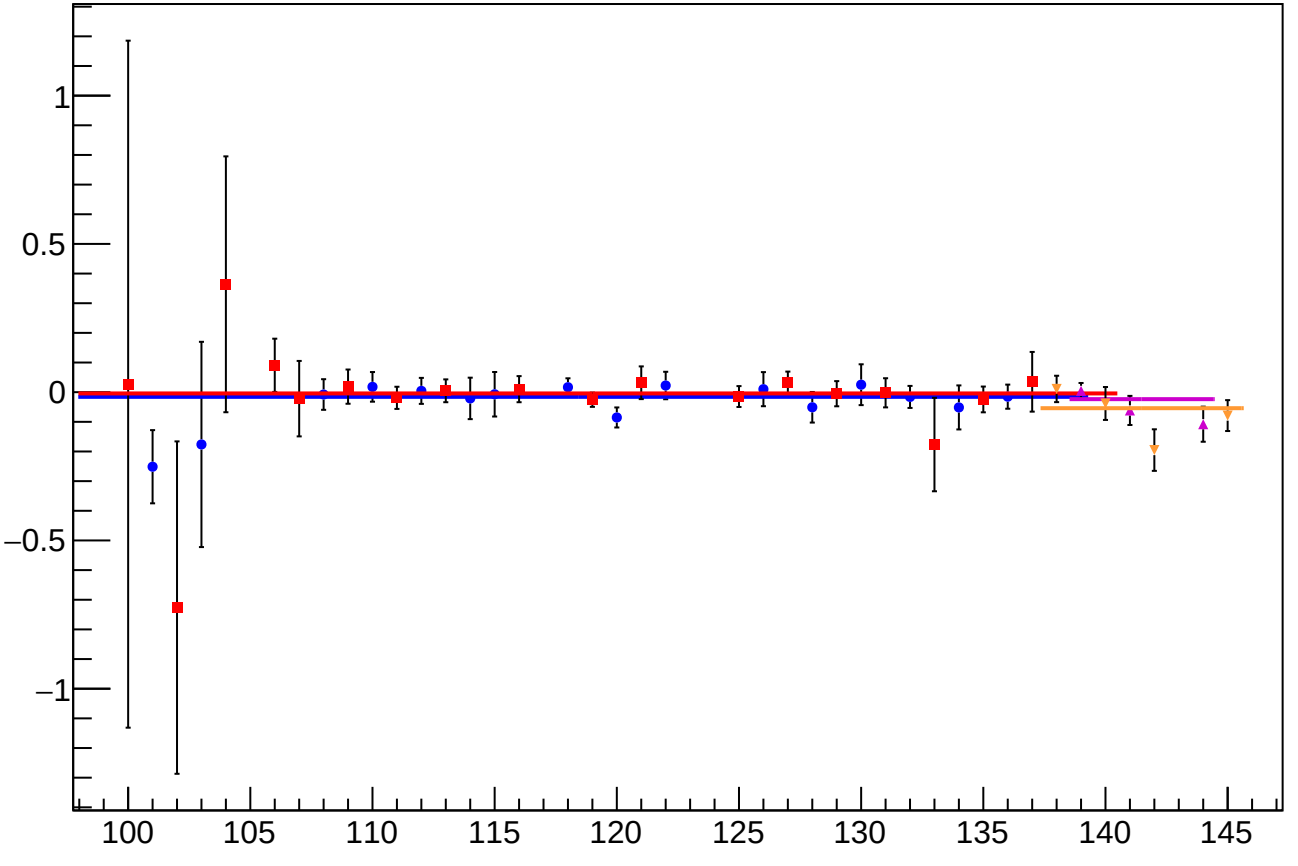
Right: 26.181+/-0.006 $\chi^2$/NDF: 5281459.7/33

In: 28.415+/-0.008 $\chi^2$/NDF:3100397.9/18

Out: 27.096+/-0.007 $\chi^2$/NDF:3763543.5/21

All: 27.744+/-0.005 $\chi^2$/NDF: 6879388.1/40

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: -0.054+/-0.027 $\chi^2$/NDF:6.5/3

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.024+/-0.022 $\chi^2$/NDF:3.8/2

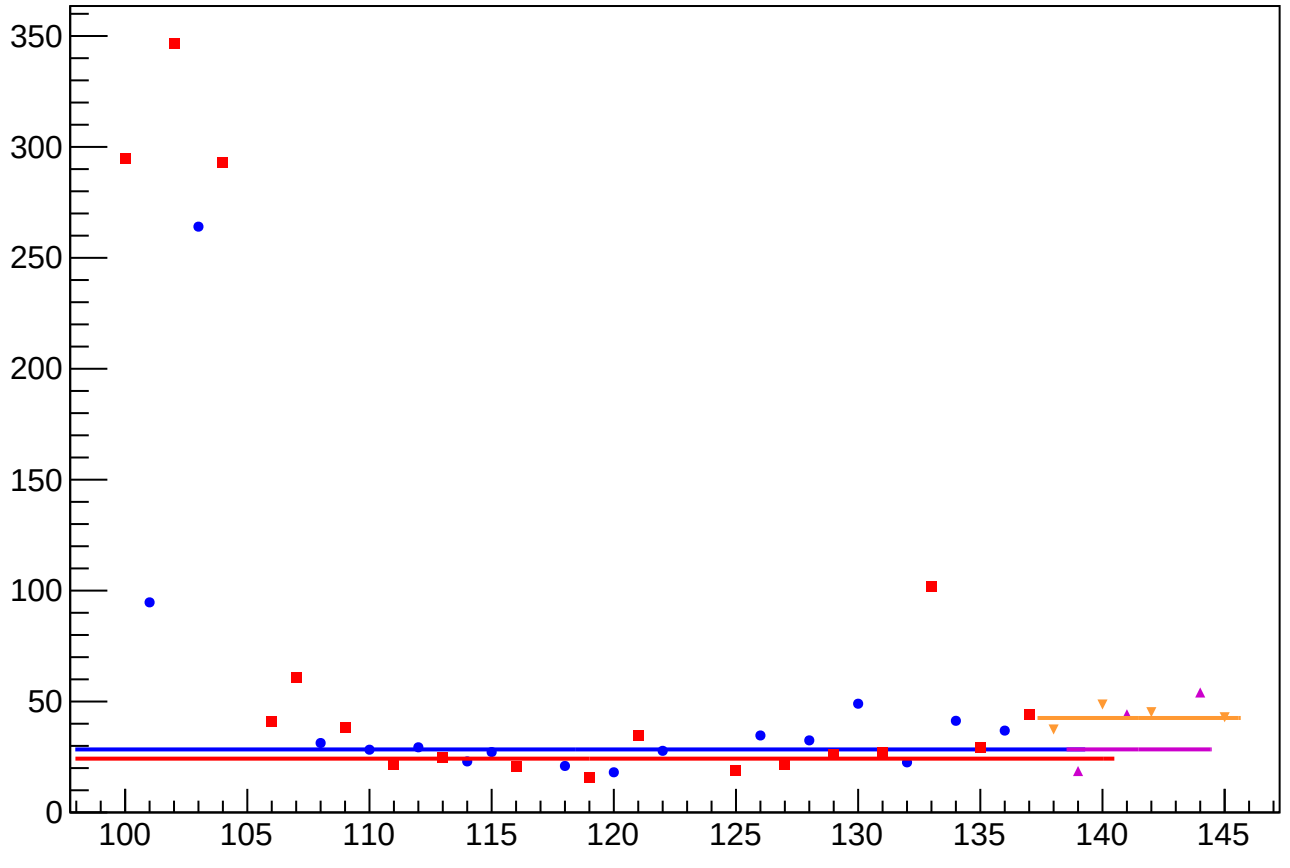
Left: -0.036+/-0.017 $\chi^2$/NDF: 11.0/6

Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.018+/-0.011 $\chi^2$/NDF:15.8/18

Out: -0.012+/-0.011 $\chi^2$/NDF:17.3/21

All: -0.015+/-0.008 $\chi^2$/NDF: 33.2/40




Right In: 28.411+/-0.009 $\chi^2$/NDF: 2245642.8/15

Left Out: 42.585+/-0.019 $\chi^2$/NDF:53979.0/3

Right Out: 24.255+/-0.008 $\chi^2$/NDF: 2913469.3/17

Left In: 28.427+/-0.015 $\chi^2$/NDF:854754.3/2

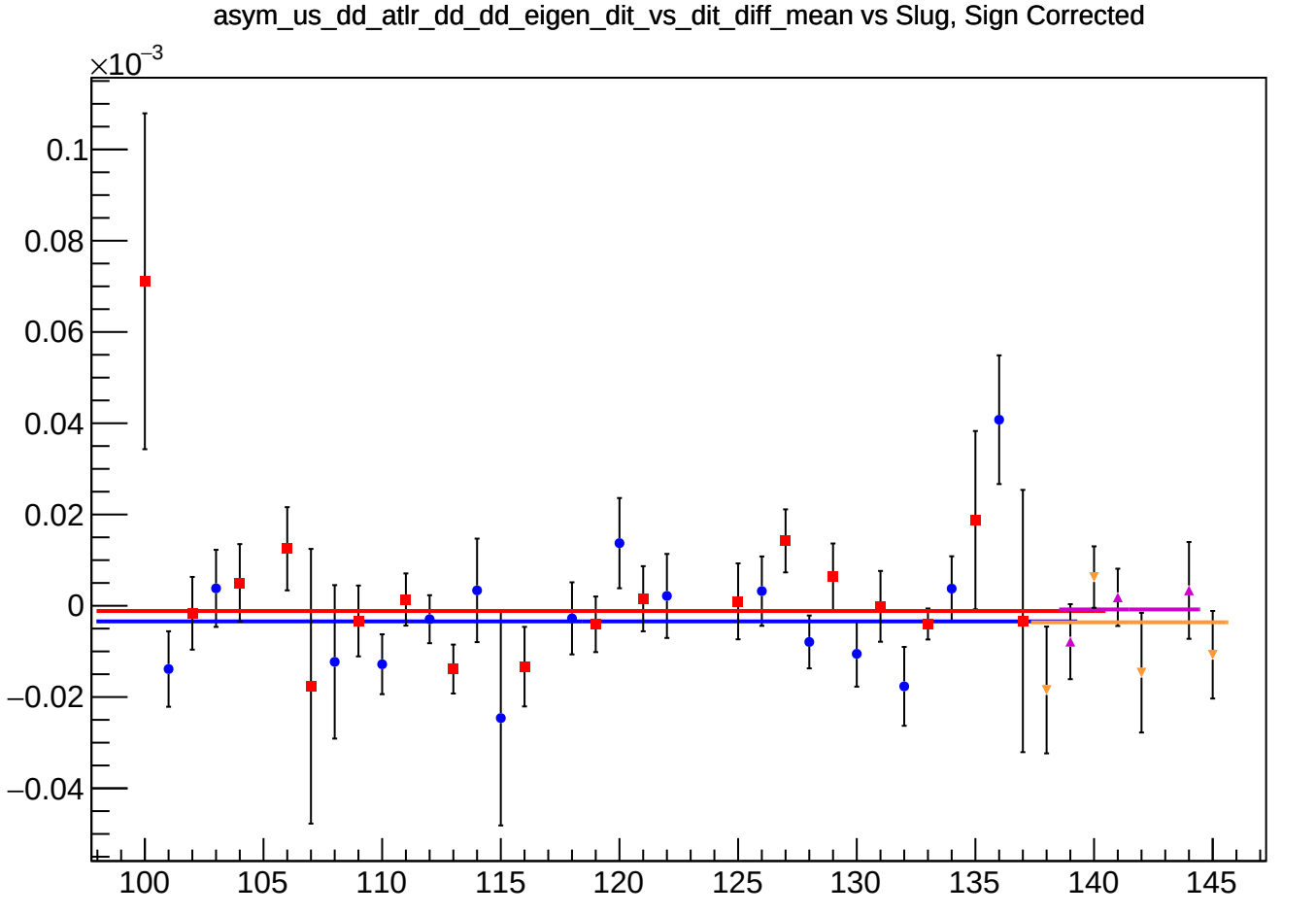
Left: 34.056+/-0.012 $\chi^2$/NDF: 1247340.8/6

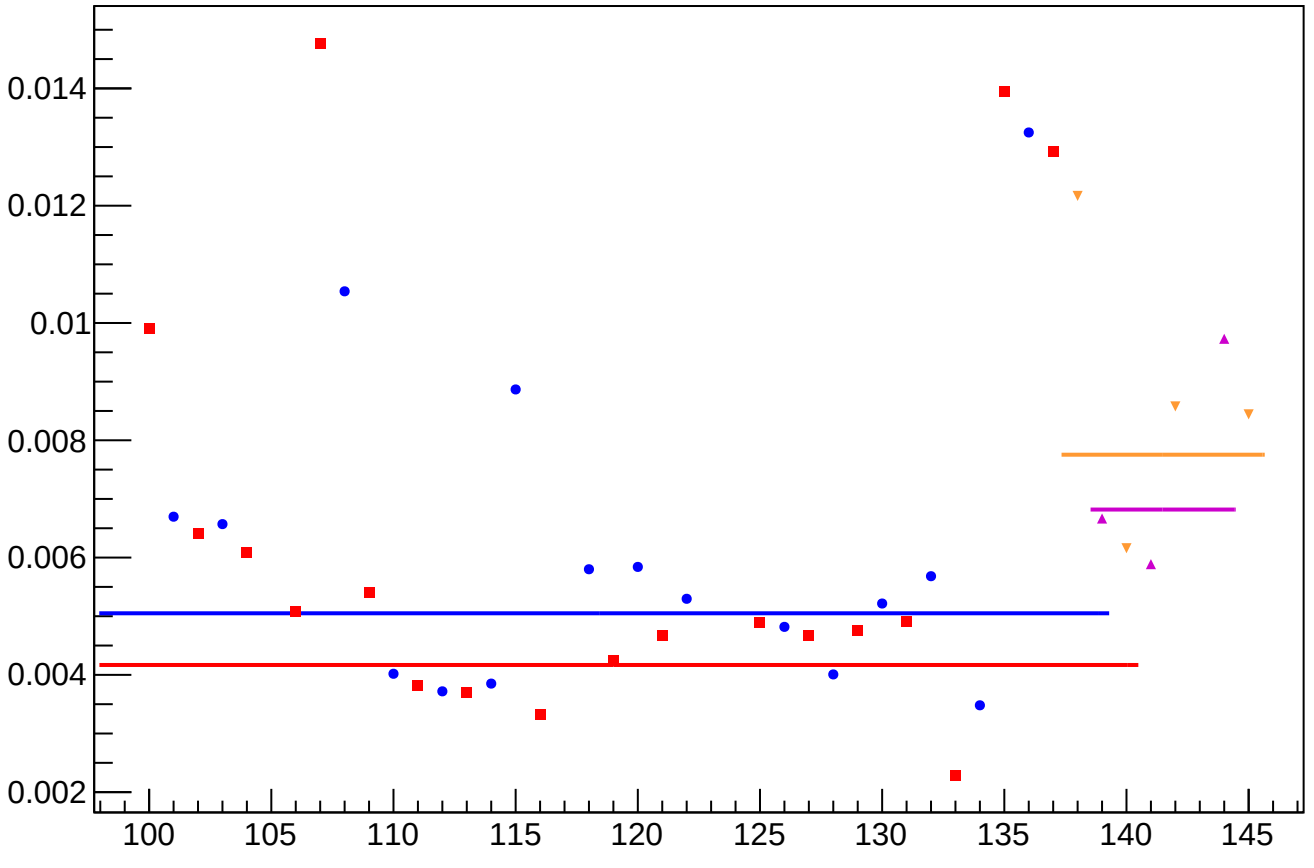
Right: 26.181+/-0.006 $\chi^2$/NDF: 5281459.7/33

In: 28.415+/-0.008 $\chi^2$/NDF:3100397.9/18

Out: 27.096+/-0.007 $\chi^2$/NDF:3763543.5/21

All: 27.744+/-0.005 $\chi^2$/NDF: 6879388.1/40


asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 25.1/15
Left Out: -0.000+/-0.000 χ²/NDF:4.6/3
Right Out: -0.000+/-0.000 χ²/NDF: 23.0/17
Left In: -0.000+/-0.000 χ²/NDF:1.1/2
Left: -0.000+/-0.000 χ²/NDF: 5.8/6
Right: -0.000+/-0.000 χ²/NDF: 48.9/33
In: -0.000+/-0.000 χ²/NDF:26.5/18
Out: -0.000+/-0.000 χ²/NDF:27.8/21
All: -0.000+/-0.000 χ²/NDF: 54.7/40




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1494215.1/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:332179.9/3

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 2041975.6/17

Left In: 0.007+/-0.000 $\chi^2$/NDF:195339.2/2

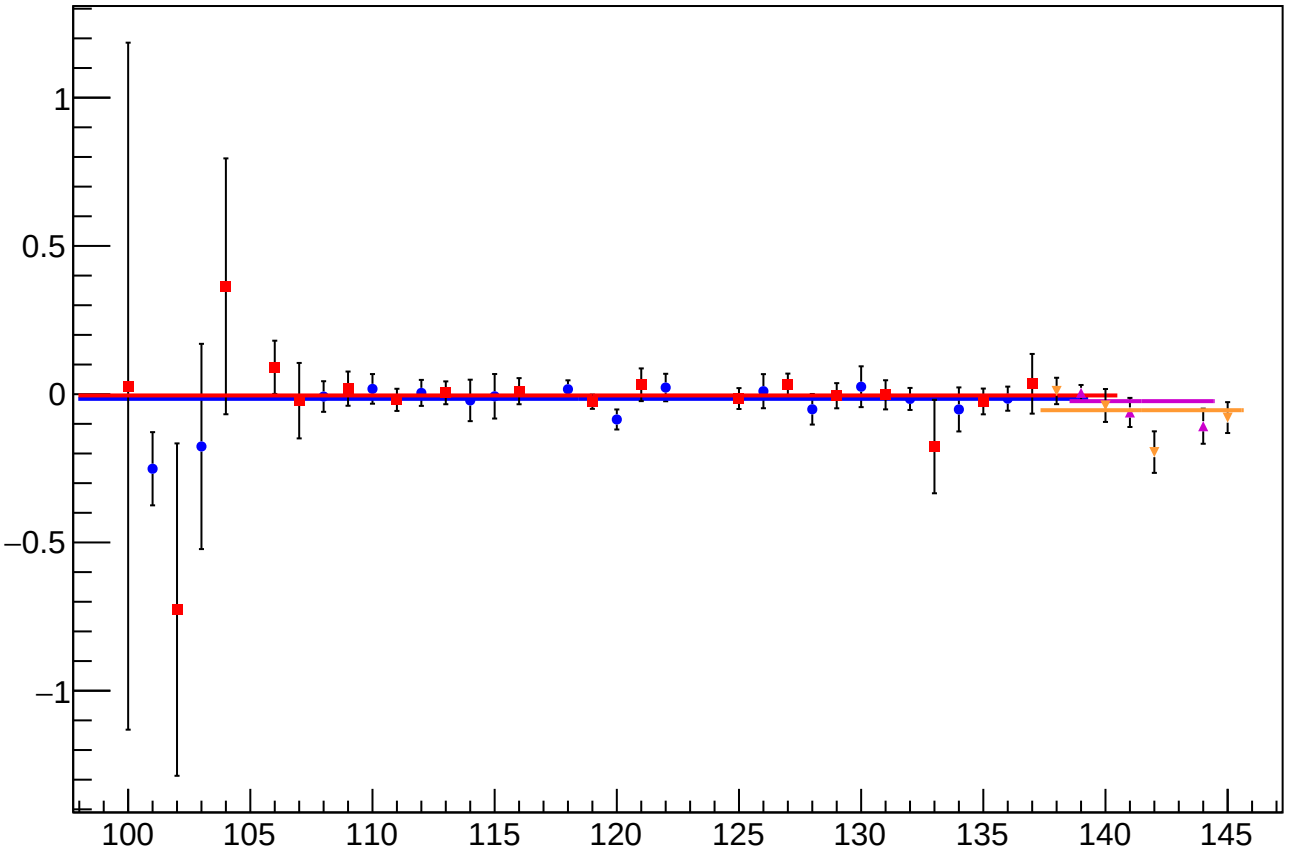
Left: 0.007+/-0.000 $\chi^2$/NDF: 568033.5/6

Right: 0.005+/-0.000 $\chi^2$/NDF: 3758667.6/33

In: 0.005+/-0.000 $\chi^2$/NDF:1945105.3/18

Out: 0.005+/-0.000 $\chi^2$/NDF:3375691.4/21

All: 0.005+/-0.000 $\chi^2$/NDF: 5521619.6/40




Right In: -0.016+/-0.012 $\chi^2$/NDF: 11.9/15

Left Out: -0.054+/-0.027 $\chi^2$/NDF:6.5/3

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.023+/-0.022 $\chi^2$/NDF:3.8/2

Left: -0.036+/-0.017 $\chi^2$/NDF: 11.0/6

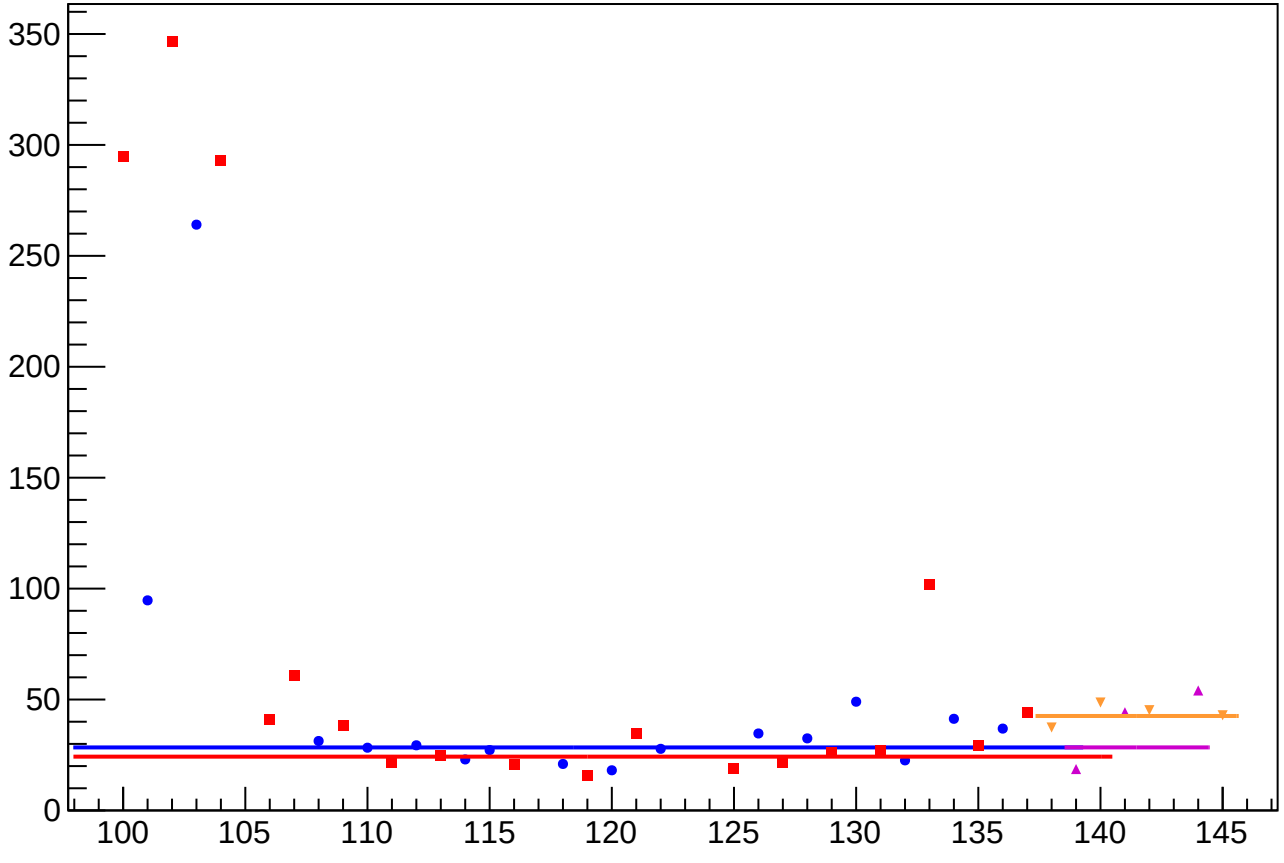
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.018+/-0.011 $\chi^2$/NDF:15.8/18

Out: -0.012+/-0.011 $\chi^2$/NDF:17.3/21

All: -0.015+/-0.008 $\chi^2$/NDF: 33.2/40

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: 42.585+/-0.019 $\chi^2$/NDF:54021.2/3

Right Out: 24.254+/-0.008 $\chi^2$/NDF: 2913710.0/17

Left In: 28.425+/-0.015 $\chi^2$/NDF:855063.3/2

Left: 34.054+/-0.012 $\chi^2$/NDF: 1247799.1/6

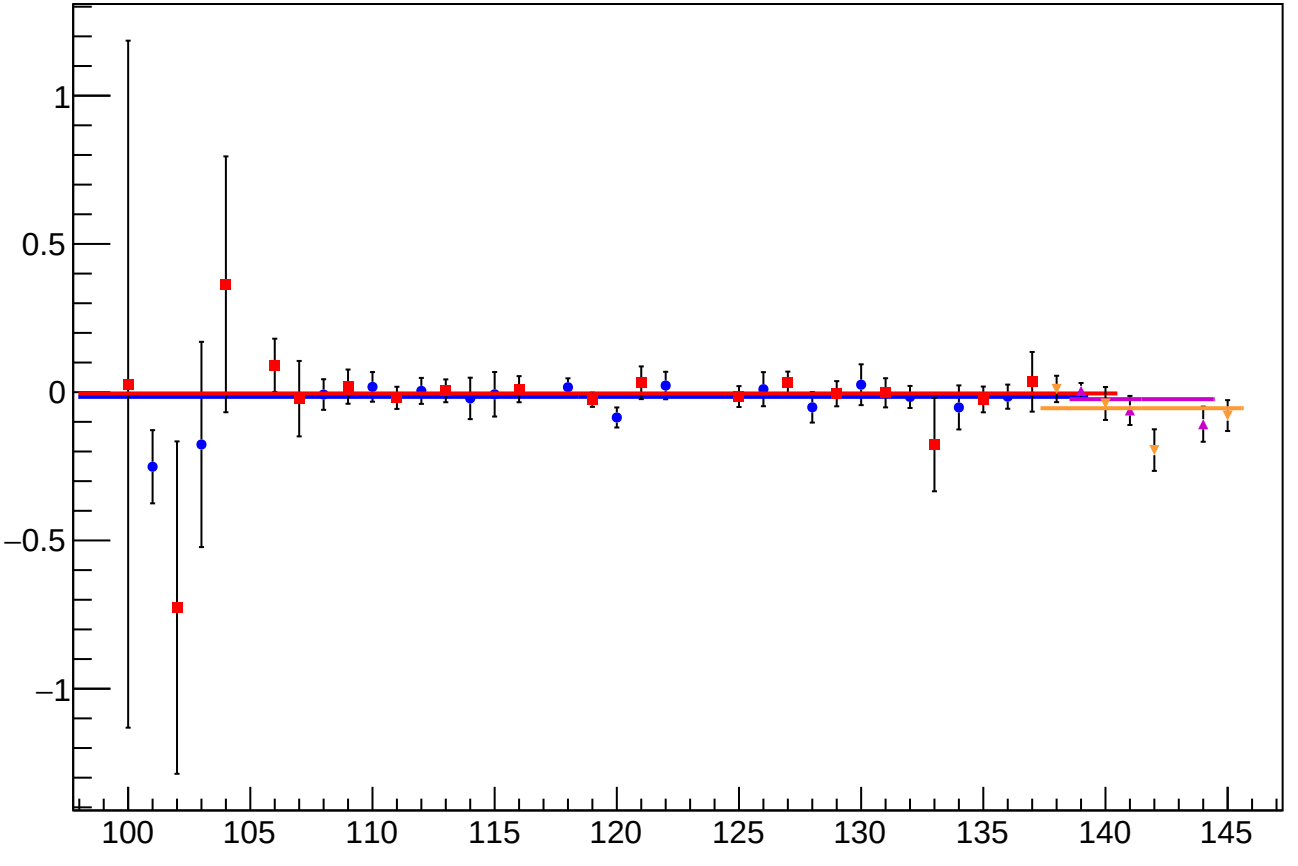
Right: 26.180+/-0.006 $\chi^2$/NDF: 5281817.4/33

In: 28.414+/-0.008 $\chi^2$/NDF:3100727.3/18

Out: 27.095+/-0.007 $\chi^2$/NDF:3763940.0/21

All: 27.743+/-0.005 $\chi^2$/NDF: 6880139.1/40

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: -0.054+/-0.027 $\chi^2$/NDF:6.5/3

Right Out: -0.004+/-0.011 $\chi^2$/NDF: 7.9/17

Left In: -0.023+/-0.022 $\chi^2$/NDF:3.8/2

Left: -0.036+/-0.017 $\chi^2$/NDF: 11.0/6

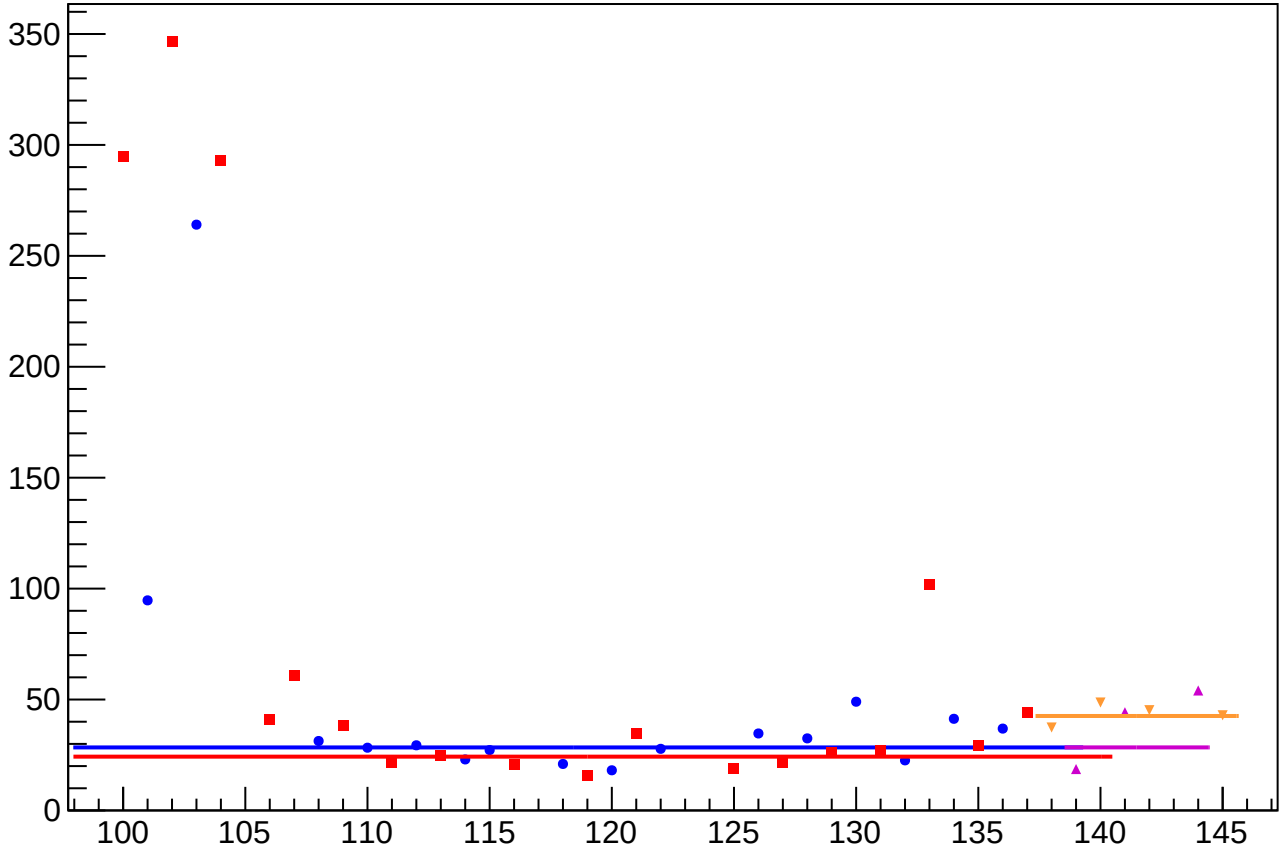
Right: -0.010+/-0.008 $\chi^2$/NDF: 20.2/33

In: -0.018+/-0.011 $\chi^2$/NDF:15.8/18

Out: -0.012+/-0.011 $\chi^2$/NDF:17.3/21

All: -0.015+/-0.008 $\chi^2$/NDF: 33.2/40

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: 42.585+/-0.019 $\chi^2$/NDF:54021.2/3

Right Out: 24.254+/-0.008 $\chi^2$/NDF: 2913710.0/17

Left In: 28.425+/-0.015 $\chi^2$/NDF:855063.3/2

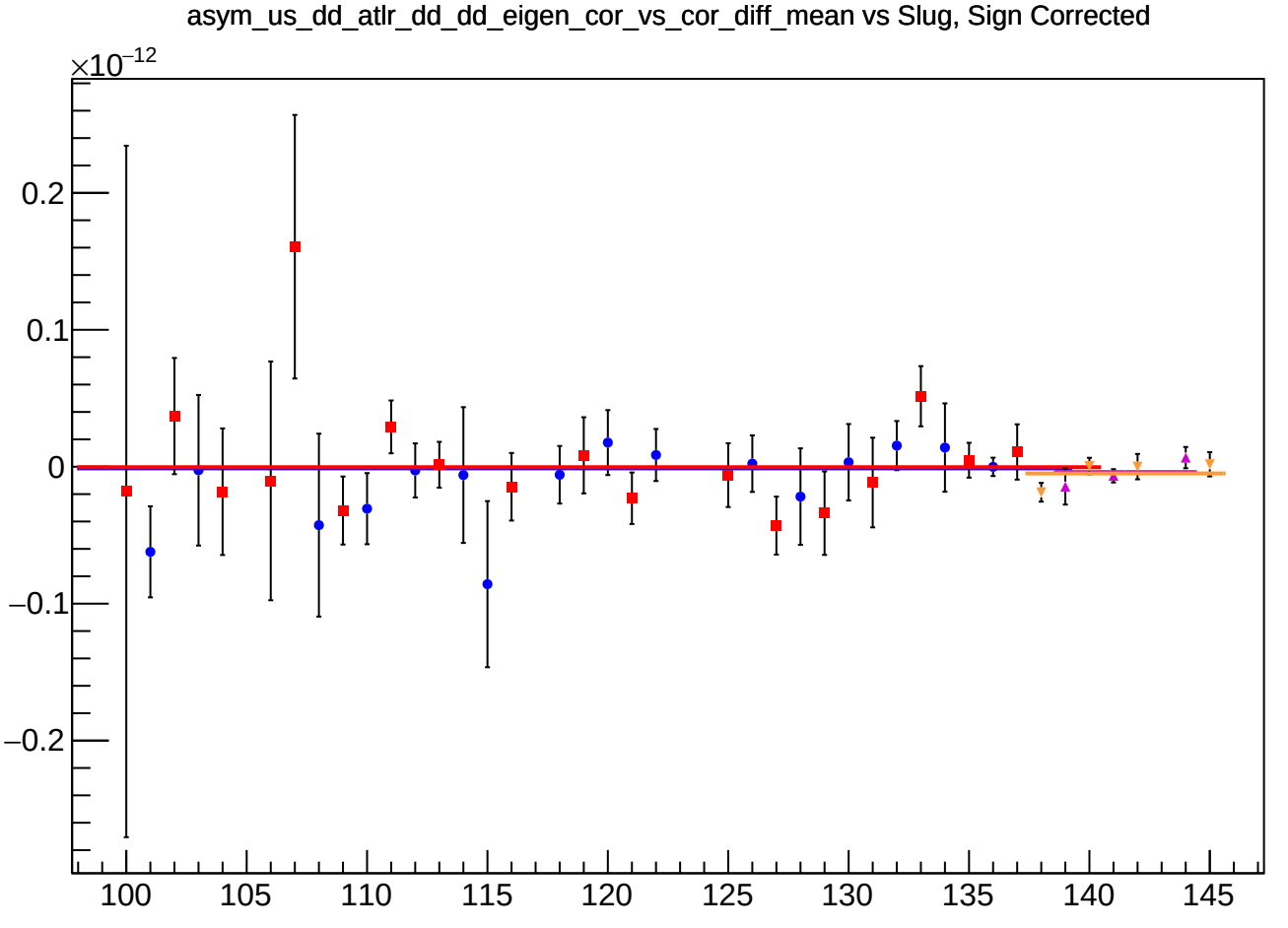
Left: 34.054+/-0.012 $\chi^2$/NDF: 1247799.1/6

Right: 26.180+/-0.006 $\chi^2$/NDF: 5281817.4/33

In: 28.414+/-0.008 $\chi^2$/NDF:3100727.3/18

Out: 27.095+/-0.007 $\chi^2$/NDF:3763940.0/21

All: 27.743+/-0.005 $\chi^2$/NDF: 6880139.1/40




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.7/3

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.1/17

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.8/2

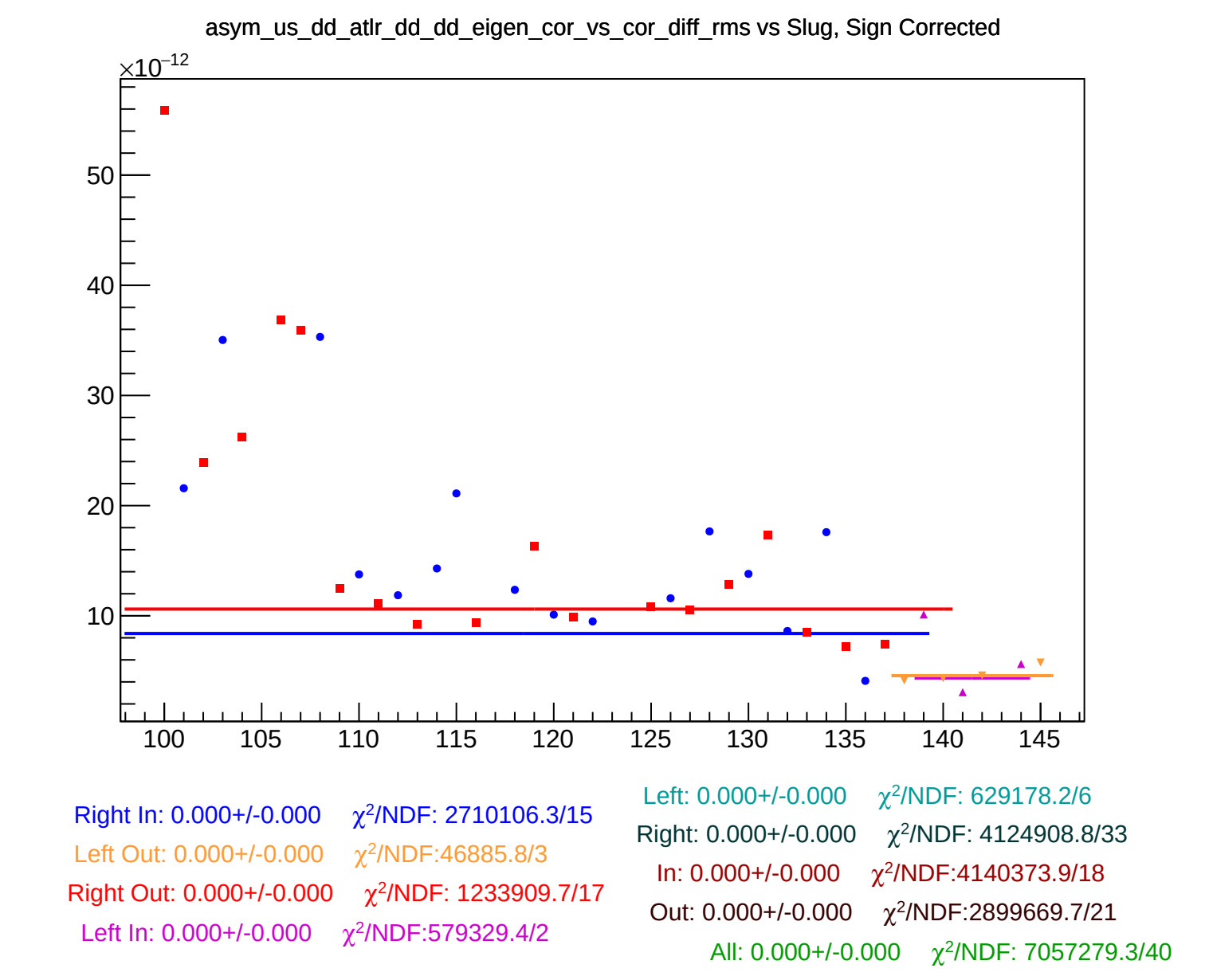
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.6/6

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.5/33

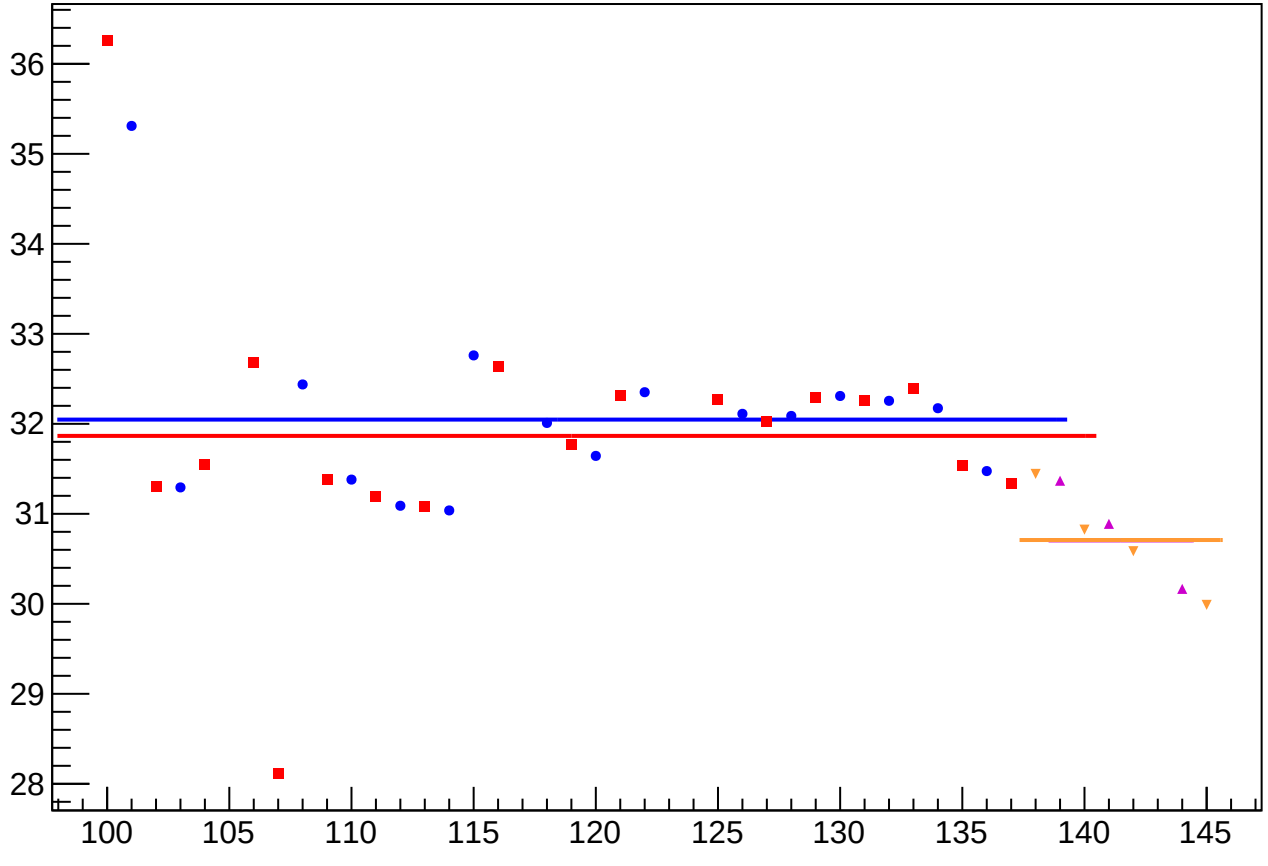
In: -0.000+/-0.000 $\chi^2$/NDF:12.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:27.2/21

All: -0.000+/-0.000 $\chi^2$/NDF: 39.7/40


asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2710106.3/15
Left Out: 0.000+/-0.000 χ²/NDF:46885.8/3
Right Out: 0.000+/-0.000 χ²/NDF: 1233909.7/17
Left In: 0.000+/-0.000 χ²/NDF:579329.4/2
Left: 0.000+/-0.000 χ²/NDF: 629178.2/6
Right: 0.000+/-0.000 χ²/NDF: 4124908.8/33
In: 0.000+/-0.000 χ²/NDF:4140373.9/18
Out: 0.000+/-0.000 χ²/NDF:2899669.7/21
All: 0.000+/-0.000 χ²/NDF: 7057279.3/40

# yield_usl_mean vs Slug, Sign Corrected




Right In: 32.047+/-0.000 $\chi^2$/NDF: 898593424.6/15

Left Out: 30.709+/-0.000 $\chi^2$/NDF:80045277.0/3

Right Out: 31.866+/-0.000 $\chi^2$/NDF: 485941075.6/17

Left In: 30.704+/-0.000 $\chi^2$/NDF:57540407.1/2

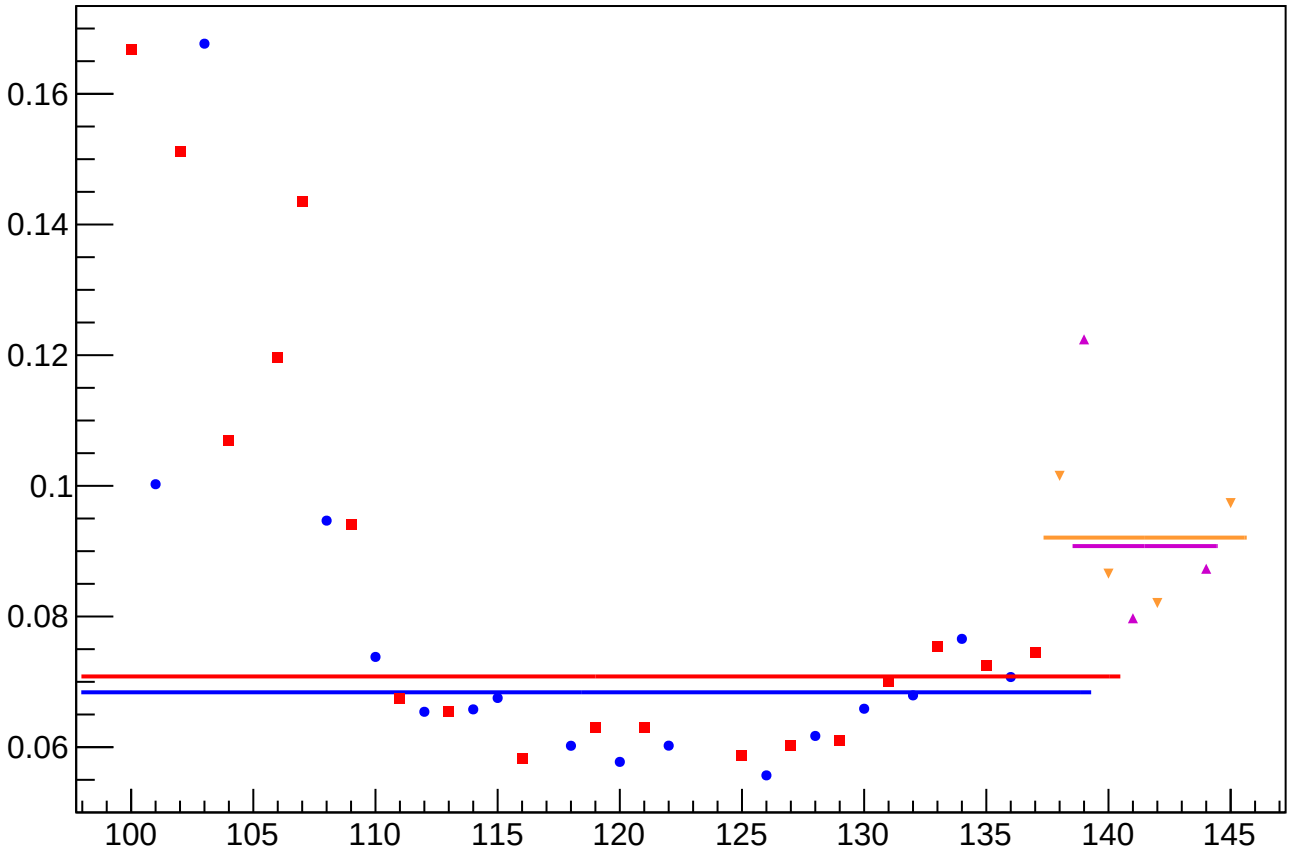
Left: 30.707+/-0.000 $\chi^2$/NDF: 137588560.4/6

Right: 31.960+/-0.000 $\chi^2$/NDF: 1405663241.1/33

In: 31.818+/-0.000 $\chi^2$/NDF:1367400239.8/18

Out: 31.643+/-0.000 $\chi^2$/NDF:886297706.1/21

All: 31.733+/-0.000 $\chi^2$/NDF: 2277853599.2/4




Right In: 0.068+/-0.000 $\chi^2$/NDF: 703207.9/15

Left Out: 0.092+/-0.000 $\chi^2$/NDF:33636.6/3

Right Out: 0.071+/-0.000 $\chi^2$/NDF: 868237.4/17

Left In: 0.091+/-0.000 $\chi^2$/NDF:136392.0/2

Left: 0.091+/-0.000 $\chi^2$/NDF: 170509.8/6

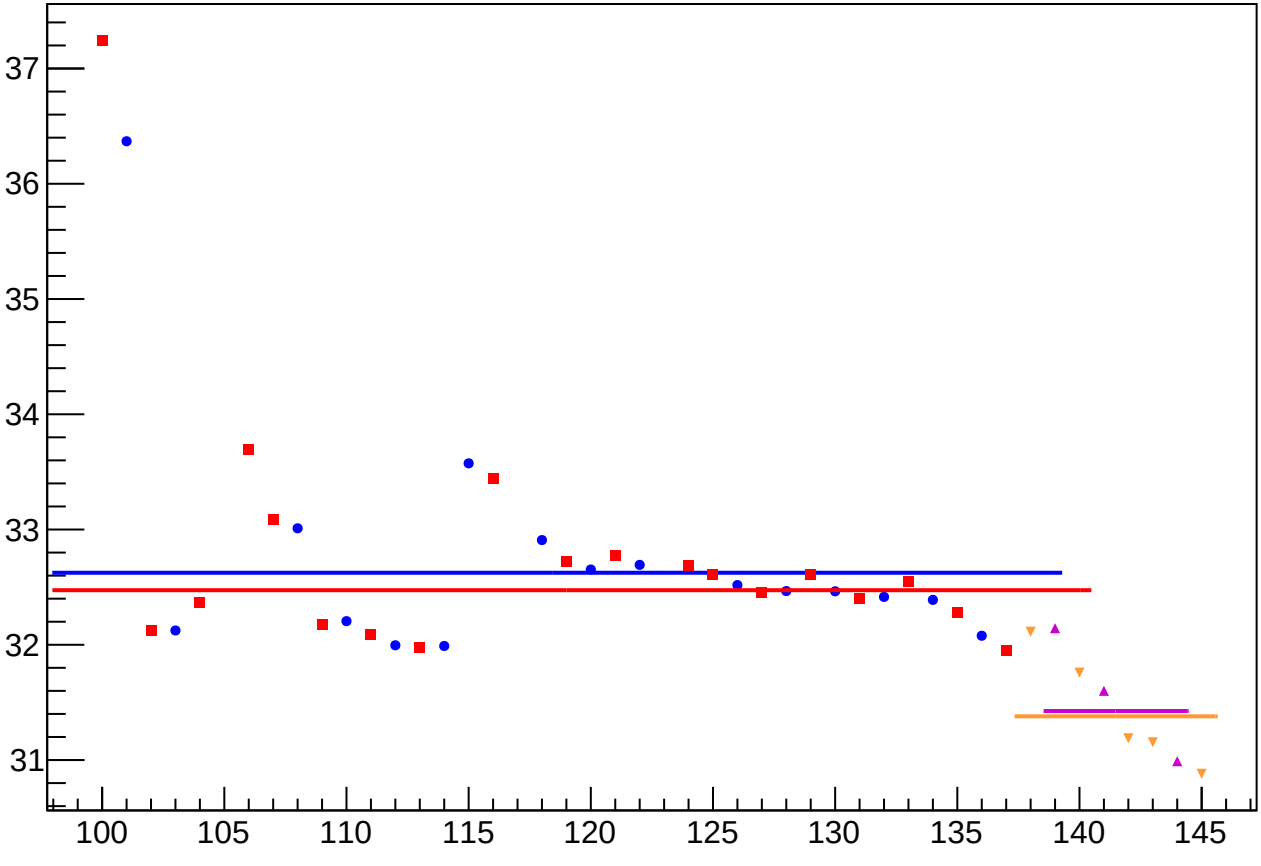
Right: 0.070+/-0.000 $\chi^2$/NDF: 1579028.4/33

In: 0.072+/-0.000 $\chi^2$/NDF:1068147.1/18

Out: 0.075+/-0.000 $\chi^2$/NDF:1118027.2/21

All: 0.074+/-0.000 $\chi^2$/NDF: 2197703.5/40

# yield_usr_mean vs Slug, Sign Corrected




Right In: 32.625+/-0.000 $\chi^2$/NDF: 739141163.5/15

Left Out: 31.379+/-0.000 $\chi^2$/NDF:89518307.9/4

Right Out: 32.474+/-0.000 $\chi^2$/NDF: 156801553.7/18

Left In: 31.425+/-0.000 $\chi^2$/NDF:55406726.8/2

Left: 31.398+/-0.000 $\chi^2$/NDF: 145340416.0/7

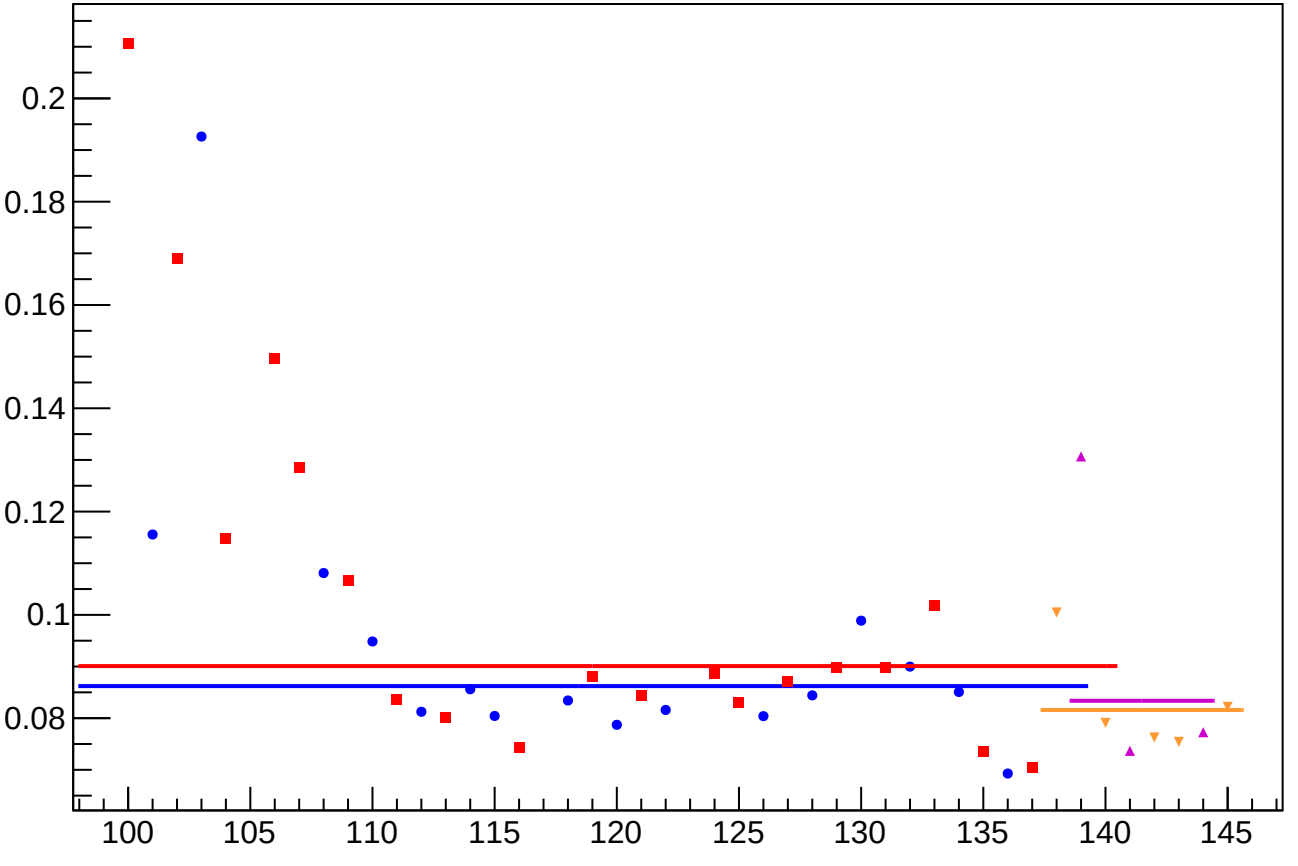
Right: 32.552+/-0.000 $\chi^2$/NDF: 905331922.0/34

In: 32.286+/-0.000 $\chi^2$/NDF:1138080778.9/18

Out: 32.061+/-0.000 $\chi^2$/NDF:604817305.1/23

All: 32.169+/-0.000 $\chi^2$/NDF: 1773889913.2/4

# yield_usr_rms vs Slug, Sign Corrected




Right In: 0.086+/-0.000 $\chi^2$/NDF: 598718.4/15

Left Out: 0.082+/-0.000 $\chi^2$/NDF:65200.6/4

Right Out: 0.090+/-0.000 $\chi^2$/NDF: 621848.1/18

Left In: 0.083+/-0.000 $\chi^2$/NDF:251877.5/2

Left: 0.082+/-0.000 $\chi^2$/NDF: 318322.6/7

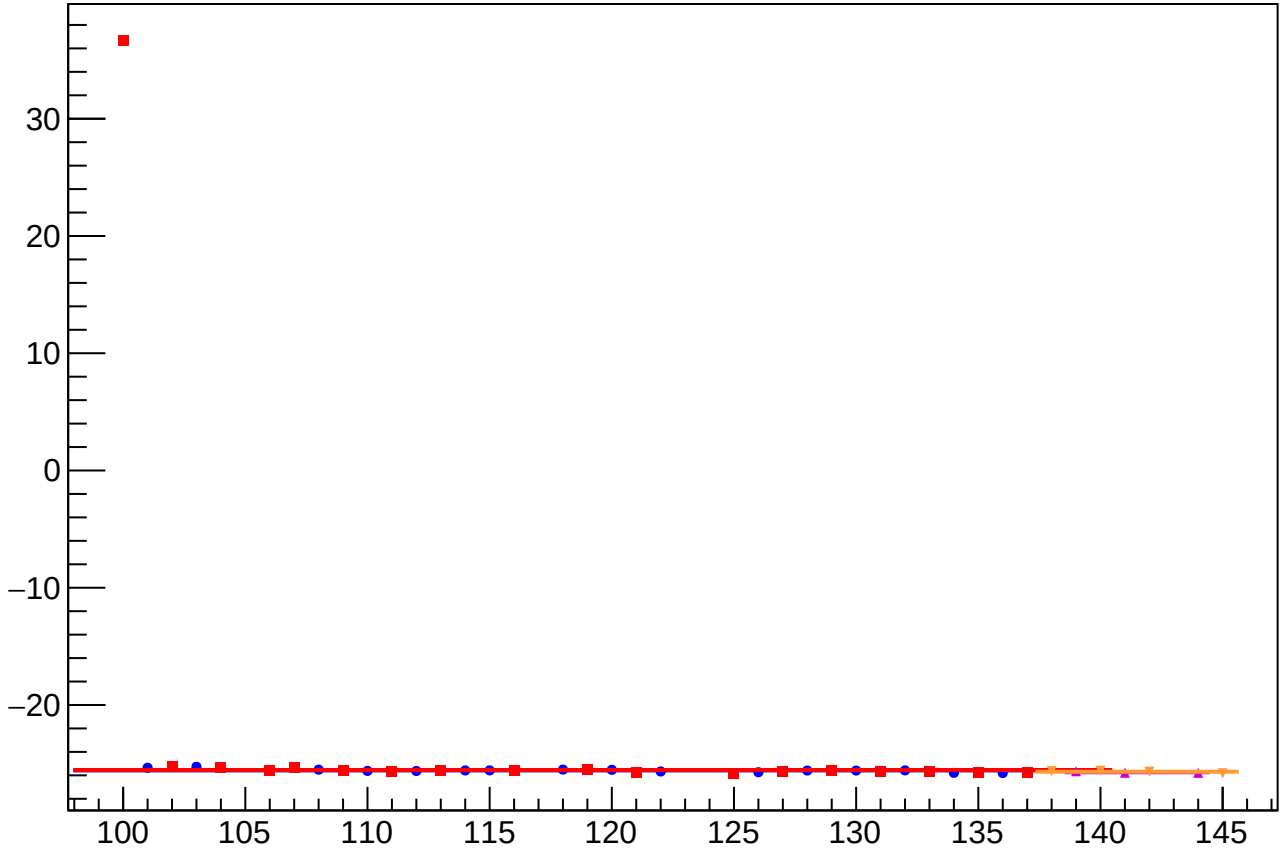
Right: 0.088+/-0.000 $\chi^2$/NDF: 1232875.9/34

In: 0.085+/-0.000 $\chi^2$/NDF:854441.2/18

Out: 0.087+/-0.000 $\chi^2$/NDF:730264.6/23

All: 0.086+/-0.000 $\chi^2$/NDF: 1587375.1/42

# yield_dsl_mean vs Slug, Sign Corrected




Right In: -25.579+/-0.000 $\chi^2$/NDF: 98389255.1/15

Left Out: -25.691+/-0.000 $\chi^2$/NDF:11135260.7/3

Right Out: -25.544+/-0.000 $\chi^2$/NDF: 8907540506.8/17

Left In: -25.739+/-0.000 $\chi^2$/NDF:5131926.9/2

Left: -25.714+/-0.000 $\chi^2$/NDF: 17865437.3/6

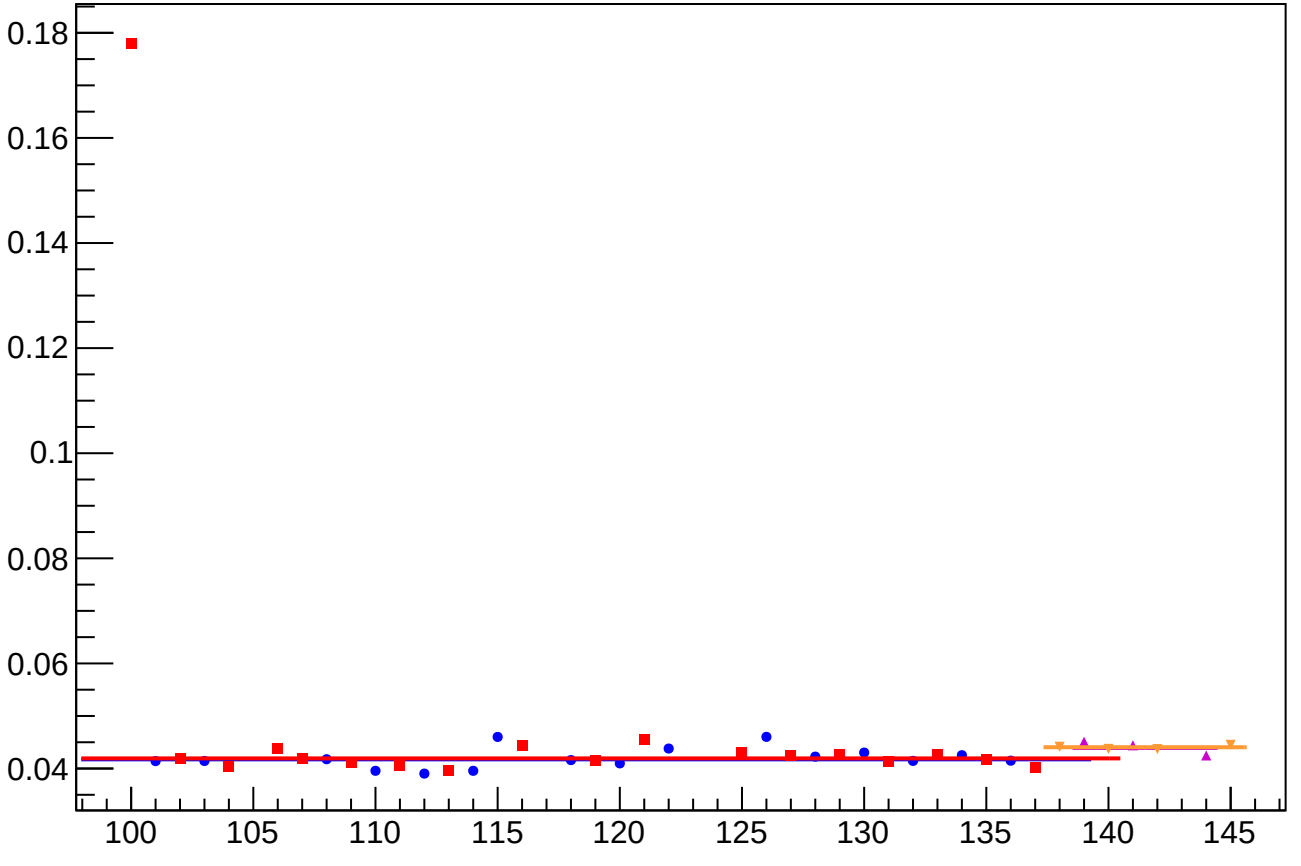
Right: -25.561+/-0.000 $\chi^2$/NDF: 9008481743.9/33

In: -25.618+/-0.000 $\chi^2$/NDF:129399556.0/18

Out: -25.582+/-0.000 $\chi^2$/NDF:8942125080.6/21

All: -25.600+/-0.000 $\chi^2$/NDF: 9075089628.4/

# yield_dsl_rms vs Slug, Sign Corrected




Right In: 0.042+/-0.000 $\chi^2$/NDF: 20733.3/15

Left Out: 0.044+/-0.000 $\chi^2$/NDF:320.5/3

Right Out: 0.042+/-0.000 $\chi^2$/NDF: 100140.4/17

Left In: 0.044+/-0.000 $\chi^2$/NDF:3373.2/2

Left: 0.044+/-0.000 $\chi^2$/NDF: 3717.2/6

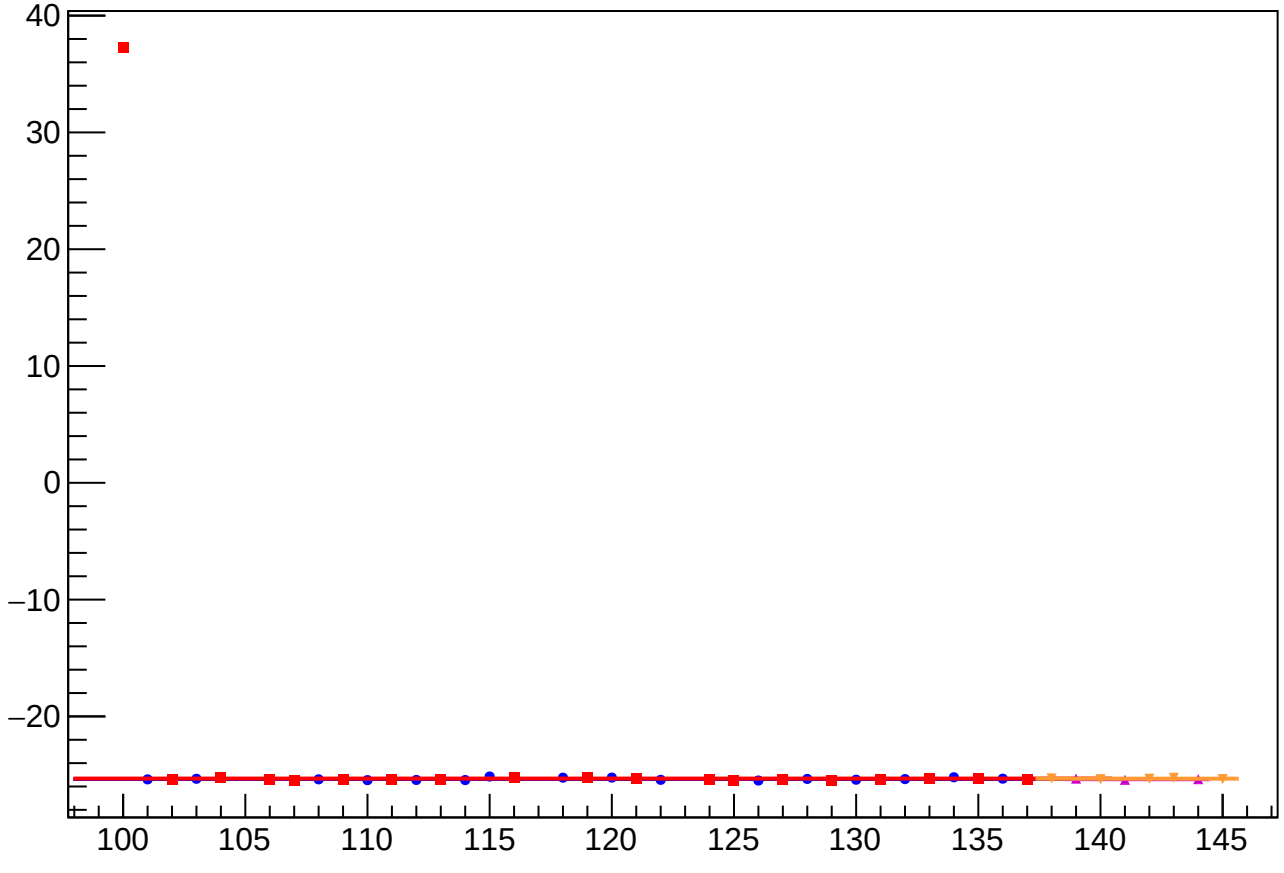
Right: 0.042+/-0.000 $\chi^2$/NDF: 121007.1/33

In: 0.042+/-0.000 $\chi^2$/NDF:33671.5/18

Out: 0.042+/-0.000 $\chi^2$/NDF:110196.2/21

All: 0.042+/-0.000 $\chi^2$/NDF: 144091.9/40

# yield_dsr_mean vs Slug, Sign Corrected




Right In: -25.360+/-0.000 $\chi^2$/NDF: 13284405.9/15

Left Out: -25.331+/-0.000 $\chi^2$/NDF:2074074.9/4

Right Out: -25.322+/-0.000 $\chi^2$/NDF: 6314907036.5/18

Left In: -25.373+/-0.000 $\chi^2$/NDF:1261034.0/2

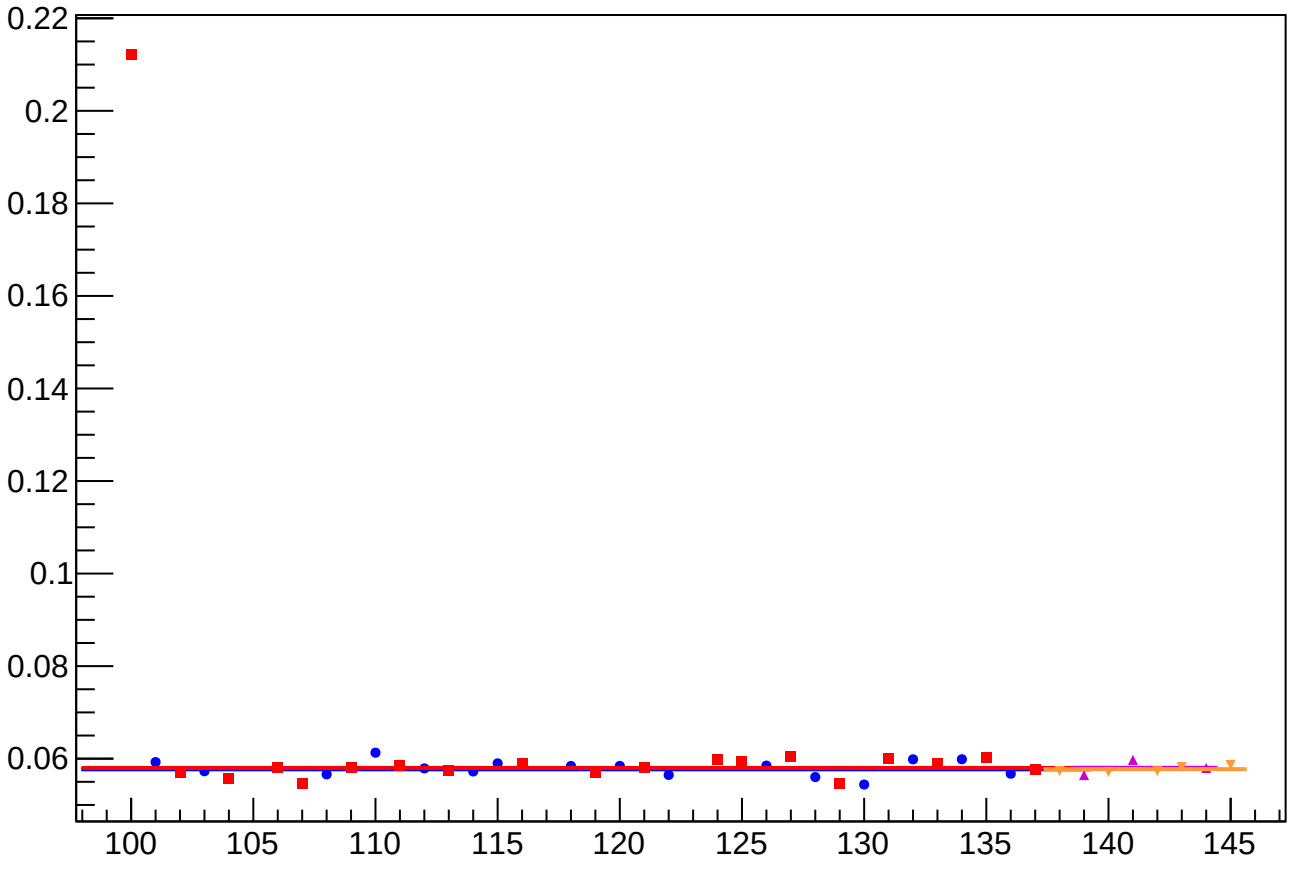
Left: -25.348+/-0.000 $\chi^2$/NDF: 4140642.2/7

Right: -25.341+/-0.000 $\chi^2$/NDF: 6329738520.5/34

In: -25.364+/-0.000 $\chi^2$/NDF:14640452.0/18

Out: -25.325+/-0.000 $\chi^2$/NDF:6317033476.2/23

All: -25.343+/-0.000 $\chi^2$/NDF: 6333948531.7/




Right In: 0.058+/-0.000 $\chi^2$/NDF: 11763.6/15

Left Out: 0.058+/-0.000 $\chi^2$/NDF:787.3/4

Right Out: 0.058+/-0.000 $\chi^2$/NDF: 88682.9/18

Left In: 0.058+/-0.000 $\chi^2$/NDF:2667.0/2

Left: 0.058+/-0.000 $\chi^2$/NDF: 3527.5/7

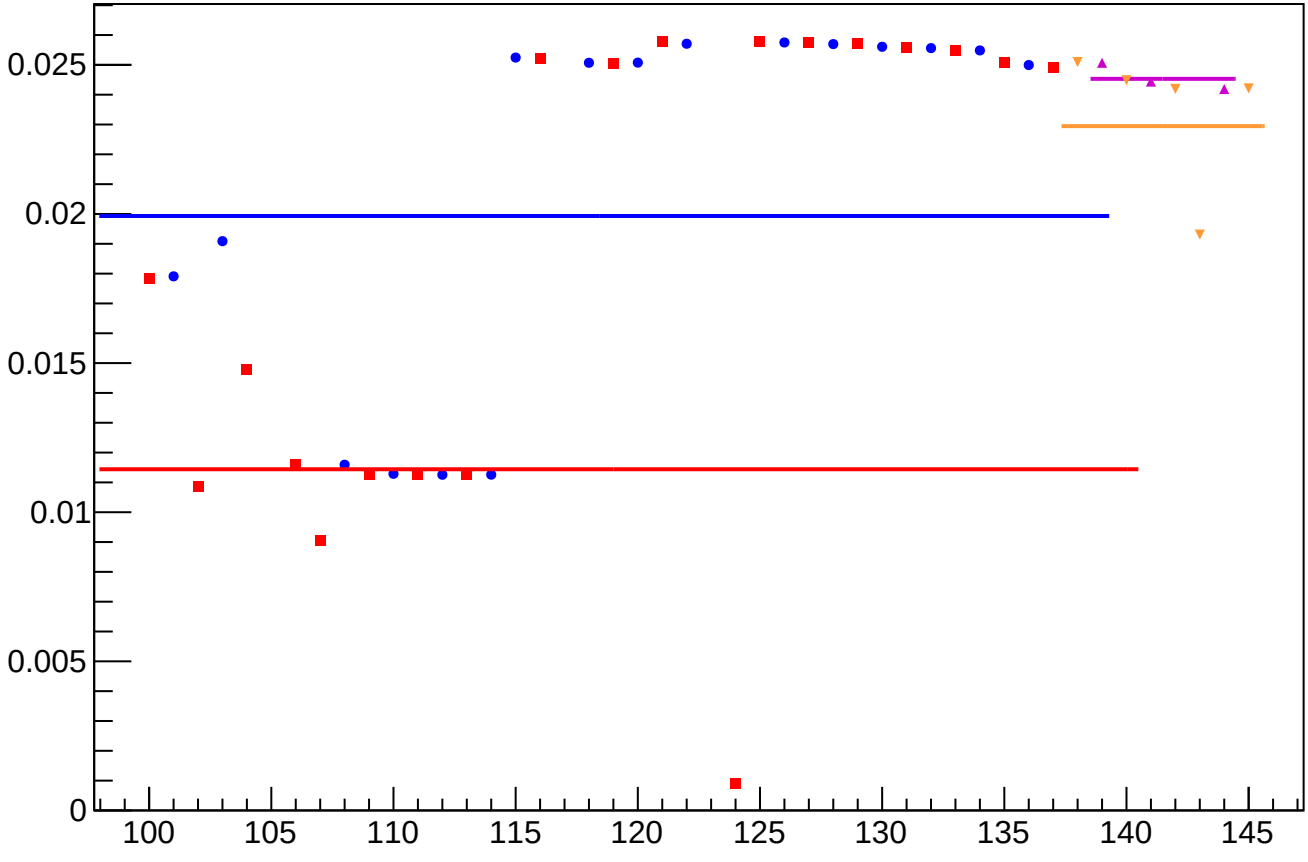
Right: 0.058+/-0.000 $\chi^2$/NDF: 100633.0/34

In: 0.058+/-0.000 $\chi^2$/NDF:14548.0/18

Out: 0.058+/-0.000 $\chi^2$/NDF:89565.9/23

All: 0.058+/-0.000 $\chi^2$/NDF: 104160.7/42

# yield_atl1_mean vs Slug, Sign Corrected




Right In: 0.020+/-0.000 $\chi^2$/NDF: 62465154056.0/15

Left Out: 0.023+/-0.000 $\chi^2$/NDF:3474000647.9/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 253880264851.8/18

Left In: 0.025+/-0.000 $\chi^2$/NDF:46434180.7/2

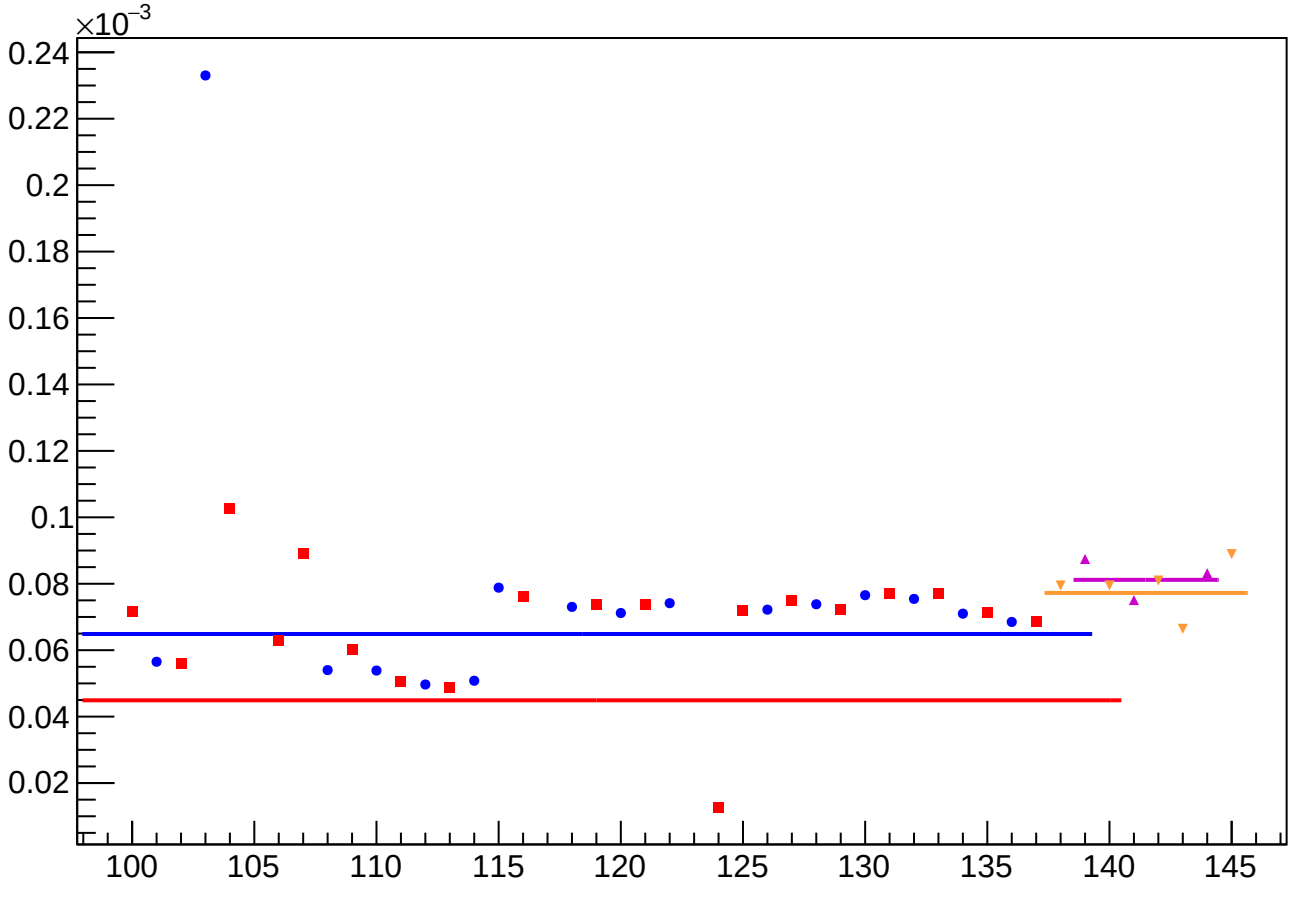
Left: 0.024+/-0.000 $\chi^2$/NDF: 4100918984.6/7

Right: 0.015+/-0.000 $\chi^2$/NDF: 385775066677.0/34

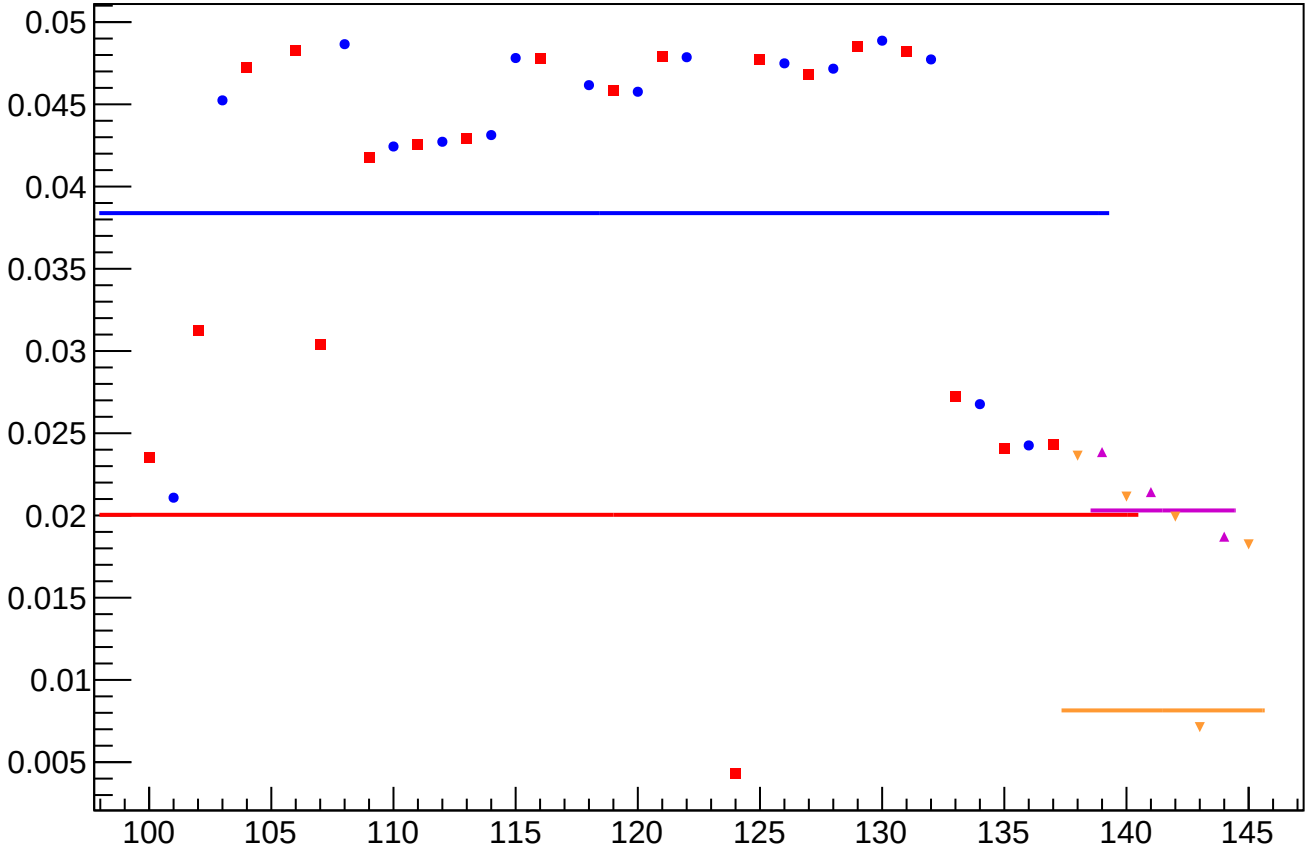
In: 0.021+/-0.000 $\chi^2$/NDF:68990194201.7/18

Out: 0.014+/-0.000 $\chi^2$/NDF:320125993753.9/23

All: 0.016+/-0.000 $\chi^2$/NDF: 451561514095.0


yield_atl1_rms vs Slug, Sign Corrected
×10⁻³
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 816892.1/15
Left Out: 0.000+/-0.000 χ²/NDF:72968.9/4
Right Out: 0.000+/-0.000 χ²/NDF: 3770565.9/18
Left In: 0.000+/-0.000 χ²/NDF:20429.2/2
Left: 0.000+/-0.000 χ²/NDF: 100568.4/7
Right: 0.000+/-0.000 χ²/NDF: 5354969.6/34
In: 0.000+/-0.000 χ²/NDF:1000169.1/18
Out: 0.000+/-0.000 χ²/NDF:4834715.8/23
All: 0.000+/-0.000 χ²/NDF: 6532309.6/42

# yield_atl2_mean vs Slug, Sign Corrected




Right In: 0.038+/-0.000 $\chi^2$/NDF: 7078619233.3/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:5969047359.8/4

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 42185025429.6/18

Left In: 0.020+/-0.000 $\chi^2$/NDF:95291161.2/2

Left: 0.009+/-0.000 $\chi^2$/NDF: 10457287488.8/7

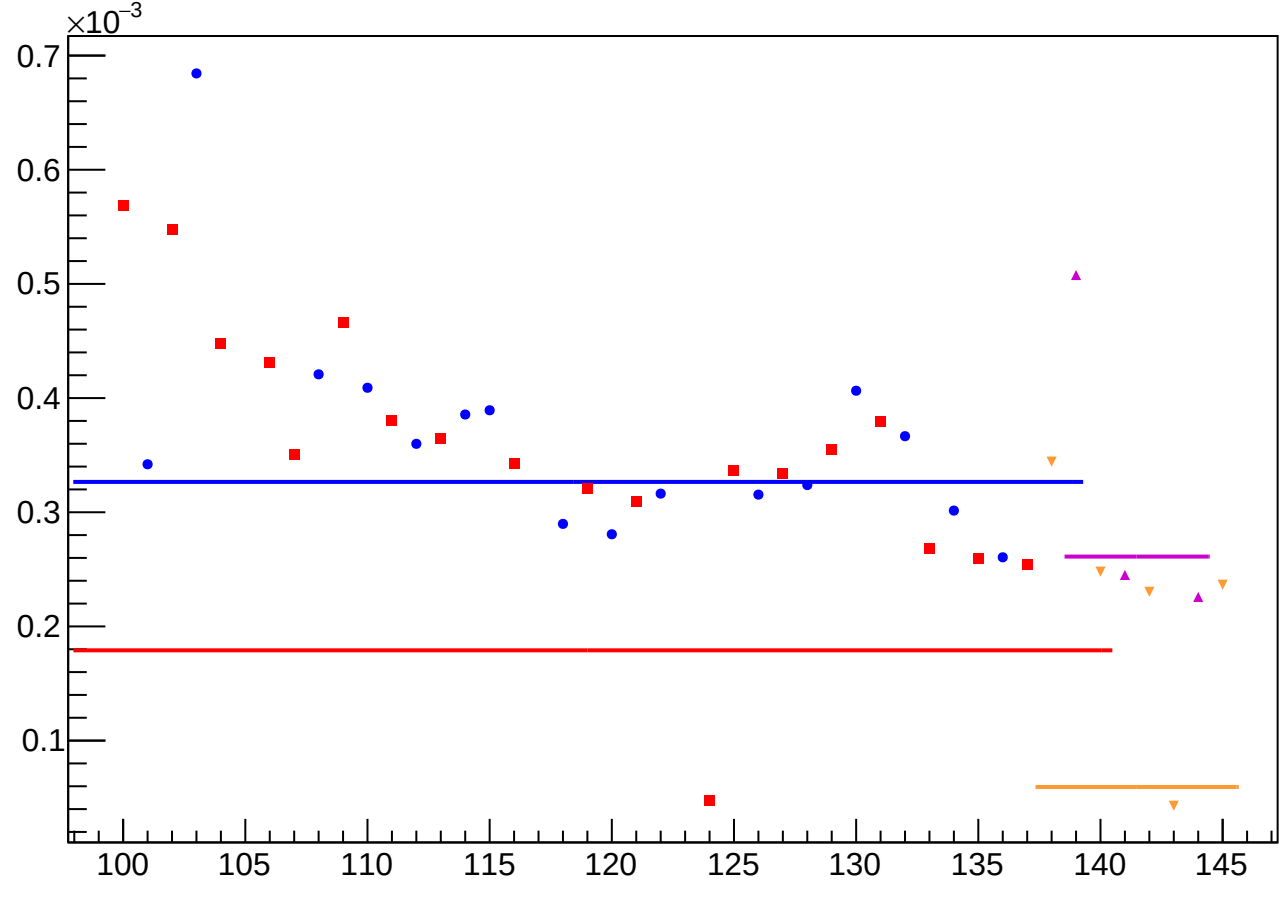
Right: 0.026+/-0.000 $\chi^2$/NDF: 62680347103.1/34

In: 0.032+/-0.000 $\chi^2$/NDF:13923686436.0/18

Out: 0.011+/-0.000 $\chi^2$/NDF:61872689403.6/23

All: 0.013+/-0.000 $\chi^2$/NDF: 112203481742.0

# yield_atl2_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 581428.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3164979.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5660786.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:423828.7/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 6008825.7/7

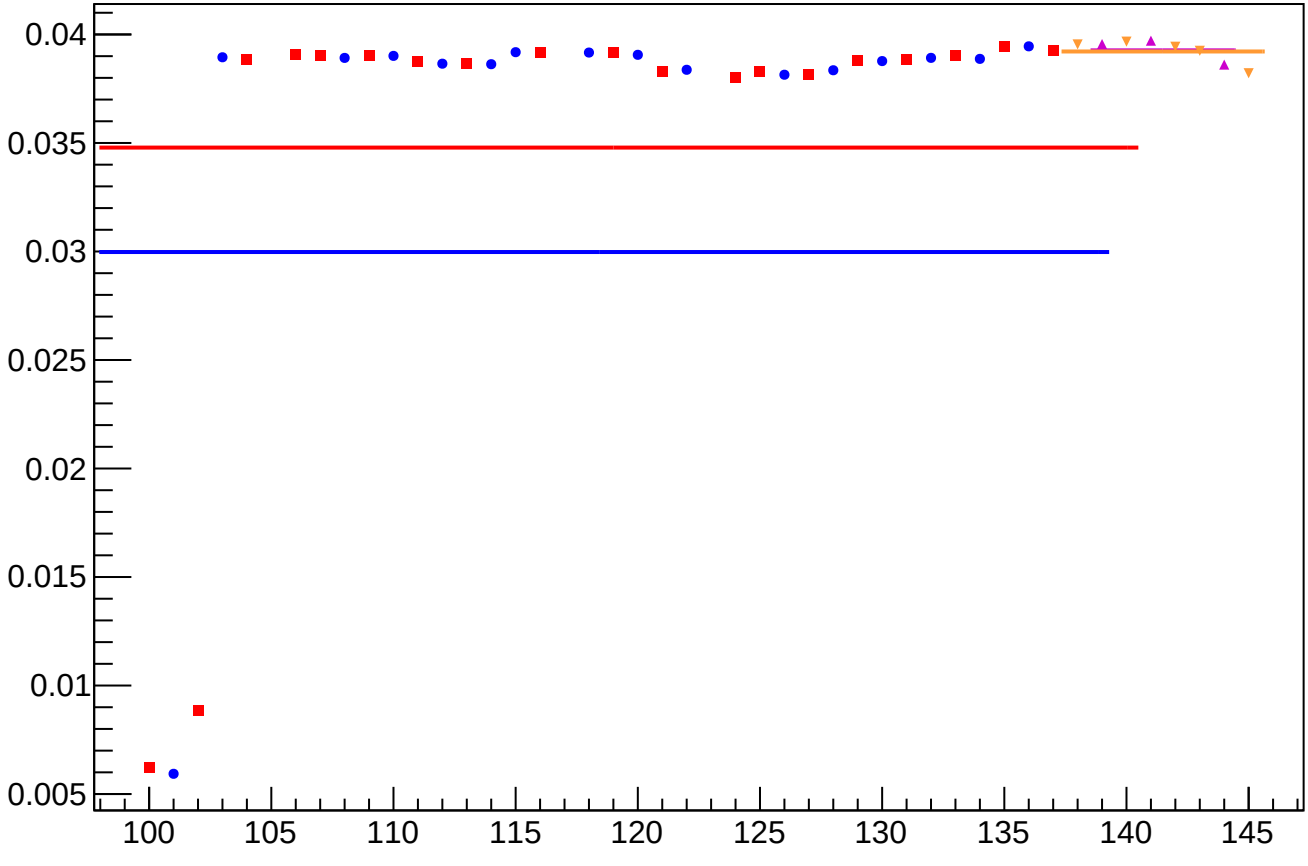
Right: 0.000+/-0.000 $\chi^2$/NDF: 7977614.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:1181939.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:11603741.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 20403888.3/42

# yield_atr1_mean vs Slug, Sign Corrected




Right In: 0.030+/-0.000 $\chi^2$/NDF: 108275706275.7/15

Left Out: 0.039+/-0.000 $\chi^2$/NDF:46871614.8/4

Right Out: 0.035+/-0.000 $\chi^2$/NDF: 47263545471.6/18

Left In: 0.039+/-0.000 $\chi^2$/NDF:28952478.8/2

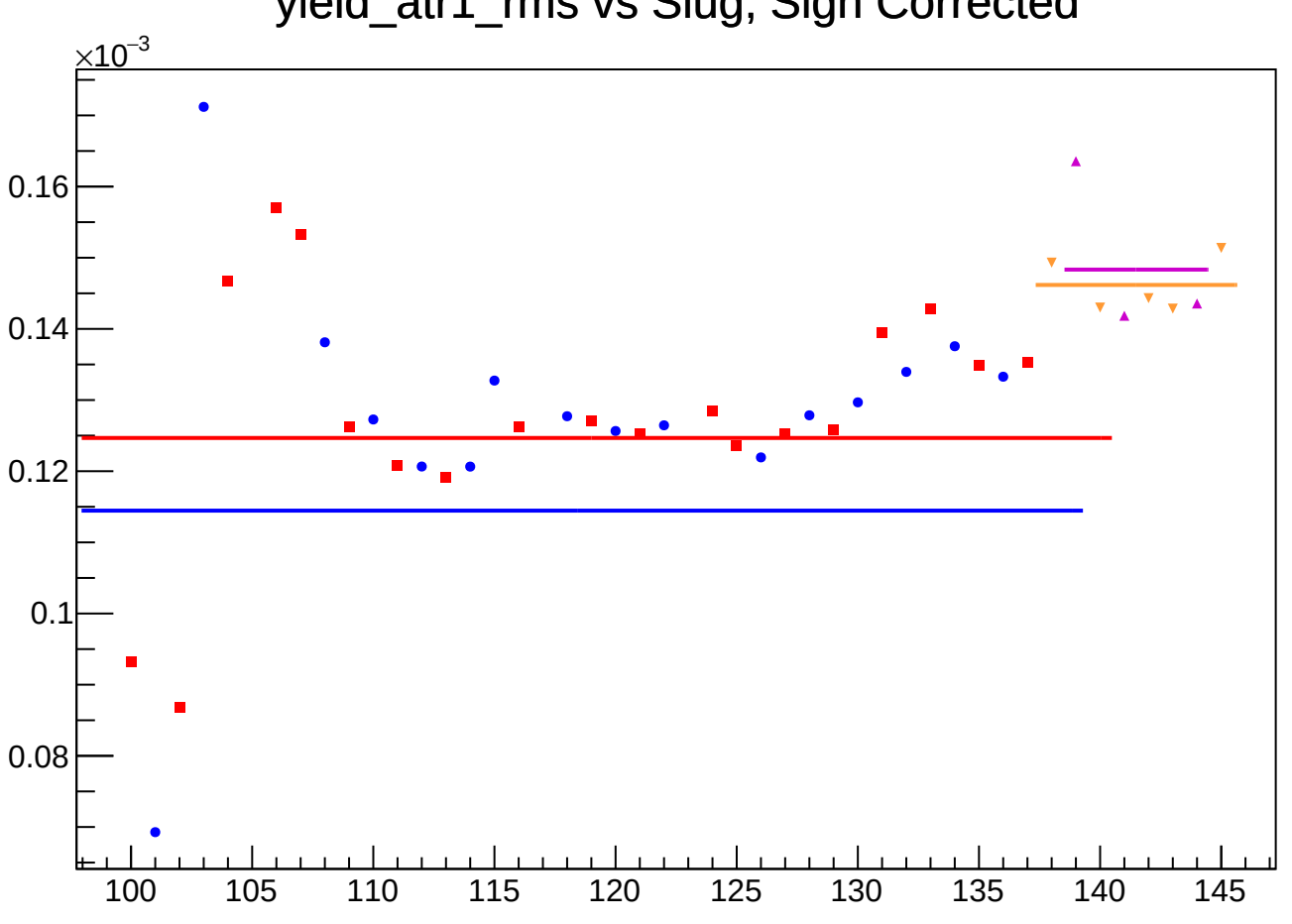
Left: 0.039+/-0.000 $\chi^2$/NDF: 76005583.7/7

Right: 0.032+/-0.000 $\chi^2$/NDF: 161037517780.6/34

In: 0.032+/-0.000 $\chi^2$/NDF:116367271874.6/18

Out: 0.036+/-0.000 $\chi^2$/NDF:49662153028.7/23

All: 0.034+/-0.000 $\chi^2$/NDF: 171705190166.3




Right In: 0.000+/-0.000 $\chi^2$/NDF: 853142.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4259.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 260393.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:19724.2/2

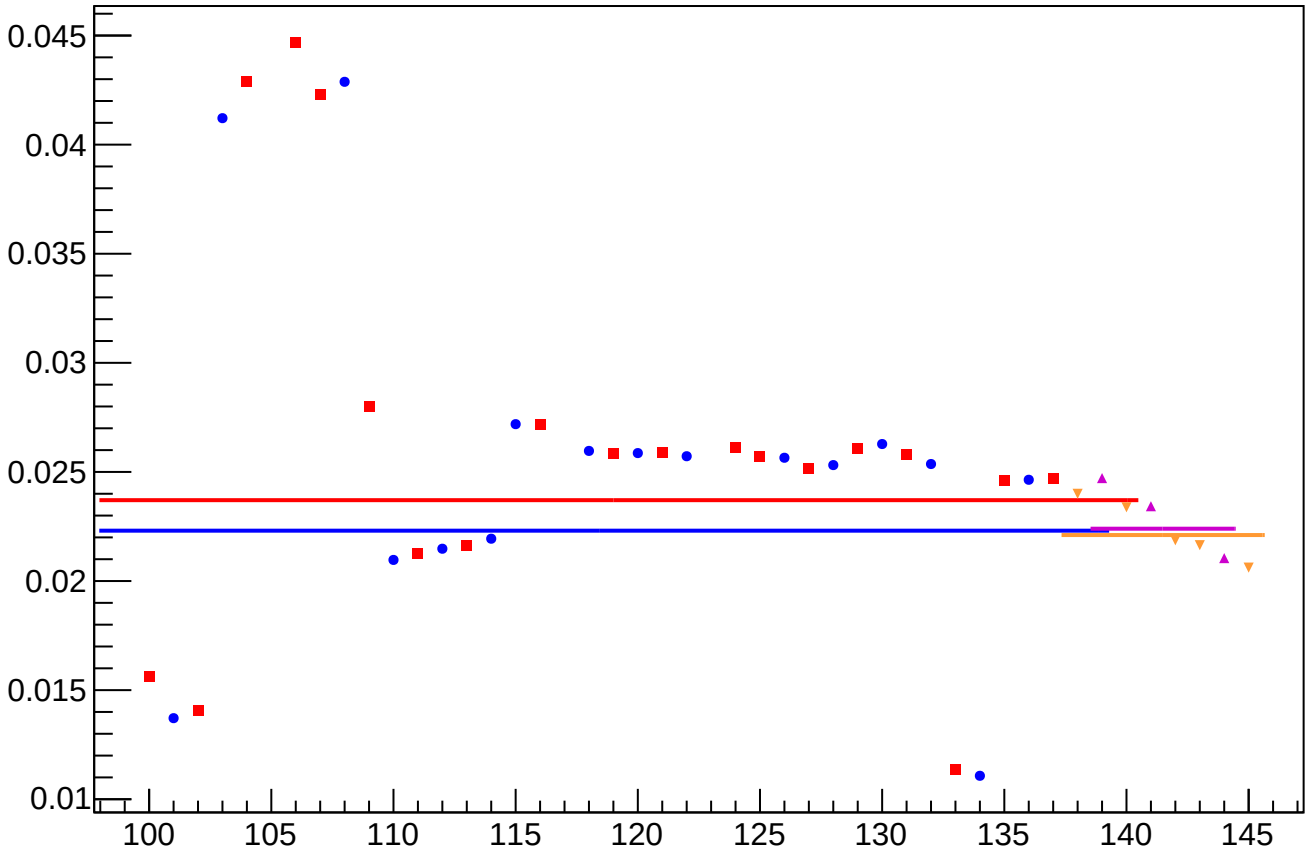
Left: 0.000+/-0.000 $\chi^2$/NDF: 24611.7/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 1163063.5/34

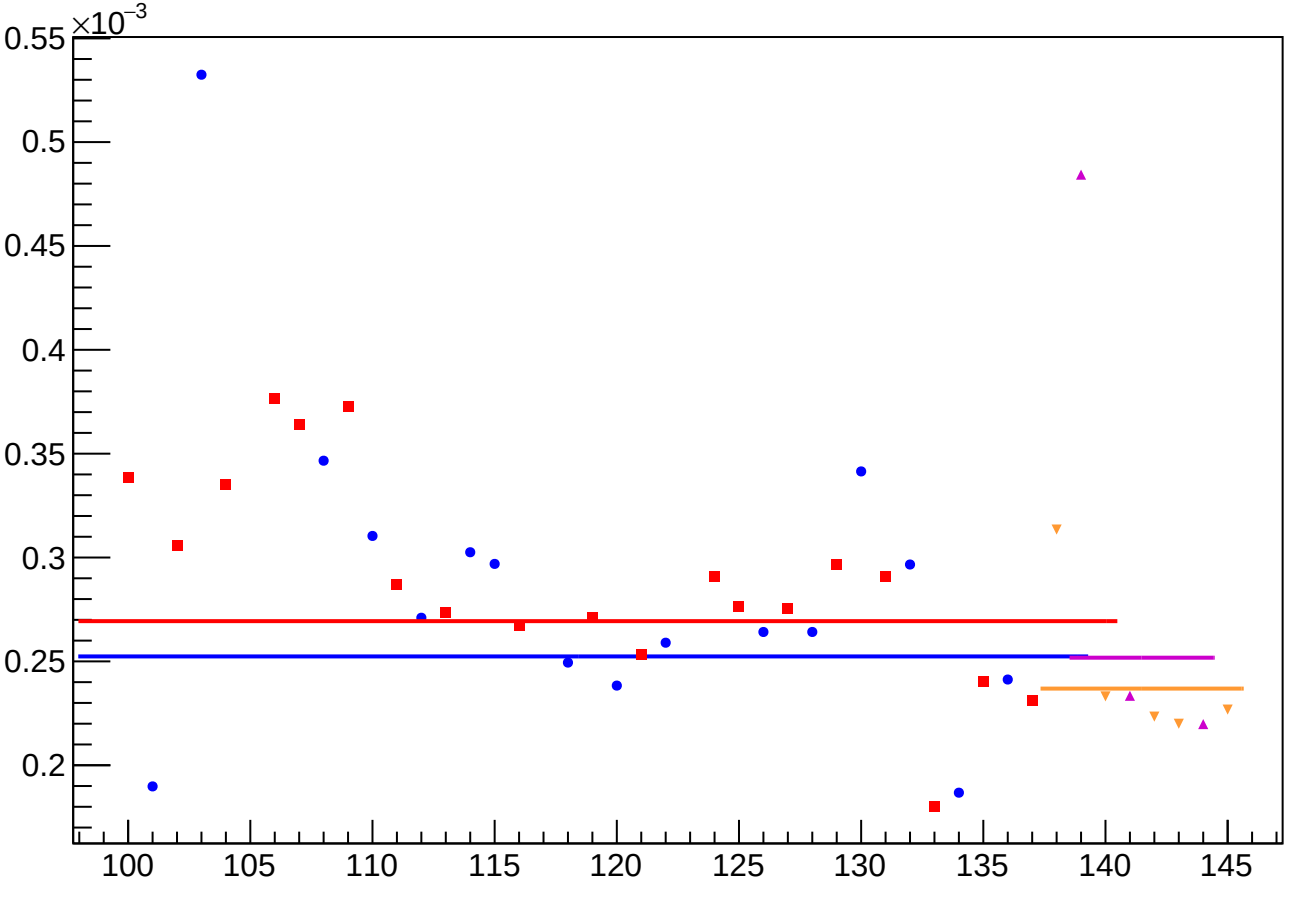
In: 0.000+/-0.000 $\chi^2$/NDF:1087144.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:375561.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 1521385.9/42


yield_atr2_mean vs Slug, Sign Corrected
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
100
105
110
115
120
125
130
135
140
145
Right In: 0.022+/-0.000 χ²/NDF: 5012486114.6/15
Left Out: 0.022+/-0.000 χ²/NDF:78543566.5/4
Right Out: 0.024+/-0.000 χ²/NDF: 5581865088.7/18
Left In: 0.022+/-0.000 χ²/NDF:64616496.8/2
Left: 0.022+/-0.000 χ²/NDF: 144957465.0/7
Right: 0.023+/-0.000 χ²/NDF: 10685664717.3/34
In: 0.022+/-0.000 χ²/NDF:5077311780.9/18
Out: 0.023+/-0.000 χ²/NDF:5747147400.3/23
All: 0.023+/-0.000 χ²/NDF: 10864997069.0/4

# 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:95218.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 446359.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:418453.1/2

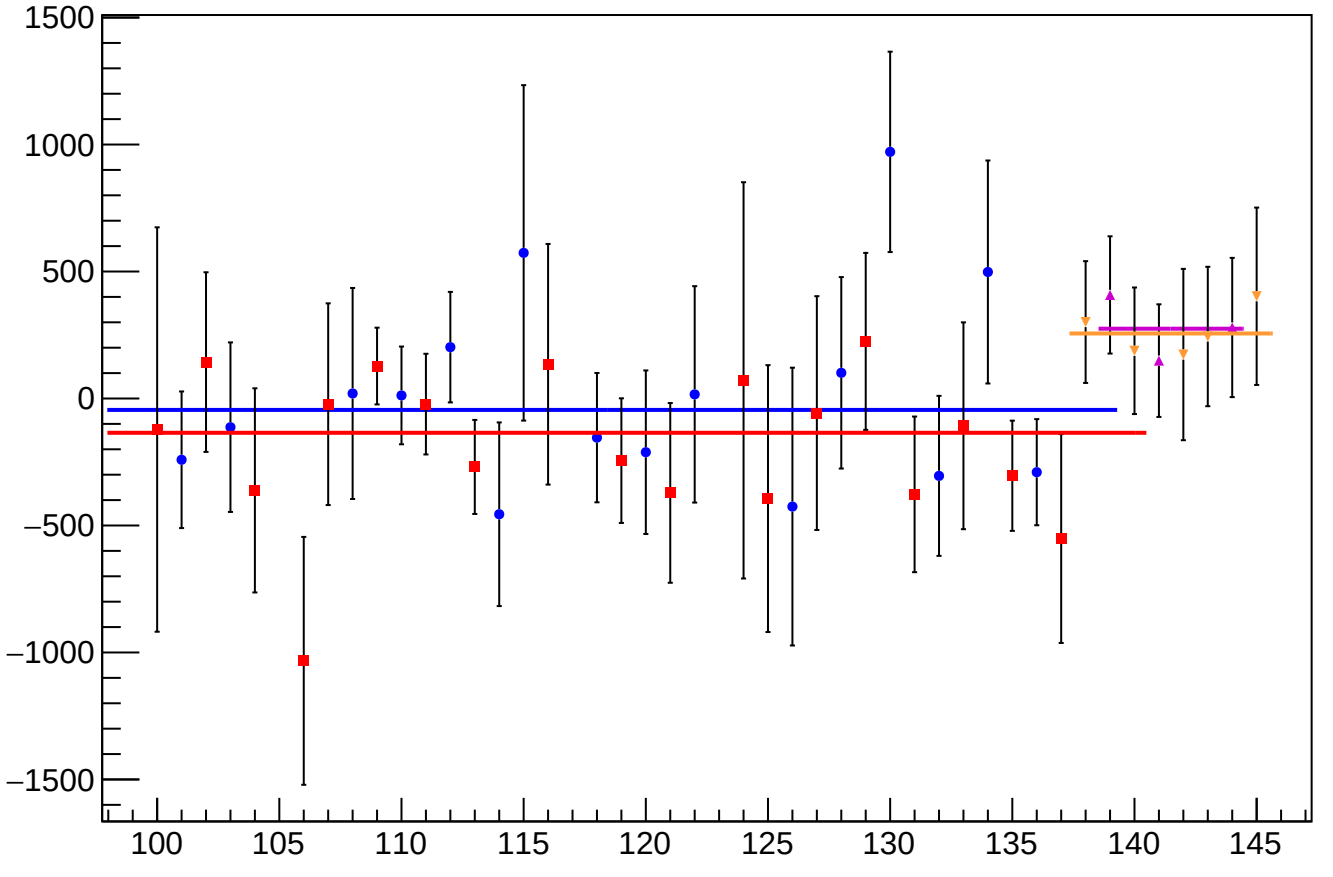
Left: 0.000+/-0.000 $\chi^2$/NDF: 523084.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 1181187.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:1126336.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:613185.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 1742684.8/42




Right In: -44.917+/-76.198 $\chi^2$/NDF: 15.5/15

Left Out: 256.049+/-125.223 $\chi^2$/NDF:0.3/4

Right Out: -134.996+/-68.062 $\chi^2$/NDF: 12.9/18

Left In: 274.873+/-138.122 $\chi^2$/NDF:0.7/2

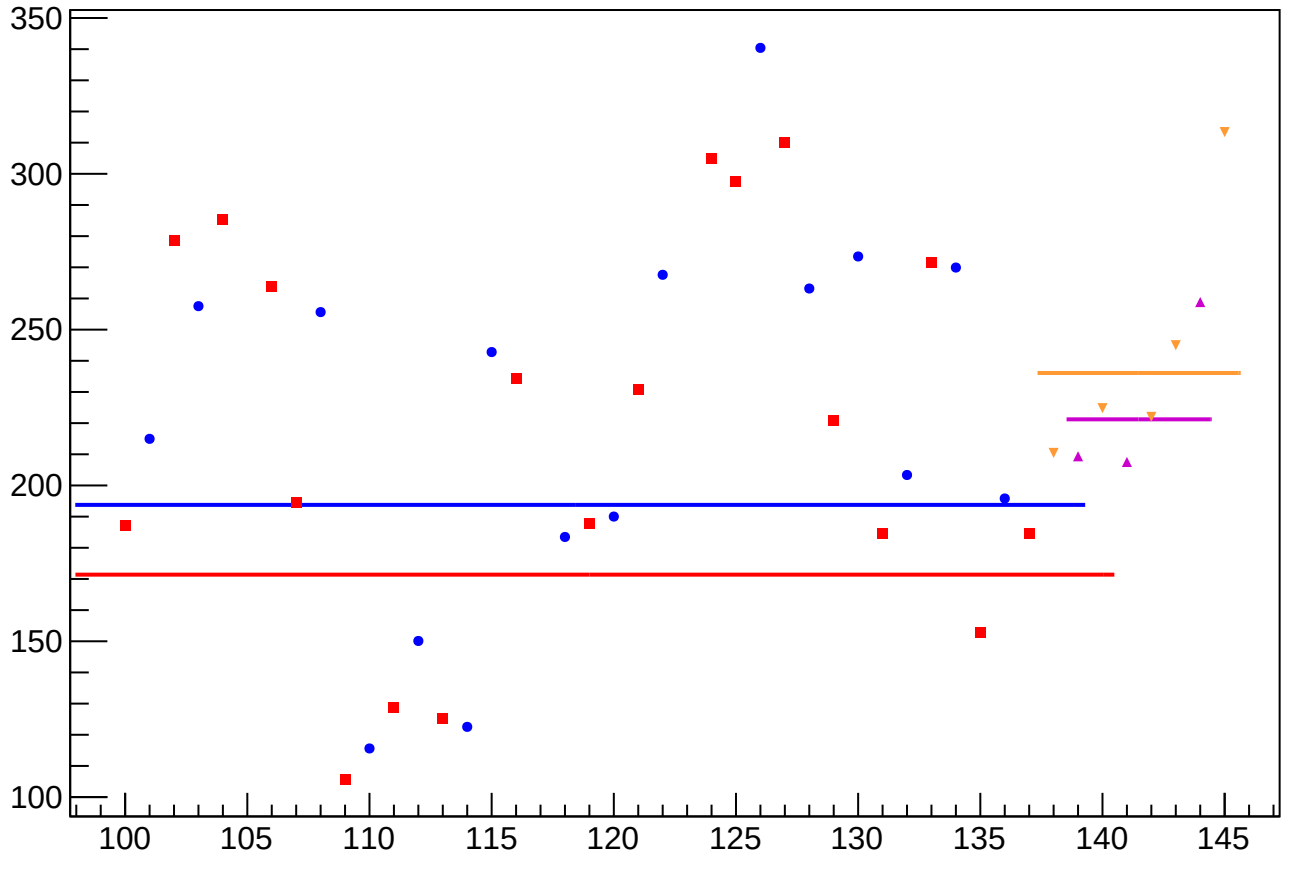
Left: 264.541+/-92.772 $\chi^2$/NDF: 1.0/7

Right: -95.021+/-50.761 $\chi^2$/NDF: 29.2/34

In: 29.700+/-66.719 $\chi^2$/NDF:20.2/18

Out: -45.818+/-59.800 $\chi^2$/NDF:20.8/23

All: -12.177+/-44.531 $\chi^2$/NDF: 41.7/42




Right In: 193.768+/-0.054 $\chi^2$/NDF: 1048095.1/15

Left Out: 236.097+/-0.089 $\chi^2$/NDF:130586.9/4

Right Out: 171.382+/-0.048 $\chi^2$/NDF: 1658079.5/18

Left In: 221.218+/-0.098 $\chi^2$/NDF:50583.0/2

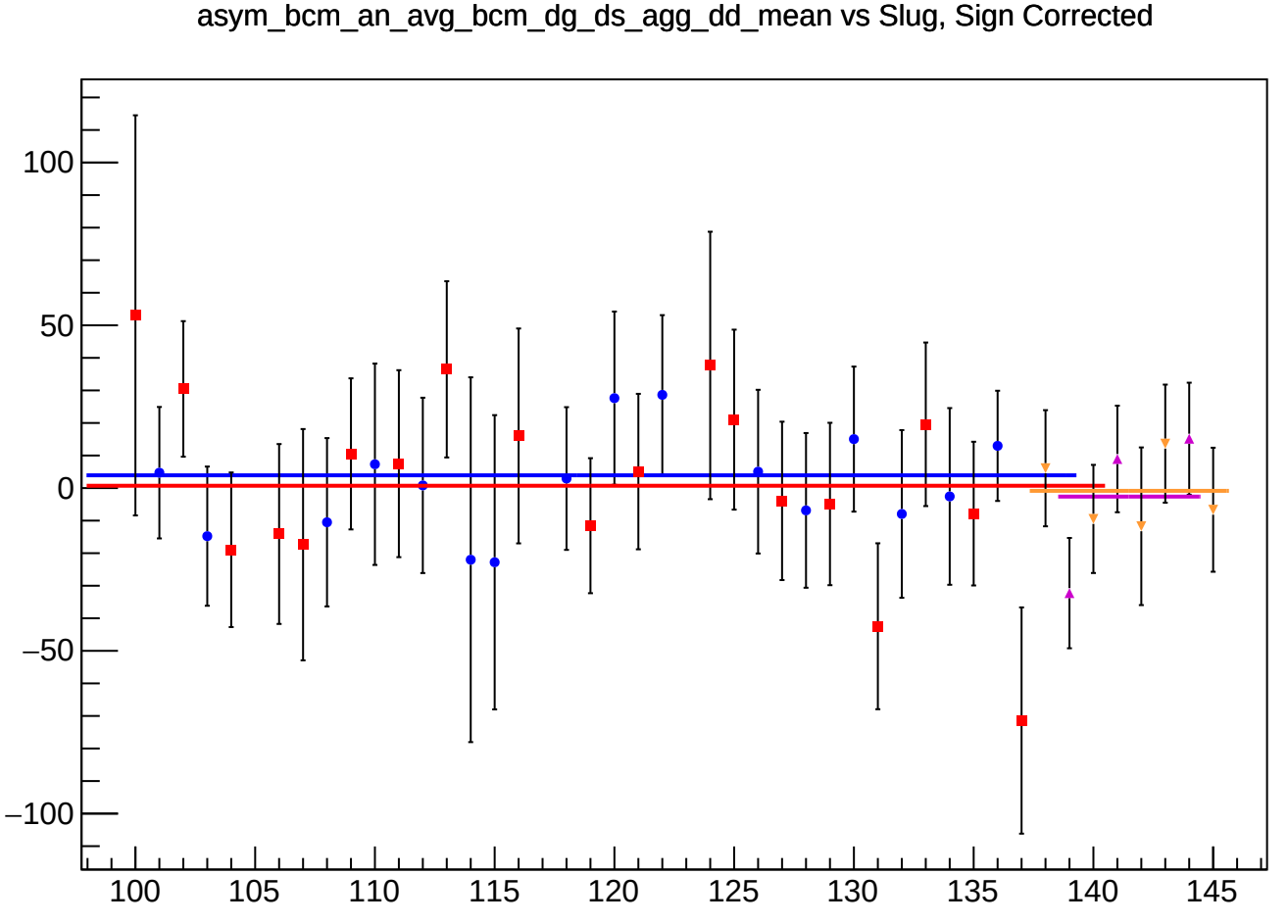
Left: 229.384+/-0.066 $\chi^2$/NDF: 193907.1/7

Right: 181.316+/-0.036 $\chi^2$/NDF: 2802189.0/34

In: 200.173+/-0.047 $\chi^2$/NDF:1159241.7/18

Out: 186.140+/-0.042 $\chi^2$/NDF:2201007.0/23

All: 192.391+/-0.031 $\chi^2$/NDF: 3409309.9/42




Right In: 3.923+/-6.172 $\chi^2$/NDF: 4.5/15

Left Out: -0.849+/-8.373 $\chi^2$/NDF:1.4/4

Right Out: 0.714+/-6.077 $\chi^2$/NDF: 15.9/18

Left In: -2.619+/-9.715 $\chi^2$/NDF:4.6/2

Left: -1.603+/-6.342 $\chi^2$/NDF: 6.0/7

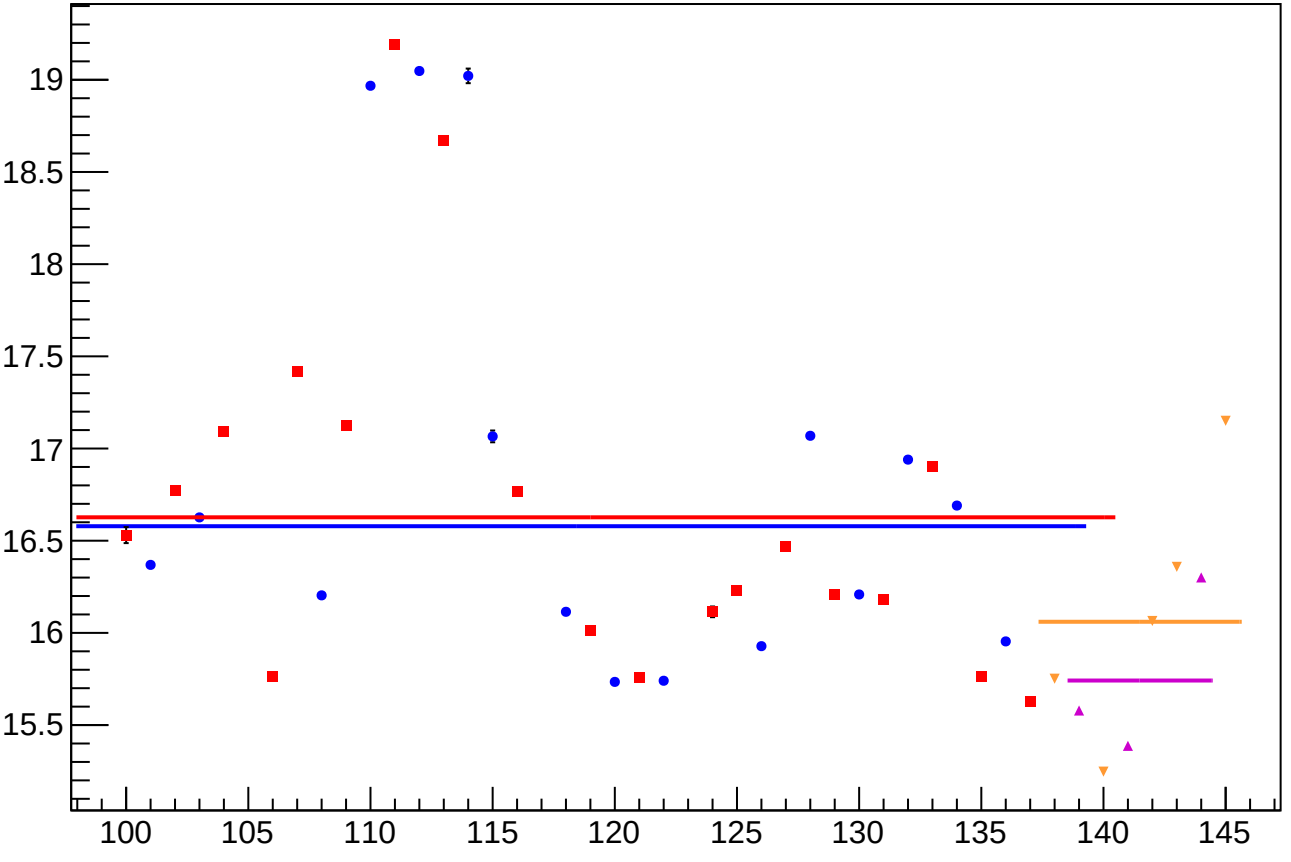
Right: 2.294+/-4.330 $\chi^2$/NDF: 20.5/34

In: 2.042+/-5.209 $\chi^2$/NDF:9.4/18

Out: 0.175+/-4.918 $\chi^2$/NDF:17.3/23

All: 1.055+/-3.576 $\chi^2$/NDF: 26.8/42

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: 16.060+/-0.006 $\chi^2$/NDF:12477.9/4

Right Out: 16.627+/-0.004 $\chi^2$/NDF: 43461.8/18

Left In: 15.742+/-0.007 $\chi^2$/NDF:3233.9/2

Left: 15.924+/-0.004 $\chi^2$/NDF: 16947.0/7

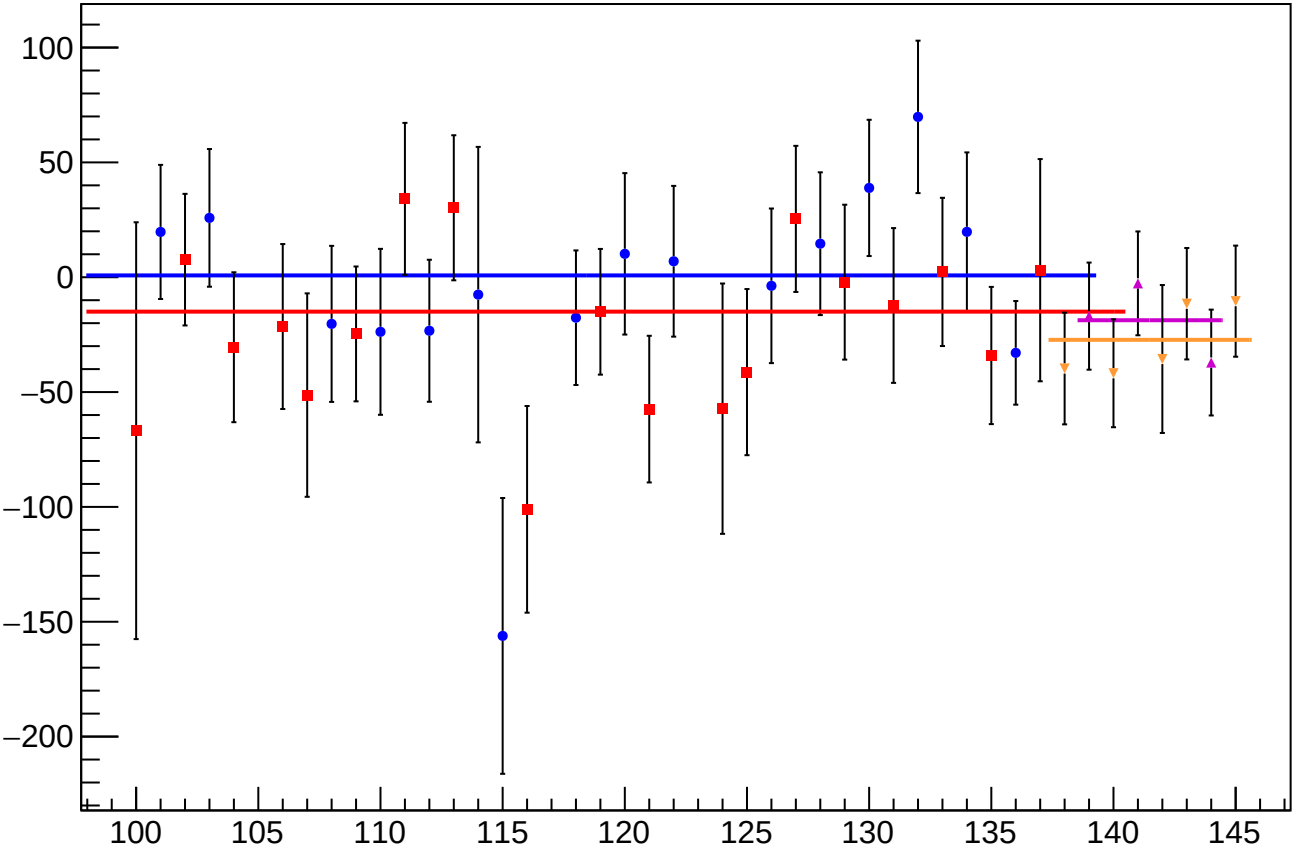
Right: 16.603+/-0.003 $\chi^2$/NDF: 88099.6/34

In: 16.338+/-0.004 $\chi^2$/NDF:58386.2/18

Out: 16.431+/-0.003 $\chi^2$/NDF:61938.1/23

All: 16.387+/-0.003 $\chi^2$/NDF: 120664.8/42

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected




Right In: 0.790+/-8.125 $\chi^2$/NDF: 18.7/15

Left Out: -27.259+/-11.269 $\chi^2$/NDF:1.6/4

Right Out: -14.981+/-7.953 $\chi^2$/NDF: 15.4/18

Left In: -18.725+/-13.269 $\chi^2$/NDF:1.1/2

Left: -23.683+/-8.589 $\chi^2$/NDF: 3.0/7

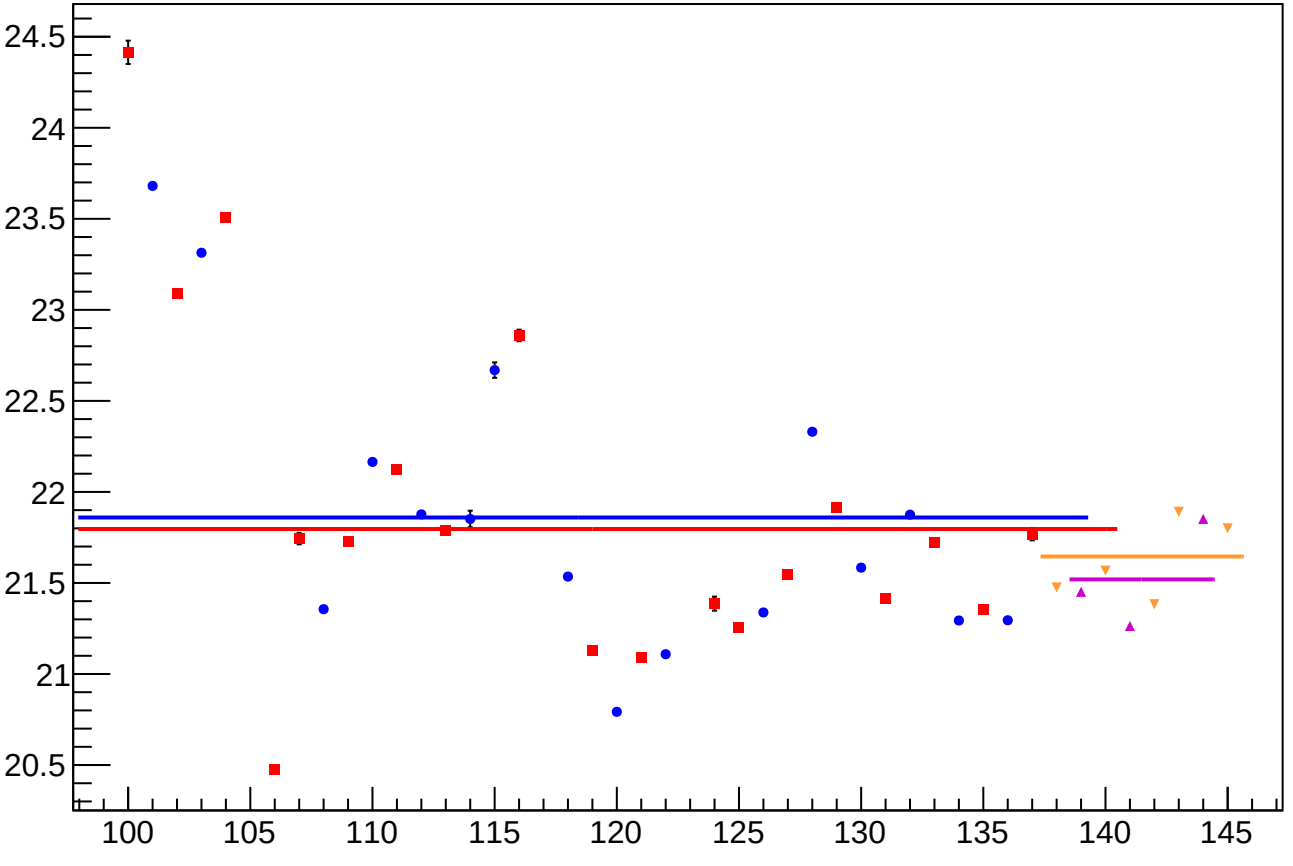
Right: -7.264+/-5.683 $\chi^2$/NDF: 36.0/34

In: -4.532+/-6.929 $\chi^2$/NDF:21.4/18

Out: -19.064+/-6.498 $\chi^2$/NDF:17.8/23

All: -12.264+/-4.740 $\chi^2$/NDF: 41.5/42

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: 21.645+/-0.008 $\chi^2$/NDF:538.7/4

Right Out: 21.796+/-0.006 $\chi^2$/NDF: 18861.3/18

Left In: 21.520+/-0.009 $\chi^2$/NDF:690.0/2

Left: 21.593+/-0.006 $\chi^2$/NDF: 1333.0/7

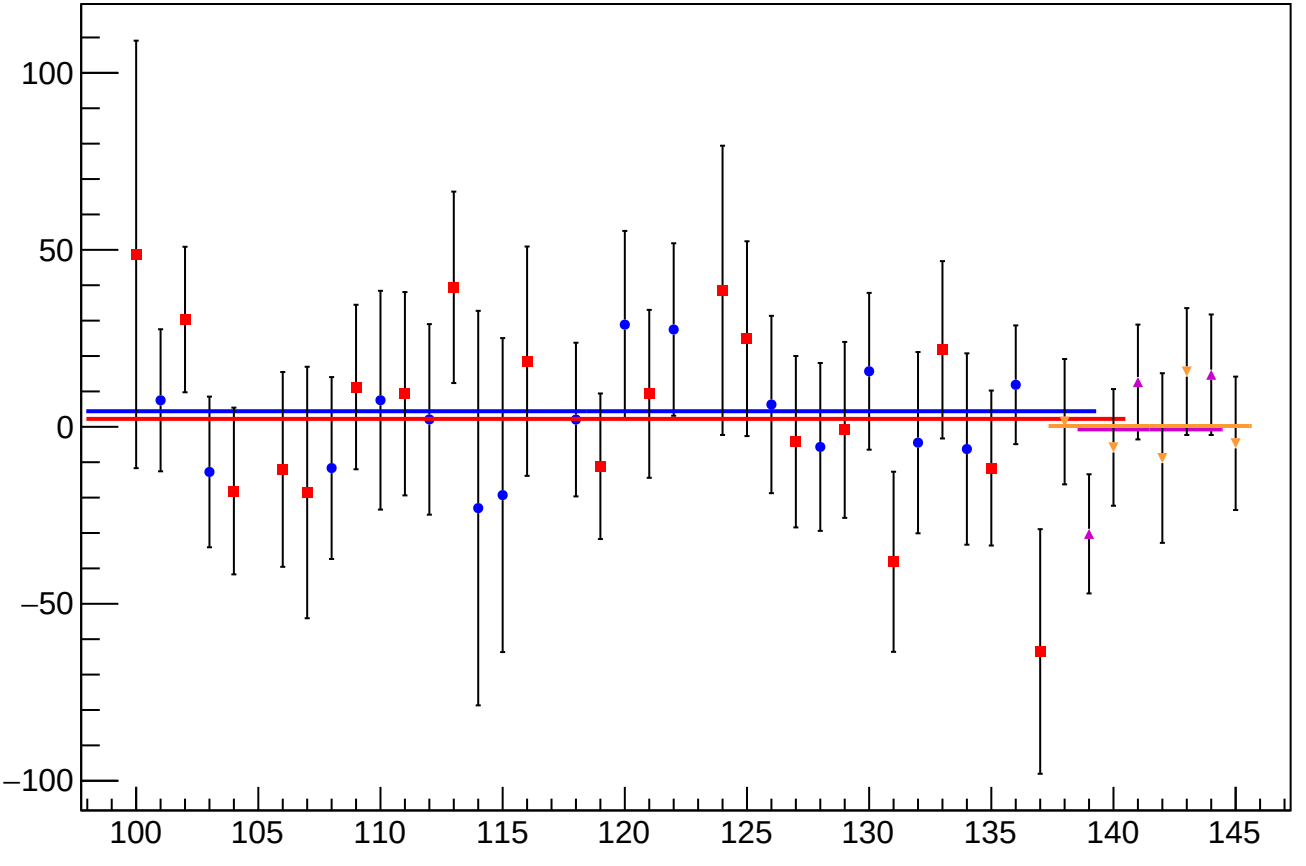
Right: 21.827+/-0.004 $\chi^2$/NDF: 38391.5/34

In: 21.767+/-0.005 $\chi^2$/NDF:21113.2/18

Out: 21.746+/-0.005 $\chi^2$/NDF:19639.5/23

All: 21.756+/-0.003 $\chi^2$/NDF: 40762.3/42

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: 0.230+/-8.293 $\chi^2$/NDF:1.1/4

Right Out: 2.244+/-6.042 $\chi^2$/NDF: 15.4/18

Left In: -0.727+/-9.633 $\chi^2$/NDF:4.6/2

Left: -0.177+/-6.285 $\chi^2$/NDF: 5.7/7

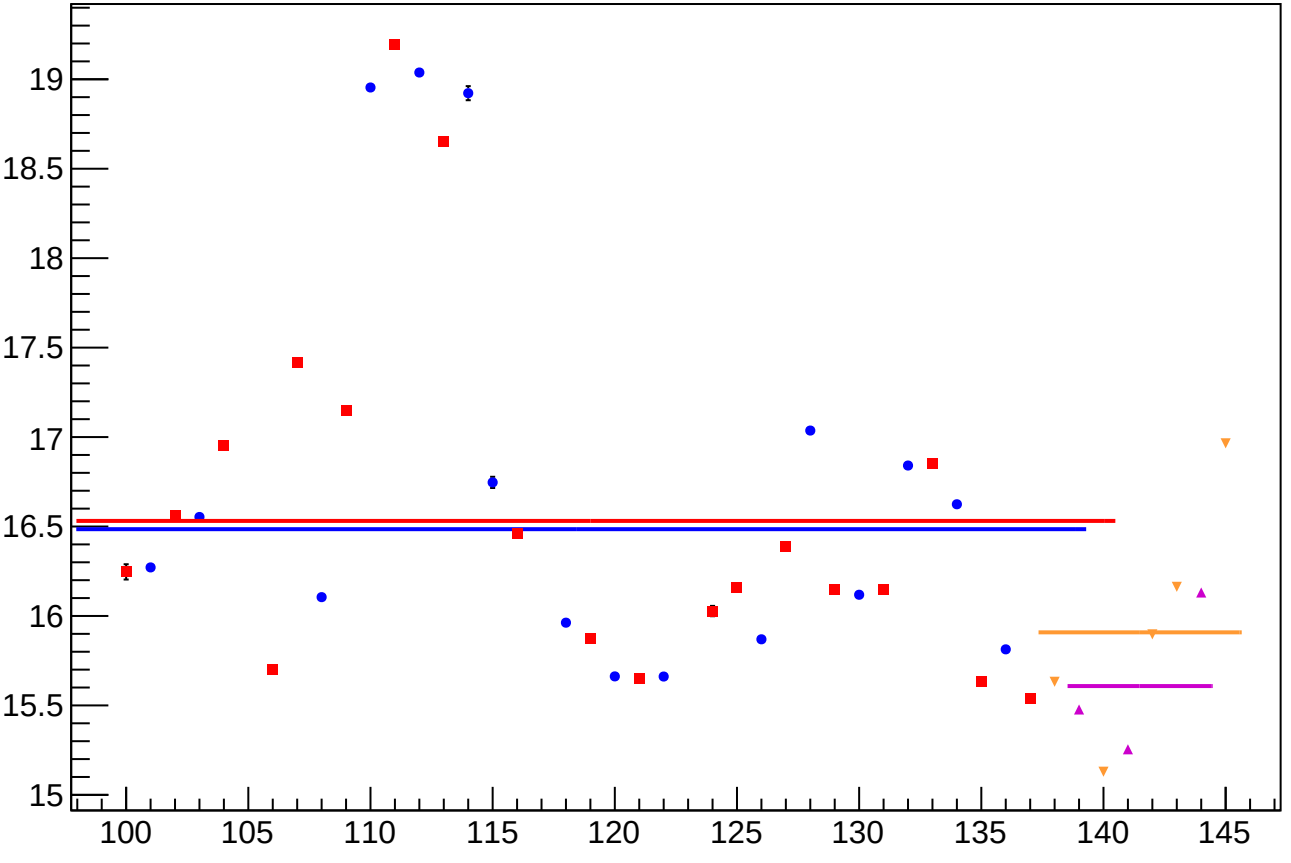
Right: 3.307+/-4.306 $\chi^2$/NDF: 19.7/34

In: 2.923+/-5.176 $\chi^2$/NDF:9.1/18

Out: 1.545+/-4.884 $\chi^2$/NDF:16.5/23

All: 2.194+/-3.552 $\chi^2$/NDF: 25.6/42

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: 15.908+/-0.006 $\chi^2$/NDF:11646.9/4

Right Out: 16.531+/-0.004 $\chi^2$/NDF: 46474.0/18

Left In: 15.608+/-0.007 $\chi^2$/NDF:2956.9/2

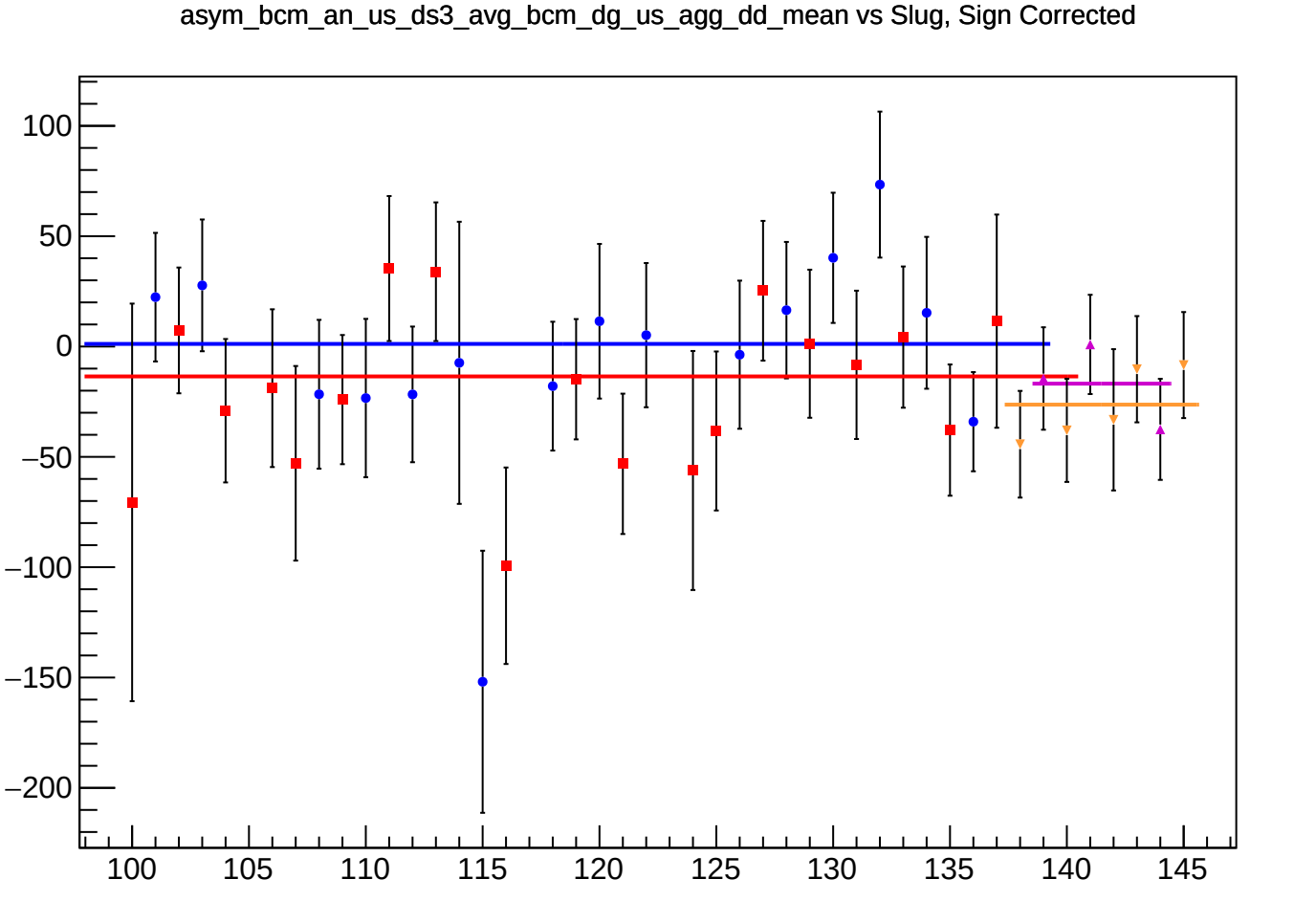
Left: 15.781+/-0.004 $\chi^2$/NDF: 15719.9/7

Right: 16.509+/-0.003 $\chi^2$/NDF: 93717.6/34

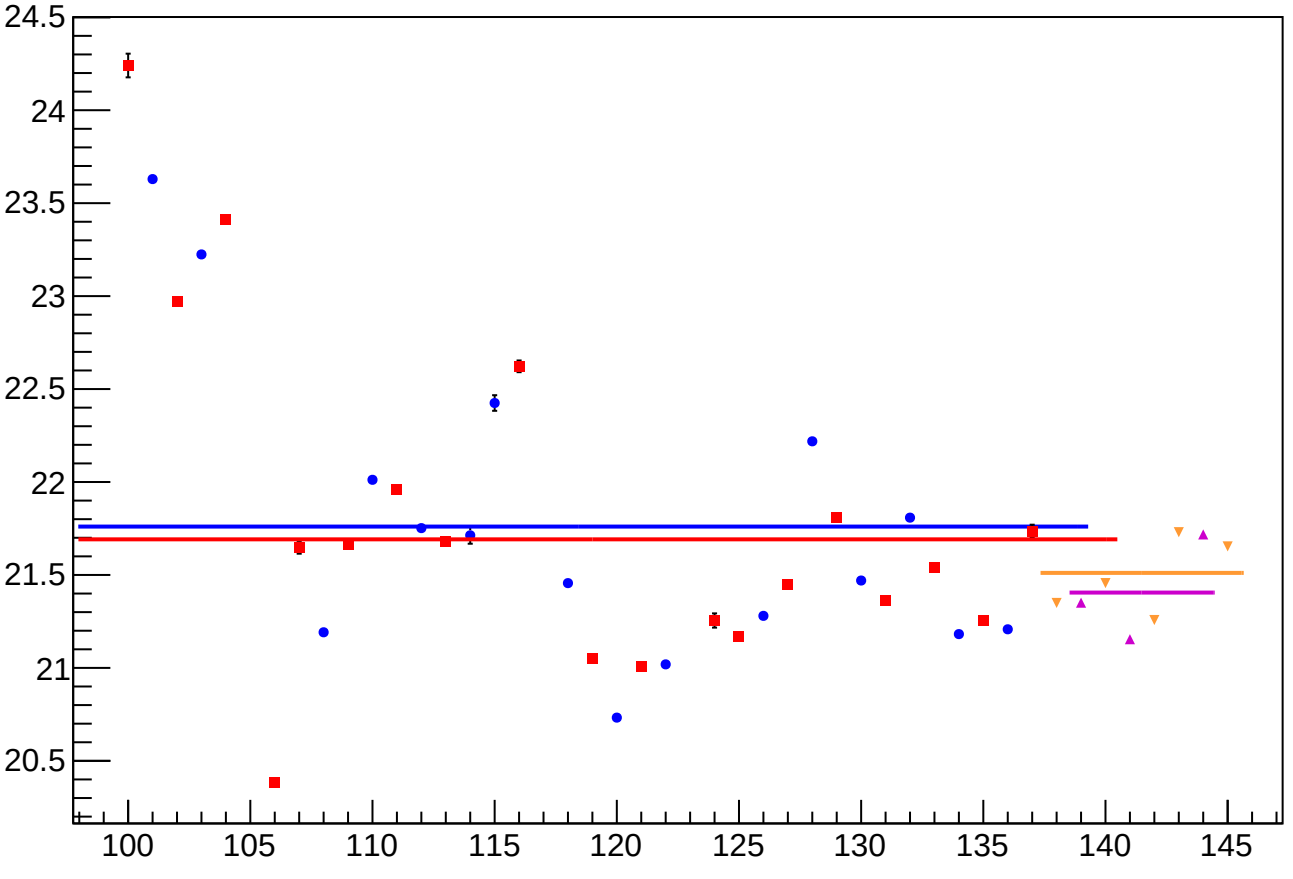
In: 16.232+/-0.004 $\chi^2$/NDF:61932.8/18

Out: 16.315+/-0.003 $\chi^2$/NDF:65491.4/23

All: 16.276+/-0.003 $\chi^2$/NDF: 127698.7/42


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected
100
50
0
−50
−100
−150
−200
100
105
110
115
120
125
130
135
140
145
Right In: 1.185+/-8.088 χ²/NDF: 19.4/15
Left Out: -26.332+/-11.198 χ²/NDF:1.8/4
Right Out: -13.549+/-7.915 χ²/NDF: 15.9/18
Left In: -16.828+/-13.198 χ²/NDF:1.5/2
Left: -22.354+/-8.539 χ²/NDF: 3.6/7
Right: -6.341+/-5.657 χ²/NDF: 37.0/34
In: -3.733+/-6.896 χ²/NDF:22.2/18
Out: -17.807+/-6.464 χ²/NDF:18.7/23
All: -11.225+/-4.716 χ²/NDF: 43.1/42

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: 21.511+/-0.008 $\chi^2$/NDF:461.6/4

Right Out: 21.692+/-0.006 $\chi^2$/NDF: 18330.7/18

Left In: 21.405+/-0.009 $\chi^2$/NDF:633.1/2

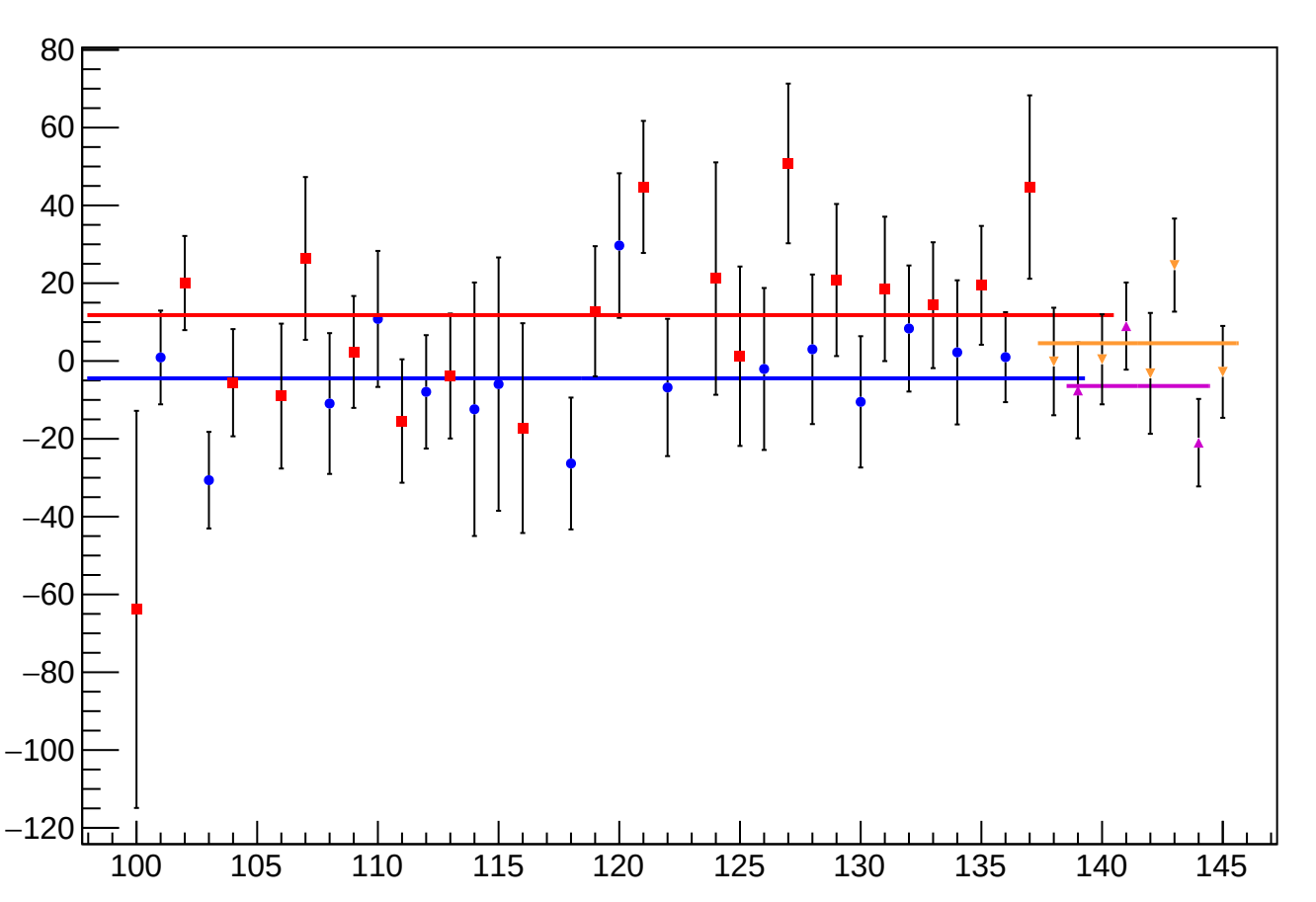
Left: 21.467+/-0.006 $\chi^2$/NDF: 1169.6/7

Right: 21.725+/-0.004 $\chi^2$/NDF: 38150.0/34

In: 21.663+/-0.005 $\chi^2$/NDF:21431.1/18

Out: 21.631+/-0.005 $\chi^2$/NDF:19138.7/23

All: 21.646+/-0.003 $\chi^2$/NDF: 40592.5/42




Right In: -4.440+/-4.131 $\chi^2$/NDF: 12.0/15

Left Out: 4.573+/-5.681 $\chi^2$/NDF:3.7/4

Right Out: 11.807+/-4.097 $\chi^2$/NDF: 21.7/18

Left In: -6.419+/-6.670 $\chi^2$/NDF:3.6/2

Left: -0.048+/-4.325 $\chi^2$/NDF: 8.8/7

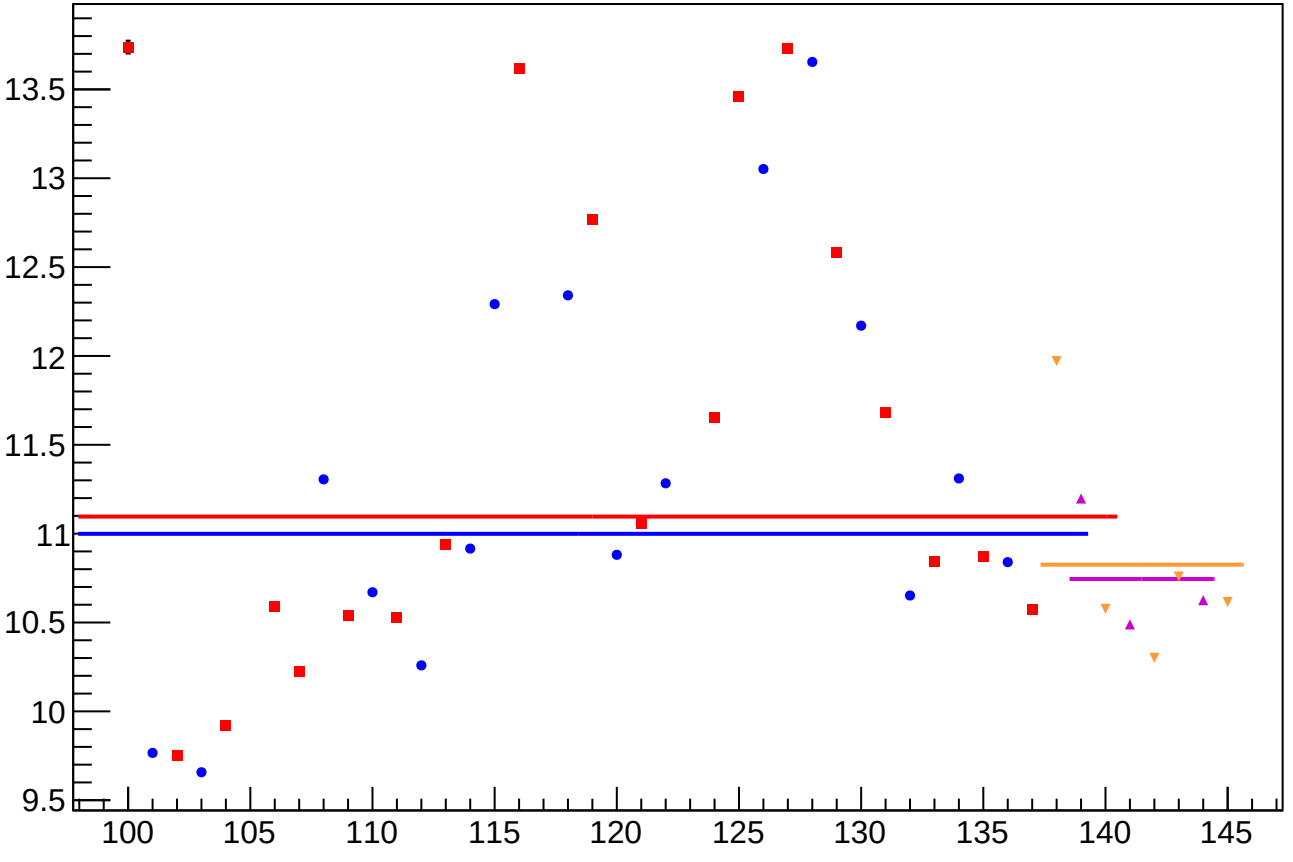
Right: 3.749+/-2.909 $\chi^2$/NDF: 41.5/34

In: -4.989+/-3.512 $\chi^2$/NDF:15.6/18

Out: 9.331+/-3.323 $\chi^2$/NDF:26.5/23

All: 2.566+/-2.414 $\chi^2$/NDF: 50.9/42

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: 10.825+/-0.004 $\chi^2$/NDF:17628.9/4

Right Out: 11.096+/-0.003 $\chi^2$/NDF: 162908.7/18

Left In: 10.745+/-0.005 $\chi^2$/NDF:3970.0/2

Left: 10.792+/-0.003 $\chi^2$/NDF: 21767.0/7

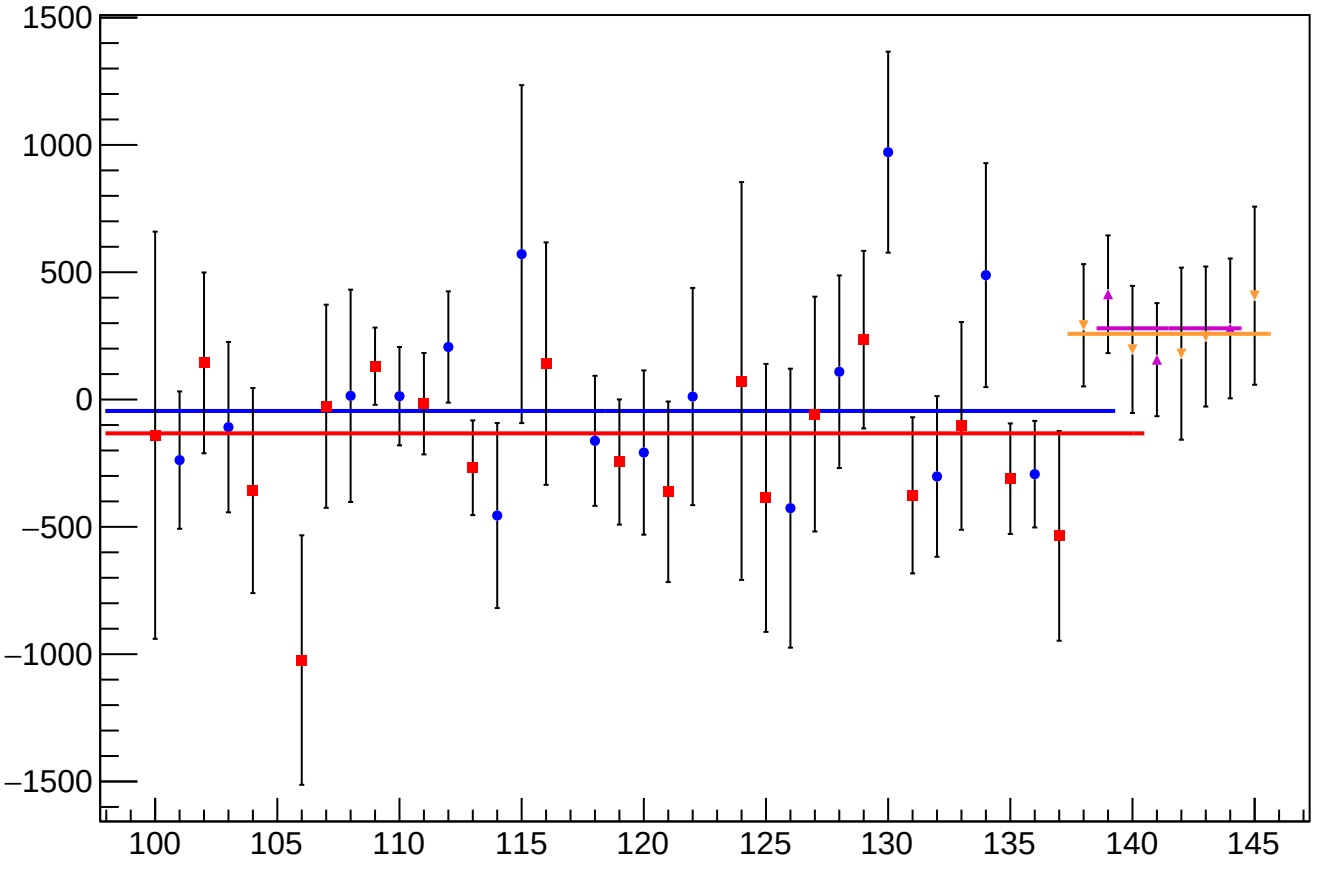
Right: 11.048+/-0.002 $\chi^2$/NDF: 299622.8/34

In: 10.929+/-0.002 $\chi^2$/NDF:142225.4/18

Out: 11.003+/-0.002 $\chi^2$/NDF:183522.5/23

All: 10.968+/-0.002 $\chi^2$/NDF: 326225.6/42

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected




Right In: -44.797+/-76.424 $\chi^2$/NDF: 15.4/15

Left Out: 258.130+/-125.440 $\chi^2$/NDF:0.3/4

Right Out: -132.730+/-68.270 $\chi^2$/NDF: 12.9/18

Left In: 279.765+/-138.349 $\chi^2$/NDF:0.6/2

Left: 267.891+/-92.929 $\chi^2$/NDF: 1.0/7

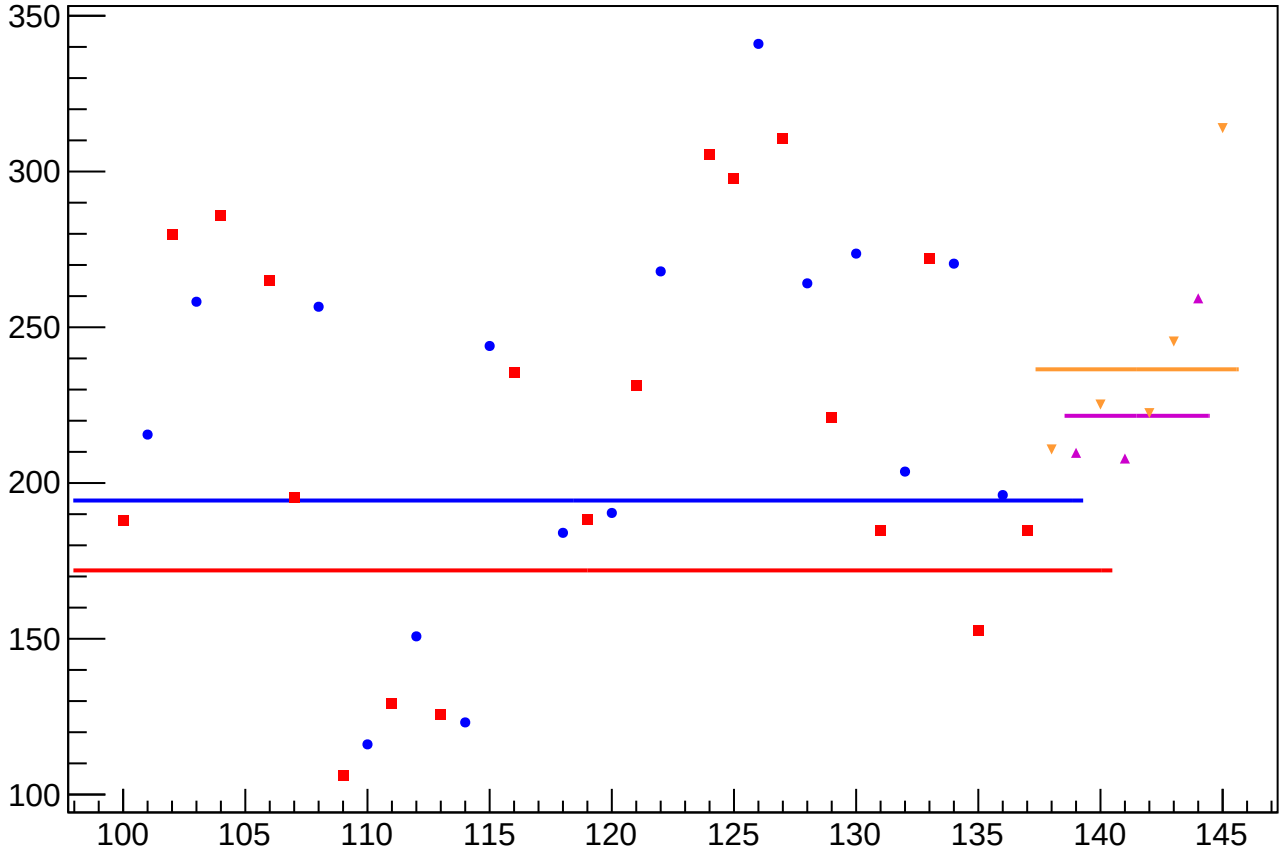
Right: -93.703+/-50.914 $\chi^2$/NDF: 29.0/34

In: 31.085+/-66.896 $\chi^2$/NDF:20.3/18

Out: -43.413+/-59.964 $\chi^2$/NDF:20.7/23

All: -10.222+/-44.651 $\chi^2$/NDF: 41.6/42

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: 236.504+/-0.089 $\chi^2$/NDF:130628.1/4

Right Out: 171.949+/-0.048 $\chi^2$/NDF: 1651343.7/18

Left In: 221.579+/-0.098 $\chi^2$/NDF:50628.5/2

Left: 229.770+/-0.066 $\chi^2$/NDF: 194030.9/7

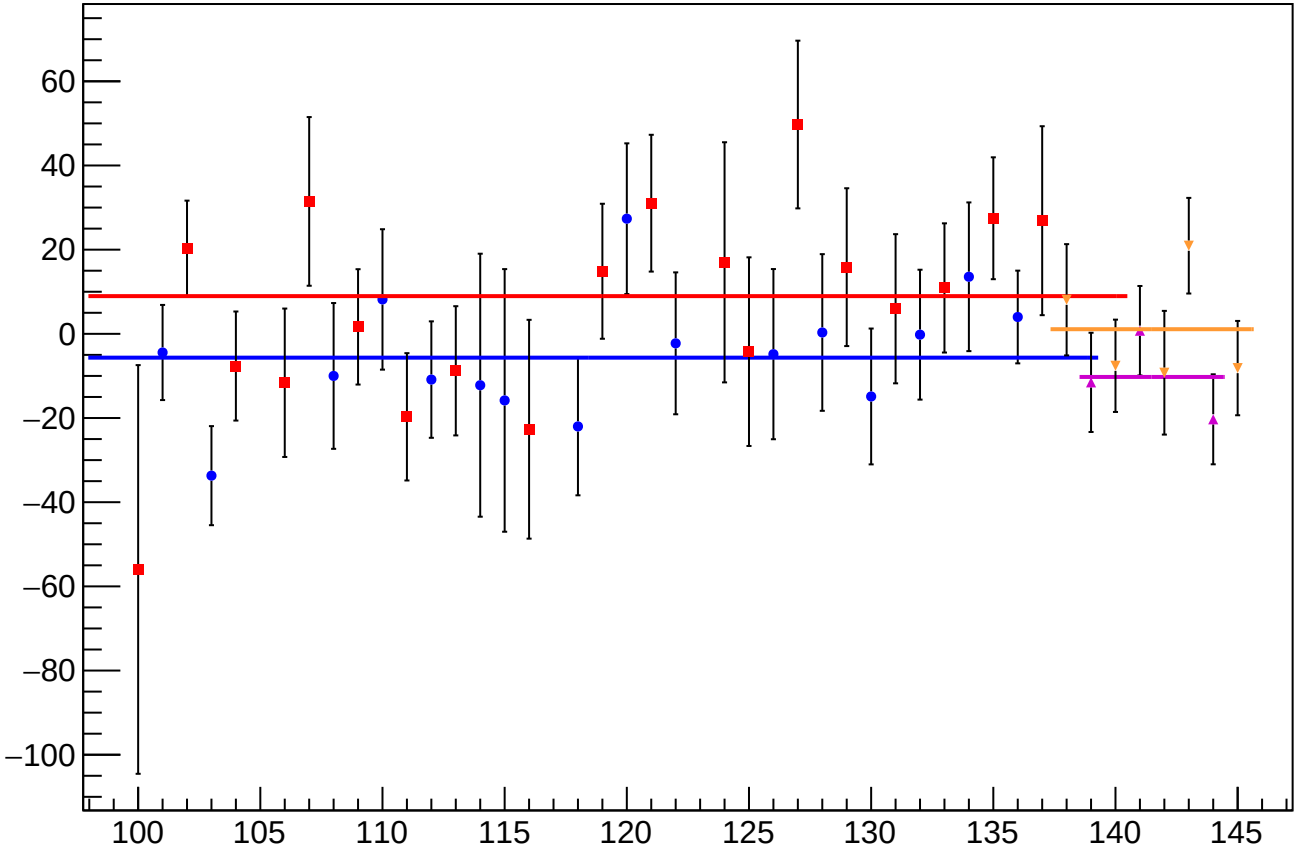
Right: 181.907+/-0.036 $\chi^2$/NDF: 2789239.1/34

In: 200.743+/-0.047 $\chi^2$/NDF:1151859.3/18

Out: 186.701+/-0.042 $\chi^2$/NDF:2190622.4/23

All: 192.957+/-0.032 $\chi^2$/NDF: 3391347.5/42

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected




Right In: -5.657+/-3.939 $\chi^2$/NDF: 13.7/15

Left Out: 1.101+/-5.393 $\chi^2$/NDF:5.1/4

Right Out: 8.960+/-3.901 $\chi^2$/NDF: 22.8/18

Left In: -10.242+/-6.350 $\chi^2$/NDF:2.0/2

Left: -3.653+/-4.111 $\chi^2$/NDF: 9.0/7

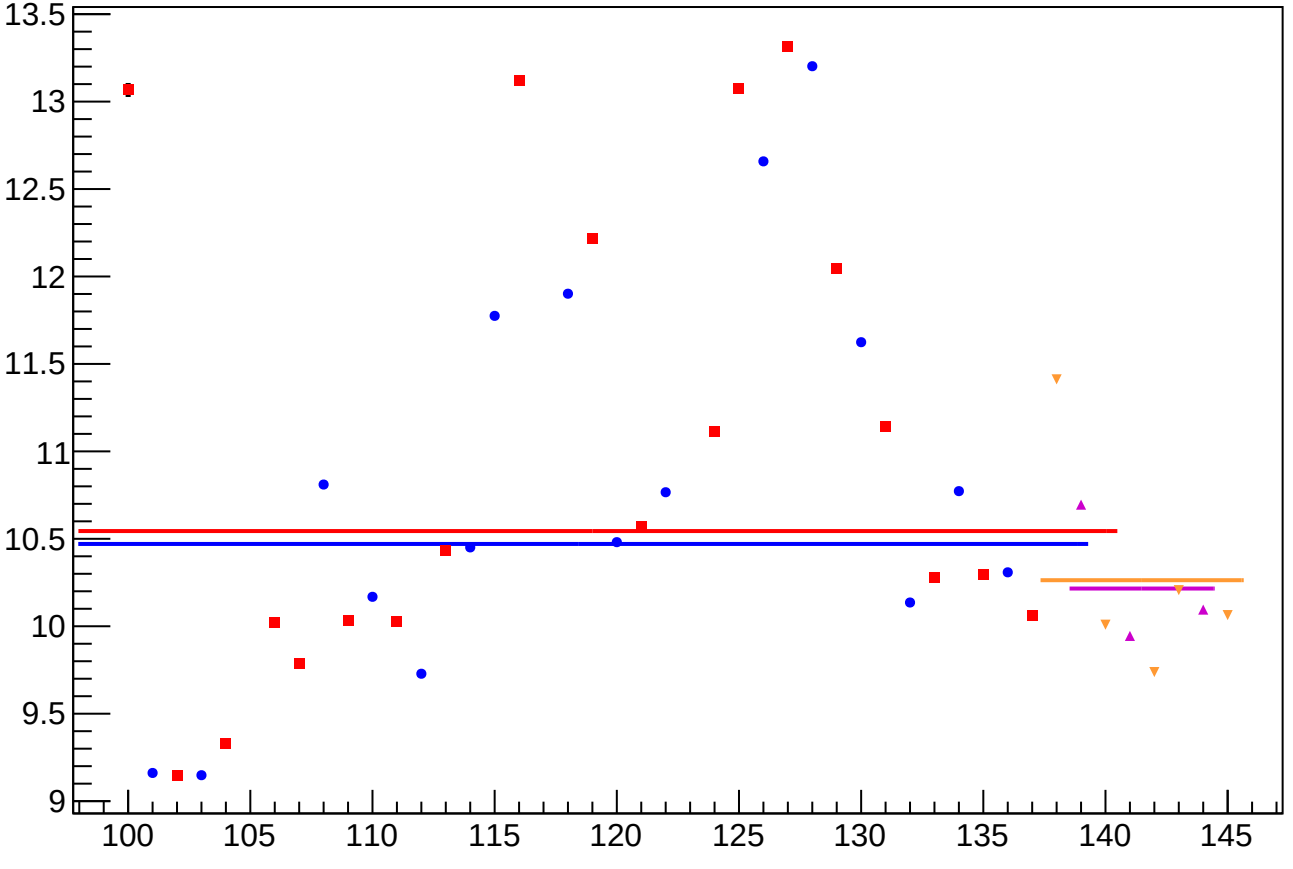
Right: 1.723+/-2.772 $\chi^2$/NDF: 43.4/34

In: -6.931+/-3.347 $\chi^2$/NDF:16.0/18

Out: 6.261+/-3.161 $\chi^2$/NDF:29.3/23

All: 0.043+/-2.298 $\chi^2$/NDF: 53.6/42

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: 10.263+/-0.004 $\chi^2$/NDF:19419.0/4

Right Out: 10.544+/-0.003 $\chi^2$/NDF: 186780.3/18

Left In: 10.216+/-0.004 $\chi^2$/NDF:4865.1/2

Left: 10.243+/-0.003 $\chi^2$/NDF: 24349.7/7

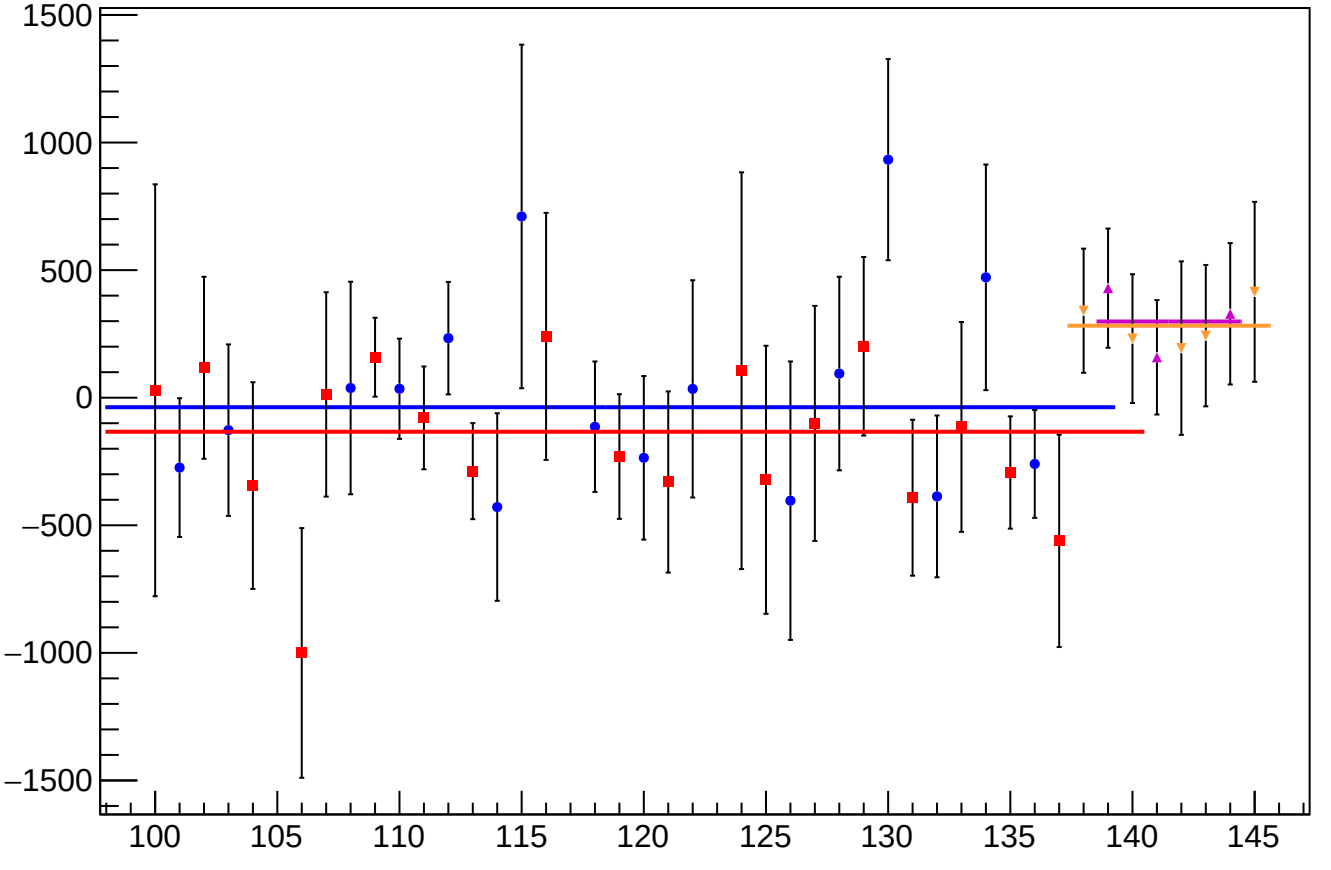
Right: 10.508+/-0.002 $\chi^2$/NDF: 344500.1/34

In: 10.400+/-0.002 $\chi^2$/NDF:164559.4/18

Out: 10.448+/-0.002 $\chi^2$/NDF:209764.6/23

All: 10.425+/-0.002 $\chi^2$/NDF: 374542.3/42

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -37.241+/-76.915 $\chi^2$/NDF: 15.6/15

Left Out: 282.165+/-126.648 $\chi^2$/NDF:0.3/4

Right Out: -133.386+/-68.885 $\chi^2$/NDF: 12.9/18

Left In: 298.665+/-139.697 $\chi^2$/NDF:0.7/2

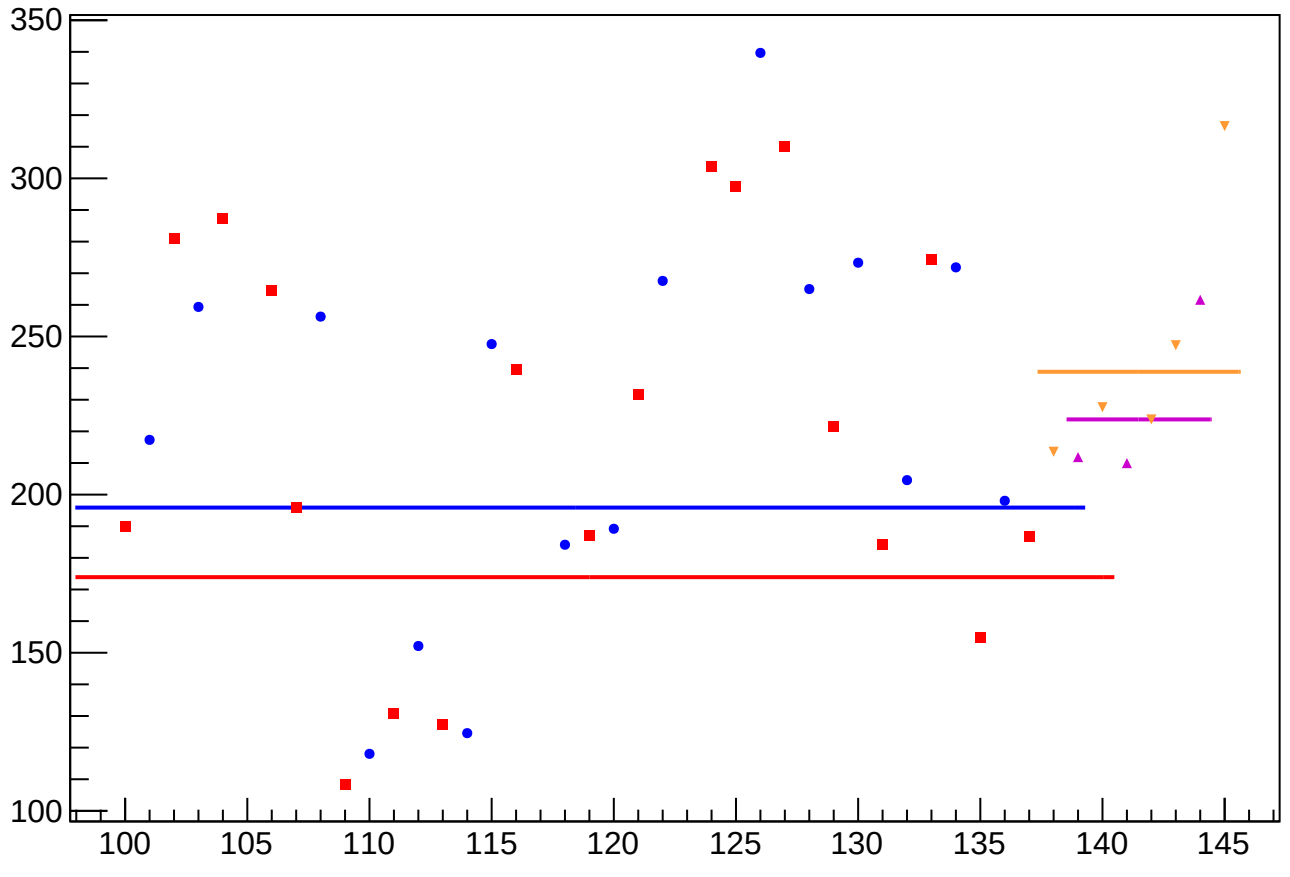
Left: 289.608+/-93.828 $\chi^2$/NDF: 1.1/7

Right: -90.593+/-51.314 $\chi^2$/NDF: 29.4/34

In: 40.899+/-67.378 $\chi^2$/NDF:20.8/18

Out: -38.515+/-60.513 $\chi^2$/NDF:21.5/23

All: -3.058+/-45.021 $\chi^2$/NDF: 43.1/42




Right In: 195.900+/-0.054 $\chi^2$/NDF: 1011012.3/15

Left Out: 238.843+/-0.090 $\chi^2$/NDF:128361.6/4

Right Out: 173.901+/-0.049 $\chi^2$/NDF: 1599608.1/18

Left In: 223.779+/-0.099 $\chi^2$/NDF:50100.8/2

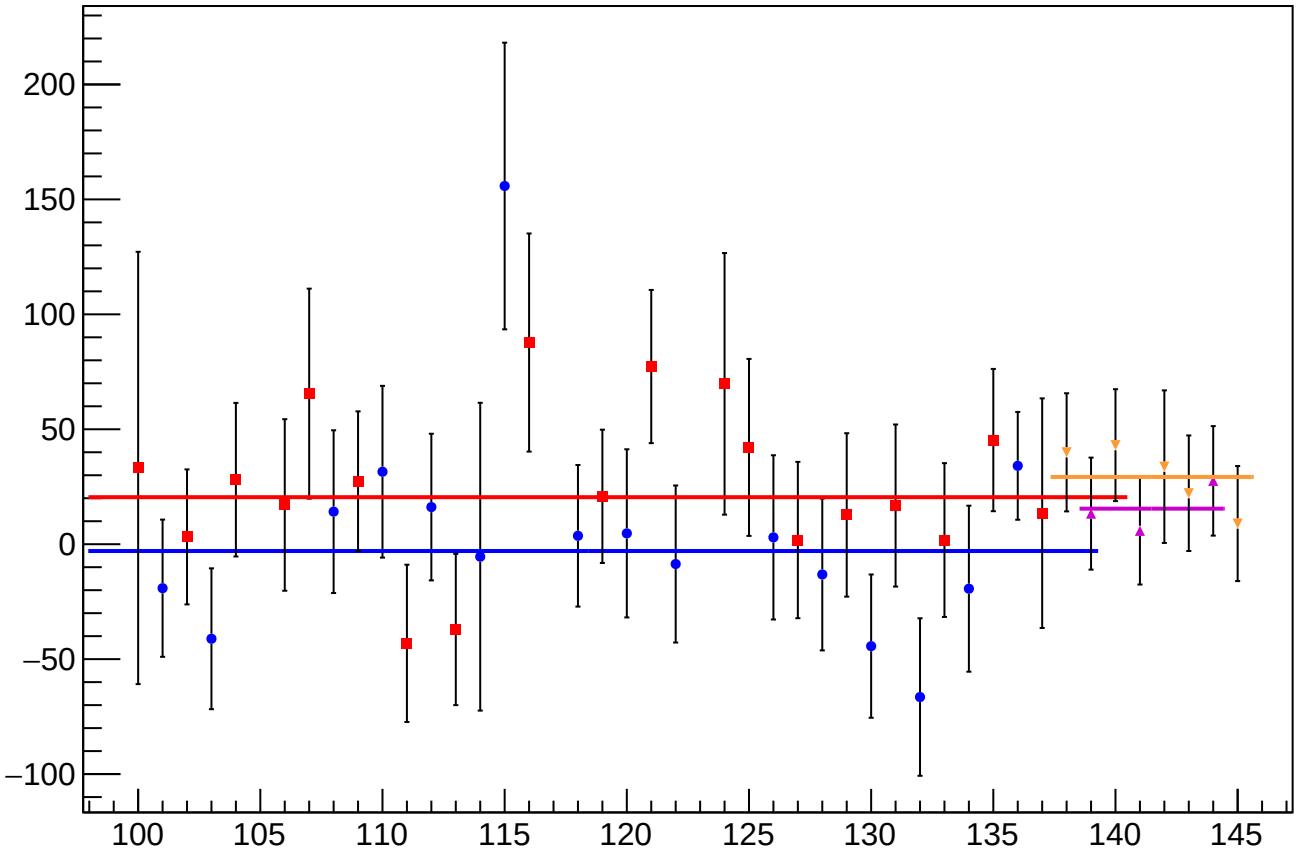
Left: 232.047+/-0.066 $\chi^2$/NDF: 191227.2/7

Right: 183.693+/-0.036 $\chi^2$/NDF: 2701402.5/34

In: 202.385+/-0.048 $\chi^2$/NDF:1122237.6/18

Out: 188.728+/-0.043 $\chi^2$/NDF:2133780.5/23

All: 194.825+/-0.032 $\chi^2$/NDF: 3301503.0/42




Right In: -2.967+/-8.454 $\chi^2$/NDF: 17.9/15

Left Out: 29.260+/-11.711 $\chi^2$/NDF:1.3/4

Right Out: 20.457+/-8.292 $\chi^2$/NDF: 15.3/18

Left In: 15.464+/-13.764 $\chi^2$/NDF:0.4/2

Left: 23.467+/-8.920 $\chi^2$/NDF: 2.3/7

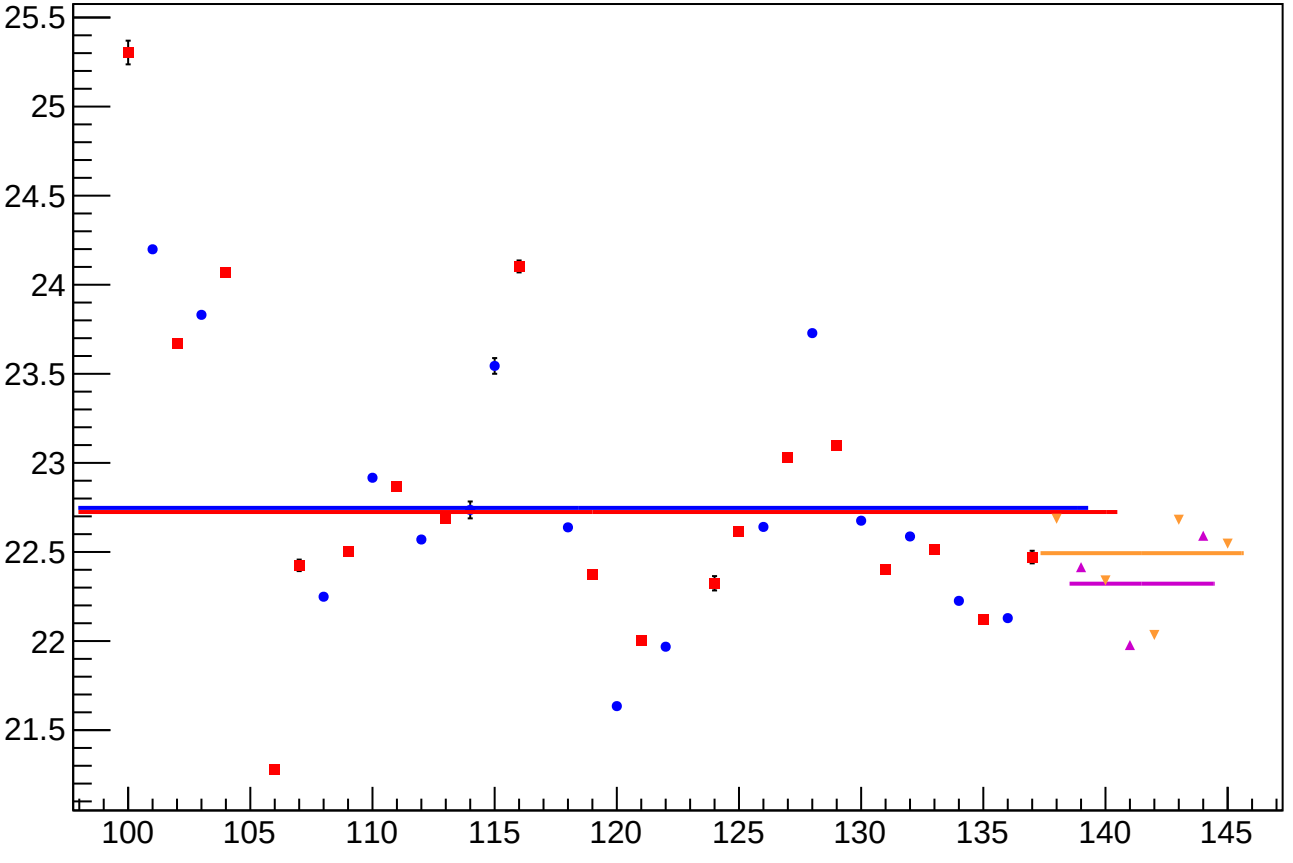
Right: 8.972+/-5.920 $\chi^2$/NDF: 37.1/34

In: 2.081+/-7.204 $\chi^2$/NDF:19.7/18

Out: 23.396+/-6.767 $\chi^2$/NDF:16.9/23

All: 13.404+/-4.932 $\chi^2$/NDF: 41.2/42

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: 22.493+/-0.008 $\chi^2$/NDF:695.4/4

Right Out: 22.724+/-0.006 $\chi^2$/NDF: 14490.6/18

Left In: 22.322+/-0.010 $\chi^2$/NDF:718.7/2

Left: 22.421+/-0.006 $\chi^2$/NDF: 1593.8/7

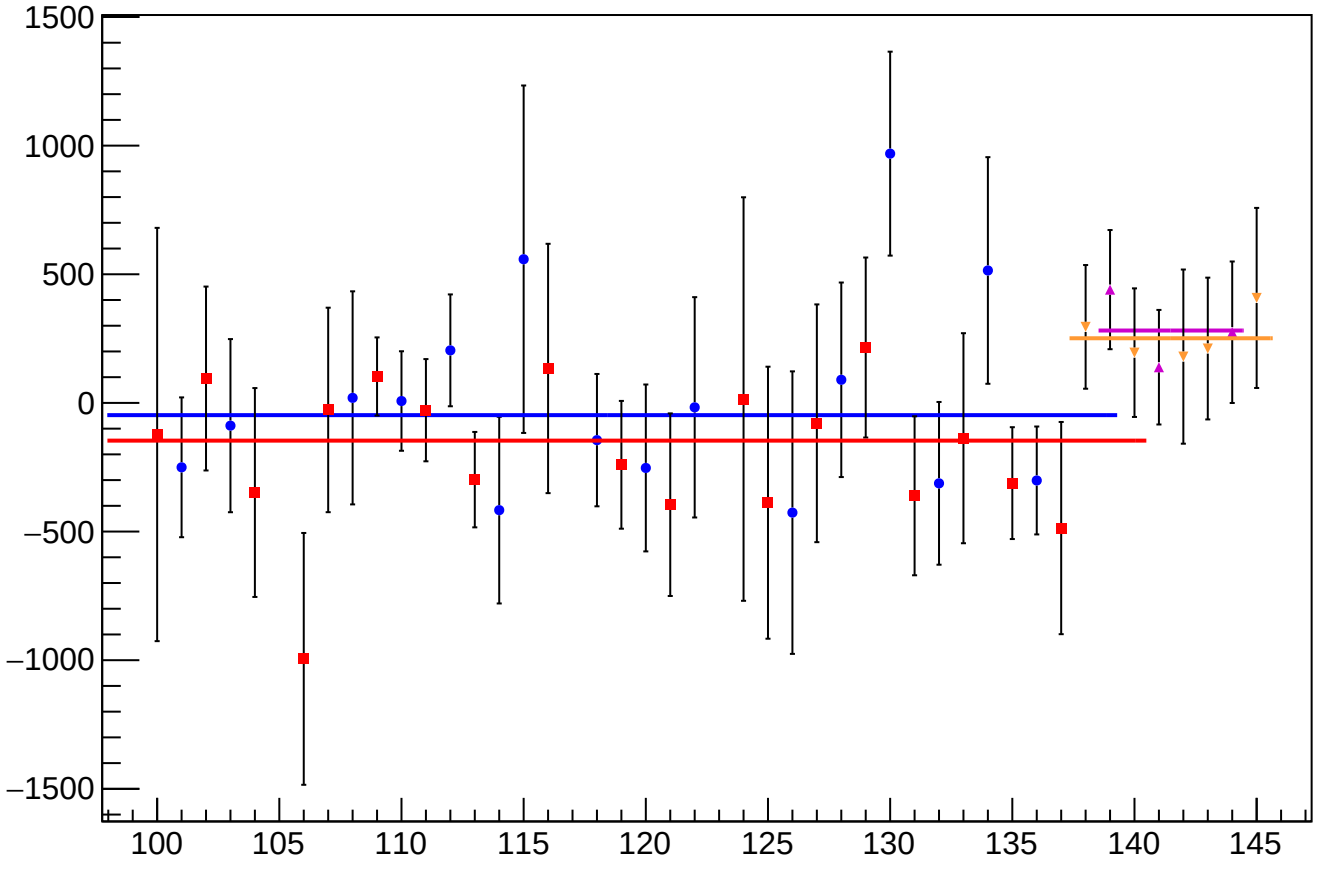
Right: 22.736+/-0.004 $\chi^2$/NDF: 29121.1/34

In: 22.631+/-0.005 $\chi^2$/NDF:16729.0/18

Out: 22.647+/-0.005 $\chi^2$/NDF:15704.2/23

All: 22.640+/-0.003 $\chi^2$/NDF: 32438.5/42

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -47.523+/-76.571 $\chi^2$/NDF: 15.4/15

Left Out: 251.284+/-125.606 $\chi^2$/NDF:0.3/4

Right Out: -146.573+/-68.398 $\chi^2$/NDF: 11.6/18

Left In: 281.352+/-138.621 $\chi^2$/NDF:0.9/2

Left: 264.840+/-93.079 $\chi^2$/NDF: 1.3/7

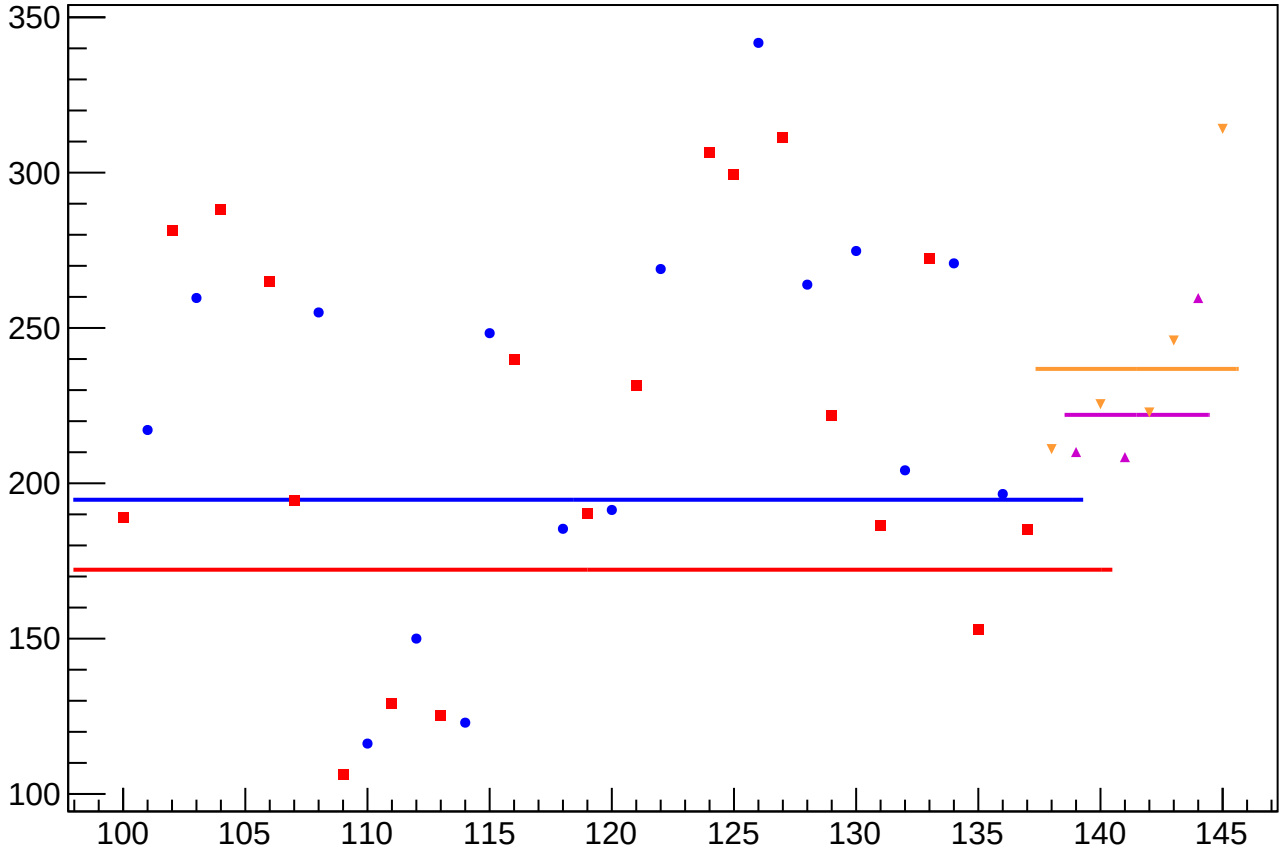
Right: -102.614+/-51.010 $\chi^2$/NDF: 27.9/34

In: 29.364+/-67.025 $\chi^2$/NDF:20.6/18

Out: -55.580+/-60.069 $\chi^2$/NDF:19.7/23

All: -17.743+/-44.733 $\chi^2$/NDF: 41.1/42

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: 236.827+/-0.089 $\chi^2$/NDF:130338.2/4

Right Out: 172.186+/-0.048 $\chi^2$/NDF: 1671068.3/18

Left In: 222.032+/-0.098 $\chi^2$/NDF:50213.6/2

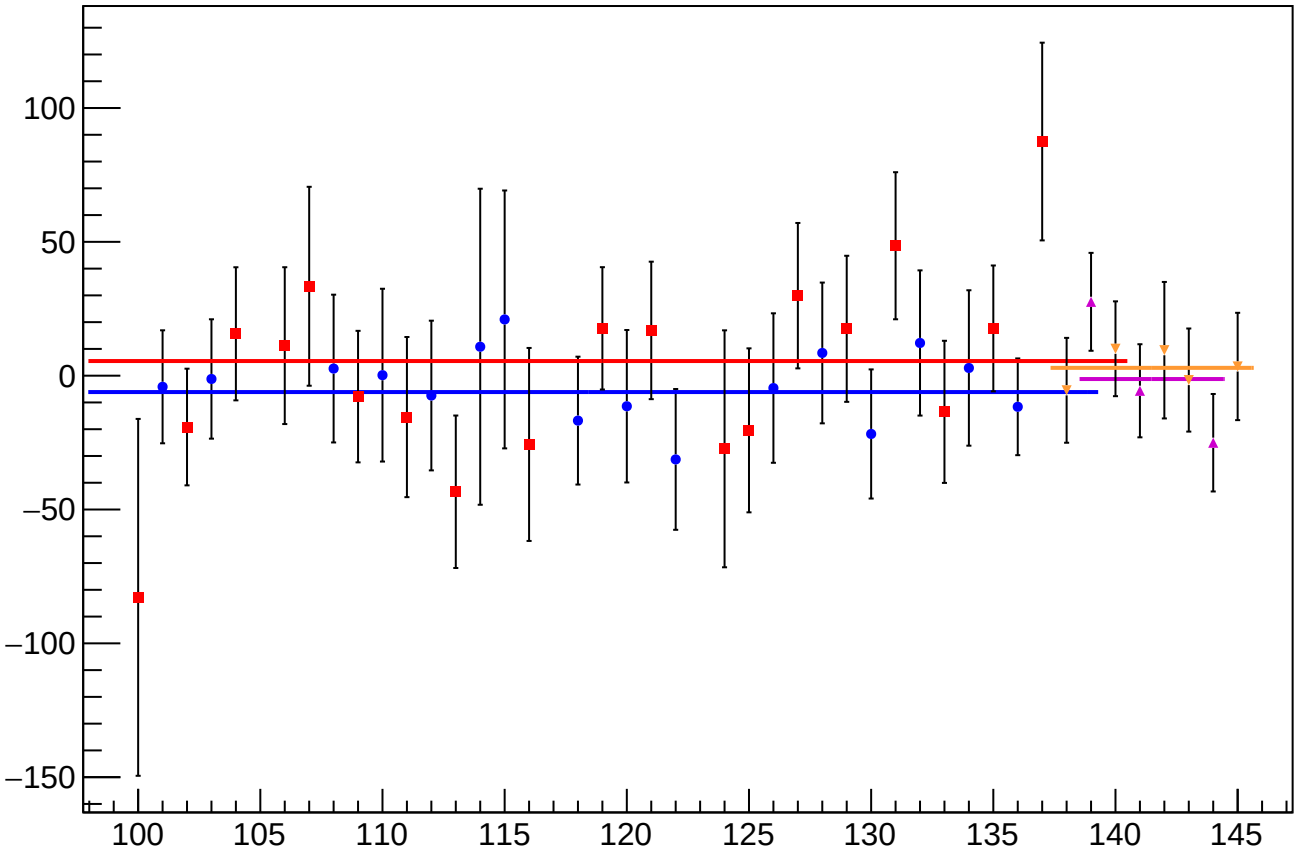
Left: 230.157+/-0.066 $\chi^2$/NDF: 193062.9/7

Right: 182.181+/-0.036 $\chi^2$/NDF: 2819594.0/34

In: 201.096+/-0.047 $\chi^2$/NDF:1162043.0/18

Out: 186.970+/-0.042 $\chi^2$/NDF:2209955.0/23

All: 193.262+/-0.032 $\chi^2$/NDF: 3421263.5/42




Right In: -6.119+/-6.592 $\chi^2$/NDF: 3.1/15

Left Out: 2.926+/-8.939 $\chi^2$/NDF:0.5/4

Right Out: 5.470+/-6.509 $\chi^2$/NDF: 19.2/18

Left In: -1.252+/-10.363 $\chi^2$/NDF:4.3/2

Left: 1.144+/-6.769 $\chi^2$/NDF: 4.8/7

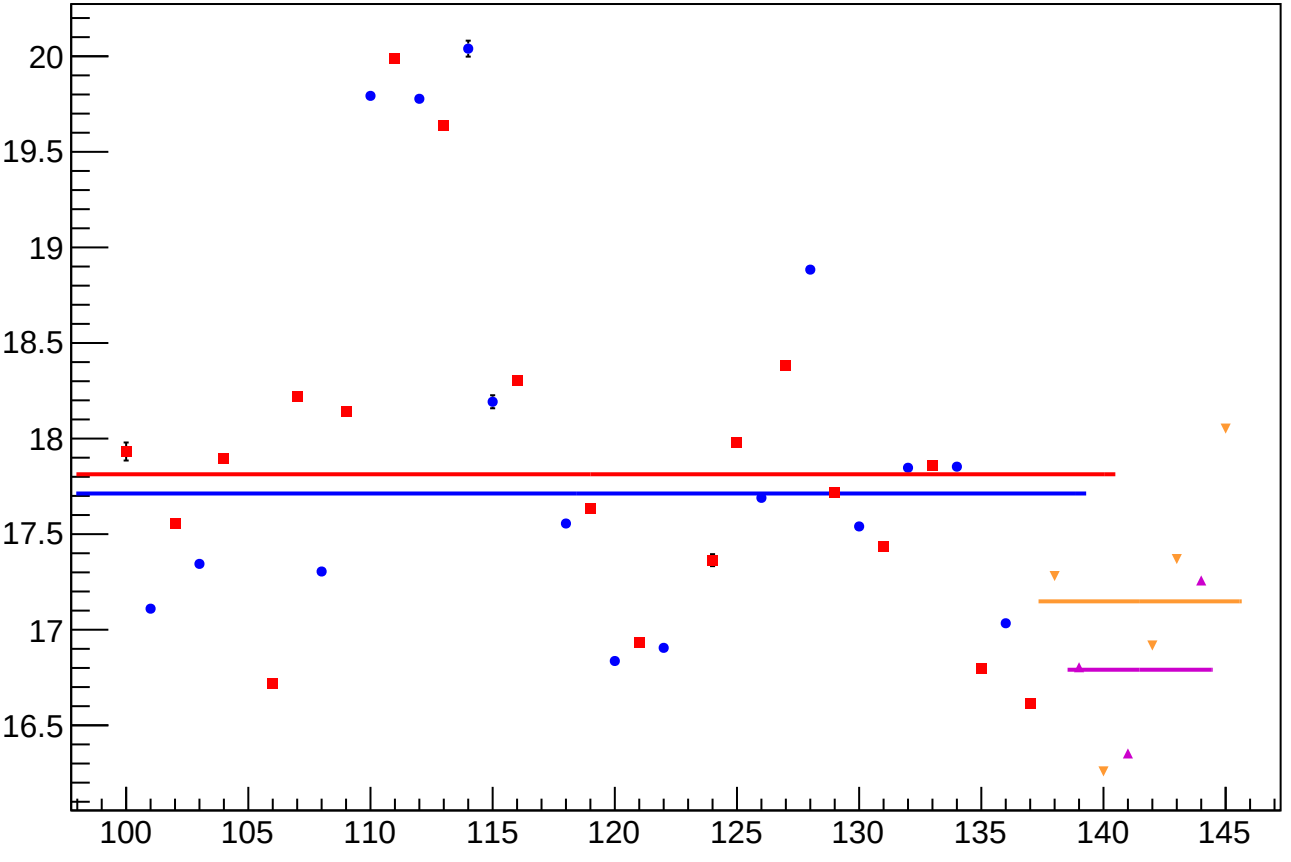
Right: -0.251+/-4.632 $\chi^2$/NDF: 23.9/34

In: -4.717+/-5.562 $\chi^2$/NDF:7.5/18

Out: 4.588+/-5.262 $\chi^2$/NDF:19.7/23

All: 0.194+/-3.822 $\chi^2$/NDF: 28.7/42

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: 17.148+/-0.006 $\chi^2$/NDF:9626.8/4

Right Out: 17.813+/-0.005 $\chi^2$/NDF: 32713.6/18

Left In: 16.791+/-0.007 $\chi^2$/NDF:2584.0/2

Left: 16.996+/-0.005 $\chi^2$/NDF: 13577.2/7

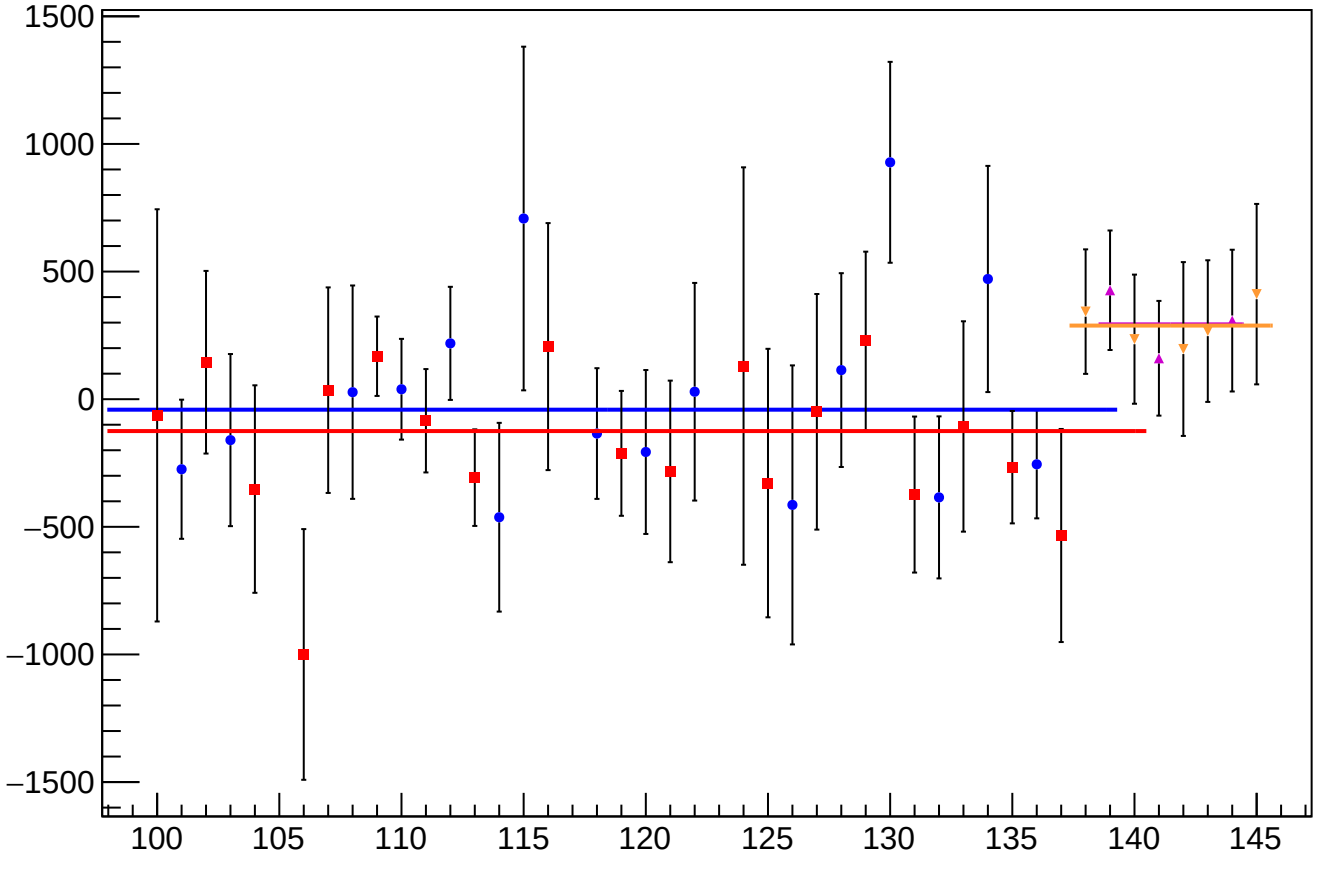
Right: 17.764+/-0.003 $\chi^2$/NDF: 68933.0/34

In: 17.447+/-0.004 $\chi^2$/NDF:49837.2/18

Out: 17.583+/-0.004 $\chi^2$/NDF:49571.4/23

All: 17.519+/-0.003 $\chi^2$/NDF: 100038.2/42

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -41.114+/-77.139 $\chi^2$/NDF: 15.6/15

Left Out: 288.411+/-126.940 $\chi^2$/NDF:0.3/4

Right Out: -124.872+/-69.109 $\chi^2$/NDF: 12.9/18

Left In: 293.159+/-140.000 $\chi^2$/NDF:0.7/2

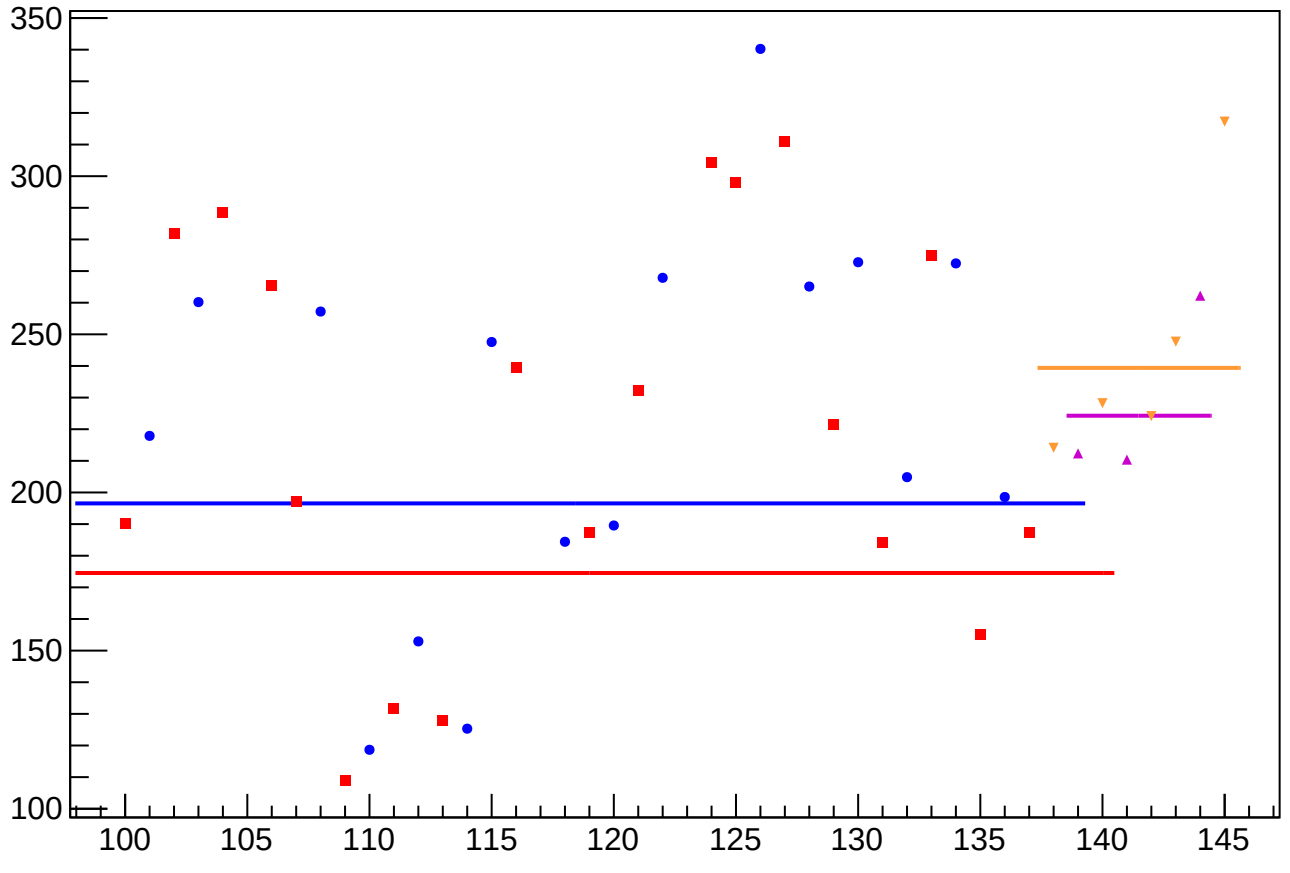
Left: 290.553+/-94.039 $\chi^2$/NDF: 1.0/7

Right: -87.579+/-51.473 $\chi^2$/NDF: 29.1/34

In: 36.734+/-67.562 $\chi^2$/NDF:20.7/18

Out: -30.384+/-60.696 $\chi^2$/NDF:21.3/23

All: -0.407+/-45.152 $\chi^2$/NDF: 42.6/42




Right In: 196.542+/-0.055 $\chi^2$/NDF: 1000770.4/15

Left Out: 239.396+/-0.090 $\chi^2$/NDF:128205.6/4

Right Out: 174.540+/-0.049 $\chi^2$/NDF: 1588725.2/18

Left In: 224.265+/-0.099 $\chi^2$/NDF:50157.8/2

Left: 232.569+/-0.066 $\chi^2$/NDF: 191185.2/7

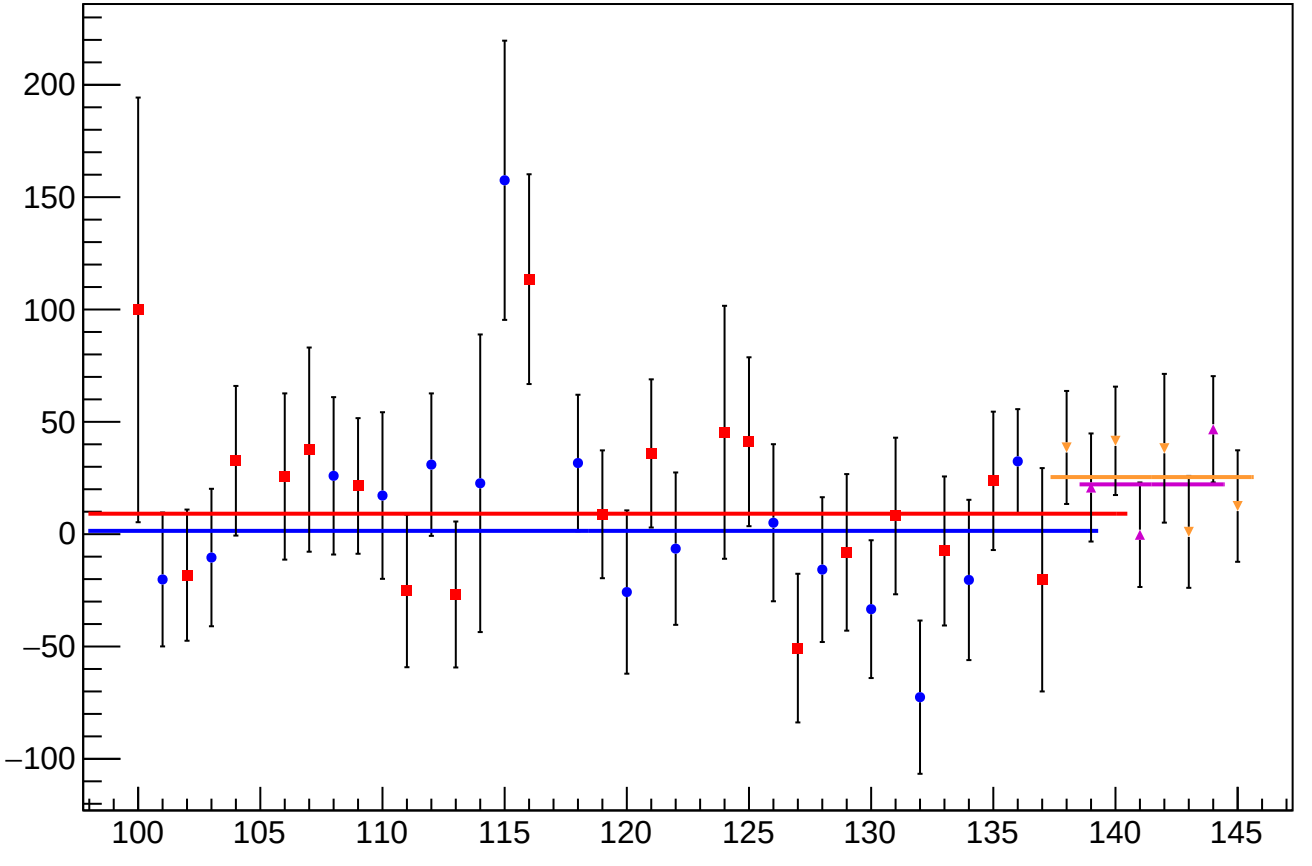
Right: 184.337+/-0.036 $\chi^2$/NDF: 2679758.7/34

In: 202.998+/-0.048 $\chi^2$/NDF:1111086.9/18

Out: 189.368+/-0.043 $\chi^2$/NDF:2119649.7/23

All: 195.456+/-0.032 $\chi^2$/NDF: 3275783.7/42

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected




Right In: 1.475+/-8.370 $\chi^2$/NDF: 18.7/15

Left Out: 25.415+/-11.588 $\chi^2$/NDF:2.1/4

Right Out: 9.113+/-8.198 $\chi^2$/NDF: 16.5/18

Left In: 22.169+/-13.653 $\chi^2$/NDF:2.0/2

Left: 24.056+/-8.835 $\chi^2$/NDF: 4.1/7

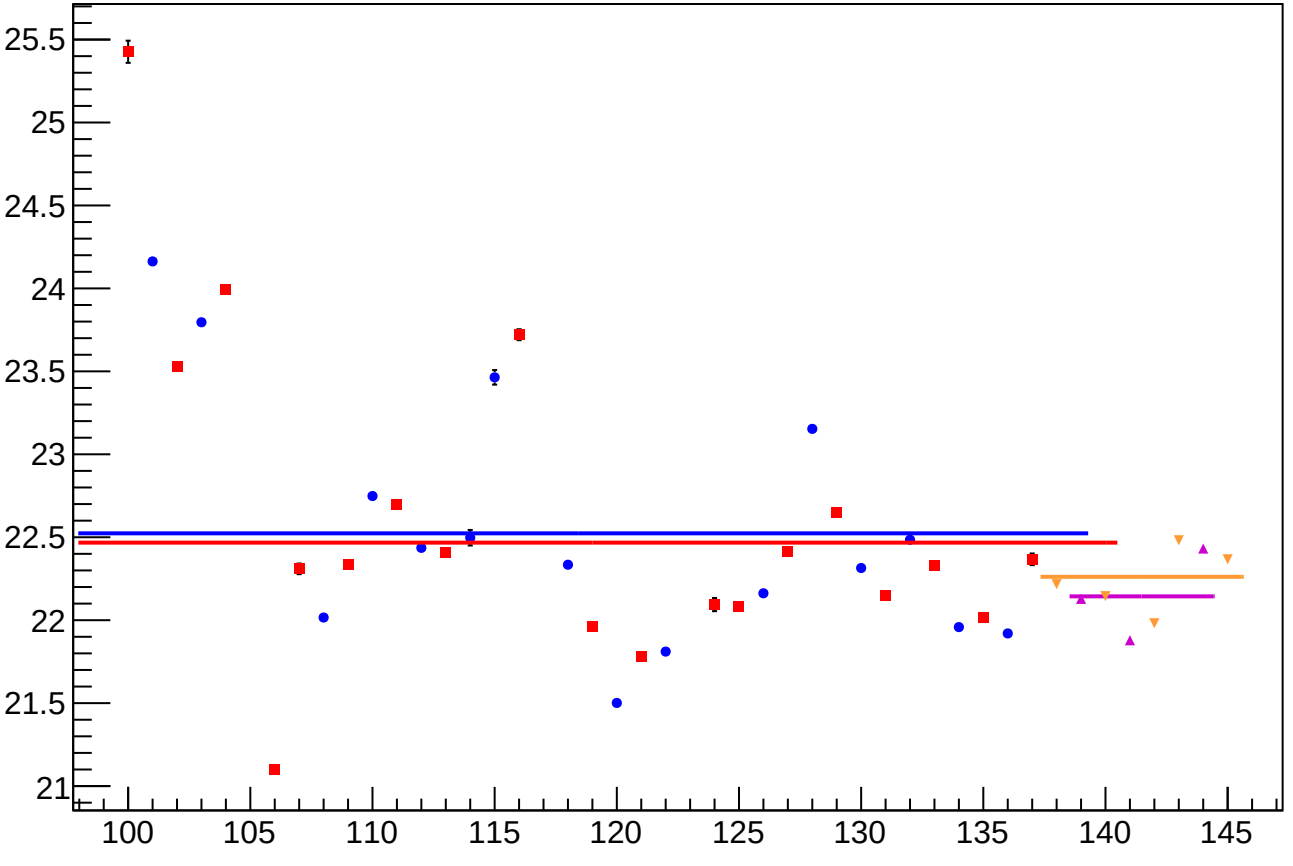
Right: 5.374+/-5.857 $\chi^2$/NDF: 35.6/34

In: 7.128+/-7.136 $\chi^2$/NDF:22.3/18

Out: 14.550+/-6.692 $\chi^2$/NDF:19.9/23

All: 11.077+/-4.882 $\chi^2$/NDF: 42.8/42

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: 22.262+/-0.008 $\chi^2$/NDF:388.5/4

Right Out: 22.468+/-0.006 $\chi^2$/NDF: 15626.5/18

Left In: 22.144+/-0.010 $\chi^2$/NDF:557.0/2

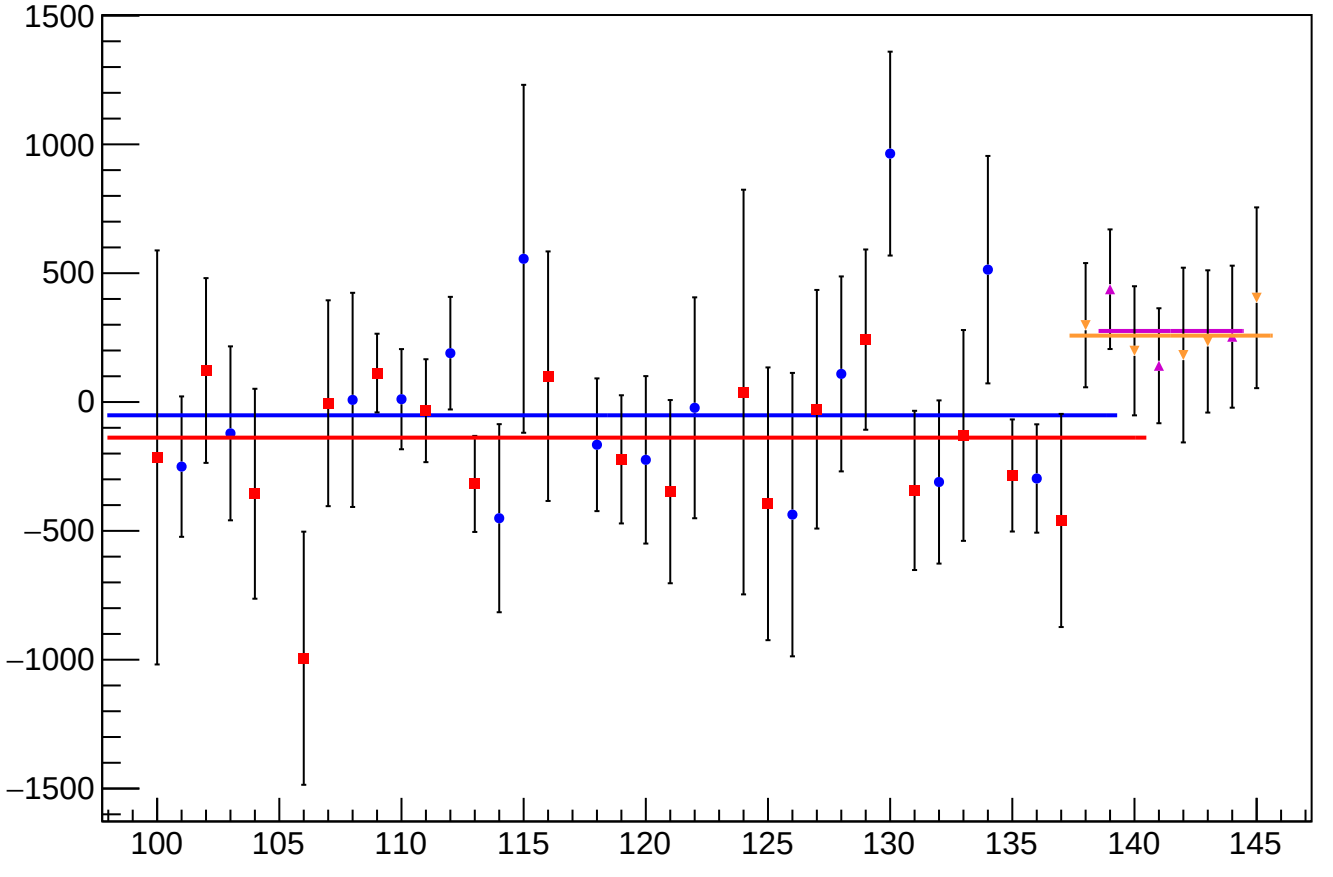
Left: 22.212+/-0.006 $\chi^2$/NDF: 1032.2/7

Right: 22.495+/-0.004 $\chi^2$/NDF: 31619.9/34

In: 22.420+/-0.005 $\chi^2$/NDF:17630.1/18

Out: 22.399+/-0.005 $\chi^2$/NDF:16436.3/23

All: 22.409+/-0.003 $\chi^2$/NDF: 34075.6/42




Right In: -51.492+/-76.798 $\chi^2$/NDF: 15.3/15

Left Out: 257.748+/-125.899 $\chi^2$/NDF:0.3/4

Right Out: -138.184+/-68.625 $\chi^2$/NDF: 11.6/18

Left In: 275.836+/-138.926 $\chi^2$/NDF:0.9/2

Left: 265.904+/-93.290 $\chi^2$/NDF: 1.2/7

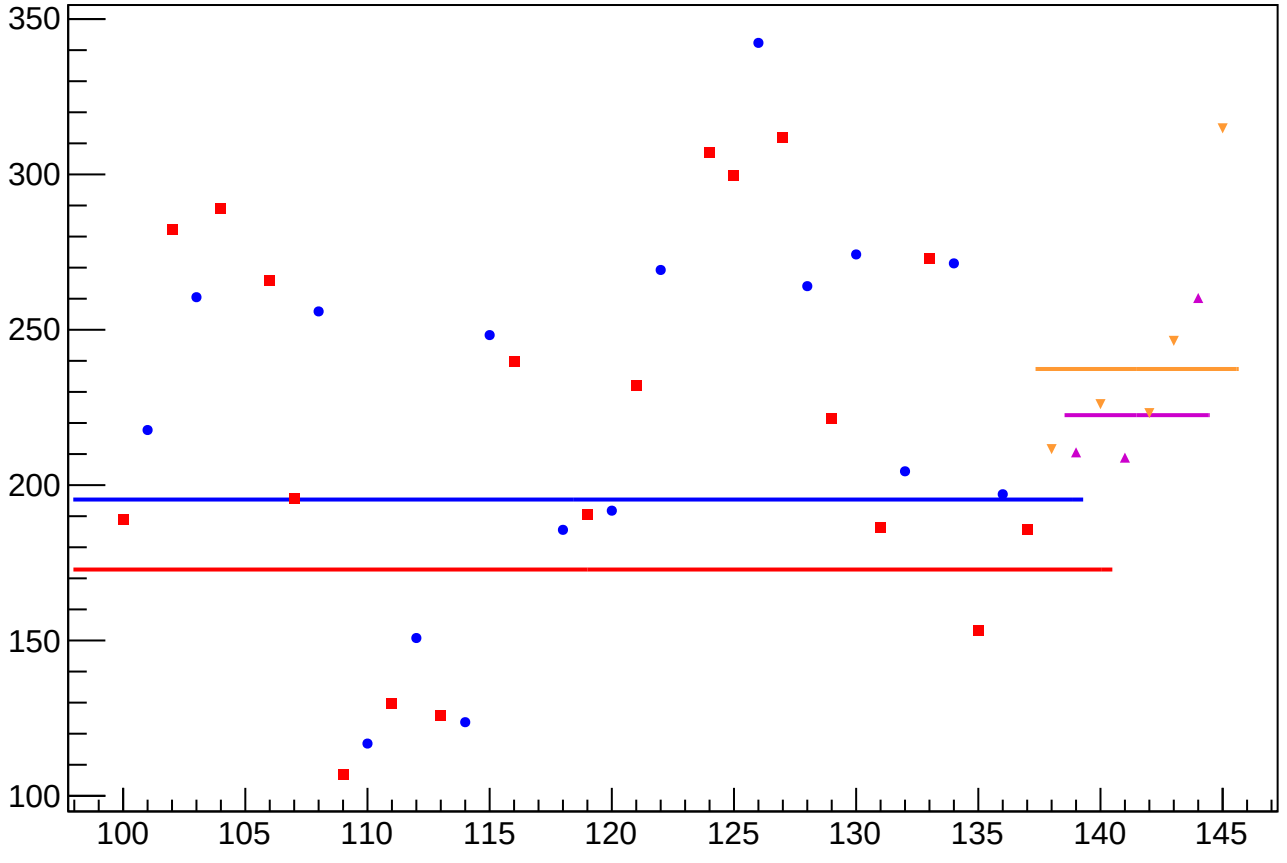
Right: -99.695+/-51.171 $\chi^2$/NDF: 27.7/34

In: 25.122+/-67.212 $\chi^2$/NDF:20.5/18

Out: -47.494+/-60.255 $\chi^2$/NDF:19.5/23

All: -15.138+/-44.865 $\chi^2$/NDF: 40.6/42

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: 237.383+/-0.089 $\chi^2$/NDF:130161.9/4

Right Out: 172.837+/-0.049 $\chi^2$/NDF: 1659430.2/18

Left In: 222.522+/-0.098 $\chi^2$/NDF:50265.8/2

Left: 230.681+/-0.066 $\chi^2$/NDF: 192993.2/7

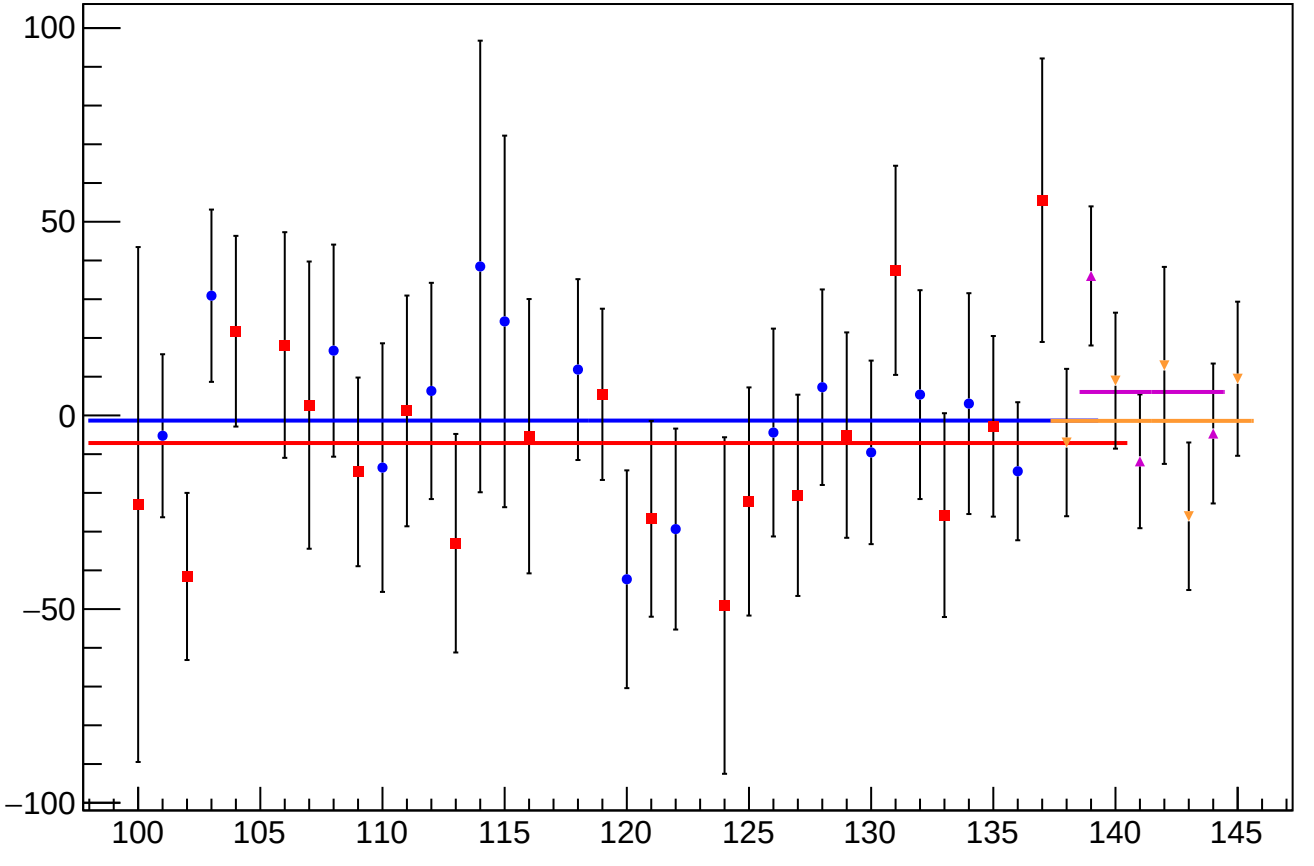
Right: 182.837+/-0.036 $\chi^2$/NDF: 2796519.3/34

In: 201.718+/-0.048 $\chi^2$/NDF:1150249.9/18

Out: 187.621+/-0.043 $\chi^2$/NDF:2194860.0/23

All: 193.903+/-0.032 $\chi^2$/NDF: 3393886.3/42

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: -1.408+/-8.825 $\chi^2$/NDF:2.7/4

Right Out: -7.126+/-6.402 $\chi^2$/NDF: 14.4/18

Left In: 6.055+/-10.249 $\chi^2$/NDF:4.2/2

Left: 1.769+/-6.688 $\chi^2$/NDF: 7.2/7

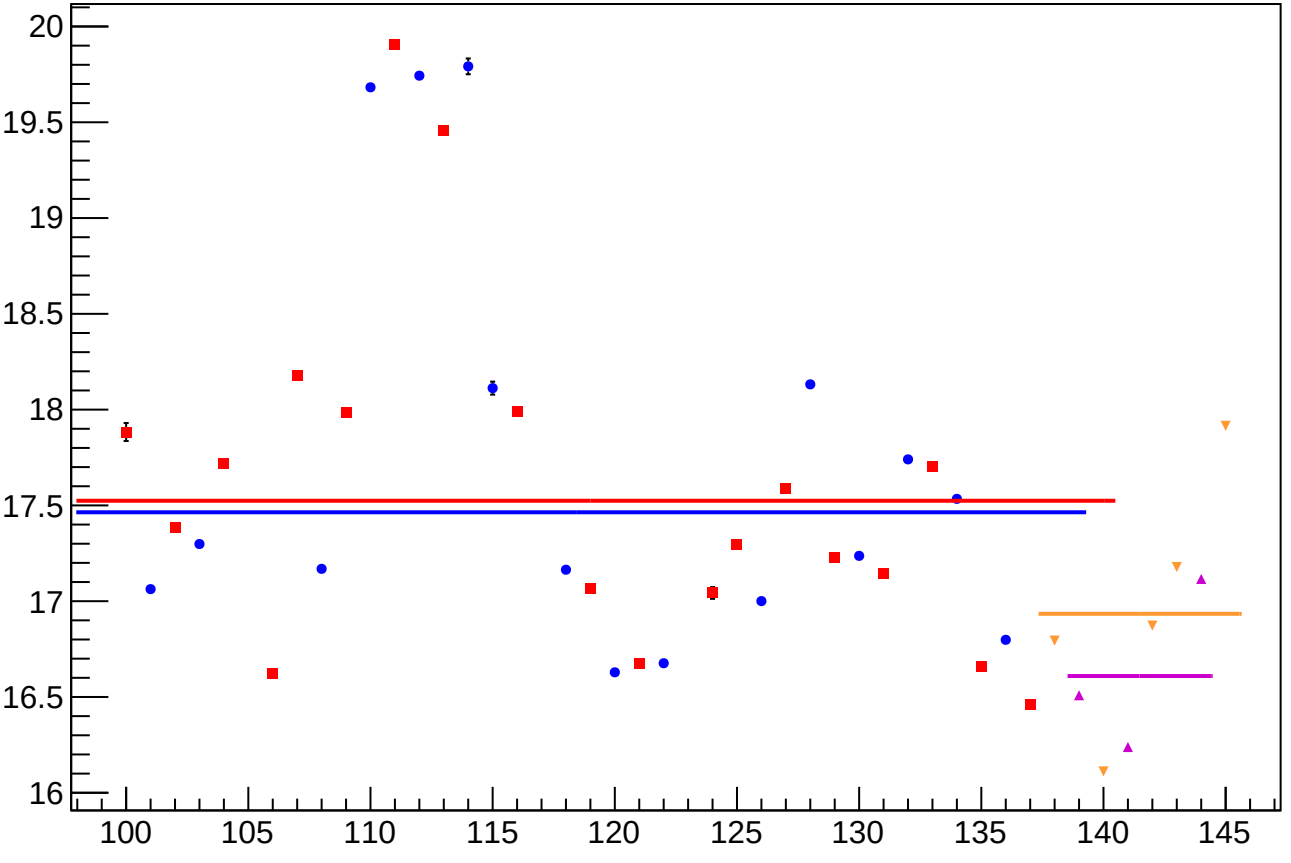
Right: -4.272+/-4.561 $\chi^2$/NDF: 22.8/34

In: 0.787+/-5.488 $\chi^2$/NDF:12.6/18

Out: -5.155+/-5.182 $\chi^2$/NDF:17.4/23

All: -2.354+/-3.768 $\chi^2$/NDF: 30.6/42

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: 16.934+/-0.006 $\chi^2$/NDF:9710.5/4

Right Out: 17.524+/-0.005 $\chi^2$/NDF: 34726.0/18

Left In: 16.609+/-0.007 $\chi^2$/NDF:2557.2/2

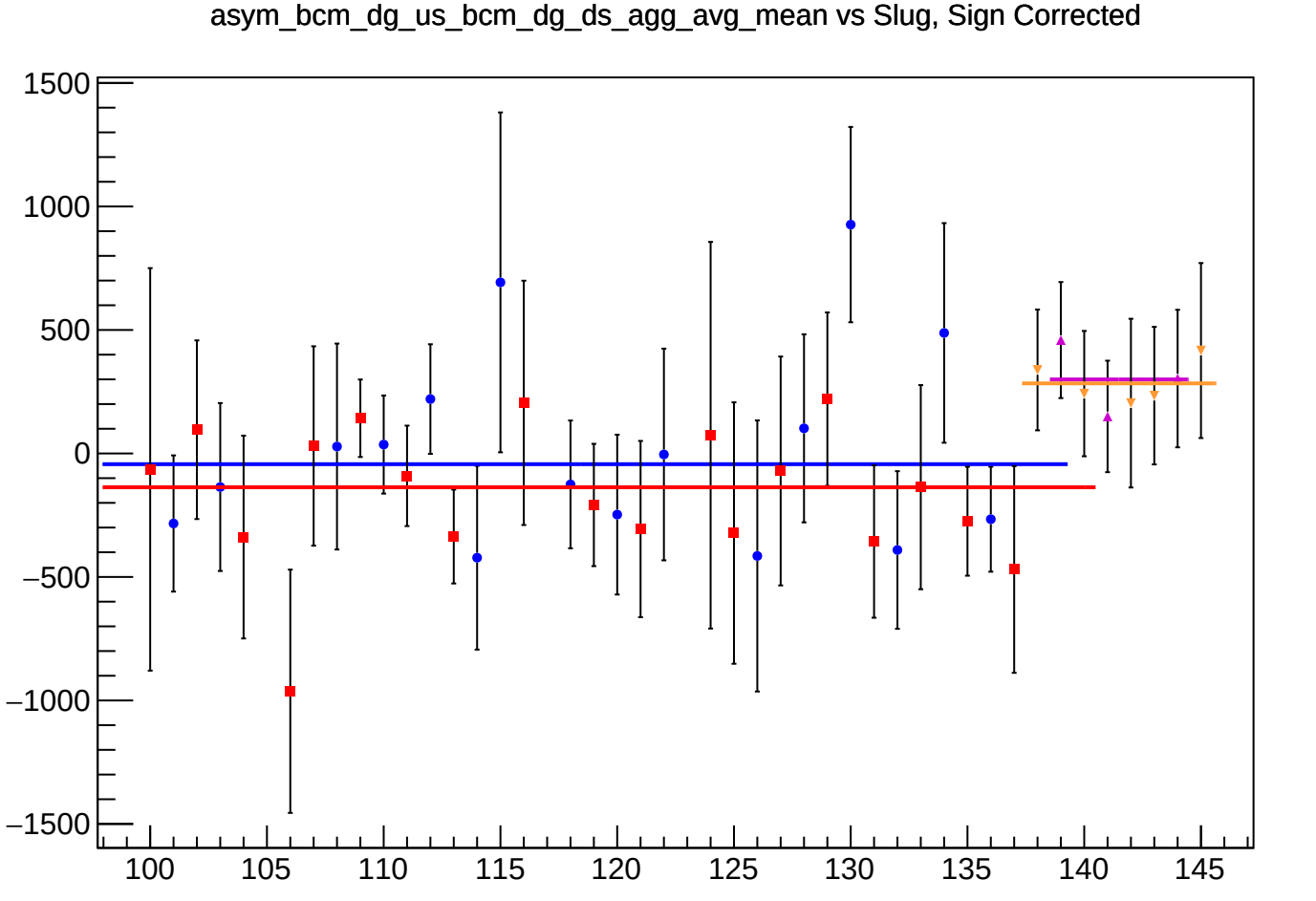
Left: 16.796+/-0.005 $\chi^2$/NDF: 13421.1/7

Right: 17.495+/-0.003 $\chi^2$/NDF: 71463.1/34

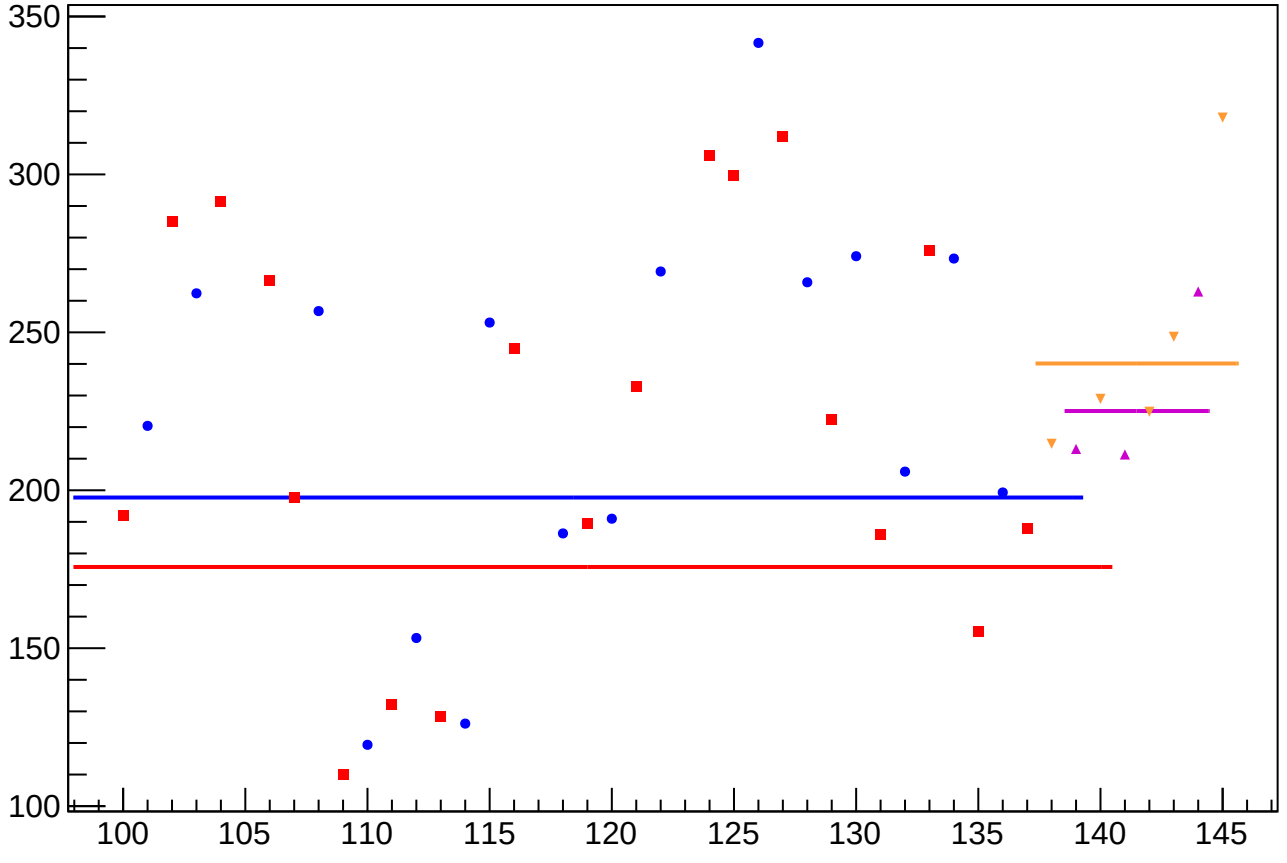
In: 17.219+/-0.004 $\chi^2$/NDF:49130.8/18

Out: 17.321+/-0.004 $\chi^2$/NDF:50297.0/23

All: 17.273+/-0.003 $\chi^2$/NDF: 99791.5/42


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected
1500
1000
500
0
−500
−1000
−1500
100
105
110
115
120
125
130
135
140
145
Right In: -43.384+/-77.584 χ²/NDF: 15.5/15
Left Out: 283.769+/-127.328 χ²/NDF:0.3/4
Right Out: -136.778+/-69.557 χ²/NDF: 11.5/18
Left In: 299.605+/-140.507 χ²/NDF:0.9/2
Left: 290.910+/-94.350 χ²/NDF: 1.2/7
Right: -95.161+/-51.790 χ²/NDF: 27.8/34
In: 36.757+/-67.918 χ²/NDF:20.9/18
Out: -40.122+/-61.042 χ²/NDF:20.2/23
All: -5.770+/-45.400 χ²/NDF: 41.9/42

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: 240.138+/-0.090 $\chi^2$/NDF:127904.8/4

Right Out: 175.716+/-0.049 $\chi^2$/NDF: 1590559.8/18

Left In: 225.096+/-0.099 $\chi^2$/NDF:49597.9/2

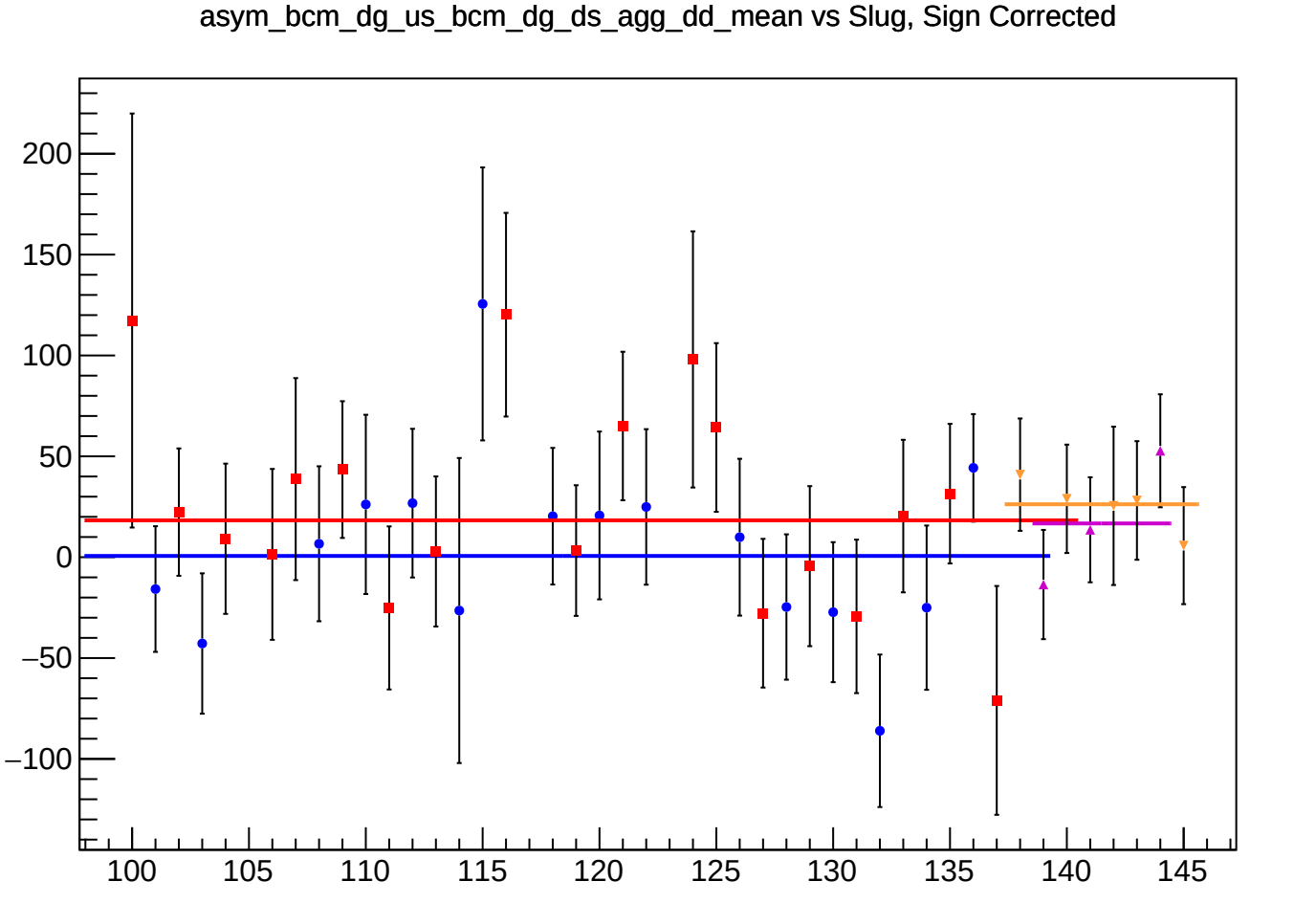
Left: 233.355+/-0.067 $\chi^2$/NDF: 190089.1/7

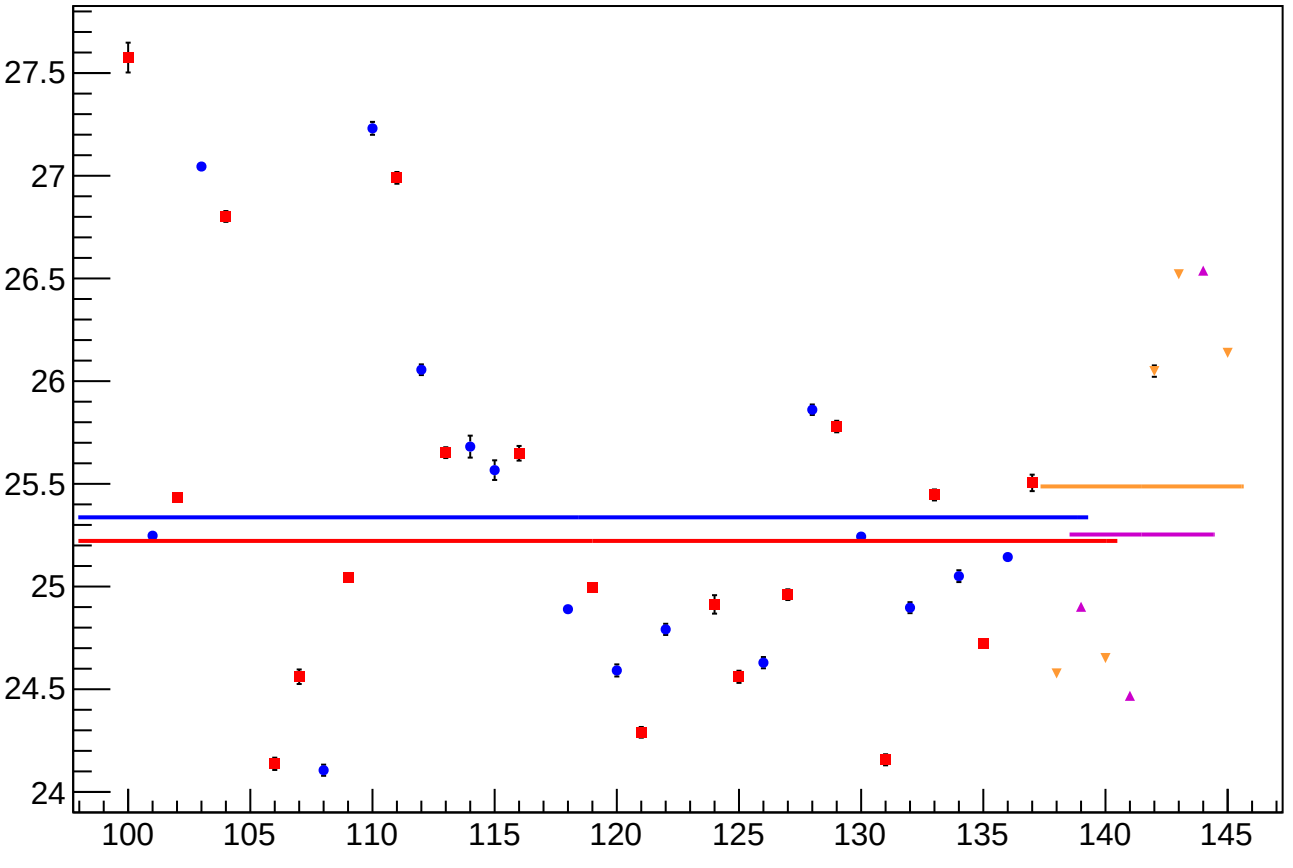
Right: 185.515+/-0.037 $\chi^2$/NDF: 2679972.8/34

In: 204.107+/-0.048 $\chi^2$/NDF:1108158.1/18

Out: 190.522+/-0.043 $\chi^2$/NDF:2112777.5/23

All: 196.592+/-0.032 $\chi^2$/NDF: 3265194.8/42


asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected
200
150
100
50
0
−50
−100
100
105
110
115
120
125
130
135
140
145
Right In: 0.619+/-9.421 χ²/NDF: 16.7/15
Left Out: 26.241+/-13.282 χ²/NDF:0.8/4
Right Out: 18.248+/-9.208 χ²/NDF: 18.0/18
Left In: 16.733+/-15.592 χ²/NDF:2.9/2
Left: 22.243+/-10.111 χ²/NDF: 3.9/7
Right: 9.635+/-6.585 χ²/NDF: 36.5/34
In: 4.929+/-8.064 χ²/NDF:20.4/18
Out: 20.843+/-7.568 χ²/NDF:19.0/23
All: 13.391+/-5.518 χ²/NDF: 41.5/42




Right In: 25.337+/-0.007 $\chi^2$/NDF: 14315.0/15

Left Out: 25.487+/-0.009 $\chi^2$/NDF:7955.7/4

Right Out: 25.222+/-0.007 $\chi^2$/NDF: 15224.4/18

Left In: 25.253+/-0.011 $\chi^2$/NDF:6364.7/2

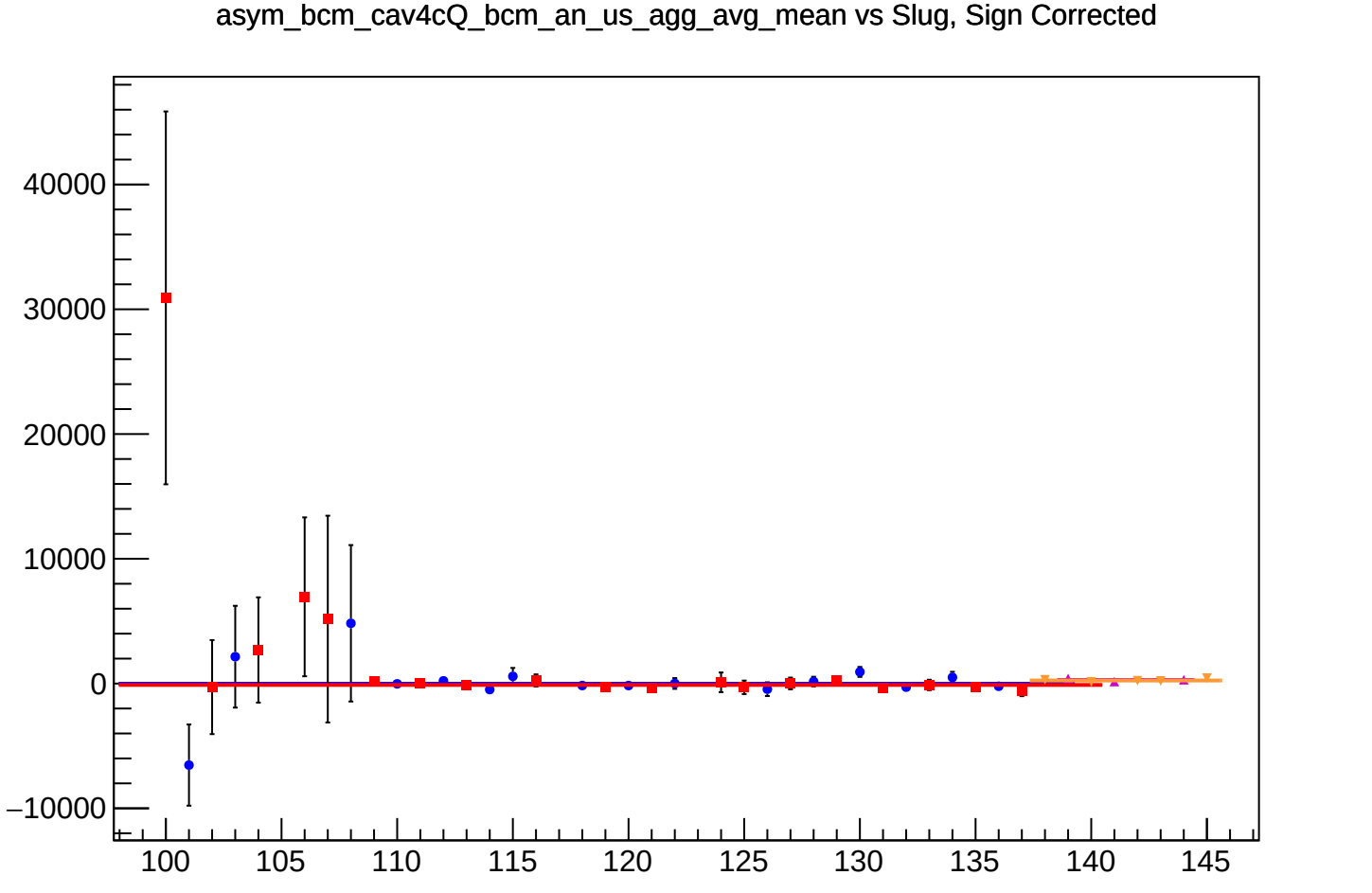
Left: 25.389+/-0.007 $\chi^2$/NDF: 14581.6/7

Right: 25.278+/-0.005 $\chi^2$/NDF: 29691.5/34

In: 25.315+/-0.006 $\chi^2$/NDF:20721.9/18

Out: 25.308+/-0.005 $\chi^2$/NDF:23718.9/23

All: 25.311+/-0.004 $\chi^2$/NDF: 44441.5/42




Right In: -15.450+/-84.701 $\chi^2$/NDF: 18.3/15

Left Out: 246.485+/-127.995 $\chi^2$/NDF:0.6/4

Right Out: -108.825+/-78.099 $\chi^2$/NDF: 14.0/18

Left In: 287.950+/-139.735 $\chi^2$/NDF:0.6/2

Left: 265.402+/-94.384 $\chi^2$/NDF: 1.2/7

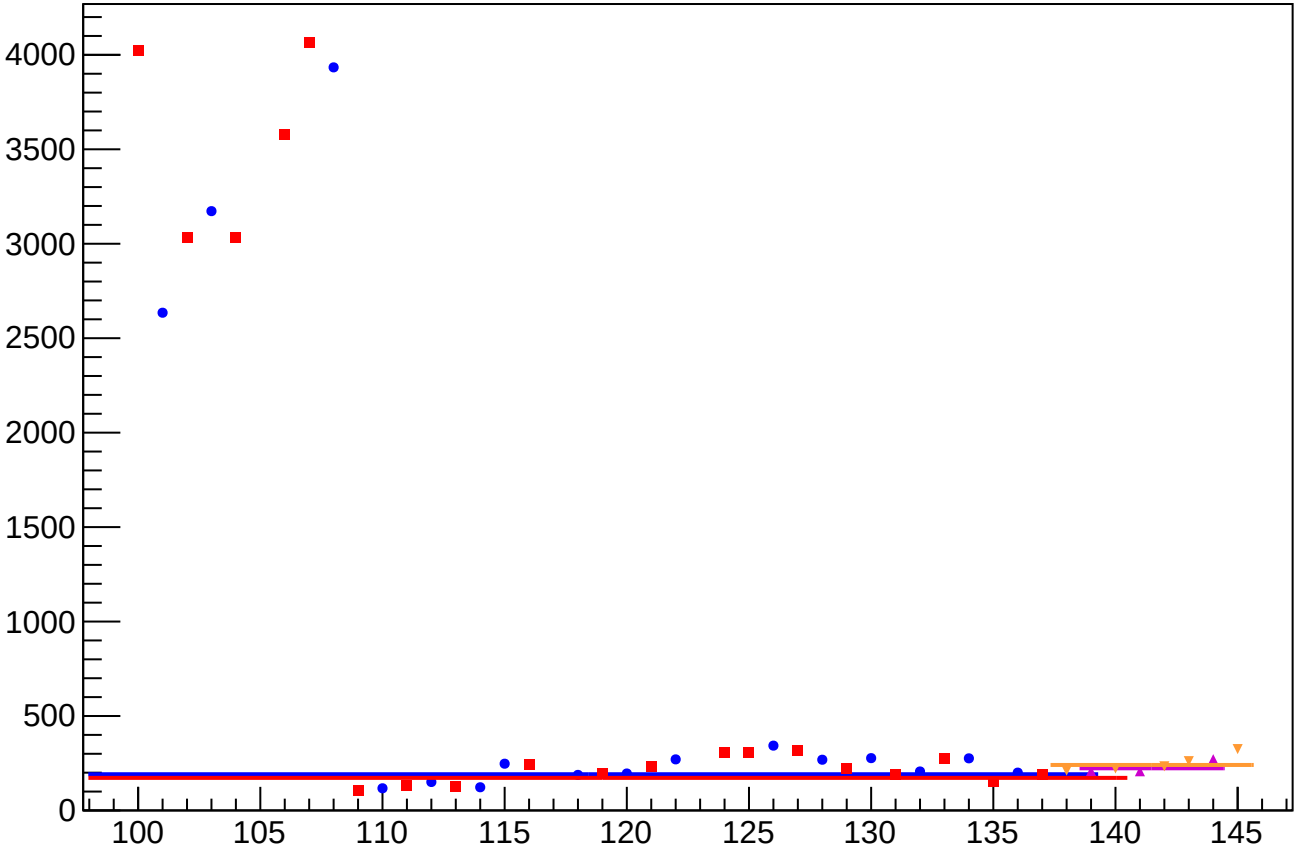
Right: -65.918+/-57.416 $\chi^2$/NDF: 33.0/34

In: 66.072+/-72.433 $\chi^2$/NDF:22.4/18

Out: -12.429+/-66.668 $\chi^2$/NDF:20.2/23

All: 23.574+/-49.053 $\chi^2$/NDF: 43.2/42

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: 240.806+/-0.091 $\chi^2$/NDF:160248.1/4

Right Out: 172.462+/-0.055 $\chi^2$/NDF: 4303129.4/18

Left In: 223.174+/-0.099 $\chi^2$/NDF:73893.9/2

Left: 232.762+/-0.067 $\chi^2$/NDF: 251457.4/7

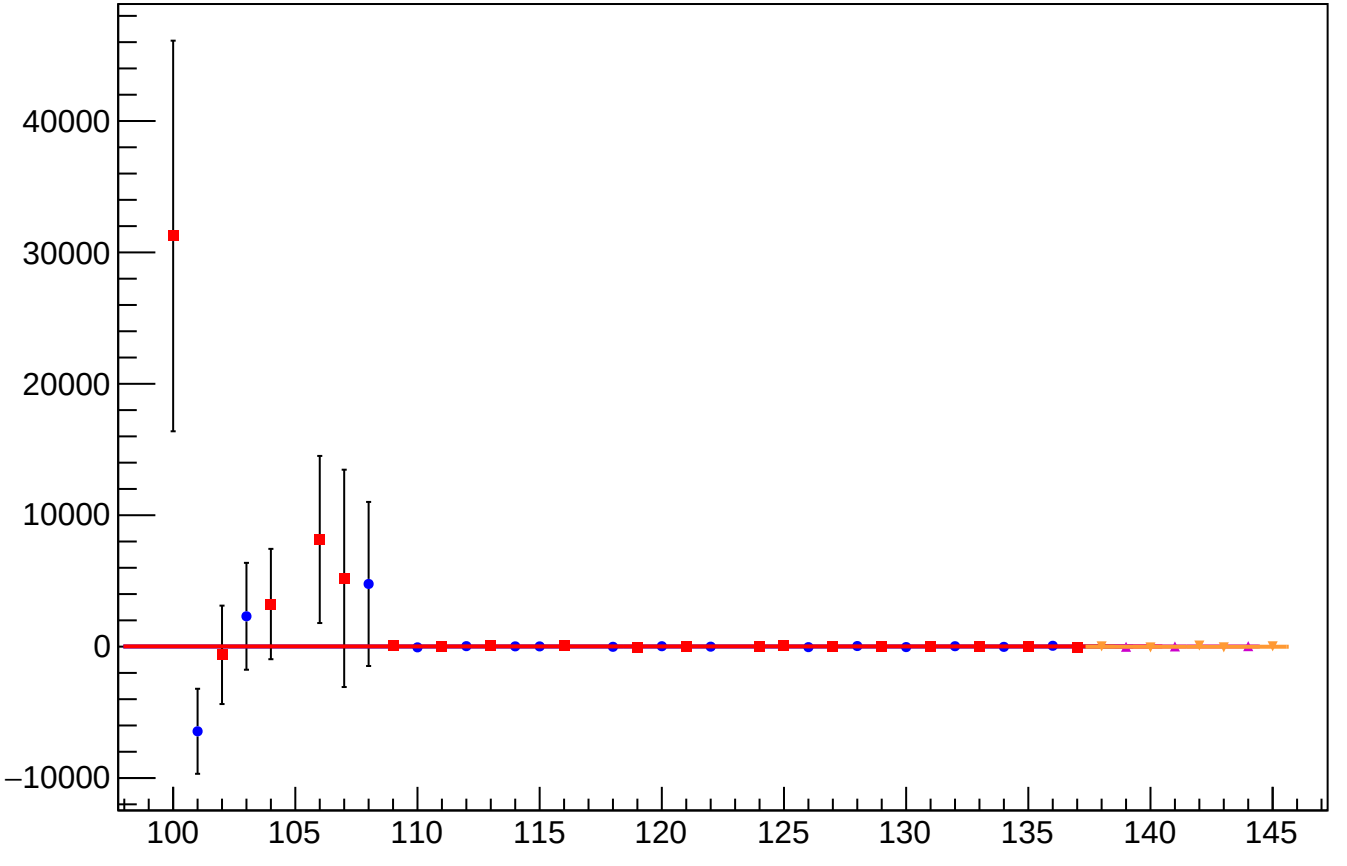
Right: 181.319+/-0.041 $\chi^2$/NDF: 8180903.6/34

In: 200.183+/-0.051 $\chi^2$/NDF:3969733.9/18

Out: 191.004+/-0.047 $\chi^2$/NDF:4878899.5/23

All: 195.214+/-0.035 $\chi^2$/NDF: 8866020.9/42

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: -6.979+/-15.411 $\chi^2$/NDF:10.0/4

Right Out: 18.105+/-11.805 $\chi^2$/NDF: 24.8/18

Left In: 14.354+/-17.694 $\chi^2$/NDF:1.1/2

Left: 2.223+/-11.621 $\chi^2$/NDF: 11.9/7

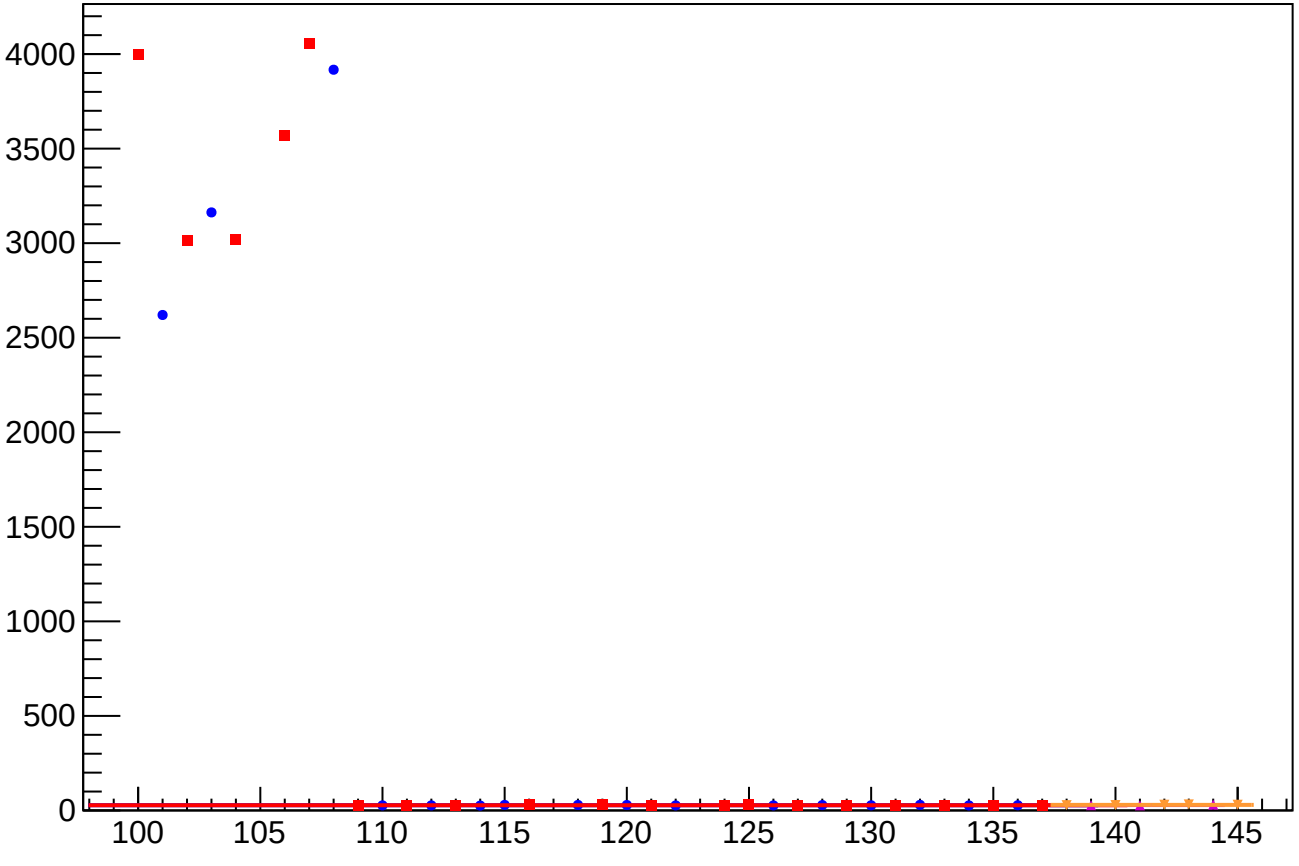
Right: 13.797+/-8.305 $\chi^2$/NDF: 41.0/34

In: 11.027+/-9.751 $\chi^2$/NDF:17.2/18

Out: 8.829+/-9.371 $\chi^2$/NDF:36.4/23

All: 9.884+/-6.757 $\chi^2$/NDF: 53.6/42

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: 29.438+/-0.011 $\chi^2$/NDF:17604.6/4

Right Out: 27.535+/-0.008 $\chi^2$/NDF: 3555229.4/18

Left In: 28.594+/-0.013 $\chi^2$/NDF:16925.5/2

Left: 29.074+/-0.008 $\chi^2$/NDF: 37123.2/7

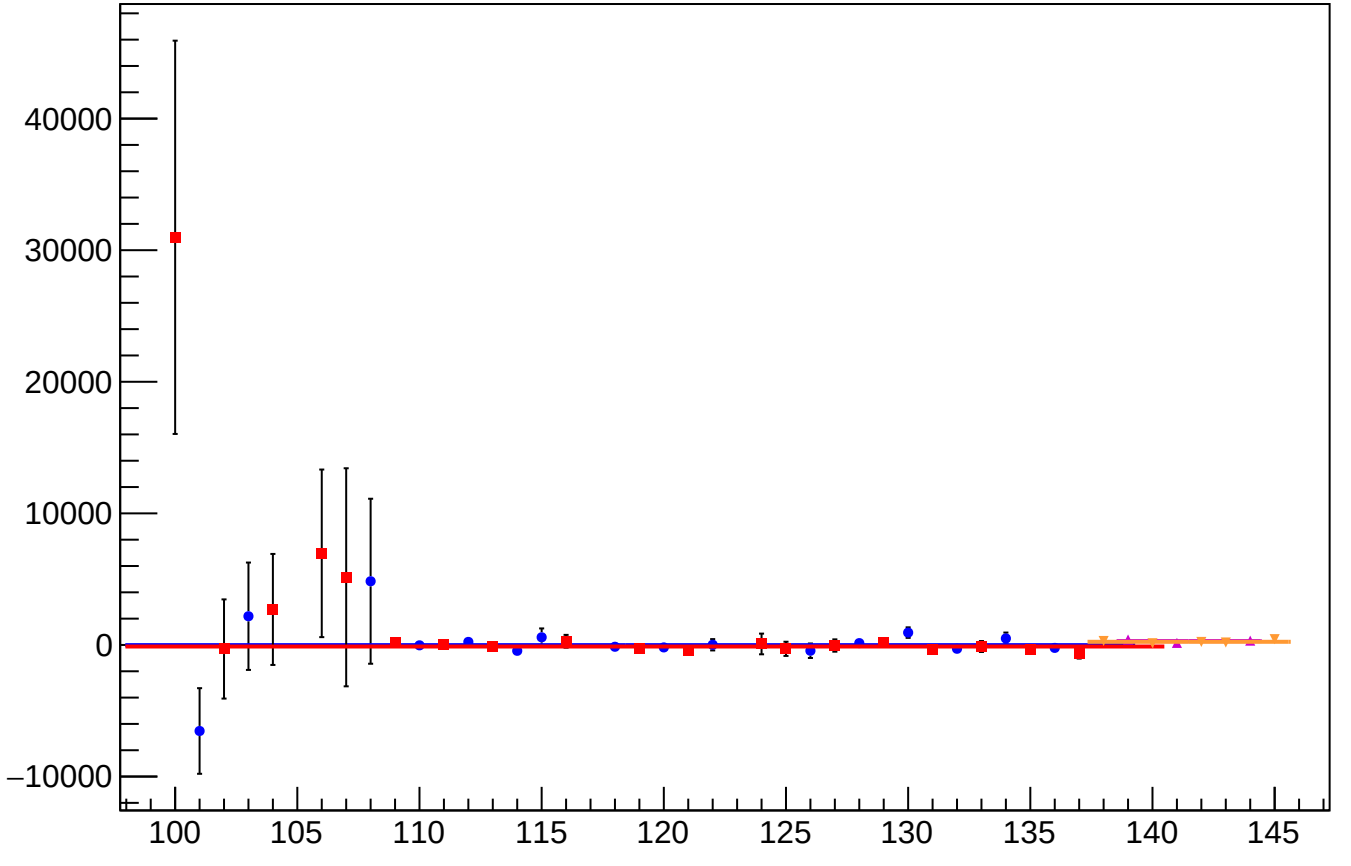
Right: 27.589+/-0.006 $\chi^2$/NDF: 6820810.9/34

In: 27.931+/-0.007 $\chi^2$/NDF:3286455.2/18

Out: 28.239+/-0.007 $\chi^2$/NDF:3592070.4/23

All: 28.091+/-0.005 $\chi^2$/NDF: 6879562.6/42

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: 240.490+/-127.699 $\chi^2$/NDF:0.6/4

Right Out: -118.063+/-77.862 $\chi^2$/NDF: 14.4/18

Left In: 293.379+/-139.432 $\chi^2$/NDF:0.7/2

Left: 264.616+/-94.172 $\chi^2$/NDF: 1.4/7

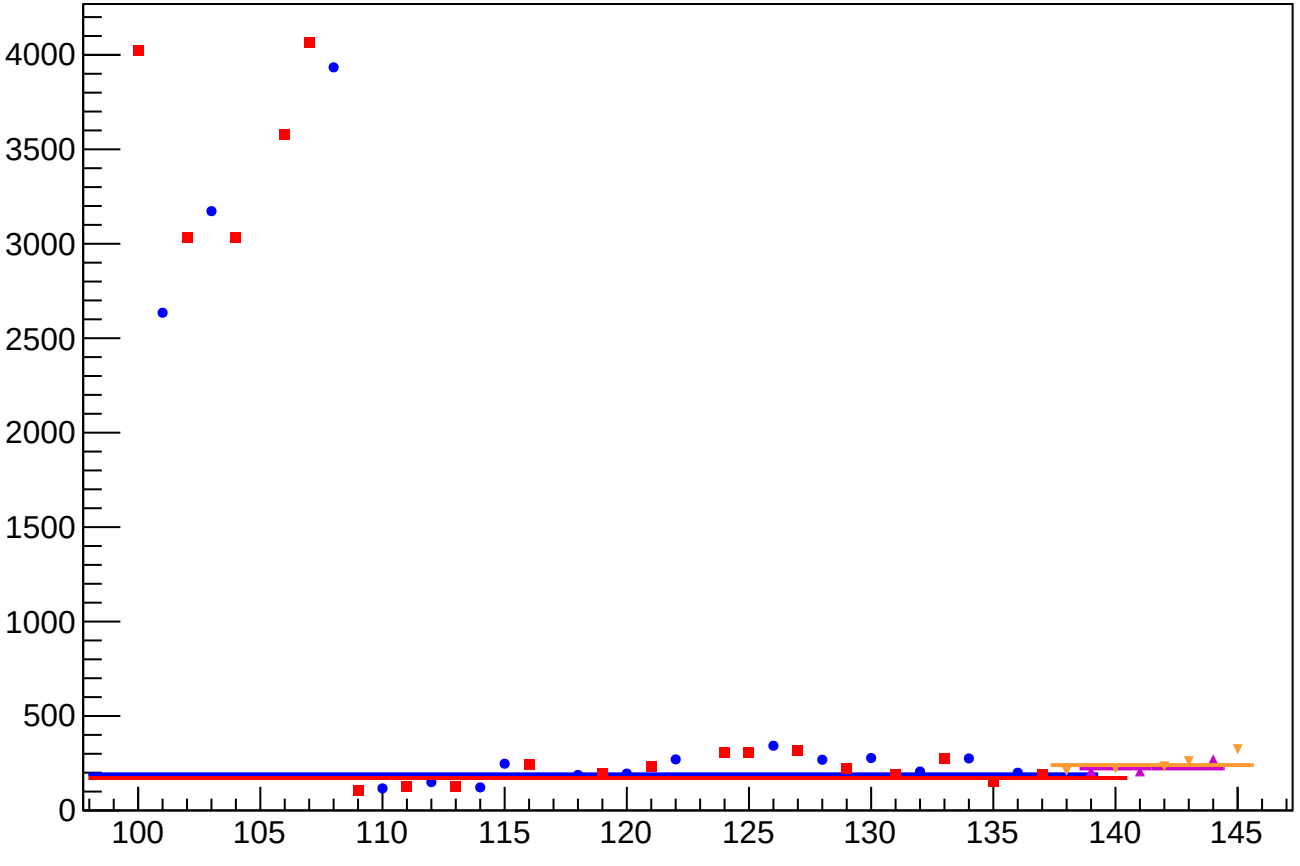
Right: -69.865+/-57.246 $\chi^2$/NDF: 33.6/34

In: 69.116+/-72.237 $\chi^2$/NDF:22.5/18

Out: -20.889+/-66.479 $\chi^2$/NDF:20.8/23

All: 20.384+/-48.917 $\chi^2$/NDF: 44.2/42

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: 240.243+/-0.090 $\chi^2$/NDF:160659.2/4

Right Out: 171.835+/-0.055 $\chi^2$/NDF: 4314721.8/18

Left In: 222.688+/-0.099 $\chi^2$/NDF:73878.8/2

Left: 232.235+/-0.067 $\chi^2$/NDF: 251780.5/7

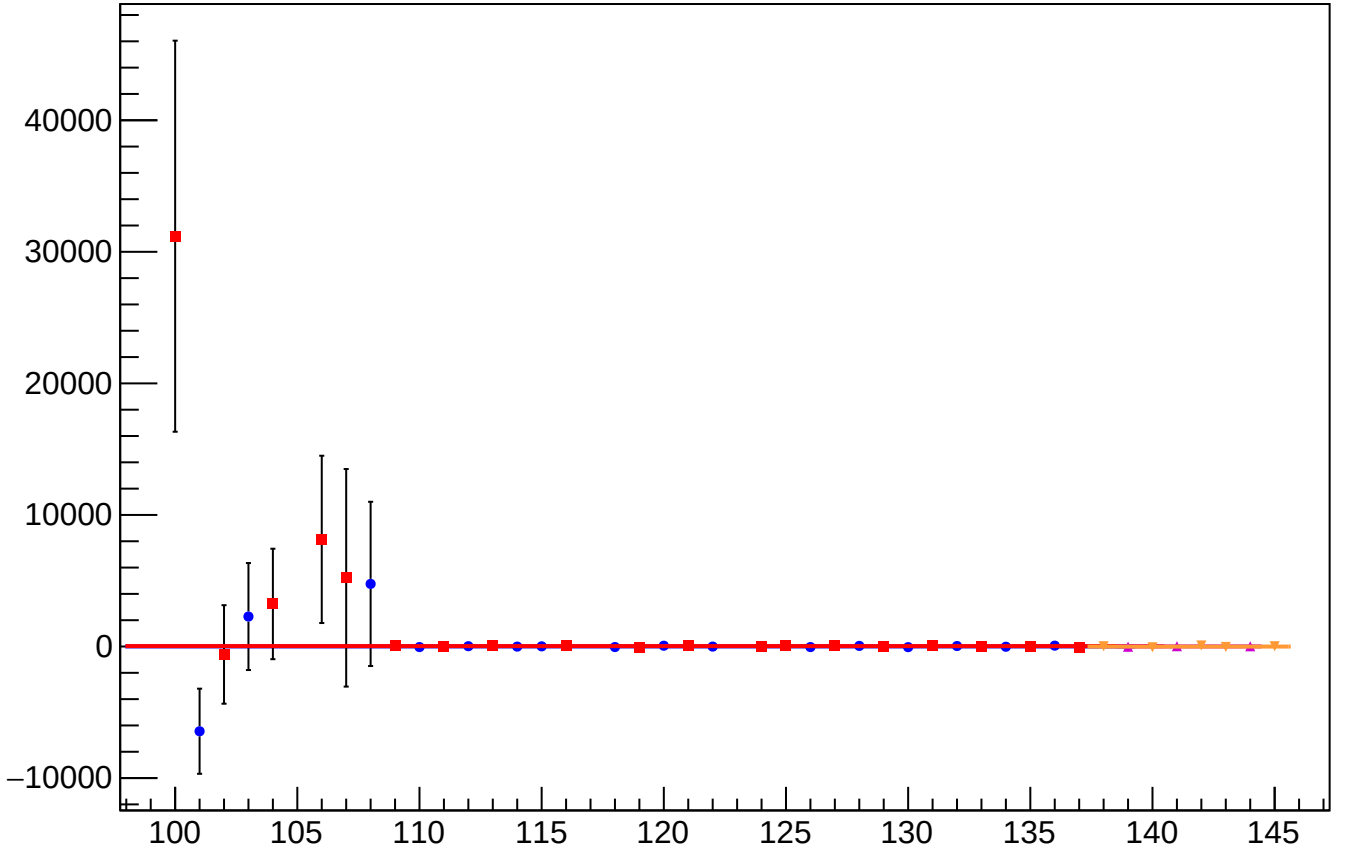
Right: 180.673+/-0.040 $\chi^2$/NDF: 8204752.1/34

In: 199.556+/-0.051 $\chi^2$/NDF:3983070.6/18

Out: 190.375+/-0.047 $\chi^2$/NDF:4893776.5/23

All: 194.585+/-0.035 $\chi^2$/NDF: 8894340.6/42

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: -3.743+/-15.505 $\chi^2$/NDF:8.1/4

Right Out: 30.962+/-11.902 $\chi^2$/NDF: 19.9/18

Left In: 8.790+/-17.772 $\chi^2$/NDF:1.0/2

Left: 1.674+/-11.683 $\chi^2$/NDF: 9.4/7

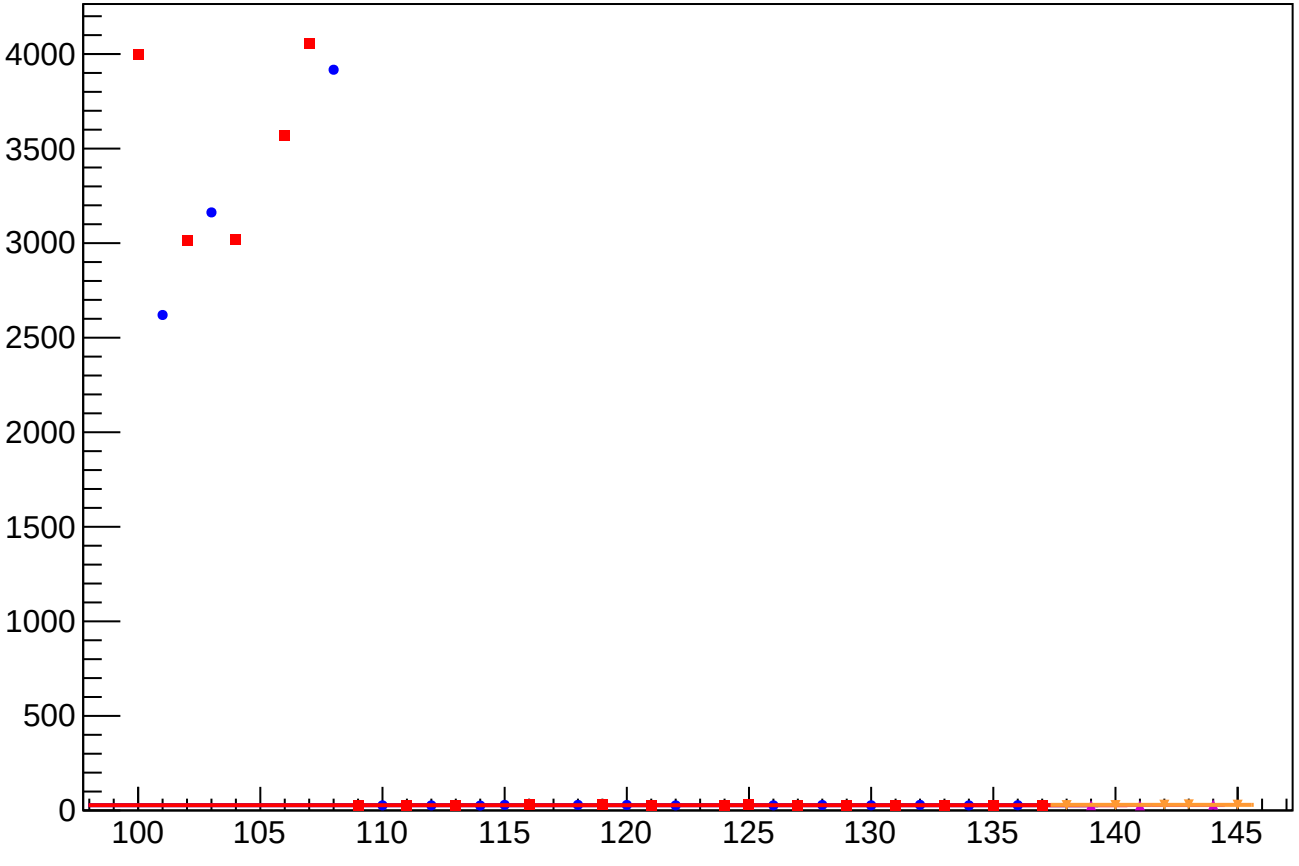
Right: 18.584+/-8.367 $\chi^2$/NDF: 40.3/34

In: 7.191+/-9.810 $\chi^2$/NDF:19.3/18

Out: 18.095+/-9.441 $\chi^2$/NDF:31.1/23

All: 12.852+/-6.802 $\chi^2$/NDF: 51.1/42

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: 29.614+/-0.011 $\chi^2$/NDF:18102.3/4

Right Out: 27.754+/-0.008 $\chi^2$/NDF: 3558676.9/18

Left In: 28.713+/-0.013 $\chi^2$/NDF:18121.8/2

Left: 29.225+/-0.008 $\chi^2$/NDF: 39144.2/7

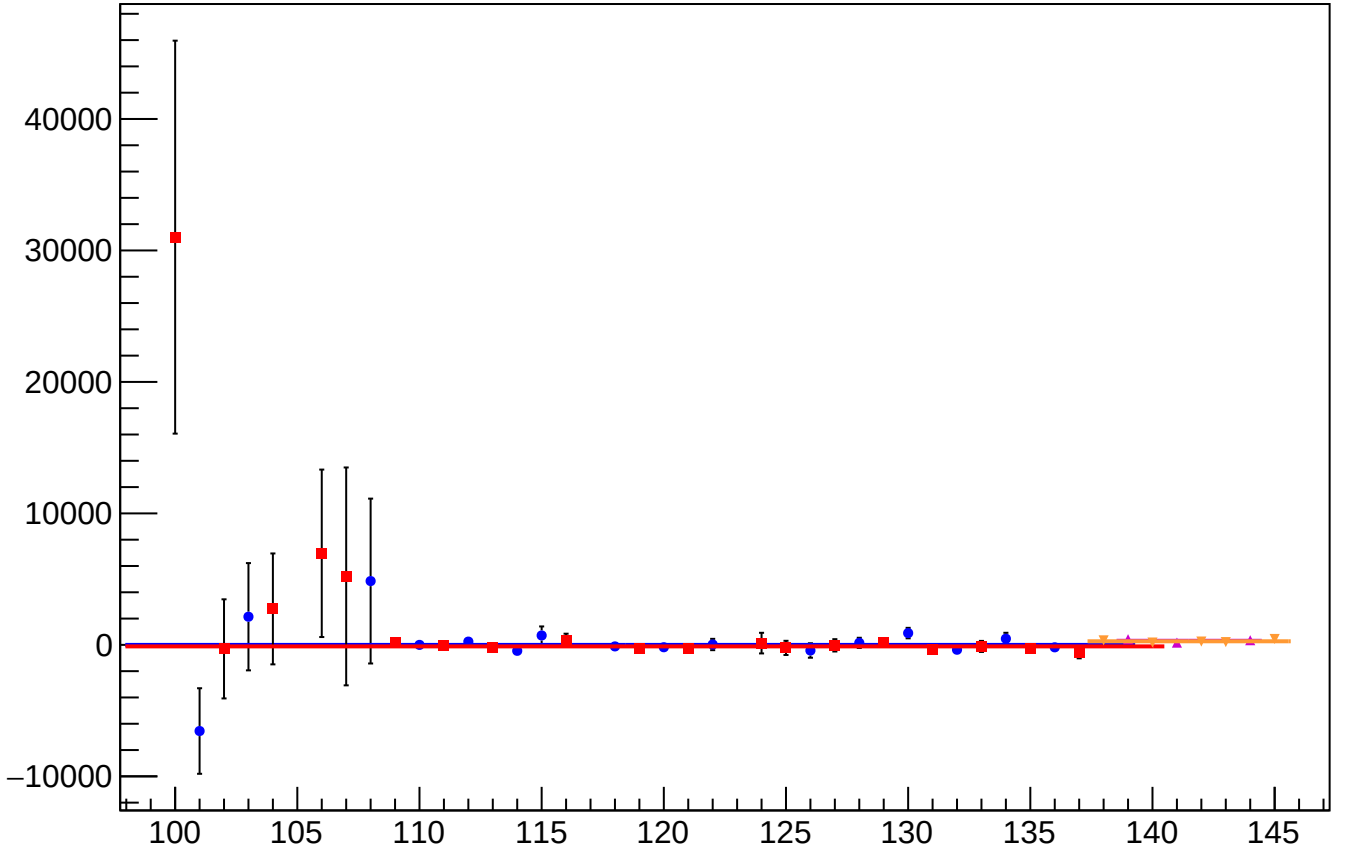
Right: 27.790+/-0.006 $\chi^2$/NDF: 6824608.5/34

In: 28.096+/-0.007 $\chi^2$/NDF:3287492.1/18

Out: 28.443+/-0.007 $\chi^2$/NDF:3594906.8/23

All: 28.276+/-0.005 $\chi^2$/NDF: 6883705.1/42

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -2.795+/-85.508 $\chi^2$/NDF: 18.2/15

Left Out: 272.944+/-129.417 $\chi^2$/NDF:0.5/4

Right Out: -115.753+/-78.952 $\chi^2$/NDF: 13.8/18

Left In: 310.438+/-141.289 $\chi^2$/NDF:0.7/2

Left: 290.050+/-95.433 $\chi^2$/NDF: 1.2/7

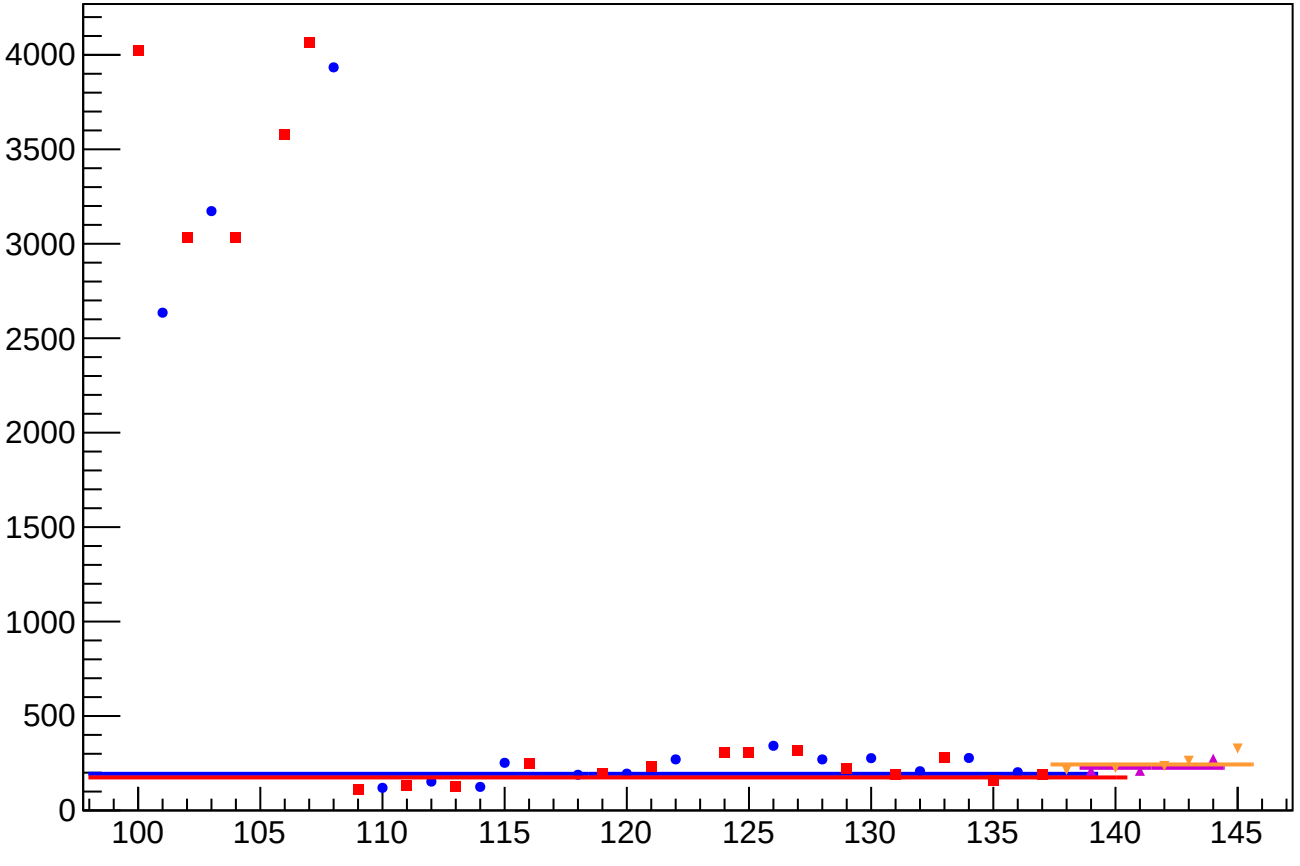
Right: -63.770+/-58.007 $\chi^2$/NDF: 33.0/34

In: 81.176+/-73.154 $\chi^2$/NDF:22.5/18

Out: -10.326+/-67.400 $\chi^2$/NDF:20.9/23

All: 31.685+/-49.569 $\chi^2$/NDF: 44.2/42

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 193.946+/-0.060 $\chi^2$/NDF: 3784467.5/15

Left Out: 243.559+/-0.092 $\chi^2$/NDF:156961.7/4

Right Out: 174.779+/-0.056 $\chi^2$/NDF: 4259323.6/18

Left In: 225.701+/-0.100 $\chi^2$/NDF:73049.8/2

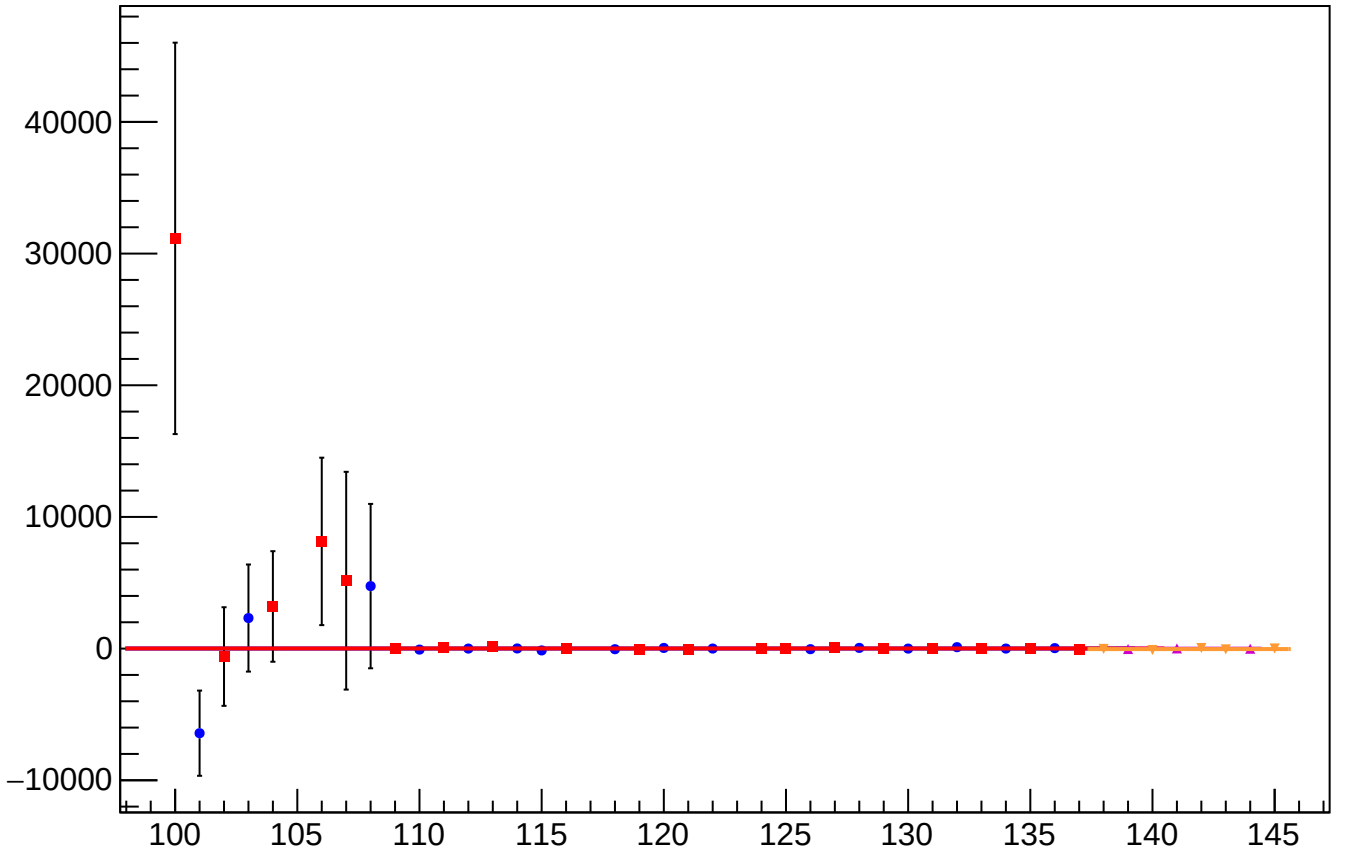
Left: 235.412+/-0.067 $\chi^2$/NDF: 247385.3/7

Right: 183.600+/-0.041 $\chi^2$/NDF: 8098034.9/34

In: 202.459+/-0.052 $\chi^2$/NDF:3931460.4/18

Out: 193.435+/-0.048 $\chi^2$/NDF:4827964.9/23

All: 197.578+/-0.035 $\chi^2$/NDF: 8775887.5/42




Right In: 5.660+/-14.306 $\chi^2$/NDF: 17.5/15

Left Out: -35.725+/-18.385 $\chi^2$/NDF:7.5/4

Right Out: 10.003+/-14.433 $\chi^2$/NDF: 23.4/18

Left In: -6.778+/-21.332 $\chi^2$/NDF:0.8/2

Left: -23.387+/-13.927 $\chi^2$/NDF: 9.3/7

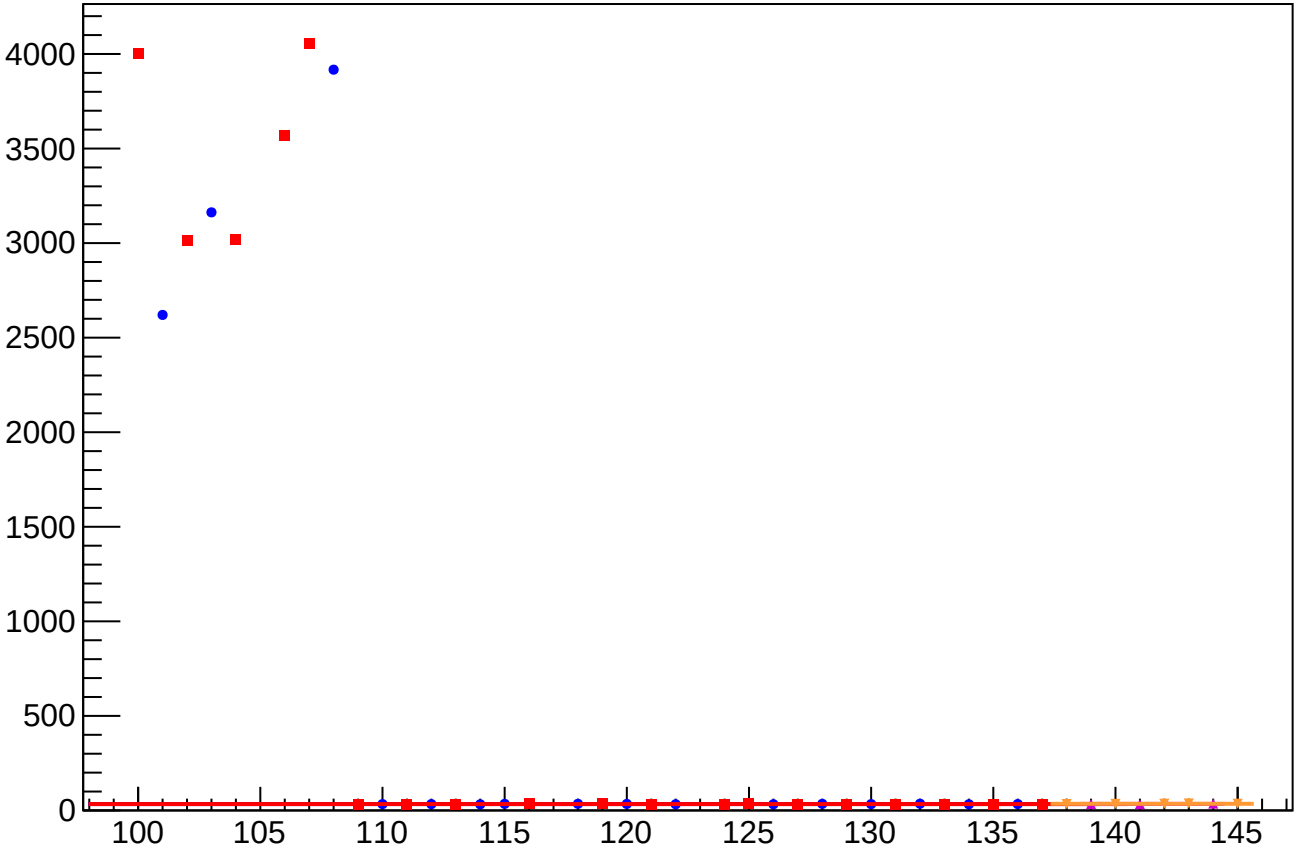
Right: 7.813+/-10.160 $\chi^2$/NDF: 40.9/34

In: 1.802+/-11.881 $\chi^2$/NDF:18.5/18

Out: -7.432+/-11.353 $\chi^2$/NDF:34.7/23

All: -3.025+/-8.208 $\chi^2$/NDF: 53.5/42

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: 35.212+/-0.013 $\chi^2$/NDF:6224.5/4

Right Out: 33.726+/-0.010 $\chi^2$/NDF: 3526463.8/18

Left In: 34.540+/-0.015 $\chi^2$/NDF:5838.7/2

Left: 34.926+/-0.010 $\chi^2$/NDF: 13203.4/7

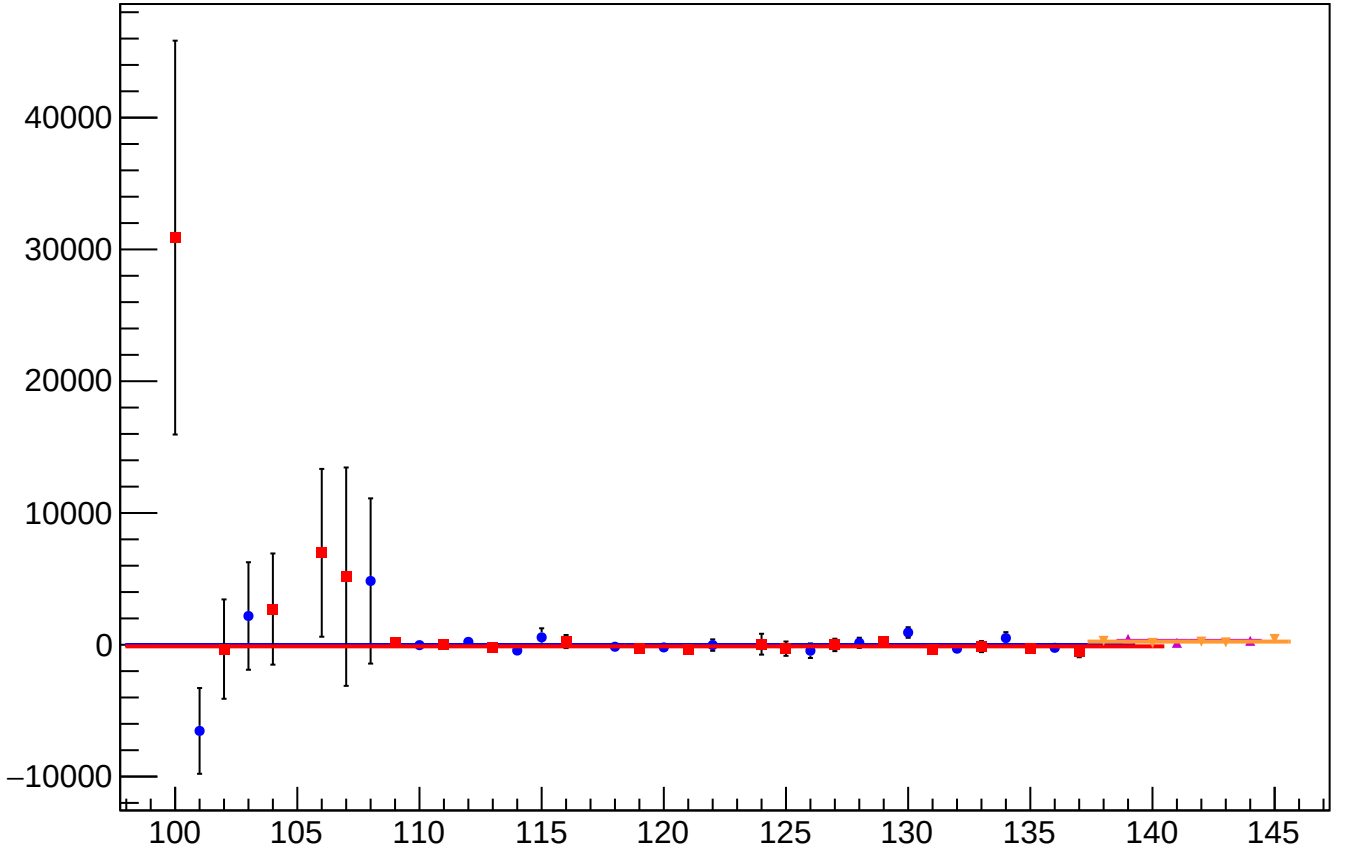
Right: 33.814+/-0.007 $\chi^2$/NDF: 6770991.8/34

In: 34.098+/-0.008 $\chi^2$/NDF:3251464.4/18

Out: 34.293+/-0.008 $\chi^2$/NDF:3540773.8/23

All: 34.200+/-0.006 $\chi^2$/NDF: 6792518.7/42

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: 241.862+/-128.351 $\chi^2$/NDF:0.6/4

Right Out: -119.922+/-78.455 $\chi^2$/NDF: 13.3/18

Left In: 295.512+/-140.214 $\chi^2$/NDF:0.9/2

Left: 266.322+/-94.674 $\chi^2$/NDF: 1.5/7

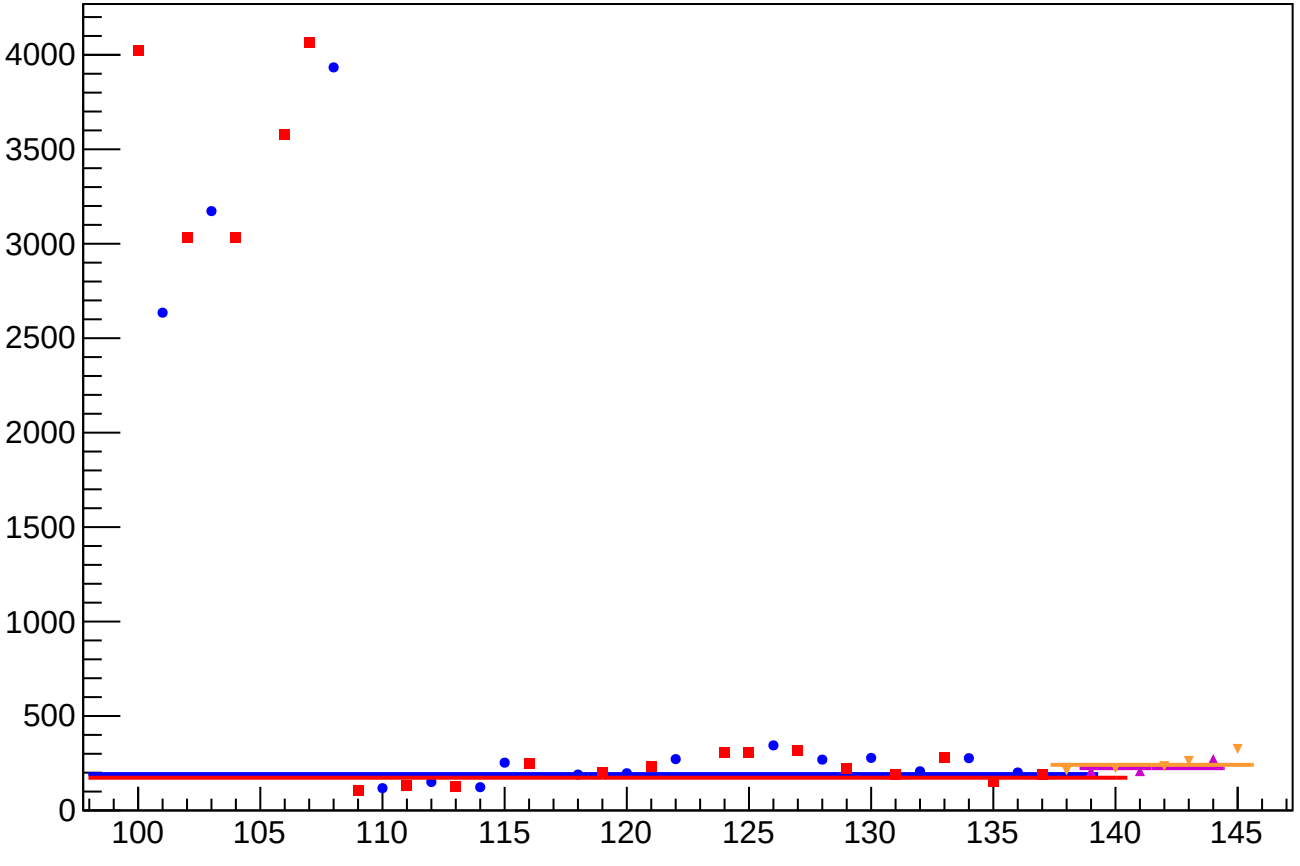
Right: -73.773+/-57.671 $\chi^2$/NDF: 32.2/34

In: 65.231+/-72.726 $\chi^2$/NDF:22.7/18

Out: -21.516+/-66.940 $\chi^2$/NDF:19.6/23

All: 18.270+/-49.252 $\chi^2$/NDF: 43.1/42

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: 241.483+/-0.091 $\chi^2$/NDF:160204.6/4

Right Out: 173.249+/-0.055 $\chi^2$/NDF: 4307420.2/18

Left In: 223.955+/-0.099 $\chi^2$/NDF:73418.4/2

Left: 233.492+/-0.067 $\chi^2$/NDF: 250627.6/7

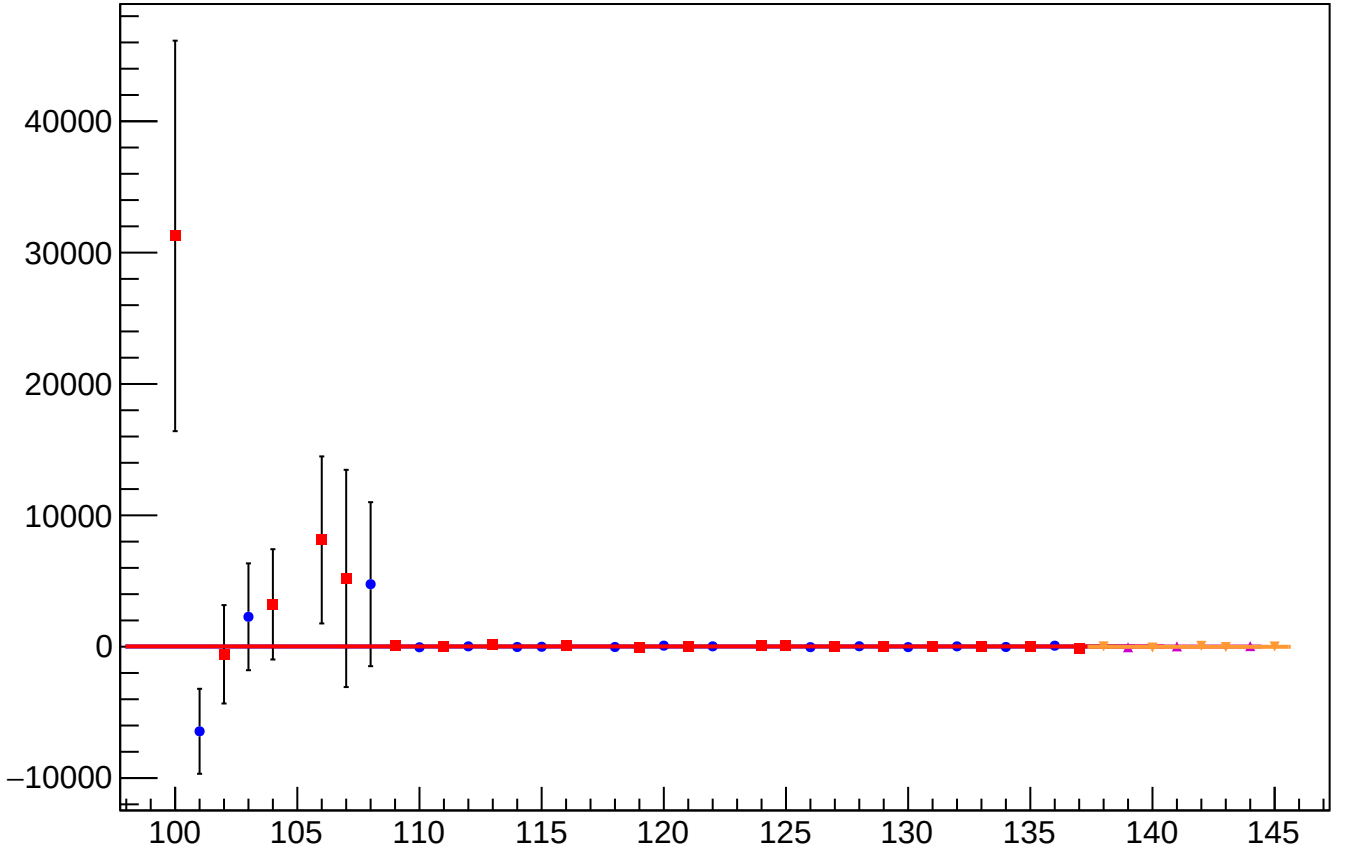
Right: 182.125+/-0.041 $\chi^2$/NDF: 8185907.1/34

In: 201.006+/-0.051 $\chi^2$/NDF:3969502.6/18

Out: 191.809+/-0.047 $\chi^2$/NDF:4879120.9/23

All: 196.027+/-0.035 $\chi^2$/NDF: 8865940.4/42

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: -6.917+/-16.946 $\chi^2$/NDF:6.5/4

Right Out: 23.230+/-13.181 $\chi^2$/NDF: 28.7/18

Left In: 10.439+/-19.441 $\chi^2$/NDF:3.6/2

Left: 0.576+/-12.774 $\chi^2$/NDF: 10.6/7

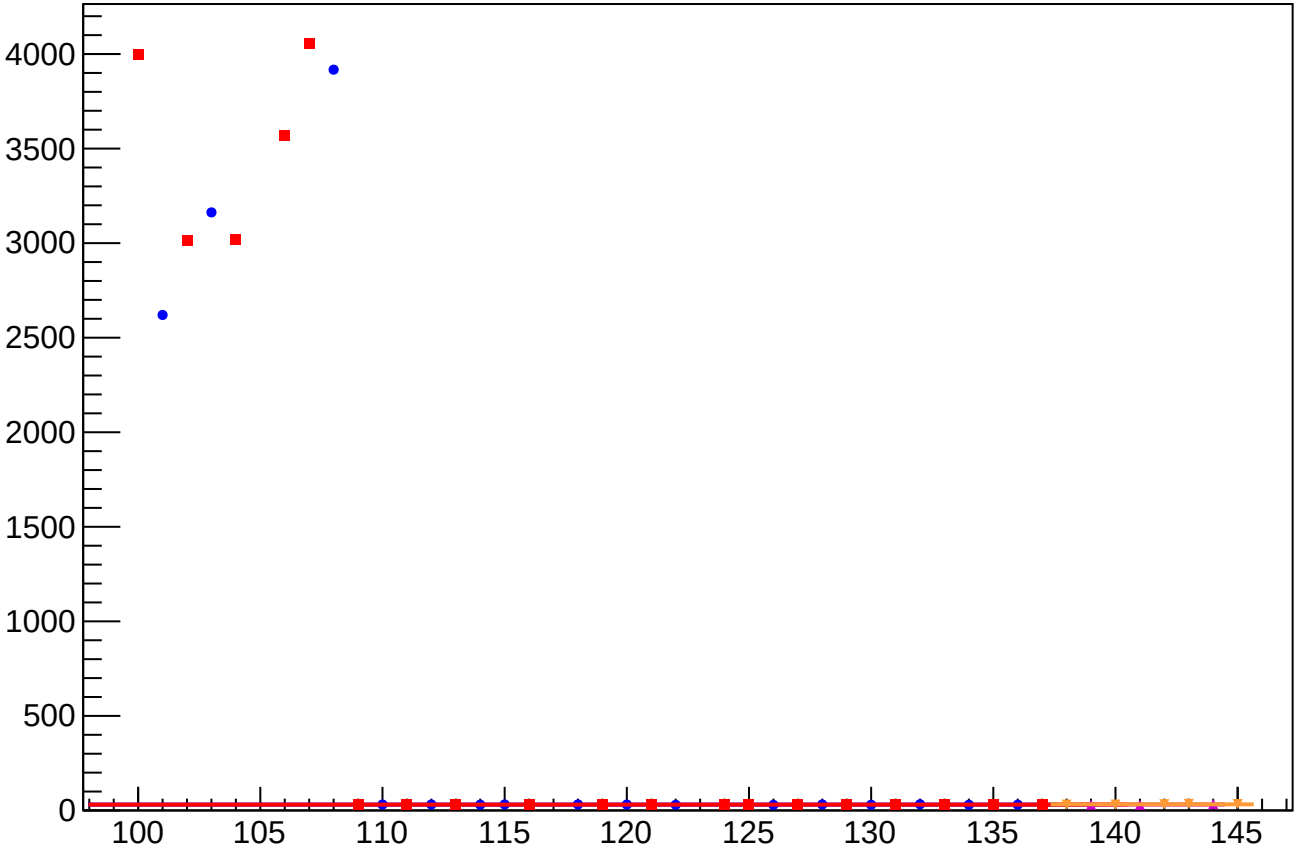
Right: 18.428+/-9.278 $\chi^2$/NDF: 44.4/34

In: 12.695+/-10.842 $\chi^2$/NDF:19.1/18

Out: 11.866+/-10.404 $\chi^2$/NDF:37.2/23

All: 12.263+/-7.507 $\chi^2$/NDF: 56.3/42

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: 32.401+/-0.012 $\chi^2$/NDF:17658.3/4

Right Out: 30.777+/-0.009 $\chi^2$/NDF: 3536234.6/18

Left In: 31.442+/-0.014 $\chi^2$/NDF:14658.5/2

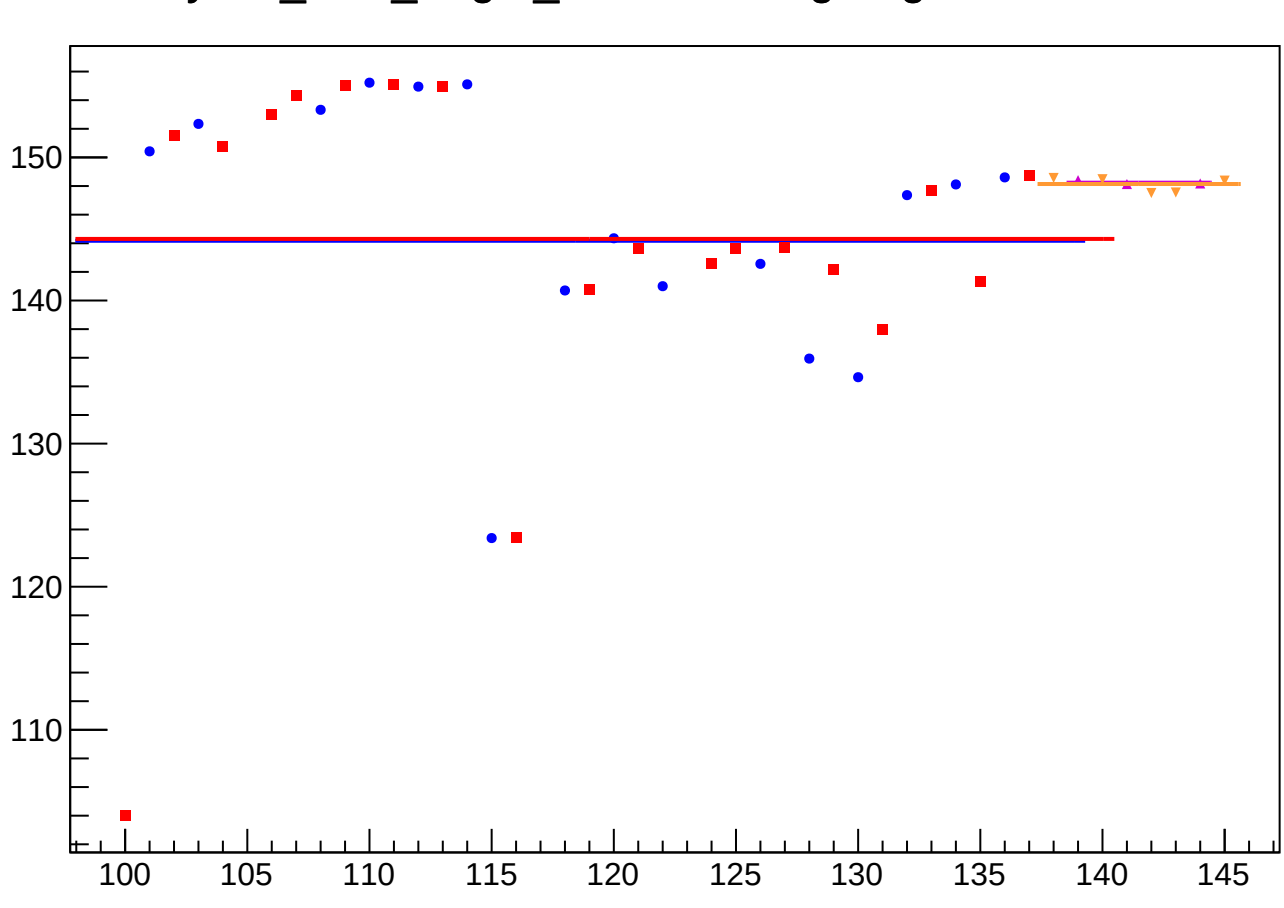
Left: 31.987+/-0.009 $\chi^2$/NDF: 35078.7/7

Right: 30.853+/-0.007 $\chi^2$/NDF: 6788975.5/34

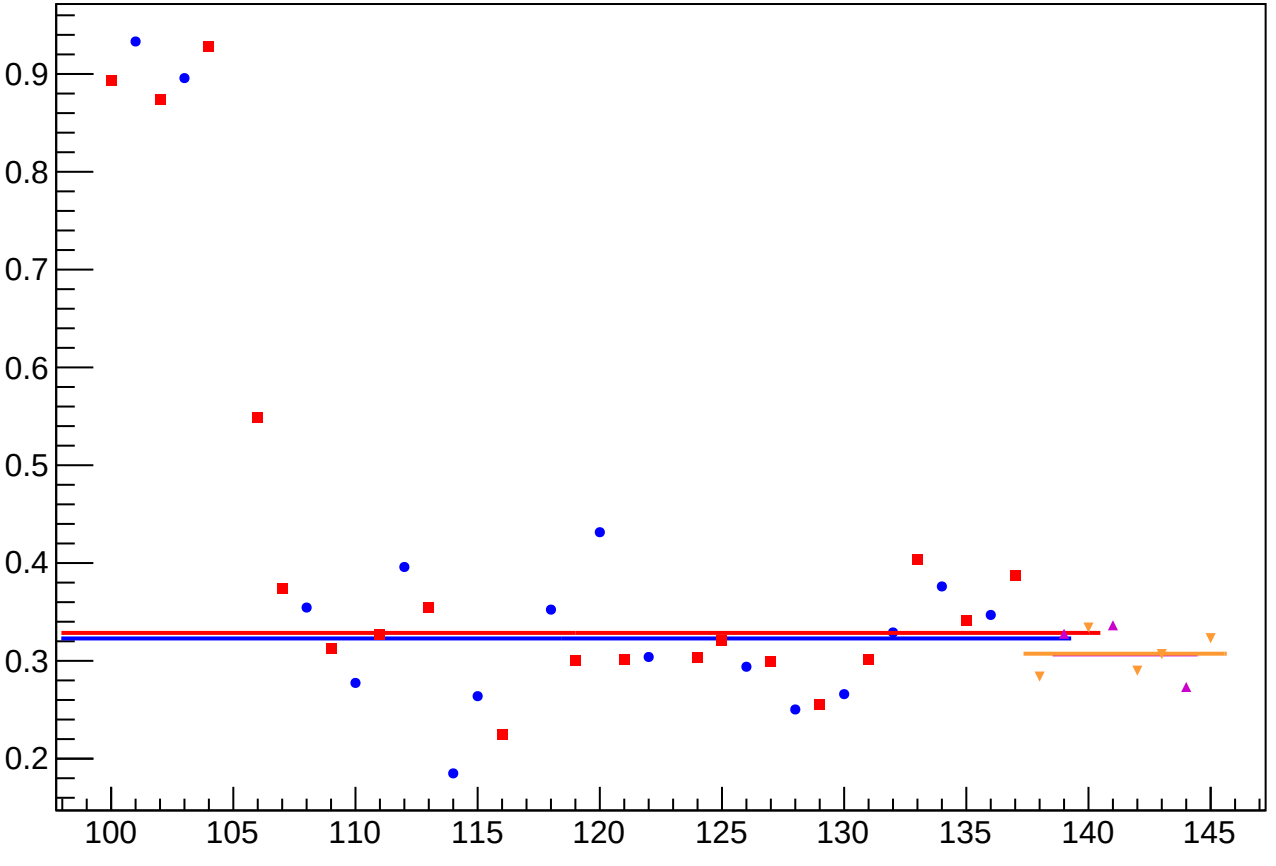
In: 31.088+/-0.008 $\chi^2$/NDF:3268229.4/18

Out: 31.389+/-0.007 $\chi^2$/NDF:3565334.3/23

All: 31.245+/-0.005 $\chi^2$/NDF: 6834365.2/42


yield_bcm_target_mean vs Slug, Sign Corrected
150
140
130
120
110
100
105
110
115
120
125
130
135
140
145
Right In: 144.176+/-0.000 χ²/NDF: 3724747268.7/15
Left Out: 148.142+/-0.000 χ²/NDF:7772747.4/4
Right Out: 144.304+/-0.000 χ²/NDF: 4264494940.7/18
Left In: 148.234+/-0.000 χ²/NDF:336770.6/2
Left: 148.181+/-0.000 χ²/NDF: 8242597.6/7
Right: 144.240+/-0.000 χ²/NDF: 7989709366.0/34
In: 145.470+/-0.000 χ²/NDF:4024804067.2/18
Out: 145.824+/-0.000 χ²/NDF:4601488875.3/23
All: 145.657+/-0.000 χ²/NDF: 8631818398.2

# yield_bcm_target_rms vs Slug, Sign Corrected




Right In: 0.323+/-0.000 $\chi^2$/NDF: 1396024.1/15

Left Out: 0.307+/-0.000 $\chi^2$/NDF:27346.7/4

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1304148.7/18

Left In: 0.307+/-0.000 $\chi^2$/NDF:45827.5/2

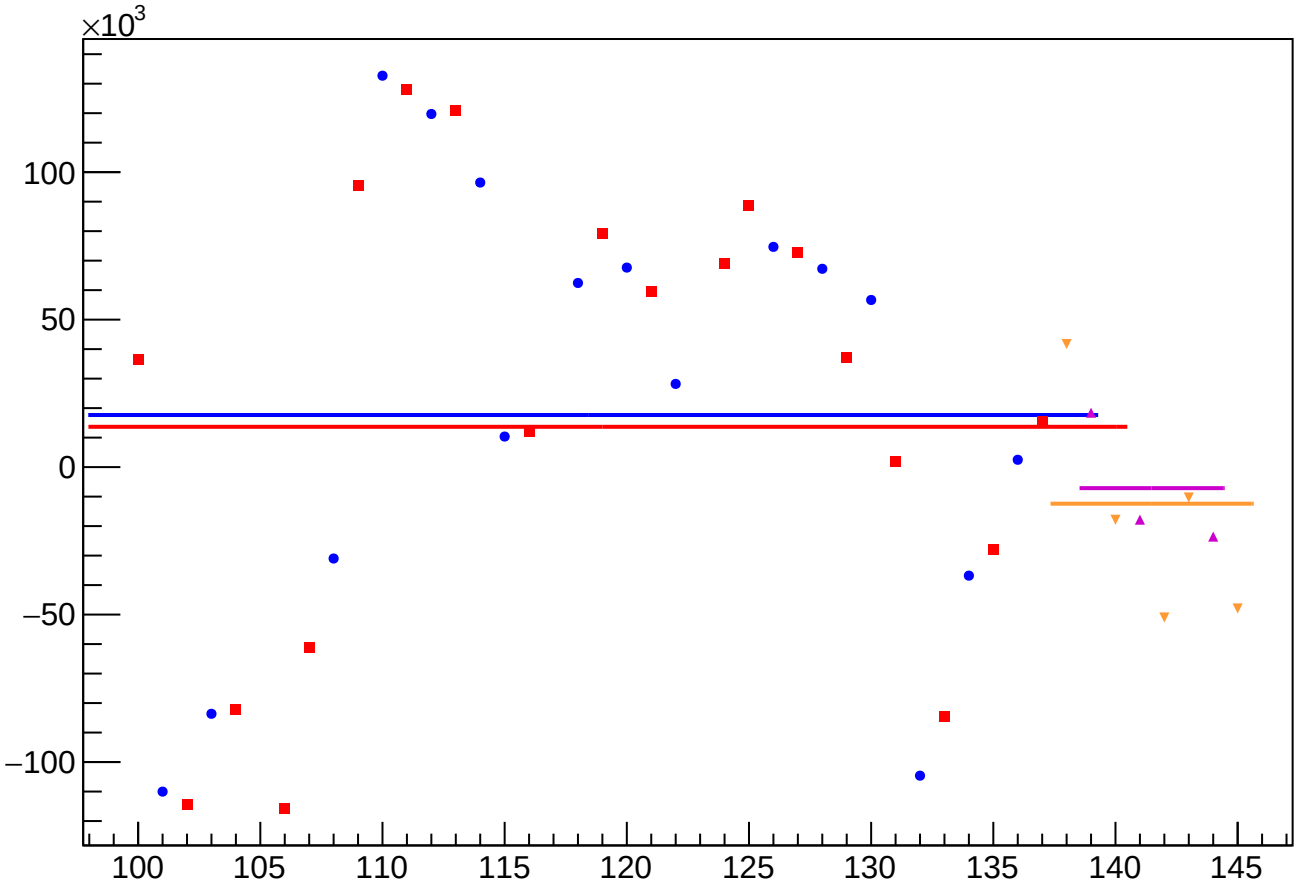
Left: 0.307+/-0.000 $\chi^2$/NDF: 73189.0/7

Right: 0.326+/-0.000 $\chi^2$/NDF: 2702003.2/34

In: 0.318+/-0.000 $\chi^2$/NDF:1451496.9/18

Out: 0.320+/-0.000 $\chi^2$/NDF:1351714.8/23

All: 0.319+/-0.000 $\chi^2$/NDF: 2803742.0/42




Right In: 17663.790+/-2.006 $\chi^2$/NDF: 1398738701.8/15

Left Out: -12402.753+/-2.663 $\chi^2$/NDF:168753727.6/4

Right Out: 13666.312+/-1.925 $\chi^2$/NDF: 1856962869.6/18

Left In: -7130.204+/-3.129 $\chi^2$/NDF:36038156.5/2

Left: -10188.107+/-2.028 $\chi^2$/NDF: 206439074.2/7

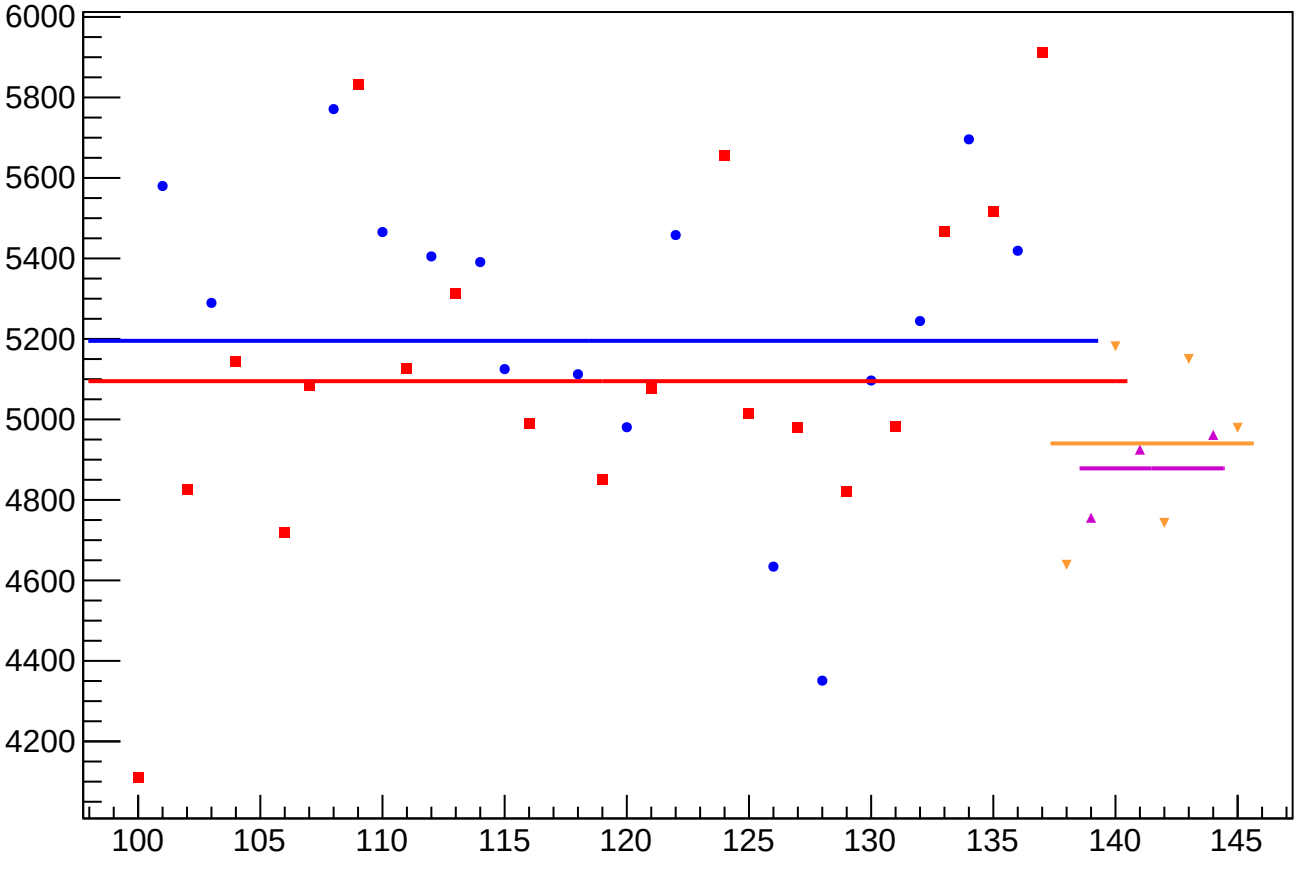
Right: 15583.102+/-1.389 $\chi^2$/NDF: 3257769505.5/3

In: 10442.741+/-1.688 $\chi^2$/NDF:1479290232.2/18

Out: 4717.670+/-1.560 $\chi^2$/NDF:2088675733.1/23

All: 7354.131+/-1.146 $\chi^2$/NDF: 3574168789.

# yield_bcm_an_diff_rms vs Slug, Sign Corrected




Right In: 5195.298+/-1.418 $\chi^2$/NDF: 77166.0/15

Left Out: 4940.359+/-1.883 $\chi^2$/NDF:13774.4/4

Right Out: 5095.047+/-1.361 $\chi^2$/NDF: 59112.0/18

Left In: 4878.327+/-2.212 $\chi^2$/NDF:1675.0/2

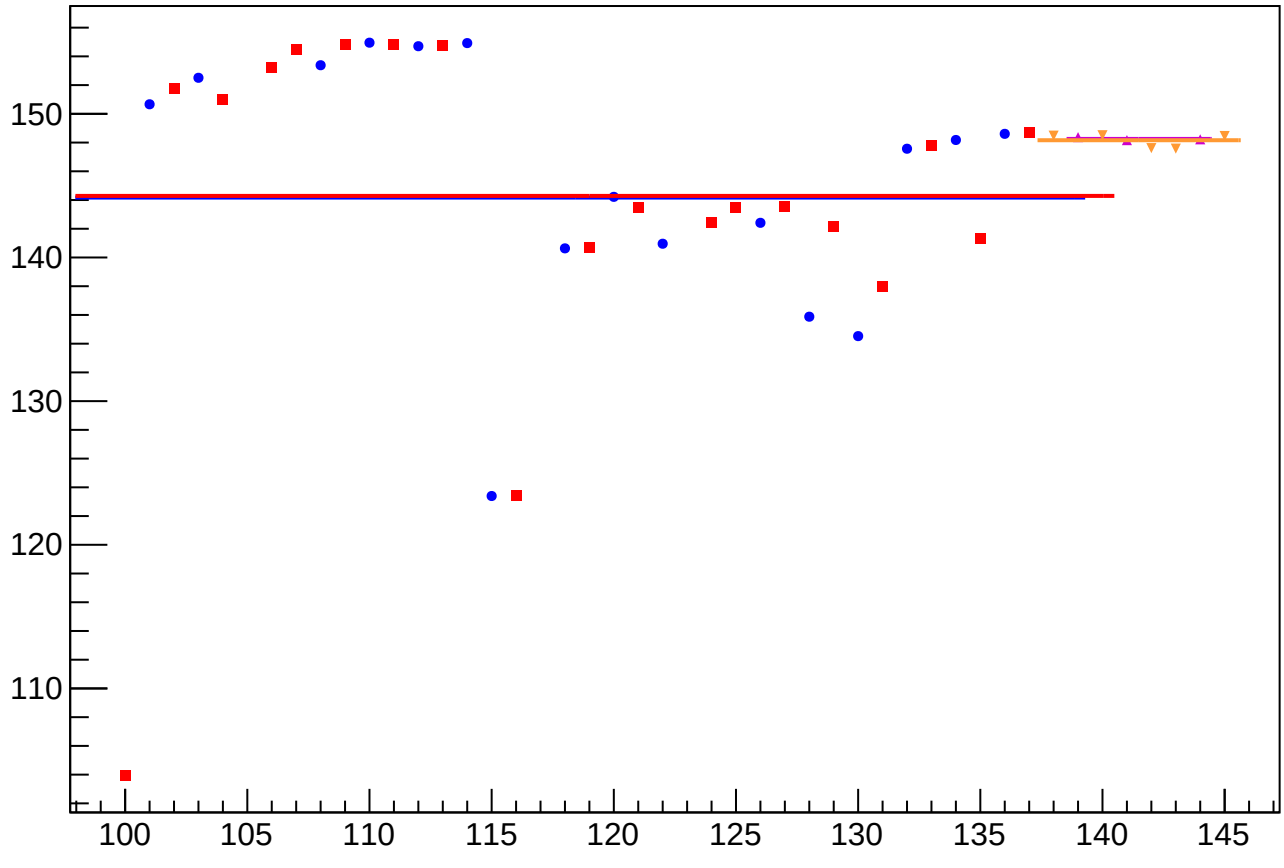
Left: 4914.303+/-1.434 $\chi^2$/NDF: 15905.4/7

Right: 5143.118+/-0.982 $\chi^2$/NDF: 138879.2/34

In: 5102.983+/-1.194 $\chi^2$/NDF:93391.2/18

Out: 5041.948+/-1.103 $\chi^2$/NDF:77319.9/23

All: 5070.055+/-0.810 $\chi^2$/NDF: 172121.1/42




Right In: 144.172+/-0.000 $\chi^2$/NDF: 3764836520.0/15

Left Out: 148.162+/-0.000 $\chi^2$/NDF:6849521.3/4

Right Out: 144.286+/-0.000 $\chi^2$/NDF: 4290223847.7/18

Left In: 148.253+/-0.000 $\chi^2$/NDF:182051.9/2

Left: 148.200+/-0.000 $\chi^2$/NDF: 7160503.4/7

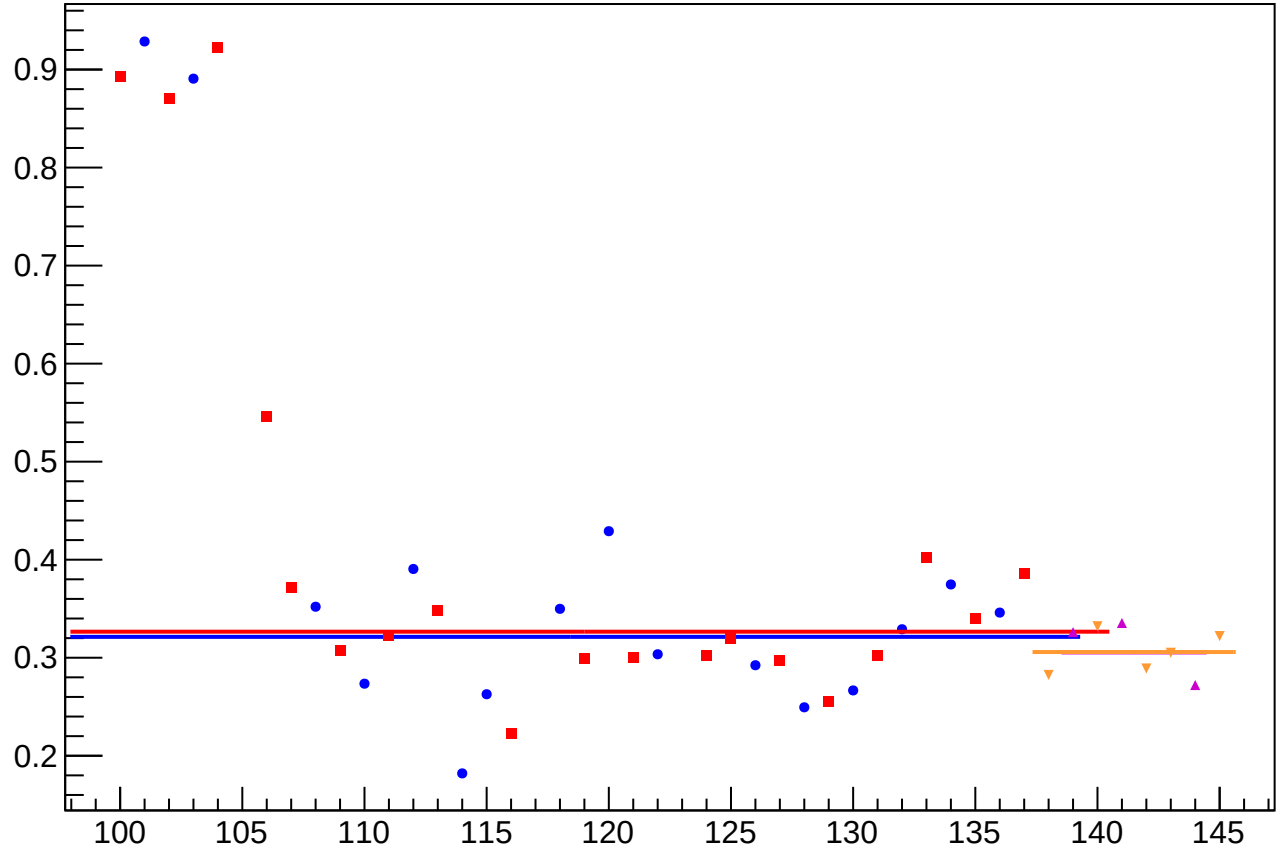
Right: 144.229+/-0.000 $\chi^2$/NDF: 8055437753.5/34

In: 145.471+/-0.000 $\chi^2$/NDF:4070701061.5/18

Out: 145.819+/-0.000 $\chi^2$/NDF:4636542398.7/23

All: 145.655+/-0.000 $\chi^2$/NDF: 8712653687.1

# yield_bcm_an_ds_rms vs Slug, Sign Corrected




Right In: 0.321+/-0.000 $\chi^2$/NDF: 1396250.7/15

Left Out: 0.306+/-0.000 $\chi^2$/NDF:27272.9/4

Right Out: 0.327+/-0.000 $\chi^2$/NDF: 1302732.4/18

Left In: 0.305+/-0.000 $\chi^2$/NDF:46130.7/2

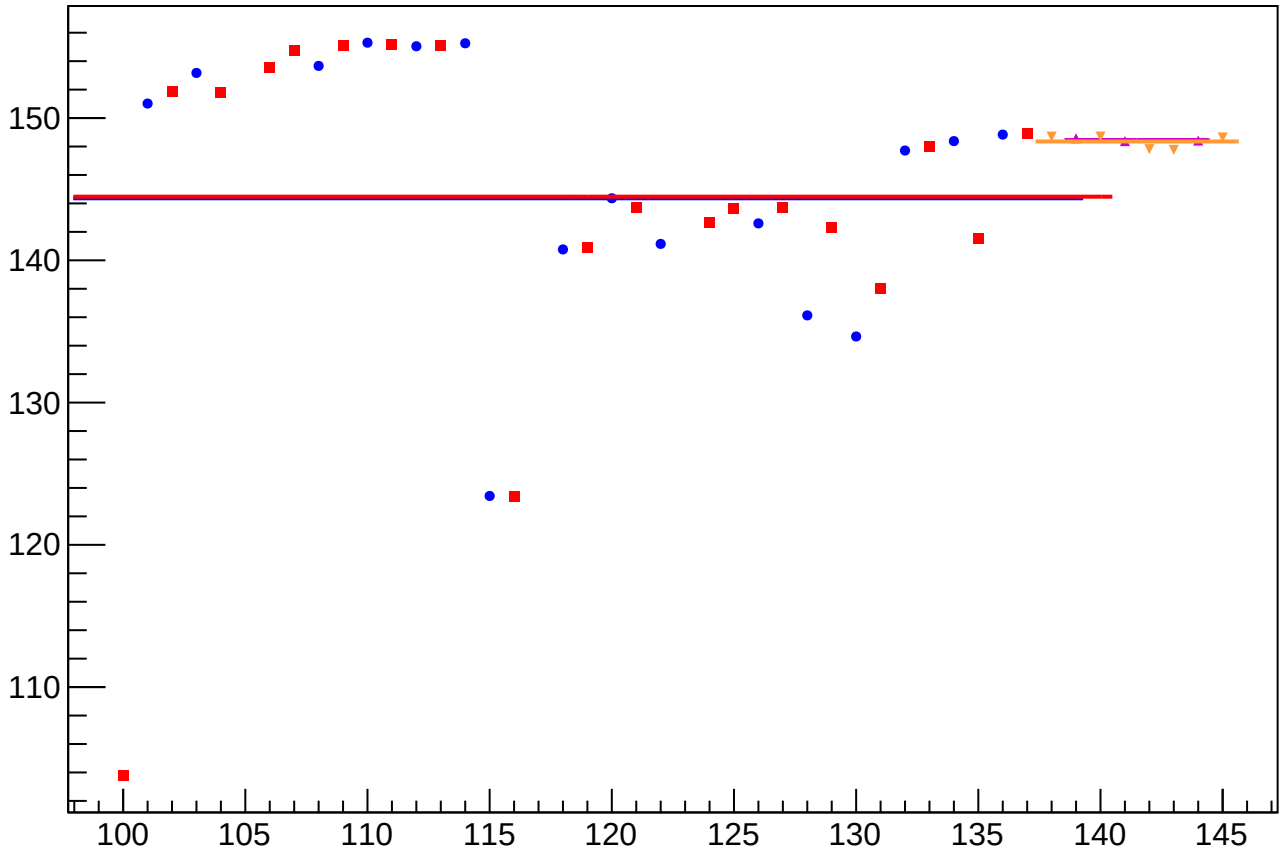
Left: 0.306+/-0.000 $\chi^2$/NDF: 73408.9/7

Right: 0.324+/-0.000 $\chi^2$/NDF: 2700575.6/34

In: 0.316+/-0.000 $\chi^2$/NDF:1451649.6/18

Out: 0.318+/-0.000 $\chi^2$/NDF:1349456.0/23

All: 0.317+/-0.000 $\chi^2$/NDF: 2801507.7/42




Right In: 144.361+/-0.000 $\chi^2$/NDF: 3758625293.6/15

Left Out: 148.354+/-0.000 $\chi^2$/NDF:6883751.3/4

Right Out: 144.475+/-0.000 $\chi^2$/NDF: 4281975463.8/18

Left In: 148.456+/-0.000 $\chi^2$/NDF:173802.0/2

Left: 148.397+/-0.000 $\chi^2$/NDF: 7217183.9/7

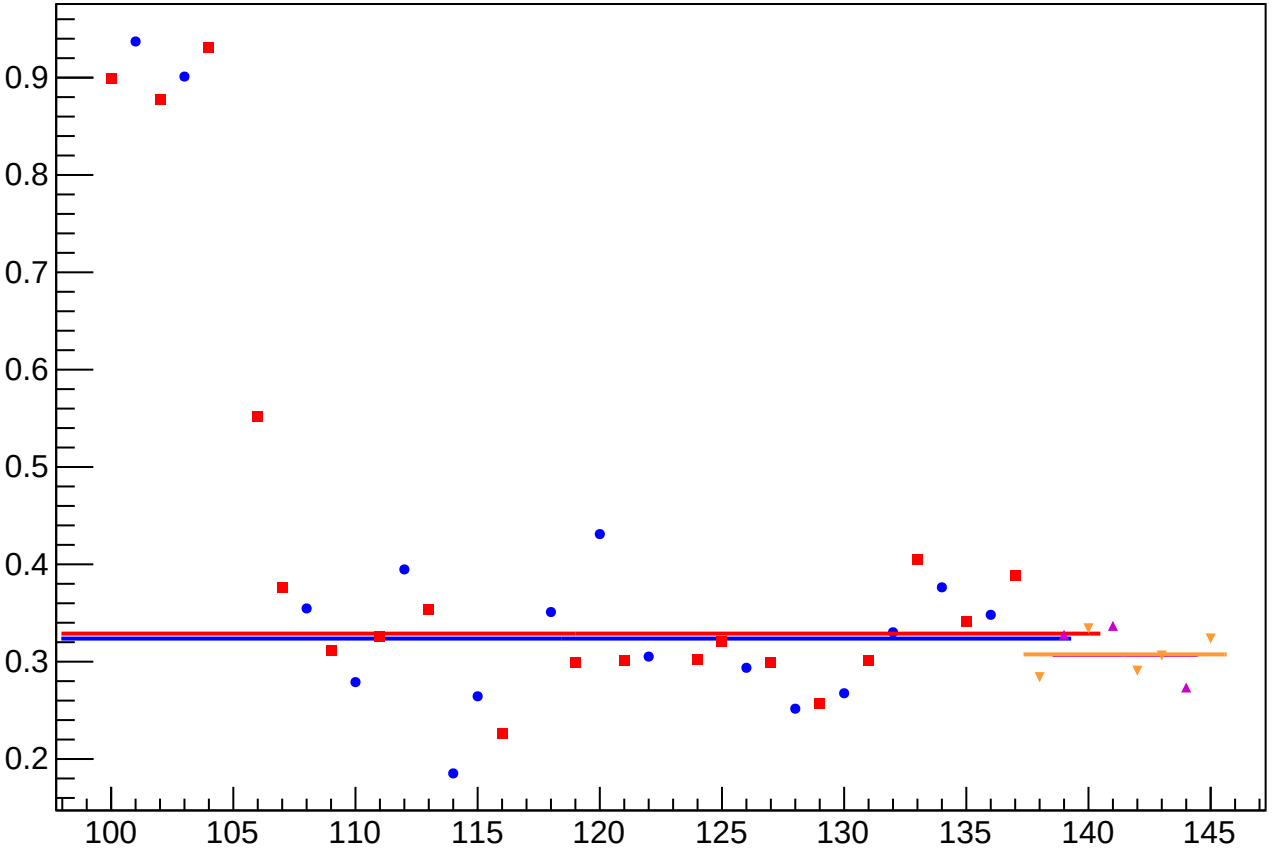
Right: 144.417+/-0.000 $\chi^2$/NDF: 8040967165.8/34

In: 145.669+/-0.000 $\chi^2$/NDF:4063062315.5/18

Out: 146.011+/-0.000 $\chi^2$/NDF:4624899834.6/23

All: 145.850+/-0.000 $\chi^2$/NDF: 8693136450.4

# yield_bcm_an_ds3_rms vs Slug, Sign Corrected




Right In: 0.324+/-0.000 $\chi^2$/NDF: 1392377.9/15

Left Out: 0.307+/-0.000 $\chi^2$/NDF:27418.3/4

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1303222.2/18

Left In: 0.307+/-0.000 $\chi^2$/NDF:45790.8/2

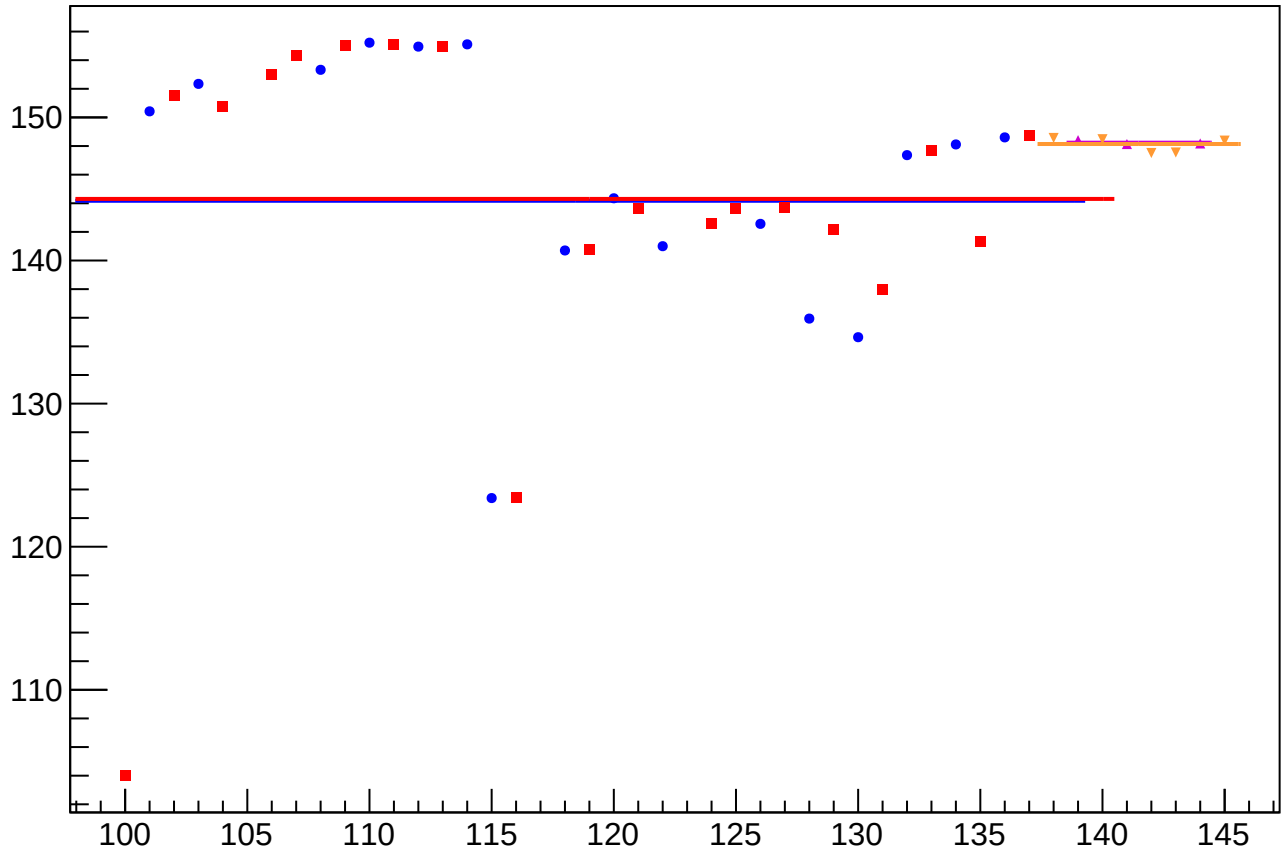
Left: 0.307+/-0.000 $\chi^2$/NDF: 73221.6/7

Right: 0.326+/-0.000 $\chi^2$/NDF: 2697075.5/34

In: 0.318+/-0.000 $\chi^2$/NDF:1448504.6/18

Out: 0.320+/-0.000 $\chi^2$/NDF:1350988.9/23

All: 0.319+/-0.000 $\chi^2$/NDF: 2799860.4/42




Right In: 144.176+/-0.000 $\chi^2$/NDF: 3724747268.7/15

Left Out: 148.142+/-0.000 $\chi^2$/NDF:7772747.4/4

Right Out: 144.304+/-0.000 $\chi^2$/NDF: 4264494940.7/18

Left In: 148.234+/-0.000 $\chi^2$/NDF:336770.6/2

Left: 148.181+/-0.000 $\chi^2$/NDF: 8242597.6/7

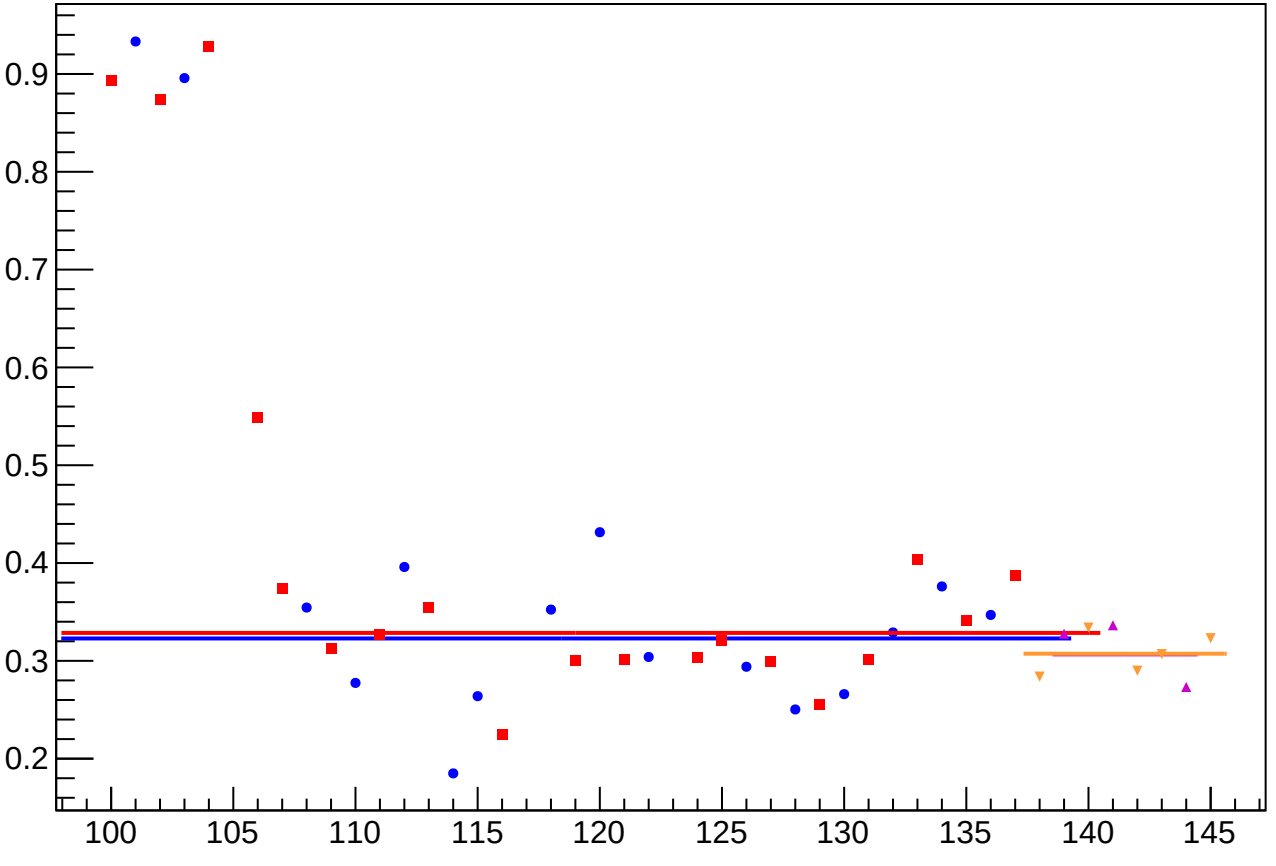
Right: 144.240+/-0.000 $\chi^2$/NDF: 7989709366.0/34

In: 145.470+/-0.000 $\chi^2$/NDF:4024804067.2/18

Out: 145.824+/-0.000 $\chi^2$/NDF:4601488875.3/23

All: 145.657+/-0.000 $\chi^2$/NDF: 8631818398.2

# yield_bcm_an_us_rms vs Slug, Sign Corrected




Right In: 0.323+/-0.000 $\chi^2$/NDF: 1396024.1/15

Left Out: 0.307+/-0.000 $\chi^2$/NDF:27346.7/4

Right Out: 0.329+/-0.000 $\chi^2$/NDF: 1304148.7/18

Left In: 0.307+/-0.000 $\chi^2$/NDF:45827.5/2

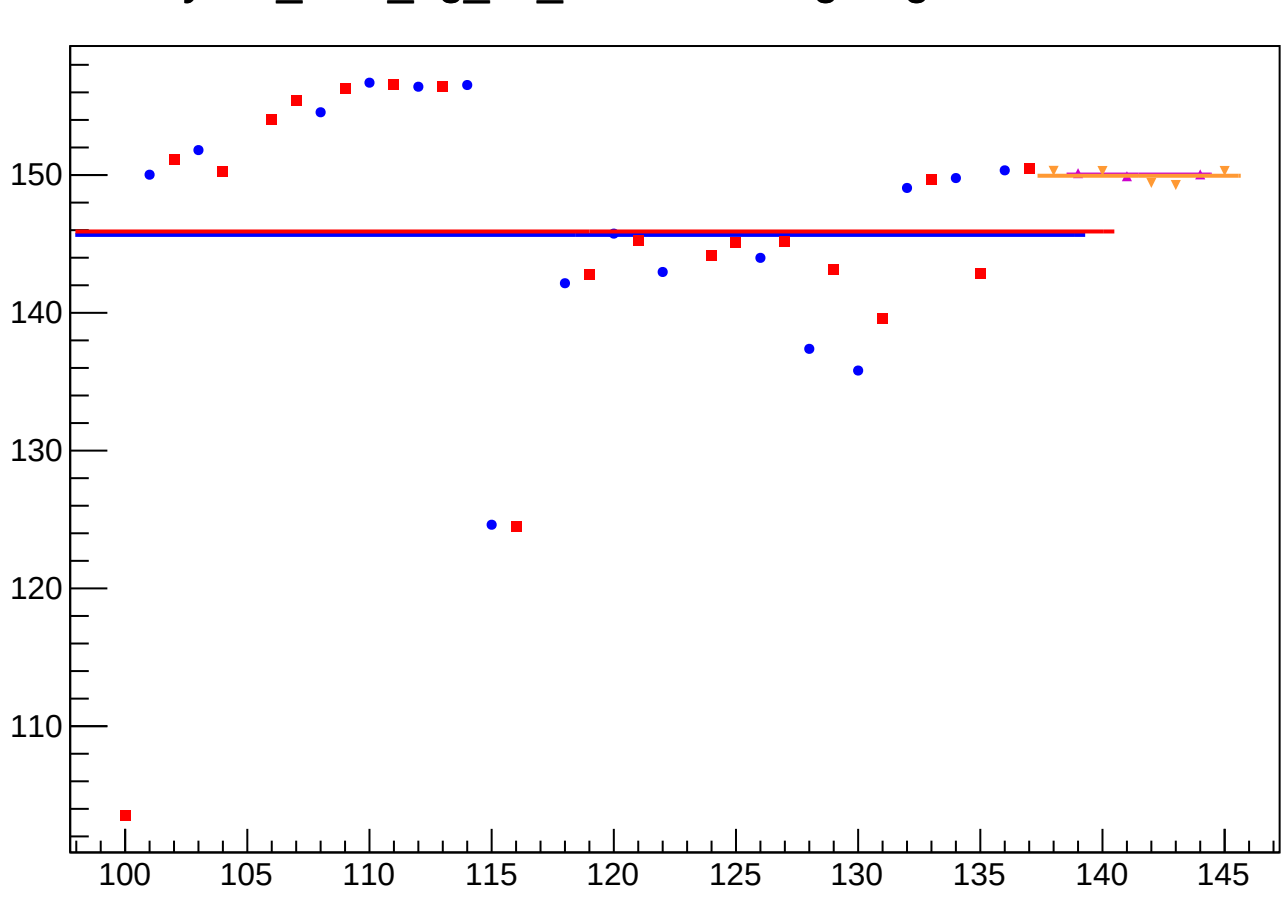
Left: 0.307+/-0.000 $\chi^2$/NDF: 73189.0/7

Right: 0.326+/-0.000 $\chi^2$/NDF: 2702003.2/34

In: 0.318+/-0.000 $\chi^2$/NDF:1451496.9/18

Out: 0.320+/-0.000 $\chi^2$/NDF:1351714.8/23

All: 0.319+/-0.000 $\chi^2$/NDF: 2803742.0/42




Right In: 145.657+/-0.000 $\chi^2$/NDF: 3481495345.2/15

Left Out: 149.950+/-0.000 $\chi^2$/NDF:6815024.6/4

Right Out: 145.904+/-0.000 $\chi^2$/NDF: 3863011865.2/18

Left In: 150.035+/-0.000 $\chi^2$/NDF:163125.3/2

Left: 149.985+/-0.000 $\chi^2$/NDF: 7074017.9/7

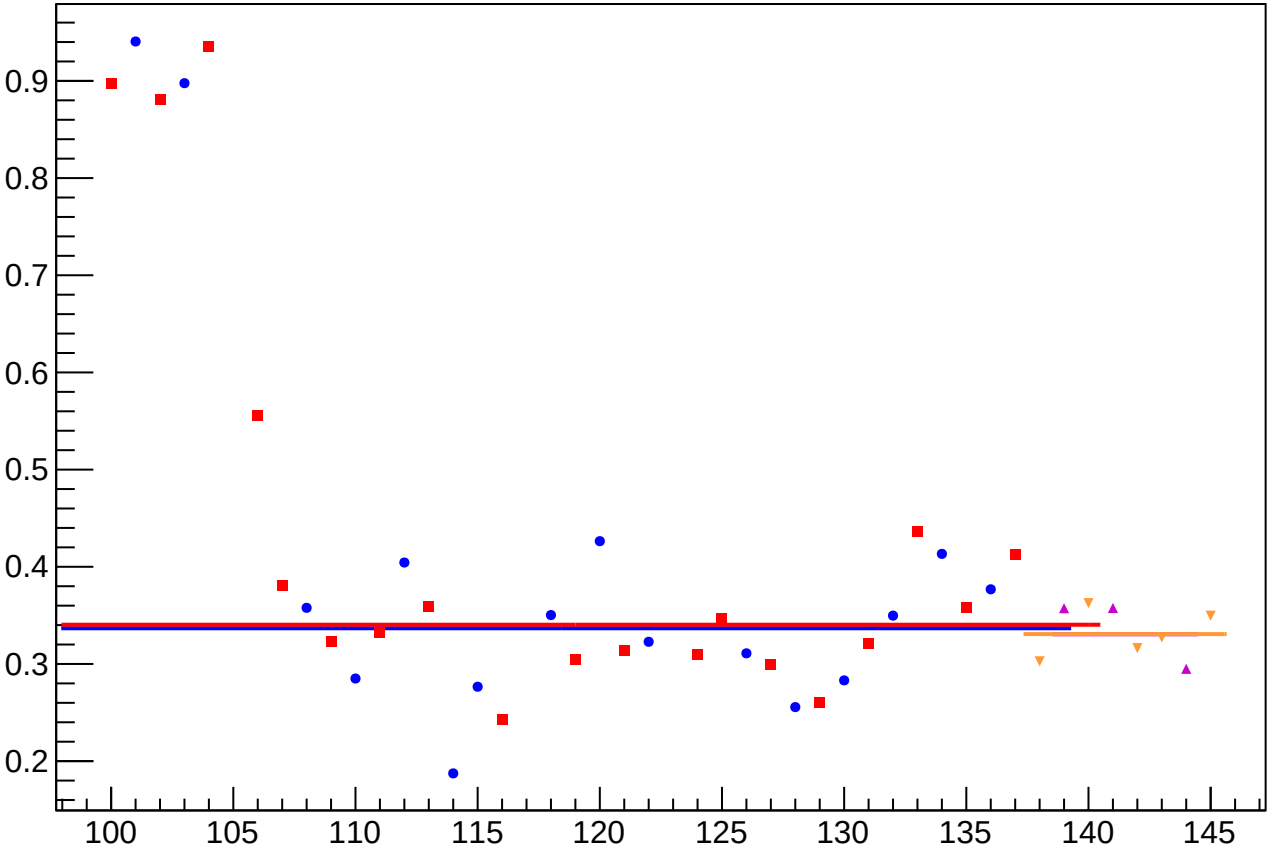
Right: 145.781+/-0.000 $\chi^2$/NDF: 7346117767.9/34

In: 146.985+/-0.000 $\chi^2$/NDF:3786684559.3/18

Out: 147.422+/-0.000 $\chi^2$/NDF:4192593701.1/23

All: 147.216+/-0.000 $\chi^2$/NDF: 7986855083.7

# yield_bcm_dg_us_rms vs Slug, Sign Corrected




Right In: 0.337+/-0.000 $\chi^2$/NDF: 1370512.1/15

Left Out: 0.331+/-0.000 $\chi^2$/NDF:31372.1/4

Right Out: 0.340+/-0.000 $\chi^2$/NDF: 1274717.4/18

Left In: 0.331+/-0.000 $\chi^2$/NDF:43776.5/2

Left: 0.331+/-0.000 $\chi^2$/NDF: 75149.4/7

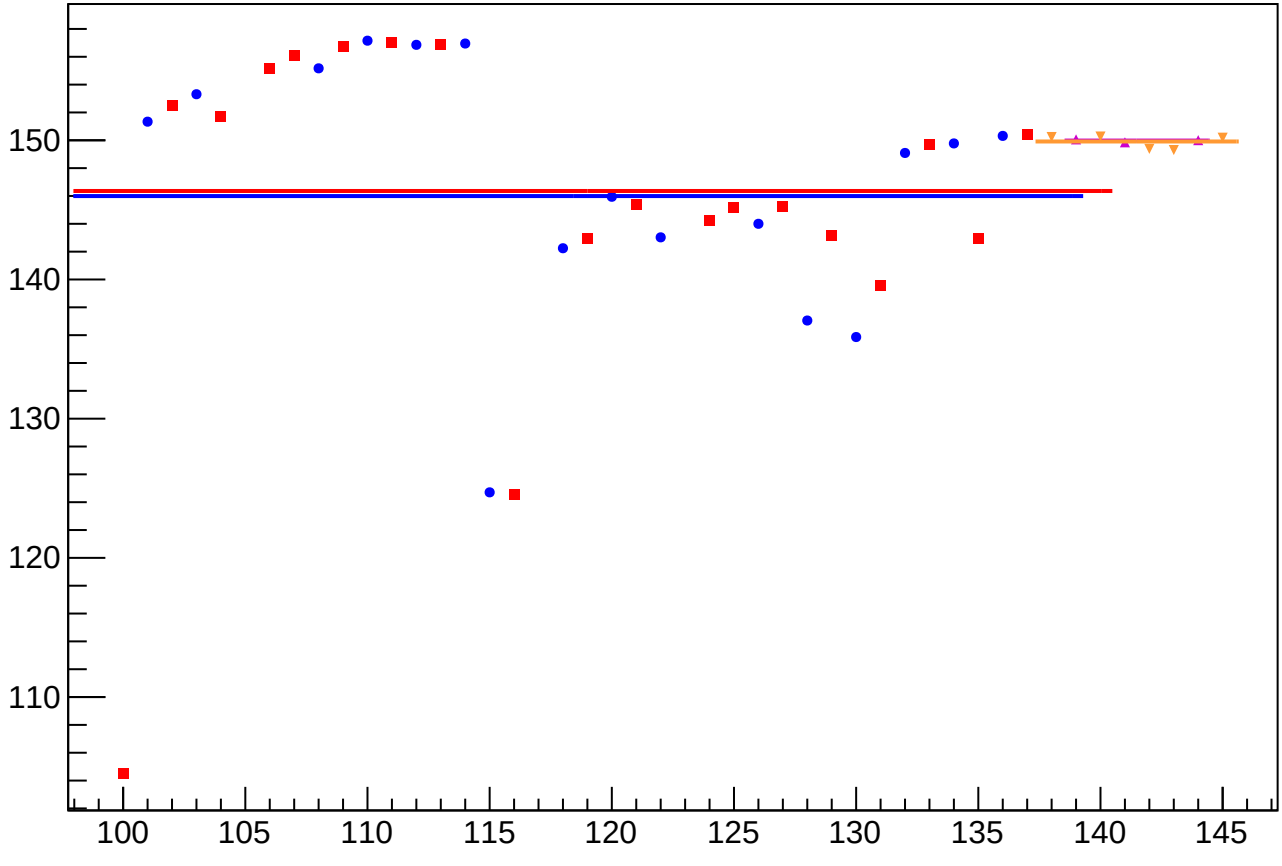
Right: 0.339+/-0.000 $\chi^2$/NDF: 2645924.6/34

In: 0.335+/-0.000 $\chi^2$/NDF:1415515.6/18

Out: 0.337+/-0.000 $\chi^2$/NDF:1309775.6/23

All: 0.336+/-0.000 $\chi^2$/NDF: 2725576.9/42

# yield_bcm_dg_ds_mean vs Slug, Sign Corrected




Right In: 145.993+/-0.000 $\chi^2$/NDF: 3621634656.4/15

Left Out: 149.914+/-0.000 $\chi^2$/NDF:5826059.5/4

Right Out: 146.358+/-0.000 $\chi^2$/NDF: 3963122316.1/18

Left In: 149.980+/-0.000 $\chi^2$/NDF:156107.1/2

Left: 149.942+/-0.000 $\chi^2$/NDF: 6038720.6/7

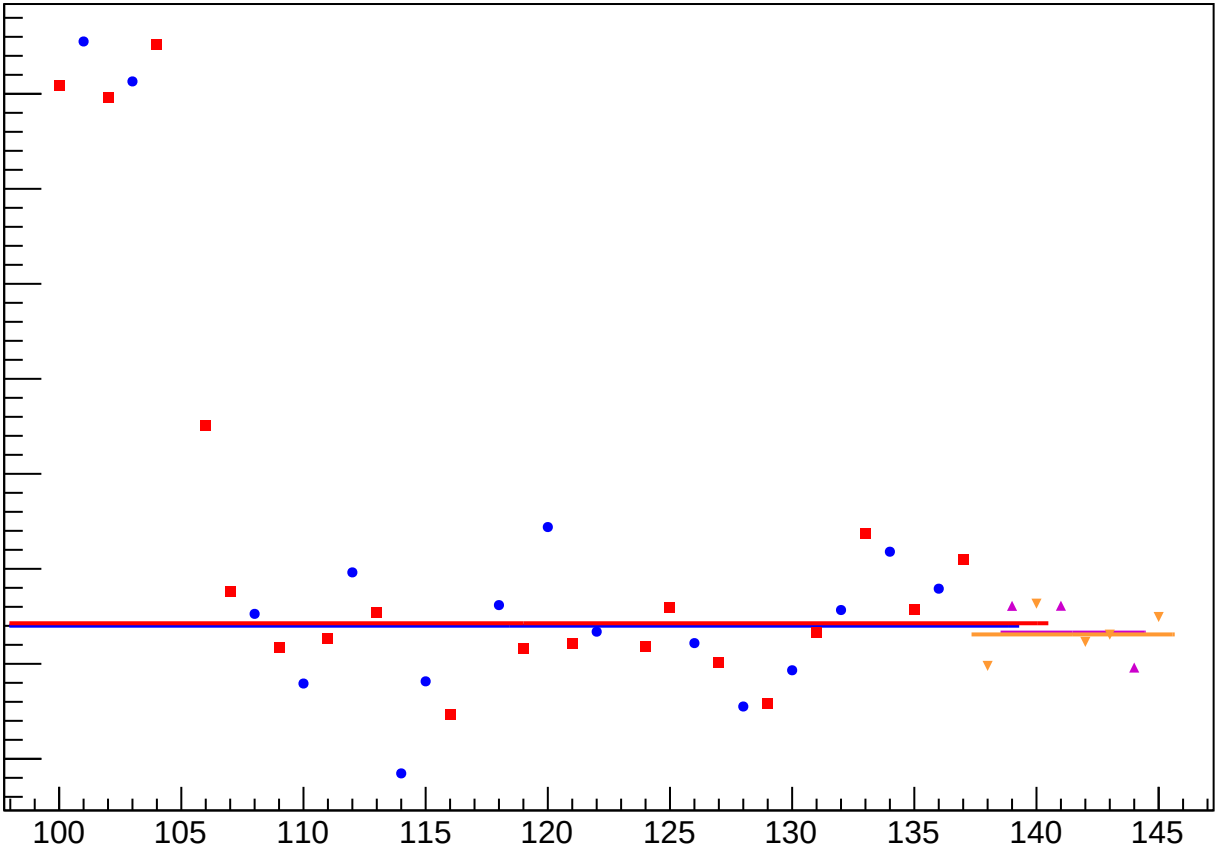
Right: 146.176+/-0.000 $\chi^2$/NDF: 7588198619.6/34

In: 147.206+/-0.000 $\chi^2$/NDF:3869755201.6/18

Out: 147.700+/-0.000 $\chi^2$/NDF:4215753597.4/23

All: 147.468+/-0.000 $\chi^2$/NDF: 8095014023.2

# yield_bcm_dg_ds_rms vs Slug, Sign Corrected




Right In: 0.340+/-0.000 $\chi^2$/NDF: 1393222.3/15

Left Out: 0.331+/-0.000 $\chi^2$/NDF:35480.4/4

Right Out: 0.343+/-0.000 $\chi^2$/NDF: 1270731.2/18

Left In: 0.333+/-0.000 $\chi^2$/NDF:46566.1/2

Left: 0.332+/-0.000 $\chi^2$/NDF: 82143.6/7

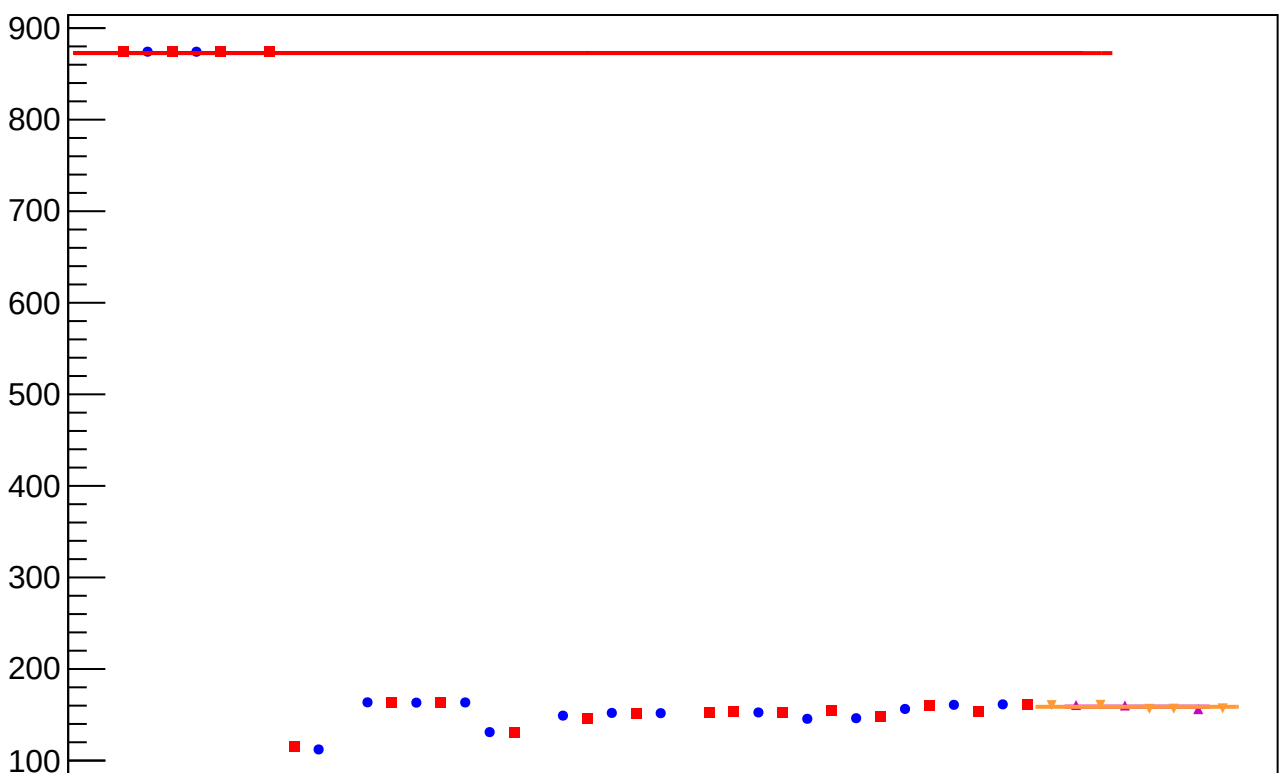
Right: 0.341+/-0.000 $\chi^2$/NDF: 2664290.2/34

In: 0.338+/-0.000 $\chi^2$/NDF:1441437.2/18

Out: 0.338+/-0.000 $\chi^2$/NDF:1311605.1/23

All: 0.338+/-0.000 $\chi^2$/NDF: 2753051.1/42

# yield_cav4bQ_mean vs Slug, Sign Corrected




Right In: 872.822+/-0.000 $\chi^2$/NDF: 7191496833472.3/15

Left Out: 158.723+/-0.000 $\chi^2$/NDF:24941460.3/4

Right Out: 872.676+/-0.000 $\chi^2$/NDF: 9167298490018.9/18

Left In: 158.890+/-0.000 $\chi^2$/NDF:20762829.5/2

Left: 158.794+/-0.000 $\chi^2$/NDF: 45782872.4/7

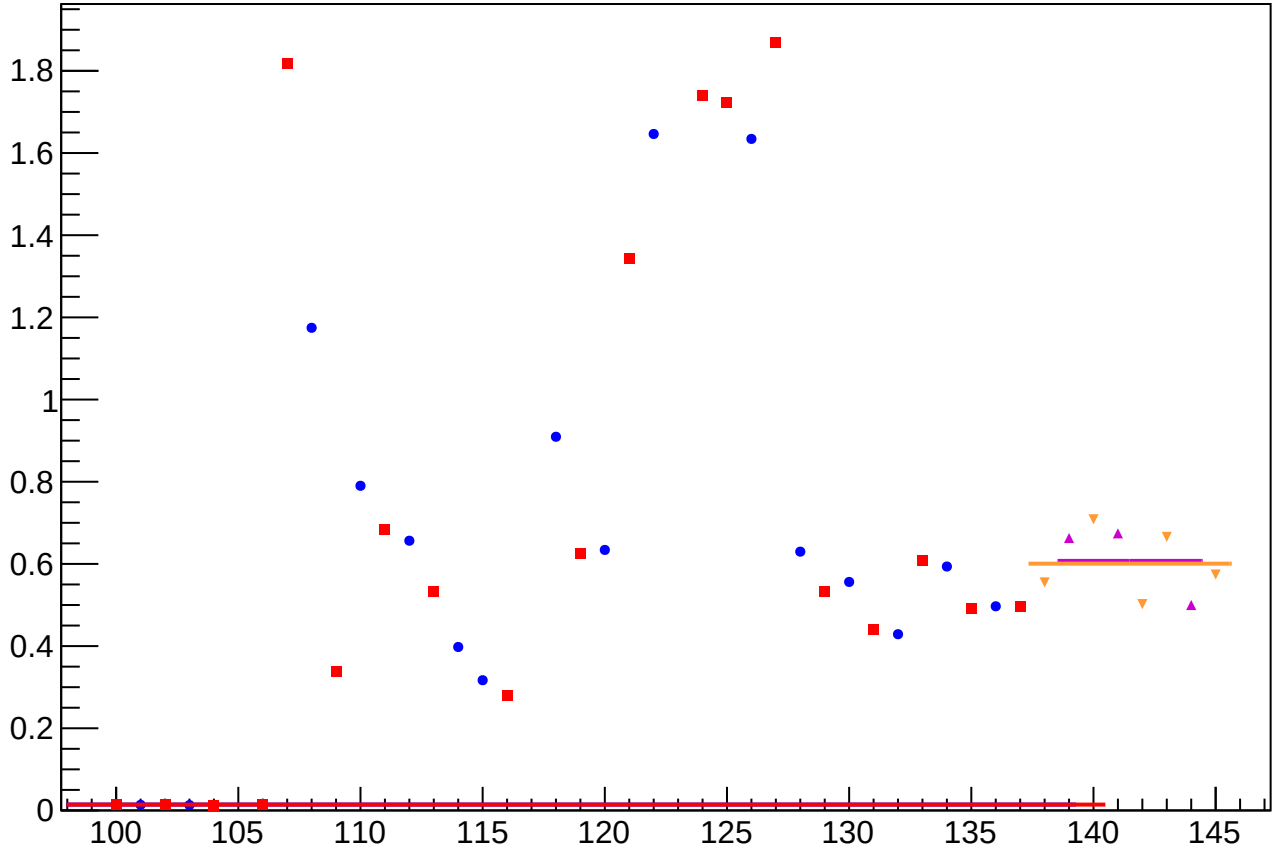
Right: 872.744+/-0.000 $\chi^2$/NDF: 16358876765227.4

In: 872.329+/-0.000 $\chi^2$/NDF:9700593770641.6/18

Out: 872.098+/-0.000 $\chi^2$/NDF:12552302271322.2

All: 872.205+/-0.000 $\chi^2$/NDF: 22253098689

# yield_cav4bQ_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 9622176.3/15

Left Out: 0.601+/-0.000 $\chi^2$/NDF:66681.1/4

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 9410025.7/18

Left In: 0.607+/-0.000 $\chi^2$/NDF:64966.5/2

Left: 0.603+/-0.000 $\chi^2$/NDF: 131904.4/7

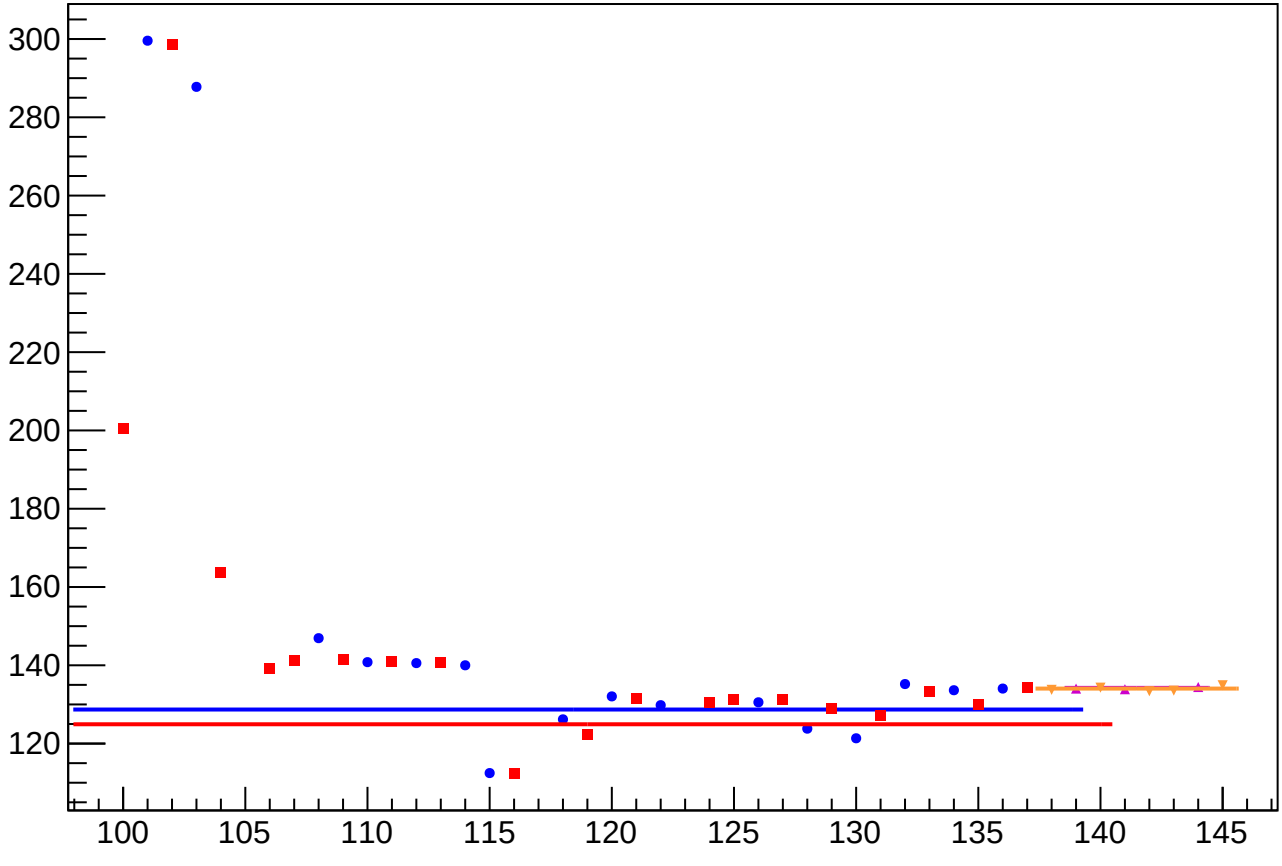
Right: 0.014+/-0.000 $\chi^2$/NDF: 19032353.5/34

In: 0.015+/-0.000 $\chi^2$/NDF:13148925.8/18

Out: 0.015+/-0.000 $\chi^2$/NDF:14043385.9/23

All: 0.015+/-0.000 $\chi^2$/NDF: 27192356.1/42

# yield_cav4cQ_mean vs Slug, Sign Corrected




Right In: 128.701+/-0.000 $\chi^2$/NDF: 1656162604.0/15

Left Out: 134.052+/-0.000 $\chi^2$/NDF:5815923.6/4

Right Out: 124.935+/-0.000 $\chi^2$/NDF: 1397923053.7/18

Left In: 134.231+/-0.000 $\chi^2$/NDF:562793.0/2

Left: 134.119+/-0.000 $\chi^2$/NDF: 6559828.9/7

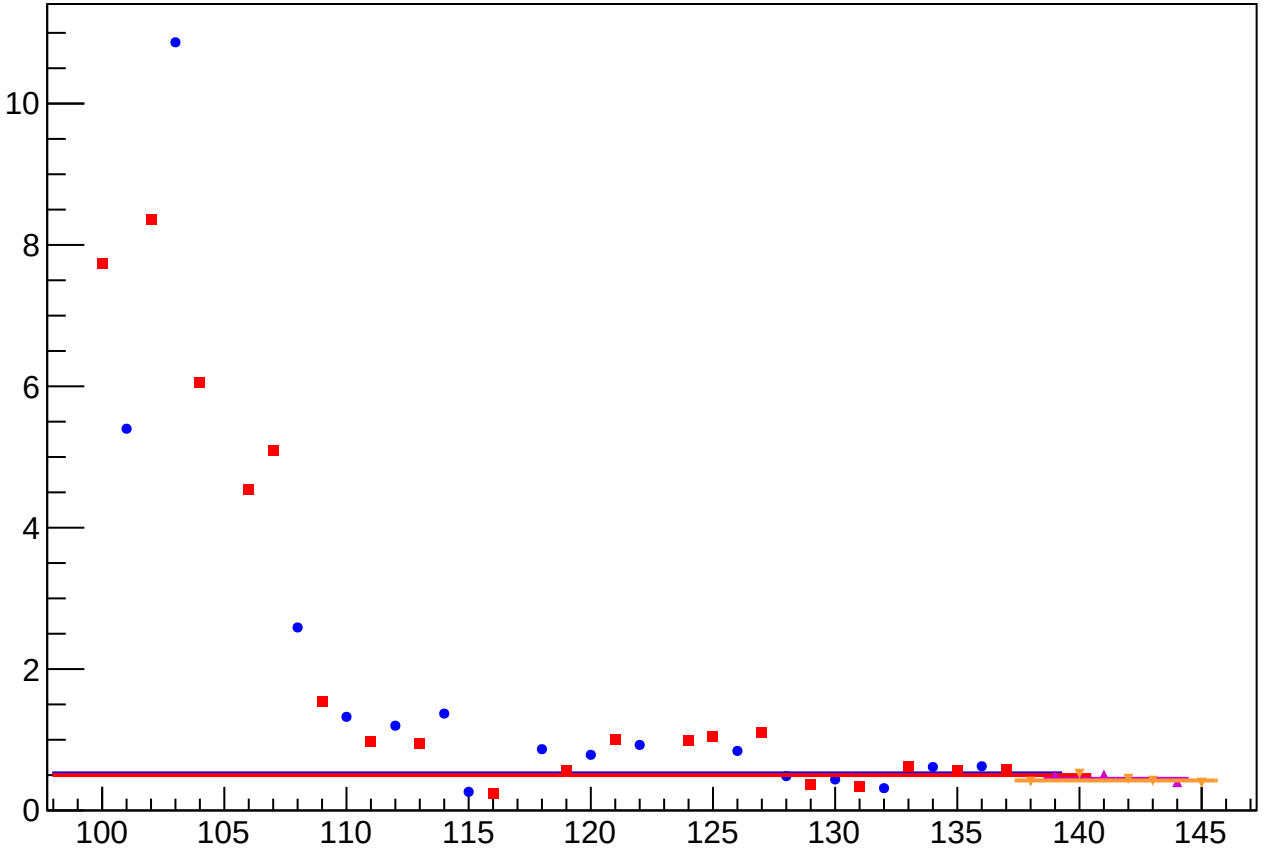
Right: 126.772+/-0.000 $\chi^2$/NDF: 3151132983.0/34

In: 130.931+/-0.000 $\chi^2$/NDF:1821629799.6/18

Out: 129.690+/-0.000 $\chi^2$/NDF:2011874566.5/23

All: 130.227+/-0.000 $\chi^2$/NDF: 3853092624.3

# yield_cav4cQ_rms vs Slug, Sign Corrected




Right In: 0.524+/-0.000 $\chi^2$/NDF: 4138409.3/15

Left Out: 0.424+/-0.000 $\chi^2$/NDF:45540.0/4

Right Out: 0.501+/-0.000 $\chi^2$/NDF: 4884137.3/18

Left In: 0.447+/-0.000 $\chi^2$/NDF:45573.2/2

Left: 0.433+/-0.000 $\chi^2$/NDF: 97133.9/7

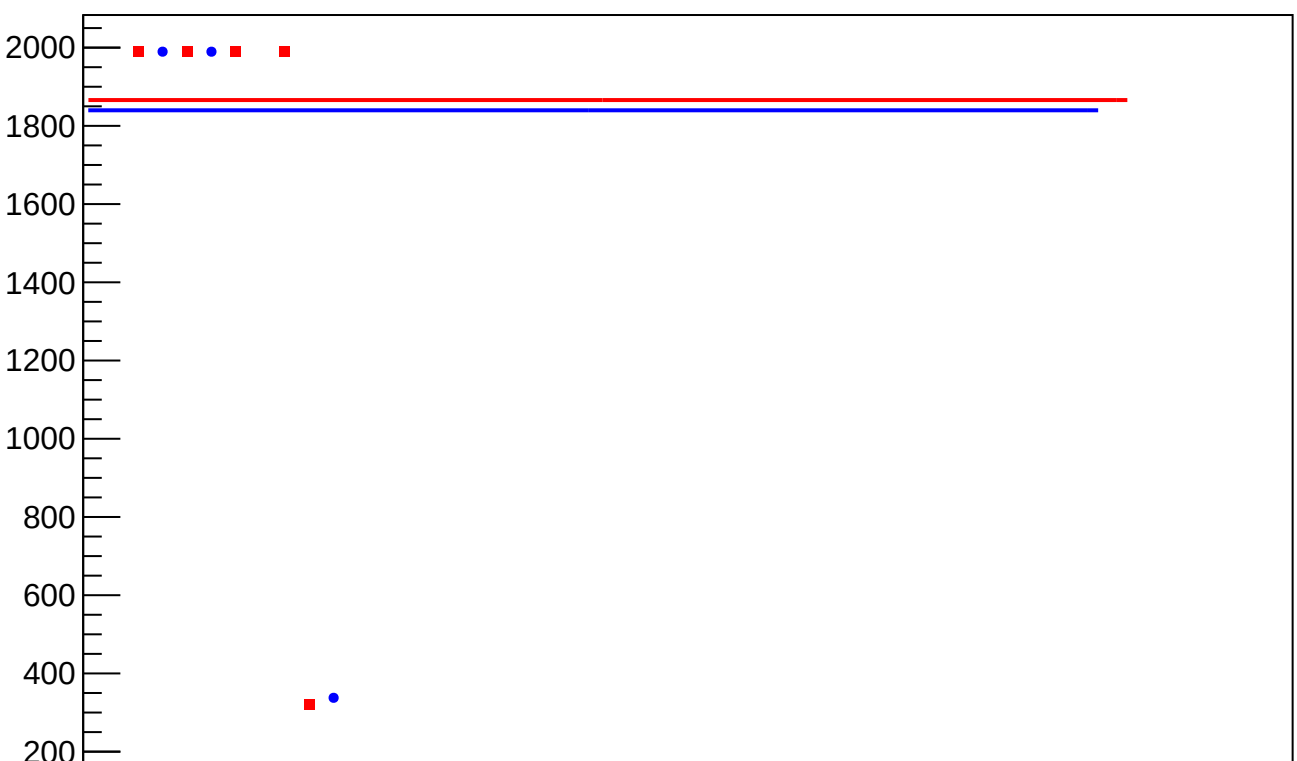
Right: 0.512+/-0.000 $\chi^2$/NDF: 9030118.3/34

In: 0.493+/-0.000 $\chi^2$/NDF:4247398.3/18

Out: 0.461+/-0.000 $\chi^2$/NDF:5014615.7/23

All: 0.475+/-0.000 $\chi^2$/NDF: 9288534.7/42

# yield_cav4dQ_mean vs Slug, Sign Corrected




Right In: 1839.782+/-0.000 $\chi^2$/NDF: 145916014549797.4/15

Left Out: 137.353+/-0.000 $\chi^2$/NDF:12666533.1/4

Right Out: 1865.968+/-0.000 $\chi^2$/NDF: 142769122276045.8/18

Left In: 137.409+/-0.000 $\chi^2$/NDF:1315819.1/2

Left: 137.376+/-0.000 $\chi^2$/NDF: 14025599.8/7

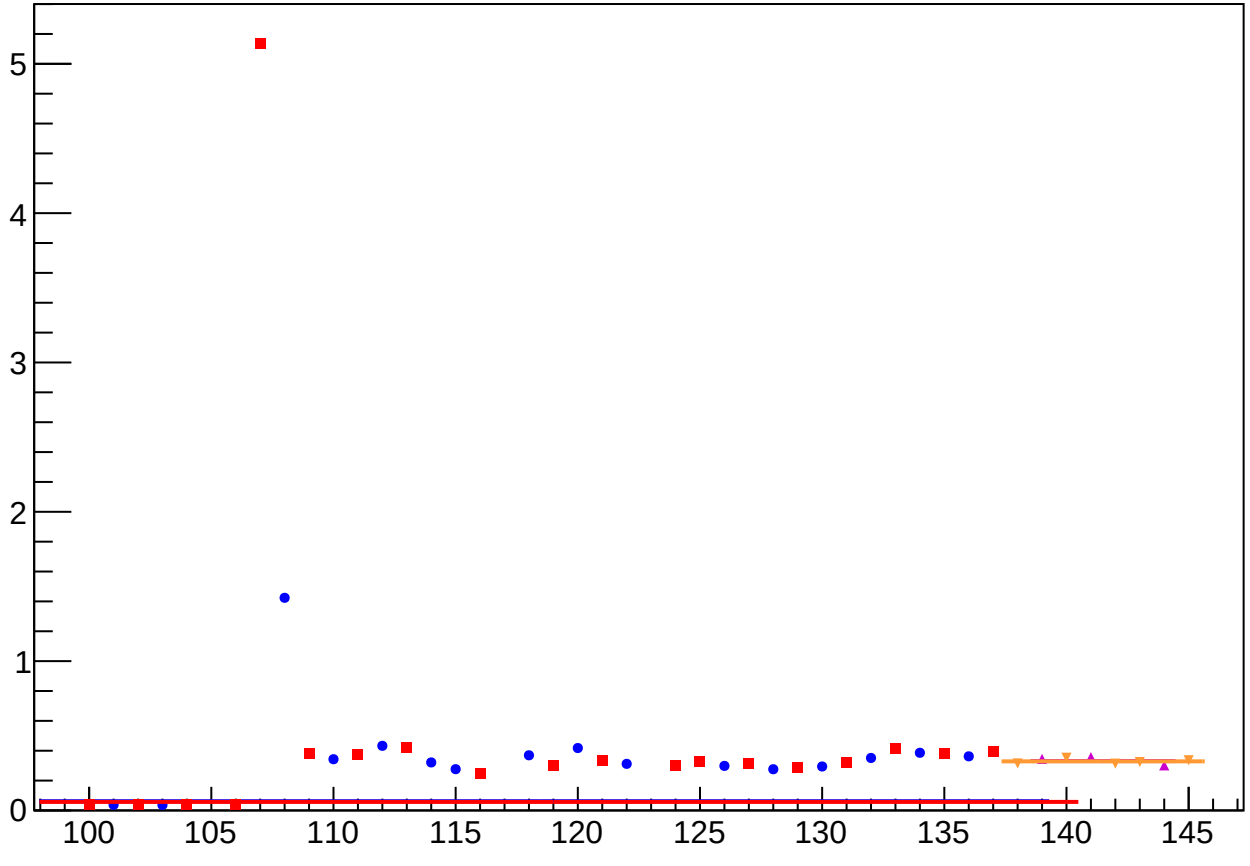
Right: 1853.888+/-0.000 $\chi^2$/NDF: 2888957986059

In: 1773.519+/-0.000 $\chi^2$/NDF:210251836995960.

Out: 1785.276+/-0.000 $\chi^2$/NDF:23565709432781

All: 1779.875+/-0.000 $\chi^2$/NDF: 4459532826

# yield_cav4dQ_rms vs Slug, Sign Corrected




Right In: 0.062+/-0.000 $\chi^2$/NDF: 8173578.9/15

Left Out: 0.329+/-0.000 $\chi^2$/NDF:13920.0/4

Right Out: 0.057+/-0.000 $\chi^2$/NDF: 7741927.9/18

Left In: 0.331+/-0.000 $\chi^2$/NDF:28436.2/2

Left: 0.330+/-0.000 $\chi^2$/NDF: 42462.4/7

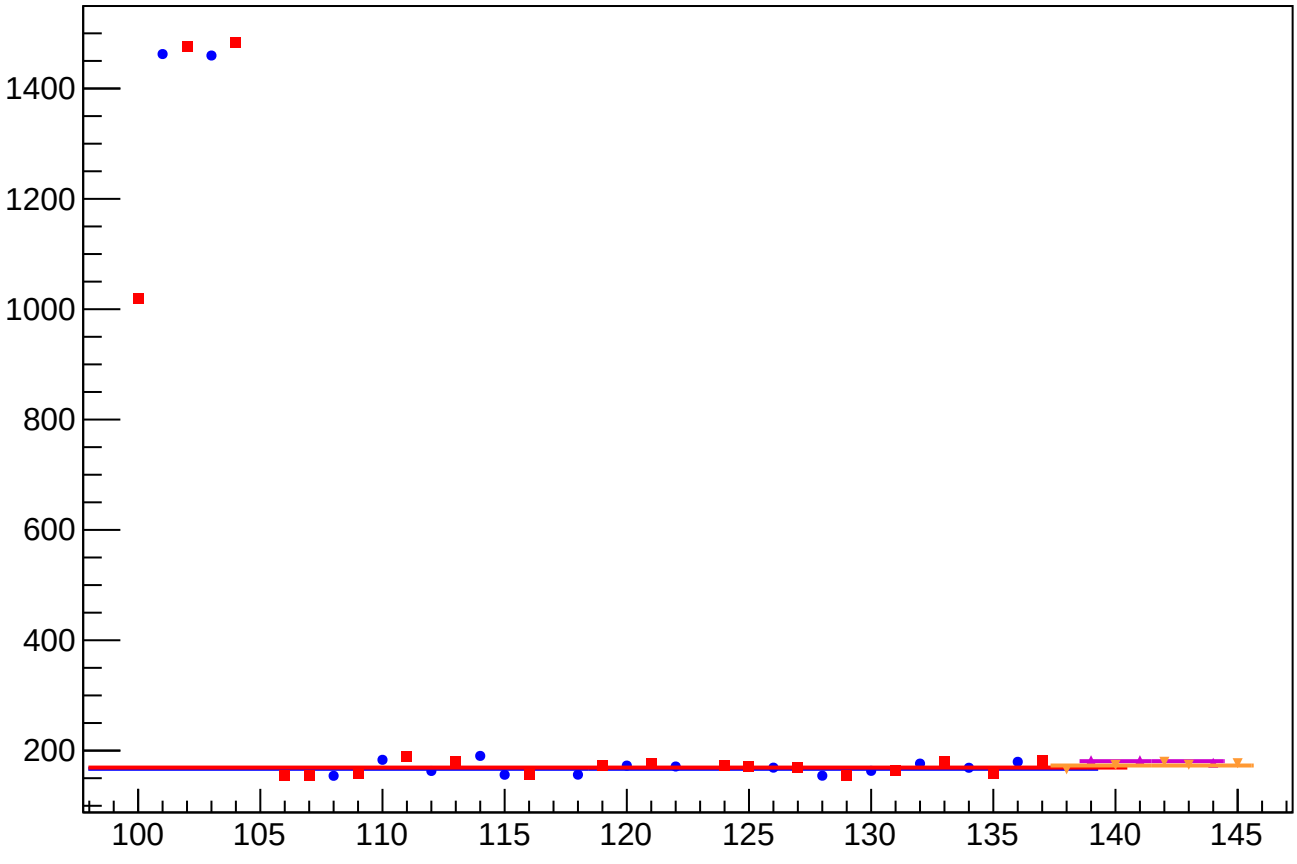
Right: 0.059+/-0.000 $\chi^2$/NDF: 15927866.9/34

In: 0.072+/-0.000 $\chi^2$/NDF:11417290.6/18

Out: 0.070+/-0.000 $\chi^2$/NDF:12342312.7/23

All: 0.071+/-0.000 $\chi^2$/NDF: 23762942.2/42

# yield_bcm0l02_mean vs Slug, Sign Corrected




Right In: 167.017+/-0.000 $\chi^2$/NDF: 14614977518.5/15

Left Out: 172.997+/-0.001 $\chi^2$/NDF:67854853.1/4

Right Out: 169.257+/-0.000 $\chi^2$/NDF: 16317542946.8/18

Left In: 180.846+/-0.001 $\chi^2$/NDF:10810601.7/2

Left: 176.188+/-0.000 $\chi^2$/NDF: 156701824.1/7

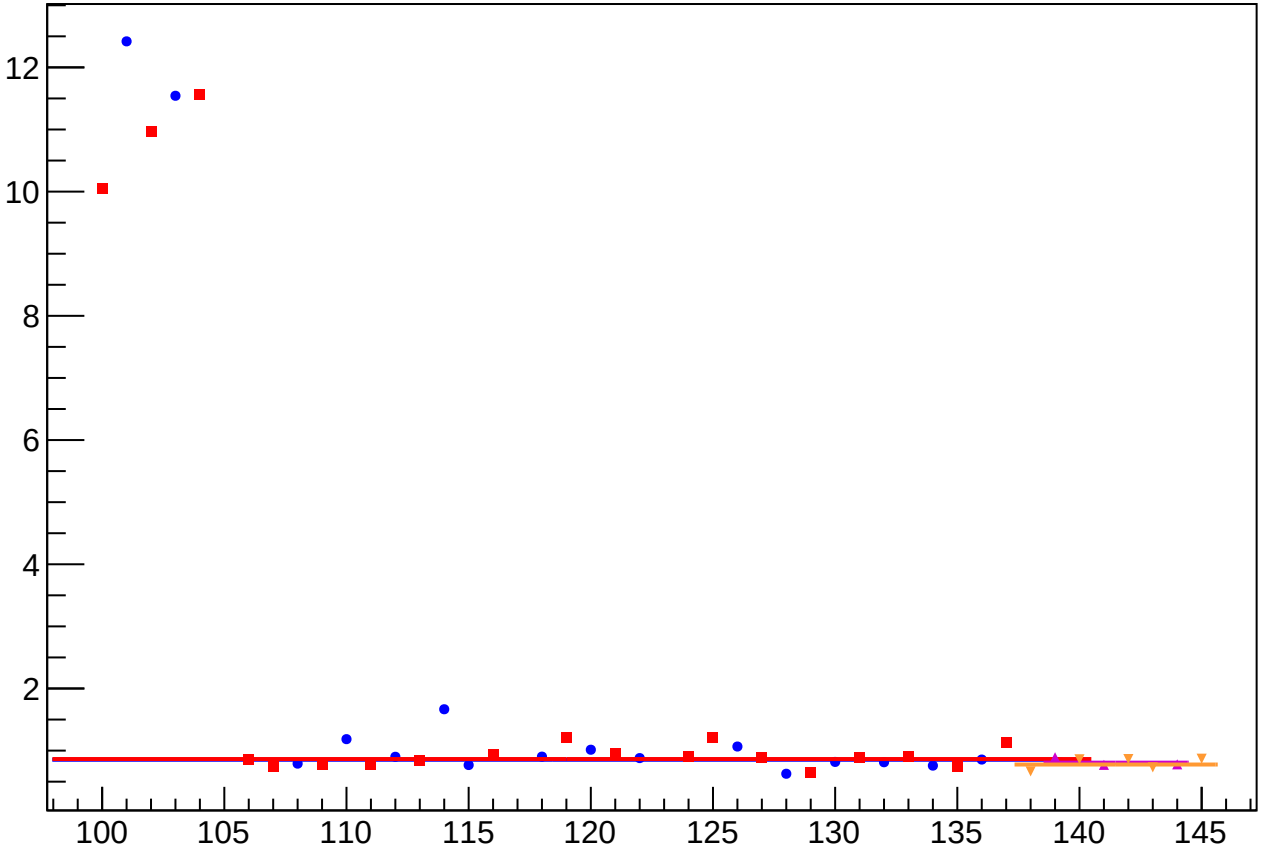
Right: 168.153+/-0.000 $\chi^2$/NDF: 30946000130.2/34

In: 170.989+/-0.000 $\chi^2$/NDF:14916718918.8/18

Out: 170.618+/-0.000 $\chi^2$/NDF:16413130362.9/23

All: 170.790+/-0.000 $\chi^2$/NDF: 31330397833.

# yield_bcm0l02_rms vs Slug, Sign Corrected




Right In: 0.853+/-0.000 $\chi^2$/NDF: 2302297.2/15

Left Out: 0.776+/-0.000 $\chi^2$/NDF:47928.4/4

Right Out: 0.864+/-0.000 $\chi^2$/NDF: 2209232.6/18

Left In: 0.806+/-0.000 $\chi^2$/NDF:11645.8/2

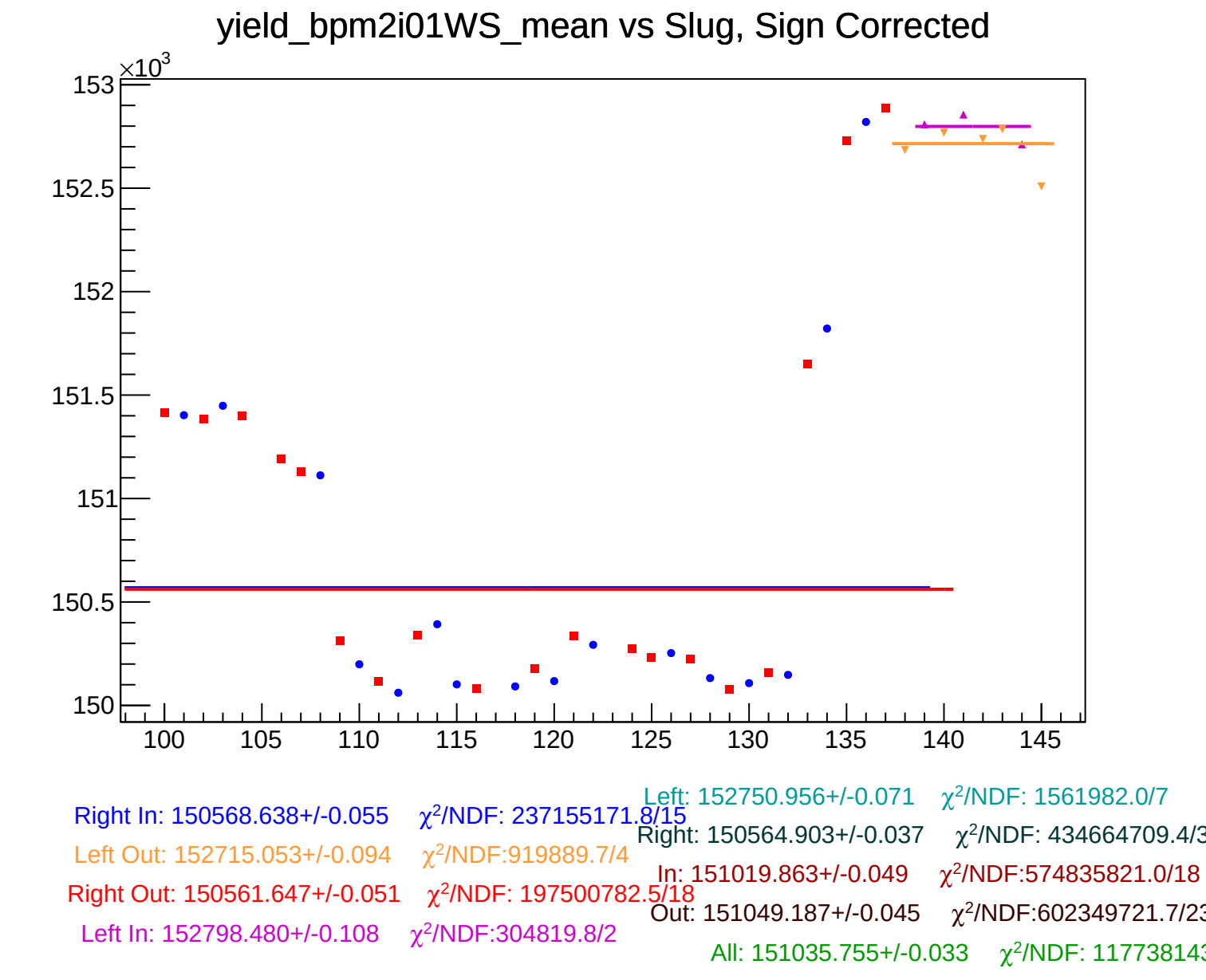
Left: 0.788+/-0.000 $\chi^2$/NDF: 61878.3/7

Right: 0.859+/-0.000 $\chi^2$/NDF: 4512219.1/34

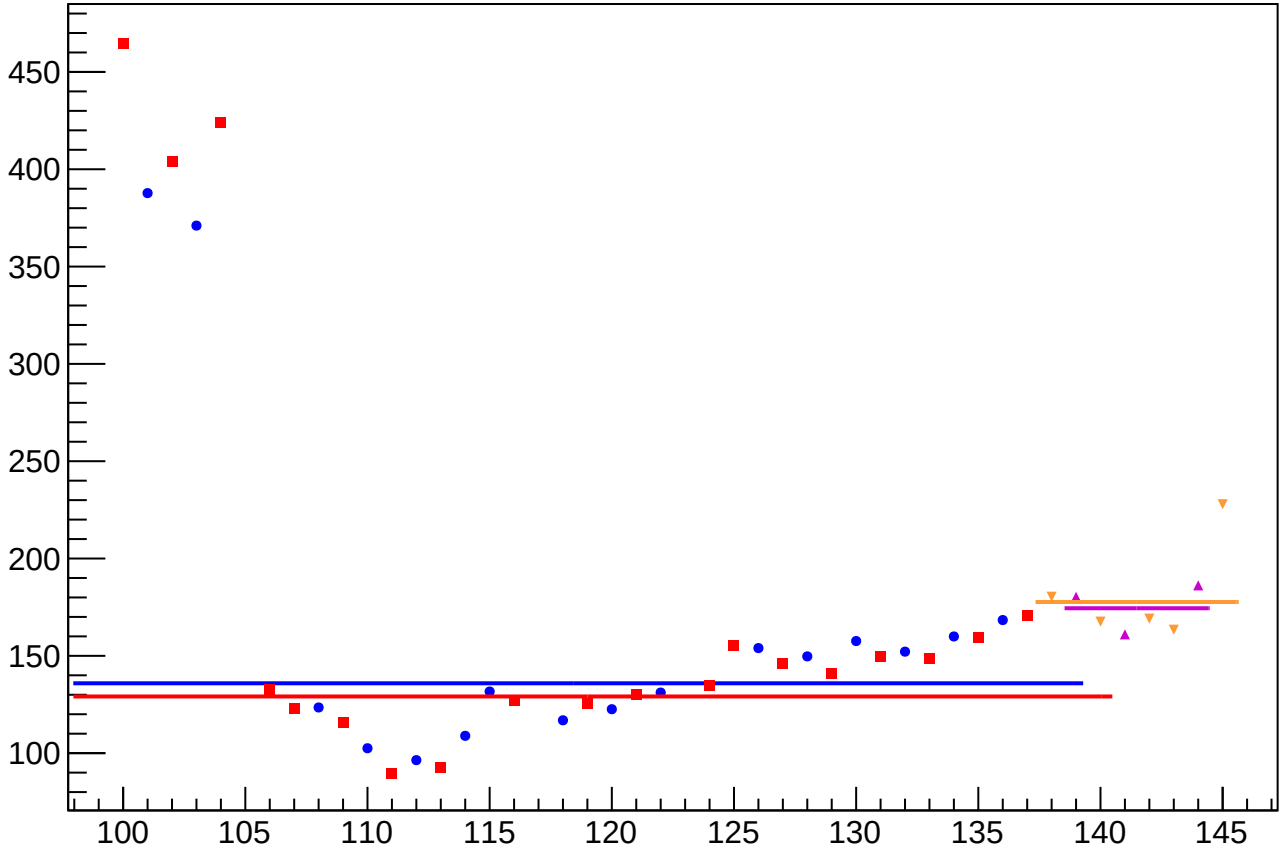
In: 0.840+/-0.000 $\chi^2$/NDF:2320614.5/18

Out: 0.832+/-0.000 $\chi^2$/NDF:2288085.2/23

All: 0.836+/-0.000 $\chi^2$/NDF: 4609129.7/42


yield_bpm2i01WS_mean vs Slug, Sign Corrected
×10^3
153
152.5
152
151.5
151
150.5
150
100
105
110
115
120
125
130
135
140
145
Right In: 150568.638+/-0.055 χ²/NDF: 237155171.8/15
Left Out: 152715.053+/-0.094 χ²/NDF:919889.7/4
Right Out: 150561.647+/-0.051 χ²/NDF: 197500782.5/18
Left In: 152798.480+/-0.108 χ²/NDF:304819.8/2
Left: 152750.956+/-0.071 χ²/NDF: 1561982.0/7
Right: 150564.903+/-0.037 χ²/NDF: 434664709.4/3
In: 151019.863+/-0.049 χ²/NDF:574835821.0/18
Out: 151049.187+/-0.045 χ²/NDF:602349721.7/23
All: 151035.755+/-0.033 χ²/NDF: 11773814

# yield_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 135.896+/-0.039 $\chi^2$/NDF: 1416332.3/15

Left Out: 177.674+/-0.067 $\chi^2$/NDF:98820.2/4

Right Out: 129.130+/-0.036 $\chi^2$/NDF: 1614311.0/18

Left In: 174.455+/-0.077 $\chi^2$/NDF:20997.1/2

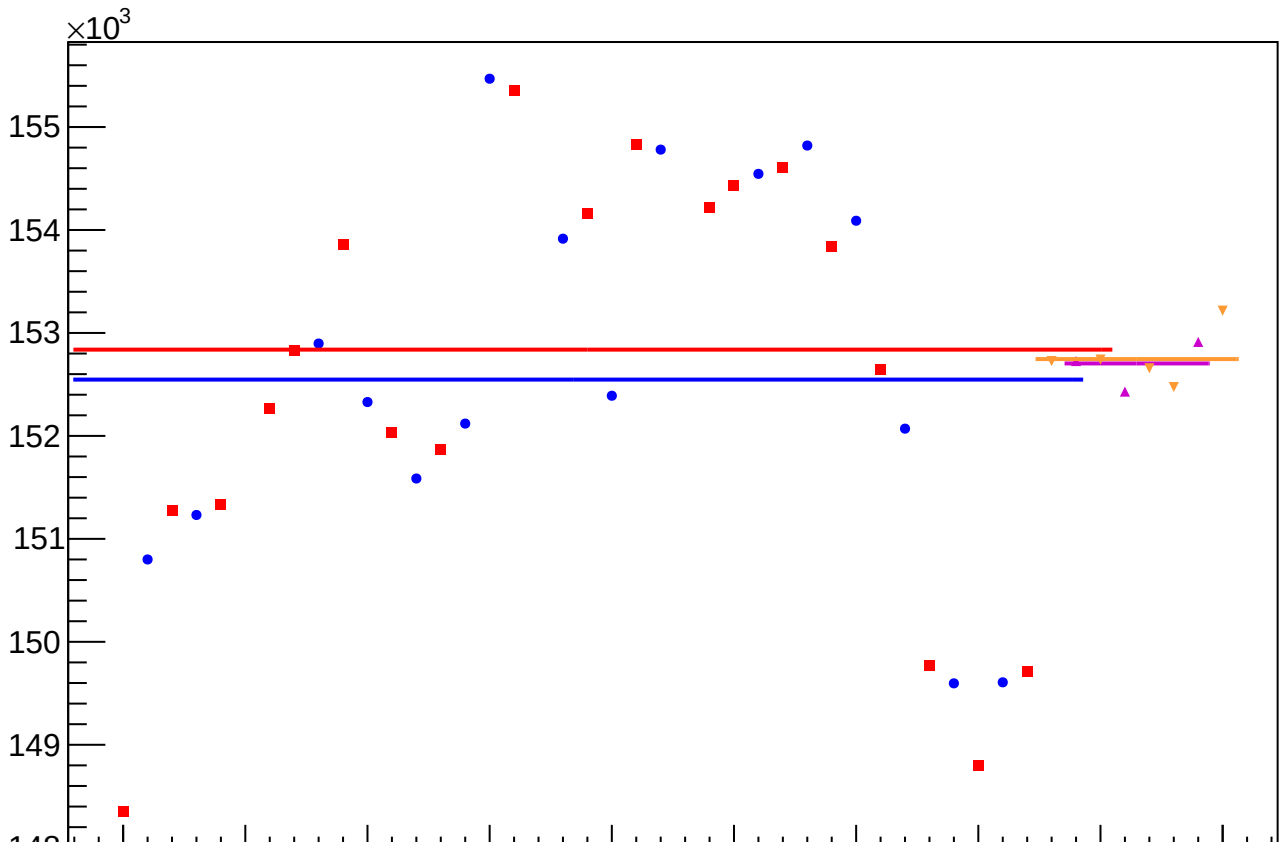
Left: 176.289+/-0.050 $\chi^2$/NDF: 120822.0/7

Right: 132.281+/-0.026 $\chi^2$/NDF: 3047045.4/34

In: 143.699+/-0.034 $\chi^2$/NDF:1639089.1/18

Out: 140.121+/-0.032 $\chi^2$/NDF:2123667.1/23

All: 141.760+/-0.023 $\chi^2$/NDF: 3768588.3/42




Right In: 152546.899+/-0.073 $\chi^2$/NDF: 654540559.6/15

Left Out: 152746.108+/-0.097 $\chi^2$/NDF:6297486.0/4

Right Out: 152837.888+/-0.067 $\chi^2$/NDF: 736907066.8/18

Left In: 152703.879+/-0.115 $\chi^2$/NDF:3014879.9/2

Left: 152728.631+/-0.074 $\chi^2$/NDF: 9390738.2/7

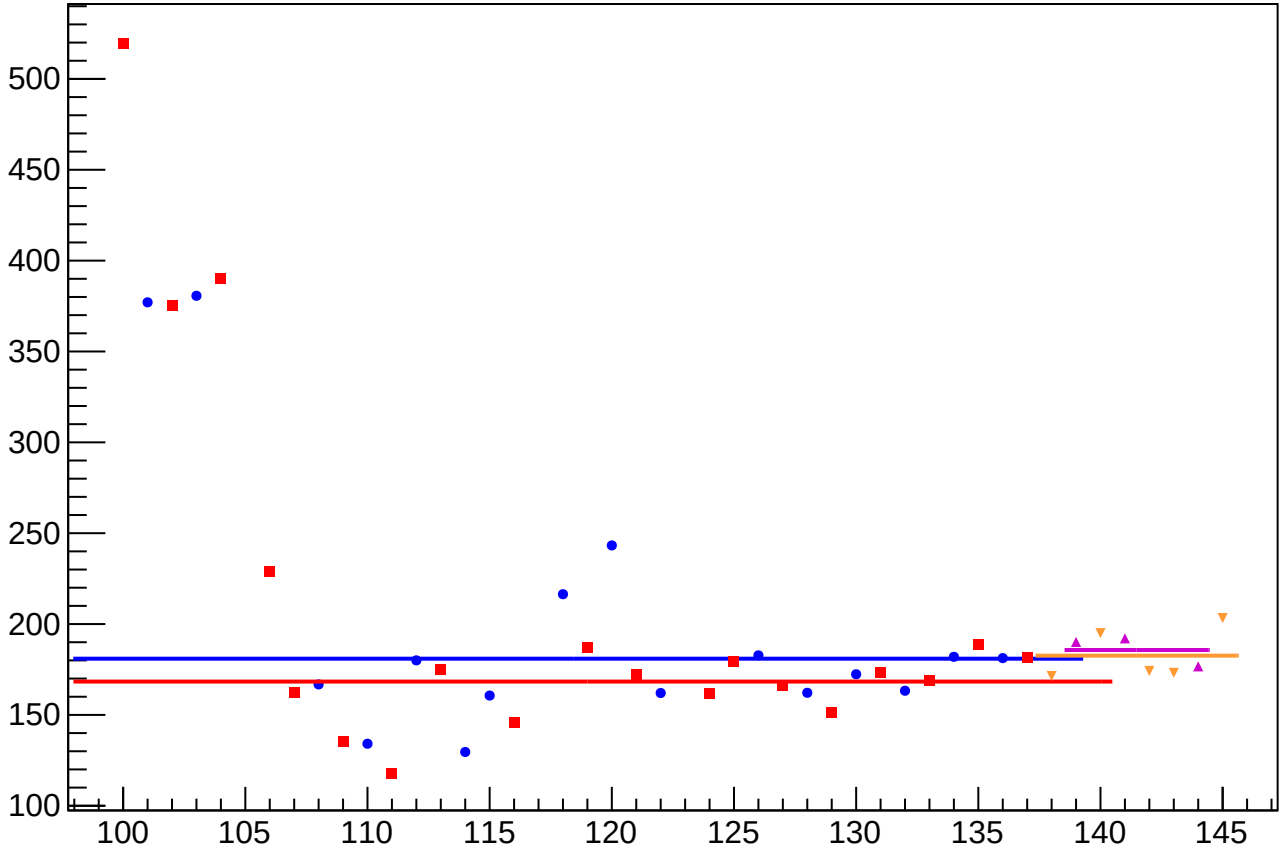
Right: 152704.814+/-0.049 $\chi^2$/NDF: 1400162101.0/

In: 152591.377+/-0.061 $\chi^2$/NDF:658879574.8/18

Out: 152808.465+/-0.055 $\chi^2$/NDF:743812276.7/23

All: 152712.055+/-0.041 $\chi^2$/NDF: 140962436

# yield_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 180.938+/-0.051 $\chi^2$/NDF: 907758.2/15

Left Out: 182.622+/-0.069 $\chi^2$/NDF:35993.5/4

Right Out: 168.349+/-0.047 $\chi^2$/NDF: 1089090.2/18

Left In: 185.715+/-0.082 $\chi^2$/NDF:7433.7/2

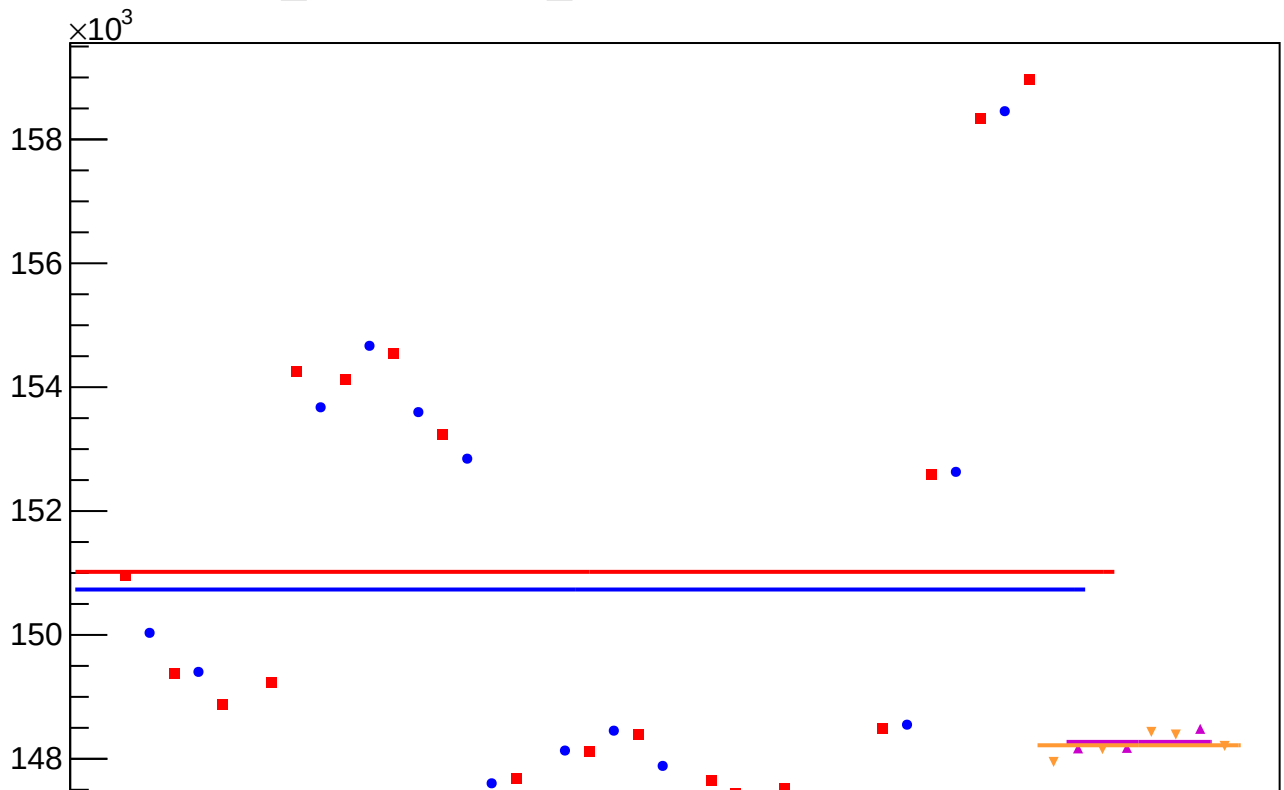
Left: 183.902+/-0.053 $\chi^2$/NDF: 44267.9/7

Right: 174.106+/-0.035 $\chi^2$/NDF: 2029471.3/34

In: 182.292+/-0.043 $\chi^2$/NDF:917643.4/18

Out: 172.925+/-0.039 $\chi^2$/NDF:1154478.0/23

All: 177.085+/-0.029 $\chi^2$/NDF: 2097934.8/42




Right In: 150733.301+/-0.063 $\chi^2$/NDF: 3283848751.0/15

Left Out: 148218.560+/-0.097 $\chi^2$/NDF:3280721.1/4

Right Out: 151018.500+/-0.060 $\chi^2$/NDF: 3286131878.7/18

Left In: 148273.111+/-0.113 $\chi^2$/NDF:1658737.0/2

Left: 148241.773+/-0.074 $\chi^2$/NDF: 5073927.5/7

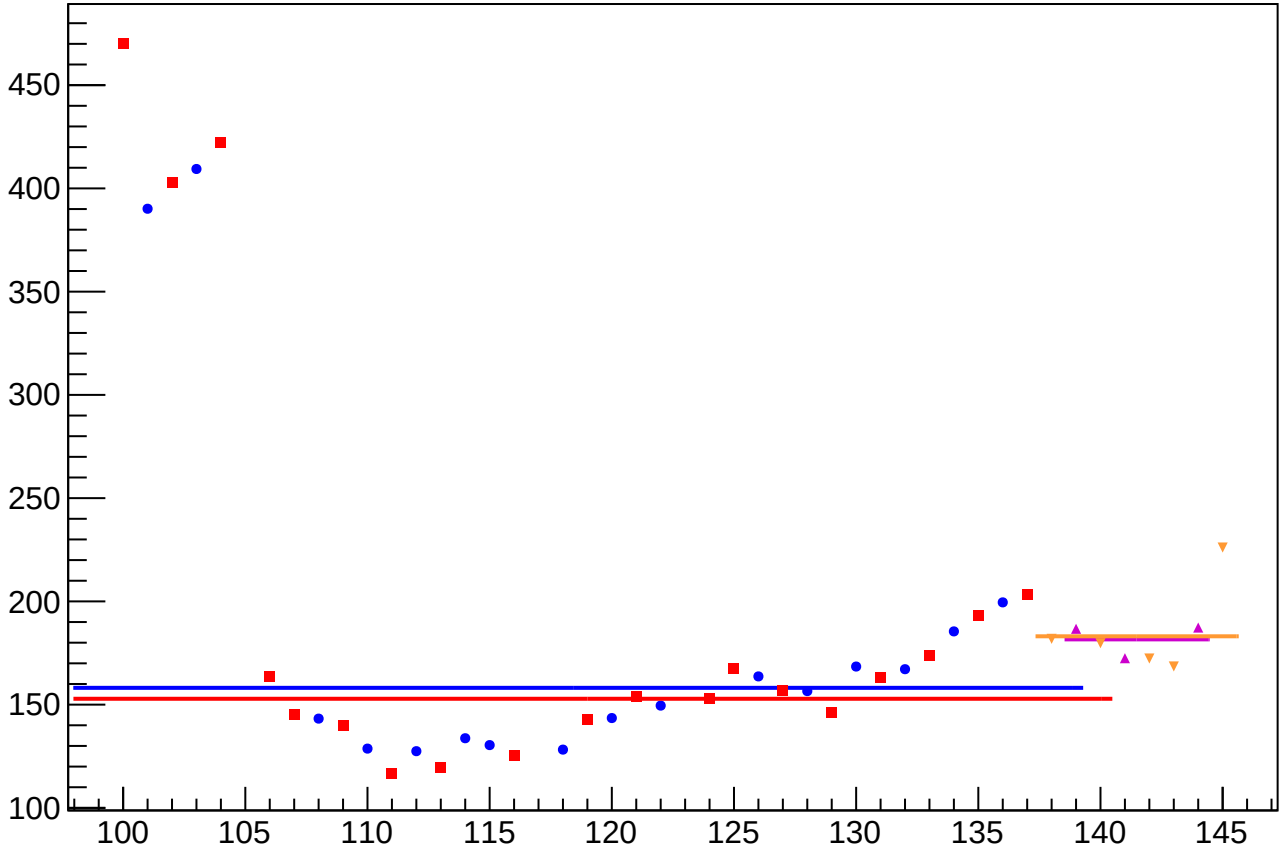
Right: 150882.491+/-0.043 $\chi^2$/NDF: 6580735457.3/

In: 150149.405+/-0.055 $\chi^2$/NDF:3648603832.9/18

Out: 150243.109+/-0.051 $\chi^2$/NDF:3891363381.8/2

All: 150199.667+/-0.037 $\chi^2$/NDF: 75415281

# yield_bpm0i01WS_rms vs Slug, Sign Corrected




Right In: 158.138+/-0.044 $\chi^2$/NDF: 1195699.5/15

Left Out: 183.093+/-0.069 $\chi^2$/NDF:73973.4/4

Right Out: 152.841+/-0.042 $\chi^2$/NDF: 1264236.1/18

Left In: 181.604+/-0.080 $\chi^2$/NDF:7800.3/2

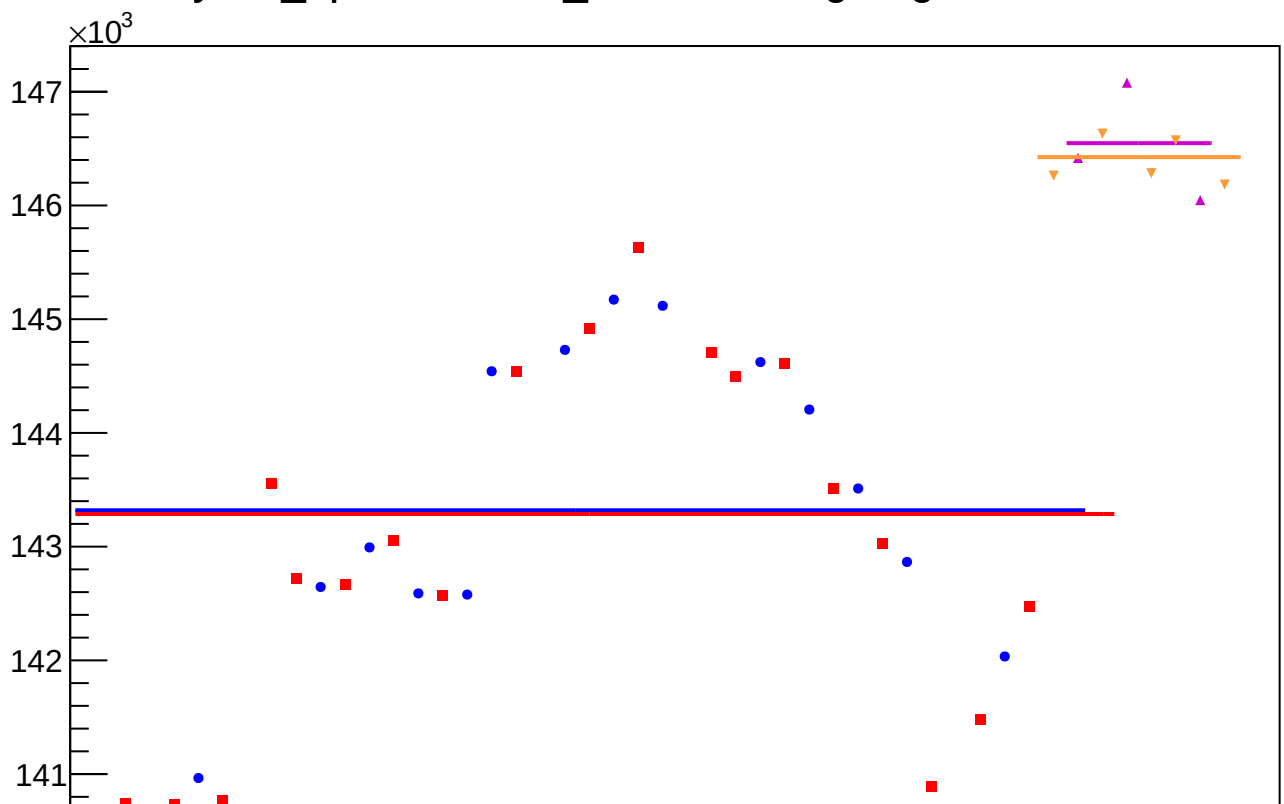
Left: 182.459+/-0.052 $\chi^2$/NDF: 81974.0/7

Right: 155.367+/-0.031 $\chi^2$/NDF: 2467354.6/34

In: 163.707+/-0.039 $\chi^2$/NDF:1269568.7/18

Out: 161.219+/-0.036 $\chi^2$/NDF:1478748.4/23

All: 162.372+/-0.026 $\chi^2$/NDF: 2750518.8/42




Right In: 143319.651+/-0.053 $\chi^2$/NDF: 559301530.7/15

Left Out: 146425.081+/-0.096 $\chi^2$/NDF:3534031.0/4

Right Out: 143286.960+/-0.050 $\chi^2$/NDF: 620521577.8/18

Left In: 146547.973+/-0.111 $\chi^2$/NDF:15516089.5/2

Left: 146477.643+/-0.073 $\chi^2$/NDF: 19749478.4/7

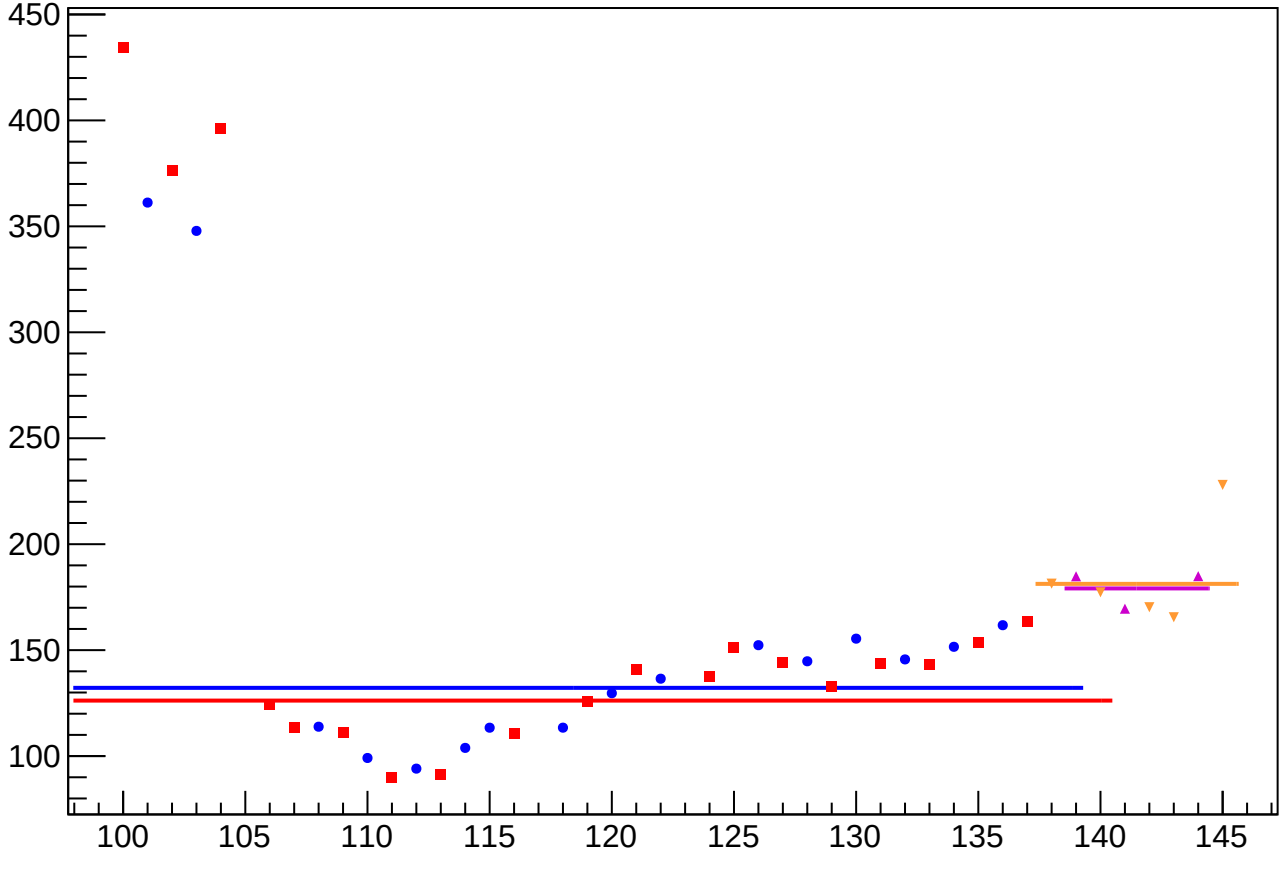
Right: 143302.220+/-0.036 $\chi^2$/NDF: 1180025024.1/

In: 143919.825+/-0.048 $\chi^2$/NDF:1261359949.9/18

Out: 143949.264+/-0.044 $\chi^2$/NDF:1465247468.0/2

All: 143935.751+/-0.032 $\chi^2$/NDF: 27268114

# yield_bpm0i01aWS_rms vs Slug, Sign Corrected




Right In: 132.204+/-0.038 $\chi^2$/NDF: 1379168.6/15

Left Out: 181.273+/-0.068 $\chi^2$/NDF:86127.3/4

Right Out: 126.191+/-0.035 $\chi^2$/NDF: 1545034.5/18

Left In: 179.121+/-0.079 $\chi^2$/NDF:8913.0/2

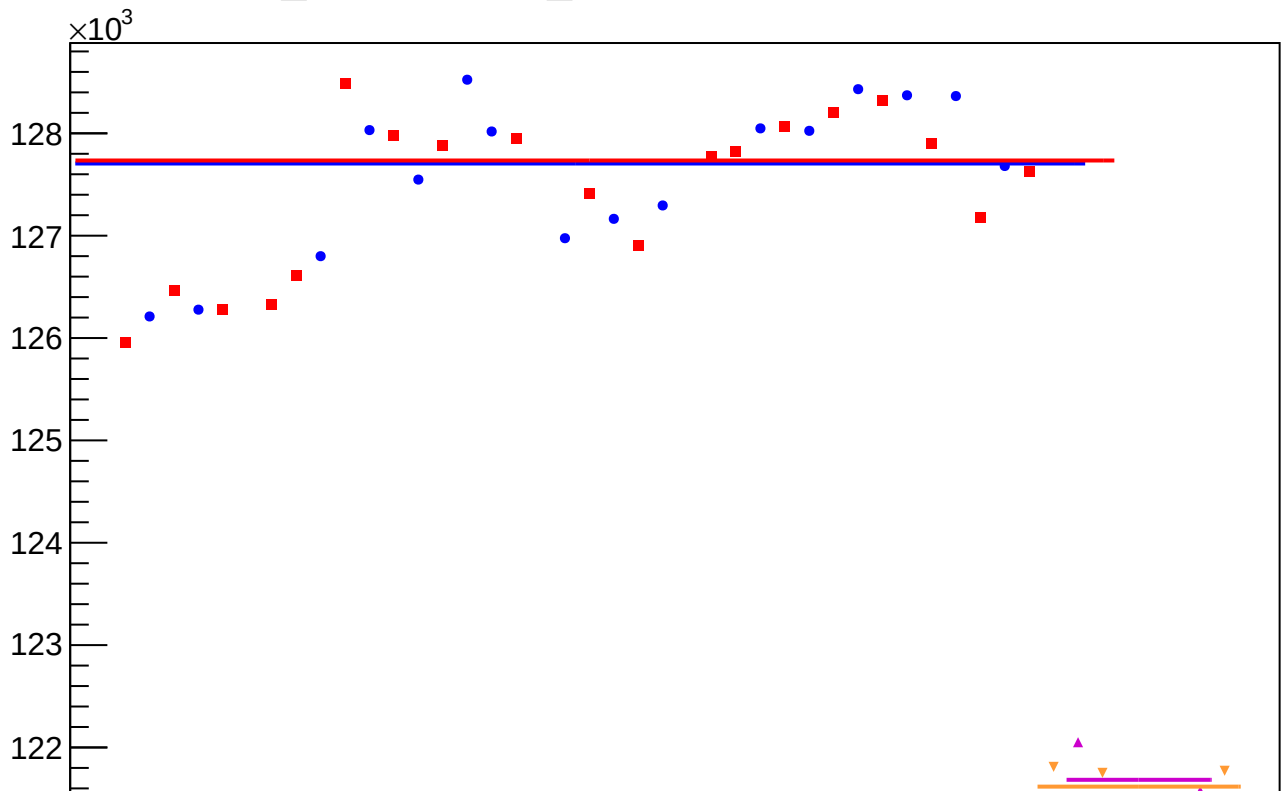
Left: 180.352+/-0.051 $\chi^2$/NDF: 95469.0/7

Right: 128.998+/-0.026 $\chi^2$/NDF: 2937865.2/34

In: 140.926+/-0.034 $\chi^2$/NDF:1678086.0/18

Out: 137.816+/-0.031 $\chi^2$/NDF:2149480.0/23

All: 139.244+/-0.023 $\chi^2$/NDF: 3832121.9/42




Right In: 127705.222+/-0.058 $\chi^2$/NDF: 104467207.7/15

Left Out: 121617.368+/-0.083 $\chi^2$/NDF:5911973.7/4

Right Out: 127734.542+/-0.055 $\chi^2$/NDF: 109469333.8/18

Left In: 121684.003+/-0.096 $\chi^2$/NDF:6490412.5/2

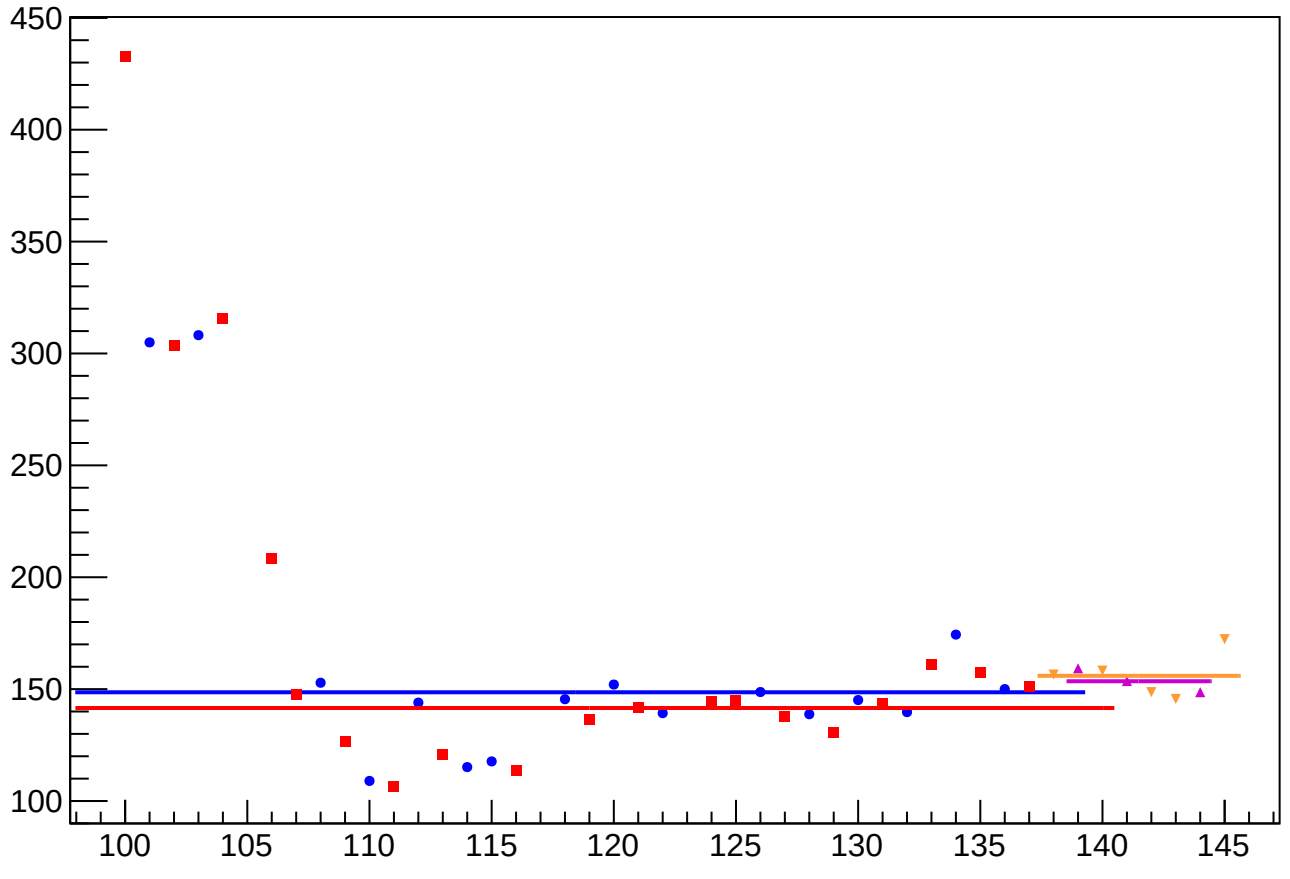
Left: 121646.110+/-0.063 $\chi^2$/NDF: 12677159.6/7

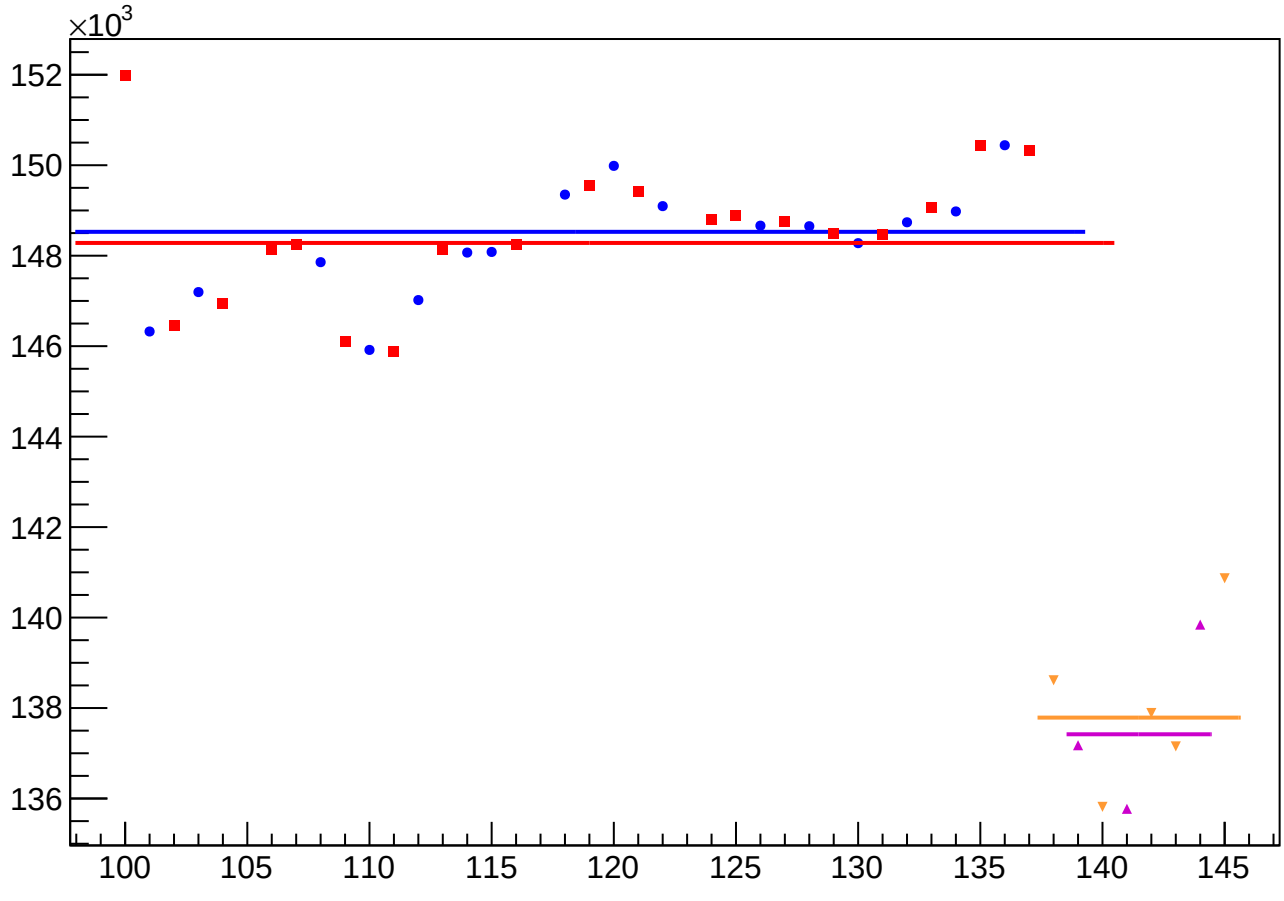
Right: 127720.787+/-0.040 $\chi^2$/NDF: 214070280.4/3

In: 126074.745+/-0.050 $\chi^2$/NDF:2987908978.7/18

Out: 125887.297+/-0.046 $\chi^2$/NDF:3862709787.4/2

All: 125973.195+/-0.034 $\chi^2$/NDF: 68582683


yield_bpm0l01WS_rms vs Slug, Sign Corrected
450
400
350
300
250
200
150
100
100
105
110
115
120
125
130
135
140
145
Right In: 148.593+/-0.041 χ²/NDF: 827701.4/15
Left Out: 155.953+/-0.059 χ²/NDF:24261.1/4
Right Out: 141.563+/-0.039 χ²/NDF: 1001225.3/18
Left In: 153.524+/-0.068 χ²/NDF:4069.9/2
Left: 154.905+/-0.045 χ²/NDF: 29061.2/7
Right: 144.861+/-0.028 χ²/NDF: 1844303.5/34
In: 149.928+/-0.035 χ²/NDF:835629.5/18
Out: 145.908+/-0.032 χ²/NDF:1066957.1/23
All: 147.750+/-0.024 χ²/NDF: 1909622.5/42




Right In: 148527.678+/-0.082 $\chi^2$/NDF: 209208133.0/15

Left Out: 137788.505+/-0.125 $\chi^2$/NDF:175923734.2/4

Right Out: 148282.003+/-0.077 $\chi^2$/NDF: 294673557.8/18

Left In: 137419.861+/-0.142 $\chi^2$/NDF:135539894.3/2

Left: 137627.873+/-0.094 $\chi^2$/NDF: 315263883.7/7

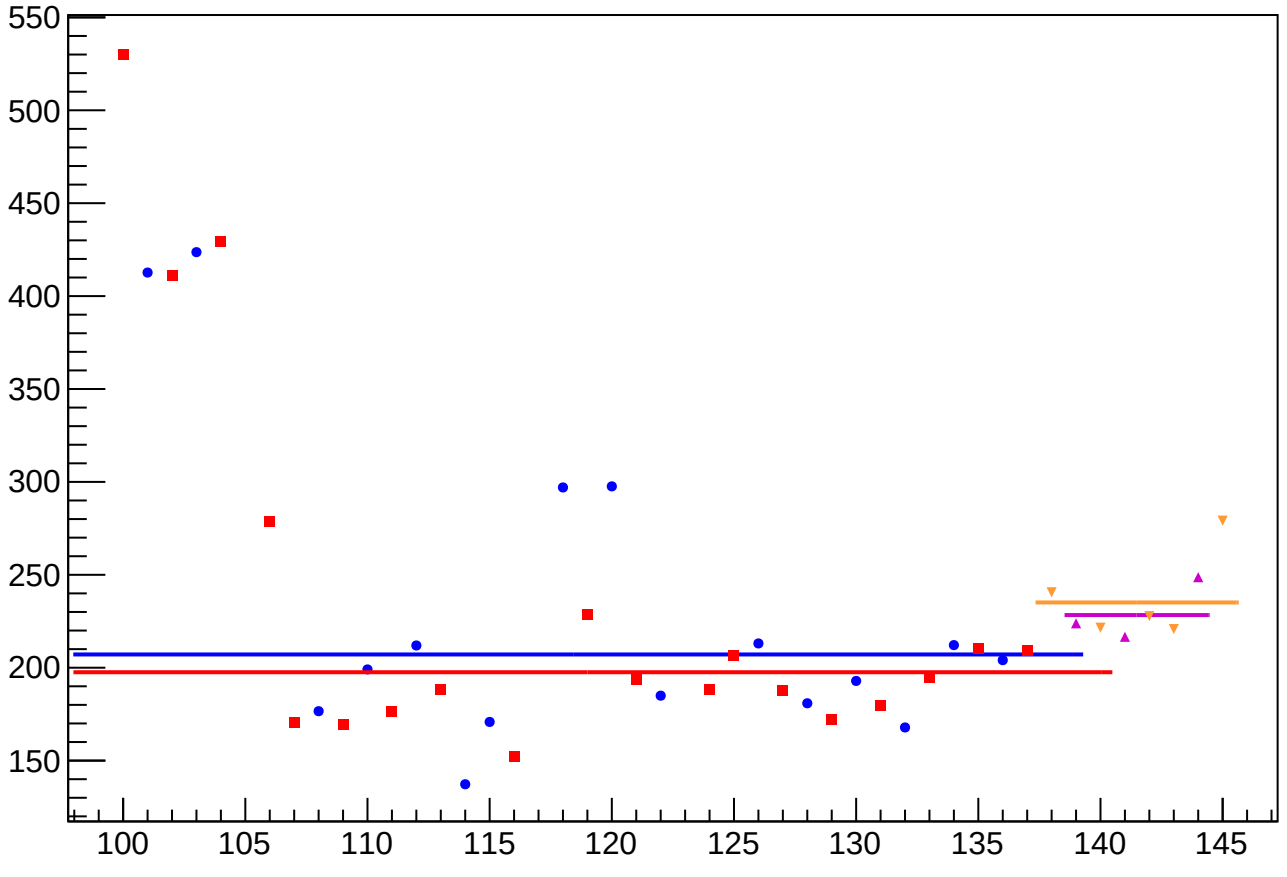
Right: 148396.583+/-0.056 $\chi^2$/NDF: 508678498.1/3

In: 145754.401+/-0.071 $\chi^2$/NDF:4932796104.3/18

Out: 145411.221+/-0.065 $\chi^2$/NDF:5603972882.2/2

All: 145568.514+/-0.048 $\chi^2$/NDF: 10549431

# yield_bpm0l02WS_rms vs Slug, Sign Corrected




Right In: 207.135+/-0.058 $\chi^2$/NDF: 972216.9/15

Left Out: 235.118+/-0.088 $\chi^2$/NDF:53833.3/4

Right Out: 197.571+/-0.054 $\chi^2$/NDF: 903999.3/18

Left In: 228.343+/-0.100 $\chi^2$/NDF:17617.9/2

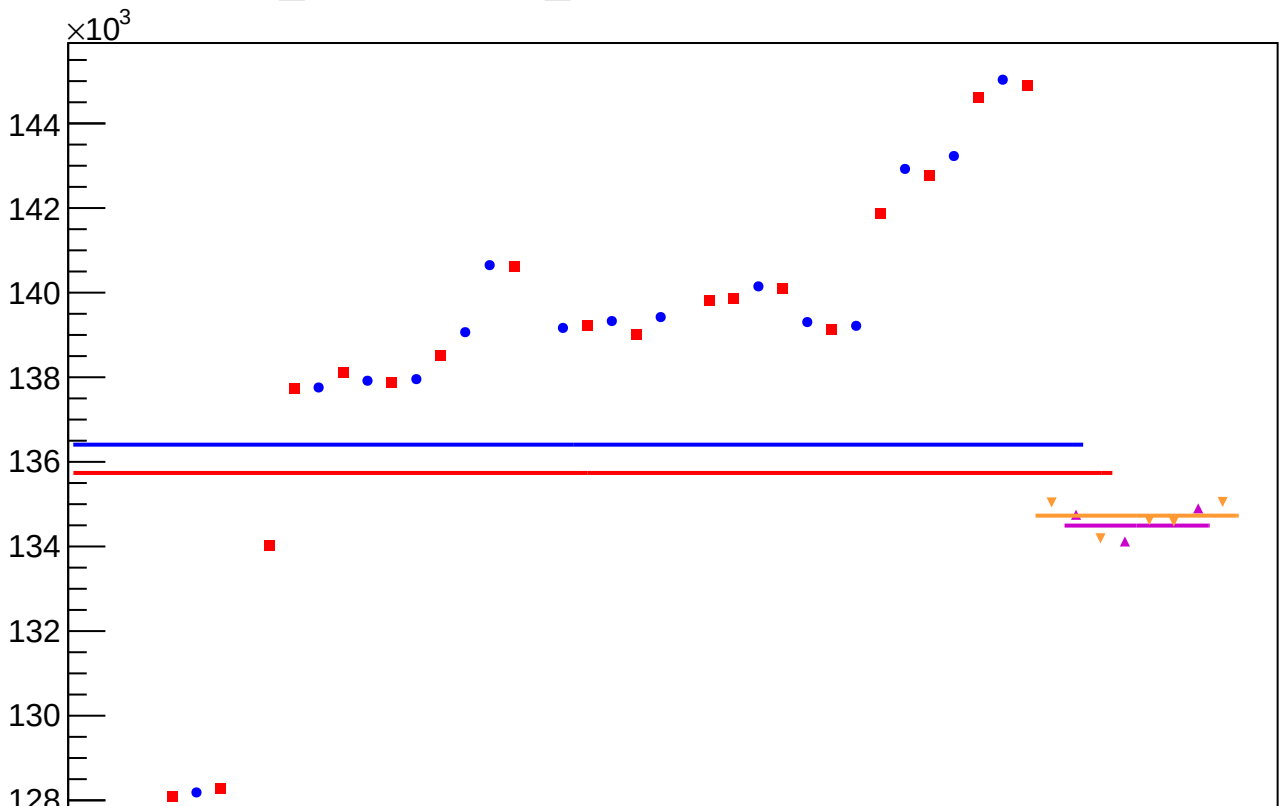
Left: 232.166+/-0.066 $\chi^2$/NDF: 74018.5/7

Right: 202.032+/-0.040 $\chi^2$/NDF: 1890755.2/34

In: 212.430+/-0.050 $\chi^2$/NDF:1023285.7/18

Out: 207.843+/-0.046 $\chi^2$/NDF:1089279.3/23

All: 209.945+/-0.034 $\chi^2$/NDF: 2117089.2/42




Right In: 136406.923+/-0.169 $\chi^2$/NDF: 1577071044.7/15

Left Out: 134728.935+/-0.271 $\chi^2$/NDF:1472258.8/4

Right Out: 135738.412+/-0.177 $\chi^2$/NDF: 1174123878.0/18

Left In: 134494.085+/-0.339 $\chi^2$/NDF:1094104.2/2

Left: 134637.642+/-0.212 $\chi^2$/NDF: 2858926.4/7

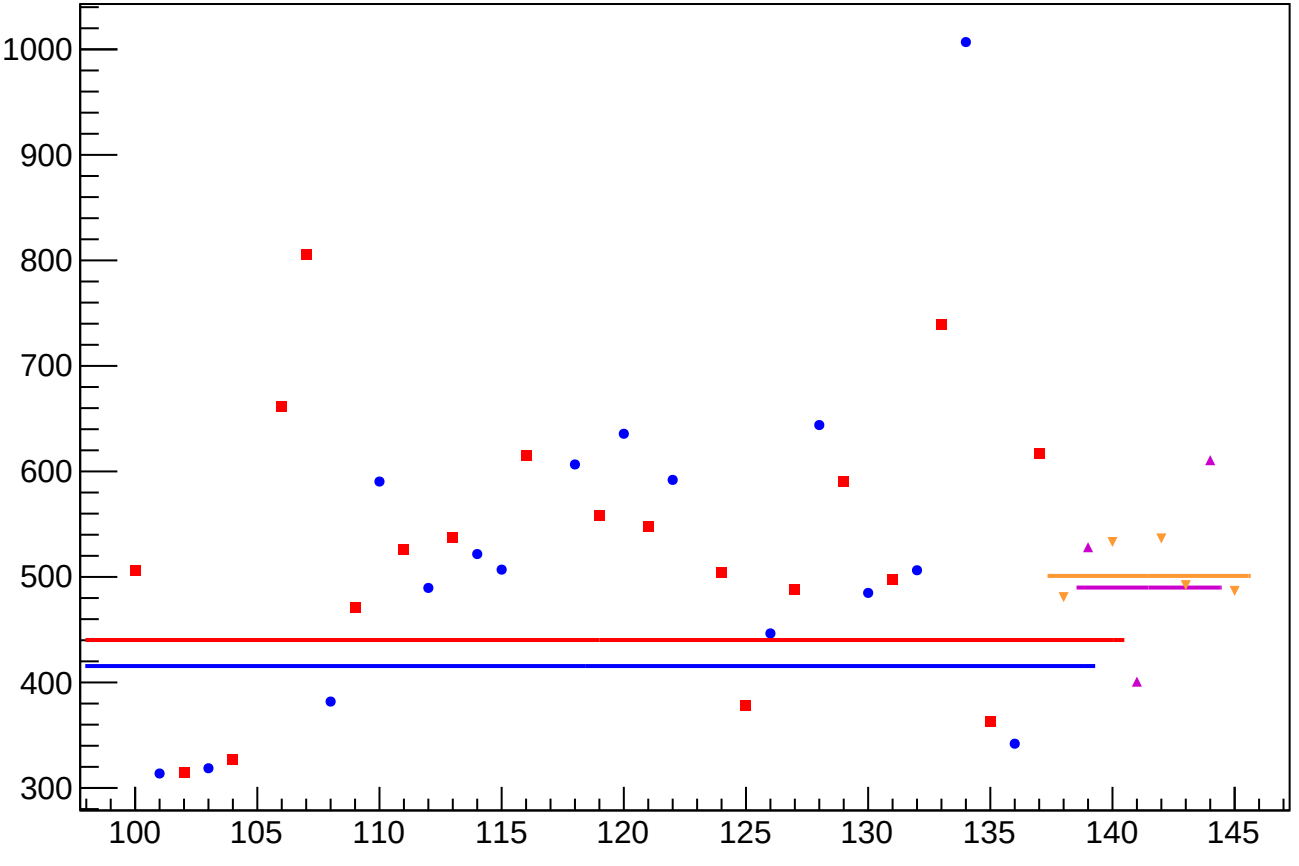
Right: 136088.335+/-0.122 $\chi^2$/NDF: 2758689484.9/

In: 136028.528+/-0.151 $\chi^2$/NDF:1603635356.0/18

Out: 135436.887+/-0.148 $\chi^2$/NDF:1185347970.9/2

All: 135726.706+/-0.106 $\chi^2$/NDF: 27968166

# yield_bpm0l03WS_rms vs Slug, Sign Corrected




Right In: 415.547+/-0.119 $\chi^2$/NDF: 1031600.7/15

Left Out: 500.962+/-0.191 $\chi^2$/NDF:13420.4/4

Right Out: 440.218+/-0.125 $\chi^2$/NDF: 910790.1/18

Left In: 489.925+/-0.240 $\chi^2$/NDF:136269.0/2

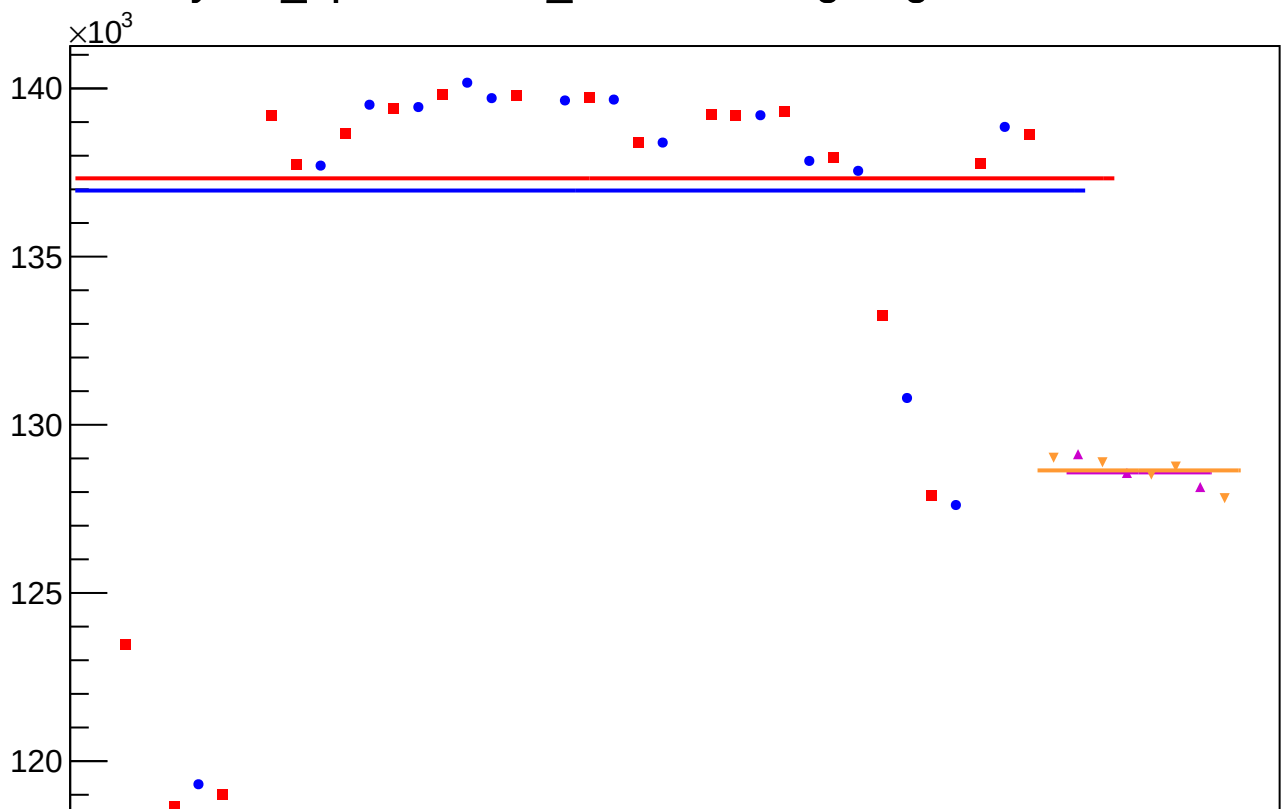
Left: 496.672+/-0.150 $\chi^2$/NDF: 150981.9/7

Right: 427.304+/-0.086 $\chi^2$/NDF: 1962803.8/34

In: 430.261+/-0.107 $\chi^2$/NDF:1244886.9/18

Out: 458.362+/-0.105 $\chi^2$/NDF:994832.3/23

All: 444.596+/-0.075 $\chi^2$/NDF: 2275062.2/42




Right In: 136964.958+/-0.070 $\chi^2$/NDF: 5807770301.4/15

Left Out: 128643.877+/-0.090 $\chi^2$/NDF:21030512.9/4

Right Out: 137327.469+/-0.066 $\chi^2$/NDF: 5737745895.7/18

Left In: 128584.509+/-0.106 $\chi^2$/NDF:14197773.6/2

Left: 128618.934+/-0.069 $\chi^2$/NDF: 35410460.3/7

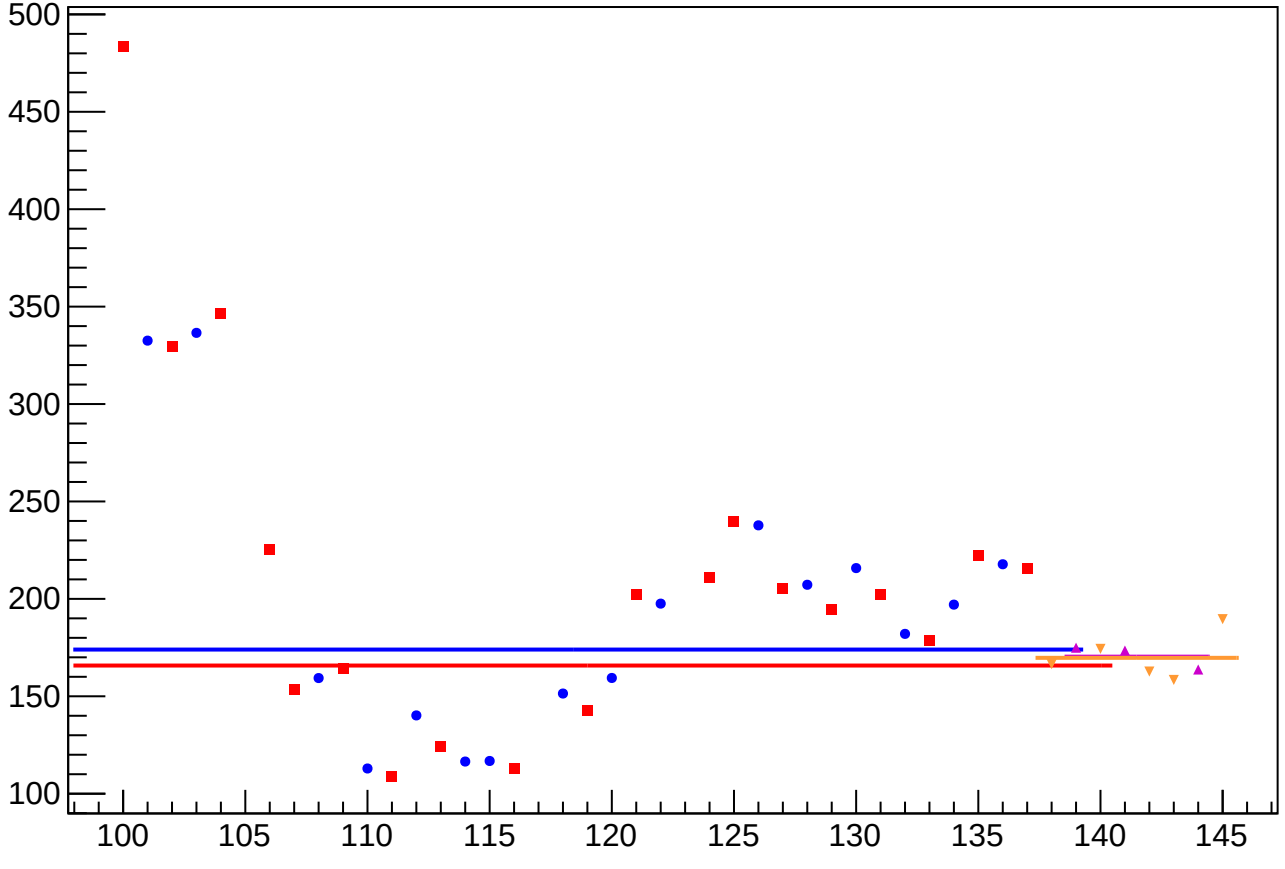
Right: 137157.181+/-0.048 $\chi^2$/NDF: 1559848727.

In: 134431.212+/-0.058 $\chi^2$/NDF:10189381539.7/

Out: 134319.911+/-0.053 $\chi^2$/NDF:11822382993.

All: 134370.391+/-0.039 $\chi^2$/NDF: 220137602

# yield_bpm0l04WS_rms vs Slug, Sign Corrected




Right In: 173.982+/-0.049 $\chi^2$/NDF: 1188493.1/15

Left Out: 169.733+/-0.064 $\chi^2$/NDF:28709.0/4

Right Out: 165.780+/-0.046 $\chi^2$/NDF: 1433162.4/18

Left In: 170.345+/-0.075 $\chi^2$/NDF:4580.7/2

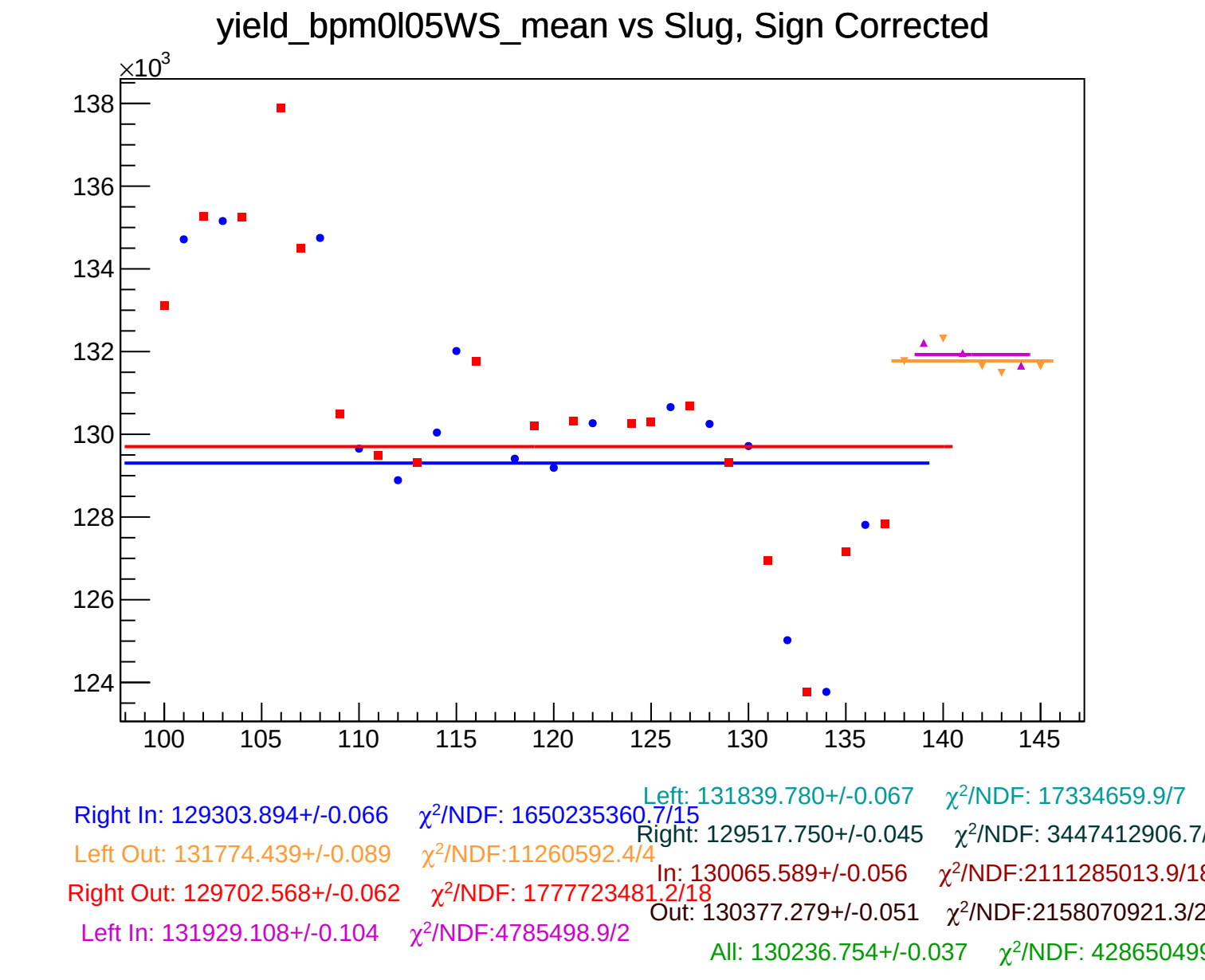
Left: 169.990+/-0.049 $\chi^2$/NDF: 33328.4/7

Right: 169.633+/-0.034 $\chi^2$/NDF: 2636327.1/34

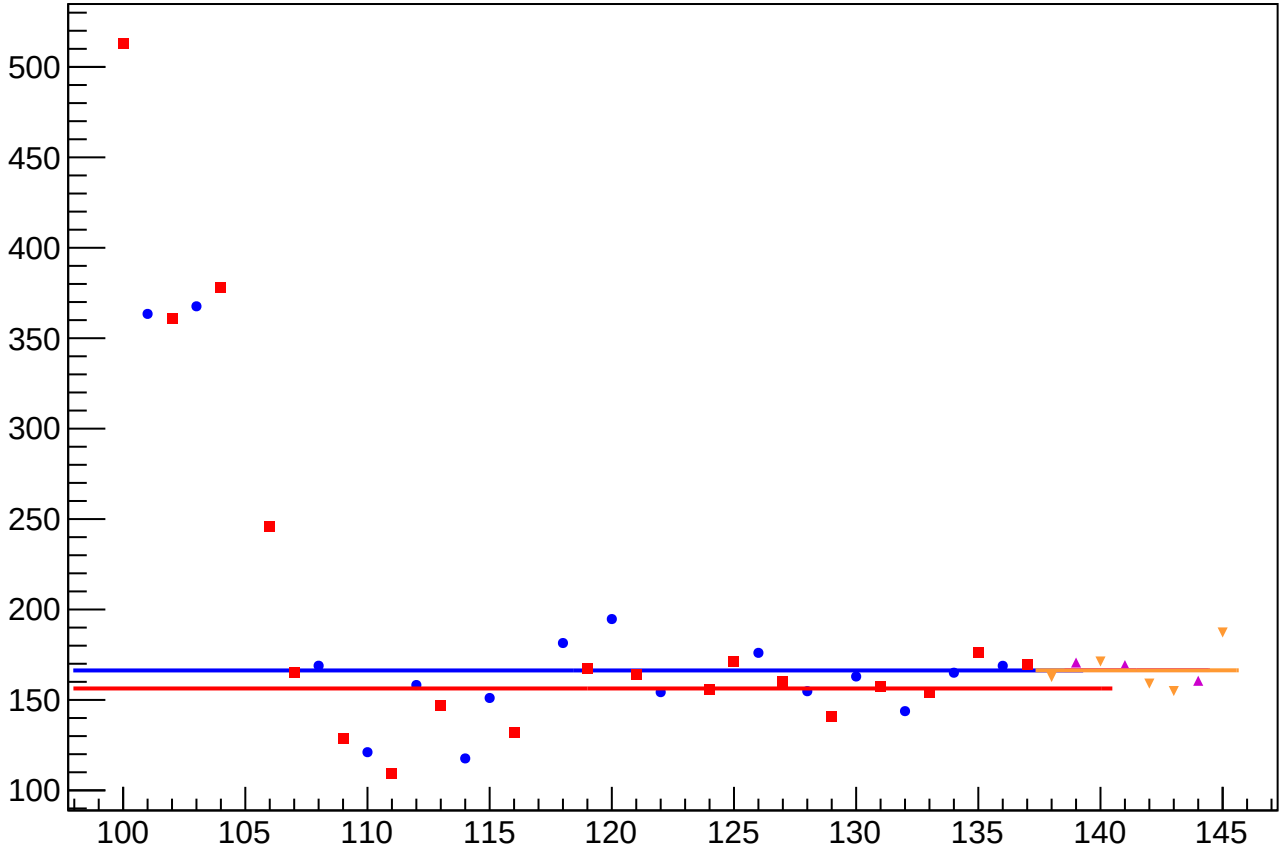
In: 172.882+/-0.041 $\chi^2$/NDF:1194719.1/18

Out: 167.149+/-0.038 $\chi^2$/NDF:1464383.6/23

All: 169.749+/-0.028 $\chi^2$/NDF: 2669691.8/42


yield_bpm0l05WS_mean vs Slug, Sign Corrected
×10^3
138
136
134
132
130
128
126
124
100
105
110
115
120
125
130
135
140
145
Right In: 129303.894+/-0.066 χ²/NDF: 1650235360.7/15
Left Out: 131774.439+/-0.089 χ²/NDF:11260592.4/4
Right Out: 129702.568+/-0.062 χ²/NDF: 1777723481.2/18
Left In: 131929.108+/-0.104 χ²/NDF:4785498.9/2
Left: 131839.780+/-0.067 χ²/NDF: 17334659.9/7
Right: 129517.750+/-0.045 χ²/NDF: 3447412906.7/
In: 130065.589+/-0.056 χ²/NDF:2111285013.9/18
Out: 130377.279+/-0.051 χ²/NDF:2158070921.3/2
All: 130236.754+/-0.037 χ²/NDF: 42865049

# yield_bpm0l05WS_rms vs Slug, Sign Corrected




Right In: 166.302+/-0.047 $\chi^2$/NDF: 937947.6/15

Left Out: 166.372+/-0.063 $\chi^2$/NDF:32182.9/4

Right Out: 156.334+/-0.044 $\chi^2$/NDF: 1172834.9/18

Left In: 166.522+/-0.073 $\chi^2$/NDF:3843.6/2

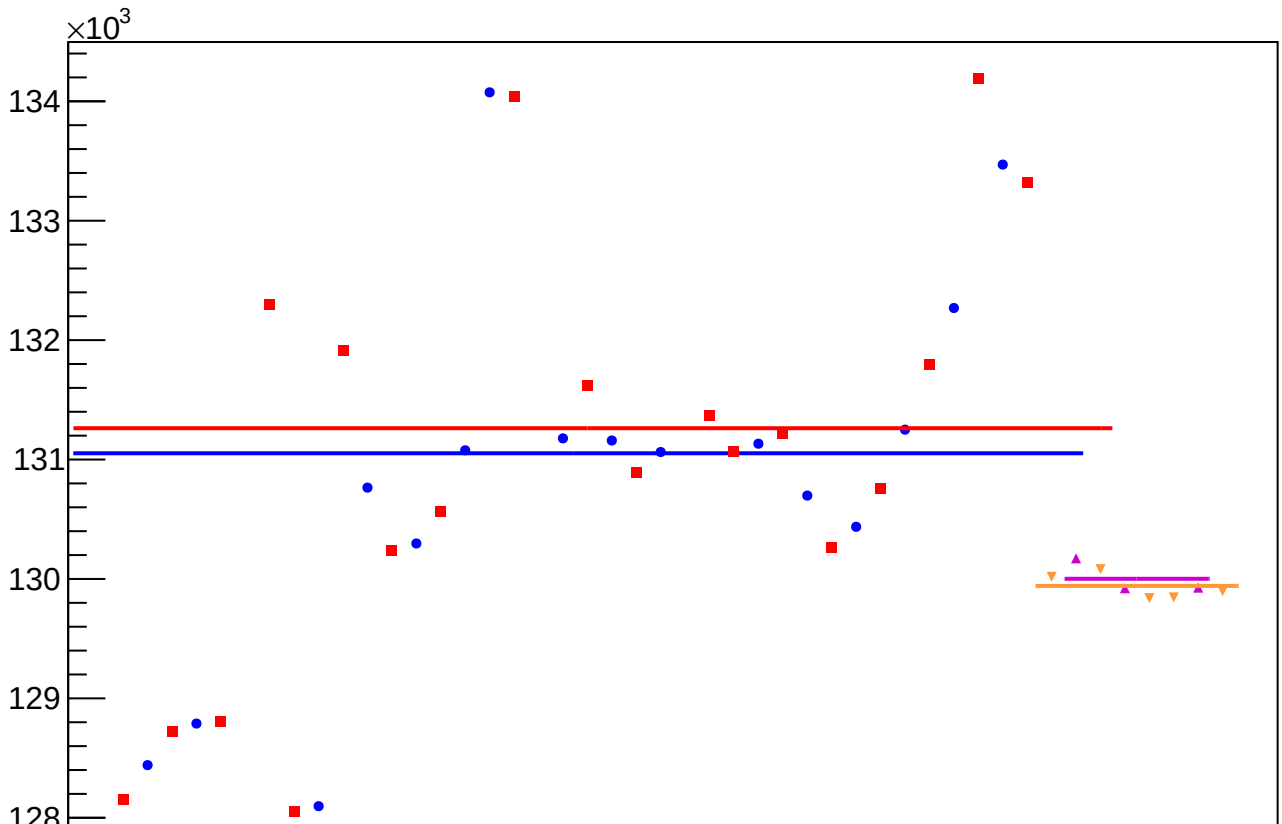
Left: 166.435+/-0.048 $\chi^2$/NDF: 36028.9/7

Right: 160.955+/-0.032 $\chi^2$/NDF: 2135107.2/34

In: 166.366+/-0.039 $\chi^2$/NDF:941797.6/18

Out: 159.603+/-0.036 $\chi^2$/NDF:1222345.8/23

All: 162.652+/-0.026 $\chi^2$/NDF: 2180290.4/42




Right In: 131052.422+/-0.061 $\chi^2$/NDF: 523713045.8/15

Left Out: 129941.793+/-0.085 $\chi^2$/NDF:1325301.2/4

Right Out: 131262.232+/-0.057 $\chi^2$/NDF: 604278186.1/18

Left In: 130001.333+/-0.100 $\chi^2$/NDF:1302224.8/2

Left: 129966.693+/-0.065 $\chi^2$/NDF: 2832953.4/7

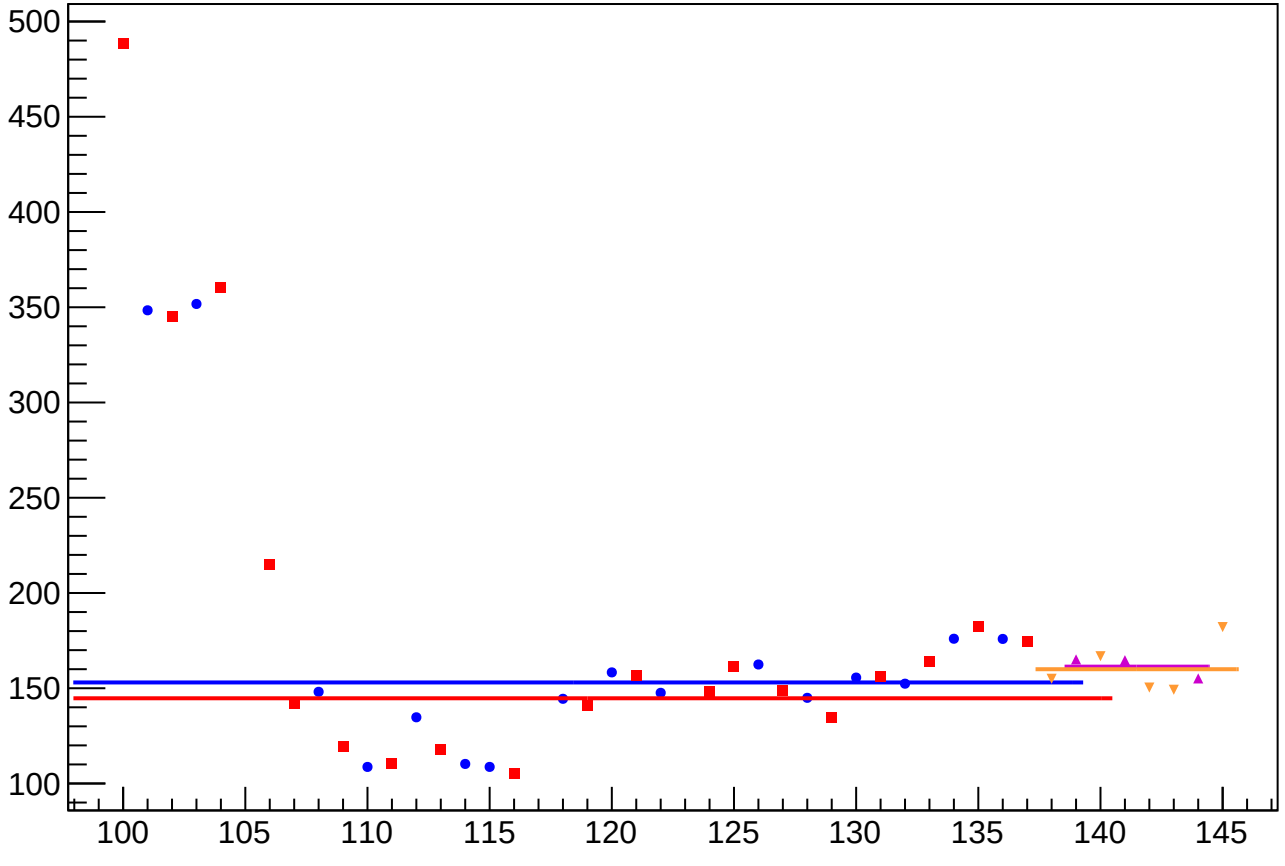
Right: 131164.431+/-0.041 $\chi^2$/NDF: 1134382049.3/

In: 130770.650+/-0.052 $\chi^2$/NDF:605555468.2/18

Out: 130855.664+/-0.047 $\chi^2$/NDF:772803110.7/23

All: 130817.216+/-0.035 $\chi^2$/NDF: 13798294

# yield_bpm0l06WS_rms vs Slug, Sign Corrected




Right In: 153.043+/-0.043 $\chi^2$/NDF: 1059470.3/15

Left Out: 159.985+/-0.060 $\chi^2$/NDF:39271.9/4

Right Out: 144.731+/-0.040 $\chi^2$/NDF: 1263423.6/18

Left In: 161.336+/-0.071 $\chi^2$/NDF:4432.4/2

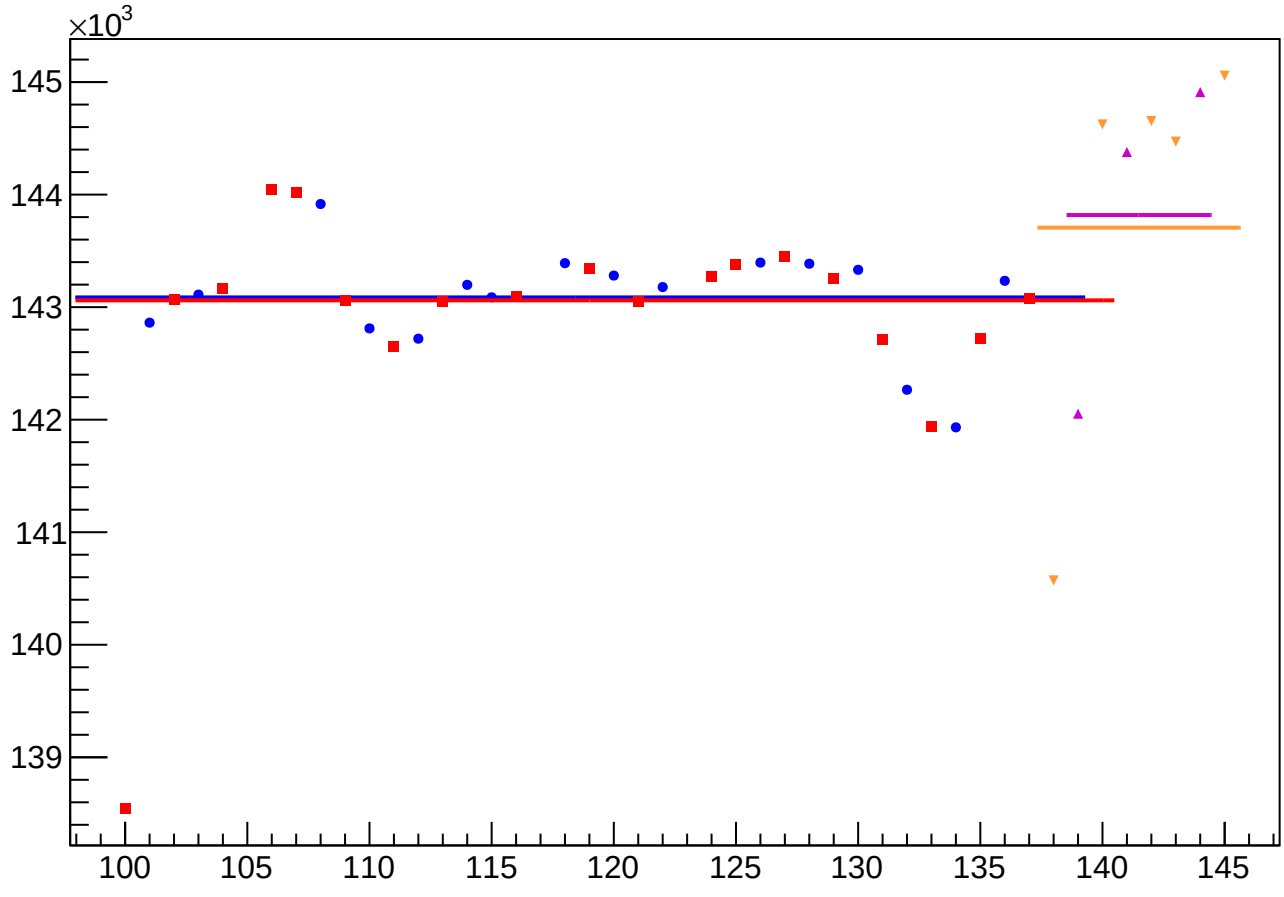
Left: 160.550+/-0.046 $\chi^2$/NDF: 43915.9/7

Right: 148.605+/-0.029 $\chi^2$/NDF: 2342954.4/34

In: 155.266+/-0.037 $\chi^2$/NDF:1073931.0/18

Out: 149.428+/-0.033 $\chi^2$/NDF:1347324.9/23

All: 152.068+/-0.025 $\chi^2$/NDF: 2435129.8/42




Right In: 143086.477+/-0.065 $\chi^2$/NDF: 46726277.8/15

Left Out: 143706.483+/-0.101 $\chi^2$/NDF:302648108.0/4

Right Out: 143060.268+/-0.061 $\chi^2$/NDF: 51715744.7/18

Left In: 143818.466+/-0.117 $\chi^2$/NDF:111210208.0/2

Left: 143754.139+/-0.077 $\chi^2$/NDF: 414380753.6/7

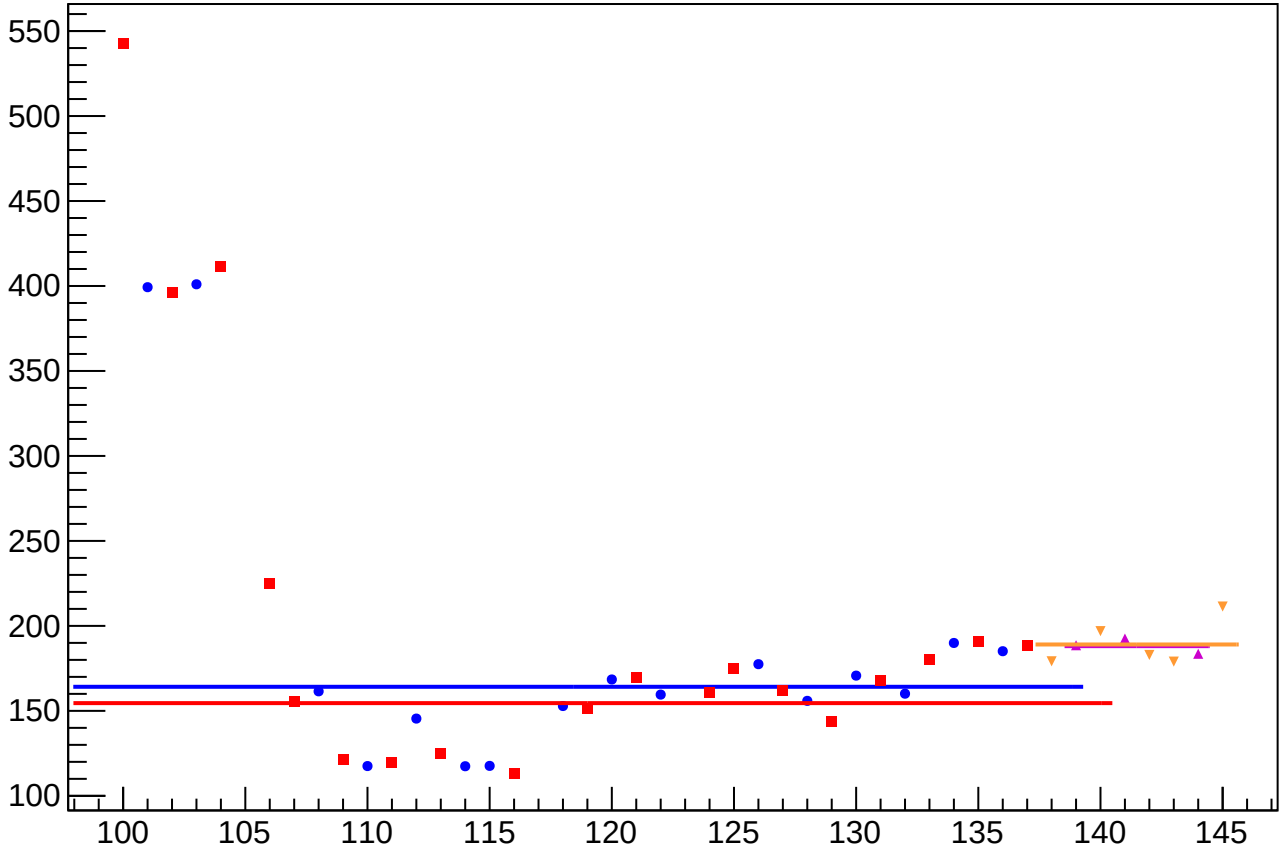
Right: 143072.451+/-0.044 $\chi^2$/NDF: 98528807.3/34

In: 143258.499+/-0.057 $\chi^2$/NDF:187663366.5/18

Out: 143231.383+/-0.052 $\chi^2$/NDF:384419418.3/23

All: 143243.719+/-0.038 $\chi^2$/NDF: 57220646

# yield_bpm0l07WS_rms vs Slug, Sign Corrected




Right In: 164.167+/-0.046 $\chi^2$/NDF: 1129764.4/15

Left Out: 189.061+/-0.071 $\chi^2$/NDF:30456.6/4

Right Out: 154.558+/-0.043 $\chi^2$/NDF: 1366830.5/18

Left In: 188.081+/-0.083 $\chi^2$/NDF:1977.5/2

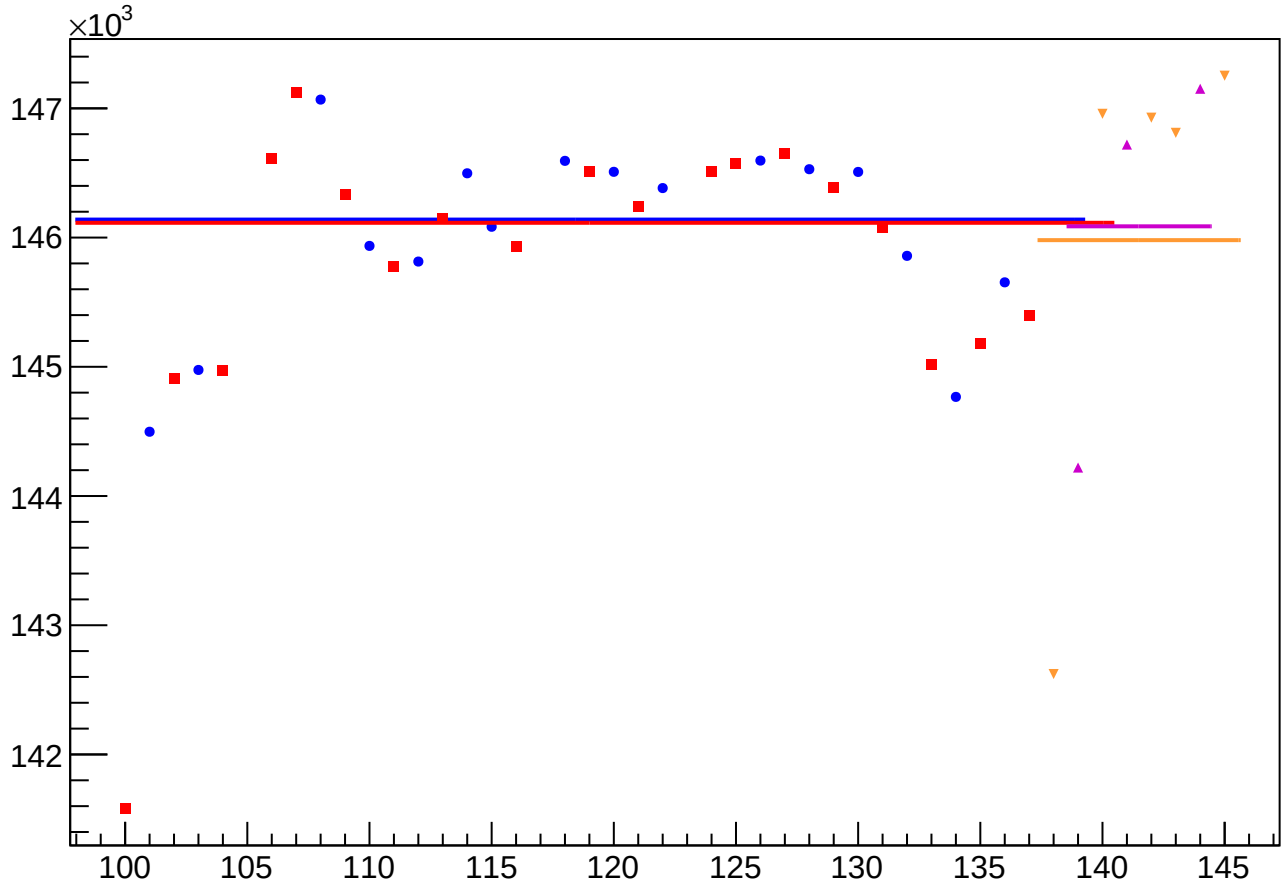
Left: 188.644+/-0.054 $\chi^2$/NDF: 32514.2/7

Right: 159.024+/-0.031 $\chi^2$/NDF: 2519924.8/34

In: 169.787+/-0.040 $\chi^2$/NDF:1195201.4/18

Out: 163.694+/-0.037 $\chi^2$/NDF:1568651.8/23

All: 166.466+/-0.027 $\chi^2$/NDF: 2776340.0/42




Right In: 146139.237+/-0.067 $\chi^2$/NDF: 71721843.8/15

Left Out: 145980.102+/-0.099 $\chi^2$/NDF:342314817.6/4

Right Out: 146114.458+/-0.062 $\chi^2$/NDF: 73102068.4/18

Left In: 146087.071+/-0.116 $\chi^2$/NDF:122268391.0/2

Left: 146025.101+/-0.075 $\chi^2$/NDF: 465074632.6/7

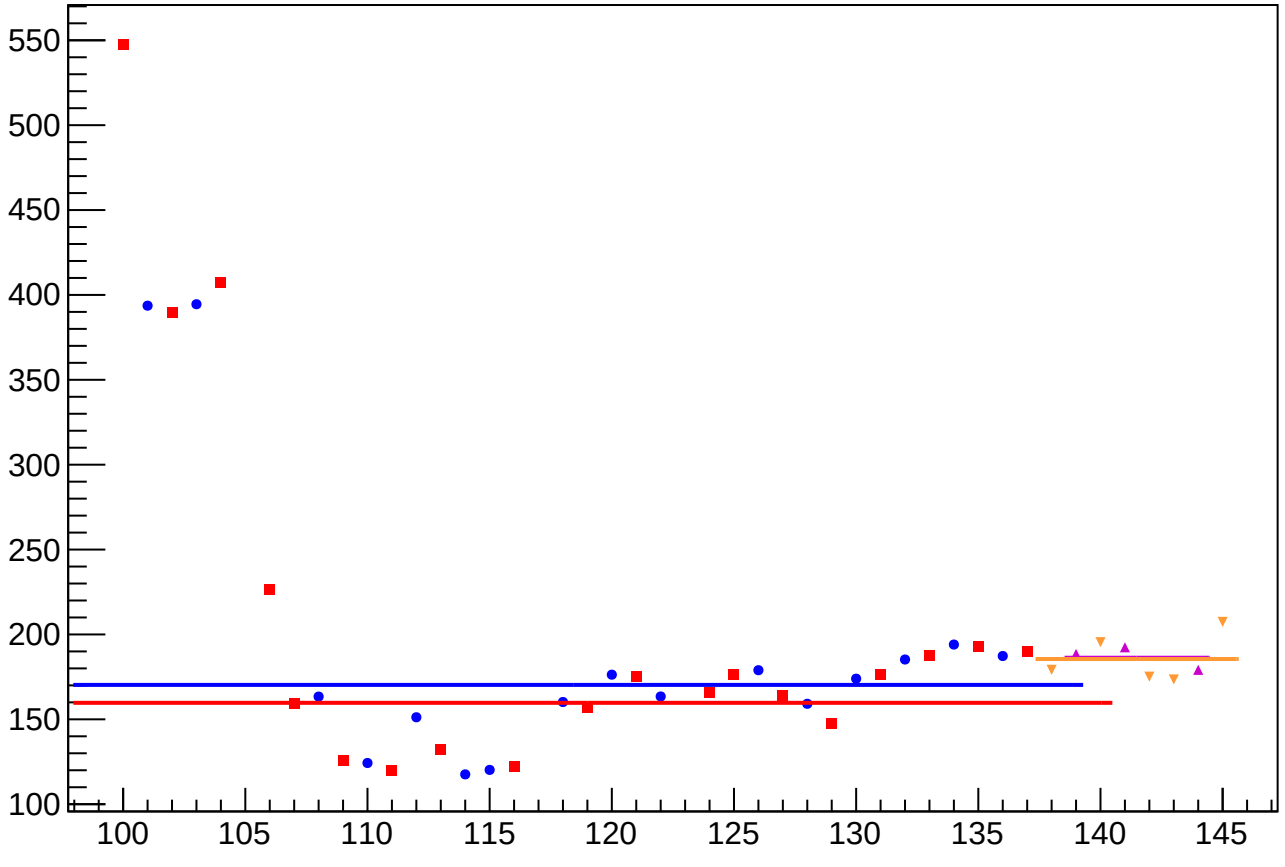
Right: 146125.912+/-0.046 $\chi^2$/NDF: 144896615.7/3

In: 146126.098+/-0.058 $\chi^2$/NDF:194141159.9/18

Out: 146076.171+/-0.053 $\chi^2$/NDF:416734646.9/23

All: 146098.688+/-0.039 $\chi^2$/NDF: 61127857

# yield_bpm0l08WS_rms vs Slug, Sign Corrected




Right In: 170.279+/-0.048 $\chi^2$/NDF: 1057631.0/15

Left Out: 185.525+/-0.070 $\chi^2$/NDF:33971.3/4

Right Out: 159.724+/-0.044 $\chi^2$/NDF: 1291290.8/18

Left In: 186.290+/-0.082 $\chi^2$/NDF:4782.7/2

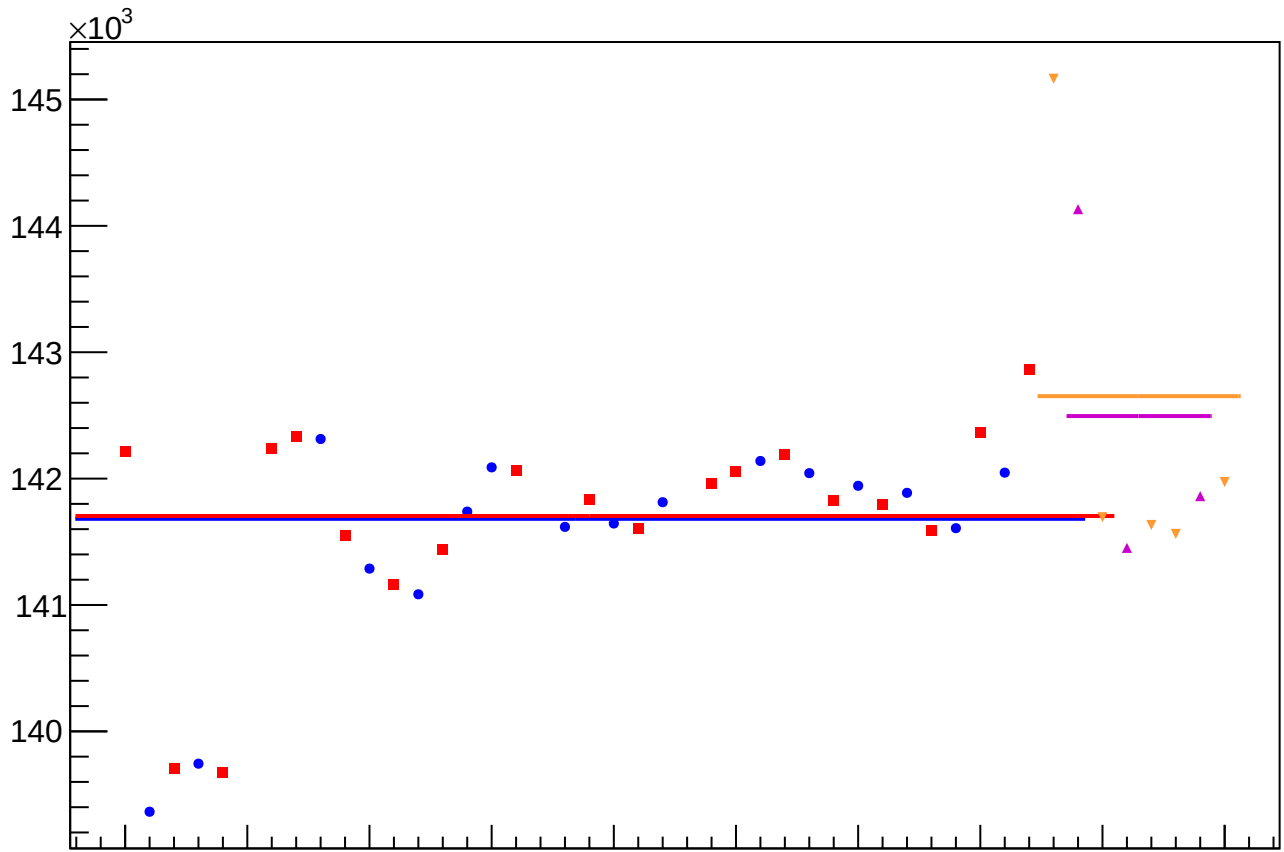
Left: 185.847+/-0.053 $\chi^2$/NDF: 38804.1/7

Right: 164.603+/-0.032 $\chi^2$/NDF: 2375303.6/34

In: 174.312+/-0.041 $\chi^2$/NDF:1090847.9/18

Out: 167.077+/-0.037 $\chi^2$/NDF:1422456.6/23

All: 170.340+/-0.028 $\chi^2$/NDF: 2530219.6/42




Right In: 141681.846+/-0.068 $\chi^2$/NDF: 64292997.9/15

Left Out: 142652.317+/-0.111 $\chi^2$/NDF:191106496.7/4

Right Out: 141704.185+/-0.064 $\chi^2$/NDF: 65526811.0/18

Left In: 142494.914+/-0.129 $\chi^2$/NDF:83501539.8/2

Left: 142585.210+/-0.084 $\chi^2$/NDF: 275461167.6/7

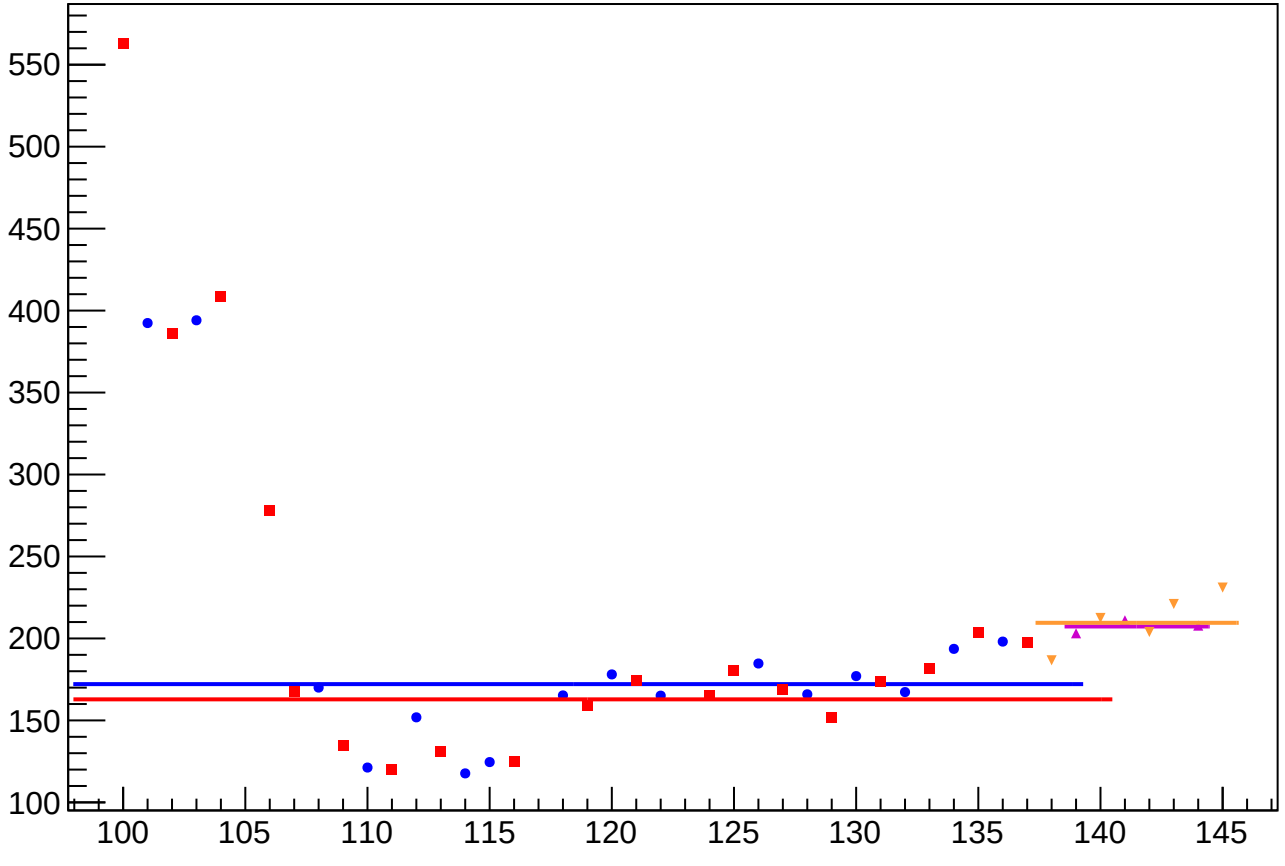
Right: 141693.772+/-0.047 $\chi^2$/NDF: 129876966.3/3

In: 141859.588+/-0.060 $\chi^2$/NDF:178801487.8/18

Out: 141938.735+/-0.055 $\chi^2$/NDF:311278315.7/23

All: 141902.579+/-0.041 $\chi^2$/NDF: 491014098

# yield_bpm0l09WS_rms vs Slug, Sign Corrected




Right In: 172.139+/-0.048 $\chi^2$/NDF: 1068587.8/15

Left Out: 209.540+/-0.079 $\chi^2$/NDF:41876.6/4

Right Out: 162.845+/-0.045 $\chi^2$/NDF: 1305855.8/18

Left In: 207.301+/-0.091 $\chi^2$/NDF:1261.1/2

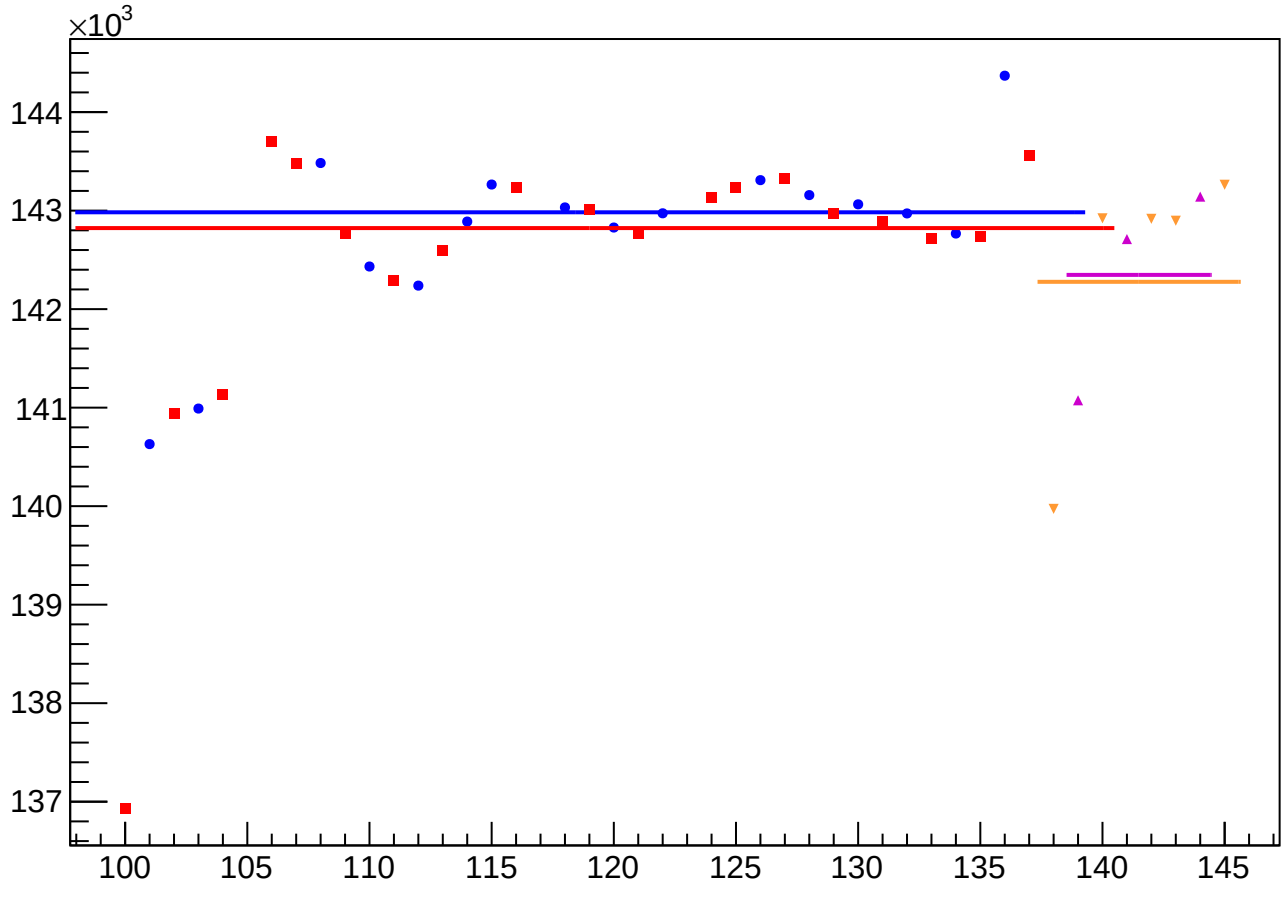
Left: 208.586+/-0.060 $\chi^2$/NDF: 43482.8/7

Right: 167.177+/-0.033 $\chi^2$/NDF: 2394232.5/34

In: 179.826+/-0.043 $\chi^2$/NDF:1185832.7/18

Out: 174.396+/-0.039 $\chi^2$/NDF:1612823.1/23

All: 176.877+/-0.029 $\chi^2$/NDF: 2807449.0/42




Right In: 142983.006+/-0.069 $\chi^2$/NDF: 107696217.2/15

Left Out: 142277.276+/-0.096 $\chi^2$/NDF:179811716.1/4

Right Out: 142822.727+/-0.064 $\chi^2$/NDF: 63581232.6/18

Left In: 142347.566+/-0.113 $\chi^2$/NDF:61979134.5/2

Left: 142306.911+/-0.073 $\chi^2$/NDF: 242016072.9/7

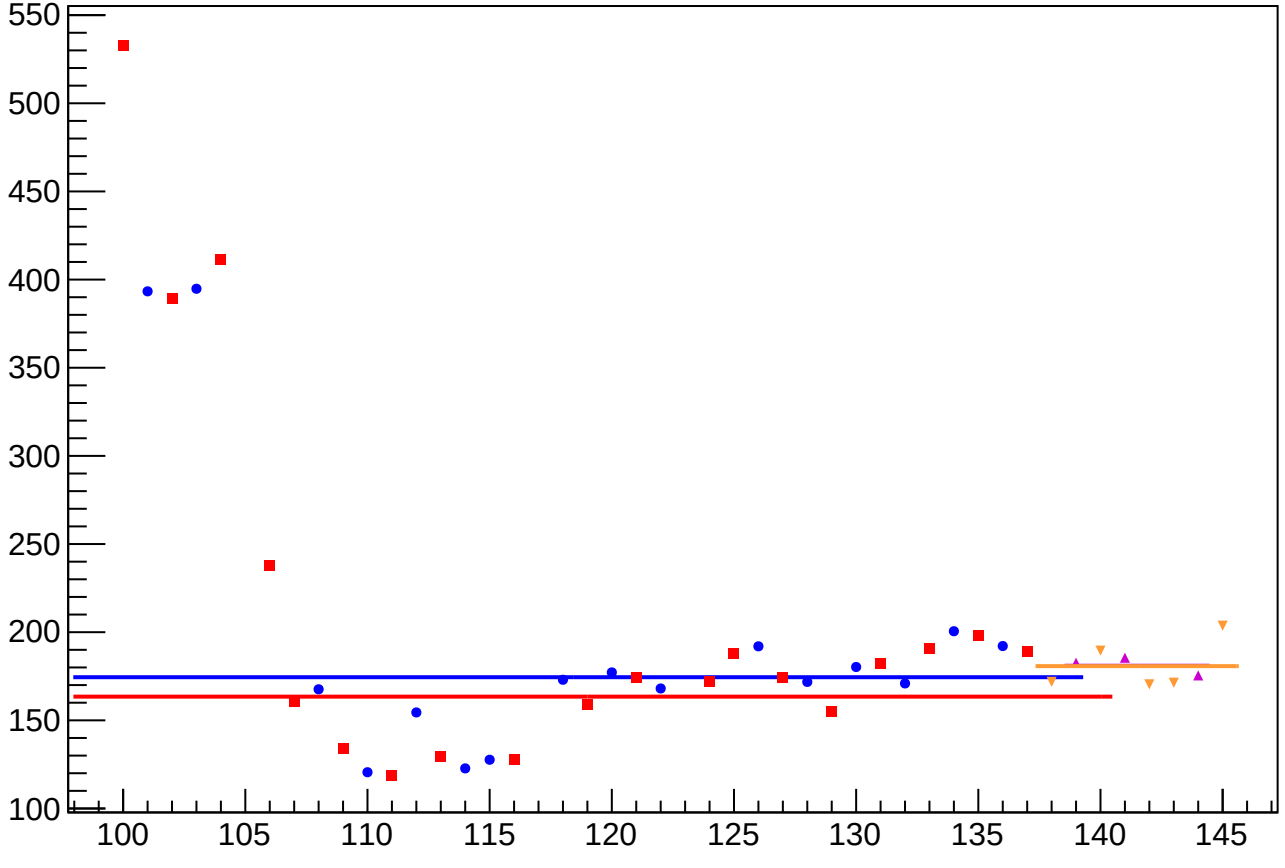
Right: 142896.762+/-0.047 $\chi^2$/NDF: 174171580.7/3

In: 142809.224+/-0.059 $\chi^2$/NDF:192795609.4/18

Out: 142655.190+/-0.053 $\chi^2$/NDF:265680900.9/23

All: 142724.527+/-0.040 $\chi^2$/NDF: 46223616

# yield_bpm0l10WS_rms vs Slug, Sign Corrected




Right In: 174.467+/-0.049 $\chi^2$/NDF: 1049126.7/15

Left Out: 180.747+/-0.068 $\chi^2$/NDF:35355.3/4

Right Out: 163.448+/-0.045 $\chi^2$/NDF: 1282494.1/18

Left In: 180.972+/-0.080 $\chi^2$/NDF:2905.1/2

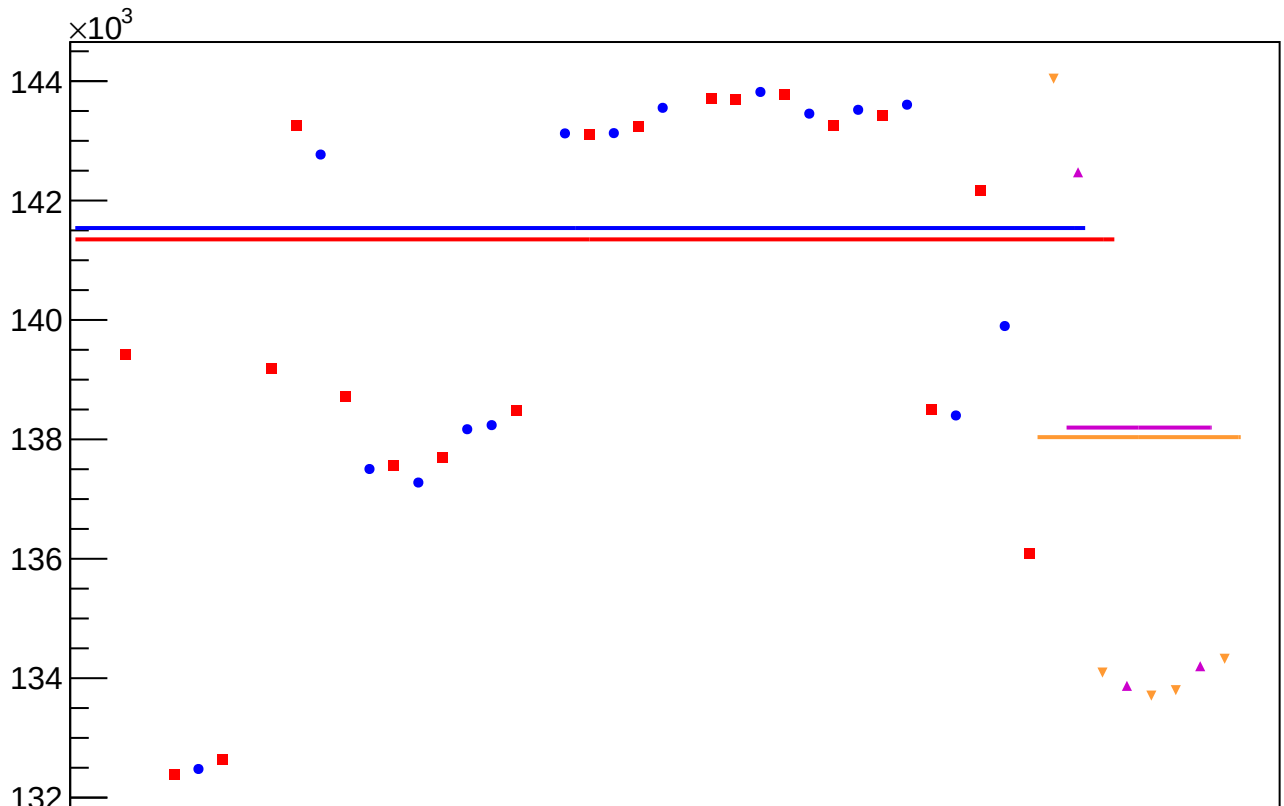
Left: 180.842+/-0.052 $\chi^2$/NDF: 38265.0/7

Right: 168.538+/-0.033 $\chi^2$/NDF: 2358977.1/34

In: 176.246+/-0.042 $\chi^2$/NDF:1056878.0/18

Out: 168.762+/-0.038 $\chi^2$/NDF:1362683.4/23

All: 172.131+/-0.028 $\chi^2$/NDF: 2437314.6/42




Right In: 141539.467+/-0.101 $\chi^2$/NDF: 947743743.7/15

Left Out: 138037.282+/-0.153 $\chi^2$/NDF:1031176227.5/4

Right Out: 141349.499+/-0.101 $\chi^2$/NDF: 926661757.9/18

Left In: 138197.544+/-0.176 $\chi^2$/NDF:576065245.9/2

Left: 138106.609+/-0.116 $\chi^2$/NDF: 1607713024.1/7

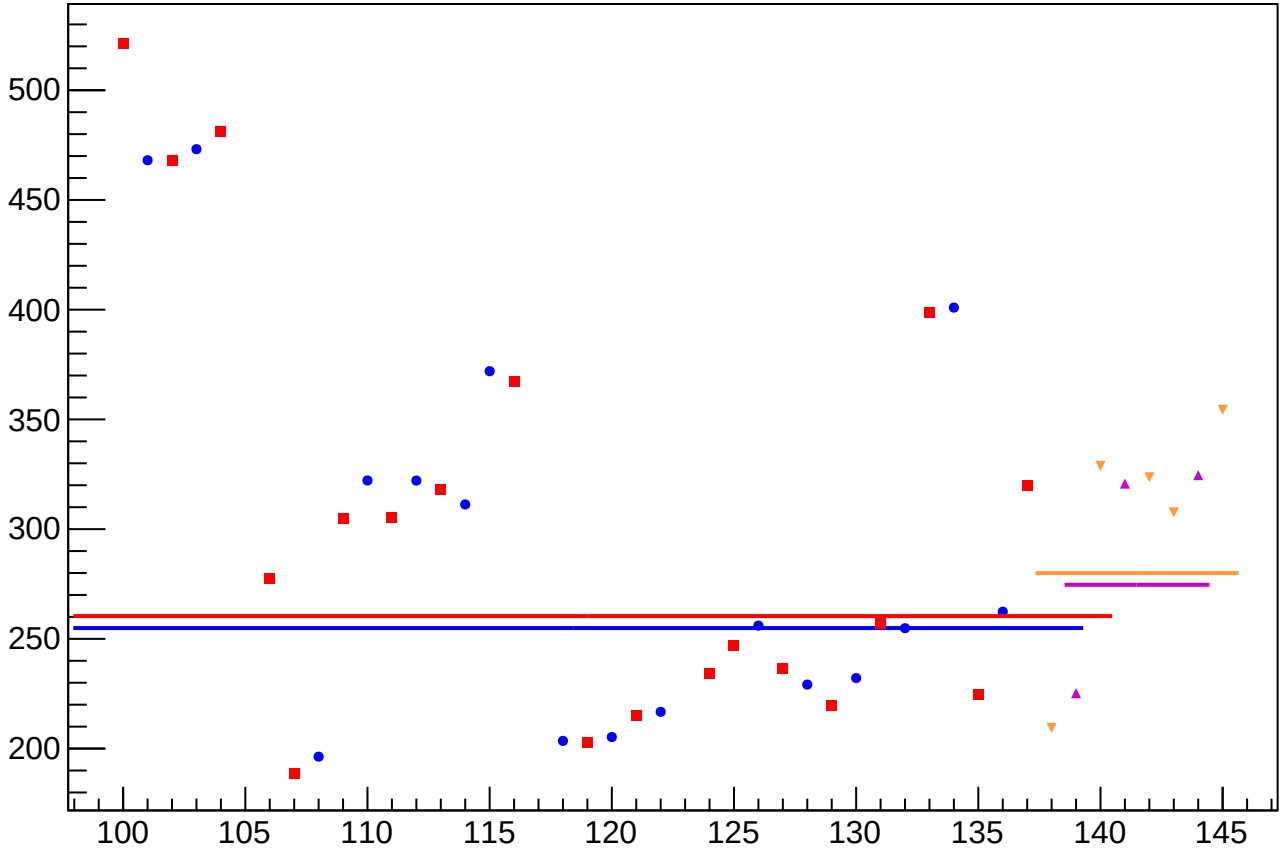
Right: 141444.713+/-0.071 $\chi^2$/NDF: 1876176691.0/

In: 140712.467+/-0.087 $\chi^2$/NDF:1795759376.9/18

Out: 140347.989+/-0.084 $\chi^2$/NDF:2282670982.5/2

All: 140523.768+/-0.061 $\chi^2$/NDF: 408742323

# yield_bpm0r03WS_rms vs Slug, Sign Corrected




Right In: 254.919+/-0.071 $\chi^2$/NDF: 949952.1/15

Left Out: 279.964+/-0.109 $\chi^2$/NDF:299790.2/4

Right Out: 260.369+/-0.071 $\chi^2$/NDF: 993300.6/18

Left In: 274.633+/-0.124 $\chi^2$/NDF:153721.5/2

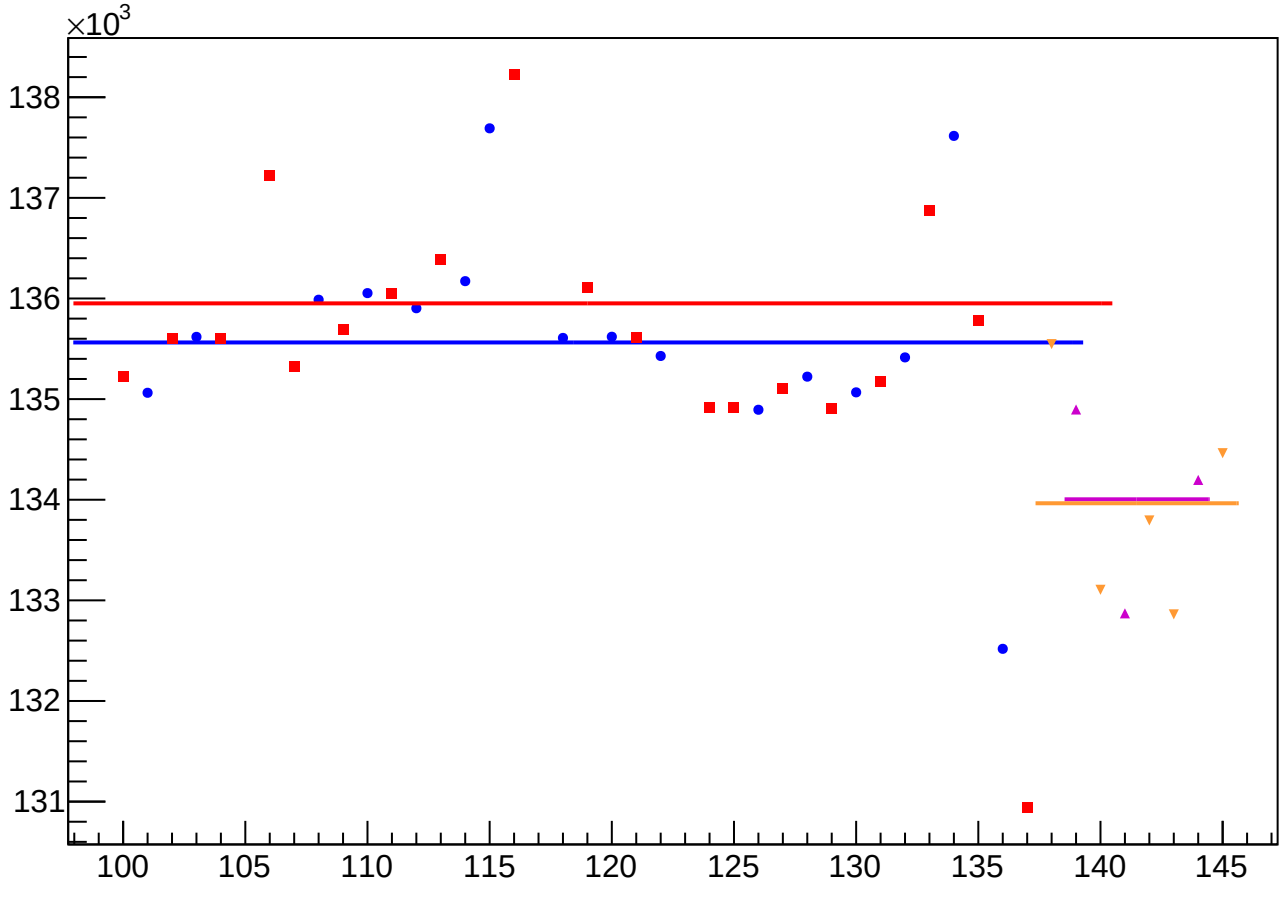
Left: 277.658+/-0.082 $\chi^2$/NDF: 454555.4/7

Right: 257.637+/-0.050 $\chi^2$/NDF: 1946167.7/34

In: 259.798+/-0.062 $\chi^2$/NDF:1122600.4/18

Out: 266.294+/-0.060 $\chi^2$/NDF:1315830.4/23

All: 263.161+/-0.043 $\chi^2$/NDF: 2444144.2/42




Right In: 135563.062+/-0.118 $\chi^2$/NDF: 94169293.7/15

Left Out: 133964.902+/-0.103 $\chi^2$/NDF:102597085.0/4

Right Out: 135951.486+/-0.106 $\chi^2$/NDF: 91577209.6/18

Left In: 134004.164+/-0.119 $\chi^2$/NDF:47571913.9/2

Left: 133981.655+/-0.078 $\chi^2$/NDF: 150231013.6/7

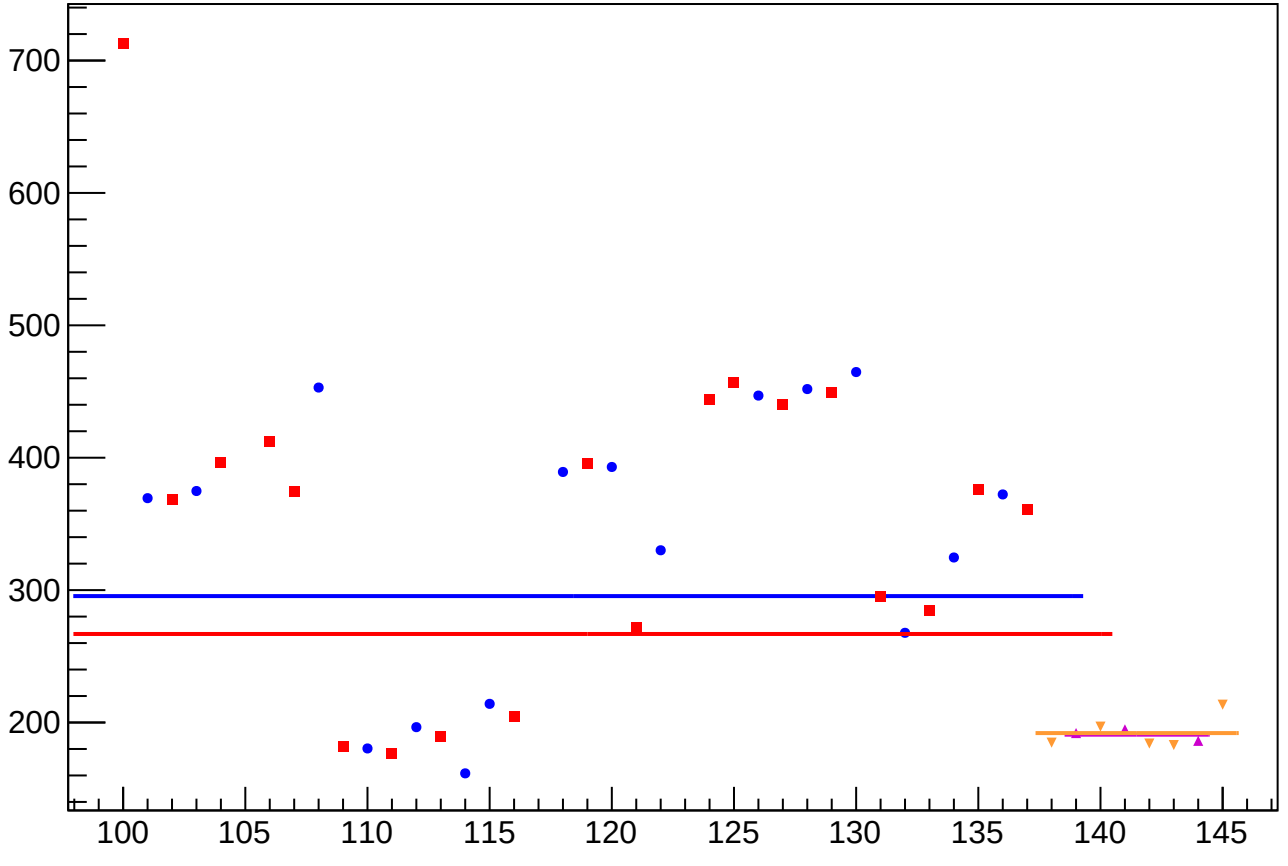
Right: 135777.958+/-0.079 $\chi^2$/NDF: 191705440.0/3

In: 134790.327+/-0.084 $\chi^2$/NDF:227738229.8/18

Out: 134926.236+/-0.074 $\chi^2$/NDF:374239715.9/23

All: 134866.902+/-0.056 $\chi^2$/NDF: 60345120

# yield_bpm0r05WS_rms vs Slug, Sign Corrected




Right In: 295.481+/-0.084 $\chi^2$/NDF: 1442531.9/15

Left Out: 192.009+/-0.073 $\chi^2$/NDF:24384.1/4

Right Out: 266.864+/-0.075 $\chi^2$/NDF: 1678073.6/18

Left In: 190.808+/-0.084 $\chi^2$/NDF:1885.1/2

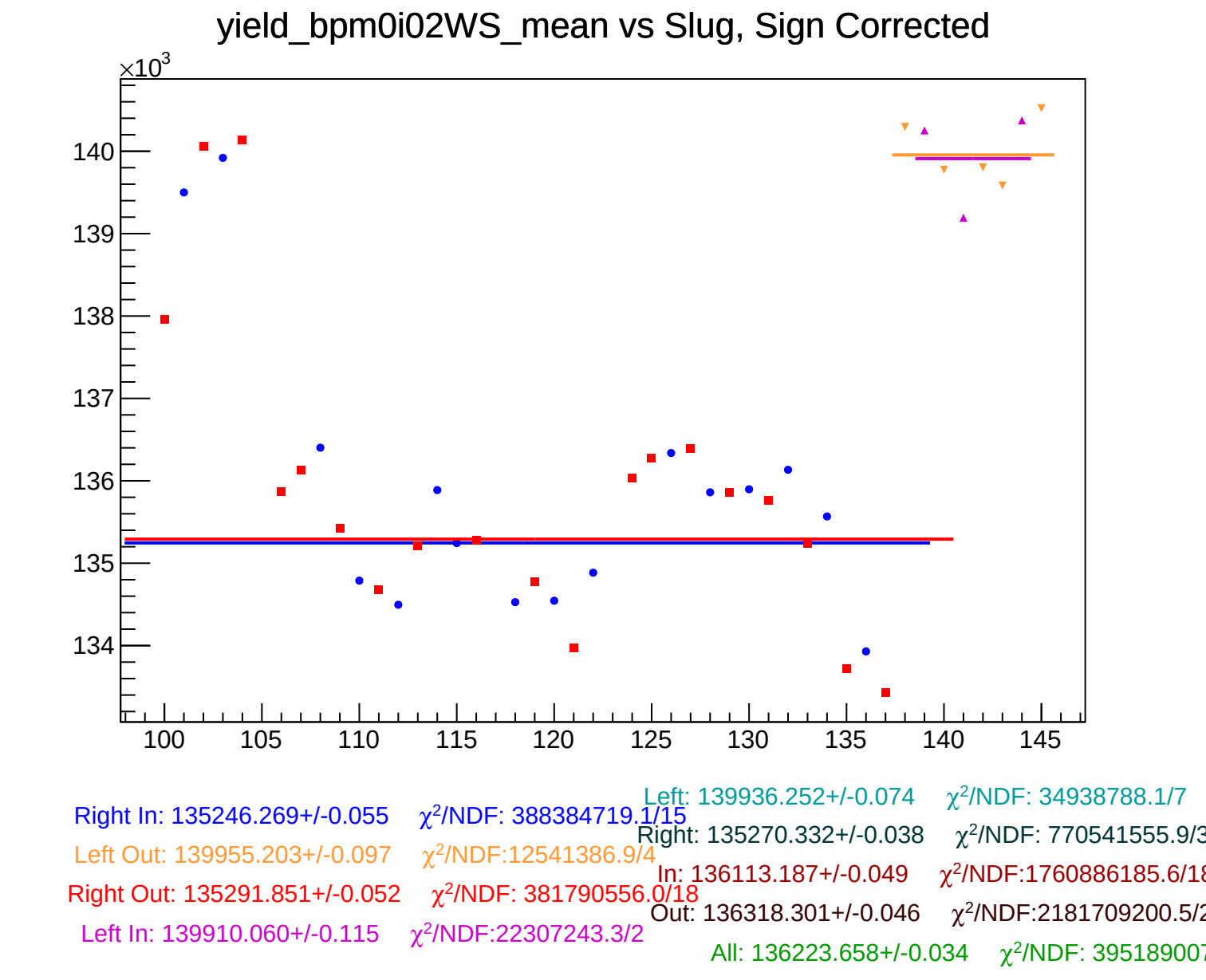
Left: 191.497+/-0.055 $\chi^2$/NDF: 26385.1/7

Right: 279.649+/-0.056 $\chi^2$/NDF: 3185297.4/34

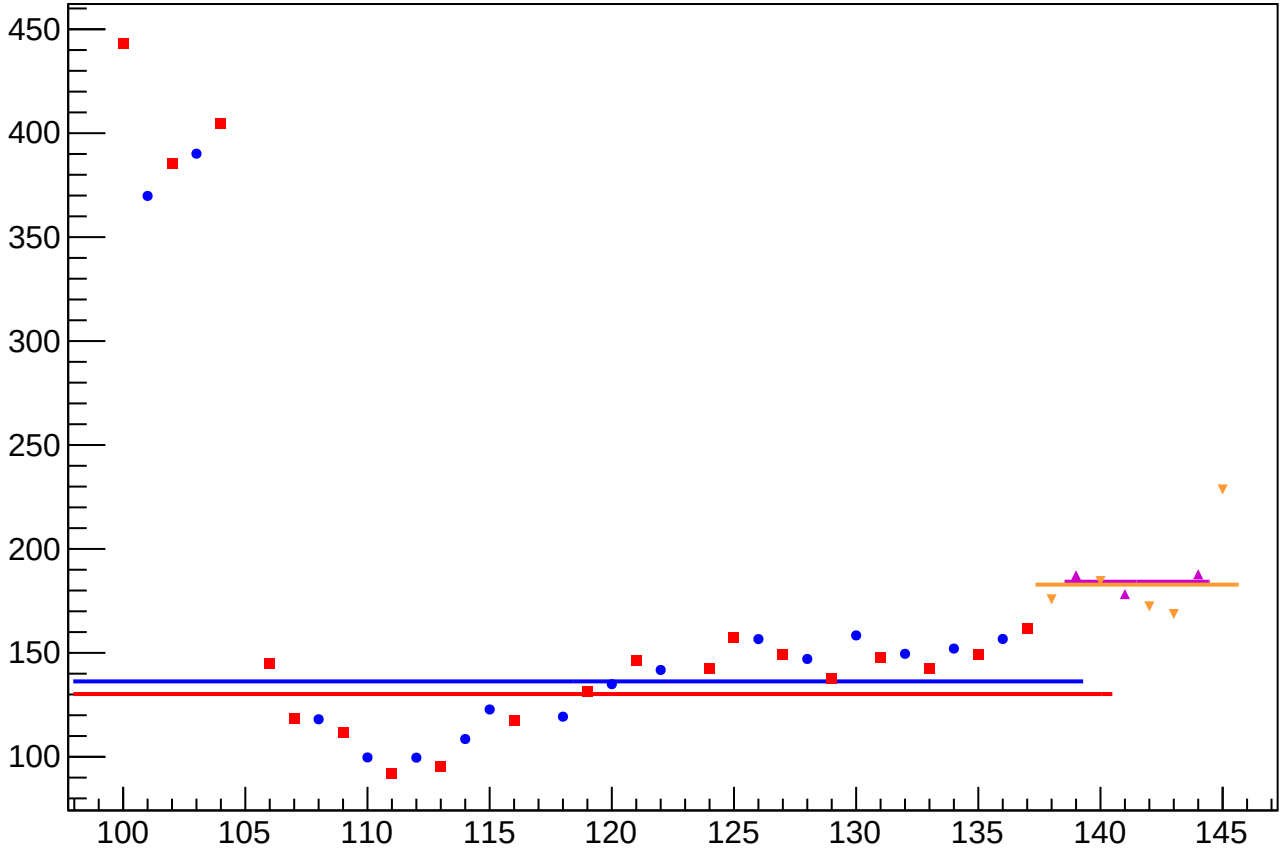
In: 243.596+/-0.059 $\chi^2$/NDF:2219854.9/18

Out: 228.232+/-0.052 $\chi^2$/NDF:2213776.4/23

All: 234.939+/-0.039 $\chi^2$/NDF: 4471284.1/42


yield_bpm0i02WS_mean vs Slug, Sign Corrected
×10^3
140
139
138
137
136
135
134
100
105
110
115
120
125
130
135
140
145
Right In: 135246.269+/-0.055 χ²/NDF: 388384719.1/15
Left Out: 139955.203+/-0.097 χ²/NDF:12541386.9/4
Right Out: 135291.851+/-0.052 χ²/NDF: 381790556.0/18
Left In: 139910.060+/-0.115 χ²/NDF:22307243.3/2
Left: 139936.252+/-0.074 χ²/NDF: 34938788.1/7
Right: 135270.332+/-0.038 χ²/NDF: 770541555.9/3
In: 136113.187+/-0.049 χ²/NDF:1760886185.6/18
Out: 136318.301+/-0.046 χ²/NDF:2181709200.5/2
All: 136223.658+/-0.034 χ²/NDF: 39518900

# yield_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 136.285+/-0.039 $\chi^2$/NDF: 1384057.4/15

Left Out: 182.832+/-0.069 $\chi^2$/NDF:78996.8/4

Right Out: 130.206+/-0.037 $\chi^2$/NDF: 1520840.8/18

Left In: 184.229+/-0.081 $\chi^2$/NDF:3049.1/2

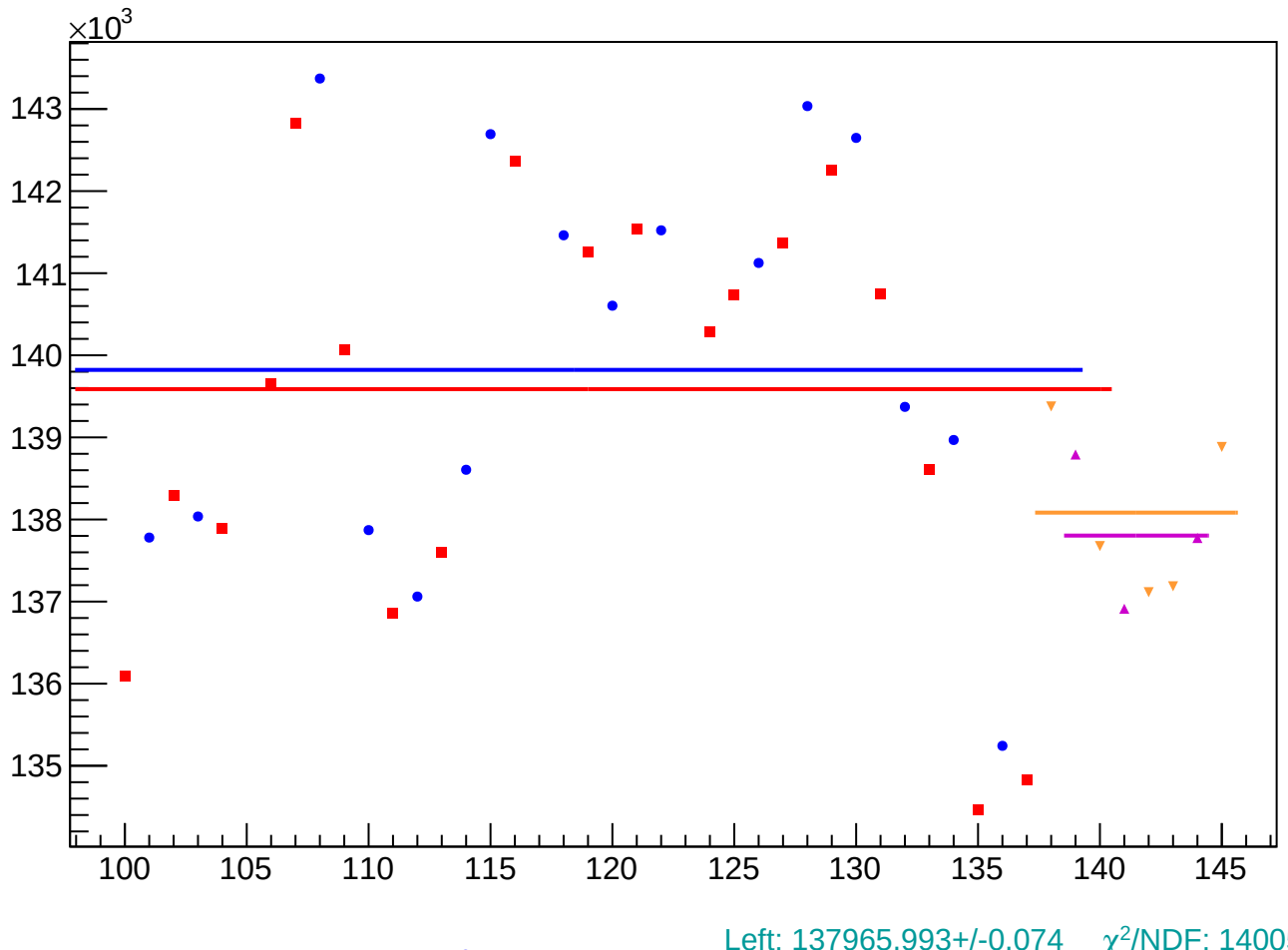
Left: 183.418+/-0.052 $\chi^2$/NDF: 82218.5/7

Right: 133.076+/-0.027 $\chi^2$/NDF: 2917928.2/34

In: 145.197+/-0.035 $\chi^2$/NDF:1672478.9/18

Out: 141.789+/-0.032 $\chi^2$/NDF:2055091.3/23

All: 143.362+/-0.024 $\chi^2$/NDF: 3732700.7/42




Right In: 139822.122+/-0.063 $\chi^2$/NDF: 1663381581.4/15

Left Out: 138083.655+/-0.097 $\chi^2$/NDF:91945292.1/4

Right Out: 139587.876+/-0.060 $\chi^2$/NDF: 1482934186.2/18

Left In: 137803.908+/-0.114 $\chi^2$/NDF:44618915.7/2

Left: 137965.993+/-0.074 $\chi^2$/NDF: 140057533.8/7

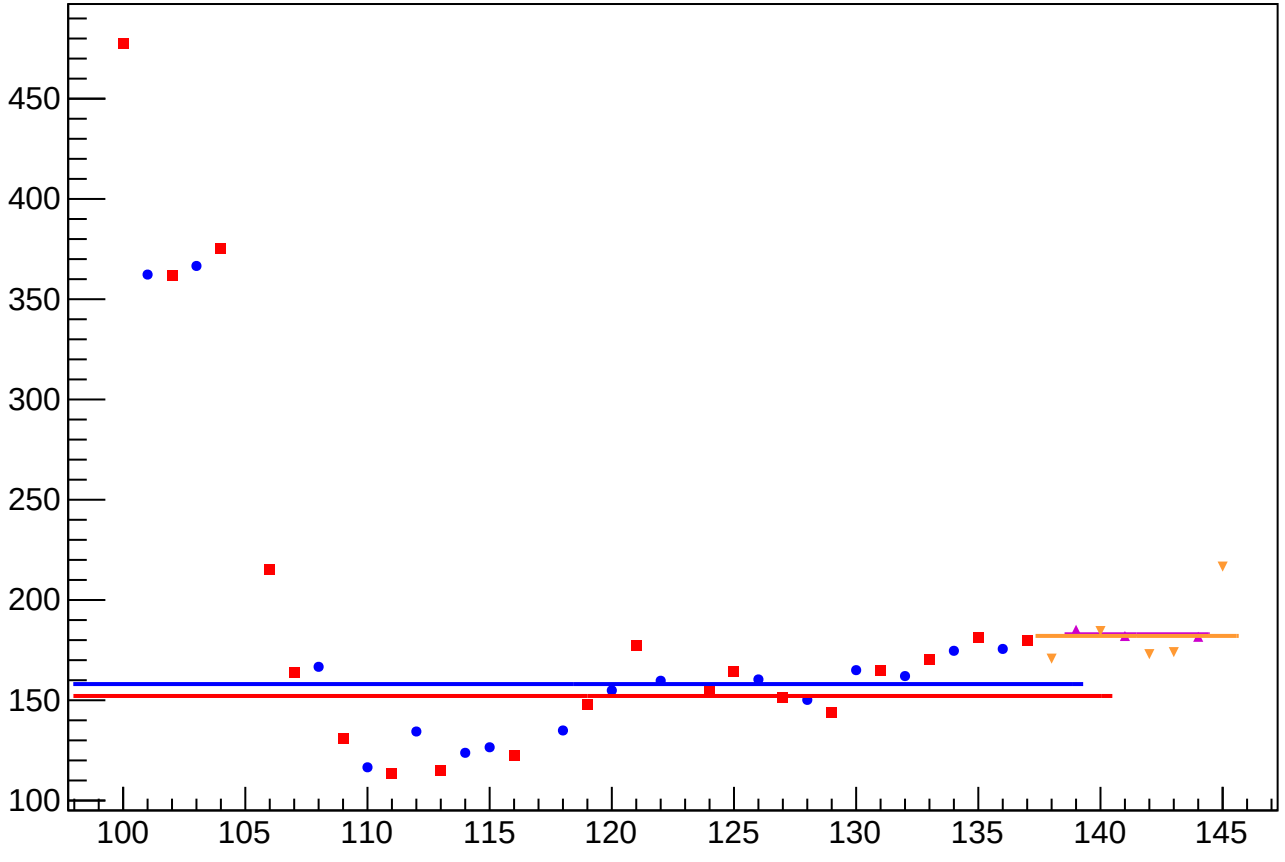
Right: 139699.515+/-0.043 $\chi^2$/NDF: 3153646641.6/

In: 139354.195+/-0.055 $\chi^2$/NDF:1949052490.6/18

Out: 139174.785+/-0.051 $\chi^2$/NDF:1749070168.3/2

All: 139257.730+/-0.037 $\chi^2$/NDF: 37038736

# yield_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 158.079+/-0.044 $\chi^2$/NDF: 1017928.9/15

Left Out: 182.093+/-0.069 $\chi^2$/NDF:52402.3/4

Right Out: 152.139+/-0.042 $\chi^2$/NDF: 1229053.9/18

Left In: 182.905+/-0.081 $\chi^2$/NDF:365.7/2

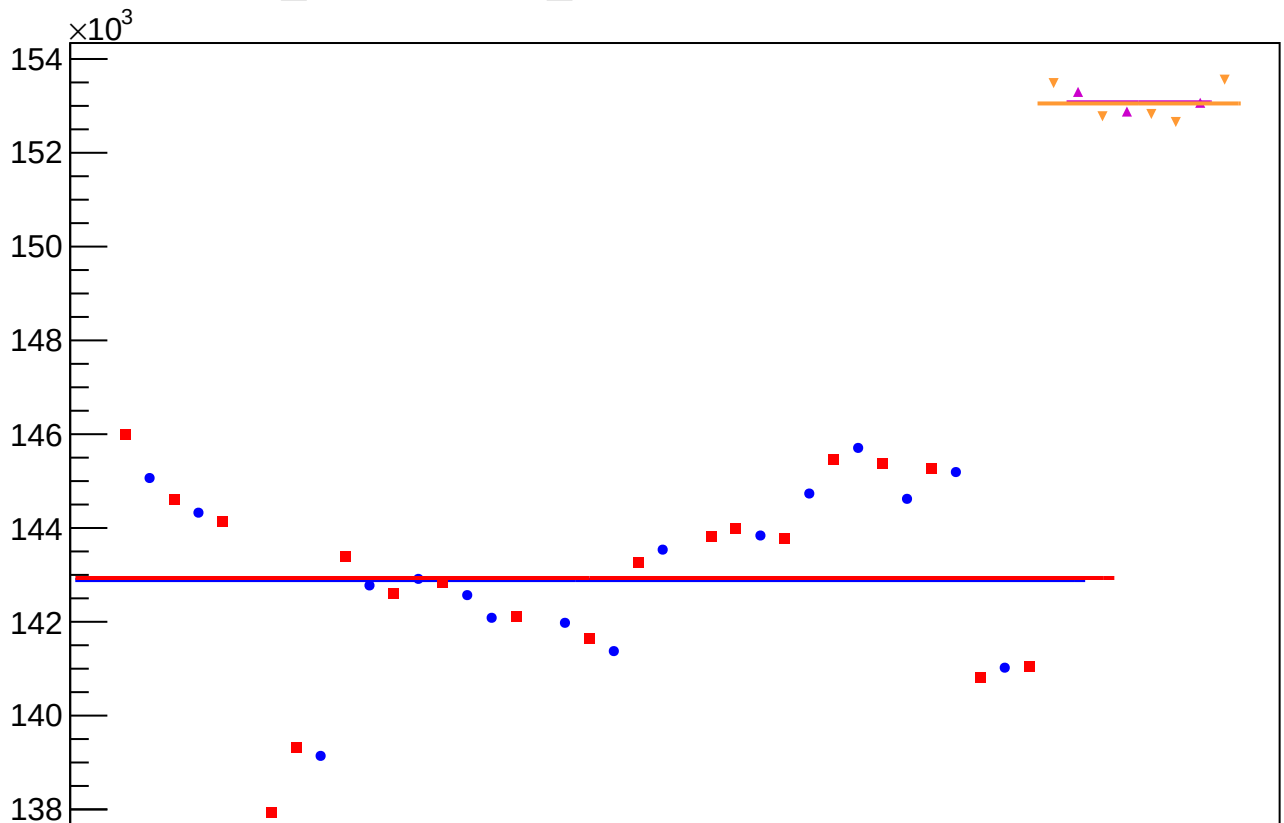
Left: 182.435+/-0.052 $\chi^2$/NDF: 52826.7/7

Right: 154.970+/-0.031 $\chi^2$/NDF: 2256411.8/34

In: 163.835+/-0.039 $\chi^2$/NDF:1091239.4/18

Out: 160.365+/-0.036 $\chi^2$/NDF:1419608.5/23

All: 161.969+/-0.026 $\chi^2$/NDF: 2515150.5/42




Right In: 142889.386+/-0.066 $\chi^2$/NDF: 763303771.6/15

Left Out: 153051.822+/-0.099 $\chi^2$/NDF:15436995.5/4

Right Out: 142933.890+/-0.062 $\chi^2$/NDF: 787386856.4/18

Left In: 153076.818+/-0.115 $\chi^2$/NDF:2067146.7/2

Left: 153062.393+/-0.075 $\chi^2$/NDF: 17531228.8/7

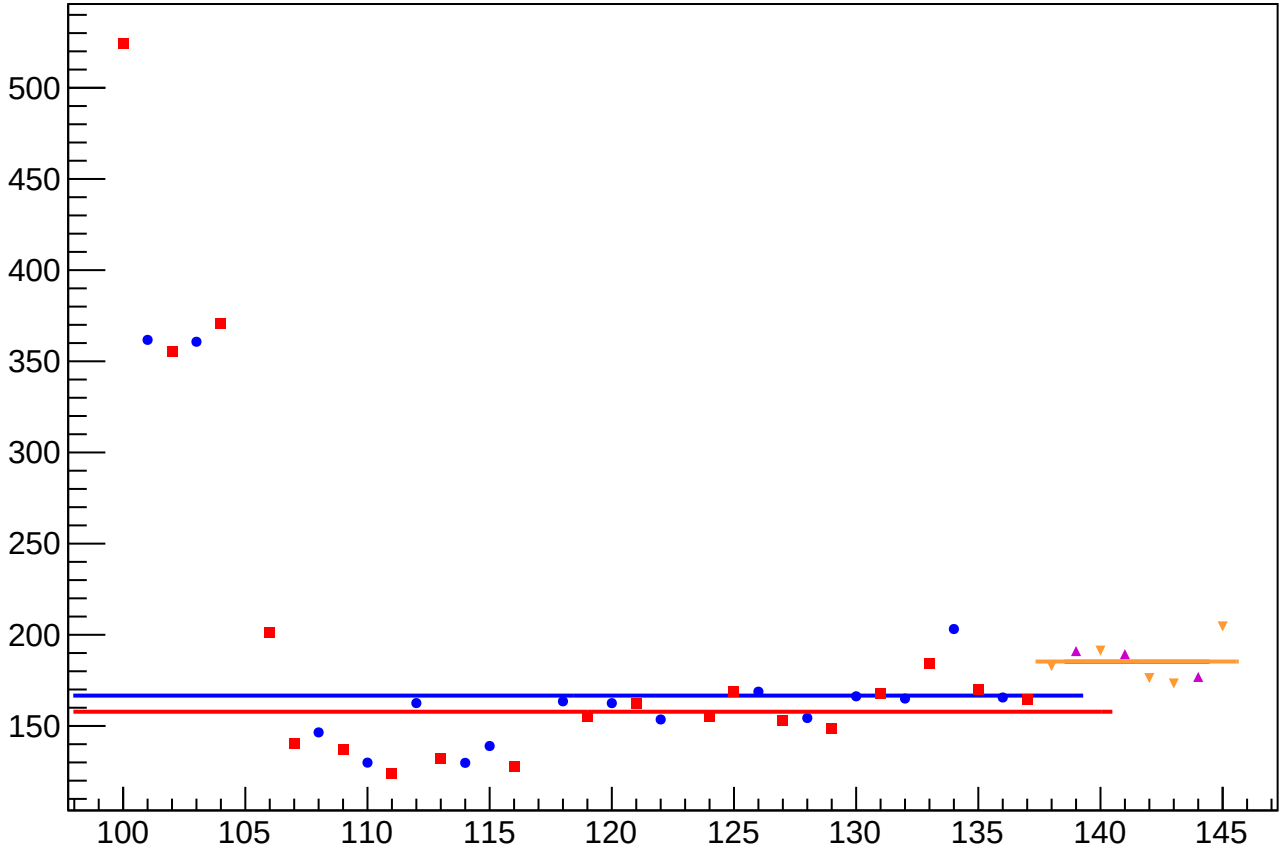
Right: 142913.088+/-0.045 $\chi^2$/NDF: 1550935114.7/

In: 145383.081+/-0.057 $\chi^2$/NDF:6653519580.8/18

Out: 145763.200+/-0.052 $\chi^2$/NDF:8362498231.3/2

All: 145589.984+/-0.039 $\chi^2$/NDF: 15040154

# yield_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 166.656+/-0.046 $\chi^2$/NDF: 863574.7/15

Left Out: 185.341+/-0.070 $\chi^2$/NDF:25593.3/4

Right Out: 157.809+/-0.044 $\chi^2$/NDF: 1022332.1/18

Left In: 185.237+/-0.082 $\chi^2$/NDF:6301.6/2

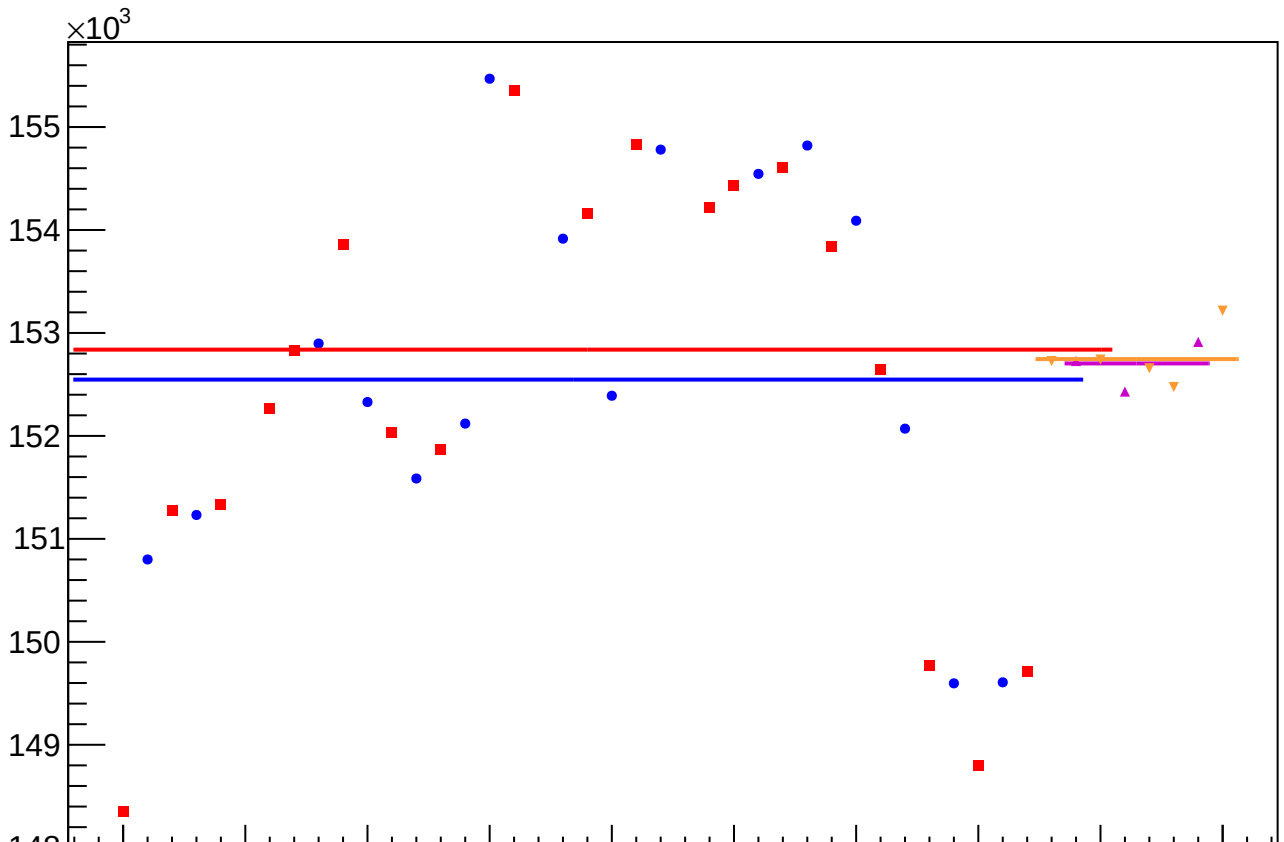
Left: 185.297+/-0.053 $\chi^2$/NDF: 31895.8/7

Right: 161.945+/-0.032 $\chi^2$/NDF: 1905231.4/34

In: 171.205+/-0.040 $\chi^2$/NDF:909051.3/18

Out: 165.508+/-0.037 $\chi^2$/NDF:1159872.0/23

All: 168.104+/-0.027 $\chi^2$/NDF: 2079766.5/42




Right In: 152546.899+/-0.073 $\chi^2$/NDF: 654540559.6/15

Left Out: 152746.108+/-0.097 $\chi^2$/NDF:6297486.0/4

Right Out: 152837.888+/-0.067 $\chi^2$/NDF: 736907066.8/18

Left In: 152703.879+/-0.115 $\chi^2$/NDF:3014879.9/2

Left: 152728.631+/-0.074 $\chi^2$/NDF: 9390738.2/7

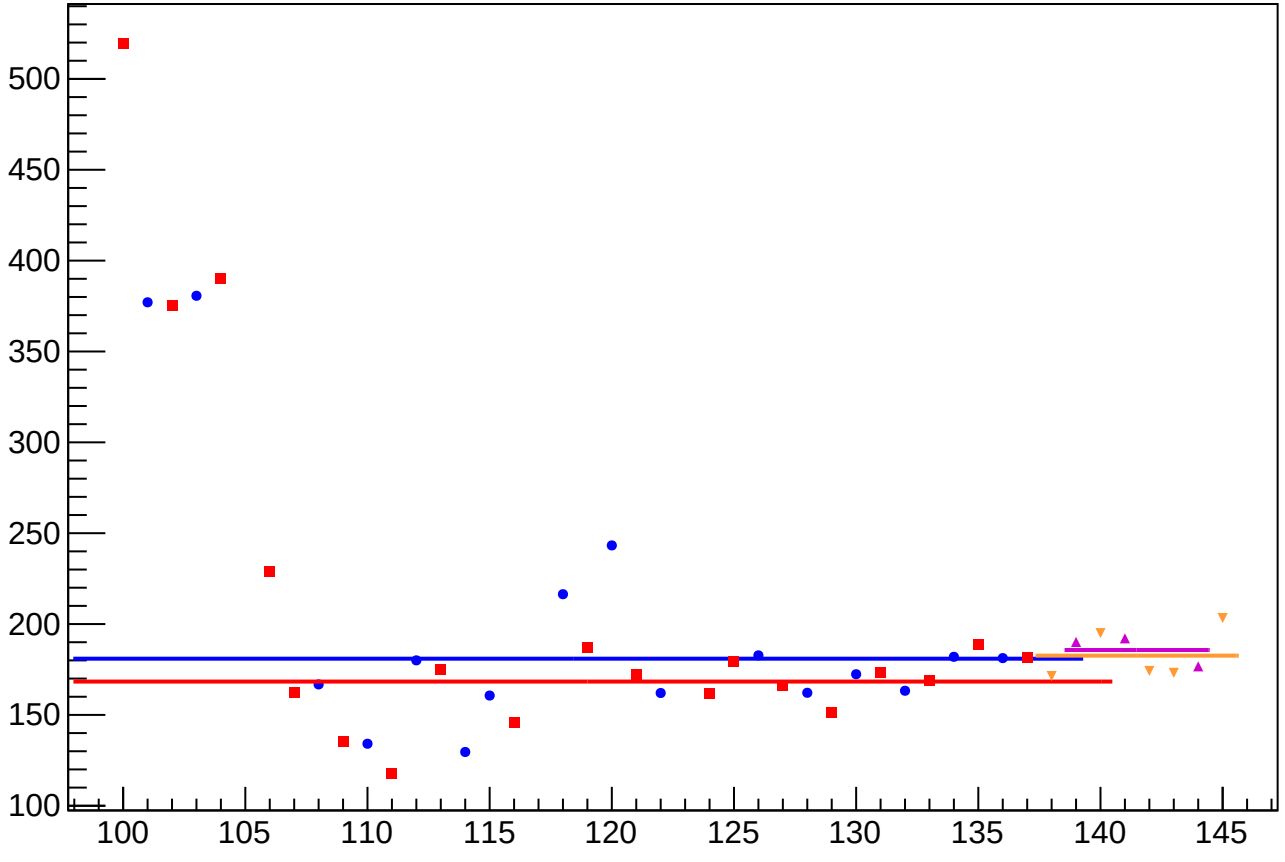
Right: 152704.814+/-0.049 $\chi^2$/NDF: 1400162101.0/

In: 152591.377+/-0.061 $\chi^2$/NDF:658879574.8/18

Out: 152808.465+/-0.055 $\chi^2$/NDF:743812276.7/23

All: 152712.055+/-0.041 $\chi^2$/NDF: 140962436

# yield_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 180.938+/-0.051 $\chi^2$/NDF: 907758.2/15

Left Out: 182.622+/-0.069 $\chi^2$/NDF:35993.5/4

Right Out: 168.349+/-0.047 $\chi^2$/NDF: 1089090.2/18

Left In: 185.715+/-0.082 $\chi^2$/NDF:7433.7/2

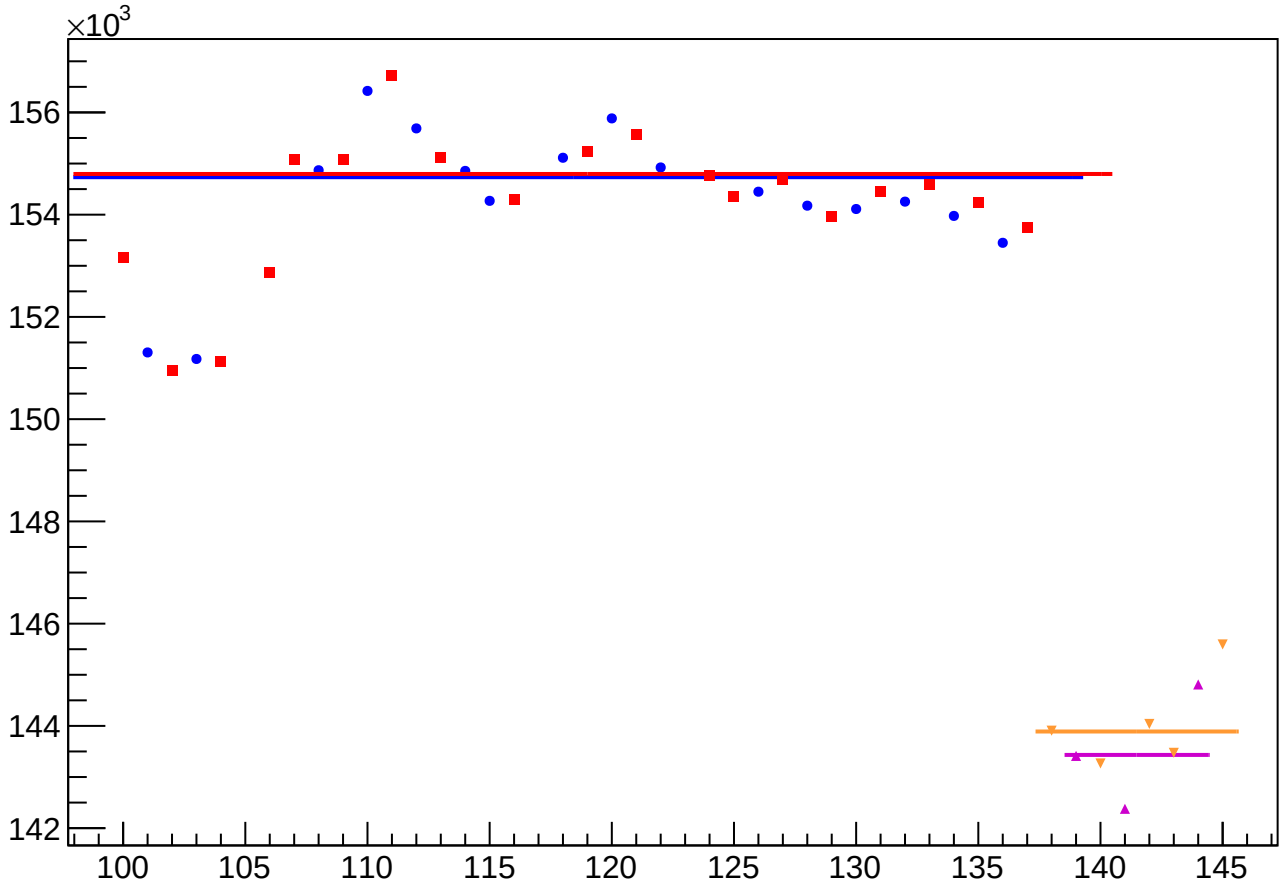
Left: 183.902+/-0.053 $\chi^2$/NDF: 44267.9/7

Right: 174.106+/-0.035 $\chi^2$/NDF: 2029471.3/34

In: 182.292+/-0.043 $\chi^2$/NDF:917643.4/18

Out: 172.925+/-0.039 $\chi^2$/NDF:1154478.0/23

All: 177.085+/-0.029 $\chi^2$/NDF: 2097934.8/42




Right In: 154733.155+/-0.065 $\chi^2$/NDF: 274462319.1/15

Left Out: 143890.461+/-0.095 $\chi^2$/NDF:61855265.9/4

Right Out: 154795.893+/-0.061 $\chi^2$/NDF: 304125082.4/18

Left In: 143432.346+/-0.109 $\chi^2$/NDF:84797060.9/2

Left: 143693.337+/-0.072 $\chi^2$/NDF: 156671994.9/7

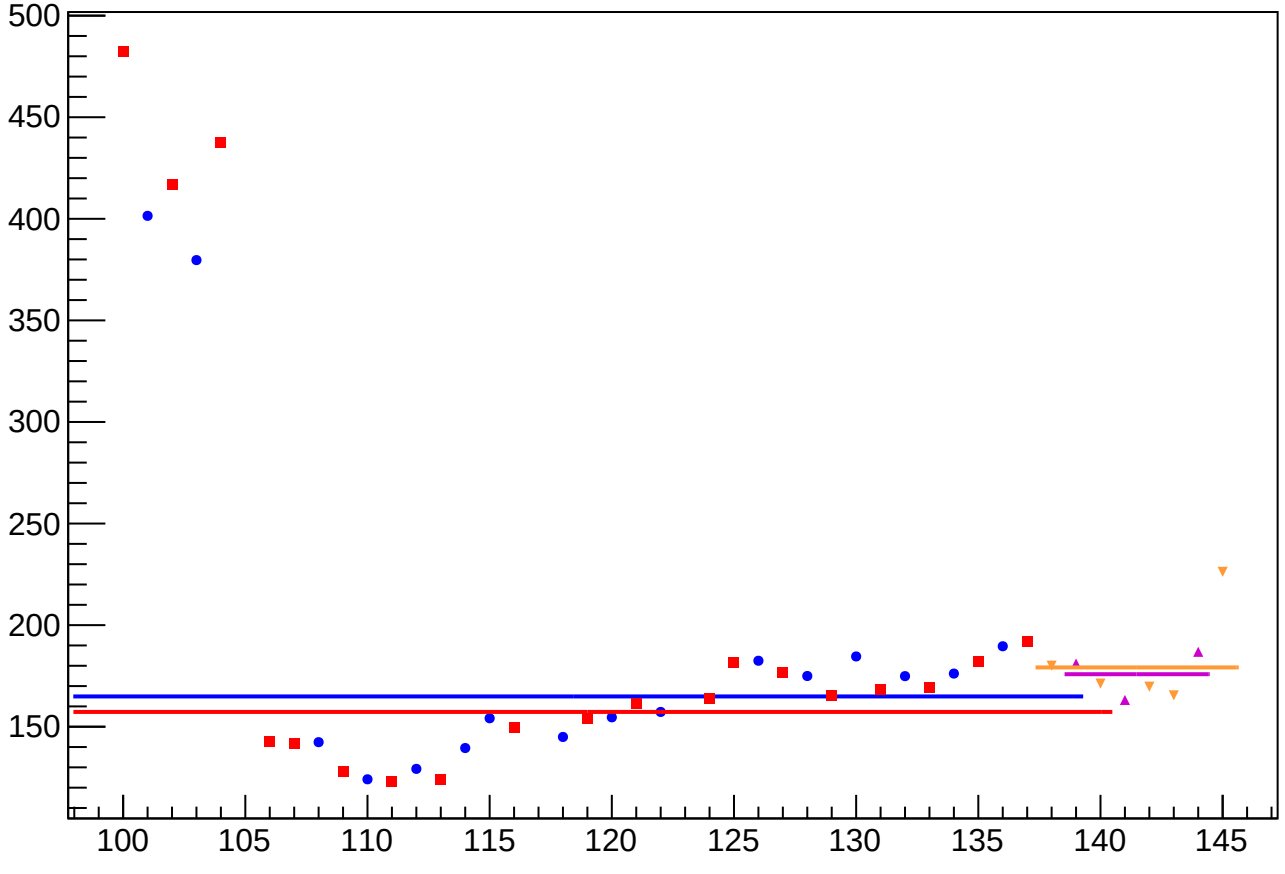
Right: 154766.574+/-0.045 $\chi^2$/NDF: 579080682.1/3

In: 151765.097+/-0.056 $\chi^2$/NDF:8250599220.9/18

Out: 151604.372+/-0.051 $\chi^2$/NDF:9699734195.1/2

All: 151677.823+/-0.038 $\chi^2$/NDF: 17954809

# yield_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 164.906+/-0.046 $\chi^2$/NDF: 1072730.7/15

Left Out: 179.185+/-0.067 $\chi^2$/NDF:86959.9/4

Right Out: 157.283+/-0.043 $\chi^2$/NDF: 1254831.2/18

Left In: 175.845+/-0.077 $\chi^2$/NDF:18126.4/2

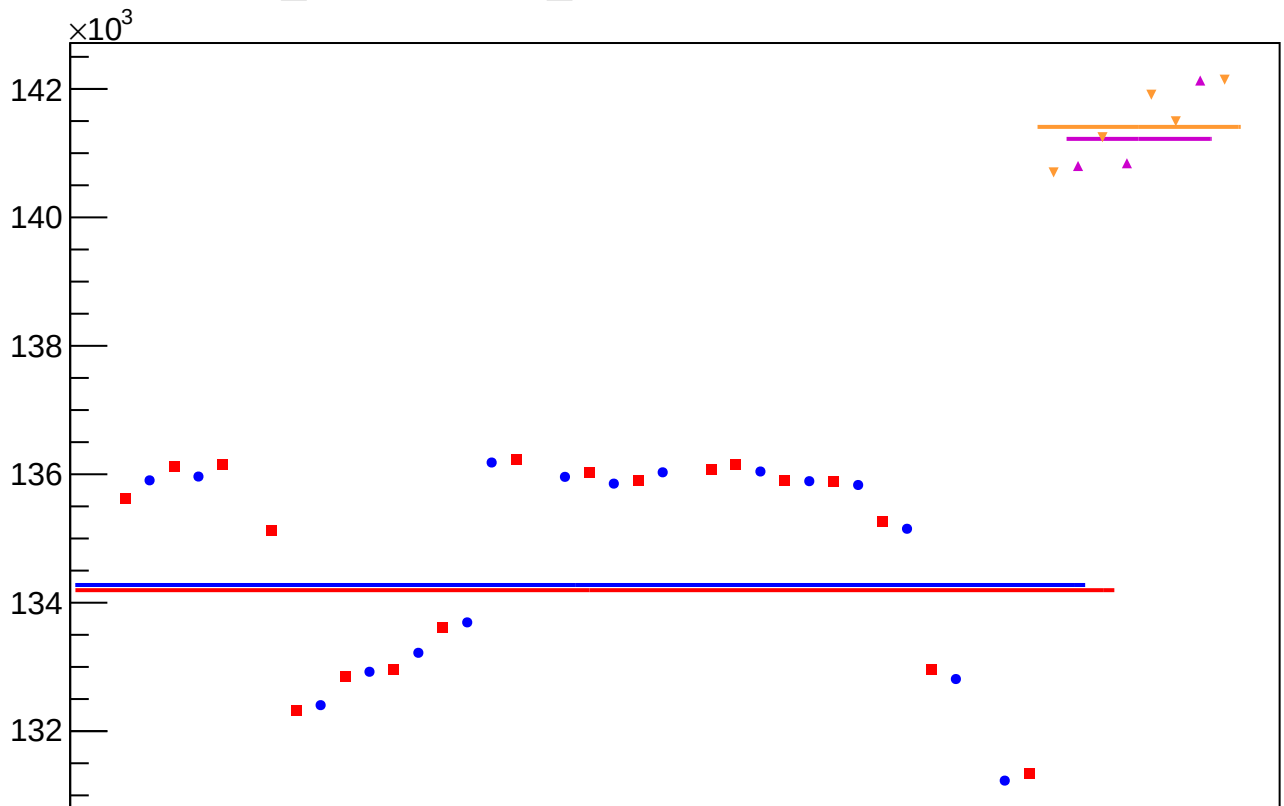
Left: 177.748+/-0.051 $\chi^2$/NDF: 106151.5/7

Right: 160.846+/-0.032 $\chi^2$/NDF: 2342128.6/34

In: 167.779+/-0.040 $\chi^2$/NDF:1105644.1/18

Out: 163.693+/-0.036 $\chi^2$/NDF:1417087.0/23

All: 165.560+/-0.027 $\chi^2$/NDF: 2528518.0/42




Right In: 134276.096+/-0.051 $\chi^2$/NDF: 1142867100.2/15

Left Out: 141409.289+/-0.093 $\chi^2$/NDF:26319047.8/4

Right Out: 134195.257+/-0.048 $\chi^2$/NDF: 1205537499.7/18

Left In: 141222.620+/-0.107 $\chi^2$/NDF:31911465.7/2

Left: 141328.884+/-0.070 $\chi^2$/NDF: 59978775.5/7

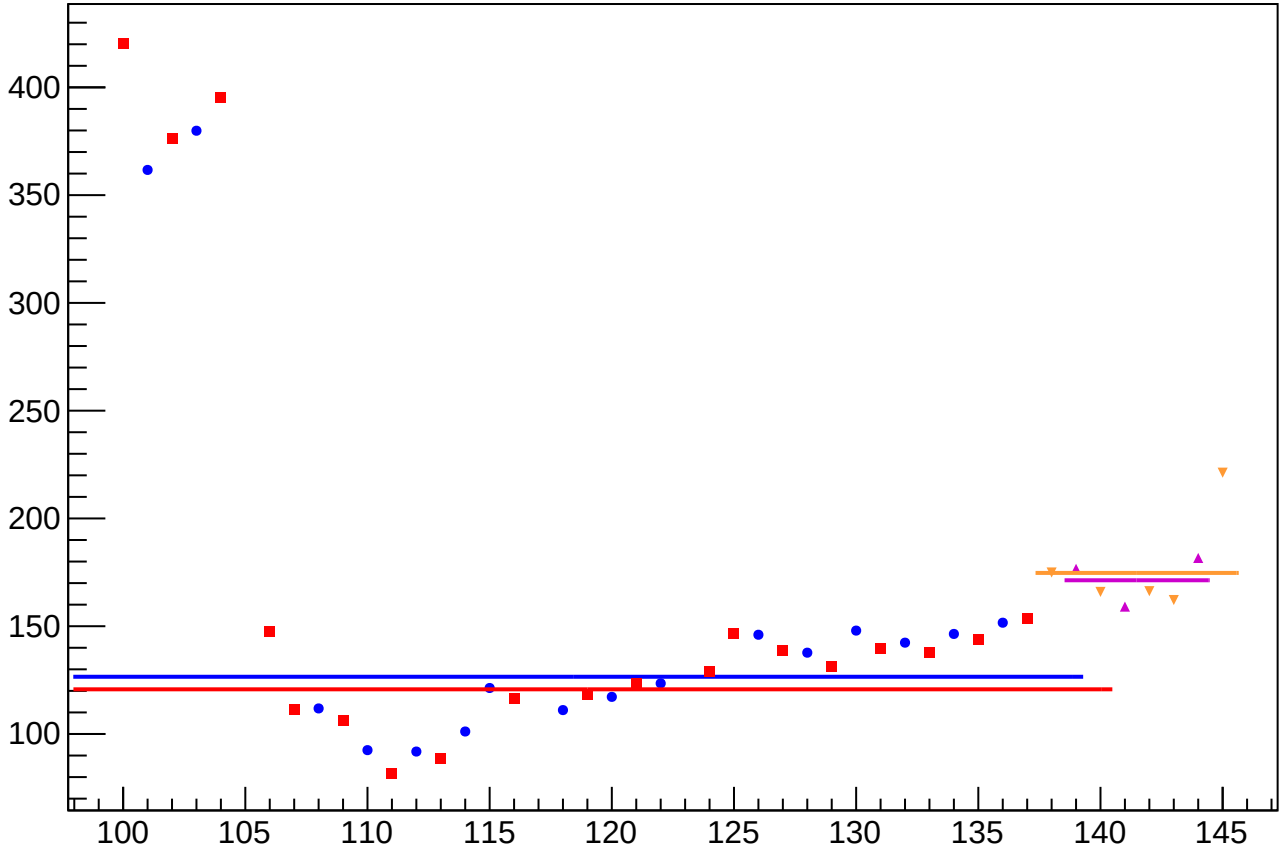
Right: 134233.345+/-0.035 $\chi^2$/NDF: 2349742421.8/

In: 135564.337+/-0.046 $\chi^2$/NDF:4638990152.0/18

Out: 135720.363+/-0.043 $\chi^2$/NDF:6012230563.2/2

All: 135648.107+/-0.031 $\chi^2$/NDF: 10657432

# yield_bpm1i04WS_rms vs Slug, Sign Corrected




Right In: 126.551+/-0.036 $\chi^2$/NDF: 1477429.4/15

Left Out: 174.727+/-0.066 $\chi^2$/NDF:87501.5/4

Right Out: 120.723+/-0.034 $\chi^2$/NDF: 1632726.2/18

Left In: 171.317+/-0.075 $\chi^2$/NDF:17572.1/2

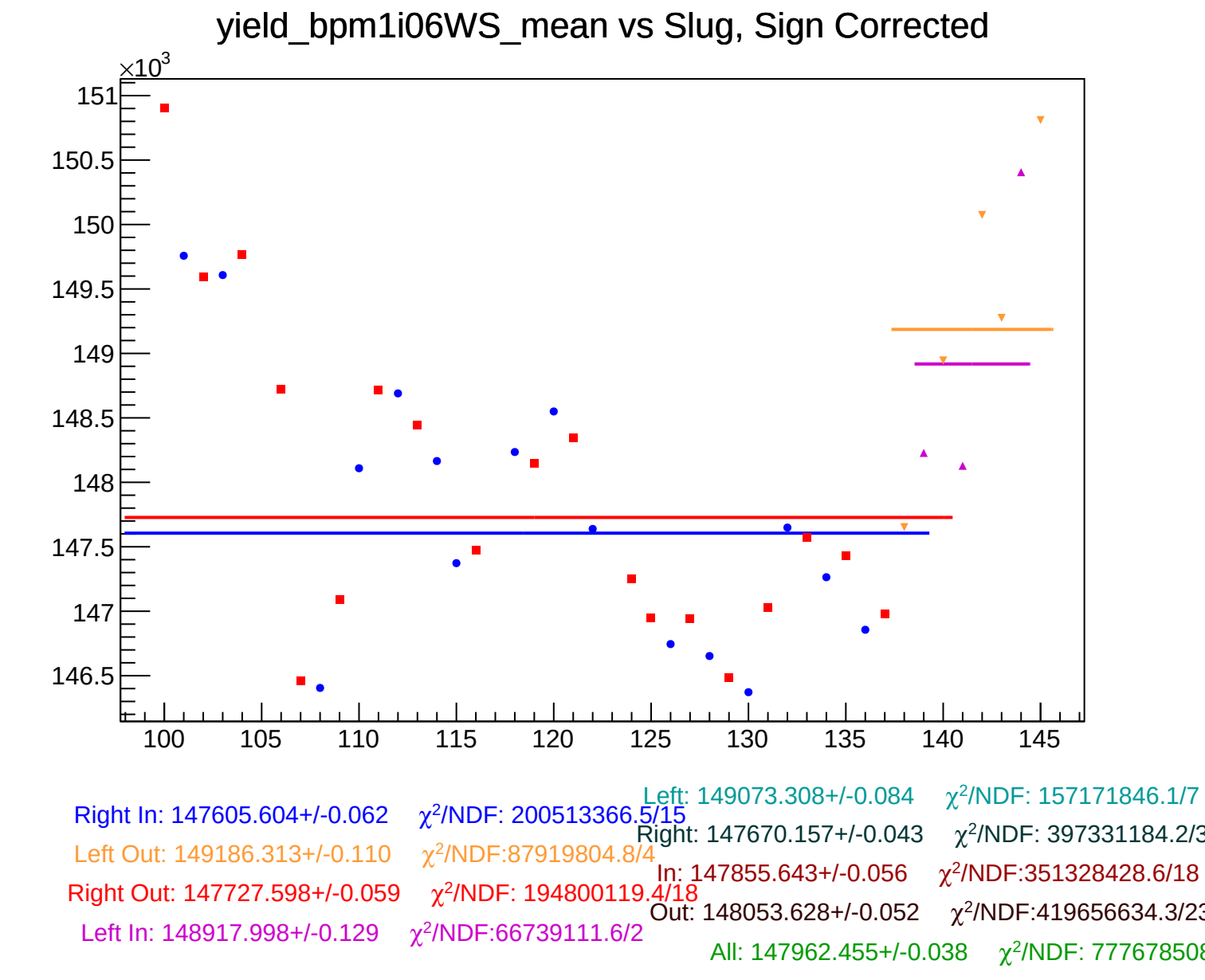
Left: 173.258+/-0.049 $\chi^2$/NDF: 106240.2/7

Right: 123.469+/-0.025 $\chi^2$/NDF: 3124061.5/34

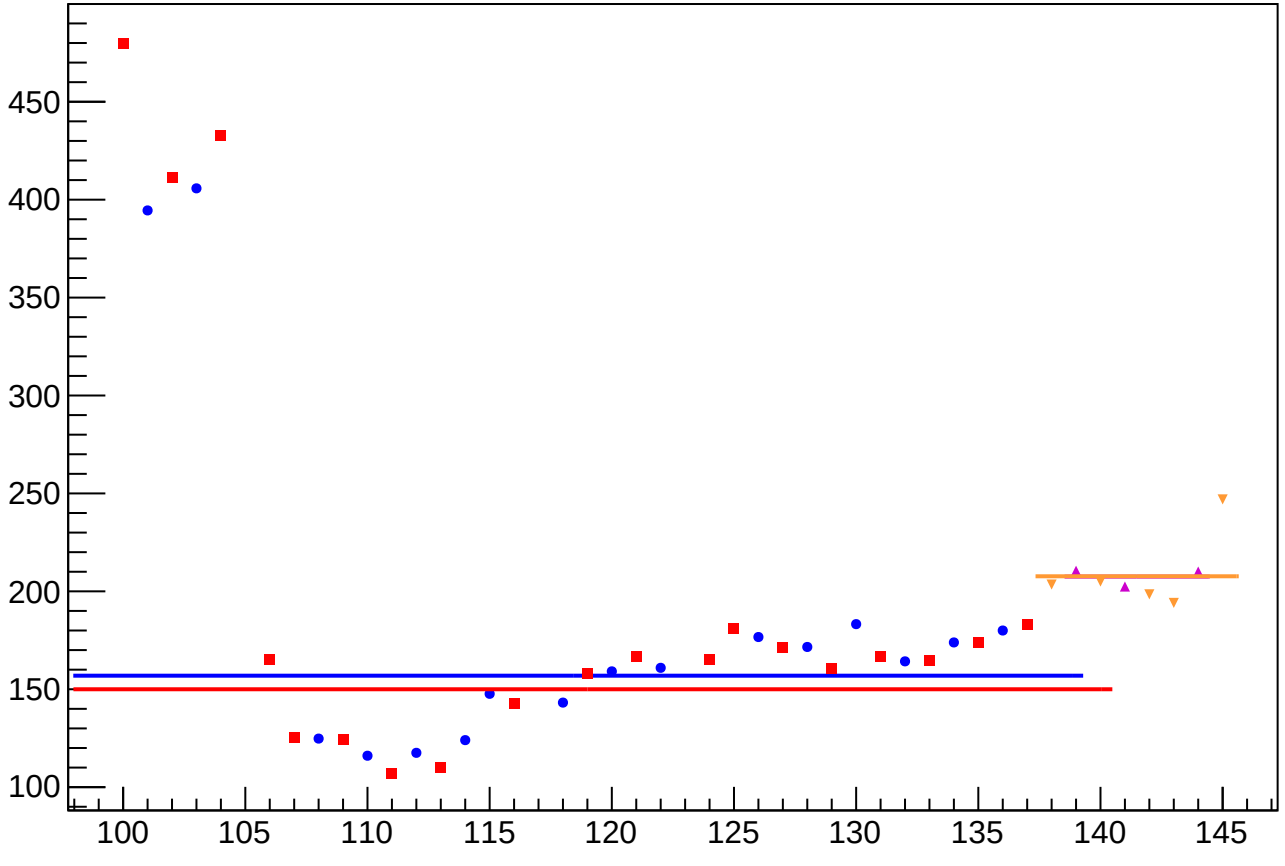
In: 134.853+/-0.032 $\chi^2$/NDF:1782745.0/18

Out: 132.140+/-0.030 $\chi^2$/NDF:2256007.9/23

All: 133.396+/-0.022 $\chi^2$/NDF: 4042508.8/42


yield_bpm1i06WS_mean vs Slug, Sign Corrected
×10^3
151
150.5
150
149.5
149
148.5
148
147.5
147
146.5
100
105
110
115
120
125
130
135
140
145
Right In: 147605.604+/-0.062 χ²/NDF: 200513366.5/15
Left Out: 149186.313+/-0.110 χ²/NDF:87919804.8/4
Right Out: 147727.598+/-0.059 χ²/NDF: 194800119.4/18
Left In: 148917.998+/-0.129 χ²/NDF:66739111.6/2
Left: 149073.308+/-0.084 χ²/NDF: 157171846.1/7
Right: 147670.157+/-0.043 χ²/NDF: 397331184.2/3
In: 147855.643+/-0.056 χ²/NDF:351328428.6/18
Out: 148053.628+/-0.052 χ²/NDF:419656634.3/23
All: 147962.455+/-0.038 χ²/NDF: 77767850

# yield_bpm1i06WS_rms vs Slug, Sign Corrected




Right In: 156.927+/-0.044 $\chi^2$/NDF: 1265768.6/15

Left Out: 207.687+/-0.078 $\chi^2$/NDF:51184.5/4

Right Out: 149.994+/-0.042 $\chi^2$/NDF: 1453928.8/18

Left In: 207.530+/-0.091 $\chi^2$/NDF:1706.6/2

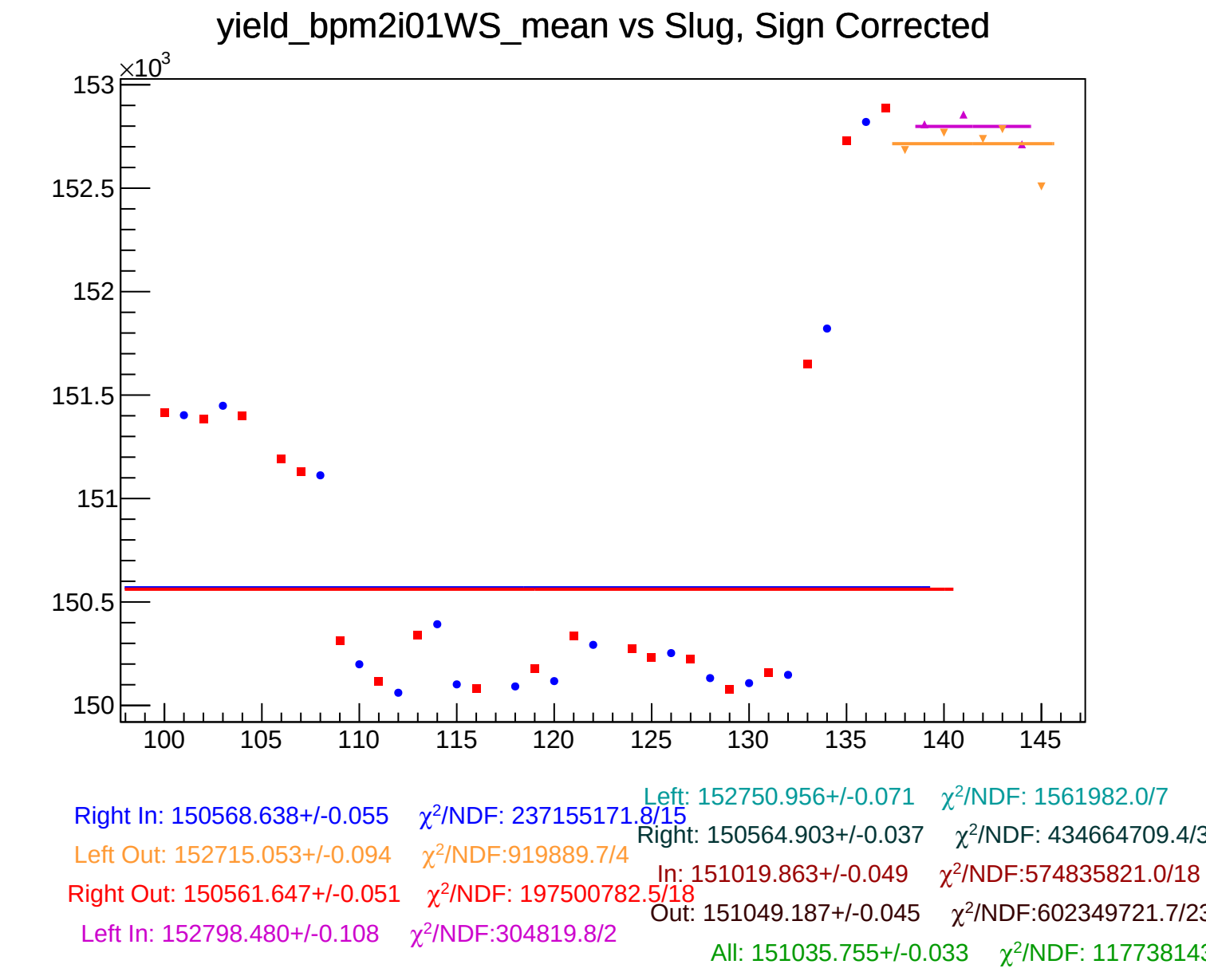
Left: 207.621+/-0.059 $\chi^2$/NDF: 52892.8/7

Right: 153.258+/-0.030 $\chi^2$/NDF: 2732730.8/34

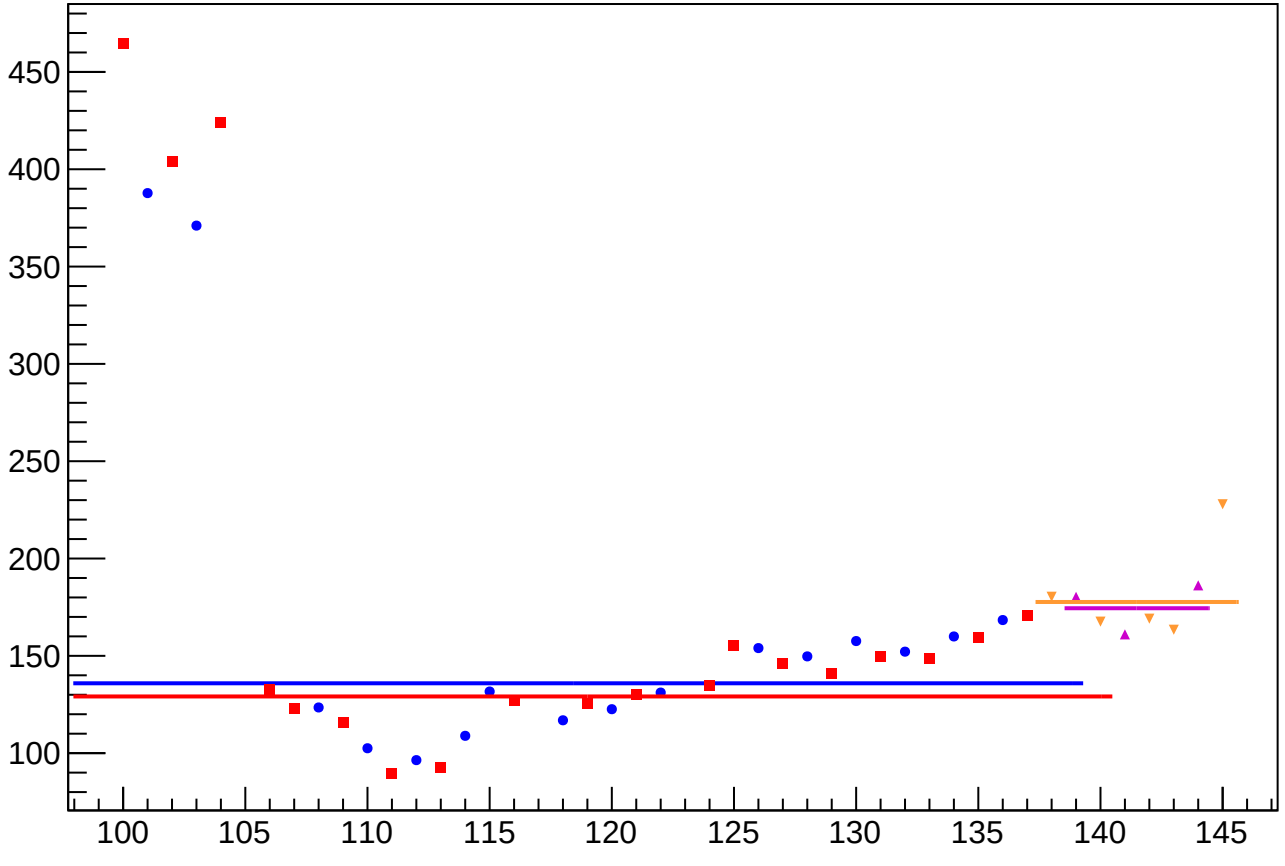
In: 166.568+/-0.040 $\chi^2$/NDF:1517470.4/18

Out: 162.889+/-0.037 $\chi^2$/NDF:1933515.1/23

All: 164.583+/-0.027 $\chi^2$/NDF: 3455609.1/42


yield_bpm2i01WS_mean vs Slug, Sign Corrected
×10^3
153
152.5
152
151.5
151
150.5
150
100
105
110
115
120
125
130
135
140
145
Right In: 150568.638+/-0.055 χ²/NDF: 237155171.8/15
Left Out: 152715.053+/-0.094 χ²/NDF:919889.7/4
Right Out: 150561.647+/-0.051 χ²/NDF: 197500782.5/18
Left In: 152798.480+/-0.108 χ²/NDF:304819.8/2
Left: 152750.956+/-0.071 χ²/NDF: 1561982.0/7
Right: 150564.903+/-0.037 χ²/NDF: 434664709.4/3
In: 151019.863+/-0.049 χ²/NDF:574835821.0/18
Out: 151049.187+/-0.045 χ²/NDF:602349721.7/23
All: 151035.755+/-0.033 χ²/NDF: 11773814

# yield_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 135.896+/-0.039 $\chi^2$/NDF: 1416332.3/15

Left Out: 177.674+/-0.067 $\chi^2$/NDF:98820.2/4

Right Out: 129.130+/-0.036 $\chi^2$/NDF: 1614311.0/18

Left In: 174.455+/-0.077 $\chi^2$/NDF:20997.1/2

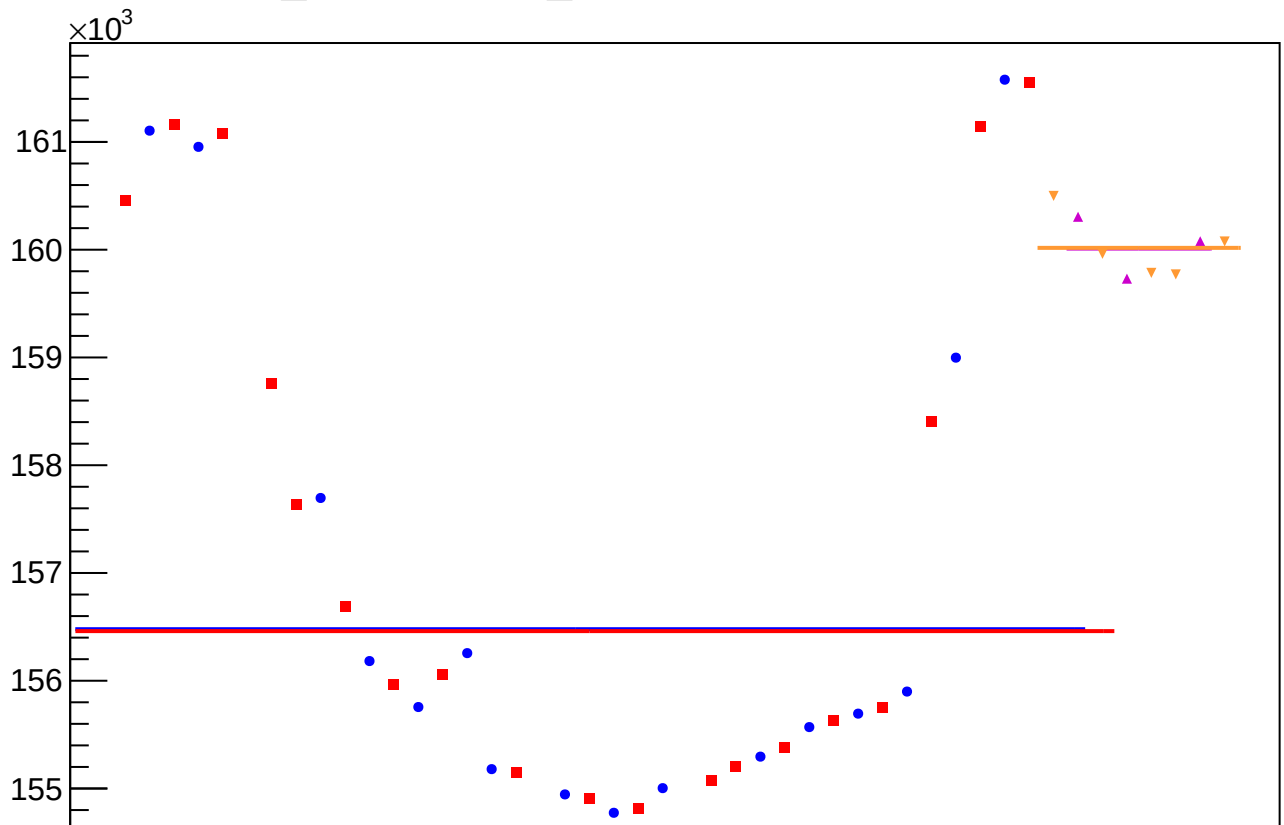
Left: 176.289+/-0.050 $\chi^2$/NDF: 120822.0/7

Right: 132.281+/-0.026 $\chi^2$/NDF: 3047045.4/34

In: 143.699+/-0.034 $\chi^2$/NDF:1639089.1/18

Out: 140.121+/-0.032 $\chi^2$/NDF:2123667.1/23

All: 141.760+/-0.023 $\chi^2$/NDF: 3768588.3/42




Right In: 156478.318+/-0.057 $\chi^2$/NDF: 1289449253.3/15

Left Out: 160017.075+/-0.098 $\chi^2$/NDF:7665788.7/4

Right Out: 156460.550+/-0.053 $\chi^2$/NDF: 1100531658.8/18

Left In: 160010.508+/-0.112 $\chi^2$/NDF:4674140.3/2

Left: 160014.235+/-0.074 $\chi^2$/NDF: 12341879.5/7

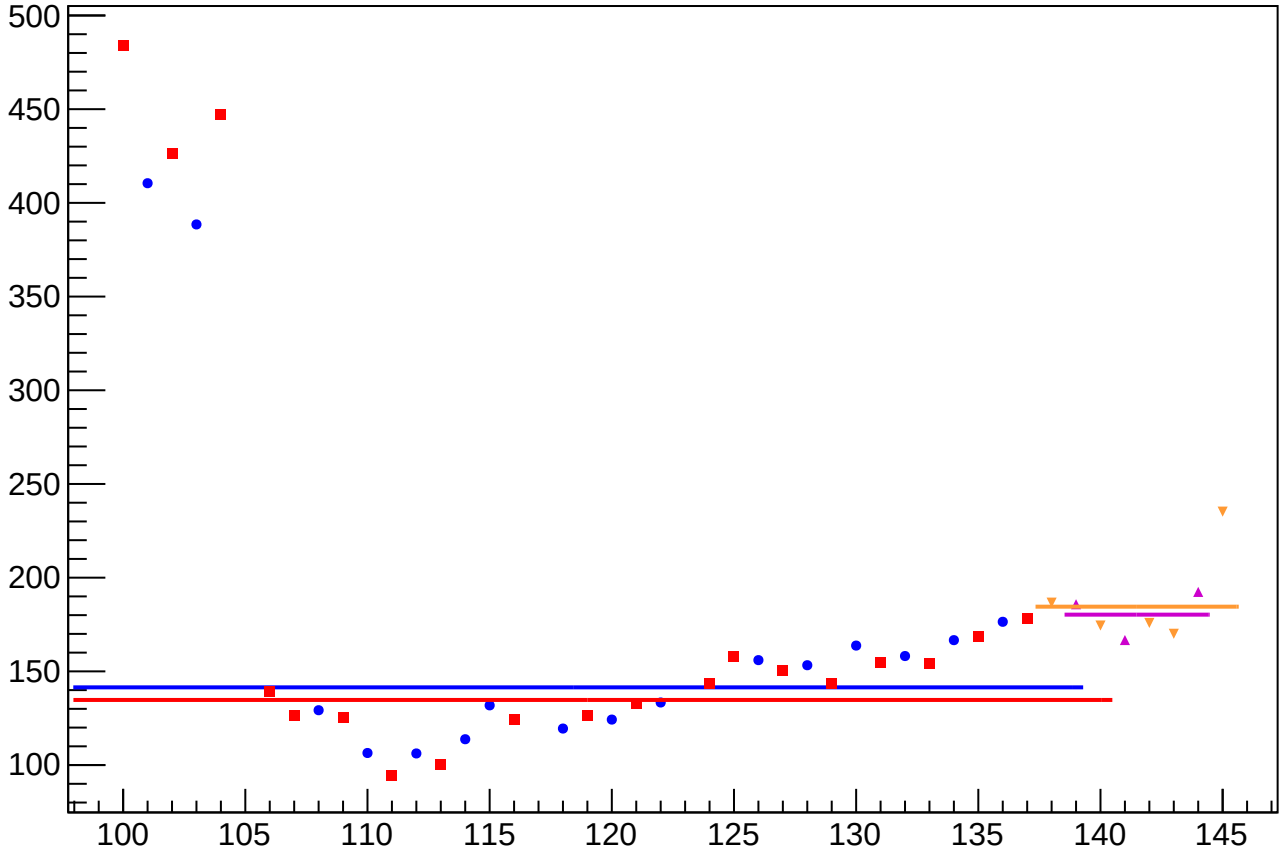
Right: 156468.838+/-0.039 $\chi^2$/NDF: 2390033091.6/

In: 157200.993+/-0.051 $\chi^2$/NDF:2084940600.7/18

Out: 157271.046+/-0.047 $\chi^2$/NDF:2129507599.2/2

All: 157238.885+/-0.034 $\chi^2$/NDF: 42154820

# yield_bpm2i02WS_rms vs Slug, Sign Corrected




Right In: 141.470+/-0.040 $\chi^2$/NDF: 1391933.2/15

Left Out: 184.524+/-0.069 $\chi^2$/NDF:94184.4/4

Right Out: 134.746+/-0.038 $\chi^2$/NDF: 1579031.5/18

Left In: 180.264+/-0.079 $\chi^2$/NDF:20107.7/2

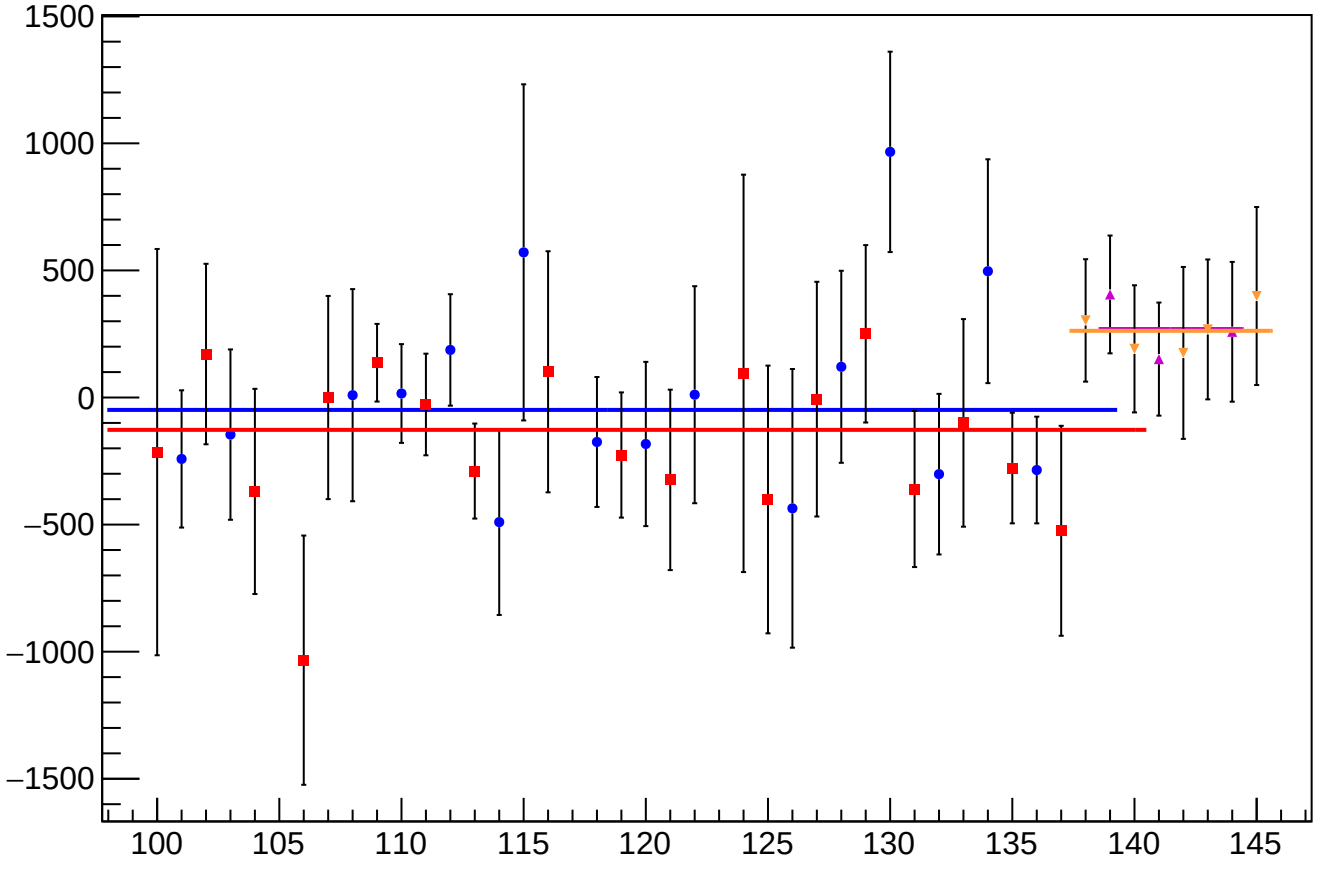
Left: 182.682+/-0.052 $\chi^2$/NDF: 115933.4/7

Right: 137.883+/-0.027 $\chi^2$/NDF: 2985912.1/34

In: 149.407+/-0.036 $\chi^2$/NDF:1602828.5/18

Out: 146.090+/-0.033 $\chi^2$/NDF:2073360.2/23

All: 147.613+/-0.024 $\chi^2$/NDF: 3680826.2/42




Right In: -48.749+/-76.592 $\chi^2$/NDF: 15.4/15

Left Out: 262.404+/-125.670 $\chi^2$/NDF:0.3/4

Right Out: -127.249+/-68.506 $\chi^2$/NDF: 12.9/18

Left In: 269.424+/-138.606 $\chi^2$/NDF:0.6/2

Left: 265.571+/-93.100 $\chi^2$/NDF: 1.0/7

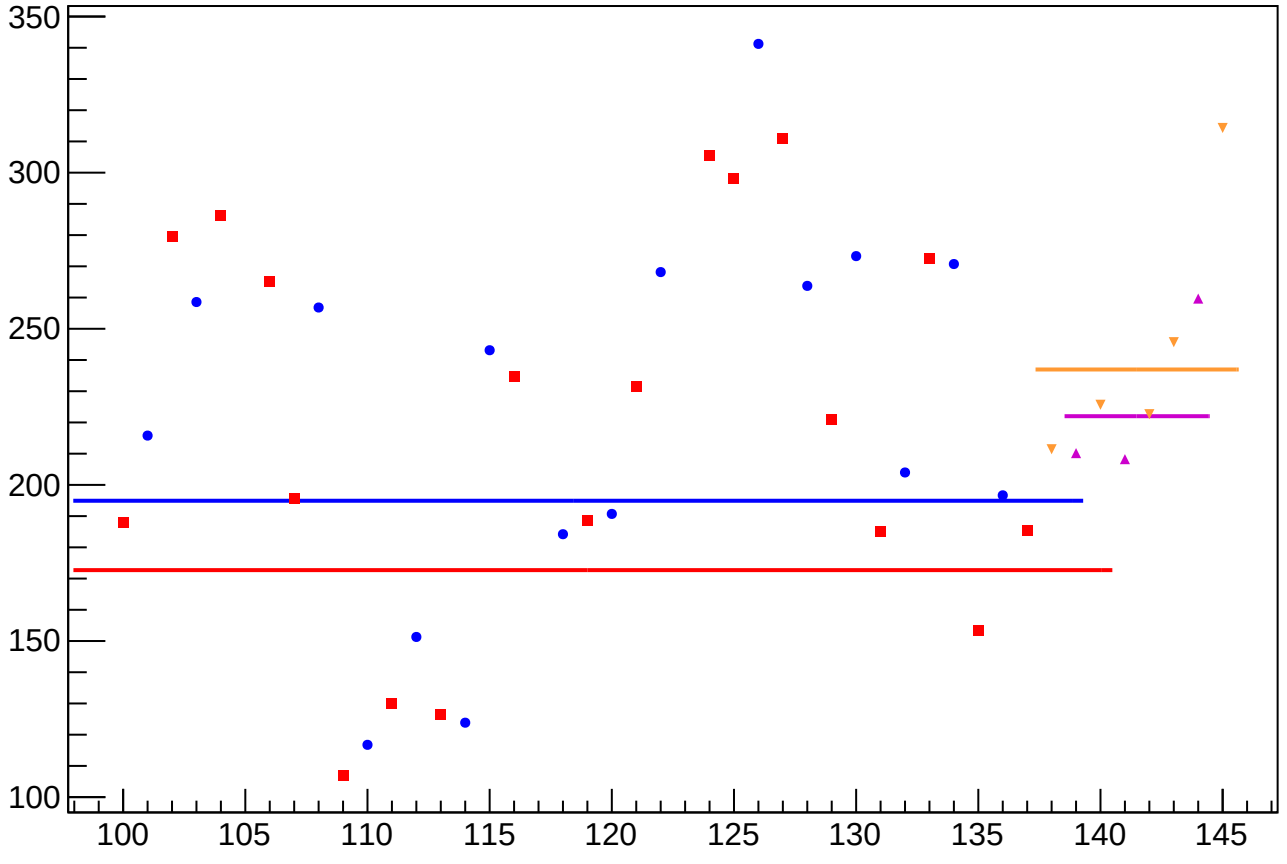
Right: -92.360+/-51.061 $\chi^2$/NDF: 28.9/34

In: 25.679+/-67.038 $\chi^2$/NDF:20.1/18

Out: -37.985+/-60.150 $\chi^2$/NDF:20.6/23

All: -9.590+/-44.770 $\chi^2$/NDF: 41.2/42

# asym_bcm_target_rms vs Slug, Sign Corrected




Right In: 194.923+/-0.054 $\chi^2$/NDF: 1028901.2/15

Left Out: 236.960+/-0.089 $\chi^2$/NDF:129749.8/4

Right Out: 172.704+/-0.048 $\chi^2$/NDF: 1631350.4/18

Left In: 222.003+/-0.098 $\chi^2$/NDF:50379.1/2

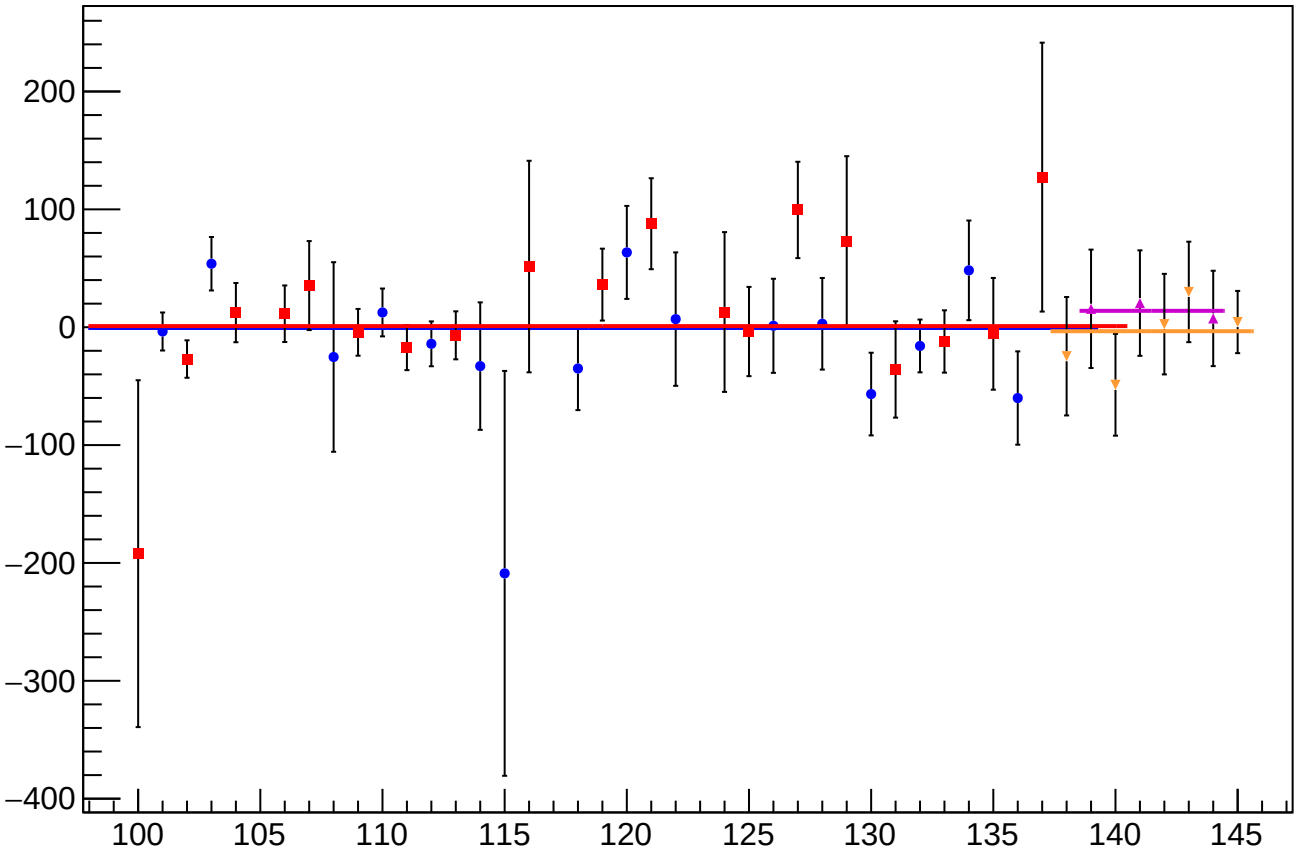
Left: 230.212+/-0.066 $\chi^2$/NDF: 192910.8/7

Right: 182.579+/-0.036 $\chi^2$/NDF: 2753755.7/34

In: 201.257+/-0.047 $\chi^2$/NDF:1137765.5/18

Out: 187.424+/-0.043 $\chi^2$/NDF:2164188.1/23

All: 193.594+/-0.032 $\chi^2$/NDF: 3349133.2/42




Right In: -0.624+/-7.340 $\chi^2$/NDF: 18.9/15

Left Out: -3.380+/-16.985 $\chi^2$/NDF:2.0/4

Right Out: 0.938+/-6.767 $\chi^2$/NDF: 23.1/18

Left In: 13.916+/-25.766 $\chi^2$/NDF:0.0/2

Left: 1.859+/-14.181 $\chi^2$/NDF: 2.4/7

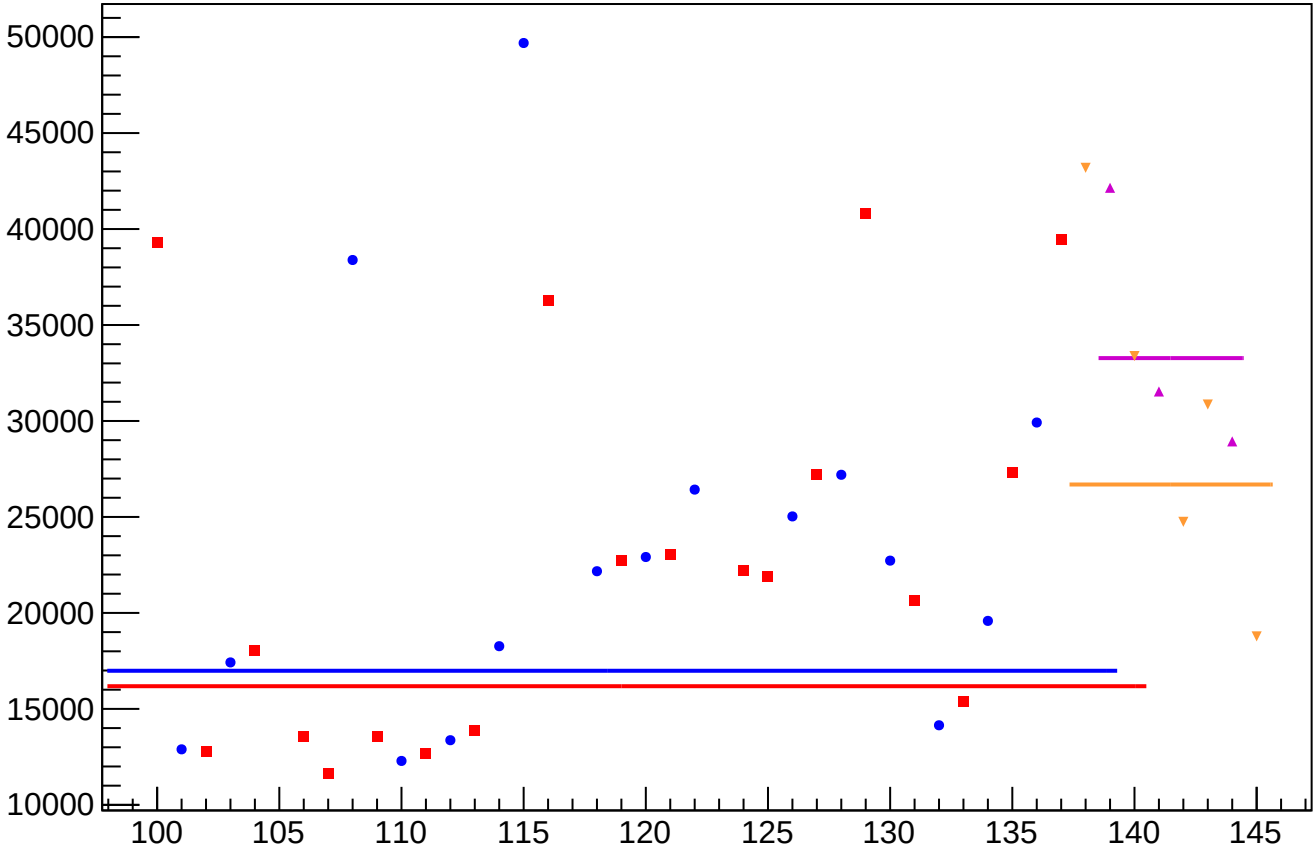
Right: 0.220+/-4.975 $\chi^2$/NDF: 42.0/34

In: 0.468+/-7.059 $\chi^2$/NDF:19.2/18

Out: 0.346+/-6.286 $\chi^2$/NDF:25.1/23

All: 0.400+/-4.695 $\chi^2$/NDF: 44.3/42

# asym_bcm_an_diff_rms vs Slug, Sign Corrected




Right In: 16986.402+/-5.190 $\chi^2$/NDF: 1194096.1/15

Left Out: 26690.557+/-12.010 $\chi^2$/NDF:466563.7/4

Right Out: 16181.928+/-4.785 $\chi^2$/NDF: 1251495.8/18

Left In: 33275.795+/-18.219 $\chi^2$/NDF:88442.6/2

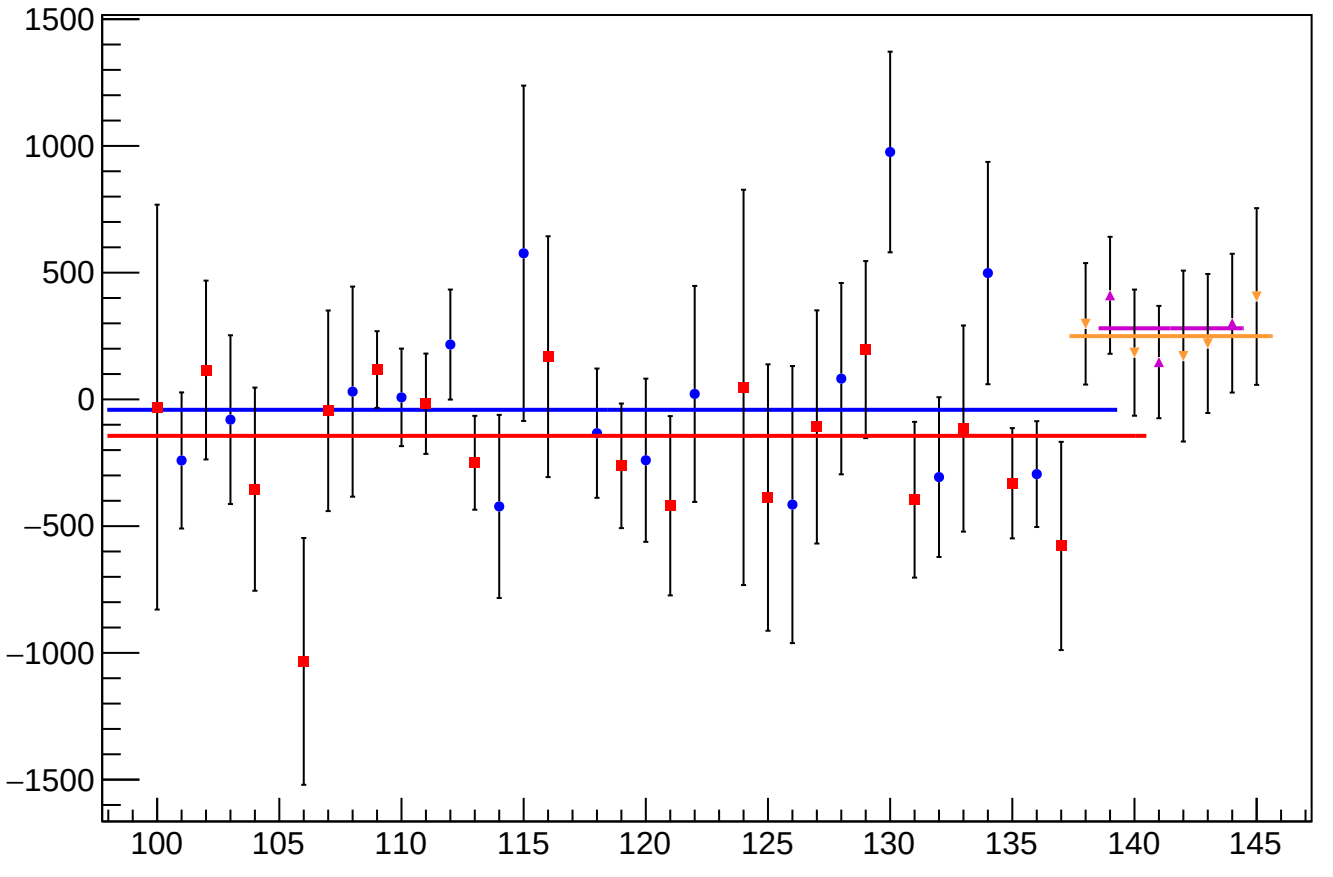
Left: 28685.313+/-10.028 $\chi^2$/NDF: 646073.4/7

Right: 16551.529+/-3.518 $\chi^2$/NDF: 2458578.1/34

In: 18209.168+/-4.992 $\chi^2$/NDF:2021893.4/18

Out: 17621.484+/-4.445 $\chi^2$/NDF:2378767.1/23

All: 17881.403+/-3.320 $\chi^2$/NDF: 4408390.8/4




Right In: -41.048+/-76.156 $\chi^2$/NDF: 15.5/15

Left Out: 249.621+/-125.107 $\chi^2$/NDF:0.4/4

Right Out: -143.821+/-68.080 $\chi^2$/NDF: 13.0/18

Left In: 280.562+/-138.014 $\chi^2$/NDF:0.7/2

Left: 263.578+/-92.692 $\chi^2$/NDF: 1.1/7

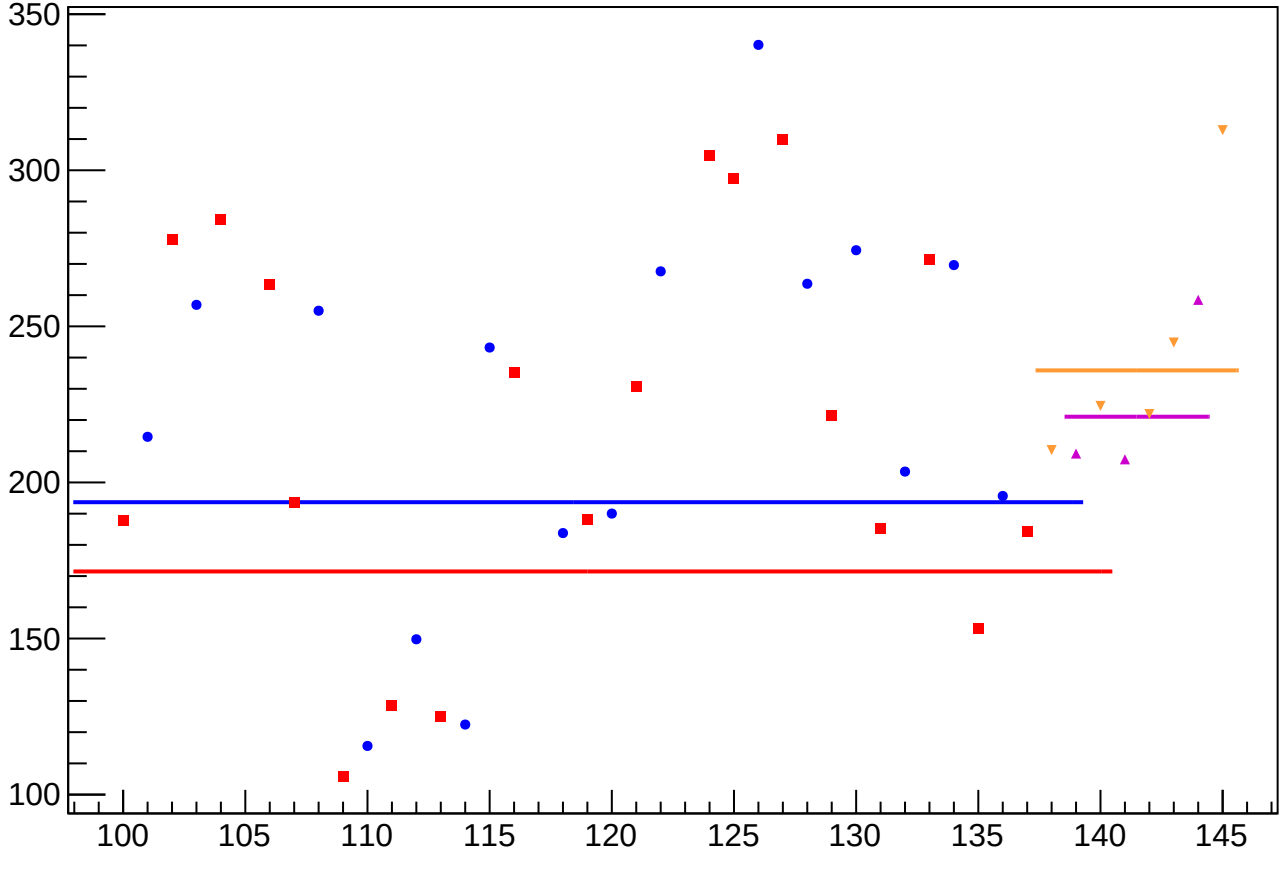
Right: -98.171+/-50.756 $\chi^2$/NDF: 29.5/34

In: 34.021+/-66.679 $\chi^2$/NDF:20.3/18

Out: -53.931+/-59.799 $\chi^2$/NDF:21.0/23

All: -14.724+/-44.519 $\chi^2$/NDF: 42.3/42

# asym_bcm_an_ds_rms vs Slug, Sign Corrected




Right In: 193.670+/-0.054 $\chi^2$/NDF: 1049772.0/15

Left Out: 235.895+/-0.088 $\chi^2$/NDF:129918.4/4

Right Out: 171.484+/-0.048 $\chi^2$/NDF: 1652989.7/18

Left In: 221.055+/-0.098 $\chi^2$/NDF:50232.1/2

Left: 229.201+/-0.066 $\chi^2$/NDF: 192843.8/7

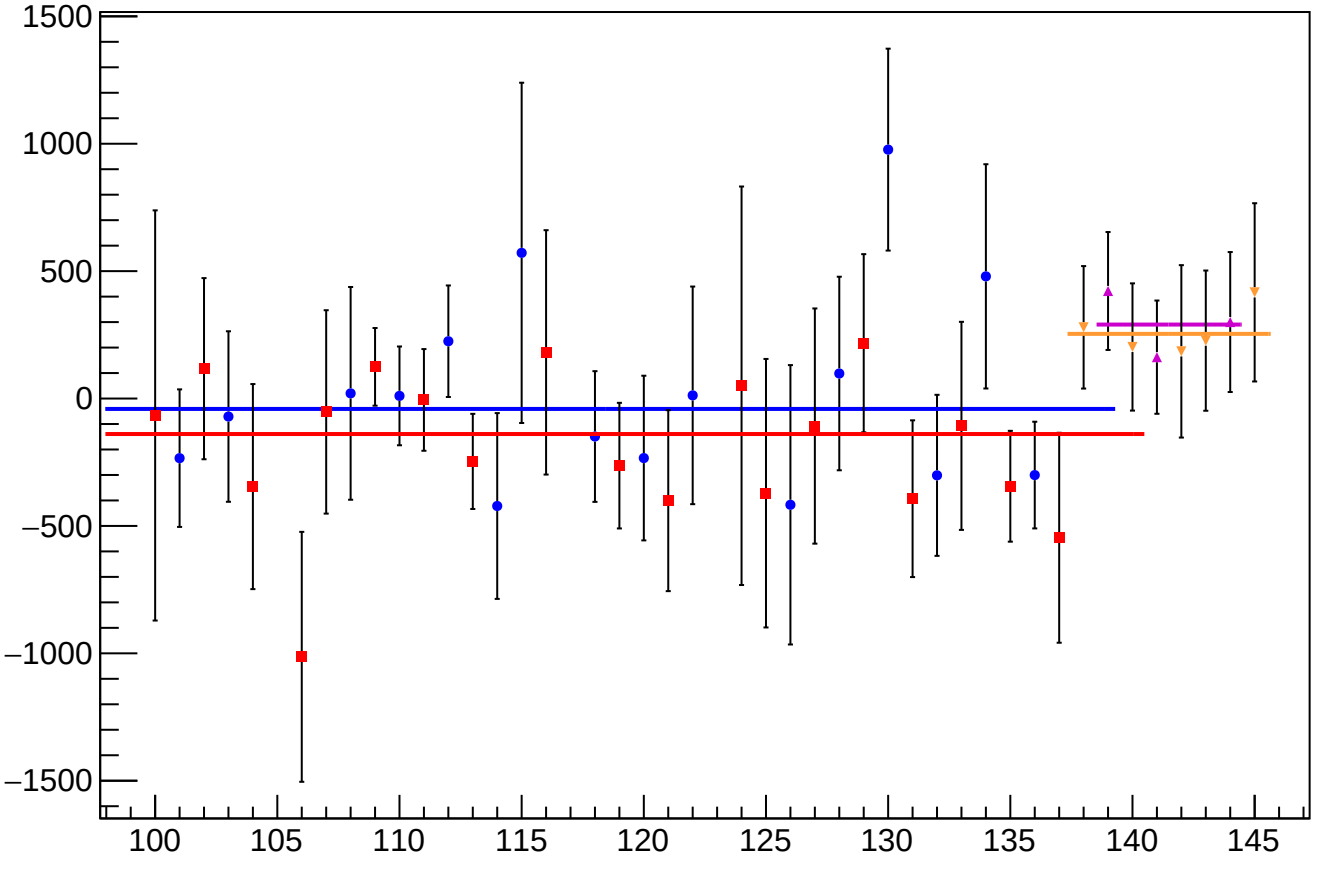
Right: 181.339+/-0.036 $\chi^2$/NDF: 2797109.1/34

In: 200.062+/-0.047 $\chi^2$/NDF:1160364.9/18

Out: 186.200+/-0.042 $\chi^2$/NDF:2191924.4/23

All: 192.379+/-0.031 $\chi^2$/NDF: 3400199.7/42

# asym_bcm_an_ds3_mean vs Slug, Sign Corrected




Right In: -40.798+/-76.579 $\chi^2$/NDF: 15.4/15

Left Out: 253.806+/-125.514 $\chi^2$/NDF:0.3/4

Right Out: -139.292+/-68.459 $\chi^2$/NDF: 12.9/18

Left In: 290.343+/-138.436 $\chi^2$/NDF:0.7/2

Left: 270.290+/-92.985 $\chi^2$/NDF: 1.0/7

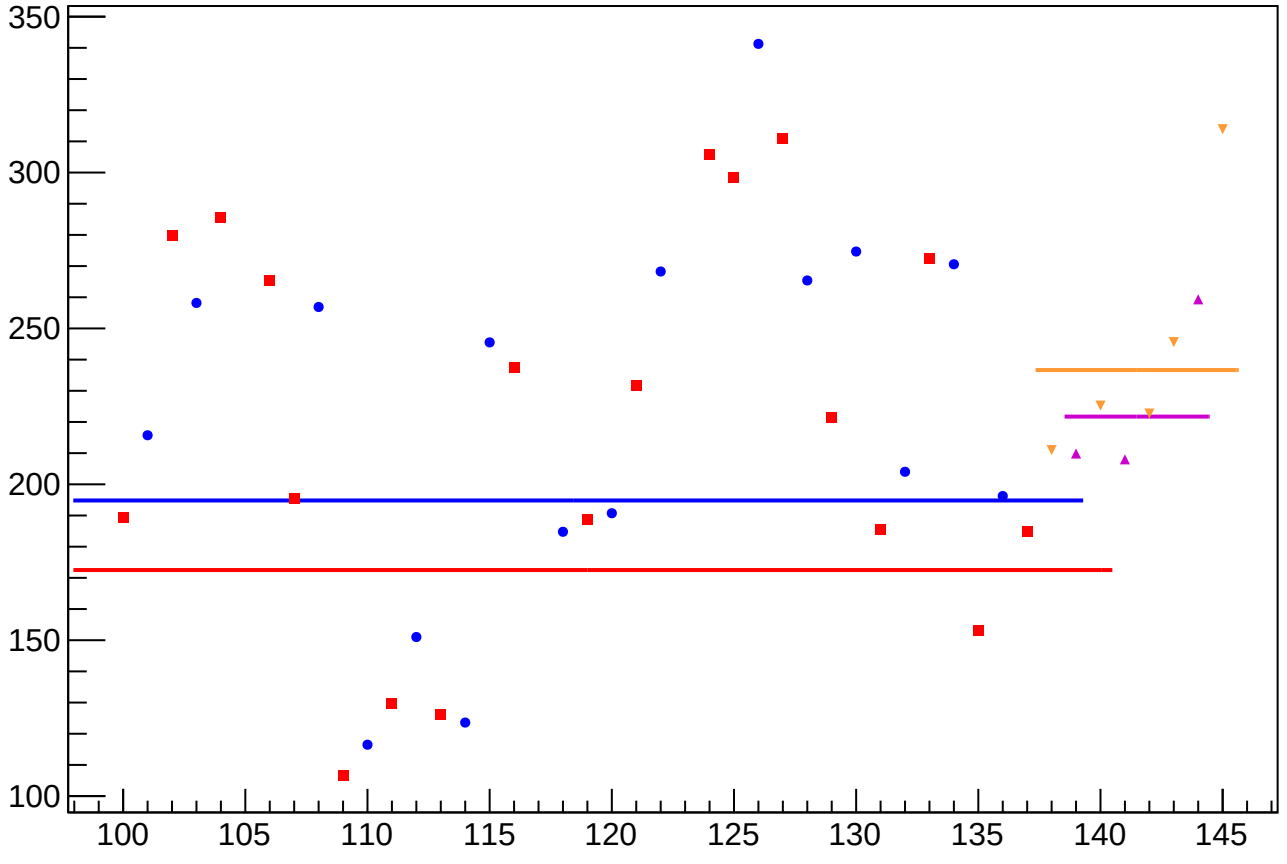
Right: -95.542+/-51.038 $\chi^2$/NDF: 29.2/34

In: 36.789+/-67.010 $\chi^2$/NDF:20.4/18

Out: -49.161+/-60.101 $\chi^2$/NDF:20.8/23

All: -10.844+/-44.742 $\chi^2$/NDF: 42.1/42

# asym_bcm_an_ds3_rms vs Slug, Sign Corrected




Right In: 194.819+/-0.054 $\chi^2$/NDF: 1039096.7/15

Left Out: 236.658+/-0.089 $\chi^2$/NDF:130092.5/4

Right Out: 172.507+/-0.048 $\chi^2$/NDF: 1642059.1/18

Left In: 221.726+/-0.098 $\chi^2$/NDF:50364.1/2

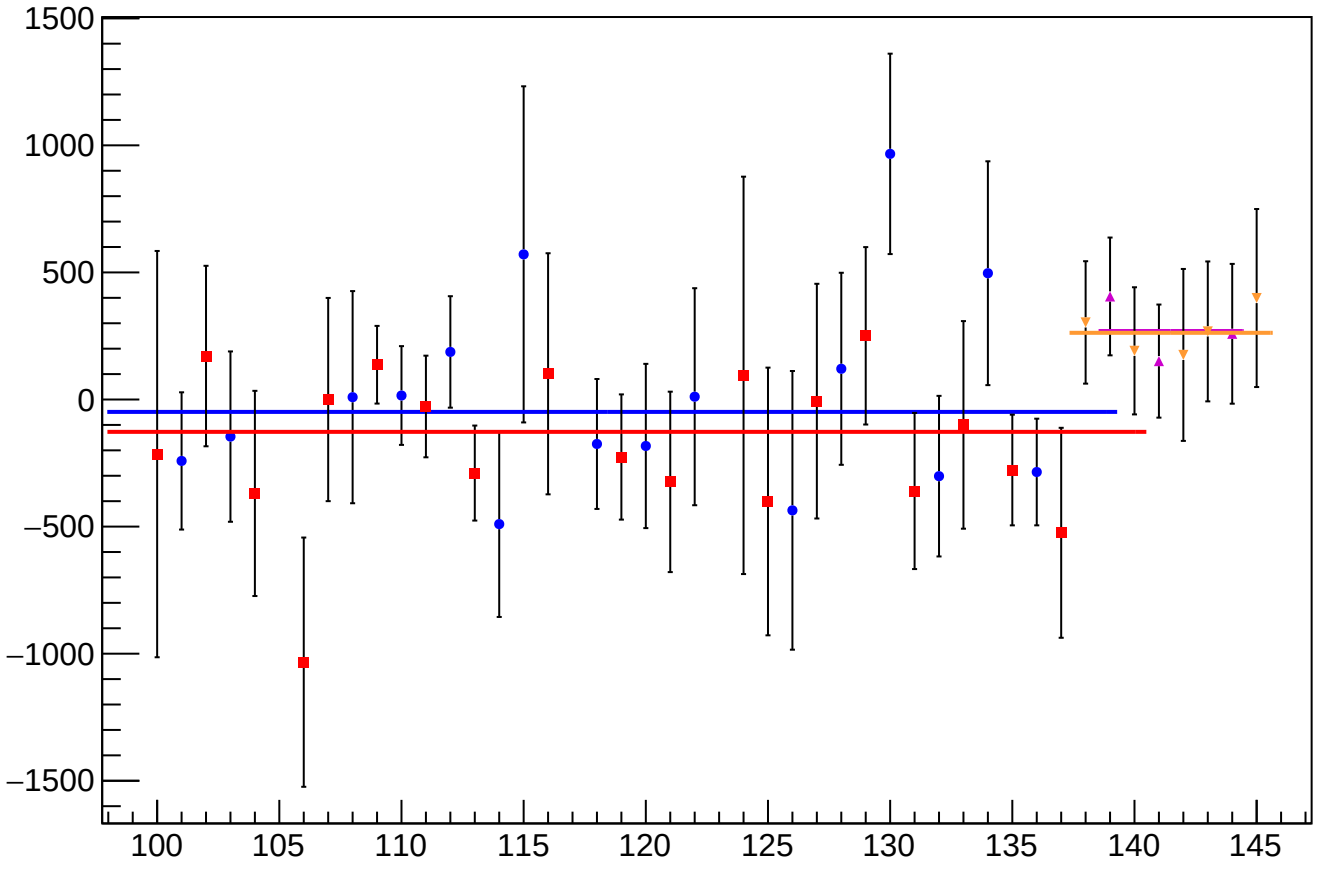
Left: 229.921+/-0.066 $\chi^2$/NDF: 193226.4/7

Right: 182.418+/-0.036 $\chi^2$/NDF: 2775527.6/34

In: 201.124+/-0.047 $\chi^2$/NDF:1147310.9/18

Out: 187.216+/-0.042 $\chi^2$/NDF:2174817.8/23

All: 193.416+/-0.032 $\chi^2$/NDF: 3369877.0/42




Right In: -48.749+/-76.592 $\chi^2$/NDF: 15.4/15

Left Out: 262.404+/-125.670 $\chi^2$/NDF:0.3/4

Right Out: -127.249+/-68.506 $\chi^2$/NDF: 12.9/18

Left In: 269.424+/-138.606 $\chi^2$/NDF:0.6/2

Left: 265.571+/-93.100 $\chi^2$/NDF: 1.0/7

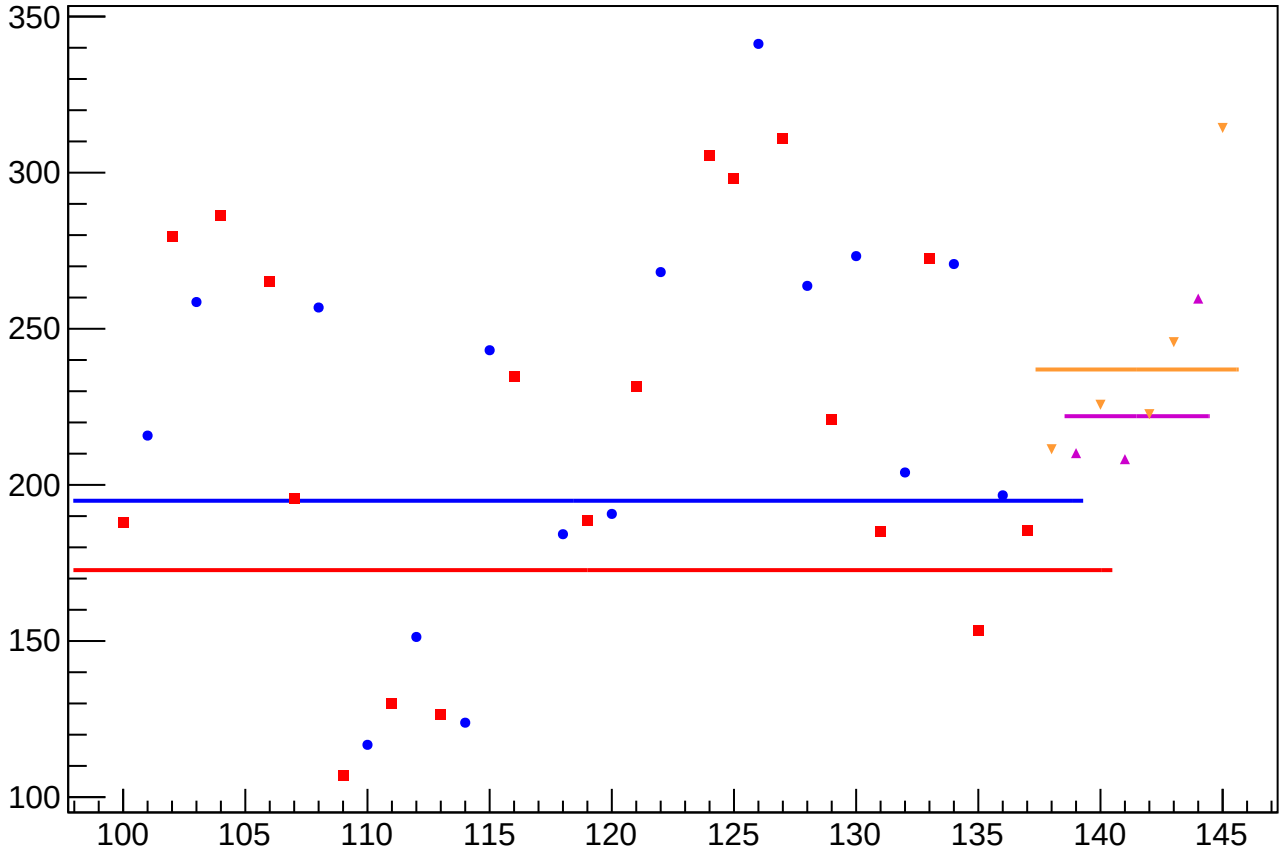
Right: -92.360+/-51.061 $\chi^2$/NDF: 28.9/34

In: 25.679+/-67.038 $\chi^2$/NDF:20.1/18

Out: -37.985+/-60.150 $\chi^2$/NDF:20.6/23

All: -9.590+/-44.770 $\chi^2$/NDF: 41.2/42

# asym_bcm_an_us_rms vs Slug, Sign Corrected




Right In: 194.923+/-0.054 $\chi^2$/NDF: 1028901.2/15

Left Out: 236.960+/-0.089 $\chi^2$/NDF:129749.8/4

Right Out: 172.704+/-0.048 $\chi^2$/NDF: 1631350.4/18

Left In: 222.003+/-0.098 $\chi^2$/NDF:50379.1/2

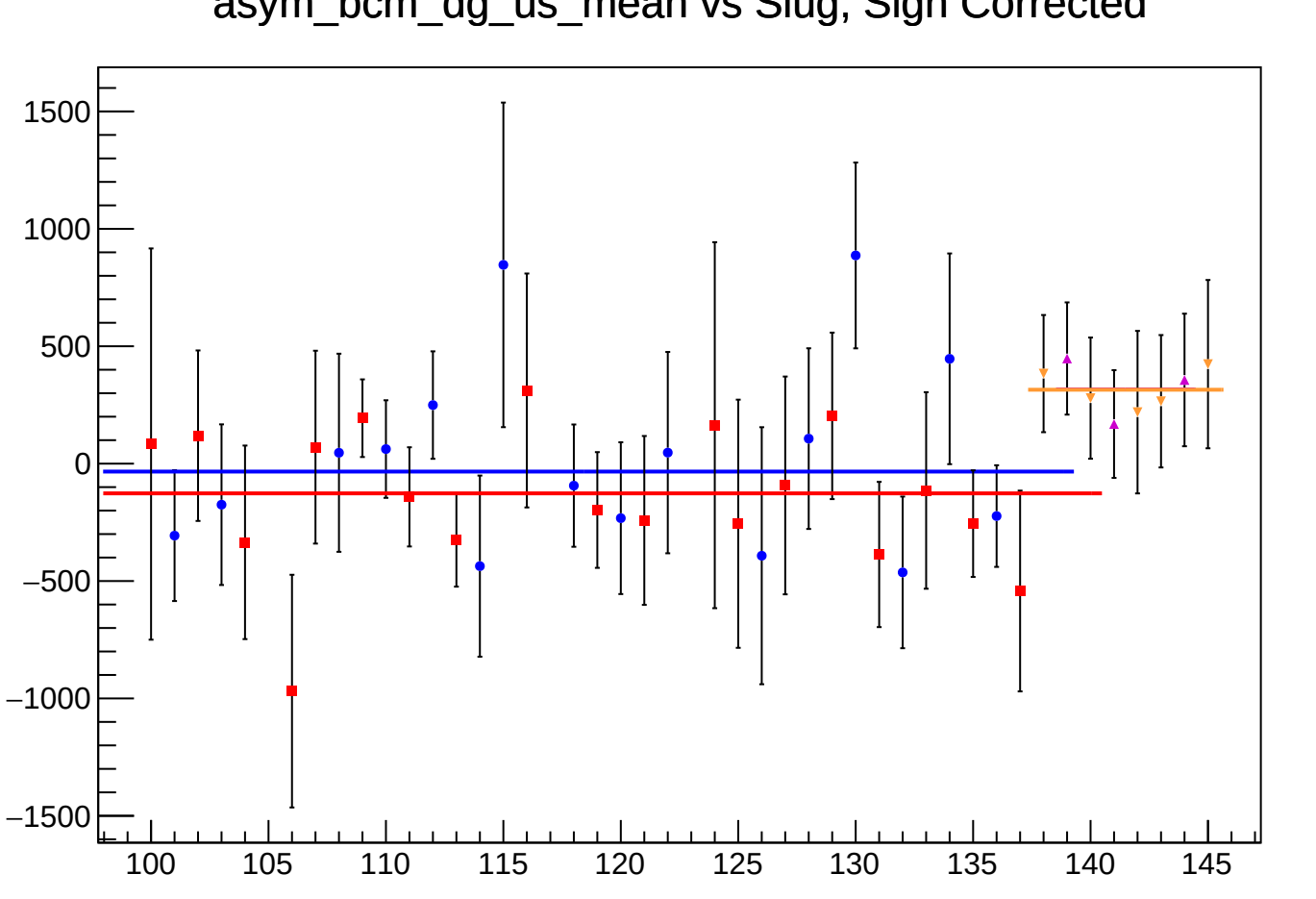
Left: 230.212+/-0.066 $\chi^2$/NDF: 192910.8/7

Right: 182.579+/-0.036 $\chi^2$/NDF: 2753755.7/34

In: 201.257+/-0.047 $\chi^2$/NDF:1137765.5/18

Out: 187.424+/-0.043 $\chi^2$/NDF:2164188.1/23

All: 193.594+/-0.032 $\chi^2$/NDF: 3349133.2/42




Right In: -33.731+/-78.996 $\chi^2$/NDF: 15.7/15

Left Out: 314.803+/-129.337 $\chi^2$/NDF:0.3/4

Right Out: -126.563+/-71.309 $\chi^2$/NDF: 12.7/18

Left In: 316.334+/-142.779 $\chi^2$/NDF:0.7/2

Left: 315.493+/-95.856 $\chi^2$/NDF: 1.0/7

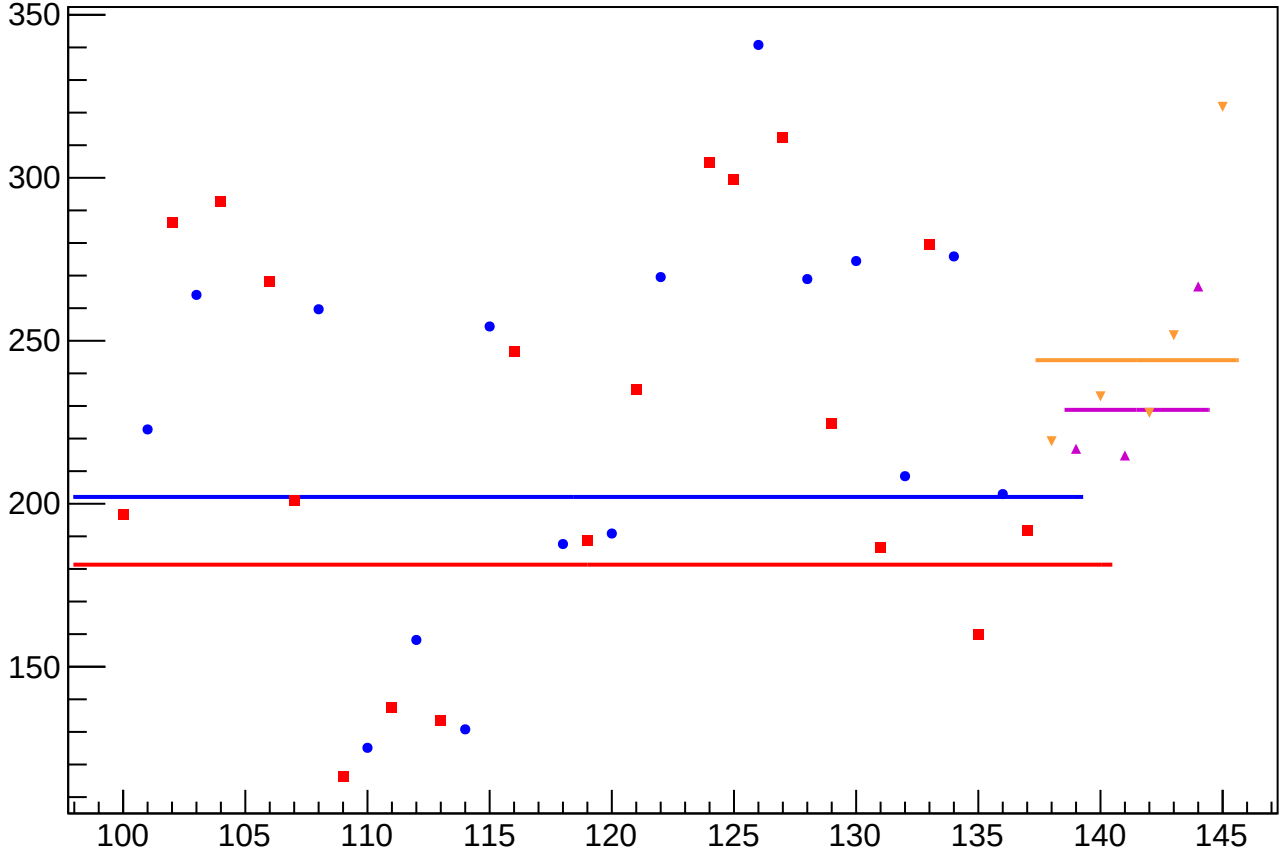
Right: -84.882+/-52.933 $\chi^2$/NDF: 29.2/34

In: 48.313+/-69.122 $\chi^2$/NDF:21.1/18

Out: -23.674+/-62.447 $\chi^2$/NDF:21.9/23

All: 8.677+/-46.337 $\chi^2$/NDF: 43.6/42

# asym_bcm_dg_us_rms vs Slug, Sign Corrected




Right In: 202.090+/-0.056 $\chi^2$/NDF: 910259.2/15

Left Out: 244.048+/-0.091 $\chi^2$/NDF:123447.7/4

Right Out: 181.312+/-0.050 $\chi^2$/NDF: 1440989.4/18

Left In: 228.809+/-0.101 $\chi^2$/NDF:48393.6/2

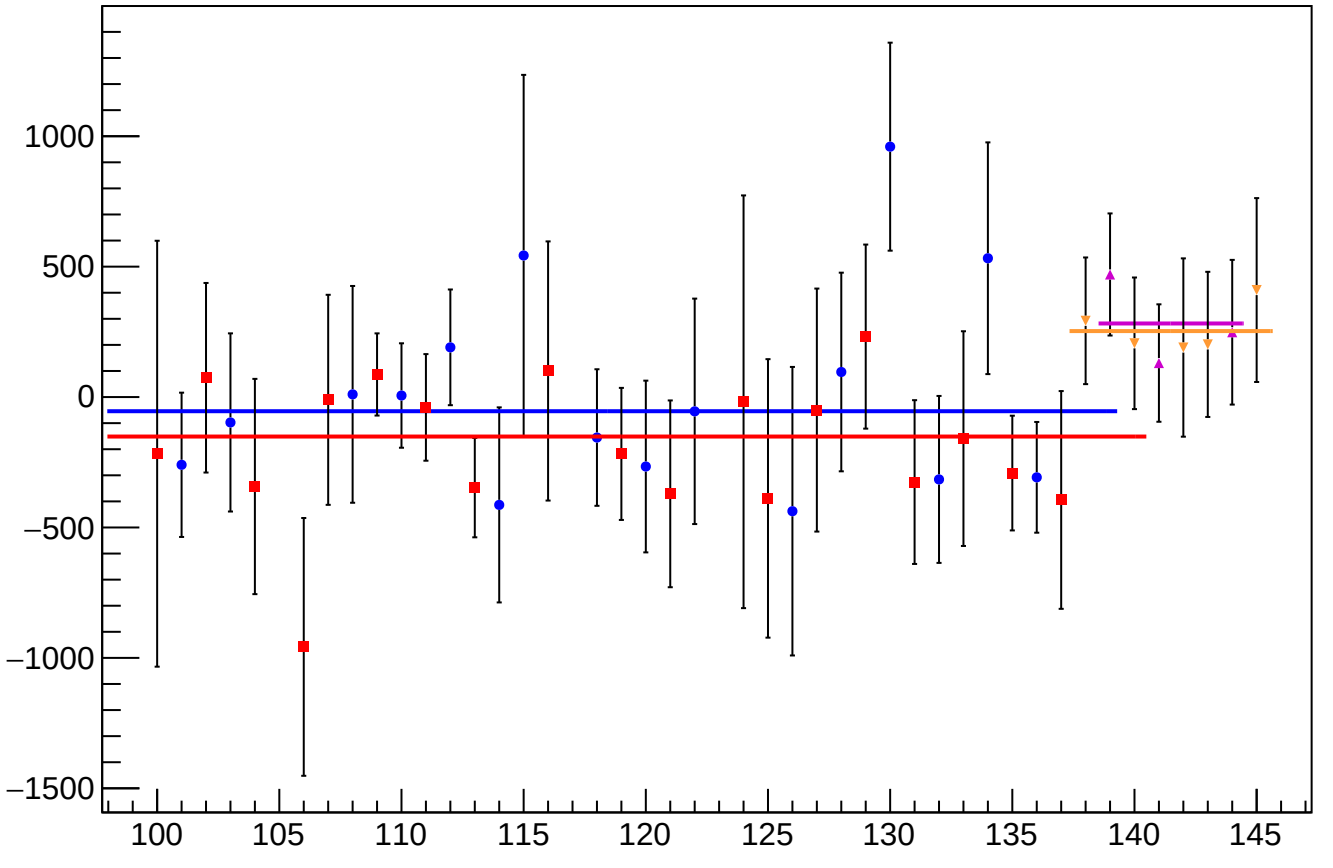
Left: 237.179+/-0.068 $\chi^2$/NDF: 184355.3/7

Right: 190.641+/-0.037 $\chi^2$/NDF: 2427488.6/34

In: 208.352+/-0.049 $\chi^2$/NDF:1012276.1/18

Out: 195.937+/-0.044 $\chi^2$/NDF:1925296.5/23

All: 201.516+/-0.033 $\chi^2$/NDF: 2973099.5/42




Right In: -54.254+/-77.946 $\chi^2$/NDF: 15.1/15

Left Out: 252.956+/-126.799 $\chi^2$/NDF:0.3/4

Right Out: -151.358+/-69.902 $\chi^2$/NDF: 10.2/18

Left In: 282.133+/-140.047 $\chi^2$/NDF:1.1/2

Left: 266.100+/-93.996 $\chi^2$/NDF: 1.5/7

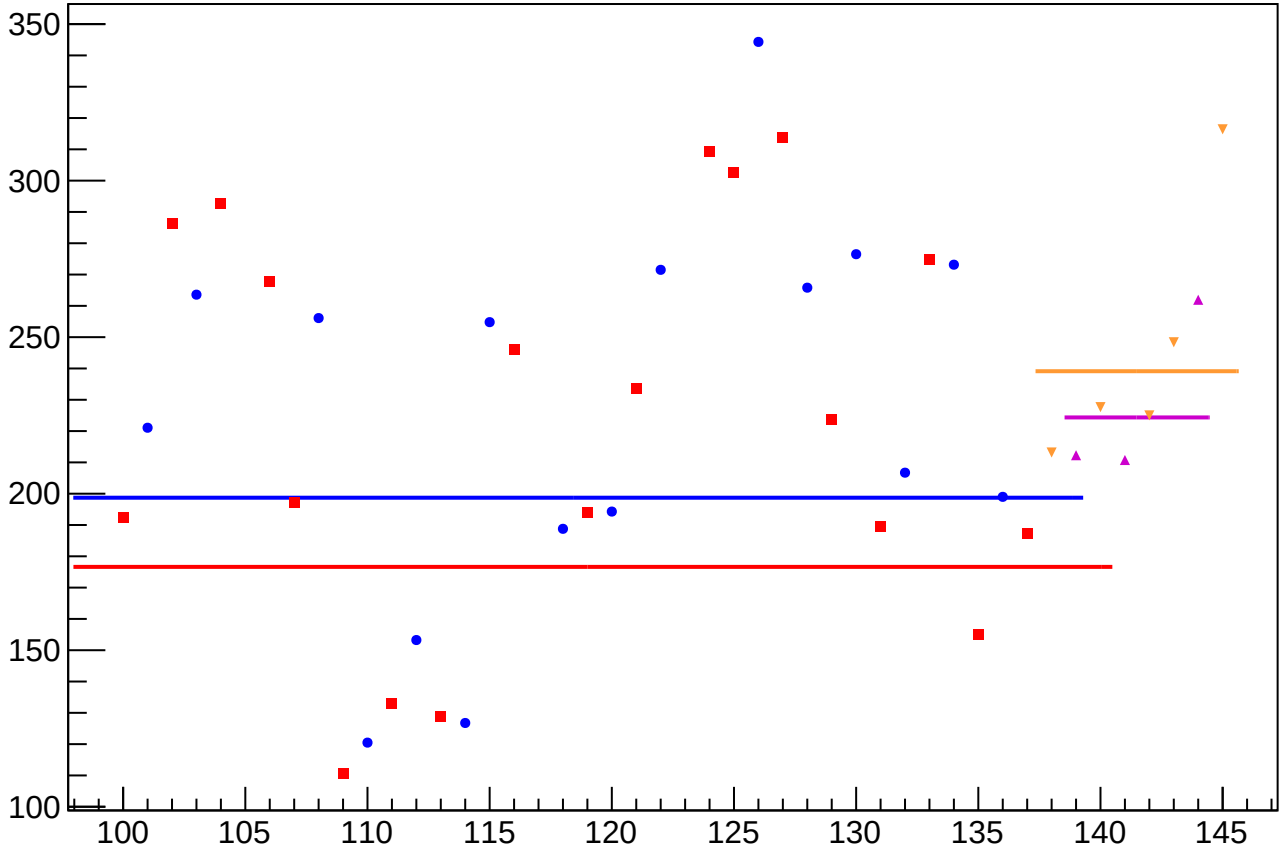
Right: -108.074+/-52.040 $\chi^2$/NDF: 26.2/34

In: 25.303+/-68.108 $\chi^2$/NDF:20.6/18

Out: -57.123+/-61.216 $\chi^2$/NDF:18.4/23

All: -20.290+/-45.528 $\chi^2$/NDF: 39.8/42

# asym_bcm_dg_ds_rms vs Slug, Sign Corrected




Right In: 198.718+/-0.055 $\chi^2$/NDF: 994068.9/15

Left Out: 239.122+/-0.090 $\chi^2$/NDF:128737.4/4

Right Out: 176.621+/-0.049 $\chi^2$/NDF: 1595710.1/18

Left In: 224.360+/-0.099 $\chi^2$/NDF:49340.6/2

Left: 232.472+/-0.066 $\chi^2$/NDF: 190290.3/7

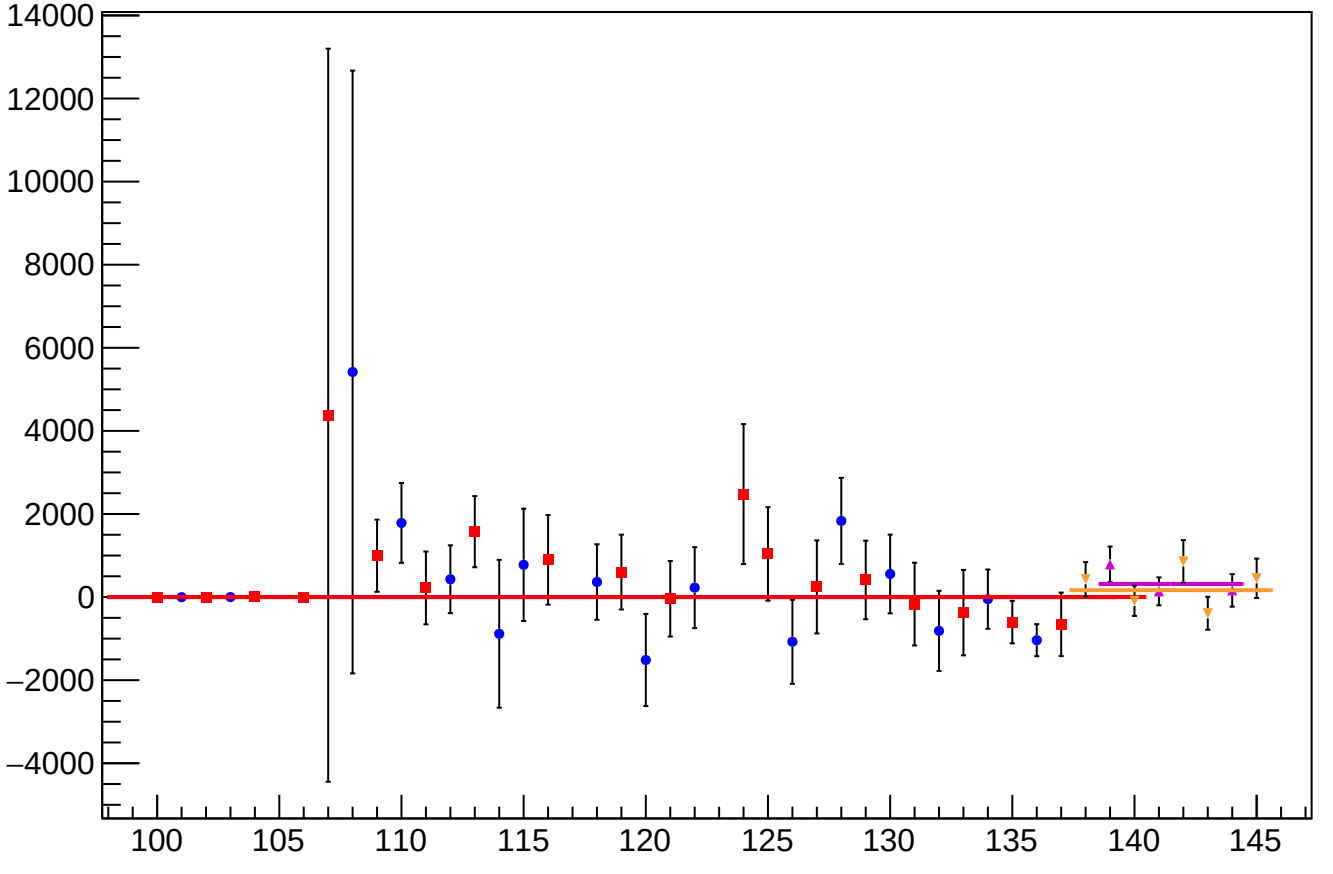
Right: 186.471+/-0.037 $\chi^2$/NDF: 2678866.0/34

In: 204.783+/-0.048 $\chi^2$/NDF:1094596.4/18

Out: 191.189+/-0.043 $\chi^2$/NDF:2097113.4/23

All: 197.263+/-0.032 $\chi^2$/NDF: 3235781.8/42

# asym_cav4bQ_mean vs Slug, Sign Corrected




Right In: -1.239+/-2.171 $\chi^2$/NDF: 19.9/15

Left Out: 165.745+/-188.635 $\chi^2$/NDF:5.1/4

Right Out: 1.377+/-2.022 $\chi^2$/NDF: 16.8/18

Left In: 315.548+/-219.149 $\chi^2$/NDF:1.7/2

Left: 229.499+/-142.966 $\chi^2$/NDF: 7.0/7

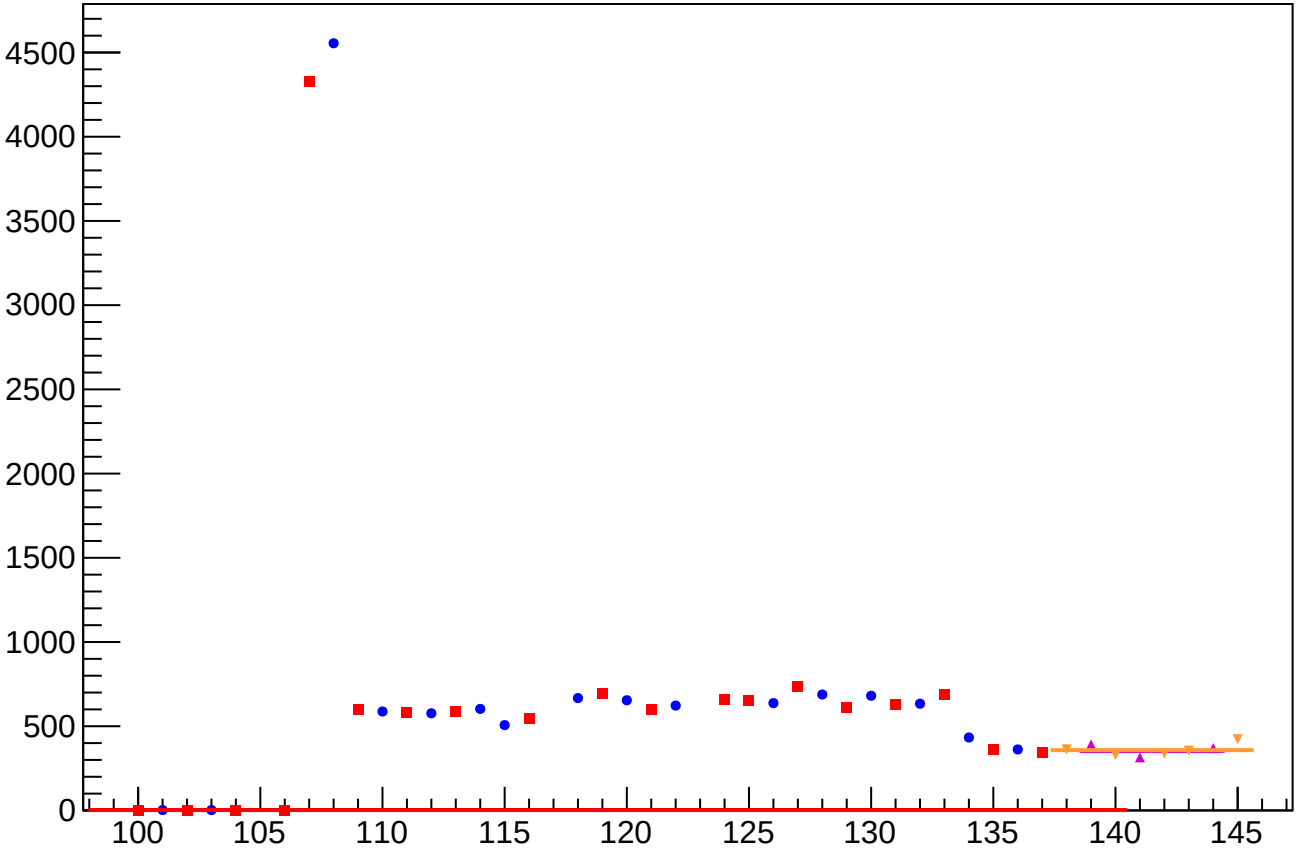
Right: 0.162+/-1.480 $\chi^2$/NDF: 37.5/34

In: -1.208+/-2.171 $\chi^2$/NDF:23.7/18

Out: 1.396+/-2.022 $\chi^2$/NDF:22.7/23

All: 0.186+/-1.480 $\chi^2$/NDF: 47.1/42

# asym_cav4bQ_rms vs Slug, Sign Corrected




Right In: 2.477+/-0.002 $\chi^2$/NDF: 11626192.3/15

Left Out: 358.108+/-0.133 $\chi^2$/NDF:53047.4/4

Right Out: 2.462+/-0.001 $\chi^2$/NDF: 11545445.6/18

Left In: 352.664+/-0.155 $\chi^2$/NDF:45138.9/2

Left: 355.791+/-0.101 $\chi^2$/NDF: 98895.4/7

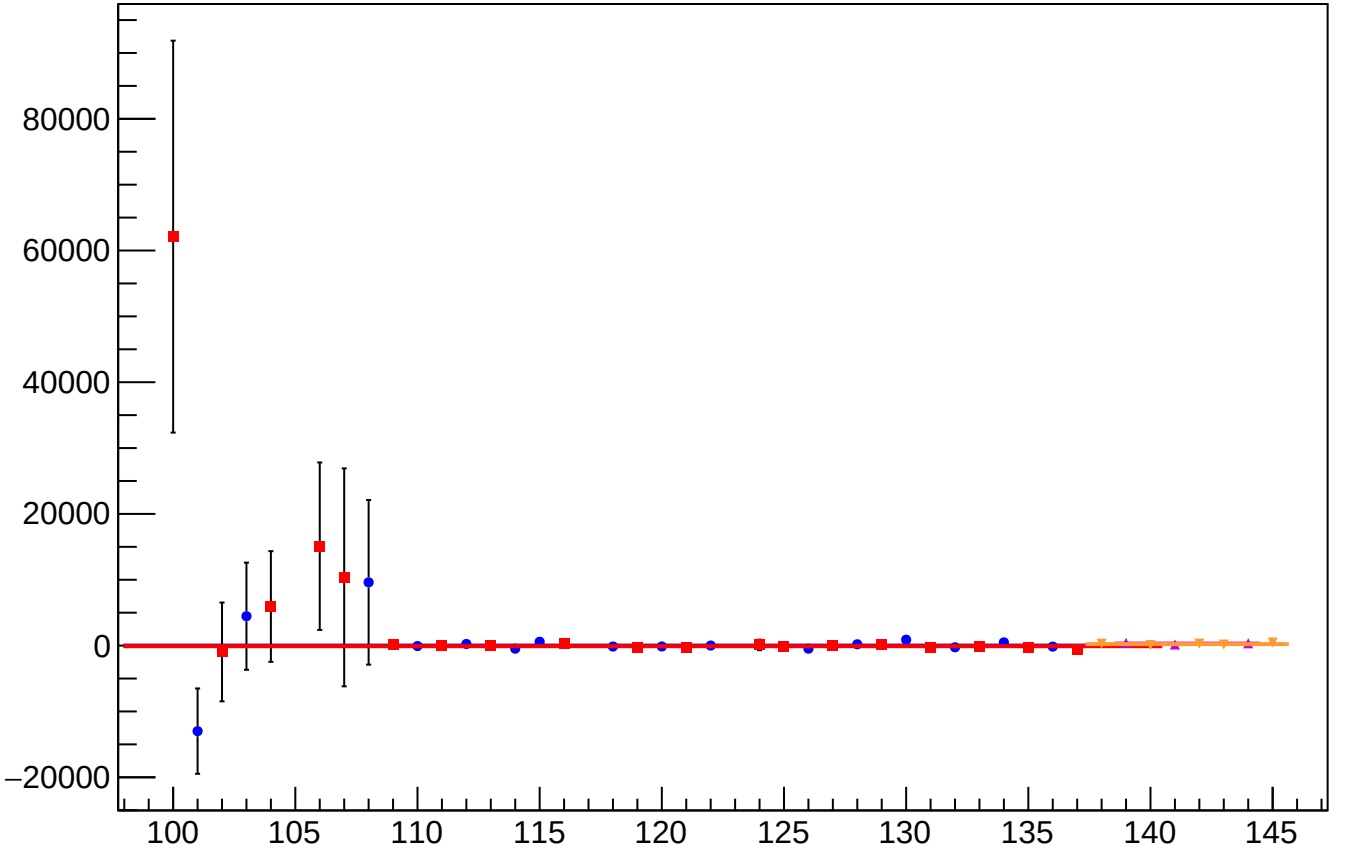
Right: 2.469+/-0.001 $\chi^2$/NDF: 23171686.0/34

In: 2.511+/-0.002 $\chi^2$/NDF:16777663.7/18

Out: 2.503+/-0.001 $\chi^2$/NDF:18706927.3/23

All: 2.507+/-0.001 $\chi^2$/NDF: 35484605.6/42

# asym_cav4cQ_mean vs Slug, Sign Corrected




Right In: 0.575+/-87.823 $\chi^2$/NDF: 16.8/15

Left Out: 226.910+/-131.475 $\chi^2$/NDF:1.0/4

Right Out: -88.089+/-81.605 $\chi^2$/NDF: 14.9/18

Left In: 302.444+/-142.504 $\chi^2$/NDF:0.6/2

Left: 261.641+/-96.631 $\chi^2$/NDF: 1.7/7

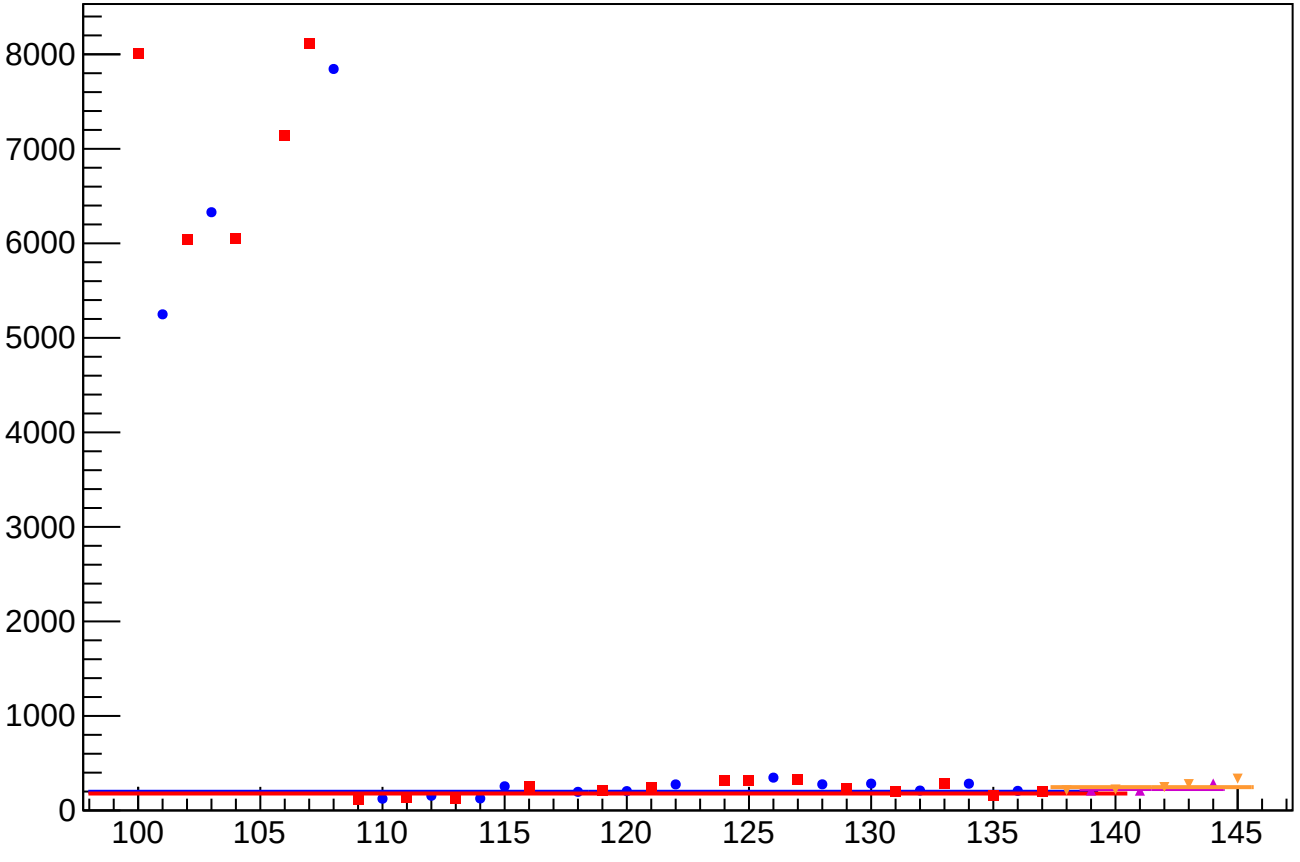
Right: -47.007+/-59.781 $\chi^2$/NDF: 32.3/34

In: 83.668+/-74.765 $\chi^2$/NDF:20.7/18

Out: -0.485+/-69.335 $\chi^2$/NDF:20.0/23

All: 38.425+/-50.839 $\chi^2$/NDF: 41.4/42

# asym_cav4cQ_rms vs Slug, Sign Corrected




Right In: 197.620+/-0.062 $\chi^2$/NDF: 3957192.6/15

Left Out: 246.613+/-0.093 $\chi^2$/NDF:194353.3/4

Right Out: 179.250+/-0.058 $\chi^2$/NDF: 4418422.9/18

Left In: 226.826+/-0.101 $\chi^2$/NDF:96647.2/2

Left: 237.515+/-0.068 $\chi^2$/NDF: 311831.4/7

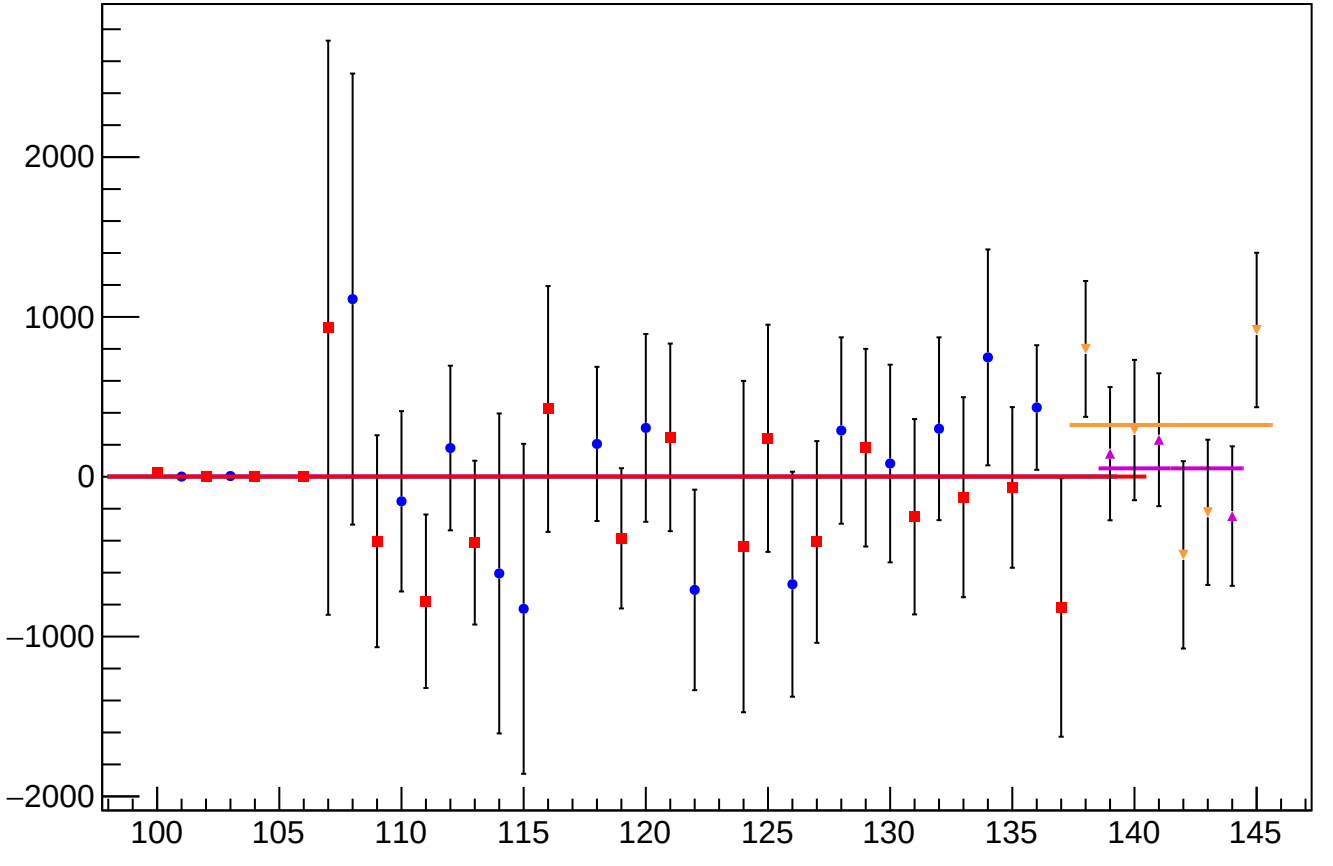
Right: 187.761+/-0.042 $\chi^2$/NDF: 8422574.8/34

In: 205.659+/-0.053 $\chi^2$/NDF:4114723.3/18

Out: 197.984+/-0.049 $\chi^2$/NDF:4991796.1/23

All: 201.533+/-0.036 $\chi^2$/NDF: 9117849.5/42

# asym_cav4dQ_mean vs Slug, Sign Corrected




Right In: 1.456+/-1.660 $\chi^2$/NDF: 7.9/15

Left Out: 323.998+/-209.604 $\chi^2$/NDF:6.1/4

Right Out: 1.094+/-1.528 $\chi^2$/NDF: 9.2/18

Left In: 52.441+/-244.040 $\chi^2$/NDF:0.7/2

Left: 208.715+/-159.006 $\chi^2$/NDF: 7.6/7

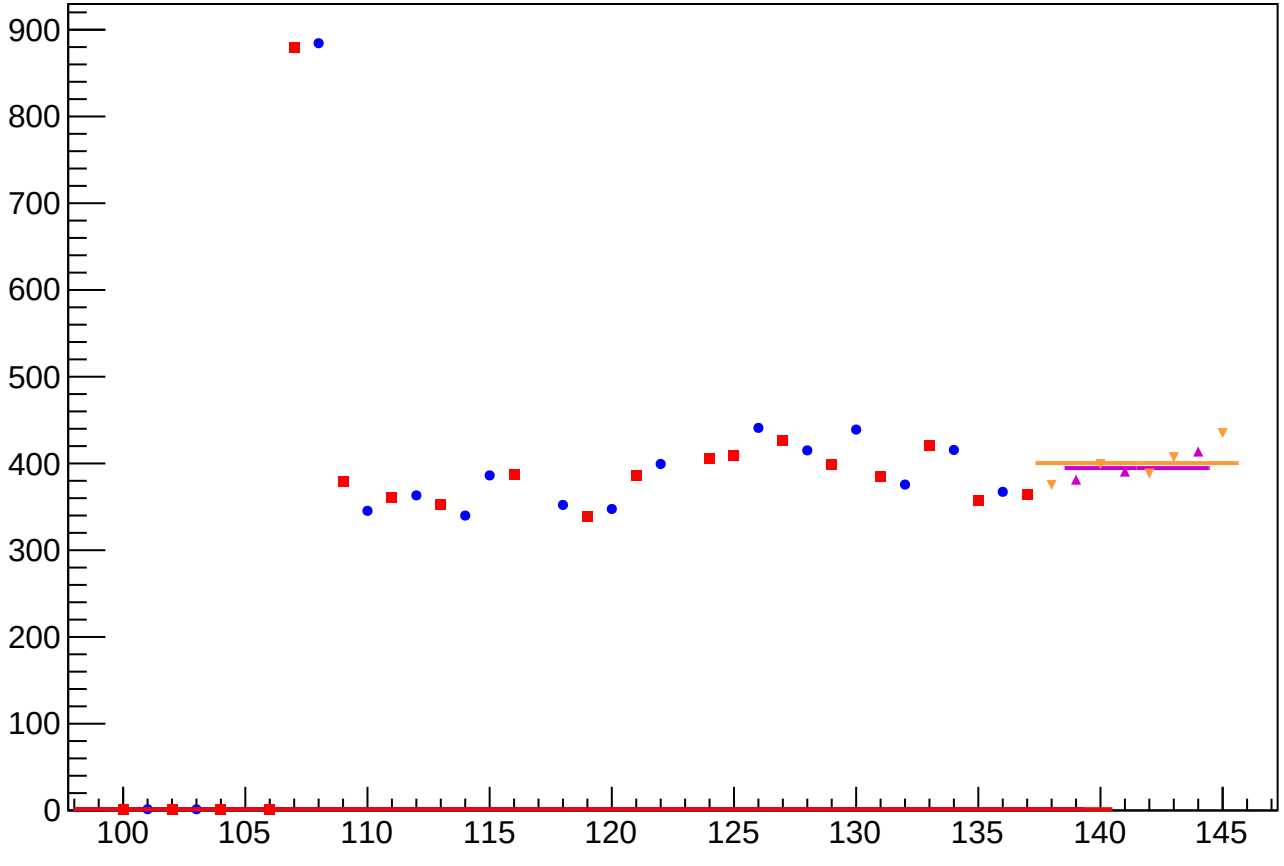
Right: 1.260+/-1.124 $\chi^2$/NDF: 17.1/34

In: 1.458+/-1.660 $\chi^2$/NDF:8.6/18

Out: 1.111+/-1.528 $\chi^2$/NDF:17.7/23

All: 1.270+/-1.124 $\chi^2$/NDF: 26.3/42

# asym_cav4dQ_rms vs Slug, Sign Corrected




Right In: 1.470+/-0.001 $\chi^2$/NDF: 11735334.0/15

Left Out: 400.419+/-0.148 $\chi^2$/NDF:18527.2/4

Right Out: 1.467+/-0.001 $\chi^2$/NDF: 11270430.6/18

Left In: 394.688+/-0.173 $\chi^2$/NDF:6056.9/2

Left: 397.986+/-0.112 $\chi^2$/NDF: 25219.0/7

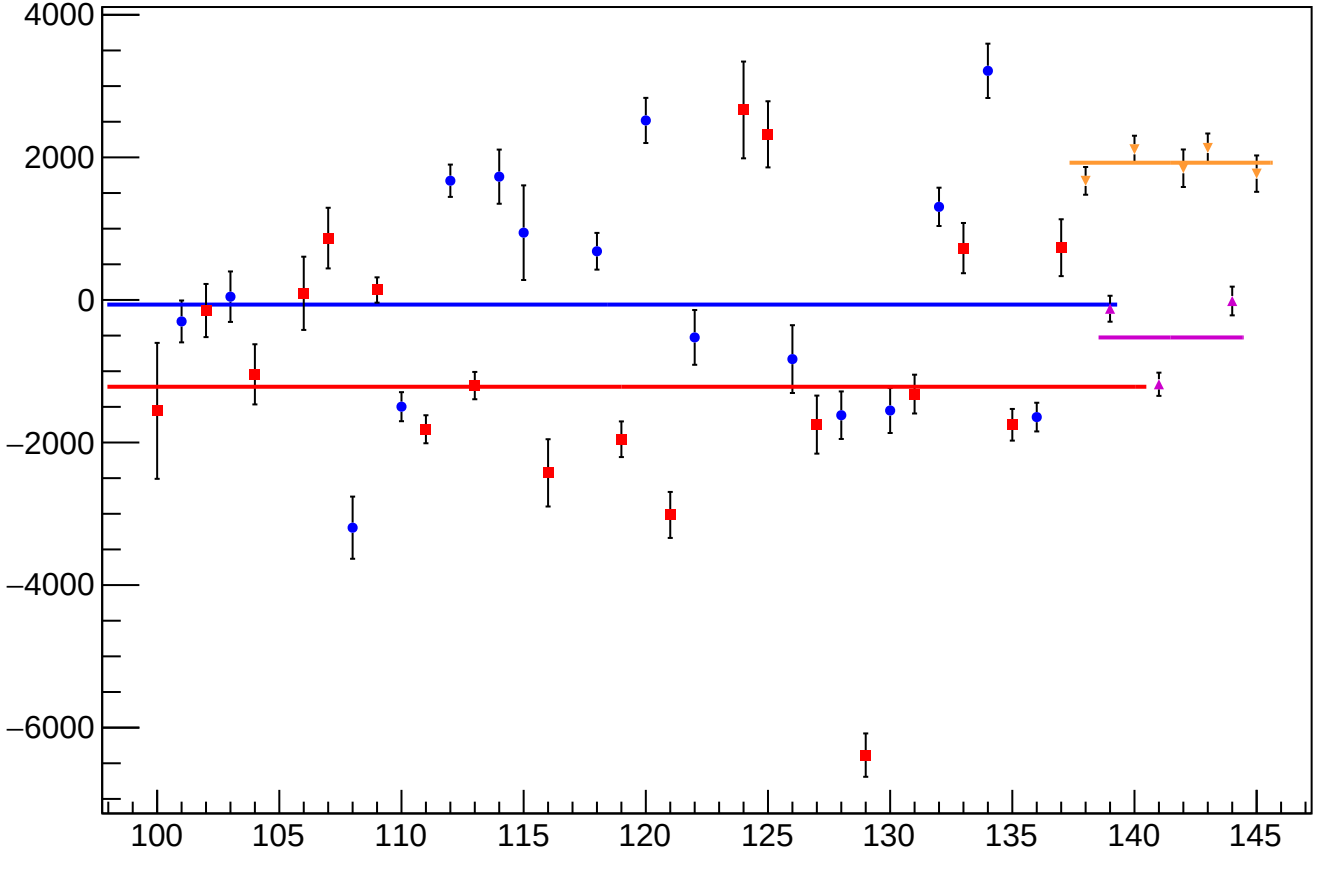
Right: 1.469+/-0.001 $\chi^2$/NDF: 23005768.2/34

In: 1.488+/-0.001 $\chi^2$/NDF:16933624.4/18

Out: 1.488+/-0.001 $\chi^2$/NDF:18534120.1/23

All: 1.488+/-0.001 $\chi^2$/NDF: 35467744.5/42

# asym_bcm0l02_mean vs Slug, Sign Corrected




Right In: -64.993+/-74.895 $\chi^2$/NDF: 469.5/15

Left Out: 1925.191+/-96.231 $\chi^2$/NDF:4.2/4

Right Out: -1217.846+/-69.022 $\chi^2$/NDF: 594.6/18

Left In: -526.191+/-103.944 $\chi^2$/NDF:27.6/2

Left: 793.820+/-70.615 $\chi^2$/NDF: 331.3/7

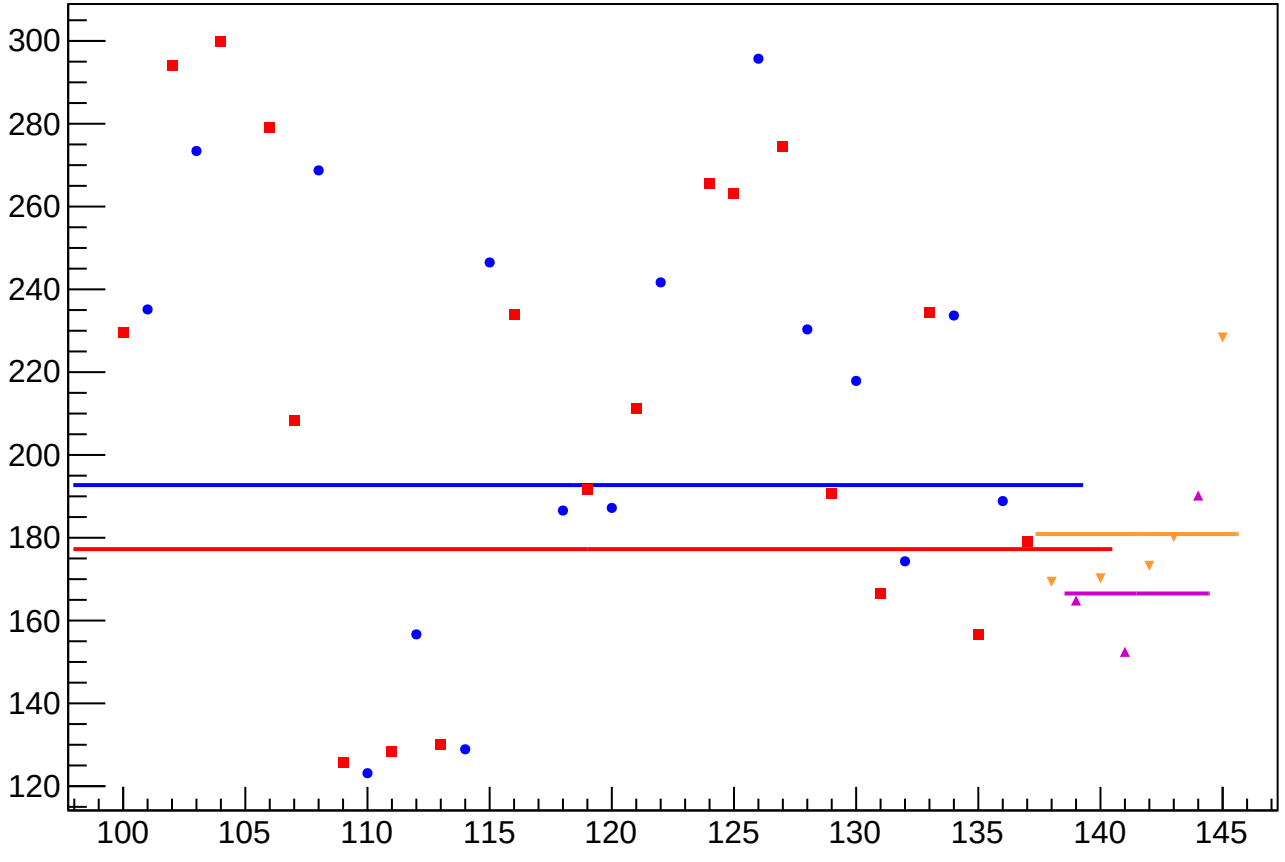
Right: -688.385+/-50.755 $\chi^2$/NDF: 1192.2/34

In: -222.604+/-60.765 $\chi^2$/NDF:510.0/18

Out: -150.165+/-56.087 $\chi^2$/NDF:1303.2/23

All: -183.489+/-41.214 $\chi^2$/NDF: 1814.0/42

# asym_bcm0l02_rms vs Slug, Sign Corrected




Right In: 192.719+/-0.053 $\chi^2$/NDF: 759146.3/15

Left Out: 180.897+/-0.068 $\chi^2$/NDF:84243.6/4

Right Out: 177.251+/-0.049 $\chi^2$/NDF: 1226180.2/18

Left In: 166.541+/-0.073 $\chi^2$/NDF:42729.4/2

Left: 174.271+/-0.050 $\chi^2$/NDF: 147516.1/7

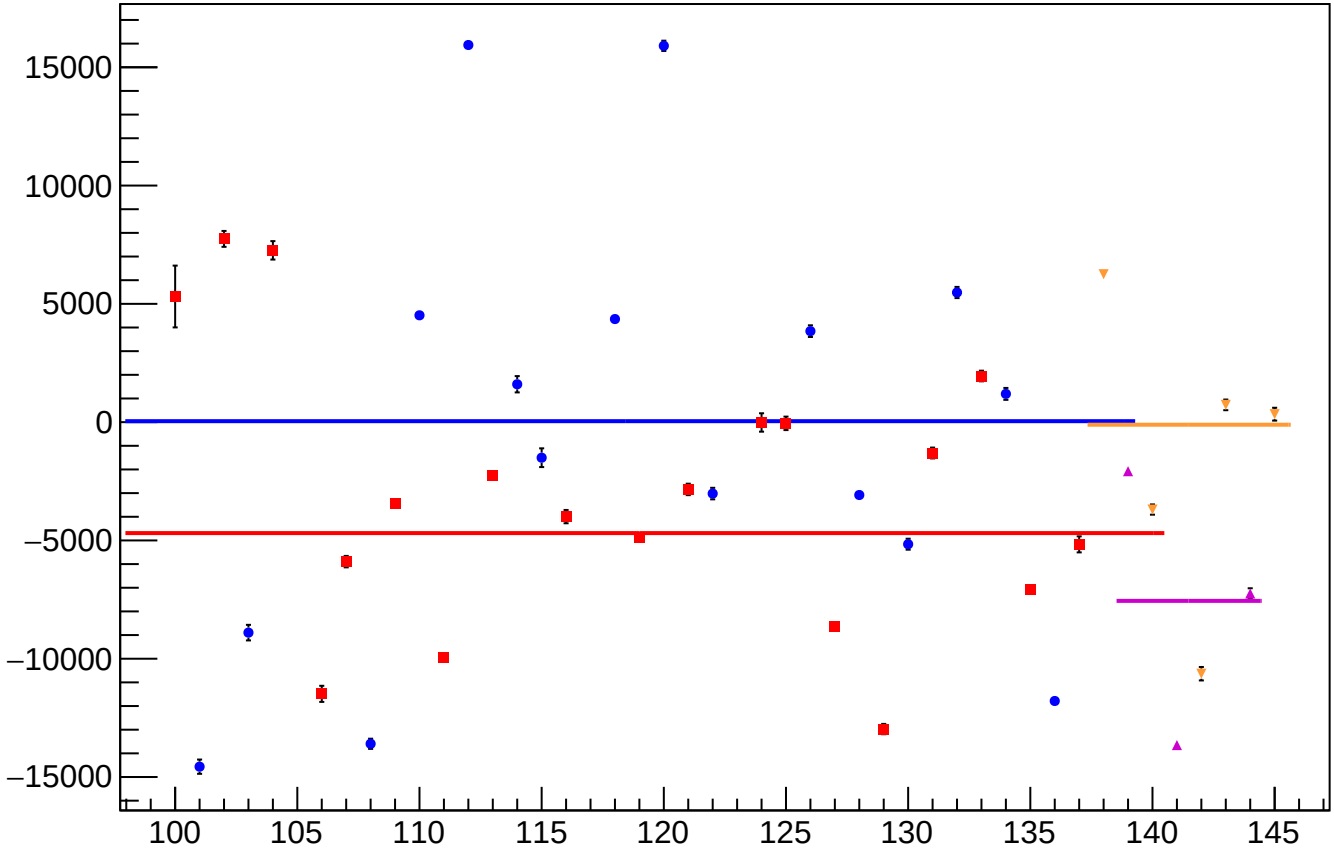
Right: 184.355+/-0.036 $\chi^2$/NDF: 2031455.3/34

In: 183.773+/-0.043 $\chi^2$/NDF:885381.1/18

Out: 178.490+/-0.040 $\chi^2$/NDF:1312318.9/23

All: 180.920+/-0.029 $\chi^2$/NDF: 2205863.7/42

# asym_bpm0i02WS_mean vs Slug, Sign Corrected




Right In: 40.915+/-54.199 $\chi^2$/NDF: 30786.3/15

Left Out: -108.420+/-102.163 $\chi^2$/NDF:2827.6/4

Right Out: -4689.710+/-52.095 $\chi^2$/NDF: 7795.7/18

Left In: -7555.031+/-115.432 $\chi^2$/NDF:1818.5/2

Left: -3379.305+/-76.503 $\chi^2$/NDF: 6979.7/7

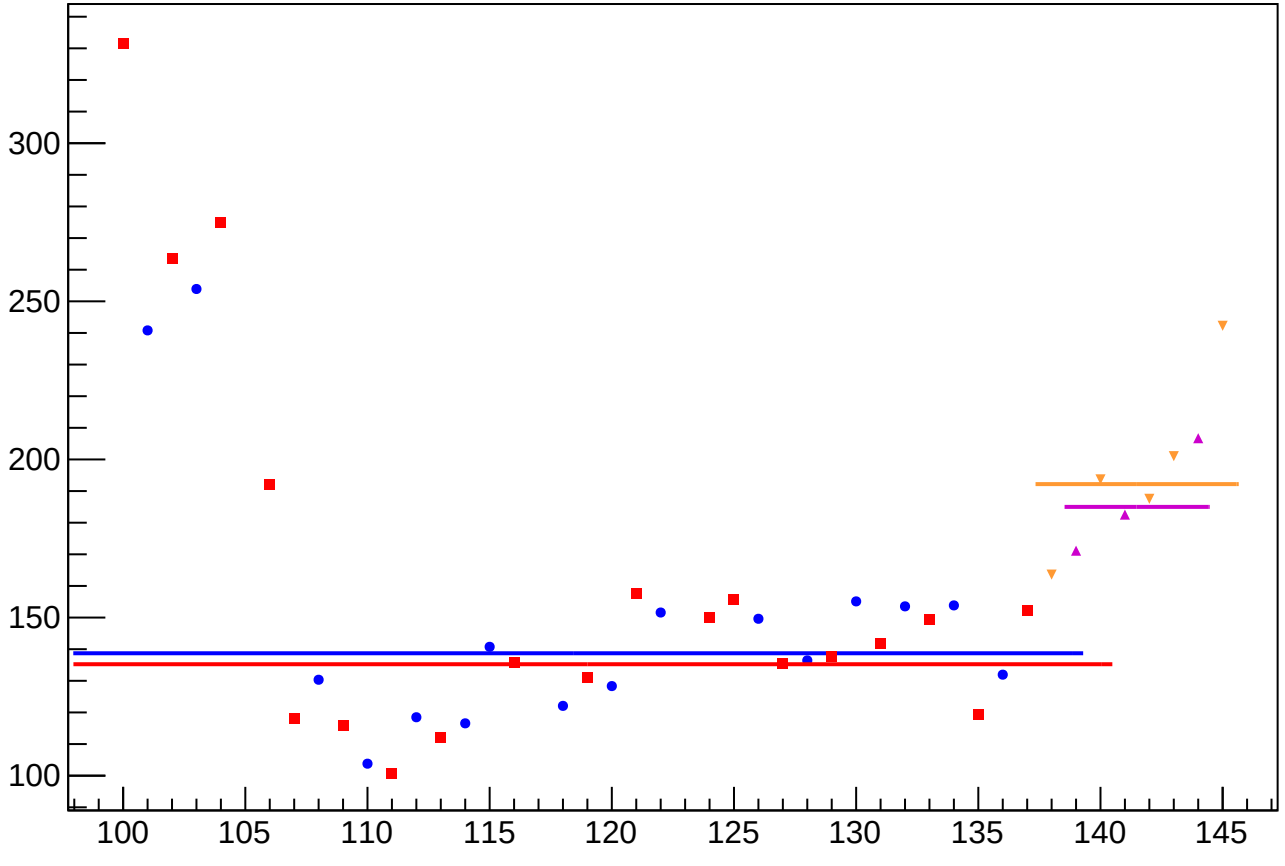
Right: -2417.983+/-37.558 $\chi^2$/NDF: 42541.9/34

In: -1331.178+/-49.060 $\chi^2$/NDF:36152.8/18

Out: -3744.307+/-46.410 $\chi^2$/NDF:12219.2/23

All: -2604.683+/-33.715 $\chi^2$/NDF: 49648.8/42

# asym_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 138.712+/-0.038 $\chi^2$/NDF: 657791.3/15

Left Out: 192.202+/-0.072 $\chi^2$/NDF:119068.6/4

Right Out: 135.245+/-0.037 $\chi^2$/NDF: 890024.8/18

Left In: 184.998+/-0.082 $\chi^2$/NDF:30670.9/2

Left: 189.038+/-0.054 $\chi^2$/NDF: 154107.2/7

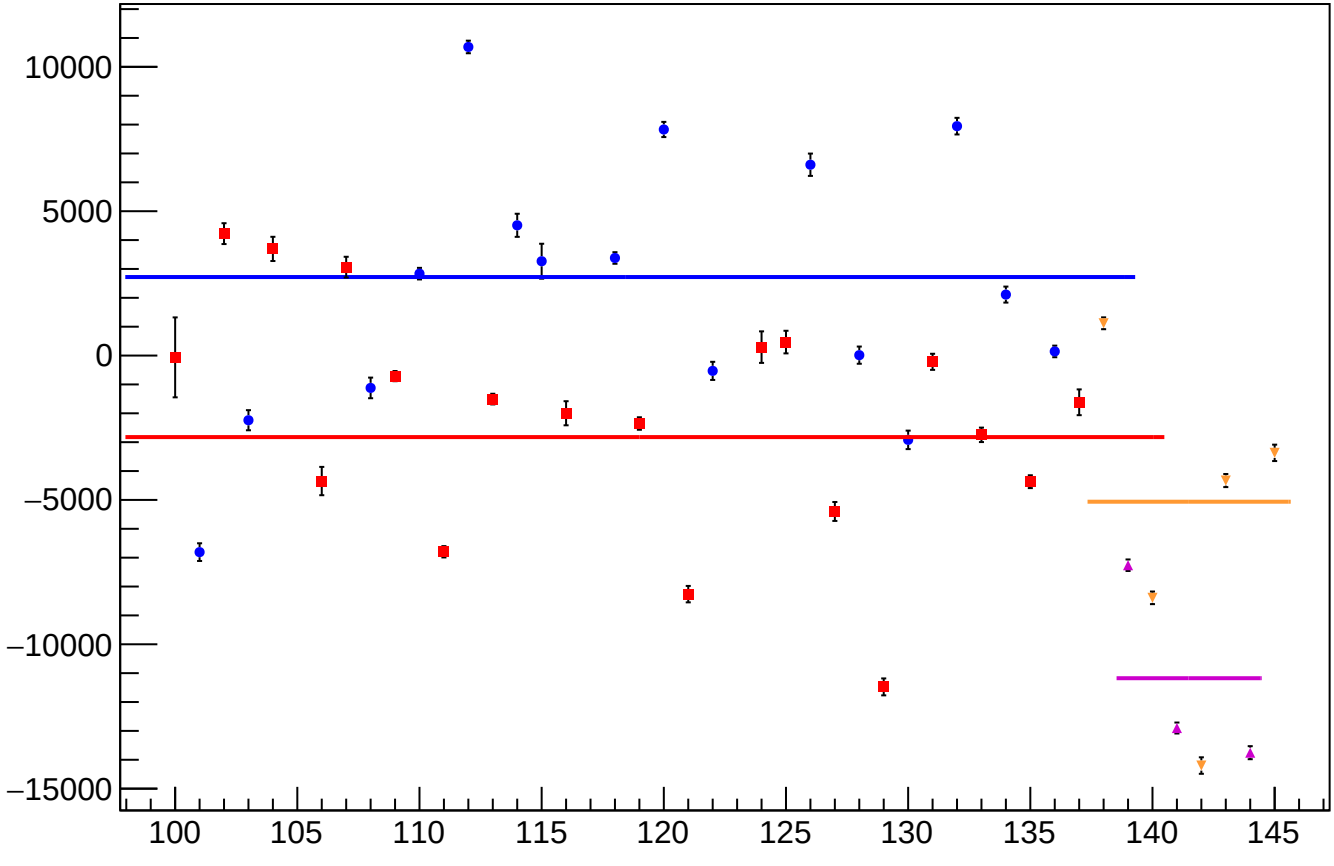
Right: 136.910+/-0.027 $\chi^2$/NDF: 1552069.4/34

In: 147.073+/-0.035 $\chi^2$/NDF:951948.0/18

Out: 146.999+/-0.033 $\chi^2$/NDF:1502443.6/23

All: 147.034+/-0.024 $\chi^2$/NDF: 2454393.9/42

# asym_bpm0i02aWS_mean vs Slug, Sign Corrected




Right In: 2719.896+/-69.247 $\chi^2$/NDF: 4129.3/15

Left Out: -5061.976+/-106.143 $\chi^2$/NDF:2206.3/4

Right Out: -2823.679+/-64.850 $\chi^2$/NDF: 3062.8/18

Left In: -11175.302+/-117.395 $\chi^2$/NDF:598.6/2

Left: -7811.714+/-78.733 $\chi^2$/NDF: 4296.9/7

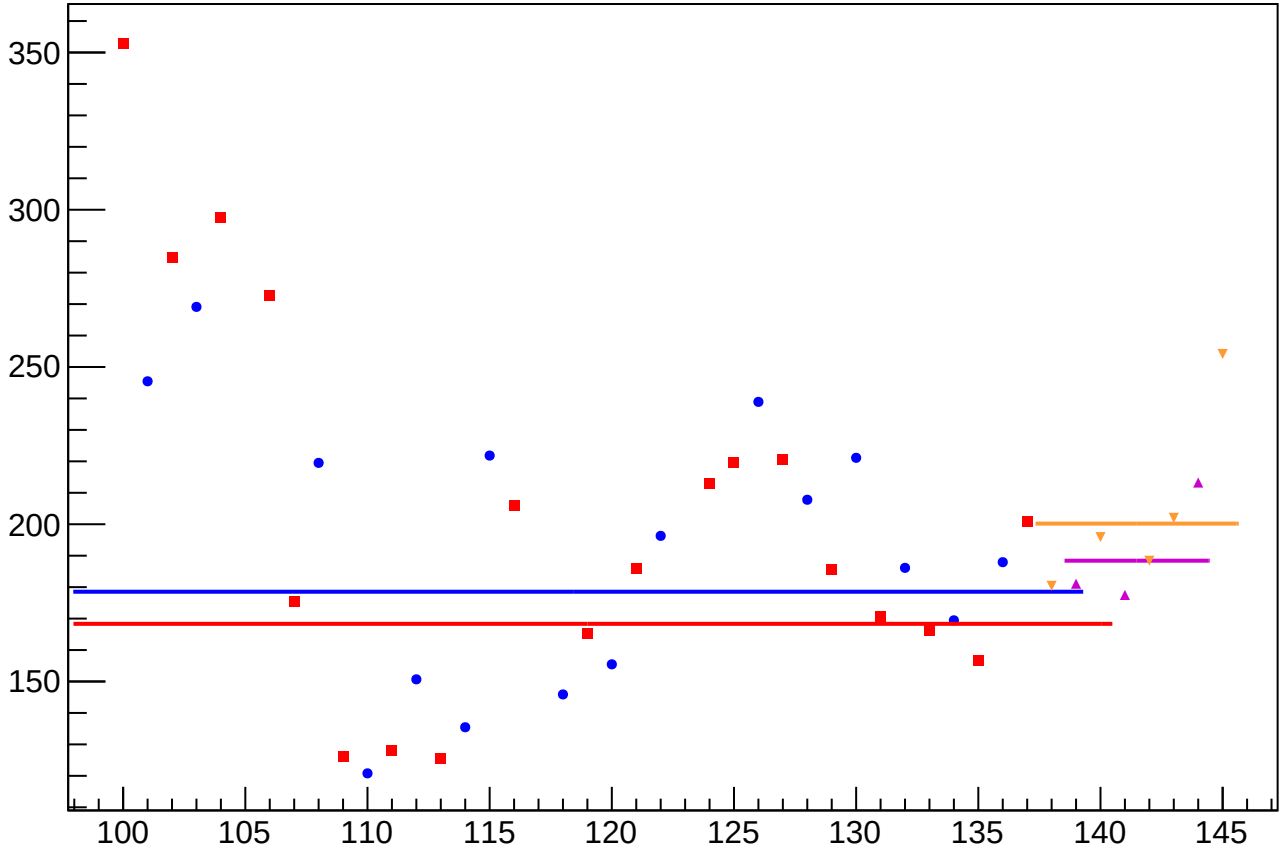
Right: -233.460+/-47.334 $\chi^2$/NDF: 10606.3/34

In: -866.827+/-59.644 $\chi^2$/NDF:15121.3/18

Out: -3432.086+/-55.339 $\chi^2$/NDF:5592.8/23

All: -2245.362+/-40.567 $\chi^2$/NDF: 21708.2/42

# asym_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 178.541+/-0.049 $\chi^2$/NDF: 674566.0/15

Left Out: 200.204+/-0.075 $\chi^2$/NDF:94946.8/4

Right Out: 168.335+/-0.046 $\chi^2$/NDF: 979485.9/18

Left In: 188.409+/-0.083 $\chi^2$/NDF:33476.2/2

Left: 194.899+/-0.056 $\chi^2$/NDF: 139531.5/7

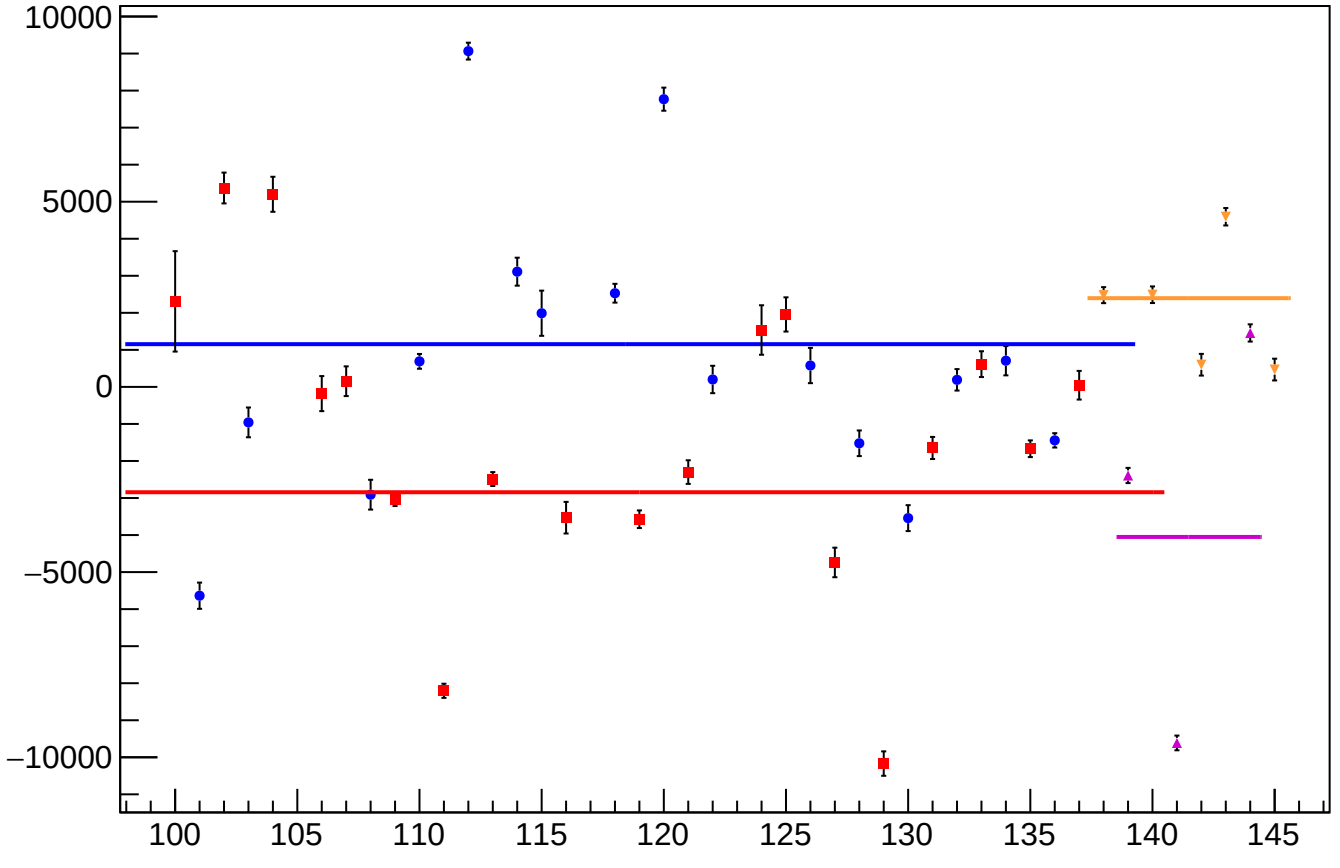
Right: 173.104+/-0.033 $\chi^2$/NDF: 1677198.9/34

In: 181.088+/-0.042 $\chi^2$/NDF:718526.6/18

Out: 176.997+/-0.039 $\chi^2$/NDF:1205724.9/23

All: 178.890+/-0.029 $\chi^2$/NDF: 1929307.6/42

# asym_bpm0i05WS_mean vs Slug, Sign Corrected




Right In: 1153.823+/-75.957 $\chi^2$/NDF: 2655.3/15

Left Out: 2395.439+/-110.109 $\chi^2$/NDF:168.2/4

Right Out: -2843.895+/-69.139 $\chi^2$/NDF: 2453.1/18

Left In: -4050.917+/-121.771 $\chi^2$/NDF:1407.4/2

Left: -504.364+/-81.671 $\chi^2$/NDF: 3117.4/7

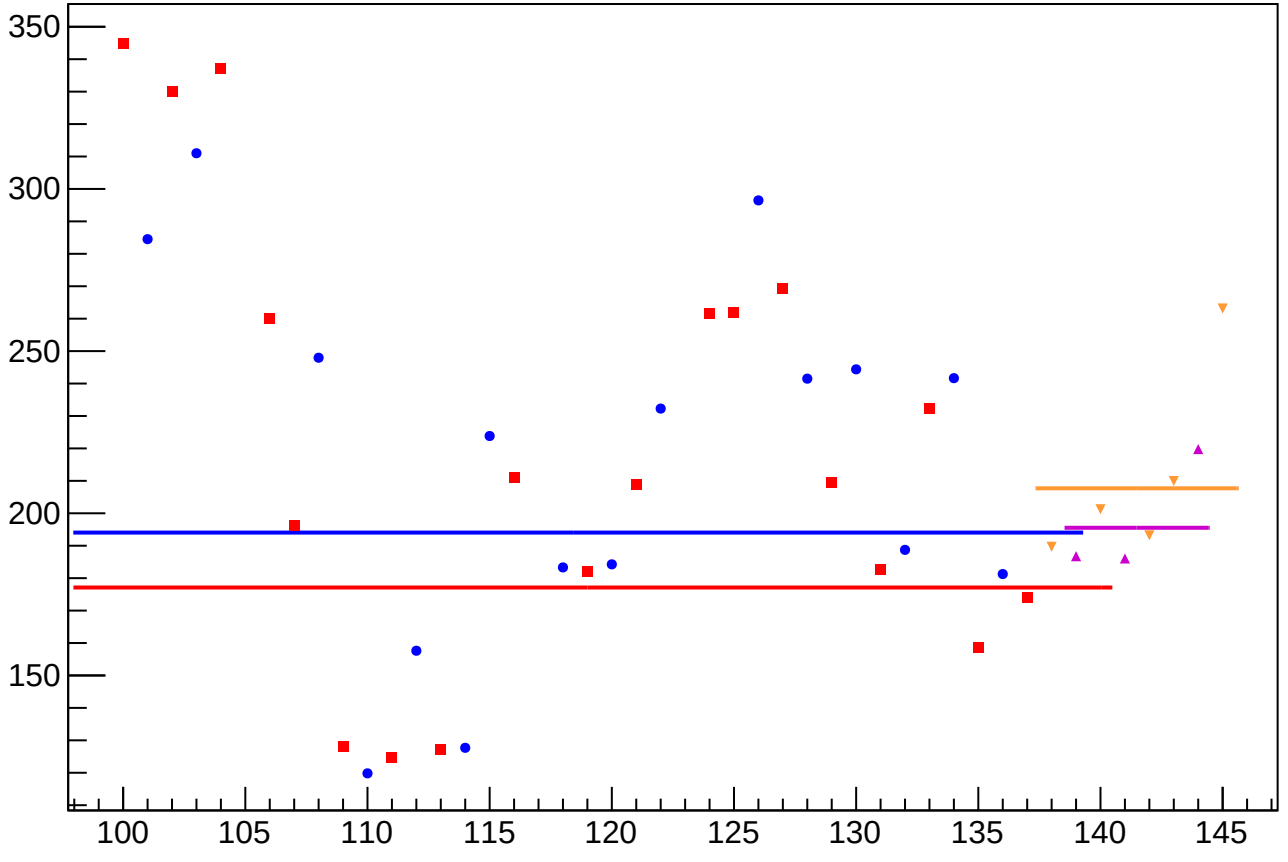
Right: -1032.468+/-51.129 $\chi^2$/NDF: 6623.4/34

In: -304.044+/-64.447 $\chi^2$/NDF:5377.9/18

Out: -1362.307+/-58.553 $\chi^2$/NDF:4245.2/23

All: -883.769+/-43.337 $\chi^2$/NDF: 9770.8/42

# asym_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 194.053+/-0.054 $\chi^2$/NDF: 965786.1/15

Left Out: 207.705+/-0.078 $\chi^2$/NDF:91838.9/4

Right Out: 177.115+/-0.049 $\chi^2$/NDF: 1359345.8/18

Left In: 195.534+/-0.086 $\chi^2$/NDF:29890.8/2

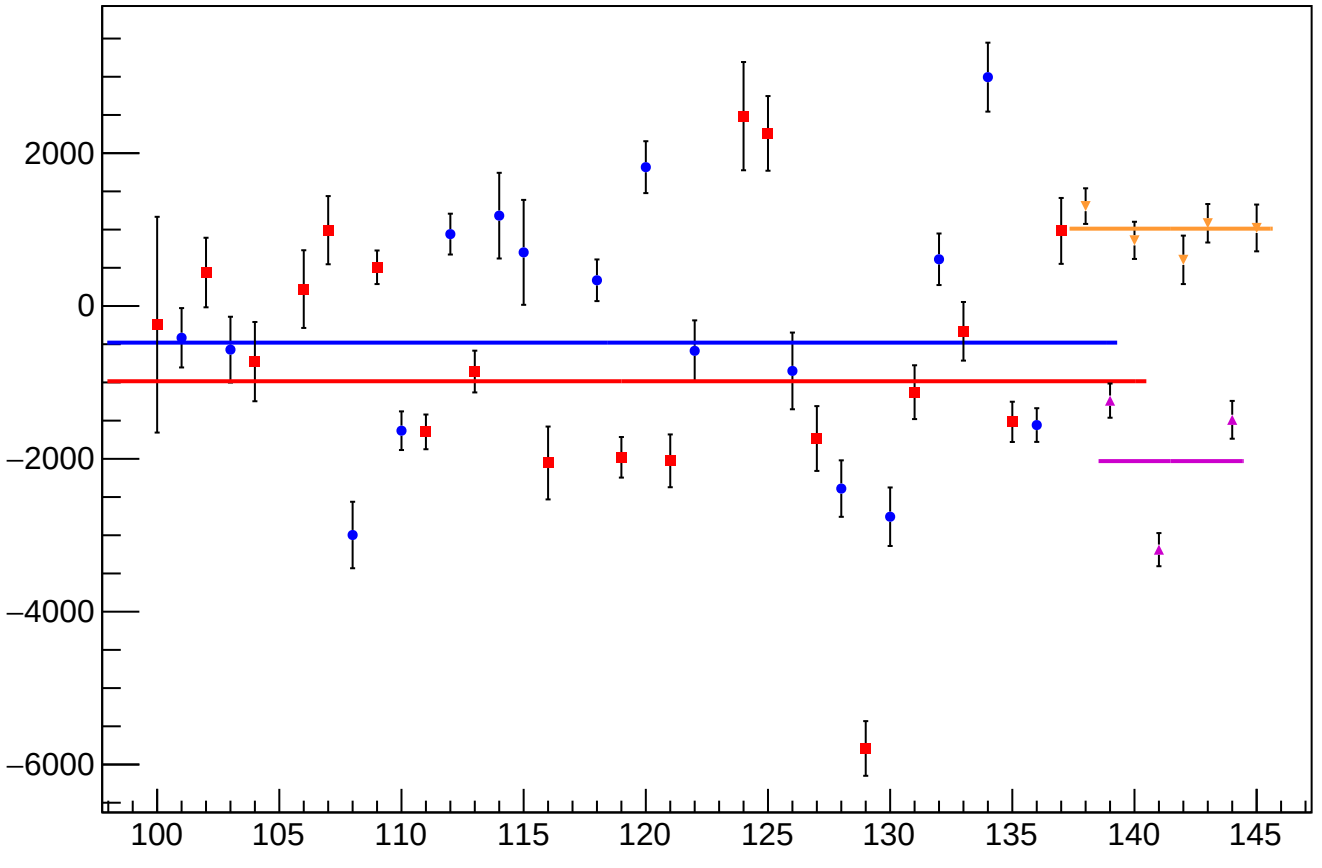
Left: 202.230+/-0.058 $\chi^2$/NDF: 132723.3/7

Right: 184.790+/-0.036 $\chi^2$/NDF: 2379520.9/34

In: 194.468+/-0.046 $\chi^2$/NDF:995889.8/18

Out: 185.765+/-0.041 $\chi^2$/NDF:1561898.6/23

All: 189.701+/-0.031 $\chi^2$/NDF: 2577765.0/42




Right In: -479.302+/-86.685 $\chi^2$/NDF: 305.4/15

Left Out: 1012.099+/-118.099 $\chi^2$/NDF:3.7/4

Right Out: -984.498+/-80.945 $\chi^2$/NDF: 398.1/18

Left In: -2029.548+/-131.776 $\chi^2$/NDF:45.8/2

Left: -342.729+/-87.948 $\chi^2$/NDF: 345.0/7

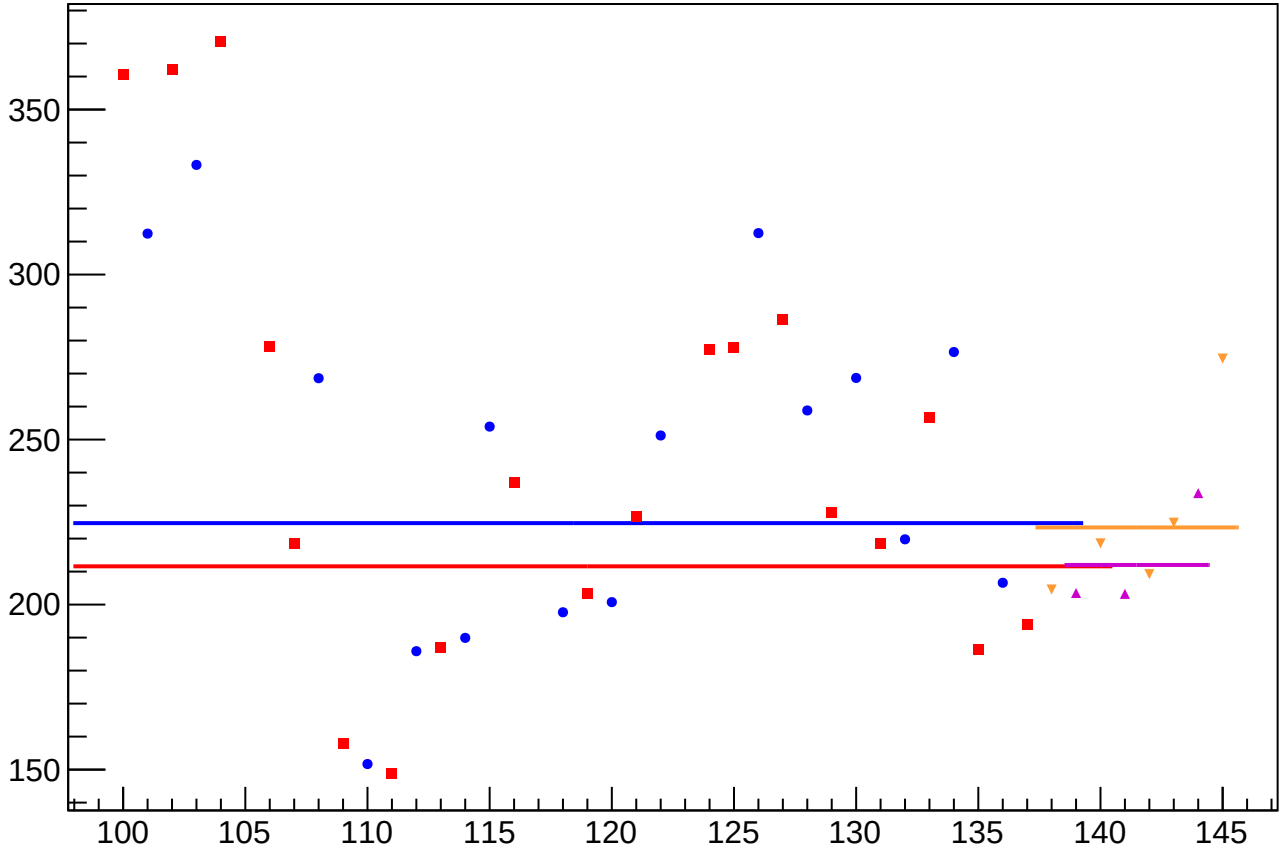
Right: -749.177+/-59.162 $\chi^2$/NDF: 721.7/34

In: -947.522+/-72.421 $\chi^2$/NDF:447.9/18

Out: -346.335+/-66.768 $\chi^2$/NDF:596.3/23

All: -622.552+/-49.089 $\chi^2$/NDF: 1081.5/42

# asym_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 224.683+/-0.061 $\chi^2$/NDF: 653193.4/15

Left Out: 223.377+/-0.084 $\chi^2$/NDF:73723.1/4

Right Out: 211.595+/-0.057 $\chi^2$/NDF: 932902.5/18

Left In: 212.007+/-0.093 $\chi^2$/NDF:21636.0/2

Left: 218.312+/-0.062 $\chi^2$/NDF: 103615.4/7

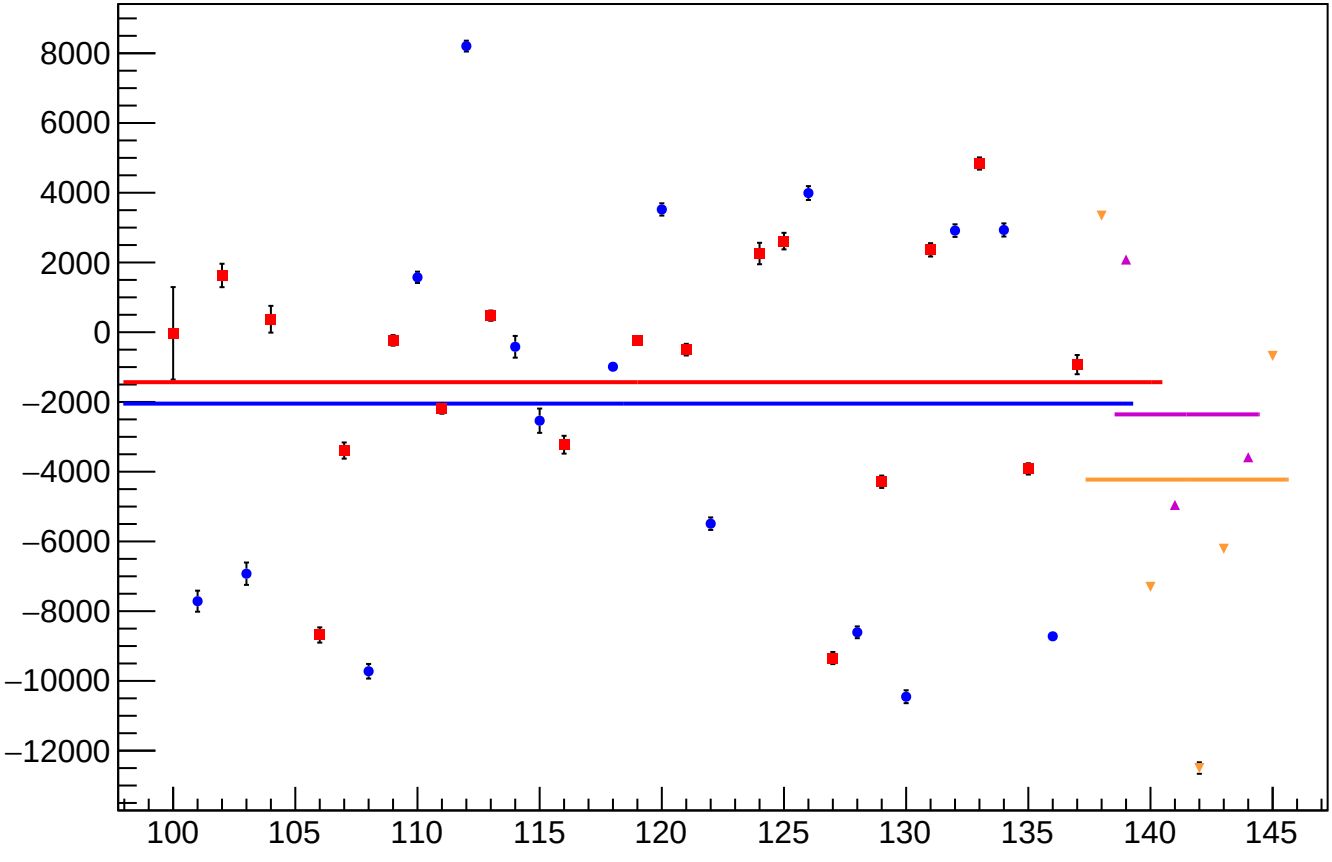
Right: 217.691+/-0.042 $\chi^2$/NDF: 1610450.2/34

In: 220.854+/-0.051 $\chi^2$/NDF:687745.0/18

Out: 215.361+/-0.047 $\chi^2$/NDF:1020168.3/23

All: 217.885+/-0.035 $\chi^2$/NDF: 1714134.3/42

# asym_bpm1i02WS_mean vs Slug, Sign Corrected




Right In: -2047.267+/-46.722 $\chi^2$/NDF: 16709.1/15

Left Out: -4226.315+/-60.029 $\chi^2$/NDF:7508.8/4

Right Out: -1432.909+/-44.729 $\chi^2$/NDF: 6387.8/18

Left In: -2356.719+/-69.363 $\chi^2$/NDF:1828.0/2

Left: -3425.687+/-45.391 $\chi^2$/NDF: 9752.2/7

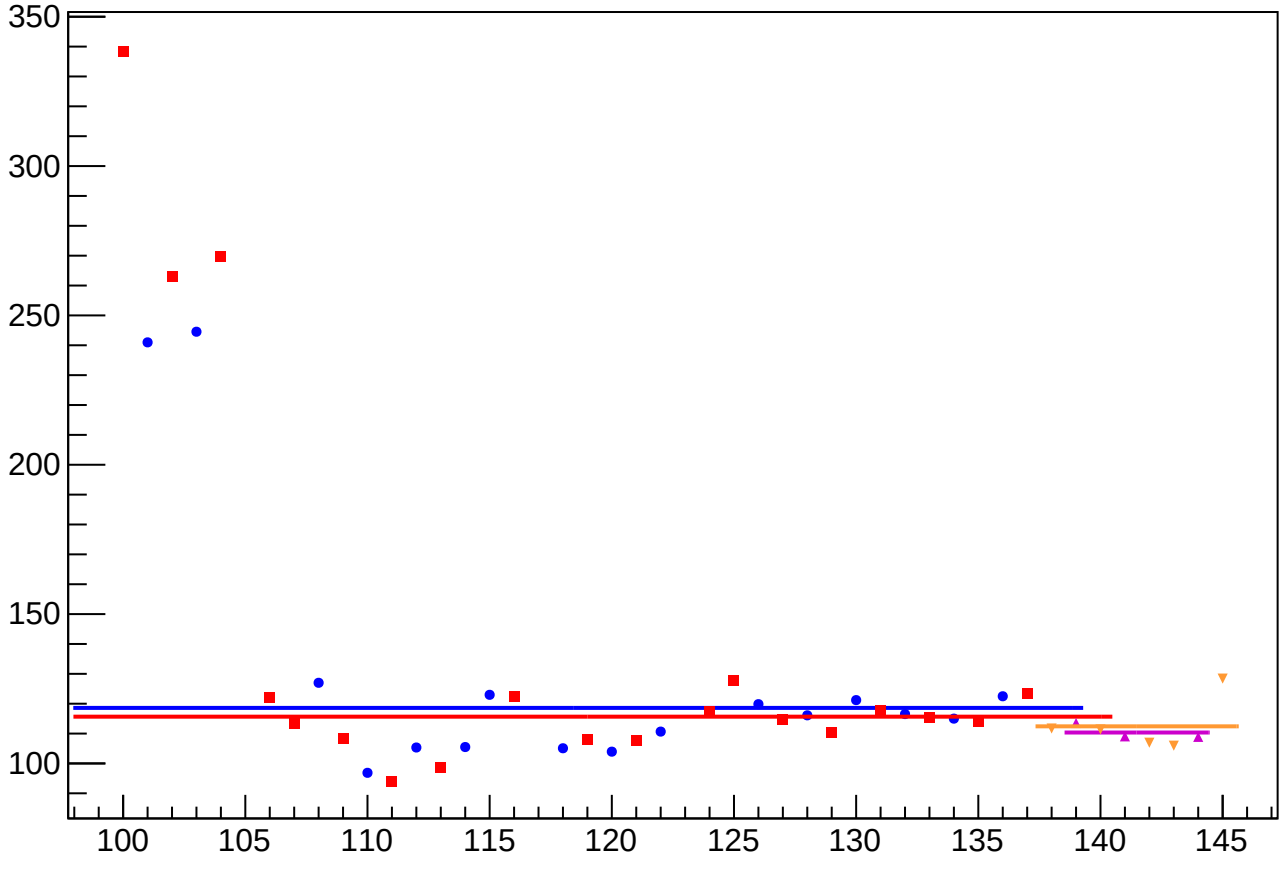
Right: -1726.707+/-32.310 $\chi^2$/NDF: 23187.1/34

In: -2143.849+/-38.751 $\chi^2$/NDF:18550.9/18

Out: -2430.152+/-35.867 $\chi^2$/NDF:15288.9/23

All: -2298.049+/-26.322 $\chi^2$/NDF: 33869.2/42

# asym_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 118.596+/-0.033 $\chi^2$/NDF: 734158.7/15

Left Out: 112.422+/-0.042 $\chi^2$/NDF:32545.2/4

Right Out: 115.660+/-0.032 $\chi^2$/NDF: 864206.3/18

Left In: 110.353+/-0.049 $\chi^2$/NDF:1824.0/2

Left: 111.536+/-0.032 $\chi^2$/NDF: 35386.0/7

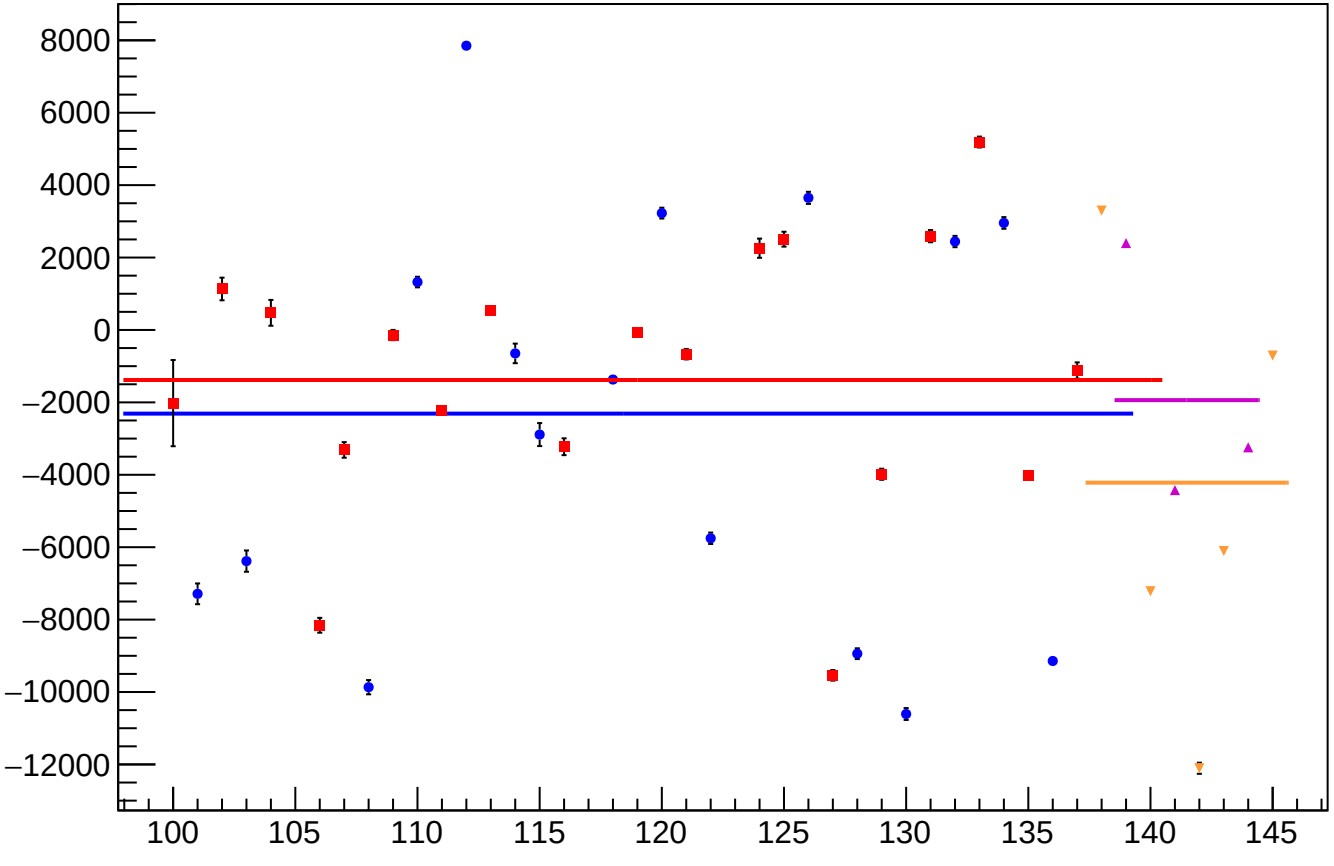
Right: 117.064+/-0.023 $\chi^2$/NDF: 1602486.6/34

In: 116.023+/-0.027 $\chi^2$/NDF:755410.3/18

Out: 114.504+/-0.025 $\chi^2$/NDF:900493.3/23

All: 115.205+/-0.019 $\chi^2$/NDF: 1657560.1/42

# asym_bpm2i01WS_mean vs Slug, Sign Corrected




Right In: -2310.581+/-40.734 $\chi^2$/NDF: 21679.5/15

Left Out: -4217.627+/-55.080 $\chi^2$/NDF:8394.3/4

Right Out: -1382.178+/-39.342 $\chi^2$/NDF: 8578.9/18

Left In: -1938.341+/-62.741 $\chi^2$/NDF:2175.8/2

Left: -3225.570+/-41.393 $\chi^2$/NDF: 11315.5/7

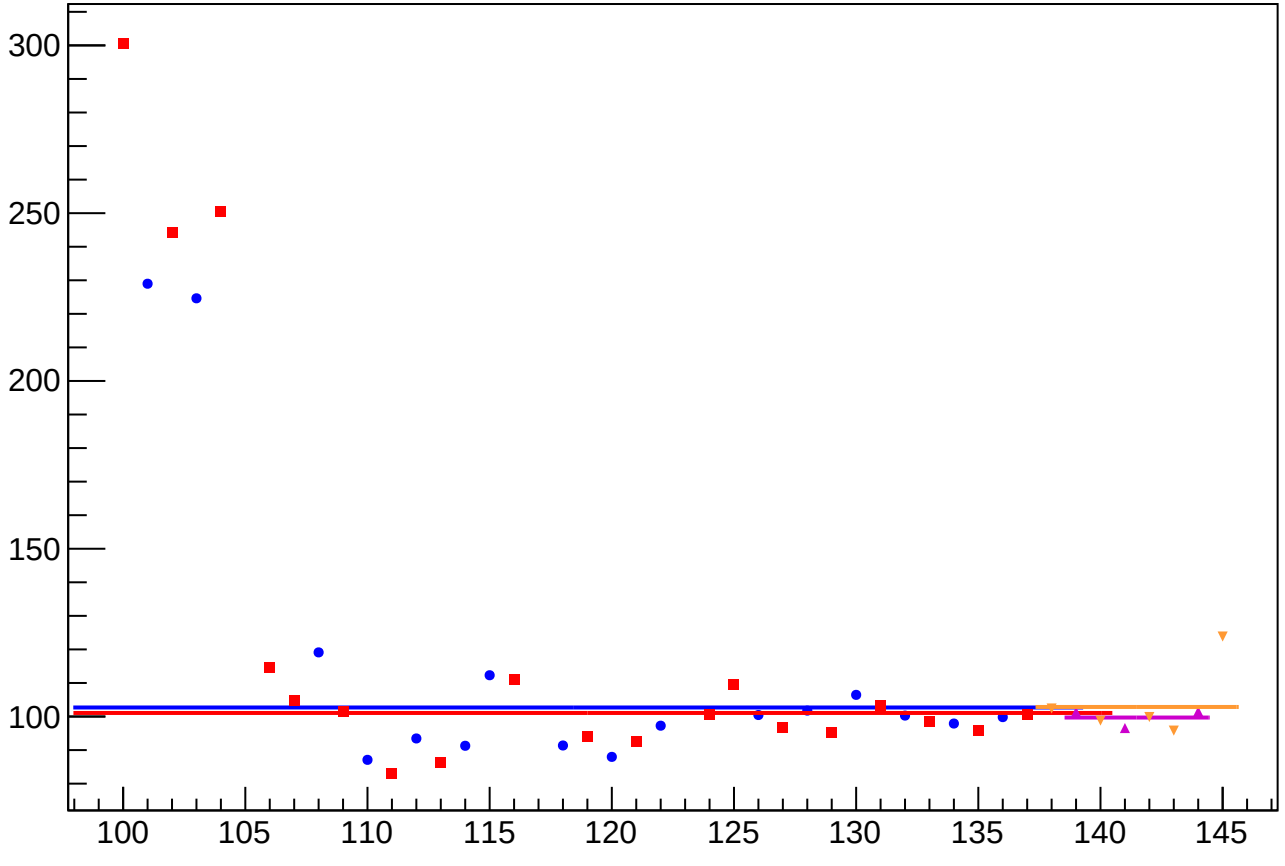
Right: -1830.238+/-28.298 $\chi^2$/NDF: 30527.1/34

In: -2200.202+/-34.165 $\chi^2$/NDF:23880.1/18

Out: -2340.063+/-32.014 $\chi^2$/NDF:18728.0/23

All: -2274.674+/-23.361 $\chi^2$/NDF: 42617.0/42

# asym_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 102.694+/-0.029 $\chi^2$/NDF: 825801.5/15

Left Out: 102.851+/-0.039 $\chi^2$/NDF:56898.8/4

Right Out: 101.063+/-0.028 $\chi^2$/NDF: 930458.1/18

Left In: 99.697+/-0.044 $\chi^2$/NDF:2810.0/2

Left: 101.478+/-0.029 $\chi^2$/NDF: 62564.4/7

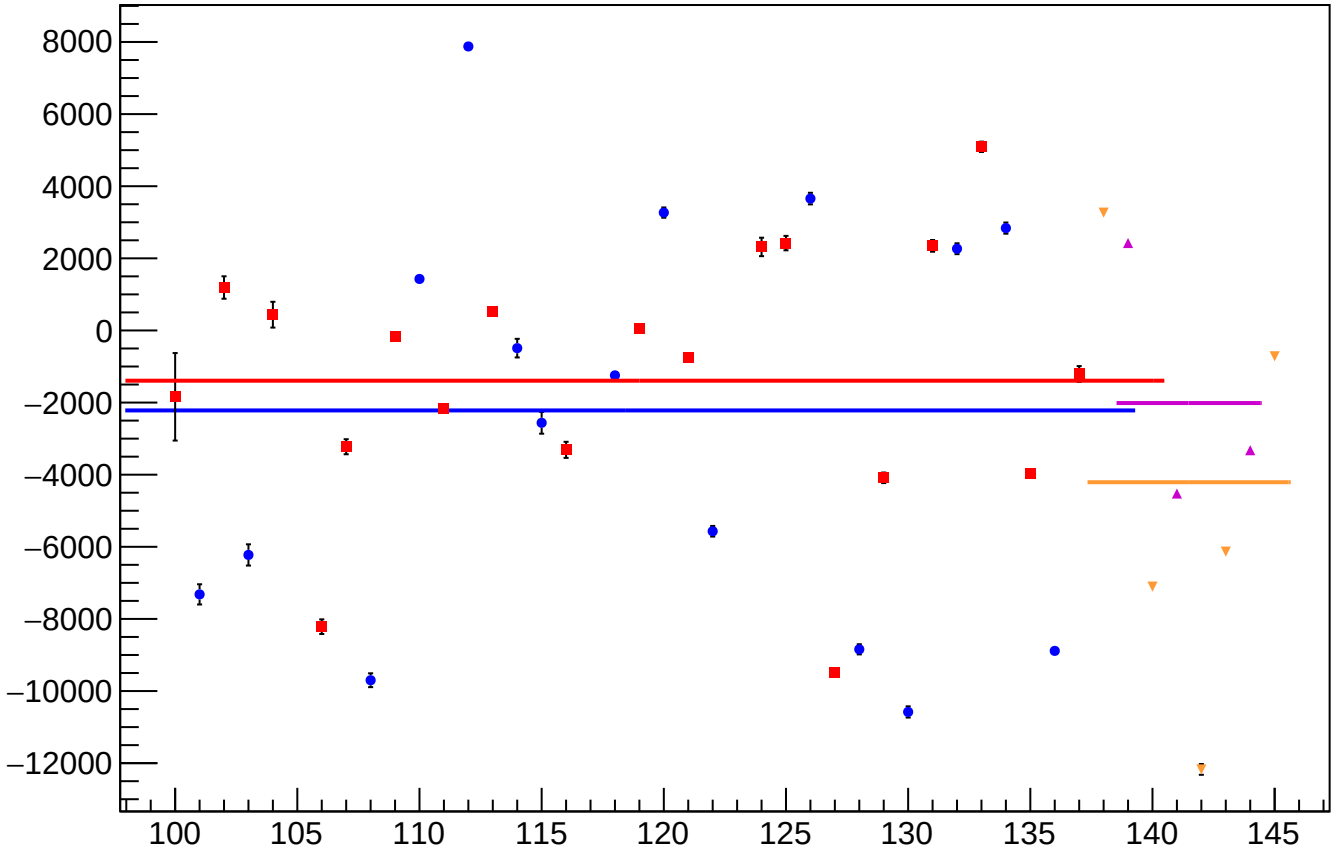
Right: 101.850+/-0.020 $\chi^2$/NDF: 1757917.4/34

In: 101.805+/-0.024 $\chi^2$/NDF:831821.8/18

Out: 101.667+/-0.023 $\chi^2$/NDF:988752.7/23

All: 101.732+/-0.017 $\chi^2$/NDF: 1820591.8/42

# asym_bpm2i02WS_mean vs Slug, Sign Corrected




Right In: -2218.049+/-39.039 $\chi^2$/NDF: 23040.7/15

Left Out: -4208.979+/-53.507 $\chi^2$/NDF:8925.2/4

Right Out: -1393.557+/-37.580 $\chi^2$/NDF: 9152.1/18

Left In: -2013.173+/-60.706 $\chi^2$/NDF:2408.6/2

Left: -3248.945+/-40.140 $\chi^2$/NDF: 12070.1/7

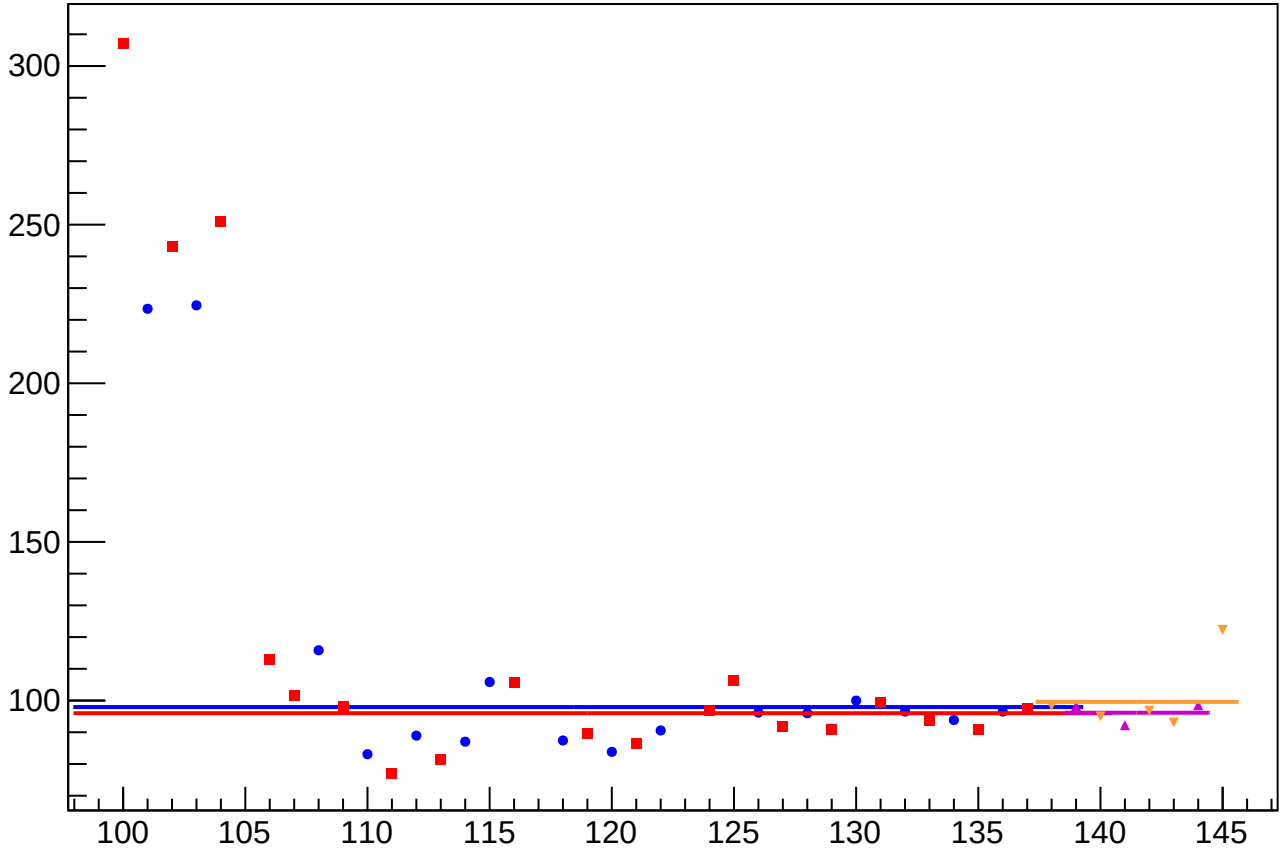
Right: -1790.108+/-27.074 $\chi^2$/NDF: 32424.3/34

In: -2158.110+/-32.835 $\chi^2$/NDF:25457.4/18

Out: -2323.577+/-30.753 $\chi^2$/NDF:19931.4/23

All: -2246.257+/-22.446 $\chi^2$/NDF: 45402.3/42

# asym_bpm2i02WS_rms vs Slug, Sign Corrected




Right In: 97.944+/-0.028 $\chi^2$/NDF: 868148.4/15

Left Out: 99.575+/-0.038 $\chi^2$/NDF:65849.9/4

Right Out: 96.005+/-0.027 $\chi^2$/NDF: 1012287.0/18

Left In: 96.159+/-0.043 $\chi^2$/NDF:4817.4/2

Left: 98.082+/-0.028 $\chi^2$/NDF: 74231.8/7

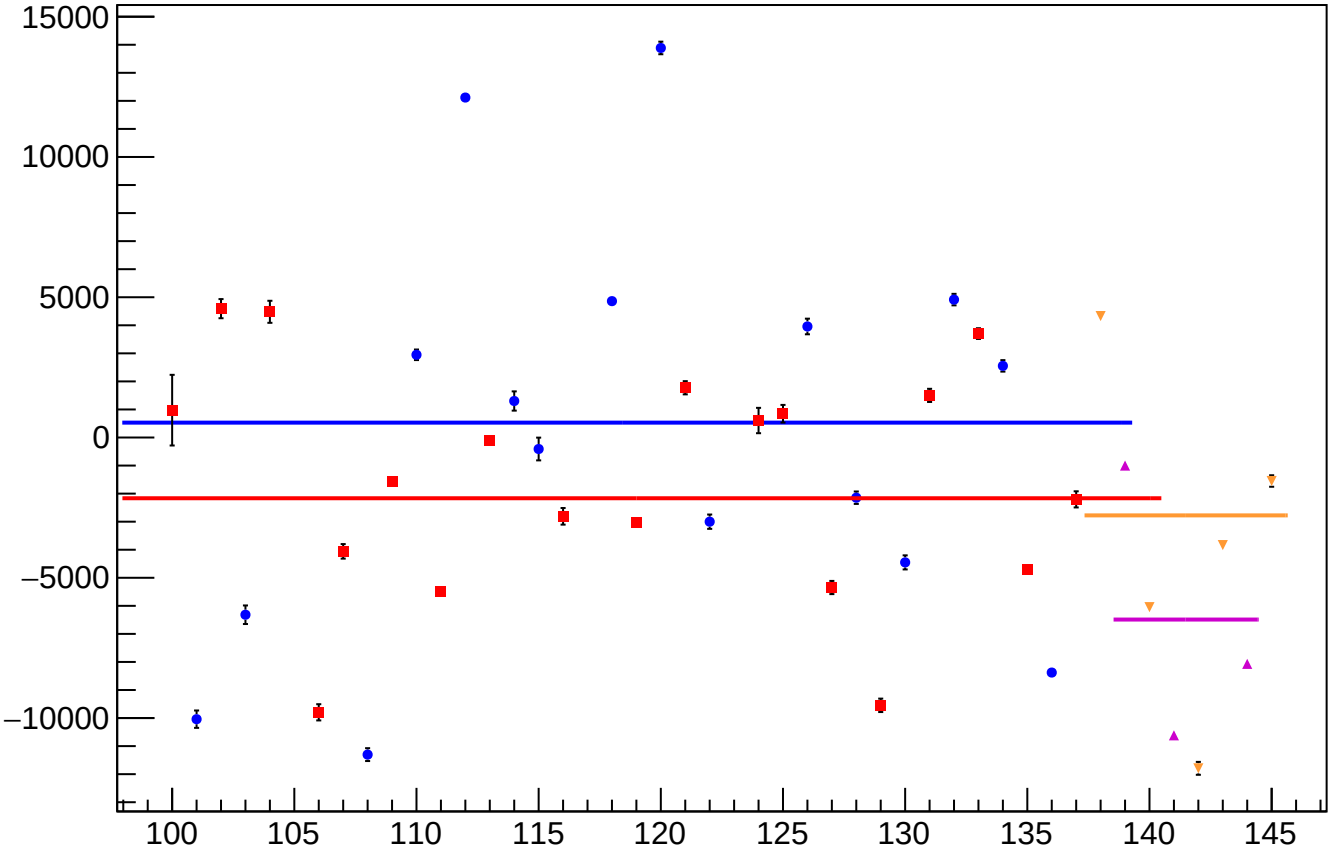
Right: 96.937+/-0.019 $\chi^2$/NDF: 1882996.0/34

In: 97.422+/-0.023 $\chi^2$/NDF:874188.7/18

Out: 97.184+/-0.022 $\chi^2$/NDF:1084100.5/23

All: 97.295+/-0.016 $\chi^2$/NDF: 1958344.9/42

# asym_bpm0i01WS_mean vs Slug, Sign Corrected




Right In: 530.568+/-54.855 $\chi^2$/NDF: 18587.6/15

Left Out: -2775.756+/-80.497 $\chi^2$/NDF:4057.3/4

Right Out: -2164.994+/-53.458 $\chi^2$/NDF: 4967.1/18

Left In: -6488.862+/-93.173 $\chi^2$/NDF:1962.5/2

Left: -4362.720+/-60.912 $\chi^2$/NDF: 6929.2/7

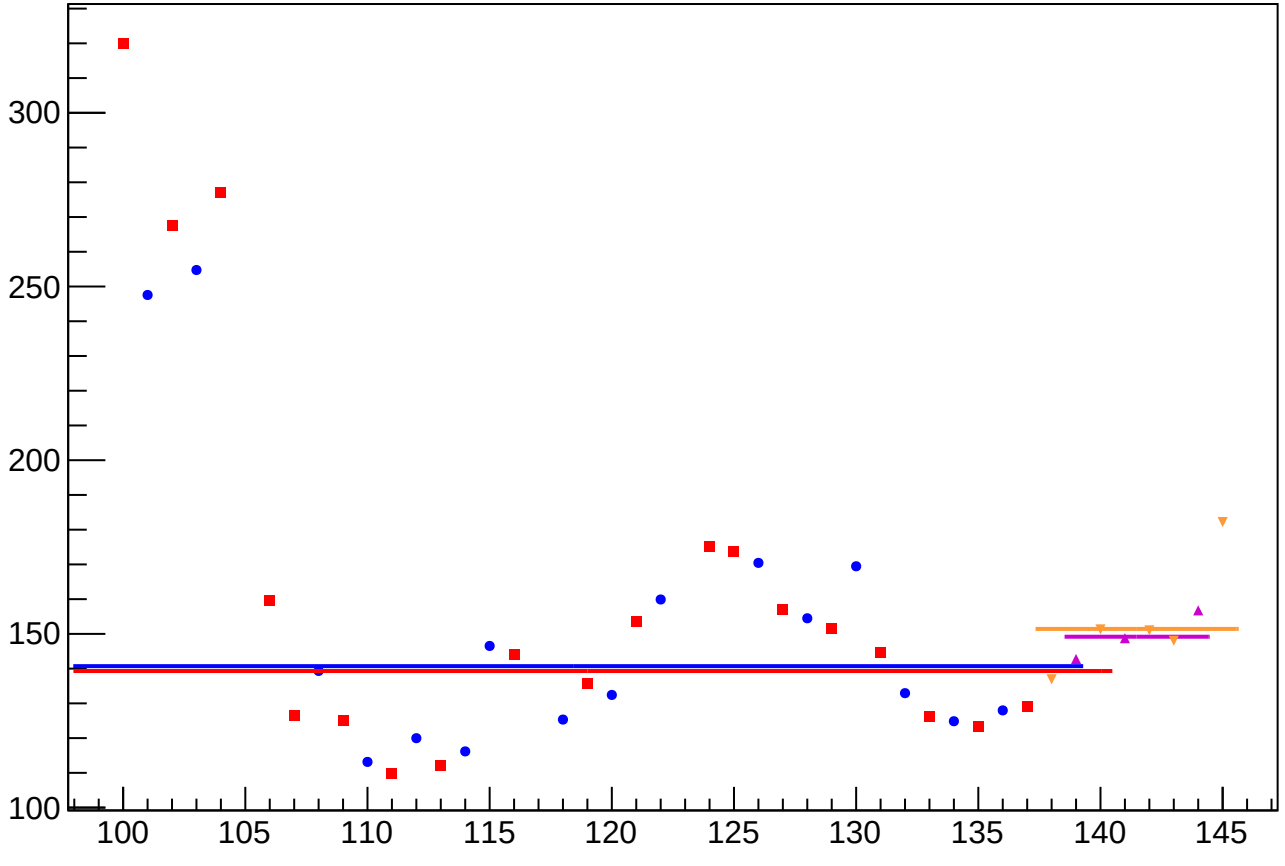
Right: -851.965+/-38.285 $\chi^2$/NDF: 24793.2/34

In: -1276.208+/-47.271 $\chi^2$/NDF:24764.9/18

Out: -2351.920+/-44.532 $\chi^2$/NDF:9064.4/23

All: -1846.121+/-32.414 $\chi^2$/NDF: 34103.6/42

# asym_bpm0i01WS_rms vs Slug, Sign Corrected




Right In: 140.715+/-0.039 $\chi^2$/NDF: 675618.7/15

Left Out: 151.437+/-0.057 $\chi^2$/NDF:63233.4/4

Right Out: 139.317+/-0.038 $\chi^2$/NDF: 802317.0/18

Left In: 149.187+/-0.066 $\chi^2$/NDF:7430.0/2

Left: 150.475+/-0.043 $\chi^2$/NDF: 71331.1/7

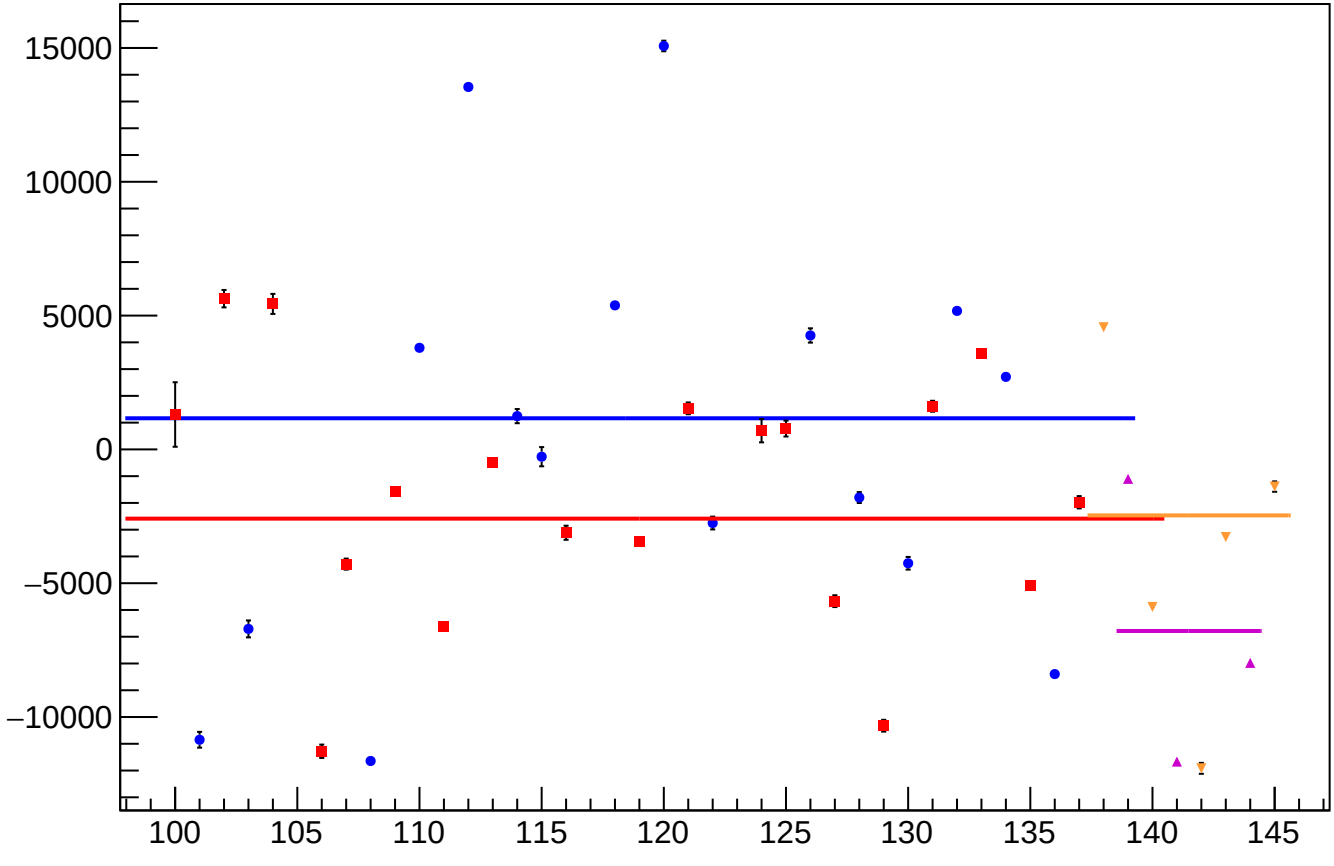
Right: 139.998+/-0.027 $\chi^2$/NDF: 1478602.2/34

In: 142.896+/-0.033 $\chi^2$/NDF:695327.0/18

Out: 143.026+/-0.031 $\chi^2$/NDF:897011.7/23

All: 142.965+/-0.023 $\chi^2$/NDF: 1592346.8/42

# asym_bpm0i01aWS_mean vs Slug, Sign Corrected




Right In: 1162.980+/-45.930 $\chi^2$/NDF: 30754.3/15

Left Out: -2466.512+/-71.416 $\chi^2$/NDF:5467.6/4

Right Out: -2586.755+/-44.256 $\chi^2$/NDF: 8099.7/18

Left In: -6785.242+/-81.774 $\chi^2$/NDF:3048.6/2

Left: -4335.202+/-53.790 $\chi^2$/NDF: 10098.5/7

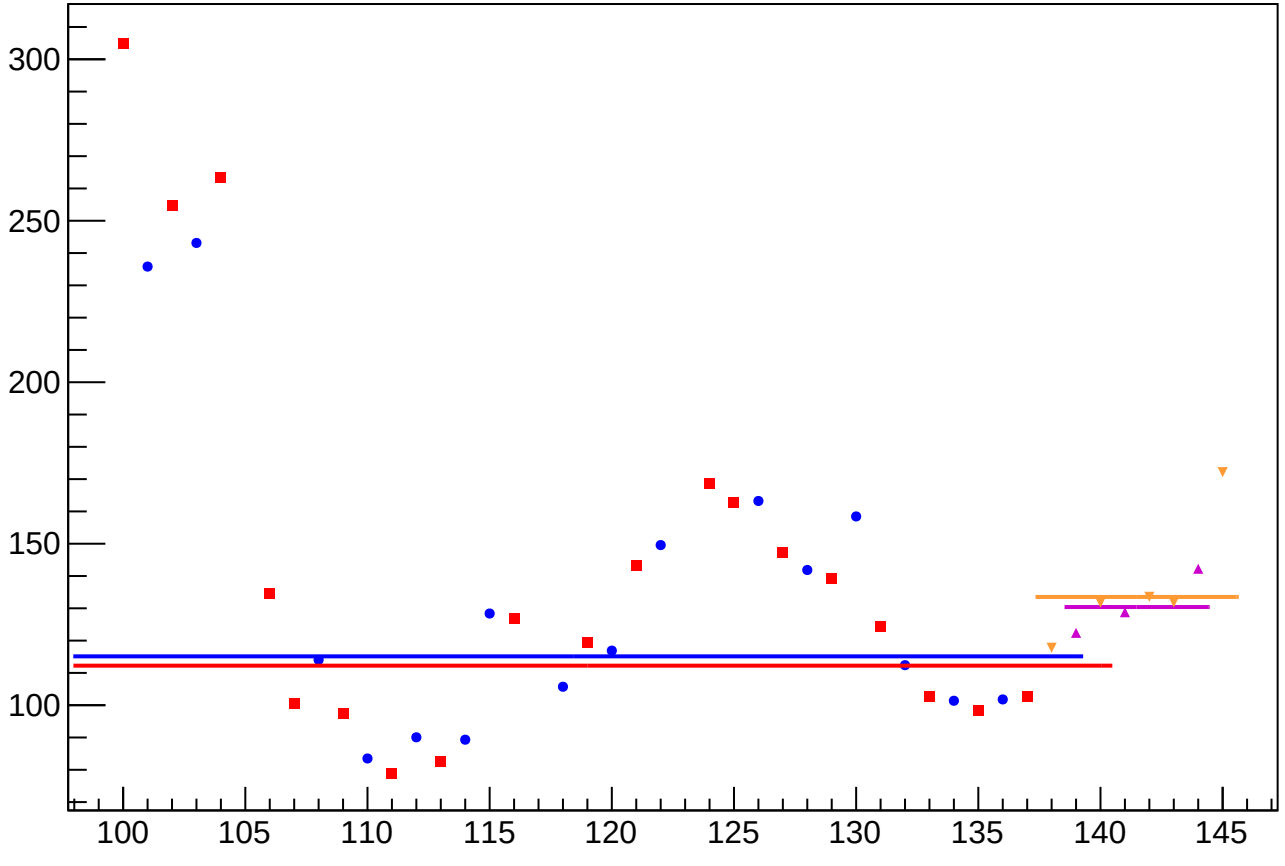
Right: -781.454+/-31.869 $\chi^2$/NDF: 42310.2/34

In: -743.154+/-40.046 $\chi^2$/NDF:40984.6/18

Out: -2553.391+/-37.619 $\chi^2$/NDF:13569.4/23

All: -1704.787+/-27.418 $\chi^2$/NDF: 55639.5/42

# asym_bpm0i01aWS_rms vs Slug, Sign Corrected




Right In: 115.125+/-0.032 $\chi^2$/NDF: 1112987.2/15

Left Out: 133.517+/-0.050 $\chi^2$/NDF:107183.3/4

Right Out: 112.241+/-0.031 $\chi^2$/NDF: 1328156.6/18

Left In: 130.397+/-0.058 $\chi^2$/NDF:19363.3/2

Left: 132.167+/-0.038 $\chi^2$/NDF: 128198.2/7

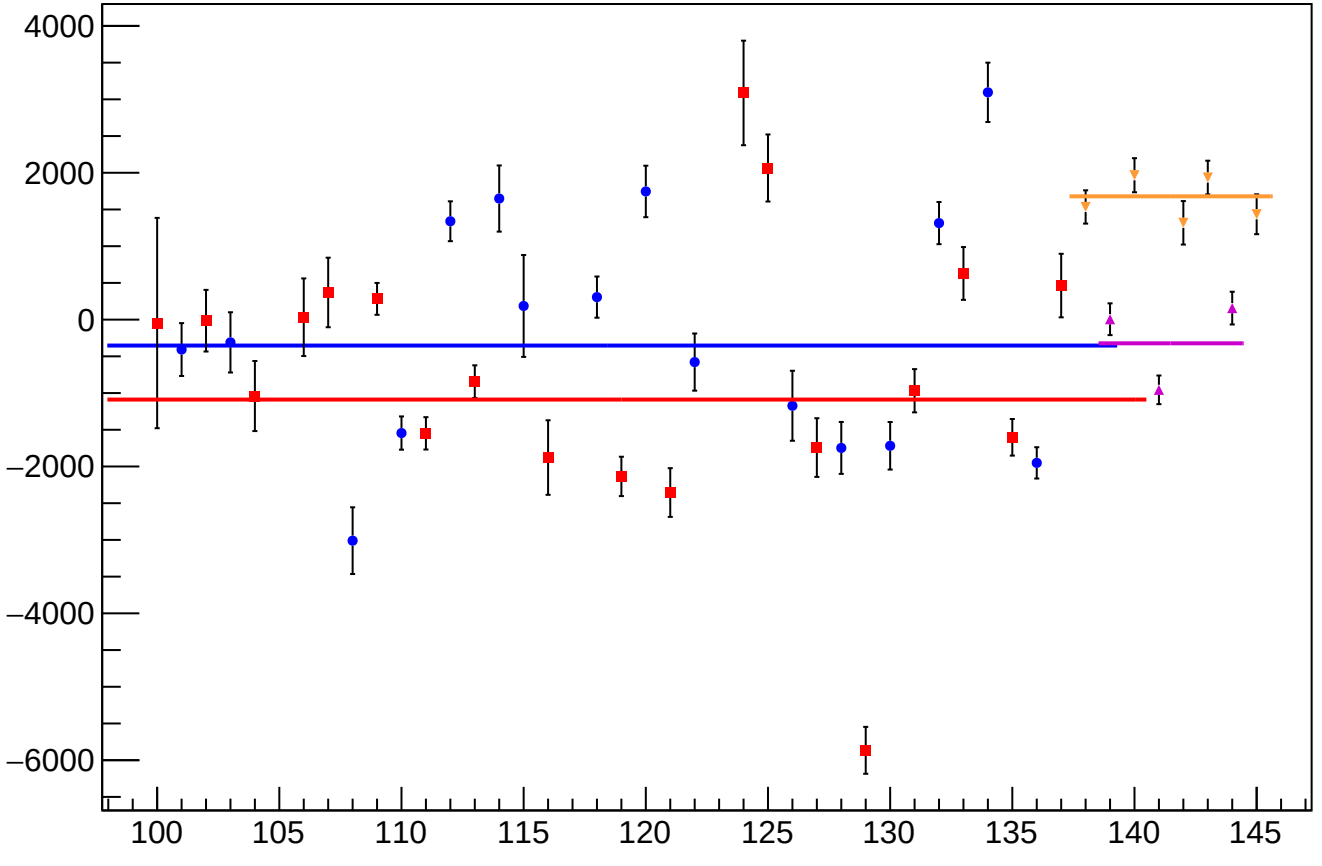
Right: 113.630+/-0.023 $\chi^2$/NDF: 2445233.6/34

In: 118.788+/-0.028 $\chi^2$/NDF:1185378.2/18

Out: 118.145+/-0.027 $\chi^2$/NDF:1563595.5/23

All: 118.446+/-0.019 $\chi^2$/NDF: 2749247.8/42

# asym_bpm0l01WS_mean vs Slug, Sign Corrected




Right In: -353.129+/-82.136 $\chi^2$/NDF: 361.8/15

Left Out: 1678.837+/-110.433 $\chi^2$/NDF:5.5/4

Right Out: -1088.752+/-76.444 $\chi^2$/NDF: 447.2/18

Left In: -322.567+/-121.446 $\chi^2$/NDF:17.5/2

Left: 772.979+/-81.704 $\chi^2$/NDF: 171.6/7

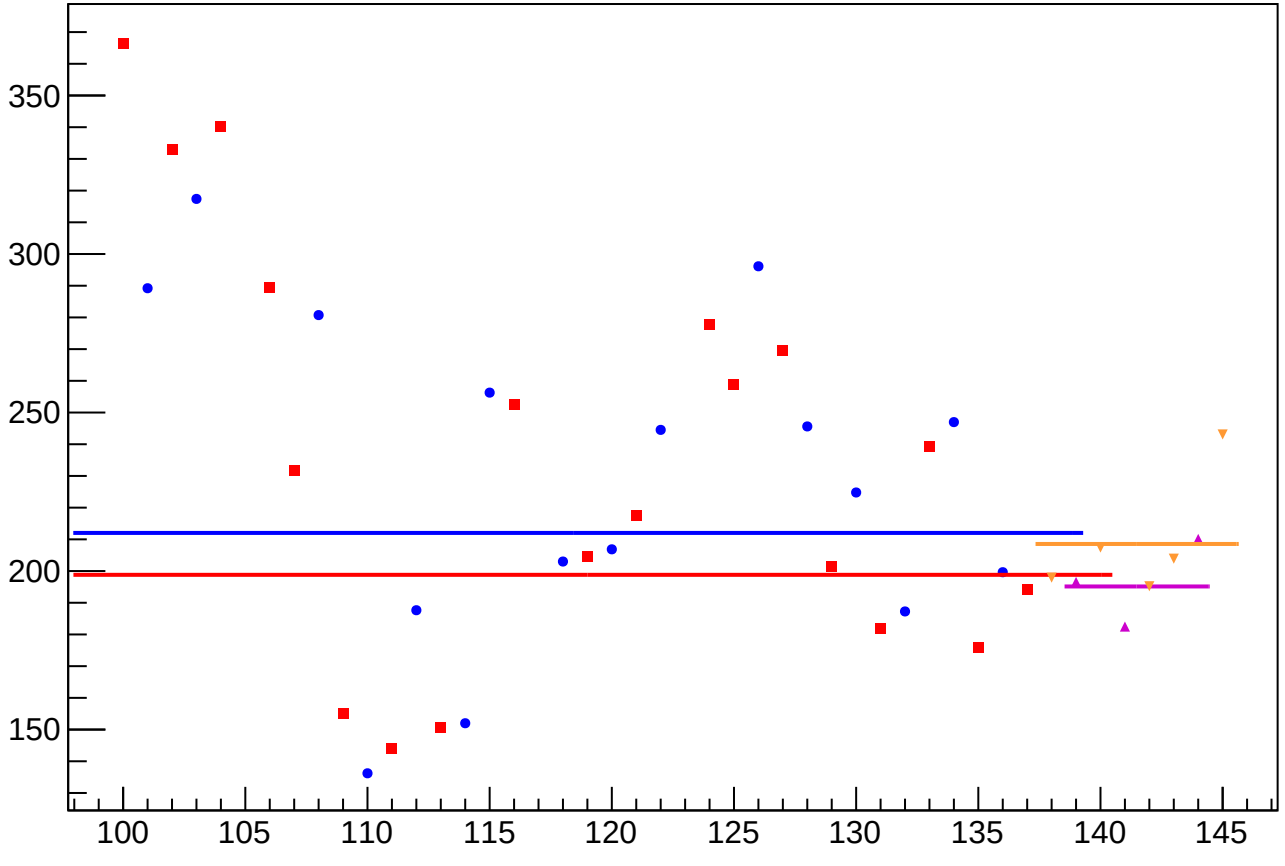
Right: -747.310+/-55.958 $\chi^2$/NDF: 852.0/34

In: -343.537+/-68.037 $\chi^2$/NDF:379.3/18

Out: -192.206+/-62.854 $\chi^2$/NDF:877.2/23

All: -261.889+/-46.168 $\chi^2$/NDF: 1259.3/42

# asym_bpm0l01WS_rms vs Slug, Sign Corrected




Right In: 212.027+/-0.058 $\chi^2$/NDF: 690358.0/15

Left Out: 208.543+/-0.078 $\chi^2$/NDF:41653.8/4

Right Out: 198.809+/-0.054 $\chi^2$/NDF: 974928.4/18

Left In: 195.138+/-0.086 $\chi^2$/NDF:17574.3/2

Left: 202.476+/-0.058 $\chi^2$/NDF: 72566.0/7

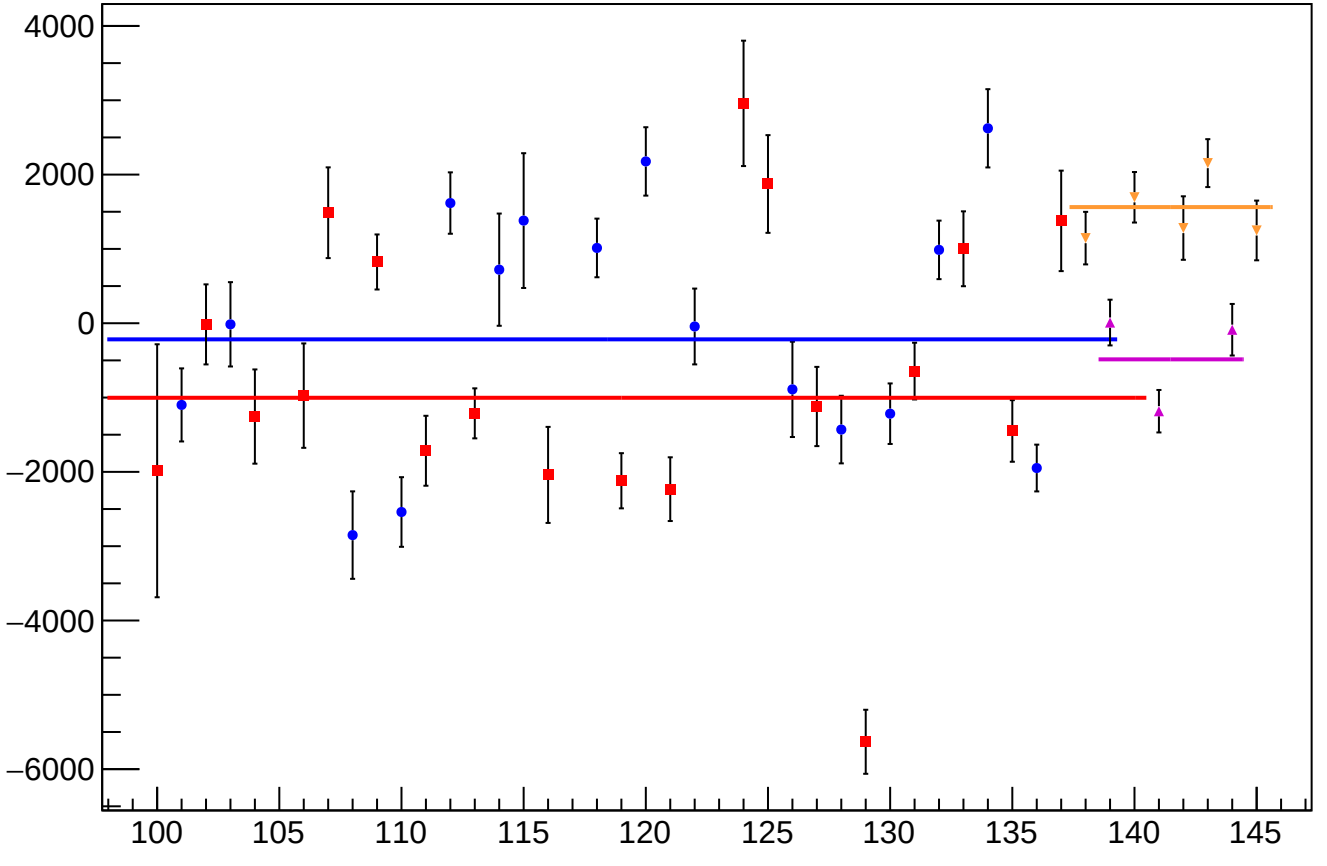
Right: 204.945+/-0.040 $\chi^2$/NDF: 1693041.6/34

In: 206.727+/-0.048 $\chi^2$/NDF:734471.8/18

Out: 201.963+/-0.044 $\chi^2$/NDF:1027087.3/23

All: 204.156+/-0.033 $\chi^2$/NDF: 1766850.2/42

# asym_bpm0l02WS_mean vs Slug, Sign Corrected




Right In: -216.948+/-117.887 $\chi^2$/NDF: 192.2/15

Left Out: 1562.760+/-162.320 $\chi^2$/NDF:6.0/4

Right Out: -1003.049+/-113.111 $\chi^2$/NDF: 254.3/18

Left In: -486.058+/-179.256 $\chi^2$/NDF:9.9/2

Left: 639.682+/-120.321 $\chi^2$/NDF: 87.6/7

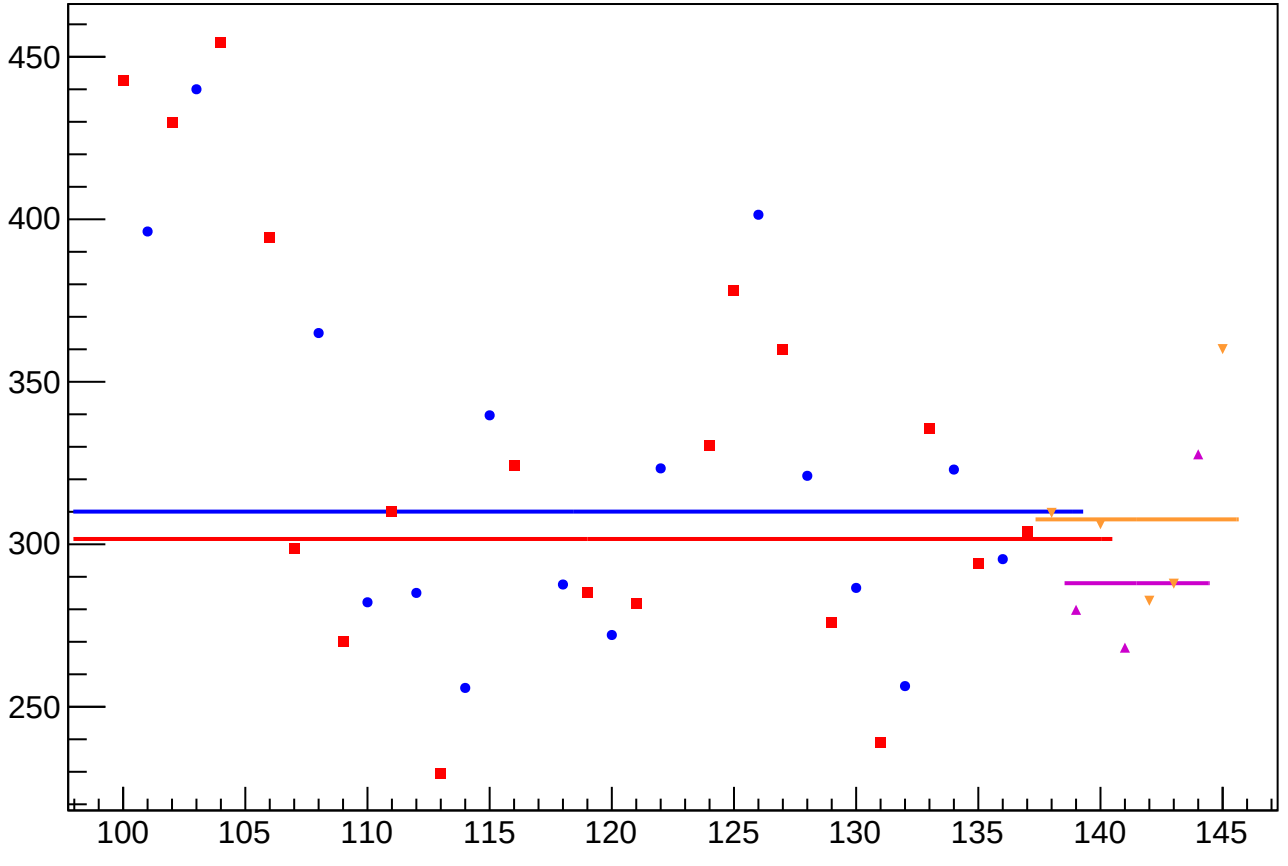
Right: -626.246+/-81.618 $\chi^2$/NDF: 469.7/34

In: -298.198+/-98.496 $\chi^2$/NDF:203.6/18

Out: -164.384+/-92.802 $\chi^2$/NDF:428.5/23

All: -227.311+/-67.544 $\chi^2$/NDF: 633.1/42

# asym_bpm0l02WS_rms vs Slug, Sign Corrected




Right In: 310.062+/-0.083 $\chi^2$/NDF: 323283.5/15

Left Out: 307.669+/-0.115 $\chi^2$/NDF:48516.3/4

Right Out: 301.637+/-0.080 $\chi^2$/NDF: 519888.9/18

Left In: 288.031+/-0.127 $\chi^2$/NDF:37172.6/2

Left: 298.821+/-0.085 $\chi^2$/NDF: 98877.1/7

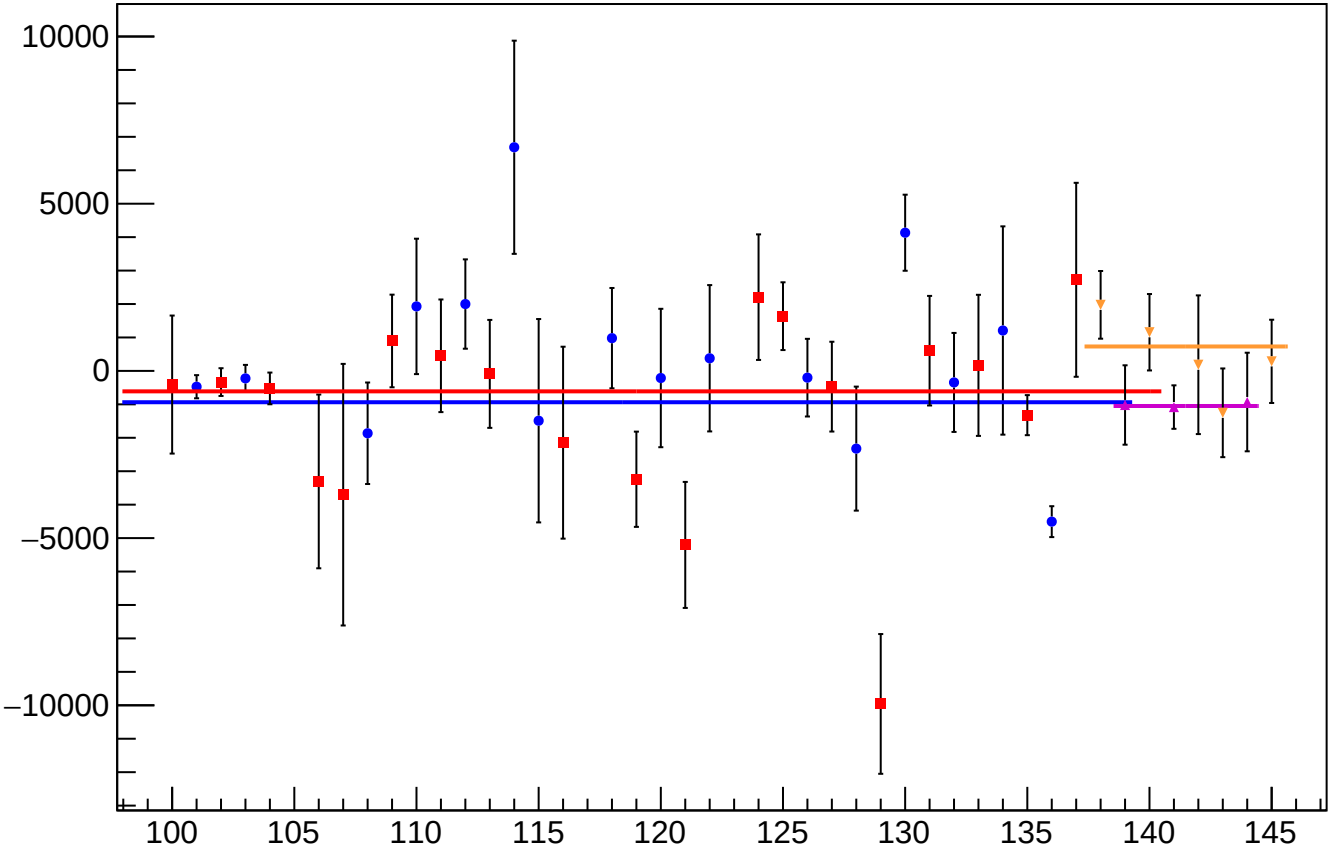
Right: 305.675+/-0.058 $\chi^2$/NDF: 848490.9/34

In: 303.410+/-0.070 $\chi^2$/NDF:381544.0/18

Out: 303.609+/-0.066 $\chi^2$/NDF:570264.3/23

All: 303.515+/-0.048 $\chi^2$/NDF: 951812.6/42

# asym_bpm0l03WS_mean vs Slug, Sign Corrected




Right In: -936.949+/-204.717 $\chi^2$/NDF: 101.2/15

Left Out: 730.355+/-560.054 $\chi^2$/NDF:4.1/4

Right Out: -611.668+/-233.144 $\chi^2$/NDF: 44.1/18

Left In: -1049.513+/-531.752 $\chi^2$/NDF:0.0/2

Left: -205.686+/-385.623 $\chi^2$/NDF: 9.4/7

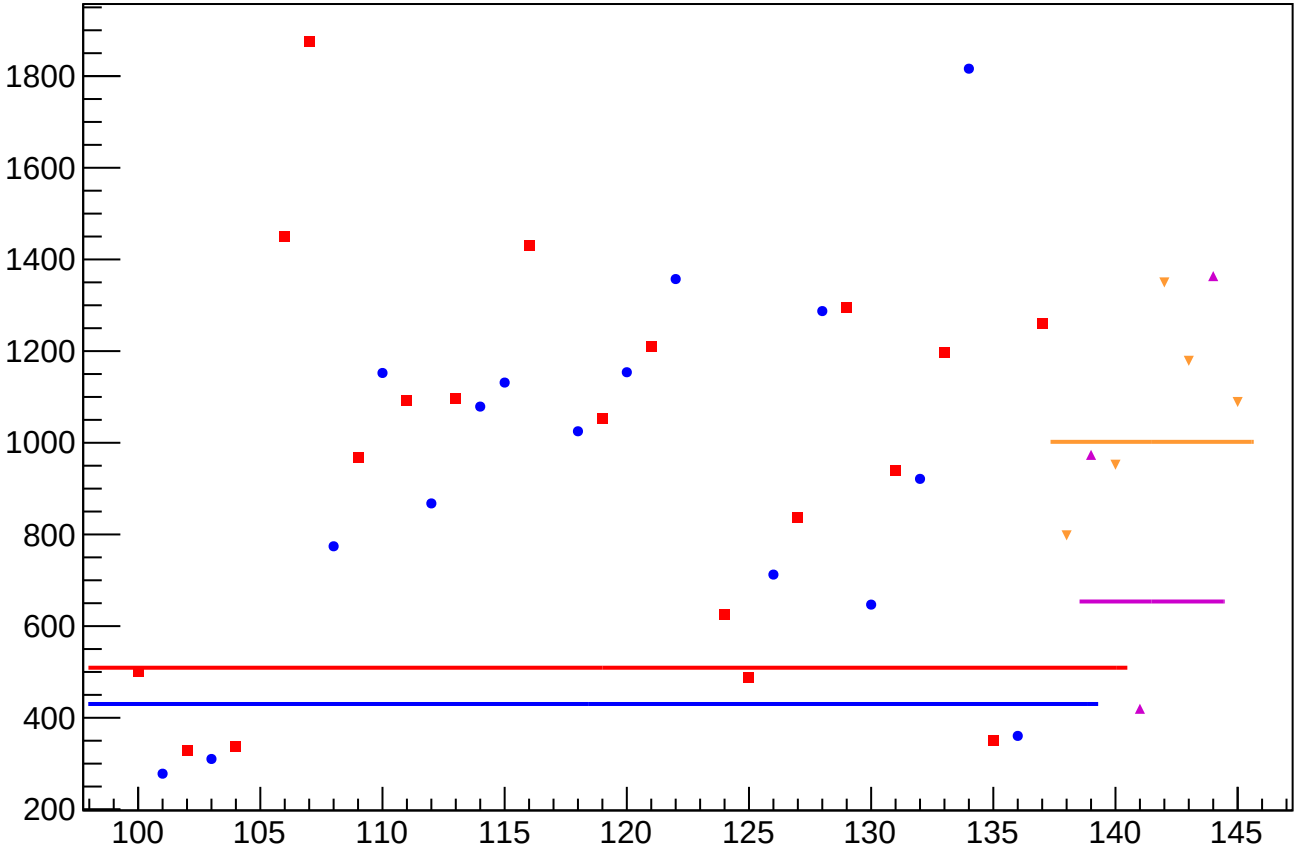
Right: -795.339+/-153.831 $\chi^2$/NDF: 146.4/34

In: -951.479+/-191.048 $\chi^2$/NDF:101.2/18

Out: -413.451+/-215.239 $\chi^2$/NDF:53.1/23

All: -714.387+/-142.882 $\chi^2$/NDF: 157.8/42

# asym_bpm0l03WS_rms vs Slug, Sign Corrected




Right In: 430.110+/-0.145 $\chi^2$/NDF: 3521861.8/15

Left Out: 1002.060+/-0.396 $\chi^2$/NDF:186588.6/4

Right Out: 509.236+/-0.165 $\chi^2$/NDF: 3673425.8/18

Left In: 653.710+/-0.376 $\chi^2$/NDF:868383.1/2

Left: 818.861+/-0.273 $\chi^2$/NDF: 1461891.7/7

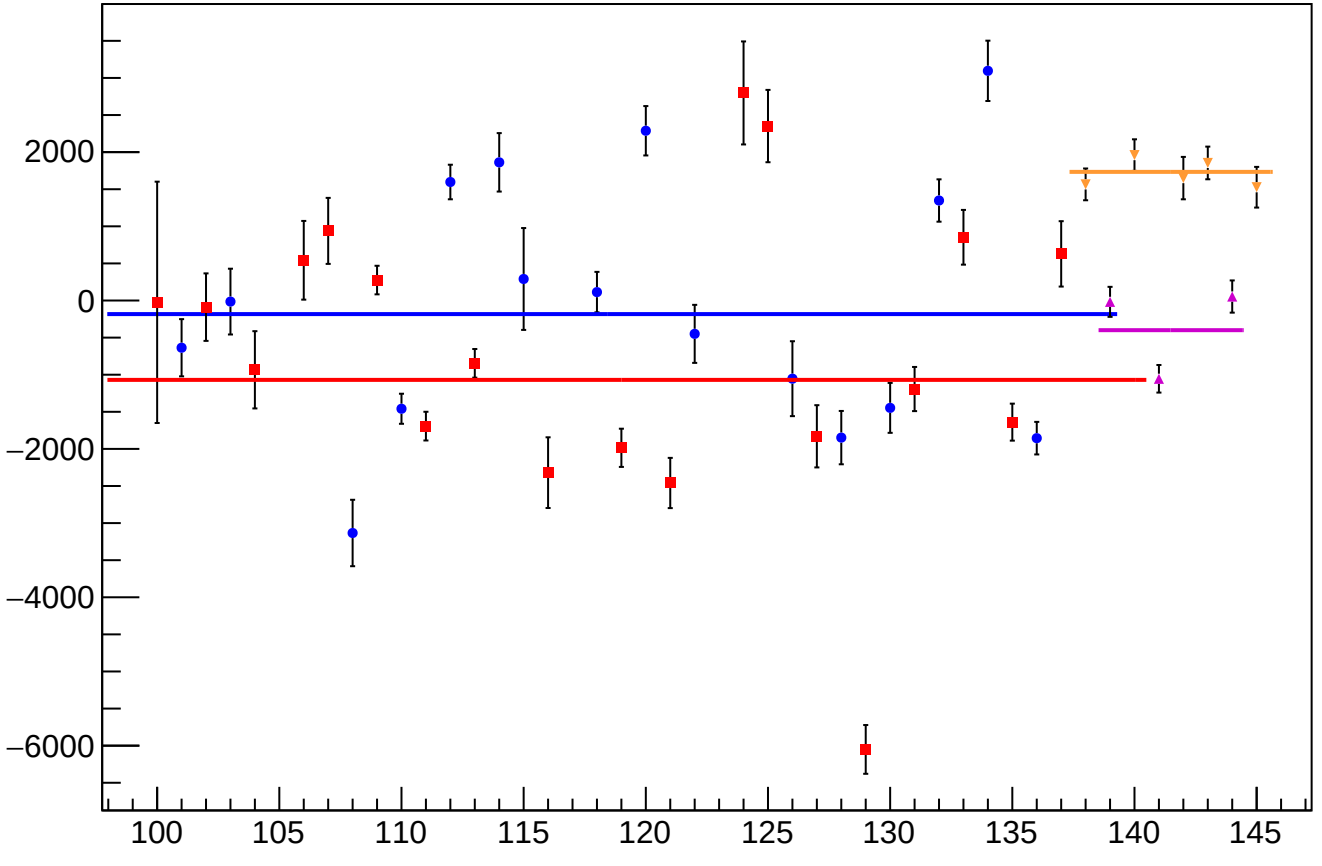
Right: 464.557+/-0.109 $\chi^2$/NDF: 7325362.7/34

In: 458.973+/-0.135 $\chi^2$/NDF:4698230.3/18

Out: 582.026+/-0.152 $\chi^2$/NDF:5179928.5/23

All: 513.199+/-0.101 $\chi^2$/NDF: 10243790.5/42

# asym_bpm0l04WS_mean vs Slug, Sign Corrected




Right In: -183.020+/-79.863 $\chi^2$/NDF: 417.7/15

Left Out: 1733.957+/-105.391 $\chi^2$/NDF:2.7/4

Right Out: -1069.729+/-73.060 $\chi^2$/NDF: 492.3/18

Left In: -399.743+/-115.787 $\chi^2$/NDF:20.3/2

Left: 767.175+/-77.940 $\chi^2$/NDF: 208.8/7

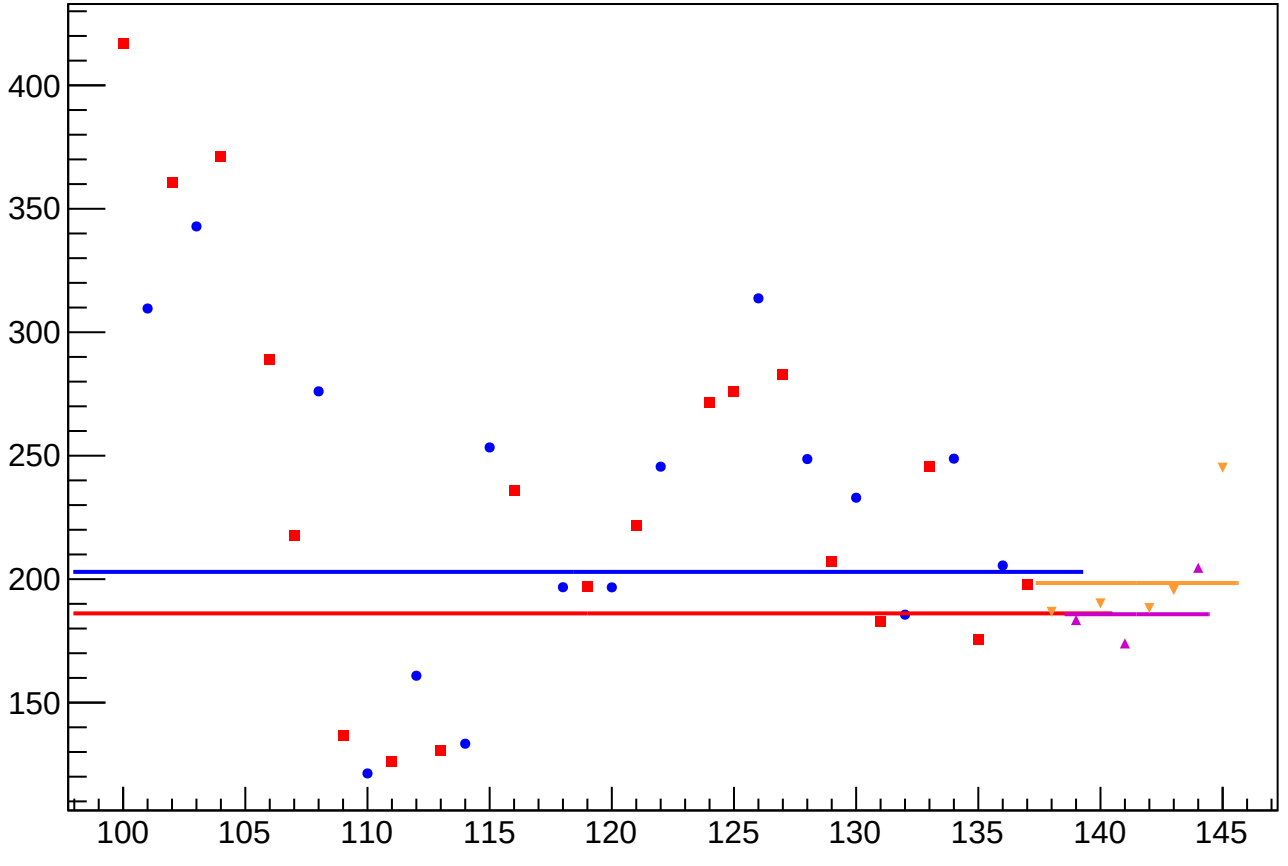
Right: -665.741+/-53.906 $\chi^2$/NDF: 977.1/34

In: -252.886+/-65.742 $\chi^2$/NDF:440.4/18

Out: -159.698+/-60.044 $\chi^2$/NDF:973.0/23

All: -202.079+/-44.335 $\chi^2$/NDF: 1414.5/42

# asym_bpm0l04WS_rms vs Slug, Sign Corrected




Right In: 202.941+/-0.056 $\chi^2$/NDF: 1071859.2/15

Left Out: 198.434+/-0.075 $\chi^2$/NDF:69826.1/4

Right Out: 186.129+/-0.052 $\chi^2$/NDF: 1481664.4/18

Left In: 185.795+/-0.082 $\chi^2$/NDF:23358.9/2

Left: 192.707+/-0.055 $\chi^2$/NDF: 106218.8/7

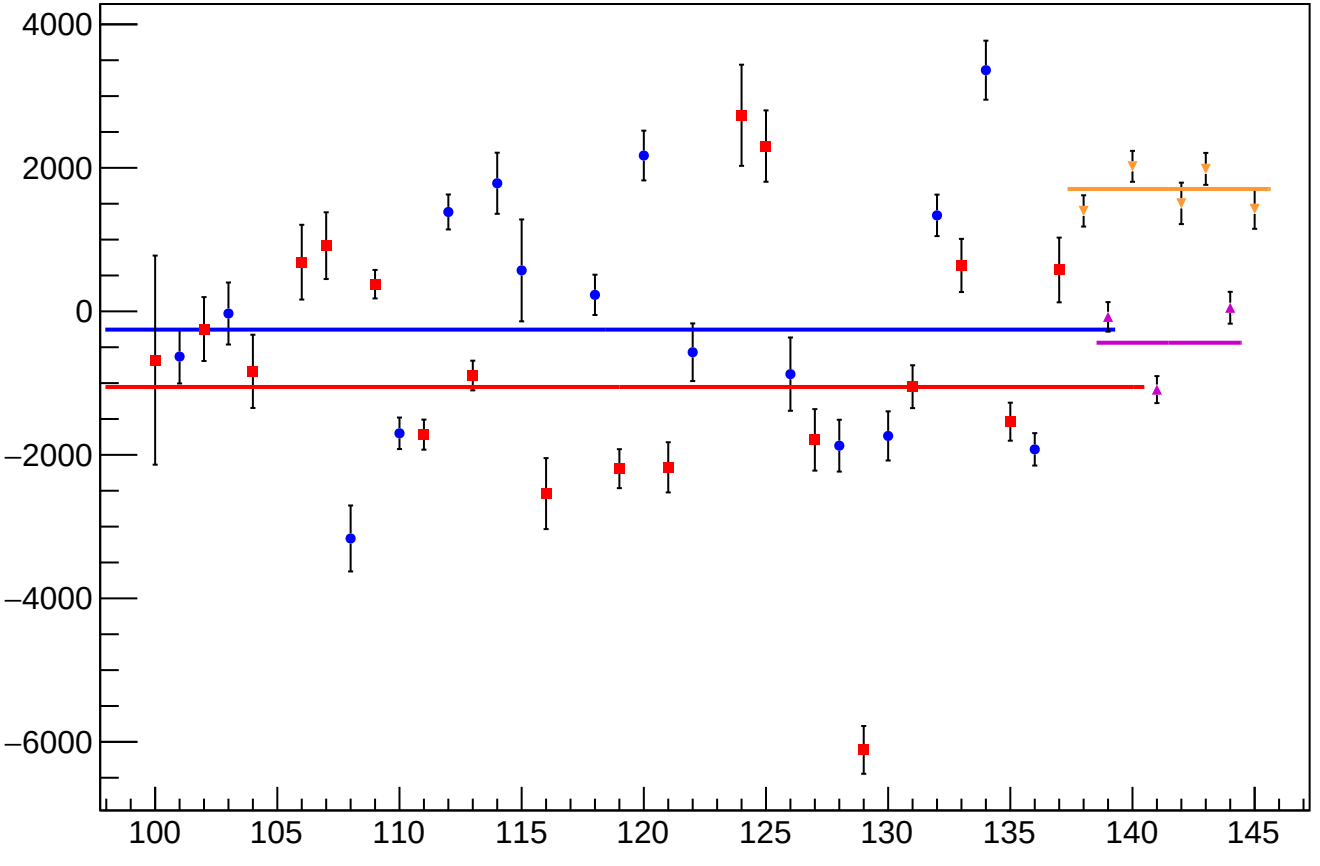
Right: 193.789+/-0.038 $\chi^2$/NDF: 2601774.8/34

In: 197.414+/-0.046 $\chi^2$/NDF:1124937.4/18

Out: 190.123+/-0.042 $\chi^2$/NDF:1569906.2/23

All: 193.439+/-0.031 $\chi^2$/NDF: 2708254.0/42

# asym_bpm0l05WS_mean vs Slug, Sign Corrected




Right In: -254.470+/-82.490 $\chi^2$/NDF: 409.3/15

Left Out: 1705.773+/-106.810 $\chi^2$/NDF:7.2/4

Right Out: -1053.731+/-75.969 $\chi^2$/NDF: 477.7/18

Left In: -437.377+/-117.685 $\chi^2$/NDF:20.0/2

Left: 737.772+/-79.092 $\chi^2$/NDF: 209.0/7

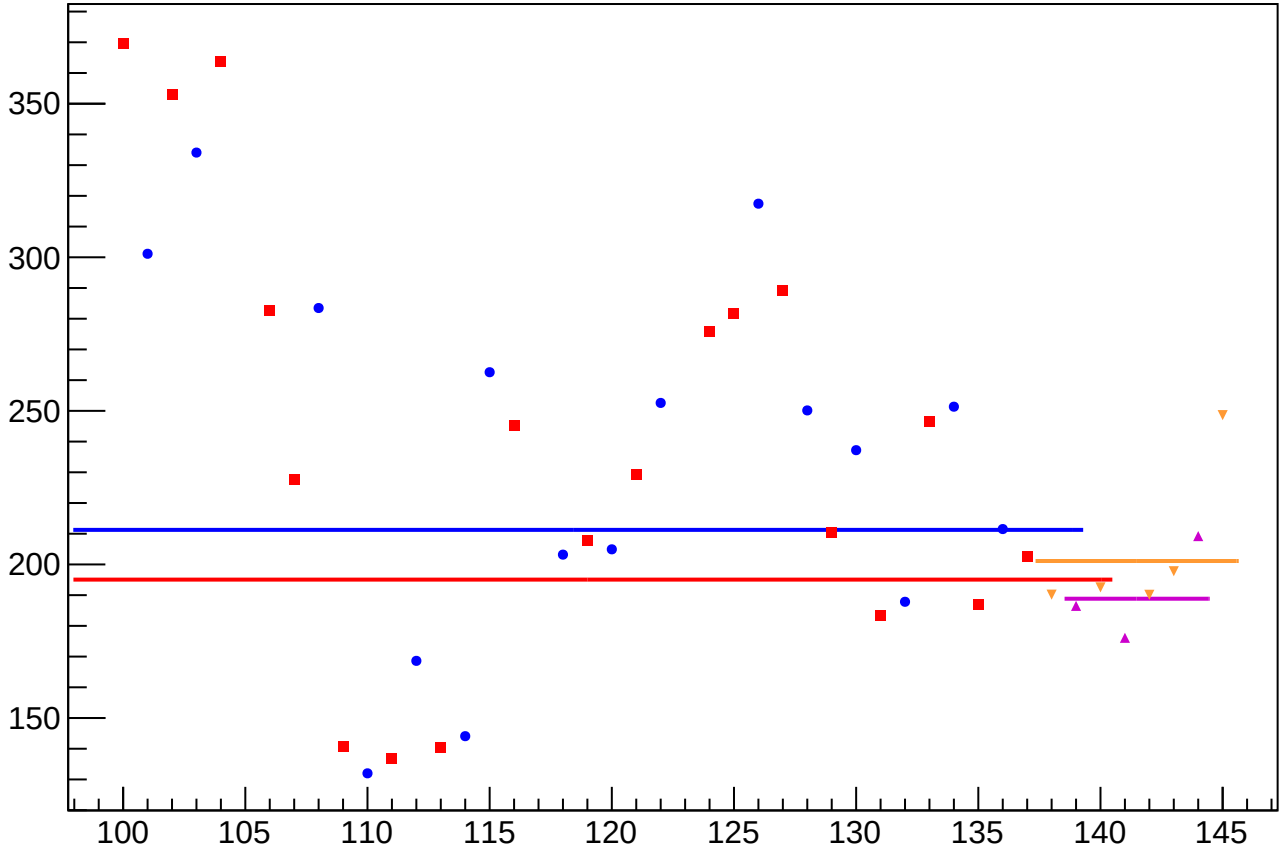
Right: -686.933+/-55.882 $\chi^2$/NDF: 937.7/34

In: -314.729+/-67.548 $\chi^2$/NDF:430.9/18

Out: -126.704+/-61.907 $\chi^2$/NDF:928.1/23

All: -212.539+/-45.639 $\chi^2$/NDF: 1363.1/42

# asym_bpm0l05WS_rms vs Slug, Sign Corrected




Right In: 211.254+/-0.058 $\chi^2$/NDF: 884363.6/15

Left Out: 201.117+/-0.076 $\chi^2$/NDF:69905.8/4

Right Out: 195.061+/-0.054 $\chi^2$/NDF: 1284879.9/18

Left In: 188.839+/-0.083 $\chi^2$/NDF:26275.0/2

Left: 195.572+/-0.056 $\chi^2$/NDF: 108117.1/7

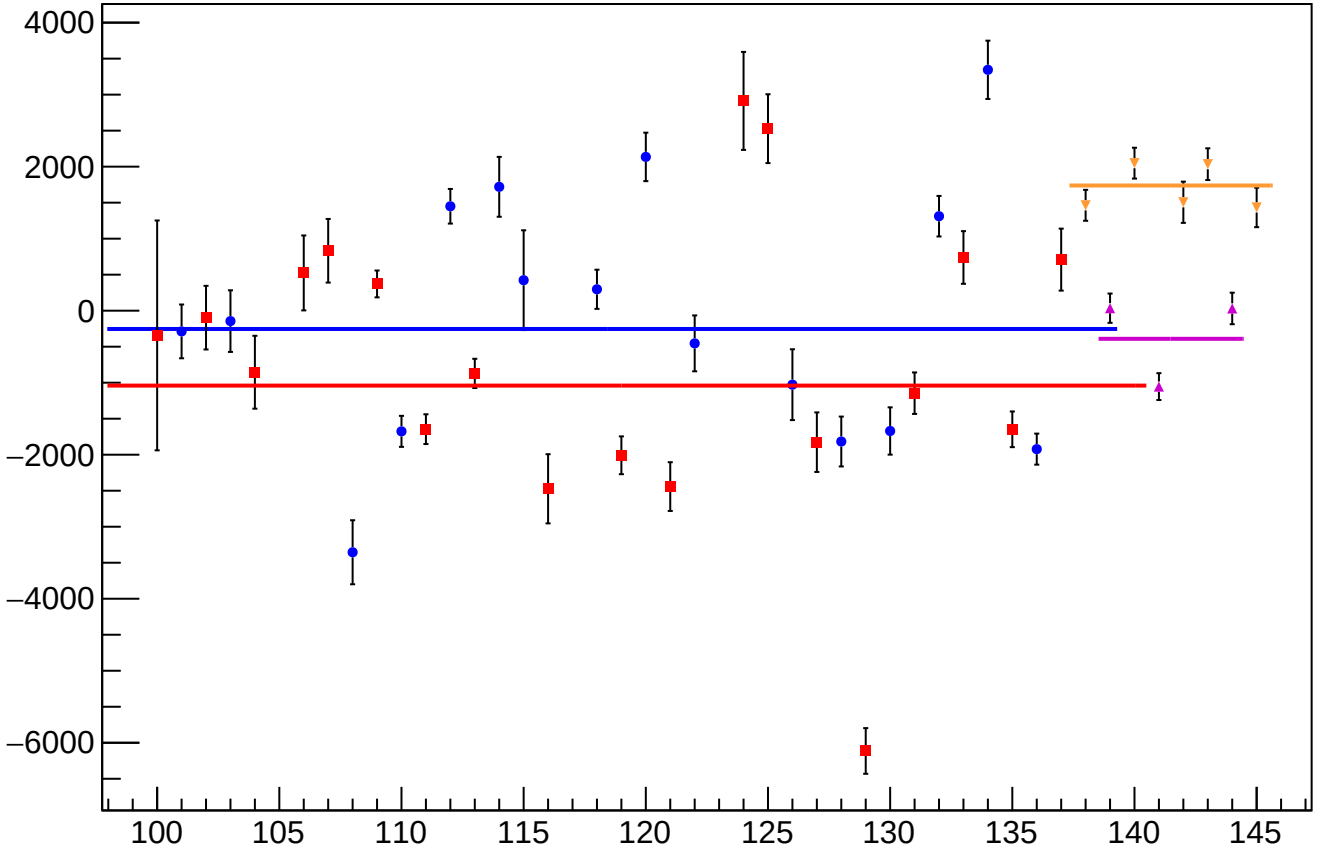
Right: 202.492+/-0.040 $\chi^2$/NDF: 2210941.3/34

In: 203.869+/-0.048 $\chi^2$/NDF:959286.6/18

Out: 197.096+/-0.044 $\chi^2$/NDF:1359055.4/23

All: 200.188+/-0.032 $\chi^2$/NDF: 2329272.2/42

# asym_bpm0l06WS_mean vs Slug, Sign Corrected




Right In: -254.044+/-80.222 $\chi^2$/NDF: 432.1/15

Left Out: 1738.282+/-105.664 $\chi^2$/NDF:7.4/4

Right Out: -1040.361+/-73.363 $\chi^2$/NDF: 533.4/18

Left In: -390.702+/-116.395 $\chi^2$/NDF:20.7/2

Left: 776.438+/-78.235 $\chi^2$/NDF: 211.6/7

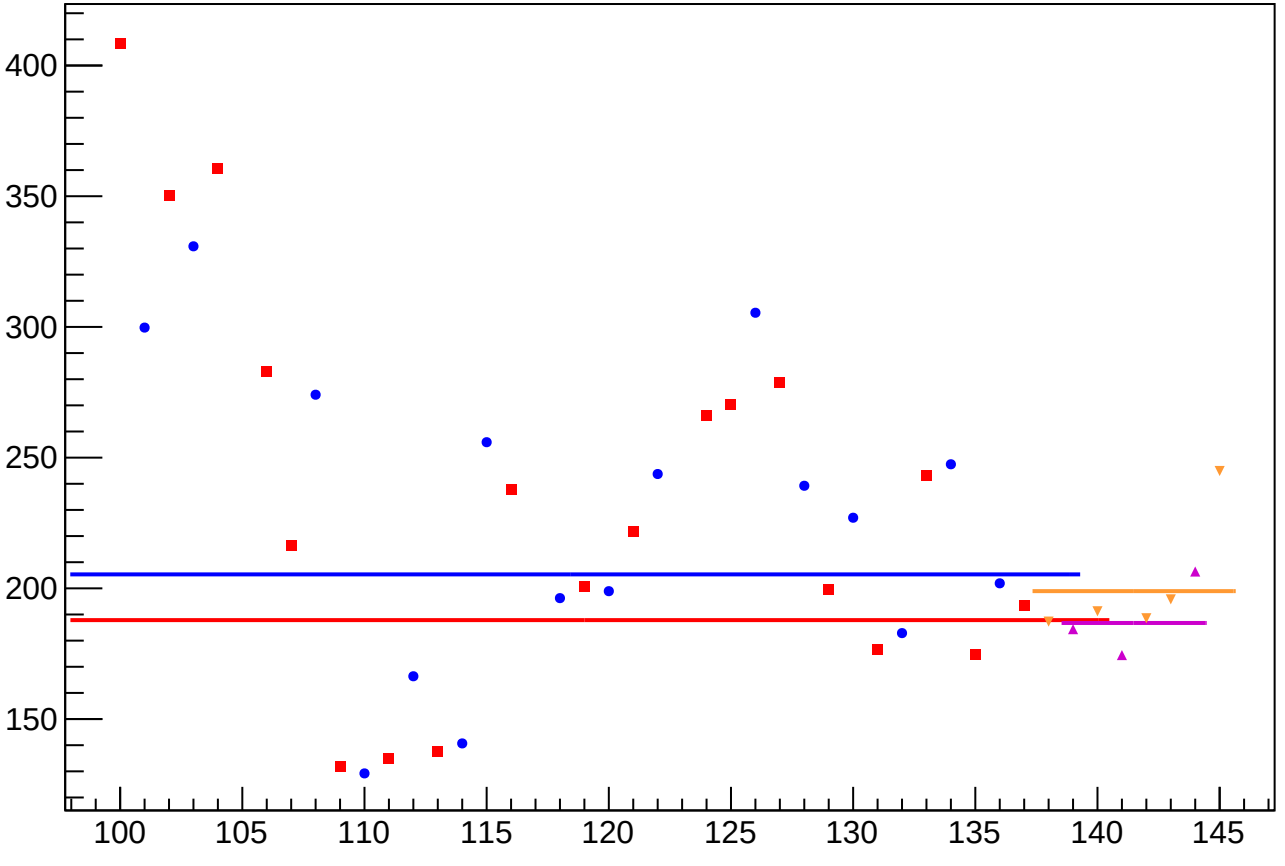
Right: -682.251+/-54.138 $\chi^2$/NDF: 1017.8/34

In: -298.055+/-66.053 $\chi^2$/NDF:453.8/18

Out: -136.571+/-60.262 $\chi^2$/NDF:1007.4/23

All: -209.925+/-44.519 $\chi^2$/NDF: 1464.4/42

# asym_bpm0l06WS_rms vs Slug, Sign Corrected




Right In: 205.341+/-0.057 $\chi^2$/NDF: 877398.6/15

Left Out: 198.936+/-0.075 $\chi^2$/NDF:67768.6/4

Right Out: 187.848+/-0.052 $\chi^2$/NDF: 1337049.4/18

Left In: 186.757+/-0.082 $\chi^2$/NDF:25101.8/2

Left: 193.434+/-0.055 $\chi^2$/NDF: 104875.6/7

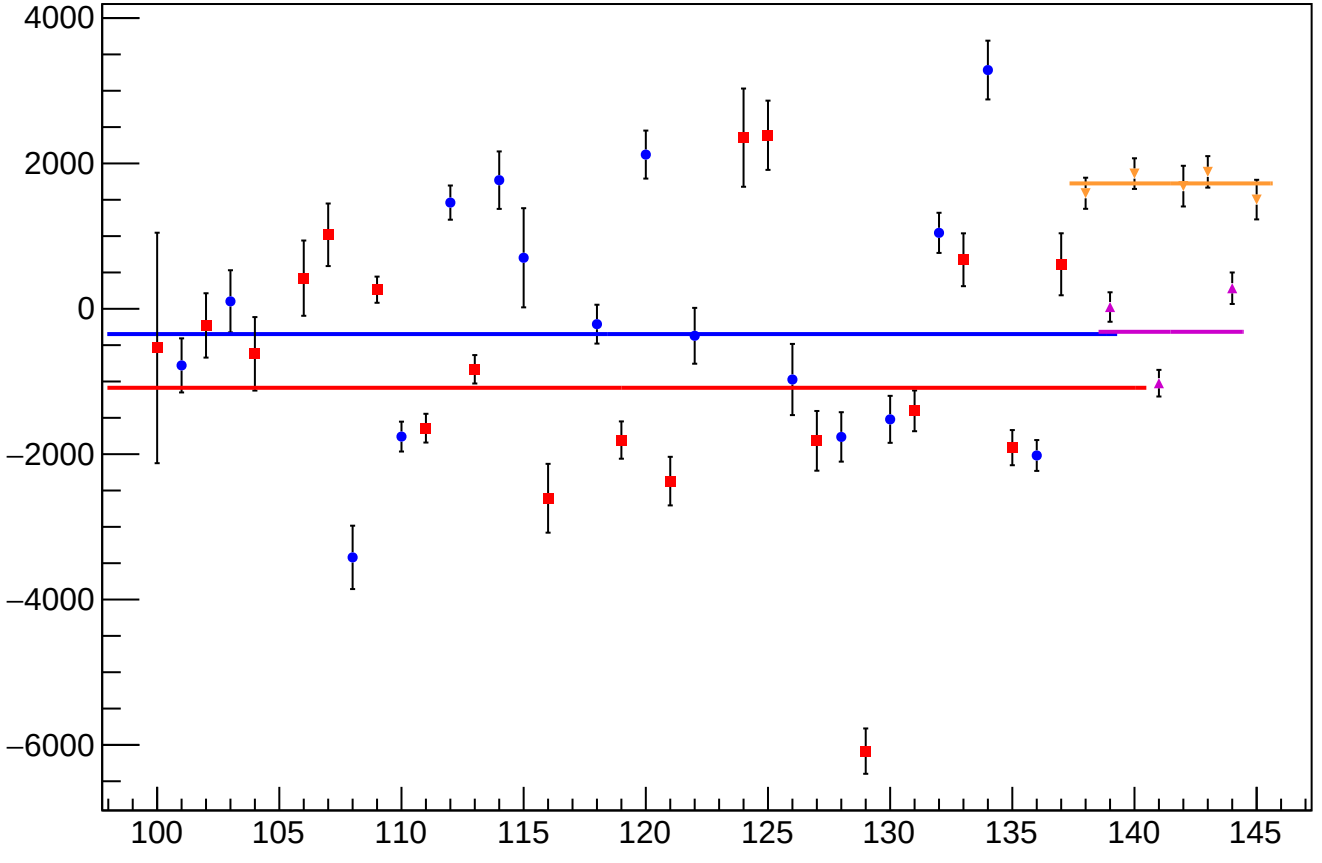
Right: 195.815+/-0.038 $\chi^2$/NDF: 2266235.0/34

In: 199.356+/-0.047 $\chi^2$/NDF:937068.2/18

Out: 191.455+/-0.043 $\chi^2$/NDF:1419677.2/23

All: 195.044+/-0.031 $\chi^2$/NDF: 2372363.8/42

# asym_bpm0l07WS_mean vs Slug, Sign Corrected




Right In: -347.666+/-78.567 $\chi^2$/NDF: 445.8/15

Left Out: 1725.064+/-104.319 $\chi^2$/NDF:2.0/4

Right Out: -1086.638+/-71.539 $\chi^2$/NDF: 527.2/18

Left In: -316.411+/-115.161 $\chi^2$/NDF:25.4/2

Left: 804.931+/-77.314 $\chi^2$/NDF: 200.0/7

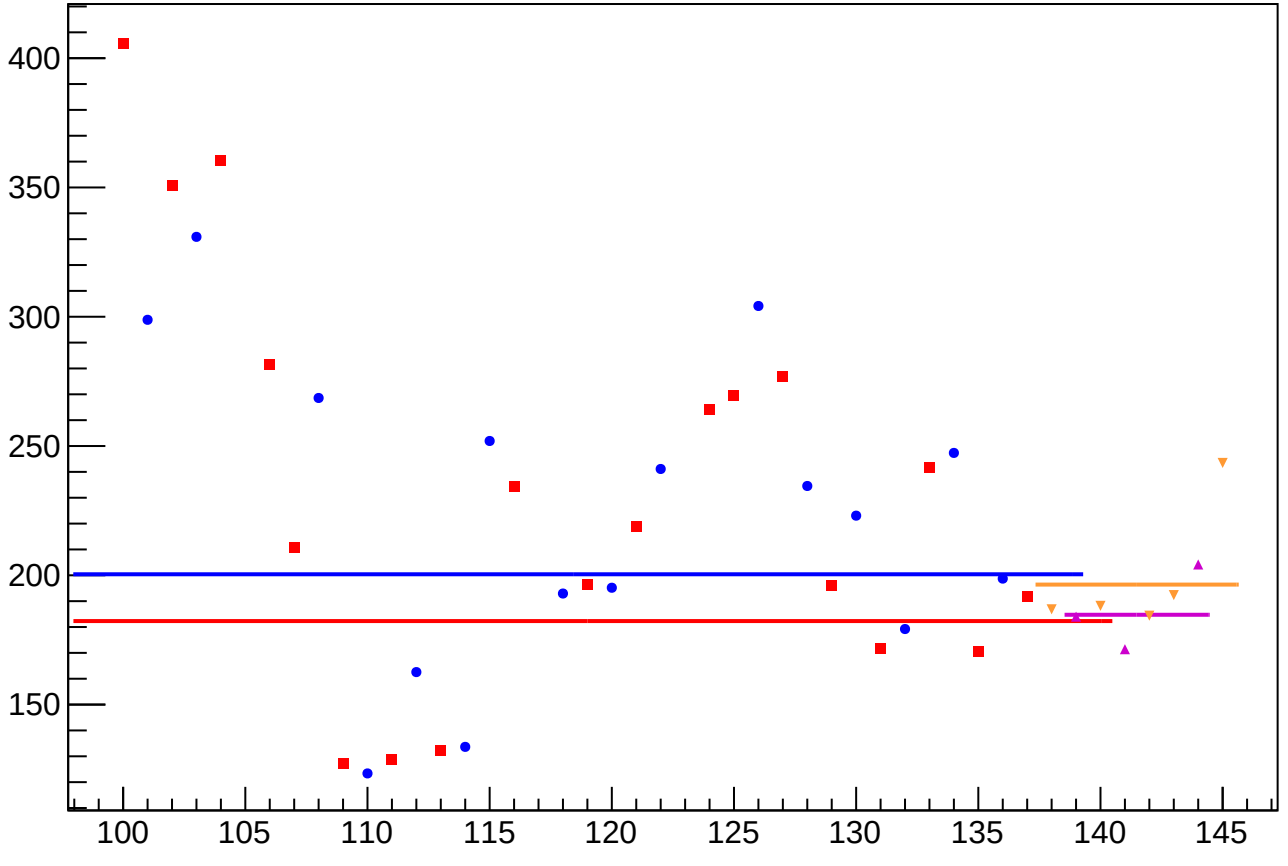
Right: -751.676+/-52.896 $\chi^2$/NDF: 1021.4/34

In: -337.739+/-64.902 $\chi^2$/NDF:471.2/18

Out: -187.288+/-58.999 $\chi^2$/NDF:1023.3/23

All: -255.362+/-43.656 $\chi^2$/NDF: 1497.5/42

# asym_bpm0l07WS_rms vs Slug, Sign Corrected




Right In: 200.399+/-0.056 $\chi^2$/NDF: 959000.8/15

Left Out: 196.410+/-0.074 $\chi^2$/NDF:71100.0/4

Right Out: 182.302+/-0.051 $\chi^2$/NDF: 1447197.0/18

Left In: 184.736+/-0.081 $\chi^2$/NDF:26722.9/2

Left: 191.148+/-0.055 $\chi^2$/NDF: 109111.7/7

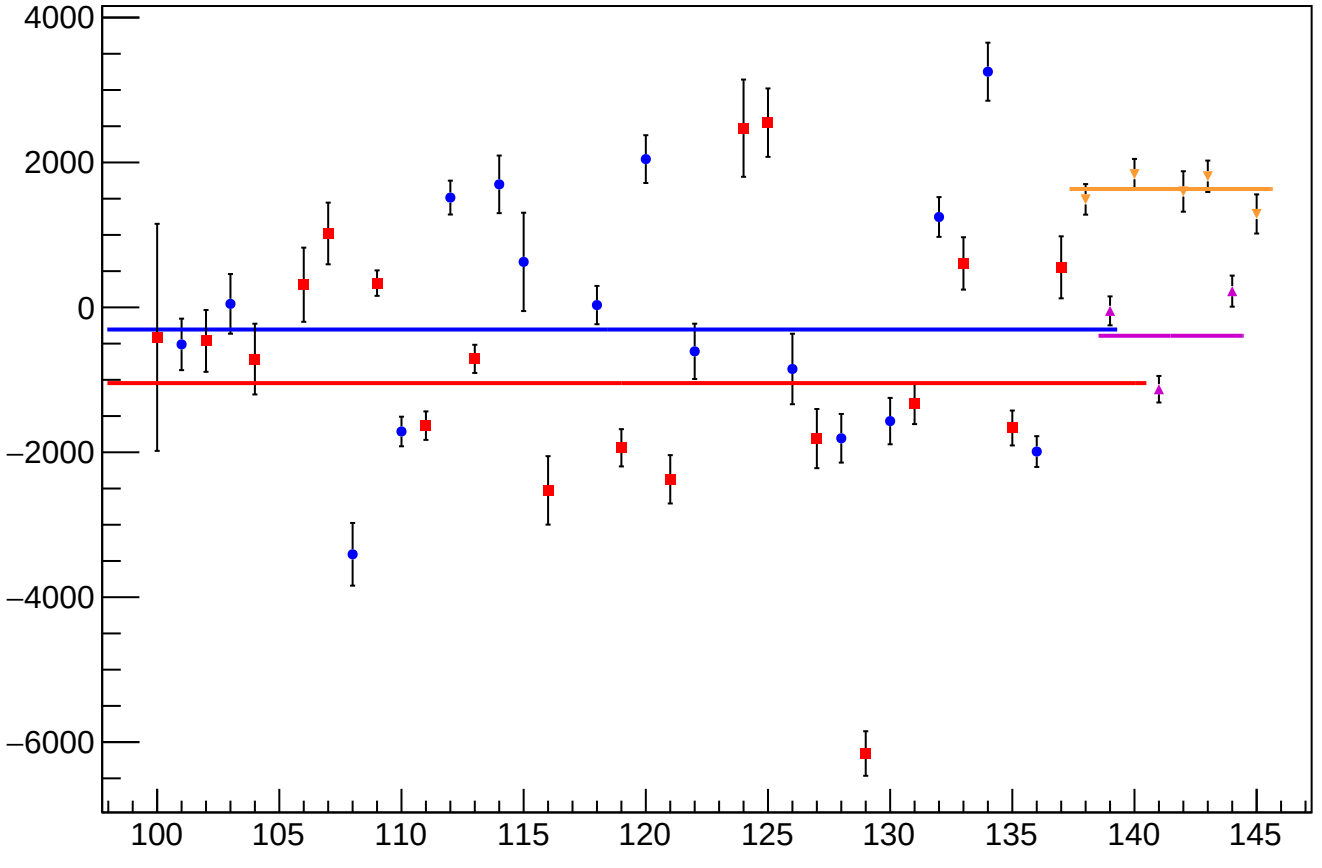
Right: 190.505+/-0.037 $\chi^2$/NDF: 2464212.0/34

In: 195.424+/-0.046 $\chi^2$/NDF:1010968.5/18

Out: 186.814+/-0.042 $\chi^2$/NDF:1543178.2/23

All: 190.710+/-0.031 $\chi^2$/NDF: 2573418.2/42

# asym_bpm0l08WS_mean vs Slug, Sign Corrected




Right In: -305.649+/-77.868 $\chi^2$/NDF: 451.8/15

Left Out: 1633.650+/-103.723 $\chi^2$/NDF:3.7/4

Right Out: -1045.144+/-70.824 $\chi^2$/NDF: 552.2/18

Left In: -391.760+/-114.213 $\chi^2$/NDF:27.4/2

Left: 718.211+/-76.784 $\chi^2$/NDF: 203.5/7

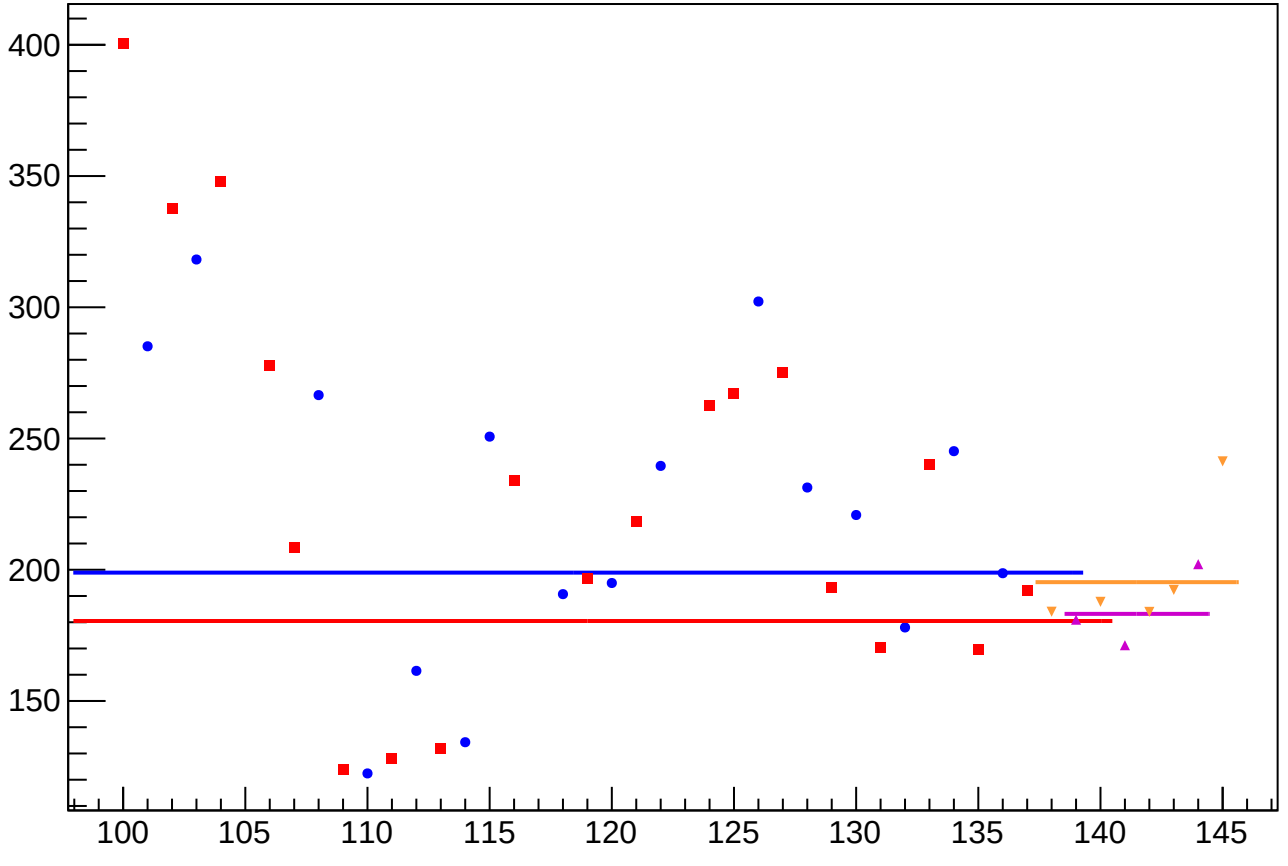
Right: -710.354+/-52.394 $\chi^2$/NDF: 1053.3/34

In: -332.974+/-64.338 $\chi^2$/NDF:479.6/18

Out: -193.332+/-58.489 $\chi^2$/NDF:1010.8/23

All: -256.519+/-43.278 $\chi^2$/NDF: 1493.0/42

# asym_bpm0l08WS_rms vs Slug, Sign Corrected




Right In: 198.903+/-0.055 $\chi^2$/NDF: 912765.0/15

Left Out: 195.272+/-0.073 $\chi^2$/NDF:69998.0/4

Right Out: 180.473+/-0.050 $\chi^2$/NDF: 1434435.8/18

Left In: 183.188+/-0.081 $\chi^2$/NDF:24336.8/2

Left: 189.810+/-0.054 $\chi^2$/NDF: 106604.8/7

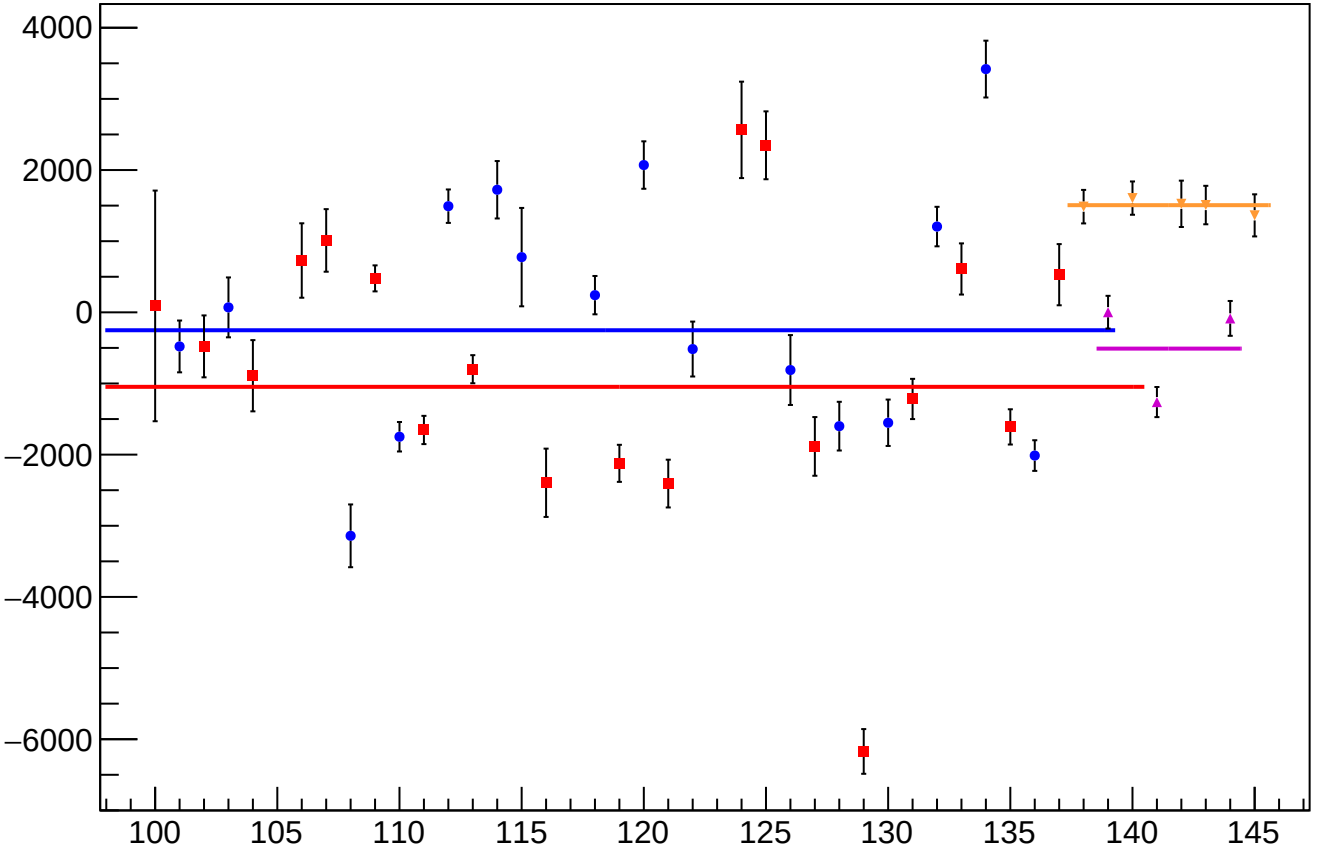
Right: 188.816+/-0.037 $\chi^2$/NDF: 2408514.3/34

In: 193.916+/-0.045 $\chi^2$/NDF:962950.3/18

Out: 185.179+/-0.041 $\chi^2$/NDF:1532203.0/23

All: 189.132+/-0.031 $\chi^2$/NDF: 2515347.7/42

# asym_bpm0l09WS_mean vs Slug, Sign Corrected




Right In: -251.795+/-78.974 $\chi^2$/NDF: 441.2/15

Left Out: 1506.243+/-118.834 $\chi^2$/NDF:0.4/4

Right Out: -1047.132+/-72.190 $\chi^2$/NDF: 546.7/18

Left In: -509.847+/-131.383 $\chi^2$/NDF:20.6/2

Left: 599.051+/-88.132 $\chi^2$/NDF: 150.5/7

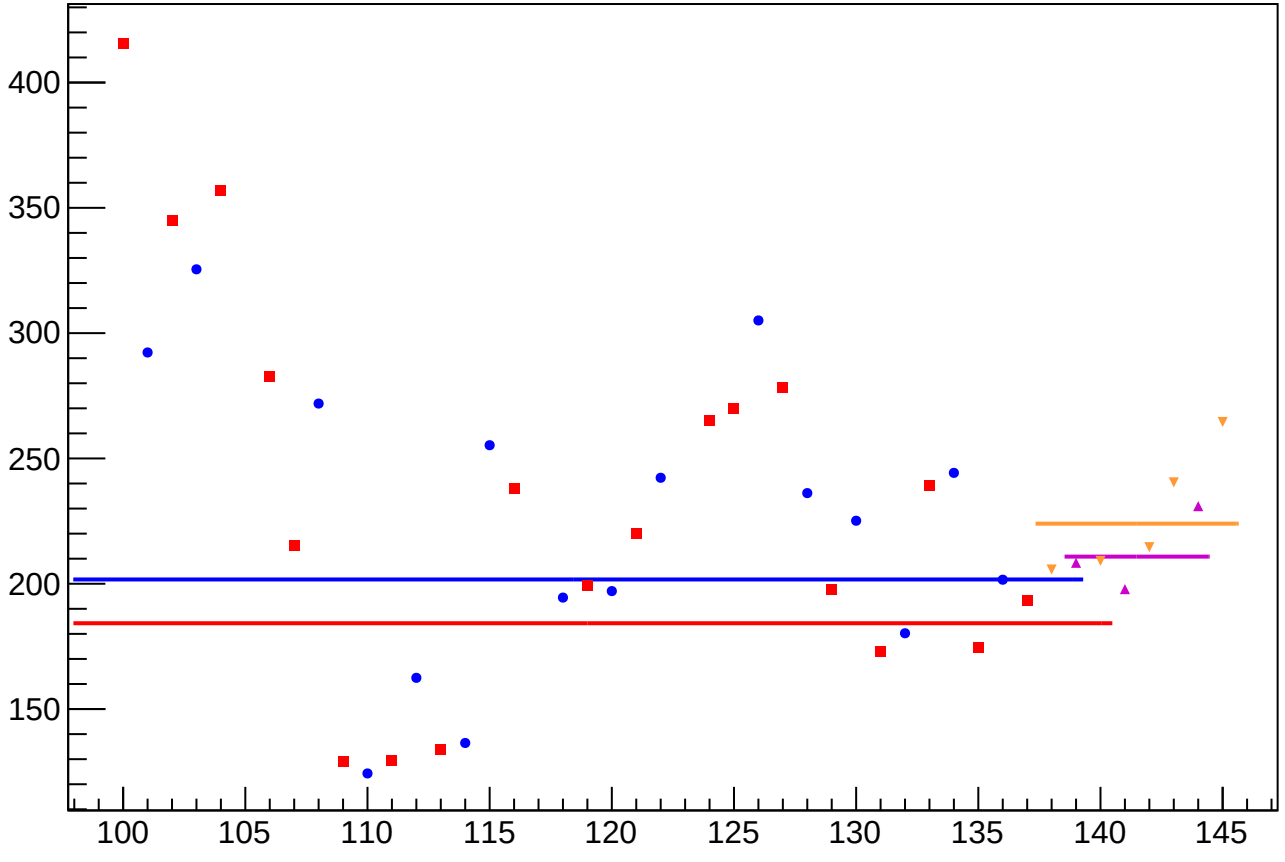
Right: -685.086+/-53.283 $\chi^2$/NDF: 1043.2/34

In: -320.287+/-67.687 $\chi^2$/NDF:464.6/18

Out: -358.845+/-61.698 $\chi^2$/NDF:884.4/23

All: -341.347+/-45.598 $\chi^2$/NDF: 1349.2/42

# asym_bpm0l09WS_rms vs Slug, Sign Corrected




Right In: 201.714+/-0.056 $\chi^2$/NDF: 924210.1/15

Left Out: 223.978+/-0.084 $\chi^2$/NDF:66774.5/4

Right Out: 184.244+/-0.051 $\chi^2$/NDF: 1403761.8/18

Left In: 210.828+/-0.093 $\chi^2$/NDF:21268.5/2

Left: 218.061+/-0.062 $\chi^2$/NDF: 99062.4/7

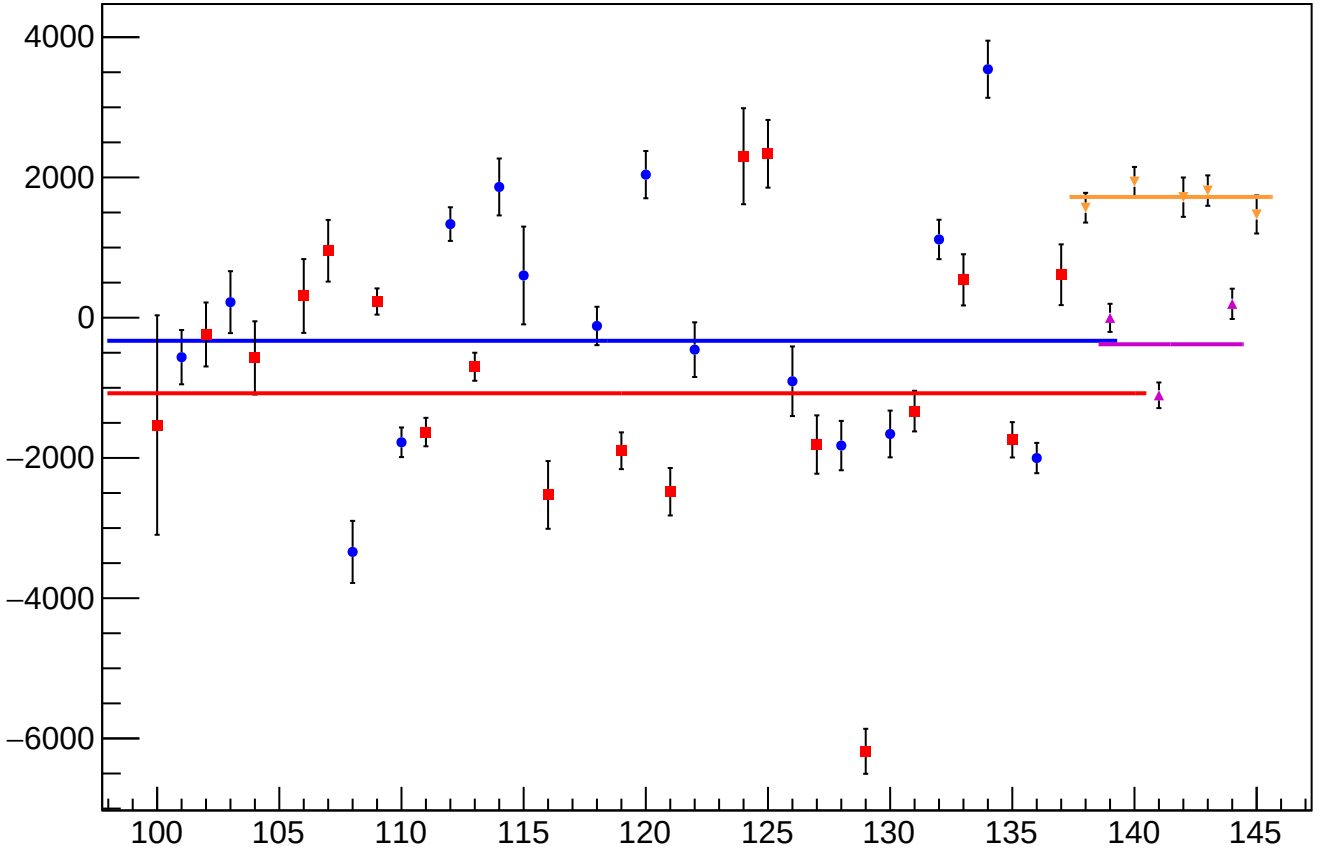
Right: 192.196+/-0.038 $\chi^2$/NDF: 2381288.1/34

In: 204.133+/-0.048 $\chi^2$/NDF:952549.4/18

Out: 194.954+/-0.044 $\chi^2$/NDF:1633861.7/23

All: 199.120+/-0.032 $\chi^2$/NDF: 2606496.6/42

# asym_bpm0l10WS_mean vs Slug, Sign Corrected




Right In: -329.377+/-80.367 $\chi^2$/NDF: 436.4/15

Left Out: 1721.815+/-104.029 $\chi^2$/NDF:2.6/4

Right Out: -1077.876+/-73.404 $\chi^2$/NDF: 502.0/18

Left In: -379.172+/-114.490 $\chi^2$/NDF:26.5/2

Left: 771.671+/-76.993 $\chi^2$/NDF: 213.6/7

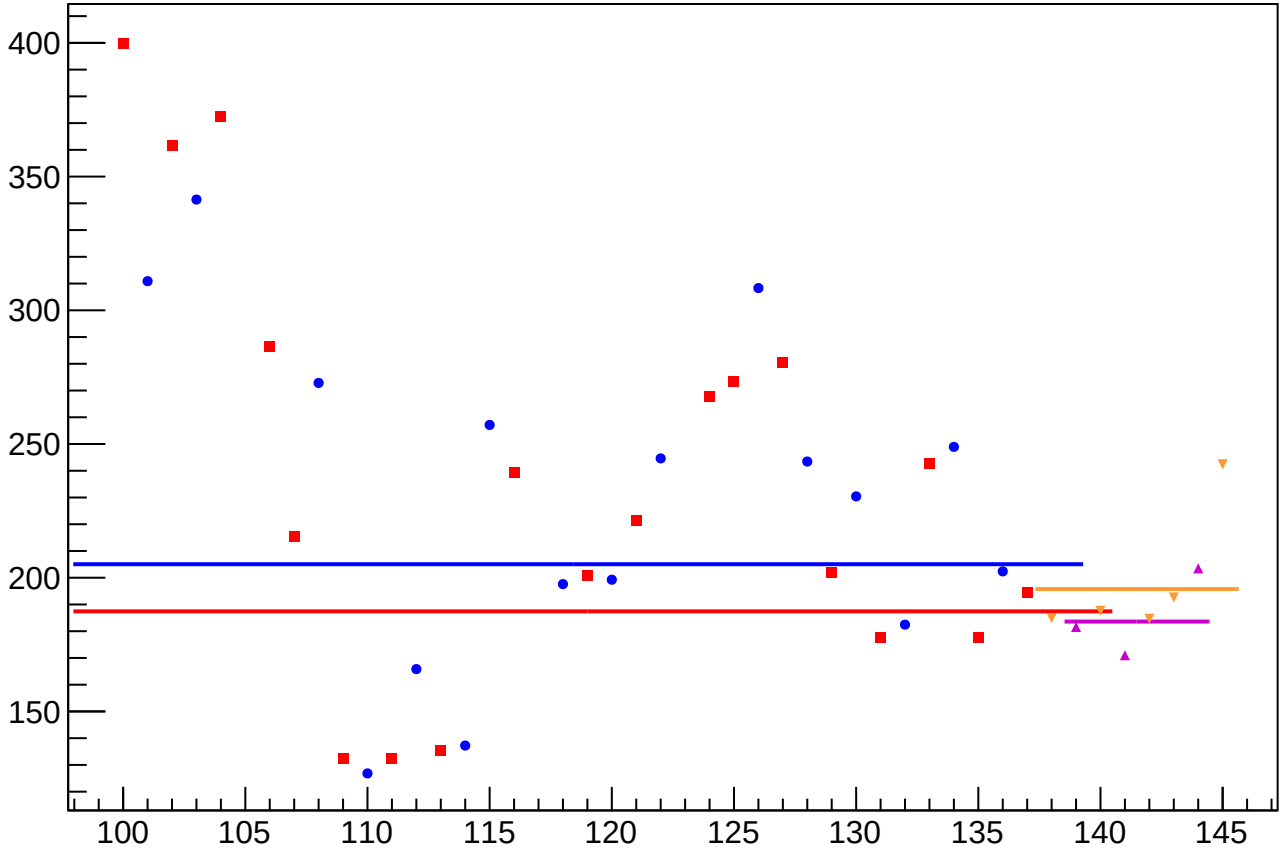
Right: -737.449+/-54.199 $\chi^2$/NDF: 985.7/34

In: -345.814+/-65.779 $\chi^2$/NDF:463.0/18

Out: -147.274+/-59.977 $\chi^2$/NDF:988.1/23

All: -237.403+/-44.319 $\chi^2$/NDF: 1456.1/42

# asym_bpm0l10WS_rms vs Slug, Sign Corrected




Right In: 205.053+/-0.057 $\chi^2$/NDF: 963052.0/15

Left Out: 195.766+/-0.074 $\chi^2$/NDF:70946.1/4

Right Out: 187.431+/-0.052 $\chi^2$/NDF: 1410802.2/18

Left In: 183.605+/-0.081 $\chi^2$/NDF:26643.1/2

Left: 190.267+/-0.054 $\chi^2$/NDF: 109949.9/7

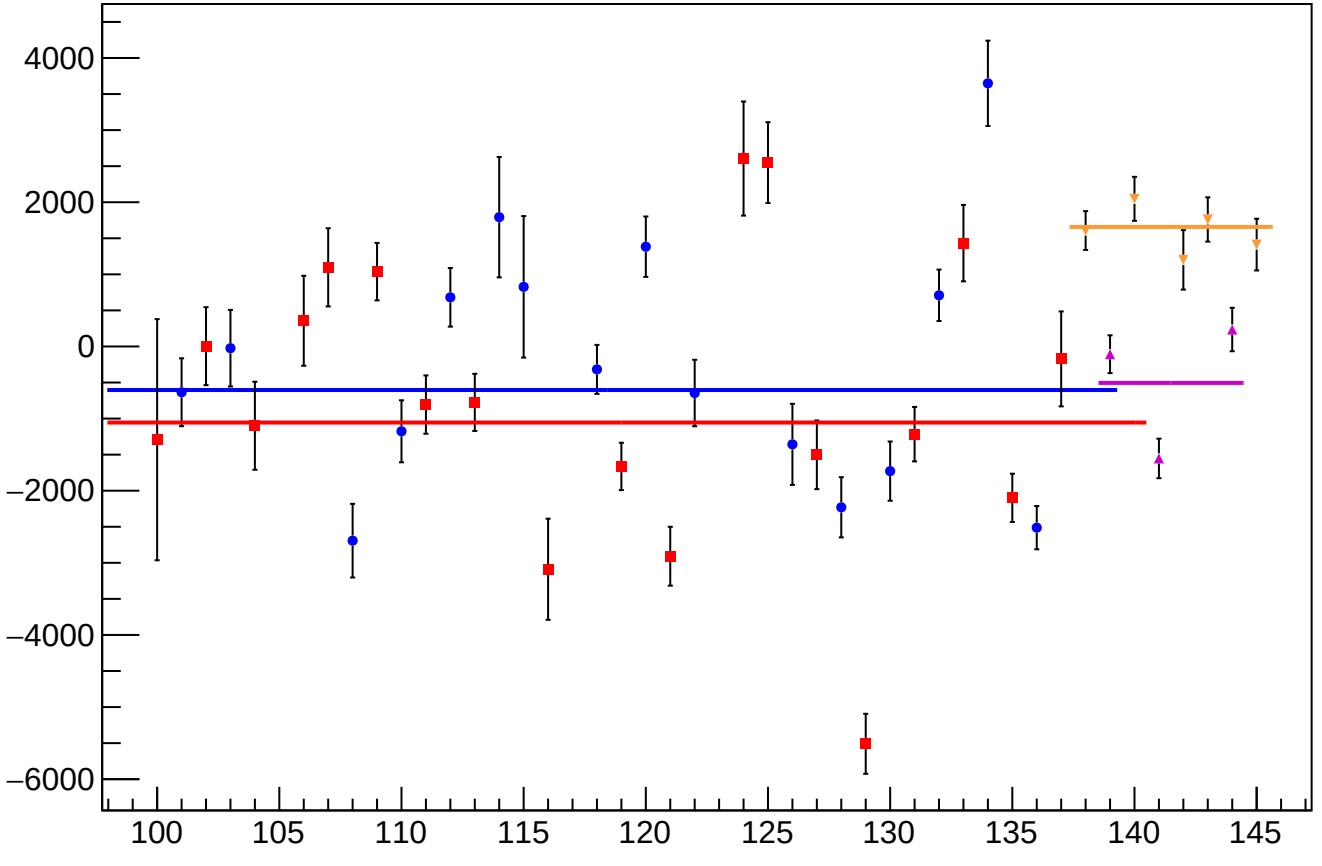
Right: 195.446+/-0.038 $\chi^2$/NDF: 2426275.9/34

In: 197.973+/-0.047 $\chi^2$/NDF:1036713.7/18

Out: 190.202+/-0.042 $\chi^2$/NDF:1490320.1/23

All: 193.730+/-0.031 $\chi^2$/NDF: 2542276.9/42

# asym_bpm0r03WS_mean vs Slug, Sign Corrected




Right In: -603.855+/-110.693 $\chi^2$/NDF: 193.5/15

Left Out: 1657.554+/-143.122 $\chi^2$/NDF:3.5/4

Right Out: -1054.556+/-108.264 $\chi^2$/NDF: 297.7/18

Left In: -505.252+/-160.302 $\chi^2$/NDF:23.0/2

Left: 698.216+/-106.762 $\chi^2$/NDF: 127.7/7

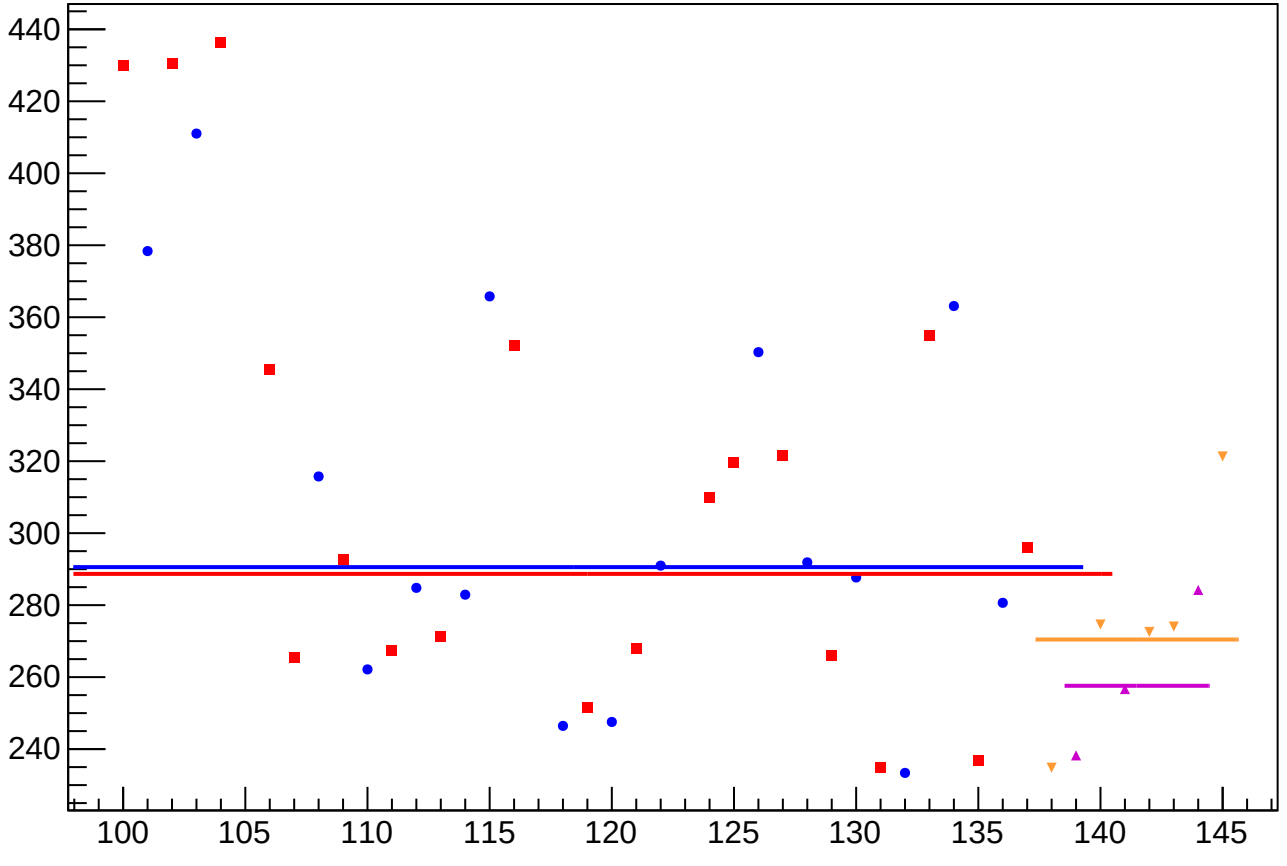
Right: -834.205+/-77.398 $\chi^2$/NDF: 499.7/34

In: -572.019+/-91.087 $\chi^2$/NDF:216.8/18

Out: -67.482+/-86.343 $\chi^2$/NDF:529.5/23

All: -306.272+/-62.664 $\chi^2$/NDF: 762.5/42

# asym_bpm0r03WS_rms vs Slug, Sign Corrected




Right In: 290.566+/-0.078 $\chi^2$/NDF: 359807.1/15

Left Out: 270.449+/-0.101 $\chi^2$/NDF:75951.7/4

Right Out: 288.686+/-0.077 $\chi^2$/NDF: 489094.8/18

Left In: 257.595+/-0.113 $\chi^2$/NDF:26561.4/2

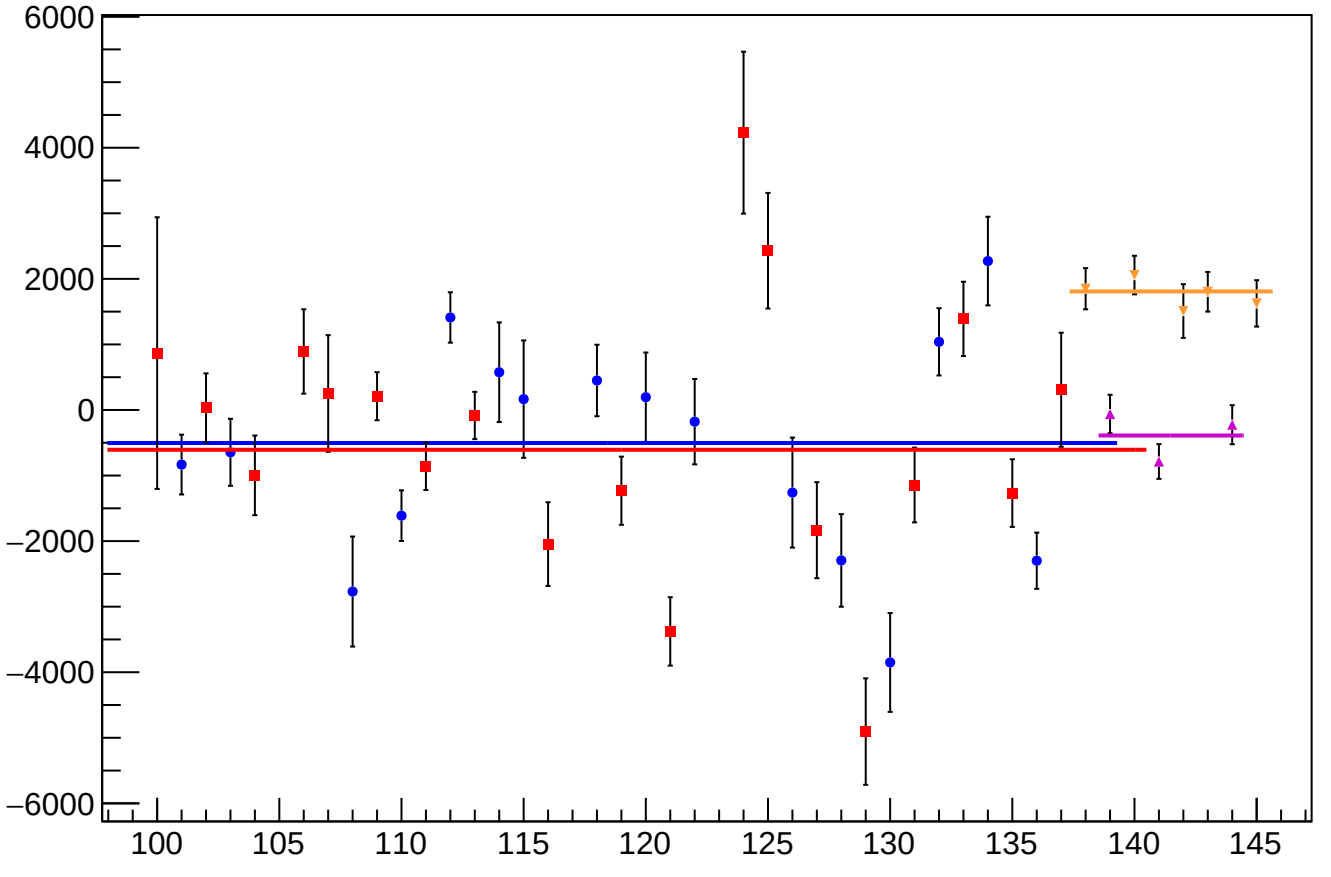
Left: 264.748+/-0.075 $\chi^2$/NDF: 109668.5/7

Right: 289.605+/-0.055 $\chi^2$/NDF: 849196.8/34

In: 279.921+/-0.064 $\chi^2$/NDF:443659.0/18

Out: 282.049+/-0.061 $\chi^2$/NDF:585700.3/23

All: 281.042+/-0.044 $\chi^2$/NDF: 1029934.2/42




Right In: -503.675+/-140.058 $\chi^2$/NDF: 118.2/15

Left Out: 1808.390+/-146.574 $\chi^2$/NDF:1.5/4

Right Out: -606.880+/-129.609 $\chi^2$/NDF: 125.1/18

Left In: -389.219+/-164.184 $\chi^2$/NDF:3.8/2

Left: 833.723+/-109.341 $\chi^2$/NDF: 105.0/7

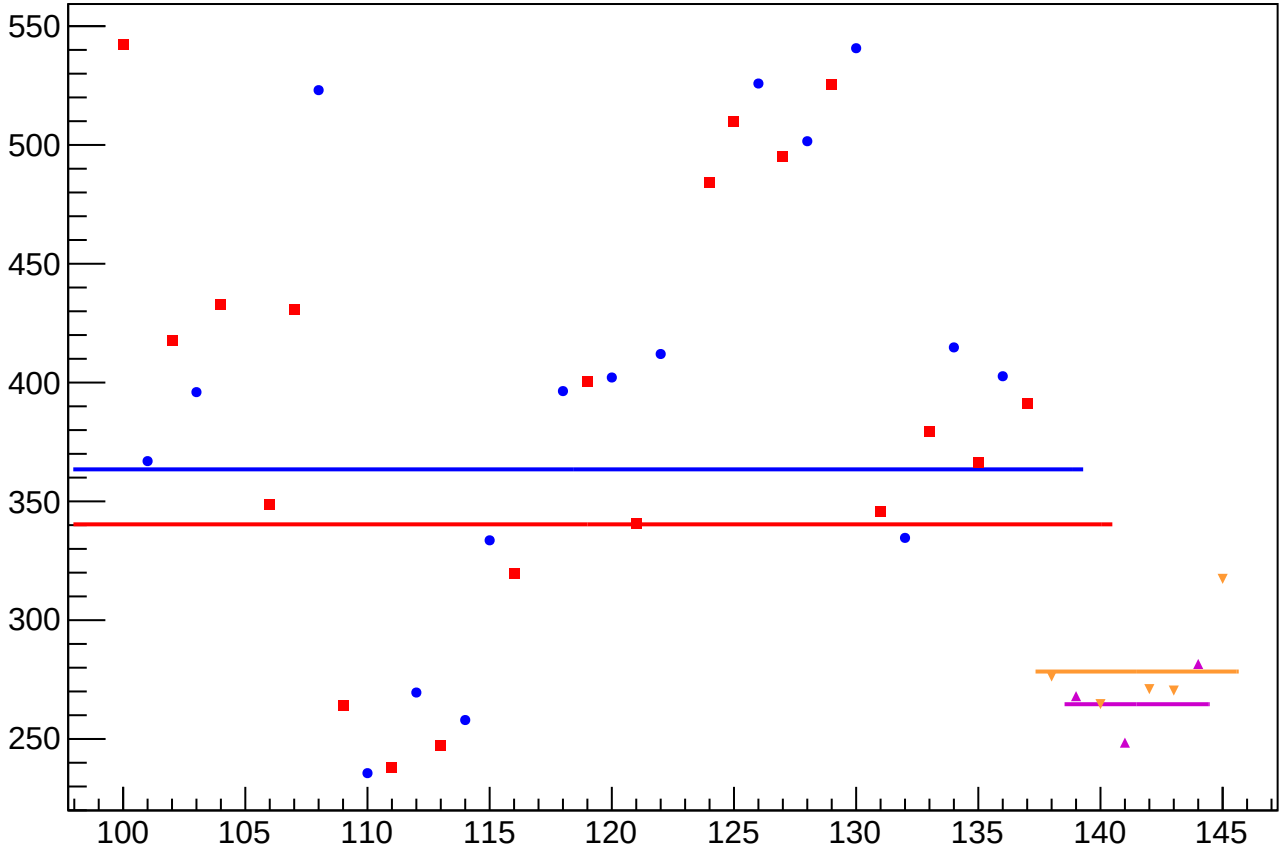
Right: -559.271+/-95.127 $\chi^2$/NDF: 243.7/34

In: -455.467+/-106.555 $\chi^2$/NDF:122.3/18

Out: 452.947+/-97.094 $\chi^2$/NDF:279.1/23

All: 40.853+/-71.768 $\chi^2$/NDF: 441.1/42

# asym_bpm0r05WS_rms vs Slug, Sign Corrected




Right In: 363.471+/-0.099 $\chi^2$/NDF: 780893.2/15

Left Out: 278.383+/-0.104 $\chi^2$/NDF:30799.1/4

Right Out: 340.332+/-0.092 $\chi^2$/NDF: 856230.3/18

Left In: 264.634+/-0.116 $\chi^2$/NDF:14186.1/2

Left: 272.285+/-0.077 $\chi^2$/NDF: 52790.7/7

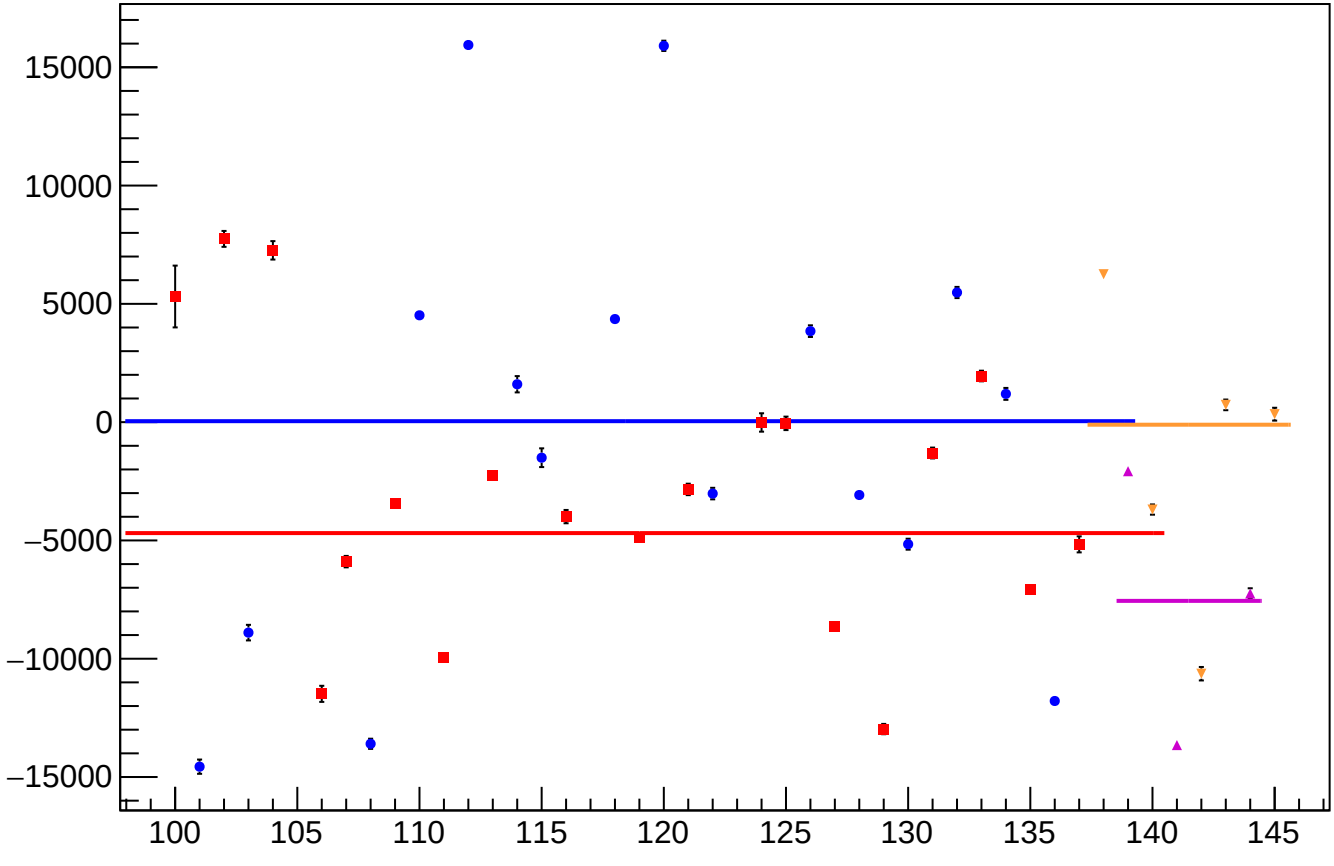
Right: 351.006+/-0.067 $\chi^2$/NDF: 1666529.8/34

In: 321.841+/-0.075 $\chi^2$/NDF:1214587.3/18

Out: 313.149+/-0.069 $\chi^2$/NDF:1087521.3/23

All: 317.092+/-0.051 $\chi^2$/NDF: 2309380.4/42

# asym_bpm0i02WS_mean vs Slug, Sign Corrected




Right In: 40.915+/-54.199 $\chi^2$/NDF: 30786.3/15

Left Out: -108.420+/-102.163 $\chi^2$/NDF:2827.6/4

Right Out: -4689.710+/-52.095 $\chi^2$/NDF: 7795.7/18

Left In: -7555.031+/-115.432 $\chi^2$/NDF:1818.5/2

Left: -3379.305+/-76.503 $\chi^2$/NDF: 6979.7/7

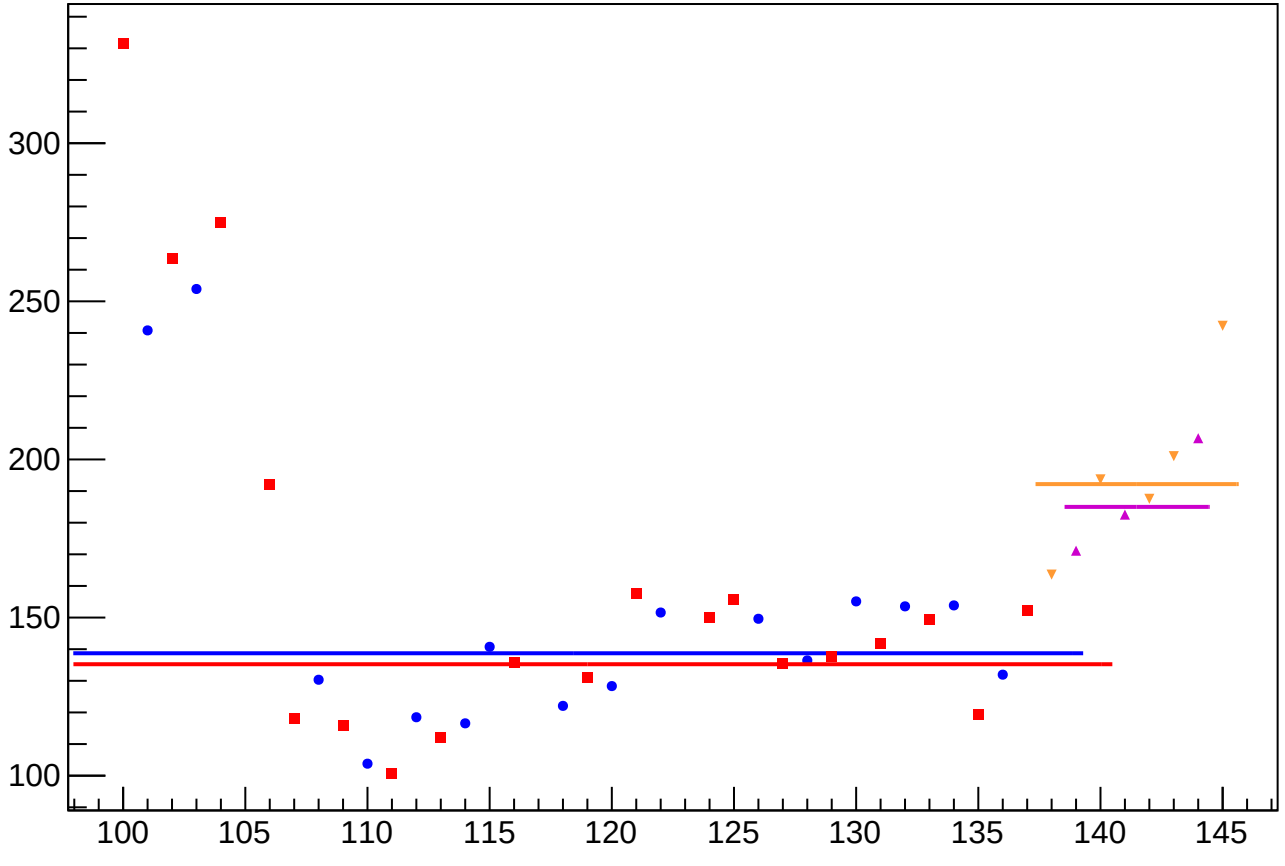
Right: -2417.983+/-37.558 $\chi^2$/NDF: 42541.9/34

In: -1331.178+/-49.060 $\chi^2$/NDF:36152.8/18

Out: -3744.307+/-46.410 $\chi^2$/NDF:12219.2/23

All: -2604.683+/-33.715 $\chi^2$/NDF: 49648.8/42

# asym_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 138.712+/-0.038 $\chi^2$/NDF: 657791.3/15

Left Out: 192.202+/-0.072 $\chi^2$/NDF:119068.6/4

Right Out: 135.245+/-0.037 $\chi^2$/NDF: 890024.8/18

Left In: 184.998+/-0.082 $\chi^2$/NDF:30670.9/2

Left: 189.038+/-0.054 $\chi^2$/NDF: 154107.2/7

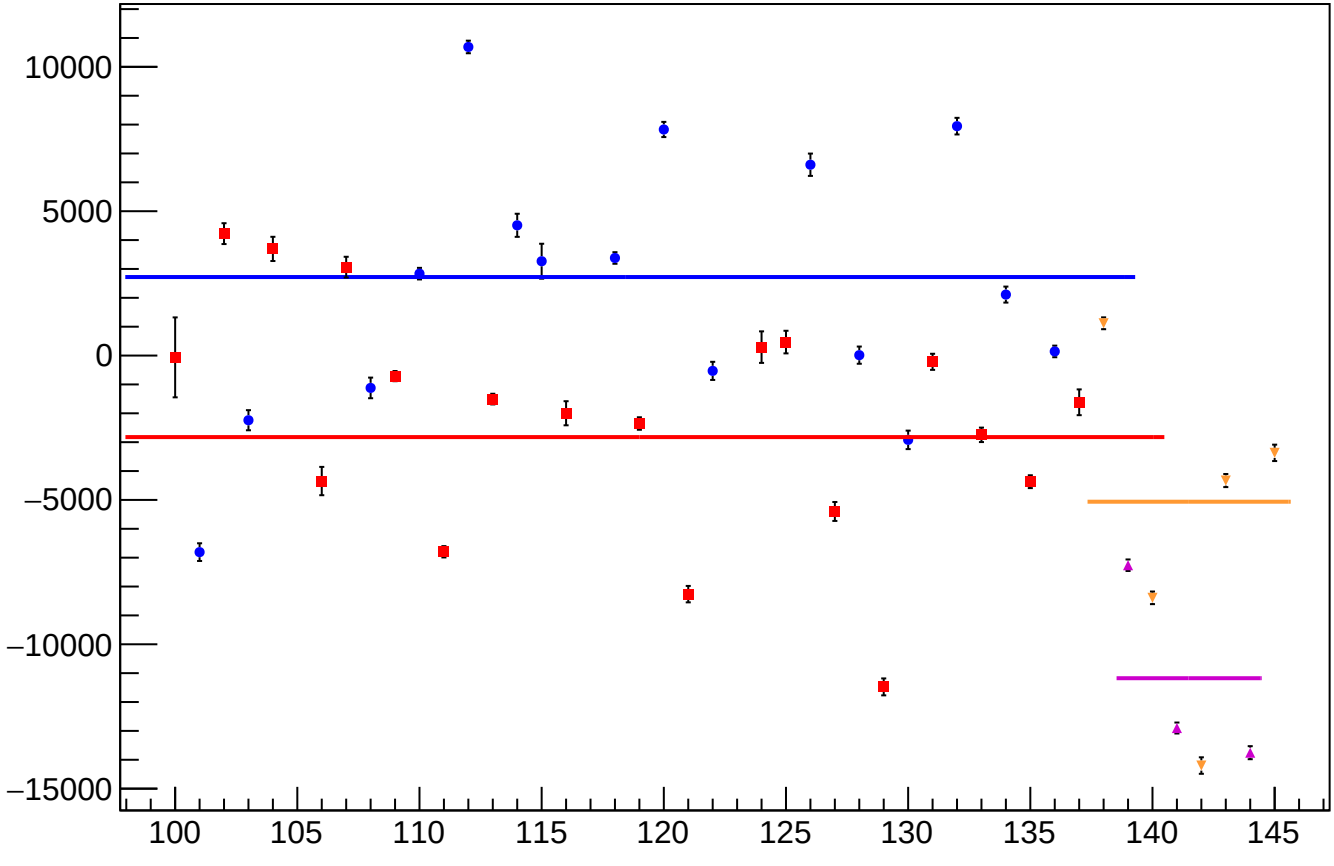
Right: 136.910+/-0.027 $\chi^2$/NDF: 1552069.4/34

In: 147.073+/-0.035 $\chi^2$/NDF:951948.0/18

Out: 146.999+/-0.033 $\chi^2$/NDF:1502443.6/23

All: 147.034+/-0.024 $\chi^2$/NDF: 2454393.9/42

# asym_bpm0i02aWS_mean vs Slug, Sign Corrected




Right In: 2719.896+/-69.247 $\chi^2$/NDF: 4129.3/15

Left Out: -5061.976+/-106.143 $\chi^2$/NDF:2206.3/4

Right Out: -2823.679+/-64.850 $\chi^2$/NDF: 3062.8/18

Left In: -11175.302+/-117.395 $\chi^2$/NDF:598.6/2

Left: -7811.714+/-78.733 $\chi^2$/NDF: 4296.9/7

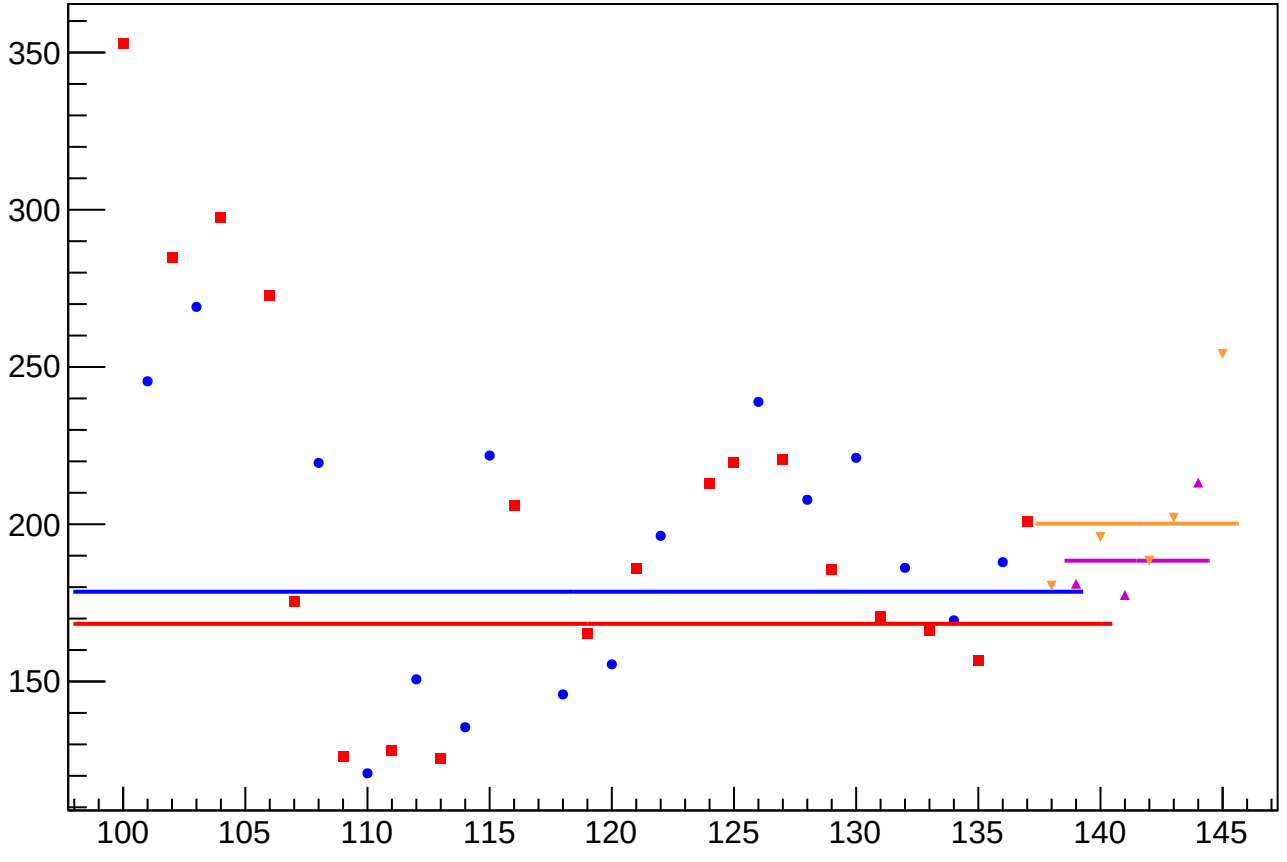
Right: -233.460+/-47.334 $\chi^2$/NDF: 10606.3/34

In: -866.827+/-59.644 $\chi^2$/NDF:15121.3/18

Out: -3432.086+/-55.339 $\chi^2$/NDF:5592.8/23

All: -2245.362+/-40.567 $\chi^2$/NDF: 21708.2/42

# asym_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 178.541+/-0.049 $\chi^2$/NDF: 674566.0/15

Left Out: 200.204+/-0.075 $\chi^2$/NDF:94946.8/4

Right Out: 168.335+/-0.046 $\chi^2$/NDF: 979485.9/18

Left In: 188.409+/-0.083 $\chi^2$/NDF:33476.2/2

Left: 194.899+/-0.056 $\chi^2$/NDF: 139531.5/7

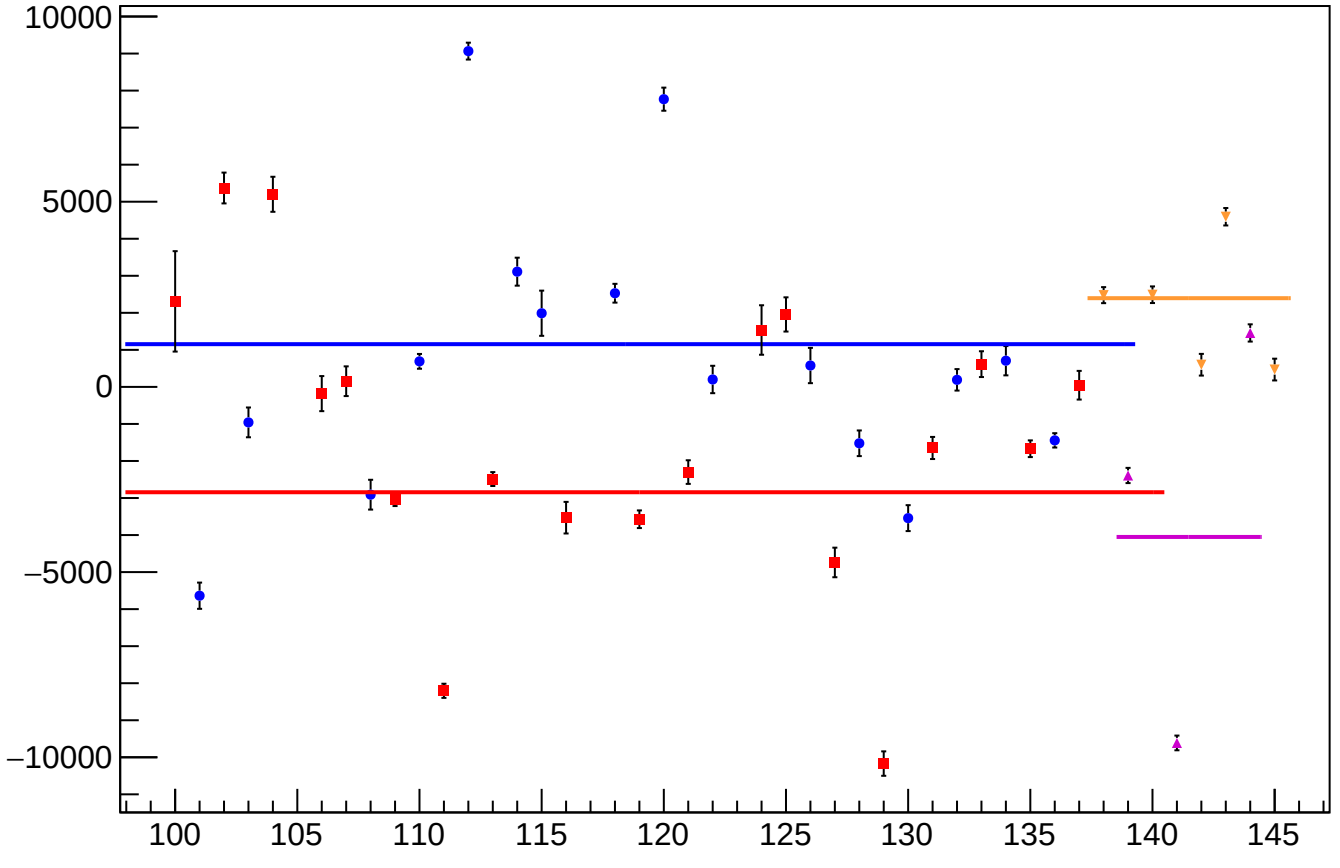
Right: 173.104+/-0.033 $\chi^2$/NDF: 1677198.9/34

In: 181.088+/-0.042 $\chi^2$/NDF:718526.6/18

Out: 176.997+/-0.039 $\chi^2$/NDF:1205724.9/23

All: 178.890+/-0.029 $\chi^2$/NDF: 1929307.6/42

# asym_bpm0i05WS_mean vs Slug, Sign Corrected




Right In: 1153.823+/-75.957 $\chi^2$/NDF: 2655.3/15

Left Out: 2395.439+/-110.109 $\chi^2$/NDF:168.2/4

Right Out: -2843.895+/-69.139 $\chi^2$/NDF: 2453.1/18

Left In: -4050.917+/-121.771 $\chi^2$/NDF:1407.4/2

Left: -504.364+/-81.671 $\chi^2$/NDF: 3117.4/7

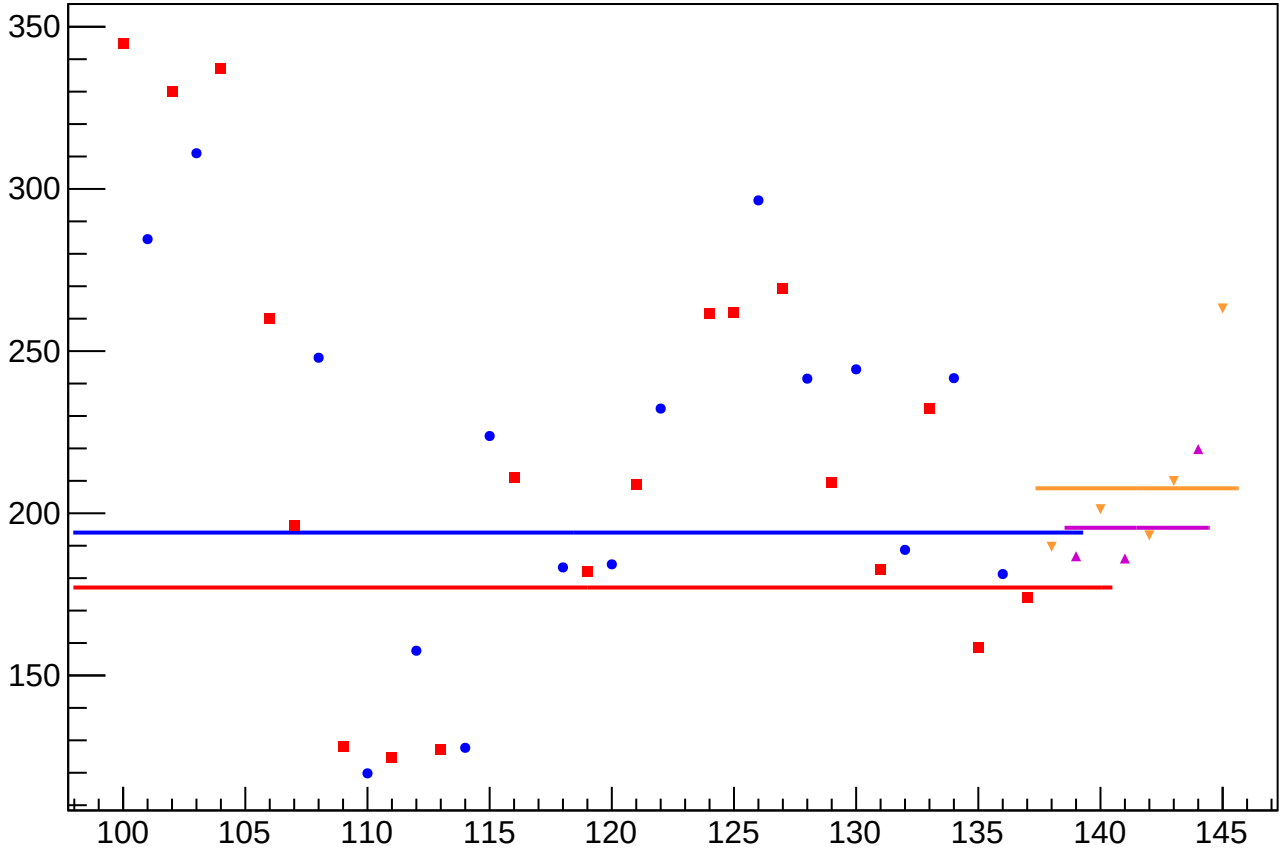
Right: -1032.468+/-51.129 $\chi^2$/NDF: 6623.4/34

In: -304.044+/-64.447 $\chi^2$/NDF:5377.9/18

Out: -1362.307+/-58.553 $\chi^2$/NDF:4245.2/23

All: -883.769+/-43.337 $\chi^2$/NDF: 9770.8/42

# asym_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 194.053+/-0.054 $\chi^2$/NDF: 965786.1/15

Left Out: 207.705+/-0.078 $\chi^2$/NDF:91838.9/4

Right Out: 177.115+/-0.049 $\chi^2$/NDF: 1359345.8/18

Left In: 195.534+/-0.086 $\chi^2$/NDF:29890.8/2

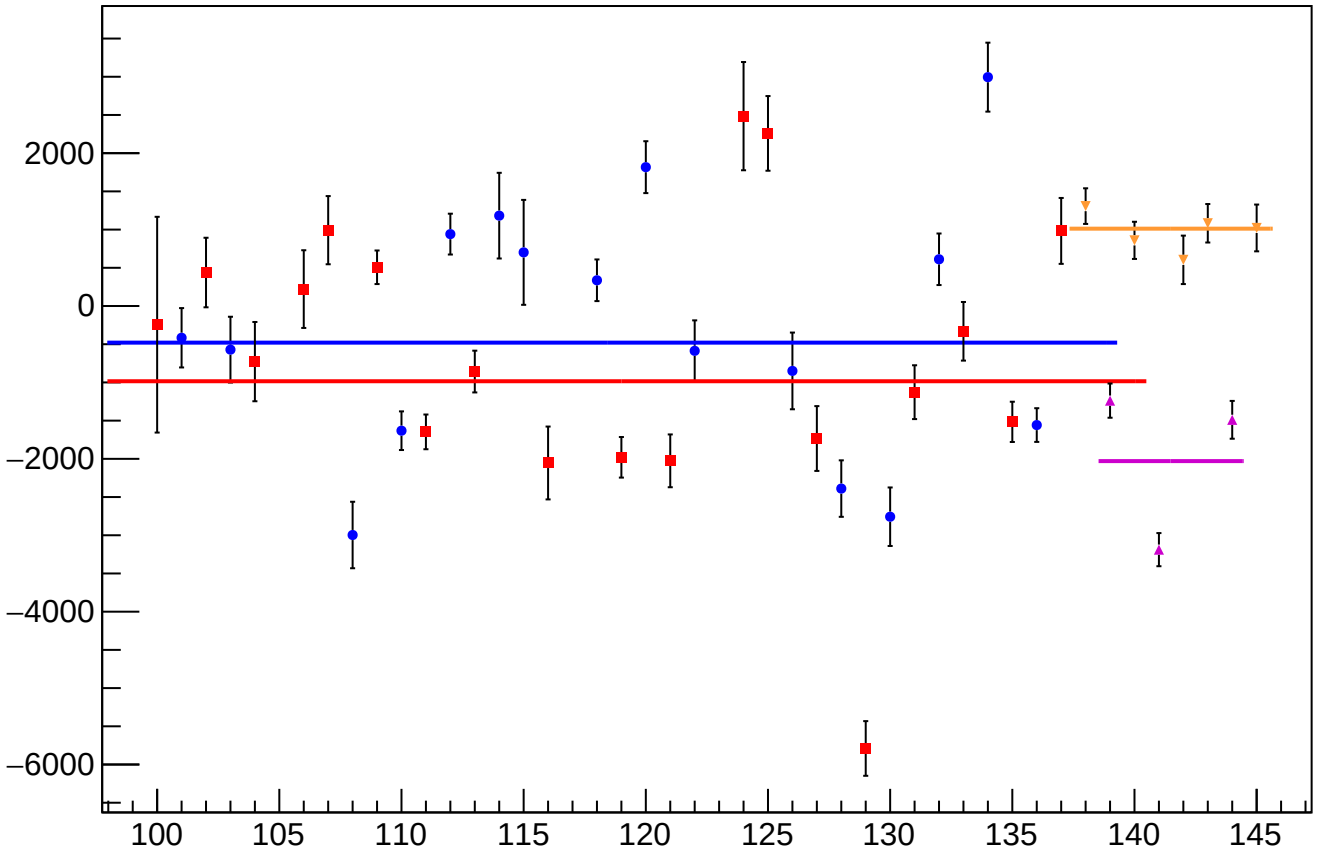
Left: 202.230+/-0.058 $\chi^2$/NDF: 132723.3/7

Right: 184.790+/-0.036 $\chi^2$/NDF: 2379520.9/34

In: 194.468+/-0.046 $\chi^2$/NDF:995889.8/18

Out: 185.765+/-0.041 $\chi^2$/NDF:1561898.6/23

All: 189.701+/-0.031 $\chi^2$/NDF: 2577765.0/42




Right In: -479.302+/-86.685 $\chi^2$/NDF: 305.4/15

Left Out: 1012.099+/-118.099 $\chi^2$/NDF:3.7/4

Right Out: -984.498+/-80.945 $\chi^2$/NDF: 398.1/18

Left In: -2029.548+/-131.776 $\chi^2$/NDF:45.8/2

Left: -342.729+/-87.948 $\chi^2$/NDF: 345.0/7

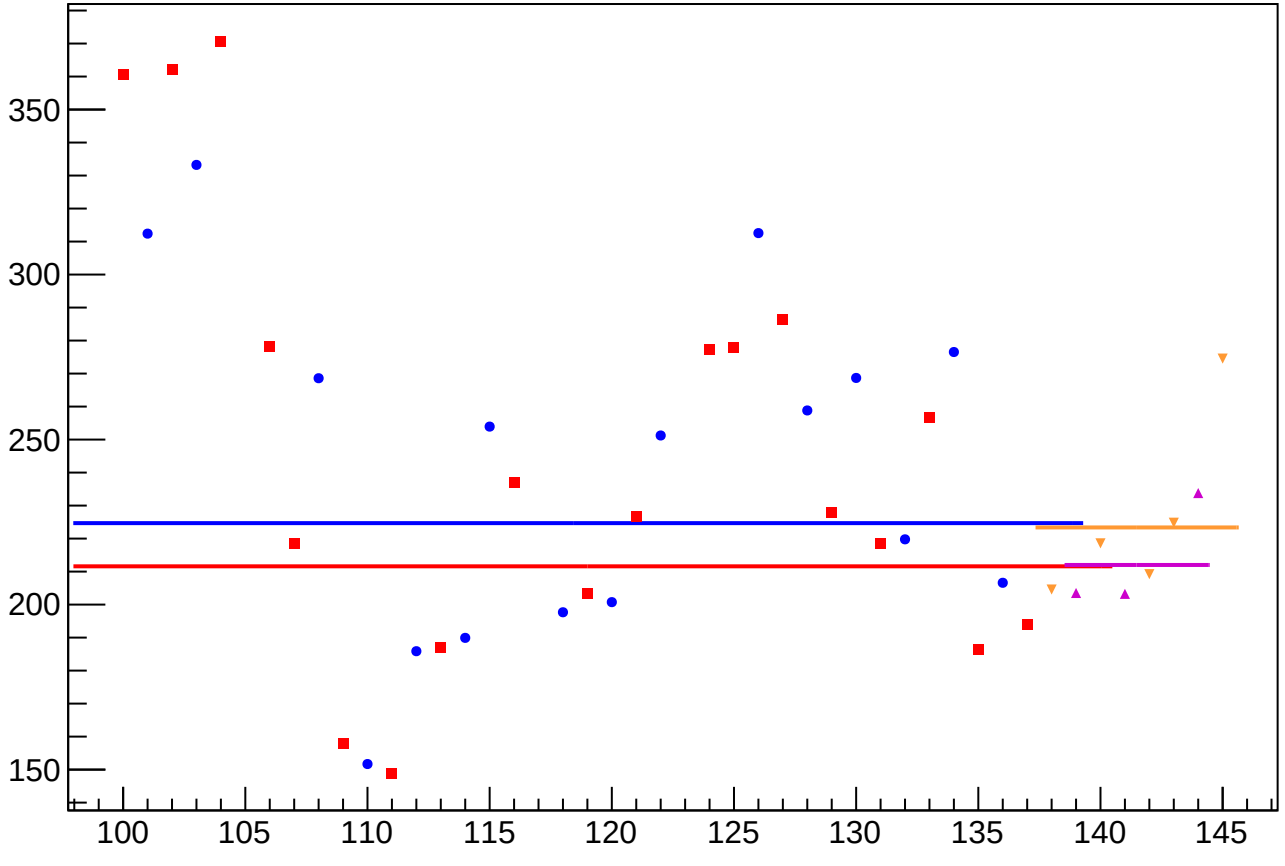
Right: -749.177+/-59.162 $\chi^2$/NDF: 721.7/34

In: -947.522+/-72.421 $\chi^2$/NDF:447.9/18

Out: -346.335+/-66.768 $\chi^2$/NDF:596.3/23

All: -622.552+/-49.089 $\chi^2$/NDF: 1081.5/42

# asym_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 224.683+/-0.061 $\chi^2$/NDF: 653193.4/15

Left Out: 223.377+/-0.084 $\chi^2$/NDF:73723.1/4

Right Out: 211.595+/-0.057 $\chi^2$/NDF: 932902.5/18

Left In: 212.007+/-0.093 $\chi^2$/NDF:21636.0/2

Left: 218.312+/-0.062 $\chi^2$/NDF: 103615.4/7

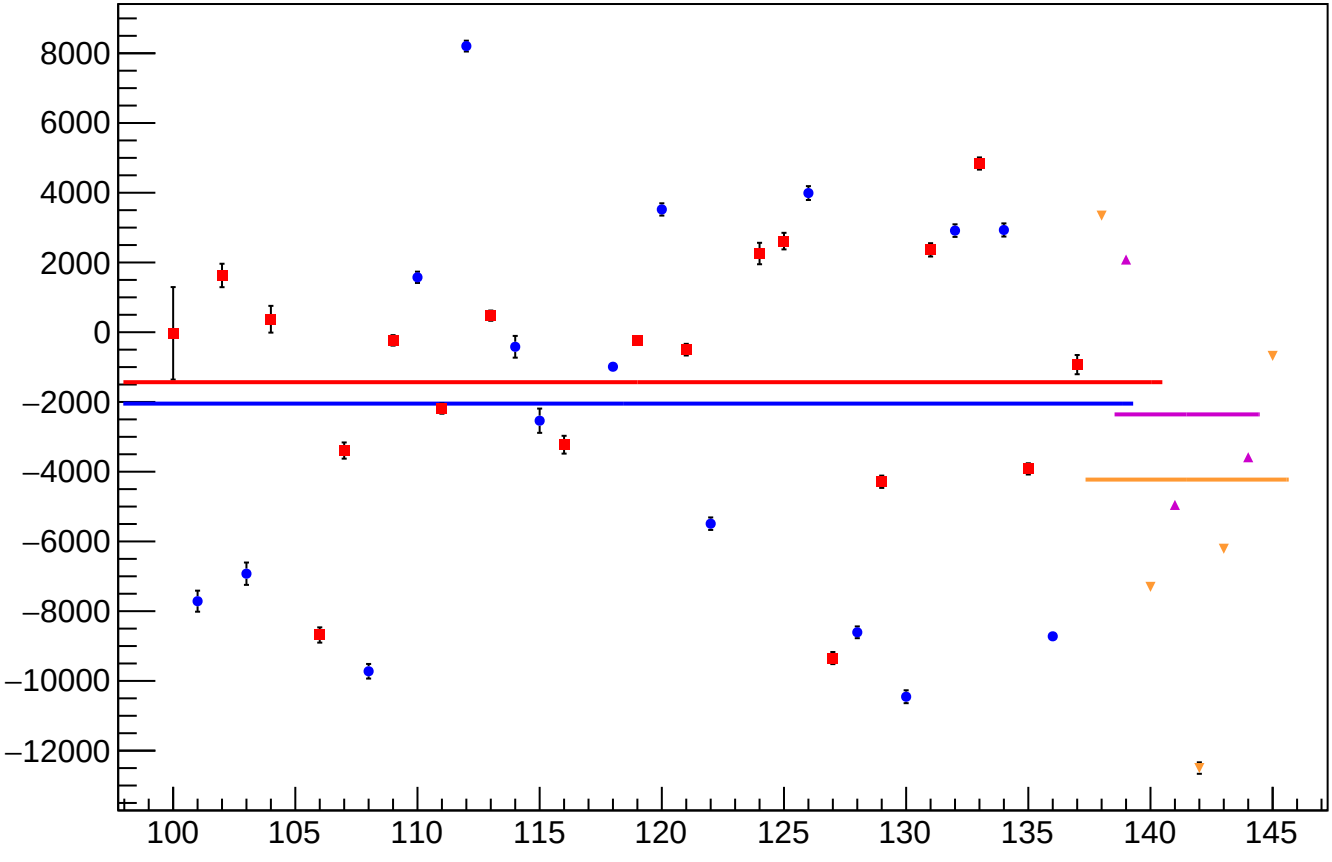
Right: 217.691+/-0.042 $\chi^2$/NDF: 1610450.2/34

In: 220.854+/-0.051 $\chi^2$/NDF:687745.0/18

Out: 215.361+/-0.047 $\chi^2$/NDF:1020168.3/23

All: 217.885+/-0.035 $\chi^2$/NDF: 1714134.3/42

# asym_bpm1i02WS_mean vs Slug, Sign Corrected




Right In: -2047.267+/-46.722 $\chi^2$/NDF: 16709.1/15

Left Out: -4226.315+/-60.029 $\chi^2$/NDF:7508.8/4

Right Out: -1432.909+/-44.729 $\chi^2$/NDF: 6387.8/18

Left In: -2356.719+/-69.363 $\chi^2$/NDF:1828.0/2

Left: -3425.687+/-45.391 $\chi^2$/NDF: 9752.2/7

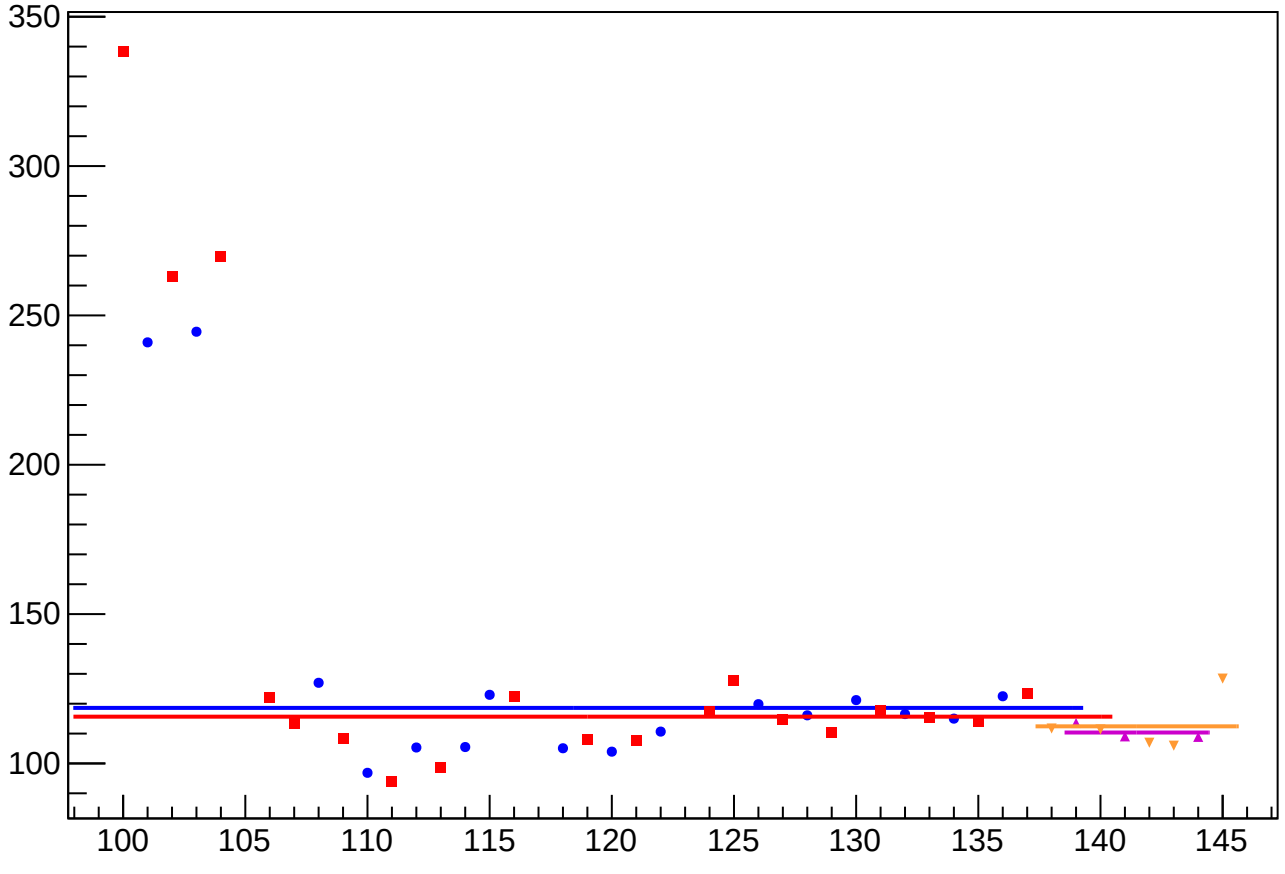
Right: -1726.707+/-32.310 $\chi^2$/NDF: 23187.1/34

In: -2143.849+/-38.751 $\chi^2$/NDF:18550.9/18

Out: -2430.152+/-35.867 $\chi^2$/NDF:15288.9/23

All: -2298.049+/-26.322 $\chi^2$/NDF: 33869.2/42

# asym_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 118.596+/-0.033 $\chi^2$/NDF: 734158.7/15

Left Out: 112.422+/-0.042 $\chi^2$/NDF:32545.2/4

Right Out: 115.660+/-0.032 $\chi^2$/NDF: 864206.3/18

Left In: 110.353+/-0.049 $\chi^2$/NDF:1824.0/2

Left: 111.536+/-0.032 $\chi^2$/NDF: 35386.0/7

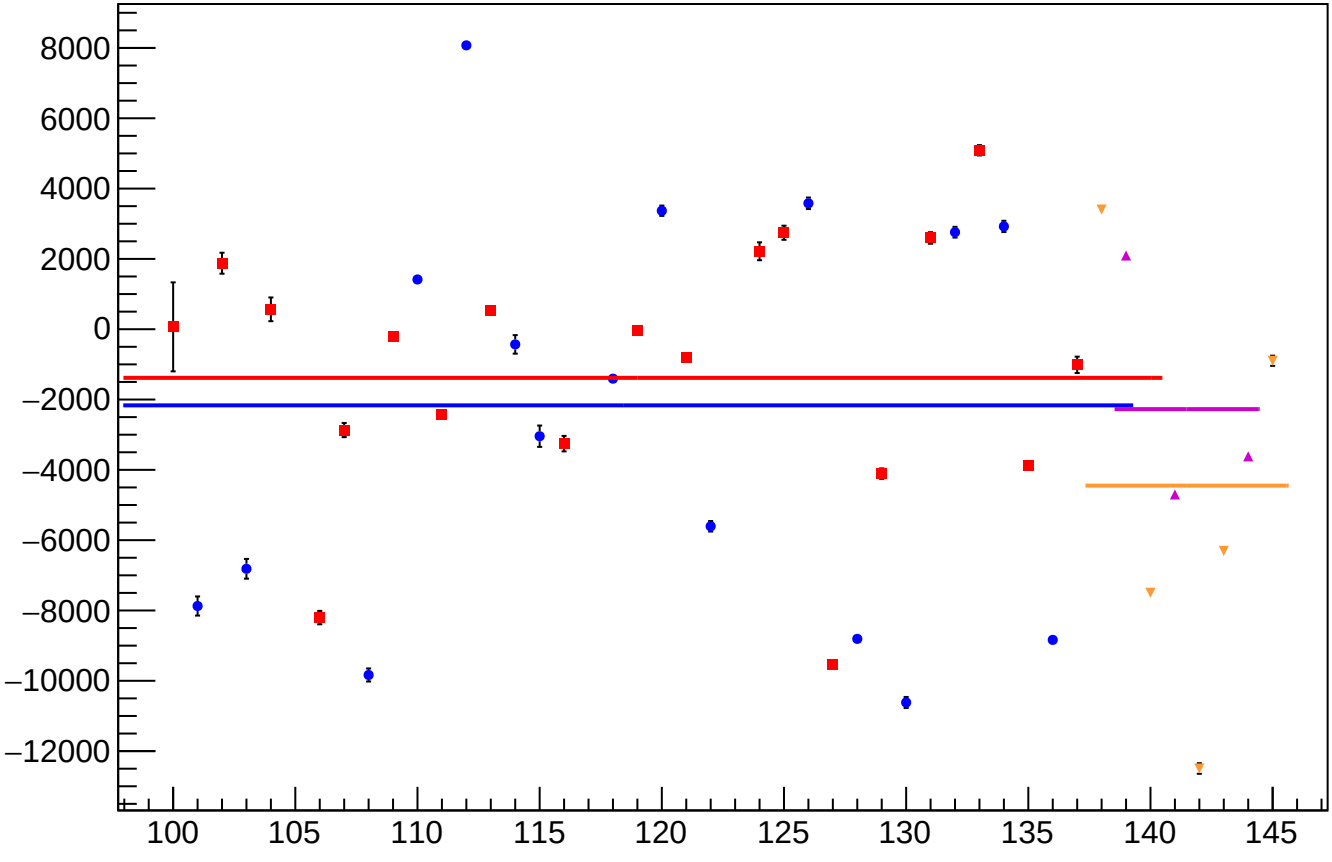
Right: 117.064+/-0.023 $\chi^2$/NDF: 1602486.6/34

In: 116.023+/-0.027 $\chi^2$/NDF:755410.3/18

Out: 114.504+/-0.025 $\chi^2$/NDF:900493.3/23

All: 115.205+/-0.019 $\chi^2$/NDF: 1657560.1/42

# asym_bpm1i04WS_mean vs Slug, Sign Corrected




Right In: -2165.877+/-39.632 $\chi^2$/NDF: 22874.8/15

Left Out: -4448.578+/-55.215 $\chi^2$/NDF:9031.1/4

Right Out: -1383.103+/-37.976 $\chi^2$/NDF: 9148.6/18

Left In: -2272.911+/-64.171 $\chi^2$/NDF:2072.5/2

Left: -3523.045+/-41.854 $\chi^2$/NDF: 11764.1/7

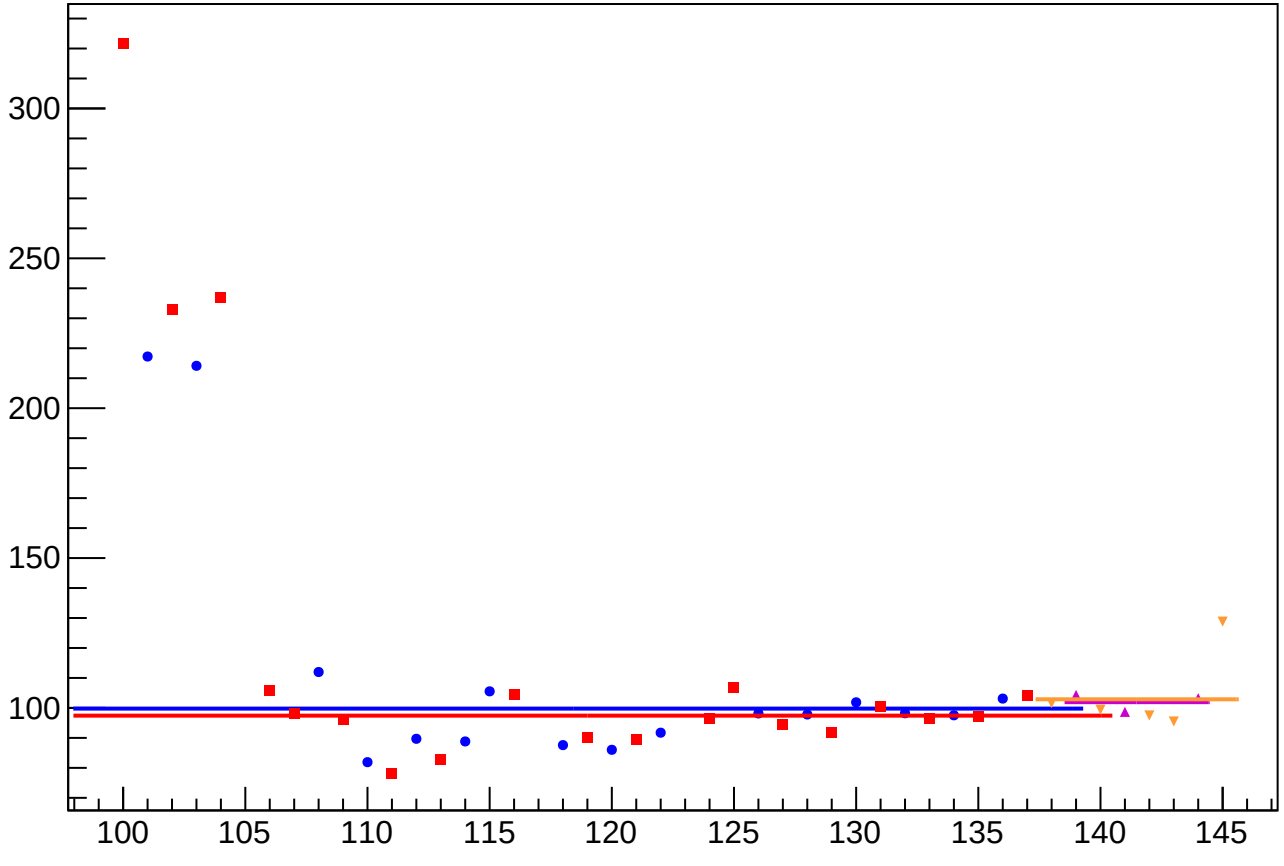
Right: -1757.793+/-27.420 $\chi^2$/NDF: 32226.8/34

In: -2195.431+/-33.719 $\chi^2$/NDF:24949.4/18

Out: -2367.531+/-31.289 $\chi^2$/NDF:20272.2/23

All: -2287.905+/-22.936 $\chi^2$/NDF: 45235.6/42

# asym_bpm1i04WS_rms vs Slug, Sign Corrected




Right In: 99.775+/-0.028 $\chi^2$/NDF: 809152.9/15

Left Out: 102.877+/-0.039 $\chi^2$/NDF:77592.8/4

Right Out: 97.428+/-0.027 $\chi^2$/NDF: 926047.7/18

Left In: 101.926+/-0.045 $\chi^2$/NDF:2981.7/2

Left: 102.472+/-0.030 $\chi^2$/NDF: 80826.6/7

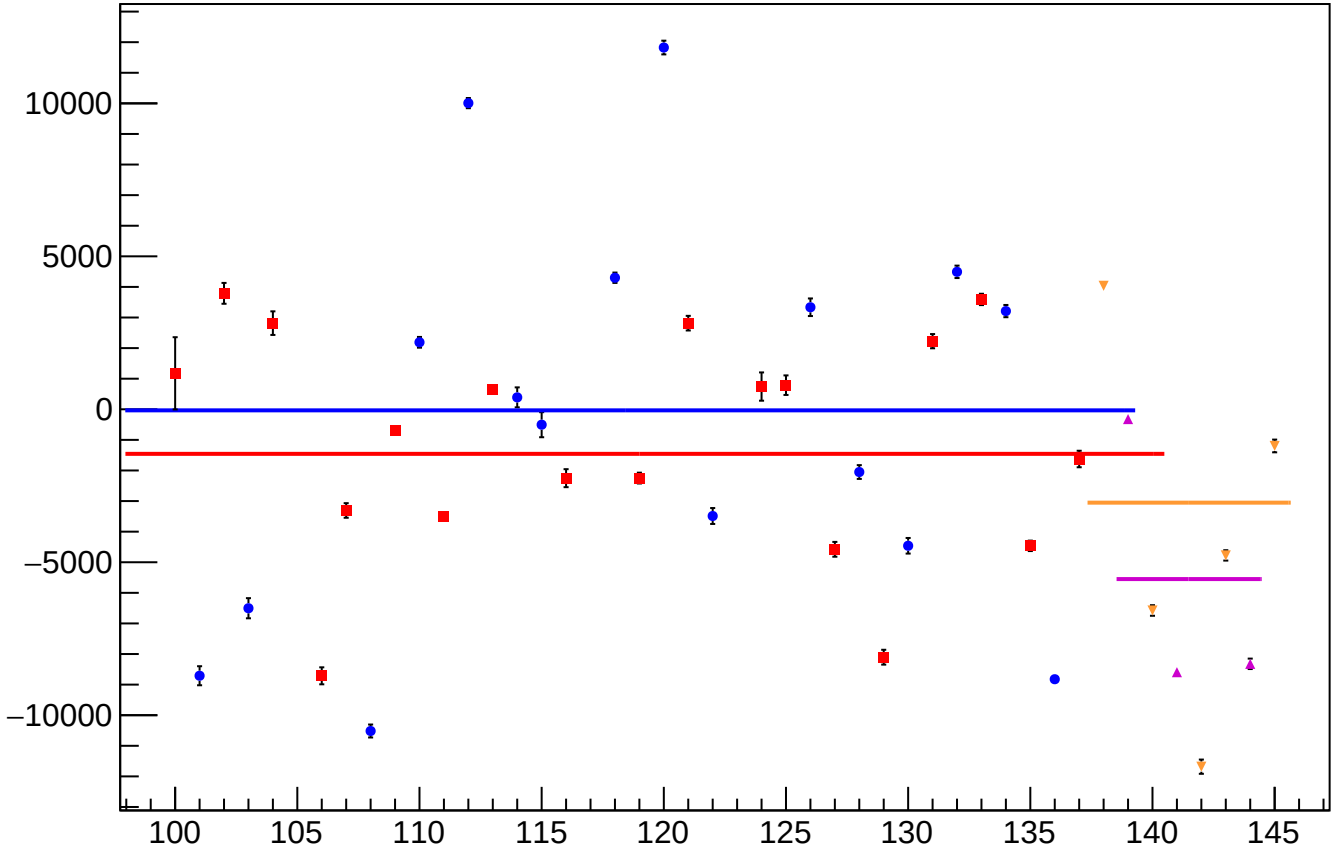
Right: 98.551+/-0.019 $\chi^2$/NDF: 1738857.3/34

In: 100.369+/-0.024 $\chi^2$/NDF:813762.1/18

Out: 99.177+/-0.022 $\chi^2$/NDF:1016863.8/23

All: 99.729+/-0.016 $\chi^2$/NDF: 1831967.1/42

# asym_bpm1i06WS_mean vs Slug, Sign Corrected




Right In: -34.667+/-53.465 $\chi^2$/NDF: 16802.8/15

Left Out: -3051.798+/-81.263 $\chi^2$/NDF:4063.1/4

Right Out: -1456.665+/-51.946 $\chi^2$/NDF: 4117.0/18

Left In: -5549.954+/-95.133 $\chi^2$/NDF:1683.8/2

Left: -4105.657+/-61.789 $\chi^2$/NDF: 6145.6/7

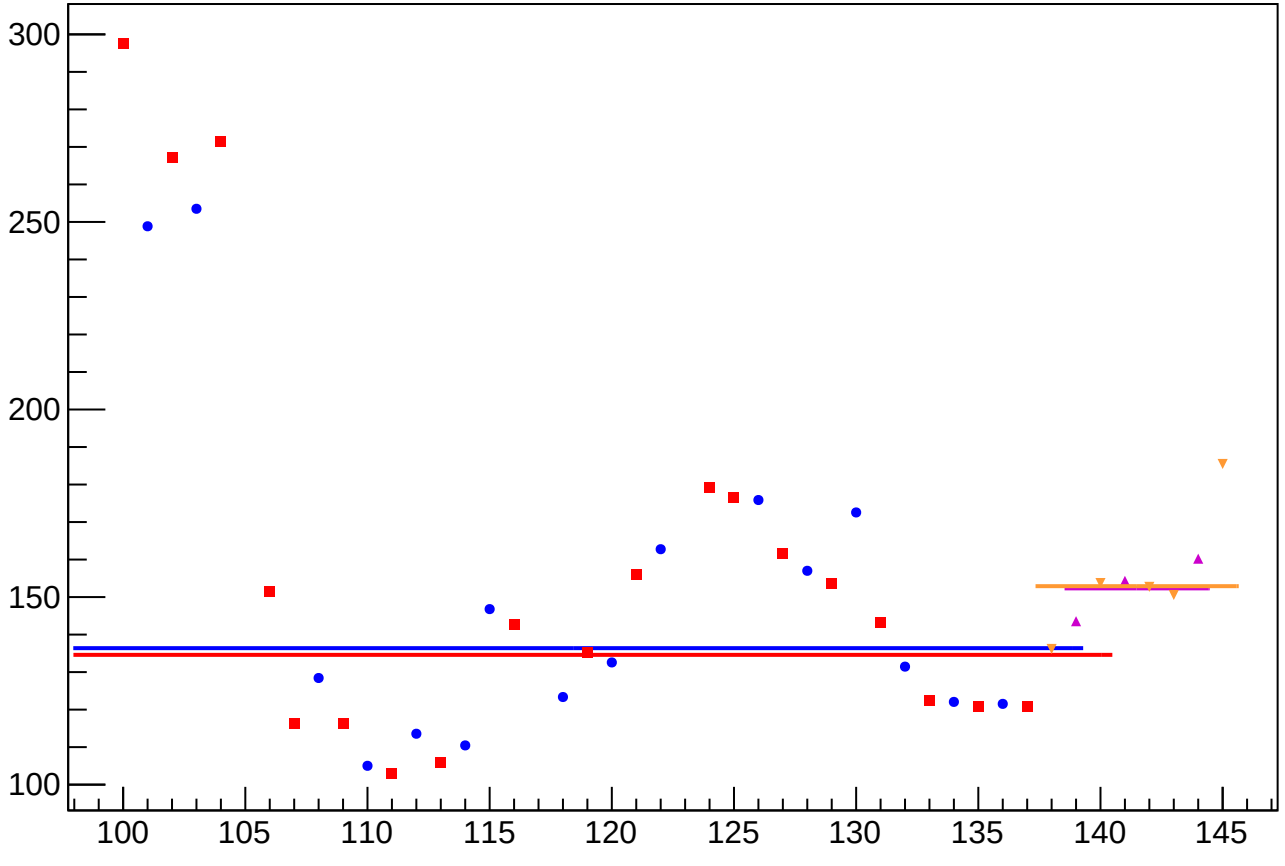
Right: -766.160+/-37.257 $\chi^2$/NDF: 21283.7/34

In: -1358.535+/-46.609 $\chi^2$/NDF:21040.9/18

Out: -1919.386+/-43.768 $\chi^2$/NDF:8453.7/23

All: -1656.574+/-31.906 $\chi^2$/NDF: 29571.5/42

# asym_bpm1i06WS_rms vs Slug, Sign Corrected




Right In: 136.383+/-0.038 $\chi^2$/NDF: 796855.7/15

Left Out: 152.906+/-0.057 $\chi^2$/NDF:72765.5/4

Right Out: 134.598+/-0.037 $\chi^2$/NDF: 919605.2/18

Left In: 152.319+/-0.067 $\chi^2$/NDF:10662.4/2

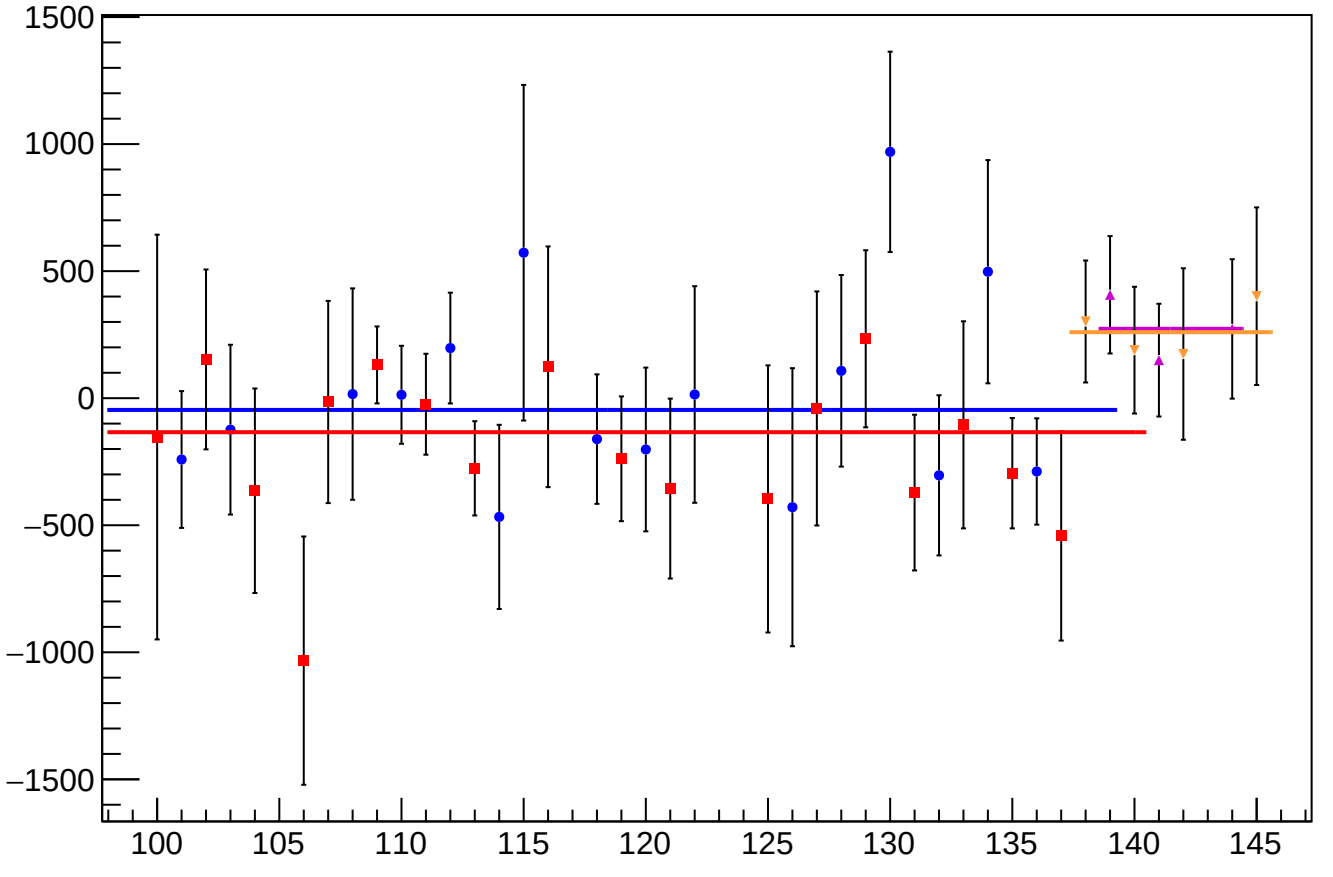
Left: 152.659+/-0.044 $\chi^2$/NDF: 83471.9/7

Right: 135.465+/-0.026 $\chi^2$/NDF: 1717607.6/34

In: 140.209+/-0.033 $\chi^2$/NDF:850166.8/18

Out: 139.909+/-0.031 $\chi^2$/NDF:1064435.8/23

All: 140.049+/-0.023 $\chi^2$/NDF: 1914646.5/42




Right In: -46.199+/-76.283 $\chi^2$/NDF: 15.5/15

Left Out: 259.763+/-140.841 $\chi^2$/NDF:0.3/3

Right Out: -133.913+/-68.414 $\chi^2$/NDF: 12.8/17

Left In: 273.004+/-138.228 $\chi^2$/NDF:0.6/2

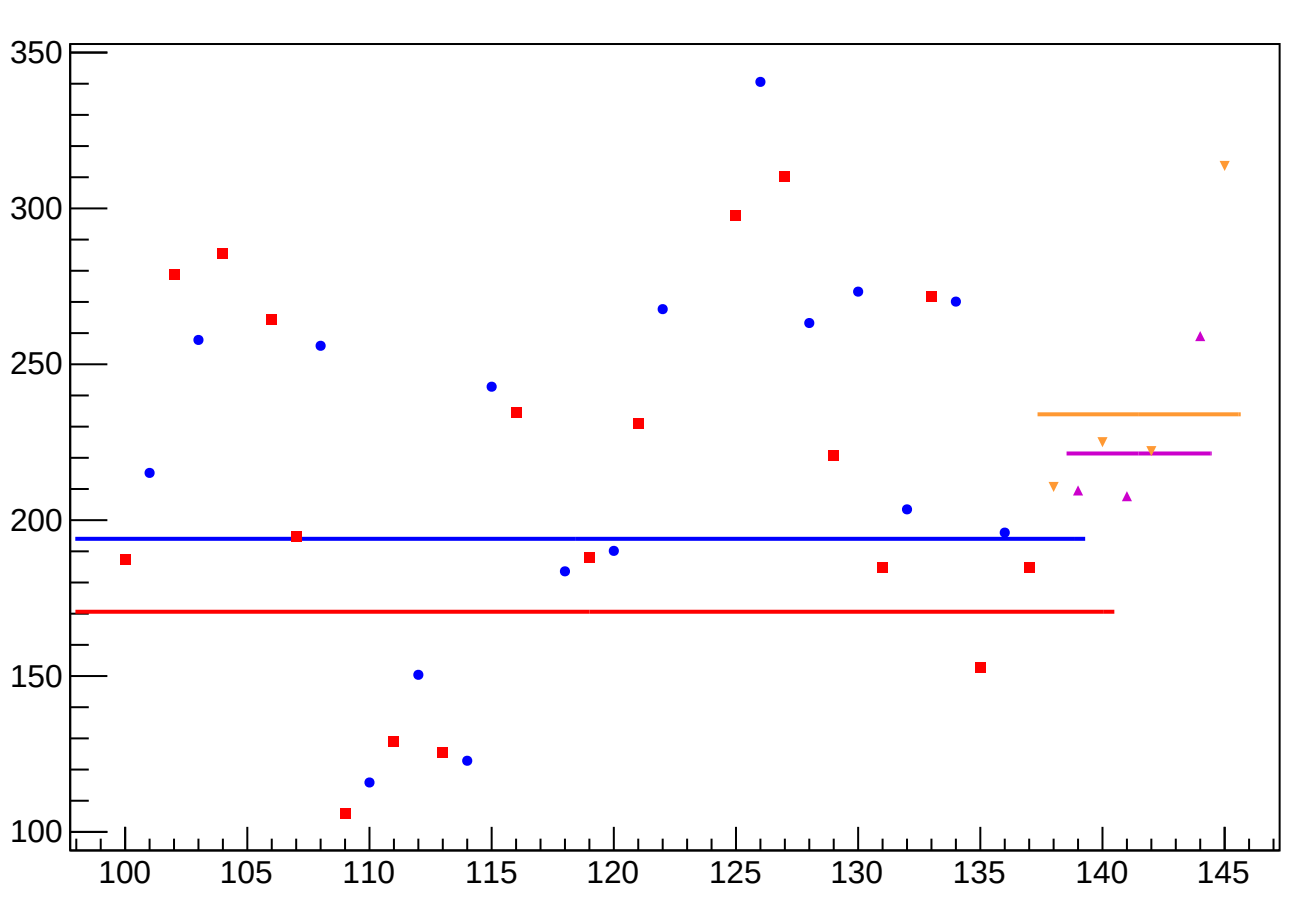
Left: 266.507+/-98.653 $\chi^2$/NDF: 1.0/6

Right: -94.812+/-50.931 $\chi^2$/NDF: 29.0/33

In: 28.320+/-66.788 $\chi^2$/NDF:20.2/18

Out: -58.757+/-61.538 $\chi^2$/NDF:19.5/21

All: -18.775+/-45.256 $\chi^2$/NDF: 40.6/40




Right In: 194.017+/-0.054 $\chi^2$/NDF: 1043588.7/15

Left Out: 233.956+/-0.100 $\chi^2$/NDF:127840.9/3

Right Out: 170.624+/-0.048 $\chi^2$/NDF: 1593735.4/17

Left In: 221.389+/-0.098 $\chi^2$/NDF:50576.3/2

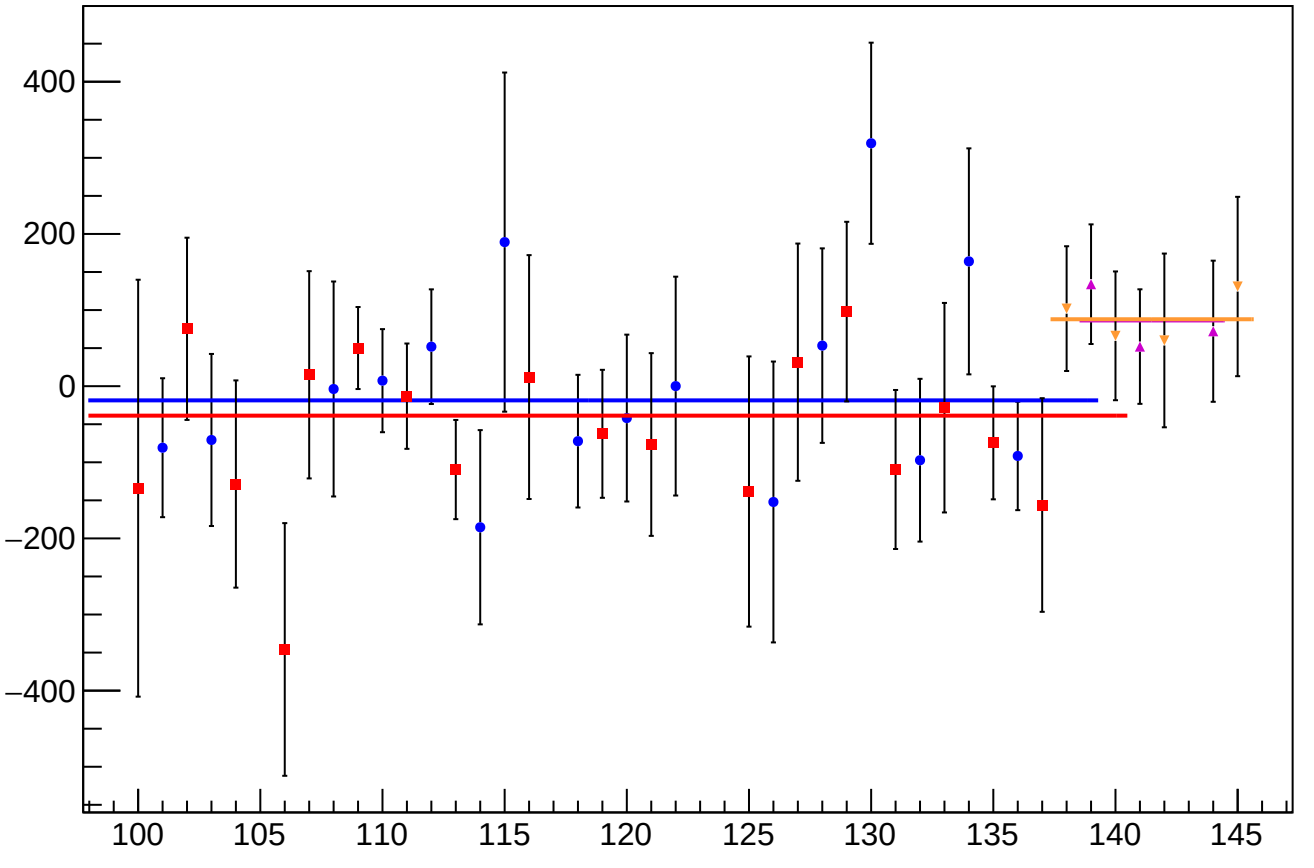
Left: 227.555+/-0.070 $\chi^2$/NDF: 186527.9/6

Right: 181.052+/-0.036 $\chi^2$/NDF: 2741566.5/33

In: 200.407+/-0.047 $\chi^2$/NDF:1154280.5/18

Out: 182.714+/-0.044 $\chi^2$/NDF:2048779.9/21

All: 190.838+/-0.032 $\chi^2$/NDF: 3278970.5/40




Right In: -18.645+/-26.122 $\chi^2$/NDF: 15.2/15

Left Out: 87.926+/-47.814 $\chi^2$/NDF:0.3/3

Right Out: -38.716+/-23.652 $\chi^2$/NDF: 12.6/17

Left In: 86.363+/-46.886 $\chi^2$/NDF:0.6/2

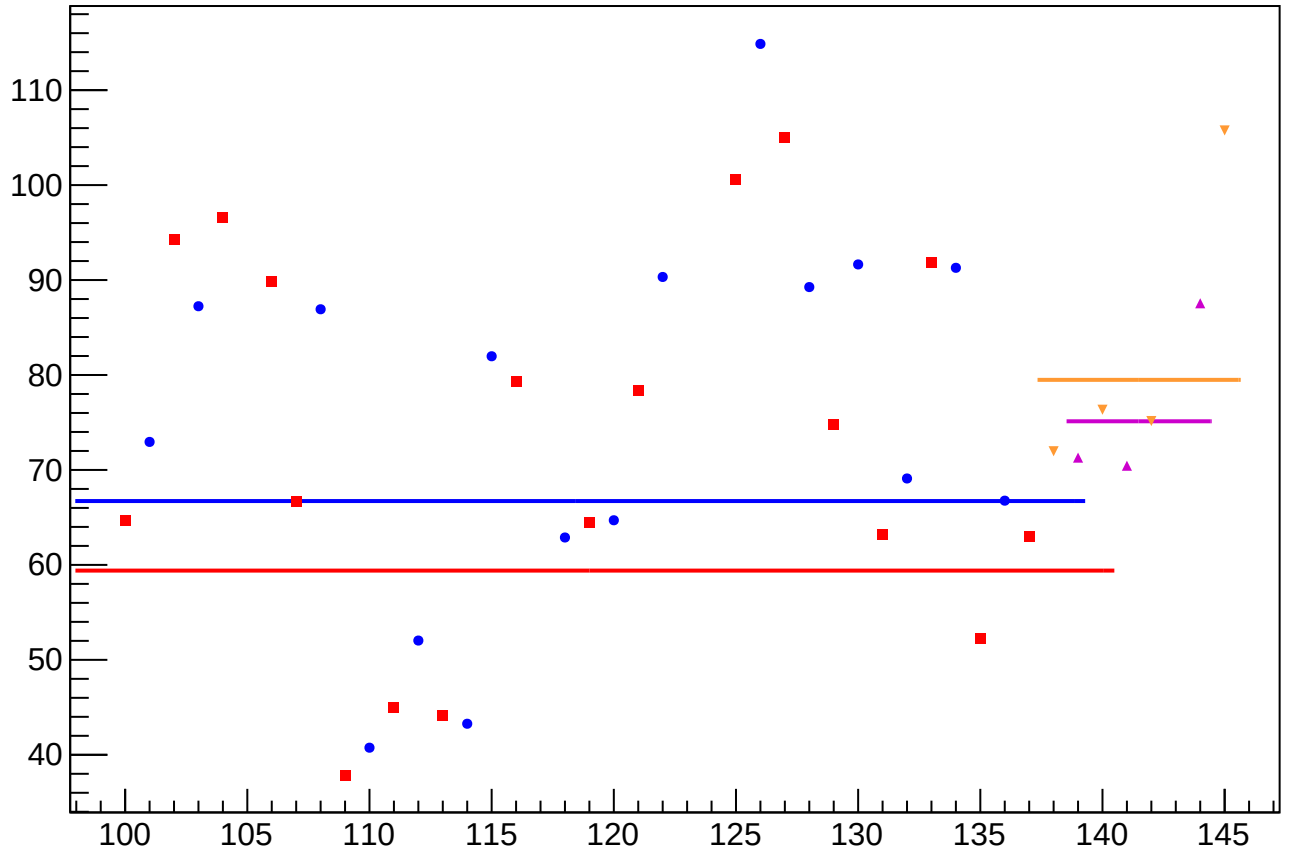
Left: 87.129+/-33.477 $\chi^2$/NDF: 0.9/6

Right: -29.674+/-17.533 $\chi^2$/NDF: 28.2/33

In: 6.229+/-22.820 $\chi^2$/NDF:19.6/18

Out: -13.820+/-21.200 $\chi^2$/NDF:18.5/21

All: -4.532+/-15.532 $\chi^2$/NDF: 38.6/40




Right In: 66.724+/-0.018 $\chi^2$/NDF: 947040.2/15

Left Out: 79.488+/-0.034 $\chi^2$/NDF:121892.6/3

Right Out: 59.400+/-0.017 $\chi^2$/NDF: 1445371.1/17

Left In: 75.125+/-0.033 $\chi^2$/NDF:48417.2/2

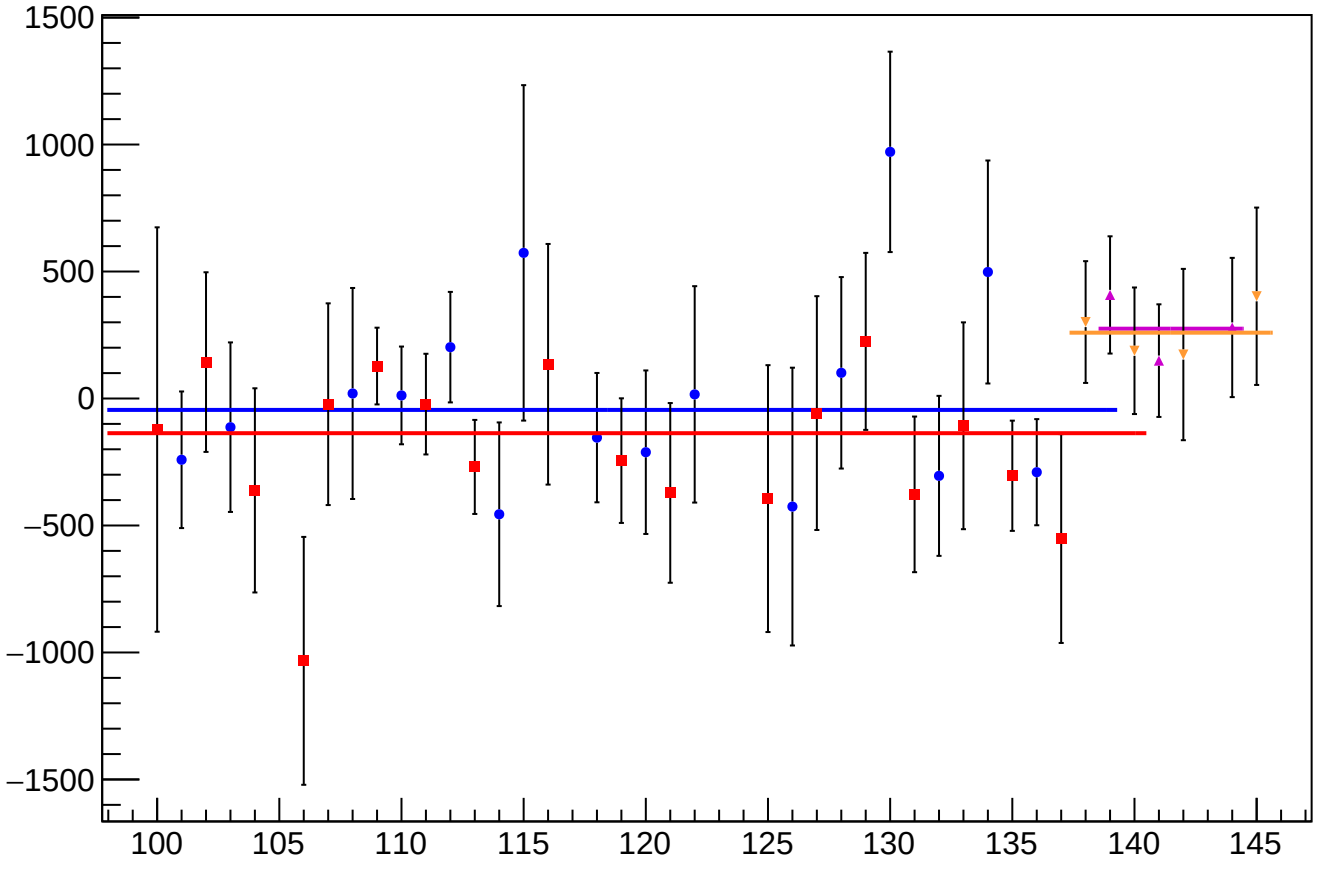
Left: 77.263+/-0.024 $\chi^2$/NDF: 178800.1/6

Right: 62.700+/-0.012 $\chi^2$/NDF: 2478799.5/33

In: 68.714+/-0.016 $\chi^2$/NDF:1044448.3/18

Out: 63.349+/-0.015 $\chi^2$/NDF:1850860.6/21

All: 65.835+/-0.011 $\chi^2$/NDF: 2954638.4/40




Right In: -44.917+/-76.198 $\chi^2$/NDF: 15.5/15

Left Out: 259.179+/-140.722 $\chi^2$/NDF:0.3/3

Right Out: -136.579+/-68.322 $\chi^2$/NDF: 12.9/17

Left In: 274.873+/-138.122 $\chi^2$/NDF:0.7/2

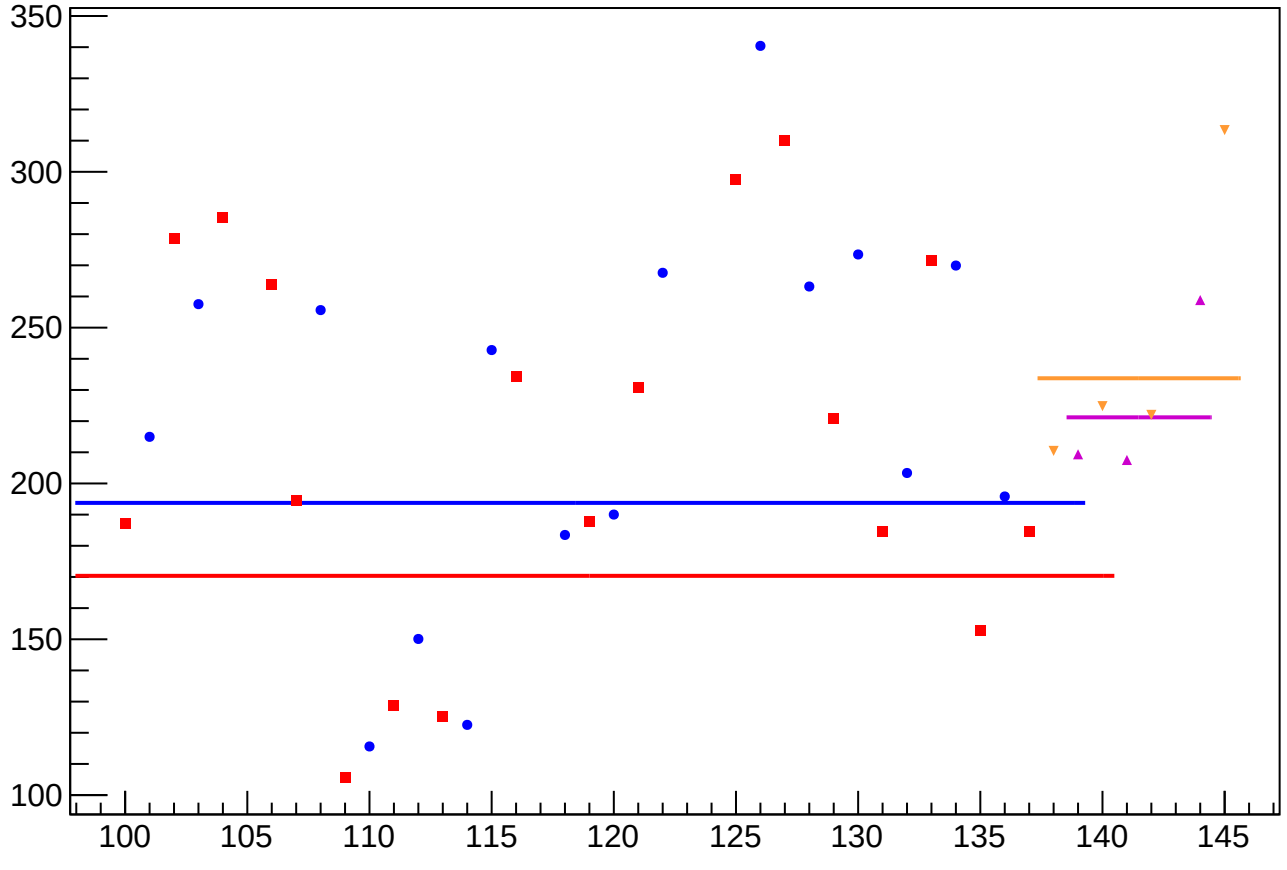
Left: 267.172+/-98.574 $\chi^2$/NDF: 1.0/6

Right: -95.728+/-50.868 $\chi^2$/NDF: 29.1/33

In: 29.700+/-66.719 $\chi^2$/NDF:20.2/18

Out: -61.086+/-61.461 $\chi^2$/NDF:19.6/21

All: -19.411+/-45.204 $\chi^2$/NDF: 40.8/40




Right In: 193.768+/-0.054 $\chi^2$/NDF: 1048095.1/15

Left Out: 233.756+/-0.100 $\chi^2$/NDF:127928.8/3

Right Out: 170.358+/-0.048 $\chi^2$/NDF: 1599025.1/17

Left In: 221.218+/-0.098 $\chi^2$/NDF:50583.0/2

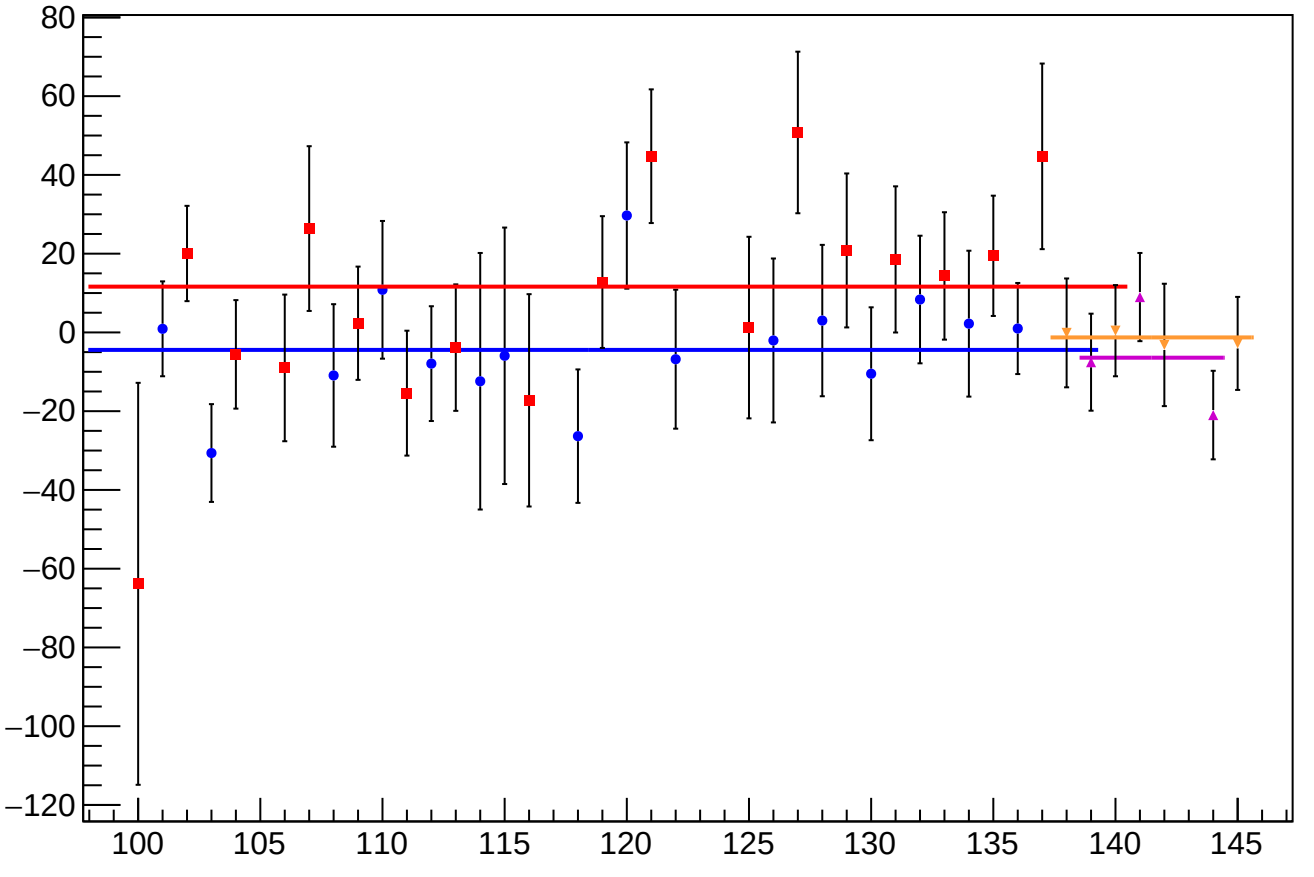
Left: 227.370+/-0.070 $\chi^2$/NDF: 186597.8/6

Right: 180.791+/-0.036 $\chi^2$/NDF: 2751765.9/33

In: 200.173+/-0.047 $\chi^2$/NDF:1159241.7/18

Out: 182.451+/-0.043 $\chi^2$/NDF:2055456.4/21

All: 190.586+/-0.032 $\chi^2$/NDF: 3291026.8/40




Right In: -4.440+/-4.131 $\chi^2$/NDF: 12.0/15

Left Out: -1.270+/-6.455 $\chi^2$/NDF:0.1/3

Right Out: 11.627+/-4.137 $\chi^2$/NDF: 21.6/17

Left In: -6.419+/-6.670 $\chi^2$/NDF:3.6/2

Left: -3.760+/-4.638 $\chi^2$/NDF: 3.9/6

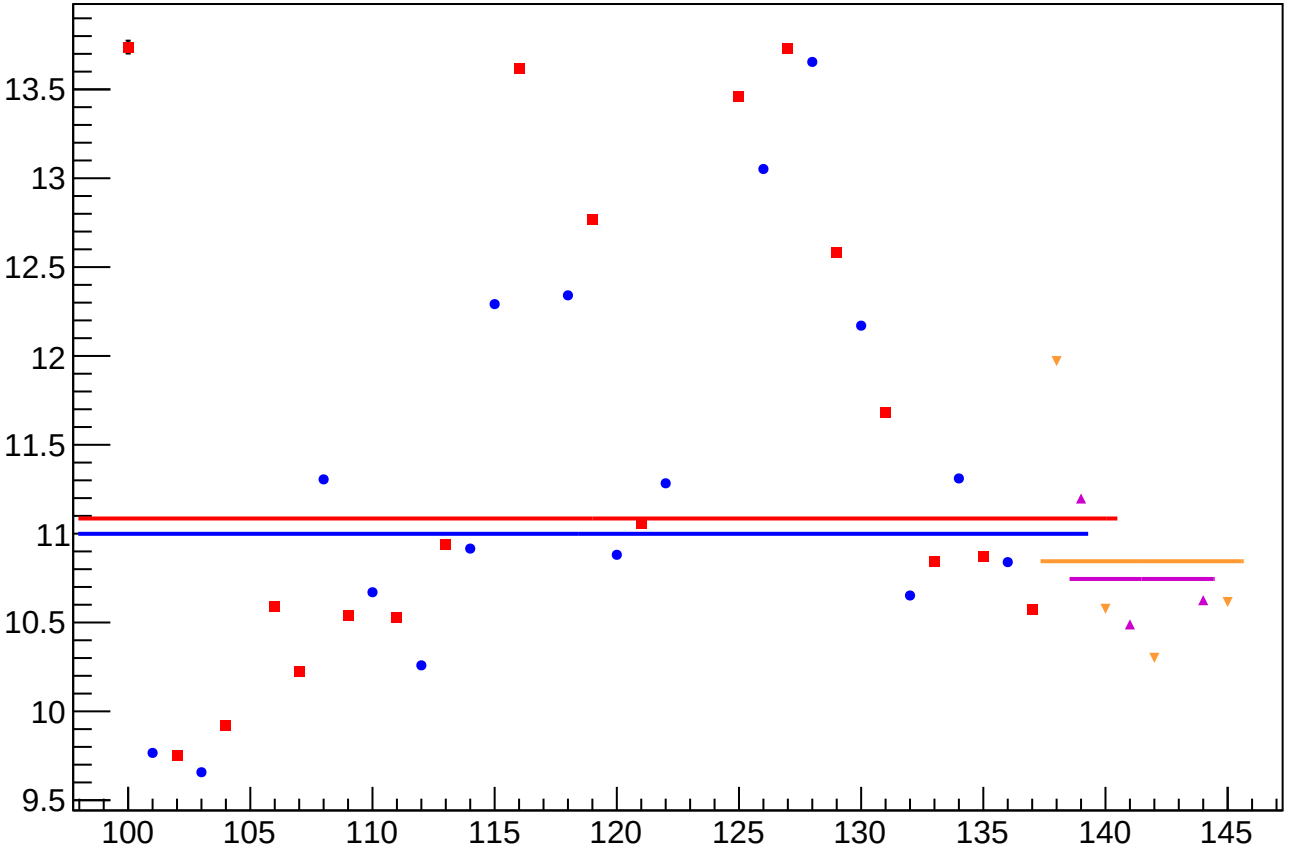
Right: 3.582+/-2.923 $\chi^2$/NDF: 41.2/33

In: -4.989+/-3.512 $\chi^2$/NDF:15.6/18

Out: 7.872+/-3.483 $\chi^2$/NDF:24.5/21

All: 1.495+/-2.473 $\chi^2$/NDF: 46.9/40

# asym_bcm_an_us_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 10.999+/-0.003 $\chi^2$/NDF: 136159.2/15

Left Out: 10.845+/-0.005 $\chi^2$/NDF:17548.7/3

Right Out: 11.085+/-0.003 $\chi^2$/NDF: 162204.2/17

Left In: 10.745+/-0.005 $\chi^2$/NDF:3970.0/2

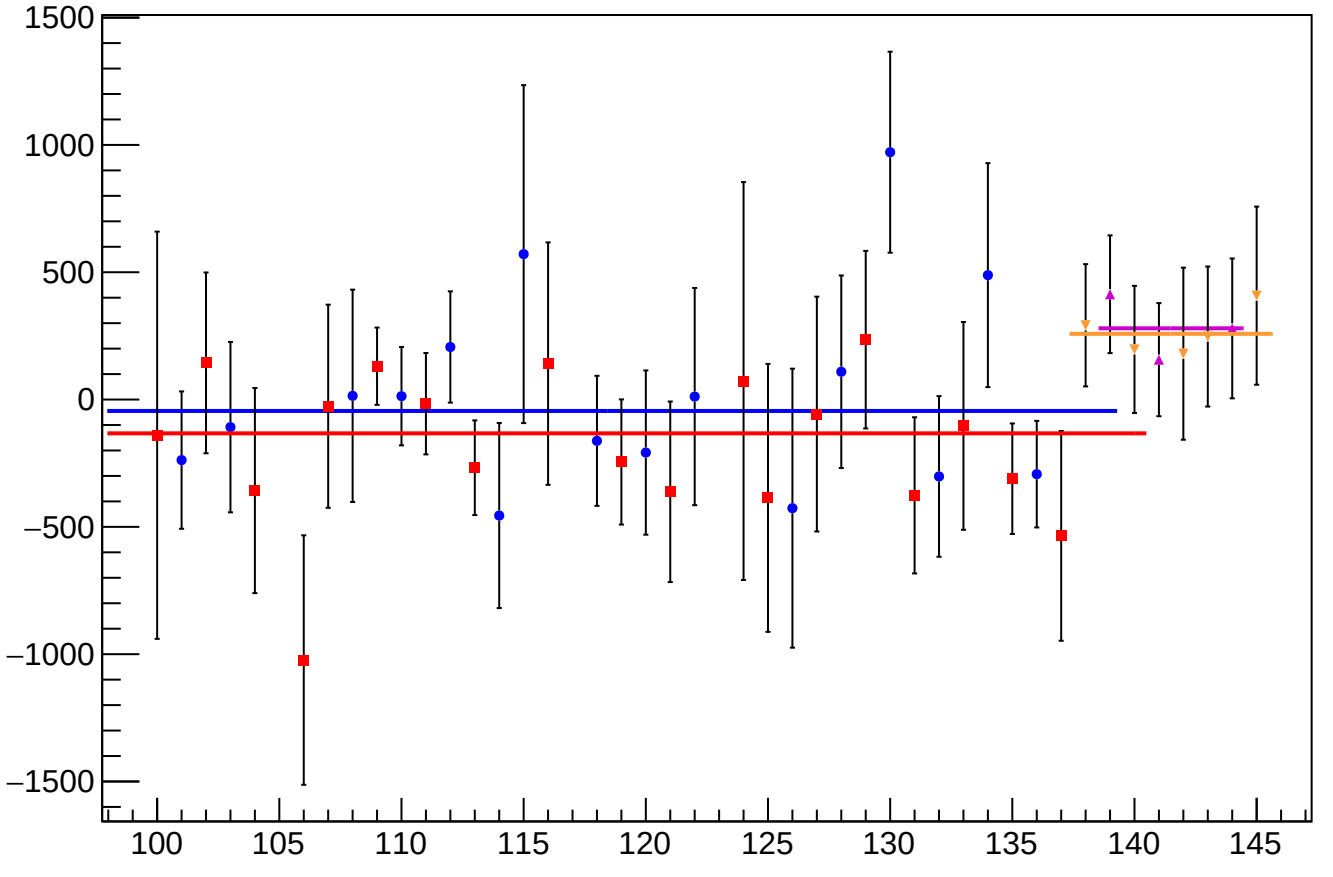
Left: 10.797+/-0.003 $\chi^2$/NDF: 21749.6/6

Right: 11.042+/-0.002 $\chi^2$/NDF: 298798.9/33

In: 10.929+/-0.002 $\chi^2$/NDF:142225.4/18

Out: 11.015+/-0.002 $\chi^2$/NDF:181721.9/21

All: 10.972+/-0.002 $\chi^2$/NDF: 324561.1/40




Right In: -44.797+/-76.424 $\chi^2$/NDF: 15.4/15

Left Out: 258.130+/-125.440 $\chi^2$/NDF:0.3/4

Right Out: -132.730+/-68.270 $\chi^2$/NDF: 12.9/18

Left In: 279.765+/-138.349 $\chi^2$/NDF:0.6/2

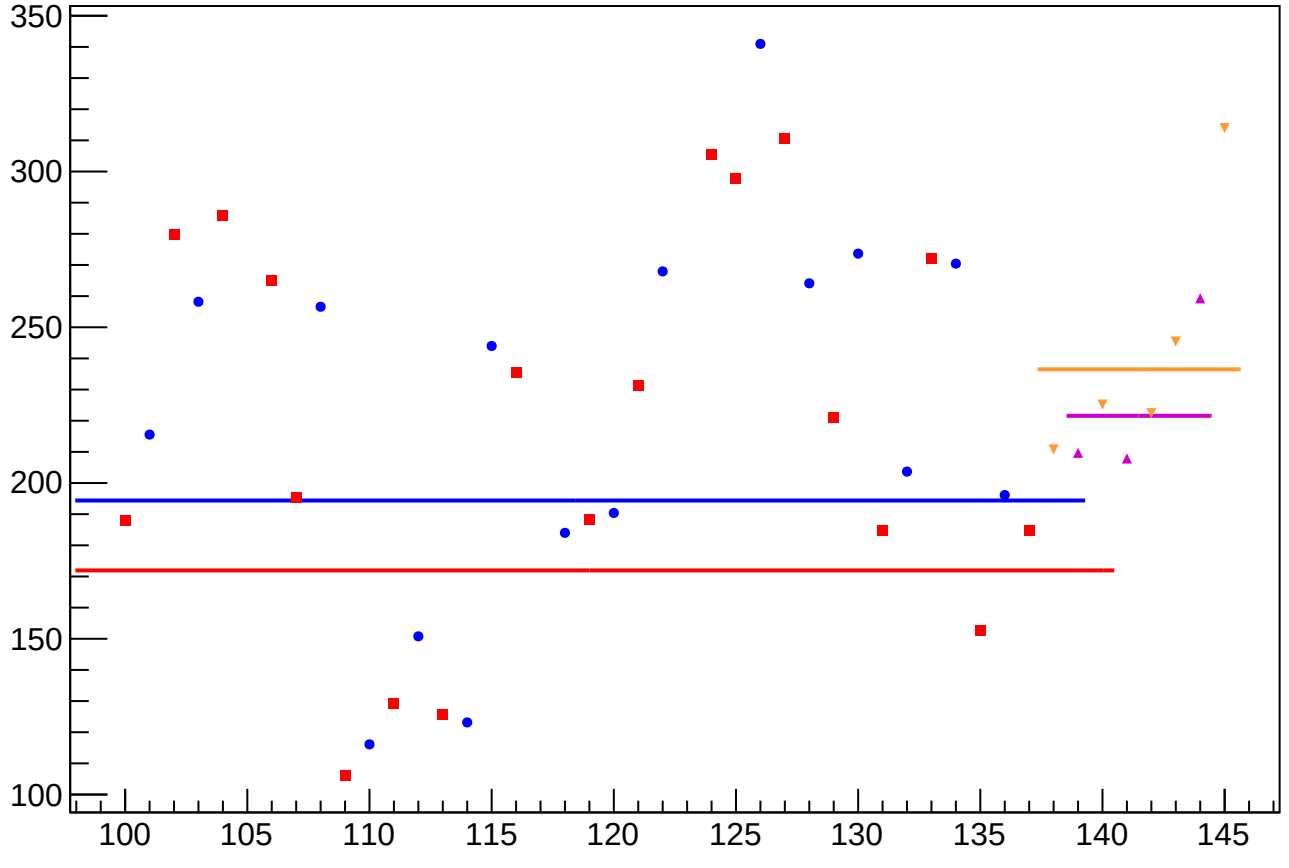
Left: 267.891+/-92.929 $\chi^2$/NDF: 1.0/7

Right: -93.703+/-50.914 $\chi^2$/NDF: 29.0/34

In: 31.085+/-66.896 $\chi^2$/NDF:20.3/18

Out: -43.413+/-59.964 $\chi^2$/NDF:20.7/23

All: -10.222+/-44.651 $\chi^2$/NDF: 41.6/42




Right In: 194.385+/-0.054 $\chi^2$/NDF: 1042024.1/15

Left Out: 236.504+/-0.089 $\chi^2$/NDF:130628.1/4

Right Out: 171.949+/-0.048 $\chi^2$/NDF: 1651343.7/18

Left In: 221.579+/-0.098 $\chi^2$/NDF:50628.5/2

Left: 229.770+/-0.066 $\chi^2$/NDF: 194030.9/7

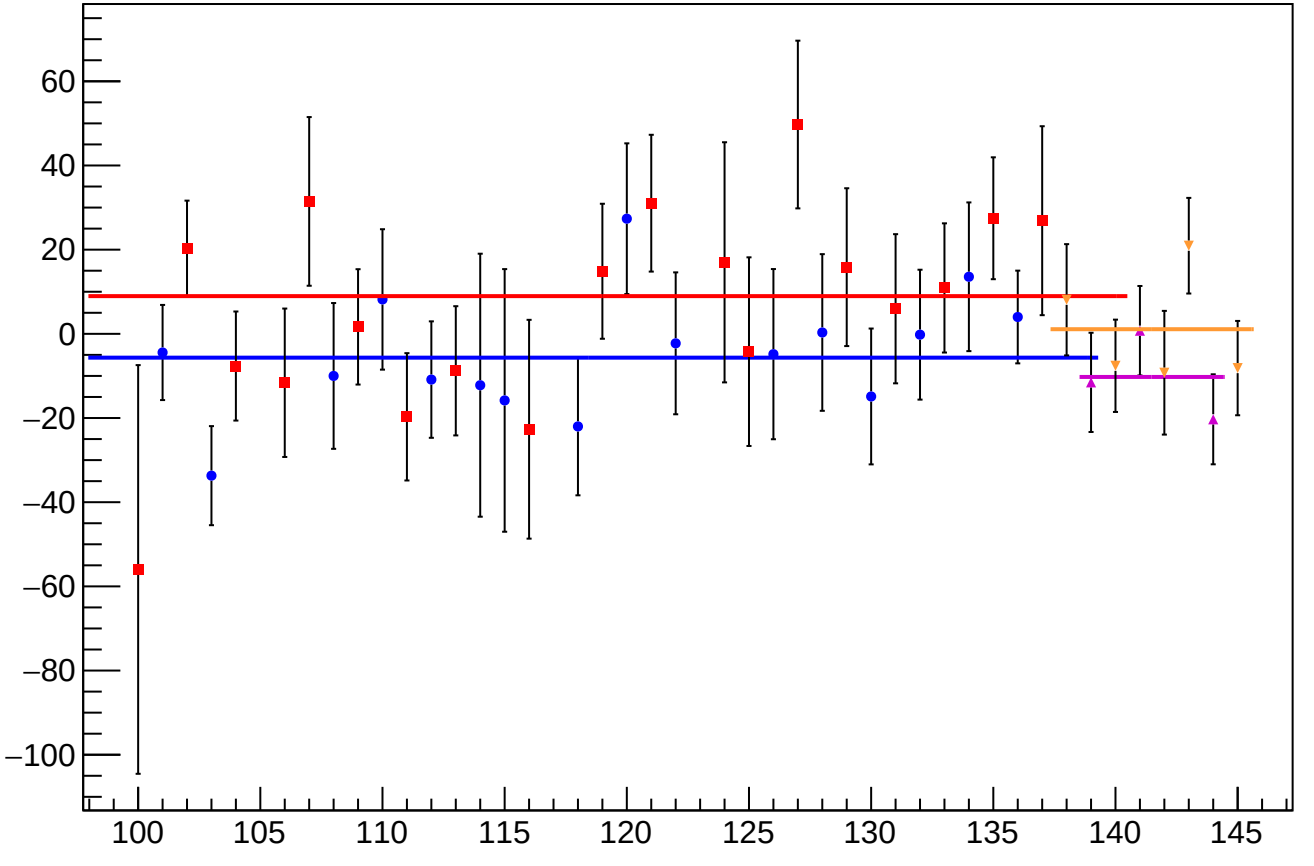
Right: 181.907+/-0.036 $\chi^2$/NDF: 2789239.1/34

In: 200.743+/-0.047 $\chi^2$/NDF:1151859.3/18

Out: 186.701+/-0.042 $\chi^2$/NDF:2190622.4/23

All: 192.957+/-0.032 $\chi^2$/NDF: 3391347.5/42

asym_bcm_an_us_an_ds3_dd_mean vs Slug, Sign Corrected




Right In: -5.657+/-3.939 $\chi^2$/NDF: 13.7/15

Left Out: 1.101+/-5.393 $\chi^2$/NDF:5.1/4

Right Out: 8.960+/-3.901 $\chi^2$/NDF: 22.8/18

Left In: -10.242+/-6.350 $\chi^2$/NDF:2.0/2

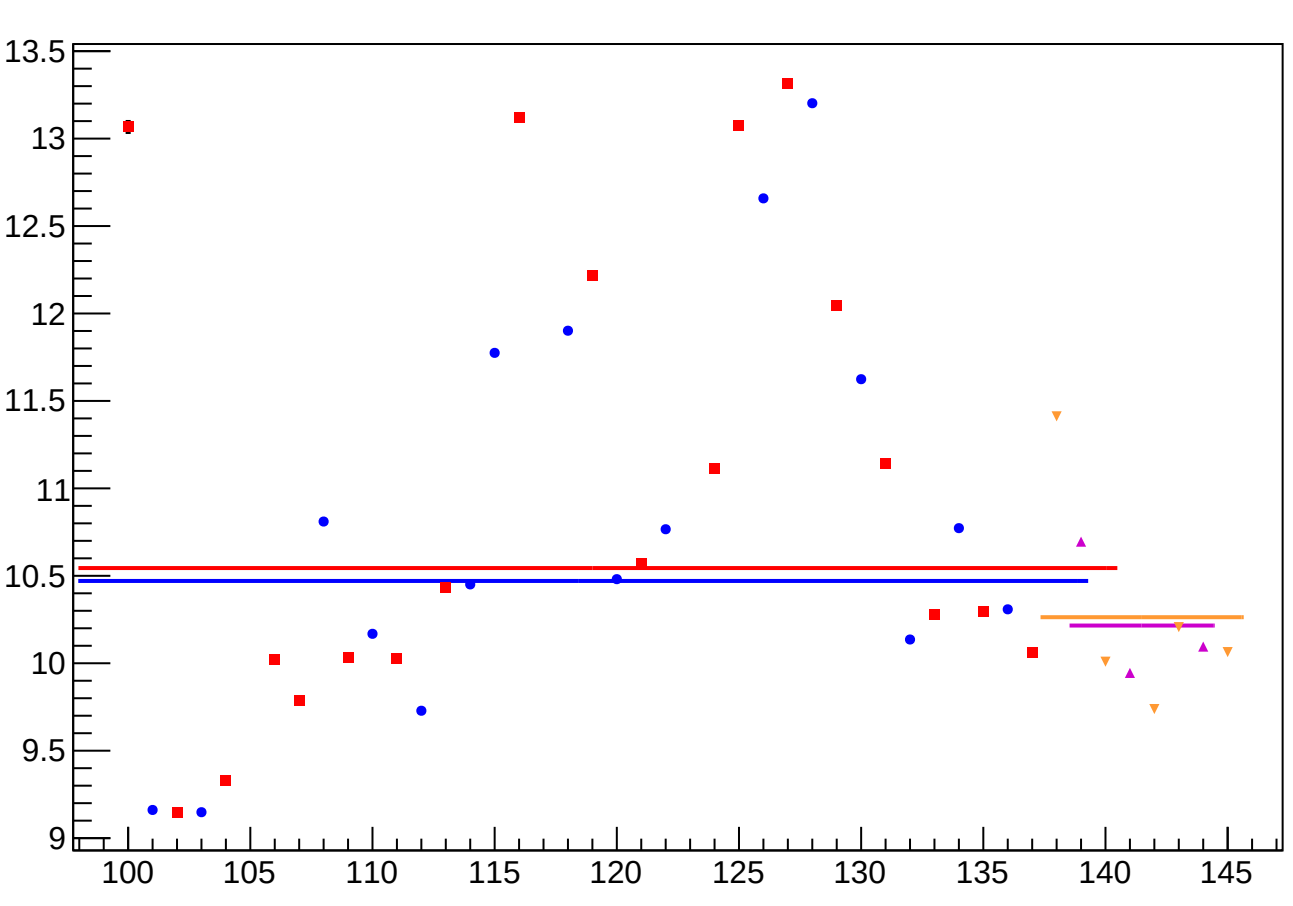
Left: -3.653+/-4.111 $\chi^2$/NDF: 9.0/7

Right: 1.723+/-2.772 $\chi^2$/NDF: 43.4/34

In: -6.931+/-3.347 $\chi^2$/NDF:16.0/18

Out: 6.261+/-3.161 $\chi^2$/NDF:29.3/23

All: 0.043+/-2.298 $\chi^2$/NDF: 53.6/42




Right In: 10.471+/-0.003 $\chi^2$/NDF: 157365.8/15

Left Out: 10.263+/-0.004 $\chi^2$/NDF:19419.0/4

Right Out: 10.544+/-0.003 $\chi^2$/NDF: 186780.3/18

Left In: 10.216+/-0.004 $\chi^2$/NDF:4865.1/2

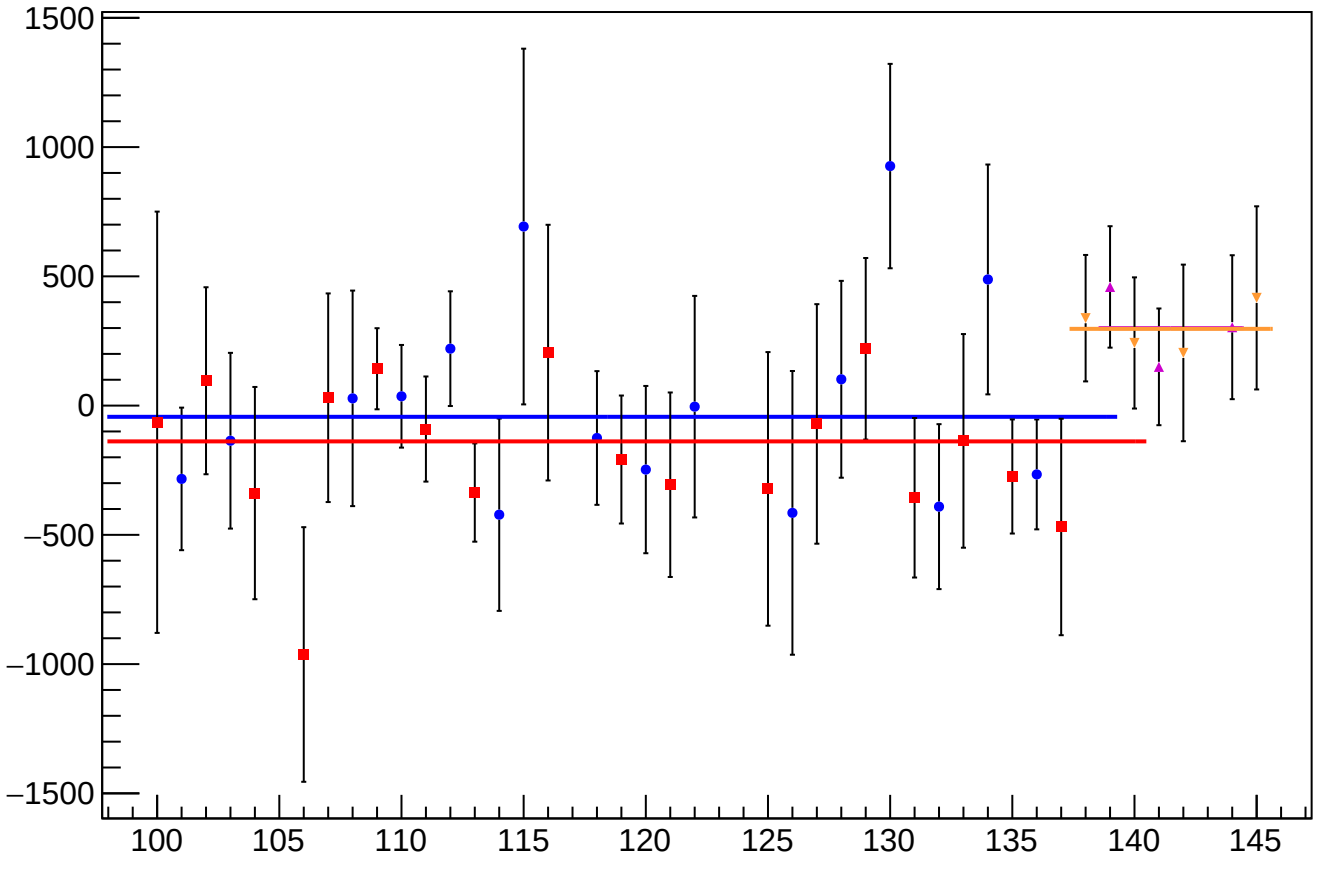
Left: 10.243+/-0.003 $\chi^2$/NDF: 24349.7/7

Right: 10.508+/-0.002 $\chi^2$/NDF: 344500.1/34

In: 10.400+/-0.002 $\chi^2$/NDF:164559.4/18

Out: 10.448+/-0.002 $\chi^2$/NDF:209764.6/23

All: 10.425+/-0.002 $\chi^2$/NDF: 374542.3/42




Right In: -43.384+/-77.584 $\chi^2$/NDF: 15.5/15

Left Out: 296.888+/-143.166 $\chi^2$/NDF:0.3/3

Right Out: -138.455+/-69.833 $\chi^2$/NDF: 11.5/17

Left In: 299.605+/-140.507 $\chi^2$/NDF:0.9/2

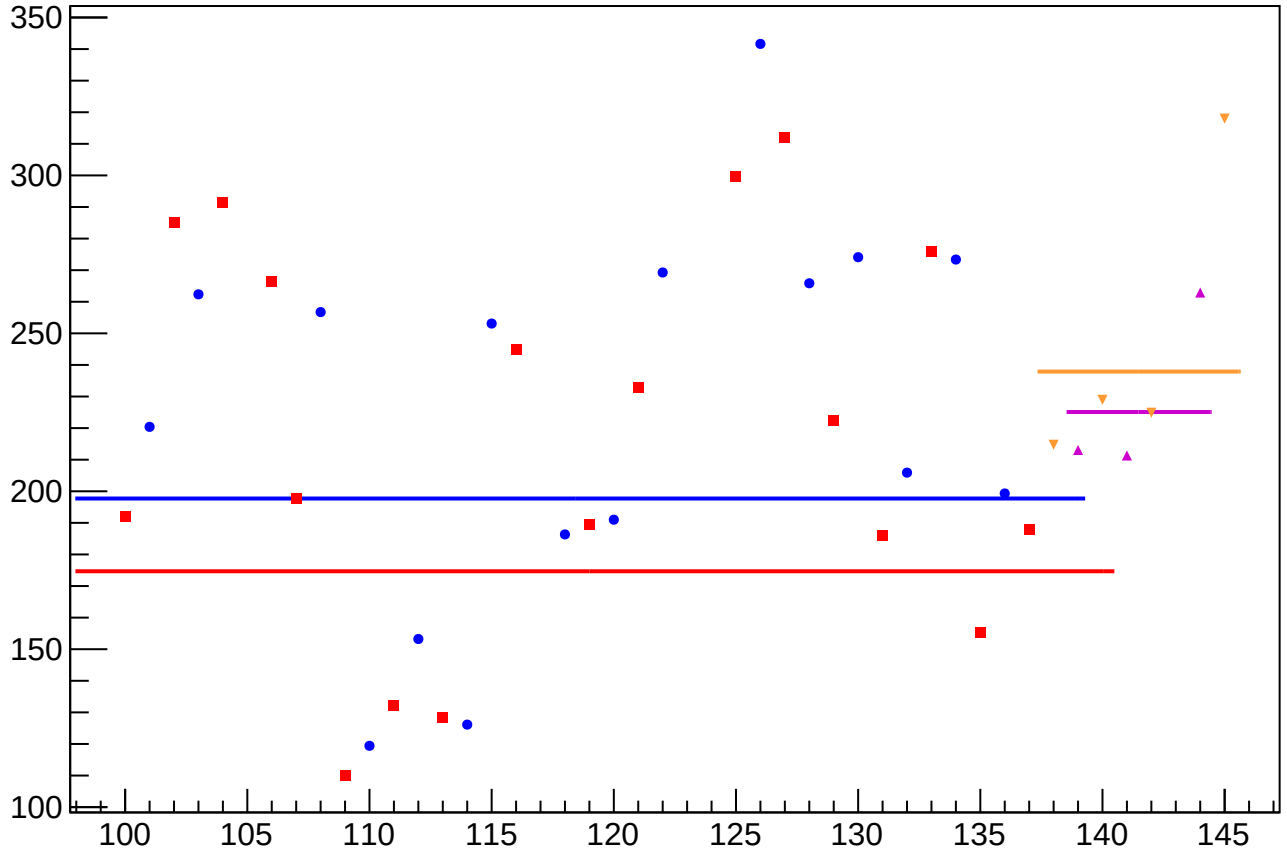
Left: 298.272+/-100.280 $\chi^2$/NDF: 1.2/6

Right: -95.904+/-51.904 $\chi^2$/NDF: 27.7/33

In: 36.757+/-67.918 $\chi^2$/NDF:20.9/18

Out: -54.783+/-62.764 $\chi^2$/NDF:19.2/21

All: -12.617+/-46.095 $\chi^2$/NDF: 41.1/40




Right In: 197.707+/-0.055 $\chi^2$/NDF: 1000324.6/15

Left Out: 237.900+/-0.101 $\chi^2$/NDF:125566.3/3

Right Out: 174.679+/-0.049 $\chi^2$/NDF: 1534751.1/17

Left In: 225.096+/-0.099 $\chi^2$/NDF:49597.9/2

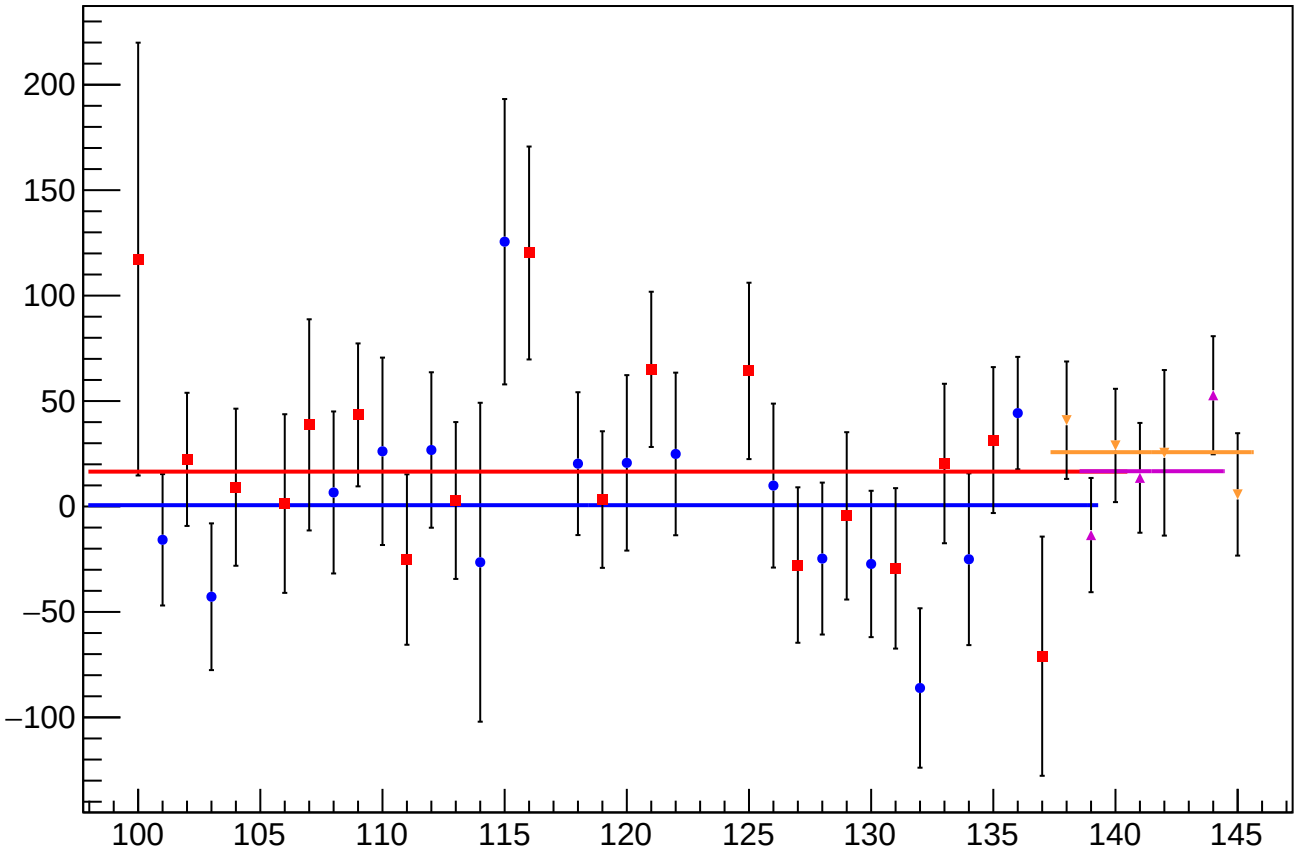
Left: 231.378+/-0.071 $\chi^2$/NDF: 183312.9/6

Right: 184.986+/-0.037 $\chi^2$/NDF: 2632415.9/33

In: 204.107+/-0.048 $\chi^2$/NDF:1108158.1/18

Out: 186.830+/-0.044 $\chi^2$/NDF:1975365.2/21

All: 194.788+/-0.033 $\chi^2$/NDF: 3153327.0/40




Right In: 0.619+/-9.421 $\chi^2$/NDF: 16.7/15

Left Out: 25.759+/-14.888 $\chi^2$/NDF:0.8/3

Right Out: 16.534+/-9.307 $\chi^2$/NDF: 16.4/17

Left In: 16.733+/-15.592 $\chi^2$/NDF:2.9/2

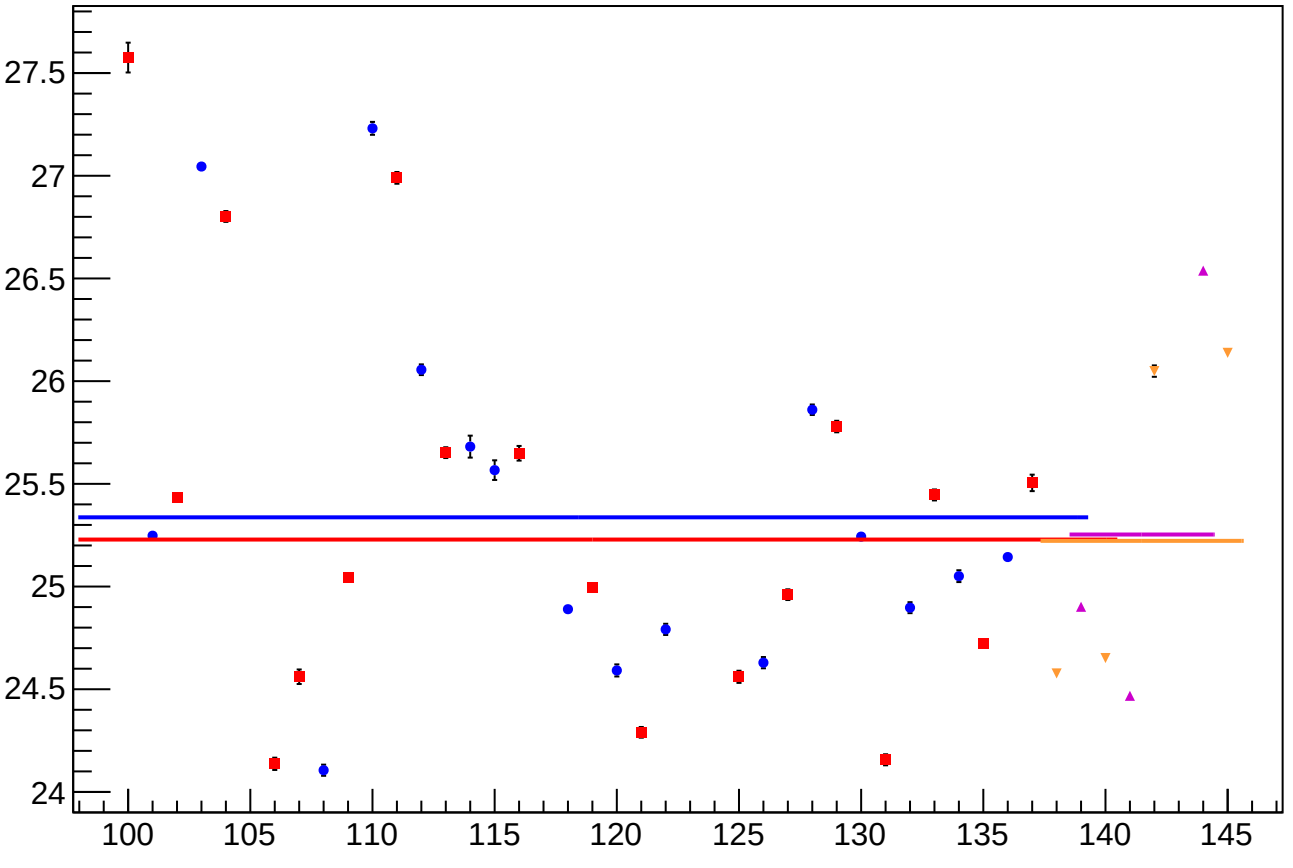
Left: 21.454+/-10.768 $\chi^2$/NDF: 3.9/6

Right: 8.674+/-6.621 $\chi^2$/NDF: 34.6/33

In: 4.929+/-8.064 $\chi^2$/NDF:20.4/18

Out: 19.126+/-7.892 $\chi^2$/NDF:17.4/21

All: 12.180+/-5.640 $\chi^2$/NDF: 39.5/40




Right In: 25.337+/-0.007 $\chi^2$/NDF: 14315.0/15

Left Out: 25.222+/-0.011 $\chi^2$/NDF:4853.2/3

Right Out: 25.229+/-0.007 $\chi^2$/NDF: 15176.1/17

Left In: 25.253+/-0.011 $\chi^2$/NDF:6364.7/2

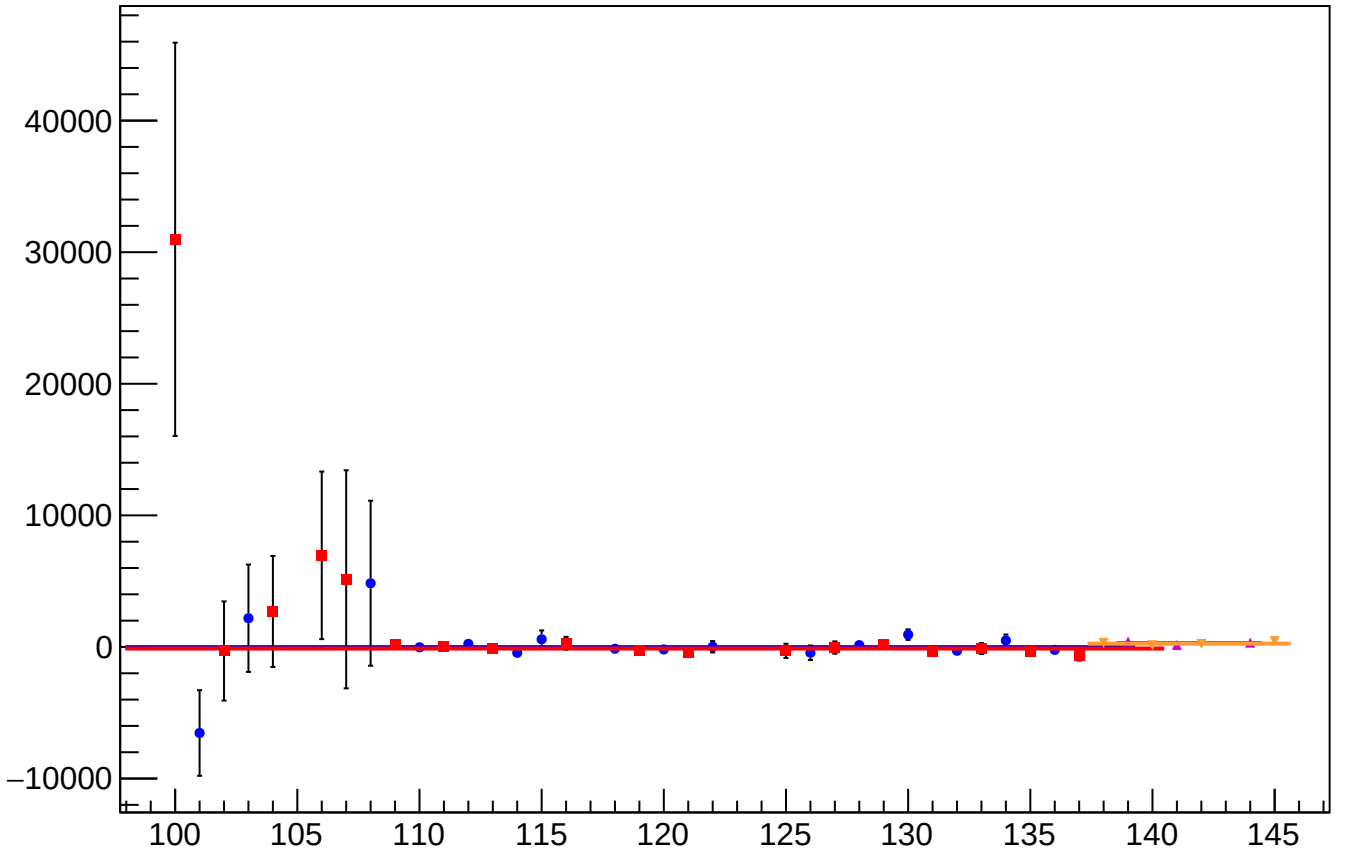
Left: 25.237+/-0.008 $\chi^2$/NDF: 11221.9/6

Right: 25.282+/-0.005 $\chi^2$/NDF: 29624.6/33

In: 25.315+/-0.006 $\chi^2$/NDF:20721.9/18

Out: 25.227+/-0.006 $\chi^2$/NDF:20029.5/21

All: 25.270+/-0.004 $\chi^2$/NDF: 40872.0/40




Right In: -13.160+/-84.454 $\chi^2$/NDF: 18.3/15

Left Out: 253.417+/-142.033 $\chi^2$/NDF:0.6/3

Right Out: -119.984+/-78.247 $\chi^2$/NDF: 14.4/17

Left In: 293.379+/-139.432 $\chi^2$/NDF:0.7/2

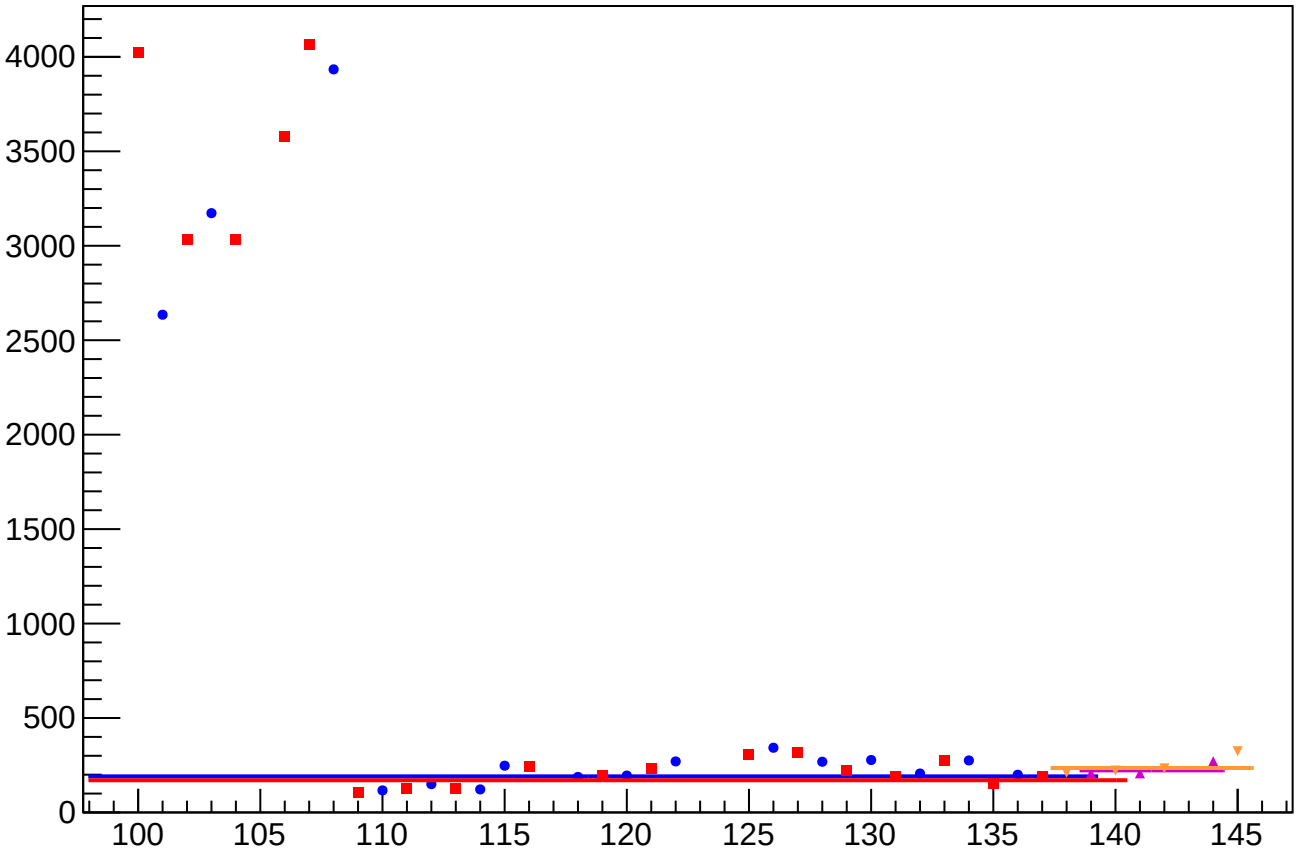
Left: 273.767+/-99.500 $\chi^2$/NDF: 1.3/6

Right: -70.641+/-57.398 $\chi^2$/NDF: 33.6/33

In: 69.116+/-72.237 $\chi^2$/NDF:22.5/18

Out: -33.043+/-68.535 $\chi^2$/NDF:20.3/21

All: 15.352+/-49.719 $\chi^2$/NDF: 43.8/40




Right In: 191.070+/-0.060 $\chi^2$/NDF: 3833952.4/15

Left Out: 235.464+/-0.100 $\chi^2$/NDF:148843.9/3

Right Out: 170.494+/-0.055 $\chi^2$/NDF: 4254820.8/17

Left In: 222.688+/-0.099 $\chi^2$/NDF:73878.8/2

Left: 228.958+/-0.070 $\chi^2$/NDF: 230963.8/6

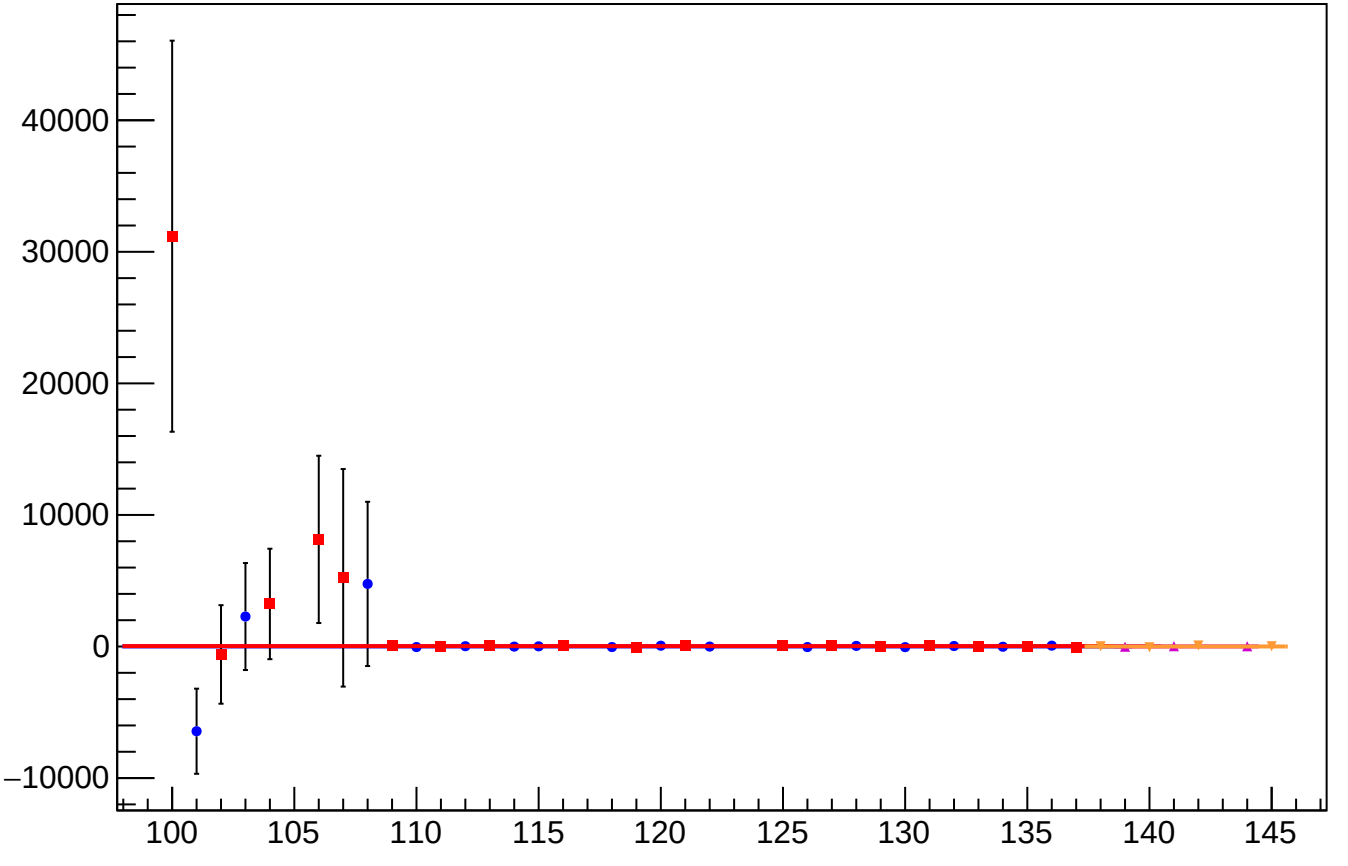
Right: 179.998+/-0.041 $\chi^2$/NDF: 8152654.9/33

In: 199.556+/-0.051 $\chi^2$/NDF:3983070.6/18

Out: 185.621+/-0.048 $\chi^2$/NDF:4724714.1/21

All: 192.222+/-0.035 $\chi^2$/NDF: 8746954.8/40

asym_bcm_cav4cQ_an_ds_dd_mean vs Slug, Sign Corrected




Right In: 6.490+/-11.764 $\chi^2$/NDF: 18.3/15

Left Out: 3.168+/-17.210 $\chi^2$/NDF:7.3/3

Right Out: 30.740+/-12.084 $\chi^2$/NDF: 19.9/17

Left In: 8.790+/-17.772 $\chi^2$/NDF:1.0/2

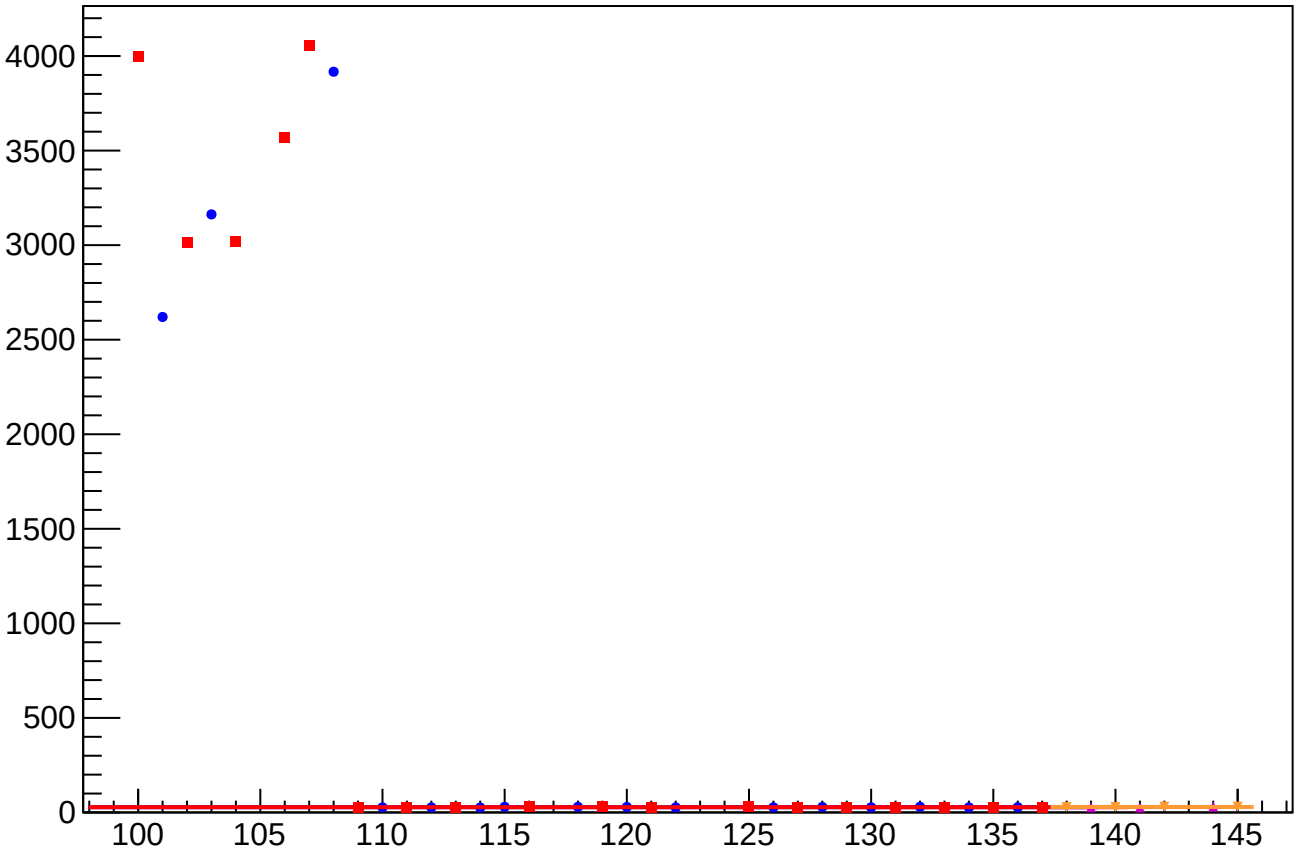
Left: 5.888+/-12.363 $\chi^2$/NDF: 8.3/6

Right: 18.290+/-8.429 $\chi^2$/NDF: 40.2/33

In: 7.191+/-9.810 $\chi^2$/NDF:19.3/18

Out: 21.635+/-9.890 $\chi^2$/NDF:28.8/21

All: 14.354+/-6.965 $\chi^2$/NDF: 49.2/40




Right In: 27.825+/-0.008 $\chi^2$/NDF: 3265895.3/15

Left Out: 29.055+/-0.012 $\chi^2$/NDF:6862.8/3

Right Out: 27.778+/-0.009 $\chi^2$/NDF: 3558398.6/17

Left In: 28.713+/-0.013 $\chi^2$/NDF:18121.8/2

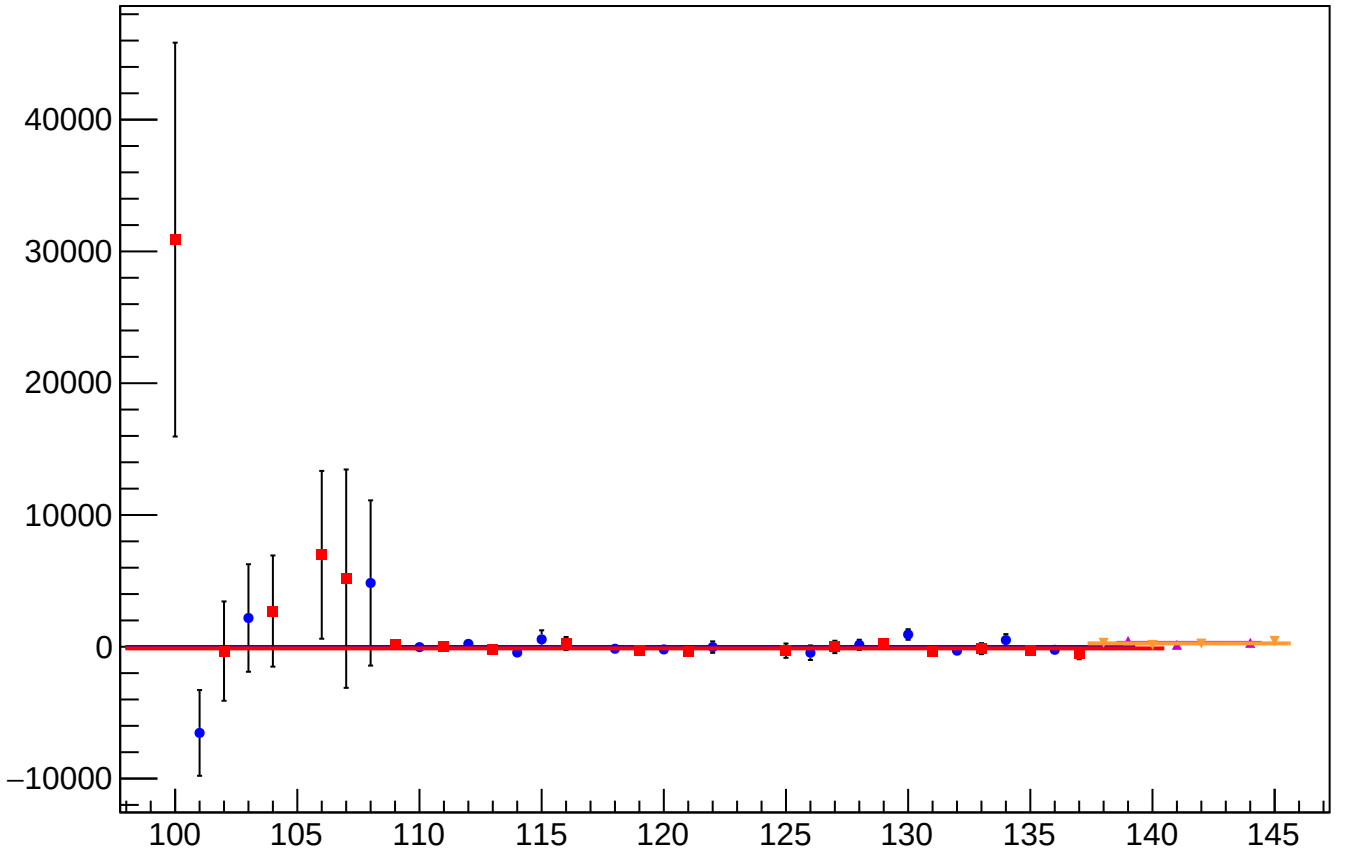
Left: 28.889+/-0.009 $\chi^2$/NDF: 25365.4/6

Right: 27.802+/-0.006 $\chi^2$/NDF: 6824309.2/33

In: 28.096+/-0.007 $\chi^2$/NDF:3287492.1/18

Out: 28.200+/-0.007 $\chi^2$/NDF:3572629.7/21

All: 28.147+/-0.005 $\chi^2$/NDF: 6860233.7/40




Right In: -19.522+/-85.063 $\chi^2$/NDF: 18.2/15

Left Out: 257.208+/-142.748 $\chi^2$/NDF:0.5/3

Right Out: -121.544+/-78.844 $\chi^2$/NDF: 13.2/17

Left In: 295.512+/-140.214 $\chi^2$/NDF:0.9/2

Left: 276.703+/-100.030 $\chi^2$/NDF: 1.4/6

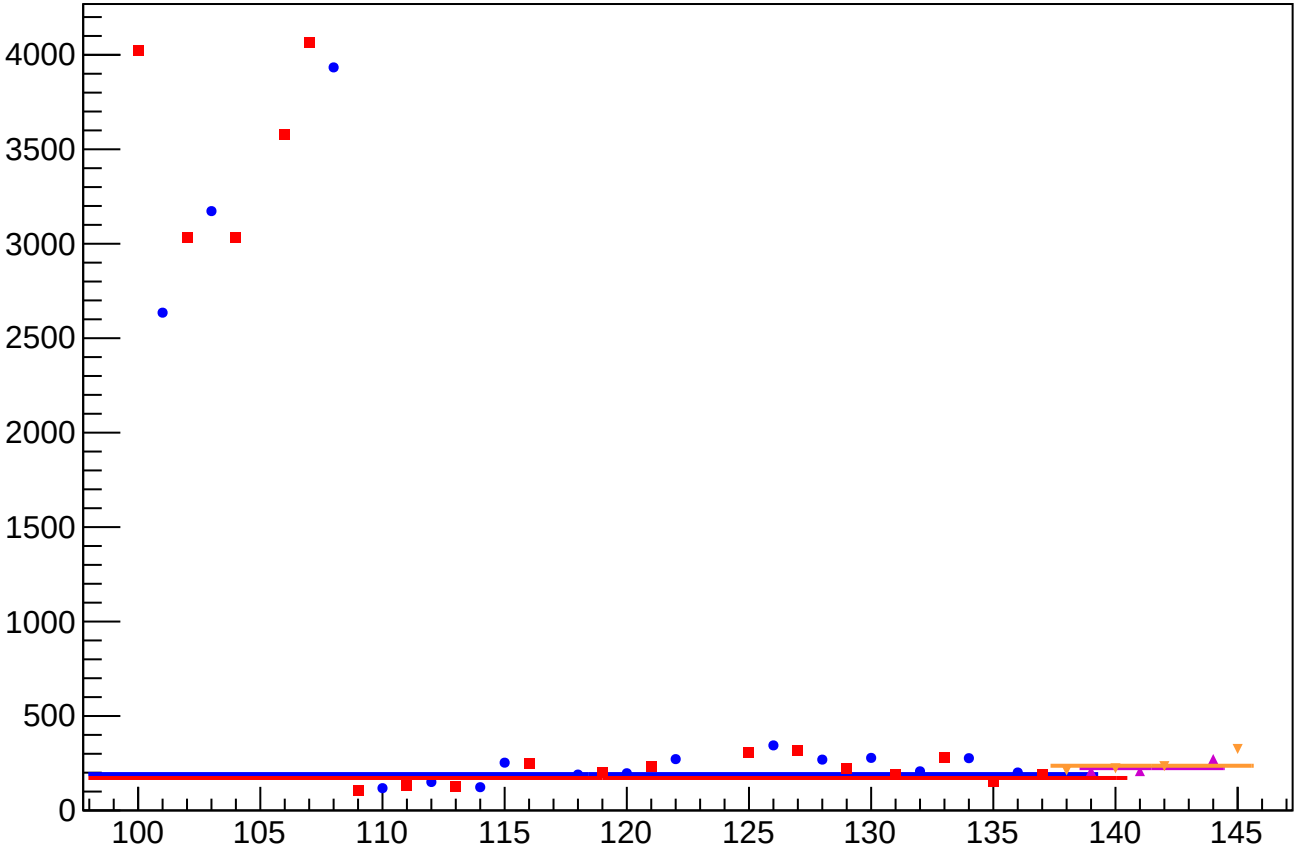
Right: -74.398+/-57.825 $\chi^2$/NDF: 32.2/33

In: 65.231+/-72.726 $\chi^2$/NDF:22.7/18

Out: -33.008+/-69.016 $\chi^2$/NDF:19.2/21

All: 13.542+/-50.062 $\chi^2$/NDF: 42.8/40

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: 236.666+/-0.101 $\chi^2$/NDF:148314.0/3

Right Out: 171.899+/-0.056 $\chi^2$/NDF: 4247800.5/17

Left In: 223.955+/-0.099 $\chi^2$/NDF:73418.4/2

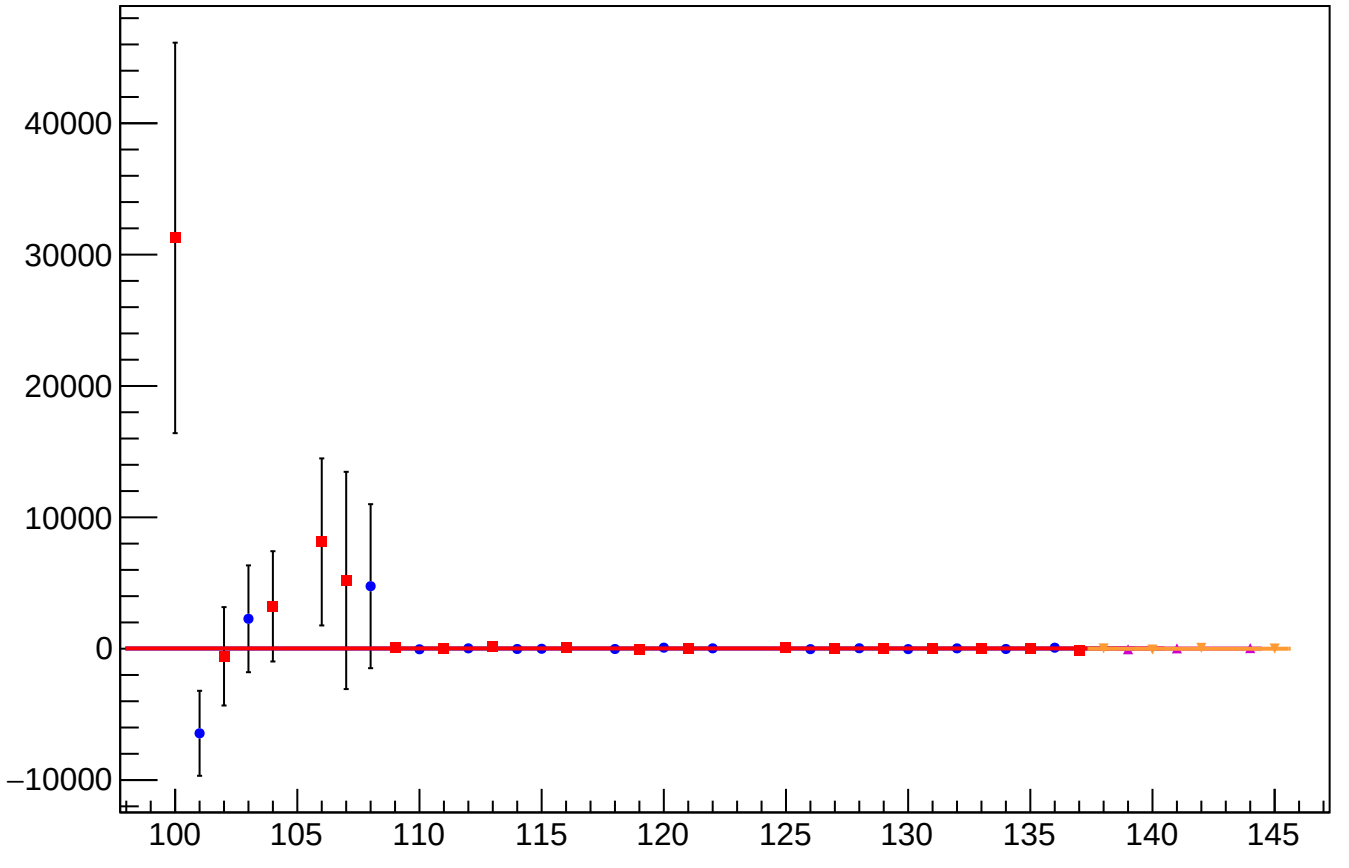
Left: 230.197+/-0.071 $\chi^2$/NDF: 229802.9/6

Right: 181.447+/-0.041 $\chi^2$/NDF: 8134058.4/33

In: 201.006+/-0.051 $\chi^2$/NDF:3969502.6/18

Out: 187.038+/-0.049 $\chi^2$/NDF:4711591.6/21

All: 193.657+/-0.035 $\chi^2$/NDF: 8719911.2/40




Right In: 13.713+/-13.062 $\chi^2$/NDF: 15.5/15

Left Out: -1.486+/-18.855 $\chi^2$/NDF:6.1/3

Right Out: 21.906+/-13.382 $\chi^2$/NDF: 28.4/17

Left In: 10.439+/-19.441 $\chi^2$/NDF:3.6/2

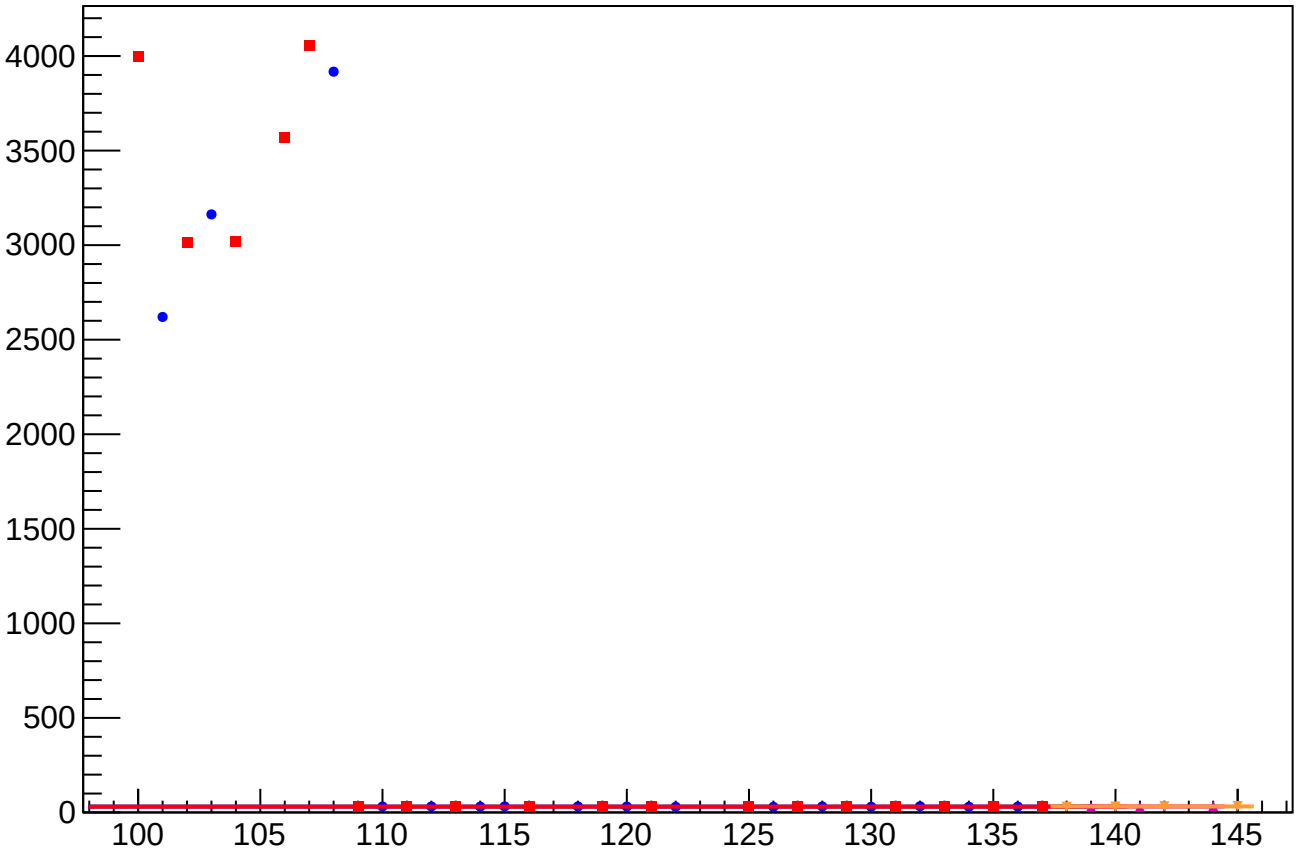
Left: 4.294+/-13.535 $\chi^2$/NDF: 9.9/6

Right: 17.710+/-9.347 $\chi^2$/NDF: 44.0/33

In: 12.695+/-10.842 $\chi^2$/NDF:19.1/18

Out: 14.070+/-10.913 $\chi^2$/NDF:35.5/21

All: 13.378+/-7.691 $\chi^2$/NDF: 54.6/40




Right In: 30.928+/-0.009 $\chi^2$/NDF: 3252607.8/15

Left Out: 31.855+/-0.013 $\chi^2$/NDF:8941.6/3

Right Out: 30.804+/-0.009 $\chi^2$/NDF: 3535959.8/17

Left In: 31.442+/-0.014 $\chi^2$/NDF:14658.5/2

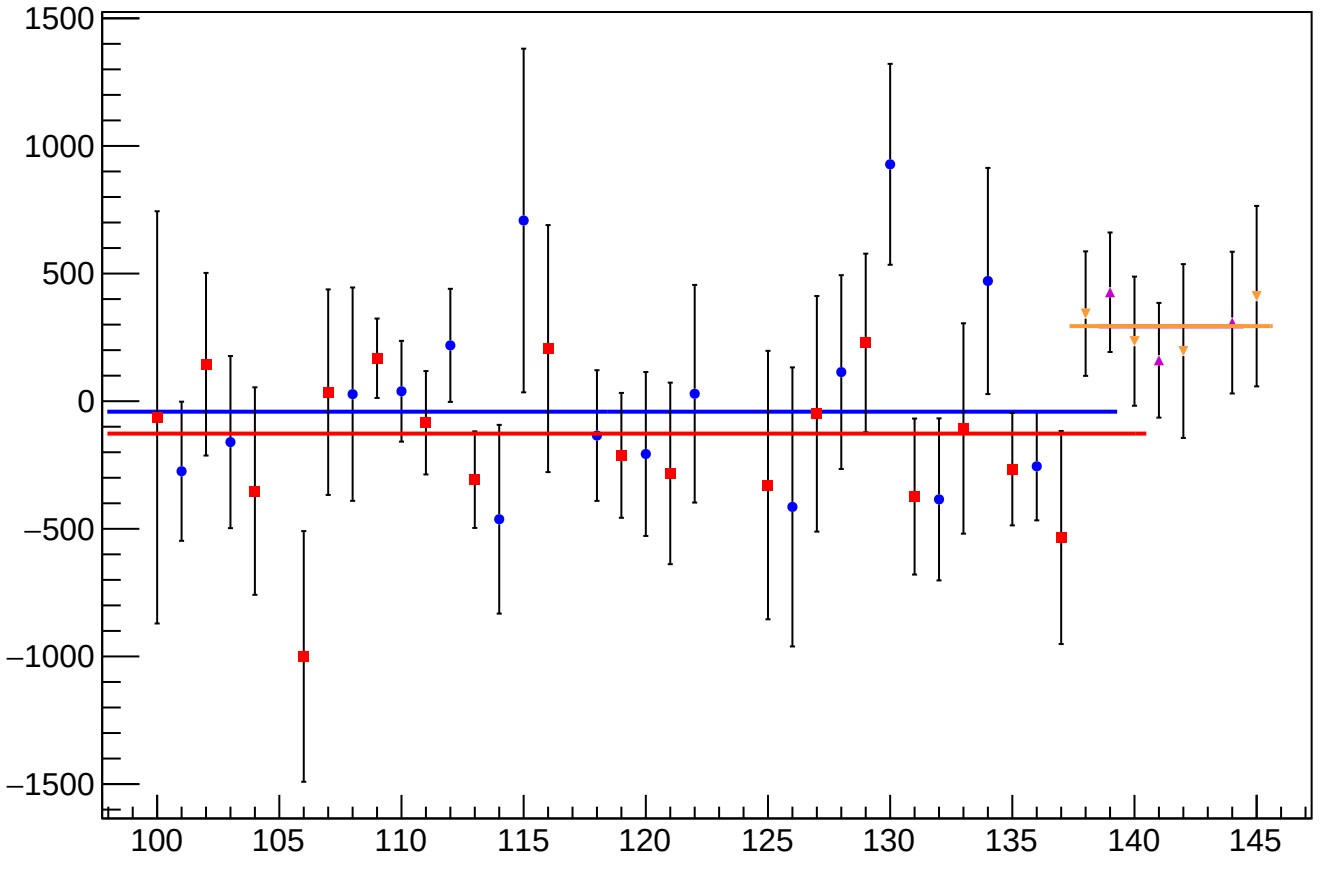
Left: 31.655+/-0.010 $\chi^2$/NDF: 24064.1/6

Right: 30.868+/-0.007 $\chi^2$/NDF: 6788655.9/33

In: 31.088+/-0.008 $\chi^2$/NDF:3268229.4/18

Out: 31.156+/-0.008 $\chi^2$/NDF:3549032.1/21

All: 31.122+/-0.005 $\chi^2$/NDF: 6817300.4/40




Right In: -41.114+/-77.139 $\chi^2$/NDF: 15.6/15

Left Out: 294.128+/-142.755 $\chi^2$/NDF:0.3/3

Right Out: -126.896+/-69.382 $\chi^2$/NDF: 12.8/17

Left In: 293.159+/-140.000 $\chi^2$/NDF:0.7/2

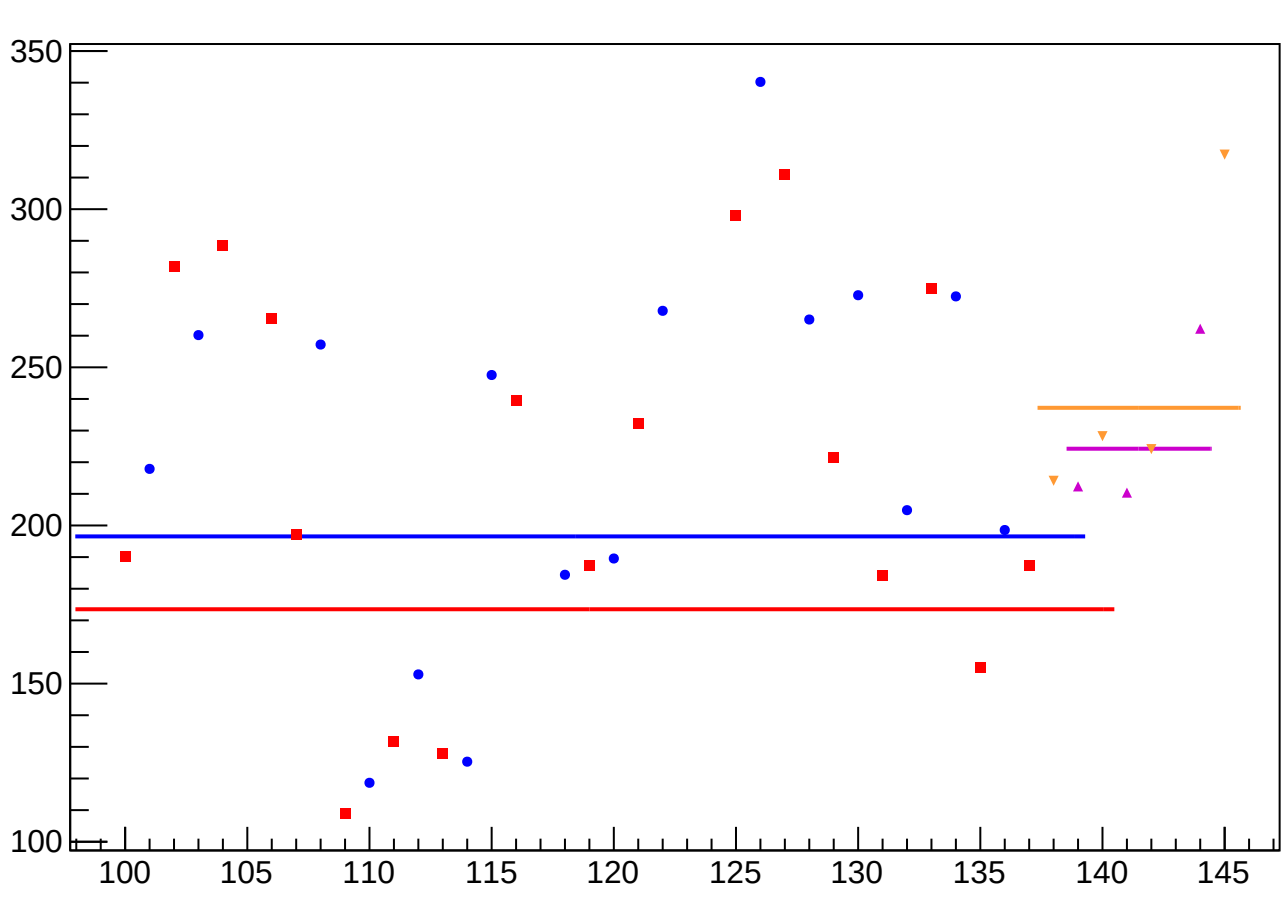
Left: 293.634+/-99.955 $\chi^2$/NDF: 1.0/6

Right: -88.533+/-51.586 $\chi^2$/NDF: 29.1/33

In: 36.734+/-67.562 $\chi^2$/NDF:20.7/18

Out: -46.445+/-62.402 $\chi^2$/NDF:20.1/21

All: -8.153+/-45.841 $\chi^2$/NDF: 41.6/40




Right In: 196.542+/-0.055 $\chi^2$/NDF: 1000770.4/15

Left Out: 237.202+/-0.101 $\chi^2$/NDF:125947.8/3

Right Out: 173.509+/-0.049 $\chi^2$/NDF: 1532720.5/17

Left In: 224.265+/-0.099 $\chi^2$/NDF:50157.8/2

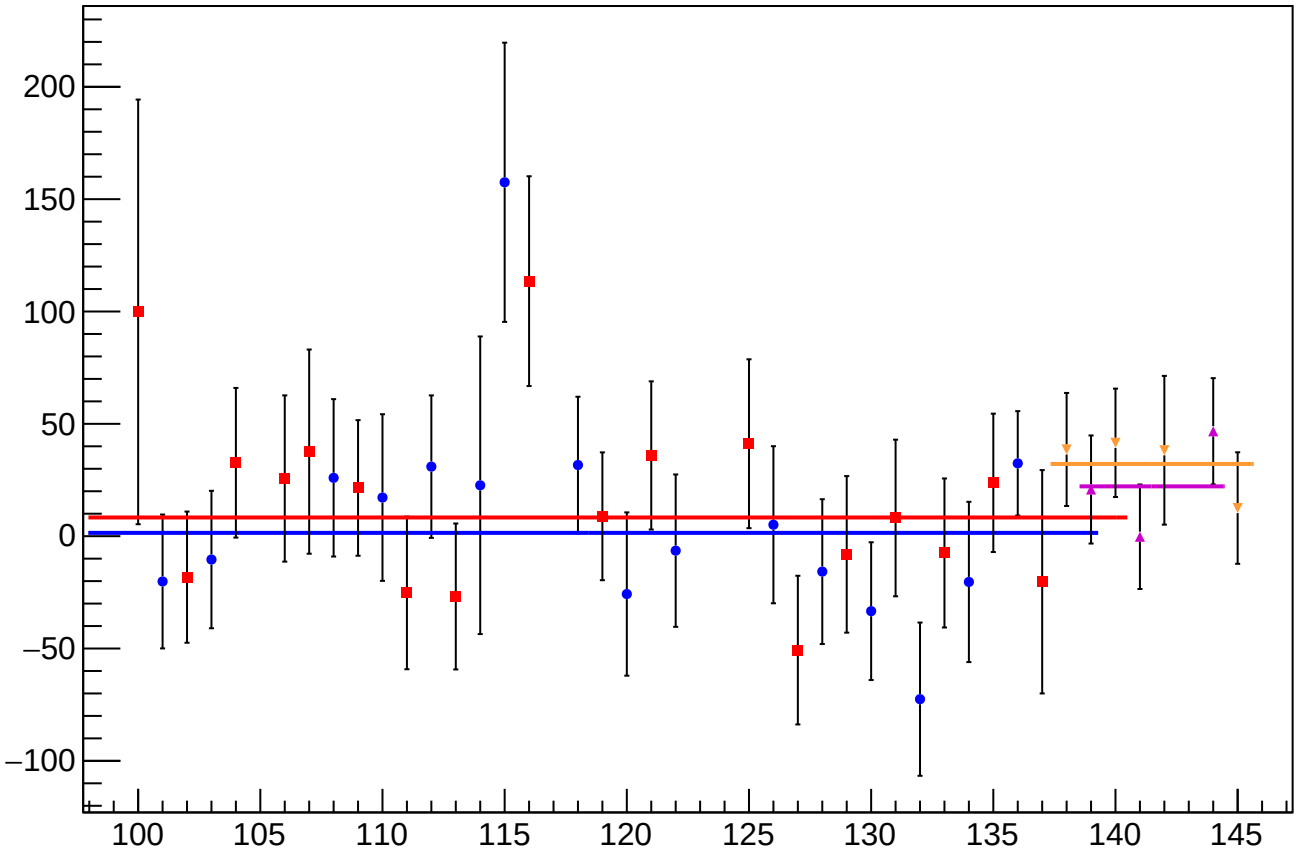
Left: 230.607+/-0.071 $\chi^2$/NDF: 184478.3/6

Right: 183.810+/-0.036 $\chi^2$/NDF: 2632060.1/33

In: 202.998+/-0.048 $\chi^2$/NDF:1111086.9/18

Out: 185.680+/-0.044 $\chi^2$/NDF:1980723.3/21

All: 193.653+/-0.032 $\chi^2$/NDF: 3162727.8/40




Right In: 1.475+/-8.370 $\chi^2$/NDF: 18.7/15

Left Out: 32.154+/-13.092 $\chi^2$/NDF:0.9/3

Right Out: 8.329+/-8.286 $\chi^2$/NDF: 16.0/17

Left In: 22.169+/-13.653 $\chi^2$/NDF:2.0/2

Left: 27.371+/-9.449 $\chi^2$/NDF: 3.2/6

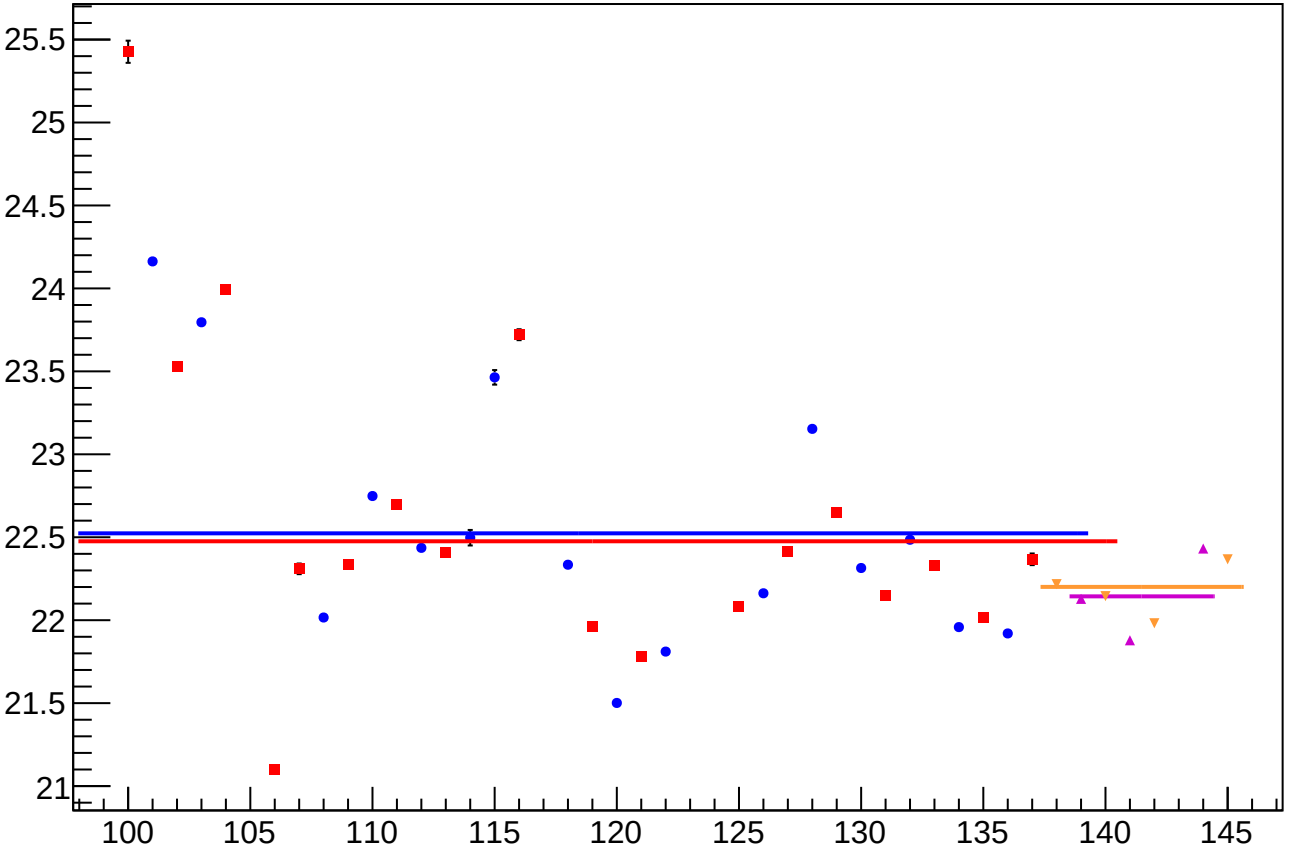
Right: 4.937+/-5.889 $\chi^2$/NDF: 35.0/33

In: 7.128+/-7.136 $\chi^2$/NDF:22.3/18

Out: 15.143+/-7.001 $\chi^2$/NDF:19.3/21

All: 11.212+/-4.998 $\chi^2$/NDF: 42.3/40

# 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: 22.201+/-0.009 $\chi^2$/NDF:189.1/3

Right Out: 22.476+/-0.006 $\chi^2$/NDF: 15536.6/17

Left In: 22.144+/-0.010 $\chi^2$/NDF:557.0/2

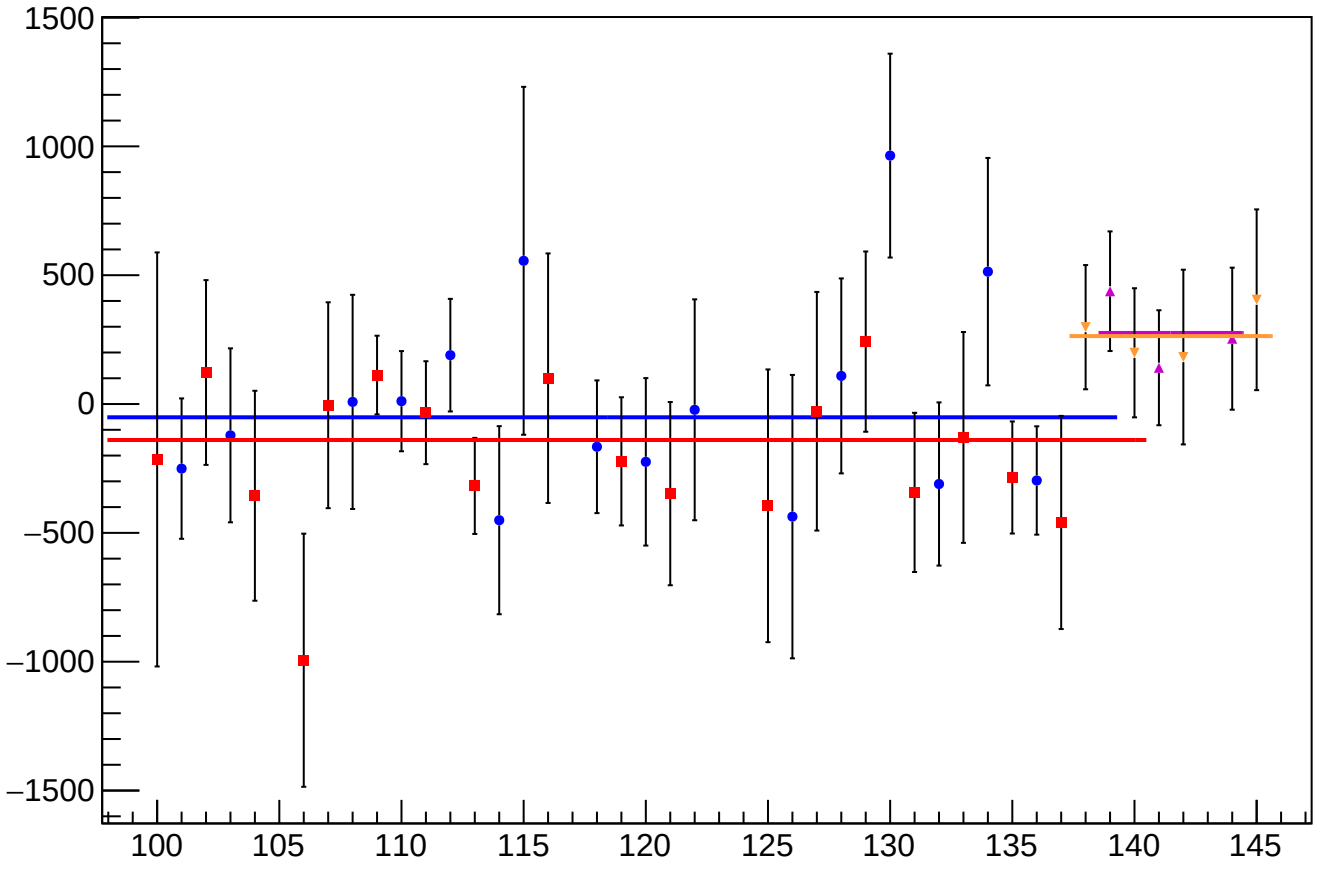
Left: 22.173+/-0.007 $\chi^2$/NDF: 764.3/6

Right: 22.499+/-0.004 $\chi^2$/NDF: 31517.5/33

In: 22.420+/-0.005 $\chi^2$/NDF:17630.1/18

Out: 22.397+/-0.005 $\chi^2$/NDF:16355.5/21

All: 22.408+/-0.004 $\chi^2$/NDF: 33995.9/40




Right In: -51.492+/-76.798 $\chi^2$/NDF: 15.3/15

Left Out: 263.675+/-141.466 $\chi^2$/NDF:0.3/3

Right Out: -139.546+/-68.888 $\chi^2$/NDF: 11.6/17

Left In: 275.836+/-138.926 $\chi^2$/NDF:0.9/2

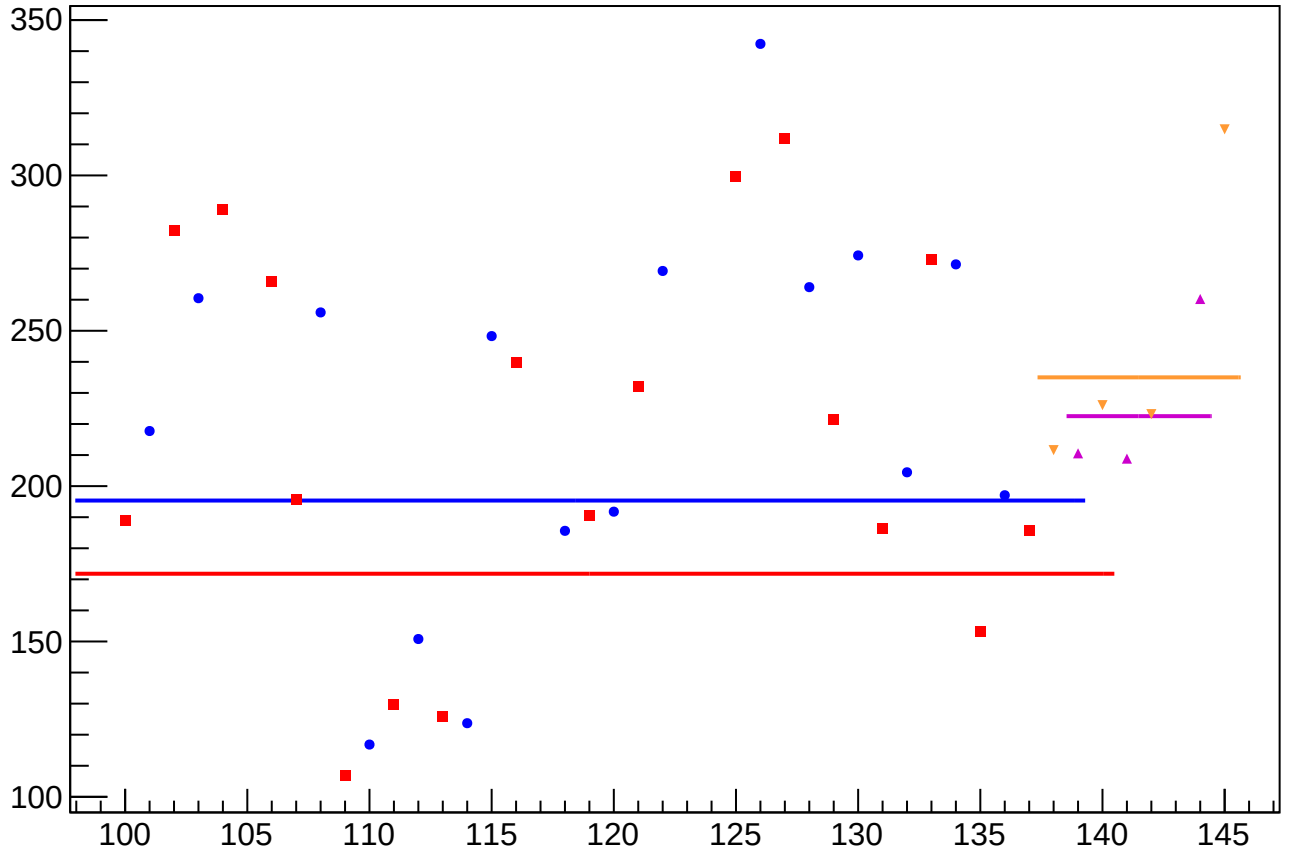
Left: 269.865+/-99.121 $\chi^2$/NDF: 1.2/6

Right: -100.285+/-51.280 $\chi^2$/NDF: 27.6/33

In: 25.122+/-67.212 $\chi^2$/NDF:20.5/18

Out: -62.257+/-61.935 $\chi^2$/NDF:18.4/21

All: -22.132+/-45.546 $\chi^2$/NDF: 39.8/40




Right In: 195.361+/-0.054 $\chi^2$/NDF: 1041432.1/15

Left Out: 235.007+/-0.100 $\chi^2$/NDF:127450.4/3

Right Out: 171.805+/-0.049 $\chi^2$/NDF: 1600663.6/17

Left In: 222.522+/-0.098 $\chi^2$/NDF:50265.8/2

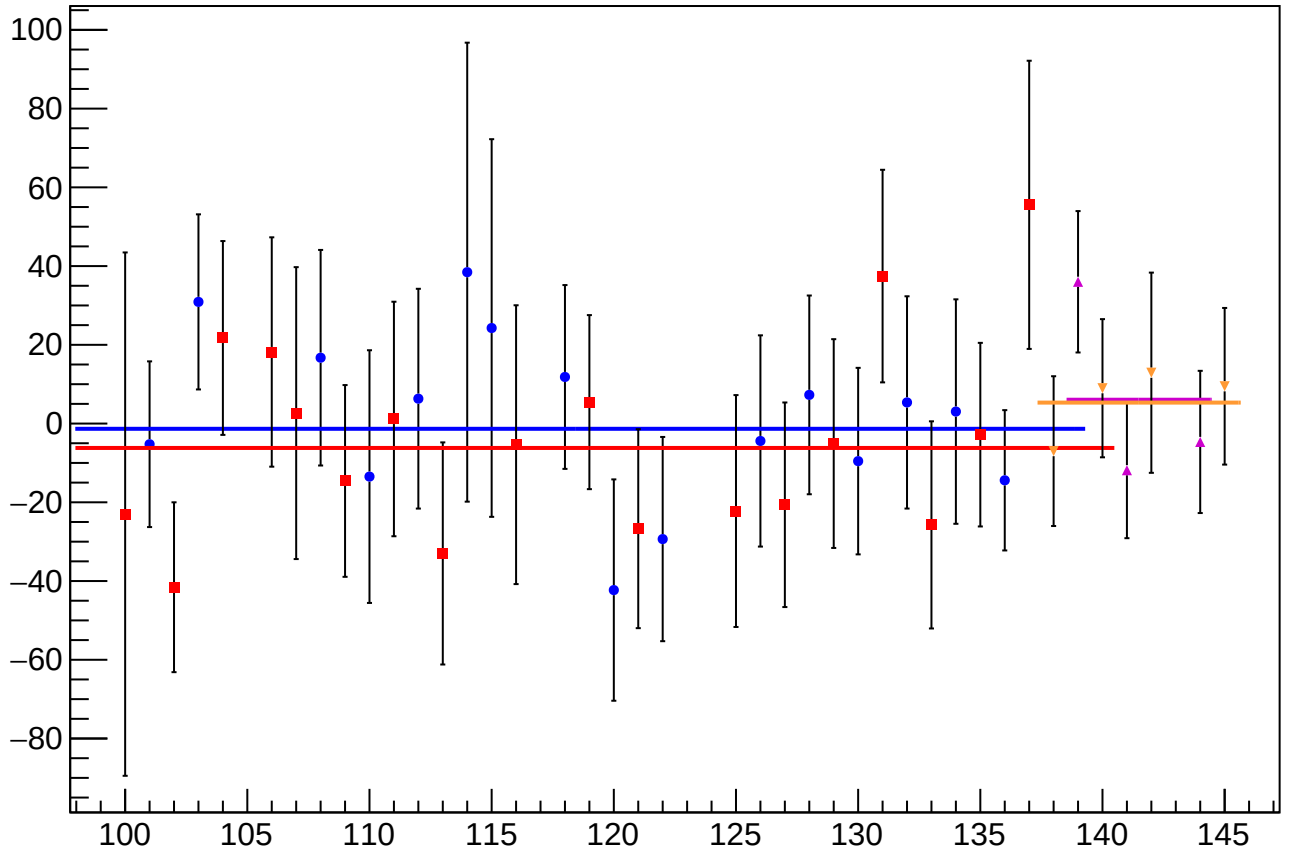
Left: 228.651+/-0.070 $\chi^2$/NDF: 185646.7/6

Right: 182.308+/-0.036 $\chi^2$/NDF: 2746362.8/33

In: 201.718+/-0.048 $\chi^2$/NDF:1150249.9/18

Out: 183.919+/-0.044 $\chi^2$/NDF:2050796.1/21

All: 192.093+/-0.032 $\chi^2$/NDF: 3276894.2/40




Right In: -1.331+/-6.499 $\chi^2$/NDF: 8.0/15

Left Out: 5.325+/-9.959 $\chi^2$/NDF:0.6/3

Right Out: -6.195+/-6.473 $\chi^2$/NDF: 13.5/17

Left In: 6.055+/-10.249 $\chi^2$/NDF:4.2/2

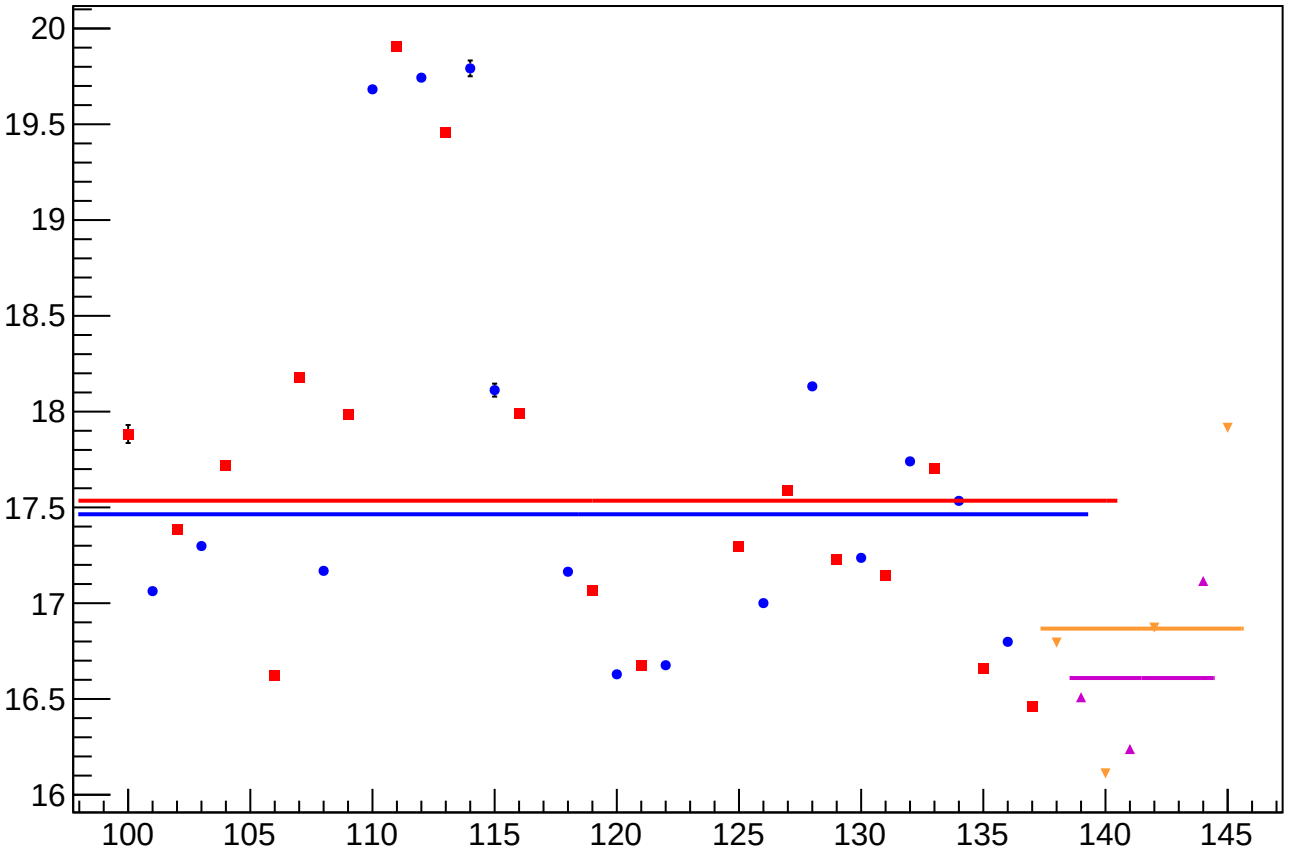
Left: 5.679+/-7.142 $\chi^2$/NDF: 4.8/6

Right: -3.773+/-4.586 $\chi^2$/NDF: 21.8/33

In: 0.787+/-5.488 $\chi^2$/NDF:12.6/18

Out: -2.774+/-5.427 $\chi^2$/NDF:15.0/21

All: -1.013+/-3.859 $\chi^2$/NDF: 27.8/40




Right In: 17.464+/-0.005 $\chi^2$/NDF: 36650.1/15

Left Out: 16.867+/-0.007 $\chi^2$/NDF:9291.6/3

Right Out: 17.535+/-0.005 $\chi^2$/NDF: 34475.1/17

Left In: 16.609+/-0.007 $\chi^2$/NDF:2557.2/2

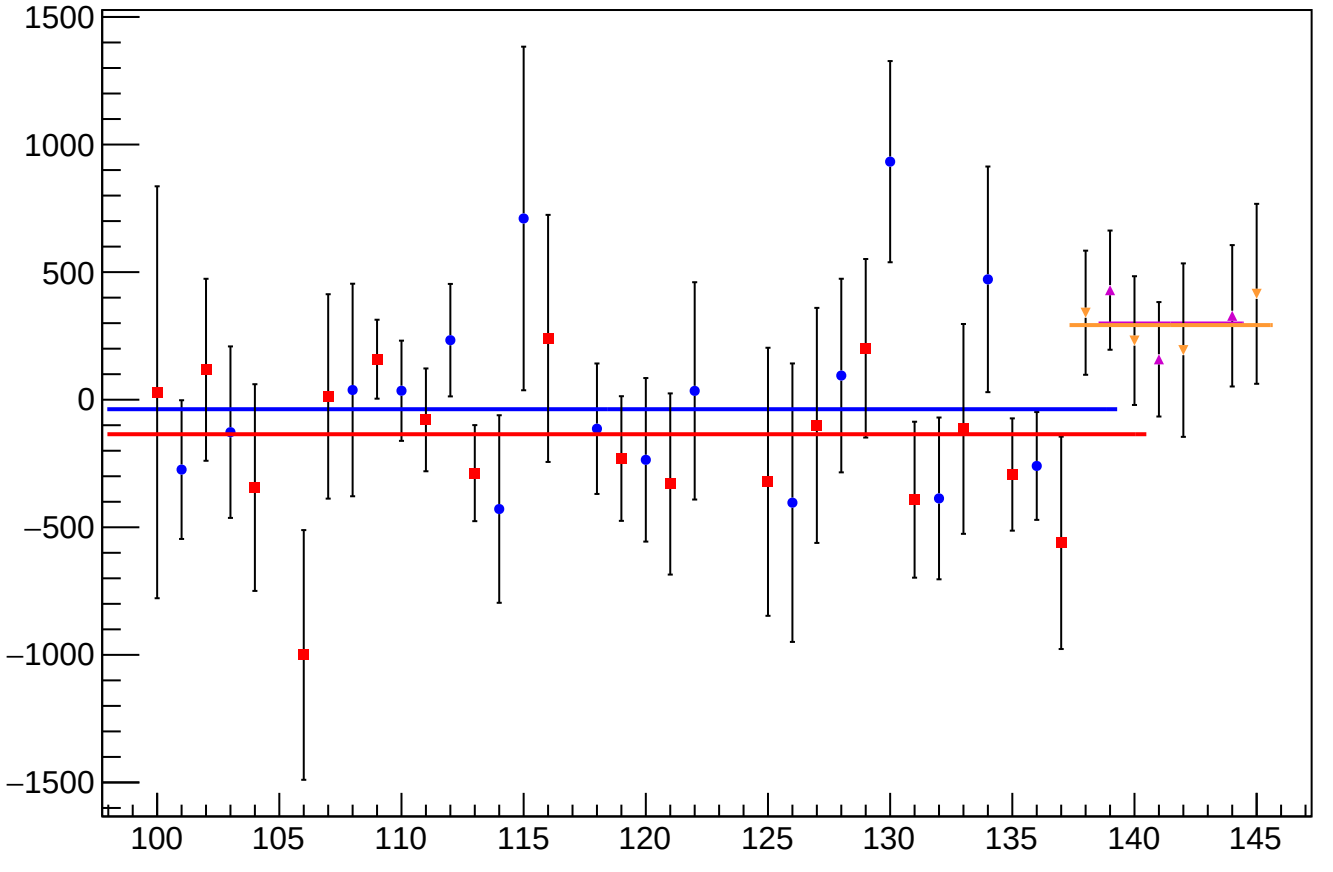
Left: 16.742+/-0.005 $\chi^2$/NDF: 12500.7/6

Right: 17.500+/-0.003 $\chi^2$/NDF: 71244.5/33

In: 17.219+/-0.004 $\chi^2$/NDF:49130.8/18

Out: 17.337+/-0.004 $\chi^2$/NDF:50086.1/21

All: 17.279+/-0.003 $\chi^2$/NDF: 99681.9/40




Right In: -37.241+/-76.915 $\chi^2$/NDF: 15.6/15

Left Out: 292.453+/-142.409 $\chi^2$/NDF:0.3/3

Right Out: -135.279+/-69.157 $\chi^2$/NDF: 12.8/17

Left In: 298.665+/-139.697 $\chi^2$/NDF:0.7/2

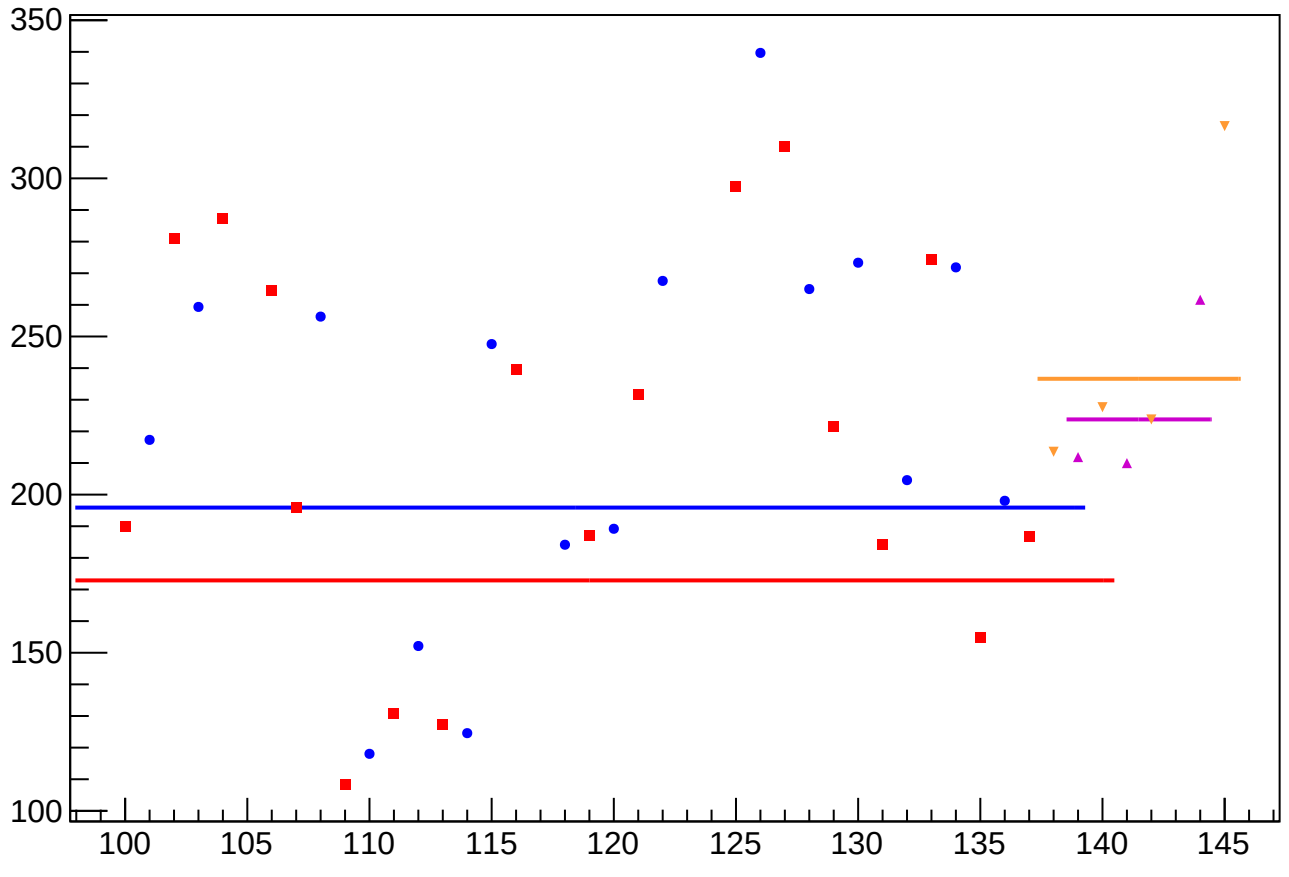
Left: 295.618+/-99.726 $\chi^2$/NDF: 1.0/6

Right: -91.452+/-51.426 $\chi^2$/NDF: 29.3/33

In: 40.899+/-67.378 $\chi^2$/NDF:20.8/18

Out: -53.656+/-62.210 $\chi^2$/NDF:20.4/21

All: -10.143+/-45.707 $\chi^2$/NDF: 42.3/40




Right In: 195.900+/-0.054 $\chi^2$/NDF: 1011012.3/15

Left Out: 236.625+/-0.101 $\chi^2$/NDF:126043.4/3

Right Out: 172.873+/-0.049 $\chi^2$/NDF: 1543258.3/17

Left In: 223.779+/-0.099 $\chi^2$/NDF:50100.8/2

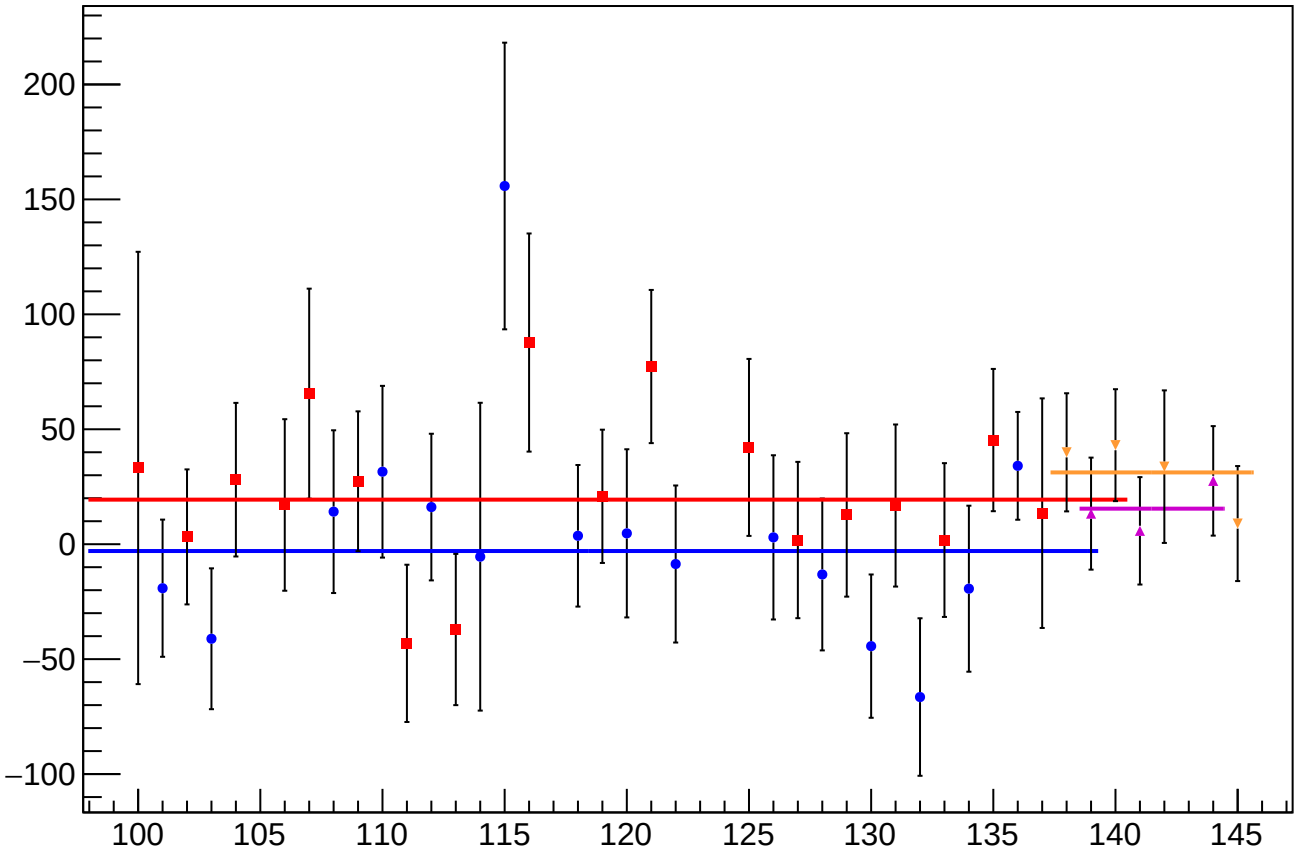
Left: 230.078+/-0.071 $\chi^2$/NDF: 184438.9/6

Right: 183.167+/-0.036 $\chi^2$/NDF: 2653391.3/33

In: 202.385+/-0.048 $\chi^2$/NDF:1122237.6/18

Out: 185.039+/-0.044 $\chi^2$/NDF:1993633.6/21

All: 193.021+/-0.032 $\chi^2$/NDF: 3187429.4/40




Right In: -2.967+/-8.454 $\chi^2$/NDF: 17.9/15

Left Out: 31.225+/-13.236 $\chi^2$/NDF:1.1/3

Right Out: 19.387+/-8.381 $\chi^2$/NDF: 14.5/17

Left In: 15.464+/-13.764 $\chi^2$/NDF:0.4/2

Left: 23.653+/-9.541 $\chi^2$/NDF: 2.3/6

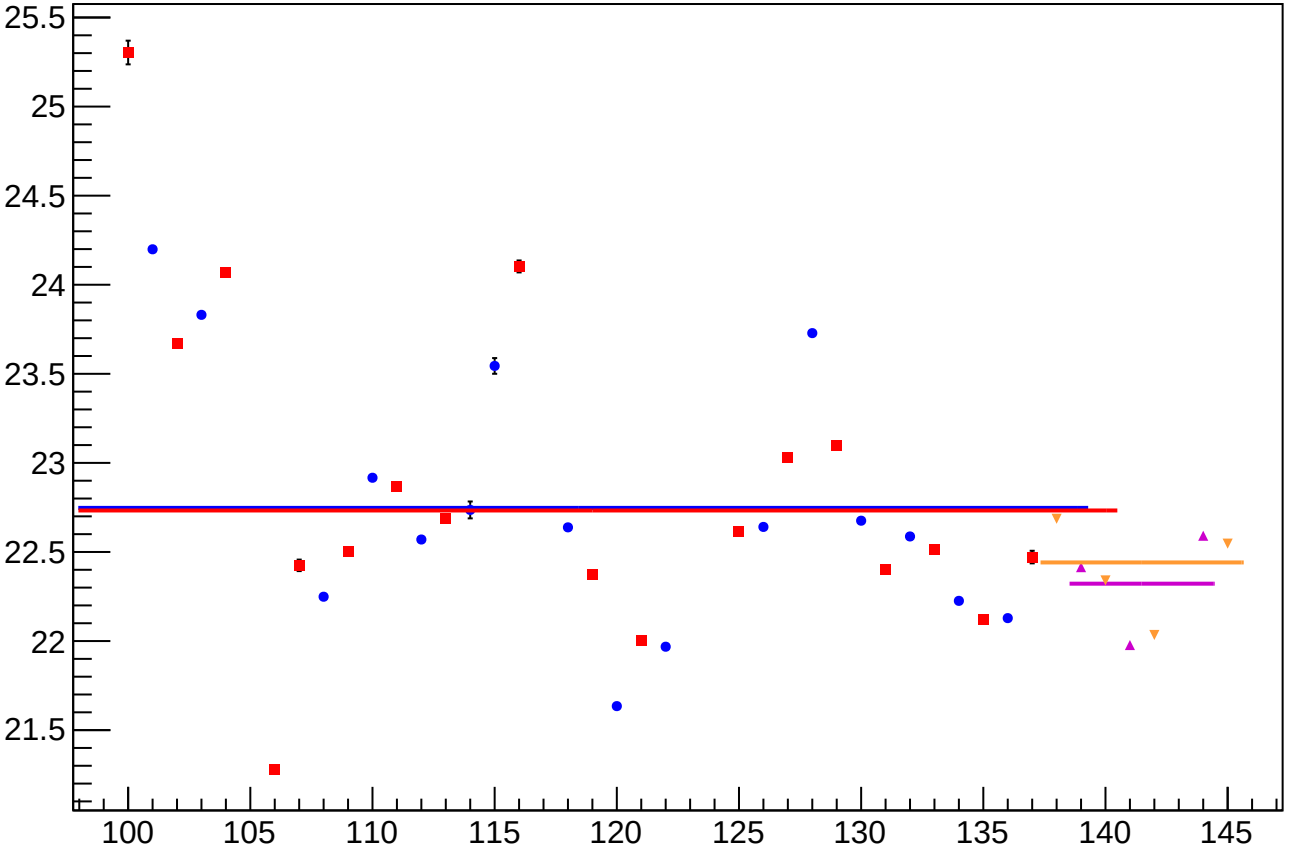
Right: 8.306+/-5.952 $\chi^2$/NDF: 36.0/33

In: 2.081+/-7.204 $\chi^2$/NDF:19.7/18

Out: 22.775+/-7.081 $\chi^2$/NDF:16.2/21

All: 12.606+/-5.050 $\chi^2$/NDF: 40.1/40

# 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: 22.441+/-0.009 $\chi^2$/NDF:553.0/3

Right Out: 22.733+/-0.006 $\chi^2$/NDF: 14389.6/17

Left In: 22.322+/-0.010 $\chi^2$/NDF:718.7/2

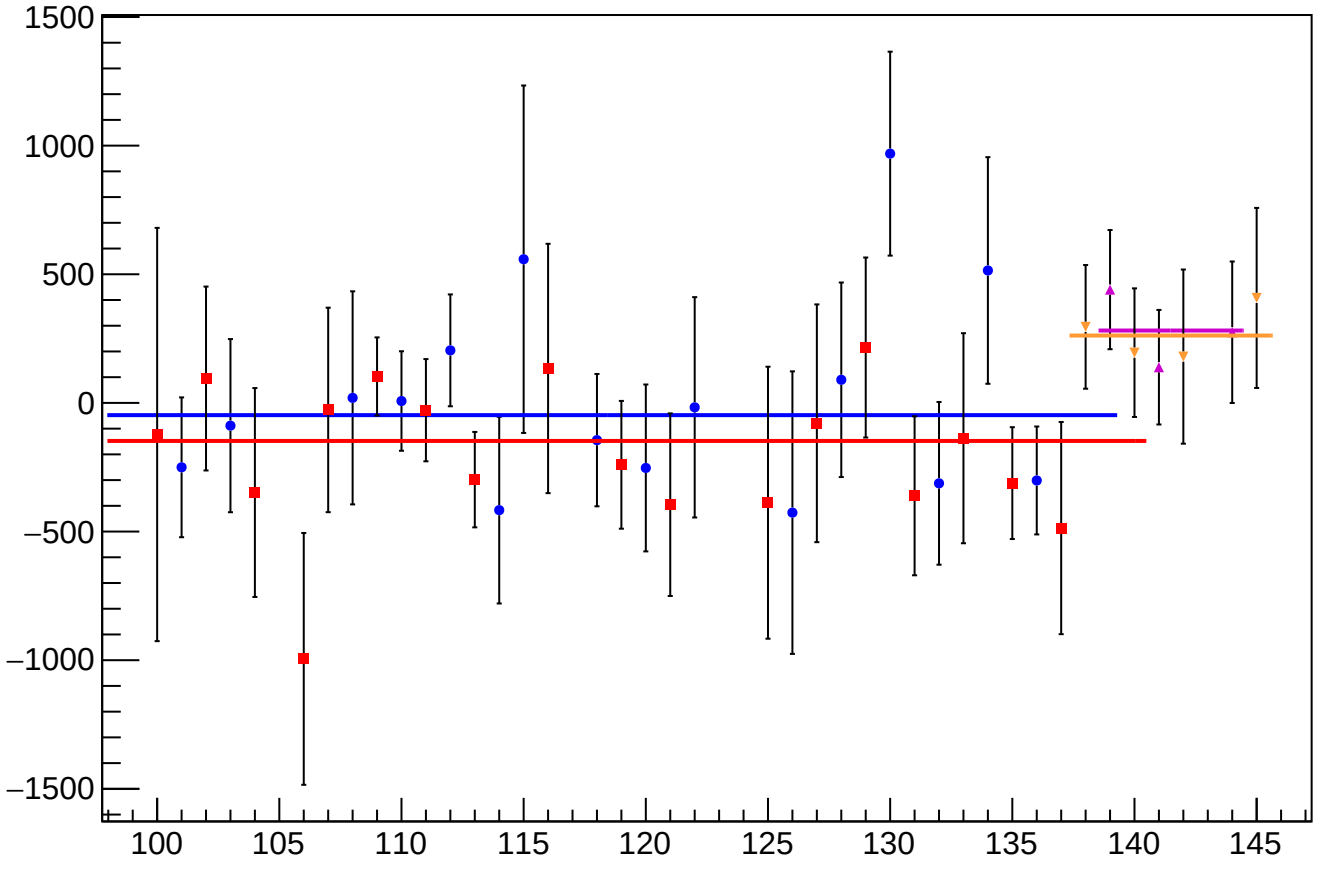
Left: 22.384+/-0.007 $\chi^2$/NDF: 1349.7/6

Right: 22.740+/-0.004 $\chi^2$/NDF: 29015.4/33

In: 22.631+/-0.005 $\chi^2$/NDF:16729.0/18

Out: 22.649+/-0.005 $\chi^2$/NDF:15636.0/21

All: 22.640+/-0.004 $\chi^2$/NDF: 32371.7/40




Right In: -47.523+/-76.571 $\chi^2$/NDF: 15.4/15

Left Out: 261.763+/-141.120 $\chi^2$/NDF:0.3/3

Right Out: -147.812+/-68.660 $\chi^2$/NDF: 11.5/17

Left In: 281.352+/-138.621 $\chi^2$/NDF:0.9/2

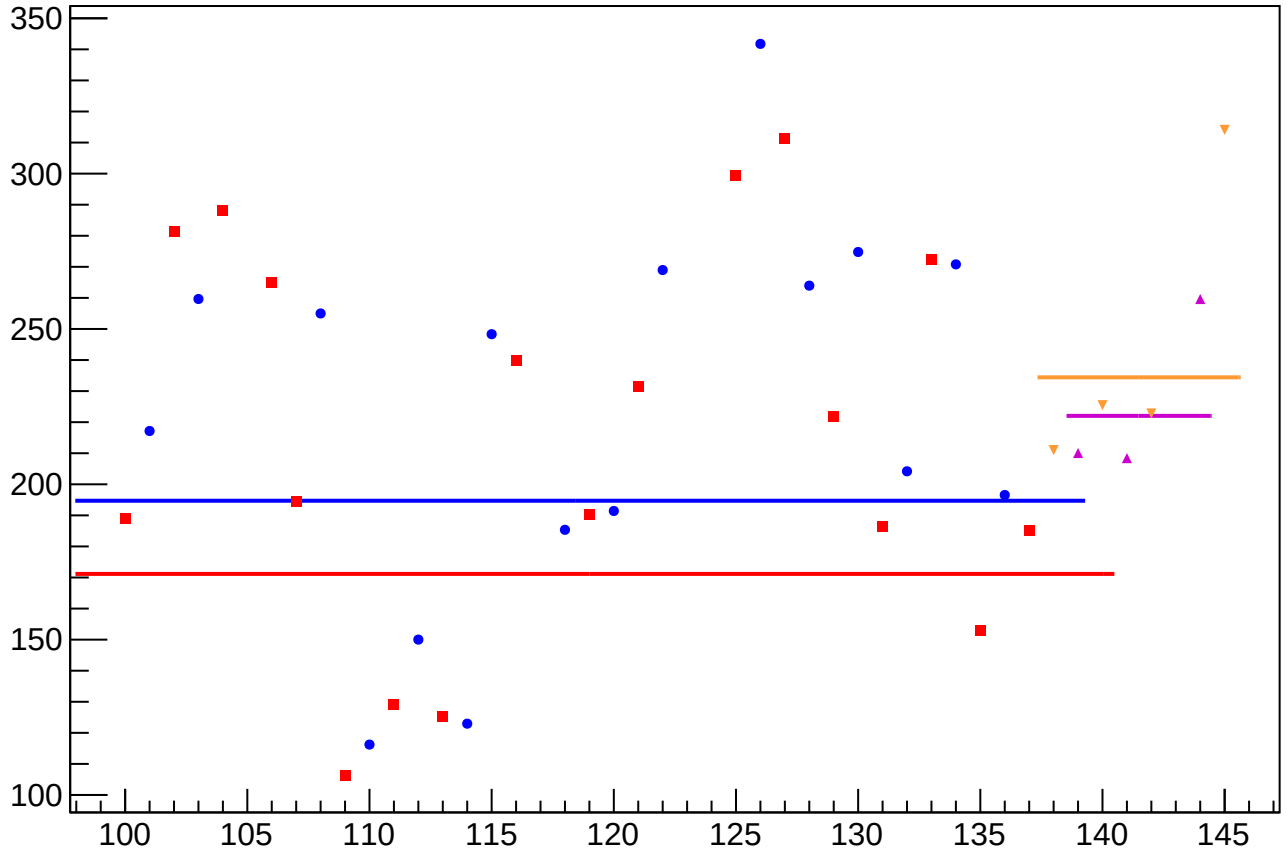
Left: 271.733+/-98.891 $\chi^2$/NDF: 1.2/6

Right: -103.114+/-51.119 $\chi^2$/NDF: 27.9/33

In: 29.364+/-67.025 $\chi^2$/NDF:20.6/18

Out: -69.417+/-61.740 $\chi^2$/NDF:18.7/21

All: -24.074+/-45.410 $\chi^2$/NDF: 40.4/40




Right In: 194.708+/-0.054 $\chi^2$/NDF: 1052288.9/15

Left Out: 234.429+/-0.100 $\chi^2$/NDF:127559.4/3

Right Out: 171.156+/-0.049 $\chi^2$/NDF: 1611935.6/17

Left In: 222.032+/-0.098 $\chi^2$/NDF:50213.6/2

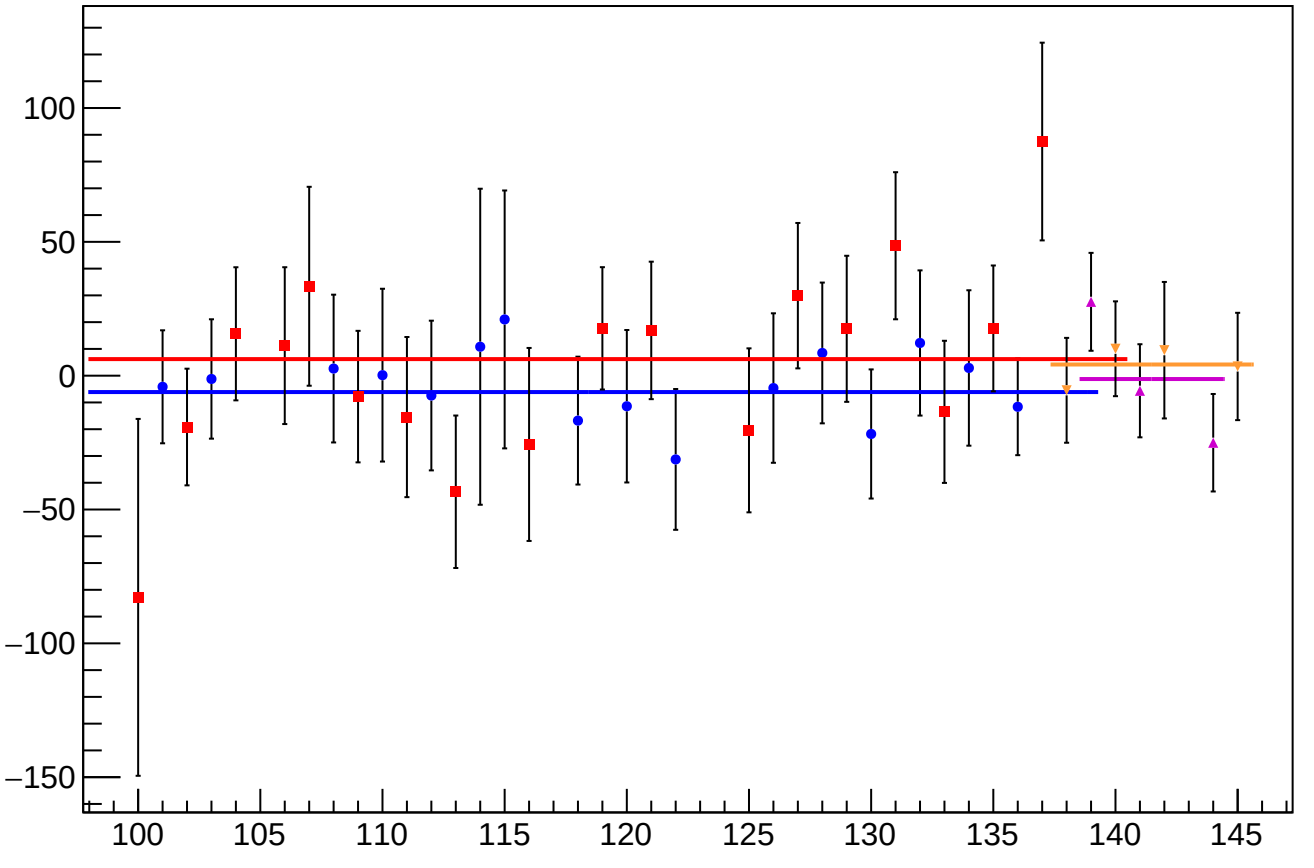
Left: 228.120+/-0.070 $\chi^2$/NDF: 185628.6/6

Right: 181.653+/-0.036 $\chi^2$/NDF: 2769105.7/33

In: 201.096+/-0.047 $\chi^2$/NDF:1162043.0/18

Out: 183.267+/-0.044 $\chi^2$/NDF:2064598.6/21

All: 191.451+/-0.032 $\chi^2$/NDF: 3303196.6/40




Right In: -6.119+/-6.592 $\chi^2$/NDF: 3.1/15

Left Out: 4.178+/-10.092 $\chi^2$/NDF:0.4/3

Right Out: 6.195+/-6.580 $\chi^2$/NDF: 18.6/17

Left In: -1.252+/-10.363 $\chi^2$/NDF:4.3/2

Left: 1.535+/-7.230 $\chi^2$/NDF: 4.8/6

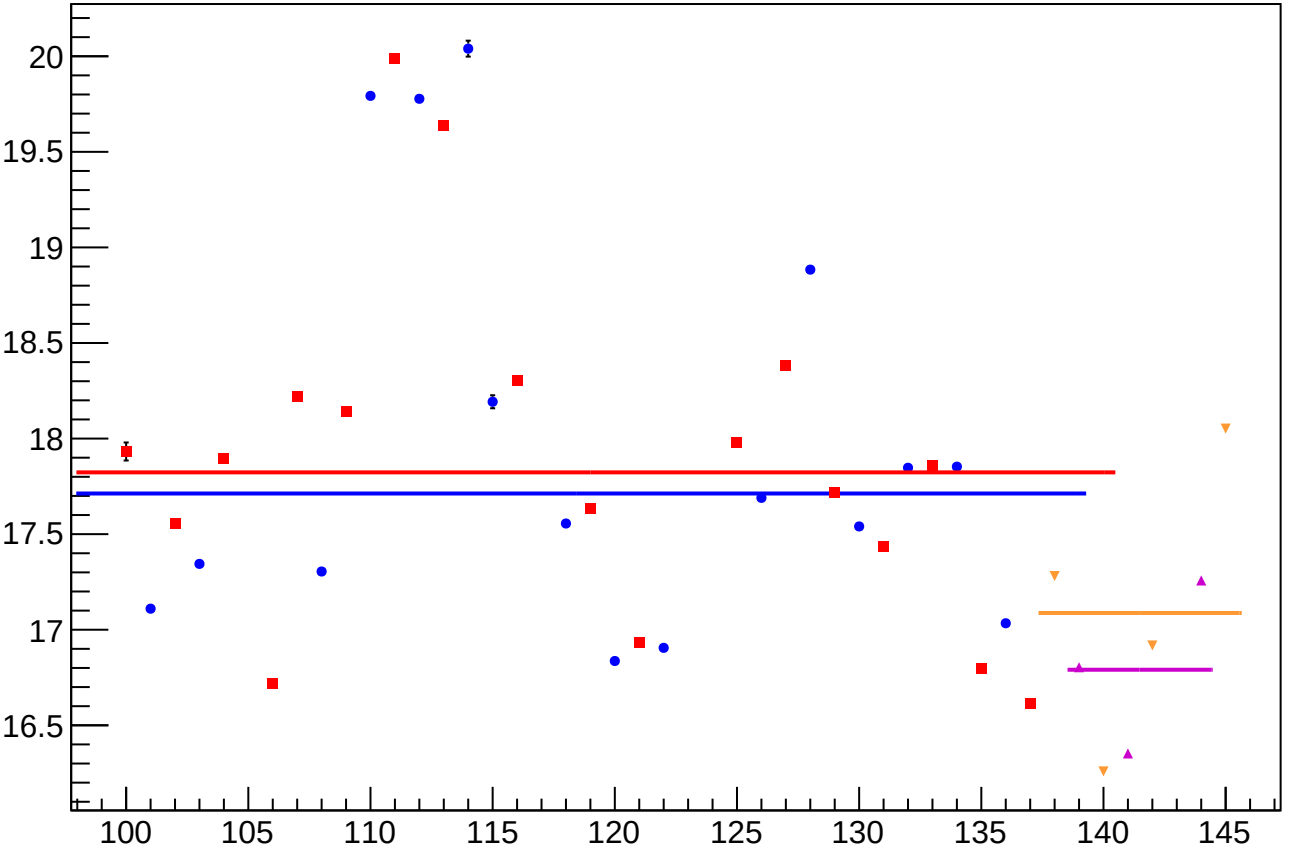
Right: 0.049+/-4.657 $\chi^2$/NDF: 23.5/33

In: -4.717+/-5.562 $\chi^2$/NDF:7.5/18

Out: 5.593+/-5.512 $\chi^2$/NDF:19.1/21

All: 0.485+/-3.915 $\chi^2$/NDF: 28.3/40

# 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: 17.088+/-0.007 $\chi^2$/NDF:9290.3/3

Right Out: 17.823+/-0.005 $\chi^2$/NDF: 32502.9/17

Left In: 16.791+/-0.007 $\chi^2$/NDF:2584.0/2

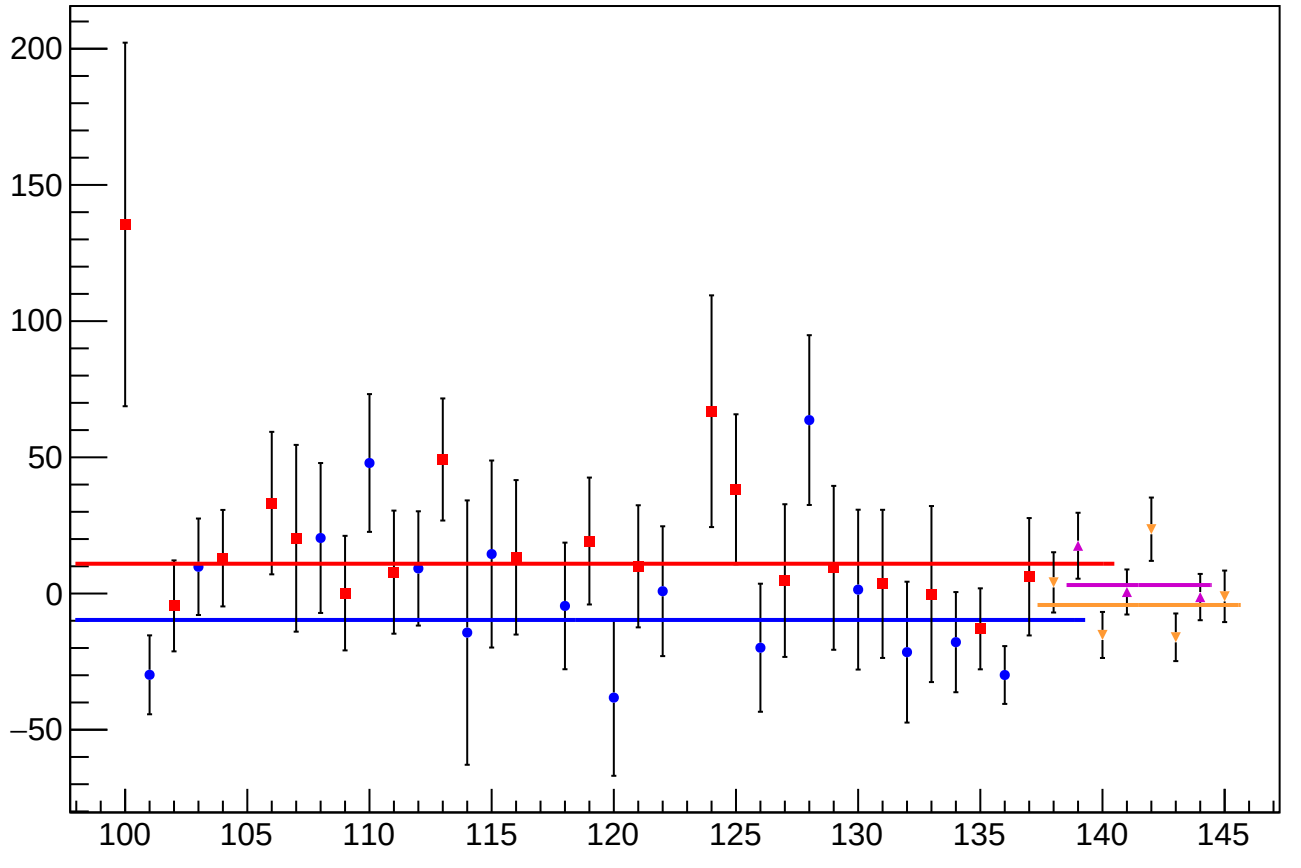
Left: 16.943+/-0.005 $\chi^2$/NDF: 12717.2/6

Right: 17.768+/-0.003 $\chi^2$/NDF: 68768.1/33

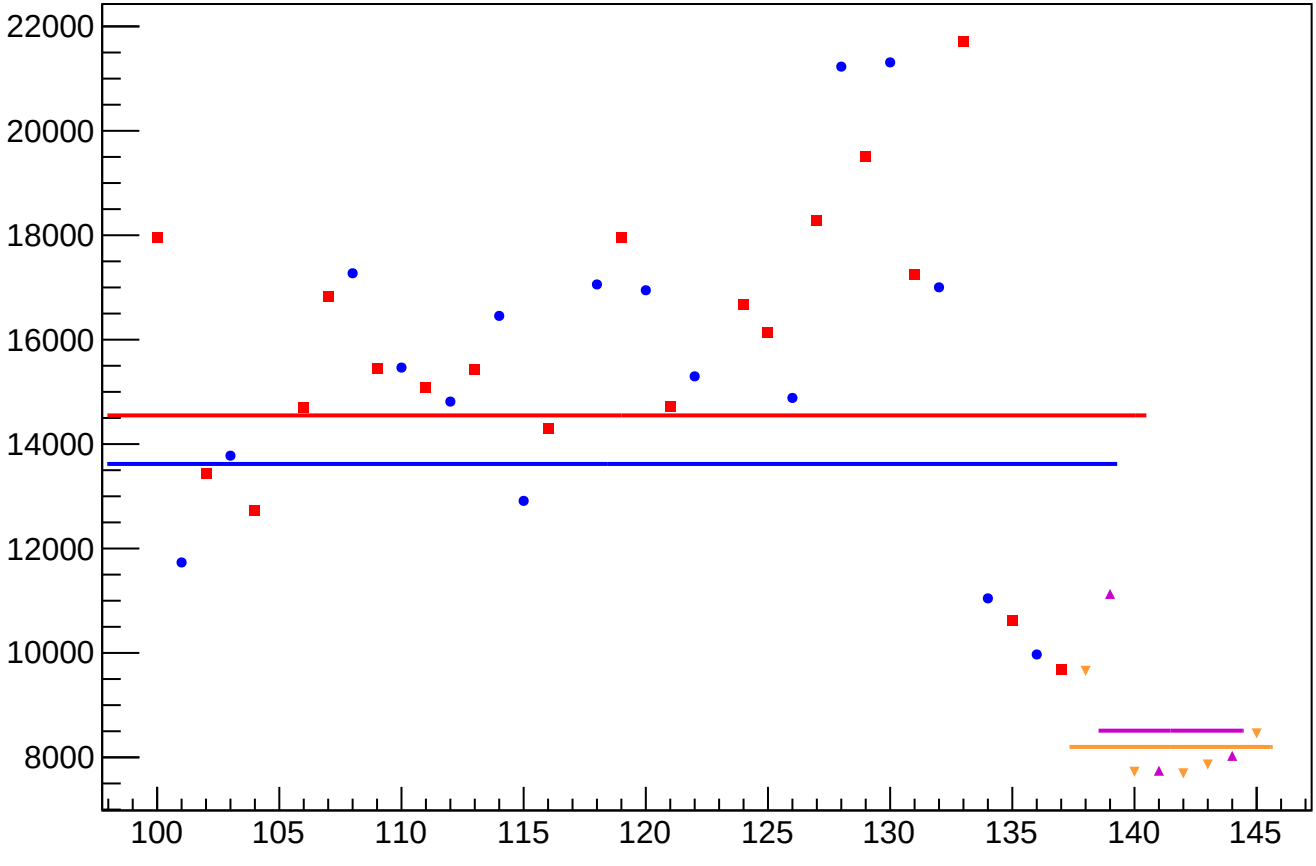
In: 17.447+/-0.004 $\chi^2$/NDF:49837.2/18

Out: 17.604+/-0.004 $\chi^2$/NDF:49248.7/21

All: 17.526+/-0.003 $\chi^2$/NDF: 99886.8/40


diff_bpm_4aX_4acX_avg_mean vs Slug, Sign Corrected
200
150
100
50
0
−50
100
105
110
115
120
125
130
135
140
145
Right In: -9.702+/-5.231 χ²/NDF: 22.0/15
Left Out: -4.205+/-4.310 χ²/NDF:9.9/4
Right Out: 10.938+/-5.436 χ²/NDF: 14.1/18
Left In: 3.118+/-5.323 χ²/NDF:1.8/2
Left: -1.305+/-3.350 χ²/NDF: 12.9/7
Right: 0.222+/-3.769 χ²/NDF: 43.6/34
In: -3.403+/-3.731 χ²/NDF:26.7/18
Out: 1.641+/-3.377 χ²/NDF:28.8/23
All: -0.631+/-2.504 χ²/NDF: 56.5/42

# diff_bpm_4aX_4acX_avg_rms vs Slug, Sign Corrected




Right In: 13619.845+/-3.699 $\chi^2$/NDF: 746985.9/15

Left Out: 8199.401+/-3.048 $\chi^2$/NDF:49304.8/4

Right Out: 14549.658+/-3.844 $\chi^2$/NDF: 555902.2/18

Left In: 8511.208+/-3.764 $\chi^2$/NDF:117334.2/2

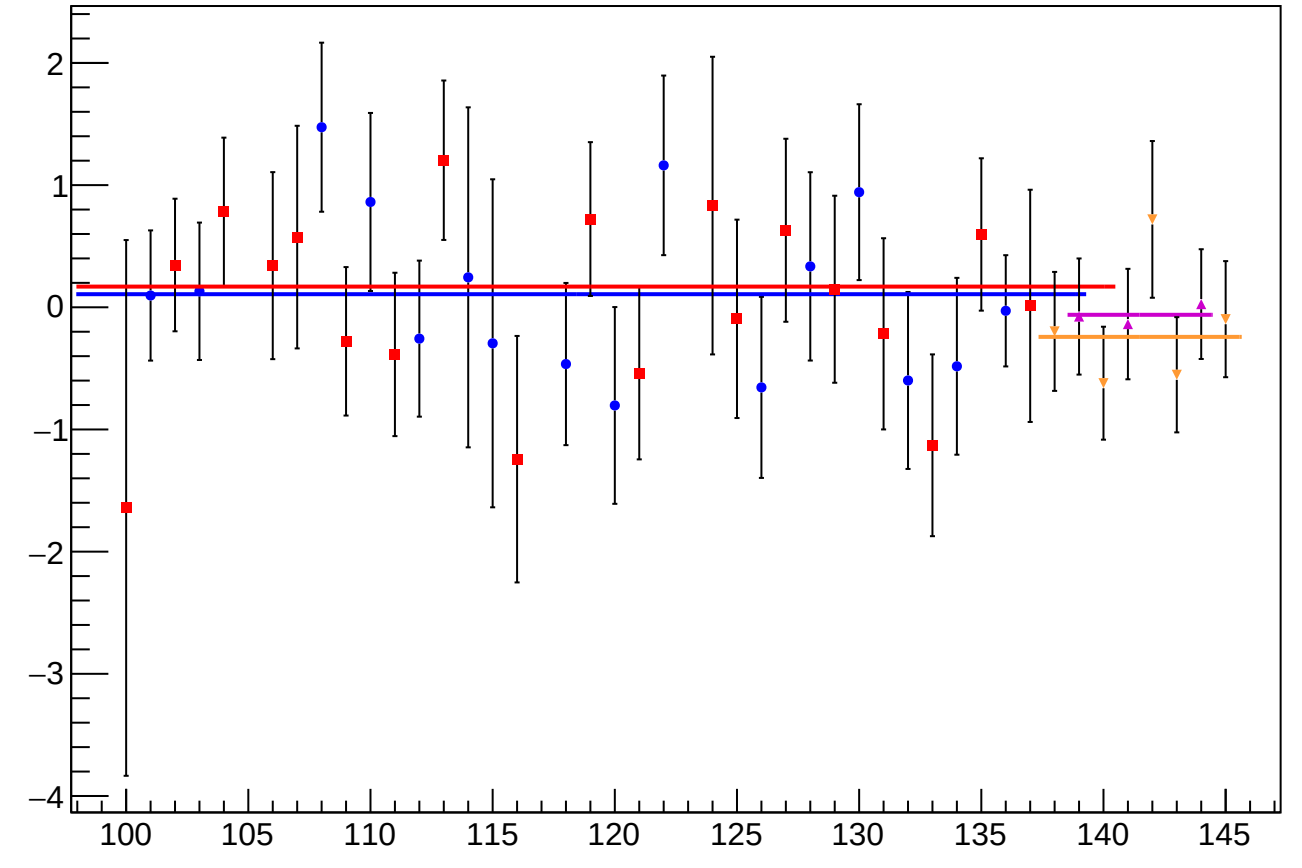
Left: 8322.887+/-2.369 $\chi^2$/NDF: 170784.0/7

Right: 14066.907+/-2.665 $\chi^2$/NDF: 1333265.9/34

In: 11109.772+/-2.638 $\chi^2$/NDF:1801420.6/18

Out: 10650.571+/-2.388 $\chi^2$/NDF:2280898.1/23

All: 10857.384+/-1.771 $\chi^2$/NDF: 4098969.7/4




Right In: 0.107+/-0.172 $\chi^2$/NDF: 13.7/15

Left Out: -0.242+/-0.222 $\chi^2$/NDF:3.5/4

Right Out: 0.169+/-0.169 $\chi^2$/NDF: 14.1/18

Left In: -0.061+/-0.265 $\chi^2$/NDF:0.1/2

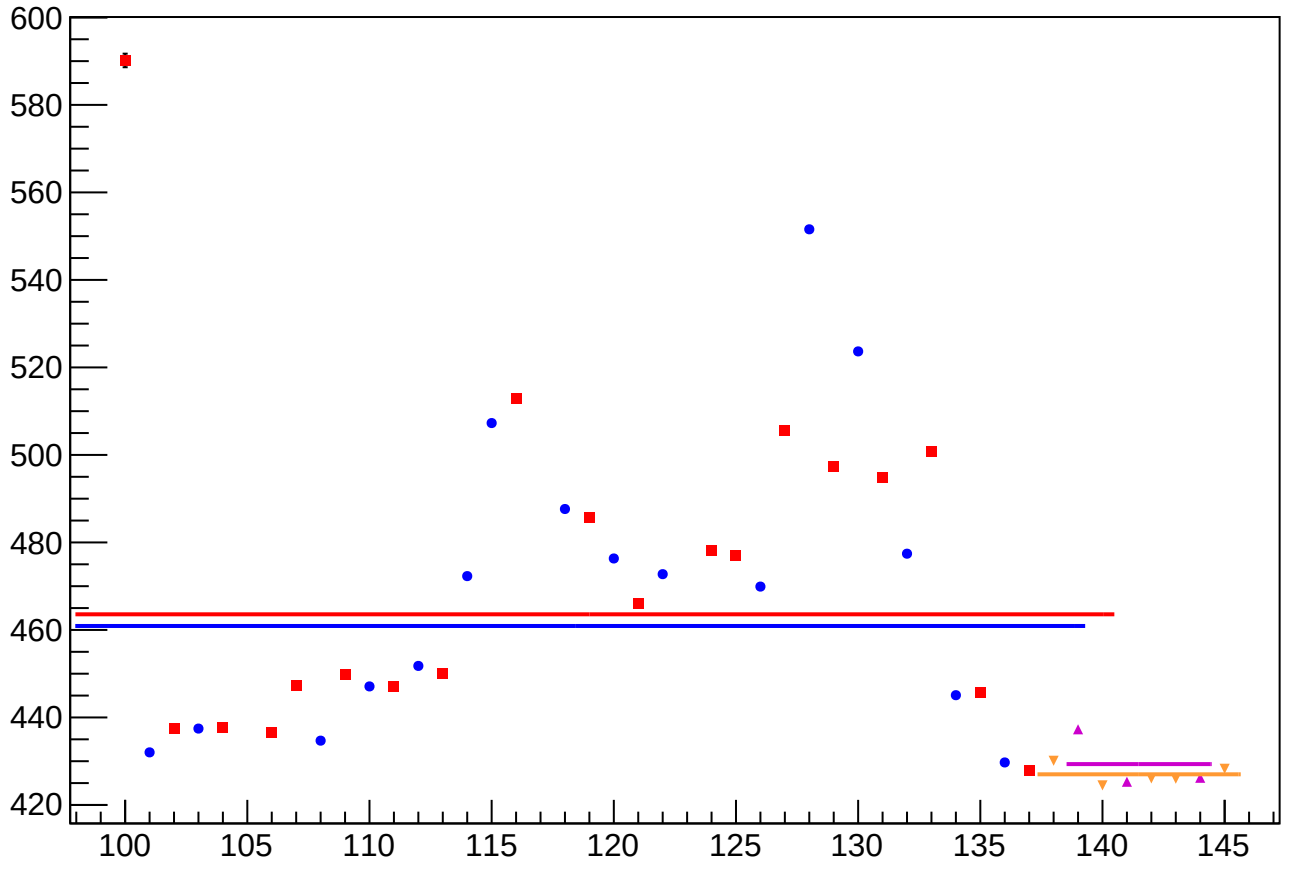
Left: -0.167+/-0.170 $\chi^2$/NDF: 3.8/7

Right: 0.139+/-0.121 $\chi^2$/NDF: 27.8/34

In: 0.057+/-0.144 $\chi^2$/NDF:14.0/18

Out: 0.018+/-0.135 $\chi^2$/NDF:19.7/23

All: 0.036+/-0.098 $\chi^2$/NDF: 33.8/42




Right In: 460.906+/-0.121 $\chi^2$/NDF: 74930.1/15

Left Out: 427.005+/-0.157 $\chi^2$/NDF:168.3/4

Right Out: 463.573+/-0.120 $\chi^2$/NDF: 52175.6/18

Left In: 429.340+/-0.187 $\chi^2$/NDF:816.4/2

Left: 427.970+/-0.120 $\chi^2$/NDF: 1076.0/7

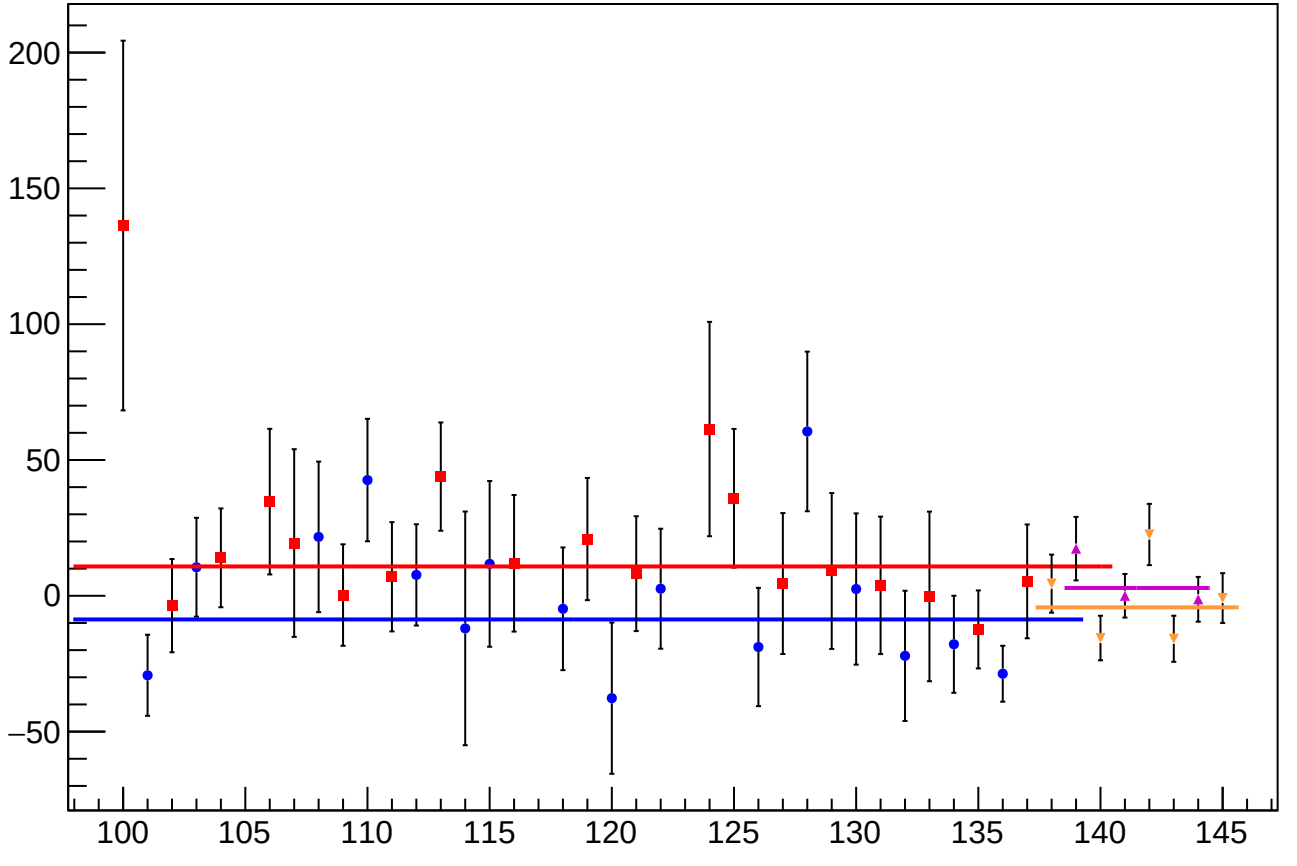
Right: 462.257+/-0.085 $\chi^2$/NDF: 127350.1/34

In: 451.555+/-0.102 $\chi^2$/NDF:95769.5/18

Out: 450.127+/-0.095 $\chi^2$/NDF:86598.5/23

All: 450.793+/-0.070 $\chi^2$/NDF: 182472.8/42

# diff_bpm_4aX_4eX_avg_mean vs Slug, Sign Corrected




Right In: -8.707+/-5.036 $\chi^2$/NDF: 22.3/15

Left Out: -4.258+/-4.178 $\chi^2$/NDF:10.2/4

Right Out: 10.807+/-5.192 $\chi^2$/NDF: 13.9/18

Left In: 2.882+/-5.161 $\chi^2$/NDF:1.9/2

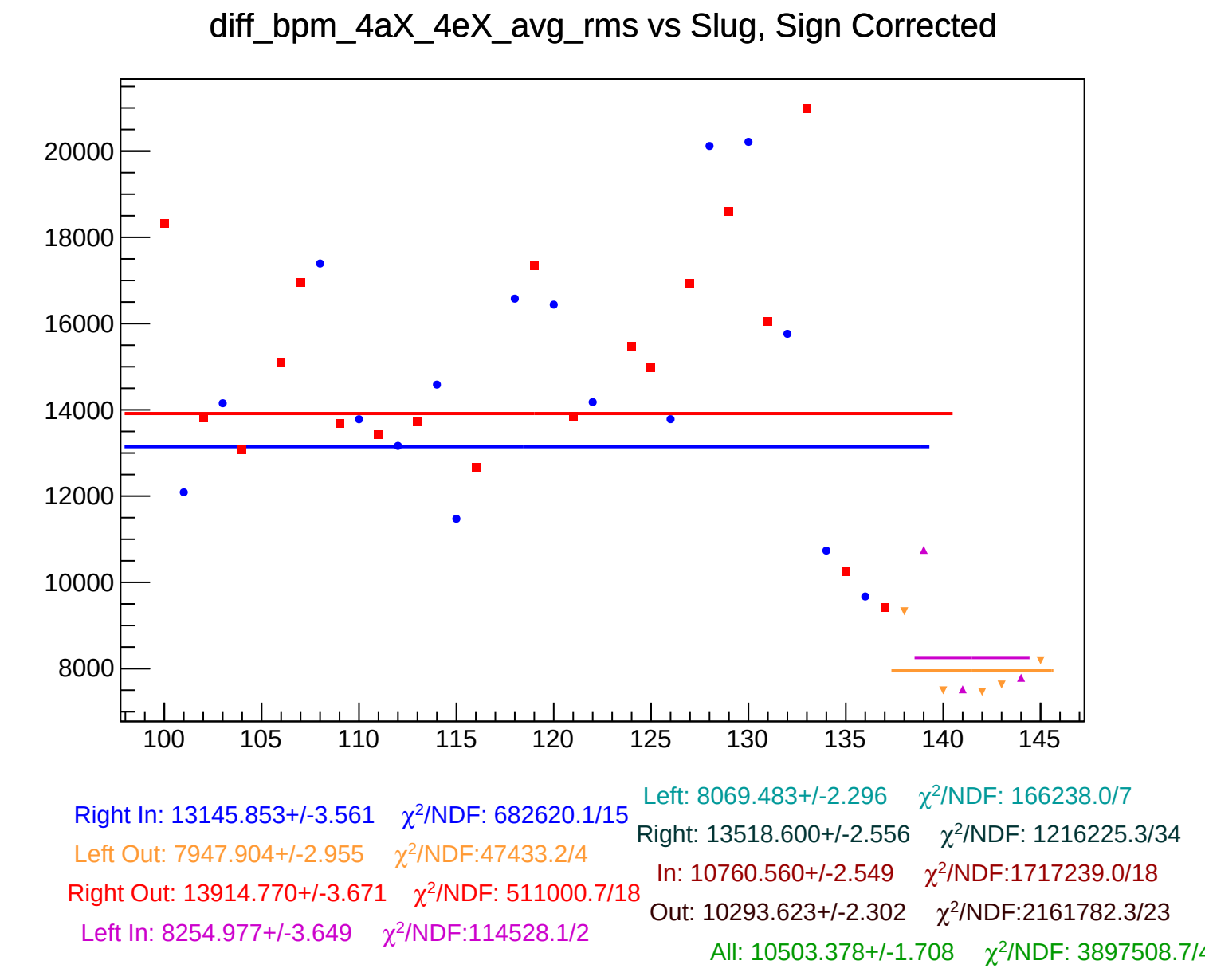
Left: -1.431+/-3.248 $\chi^2$/NDF: 13.3/7

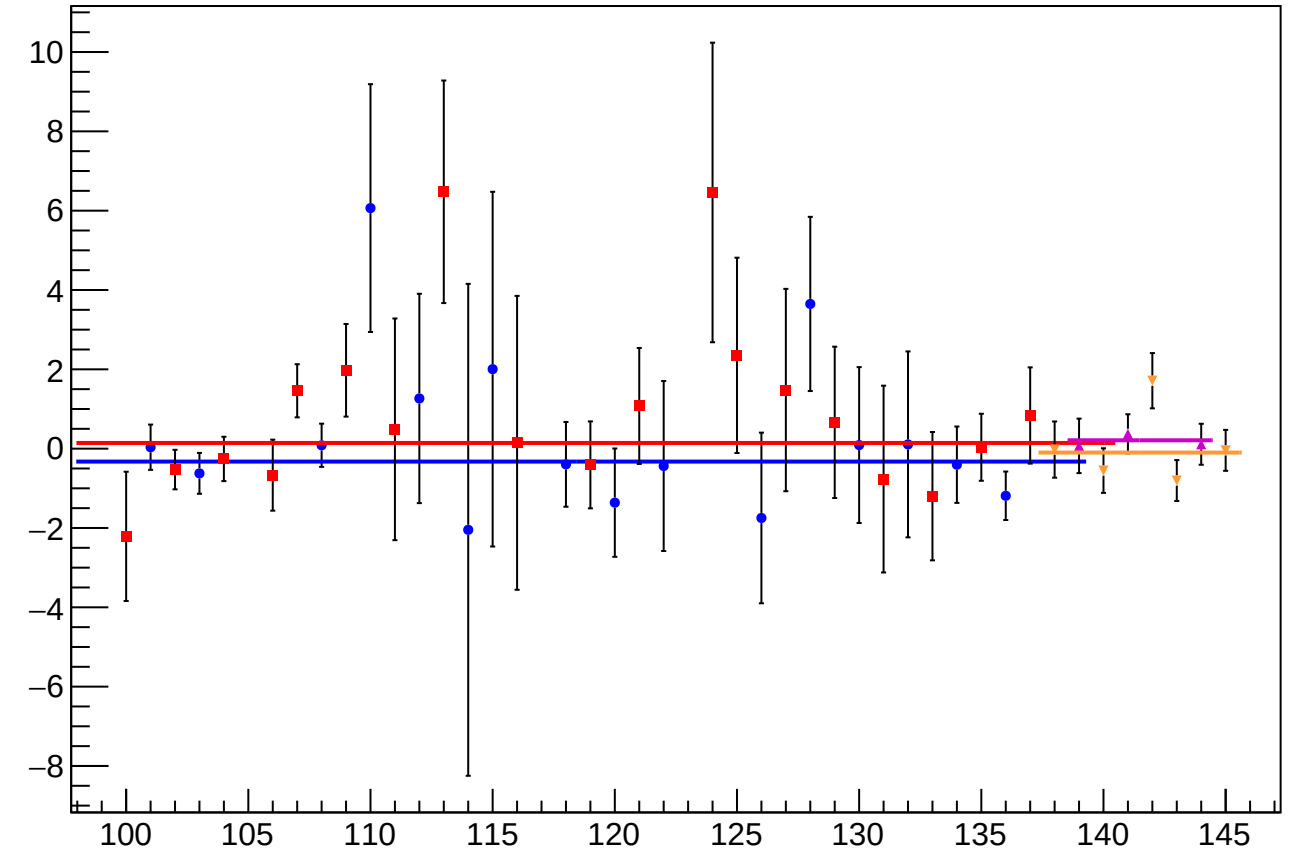
Right: 0.753+/-3.615 $\chi^2$/NDF: 43.4/34

In: -3.055+/-3.604 $\chi^2$/NDF:26.8/18

Out: 1.665+/-3.255 $\chi^2$/NDF:29.2/23

All: -0.456+/-2.416 $\chi^2$/NDF: 56.9/42


diff_bpm_4aX_4eX_avg_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
100
105
110
115
120
125
130
135
140
145
Right In: 13145.853+/-3.561 χ²/NDF: 682620.1/15
Left Out: 7947.904+/-2.955 χ²/NDF:47433.2/4
Right Out: 13914.770+/-3.671 χ²/NDF: 511000.7/18
Left In: 8254.977+/-3.649 χ²/NDF:114528.1/2
Left: 8069.483+/-2.296 χ²/NDF: 166238.0/7
Right: 13518.600+/-2.556 χ²/NDF: 1216225.3/34
In: 10760.560+/-2.549 χ²/NDF:1717239.0/18
Out: 10293.623+/-2.302 χ²/NDF:2161782.3/23
All: 10503.378+/-1.708 χ²/NDF: 3897508.7/4




Right In: -0.326+/-0.244 $\chi^2$/NDF: 12.6/15

Left Out: -0.099+/-0.261 $\chi^2$/NDF:9.3/4

Right Out: 0.144+/-0.244 $\chi^2$/NDF: 22.5/18

Left In: 0.211+/-0.316 $\chi^2$/NDF:0.2/2

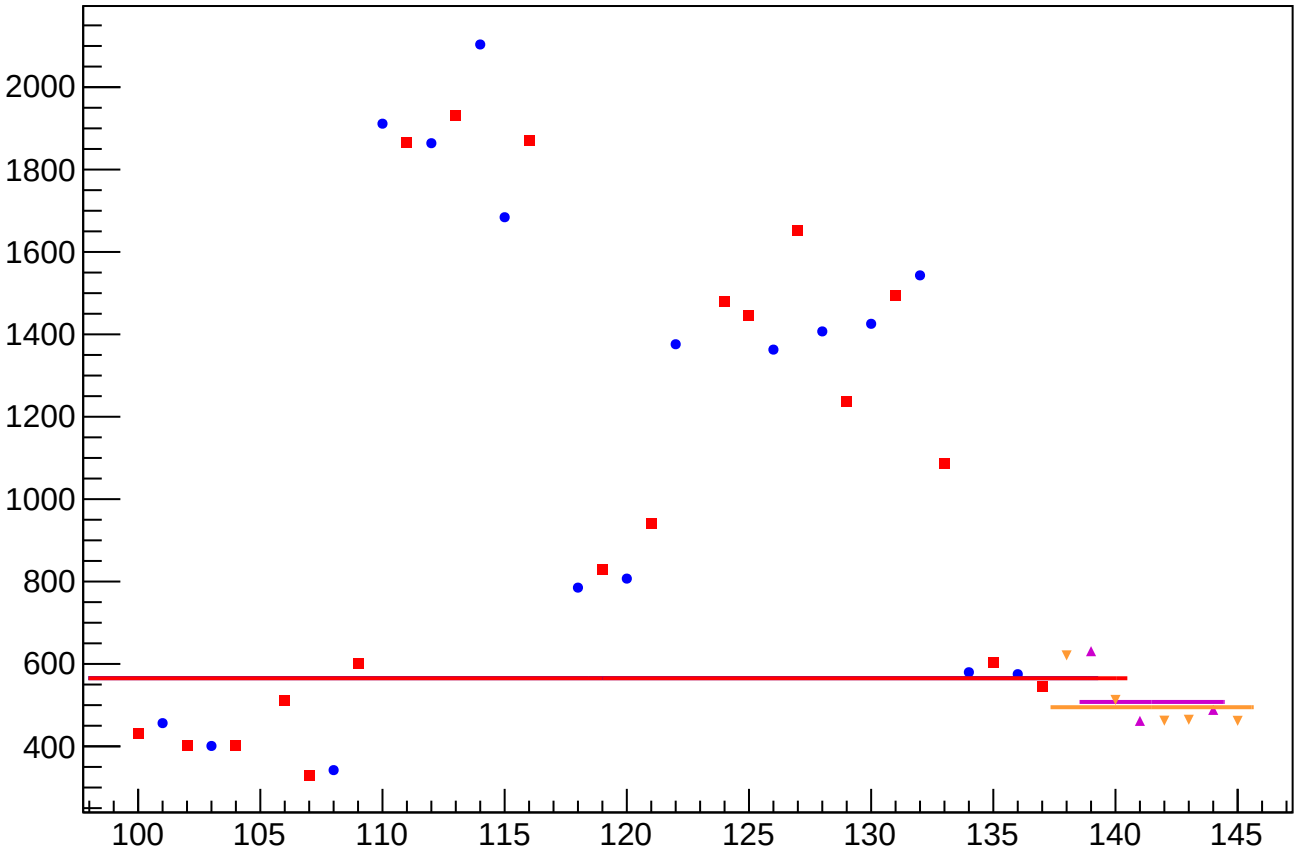
Left: 0.026+/-0.201 $\chi^2$/NDF: 10.1/7

Right: -0.091+/-0.173 $\chi^2$/NDF: 36.9/34

In: -0.125+/-0.193 $\chi^2$/NDF:14.6/18

Out: 0.030+/-0.178 $\chi^2$/NDF:32.2/23

All: -0.041+/-0.131 $\chi^2$/NDF: 47.1/42




Right In: 565.531+/-0.173 $\chi^2$/NDF: 3450533.8/15

Left Out: 494.949+/-0.184 $\chi^2$/NDF:84586.2/4

Right Out: 565.223+/-0.173 $\chi^2$/NDF: 3571620.7/18

Left In: 507.745+/-0.224 $\chi^2$/NDF:84547.5/2

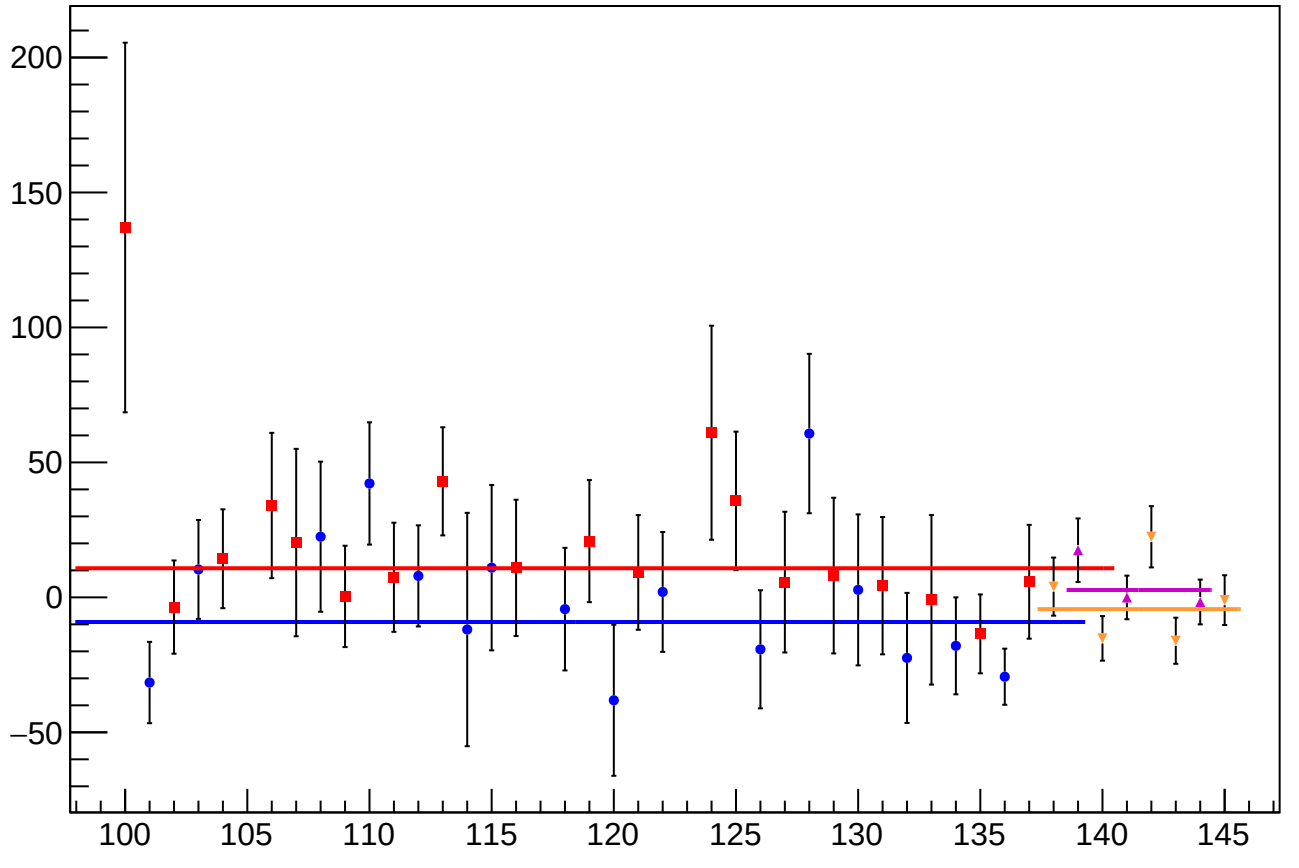
Left: 500.120+/-0.142 $\chi^2$/NDF: 171083.3/7

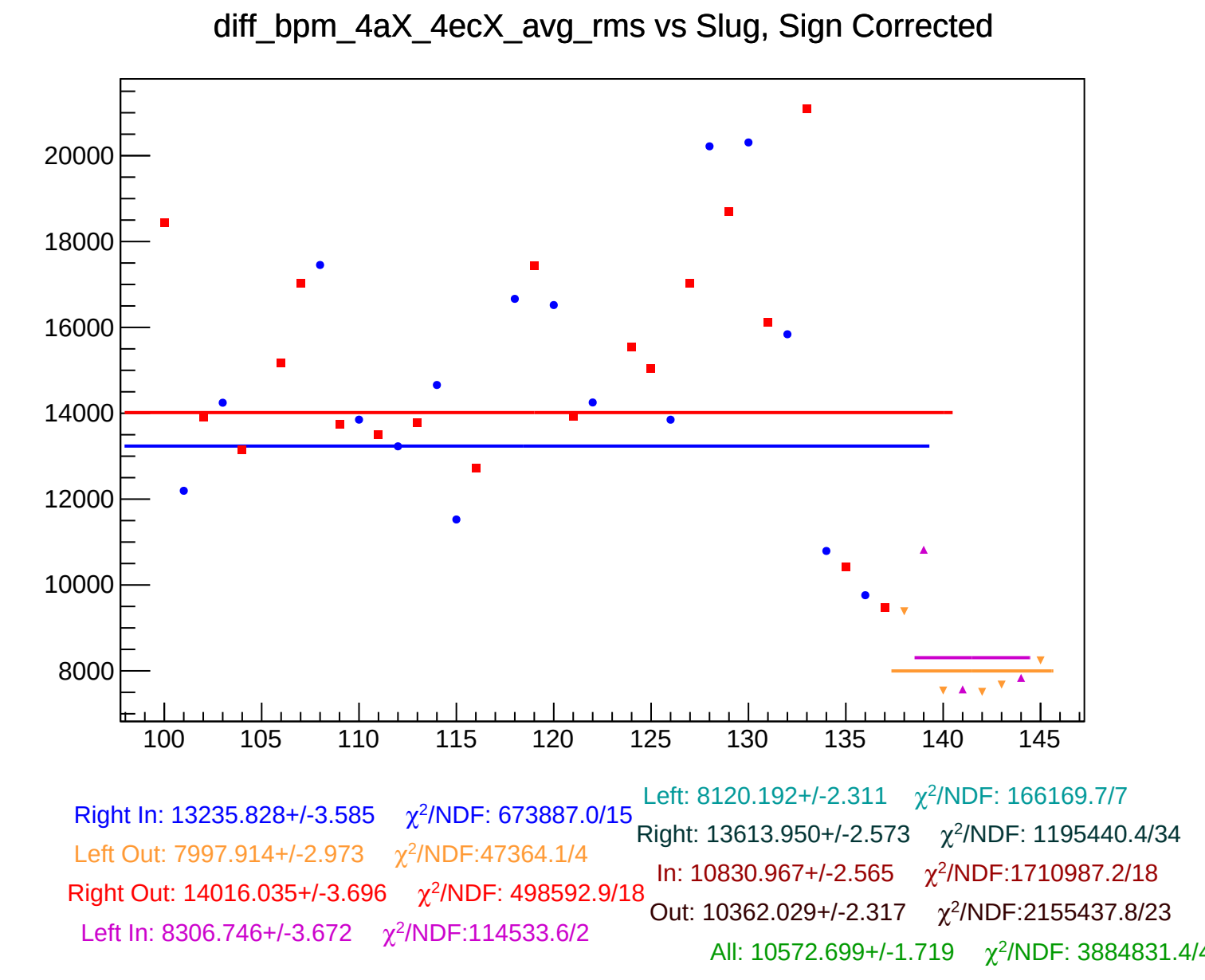
Right: 565.377+/-0.122 $\chi^2$/NDF: 7022156.1/34

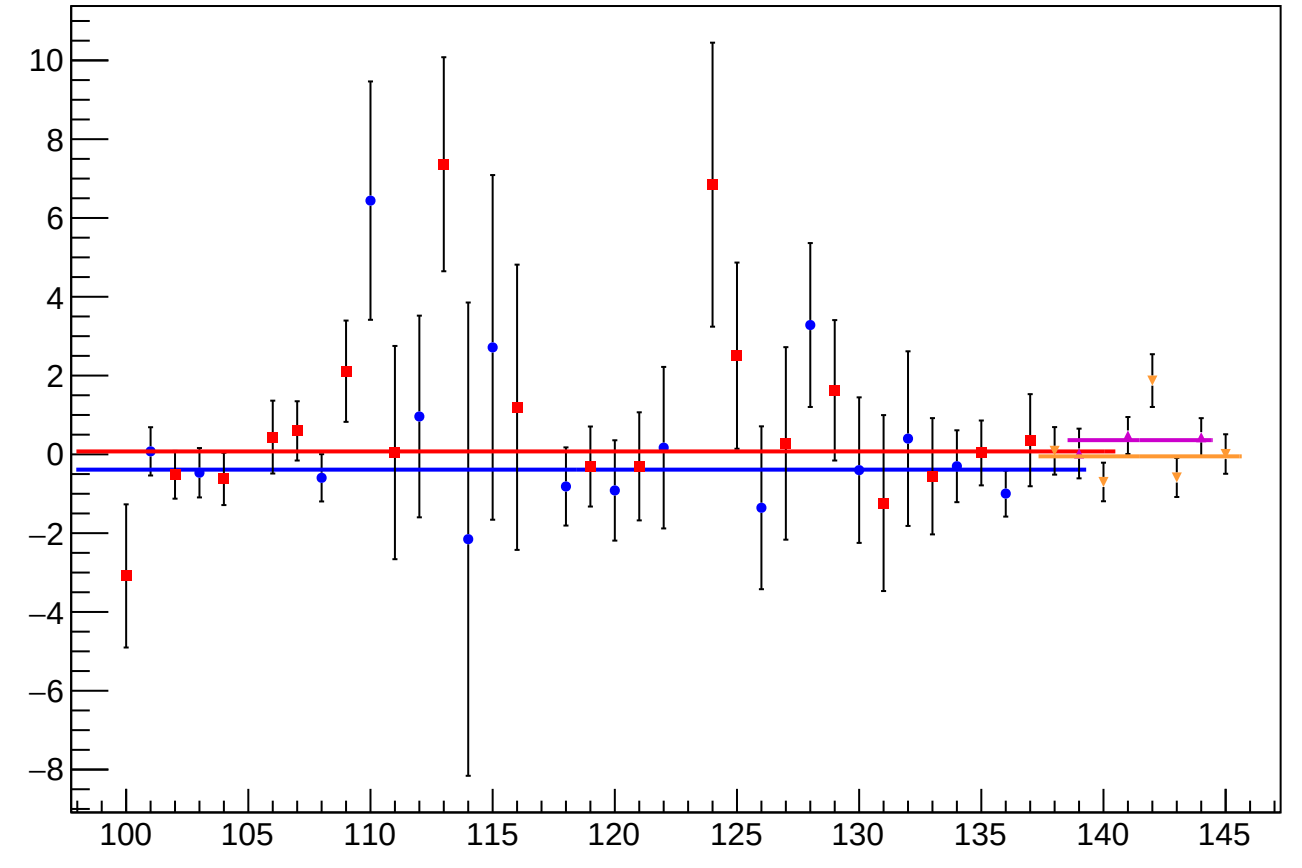
In: 543.964+/-0.137 $\chi^2$/NDF:3576904.4/18

Out: 532.336+/-0.126 $\chi^2$/NDF:3733610.8/23

All: 537.680+/-0.093 $\chi^2$/NDF: 7314427.2/42


diff_bpm_4aX_4ecX_avg_mean vs Slug, Sign Corrected
200
150
100
50
0
−50
100
105
110
115
120
125
130
135
140
145
Right In: -9.130+/-5.069 χ²/NDF: 22.7/15
Left Out: -4.364+/-4.205 χ²/NDF:9.9/4
Right Out: 10.788+/-5.227 χ²/NDF: 13.7/18
Left In: 2.722+/-5.194 χ²/NDF:2.0/2
Left: -1.559+/-3.268 χ²/NDF: 13.0/7
Right: 0.523+/-3.639 χ²/NDF: 43.9/34
In: -3.348+/-3.628 χ²/NDF:27.4/18
Out: 1.588+/-3.276 χ²/NDF:28.7/23
All: -0.629+/-2.431 χ²/NDF: 57.1/42


diff_bpm_4aX_4ecX_avg_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
100
105
110
115
120
125
130
135
140
145
Right In: 13235.828+/-3.585 χ²/NDF: 673887.0/15
Left Out: 7997.914+/-2.973 χ²/NDF:47364.1/4
Right Out: 14016.035+/-3.696 χ²/NDF: 498592.9/18
Left In: 8306.746+/-3.672 χ²/NDF:114533.6/2
Left: 8120.192+/-2.311 χ²/NDF: 166169.7/7
Right: 13613.950+/-2.573 χ²/NDF: 1195440.4/34
In: 10830.967+/-2.565 χ²/NDF:1710987.2/18
Out: 10362.029+/-2.317 χ²/NDF:2155437.8/23
All: 10572.699+/-1.719 χ²/NDF: 3884831.4/4




Right In: -0.388+/-0.256 $\chi^2$/NDF: 11.7/15

Left Out: -0.050+/-0.241 $\chi^2$/NDF:11.3/4

Right Out: 0.075+/-0.265 $\chi^2$/NDF: 21.7/18

Left In: 0.361+/-0.297 $\chi^2$/NDF:0.4/2

Left: 0.113+/-0.187 $\chi^2$/NDF: 12.8/7

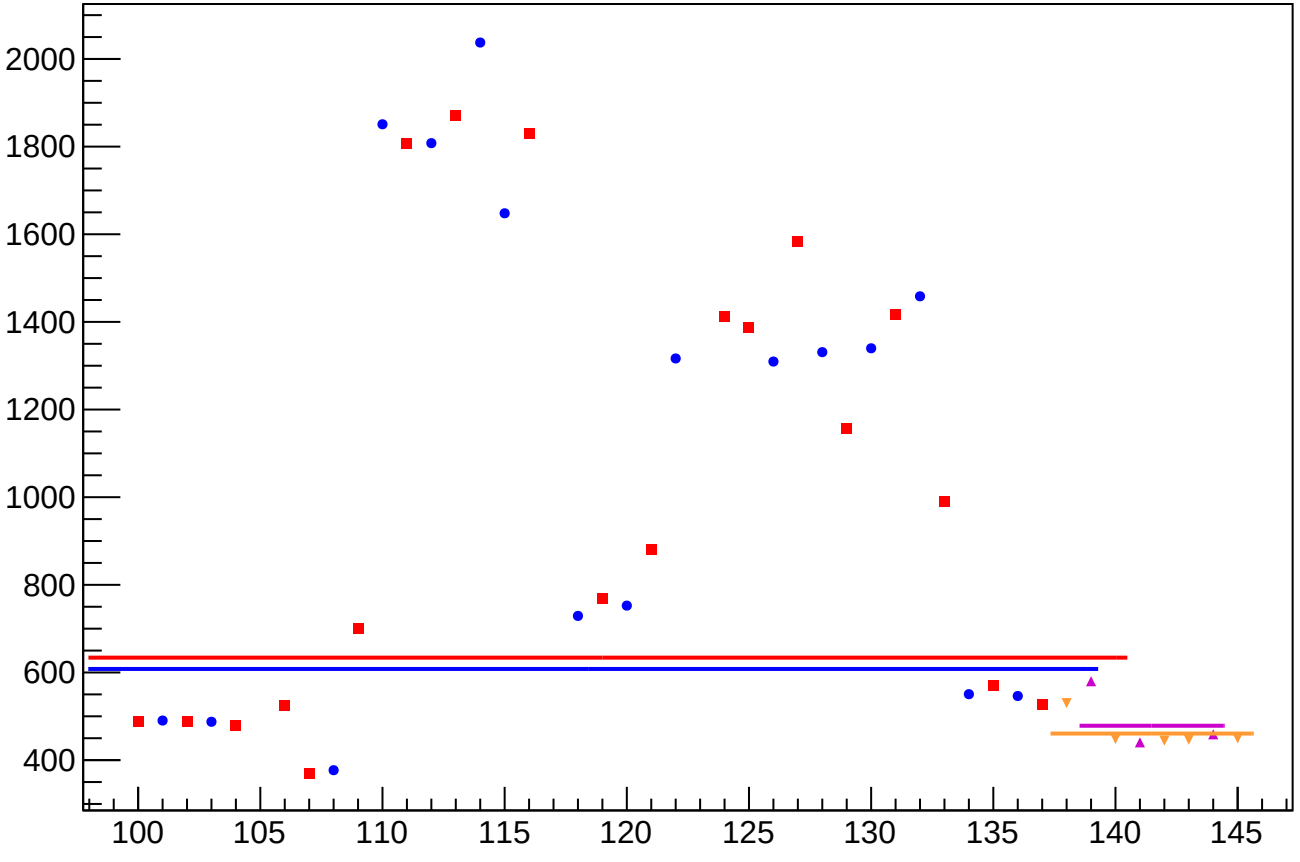
Right: -0.164+/-0.184 $\chi^2$/NDF: 34.9/34

In: -0.069+/-0.194 $\chi^2$/NDF:15.7/18

Out: 0.006+/-0.178 $\chi^2$/NDF:33.1/23

All: -0.028+/-0.131 $\chi^2$/NDF: 48.8/42

# diff_bpm_4aX_4ecX_dd_rms vs Slug, Sign Corrected




Right In: 608.063+/-0.181 $\chi^2$/NDF: 2852722.1/15

Left Out: 460.660+/-0.170 $\chi^2$/NDF:31611.0/4

Right Out: 633.883+/-0.187 $\chi^2$/NDF: 2788449.1/18

Left In: 478.479+/-0.210 $\chi^2$/NDF:68191.2/2

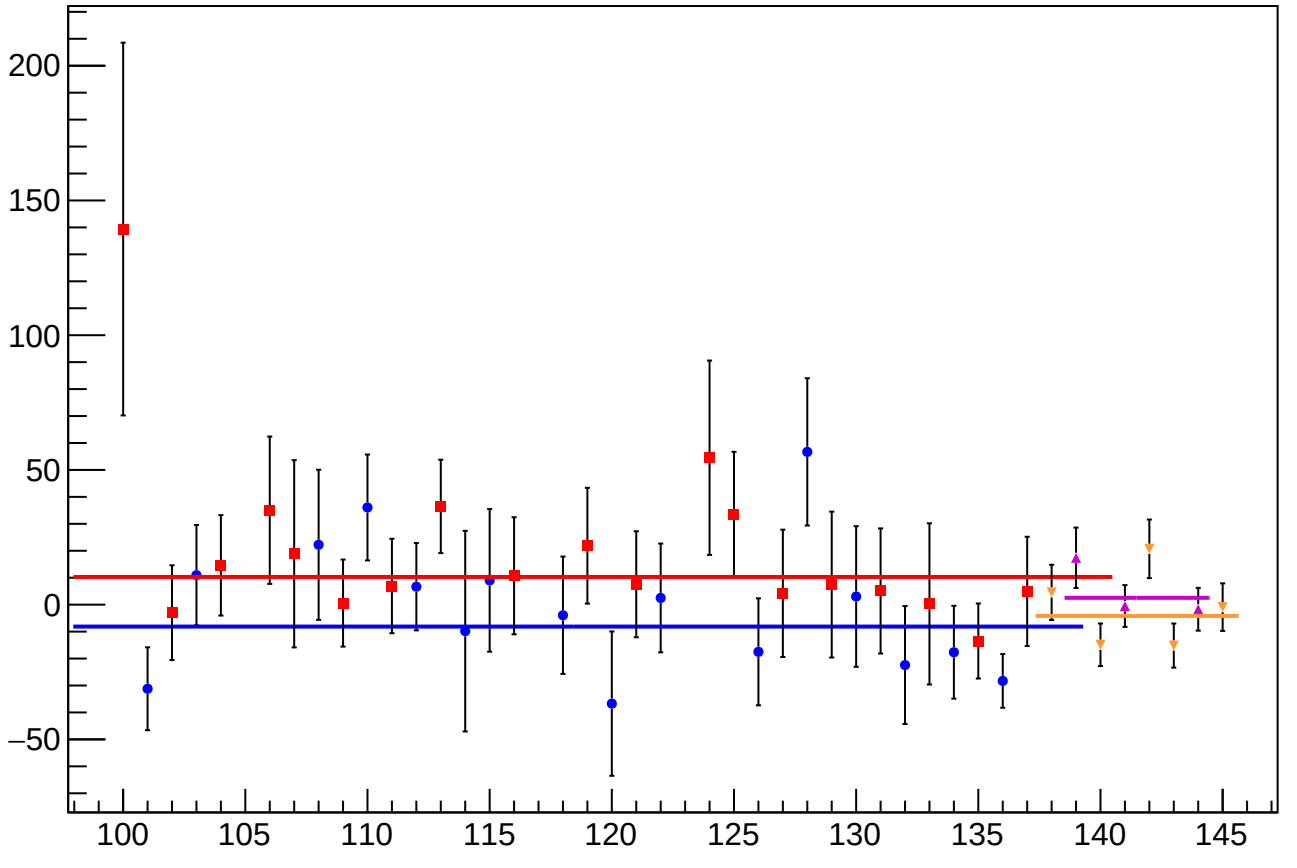
Left: 467.731+/-0.132 $\chi^2$/NDF: 104138.3/7

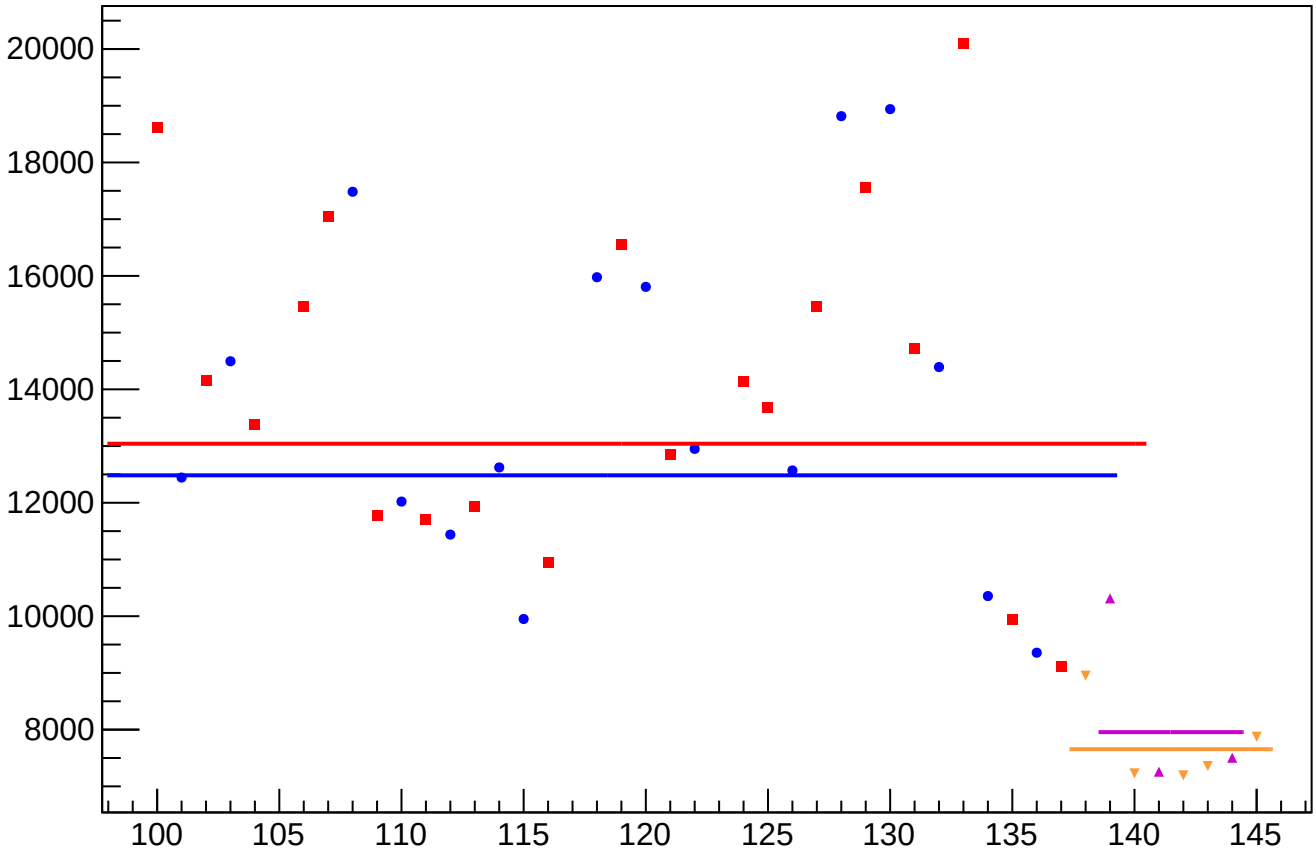
Right: 620.535+/-0.130 $\chi^2$/NDF: 5651022.3/34

In: 552.943+/-0.137 $\chi^2$/NDF:3139398.8/18

Out: 539.257+/-0.126 $\chi^2$/NDF:3288577.8/23

All: 545.525+/-0.093 $\chi^2$/NDF: 6433380.3/42


diff_bpm_4eX_4ecX_avg_mean vs Slug, Sign Corrected
200
150
100
50
0
−50
100
105
110
115
120
125
130
135
140
145
Right In: -8.132+/-4.779 χ²/NDF: 23.1/15
Left Out: -4.179+/-4.025 χ²/NDF:9.7/4
Right Out: 10.288+/-4.873 χ²/NDF: 13.7/18
Left In: 2.543+/-4.972 χ²/NDF:2.2/2
Left: -1.518+/-3.128 χ²/NDF: 13.0/7
Right: 0.898+/-3.412 χ²/NDF: 44.1/34
In: -3.006+/-3.446 χ²/NDF:27.7/18
Out: 1.687+/-3.103 χ²/NDF:28.7/23
All: -0.415+/-2.306 χ²/NDF: 57.4/42




Right In: 12483.955+/-3.379 $\chi^2$/NDF: 671560.0/15

Left Out: 7655.248+/-2.846 $\chi^2$/NDF:45240.4/4

Right Out: 13041.241+/-3.446 $\chi^2$/NDF: 544486.8/18

Left In: 7955.865+/-3.516 $\chi^2$/NDF:111074.0/2

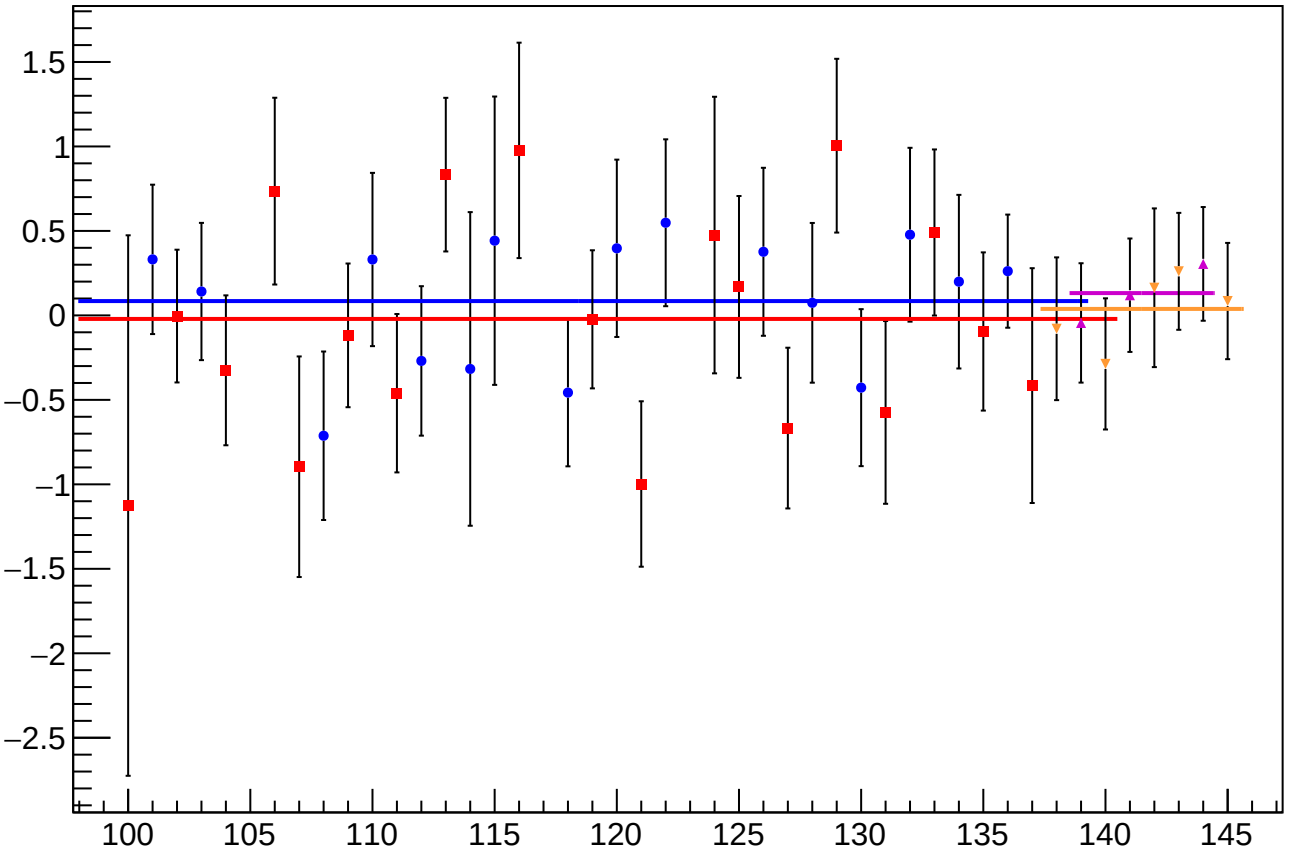
Left: 7774.244+/-2.212 $\chi^2$/NDF: 160730.8/7

Right: 12757.154+/-2.413 $\chi^2$/NDF: 1229378.8/34

In: 10309.651+/-2.436 $\chi^2$/NDF:1644769.2/18

Out: 9839.273+/-2.194 $\chi^2$/NDF:2042004.8/23

All: 10049.942+/-1.631 $\chi^2$/NDF: 3707352.8/4




Right In: 0.085+/-0.120 $\chi^2$/NDF: 9.4/15

Left Out: 0.038+/-0.173 $\chi^2$/NDF:1.3/4

Right Out: -0.021+/-0.117 $\chi^2$/NDF: 24.3/18

Left In: 0.132+/-0.197 $\chi^2$/NDF:0.5/2

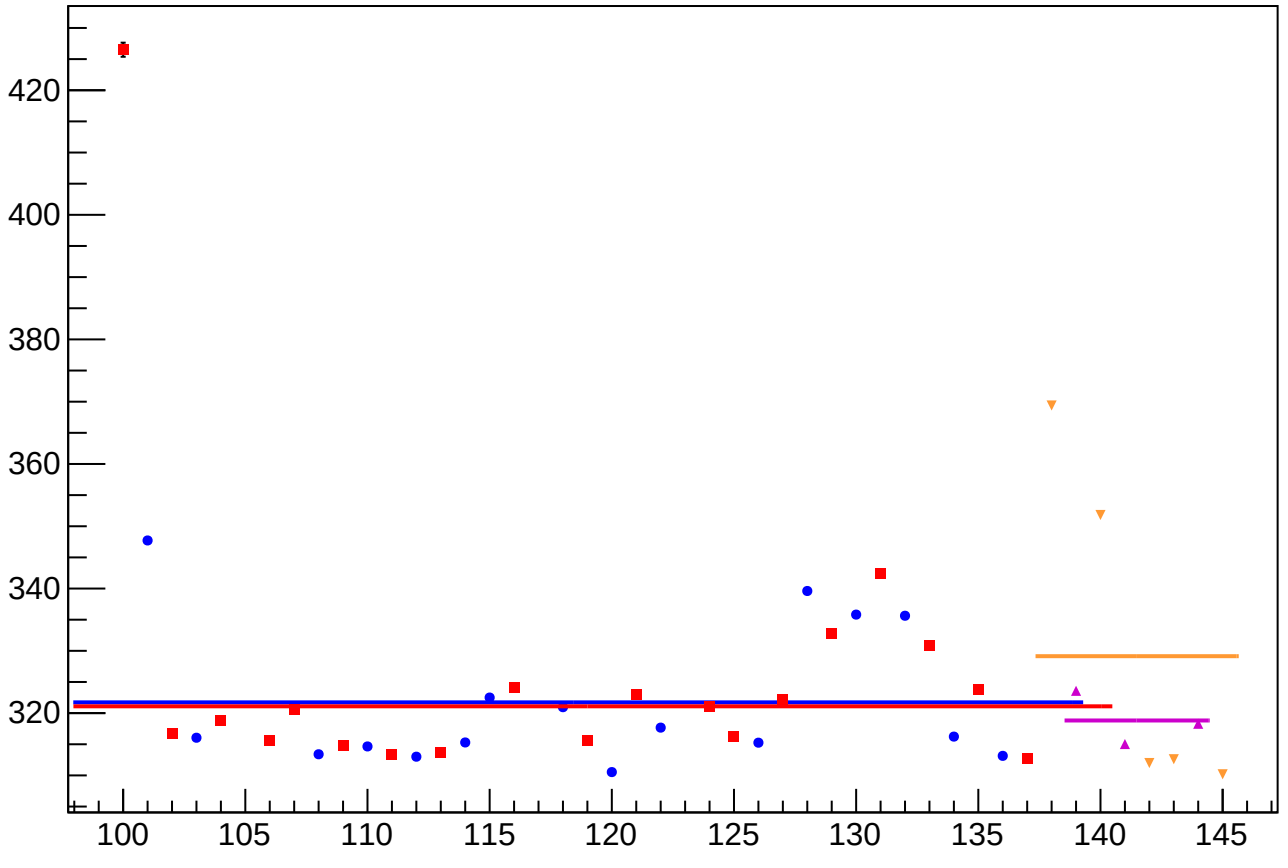
Left: 0.079+/-0.130 $\chi^2$/NDF: 1.9/7

Right: 0.031+/-0.084 $\chi^2$/NDF: 34.1/34

In: 0.098+/-0.103 $\chi^2$/NDF:9.9/18

Out: -0.002+/-0.097 $\chi^2$/NDF:25.7/23

All: 0.045+/-0.071 $\chi^2$/NDF: 36.1/42




Right In: 321.727+/-0.085 $\chi^2$/NDF: 18214.6/15

Left Out: 329.140+/-0.122 $\chi^2$/NDF:38282.7/4

Right Out: 321.093+/-0.083 $\chi^2$/NDF: 16579.3/18

Left In: 318.818+/-0.139 $\chi^2$/NDF:622.3/2

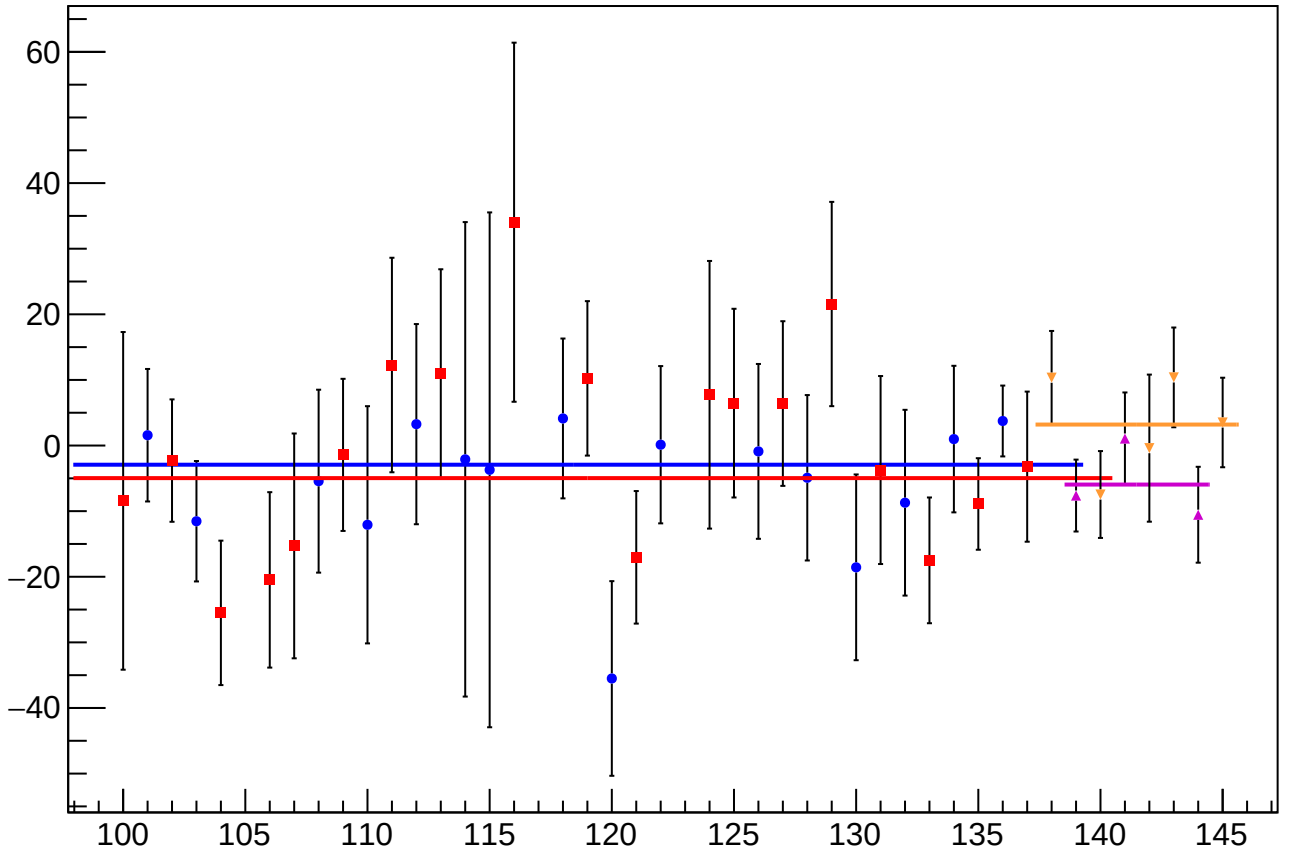
Left: 324.662+/-0.092 $\chi^2$/NDF: 42007.4/7

Right: 321.403+/-0.059 $\chi^2$/NDF: 34822.5/34

In: 320.940+/-0.073 $\chi^2$/NDF:19154.4/18

Out: 323.641+/-0.069 $\chi^2$/NDF:57832.6/23

All: 322.364+/-0.050 $\chi^2$/NDF: 77718.0/42




Right In: -2.922+/-2.910 $\chi^2$/NDF: 9.8/15

Left Out: 3.199+/-3.347 $\chi^2$/NDF:4.6/4

Right Out: -4.965+/-2.824 $\chi^2$/NDF: 19.4/18

Left In: -5.948+/-3.719 $\chi^2$/NDF:1.5/2

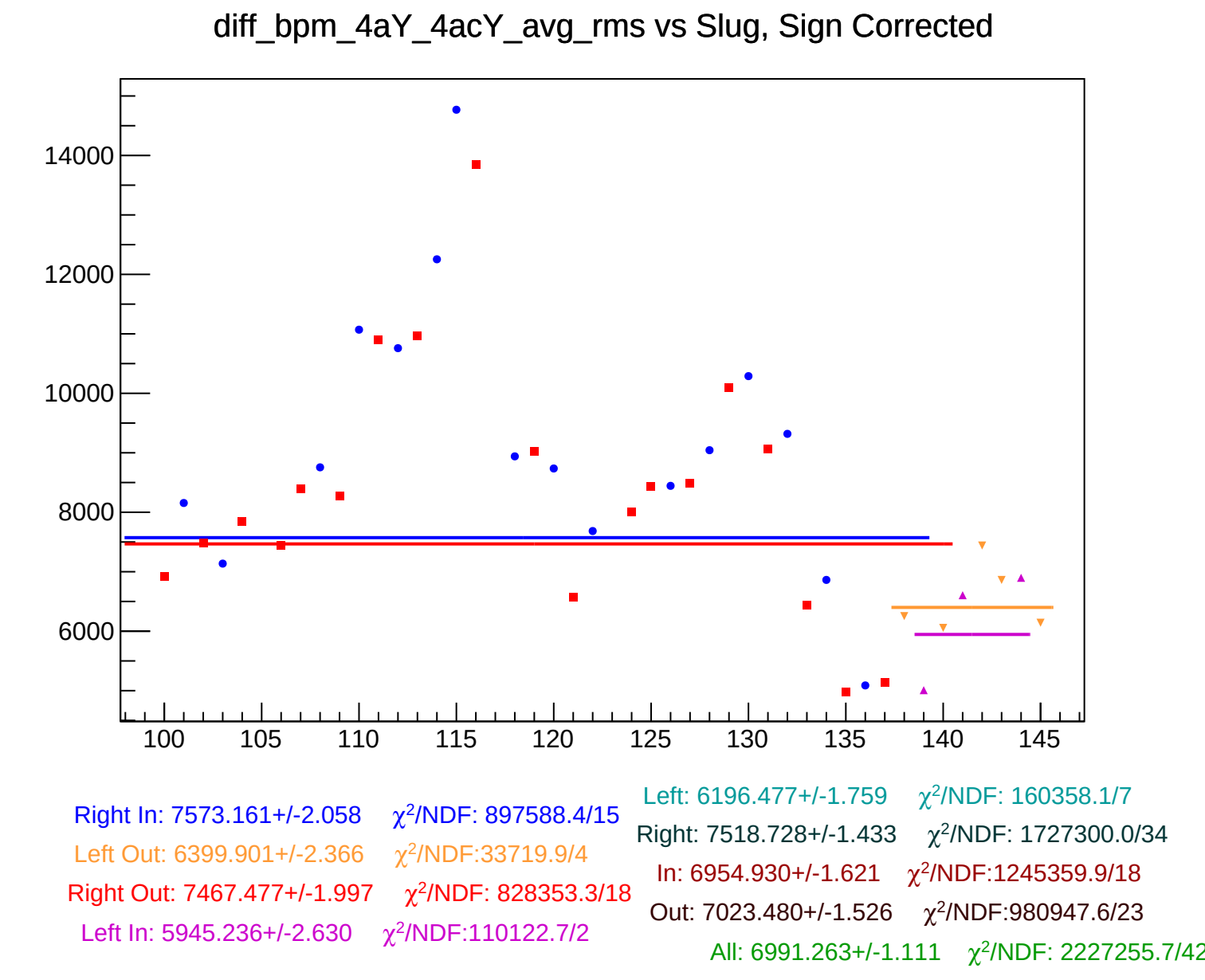
Left: -0.893+/-2.488 $\chi^2$/NDF: 9.4/7

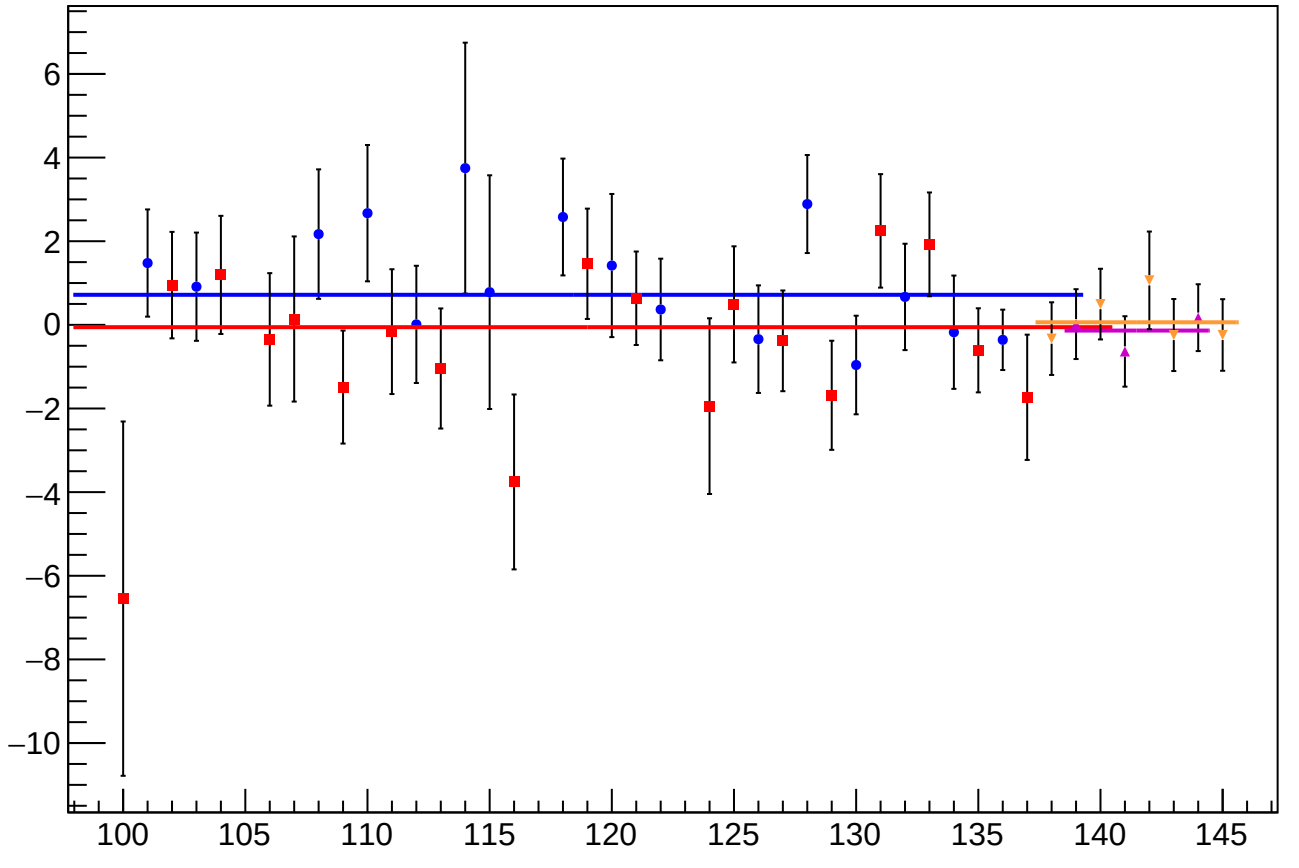
Right: -3.974+/-2.027 $\chi^2$/NDF: 29.5/34

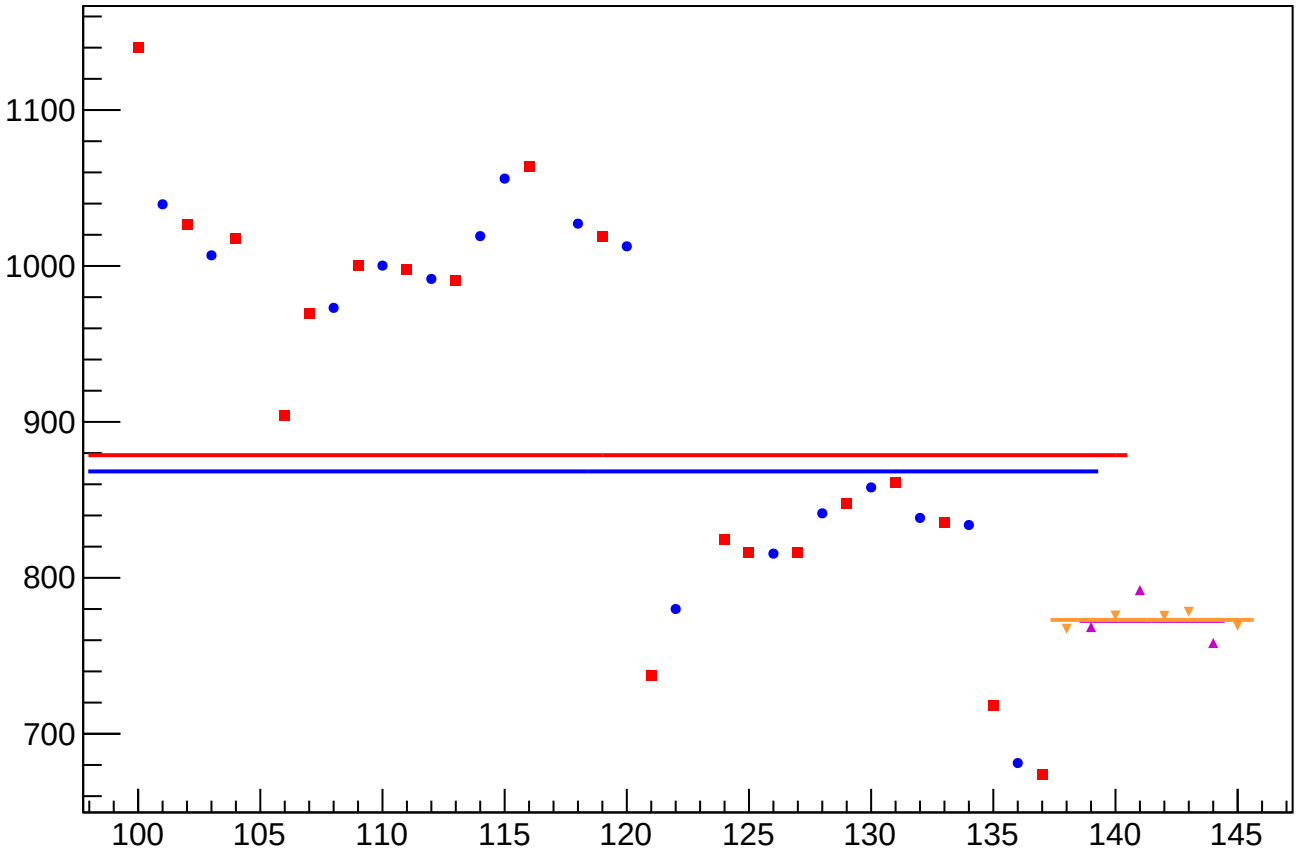
In: -4.071+/-2.292 $\chi^2$/NDF:11.7/18

Out: -1.570+/-2.158 $\chi^2$/NDF:27.5/23

All: -2.745+/-1.571 $\chi^2$/NDF: 39.9/42


diff_bpm_4aY_4acY_avg_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
100
105
110
115
120
125
130
135
140
145
Right In: 7573.161+/-2.058 χ²/NDF: 897588.4/15
Left Out: 6399.901+/-2.366 χ²/NDF:33719.9/4
Right Out: 7467.477+/-1.997 χ²/NDF: 828353.3/18
Left In: 5945.236+/-2.630 χ²/NDF:110122.7/2
Left: 6196.477+/-1.759 χ²/NDF: 160358.1/7
Right: 7518.728+/-1.433 χ²/NDF: 1727300.0/34
In: 6954.930+/-1.621 χ²/NDF:1245359.9/18
Out: 7023.480+/-1.526 χ²/NDF:980947.6/23
All: 6991.263+/-1.111 χ²/NDF: 2227255.7/42


diff_bpm_4aY_4acY_dd_mean vs Slug, Sign Corrected
6
4
2
0
−2
−4
−6
−8
−10
100
105
110
115
120
125
130
135
140
145
Right In: 0.719+/-0.326 χ²/NDF: 14.8/15
Left Out: 0.062+/-0.403 χ²/NDF:1.5/4
Right Out: -0.056+/-0.323 χ²/NDF: 19.8/18
Left In: -0.136+/-0.476 χ²/NDF:0.5/2
Left: -0.021+/-0.307 χ²/NDF: 2.1/7
Right: 0.329+/-0.230 χ²/NDF: 37.4/34
In: 0.446+/-0.269 χ²/NDF:17.5/18
Out: -0.010+/-0.252 χ²/NDF:21.3/23
All: 0.203+/-0.184 χ²/NDF: 40.4/42




Right In: 868.253+/-0.230 $\chi^2$/NDF: 302409.6/15

Left Out: 773.048+/-0.285 $\chi^2$/NDF:228.9/4

Right Out: 878.658+/-0.229 $\chi^2$/NDF: 272530.7/18

Left In: 772.412+/-0.337 $\chi^2$/NDF:1779.2/2

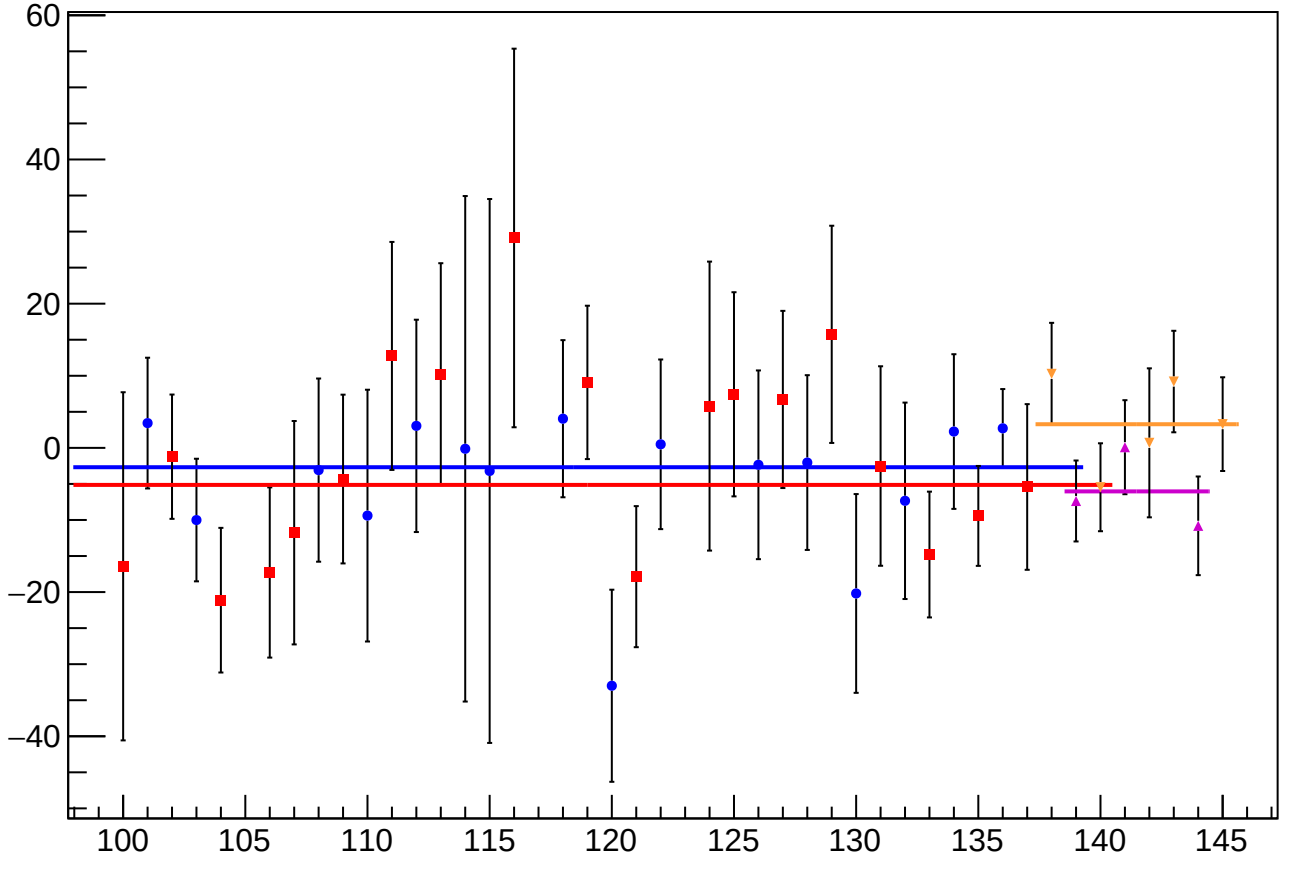
Left: 772.783+/-0.217 $\chi^2$/NDF: 2010.1/7

Right: 873.496+/-0.162 $\chi^2$/NDF: 575967.6/34

In: 837.677+/-0.190 $\chi^2$/NDF:359361.1/18

Out: 837.236+/-0.178 $\chi^2$/NDF:356433.9/23

All: 837.442+/-0.130 $\chi^2$/NDF: 715797.9/42




Right In: -2.683+/-2.788 $\chi^2$/NDF: 10.1/15

Left Out: 3.280+/-3.161 $\chi^2$/NDF:3.8/4

Right Out: -5.136+/-2.692 $\chi^2$/NDF: 17.3/18

Left In: -6.036+/-3.613 $\chi^2$/NDF:1.4/2

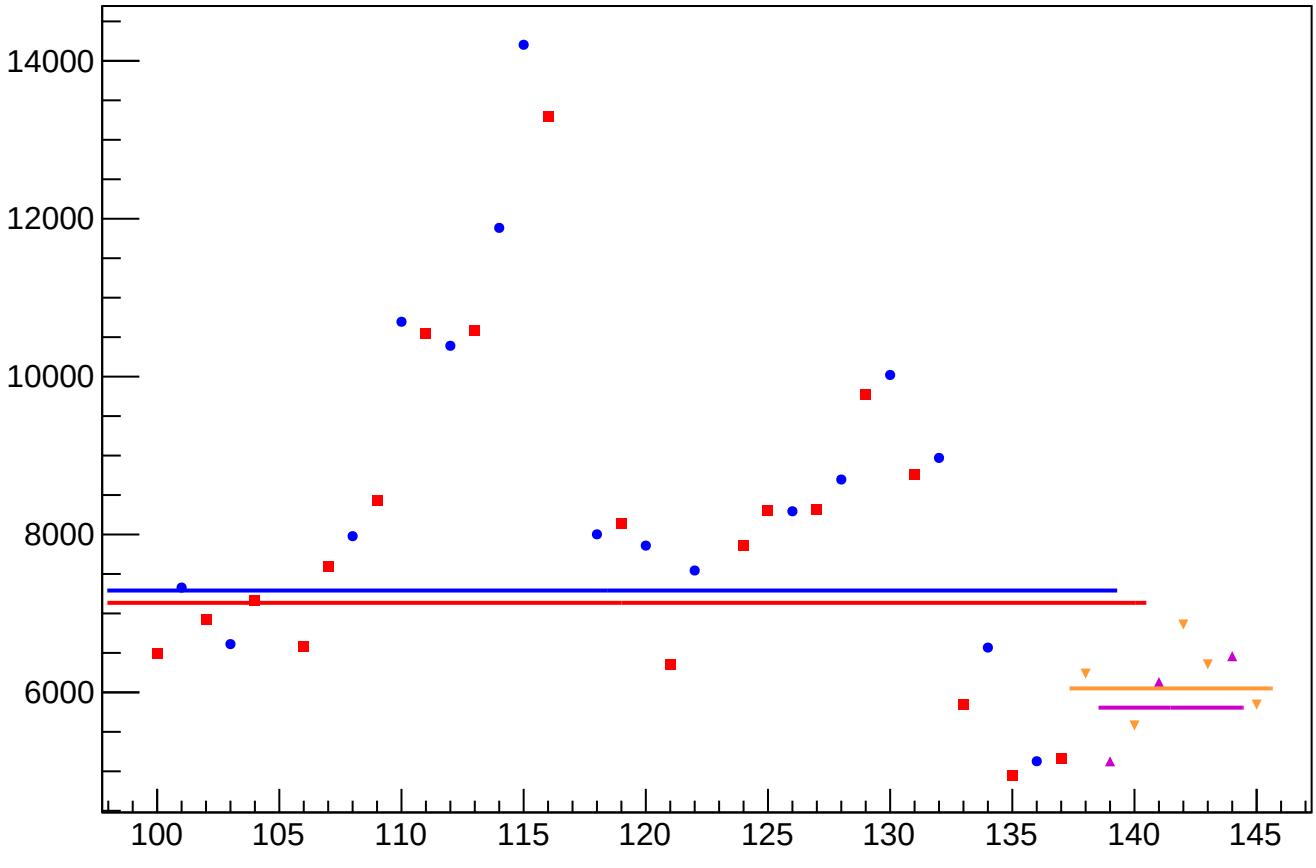
Left: -0.760+/-2.379 $\chi^2$/NDF: 9.0/7

Right: -3.953+/-1.937 $\chi^2$/NDF: 27.7/34

In: -3.935+/-2.207 $\chi^2$/NDF:12.0/18

Out: -1.599+/-2.049 $\chi^2$/NDF:25.2/23

All: -2.680+/-1.502 $\chi^2$/NDF: 37.8/42




Right In: 7290.246+/-1.972 $\chi^2$/NDF: 770518.2/15

Left Out: 6050.285+/-2.235 $\chi^2$/NDF:31239.7/4

Right Out: 7134.411+/-1.903 $\chi^2$/NDF: 792788.1/18

Left In: 5806.534+/-2.555 $\chi^2$/NDF:52433.8/2

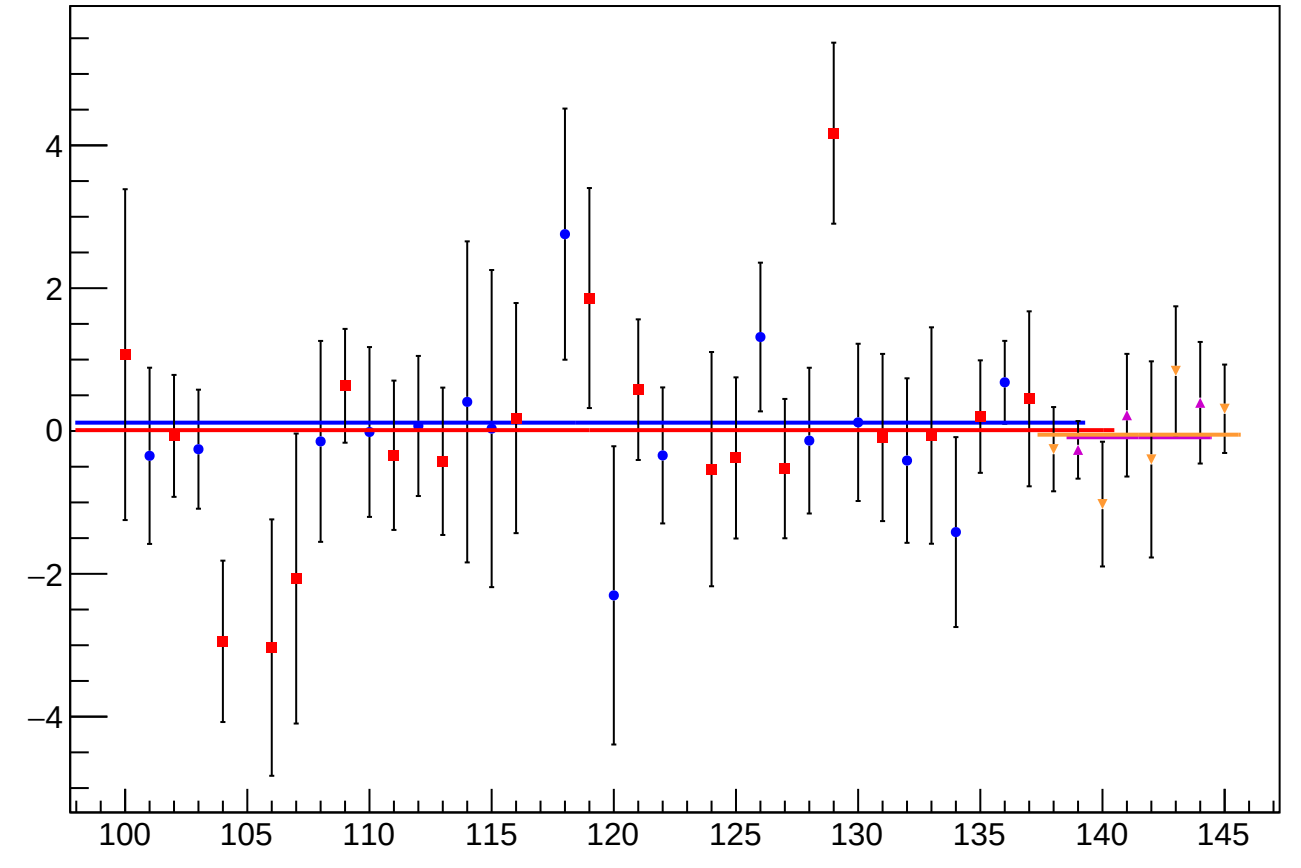
Left: 5944.594+/-1.682 $\chi^2$/NDF: 88829.9/7

Right: 7209.592+/-1.369 $\chi^2$/NDF: 1566539.8/34

In: 6736.415+/-1.561 $\chi^2$/NDF:1034356.1/18

Out: 6678.692+/-1.449 $\chi^2$/NDF:960386.6/23

All: 6705.416+/-1.062 $\chi^2$/NDF: 1995477.2/42




Right In: 0.117+/-0.273 $\chi^2$/NDF: 8.1/15

Left Out: -0.051+/-0.342 $\chi^2$/NDF:2.7/4

Right Out: 0.012+/-0.263 $\chi^2$/NDF: 25.2/18

Left In: -0.088+/-0.335 $\chi^2$/NDF:0.6/2

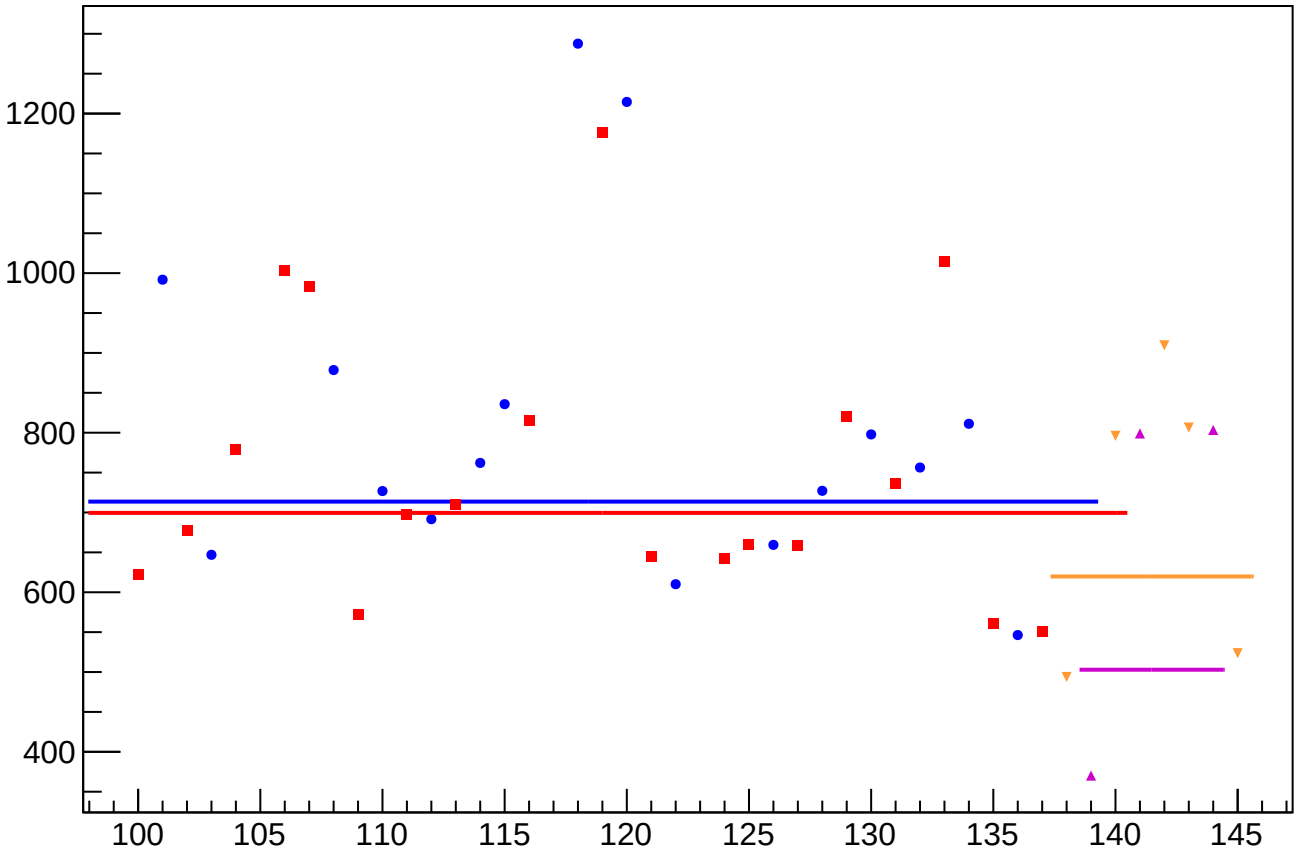
Left: -0.070+/-0.240 $\chi^2$/NDF: 3.4/7

Right: 0.063+/-0.190 $\chi^2$/NDF: 33.4/34

In: 0.035+/-0.212 $\chi^2$/NDF:9.0/18

Out: -0.012+/-0.209 $\chi^2$/NDF:27.9/23

All: 0.012+/-0.149 $\chi^2$/NDF: 36.9/42




Right In: 713.627+/-0.193 $\chi^2$/NDF: 699303.9/15

Left Out: 619.777+/-0.242 $\chi^2$/NDF:395196.2/4

Right Out: 699.502+/-0.186 $\chi^2$/NDF: 575759.9/18

Left In: 502.914+/-0.237 $\chi^2$/NDF:703366.8/2

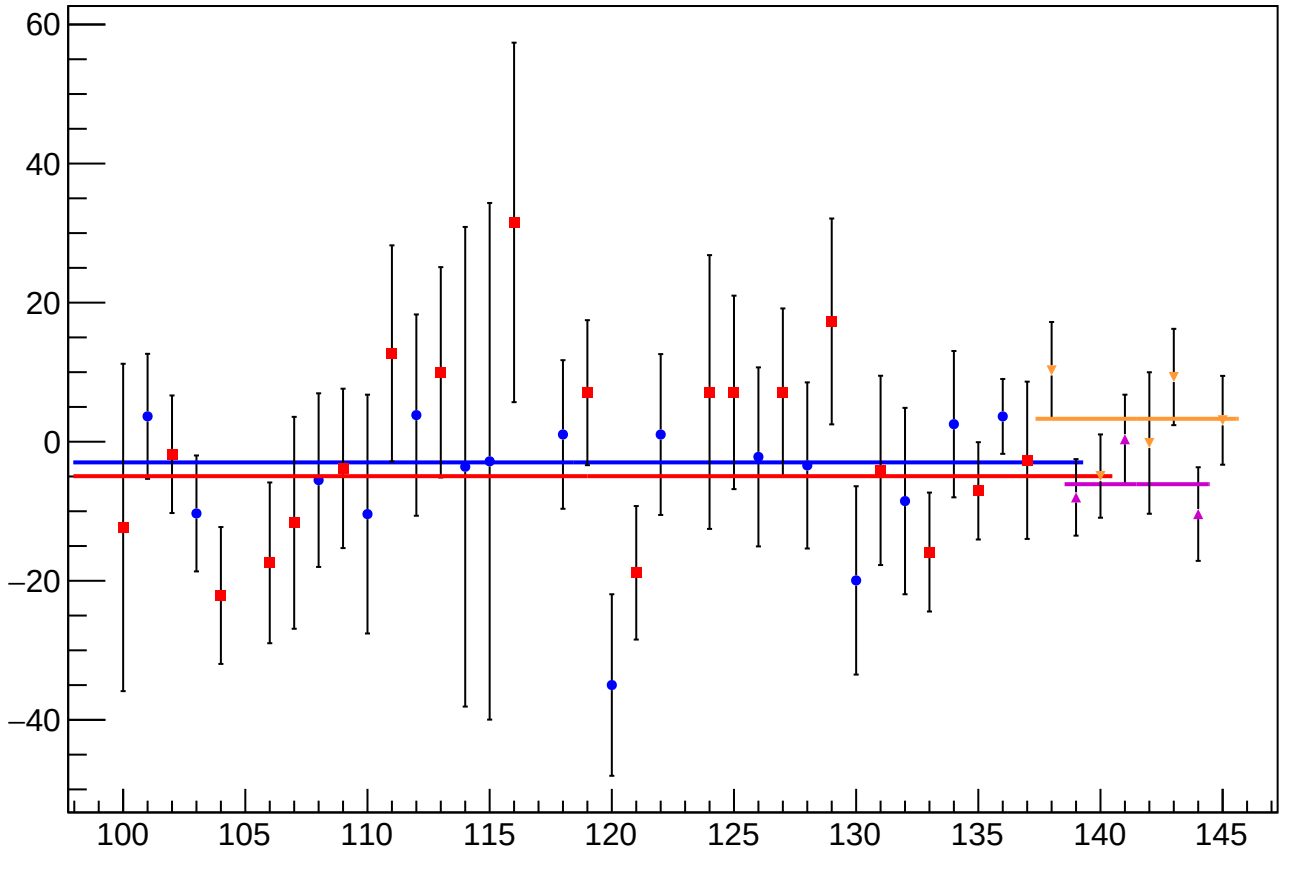
Left: 560.217+/-0.169 $\chi^2$/NDF: 1217552.9/7

Right: 706.303+/-0.134 $\chi^2$/NDF: 1277836.8/34

In: 629.627+/-0.150 $\chi^2$/NDF:1877090.6/18

Out: 669.851+/-0.147 $\chi^2$/NDF:1039203.4/23

All: 650.048+/-0.105 $\chi^2$/NDF: 2952906.7/42




Right In: -2.974+/-2.746 $\chi^2$/NDF: 11.6/15

Left Out: 3.297+/-3.108 $\chi^2$/NDF:3.8/4

Right Out: -4.955+/-2.653 $\chi^2$/NDF: 18.5/18

Left In: -6.109+/-3.548 $\chi^2$/NDF:1.5/2

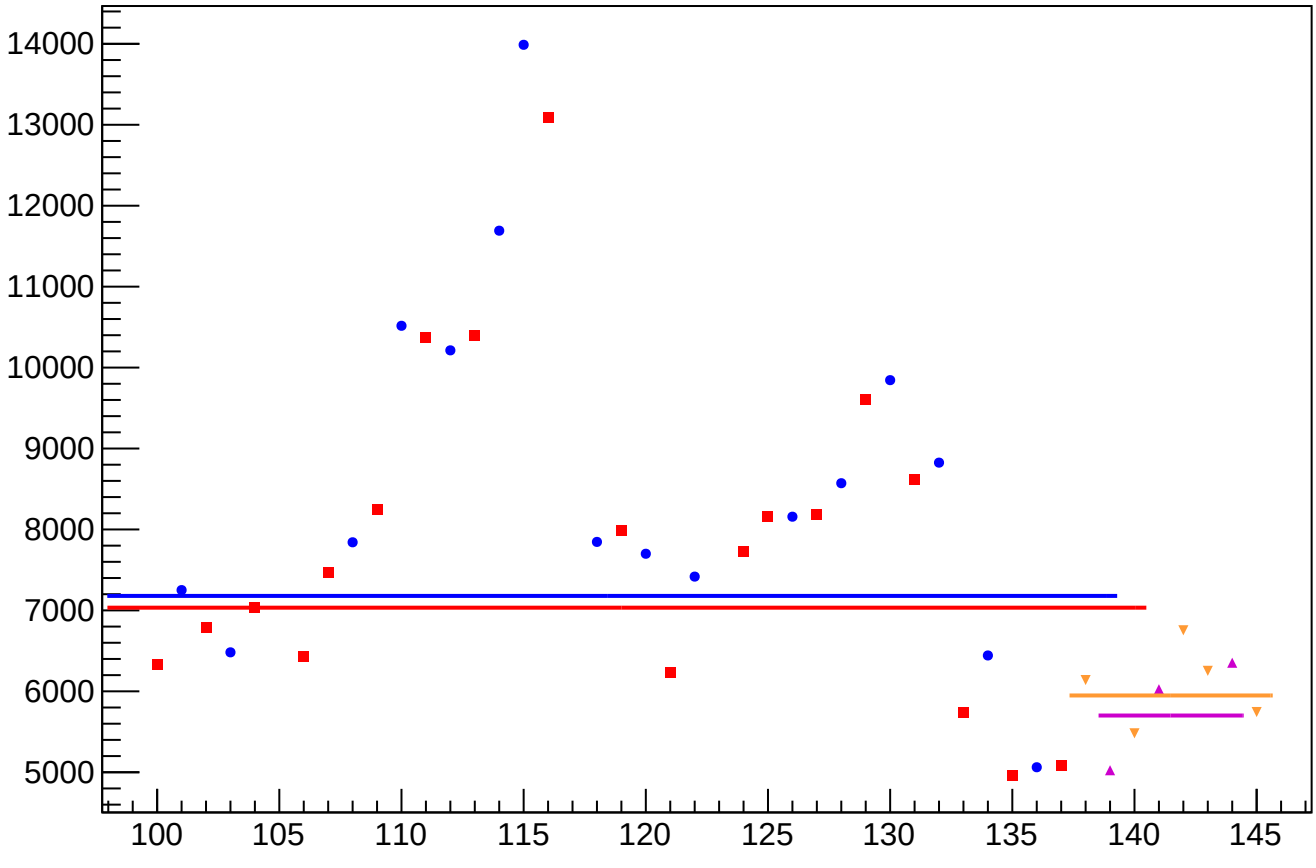
Left: -0.787+/-2.338 $\chi^2$/NDF: 9.3/7

Right: -3.999+/-1.908 $\chi^2$/NDF: 30.3/34

In: -4.148+/-2.172 $\chi^2$/NDF:13.6/18

Out: -1.477+/-2.018 $\chi^2$/NDF:26.3/23

All: -2.715+/-1.478 $\chi^2$/NDF: 40.7/42




Right In: 7178.925+/-1.942 $\chi^2$/NDF: 761936.2/15

Left Out: 5948.792+/-2.198 $\chi^2$/NDF:32128.9/4

Right Out: 7033.538+/-1.876 $\chi^2$/NDF: 766389.2/18

Left In: 5701.030+/-2.509 $\chi^2$/NDF:54088.6/2

Left: 5841.215+/-1.653 $\chi^2$/NDF: 91734.8/7

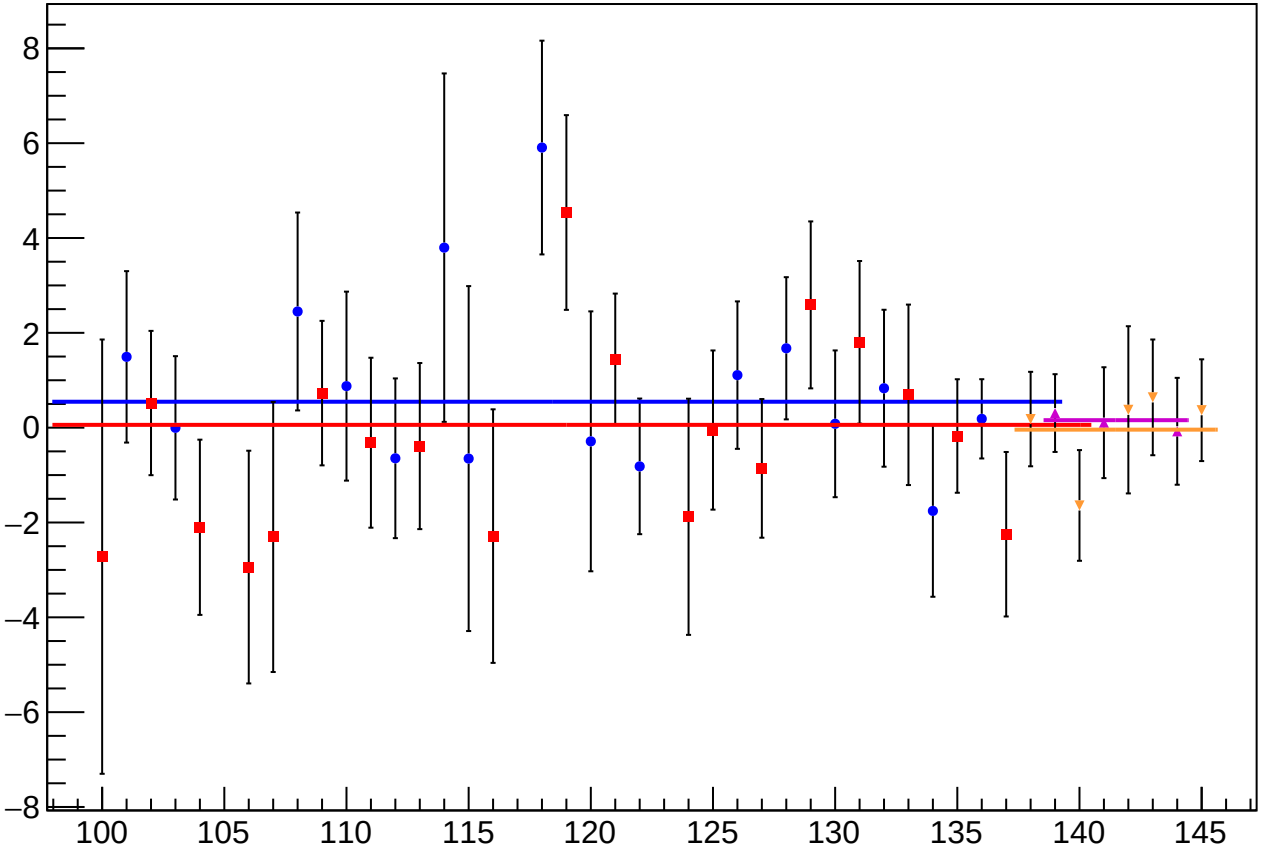
Right: 7103.732+/-1.349 $\chi^2$/NDF: 1531224.9/34

In: 6625.329+/-1.536 $\chi^2$/NDF:1033019.8/18

Out: 6576.322+/-1.427 $\chi^2$/NDF:939427.9/23

All: 6599.031+/-1.045 $\chi^2$/NDF: 1972994.2/42

# diff_bpm_4aY_4ecY_dd_mean vs Slug, Sign Corrected




Right In: 0.547+/-0.411 $\chi^2$/NDF: 11.9/15

Left Out: -0.042+/-0.527 $\chi^2$/NDF:2.4/4

Right Out: 0.059+/-0.409 $\chi^2$/NDF: 16.9/18

Left In: 0.158+/-0.577 $\chi^2$/NDF:0.1/2

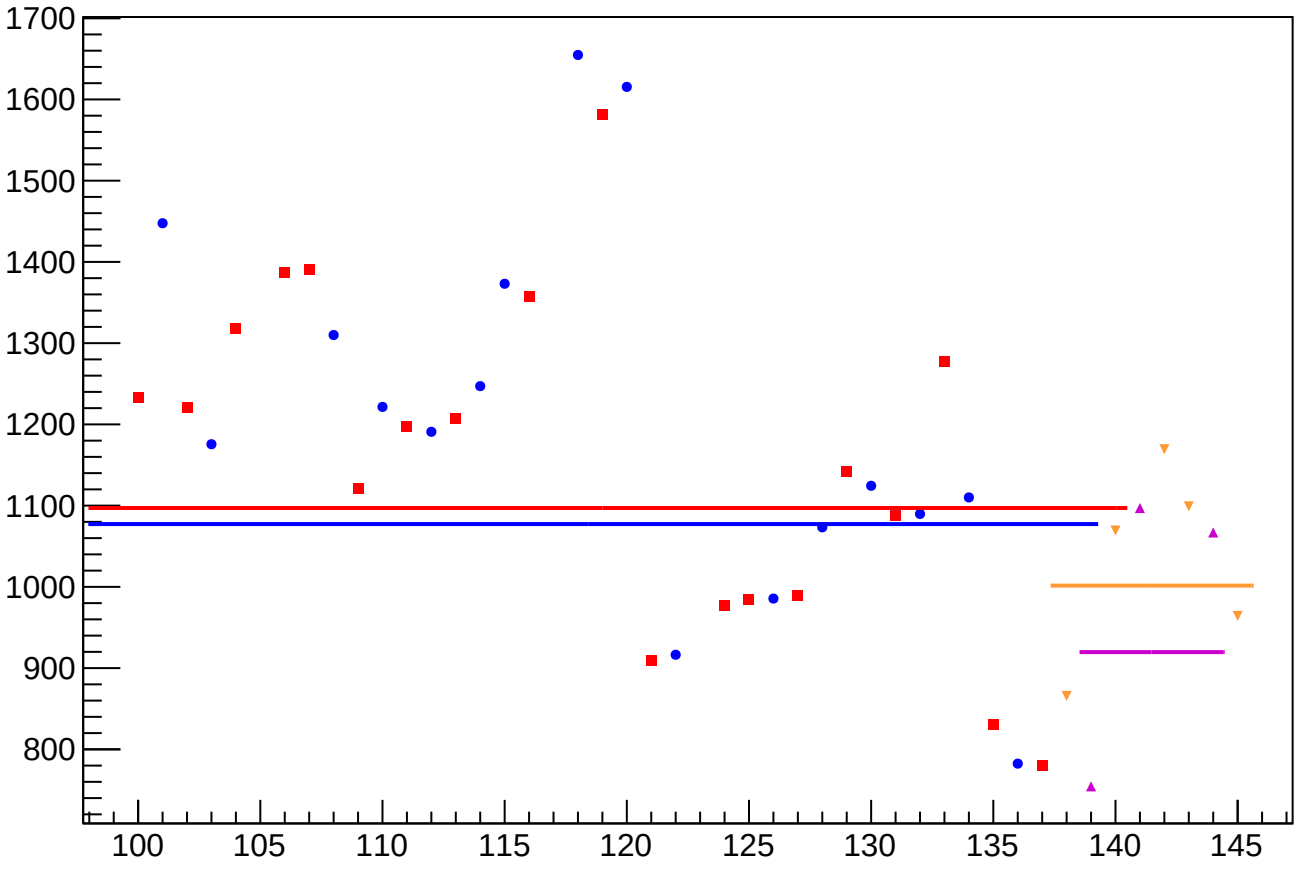
Left: 0.049+/-0.389 $\chi^2$/NDF: 2.6/7

Right: 0.302+/-0.290 $\chi^2$/NDF: 29.5/34

In: 0.416+/-0.335 $\chi^2$/NDF:12.3/18

Out: 0.021+/-0.323 $\chi^2$/NDF:19.3/23

All: 0.212+/-0.232 $\chi^2$/NDF: 32.4/42




Right In: 1077.306+/-0.291 $\chi^2$/NDF: 646521.7/15

Left Out: 1001.557+/-0.373 $\chi^2$/NDF:77199.5/4

Right Out: 1097.108+/-0.289 $\chi^2$/NDF: 484370.7/18

Left In: 919.683+/-0.408 $\chi^2$/NDF:161333.9/2

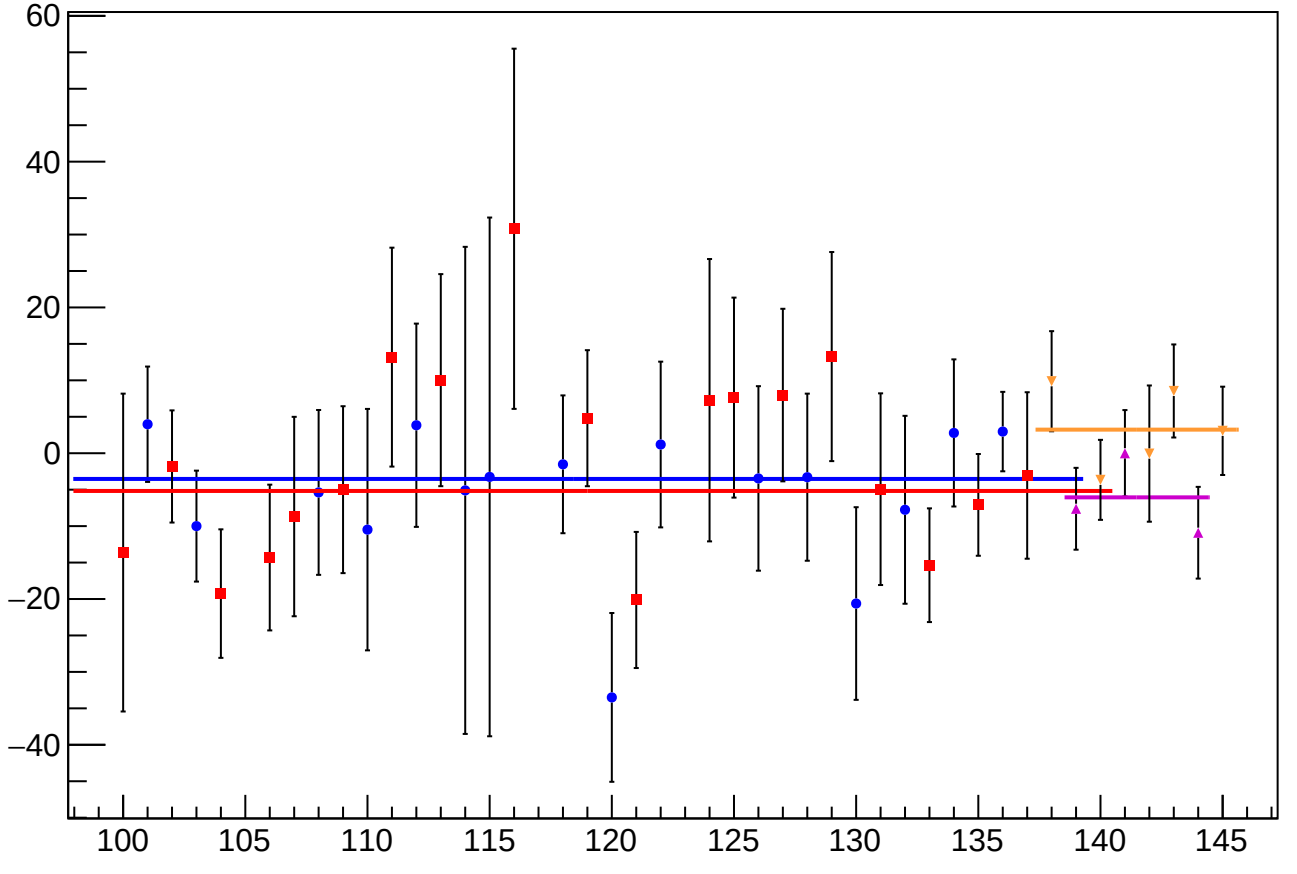
Left: 964.318+/-0.275 $\chi^2$/NDF: 260501.8/7

Right: 1087.256+/-0.205 $\chi^2$/NDF: 1133226.7/34

In: 1024.247+/-0.237 $\chi^2$/NDF:906934.0/18

Out: 1061.194+/-0.228 $\chi^2$/NDF:602629.2/23

All: 1043.375+/-0.164 $\chi^2$/NDF: 1522183.7/42




Right In: -3.527+/-2.608 $\chi^2$/NDF: 12.6/15

Left Out: 3.236+/-2.915 $\chi^2$/NDF:3.3/4

Right Out: -5.176+/-2.508 $\chi^2$/NDF: 18.2/18

Left In: -6.054+/-3.421 $\chi^2$/NDF:1.7/2

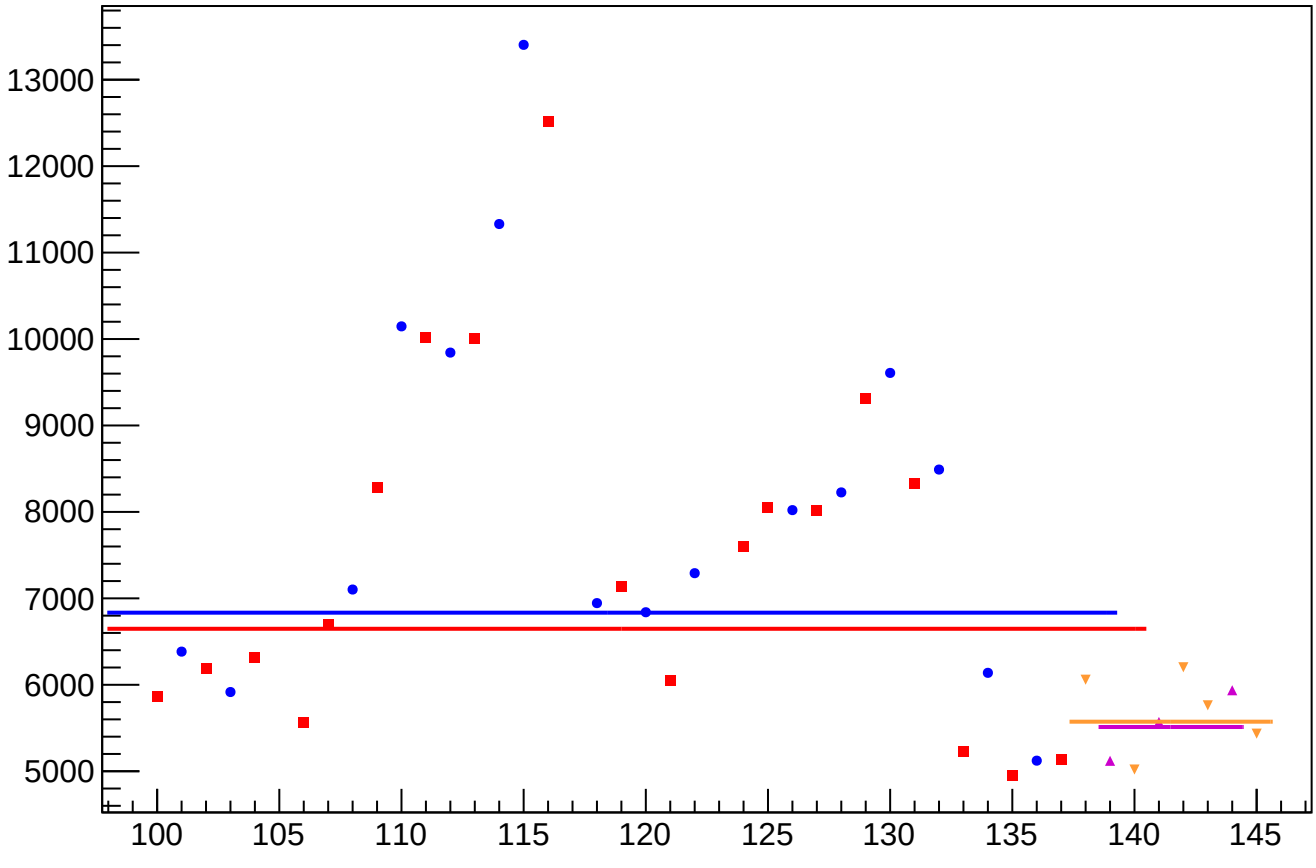
Left: -0.672+/-2.219 $\chi^2$/NDF: 9.3/7

Right: -4.384+/-1.808 $\chi^2$/NDF: 31.0/34

In: -4.456+/-2.074 $\chi^2$/NDF:14.7/18

Out: -1.598+/-1.901 $\chi^2$/NDF:26.3/23

All: -2.903+/-1.402 $\chi^2$/NDF: 42.0/42




Right In: 6834.346+/-1.844 $\chi^2$/NDF: 692722.6/15

Left Out: 5573.218+/-2.062 $\chi^2$/NDF:42213.2/4

Right Out: 6647.996+/-1.773 $\chi^2$/NDF: 785102.6/18

Left In: 5511.755+/-2.419 $\chi^2$/NDF:19013.8/2

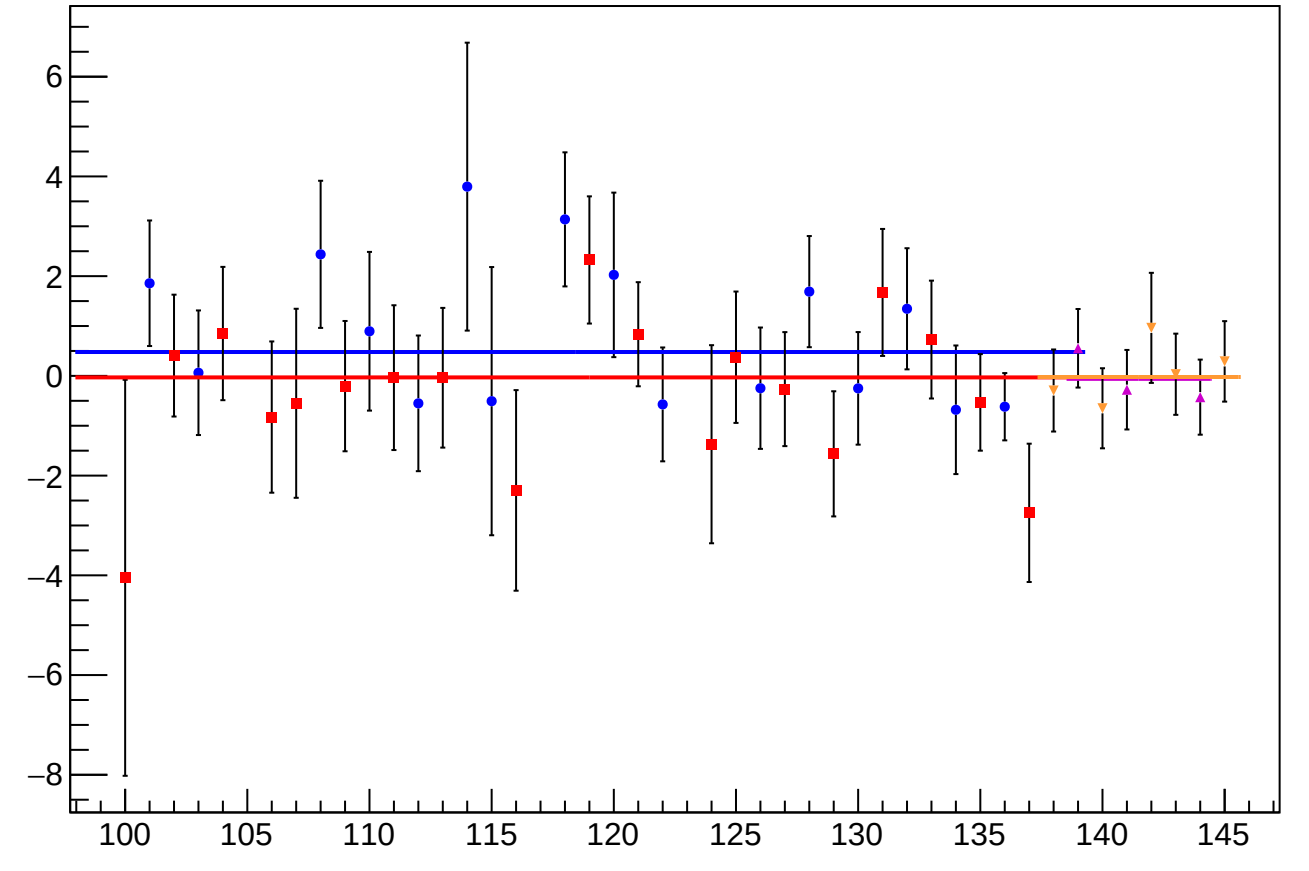
Left: 5547.357+/-1.569 $\chi^2$/NDF: 61601.0/7

Right: 6737.523+/-1.278 $\chi^2$/NDF: 1483130.1/34

In: 6348.146+/-1.467 $\chi^2$/NDF:900798.4/18

Out: 6190.909+/-1.344 $\chi^2$/NDF:983525.7/23

All: 6262.706+/-0.991 $\chi^2$/NDF: 1890570.1/42




Right In: 0.479+/-0.311 $\chi^2$/NDF: 16.7/15

Left Out: -0.022+/-0.381 $\chi^2$/NDF:1.7/4

Right Out: -0.030+/-0.309 $\chi^2$/NDF: 15.7/18

Left In: -0.060+/-0.450 $\chi^2$/NDF:0.9/2

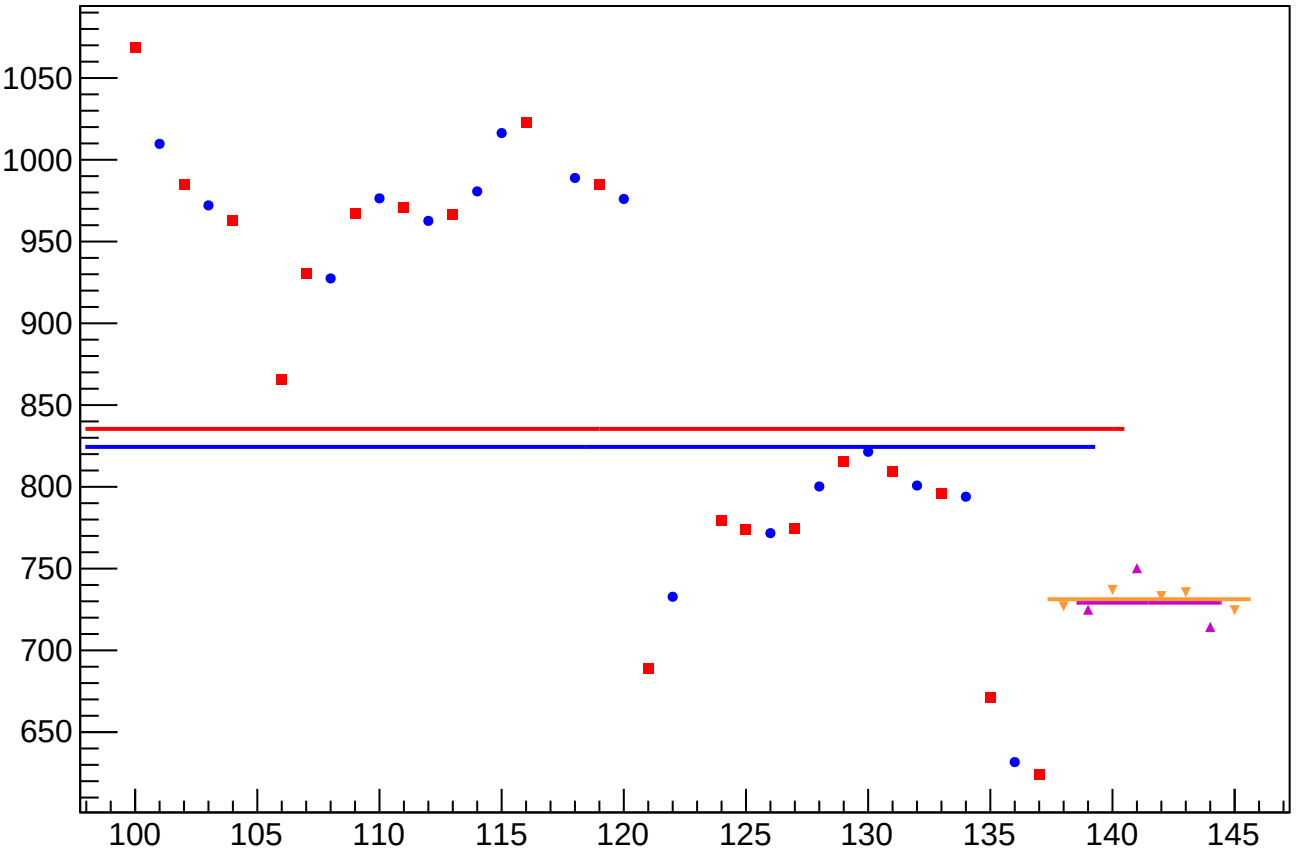
Left: -0.038+/-0.291 $\chi^2$/NDF: 2.6/7

Right: 0.222+/-0.219 $\chi^2$/NDF: 33.8/34

In: 0.305+/-0.256 $\chi^2$/NDF:18.6/18

Out: -0.027+/-0.240 $\chi^2$/NDF:17.4/23

All: 0.128+/-0.175 $\chi^2$/NDF: 36.9/42




Right In: 824.431+/-0.220 $\chi^2$/NDF: 365461.7/15

Left Out: 731.271+/-0.269 $\chi^2$/NDF:357.4/4

Right Out: 835.437+/-0.218 $\chi^2$/NDF: 319302.1/18

Left In: 729.192+/-0.318 $\chi^2$/NDF:2230.2/2

Left: 730.402+/-0.205 $\chi^2$/NDF: 2612.5/7

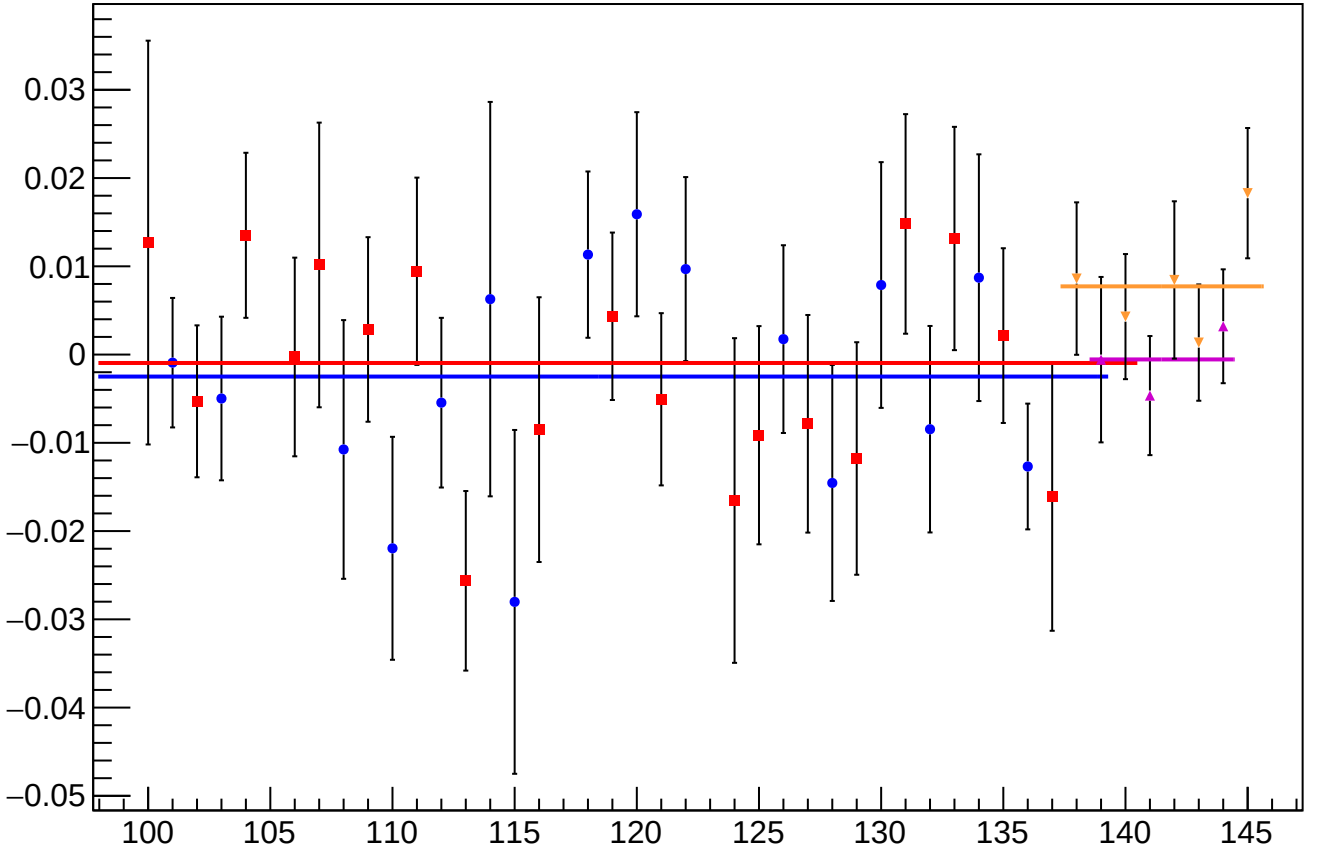
Right: 829.974+/-0.155 $\chi^2$/NDF: 686027.0/34

In: 793.633+/-0.181 $\chi^2$/NDF:428424.3/18

Out: 794.166+/-0.170 $\chi^2$/NDF:409977.1/23

All: 793.916+/-0.124 $\chi^2$/NDF: 838406.1/42

# diff_dispE_bpm12X_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.003 $\chi^2$/NDF: 15.3/15

Left Out: 0.008+/-0.003 $\chi^2$/NDF:3.2/4

Right Out: -0.001+/-0.003 $\chi^2$/NDF: 17.3/18

Left In: -0.001+/-0.004 $\chi^2$/NDF:0.7/2

Left: 0.004+/-0.003 $\chi^2$/NDF: 6.3/7

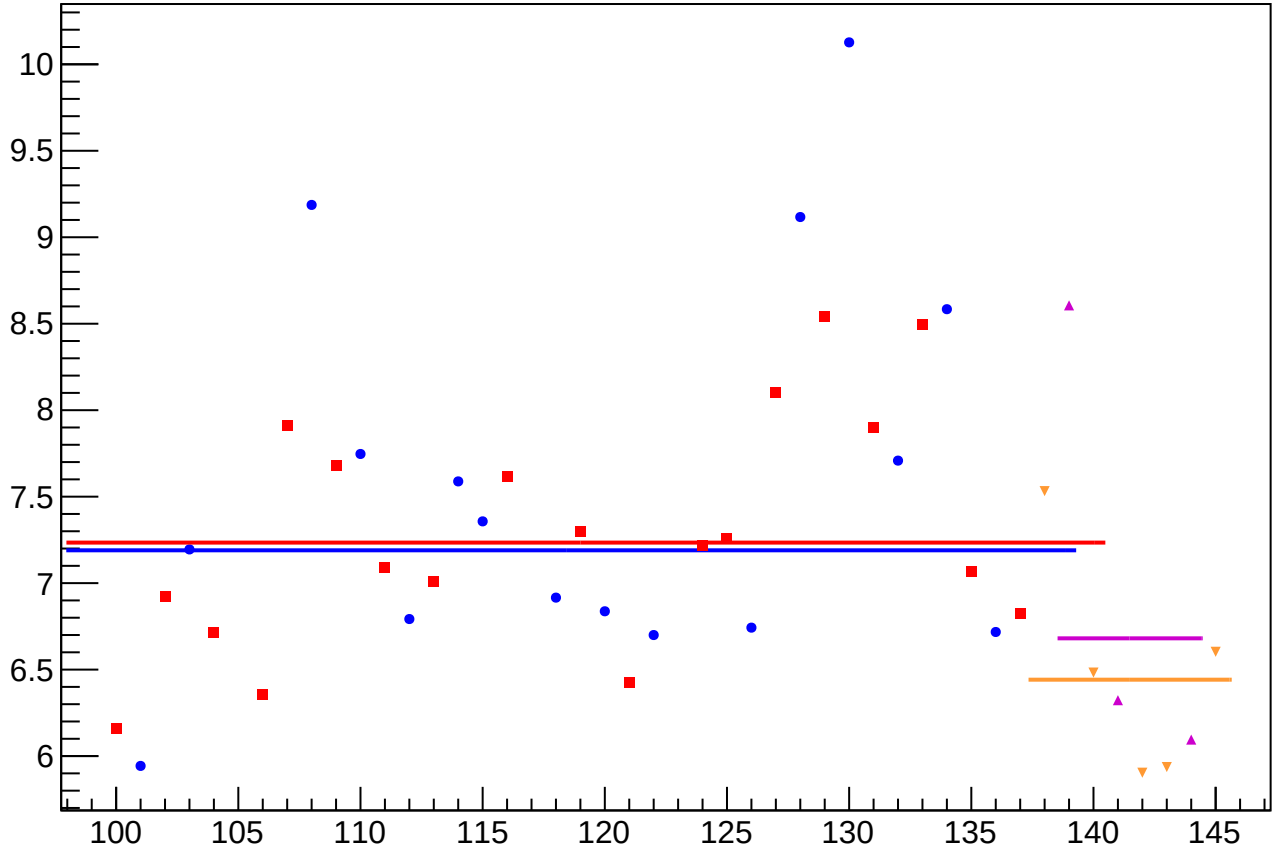
Right: -0.002+/-0.002 $\chi^2$/NDF: 32.8/34

In: -0.002+/-0.002 $\chi^2$/NDF:16.2/18

Out: 0.002+/-0.002 $\chi^2$/NDF:24.6/23

All: 0.000+/-0.002 $\chi^2$/NDF: 42.7/42

# diff_dispE_bpm12X_rms vs Slug, Sign Corrected




Right In: 7.190+/-0.002 $\chi^2$/NDF: 277639.9/15

Left Out: 6.442+/-0.002 $\chi^2$/NDF:51916.4/4

Right Out: 7.234+/-0.002 $\chi^2$/NDF: 106266.0/18

Left In: 6.681+/-0.003 $\chi^2$/NDF:106498.0/2

Left: 6.537+/-0.002 $\chi^2$/NDF: 162371.2/7

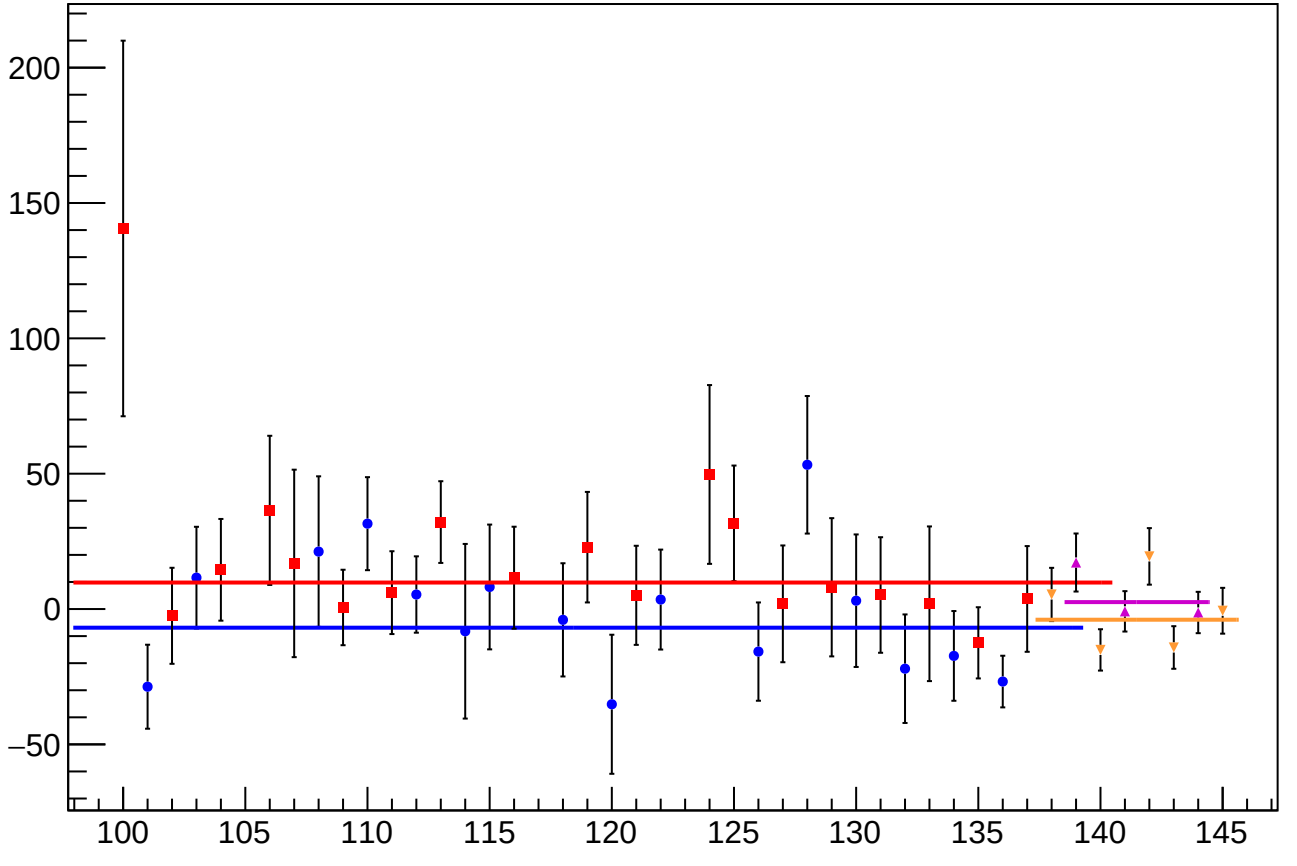
Right: 7.213+/-0.001 $\chi^2$/NDF: 384182.4/34

In: 7.039+/-0.002 $\chi^2$/NDF:405057.9/18

Out: 6.932+/-0.001 $\chi^2$/NDF:226000.4/23

All: 6.981+/-0.001 $\chi^2$/NDF: 633459.2/42

# diff_targ_positionX_mean vs Slug, Sign Corrected




Right In: -6.891+/-4.488 $\chi^2$/NDF: 23.0/15

Left Out: -3.946+/-3.870 $\chi^2$/NDF:9.9/4

Right Out: 9.790+/-4.517 $\chi^2$/NDF: 14.0/18

Left In: 2.563+/-4.778 $\chi^2$/NDF:2.3/2

Left: -1.367+/-3.007 $\chi^2$/NDF: 13.3/7

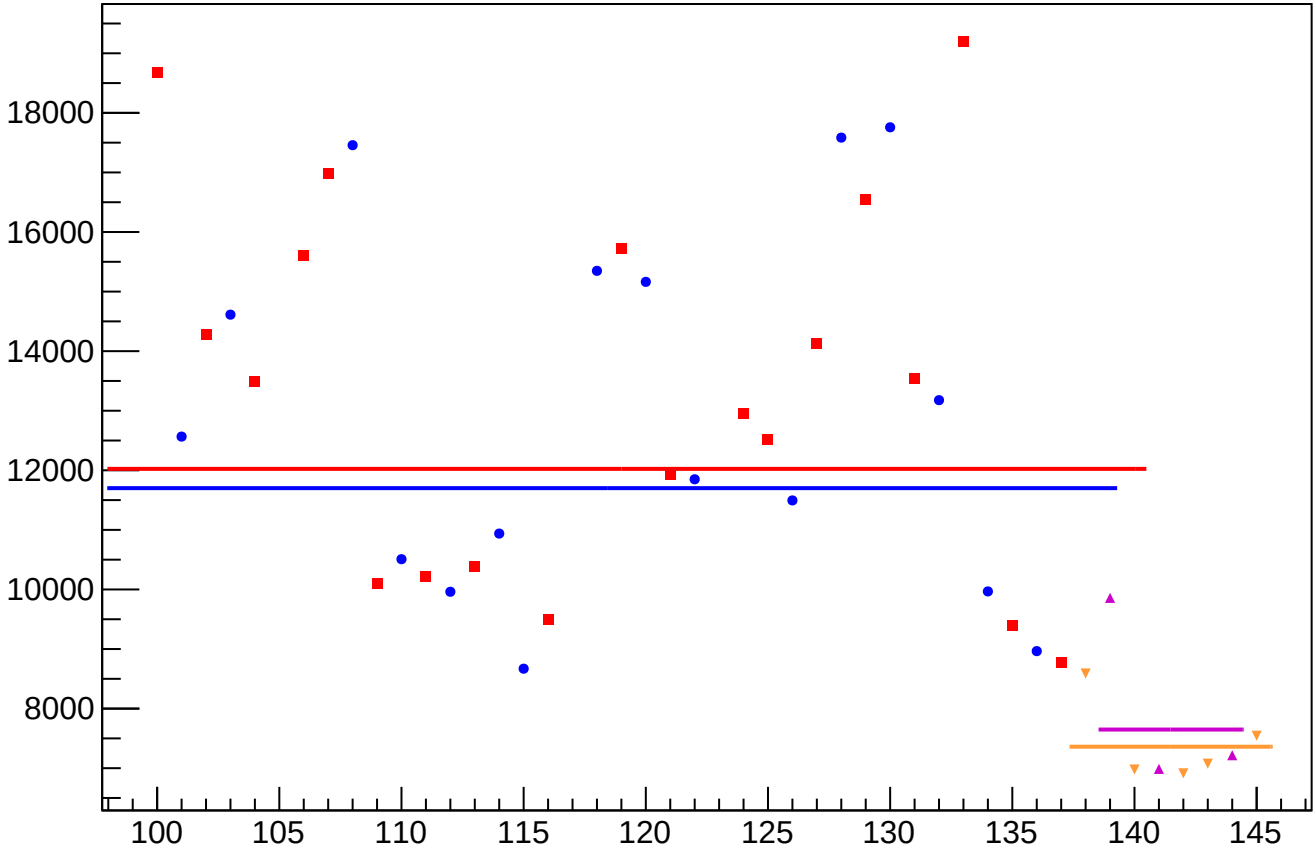
Right: 1.396+/-3.184 $\chi^2$/NDF: 43.9/34

In: -2.459+/-3.271 $\chi^2$/NDF:27.4/18

Out: 1.868+/-2.939 $\chi^2$/NDF:29.2/23

All: -0.065+/-2.186 $\chi^2$/NDF: 57.6/42

# diff_targ_positionX_rms vs Slug, Sign Corrected




Right In: 11700.622+/-3.174 $\chi^2$/NDF: 740185.3/15

Left Out: 7360.442+/-2.736 $\chi^2$/NDF:43490.2/4

Right Out: 12024.262+/-3.194 $\chi^2$/NDF: 684788.9/18

Left In: 7648.409+/-3.379 $\chi^2$/NDF:107058.6/2

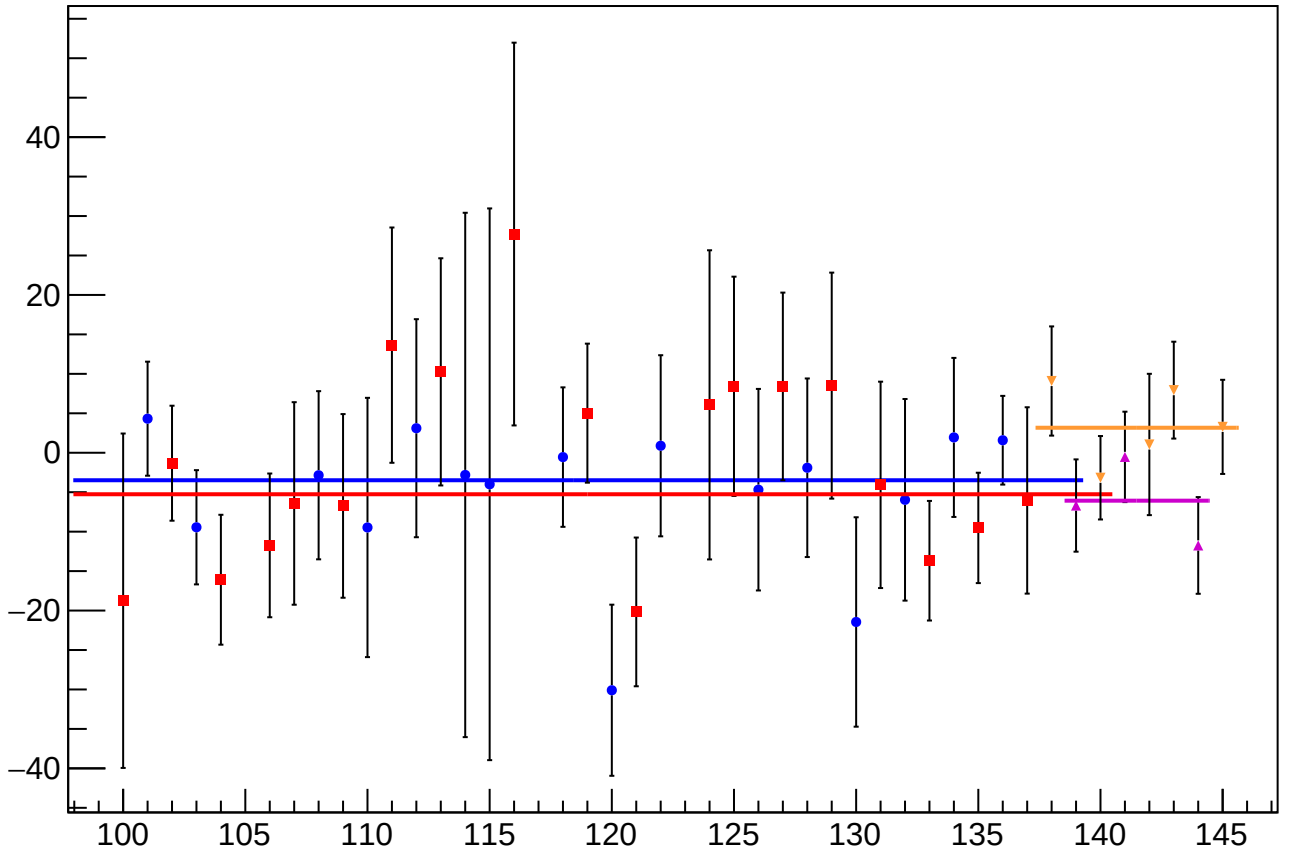
Left: 7474.508+/-2.126 $\chi^2$/NDF: 154935.5/7

Right: 11861.399+/-2.251 $\chi^2$/NDF: 1430140.0/34

In: 9801.139+/-2.313 $\chi^2$/NDF:1611406.1/18

Out: 9334.400+/-2.078 $\chi^2$/NDF:1957788.5/23

All: 9542.850+/-1.546 $\chi^2$/NDF: 3591723.5/42




Right In: -3.485+/-2.550 $\chi^2$/NDF: 11.5/15

Left Out: 3.169+/-2.842 $\chi^2$/NDF:2.8/4

Right Out: -5.259+/-2.446 $\chi^2$/NDF: 16.6/18

Left In: -6.074+/-3.403 $\chi^2$/NDF:1.8/2

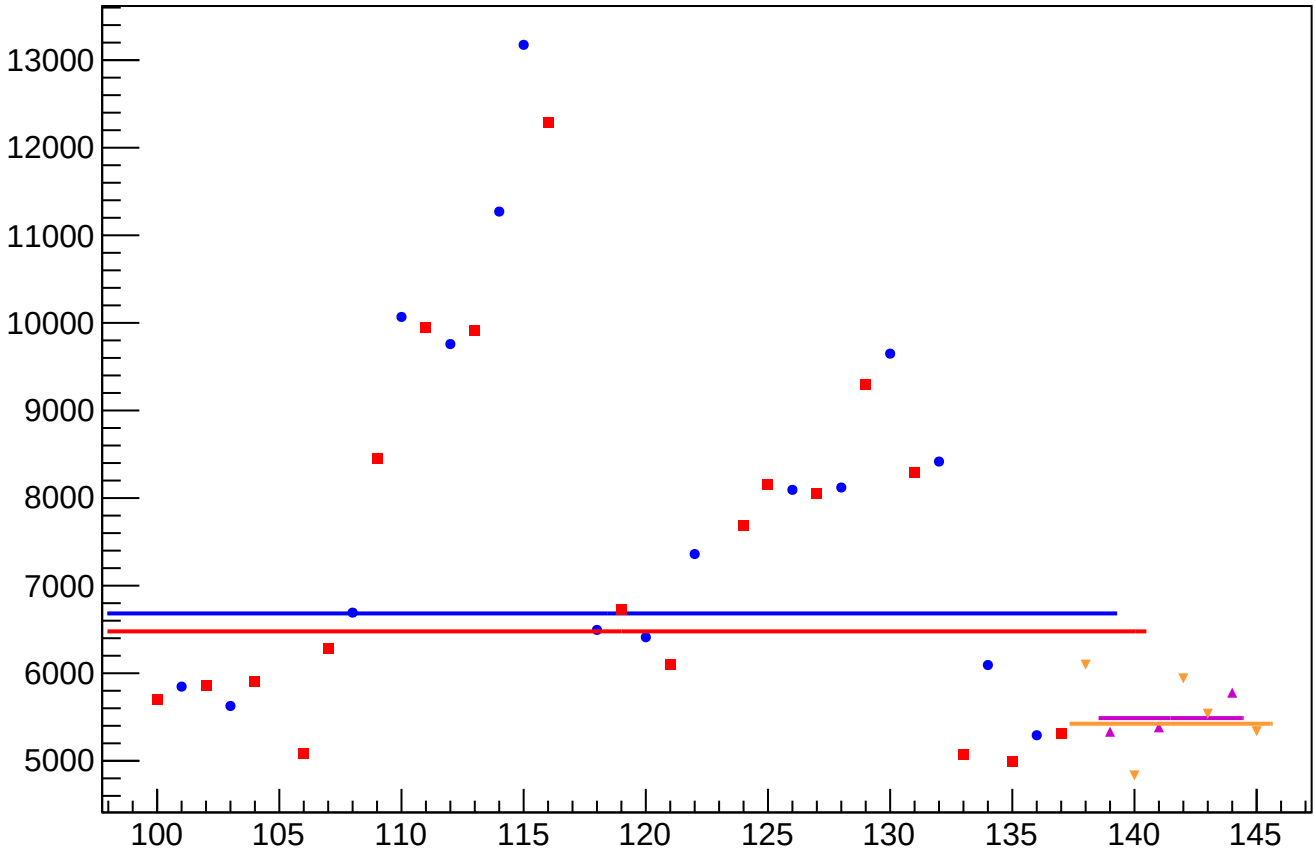
Left: -0.629+/-2.182 $\chi^2$/NDF: 9.0/7

Right: -4.409+/-1.765 $\chi^2$/NDF: 28.3/34

In: -4.416+/-2.041 $\chi^2$/NDF:13.7/18

Out: -1.673+/-1.854 $\chi^2$/NDF:24.5/23

All: -2.913+/-1.372 $\chi^2$/NDF: 39.1/42




Right In: 6682.988+/-1.803 $\chi^2$/NDF: 692200.2/15

Left Out: 5423.729+/-2.010 $\chi^2$/NDF:51711.7/4

Right Out: 6478.126+/-1.730 $\chi^2$/NDF: 839226.8/18

Left In: 5487.989+/-2.407 $\chi^2$/NDF:6576.8/2

Left: 5450.133+/-1.543 $\chi^2$/NDF: 58708.5/7

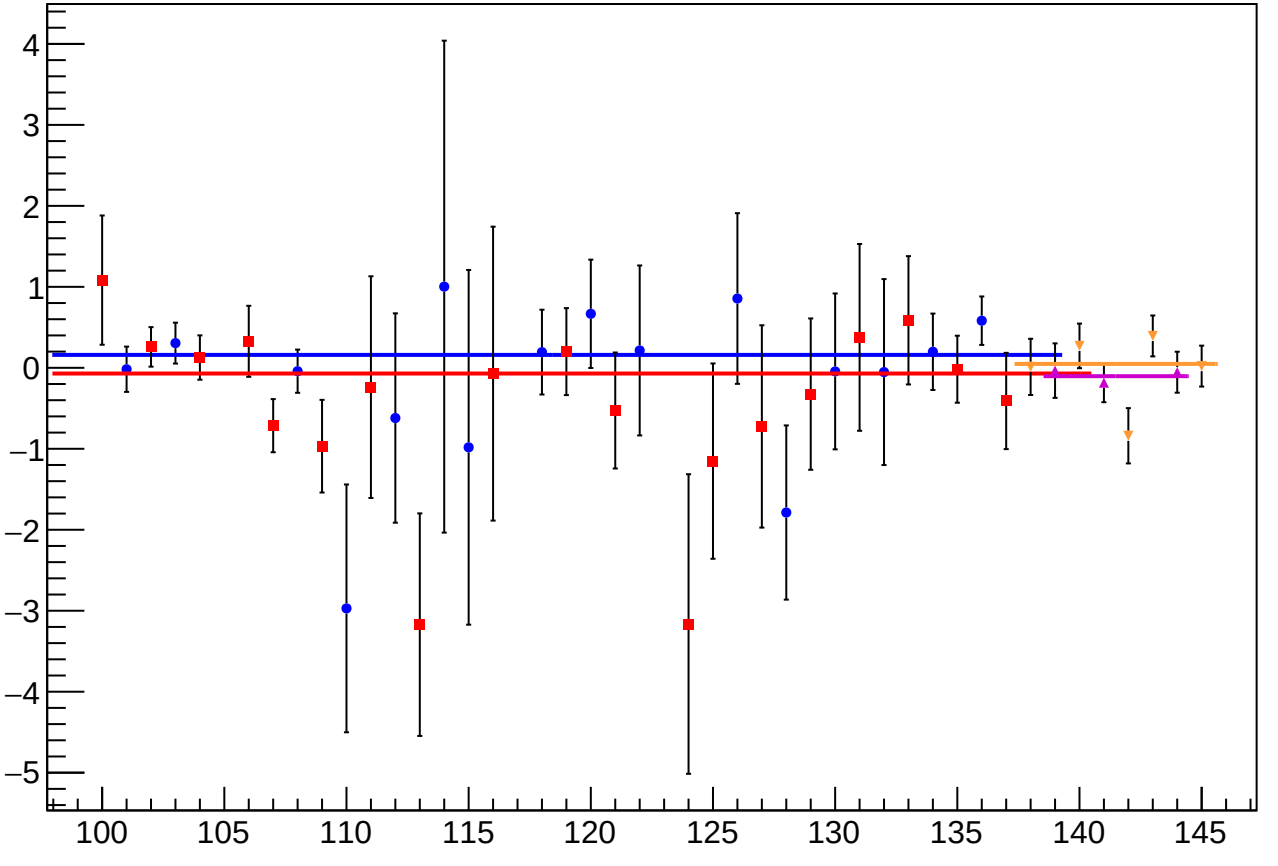
Right: 6576.323+/-1.248 $\chi^2$/NDF: 1538150.0/34

In: 6253.429+/-1.443 $\chi^2$/NDF:856706.7/18

Out: 6029.453+/-1.311 $\chi^2$/NDF:1049039.5/23

All: 6130.747+/-0.970 $\chi^2$/NDF: 1918944.5/42

# diff_targ_thetaX_mean vs Slug, Sign Corrected




Right In: 0.160+/-0.120 $\chi^2$/NDF: 12.6/15

Left Out: 0.048+/-0.128 $\chi^2$/NDF:9.3/4

Right Out: -0.070+/-0.120 $\chi^2$/NDF: 22.5/18

Left In: -0.103+/-0.155 $\chi^2$/NDF:0.2/2

Left: -0.013+/-0.099 $\chi^2$/NDF: 10.1/7

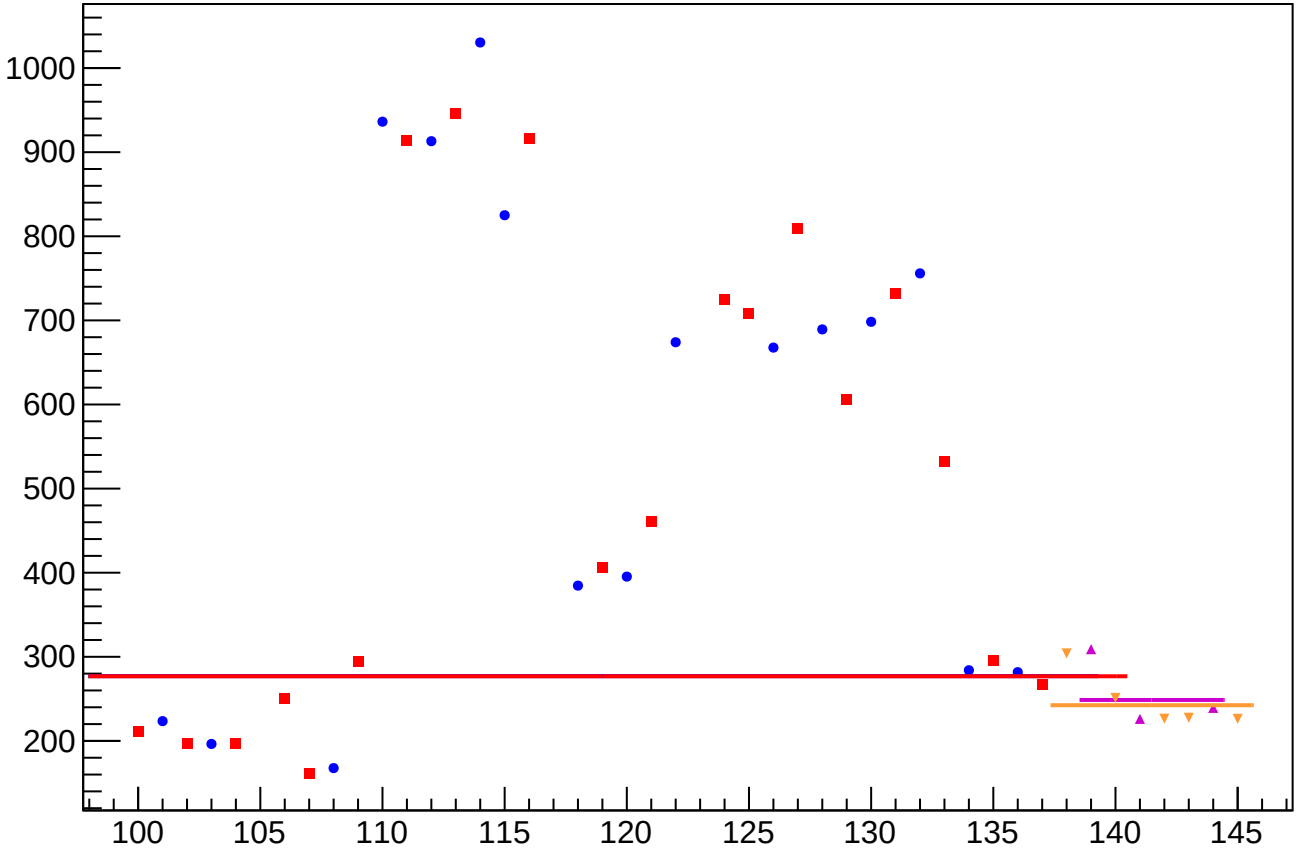
Right: 0.045+/-0.085 $\chi^2$/NDF: 36.9/34

In: 0.061+/-0.095 $\chi^2$/NDF:14.6/18

Out: -0.015+/-0.087 $\chi^2$/NDF:32.2/23

All: 0.020+/-0.064 $\chi^2$/NDF: 47.1/42

# diff_targ_thetaX_rms vs Slug, Sign Corrected




Right In: 277.017+/-0.085 $\chi^2$/NDF: 3450533.8/15

Left Out: 242.444+/-0.090 $\chi^2$/NDF:84586.2/4

Right Out: 276.866+/-0.085 $\chi^2$/NDF: 3571620.7/18

Left In: 248.712+/-0.110 $\chi^2$/NDF:84547.5/2

Left: 244.977+/-0.070 $\chi^2$/NDF: 171083.3/7

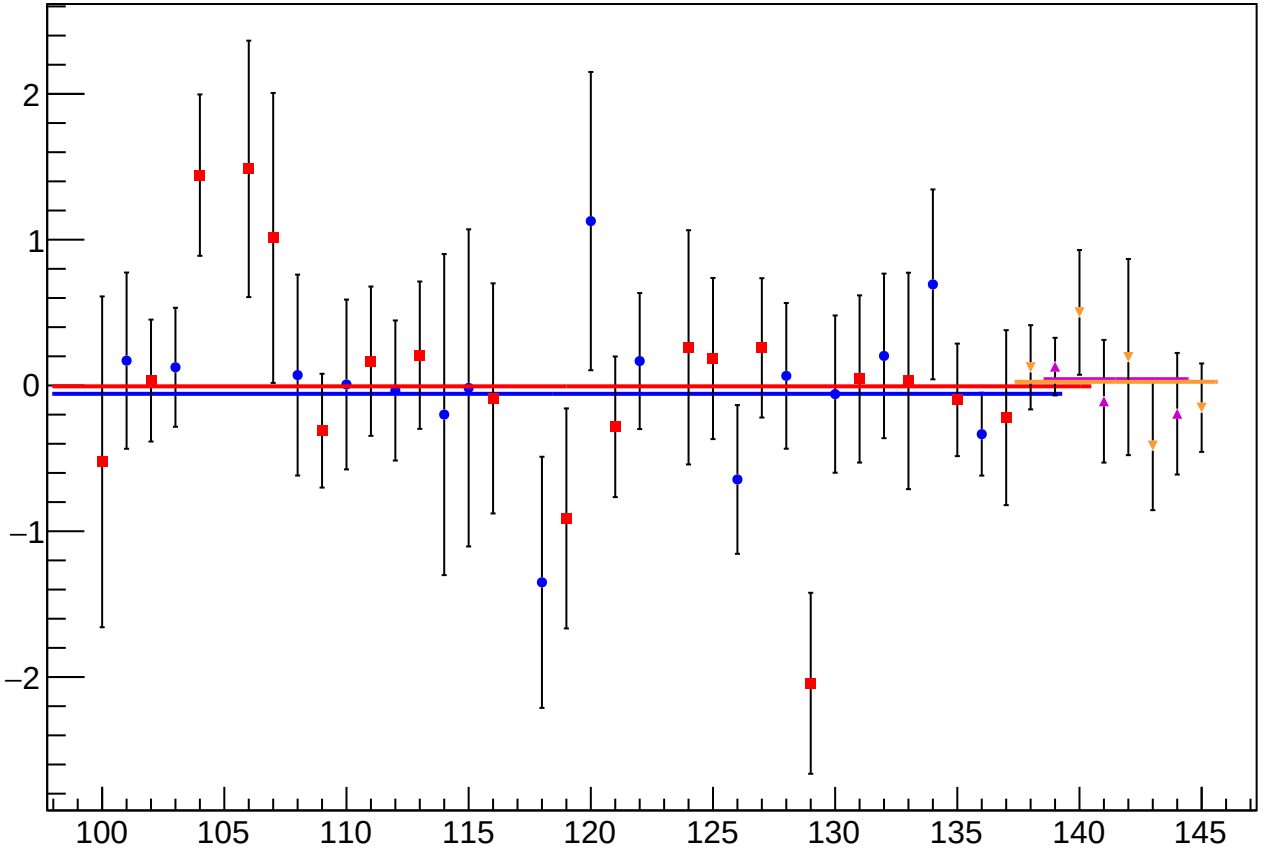
Right: 276.942+/-0.060 $\chi^2$/NDF: 7022156.1/34

In: 266.453+/-0.067 $\chi^2$/NDF:3576904.4/18

Out: 260.757+/-0.062 $\chi^2$/NDF:3733610.8/23

All: 263.375+/-0.045 $\chi^2$/NDF: 7314427.2/42

# diff_targ_thetaY_mean vs Slug, Sign Corrected




Right In: -0.057+/-0.134 $\chi^2$/NDF: 8.1/15

Left Out: 0.025+/-0.168 $\chi^2$/NDF:2.7/4

Right Out: -0.006+/-0.129 $\chi^2$/NDF: 25.2/18

Left In: 0.043+/-0.164 $\chi^2$/NDF:0.6/2

Left: 0.034+/-0.117 $\chi^2$/NDF: 3.4/7

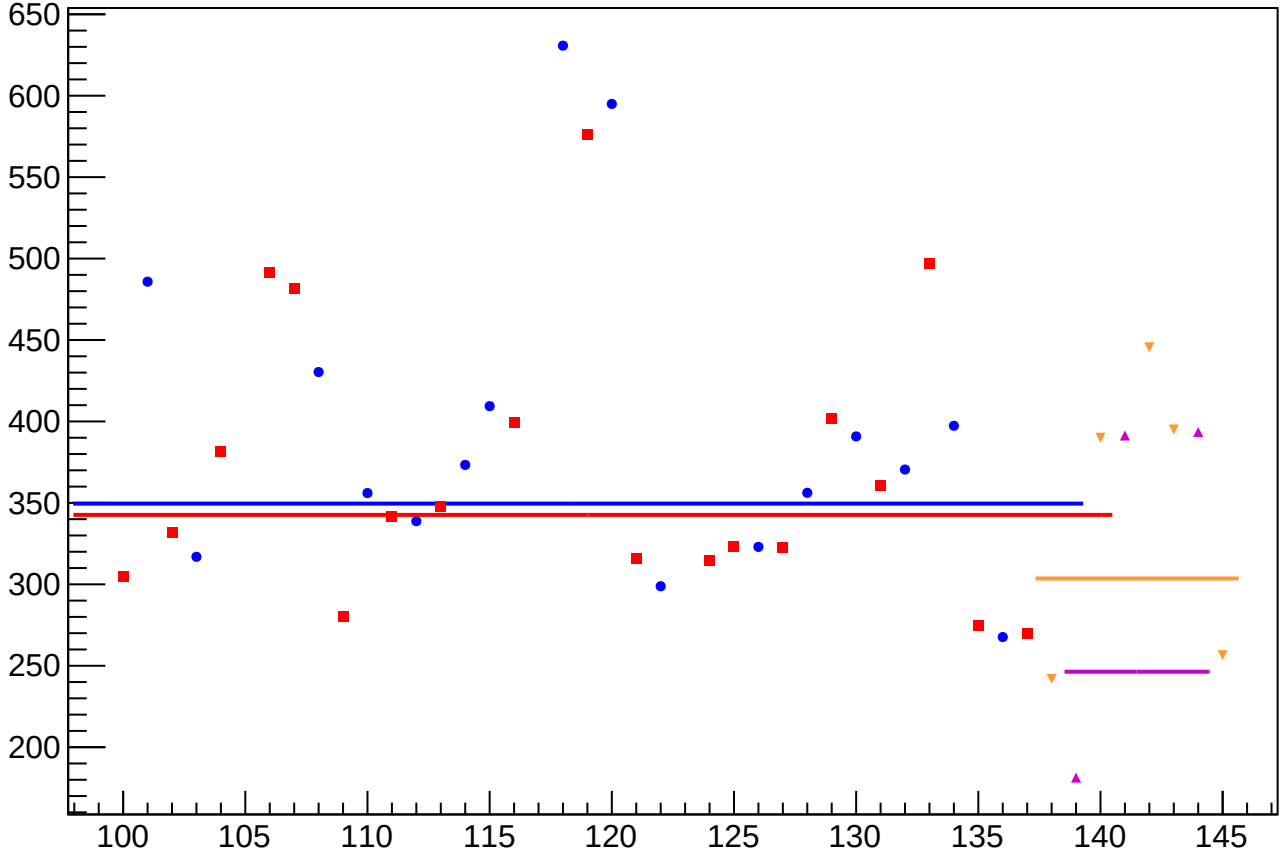
Right: -0.031+/-0.093 $\chi^2$/NDF: 33.4/34

In: -0.017+/-0.104 $\chi^2$/NDF:9.0/18

Out: 0.006+/-0.102 $\chi^2$/NDF:27.9/23

All: -0.006+/-0.073 $\chi^2$/NDF: 36.9/42

# diff_targ_thetaY_rms vs Slug, Sign Corrected




Right In: 349.560+/-0.095 $\chi^2$/NDF: 699303.9/15

Left Out: 303.589+/-0.118 $\chi^2$/NDF:395196.2/4

Right Out: 342.641+/-0.091 $\chi^2$/NDF: 575759.9/18

Left In: 246.345+/-0.116 $\chi^2$/NDF:703366.8/2

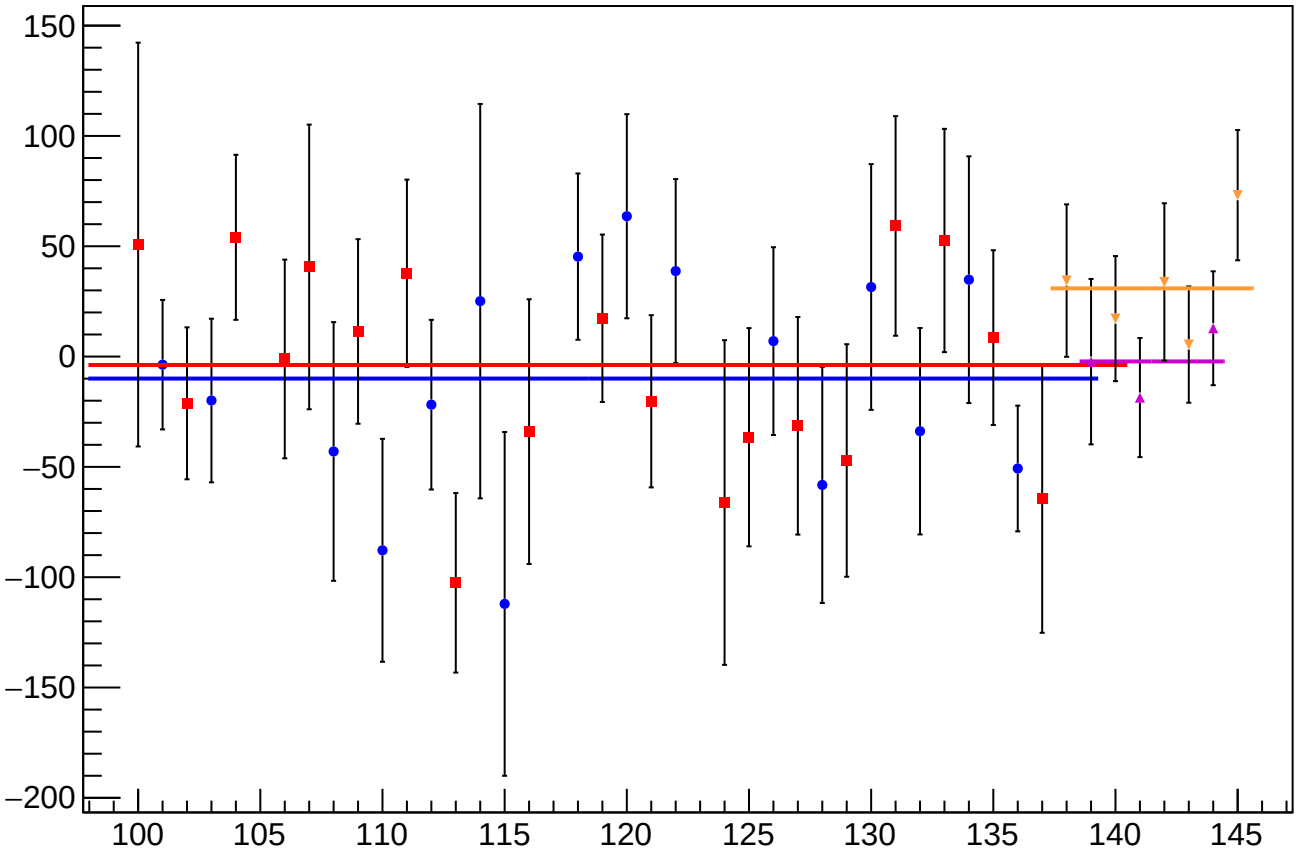
Left: 274.415+/-0.083 $\chi^2$/NDF: 1217552.9/7

Right: 345.972+/-0.066 $\chi^2$/NDF: 1277836.8/34

In: 308.414+/-0.073 $\chi^2$/NDF:1877090.6/18

Out: 328.117+/-0.072 $\chi^2$/NDF:1039203.4/23

All: 318.417+/-0.051 $\chi^2$/NDF: 2952906.7/42




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 30.910+/-13.541 $\chi^2$/NDF:3.2/4

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: -2.204+/-16.699 $\chi^2$/NDF:0.7/2

Left: 17.774+/-10.518 $\chi^2$/NDF: 6.3/7

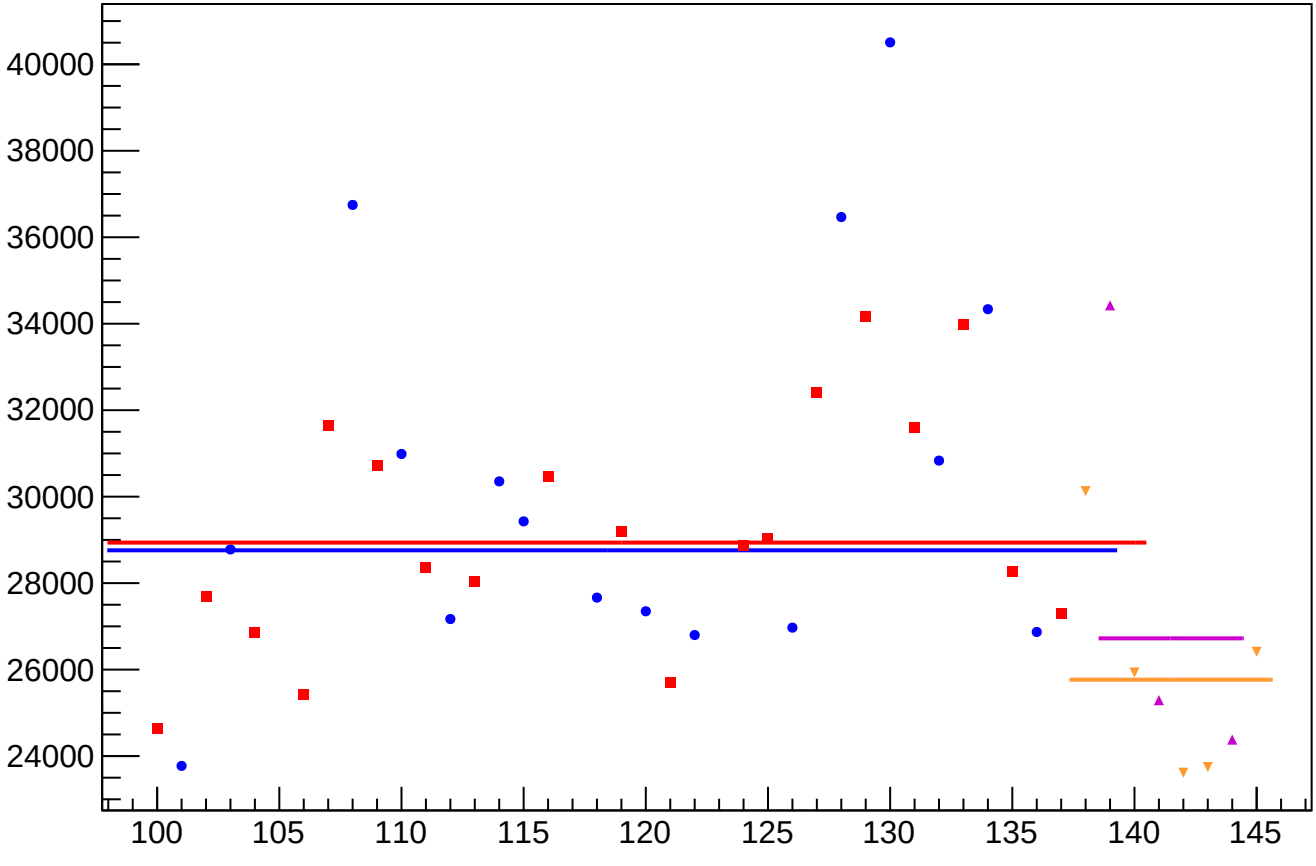
Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

In: -7.668+/-9.090 $\chi^2$/NDF:16.2/18

Out: 9.435+/-8.364 $\chi^2$/NDF:24.6/23

All: 1.593+/-6.155 $\chi^2$/NDF: 42.7/42

# diff_bpmE_rms vs Slug, Sign Corrected




Right In: 28759.090+/-7.662 $\chi^2$/NDF: 277639.9/15

Left Out: 25766.848+/-9.575 $\chi^2$/NDF:51916.4/4

Right Out: 28937.633+/-7.521 $\chi^2$/NDF: 106266.0/18

Left In: 26723.126+/-11.808 $\chi^2$/NDF:106498.0/2

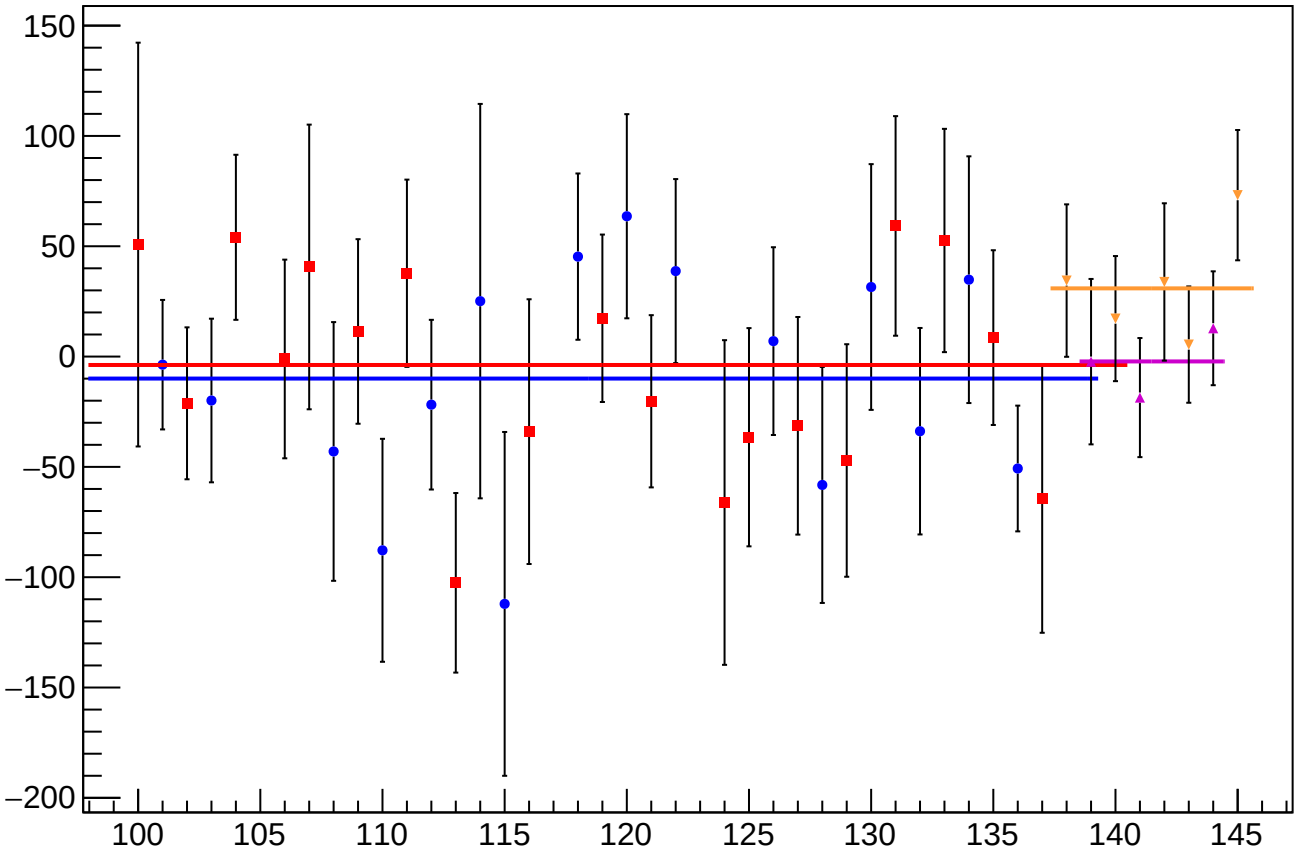
Left: 26146.205+/-7.437 $\chi^2$/NDF: 162371.2/7

Right: 28850.024+/-5.367 $\chi^2$/NDF: 384182.4/34

In: 28155.806+/-6.428 $\chi^2$/NDF:405057.9/18

Out: 27727.806+/-5.915 $\chi^2$/NDF:226000.4/23

All: 27924.043+/-4.352 $\chi^2$/NDF: 633459.2/42




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 30.910+/-13.541 $\chi^2$/NDF:3.2/4

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: -2.204+/-16.699 $\chi^2$/NDF:0.7/2

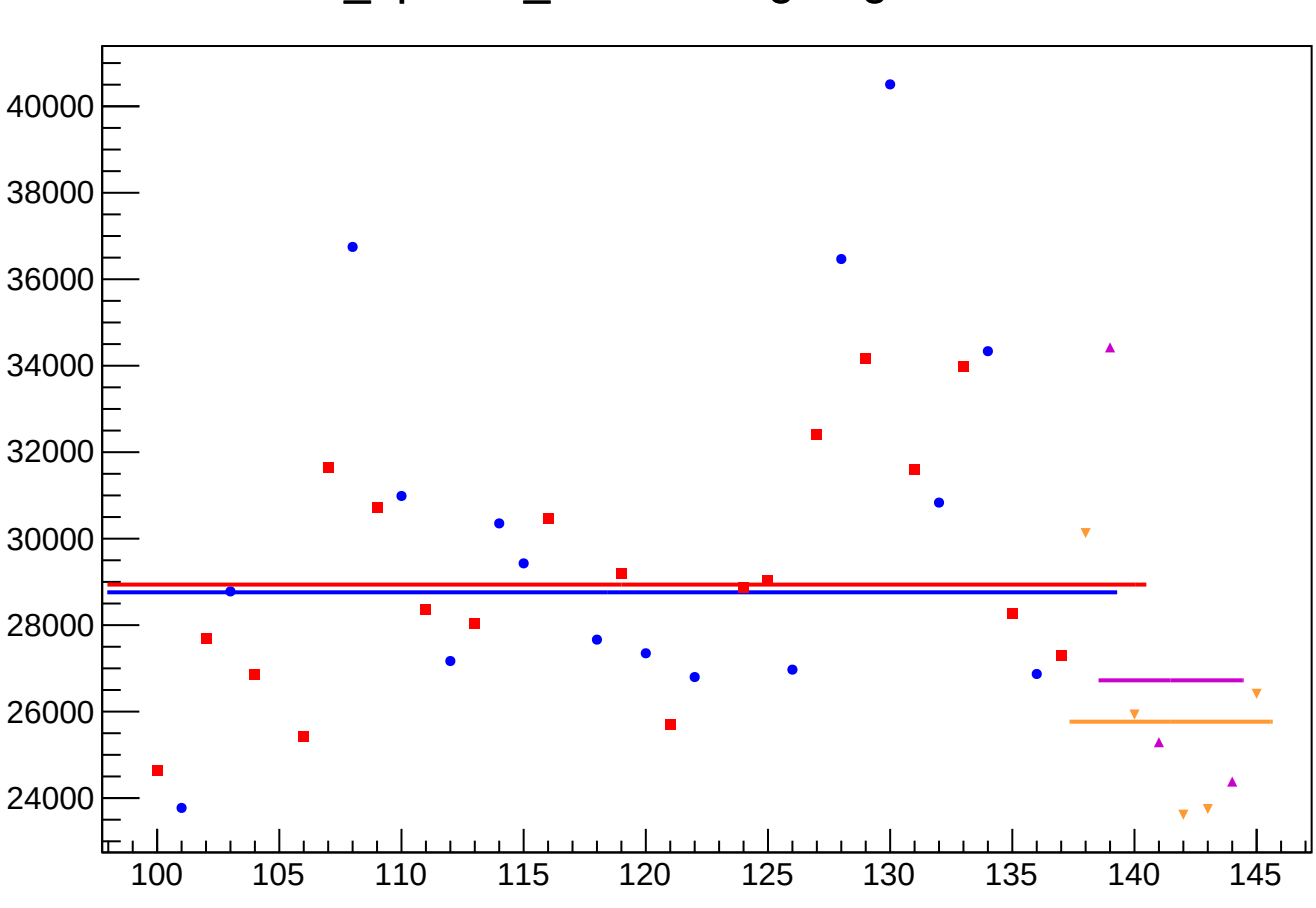
Left: 17.774+/-10.518 $\chi^2$/NDF: 6.3/7

Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

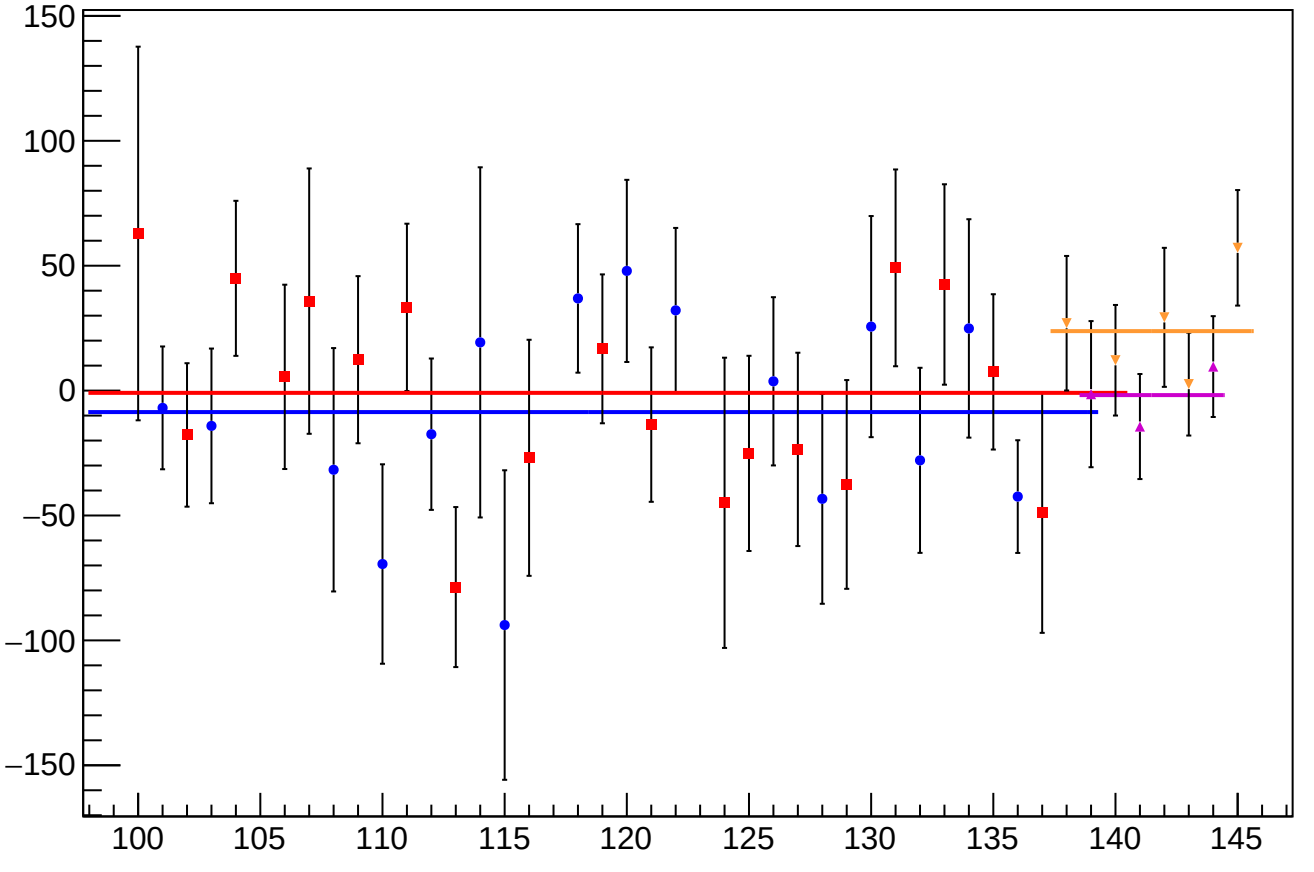
In: -7.668+/-9.090 $\chi^2$/NDF:16.2/18

Out: 9.435+/-8.364 $\chi^2$/NDF:24.6/23

All: 1.593+/-6.155 $\chi^2$/NDF: 42.7/42


diff_bpmEX_rms vs Slug, Sign Corrected
40000
38000
36000
34000
32000
30000
28000
26000
24000
100
105
110
115
120
125
130
135
140
145
Right In: 28759.090+/-7.662 χ²/NDF: 277639.9/15
Left Out: 25766.848+/-9.575 χ²/NDF:51916.4/4
Right Out: 28937.633+/-7.521 χ²/NDF: 106266.0/18
Left In: 26723.126+/-11.808 χ²/NDF:106498.0/2
Left: 26146.205+/-7.437 χ²/NDF: 162371.2/7
Right: 28850.024+/-5.367 χ²/NDF: 384182.4/34
In: 28155.806+/-6.428 χ²/NDF:405057.9/18
Out: 27727.806+/-5.915 χ²/NDF:226000.4/23
All: 27924.043+/-4.352 χ²/NDF: 633459.2/42

# diff_bpmE_11X12X_mean vs Slug, Sign Corrected




Right In: -8.599+/-8.678 $\chi^2$/NDF: 15.5/15

Left Out: 23.809+/-10.577 $\chi^2$/NDF:3.5/4

Right Out: -0.904+/-8.506 $\chi^2$/NDF: 17.6/18

Left In: -1.803+/-13.036 $\chi^2$/NDF:0.7/2

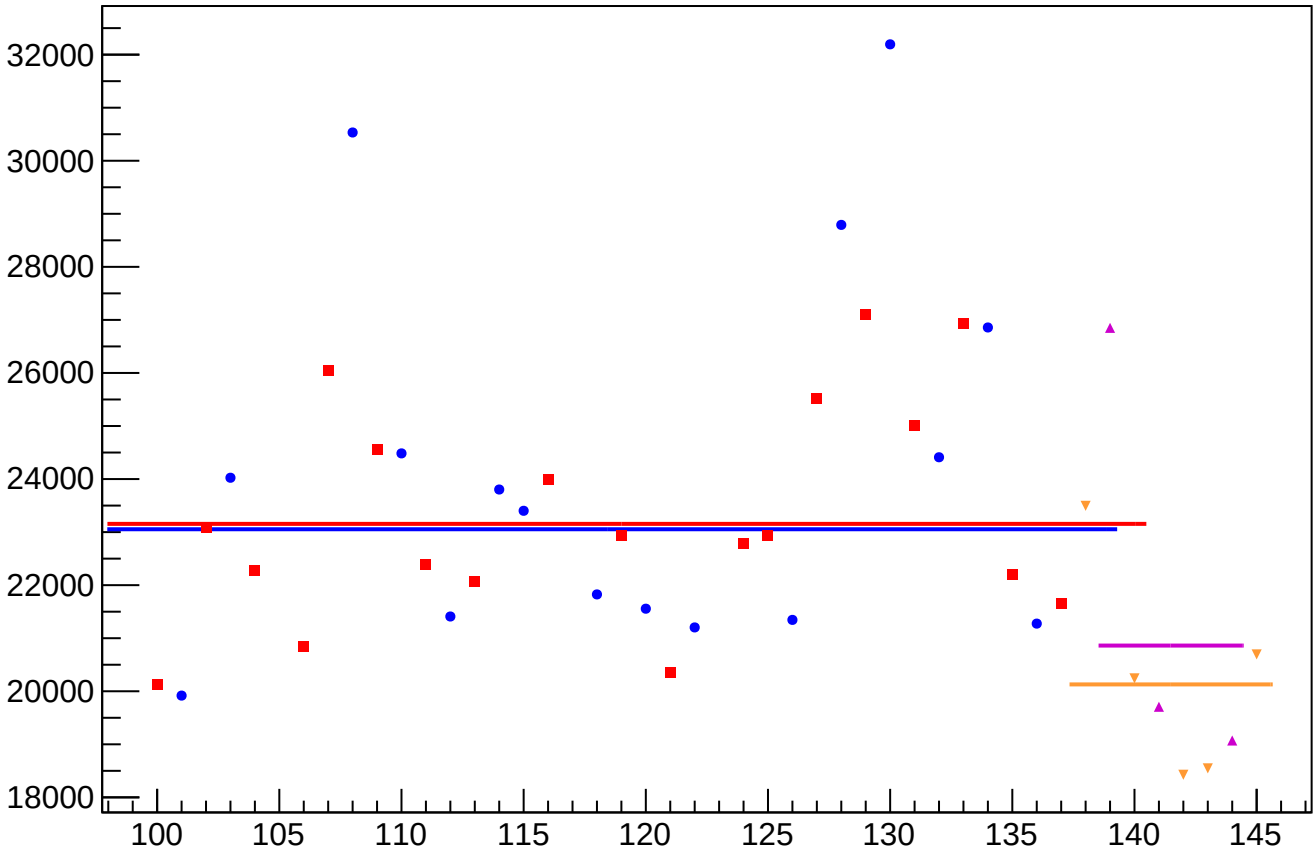
Left: 13.642+/-8.213 $\chi^2$/NDF: 6.5/7

Right: -4.674+/-6.075 $\chi^2$/NDF: 33.5/34

In: -6.512+/-7.224 $\chi^2$/NDF:16.4/18

Out: 8.802+/-6.628 $\chi^2$/NDF:24.4/23

All: 1.802+/-4.884 $\chi^2$/NDF: 43.2/42




Right In: 23053.910+/-6.137 $\chi^2$/NDF: 261444.9/15

Left Out: 20129.159+/-7.479 $\chi^2$/NDF:51798.6/4

Right Out: 23155.251+/-6.015 $\chi^2$/NDF: 93894.1/18

Left In: 20861.324+/-9.218 $\chi^2$/NDF:105583.8/2

Left: 20419.801+/-5.808 $\chi^2$/NDF: 161186.9/7

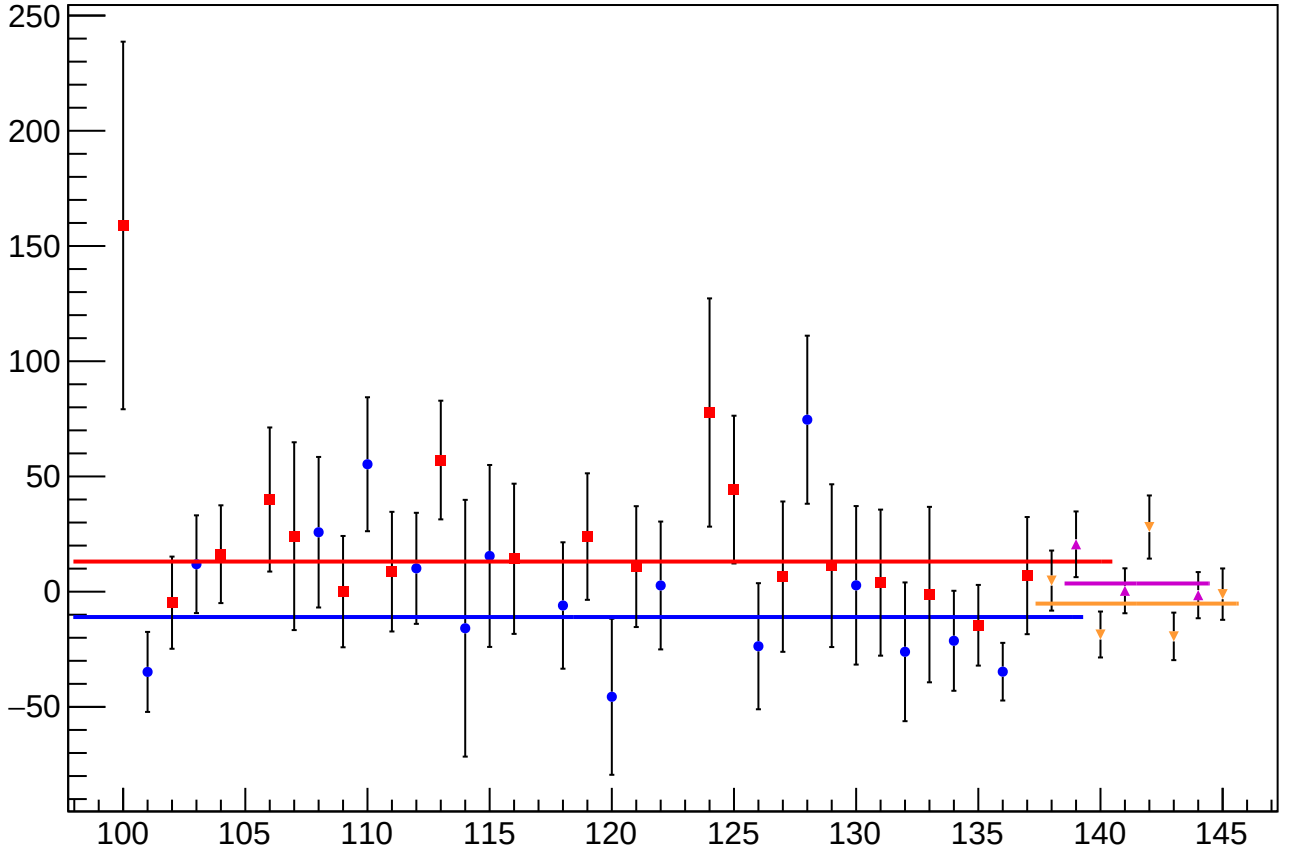
Right: 23105.598+/-4.295 $\chi^2$/NDF: 355478.0/34

In: 22380.585+/-5.108 $\chi^2$/NDF:406232.5/18

Out: 21966.771+/-4.687 $\chi^2$/NDF:245111.4/23

All: 22155.915+/-3.453 $\chi^2$/NDF: 654907.0/42

# diff_bpm4aesumX_mean vs Slug, Sign Corrected




Right In: -11.002+/-6.155 $\chi^2$/NDF: 22.0/15

Left Out: -5.176+/-5.081 $\chi^2$/NDF:10.3/4

Right Out: 13.071+/-6.382 $\chi^2$/NDF: 13.9/18

Left In: 3.553+/-6.275 $\chi^2$/NDF:1.8/2

Left: -1.719+/-3.949 $\chi^2$/NDF: 13.3/7

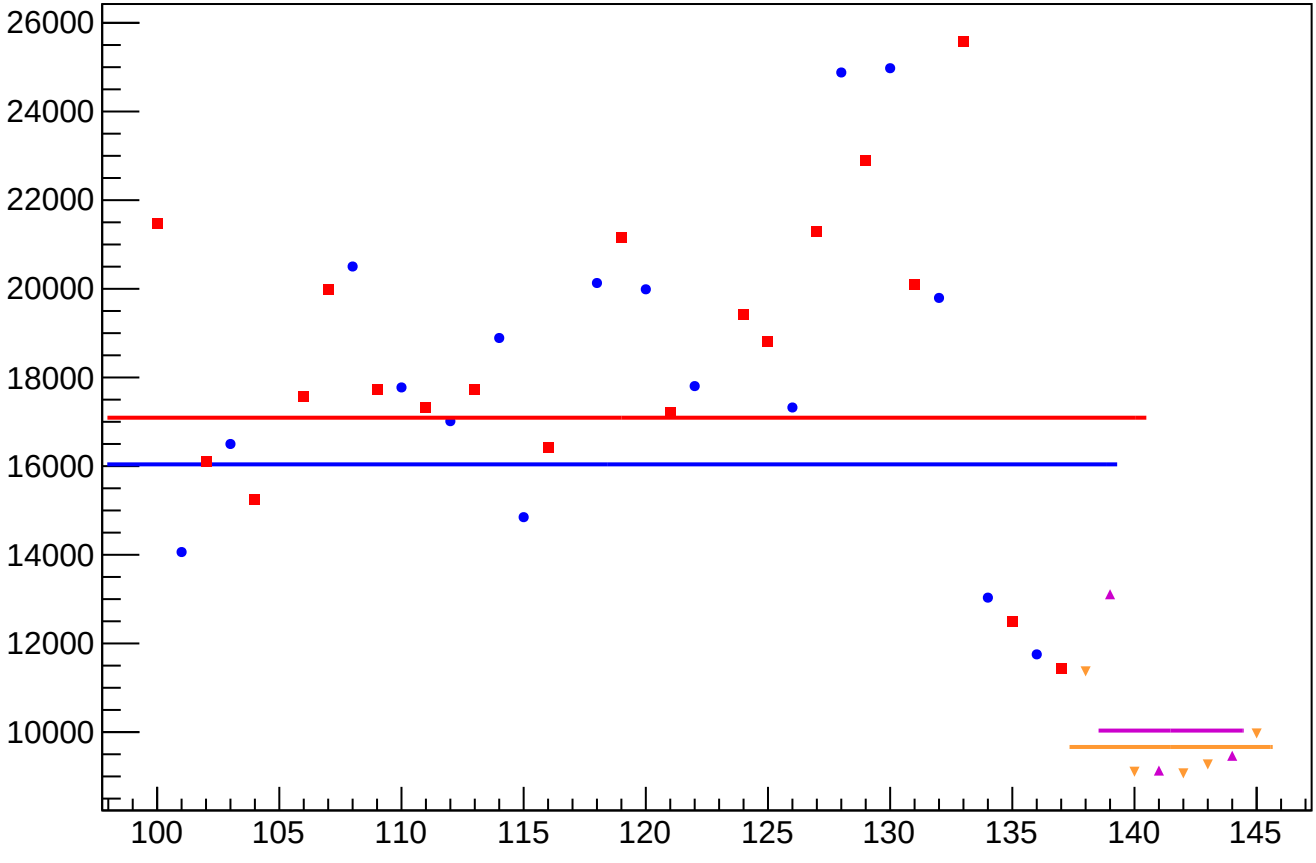
Right: 0.599+/-4.430 $\chi^2$/NDF: 43.3/34

In: -3.865+/-4.394 $\chi^2$/NDF:26.6/18

Out: 1.903+/-3.975 $\chi^2$/NDF:29.2/23

All: -0.693+/-2.948 $\chi^2$/NDF: 56.7/42

# diff_bpm4aesumX_rms vs Slug, Sign Corrected




Right In: 16040.060+/-4.352 $\chi^2$/NDF: 722678.9/15

Left Out: 9664.702+/-3.593 $\chi^2$/NDF:48743.3/4

Right Out: 17092.658+/-4.513 $\chi^2$/NDF: 535464.0/18

Left In: 10034.403+/-4.437 $\chi^2$/NDF:116646.4/2

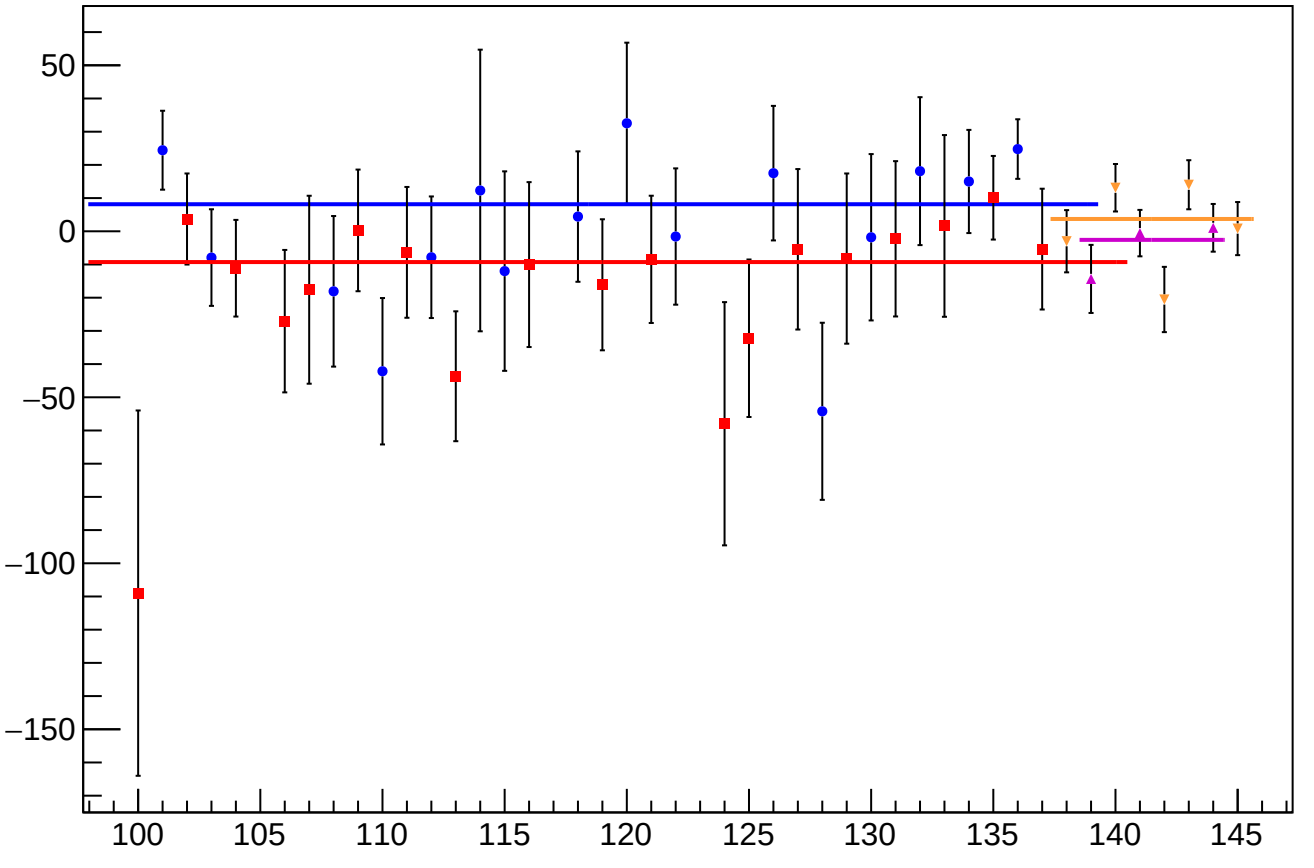
Left: 9811.096+/-2.792 $\chi^2$/NDF: 169583.0/7

Right: 16547.306+/-3.133 $\chi^2$/NDF: 1286331.2/34

In: 13095.260+/-3.107 $\chi^2$/NDF:1773016.2/18

Out: 12546.219+/-2.811 $\chi^2$/NDF:2242535.2/23

All: 12793.312+/-2.084 $\chi^2$/NDF: 4032724.3/4




Right In: 8.150+/-4.423 $\chi^2$/NDF: 21.8/15

Left Out: 3.711+/-3.646 $\chi^2$/NDF:10.4/4

Right Out: -9.270+/-4.607 $\chi^2$/NDF: 13.9/18

Left In: -2.585+/-4.502 $\chi^2$/NDF:1.7/2

Left: 1.217+/-2.833 $\chi^2$/NDF: 13.2/7

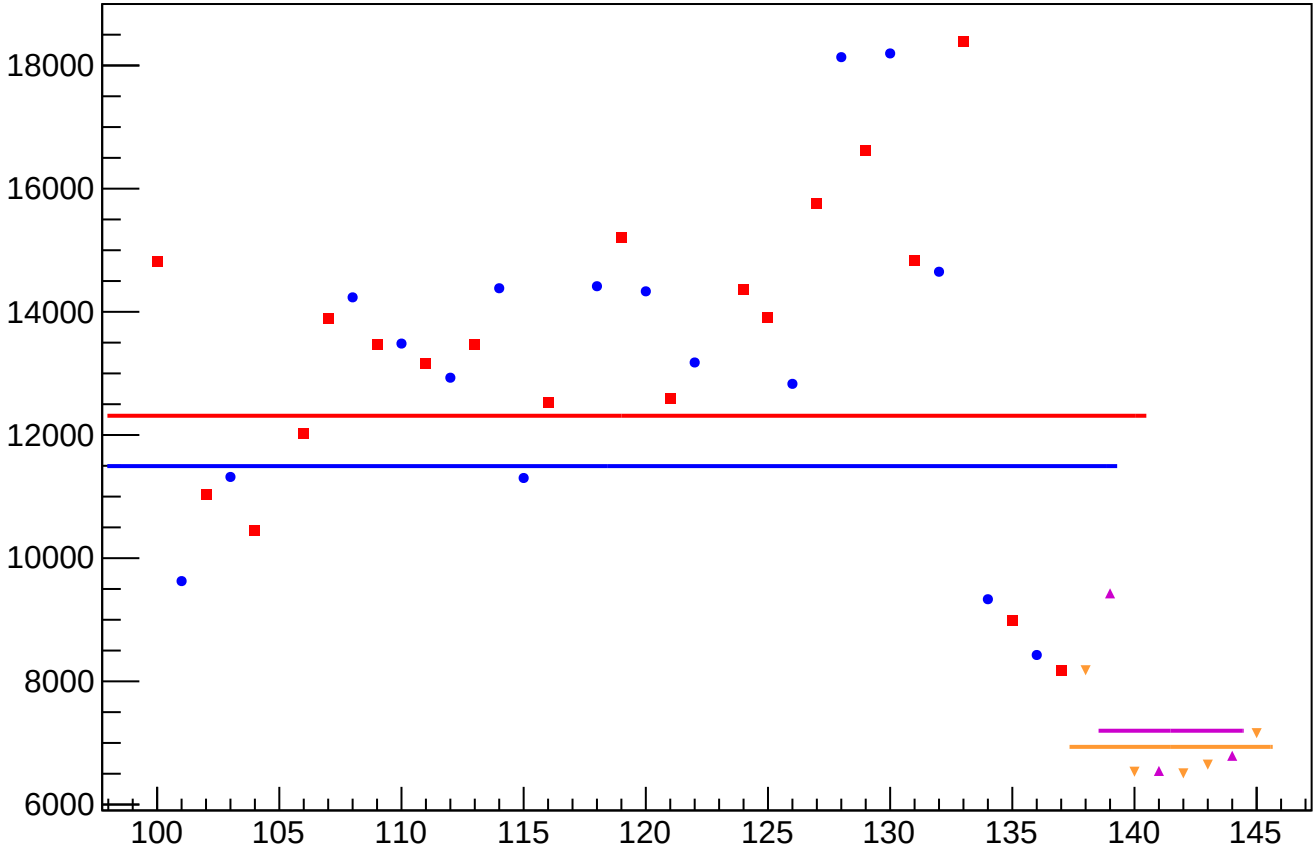
Right: -0.204+/-3.191 $\chi^2$/NDF: 43.1/34

In: 2.878+/-3.155 $\chi^2$/NDF:26.3/18

Out: -1.288+/-2.859 $\chi^2$/NDF:29.2/23

All: 0.590+/-2.119 $\chi^2$/NDF: 56.5/42

# diff_bpm4aediffX_rms vs Slug, Sign Corrected




Right In: 11494.969+/-3.127 $\chi^2$/NDF: 789990.1/15

Left Out: 6936.257+/-2.578 $\chi^2$/NDF:50008.0/4

Right Out: 12312.550+/-3.258 $\chi^2$/NDF: 598755.3/18

Left In: 7198.219+/-3.184 $\chi^2$/NDF:118518.8/2

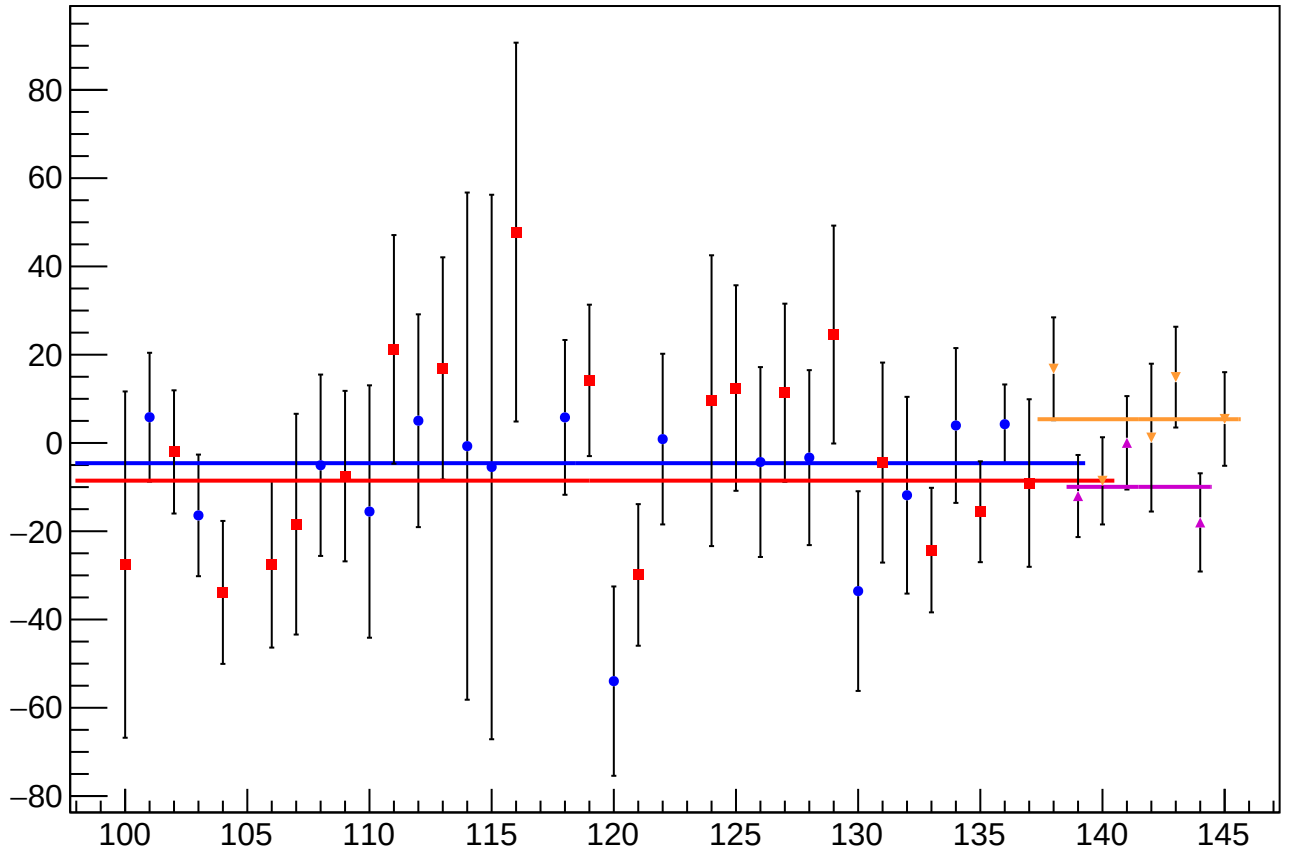
Left: 7040.015+/-2.004 $\chi^2$/NDF: 172615.9/7

Right: 11887.075+/-2.256 $\chi^2$/NDF: 1421522.1/34

In: 9384.813+/-2.231 $\chi^2$/NDF:1835518.7/18

Out: 9006.730+/-2.022 $\chi^2$/NDF:2323402.3/23

All: 9177.207+/-1.498 $\chi^2$/NDF: 4174690.8/42




Right In: -4.578+/-4.554 $\chi^2$/NDF: 10.2/15

Left Out: 5.381+/-5.148 $\chi^2$/NDF:3.7/4

Right Out: -8.537+/-4.392 $\chi^2$/NDF: 17.2/18

Left In: -9.943+/-5.917 $\chi^2$/NDF:1.5/2

Left: -1.220+/-3.884 $\chi^2$/NDF: 9.0/7

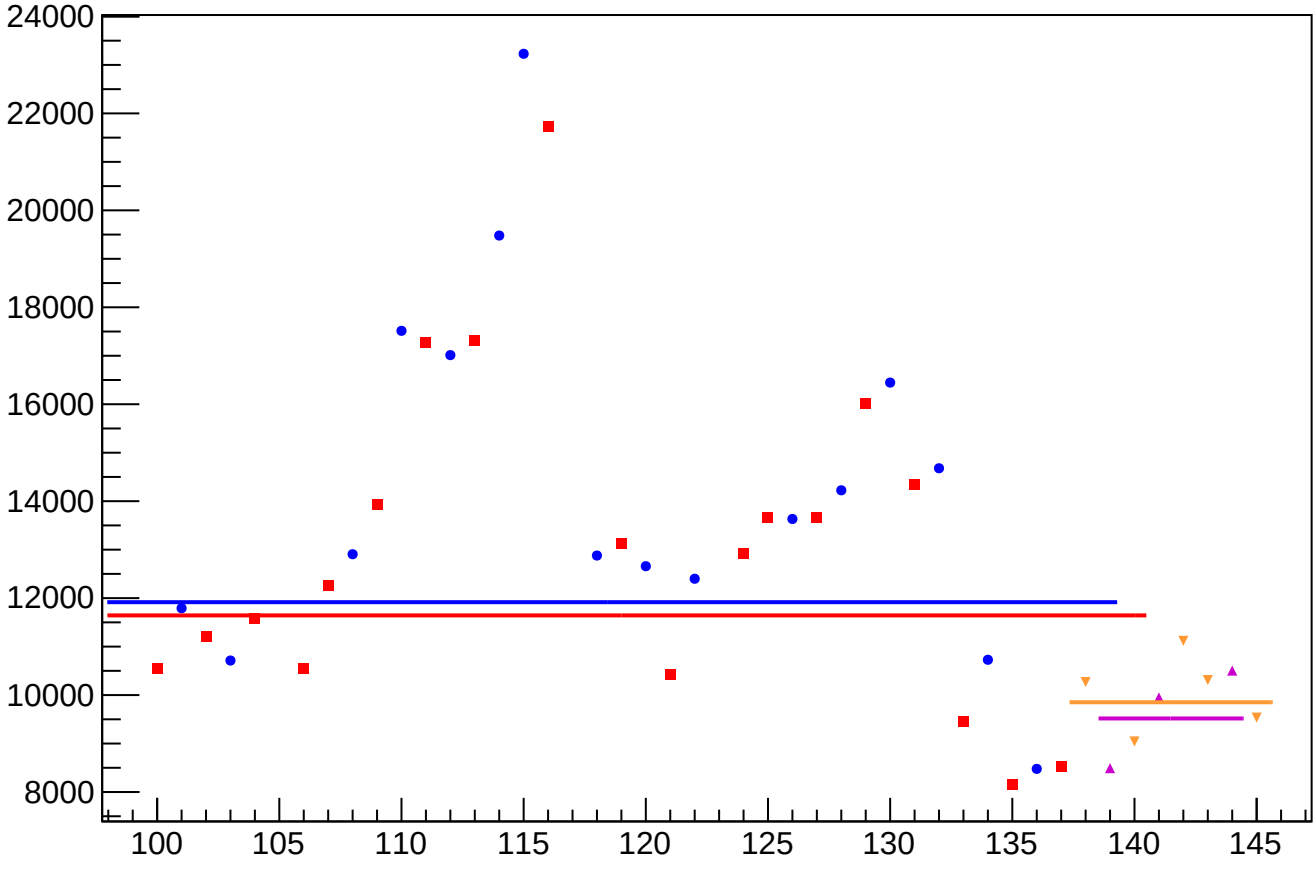
Right: -6.629+/-3.161 $\chi^2$/NDF: 27.8/34

In: -6.574+/-3.609 $\chi^2$/NDF:12.2/18

Out: -2.673+/-3.341 $\chi^2$/NDF:25.1/23

All: -4.474+/-2.452 $\chi^2$/NDF: 38.0/42

# diff_bpm4aesumY_rms vs Slug, Sign Corrected




Right In: 11916.355+/-3.220 $\chi^2$/NDF: 749775.2/15

Left Out: 9851.807+/-3.640 $\chi^2$/NDF:32403.6/4

Right Out: 11643.622+/-3.106 $\chi^2$/NDF: 790359.6/18

Left In: 9517.466+/-4.184 $\chi^2$/NDF:43400.4/2

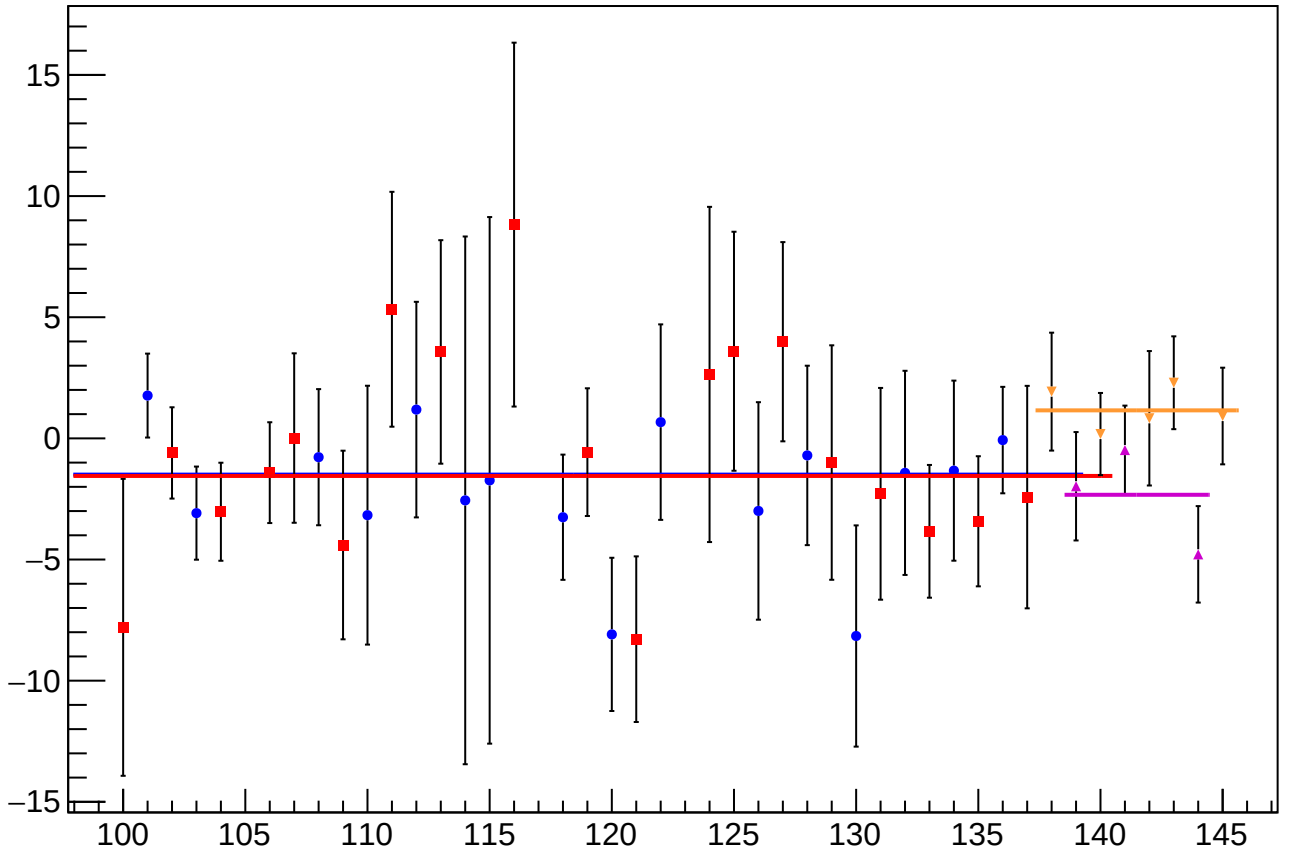
Left: 9707.776+/-2.746 $\chi^2$/NDF: 79438.7/7

Right: 11775.058+/-2.235 $\chi^2$/NDF: 1543851.0/34

In: 11023.975+/-2.552 $\chi^2$/NDF:999615.5/18

Out: 10888.700+/-2.363 $\chi^2$/NDF:962993.9/23

All: 10951.136+/-1.734 $\chi^2$/NDF: 1964122.5/4




Right In: -1.496+/-0.778 $\chi^2$/NDF: 12.6/15

Left Out: 1.156+/-0.924 $\chi^2$/NDF:0.8/4

Right Out: -1.551+/-0.745 $\chi^2$/NDF: 16.3/18

Left In: -2.328+/-1.155 $\chi^2$/NDF:2.6/2

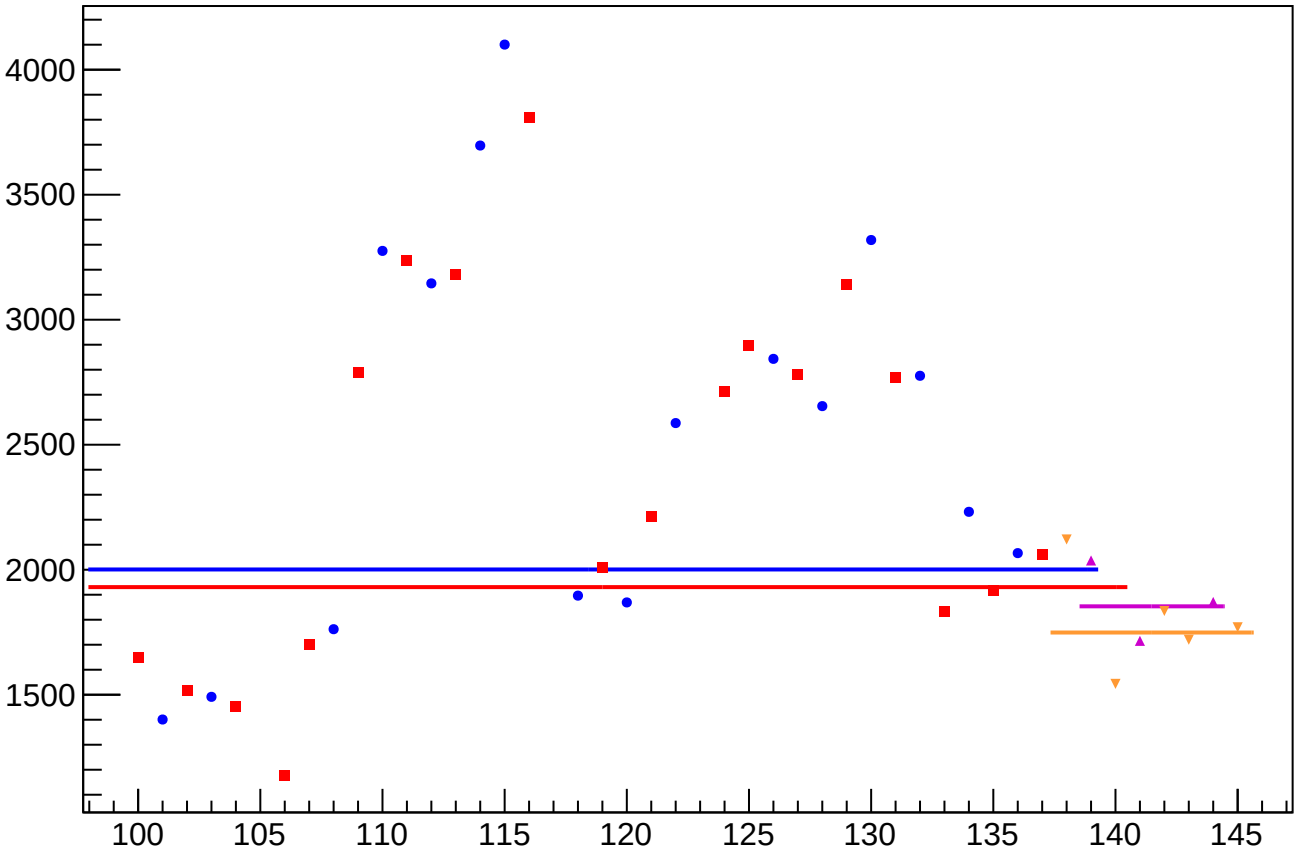
Left: -0.204+/-0.722 $\chi^2$/NDF: 8.9/7

Right: -1.525+/-0.538 $\chi^2$/NDF: 28.9/34

In: -1.756+/-0.645 $\chi^2$/NDF:15.5/18

Out: -0.485+/-0.580 $\chi^2$/NDF:22.3/23

All: -1.053+/-0.431 $\chi^2$/NDF: 39.9/42




Right In: 2001.000+/-0.550 $\chi^2$/NDF: 1189784.2/15

Left Out: 1748.831+/-0.654 $\chi^2$/NDF:78744.6/4

Right Out: 1930.434+/-0.526 $\chi^2$/NDF: 1403552.6/18

Left In: 1853.573+/-0.817 $\chi^2$/NDF:24936.1/2

Left: 1789.727+/-0.510 $\chi^2$/NDF: 113708.8/7

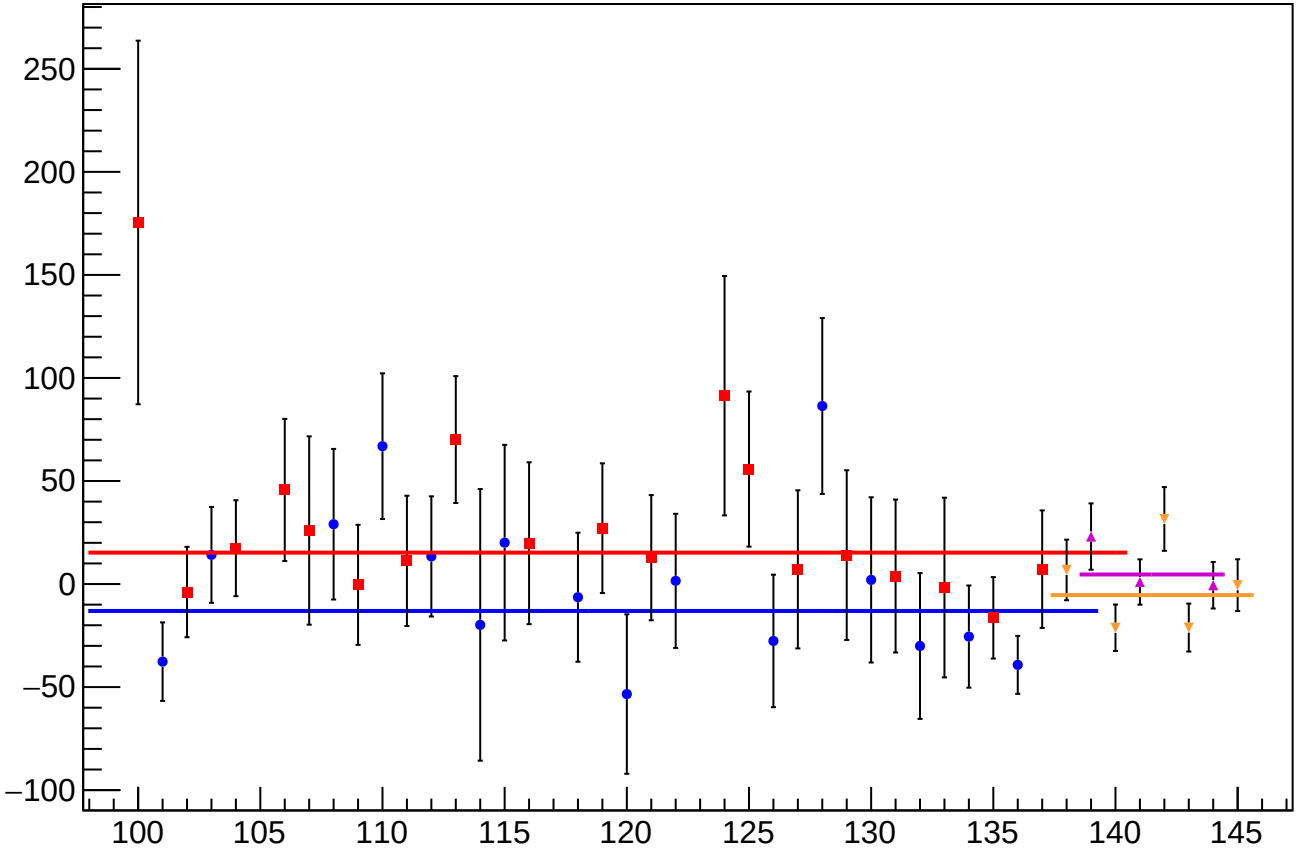
Right: 1964.155+/-0.380 $\chi^2$/NDF: 2601922.6/34

In: 1954.960+/-0.456 $\chi^2$/NDF:1237134.1/18

Out: 1858.971+/-0.410 $\chi^2$/NDF:1529122.4/23

All: 1901.843+/-0.305 $\chi^2$/NDF: 2790738.6/42

# diff_bpmtargetsumX_mean vs Slug, Sign Corrected




Right In: -13.066+/-7.026 $\chi^2$/NDF: 21.9/15

Left Out: -5.360+/-5.735 $\chi^2$/NDF:10.4/4

Right Out: 15.253+/-7.321 $\chi^2$/NDF: 14.3/18

Left In: 4.639+/-7.079 $\chi^2$/NDF:1.6/2

Left: -1.398+/-4.456 $\chi^2$/NDF: 13.2/7

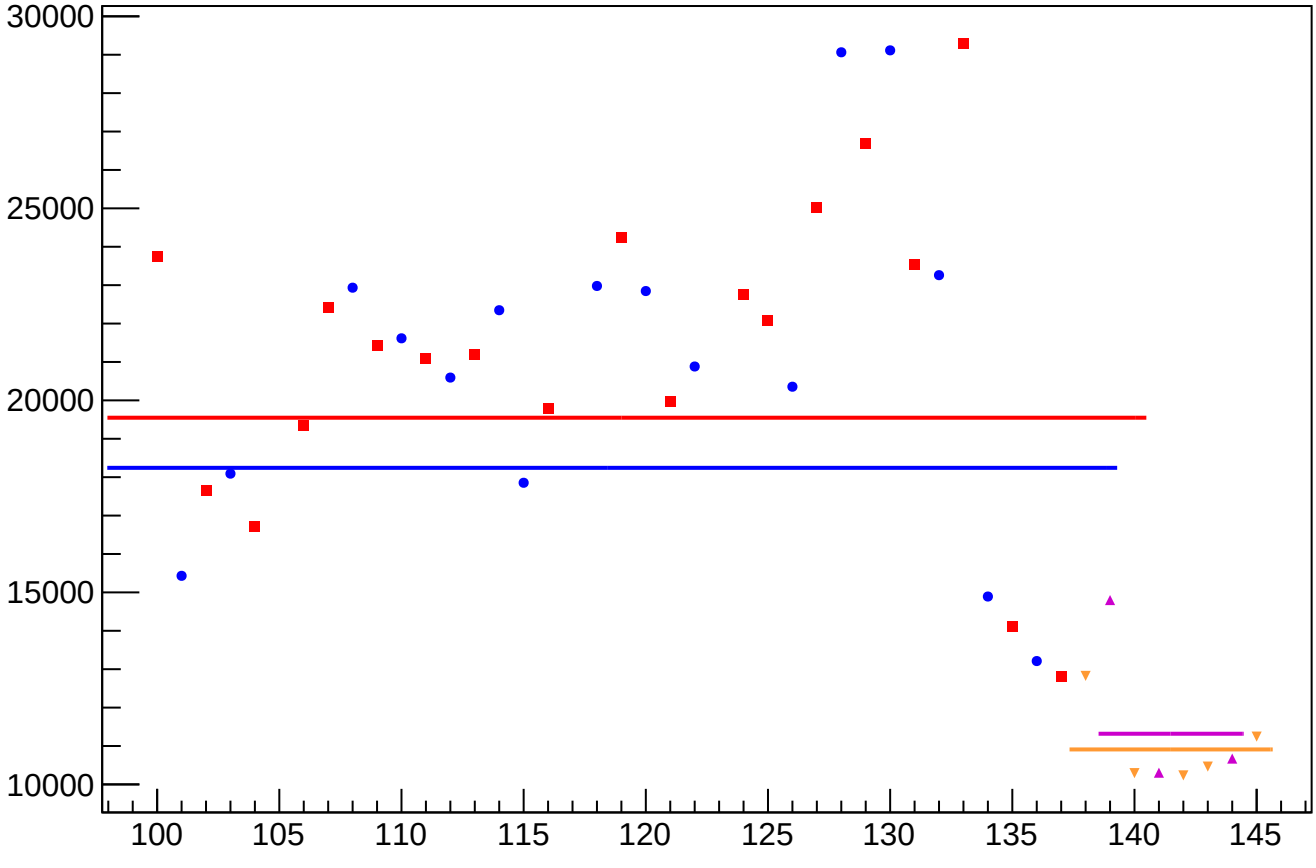
Right: 0.513+/-5.069 $\chi^2$/NDF: 44.0/34

In: -4.279+/-4.987 $\chi^2$/NDF:26.6/18

Out: 2.479+/-4.515 $\chi^2$/NDF:29.6/23

All: -0.565+/-3.347 $\chi^2$/NDF: 57.3/42

# diff_bpmtargetsumX_rms vs Slug, Sign Corrected




Right In: 18243.342+/-4.968 $\chi^2$/NDF: 819828.6/15

Left Out: 10910.512+/-4.055 $\chi^2$/NDF:48138.0/4

Right Out: 19548.426+/-5.176 $\chi^2$/NDF: 621716.4/18

Left In: 11319.286+/-5.005 $\chi^2$/NDF:117122.5/2

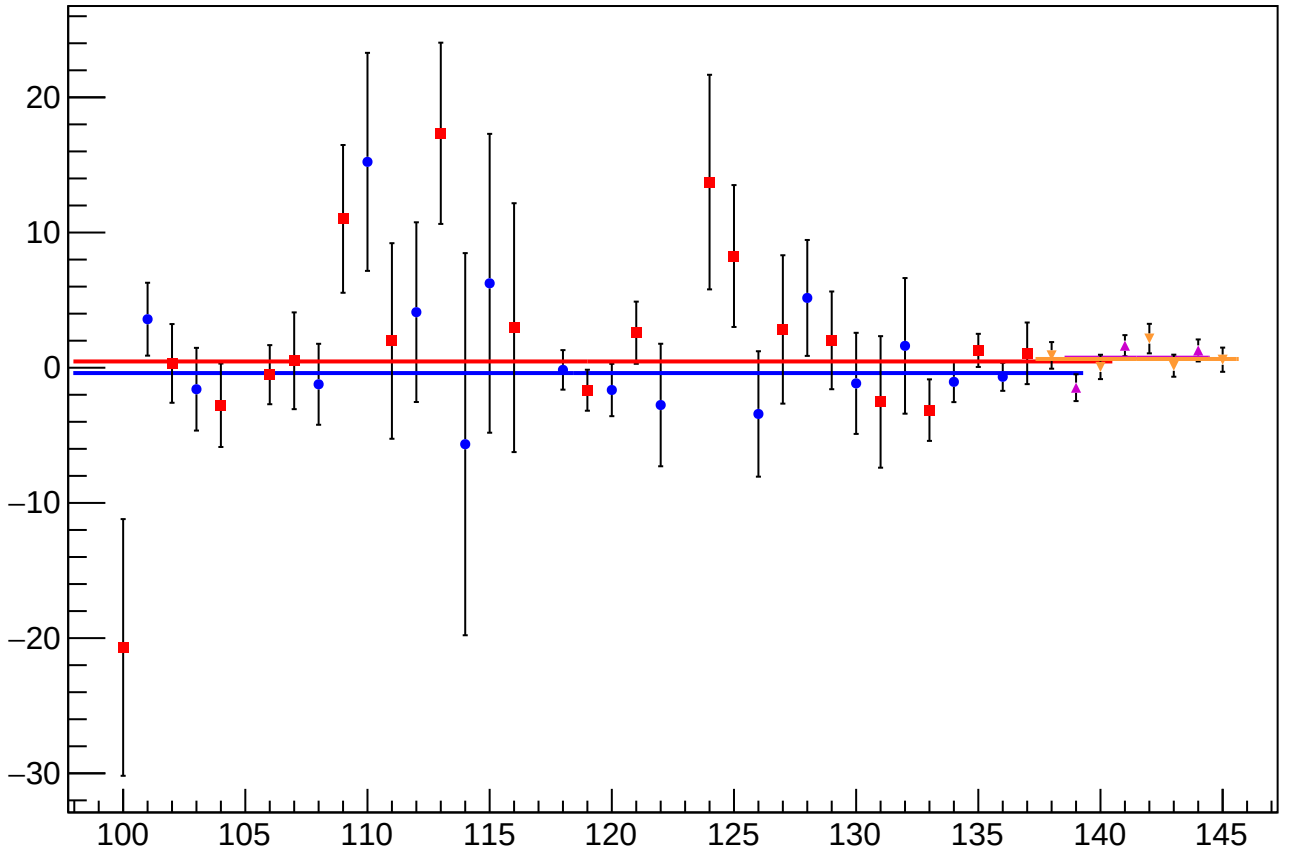
Left: 11072.501+/-3.151 $\chi^2$/NDF: 169286.8/7

Right: 18869.124+/-3.585 $\chi^2$/NDF: 1474629.7/34

In: 14807.053+/-3.526 $\chi^2$/NDF:1900816.9/18

Out: 14195.683+/-3.192 $\chi^2$/NDF:2395345.5/23

All: 14471.061+/-2.367 $\chi^2$/NDF: 4312682.5/4




Right In: -0.394+/-0.600 $\chi^2$/NDF: 10.4/15

Left Out: 0.647+/-0.413 $\chi^2$/NDF:2.8/4

Right Out: 0.464+/-0.634 $\chi^2$/NDF: 28.0/18

Left In: 0.743+/-0.490 $\chi^2$/NDF:6.7/2

Left: 0.687+/-0.316 $\chi^2$/NDF: 9.6/7

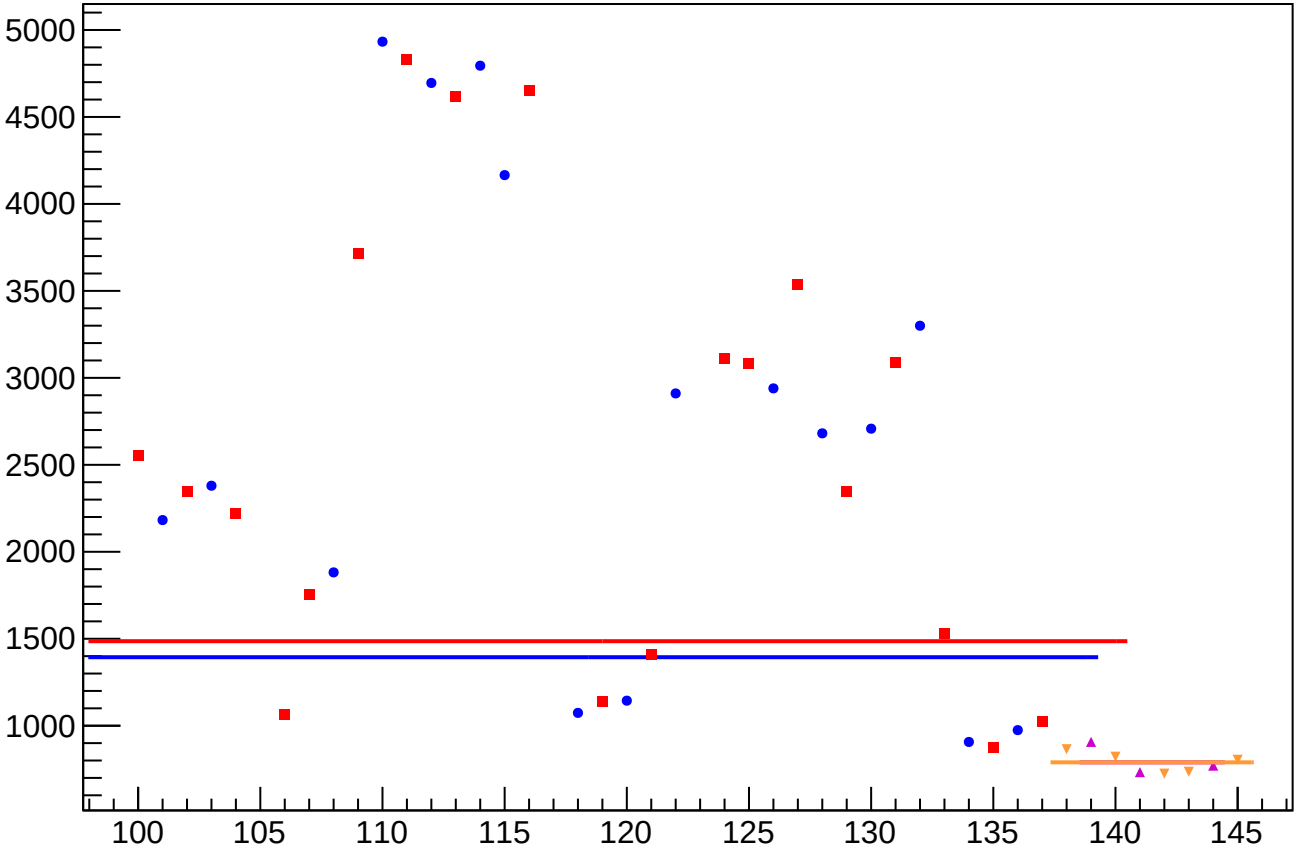
Right: 0.011+/-0.436 $\chi^2$/NDF: 39.4/34

In: 0.288+/-0.379 $\chi^2$/NDF:19.3/18

Out: 0.593+/-0.346 $\chi^2$/NDF:30.9/23

All: 0.454+/-0.256 $\chi^2$/NDF: 50.6/42

# diff_bpmtargetdiffX_rms vs Slug, Sign Corrected




Right In: 1393.912+/-0.424 $\chi^2$/NDF: 3381007.0/15

Left Out: 789.497+/-0.292 $\chi^2$/NDF:30693.0/4

Right Out: 1486.000+/-0.448 $\chi^2$/NDF: 3398817.4/18

Left In: 789.351+/-0.346 $\chi^2$/NDF:39687.5/2

Left: 789.436+/-0.223 $\chi^2$/NDF: 70380.6/7

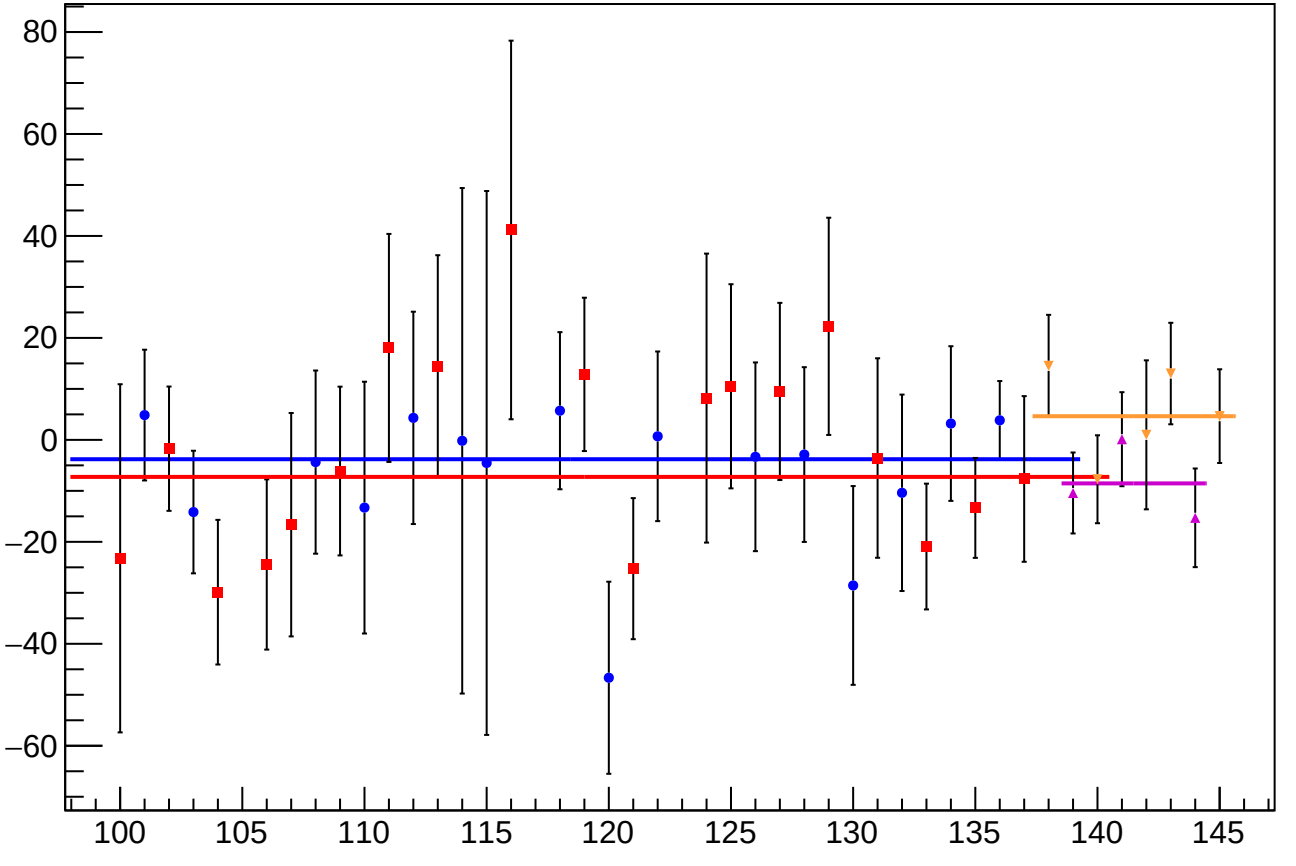
Right: 1437.438+/-0.308 $\chi^2$/NDF: 6802082.3/34

In: 1031.086+/-0.268 $\chi^2$/NDF:4638767.0/18

Out: 997.315+/-0.245 $\chi^2$/NDF:5123590.7/23

All: 1012.658+/-0.181 $\chi^2$/NDF: 9771001.1/42

# diff_bpmtargetsumY_mean vs Slug, Sign Corrected




Right In: -3.795+/-3.943 $\chi^2$/NDF: 10.1/15

Left Out: 4.638+/-4.470 $\chi^2$/NDF:3.8/4

Right Out: -7.264+/-3.807 $\chi^2$/NDF: 17.3/18

Left In: -8.537+/-5.109 $\chi^2$/NDF:1.4/2

Left: -1.074+/-3.364 $\chi^2$/NDF: 9.0/7

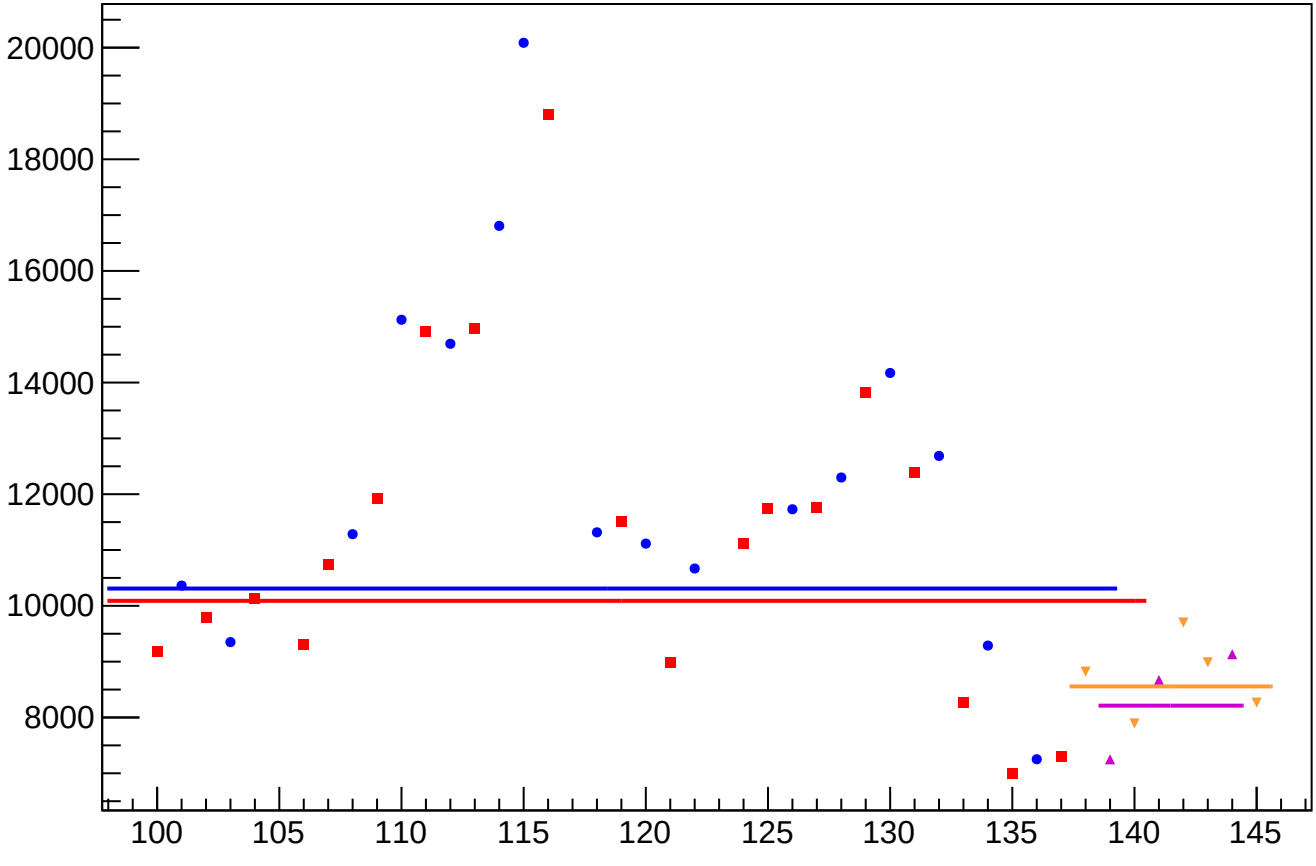
Right: -5.590+/-2.739 $\chi^2$/NDF: 27.7/34

In: -5.565+/-3.122 $\chi^2$/NDF:12.0/18

Out: -2.261+/-2.898 $\chi^2$/NDF:25.2/23

All: -3.790+/-2.124 $\chi^2$/NDF: 37.8/42

# diff_bpmtargetsumY_rms vs Slug, Sign Corrected




Right In: 10309.969+/-2.788 $\chi^2$/NDF: 770518.2/15

Left Out: 8556.398+/-3.161 $\chi^2$/NDF:31239.7/4

Right Out: 10089.584+/-2.692 $\chi^2$/NDF: 792788.1/18

Left In: 8211.682+/-3.613 $\chi^2$/NDF:52433.8/2

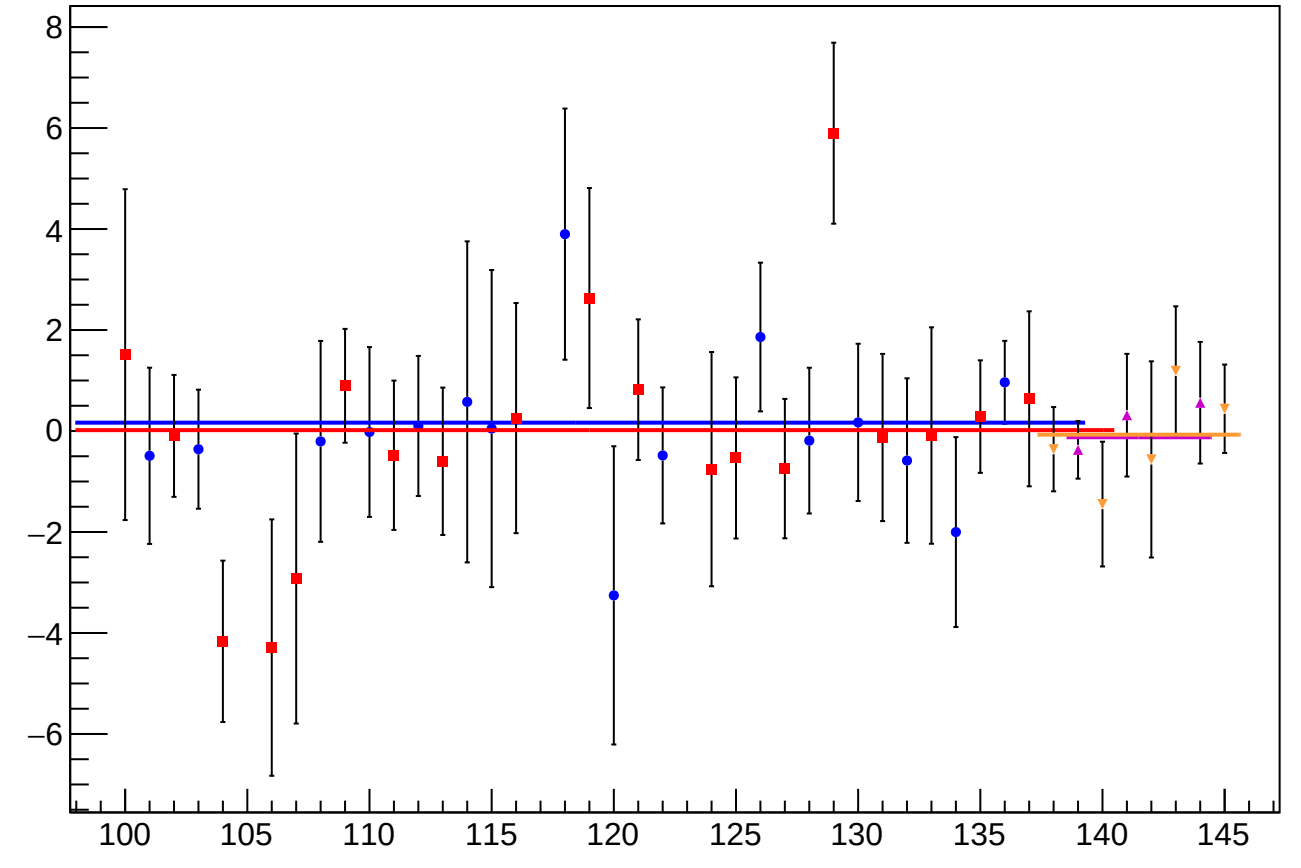
Left: 8406.928+/-2.379 $\chi^2$/NDF: 88829.9/7

Right: 10195.906+/-1.937 $\chi^2$/NDF: 1566539.8/34

In: 9526.733+/-2.207 $\chi^2$/NDF:1034356.1/18

Out: 9445.100+/-2.049 $\chi^2$/NDF:960386.6/23

All: 9482.894+/-1.502 $\chi^2$/NDF: 1995477.2/42




Right In: 0.165+/-0.386 $\chi^2$/NDF: 8.1/15

Left Out: -0.073+/-0.484 $\chi^2$/NDF:2.7/4

Right Out: 0.017+/-0.372 $\chi^2$/NDF: 25.2/18

Left In: -0.124+/-0.474 $\chi^2$/NDF:0.6/2

Left: -0.099+/-0.339 $\chi^2$/NDF: 3.4/7

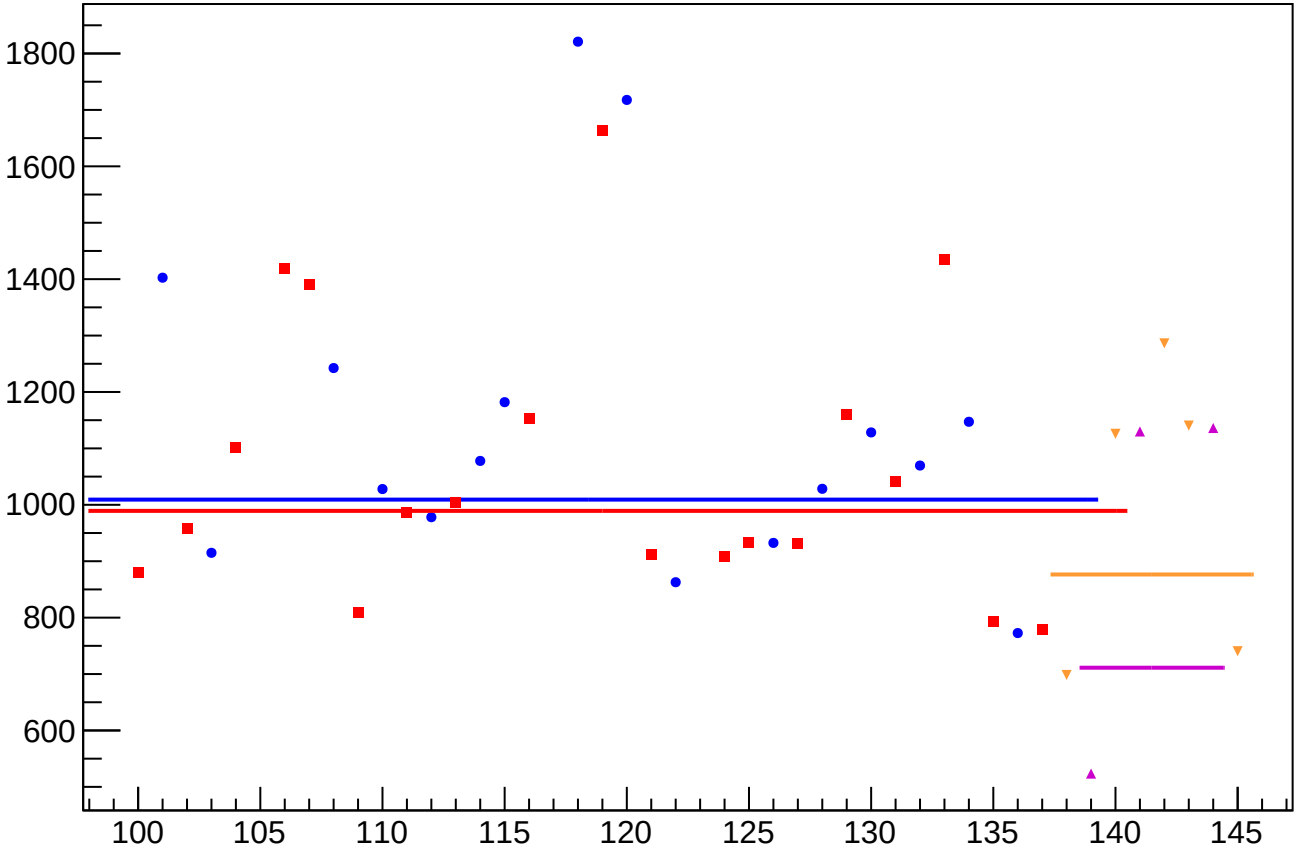
Right: 0.089+/-0.268 $\chi^2$/NDF: 33.4/34

In: 0.050+/-0.300 $\chi^2$/NDF:9.0/18

Out: -0.016+/-0.295 $\chi^2$/NDF:27.9/23

All: 0.016+/-0.210 $\chi^2$/NDF: 36.9/42

# diff_bpmtargetdiffY_rms vs Slug, Sign Corrected




Right In: 1009.222+/-0.273 $\chi^2$/NDF: 699303.9/15

Left Out: 876.497+/-0.342 $\chi^2$/NDF:395196.2/4

Right Out: 989.246+/-0.263 $\chi^2$/NDF: 575759.9/18

Left In: 711.228+/-0.335 $\chi^2$/NDF:703366.8/2

Left: 792.267+/-0.240 $\chi^2$/NDF: 1217552.9/7

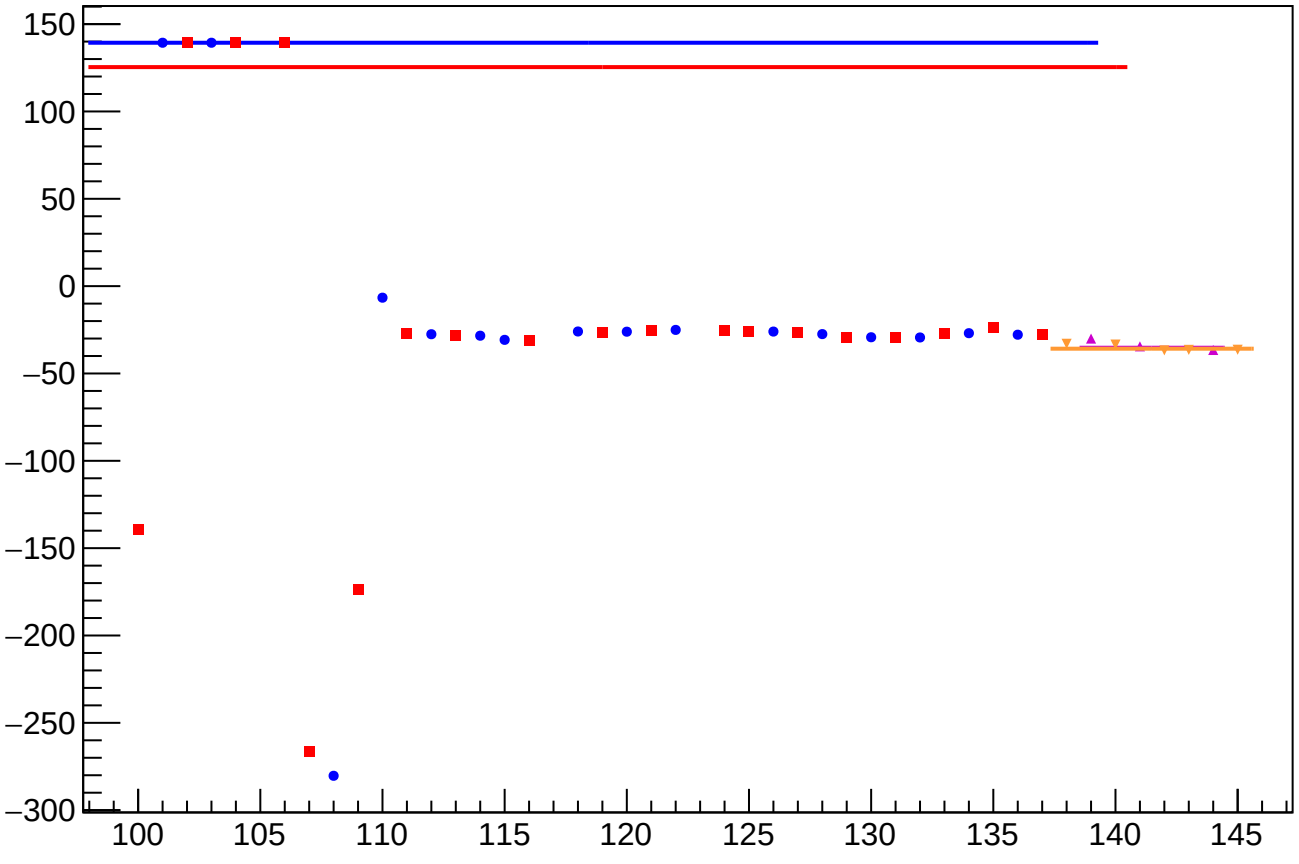
Right: 998.863+/-0.190 $\chi^2$/NDF: 1277836.8/34

In: 890.427+/-0.212 $\chi^2$/NDF:1877090.6/18

Out: 947.312+/-0.209 $\chi^2$/NDF:1039203.4/23

All: 919.307+/-0.149 $\chi^2$/NDF: 2952906.7/42

# yield_cav4bX_mean vs Slug, Sign Corrected




Right In: 139.337+/-0.000 $\chi^2$/NDF: 47088045550.1/15

Left Out: -35.813+/-0.001 $\chi^2$/NDF:3286647.2/4

Right Out: 125.392+/-0.000 $\chi^2$/NDF: 774173119844052.5/18

Left In: -35.258+/-0.001 $\chi^2$/NDF:4110095.2/2

Left: -35.612+/-0.001 $\chi^2$/NDF: 7598912.0/7

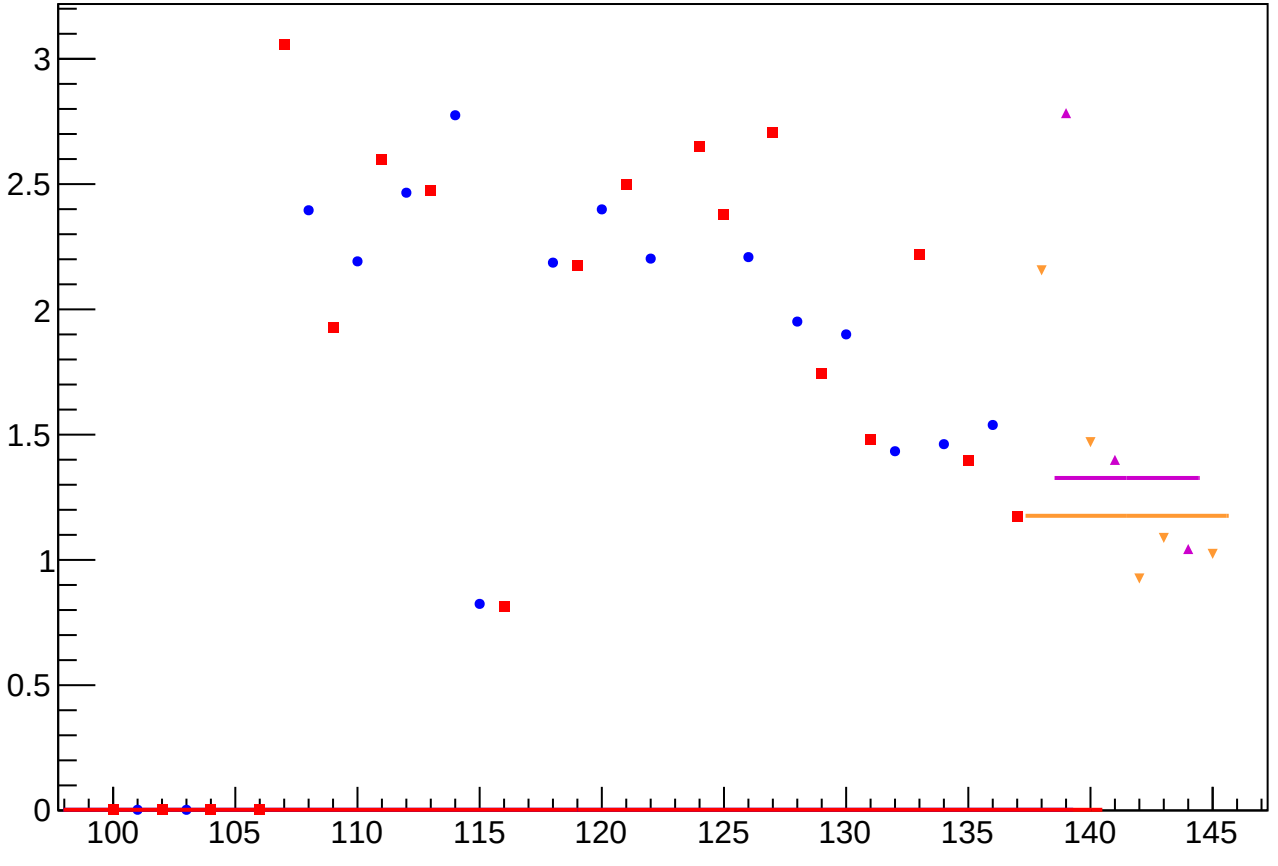
Right: 131.818+/-0.000 $\chi^2$/NDF: 793004999492497

In: 139.336+/-0.000 $\chi^2$/NDF:78486263389.2/18

Out: 125.390+/-0.000 $\chi^2$/NDF:774220041995639.

All: 131.817+/-0.000 $\chi^2$/NDF: 79308448966

# yield_cav4bX_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 9565657.6/15

Left Out: 1.176+/-0.001 $\chi^2$/NDF:392850.3/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 9733783.1/18

Left In: 1.327+/-0.001 $\chi^2$/NDF:551943.4/2

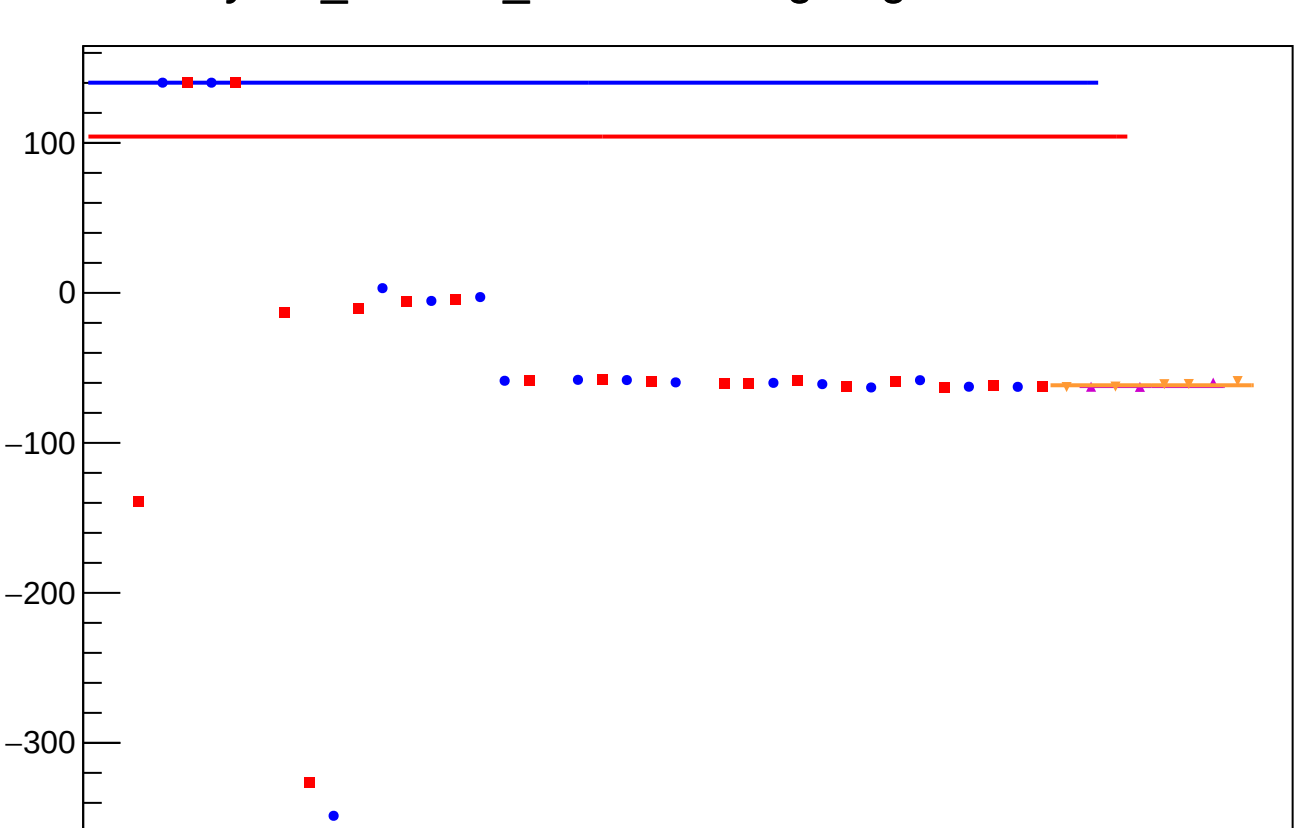
Left: 1.231+/-0.000 $\chi^2$/NDF: 974693.9/7

Right: 0.003+/-0.000 $\chi^2$/NDF: 19299624.2/34

In: 0.003+/-0.000 $\chi^2$/NDF:13730594.2/18

Out: 0.003+/-0.000 $\chi^2$/NDF:15098976.3/23

All: 0.003+/-0.000 $\chi^2$/NDF: 28829725.5/42




Right In: 140.143+/-0.000 $\chi^2$/NDF: 187461723281.9/15

Left Out: -61.592+/-0.000 $\chi^2$/NDF:13694915.0/4

Right Out: 104.224+/-0.000 $\chi^2$/NDF: 1257401882577977.0/18

Left In: -62.117+/-0.000 $\chi^2$/NDF:5197605.5/2

Left: -61.823+/-0.000 $\chi^2$/NDF: 19608317.5/7

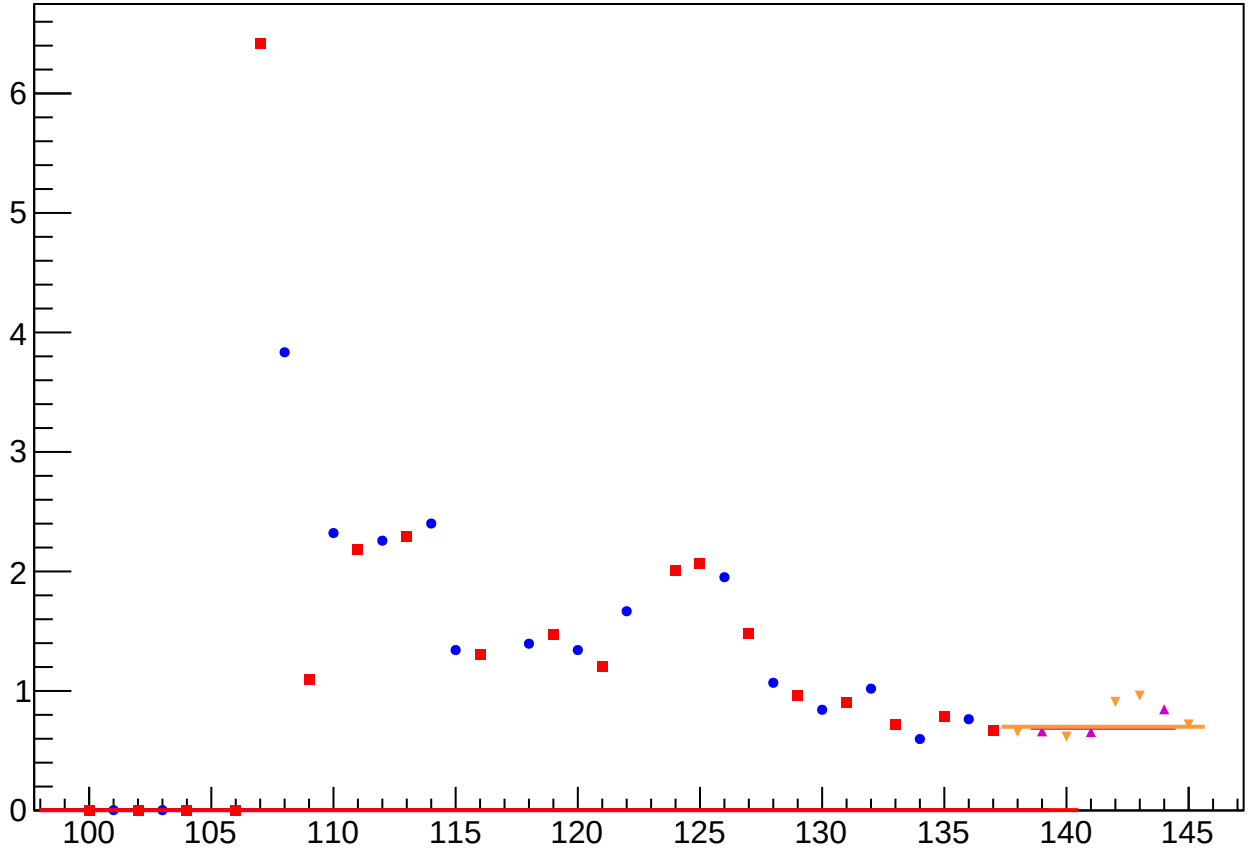
Right: 120.832+/-0.000 $\chi^2$/NDF: 138089570604348

In: 140.138+/-0.000 $\chi^2$/NDF:377411428739.3/18

Out: 104.220+/-0.000 $\chi^2$/NDF:1257564620947277

All: 120.827+/-0.000 $\chi^2$/NDF: 13812480811

# yield_cav4bY_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 10578723.1/15

Left Out: 0.701+/-0.000 $\chi^2$/NDF:146525.7/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 10266772.6/18

Left In: 0.692+/-0.000 $\chi^2$/NDF:46846.1/2

Left: 0.697+/-0.000 $\chi^2$/NDF: 193762.5/7

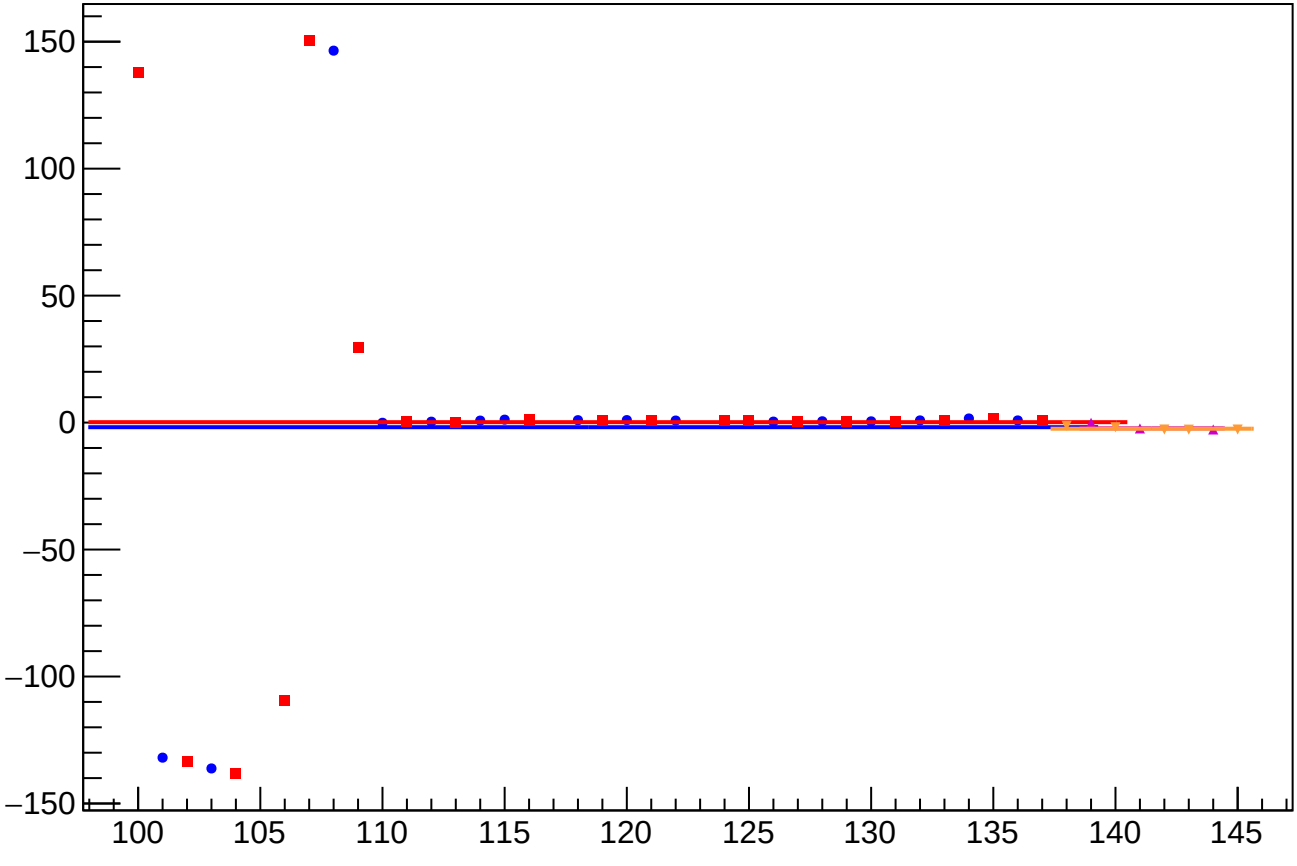
Right: 0.003+/-0.000 $\chi^2$/NDF: 20845702.5/34

In: 0.003+/-0.000 $\chi^2$/NDF:15035924.7/18

Out: 0.003+/-0.000 $\chi^2$/NDF:16177747.8/23

All: 0.003+/-0.000 $\chi^2$/NDF: 31213855.1/42

# yield_cav4cX_mean vs Slug, Sign Corrected




Right In: -1.818+/-0.000 $\chi^2$/NDF: 9887177310.2/15

Left Out: -2.405+/-0.000 $\chi^2$/NDF:3060888.8/4

Right Out: 0.165+/-0.000 $\chi^2$/NDF: 3611245020.0/18

Left In: -2.265+/-0.000 $\chi^2$/NDF:4000587.9/2

Left: -2.352+/-0.000 $\chi^2$/NDF: 7143739.4/7

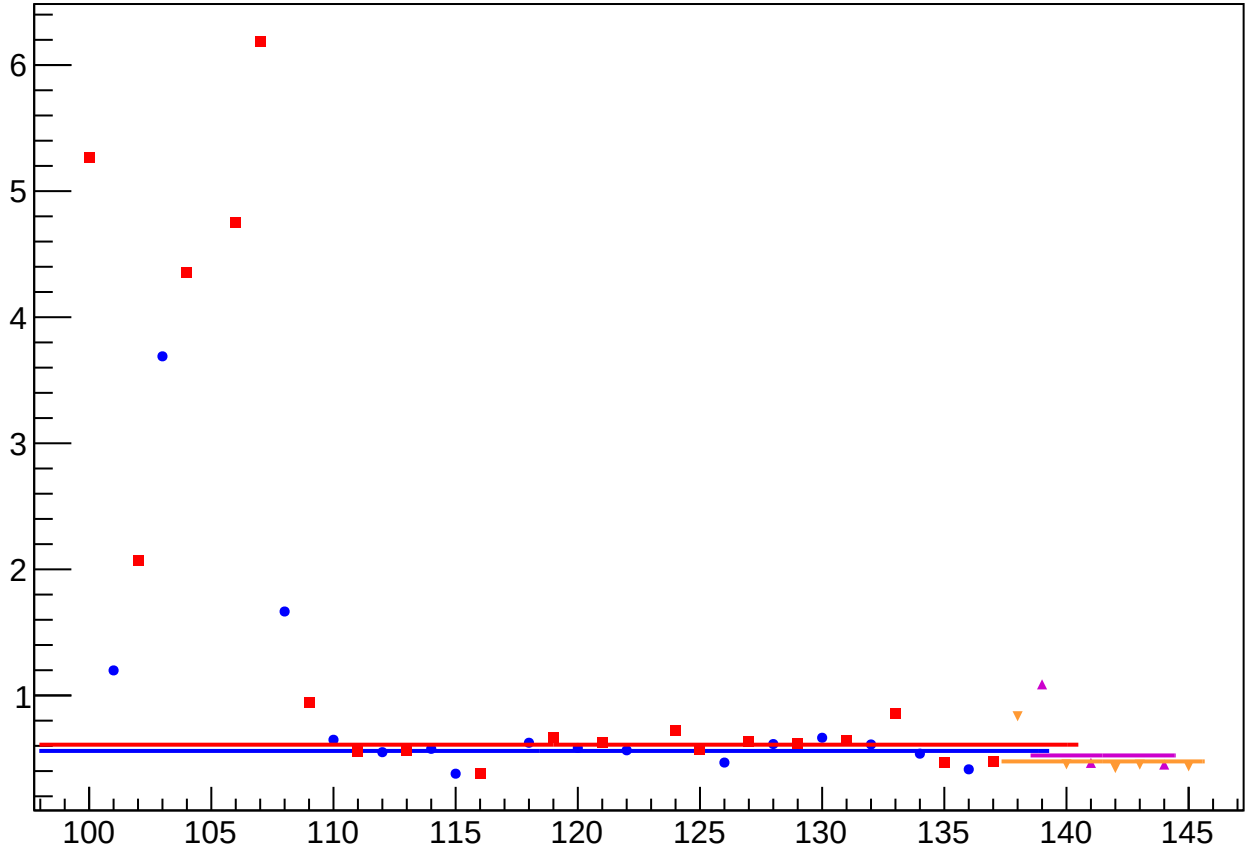
Right: -0.919+/-0.000 $\chi^2$/NDF: 13527173630.8/34

In: -1.950+/-0.000 $\chi^2$/NDF:9892129619.5/18

Out: -1.005+/-0.000 $\chi^2$/NDF:3654525125.4/23

All: -1.461+/-0.000 $\chi^2$/NDF: 13557235679.3/

# yield_cav4cX_rms vs Slug, Sign Corrected




Right In: 0.560+/-0.000 $\chi^2$/NDF: 1598439.5/15

Left Out: 0.477+/-0.000 $\chi^2$/NDF:270635.7/4

Right Out: 0.609+/-0.000 $\chi^2$/NDF: 2476010.3/18

Left In: 0.524+/-0.000 $\chi^2$/NDF:505161.9/2

Left: 0.494+/-0.000 $\chi^2$/NDF: 794694.9/7

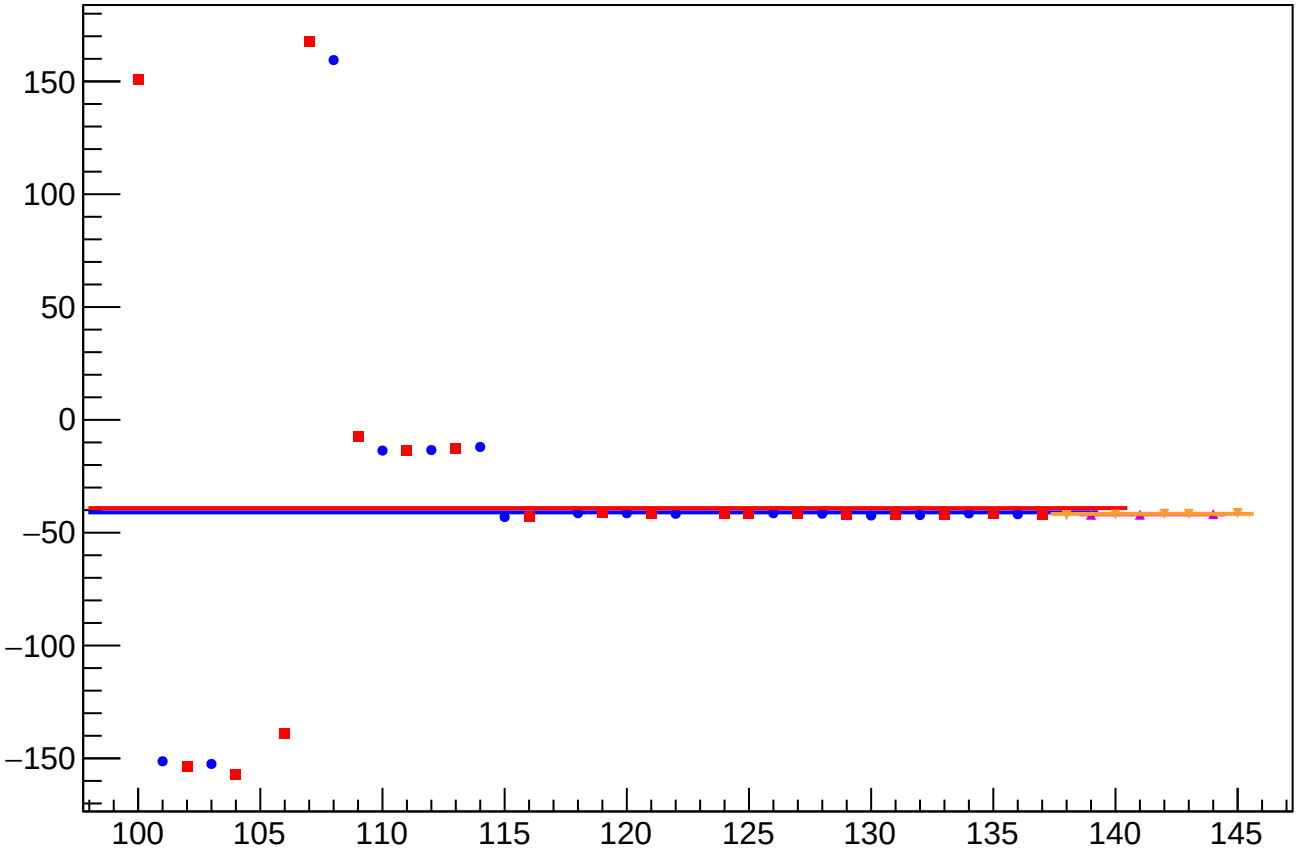
Right: 0.582+/-0.000 $\chi^2$/NDF: 4110324.4/34

In: 0.549+/-0.000 $\chi^2$/NDF:2115817.5/18

Out: 0.549+/-0.000 $\chi^2$/NDF:2961199.6/23

All: 0.549+/-0.000 $\chi^2$/NDF: 5077019.4/42

# yield_cav4cY_mean vs Slug, Sign Corrected




Right In: -40.987+/-0.000 $\chi^2$/NDF: 3449622021.8/15

Left Out: -41.649+/-0.000 $\chi^2$/NDF:2276475.0/4

Right Out: -39.101+/-0.000 $\chi^2$/NDF: 2480133442.0/18

Left In: -41.867+/-0.000 $\chi^2$/NDF:306284.5/2

Left: -41.729+/-0.000 $\chi^2$/NDF: 3065796.6/7

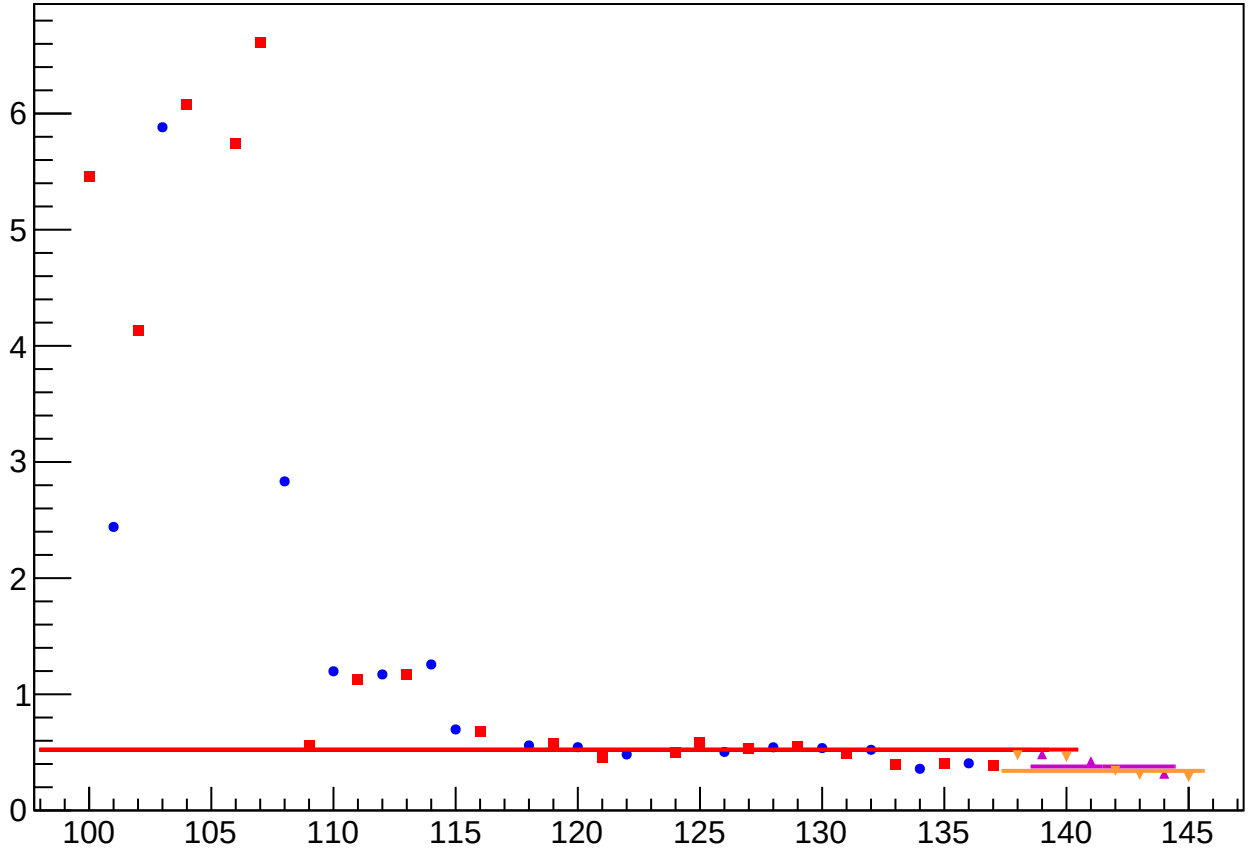
Right: -40.058+/-0.000 $\chi^2$/NDF: 5962079351.2/34

In: -41.396+/-0.000 $\chi^2$/NDF:3456565616.8/18

Out: -40.654+/-0.000 $\chi^2$/NDF:2553276484.3/23

All: -40.972+/-0.000 $\chi^2$/NDF: 6020655069.5/

# yield_cav4cY_rms vs Slug, Sign Corrected




Right In: 0.522+/-0.000 $\chi^2$/NDF: 2949327.6/15

Left Out: 0.341+/-0.000 $\chi^2$/NDF:279727.1/4

Right Out: 0.524+/-0.000 $\chi^2$/NDF: 3264460.0/18

Left In: 0.378+/-0.000 $\chi^2$/NDF:155037.7/2

Left: 0.354+/-0.000 $\chi^2$/NDF: 463072.5/7

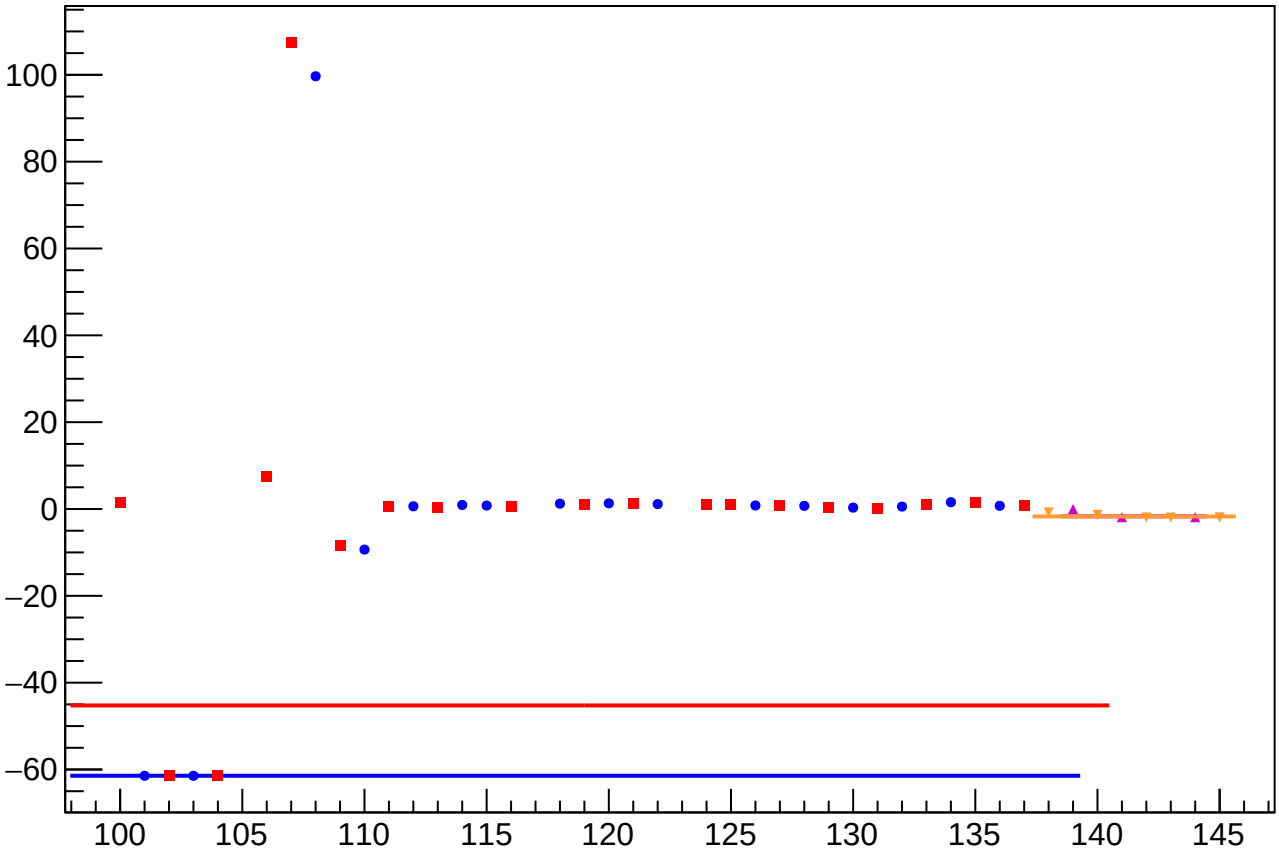
Right: 0.523+/-0.000 $\chi^2$/NDF: 6213857.4/34

In: 0.455+/-0.000 $\chi^2$/NDF:3458852.3/18

Out: 0.412+/-0.000 $\chi^2$/NDF:4275999.2/23

All: 0.431+/-0.000 $\chi^2$/NDF: 7807135.8/42

# yield_cav4dX_mean vs Slug, Sign Corrected




Right In: -61.436+/-0.000 $\chi^2$/NDF: 273496278670.9/15

Left Out: -1.713+/-0.000 $\chi^2$/NDF:2286563.1/4

Right Out: -45.245+/-0.000 $\chi^2$/NDF: 357870328061478.0/18

Left In: -1.683+/-0.000 $\chi^2$/NDF:3235001.3/2

Left: -1.702+/-0.000 $\chi^2$/NDF: 5527071.9/7

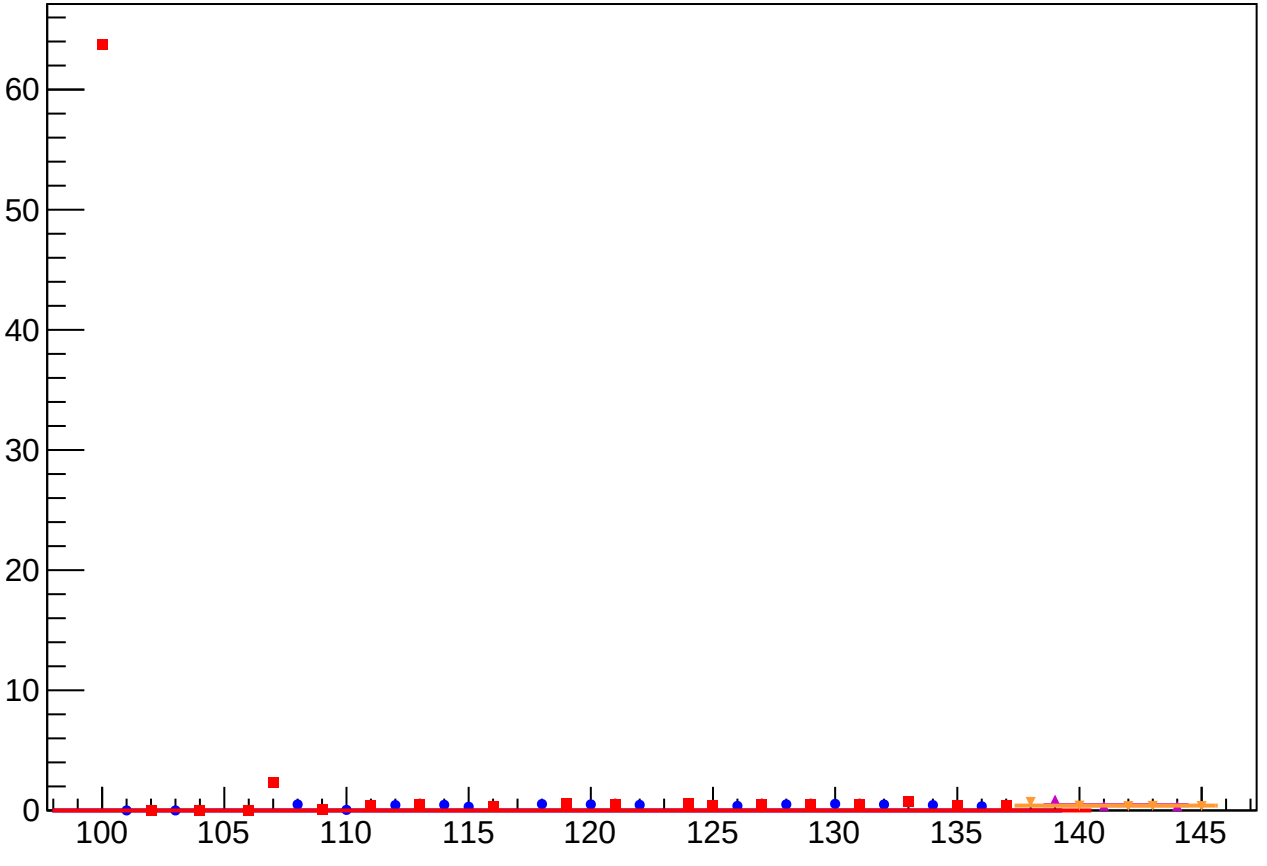
Right: -52.749+/-0.000 $\chi^2$/NDF: 409121918007227

In: -61.434+/-0.000 $\chi^2$/NDF:307976358718.6/18

Out: -45.243+/-0.000 $\chi^2$/NDF:357899949935584.9

All: -52.747+/-0.000 $\chi^2$/NDF: 409187816037

# yield_cav4dX_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 9156181.6/15

Left Out: 0.405+/-0.000 $\chi^2$/NDF:275527.2/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 9345109.5/18

Left In: 0.439+/-0.000 $\chi^2$/NDF:497702.4/2

Left: 0.418+/-0.000 $\chi^2$/NDF: 787283.2/7

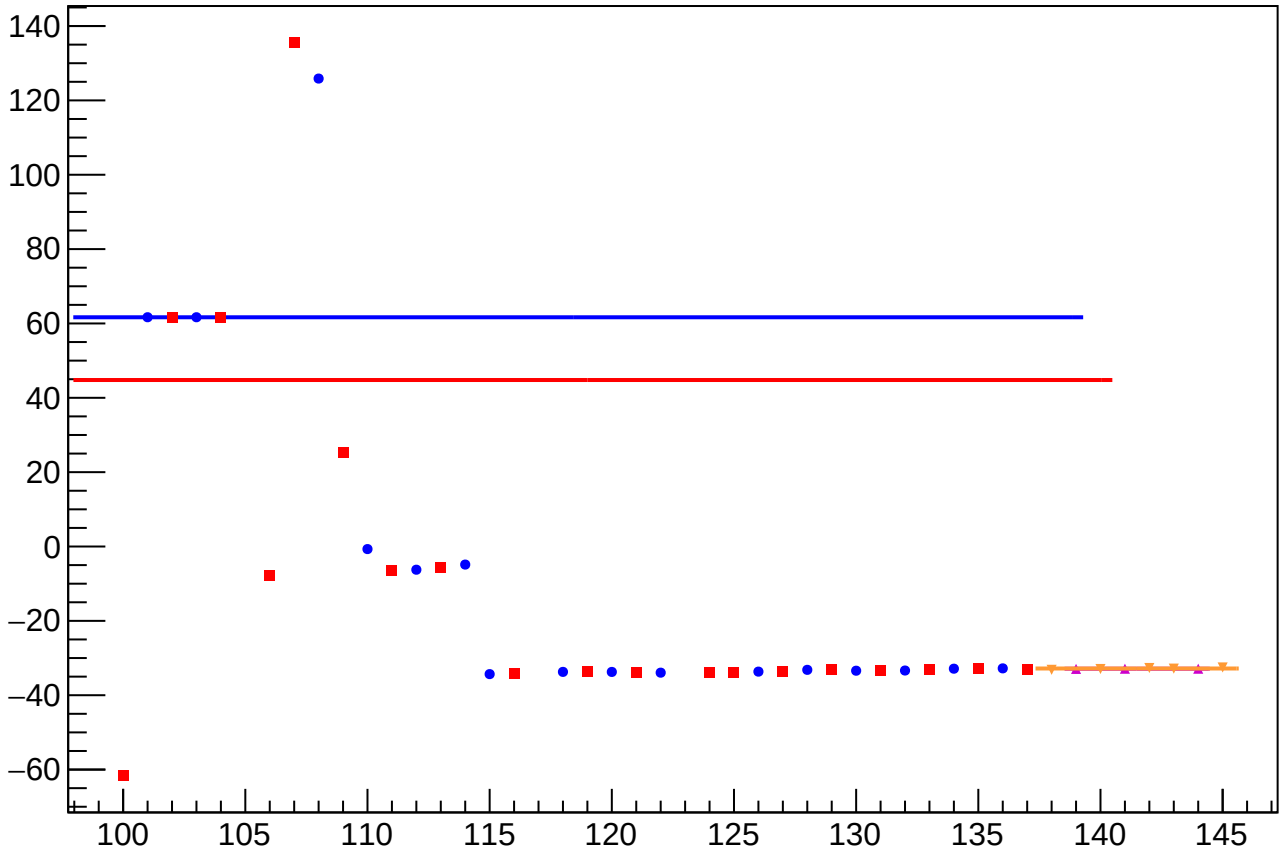
Right: 0.001+/-0.000 $\chi^2$/NDF: 18501293.3/34

In: 0.001+/-0.000 $\chi^2$/NDF:13358257.5/18

Out: 0.001+/-0.000 $\chi^2$/NDF:14714175.6/23

All: 0.001+/-0.000 $\chi^2$/NDF: 28072433.4/42

# yield_cav4dY_mean vs Slug, Sign Corrected




Right In: 61.662+/-0.000 $\chi^2$/NDF: 369463062074.0/15

Left Out: -32.813+/-0.000 $\chi^2$/NDF:1962259.4/4

Right Out: 44.786+/-0.000 $\chi^2$/NDF: 366094778229951.8/18

Left In: -32.882+/-0.000 $\chi^2$/NDF:15280.9/2

Left: -32.841+/-0.000 $\chi^2$/NDF: 2059356.6/7

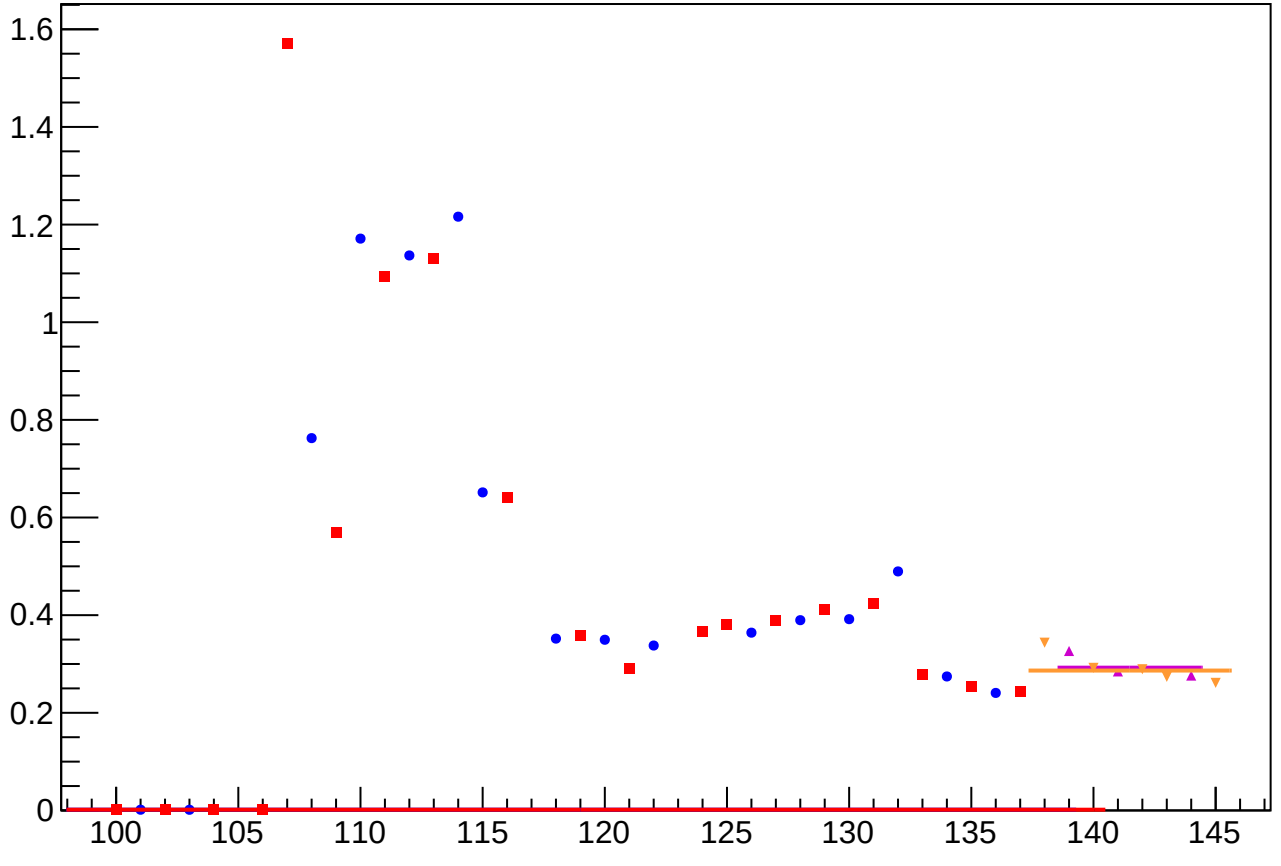
Right: 52.689+/-0.000 $\chi^2$/NDF: 417568081486015.0

In: 61.654+/-0.000 $\chi^2$/NDF:631015117254.3/18

Out: 44.777+/-0.000 $\chi^2$/NDF:366350063871919.0

All: 52.680+/-0.000 $\chi^2$/NDF: 4180922733610

# yield_cav4dY_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 11024564.1/15

Left Out: 0.287+/-0.000 $\chi^2$/NDF:59505.1/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 10559220.1/18

Left In: 0.292+/-0.000 $\chi^2$/NDF:24958.3/2

Left: 0.289+/-0.000 $\chi^2$/NDF: 85666.8/7

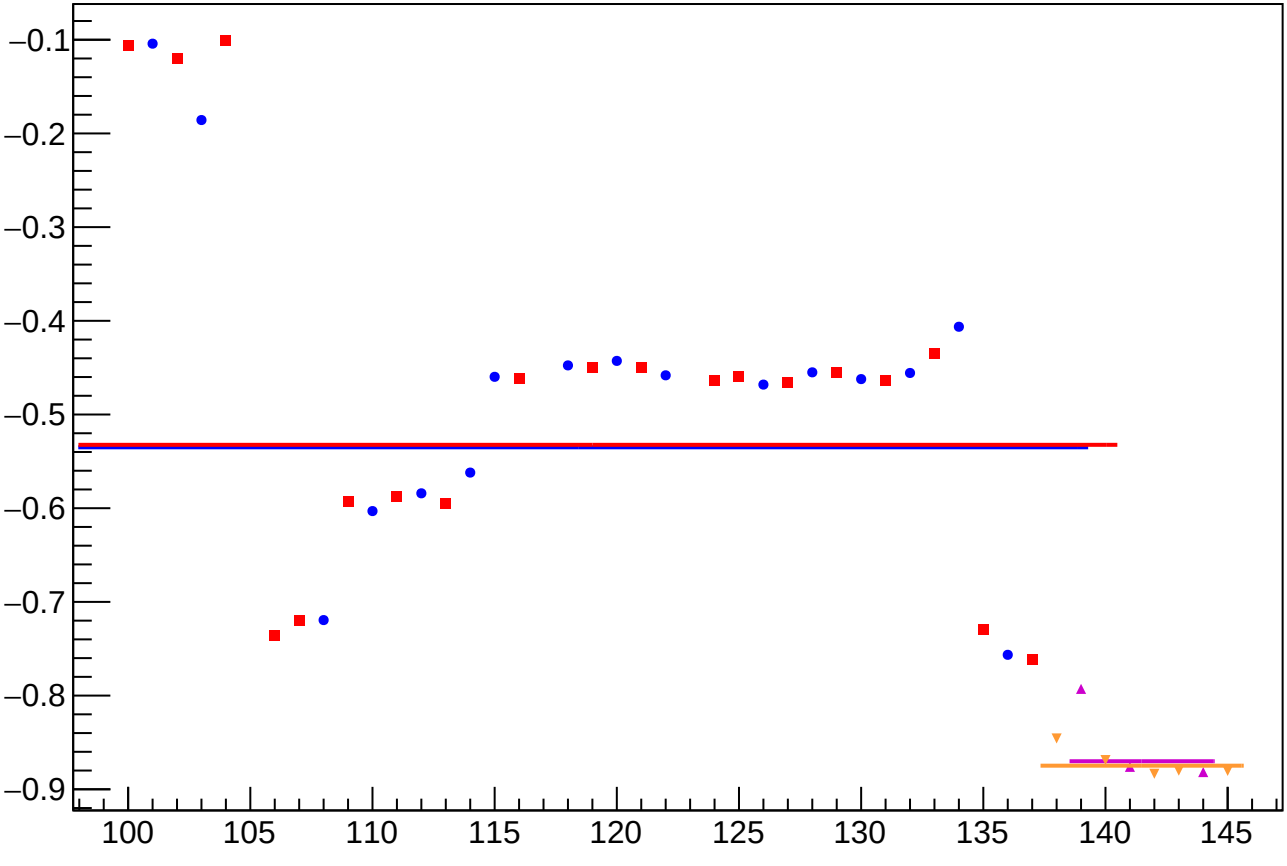
Right: 0.002+/-0.000 $\chi^2$/NDF: 21583912.3/34

In: 0.002+/-0.000 $\chi^2$/NDF:16002798.8/18

Out: 0.002+/-0.000 $\chi^2$/NDF:17506455.1/23

All: 0.002+/-0.000 $\chi^2$/NDF: 33509481.8/42

# yield_bpm4aX_mean vs Slug, Sign Corrected




Right In: -0.535+/-0.000 $\chi^2$/NDF: 300846309.5/15

Left Out: -0.875+/-0.000 $\chi^2$/NDF:924595.9/4

Right Out: -0.532+/-0.000 $\chi^2$/NDF: 214124648.5/18

Left In: -0.870+/-0.000 $\chi^2$/NDF:3502127.5/2

Left: -0.873+/-0.000 $\chi^2$/NDF: 4496832.9/7

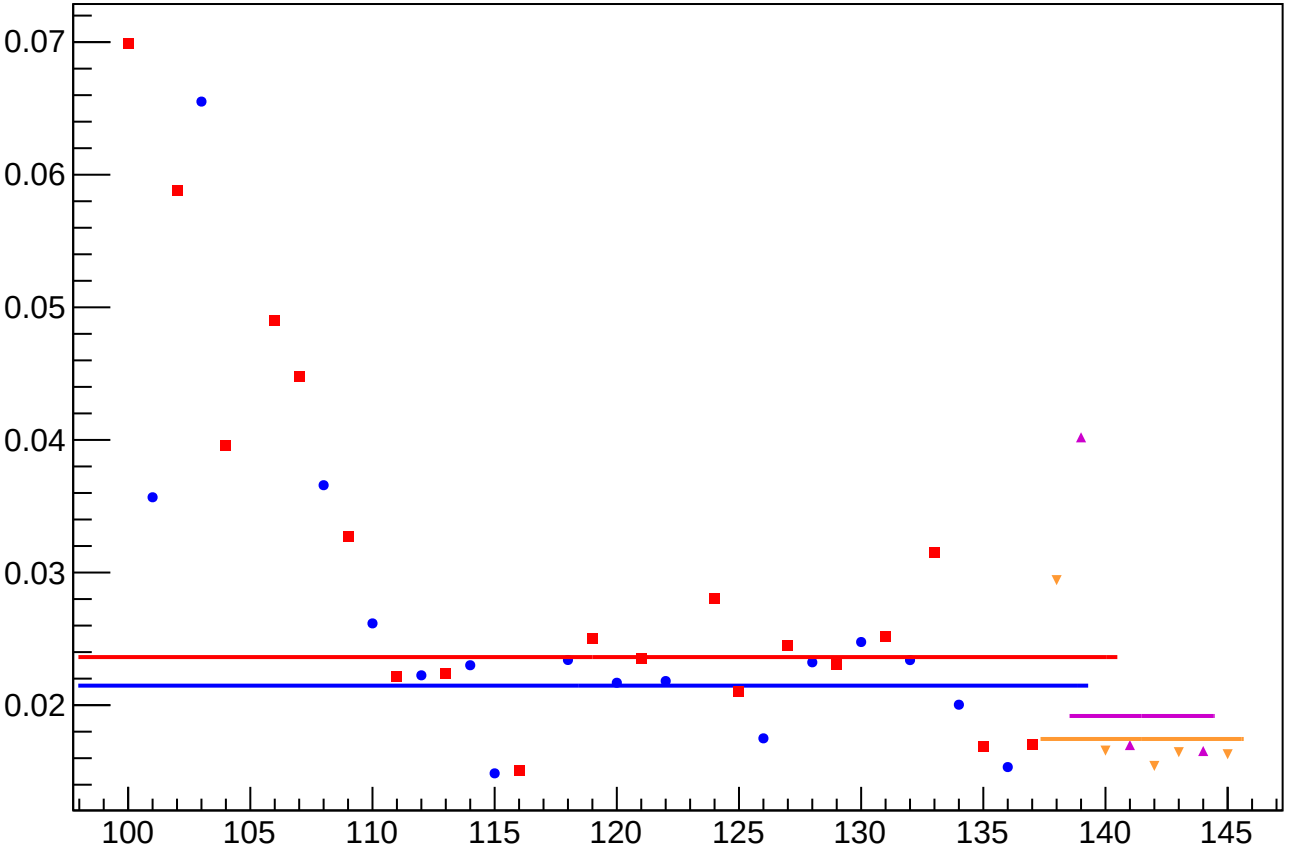
Right: -0.534+/-0.000 $\chi^2$/NDF: 515008587.7/34

In: -0.636+/-0.000 $\chi^2$/NDF:697966395.9/18

Out: -0.688+/-0.000 $\chi^2$/NDF:747714318.6/23

All: -0.663+/-0.000 $\chi^2$/NDF: 1469210470.0/4

# yield_bpm4aX_rms vs Slug, Sign Corrected




Right In: 0.021+/-0.000 $\chi^2$/NDF: 1153987.6/15

Left Out: 0.017+/-0.000 $\chi^2$/NDF:237759.4/4

Right Out: 0.024+/-0.000 $\chi^2$/NDF: 1277268.6/18

Left In: 0.019+/-0.000 $\chi^2$/NDF:513467.8/2

Left: 0.018+/-0.000 $\chi^2$/NDF: 770061.4/7

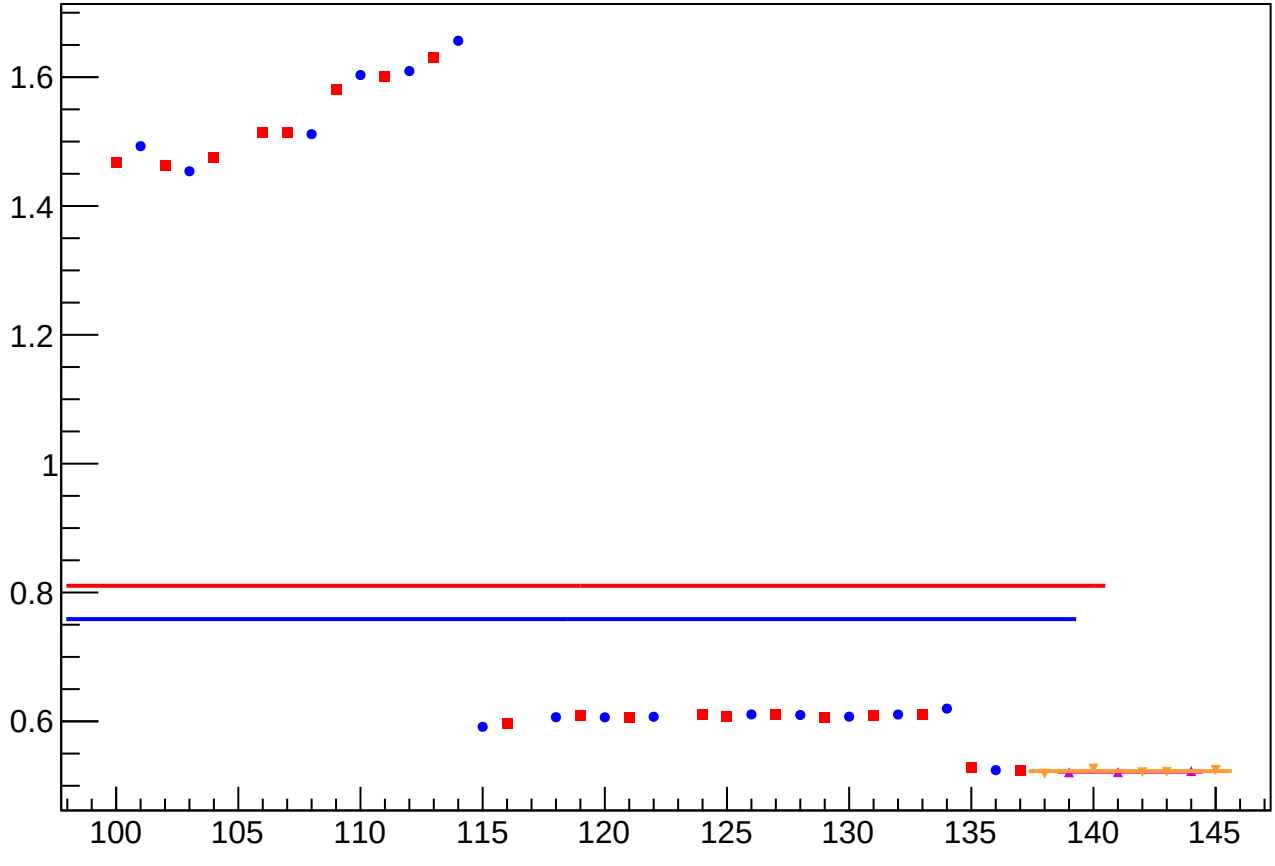
Right: 0.022+/-0.000 $\chi^2$/NDF: 2481109.4/34

In: 0.021+/-0.000 $\chi^2$/NDF:1704153.7/18

Out: 0.021+/-0.000 $\chi^2$/NDF:1861465.9/23

All: 0.021+/-0.000 $\chi^2$/NDF: 3565643.4/42

# yield_bpm4aY_mean vs Slug, Sign Corrected




Right In: 0.759+/-0.000 $\chi^2$/NDF: 4304169889.2/15

Left Out: 0.523+/-0.000 $\chi^2$/NDF:219790.1/4

Right Out: 0.810+/-0.000 $\chi^2$/NDF: 4769381416.8/18

Left In: 0.522+/-0.000 $\chi^2$/NDF:14951.0/2

Left: 0.522+/-0.000 $\chi^2$/NDF: 246038.2/7

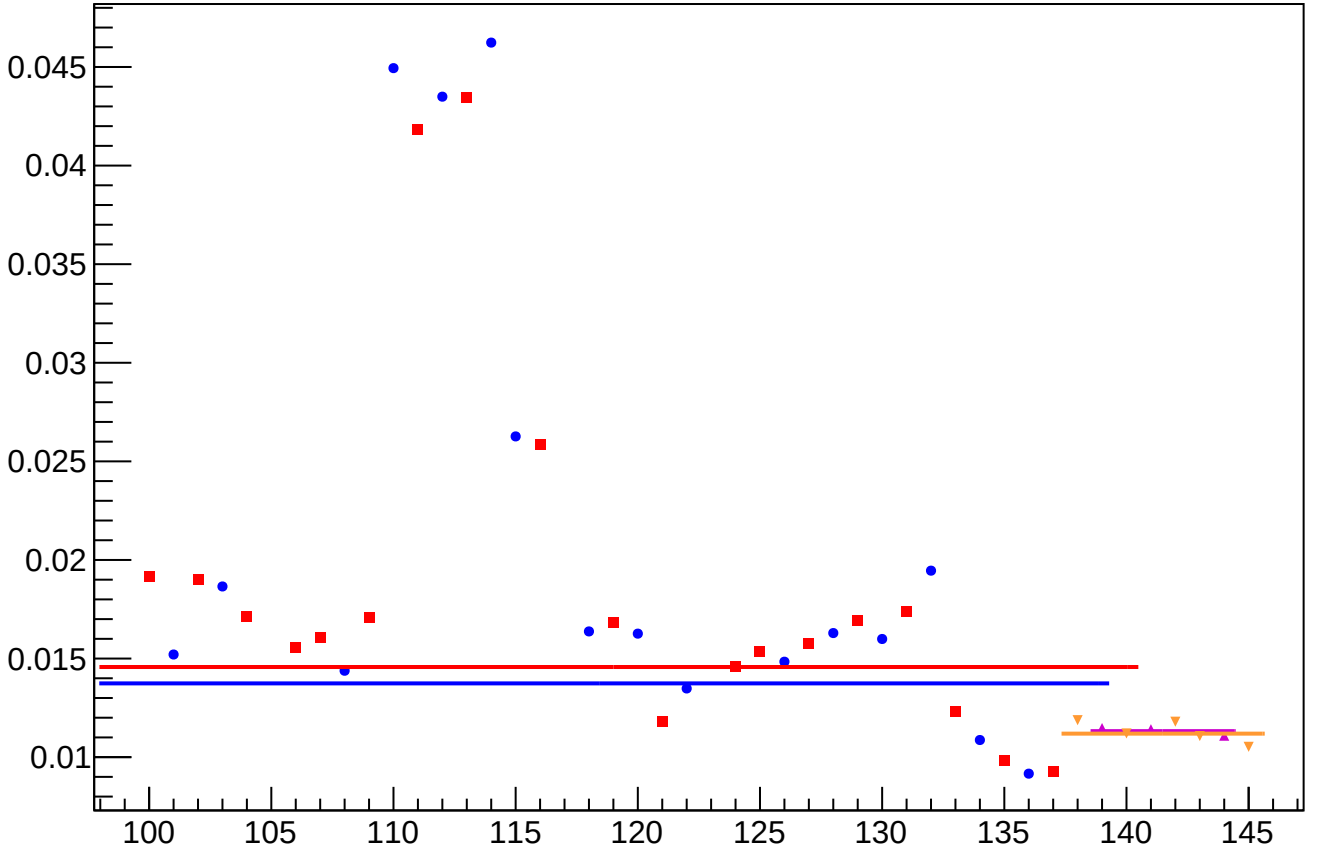
Right: 0.784+/-0.000 $\chi^2$/NDF: 9114268233.2/34

In: 0.667+/-0.000 $\chi^2$/NDF:4987215597.4/18

Out: 0.669+/-0.000 $\chi^2$/NDF:5961884554.4/23

All: 0.668+/-0.000 $\chi^2$/NDF: 10949221608.6/4

# yield_bpm4aY_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1649769.2/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:13713.0/4

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 1455054.4/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:1190.3/2

Left: 0.011+/-0.000 $\chi^2$/NDF: 15278.1/7

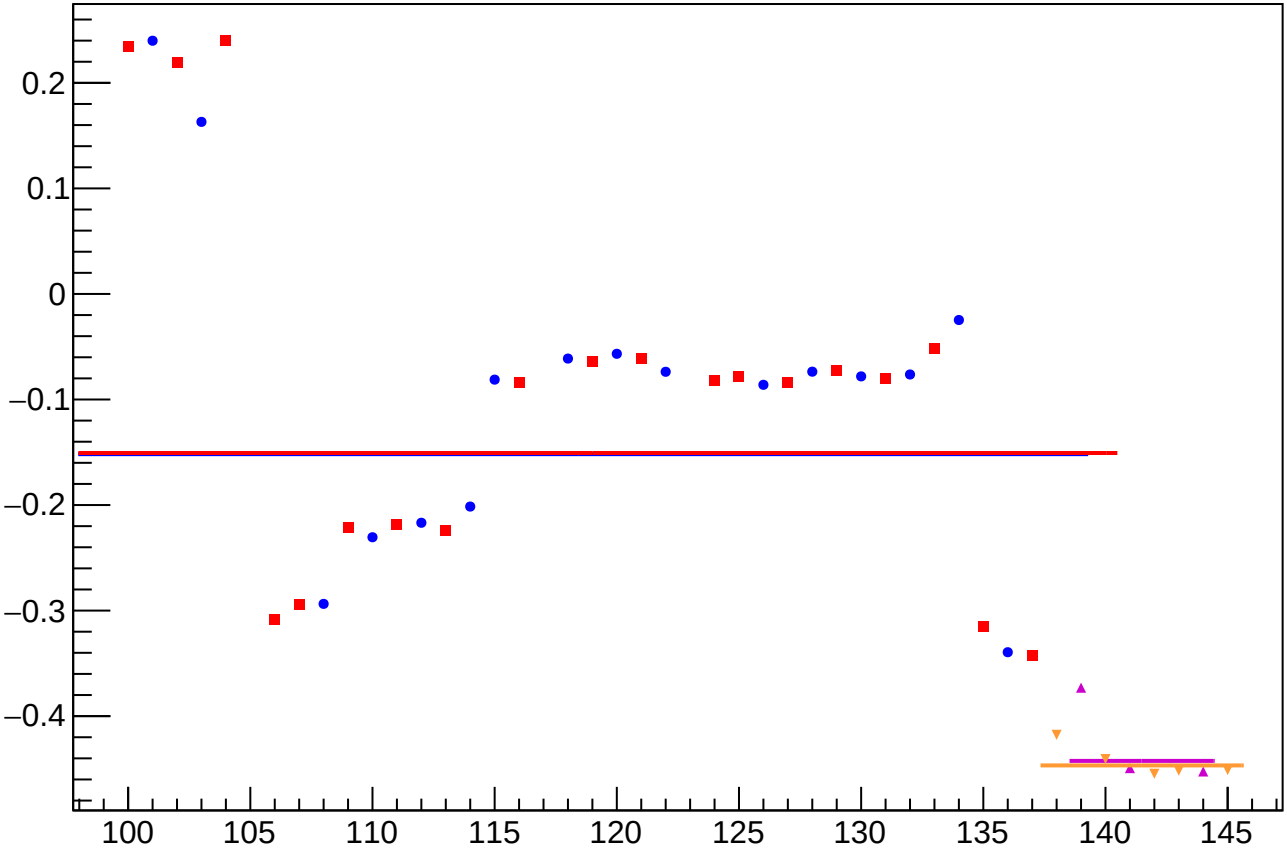
Right: 0.014+/-0.000 $\chi^2$/NDF: 3125814.5/34

In: 0.013+/-0.000 $\chi^2$/NDF:1793627.2/18

Out: 0.013+/-0.000 $\chi^2$/NDF:1797701.7/23

All: 0.013+/-0.000 $\chi^2$/NDF: 3591966.9/42

# yield_bpm4eX_mean vs Slug, Sign Corrected




Right In: -0.152+/-0.000 $\chi^2$/NDF: 276791709.3/15

Left Out: -0.447+/-0.000 $\chi^2$/NDF:959444.2/4

Right Out: -0.151+/-0.000 $\chi^2$/NDF: 199410234.4/18

Left In: -0.442+/-0.000 $\chi^2$/NDF:3459071.4/2

Left: -0.445+/-0.000 $\chi^2$/NDF: 4484134.0/7

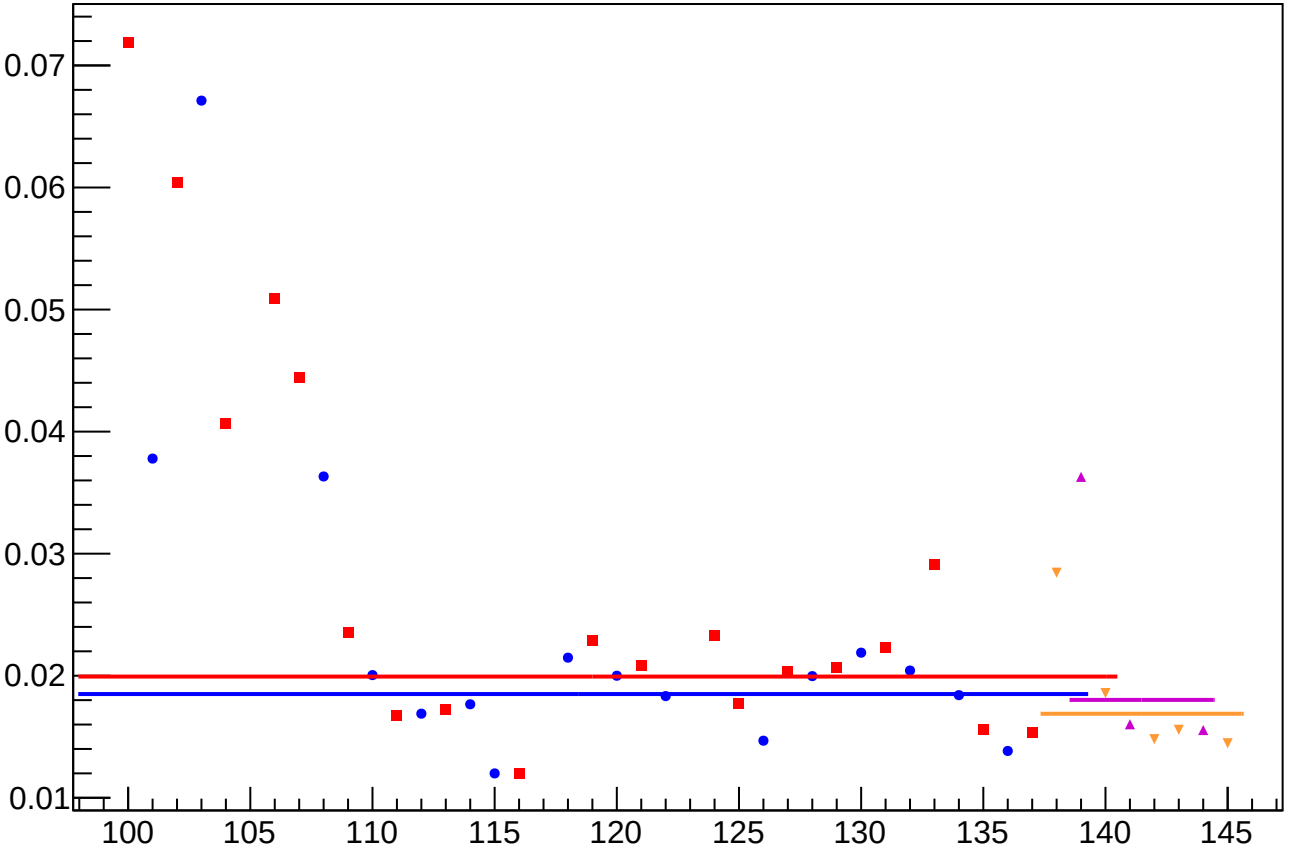
Right: -0.151+/-0.000 $\chi^2$/NDF: 476210345.8/34

In: -0.231+/-0.000 $\chi^2$/NDF:637151241.7/18

Out: -0.269+/-0.000 $\chi^2$/NDF:681331612.7/23

All: -0.251+/-0.000 $\chi^2$/NDF: 1334177363.9/4

# yield_bpm4eX_rms vs Slug, Sign Corrected




Right In: 0.018+/-0.000 $\chi^2$/NDF: 1372359.1/15

Left Out: 0.017+/-0.000 $\chi^2$/NDF:283396.4/4

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 1547561.3/18

Left In: 0.018+/-0.000 $\chi^2$/NDF:479071.4/2

Left: 0.017+/-0.000 $\chi^2$/NDF: 771639.6/7

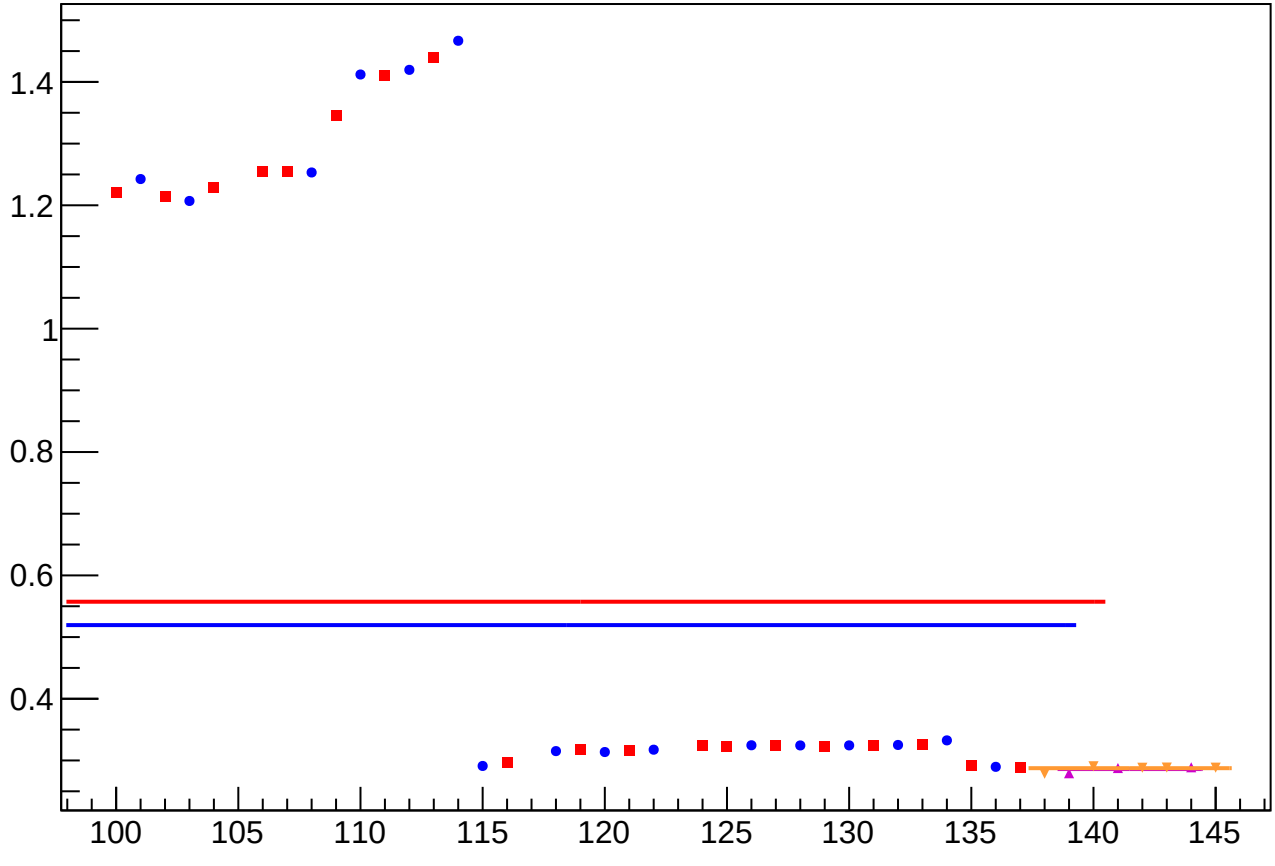
Right: 0.019+/-0.000 $\chi^2$/NDF: 2949710.8/34

In: 0.018+/-0.000 $\chi^2$/NDF:1853365.4/18

Out: 0.019+/-0.000 $\chi^2$/NDF:1932864.0/23

All: 0.019+/-0.000 $\chi^2$/NDF: 3788836.2/42

# yield_bpm4eY_mean vs Slug, Sign Corrected




Right In: 0.519+/-0.000 $\chi^2$/NDF: 6319132275.3/15

Left Out: 0.287+/-0.000 $\chi^2$/NDF:411775.6/4

Right Out: 0.557+/-0.000 $\chi^2$/NDF: 6746144835.5/18

Left In: 0.286+/-0.000 $\chi^2$/NDF:332026.4/2

Left: 0.287+/-0.000 $\chi^2$/NDF: 768397.9/7

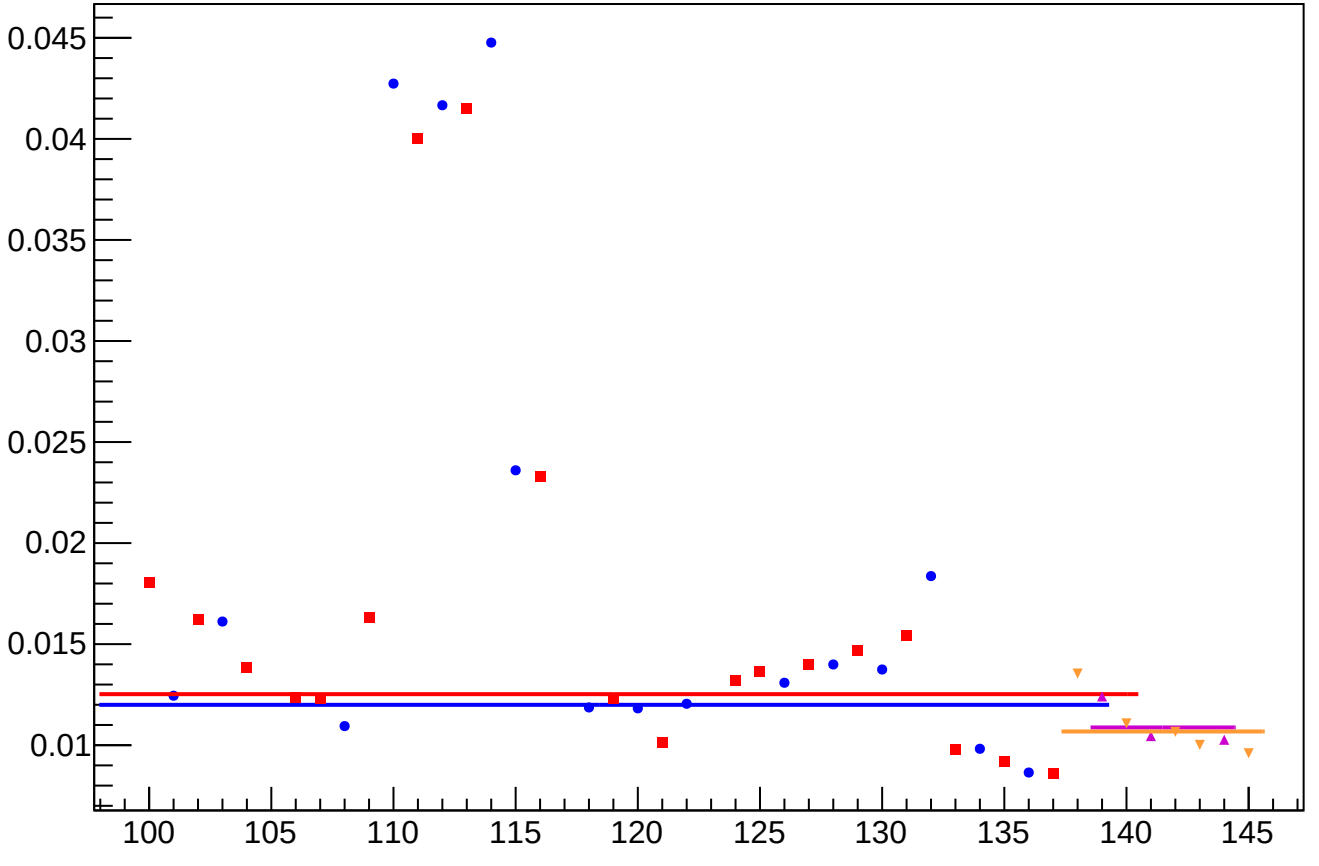
Right: 0.538+/-0.000 $\chi^2$/NDF: 13094140546.7/34

In: 0.441+/-0.000 $\chi^2$/NDF:7078672050.7/18

Out: 0.439+/-0.000 $\chi^2$/NDF:7990281686.5/23

All: 0.440+/-0.000 $\chi^2$/NDF: 15069039658.6/4

# 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:95209.9/4

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 1434210.5/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:33776.0/2

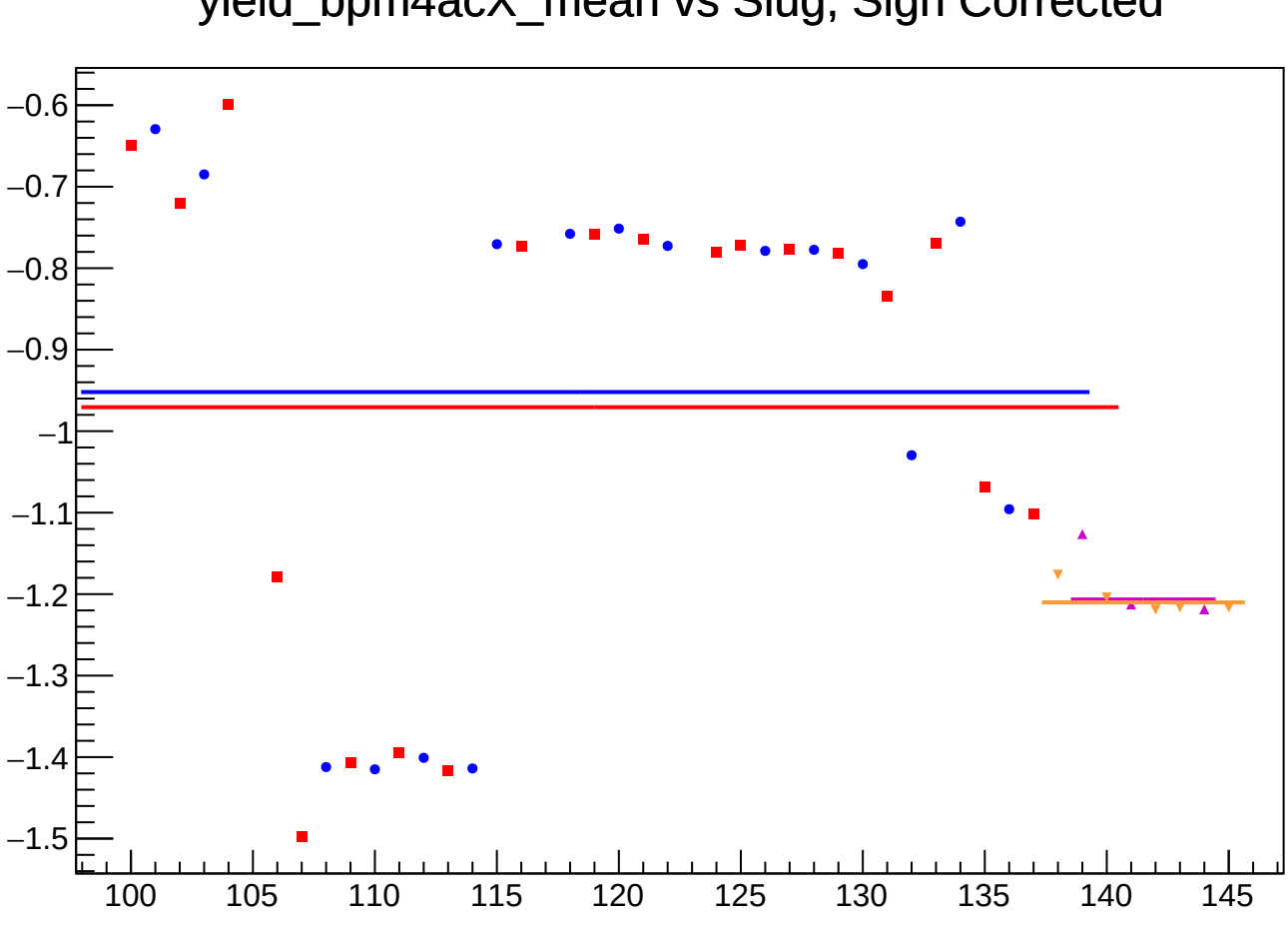
Left: 0.011+/-0.000 $\chi^2$/NDF: 129971.0/7

Right: 0.012+/-0.000 $\chi^2$/NDF: 2937026.7/34

In: 0.012+/-0.000 $\chi^2$/NDF:1560365.9/18

Out: 0.012+/-0.000 $\chi^2$/NDF:1645988.5/23

All: 0.012+/-0.000 $\chi^2$/NDF: 3206971.1/42




Right In: -0.952+/-0.000 $\chi^2$/NDF: 699468857.6/15

Left Out: -1.210+/-0.000 $\chi^2$/NDF:1263658.5/4

Right Out: -0.971+/-0.000 $\chi^2$/NDF: 714505458.0/18

Left In: -1.207+/-0.000 $\chi^2$/NDF:3971319.3/2

Left: -1.209+/-0.000 $\chi^2$/NDF: 5277554.6/7

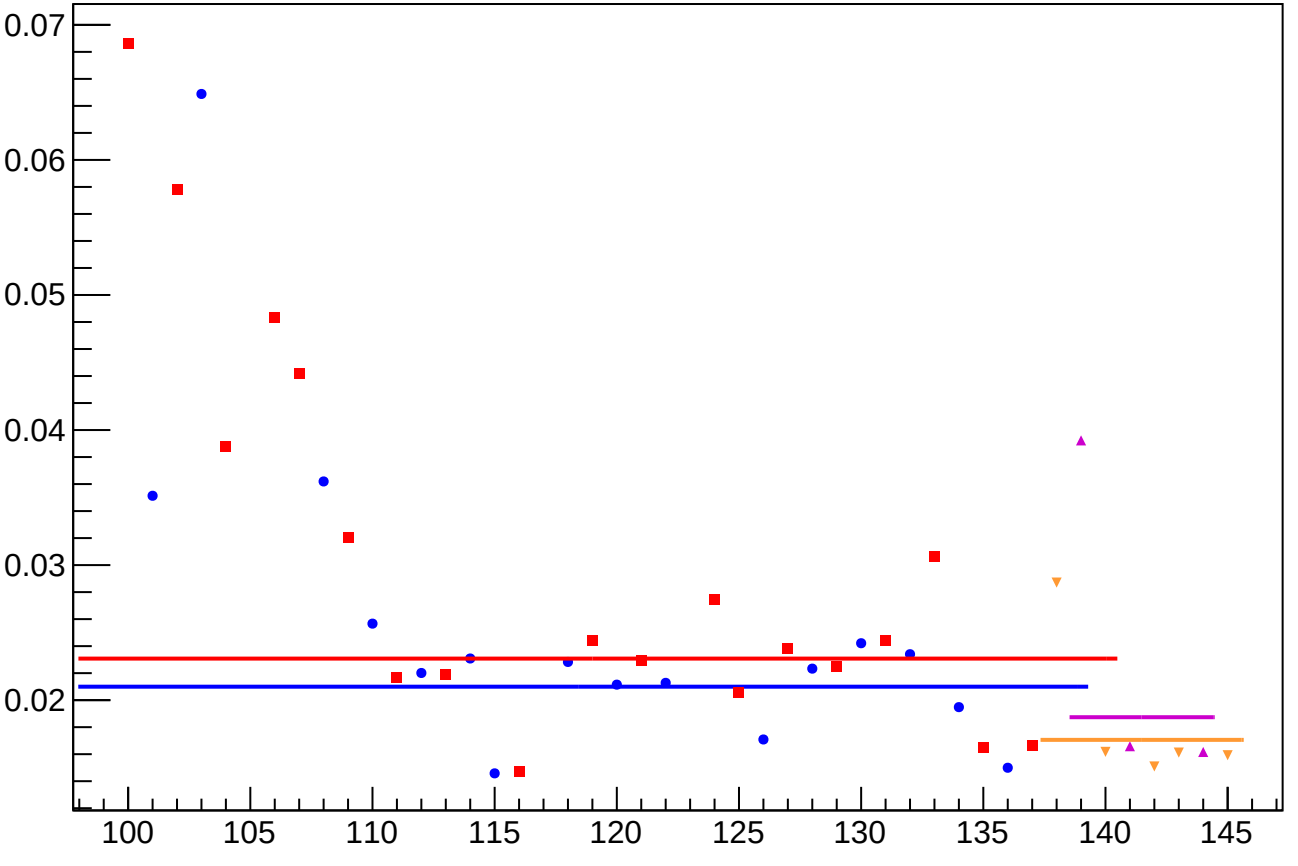
Right: -0.961+/-0.000 $\chi^2$/NDF: 1415910427.1/34

In: -1.029+/-0.000 $\chi^2$/NDF:941354012.0/18

Out: -1.080+/-0.000 $\chi^2$/NDF:988463951.8/23

All: -1.056+/-0.000 $\chi^2$/NDF: 1953206310.9/4

# yield_bpm4acX_rms vs Slug, Sign Corrected




Right In: 0.021+/-0.000 $\chi^2$/NDF: 1166992.9/15

Left Out: 0.017+/-0.000 $\chi^2$/NDF:236301.6/4

Right Out: 0.023+/-0.000 $\chi^2$/NDF: 1281311.4/18

Left In: 0.019+/-0.000 $\chi^2$/NDF:512782.2/2

Left: 0.018+/-0.000 $\chi^2$/NDF: 767556.0/7

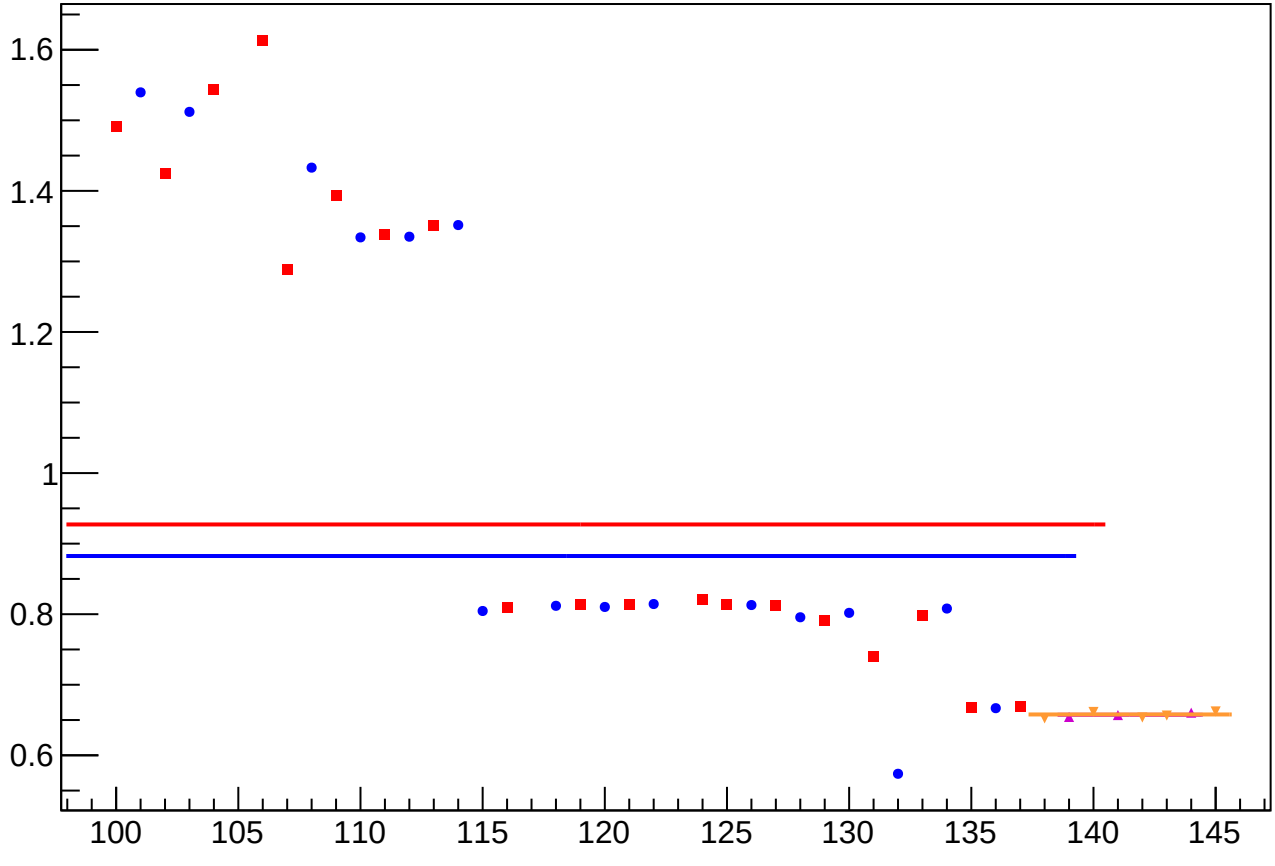
Right: 0.022+/-0.000 $\chi^2$/NDF: 2496865.9/34

In: 0.020+/-0.000 $\chi^2$/NDF:1717293.0/18

Out: 0.020+/-0.000 $\chi^2$/NDF:1861728.9/23

All: 0.020+/-0.000 $\chi^2$/NDF: 3579032.5/42

# yield_bpm4acY_mean vs Slug, Sign Corrected




Right In: 0.882+/-0.000 $\chi^2$/NDF: 2784156746.4/15

Left Out: 0.658+/-0.000 $\chi^2$/NDF:447683.0/4

Right Out: 0.927+/-0.000 $\chi^2$/NDF: 2762998321.3/18

Left In: 0.657+/-0.000 $\chi^2$/NDF:122421.4/2

Left: 0.658+/-0.000 $\chi^2$/NDF: 572867.5/7

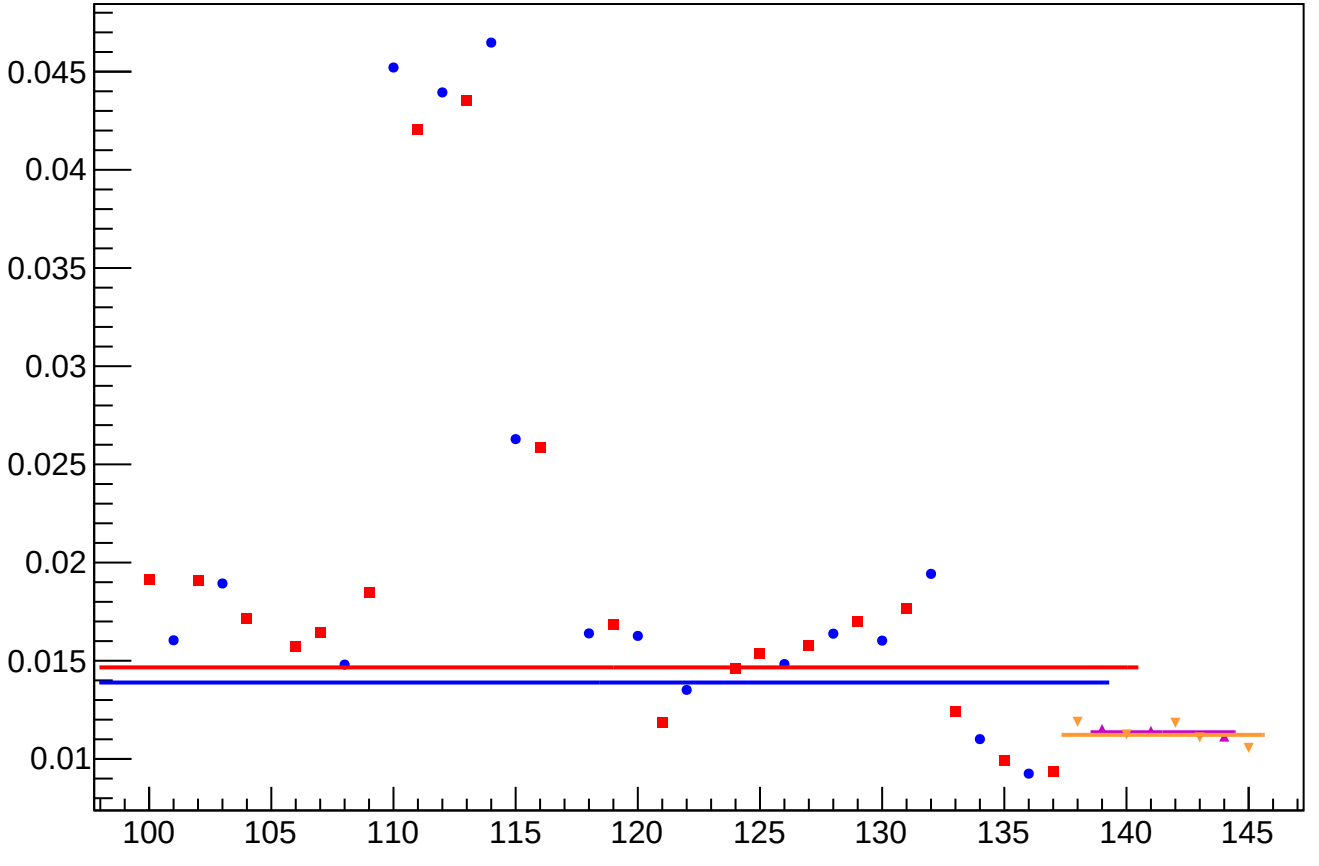
Right: 0.904+/-0.000 $\chi^2$/NDF: 5576917007.9/34

In: 0.795+/-0.000 $\chi^2$/NDF:3391676684.0/18

Out: 0.794+/-0.000 $\chi^2$/NDF:3795804387.0/23

All: 0.794+/-0.000 $\chi^2$/NDF: 7187482508.7/42

# yield_bpm4acY_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1646691.8/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:13442.4/4

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 1467025.6/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:1091.8/2

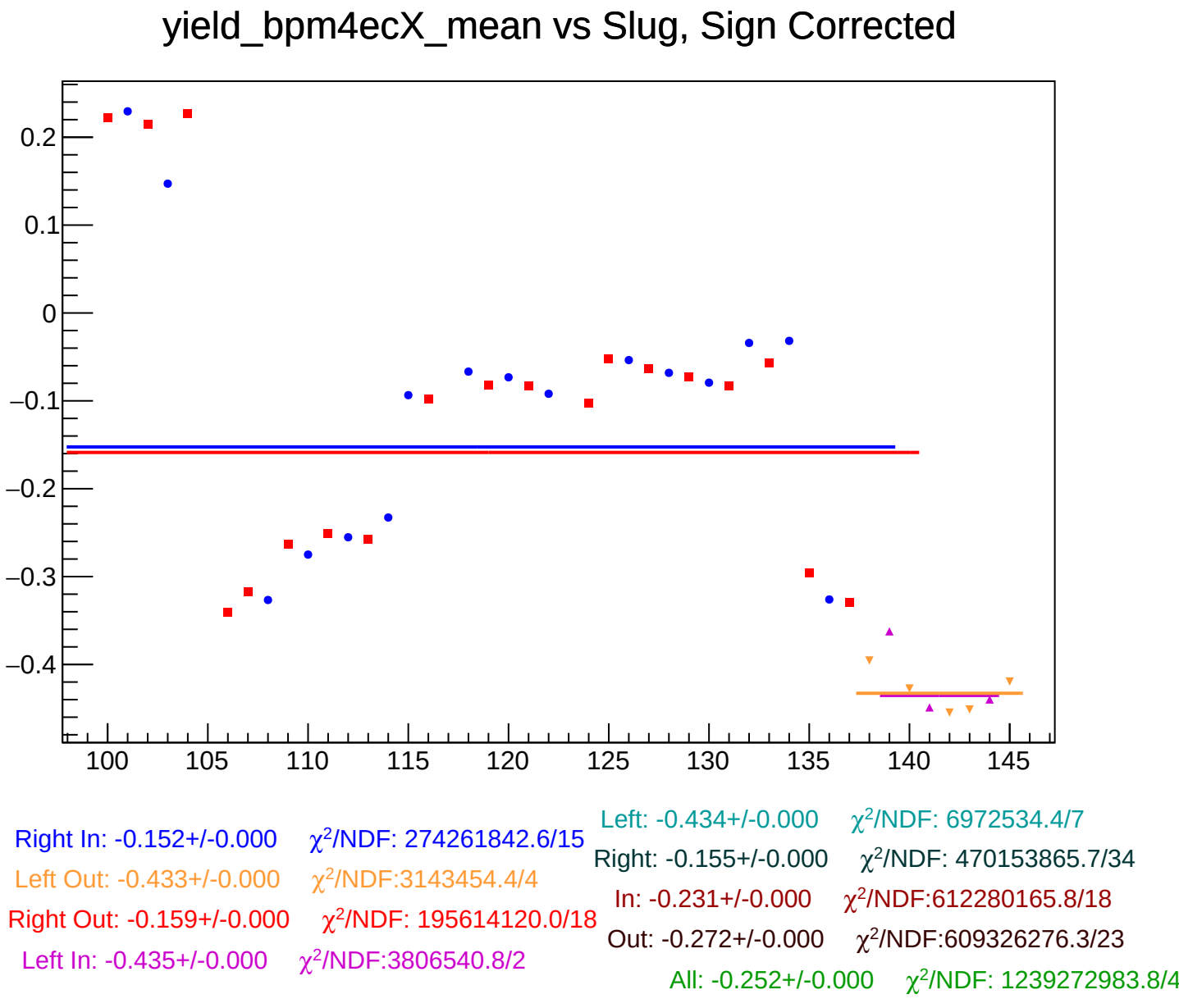
Left: 0.011+/-0.000 $\chi^2$/NDF: 14936.5/7

Right: 0.014+/-0.000 $\chi^2$/NDF: 3131409.7/34

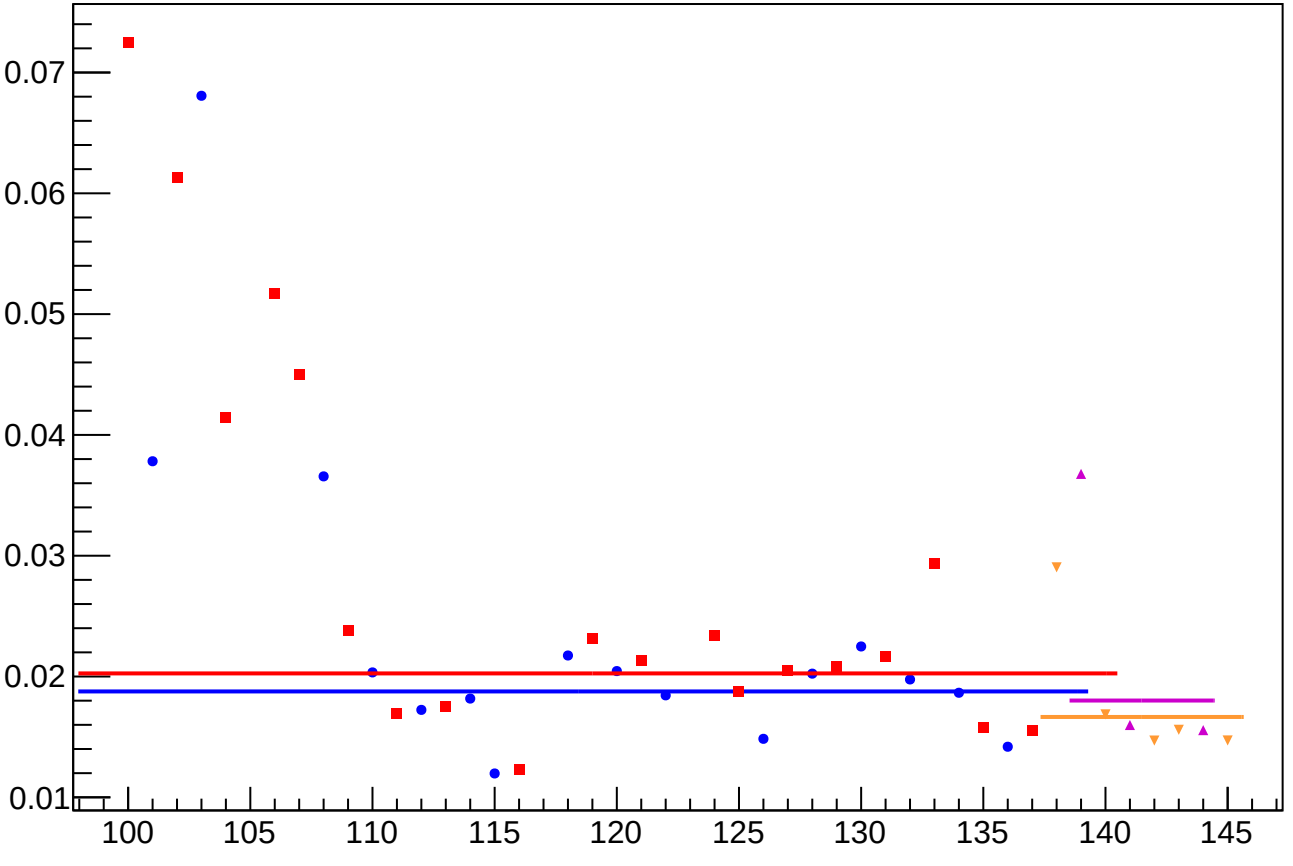
In: 0.013+/-0.000 $\chi^2$/NDF:1801758.4/18

Out: 0.013+/-0.000 $\chi^2$/NDF:1816739.8/23

All: 0.013+/-0.000 $\chi^2$/NDF: 3618725.5/42


yield_bpm4ecX_mean vs Slug, Sign Corrected
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
100
105
110
115
120
125
130
135
140
145
Right In: -0.152+/-0.000 χ²/NDF: 274261842.6/15
Left Out: -0.433+/-0.000 χ²/NDF:3143454.4/4
Right Out: -0.159+/-0.000 χ²/NDF: 195614120.0/18
Left In: -0.435+/-0.000 χ²/NDF:3806540.8/2
Left: -0.434+/-0.000 χ²/NDF: 6972534.4/7
Right: -0.155+/-0.000 χ²/NDF: 470153865.7/34
In: -0.231+/-0.000 χ²/NDF:612280165.8/18
Out: -0.272+/-0.000 χ²/NDF:609326276.3/23
All: -0.252+/-0.000 χ²/NDF: 1239272983.8/4

# yield_bpm4ecX_rms vs Slug, Sign Corrected




Right In: 0.019+/-0.000 $\chi^2$/NDF: 1349412.3/15

Left Out: 0.017+/-0.000 $\chi^2$/NDF:282511.6/4

Right Out: 0.020+/-0.000 $\chi^2$/NDF: 1529624.9/18

Left In: 0.018+/-0.000 $\chi^2$/NDF:489682.7/2

Left: 0.017+/-0.000 $\chi^2$/NDF: 785392.3/7

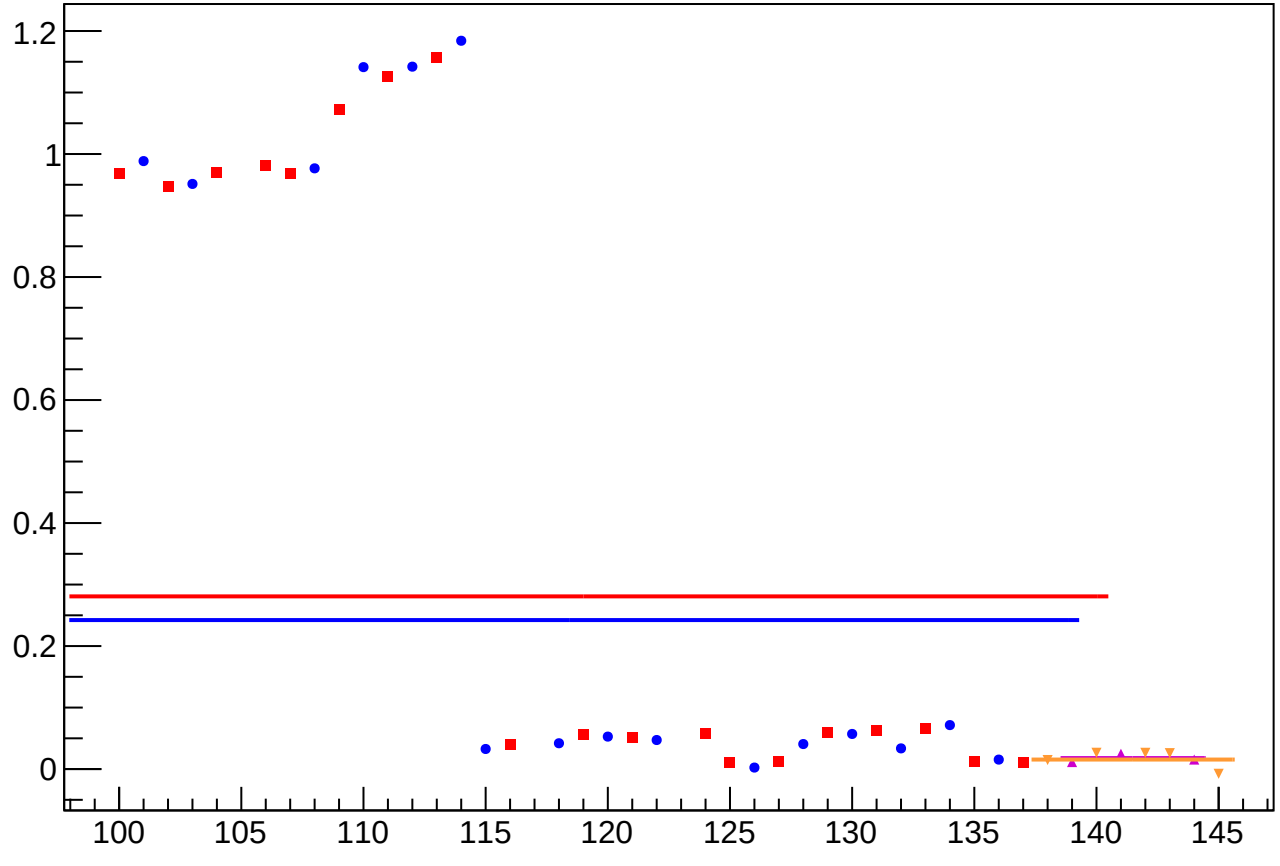
Right: 0.019+/-0.000 $\chi^2$/NDF: 2910384.5/34

In: 0.019+/-0.000 $\chi^2$/NDF:1843833.7/18

Out: 0.019+/-0.000 $\chi^2$/NDF:1954240.7/23

All: 0.019+/-0.000 $\chi^2$/NDF: 3799088.5/42

# yield_bpm4ecY_mean vs Slug, Sign Corrected




Right In: 0.242+/-0.000 $\chi^2$/NDF: 6507444426.7/15

Left Out: 0.015+/-0.000 $\chi^2$/NDF:6772470.2/4

Right Out: 0.281+/-0.000 $\chi^2$/NDF: 6757631639.3/18

Left In: 0.018+/-0.000 $\chi^2$/NDF:674114.9/2

Left: 0.016+/-0.000 $\chi^2$/NDF: 7522203.1/7

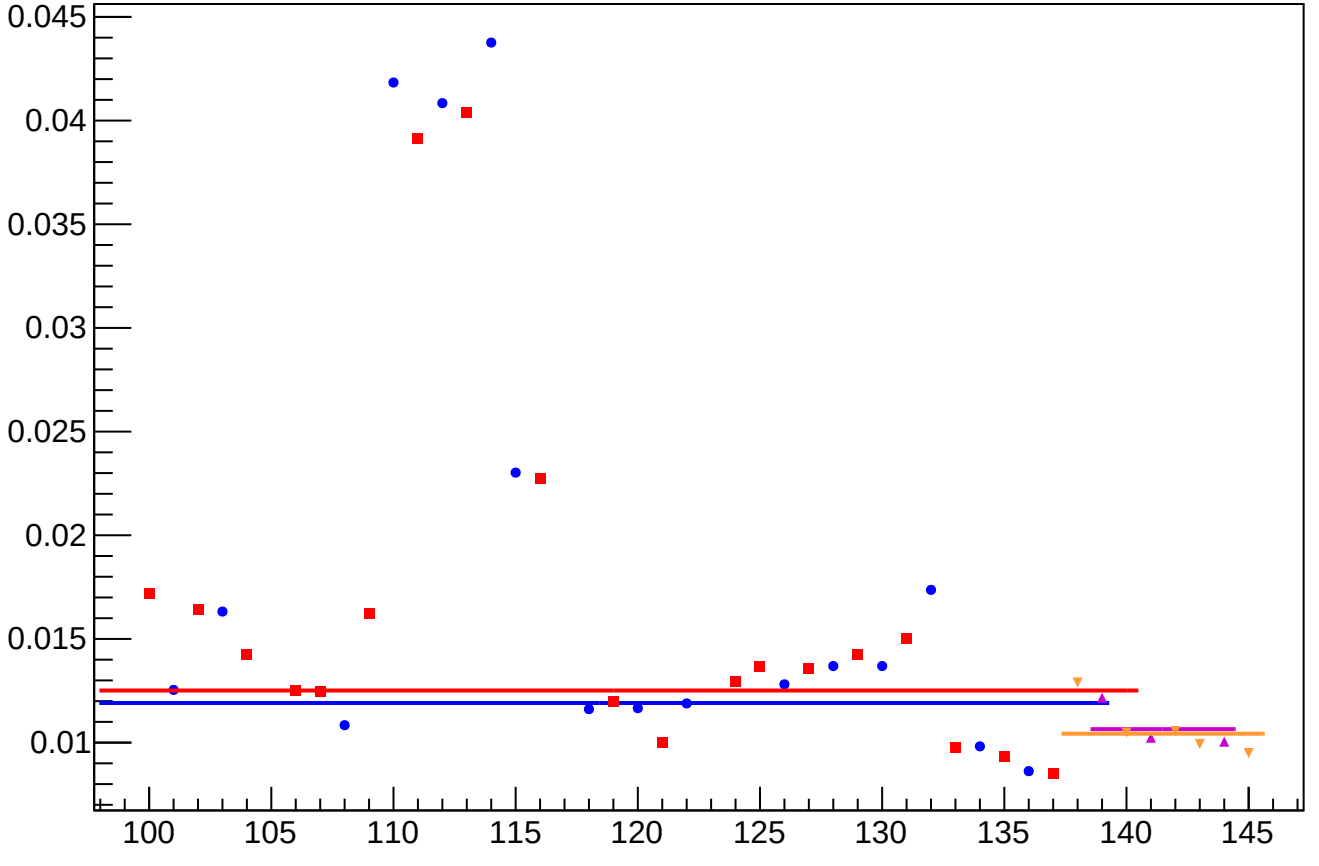
Right: 0.261+/-0.000 $\chi^2$/NDF: 13295182324.5/34

In: 0.165+/-0.000 $\chi^2$/NDF:7233737528.4/18

Out: 0.162+/-0.000 $\chi^2$/NDF:8000528453.6/23

All: 0.164+/-0.000 $\chi^2$/NDF: 15234705967.5/4

# yield_bpm4ecY_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1459428.8/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:73458.9/4

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 1392455.1/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:34243.7/2

Left: 0.011+/-0.000 $\chi^2$/NDF: 108969.9/7

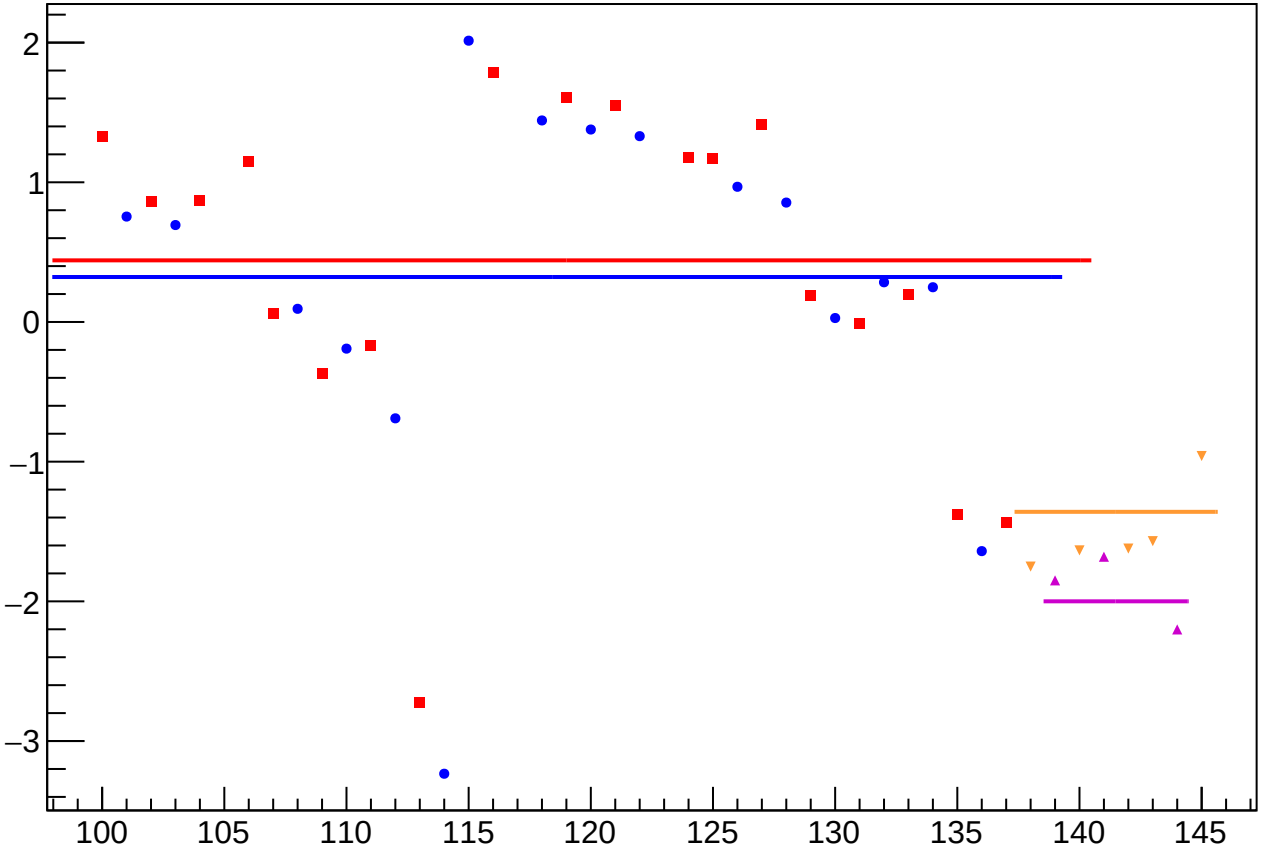
Right: 0.012+/-0.000 $\chi^2$/NDF: 2866610.3/34

In: 0.011+/-0.000 $\chi^2$/NDF:1539439.9/18

Out: 0.012+/-0.000 $\chi^2$/NDF:1618364.1/23

All: 0.012+/-0.000 $\chi^2$/NDF: 3158473.2/42

# yield_bpm1X_mean vs Slug, Sign Corrected




Right In: 0.322+/-0.000 $\chi^2$/NDF: 1664983742.5/15

Left Out: -1.359+/-0.000 $\chi^2$/NDF:60988976.8/4

Right Out: 0.441+/-0.000 $\chi^2$/NDF: 1796703168.4/18

Left In: -2.000+/-0.000 $\chi^2$/NDF:23723629.8/2

Left: -1.624+/-0.000 $\chi^2$/NDF: 180183317.6/7

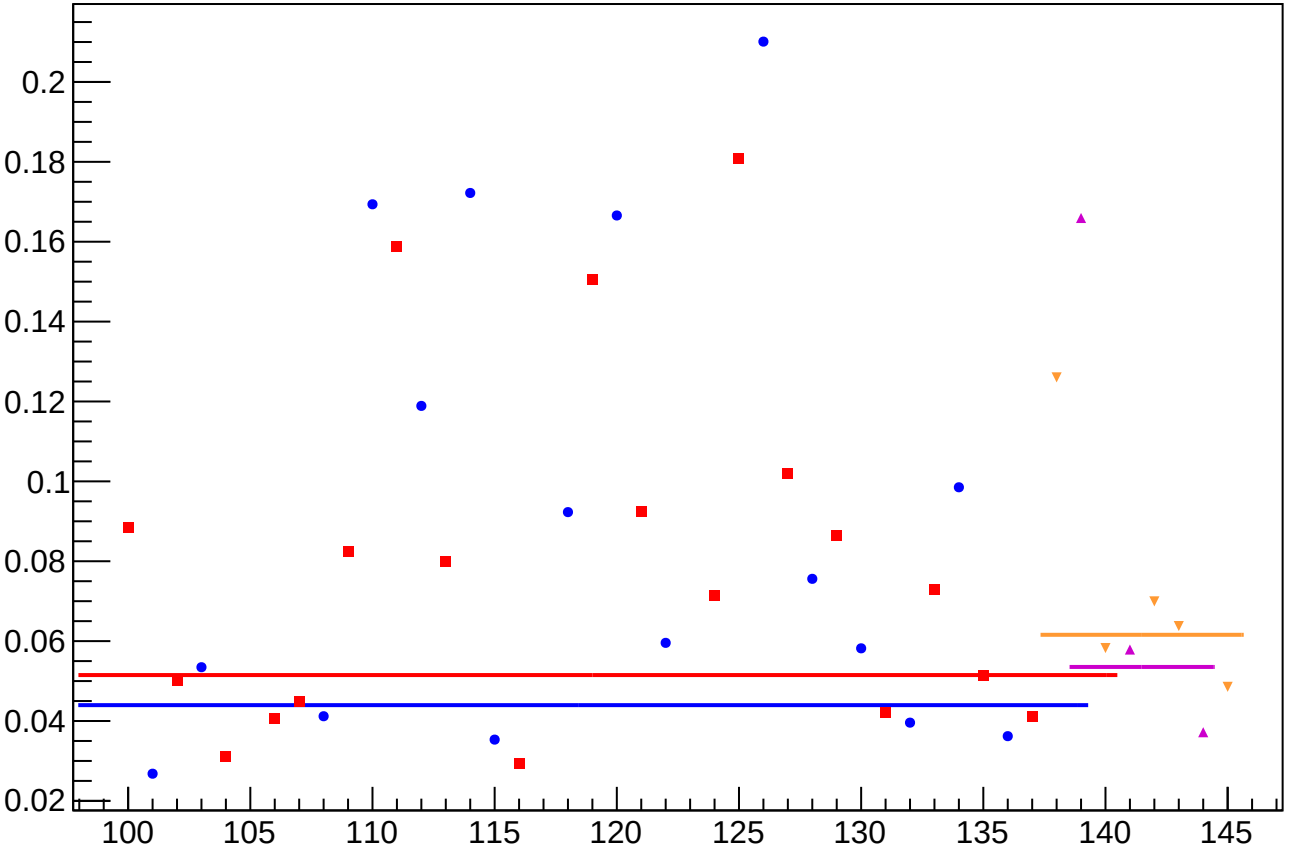
Right: 0.376+/-0.000 $\chi^2$/NDF: 3474475474.1/34

In: -0.064+/-0.000 $\chi^2$/NDF:3468362403.3/18

Out: -0.018+/-0.000 $\chi^2$/NDF:3218088613.9/23

All: -0.042+/-0.000 $\chi^2$/NDF: 6688912895.3/4

# yield_bpm1X_rms vs Slug, Sign Corrected




Right In: 0.044+/-0.000 $\chi^2$/NDF: 2787474.8/15

Left Out: 0.062+/-0.000 $\chi^2$/NDF:430282.1/4

Right Out: 0.052+/-0.000 $\chi^2$/NDF: 2367478.8/18

Left In: 0.054+/-0.000 $\chi^2$/NDF:857363.7/2

Left: 0.058+/-0.000 $\chi^2$/NDF: 1317773.0/7

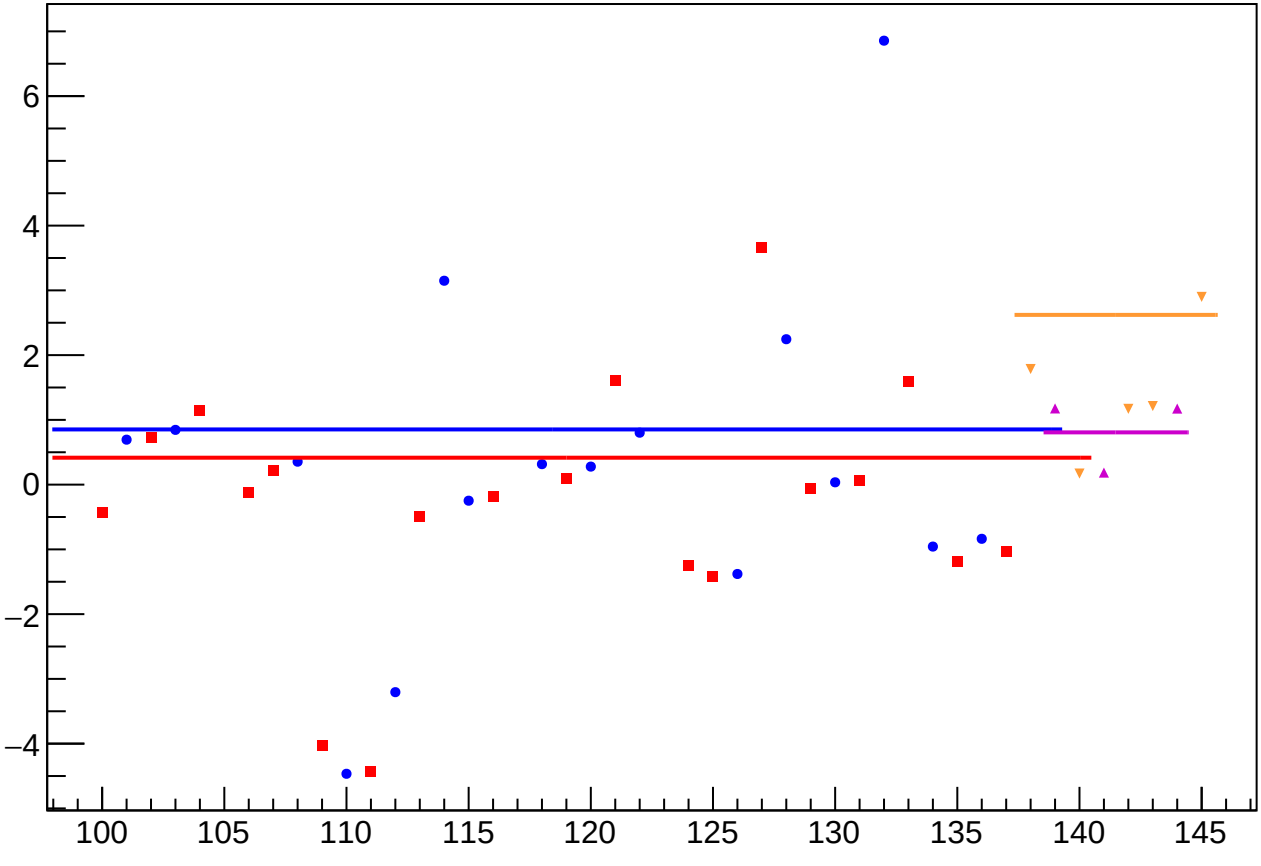
Right: 0.047+/-0.000 $\chi^2$/NDF: 5257025.7/34

In: 0.046+/-0.000 $\chi^2$/NDF:3705228.9/18

Out: 0.054+/-0.000 $\chi^2$/NDF:2883064.5/23

All: 0.050+/-0.000 $\chi^2$/NDF: 6754312.8/42

# yield_bpm1Y_mean vs Slug, Sign Corrected




Right In: 0.852+/-0.000 $\chi^2$/NDF: 11576037687.7/15

Left Out: 2.621+/-0.000 $\chi^2$/NDF:2050143593.7/4

Right Out: 0.416+/-0.000 $\chi^2$/NDF: 5121892038.7/18

Left In: 0.807+/-0.000 $\chi^2$/NDF:113521232.3/2

Left: 2.416+/-0.000 $\chi^2$/NDF: 3613813207.1/7

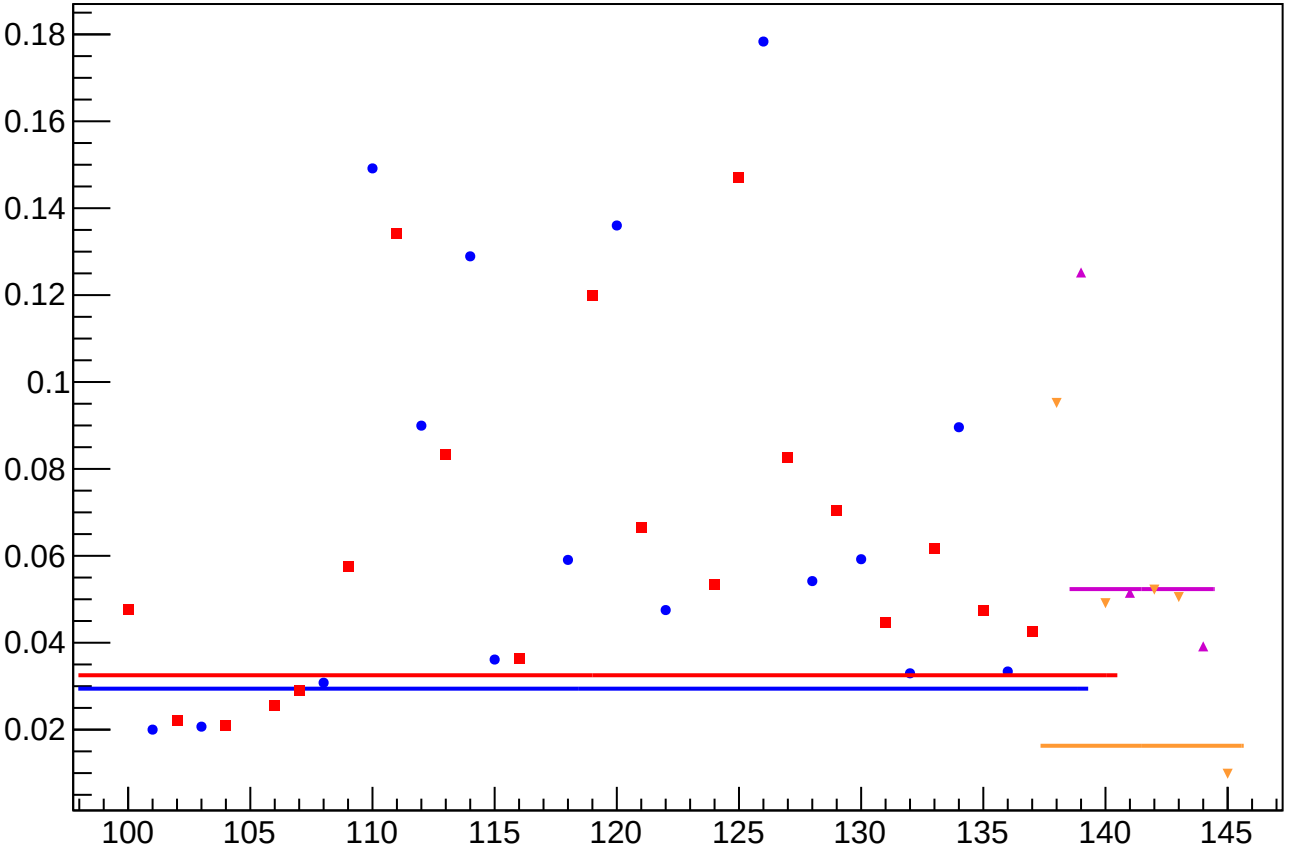
Right: 0.644+/-0.000 $\chi^2$/NDF: 17086077865.4/34

In: 0.848+/-0.000 $\chi^2$/NDF:11690479834.6/18

Out: 1.518+/-0.000 $\chi^2$/NDF:16657568675.2/23

All: 1.264+/-0.000 $\chi^2$/NDF: 29675913289.4/4

# yield_bpm1Y_rms vs Slug, Sign Corrected




Right In: 0.029+/-0.000 $\chi^2$/NDF: 3192424.8/15

Left Out: 0.016+/-0.000 $\chi^2$/NDF:2255870.9/4

Right Out: 0.033+/-0.000 $\chi^2$/NDF: 3315430.7/18

Left In: 0.052+/-0.000 $\chi^2$/NDF:617749.9/2

Left: 0.020+/-0.000 $\chi^2$/NDF: 4018825.3/7

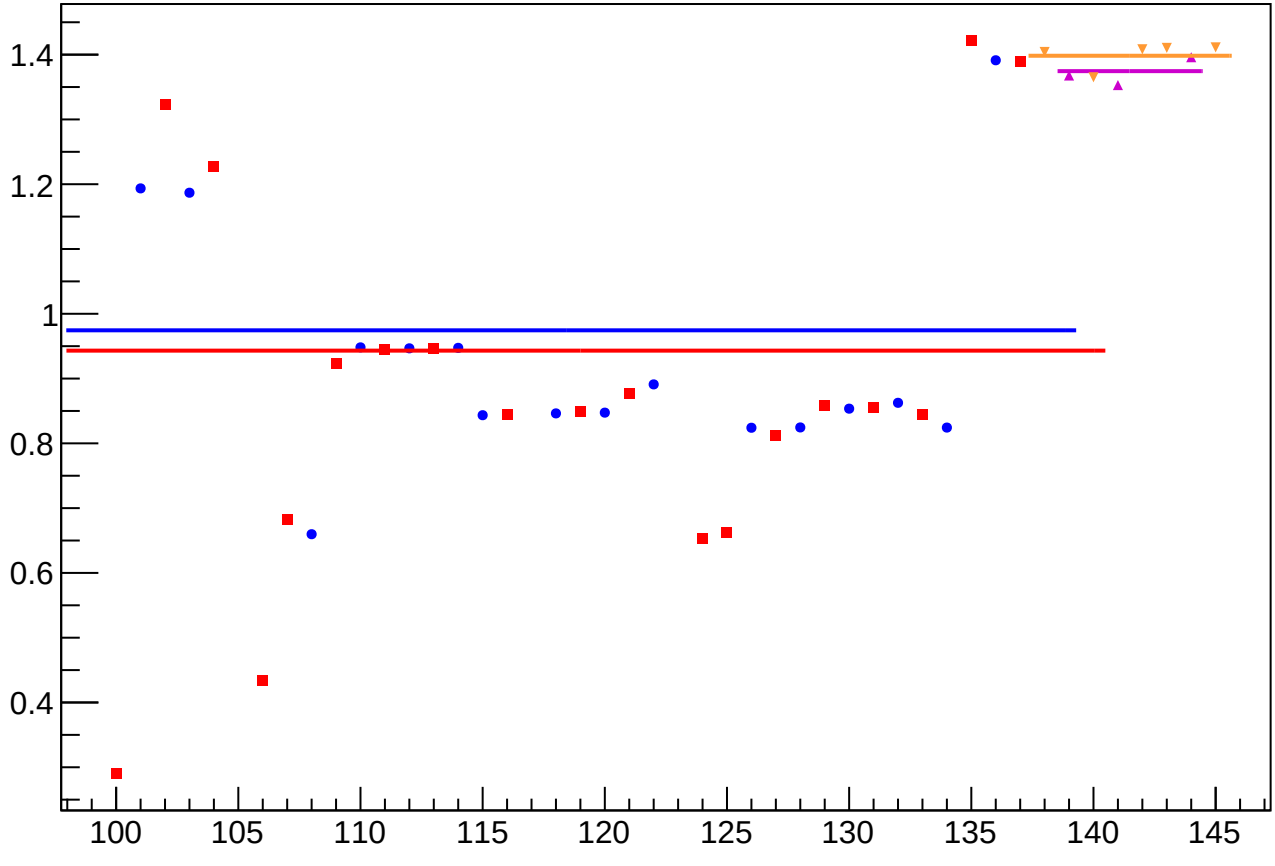
Right: 0.031+/-0.000 $\chi^2$/NDF: 6546669.2/34

In: 0.032+/-0.000 $\chi^2$/NDF:4277251.1/18

Out: 0.024+/-0.000 $\chi^2$/NDF:6598179.1/23

All: 0.027+/-0.000 $\chi^2$/NDF: 11200332.2/42

# yield_bpm11X_mean vs Slug, Sign Corrected




Right In: 0.974+/-0.000 $\chi^2$/NDF: 1458735246.5/15

Left Out: 1.398+/-0.000 $\chi^2$/NDF:7056263.1/4

Right Out: 0.943+/-0.000 $\chi^2$/NDF: 1670579900.3/18

Left In: 1.375+/-0.000 $\chi^2$/NDF:5470052.3/2

Left: 1.389+/-0.000 $\chi^2$/NDF: 16887787.4/7

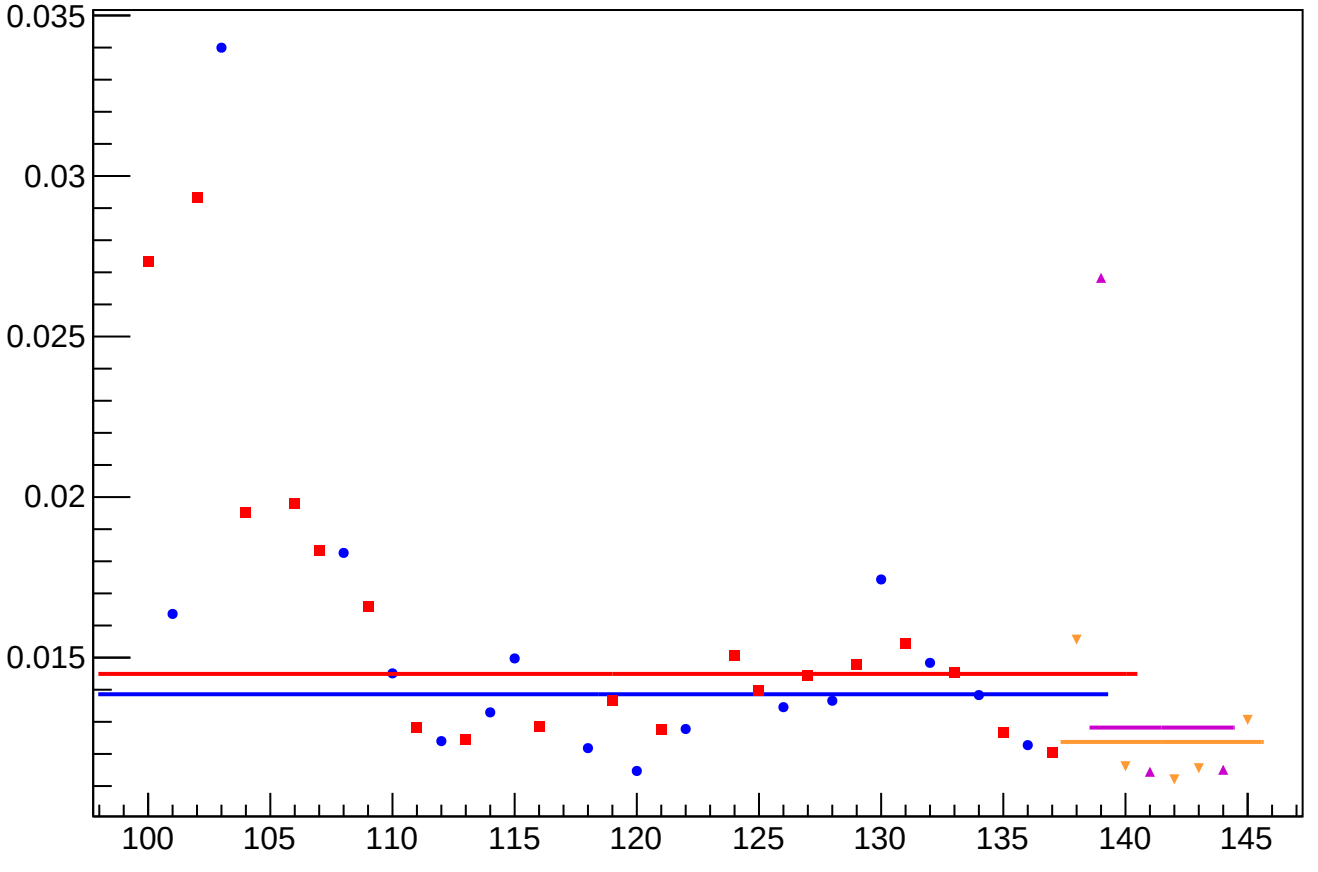
Right: 0.959+/-0.000 $\chi^2$/NDF: 3144762694.7/34

In: 1.088+/-0.000 $\chi^2$/NDF:2935999560.4/18

Out: 1.120+/-0.000 $\chi^2$/NDF:4135889524.0/23

All: 1.105+/-0.000 $\chi^2$/NDF: 7096027889.7/42

# yield_bpm11X_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 599979.5/15

Left Out: 0.012+/-0.000 $\chi^2$/NDF:76993.2/4

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 544337.7/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:483393.9/2

Left: 0.013+/-0.000 $\chi^2$/NDF: 563473.3/7

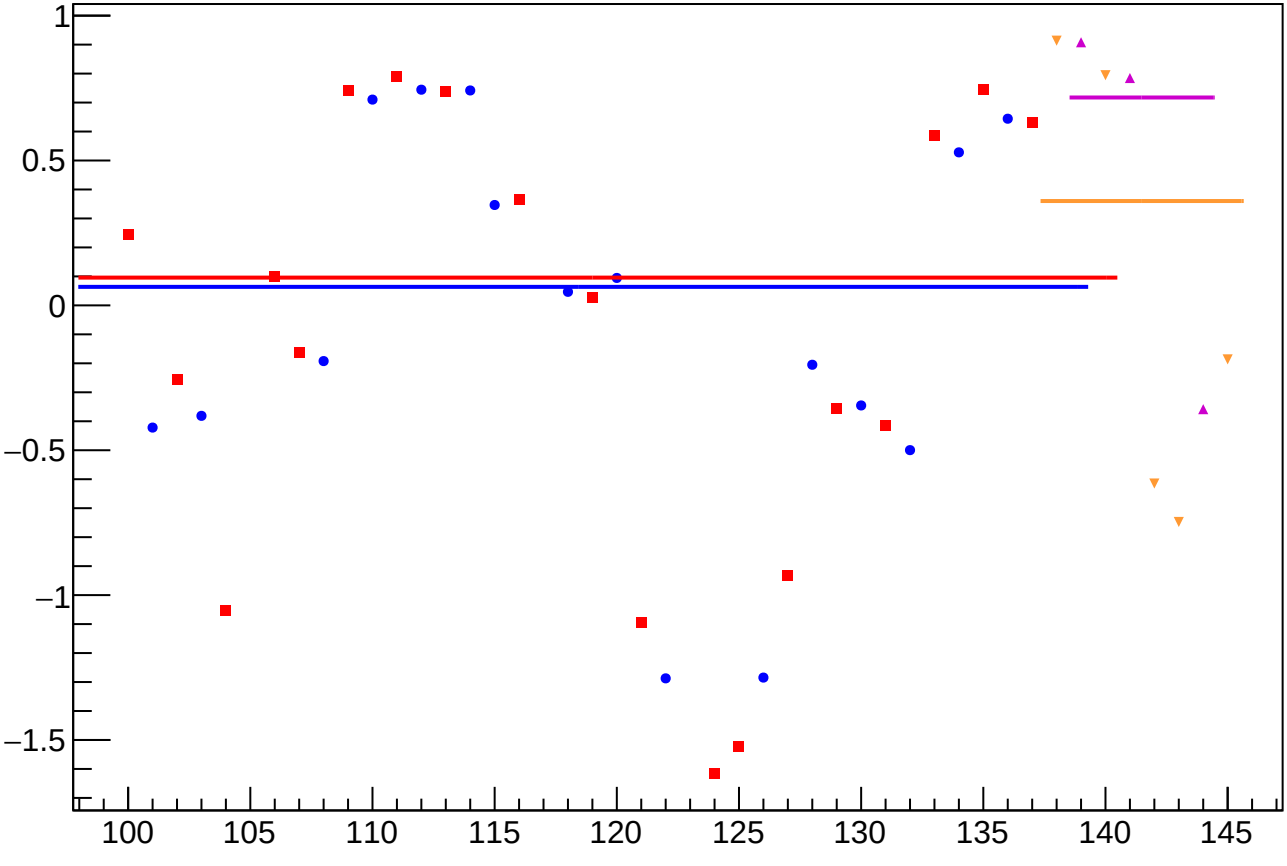
Right: 0.014+/-0.000 $\chi^2$/NDF: 1156942.1/34

In: 0.014+/-0.000 $\chi^2$/NDF:1103191.1/18

Out: 0.014+/-0.000 $\chi^2$/NDF:727856.9/23

All: 0.014+/-0.000 $\chi^2$/NDF: 1831574.2/42

# yield_bpm11Y_mean vs Slug, Sign Corrected




Right In: 0.064+/-0.000 $\chi^2$/NDF: 11035911379.4/15

Left Out: 0.360+/-0.000 $\chi^2$/NDF:17201229836.6/4

Right Out: 0.096+/-0.000 $\chi^2$/NDF: 17784850774.3/18

Left In: 0.717+/-0.000 $\chi^2$/NDF:7190869439.5/2

Left: 0.534+/-0.000 $\chi^2$/NDF: 26886305890.9/7

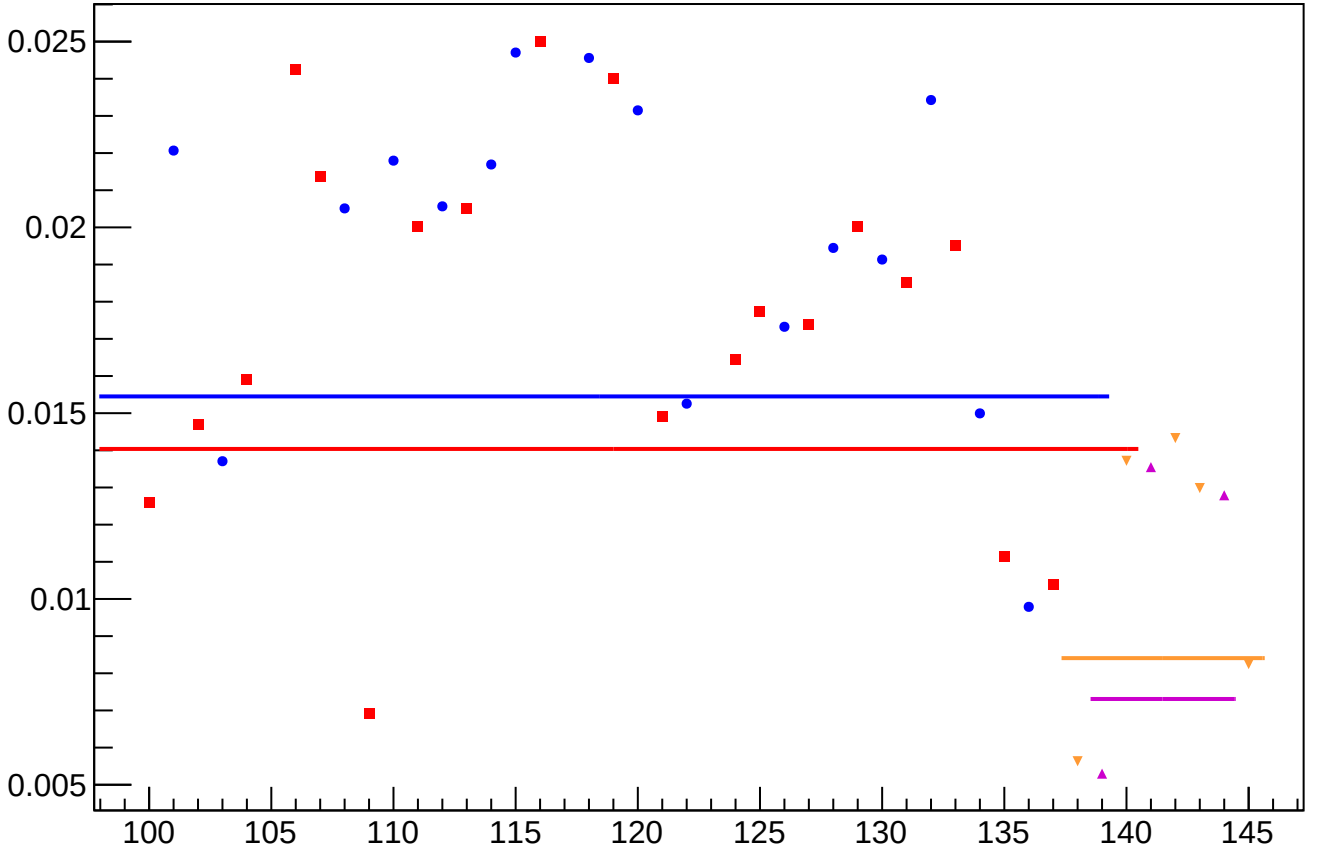
Right: 0.081+/-0.000 $\chi^2$/NDF: 28834701842.2/34

In: 0.458+/-0.000 $\chi^2$/NDF:24702888963.1/18

Out: 0.247+/-0.000 $\chi^2$/NDF:36180186110.2/23

All: 0.347+/-0.000 $\chi^2$/NDF: 62352705977.4/4

# yield_bpm11Y_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 1293711.1/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:868174.1/4

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 1686554.4/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:896038.0/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 1811440.0/7

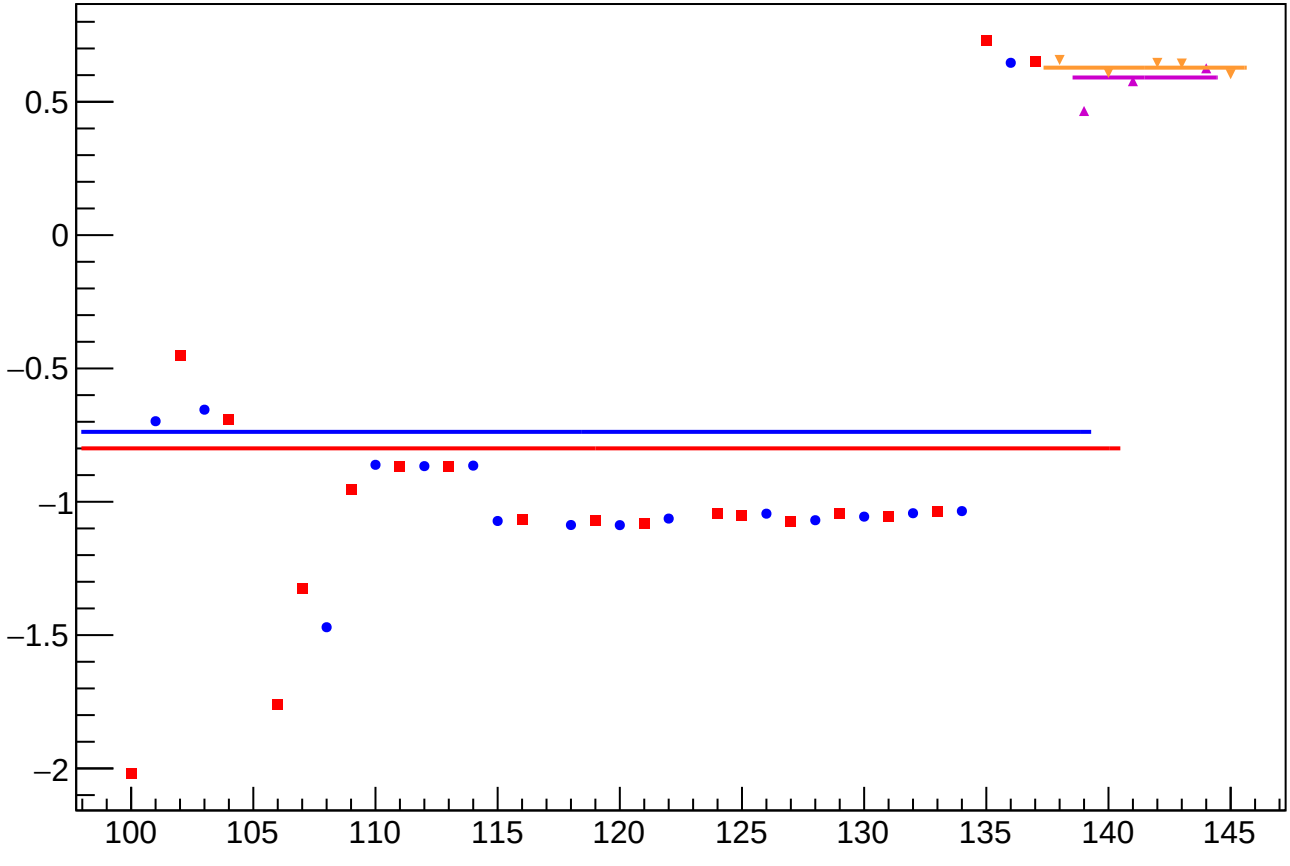
Right: 0.015+/-0.000 $\chi^2$/NDF: 3034802.2/34

In: 0.011+/-0.000 $\chi^2$/NDF:4200042.7/18

Out: 0.011+/-0.000 $\chi^2$/NDF:3638392.5/23

All: 0.011+/-0.000 $\chi^2$/NDF: 7843140.7/42

# yield_bpm12X_mean vs Slug, Sign Corrected




Right In: -0.738+/-0.000 $\chi^2$/NDF: 2072845802.4/15

Left Out: 0.628+/-0.000 $\chi^2$/NDF:1346325.9/4

Right Out: -0.800+/-0.000 $\chi^2$/NDF: 1883862445.0/18

Left In: 0.591+/-0.000 $\chi^2$/NDF:3820816.8/2

Left: 0.614+/-0.000 $\chi^2$/NDF: 6771409.5/7

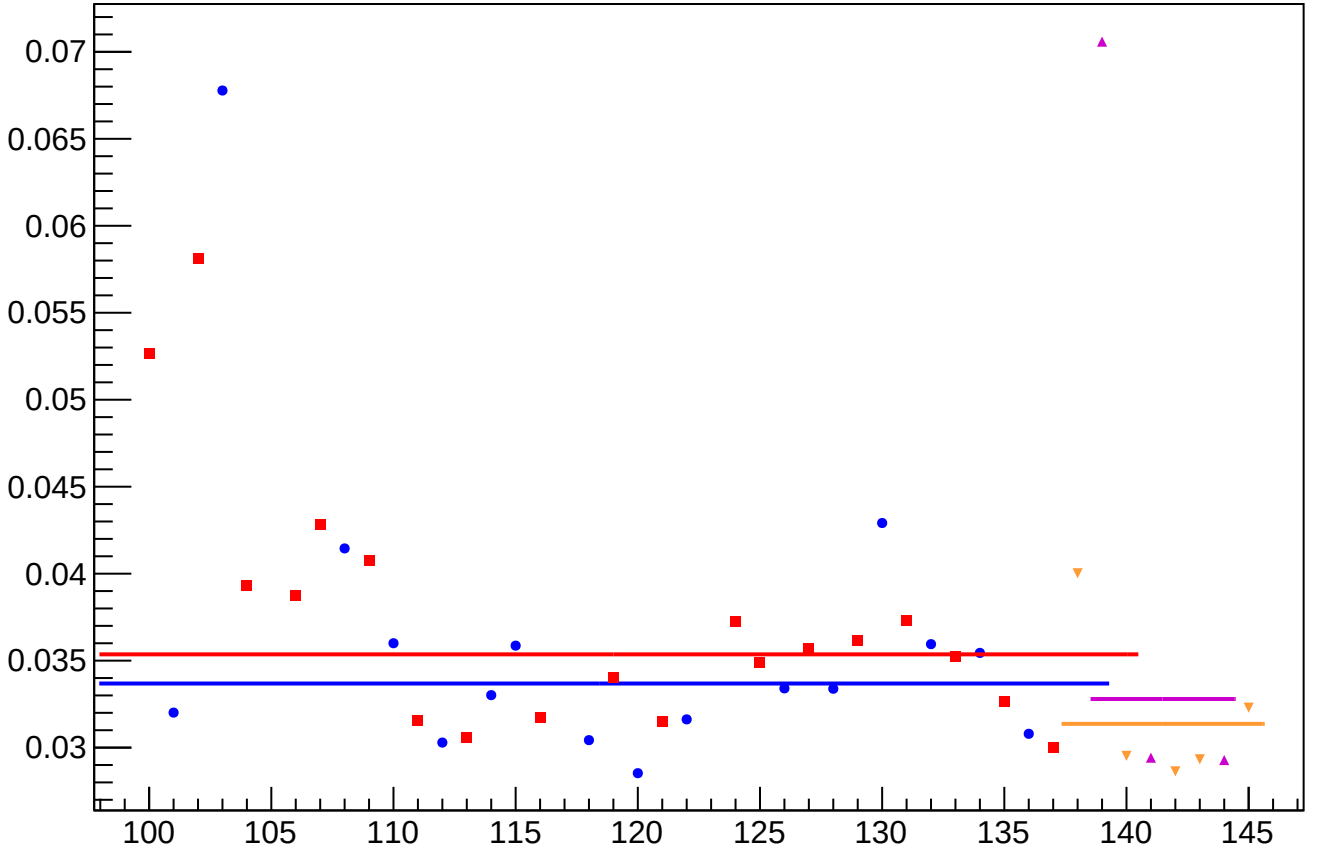
Right: -0.768+/-0.000 $\chi^2$/NDF: 3966960462.4/34

In: -0.394+/-0.000 $\chi^2$/NDF:4616561969.7/18

Out: -0.276+/-0.000 $\chi^2$/NDF:5752008199.8/23

All: -0.332+/-0.000 $\chi^2$/NDF: 10422775927.5/

# yield_bpm12X_rms vs Slug, Sign Corrected




Right In: 0.034+/-0.000 $\chi^2$/NDF: 420227.2/15

Left Out: 0.031+/-0.000 $\chi^2$/NDF:79007.4/4

Right Out: 0.035+/-0.000 $\chi^2$/NDF: 296353.9/18

Left In: 0.033+/-0.000 $\chi^2$/NDF:505263.1/2

Left: 0.032+/-0.000 $\chi^2$/NDF: 589083.0/7

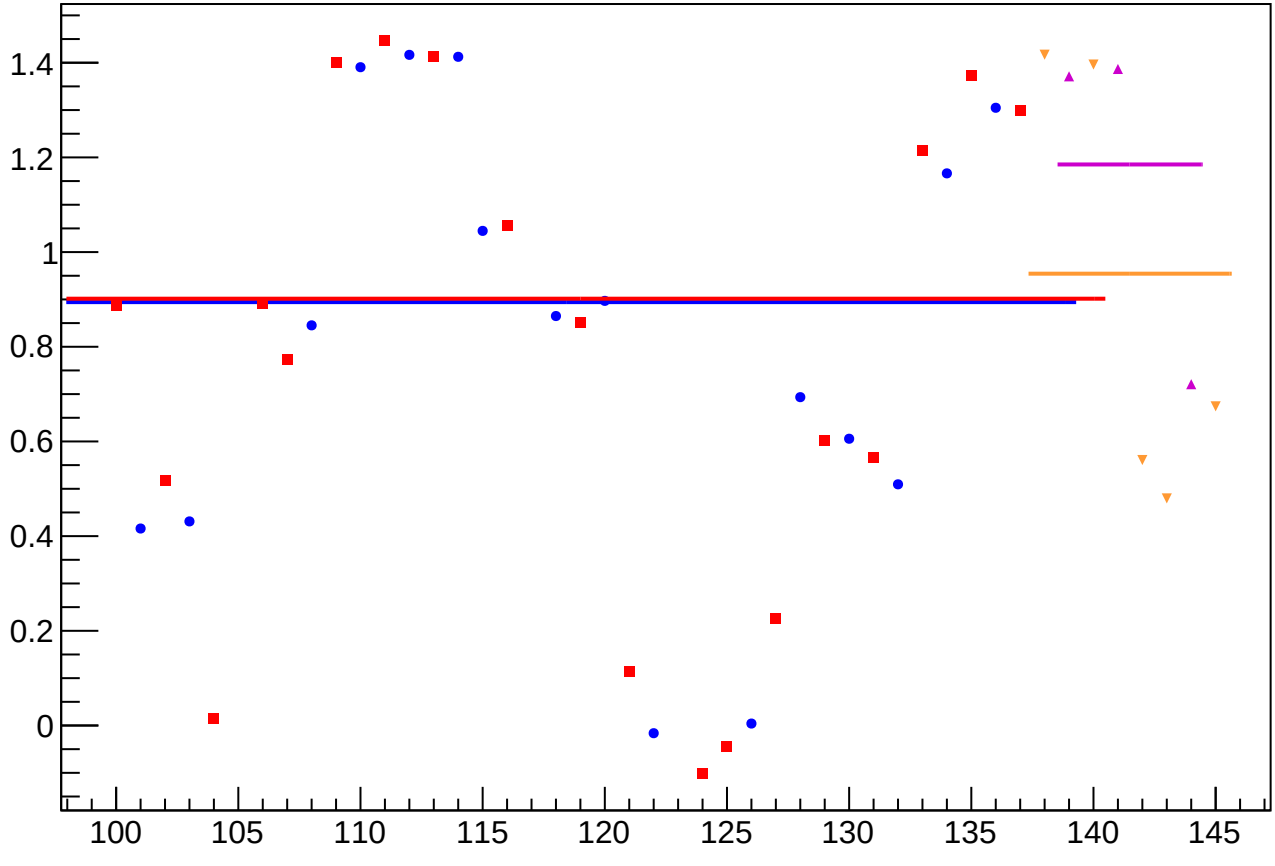
Right: 0.034+/-0.000 $\chi^2$/NDF: 731644.4/34

In: 0.033+/-0.000 $\chi^2$/NDF:927768.6/18

Out: 0.034+/-0.000 $\chi^2$/NDF:435954.5/23

All: 0.034+/-0.000 $\chi^2$/NDF: 1365246.8/42

# yield_bpm12Y_mean vs Slug, Sign Corrected




Right In: 0.894+/-0.000 $\chi^2$/NDF: 12749707787.6/15

Left Out: 0.954+/-0.000 $\chi^2$/NDF:9247365127.5/4

Right Out: 0.902+/-0.000 $\chi^2$/NDF: 17893051843.7/18

Left In: 1.185+/-0.000 $\chi^2$/NDF:3631003471.9/2

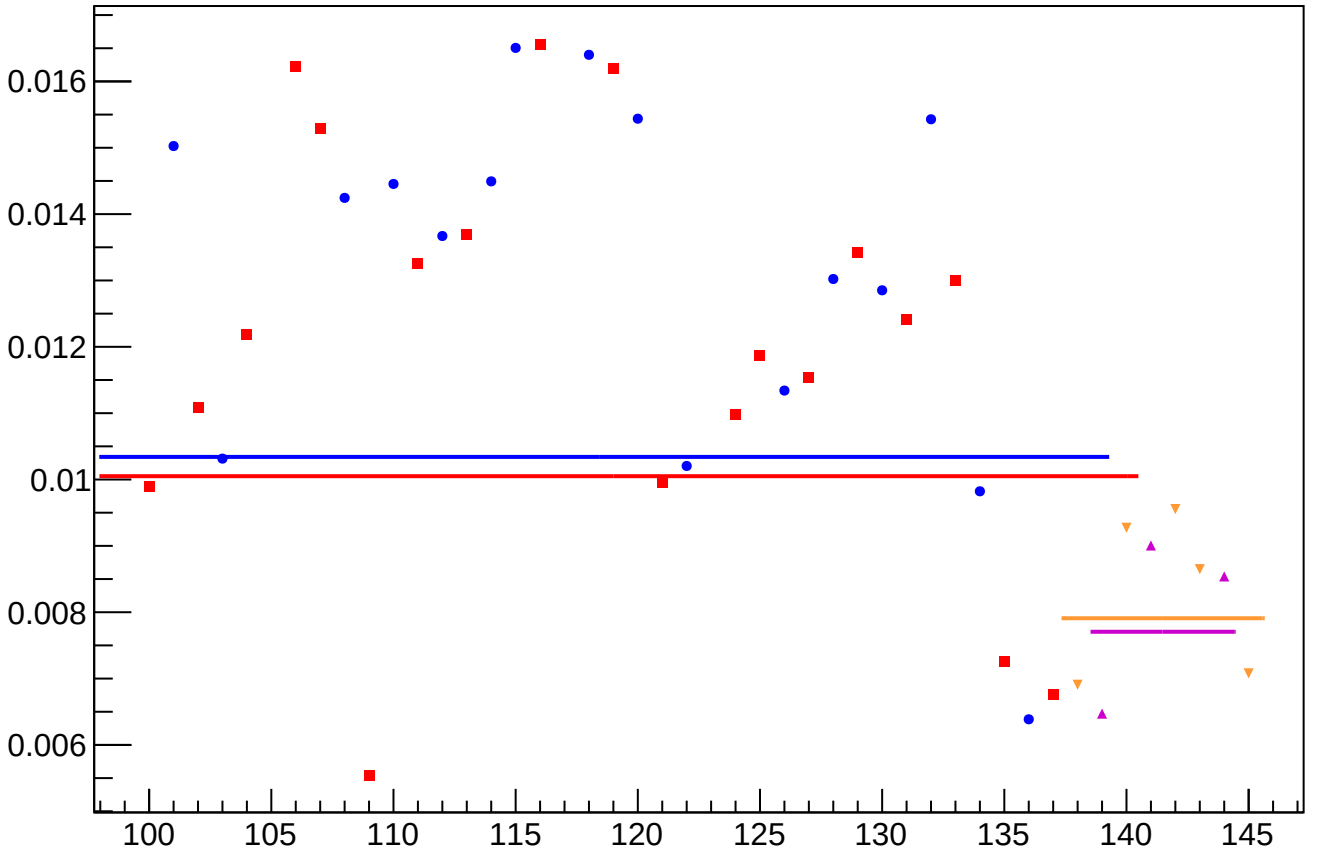
Left: 1.053+/-0.000 $\chi^2$/NDF: 14120251010.2/7

Right: 0.898+/-0.000 $\chi^2$/NDF: 30644277544.6/34

In: 1.017+/-0.000 $\chi^2$/NDF:18373296677.3/18

Out: 0.927+/-0.000 $\chi^2$/NDF:27220325488.4/23

All: 0.968+/-0.000 $\chi^2$/NDF: 46023384859.1/4




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1350446.6/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:122144.5/4

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 1336866.7/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:107938.5/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 232017.4/7

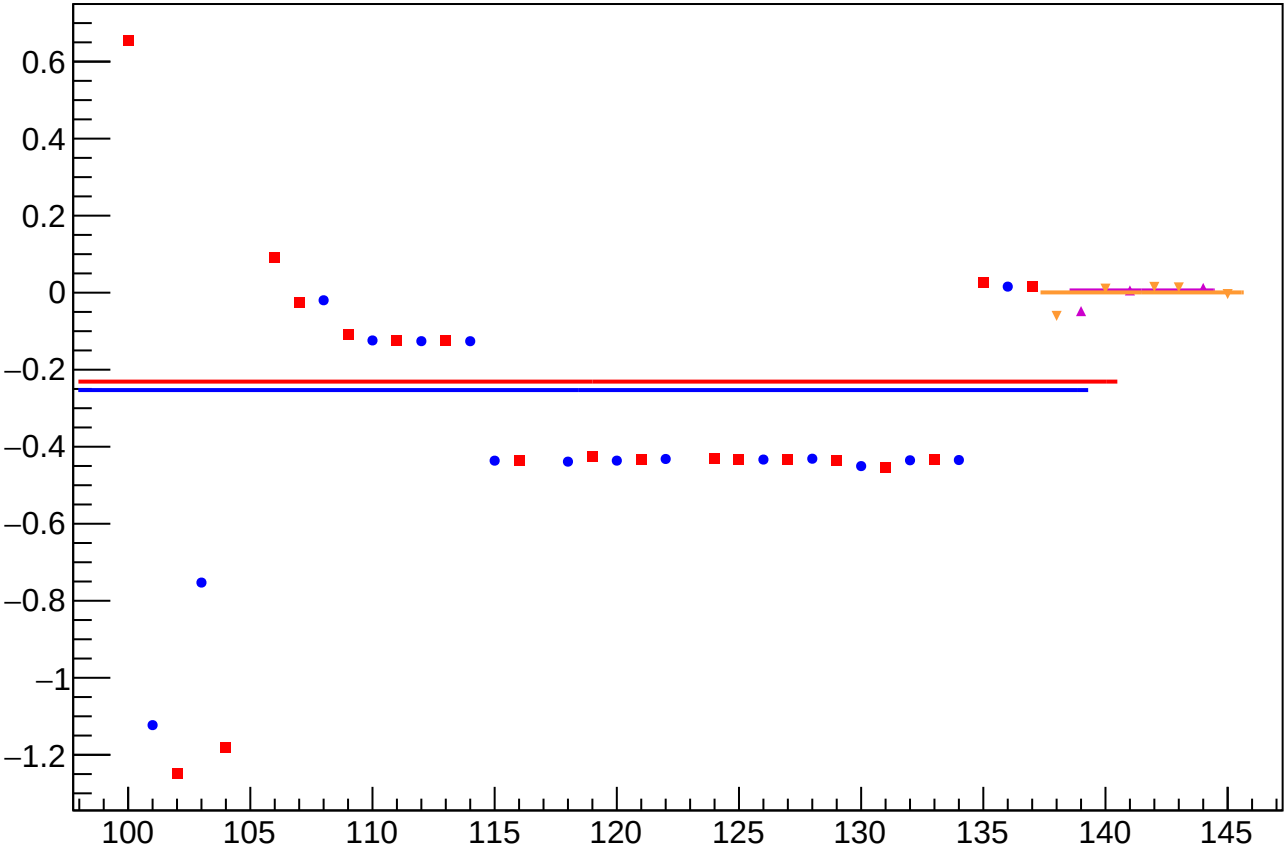
Right: 0.010+/-0.000 $\chi^2$/NDF: 2692207.1/34

In: 0.009+/-0.000 $\chi^2$/NDF:1785700.4/18

Out: 0.009+/-0.000 $\chi^2$/NDF:1721397.0/23

All: 0.009+/-0.000 $\chi^2$/NDF: 3511040.4/42

# yield_bpm16X_mean vs Slug, Sign Corrected




Right In: -0.253+/-0.000 $\chi^2$/NDF: 2025242410.1/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:16923519.6/4

Right Out: -0.231+/-0.000 $\chi^2$/NDF: 1808702536.0/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:3784147.7/2

Left: 0.003+/-0.000 $\chi^2$/NDF: 21038640.3/7

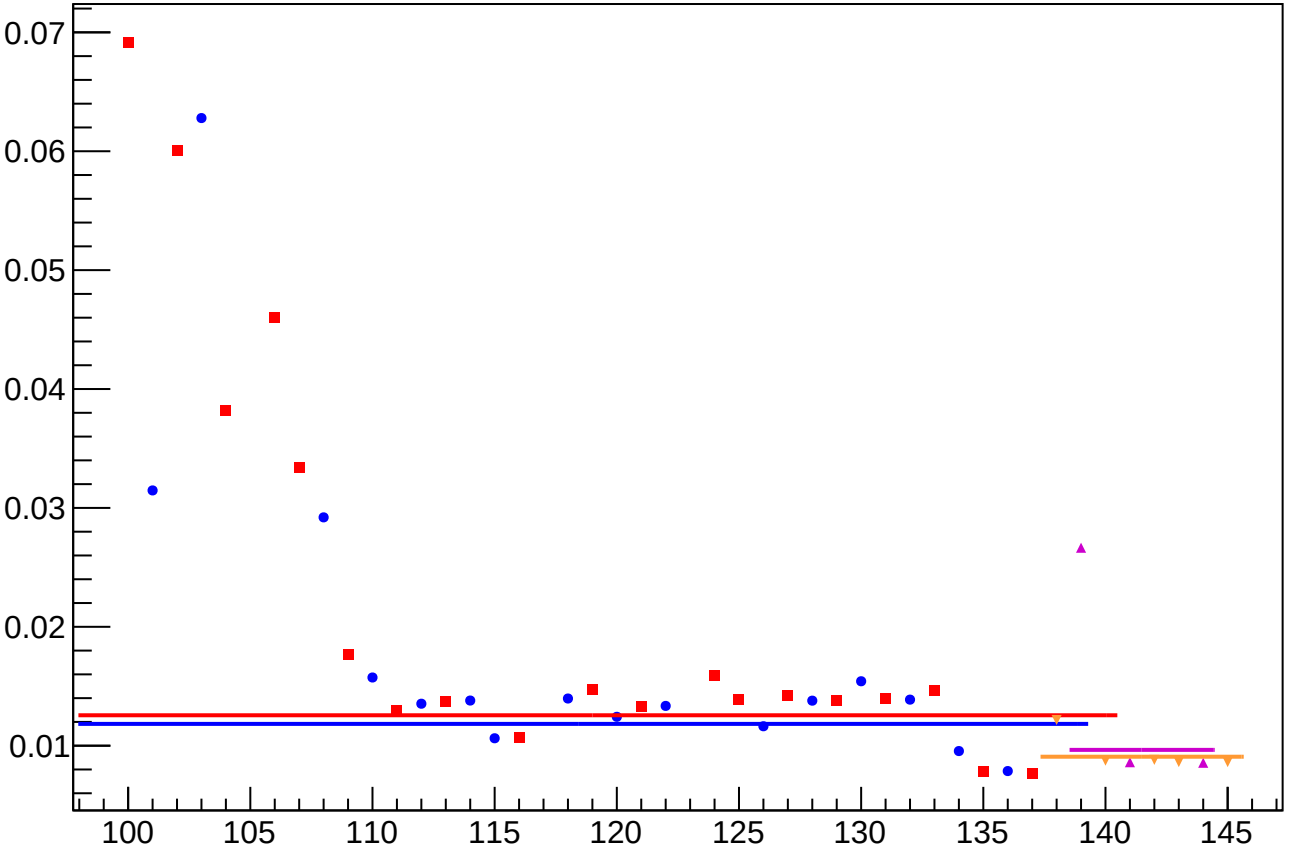
Right: -0.243+/-0.000 $\chi^2$/NDF: 3842049612.8/34

In: -0.160+/-0.000 $\chi^2$/NDF:2884124970.7/18

Out: -0.113+/-0.000 $\chi^2$/NDF:2690451254.0/23

All: -0.135+/-0.000 $\chi^2$/NDF: 5639167150.2/4

# yield_bpm16X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1942550.6/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:78968.7/4

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 2217419.3/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:719610.9/2

Left: 0.009+/-0.000 $\chi^2$/NDF: 806787.1/7

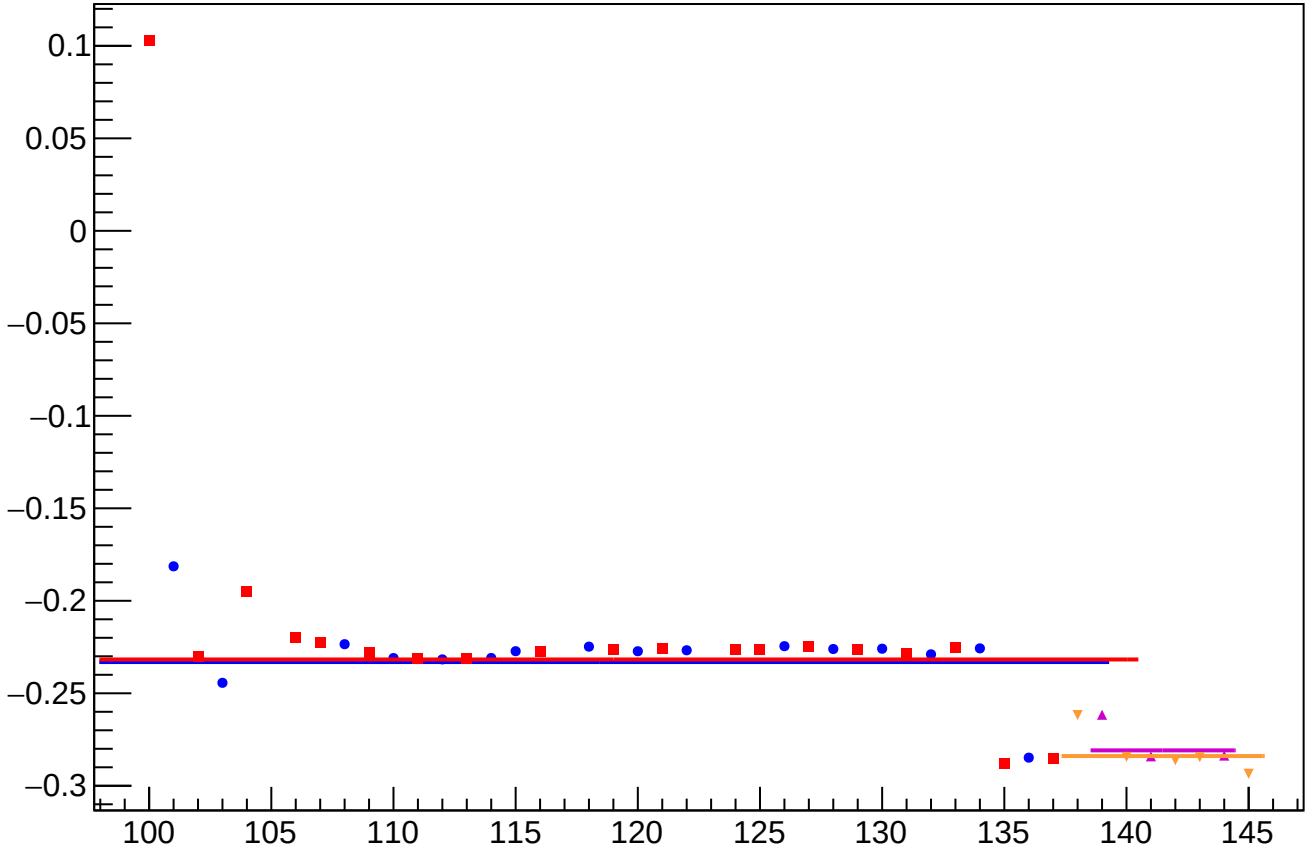
Right: 0.012+/-0.000 $\chi^2$/NDF: 4177625.3/34

In: 0.011+/-0.000 $\chi^2$/NDF:2784138.9/18

Out: 0.011+/-0.000 $\chi^2$/NDF:2688329.1/23

All: 0.011+/-0.000 $\chi^2$/NDF: 5476463.9/42

# yield_bpm16Y_mean vs Slug, Sign Corrected




Right In: -0.233+/-0.000 $\chi^2$/NDF: 199059878.3/15

Left Out: -0.284+/-0.000 $\chi^2$/NDF:14389581.1/4

Right Out: -0.232+/-0.000 $\chi^2$/NDF: 287244778.7/18

Left In: -0.281+/-0.000 $\chi^2$/NDF:5681069.3/2

Left: -0.283+/-0.000 $\chi^2$/NDF: 20653044.2/7

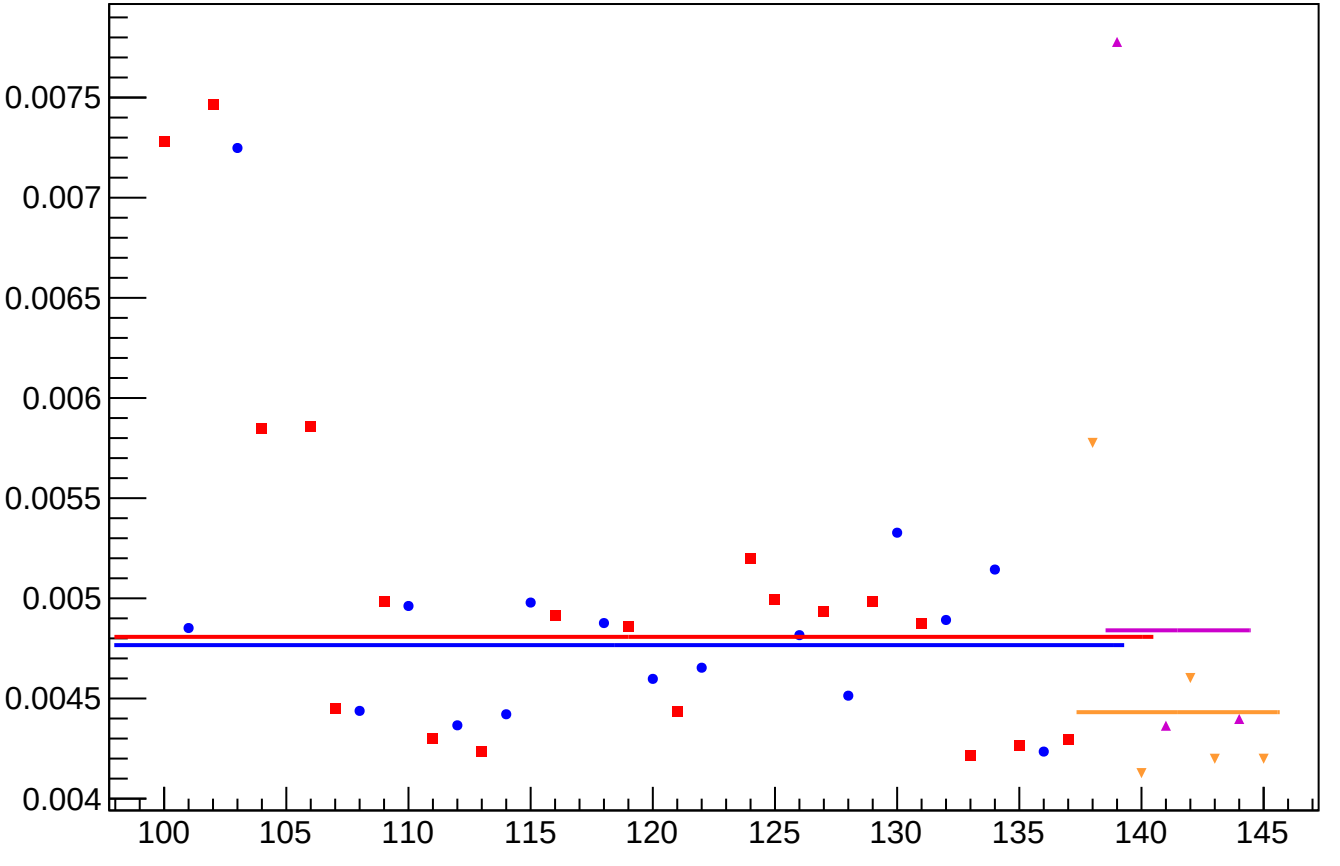
Right: -0.232+/-0.000 $\chi^2$/NDF: 486580881.0/34

In: -0.245+/-0.000 $\chi^2$/NDF:370654194.4/18

Out: -0.251+/-0.000 $\chi^2$/NDF:589620762.9/23

All: -0.248+/-0.000 $\chi^2$/NDF: 966252071.1/42

# yield_bpm16Y_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 191759.7/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:95749.4/4

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 293738.0/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:264191.0/2

Left: 0.005+/-0.000 $\chi^2$/NDF: 380509.6/7

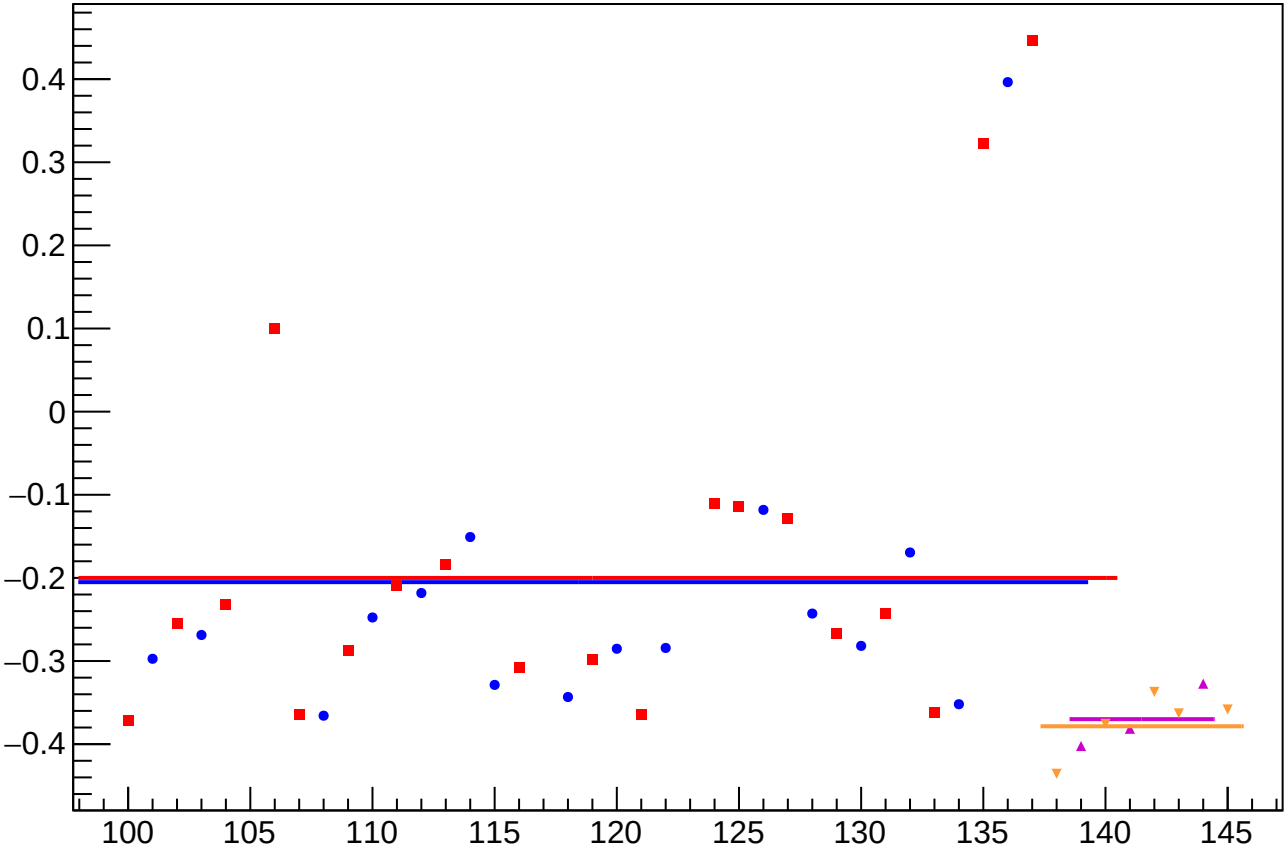
Right: 0.005+/-0.000 $\chi^2$/NDF: 485985.9/34

In: 0.005+/-0.000 $\chi^2$/NDF:456744.9/18

Out: 0.005+/-0.000 $\chi^2$/NDF:419354.5/23

All: 0.005+/-0.000 $\chi^2$/NDF: 881557.1/42

# yield_bpm0i02X_mean vs Slug, Sign Corrected




Right In: -0.205+/-0.000 $\chi^2$/NDF: 6189271855.3/15

Left Out: -0.378+/-0.000 $\chi^2$/NDF:143271758.4/4

Right Out: -0.200+/-0.000 $\chi^2$/NDF: 5249978819.5/18

Left In: -0.370+/-0.000 $\chi^2$/NDF:101242265.1/2

Left: -0.375+/-0.000 $\chi^2$/NDF: 248668813.6/7

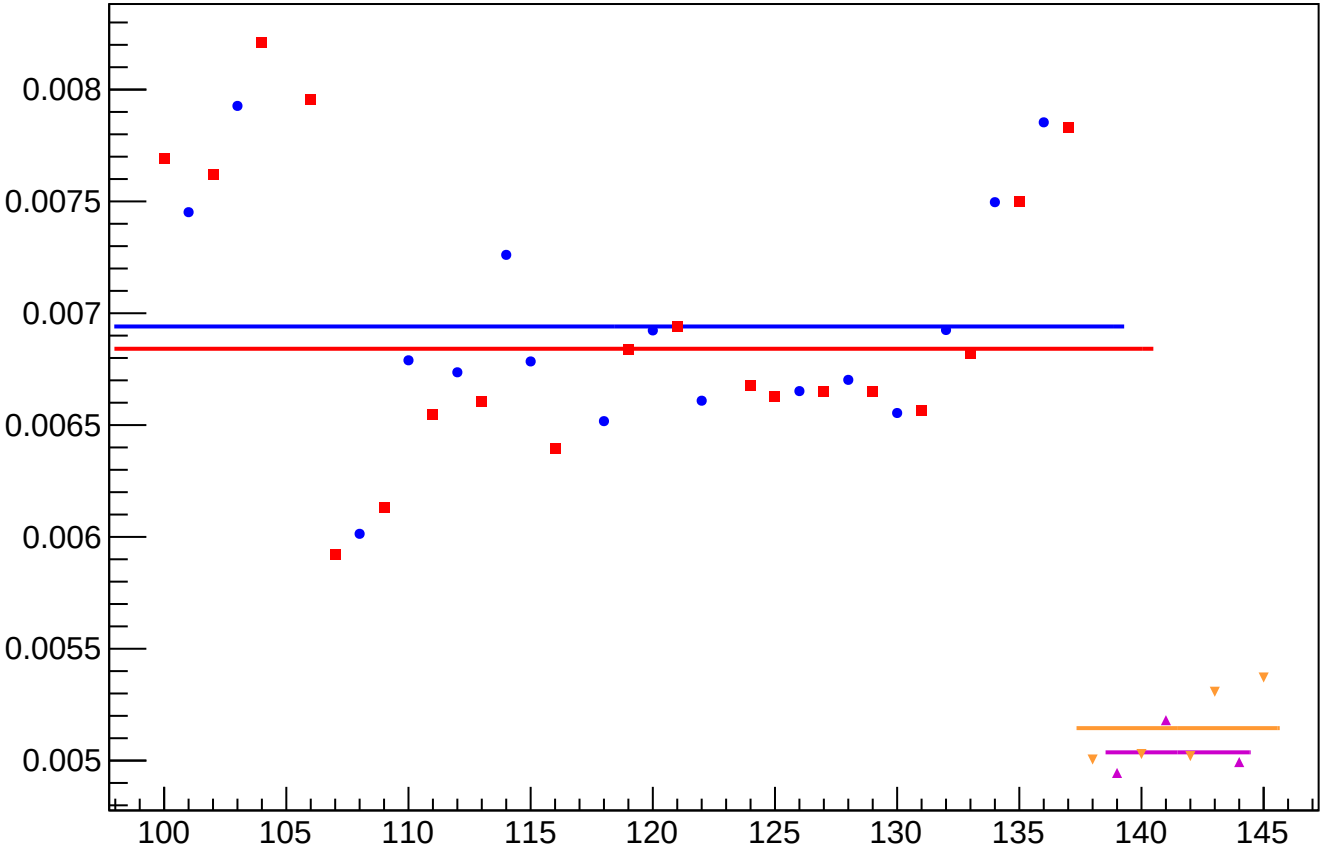
Right: -0.203+/-0.000 $\chi^2$/NDF: 11441176033.3/34

In: -0.272+/-0.000 $\chi^2$/NDF:7897032127.7/18

Out: -0.282+/-0.000 $\chi^2$/NDF:7648770282.1/23

All: -0.277+/-0.000 $\chi^2$/NDF: 15559463304.9/

# yield_bpm0i02X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 85159.0/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:6542.3/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 99819.4/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:2012.8/2

Left: 0.005+/-0.000 $\chi^2$/NDF: 9879.4/7

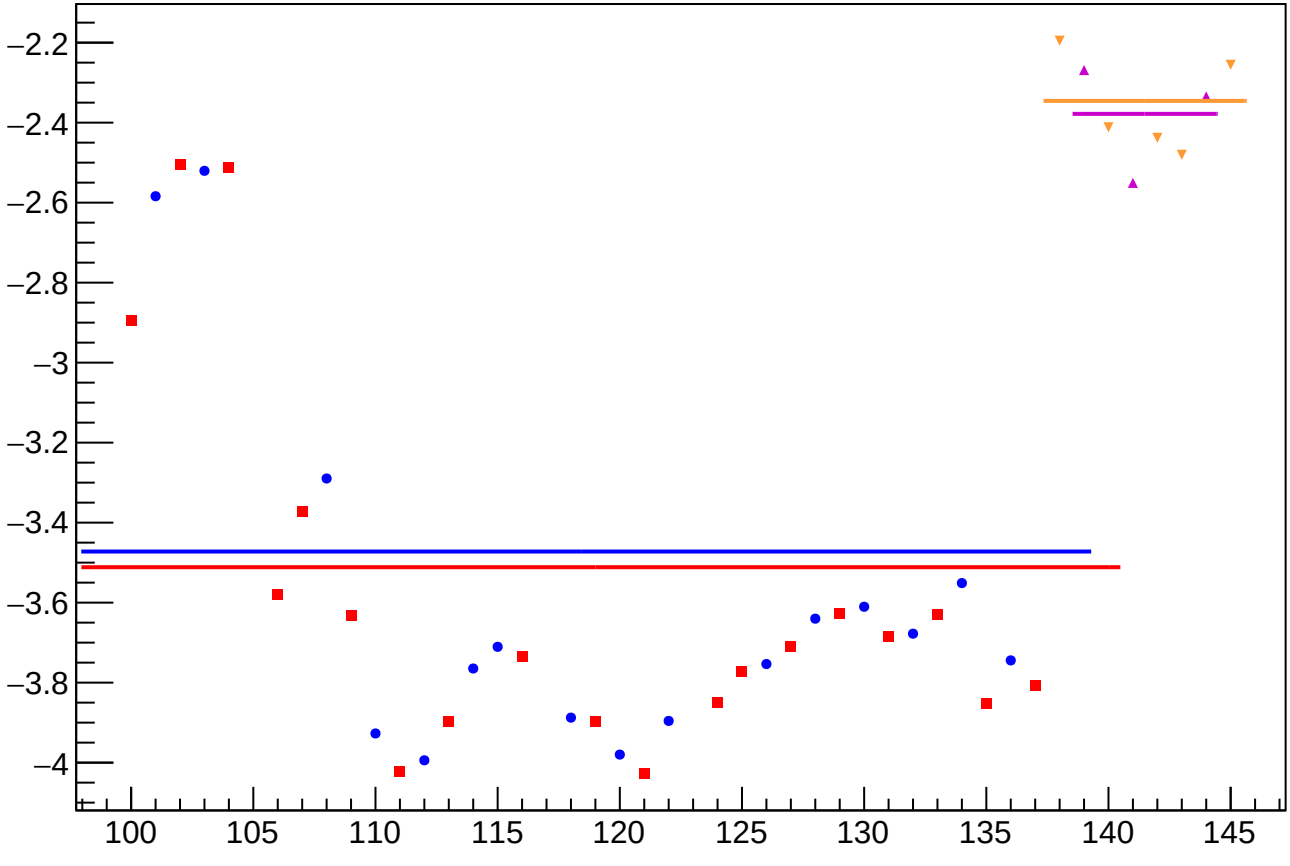
Right: 0.007+/-0.000 $\chi^2$/NDF: 186467.2/34

In: 0.006+/-0.000 $\chi^2$/NDF:516054.6/18

Out: 0.006+/-0.000 $\chi^2$/NDF:513953.4/23

All: 0.006+/-0.000 $\chi^2$/NDF: 1033074.8/42

# yield_bpm0i02Y_mean vs Slug, Sign Corrected




Right In: -3.472+/-0.000 $\chi^2$/NDF: 29592353445.4/15

Left Out: -2.346+/-0.000 $\chi^2$/NDF:433043116.4/4

Right Out: -3.511+/-0.000 $\chi^2$/NDF: 29716501733.6/18

Left In: -2.378+/-0.000 $\chi^2$/NDF:338286872.1/2

Left: -2.359+/-0.000 $\chi^2$/NDF: 785700564.0/7

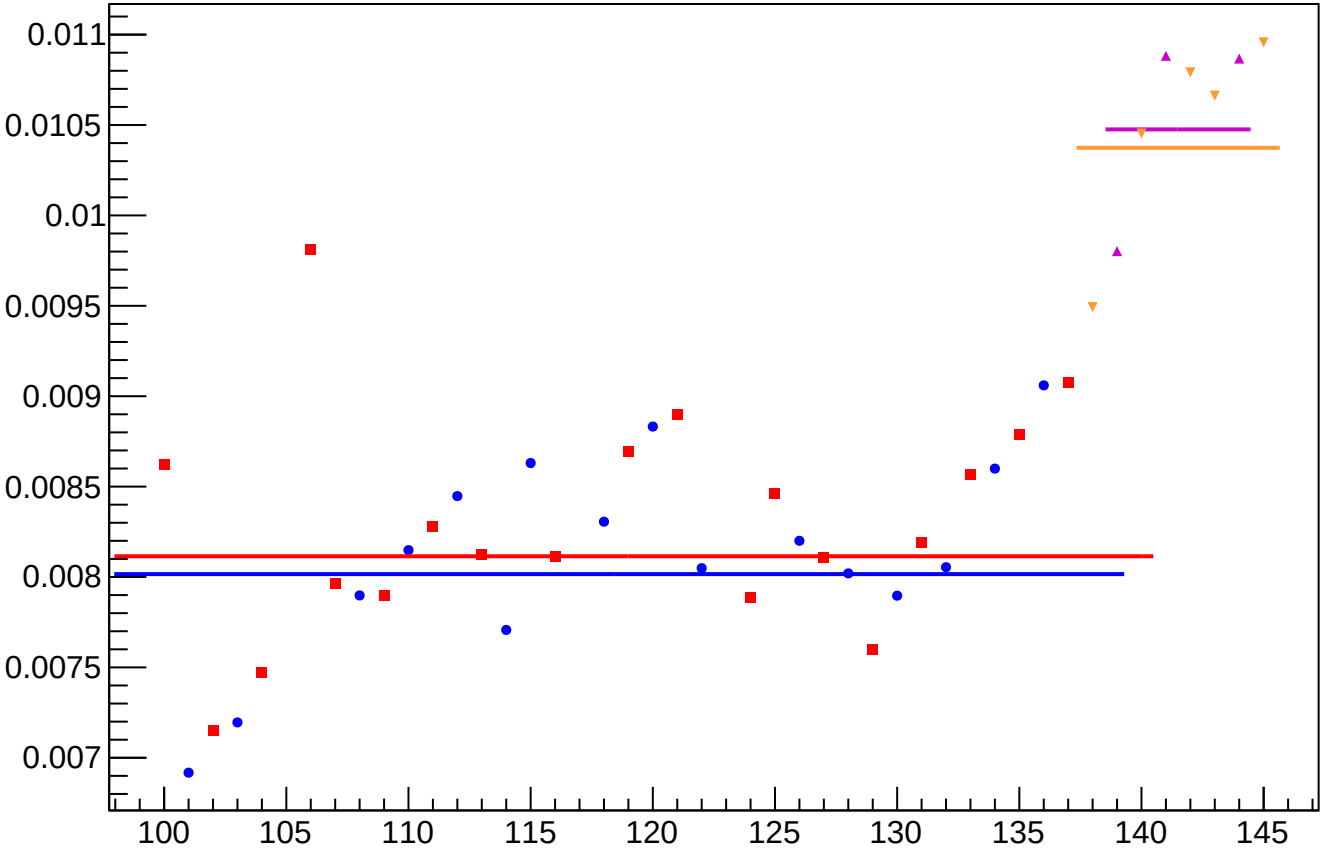
Right: -3.492+/-0.000 $\chi^2$/NDF: 59392057159.0/34

In: -3.278+/-0.000 $\chi^2$/NDF:53002828613.9/18

Out: -3.241+/-0.000 $\chi^2$/NDF:64220288924.9/23

All: -3.259+/-0.000 $\chi^2$/NDF: 117318361108.

# yield_bpm0i02Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 86232.2/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:19680.8/4

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 71067.5/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:12599.3/2

Left: 0.010+/-0.000 $\chi^2$/NDF: 32562.9/7

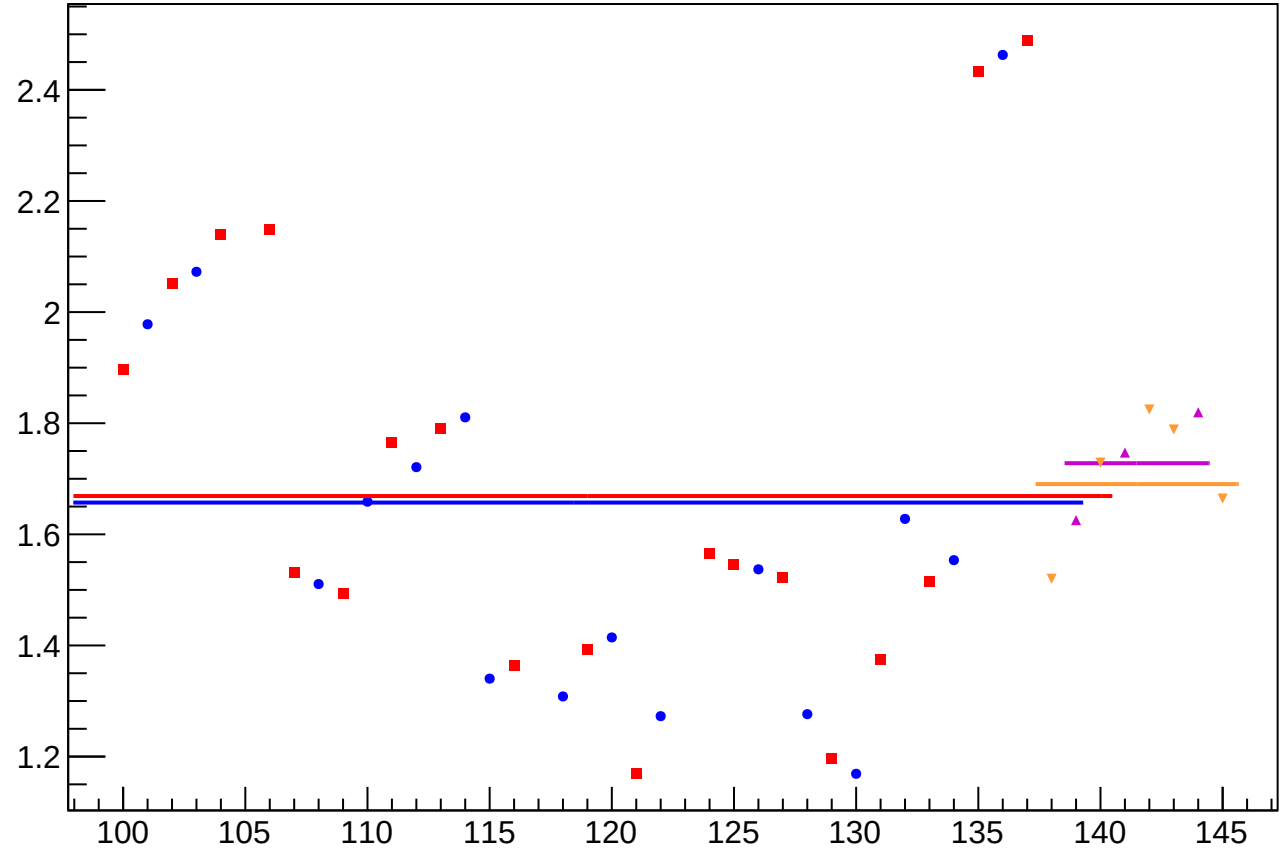
Right: 0.008+/-0.000 $\chi^2$/NDF: 158353.0/34

In: 0.008+/-0.000 $\chi^2$/NDF:332038.2/18

Out: 0.009+/-0.000 $\chi^2$/NDF:346682.4/23

All: 0.009+/-0.000 $\chi^2$/NDF: 683478.5/42

# yield_bpm0i02aX_mean vs Slug, Sign Corrected




Right In: 1.657+/-0.000 $\chi^2$/NDF: 6666154117.3/15

Left Out: 1.690+/-0.000 $\chi^2$/NDF:308314040.5/4

Right Out: 1.669+/-0.000 $\chi^2$/NDF: 6357589265.5/18

Left In: 1.728+/-0.000 $\chi^2$/NDF:132448966.6/2

Left: 1.707+/-0.000 $\chi^2$/NDF: 457315236.0/7

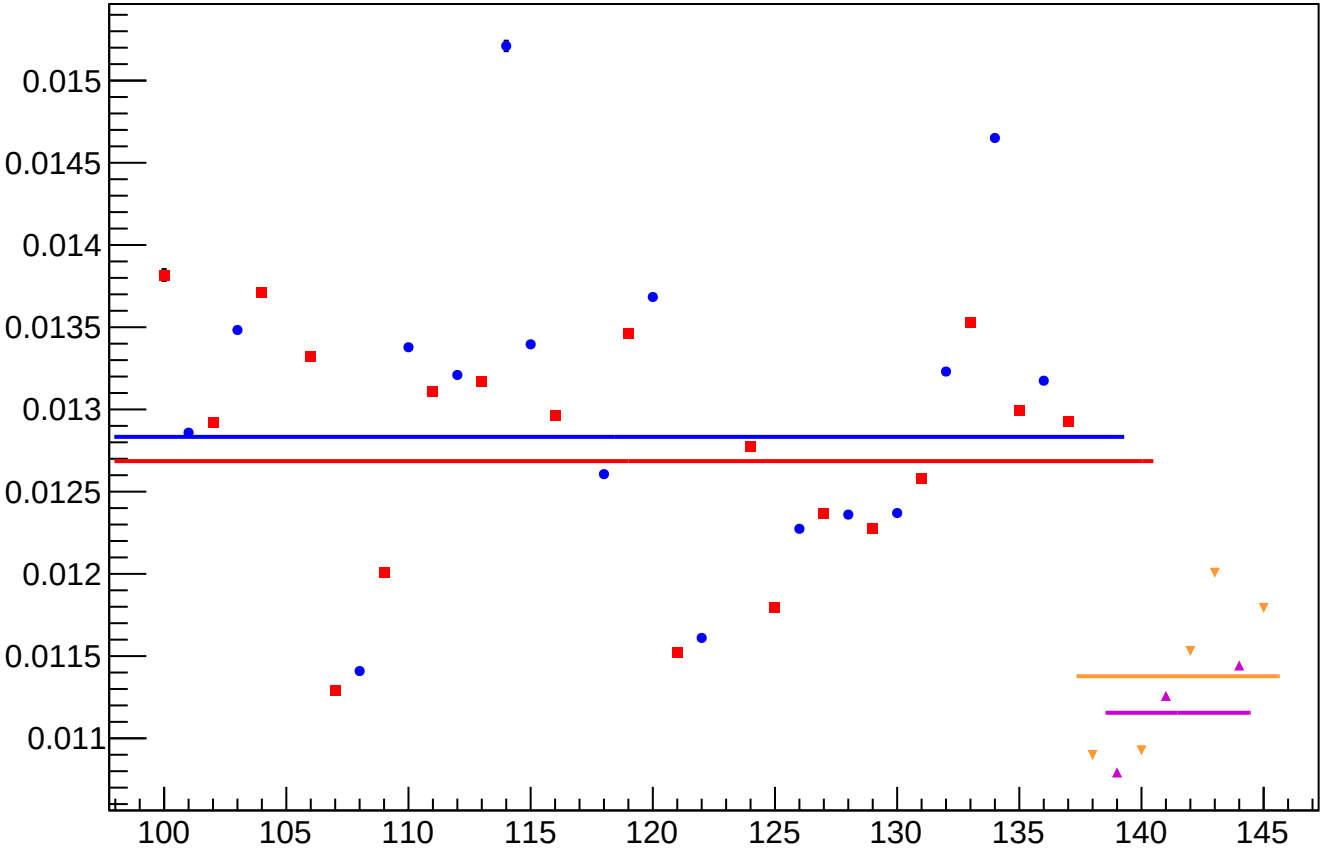
Right: 1.663+/-0.000 $\chi^2$/NDF: 13026763419.8/34

In: 1.680+/-0.000 $\chi^2$/NDF:6868066044.5/18

Out: 1.677+/-0.000 $\chi^2$/NDF:6673724750.7/23

All: 1.679+/-0.000 $\chi^2$/NDF: 13542119382.1/4

# 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:11983.3/4

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 43279.9/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:3104.9/2

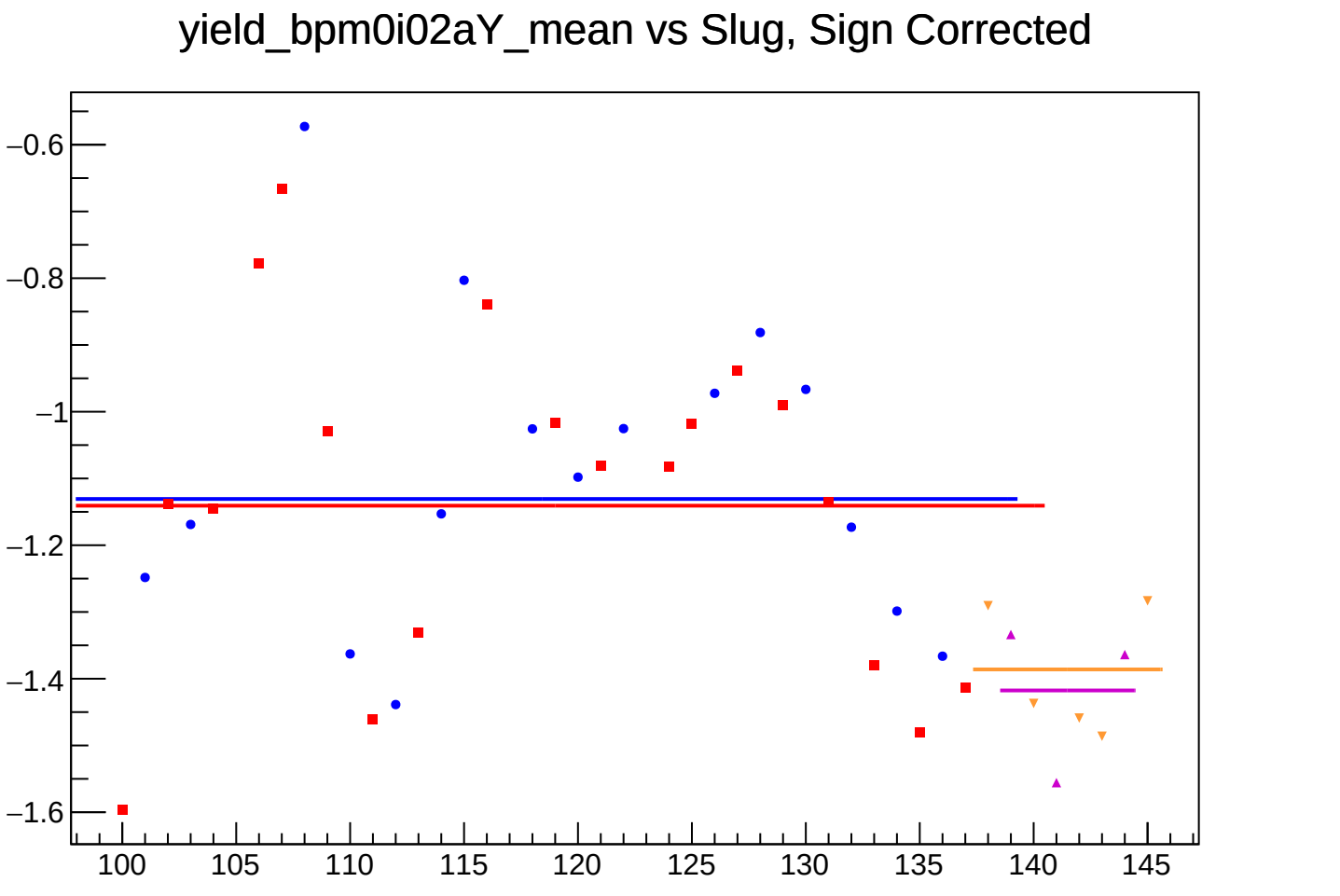
Left: 0.011+/-0.000 $\chi^2$/NDF: 16242.5/7

Right: 0.013+/-0.000 $\chi^2$/NDF: 96748.3/34

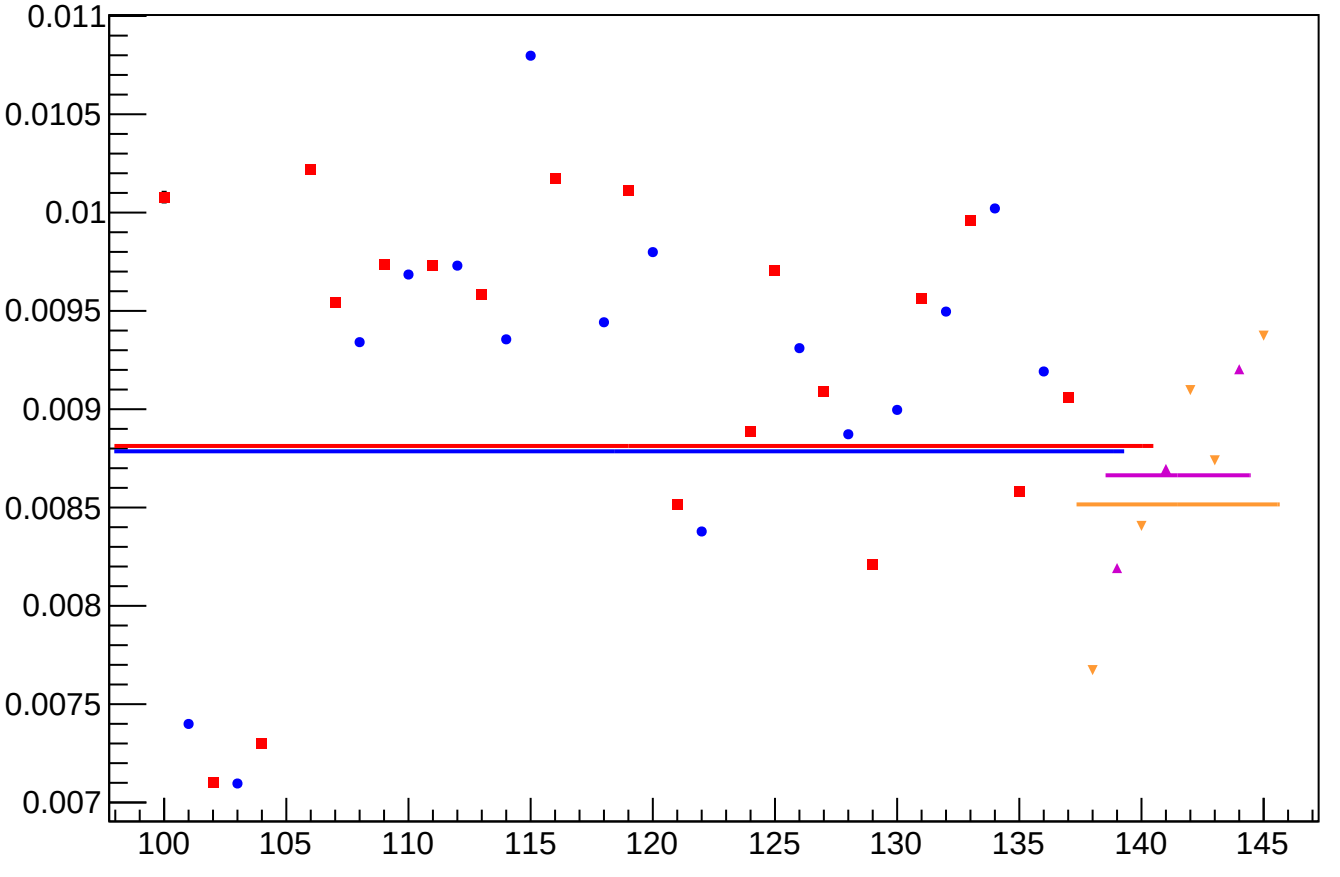
In: 0.012+/-0.000 $\chi^2$/NDF:133525.7/18

Out: 0.012+/-0.000 $\chi^2$/NDF:113283.6/23

All: 0.012+/-0.000 $\chi^2$/NDF: 247448.6/42


yield_bpm0i02aY_mean vs Slug, Sign Corrected
−0.6
−0.8
−1
−1.2
−1.4
−1.6
100
105
110
115
120
125
130
135
140
145
Right In: -1.131+/-0.000 χ²/NDF: 3790121991.7/15
Left Out: -1.386+/-0.000 χ²/NDF:359926659.2/4
Right Out: -1.141+/-0.000 χ²/NDF: 3544012262.4/18
Left In: -1.418+/-0.000 χ²/NDF:333125880.0/2
Left: -1.399+/-0.000 χ²/NDF: 712717839.2/7
Right: -1.136+/-0.000 χ²/NDF: 7338628665.5/34
In: -1.210+/-0.000 χ²/NDF:6137808214.9/18
Out: -1.226+/-0.000 χ²/NDF:5775962059.4/23
All: -1.218+/-0.000 χ²/NDF: 11930981224.5/

# yield_bpm0i02aY_rms vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 173477.6/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:34279.4/4

Right Out: 0.009+/-0.000 $\chi^2$/NDF: 204443.3/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:11377.9/2

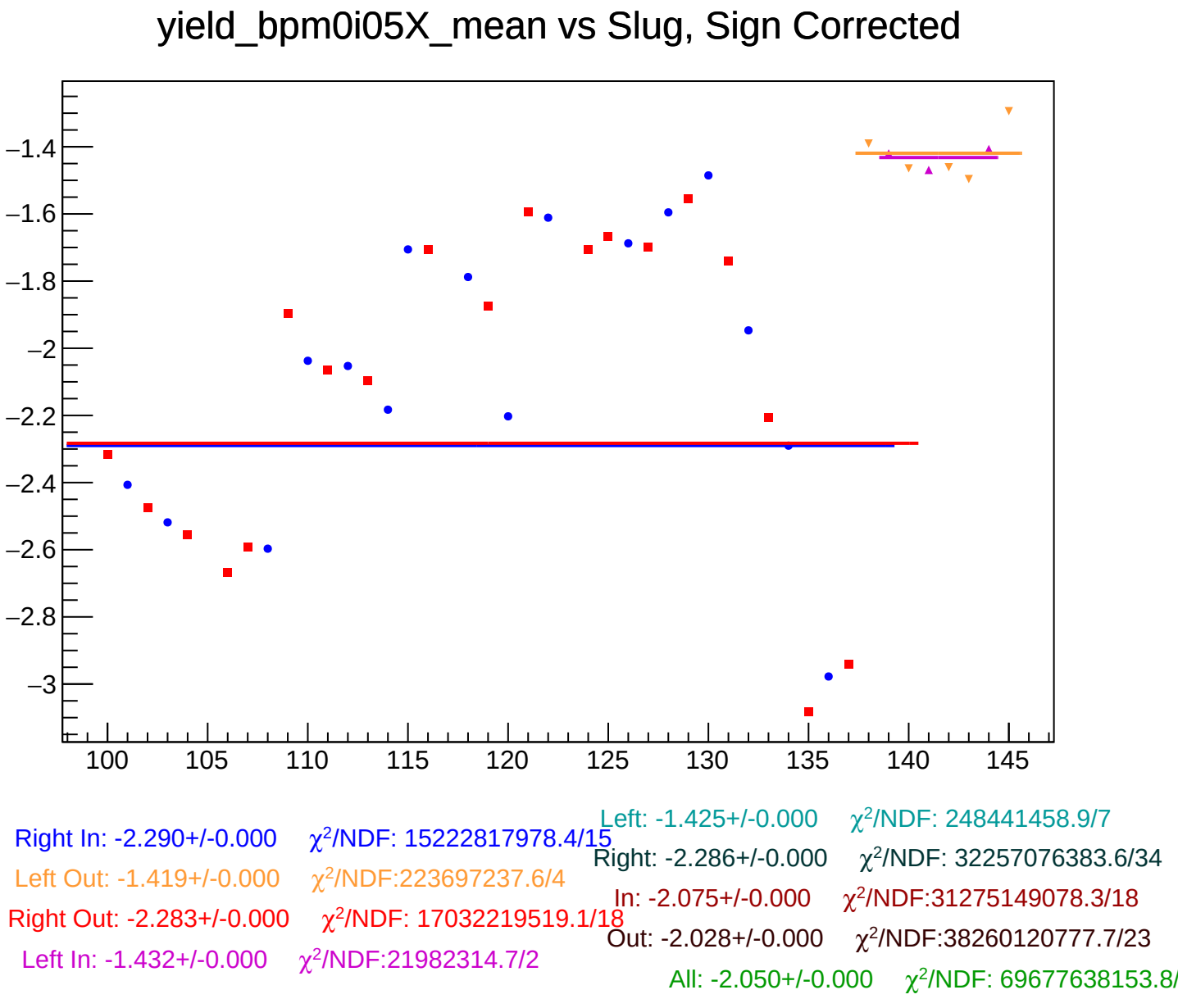
Left: 0.009+/-0.000 $\chi^2$/NDF: 46525.4/7

Right: 0.009+/-0.000 $\chi^2$/NDF: 377987.0/34

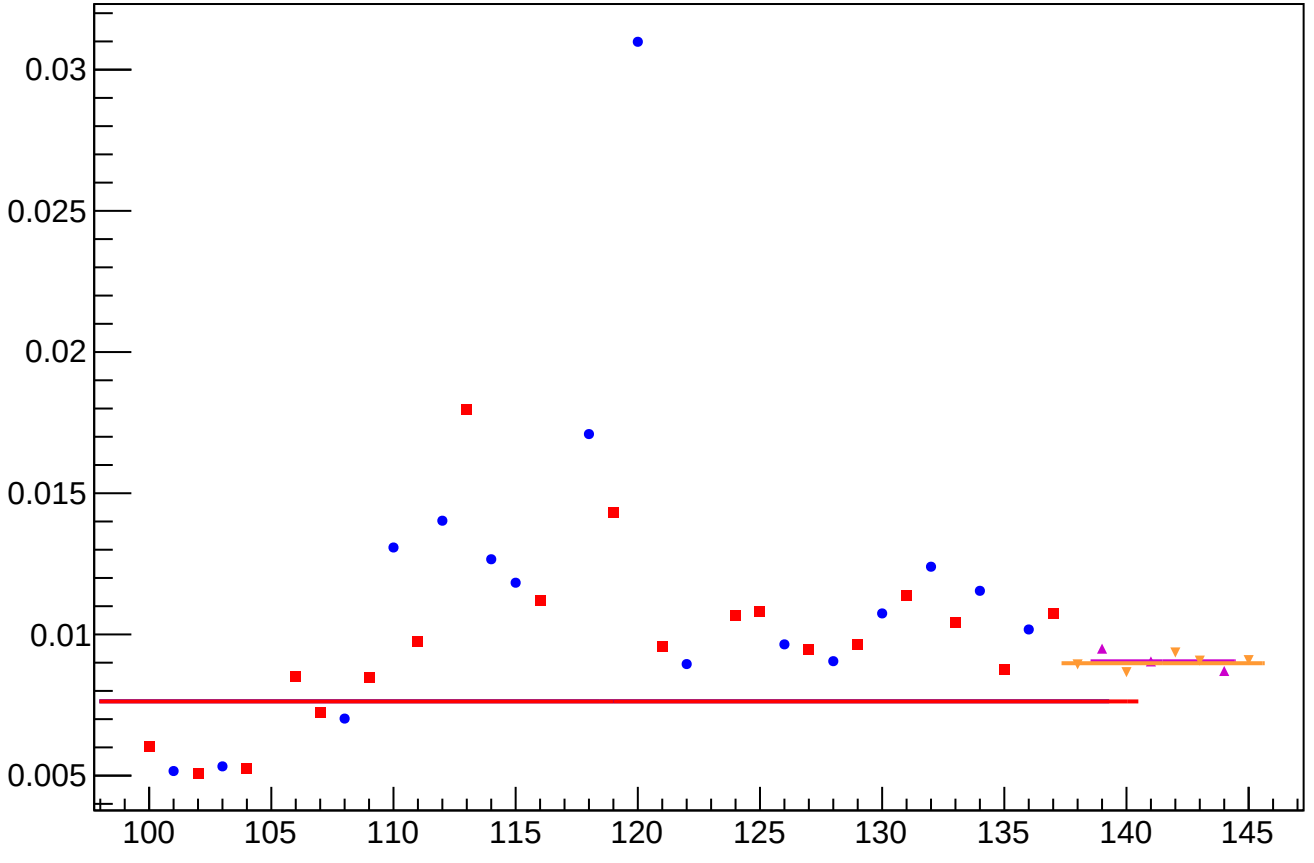
In: 0.009+/-0.000 $\chi^2$/NDF:185583.4/18

Out: 0.009+/-0.000 $\chi^2$/NDF:244221.1/23

All: 0.009+/-0.000 $\chi^2$/NDF: 430039.5/42


yield_bpm0i05X_mean vs Slug, Sign Corrected
−1.4
−1.6
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
100
105
110
115
120
125
130
135
140
145
Right In: -2.290+/-0.000 χ²/NDF: 15222817978.4/15
Left Out: -1.419+/-0.000 χ²/NDF:223697237.6/4
Right Out: -2.283+/-0.000 χ²/NDF: 17032219519.1/18
Left In: -1.432+/-0.000 χ²/NDF:21982314.7/2
Left: -1.425+/-0.000 χ²/NDF: 248441458.9/7
Right: -2.286+/-0.000 χ²/NDF: 32257076383.6/34
In: -2.075+/-0.000 χ²/NDF:31275149078.3/18
Out: -2.028+/-0.000 χ²/NDF:38260120777.7/23
All: -2.050+/-0.000 χ²/NDF: 69677638153.8/

# yield_bpm0i05X_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 1710797.2/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:3717.7/4

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 1317740.1/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:5812.6/2

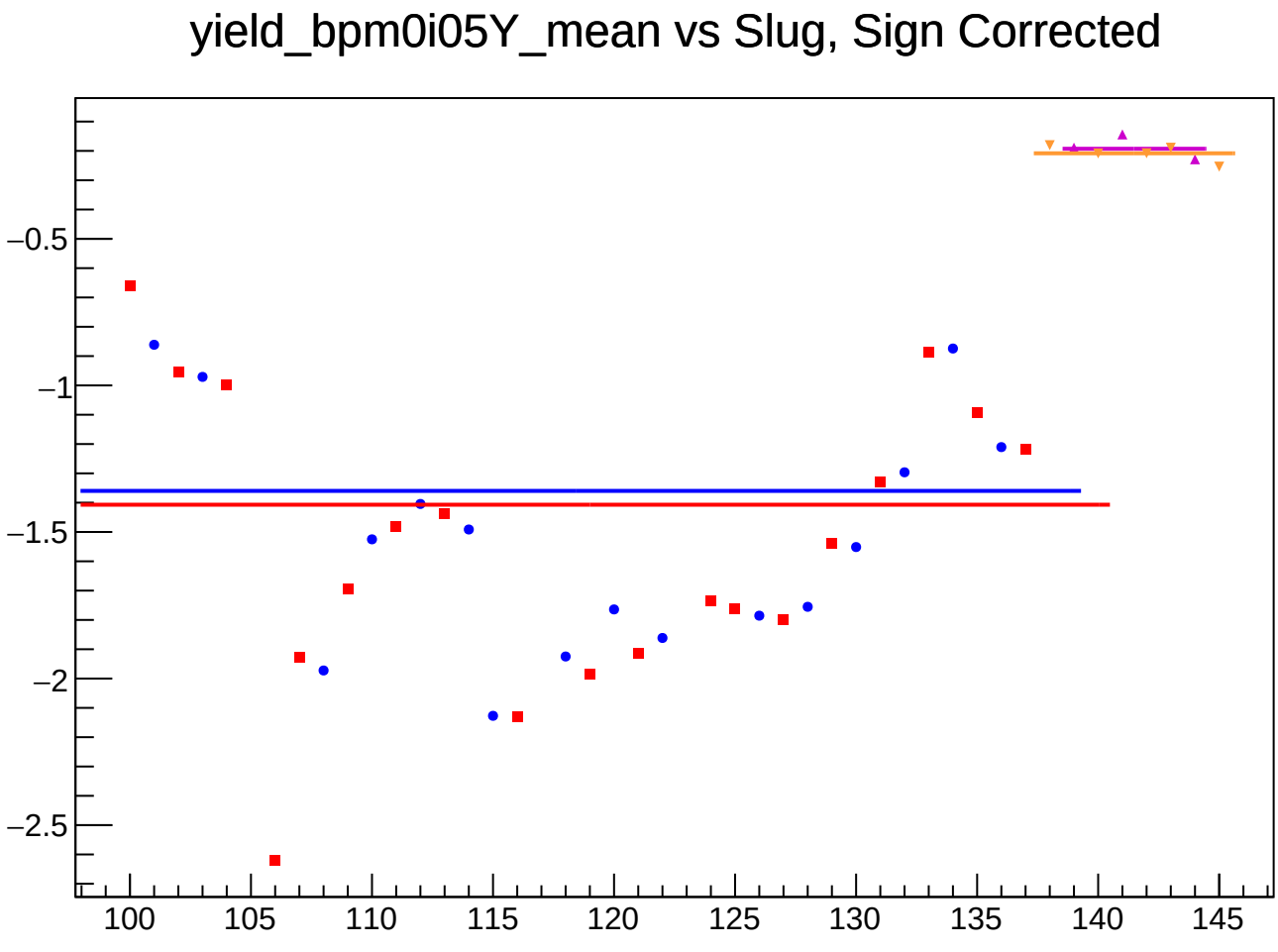
Left: 0.009+/-0.000 $\chi^2$/NDF: 9684.4/7

Right: 0.008+/-0.000 $\chi^2$/NDF: 3028539.8/34

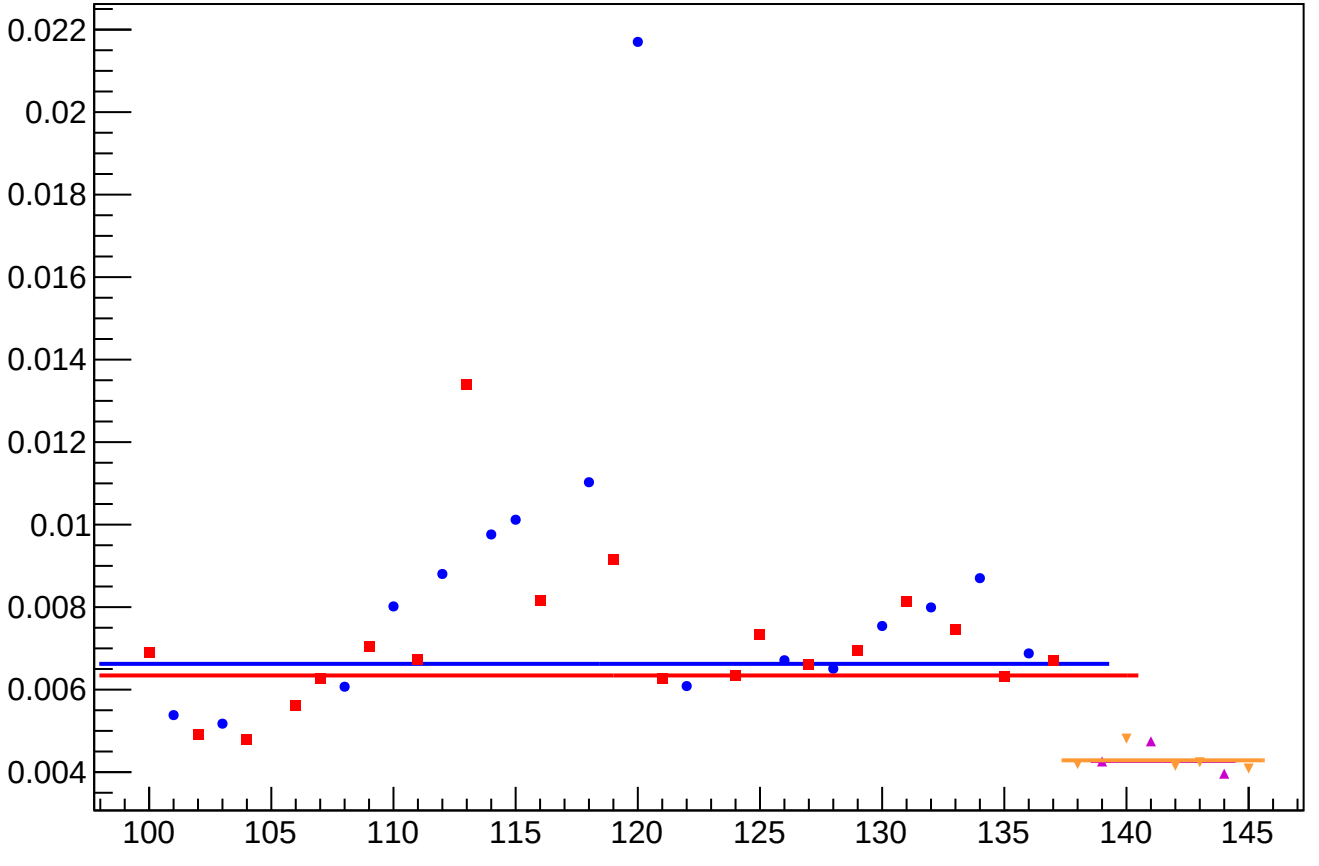
In: 0.008+/-0.000 $\chi^2$/NDF:1803913.9/18

Out: 0.008+/-0.000 $\chi^2$/NDF:1424506.6/23

All: 0.008+/-0.000 $\chi^2$/NDF: 3228630.7/42


yield_bpm0i05Y_mean vs Slug, Sign Corrected
−0.5
−1
−1.5
−2
−2.5
100
105
110
115
120
125
130
135
140
145
Right In: -1.360+/-0.000 χ²/NDF: 21491965614.5/15
Left Out: -0.208+/-0.000 χ²/NDF:135672642.6/4
Right Out: -1.407+/-0.000 χ²/NDF: 29835610413.0/18
Left In: -0.193+/-0.000 χ²/NDF:155345163.9/2
Left: -0.202+/-0.000 χ²/NDF: 309510923.9/7
Right: -1.385+/-0.000 χ²/NDF: 51484688313.9/34
In: -0.773+/-0.000 χ²/NDF:112042869395.2/18
Out: -0.752+/-0.000 χ²/NDF:149397678964.5/23
All: -0.761+/-0.000 χ²/NDF: 261504241582.5

# 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:23449.9/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 529170.9/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:26421.0/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 49907.7/7

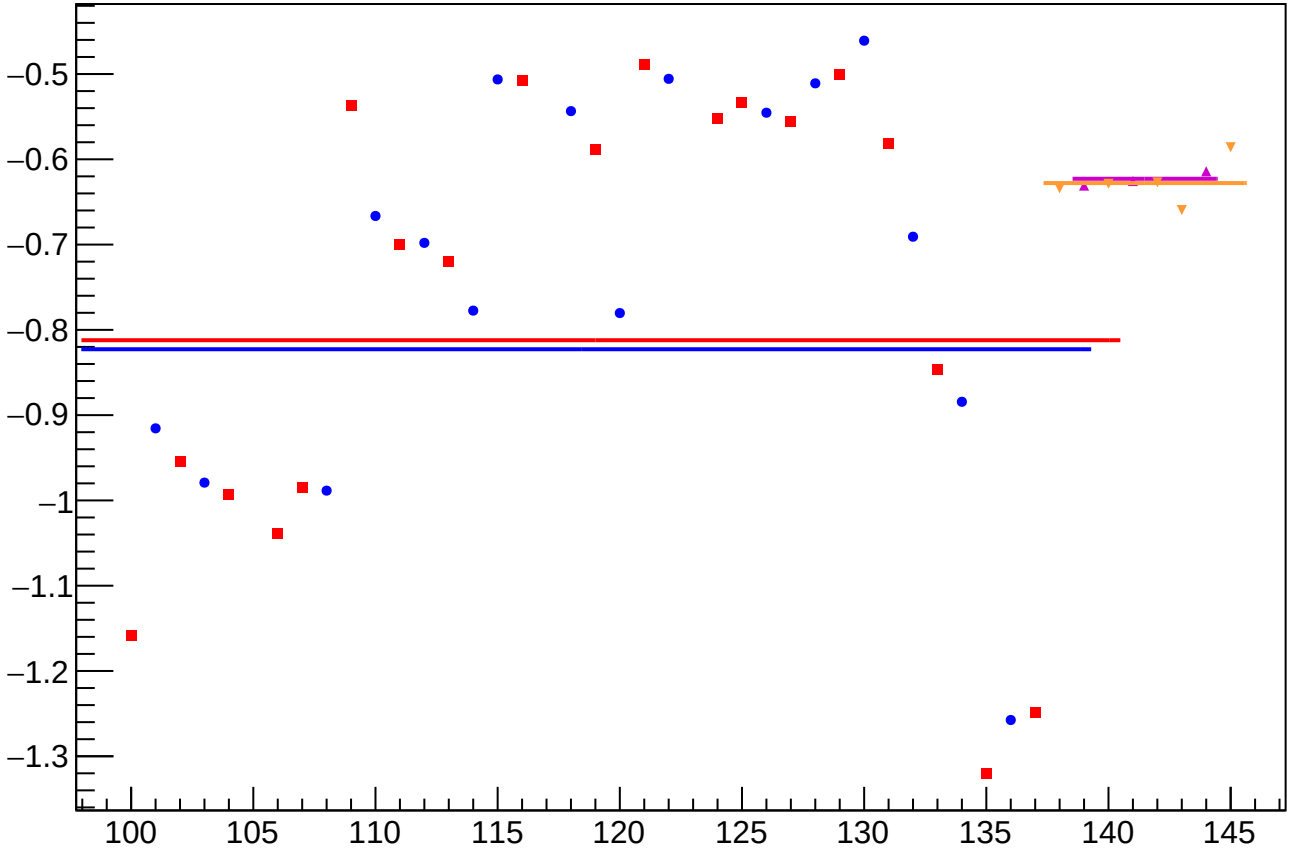
Right: 0.006+/-0.000 $\chi^2$/NDF: 1234142.9/34

In: 0.005+/-0.000 $\chi^2$/NDF:1455802.2/18

Out: 0.005+/-0.000 $\chi^2$/NDF:1256071.5/23

All: 0.005+/-0.000 $\chi^2$/NDF: 2726373.7/42

# yield_bpm0i07X_mean vs Slug, Sign Corrected




Right In: -0.823+/-0.000 $\chi^2$/NDF: 12226599844.5/15

Left Out: -0.628+/-0.000 $\chi^2$/NDF:50941245.3/4

Right Out: -0.812+/-0.000 $\chi^2$/NDF: 14825441332.4/18

Left In: -0.623+/-0.000 $\chi^2$/NDF:2981283.3/2

Left: -0.626+/-0.000 $\chi^2$/NDF: 54830575.9/7

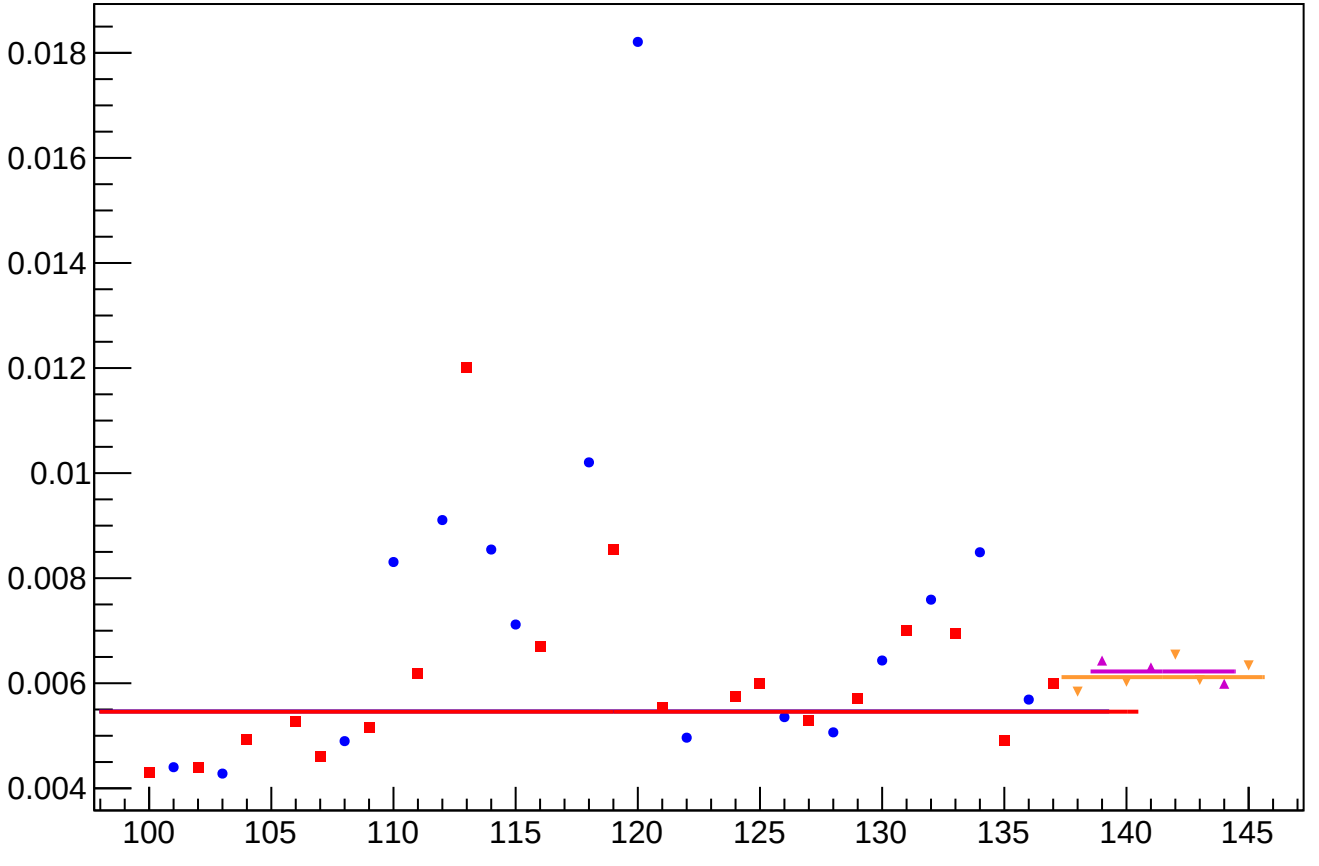
Right: -0.817+/-0.000 $\chi^2$/NDF: 27062819602.4/34

In: -0.773+/-0.000 $\chi^2$/NDF:14051481607.5/18

Out: -0.758+/-0.000 $\chi^2$/NDF:16901027743.8/23

All: -0.765+/-0.000 $\chi^2$/NDF: 30985064961.8/

# yield_bpm0i07X_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 961483.6/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:8387.6/4

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 507792.7/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:4222.5/2

Left: 0.006+/-0.000 $\chi^2$/NDF: 13432.4/7

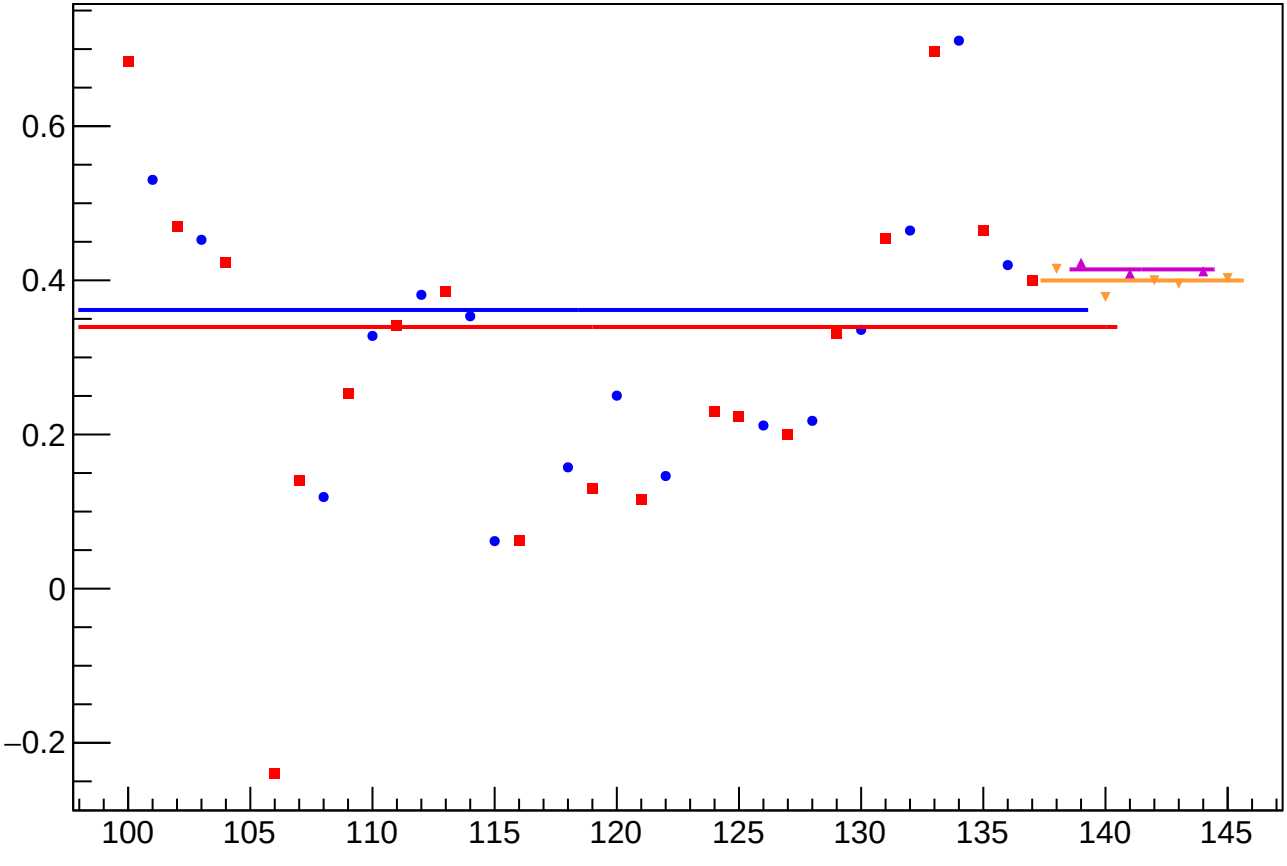
Right: 0.005+/-0.000 $\chi^2$/NDF: 1469281.0/34

In: 0.006+/-0.000 $\chi^2$/NDF:1018477.0/18

Out: 0.006+/-0.000 $\chi^2$/NDF:567781.1/23

All: 0.006+/-0.000 $\chi^2$/NDF: 1586258.9/42

# yield_bpm0i07Y_mean vs Slug, Sign Corrected




Right In: 0.362+/-0.000 $\chi^2$/NDF: 8775952187.9/15

Left Out: 0.400+/-0.000 $\chi^2$/NDF:24818486.3/4

Right Out: 0.339+/-0.000 $\chi^2$/NDF: 12071802789.9/18

Left In: 0.414+/-0.000 $\chi^2$/NDF:4262065.9/2

Left: 0.406+/-0.000 $\chi^2$/NDF: 44474470.8/7

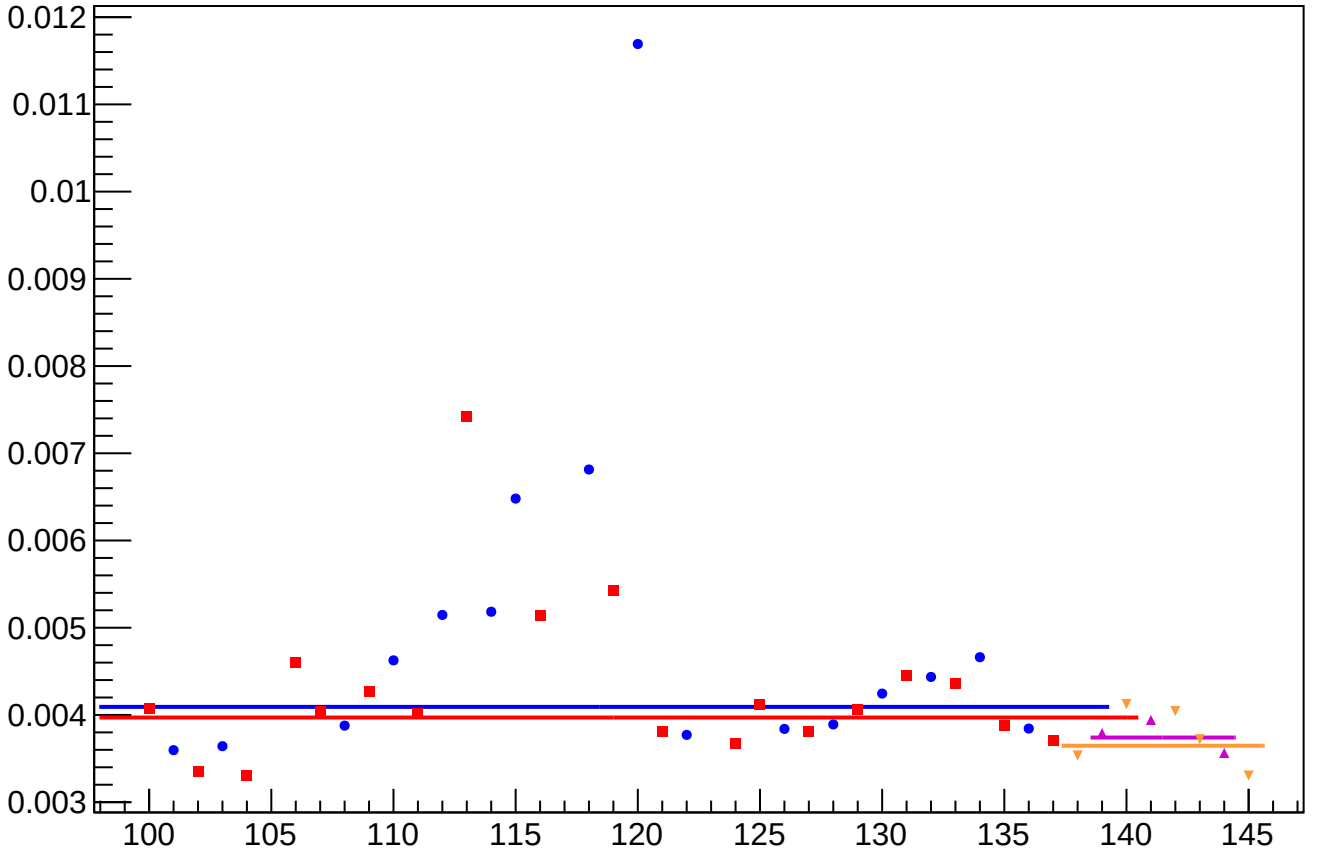
Right: 0.350+/-0.000 $\chi^2$/NDF: 20941665635.5/34

In: 0.375+/-0.000 $\chi^2$/NDF:9037981886.7/18

Out: 0.358+/-0.000 $\chi^2$/NDF:12560119229.3/23

All: 0.366+/-0.000 $\chi^2$/NDF: 21671906414.6/4

# yield_bpm0i07Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 491748.3/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:34298.0/4

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 313701.1/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:6305.4/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 41918.6/7

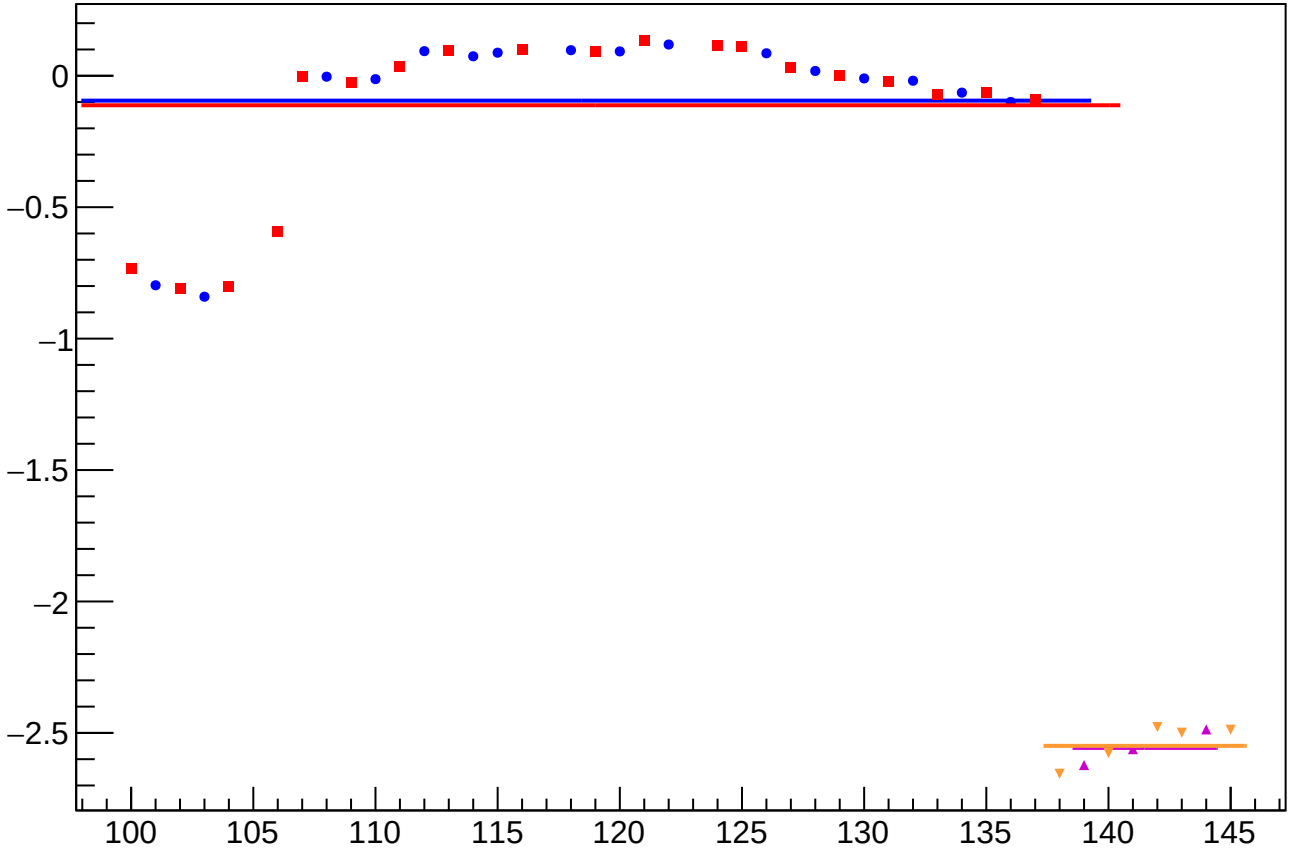
Right: 0.004+/-0.000 $\chi^2$/NDF: 811192.6/34

In: 0.004+/-0.000 $\chi^2$/NDF:521073.7/18

Out: 0.004+/-0.000 $\chi^2$/NDF:374626.8/23

All: 0.004+/-0.000 $\chi^2$/NDF: 905315.8/42

# yield_bpm1i02X_mean vs Slug, Sign Corrected




Right In: -0.095+/-0.000 $\chi^2$/NDF: 5489721985.1/15

Left Out: -2.549+/-0.000 $\chi^2$/NDF:89716942.5/4

Right Out: -0.112+/-0.000 $\chi^2$/NDF: 6190163375.6/18

Left In: -2.557+/-0.000 $\chi^2$/NDF:43233923.3/2

Left: -2.553+/-0.000 $\chi^2$/NDF: 133425945.6/7

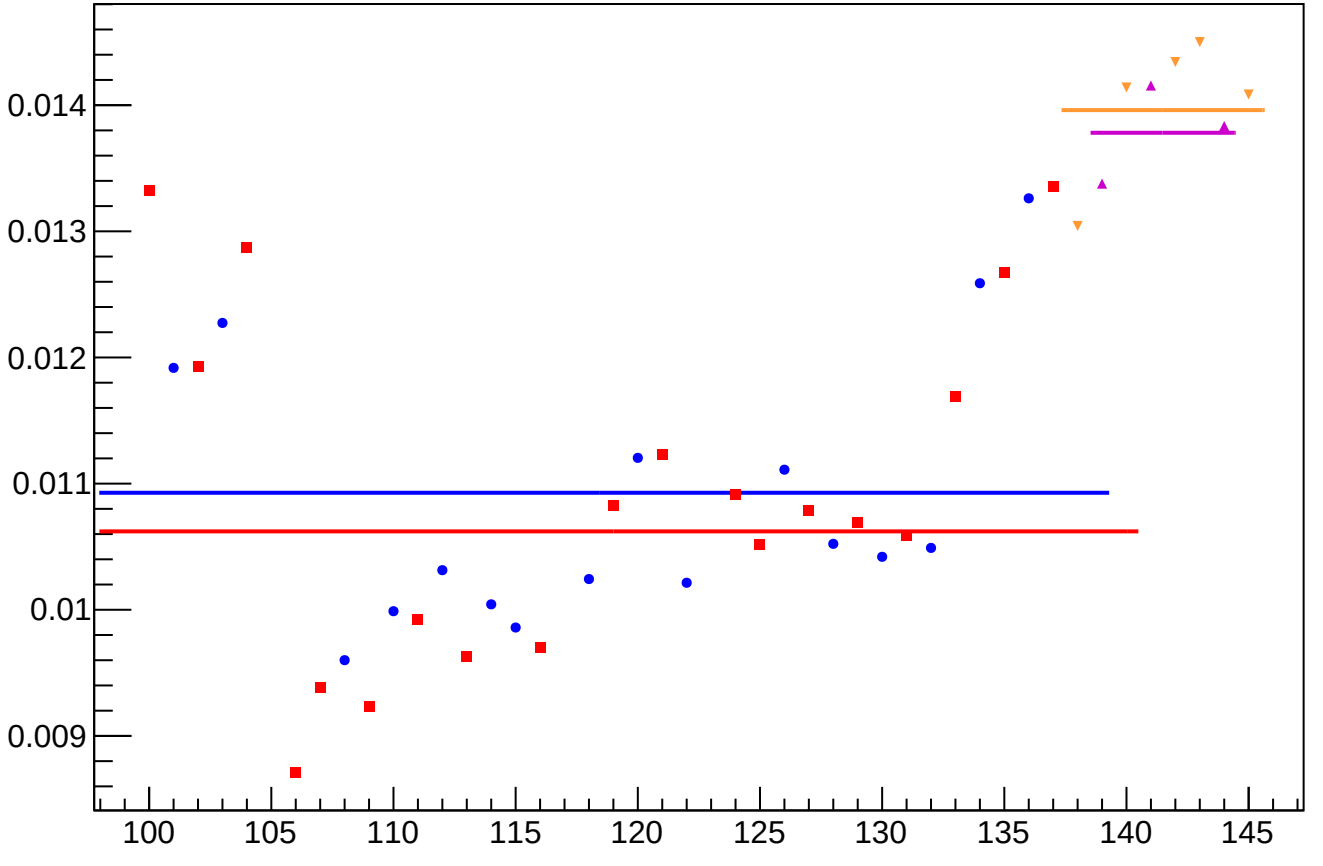
Right: -0.104+/-0.000 $\chi^2$/NDF: 11689577002.2/34

In: -0.556+/-0.000 $\chi^2$/NDF:73367940115.2/18

Out: -0.655+/-0.000 $\chi^2$/NDF:92649121840.3/23

All: -0.609+/-0.000 $\chi^2$/NDF: 166394569625.7

# yield_bpm1i02X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 136478.1/15

Left Out: 0.014+/-0.000 $\chi^2$/NDF:10842.0/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 190526.1/18

Left In: 0.014+/-0.000 $\chi^2$/NDF:2791.2/2

Left: 0.014+/-0.000 $\chi^2$/NDF: 14144.7/7

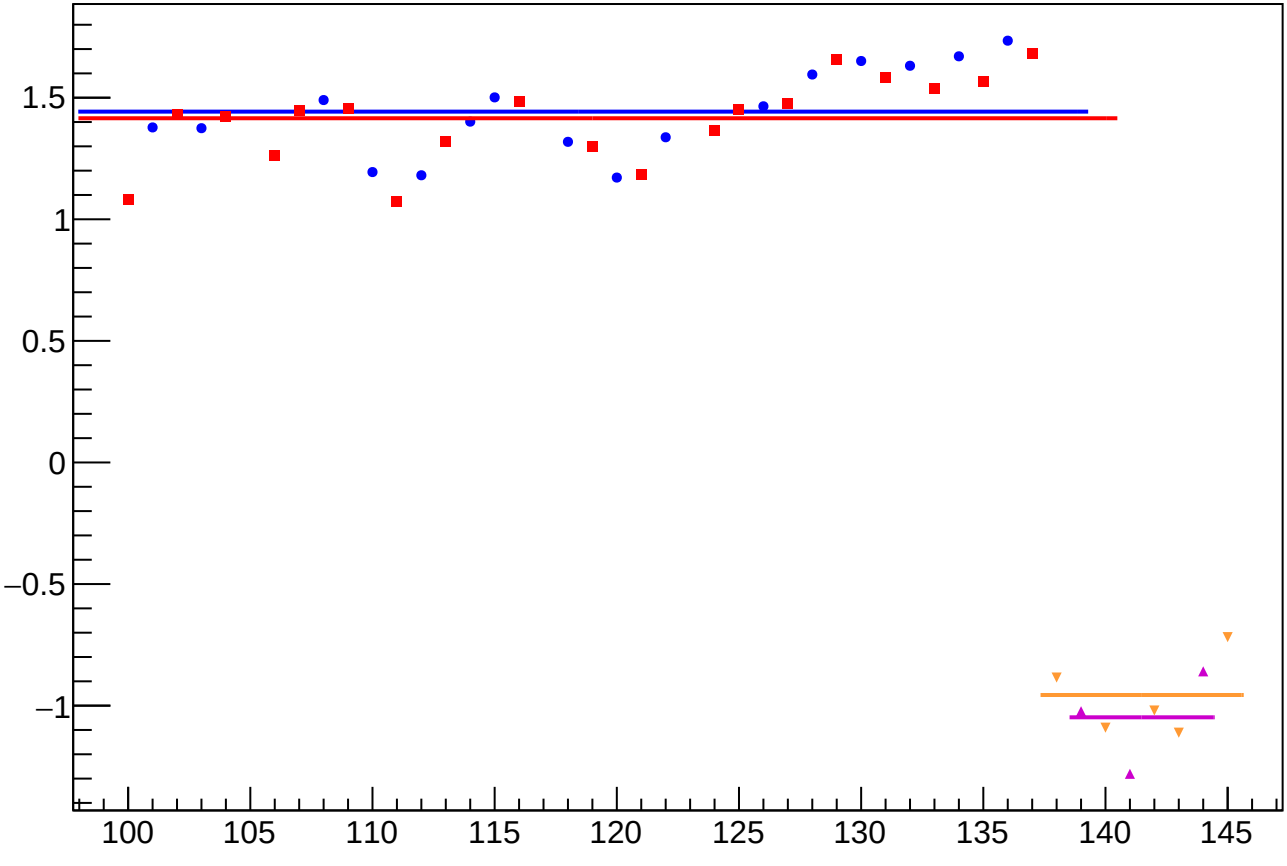
Right: 0.011+/-0.000 $\chi^2$/NDF: 332847.6/34

In: 0.011+/-0.000 $\chi^2$/NDF:321495.2/18

Out: 0.011+/-0.000 $\chi^2$/NDF:525721.0/23

All: 0.011+/-0.000 $\chi^2$/NDF: 847971.2/42

# yield_bpm1i02Y_mean vs Slug, Sign Corrected




Right In: 1.443+/-0.000 $\chi^2$/NDF: 3739724691.1/15

Left Out: -0.956+/-0.000 $\chi^2$/NDF:776769357.0/4

Right Out: 1.415+/-0.000 $\chi^2$/NDF: 2803466123.0/18

Left In: -1.048+/-0.000 $\chi^2$/NDF:687271661.2/2

Left: -0.994+/-0.000 $\chi^2$/NDF: 1581547232.2/7

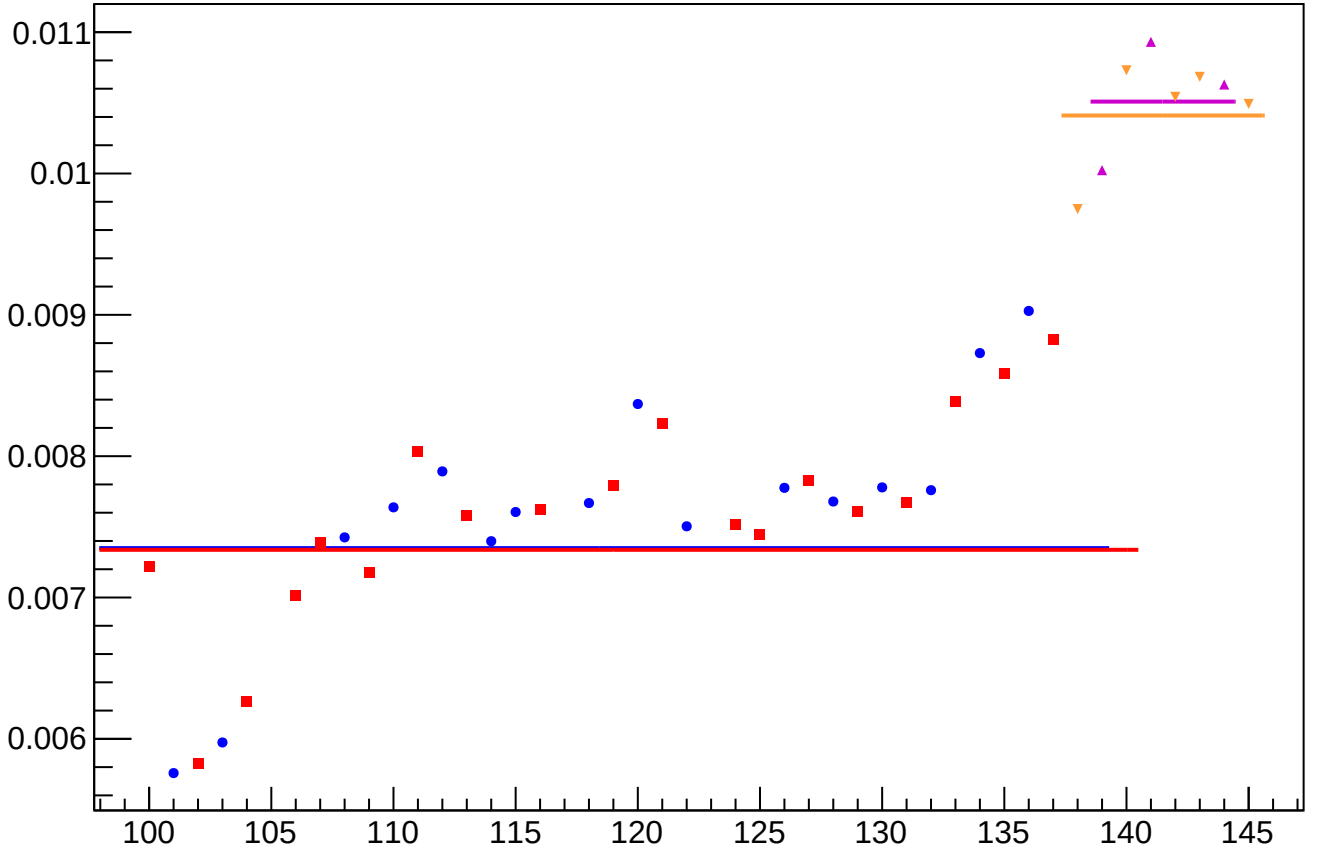
Right: 1.429+/-0.000 $\chi^2$/NDF: 6593016759.0/34

In: 1.060+/-0.000 $\chi^2$/NDF:129067418577.5/18

Out: 0.945+/-0.000 $\chi^2$/NDF:156318301371.4/23

All: 1.000+/-0.000 $\chi^2$/NDF: 286460662524.3

# yield_bpm1i02Y_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 270864.2/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:9948.7/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 195372.6/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:6828.4/2

Left: 0.010+/-0.000 $\chi^2$/NDF: 17046.9/7

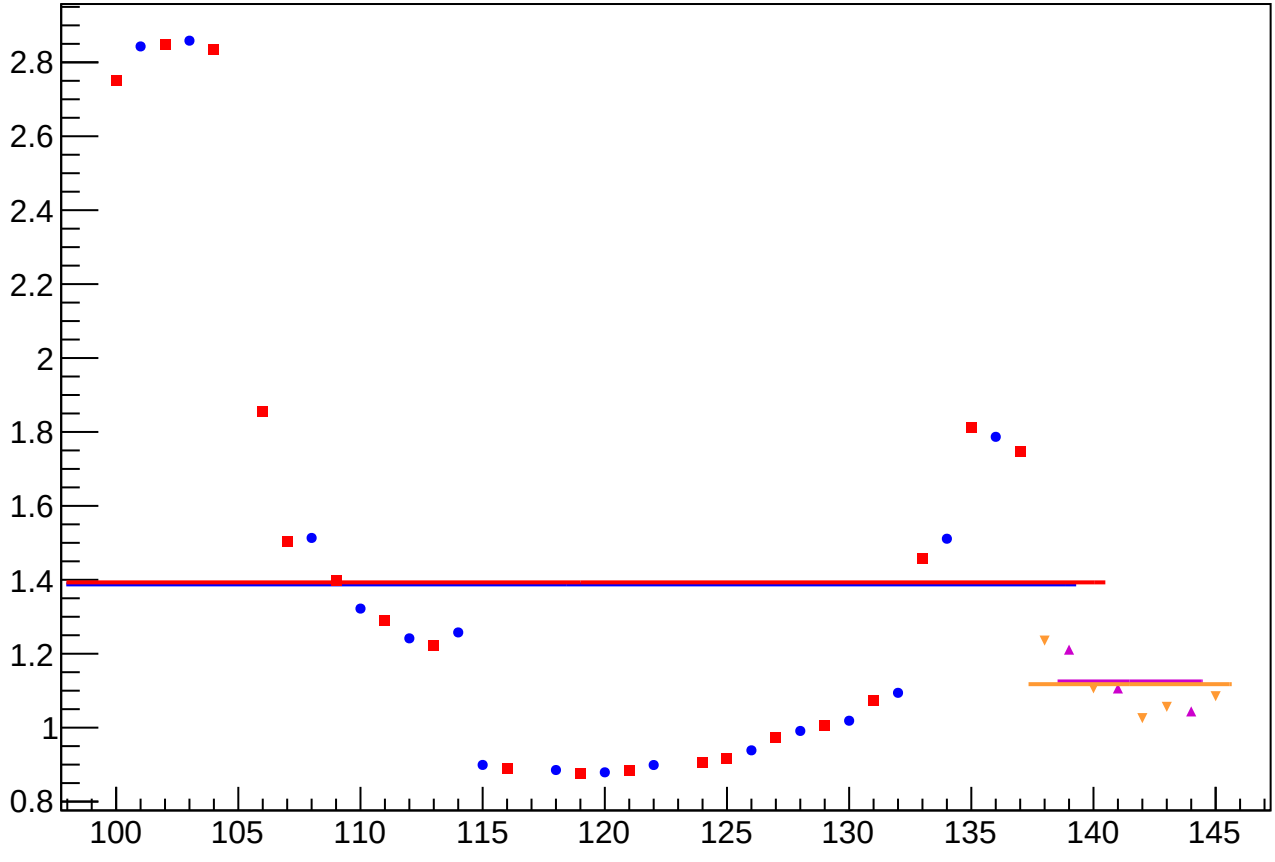
Right: 0.007+/-0.000 $\chi^2$/NDF: 466255.6/34

In: 0.008+/-0.000 $\chi^2$/NDF:678773.1/18

Out: 0.008+/-0.000 $\chi^2$/NDF:718125.5/23

All: 0.008+/-0.000 $\chi^2$/NDF: 1398946.2/42

# yield_bpm1i04X_mean vs Slug, Sign Corrected




Right In: 1.388+/-0.000 $\chi^2$/NDF: 58612635453.0/15

Left Out: 1.118+/-0.000 $\chi^2$/NDF:290887957.3/4

Right Out: 1.393+/-0.000 $\chi^2$/NDF: 55365724659.7/18

Left In: 1.125+/-0.000 $\chi^2$/NDF:190328691.7/2

Left: 1.121+/-0.000 $\chi^2$/NDF: 482401748.8/7

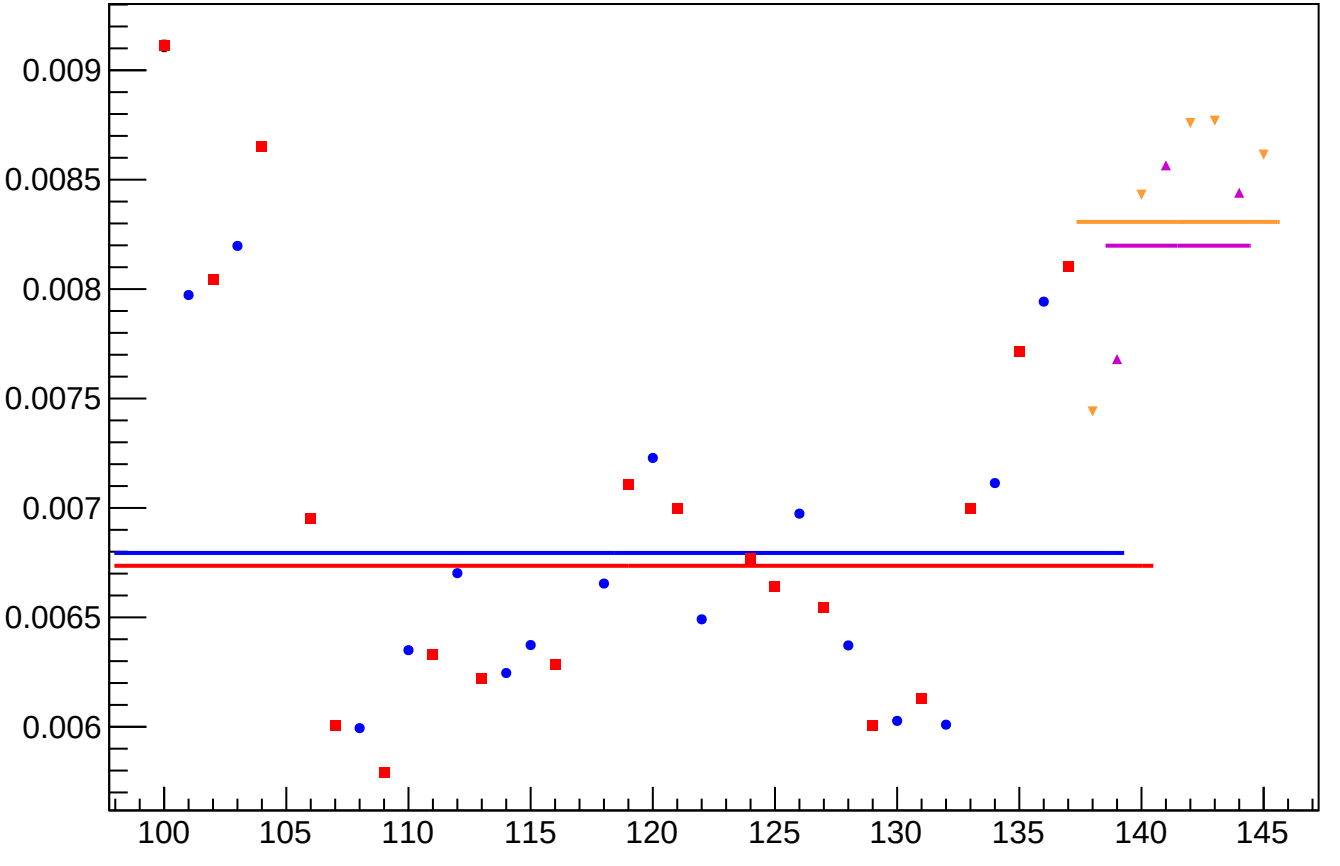
Right: 1.390+/-0.000 $\chi^2$/NDF: 113980694957.7/34

In: 1.335+/-0.000 $\chi^2$/NDF:60923933662.4/18

Out: 1.326+/-0.000 $\chi^2$/NDF:58628999054.9/23

All: 1.331+/-0.000 $\chi^2$/NDF: 119560484393.5

# yield_bpm1i04X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 164456.7/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:29725.5/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 198492.7/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:12280.0/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 42526.0/7

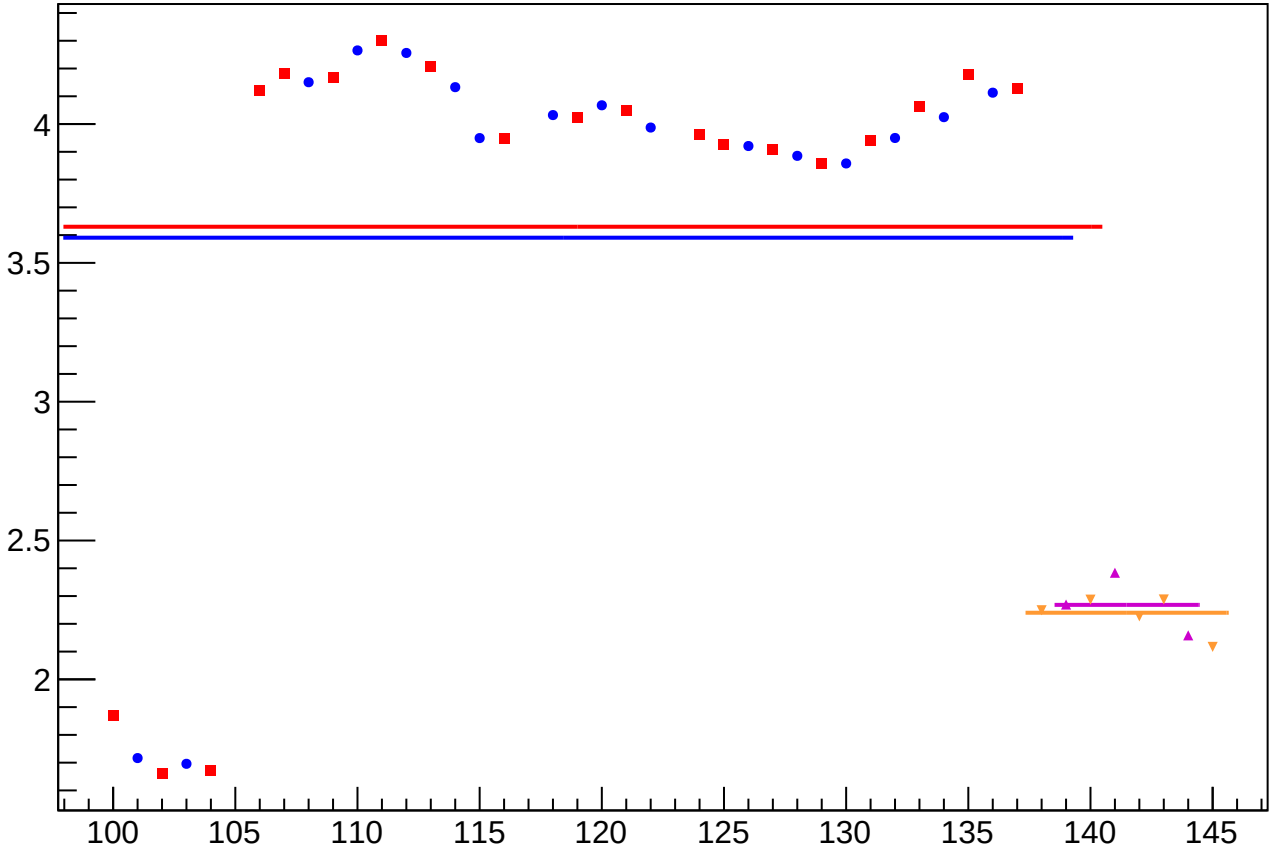
Right: 0.007+/-0.000 $\chi^2$/NDF: 363493.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:297976.5/18

Out: 0.007+/-0.000 $\chi^2$/NDF:421770.0/23

All: 0.007+/-0.000 $\chi^2$/NDF: 720078.4/42

# yield_bpm1i04Y_mean vs Slug, Sign Corrected




Right In: 3.591+/-0.000 $\chi^2$/NDF: 202184644473.7/15

Left Out: 2.240+/-0.000 $\chi^2$/NDF:247909191.2/4

Right Out: 3.630+/-0.000 $\chi^2$/NDF: 212588390342.3/18

Left In: 2.268+/-0.000 $\chi^2$/NDF:397999855.1/2

Left: 2.252+/-0.000 $\chi^2$/NDF: 668108573.5/7

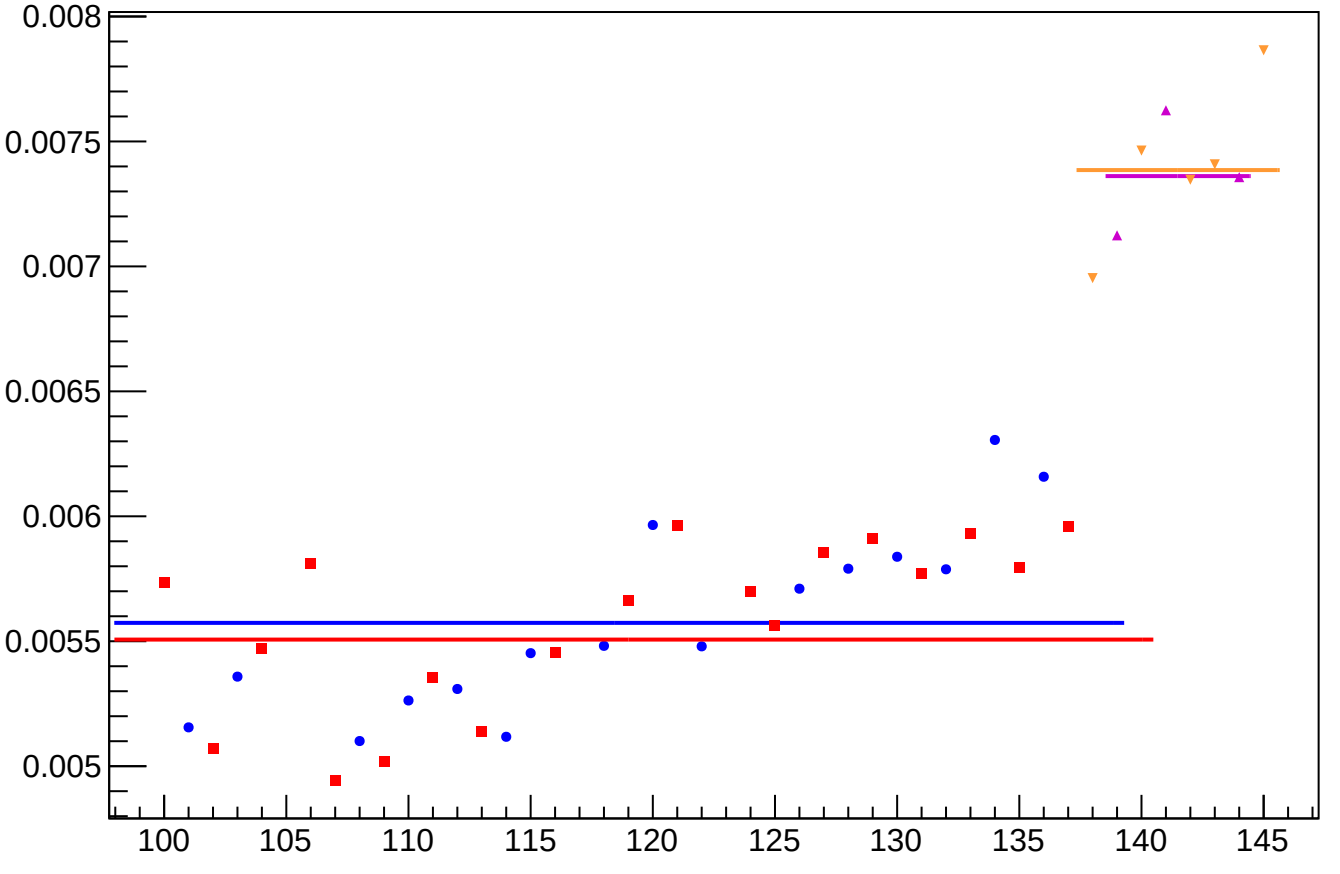
Right: 3.611+/-0.000 $\chi^2$/NDF: 414956393826.7/34

In: 3.363+/-0.000 $\chi^2$/NDF:271946558086.2/18

Out: 3.333+/-0.000 $\chi^2$/NDF:312177584036.6/23

All: 3.348+/-0.000 $\chi^2$/NDF: 584255041519.5

# yield_bpm1i04Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 59130.1/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:11556.6/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 57427.9/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:3965.0/2

Left: 0.007+/-0.000 $\chi^2$/NDF: 15553.6/7

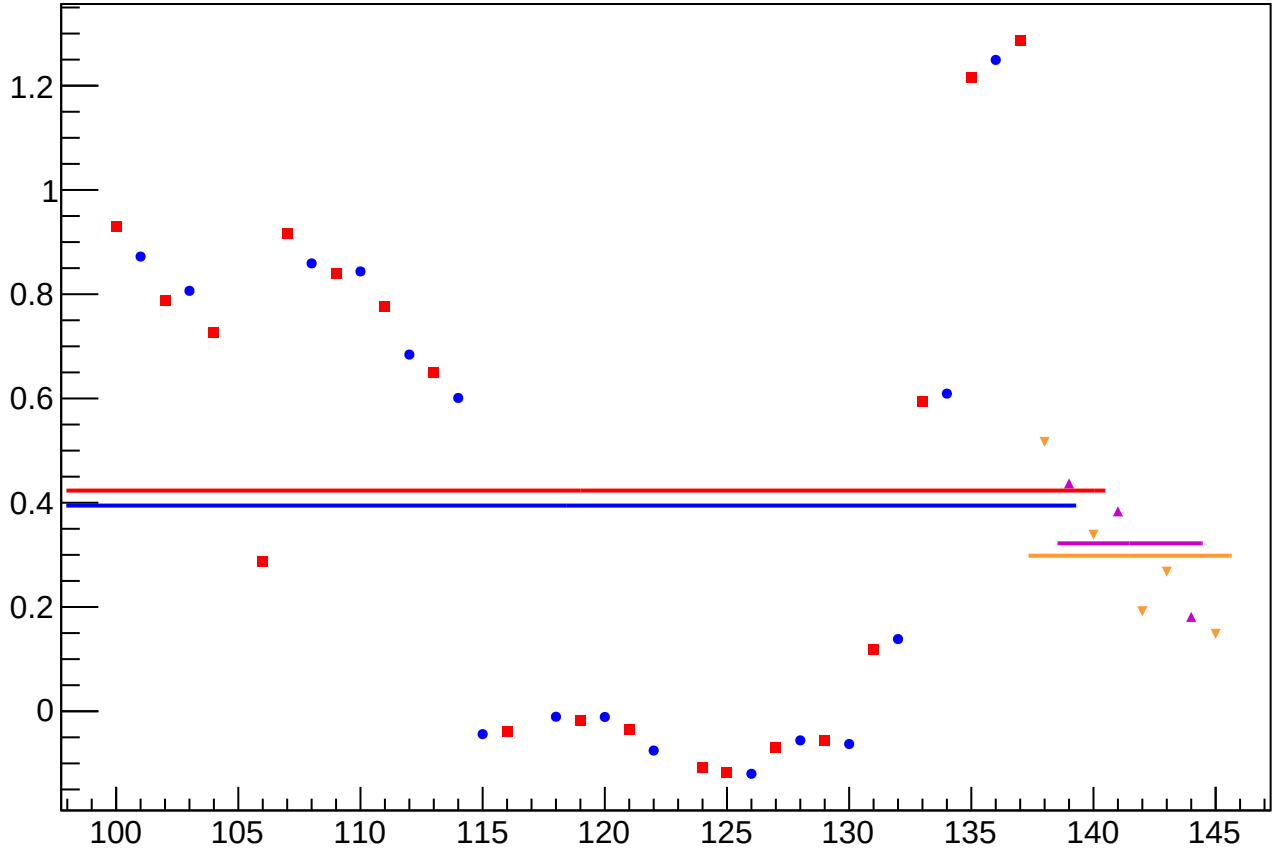
Right: 0.006+/-0.000 $\chi^2$/NDF: 117612.2/34

In: 0.006+/-0.000 $\chi^2$/NDF:316640.1/18

Out: 0.006+/-0.000 $\chi^2$/NDF:431845.4/23

All: 0.006+/-0.000 $\chi^2$/NDF: 748695.0/42

# yield_bpm1i06X_mean vs Slug, Sign Corrected




Right In: 0.395+/-0.000 $\chi^2$/NDF: 7412548044.8/15

Left Out: 0.298+/-0.000 $\chi^2$/NDF:246814364.5/4

Right Out: 0.423+/-0.000 $\chi^2$/NDF: 6904060515.1/18

Left In: 0.322+/-0.000 $\chi^2$/NDF:133467264.9/2

Left: 0.308+/-0.000 $\chi^2$/NDF: 383649187.3/7

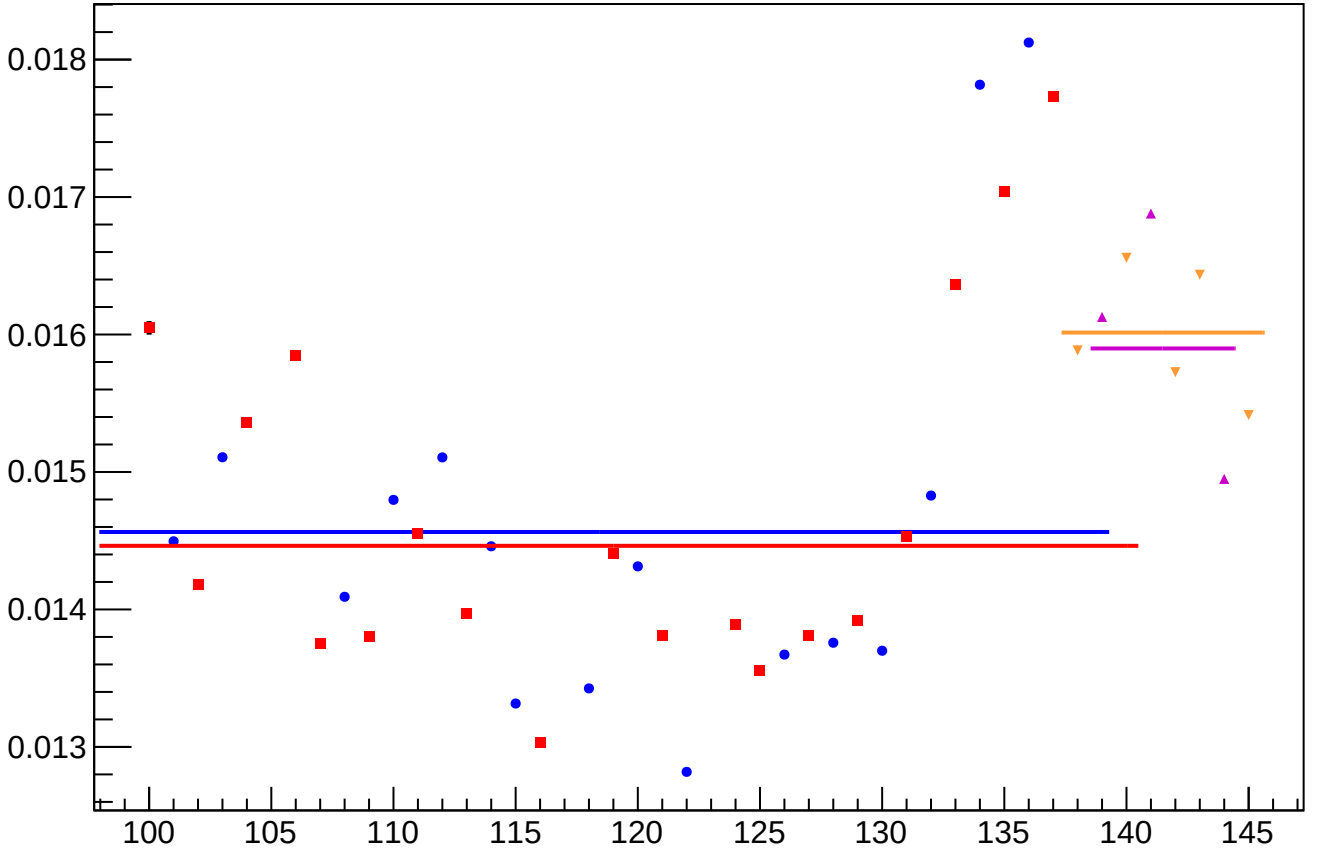
Right: 0.409+/-0.000 $\chi^2$/NDF: 14330729641.2/34

In: 0.378+/-0.000 $\chi^2$/NDF:7587333817.2/18

Out: 0.387+/-0.000 $\chi^2$/NDF:7308091431.1/23

All: 0.383+/-0.000 $\chi^2$/NDF: 14897596875.4/4

# yield_bpm1i06X_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 133134.7/15

Left Out: 0.016+/-0.000 $\chi^2$/NDF:5661.2/4

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 77396.3/18

Left In: 0.016+/-0.000 $\chi^2$/NDF:13453.9/2

Left: 0.016+/-0.000 $\chi^2$/NDF: 19274.8/7

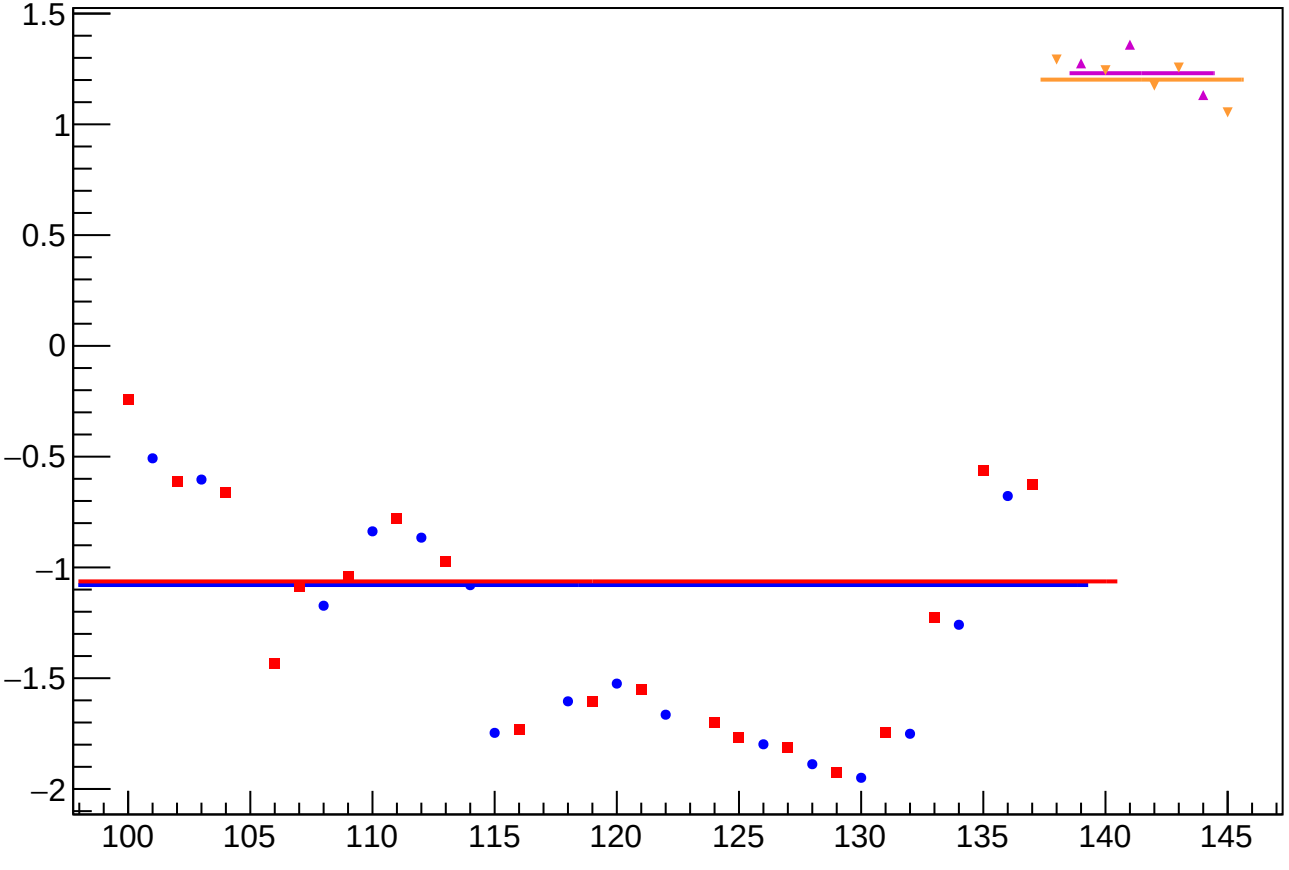
Right: 0.015+/-0.000 $\chi^2$/NDF: 210877.4/34

In: 0.015+/-0.000 $\chi^2$/NDF:174647.9/18

Out: 0.015+/-0.000 $\chi^2$/NDF:131504.3/23

All: 0.015+/-0.000 $\chi^2$/NDF: 306204.0/42

# yield_bpm1i06Y_mean vs Slug, Sign Corrected




Right In: -1.079+/-0.000 $\chi^2$/NDF: 59756571764.5/15

Left Out: 1.202+/-0.000 $\chi^2$/NDF:1880484742.8/4

Right Out: -1.063+/-0.000 $\chi^2$/NDF: 49910403943.5/18

Left In: 1.231+/-0.000 $\chi^2$/NDF:1507368178.4/2

Left: 1.214+/-0.000 $\chi^2$/NDF: 3468417305.2/7

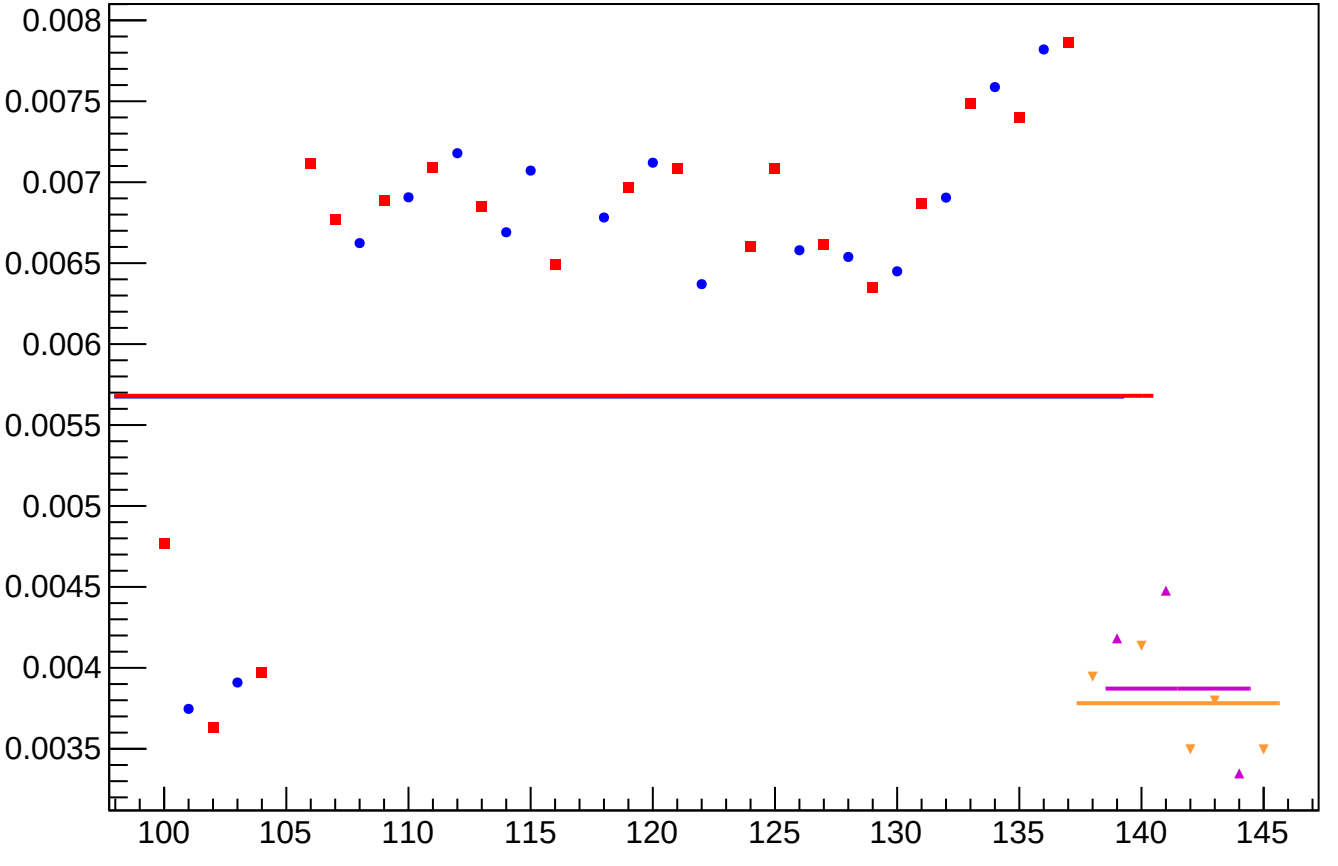
Right: -1.071+/-0.000 $\chi^2$/NDF: 109693375141.4/34

In: -0.037+/-0.000 $\chi^2$/NDF:537031472373.3/18

Out: 0.164+/-0.000 $\chi^2$/NDF:607291083304.1/23

All: 0.073+/-0.000 $\chi^2$/NDF: 1152338081976.

# 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:28833.2/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 980583.9/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:80445.7/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 110848.8/7

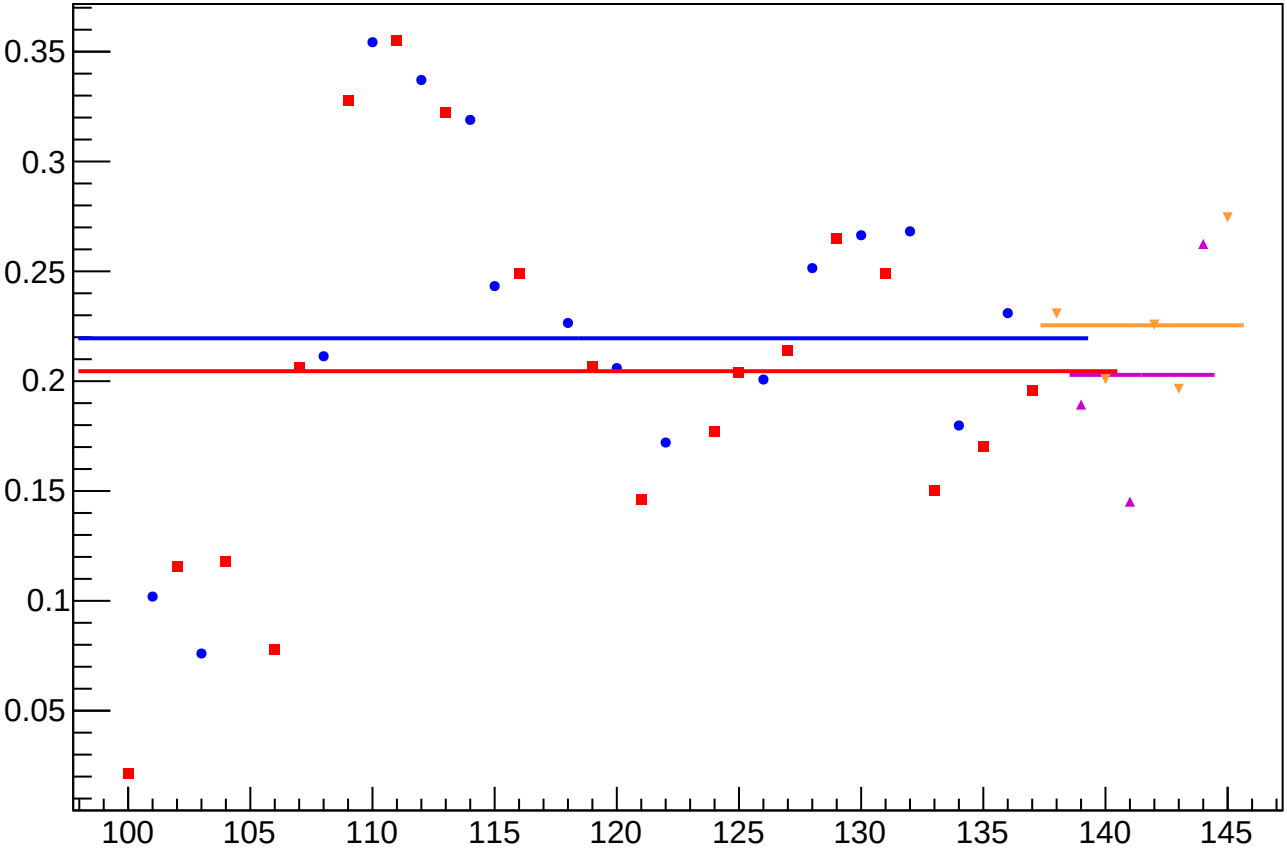
Right: 0.006+/-0.000 $\chi^2$/NDF: 1925411.0/34

In: 0.005+/-0.000 $\chi^2$/NDF:1605574.3/18

Out: 0.005+/-0.000 $\chi^2$/NDF:1790386.9/23

All: 0.005+/-0.000 $\chi^2$/NDF: 3413470.8/42

# yield_bpm2i01X_mean vs Slug, Sign Corrected




Right In: 0.220+/-0.000 $\chi^2$/NDF: 16729743257.8/15

Left Out: 0.225+/-0.000 $\chi^2$/NDF:1683492985.5/4

Right Out: 0.205+/-0.000 $\chi^2$/NDF: 22312377506.1/18

Left In: 0.203+/-0.000 $\chi^2$/NDF:3435259545.3/2

Left: 0.216+/-0.000 $\chi^2$/NDF: 5530518136.0/7

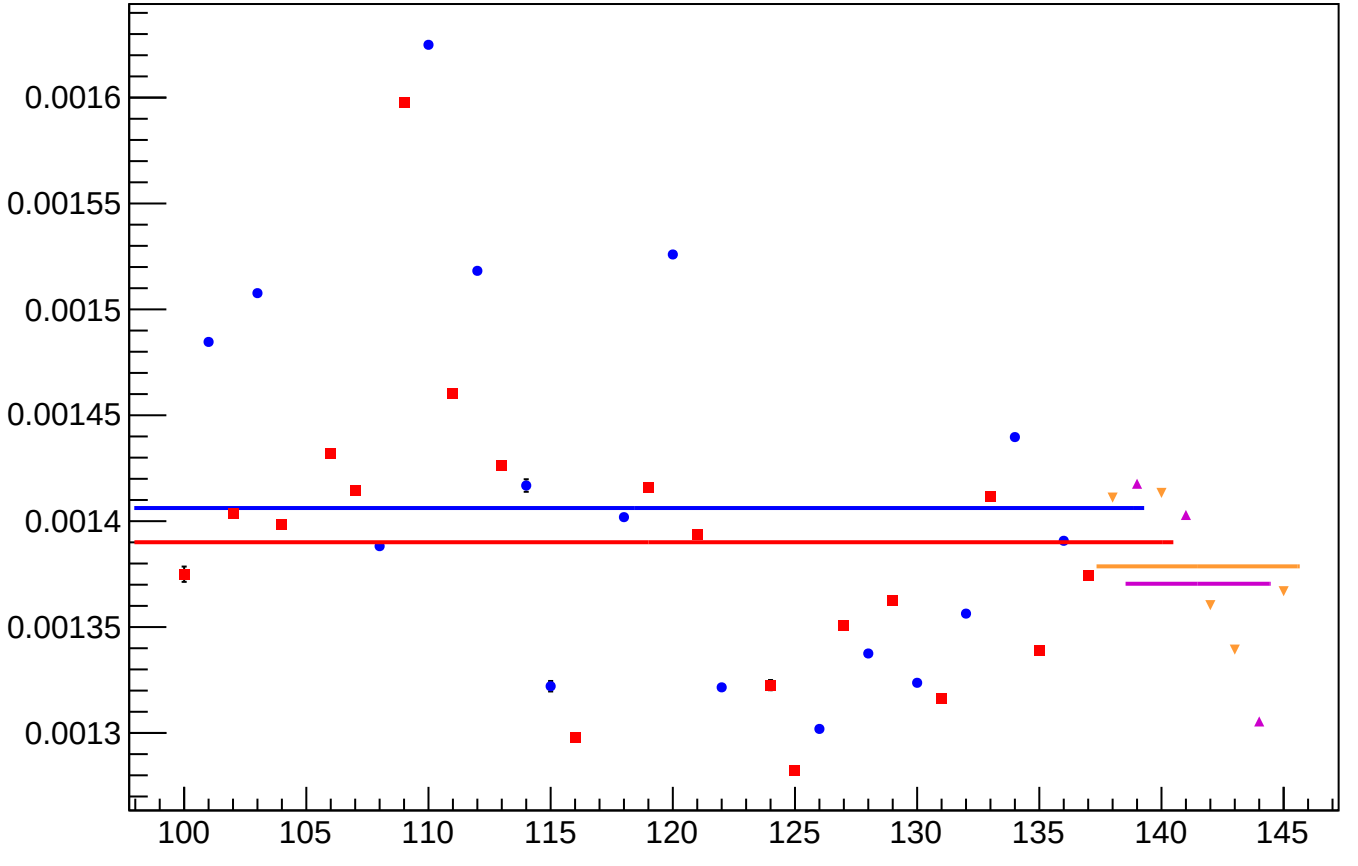
Right: 0.212+/-0.000 $\chi^2$/NDF: 39451425816.8/34

In: 0.215+/-0.000 $\chi^2$/NDF:20441271752.1/18

Out: 0.212+/-0.000 $\chi^2$/NDF:24554505737.8/23

All: 0.213+/-0.000 $\chi^2$/NDF: 45023014555.5/4

# 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:3503.3/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 34786.9/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:7265.9/2

Left: 0.001+/-0.000 $\chi^2$/NDF: 10878.2/7

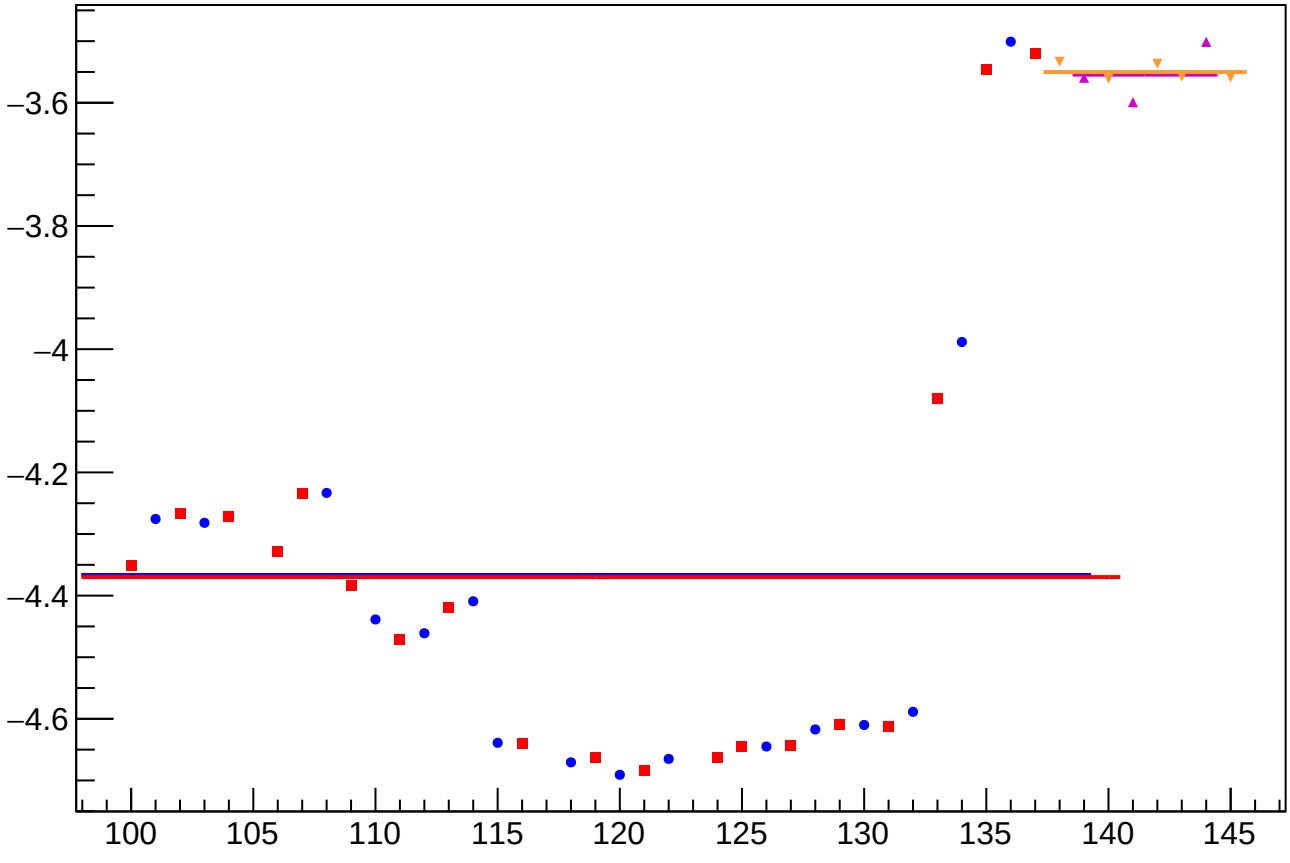
Right: 0.001+/-0.000 $\chi^2$/NDF: 83938.6/34

In: 0.001+/-0.000 $\chi^2$/NDF:58015.3/18

Out: 0.001+/-0.000 $\chi^2$/NDF:38622.2/23

All: 0.001+/-0.000 $\chi^2$/NDF: 97148.0/42

# yield_bpm2i01Y_mean vs Slug, Sign Corrected




Right In: -4.367+/-0.000 $\chi^2$/NDF: 353013303743.6/15

Left Out: -3.550+/-0.000 $\chi^2$/NDF:157958390.4/4

Right Out: -4.370+/-0.000 $\chi^2$/NDF: 296136368274.3/18

Left In: -3.554+/-0.000 $\chi^2$/NDF:1227232308.7/2

Left: -3.552+/-0.000 $\chi^2$/NDF: 1393383071.6/7

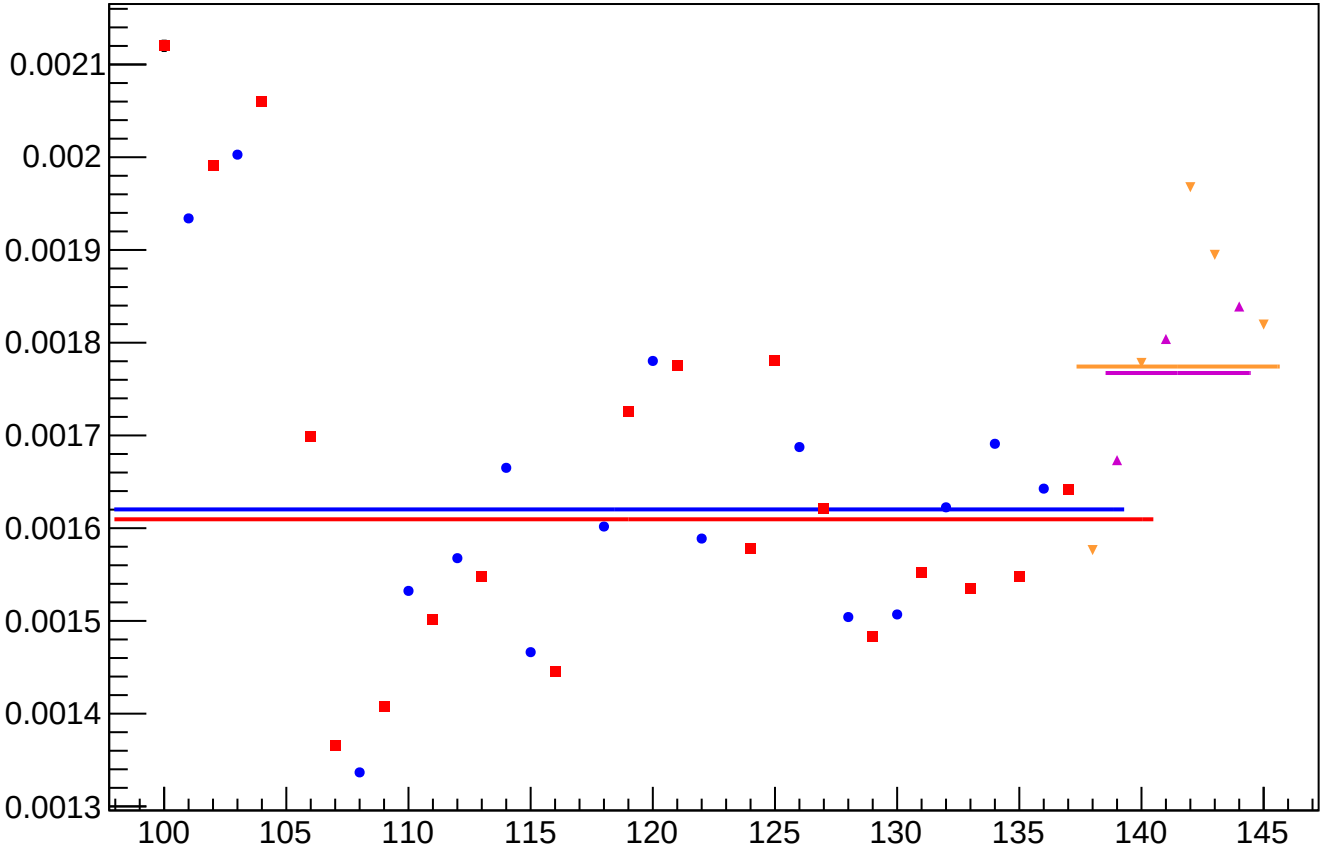
Right: -4.368+/-0.000 $\chi^2$/NDF: 649165512283.3/34

In: -4.177+/-0.000 $\chi^2$/NDF:757680414251.7/18

Out: -4.137+/-0.000 $\chi^2$/NDF:820753965783.5/23

All: -4.156+/-0.000 $\chi^2$/NDF: 1581280576000

# 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:37929.0/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 184968.0/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:8367.7/2

Left: 0.002+/-0.000 $\chi^2$/NDF: 46341.4/7

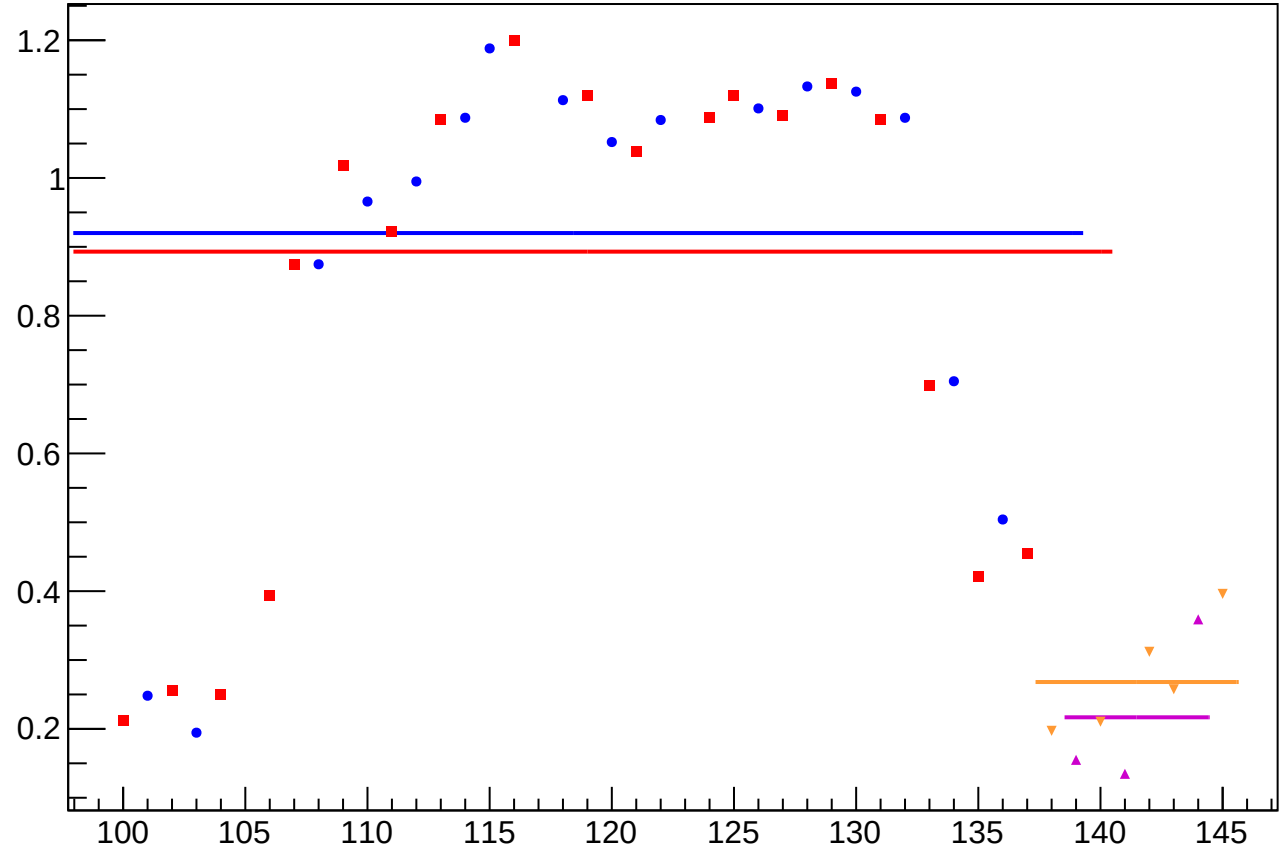
Right: 0.002+/-0.000 $\chi^2$/NDF: 325489.2/34

In: 0.002+/-0.000 $\chi^2$/NDF:175044.2/18

Out: 0.002+/-0.000 $\chi^2$/NDF:265234.0/23

All: 0.002+/-0.000 $\chi^2$/NDF: 440289.4/42

# yield_bpm2i02X_mean vs Slug, Sign Corrected




Right In: 0.920+/-0.000 $\chi^2$/NDF: 14566431727.4/15

Left Out: 0.268+/-0.000 $\chi^2$/NDF:280678939.9/4

Right Out: 0.893+/-0.000 $\chi^2$/NDF: 17642154019.1/18

Left In: 0.217+/-0.000 $\chi^2$/NDF:362911168.9/2

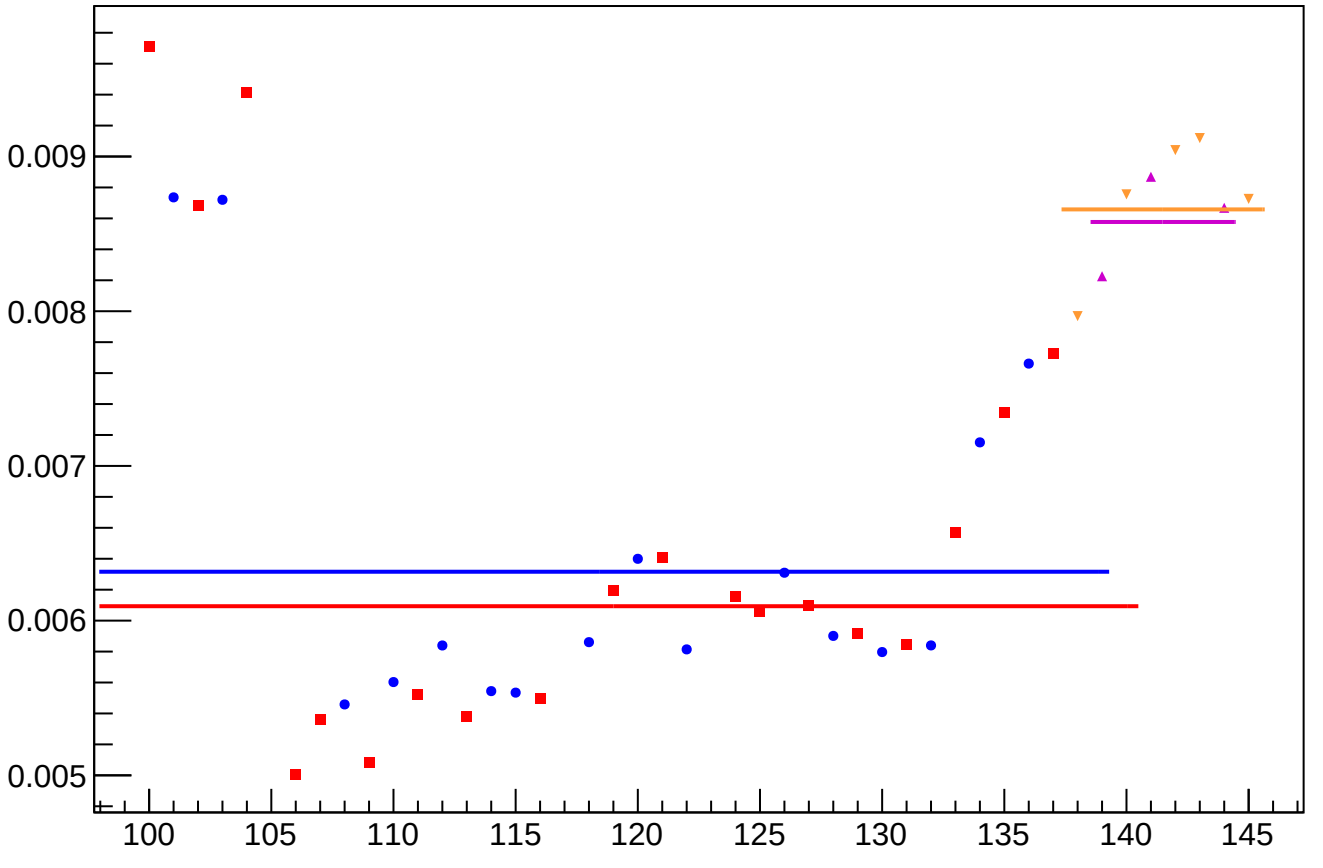
Left: 0.246+/-0.000 $\chi^2$/NDF: 697471082.7/7

Right: 0.906+/-0.000 $\chi^2$/NDF: 32276058175.7/34

In: 0.802+/-0.000 $\chi^2$/NDF:29539882073.7/18

Out: 0.769+/-0.000 $\chi^2$/NDF:33111859605.9/23

All: 0.784+/-0.000 $\chi^2$/NDF: 62776439151.6/4




Right In: 0.006+/-0.000 $\chi^2$/NDF: 335709.2/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:17475.3/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 435933.6/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:5177.1/2

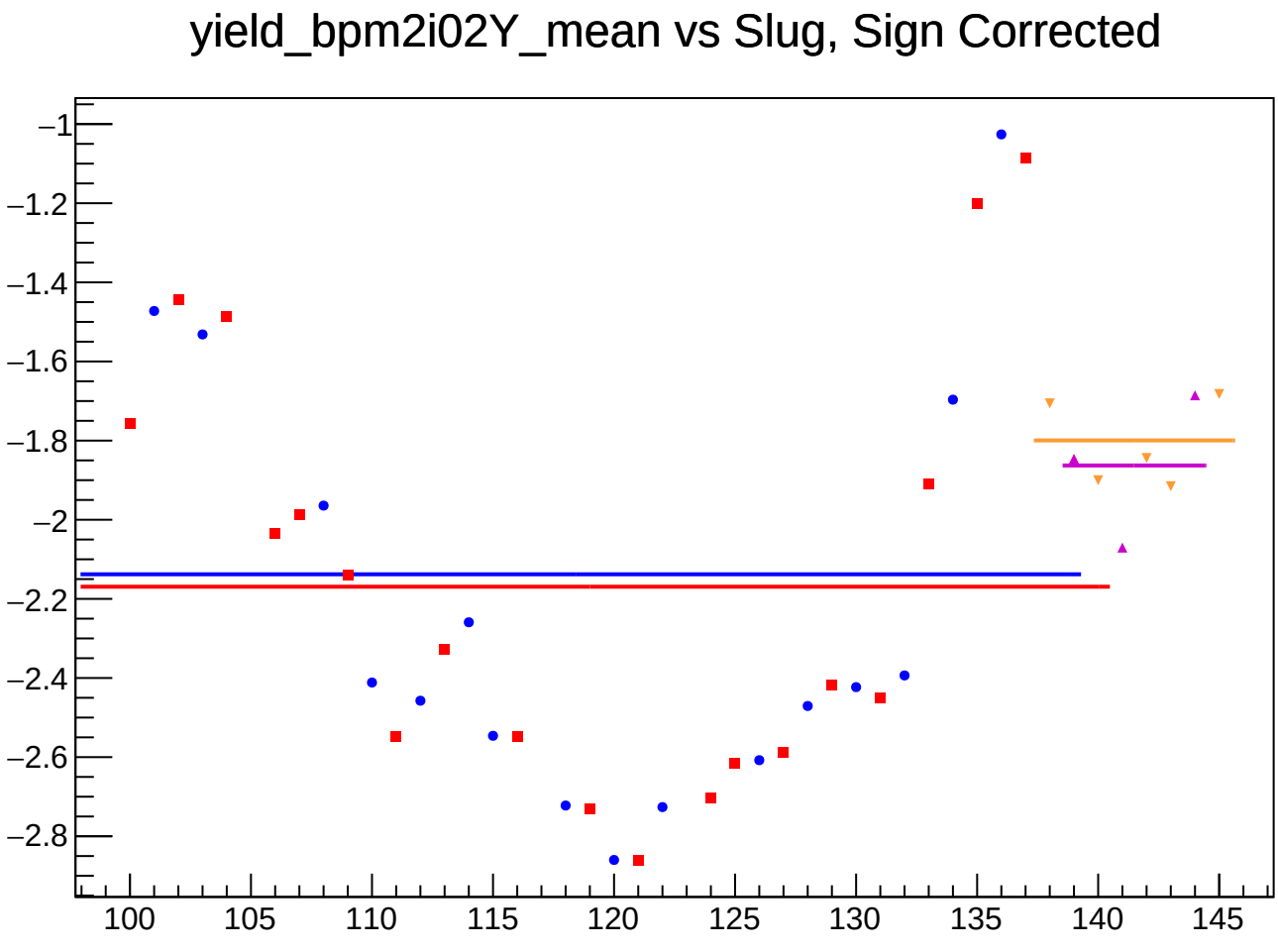
Left: 0.009+/-0.000 $\chi^2$/NDF: 22923.2/7

Right: 0.006+/-0.000 $\chi^2$/NDF: 780835.2/34

In: 0.007+/-0.000 $\chi^2$/NDF:642924.4/18

Out: 0.007+/-0.000 $\chi^2$/NDF:965114.1/23

All: 0.007+/-0.000 $\chi^2$/NDF: 1609971.2/42




Right In: -2.138+/-0.000 $\chi^2$/NDF: 65666622158.4/15

Left Out: -1.800+/-0.000 $\chi^2$/NDF:664397721.4/4

Right Out: -2.169+/-0.000 $\chi^2$/NDF: 57409196879.6/18

Left In: -1.863+/-0.000 $\chi^2$/NDF:1052302645.9/2

Left: -1.826+/-0.000 $\chi^2$/NDF: 1822346845.7/7

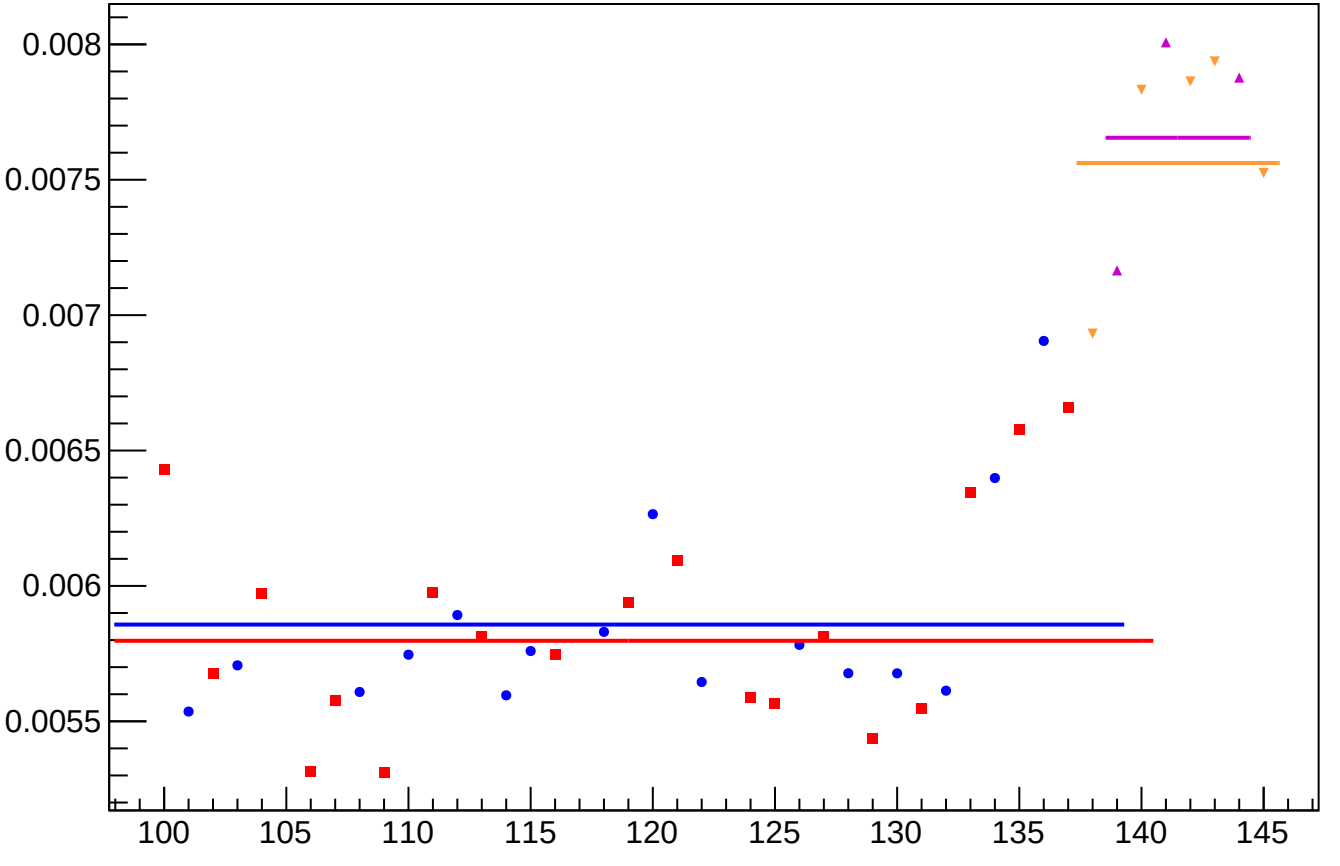
Right: -2.154+/-0.000 $\chi^2$/NDF: 123181980201.2/34

In: -2.090+/-0.000 $\chi^2$/NDF:69504877718.9/18

Out: -2.086+/-0.000 $\chi^2$/NDF:64877629588.1/23

All: -2.088+/-0.000 $\chi^2$/NDF: 134383919993.5

# yield_bpm2i02Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 61946.9/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:19780.9/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 56374.2/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:12744.6/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 32985.3/7

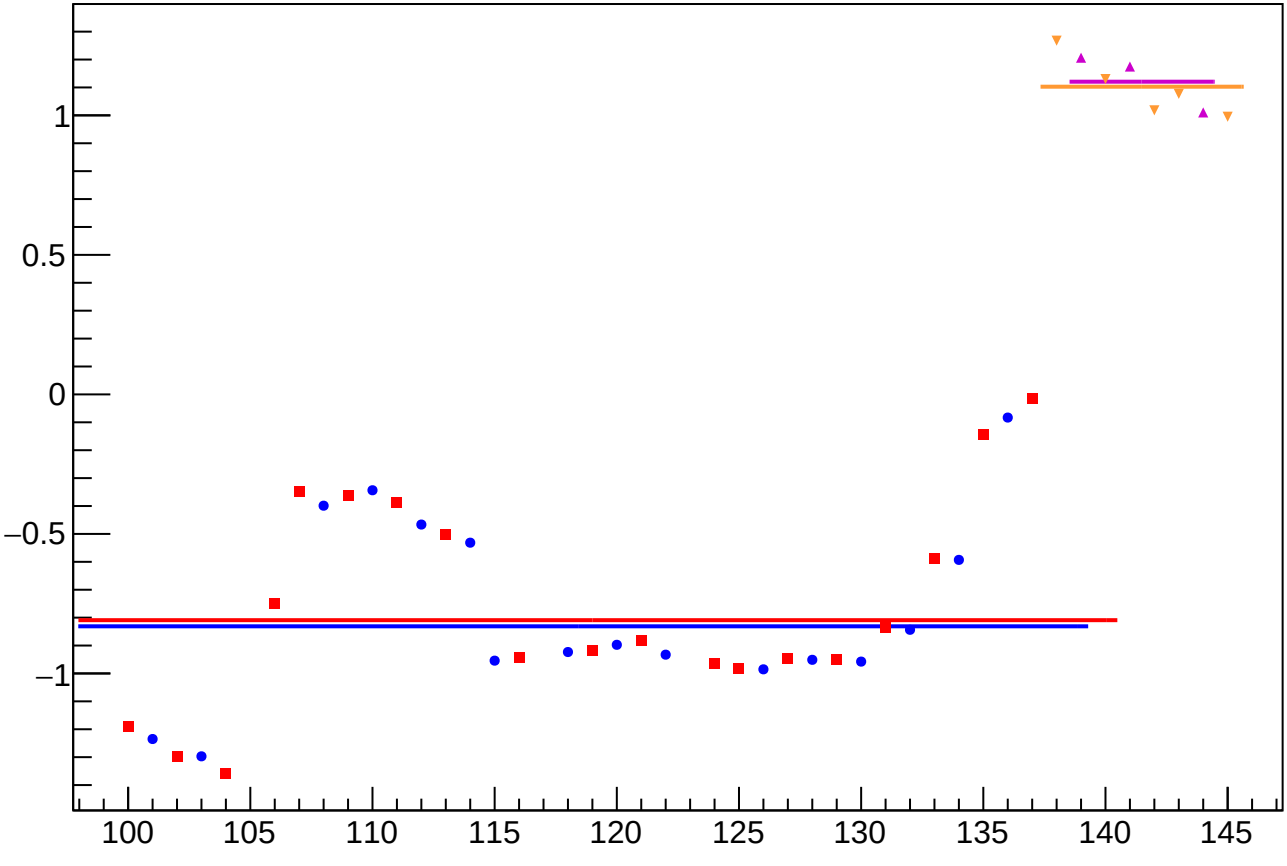
Right: 0.006+/-0.000 $\chi^2$/NDF: 119093.4/34

In: 0.006+/-0.000 $\chi^2$/NDF:312816.0/18

Out: 0.006+/-0.000 $\chi^2$/NDF:386021.7/23

All: 0.006+/-0.000 $\chi^2$/NDF: 698945.9/42

# yield_bpm0i01X_mean vs Slug, Sign Corrected




Right In: -0.831+/-0.000 $\chi^2$/NDF: 7112259663.3/15

Left Out: 1.103+/-0.000 $\chi^2$/NDF:222477327.2/4

Right Out: -0.809+/-0.000 $\chi^2$/NDF: 8146337898.7/18

Left In: 1.121+/-0.000 $\chi^2$/NDF:133790720.3/2

Left: 1.110+/-0.000 $\chi^2$/NDF: 359403500.6/7

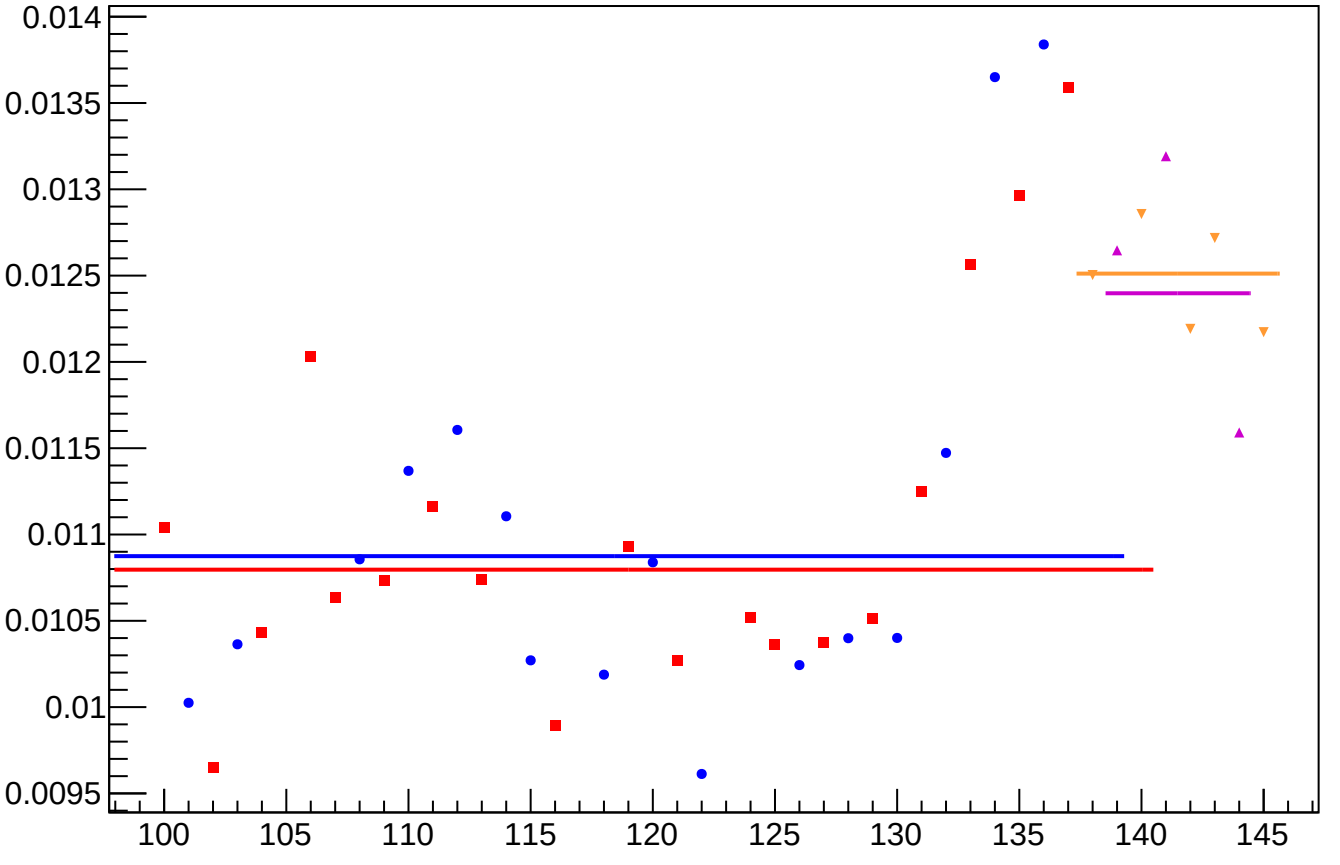
Right: -0.820+/-0.000 $\chi^2$/NDF: 15273298764.6/34

In: -0.399+/-0.000 $\chi^2$/NDF:57389269881.5/18

Out: -0.289+/-0.000 $\chi^2$/NDF:69989851214.0/23

All: -0.341+/-0.000 $\chi^2$/NDF: 127866352863.0

# yield_bpm0i01X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 157612.7/15

Left Out: 0.013+/-0.000 $\chi^2$/NDF:3448.9/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 99122.1/18

Left In: 0.012+/-0.000 $\chi^2$/NDF:15607.8/2

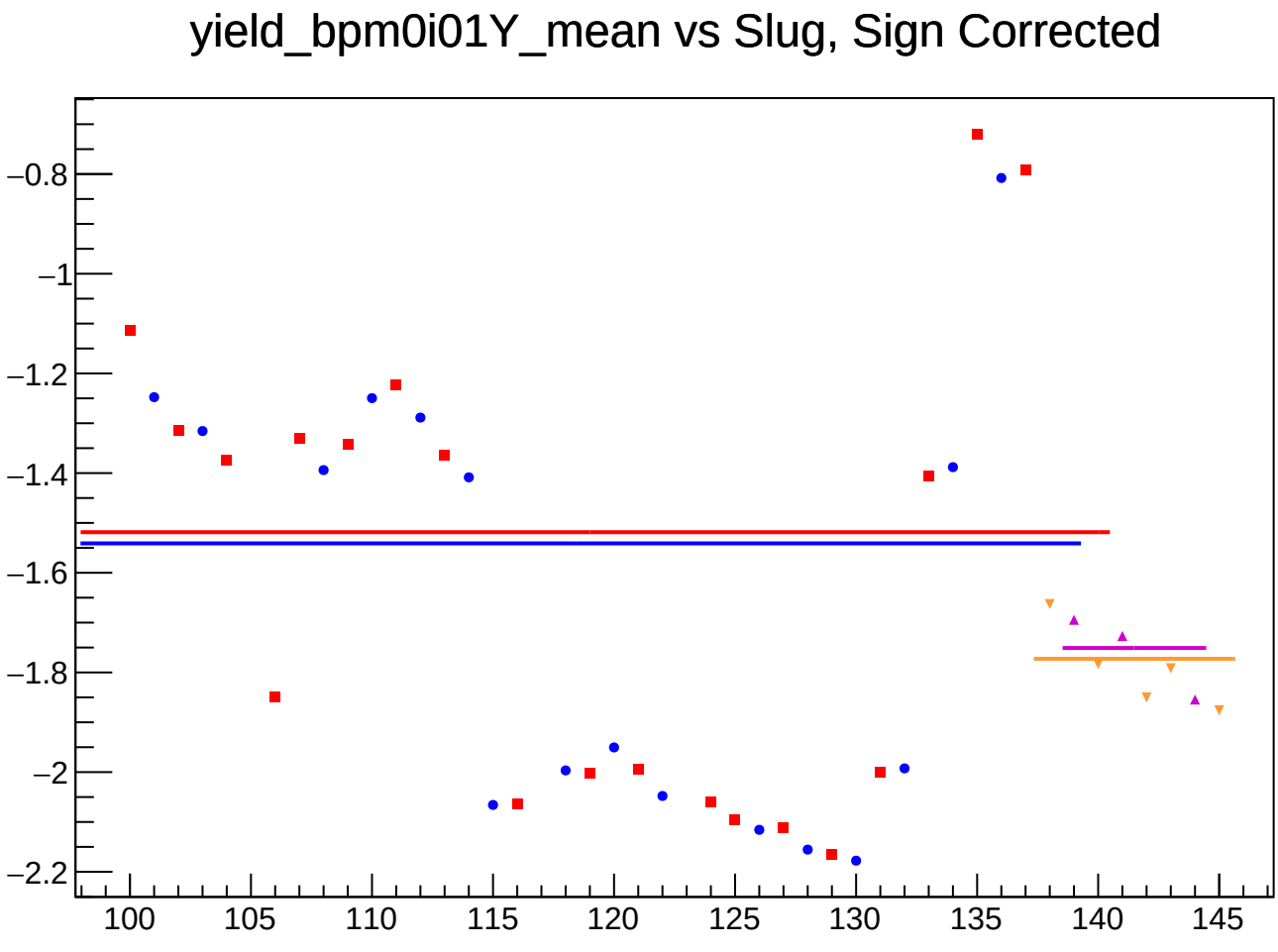
Left: 0.012+/-0.000 $\chi^2$/NDF: 19310.4/7

Right: 0.011+/-0.000 $\chi^2$/NDF: 257107.2/34

In: 0.011+/-0.000 $\chi^2$/NDF:234293.5/18

Out: 0.011+/-0.000 $\chi^2$/NDF:201782.1/23

All: 0.011+/-0.000 $\chi^2$/NDF: 436285.9/42




Right In: -1.541+/-0.000 $\chi^2$/NDF: 162409397922.2/15

Left Out: -1.773+/-0.000 $\chi^2$/NDF:2236026622.1/4

Right Out: -1.519+/-0.000 $\chi^2$/NDF: 145077318641.2/18

Left In: -1.751+/-0.000 $\chi^2$/NDF:1200808827.8/2

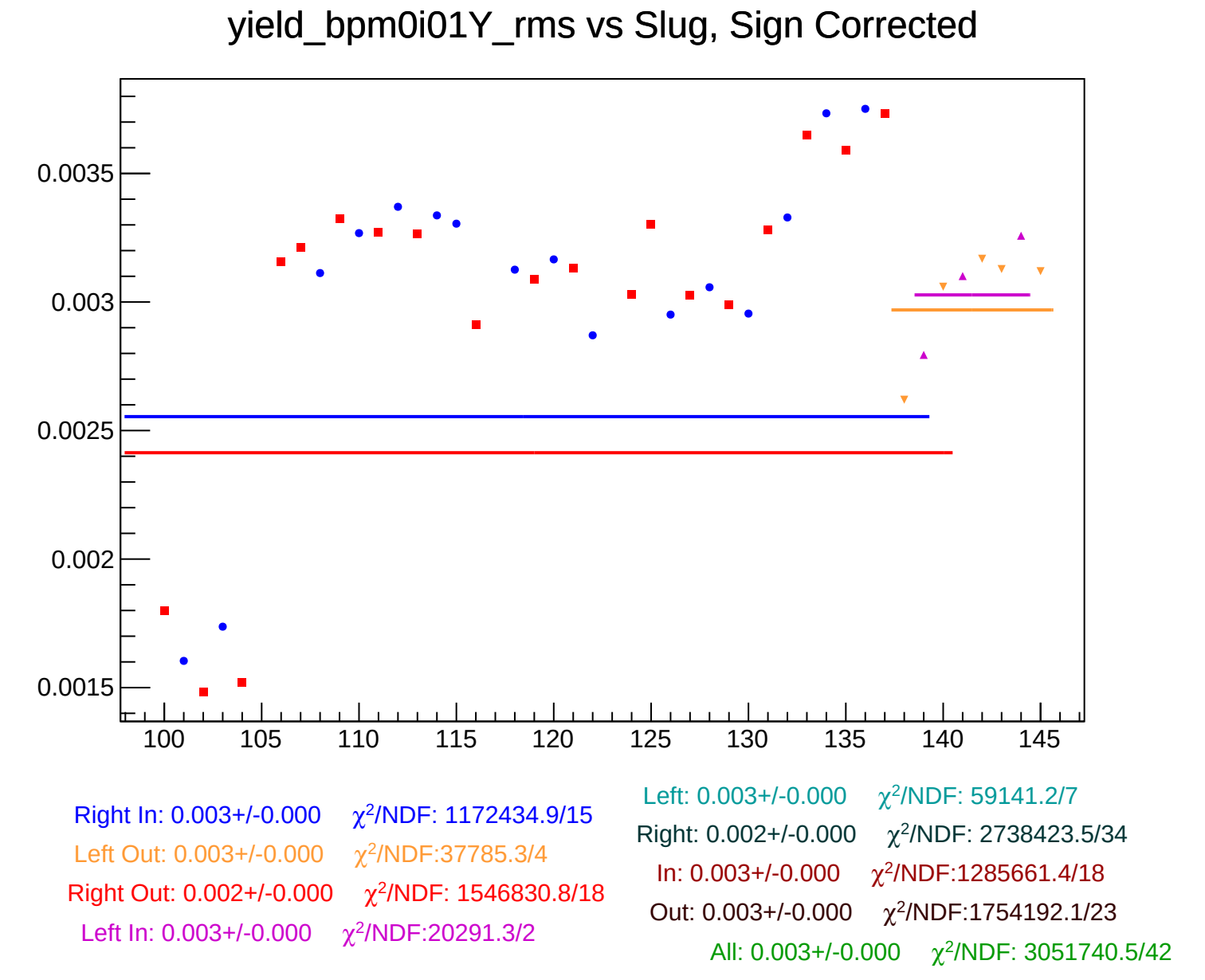
Left: -1.764+/-0.000 $\chi^2$/NDF: 3510107812.7/7

Right: -1.529+/-0.000 $\chi^2$/NDF: 307732116783.0/34

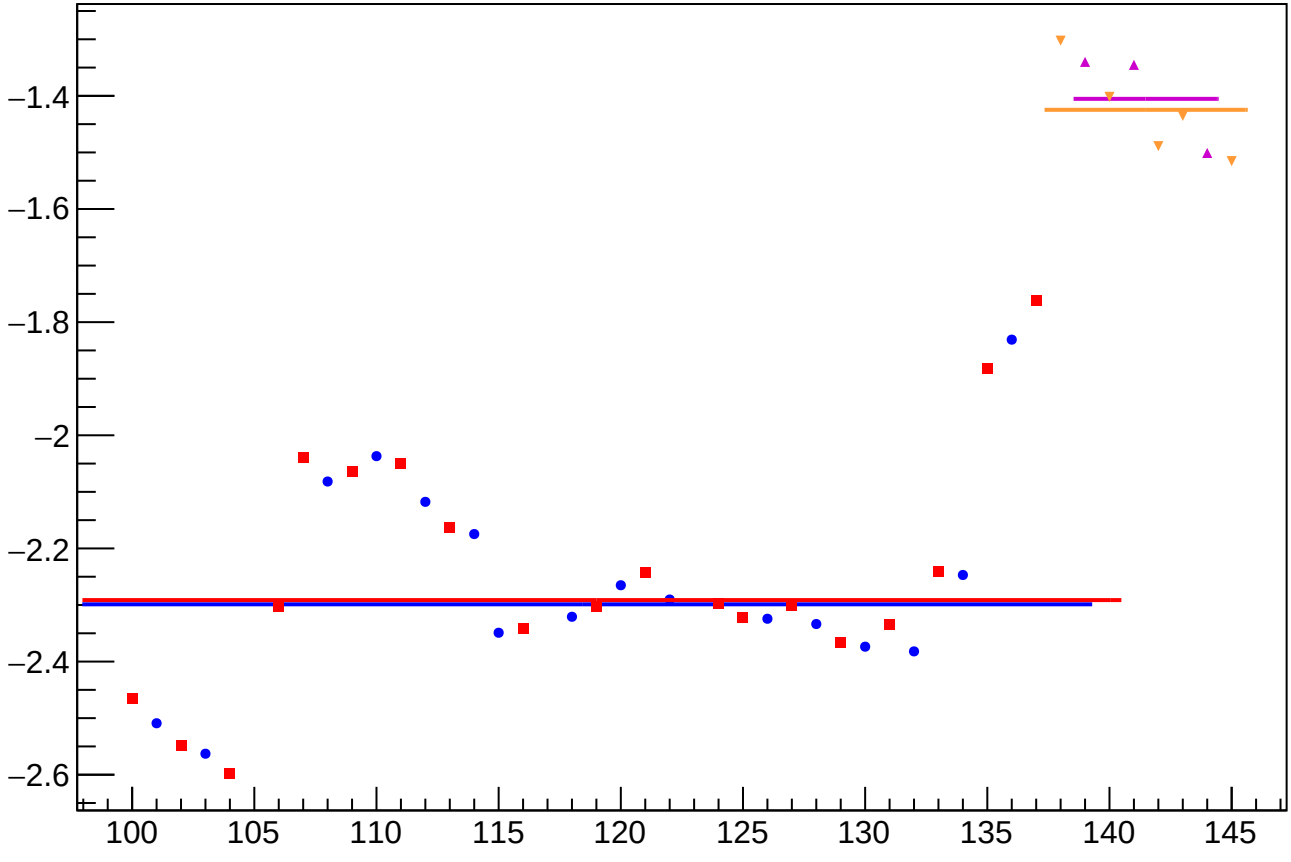
In: -1.588+/-0.000 $\chi^2$/NDF:172743748832.8/18

Out: -1.587+/-0.000 $\chi^2$/NDF:165043745694.5/23

All: -1.588+/-0.000 $\chi^2$/NDF: 337787828590.0


yield_bpm0i01Y_rms vs Slug, Sign Corrected
0.0035
0.003
0.0025
0.002
0.0015
100
105
110
115
120
125
130
135
140
145
Right In: 0.003+/-0.000 χ²/NDF: 1172434.9/15
Left Out: 0.003+/-0.000 χ²/NDF:37785.3/4
Right Out: 0.002+/-0.000 χ²/NDF: 1546830.8/18
Left In: 0.003+/-0.000 χ²/NDF:20291.3/2
Left: 0.003+/-0.000 χ²/NDF: 59141.2/7
Right: 0.002+/-0.000 χ²/NDF: 2738423.5/34
In: 0.003+/-0.000 χ²/NDF:1285661.4/18
Out: 0.003+/-0.000 χ²/NDF:1754192.1/23
All: 0.003+/-0.000 χ²/NDF: 3051740.5/42

# yield_bpm0i01aX_mean vs Slug, Sign Corrected




Right In: -2.299+/-0.000 $\chi^2$/NDF: 6129071089.8/15

Left Out: -1.425+/-0.000 $\chi^2$/NDF:268260281.3/4

Right Out: -2.291+/-0.000 $\chi^2$/NDF: 6831007568.9/18

Left In: -1.405+/-0.000 $\chi^2$/NDF:210294205.8/2

Left: -1.416+/-0.000 $\chi^2$/NDF: 486134929.9/7

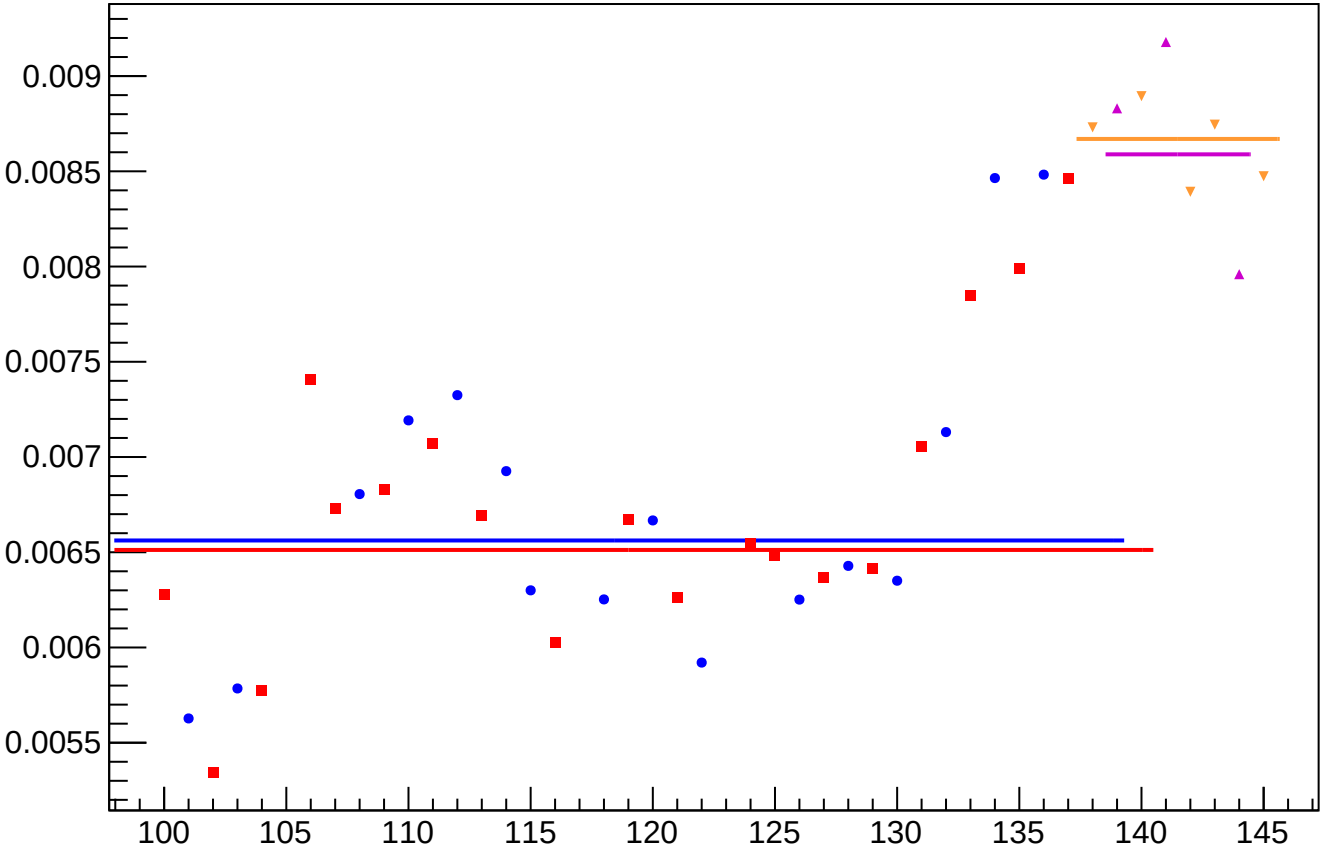
Right: -2.295+/-0.000 $\chi^2$/NDF: 12964639512.9/34

In: -2.139+/-0.000 $\chi^2$/NDF:29279769565.5/18

Out: -2.099+/-0.000 $\chi^2$/NDF:35006125539.1/23

All: -2.118+/-0.000 $\chi^2$/NDF: 64450360896.3/

# yield_bpm0i01aX_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 221890.3/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:3006.1/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 184961.7/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:19465.8/2

Left: 0.009+/-0.000 $\chi^2$/NDF: 22736.1/7

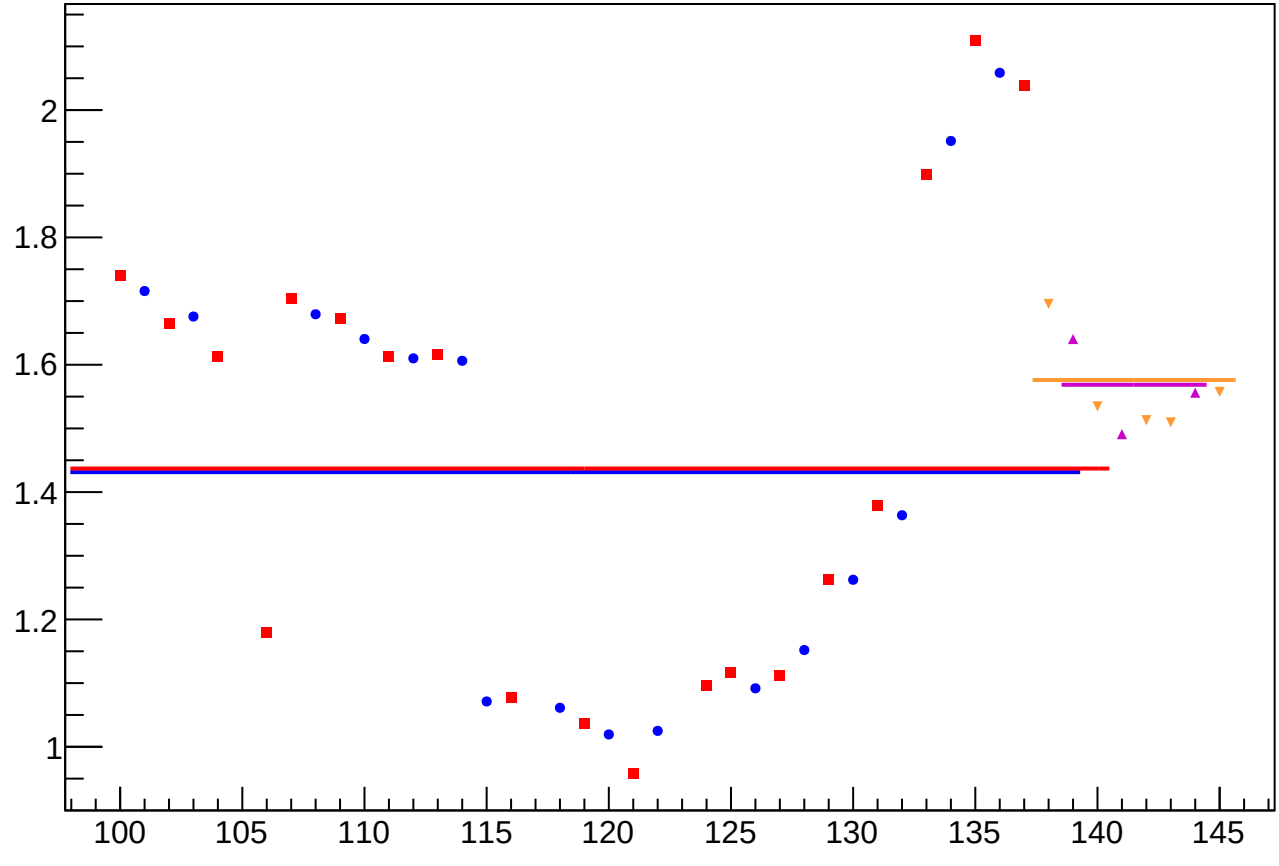
Right: 0.007+/-0.000 $\chi^2$/NDF: 407258.0/34

In: 0.007+/-0.000 $\chi^2$/NDF:477543.2/18

Out: 0.007+/-0.000 $\chi^2$/NDF:533977.9/23

All: 0.007+/-0.000 $\chi^2$/NDF: 1012433.5/42

# yield_bpm0i01aY_mean vs Slug, Sign Corrected




Right In: 1.431+/-0.000 $\chi^2$/NDF: 189180734956.1/15

Left Out: 1.576+/-0.000 $\chi^2$/NDF:837076692.7/4

Right Out: 1.437+/-0.000 $\chi^2$/NDF: 182019221175.5/18

Left In: 1.569+/-0.000 $\chi^2$/NDF:422493380.8/2

Left: 1.573+/-0.000 $\chi^2$/NDF: 1262906805.4/7

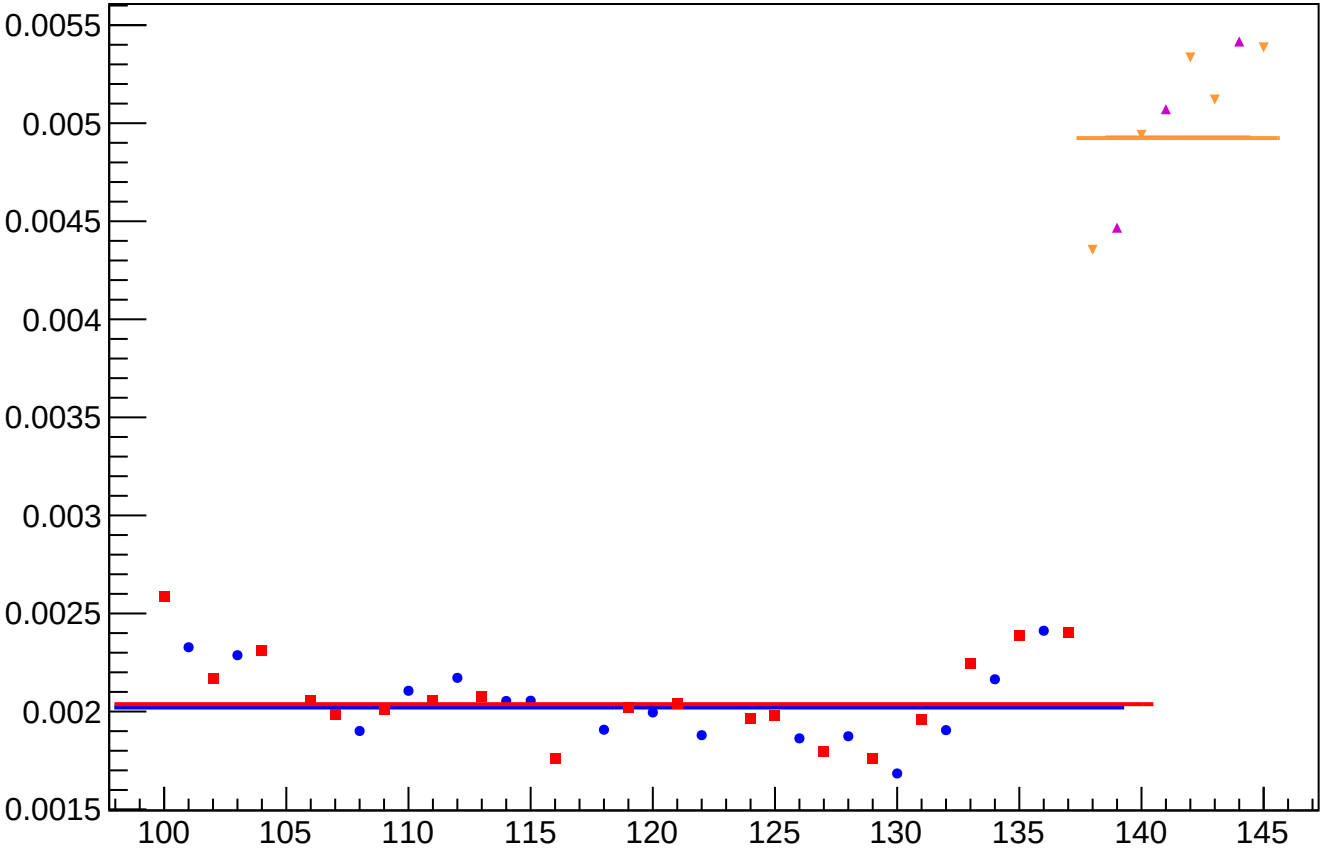
Right: 1.434+/-0.000 $\chi^2$/NDF: 371226177704.8/34

In: 1.440+/-0.000 $\chi^2$/NDF:191448693523.0/18

Out: 1.448+/-0.000 $\chi^2$/NDF:185387023780.6/23

All: 1.444+/-0.000 $\chi^2$/NDF: 376899933052.7

# yield_bpm0i01aY_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 154923.3/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:43045.9/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 113640.4/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:32801.8/2

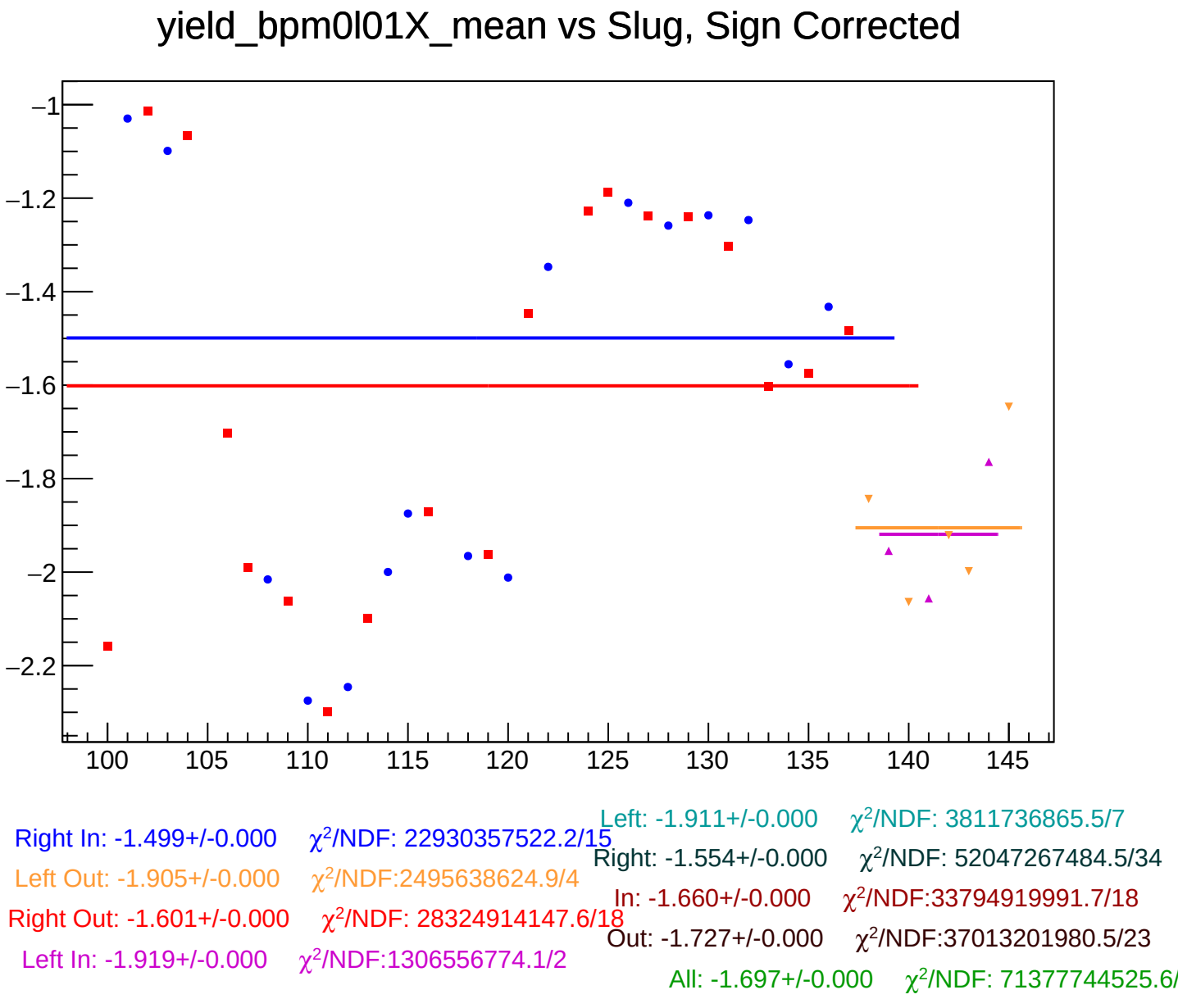
Left: 0.005+/-0.000 $\chi^2$/NDF: 75848.1/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 269026.9/34

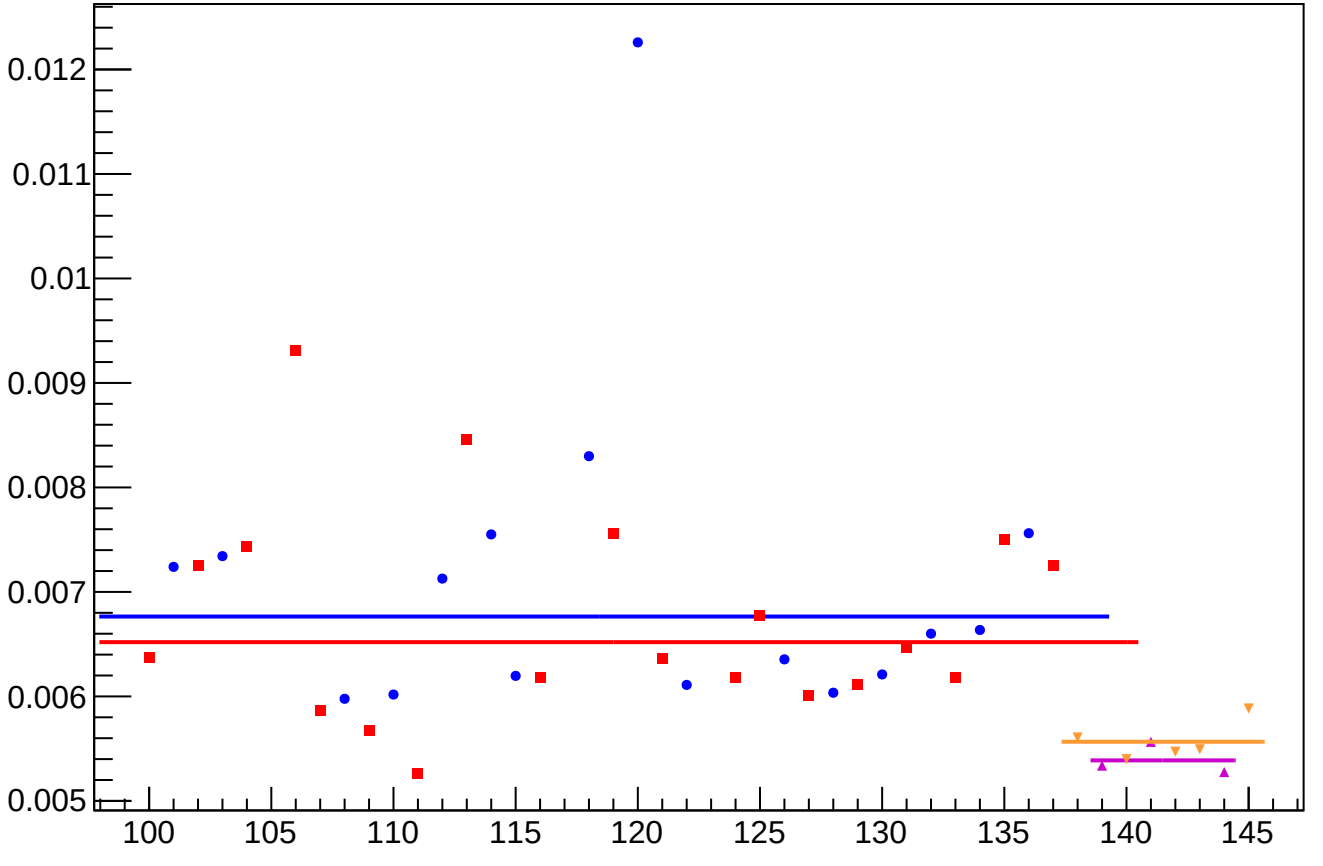
In: 0.002+/-0.000 $\chi^2$/NDF:1841714.5/18

Out: 0.002+/-0.000 $\chi^2$/NDF:2339174.3/23

All: 0.002+/-0.000 $\chi^2$/NDF: 4190351.6/42


yield_bpm0l01X_mean vs Slug, Sign Corrected
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
100
105
110
115
120
125
130
135
140
145
Right In: -1.499+/-0.000 χ²/NDF: 22930357522.2/15
Left Out: -1.905+/-0.000 χ²/NDF:2495638624.9/4
Right Out: -1.601+/-0.000 χ²/NDF: 28324914147.6/18
Left In: -1.919+/-0.000 χ²/NDF:1306556774.1/2
Left: -1.911+/-0.000 χ²/NDF: 3811736865.5/7
Right: -1.554+/-0.000 χ²/NDF: 52047267484.5/34
In: -1.660+/-0.000 χ²/NDF:33794919991.7/18
Out: -1.727+/-0.000 χ²/NDF:37013201980.5/23
All: -1.697+/-0.000 χ²/NDF: 71377744525.6/

# yield_bpm0l01X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 238566.1/15

Left Out: 0.006+/-0.000 $\chi^2$/NDF:6600.7/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 245428.1/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:2666.1/2

Left: 0.005+/-0.000 $\chi^2$/NDF: 12424.8/7

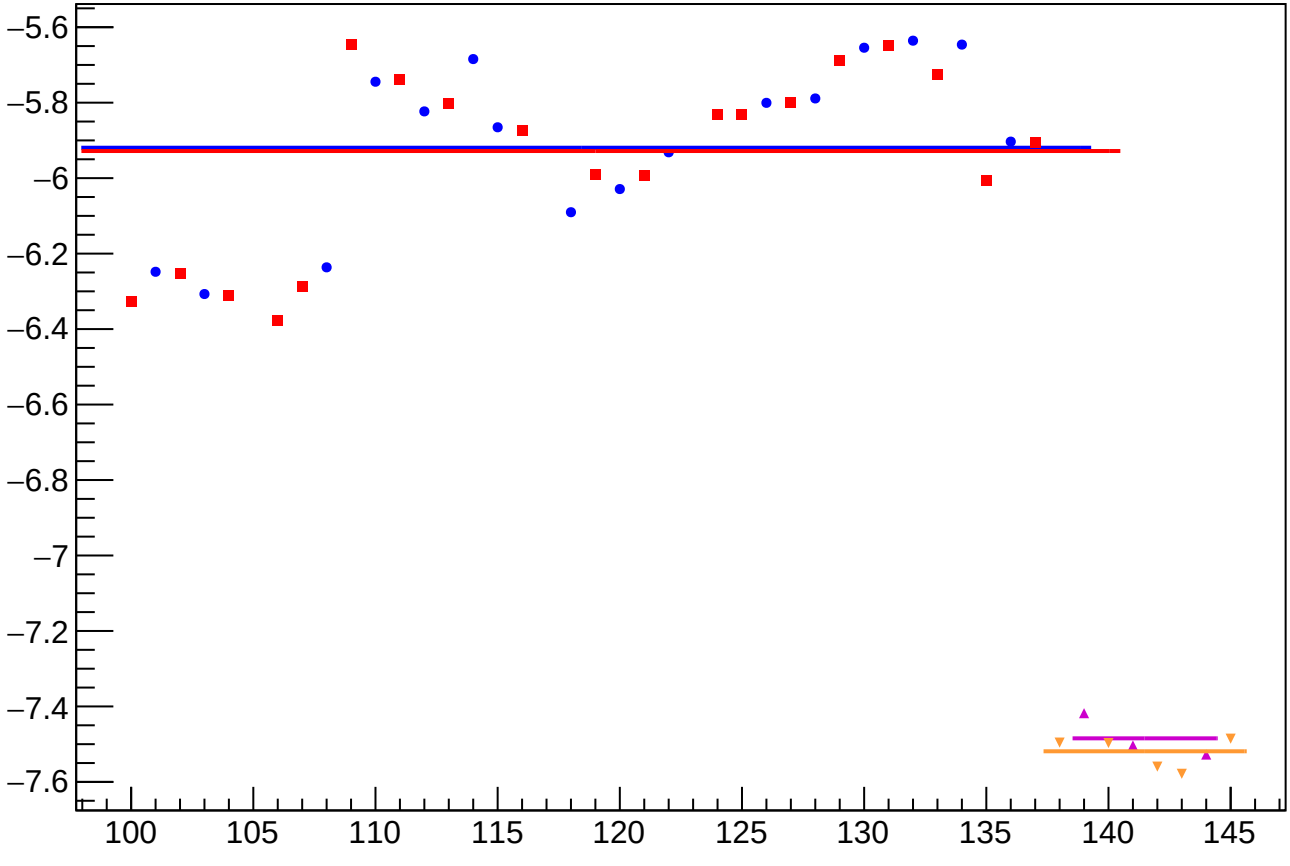
Right: 0.007+/-0.000 $\chi^2$/NDF: 493094.9/34

In: 0.006+/-0.000 $\chi^2$/NDF:446733.4/18

Out: 0.006+/-0.000 $\chi^2$/NDF:374019.7/23

All: 0.006+/-0.000 $\chi^2$/NDF: 823961.4/42

# yield_bpm0l01Y_mean vs Slug, Sign Corrected




Right In: -5.919+/-0.000 $\chi^2$/NDF: 11742457053.3/15

Left Out: -7.519+/-0.000 $\chi^2$/NDF:41375358.3/4

Right Out: -5.928+/-0.000 $\chi^2$/NDF: 12641528579.2/18

Left In: -7.485+/-0.000 $\chi^2$/NDF:45614903.7/2

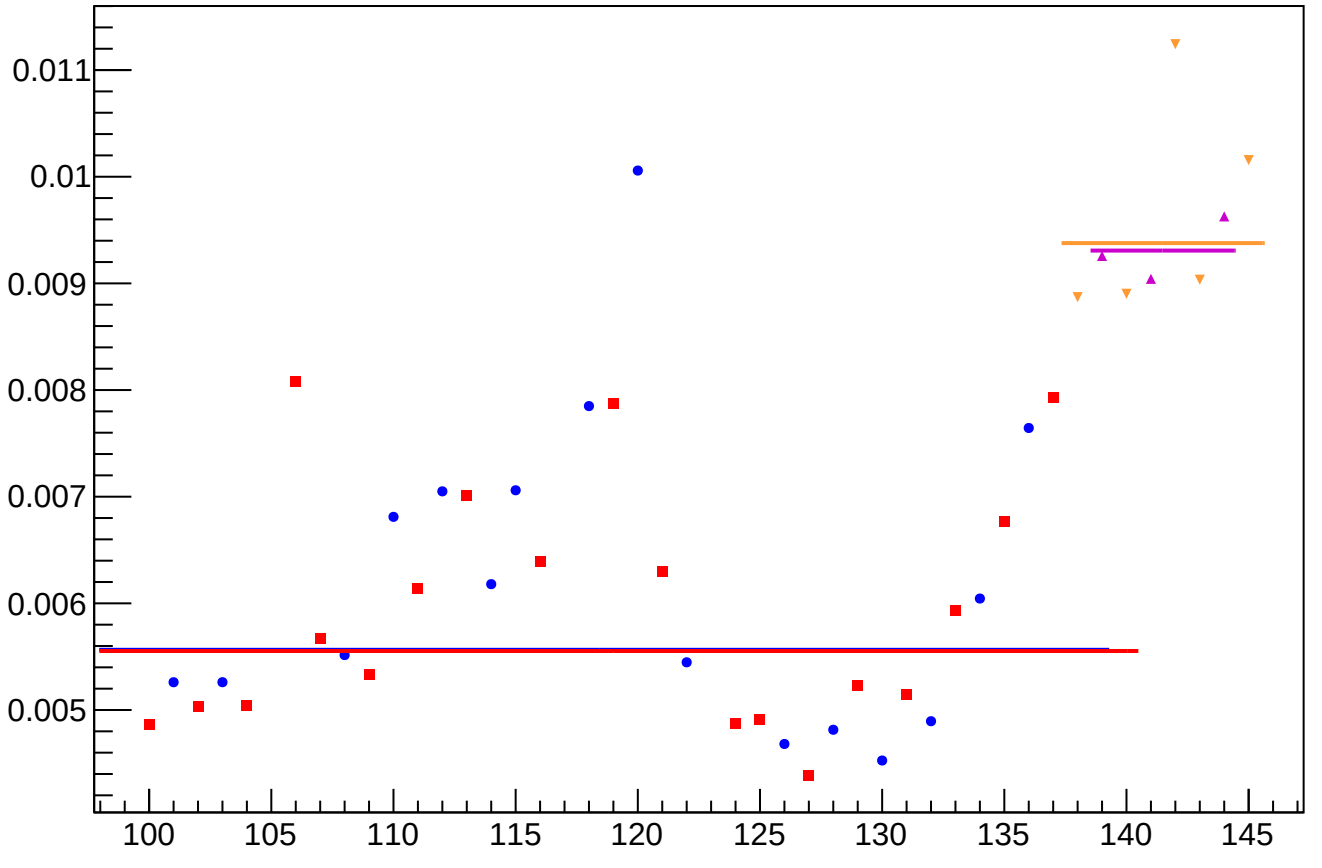
Left: -7.504+/-0.000 $\chi^2$/NDF: 101381666.8/7

Right: -5.924+/-0.000 $\chi^2$/NDF: 24391751979.3/34

In: -6.071+/-0.000 $\chi^2$/NDF:58833565878.4/18

Out: -6.119+/-0.000 $\chi^2$/NDF:76678994461.4/23

All: -6.096+/-0.000 $\chi^2$/NDF: 135776314745.6




Right In: 0.006+/-0.000 $\chi^2$/NDF: 495546.3/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:32540.3/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 364541.1/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:2541.9/2

Left: 0.009+/-0.000 $\chi^2$/NDF: 35202.7/7

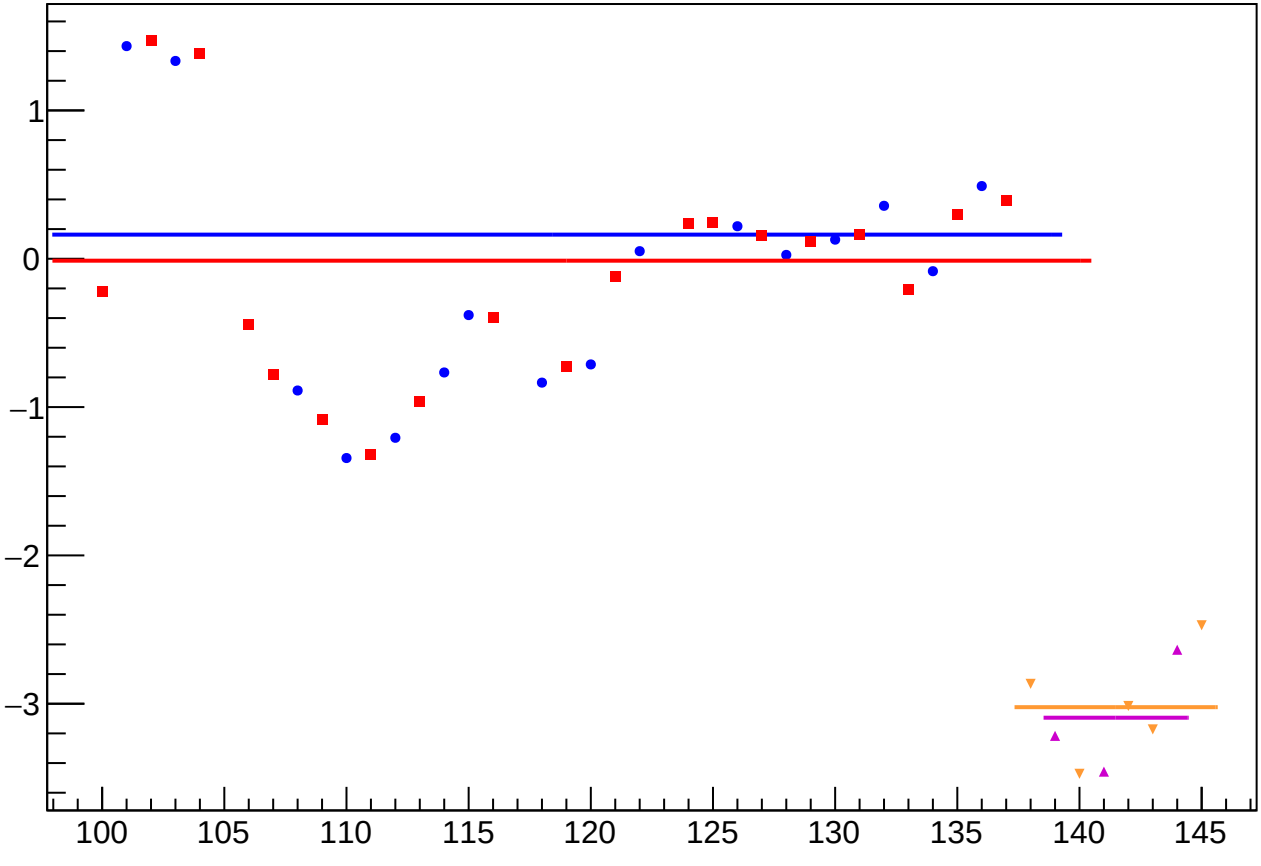
Right: 0.006+/-0.000 $\chi^2$/NDF: 860112.8/34

In: 0.006+/-0.000 $\chi^2$/NDF:1036259.0/18

Out: 0.006+/-0.000 $\chi^2$/NDF:1136929.0/23

All: 0.006+/-0.000 $\chi^2$/NDF: 2174850.9/42

# yield_bpm0l02X_mean vs Slug, Sign Corrected




Right In: 0.163+/-0.000 $\chi^2$/NDF: 17940034444.3/15

Left Out: -3.023+/-0.000 $\chi^2$/NDF:1256658939.3/4

Right Out: -0.013+/-0.000 $\chi^2$/NDF: 22484002798.8/18

Left In: -3.094+/-0.000 $\chi^2$/NDF:955833335.8/2

Left: -3.053+/-0.000 $\chi^2$/NDF: 2235246662.4/7

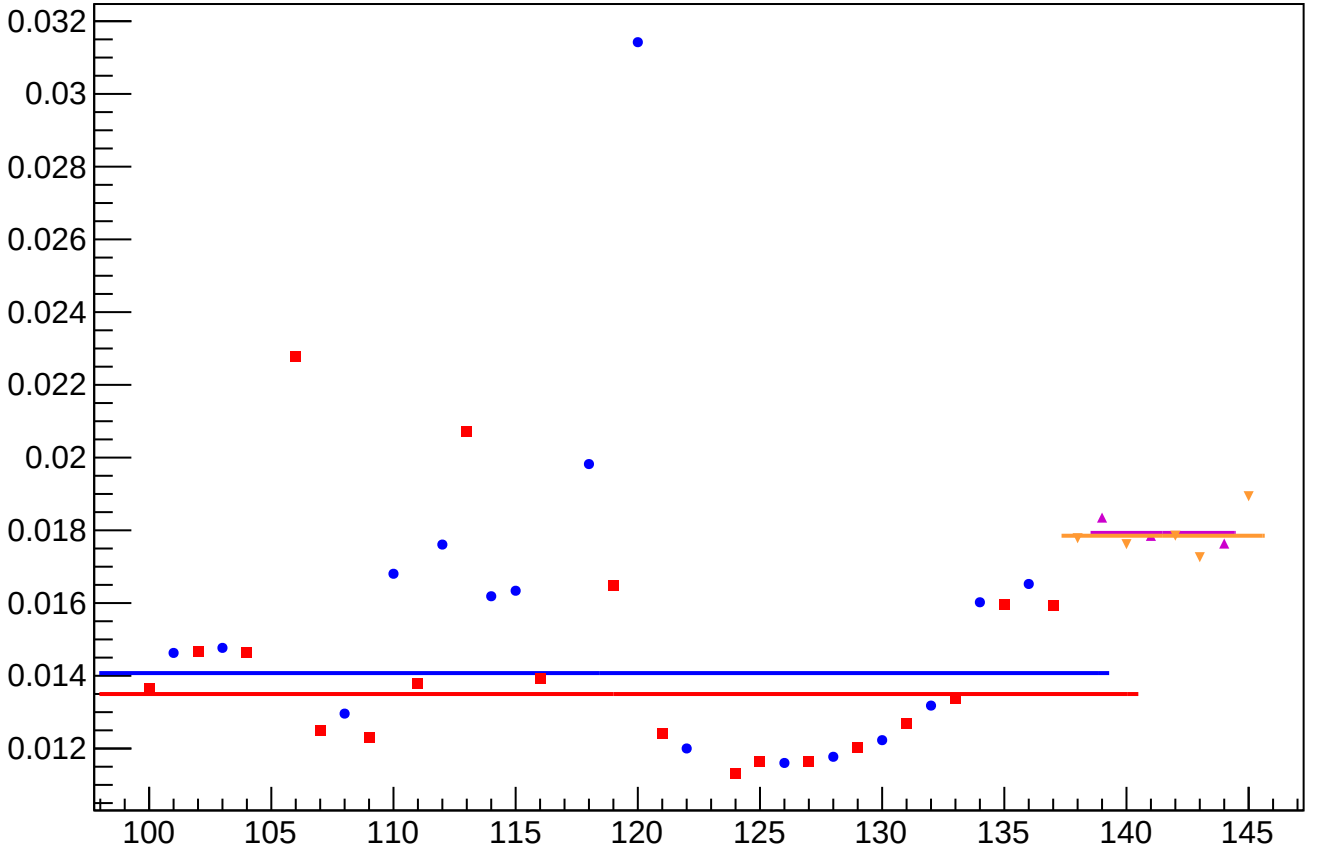
Right: 0.068+/-0.000 $\chi^2$/NDF: 40953433371.5/34

In: -0.475+/-0.000 $\chi^2$/NDF:85047020354.0/18

Out: -0.688+/-0.000 $\chi^2$/NDF:99287412311.7/23

All: -0.592+/-0.000 $\chi^2$/NDF: 185314827977.9

# yield_bpm0l02X_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 465421.6/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:7004.4/4

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 314810.3/18

Left In: 0.018+/-0.000 $\chi^2$/NDF:1353.7/2

Left: 0.018+/-0.000 $\chi^2$/NDF: 8412.2/7

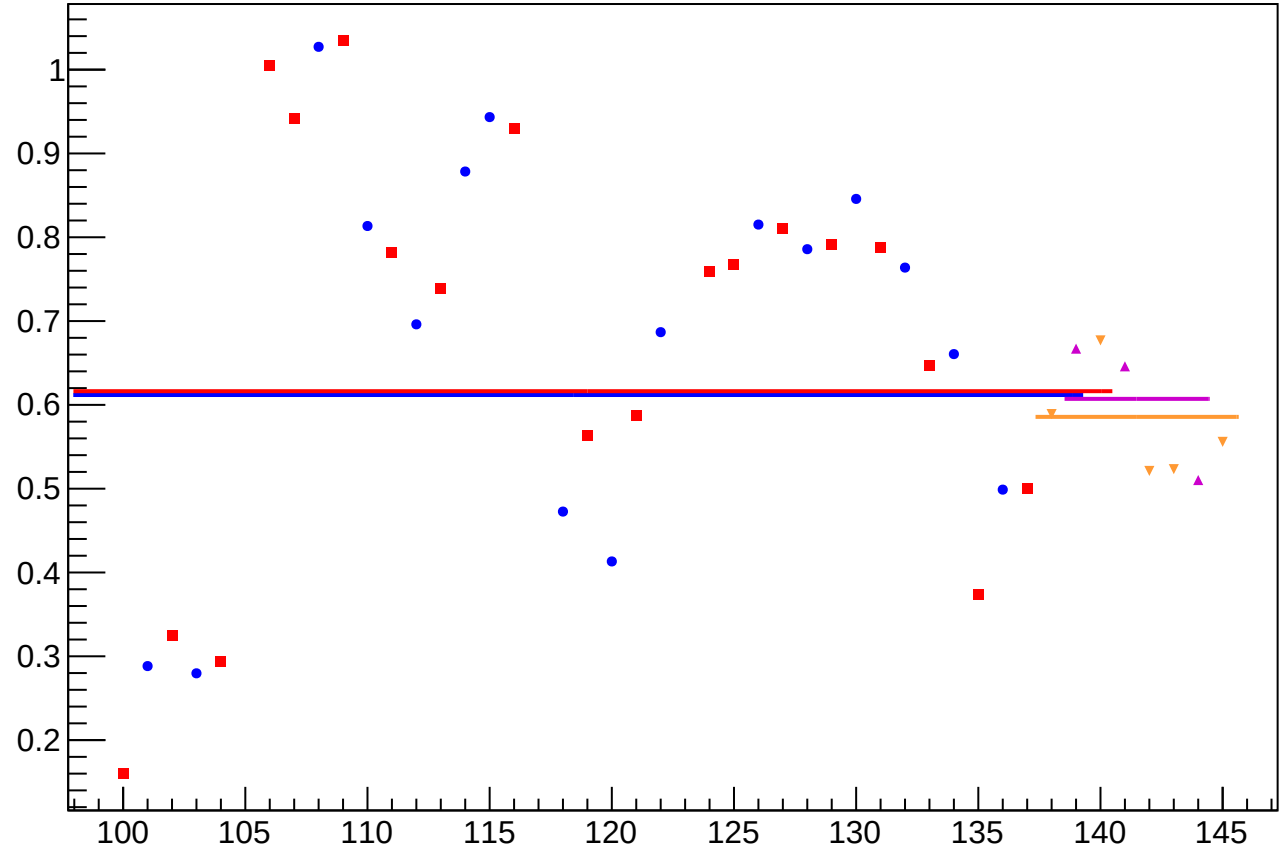
Right: 0.014+/-0.000 $\chi^2$/NDF: 791602.0/34

In: 0.015+/-0.000 $\chi^2$/NDF:652096.8/18

Out: 0.014+/-0.000 $\chi^2$/NDF:637765.7/23

All: 0.015+/-0.000 $\chi^2$/NDF: 1295321.2/42

# yield_bpm0l02Y_mean vs Slug, Sign Corrected




Right In: 0.612+/-0.000 $\chi^2$/NDF: 5639014502.0/15

Left Out: 0.586+/-0.000 $\chi^2$/NDF:162278509.6/4

Right Out: 0.616+/-0.000 $\chi^2$/NDF: 6419512040.7/18

Left In: 0.607+/-0.000 $\chi^2$/NDF:151871555.8/2

Left: 0.595+/-0.000 $\chi^2$/NDF: 322776359.4/7

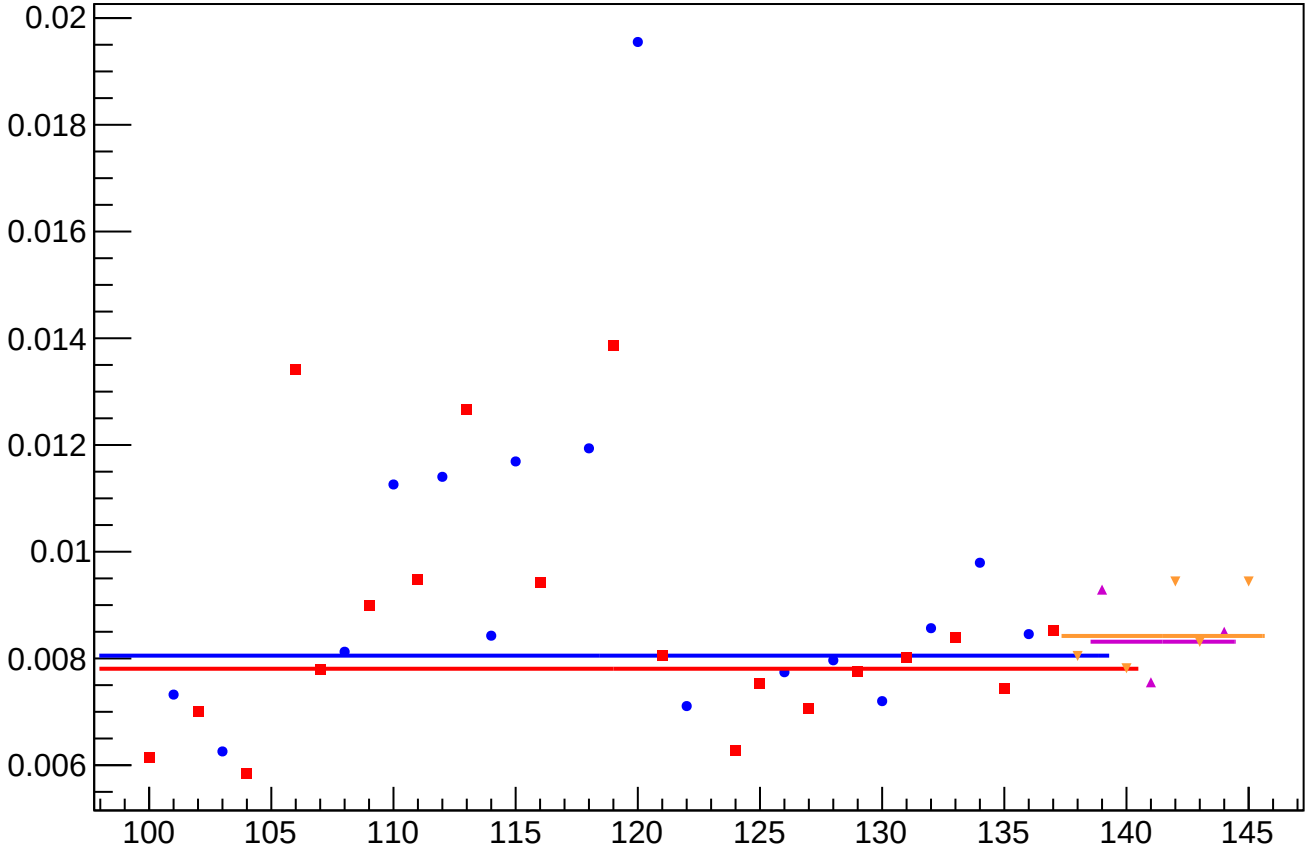
Right: 0.614+/-0.000 $\chi^2$/NDF: 12059563453.6/34

In: 0.611+/-0.000 $\chi^2$/NDF:5791402102.1/18

Out: 0.607+/-0.000 $\chi^2$/NDF:6610615180.0/23

All: 0.609+/-0.000 $\chi^2$/NDF: 12402713877.1/4

# yield_bpm0l02Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 598309.5/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:36217.5/4

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 587157.2/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:32731.9/2

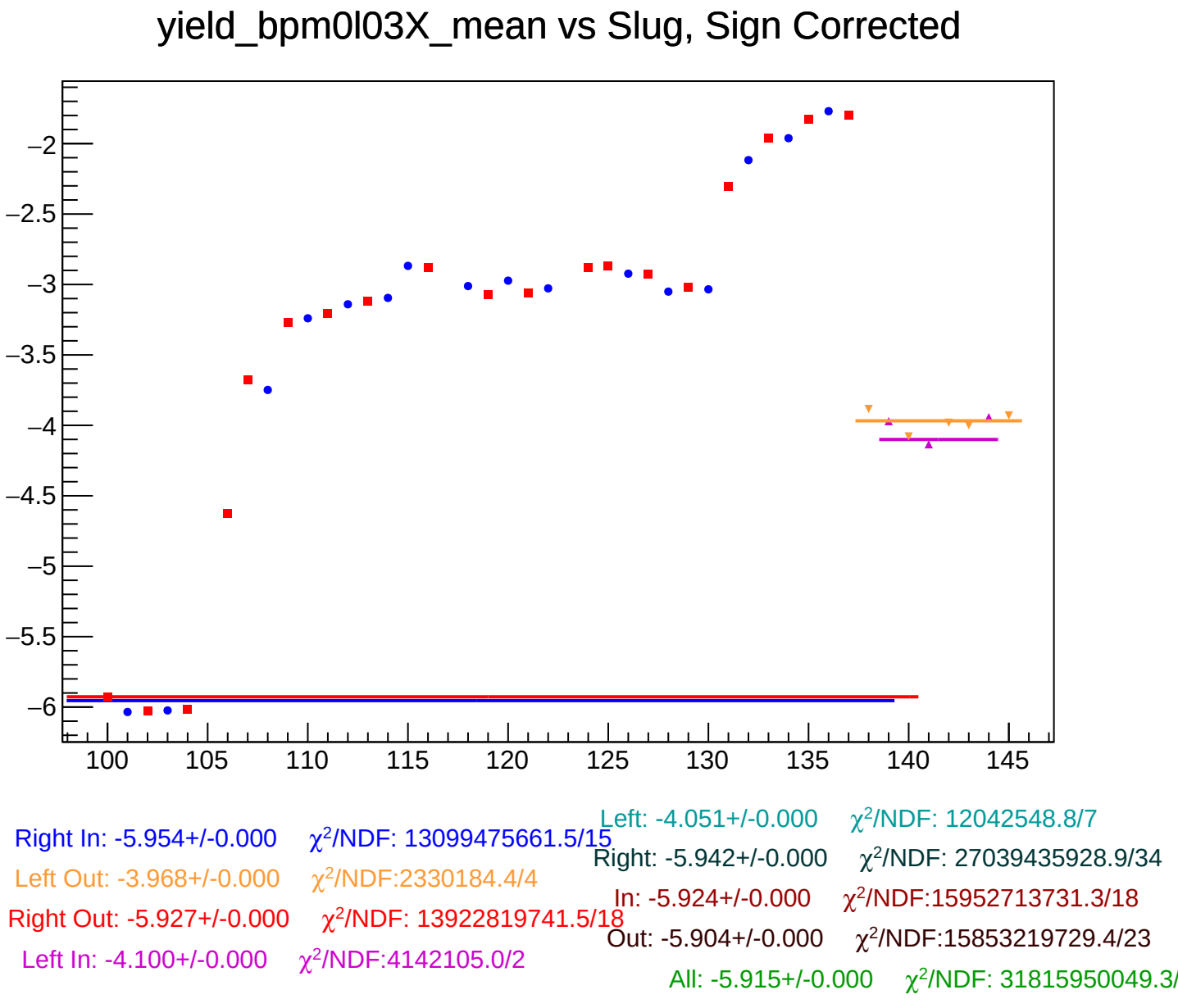
Left: 0.008+/-0.000 $\chi^2$/NDF: 69385.6/7

Right: 0.008+/-0.000 $\chi^2$/NDF: 1191469.8/34

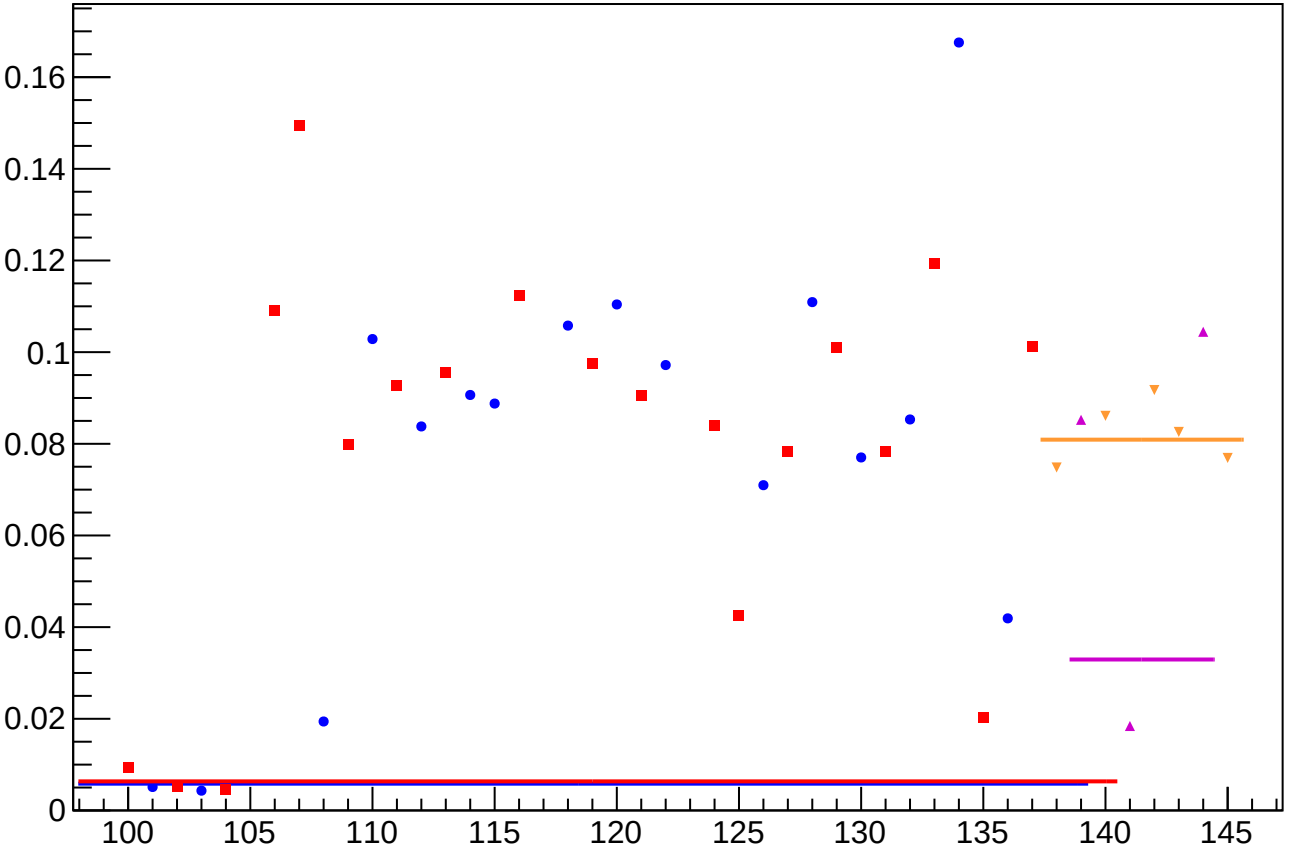
In: 0.008+/-0.000 $\chi^2$/NDF:634367.1/18

Out: 0.008+/-0.000 $\chi^2$/NDF:646566.0/23

All: 0.008+/-0.000 $\chi^2$/NDF: 1283383.1/42


yield_bpm0l03X_mean vs Slug, Sign Corrected
−2
−2.5
−3
−3.5
−4
−4.5
−5
−5.5
−6
100
105
110
115
120
125
130
135
140
145
Right In: -5.954+/-0.000 χ²/NDF: 13099475661.5/15
Left Out: -3.968+/-0.000 χ²/NDF:2330184.4/4
Right Out: -5.927+/-0.000 χ²/NDF: 13922819741.5/18
Left In: -4.100+/-0.000 χ²/NDF:4142105.0/2
Left: -4.051+/-0.000 χ²/NDF: 12042548.8/7
Right: -5.942+/-0.000 χ²/NDF: 27039435928.9/34
In: -5.924+/-0.000 χ²/NDF:15952713731.3/18
Out: -5.904+/-0.000 χ²/NDF:15853219729.4/23
All: -5.915+/-0.000 χ²/NDF: 31815950049.3/

# yield_bpm0l03X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 8700553.3/15

Left Out: 0.081+/-0.000 $\chi^2$/NDF:30579.8/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 8751831.3/18

Left In: 0.033+/-0.000 $\chi^2$/NDF:1525587.8/2

Left: 0.051+/-0.000 $\chi^2$/NDF: 3015401.5/7

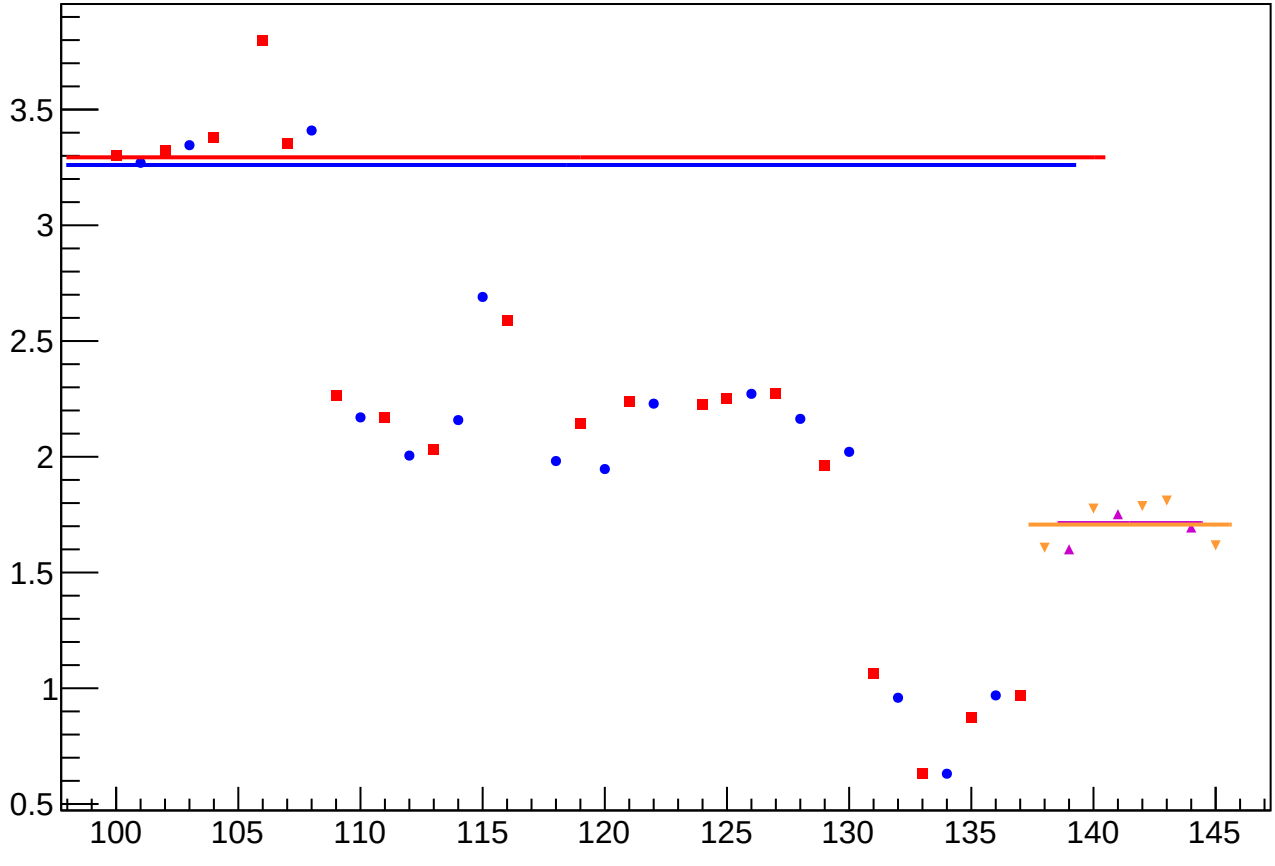
Right: 0.006+/-0.000 $\chi^2$/NDF: 17464019.8/34

In: 0.006+/-0.000 $\chi^2$/NDF:11443286.5/18

Out: 0.007+/-0.000 $\chi^2$/NDF:14367885.3/23

All: 0.007+/-0.000 $\chi^2$/NDF: 25853698.6/42

# yield_bpm0l03Y_mean vs Slug, Sign Corrected




Right In: 3.260+/-0.000 $\chi^2$/NDF: 3009624113.9/15

Left Out: 1.707+/-0.000 $\chi^2$/NDF:3596019.3/4

Right Out: 3.294+/-0.000 $\chi^2$/NDF: 3243748149.8/18

Left In: 1.714+/-0.000 $\chi^2$/NDF:1330005.8/2

Left: 1.710+/-0.000 $\chi^2$/NDF: 4934697.3/7

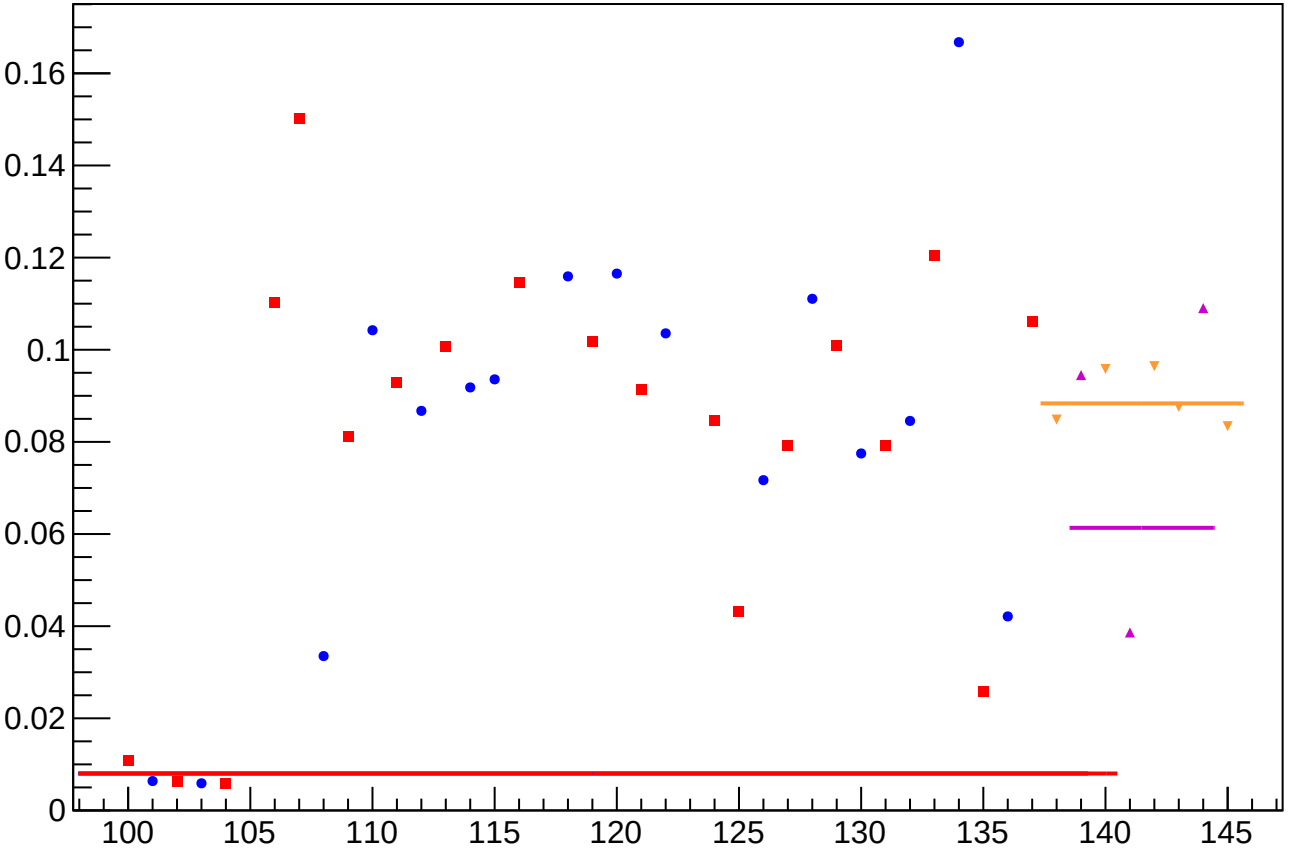
Right: 3.277+/-0.000 $\chi^2$/NDF: 6269939296.1/34

In: 3.241+/-0.000 $\chi^2$/NDF:3938552218.0/18

Out: 3.271+/-0.000 $\chi^2$/NDF:4317949978.7/23

All: 3.255+/-0.000 $\chi^2$/NDF: 8269722093.2/42

# yield_bpm0l03Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 8415681.1/15

Left Out: 0.088+/-0.000 $\chi^2$/NDF:22691.8/4

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 8542249.7/18

Left In: 0.061+/-0.000 $\chi^2$/NDF:732017.8/2

Left: 0.075+/-0.000 $\chi^2$/NDF: 1054675.6/7

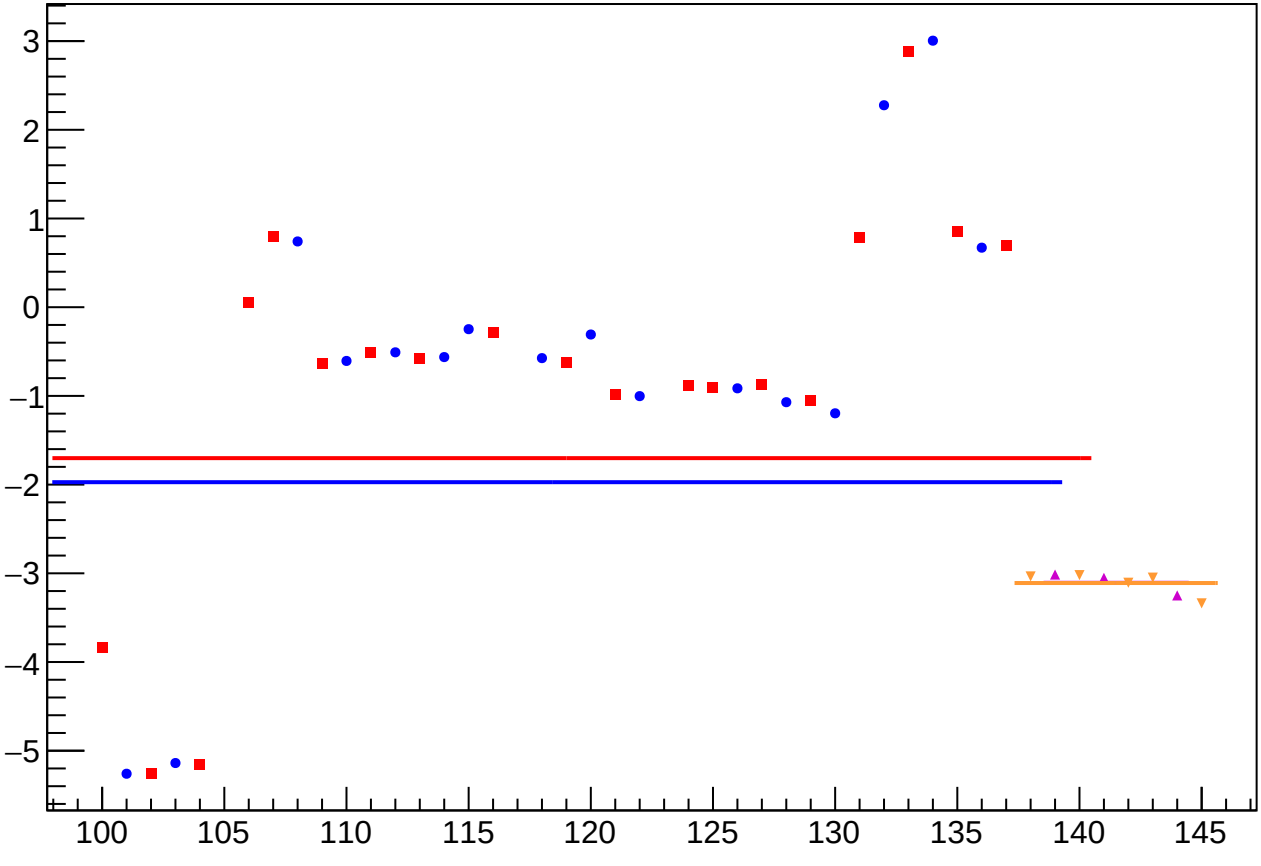
Right: 0.008+/-0.000 $\chi^2$/NDF: 16957931.3/34

In: 0.009+/-0.000 $\chi^2$/NDF:11352484.7/18

Out: 0.009+/-0.000 $\chi^2$/NDF:14055593.1/23

All: 0.009+/-0.000 $\chi^2$/NDF: 25415652.6/42

# yield_bpm0l04X_mean vs Slug, Sign Corrected




Right In: -1.973+/-0.000 $\chi^2$/NDF: 161975701237.3/15

Left Out: -3.109+/-0.000 $\chi^2$/NDF:886174437.2/4

Right Out: -1.702+/-0.000 $\chi^2$/NDF: 168156981746.0/18

Left In: -3.107+/-0.000 $\chi^2$/NDF:463528158.2/2

Left: -3.108+/-0.000 $\chi^2$/NDF: 1349864243.1/7

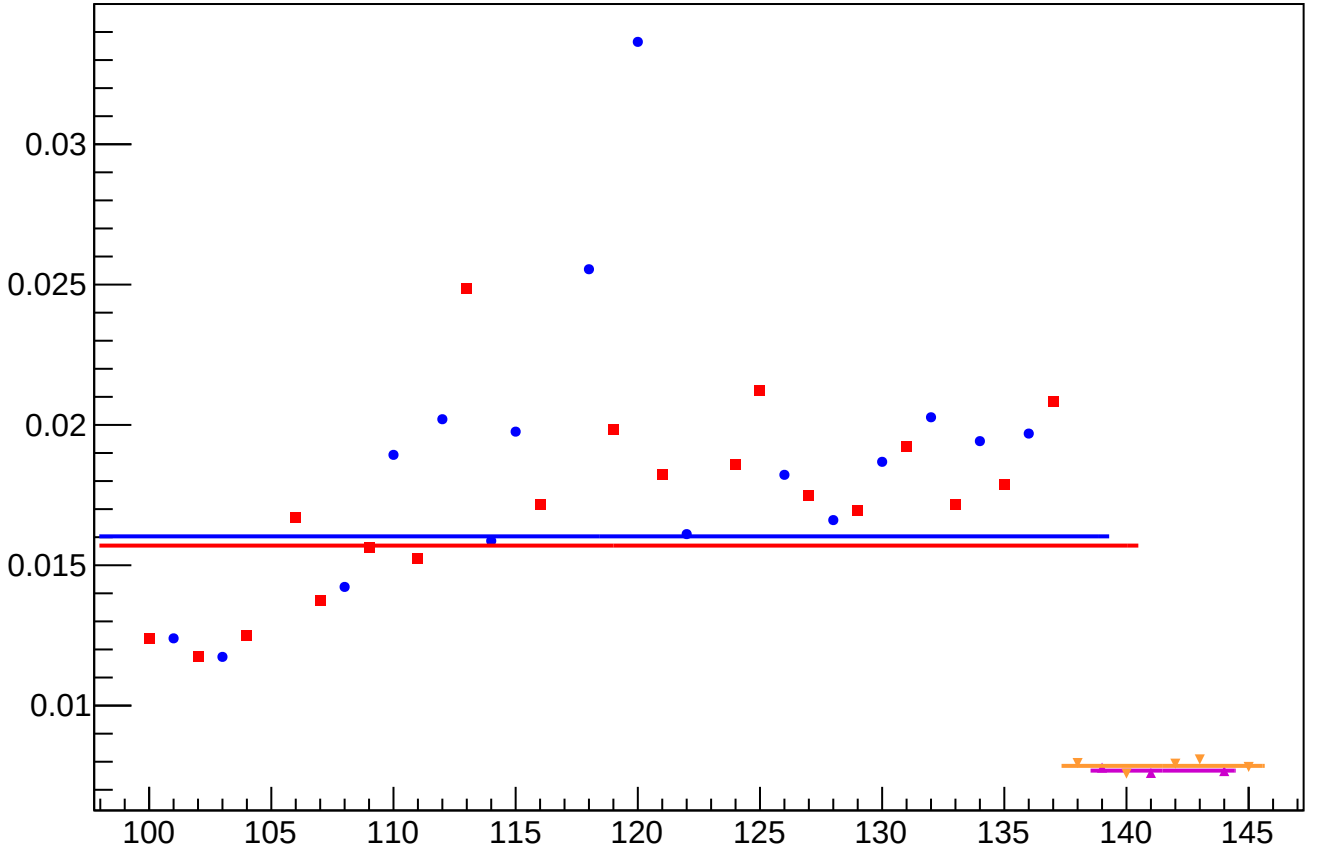
Right: -1.828+/-0.000 $\chi^2$/NDF: 331019535290.3/34

In: -2.717+/-0.000 $\chi^2$/NDF:181575769269.4/18

Out: -2.672+/-0.000 $\chi^2$/NDF:204350855851.4/23

All: -2.692+/-0.000 $\chi^2$/NDF: 386001161211.2

# 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:3818.6/4

Right Out: 0.016+/-0.000 $\chi^2$/NDF: 504766.0/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:525.0/2

Left: 0.008+/-0.000 $\chi^2$/NDF: 5757.0/7

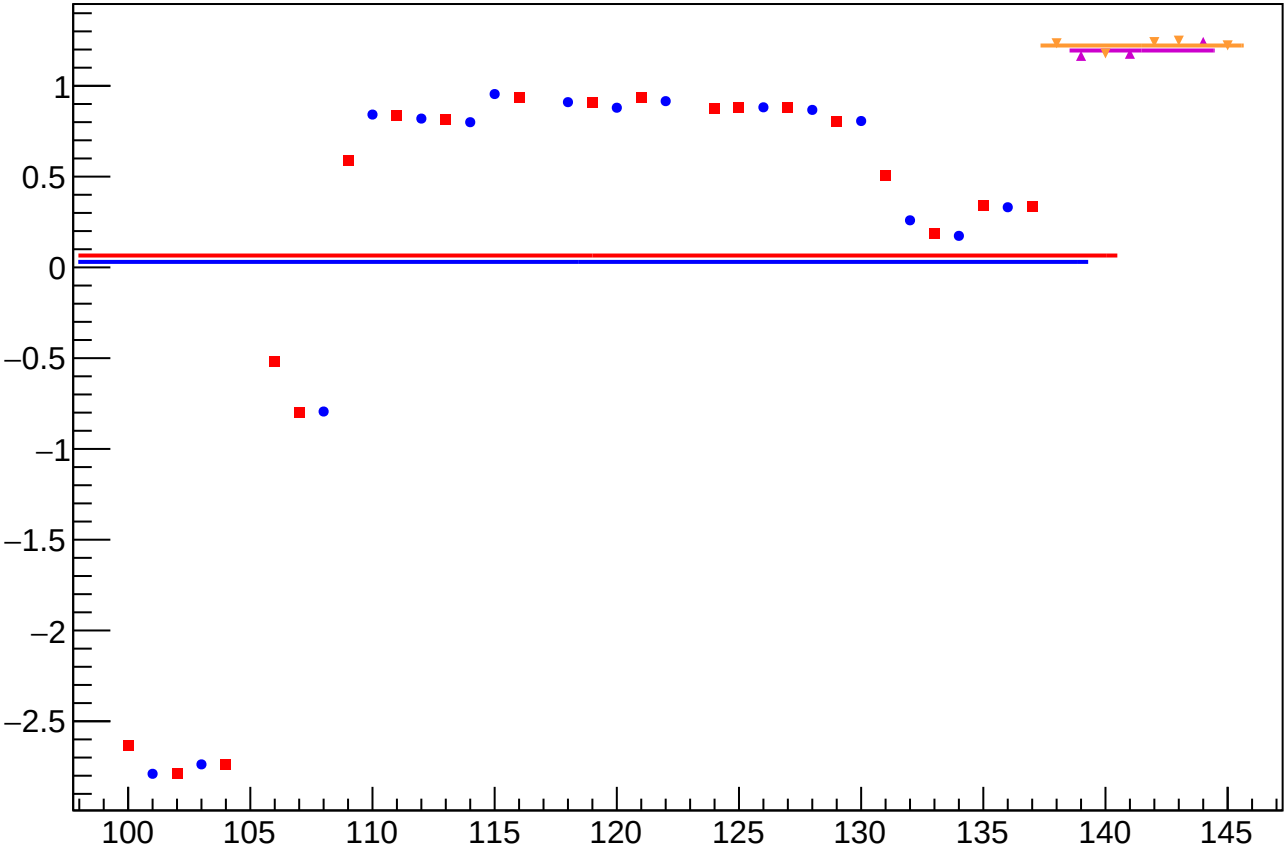
Right: 0.016+/-0.000 $\chi^2$/NDF: 1243118.0/34

In: 0.011+/-0.000 $\chi^2$/NDF:2808861.4/18

Out: 0.010+/-0.000 $\chi^2$/NDF:2703054.0/23

All: 0.010+/-0.000 $\chi^2$/NDF: 5516910.5/42

# yield_bpm0l04Y_mean vs Slug, Sign Corrected




Right In: 0.030+/-0.000 $\chi^2$/NDF: 851677270962.0/15

Left Out: 1.222+/-0.000 $\chi^2$/NDF:32587384.1/4

Right Out: 0.065+/-0.000 $\chi^2$/NDF: 935478930138.7/18

Left In: 1.195+/-0.000 $\chi^2$/NDF:38583132.7/2

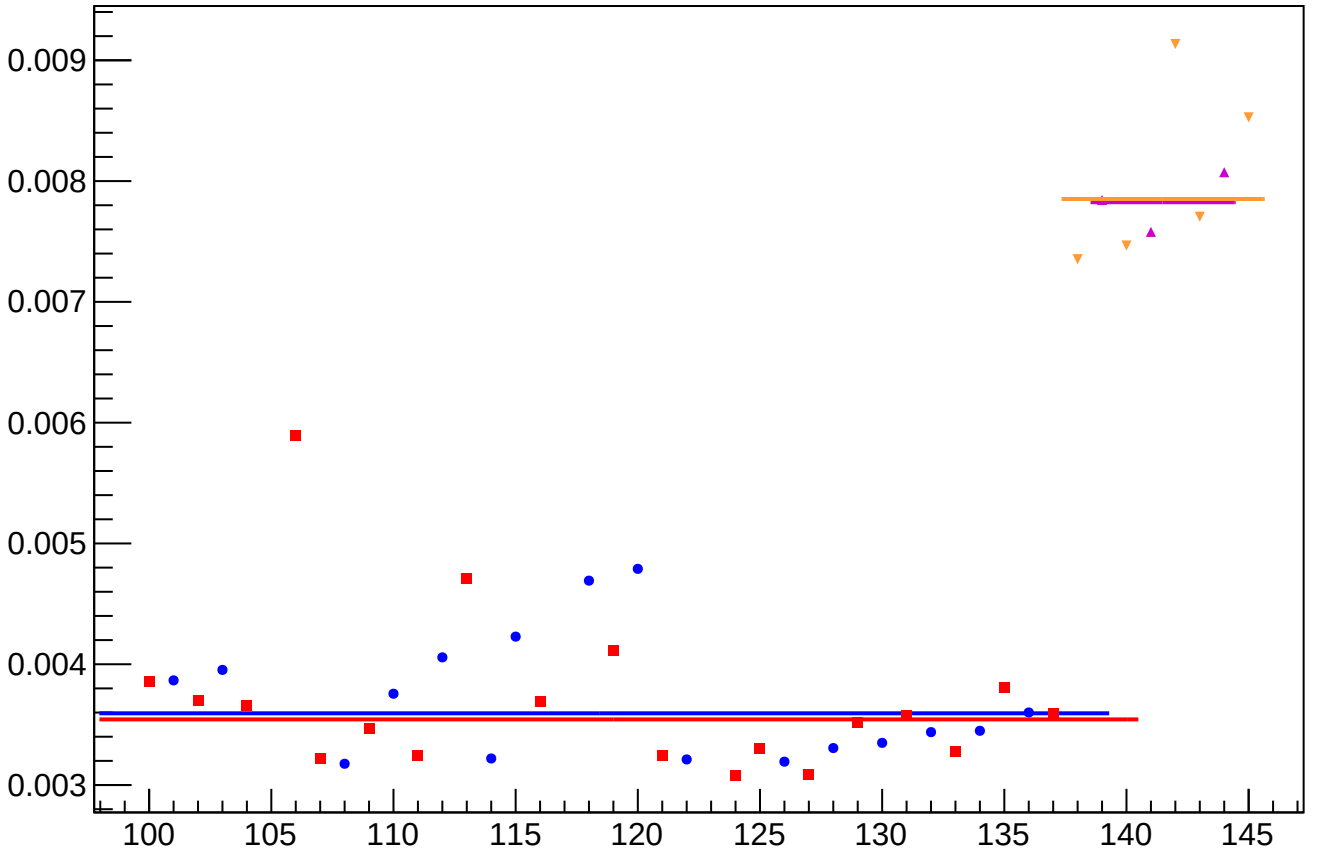
Left: 1.210+/-0.000 $\chi^2$/NDF: 86091922.8/7

Right: 0.048+/-0.000 $\chi^2$/NDF: 1787488269945.7/34

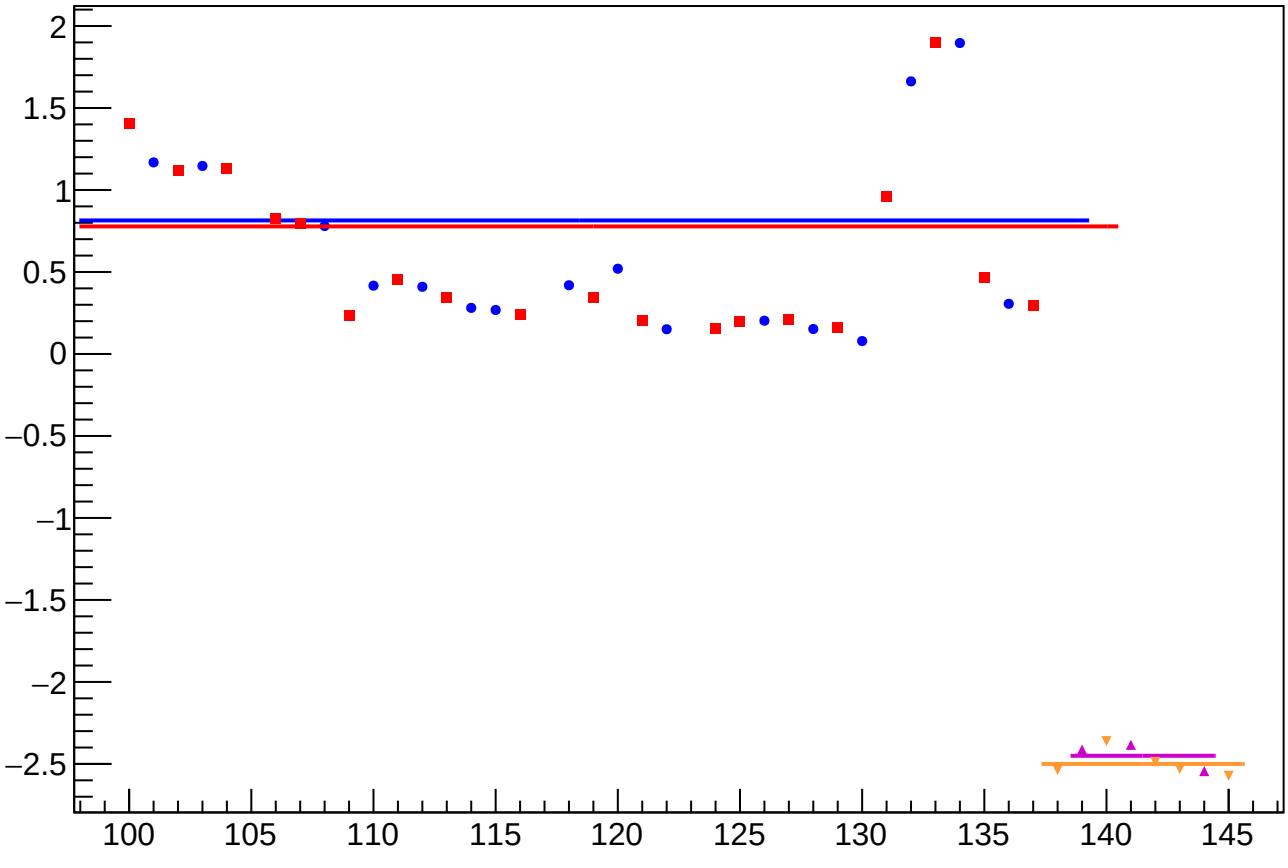
In: 0.102+/-0.000 $\chi^2$/NDF:895336154389.2/18

Out: 0.154+/-0.000 $\chi^2$/NDF:992703918286.8/23

All: 0.129+/-0.000 $\chi^2$/NDF: 1888809280959.


yield_bpm0l04Y_rms vs Slug, Sign Corrected
0.009
0.008
0.007
0.006
0.005
0.004
0.003
100
105
110
115
120
125
130
135
140
145
Right In: 0.004+/-0.000 χ²/NDF: 180415.0/15
Left Out: 0.008+/-0.000 χ²/NDF:31652.1/4
Right Out: 0.004+/-0.000 χ²/NDF: 224729.1/18
Left In: 0.008+/-0.000 χ²/NDF:2878.7/2
Left: 0.008+/-0.000 χ²/NDF: 34558.7/7
Right: 0.004+/-0.000 χ²/NDF: 406509.3/34
In: 0.004+/-0.000 χ²/NDF:1335370.1/18
Out: 0.004+/-0.000 χ²/NDF:1842880.8/23
All: 0.004+/-0.000 χ²/NDF: 3178426.9/42

# yield_bpm0l05X_mean vs Slug, Sign Corrected




Right In: 0.814+/-0.000 $\chi^2$/NDF: 35412149008.2/15

Left Out: -2.500+/-0.000 $\chi^2$/NDF:344310963.6/4

Right Out: 0.778+/-0.000 $\chi^2$/NDF: 34603328062.2/18

Left In: -2.450+/-0.000 $\chi^2$/NDF:202885935.0/2

Left: -2.480+/-0.000 $\chi^2$/NDF: 605985620.0/7

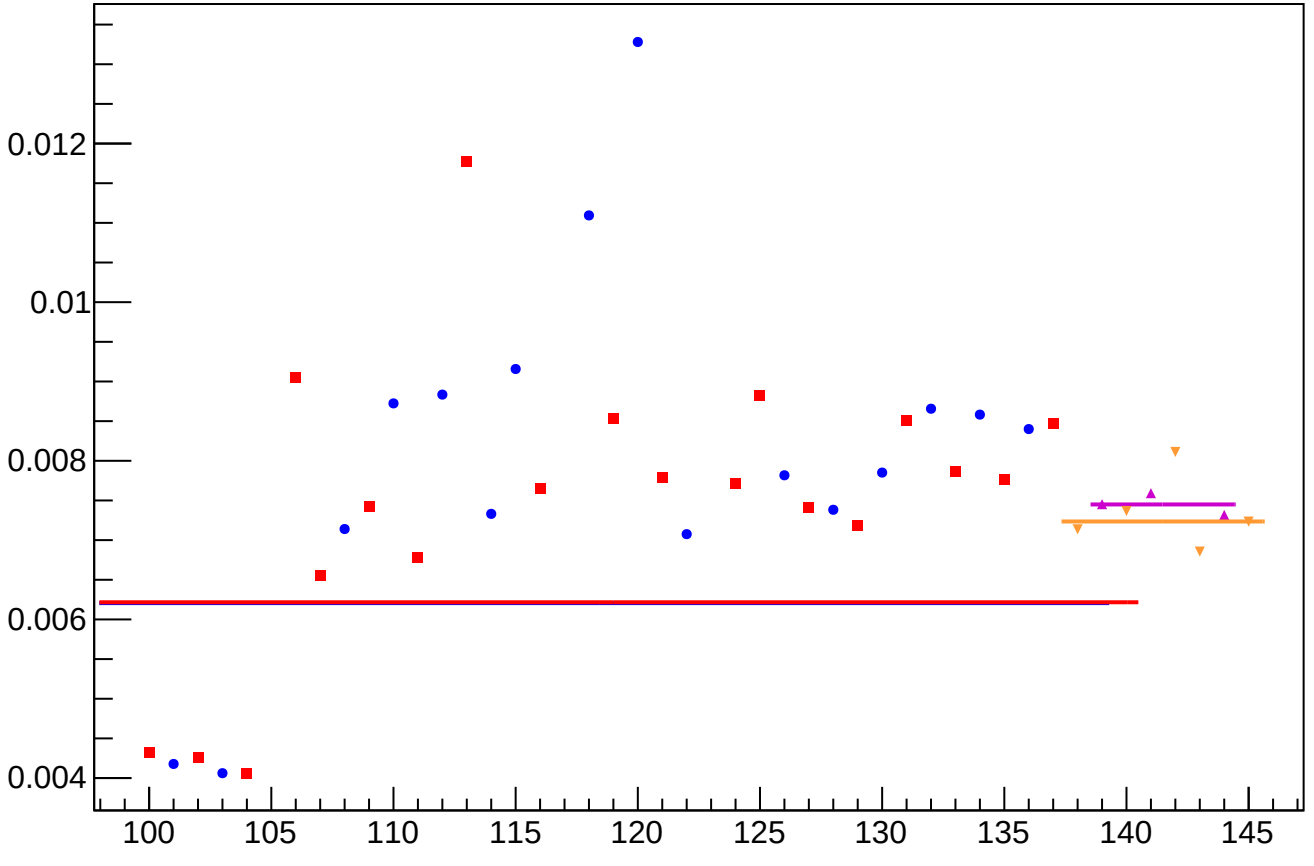
Right: 0.795+/-0.000 $\chi^2$/NDF: 70115223181.3/34

In: 0.104+/-0.000 $\chi^2$/NDF:370174195376.6/18

Out: -0.109+/-0.000 $\chi^2$/NDF:486847282698.7/23

All: -0.010+/-0.000 $\chi^2$/NDF: 861513492009.0

# yield_bpm0l05X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 1423886.1/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:13276.9/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 1161117.9/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:1035.4/2

Left: 0.007+/-0.000 $\chi^2$/NDF: 16494.9/7

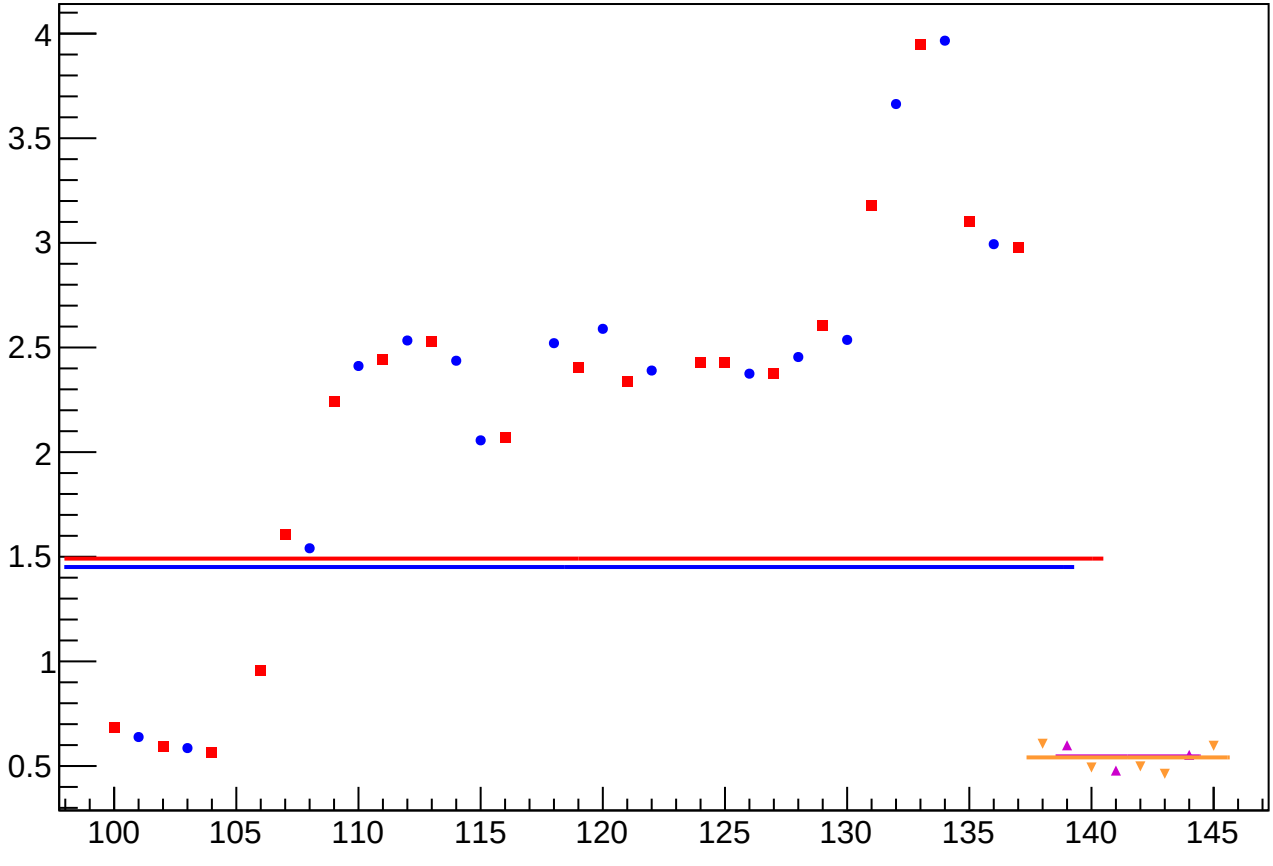
Right: 0.006+/-0.000 $\chi^2$/NDF: 2585020.0/34

In: 0.006+/-0.000 $\chi^2$/NDF:1522045.9/18

Out: 0.006+/-0.000 $\chi^2$/NDF:1261678.3/23

All: 0.006+/-0.000 $\chi^2$/NDF: 2783770.8/42

# yield_bpm0l05Y_mean vs Slug, Sign Corrected




Right In: 1.451+/-0.000 $\chi^2$/NDF: 169635774704.4/15

Left Out: 0.541+/-0.000 $\chi^2$/NDF:224908000.4/4

Right Out: 1.491+/-0.000 $\chi^2$/NDF: 186952709821.0/18

Left In: 0.546+/-0.000 $\chi^2$/NDF:101933943.8/2

Left: 0.543+/-0.000 $\chi^2$/NDF: 327494222.3/7

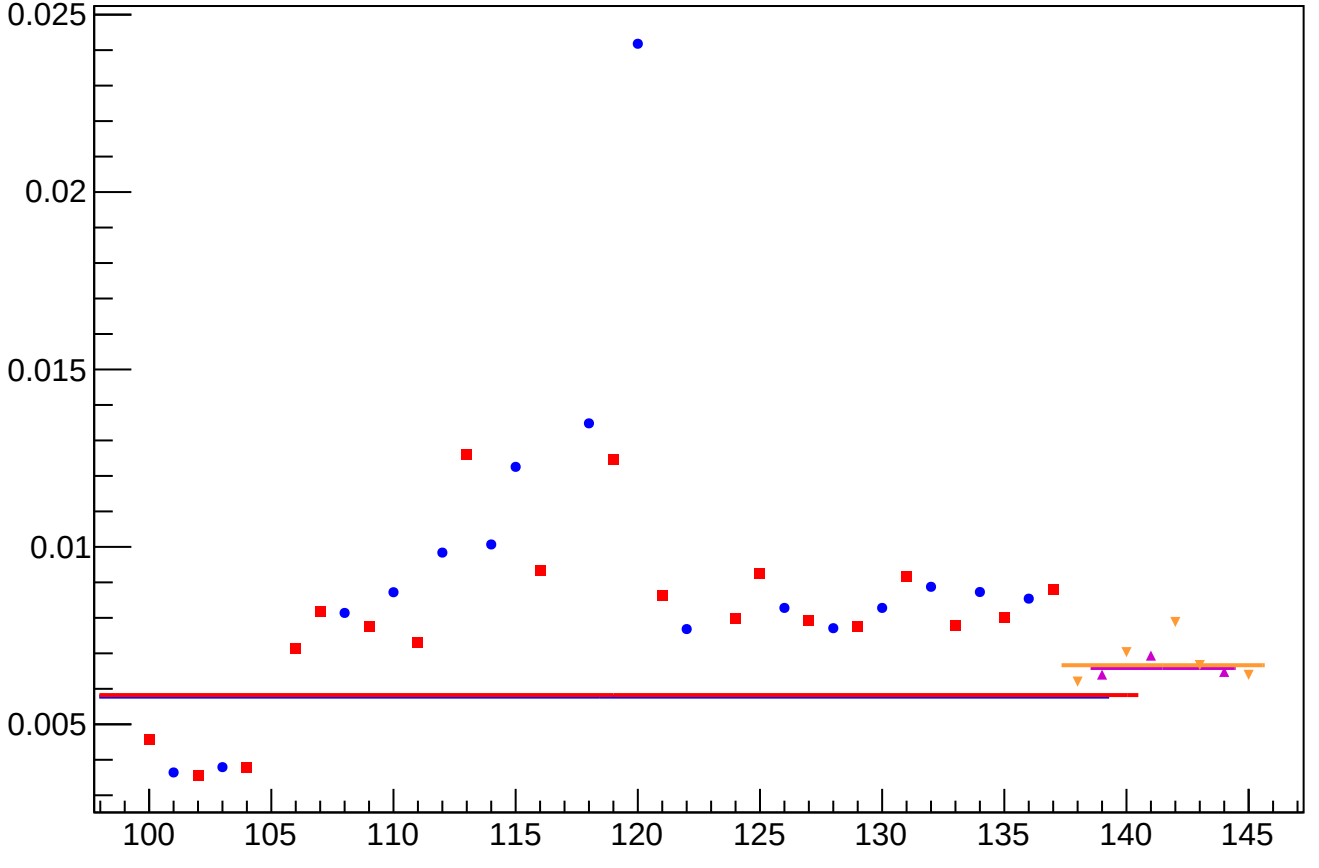
Right: 1.472+/-0.000 $\chi^2$/NDF: 356714546192.4/34

In: 1.245+/-0.000 $\chi^2$/NDF:197655542749.6/18

Out: 1.234+/-0.000 $\chi^2$/NDF:226537028986.9/23

All: 1.239+/-0.000 $\chi^2$/NDF: 424203935437.8

# yield_bpm0l05Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 2213885.3/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:27518.1/4

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 1955751.4/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:4598.2/2

Left: 0.007+/-0.000 $\chi^2$/NDF: 32419.2/7

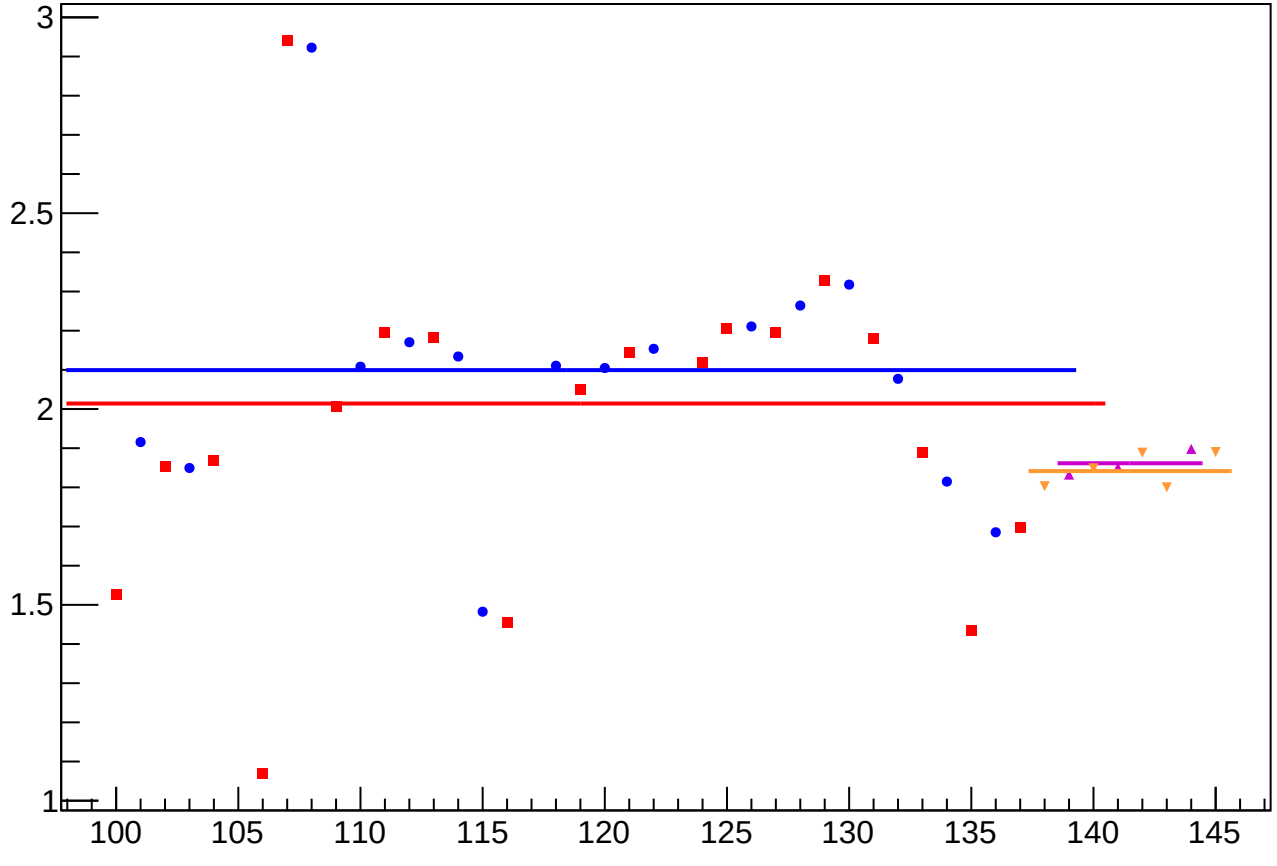
Right: 0.006+/-0.000 $\chi^2$/NDF: 4169928.0/34

In: 0.006+/-0.000 $\chi^2$/NDF:2262962.9/18

Out: 0.006+/-0.000 $\chi^2$/NDF:2045013.6/23

All: 0.006+/-0.000 $\chi^2$/NDF: 4309535.4/42

# yield_bpm0l06X_mean vs Slug, Sign Corrected




Right In: 2.099+/-0.000 $\chi^2$/NDF: 13928556396.8/15

Left Out: 1.842+/-0.000 $\chi^2$/NDF:62347534.1/4

Right Out: 2.014+/-0.000 $\chi^2$/NDF: 19615856596.5/18

Left In: 1.862+/-0.000 $\chi^2$/NDF:23138858.1/2

Left: 1.850+/-0.000 $\chi^2$/NDF: 92454874.8/7

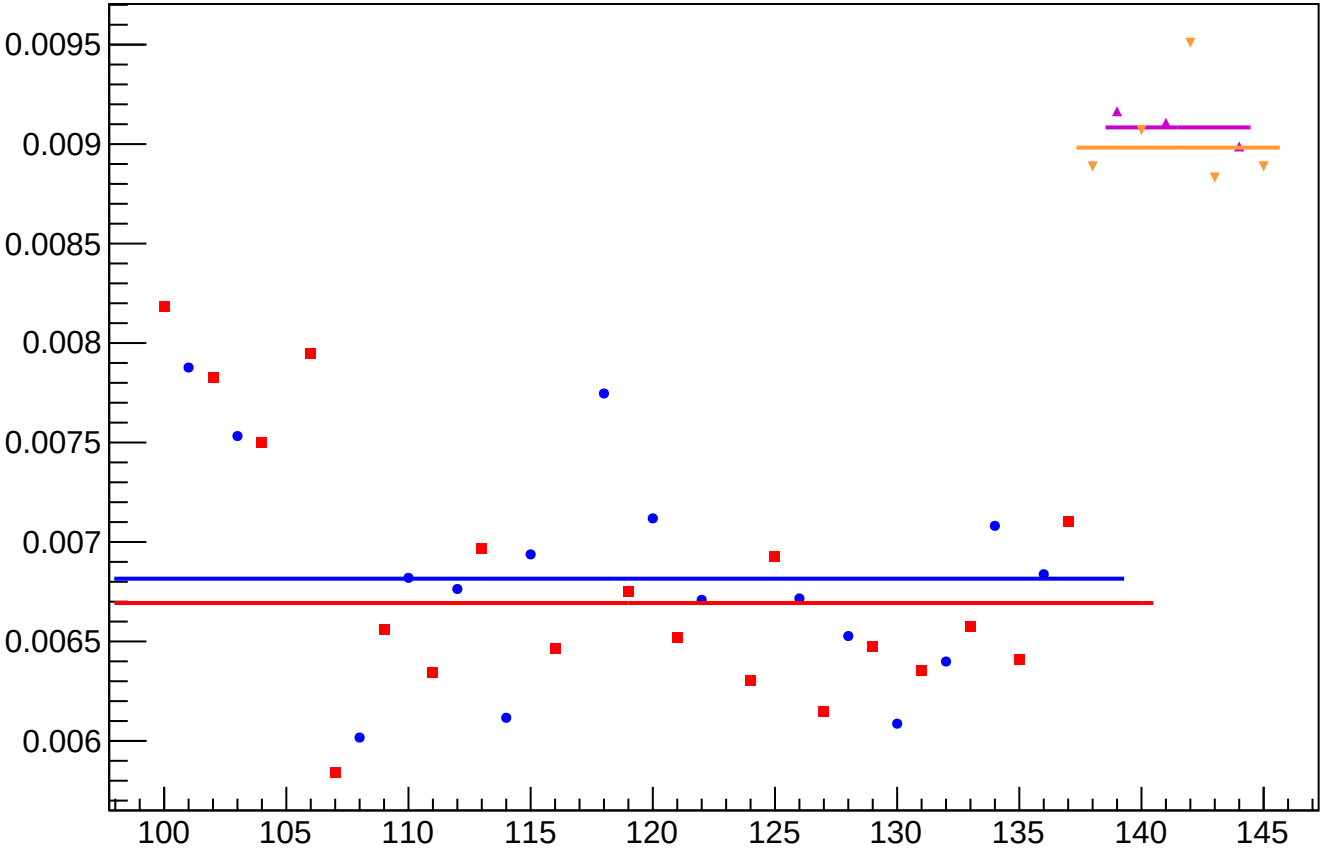
Right: 2.055+/-0.000 $\chi^2$/NDF: 34101176841.4/34

In: 2.059+/-0.000 $\chi^2$/NDF:15357423810.9/18

Out: 1.978+/-0.000 $\chi^2$/NDF:20661423113.7/23

All: 2.016+/-0.000 $\chi^2$/NDF: 36634250903.3/4

# yield_bpm0l06X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 86781.0/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:3367.9/4

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 87876.9/18

Left In: 0.009+/-0.000 $\chi^2$/NDF:326.6/2

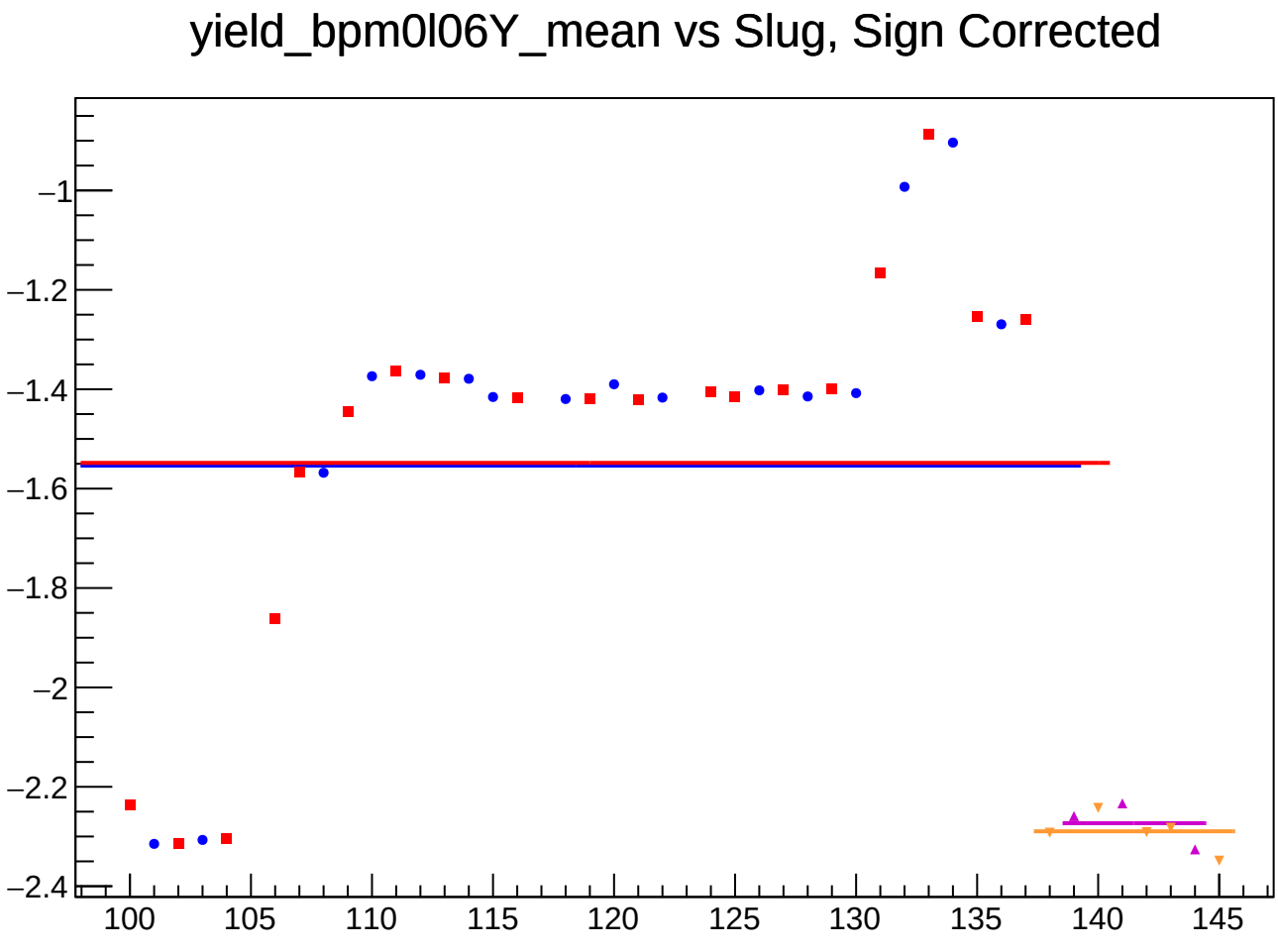
Left: 0.009+/-0.000 $\chi^2$/NDF: 4053.0/7

Right: 0.007+/-0.000 $\chi^2$/NDF: 176946.8/34

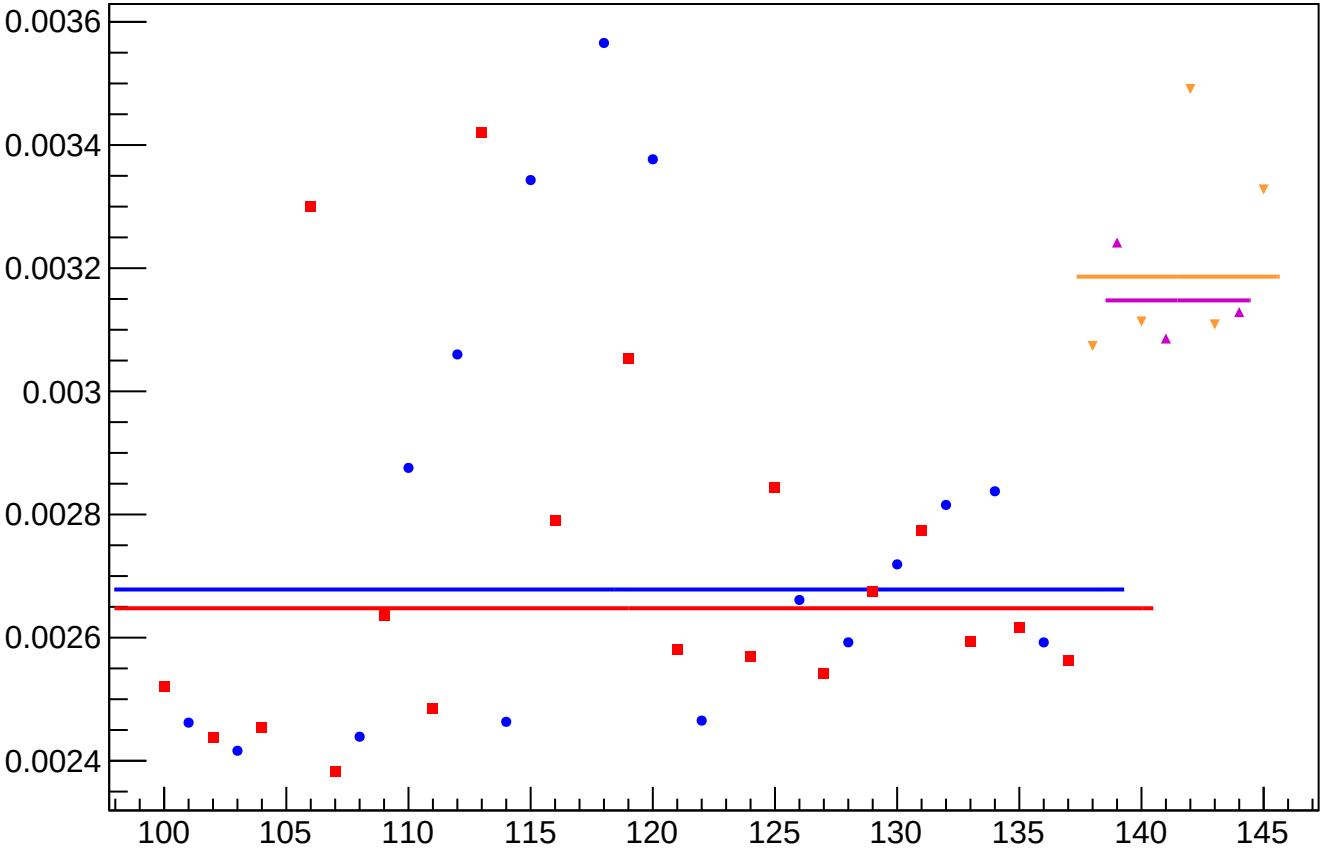
In: 0.007+/-0.000 $\chi^2$/NDF:342916.0/18

Out: 0.007+/-0.000 $\chi^2$/NDF:437632.4/23

All: 0.007+/-0.000 $\chi^2$/NDF: 780734.0/42


yield_bpm0l06Y_mean vs Slug, Sign Corrected
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
100
105
110
115
120
125
130
135
140
145
Right In: -1.554+/-0.000 χ²/NDF: 175176621986.0/15
Left Out: -2.290+/-0.000 χ²/NDF:391845459.9/4
Right Out: -1.548+/-0.000 χ²/NDF: 174743666302.8/18
Left In: -2.273+/-0.000 χ²/NDF:370966334.0/2
Left: -2.283+/-0.000 χ²/NDF: 798296012.6/7
Right: -1.551+/-0.000 χ²/NDF: 349934542439.1/34
In: -1.698+/-0.000 χ²/NDF:272497734598.8/18
Out: -1.725+/-0.000 χ²/NDF:306163113600.5/23
All: -1.712+/-0.000 χ²/NDF: 579119974475.1

# 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:12013.9/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 116150.5/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:1932.2/2

Left: 0.003+/-0.000 $\chi^2$/NDF: 14343.9/7

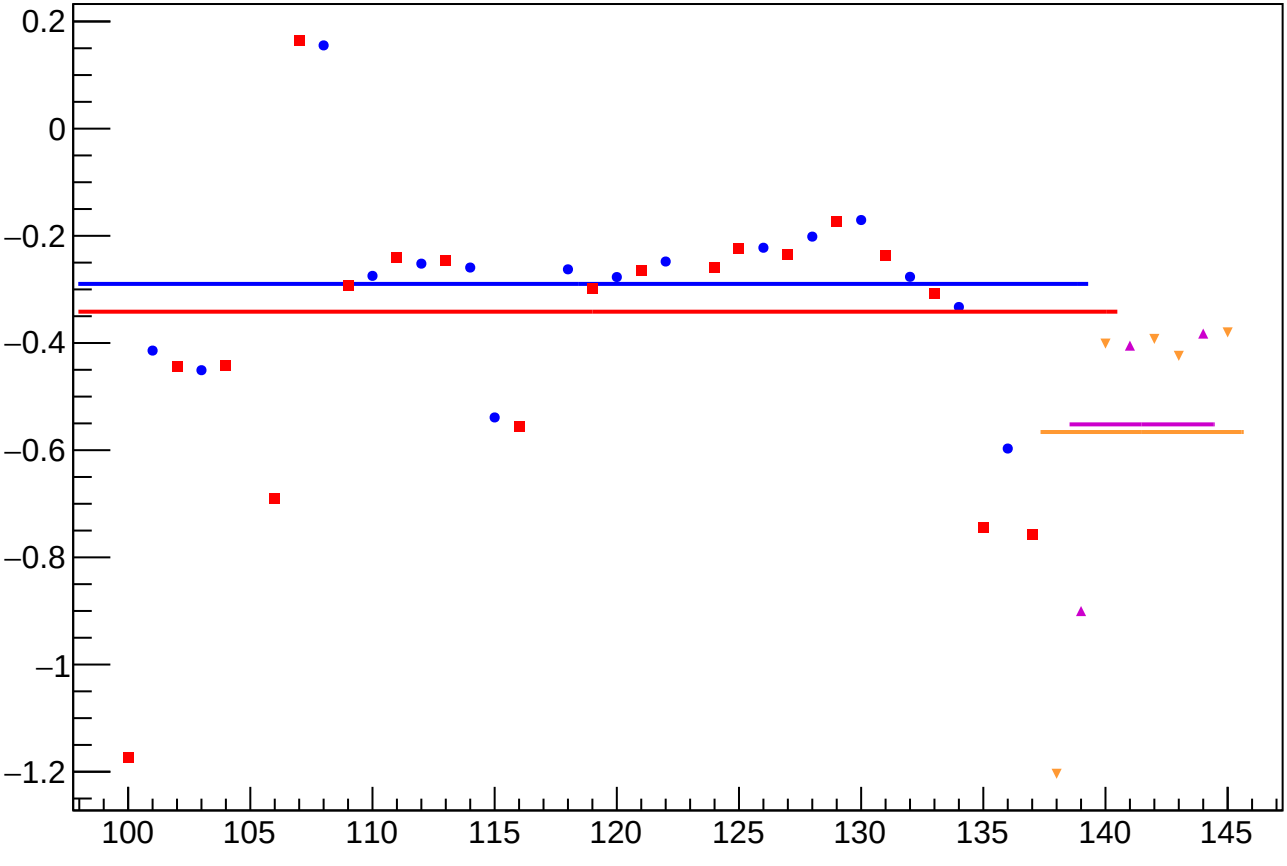
Right: 0.003+/-0.000 $\chi^2$/NDF: 274930.8/34

In: 0.003+/-0.000 $\chi^2$/NDF:242350.6/18

Out: 0.003+/-0.000 $\chi^2$/NDF:266451.4/23

All: 0.003+/-0.000 $\chi^2$/NDF: 508820.8/42

# yield_bpm0l07X_mean vs Slug, Sign Corrected




Right In: -0.290+/-0.000 $\chi^2$/NDF: 1645174238.4/15

Left Out: -0.566+/-0.000 $\chi^2$/NDF:1620753387.0/4

Right Out: -0.342+/-0.000 $\chi^2$/NDF: 2609243421.7/18

Left In: -0.552+/-0.000 $\chi^2$/NDF:620354515.4/2

Left: -0.560+/-0.000 $\chi^2$/NDF: 2242420026.6/7

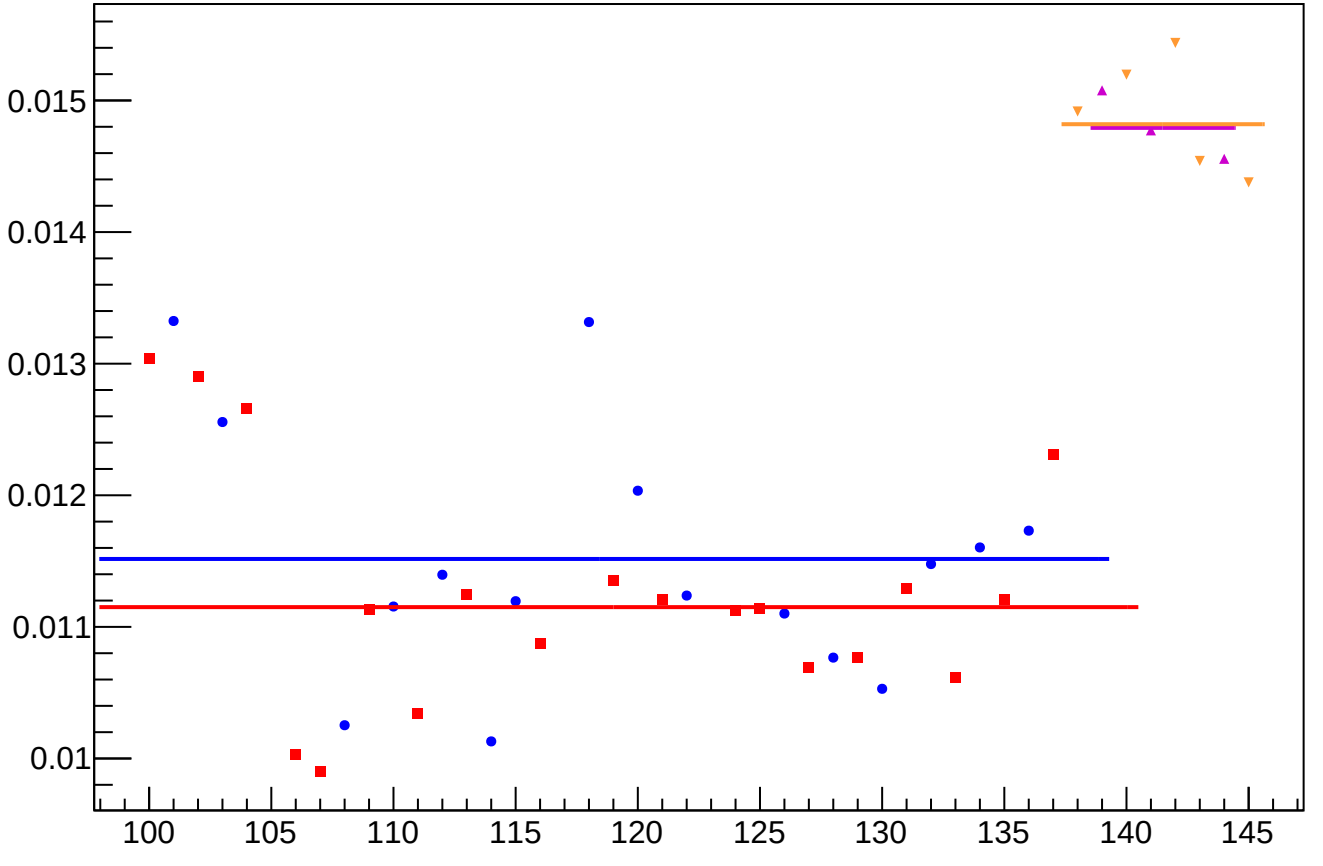
Right: -0.317+/-0.000 $\chi^2$/NDF: 4328413510.6/34

In: -0.336+/-0.000 $\chi^2$/NDF:2899803861.1/18

Out: -0.388+/-0.000 $\chi^2$/NDF:4840493673.5/23

All: -0.364+/-0.000 $\chi^2$/NDF: 7832457365.2/4

# yield_bpm0l07X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 84278.9/15

Left Out: 0.015+/-0.000 $\chi^2$/NDF:4265.9/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 70560.1/18

Left In: 0.015+/-0.000 $\chi^2$/NDF:1011.4/2

Left: 0.015+/-0.000 $\chi^2$/NDF: 5287.4/7

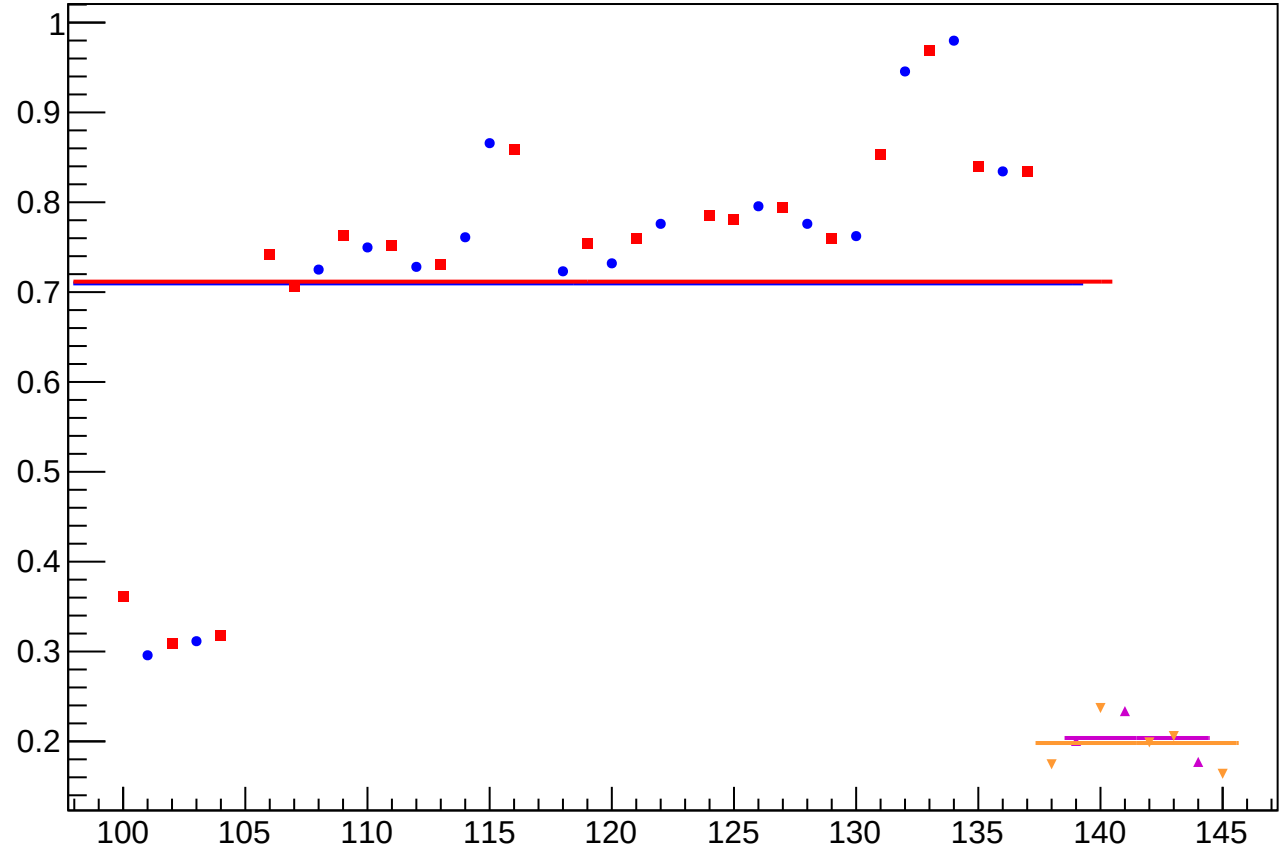
Right: 0.011+/-0.000 $\chi^2$/NDF: 162212.6/34

In: 0.012+/-0.000 $\chi^2$/NDF:283401.1/18

Out: 0.012+/-0.000 $\chi^2$/NDF:401008.7/23

All: 0.012+/-0.000 $\chi^2$/NDF: 686724.7/42

# yield_bpm0l07Y_mean vs Slug, Sign Corrected




Right In: 0.710+/-0.000 $\chi^2$/NDF: 48924347494.6/15

Left Out: 0.198+/-0.000 $\chi^2$/NDF:620260980.5/4

Right Out: 0.712+/-0.000 $\chi^2$/NDF: 44174681920.8/18

Left In: 0.204+/-0.000 $\chi^2$/NDF:340783372.7/2

Left: 0.201+/-0.000 $\chi^2$/NDF: 972319189.0/7

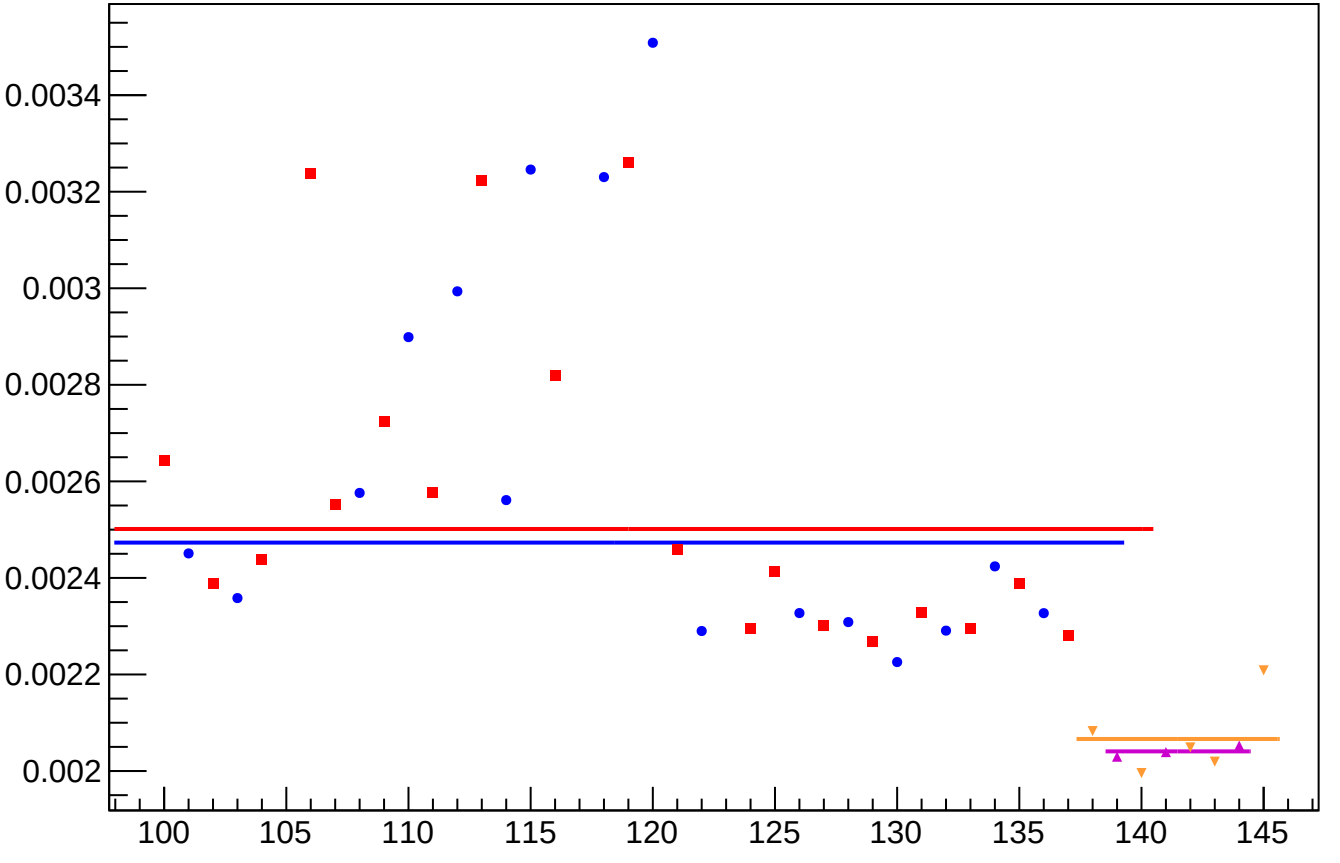
Right: 0.711+/-0.000 $\chi^2$/NDF: 93101138571.1/34

In: 0.528+/-0.000 $\chi^2$/NDF:151957908656.7/18

Out: 0.490+/-0.000 $\chi^2$/NDF:172636509363.5/23

All: 0.508+/-0.000 $\chi^2$/NDF: 325891673544.4

# 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:9669.8/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 177427.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:111.6/2

Left: 0.002+/-0.000 $\chi^2$/NDF: 10258.7/7

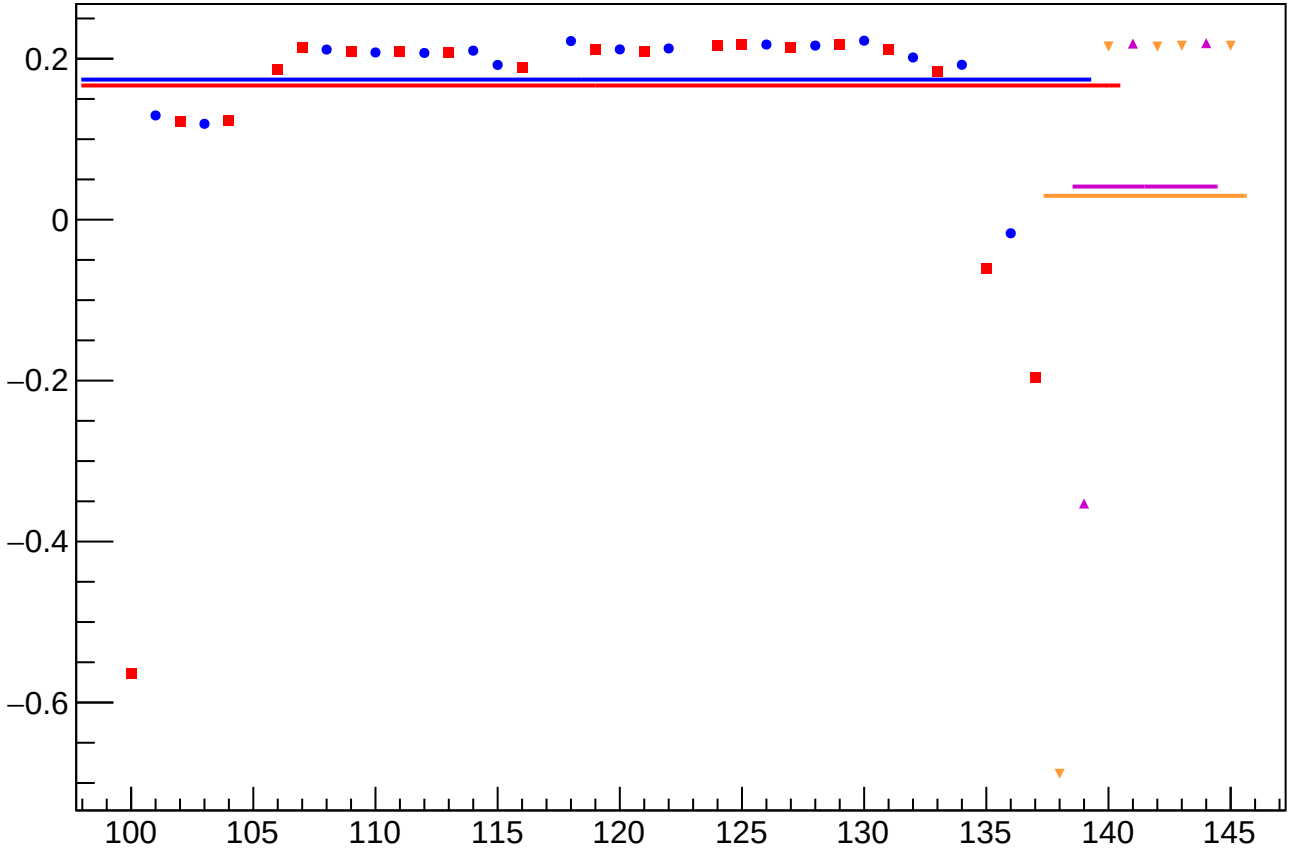
Right: 0.002+/-0.000 $\chi^2$/NDF: 386364.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:358211.4/18

Out: 0.002+/-0.000 $\chi^2$/NDF:370566.4/23

All: 0.002+/-0.000 $\chi^2$/NDF: 728803.8/42

# yield_bpm0l08X_mean vs Slug, Sign Corrected




Right In: 0.174+/-0.000 $\chi^2$/NDF: 401946344.0/15

Left Out: 0.030+/-0.000 $\chi^2$/NDF:2527744380.7/4

Right Out: 0.167+/-0.000 $\chi^2$/NDF: 894131198.6/18

Left In: 0.041+/-0.000 $\chi^2$/NDF:976308144.1/2

Left: 0.035+/-0.000 $\chi^2$/NDF: 3505113253.4/7

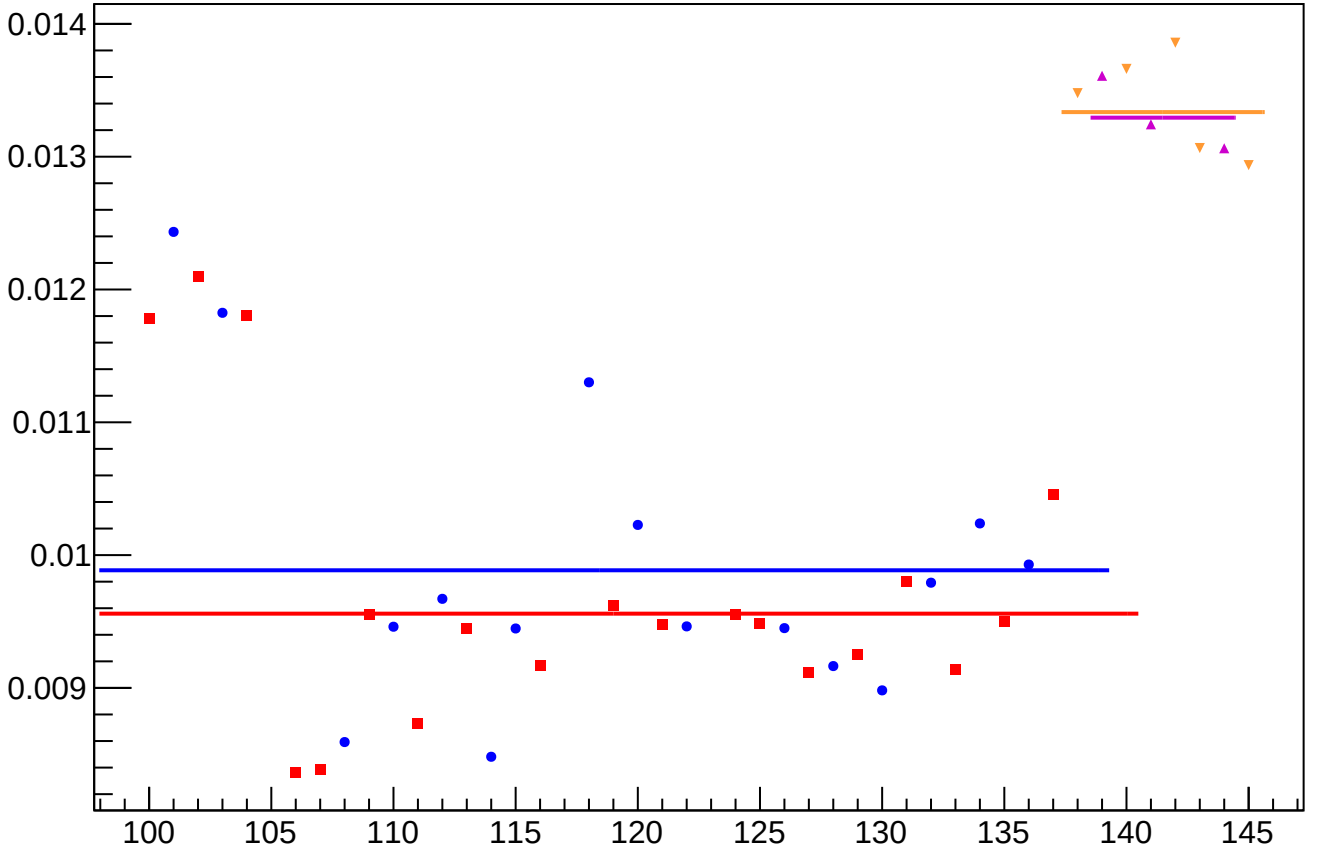
Right: 0.170+/-0.000 $\chi^2$/NDF: 1298066263.7/34

In: 0.152+/-0.000 $\chi^2$/NDF:1583583926.4/18

Out: 0.140+/-0.000 $\chi^2$/NDF:3708565704.8/23

All: 0.146+/-0.000 $\chi^2$/NDF: 5298491809.6/42

# yield_bpm0l08X_rms vs Slug, Sign Corrected




Right In: 0.010+/-0.000 $\chi^2$/NDF: 148562.0/15

Left Out: 0.013+/-0.000 $\chi^2$/NDF:4254.8/4

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 136197.0/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:1408.4/2

Left: 0.013+/-0.000 $\chi^2$/NDF: 5691.4/7

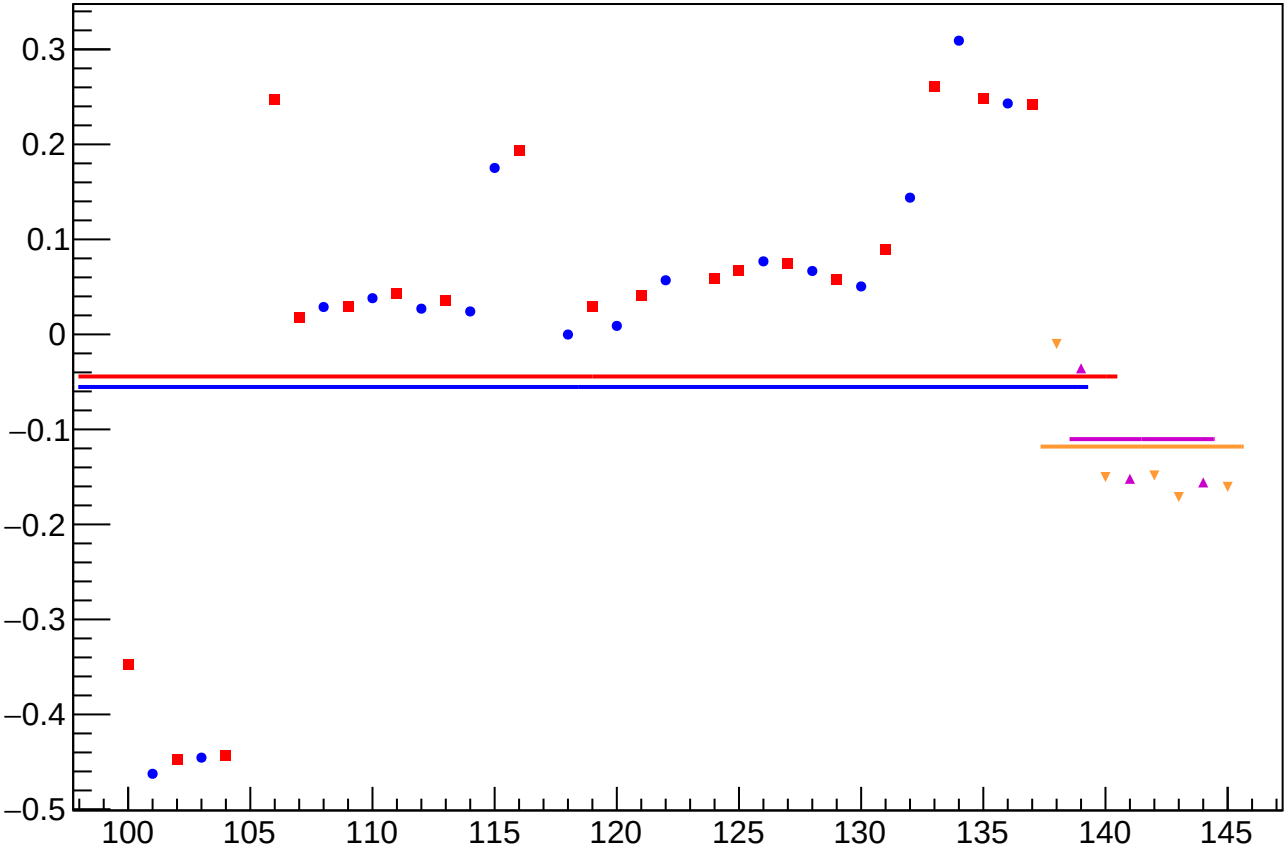
Right: 0.010+/-0.000 $\chi^2$/NDF: 292678.0/34

In: 0.010+/-0.000 $\chi^2$/NDF:419977.9/18

Out: 0.010+/-0.000 $\chi^2$/NDF:575595.4/23

All: 0.010+/-0.000 $\chi^2$/NDF: 997886.3/42

# yield_bpm0l08Y_mean vs Slug, Sign Corrected




Right In: -0.055+/-0.000 $\chi^2$/NDF: 24081939190.6/15

Left Out: -0.118+/-0.000 $\chi^2$/NDF:1539897844.1/4

Right Out: -0.044+/-0.000 $\chi^2$/NDF: 22136167141.7/18

Left In: -0.110+/-0.000 $\chi^2$/NDF:857651446.4/2

Left: -0.115+/-0.000 $\chi^2$/NDF: 2406780341.3/7

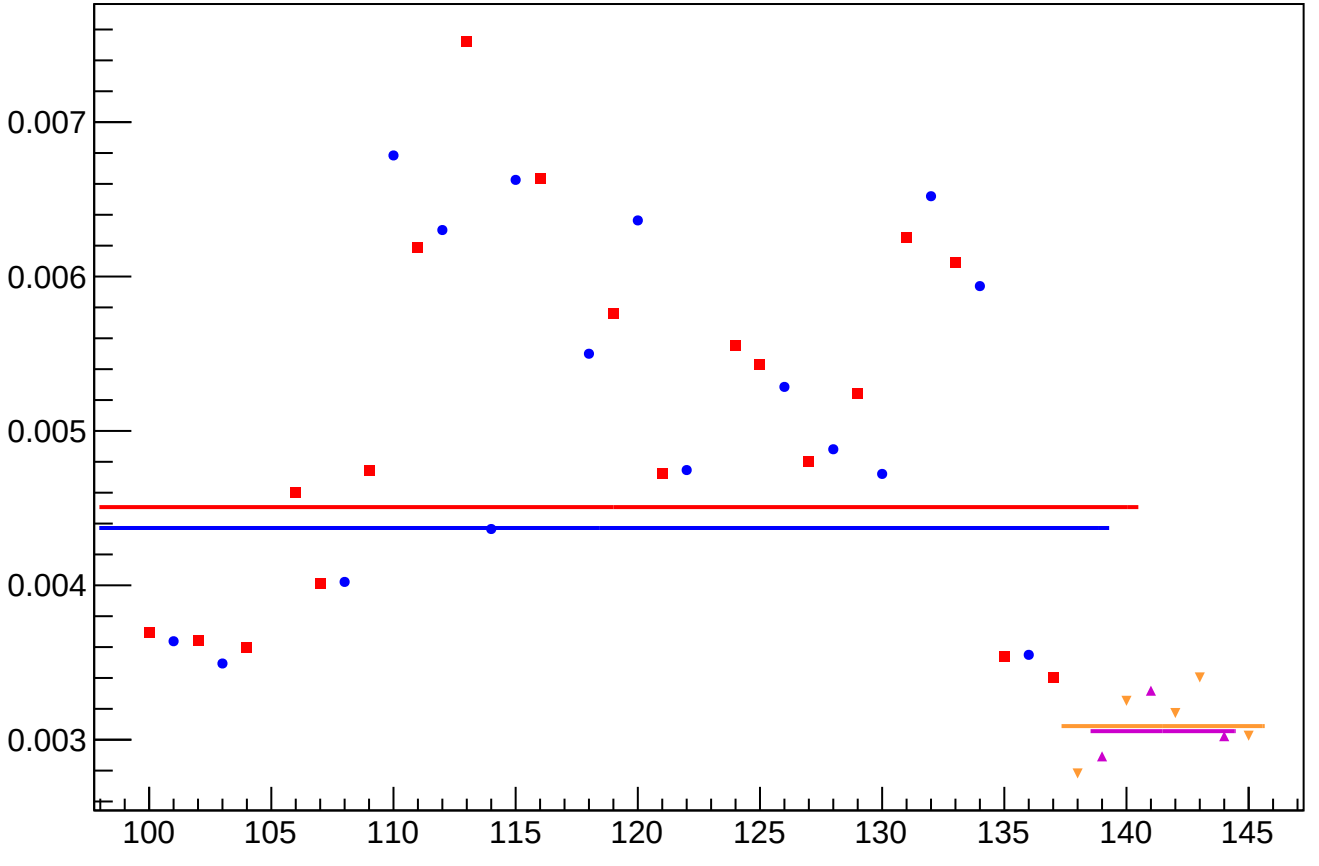
Right: -0.050+/-0.000 $\chi^2$/NDF: 46237436160.9/34

In: -0.080+/-0.000 $\chi^2$/NDF:25373037130.4/18

Out: -0.083+/-0.000 $\chi^2$/NDF:24577225442.3/23

All: -0.082+/-0.000 $\chi^2$/NDF: 49953121925.8/

# yield_bpm0l08Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 660432.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:35125.8/4

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 704549.6/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:15247.7/2

Left: 0.003+/-0.000 $\chi^2$/NDF: 50695.1/7

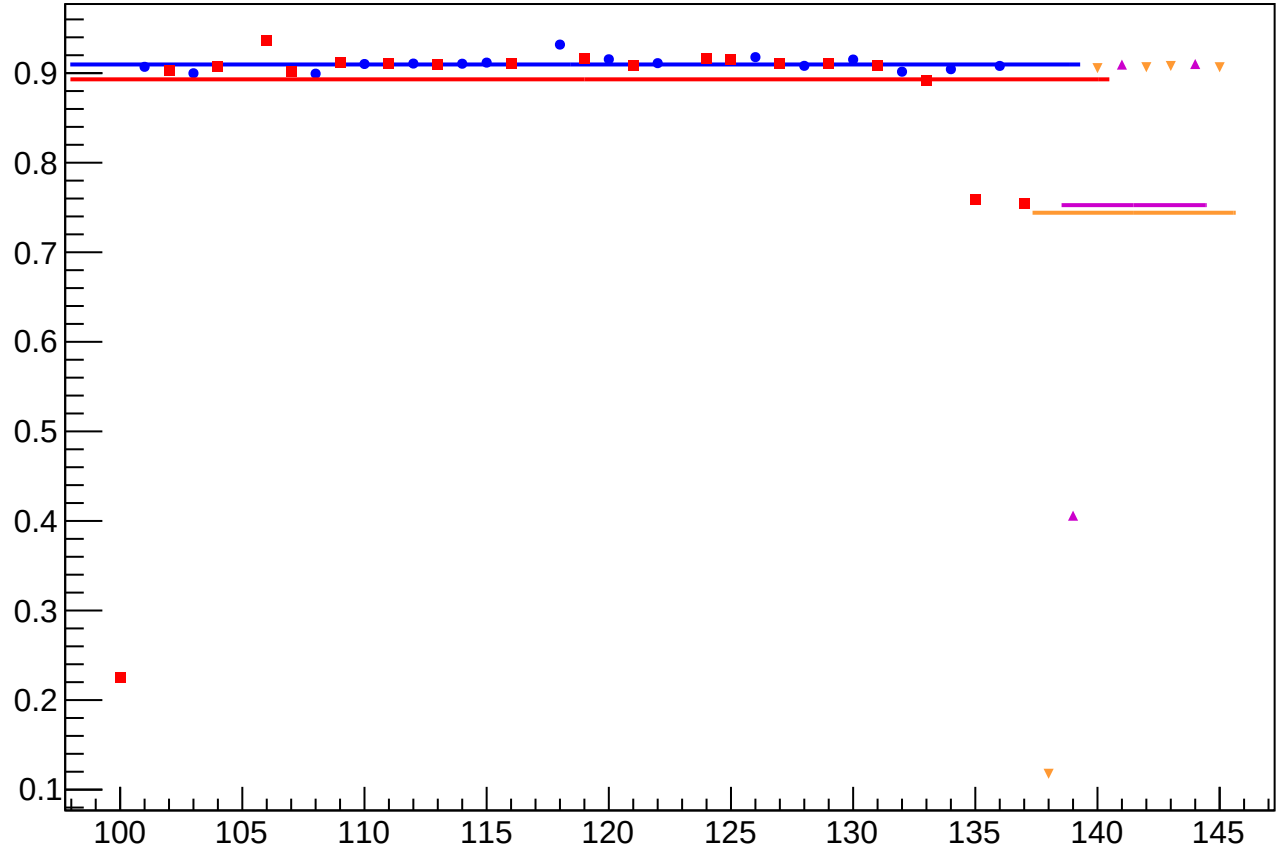
Right: 0.004+/-0.000 $\chi^2$/NDF: 1370782.0/34

In: 0.004+/-0.000 $\chi^2$/NDF:1173947.1/18

Out: 0.004+/-0.000 $\chi^2$/NDF:1405698.2/23

All: 0.004+/-0.000 $\chi^2$/NDF: 2579843.8/42

# yield_bpm0l09X_mean vs Slug, Sign Corrected




Right In: 0.910+/-0.000 $\chi^2$/NDF: 3133349.6/15

Left Out: 0.744+/-0.000 $\chi^2$/NDF:2091472333.0/4

Right Out: 0.893+/-0.000 $\chi^2$/NDF: 327979021.4/18

Left In: 0.753+/-0.000 $\chi^2$/NDF:822691091.1/2

Left: 0.748+/-0.000 $\chi^2$/NDF: 2914789591.5/7

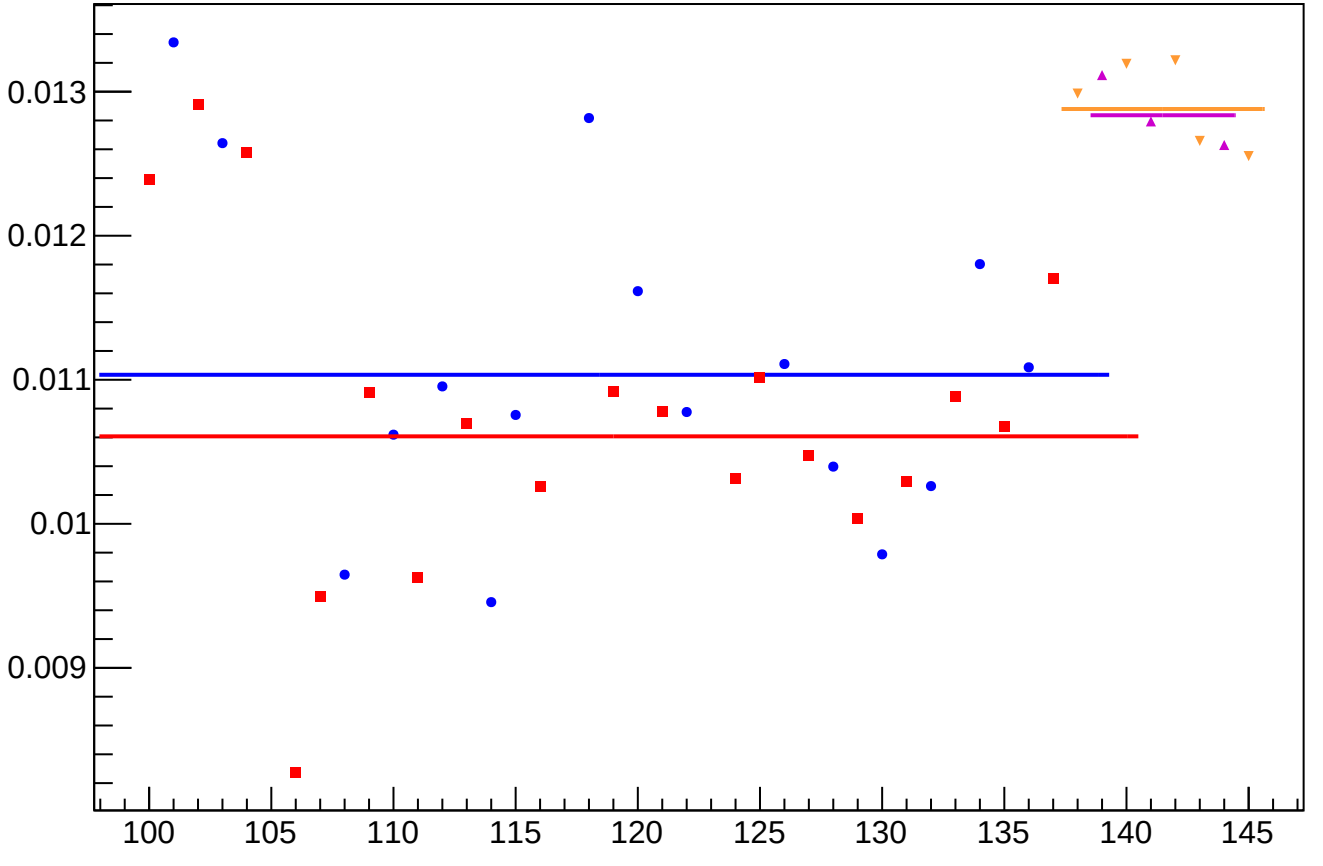
Right: 0.901+/-0.000 $\chi^2$/NDF: 339373965.5/34

In: 0.877+/-0.000 $\chi^2$/NDF:1119452893.9/18

Out: 0.857+/-0.000 $\chi^2$/NDF:2764416624.1/23

All: 0.866+/-0.000 $\chi^2$/NDF: 3898778790.3/42

# yield_bpm0l09X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 130353.1/15

Left Out: 0.013+/-0.000 $\chi^2$/NDF:3000.4/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 143947.4/18

Left In: 0.013+/-0.000 $\chi^2$/NDF:1203.9/2

Left: 0.013+/-0.000 $\chi^2$/NDF: 4236.9/7

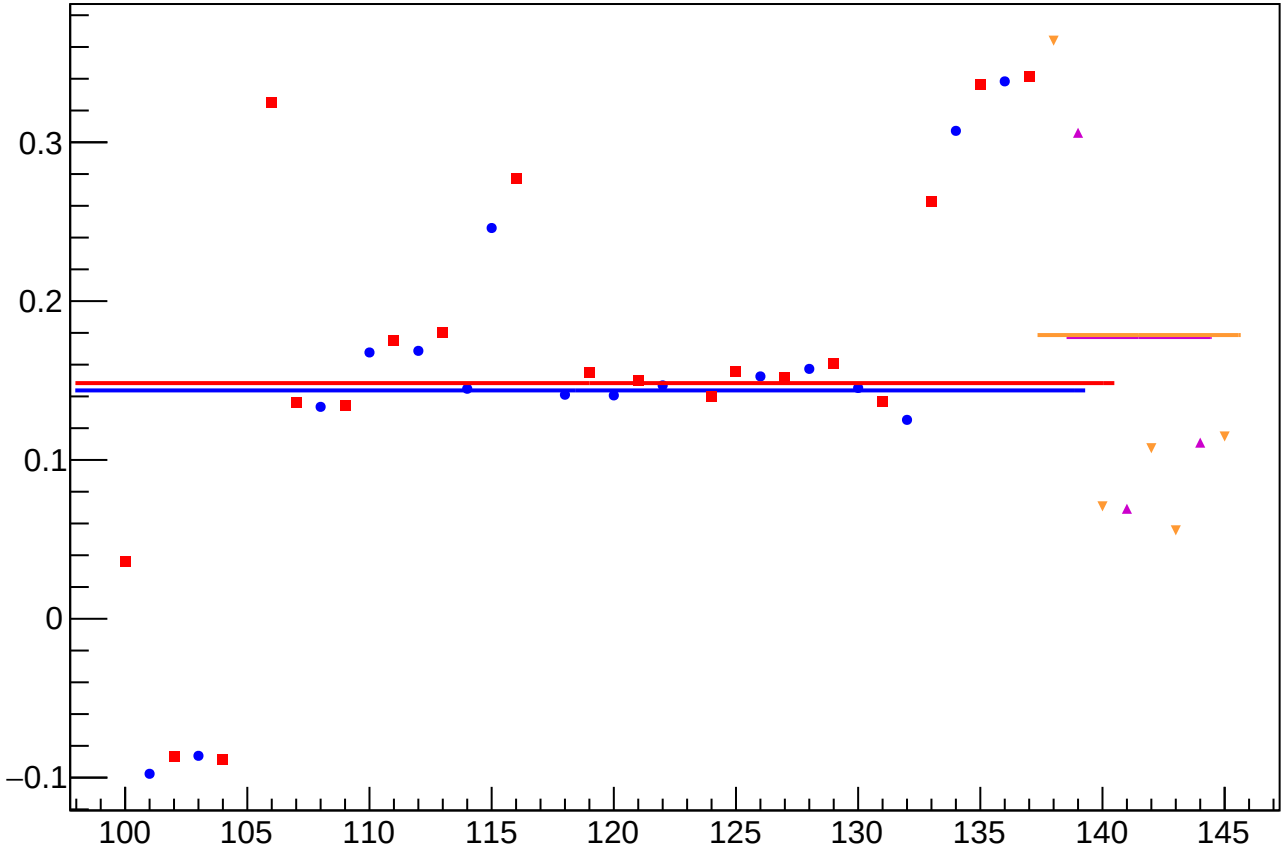
Right: 0.011+/-0.000 $\chi^2$/NDF: 285253.7/34

In: 0.011+/-0.000 $\chi^2$/NDF:208835.5/18

Out: 0.011+/-0.000 $\chi^2$/NDF:307537.6/23

All: 0.011+/-0.000 $\chi^2$/NDF: 521443.5/42

# yield_bpm0l09Y_mean vs Slug, Sign Corrected




Right In: 0.144+/-0.000 $\chi^2$/NDF: 7867304536.4/15

Left Out: 0.179+/-0.000 $\chi^2$/NDF:3966178826.4/4

Right Out: 0.148+/-0.000 $\chi^2$/NDF: 7128567107.5/18

Left In: 0.177+/-0.000 $\chi^2$/NDF:1872888362.4/2

Left: 0.178+/-0.000 $\chi^2$/NDF: 5839219459.2/7

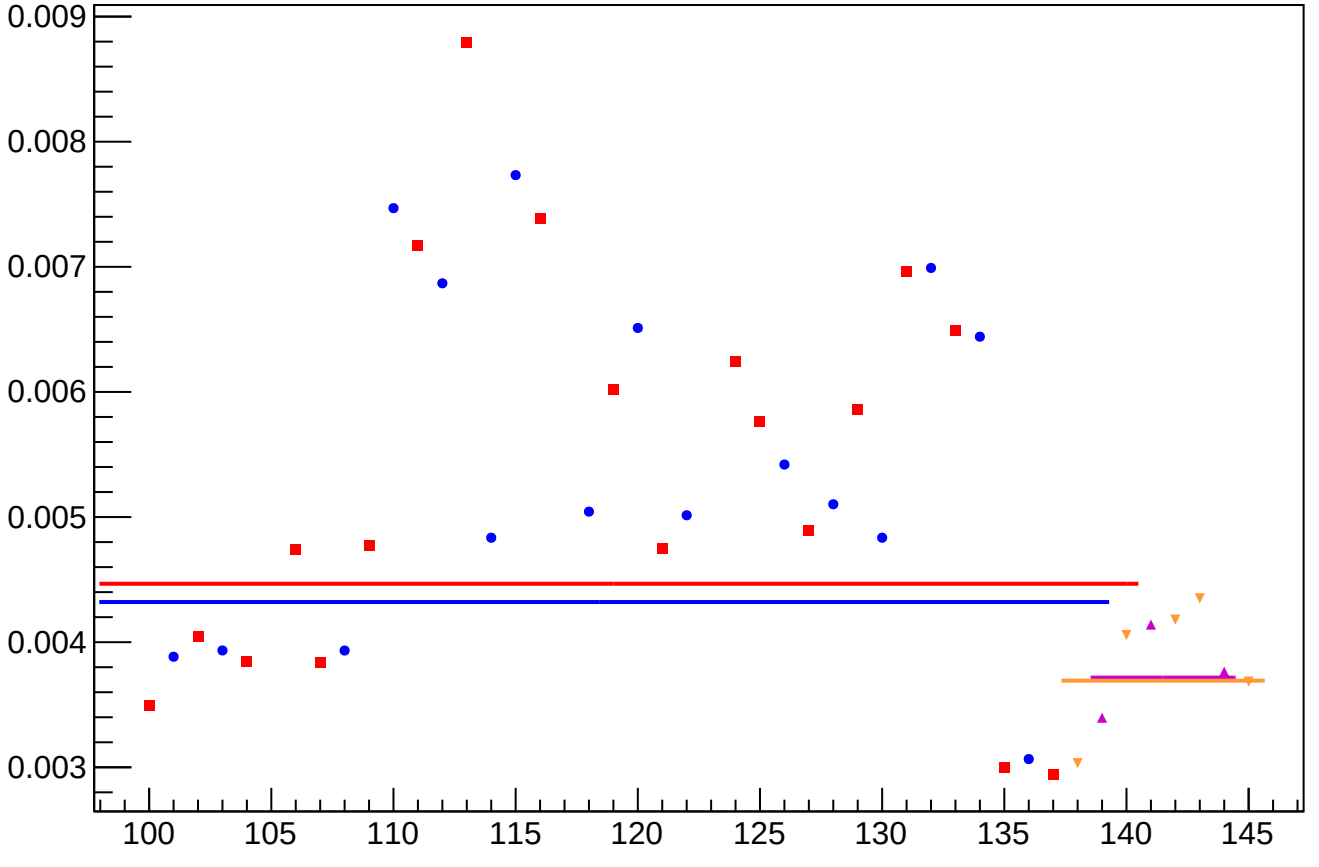
Right: 0.146+/-0.000 $\chi^2$/NDF: 14999065697.1/34

In: 0.156+/-0.000 $\chi^2$/NDF:9862926692.8/18

Out: 0.162+/-0.000 $\chi^2$/NDF:11213597661.3/23

All: 0.159+/-0.000 $\chi^2$/NDF: 21085218542.0/4

# yield_bpm0l09Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 878343.4/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:119175.4/4

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 1085759.3/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:29768.5/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 149060.0/7

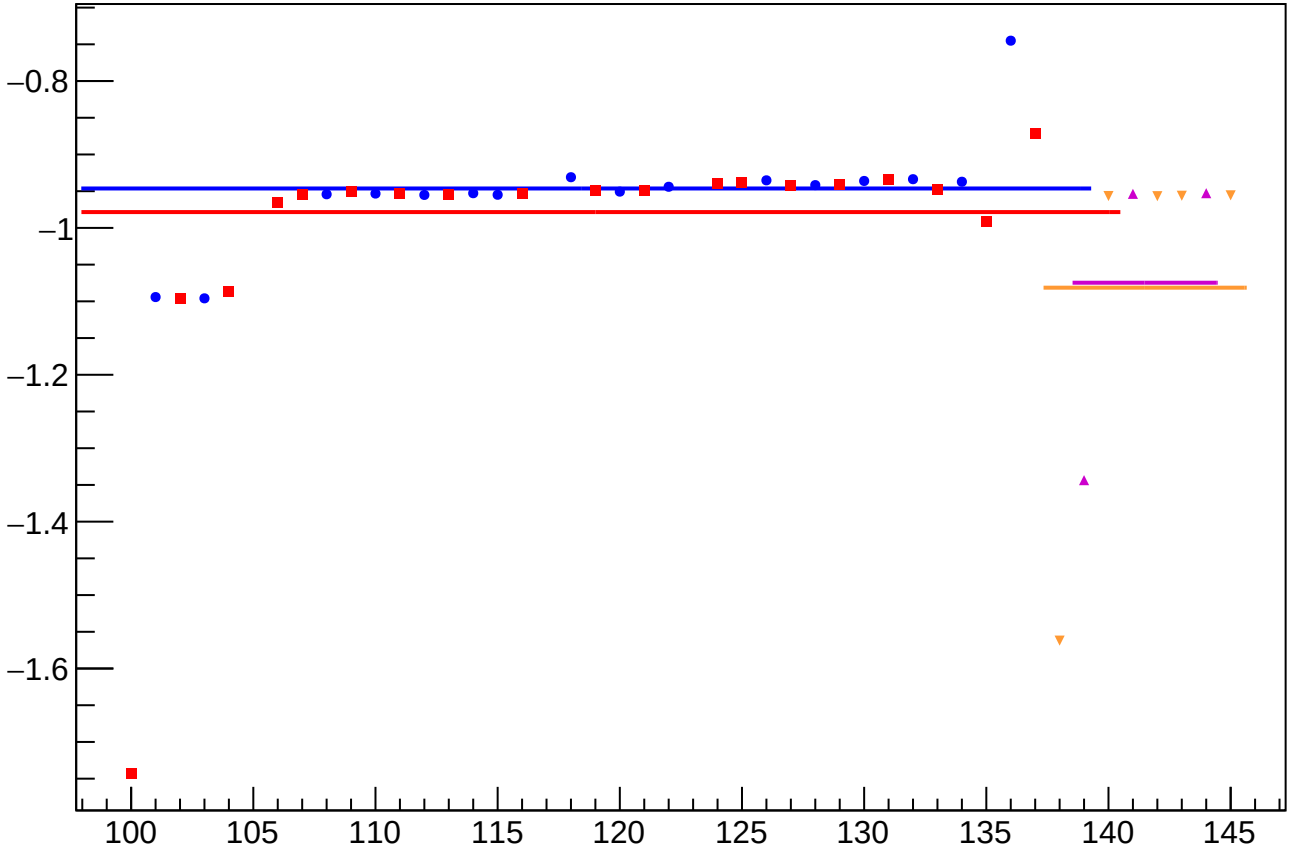
Right: 0.004+/-0.000 $\chi^2$/NDF: 1970552.0/34

In: 0.004+/-0.000 $\chi^2$/NDF:987477.3/18

Out: 0.004+/-0.000 $\chi^2$/NDF:1360835.9/23

All: 0.004+/-0.000 $\chi^2$/NDF: 2348556.4/42

# yield_bpm0l10X_mean vs Slug, Sign Corrected




Right In: -0.946+/-0.000 $\chi^2$/NDF: 404509465.5/15

Left Out: -1.081+/-0.000 $\chi^2$/NDF:1588576849.1/4

Right Out: -0.978+/-0.000 $\chi^2$/NDF: 461081476.3/18

Left In: -1.075+/-0.000 $\chi^2$/NDF:629912226.0/2

Left: -1.079+/-0.000 $\chi^2$/NDF: 2218997549.2/7

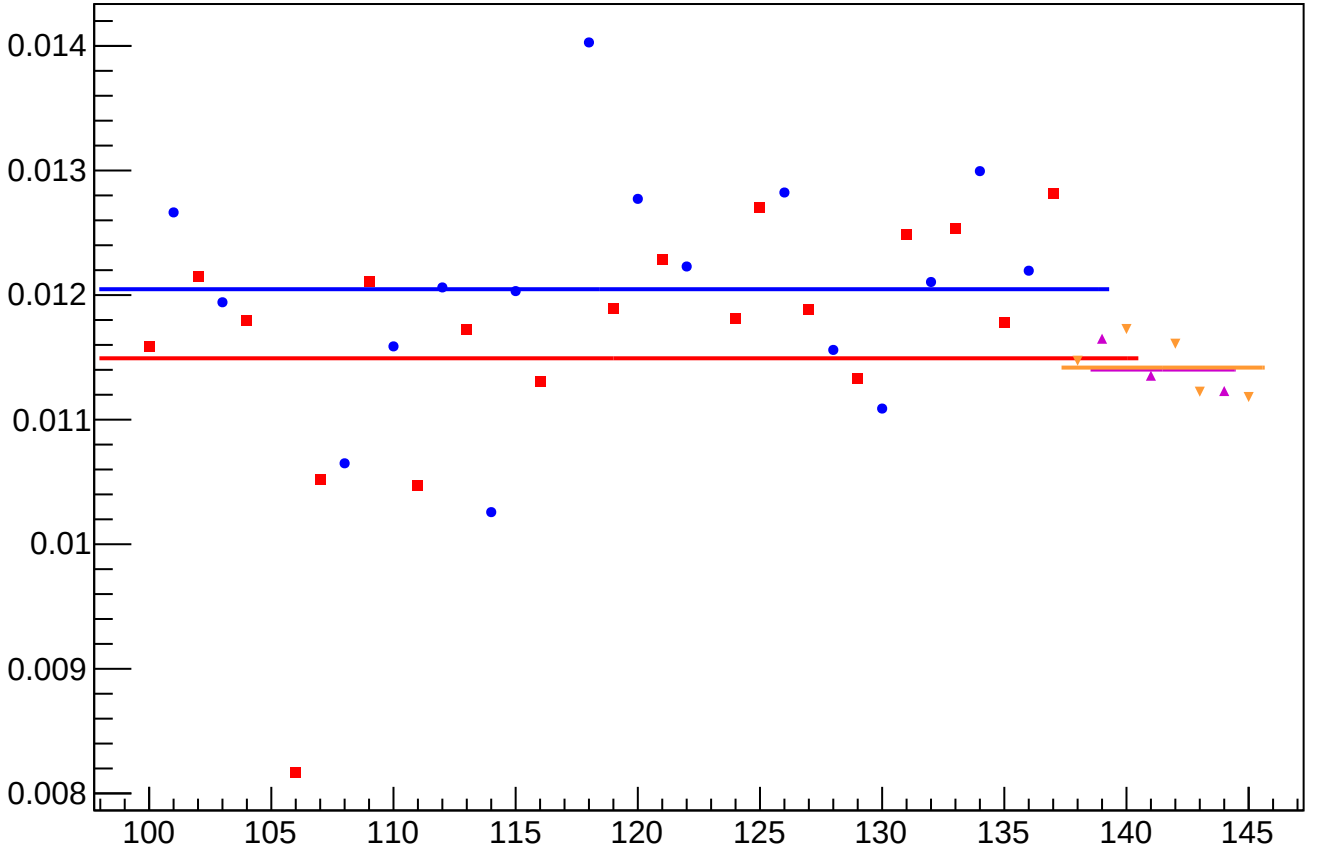
Right: -0.963+/-0.000 $\chi^2$/NDF: 891693396.9/34

In: -0.983+/-0.000 $\chi^2$/NDF:1260093442.9/18

Out: -1.012+/-0.000 $\chi^2$/NDF:2237866054.7/23

All: -0.999+/-0.000 $\chi^2$/NDF: 3528037698.4/4

# yield_bpm0l10X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 62476.3/15

Left Out: 0.011+/-0.000 $\chi^2$/NDF:2480.7/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 151309.4/18

Left In: 0.011+/-0.000 $\chi^2$/NDF:1170.1/2

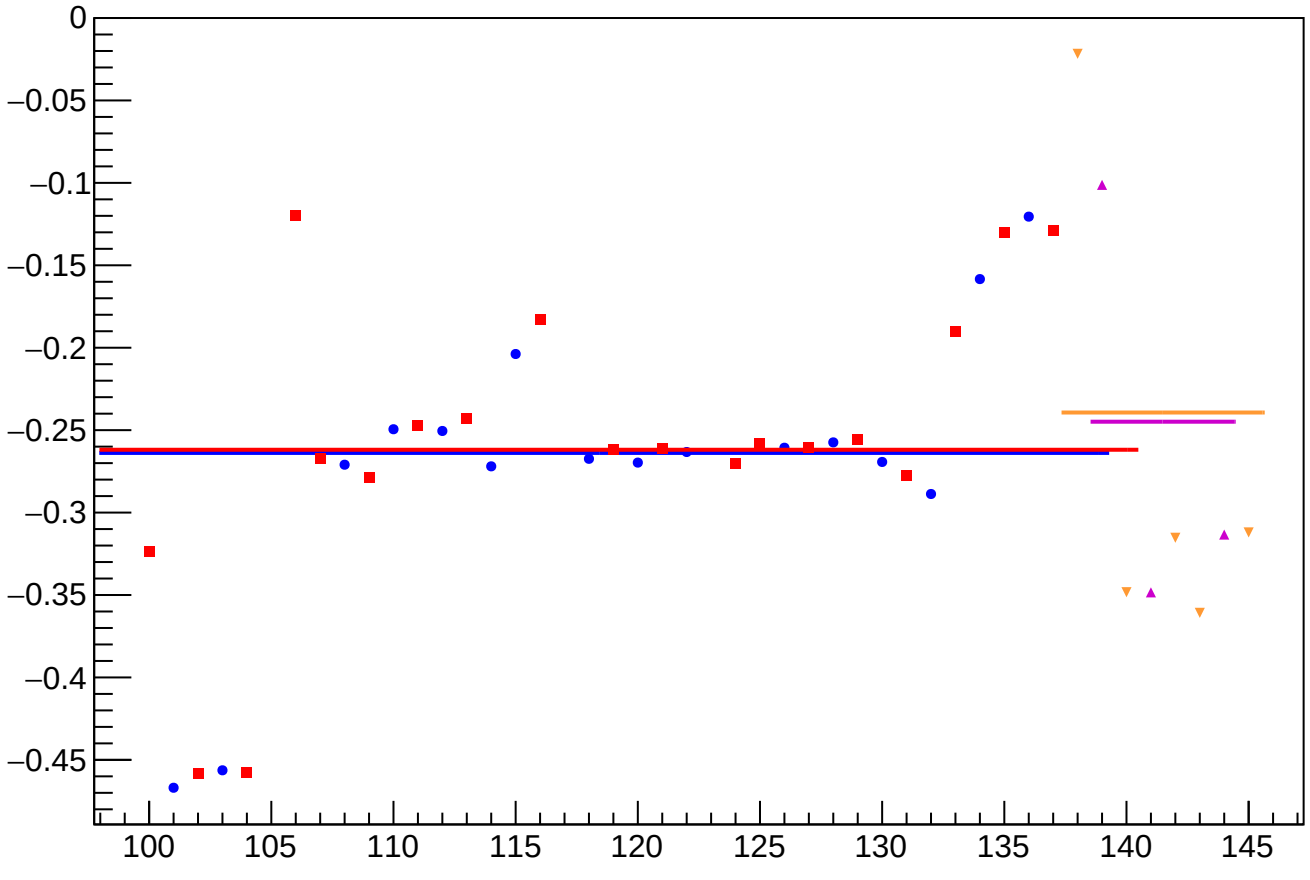
Left: 0.011+/-0.000 $\chi^2$/NDF: 3656.5/7

Right: 0.012+/-0.000 $\chi^2$/NDF: 229327.8/34

In: 0.012+/-0.000 $\chi^2$/NDF:75050.2/18

Out: 0.011+/-0.000 $\chi^2$/NDF:153987.9/23

All: 0.012+/-0.000 $\chi^2$/NDF: 240263.6/42




Right In: -0.264+/-0.000 $\chi^2$/NDF: 6106171444.3/15

Left Out: -0.239+/-0.000 $\chi^2$/NDF:3759039780.9/4

Right Out: -0.262+/-0.000 $\chi^2$/NDF: 5250043427.3/18

Left In: -0.245+/-0.000 $\chi^2$/NDF:1606951053.1/2

Left: -0.242+/-0.000 $\chi^2$/NDF: 5368366145.1/7

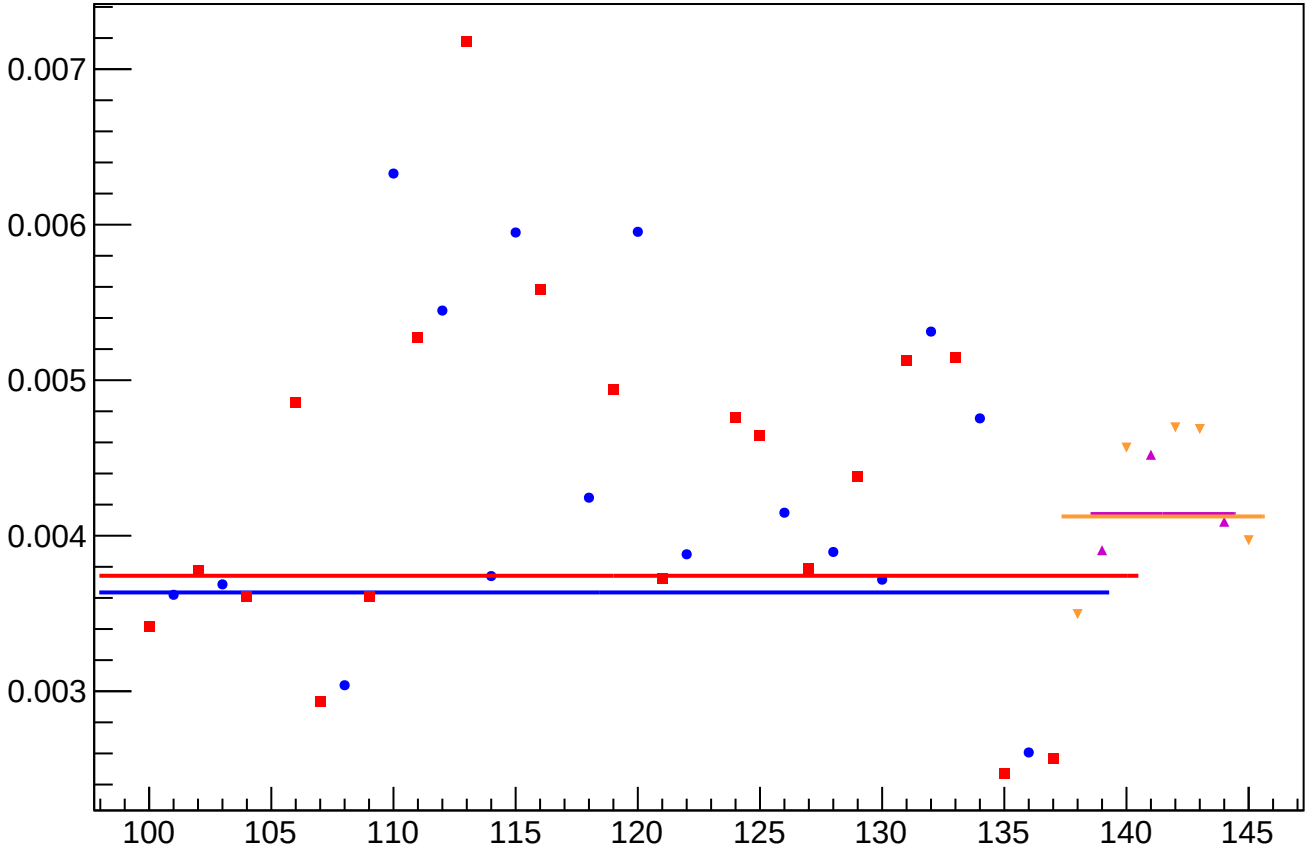
Right: -0.263+/-0.000 $\chi^2$/NDF: 11357011784.3/34

In: -0.259+/-0.000 $\chi^2$/NDF:7749444634.8/18

Out: -0.255+/-0.000 $\chi^2$/NDF:9074117414.2/23

All: -0.257+/-0.000 $\chi^2$/NDF: 16828806868.0/

# yield_bpm0l10Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 728598.9/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:88751.7/4

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 894189.4/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:15838.6/2

Left: 0.004+/-0.000 $\chi^2$/NDF: 104626.7/7

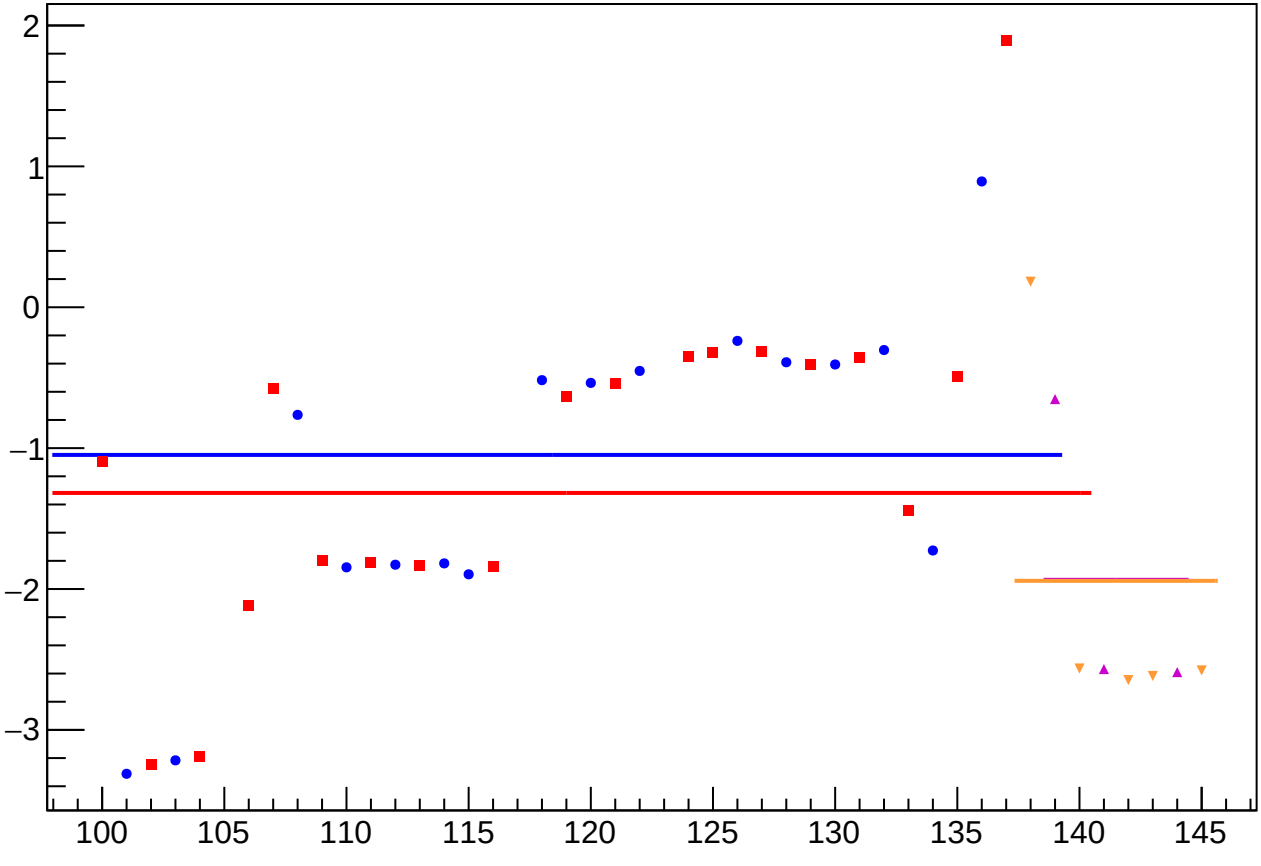
Right: 0.004+/-0.000 $\chi^2$/NDF: 1627770.5/34

In: 0.004+/-0.000 $\chi^2$/NDF:795922.6/18

Out: 0.004+/-0.000 $\chi^2$/NDF:1019999.5/23

All: 0.004+/-0.000 $\chi^2$/NDF: 1822205.6/42

# yield_bpm0r03X_mean vs Slug, Sign Corrected




Right In: -1.048+/-0.000 $\chi^2$/NDF: 2347020985.5/15

Left Out: -1.942+/-0.000 $\chi^2$/NDF:887814543.6/4

Right Out: -1.318+/-0.000 $\chi^2$/NDF: 1847995615.1/18

Left In: -1.935+/-0.000 $\chi^2$/NDF:384953808.3/2

Left: -1.939+/-0.000 $\chi^2$/NDF: 1272782661.6/7

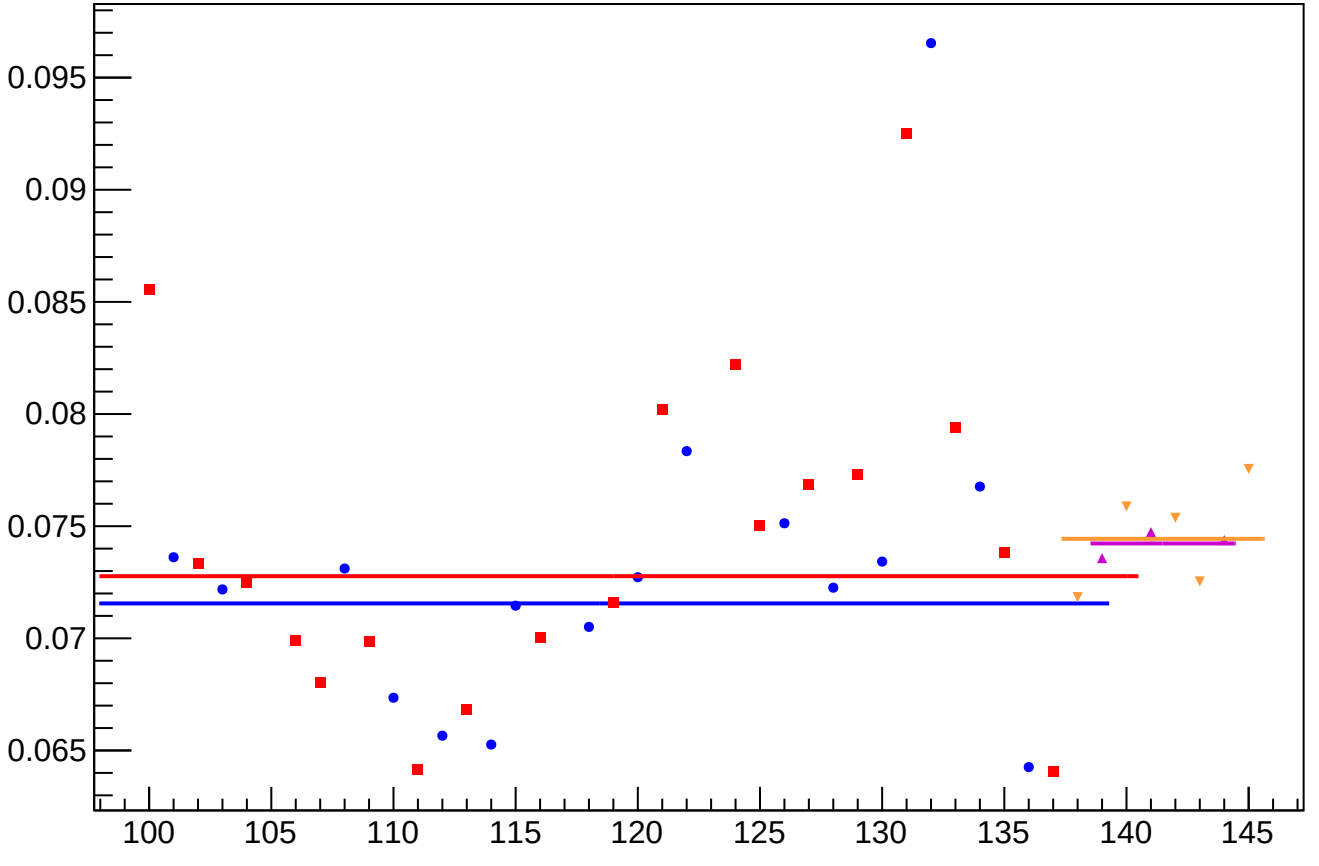
Right: -1.183+/-0.000 $\chi^2$/NDF: 4244956360.2/34

In: -1.273+/-0.000 $\chi^2$/NDF:3005005033.1/18

Out: -1.516+/-0.000 $\chi^2$/NDF:2905413361.0/23

All: -1.400+/-0.000 $\chi^2$/NDF: 5967178325.8/4

# yield_bpm0r03X_rms vs Slug, Sign Corrected




Right In: 0.072+/-0.000 $\chi^2$/NDF: 101238.7/15

Left Out: 0.074+/-0.000 $\chi^2$/NDF:6324.4/4

Right Out: 0.073+/-0.000 $\chi^2$/NDF: 96874.2/18

Left In: 0.074+/-0.000 $\chi^2$/NDF:218.0/2

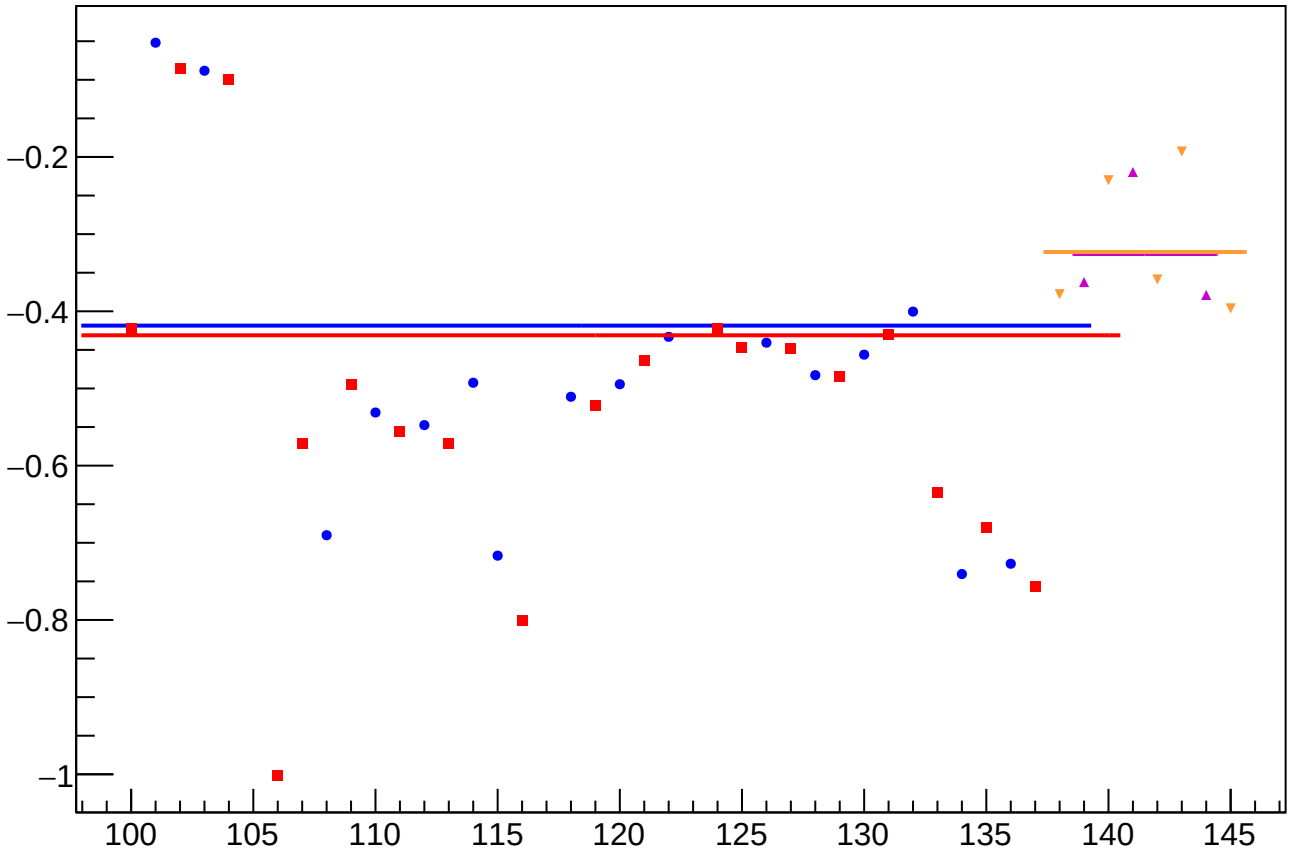
Left: 0.074+/-0.000 $\chi^2$/NDF: 6565.5/7

Right: 0.072+/-0.000 $\chi^2$/NDF: 200129.9/34

In: 0.072+/-0.000 $\chi^2$/NDF:106422.7/18

Out: 0.073+/-0.000 $\chi^2$/NDF:105622.0/23

All: 0.073+/-0.000 $\chi^2$/NDF: 214219.3/42




Right In: -0.419+/-0.000 $\chi^2$/NDF: 3072147227.9/15

Left Out: -0.323+/-0.000 $\chi^2$/NDF:279390842.5/4

Right Out: -0.431+/-0.000 $\chi^2$/NDF: 3196655095.4/18

Left In: -0.326+/-0.000 $\chi^2$/NDF:150262537.5/2

Left: -0.324+/-0.000 $\chi^2$/NDF: 429784260.0/7

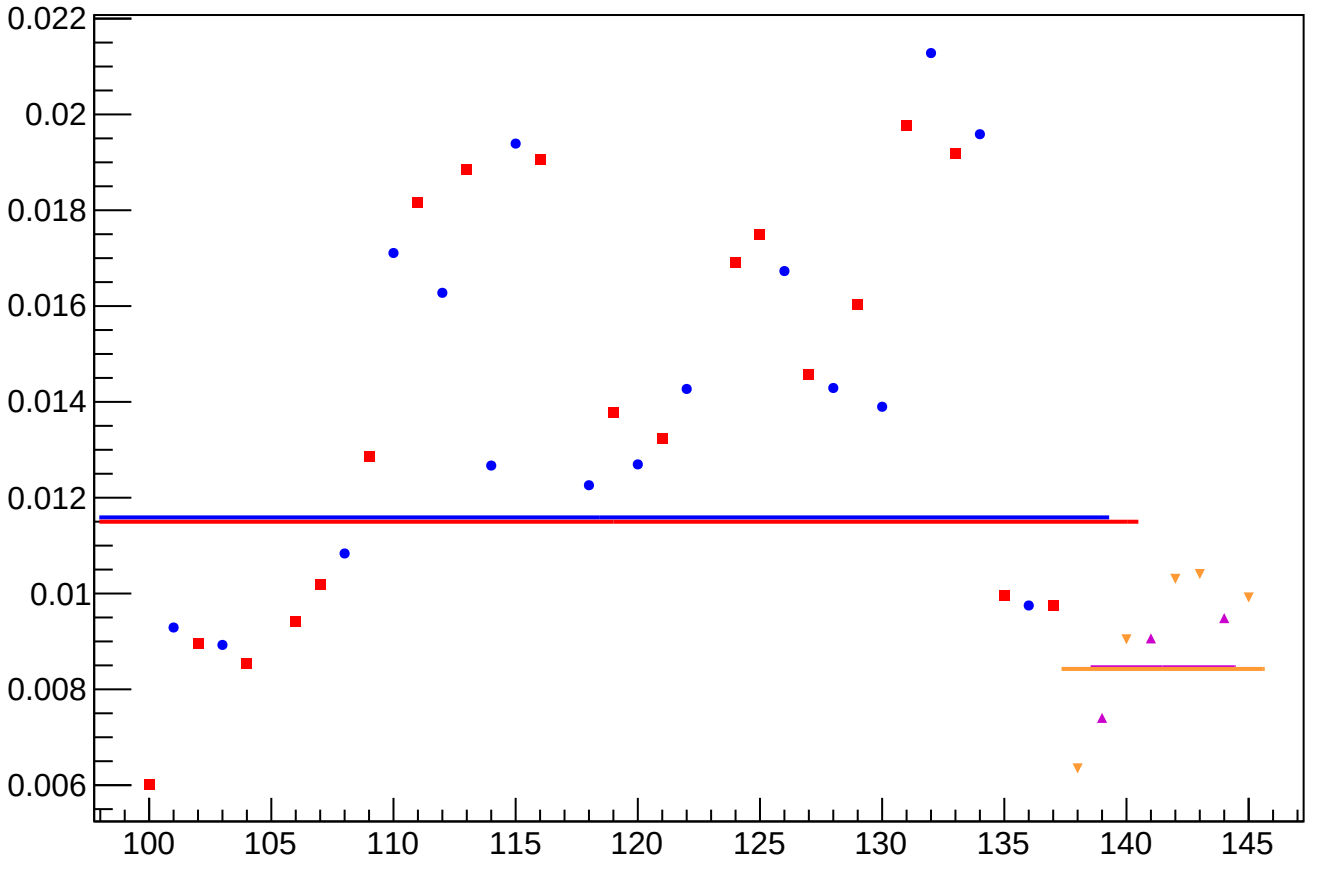
Right: -0.425+/-0.000 $\chi^2$/NDF: 6272338159.2/34

In: -0.379+/-0.000 $\chi^2$/NDF:3384349640.6/18

Out: -0.378+/-0.000 $\chi^2$/NDF:3735758722.8/23

All: -0.379+/-0.000 $\chi^2$/NDF: 7120155389.5/4

# yield_bpm0r03Y_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 786260.7/15

Left Out: 0.008+/-0.000 $\chi^2$/NDF:267102.9/4

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 1164657.0/18

Left In: 0.008+/-0.000 $\chi^2$/NDF:57603.7/2

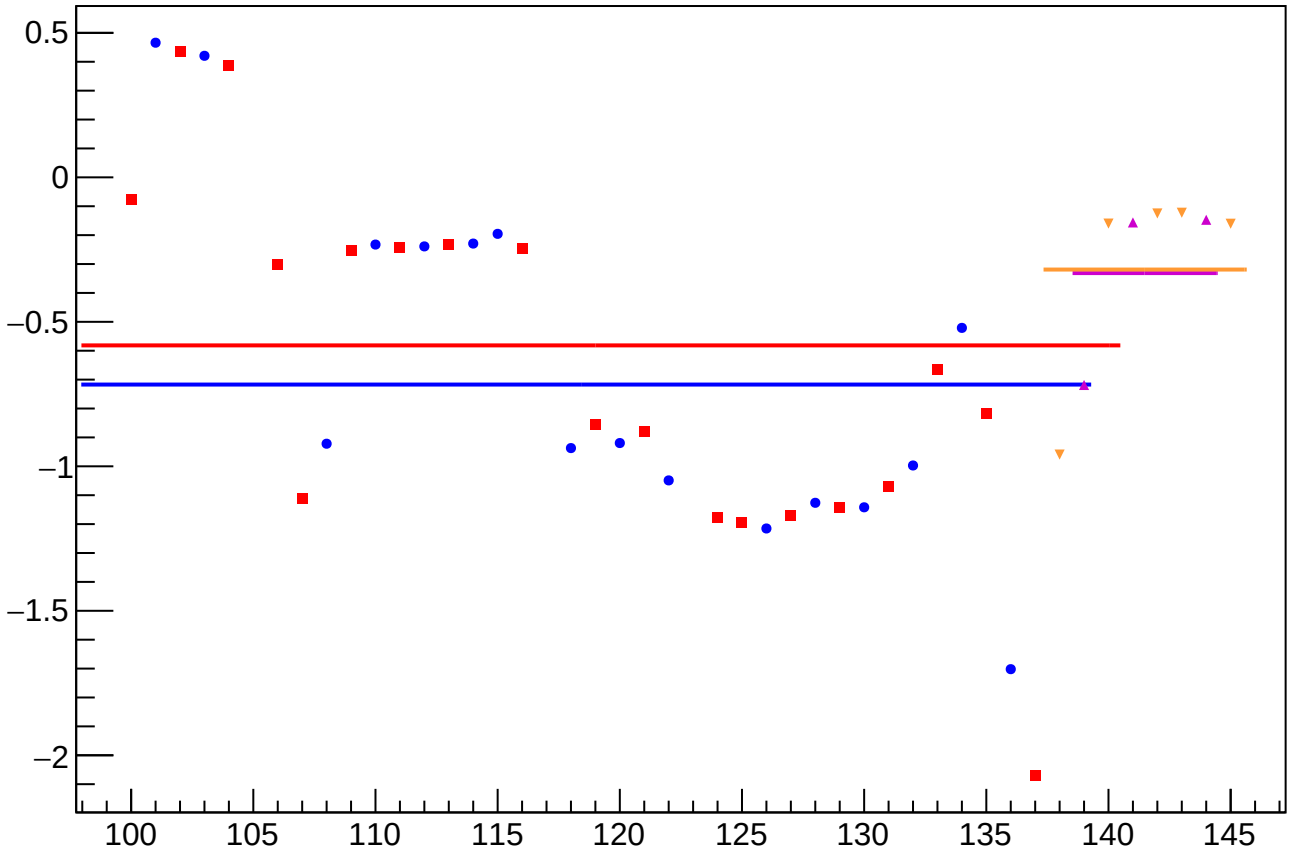
Left: 0.008+/-0.000 $\chi^2$/NDF: 324751.7/7

Right: 0.012+/-0.000 $\chi^2$/NDF: 1951282.6/34

In: 0.010+/-0.000 $\chi^2$/NDF:1212014.8/18

Out: 0.010+/-0.000 $\chi^2$/NDF:1852381.6/23

All: 0.010+/-0.000 $\chi^2$/NDF: 3070458.7/42




Right In: -0.717+/-0.000 $\chi^2$/NDF: 437423792.4/15

Left Out: -0.319+/-0.000 $\chi^2$/NDF:59503824.2/4

Right Out: -0.582+/-0.000 $\chi^2$/NDF: 342062039.8/18

Left In: -0.331+/-0.000 $\chi^2$/NDF:26682732.3/2

Left: -0.324+/-0.000 $\chi^2$/NDF: 86219591.3/7

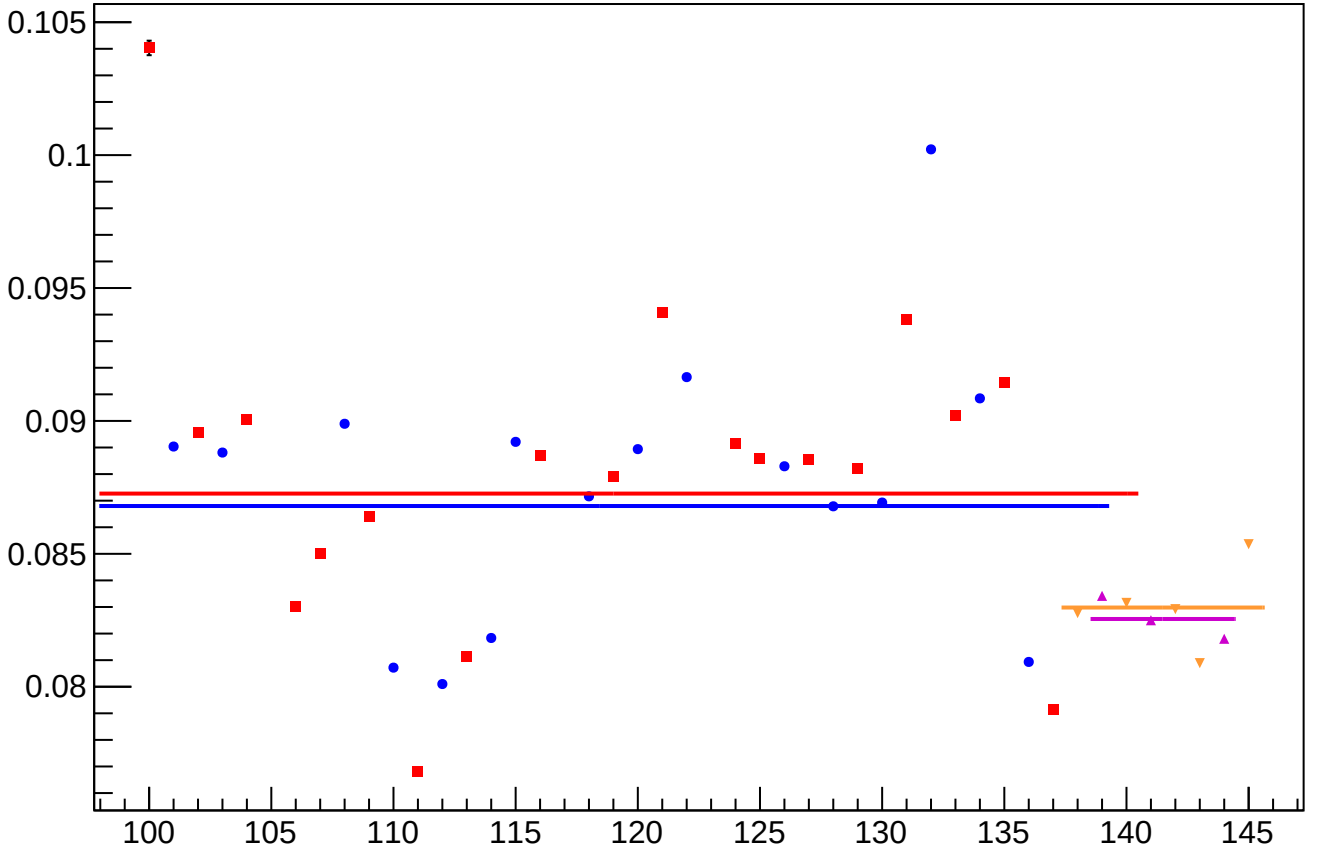
Right: -0.648+/-0.000 $\chi^2$/NDF: 788347373.4/34

In: -0.606+/-0.000 $\chi^2$/NDF:504735550.4/18

Out: -0.489+/-0.000 $\chi^2$/NDF:425192656.1/23

All: -0.544+/-0.000 $\chi^2$/NDF: 939621961.7/42

# 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:2340.9/4

Right Out: 0.087+/-0.000 $\chi^2$/NDF: 46163.9/18

Left In: 0.083+/-0.000 $\chi^2$/NDF:332.9/2

Left: 0.083+/-0.000 $\chi^2$/NDF: 2756.3/7

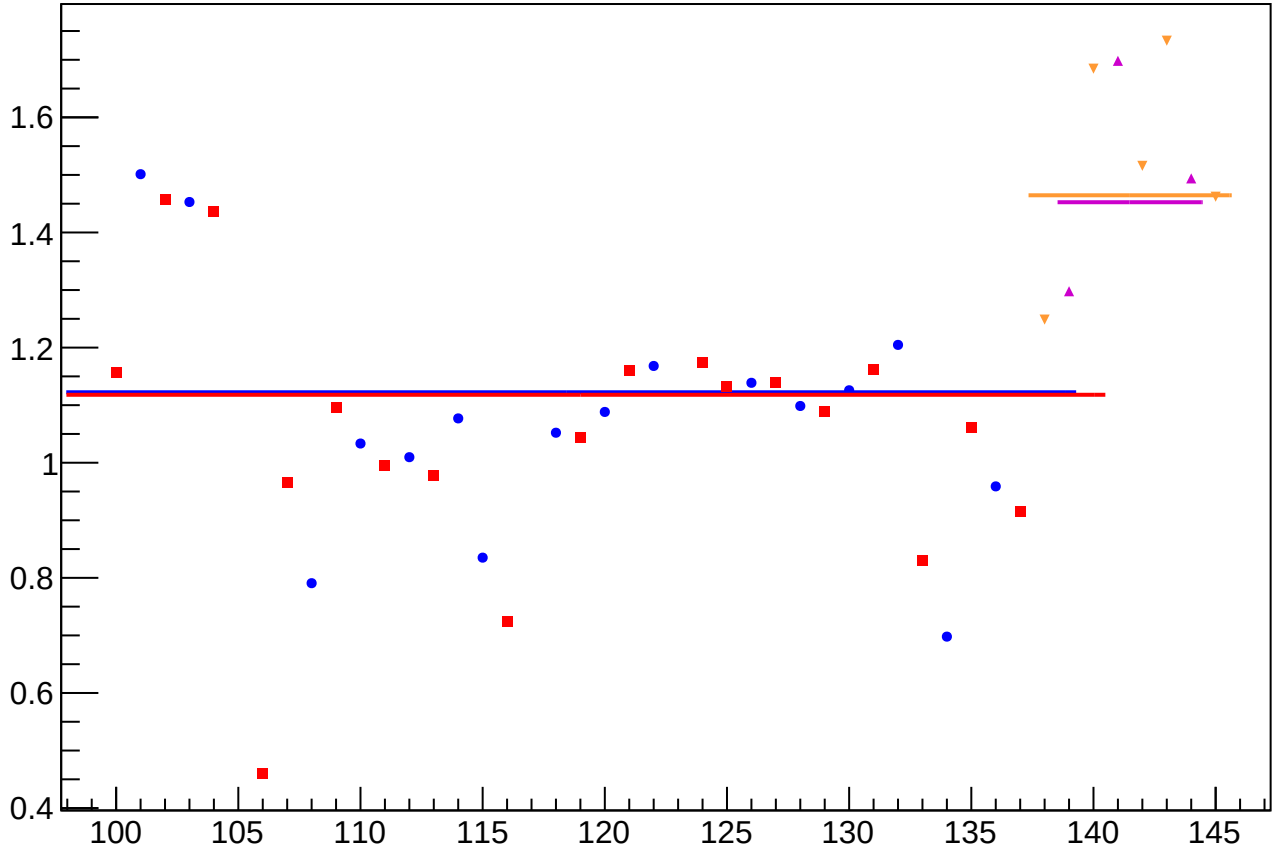
Right: 0.087+/-0.000 $\chi^2$/NDF: 89950.5/34

In: 0.086+/-0.000 $\chi^2$/NDF:53769.6/18

Out: 0.086+/-0.000 $\chi^2$/NDF:61113.3/23

All: 0.086+/-0.000 $\chi^2$/NDF: 114929.5/42

# yield_bpm0r05Y_mean vs Slug, Sign Corrected




Right In: 1.122+/-0.000 $\chi^2$/NDF: 1454303379.1/15

Left Out: 1.465+/-0.000 $\chi^2$/NDF:1225797003.9/4

Right Out: 1.118+/-0.000 $\chi^2$/NDF: 1570269350.9/18

Left In: 1.453+/-0.000 $\chi^2$/NDF:645840384.0/2

Left: 1.459+/-0.000 $\chi^2$/NDF: 1873588071.7/7

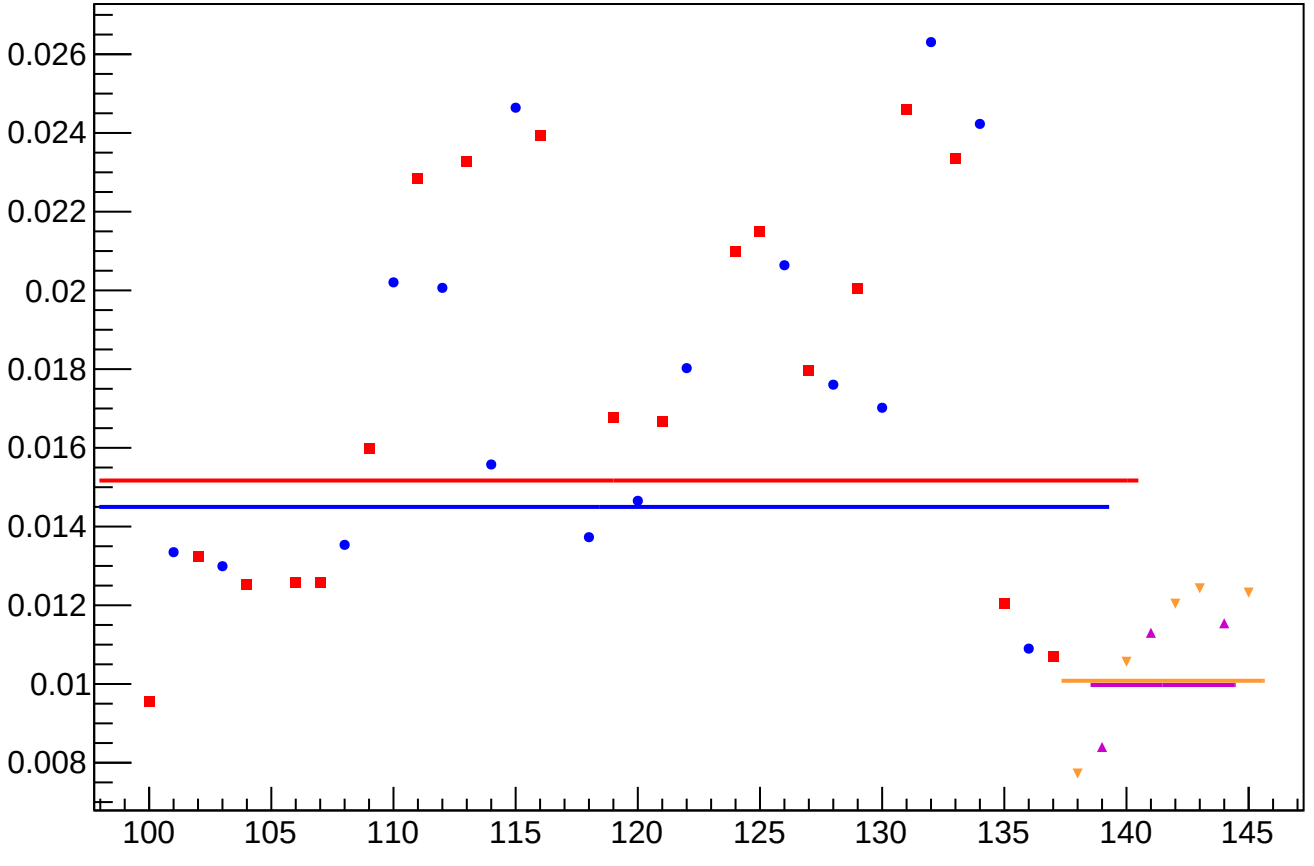
Right: 1.120+/-0.000 $\chi^2$/NDF: 3024831149.0/34

In: 1.272+/-0.000 $\chi^2$/NDF:3503412356.3/18

Out: 1.305+/-0.000 $\chi^2$/NDF:4519045410.5/23

All: 1.289+/-0.000 $\chi^2$/NDF: 8051379826.3/42

# yield_bpm0r05Y_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 710345.3/15

Left Out: 0.010+/-0.000 $\chi^2$/NDF:262126.8/4

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 864637.6/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:107804.4/2

Left: 0.010+/-0.000 $\chi^2$/NDF: 370239.4/7

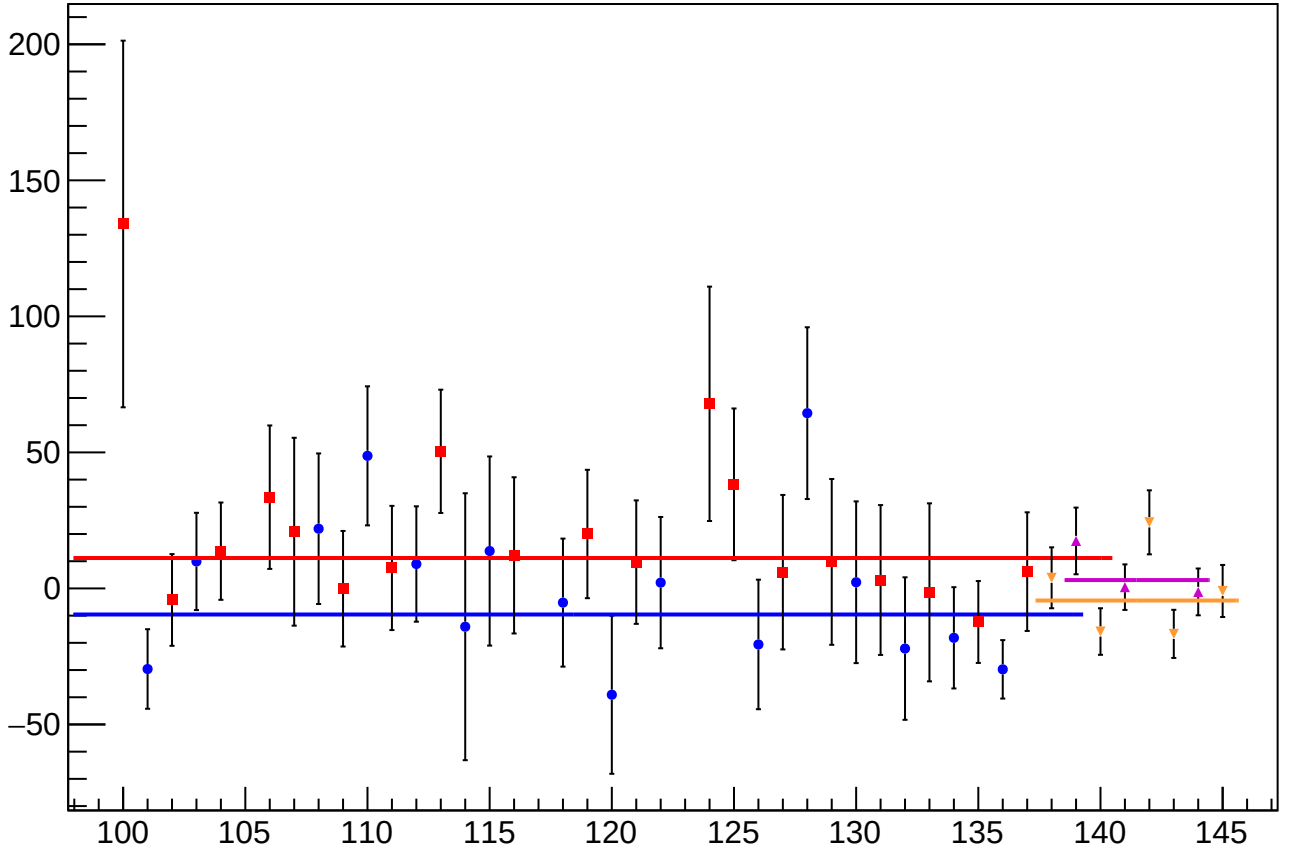
Right: 0.015+/-0.000 $\chi^2$/NDF: 1587355.3/34

In: 0.012+/-0.000 $\chi^2$/NDF:1345092.9/18

Out: 0.012+/-0.000 $\chi^2$/NDF:1869338.0/23

All: 0.012+/-0.000 $\chi^2$/NDF: 3214446.0/42

# diff_bpm4aX_mean vs Slug, Sign Corrected




Right In: -9.581+/-5.291 $\chi^2$/NDF: 21.9/15

Left Out: -4.443+/-4.363 $\chi^2$/NDF:10.4/4

Right Out: 11.177+/-5.497 $\chi^2$/NDF: 13.9/18

Left In: 3.069+/-5.388 $\chi^2$/NDF:1.7/2

Left: -1.468+/-3.391 $\chi^2$/NDF: 13.3/7

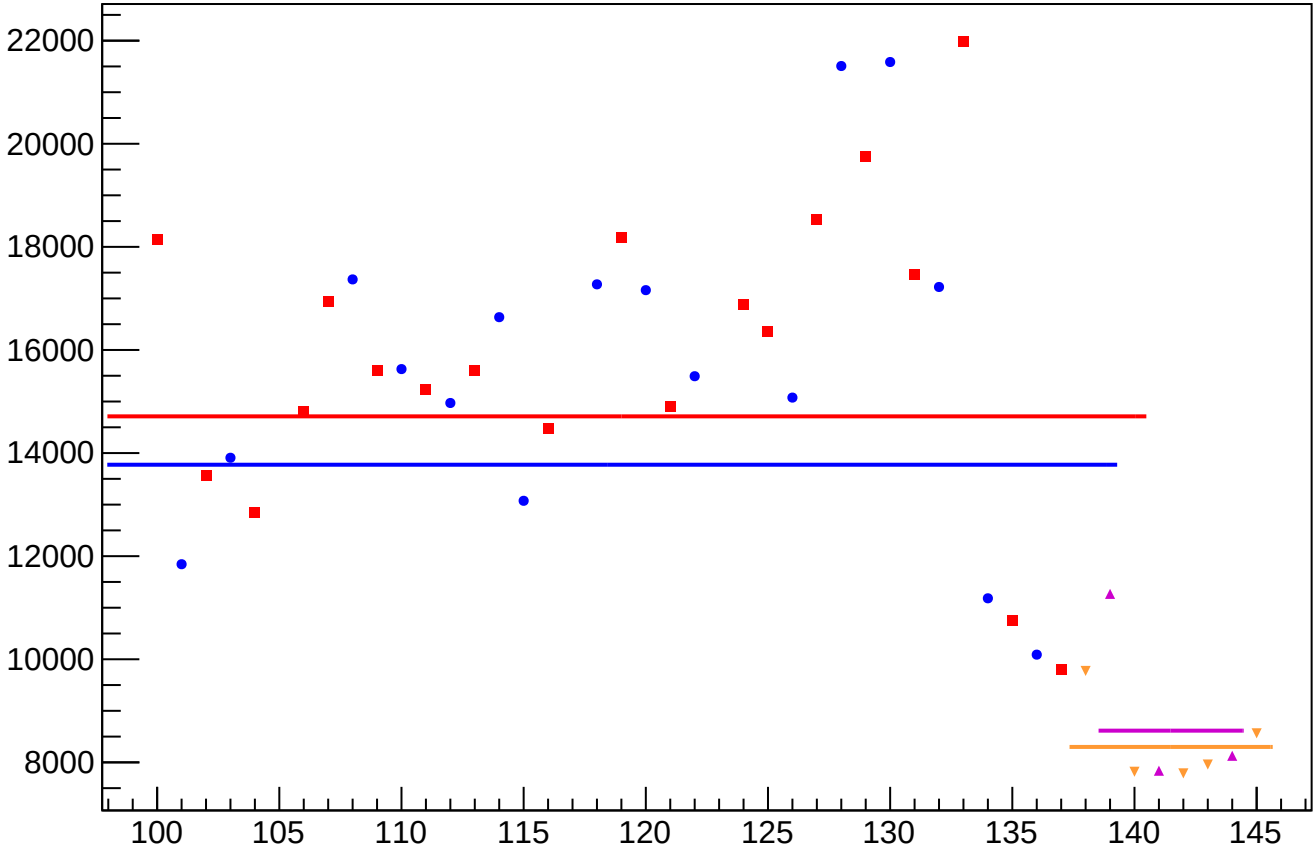
Right: 0.401+/-3.812 $\chi^2$/NDF: 43.2/34

In: -3.372+/-3.775 $\chi^2$/NDF:26.5/18

Out: 1.594+/-3.417 $\chi^2$/NDF:29.2/23

All: -0.643+/-2.533 $\chi^2$/NDF: 56.6/42

# diff_bpm4aX_rms vs Slug, Sign Corrected




Right In: 13773.886+/-3.741 $\chi^2$/NDF: 747586.2/15

Left Out: 8299.435+/-3.085 $\chi^2$/NDF:49278.9/4

Right Out: 14712.201+/-3.887 $\chi^2$/NDF: 557305.5/18

Left In: 8615.323+/-3.810 $\chi^2$/NDF:117460.8/2

Left: 8424.532+/-2.398 $\chi^2$/NDF: 170891.8/7

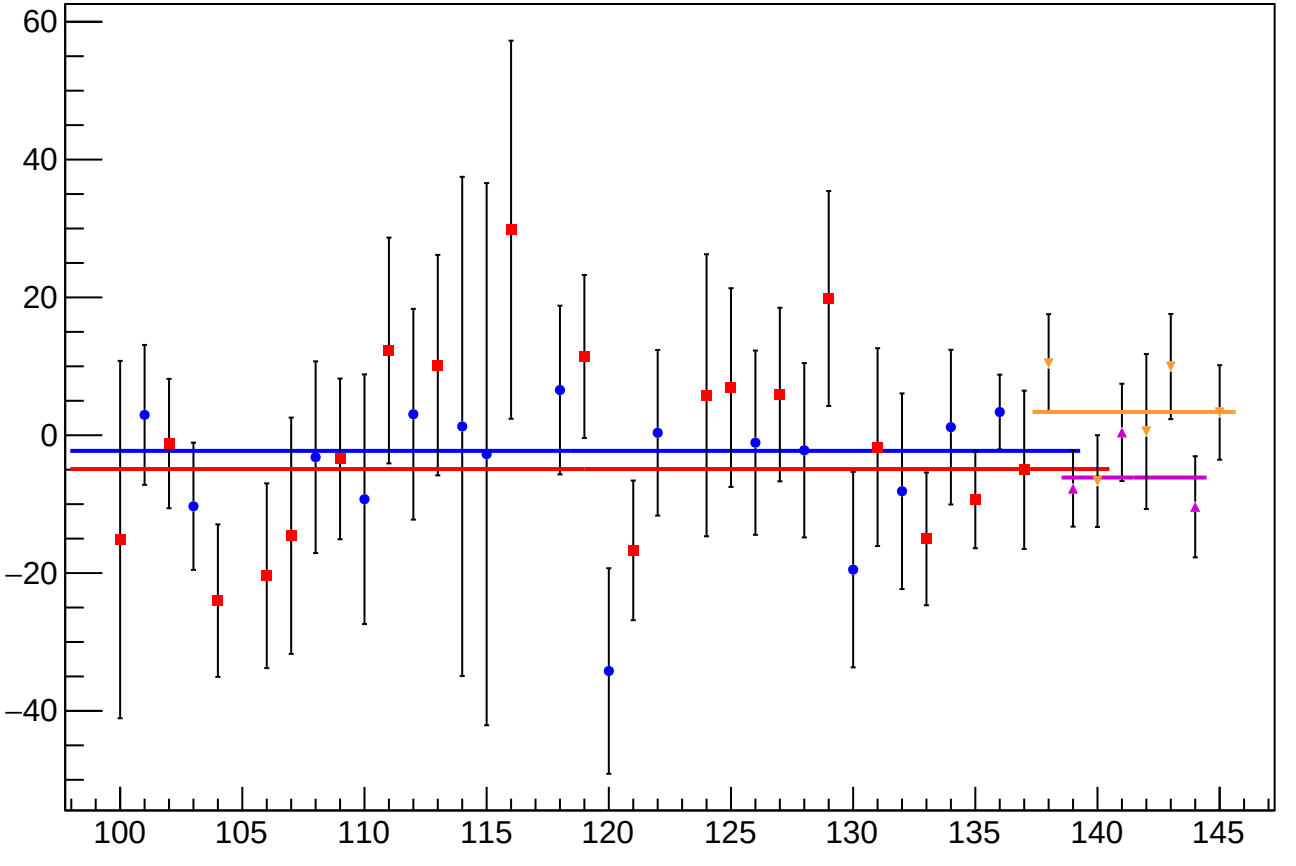
Right: 14225.090+/-2.695 $\chi^2$/NDF: 1335141.9/34

In: 11241.624+/-2.669 $\chi^2$/NDF:1798394.8/18

Out: 10777.736+/-2.416 $\chi^2$/NDF:2276456.9/23

All: 10986.670+/-1.791 $\chi^2$/NDF: 4091450.1/4

# diff_bpm4aY_mean vs Slug, Sign Corrected




Right In: -2.267+/-2.922 $\chi^2$/NDF: 9.3/15

Left Out: 3.377+/-3.363 $\chi^2$/NDF:4.0/4

Right Out: -4.904+/-2.836 $\chi^2$/NDF: 17.6/18

Left In: -6.138+/-3.741 $\chi^2$/NDF:1.3/2

Left: -0.875+/-2.501 $\chi^2$/NDF: 8.9/7

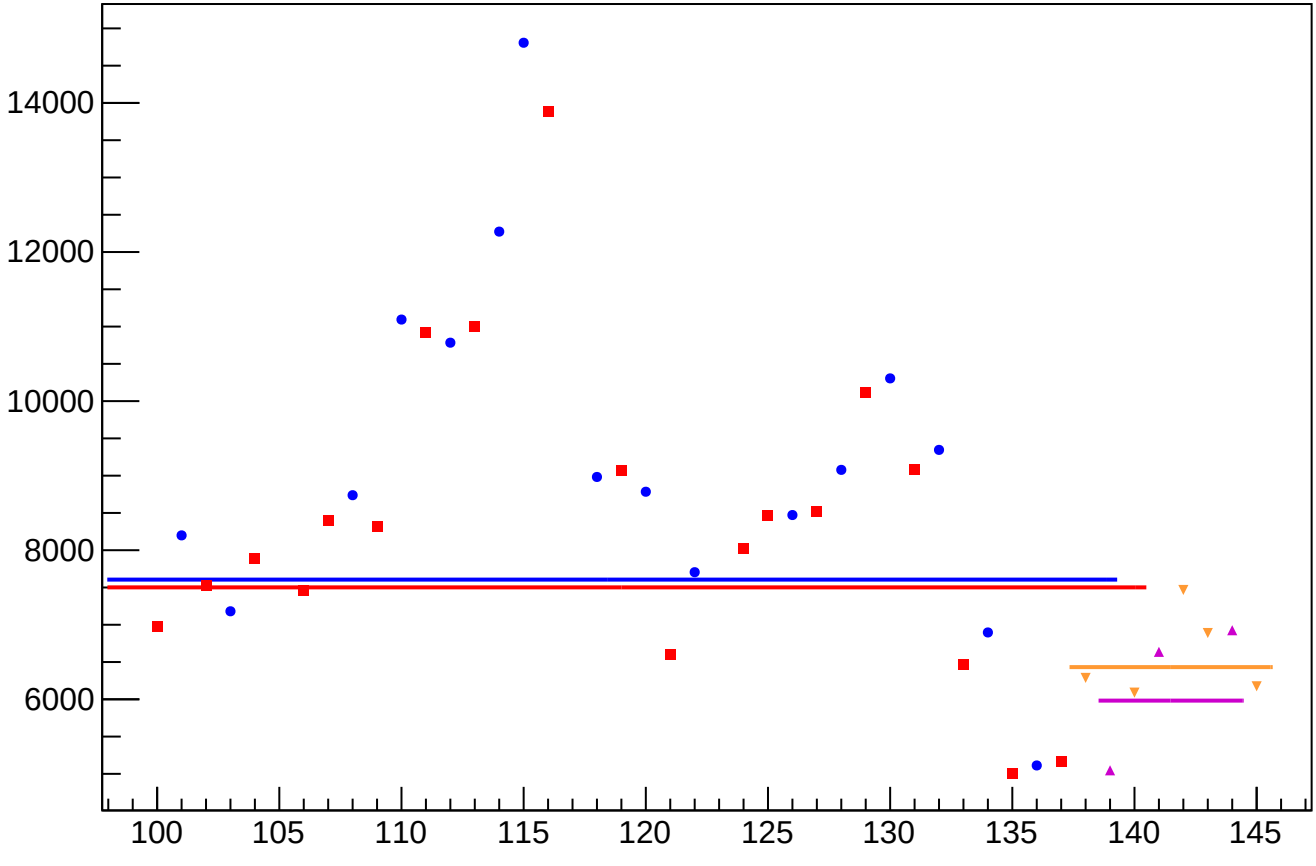
Right: -3.625+/-2.035 $\chi^2$/NDF: 27.3/34

In: -3.734+/-2.303 $\chi^2$/NDF:11.2/18

Out: -1.463+/-2.168 $\chi^2$/NDF:25.2/23

All: -2.530+/-1.579 $\chi^2$/NDF: 36.9/42

# diff_bpm4aY_rms vs Slug, Sign Corrected




Right In: 7605.700+/-2.066 $\chi^2$/NDF: 891494.3/15

Left Out: 6431.833+/-2.378 $\chi^2$/NDF:33035.0/4

Right Out: 7501.522+/-2.005 $\chi^2$/NDF: 823557.5/18

Left In: 5982.418+/-2.645 $\chi^2$/NDF:107642.8/2

Left: 6230.982+/-1.769 $\chi^2$/NDF: 156639.2/7

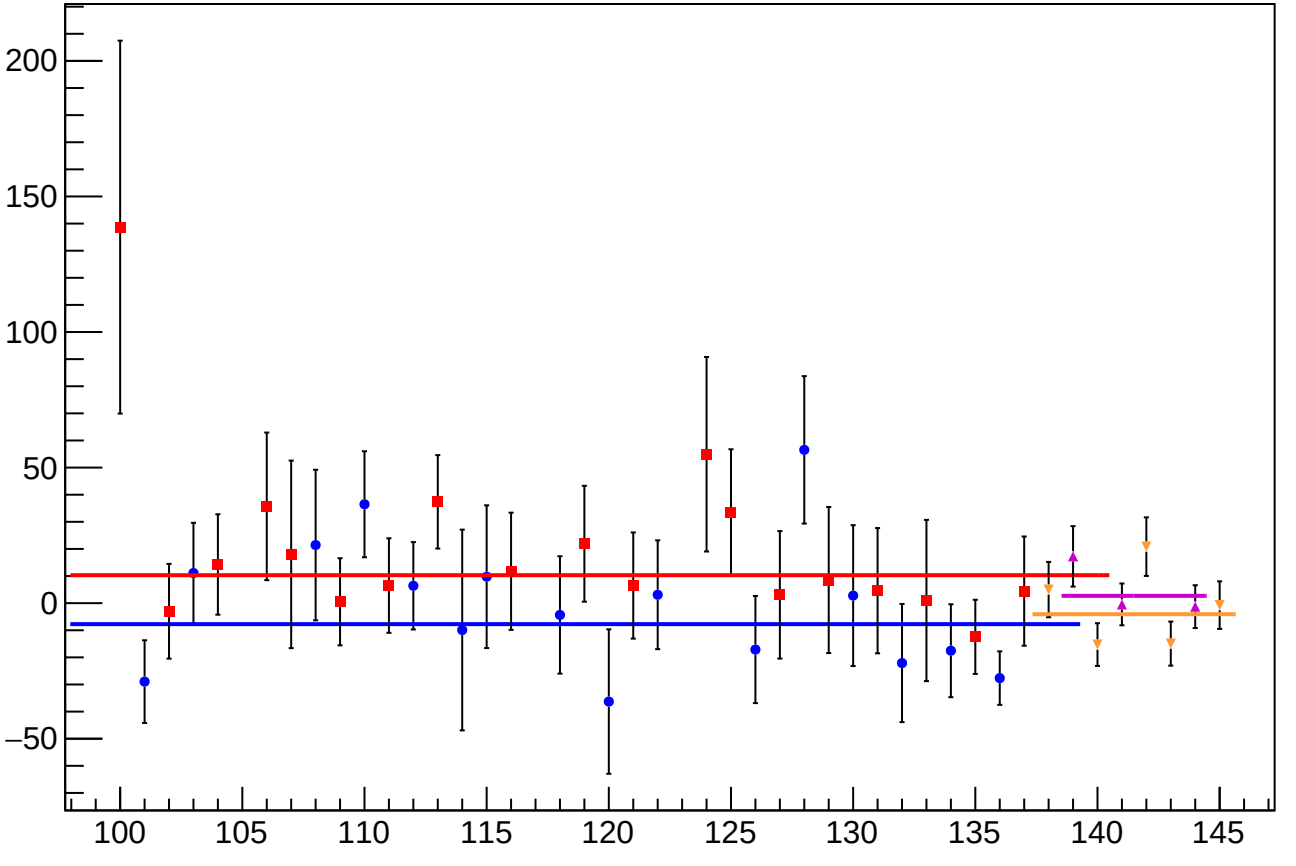
Right: 7552.053+/-1.439 $\chi^2$/NDF: 1716360.9/34

In: 6990.668+/-1.628 $\chi^2$/NDF:1232993.3/18

Out: 7056.990+/-1.533 $\chi^2$/NDF:974841.7/23

All: 7025.828+/-1.116 $\chi^2$/NDF: 2208714.5/42

# diff_bpm4eX_mean vs Slug, Sign Corrected




Right In: -7.741+/-4.748 $\chi^2$/NDF: 22.7/15

Left Out: -4.080+/-4.003 $\chi^2$/NDF:10.1/4

Right Out: 10.307+/-4.840 $\chi^2$/NDF: 13.9/18

Left In: 2.702+/-4.944 $\chi^2$/NDF:2.1/2

Left: -1.395+/-3.111 $\chi^2$/NDF: 13.3/7

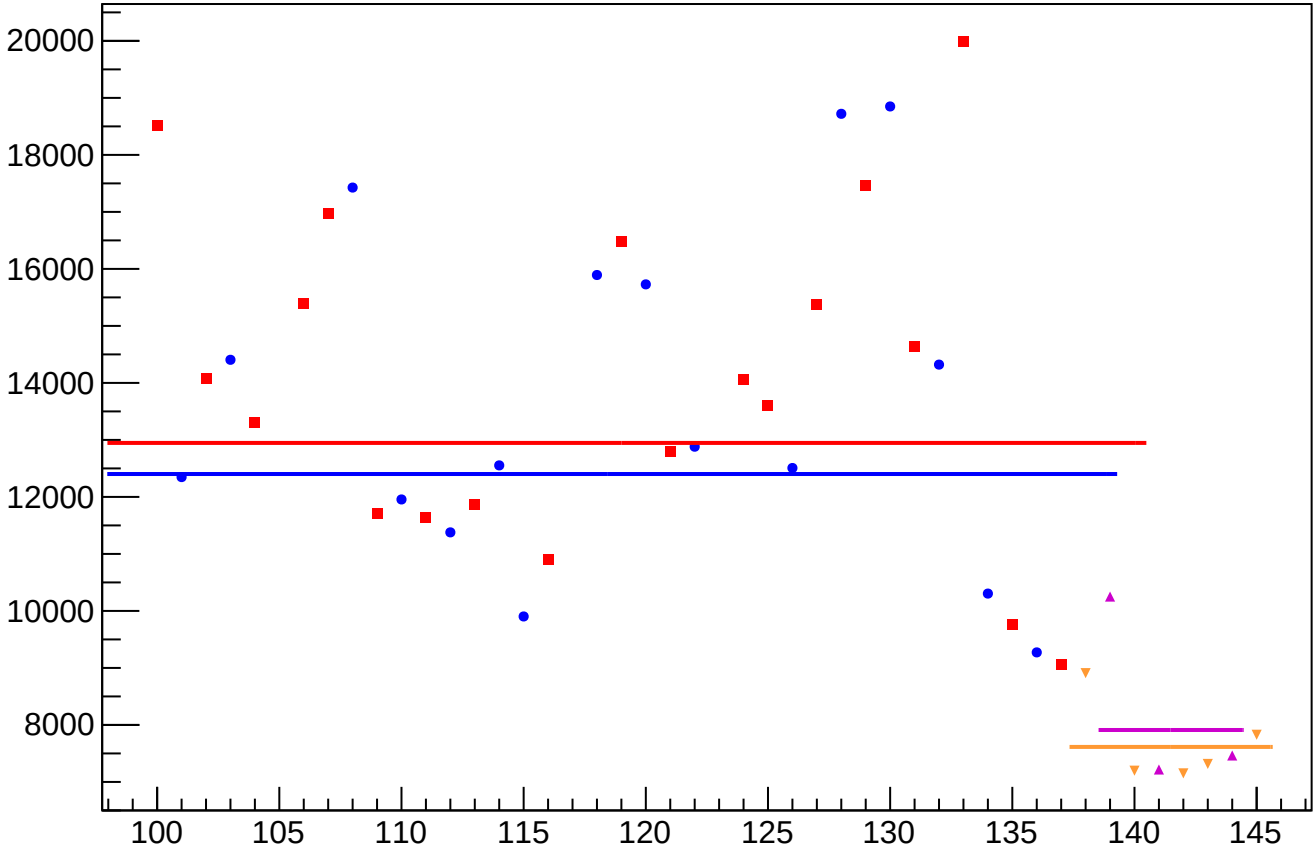
Right: 1.111+/-3.389 $\chi^2$/NDF: 43.7/34

In: -2.731+/-3.425 $\chi^2$/NDF:27.1/18

Out: 1.765+/-3.085 $\chi^2$/NDF:29.2/23

All: -0.249+/-2.292 $\chi^2$/NDF: 57.3/42

# diff_bpm4eX_rms vs Slug, Sign Corrected




Right In: 12401.769+/-3.357 $\chi^2$/NDF: 678310.8/15

Left Out: 7614.263+/-2.831 $\chi^2$/NDF:45334.7/4

Right Out: 12947.255+/-3.422 $\chi^2$/NDF: 555198.3/18

Left In: 7911.335+/-3.496 $\chi^2$/NDF:110767.3/2

Left: 7731.892+/-2.200 $\chi^2$/NDF: 160463.1/7

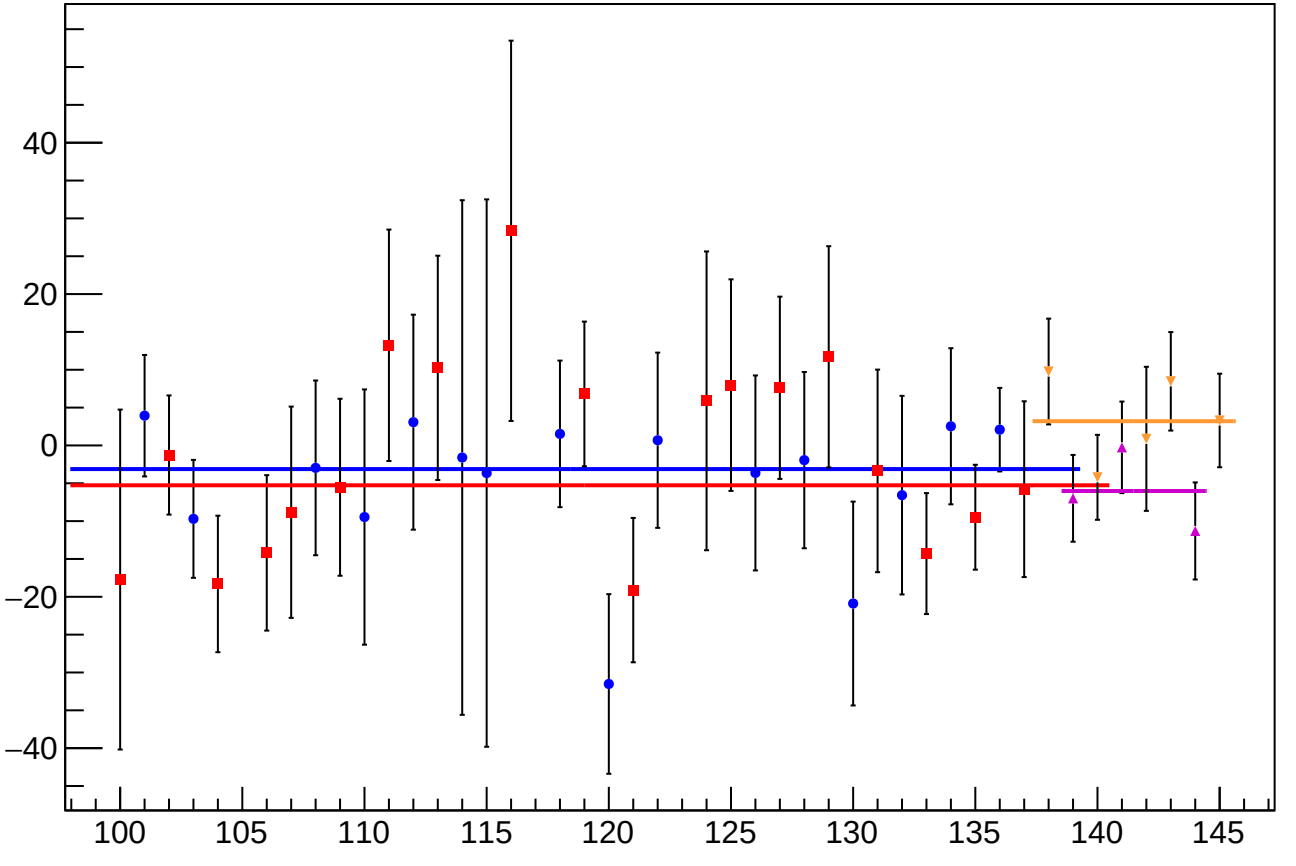
Right: 12669.304+/-2.397 $\chi^2$/NDF: 1246455.4/34

In: 10247.422+/-2.422 $\chi^2$/NDF:1647267.1/18

Out: 9780.752+/-2.181 $\chi^2$/NDF:2042454.5/23

All: 9989.776+/-1.621 $\chi^2$/NDF: 3710224.3/42

# diff_bpm4eY_mean vs Slug, Sign Corrected




Right In: -3.123+/-2.656 $\chi^2$/NDF: 10.9/15

Left Out: 3.203+/-2.974 $\chi^2$/NDF:3.3/4

Right Out: -5.265+/-2.553 $\chi^2$/NDF: 16.9/18

Left In: -6.022+/-3.491 $\chi^2$/NDF:1.6/2

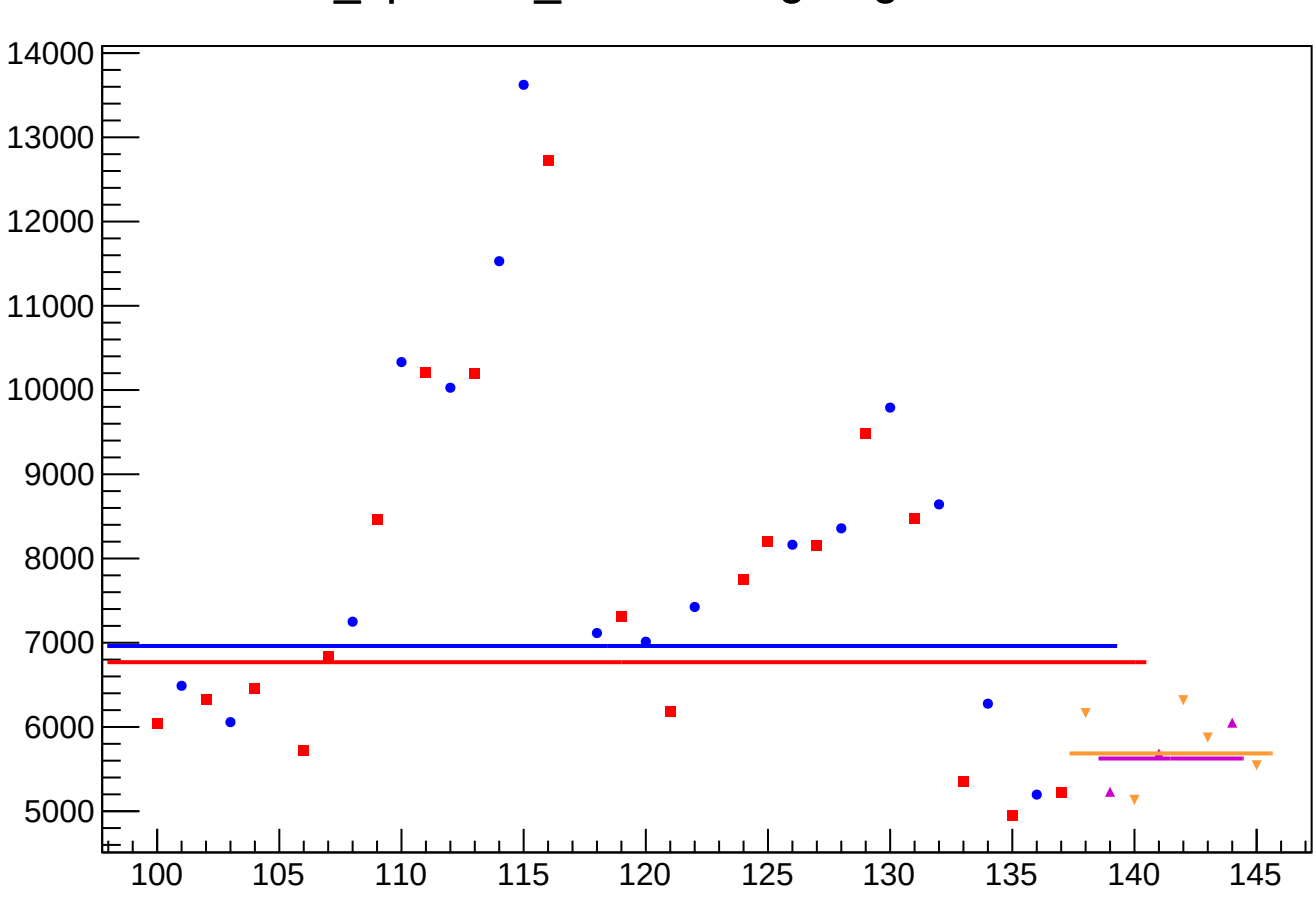
Left: -0.676+/-2.264 $\chi^2$/NDF: 9.0/7

Right: -4.236+/-1.840 $\chi^2$/NDF: 28.1/34

In: -4.186+/-2.114 $\chi^2$/NDF:12.9/18

Out: -1.672+/-1.937 $\chi^2$/NDF:24.9/23

All: -2.820+/-1.428 $\chi^2$/NDF: 38.6/42




Right In: 6961.606+/-1.878 $\chi^2$/NDF: 696410.4/15

Left Out: 5686.095+/-2.103 $\chi^2$/NDF:40221.3/4

Right Out: 6768.993+/-1.805 $\chi^2$/NDF: 798105.0/18

Left In: 5625.689+/-2.468 $\chi^2$/NDF:18493.2/2

Left: 5660.689+/-1.601 $\chi^2$/NDF: 59061.6/7

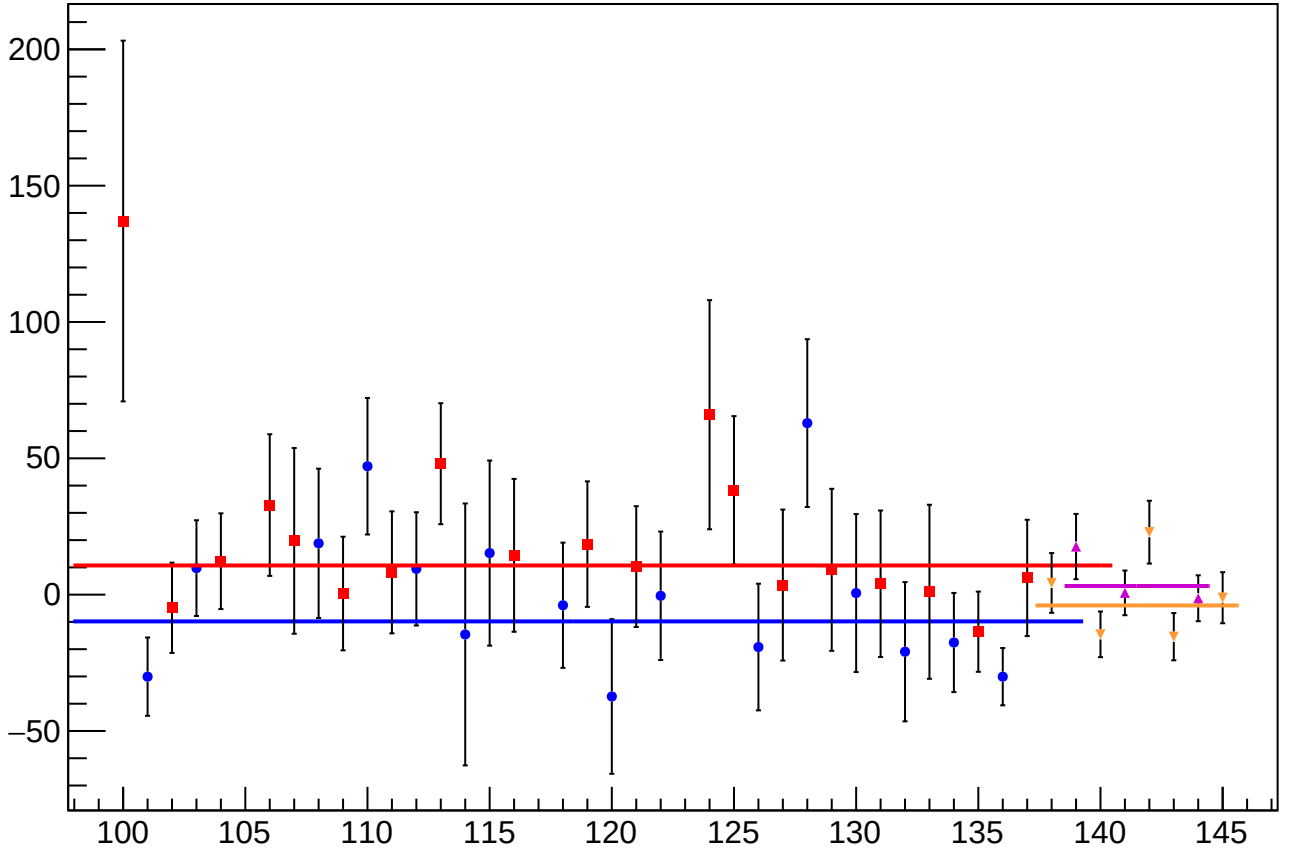
Right: 6861.506+/-1.301 $\chi^2$/NDF: 1499983.0/34

In: 6471.845+/-1.494 $\chi^2$/NDF:900447.2/18

Out: 6309.536+/-1.370 $\chi^2$/NDF:990992.9/23

All: 6383.636+/-1.010 $\chi^2$/NDF: 1897850.2/42

# diff_bpm4acX_mean vs Slug, Sign Corrected




Right In: -9.810+/-5.178 $\chi^2$/NDF: 22.0/15

Left Out: -3.961+/-4.269 $\chi^2$/NDF:9.5/4

Right Out: 10.703+/-5.381 $\chi^2$/NDF: 14.3/18

Left In: 3.173+/-5.271 $\chi^2$/NDF:1.8/2

Left: -1.135+/-3.318 $\chi^2$/NDF: 12.4/7

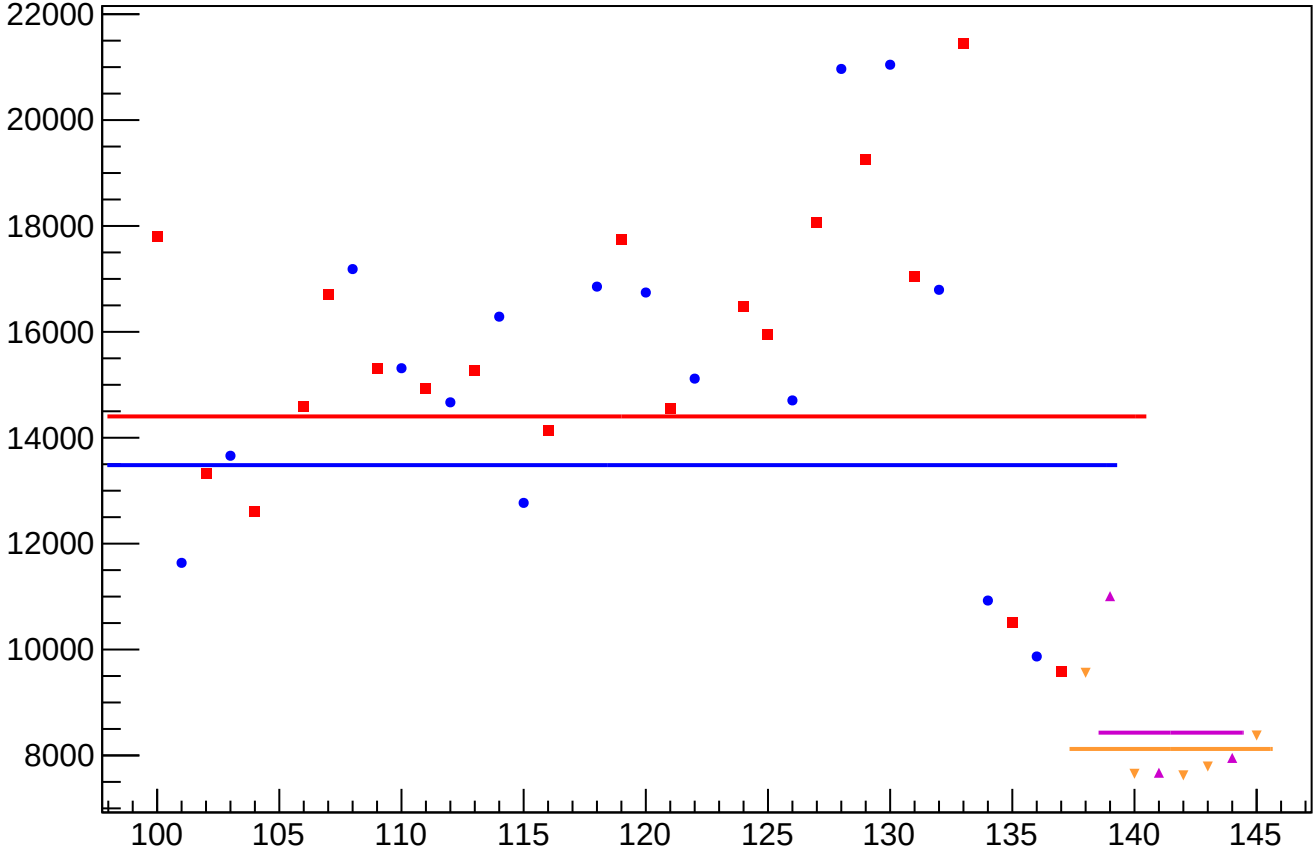
Right: 0.053+/-3.731 $\chi^2$/NDF: 43.9/34

In: -3.434+/-3.694 $\chi^2$/NDF:27.0/18

Out: 1.704+/-3.344 $\chi^2$/NDF:28.3/23

All: -0.610+/-2.479 $\chi^2$/NDF: 56.4/42

# diff_bpm4acX_rms vs Slug, Sign Corrected




Right In: 13482.879+/-3.661 $\chi^2$/NDF: 743704.4/15

Left Out: 8122.415+/-3.019 $\chi^2$/NDF:48932.9/4

Right Out: 14402.670+/-3.805 $\chi^2$/NDF: 552430.0/18

Left In: 8430.175+/-3.727 $\chi^2$/NDF:116267.3/2

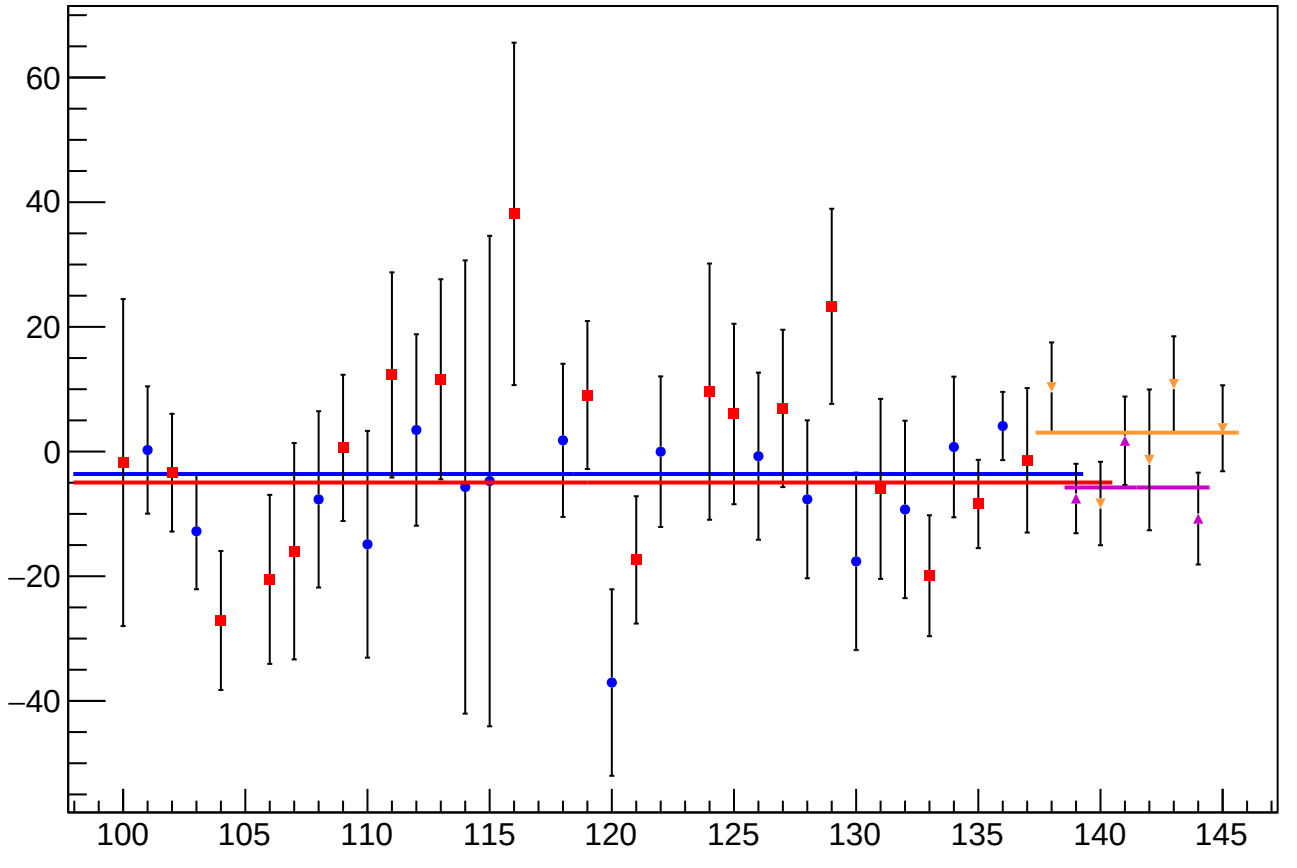
Left: 8244.323+/-2.346 $\chi^2$/NDF: 169317.1/7

Right: 13925.139+/-2.638 $\chi^2$/NDF: 1326477.7/34

In: 11001.639+/-2.612 $\chi^2$/NDF:1795137.4/18

Out: 10548.766+/-2.365 $\chi^2$/NDF:2273412.8/23

All: 10752.764+/-1.753 $\chi^2$/NDF: 4085069.6/4




Right In: -3.605+/-2.940 $\chi^2$/NDF: 10.5/15

Left Out: 3.030+/-3.381 $\chi^2$/NDF:5.1/4

Right Out: -4.965+/-2.855 $\chi^2$/NDF: 21.4/18

Left In: -5.765+/-3.766 $\chi^2$/NDF:1.7/2

Left: -0.895+/-2.516 $\chi^2$/NDF: 9.8/7

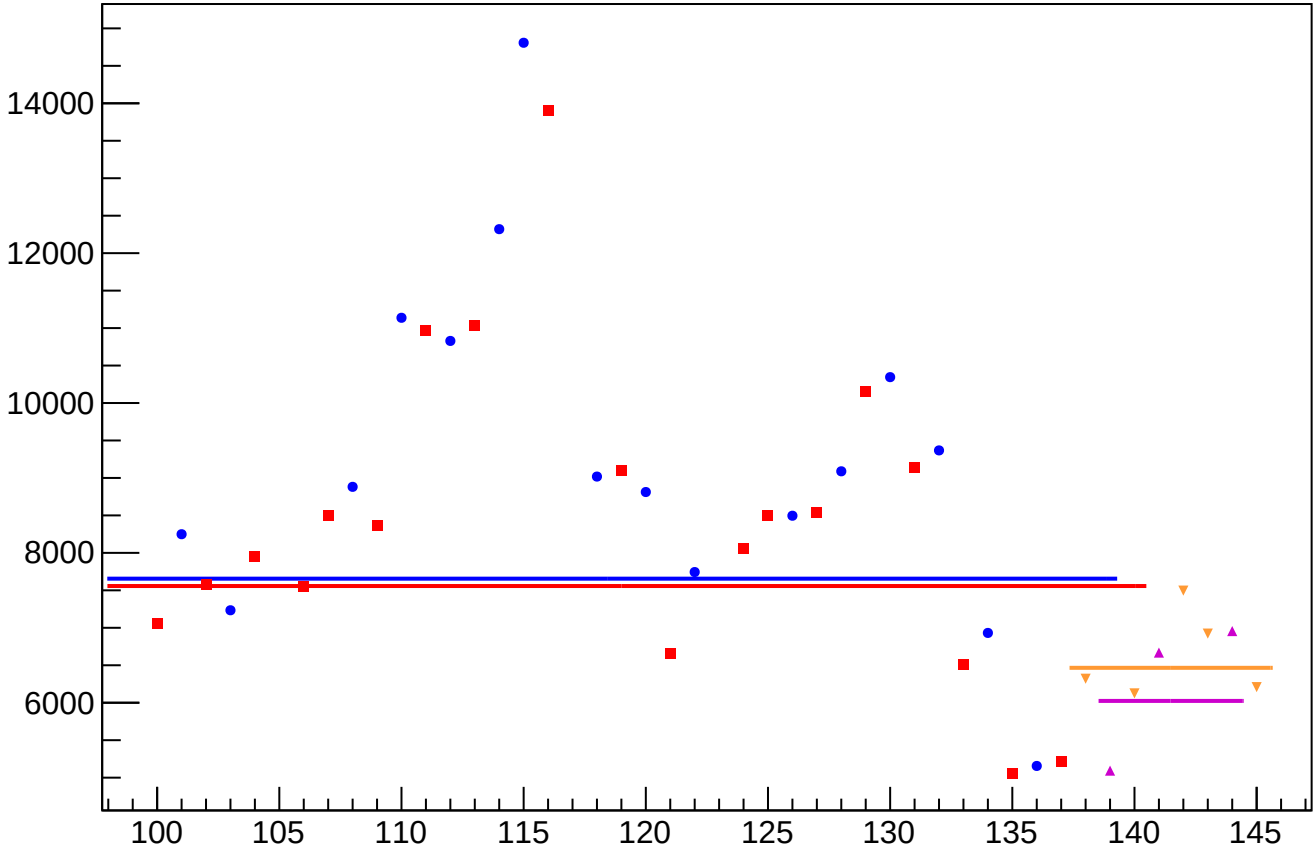
Right: -4.305+/-2.048 $\chi^2$/NDF: 32.0/34

In: -4.423+/-2.317 $\chi^2$/NDF:12.4/18

Out: -1.636+/-2.181 $\chi^2$/NDF:29.7/23

All: -2.945+/-1.588 $\chi^2$/NDF: 42.9/42

# diff_bpm4acY_rms vs Slug, Sign Corrected




Right In: 7655.851+/-2.079 $\chi^2$/NDF: 879769.7/15

Left Out: 6465.859+/-2.390 $\chi^2$/NDF:32551.9/4

Right Out: 7557.497+/-2.019 $\chi^2$/NDF: 809860.3/18

Left In: 6024.140+/-2.663 $\chi^2$/NDF:104336.1/2

Left: 6268.737+/-1.779 $\chi^2$/NDF: 152126.3/7

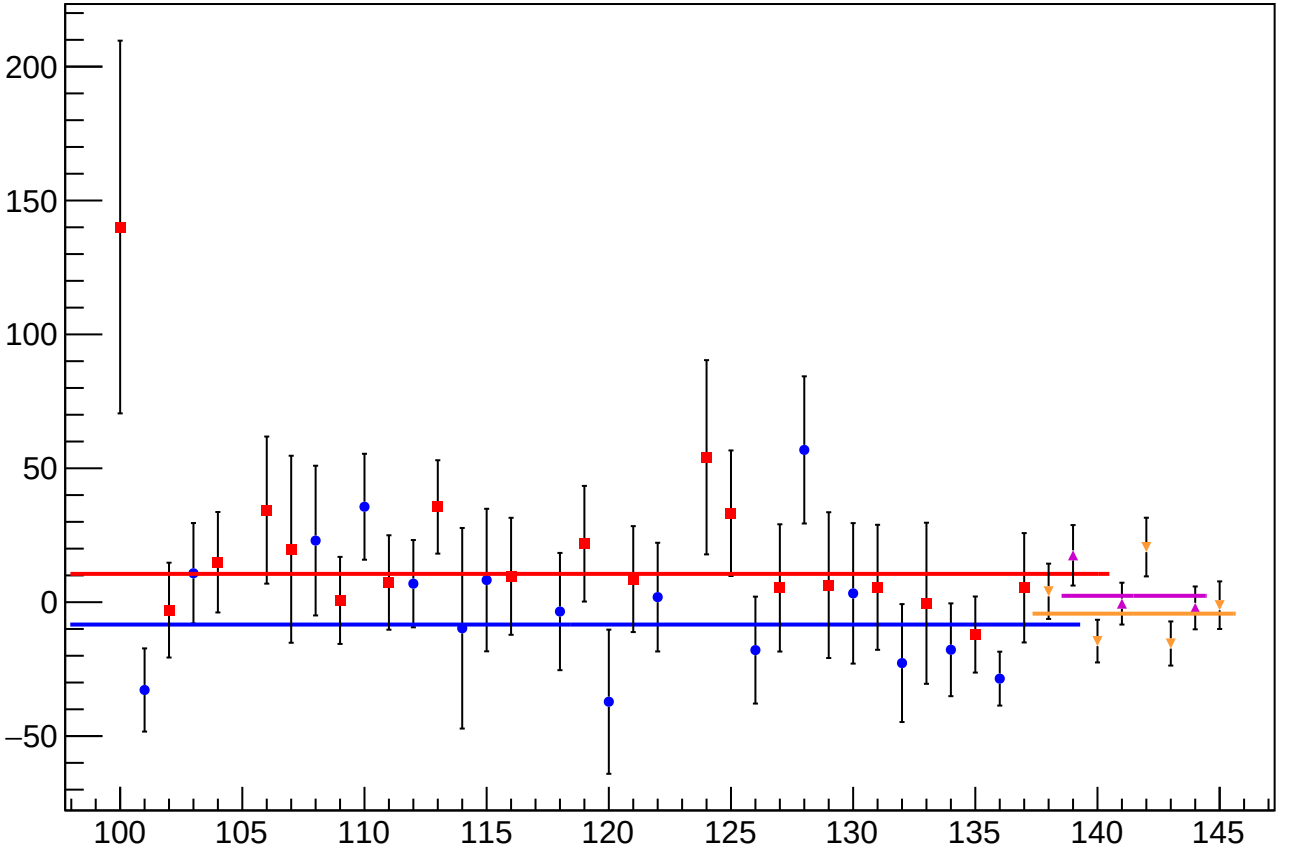
Right: 7605.240+/-1.448 $\chi^2$/NDF: 1690781.9/34

In: 7037.927+/-1.639 $\chi^2$/NDF:1217413.9/18

Out: 7102.957+/-1.542 $\chi^2$/NDF:964125.9/23

All: 7072.405+/-1.123 $\chi^2$/NDF: 2182374.8/42

# diff_bpm4ecX_mean vs Slug, Sign Corrected




Right In: -8.352+/-4.814 $\chi^2$/NDF: 23.2/15

Left Out: -4.282+/-4.055 $\chi^2$/NDF:9.4/4

Right Out: 10.573+/-4.911 $\chi^2$/NDF: 12.9/18

Left In: 2.385+/-5.009 $\chi^2$/NDF:2.3/2

Left: -1.642+/-3.152 $\chi^2$/NDF: 12.7/7

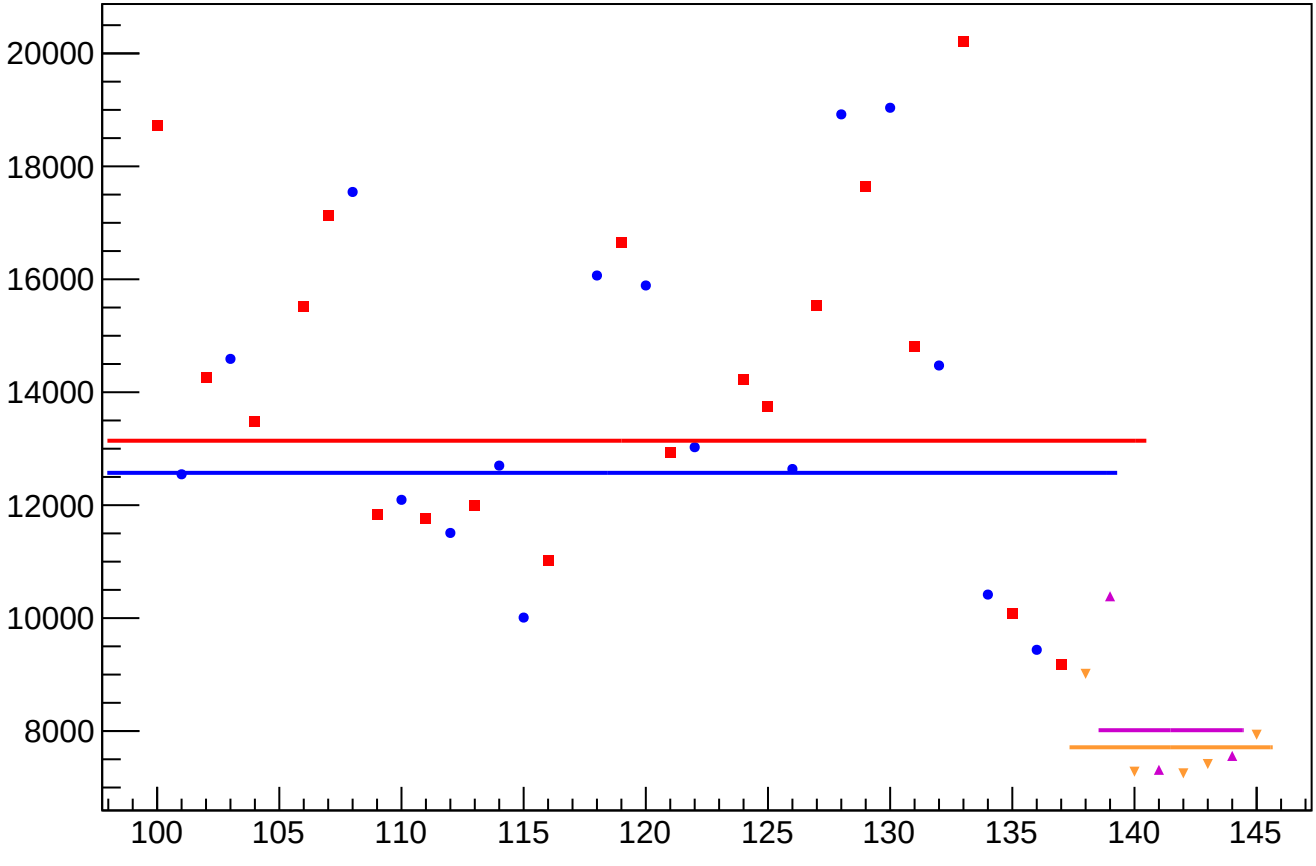
Right: 0.922+/-3.438 $\chi^2$/NDF: 43.7/34

In: -3.197+/-3.471 $\chi^2$/NDF:27.9/18

Out: 1.740+/-3.127 $\chi^2$/NDF:27.8/23

All: -0.471+/-2.323 $\chi^2$/NDF: 56.8/42

# diff_bpm4ecX_rms vs Slug, Sign Corrected




Right In: 12572.586+/-3.404 $\chi^2$/NDF: 665026.8/15

Left Out: 7712.414+/-2.867 $\chi^2$/NDF:45015.4/4

Right Out: 13141.218+/-3.473 $\chi^2$/NDF: 534726.5/18

Left In: 8014.876+/-3.542 $\chi^2$/NDF:110805.5/2

Left: 7832.149+/-2.229 $\chi^2$/NDF: 160226.3/7

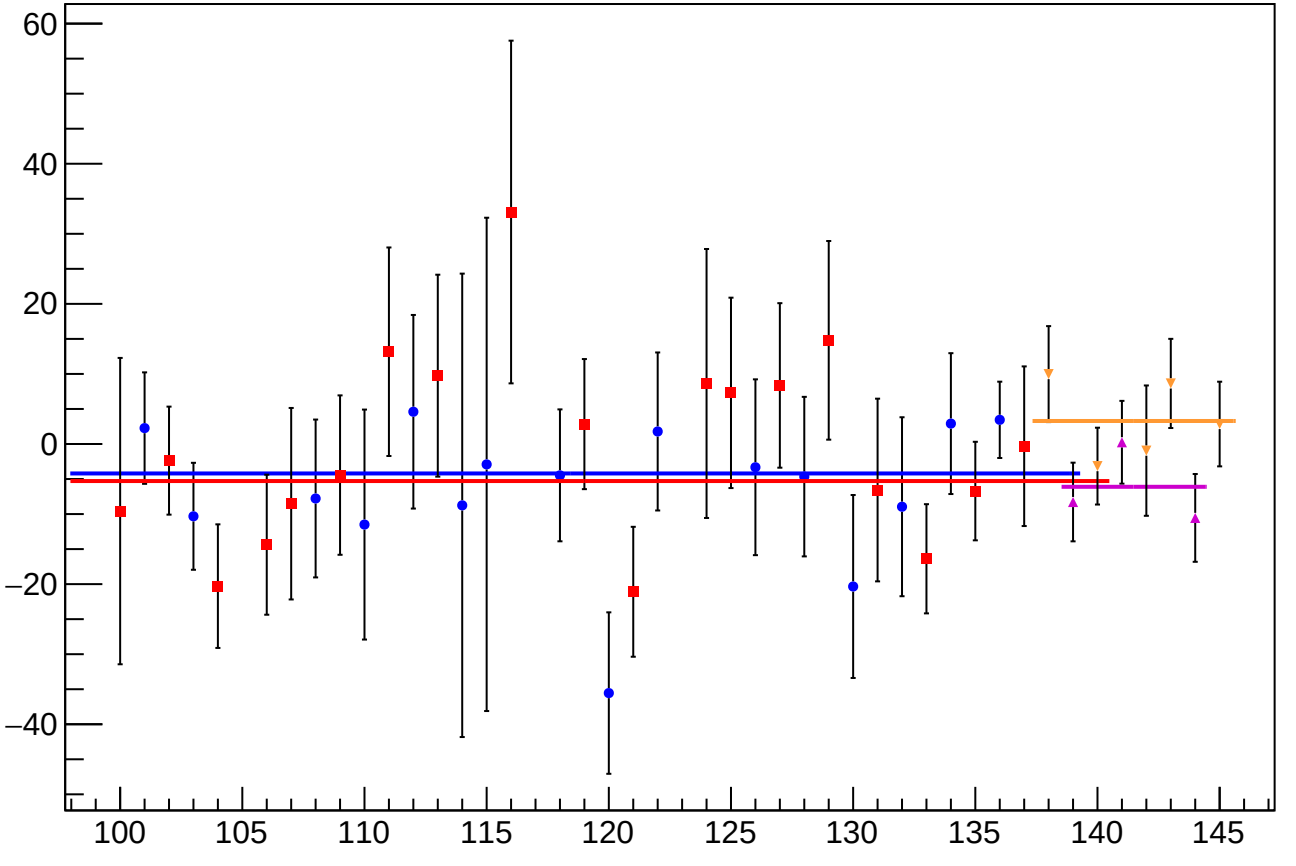
Right: 12851.222+/-2.431 $\chi^2$/NDF: 1213428.5/34

In: 10384.349+/-2.454 $\chi^2$/NDF:1636637.4/18

Out: 9913.133+/-2.211 $\chi^2$/NDF:2033055.1/23

All: 10124.230+/-1.643 $\chi^2$/NDF: 3690041.8/4

# diff_bpm4ecY_mean vs Slug, Sign Corrected




Right In: -4.204+/-2.600 $\chi^2$/NDF: 13.9/15

Left Out: 3.284+/-2.908 $\chi^2$/NDF:3.3/4

Right Out: -5.288+/-2.502 $\chi^2$/NDF: 19.7/18

Left In: -6.109+/-3.413 $\chi^2$/NDF:1.8/2

Left: -0.667+/-2.214 $\chi^2$/NDF: 9.5/7

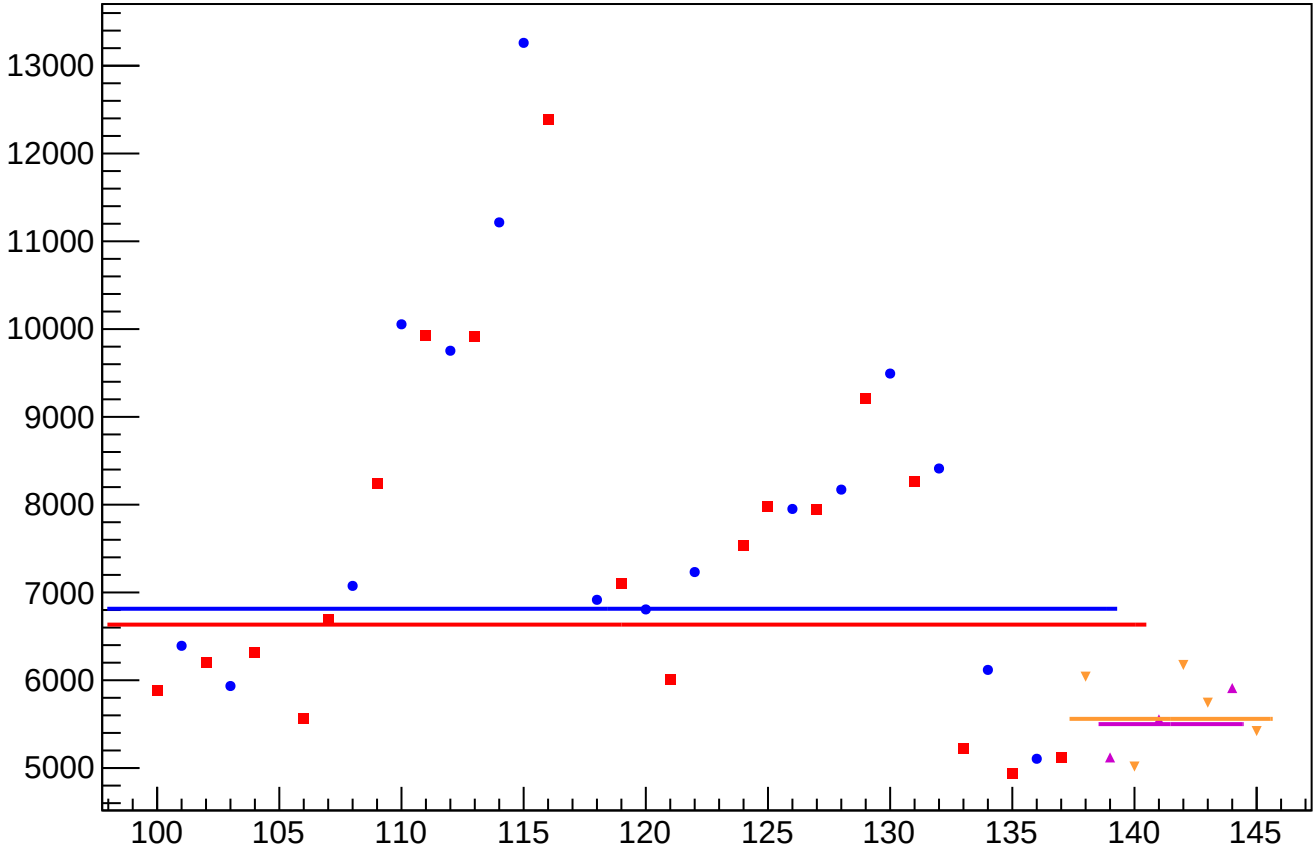
Right: -4.767+/-1.803 $\chi^2$/NDF: 33.7/34

In: -4.904+/-2.068 $\chi^2$/NDF:15.9/18

Out: -1.642+/-1.897 $\chi^2$/NDF:28.0/23

All: -3.132+/-1.398 $\chi^2$/NDF: 45.2/42

# diff_bpm4ecY_rms vs Slug, Sign Corrected




Right In: 6814.282+/-1.839 $\chi^2$/NDF: 674093.4/15

Left Out: 5560.239+/-2.056 $\chi^2$/NDF:40926.3/4

Right Out: 6633.695+/-1.769 $\chi^2$/NDF: 763347.6/18

Left In: 5500.295+/-2.413 $\chi^2$/NDF:17898.5/2

Left: 5535.022+/-1.565 $\chi^2$/NDF: 59182.2/7

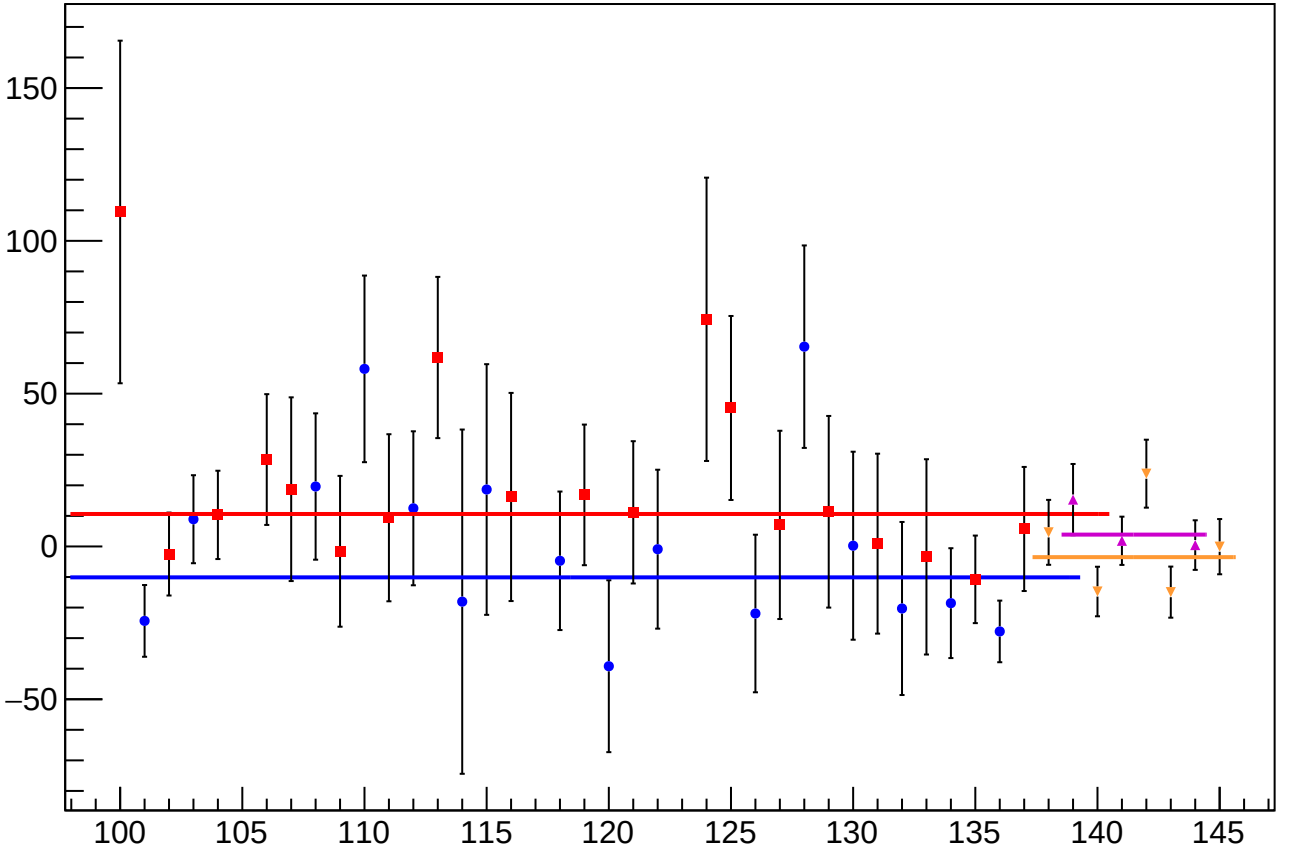
Right: 6720.509+/-1.275 $\chi^2$/NDF: 1442449.8/34

In: 6331.642+/-1.463 $\chi^2$/NDF:879569.0/18

Out: 6177.109+/-1.341 $\chi^2$/NDF:960862.2/23

All: 6247.697+/-0.988 $\chi^2$/NDF: 1846495.7/42

# diff_bpm1X_mean vs Slug, Sign Corrected




Right In: -10.113+/-5.017 $\chi^2$/NDF: 21.3/15

Left Out: -3.500+/-4.127 $\chi^2$/NDF:10.6/4

Right Out: 10.624+/-5.277 $\chi^2$/NDF: 14.7/18

Left In: 3.874+/-5.090 $\chi^2$/NDF:1.2/2

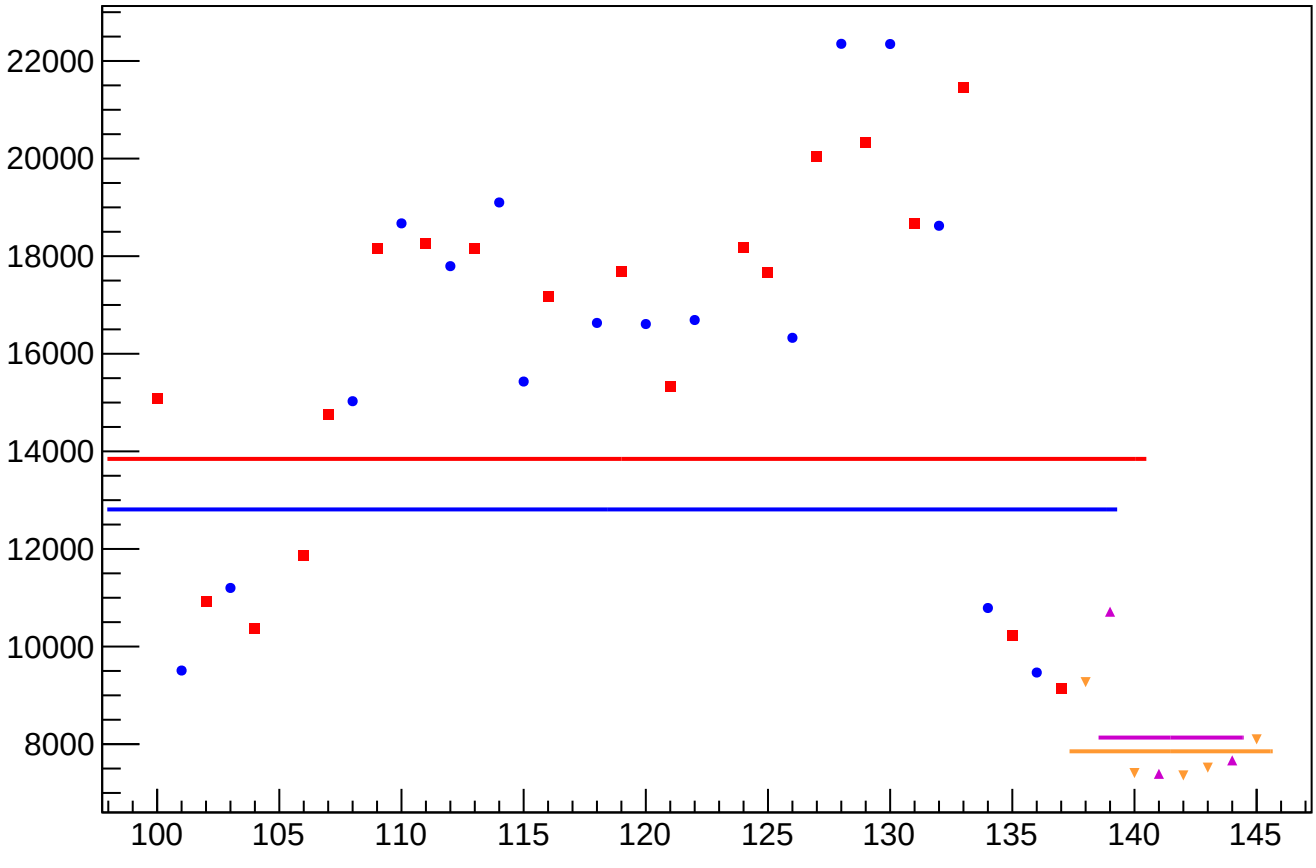
Left: -0.575+/-3.206 $\chi^2$/NDF: 13.0/7

Right: -0.267+/-3.636 $\chi^2$/NDF: 44.1/34

In: -3.220+/-3.573 $\chi^2$/NDF:26.3/18

Out: 1.860+/-3.251 $\chi^2$/NDF:29.7/23

All: -0.440+/-2.405 $\chi^2$/NDF: 57.2/42




Right In: 12809.964+/-3.548 $\chi^2$/NDF: 1248252.1/15

Left Out: 7853.146+/-2.918 $\chi^2$/NDF:50275.2/4

Right Out: 13845.622+/-3.731 $\chi^2$/NDF: 1096555.2/18

Left In: 8134.696+/-3.599 $\chi^2$/NDF:122391.0/2

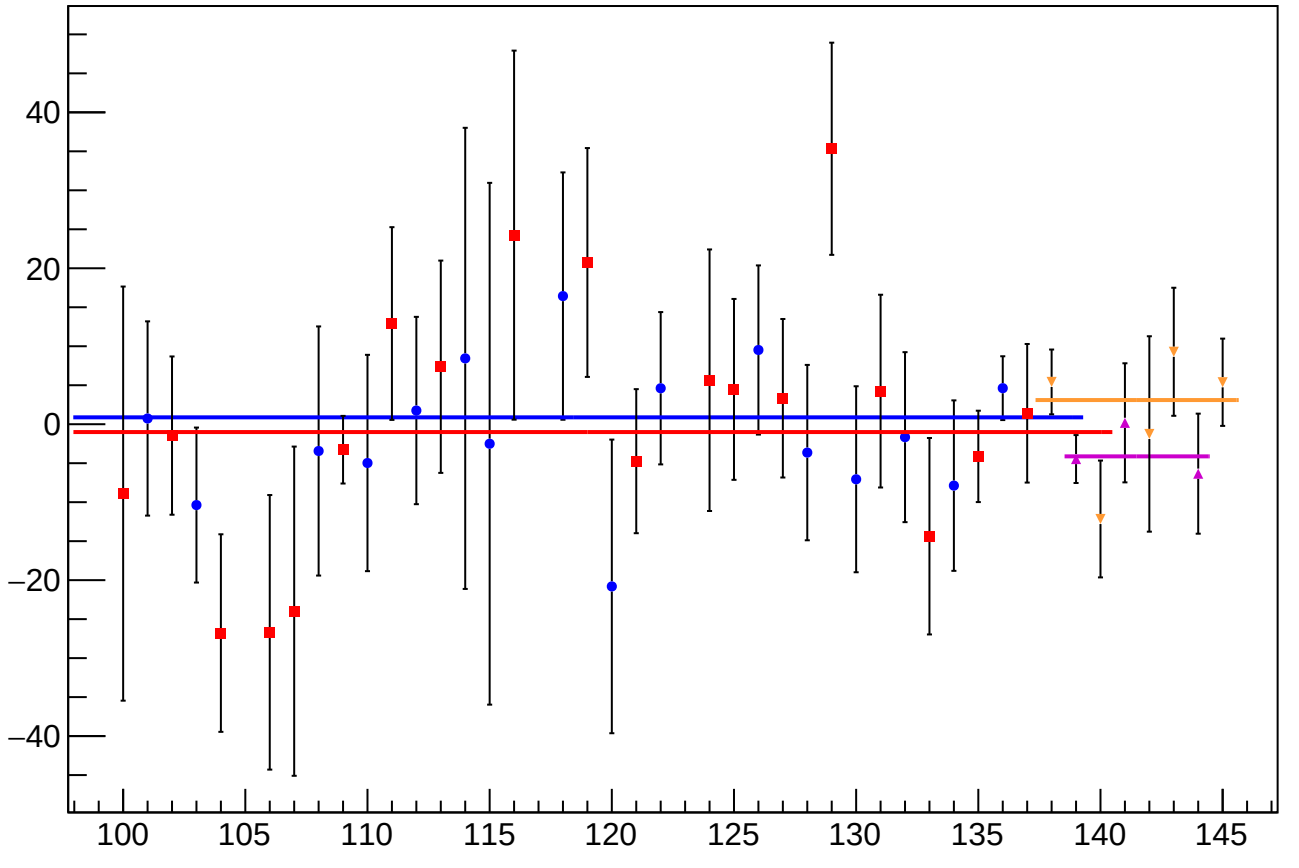
Left: 7964.826+/-2.267 $\chi^2$/NDF: 176358.4/7

Right: 13301.707+/-2.571 $\chi^2$/NDF: 2385270.2/34

In: 10505.929+/-2.527 $\chi^2$/NDF:2226493.7/18

Out: 10127.558+/-2.299 $\chi^2$/NDF:2747244.7/23

All: 10298.912+/-1.700 $\chi^2$/NDF: 4986008.8/4




Right In: 0.882+/-2.566 $\chi^2$/NDF: 6.8/15

Left Out: 3.099+/-2.786 $\chi^2$/NDF:5.3/4

Right Out: -1.006+/-2.314 $\chi^2$/NDF: 22.3/18

Left In: -4.124+/-2.673 $\chi^2$/NDF:0.4/2

Left: -0.661+/-1.929 $\chi^2$/NDF: 9.2/7

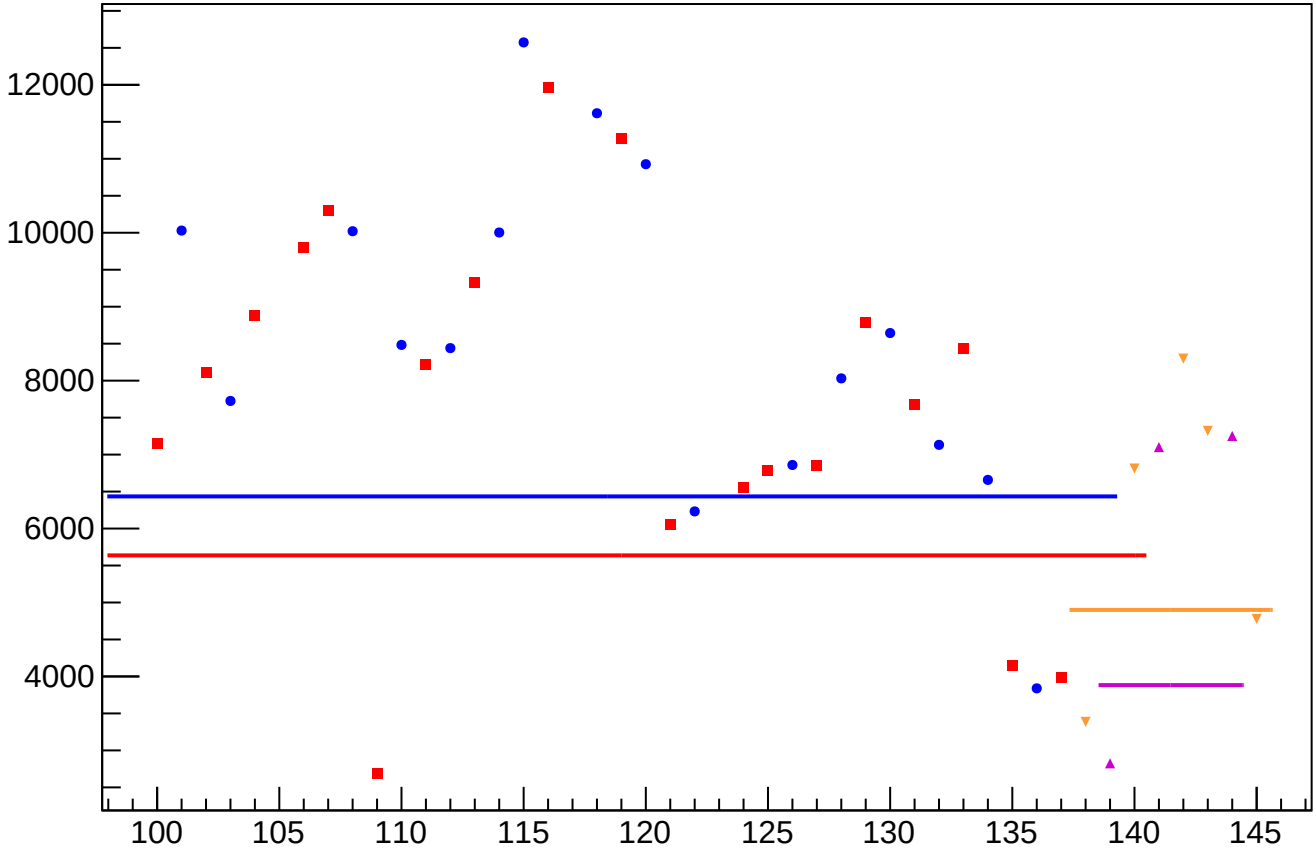
Right: -0.159+/-1.718 $\chi^2$/NDF: 29.4/34

In: -1.519+/-1.851 $\chi^2$/NDF:9.1/18

Out: 0.670+/-1.780 $\chi^2$/NDF:28.9/23

All: -0.381+/-1.283 $\chi^2$/NDF: 38.7/42

# diff_bpm1Y_rms vs Slug, Sign Corrected




Right In: 6434.559+/-1.814 $\chi^2$/NDF: 1750609.4/15

Left Out: 4899.967+/-1.970 $\chi^2$/NDF:717608.0/4

Right Out: 5637.344+/-1.636 $\chi^2$/NDF: 2580013.6/18

Left In: 3882.981+/-1.890 $\chi^2$/NDF:975287.0/2

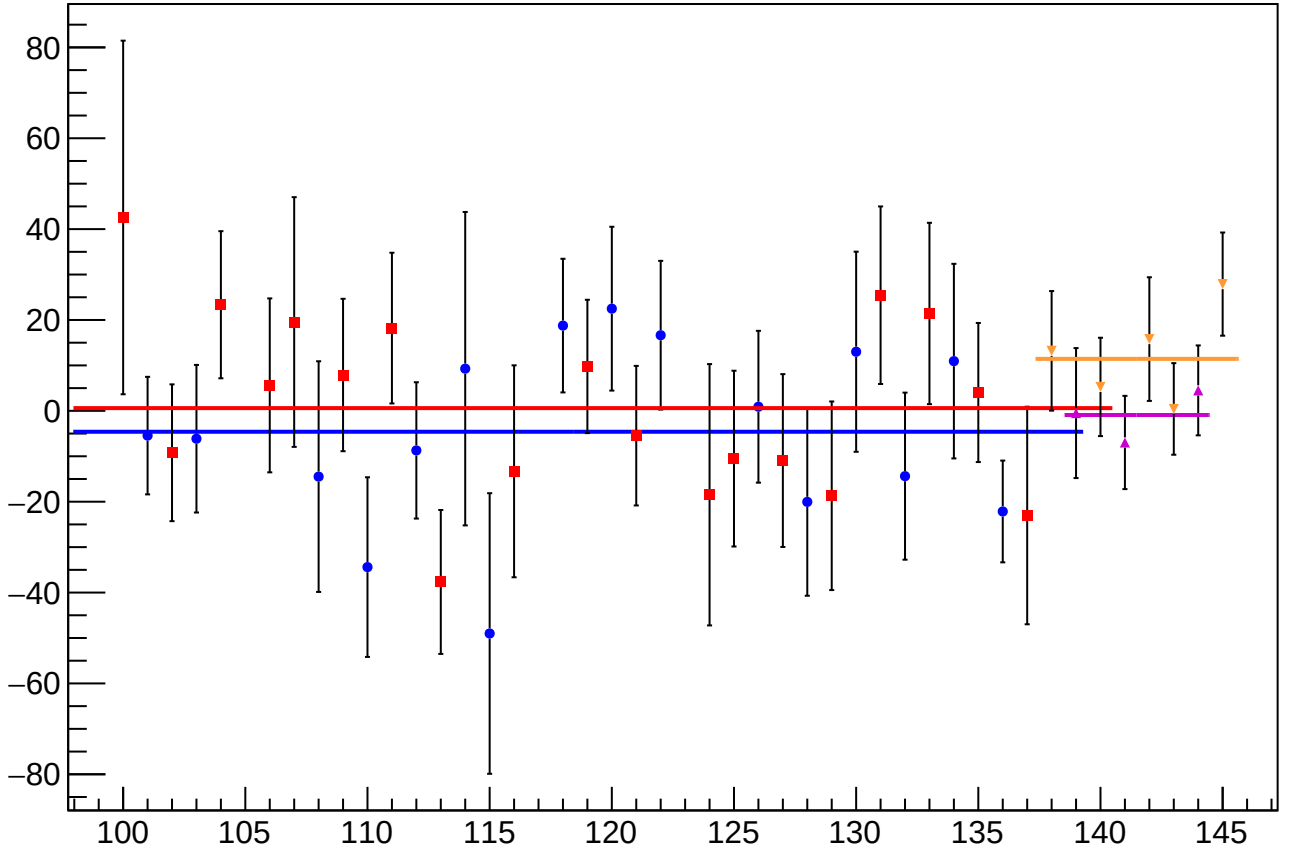
Left: 4370.530+/-1.364 $\chi^2$/NDF: 1831674.9/7

Right: 5994.862+/-1.215 $\chi^2$/NDF: 4437091.5/34

In: 5210.881+/-1.309 $\chi^2$/NDF:3674244.9/18

Out: 5336.284+/-1.259 $\chi^2$/NDF:3380547.2/23

All: 5276.043+/-0.907 $\chi^2$/NDF: 7059561.1/42




Right In: -4.602+/-4.355 $\chi^2$/NDF: 15.8/15

Left Out: 11.444+/-5.177 $\chi^2$/NDF:3.7/4

Right Out: 0.600+/-4.266 $\chi^2$/NDF: 17.9/18

Left In: -0.917+/-6.377 $\chi^2$/NDF:0.6/2

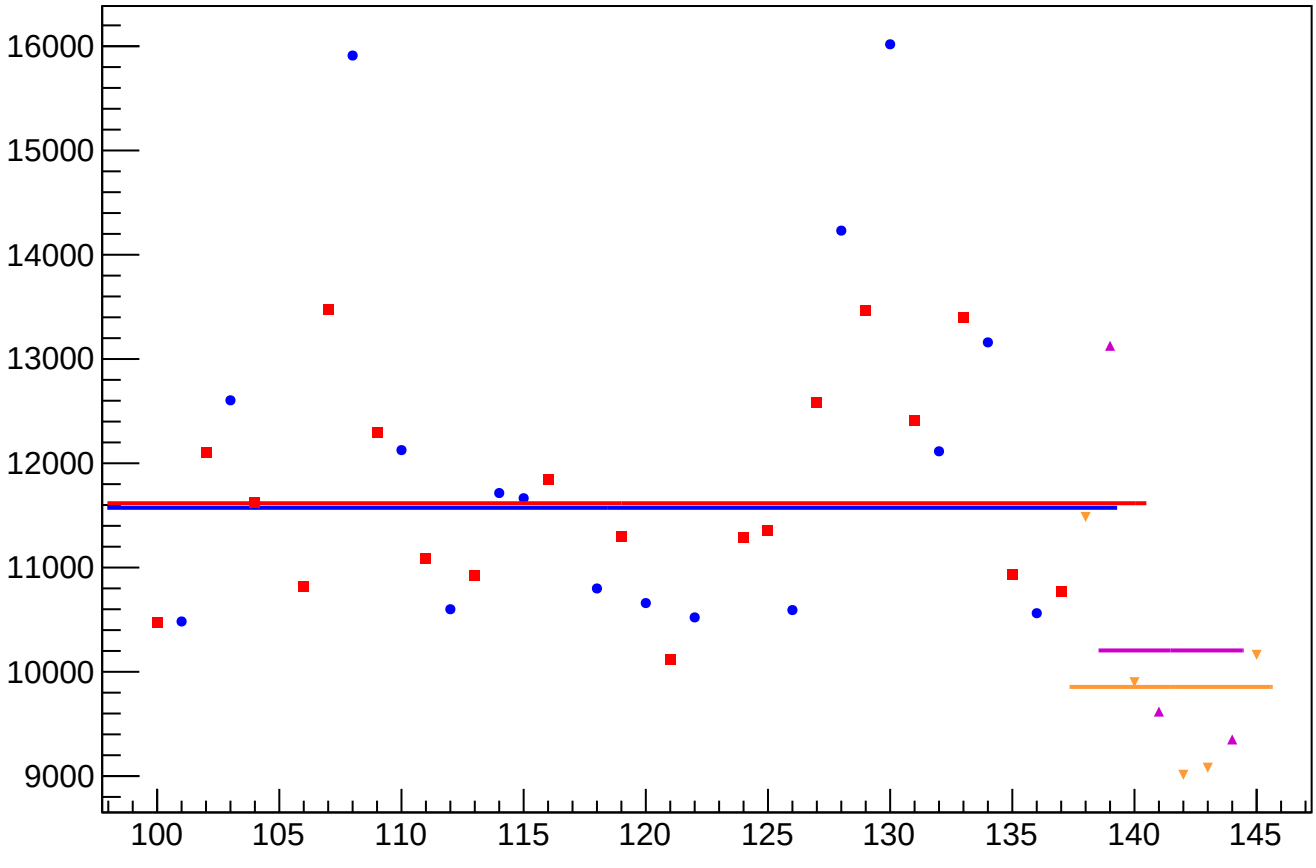
Left: 6.533+/-4.019 $\chi^2$/NDF: 6.7/7

Right: -1.948+/-3.048 $\chi^2$/NDF: 34.4/34

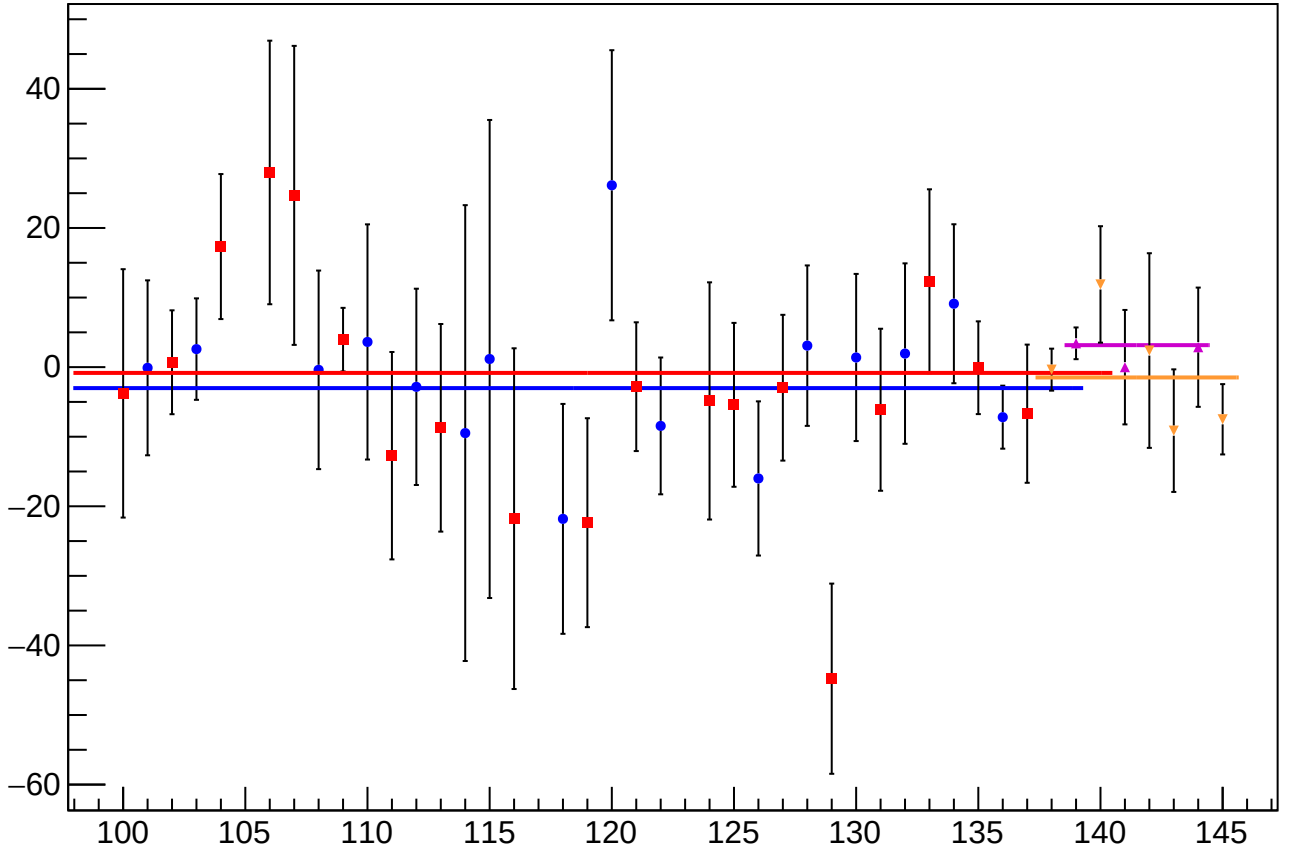
In: -3.430+/-3.596 $\chi^2$/NDF:16.7/18

Out: 4.986+/-3.293 $\chi^2$/NDF:24.2/23

All: 1.148+/-2.428 $\chi^2$/NDF: 43.9/42


diff_bpm11X_rms vs Slug, Sign Corrected
16000
15000
14000
13000
12000
11000
10000
9000
100
105
110
115
120
125
130
135
140
145
Right In: 11573.073+/-3.079 χ²/NDF: 260067.0/15
Left Out: 9855.229+/-3.661 χ²/NDF:51688.8/4
Right Out: 11616.773+/-3.017 χ²/NDF: 93165.6/18
Left In: 10204.915+/-4.509 χ²/NDF:104841.1/2
Left: 9994.154+/-2.842 χ²/NDF: 160154.5/7
Right: 11595.370+/-2.155 χ²/NDF: 353335.4/34
In: 11137.972+/-2.543 χ²/NDF:427690.4/18
Out: 10904.345+/-2.328 χ²/NDF:282740.8/23
All: 11010.882+/-1.717 χ²/NDF: 715023.0/42

# diff_bpm11Y_mean vs Slug, Sign Corrected




Right In: -3.014+/-2.654 $\chi^2$/NDF: 8.7/15

Left Out: -1.484+/-2.349 $\chi^2$/NDF:4.9/4

Right Out: -0.831+/-2.352 $\chi^2$/NDF: 23.8/18

Left In: 3.159+/-2.128 $\chi^2$/NDF:0.2/2

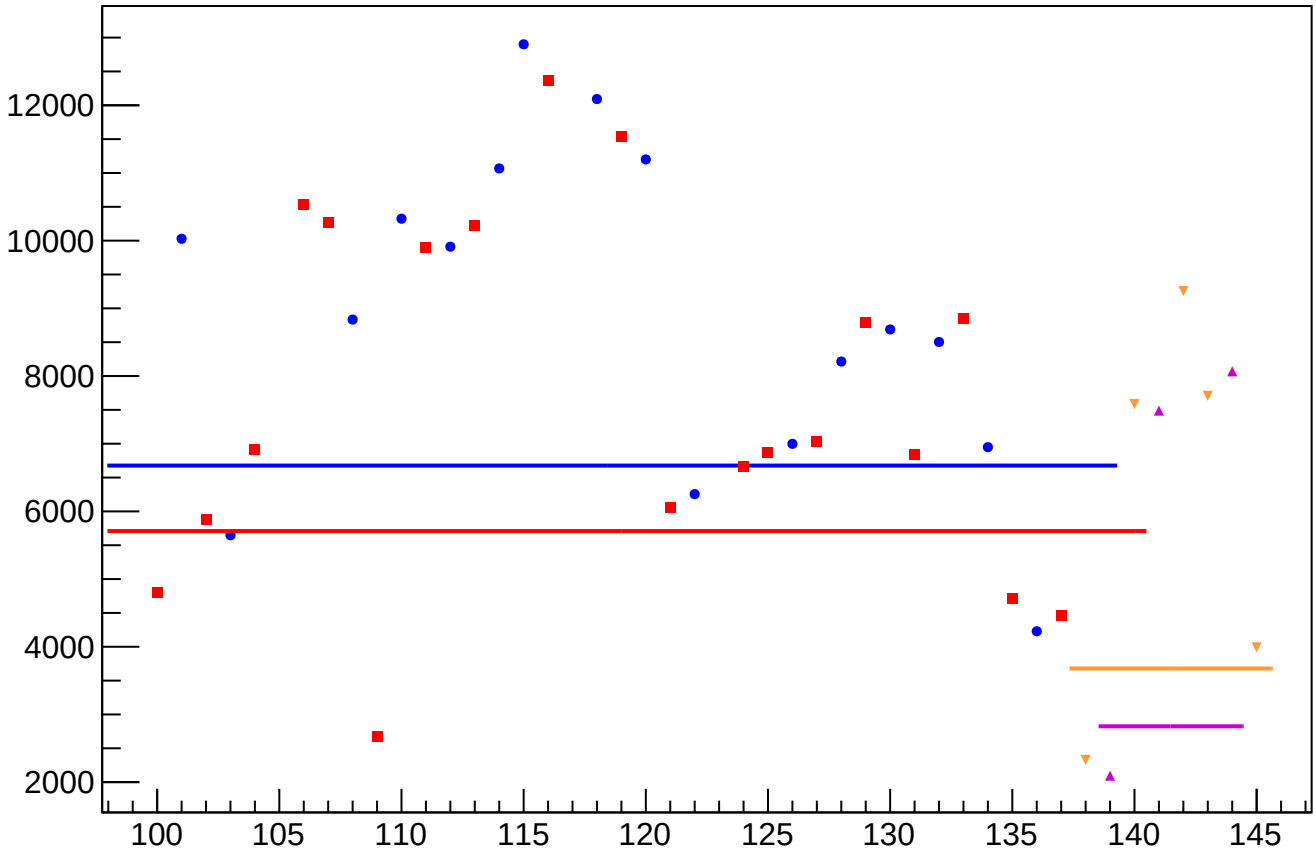
Left: 1.066+/-1.577 $\chi^2$/NDF: 7.2/7

Right: -1.791+/-1.760 $\chi^2$/NDF: 32.9/34

In: 0.743+/-1.660 $\chi^2$/NDF:12.1/18

Out: -1.158+/-1.662 $\chi^2$/NDF:28.8/23

All: -0.207+/-1.175 $\chi^2$/NDF: 41.6/42




Right In: 6676.920+/-1.877 $\chi^2$/NDF: 1572864.3/15

Left Out: 3679.336+/-1.661 $\chi^2$/NDF:1580570.7/4

Right Out: 5709.821+/-1.663 $\chi^2$/NDF: 2301039.5/18

Left In: 2825.034+/-1.505 $\chi^2$/NDF:1597102.2/2

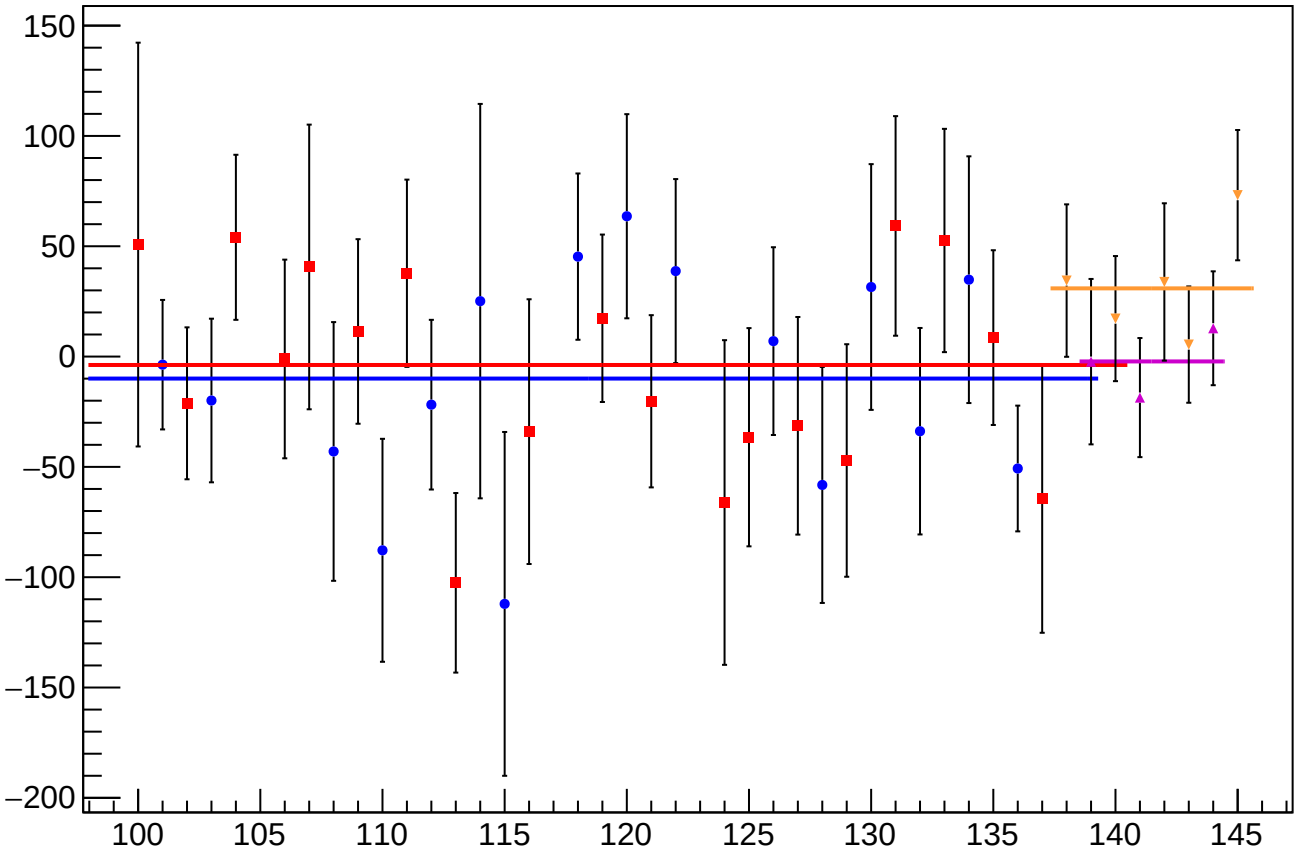
Left: 3210.233+/-1.115 $\chi^2$/NDF: 3322962.0/7

Right: 6135.167+/-1.245 $\chi^2$/NDF: 4022672.5/34

In: 4332.691+/-1.174 $\chi^2$/NDF:5733934.8/18

Out: 4693.346+/-1.175 $\chi^2$/NDF:4628051.3/23

All: 4512.862+/-0.831 $\chi^2$/NDF: 10409126.0/4




Right In: -9.969+/-10.836 $\chi^2$/NDF: 15.3/15

Left Out: 30.910+/-13.541 $\chi^2$/NDF:3.2/4

Right Out: -3.814+/-10.636 $\chi^2$/NDF: 17.3/18

Left In: -2.204+/-16.699 $\chi^2$/NDF:0.7/2

Left: 17.774+/-10.518 $\chi^2$/NDF: 6.3/7

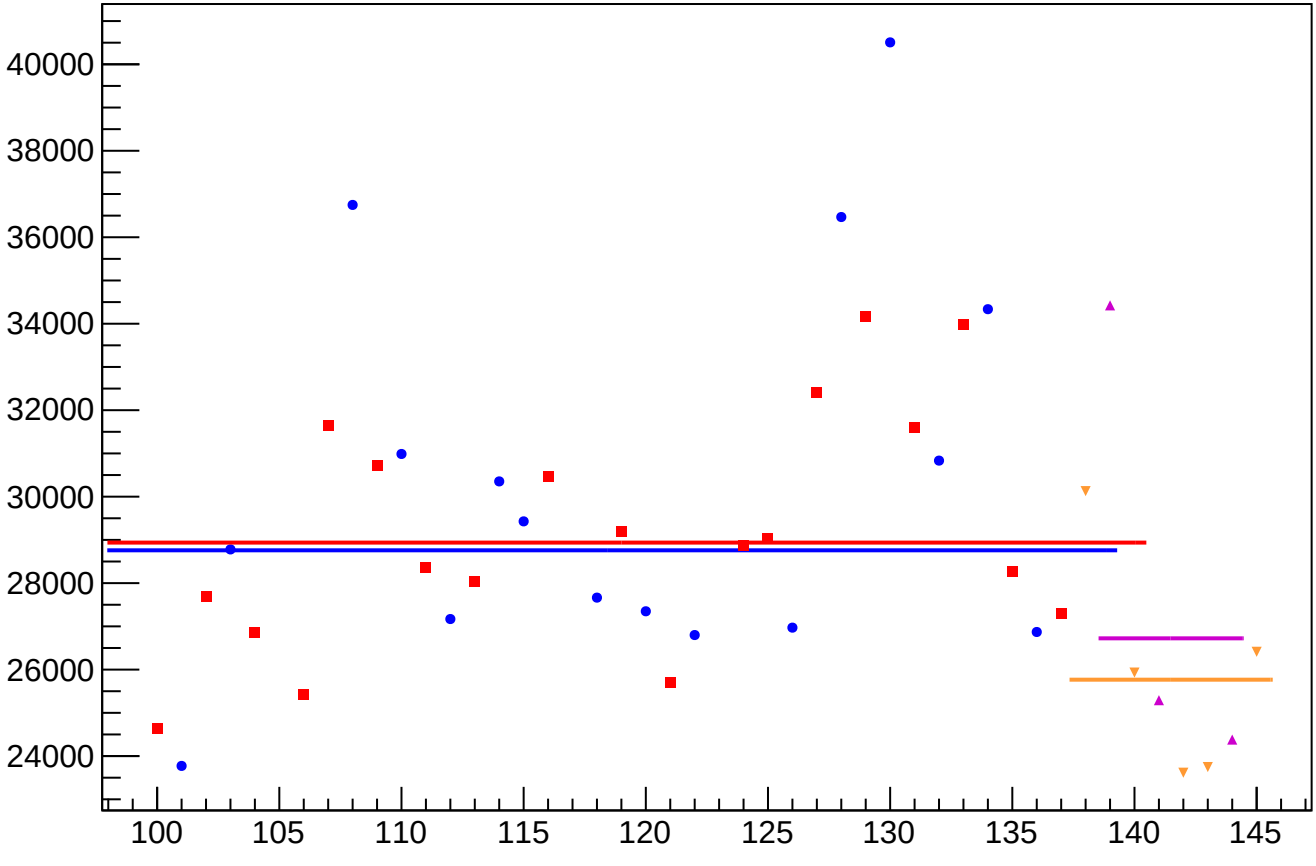
Right: -6.834+/-7.591 $\chi^2$/NDF: 32.8/34

In: -7.668+/-9.090 $\chi^2$/NDF:16.2/18

Out: 9.435+/-8.364 $\chi^2$/NDF:24.6/23

All: 1.593+/-6.155 $\chi^2$/NDF: 42.7/42

# diff_bpm12X_rms vs Slug, Sign Corrected




Right In: 28759.090+/-7.662 $\chi^2$/NDF: 277639.9/15

Left Out: 25766.848+/-9.575 $\chi^2$/NDF:51916.4/4

Right Out: 28937.633+/-7.521 $\chi^2$/NDF: 106266.0/18

Left In: 26723.126+/-11.808 $\chi^2$/NDF:106498.0/2

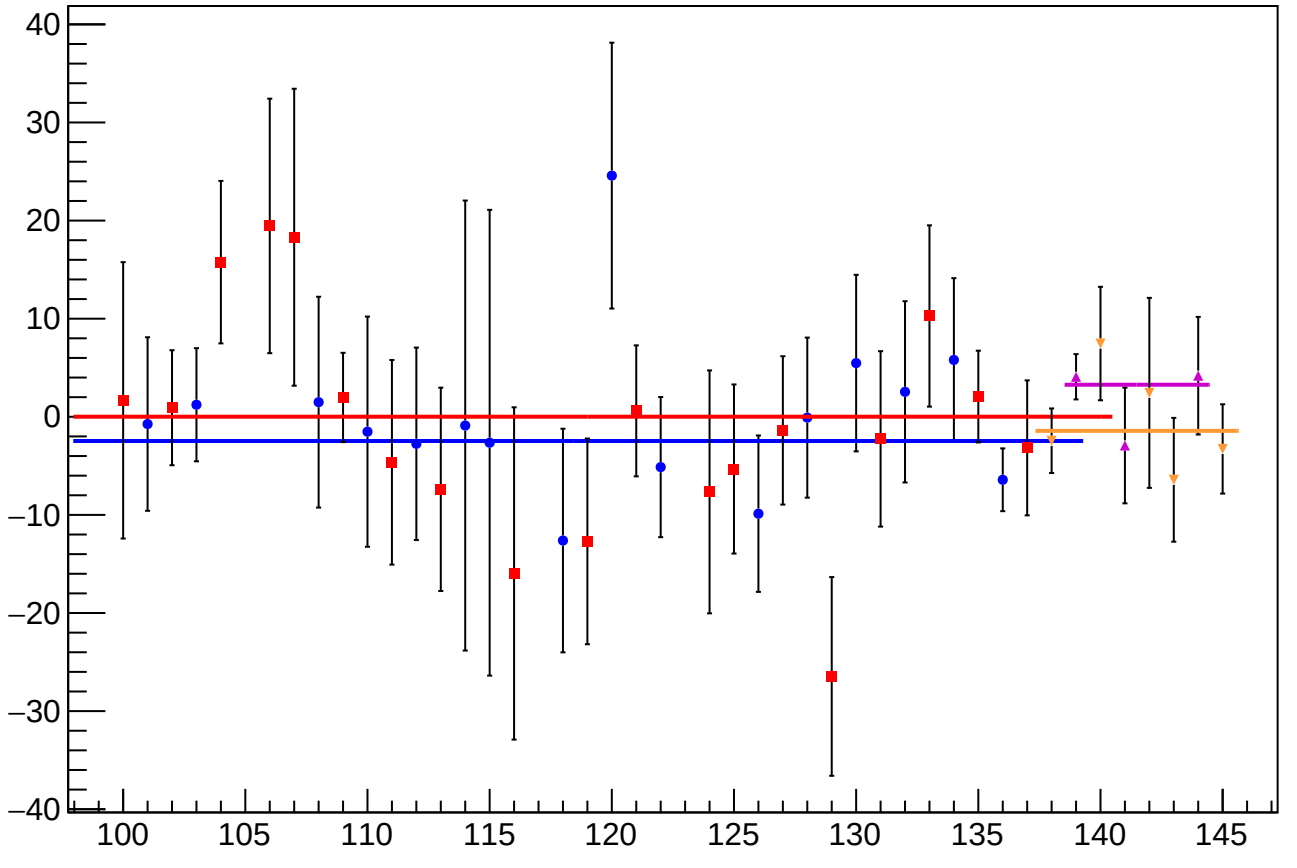
Left: 26146.205+/-7.437 $\chi^2$/NDF: 162371.2/7

Right: 28850.024+/-5.367 $\chi^2$/NDF: 384182.4/34

In: 28155.806+/-6.428 $\chi^2$/NDF:405057.9/18

Out: 27727.806+/-5.915 $\chi^2$/NDF:226000.4/23

All: 27924.043+/-4.352 $\chi^2$/NDF: 633459.2/42




Right In: -2.467+/-1.916 $\chi^2$/NDF: 10.0/15

Left Out: -1.432+/-2.202 $\chi^2$/NDF:3.4/4

Right Out: 0.009+/-1.828 $\chi^2$/NDF: 20.0/18

Left In: 3.268+/-2.024 $\chi^2$/NDF:1.2/2

Left: 1.116+/-1.490 $\chi^2$/NDF: 7.1/7

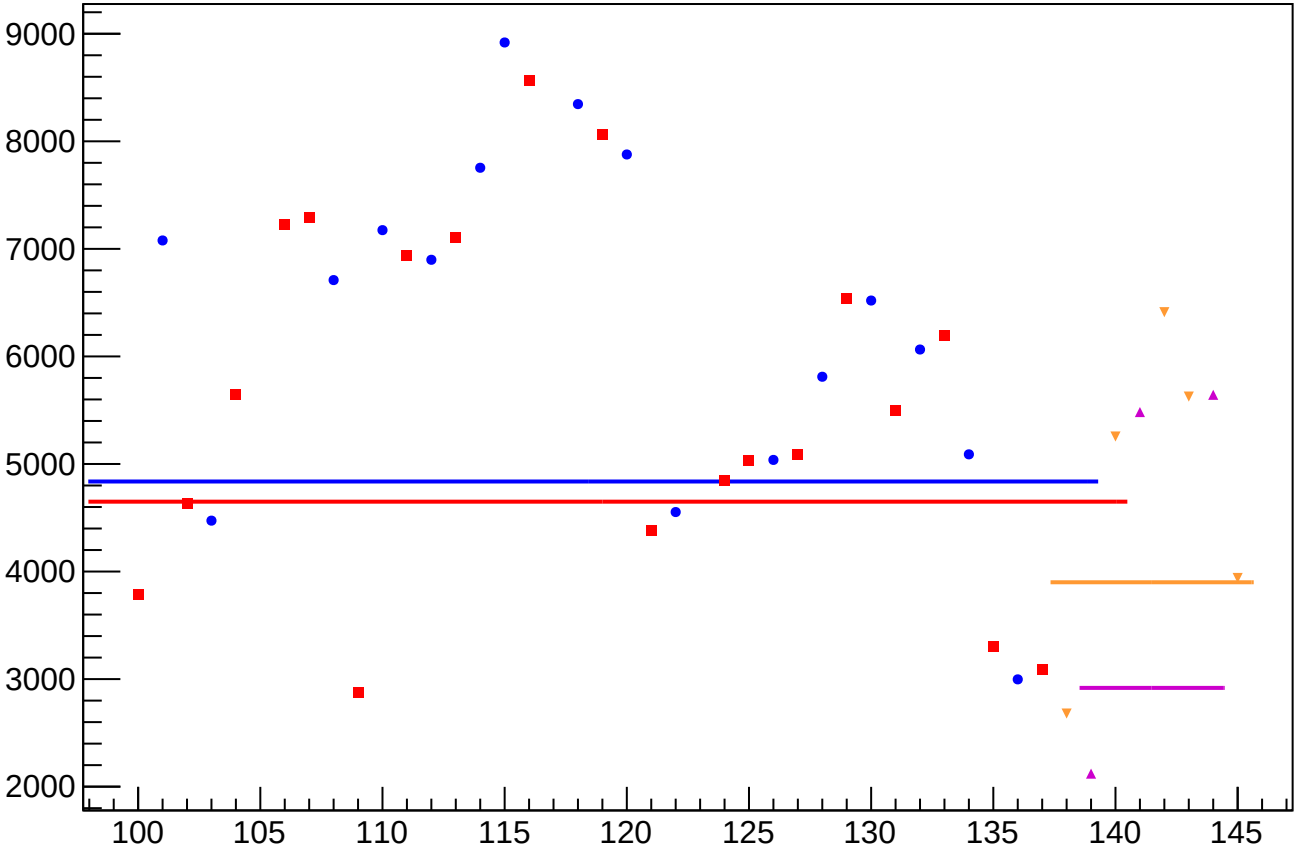
Right: -1.171+/-1.323 $\chi^2$/NDF: 30.9/34

In: 0.243+/-1.391 $\chi^2$/NDF:15.5/18

Out: -0.579+/-1.407 $\chi^2$/NDF:23.6/23

All: -0.163+/-0.989 $\chi^2$/NDF: 39.3/42

# diff_bpm12Y_rms vs Slug, Sign Corrected




Right In: 4837.176+/-1.355 $\chi^2$/NDF: 1547766.9/15

Left Out: 3900.264+/-1.557 $\chi^2$/NDF:669016.5/4

Right Out: 4649.613+/-1.293 $\chi^2$/NDF: 1434548.7/18

Left In: 2918.235+/-1.431 $\chi^2$/NDF:1029714.7/2

Left: 3367.870+/-1.054 $\chi^2$/NDF: 1914353.9/7

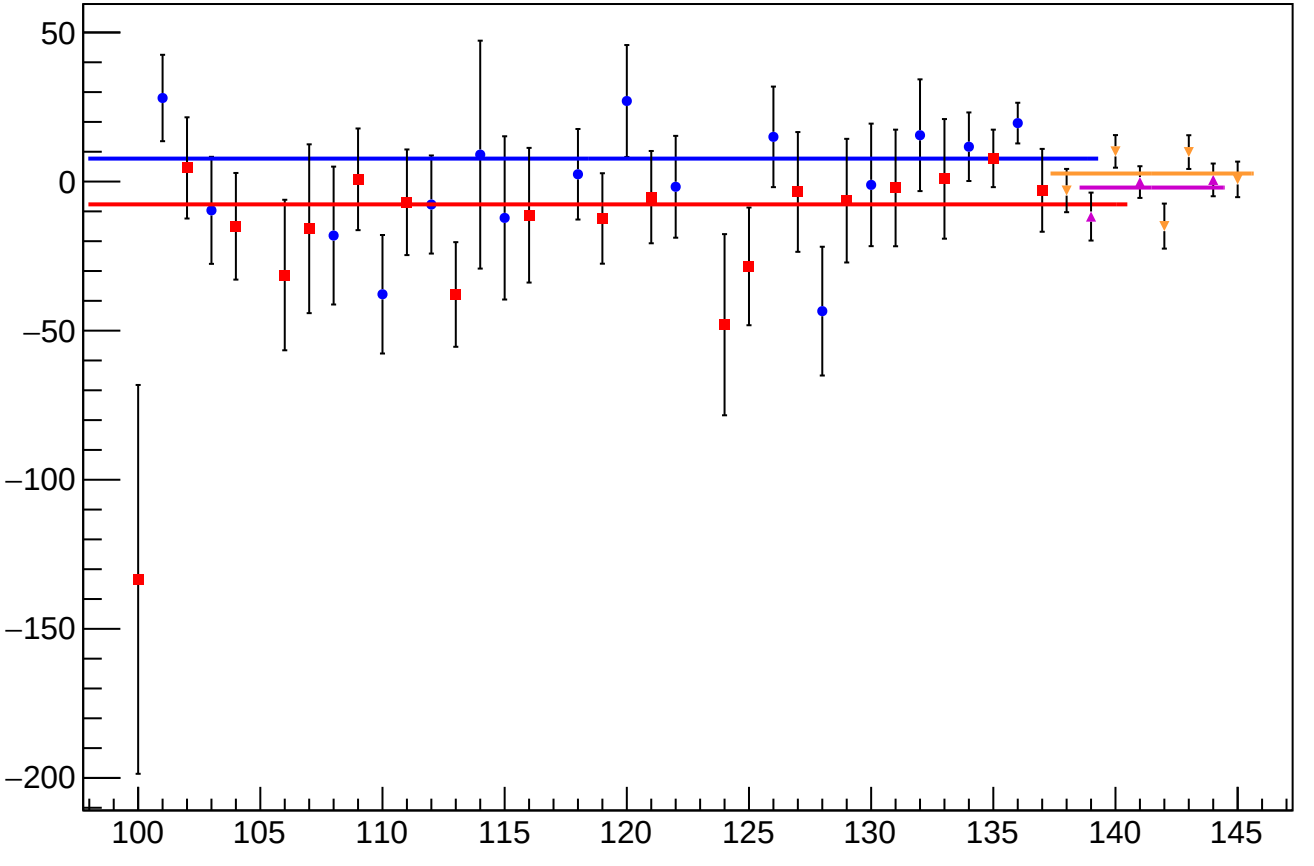
Right: 4739.013+/-0.935 $\chi^2$/NDF: 2992350.1/34

In: 3930.337+/-0.984 $\chi^2$/NDF:3525890.3/18

Out: 4343.885+/-0.995 $\chi^2$/NDF:2240663.9/23

All: 4134.836+/-0.699 $\chi^2$/NDF: 5853943.6/42

# diff_bpm16X_mean vs Slug, Sign Corrected




Right In: 7.699+/-3.820 $\chi^2$/NDF: 21.6/15

Left Out: 2.696+/-2.780 $\chi^2$/NDF:9.6/4

Right Out: -7.650+/-4.099 $\chi^2$/NDF: 14.6/18

Left In: -2.012+/-3.448 $\chi^2$/NDF:1.8/2

Left: 0.842+/-2.164 $\chi^2$/NDF: 12.6/7

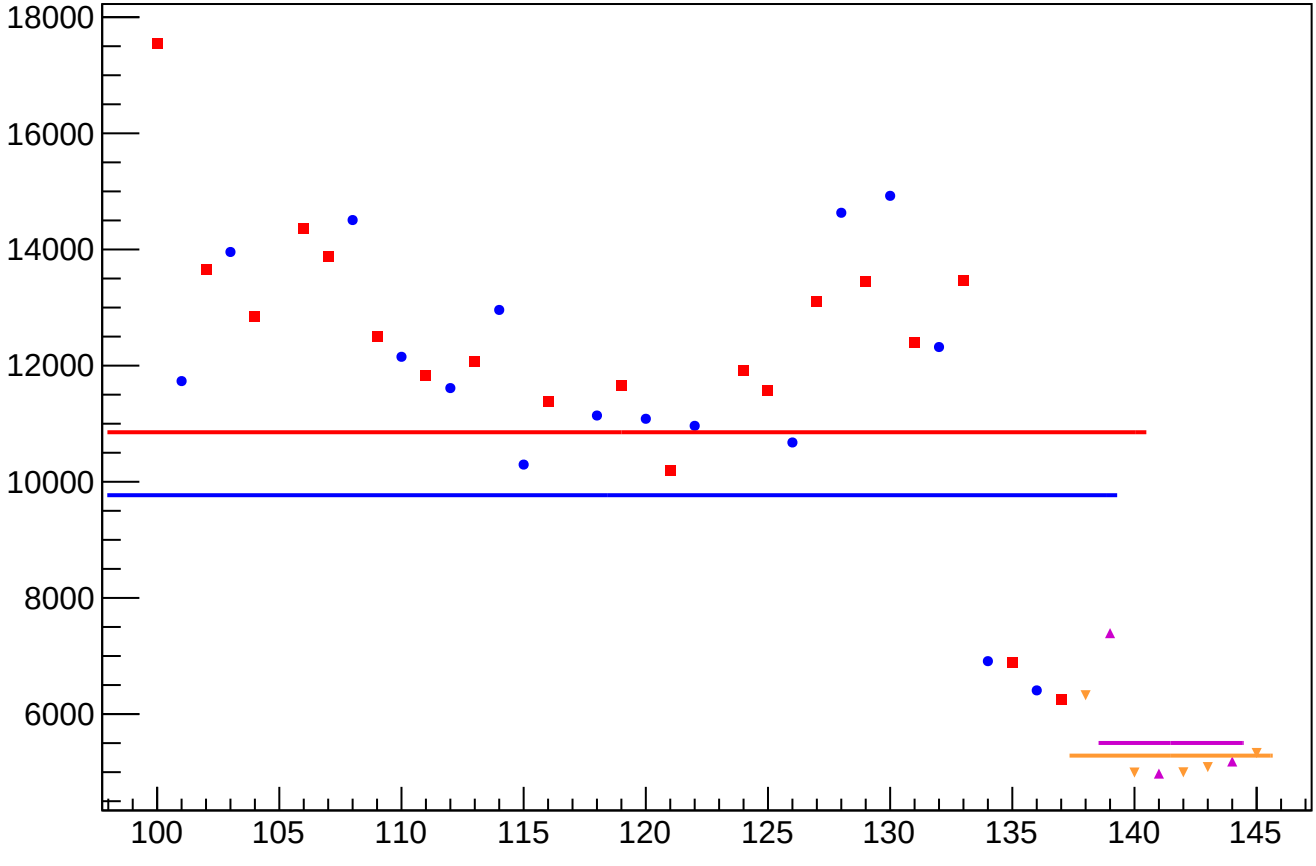
Right: 0.565+/-2.795 $\chi^2$/NDF: 43.7/34

In: 2.348+/-2.560 $\chi^2$/NDF:27.0/18

Out: -0.563+/-2.301 $\chi^2$/NDF:28.6/23

All: 0.738+/-1.711 $\chi^2$/NDF: 56.3/42

# diff_bpm16X_rms vs Slug, Sign Corrected




Right In: 9768.772+/-2.701 $\chi^2$/NDF: 1213694.6/15

Left Out: 5284.770+/-1.966 $\chi^2$/NDF:52207.5/4

Right Out: 10852.989+/-2.899 $\chi^2$/NDF: 874500.2/18

Left In: 5502.694+/-2.438 $\chi^2$/NDF:137090.8/2

Left: 5370.610+/-1.530 $\chi^2$/NDF: 194140.4/7

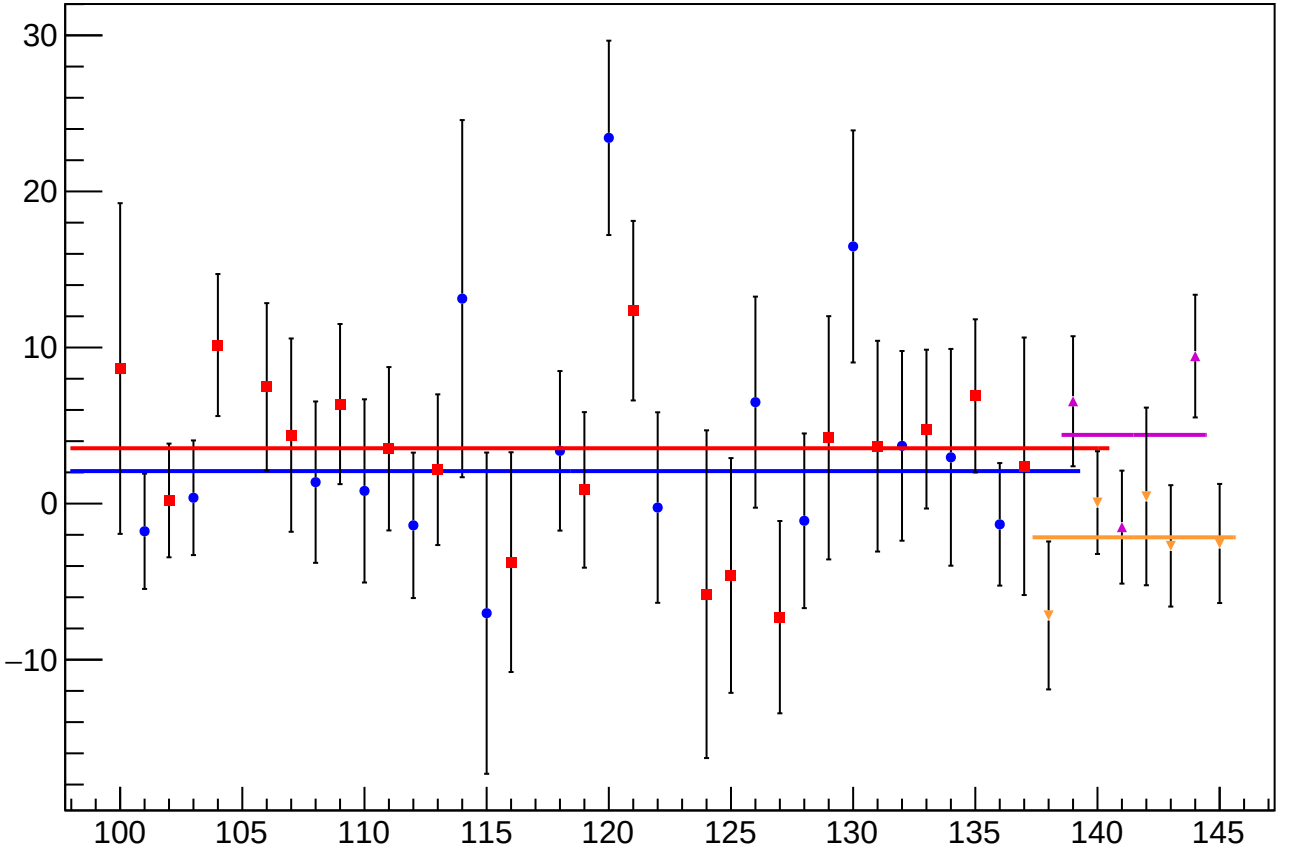
Right: 10272.667+/-1.976 $\chi^2$/NDF: 2163082.8/34

In: 7418.117+/-1.810 $\chi^2$/NDF:2725375.4/18

Out: 7038.677+/-1.627 $\chi^2$/NDF:3454606.7/23

All: 7208.244+/-1.210 $\chi^2$/NDF: 6204294.1/42

# diff_bpm16Y_mean vs Slug, Sign Corrected




Right In: 2.082+/-1.345 $\chi^2$/NDF: 21.0/15

Left Out: -2.160+/-1.818 $\chi^2$/NDF:1.8/4

Right Out: 3.546+/-1.304 $\chi^2$/NDF: 13.4/18

Left In: 4.402+/-2.243 $\chi^2$/NDF:4.6/2

Left: 0.441+/-1.412 $\chi^2$/NDF: 11.6/7

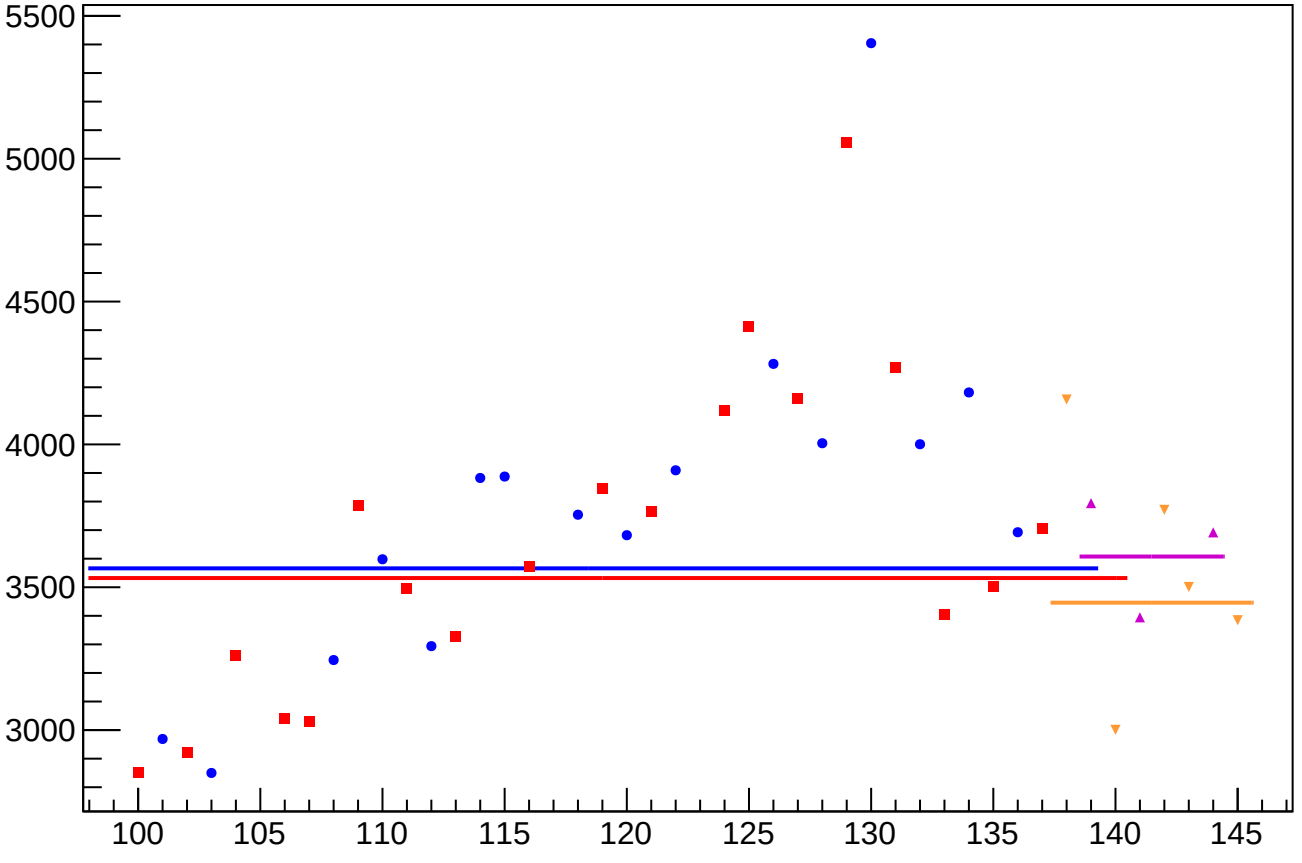
Right: 2.837+/-0.936 $\chi^2$/NDF: 35.0/34

In: 2.696+/-1.154 $\chi^2$/NDF:26.3/18

Out: 1.608+/-1.060 $\chi^2$/NDF:21.8/23

All: 2.105+/-0.780 $\chi^2$/NDF: 48.6/42

# diff_bpm16Y_rms vs Slug, Sign Corrected




Right In: 3566.150+/-0.951 $\chi^2$/NDF: 341105.5/15

Left Out: 3446.047+/-1.286 $\chi^2$/NDF:89047.9/4

Right Out: 3532.189+/-0.922 $\chi^2$/NDF: 278693.0/18

Left In: 3607.533+/-1.586 $\chi^2$/NDF:11864.5/2

Left: 3510.059+/-0.999 $\chi^2$/NDF: 107167.2/7

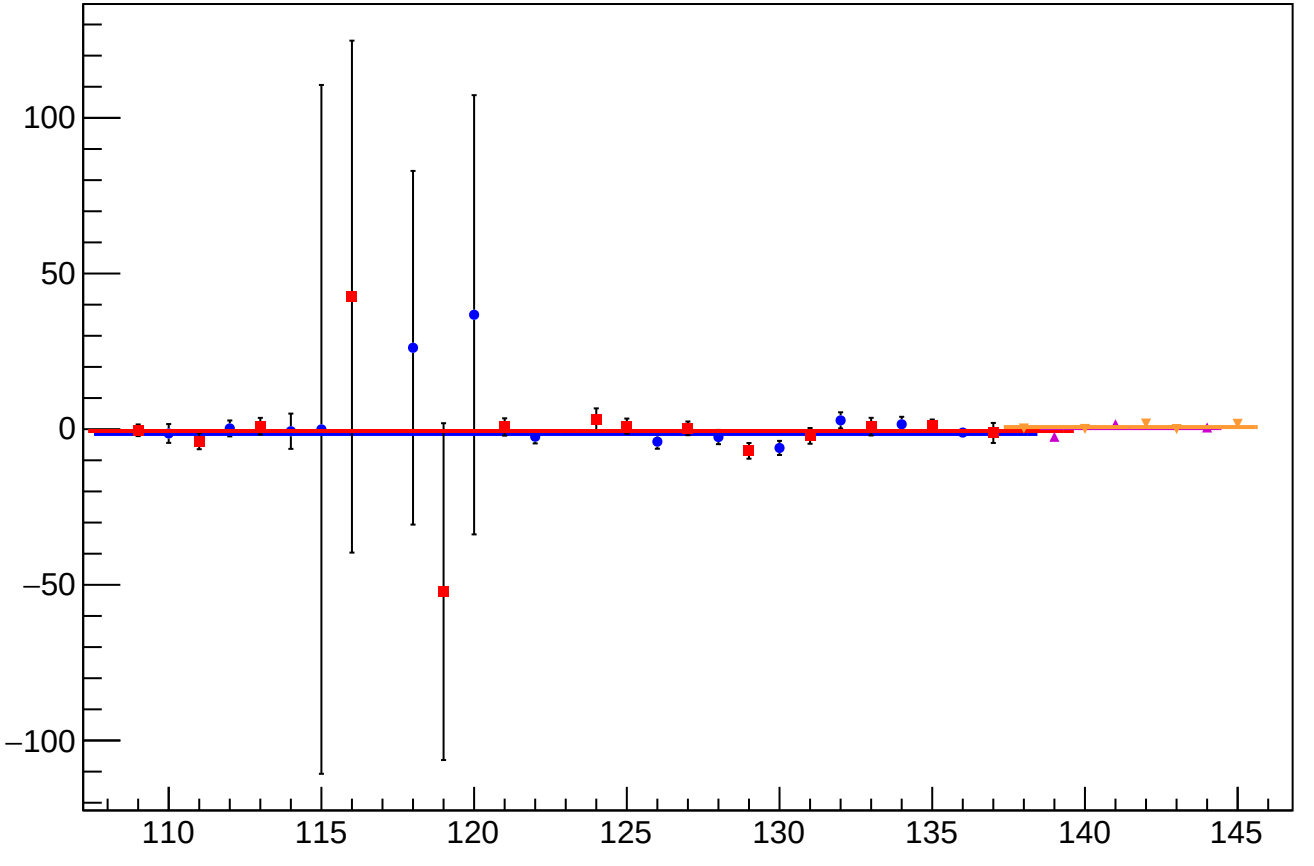
Right: 3548.642+/-0.662 $\chi^2$/NDF: 620455.5/34

In: 3577.095+/-0.816 $\chi^2$/NDF:353470.5/18

Out: 3502.922+/-0.749 $\chi^2$/NDF:370705.4/23

All: 3536.862+/-0.552 $\chi^2$/NDF: 728659.5/42

# diff_bpm1p02bX_mean vs Slug, Sign Corrected




Right In: -1.536+/-0.733 $\chi^2$/NDF: 11.1/12

Left Out: 0.682+/-0.516 $\chi^2$/NDF:2.4/4

Right Out: -0.588+/-0.717 $\chi^2$/NDF: 12.7/13

Left In: 0.345+/-0.616 $\chi^2$/NDF:6.2/2

Left: 0.543+/-0.396 $\chi^2$/NDF: 8.8/7

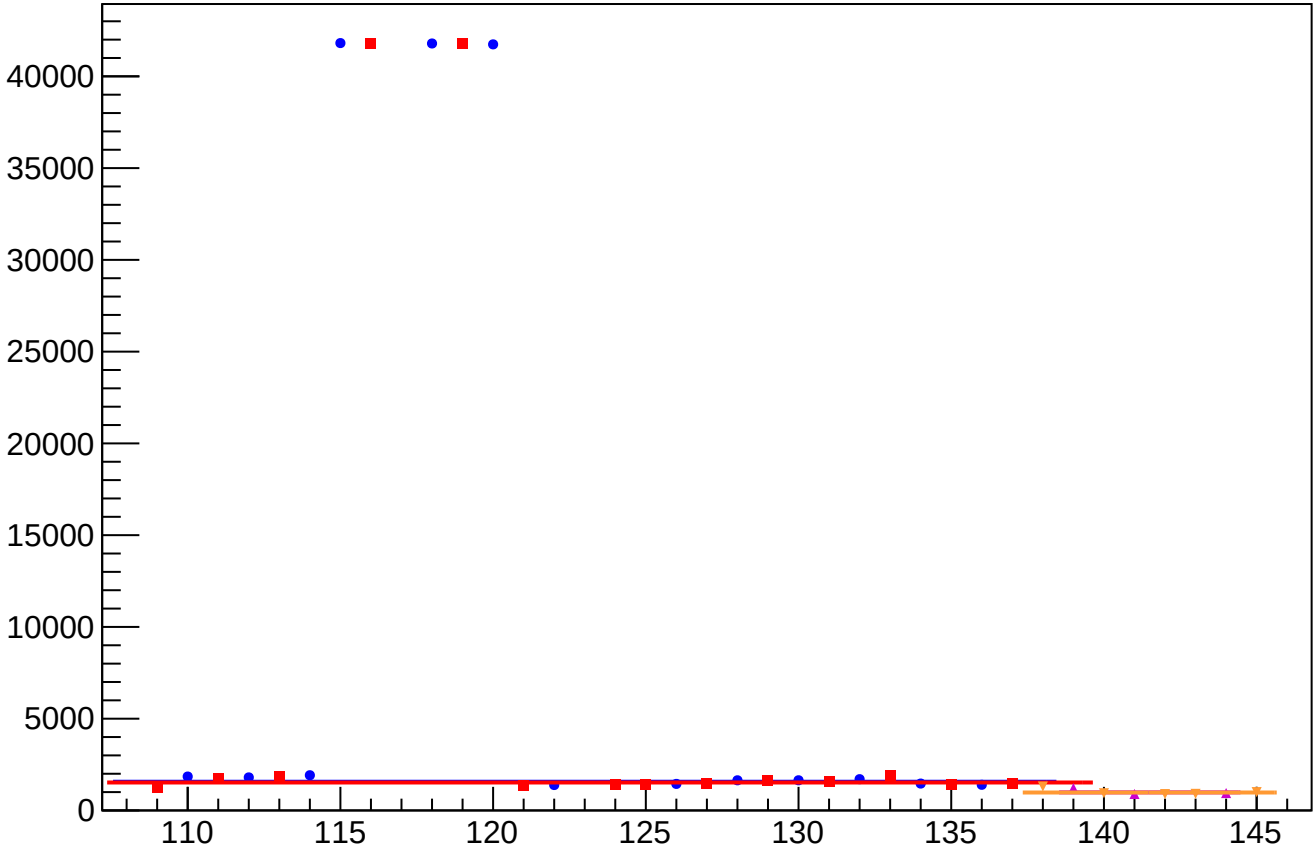
Right: -1.051+/-0.512 $\chi^2$/NDF: 24.6/26

In: -0.434+/-0.472 $\chi^2$/NDF:21.1/15

Out: 0.249+/-0.419 $\chi^2$/NDF:17.2/18

All: -0.052+/-0.313 $\chi^2$/NDF: 39.4/34

# diff_bpm1p02bX_rms vs Slug, Sign Corrected




Right In: 1564.307+/-0.518 $\chi^2$/NDF: 2016990.6/12

Left Out: 978.129+/-0.365 $\chi^2$/NDF:118253.3/4

Right Out: 1523.678+/-0.507 $\chi^2$/NDF: 1739658.0/13

Left In: 985.422+/-0.436 $\chi^2$/NDF:79820.8/2

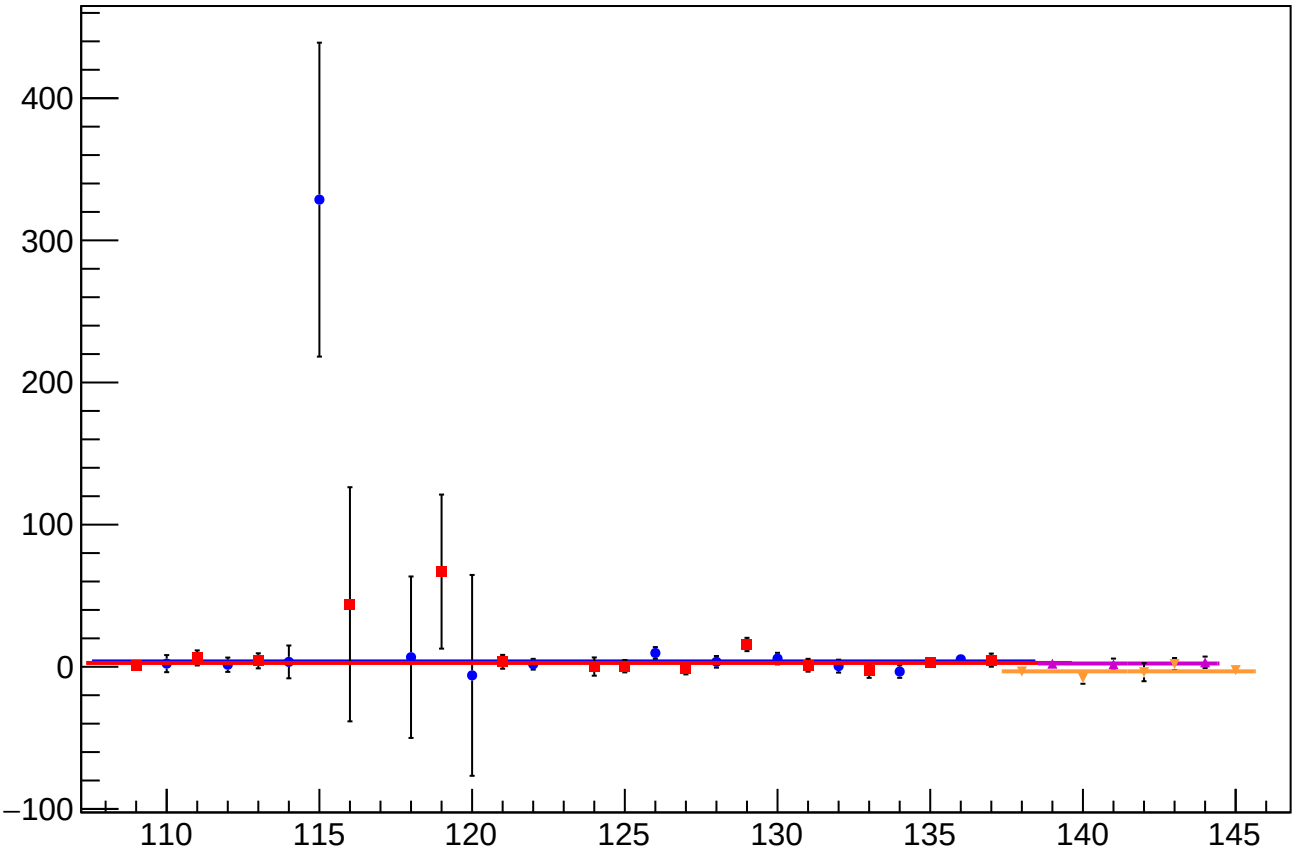
Left: 981.134+/-0.280 $\chi^2$/NDF: 198238.7/7

Right: 1543.555+/-0.362 $\chi^2$/NDF: 3759789.5/26

In: 1225.352+/-0.334 $\chi^2$/NDF:2827775.4/15

Out: 1164.248+/-0.296 $\chi^2$/NDF:2620556.9/18

All: 1191.186+/-0.221 $\chi^2$/NDF: 5467096.6/34




Right In: 3.777+/-1.248 $\chi^2$/NDF: 15.2/12

Left Out: -3.202+/-1.479 $\chi^2$/NDF:3.0/4

Right Out: 2.709+/-1.211 $\chi^2$/NDF: 13.6/13

Left In: 2.312+/-1.697 $\chi^2$/NDF:0.1/2

Left: -0.821+/-1.115 $\chi^2$/NDF: 9.1/7

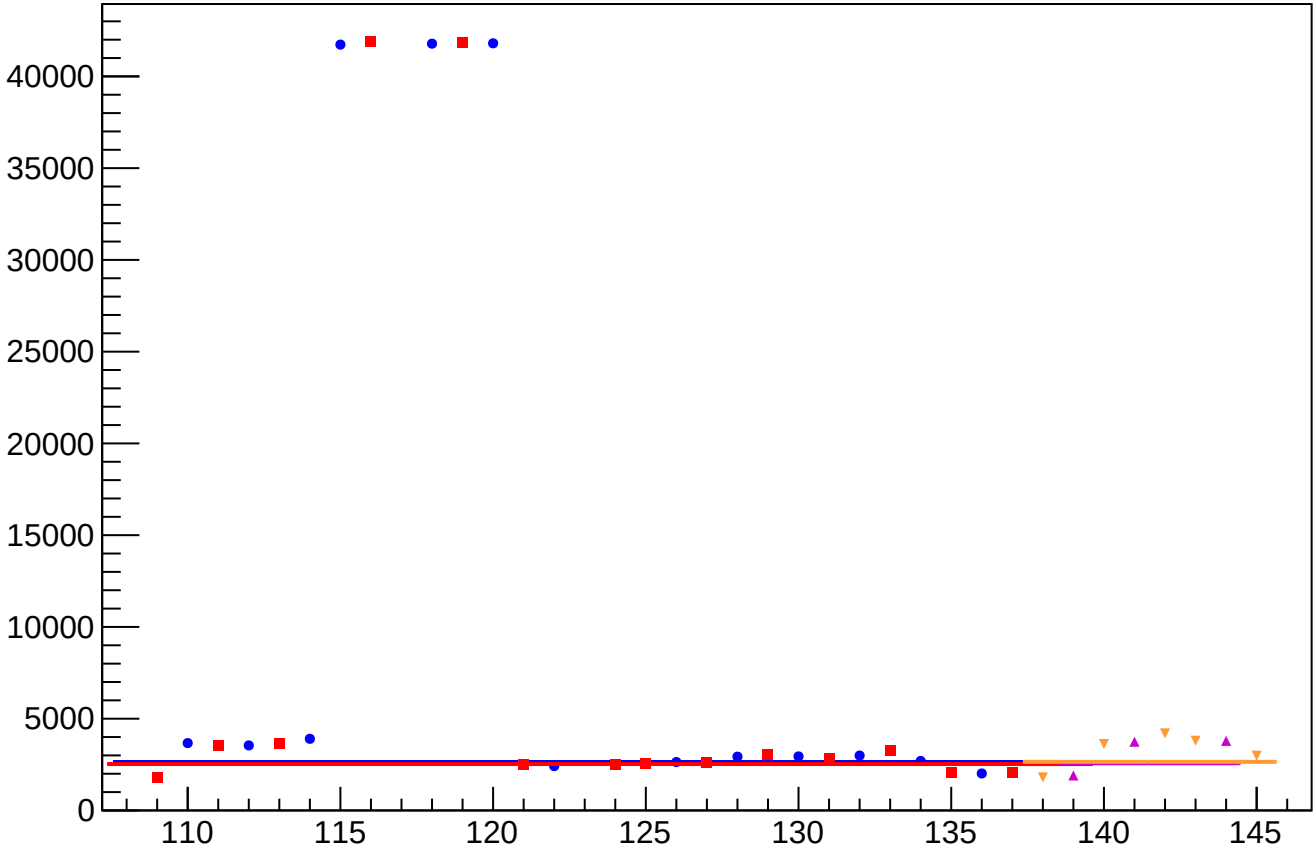
Right: 3.227+/-0.869 $\chi^2$/NDF: 29.2/26

In: 3.262+/-1.005 $\chi^2$/NDF:15.7/15

Out: 0.336+/-0.937 $\chi^2$/NDF:26.2/18

All: 1.696+/-0.685 $\chi^2$/NDF: 46.4/34

# diff_bpm1p02bY_rms vs Slug, Sign Corrected




Right In: 2639.943+/-0.883 $\chi^2$/NDF: 2173395.1/12

Left Out: 2648.502+/-1.046 $\chi^2$/NDF:733616.0/4

Right Out: 2529.018+/-0.856 $\chi^2$/NDF: 1949928.1/13

Left In: 2570.538+/-1.200 $\chi^2$/NDF:551806.8/2

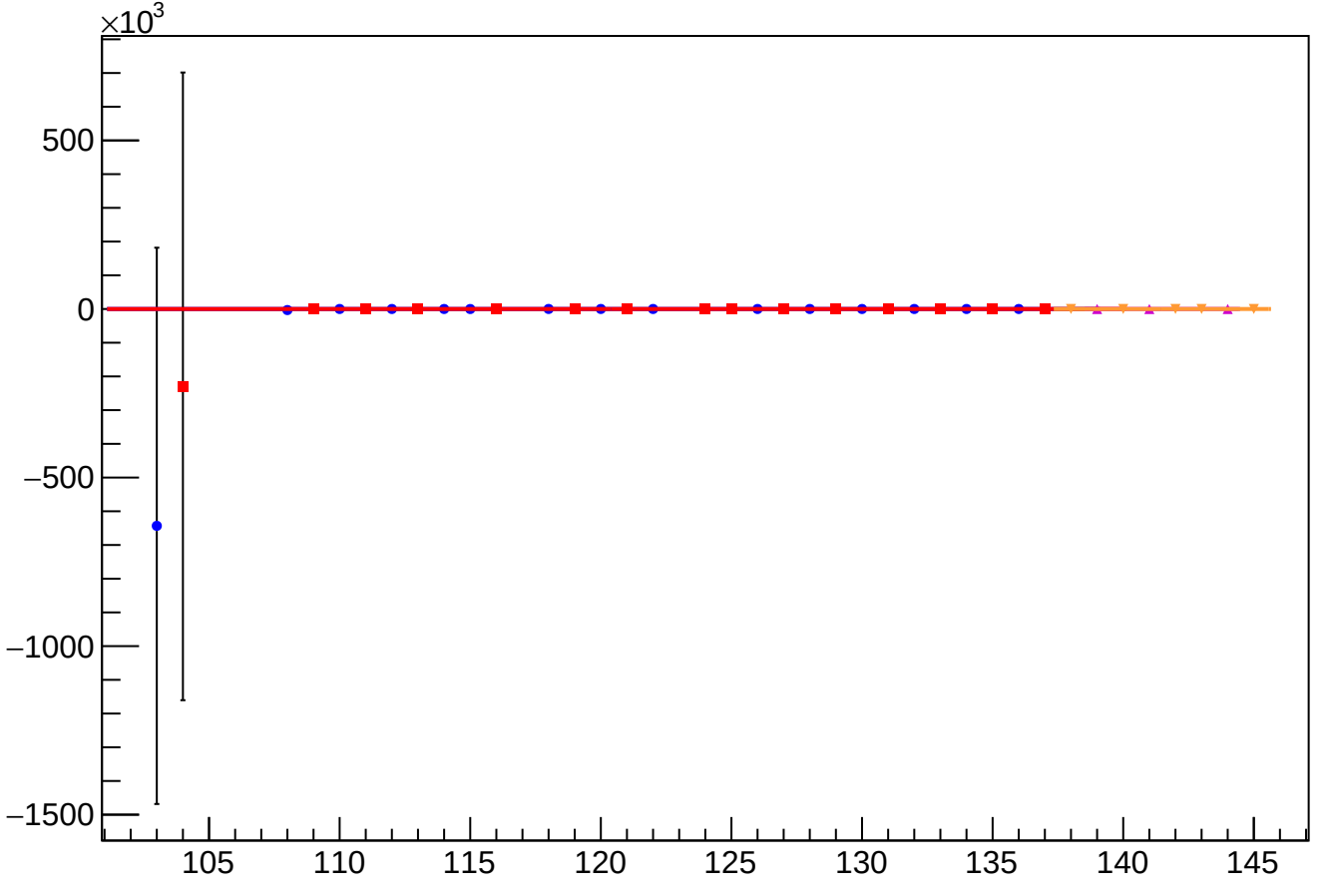
Left: 2614.837+/-0.788 $\chi^2$/NDF: 1287822.8/7

Right: 2582.794+/-0.615 $\chi^2$/NDF: 4131459.2/26

In: 2615.564+/-0.711 $\chi^2$/NDF:2727373.6/15

Out: 2576.973+/-0.663 $\chi^2$/NDF:2691359.2/18

All: 2594.908+/-0.485 $\chi^2$/NDF: 5420309.7/34




Right In: -1.215+/-1.125 $\chi^2$/NDF: 18.8/14

Left Out: -0.208+/-0.761 $\chi^2$/NDF:5.6/4

Right Out: 2.670+/-1.211 $\chi^2$/NDF: 14.4/14

Left In: 0.899+/-0.925 $\chi^2$/NDF:0.4/2

Left: 0.239+/-0.588 $\chi^2$/NDF: 6.8/7

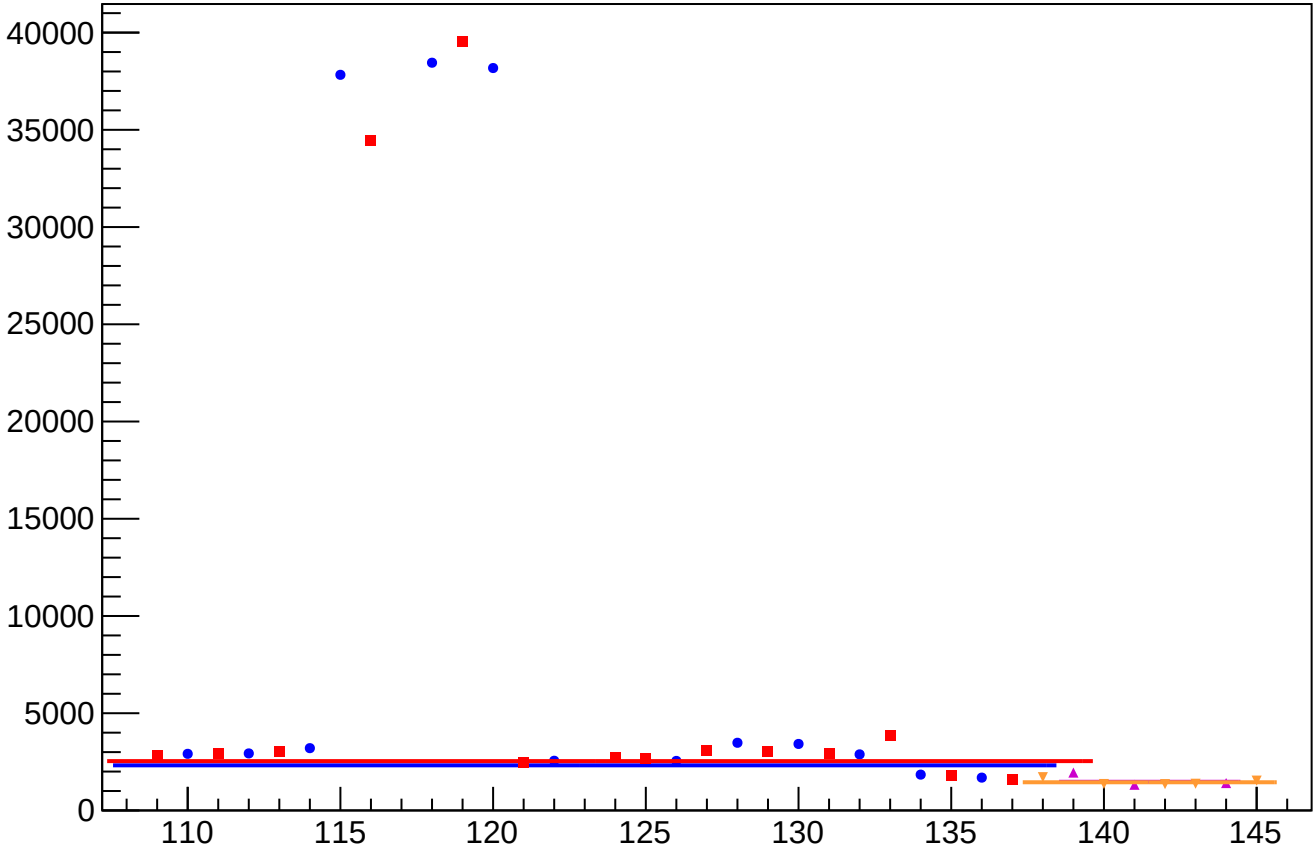
Right: 0.585+/-0.824 $\chi^2$/NDF: 38.7/29

In: 0.046+/-0.715 $\chi^2$/NDF:21.3/17

Out: 0.607+/-0.645 $\chi^2$/NDF:24.1/19

All: 0.356+/-0.479 $\chi^2$/NDF: 45.7/37

# diff_bpm1p03aX_rms vs Slug, Sign Corrected




Right In: 2320.446+/-0.796 $\chi^2$/NDF: 2461445.1/12

Left Out: 1449.740+/-0.538 $\chi^2$/NDF:57130.3/4

Right Out: 2537.615+/-0.856 $\chi^2$/NDF: 2038153.2/13

Left In: 1474.294+/-0.654 $\chi^2$/NDF:127354.2/2

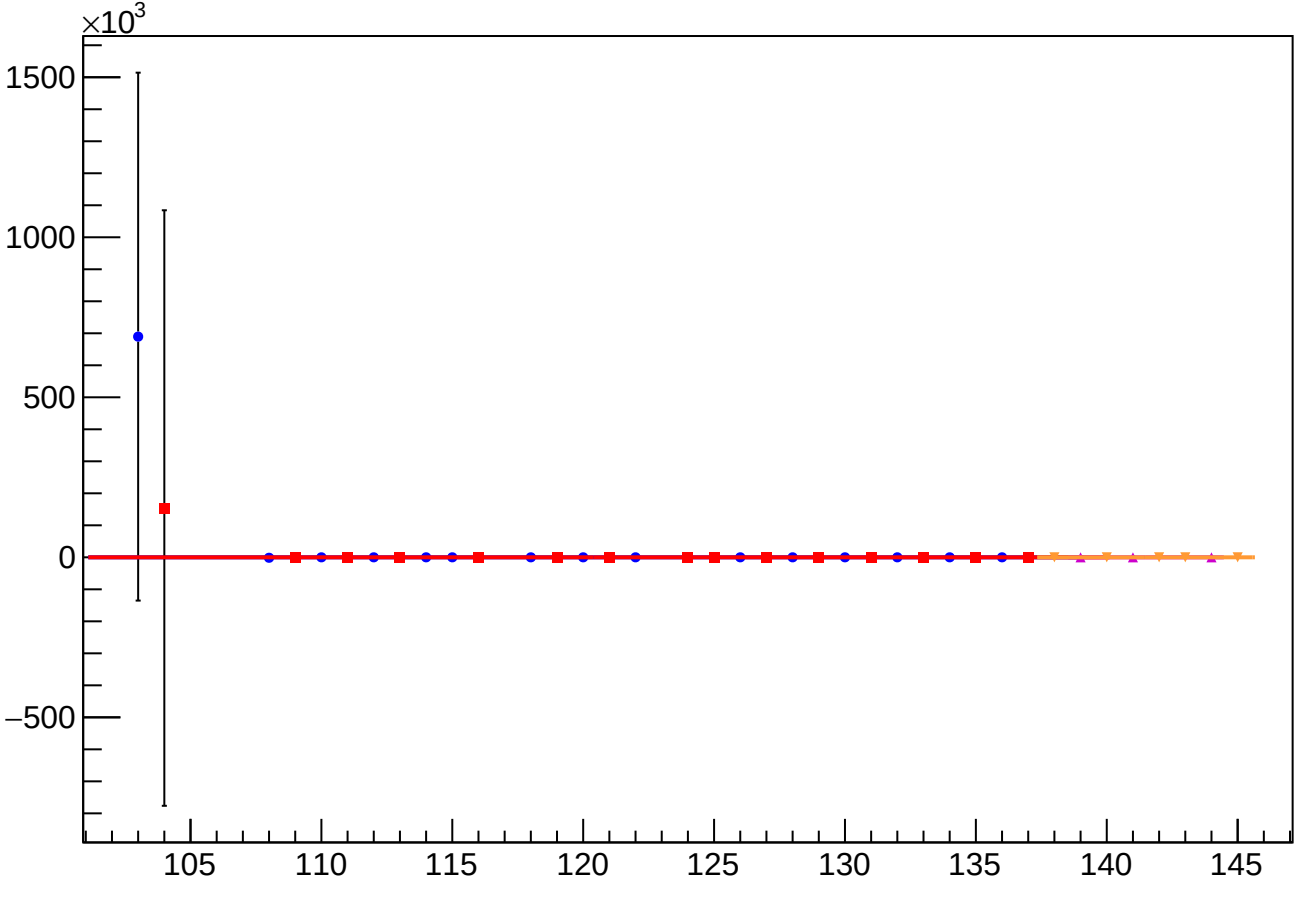
Left: 1459.653+/-0.416 $\chi^2$/NDF: 185324.3/7

Right: 2421.061+/-0.583 $\chi^2$/NDF: 4534110.8/26

In: 1815.611+/-0.505 $\chi^2$/NDF:3263501.3/15

Out: 1757.866+/-0.456 $\chi^2$/NDF:3251881.2/18

All: 1783.767+/-0.338 $\chi^2$/NDF: 6522582.6/34




Right In: 1.708+/-1.076 $\chi^2$/NDF: 5.0/14

Left Out: -1.710+/-1.011 $\chi^2$/NDF:4.8/4

Right Out: 1.893+/-1.052 $\chi^2$/NDF: 15.3/14

Left In: -0.127+/-1.005 $\chi^2$/NDF:0.6/2

Left: -0.914+/-0.713 $\chi^2$/NDF: 6.6/7

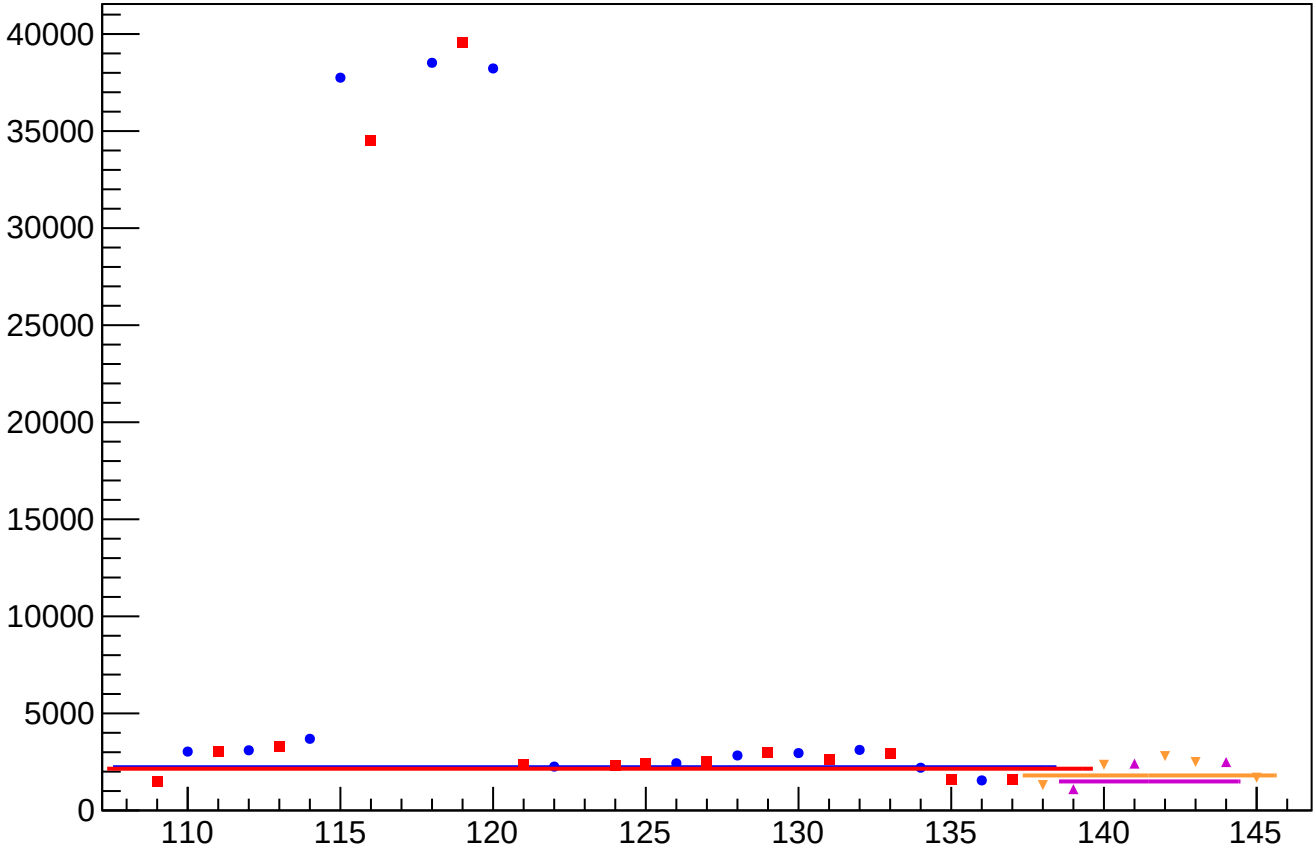
Right: 1.803+/-0.752 $\chi^2$/NDF: 20.3/29

In: 0.728+/-0.735 $\chi^2$/NDF:7.2/17

Out: 0.021+/-0.729 $\chi^2$/NDF:26.2/19

All: 0.372+/-0.517 $\chi^2$/NDF: 33.9/37

# diff_bpm1p03aY_rms vs Slug, Sign Corrected




Right In: 2226.944+/-0.761 $\chi^2$/NDF: 2522286.5/12

Left Out: 1803.622+/-0.715 $\chi^2$/NDF:524833.3/4

Right Out: 2150.841+/-0.744 $\chi^2$/NDF: 2231322.0/13

Left In: 1494.393+/-0.711 $\chi^2$/NDF:752276.2/2

Left: 1648.050+/-0.504 $\chi^2$/NDF: 1371168.1/7

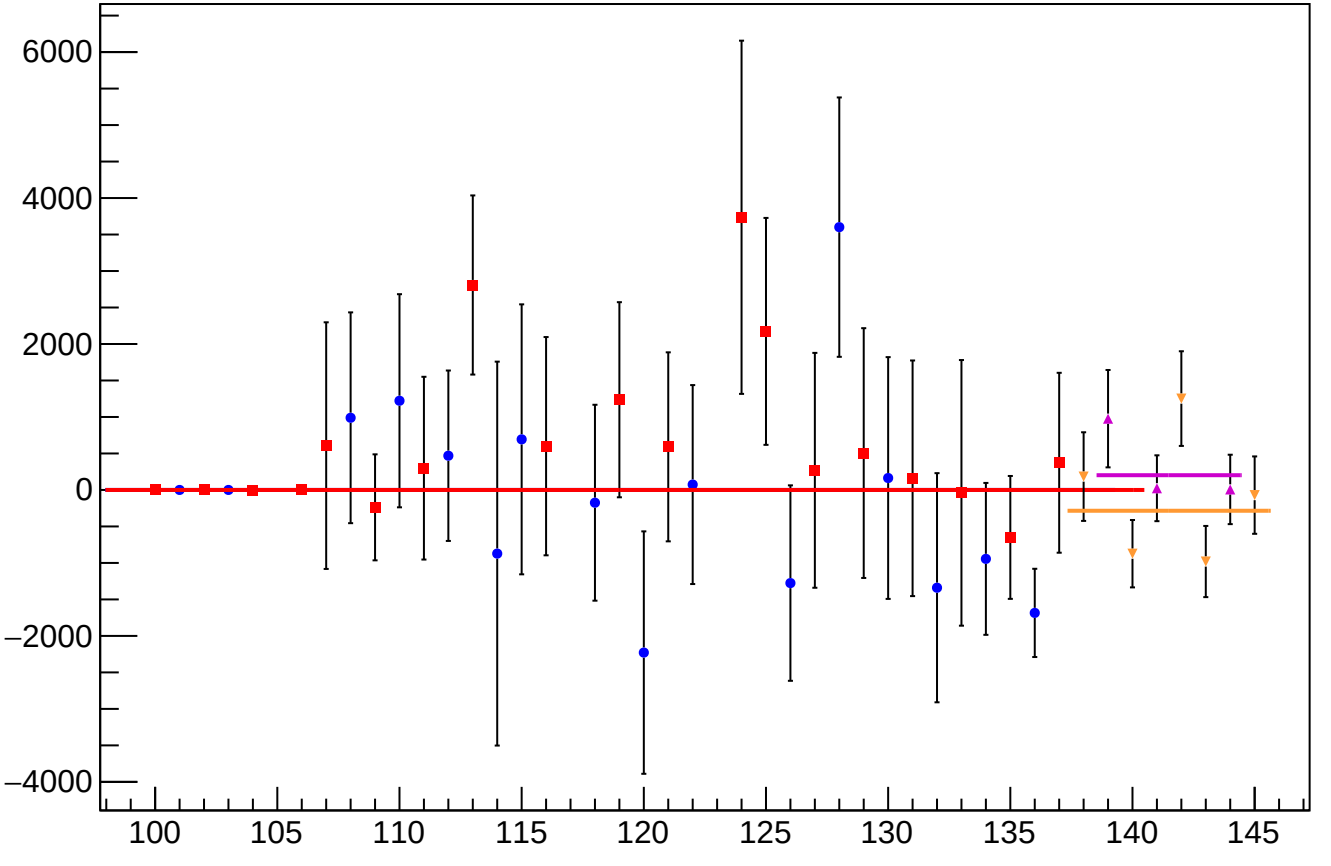
Right: 2188.011+/-0.532 $\chi^2$/NDF: 4758723.2/26

In: 1835.629+/-0.519 $\chi^2$/NDF:3769397.4/15

Out: 1970.445+/-0.515 $\chi^2$/NDF:2869408.9/18

All: 1903.556+/-0.366 $\chi^2$/NDF: 6672742.4/34

# diff_cav4bX_mean vs Slug, Sign Corrected




Right In: 0.255+/-0.356 $\chi^2$/NDF: 17.7/15

Left Out: -284.980+/-238.764 $\chi^2$/NDF:10.0/4

Right Out: -0.096+/-0.328 $\chi^2$/NDF: 15.4/18

Left In: 202.178+/-293.843 $\chi^2$/NDF:1.7/2

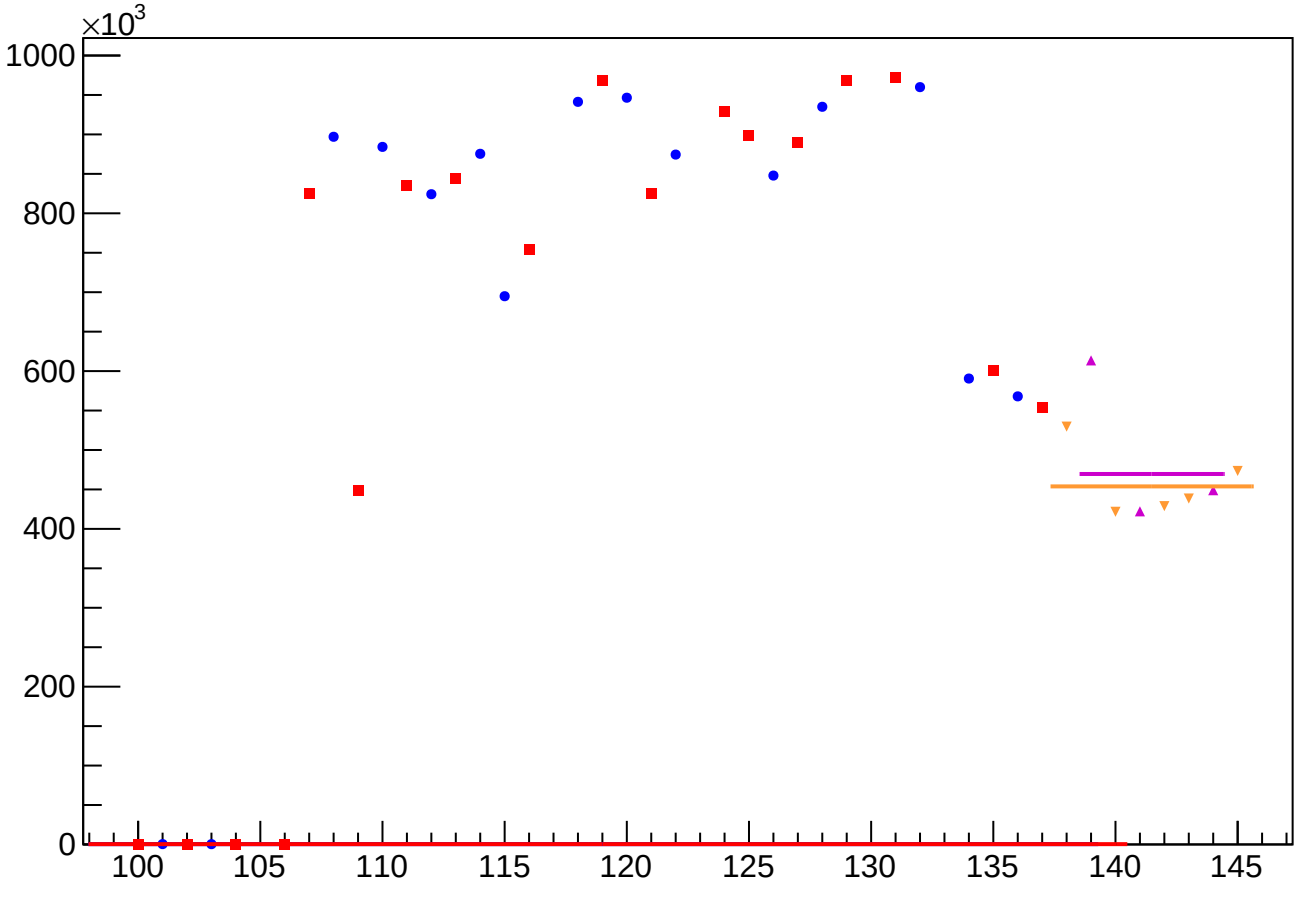
Left: -91.246+/-185.303 $\chi^2$/NDF: 13.4/7

Right: 0.065+/-0.241 $\chi^2$/NDF: 33.7/34

In: 0.256+/-0.356 $\chi^2$/NDF:19.9/18

Out: -0.096+/-0.328 $\chi^2$/NDF:26.9/23

All: 0.065+/-0.241 $\chi^2$/NDF: 47.3/42




Right In: 398.881+/-0.251 $\chi^2$/NDF: 8491830.9/14

Left Out: 453848.460+/-168.832 $\chi^2$/NDF:48543.8/4

Right Out: 393.240+/-0.232 $\chi^2$/NDF: 7648578.2/17

Left In: 469587.921+/-207.778 $\chi^2$/NDF:118881.1/2

Left: 460107.753+/-131.029 $\chi^2$/NDF: 170881.2/7

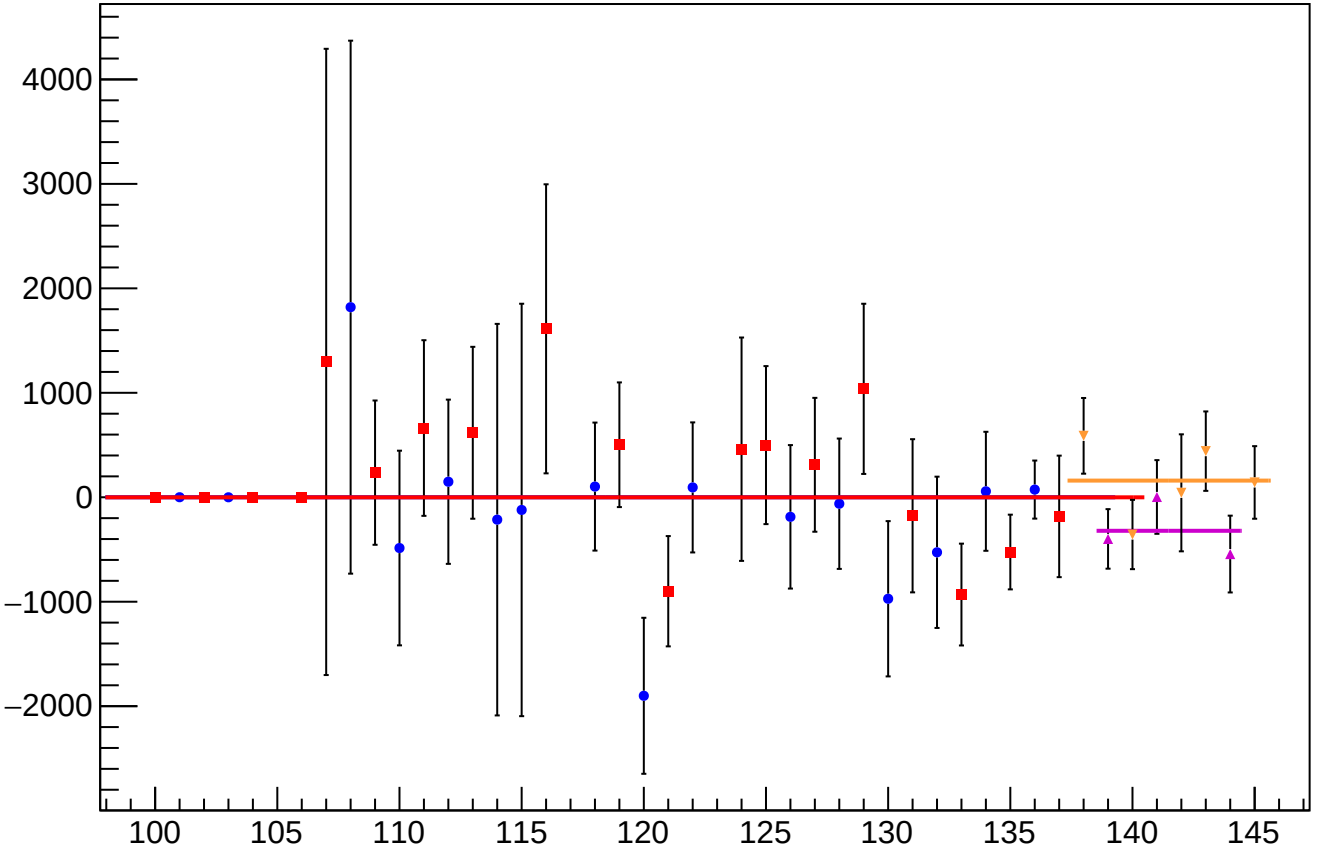
Right: 395.831+/-0.170 $\chi^2$/NDF: 16140681.1/32

In: 399.568+/-0.251 $\chi^2$/NDF:13709835.3/17

Out: 394.095+/-0.232 $\chi^2$/NDF:14910839.3/22

All: 396.609+/-0.170 $\chi^2$/NDF: 28620930.7/40

# diff_cav4bY_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.347 $\chi^2$/NDF: 10.5/15

Left Out: 159.621+/-168.799 $\chi^2$/NDF:4.4/4

Right Out: -0.599+/-0.324 $\chi^2$/NDF: 15.0/18

Left In: -321.066+/-189.835 $\chi^2$/NDF:1.3/2

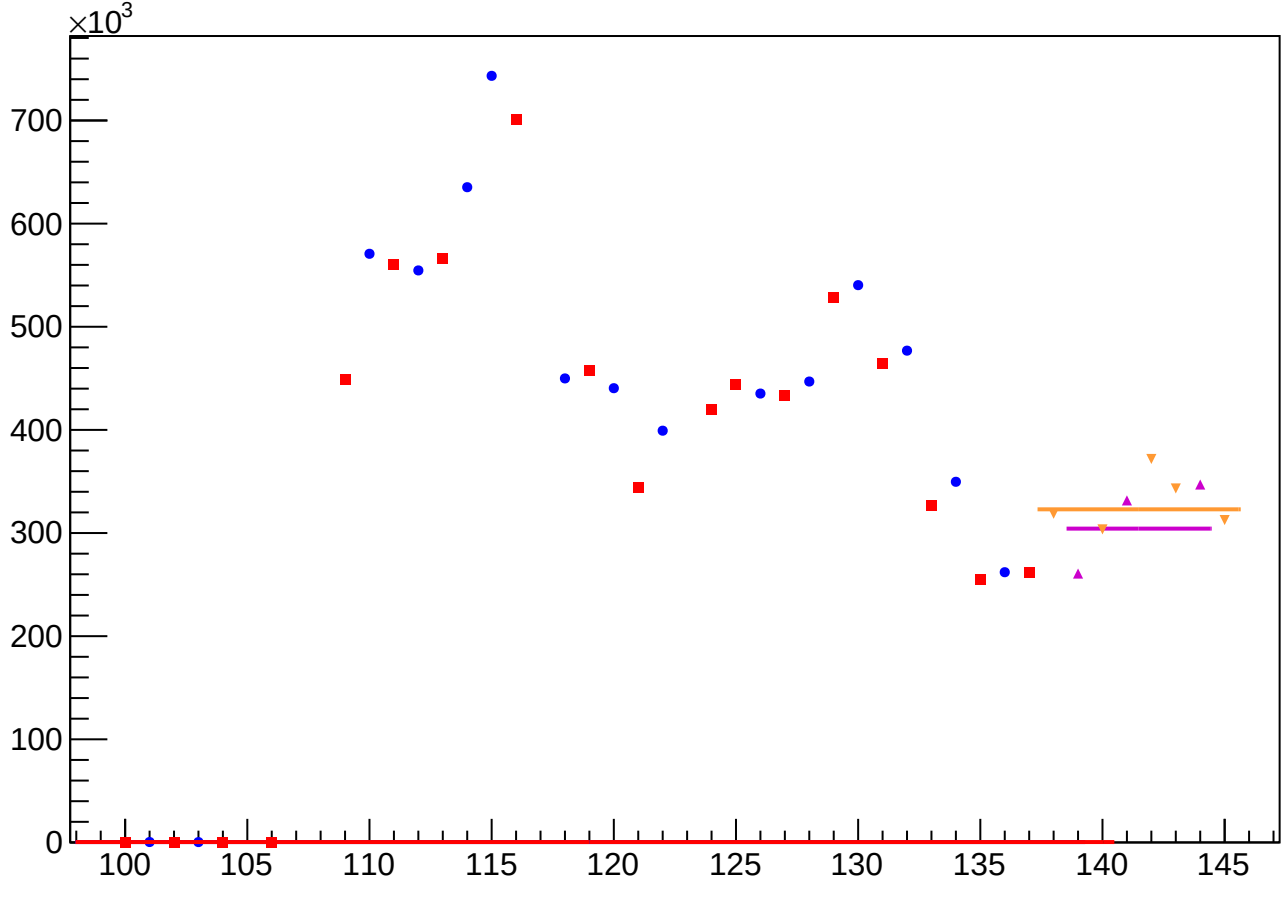
Left: -52.623+/-126.143 $\chi^2$/NDF: 9.3/7

Right: -0.330+/-0.237 $\chi^2$/NDF: 27.0/34

In: -0.022+/-0.347 $\chi^2$/NDF:14.6/18

Out: -0.598+/-0.324 $\chi^2$/NDF:20.3/23

All: -0.330+/-0.237 $\chi^2$/NDF: 36.4/42




Right In: 390.276+/-0.245 $\chi^2$/NDF: 11132240.7/14

Left Out: 322982.063+/-119.359 $\chi^2$/NDF:29810.3/4

Right Out: 387.984+/-0.229 $\chi^2$/NDF: 11074302.3/17

Left In: 304277.252+/-134.234 $\chi^2$/NDF:85829.0/2

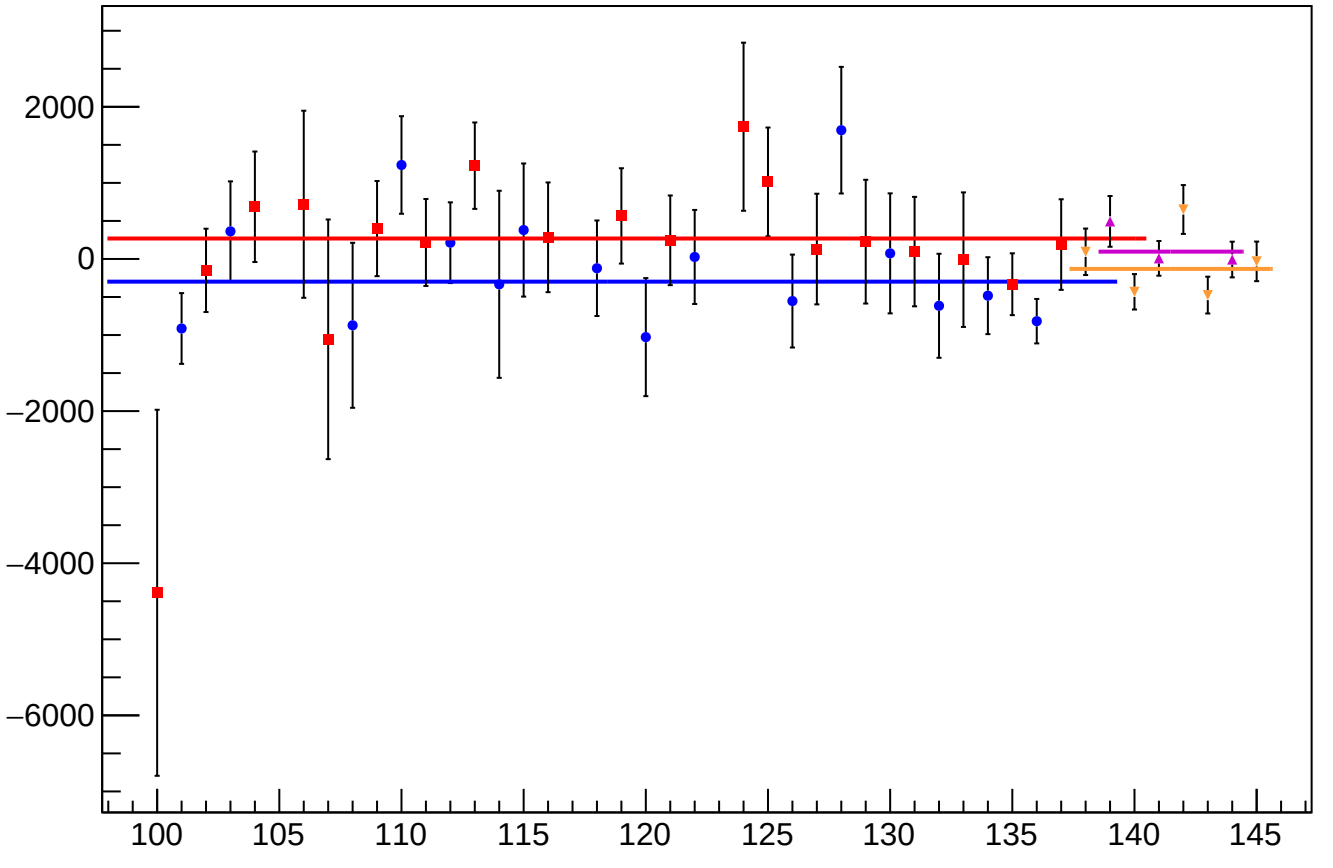
Left: 314723.090+/-89.197 $\chi^2$/NDF: 126482.9/7

Right: 389.050+/-0.167 $\chi^2$/NDF: 22206589.6/32

In: 391.292+/-0.245 $\chi^2$/NDF:16343121.5/17

Out: 389.171+/-0.229 $\chi^2$/NDF:18408837.7/22

All: 390.158+/-0.167 $\chi^2$/NDF: 34751999.1/40




Right In: -298.263+/-147.367 $\chi^2$/NDF: 21.2/15

Left Out: -130.561+/-118.918 $\chi^2$/NDF:10.3/4

Right Out: 268.892+/-156.582 $\chi^2$/NDF: 13.9/18

Left In: 96.238+/-146.861 $\chi^2$/NDF:1.8/2

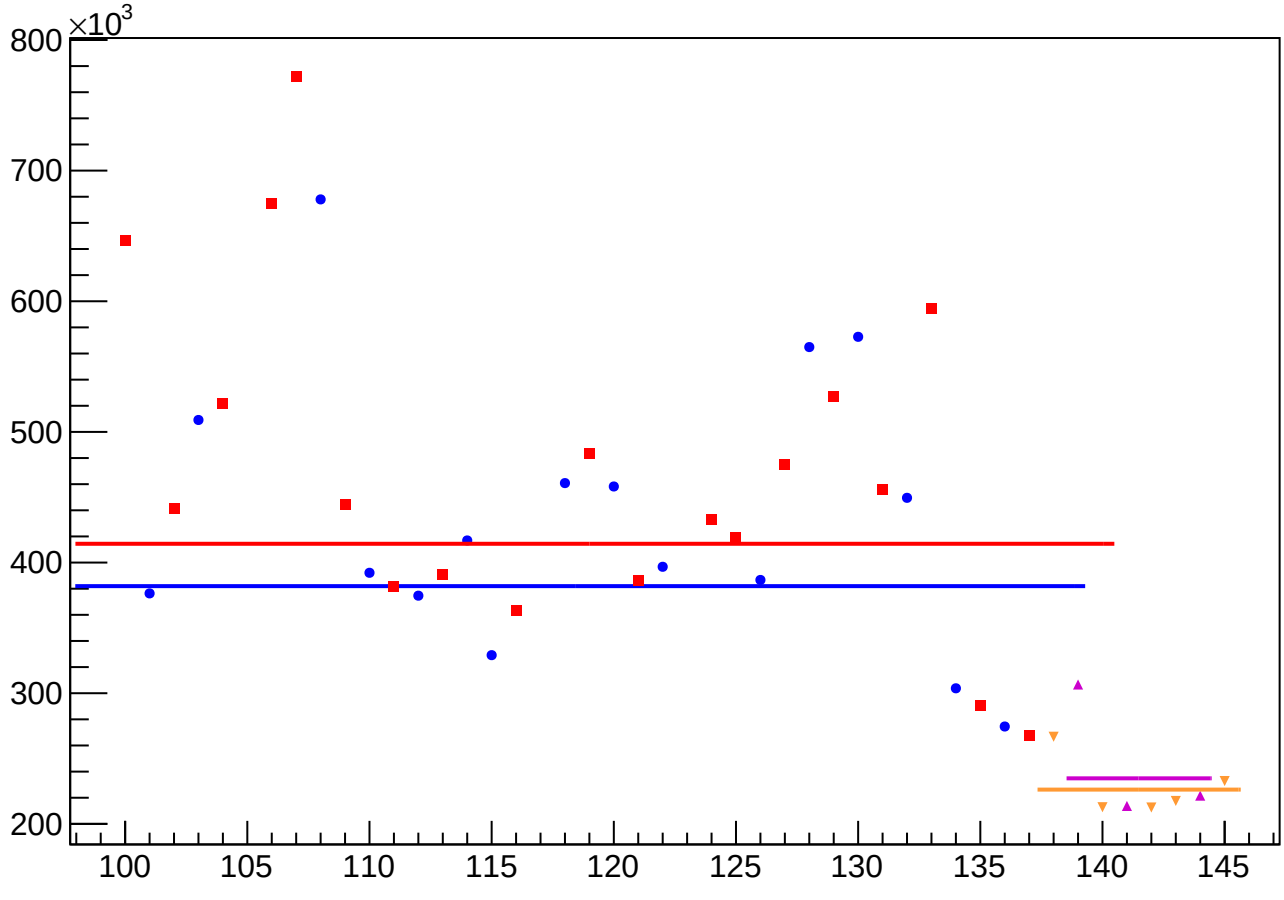
Left: -40.746+/-92.419 $\chi^2$/NDF: 13.5/7

Right: -31.865+/-107.314 $\chi^2$/NDF: 42.0/34

In: -100.334+/-104.025 $\chi^2$/NDF:26.5/18

Out: 15.557+/-94.703 $\chi^2$/NDF:28.3/23

All: -36.964+/-70.029 $\chi^2$/NDF: 55.5/42




Right In: 381960.471+/-104.223 $\chi^2$/NDF: 836441.6/15

Left Out: 226229.014+/-84.088 $\chi^2$/NDF:49282.8/4

Right Out: 414378.043+/-110.748 $\chi^2$/NDF: 760082.5/18

Left In: 234850.778+/-103.847 $\chi^2$/NDF:116261.3/2

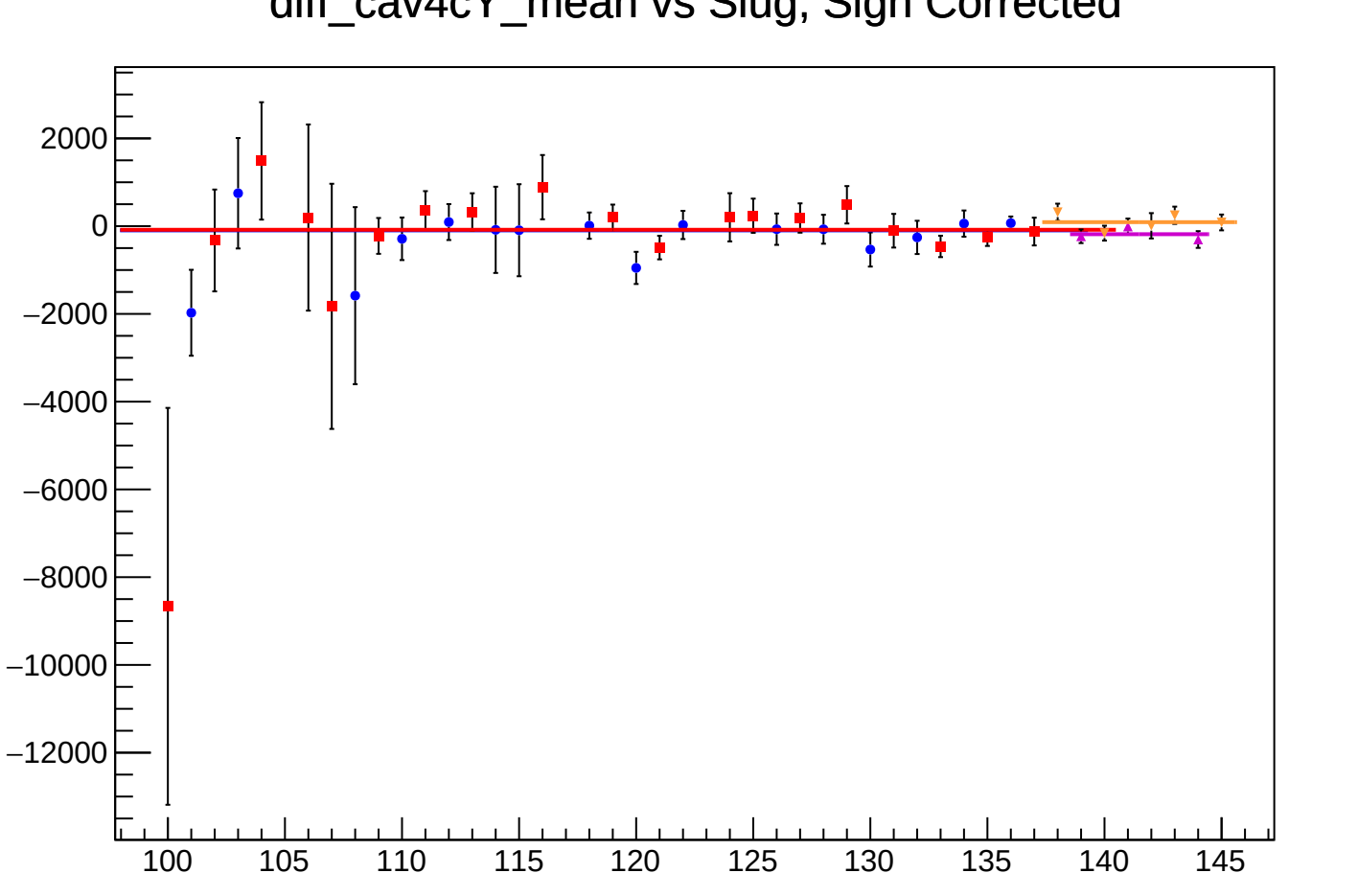
Left: 229643.337+/-65.350 $\chi^2$/NDF: 169707.4/7

Right: 397186.164+/-75.899 $\chi^2$/NDF: 1641963.2/34

In: 308139.404+/-73.563 $\chi^2$/NDF:1952457.7/18

Out: 295031.091+/-66.971 $\chi^2$/NDF:2640156.9/23

All: 300971.697+/-49.523 $\chi^2$/NDF: 4609976.




Right In: -95.850+/-88.267 $\chi^2$/NDF: 13.7/15

Left Out: 91.064+/-87.921 $\chi^2$/NDF:4.2/4

Right Out: -82.750+/-87.316 $\chi^2$/NDF: 19.1/18

Left In: -183.655+/-100.540 $\chi^2$/NDF:1.4/2

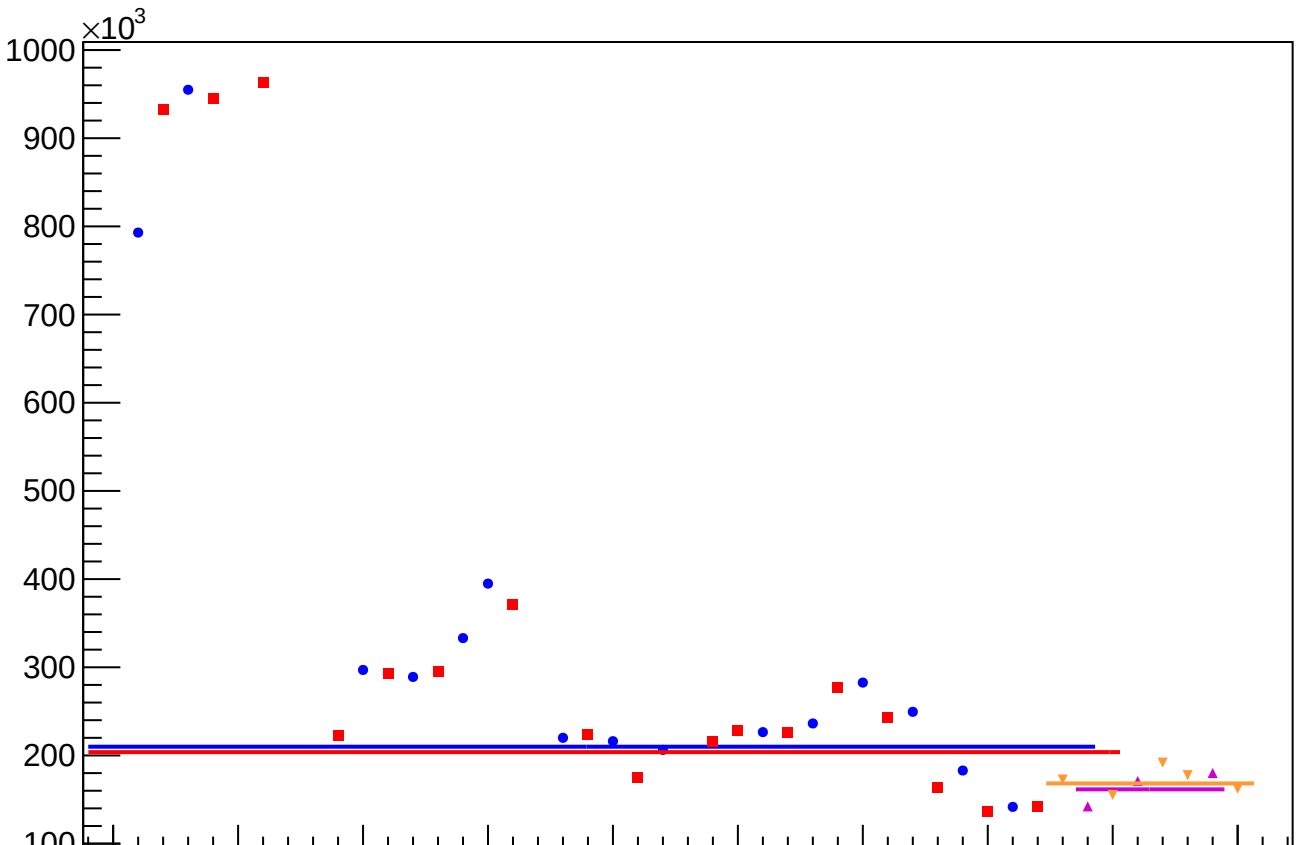
Left: -27.982+/-66.184 $\chi^2$/NDF: 9.9/7

Right: -89.229+/-62.075 $\chi^2$/NDF: 32.8/34

In: -134.069+/-66.331 $\chi^2$/NDF:15.5/18

Out: 3.557+/-61.954 $\chi^2$/NDF:25.3/23

All: -60.566+/-45.277 $\chi^2$/NDF: 43.1/42




Right In: 209929.195+/-62.523 $\chi^2$/NDF: 1959897.2/14

Left Out: 168276.710+/-62.169 $\chi^2$/NDF:32881.8/4

Right Out: 203793.382+/-61.895 $\chi^2$/NDF: 2070478.1/16

Left In: 161559.746+/-71.093 $\chi^2$/NDF:54902.1/2

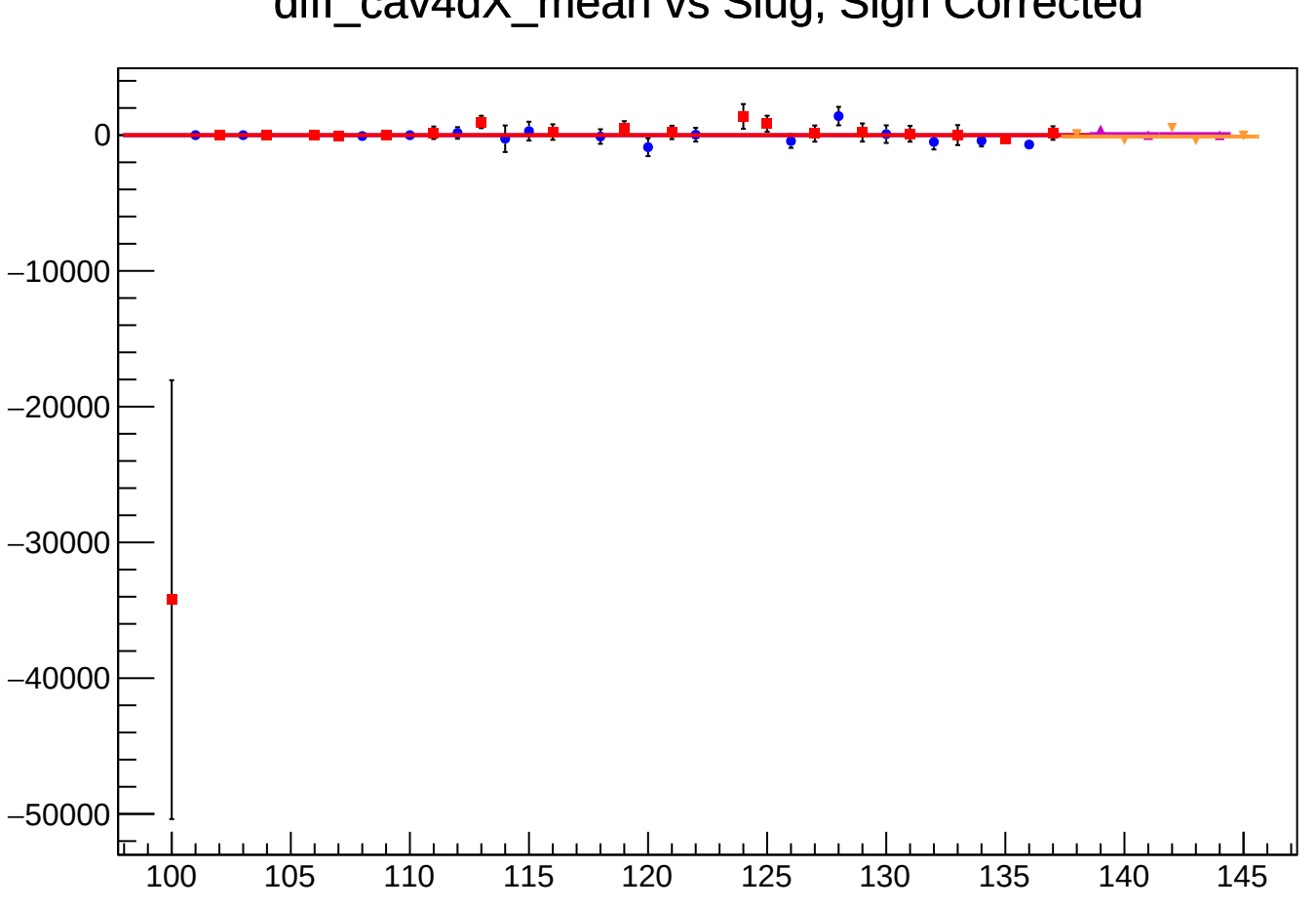
Left: 165365.989+/-46.799 $\chi^2$/NDF: 92842.4/7

Right: 206830.314+/-43.987 $\chi^2$/NDF: 4035239.4/31

In: 188834.102+/-46.949 $\chi^2$/NDF:2275821.0/17

Out: 186113.695+/-43.863 $\chi^2$/NDF:2267268.1/21

All: 187381.547+/-32.051 $\chi^2$/NDF: 4544881.8




Right In: -0.035+/-0.172 $\chi^2$/NDF: 18.1/15

Left Out: -106.856+/-98.953 $\chi^2$/NDF:10.3/4

Right Out: 0.355+/-0.160 $\chi^2$/NDF: 16.5/18

Left In: 82.054+/-122.330 $\chi^2$/NDF:1.8/2

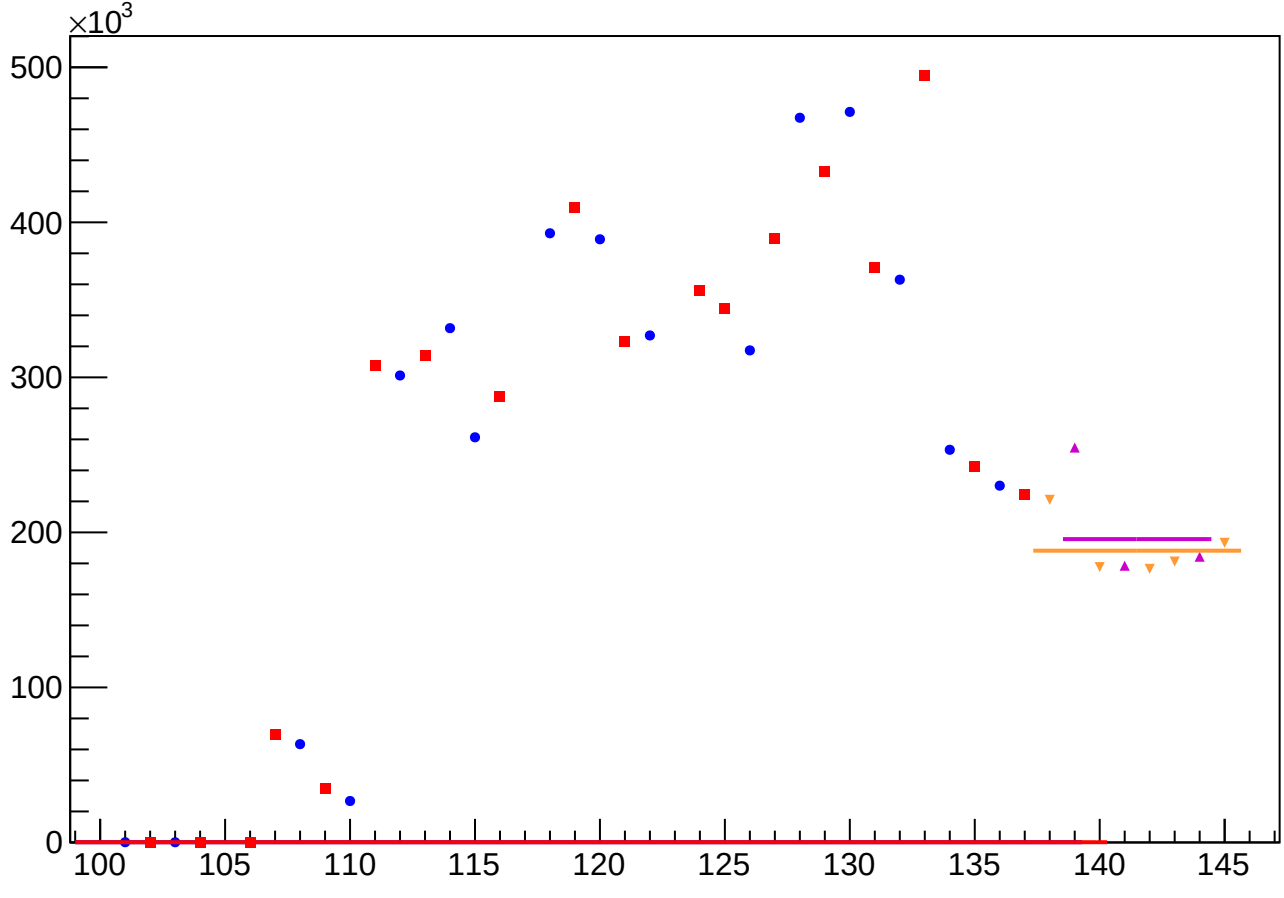
Left: -32.137+/-76.934 $\chi^2$/NDF: 13.6/7

Right: 0.174+/-0.117 $\chi^2$/NDF: 37.4/34

In: -0.035+/-0.172 $\chi^2$/NDF:20.4/18

Out: 0.355+/-0.160 $\chi^2$/NDF:28.0/23

All: 0.174+/-0.117 $\chi^2$/NDF: 51.1/42




Right In: 149.092+/-0.122 $\chi^2$/NDF: 11301940.9/15

Left Out: 188213.674+/-69.970 $\chi^2$/NDF:46912.1/4

Right Out: 149.379+/-0.113 $\chi^2$/NDF: 11288711.4/17

Left In: 195668.078+/-86.500 $\chi^2$/NDF:113903.1/2

Left: 191162.067+/-54.400 $\chi^2$/NDF: 165304.4/7

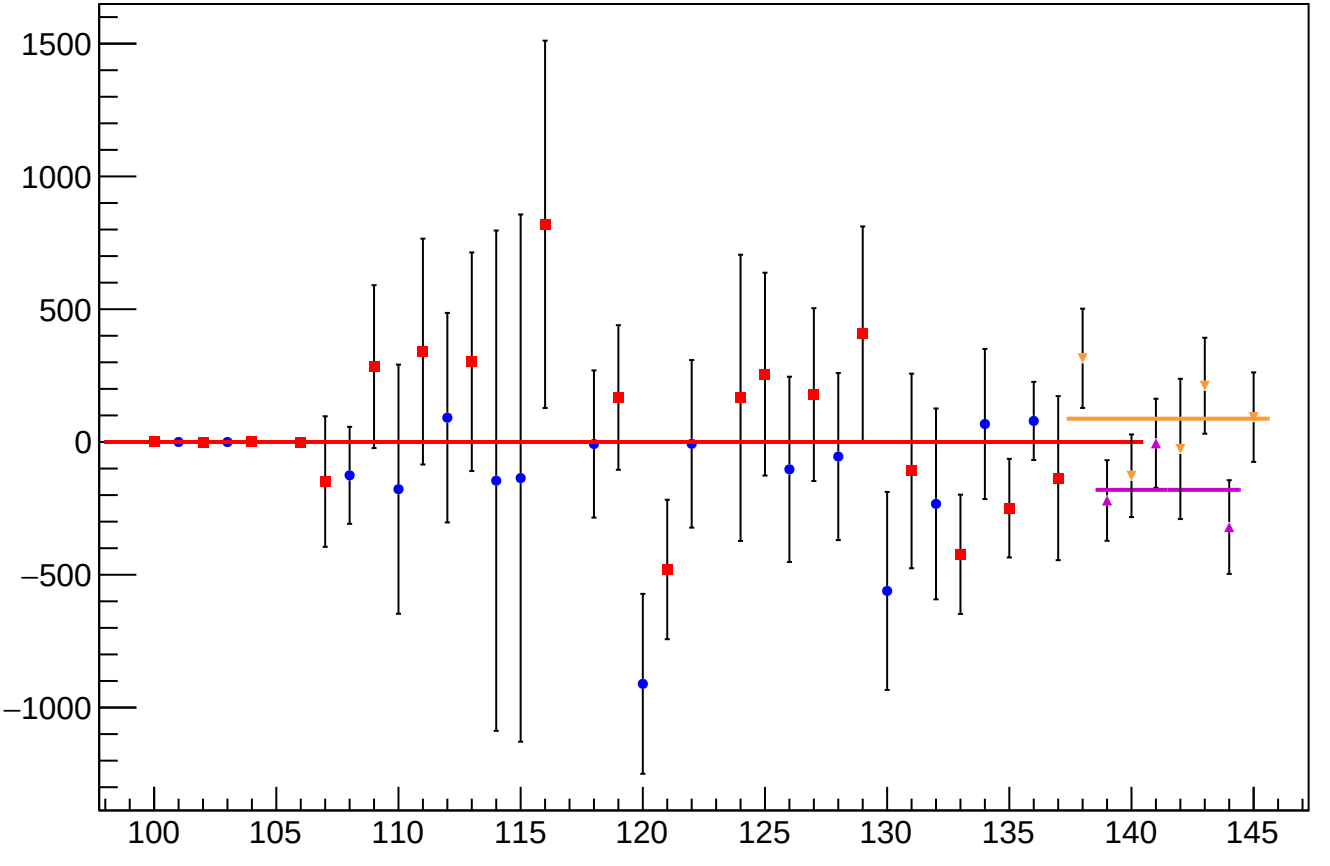
Right: 149.246+/-0.083 $\chi^2$/NDF: 22590655.3/33

In: 149.480+/-0.122 $\chi^2$/NDF:16524940.8/18

Out: 149.871+/-0.113 $\chi^2$/NDF:18559752.4/22

All: 149.690+/-0.083 $\chi^2$/NDF: 35084698.8/41

# diff_cav4dY_mean vs Slug, Sign Corrected




Right In: -0.068+/-0.177 $\chi^2$/NDF: 11.2/15

Left Out: 87.763+/-81.633 $\chi^2$/NDF:4.0/4

Right Out: -0.126+/-0.166 $\chi^2$/NDF: 15.2/18

Left In: -180.225+/-94.867 $\chi^2$/NDF:1.8/2

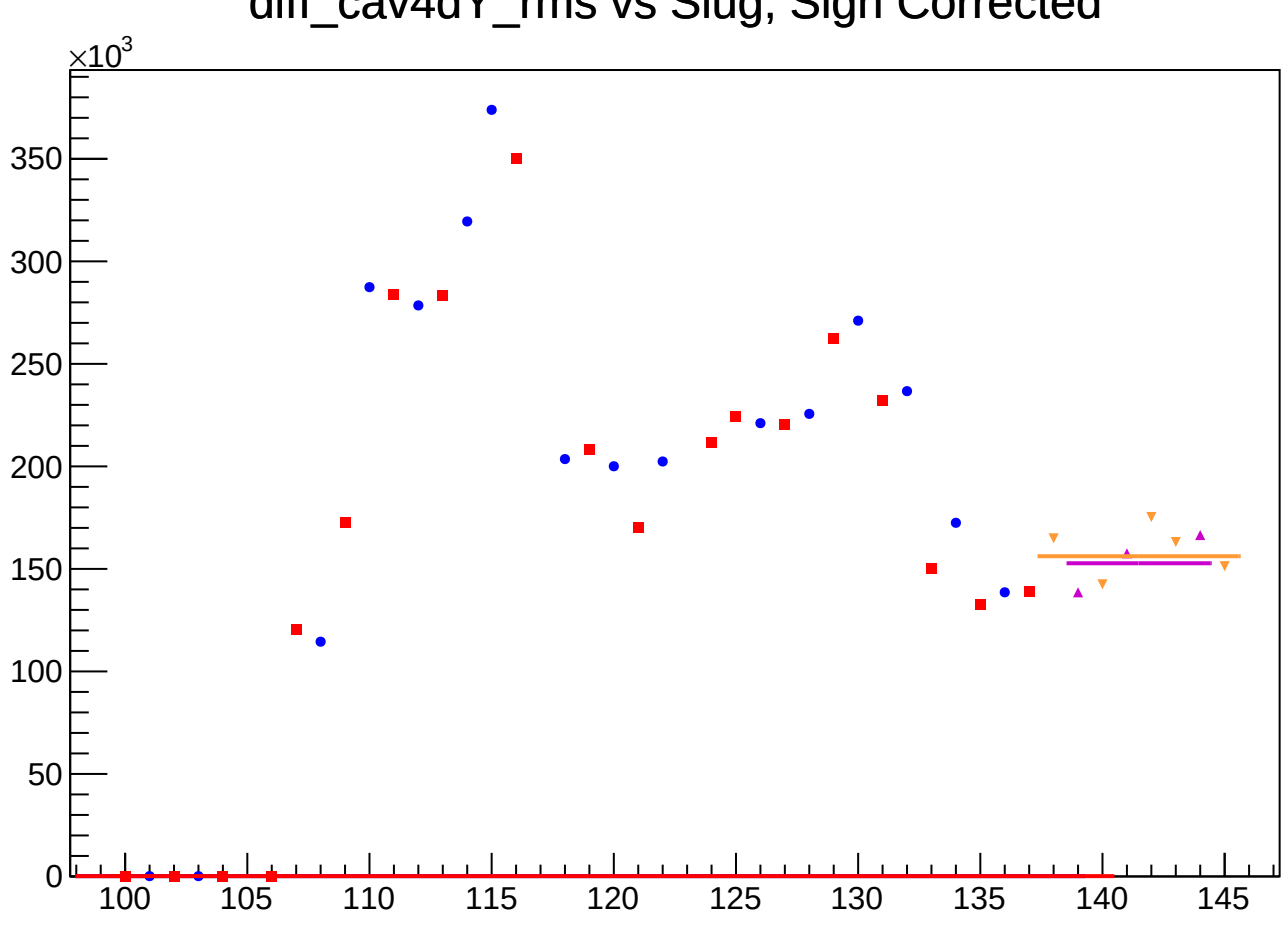
Left: -26.250+/-61.878 $\chi^2$/NDF: 10.4/7

Right: -0.099+/-0.121 $\chi^2$/NDF: 26.5/34

In: -0.069+/-0.177 $\chi^2$/NDF:16.6/18

Out: -0.126+/-0.166 $\chi^2$/NDF:20.4/23

All: -0.099+/-0.121 $\chi^2$/NDF: 37.1/42




Right In: 153.460+/-0.125 $\chi^2$/NDF: 11904914.7/15

Left Out: 156178.564+/-57.723 $\chi^2$/NDF:34955.4/4

Right Out: 156.158+/-0.118 $\chi^2$/NDF: 11330885.6/18

Left In: 152750.940+/-67.081 $\chi^2$/NDF:31254.0/2

Left: 154720.316+/-43.754 $\chi^2$/NDF: 67709.5/7

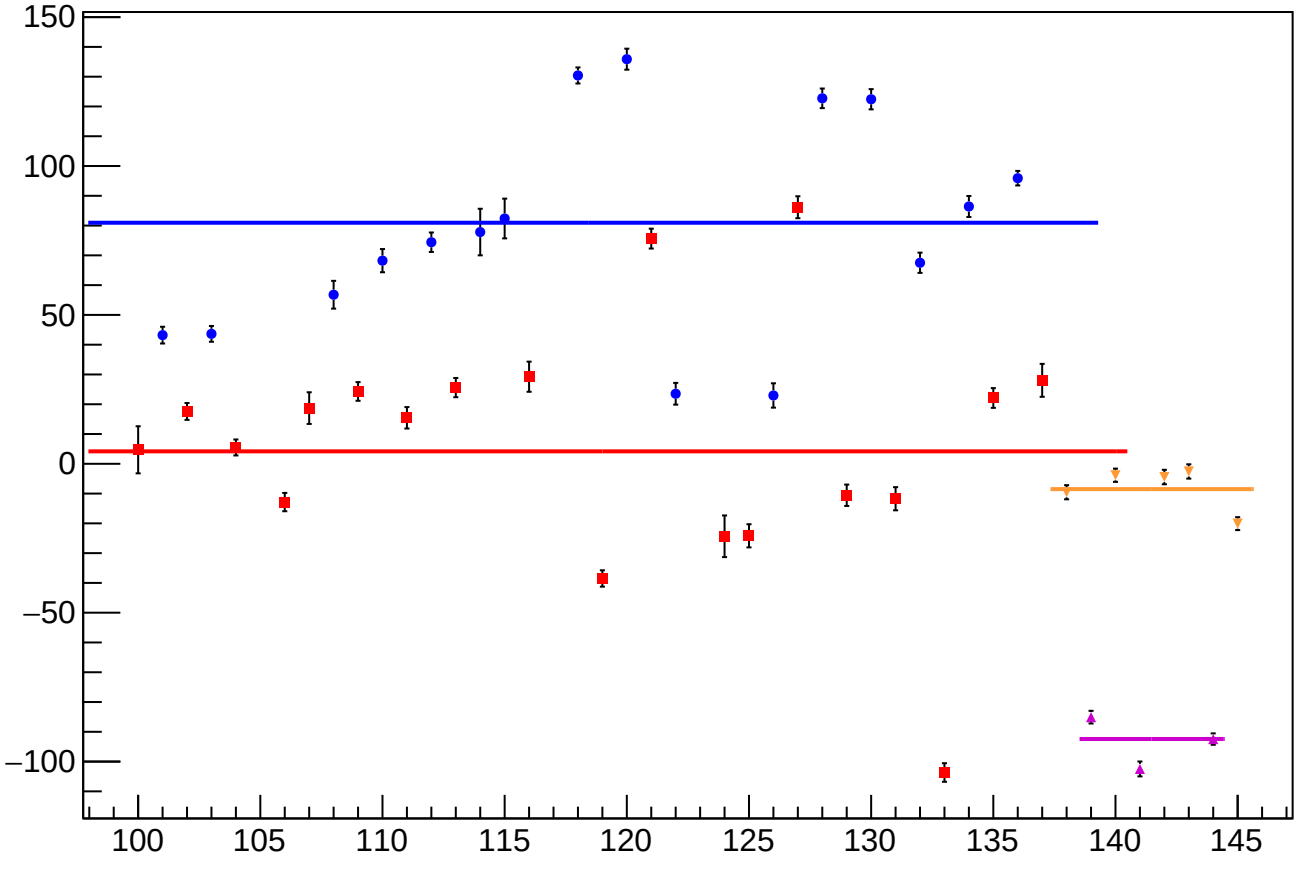
Right: 154.893+/-0.086 $\chi^2$/NDF: 23236046.4/34

In: 153.993+/-0.125 $\chi^2$/NDF:17110985.4/18

Out: 156.807+/-0.118 $\chi^2$/NDF:18671692.2/23

All: 155.487+/-0.086 $\chi^2$/NDF: 35782945.4/42

# diff_bpm0i01X_mean vs Slug, Sign Corrected




Right In: 80.955+/-0.851 $\chi^2$/NDF: 1813.9/15

Left Out: -8.500+/-1.035 $\chi^2$/NDF:42.0/4

Right Out: 4.183+/-0.820 $\chi^2$/NDF: 2719.7/18

Left In: -92.413+/-1.237 $\chi^2$/NDF:28.0/2

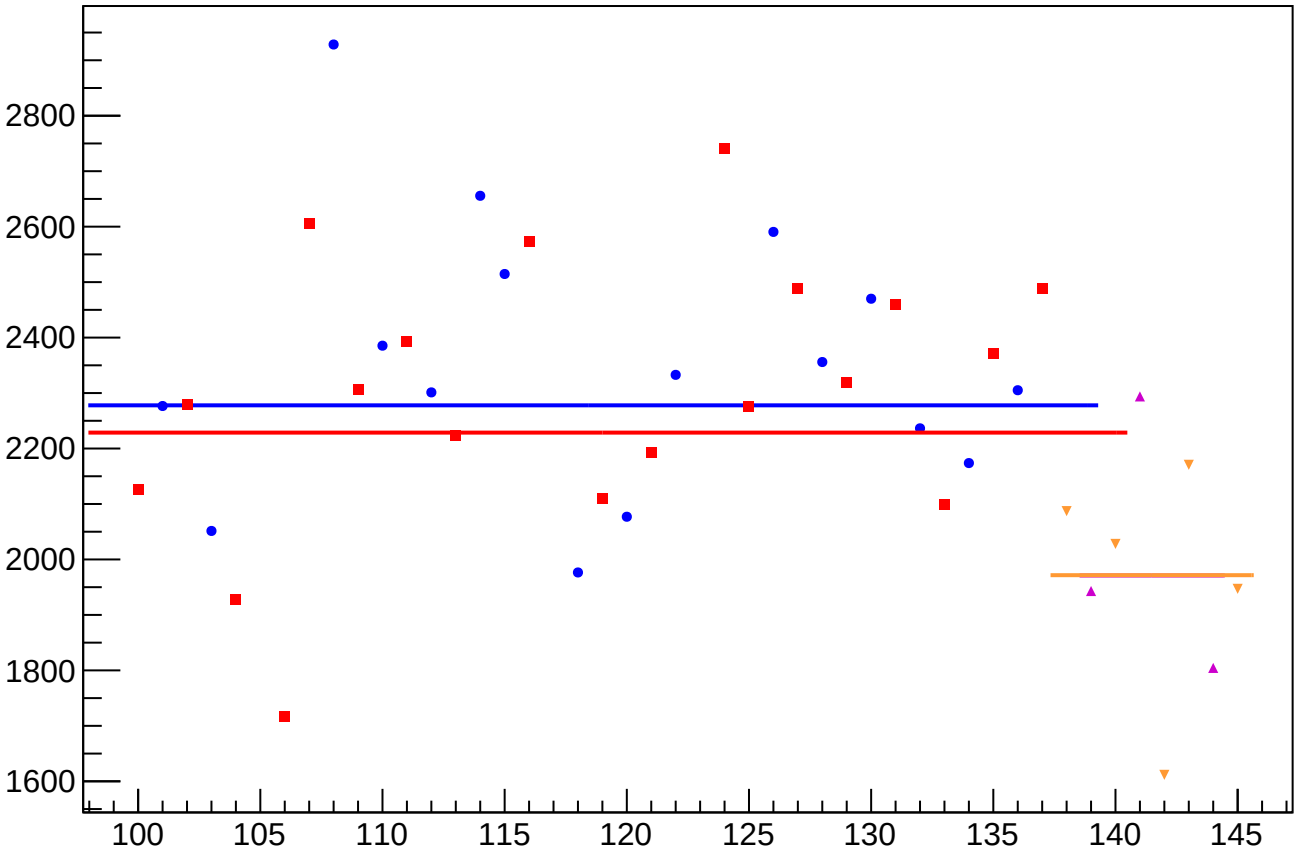
Left: -43.054+/-0.794 $\chi^2$/NDF: 2777.2/7

Right: 41.130+/-0.591 $\chi^2$/NDF: 8751.0/34

In: 25.216+/-0.701 $\chi^2$/NDF:15171.4/18

Out: -0.710+/-0.643 $\chi^2$/NDF:2853.9/23

All: 11.125+/-0.474 $\chi^2$/NDF: 18768.0/42




Right In: 2277.867+/-0.602 $\chi^2$/NDF: 115771.4/15

Left Out: 1971.635+/-0.732 $\chi^2$/NDF:63907.8/4

Right Out: 2228.689+/-0.580 $\chi^2$/NDF: 151135.6/18

Left In: 1971.028+/-0.875 $\chi^2$/NDF:48847.8/2

Left: 1971.385+/-0.561 $\chi^2$/NDF: 112755.9/7

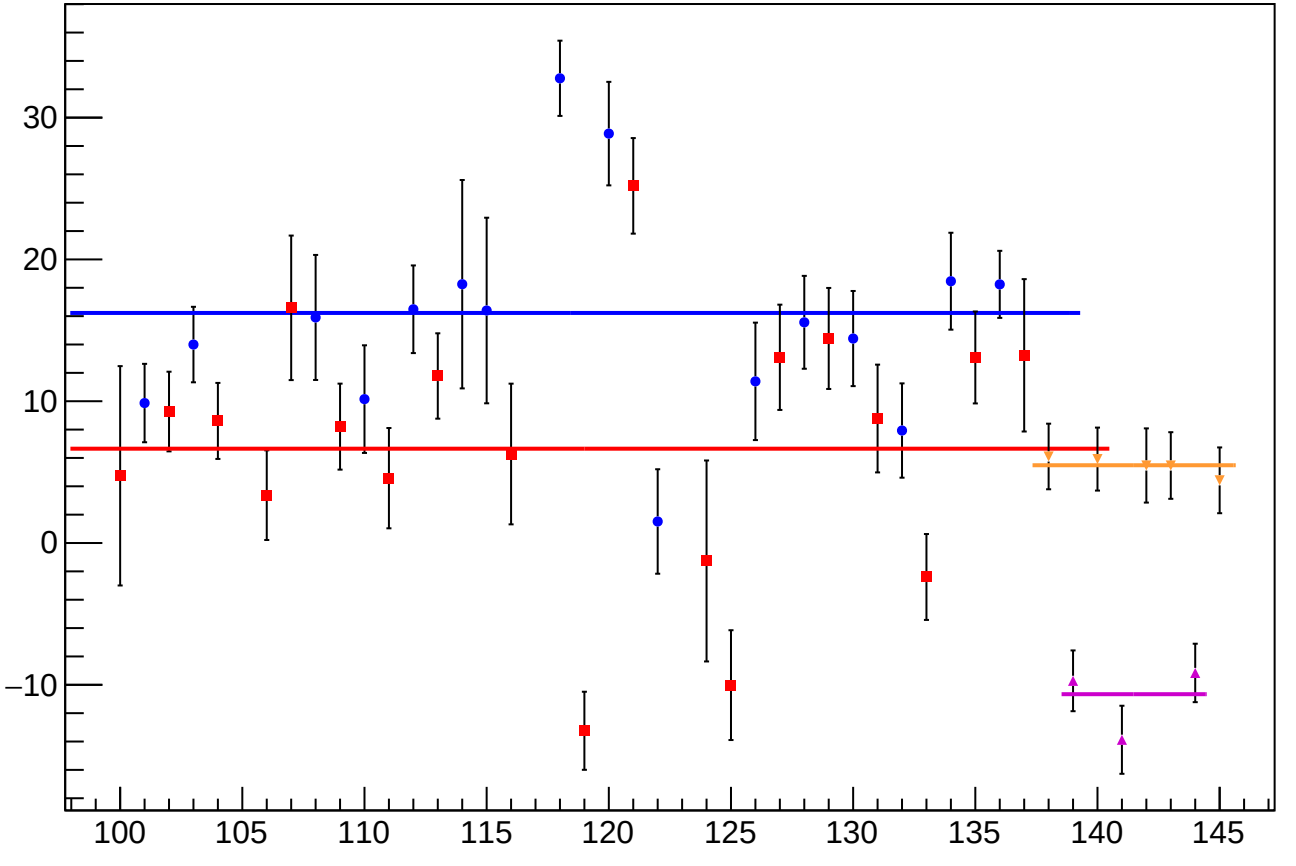
Right: 2252.356+/-0.418 $\chi^2$/NDF: 270367.9/34

In: 2179.215+/-0.496 $\chi^2$/NDF:248126.5/18

Out: 2129.533+/-0.454 $\chi^2$/NDF:290837.4/23

All: 2152.213+/-0.335 $\chi^2$/NDF: 544418.6/42

# diff_bpm0i01Y_mean vs Slug, Sign Corrected




Right In: 16.226+/-0.838 $\chi^2$/NDF: 84.5/15

Left Out: 5.485+/-1.053 $\chi^2$/NDF:0.3/4

Right Out: 6.652+/-0.809 $\chi^2$/NDF: 134.6/18

Left In: -10.662+/-1.263 $\chi^2$/NDF:2.5/2

Left: -1.133+/-0.809 $\chi^2$/NDF: 99.3/7

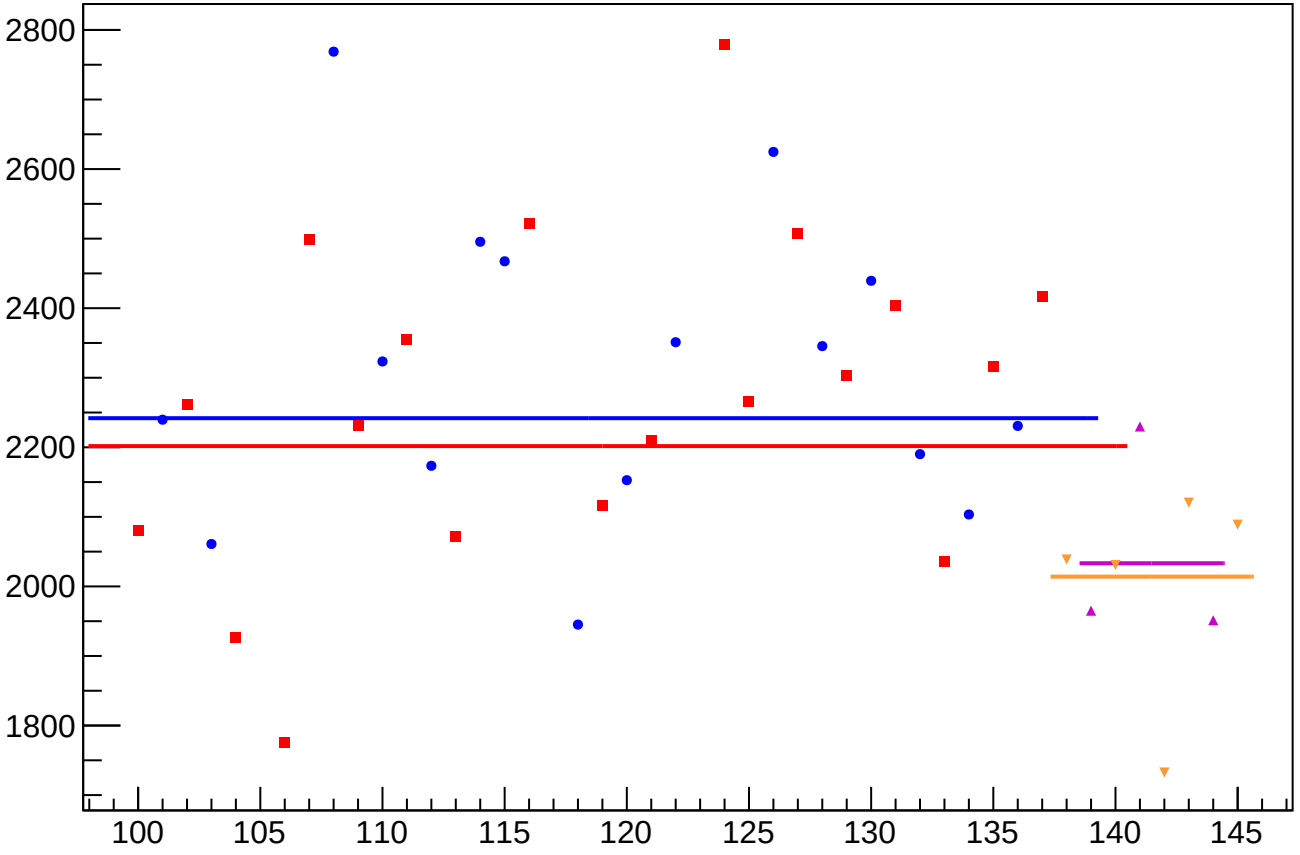
Right: 11.274+/-0.582 $\chi^2$/NDF: 286.7/34

In: 8.013+/-0.698 $\chi^2$/NDF:401.8/18

Out: 6.218+/-0.642 $\chi^2$/NDF:135.7/23

All: 7.040+/-0.472 $\chi^2$/NDF: 541.1/42

# diff_bpm0i01Y_rms vs Slug, Sign Corrected




Right In: 2241.853+/-0.592 $\chi^2$/NDF: 102260.7/15

Left Out: 2014.079+/-0.744 $\chi^2$/NDF:29680.3/4

Right Out: 2201.739+/-0.572 $\chi^2$/NDF: 129882.5/18

Left In: 2033.322+/-0.893 $\chi^2$/NDF:18609.6/2

Left: 2021.966+/-0.572 $\chi^2$/NDF: 48563.8/7

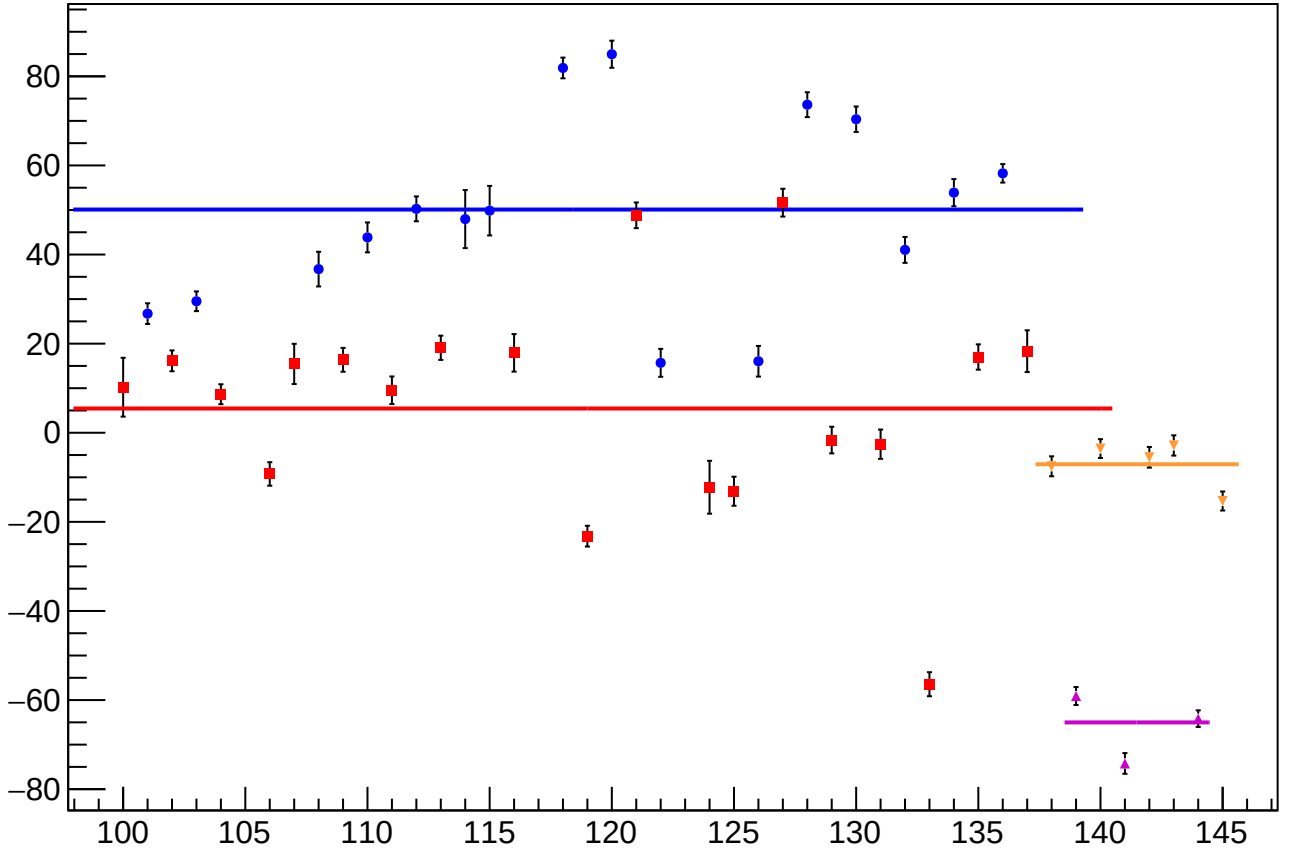
Right: 2221.106+/-0.412 $\chi^2$/NDF: 234515.6/34

In: 2178.155+/-0.494 $\chi^2$/NDF:158736.3/18

Out: 2132.014+/-0.454 $\chi^2$/NDF:199517.6/23

All: 2153.143+/-0.334 $\chi^2$/NDF: 362990.8/42

# diff_bpm0i01aX_mean vs Slug, Sign Corrected




Right In: 50.102+/-0.722 $\chi^2$/NDF: 888.5/15

Left Out: -7.080+/-0.989 $\chi^2$/NDF:21.7/4

Right Out: 5.444+/-0.694 $\chi^2$/NDF: 1311.6/18

Left In: -65.015+/-1.180 $\chi^2$/NDF:24.5/2

Left: -30.989+/-0.758 $\chi^2$/NDF: 1463.1/7

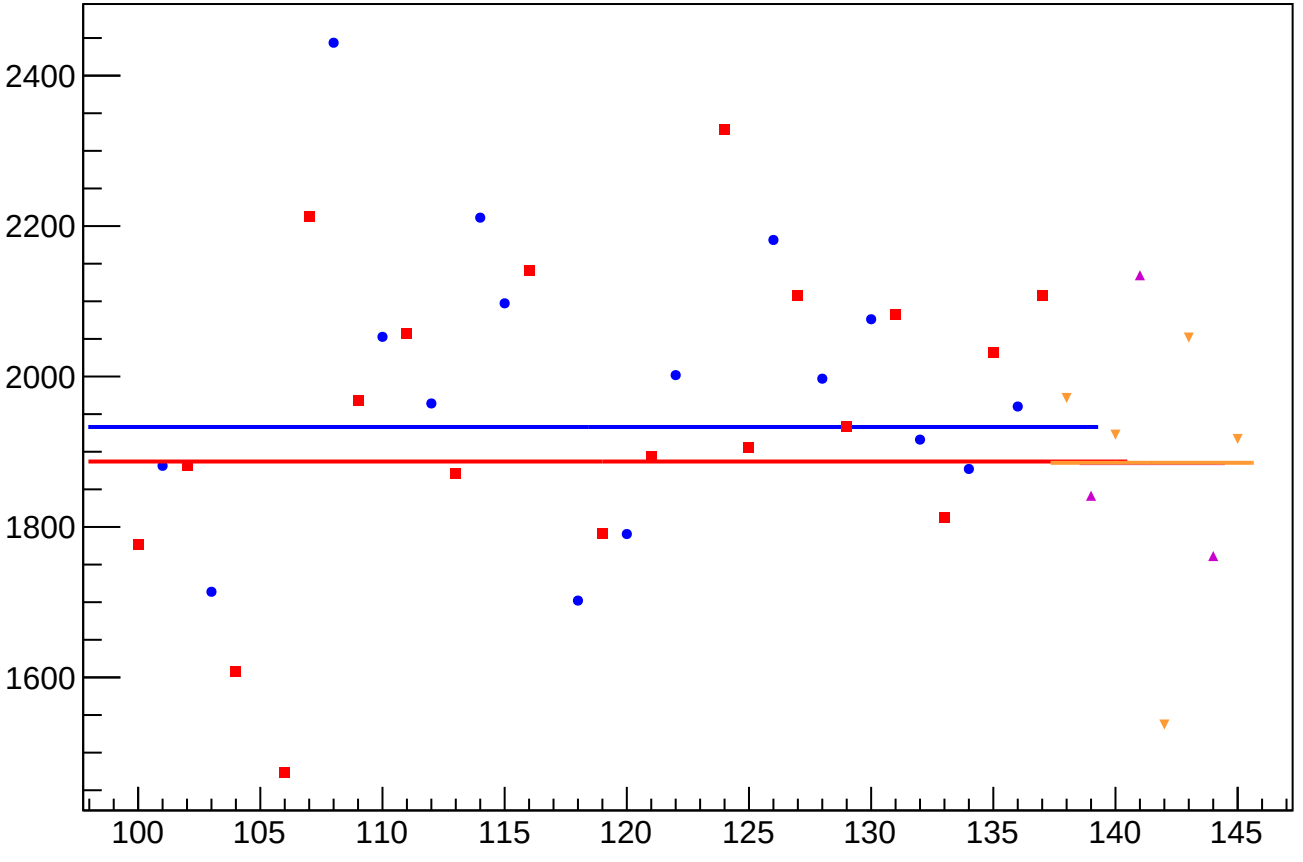
Right: 26.895+/-0.500 $\chi^2$/NDF: 4187.6/34

In: 18.719+/-0.616 $\chi^2$/NDF:7841.3/18

Out: 1.308+/-0.568 $\chi^2$/NDF:1440.7/23

All: 9.313+/-0.418 $\chi^2$/NDF: 9713.7/42

# diff_bpm0i01aX_rms vs Slug, Sign Corrected




Right In: 1932.904+/-0.511 $\chi^2$/NDF: 105967.6/15

Left Out: 1885.309+/-0.699 $\chi^2$/NDF:59791.4/4

Right Out: 1887.006+/-0.491 $\chi^2$/NDF: 149746.6/18

Left In: 1884.890+/-0.834 $\chi^2$/NDF:32780.8/2

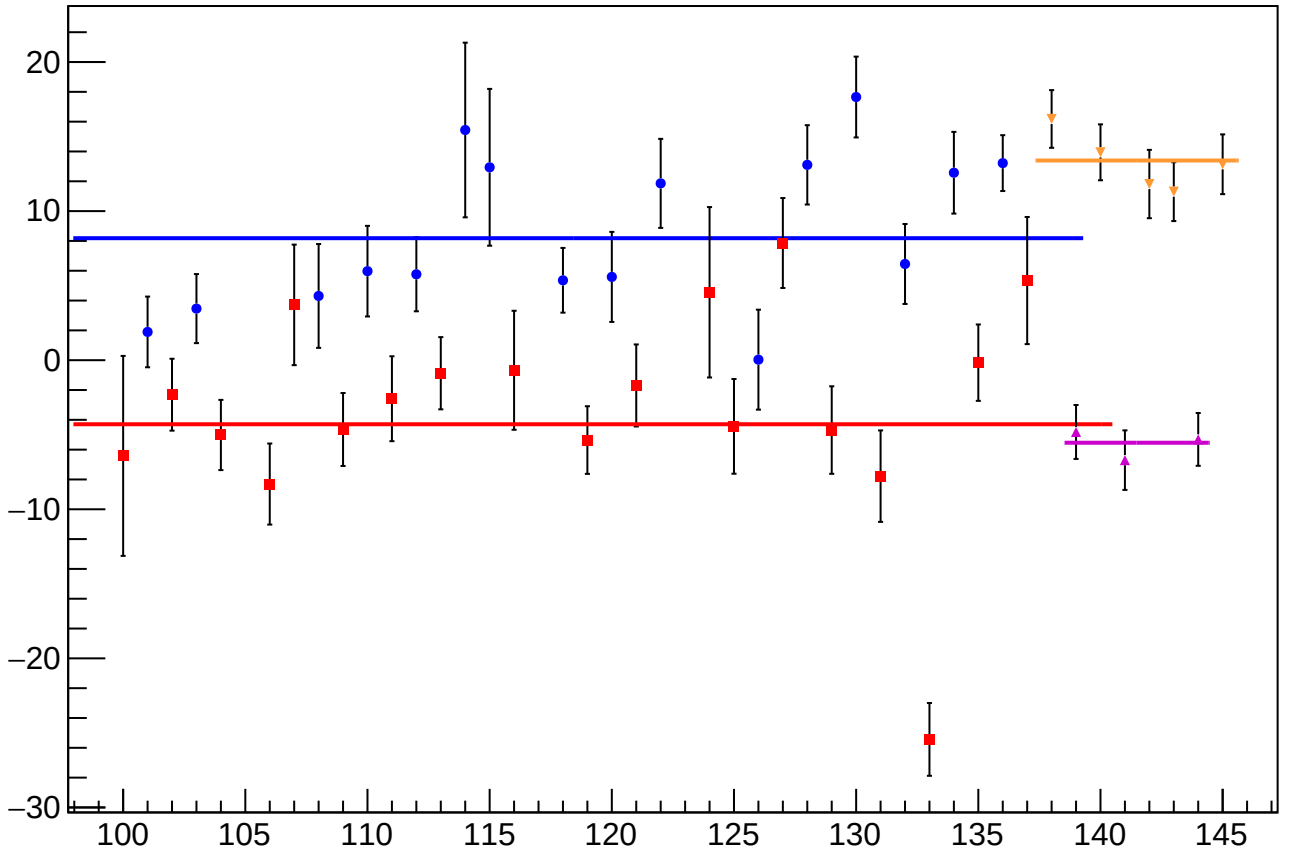
Left: 1885.136+/-0.536 $\chi^2$/NDF: 92572.4/7

Right: 1909.052+/-0.354 $\chi^2$/NDF: 259912.9/34

In: 1919.814+/-0.435 $\chi^2$/NDF:141158.9/18

Out: 1886.445+/-0.402 $\chi^2$/NDF:209541.9/23

All: 1901.788+/-0.295 $\chi^2$/NDF: 353872.6/42




Right In: 8.183+/-0.684 $\chi^2$/NDF: 52.0/15

Left Out: 13.395+/-0.895 $\chi^2$/NDF:3.8/4

Right Out: -4.297+/-0.665 $\chi^2$/NDF: 114.0/18

Left In: -5.537+/-1.069 $\chi^2$/NDF:0.5/2

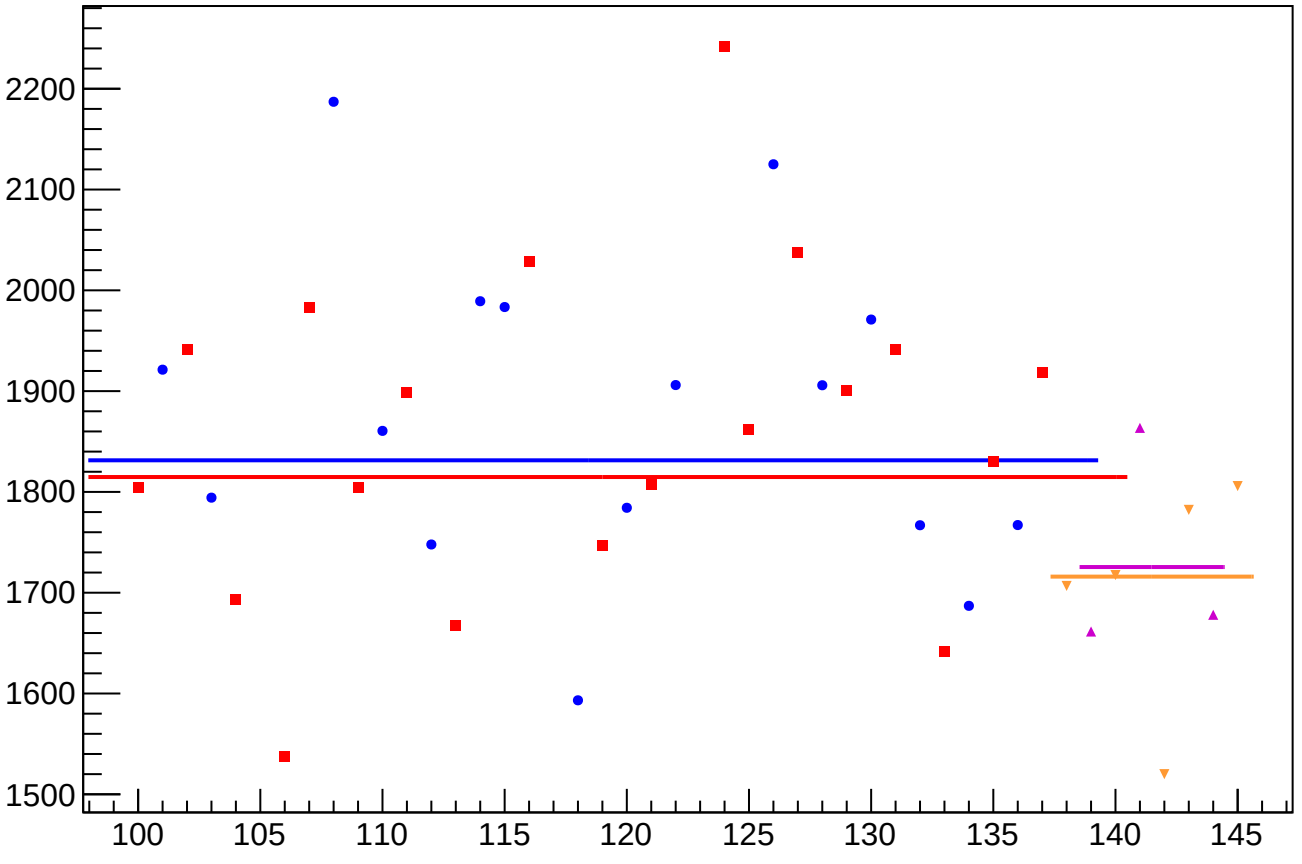
Left: 5.590+/-0.686 $\chi^2$/NDF: 188.6/7

Right: 1.776+/-0.477 $\chi^2$/NDF: 337.0/34

In: 4.202+/-0.576 $\chi^2$/NDF:169.4/18

Out: 1.998+/-0.534 $\chi^2$/NDF:369.2/23

All: 3.017+/-0.392 $\chi^2$/NDF: 546.4/42




Right In: 1831.359+/-0.483 $\chi^2$/NDF: 86919.2/15

Left Out: 1715.970+/-0.633 $\chi^2$/NDF:20941.7/4

Right Out: 1814.774+/-0.471 $\chi^2$/NDF: 90738.7/18

Left In: 1725.470+/-0.756 $\chi^2$/NDF:13491.7/2

Left: 1719.887+/-0.485 $\chi^2$/NDF: 34526.3/7

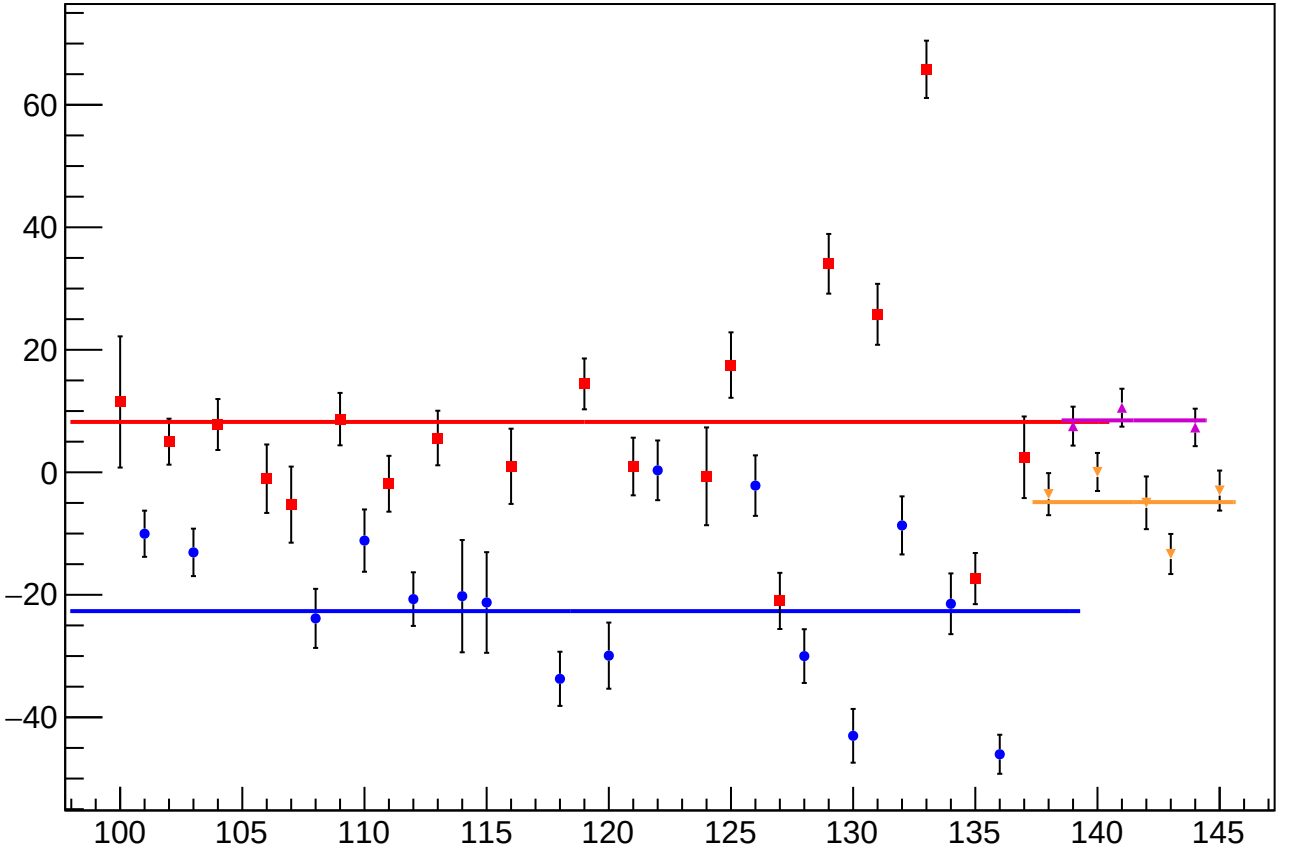
Right: 1822.844+/-0.337 $\chi^2$/NDF: 178262.4/34

In: 1800.632+/-0.407 $\chi^2$/NDF:114337.6/18

Out: 1779.618+/-0.378 $\chi^2$/NDF:127368.0/23

All: 1789.335+/-0.277 $\chi^2$/NDF: 243137.2/42

# diff_bpm0l01X_mean vs Slug, Sign Corrected




Right In: -22.663+/-1.152 $\chi^2$/NDF: 157.2/15

Left Out: -4.866+/-1.526 $\chi^2$/NDF:9.7/4

Right Out: 8.224+/-1.129 $\chi^2$/NDF: 294.8/18

Left In: 8.478+/-1.795 $\chi^2$/NDF:0.7/2

Left: 0.733+/-1.163 $\chi^2$/NDF: 42.4/7

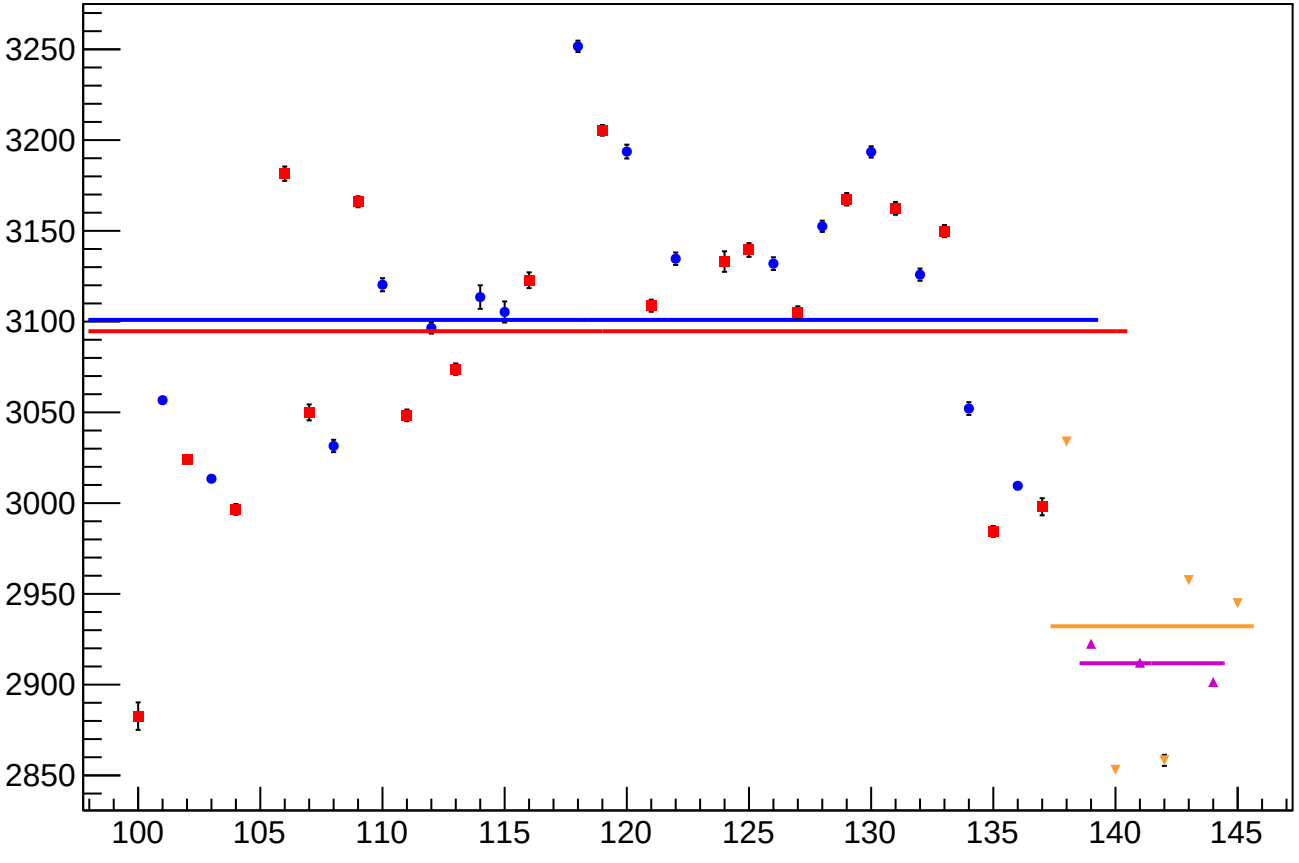
Right: -6.906+/-0.806 $\chi^2$/NDF: 818.8/34

In: -13.580+/-0.969 $\chi^2$/NDF:371.0/18

Out: 3.596+/-0.908 $\chi^2$/NDF:352.0/23

All: -4.426+/-0.663 $\chi^2$/NDF: 890.3/42

# diff_bpm0l01X_rms vs Slug, Sign Corrected




Right In: 3100.940+/-0.815 $\chi^2$/NDF: 7893.7/15

Left Out: 2932.172+/-1.079 $\chi^2$/NDF:3791.1/4

Right Out: 3094.688+/-0.798 $\chi^2$/NDF: 8584.4/18

Left In: 2911.771+/-1.269 $\chi^2$/NDF:45.7/2

Left: 2923.611+/-0.822 $\chi^2$/NDF: 3986.7/7

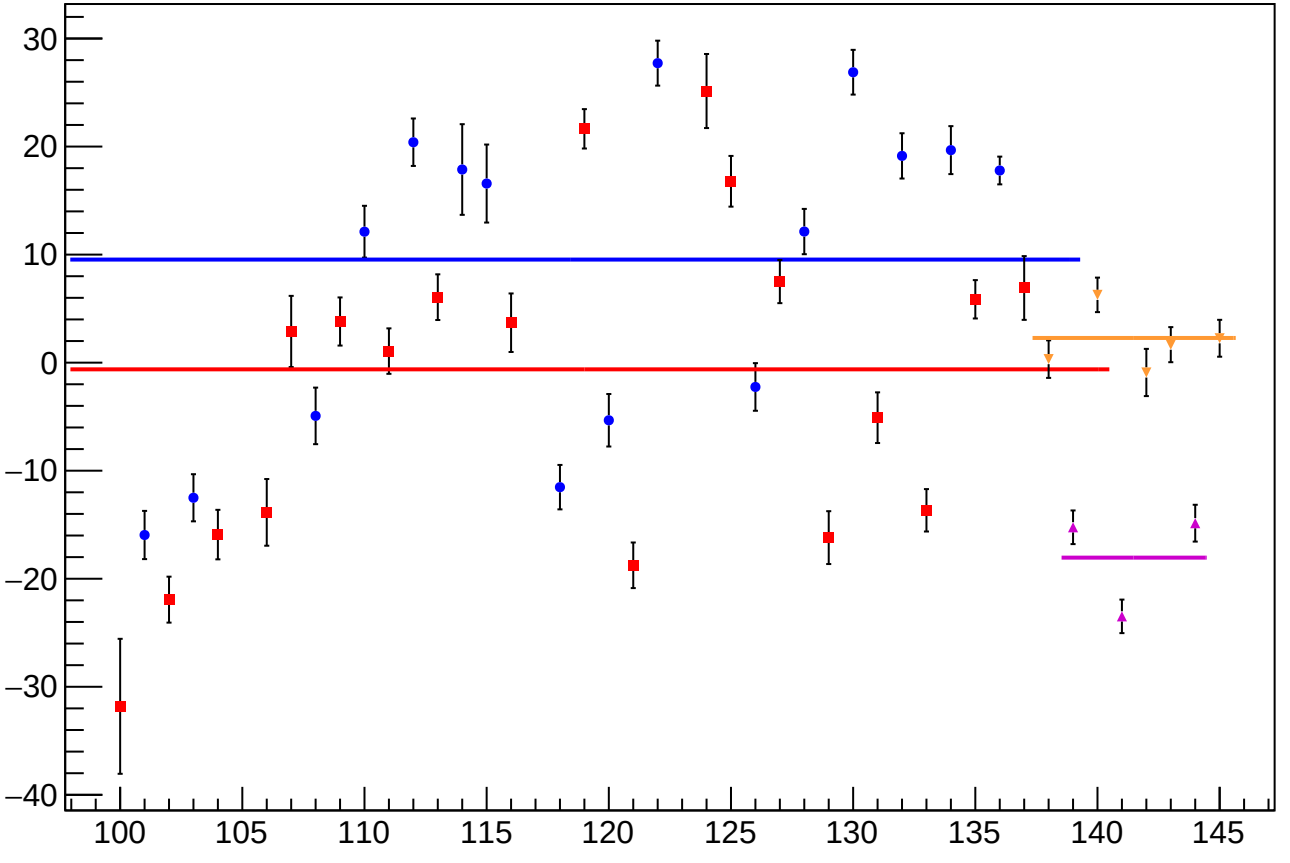
Right: 3097.751+/-0.570 $\chi^2$/NDF: 16508.2/34

In: 3045.765+/-0.686 $\chi^2$/NDF:23671.0/18

Out: 3037.230+/-0.642 $\chi^2$/NDF:27032.6/23

All: 3041.216+/-0.469 $\chi^2$/NDF: 50786.2/42

# diff_bpm0l01Y_mean vs Slug, Sign Corrected




Right In: 9.540+/-0.541 $\chi^2$/NDF: 698.7/15

Left Out: 2.285+/-0.777 $\chi^2$/NDF:9.8/4

Right Out: -0.620+/-0.534 $\chi^2$/NDF: 665.8/18

Left In: -18.047+/-0.923 $\chi^2$/NDF:19.0/2

Left: -6.146+/-0.595 $\chi^2$/NDF: 312.6/7

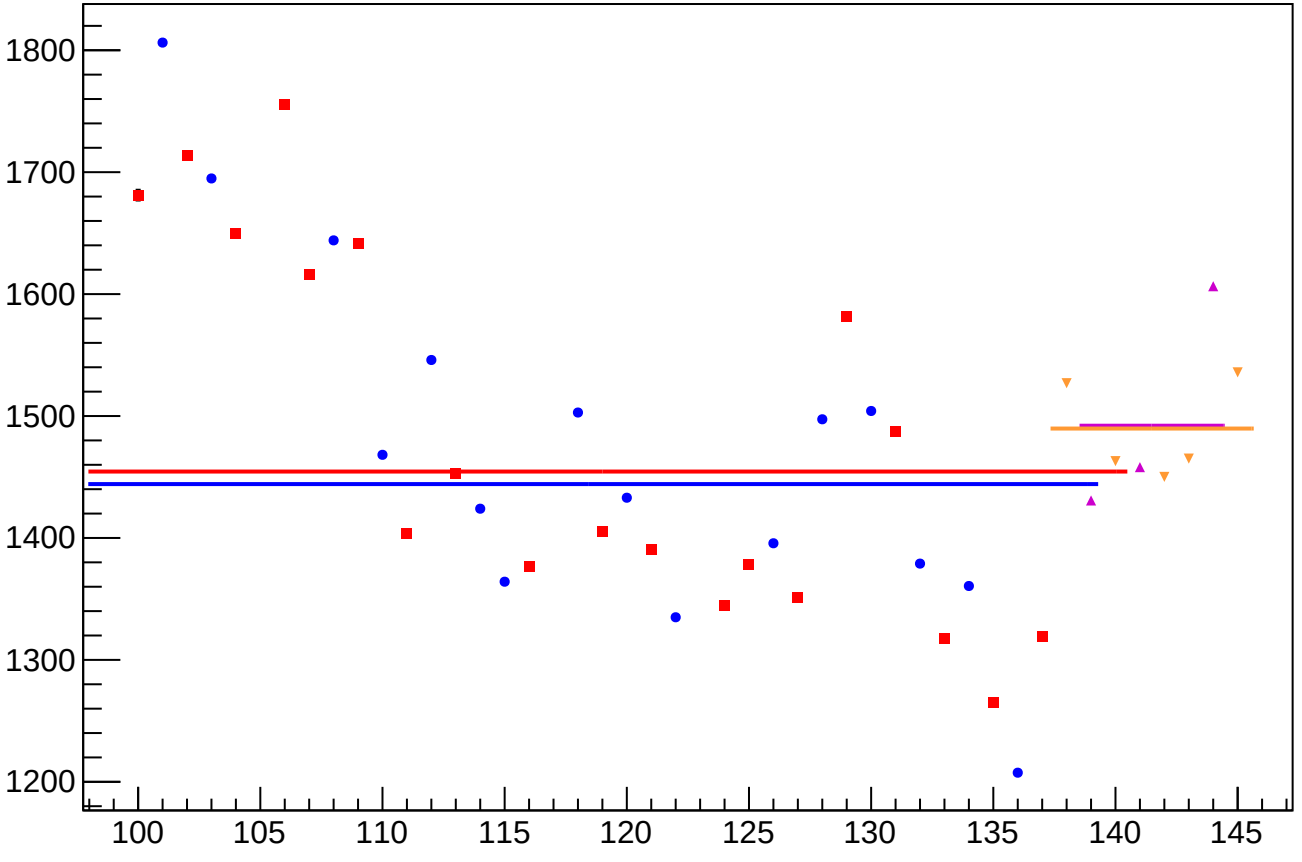
Right: 4.392+/-0.380 $\chi^2$/NDF: 1543.1/34

In: 2.486+/-0.467 $\chi^2$/NDF:1382.0/18

Out: 0.312+/-0.440 $\chi^2$/NDF:685.1/23

All: 1.335+/-0.320 $\chi^2$/NDF: 2078.5/42

# diff_bpm0l01Y_rms vs Slug, Sign Corrected




Right In: 1444.188+/-0.383 $\chi^2$/NDF: 180147.9/15

Left Out: 1489.738+/-0.550 $\chi^2$/NDF:4053.5/4

Right Out: 1454.470+/-0.378 $\chi^2$/NDF: 142772.9/18

Left In: 1492.058+/-0.653 $\chi^2$/NDF:13075.7/2

Left: 1490.700+/-0.420 $\chi^2$/NDF: 17136.6/7

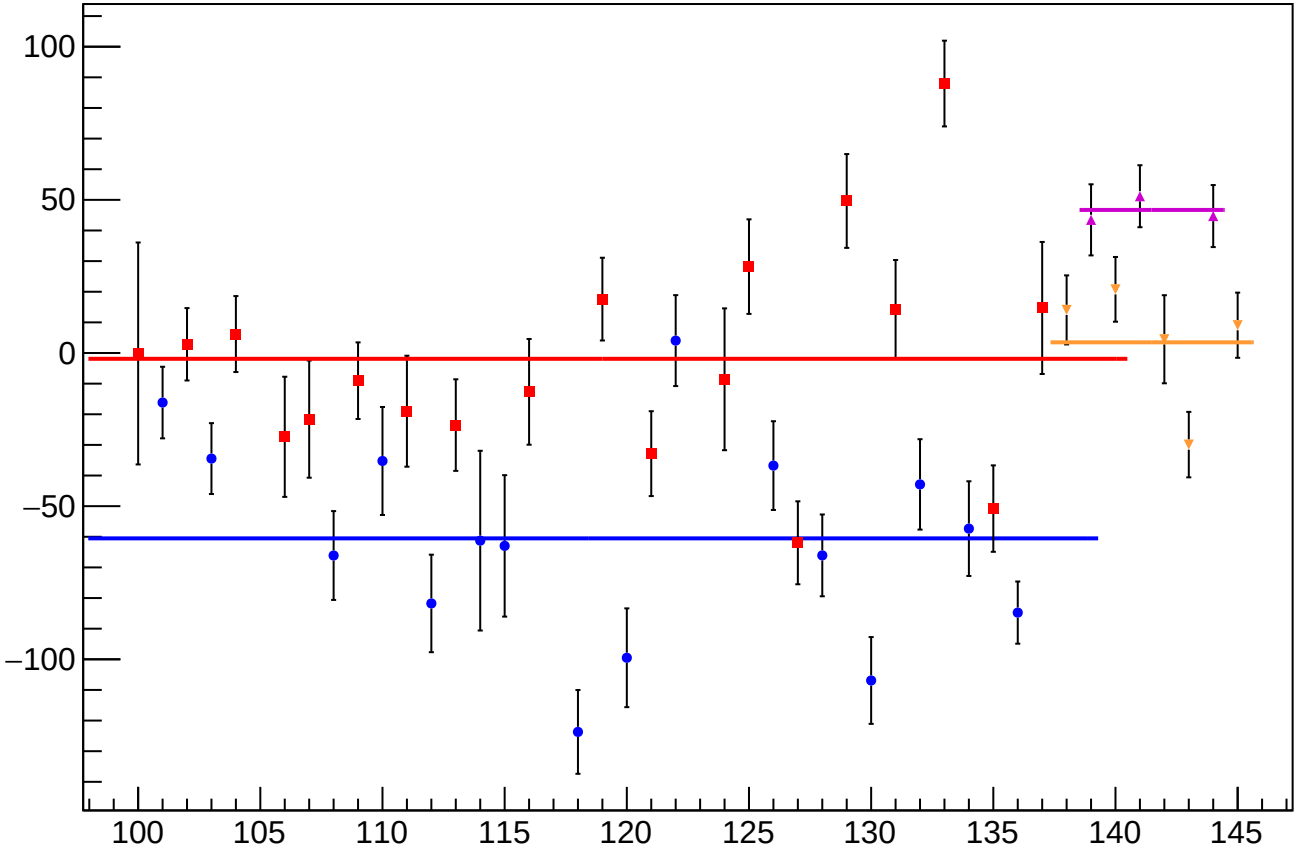
Right: 1449.398+/-0.269 $\chi^2$/NDF: 323286.5/34

In: 1456.429+/-0.330 $\chi^2$/NDF:197223.5/18

Out: 1465.782+/-0.311 $\chi^2$/NDF:149623.3/23

All: 1461.382+/-0.227 $\chi^2$/NDF: 347271.6/42

# diff_bpm0l02X_mean vs Slug, Sign Corrected




Right In: -60.516+/-3.596 $\chi^2$/NDF: 90.3/15

Left Out: 3.486+/-5.047 $\chi^2$/NDF:13.6/4

Right Out: -1.894+/-3.543 $\chi^2$/NDF: 103.8/18

Left In: 46.714+/-6.093 $\chi^2$/NDF:0.3/2

Left: 21.079+/-3.887 $\chi^2$/NDF: 43.8/7

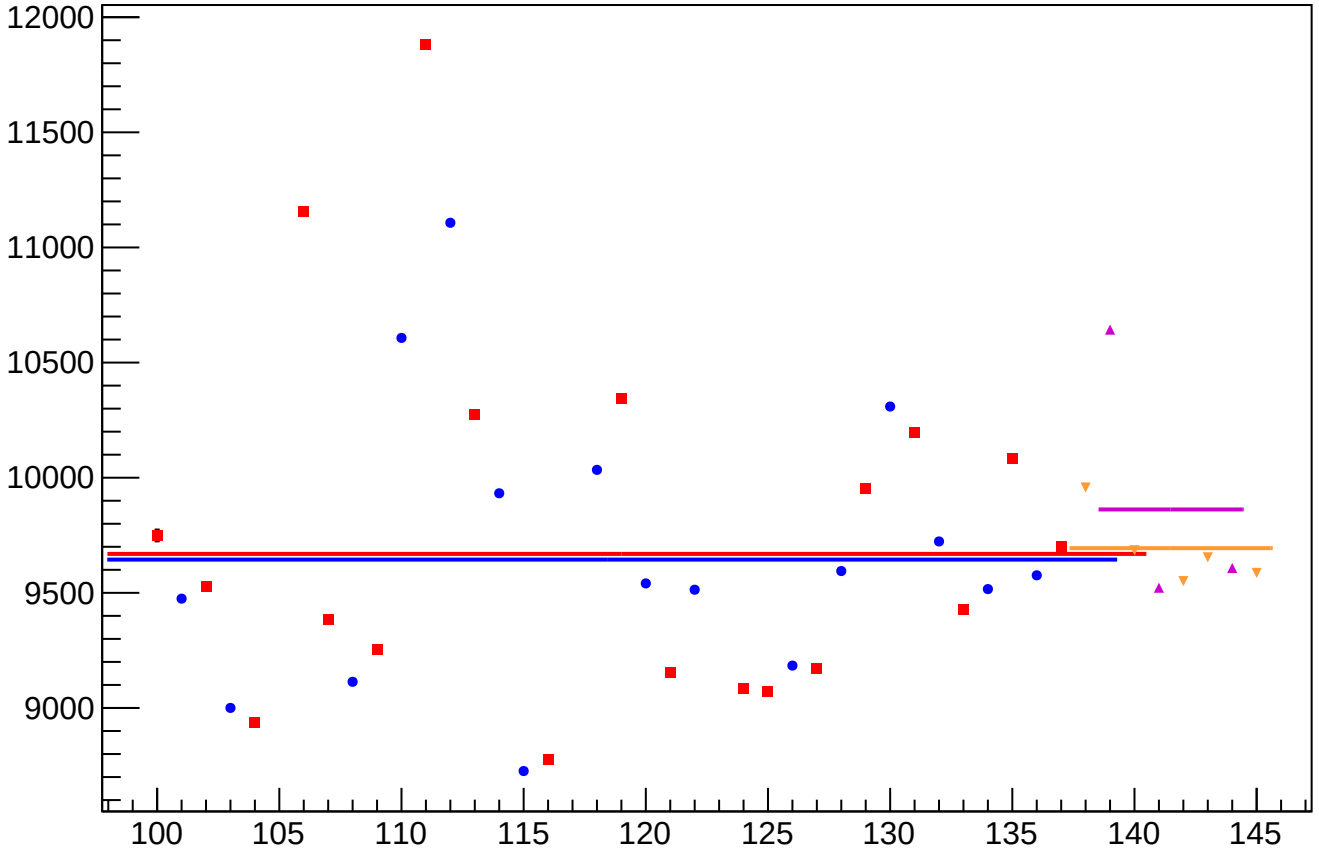
Right: -30.766+/-2.524 $\chi^2$/NDF: 329.0/34

In: -32.811+/-3.097 $\chi^2$/NDF:320.4/18

Out: -0.118+/-2.900 $\chi^2$/NDF:118.2/23

All: -15.390+/-2.117 $\chi^2$/NDF: 497.9/42

# diff_bpm0l02X_rms vs Slug, Sign Corrected




Right In: 9644.396+/-2.543 $\chi^2$/NDF: 44101.6/15

Left Out: 9694.044+/-3.569 $\chi^2$/NDF:1524.6/4

Right Out: 9669.136+/-2.505 $\chi^2$/NDF: 79878.1/18

Left In: 9862.170+/-4.308 $\chi^2$/NDF:12568.7/2

Left: 9762.466+/-2.748 $\chi^2$/NDF: 14996.4/7

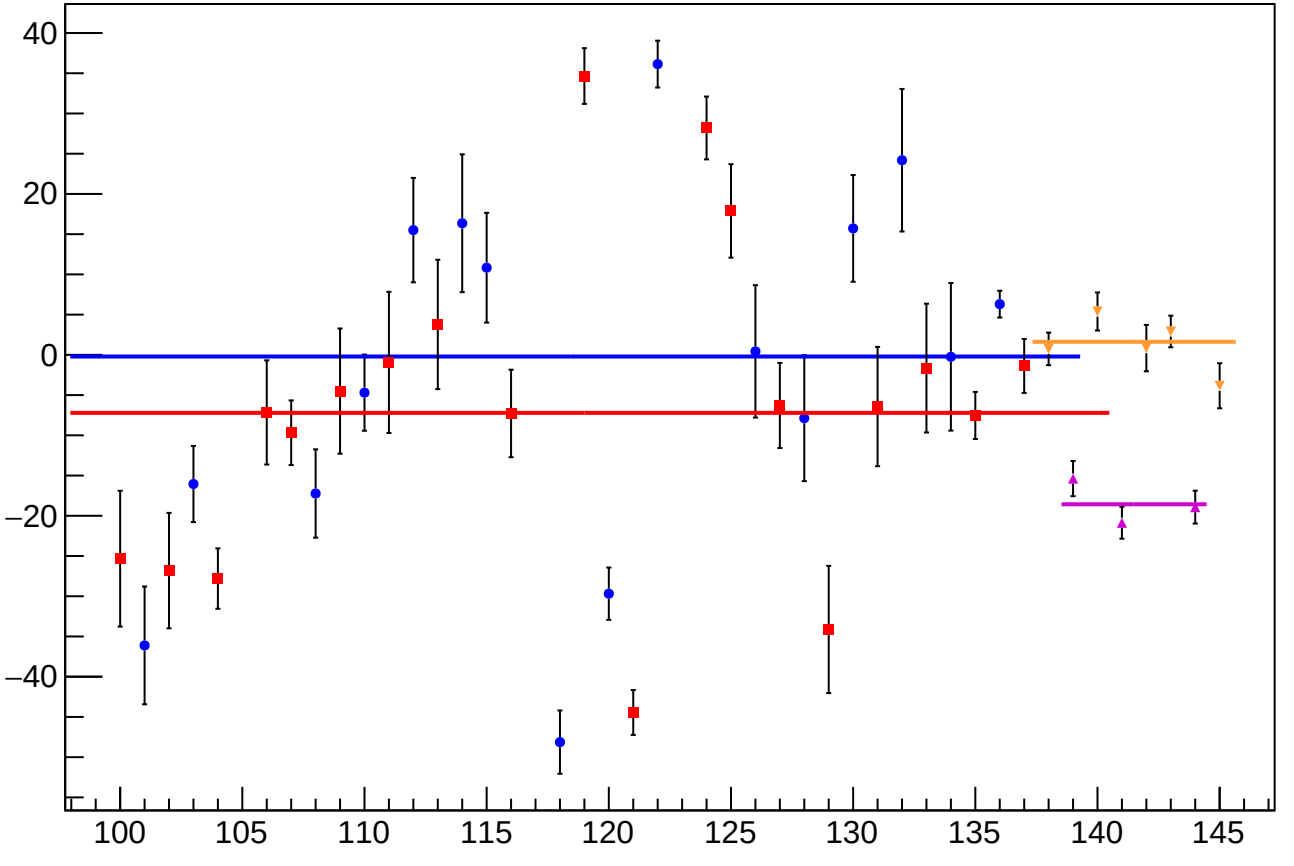
Right: 9656.951+/-1.785 $\chi^2$/NDF: 124027.7/34

In: 9700.663+/-2.190 $\chi^2$/NDF:58565.2/18

Out: 9677.358+/-2.050 $\chi^2$/NDF:81435.3/23

All: 9688.245+/-1.497 $\chi^2$/NDF: 140060.8/42

# diff_bpm0l02Y_mean vs Slug, Sign Corrected




Right In: -0.206+/-1.045 $\chi^2$/NDF: 473.7/15

Left Out: 1.623+/-1.037 $\chi^2$/NDF:7.0/4

Right Out: -7.206+/-1.074 $\chi^2$/NDF: 485.6/18

Left In: -18.571+/-1.191 $\chi^2$/NDF:3.5/2

Left: -7.081+/-0.782 $\chi^2$/NDF: 174.0/7

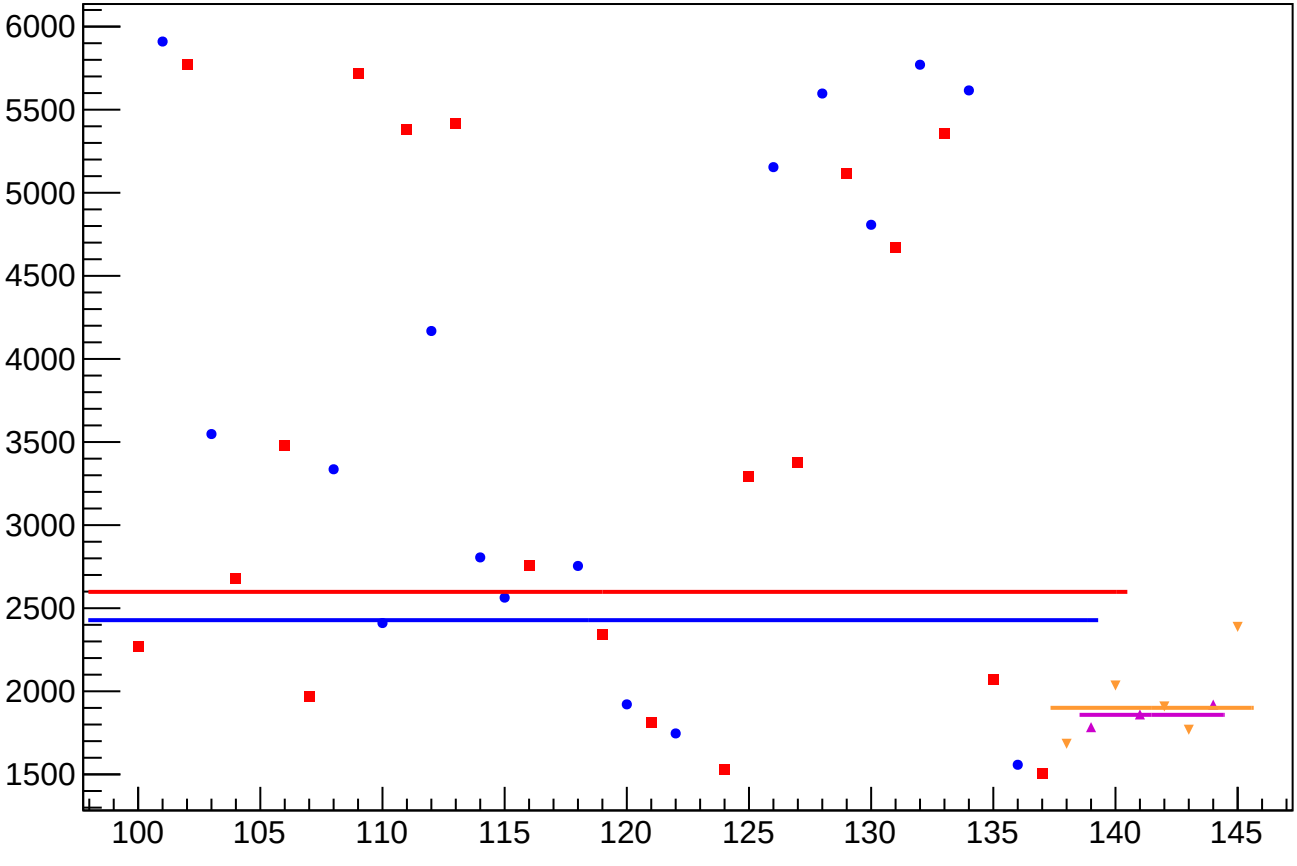
Right: -3.613+/-0.749 $\chi^2$/NDF: 981.2/34

In: -8.194+/-0.786 $\chi^2$/NDF:611.5/18

Out: -2.638+/-0.746 $\chi^2$/NDF:527.7/23

All: -5.272+/-0.541 $\chi^2$/NDF: 1165.4/42

# diff_bpm0l02Y_rms vs Slug, Sign Corrected




Right In: 2428.080+/-0.739 $\chi^2$/NDF: 2815335.2/15

Left Out: 1900.555+/-0.733 $\chi^2$/NDF:98783.9/4

Right Out: 2598.321+/-0.759 $\chi^2$/NDF: 2514932.7/18

Left In: 1858.319+/-0.842 $\chi^2$/NDF:4144.2/2

Left: 1882.350+/-0.553 $\chi^2$/NDF: 104358.1/7

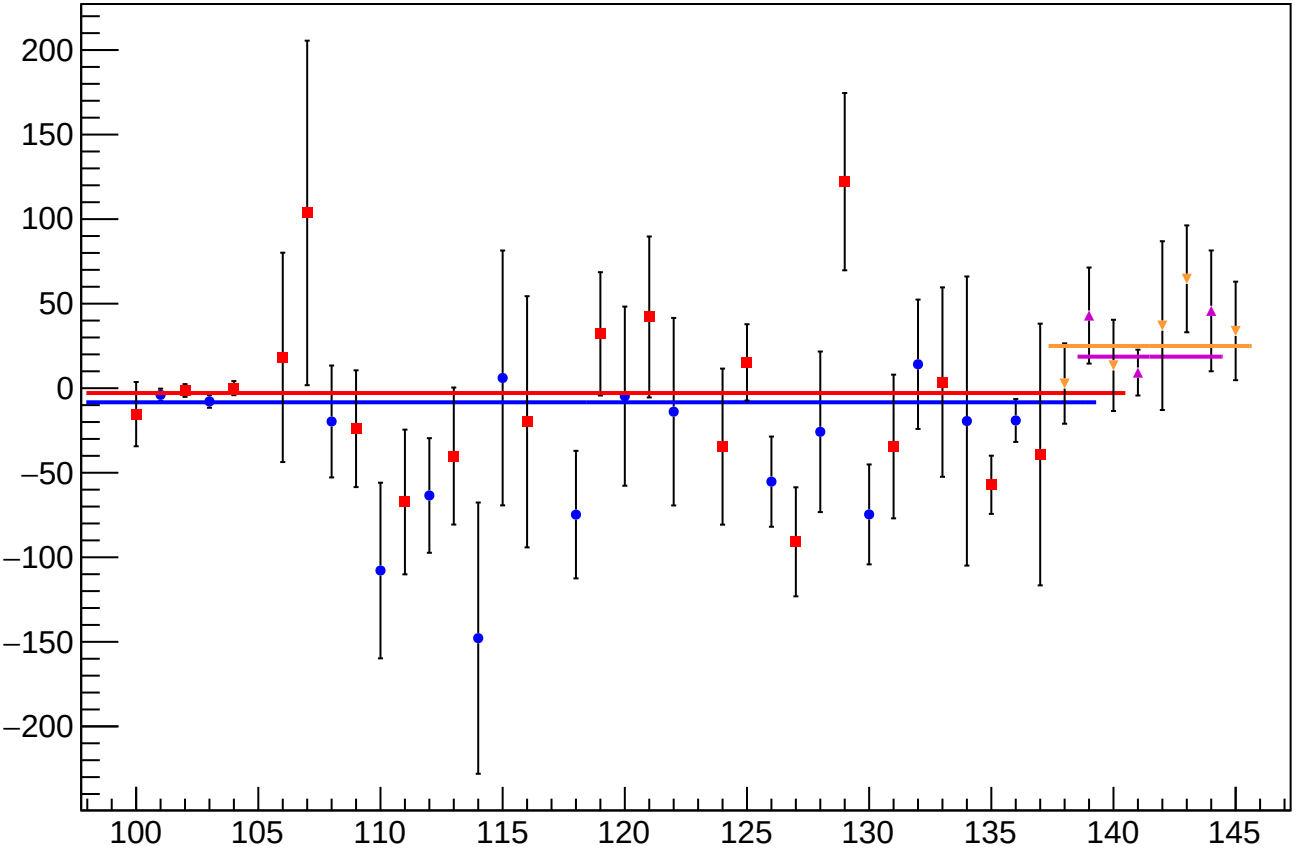
Right: 2510.930+/-0.530 $\chi^2$/NDF: 5356082.2/34

In: 2180.249+/-0.556 $\chi^2$/NDF:3077914.9/18

Out: 2237.334+/-0.527 $\chi^2$/NDF:3050762.4/23

All: 2210.277+/-0.383 $\chi^2$/NDF: 6134229.7/42

# diff_bpm0l03X_mean vs Slug, Sign Corrected




Right In: -8.332+/-2.499 $\chi^2$/NDF: 23.4/15

Left Out: 24.970+/-13.215 $\chi^2$/NDF:2.8/4

Right Out: -2.848+/-2.640 $\chi^2$/NDF: 32.6/18

Left In: 18.662+/-11.570 $\chi^2$/NDF:1.8/2

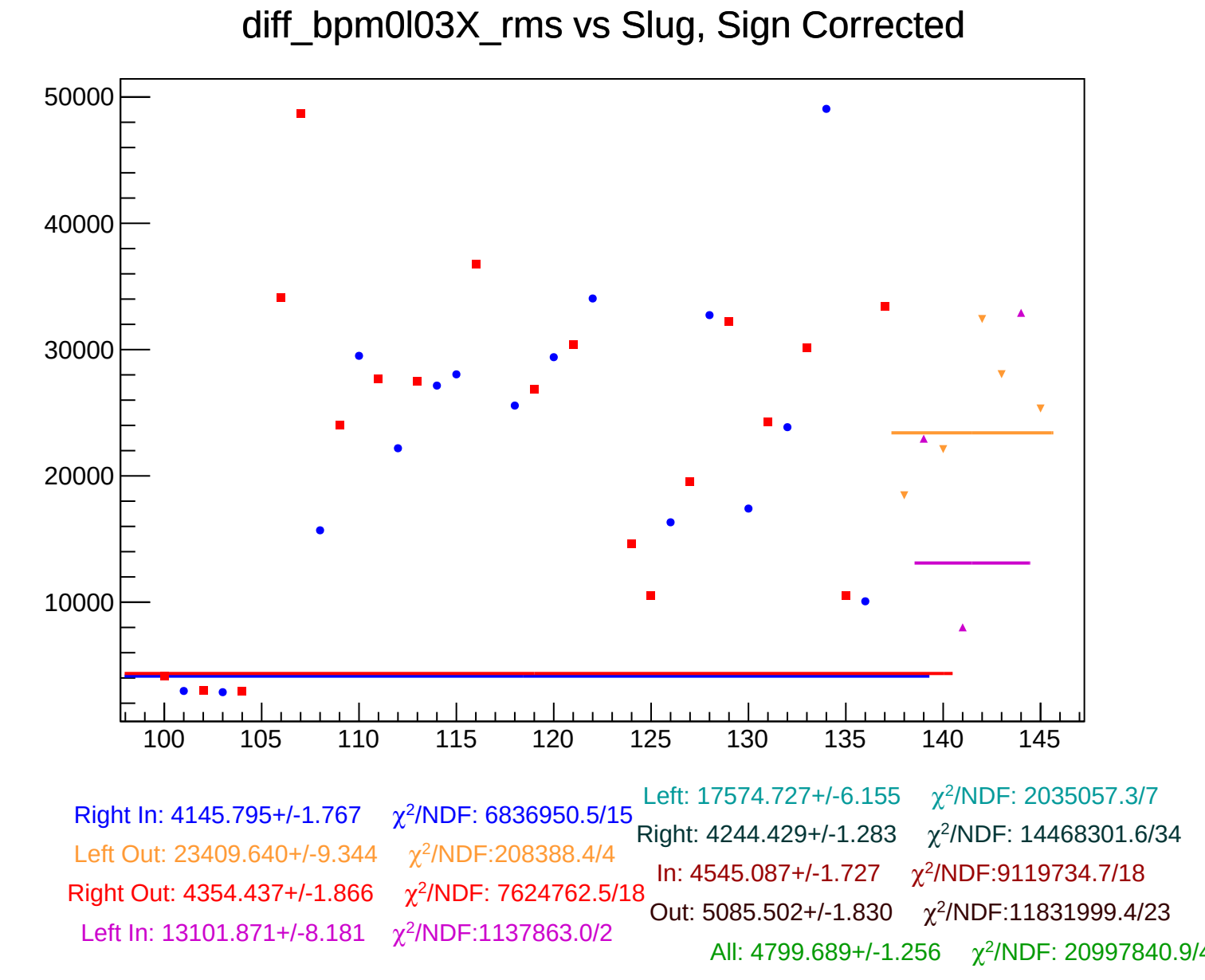
Left: 21.399+/-8.705 $\chi^2$/NDF: 4.7/7

Right: -5.740+/-1.815 $\chi^2$/NDF: 58.3/34

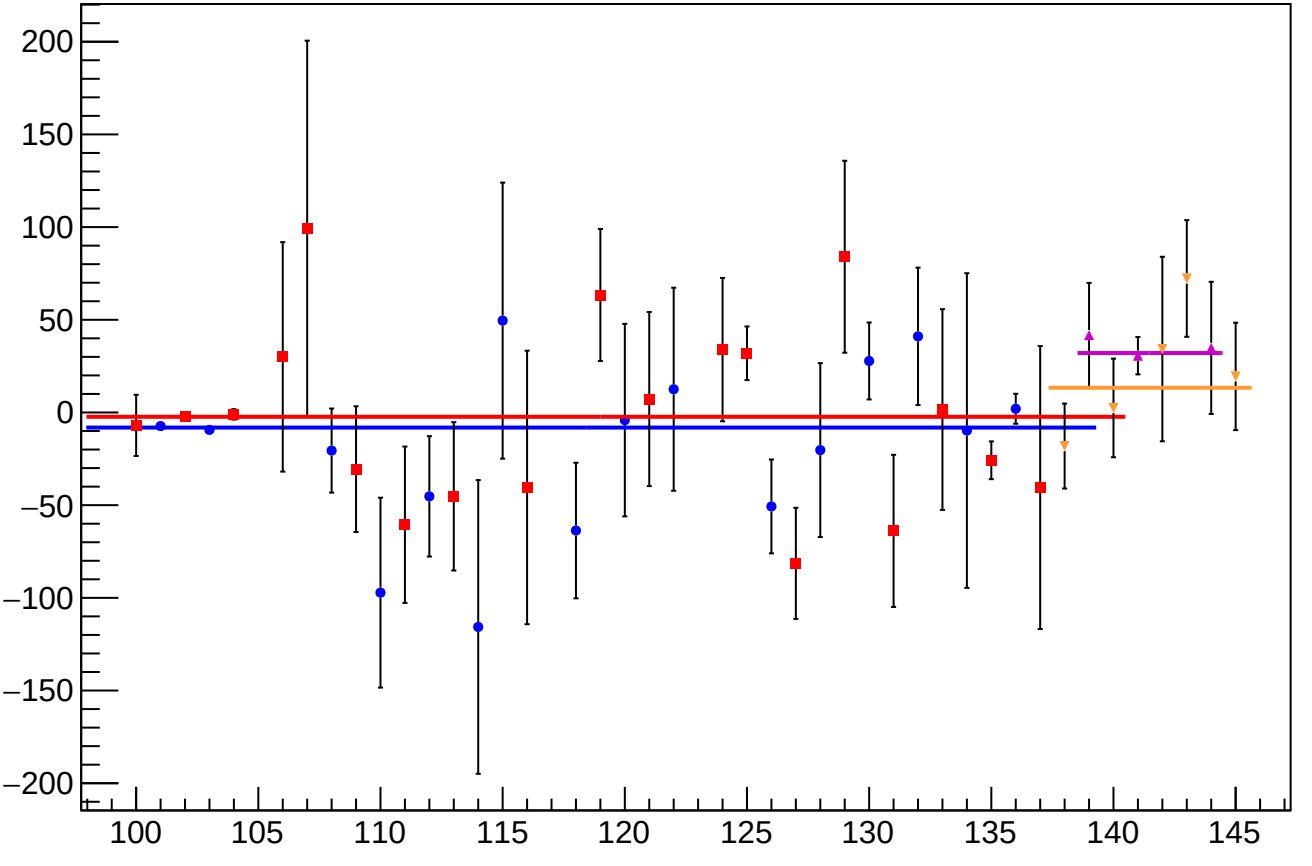
In: -7.129+/-2.443 $\chi^2$/NDF:30.4/18

Out: -1.781+/-2.588 $\chi^2$/NDF:39.7/23

All: -4.609+/-1.777 $\chi^2$/NDF: 72.3/42


diff_bpm0l03X_rms vs Slug, Sign Corrected
50000
40000
30000
20000
10000
100
105
110
115
120
125
130
135
140
145
Right In: 4145.795+/-1.767 χ²/NDF: 6836950.5/15
Left Out: 23409.640+/-9.344 χ²/NDF:208388.4/4
Right Out: 4354.437+/-1.866 χ²/NDF: 7624762.5/18
Left In: 13101.871+/-8.181 χ²/NDF:1137863.0/2
Left: 17574.727+/-6.155 χ²/NDF: 2035057.3/7
Right: 4244.429+/-1.283 χ²/NDF: 14468301.6/34
In: 4545.087+/-1.727 χ²/NDF:9119734.7/18
Out: 5085.502+/-1.830 χ²/NDF:11831999.4/23
All: 4799.689+/-1.256 χ²/NDF: 20997840.9/4

# diff_bpm0l03Y_mean vs Slug, Sign Corrected




Right In: -8.132+/-1.720 $\chi^2$/NDF: 19.1/15

Left Out: 13.330+/-12.994 $\chi^2$/NDF:5.8/4

Right Out: -2.325+/-1.822 $\chi^2$/NDF: 33.1/18

Left In: 32.078+/-9.159 $\chi^2$/NDF:0.1/2

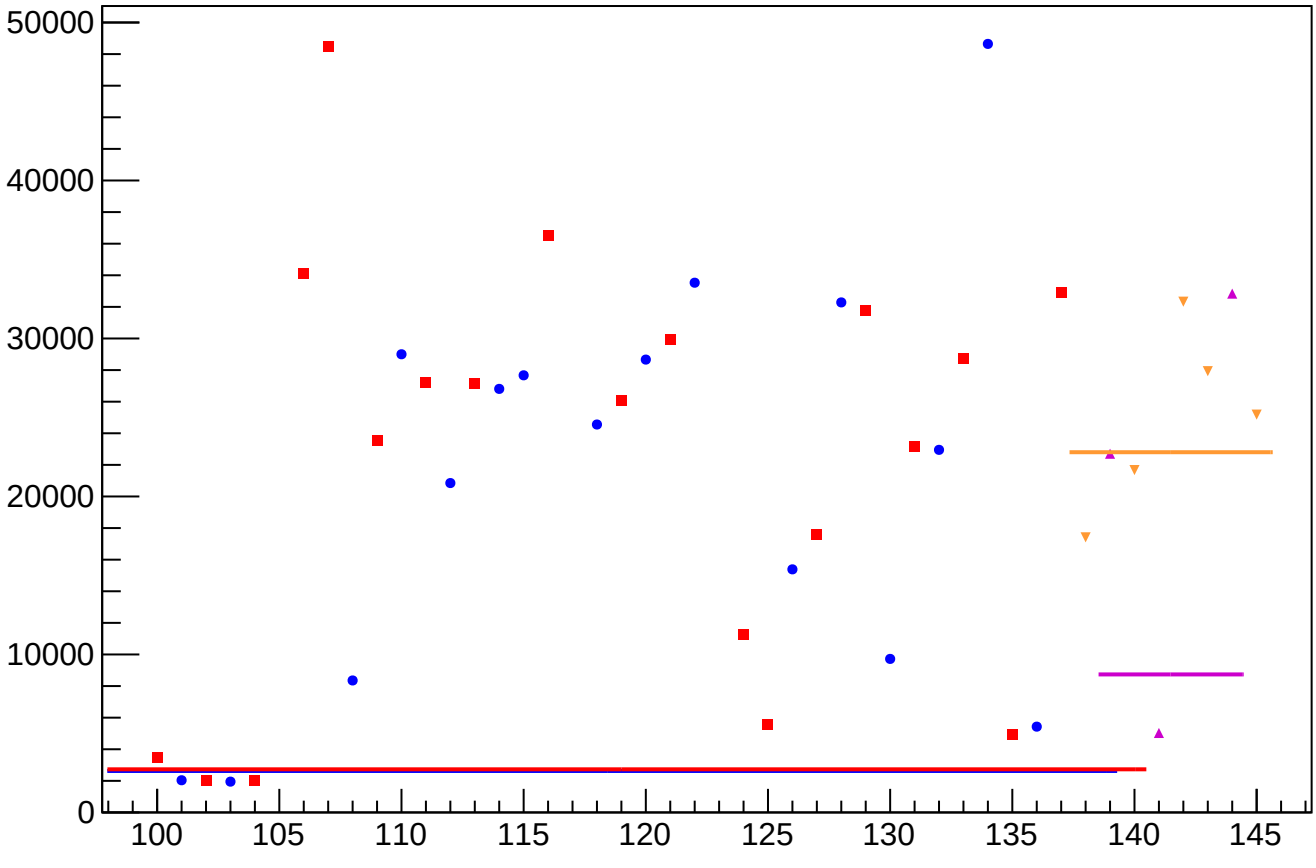
Left: 25.856+/-7.486 $\chi^2$/NDF: 7.3/7

Right: -5.394+/-1.251 $\chi^2$/NDF: 57.5/34

In: -6.762+/-1.691 $\chi^2$/NDF:37.9/18

Out: -2.023+/-1.804 $\chi^2$/NDF:40.3/23

All: -4.546+/-1.234 $\chi^2$/NDF: 81.8/42




Right In: 2626.430+/-1.216 $\chi^2$/NDF: 6780884.6/15

Left Out: 22801.362+/-9.188 $\chi^2$/NDF:254100.7/4

Right Out: 2730.235+/-1.288 $\chi^2$/NDF: 7985984.4/18

Left In: 8736.950+/-6.476 $\chi^2$/NDF:1677562.2/2

Left: 13404.986+/-5.293 $\chi^2$/NDF: 3497035.4/7

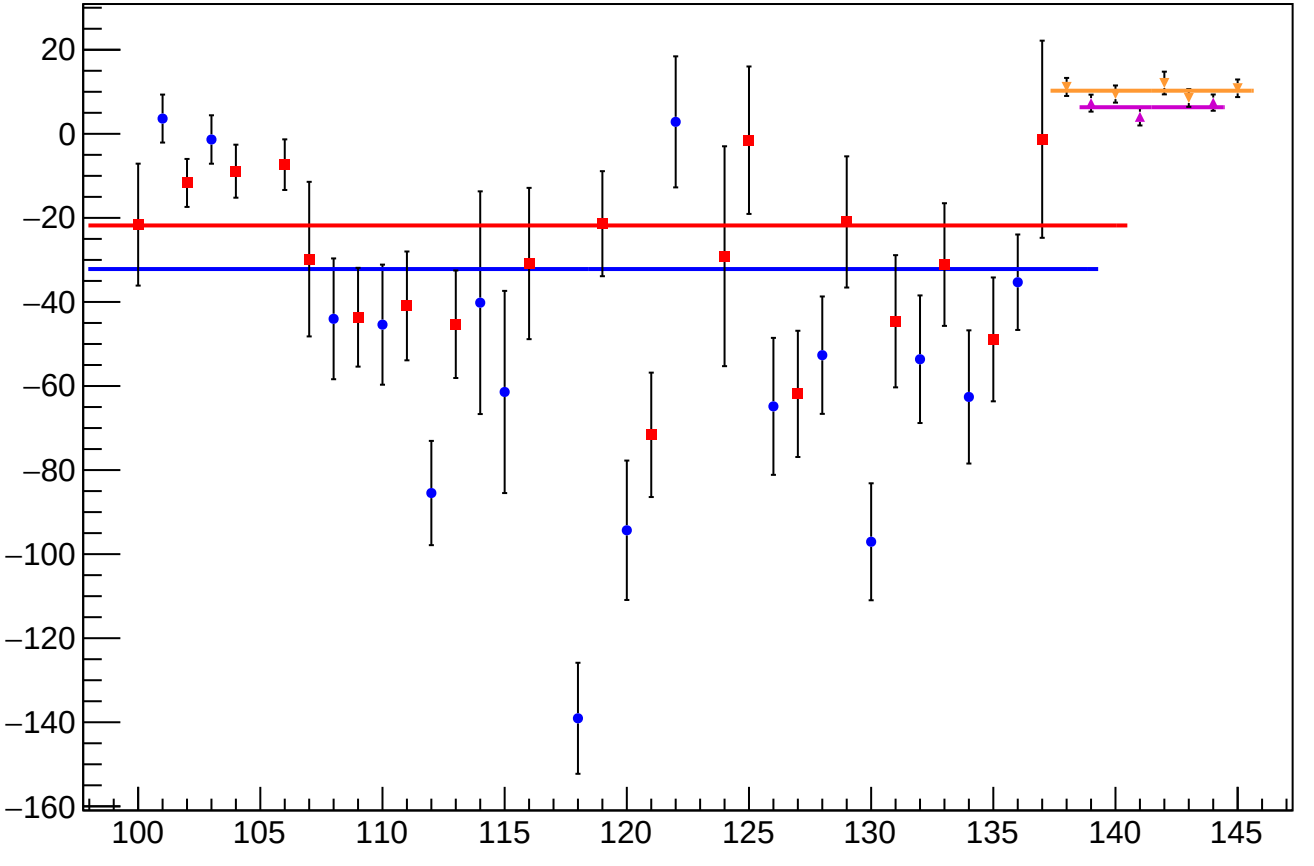
Right: 2675.367+/-0.884 $\chi^2$/NDF: 14770301.6/34

In: 2834.689+/-1.196 $\chi^2$/NDF:9318367.7/18

Out: 3117.100+/-1.276 $\chi^2$/NDF:12919878.4/23

All: 2966.757+/-0.872 $\chi^2$/NDF: 22264338.4/4

# diff_bpm0l04X_mean vs Slug, Sign Corrected




Right In: -32.171+/-2.842 $\chi^2$/NDF: 207.8/15

Left Out: 10.259+/-0.978 $\chi^2$/NDF:1.5/4

Right Out: -21.801+/-2.557 $\chi^2$/NDF: 49.1/18

Left In: 6.330+/-1.157 $\chi^2$/NDF:1.8/2

Left: 8.622+/-0.747 $\chi^2$/NDF: 10.0/7

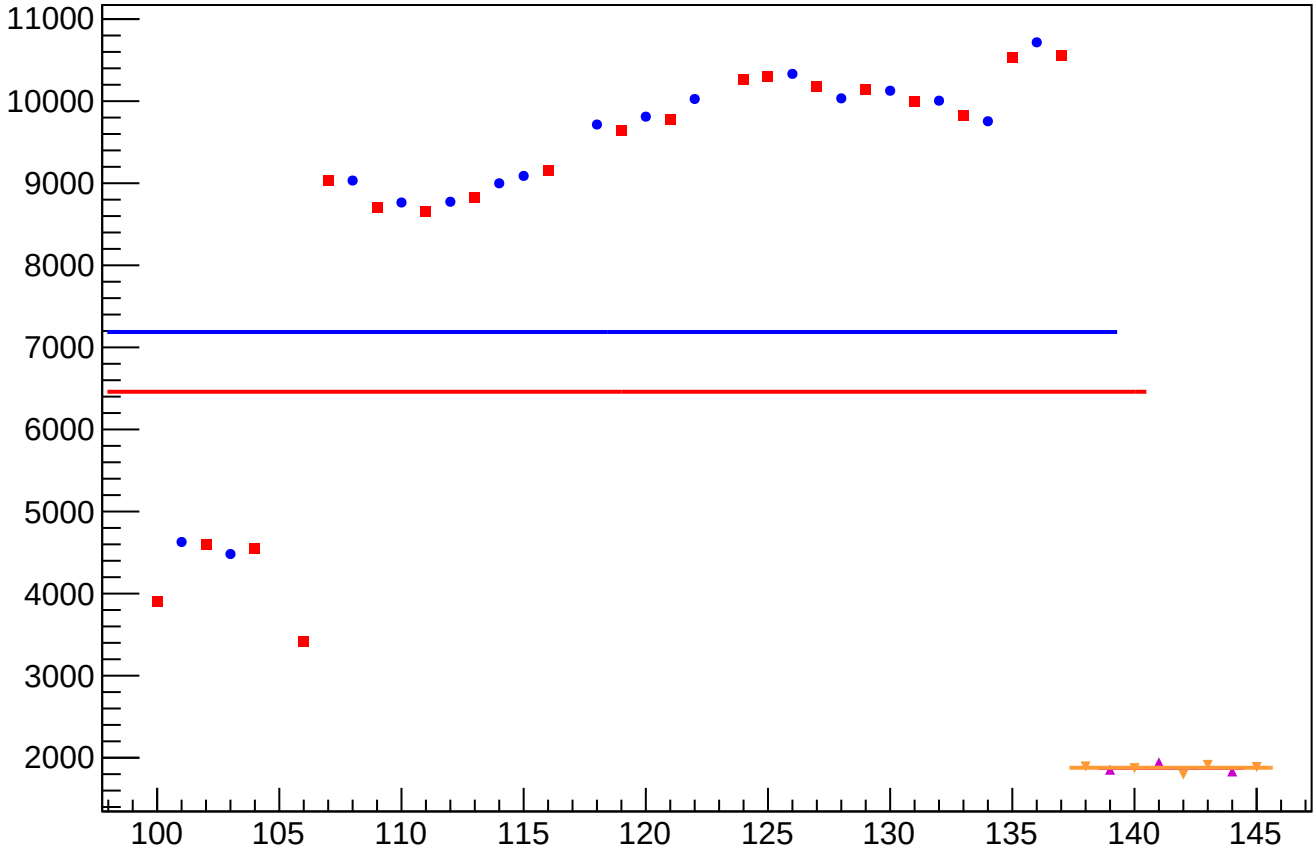
Right: -26.441+/-1.901 $\chi^2$/NDF: 264.2/34

In: 0.857+/-1.072 $\chi^2$/NDF:367.0/18

Out: 6.168+/-0.914 $\chi^2$/NDF:187.7/23

All: 3.932+/-0.695 $\chi^2$/NDF: 568.9/42

# diff_bpm0l04X_rms vs Slug, Sign Corrected




Right In: 7187.494+/-2.009 $\chi^2$/NDF: 1705887.0/15

Left Out: 1878.263+/-0.692 $\chi^2$/NDF:2610.3/4

Right Out: 6459.323+/-1.808 $\chi^2$/NDF: 2276337.9/18

Left In: 1874.917+/-0.818 $\chi^2$/NDF:3340.9/2

Left: 1876.868+/-0.528 $\chi^2$/NDF: 5960.9/7

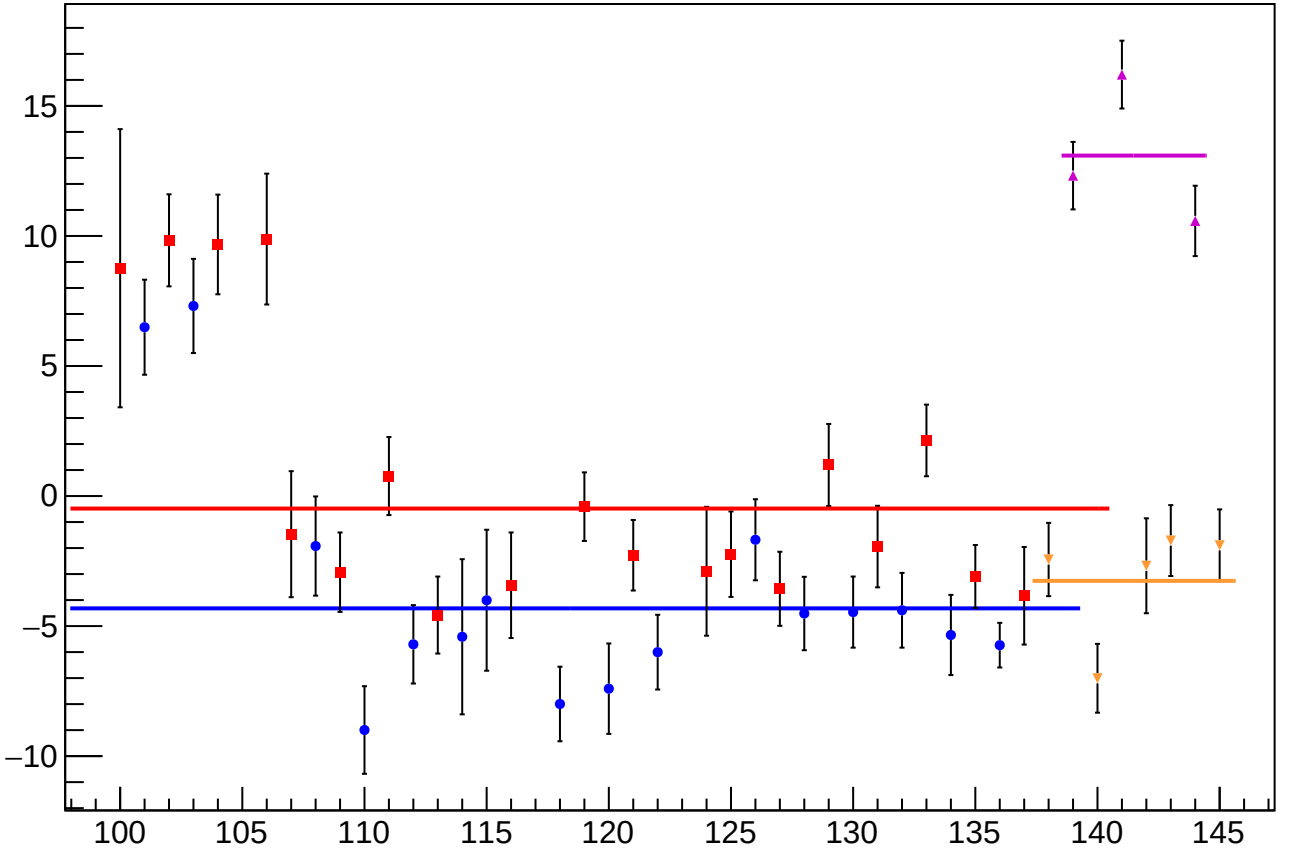
Right: 6785.150+/-1.344 $\chi^2$/NDF: 4054781.5/34

In: 2630.225+/-0.758 $\chi^2$/NDF:7705143.3/18

Out: 2462.902+/-0.646 $\chi^2$/NDF:7877741.8/23

All: 2533.335+/-0.492 $\chi^2$/NDF: 15611125.0/4

# diff_bpm0l04Y_mean vs Slug, Sign Corrected




Right In: -4.319+/-0.380 $\chi^2$/NDF: 103.7/15

Left Out: -3.262+/-0.641 $\chi^2$/NDF:10.7/4

Right Out: -0.481+/-0.379 $\chi^2$/NDF: 117.2/18

Left In: 13.091+/-0.761 $\chi^2$/NDF:9.5/2

Left: 3.523+/-0.490 $\chi^2$/NDF: 290.6/7

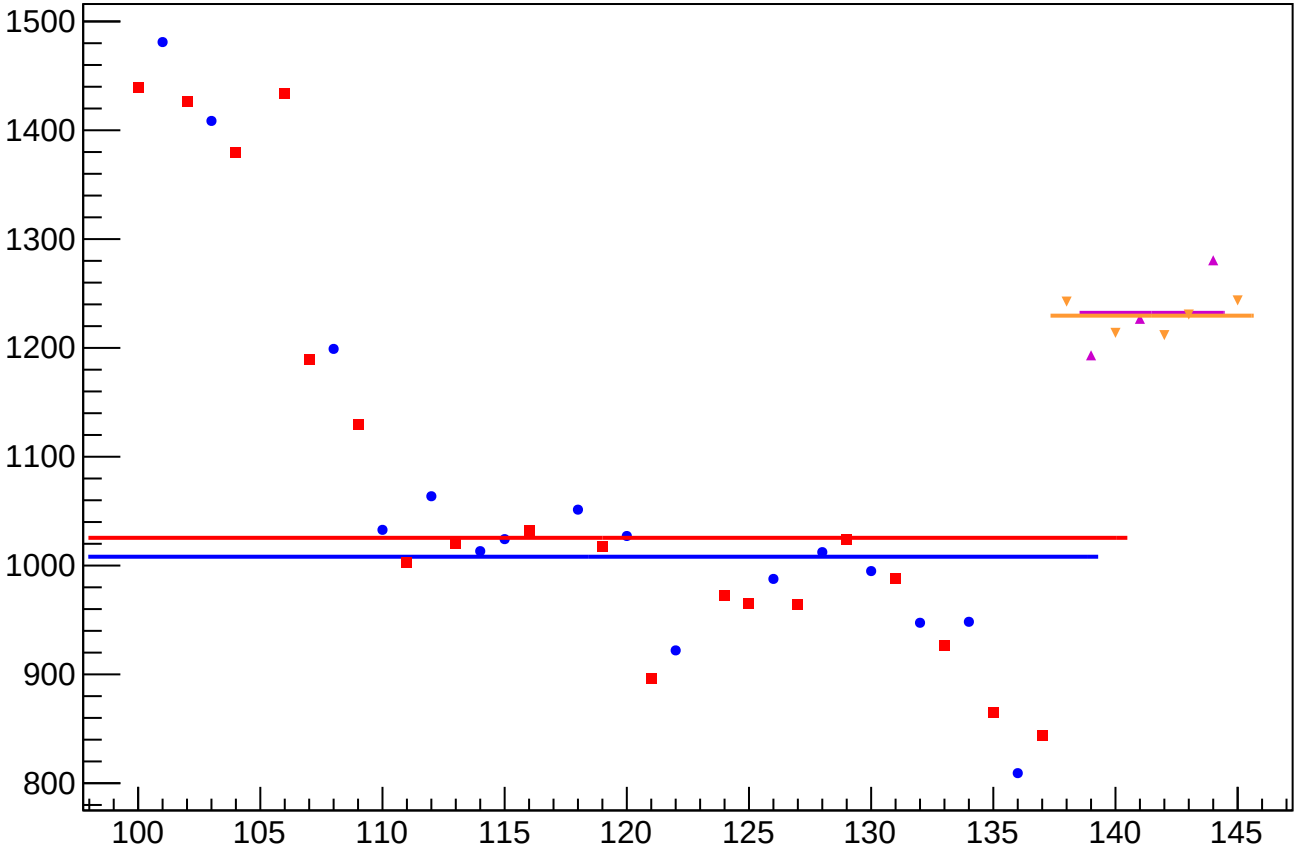
Right: -2.394+/-0.268 $\chi^2$/NDF: 272.1/34

In: -0.846+/-0.340 $\chi^2$/NDF:532.4/18

Out: -1.201+/-0.326 $\chi^2$/NDF:141.9/23

All: -1.031+/-0.235 $\chi^2$/NDF: 674.9/42

# diff_bpm0l04Y_rms vs Slug, Sign Corrected




Right In: 1008.116+/-0.269 $\chi^2$/NDF: 378836.2/15

Left Out: 1229.639+/-0.453 $\chi^2$/NDF:852.5/4

Right Out: 1025.486+/-0.268 $\chi^2$/NDF: 345991.2/18

Left In: 1232.230+/-0.538 $\chi^2$/NDF:4392.5/2

Left: 1230.714+/-0.346 $\chi^2$/NDF: 5258.5/7

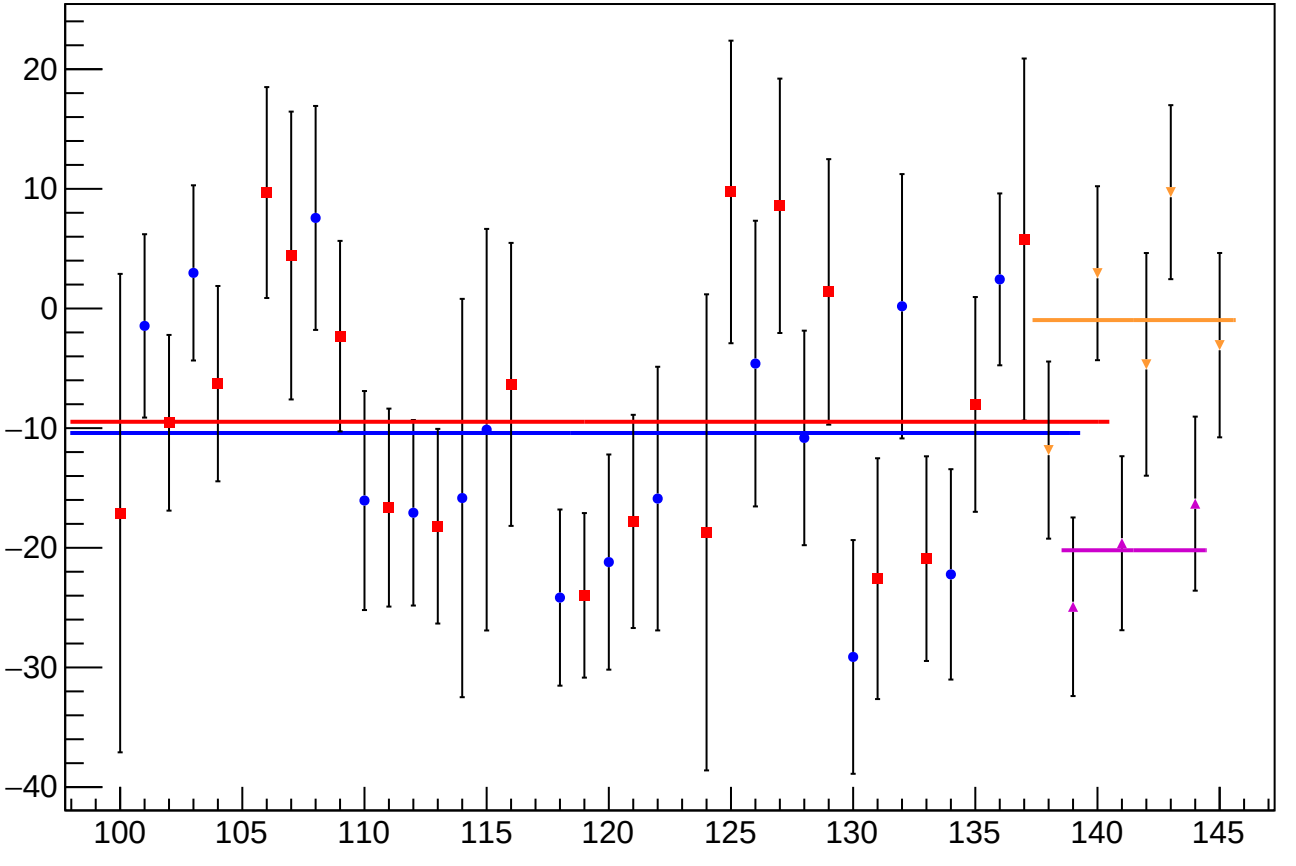
Right: 1016.826+/-0.190 $\chi^2$/NDF: 726925.8/34

In: 1052.819+/-0.240 $\chi^2$/NDF:522179.0/18

Out: 1078.347+/-0.230 $\chi^2$/NDF:497375.0/23

All: 1066.112+/-0.166 $\chi^2$/NDF: 1025433.0/42

# diff_bpm0l05X_mean vs Slug, Sign Corrected




Right In: -10.404+/-2.280 $\chi^2$/NDF: 24.6/15

Left Out: -0.968+/-3.440 $\chi^2$/NDF:4.8/4

Right Out: -9.467+/-2.191 $\chi^2$/NDF: 25.4/18

Left In: -20.205+/-4.234 $\chi^2$/NDF:0.7/2

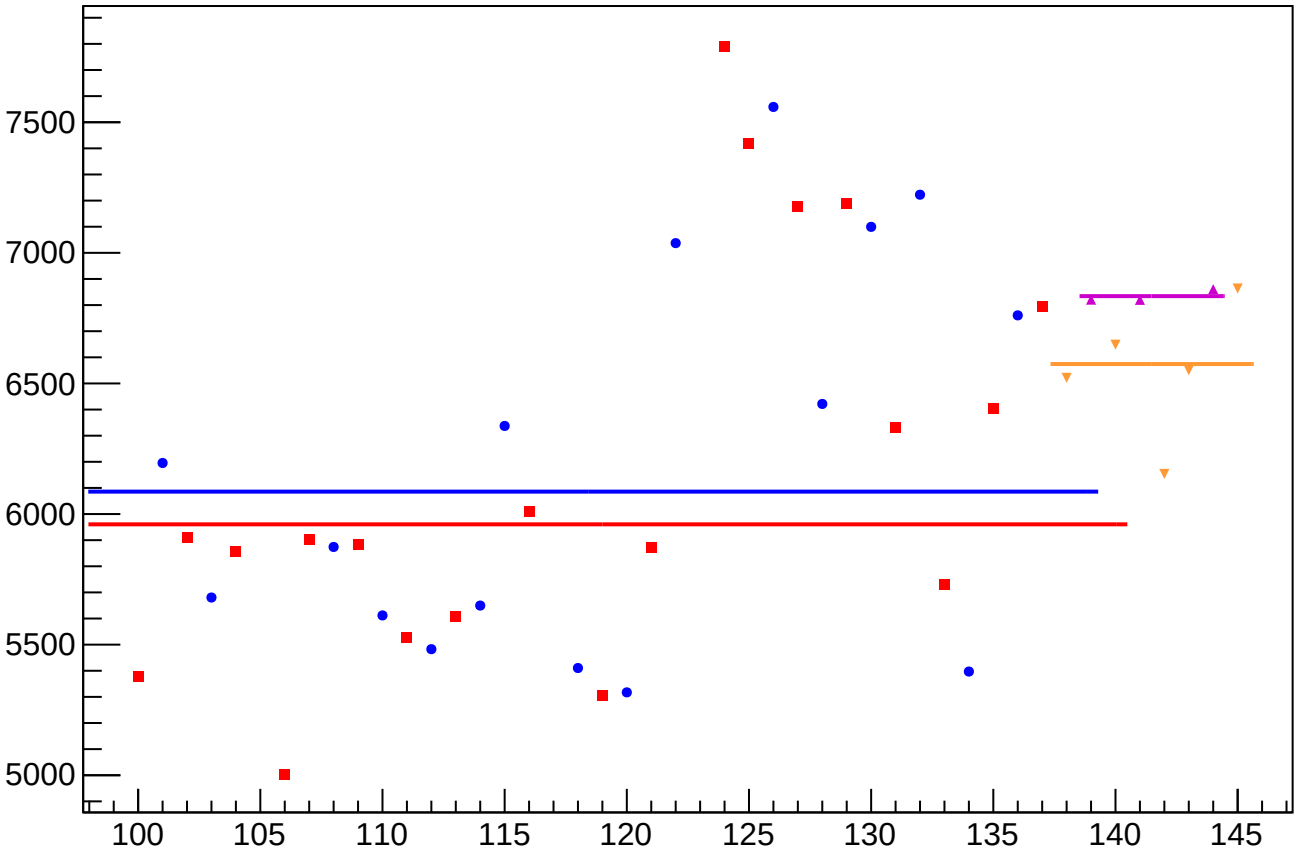
Left: -8.618+/-2.670 $\chi^2$/NDF: 18.0/7

Right: -9.917+/-1.580 $\chi^2$/NDF: 50.1/34

In: -12.607+/-2.007 $\chi^2$/NDF:29.5/18

Out: -7.015+/-1.848 $\chi^2$/NDF:34.5/23

All: -9.580+/-1.360 $\chi^2$/NDF: 68.2/42




Right In: 6085.873+/-1.612 $\chi^2$/NDF: 179118.8/15

Left Out: 6574.292+/-2.433 $\chi^2$/NDF:7237.8/4

Right Out: 5960.613+/-1.549 $\chi^2$/NDF: 162772.6/18

Left In: 6834.271+/-2.994 $\chi^2$/NDF:41.1/2

Left: 6677.672+/-1.888 $\chi^2$/NDF: 11820.1/7

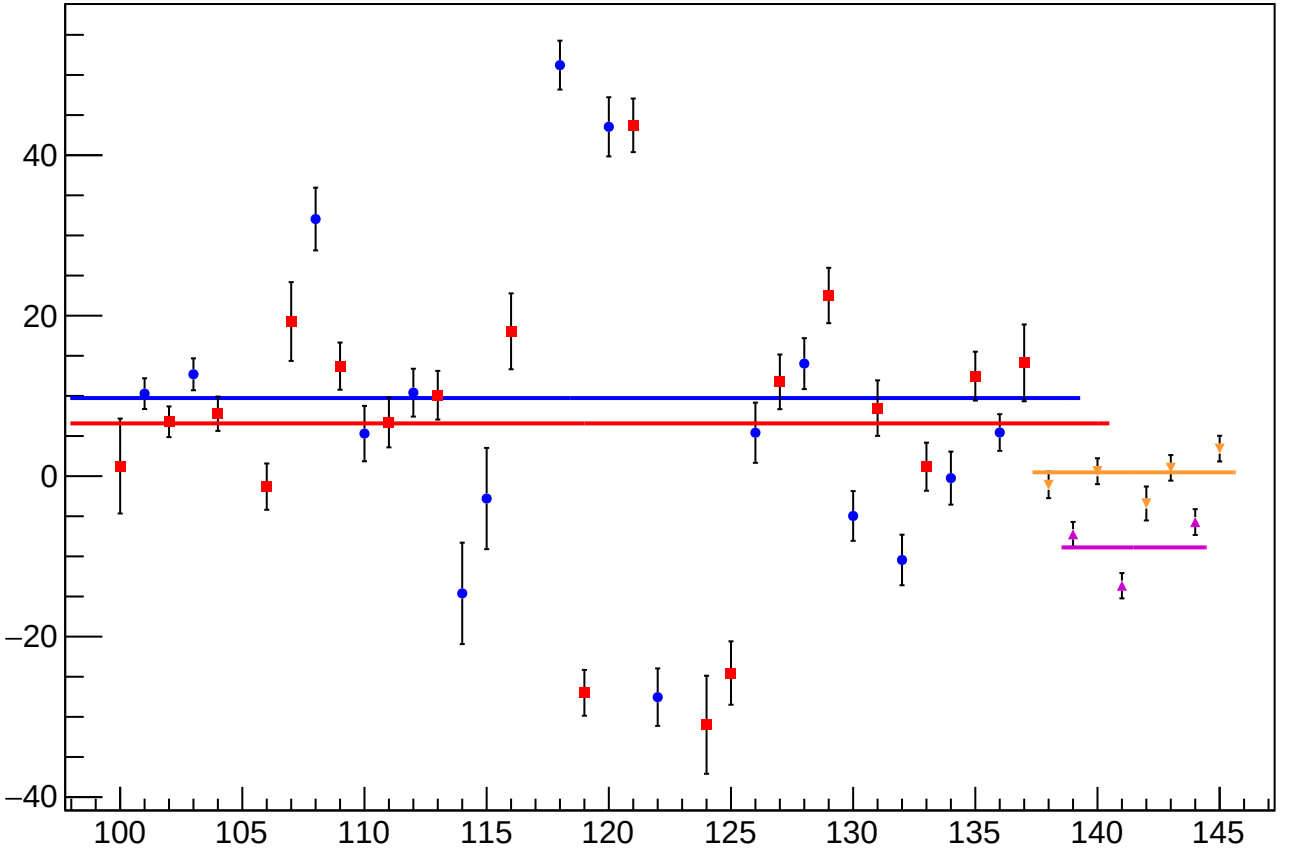
Right: 6020.747+/-1.117 $\chi^2$/NDF: 345029.9/34

In: 6254.085+/-1.420 $\chi^2$/NDF:227593.2/18

Out: 6137.671+/-1.307 $\chi^2$/NDF:215283.5/23

All: 6191.070+/-0.961 $\chi^2$/NDF: 446517.3/42

# diff_bpm0l05Y_mean vs Slug, Sign Corrected




Right In: 9.733+/-0.755 $\chi^2$/NDF: 512.4/15

Left Out: 0.473+/-0.755 $\chi^2$/NDF:7.8/4

Right Out: 6.576+/-0.730 $\chi^2$/NDF: 423.8/18

Left In: -8.883+/-0.909 $\chi^2$/NDF:14.1/2

Left: -3.345+/-0.581 $\chi^2$/NDF: 84.6/7

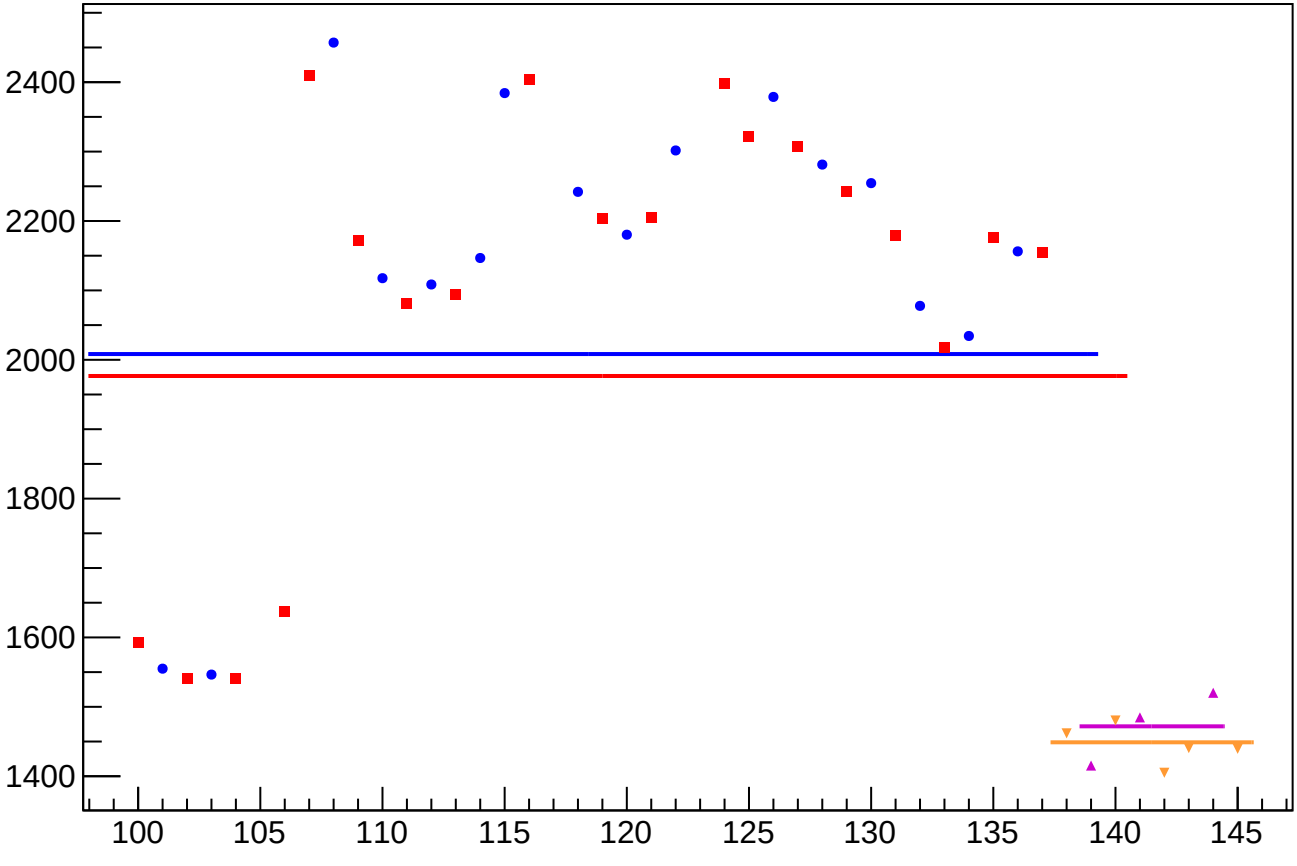
Right: 8.102+/-0.525 $\chi^2$/NDF: 945.2/34

In: 2.137+/-0.581 $\chi^2$/NDF:774.6/18

Out: 3.626+/-0.525 $\chi^2$/NDF:465.3/23

All: 2.956+/-0.389 $\chi^2$/NDF: 1243.6/42

# diff_bpm0l05Y_rms vs Slug, Sign Corrected




Right In: 2008.296+/-0.534 $\chi^2$/NDF: 344387.2/15

Left Out: 1448.871+/-0.534 $\chi^2$/NDF:1861.6/4

Right Out: 1976.677+/-0.516 $\chi^2$/NDF: 365375.1/18

Left In: 1471.900+/-0.643 $\chi^2$/NDF:4635.1/2

Left: 1458.268+/-0.411 $\chi^2$/NDF: 7256.2/7

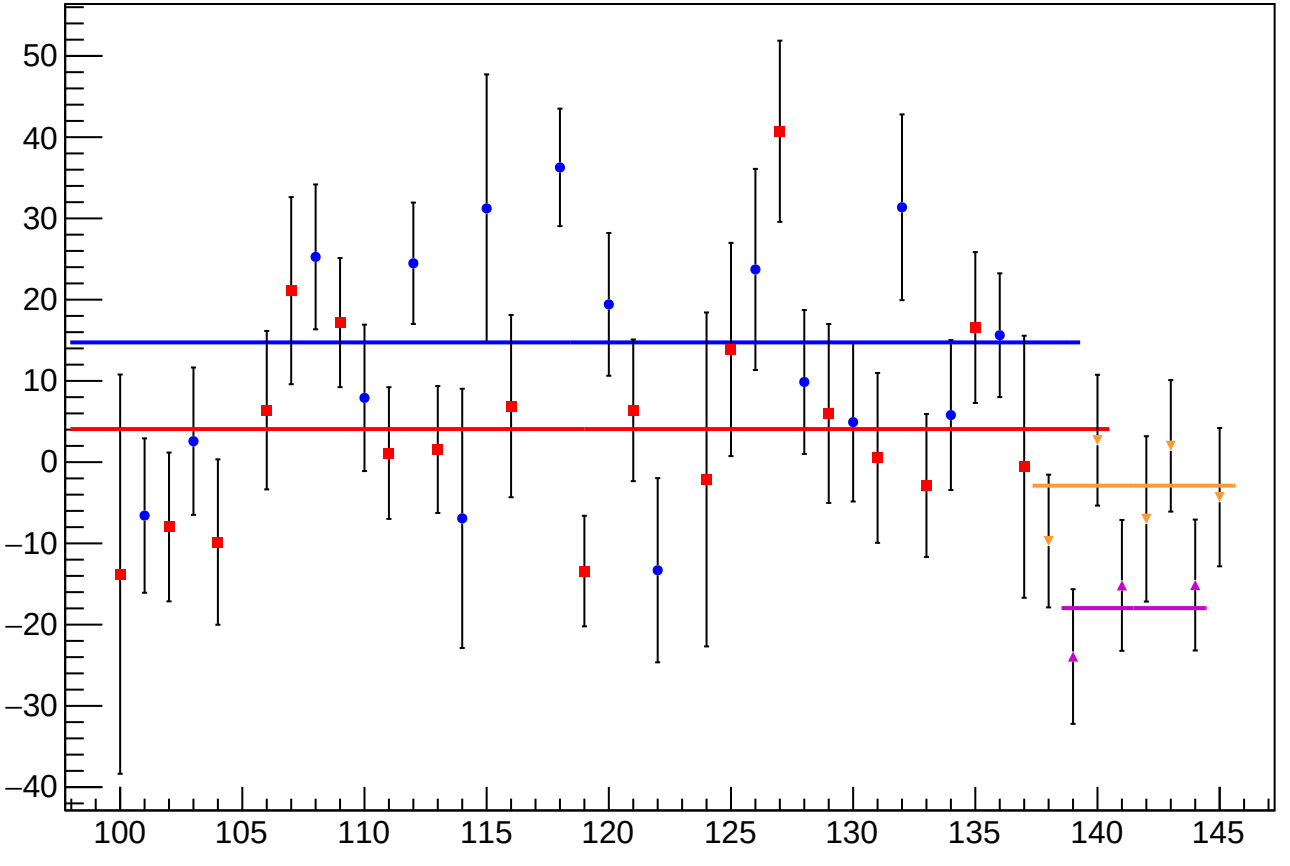
Right: 1991.963+/-0.371 $\chi^2$/NDF: 711574.8/34

In: 1789.432+/-0.411 $\chi^2$/NDF:761009.0/18

Out: 1721.521+/-0.371 $\chi^2$/NDF:872215.8/23

All: 1752.050+/-0.275 $\chi^2$/NDF: 1648274.2/42

# diff_bpm0l06X_mean vs Slug, Sign Corrected




Right In: 14.739+/-2.358 $\chi^2$/NDF: 33.5/15

Left Out: -2.893+/-3.804 $\chi^2$/NDF:1.7/4

Right Out: 4.072+/-2.274 $\chi^2$/NDF: 30.2/18

Left In: -17.963+/-4.694 $\chi^2$/NDF:0.8/2

Left: -8.867+/-2.955 $\chi^2$/NDF: 8.7/7

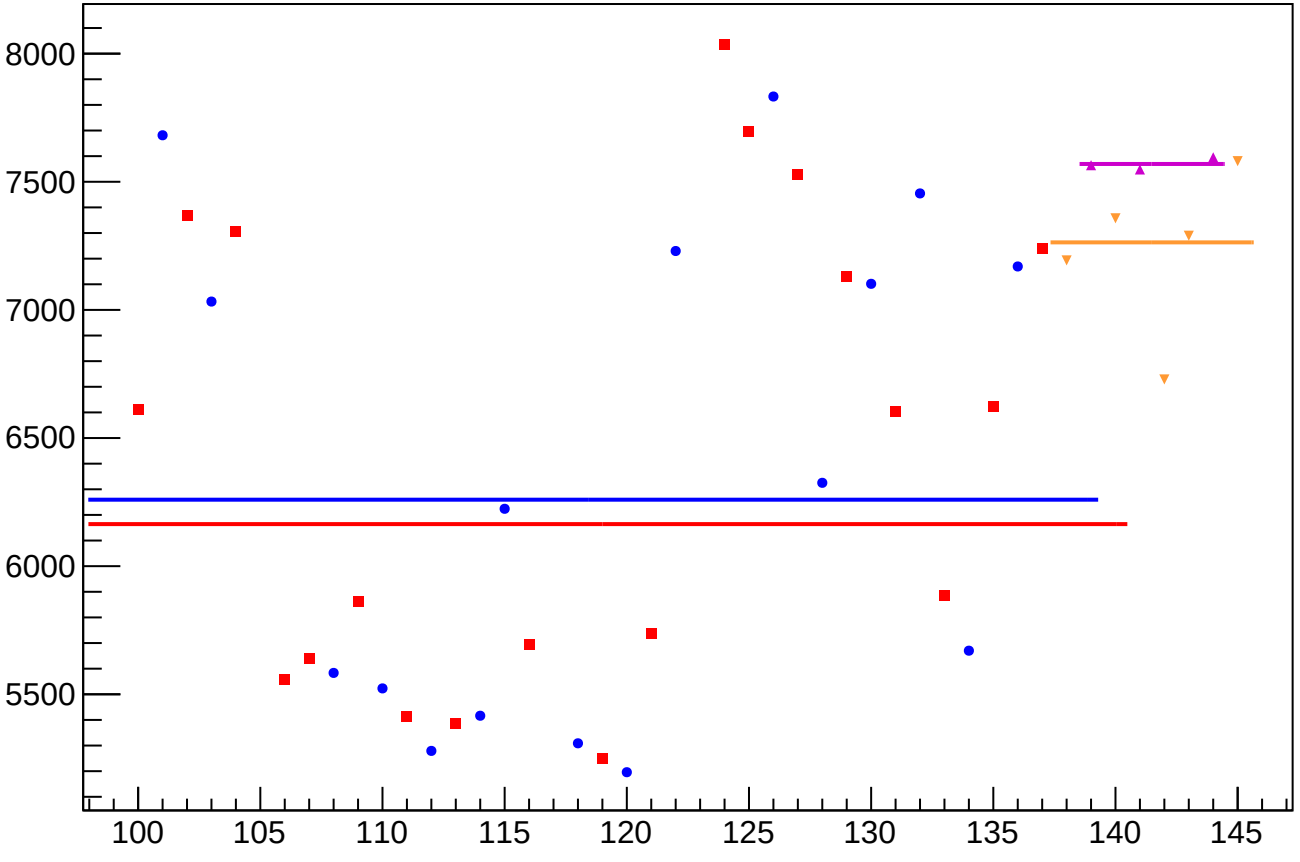
Right: 9.212+/-1.637 $\chi^2$/NDF: 74.3/34

In: 8.151+/-2.107 $\chi^2$/NDF:73.0/18

Out: 2.238+/-1.952 $\chi^2$/NDF:34.4/23

All: 4.969+/-1.432 $\chi^2$/NDF: 111.7/42

# diff_bpm0l06X_rms vs Slug, Sign Corrected




Right In: 6259.416+/-1.667 $\chi^2$/NDF: 308606.8/15

Left Out: 7263.525+/-2.690 $\chi^2$/NDF:8736.8/4

Right Out: 6164.140+/-1.608 $\chi^2$/NDF: 265058.6/18

Left In: 7569.489+/-3.319 $\chi^2$/NDF:35.7/2

Left: 7384.805+/-2.090 $\chi^2$/NDF: 13901.8/7

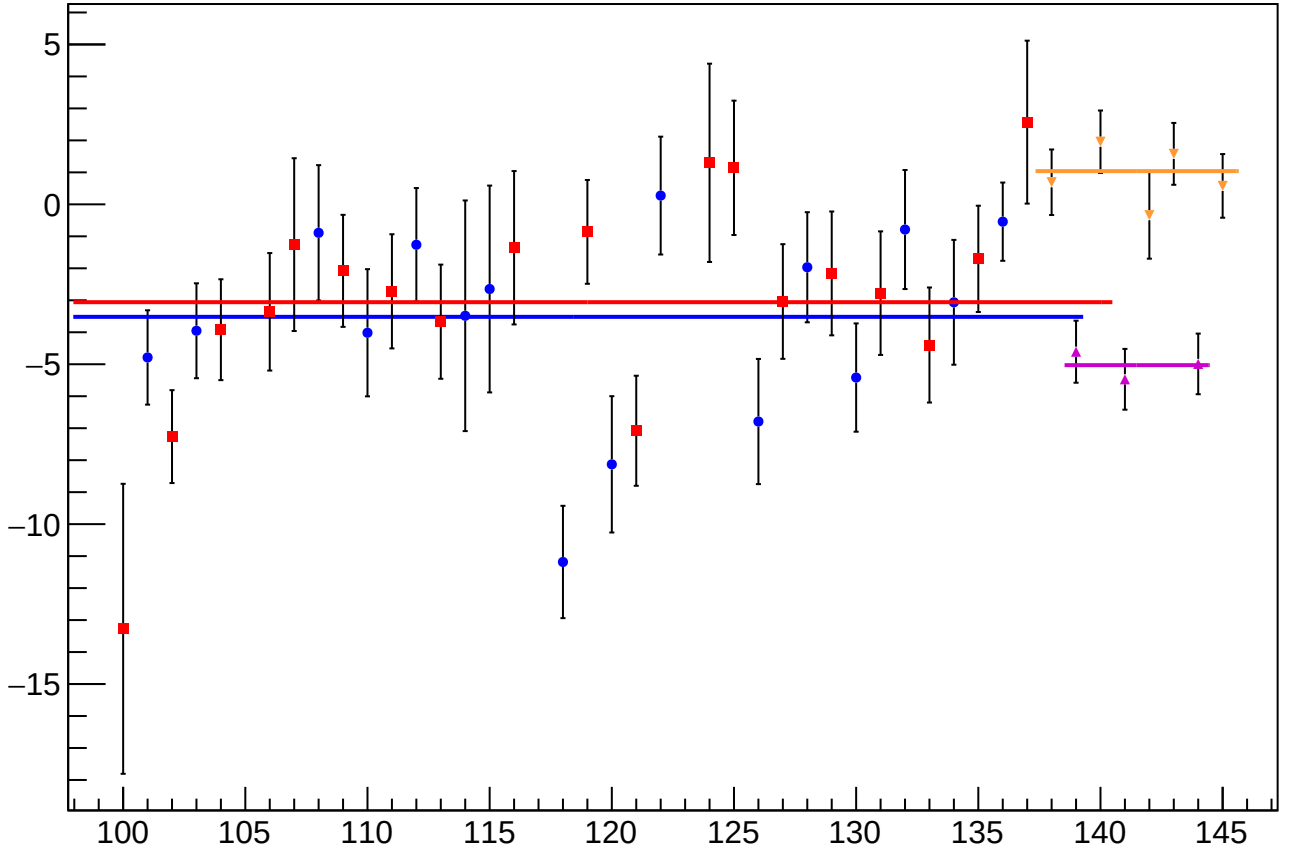
Right: 6210.053+/-1.157 $\chi^2$/NDF: 575357.6/34

In: 6523.337+/-1.490 $\chi^2$/NDF:433050.5/18

Out: 6453.558+/-1.380 $\chi^2$/NDF:396884.2/23

All: 6485.783+/-1.012 $\chi^2$/NDF: 831115.5/42

# diff_bpm0l06Y_mean vs Slug, Sign Corrected




Right In: -3.518+/-0.452 $\chi^2$/NDF: 45.1/15

Left Out: 1.039+/-0.465 $\chi^2$/NDF:2.6/4

Right Out: -3.059+/-0.438 $\chi^2$/NDF: 34.8/18

Left In: -5.028+/-0.552 $\chi^2$/NDF:0.4/2

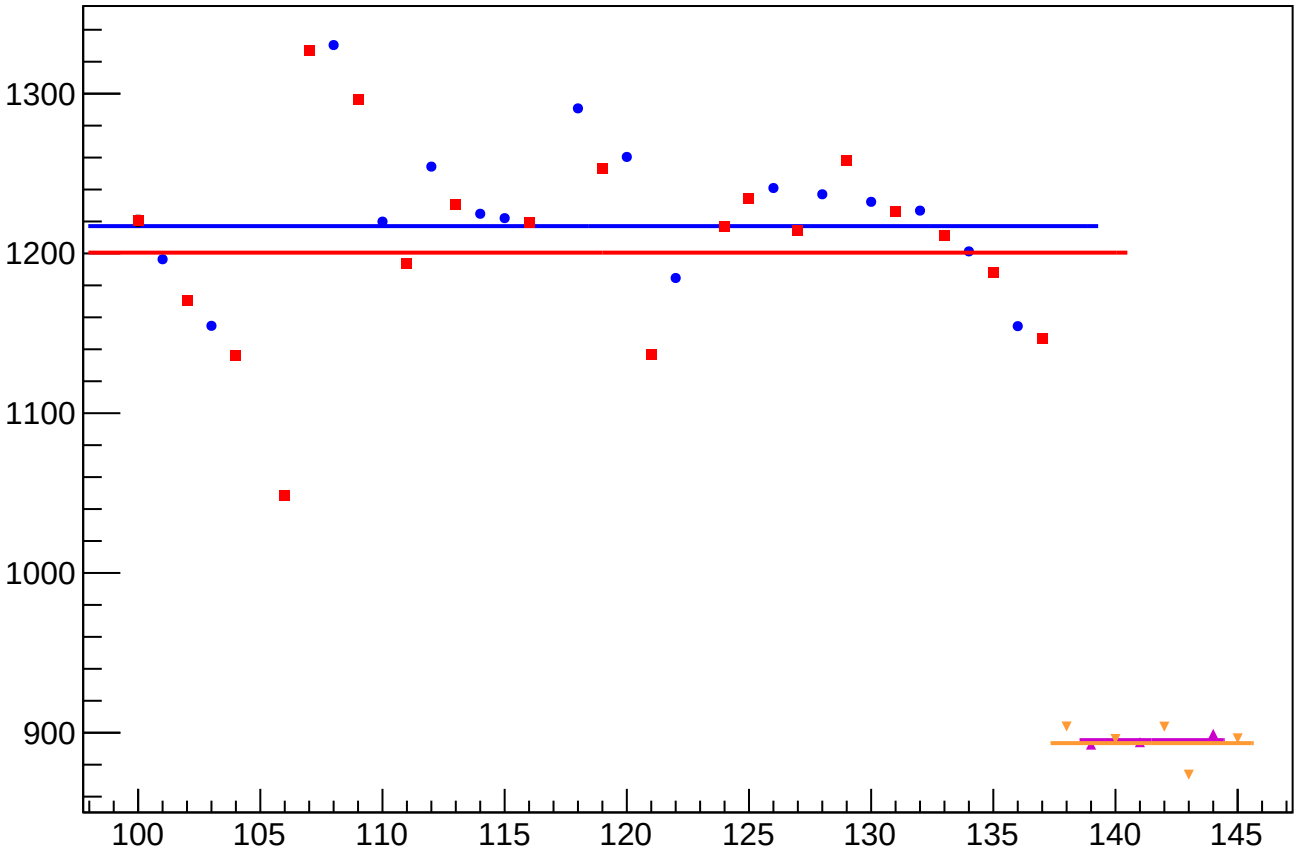
Left: -1.481+/-0.356 $\chi^2$/NDF: 73.6/7

Right: -3.281+/-0.315 $\chi^2$/NDF: 80.4/34

In: -4.125+/-0.350 $\chi^2$/NDF:50.0/18

Out: -1.132+/-0.319 $\chi^2$/NDF:78.5/23

All: -2.491+/-0.236 $\chi^2$/NDF: 168.4/42




Right In: 1217.094+/-0.320 $\chi^2$/NDF: 21686.7/15

Left Out: 893.490+/-0.329 $\chi^2$/NDF:1185.9/4

Right Out: 1200.497+/-0.310 $\chi^2$/NDF: 37654.3/18

Left In: 895.366+/-0.390 $\chi^2$/NDF:54.2/2

Left: 894.270+/-0.252 $\chi^2$/NDF: 1253.7/7

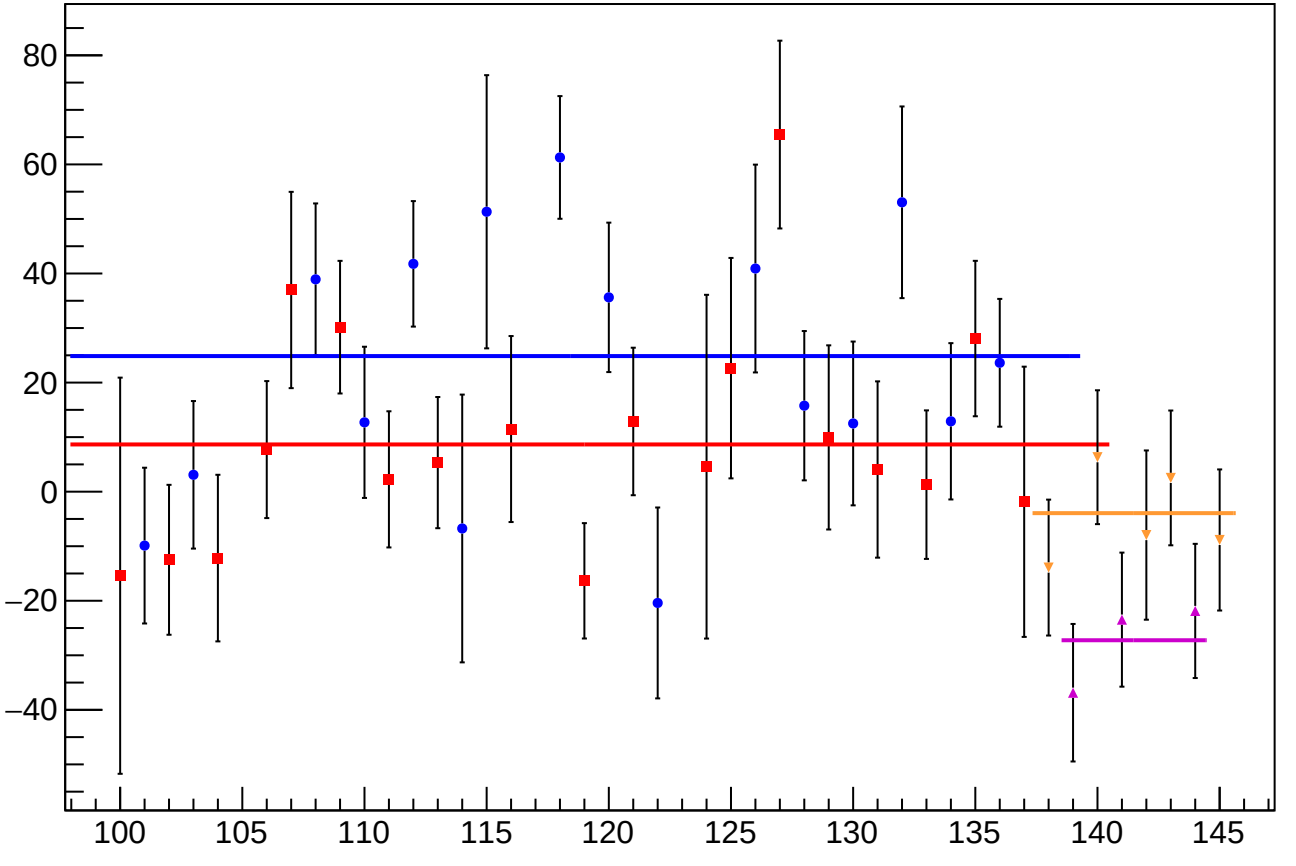
Right: 1208.533+/-0.223 $\chi^2$/NDF: 60729.4/34

In: 1087.811+/-0.247 $\chi^2$/NDF:428178.7/18

Out: 1056.126+/-0.226 $\chi^2$/NDF:500189.8/23

All: 1070.510+/-0.167 $\chi^2$/NDF: 937323.7/42

# diff_bpm0l07X_mean vs Slug, Sign Corrected




Right In: 24.860+/-3.628 $\chi^2$/NDF: 38.1/15

Left Out: -3.936+/-5.796 $\chi^2$/NDF:1.8/4

Right Out: 8.658+/-3.454 $\chi^2$/NDF: 30.1/18

Left In: -27.240+/-7.157 $\chi^2$/NDF:0.9/2

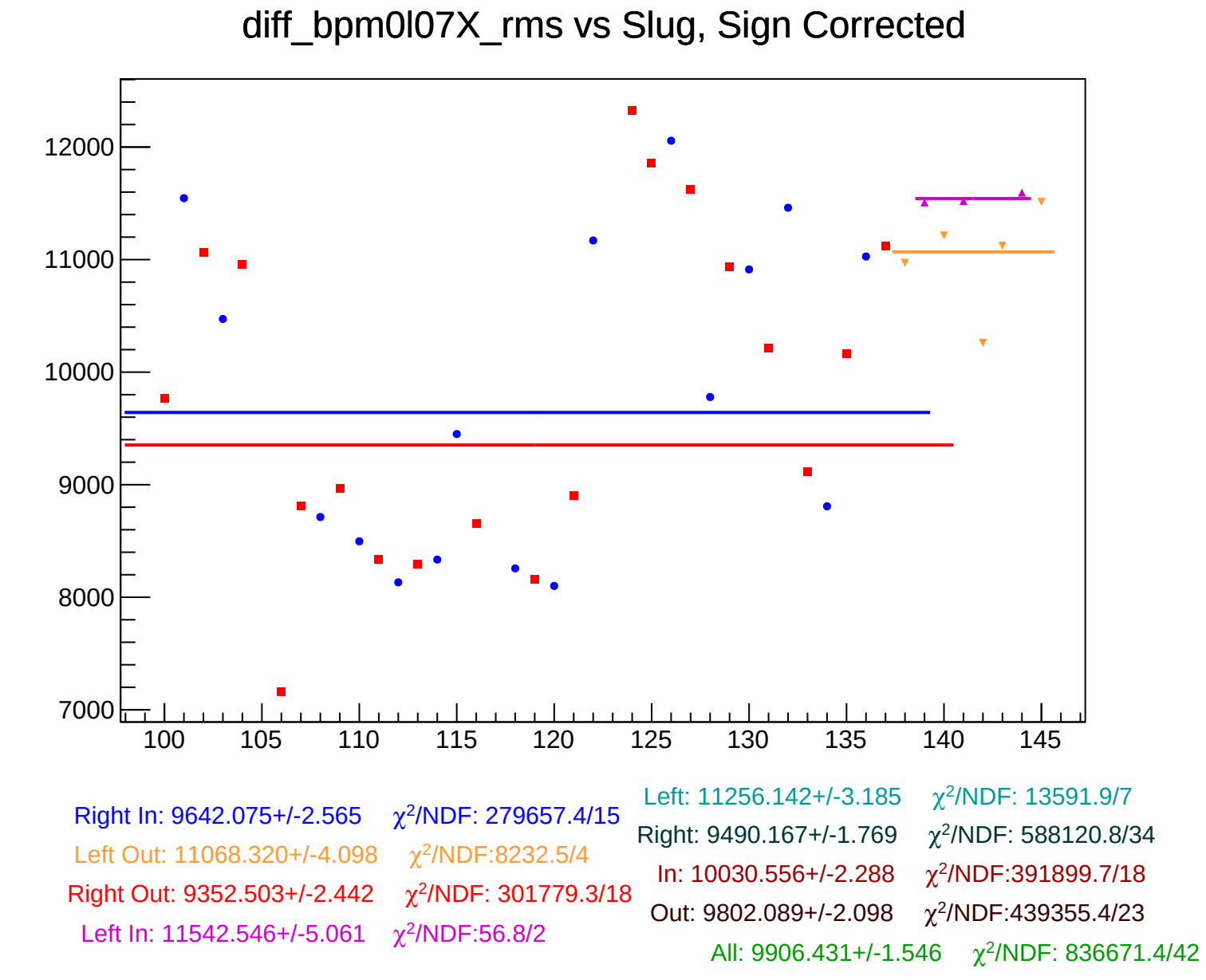
Left: -13.166+/-4.504 $\chi^2$/NDF: 9.1/7

Right: 16.361+/-2.501 $\chi^2$/NDF: 78.7/34

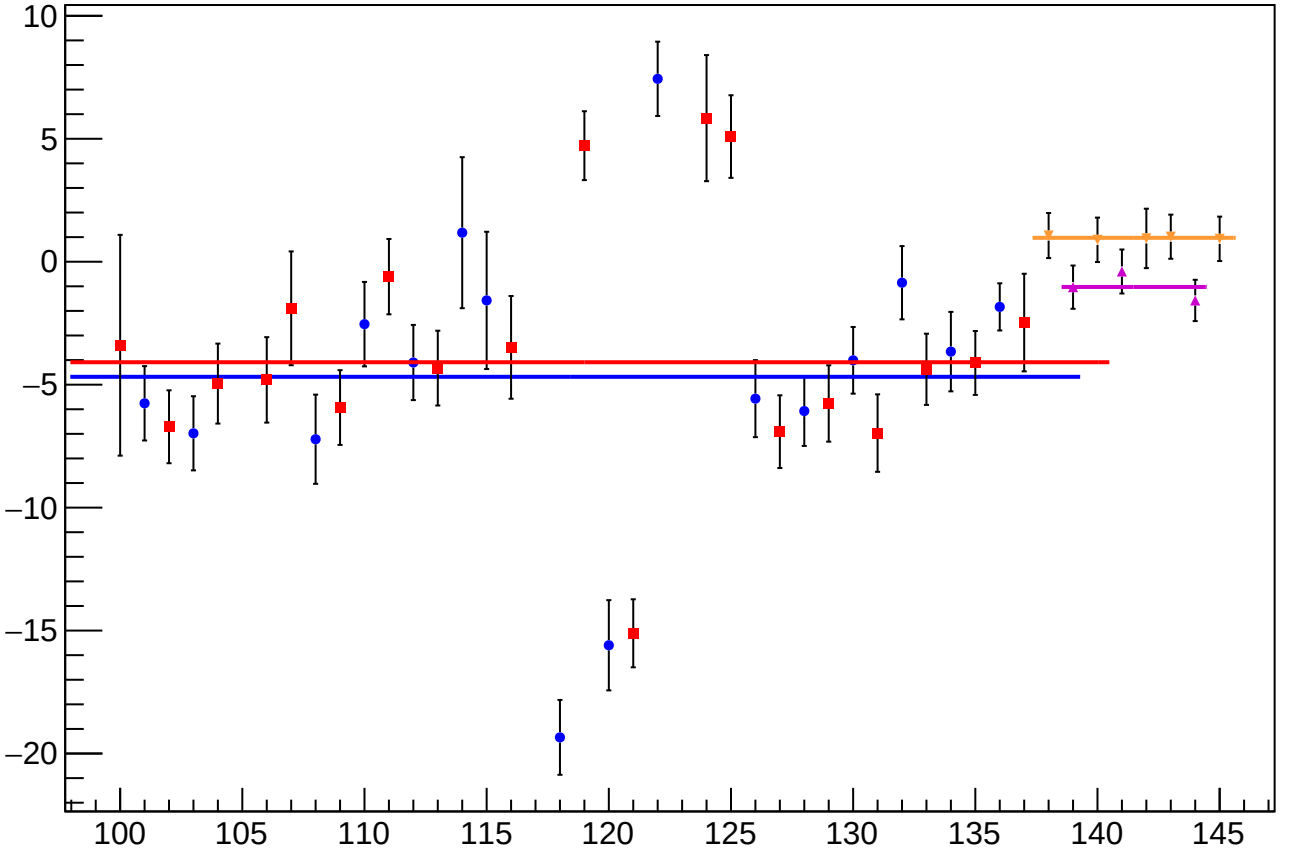
In: 14.210+/-3.236 $\chi^2$/NDF:81.2/18

Out: 5.358+/-2.967 $\chi^2$/NDF:35.4/23

All: 9.401+/-2.187 $\chi^2$/NDF: 120.7/42


diff_bpm0l07X_rms vs Slug, Sign Corrected
12000
11000
10000
9000
8000
7000
100
105
110
115
120
125
130
135
140
145
Right In: 9642.075+/-2.565 χ²/NDF: 279657.4/15
Left Out: 11068.320+/-4.098 χ²/NDF:8232.5/4
Right Out: 9352.503+/-2.442 χ²/NDF: 301779.3/18
Left In: 11542.546+/-5.061 χ²/NDF:56.8/2
Left: 11256.142+/-3.185 χ²/NDF: 13591.9/7
Right: 9490.167+/-1.769 χ²/NDF: 588120.8/34
In: 10030.556+/-2.288 χ²/NDF:391899.7/18
Out: 9802.089+/-2.098 χ²/NDF:439355.4/23
All: 9906.431+/-1.546 χ²/NDF: 836671.4/42

# diff_bpm0l07Y_mean vs Slug, Sign Corrected




Right In: -4.681+/-0.386 $\chi^2$/NDF: 221.2/15

Left Out: 0.972+/-0.424 $\chi^2$/NDF:0.0/4

Right Out: -4.087+/-0.376 $\chi^2$/NDF: 168.1/18

Left In: -1.027+/-0.502 $\chi^2$/NDF:0.9/2

Left: 0.141+/-0.324 $\chi^2$/NDF: 10.2/7

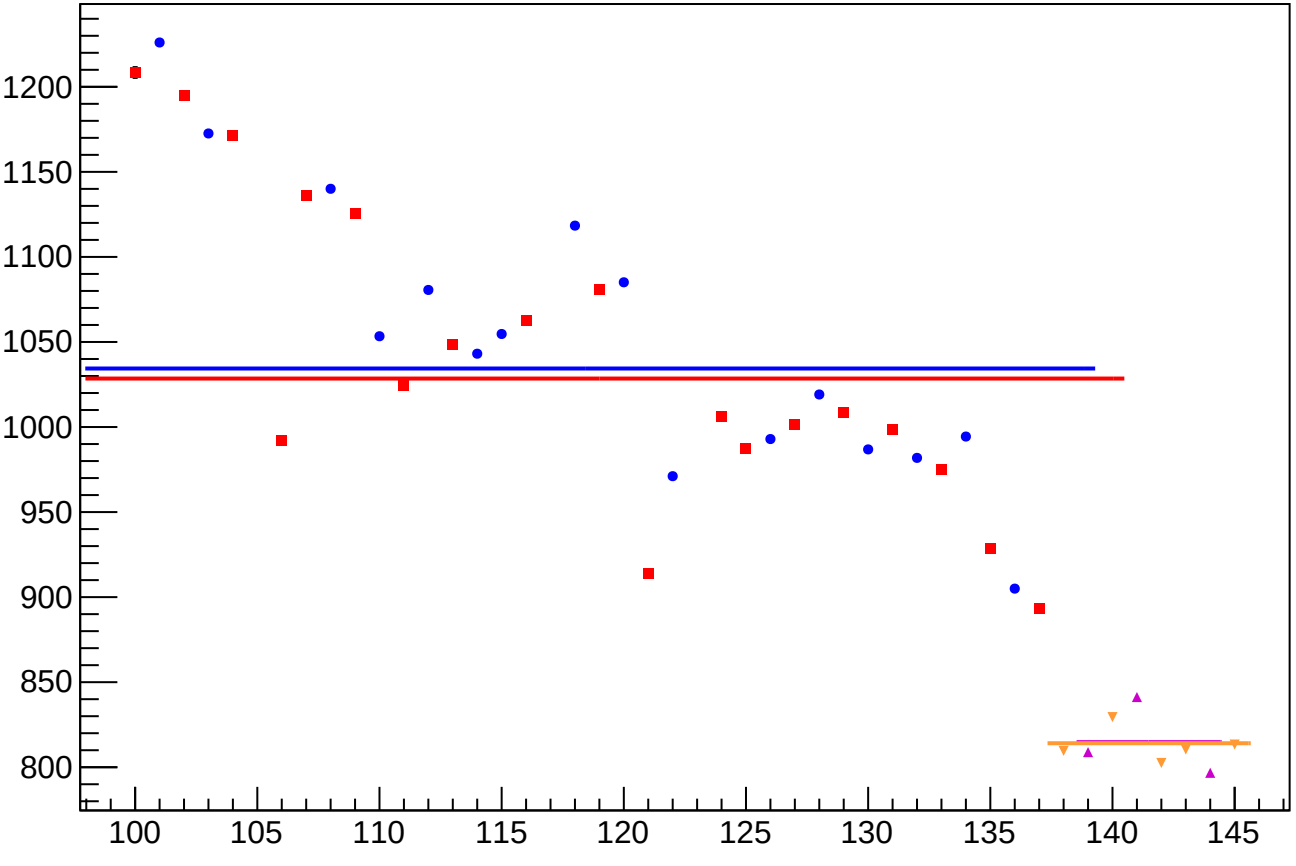
Right: -4.376+/-0.269 $\chi^2$/NDF: 390.5/34

In: -3.325+/-0.306 $\chi^2$/NDF:255.4/18

Out: -1.856+/-0.281 $\chi^2$/NDF:247.8/23

All: -2.529+/-0.207 $\chi^2$/NDF: 515.6/42

# diff_bpm0l07Y_rms vs Slug, Sign Corrected




Right In: 1034.402+/-0.273 $\chi^2$/NDF: 113278.6/15

Left Out: 814.109+/-0.300 $\chi^2$/NDF:844.9/4

Right Out: 1028.501+/-0.266 $\chi^2$/NDF: 101624.8/18

Left In: 814.757+/-0.355 $\chi^2$/NDF:2768.1/2

Left: 814.378+/-0.229 $\chi^2$/NDF: 3615.0/7

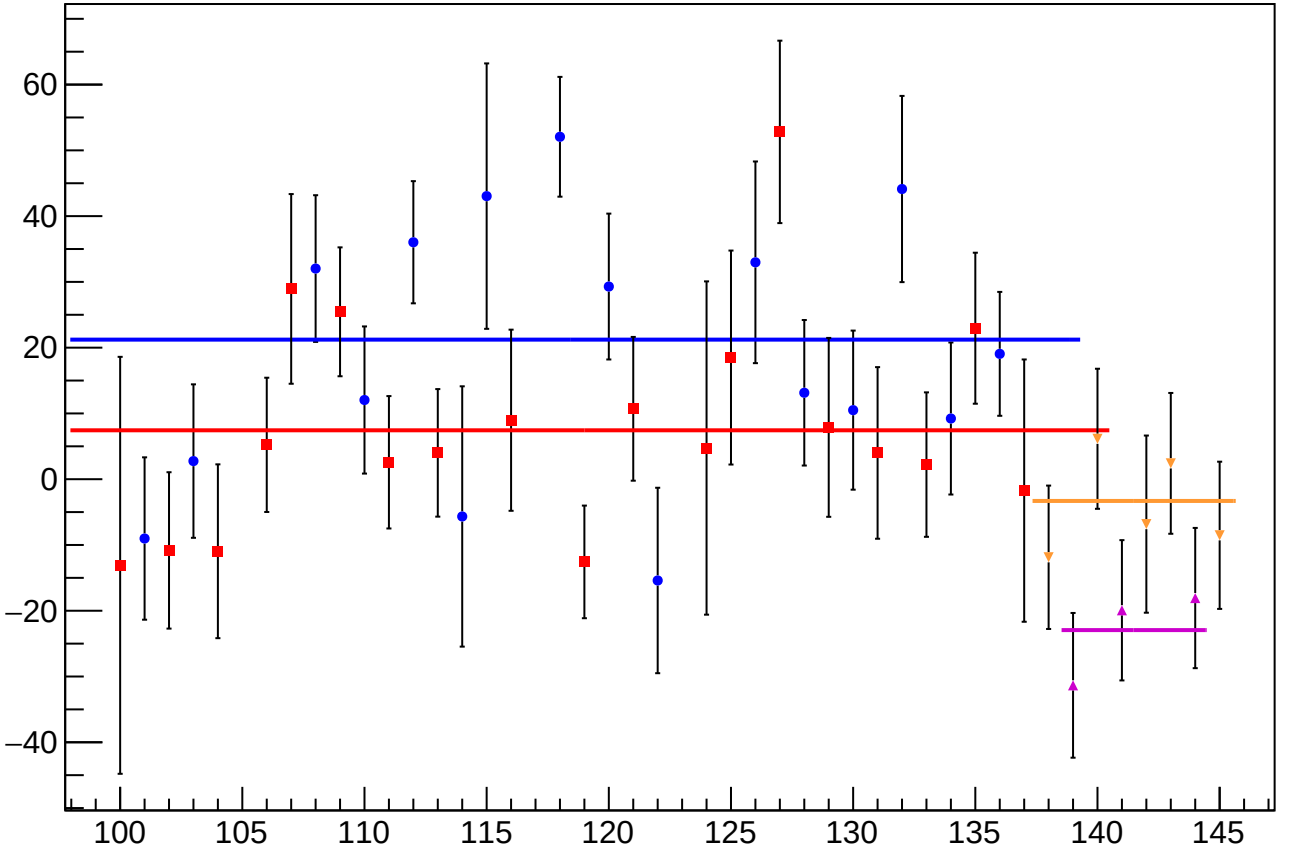
Right: 1031.379+/-0.190 $\chi^2$/NDF: 215143.2/34

In: 952.931+/-0.216 $\chi^2$/NDF:356523.3/18

Out: 933.951+/-0.199 $\chi^2$/NDF:388644.0/23

All: 942.648+/-0.146 $\chi^2$/NDF: 749336.7/42

# diff_bpm0l08X_mean vs Slug, Sign Corrected




Right In: 21.222+/-2.952 $\chi^2$/NDF: 40.1/15

Left Out: -3.306+/-5.034 $\chi^2$/NDF:2.0/4

Right Out: 7.435+/-2.810 $\chi^2$/NDF: 29.8/18

Left In: -22.943+/-6.220 $\chi^2$/NDF:0.9/2

Left: -11.079+/-3.913 $\chi^2$/NDF: 8.9/7

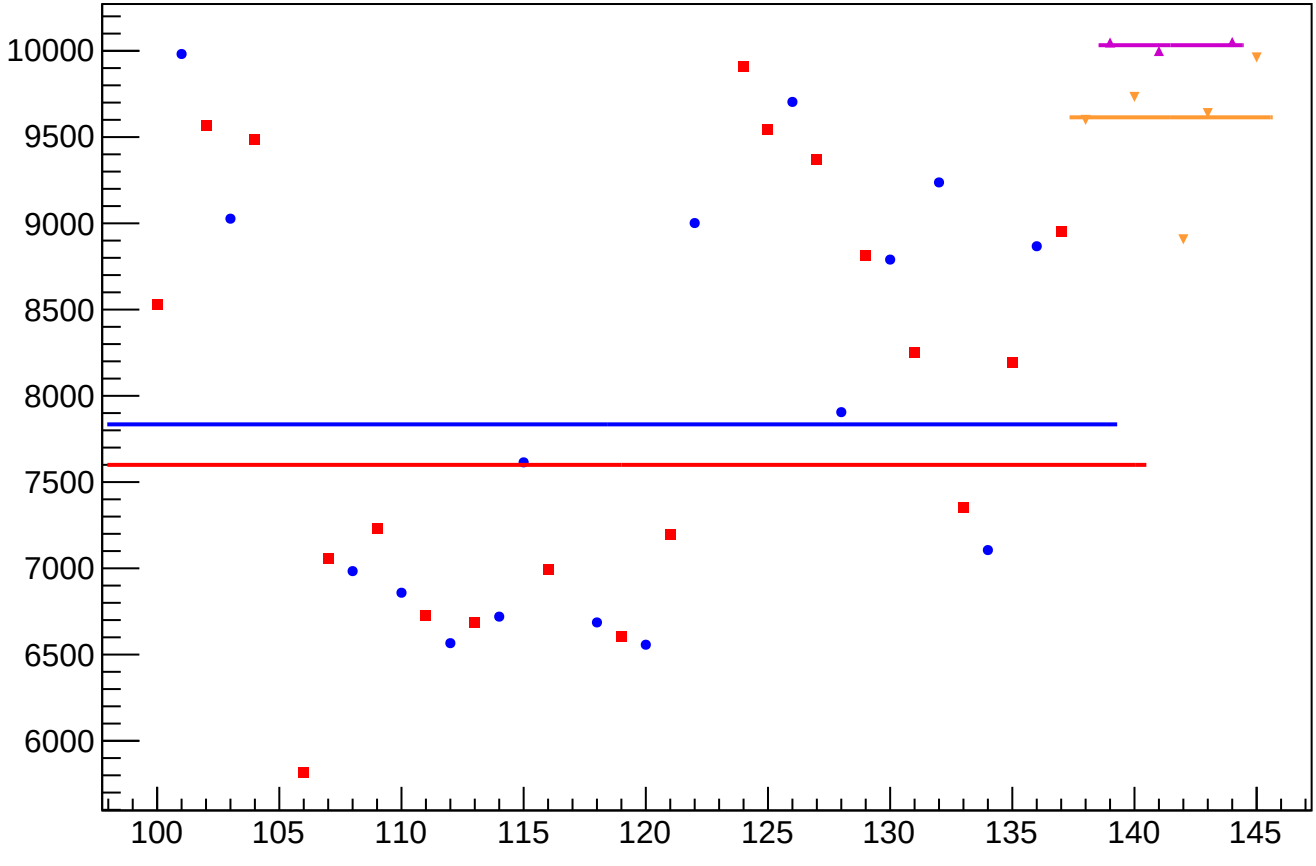
Right: 13.990+/-2.035 $\chi^2$/NDF: 81.3/34

In: 13.104+/-2.667 $\chi^2$/NDF:82.1/18

Out: 4.883+/-2.454 $\chi^2$/NDF:35.2/23

All: 8.653+/-1.806 $\chi^2$/NDF: 122.5/42

# diff_bpm0l08X_rms vs Slug, Sign Corrected




Right In: 7834.618+/-2.087 $\chi^2$/NDF: 318089.6/15

Left Out: 9614.646+/-3.560 $\chi^2$/NDF:7700.2/4

Right Out: 7599.749+/-1.987 $\chi^2$/NDF: 344296.8/18

Left In: 10032.712+/-4.398 $\chi^2$/NDF:30.2/2

Left: 9780.122+/-2.767 $\chi^2$/NDF: 13189.3/7

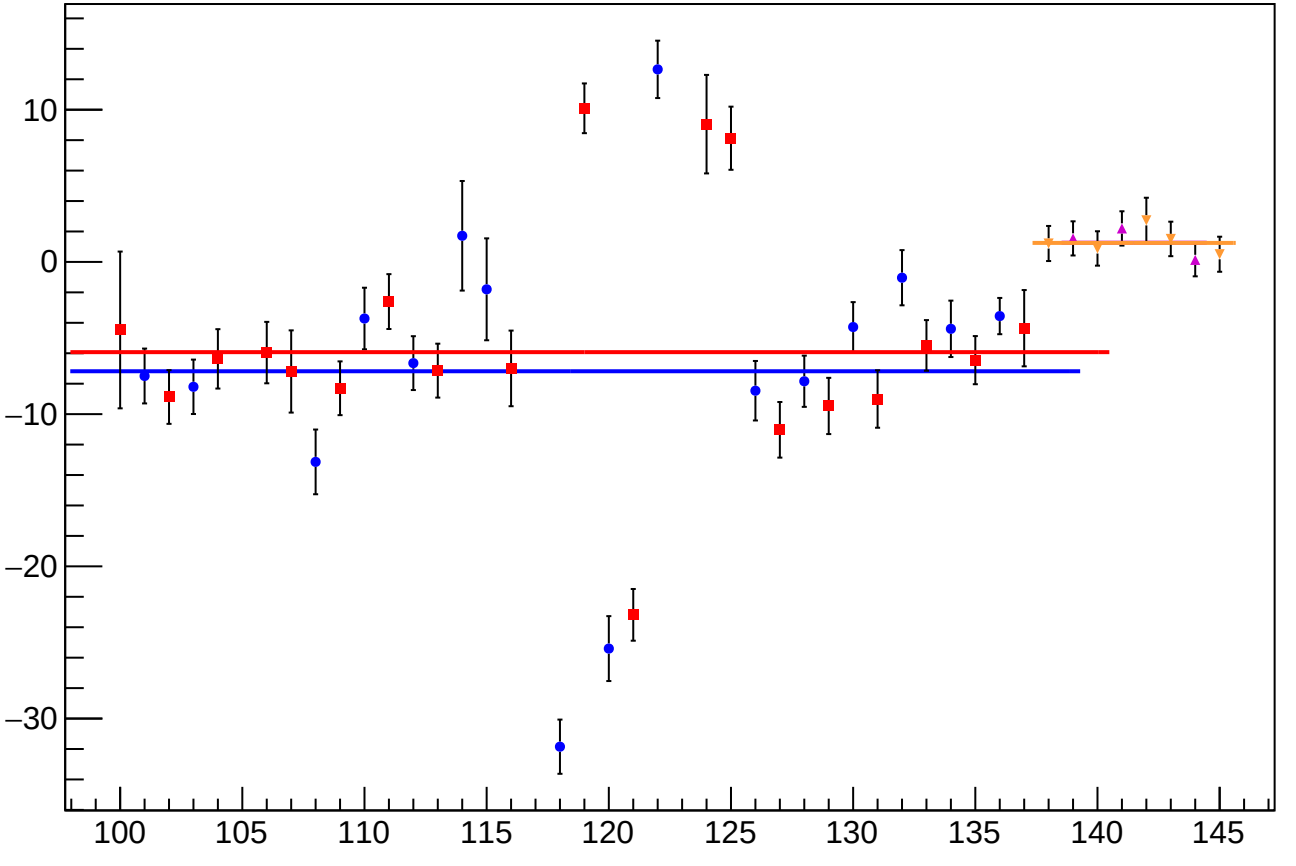
Right: 7711.419+/-1.439 $\chi^2$/NDF: 669028.2/34

In: 8238.657+/-1.886 $\chi^2$/NDF:521977.0/18

Out: 8078.434+/-1.735 $\chi^2$/NDF:596242.6/23

All: 8151.896+/-1.277 $\chi^2$/NDF: 1122129.0/42

# diff_bpm0l08Y_mean vs Slug, Sign Corrected




Right In: -7.183+/-0.462 $\chi^2$/NDF: 422.2/15

Left Out: 1.249+/-0.533 $\chi^2$/NDF:1.6/4

Right Out: -5.927+/-0.449 $\chi^2$/NDF: 290.4/18

Left In: 1.262+/-0.640 $\chi^2$/NDF:1.8/2

Left: 1.255+/-0.410 $\chi^2$/NDF: 3.4/7

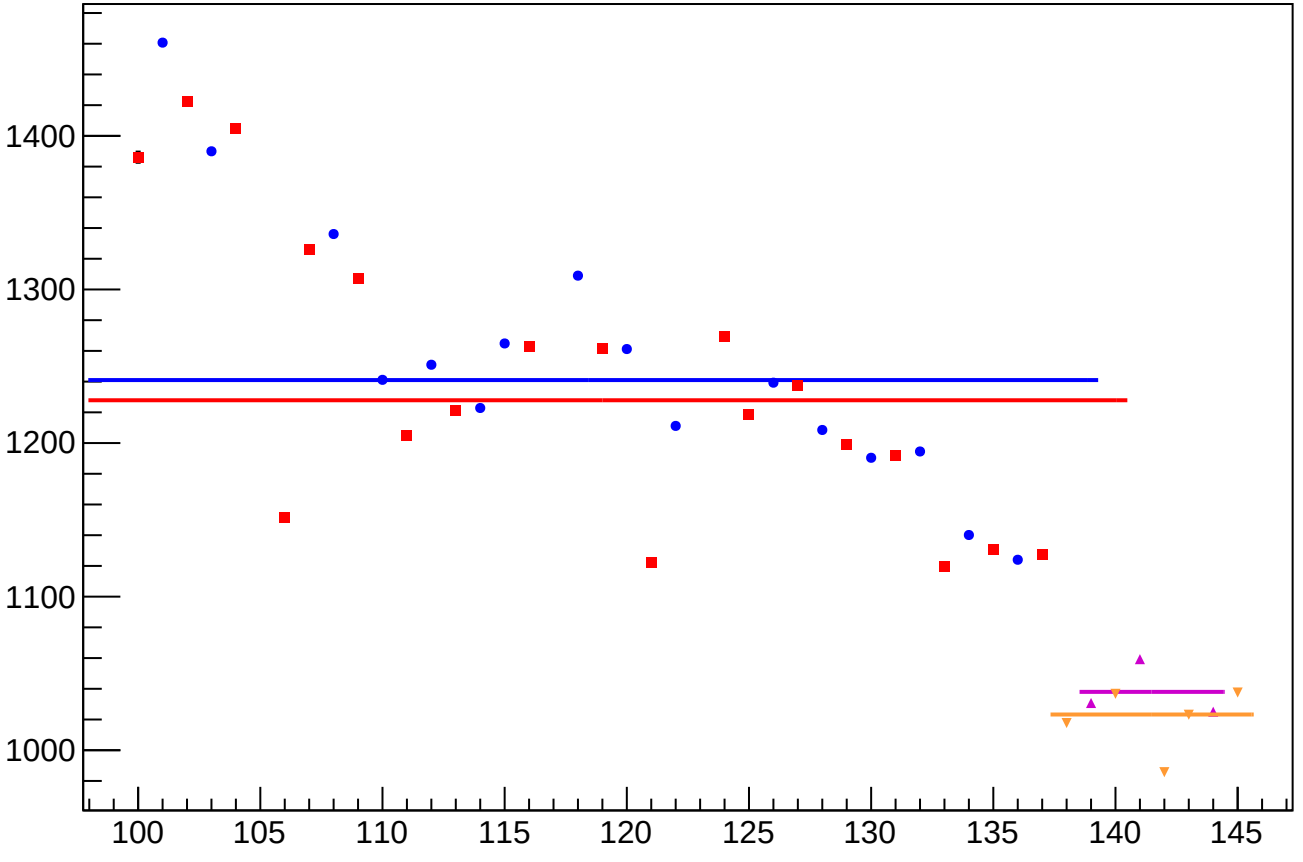
Right: -6.537+/-0.322 $\chi^2$/NDF: 716.4/34

In: -4.289+/-0.375 $\chi^2$/NDF:538.4/18

Out: -2.946+/-0.343 $\chi^2$/NDF:398.0/23

All: -3.559+/-0.253 $\chi^2$/NDF: 943.4/42

# diff_bpm0l08Y_rms vs Slug, Sign Corrected




Right In: 1241.007+/-0.327 $\chi^2$/NDF: 80653.5/15

Left Out: 1023.260+/-0.377 $\chi^2$/NDF:1918.6/4

Right Out: 1227.864+/-0.318 $\chi^2$/NDF: 82339.2/18

Left In: 1037.993+/-0.453 $\chi^2$/NDF:1084.0/2

Left: 1029.286+/-0.290 $\chi^2$/NDF: 3628.1/7

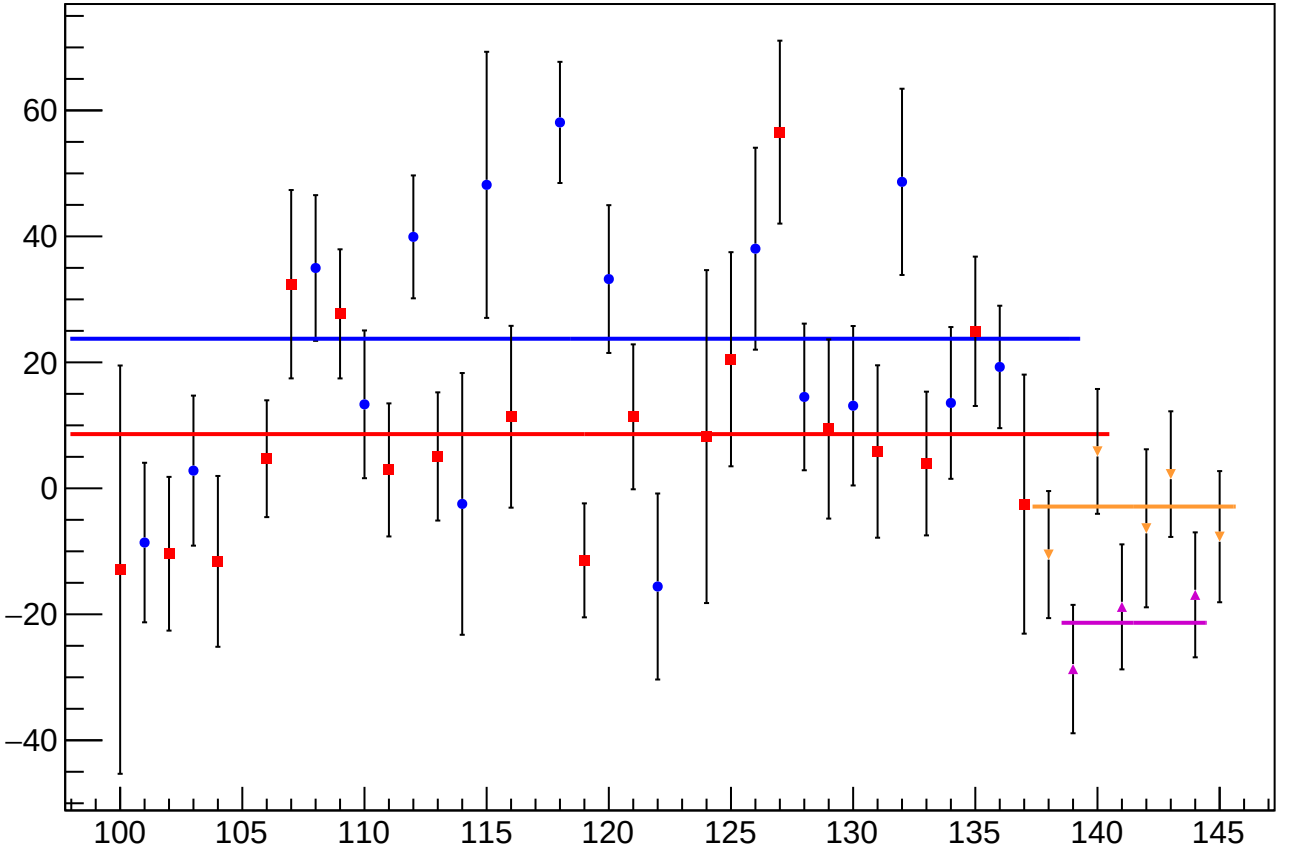
Right: 1234.245+/-0.228 $\chi^2$/NDF: 163824.2/34

In: 1171.456+/-0.265 $\chi^2$/NDF:213851.7/18

Out: 1142.867+/-0.243 $\chi^2$/NDF:256661.7/23

All: 1155.912+/-0.179 $\chi^2$/NDF: 476838.3/42

# diff_bpm0l09X_mean vs Slug, Sign Corrected




Right In: 23.750+/-3.081 $\chi^2$/NDF: 43.4/15

Left Out: -2.893+/-4.681 $\chi^2$/NDF:1.9/4

Right Out: 8.609+/-2.899 $\chi^2$/NDF: 30.5/18

Left In: -21.346+/-5.779 $\chi^2$/NDF:0.8/2

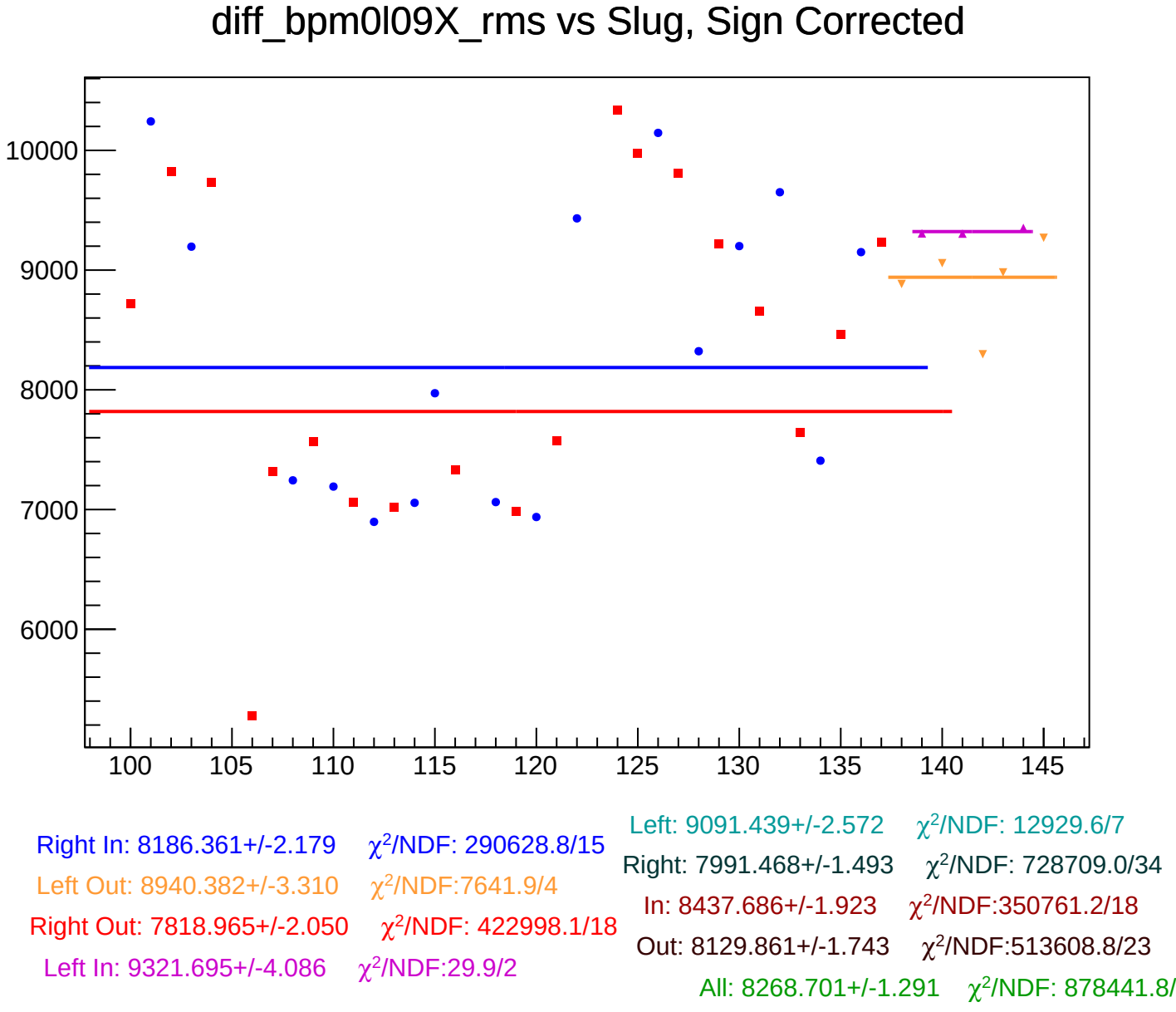
Left: -10.203+/-3.637 $\chi^2$/NDF: 8.8/7

Right: 15.718+/-2.111 $\chi^2$/NDF: 86.7/34

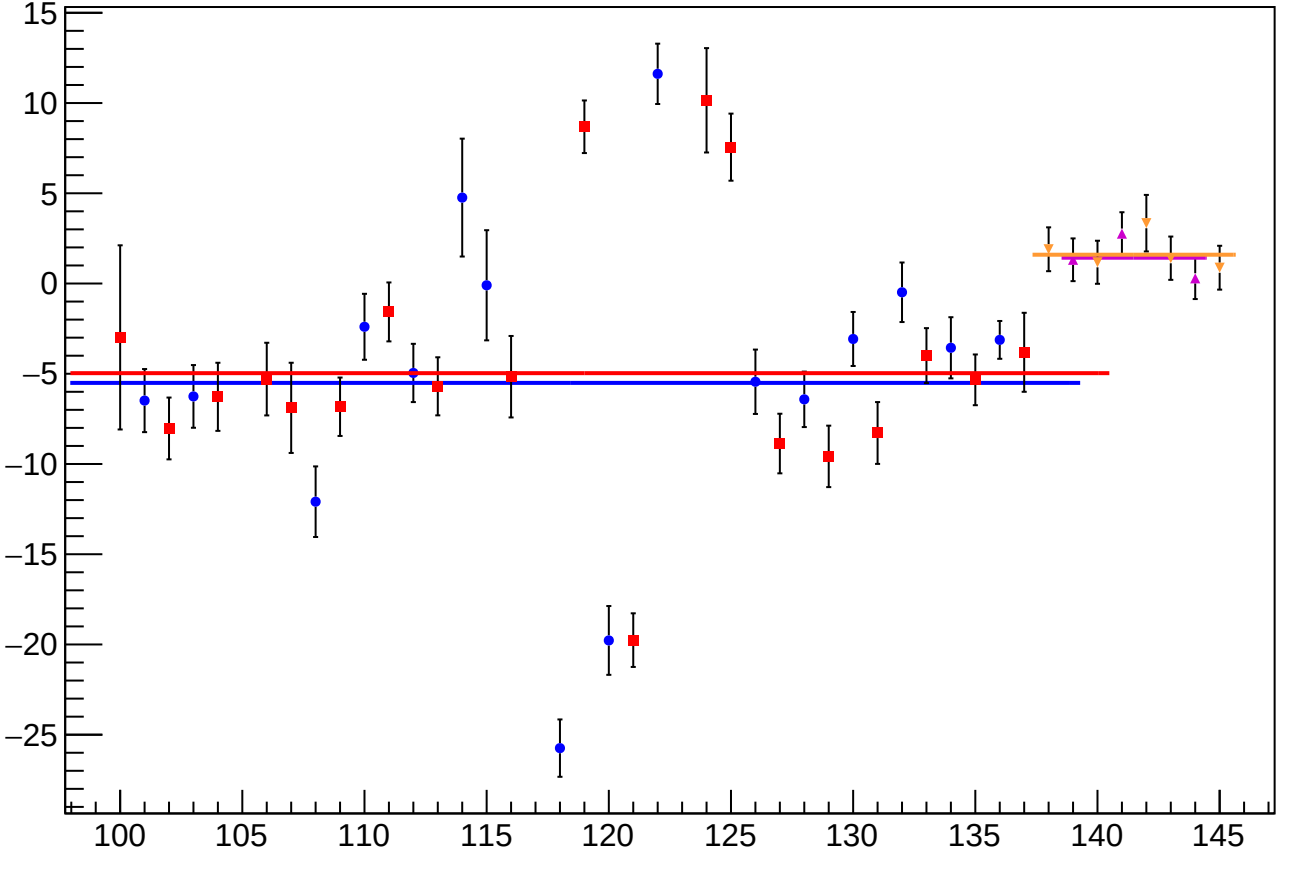
In: 13.767+/-2.719 $\chi^2$/NDF:91.6/18

Out: 5.420+/-2.465 $\chi^2$/NDF:36.7/23

All: 9.185+/-1.826 $\chi^2$/NDF: 133.5/42


diff_bpm0l09X_rms vs Slug, Sign Corrected
10000
9000
8000
7000
6000
100
105
110
115
120
125
130
135
140
145
Right In: 8186.361+/-2.179 χ²/NDF: 290628.8/15
Left Out: 8940.382+/-3.310 χ²/NDF:7641.9/4
Right Out: 7818.965+/-2.050 χ²/NDF: 422998.1/18
Left In: 9321.695+/-4.086 χ²/NDF:29.9/2
Left: 9091.439+/-2.572 χ²/NDF: 12929.6/7
Right: 7991.468+/-1.493 χ²/NDF: 728709.0/34
In: 8437.686+/-1.923 χ²/NDF:350761.2/18
Out: 8129.861+/-1.743 χ²/NDF:513608.8/23
All: 8268.701+/-1.291 χ²/NDF: 878441.8/42

# diff_bpm0l09Y_mean vs Slug, Sign Corrected




Right In: -5.506+/-0.421 $\chi^2$/NDF: 369.8/15

Left Out: 1.596+/-0.563 $\chi^2$/NDF:1.8/4

Right Out: -4.967+/-0.410 $\chi^2$/NDF: 287.3/18

Left In: 1.430+/-0.677 $\chi^2$/NDF:2.3/2

Left: 1.528+/-0.433 $\chi^2$/NDF: 4.1/7

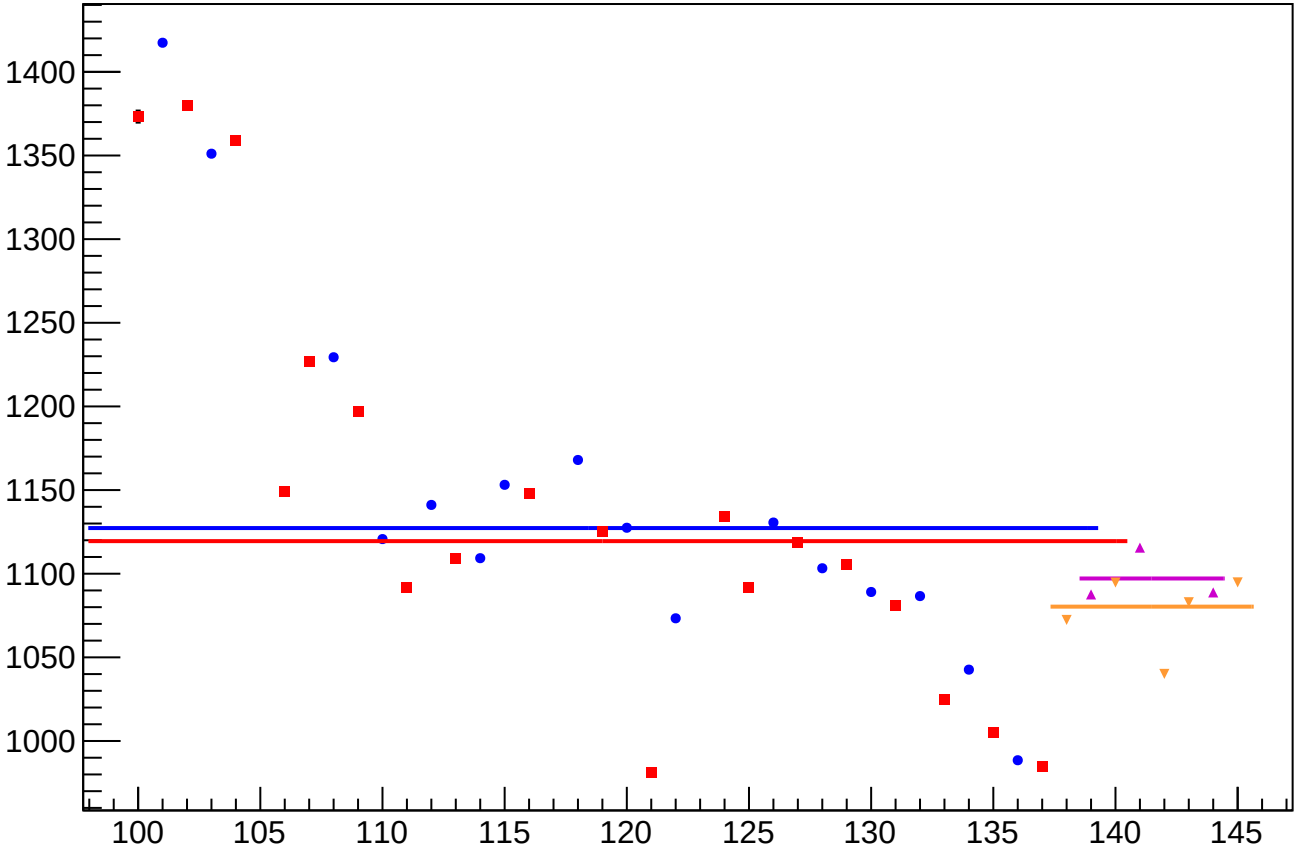
Right: -5.230+/-0.294 $\chi^2$/NDF: 657.9/34

In: -3.573+/-0.357 $\chi^2$/NDF:447.8/18

Out: -2.688+/-0.332 $\chi^2$/NDF:378.0/23

All: -3.097+/-0.243 $\chi^2$/NDF: 829.0/42

# diff_bpm0l09Y_rms vs Slug, Sign Corrected




Right In: 1127.290+/-0.298 $\chi^2$/NDF: 140615.8/15

Left Out: 1080.315+/-0.398 $\chi^2$/NDF:1989.1/4

Right Out: 1119.473+/-0.290 $\chi^2$/NDF: 140736.0/18

Left In: 1097.143+/-0.479 $\chi^2$/NDF:718.5/2

Left: 1087.189+/-0.306 $\chi^2$/NDF: 3438.7/7

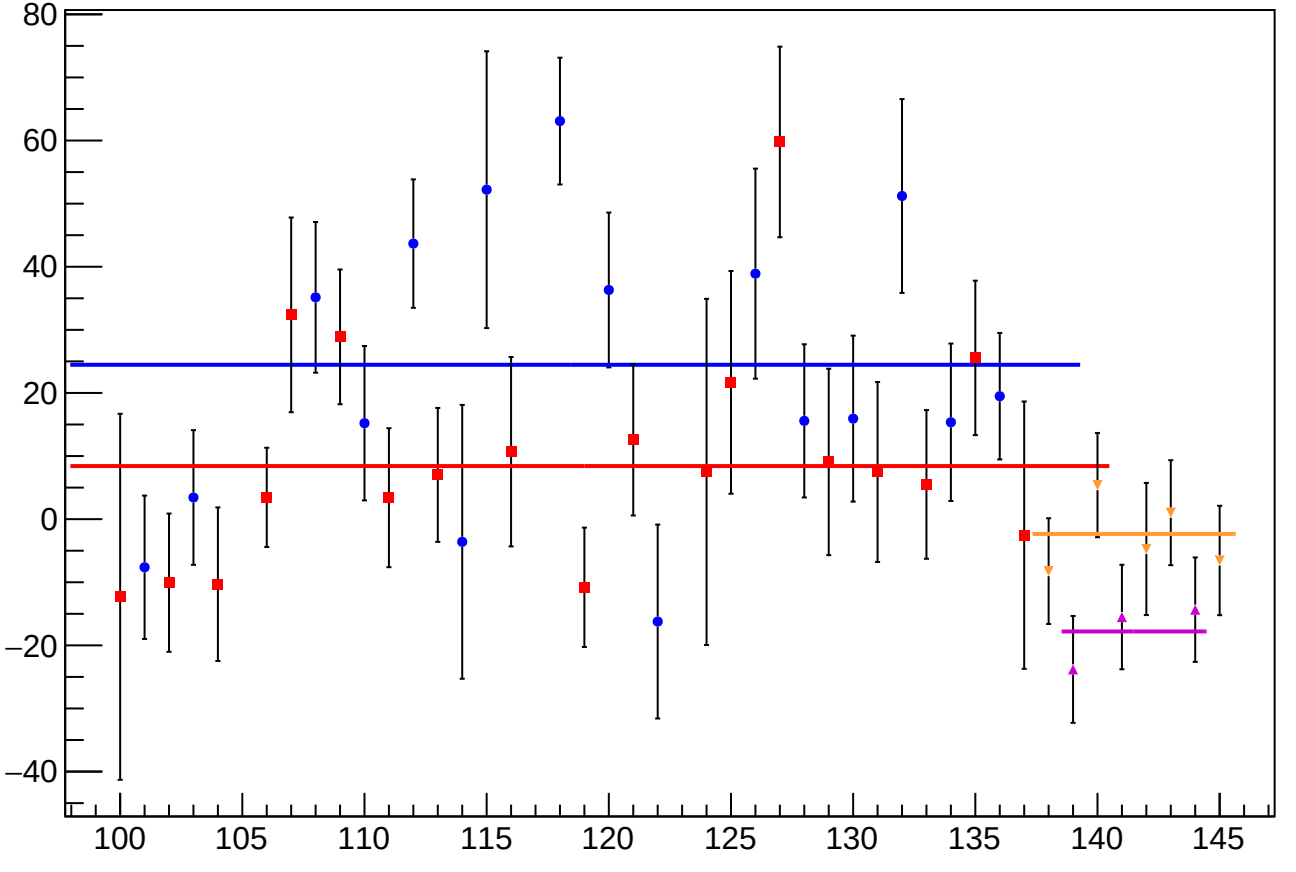
Right: 1123.282+/-0.208 $\chi^2$/NDF: 281705.5/34

In: 1118.885+/-0.253 $\chi^2$/NDF:144195.2/18

Out: 1105.873+/-0.234 $\chi^2$/NDF:149050.7/23

All: 1111.890+/-0.172 $\chi^2$/NDF: 294670.6/42

# diff_bpm0l10X_mean vs Slug, Sign Corrected




Right In: 24.463+/-3.136 $\chi^2$/NDF: 48.3/15

Left Out: -2.336+/-3.899 $\chi^2$/NDF:1.8/4

Right Out: 8.413+/-2.891 $\chi^2$/NDF: 31.1/18

Left In: -17.798+/-4.815 $\chi^2$/NDF:0.8/2

Left: -8.460+/-3.030 $\chi^2$/NDF: 8.8/7

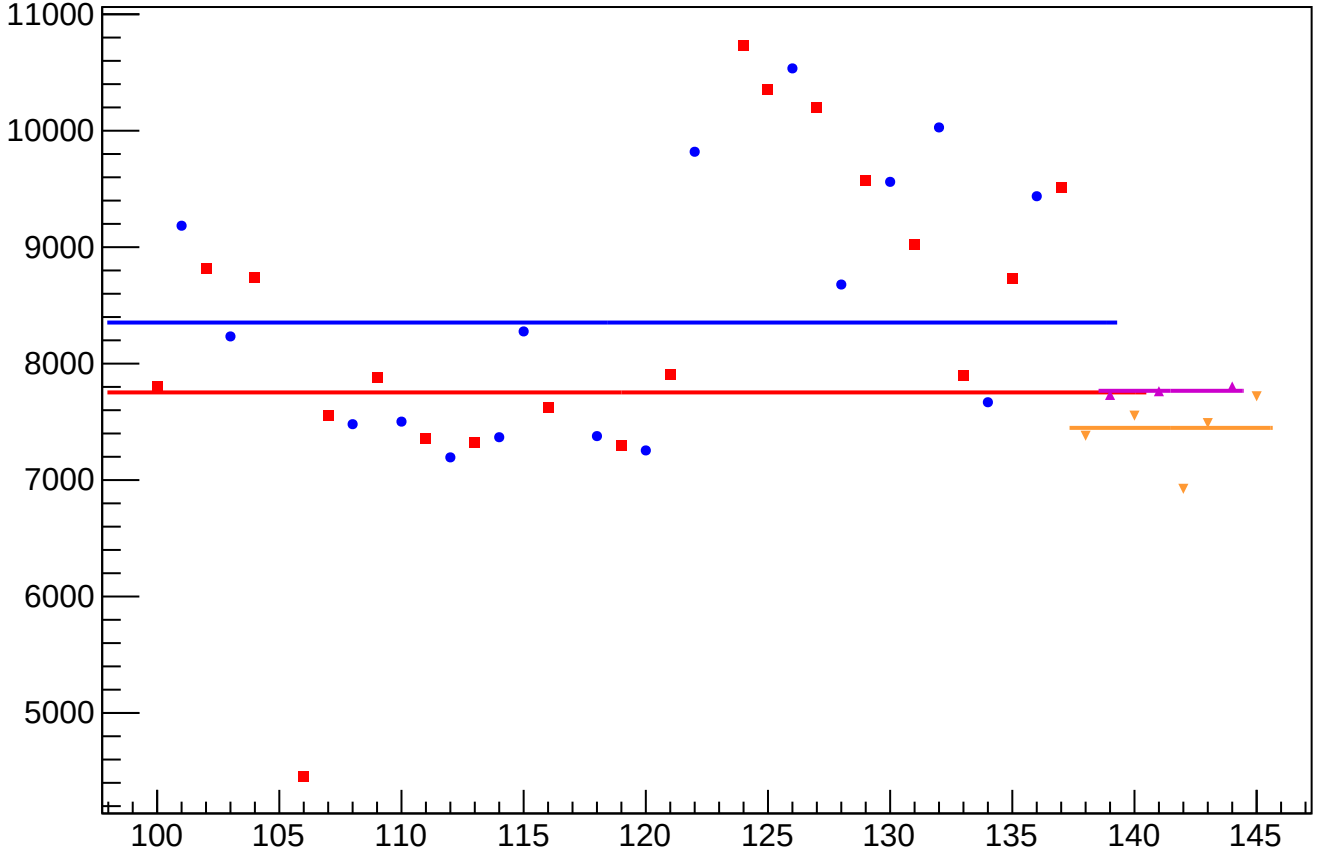
Right: 15.786+/-2.126 $\chi^2$/NDF: 93.6/34

In: 11.874+/-2.628 $\chi^2$/NDF:103.2/18

Out: 4.600+/-2.322 $\chi^2$/NDF:37.9/23

All: 7.790+/-1.740 $\chi^2$/NDF: 145.3/42

# diff_bpm0l10X_rms vs Slug, Sign Corrected




Right In: 8352.758+/-2.218 $\chi^2$/NDF: 220412.5/15

Left Out: 7448.216+/-2.757 $\chi^2$/NDF:7456.0/4

Right Out: 7752.674+/-2.044 $\chi^2$/NDF: 588072.1/18

Left In: 7766.566+/-3.405 $\chi^2$/NDF:75.2/2

Left: 7574.306+/-2.143 $\chi^2$/NDF: 12811.7/7

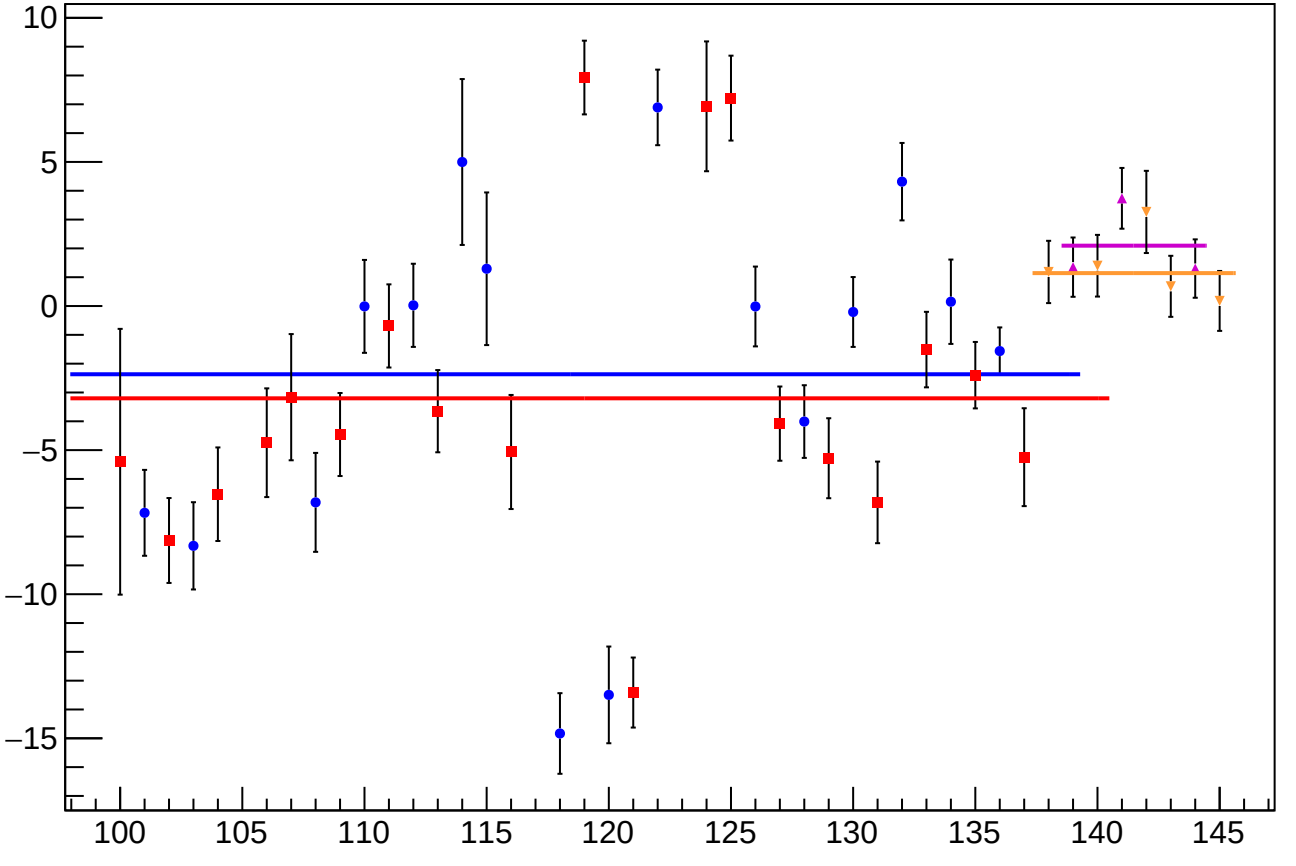
Right: 8028.343+/-1.503 $\chi^2$/NDF: 848071.5/34

In: 8178.138+/-1.858 $\chi^2$/NDF:241302.5/18

Out: 7644.676+/-1.642 $\chi^2$/NDF:603396.6/23

All: 7878.601+/-1.230 $\chi^2$/NDF: 890978.3/42

# diff_bpm0l10Y_mean vs Slug, Sign Corrected




Right In: -2.368+/-0.350 $\chi^2$/NDF: 255.6/15

Left Out: 1.142+/-0.498 $\chi^2$/NDF:3.3/4

Right Out: -3.203+/-0.346 $\chi^2$/NDF: 250.5/18

Left In: 2.094+/-0.596 $\chi^2$/NDF:3.6/2

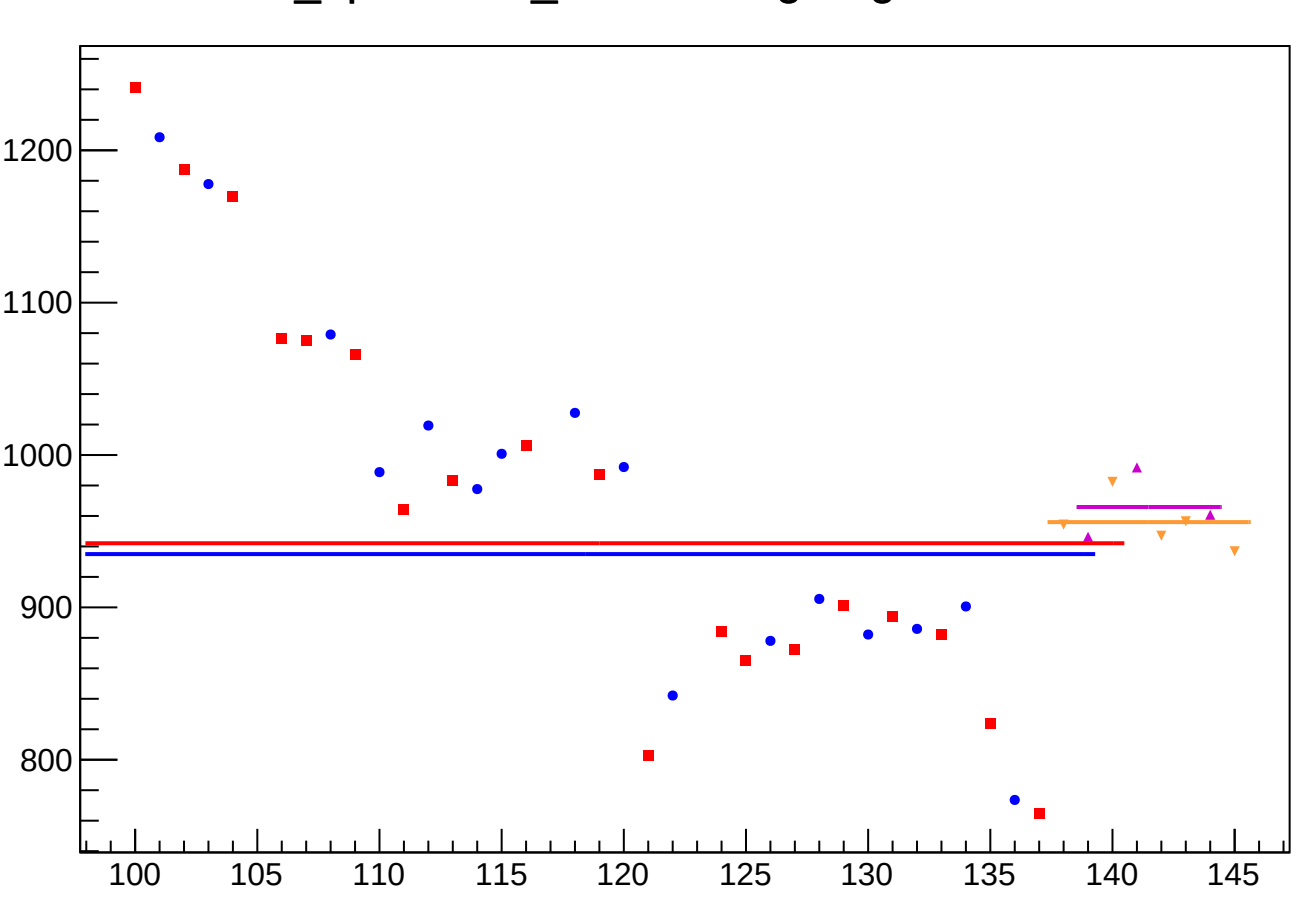
Left: 1.534+/-0.382 $\chi^2$/NDF: 8.4/7

Right: -2.790+/-0.246 $\chi^2$/NDF: 509.0/34

In: -1.220+/-0.302 $\chi^2$/NDF:300.8/18

Out: -1.785+/-0.284 $\chi^2$/NDF:305.2/23

All: -1.519+/-0.207 $\chi^2$/NDF: 607.9/42




Right In: 934.975+/-0.248 $\chi^2$/NDF: 254363.7/15

Left Out: 955.969+/-0.352 $\chi^2$/NDF:1982.2/4

Right Out: 942.096+/-0.245 $\chi^2$/NDF: 232453.5/18

Left In: 965.877+/-0.421 $\chi^2$/NDF:1984.4/2

Left: 960.042+/-0.270 $\chi^2$/NDF: 4292.5/7

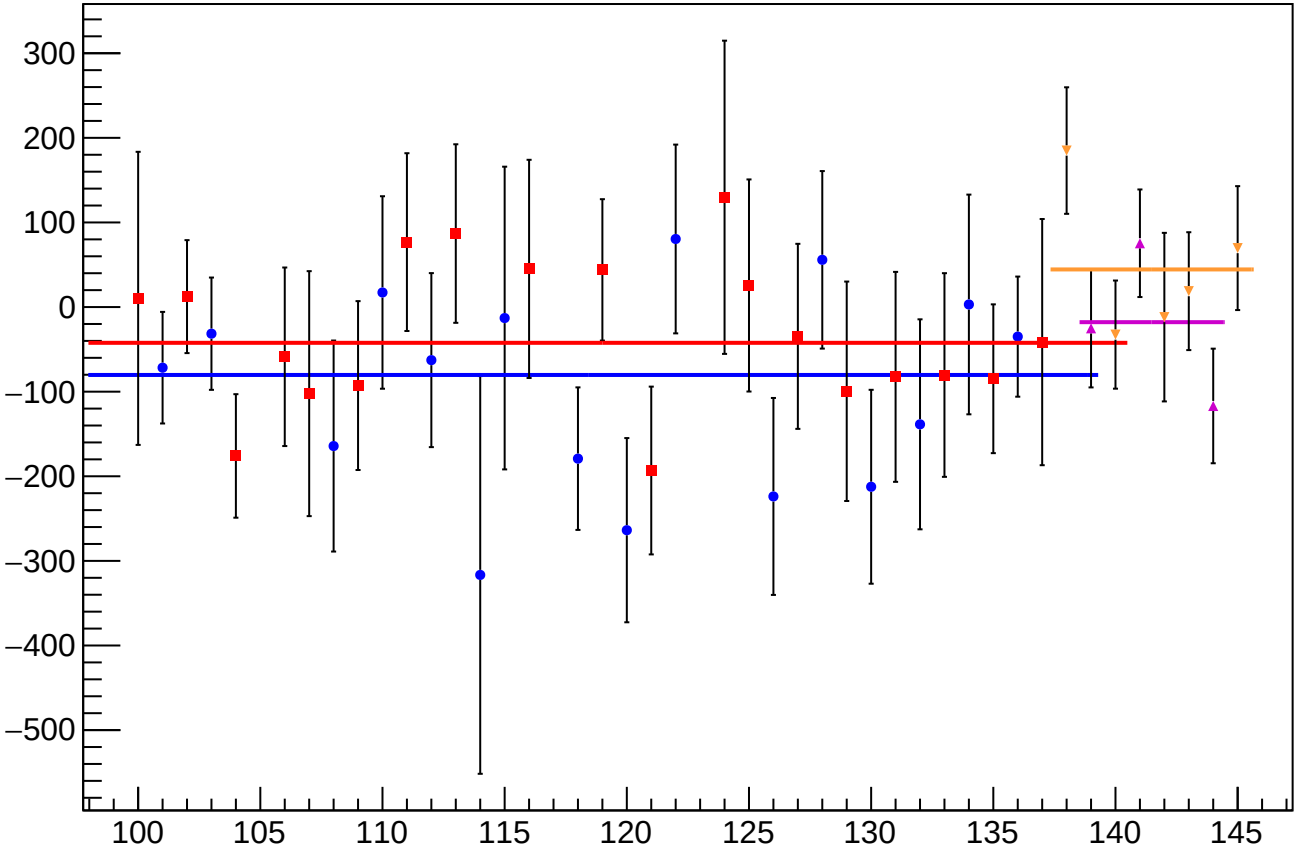
Right: 938.577+/-0.174 $\chi^2$/NDF: 487235.0/34

In: 942.921+/-0.214 $\chi^2$/NDF:260347.0/18

Out: 946.623+/-0.201 $\chi^2$/NDF:235482.8/23

All: 944.884+/-0.146 $\chi^2$/NDF: 495989.1/42

# diff_bpm0r03X_mean vs Slug, Sign Corrected




Right In: -80.250+/-24.909 $\chi^2$/NDF: 14.8/15

Left Out: 44.460+/-33.022 $\chi^2$/NDF:5.6/4

Right Out: -42.263+/-24.144 $\chi^2$/NDF: 13.0/18

Left In: -17.853+/-38.624 $\chi^2$/NDF:4.3/2

Left: 18.146+/-25.099 $\chi^2$/NDF: 11.4/7

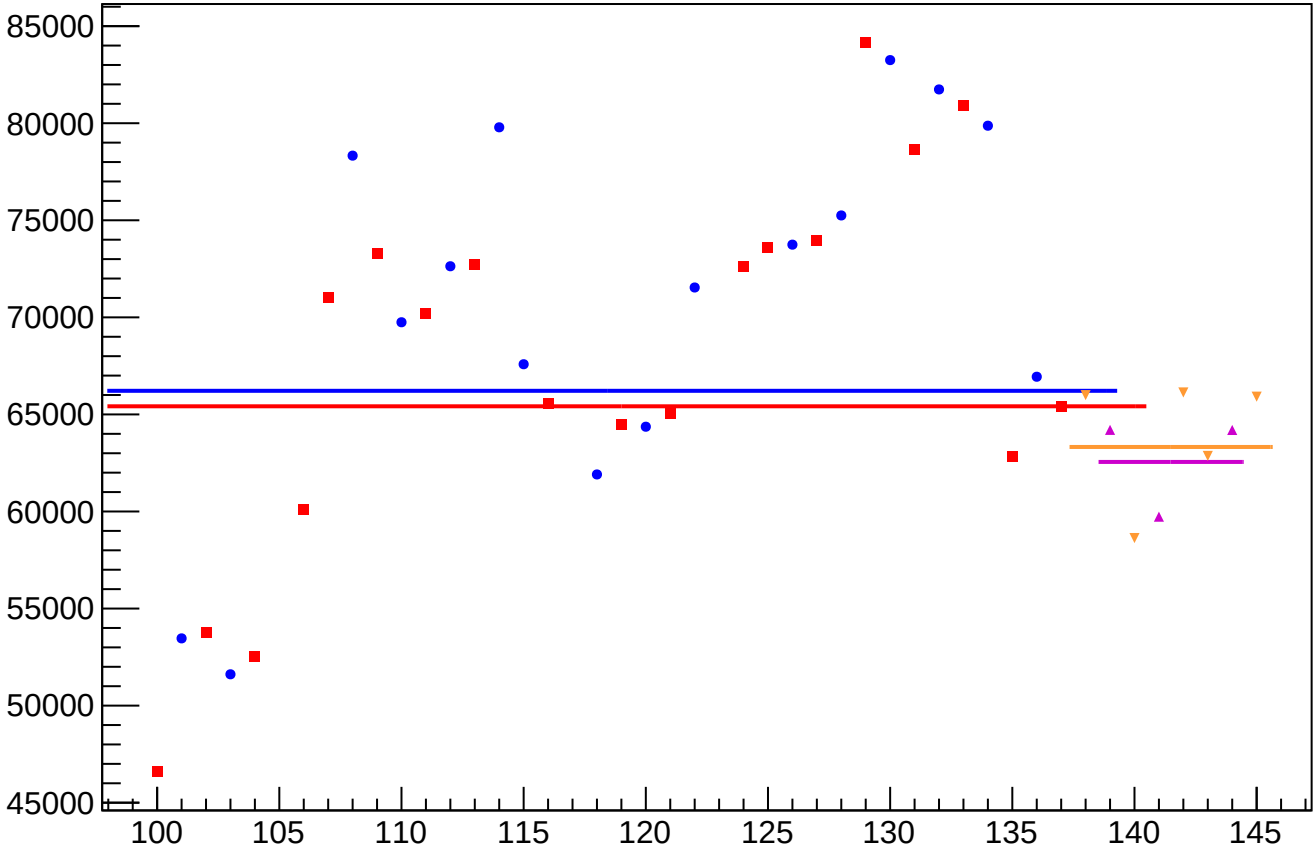
Right: -60.665+/-17.337 $\chi^2$/NDF: 29.0/34

In: -61.922+/-20.933 $\chi^2$/NDF:20.9/18

Out: -12.052+/-19.490 $\chi^2$/NDF:23.0/23

All: -35.209+/-14.265 $\chi^2$/NDF: 47.0/42

# diff_bpm0r03X_rms vs Slug, Sign Corrected




Right In: 66216.115+/-17.613 $\chi^2$/NDF: 338377.6/15

Left Out: 63323.595+/-23.350 $\chi^2$/NDF:17511.5/4

Right Out: 65418.529+/-17.073 $\chi^2$/NDF: 304555.9/18

Left In: 62552.561+/-27.311 $\chi^2$/NDF:6236.0/2

Left: 62997.997+/-17.748 $\chi^2$/NDF: 24207.9/7

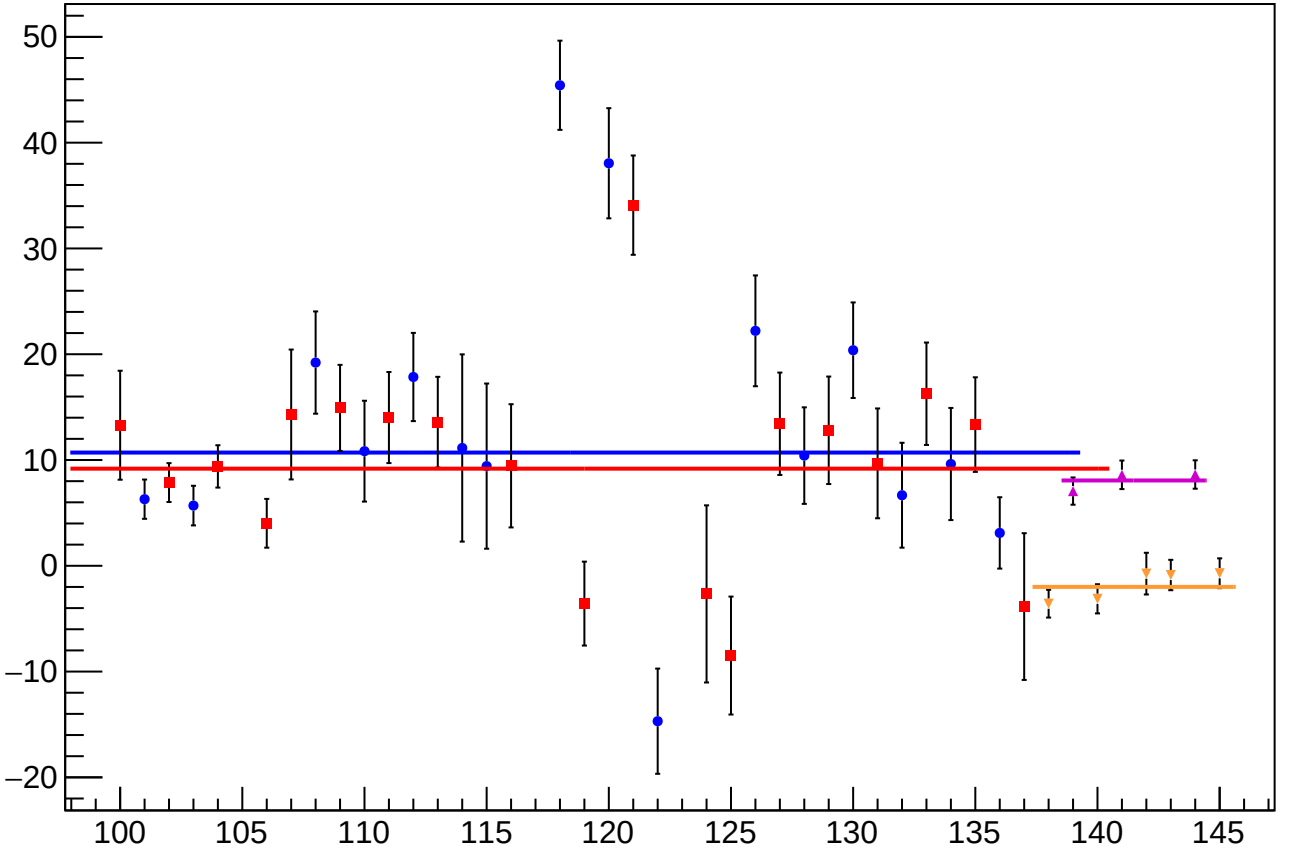
Right: 65804.895+/-12.259 $\chi^2$/NDF: 643990.8/34

In: 65139.974+/-14.802 $\chi^2$/NDF:357322.0/18

Out: 64688.724+/-13.782 $\chi^2$/NDF:327312.7/23

All: 64898.262+/-10.087 $\chi^2$/NDF: 685132.5/4

# diff_bpm0r03Y_mean vs Slug, Sign Corrected




Right In: 10.705+/-0.921 $\chi^2$/NDF: 155.6/15

Left Out: -1.995+/-0.652 $\chi^2$/NDF:4.0/4

Right Out: 9.182+/-0.850 $\chi^2$/NDF: 69.6/18

Left In: 8.066+/-0.765 $\chi^2$/NDF:0.9/2

Left: 2.237+/-0.496 $\chi^2$/NDF: 105.1/7

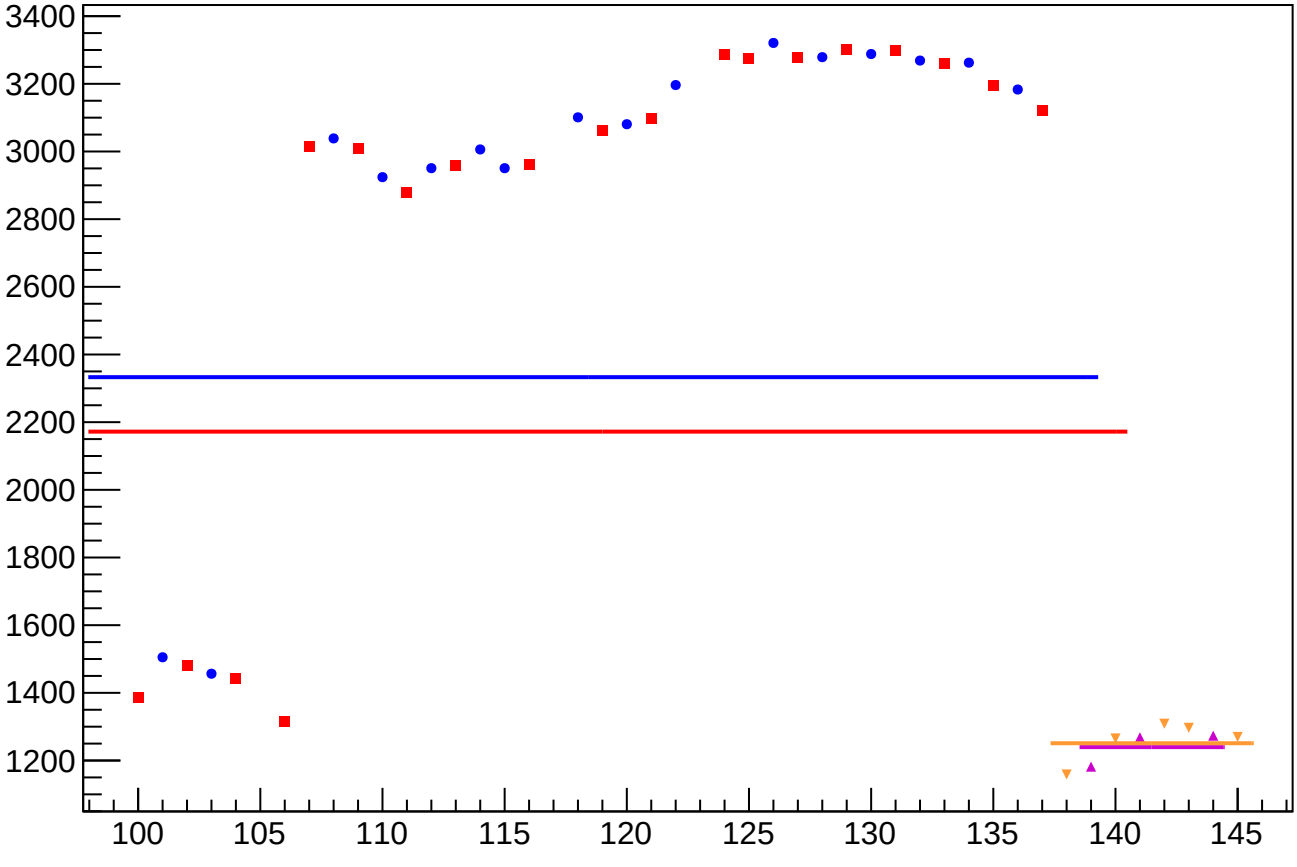
Right: 9.883+/-0.625 $\chi^2$/NDF: 226.6/34

In: 9.144+/-0.588 $\chi^2$/NDF:161.4/18

Out: 2.145+/-0.517 $\chi^2$/NDF:182.4/23

All: 5.197+/-0.389 $\chi^2$/NDF: 423.5/42

# diff_bpm0r03Y_rms vs Slug, Sign Corrected




Right In: 2333.021+/-0.651 $\chi^2$/NDF: 1651407.8/15

Left Out: 1251.102+/-0.461 $\chi^2$/NDF:14190.5/4

Right Out: 2172.041+/-0.601 $\chi^2$/NDF: 1984197.6/18

Left In: 1239.583+/-0.541 $\chi^2$/NDF:6209.9/2

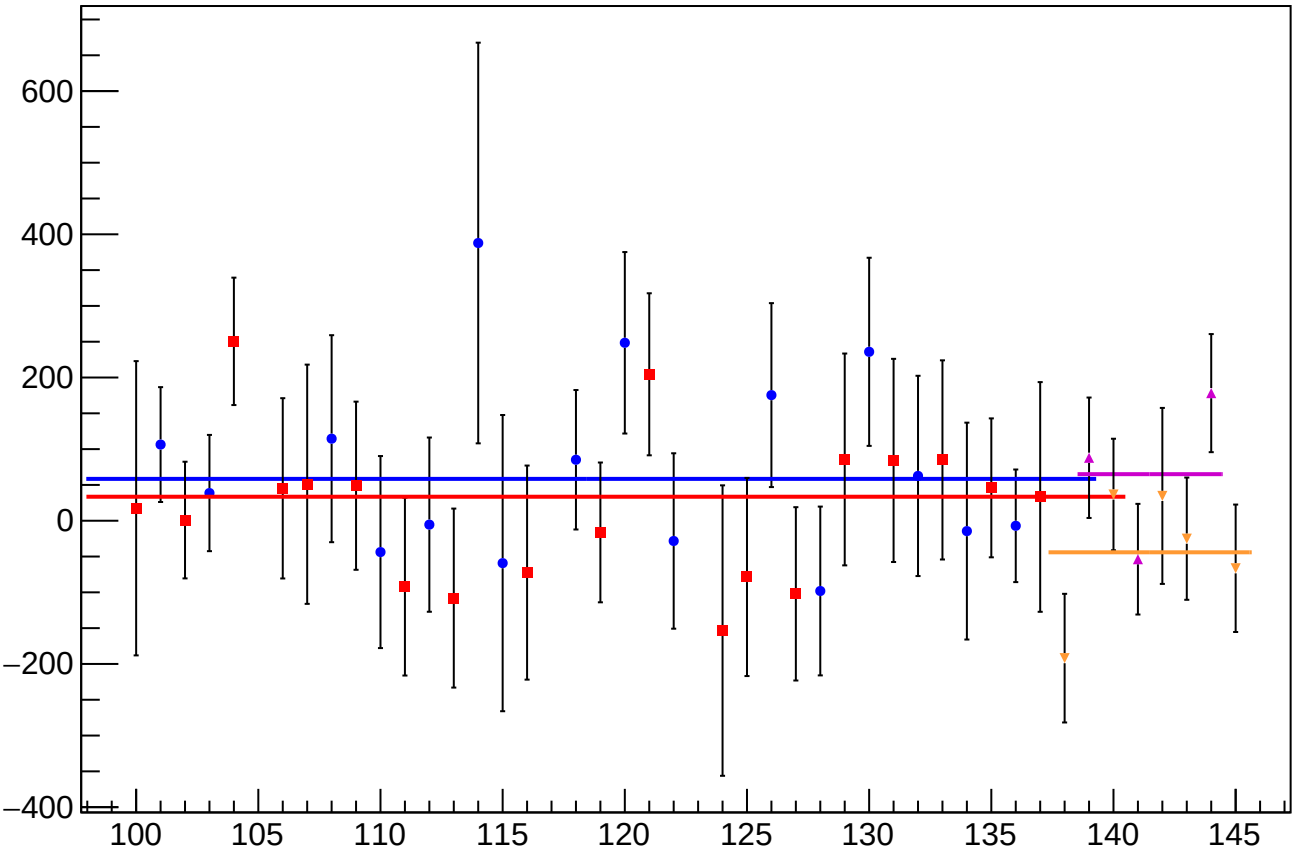
Left: 1246.257+/-0.351 $\chi^2$/NDF: 20663.1/7

Right: 2246.139+/-0.442 $\chi^2$/NDF: 3668614.7/34

In: 1686.394+/-0.416 $\chi^2$/NDF:3326336.5/18

Out: 1592.192+/-0.366 $\chi^2$/NDF:3476138.8/23

All: 1633.263+/-0.275 $\chi^2$/NDF: 6831383.3/42




Right In: 58.446+/-28.918 $\chi^2$/NDF: 11.3/15

Left Out: -44.092+/-40.206 $\chi^2$/NDF:4.3/4

Right Out: 33.520+/-28.106 $\chi^2$/NDF: 14.7/18

Left In: 65.035+/-46.829 $\chi^2$/NDF:4.3/2

Left: 2.215+/-30.505 $\chi^2$/NDF: 11.8/7

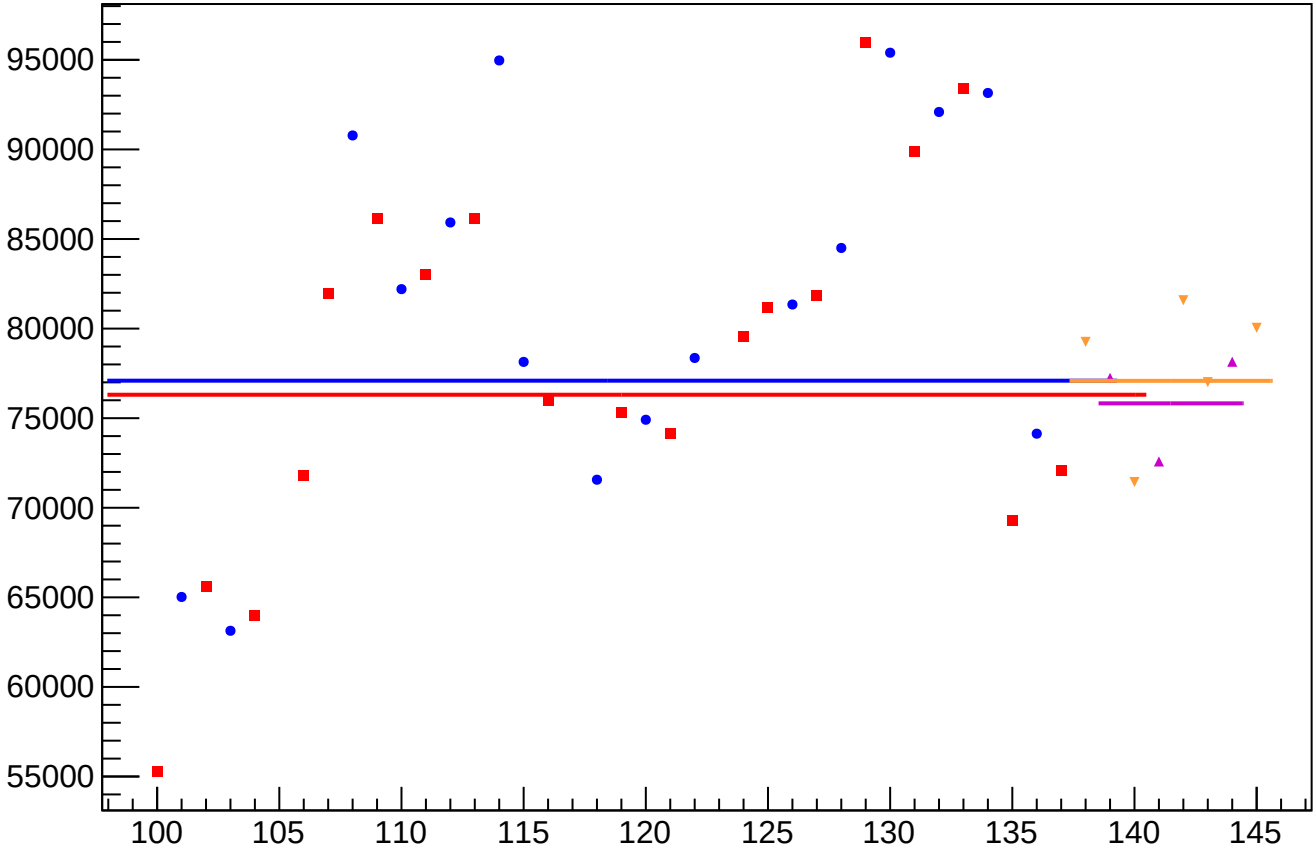
Right: 45.628+/-20.155 $\chi^2$/NDF: 26.4/34

In: 60.265+/-24.605 $\chi^2$/NDF:15.6/18

Out: 8.044+/-23.035 $\chi^2$/NDF:21.5/23

All: 32.436+/-16.816 $\chi^2$/NDF: 39.5/42

# diff_bpm0r05X_rms vs Slug, Sign Corrected




Right In: 77093.125+/-20.448 $\chi^2$/NDF: 248542.7/15

Left Out: 77084.364+/-28.430 $\chi^2$/NDF:16586.2/4

Right Out: 76308.708+/-19.874 $\chi^2$/NDF: 234433.2/18

Left In: 75828.127+/-33.113 $\chi^2$/NDF:5683.7/2

Left: 76551.293+/-21.570 $\chi^2$/NDF: 23098.4/7

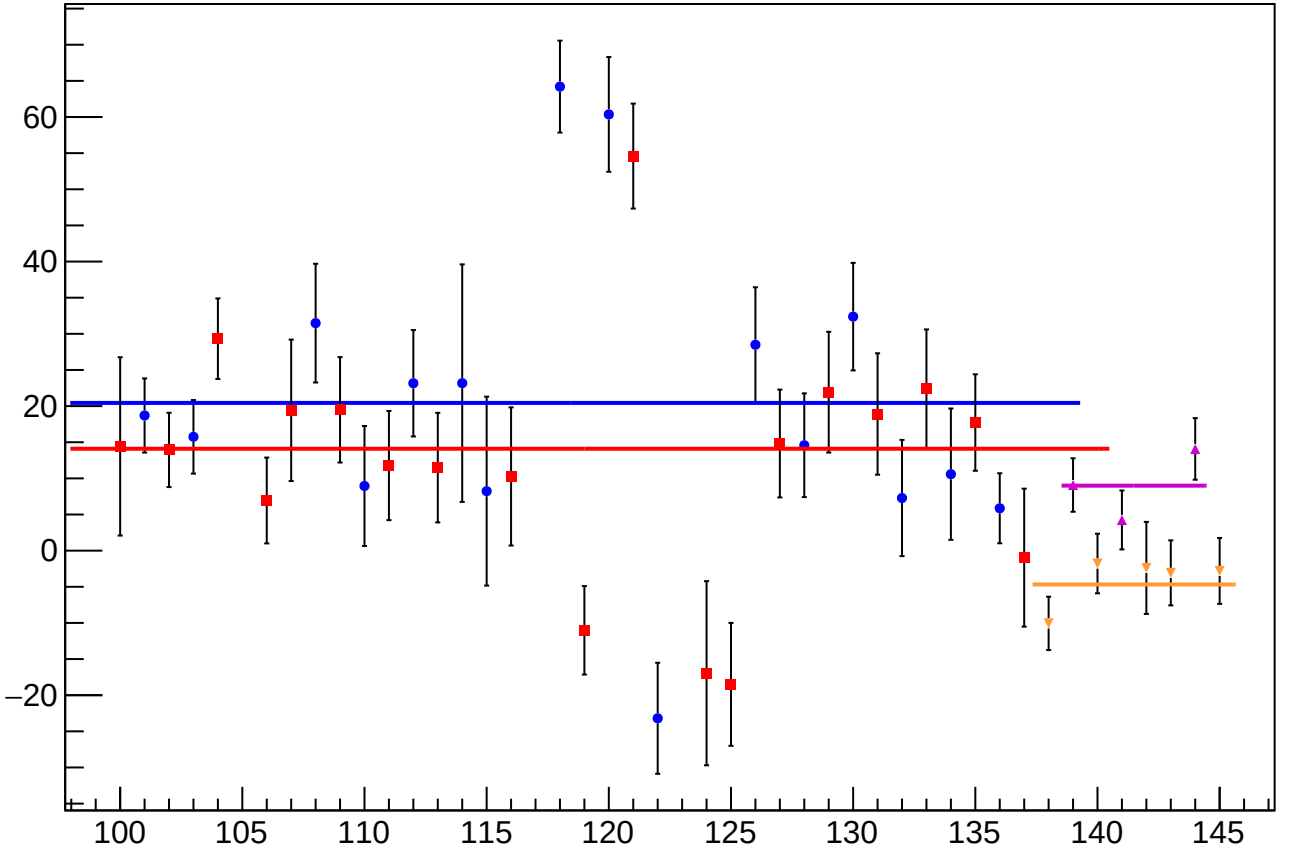
Right: 76689.749+/-14.251 $\chi^2$/NDF: 483732.7/34

In: 76743.915+/-17.398 $\chi^2$/NDF:255283.0/18

Out: 76563.321+/-16.288 $\chi^2$/NDF:251519.4/23

All: 76647.676+/-11.891 $\chi^2$/NDF: 506859.8/4

# diff_bpm0r05Y_mean vs Slug, Sign Corrected




Right In: 20.441+/-1.782 $\chi^2$/NDF: 127.8/15

Left Out: -4.677+/-1.983 $\chi^2$/NDF:3.0/4

Right Out: 14.102+/-1.714 $\chi^2$/NDF: 83.8/18

Left In: 8.995+/-2.304 $\chi^2$/NDF:2.8/2

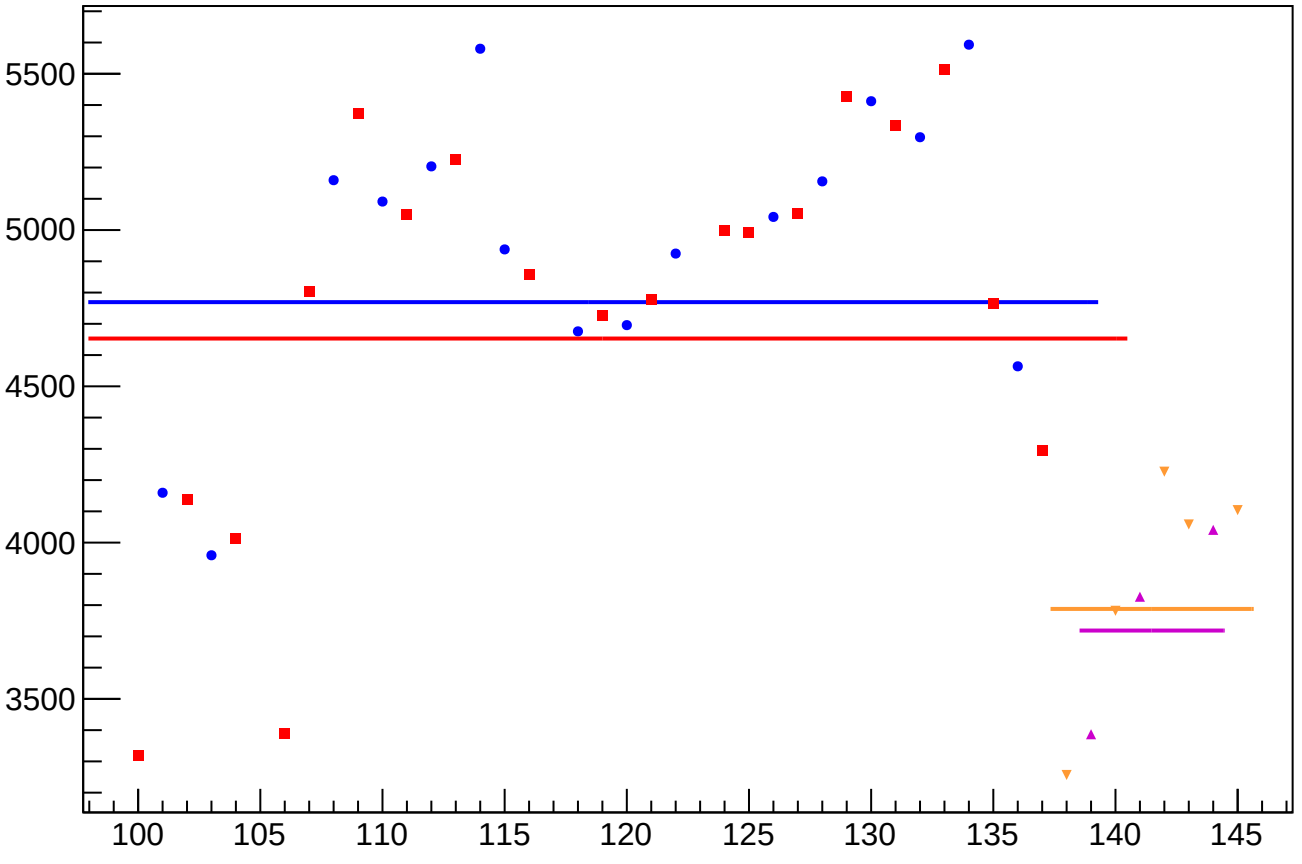
Left: 1.139+/-1.503 $\chi^2$/NDF: 26.1/7

Right: 17.148+/-1.235 $\chi^2$/NDF: 218.2/34

In: 16.157+/-1.410 $\chi^2$/NDF:146.1/18

Out: 6.072+/-1.296 $\chi^2$/NDF:138.2/23

All: 10.694+/-0.954 $\chi^2$/NDF: 312.0/42




Right In: 4769.375+/-1.260 $\chi^2$/NDF: 151678.3/15

Left Out: 3787.832+/-1.402 $\chi^2$/NDF:67804.4/4

Right Out: 4652.924+/-1.212 $\chi^2$/NDF: 265116.1/18

Left In: 3718.660+/-1.629 $\chi^2$/NDF:28926.4/2

Left: 3758.406+/-1.063 $\chi^2$/NDF: 97766.5/7

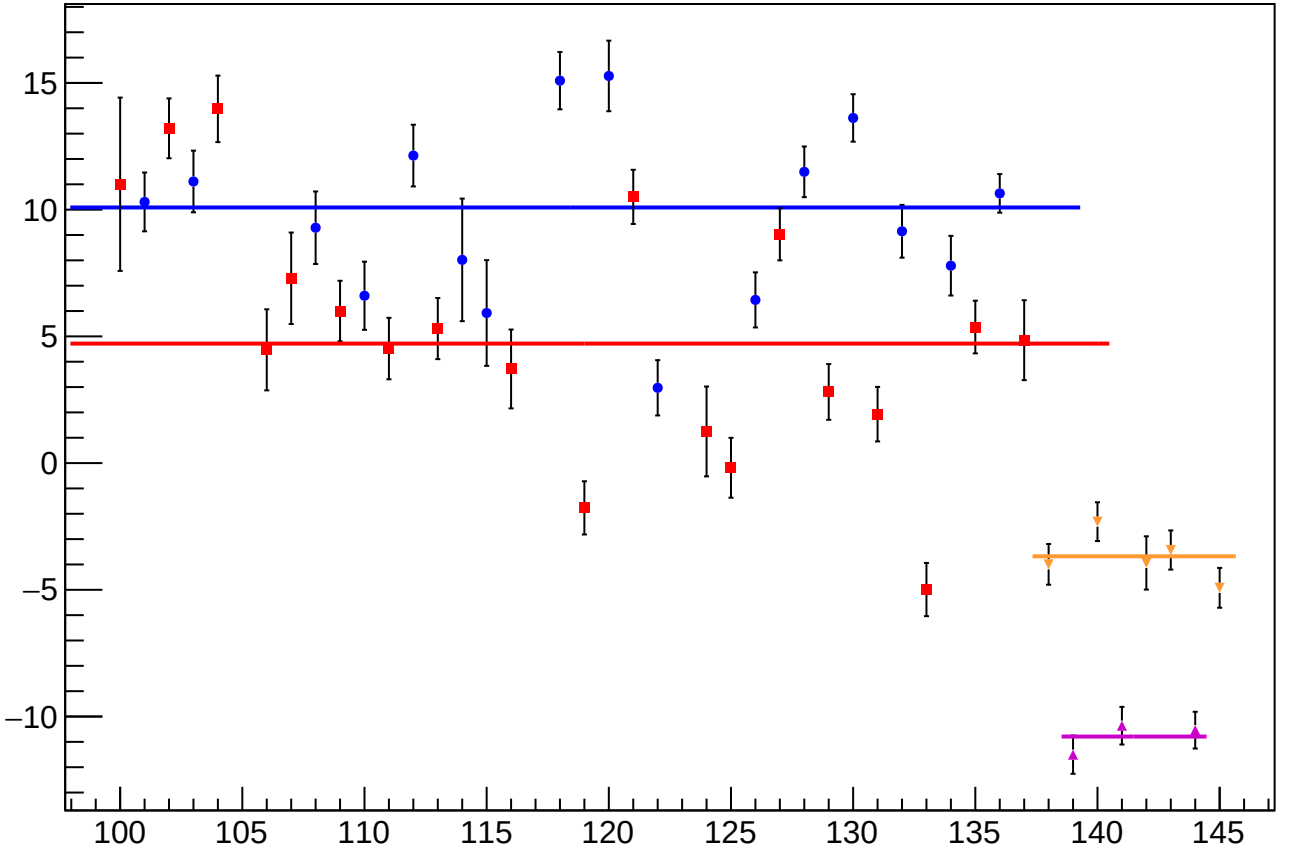
Right: 4708.872+/-0.873 $\chi^2$/NDF: 421232.0/34

In: 4376.135+/-0.997 $\chi^2$/NDF:440845.9/18

Out: 4283.014+/-0.917 $\chi^2$/NDF:550882.6/23

All: 4325.687+/-0.675 $\chi^2$/NDF: 996457.0/42

# diff_bpm2i01X_mean vs Slug, Sign Corrected




Right In: 10.086+/-0.288 $\chi^2$/NDF: 123.9/15

Left Out: -3.678+/-0.366 $\chi^2$/NDF:6.0/4

Right Out: 4.715+/-0.286 $\chi^2$/NDF: 310.2/18

Left In: -10.790+/-0.428 $\chi^2$/NDF:1.4/2

Left: -6.689+/-0.278 $\chi^2$/NDF: 166.9/7

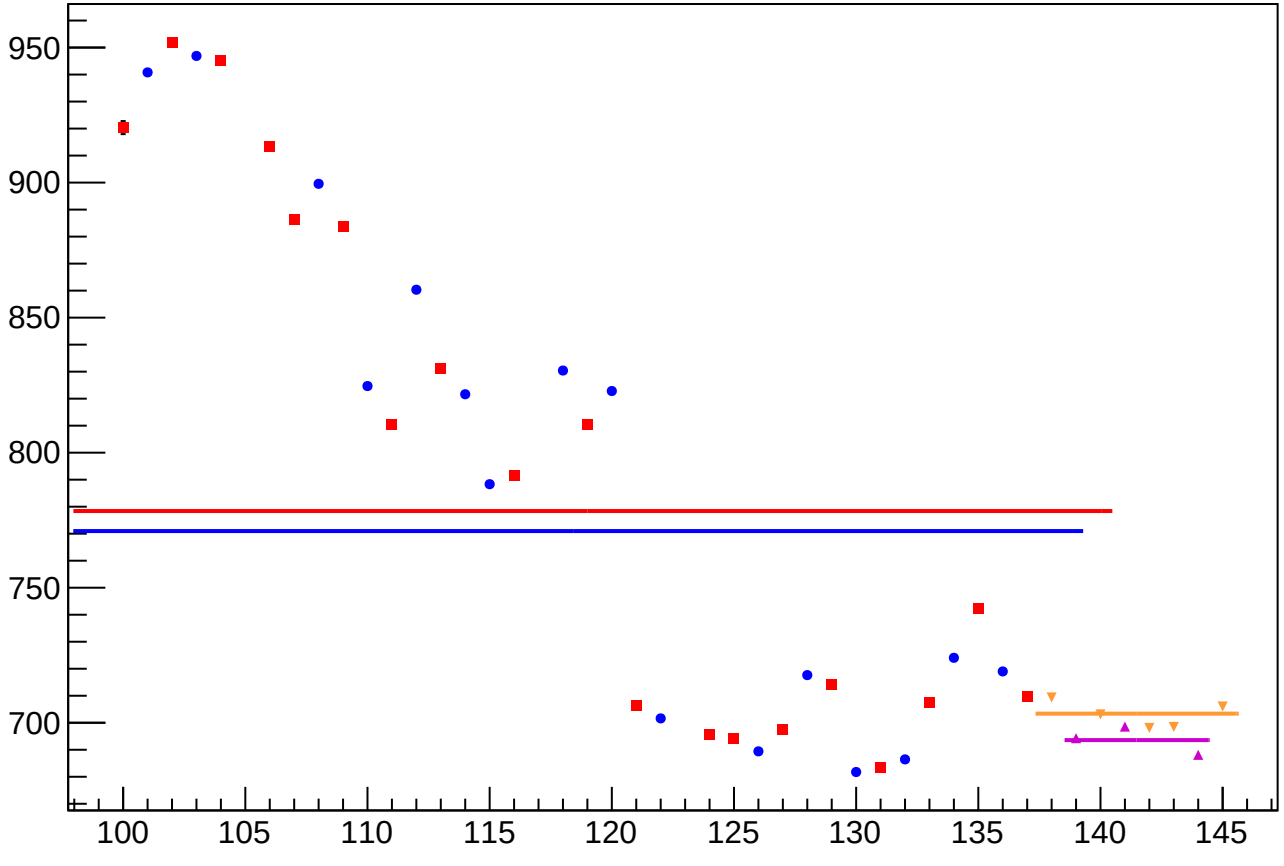
Right: 7.376+/-0.203 $\chi^2$/NDF: 609.2/34

In: 3.558+/-0.239 $\chi^2$/NDF:1764.1/18

Out: 1.541+/-0.225 $\chi^2$/NDF:642.5/23

All: 2.490+/-0.164 $\chi^2$/NDF: 2444.3/42

# diff_bpm2i01X_rms vs Slug, Sign Corrected




Right In: 770.973+/-0.204 $\chi^2$/NDF: 192911.9/15

Left Out: 703.375+/-0.259 $\chi^2$/NDF:265.5/4

Right Out: 778.394+/-0.202 $\chi^2$/NDF: 196544.2/18

Left In: 693.573+/-0.302 $\chi^2$/NDF:205.6/2

Left: 699.224+/-0.197 $\chi^2$/NDF: 1077.3/7

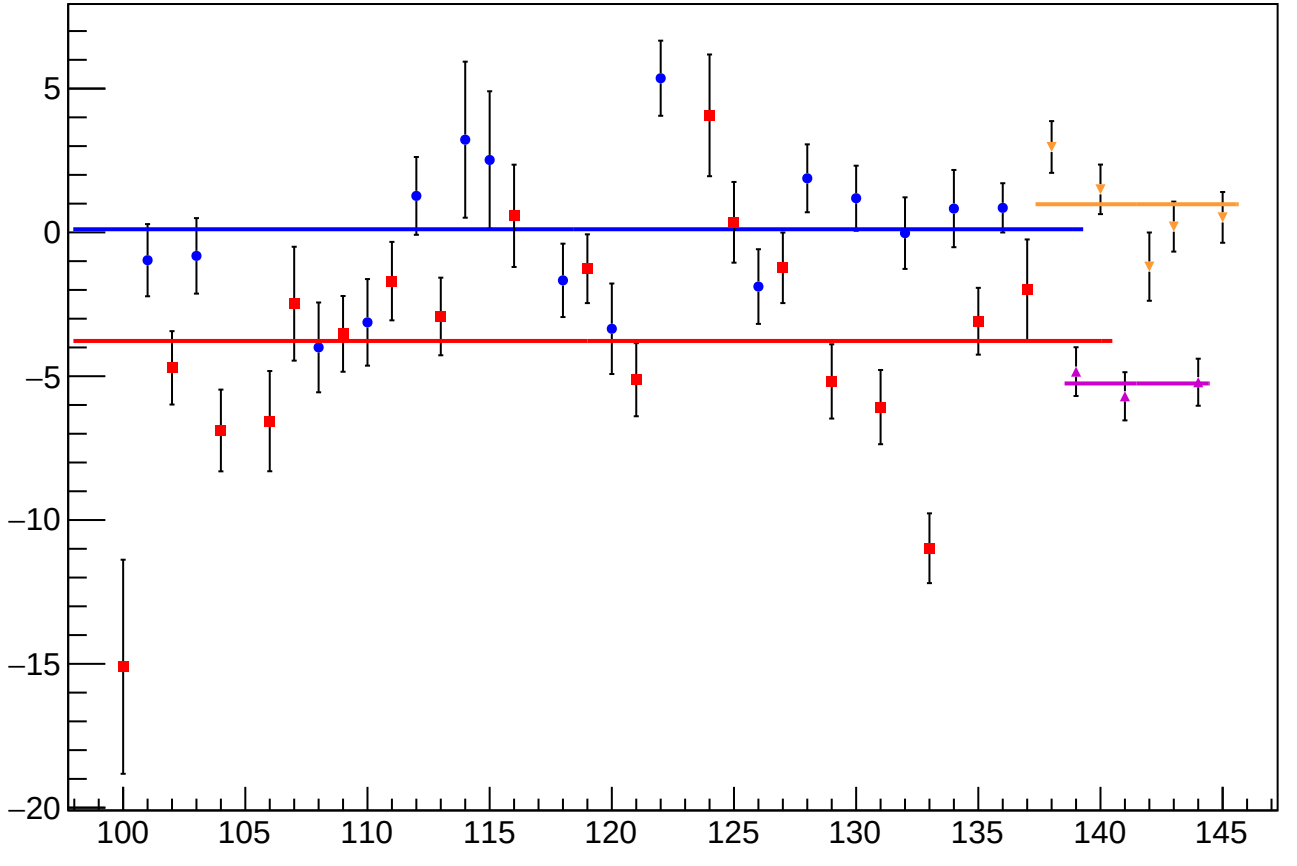
Right: 774.717+/-0.144 $\chi^2$/NDF: 390124.3/34

In: 746.769+/-0.169 $\chi^2$/NDF:238173.4/18

Out: 750.020+/-0.159 $\chi^2$/NDF:248943.1/23

All: 748.491+/-0.116 $\chi^2$/NDF: 487312.4/42

# diff_bpm2i01Y_mean vs Slug, Sign Corrected




Right In: 0.109+/-0.330 $\chi^2$/NDF: 45.4/15

Left Out: 0.979+/-0.412 $\chi^2$/NDF:9.7/4

Right Out: -3.774+/-0.326 $\chi^2$/NDF: 99.6/18

Left In: -5.252+/-0.482 $\chi^2$/NDF:0.5/2

Left: -1.651+/-0.313 $\chi^2$/NDF: 106.9/7

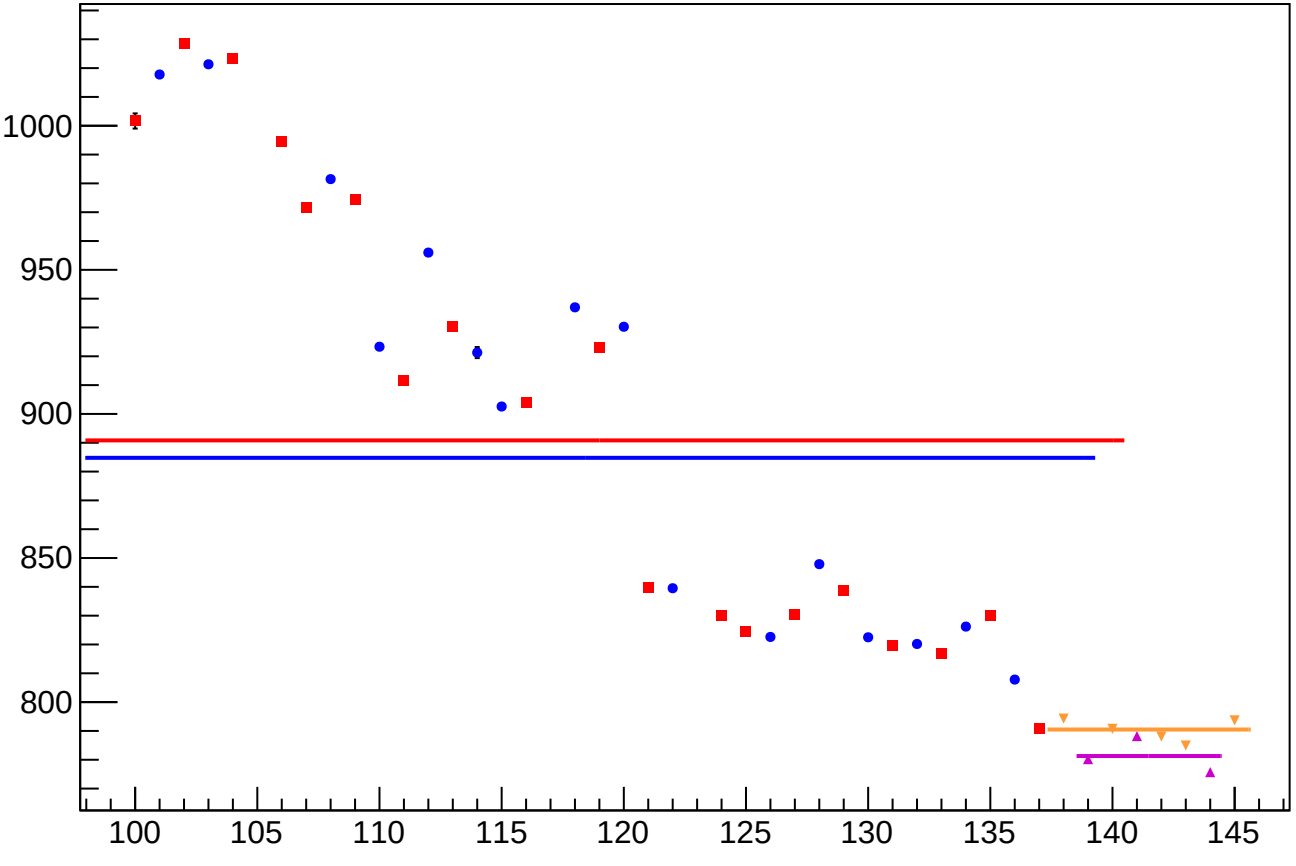
Right: -1.855+/-0.232 $\chi^2$/NDF: 215.0/34

In: -1.603+/-0.272 $\chi^2$/NDF:130.2/18

Out: -1.942+/-0.256 $\chi^2$/NDF:191.1/23

All: -1.783+/-0.186 $\chi^2$/NDF: 322.2/42

# diff_bpm2i01Y_rms vs Slug, Sign Corrected




Right In: 884.773+/-0.233 $\chi^2$/NDF: 104494.1/15

Left Out: 790.495+/-0.291 $\chi^2$/NDF:151.7/4

Right Out: 890.815+/-0.231 $\chi^2$/NDF: 107763.6/18

Left In: 781.297+/-0.341 $\chi^2$/NDF:233.3/2

Left: 786.612+/-0.221 $\chi^2$/NDF: 806.4/7

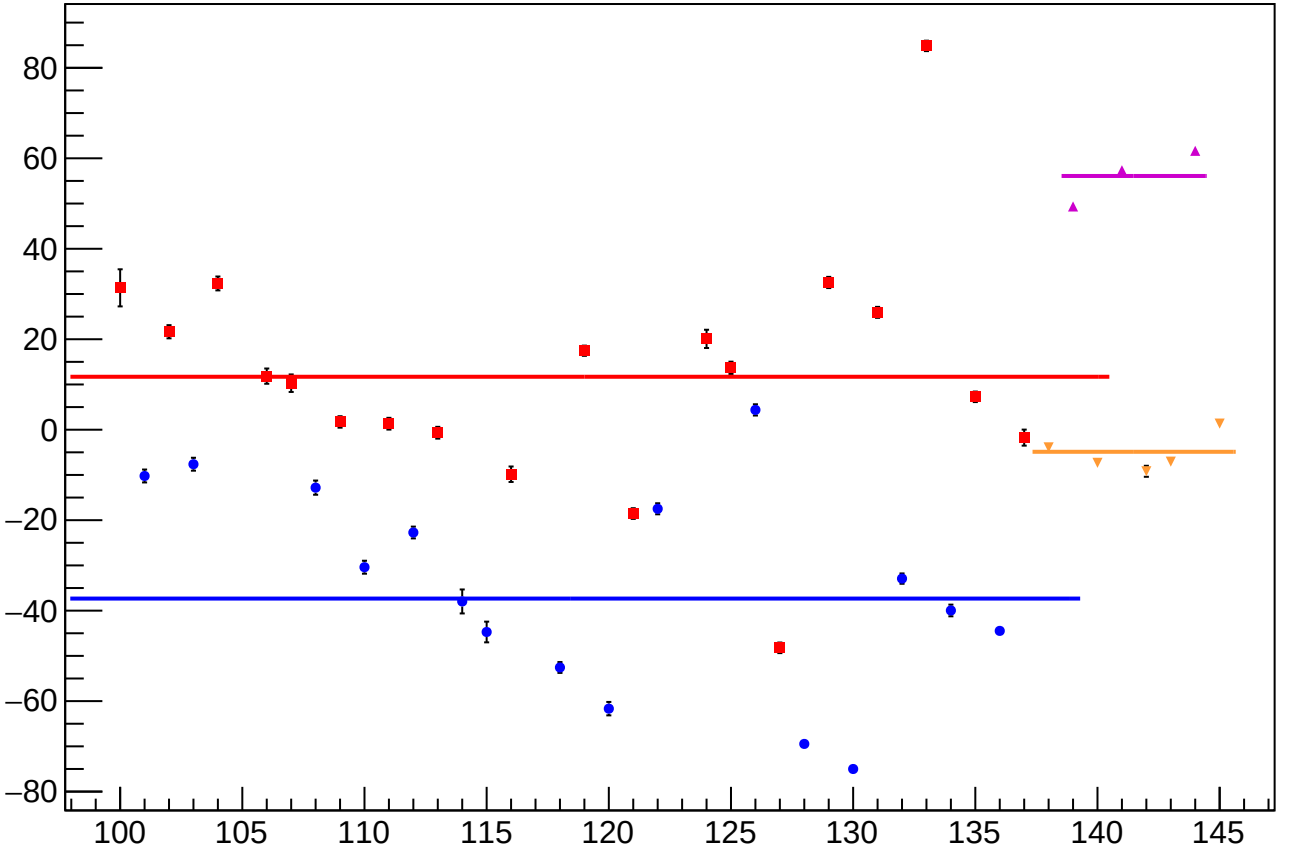
Right: 887.830+/-0.164 $\chi^2$/NDF: 212597.1/34

In: 851.729+/-0.192 $\chi^2$/NDF:167561.2/18

Out: 852.141+/-0.181 $\chi^2$/NDF:180902.3/23

All: 851.948+/-0.132 $\chi^2$/NDF: 348466.0/42

# diff_bpm2i02X_mean vs Slug, Sign Corrected




Right In: -37.330+/-0.322 $\chi^2$/NDF: 5184.7/15

Left Out: -4.882+/-0.420 $\chi^2$/NDF:74.3/4

Right Out: 11.706+/-0.318 $\chi^2$/NDF: 8463.6/18

Left In: 56.093+/-0.493 $\chi^2$/NDF:109.0/2

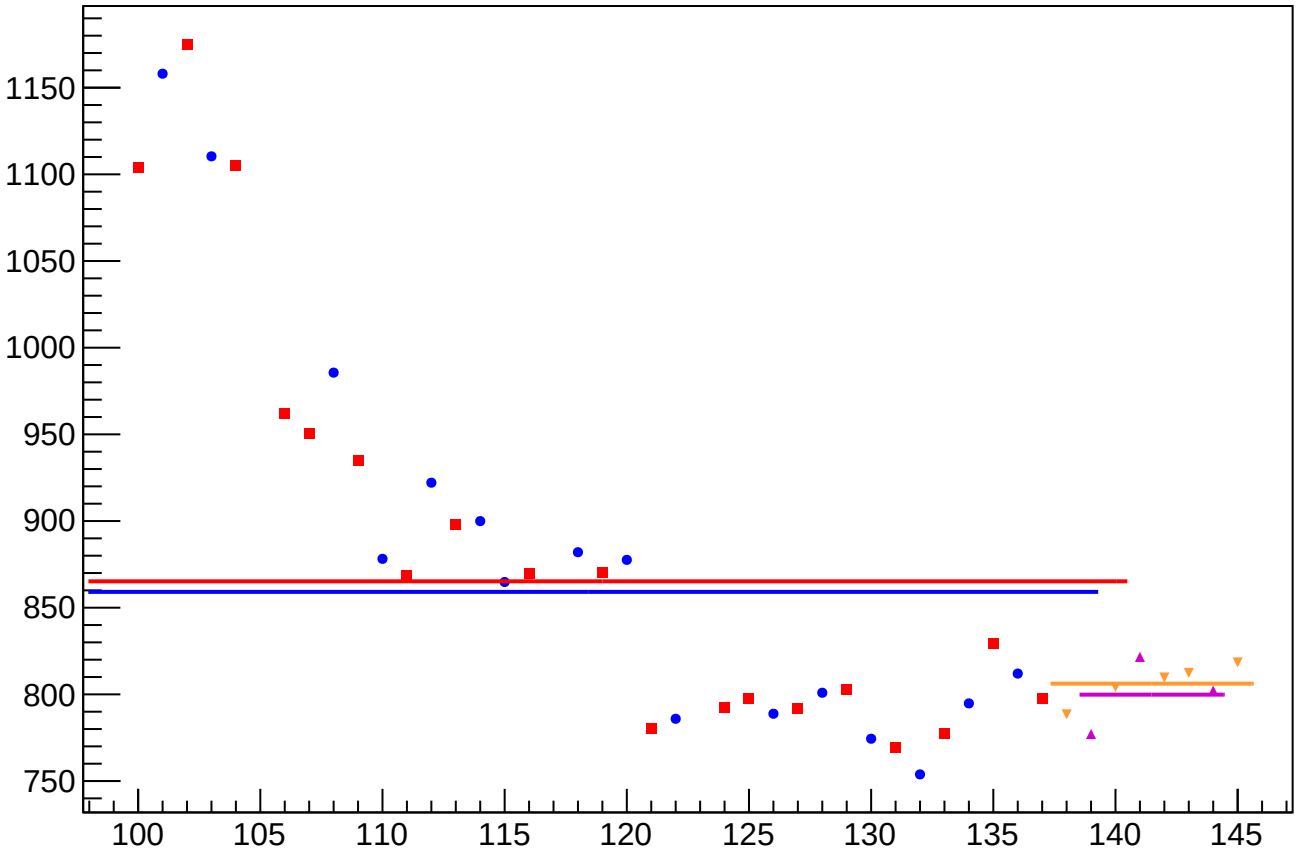
Left: 20.732+/-0.320 $\chi^2$/NDF: 9049.4/7

Right: -12.519+/-0.226 $\chi^2$/NDF: 25401.8/34

In: -9.437+/-0.269 $\chi^2$/NDF:30467.6/18

Out: 5.659+/-0.253 $\chi^2$/NDF:9530.5/23

All: -1.427+/-0.185 $\chi^2$/NDF: 41663.6/42




Right In: 859.126+/-0.228 $\chi^2$/NDF: 228710.0/15

Left Out: 806.191+/-0.297 $\chi^2$/NDF:1272.0/4

Right Out: 865.213+/-0.225 $\chi^2$/NDF: 223669.1/18

Left In: 799.845+/-0.349 $\chi^2$/NDF:2700.1/2

Left: 803.525+/-0.226 $\chi^2$/NDF: 4164.2/7

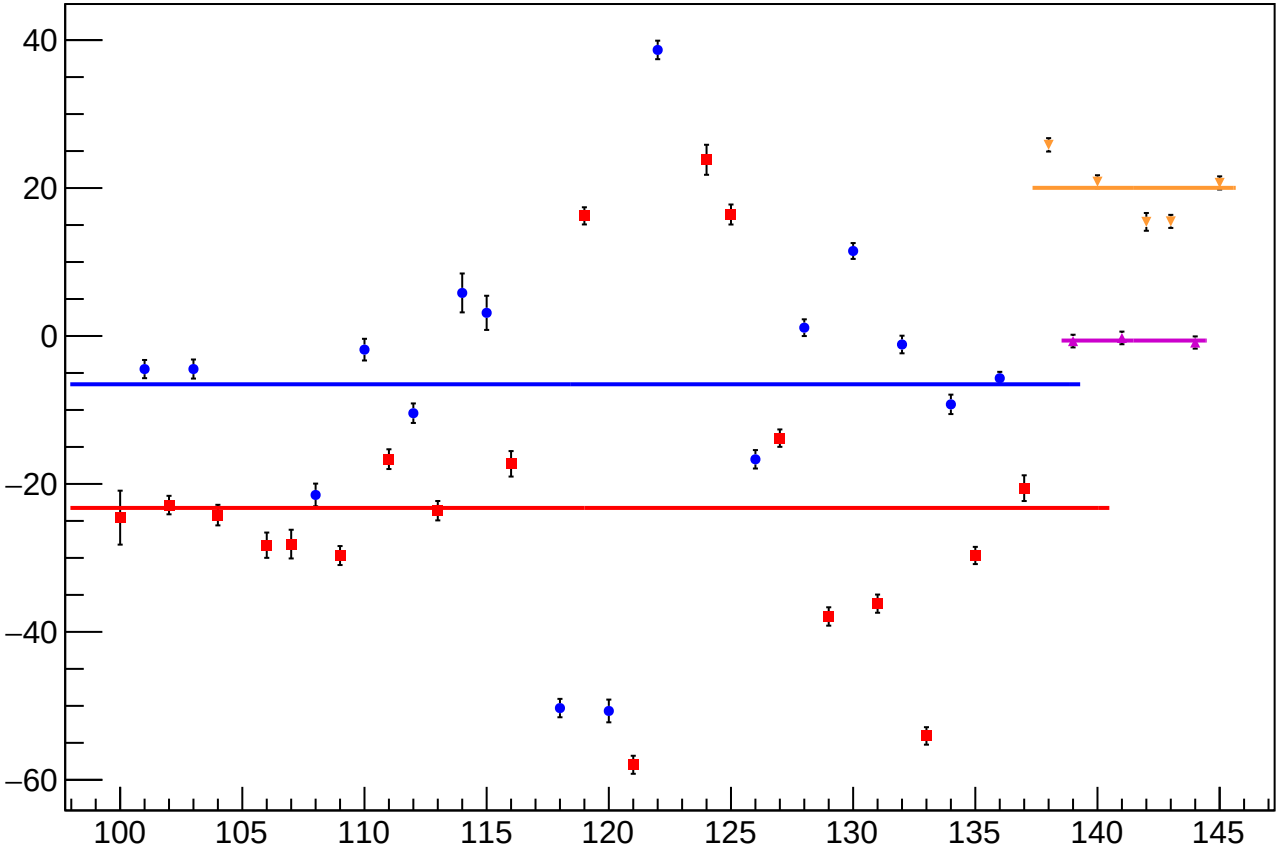
Right: 862.206+/-0.160 $\chi^2$/NDF: 452741.3/34

In: 841.427+/-0.191 $\chi^2$/NDF:251682.8/18

Out: 843.695+/-0.179 $\chi^2$/NDF:250072.9/23

All: 842.630+/-0.131 $\chi^2$/NDF: 501831.0/42

# diff_bpm2i02Y_mean vs Slug, Sign Corrected




Right In: -6.529+/-0.321 $\chi^2$/NDF: 3946.1/15

Left Out: 20.026+/-0.417 $\chi^2$/NDF:83.5/4

Right Out: -23.244+/-0.317 $\chi^2$/NDF: 4470.0/18

Left In: -0.617+/-0.489 $\chi^2$/NDF:0.3/2

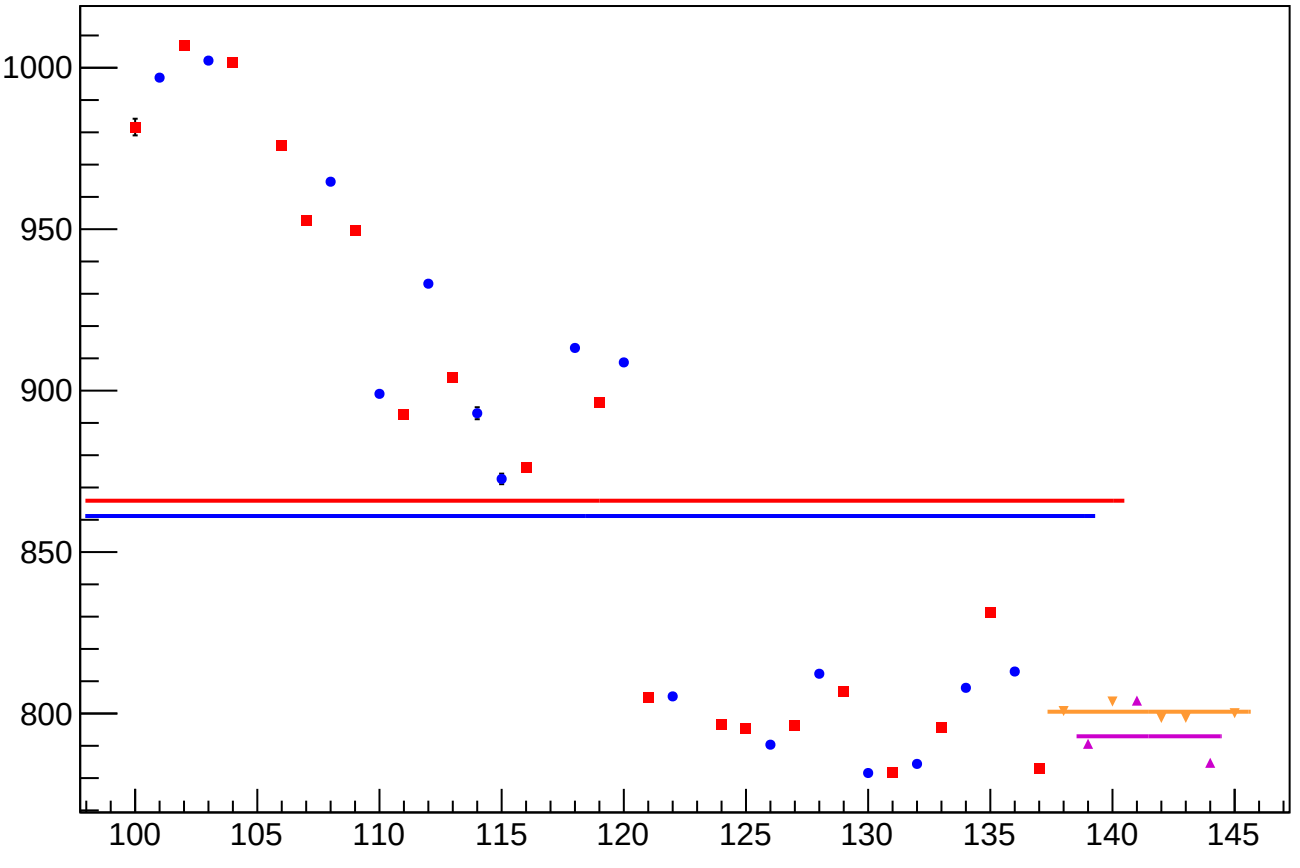
Left: 11.334+/-0.317 $\chi^2$/NDF: 1116.3/7

Right: -14.995+/-0.226 $\chi^2$/NDF: 9787.9/34

In: -4.746+/-0.268 $\chi^2$/NDF:4048.6/18

Out: -7.387+/-0.252 $\chi^2$/NDF:11380.1/23

All: -6.148+/-0.184 $\chi^2$/NDF: 15480.1/42




Right In: 861.169+/-0.227 $\chi^2$/NDF: 113529.7/15

Left Out: 800.557+/-0.295 $\chi^2$/NDF:41.1/4

Right Out: 865.907+/-0.224 $\chi^2$/NDF: 118418.0/18

Left In: 792.947+/-0.346 $\chi^2$/NDF:546.0/2

Left: 797.353+/-0.224 $\chi^2$/NDF: 867.8/7

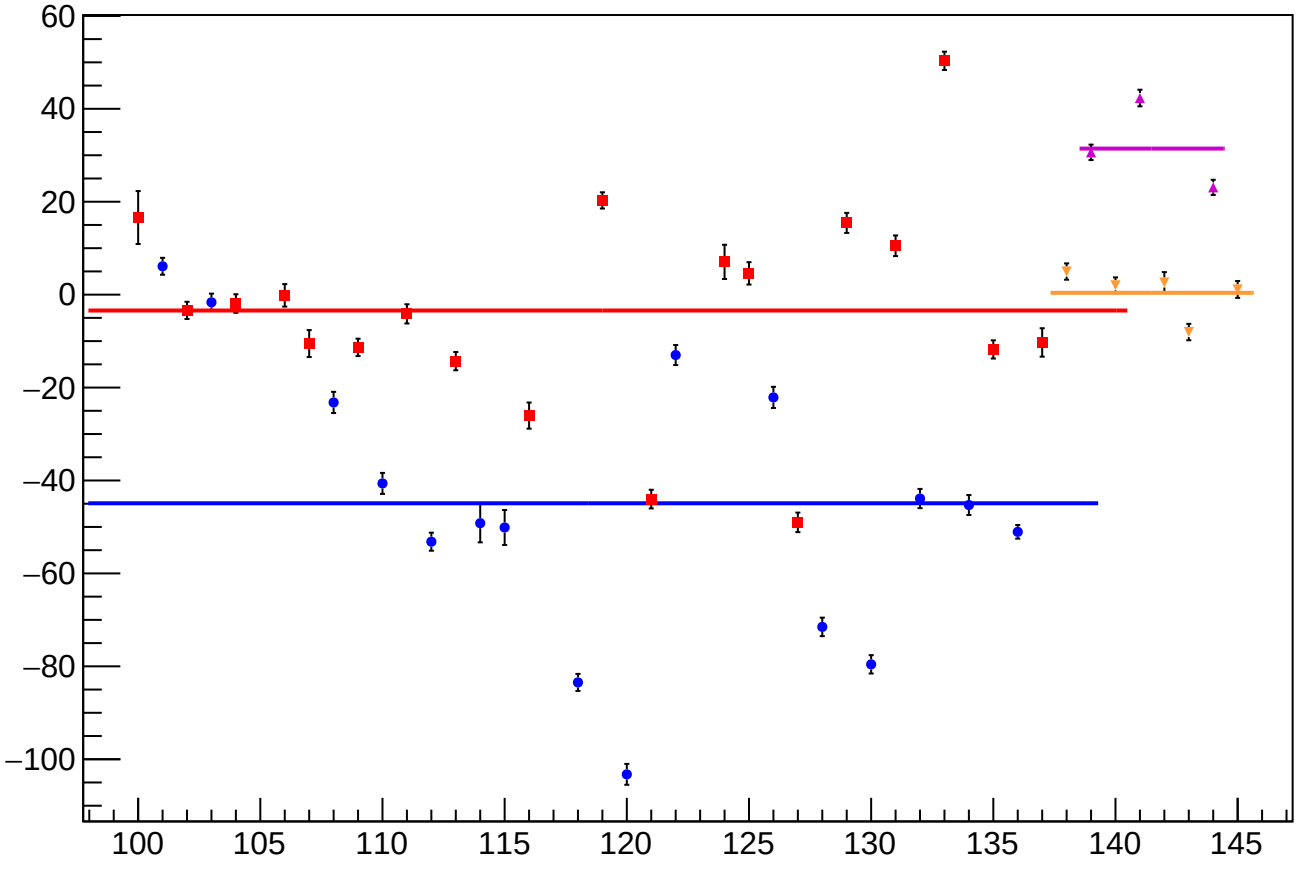
Right: 863.569+/-0.160 $\chi^2$/NDF: 232168.2/34

In: 840.595+/-0.190 $\chi^2$/NDF:141287.9/18

Out: 841.959+/-0.178 $\chi^2$/NDF:149602.3/23

All: 841.319+/-0.130 $\chi^2$/NDF: 290917.7/42

# diff_bpm0i02X_mean vs Slug, Sign Corrected




Right In: -44.905+/-0.520 $\chi^2$/NDF: 3377.6/15

Left Out: 0.399+/-0.818 $\chi^2$/NDF:31.7/4

Right Out: -3.416+/-0.509 $\chi^2$/NDF: 2102.1/18

Left In: 31.437+/-0.976 $\chi^2$/NDF:63.3/2

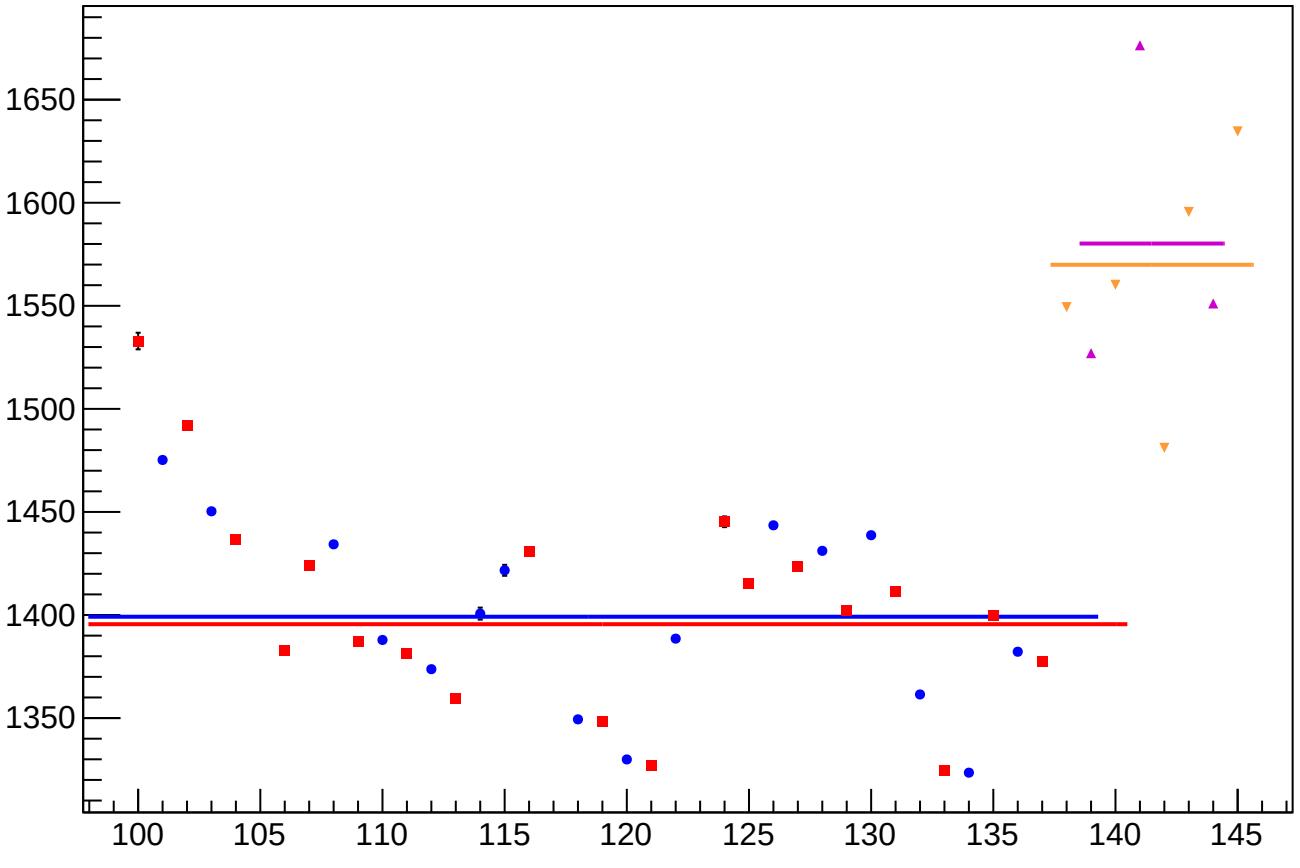
Left: 13.197+/-0.627 $\chi^2$/NDF: 689.0/7

Right: -23.727+/-0.364 $\chi^2$/NDF: 8730.3/34

In: -28.039+/-0.459 $\chi^2$/NDF:8204.6/18

Out: -2.350+/-0.432 $\chi^2$/NDF:2149.5/23

All: -14.427+/-0.315 $\chi^2$/NDF: 12014.7/42




Right In: 1399.172+/-0.368 $\chi^2$/NDF: 14844.1/15

Left Out: 1569.908+/-0.578 $\chi^2$/NDF:6474.3/4

Right Out: 1395.546+/-0.360 $\chi^2$/NDF: 16240.9/18

Left In: 1580.204+/-0.690 $\chi^2$/NDF:8474.0/2

Left: 1574.153+/-0.443 $\chi^2$/NDF: 15079.0/7

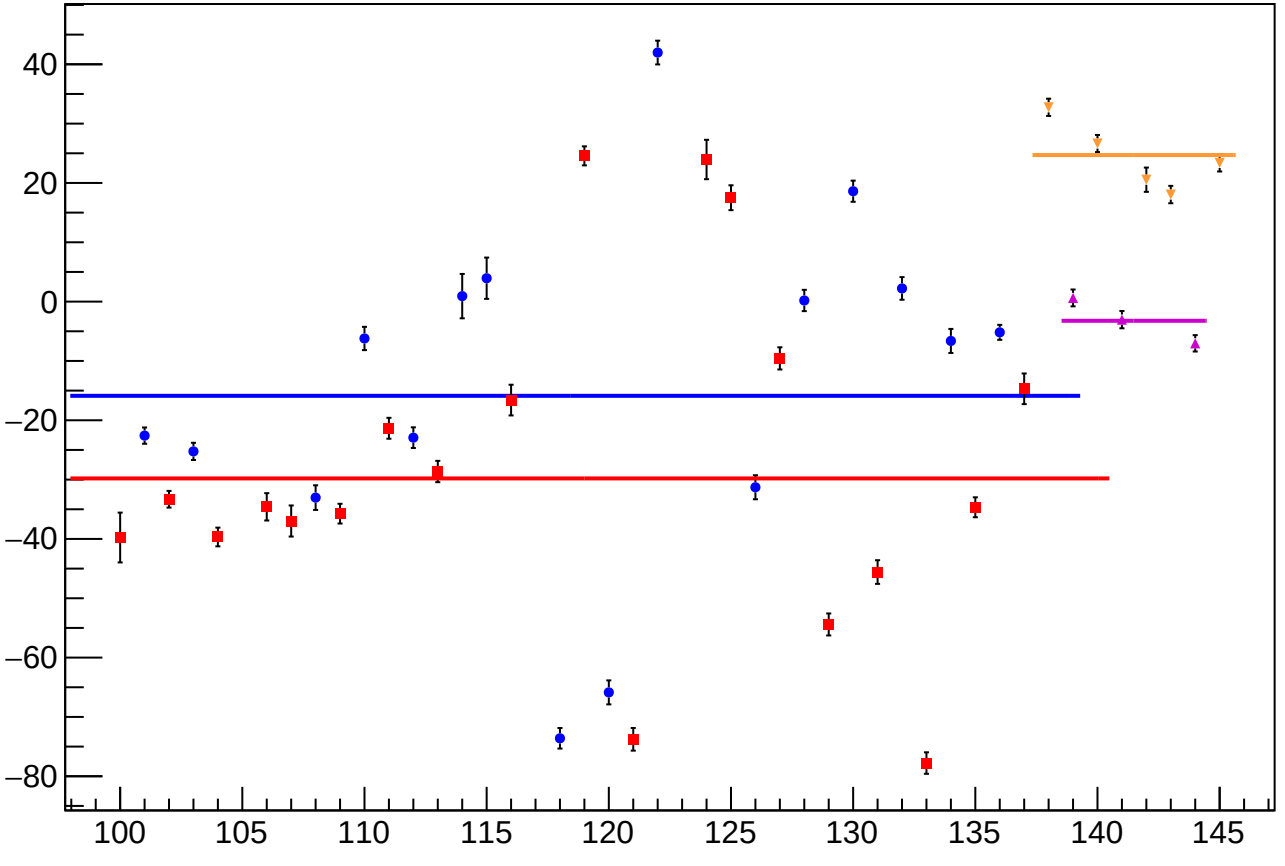
Right: 1397.321+/-0.257 $\chi^2$/NDF: 31134.7/34

In: 1439.167+/-0.324 $\chi^2$/NDF:76892.3/18

Out: 1444.256+/-0.306 $\chi^2$/NDF:88239.9/23

All: 1441.864+/-0.222 $\chi^2$/NDF: 165262.5/42

# diff_bpm0i02Y_mean vs Slug, Sign Corrected




Right In: -15.878+/-0.455 $\chi^2$/NDF: 3477.8/15

Left Out: 24.704+/-0.685 $\chi^2$/NDF:58.0/4

Right Out: -29.801+/-0.444 $\chi^2$/NDF: 3681.2/18

Left In: -3.231+/-0.819 $\chi^2$/NDF:15.0/2

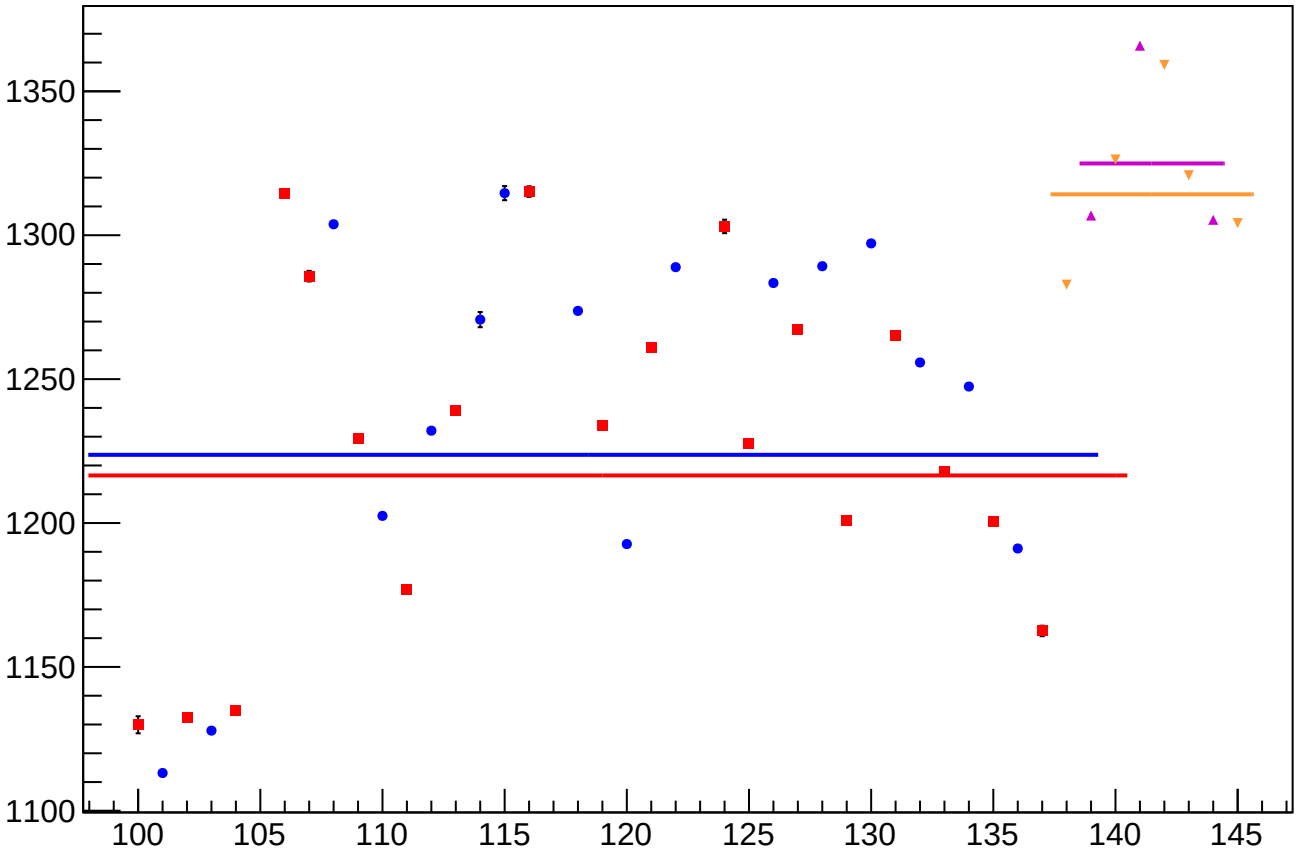
Left: 13.210+/-0.525 $\chi^2$/NDF: 758.2/7

Right: -23.008+/-0.318 $\chi^2$/NDF: 7638.0/34

In: -12.891+/-0.398 $\chi^2$/NDF:3675.0/18

Out: -13.642+/-0.373 $\chi^2$/NDF:8199.5/23

All: -13.291+/-0.272 $\chi^2$/NDF: 11876.5/42




Right In: 1223.702+/-0.322 $\chi^2$/NDF: 40883.8/15

Left Out: 1314.212+/-0.484 $\chi^2$/NDF:2173.0/4

Right Out: 1216.533+/-0.314 $\chi^2$/NDF: 29381.0/18

Left In: 1324.931+/-0.579 $\chi^2$/NDF:2302.5/2

Left: 1318.622+/-0.371 $\chi^2$/NDF: 4677.3/7

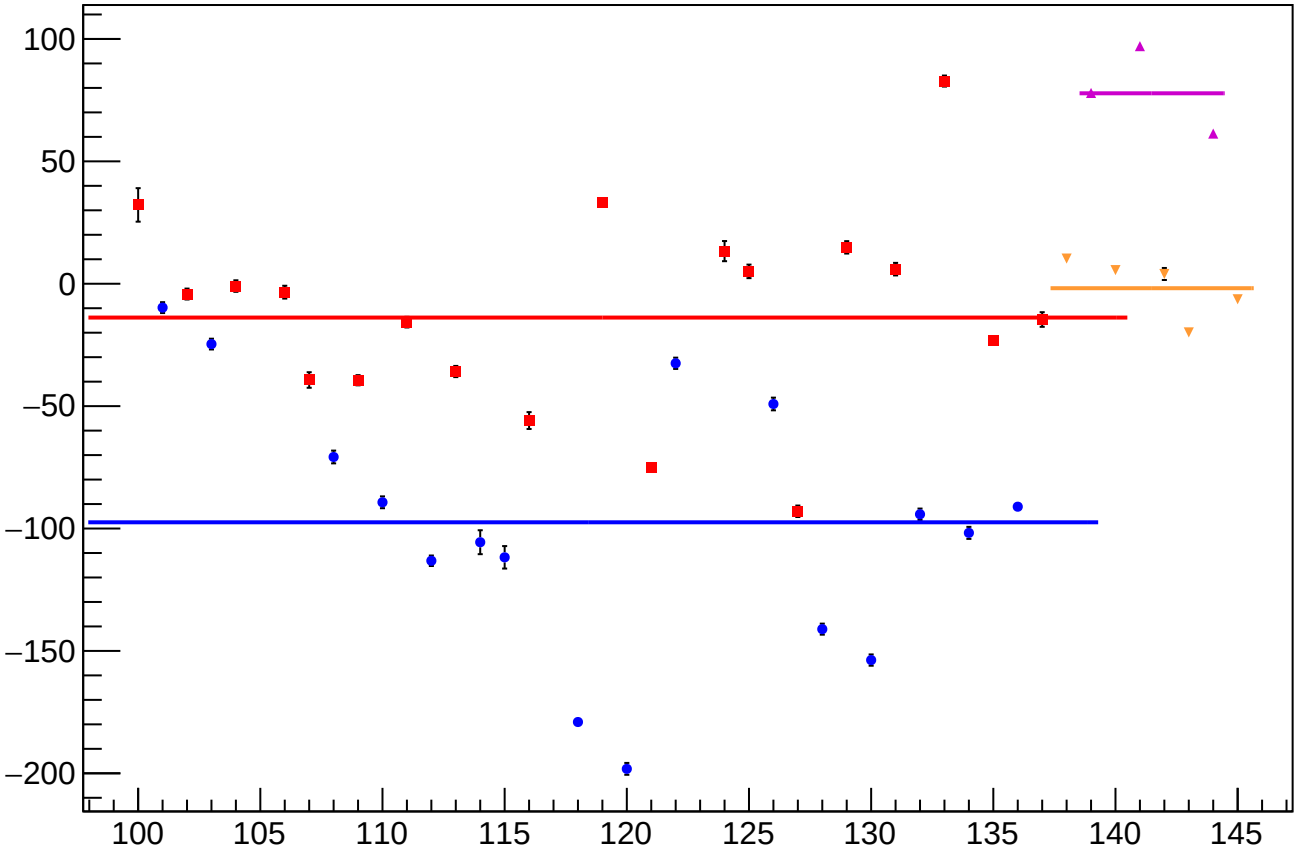
Right: 1220.031+/-0.225 $\chi^2$/NDF: 70518.8/34

In: 1247.610+/-0.281 $\chi^2$/NDF:66542.3/18

Out: 1245.490+/-0.264 $\chi^2$/NDF:60204.0/23

All: 1246.481+/-0.192 $\chi^2$/NDF: 126776.5/42

# diff_bpm0i02aX_mean vs Slug, Sign Corrected




Right In: -97.455+/-0.579 $\chi^2$/NDF: 8300.2/15

Left Out: -1.823+/-0.846 $\chi^2$/NDF:173.9/4

Right Out: -13.816+/-0.566 $\chi^2$/NDF: 5352.2/18

Left In: 77.802+/-1.011 $\chi^2$/NDF:206.3/2

Left: 30.981+/-0.649 $\chi^2$/NDF: 4030.2/7

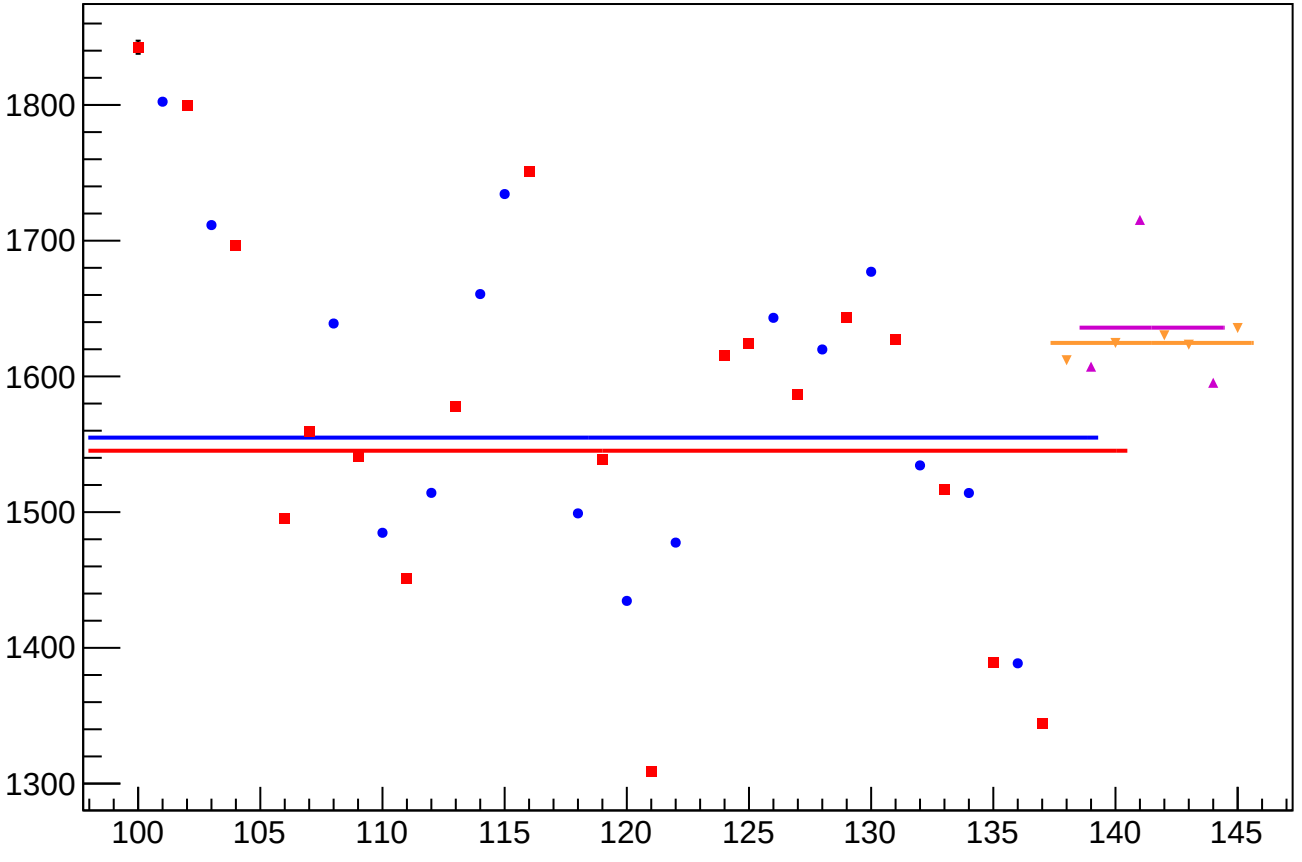
Right: -54.632+/-0.405 $\chi^2$/NDF: 24320.8/34

In: -54.100+/-0.503 $\chi^2$/NDF:31138.7/18

Out: -10.111+/-0.470 $\chi^2$/NDF:5664.9/23

All: -30.640+/-0.343 $\chi^2$/NDF: 40887.8/42

# diff_bpm0i02aX_rms vs Slug, Sign Corrected




Right In: 1554.908+/-0.410 $\chi^2$/NDF: 87920.1/15

Left Out: 1624.681+/-0.598 $\chi^2$/NDF:182.4/4

Right Out: 1545.239+/-0.400 $\chi^2$/NDF: 108789.4/18

Left In: 1635.921+/-0.715 $\chi^2$/NDF:5470.8/2

Left: 1629.312+/-0.459 $\chi^2$/NDF: 5798.6/7

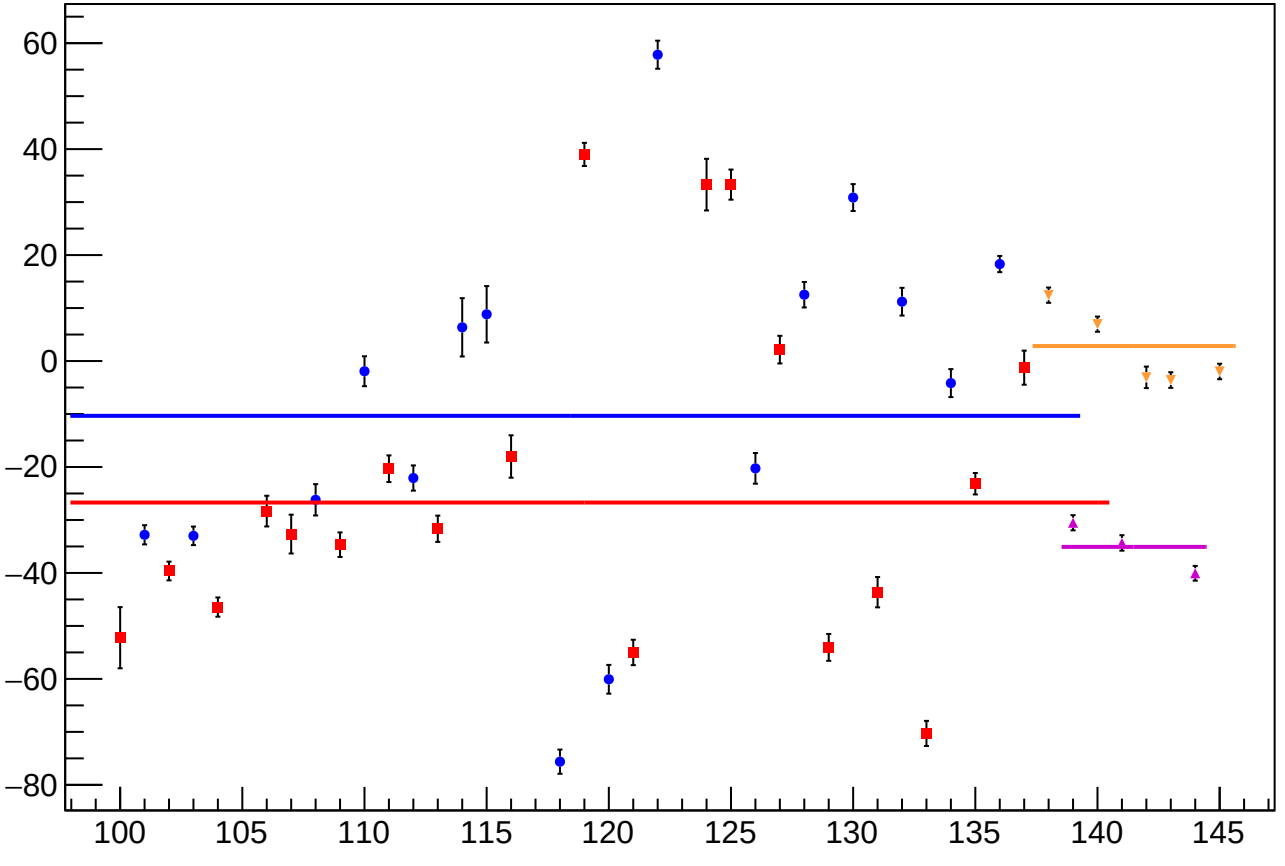
Right: 1549.957+/-0.286 $\chi^2$/NDF: 196994.7/34

In: 1574.949+/-0.355 $\chi^2$/NDF:103062.6/18

Out: 1569.785+/-0.333 $\chi^2$/NDF:121160.0/23

All: 1572.195+/-0.243 $\chi^2$/NDF: 224335.1/42

# diff_bpm0i02aY_mean vs Slug, Sign Corrected




Right In: -10.345+/-0.603 $\chi^2$/NDF: 3007.0/15

Left Out: 2.831+/-0.684 $\chi^2$/NDF:90.7/4

Right Out: -26.709+/-0.586 $\chi^2$/NDF: 2540.7/18

Left In: -35.080+/-0.824 $\chi^2$/NDF:23.2/2

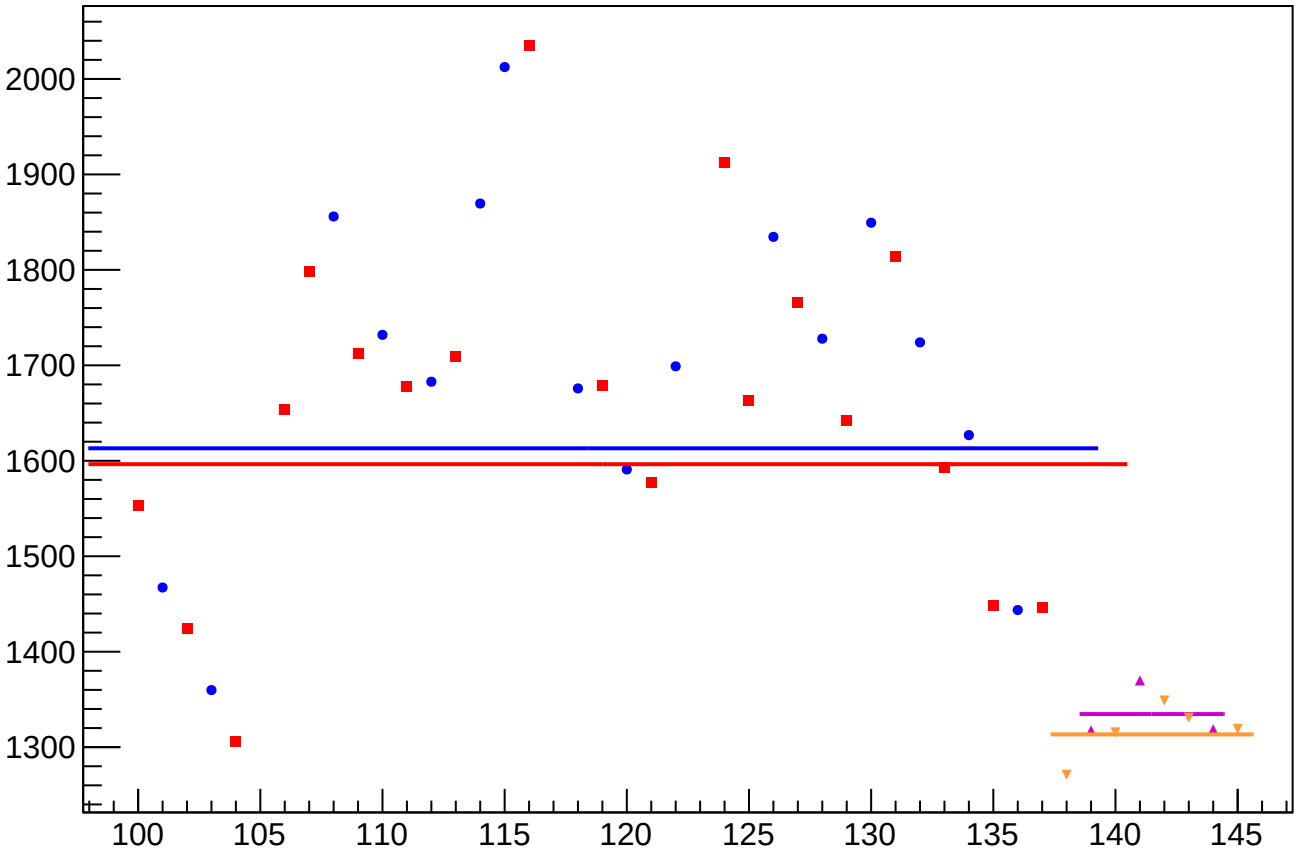
Left: -12.637+/-0.527 $\chi^2$/NDF: 1365.7/7

Right: -18.758+/-0.420 $\chi^2$/NDF: 5926.2/34

In: -18.968+/-0.487 $\chi^2$/NDF:3616.5/18

Out: -14.205+/-0.445 $\chi^2$/NDF:3705.8/23

All: -16.375+/-0.329 $\chi^2$/NDF: 7374.4/42




Right In: 1613.094+/-0.426 $\chi^2$/NDF: 154710.6/15

Left Out: 1313.379+/-0.484 $\chi^2$/NDF:2647.7/4

Right Out: 1596.442+/-0.415 $\chi^2$/NDF: 160714.8/18

Left In: 1334.662+/-0.583 $\chi^2$/NDF:1707.1/2

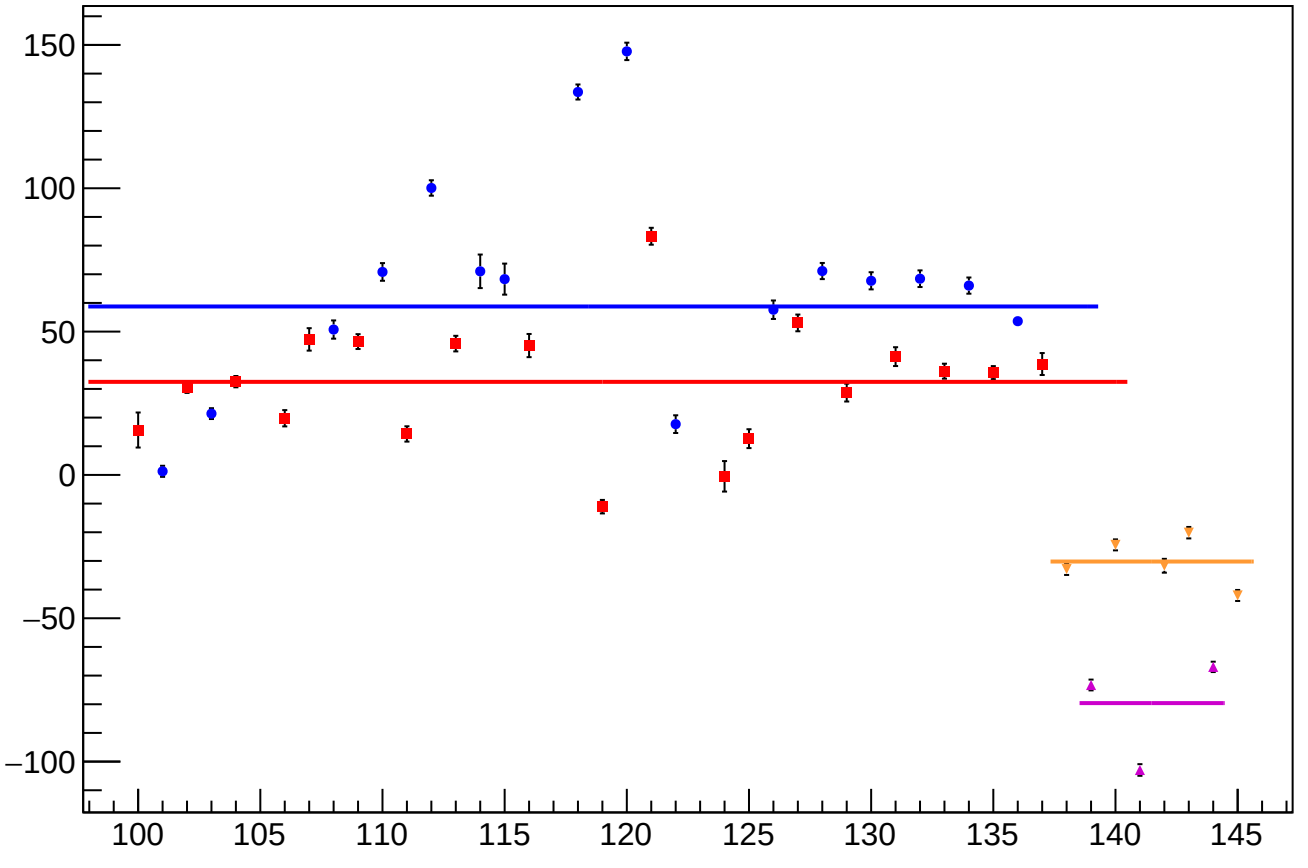
Left: 1322.062+/-0.372 $\chi^2$/NDF: 5143.9/7

Right: 1604.533+/-0.297 $\chi^2$/NDF: 316209.2/34

In: 1516.027+/-0.344 $\chi^2$/NDF:305008.1/18

Out: 1476.623+/-0.315 $\chi^2$/NDF:360656.3/23

All: 1494.574+/-0.232 $\chi^2$/NDF: 672799.4/42




Right In: 58.761+/-0.672 $\chi^2$/NDF: 3443.3/15

Left Out: -30.213+/-0.911 $\chi^2$/NDF:74.5/4

Right Out: 32.467+/-0.648 $\chi^2$/NDF: 930.8/18

Left In: -79.599+/-1.097 $\chi^2$/NDF:192.4/2

Left: -50.378+/-0.701 $\chi^2$/NDF: 1466.8/7

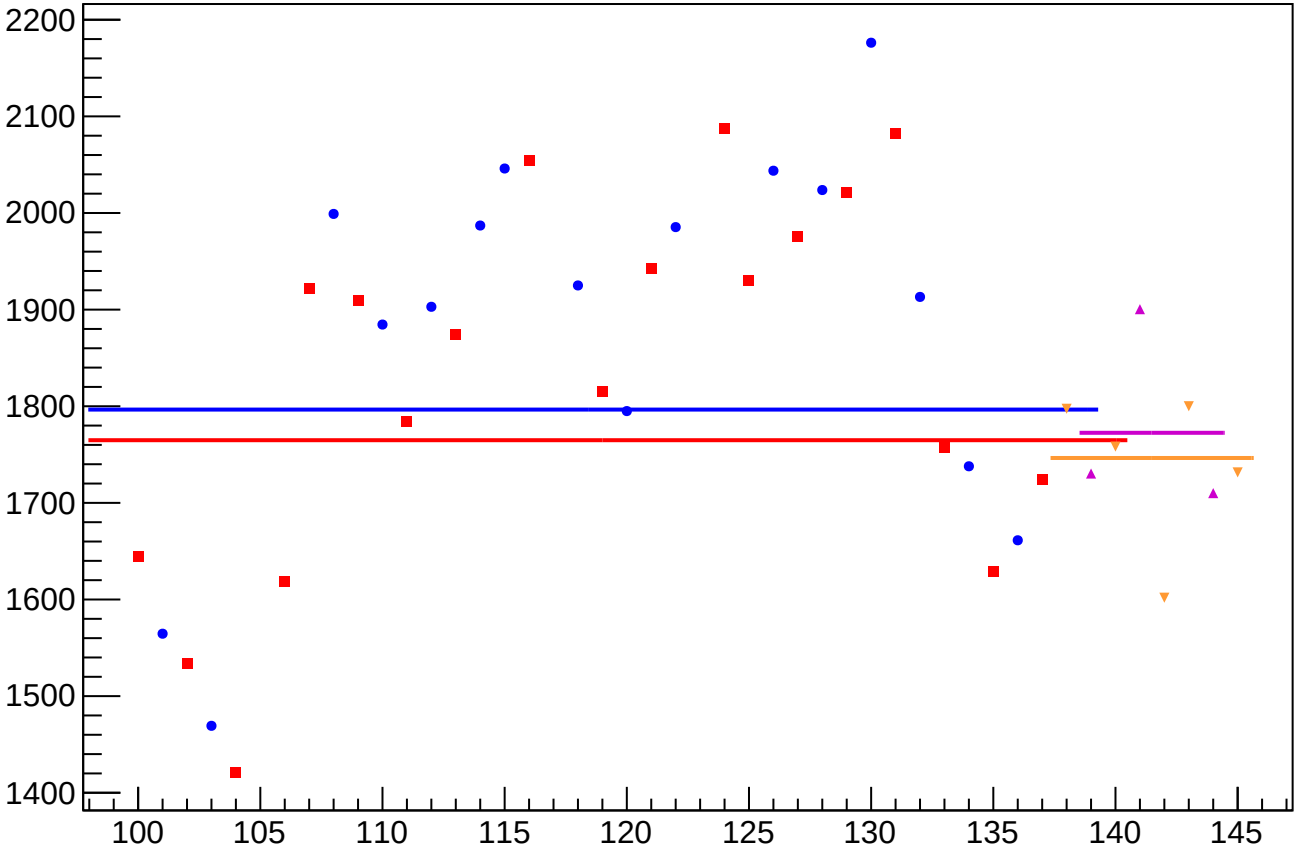
Right: 45.136+/-0.467 $\chi^2$/NDF: 5166.5/34

In: 20.953+/-0.573 $\chi^2$/NDF:15204.0/18

Out: 11.389+/-0.528 $\chi^2$/NDF:4147.3/23

All: 15.781+/-0.388 $\chi^2$/NDF: 19501.9/42

# diff_bpm0i05X_rms vs Slug, Sign Corrected




Right In: 1796.555+/-0.475 $\chi^2$/NDF: 193171.9/15

Left Out: 1746.464+/-0.644 $\chi^2$/NDF:10057.8/4

Right Out: 1764.860+/-0.459 $\chi^2$/NDF: 189987.9/18

Left In: 1772.520+/-0.775 $\chi^2$/NDF:11339.1/2

Left: 1757.103+/-0.496 $\chi^2$/NDF: 22064.9/7

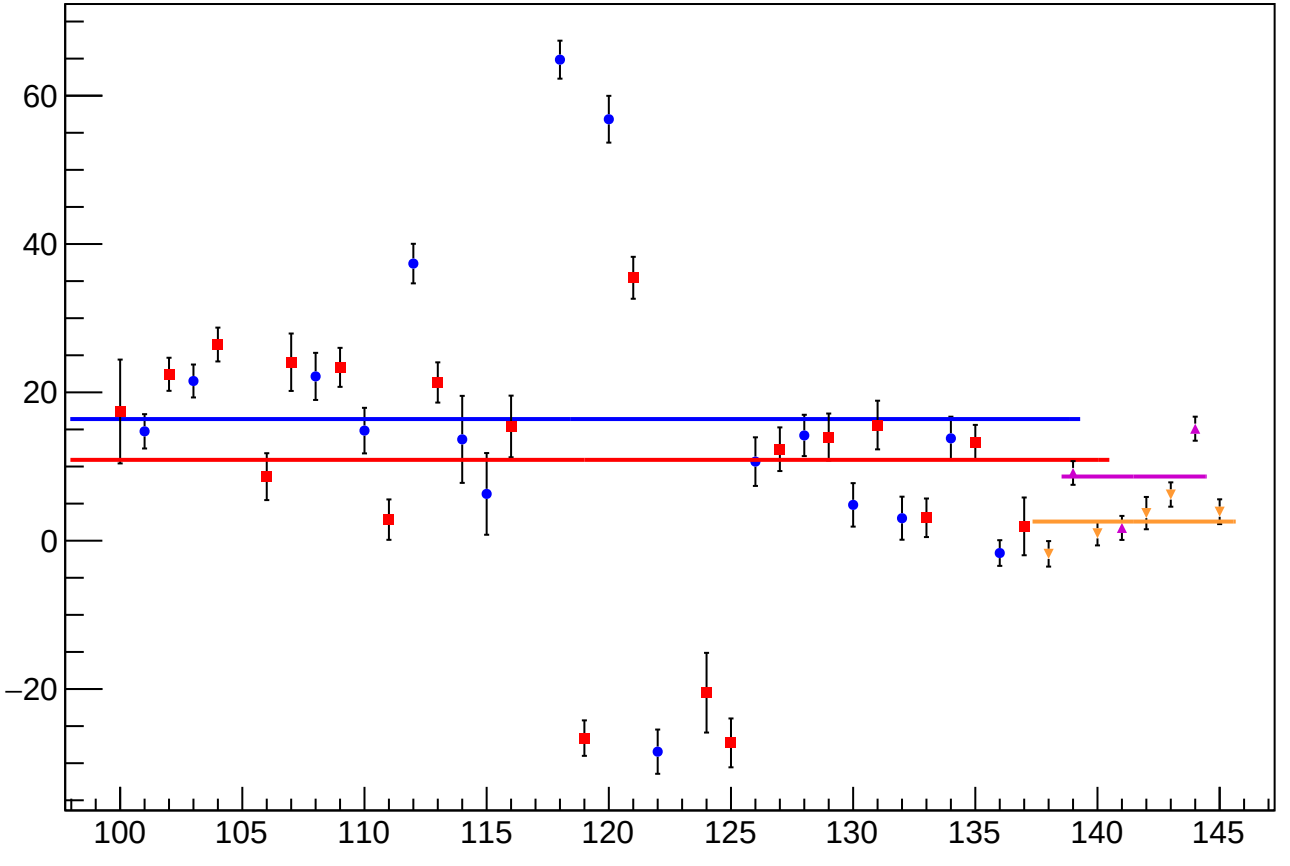
Right: 1780.131+/-0.330 $\chi^2$/NDF: 385462.0/34

In: 1789.987+/-0.405 $\chi^2$/NDF:205209.1/18

Out: 1758.674+/-0.374 $\chi^2$/NDF:200587.0/23

All: 1773.054+/-0.275 $\chi^2$/NDF: 409023.1/42

# diff_bpm0i05Y_mean vs Slug, Sign Corrected




Right In: 16.400+/-0.695 $\chi^2$/NDF: 973.0/15

Left Out: 2.579+/-0.777 $\chi^2$/NDF:13.2/4

Right Out: 10.899+/-0.676 $\chi^2$/NDF: 641.7/18

Left In: 8.652+/-0.931 $\chi^2$/NDF:34.2/2

Left: 5.073+/-0.597 $\chi^2$/NDF: 72.5/7

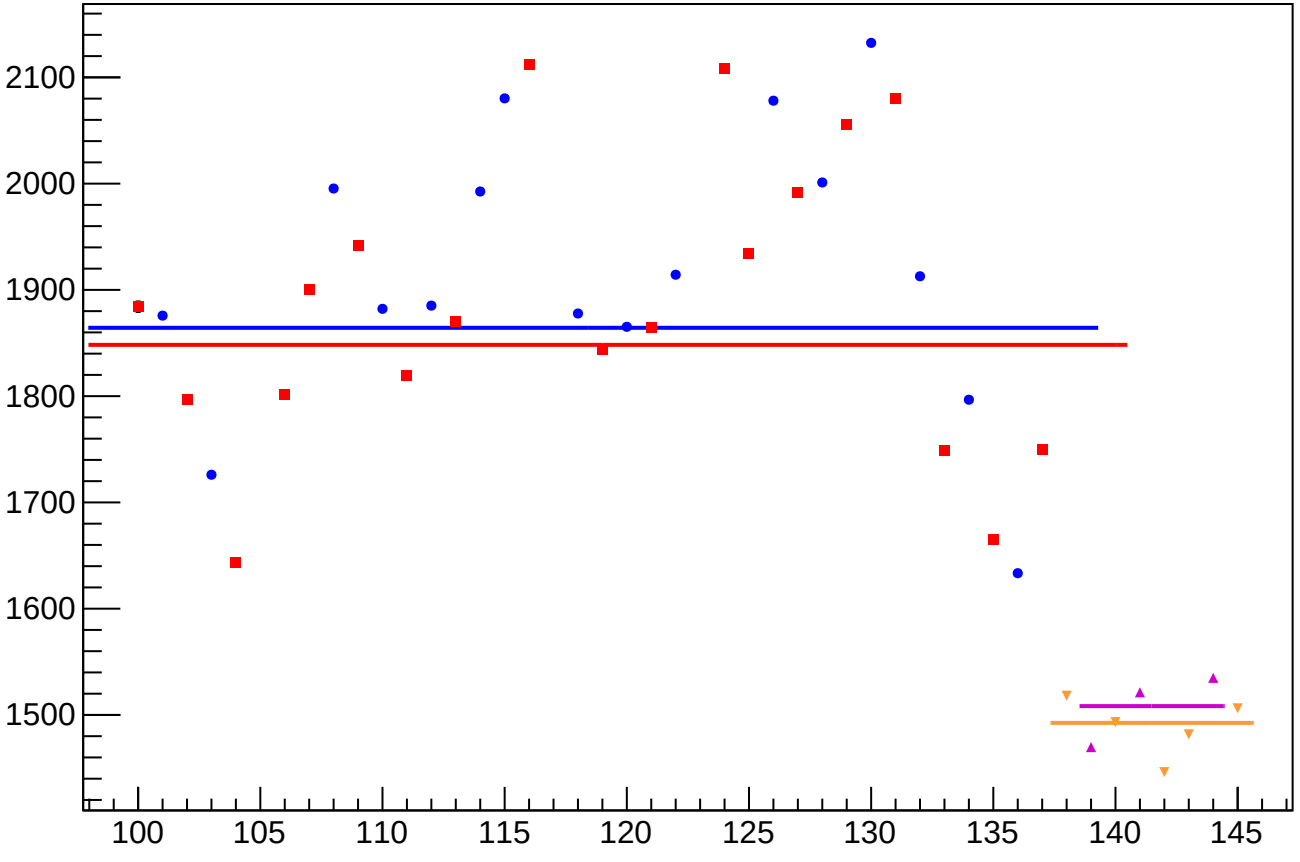
Right: 13.575+/-0.485 $\chi^2$/NDF: 1646.8/34

In: 13.627+/-0.557 $\chi^2$/NDF:1051.7/18

Out: 7.314+/-0.510 $\chi^2$/NDF:720.1/23

All: 10.195+/-0.376 $\chi^2$/NDF: 1841.7/42

# diff_bpm0i05Y_rms vs Slug, Sign Corrected




Right In: 1864.335+/-0.491 $\chi^2$/NDF: 83311.5/15

Left Out: 1492.525+/-0.550 $\chi^2$/NDF:1569.2/4

Right Out: 1848.284+/-0.478 $\chi^2$/NDF: 74956.9/18

Left In: 1508.303+/-0.658 $\chi^2$/NDF:1833.3/2

Left: 1499.005+/-0.422 $\chi^2$/NDF: 3741.0/7

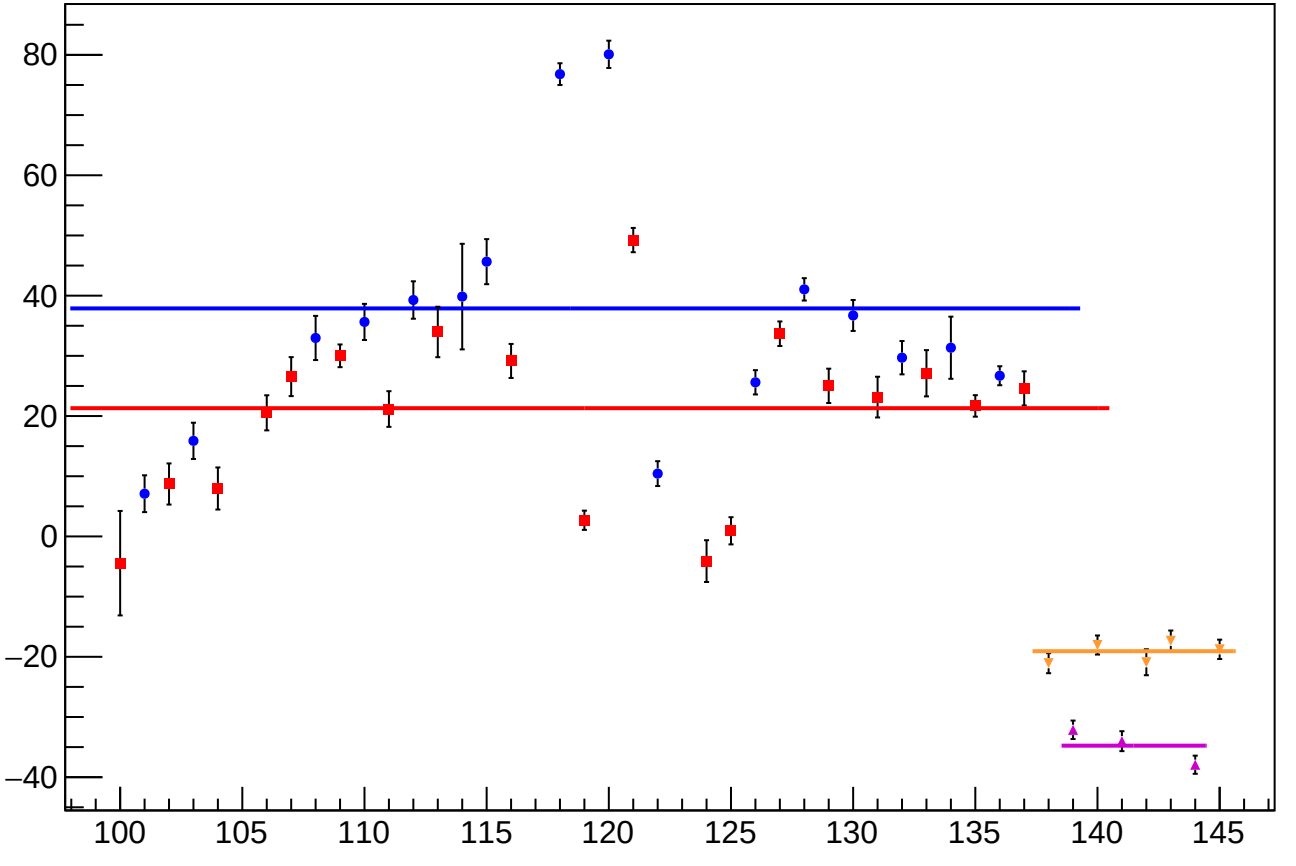
Right: 1856.091+/-0.343 $\chi^2$/NDF: 158816.4/34

In: 1736.928+/-0.394 $\chi^2$/NDF:272980.0/18

Out: 1694.991+/-0.361 $\chi^2$/NDF:315024.7/23

All: 1714.126+/-0.266 $\chi^2$/NDF: 594171.2/42

# diff_bpm0i07X_mean vs Slug, Sign Corrected




Right In: 37.880+/-0.622 $\chi^2$/NDF: 1249.8/15

Left Out: -19.066+/-0.767 $\chi^2$/NDF:3.6/4

Right Out: 21.306+/-0.593 $\chi^2$/NDF: 582.6/18

Left In: -34.761+/-0.902 $\chi^2$/NDF:7.6/2

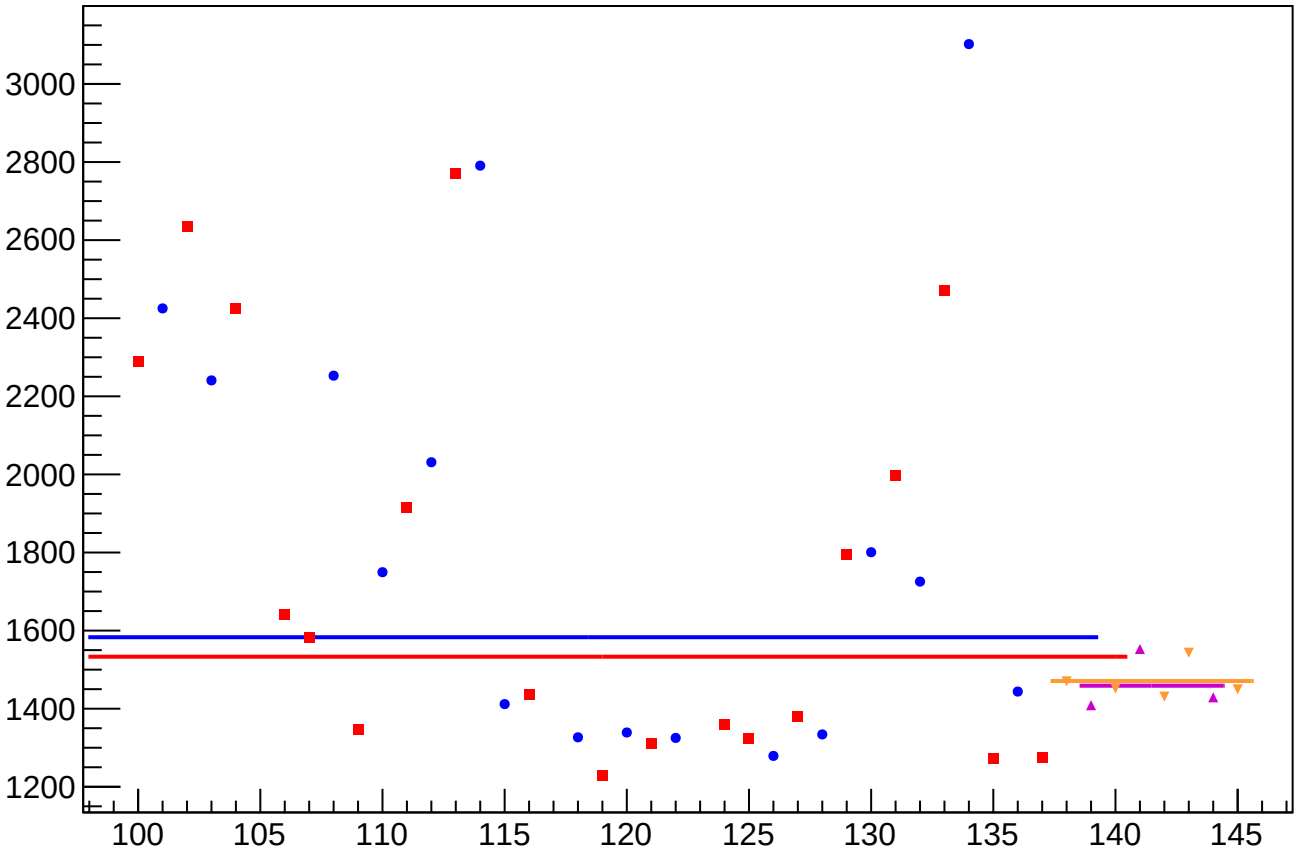
Left: -25.651+/-0.584 $\chi^2$/NDF: 187.1/7

Right: 29.192+/-0.429 $\chi^2$/NDF: 2204.2/34

In: 14.441+/-0.512 $\chi^2$/NDF:5653.2/18

Out: 6.195+/-0.469 $\chi^2$/NDF:2321.5/23

All: 9.956+/-0.346 $\chi^2$/NDF: 8115.7/42




Right In: 1583.050+/-0.440 $\chi^2$/NDF: 787672.4/15

Left Out: 1470.832+/-0.542 $\chi^2$/NDF:4900.4/4

Right Out: 1533.190+/-0.419 $\chi^2$/NDF: 950777.4/18

Left In: 1458.884+/-0.638 $\chi^2$/NDF:9338.5/2

Left: 1465.819+/-0.413 $\chi^2$/NDF: 14442.7/7

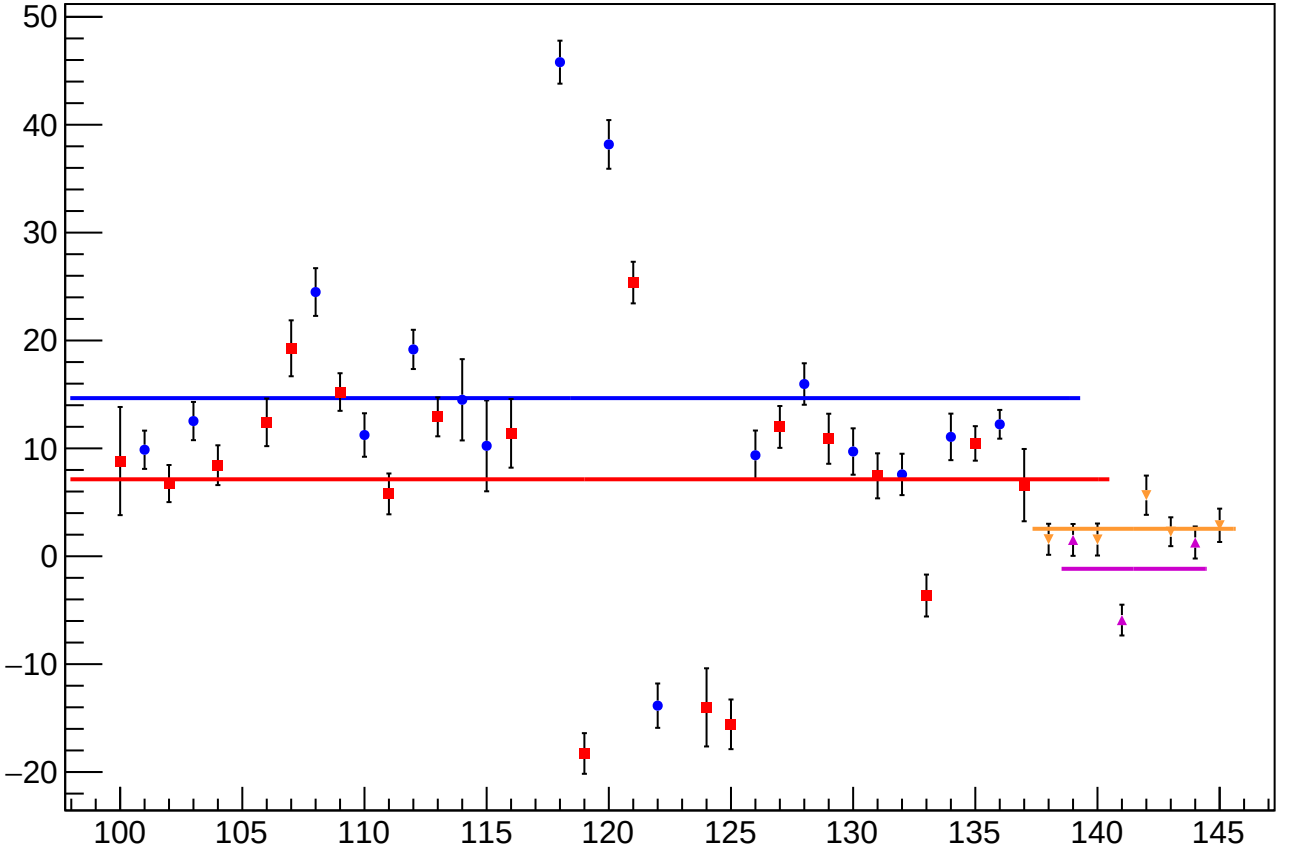
Right: 1556.913+/-0.304 $\chi^2$/NDF: 1745178.6/34

In: 1542.985+/-0.362 $\chi^2$/NDF:822697.2/18

Out: 1509.849+/-0.332 $\chi^2$/NDF:963957.6/23

All: 1524.961+/-0.245 $\chi^2$/NDF: 1791207.7/42

# diff_bpm0i07Y_mean vs Slug, Sign Corrected




Right In: 14.658+/-0.504 $\chi^2$/NDF: 614.8/15

Left Out: 2.547+/-0.671 $\chi^2$/NDF:3.9/4

Right Out: 7.135+/-0.483 $\chi^2$/NDF: 509.4/18

Left In: -1.162+/-0.844 $\chi^2$/NDF:17.1/2

Left: 1.110+/-0.526 $\chi^2$/NDF: 32.8/7

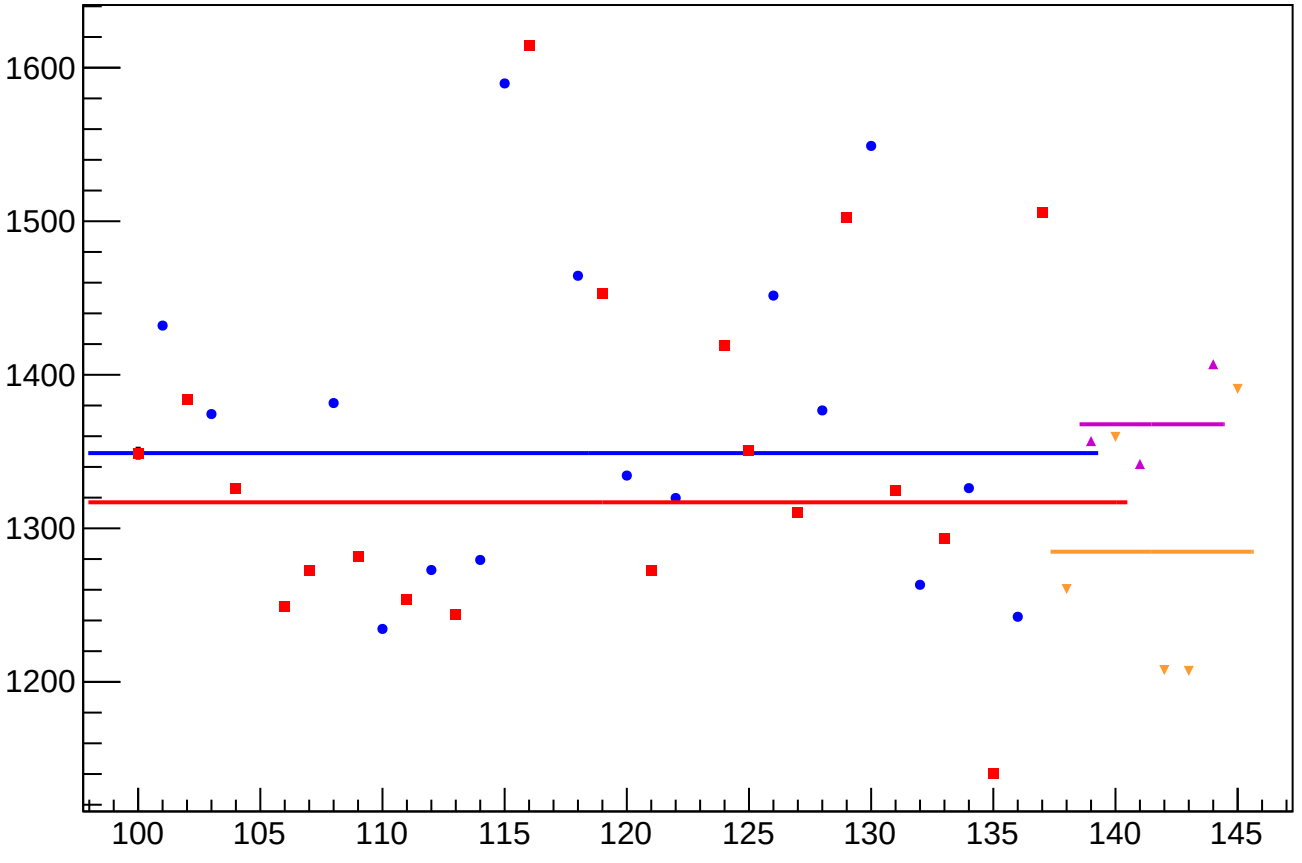
Right: 10.734+/-0.349 $\chi^2$/NDF: 1240.2/34

In: 10.496+/-0.433 $\chi^2$/NDF:890.5/18

Out: 5.570+/-0.392 $\chi^2$/NDF:544.1/23

All: 7.789+/-0.291 $\chi^2$/NDF: 1505.7/42

# diff_bpm0i07Y_rms vs Slug, Sign Corrected




Right In: 1349.000+/-0.357 $\chi^2$/NDF: 68383.7/15

Left Out: 1284.772+/-0.475 $\chi^2$/NDF:25402.6/4

Right Out: 1316.961+/-0.342 $\chi^2$/NDF: 86873.7/18

Left In: 1367.781+/-0.597 $\chi^2$/NDF:2153.1/2

Left: 1316.929+/-0.372 $\chi^2$/NDF: 39395.6/7

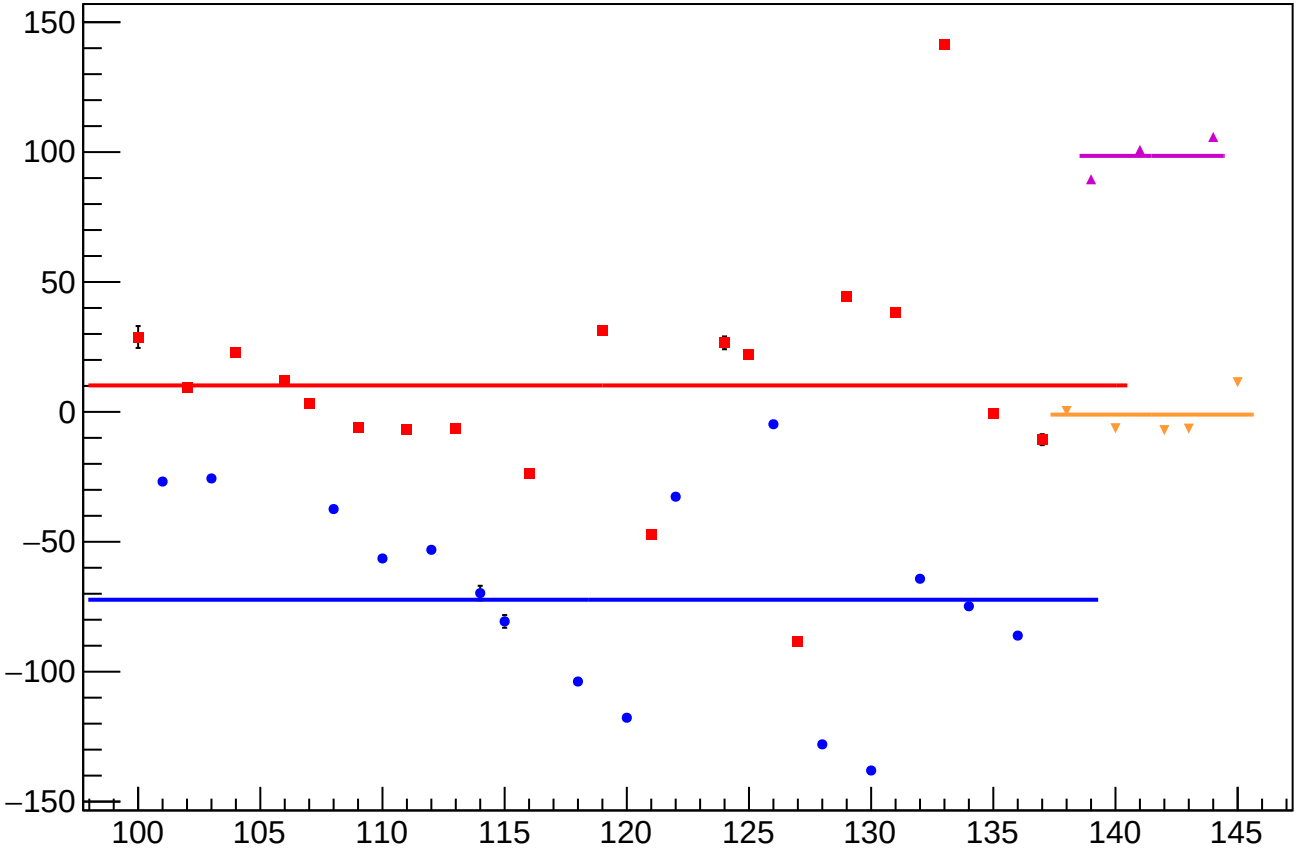
Right: 1332.289+/-0.247 $\chi^2$/NDF: 159464.7/34

In: 1353.941+/-0.306 $\chi^2$/NDF:71266.0/18

Out: 1305.980+/-0.277 $\chi^2$/NDF:115304.2/23

All: 1327.590+/-0.206 $\chi^2$/NDF: 200046.0/42

# diff_bpm1i02X_mean vs Slug, Sign Corrected




Right In: -72.304+/-0.349 $\chi^2$/NDF: 12153.8/15

Left Out: -1.039+/-0.485 $\chi^2$/NDF:216.7/4

Right Out: 10.188+/-0.345 $\chi^2$/NDF: 19045.9/18

Left In: 98.545+/-0.571 $\chi^2$/NDF:144.0/2

Left: 40.676+/-0.369 $\chi^2$/NDF: 18048.5/7

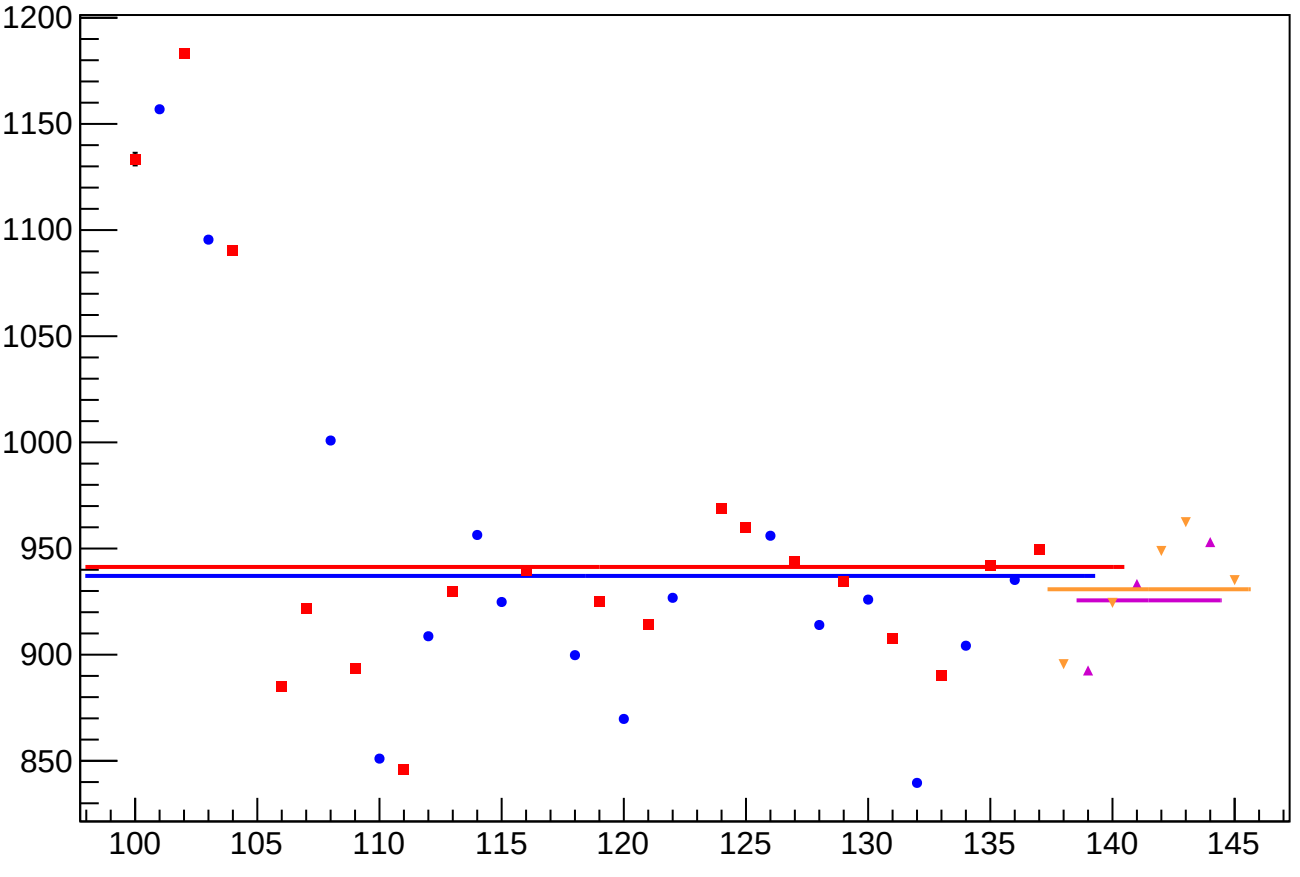
Right: -30.473+/-0.245 $\chi^2$/NDF: 59456.9/34

In: -25.726+/-0.298 $\chi^2$/NDF:77463.3/18

Out: 6.419+/-0.281 $\chi^2$/NDF:19619.1/23

All: -8.697+/-0.204 $\chi^2$/NDF: 103244.6/42

# diff_bpm1i02X_rms vs Slug, Sign Corrected




Right In: 937.097+/-0.247 $\chi^2$/NDF: 104660.4/15

Left Out: 930.812+/-0.343 $\chi^2$/NDF:4614.5/4

Right Out: 941.323+/-0.244 $\chi^2$/NDF: 101031.2/18

Left In: 925.586+/-0.404 $\chi^2$/NDF:3931.1/2

Left: 928.623+/-0.261 $\chi^2$/NDF: 8643.0/7

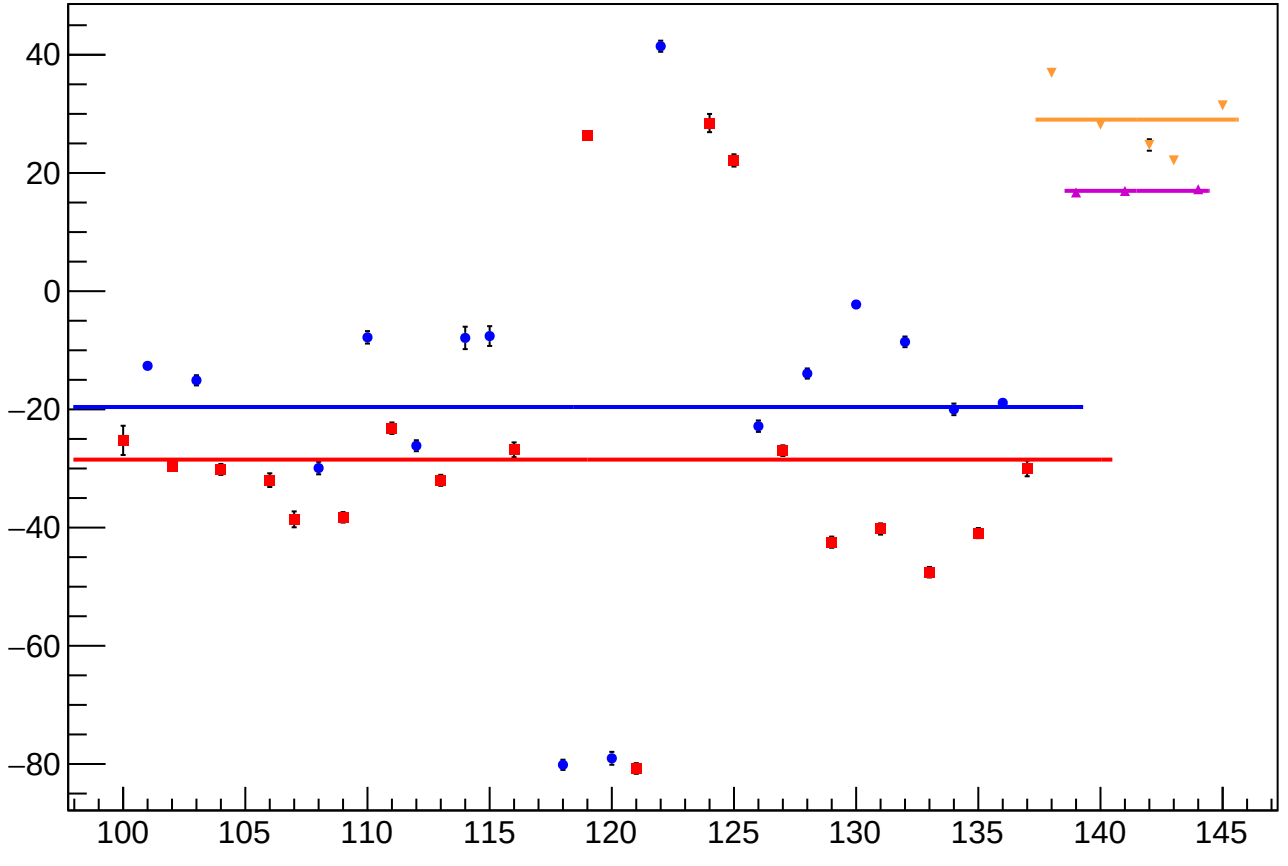
Right: 939.240+/-0.173 $\chi^2$/NDF: 205839.9/34

In: 933.959+/-0.211 $\chi^2$/NDF:109183.2/18

Out: 937.794+/-0.199 $\chi^2$/NDF:106270.7/23

All: 935.991+/-0.145 $\chi^2$/NDF: 215629.2/42

# diff_bpm1i02Y_mean vs Slug, Sign Corrected




Right In: -19.597+/-0.234 $\chi^2$/NDF: 13170.1/15

Left Out: 29.032+/-0.334 $\chi^2$/NDF:248.4/4

Right Out: -28.496+/-0.230 $\chi^2$/NDF: 12971.2/18

Left In: 16.980+/-0.399 $\chi^2$/NDF:0.3/2

Left: 24.061+/-0.256 $\chi^2$/NDF: 785.3/7

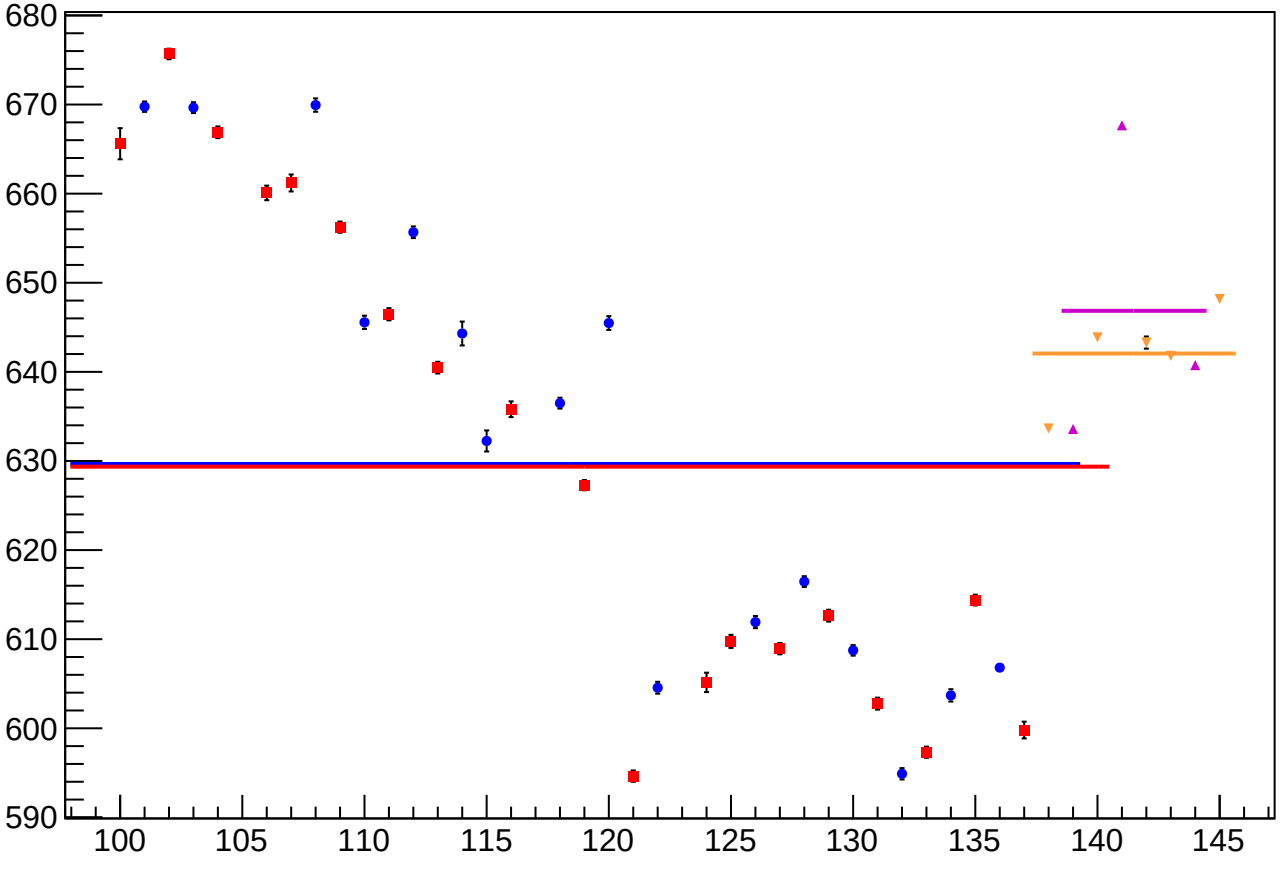
Right: -24.130+/-0.164 $\chi^2$/NDF: 26877.8/34

In: -10.227+/-0.202 $\chi^2$/NDF:19426.6/18

Out: -10.036+/-0.189 $\chi^2$/NDF:33350.8/23

All: -10.125+/-0.138 $\chi^2$/NDF: 52777.9/42

# diff_bpm1i02Y_rms vs Slug, Sign Corrected




Right In: 629.660+/-0.166 $\chi^2$/NDF: 25315.5/15

Left Out: 642.055+/-0.236 $\chi^2$/NDF:436.2/4

Right Out: 629.361+/-0.162 $\chi^2$/NDF: 26791.2/18

Left In: 646.850+/-0.282 $\chi^2$/NDF:2625.7/2

Left: 644.033+/-0.181 $\chi^2$/NDF: 3231.9/7

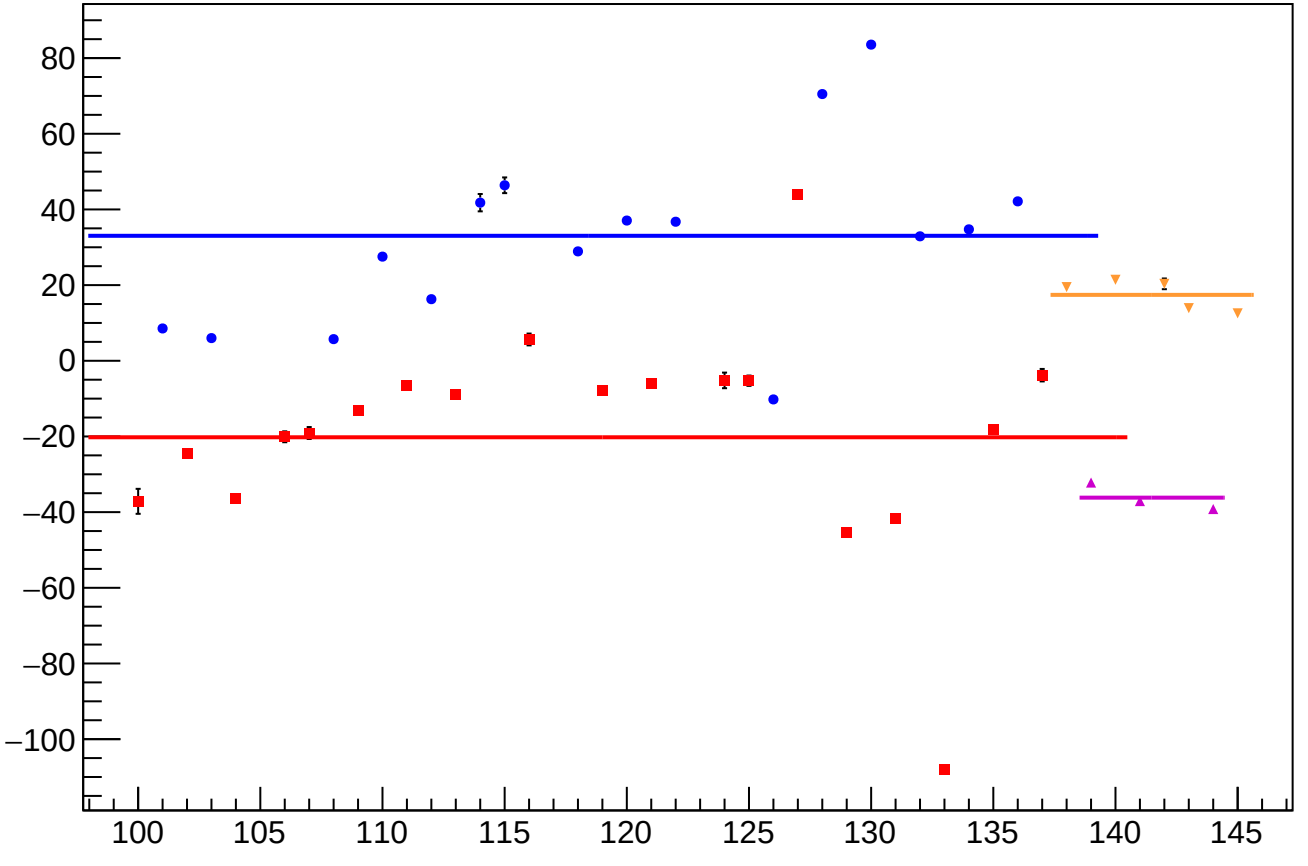
Right: 629.508+/-0.116 $\chi^2$/NDF: 52108.4/34

In: 634.064+/-0.143 $\chi^2$/NDF:30705.0/18

Out: 633.434+/-0.134 $\chi^2$/NDF:29187.7/23

All: 633.729+/-0.098 $\chi^2$/NDF: 59903.2/42

# diff_bpm1i04X_mean vs Slug, Sign Corrected




Right In: 33.033+/-0.289 $\chi^2$/NDF: 6700.1/15

Left Out: 17.422+/-0.510 $\chi^2$/NDF:50.8/4

Right Out: -20.215+/-0.286 $\chi^2$/NDF: 11869.7/18

Left In: -36.171+/-0.600 $\chi^2$/NDF:23.9/2

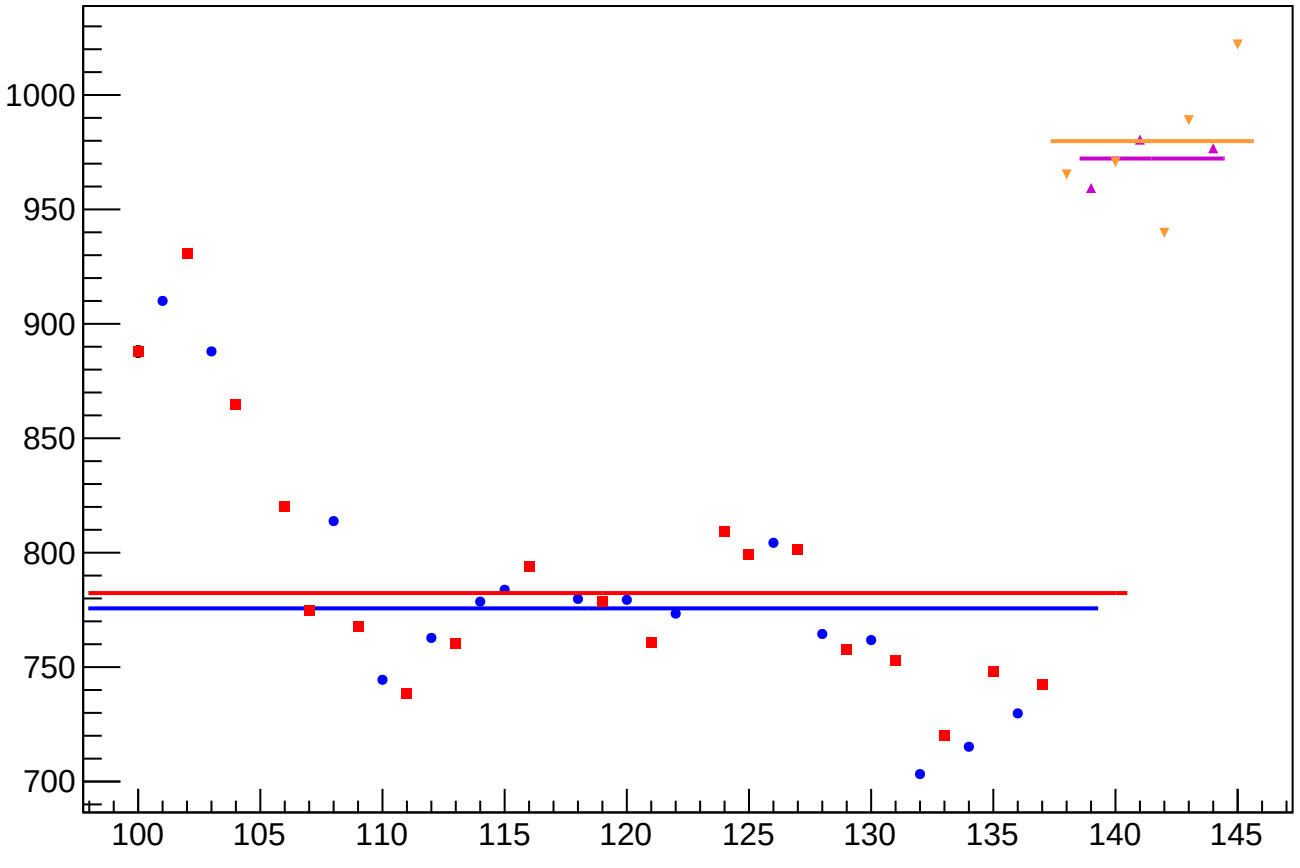
Left: -5.089+/-0.389 $\chi^2$/NDF: 4708.6/7

Right: 6.136+/-0.203 $\chi^2$/NDF: 35729.1/34

In: 19.993+/-0.260 $\chi^2$/NDF:17536.3/18

Out: -11.220+/-0.249 $\chi^2$/NDF:16060.9/23

All: 3.725+/-0.180 $\chi^2$/NDF: 41092.9/42




Right In: 775.664+/-0.204 $\chi^2$/NDF: 74660.0/15

Left Out: 979.859+/-0.361 $\chi^2$/NDF:5019.6/4

Right Out: 782.358+/-0.202 $\chi^2$/NDF: 64566.3/18

Left In: 972.240+/-0.424 $\chi^2$/NDF:468.4/2

Left: 976.658+/-0.275 $\chi^2$/NDF: 5675.3/7

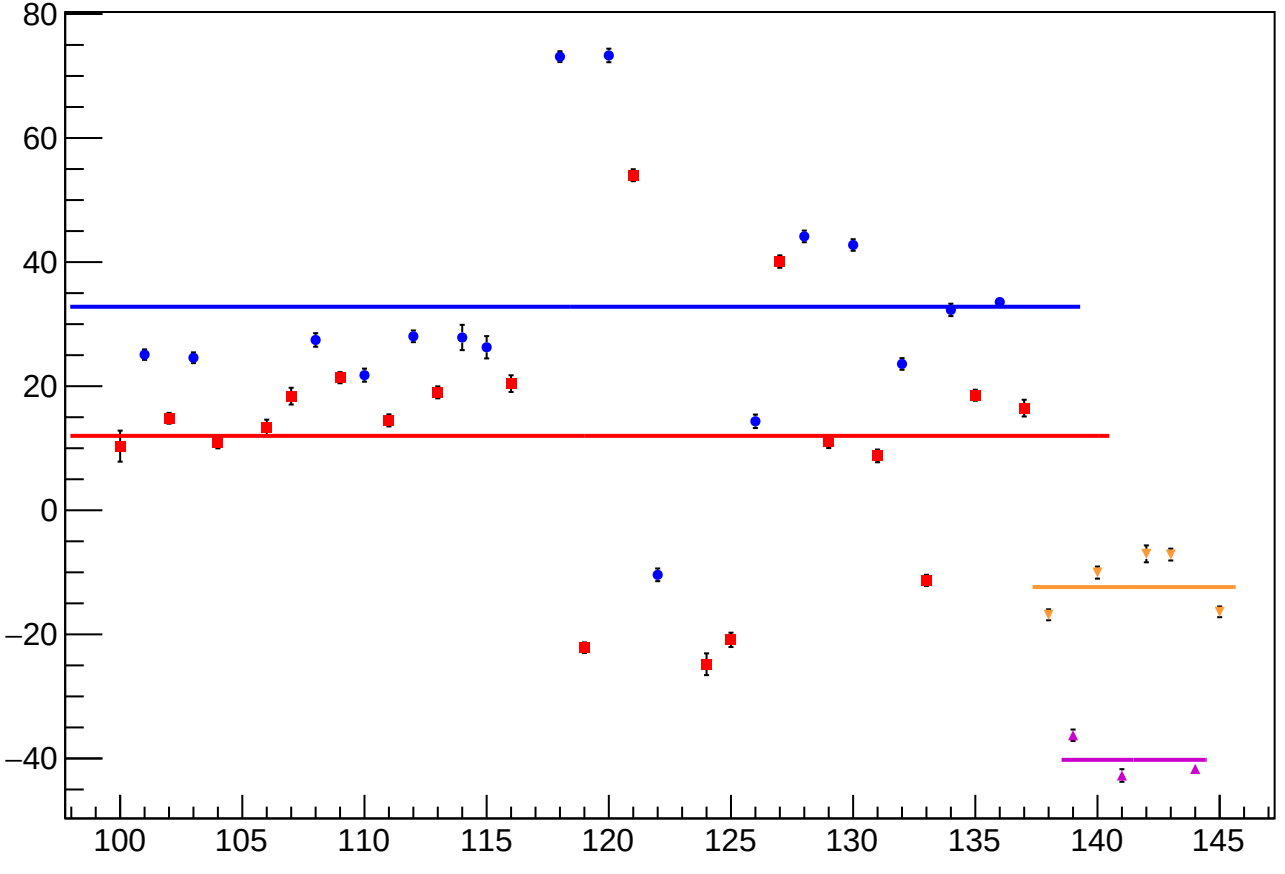
Right: 779.045+/-0.144 $\chi^2$/NDF: 139768.7/34

In: 812.706+/-0.184 $\chi^2$/NDF:249605.3/18

Out: 829.562+/-0.176 $\chi^2$/NDF:297604.7/23

All: 821.491+/-0.127 $\chi^2$/NDF: 551582.3/42

# diff_bpm1i04Y_mean vs Slug, Sign Corrected




Right In: 32.804+/-0.244 $\chi^2$/NDF: 6259.3/15

Left Out: -12.375+/-0.434 $\chi^2$/NDF:98.2/4

Right Out: 11.994+/-0.241 $\chi^2$/NDF: 6559.7/18

Left In: -40.220+/-0.522 $\chi^2$/NDF:27.9/2

Left: -23.752+/-0.334 $\chi^2$/NDF: 1809.5/7

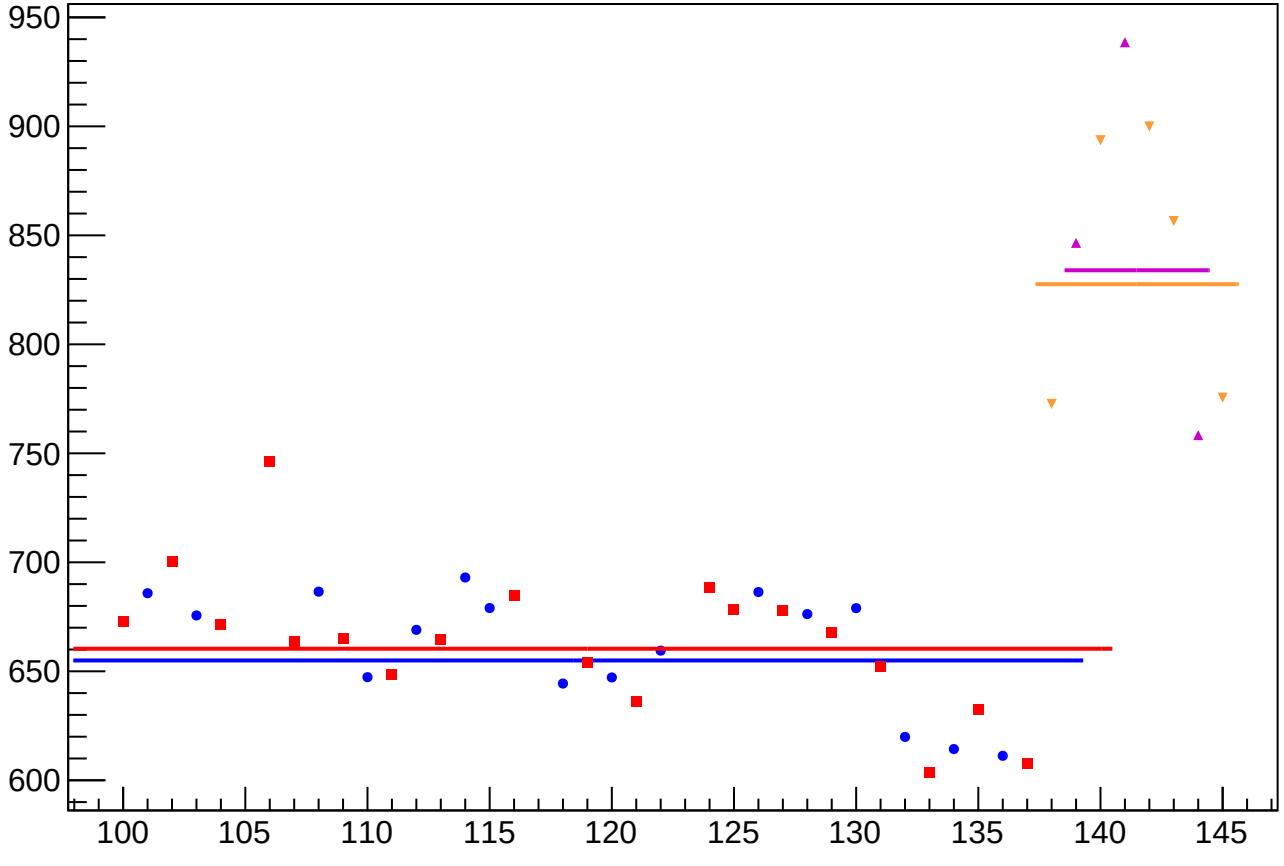
Right: 22.296+/-0.171 $\chi^2$/NDF: 16506.5/34

In: 19.749+/-0.221 $\chi^2$/NDF:22363.3/18

Out: 6.242+/-0.211 $\chi^2$/NDF:9068.6/23

All: 12.685+/-0.152 $\chi^2$/NDF: 33391.0/42

# diff_bpm1i04Y_rms vs Slug, Sign Corrected




Right In: 654.970+/-0.172 $\chi^2$/NDF: 26744.4/15

Left Out: 827.591+/-0.307 $\chi^2$/NDF:31669.8/4

Right Out: 660.355+/-0.171 $\chi^2$/NDF: 30417.5/18

Left In: 833.977+/-0.369 $\chi^2$/NDF:38959.2/2

Left: 830.200+/-0.236 $\chi^2$/NDF: 70806.1/7

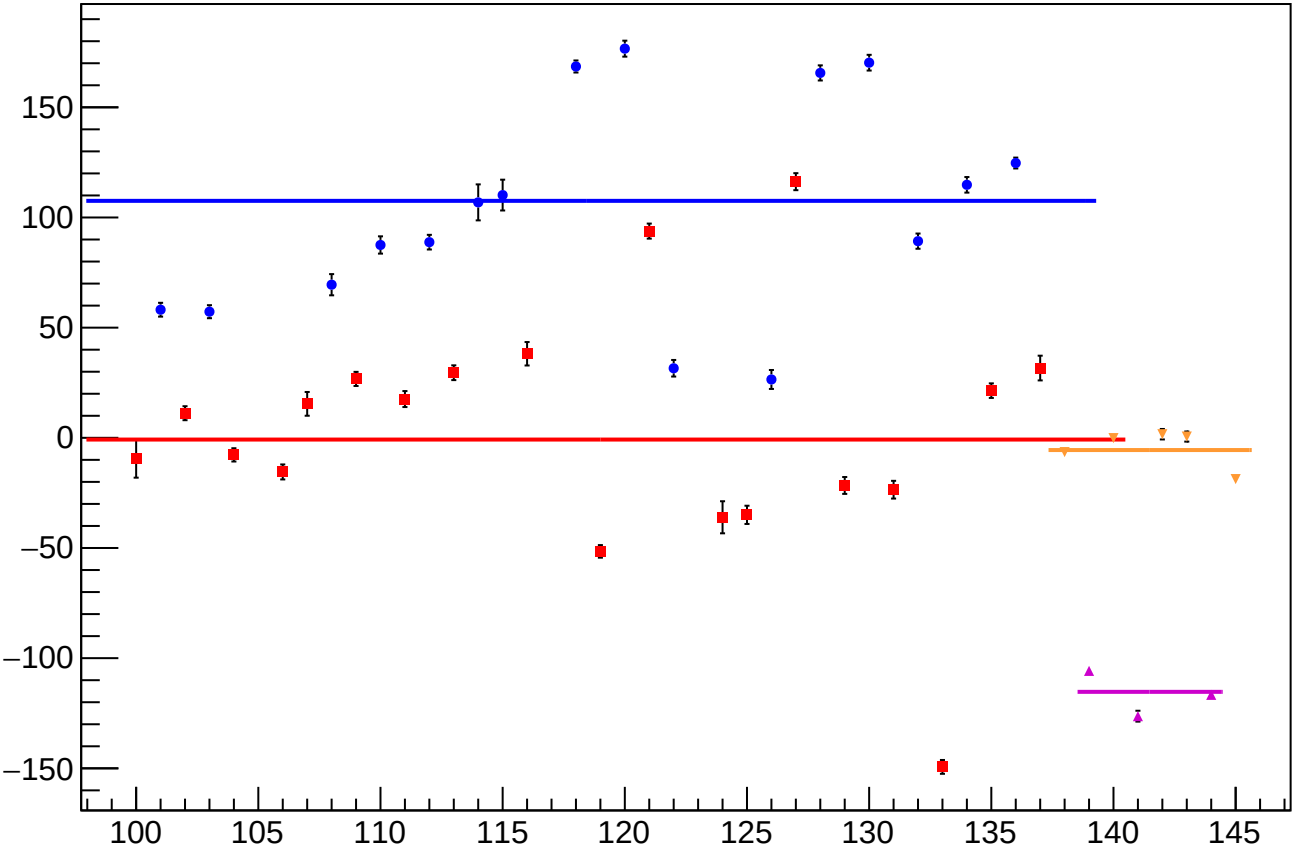
Right: 657.689+/-0.121 $\chi^2$/NDF: 57655.9/34

In: 686.972+/-0.156 $\chi^2$/NDF:258908.5/18

Out: 699.827+/-0.149 $\chi^2$/NDF:289156.0/23

All: 693.695+/-0.108 $\chi^2$/NDF: 551613.6/42

# diff_bpm1i06X_mean vs Slug, Sign Corrected




Right In: 107.548+/-0.885 $\chi^2$/NDF: 2955.8/15

Left Out: -5.549+/-0.982 $\chi^2$/NDF:67.9/4

Right Out: -0.788+/-0.861 $\chi^2$/NDF: 4763.9/18

Left In: -115.288+/-1.179 $\chi^2$/NDF:42.0/2

Left: -50.503+/-0.754 $\chi^2$/NDF: 5226.6/7

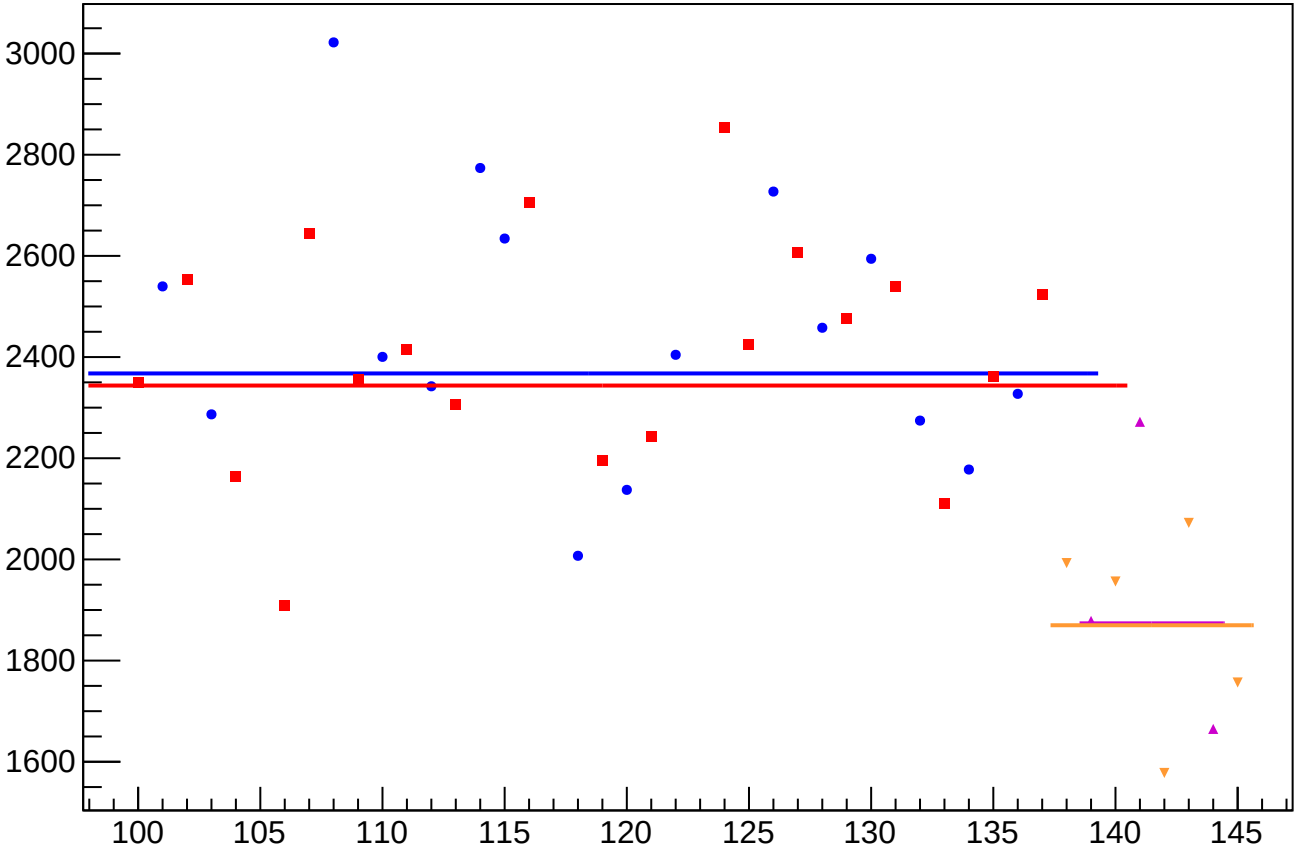
Right: 51.859+/-0.617 $\chi^2$/NDF: 15416.7/34

In: 27.179+/-0.708 $\chi^2$/NDF:25846.3/18

Out: -2.857+/-0.647 $\chi^2$/NDF:4845.1/23

All: 10.820+/-0.478 $\chi^2$/NDF: 31671.8/42

# diff_bpm1i06X_rms vs Slug, Sign Corrected




Right In: 2367.633+/-0.626 $\chi^2$/NDF: 126764.1/15

Left Out: 1869.853+/-0.694 $\chi^2$/NDF:61464.0/4

Right Out: 2343.704+/-0.609 $\chi^2$/NDF: 112274.4/18

Left In: 1873.599+/-0.834 $\chi^2$/NDF:79991.7/2

Left: 1871.388+/-0.533 $\chi^2$/NDF: 141467.6/7

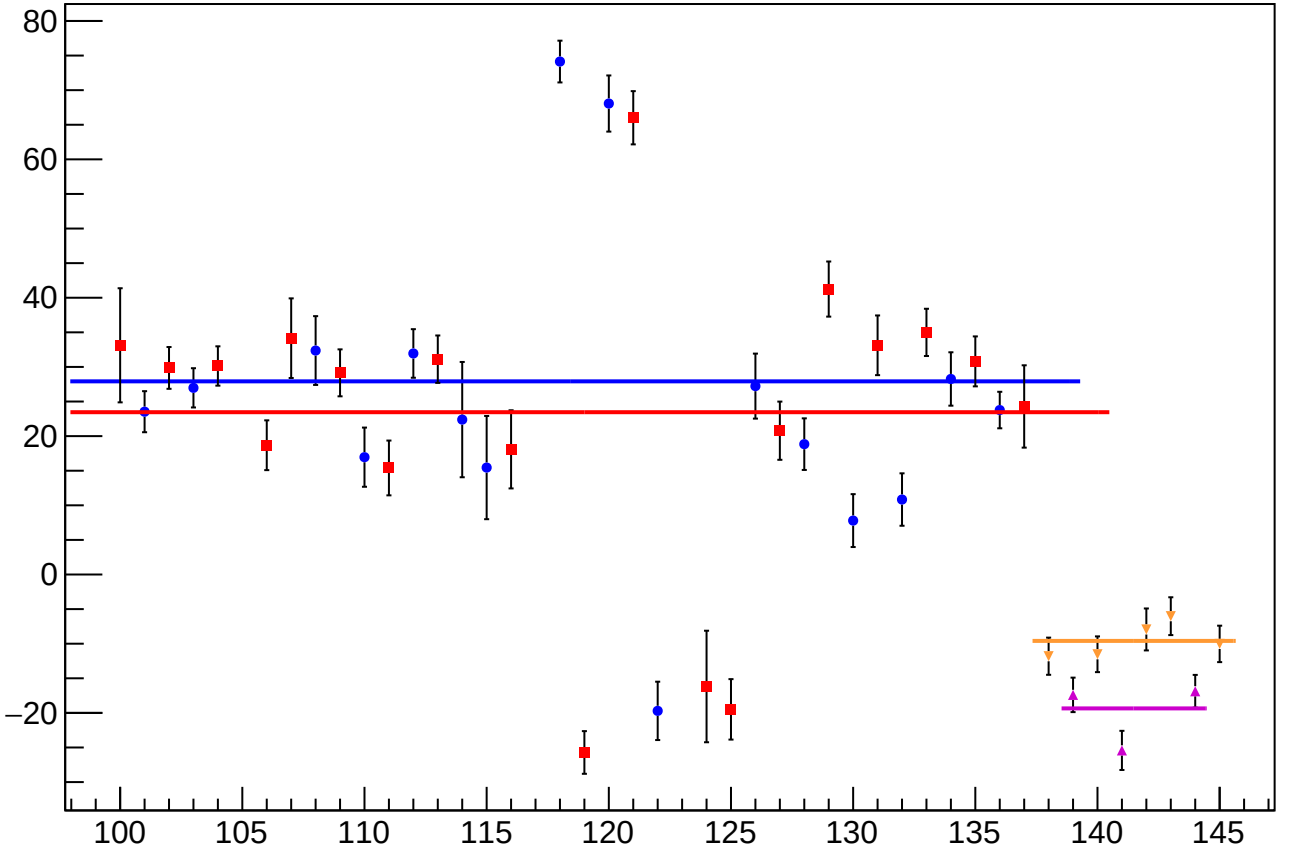
Right: 2355.333+/-0.436 $\chi^2$/NDF: 239789.5/34

In: 2189.452+/-0.501 $\chi^2$/NDF:431366.6/18

Out: 2137.782+/-0.458 $\chi^2$/NDF:437098.3/23

All: 2161.311+/-0.338 $\chi^2$/NDF: 874268.1/42

# diff_bpm1i06Y_mean vs Slug, Sign Corrected




Right In: 27.916+/-0.937 $\chi^2$/NDF: 530.7/15

Left Out: -9.596+/-1.217 $\chi^2$/NDF:3.3/4

Right Out: 23.457+/-0.903 $\chi^2$/NDF: 567.9/18

Left In: -19.352+/-1.467 $\chi^2$/NDF:6.3/2

Left: -13.574+/-0.936 $\chi^2$/NDF: 35.8/7

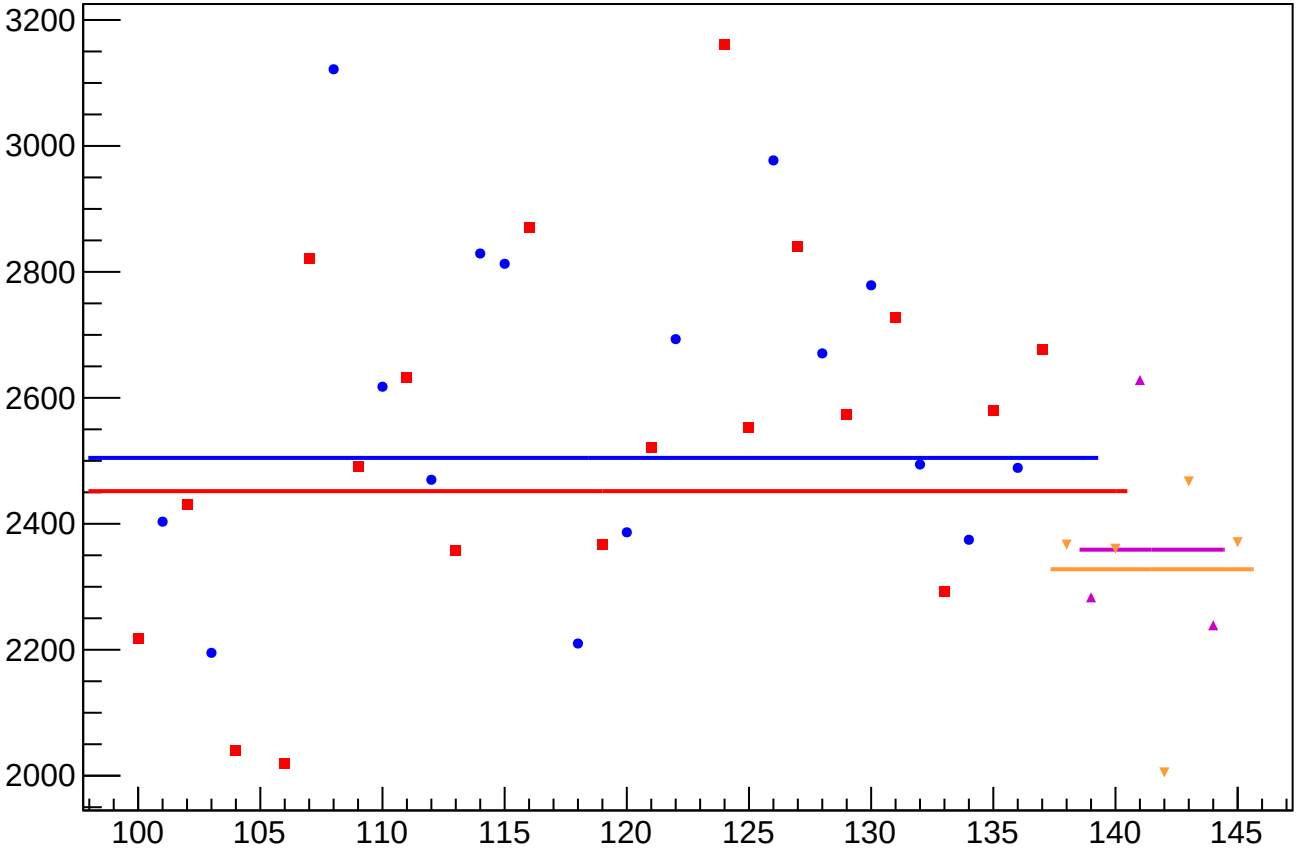
Right: 25.604+/-0.650 $\chi^2$/NDF: 1110.3/34

In: 14.220+/-0.789 $\chi^2$/NDF:1274.8/18

Out: 11.726+/-0.725 $\chi^2$/NDF:1047.1/23

All: 12.867+/-0.534 $\chi^2$/NDF: 2327.3/42

# diff_bpm1i06Y_rms vs Slug, Sign Corrected




Right In: 2504.654+/-0.662 $\chi^2$/NDF: 126599.1/15

Left Out: 2327.879+/-0.860 $\chi^2$/NDF:29139.2/4

Right Out: 2451.880+/-0.638 $\chi^2$/NDF: 153237.1/18

Left In: 2358.934+/-1.037 $\chi^2$/NDF:25126.8/2

Left: 2340.541+/-0.662 $\chi^2$/NDF: 54797.1/7

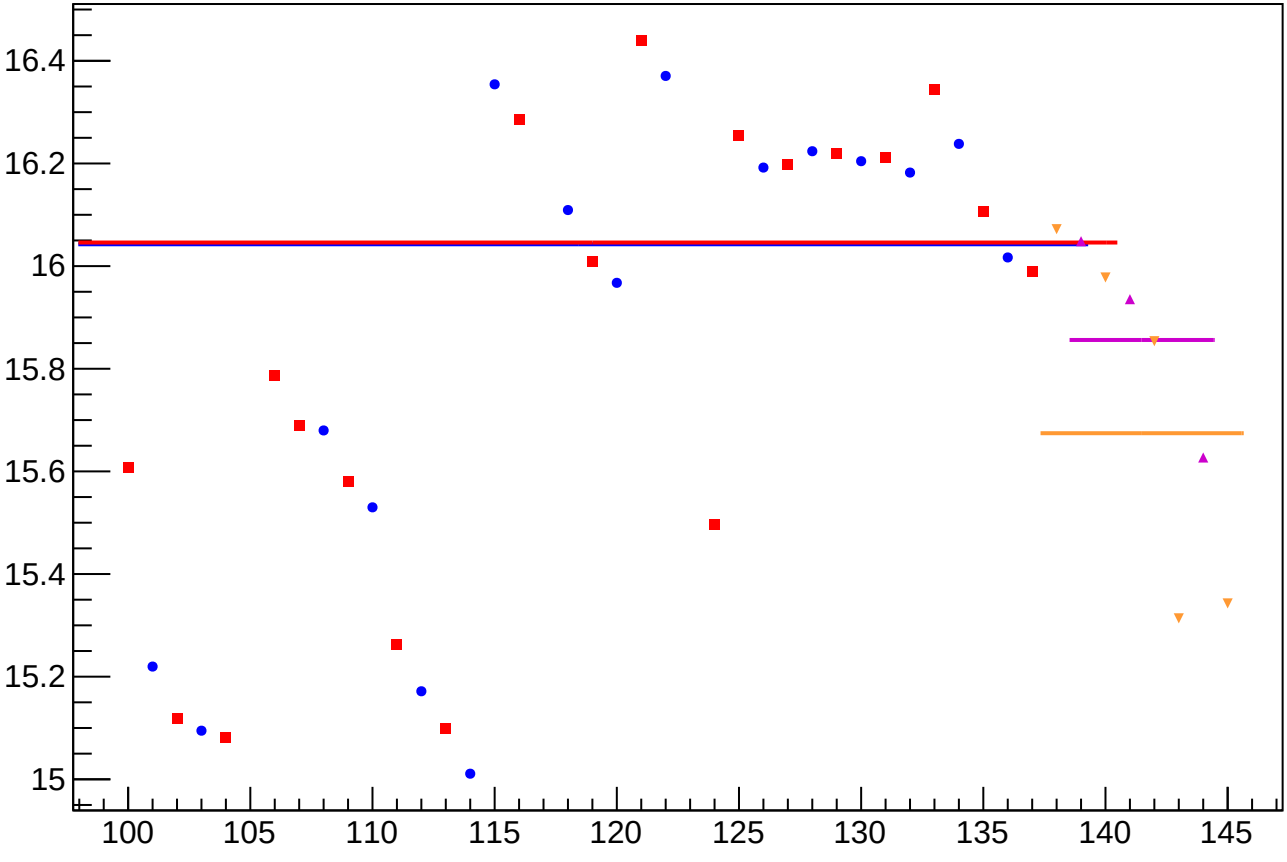
Right: 2477.287+/-0.460 $\chi^2$/NDF: 283127.8/34

In: 2462.430+/-0.558 $\chi^2$/NDF:165749.0/18

Out: 2407.868+/-0.513 $\chi^2$/NDF:195773.3/23

All: 2432.829+/-0.378 $\chi^2$/NDF: 366705.1/42

# yield_sam1_mean vs Slug, Sign Corrected




Right In: 16.043+/-0.000 $\chi^2$/NDF: 2840540588.4/15

Left Out: 15.674+/-0.000 $\chi^2$/NDF:4239495732.3/4

Right Out: 16.046+/-0.000 $\chi^2$/NDF: 3552158387.5/18

Left In: 15.856+/-0.000 $\chi^2$/NDF:762257461.9/2

Left: 15.745+/-0.000 $\chi^2$/NDF: 5493766057.1/7

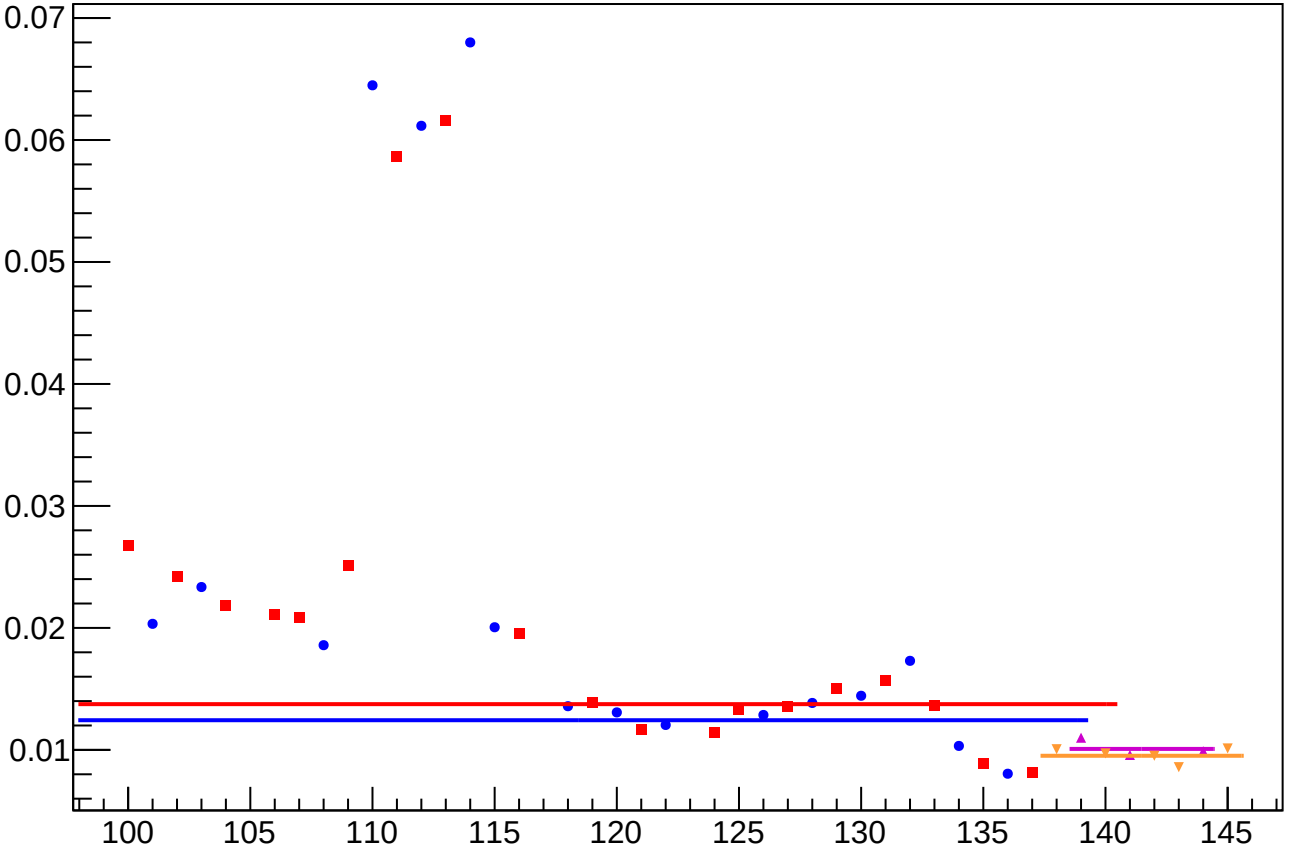
Right: 16.044+/-0.000 $\chi^2$/NDF: 6392885915.7/34

In: 15.967+/-0.000 $\chi^2$/NDF:4107075886.1/18

Out: 15.838+/-0.000 $\chi^2$/NDF:10114411894.2/23

All: 15.898+/-0.000 $\chi^2$/NDF: 14748805507.3

# 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:28612.2/4

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 2230614.9/18

Left In: 0.010+/-0.000 $\chi^2$/NDF:16291.6/2

Left: 0.010+/-0.000 $\chi^2$/NDF: 54309.9/7

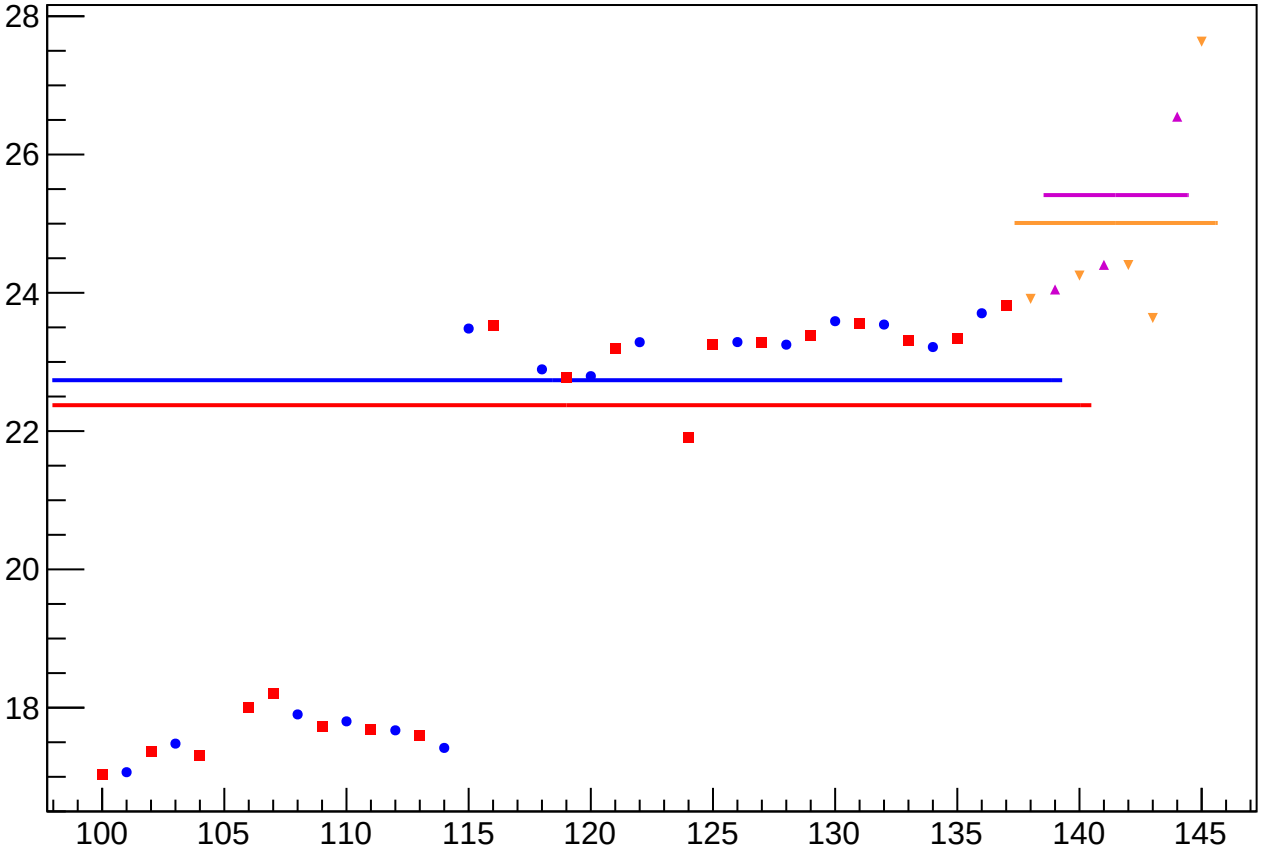
Right: 0.013+/-0.000 $\chi^2$/NDF: 4604105.9/34

In: 0.011+/-0.000 $\chi^2$/NDF:2493617.0/18

Out: 0.011+/-0.000 $\chi^2$/NDF:2861877.2/23

All: 0.011+/-0.000 $\chi^2$/NDF: 5356023.2/42

# yield_sam2_mean vs Slug, Sign Corrected




Right In: 22.736+/-0.000 $\chi^2$/NDF: 1220713728.0/15

Left Out: 25.010+/-0.000 $\chi^2$/NDF:757974504.2/4

Right Out: 22.375+/-0.000 $\chi^2$/NDF: 1215661430.7/18

Left In: 25.413+/-0.000 $\chi^2$/NDF:220300037.7/2

Left: 25.165+/-0.000 $\chi^2$/NDF: 995781643.7/7

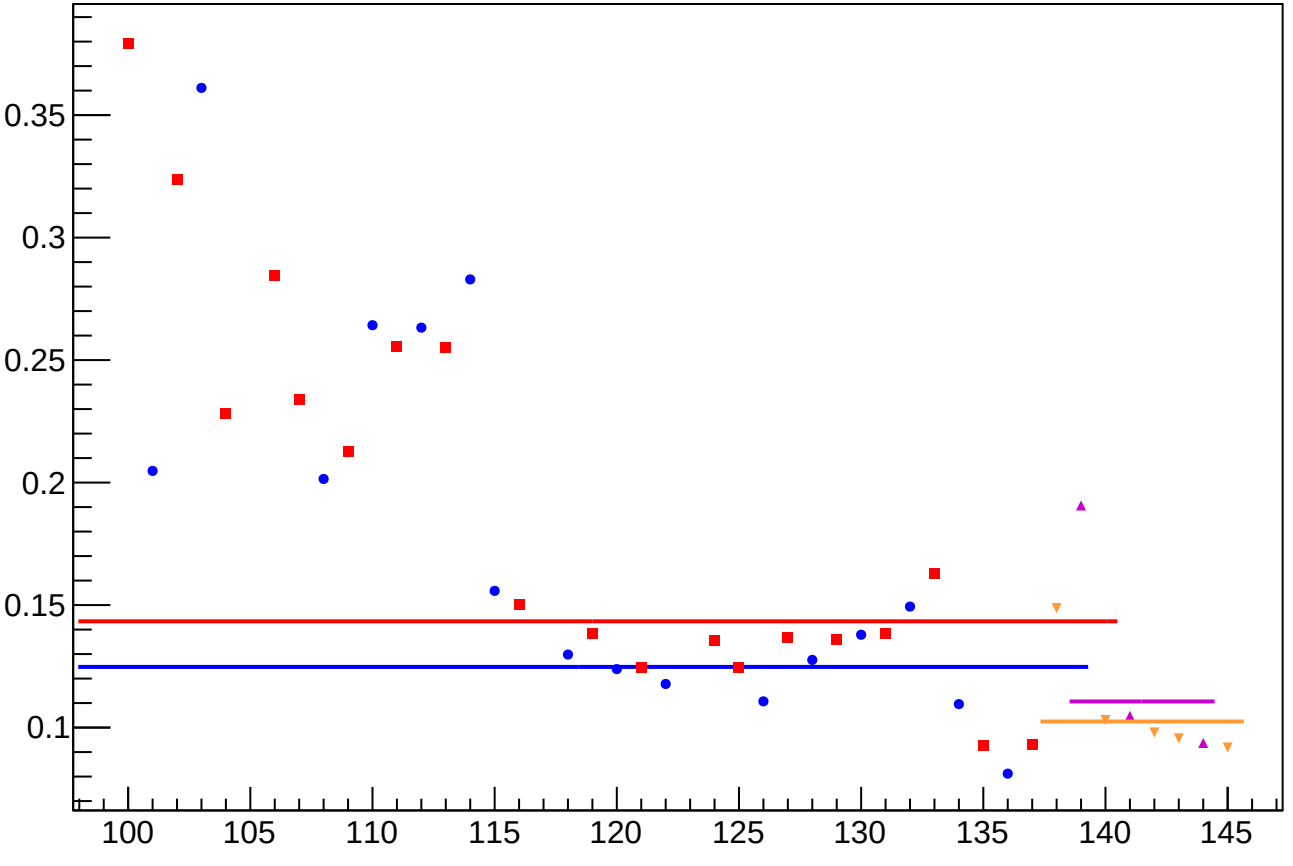
Right: 22.574+/-0.000 $\chi^2$/NDF: 2456494994.8/34

In: 23.638+/-0.000 $\chi^2$/NDF:2270885518.1/18

Out: 23.695+/-0.000 $\chi^2$/NDF:2946053045.7/23

All: 23.668+/-0.000 $\chi^2$/NDF: 5217798687.2/4

# yield_sam2_rms vs Slug, Sign Corrected




Right In: 0.125+/-0.000 $\chi^2$/NDF: 1749818.7/15

Left Out: 0.102+/-0.000 $\chi^2$/NDF:160259.3/4

Right Out: 0.143+/-0.000 $\chi^2$/NDF: 1570103.9/18

Left In: 0.111+/-0.000 $\chi^2$/NDF:348849.6/2

Left: 0.106+/-0.000 $\chi^2$/NDF: 523515.4/7

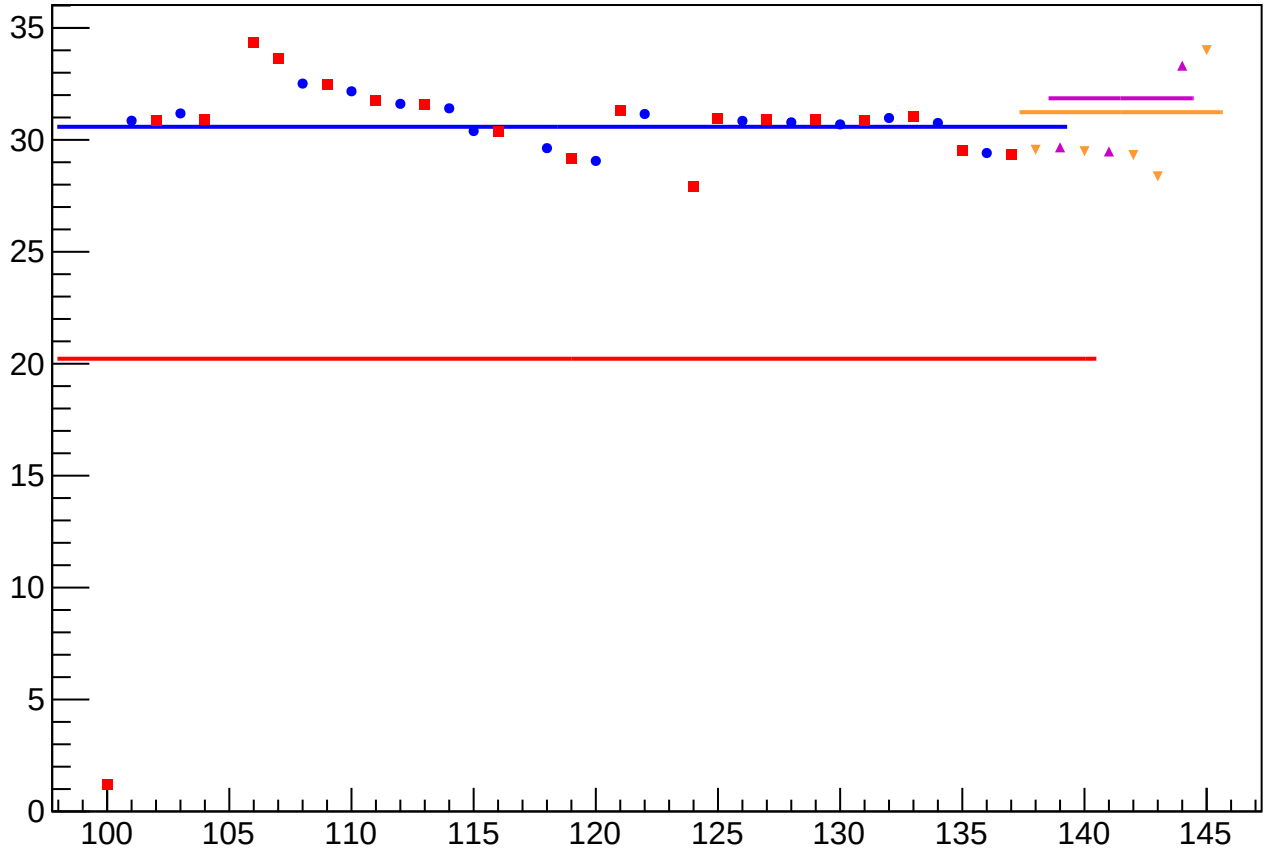
Right: 0.133+/-0.000 $\chi^2$/NDF: 3426627.7/34

In: 0.120+/-0.000 $\chi^2$/NDF:2144742.7/18

Out: 0.123+/-0.000 $\chi^2$/NDF:2198644.8/23

All: 0.122+/-0.000 $\chi^2$/NDF: 4347838.0/42

# yield_sam3_mean vs Slug, Sign Corrected




Right In: 30.585+/-0.000 $\chi^2$/NDF: 652266844.4/15

Left Out: 31.236+/-0.000 $\chi^2$/NDF:3933332899.9/4

Right Out: 20.224+/-0.000 $\chi^2$/NDF: 221262816636.2/18

Left In: 31.857+/-0.000 $\chi^2$/NDF:1550518995.8/2

Left: 31.494+/-0.000 $\chi^2$/NDF: 5586285946.2/7

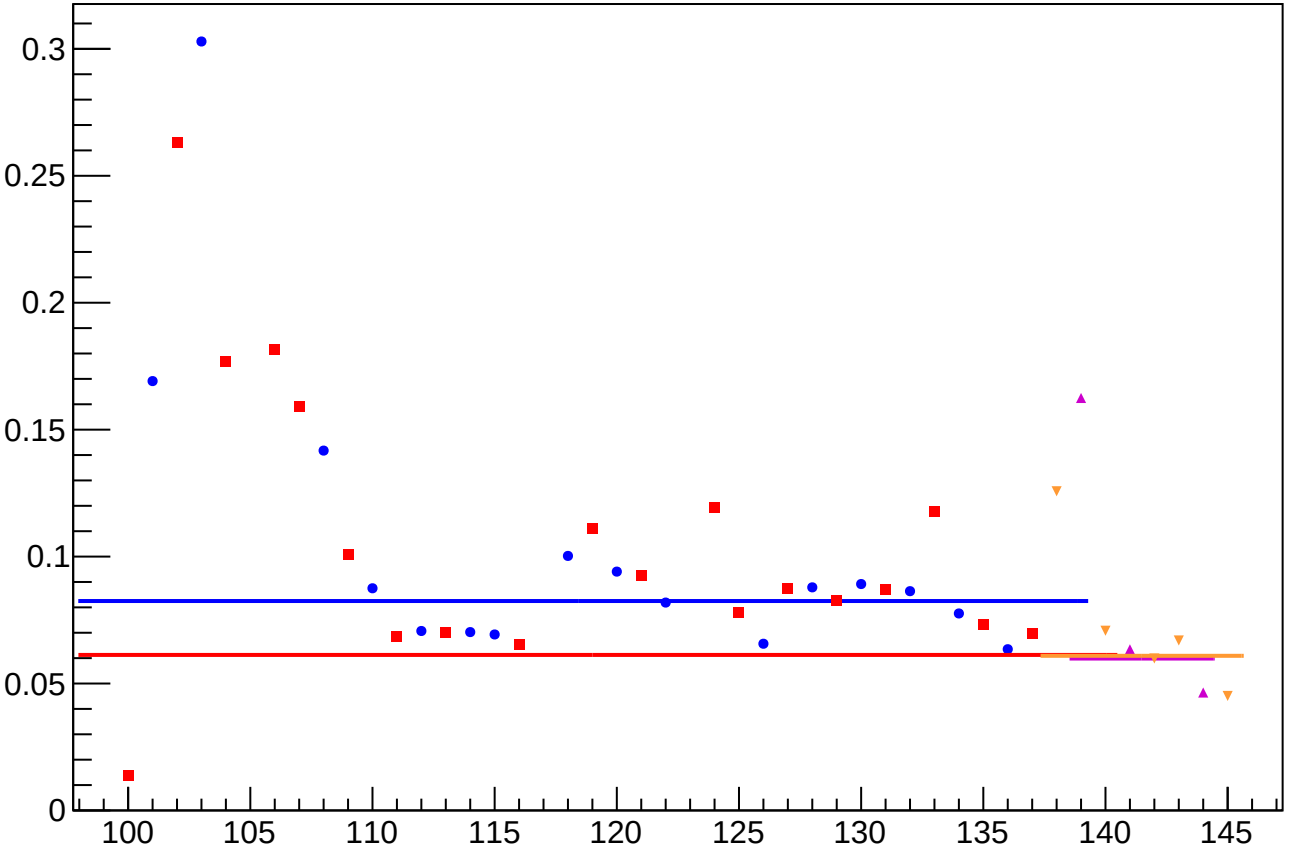
Right: 24.530+/-0.000 $\chi^2$/NDF: 270460315915.7/34

In: 31.055+/-0.000 $\chi^2$/NDF:2666463495.9/18

Out: 24.297+/-0.000 $\chi^2$/NDF:274002302164.3/23

All: 27.106+/-0.000 $\chi^2$/NDF: 309449909544.

# yield_sam3_rms vs Slug, Sign Corrected




Right In: 0.082+/-0.000 $\chi^2$/NDF: 1261492.7/15

Left Out: 0.061+/-0.000 $\chi^2$/NDF:516737.7/4

Right Out: 0.061+/-0.000 $\chi^2$/NDF: 4014305.3/18

Left In: 0.060+/-0.000 $\chi^2$/NDF:766329.2/2

Left: 0.060+/-0.000 $\chi^2$/NDF: 1283687.6/7

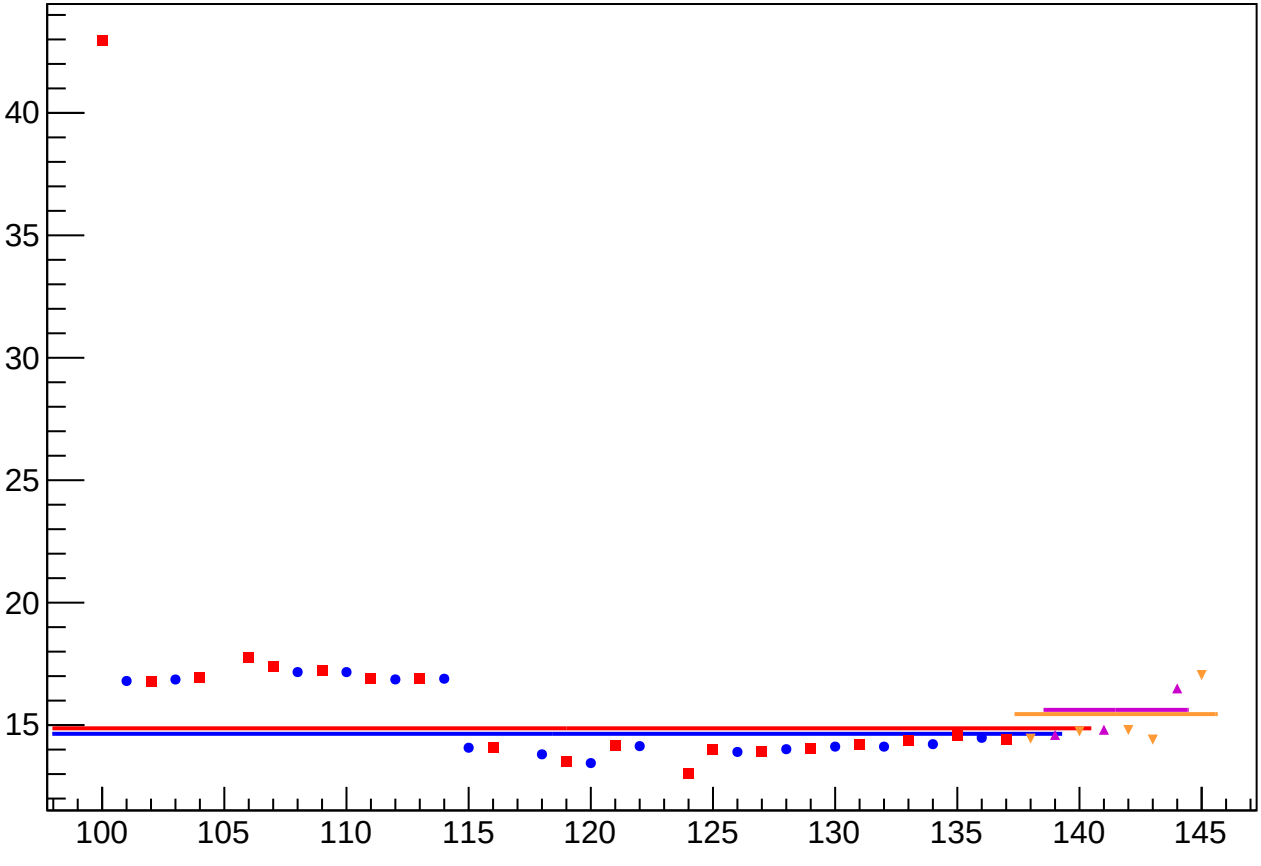
Right: 0.070+/-0.000 $\chi^2$/NDF: 5683622.8/34

In: 0.074+/-0.000 $\chi^2$/NDF:2321841.0/18

Out: 0.061+/-0.000 $\chi^2$/NDF:4531139.6/23

All: 0.067+/-0.000 $\chi^2$/NDF: 7094820.1/42

# yield_sam4_mean vs Slug, Sign Corrected




Right In: 14.644+/-0.000 $\chi^2$/NDF: 1193913109.5/15

Left Out: 15.448+/-0.000 $\chi^2$/NDF:888663647.3/4

Right Out: 14.868+/-0.000 $\chi^2$/NDF: 1730040006.8/18

Left In: 15.622+/-0.000 $\chi^2$/NDF:321793108.6/2

Left: 15.517+/-0.000 $\chi^2$/NDF: 1218157000.6/7

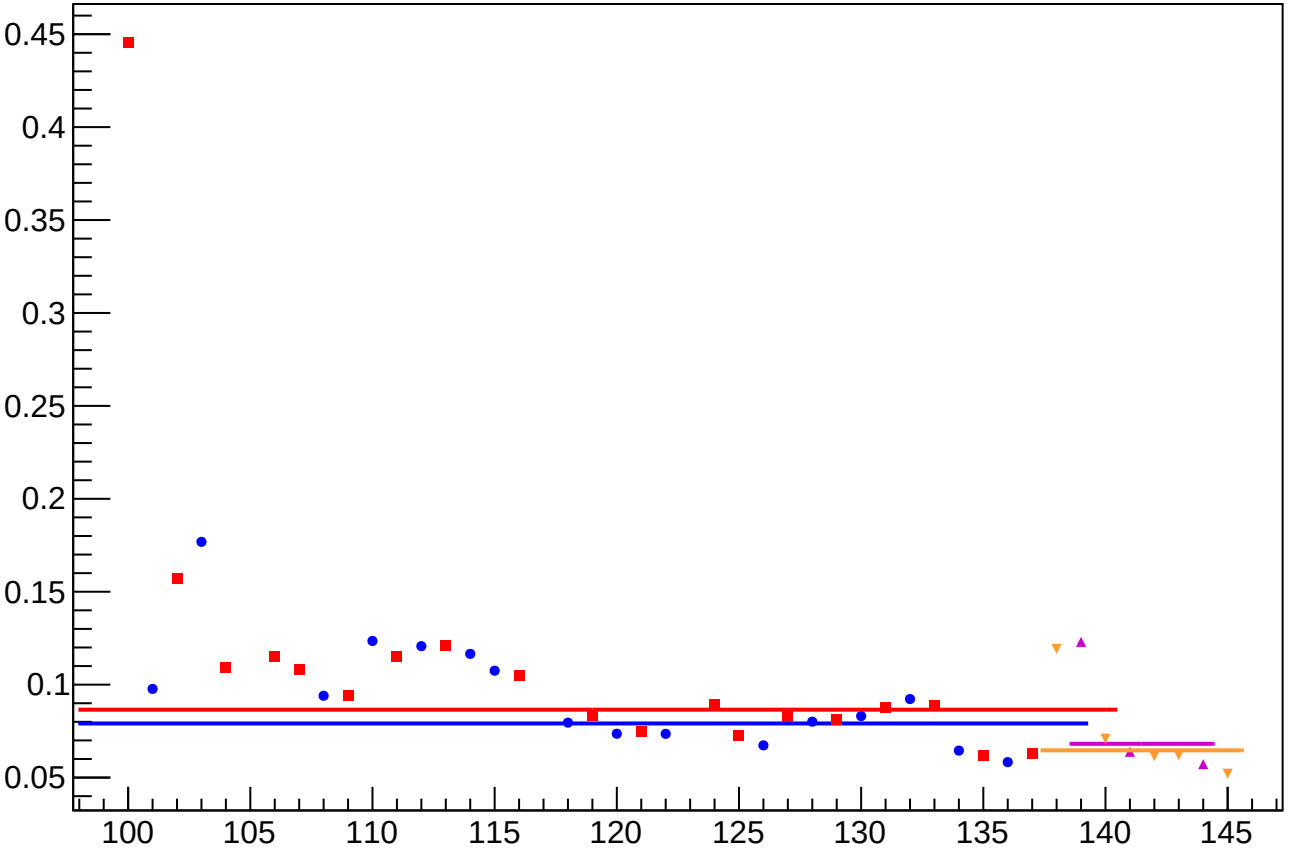
Right: 14.749+/-0.000 $\chi^2$/NDF: 2945878863.1/34

In: 14.947+/-0.000 $\chi^2$/NDF:1793830928.3/18

Out: 15.122+/-0.000 $\chi^2$/NDF:2739747537.7/23

All: 15.038+/-0.000 $\chi^2$/NDF: 4555165214.7/4

# 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:383397.7/4

Right Out: 0.087+/-0.000 $\chi^2$/NDF: 793345.8/18

Left In: 0.068+/-0.000 $\chi^2$/NDF:381587.6/2

Left: 0.066+/-0.000 $\chi^2$/NDF: 771303.6/7

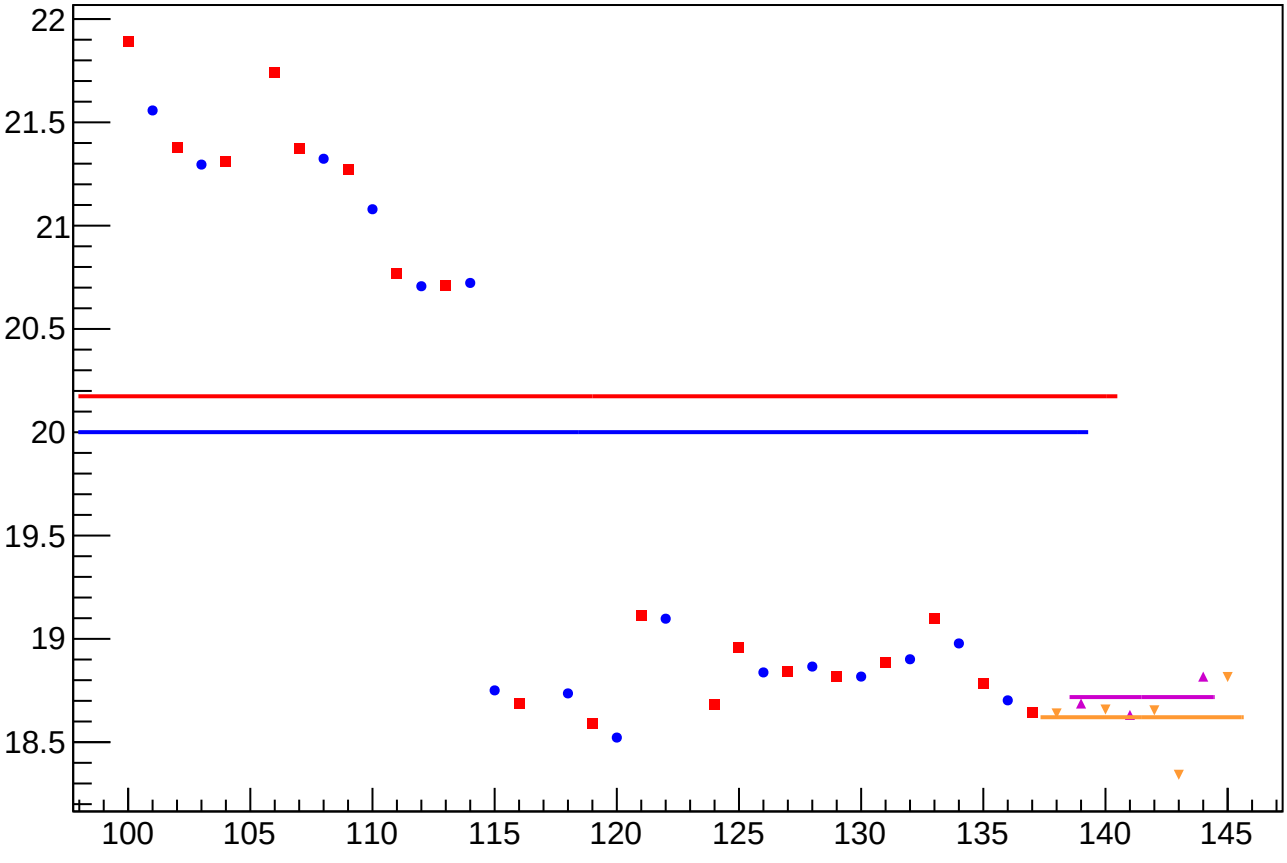
Right: 0.083+/-0.000 $\chi^2$/NDF: 1759748.9/34

In: 0.076+/-0.000 $\chi^2$/NDF:1369389.6/18

Out: 0.077+/-0.000 $\chi^2$/NDF:1521277.2/23

All: 0.076+/-0.000 $\chi^2$/NDF: 2892751.5/42

# yield_sam5_mean vs Slug, Sign Corrected




Right In: 20.001+/-0.000 $\chi^2$/NDF: 10878846617.7/15

Left Out: 18.621+/-0.000 $\chi^2$/NDF:103896077.7/4

Right Out: 20.174+/-0.000 $\chi^2$/NDF: 10426322430.8/18

Left In: 18.718+/-0.000 $\chi^2$/NDF:15923622.6/2

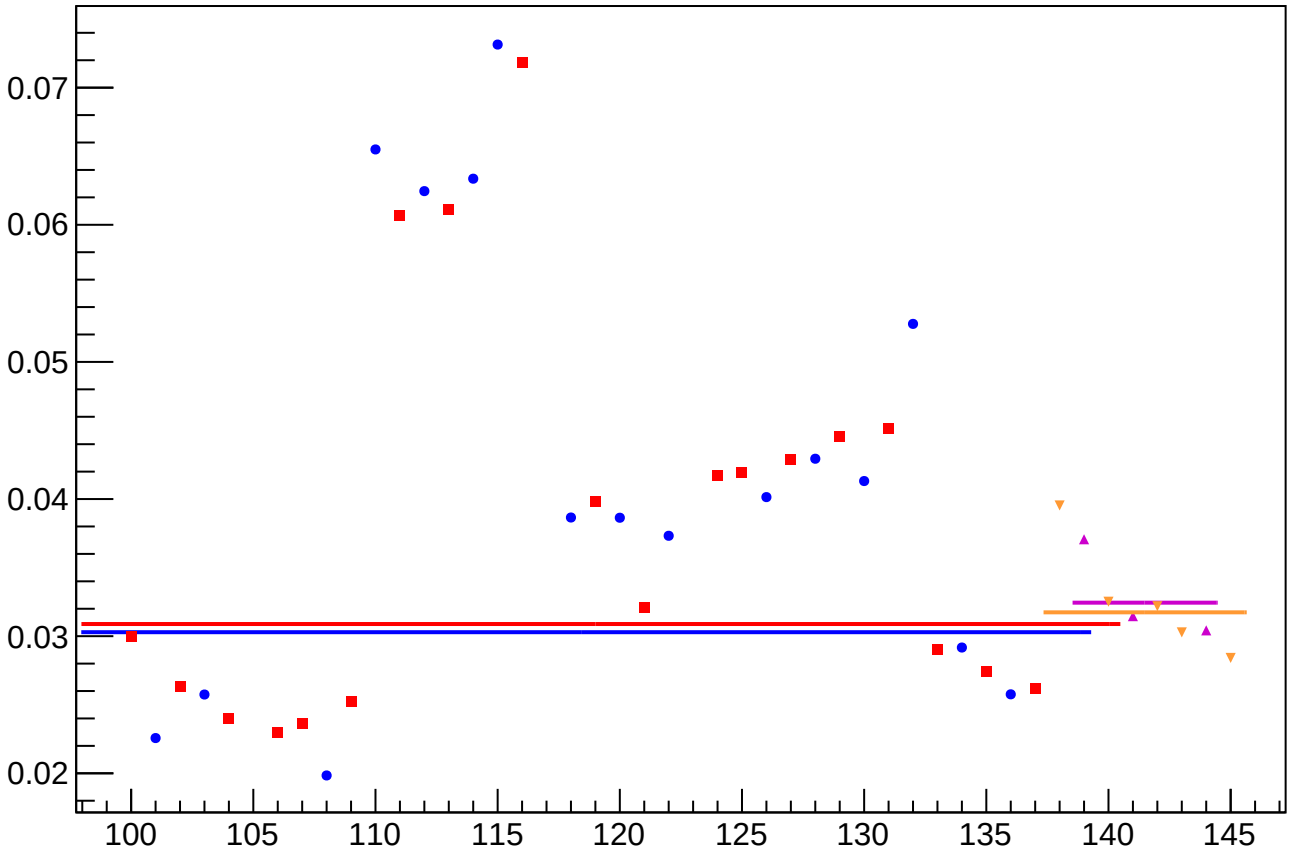
Left: 18.660+/-0.000 $\chi^2$/NDF: 133077079.1/7

Right: 20.087+/-0.000 $\chi^2$/NDF: 21403297693.7/34

In: 19.660+/-0.000 $\chi^2$/NDF:13732377654.2/18

Out: 19.639+/-0.000 $\chi^2$/NDF:15953103294.0/23

All: 19.649+/-0.000 $\chi^2$/NDF: 29687611035.0




Right In: 0.030+/-0.000 $\chi^2$/NDF: 1447374.9/15

Left Out: 0.032+/-0.000 $\chi^2$/NDF:83293.6/4

Right Out: 0.031+/-0.000 $\chi^2$/NDF: 1204729.6/18

Left In: 0.032+/-0.000 $\chi^2$/NDF:34046.1/2

Left: 0.032+/-0.000 $\chi^2$/NDF: 118725.0/7

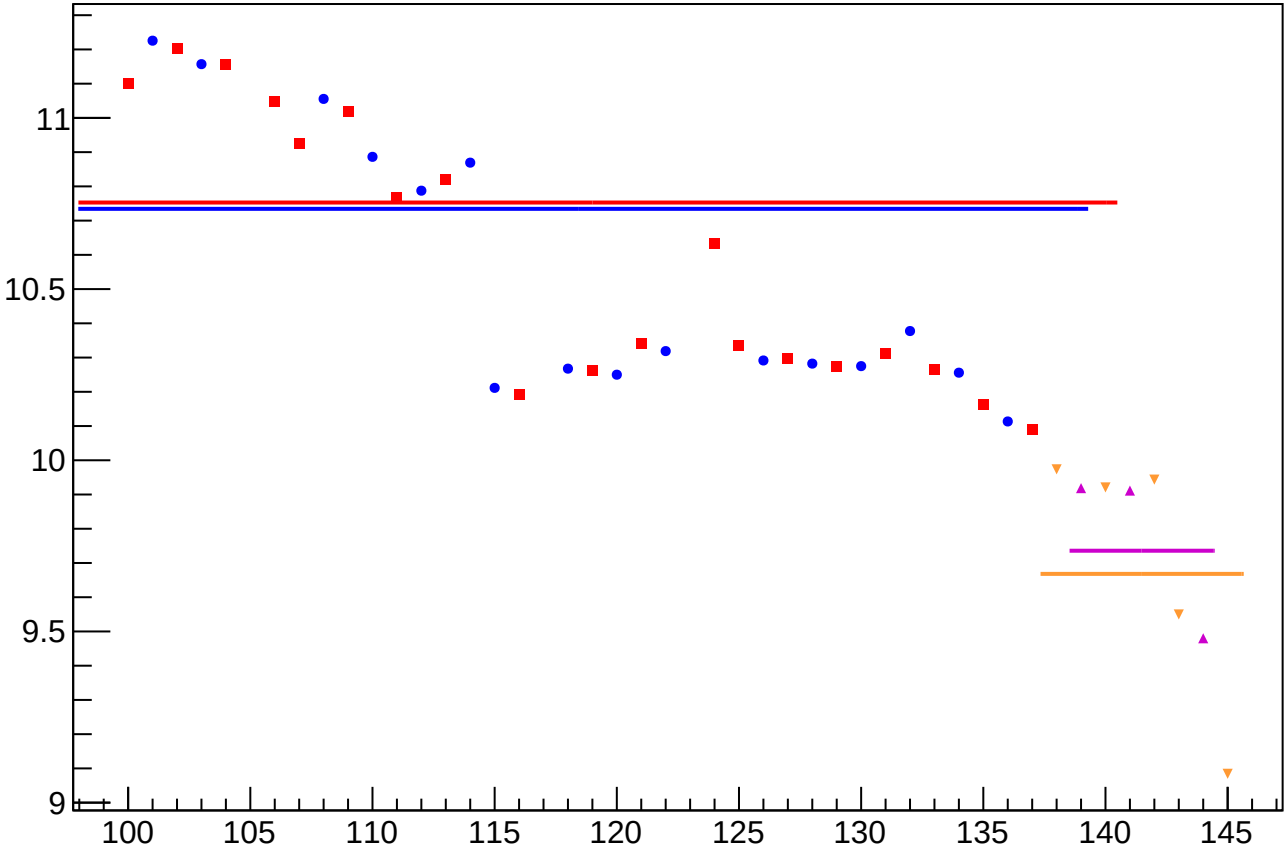
Right: 0.031+/-0.000 $\chi^2$/NDF: 2654419.8/34

In: 0.031+/-0.000 $\chi^2$/NDF:1497425.6/18

Out: 0.031+/-0.000 $\chi^2$/NDF:1291286.8/23

All: 0.031+/-0.000 $\chi^2$/NDF: 2789661.6/42

# yield_sam6_mean vs Slug, Sign Corrected




Right In: 10.734+/-0.000 $\chi^2$/NDF: 5879444478.4/15

Left Out: 9.668+/-0.000 $\chi^2$/NDF:1050381888.9/4

Right Out: 10.753+/-0.000 $\chi^2$/NDF: 4344265704.2/18

Left In: 9.736+/-0.000 $\chi^2$/NDF:276919218.1/2

Left: 9.694+/-0.000 $\chi^2$/NDF: 1344326352.4/7

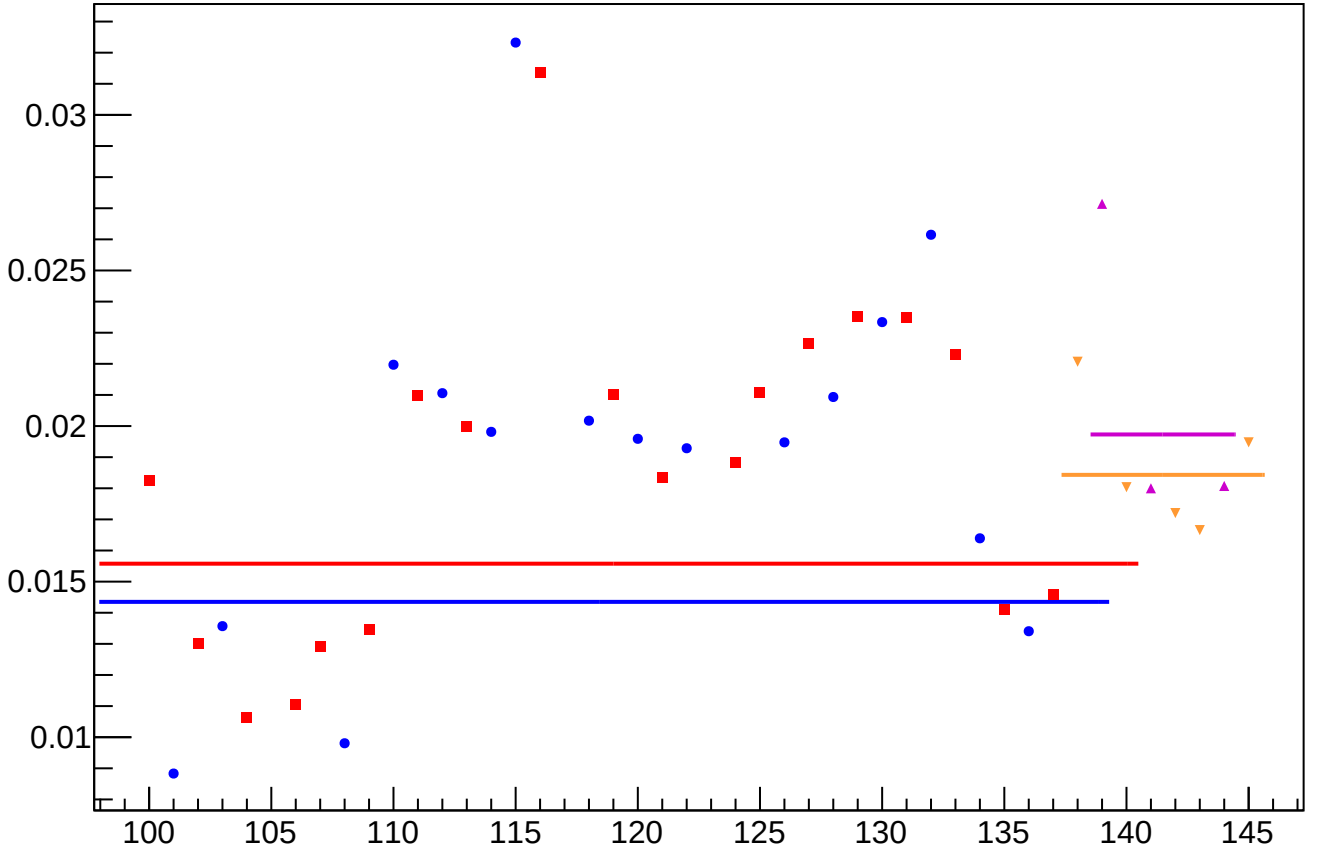
Right: 10.743+/-0.000 $\chi^2$/NDF: 10228218714.9/34

In: 10.554+/-0.000 $\chi^2$/NDF:11129098891.7/18

Out: 10.457+/-0.000 $\chi^2$/NDF:13579762250.8/23

All: 10.505+/-0.000 $\chi^2$/NDF: 24870756822.9

# yield_sam6_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1481790.8/15

Left Out: 0.018+/-0.000 $\chi^2$/NDF:64162.7/4

Right Out: 0.016+/-0.000 $\chi^2$/NDF: 1071979.1/18

Left In: 0.020+/-0.000 $\chi^2$/NDF:152684.2/2

Left: 0.019+/-0.000 $\chi^2$/NDF: 229389.0/7

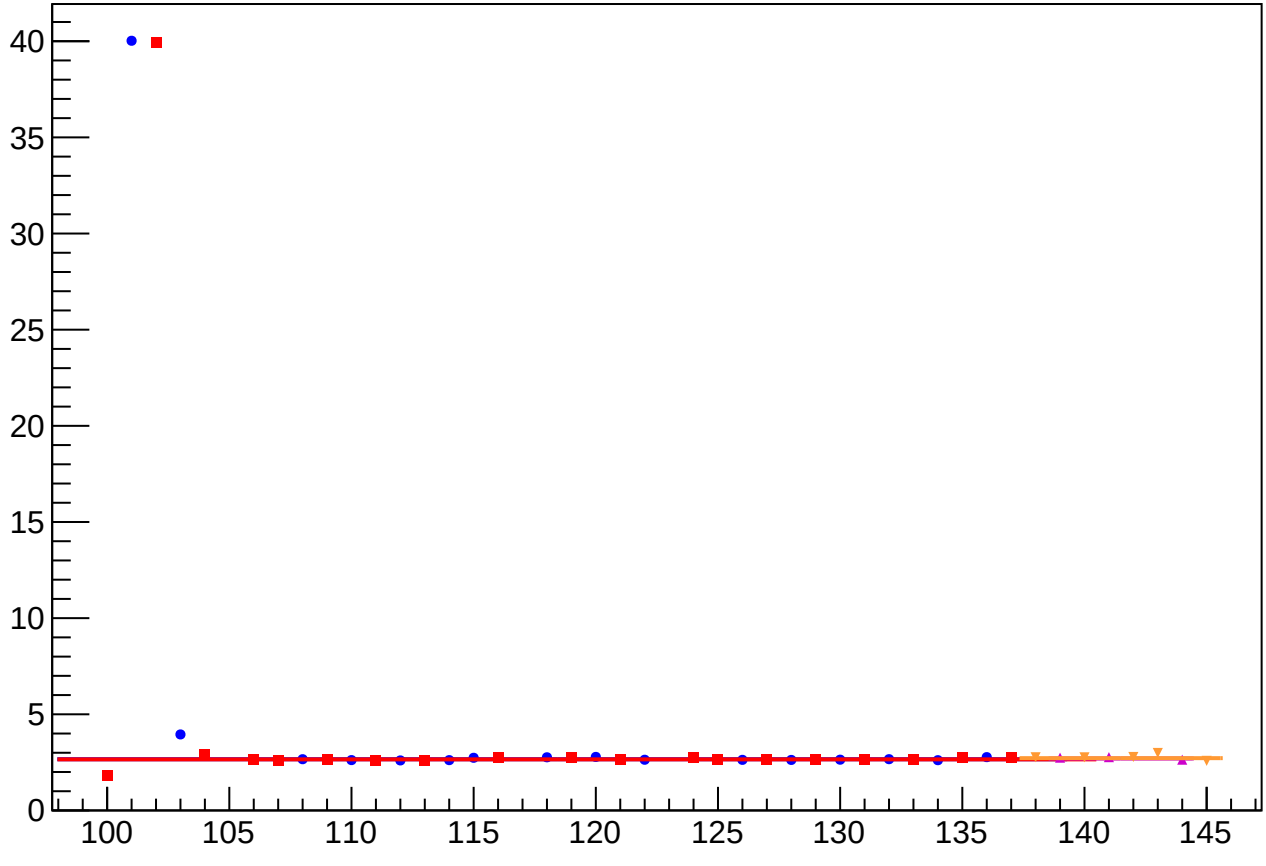
Right: 0.015+/-0.000 $\chi^2$/NDF: 2593711.2/34

In: 0.015+/-0.000 $\chi^2$/NDF:1923200.1/18

Out: 0.016+/-0.000 $\chi^2$/NDF:1249531.9/23

All: 0.016+/-0.000 $\chi^2$/NDF: 3209494.6/42

# yield_sam7_mean vs Slug, Sign Corrected




Right In: 2.664+/-0.000 $\chi^2$/NDF: 67839888284.3/15

Left Out: 2.719+/-0.000 $\chi^2$/NDF:13613277704.8/4

Right Out: 2.656+/-0.000 $\chi^2$/NDF: 65056887880.1/18

Left In: 2.699+/-0.000 $\chi^2$/NDF:1772920515.2/2

Left: 2.711+/-0.000 $\chi^2$/NDF: 15494945063.1/7

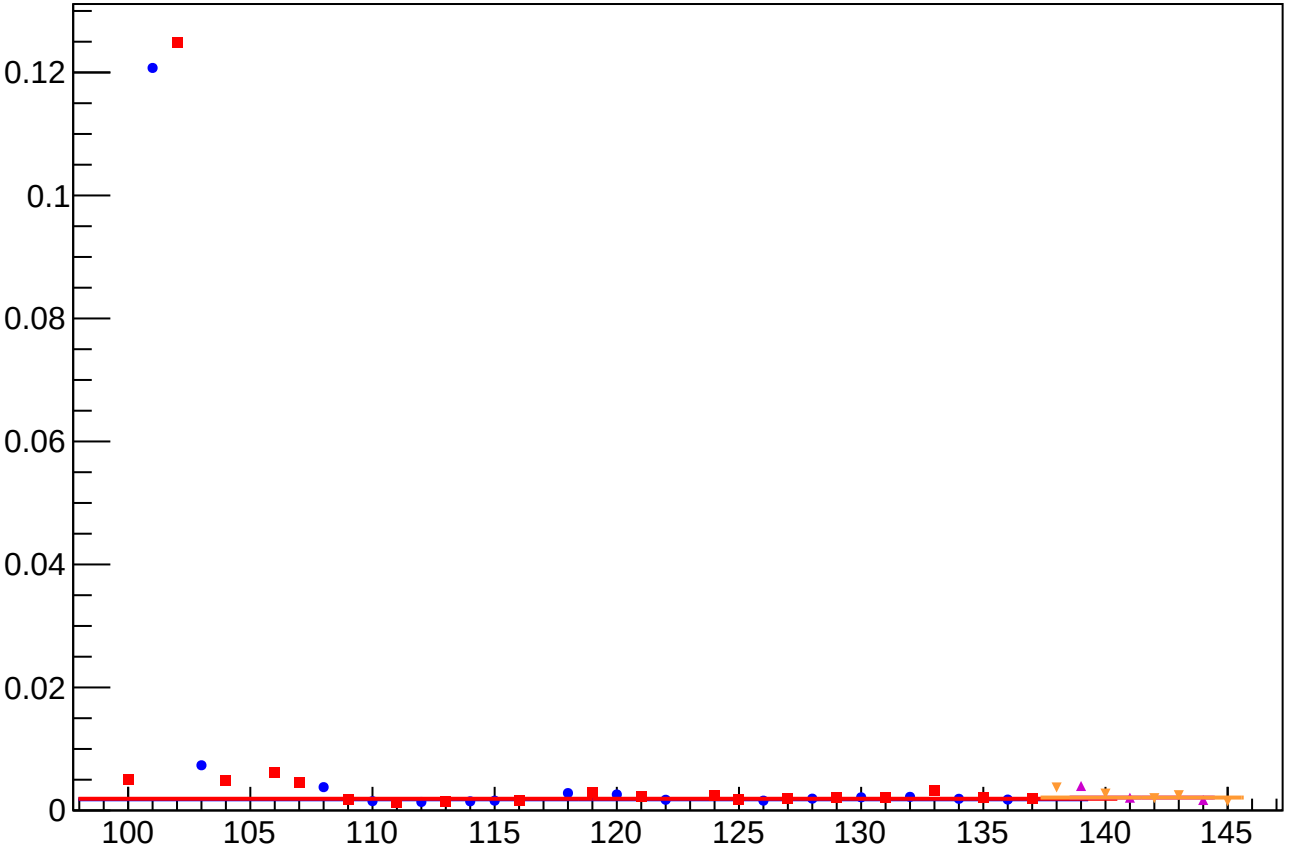
Right: 2.660+/-0.000 $\chi^2$/NDF: 132934575870.3/34

In: 2.672+/-0.000 $\chi^2$/NDF:70035235253.9/18

Out: 2.675+/-0.000 $\chi^2$/NDF:80348521736.0/23

All: 2.674+/-0.000 $\chi^2$/NDF: 150394818994.9

# 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:580783.1/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2525514.7/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:432704.5/2

Left: 0.002+/-0.000 $\chi^2$/NDF: 1013507.8/7

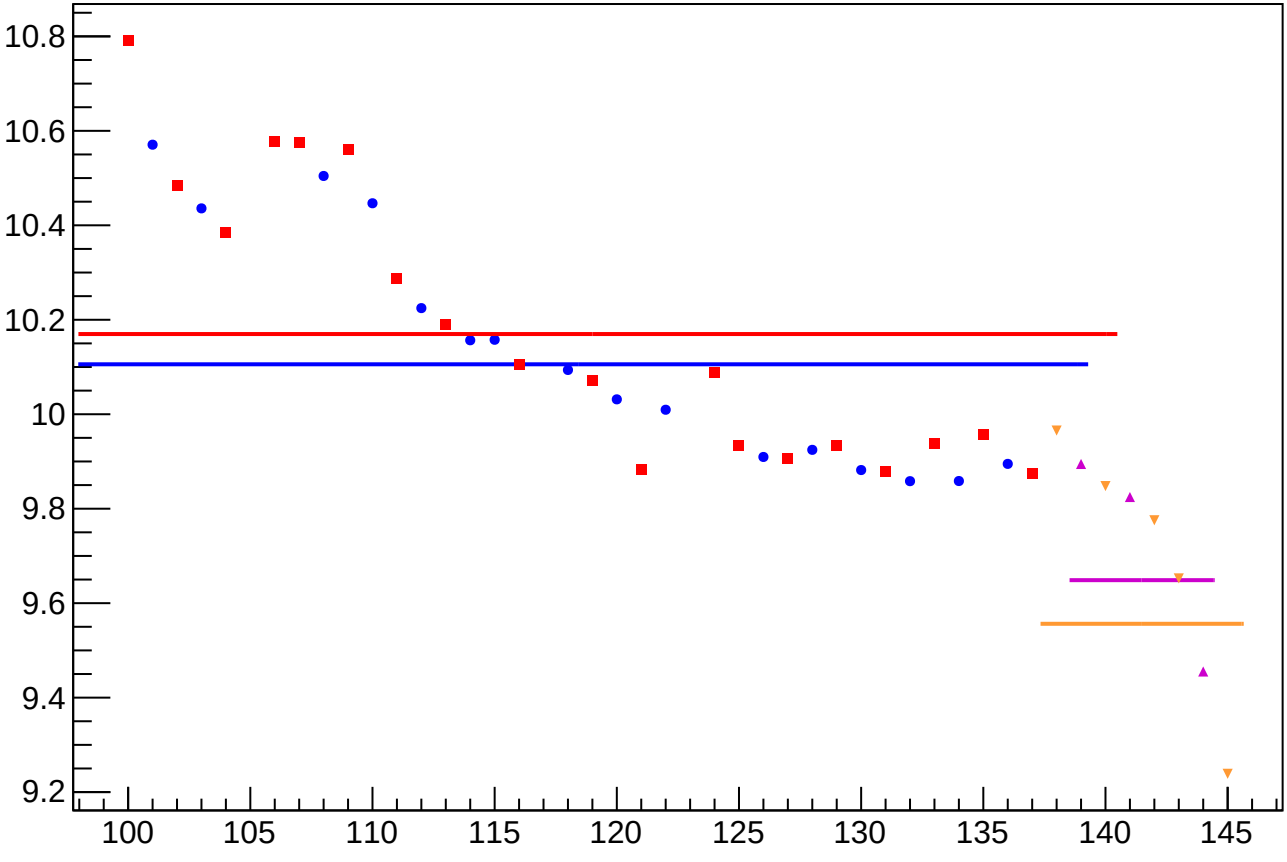
Right: 0.002+/-0.000 $\chi^2$/NDF: 4358433.6/34

In: 0.002+/-0.000 $\chi^2$/NDF:2307551.0/18

Out: 0.002+/-0.000 $\chi^2$/NDF:3139359.5/23

All: 0.002+/-0.000 $\chi^2$/NDF: 5459065.4/42

# yield_sam8_mean vs Slug, Sign Corrected




Right In: 10.106+/-0.000 $\chi^2$/NDF: 9126550621.3/15

Left Out: 9.556+/-0.000 $\chi^2$/NDF:5133680157.0/4

Right Out: 10.170+/-0.000 $\chi^2$/NDF: 9135610954.1/18

Left In: 9.649+/-0.000 $\chi^2$/NDF:1859613399.9/2

Left: 9.593+/-0.000 $\chi^2$/NDF: 7250637405.0/7

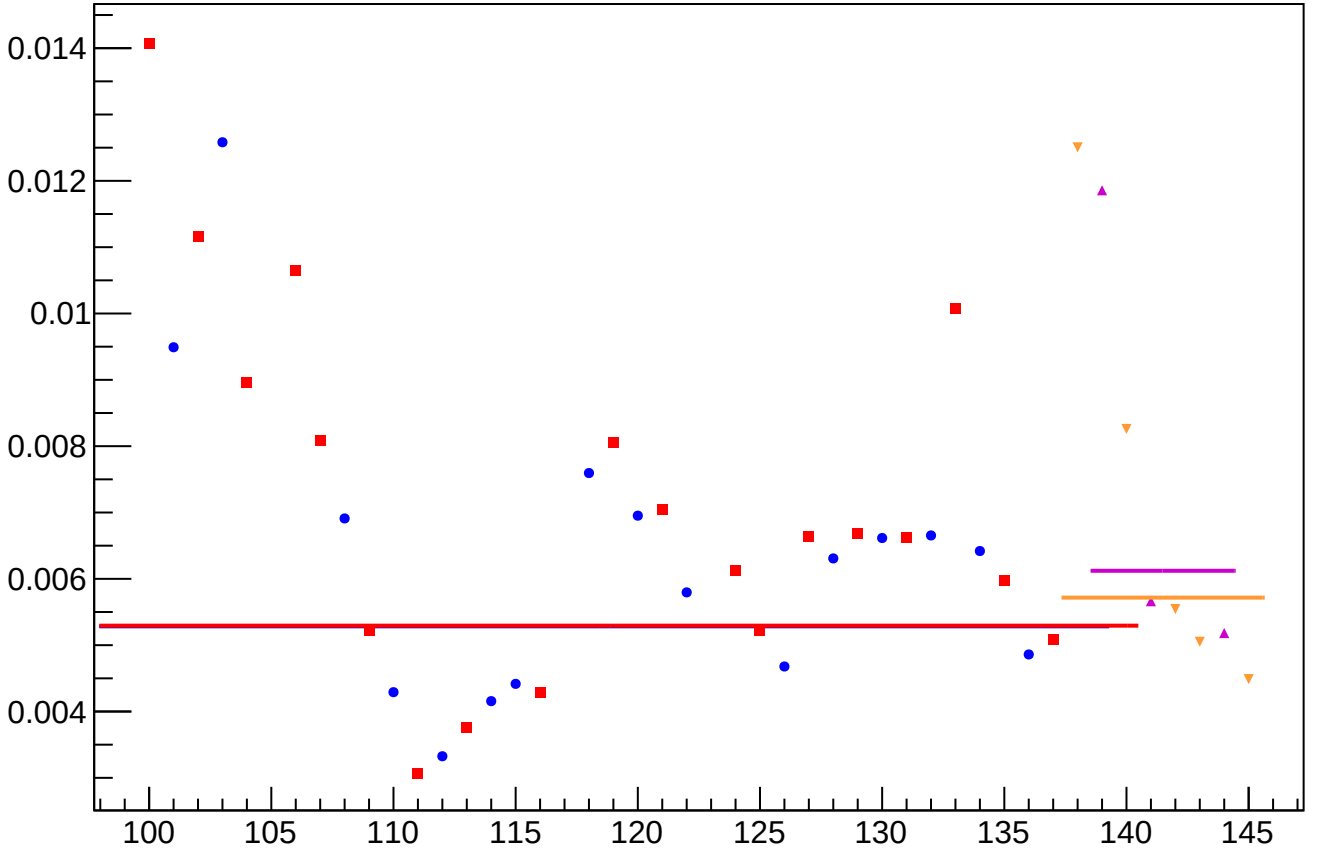
Right: 10.138+/-0.000 $\chi^2$/NDF: 18662438112.6/34

In: 10.012+/-0.000 $\chi^2$/NDF:19229790901.3/18

Out: 9.997+/-0.000 $\chi^2$/NDF:35090470914.0/23

All: 10.004+/-0.000 $\chi^2$/NDF: 54349635569.7

# 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:635863.0/4

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 1792250.8/18

Left In: 0.006+/-0.000 $\chi^2$/NDF:419075.3/2

Left: 0.006+/-0.000 $\chi^2$/NDF: 1064812.7/7

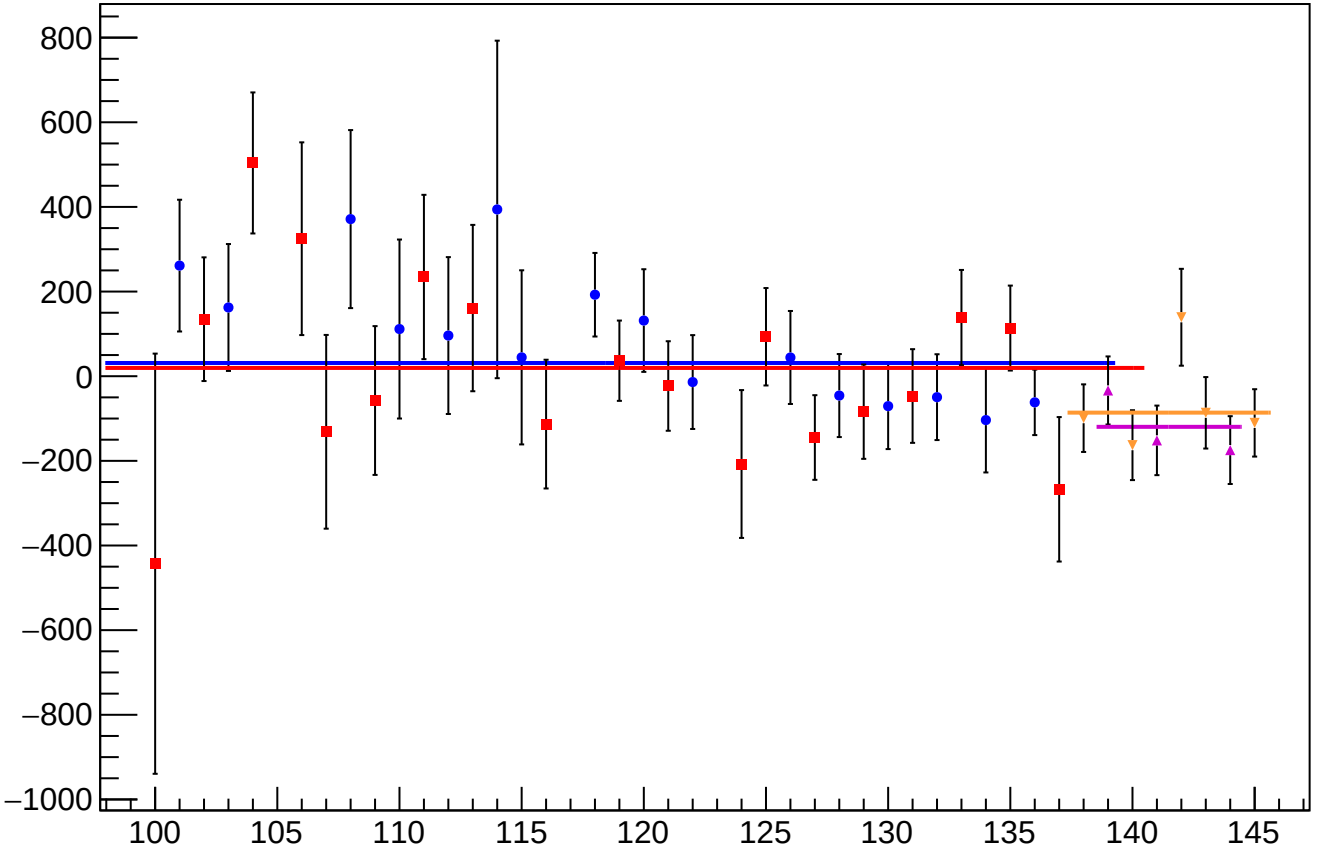
Right: 0.005+/-0.000 $\chi^2$/NDF: 3066401.4/34

In: 0.005+/-0.000 $\chi^2$/NDF:1748510.0/18

Out: 0.005+/-0.000 $\chi^2$/NDF:2447901.9/23

All: 0.005+/-0.000 $\chi^2$/NDF: 4196875.5/42

# reg_asym_sam1_mean vs Slug, Sign Corrected




Right In: 31.249+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -86.056+/-38.405 $\chi^2$/NDF:4.9/4

Right Out: 19.573+/-31.059 $\chi^2$/NDF: 25.9/18

Left In: -119.616+/-46.702 $\chi^2$/NDF:1.8/2

Left: -99.595+/-29.663 $\chi^2$/NDF: 6.9/7

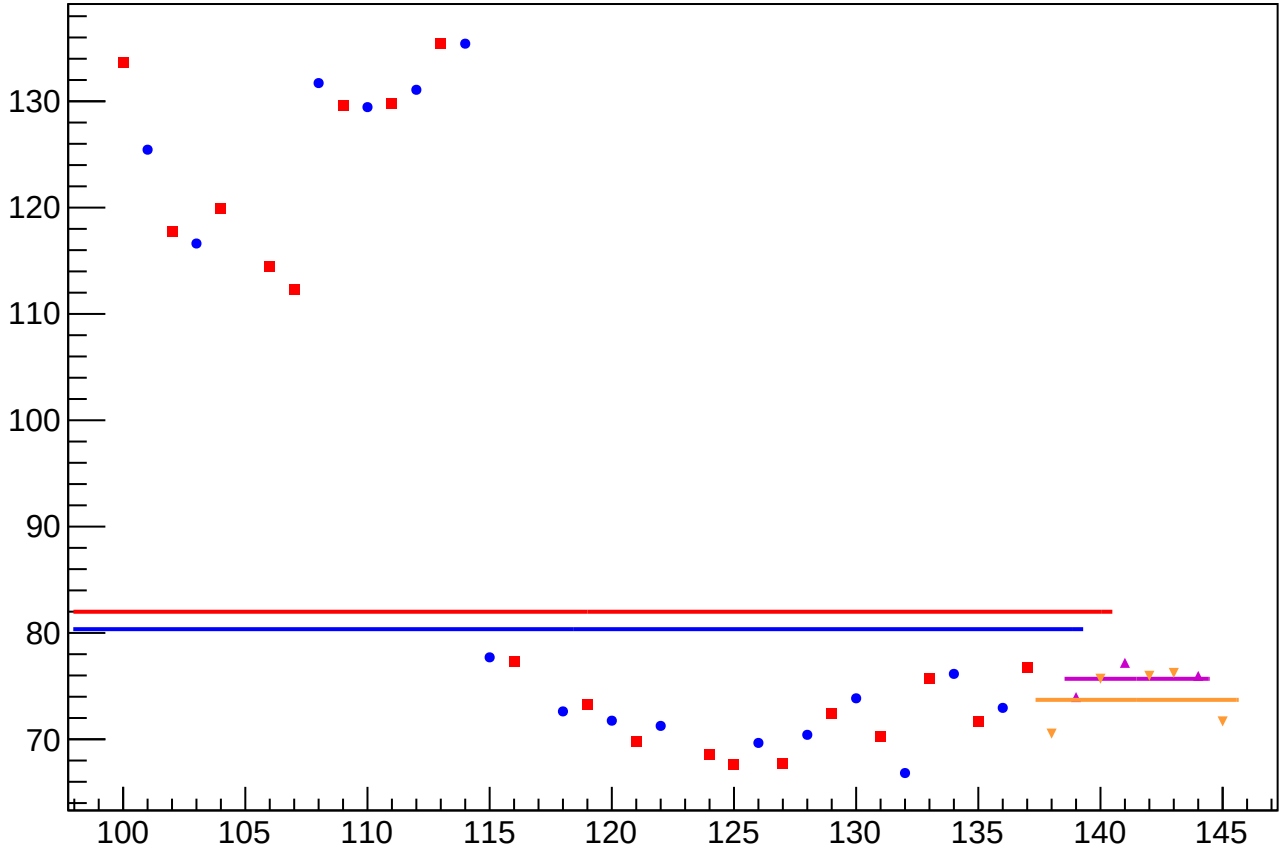
Right: 25.463+/-21.865 $\chi^2$/NDF: 41.1/34

In: -14.450+/-25.704 $\chi^2$/NDF:24.1/18

Out: -22.194+/-24.150 $\chi^2$/NDF:35.3/23

All: -18.563+/-17.600 $\chi^2$/NDF: 59.5/42

# reg_asym_sam1_rms vs Slug, Sign Corrected




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.5/15

Left Out: 73.707+/-0.027 $\chi^2$/NDF:8199.5/4

Right Out: 81.993+/-0.022 $\chi^2$/NDF: 932337.7/18

Left In: 75.686+/-0.033 $\chi^2$/NDF:1603.3/2

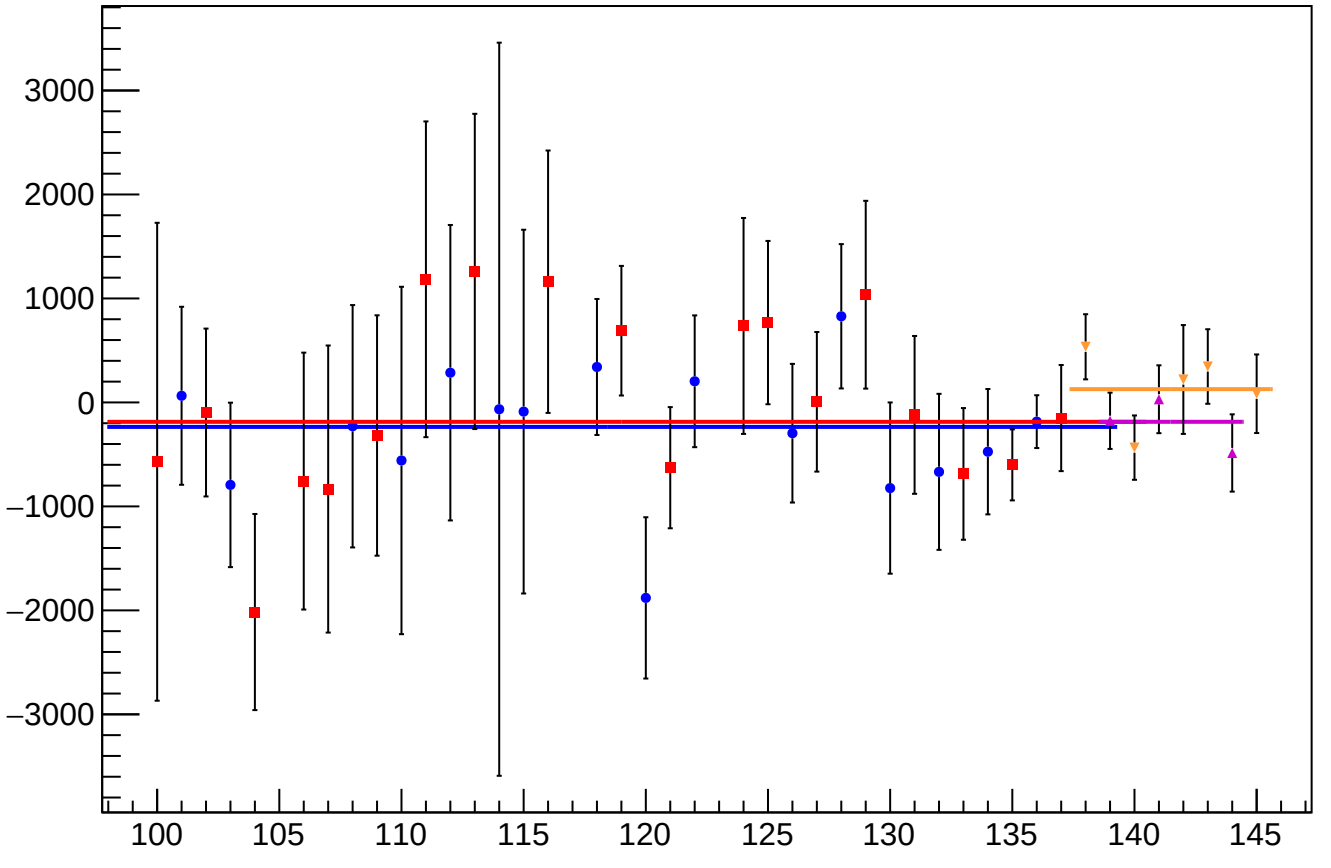
Left: 74.505+/-0.021 $\chi^2$/NDF: 11944.4/7

Right: 81.166+/-0.015 $\chi^2$/NDF: 1775186.5/34

In: 78.940+/-0.018 $\chi^2$/NDF:855572.0/18

Out: 78.717+/-0.017 $\chi^2$/NDF:996819.7/23

All: 78.821+/-0.012 $\chi^2$/NDF: 1852471.8/42




Right In: -235.521+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 127.694+/-159.988 $\chi^2$/NDF:5.4/4

Right Out: -186.618+/-170.394 $\chi^2$/NDF: 16.0/18

Left In: -186.310+/-181.757 $\chi^2$/NDF:1.1/2

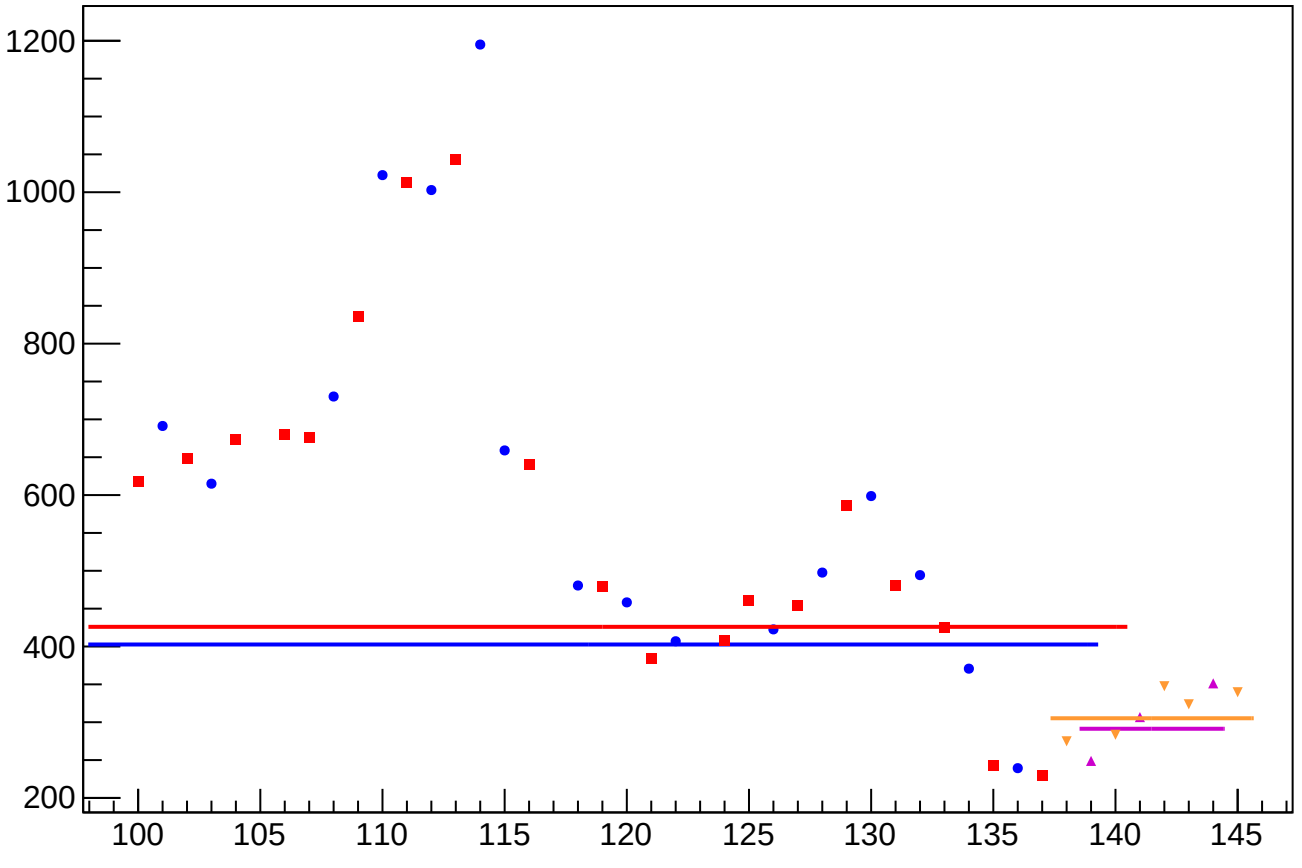
Left: -9.386+/-120.091 $\chi^2$/NDF: 8.2/7

Right: -212.039+/-118.073 $\chi^2$/NDF: 25.9/34

In: -213.471+/-121.664 $\chi^2$/NDF:11.1/18

Out: -19.572+/-116.634 $\chi^2$/NDF:23.2/23

All: -112.430+/-84.195 $\chi^2$/NDF: 35.6/42




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360092.2/15

Left Out: 305.229+/-0.113 $\chi^2$/NDF:63675.0/4

Right Out: 425.980+/-0.120 $\chi^2$/NDF: 2368792.4/18

Left In: 291.367+/-0.129 $\chi^2$/NDF:105730.7/2

Left: 299.177+/-0.085 $\chi^2$/NDF: 175960.9/7

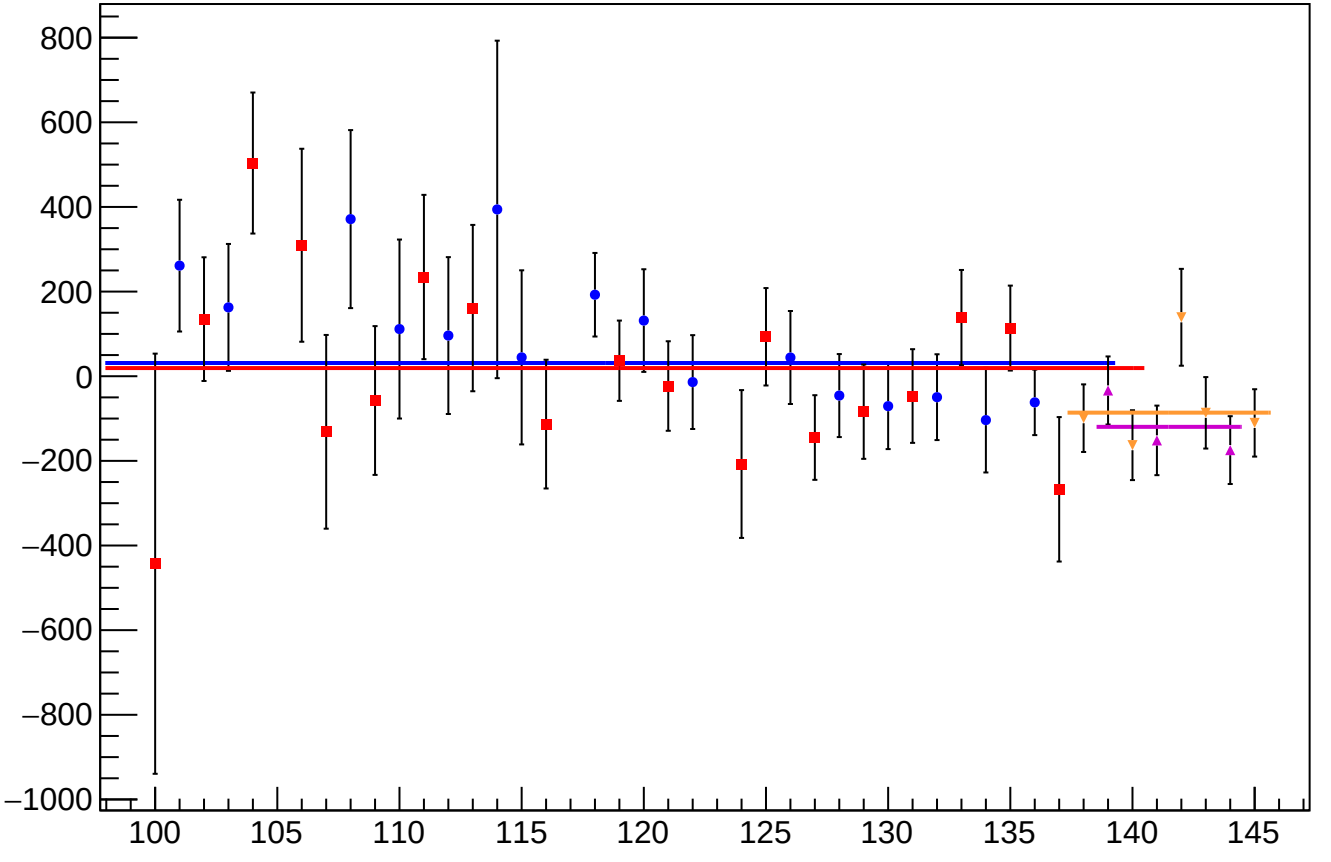
Right: 413.856+/-0.083 $\chi^2$/NDF: 4748361.6/34

In: 352.792+/-0.086 $\chi^2$/NDF:2879682.6/18

Out: 361.805+/-0.082 $\chi^2$/NDF:2966263.5/23

All: 357.488+/-0.060 $\chi^2$/NDF: 5851665.8/42

# cor_asym_sam1_mean vs Slug, Sign Corrected




Right In: 31.260+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -86.055+/-38.405 $\chi^2$/NDF:4.9/4

Right Out: 19.282+/-31.060 $\chi^2$/NDF: 25.7/18

Left In: -119.613+/-46.702 $\chi^2$/NDF:1.8/2

Left: -99.594+/-29.663 $\chi^2$/NDF: 6.9/7

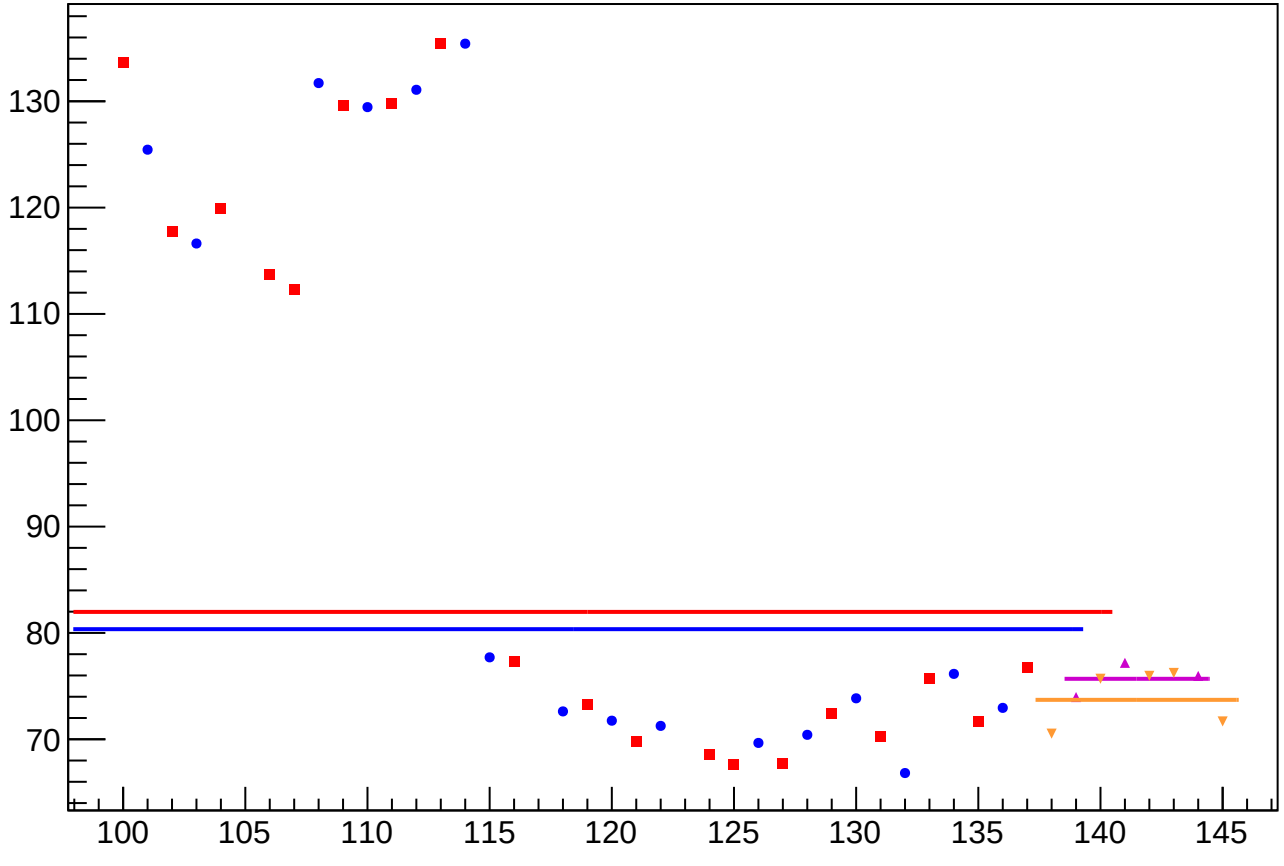
Right: 25.324+/-21.865 $\chi^2$/NDF: 40.9/34

In: -14.442+/-25.704 $\chi^2$/NDF:24.1/18

Out: -22.371+/-24.150 $\chi^2$/NDF:35.1/23

All: -18.653+/-17.600 $\chi^2$/NDF: 59.3/42

# cor_asym_sam1_rms vs Slug, Sign Corrected




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.7/15

Left Out: 73.707+/-0.027 $\chi^2$/NDF:8199.5/4

Right Out: 81.978+/-0.022 $\chi^2$/NDF: 930466.5/18

Left In: 75.686+/-0.033 $\chi^2$/NDF:1603.3/2

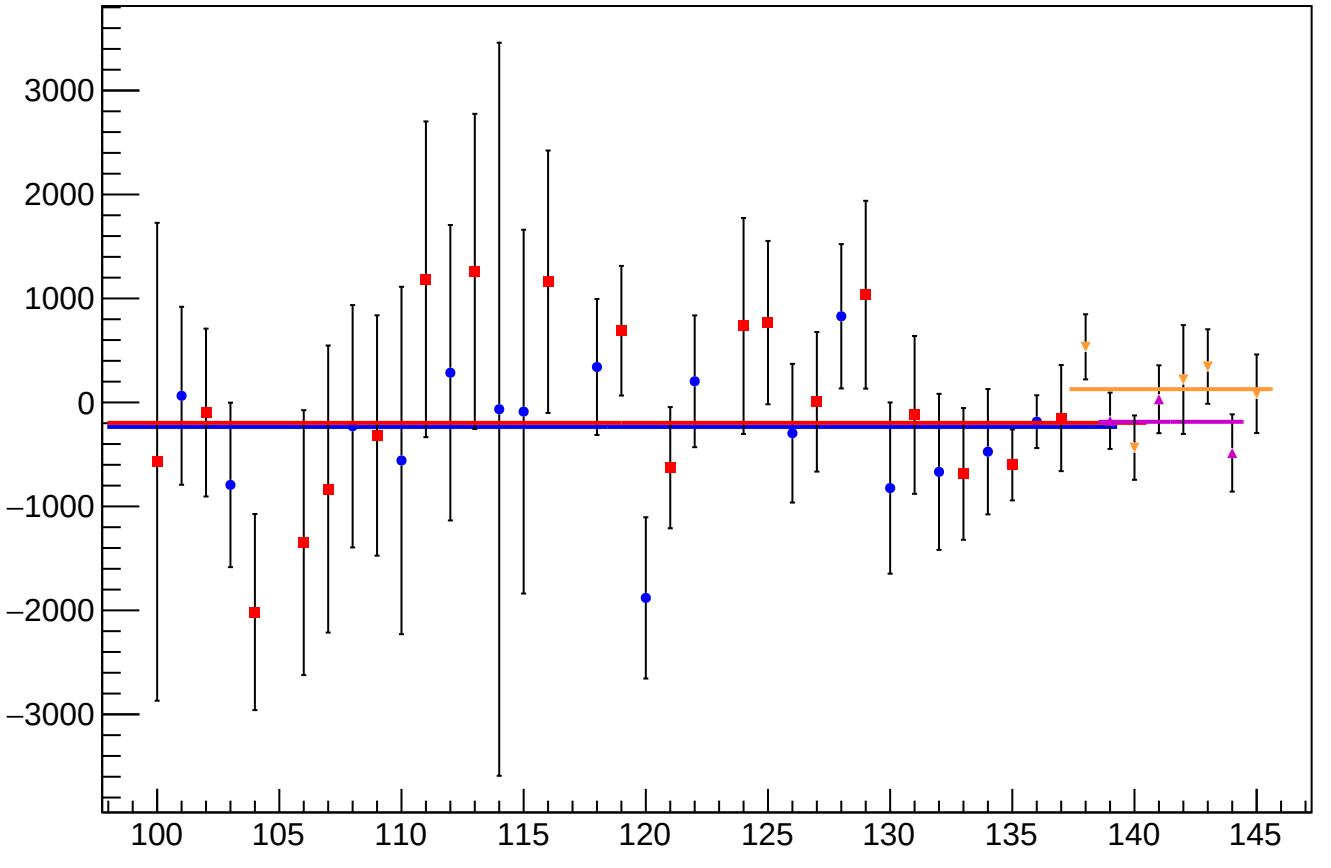
Left: 74.505+/-0.021 $\chi^2$/NDF: 11944.4/7

Right: 81.159+/-0.015 $\chi^2$/NDF: 1773264.0/34

In: 78.940+/-0.018 $\chi^2$/NDF:855572.2/18

Out: 78.707+/-0.017 $\chi^2$/NDF:994743.0/23

All: 78.816+/-0.012 $\chi^2$/NDF: 1850402.1/42




Right In: -235.519+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 127.694+/-159.987 $\chi^2$/NDF:5.4/4

Right Out: -196.579+/-170.492 $\chi^2$/NDF: 16.6/18

Left In: -186.309+/-181.757 $\chi^2$/NDF:1.1/2

Left: -9.386+/-120.091 $\chi^2$/NDF: 8.2/7

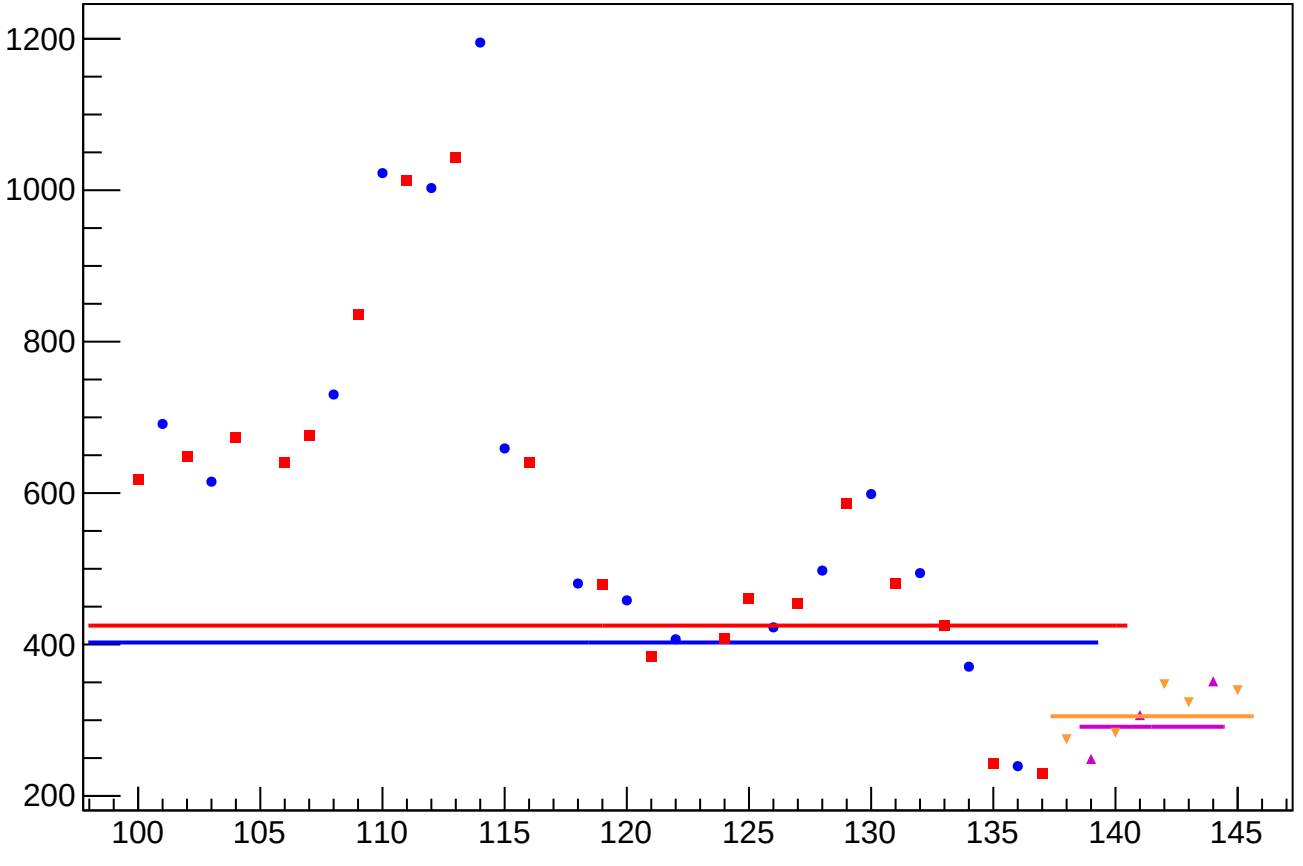
Right: -216.832+/-118.106 $\chi^2$/NDF: 26.5/34

In: -213.470+/-121.664 $\chi^2$/NDF:11.1/18

Out: -24.146+/-116.665 $\chi^2$/NDF:23.9/23

All: -114.838+/-84.207 $\chi^2$/NDF: 36.2/42

# asym_sam1_cor_correction_rms vs Slug, Sign Corrected




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360087.3/15

Left Out: 305.229+/-0.113 $\chi^2$/NDF:63676.3/4

Right Out: 424.988+/-0.121 $\chi^2$/NDF: 2341027.2/18

Left In: 291.366+/-0.129 $\chi^2$/NDF:105730.6/2

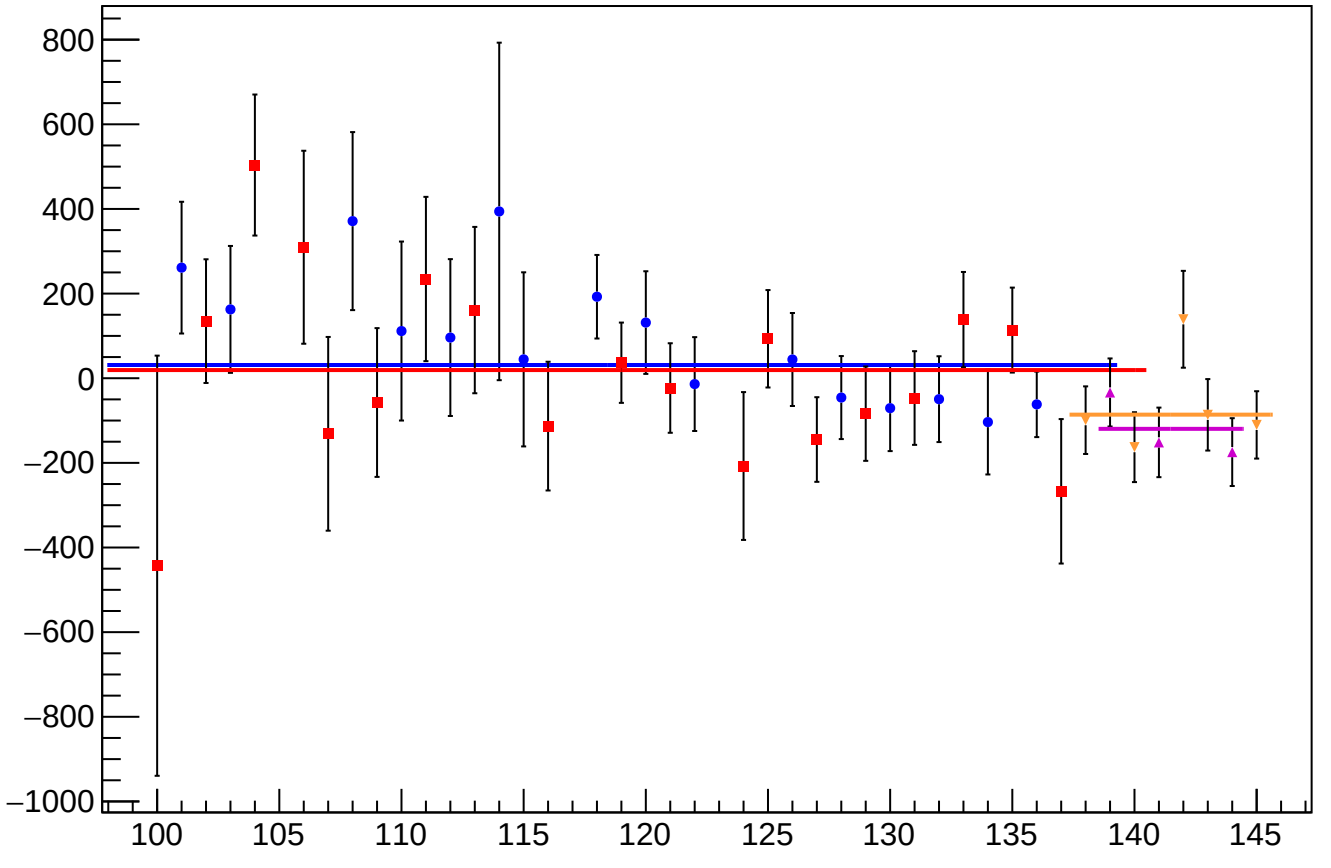
Left: 299.177+/-0.085 $\chi^2$/NDF: 175962.1/7

Right: 413.374+/-0.084 $\chi^2$/NDF: 4718958.6/34

In: 352.792+/-0.086 $\chi^2$/NDF:2879682.0/18

Out: 361.306+/-0.082 $\chi^2$/NDF:2929448.2/23

All: 357.227+/-0.060 $\chi^2$/NDF: 5814232.5/42




Right In: 31.260+/-30.786 $\chi^2$/NDF: 15.1/15

Left Out: -86.055+/-38.405 $\chi^2$/NDF:4.9/4

Right Out: 19.282+/-31.060 $\chi^2$/NDF: 25.7/18

Left In: -119.613+/-46.702 $\chi^2$/NDF:1.8/2

Left: -99.594+/-29.663 $\chi^2$/NDF: 6.9/7

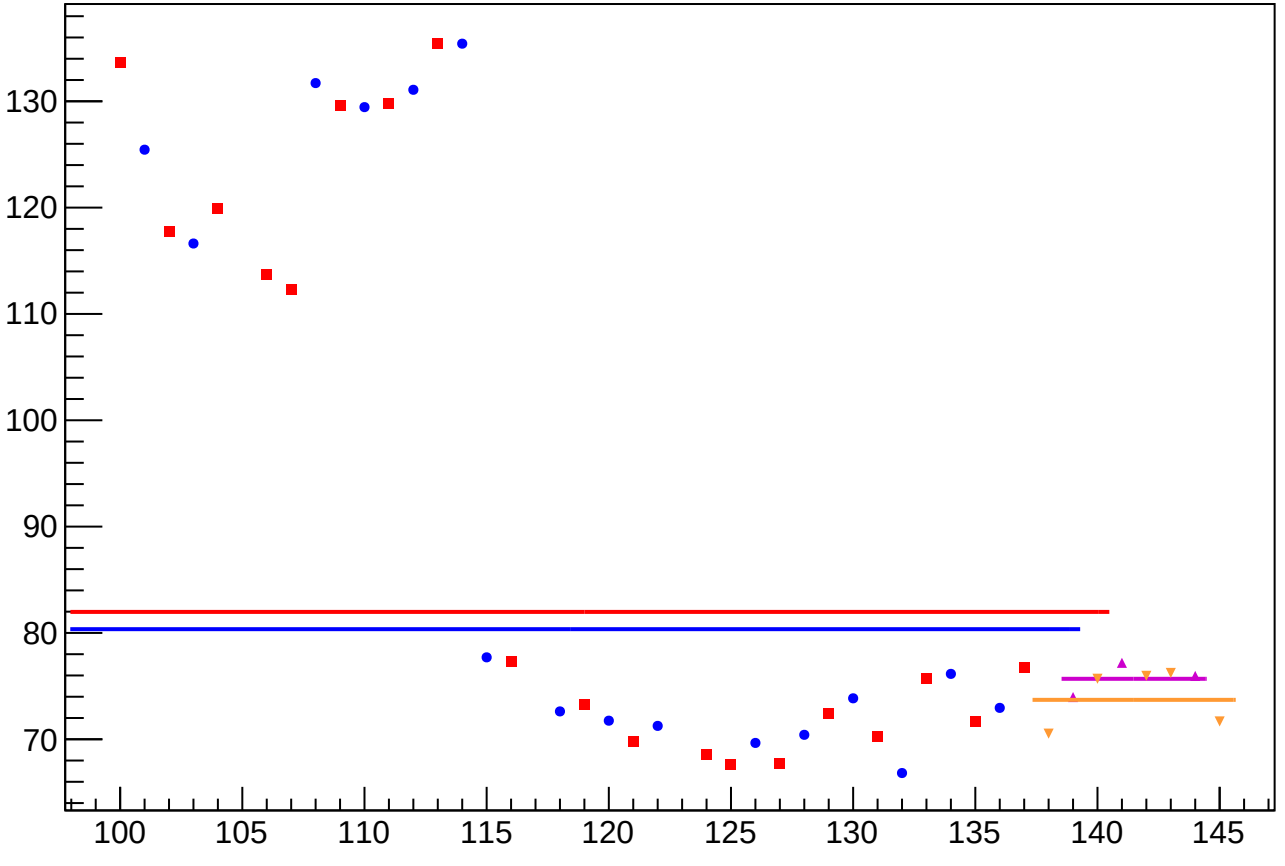
Right: 25.324+/-21.865 $\chi^2$/NDF: 40.9/34

In: -14.442+/-25.704 $\chi^2$/NDF:24.1/18

Out: -22.371+/-24.150 $\chi^2$/NDF:35.1/23

All: -18.653+/-17.600 $\chi^2$/NDF: 59.3/42

# eigen_cor_asym_sam1_rms vs Slug, Sign Corrected




Right In: 80.354+/-0.022 $\chi^2$/NDF: 840039.7/15

Left Out: 73.707+/-0.027 $\chi^2$/NDF:8199.5/4

Right Out: 81.978+/-0.022 $\chi^2$/NDF: 930466.5/18

Left In: 75.686+/-0.033 $\chi^2$/NDF:1603.3/2

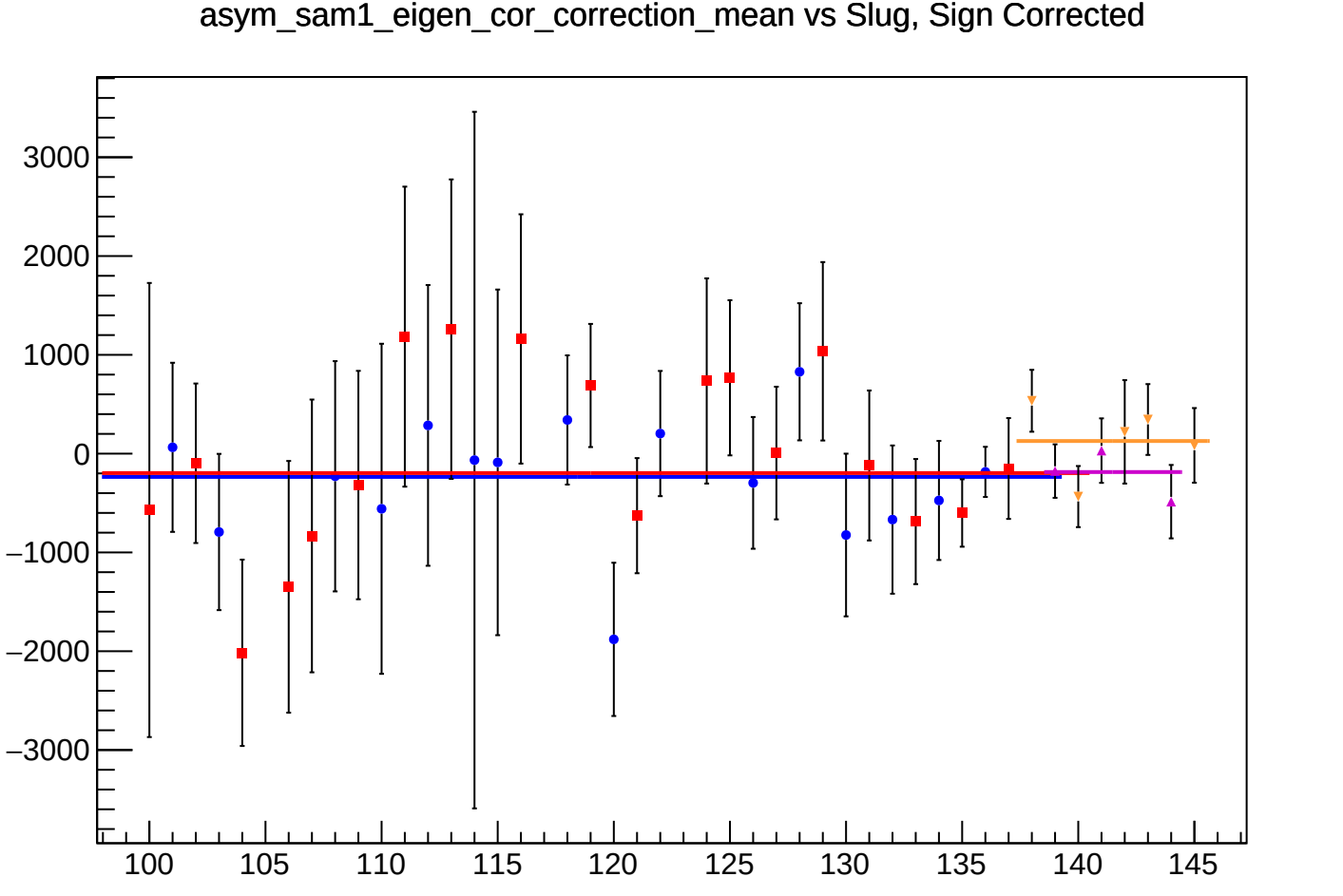
Left: 74.505+/-0.021 $\chi^2$/NDF: 11944.4/7

Right: 81.159+/-0.015 $\chi^2$/NDF: 1773264.0/34

In: 78.940+/-0.018 $\chi^2$/NDF:855572.2/18

Out: 78.707+/-0.017 $\chi^2$/NDF:994743.0/23

All: 78.816+/-0.012 $\chi^2$/NDF: 1850402.1/42




Right In: -235.519+/-163.765 $\chi^2$/NDF: 9.9/15

Left Out: 127.694+/-159.987 $\chi^2$/NDF:5.4/4

Right Out: -196.579+/-170.492 $\chi^2$/NDF: 16.6/18

Left In: -186.309+/-181.757 $\chi^2$/NDF:1.1/2

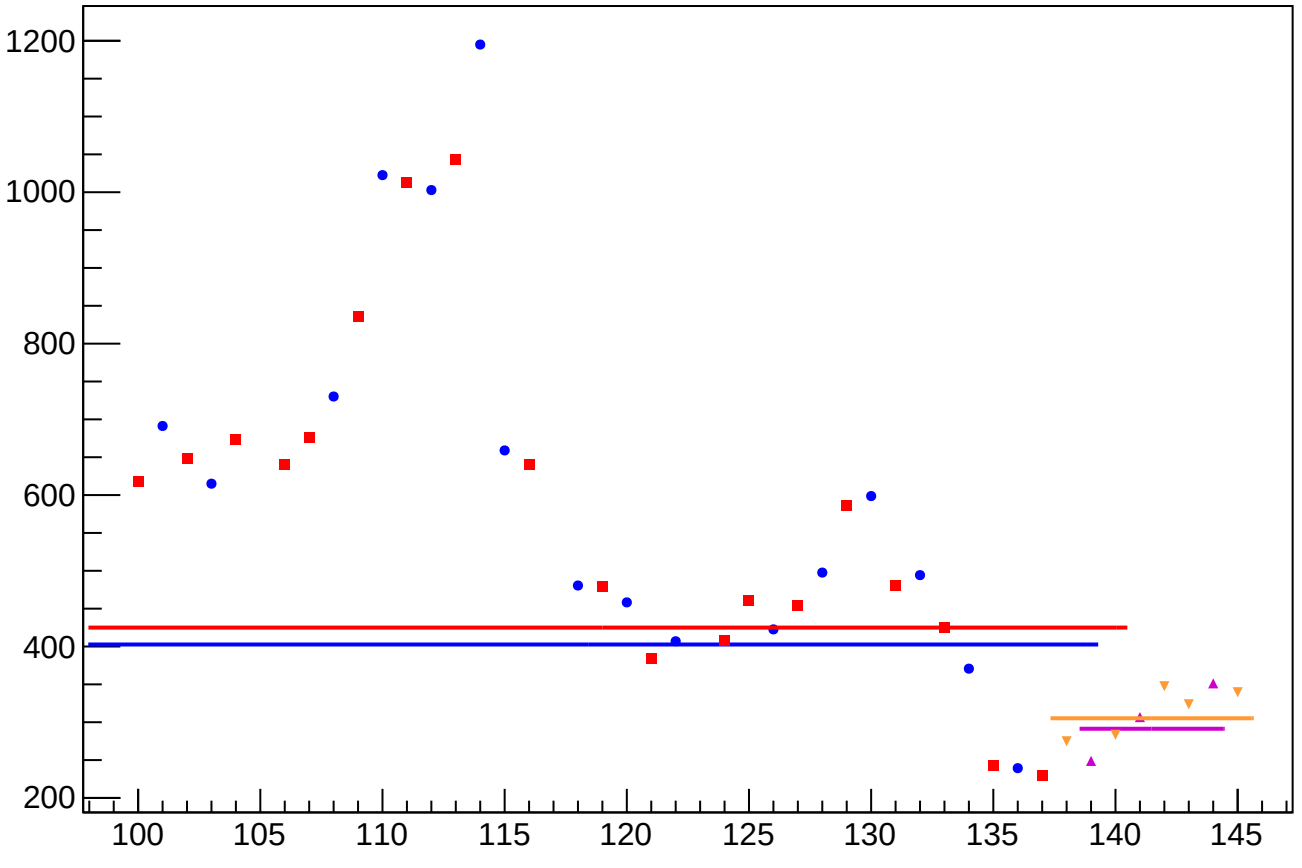
Left: -9.386+/-120.091 $\chi^2$/NDF: 8.2/7

Right: -216.832+/-118.106 $\chi^2$/NDF: 26.5/34

In: -213.470+/-121.664 $\chi^2$/NDF:11.1/18

Out: -24.146+/-116.665 $\chi^2$/NDF:23.9/23

All: -114.838+/-84.207 $\chi^2$/NDF: 36.2/42




Right In: 402.658+/-0.116 $\chi^2$/NDF: 2360087.3/15

Left Out: 305.229+/-0.113 $\chi^2$/NDF:63676.3/4

Right Out: 424.988+/-0.121 $\chi^2$/NDF: 2341027.2/18

Left In: 291.366+/-0.129 $\chi^2$/NDF:105730.6/2

Left: 299.177+/-0.085 $\chi^2$/NDF: 175962.1/7

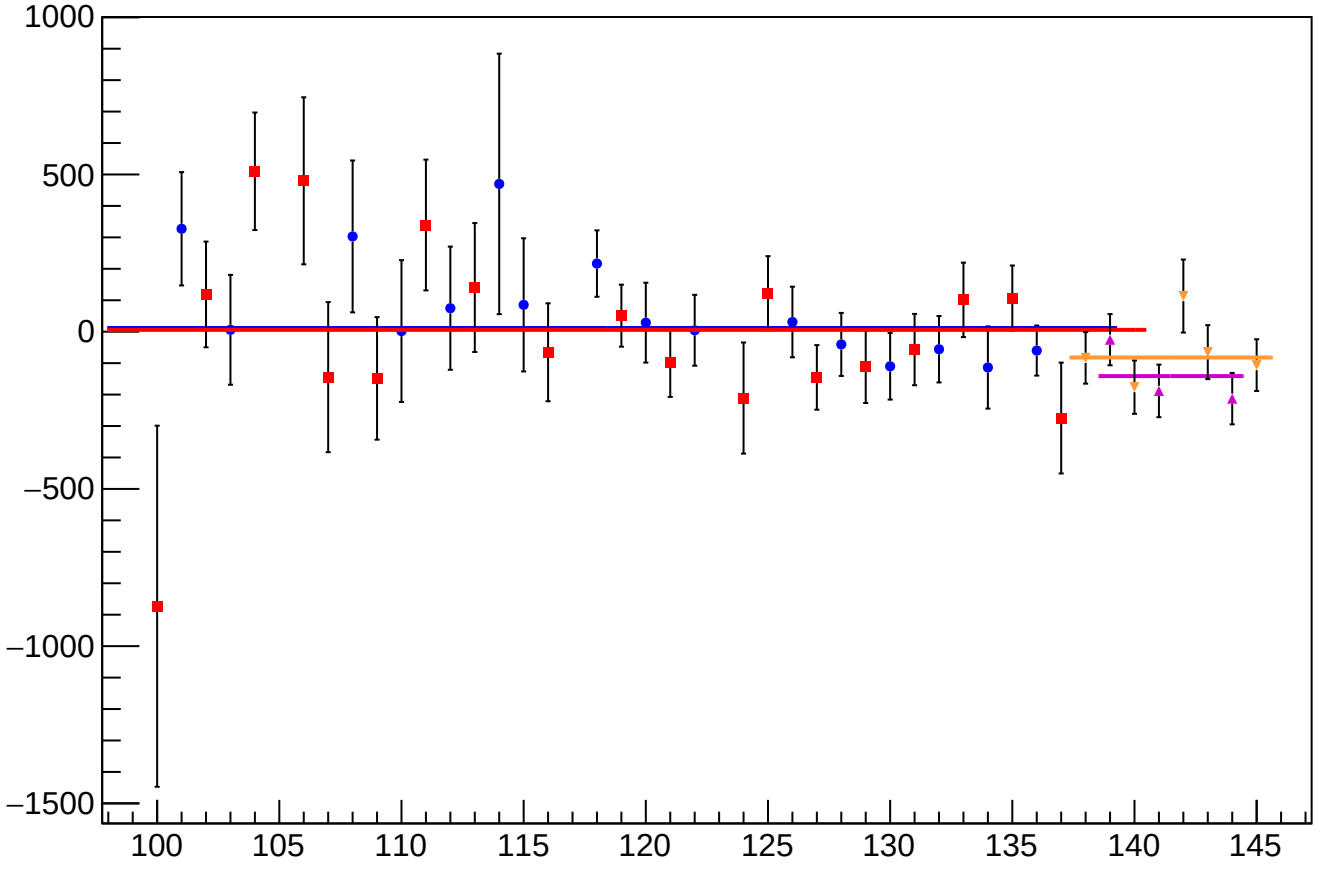
Right: 413.374+/-0.084 $\chi^2$/NDF: 4718958.6/34

In: 352.792+/-0.086 $\chi^2$/NDF:2879682.0/18

Out: 361.306+/-0.082 $\chi^2$/NDF:2929448.2/23

All: 357.227+/-0.060 $\chi^2$/NDF: 5814232.5/42

# dit_asym_sam1_mean vs Slug, Sign Corrected




Right In: 11.651+/-32.297 $\chi^2$/NDF: 13.5/15

Left Out: -82.074+/-39.354 $\chi^2$/NDF:4.2/4

Right Out: 5.817+/-32.444 $\chi^2$/NDF: 28.8/18

Left In: -141.227+/-47.475 $\chi^2$/NDF:3.1/2

Left: -106.166+/-30.298 $\chi^2$/NDF: 8.2/7

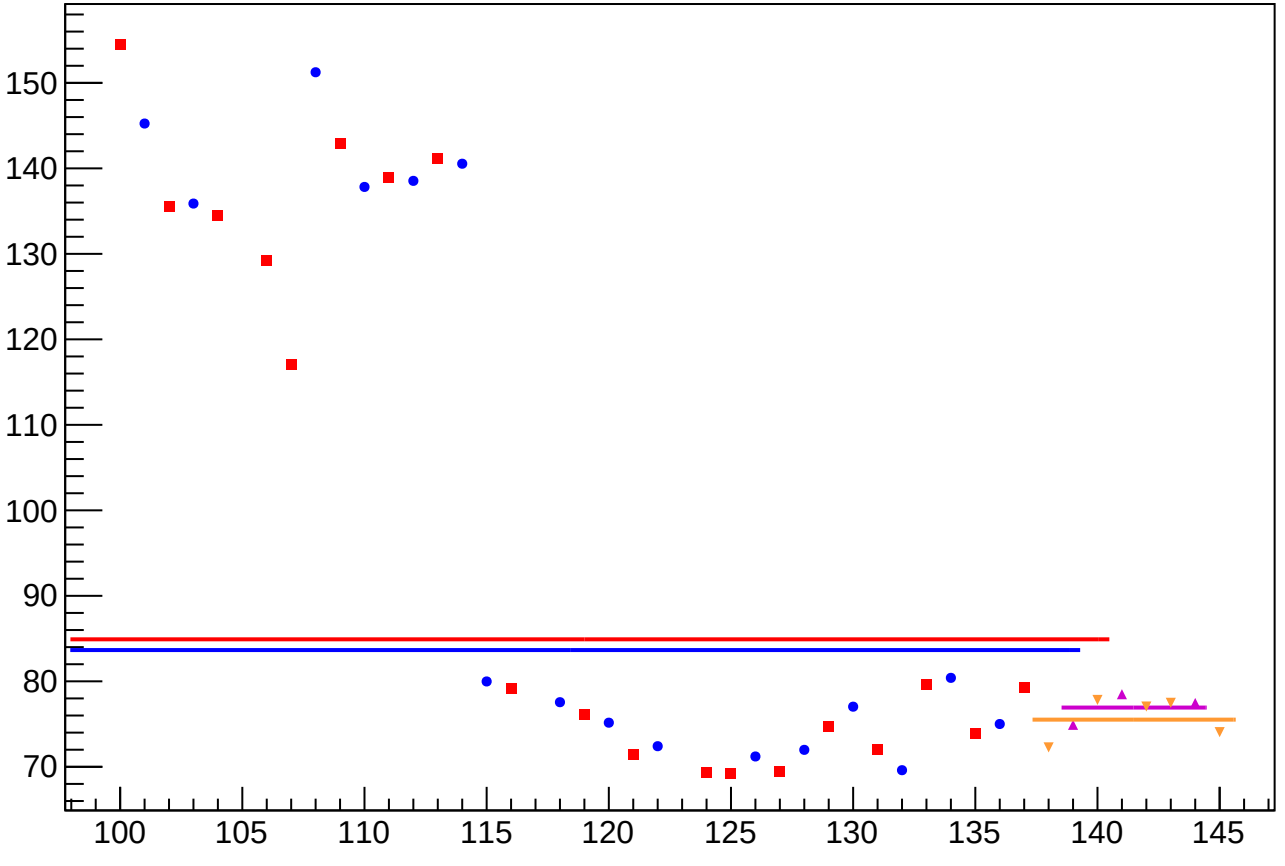
Right: 8.747+/-22.889 $\chi^2$/NDF: 42.3/34

In: -36.716+/-26.704 $\chi^2$/NDF:23.7/18

Out: -29.746+/-25.034 $\chi^2$/NDF:35.9/23

All: -33.007+/-18.263 $\chi^2$/NDF: 59.7/42

# dit_asym_sam1_rms vs Slug, Sign Corrected




Right In: 83.657+/-0.023 $\chi^2$/NDF: 1034794.6/15

Left Out: 75.518+/-0.028 $\chi^2$/NDF:6653.1/4

Right Out: 84.913+/-0.023 $\chi^2$/NDF: 1121669.5/18

Left In: 76.930+/-0.034 $\chi^2$/NDF:2011.4/2

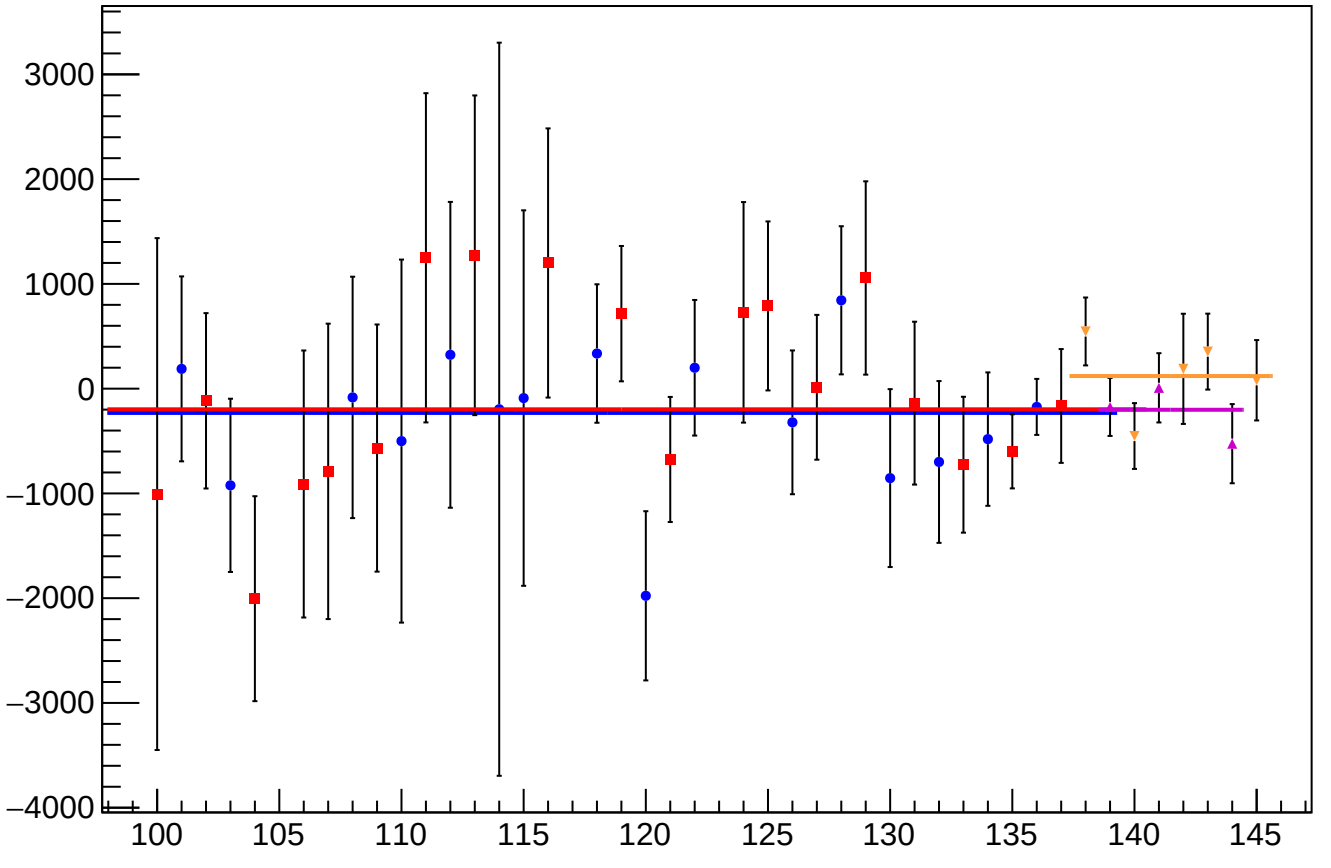
Left: 76.093+/-0.021 $\chi^2$/NDF: 9713.0/7

Right: 84.282+/-0.016 $\chi^2$/NDF: 2157969.4/34

In: 81.529+/-0.019 $\chi^2$/NDF:1064254.6/18

Out: 81.112+/-0.018 $\chi^2$/NDF:1196178.6/23

All: 81.307+/-0.013 $\chi^2$/NDF: 2260693.1/42




Right In: -231.407+/-170.133 $\chi^2$/NDF: 10.4/15

Left Out: 120.286+/-162.889 $\chi^2$/NDF:5.5/4

Right Out: -197.206+/-176.091 $\chi^2$/NDF: 15.9/18

Left In: -201.511+/-184.994 $\chi^2$/NDF:1.1/2

Left: -20.248+/-122.252 $\chi^2$/NDF: 8.3/7

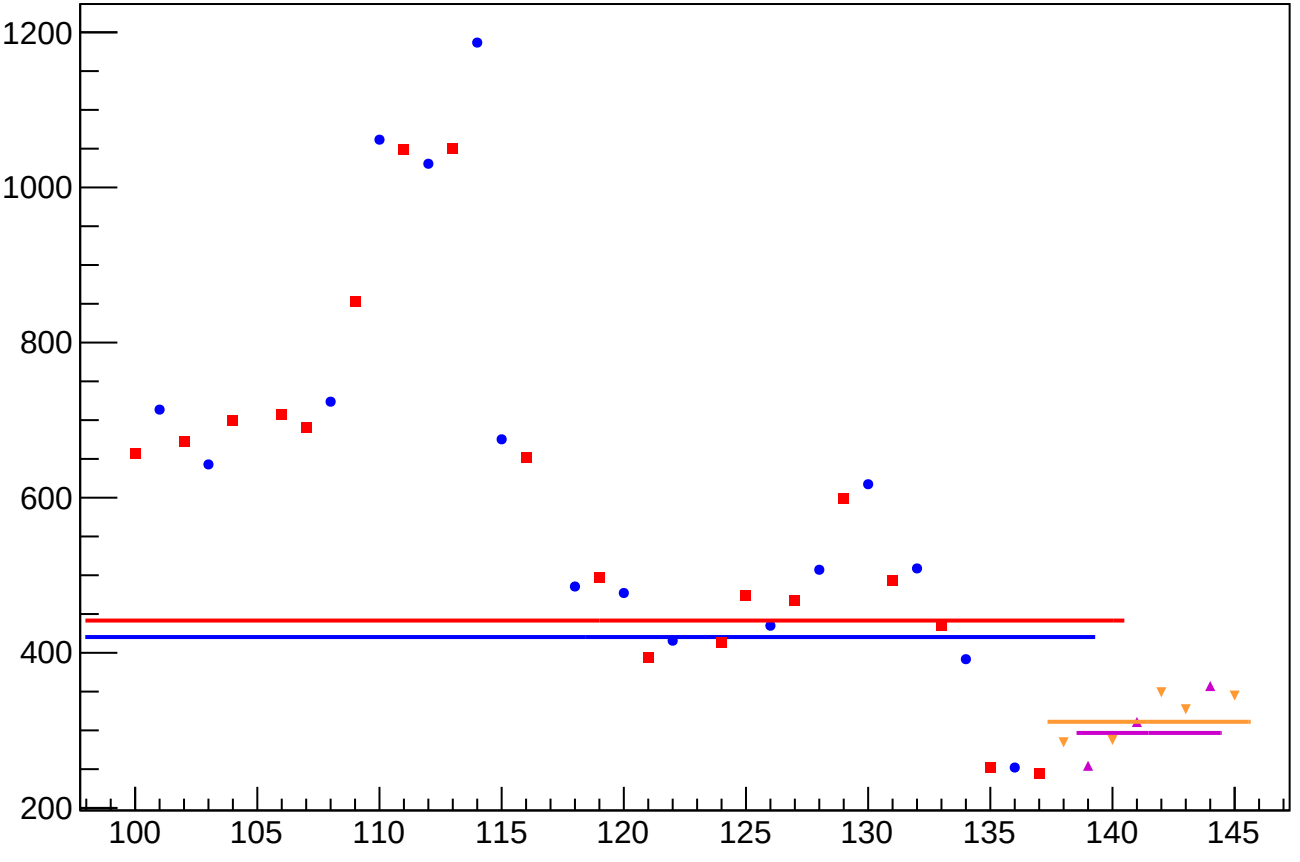
Right: -214.895+/-122.354 $\chi^2$/NDF: 26.3/34

In: -217.708+/-125.227 $\chi^2$/NDF:11.6/18

Out: -26.114+/-119.575 $\chi^2$/NDF:23.1/23

All: -117.490+/-86.481 $\chi^2$/NDF: 35.9/42

# asym_sam1_dit_correction_rms vs Slug, Sign Corrected




Right In: 420.329+/-0.120 $\chi^2$/NDF: 2254610.0/15

Left Out: 311.071+/-0.115 $\chi^2$/NDF:54436.5/4

Right Out: 441.598+/-0.125 $\chi^2$/NDF: 2307588.5/18

Left In: 296.710+/-0.131 $\chi^2$/NDF:101675.0/2

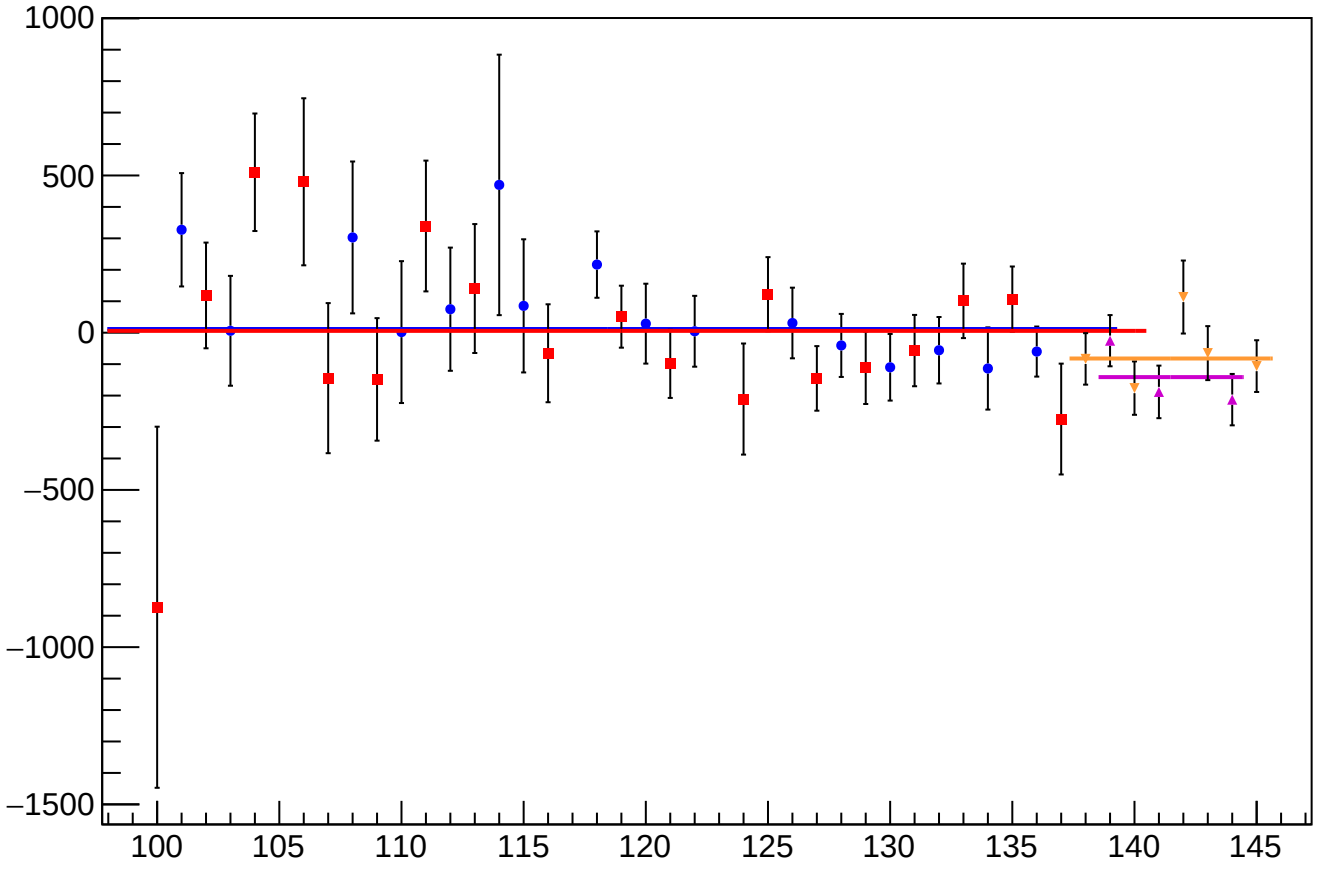
Left: 304.799+/-0.086 $\chi^2$/NDF: 162900.7/7

Right: 430.598+/-0.087 $\chi^2$/NDF: 4577288.4/34

In: 363.684+/-0.089 $\chi^2$/NDF:2840132.2/18

Out: 371.258+/-0.085 $\chi^2$/NDF:2954203.8/23

All: 367.646+/-0.061 $\chi^2$/NDF: 5798163.6/42




Right In: 11.652+/-32.297 $\chi^2$/NDF: 13.5/15

Left Out: -82.075+/-39.354 $\chi^2$/NDF:4.2/4

Right Out: 5.816+/-32.444 $\chi^2$/NDF: 28.8/18

Left In: -141.227+/-47.475 $\chi^2$/NDF:3.1/2

Left: -106.167+/-30.298 $\chi^2$/NDF: 8.2/7

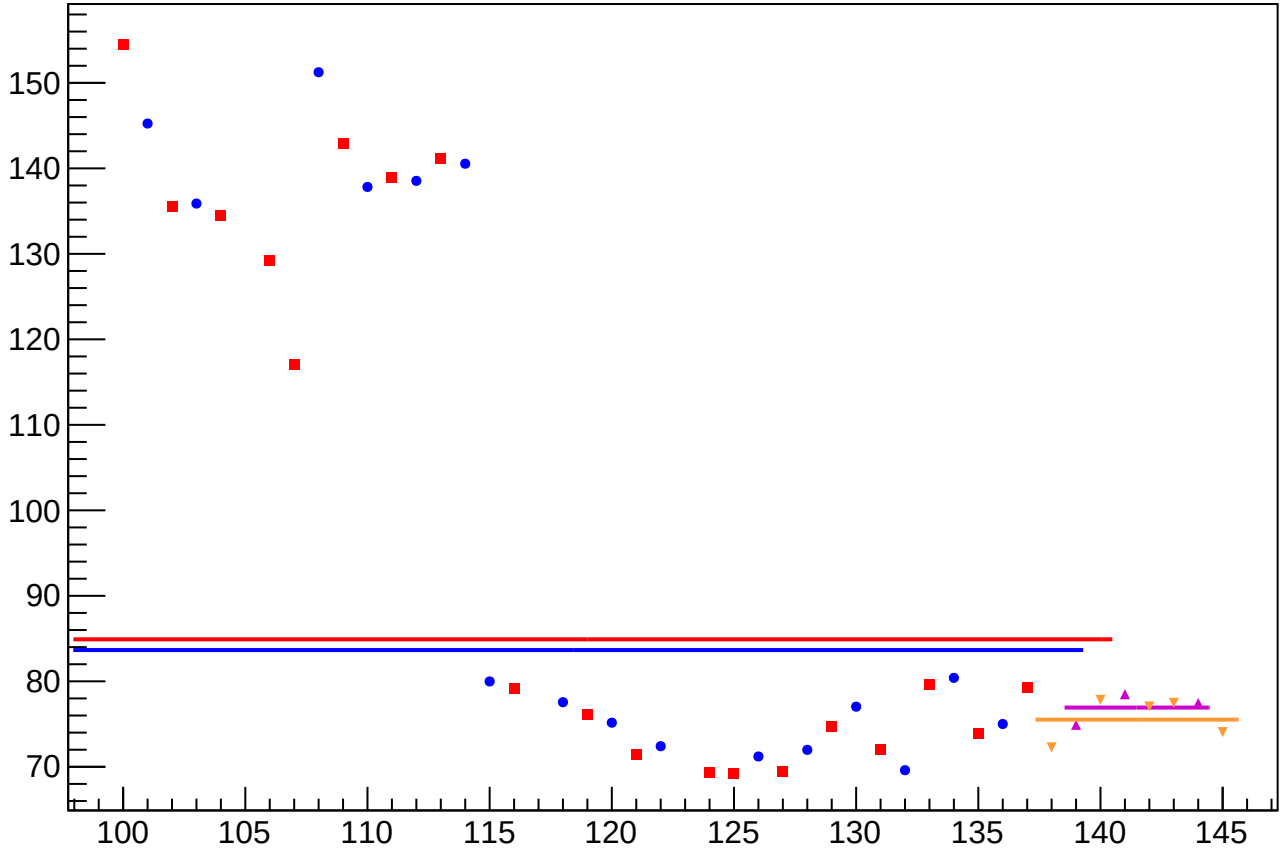
Right: 8.747+/-22.889 $\chi^2$/NDF: 42.3/34

In: -36.715+/-26.704 $\chi^2$/NDF:23.7/18

Out: -29.747+/-25.034 $\chi^2$/NDF:35.9/23

All: -33.007+/-18.263 $\chi^2$/NDF: 59.7/42

# eigen_dit_asym_sam1_rms vs Slug, Sign Corrected




Right In: 83.657+/-0.023 $\chi^2$/NDF: 1034794.1/15

Left Out: 75.518+/-0.028 $\chi^2$/NDF:6653.2/4

Right Out: 84.913+/-0.023 $\chi^2$/NDF: 1121668.5/18

Left In: 76.930+/-0.034 $\chi^2$/NDF:2011.5/2

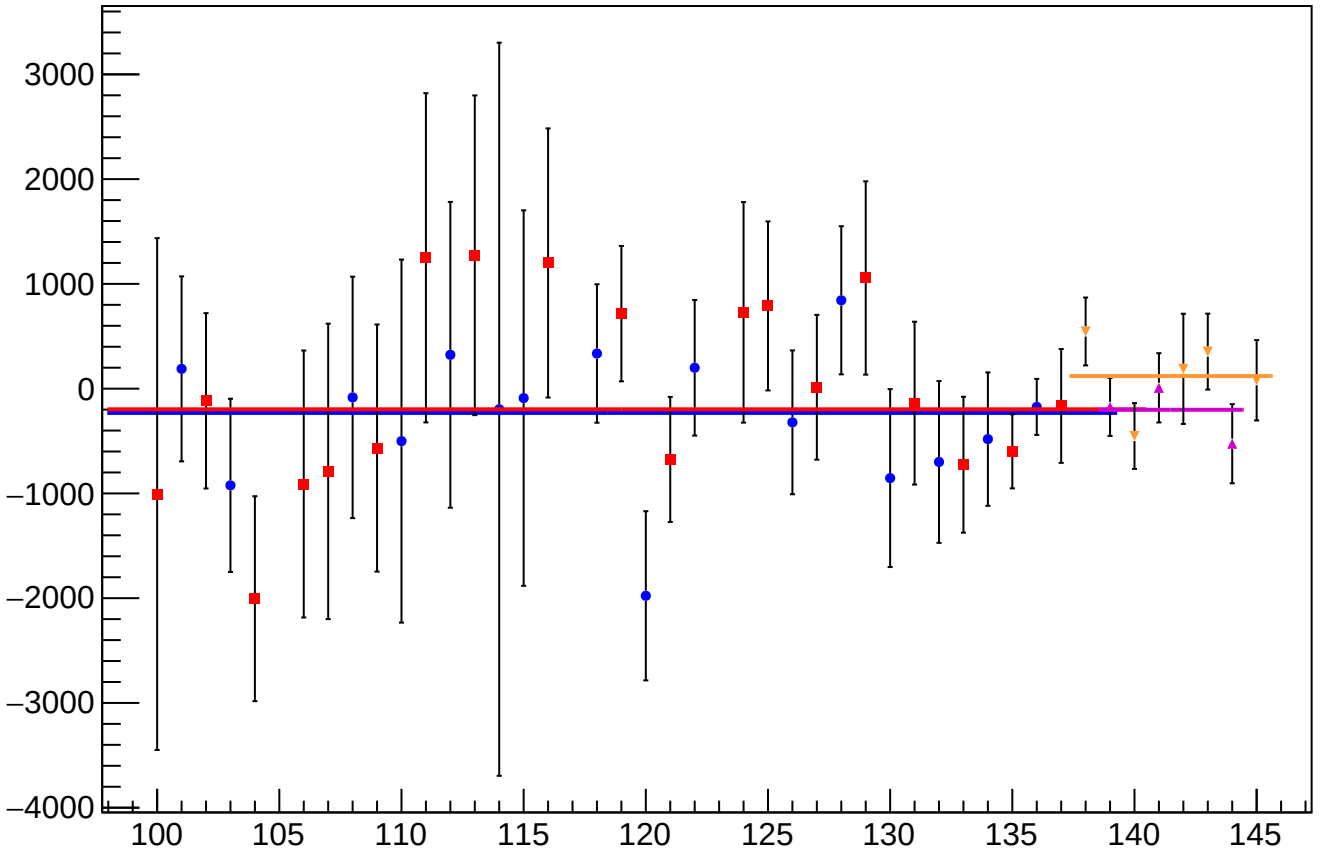
Left: 76.093+/-0.021 $\chi^2$/NDF: 9713.1/7

Right: 84.282+/-0.016 $\chi^2$/NDF: 2157967.8/34

In: 81.529+/-0.019 $\chi^2$/NDF:1064253.6/18

Out: 81.112+/-0.018 $\chi^2$/NDF:1196176.7/23

All: 81.307+/-0.013 $\chi^2$/NDF: 2260690.2/42




Right In: -231.405+/-170.132 $\chi^2$/NDF: 10.4/15

Left Out: 120.284+/-162.889 $\chi^2$/NDF:5.5/4

Right Out: -197.207+/-176.091 $\chi^2$/NDF: 15.9/18

Left In: -201.511+/-184.994 $\chi^2$/NDF:1.1/2

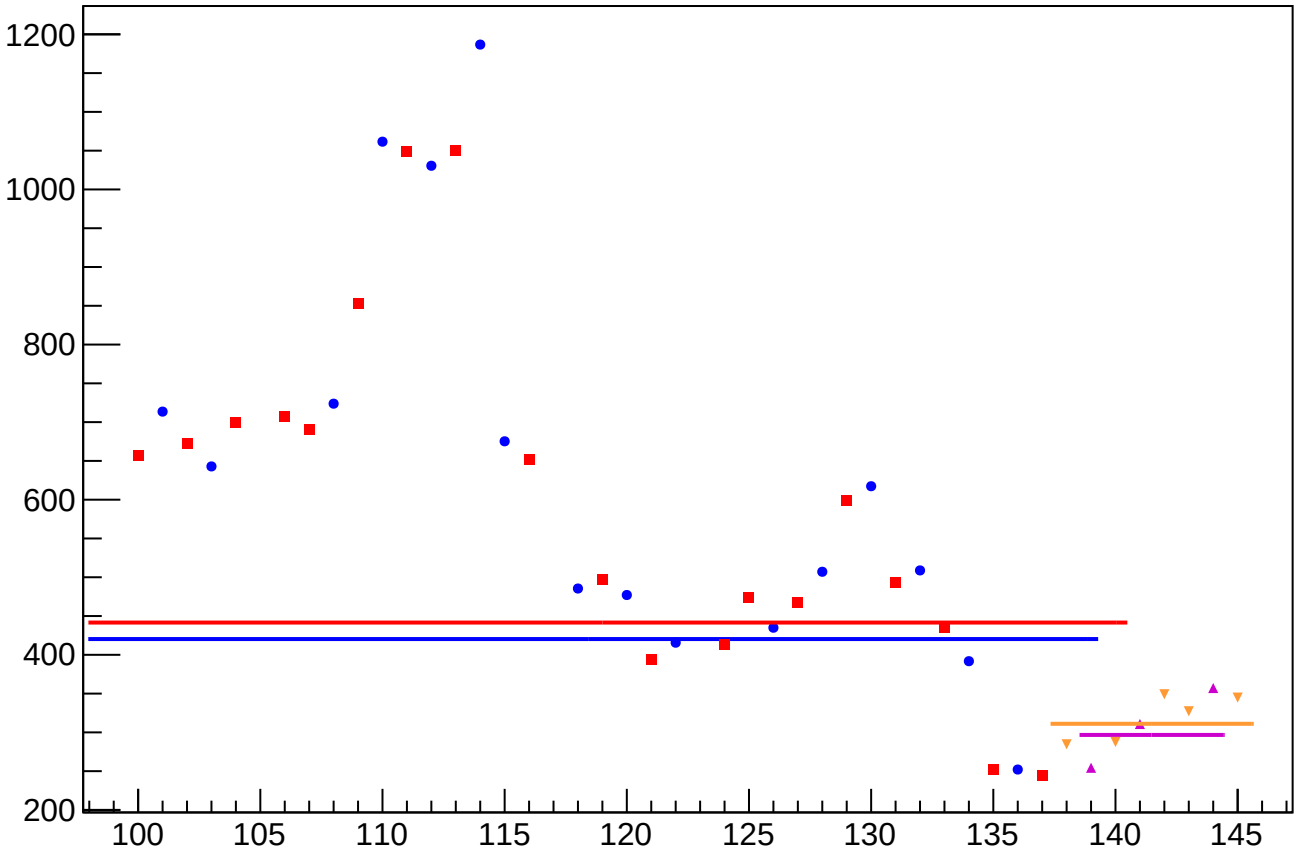
Left: -20.248+/-122.252 $\chi^2$/NDF: 8.3/7

Right: -214.894+/-122.354 $\chi^2$/NDF: 26.3/34

In: -217.707+/-125.227 $\chi^2$/NDF:11.6/18

Out: -26.115+/-119.575 $\chi^2$/NDF:23.1/23

All: -117.490+/-86.481 $\chi^2$/NDF: 35.9/42




Right In: 420.329+/-0.120 $\chi^2$/NDF: 2254614.9/15

Left Out: 311.070+/-0.115 $\chi^2$/NDF:54436.0/4

Right Out: 441.597+/-0.125 $\chi^2$/NDF: 2307595.1/18

Left In: 296.709+/-0.131 $\chi^2$/NDF:101675.0/2

Left: 304.799+/-0.086 $\chi^2$/NDF: 162900.3/7

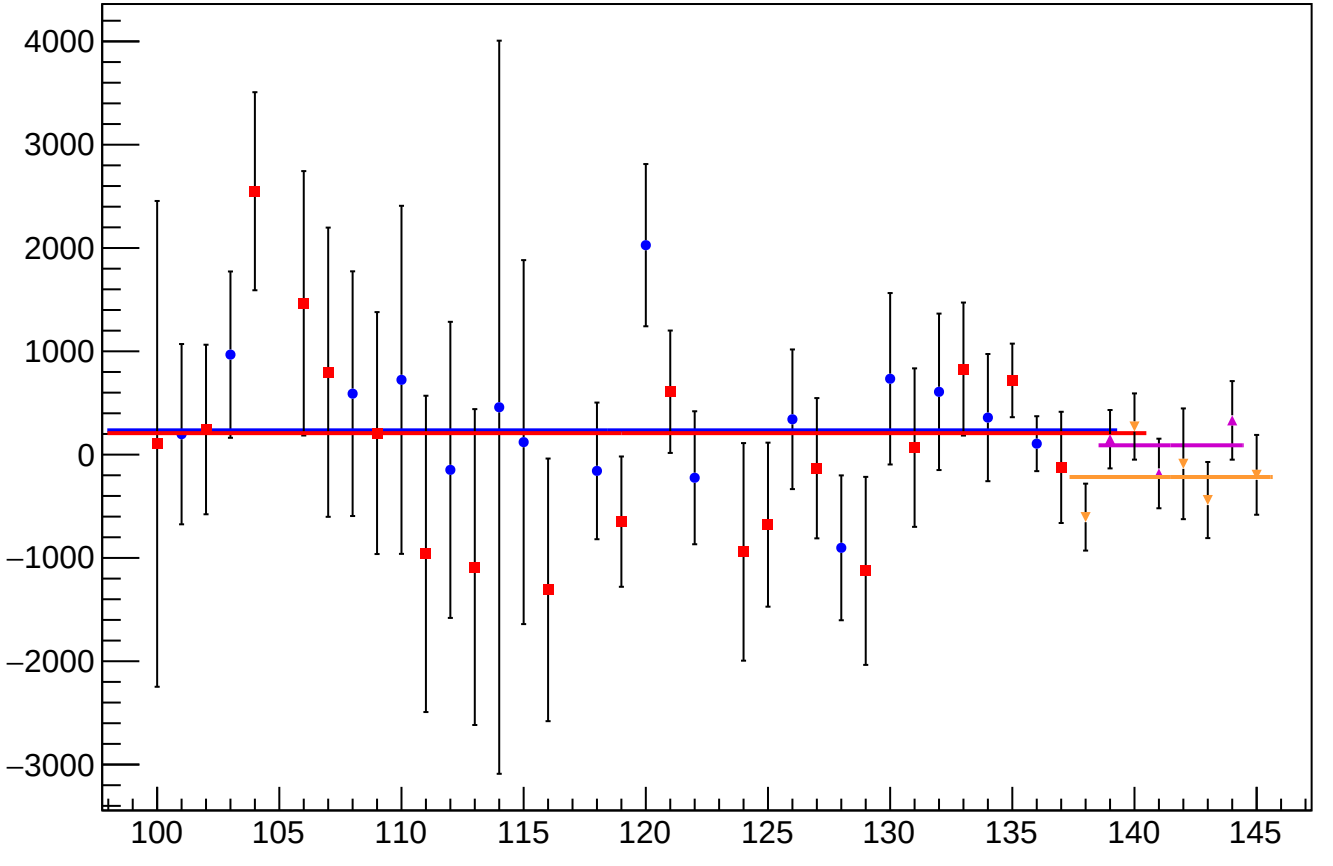
Right: 430.597+/-0.087 $\chi^2$/NDF: 4577299.7/34

In: 363.683+/-0.089 $\chi^2$/NDF:2840135.3/18

Out: 371.258+/-0.085 $\chi^2$/NDF:2954206.8/23

All: 367.645+/-0.061 $\chi^2$/NDF: 5798169.7/42

# asym_sam1_mean vs Slug, Sign Corrected




Right In: 235.054+/-168.199 $\chi^2$/NDF: 10.7/15

Left Out: -216.637+/-164.828 $\chi^2$/NDF:4.2/4

Right Out: 207.936+/-174.716 $\chi^2$/NDF: 20.4/18

Left In: 90.322+/-188.129 $\chi^2$/NDF:1.1/2

Left: -83.334+/-123.976 $\chi^2$/NDF: 6.8/7

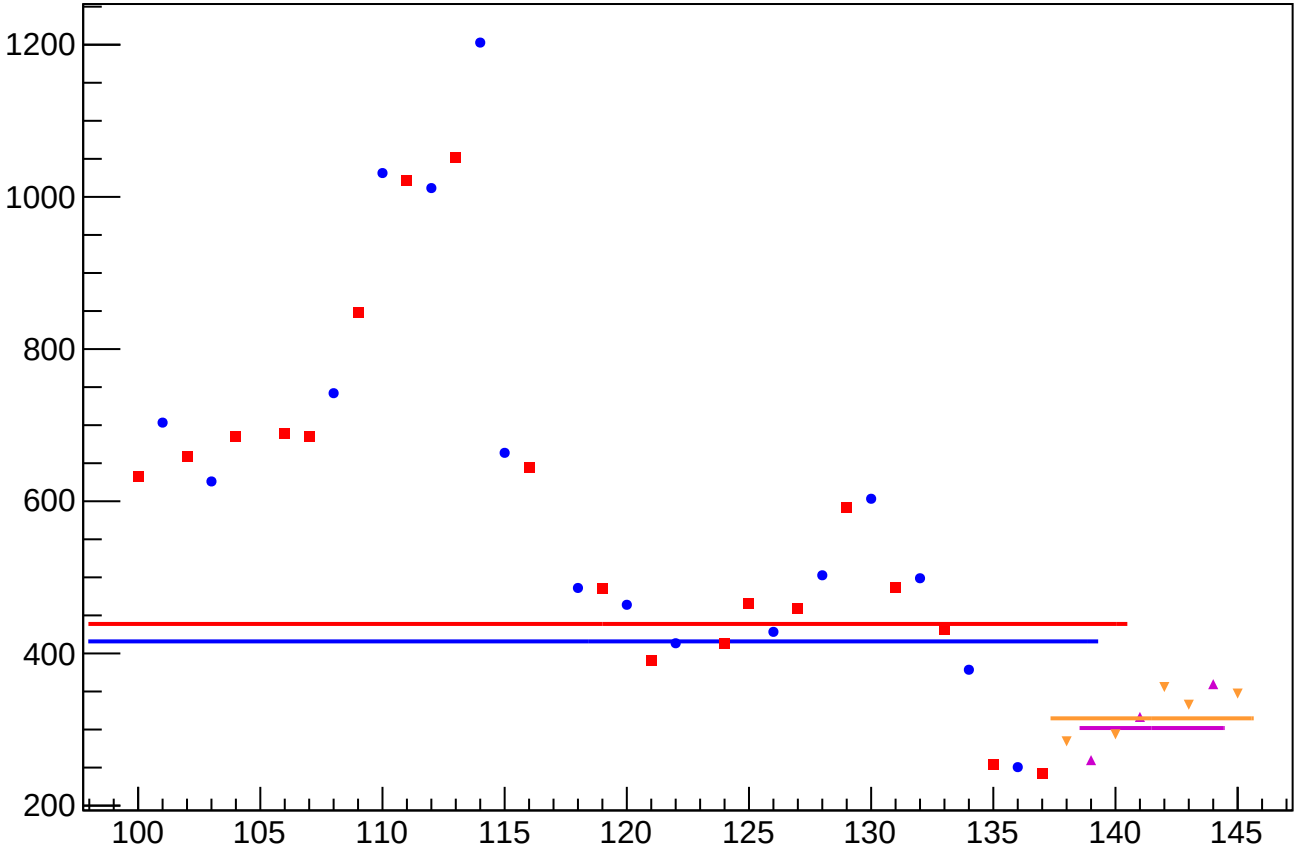
Right: 222.010+/-121.173 $\chi^2$/NDF: 31.1/34

In: 170.758+/-125.391 $\chi^2$/NDF:12.1/18

Out: -16.704+/-119.894 $\chi^2$/NDF:27.7/23

All: 72.828+/-86.656 $\chi^2$/NDF: 41.0/42

# asym_sam1_rms vs Slug, Sign Corrected




Right In: 415.840+/-0.119 $\chi^2$/NDF: 2223949.6/15

Left Out: 314.718+/-0.117 $\chi^2$/NDF:56702.0/4

Right Out: 438.773+/-0.124 $\chi^2$/NDF: 2234776.6/18

Left In: 301.967+/-0.133 $\chi^2$/NDF:94277.4/2

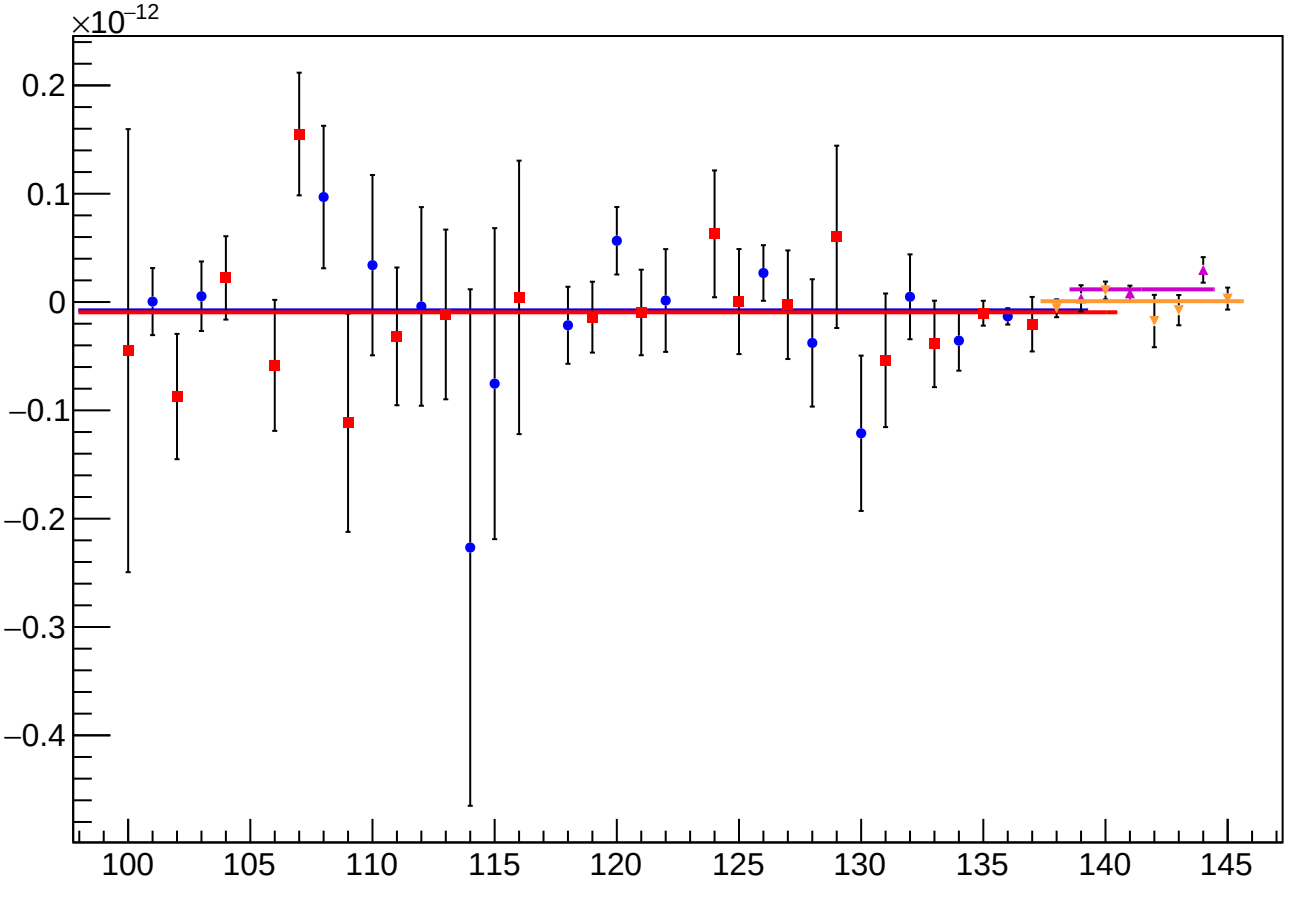
Left: 309.181+/-0.088 $\chi^2$/NDF: 156176.8/7

Right: 426.871+/-0.086 $\chi^2$/NDF: 4476610.3/34

In: 365.253+/-0.089 $\chi^2$/NDF:2725457.8/18

Out: 373.136+/-0.085 $\chi^2$/NDF:2824971.4/23

All: 369.371+/-0.061 $\chi^2$/NDF: 5554559.1/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.1/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.1/2

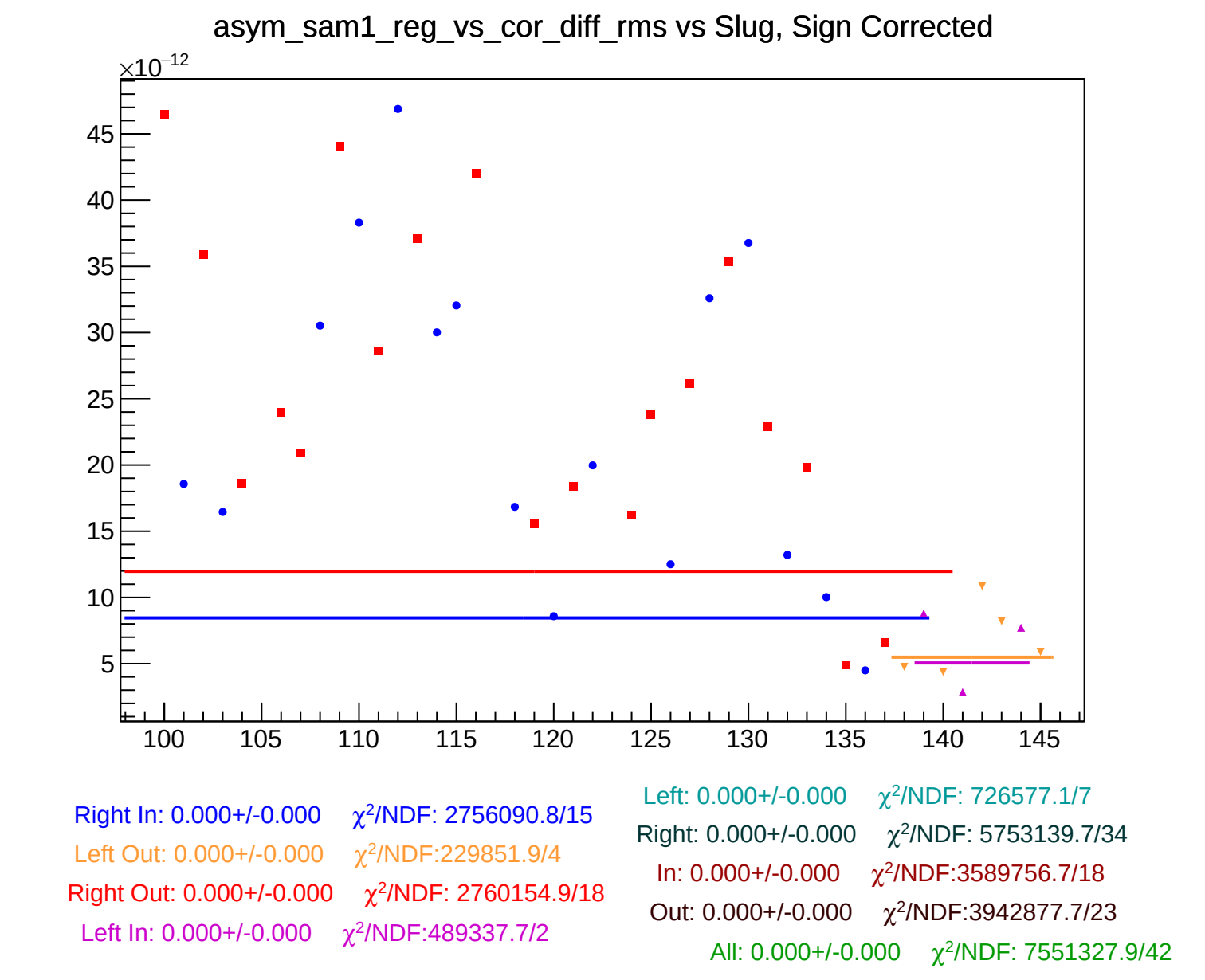
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.4/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:23.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 44.7/42


asym_sam1_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
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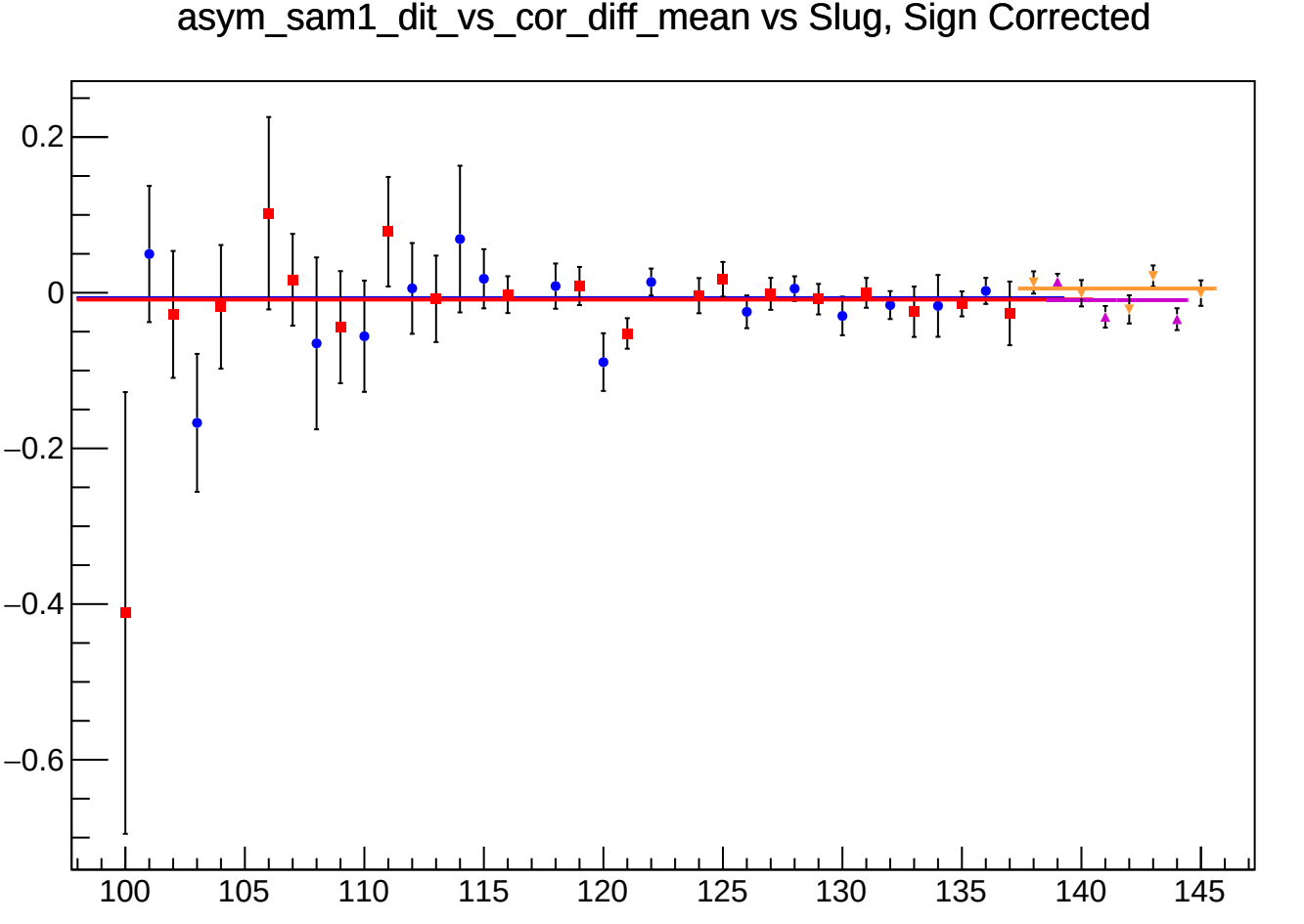
25
20
15
10
5
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2756090.8/15
Left Out: 0.000+/-0.000 χ²/NDF:229851.9/4
Right Out: 0.000+/-0.000 χ²/NDF: 2760154.9/18
Left In: 0.000+/-0.000 χ²/NDF:489337.7/2
Left: 0.000+/-0.000 χ²/NDF: 726577.1/7
Right: 0.000+/-0.000 χ²/NDF: 5753139.7/34
In: 0.000+/-0.000 χ²/NDF:3589756.7/18
Out: 0.000+/-0.000 χ²/NDF:3942877.7/23
All: 0.000+/-0.000 χ²/NDF: 7551327.9/42




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:4.1/4

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: -0.009+/-0.007 $\chi^2$/NDF:11.0/2

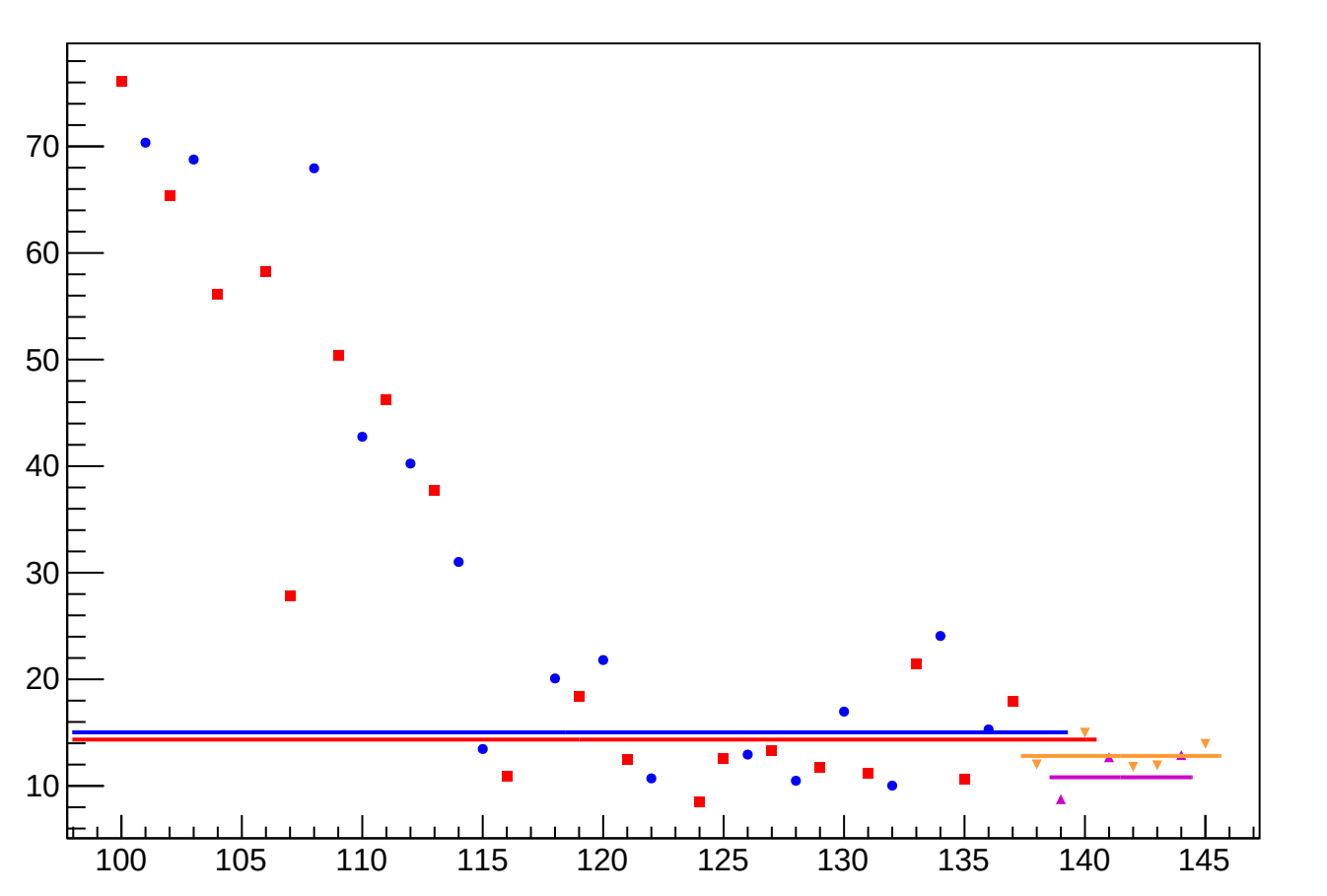
Left: -0.002+/-0.005 $\chi^2$/NDF: 17.4/7

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: -0.008+/-0.005 $\chi^2$/NDF:26.0/18

Out: -0.002+/-0.005 $\chi^2$/NDF:19.0/23

All: -0.005+/-0.003 $\chi^2$/NDF: 45.8/42




Right In: 15.026+/-0.005 $\chi^2$/NDF: 3438260.9/15

Left Out: 12.810+/-0.005 $\chi^2$/NDF:63687.7/4

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629014.9/18

Left In: 10.807+/-0.005 $\chi^2$/NDF:164095.9/2

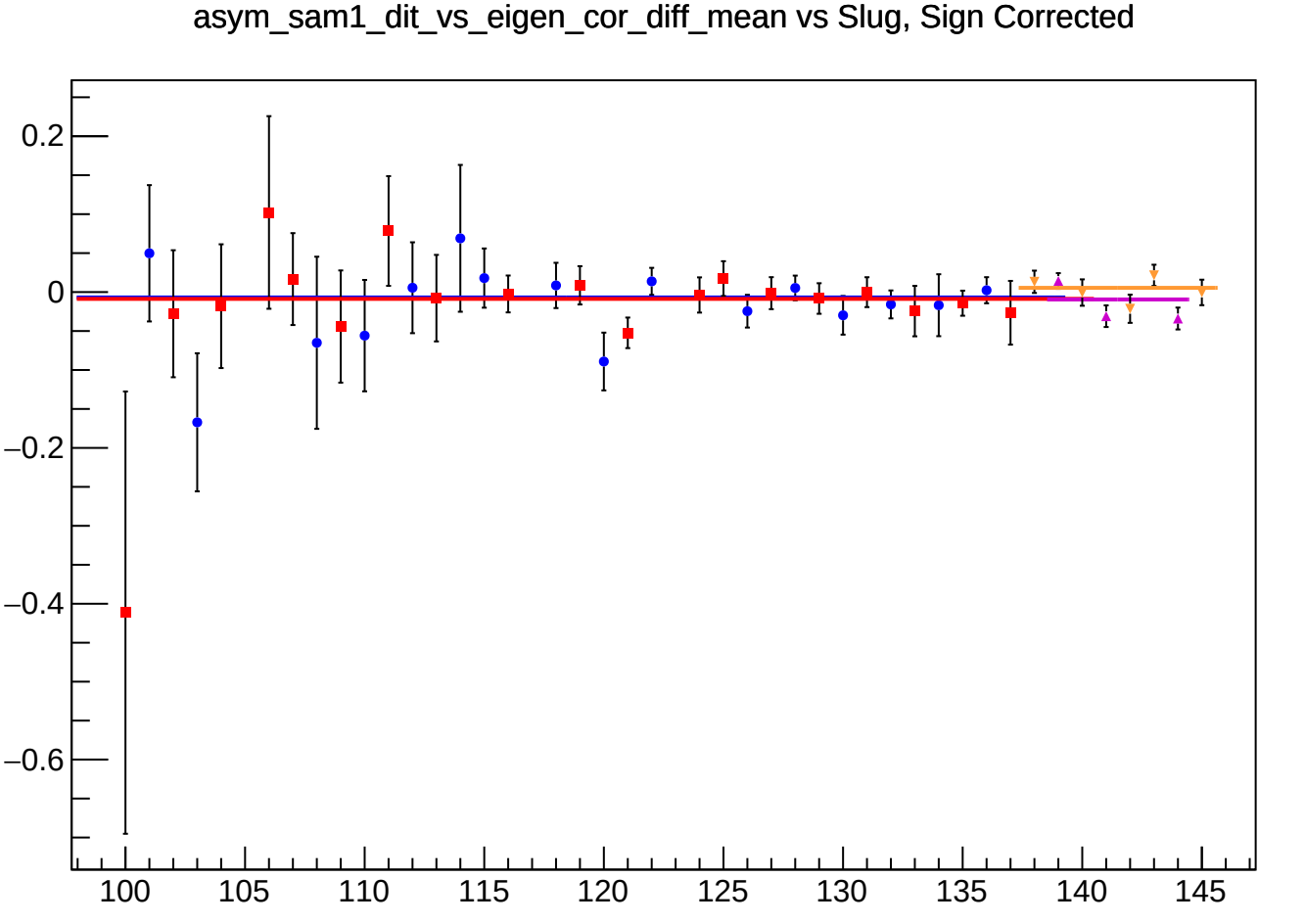
Left: 11.818+/-0.004 $\chi^2$/NDF: 309493.2/7

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077933.0/34

In: 13.011+/-0.003 $\chi^2$/NDF:3977393.0/18

Out: 13.647+/-0.003 $\chi^2$/NDF:3745610.1/23

All: 13.339+/-0.002 $\chi^2$/NDF: 7740638.1/42




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:4.1/4

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: -0.009+/-0.007 $\chi^2$/NDF:11.0/2

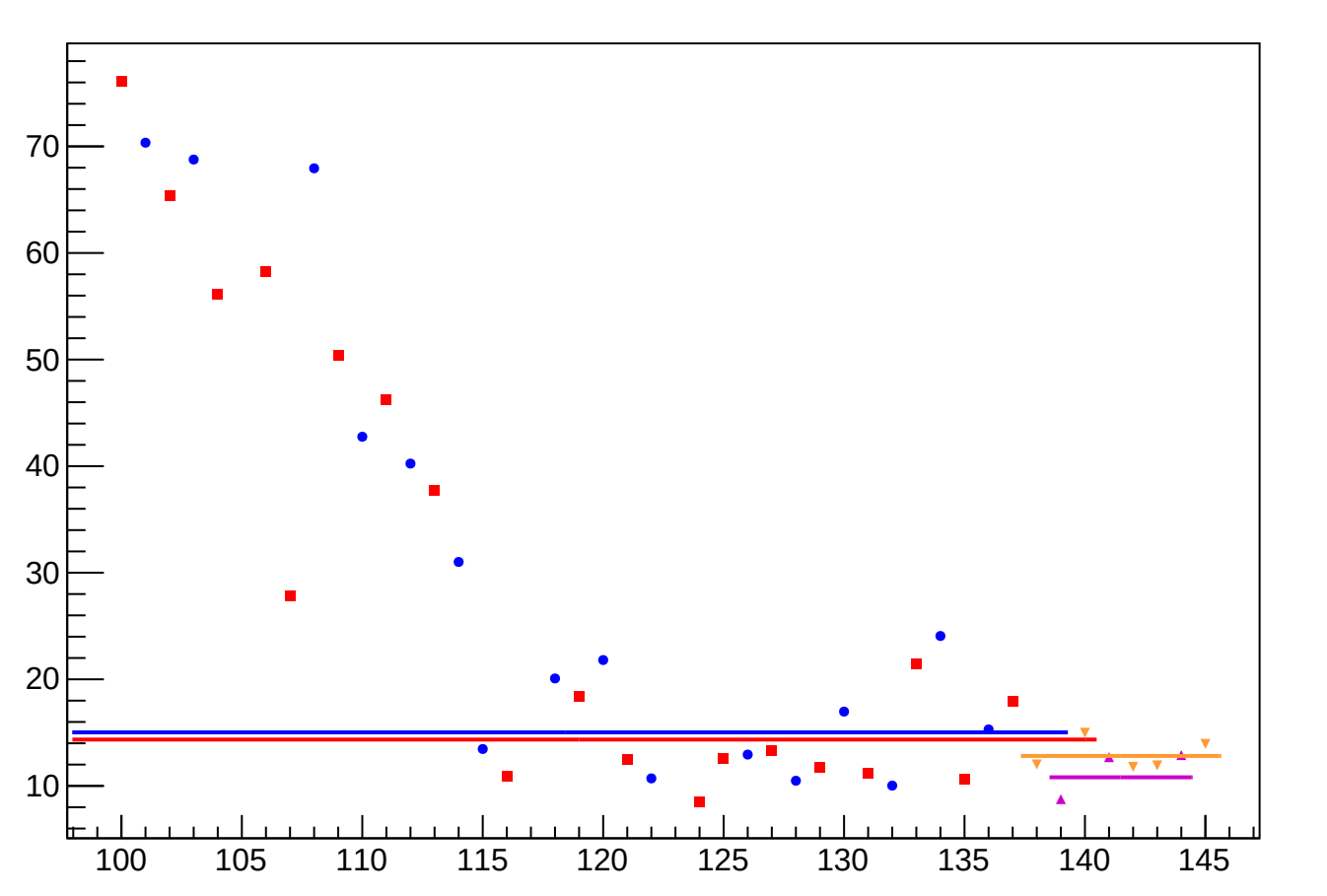
Left: -0.002+/-0.005 $\chi^2$/NDF: 17.4/7

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: -0.008+/-0.005 $\chi^2$/NDF:26.0/18

Out: -0.002+/-0.005 $\chi^2$/NDF:19.0/23

All: -0.005+/-0.003 $\chi^2$/NDF: 45.8/42




Right In: 15.026+/-0.005 $\chi^2$/NDF: 3438260.9/15

Left Out: 12.810+/-0.005 $\chi^2$/NDF:63687.7/4

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629014.9/18

Left In: 10.807+/-0.005 $\chi^2$/NDF:164095.9/2

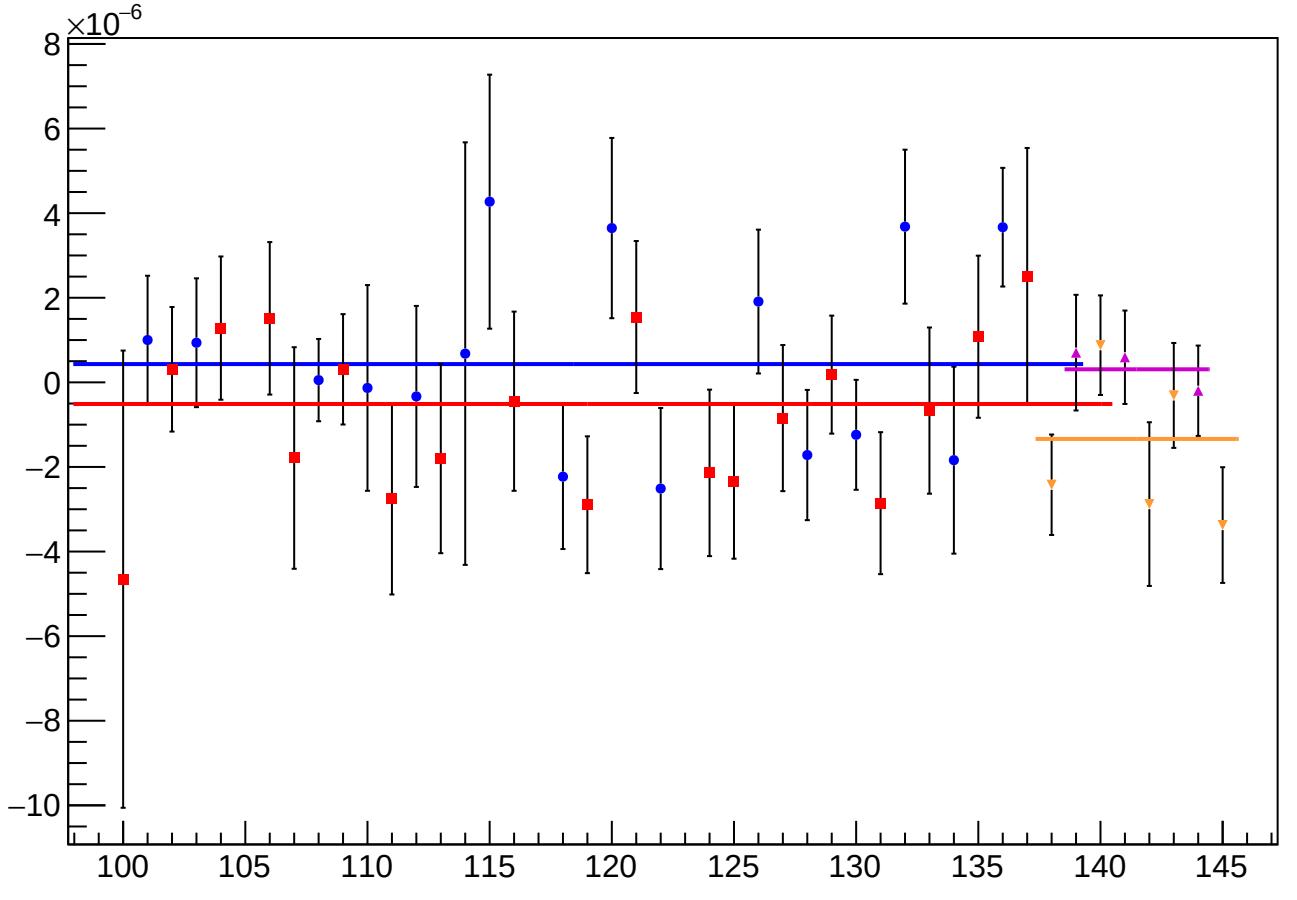
Left: 11.818+/-0.004 $\chi^2$/NDF: 309493.2/7

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077933.0/34

In: 13.011+/-0.003 $\chi^2$/NDF:3977393.0/18

Out: 13.647+/-0.003 $\chi^2$/NDF:3745610.1/23

All: 13.339+/-0.002 $\chi^2$/NDF: 7740638.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.9/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.4/2

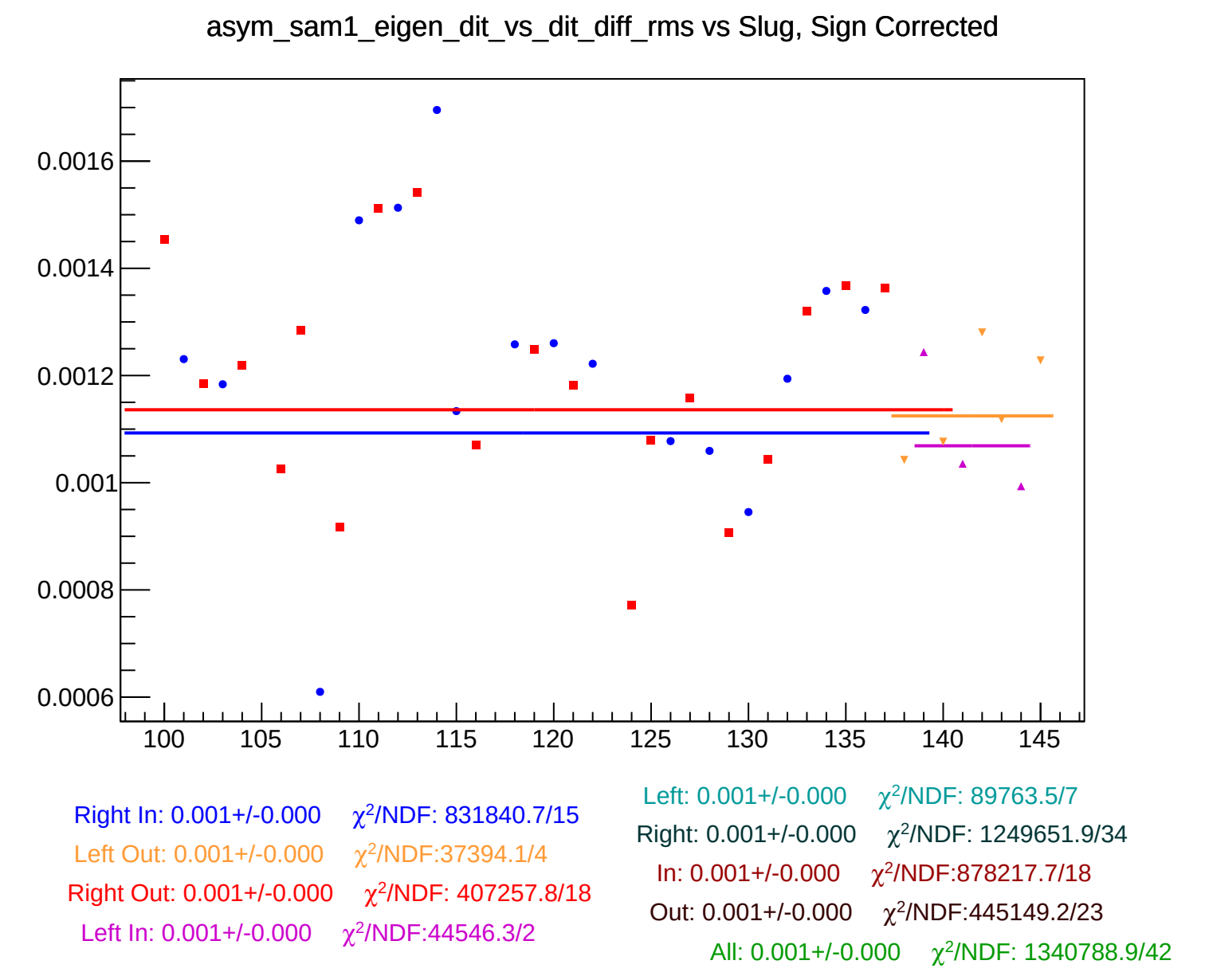
Left: -0.000+/-0.000 $\chi^2$/NDF: 11.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:23.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 52.9/42


asym_sam1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
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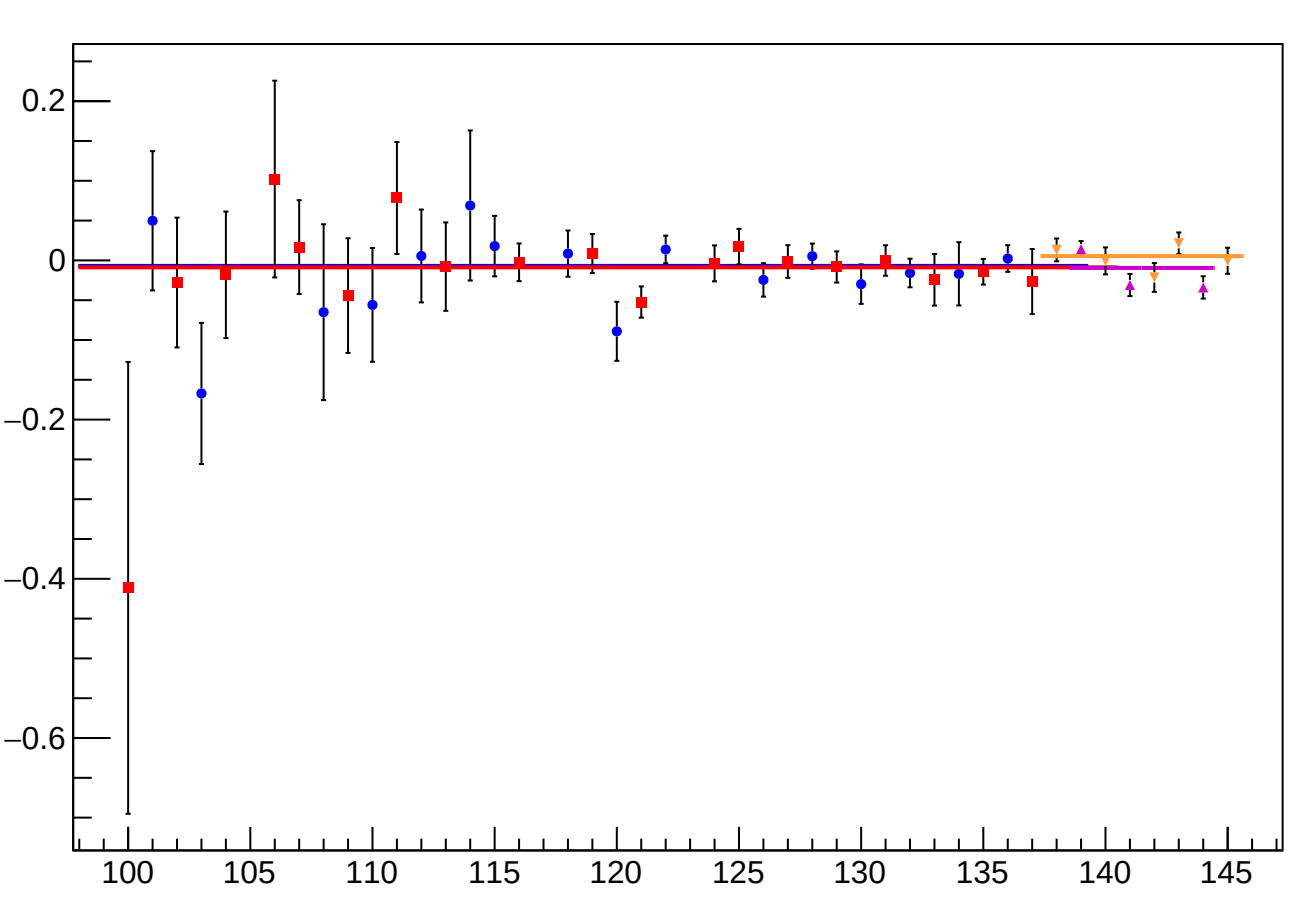
145
Right In: 0.001+/-0.000 χ²/NDF: 831840.7/15
Left Out: 0.001+/-0.000 χ²/NDF:37394.1/4
Right Out: 0.001+/-0.000 χ²/NDF: 407257.8/18
Left In: 0.001+/-0.000 χ²/NDF:44546.3/2
Left: 0.001+/-0.000 χ²/NDF: 89763.5/7
Right: 0.001+/-0.000 χ²/NDF: 1249651.9/34
In: 0.001+/-0.000 χ²/NDF:878217.7/18
Out: 0.001+/-0.000 χ²/NDF:445149.2/23
All: 0.001+/-0.000 χ²/NDF: 1340788.9/42




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:4.1/4

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: -0.009+/-0.007 $\chi^2$/NDF:11.0/2

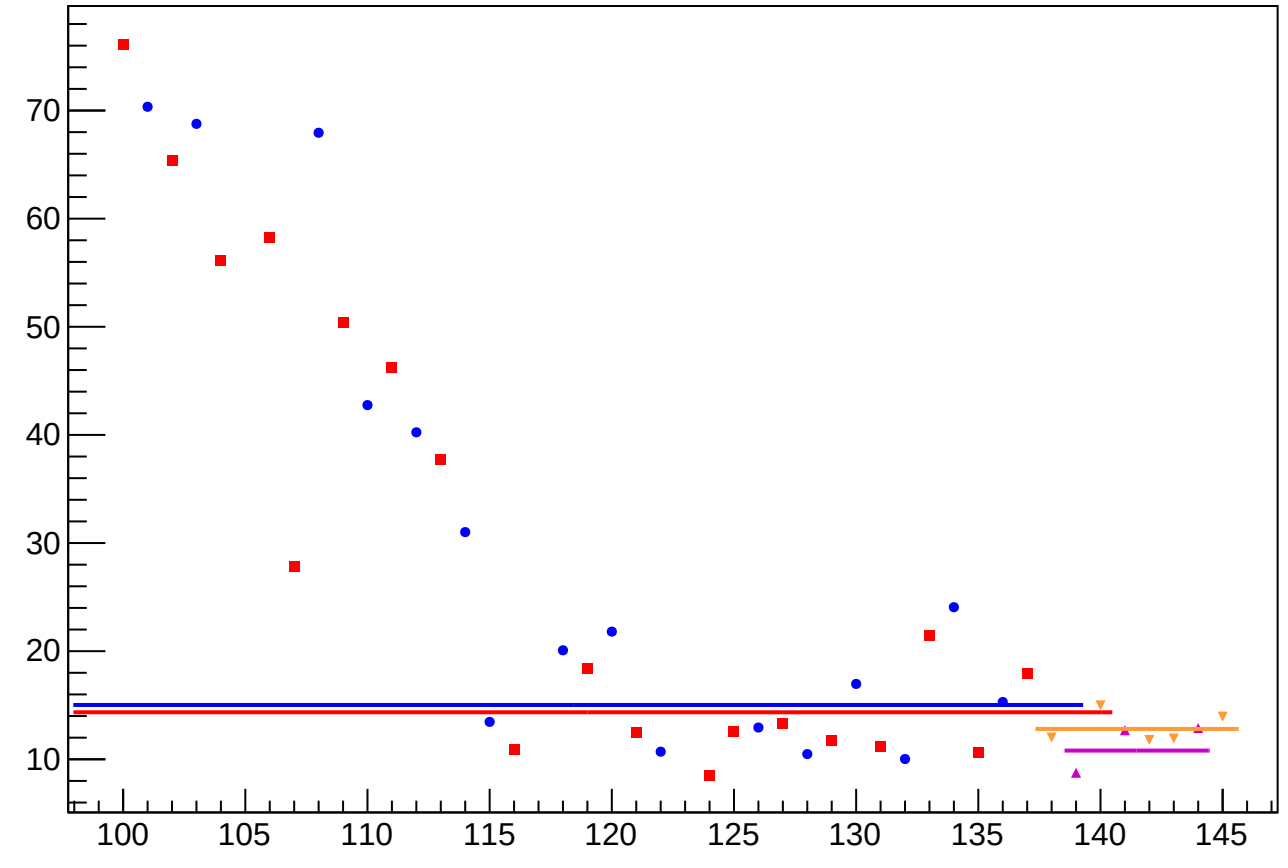
Left: -0.002+/-0.005 $\chi^2$/NDF: 17.4/7

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: -0.008+/-0.005 $\chi^2$/NDF:26.0/18

Out: -0.002+/-0.005 $\chi^2$/NDF:19.0/23

All: -0.005+/-0.003 $\chi^2$/NDF: 45.8/42




Right In: 15.025+/-0.005 $\chi^2$/NDF: 3438279.3/15

Left Out: 12.810+/-0.005 $\chi^2$/NDF:63688.0/4

Right Out: 14.348+/-0.005 $\chi^2$/NDF: 3629004.9/18

Left In: 10.807+/-0.005 $\chi^2$/NDF:164104.9/2

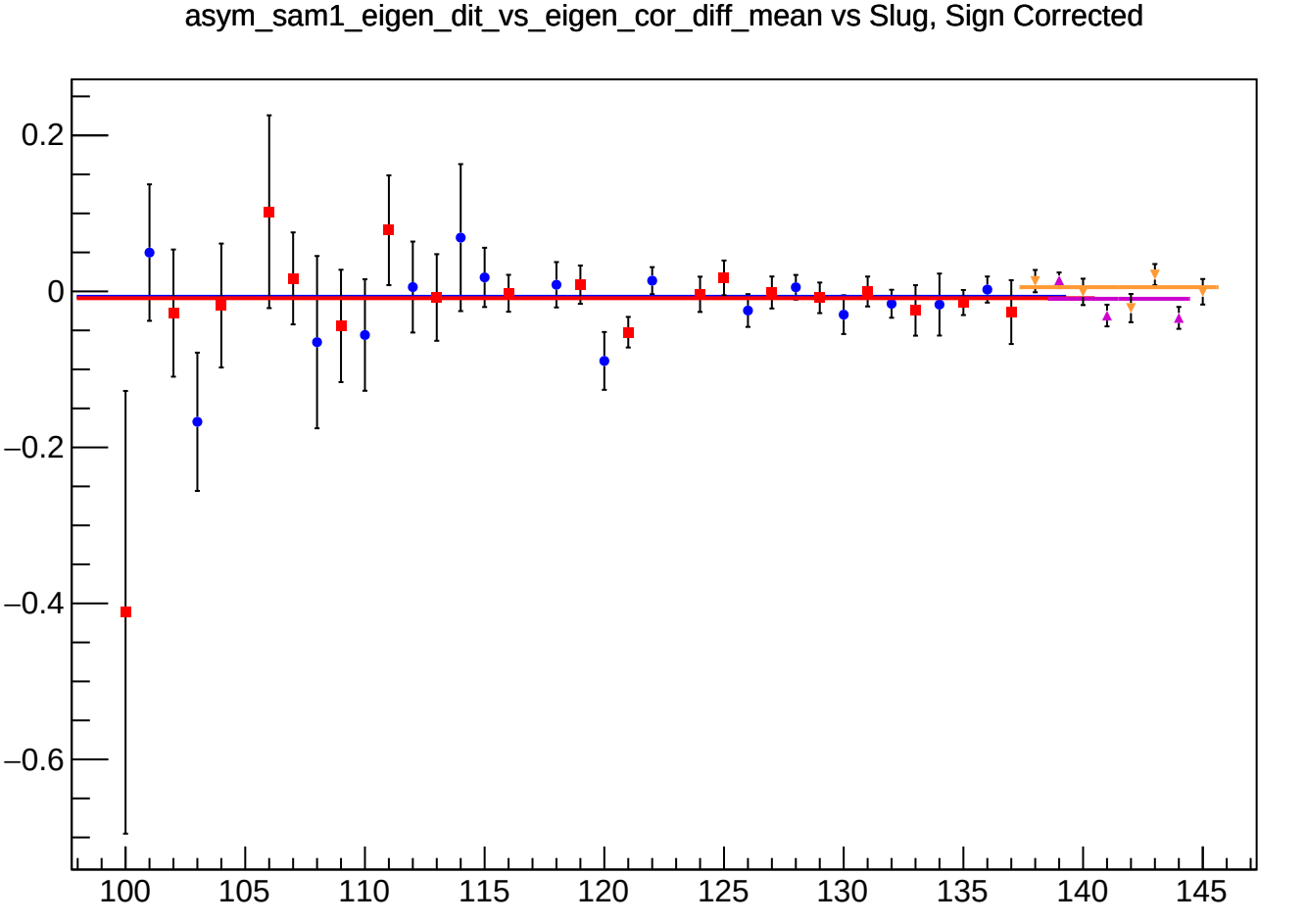
Left: 11.818+/-0.004 $\chi^2$/NDF: 309509.6/7

Right: 14.669+/-0.003 $\chi^2$/NDF: 7077938.8/34

In: 13.011+/-0.003 $\chi^2$/NDF:3977399.1/18

Out: 13.647+/-0.003 $\chi^2$/NDF:3745590.7/23

All: 13.339+/-0.002 $\chi^2$/NDF: 7740629.3/42




Right In: -0.007+/-0.007 $\chi^2$/NDF: 14.9/15

Left Out: 0.005+/-0.007 $\chi^2$/NDF:4.1/4

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 12.6/18

Left In: -0.009+/-0.007 $\chi^2$/NDF:11.0/2

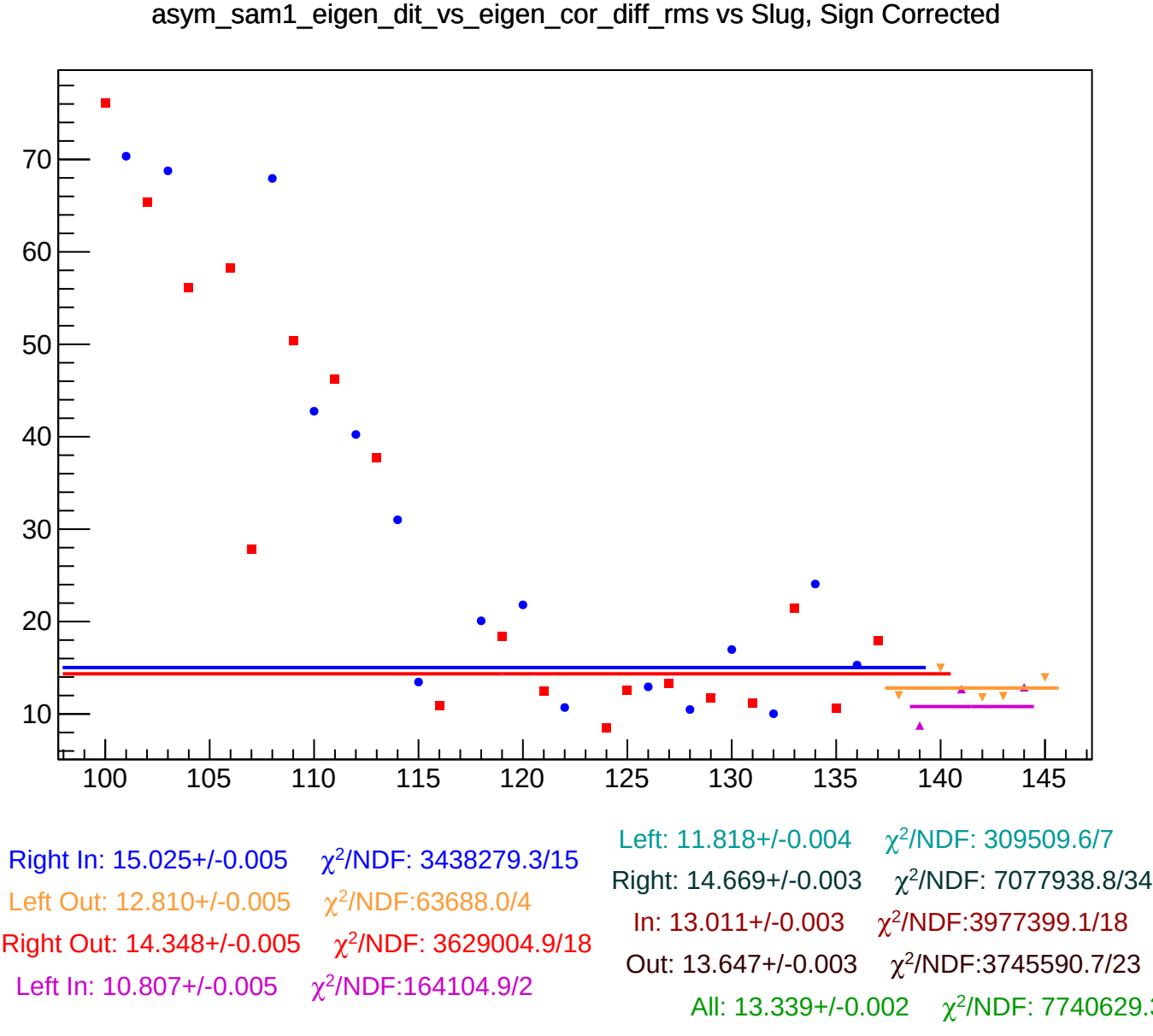
Left: -0.002+/-0.005 $\chi^2$/NDF: 17.4/7

Right: -0.008+/-0.005 $\chi^2$/NDF: 27.6/34

In: -0.008+/-0.005 $\chi^2$/NDF:26.0/18

Out: -0.002+/-0.005 $\chi^2$/NDF:19.0/23

All: -0.005+/-0.003 $\chi^2$/NDF: 45.8/42


asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
70
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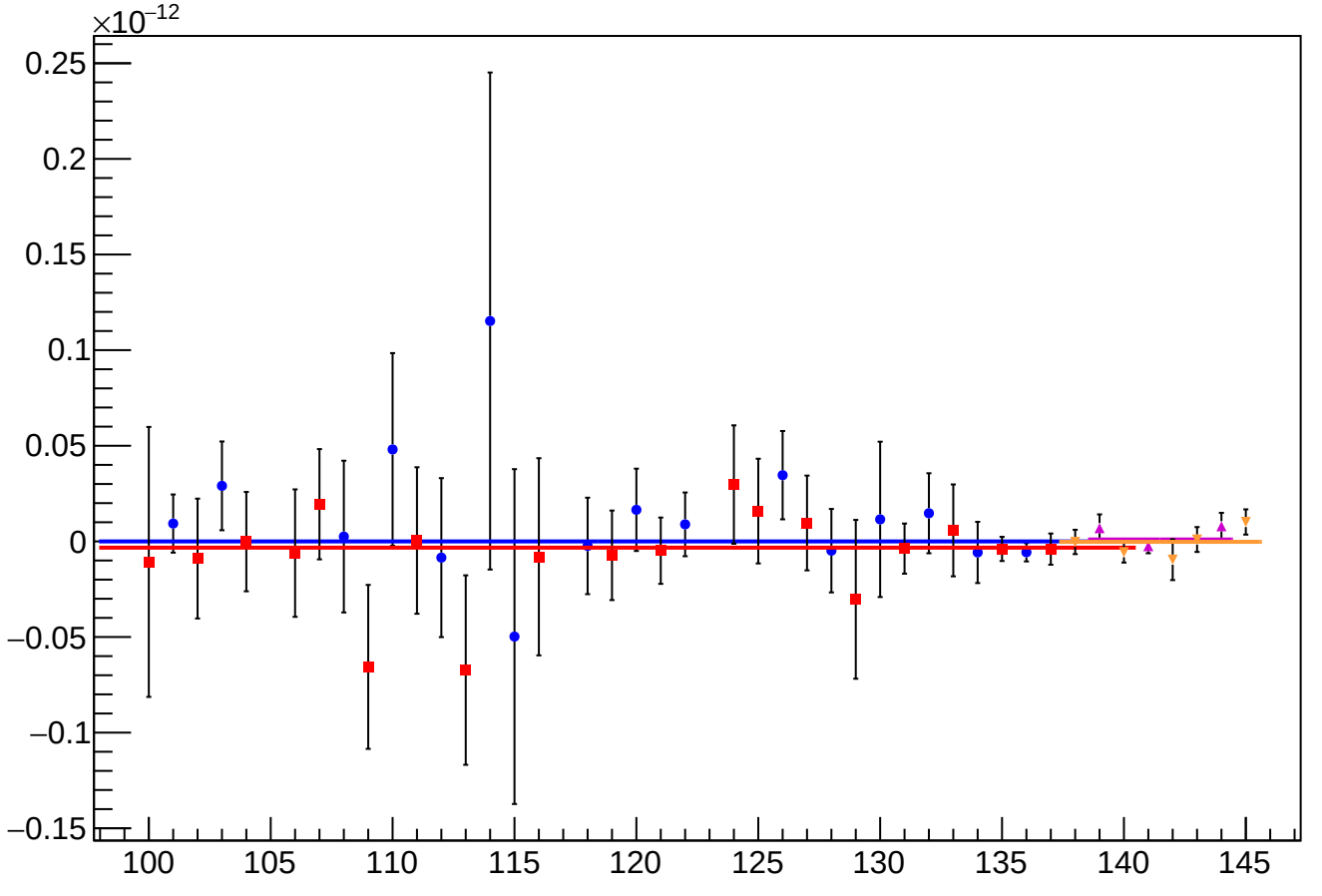
145
Right In: 15.025+/-0.005 χ²/NDF: 3438279.3/15
Left Out: 12.810+/-0.005 χ²/NDF:63688.0/4
Right Out: 14.348+/-0.005 χ²/NDF: 3629004.9/18
Left In: 10.807+/-0.005 χ²/NDF:164104.9/2
Left: 11.818+/-0.004 χ²/NDF: 309509.6/7
Right: 14.669+/-0.003 χ²/NDF: 7077938.8/34
In: 13.011+/-0.003 χ²/NDF:3977399.1/18
Out: 13.647+/-0.003 χ²/NDF:3745590.7/23
All: 13.339+/-0.002 χ²/NDF: 7740629.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.3/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 7.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.5/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 6.9/7

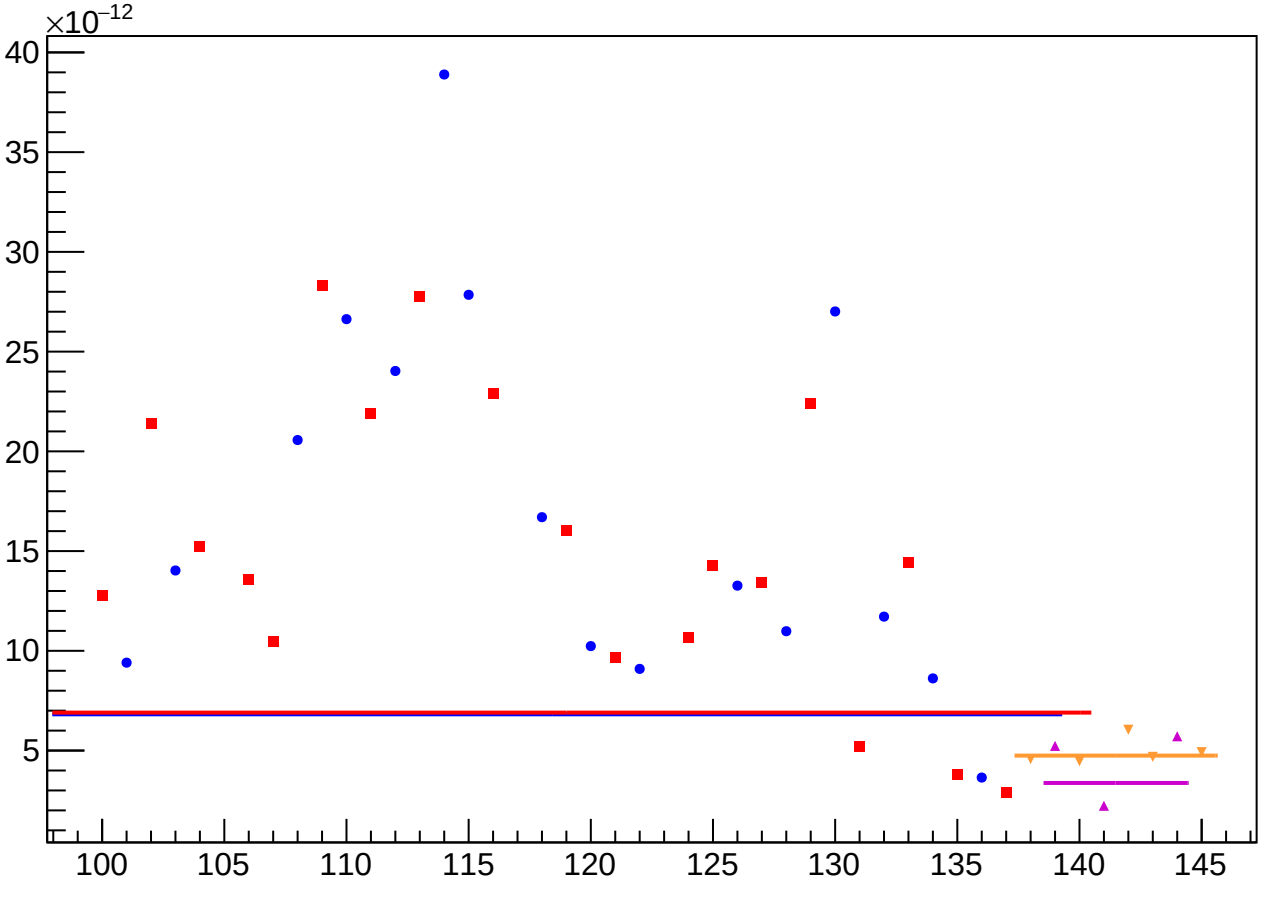
Right: -0.000+/-0.000 $\chi^2$/NDF: 16.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:11.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:11.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 23.9/42

asym_sam1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3511411.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:37795.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4241227.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:545818.4/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 796628.4/7

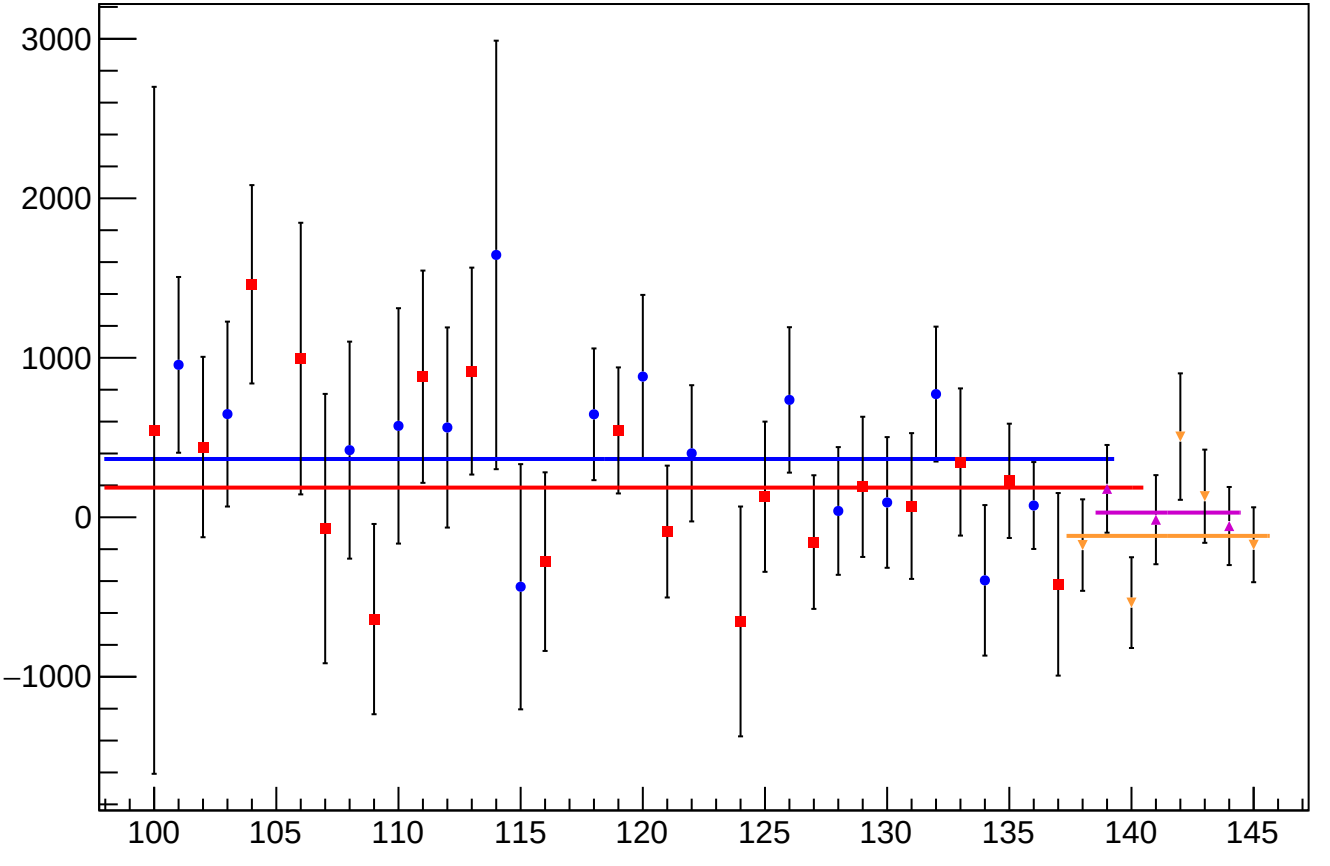
Right: 0.000+/-0.000 $\chi^2$/NDF: 7753131.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5075745.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4660544.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9860728.6/42

# reg_asym_sam2_mean vs Slug, Sign Corrected




Right In: 365.540+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -116.641+/-128.350 $\chi^2$/NDF:5.4/4

Right Out: 186.141+/-120.188 $\chi^2$/NDF: 15.0/18

Left In: 29.351+/-153.001 $\chi^2$/NDF:0.4/2

Left: -56.339+/-98.332 $\chi^2$/NDF: 6.4/7

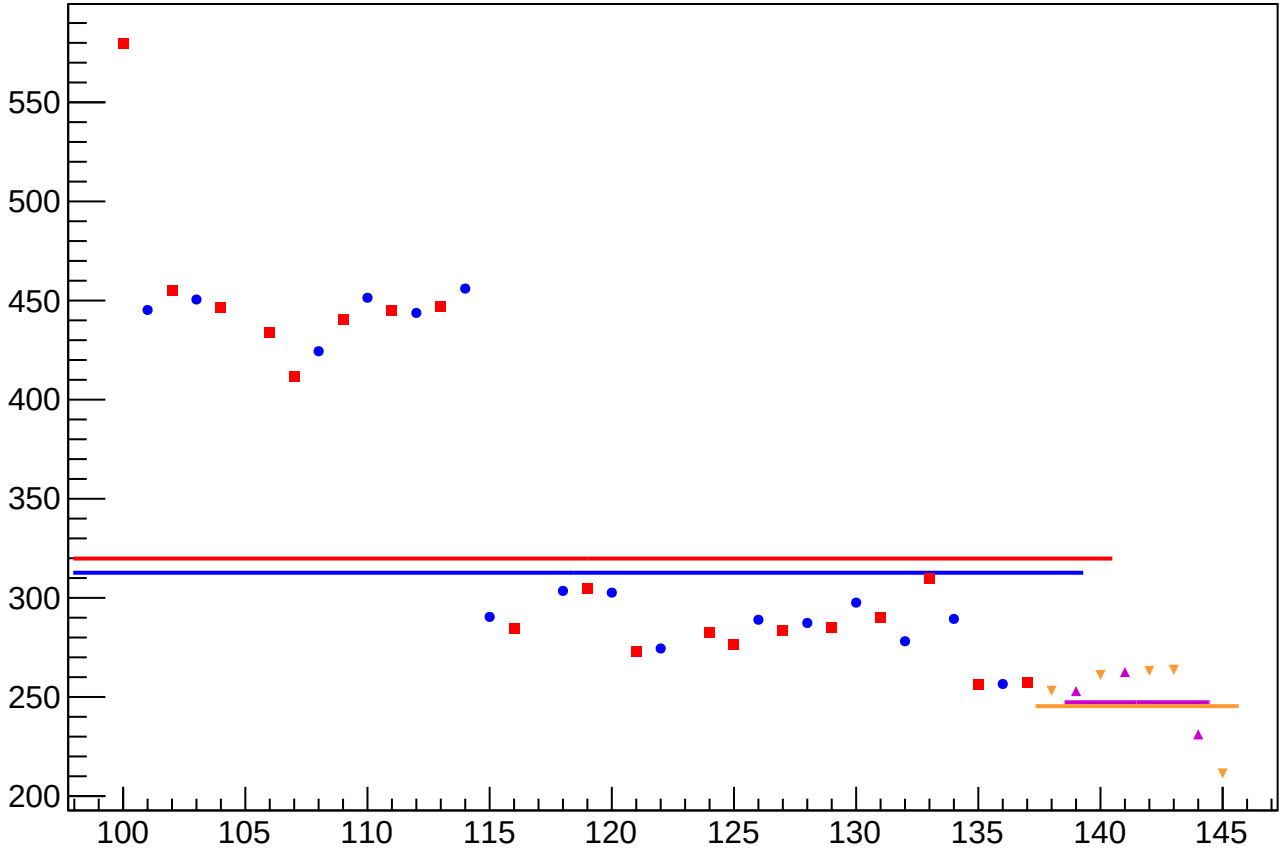
Right: 276.827+/-84.517 $\chi^2$/NDF: 27.6/34

In: 238.992+/-93.871 $\chi^2$/NDF:14.9/18

Out: 44.683+/-87.729 $\chi^2$/NDF:23.4/23

All: 135.274+/-64.095 $\chi^2$/NDF: 40.6/42

# reg_asym_sam2_rms vs Slug, Sign Corrected




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602207.7/15

Left Out: 245.379+/-0.091 $\chi^2$/NDF:61245.7/4

Right Out: 319.841+/-0.085 $\chi^2$/NDF: 697878.1/18

Left In: 247.337+/-0.108 $\chi^2$/NDF:15562.3/2

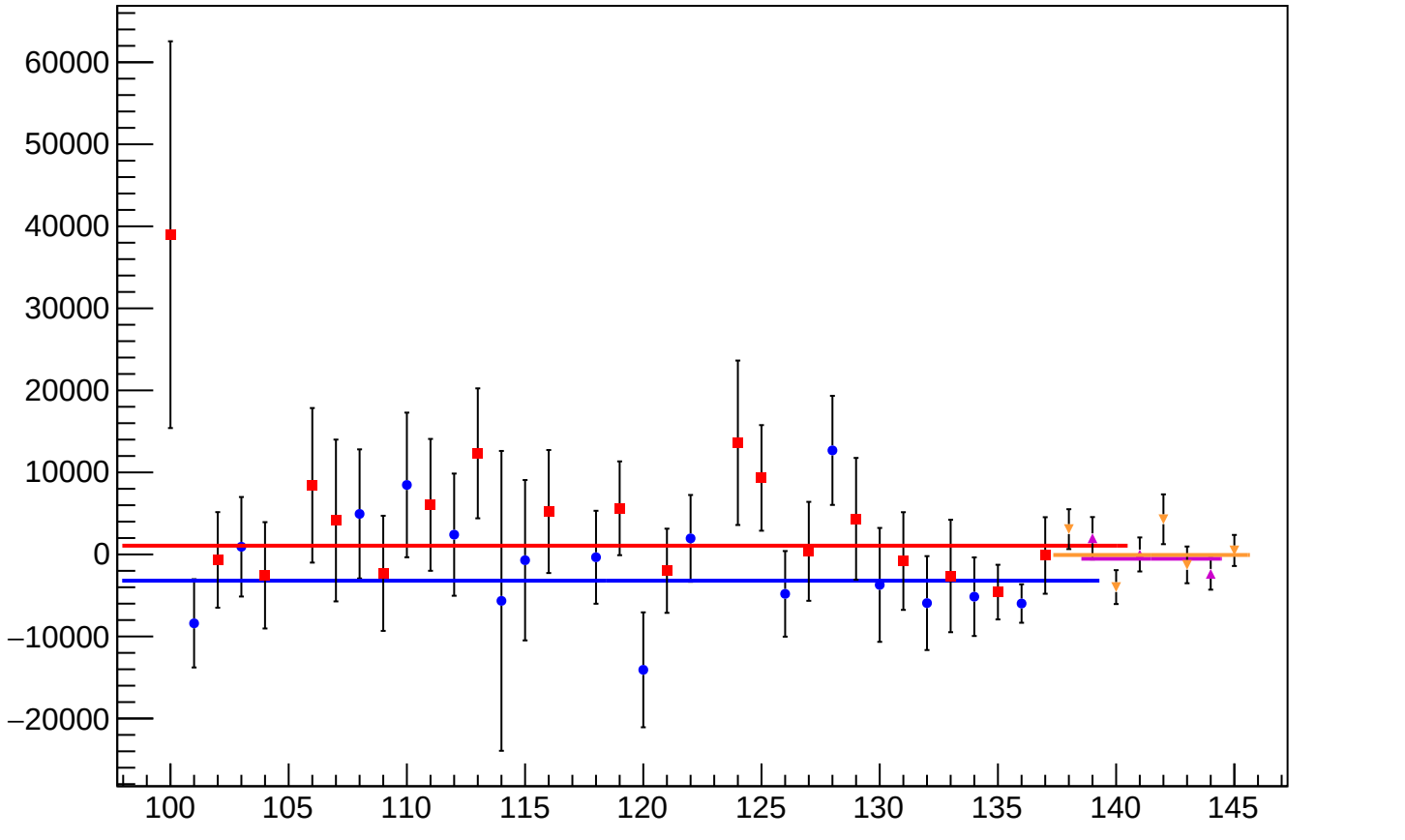
Left: 246.188+/-0.070 $\chi^2$/NDF: 77000.1/7

Right: 316.222+/-0.060 $\chi^2$/NDF: 1303671.7/34

In: 288.085+/-0.066 $\chi^2$/NDF:845266.2/18

Out: 285.053+/-0.062 $\chi^2$/NDF:1117771.9/23

All: 286.467+/-0.045 $\chi^2$/NDF: 1964152.2/42




Right In: -3198.742+/-1353.814 $\chi^2$/NDF: 16.1/15

Left Out: -65.899+/-1004.766 $\chi^2$/NDF:7.7/4

Right Out: 1065.939+/-1443.326 $\chi^2$/NDF: 14.4/18

Left In: -521.881+/-1239.719 $\chi^2$/NDF:1.9/2

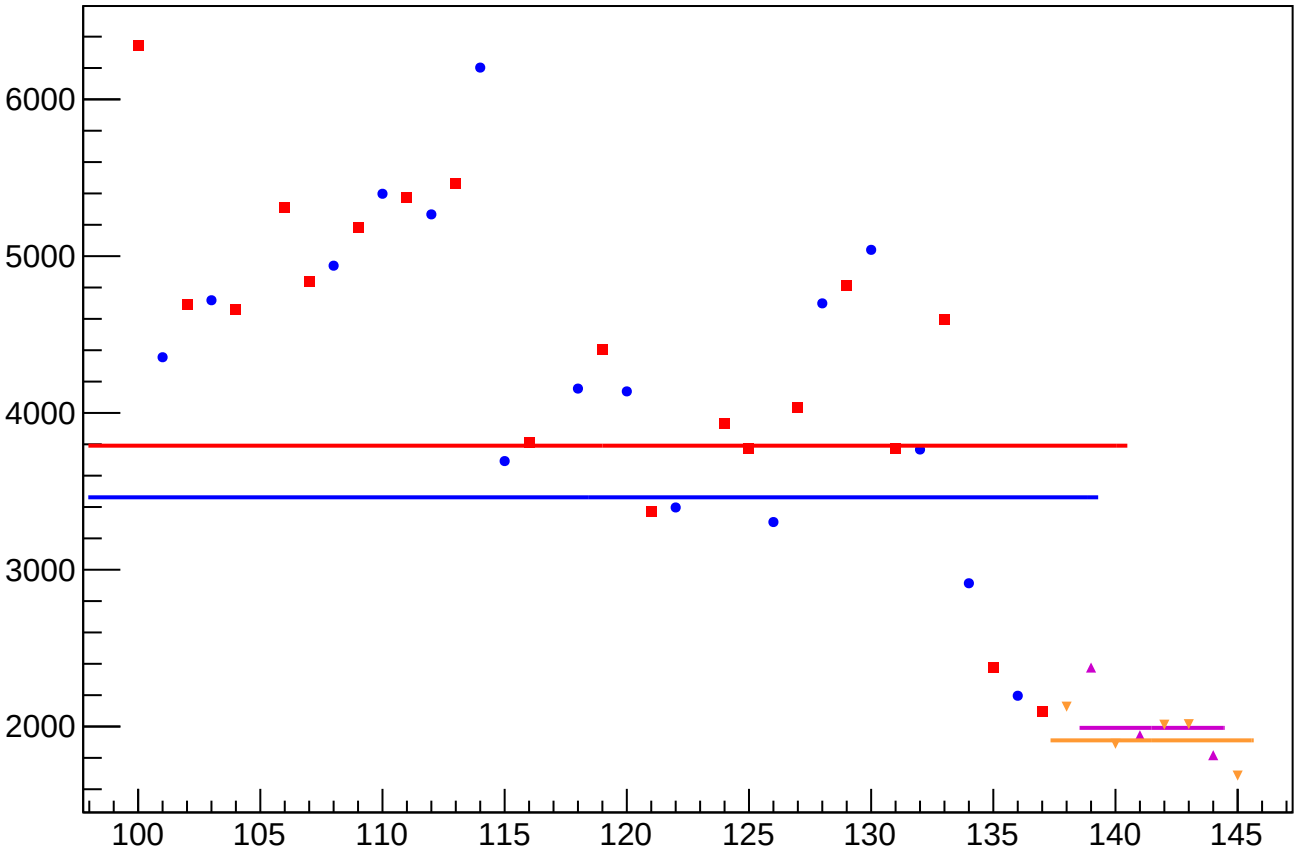
Left: -246.675+/-780.585 $\chi^2$/NDF: 9.7/7

Right: -1202.738+/-987.420 $\chi^2$/NDF: 35.1/34

In: -1742.779+/-914.293 $\chi^2$/NDF:20.1/18

Out: 303.563+/-824.627 $\chi^2$/NDF:22.5/23

All: -614.369+/-612.353 $\chi^2$/NDF: 45.4/42




Right In: 3461.927+/-0.957 $\chi^2$/NDF: 1309580.1/15

Left Out: 1911.728+/-0.710 $\chi^2$/NDF:50410.1/4

Right Out: 3791.207+/-1.021 $\chi^2$/NDF: 1155755.9/18

Left In: 1991.455+/-0.877 $\chi^2$/NDF:61681.2/2

Left: 1943.336+/-0.552 $\chi^2$/NDF: 117083.6/7

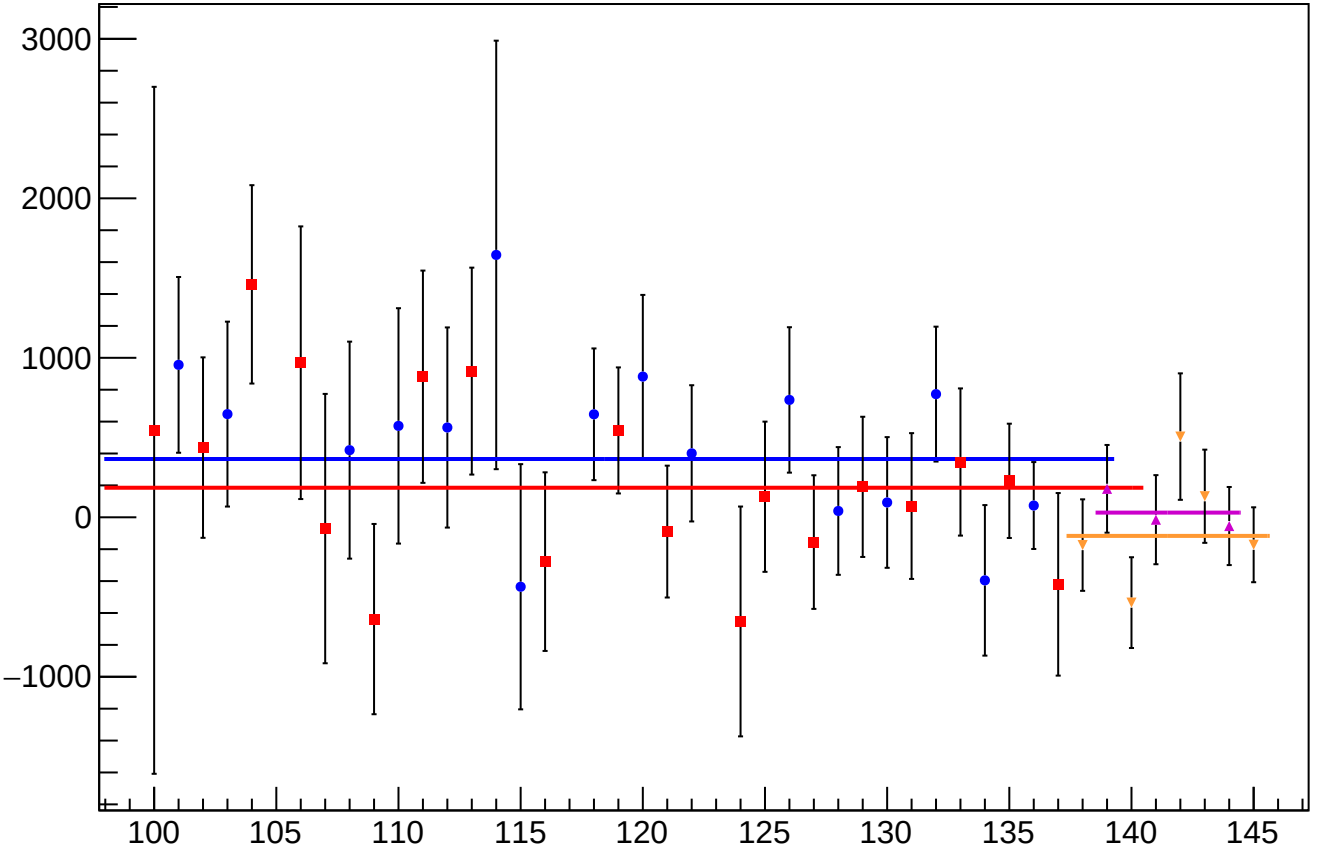
Right: 3616.041+/-0.698 $\chi^2$/NDF: 2520711.5/34

In: 2662.127+/-0.647 $\chi^2$/NDF:2654627.3/18

Out: 2525.240+/-0.583 $\chi^2$/NDF:3490507.5/23

All: 2586.644+/-0.433 $\chi^2$/NDF: 6169856.1/42

# cor_asym_sam2_mean vs Slug, Sign Corrected




Right In: 365.523+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -116.644+/-128.350 $\chi^2$/NDF:5.4/4

Right Out: 185.331+/-120.199 $\chi^2$/NDF: 14.9/18

Left In: 29.377+/-153.001 $\chi^2$/NDF:0.4/2

Left: -56.330+/-98.332 $\chi^2$/NDF: 6.4/7

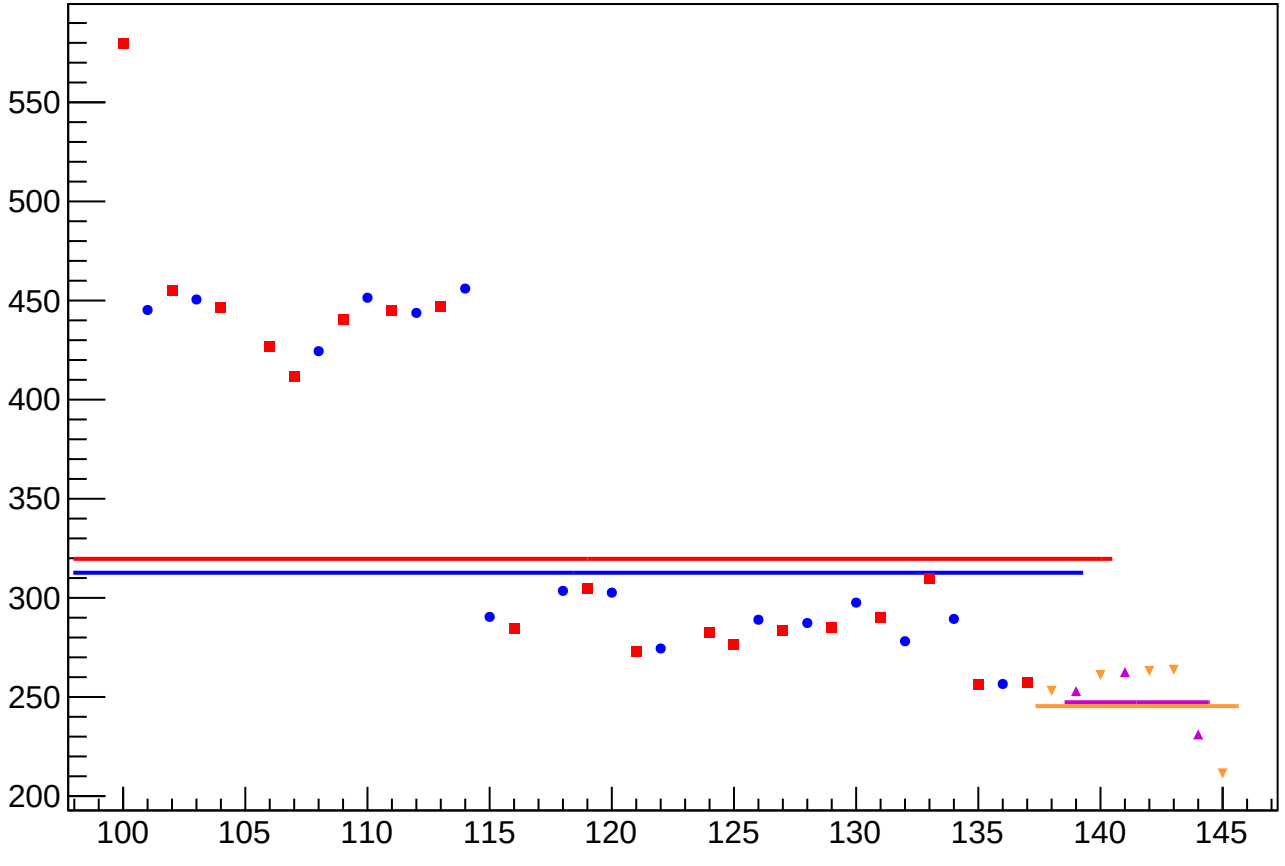
Right: 276.426+/-84.521 $\chi^2$/NDF: 27.6/34

In: 238.991+/-93.871 $\chi^2$/NDF:14.9/18

Out: 44.236+/-87.734 $\chi^2$/NDF:23.3/23

All: 135.040+/-64.097 $\chi^2$/NDF: 40.6/42

# cor_asym_sam2_rms vs Slug, Sign Corrected




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602209.1/15

Left Out: 245.379+/-0.091 $\chi^2$/NDF:61245.7/4

Right Out: 319.693+/-0.085 $\chi^2$/NDF: 693714.1/18

Left In: 247.337+/-0.108 $\chi^2$/NDF:15562.3/2

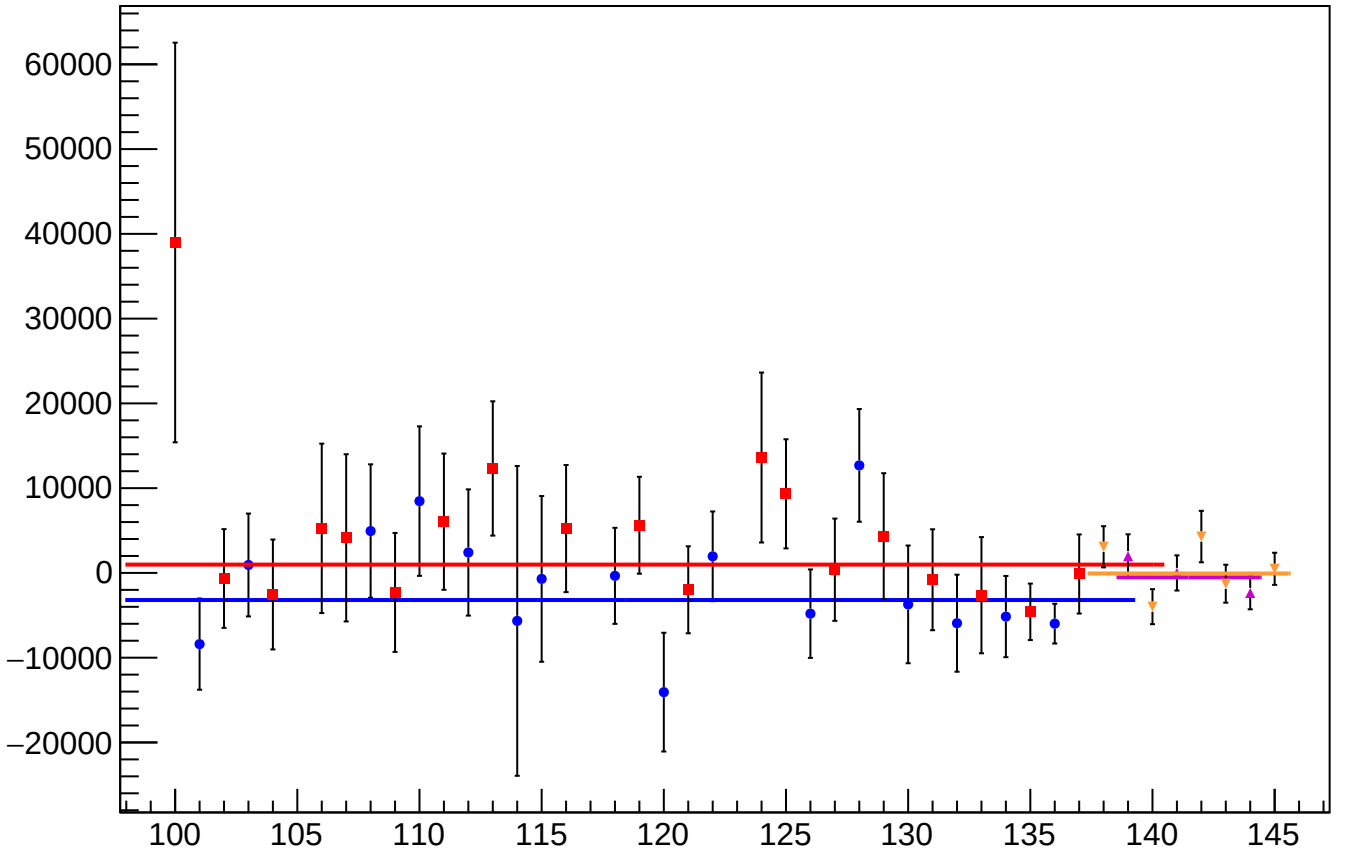
Left: 246.188+/-0.070 $\chi^2$/NDF: 77000.1/7

Right: 316.149+/-0.060 $\chi^2$/NDF: 1299362.0/34

In: 288.085+/-0.066 $\chi^2$/NDF:845267.8/18

Out: 284.970+/-0.062 $\chi^2$/NDF:1112151.5/23

All: 286.423+/-0.045 $\chi^2$/NDF: 1958594.6/42




Right In: -3198.673+/-1353.816 $\chi^2$/NDF: 16.1/15

Left Out: -65.899+/-1004.766 $\chi^2$/NDF:7.7/4

Right Out: 980.937+/-1445.265 $\chi^2$/NDF: 14.0/18

Left In: -521.827+/-1239.719 $\chi^2$/NDF:1.9/2

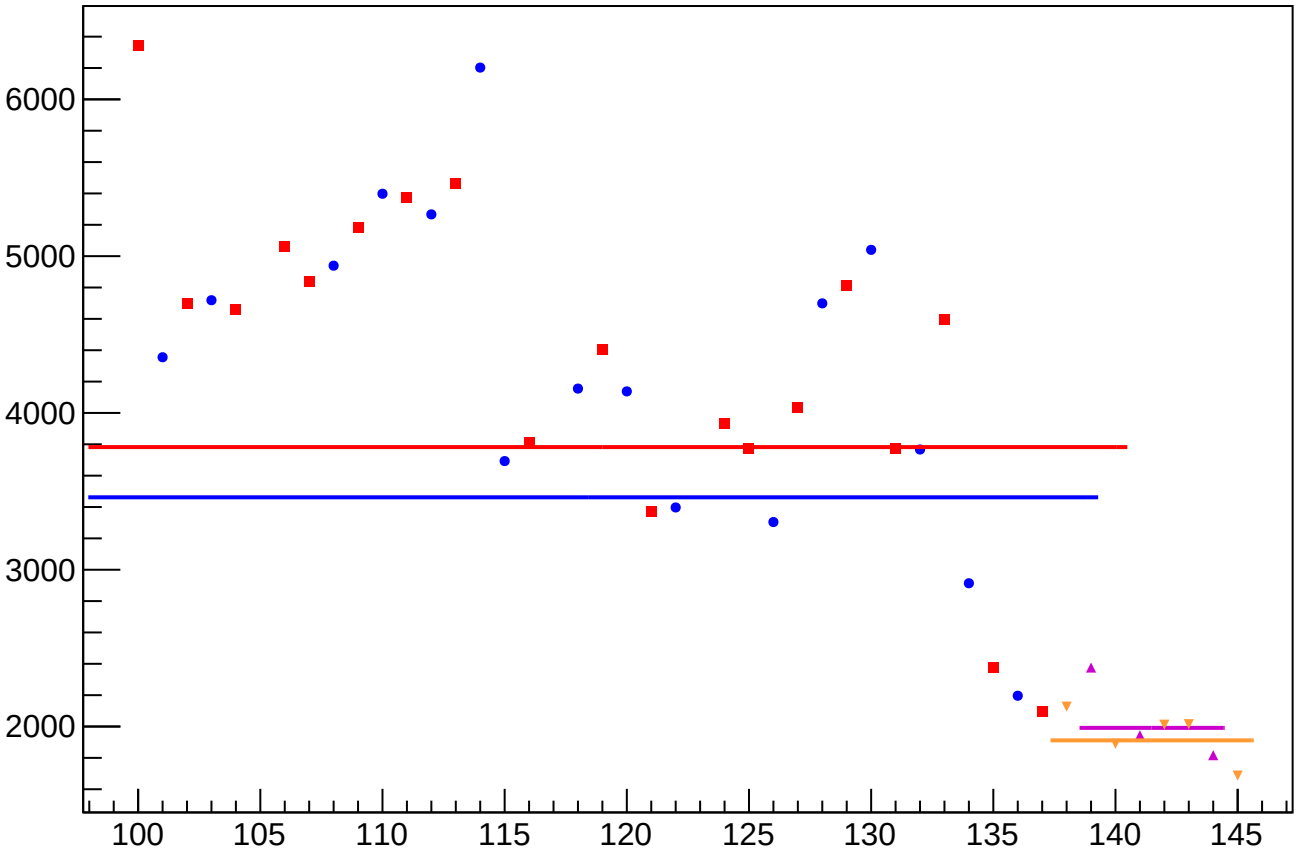
Left: -246.654+/-780.585 $\chi^2$/NDF: 9.7/7

Right: -1245.274+/-988.041 $\chi^2$/NDF: 34.5/34

In: -1742.715+/-914.294 $\chi^2$/NDF:20.1/18

Out: 275.199+/-824.988 $\chi^2$/NDF:22.0/23

All: -630.417+/-612.501 $\chi^2$/NDF: 44.8/42




Right In: 3461.932+/-0.957 $\chi^2$/NDF: 1309596.2/15

Left Out: 1911.727+/-0.710 $\chi^2$/NDF:50410.9/4

Right Out: 3782.176+/-1.022 $\chi^2$/NDF: 1136342.8/18

Left In: 1991.455+/-0.877 $\chi^2$/NDF:61681.4/2

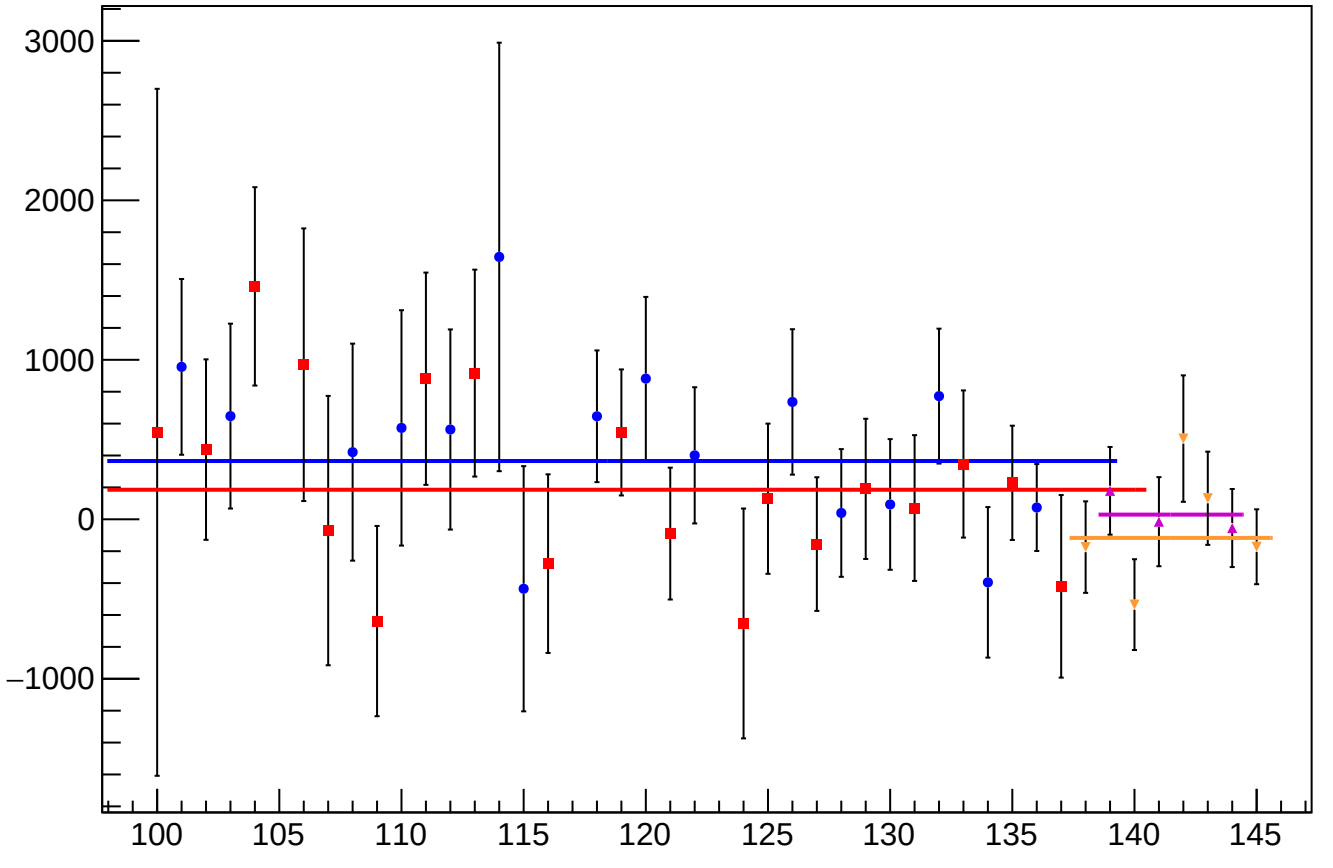
Left: 1943.336+/-0.552 $\chi^2$/NDF: 117084.7/7

Right: 3611.602+/-0.699 $\chi^2$/NDF: 2498242.4/34

In: 2662.128+/-0.647 $\chi^2$/NDF:2654648.2/18

Out: 2521.188+/-0.583 $\chi^2$/NDF:3445107.4/23

All: 2584.440+/-0.433 $\chi^2$/NDF: 6125952.0/42




Right In: 365.523+/-118.873 $\chi^2$/NDF: 11.5/15

Left Out: -116.644+/-128.350 $\chi^2$/NDF:5.4/4

Right Out: 185.331+/-120.199 $\chi^2$/NDF: 14.9/18

Left In: 29.377+/-153.001 $\chi^2$/NDF:0.4/2

Left: -56.330+/-98.332 $\chi^2$/NDF: 6.4/7

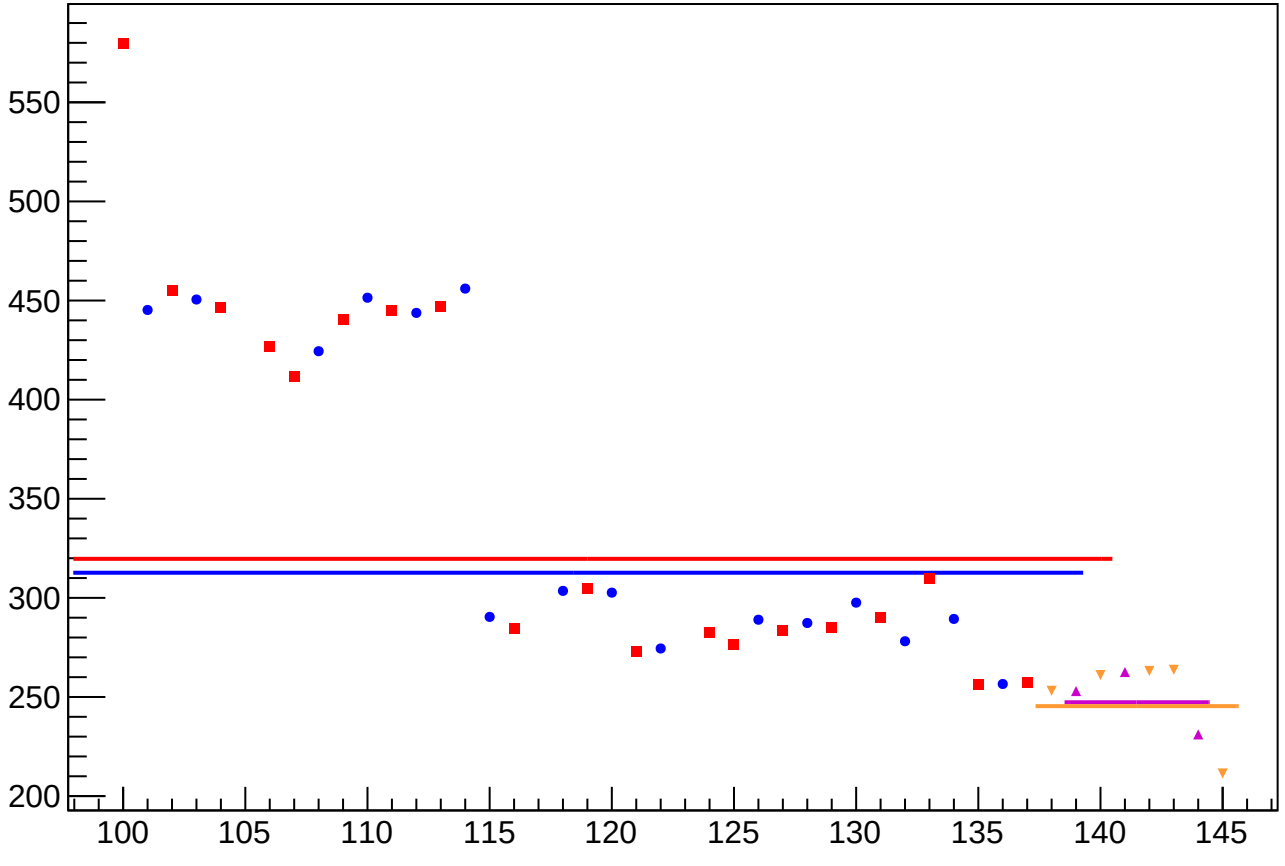
Right: 276.426+/-84.521 $\chi^2$/NDF: 27.6/34

In: 238.991+/-93.871 $\chi^2$/NDF:14.9/18

Out: 44.236+/-87.734 $\chi^2$/NDF:23.3/23

All: 135.040+/-64.097 $\chi^2$/NDF: 40.6/42

# eigen_cor_asym_sam2_rms vs Slug, Sign Corrected




Right In: 312.683+/-0.084 $\chi^2$/NDF: 602209.1/15

Left Out: 245.379+/-0.091 $\chi^2$/NDF:61245.7/4

Right Out: 319.693+/-0.085 $\chi^2$/NDF: 693714.1/18

Left In: 247.337+/-0.108 $\chi^2$/NDF:15562.3/2

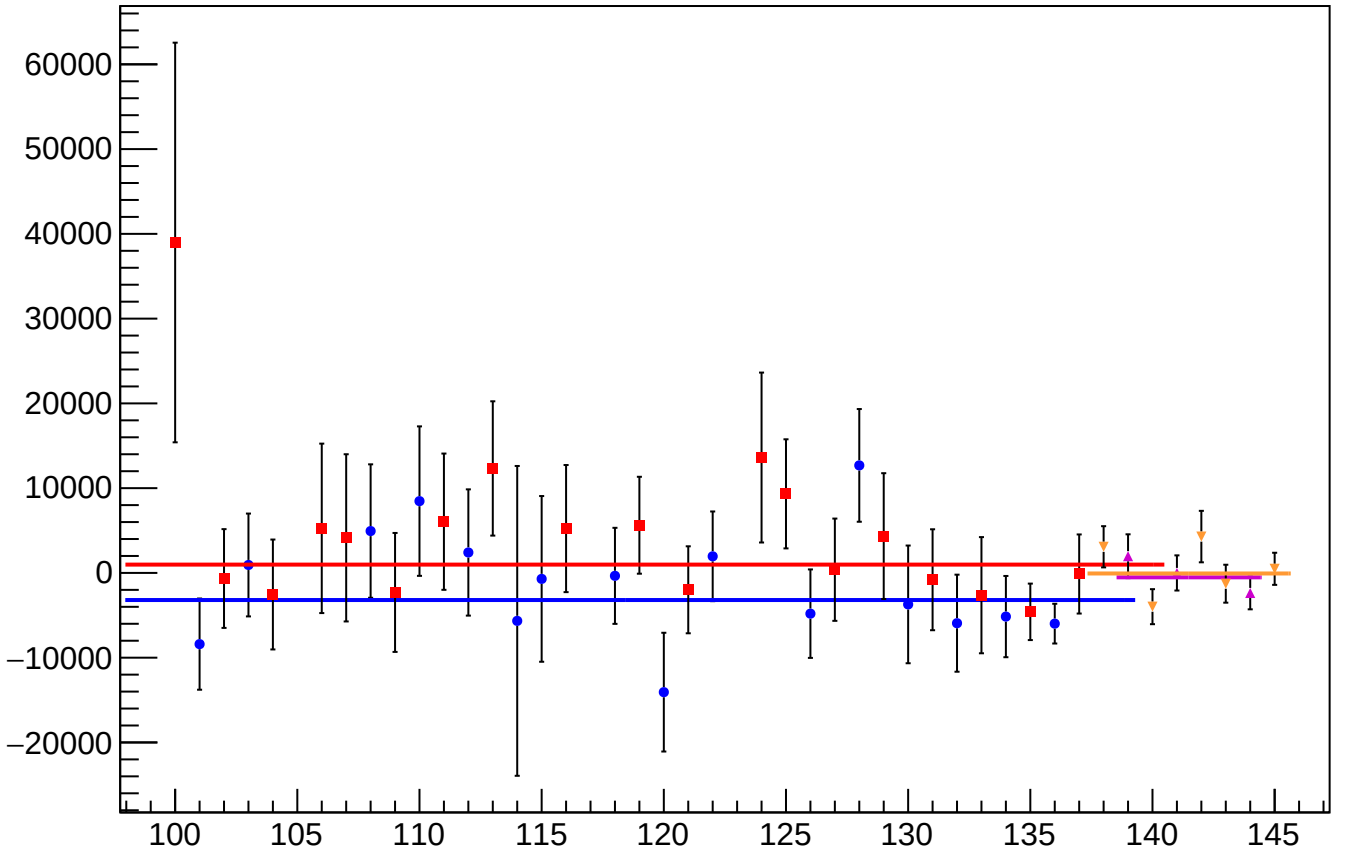
Left: 246.188+/-0.070 $\chi^2$/NDF: 77000.1/7

Right: 316.149+/-0.060 $\chi^2$/NDF: 1299362.0/34

In: 288.085+/-0.066 $\chi^2$/NDF:845267.8/18

Out: 284.970+/-0.062 $\chi^2$/NDF:1112151.5/23

All: 286.423+/-0.045 $\chi^2$/NDF: 1958594.6/42




Right In: -3198.673+/-1353.816 $\chi^2$/NDF: 16.1/15

Left Out: -65.899+/-1004.766 $\chi^2$/NDF:7.7/4

Right Out: 980.937+/-1445.265 $\chi^2$/NDF: 14.0/18

Left In: -521.827+/-1239.719 $\chi^2$/NDF:1.9/2

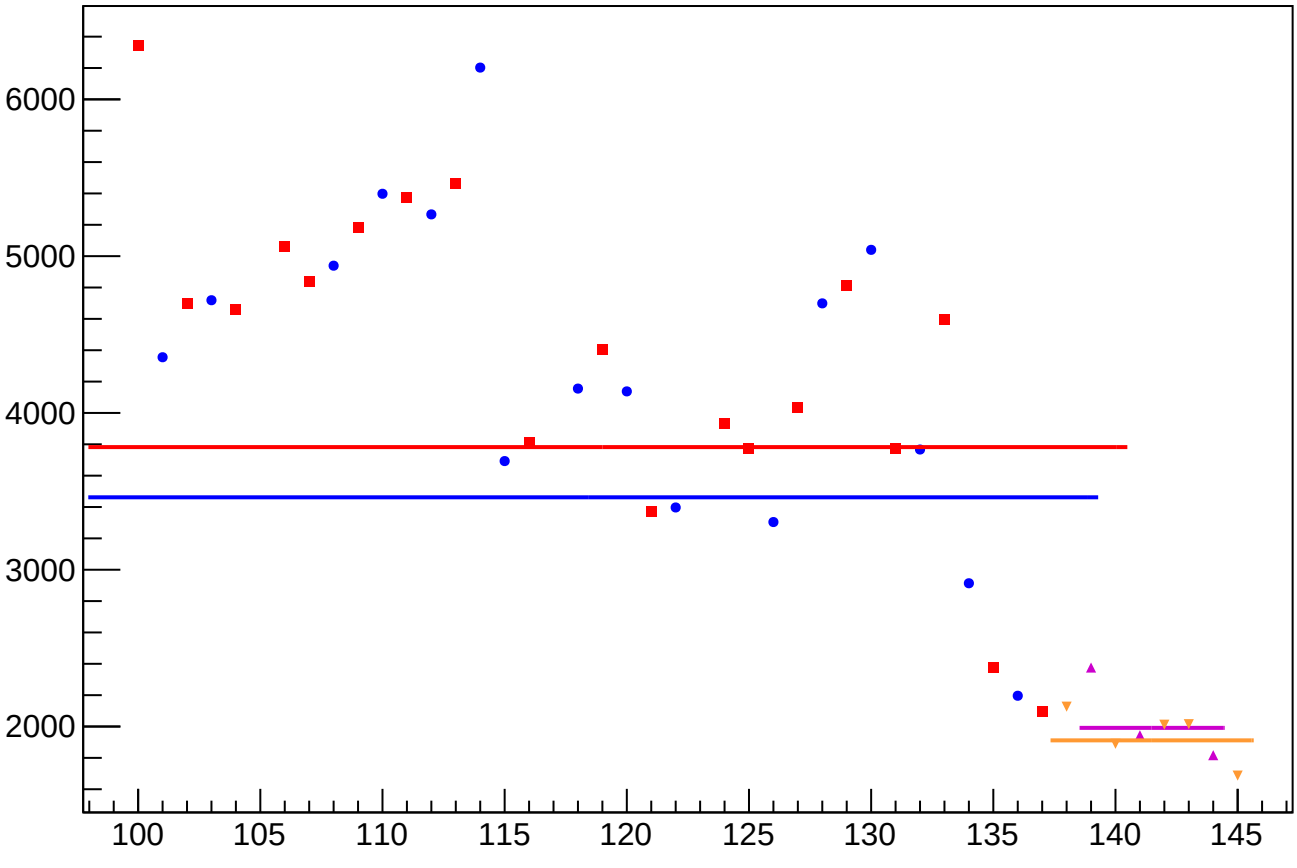
Left: -246.654+/-780.585 $\chi^2$/NDF: 9.7/7

Right: -1245.274+/-988.041 $\chi^2$/NDF: 34.5/34

In: -1742.715+/-914.294 $\chi^2$/NDF:20.1/18

Out: 275.199+/-824.988 $\chi^2$/NDF:22.0/23

All: -630.417+/-612.501 $\chi^2$/NDF: 44.8/42




Right In: 3461.932+/-0.957 $\chi^2$/NDF: 1309596.2/15

Left Out: 1911.727+/-0.710 $\chi^2$/NDF:50410.9/4

Right Out: 3782.176+/-1.022 $\chi^2$/NDF: 1136342.8/18

Left In: 1991.455+/-0.877 $\chi^2$/NDF:61681.4/2

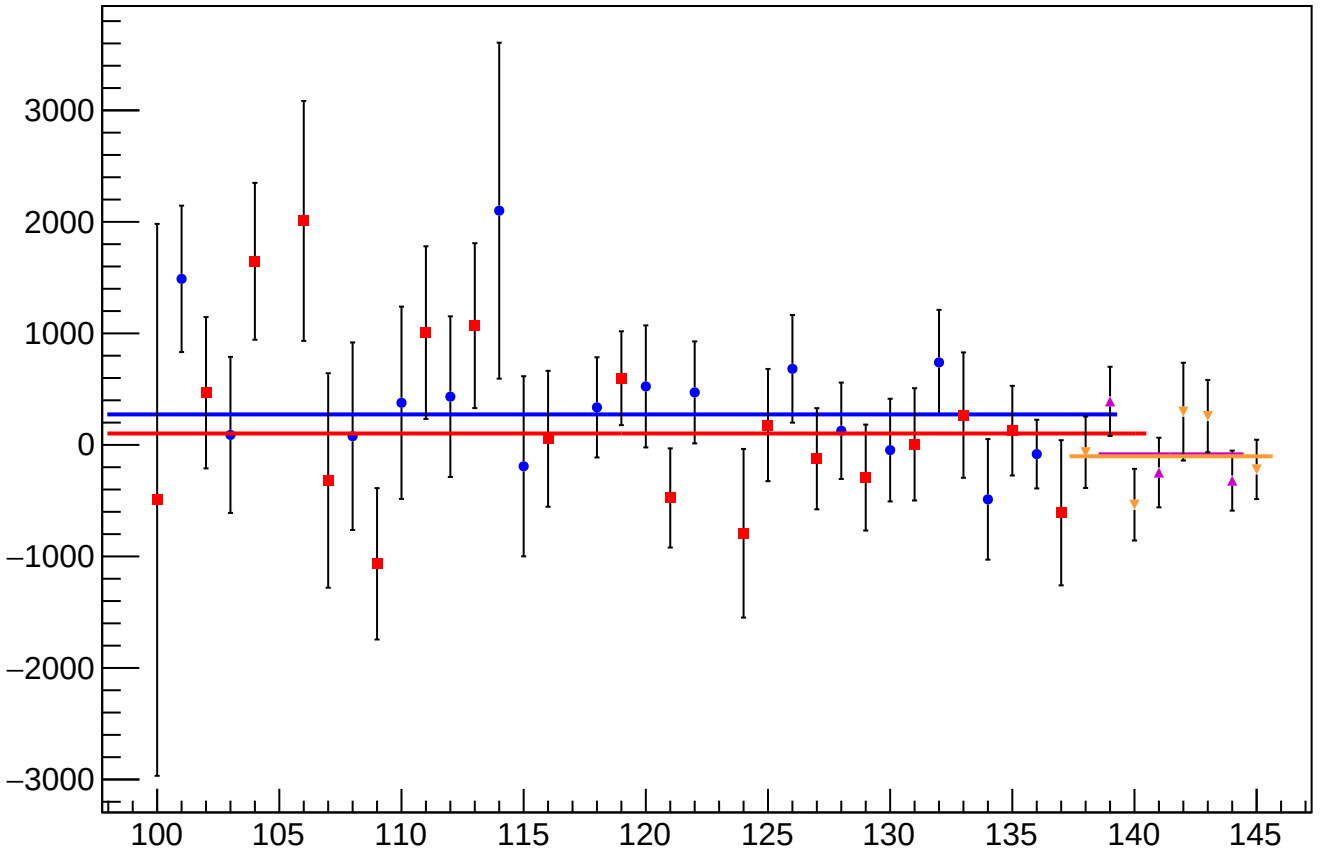
Left: 1943.336+/-0.552 $\chi^2$/NDF: 117084.7/7

Right: 3611.602+/-0.699 $\chi^2$/NDF: 2498242.4/34

In: 2662.128+/-0.647 $\chi^2$/NDF:2654648.2/18

Out: 2521.188+/-0.583 $\chi^2$/NDF:3445107.4/23

All: 2584.440+/-0.433 $\chi^2$/NDF: 6125952.0/42




Right In: 273.578+/-132.537 $\chi^2$/NDF: 11.4/15

Left Out: -101.979+/-143.927 $\chi^2$/NDF:4.1/4

Right Out: 102.369+/-133.606 $\chi^2$/NDF: 21.3/18

Left In: -84.364+/-170.361 $\chi^2$/NDF:3.4/2

Left: -94.643+/-109.943 $\chi^2$/NDF: 7.5/7

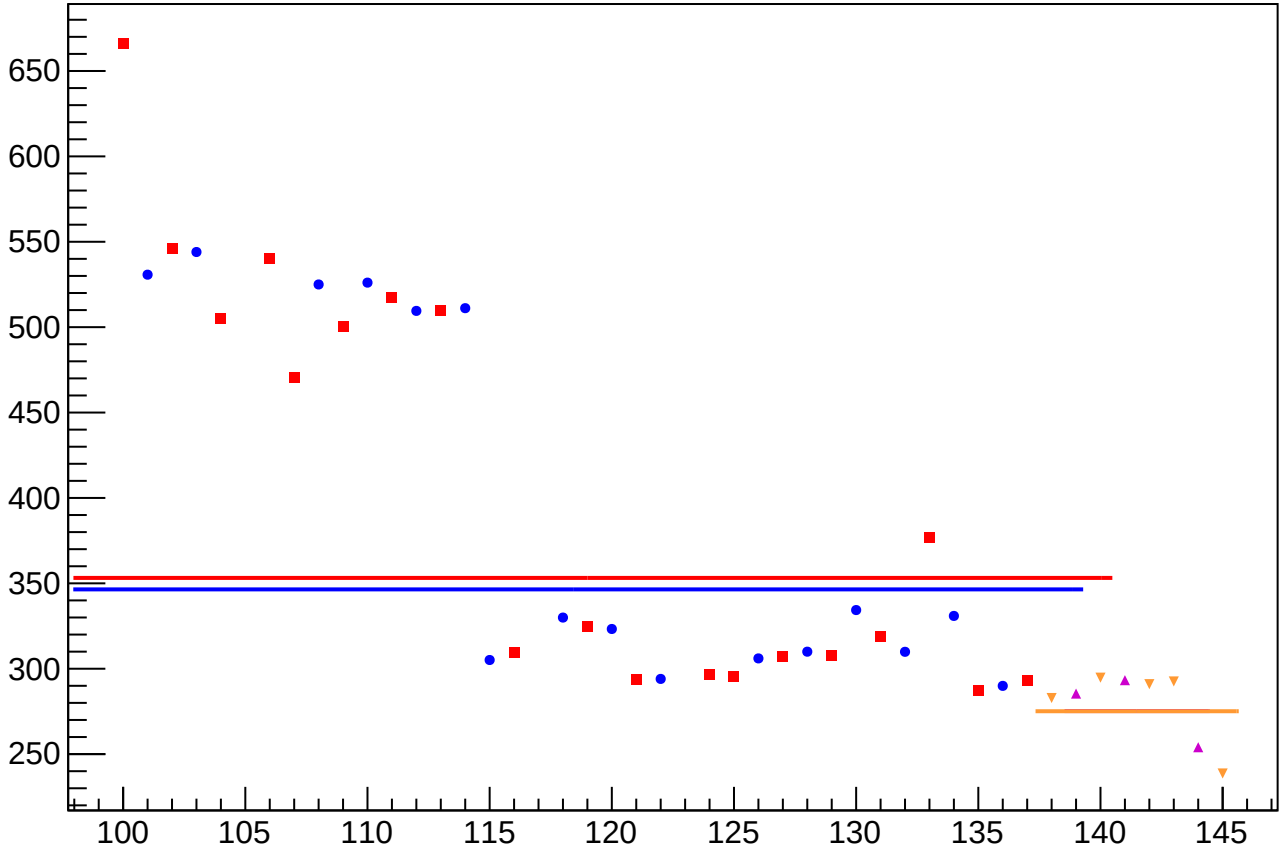
Right: 188.661+/-94.094 $\chi^2$/NDF: 33.6/34

In: 138.618+/-104.608 $\chi^2$/NDF:17.6/18

Out: 7.784+/-97.920 $\chi^2$/NDF:26.5/23

All: 68.885+/-71.487 $\chi^2$/NDF: 44.9/42

# dit_asym_sam2_rms vs Slug, Sign Corrected




Right In: 346.455+/-0.094 $\chi^2$/NDF: 768763.1/15

Left Out: 275.107+/-0.102 $\chi^2$/NDF:54558.0/4

Right Out: 353.178+/-0.094 $\chi^2$/NDF: 866364.3/18

Left In: 275.214+/-0.120 $\chi^2$/NDF:21268.4/2

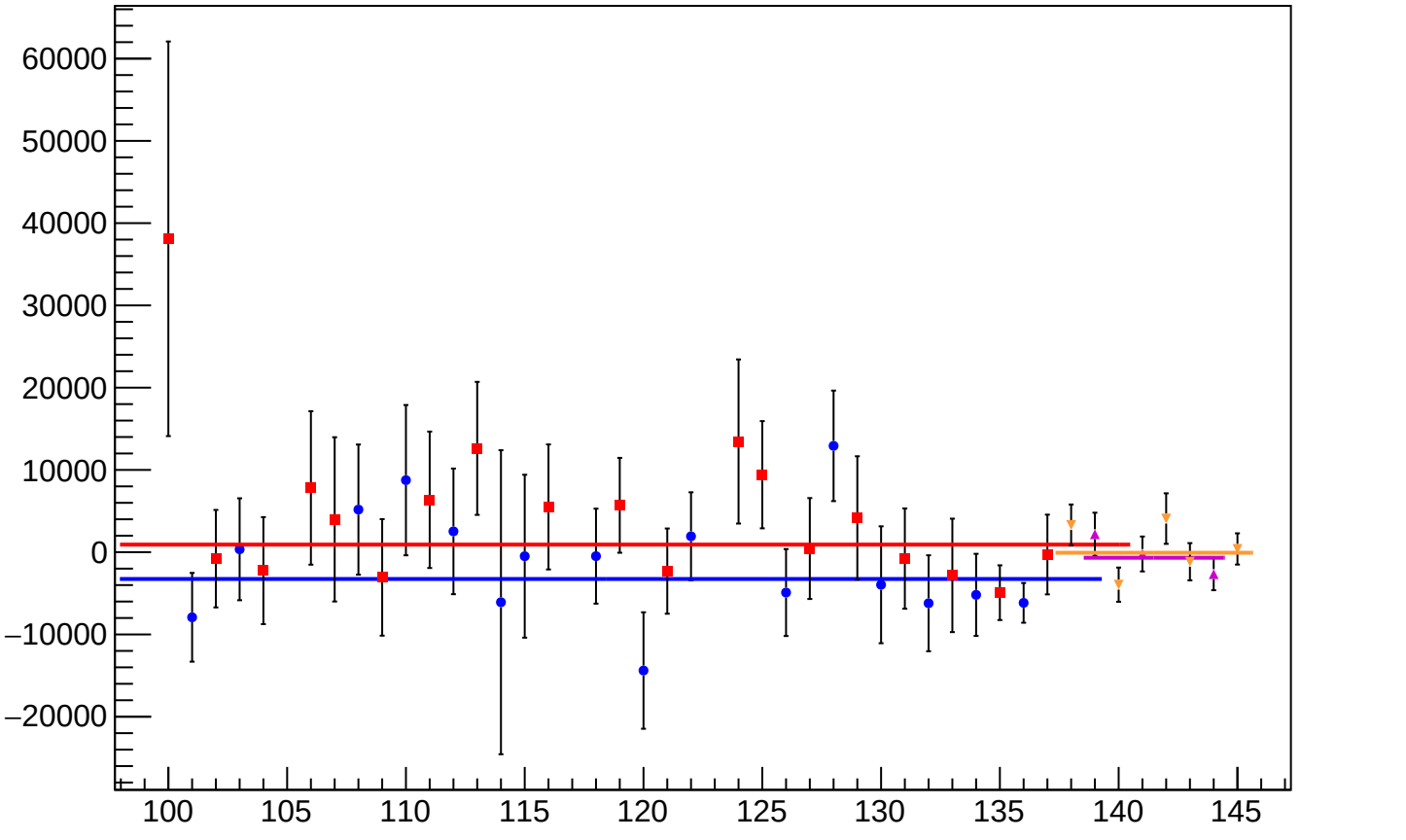
Left: 275.152+/-0.078 $\chi^2$/NDF: 75826.9/7

Right: 349.789+/-0.067 $\chi^2$/NDF: 1637679.7/34

In: 319.594+/-0.074 $\chi^2$/NDF:1007904.1/18

Out: 317.042+/-0.069 $\chi^2$/NDF:1237004.3/23

All: 318.234+/-0.051 $\chi^2$/NDF: 2245542.8/42




Right In: -3258.837+/-1384.139 $\chi^2$/NDF: 16.0/15

Left Out: -68.242+/-1015.034 $\chi^2$/NDF:7.4/4

Right Out: 921.196+/-1460.727 $\chi^2$/NDF: 14.6/18

Left In: -677.093+/-1259.631 $\chi^2$/NDF:2.3/2

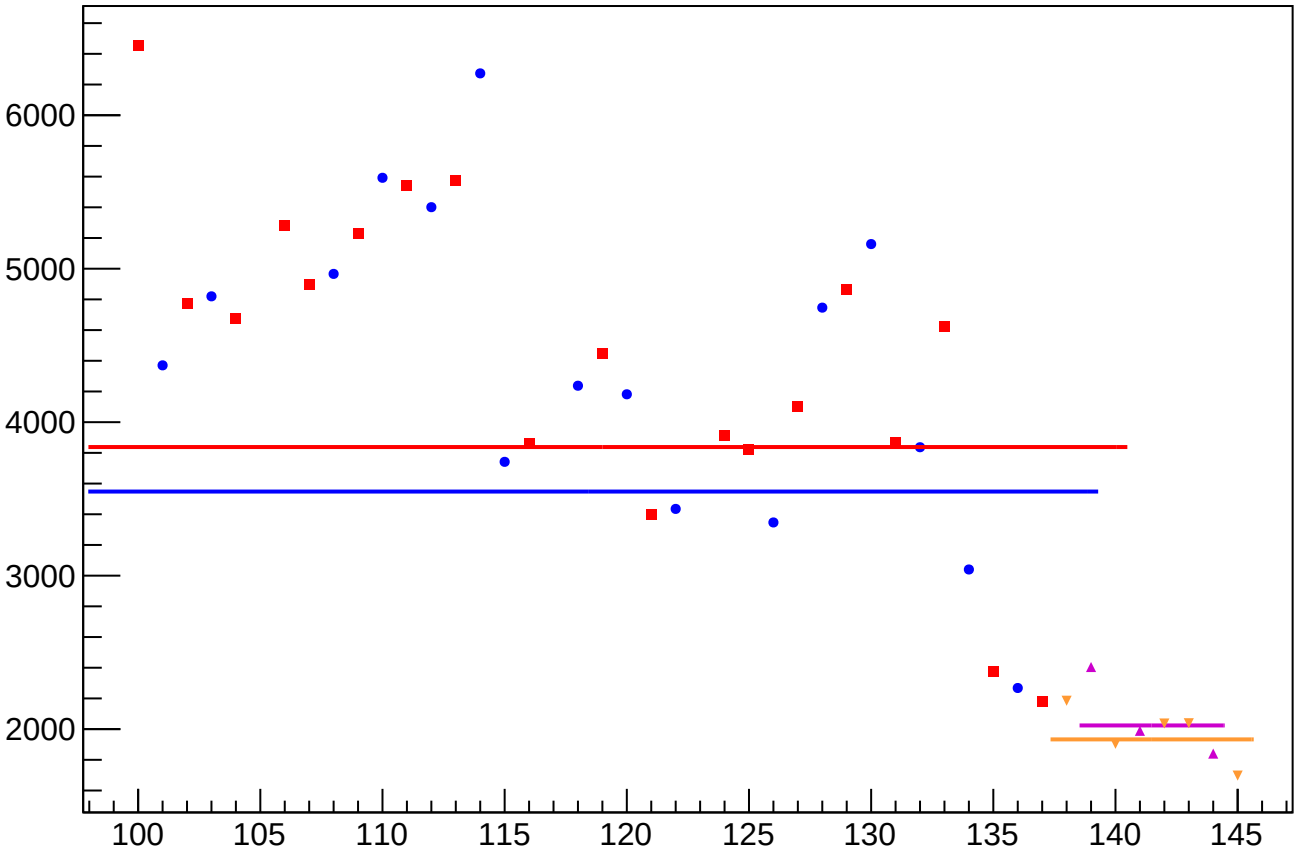
Left: -307.946+/-790.360 $\chi^2$/NDF: 9.9/7

Right: -1281.271+/-1004.719 $\chi^2$/NDF: 35.0/34

In: -1846.647+/-931.608 $\chi^2$/NDF:20.2/18

Out: 253.947+/-833.547 $\chi^2$/NDF:22.4/23

All: -680.013+/-621.193 $\chi^2$/NDF: 45.4/42




Right In: 3547.969+/-0.979 $\chi^2$/NDF: 1258486.8/15

Left Out: 1933.072+/-0.718 $\chi^2$/NDF:58216.8/4

Right Out: 3837.970+/-1.033 $\chi^2$/NDF: 1155831.8/18

Left In: 2023.972+/-0.891 $\chi^2$/NDF:60571.1/2

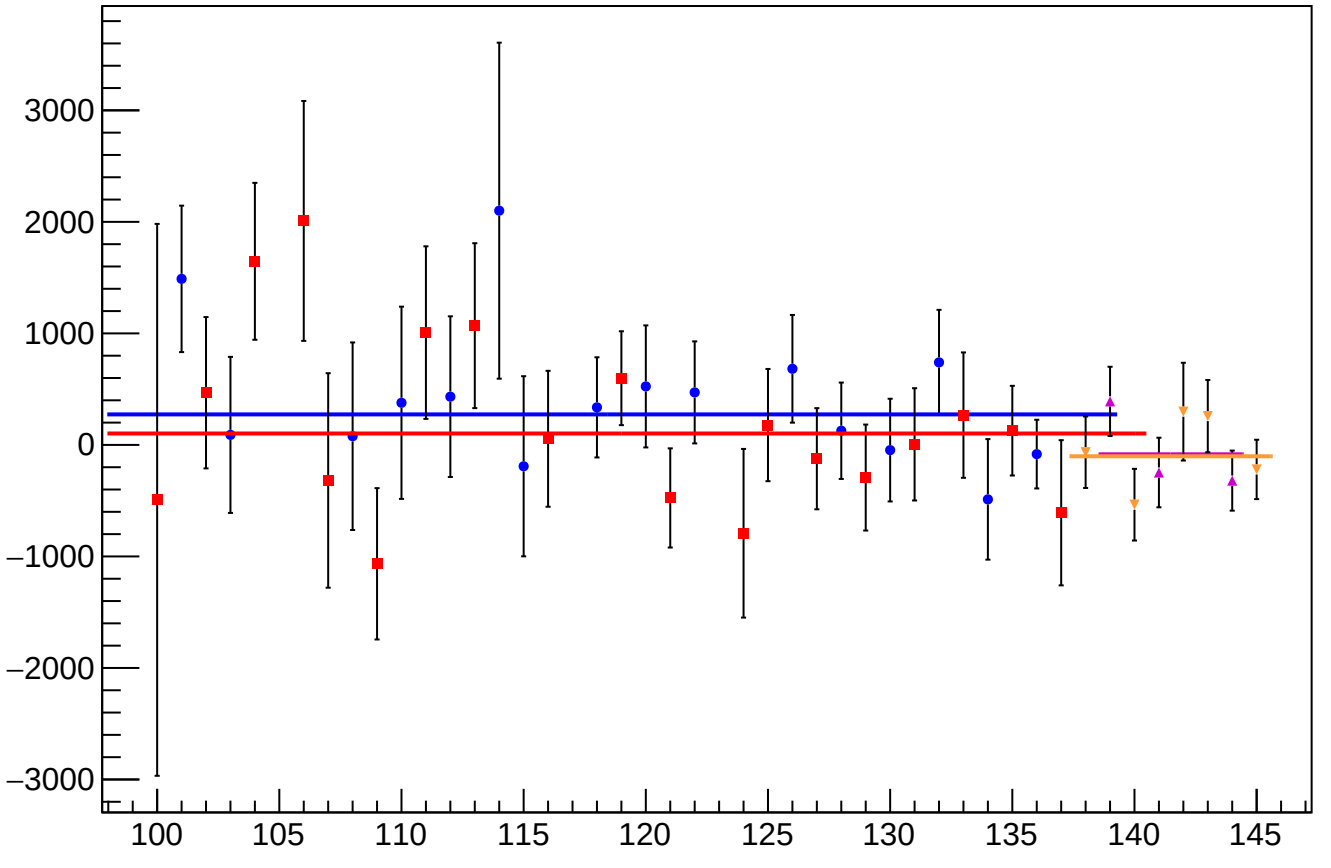
Left: 1968.859+/-0.559 $\chi^2$/NDF: 125102.6/7

Right: 3685.168+/-0.710 $\chi^2$/NDF: 2455854.0/34

In: 2714.357+/-0.659 $\chi^2$/NDF:2645287.9/18

Out: 2553.361+/-0.589 $\chi^2$/NDF:3507735.9/23

All: 2624.942+/-0.439 $\chi^2$/NDF: 6186196.8/42




Right In: 273.582+/-132.536 $\chi^2$/NDF: 11.4/15

Left Out: -101.989+/-143.927 $\chi^2$/NDF:4.1/4

Right Out: 102.368+/-133.606 $\chi^2$/NDF: 21.3/18

Left In: -84.364+/-170.361 $\chi^2$/NDF:3.4/2

Left: -94.649+/-109.943 $\chi^2$/NDF: 7.5/7

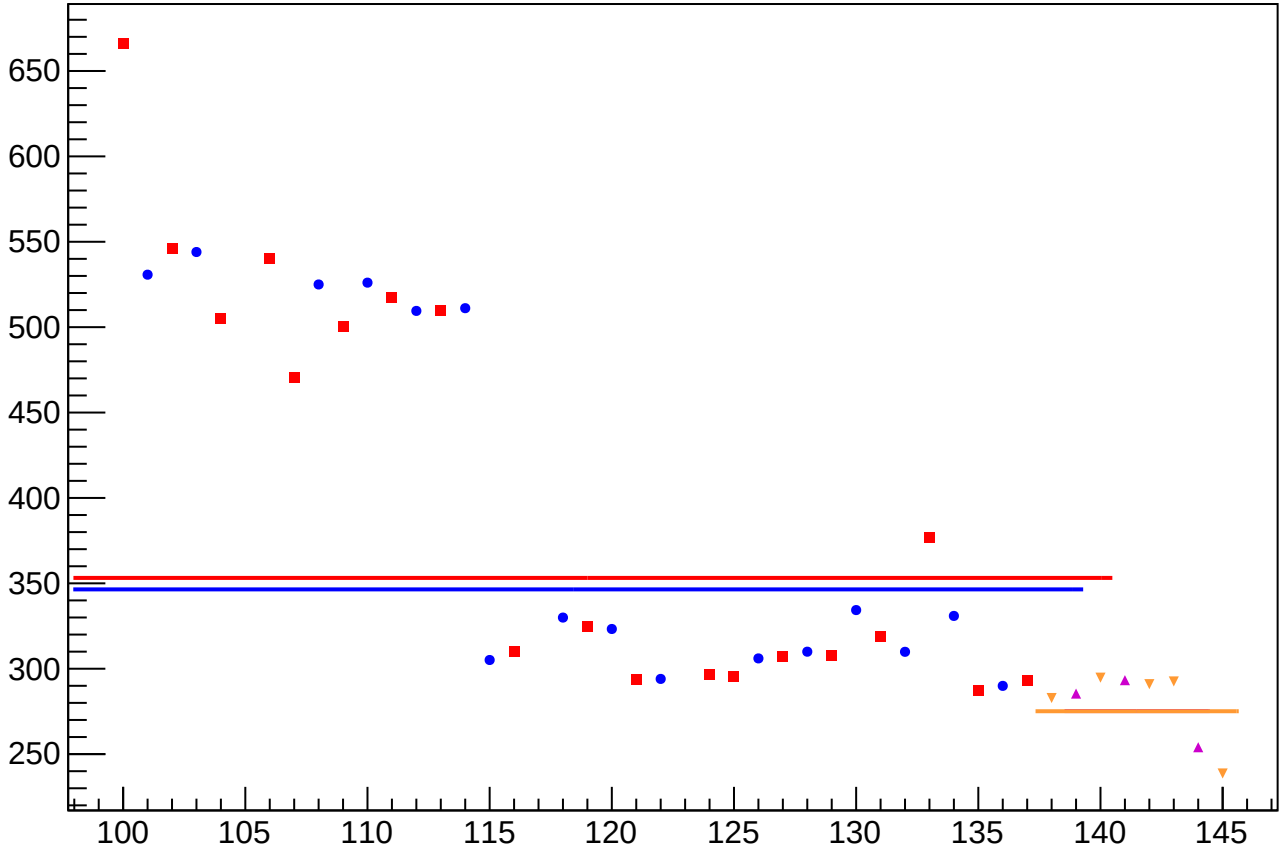
Right: 188.663+/-94.093 $\chi^2$/NDF: 33.6/34

In: 138.621+/-104.608 $\chi^2$/NDF:17.6/18

Out: 7.779+/-97.919 $\chi^2$/NDF:26.5/23

All: 68.884+/-71.487 $\chi^2$/NDF: 44.9/42

# eigen_dit_asym_sam2_rms vs Slug, Sign Corrected




Right In: 346.453+/-0.094 $\chi^2$/NDF: 768754.7/15

Left Out: 275.107+/-0.102 $\chi^2$/NDF:54558.5/4

Right Out: 353.176+/-0.094 $\chi^2$/NDF: 866353.6/18

Left In: 275.214+/-0.120 $\chi^2$/NDF:21268.3/2

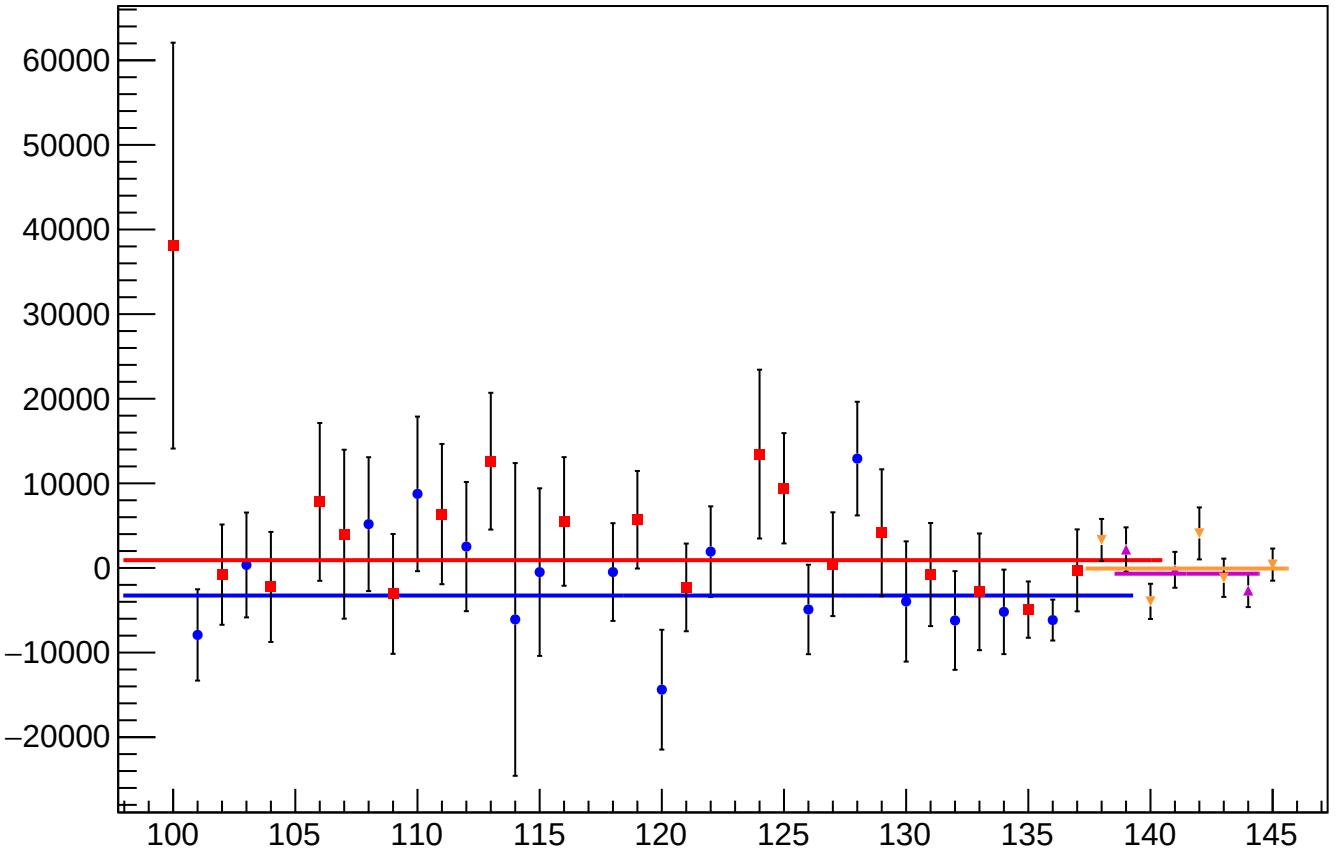
Left: 275.152+/-0.078 $\chi^2$/NDF: 75827.2/7

Right: 349.788+/-0.067 $\chi^2$/NDF: 1637661.2/34

In: 319.593+/-0.074 $\chi^2$/NDF:1007883.9/18

Out: 317.041+/-0.069 $\chi^2$/NDF:1236986.2/23

All: 318.233+/-0.051 $\chi^2$/NDF: 2245504.4/42




Right In: -3258.828+/-1384.137 $\chi^2$/NDF: 16.0/15

Left Out: -68.247+/-1015.033 $\chi^2$/NDF:7.4/4

Right Out: 921.200+/-1460.725 $\chi^2$/NDF: 14.6/18

Left In: -677.090+/-1259.630 $\chi^2$/NDF:2.3/2

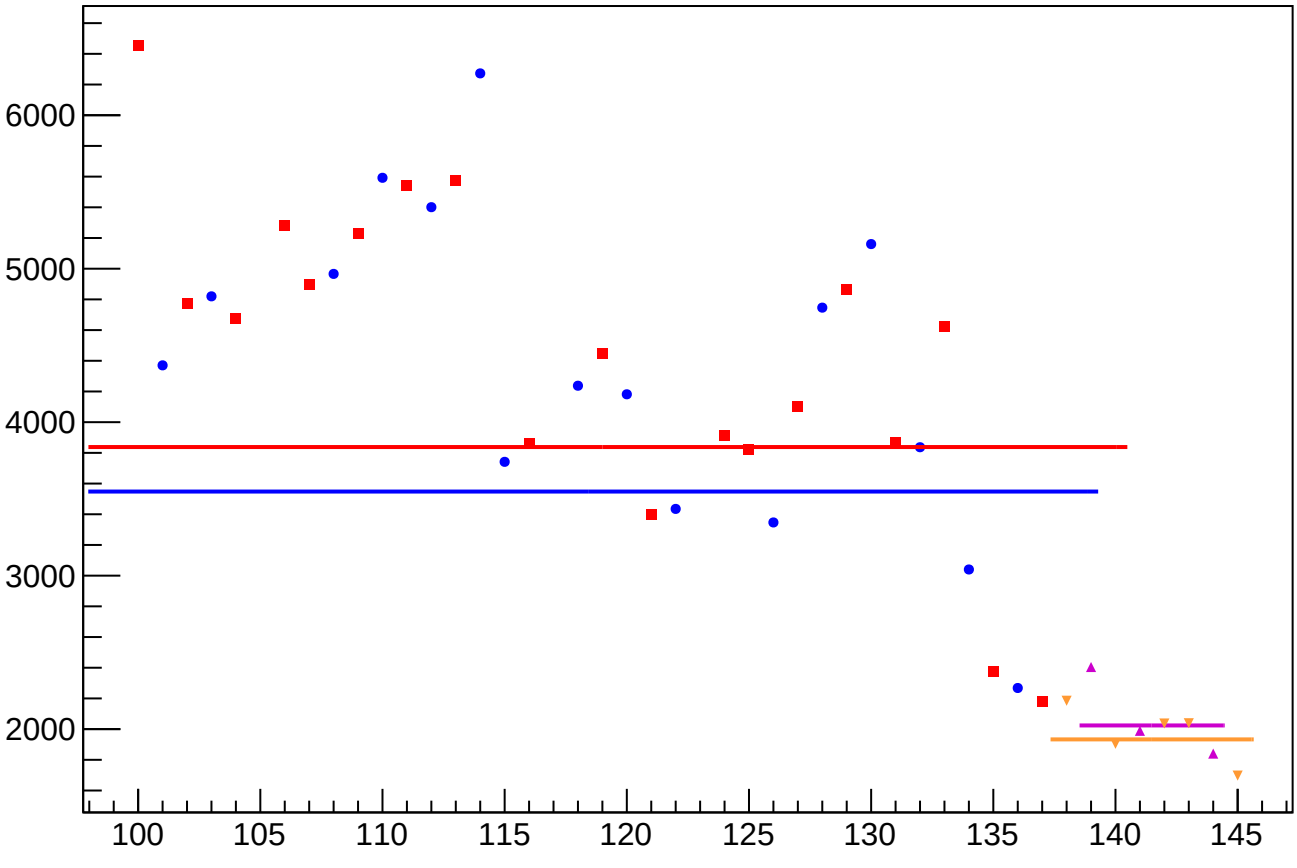
Left: -307.948+/-790.359 $\chi^2$/NDF: 9.9/7

Right: -1281.264+/-1004.718 $\chi^2$/NDF: 35.0/34

In: -1846.642+/-931.607 $\chi^2$/NDF:20.2/18

Out: 253.945+/-833.546 $\chi^2$/NDF:22.4/23

All: -680.012+/-621.192 $\chi^2$/NDF: 45.4/42




Right In: 3547.966+/-0.979 $\chi^2$/NDF: 1258472.8/15

Left Out: 1933.069+/-0.718 $\chi^2$/NDF:58218.4/4

Right Out: 3837.965+/-1.033 $\chi^2$/NDF: 1155821.5/18

Left In: 2023.970+/-0.891 $\chi^2$/NDF:60569.9/2

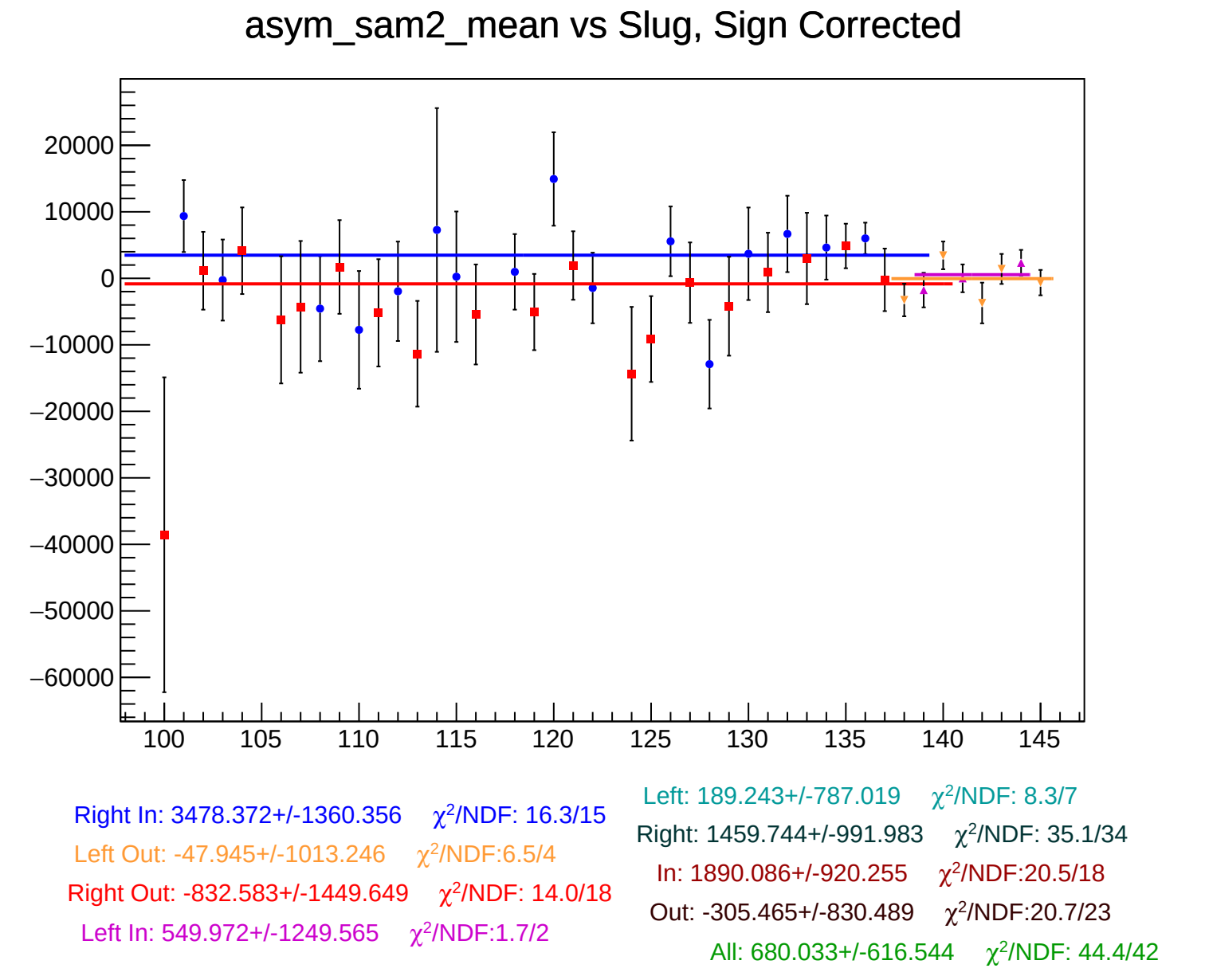
Left: 1968.857+/-0.559 $\chi^2$/NDF: 125103.3/7

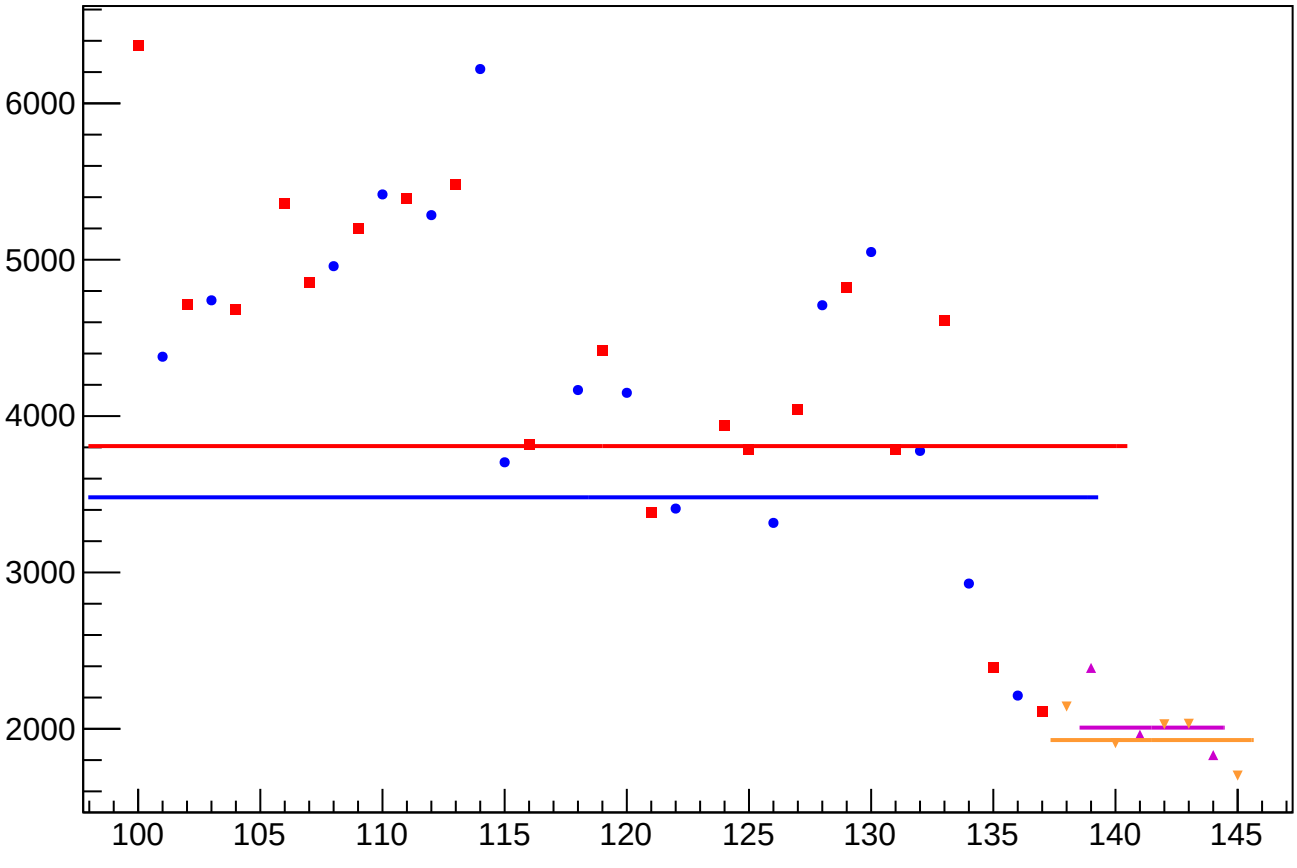
Right: 3685.164+/-0.710 $\chi^2$/NDF: 2455829.5/34

In: 2714.355+/-0.659 $\chi^2$/NDF:2645273.2/18

Out: 2553.358+/-0.589 $\chi^2$/NDF:3507730.3/23

All: 2624.940+/-0.439 $\chi^2$/NDF: 6186177.0/42


asym_sam2_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
100
105
110
115
120
125
130
135
140
145
Right In: 3478.372+/-1360.356 χ²/NDF: 16.3/15
Left Out: -47.945+/-1013.246 χ²/NDF:6.5/4
Right Out: -832.583+/-1449.649 χ²/NDF: 14.0/18
Left In: 549.972+/-1249.565 χ²/NDF:1.7/2
Left: 189.243+/-787.019 χ²/NDF: 8.3/7
Right: 1459.744+/-991.983 χ²/NDF: 35.1/34
In: 1890.086+/-920.255 χ²/NDF:20.5/18
Out: -305.465+/-830.489 χ²/NDF:20.7/23
All: 680.033+/-616.544 χ²/NDF: 44.4/42




Right In: 3480.559+/-0.962 $\chi^2$/NDF: 1296641.6/15

Left Out: 1928.140+/-0.716 $\chi^2$/NDF:50275.9/4

Right Out: 3808.151+/-1.025 $\chi^2$/NDF: 1147564.2/18

Left In: 2007.626+/-0.884 $\chi^2$/NDF:60439.5/2

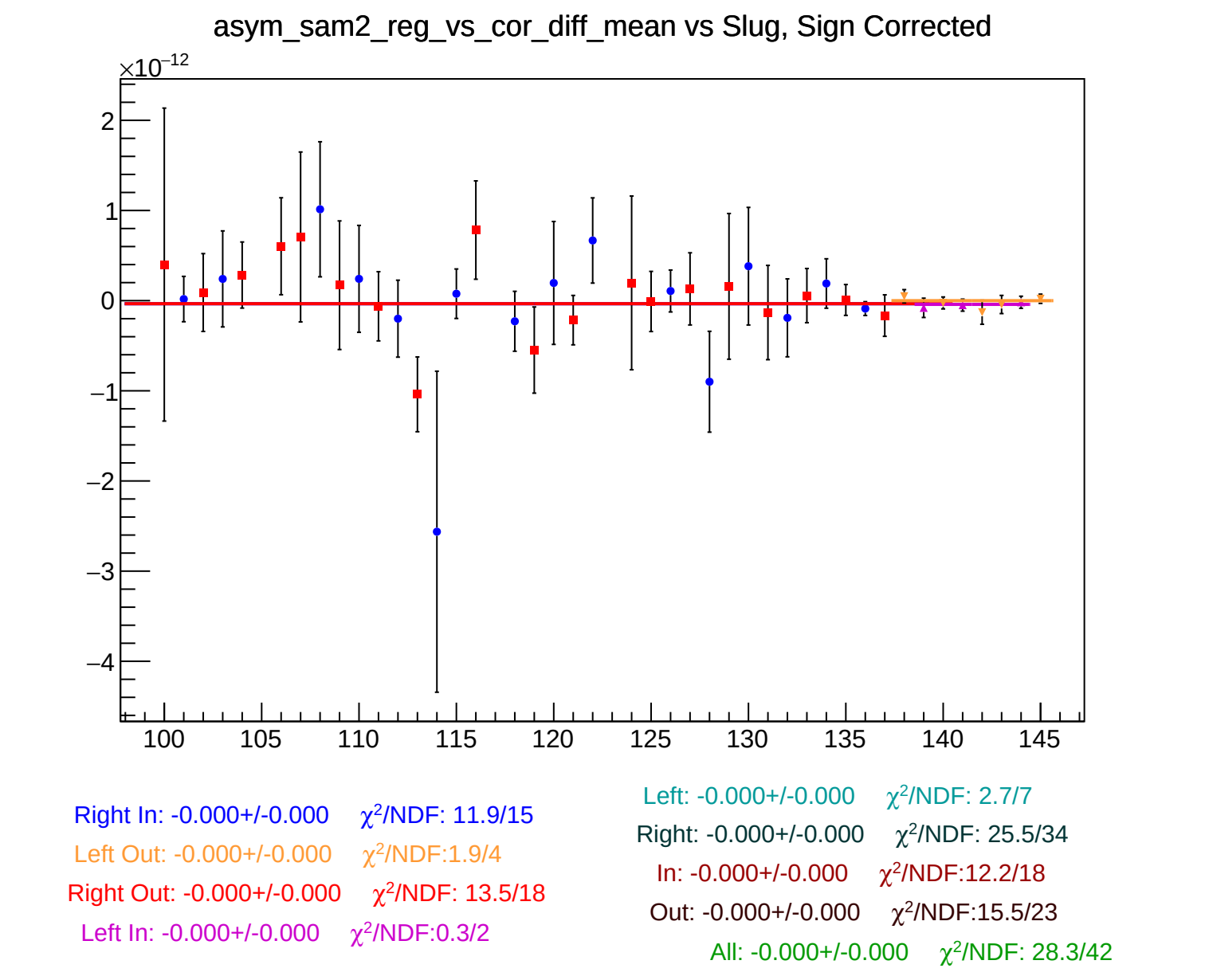
Left: 1959.672+/-0.557 $\chi^2$/NDF: 115597.8/7

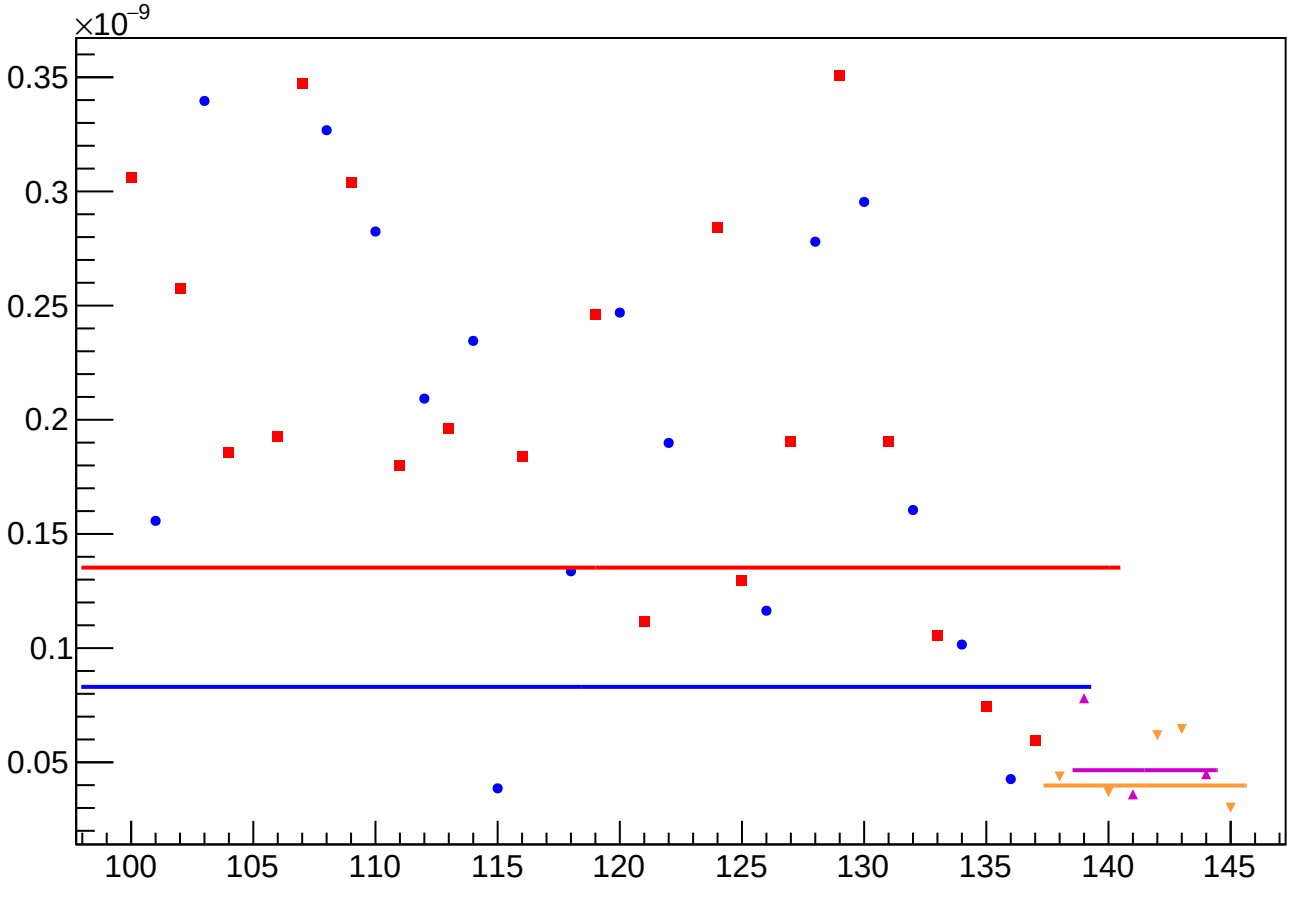
Right: 3633.956+/-0.701 $\chi^2$/NDF: 2498515.1/34

In: 2681.680+/-0.651 $\chi^2$/NDF:2628794.3/18

Out: 2545.166+/-0.587 $\chi^2$/NDF:3457605.5/23

All: 2606.441+/-0.436 $\chi^2$/NDF: 6110656.3/42


asym_sam2_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
−4
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 11.9/15
Left Out: -0.000+/-0.000 χ²/NDF:1.9/4
Right Out: -0.000+/-0.000 χ²/NDF: 13.5/18
Left In: -0.000+/-0.000 χ²/NDF:0.3/2
Left: -0.000+/-0.000 χ²/NDF: 2.7/7
Right: -0.000+/-0.000 χ²/NDF: 25.5/34
In: -0.000+/-0.000 χ²/NDF:12.2/18
Out: -0.000+/-0.000 χ²/NDF:15.5/23
All: -0.000+/-0.000 χ²/NDF: 28.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2702339.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:257046.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1401659.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:225255.2/2

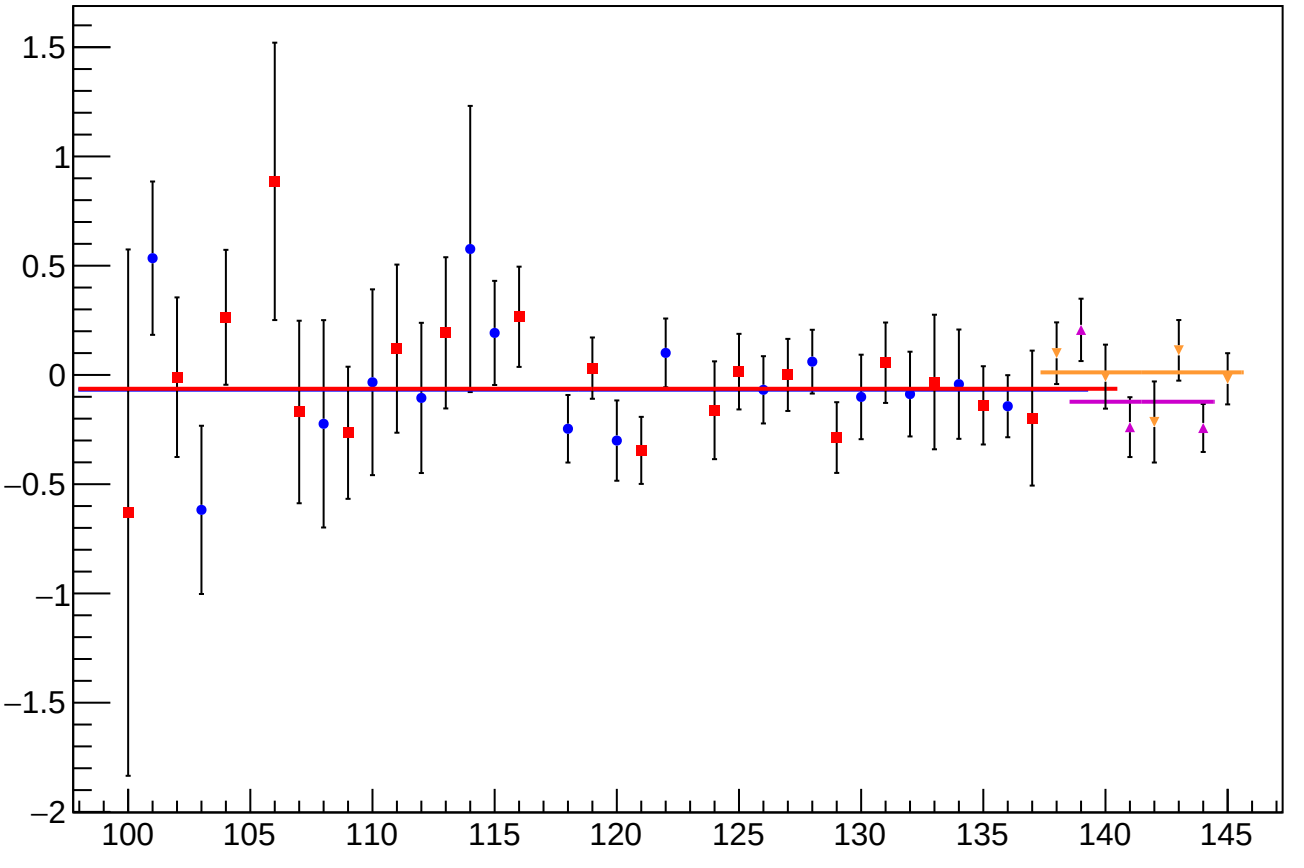
Left: 0.000+/-0.000 $\chi^2$/NDF: 513026.7/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4605860.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:3408033.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3865980.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7317556.5/42




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.012+/-0.063 $\chi^2$/NDF:2.5/4

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: -0.123+/-0.073 $\chi^2$/NDF:7.2/2

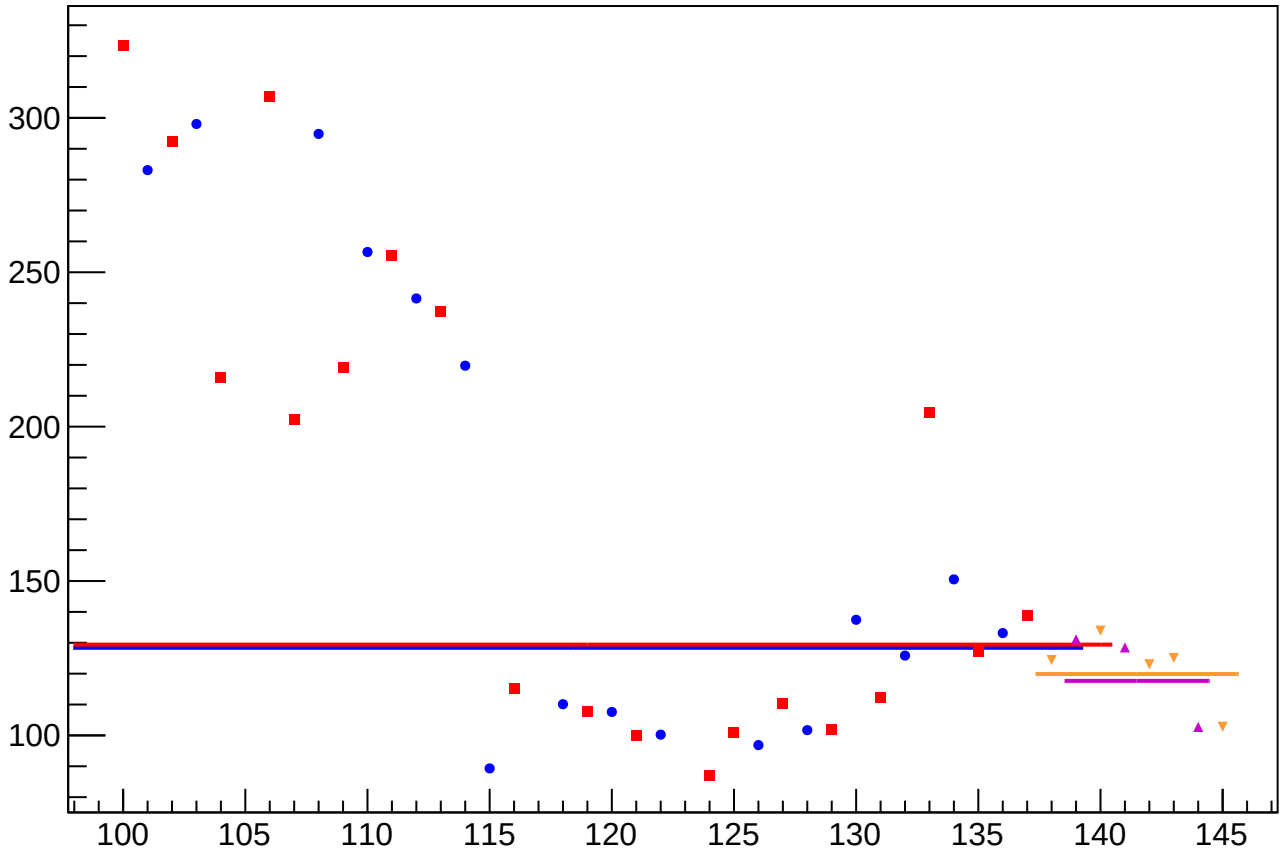
Left: -0.045+/-0.048 $\chi^2$/NDF: 11.6/7

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.086+/-0.042 $\chi^2$/NDF:20.1/18

Out: -0.033+/-0.040 $\chi^2$/NDF:17.4/23

All: -0.058+/-0.029 $\chi^2$/NDF: 38.2/42




Right In: 128.380+/-0.037 $\chi^2$/NDF: 1805078.6/15

Left Out: 119.879+/-0.045 $\chi^2$/NDF:66360.1/4

Right Out: 129.399+/-0.037 $\chi^2$/NDF: 1888271.6/18

Left In: 117.662+/-0.052 $\chi^2$/NDF:67129.7/2

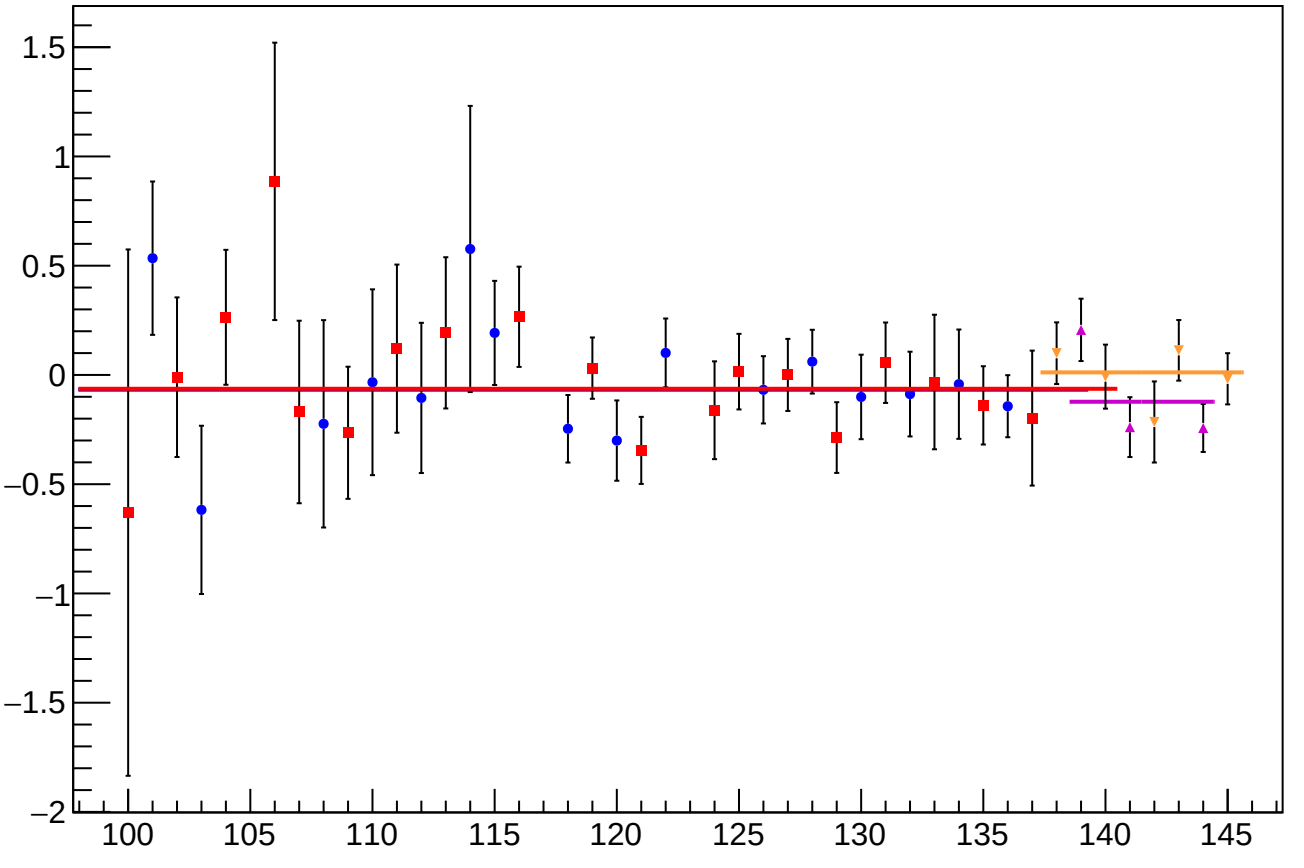
Left: 118.936+/-0.034 $\chi^2$/NDF: 134537.2/7

Right: 128.891+/-0.026 $\chi^2$/NDF: 3693738.9/34

In: 124.823+/-0.030 $\chi^2$/NDF:1900658.1/18

Out: 125.587+/-0.028 $\chi^2$/NDF:1981871.8/23

All: 125.226+/-0.021 $\chi^2$/NDF: 3882874.6/42




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.012+/-0.063 $\chi^2$/NDF:2.5/4

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: -0.123+/-0.073 $\chi^2$/NDF:7.2/2

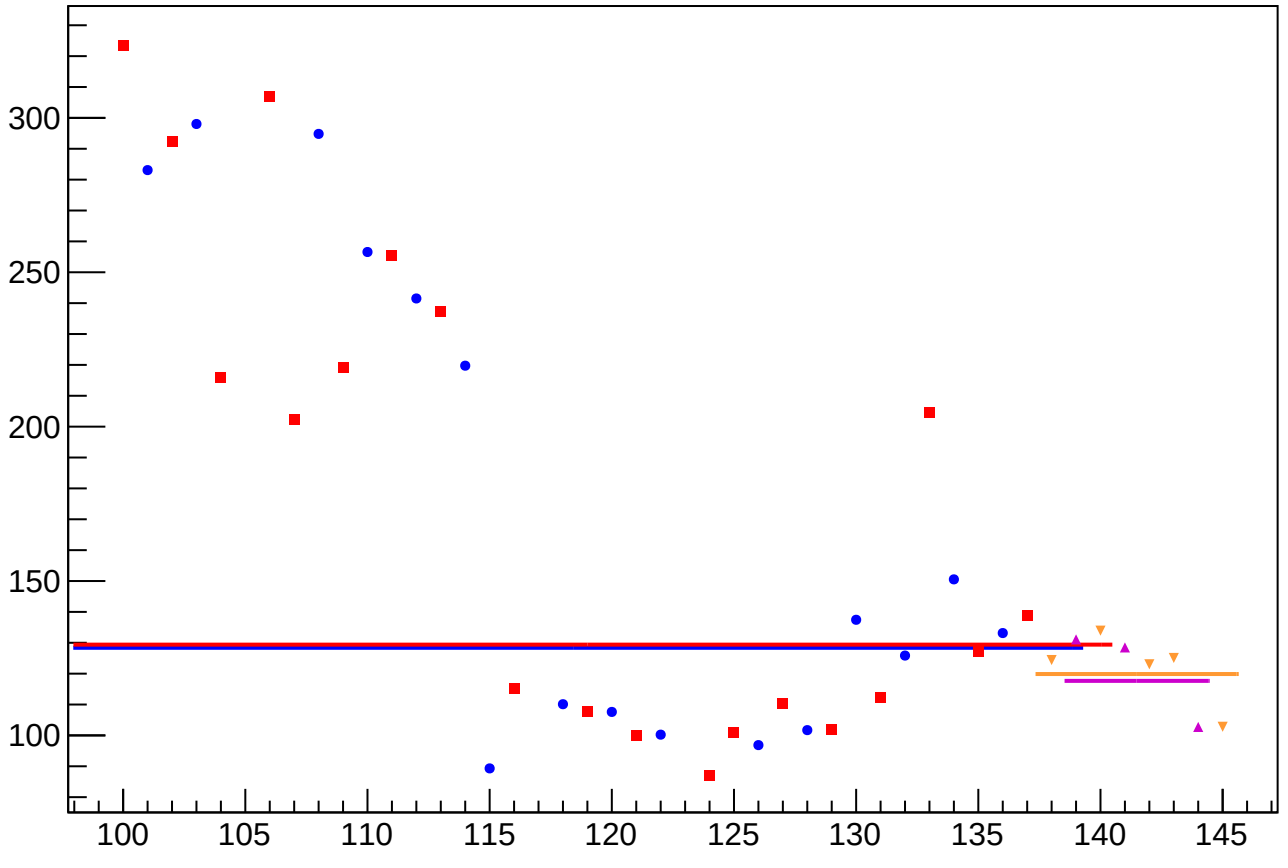
Left: -0.045+/-0.048 $\chi^2$/NDF: 11.6/7

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.086+/-0.042 $\chi^2$/NDF:20.1/18

Out: -0.033+/-0.040 $\chi^2$/NDF:17.4/23

All: -0.058+/-0.029 $\chi^2$/NDF: 38.2/42




Right In: 128.380+/-0.037 $\chi^2$/NDF: 1805078.6/15

Left Out: 119.879+/-0.045 $\chi^2$/NDF:66360.1/4

Right Out: 129.399+/-0.037 $\chi^2$/NDF: 1888271.6/18

Left In: 117.662+/-0.052 $\chi^2$/NDF:67129.7/2

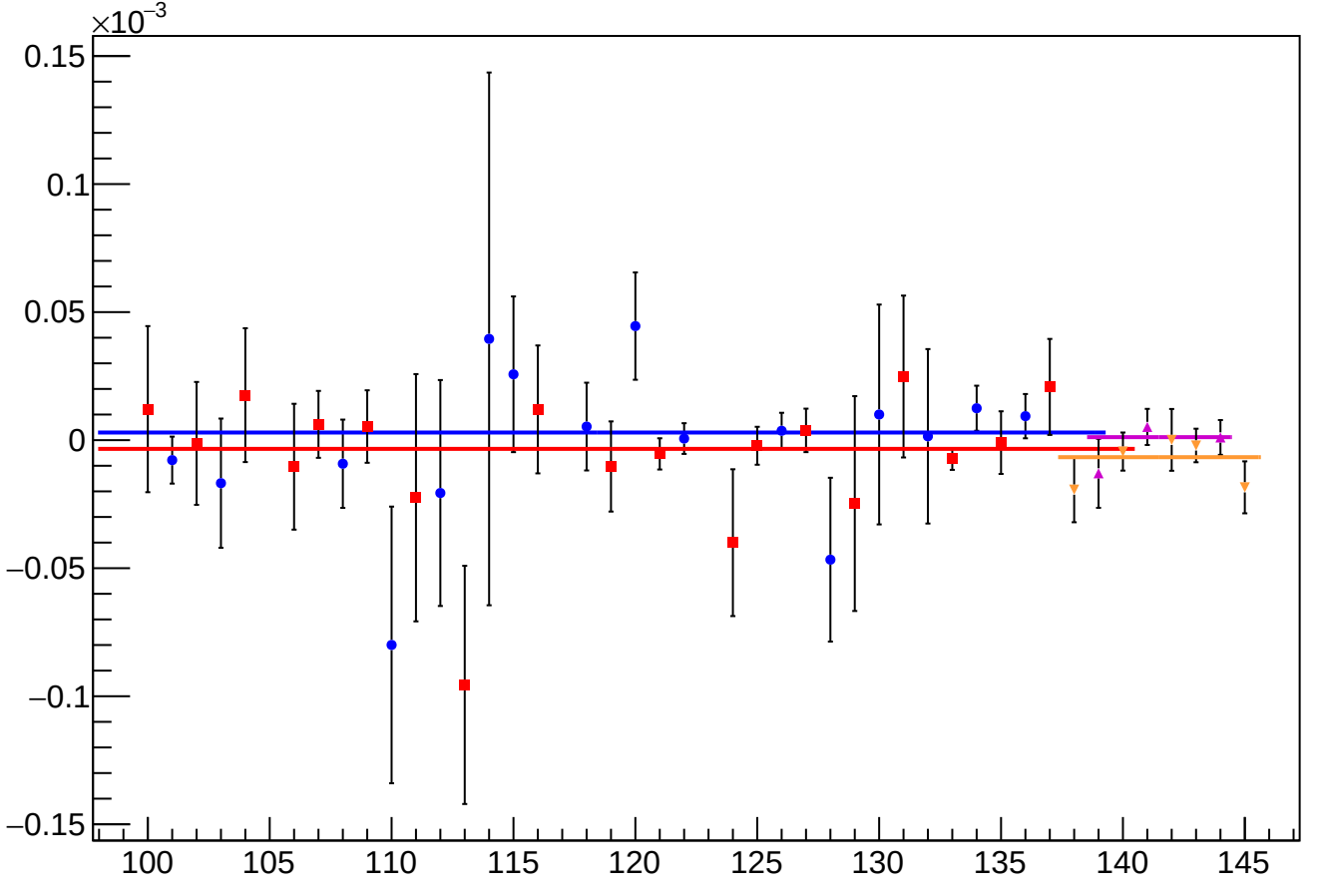
Left: 118.936+/-0.034 $\chi^2$/NDF: 134537.2/7

Right: 128.891+/-0.026 $\chi^2$/NDF: 3693738.9/34

In: 124.823+/-0.030 $\chi^2$/NDF:1900658.1/18

Out: 125.587+/-0.028 $\chi^2$/NDF:1981871.8/23

All: 125.226+/-0.021 $\chi^2$/NDF: 3882874.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/2

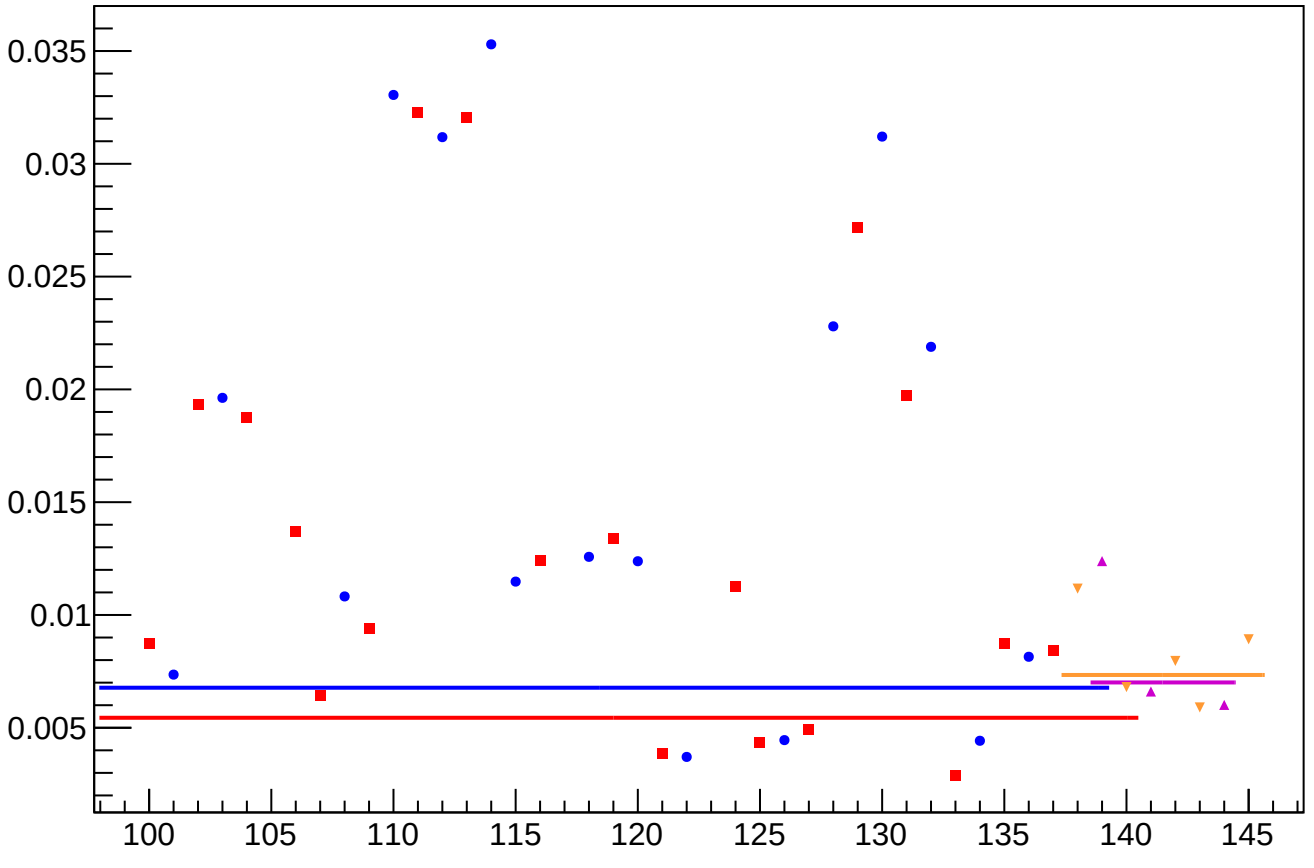
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.3/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 29.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:16.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 35.9/42




Right In: 0.007+/-0.000 $\chi^2$/NDF: 4772275.3/15

Left Out: 0.007+/-0.000 $\chi^2$/NDF:341418.9/4

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 5572364.1/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:368169.1/2

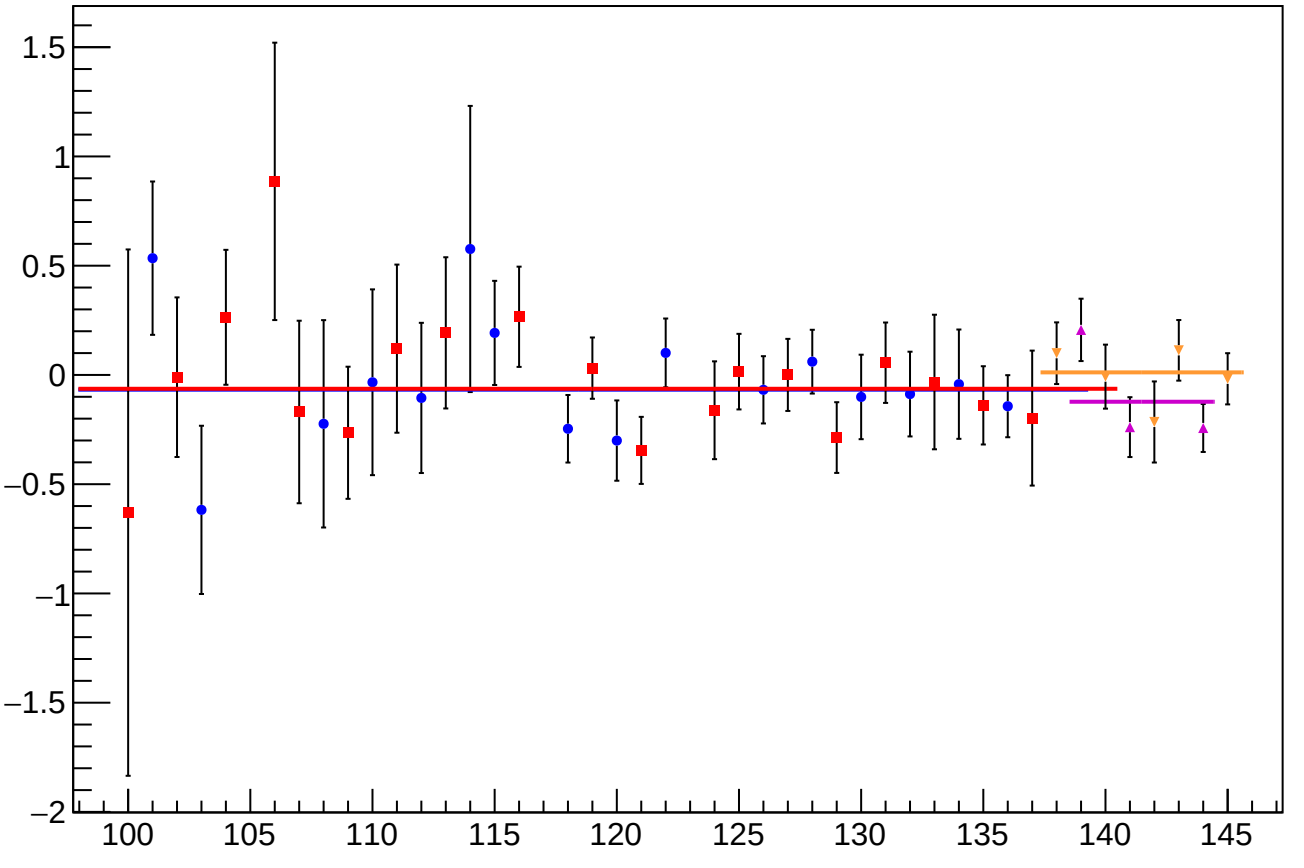
Left: 0.007+/-0.000 $\chi^2$/NDF: 715570.5/7

Right: 0.006+/-0.000 $\chi^2$/NDF: 10558524.8/34

In: 0.007+/-0.000 $\chi^2$/NDF:5143957.3/18

Out: 0.006+/-0.000 $\chi^2$/NDF:6236218.3/23

All: 0.006+/-0.000 $\chi^2$/NDF: 11502075.6/42




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.012+/-0.063 $\chi^2$/NDF:2.5/4

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: -0.123+/-0.073 $\chi^2$/NDF:7.2/2

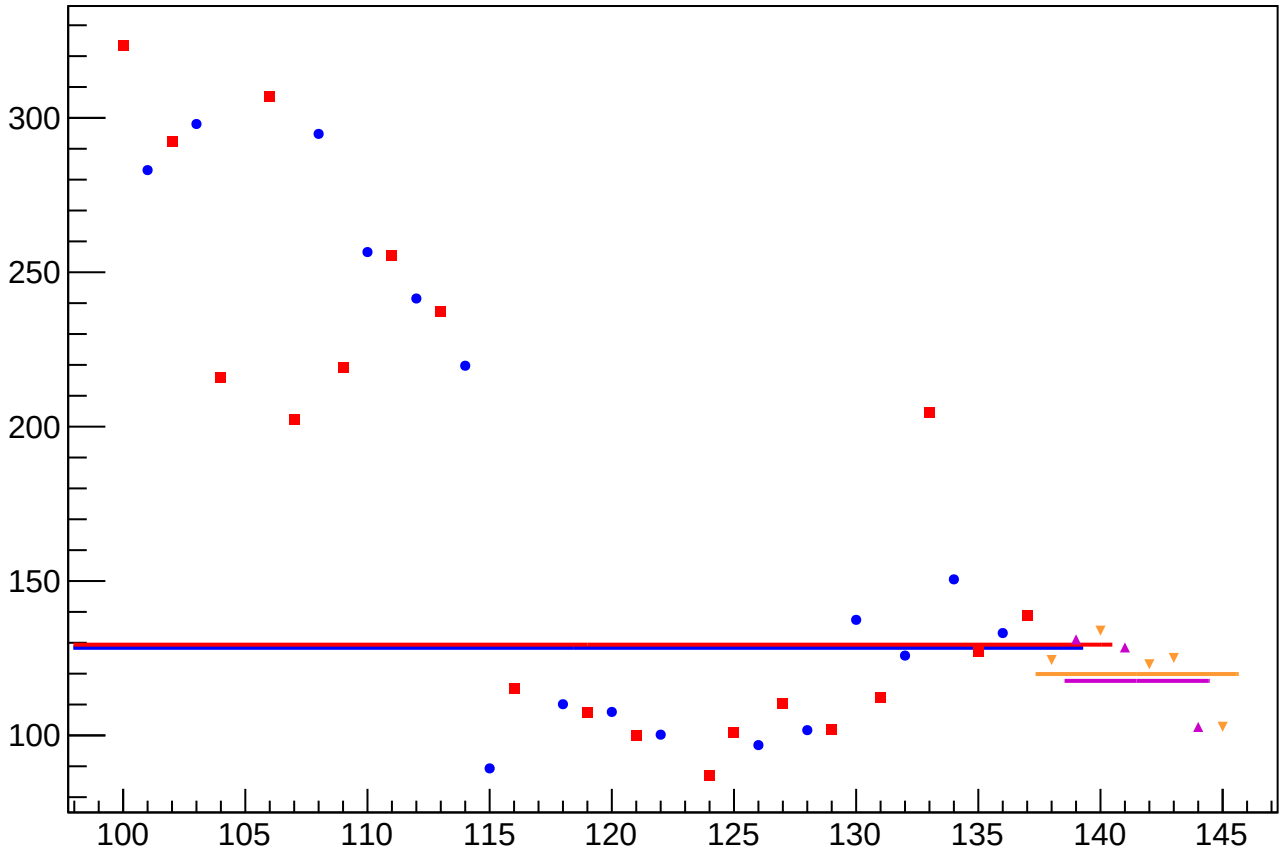
Left: -0.045+/-0.048 $\chi^2$/NDF: 11.6/7

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.086+/-0.042 $\chi^2$/NDF:20.1/18

Out: -0.033+/-0.040 $\chi^2$/NDF:17.4/23

All: -0.058+/-0.029 $\chi^2$/NDF: 38.2/42


asym_sam2_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected
300
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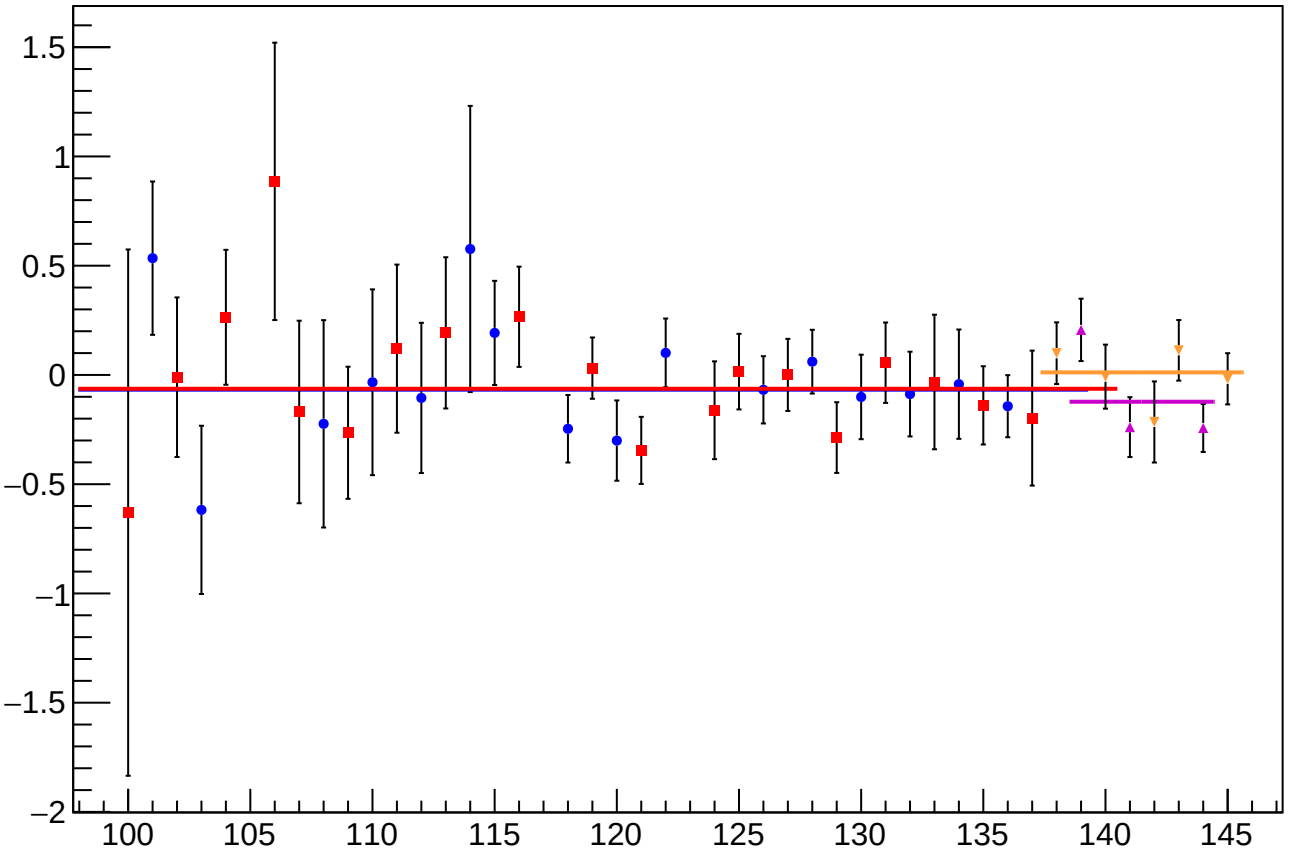
145
Right In: 128.377+/-0.037 χ²/NDF: 1805026.7/15
Left Out: 119.879+/-0.045 χ²/NDF:66362.4/4
Right Out: 129.396+/-0.036 χ²/NDF: 1888272.8/18
Left In: 117.662+/-0.052 χ²/NDF:67127.3/2
Left: 118.936+/-0.034 χ²/NDF: 134536.6/7
Right: 128.888+/-0.026 χ²/NDF: 3693688.1/34
In: 124.821+/-0.030 χ²/NDF:1900587.6/18
Out: 125.585+/-0.028 χ²/NDF:1981859.8/23
All: 125.225+/-0.021 χ²/NDF: 3882792.0/42




Right In: -0.067+/-0.052 $\chi^2$/NDF: 12.5/15

Left Out: 0.012+/-0.063 $\chi^2$/NDF:2.5/4

Right Out: -0.063+/-0.052 $\chi^2$/NDF: 14.0/18

Left In: -0.123+/-0.073 $\chi^2$/NDF:7.2/2

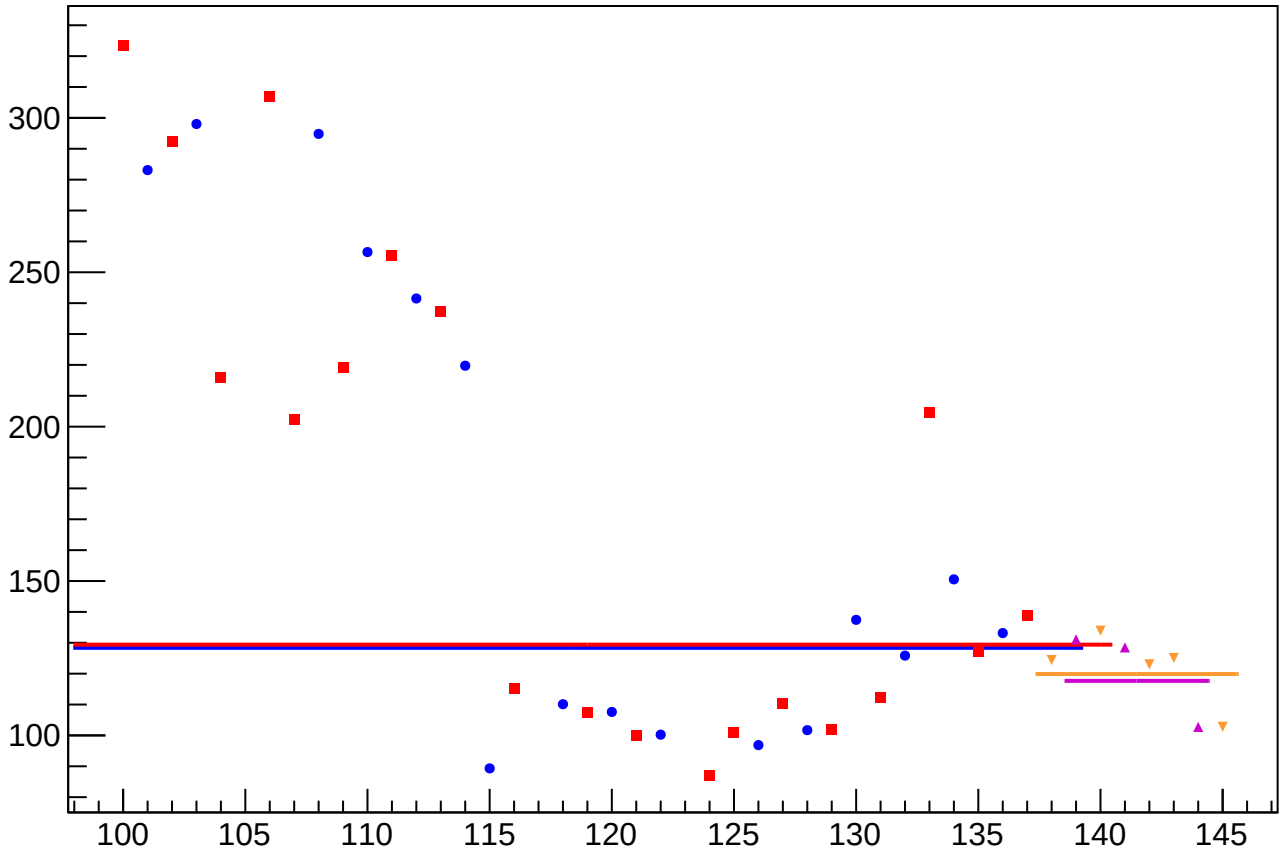
Left: -0.045+/-0.048 $\chi^2$/NDF: 11.6/7

Right: -0.065+/-0.037 $\chi^2$/NDF: 26.5/34

In: -0.086+/-0.042 $\chi^2$/NDF:20.1/18

Out: -0.033+/-0.040 $\chi^2$/NDF:17.4/23

All: -0.058+/-0.029 $\chi^2$/NDF: 38.2/42


asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
300
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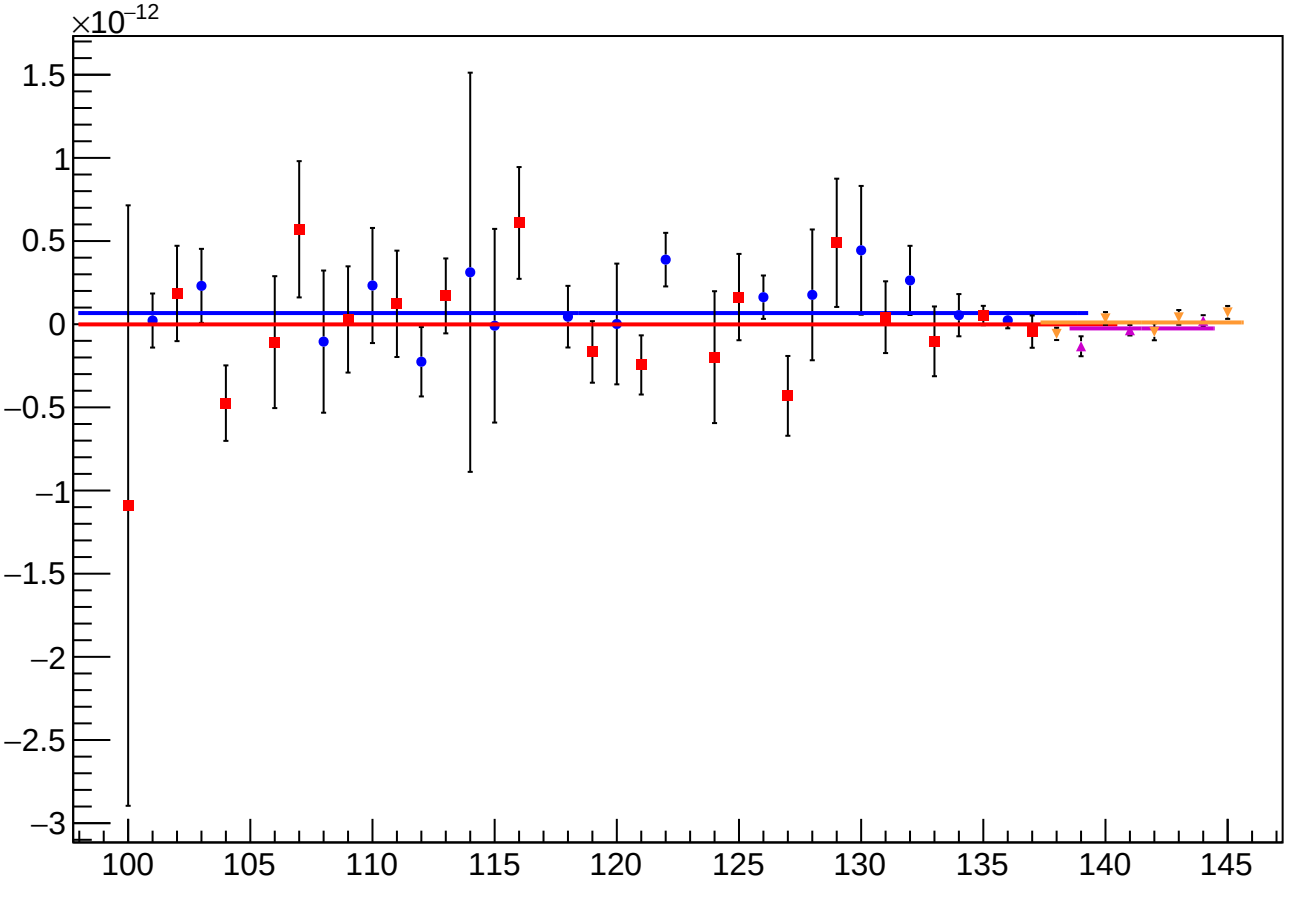
140
145
Right In: 128.377+/-0.037 χ²/NDF: 1805026.7/15
Left Out: 119.879+/-0.045 χ²/NDF:66362.4/4
Right Out: 129.396+/-0.036 χ²/NDF: 1888272.8/18
Left In: 117.662+/-0.052 χ²/NDF:67127.3/2
Left: 118.936+/-0.034 χ²/NDF: 134536.6/7
Right: 128.888+/-0.026 χ²/NDF: 3693688.1/34
In: 124.821+/-0.030 χ²/NDF:1900587.6/18
Out: 125.585+/-0.028 χ²/NDF:1981859.8/23
All: 125.225+/-0.021 χ²/NDF: 3882792.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.2/2

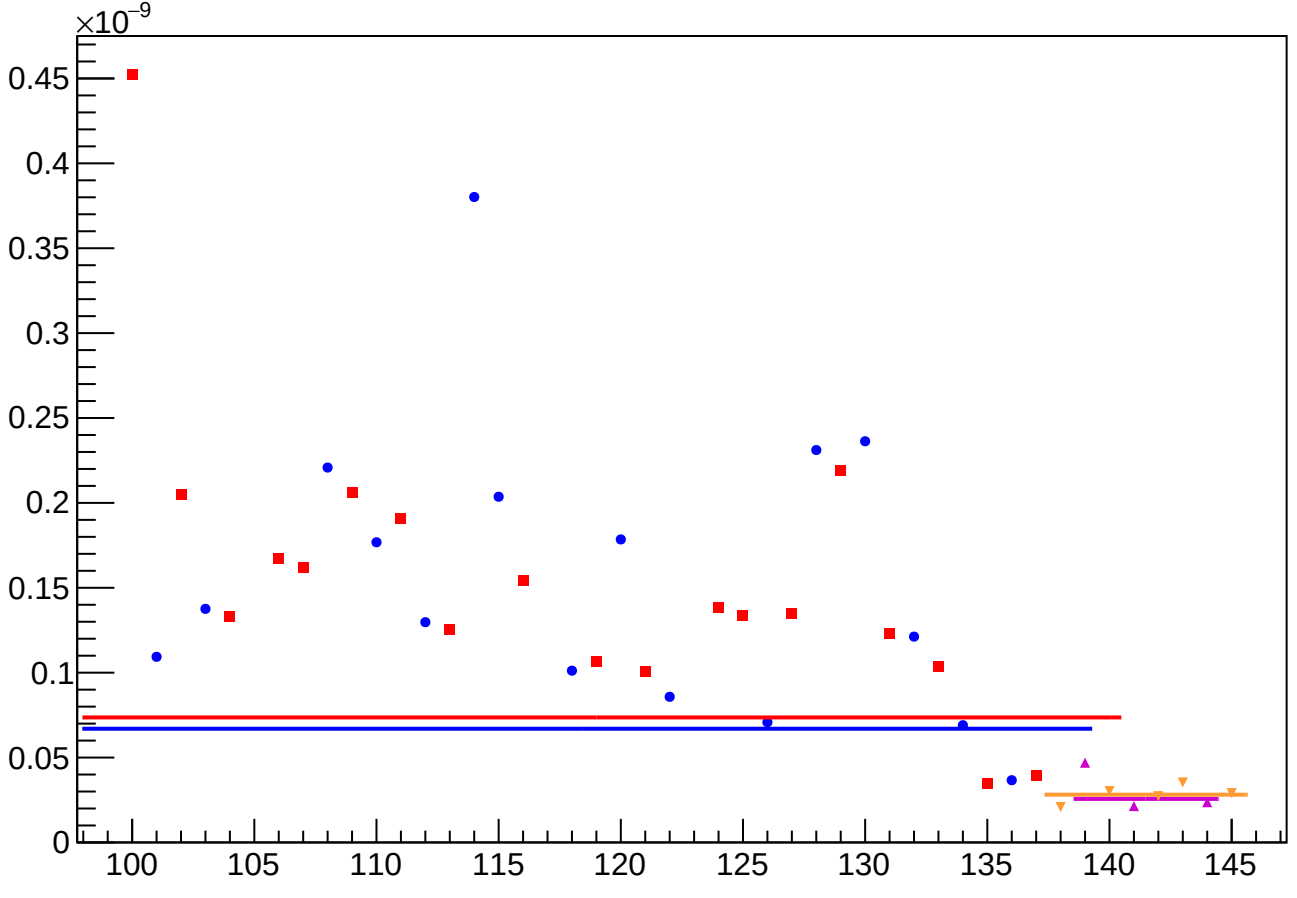
Left: -0.000+/-0.000 $\chi^2$/NDF: 14.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 32.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:28.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 49.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3180725.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:138594.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3653663.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:295354.9/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 449425.2/7

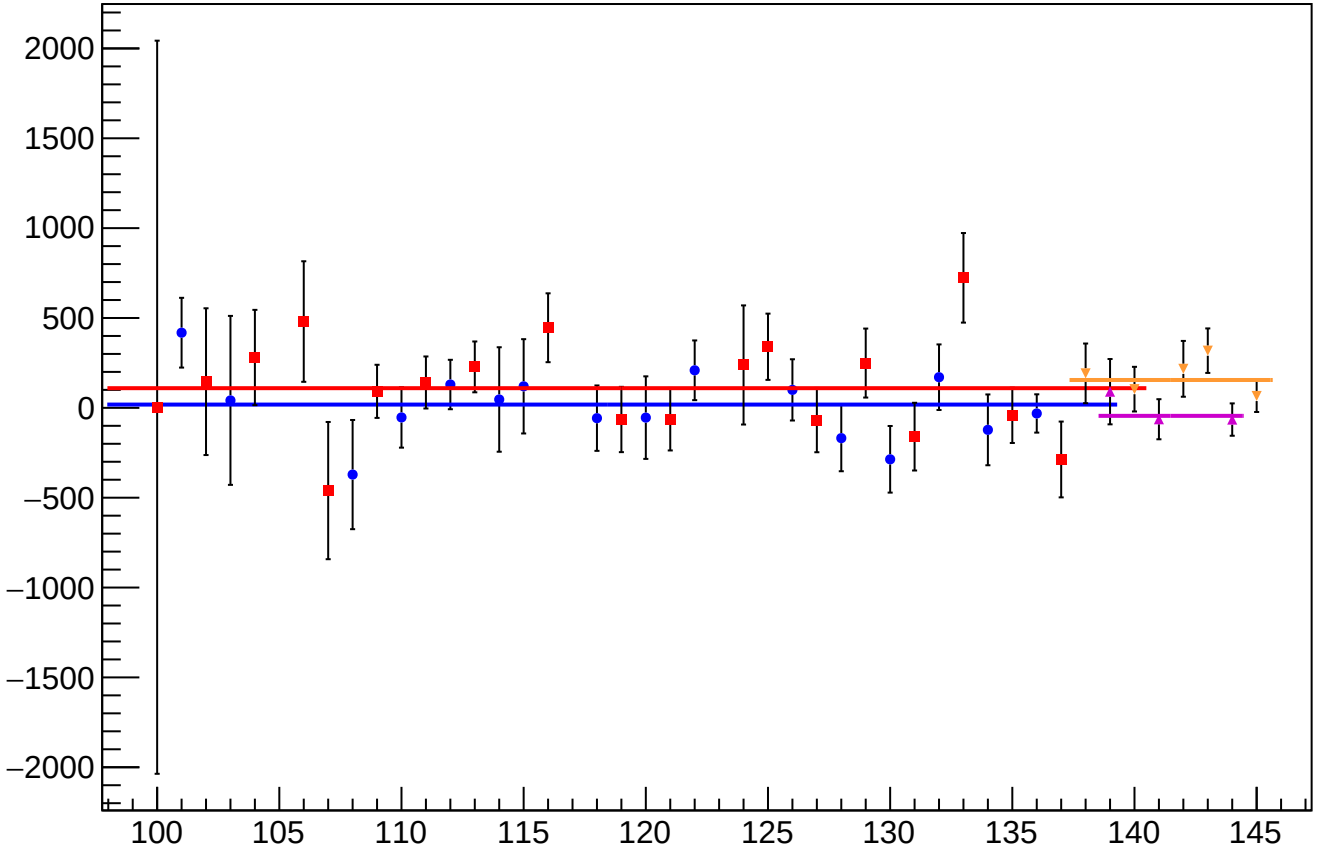
Right: 0.000+/-0.000 $\chi^2$/NDF: 6865290.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:5409874.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5984478.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11394525.5/42

# reg_asym_sam3_mean vs Slug, Sign Corrected




Right In: 18.204+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 155.020+/-54.723 $\chi^2$/NDF:3.1/4

Right Out: 109.432+/-45.825 $\chi^2$/NDF: 25.5/18

Left In: -44.549+/-65.372 $\chi^2$/NDF:0.6/2

Left: 72.792+/-41.962 $\chi^2$/NDF: 9.2/7

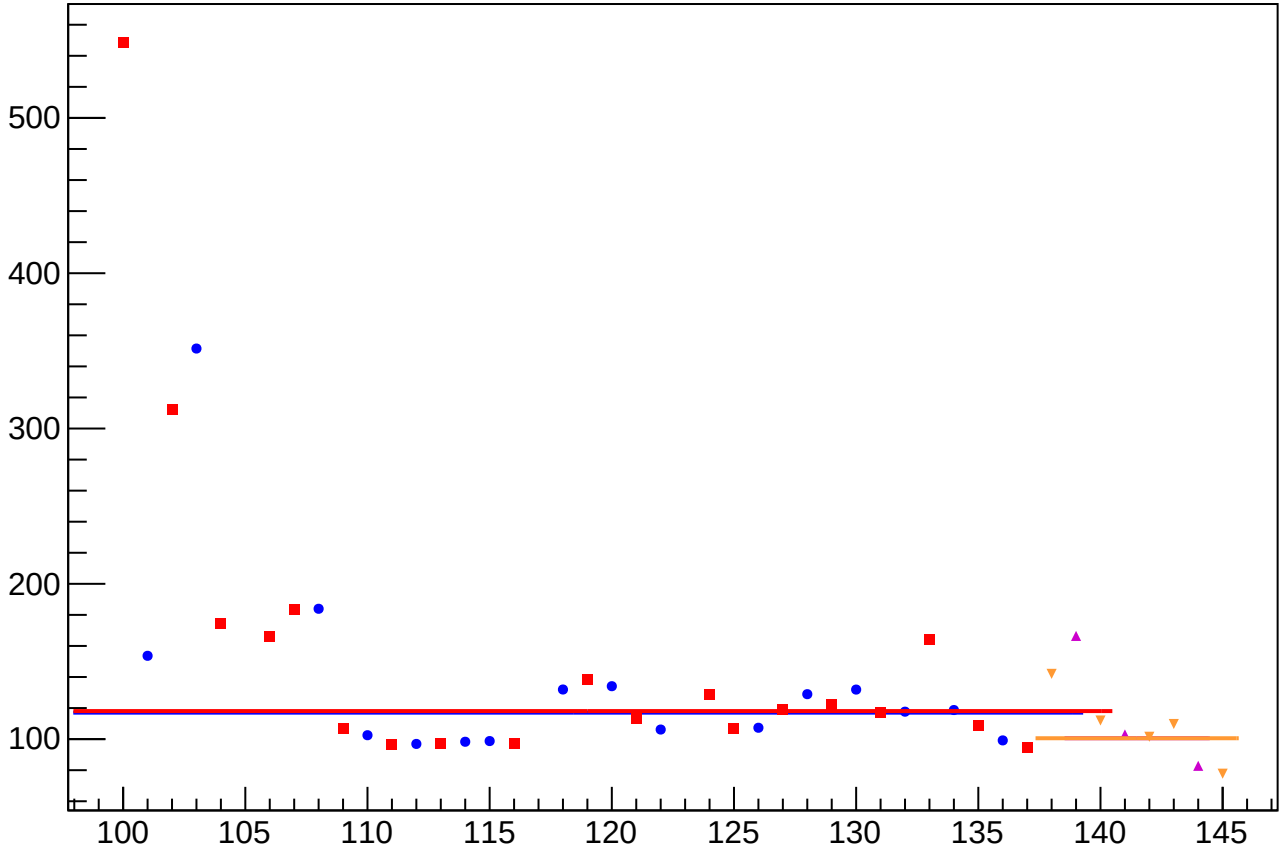
Right: 63.698+/-32.360 $\chi^2$/NDF: 41.3/34

In: -2.399+/-37.457 $\chi^2$/NDF:15.1/18

Out: 128.223+/-35.133 $\chi^2$/NDF:29.0/23

All: 67.090+/-25.625 $\chi^2$/NDF: 50.6/42

# reg_asym_sam3_rms vs Slug, Sign Corrected




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858400.8/15

Left Out: 100.569+/-0.039 $\chi^2$/NDF:284166.4/4

Right Out: 118.057+/-0.032 $\chi^2$/NDF: 990748.0/18

Left In: 100.581+/-0.046 $\chi^2$/NDF:341578.0/2

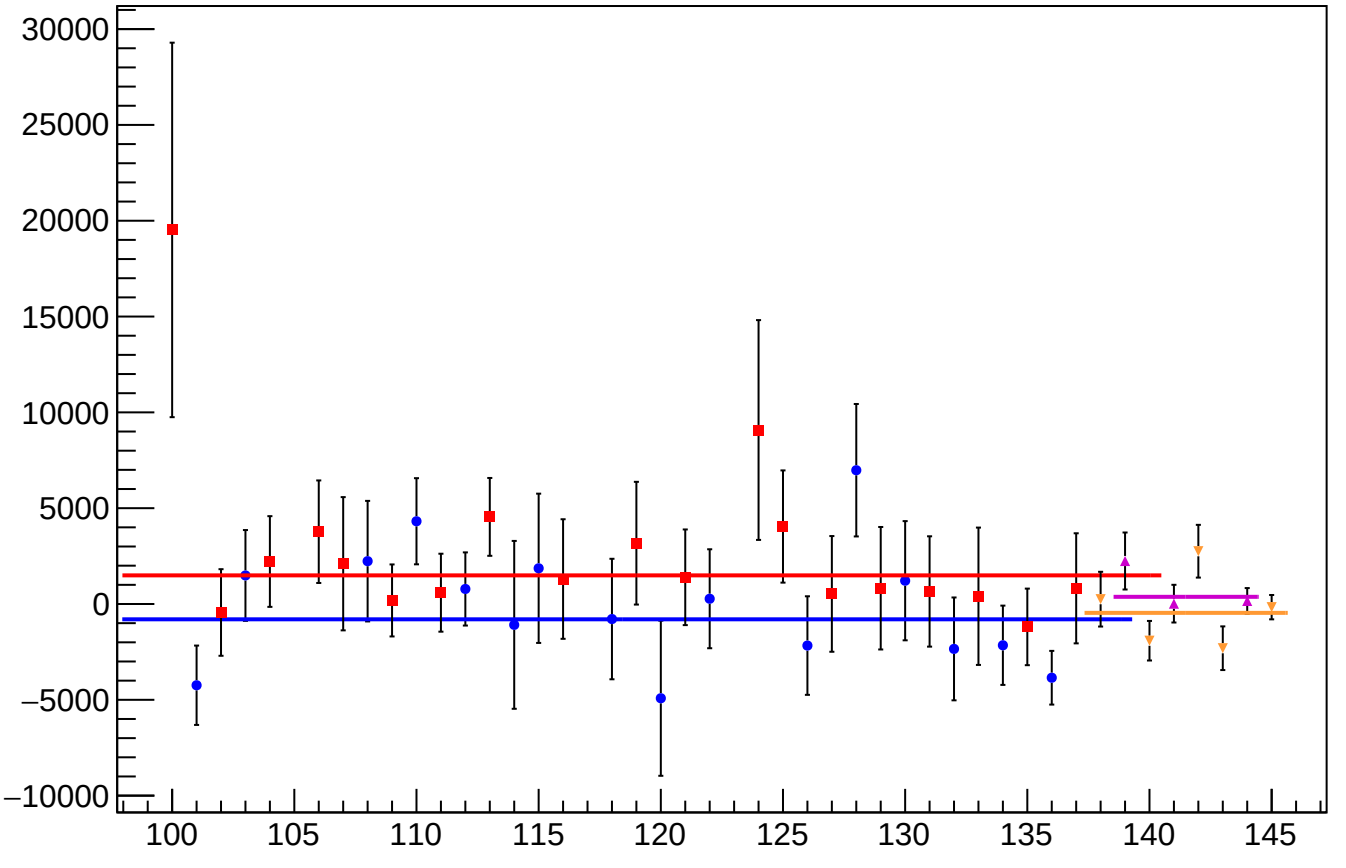
Left: 100.574+/-0.030 $\chi^2$/NDF: 625744.4/7

Right: 117.559+/-0.023 $\chi^2$/NDF: 1849621.4/34

In: 111.651+/-0.026 $\chi^2$/NDF:1285364.7/18

Out: 110.849+/-0.025 $\chi^2$/NDF:1394983.5/23

All: 111.225+/-0.018 $\chi^2$/NDF: 2680836.6/42




Right In: -799.133+/-616.009 $\chi^2$/NDF: 23.4/15

Left Out: -462.675+/-438.303 $\chi^2$/NDF:10.5/4

Right Out: 1493.897+/-613.097 $\chi^2$/NDF: 12.9/18

Left In: 374.361+/-519.535 $\chi^2$/NDF:1.8/2

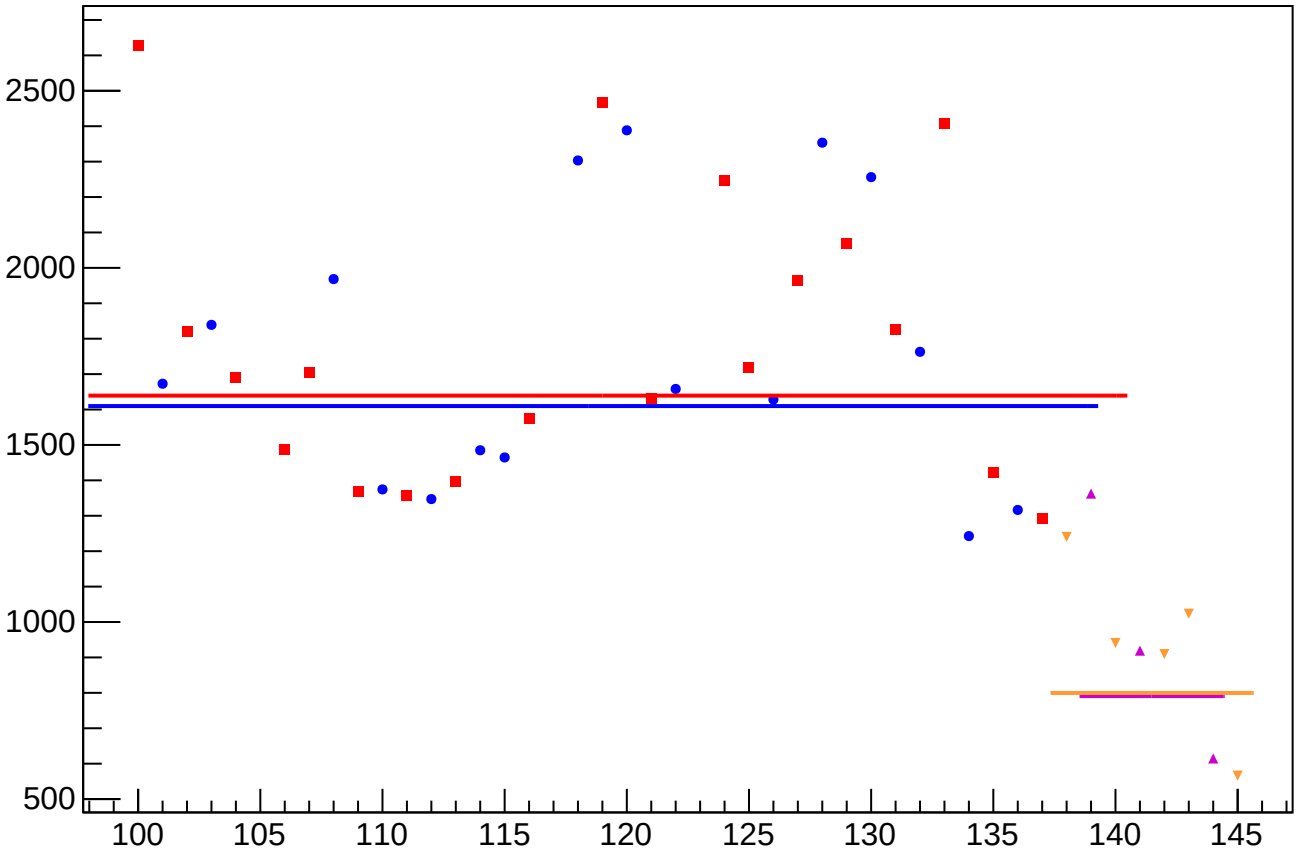
Left: -114.637+/-335.009 $\chi^2$/NDF: 13.9/7

Right: 352.815+/-434.551 $\chi^2$/NDF: 43.3/34

In: -113.402+/-397.147 $\chi^2$/NDF:27.4/18

Out: 199.082+/-356.558 $\chi^2$/NDF:30.2/23

All: 59.619+/-265.318 $\chi^2$/NDF: 57.9/42




Right In: 1609.782+/-0.436 $\chi^2$/NDF: 619129.2/15

Left Out: 799.672+/-0.310 $\chi^2$/NDF:587721.9/4

Right Out: 1639.241+/-0.434 $\chi^2$/NDF: 520182.2/18

Left In: 790.938+/-0.367 $\chi^2$/NDF:467518.3/2

Left: 796.040+/-0.237 $\chi^2$/NDF: 1055570.4/7

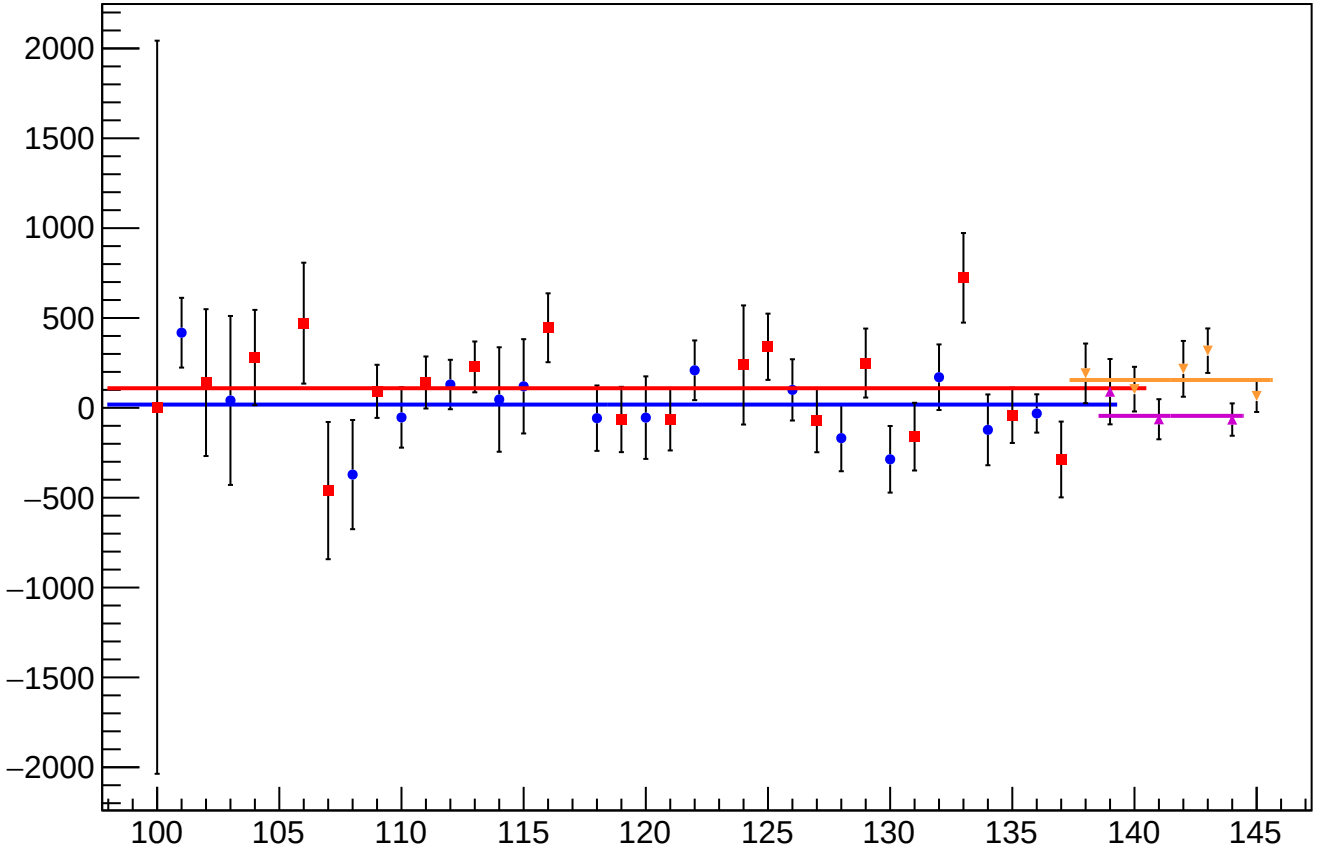
Right: 1624.581+/-0.307 $\chi^2$/NDF: 1141609.2/34

In: 1131.290+/-0.281 $\chi^2$/NDF:3151697.2/18

Out: 1083.633+/-0.252 $\chi^2$/NDF:3589875.3/23

All: 1104.903+/-0.188 $\chi^2$/NDF: 6757518.9/42

# cor_asym_sam3_mean vs Slug, Sign Corrected




Right In: 18.191+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 155.028+/-54.723 $\chi^2$/NDF:3.1/4

Right Out: 109.151+/-45.828 $\chi^2$/NDF: 25.4/18

Left In: -44.547+/-65.372 $\chi^2$/NDF:0.6/2

Left: 72.798+/-41.962 $\chi^2$/NDF: 9.2/7

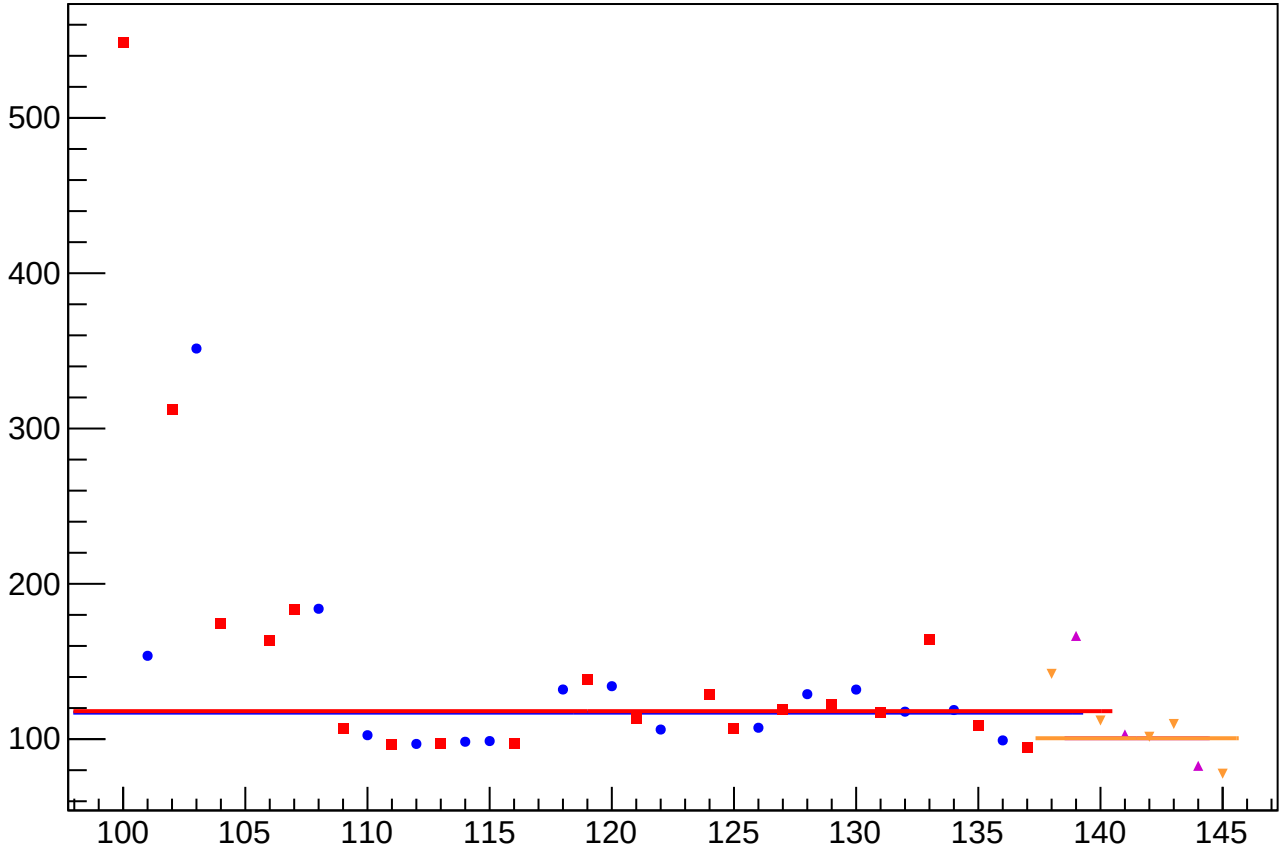
Right: 63.548+/-32.361 $\chi^2$/NDF: 41.2/34

In: -2.407+/-37.457 $\chi^2$/NDF:15.1/18

Out: 128.062+/-35.135 $\chi^2$/NDF:28.9/23

All: 66.998+/-25.626 $\chi^2$/NDF: 50.5/42

# cor_asym_sam3_rms vs Slug, Sign Corrected




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858402.8/15

Left Out: 100.569+/-0.039 $\chi^2$/NDF:284166.4/4

Right Out: 118.006+/-0.032 $\chi^2$/NDF: 986553.8/18

Left In: 100.581+/-0.046 $\chi^2$/NDF:341578.0/2

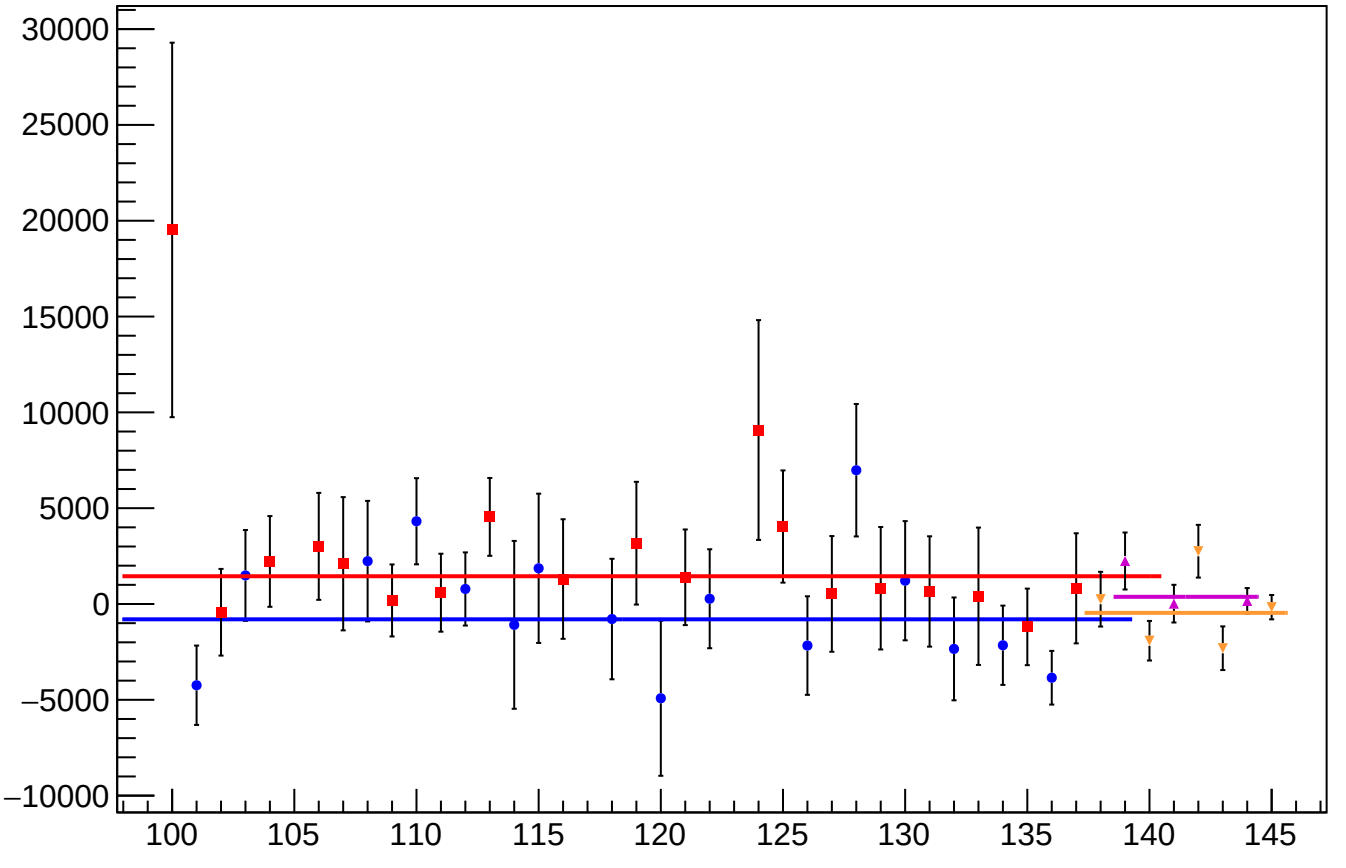
Left: 100.574+/-0.030 $\chi^2$/NDF: 625744.4/7

Right: 117.533+/-0.023 $\chi^2$/NDF: 1845381.4/34

In: 111.651+/-0.026 $\chi^2$/NDF:1285366.7/18

Out: 110.818+/-0.025 $\chi^2$/NDF:1390072.8/23

All: 111.208+/-0.018 $\chi^2$/NDF: 2675966.4/42




Right In: -799.116+/-616.014 $\chi^2$/NDF: 23.4/15

Left Out: -462.666+/-438.303 $\chi^2$/NDF:10.5/4

Right Out: 1448.433+/-614.443 $\chi^2$/NDF: 12.5/18

Left In: 374.368+/-519.535 $\chi^2$/NDF:1.8/2

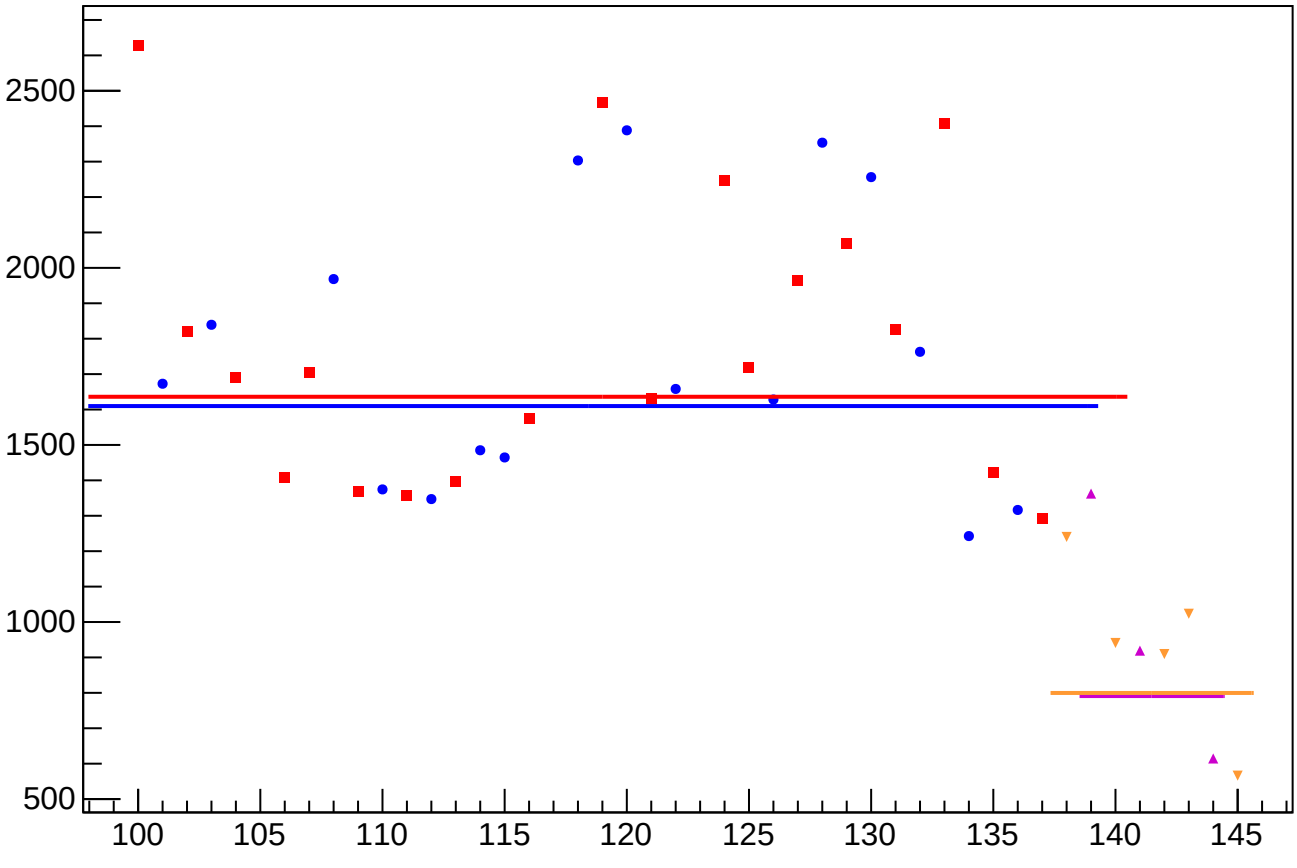
Left: -114.629+/-335.009 $\chi^2$/NDF: 13.9/7

Right: 327.528+/-435.031 $\chi^2$/NDF: 42.6/34

In: -113.387+/-397.148 $\chi^2$/NDF:27.4/18

Out: 181.836+/-356.822 $\chi^2$/NDF:29.4/23

All: 49.969+/-265.427 $\chi^2$/NDF: 57.1/42




Right In: 1609.791+/-0.436 $\chi^2$/NDF: 619158.3/15

Left Out: 799.671+/-0.310 $\chi^2$/NDF:587721.6/4

Right Out: 1636.046+/-0.434 $\chi^2$/NDF: 527809.9/18

Left In: 790.938+/-0.367 $\chi^2$/NDF:467518.9/2

Left: 796.040+/-0.237 $\chi^2$/NDF: 1055570.6/7

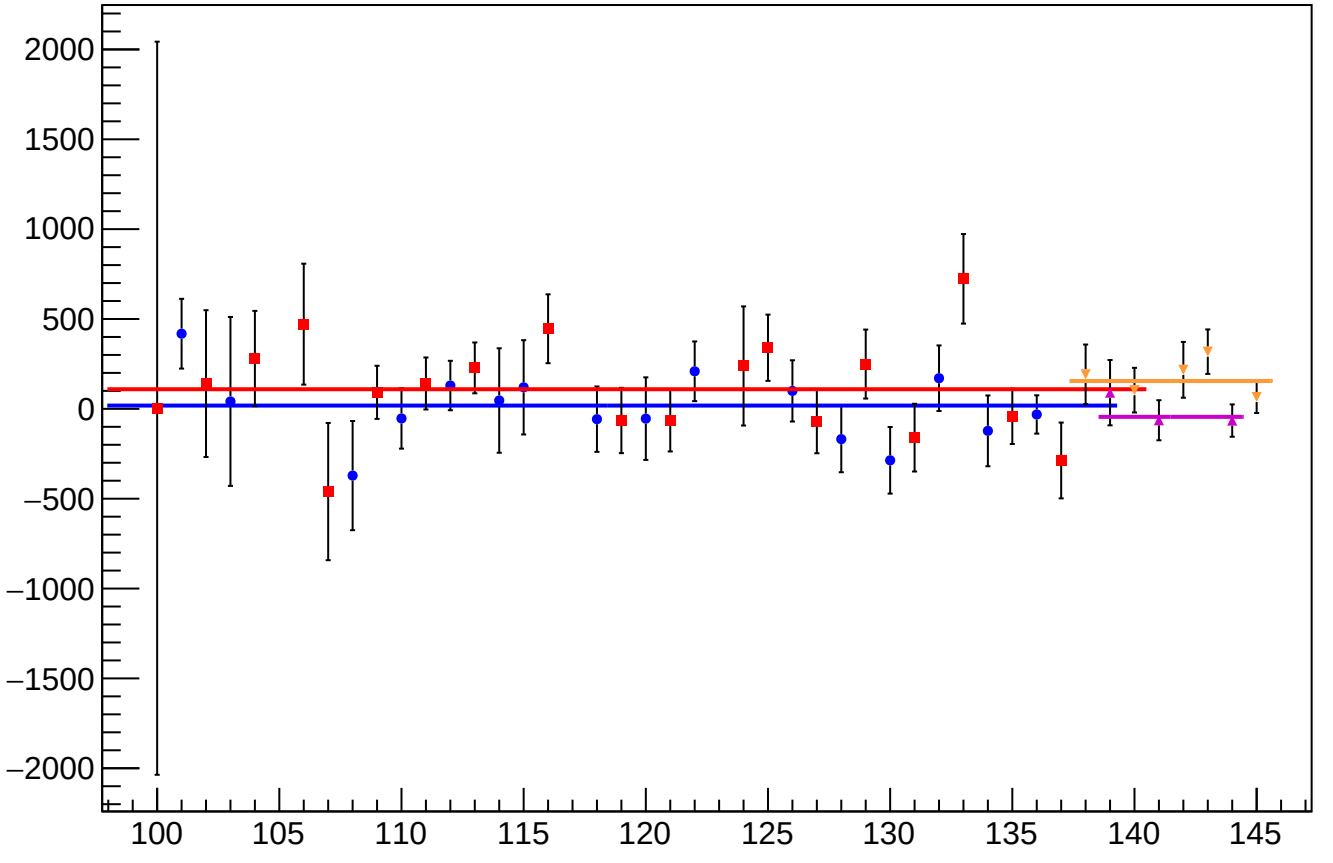
Right: 1622.952+/-0.308 $\chi^2$/NDF: 1148789.4/34

In: 1131.292+/-0.281 $\chi^2$/NDF:3151754.5/18

Out: 1081.731+/-0.252 $\chi^2$/NDF:3571506.5/23

All: 1103.868+/-0.188 $\chi^2$/NDF: 6740494.8/42

# eigen_cor_asym_sam3_mean vs Slug, Sign Corrected




Right In: 18.191+/-45.704 $\chi^2$/NDF: 13.9/15

Left Out: 155.028+/-54.723 $\chi^2$/NDF:3.1/4

Right Out: 109.151+/-45.828 $\chi^2$/NDF: 25.4/18

Left In: -44.547+/-65.372 $\chi^2$/NDF:0.6/2

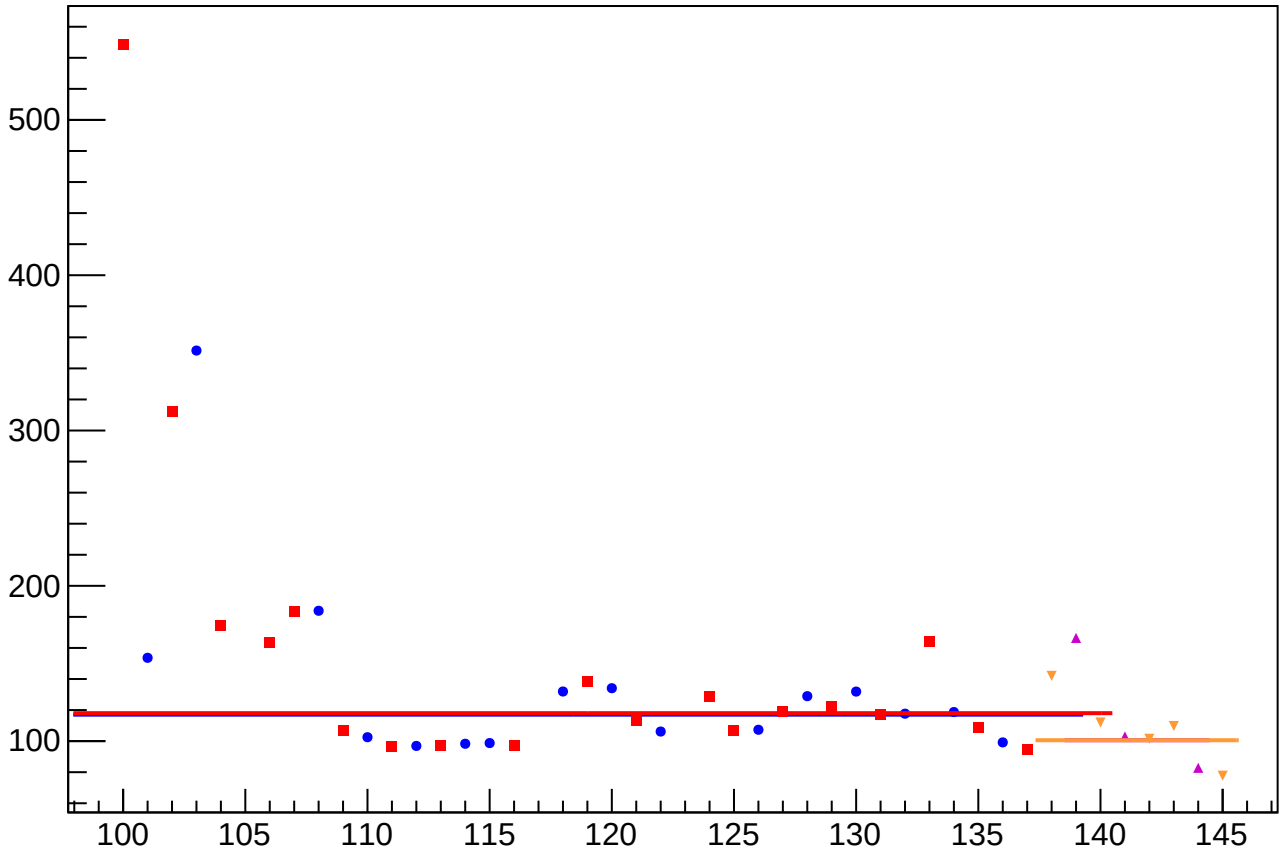
Left: 72.798+/-41.962 $\chi^2$/NDF: 9.2/7

Right: 63.548+/-32.361 $\chi^2$/NDF: 41.2/34

In: -2.407+/-37.457 $\chi^2$/NDF:15.1/18

Out: 128.062+/-35.135 $\chi^2$/NDF:28.9/23

All: 66.998+/-25.626 $\chi^2$/NDF: 50.5/42




Right In: 117.063+/-0.032 $\chi^2$/NDF: 858402.8/15

Left Out: 100.569+/-0.039 $\chi^2$/NDF:284166.4/4

Right Out: 118.006+/-0.032 $\chi^2$/NDF: 986553.8/18

Left In: 100.581+/-0.046 $\chi^2$/NDF:341578.0/2

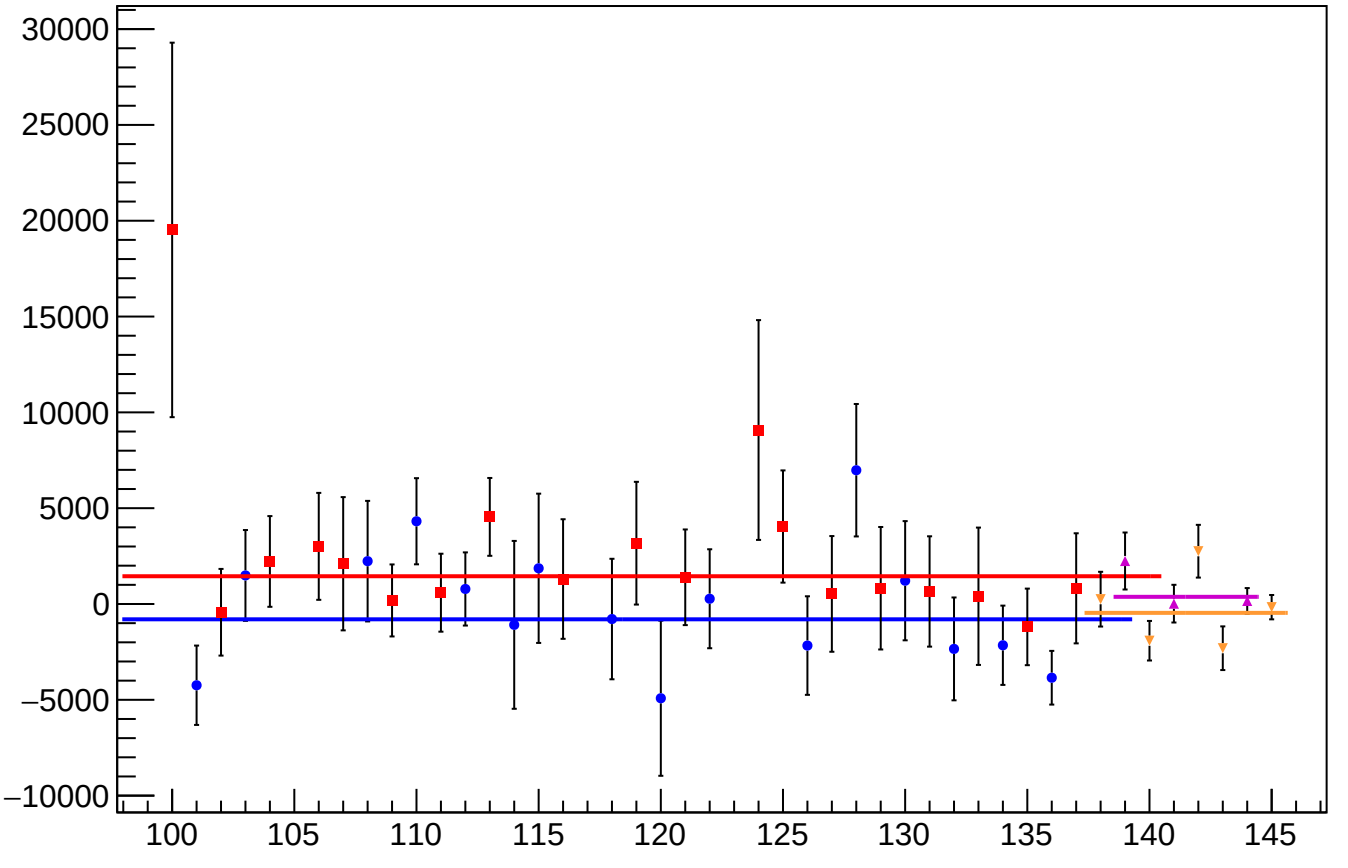
Left: 100.574+/-0.030 $\chi^2$/NDF: 625744.4/7

Right: 117.533+/-0.023 $\chi^2$/NDF: 1845381.4/34

In: 111.651+/-0.026 $\chi^2$/NDF:1285366.7/18

Out: 110.818+/-0.025 $\chi^2$/NDF:1390072.8/23

All: 111.208+/-0.018 $\chi^2$/NDF: 2675966.4/42




Right In: -799.116+/-616.014 $\chi^2$/NDF: 23.4/15

Left Out: -462.666+/-438.303 $\chi^2$/NDF:10.5/4

Right Out: 1448.433+/-614.443 $\chi^2$/NDF: 12.5/18

Left In: 374.368+/-519.535 $\chi^2$/NDF:1.8/2

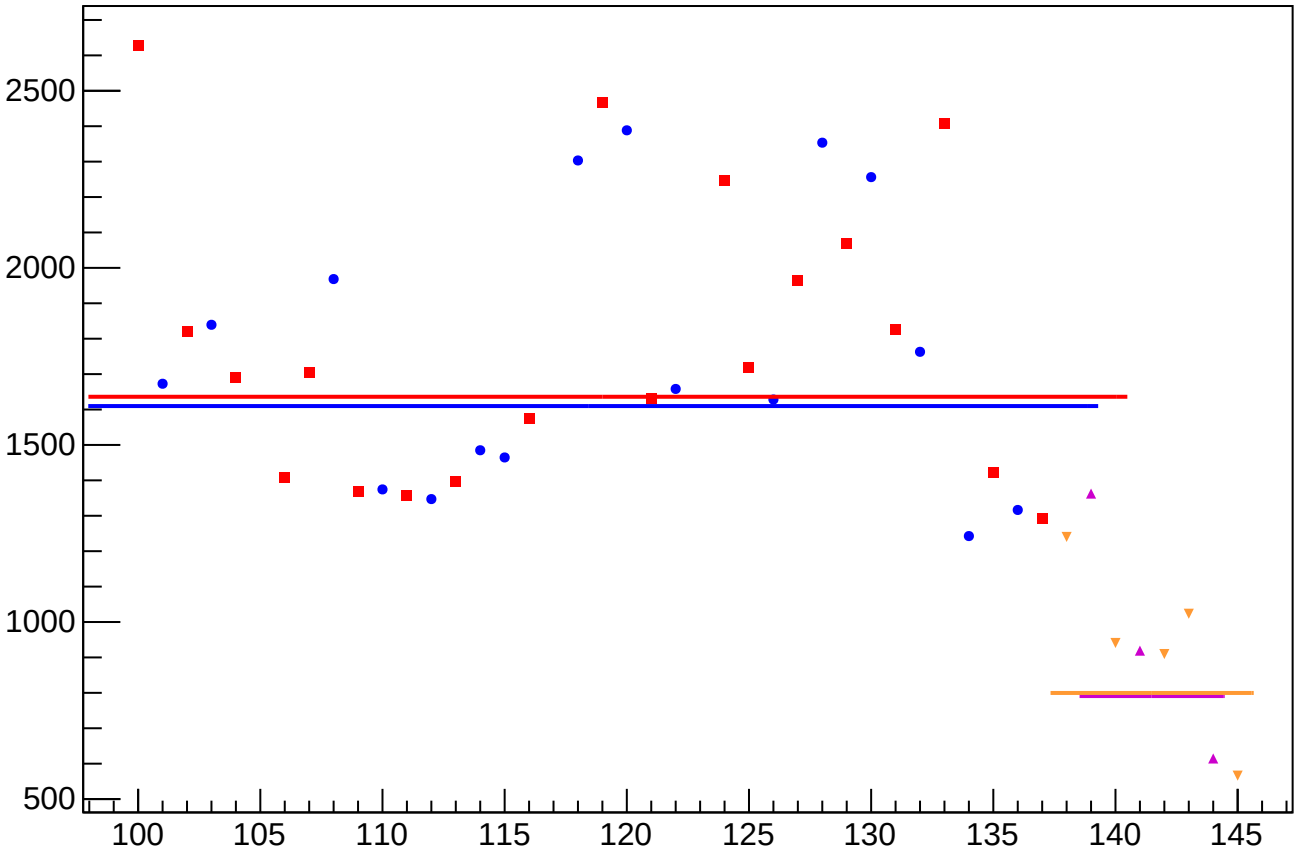
Left: -114.629+/-335.009 $\chi^2$/NDF: 13.9/7

Right: 327.528+/-435.031 $\chi^2$/NDF: 42.6/34

In: -113.387+/-397.148 $\chi^2$/NDF:27.4/18

Out: 181.836+/-356.822 $\chi^2$/NDF:29.4/23

All: 49.969+/-265.427 $\chi^2$/NDF: 57.1/42




Right In: 1609.791+/-0.436 $\chi^2$/NDF: 619158.3/15

Left Out: 799.671+/-0.310 $\chi^2$/NDF:587721.6/4

Right Out: 1636.046+/-0.434 $\chi^2$/NDF: 527809.9/18

Left In: 790.938+/-0.367 $\chi^2$/NDF:467518.9/2

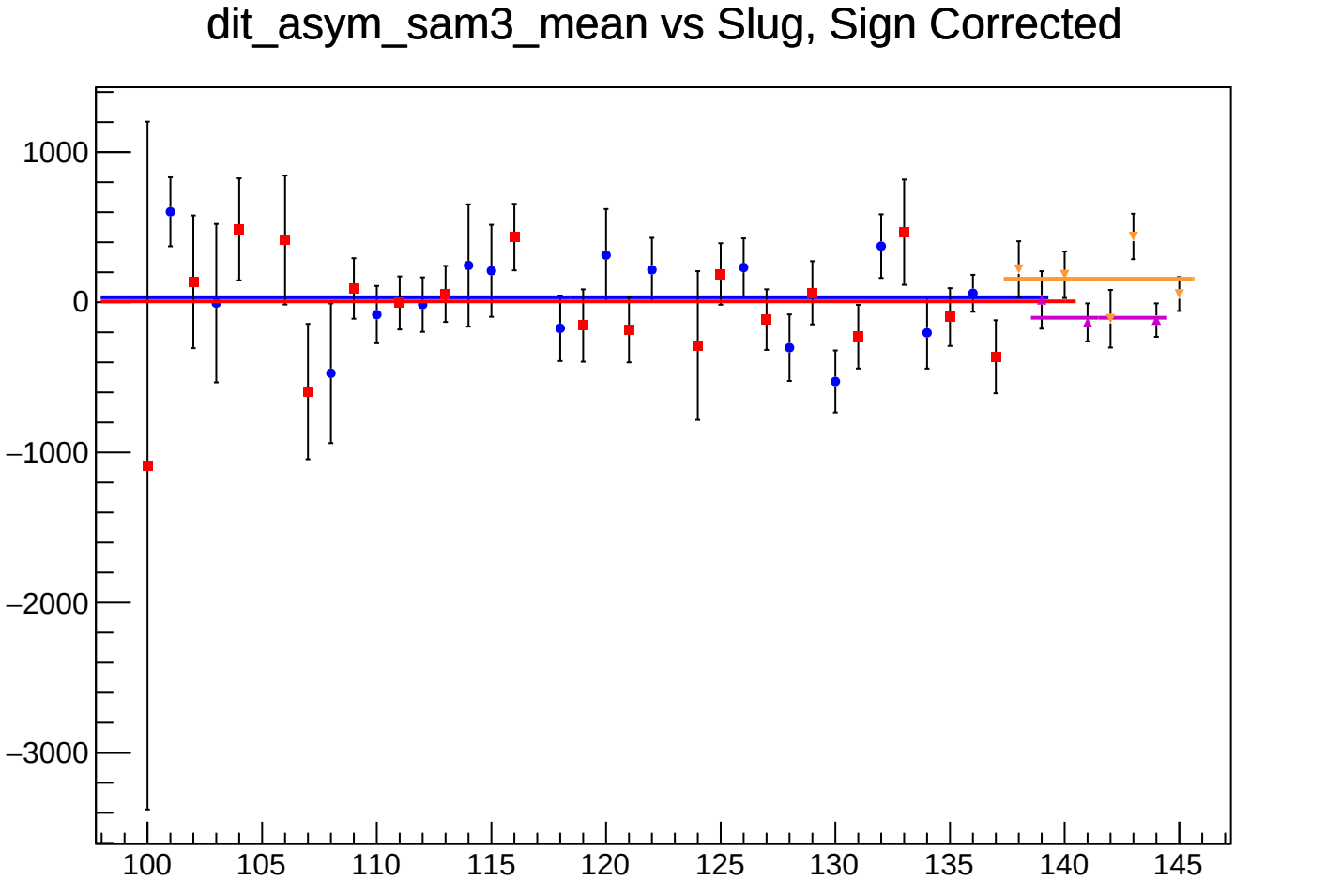
Left: 796.040+/-0.237 $\chi^2$/NDF: 1055570.6/7

Right: 1622.952+/-0.308 $\chi^2$/NDF: 1148789.4/34

In: 1131.292+/-0.281 $\chi^2$/NDF:3151754.5/18

Out: 1081.731+/-0.252 $\chi^2$/NDF:3571506.5/23

All: 1103.868+/-0.188 $\chi^2$/NDF: 6740494.8/42




Right In: 33.471+/-54.908 $\chi^2$/NDF: 25.2/15

Left Out: 157.120+/-67.422 $\chi^2$/NDF:6.3/4

Right Out: 6.107+/-56.090 $\chi^2$/NDF: 17.3/18

Left In: -102.671+/-76.526 $\chi^2$/NDF:0.5/2

Left: 43.588+/-50.589 $\chi^2$/NDF: 13.3/7

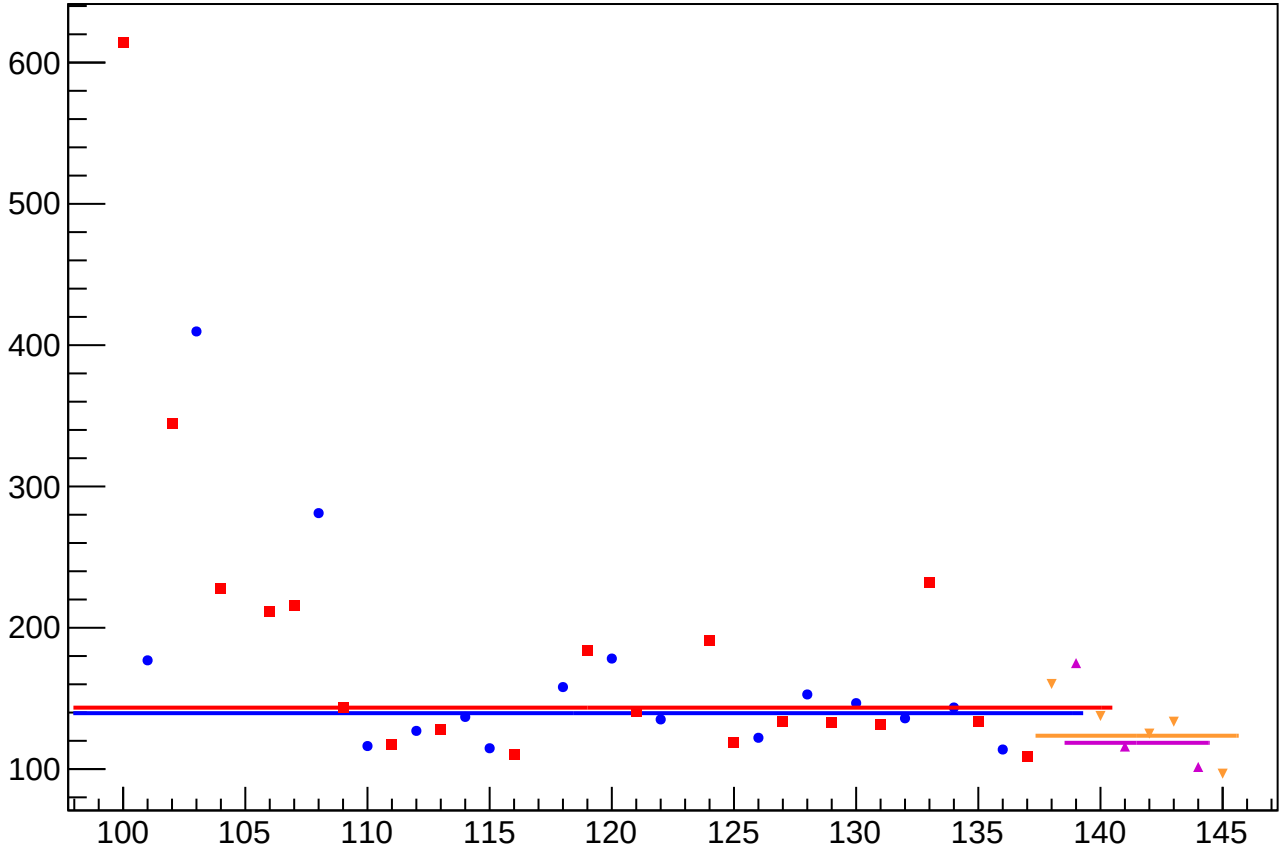
Right: 20.080+/-39.237 $\chi^2$/NDF: 42.6/34

In: -12.798+/-44.612 $\chi^2$/NDF:27.7/18

Out: 67.874+/-43.120 $\chi^2$/NDF:26.6/23

All: 28.910+/-31.004 $\chi^2$/NDF: 56.0/42

# dit_asym_sam3_rms vs Slug, Sign Corrected




Right In: 139.566+/-0.039 $\chi^2$/NDF: 976734.6/15

Left Out: 123.607+/-0.048 $\chi^2$/NDF:215967.6/4

Right Out: 143.479+/-0.040 $\chi^2$/NDF: 1116671.9/18

Left In: 118.588+/-0.054 $\chi^2$/NDF:222162.0/2

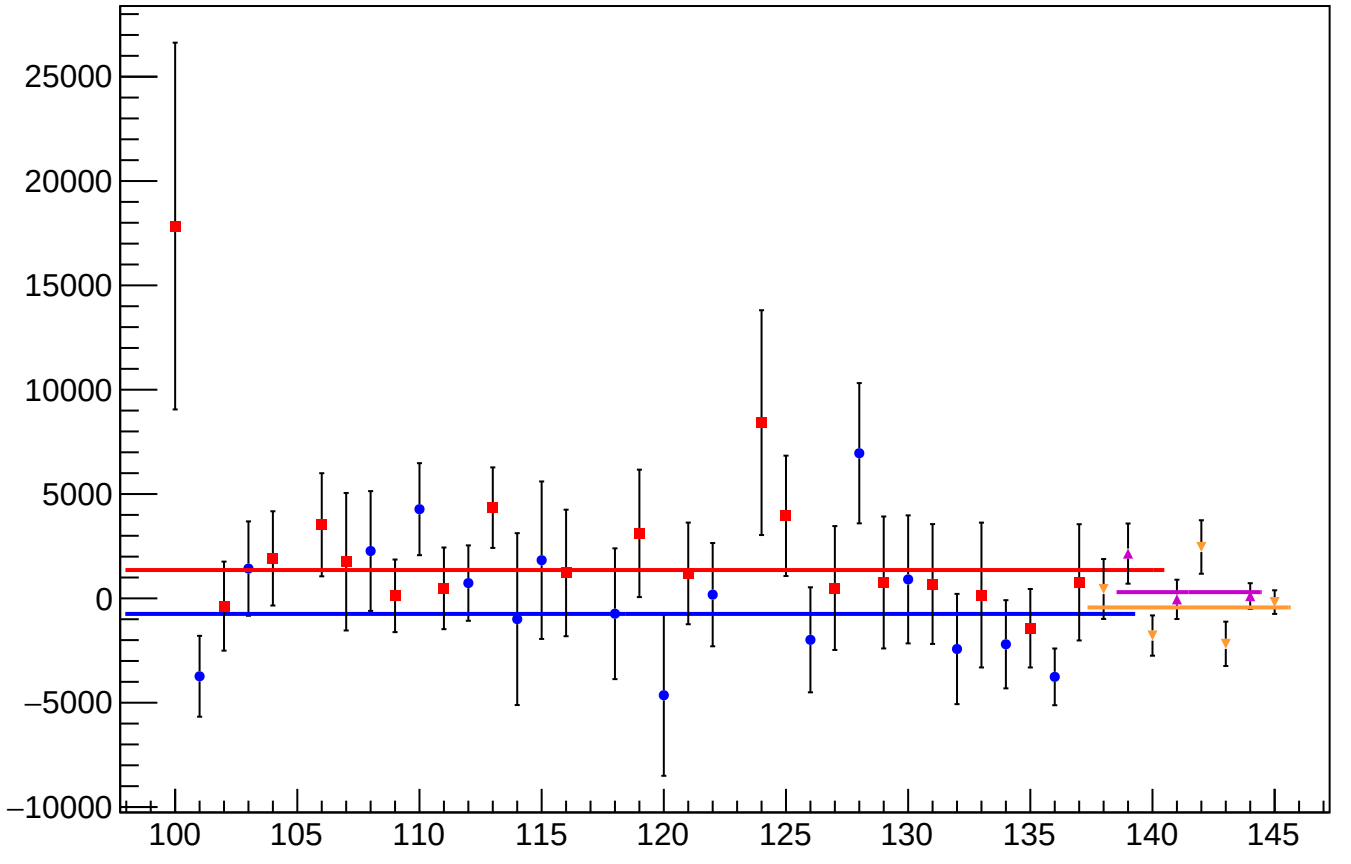
Left: 121.414+/-0.036 $\chi^2$/NDF: 442972.9/7

Right: 141.481+/-0.028 $\chi^2$/NDF: 2098376.6/34

In: 132.437+/-0.032 $\chi^2$/NDF:1298113.8/18

Out: 135.351+/-0.030 $\chi^2$/NDF:1435318.4/23

All: 133.944+/-0.022 $\chi^2$/NDF: 2737844.9/42




Right In: -744.681+/-595.810 $\chi^2$/NDF: 23.5/15

Left Out: -434.920+/-402.410 $\chi^2$/NDF:10.3/4

Right Out: 1357.874+/-585.808 $\chi^2$/NDF: 13.5/18

Left In: 298.949+/-486.388 $\chi^2$/NDF:1.9/2

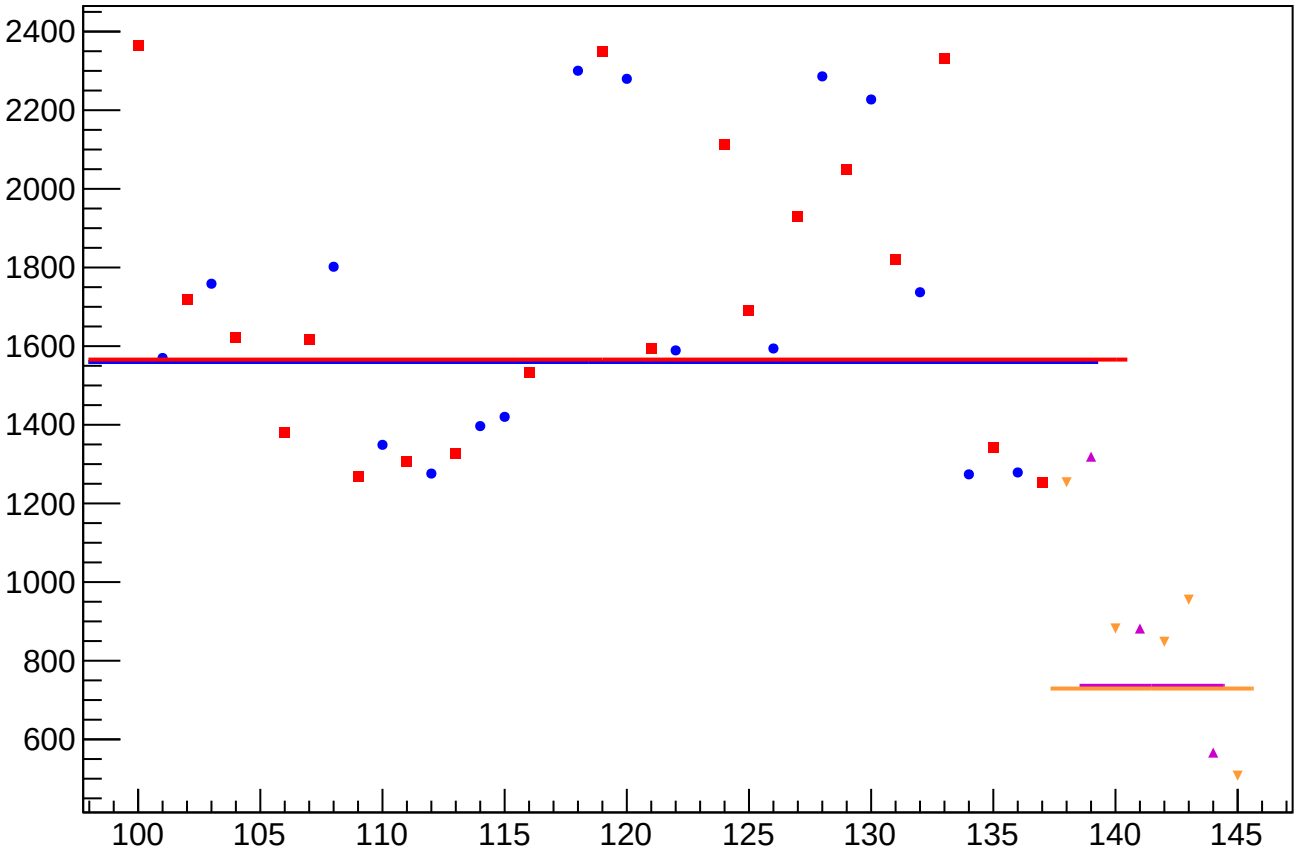
Left: -136.711+/-310.052 $\chi^2$/NDF: 13.6/7

Right: 324.392+/-417.720 $\chi^2$/NDF: 43.3/34

In: -118.412+/-376.782 $\chi^2$/NDF:27.2/18

Out: 139.841+/-331.691 $\chi^2$/NDF:30.2/23

All: 27.085+/-248.965 $\chi^2$/NDF: 57.7/42




Right In: 1559.735+/-0.421 $\chi^2$/NDF: 604209.5/15

Left Out: 729.299+/-0.285 $\chi^2$/NDF:731384.3/4

Right Out: 1565.808+/-0.414 $\chi^2$/NDF: 563847.8/18

Left In: 736.229+/-0.344 $\chi^2$/NDF:525590.0/2

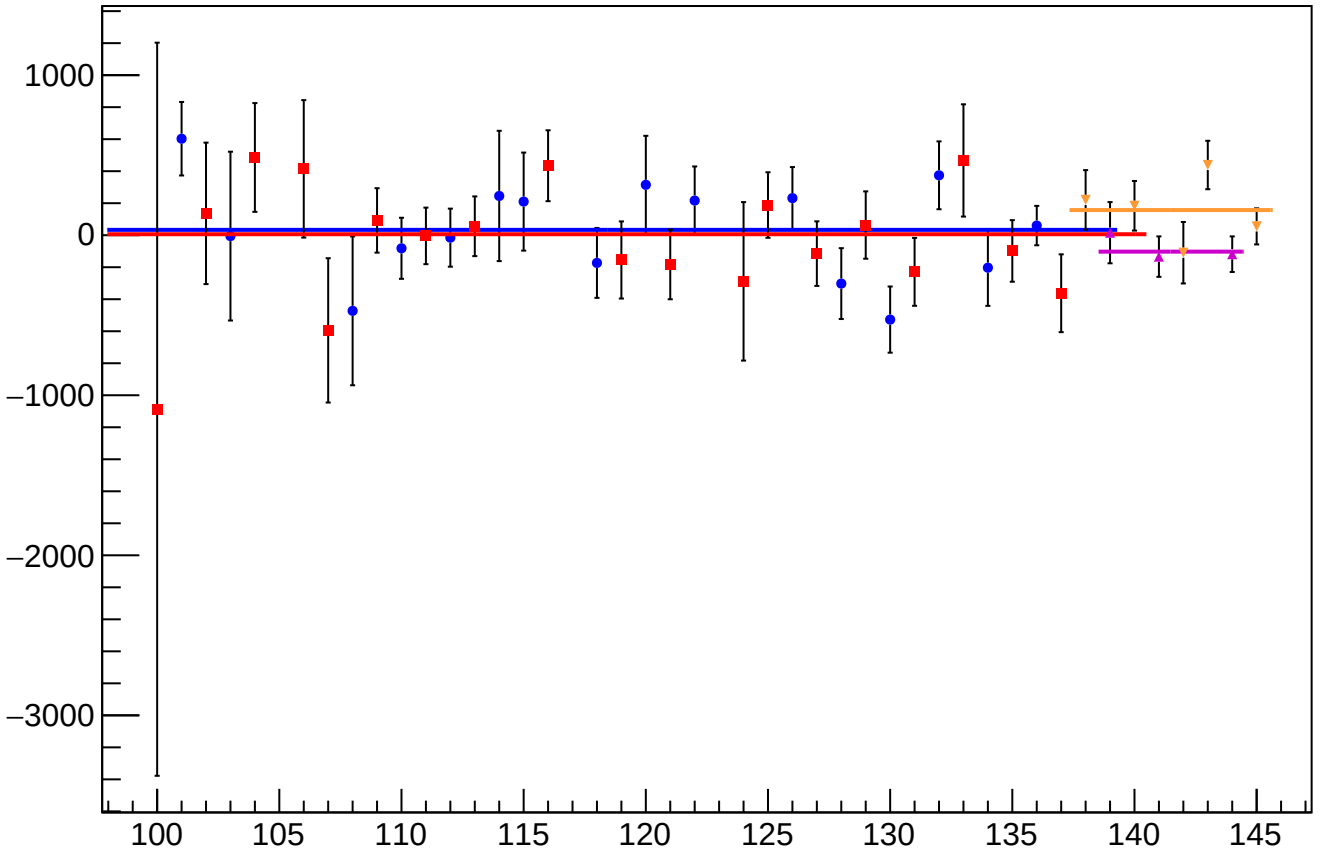
Left: 732.115+/-0.219 $\chi^2$/NDF: 1257215.3/7

Right: 1562.823+/-0.295 $\chi^2$/NDF: 1168163.0/34

In: 1065.559+/-0.266 $\chi^2$/NDF:3422585.6/18

Out: 997.479+/-0.235 $\chi^2$/NDF:4065931.6/23

All: 1027.204+/-0.176 $\chi^2$/NDF: 7525304.3/42




Right In: 33.469+/-54.908 $\chi^2$/NDF: 25.2/15

Left Out: 157.118+/-67.423 $\chi^2$/NDF:6.3/4

Right Out: 6.103+/-56.090 $\chi^2$/NDF: 17.3/18

Left In: -102.670+/-76.526 $\chi^2$/NDF:0.5/2

Left: 43.587+/-50.589 $\chi^2$/NDF: 13.3/7

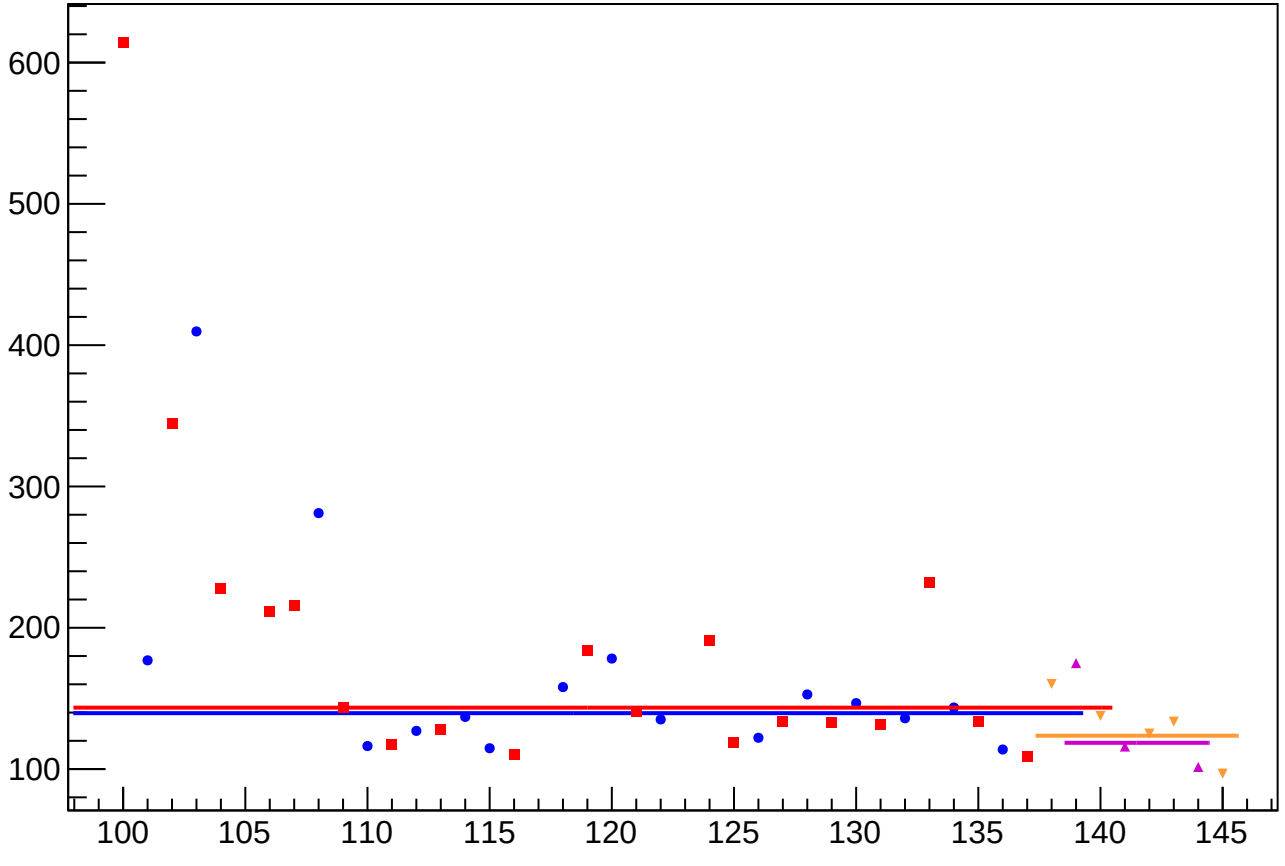
Right: 20.078+/-39.237 $\chi^2$/NDF: 42.6/34

In: -12.798+/-44.612 $\chi^2$/NDF:27.7/18

Out: 67.870+/-43.120 $\chi^2$/NDF:26.6/23

All: 28.908+/-31.004 $\chi^2$/NDF: 56.0/42

# eigen_dit_asym_sam3_rms vs Slug, Sign Corrected




Right In: 139.567+/-0.039 $\chi^2$/NDF: 976737.0/15

Left Out: 123.608+/-0.048 $\chi^2$/NDF:215971.0/4

Right Out: 143.480+/-0.040 $\chi^2$/NDF: 1116678.4/18

Left In: 118.589+/-0.054 $\chi^2$/NDF:222160.1/2

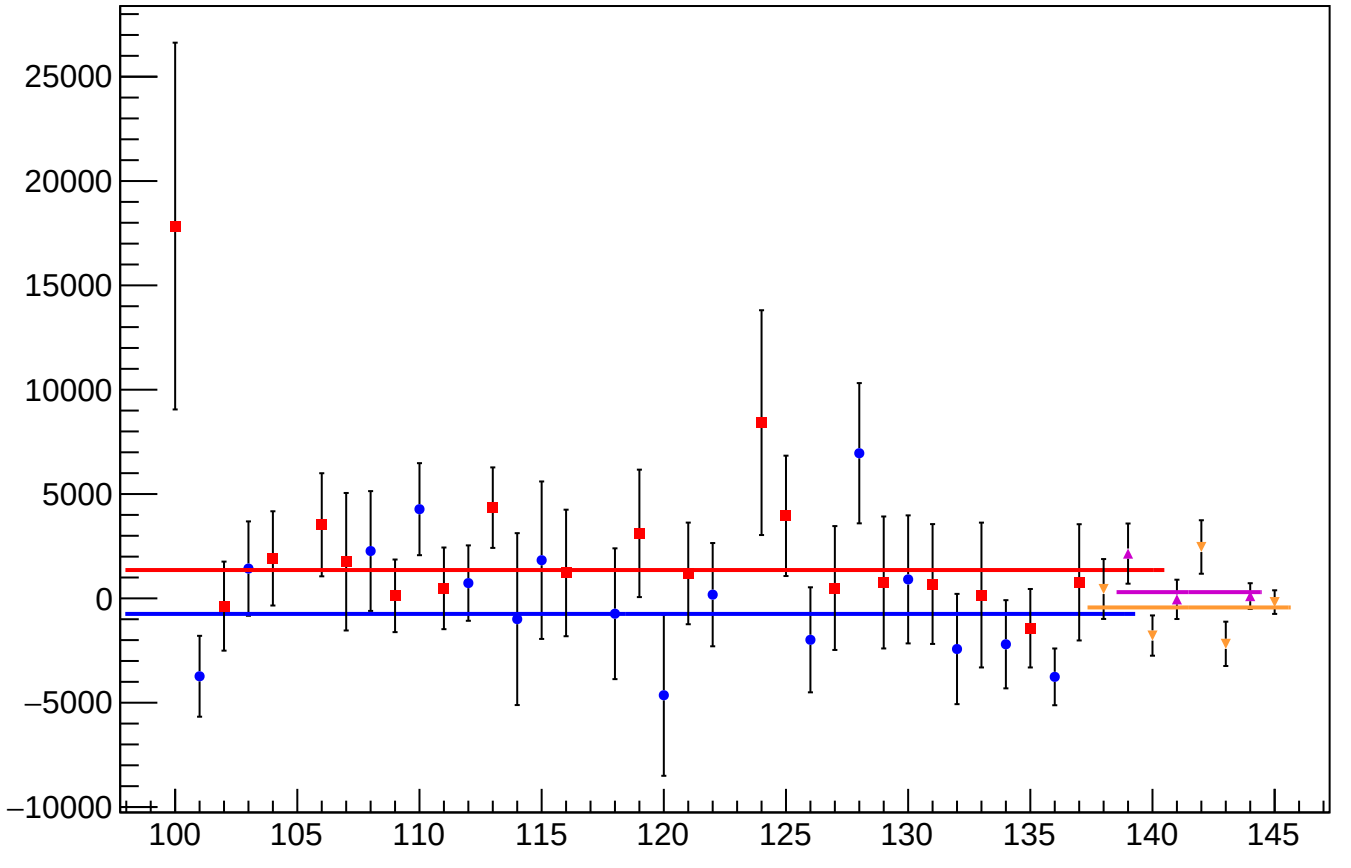
Left: 121.414+/-0.036 $\chi^2$/NDF: 442974.9/7

Right: 141.482+/-0.028 $\chi^2$/NDF: 2098386.0/34

In: 132.437+/-0.032 $\chi^2$/NDF:1298115.1/18

Out: 135.352+/-0.030 $\chi^2$/NDF:1435327.6/23

All: 133.944+/-0.022 $\chi^2$/NDF: 2737856.1/42




Right In: -744.678+/-595.809 $\chi^2$/NDF: 23.5/15

Left Out: -434.924+/-402.410 $\chi^2$/NDF:10.3/4

Right Out: 1357.874+/-585.807 $\chi^2$/NDF: 13.5/18

Left In: 298.949+/-486.388 $\chi^2$/NDF:1.9/2

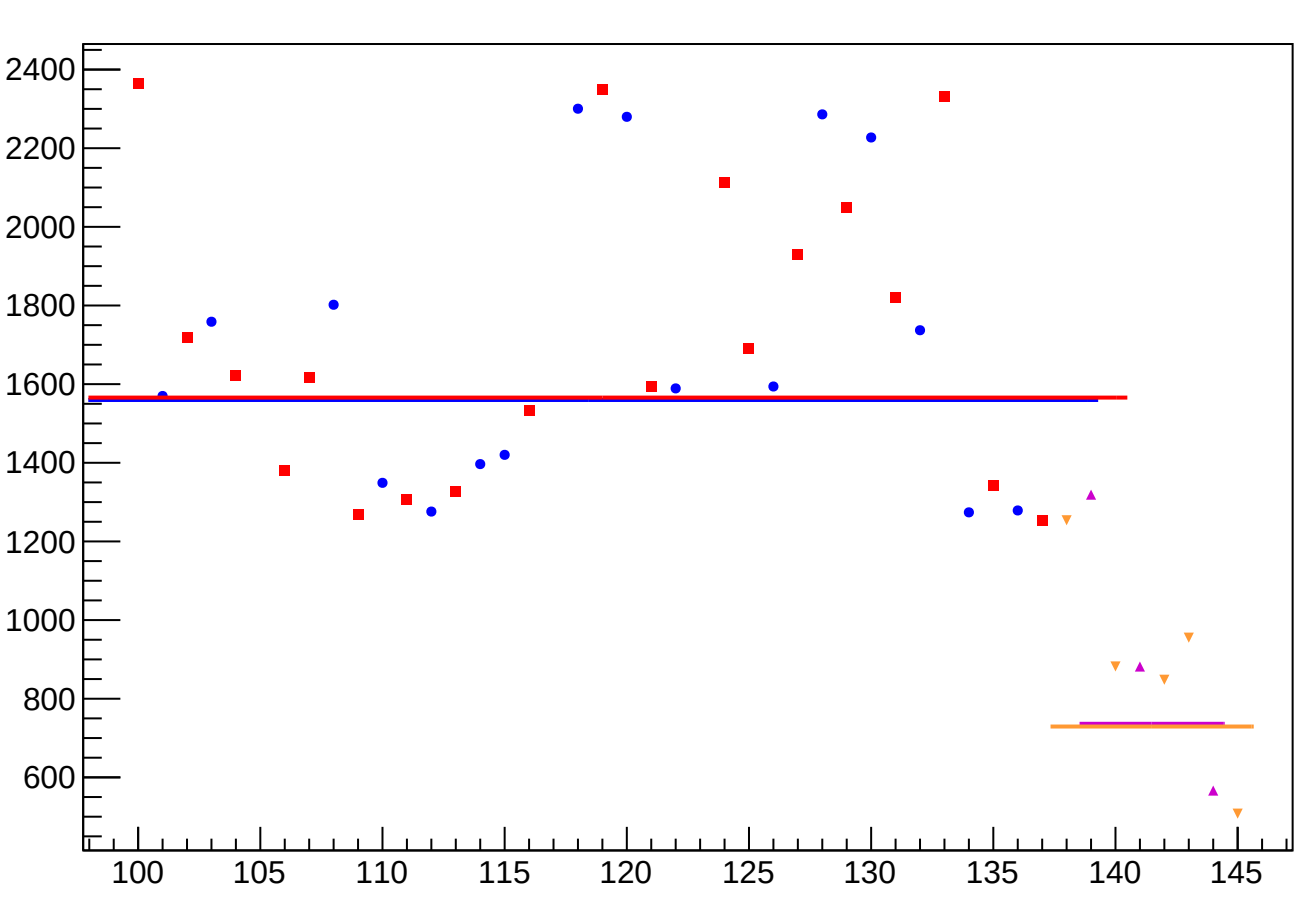
Left: -136.714+/-310.051 $\chi^2$/NDF: 13.6/7

Right: 324.394+/-417.720 $\chi^2$/NDF: 43.3/34

In: -118.411+/-376.782 $\chi^2$/NDF:27.2/18

Out: 139.838+/-331.691 $\chi^2$/NDF:30.2/23

All: 27.084+/-248.964 $\chi^2$/NDF: 57.7/42




Right In: 1559.734+/-0.421 $\chi^2$/NDF: 604209.8/15

Left Out: 729.298+/-0.285 $\chi^2$/NDF:731385.0/4

Right Out: 1565.806+/-0.414 $\chi^2$/NDF: 563845.7/18

Left In: 736.228+/-0.344 $\chi^2$/NDF:525590.7/2

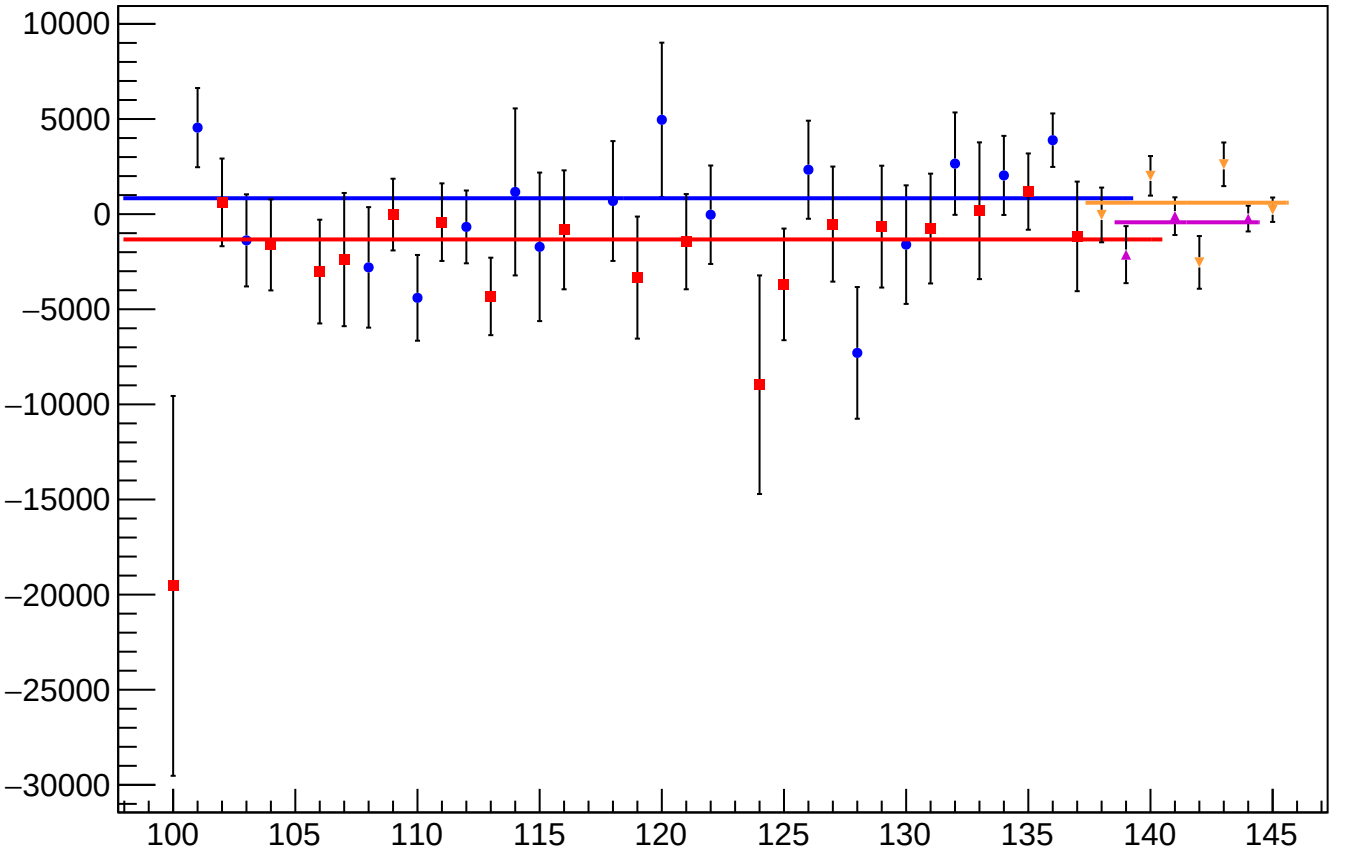
Left: 732.114+/-0.219 $\chi^2$/NDF: 1257216.7/7

Right: 1562.821+/-0.295 $\chi^2$/NDF: 1168161.1/34

In: 1065.559+/-0.266 $\chi^2$/NDF:3422583.4/18

Out: 997.479+/-0.235 $\chi^2$/NDF:4065927.4/23

All: 1027.203+/-0.176 $\chi^2$/NDF: 7525298.4/42




Right In: 835.496+/-618.780 $\chi^2$/NDF: 24.9/15

Left Out: 601.176+/-442.068 $\chi^2$/NDF:10.6/4

Right Out: -1329.538+/-616.428 $\chi^2$/NDF: 12.1/18

Left In: -428.776+/-523.948 $\chi^2$/NDF:1.5/2

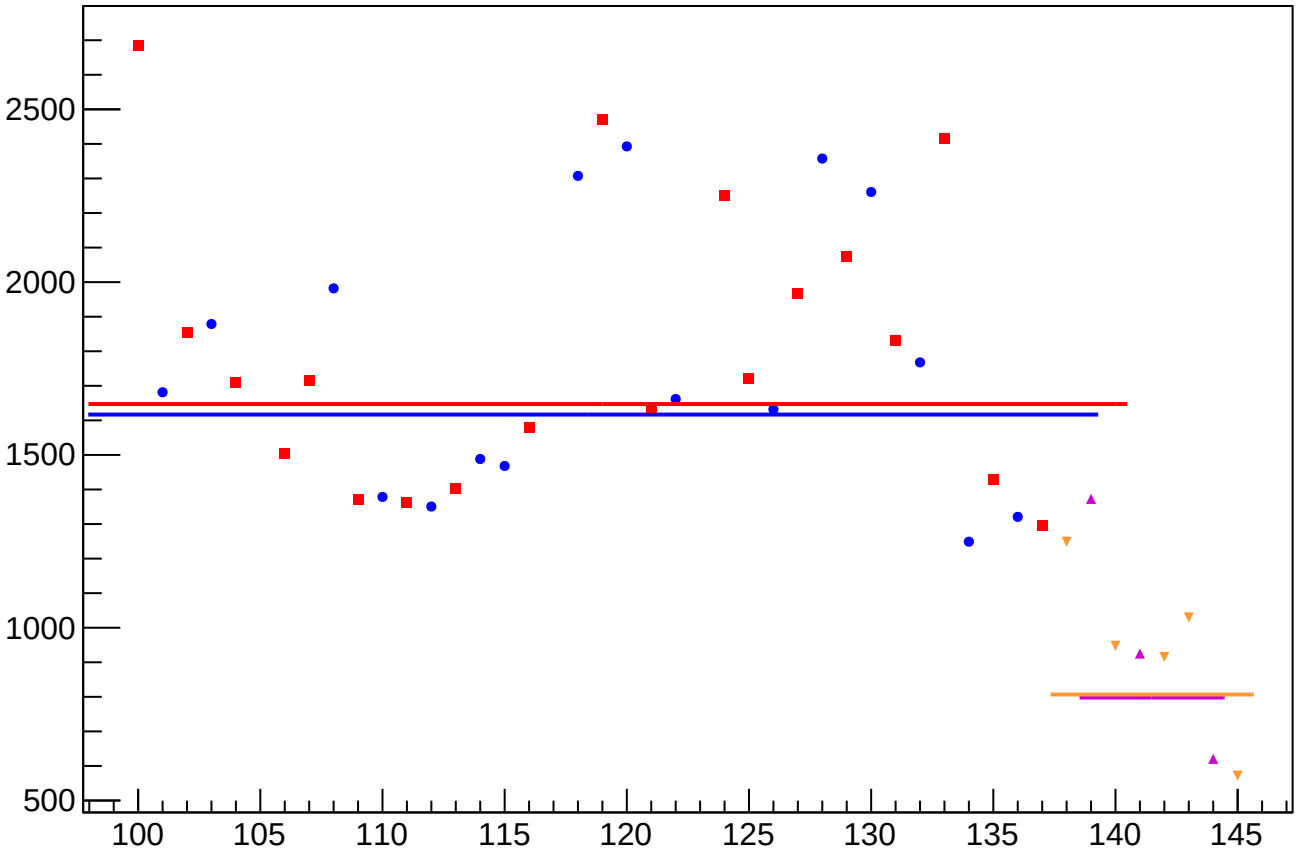
Left: 172.877+/-337.873 $\chi^2$/NDF: 14.3/7

Right: -251.145+/-436.710 $\chi^2$/NDF: 43.2/34

In: 99.159+/-399.859 $\chi^2$/NDF:28.8/18

Out: -54.549+/-359.239 $\chi^2$/NDF:29.2/23

All: 14.104+/-267.231 $\chi^2$/NDF: 58.1/42




Right In: 1616.804+/-0.438 $\chi^2$/NDF: 622271.0/15

Left Out: 806.802+/-0.313 $\chi^2$/NDF:581034.7/4

Right Out: 1647.227+/-0.436 $\chi^2$/NDF: 523860.9/18

Left In: 797.946+/-0.370 $\chi^2$/NDF:464444.1/2

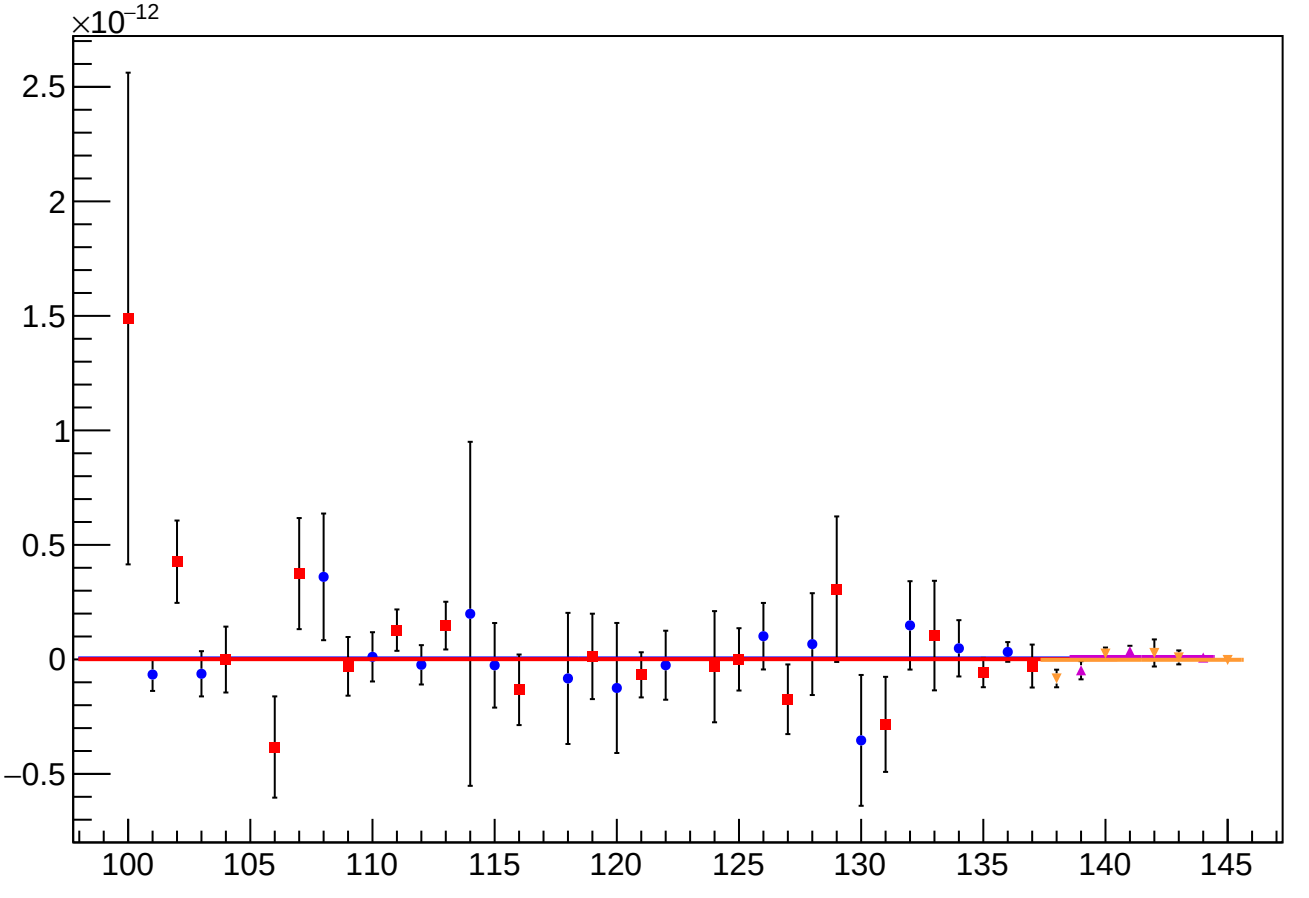
Left: 803.120+/-0.239 $\chi^2$/NDF: 1045812.6/7

Right: 1632.074+/-0.309 $\chi^2$/NDF: 1148558.3/34

In: 1139.885+/-0.283 $\chi^2$/NDF:3126619.6/18

Out: 1092.234+/-0.254 $\chi^2$/NDF:3559898.5/23

All: 1113.517+/-0.189 $\chi^2$/NDF: 6702235.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.3/2

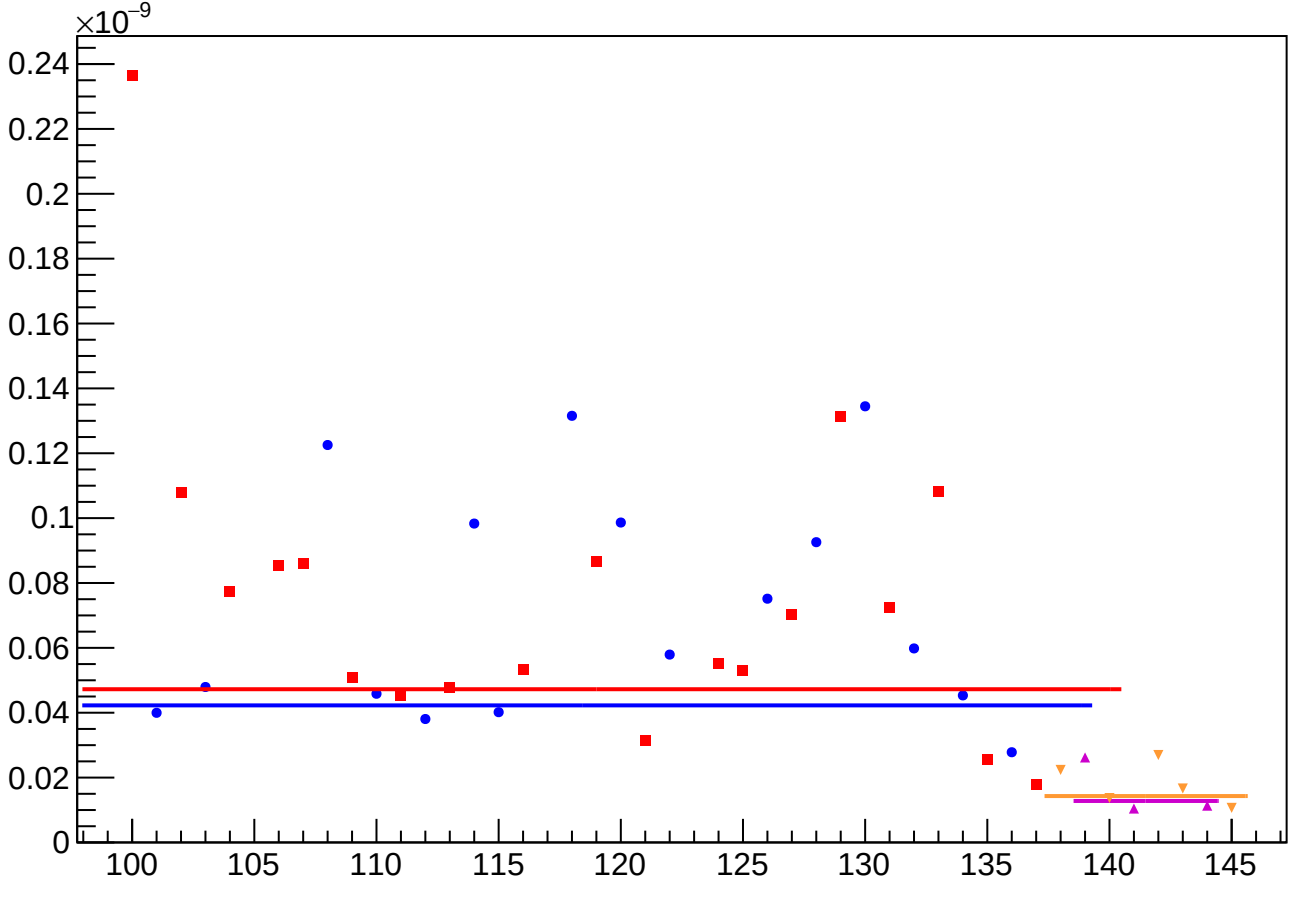
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:10.2/18

Out: -0.000+/-0.000 $\chi^2$/NDF:29.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 39.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1147920.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:270212.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1410595.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:261332.4/2

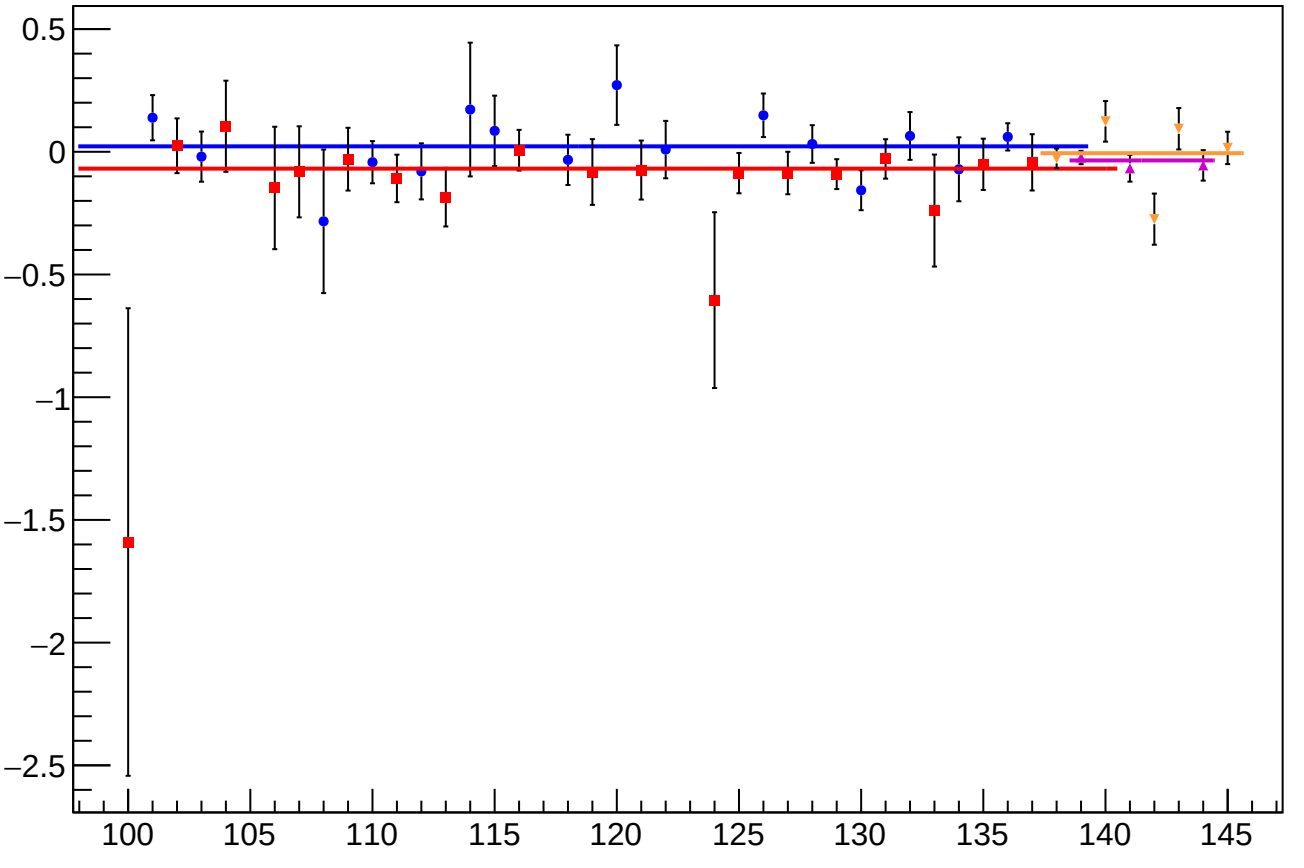
Left: 0.000+/-0.000 $\chi^2$/NDF: 545039.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 2588419.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:3286854.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3700507.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6988996.4/42




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: -0.006+/-0.028 $\chi^2$/NDF:10.9/4

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.035+/-0.023 $\chi^2$/NDF:0.6/2

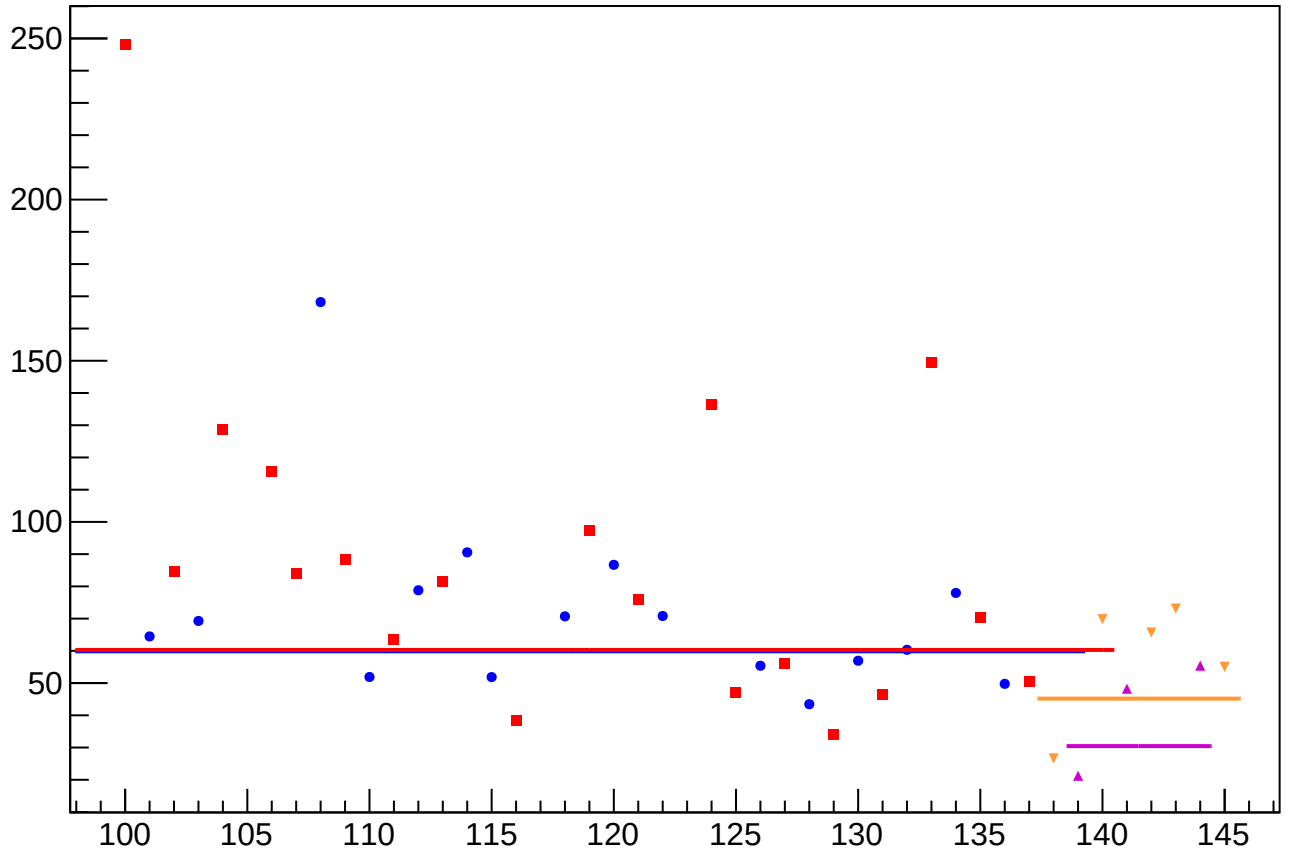
Left: -0.024+/-0.018 $\chi^2$/NDF: 12.2/7

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.009+/-0.017 $\chi^2$/NDF:19.1/18

Out: -0.041+/-0.019 $\chi^2$/NDF:23.2/23

All: -0.023+/-0.012 $\chi^2$/NDF: 43.9/42




Right In: 59.867+/-0.017 $\chi^2$/NDF: 698954.5/15

Left Out: 45.177+/-0.020 $\chi^2$/NDF:952695.5/4

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977220.6/18

Left In: 30.443+/-0.016 $\chi^2$/NDF:765852.6/2

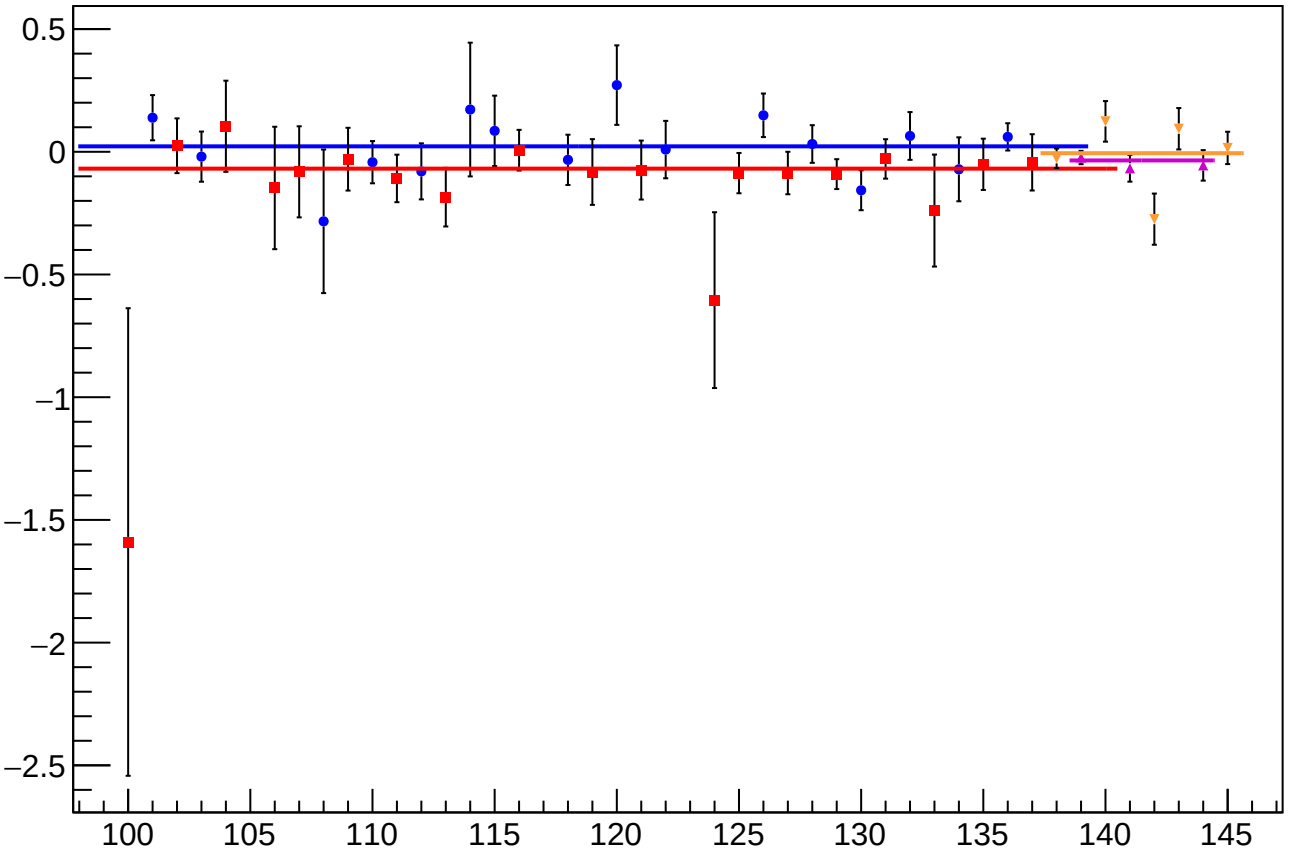
Left: 36.163+/-0.013 $\chi^2$/NDF: 2047805.1/7

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676445.3/34

In: 43.884+/-0.012 $\chi^2$/NDF:3009797.3/18

Out: 53.604+/-0.013 $\chi^2$/NDF:3245352.7/23

All: 48.143+/-0.009 $\chi^2$/NDF: 6552898.4/42




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: -0.006+/-0.028 $\chi^2$/NDF:10.9/4

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.035+/-0.023 $\chi^2$/NDF:0.6/2

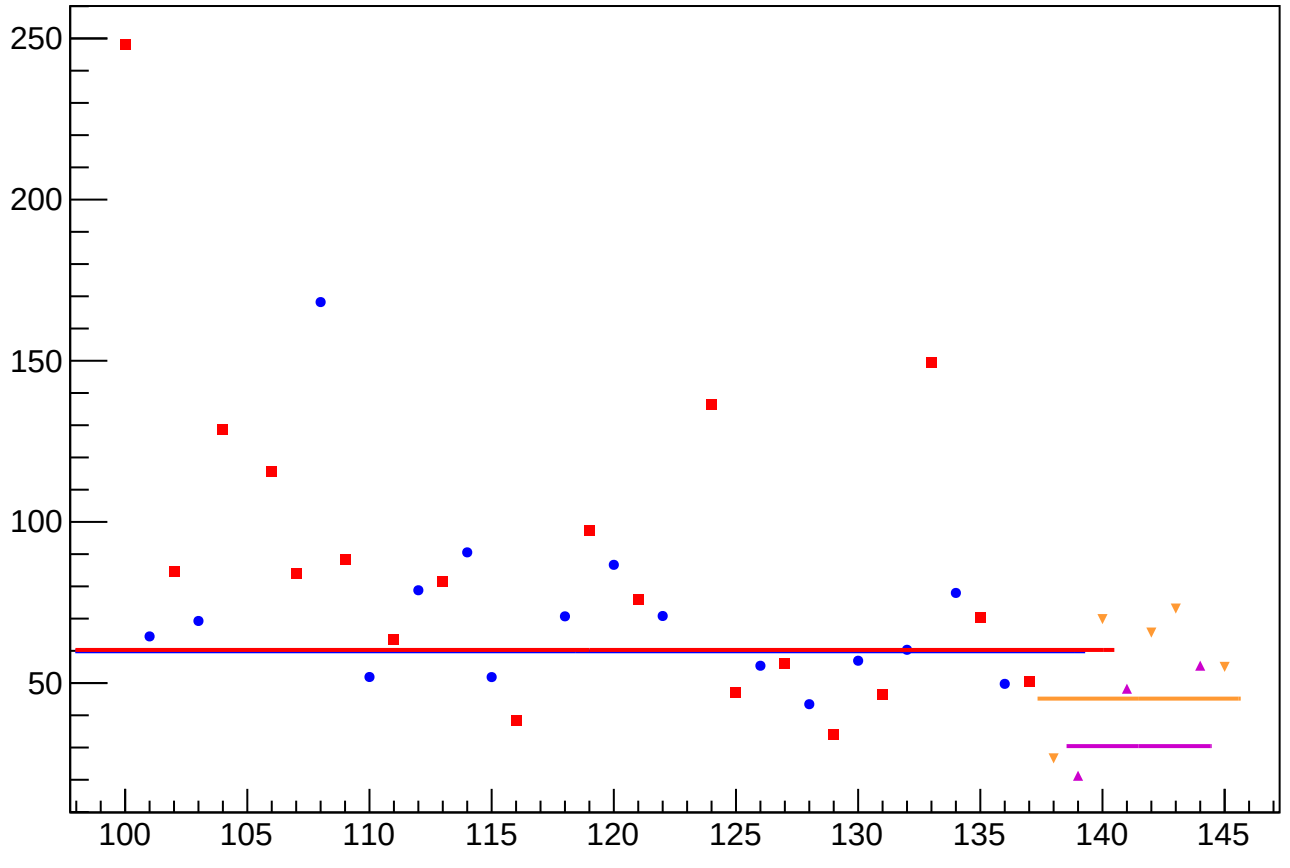
Left: -0.024+/-0.018 $\chi^2$/NDF: 12.2/7

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.009+/-0.017 $\chi^2$/NDF:19.1/18

Out: -0.041+/-0.019 $\chi^2$/NDF:23.2/23

All: -0.023+/-0.012 $\chi^2$/NDF: 43.9/42




Right In: 59.867+/-0.017 $\chi^2$/NDF: 698954.5/15

Left Out: 45.177+/-0.020 $\chi^2$/NDF:952695.5/4

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977220.6/18

Left In: 30.443+/-0.016 $\chi^2$/NDF:765852.6/2

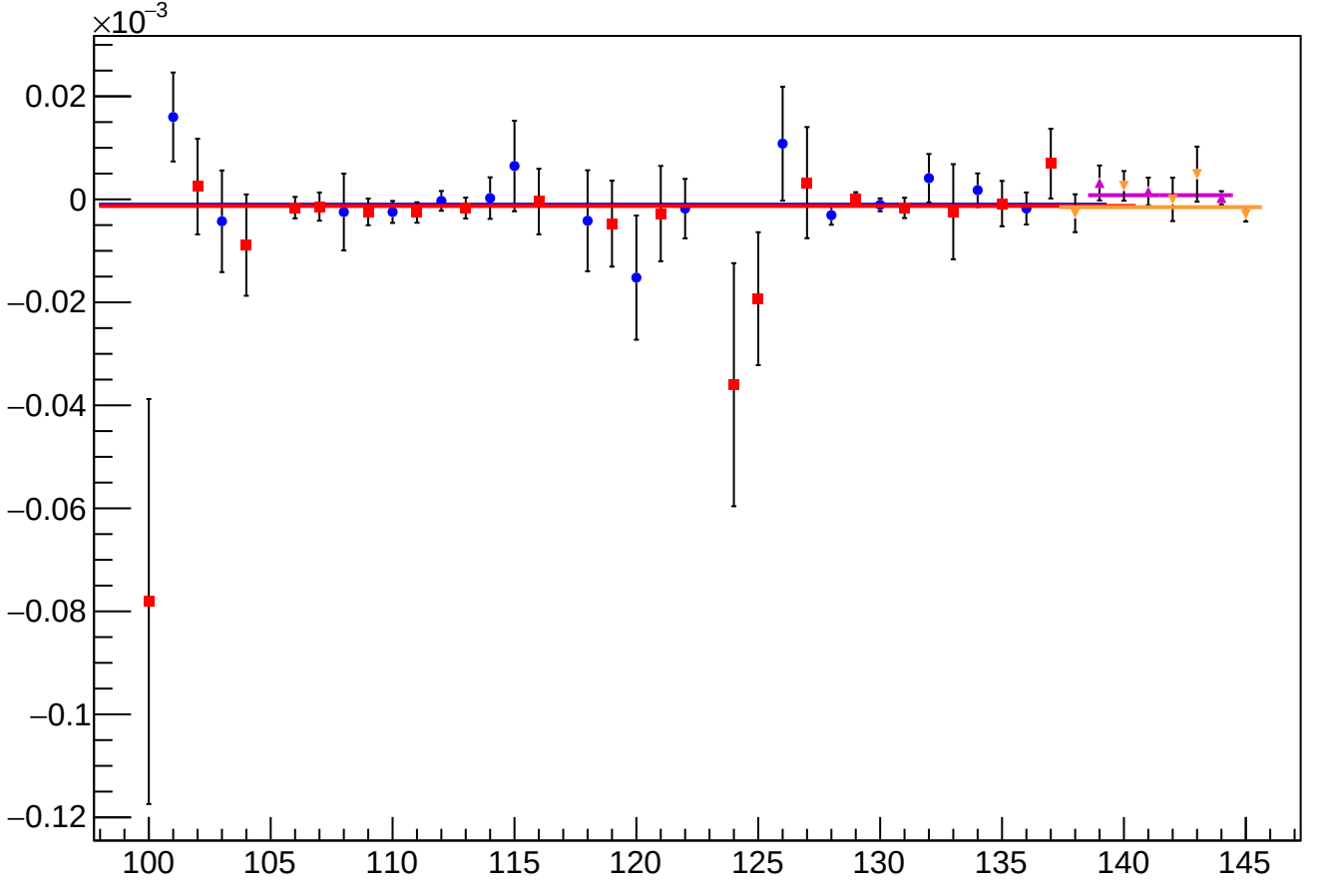
Left: 36.163+/-0.013 $\chi^2$/NDF: 2047805.1/7

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676445.3/34

In: 43.884+/-0.012 $\chi^2$/NDF:3009797.3/18

Out: 53.604+/-0.013 $\chi^2$/NDF:3245352.7/23

All: 48.143+/-0.009 $\chi^2$/NDF: 6552898.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.7/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.7/2

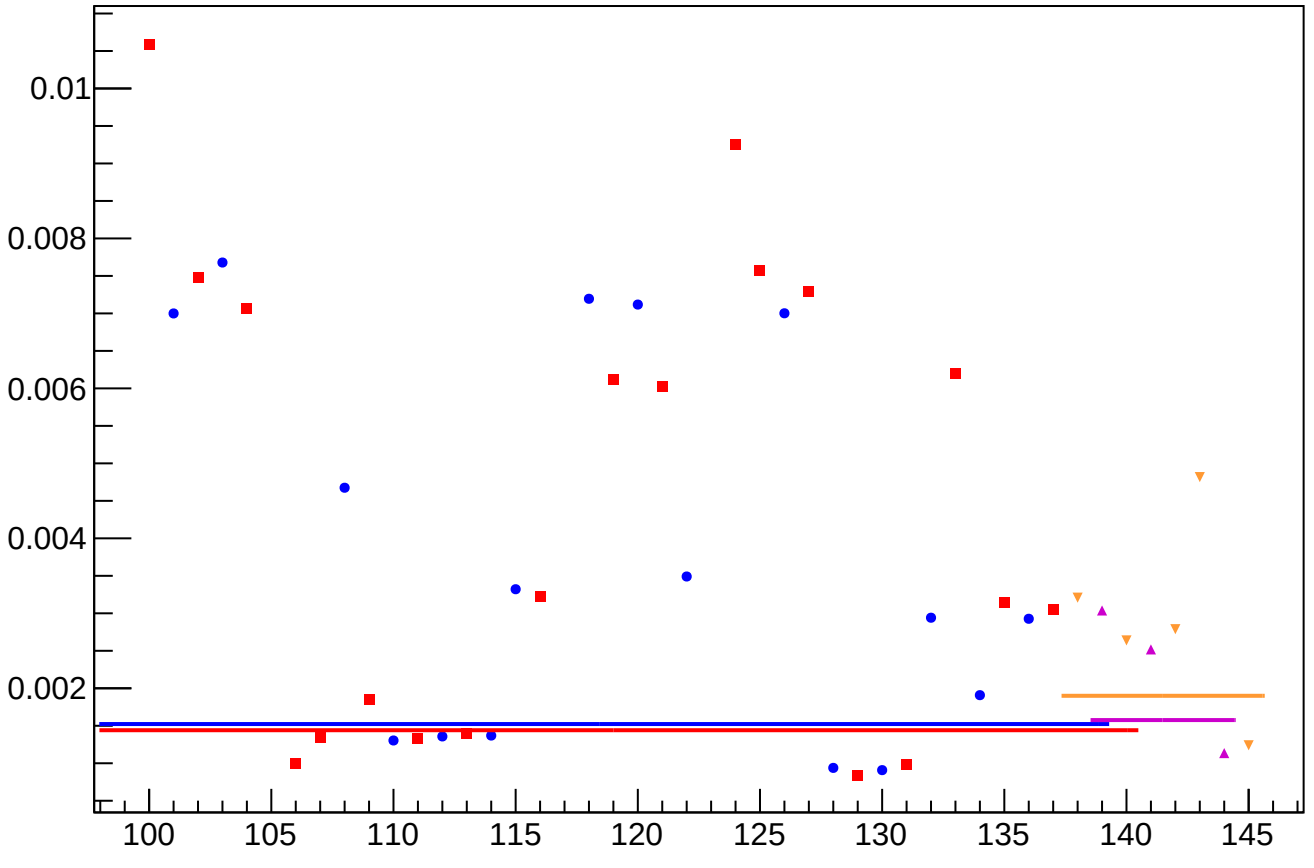
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.6/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 23.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:13.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:17.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 32.2/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5182869.7/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1514934.4/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5789411.1/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:845926.8/2

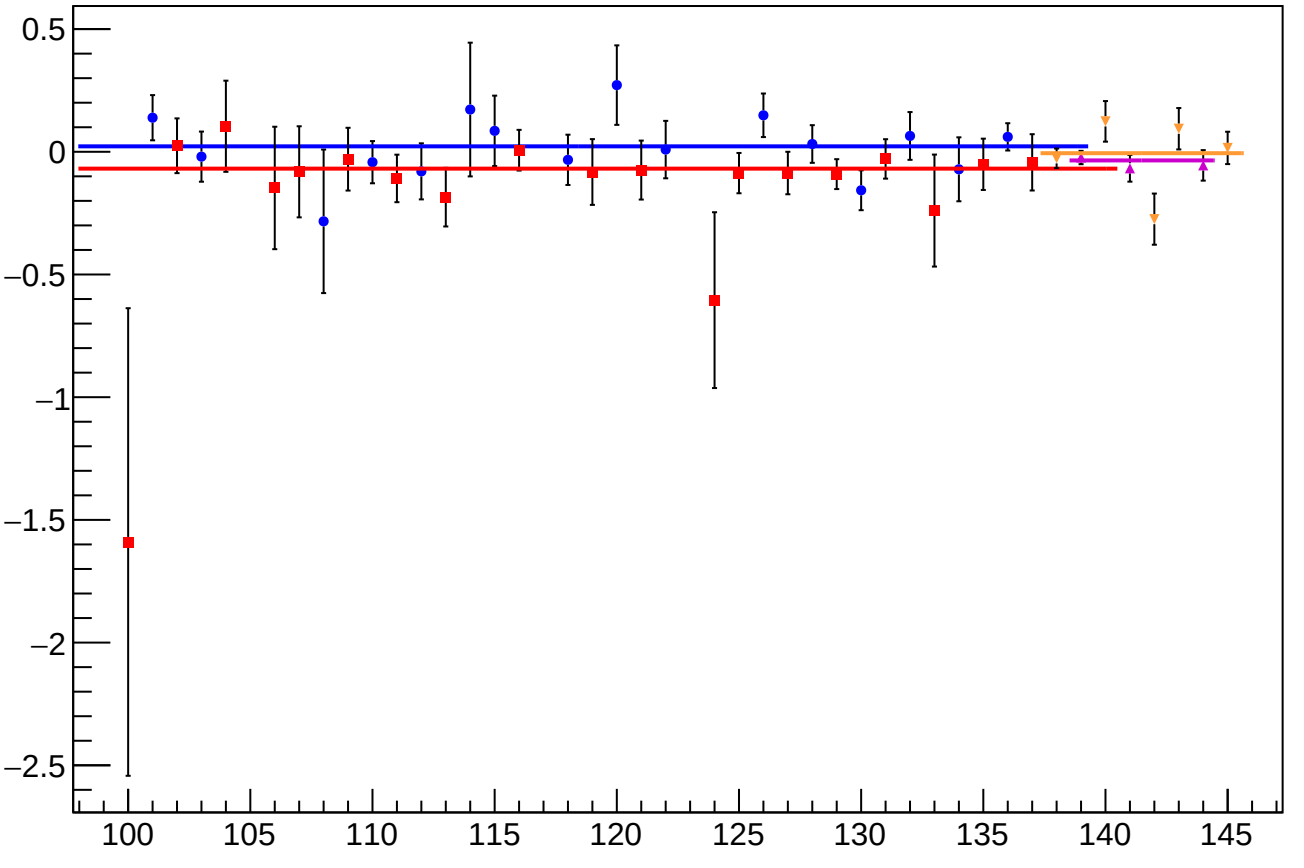
Left: 0.002+/-0.000 $\chi^2$/NDF: 2445269.3/7

Right: 0.001+/-0.000 $\chi^2$/NDF: 10985380.1/34

In: 0.002+/-0.000 $\chi^2$/NDF:6031960.3/18

Out: 0.002+/-0.000 $\chi^2$/NDF:7546371.4/23

All: 0.002+/-0.000 $\chi^2$/NDF: 13580827.9/42




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: -0.006+/-0.028 $\chi^2$/NDF:10.9/4

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.035+/-0.023 $\chi^2$/NDF:0.6/2

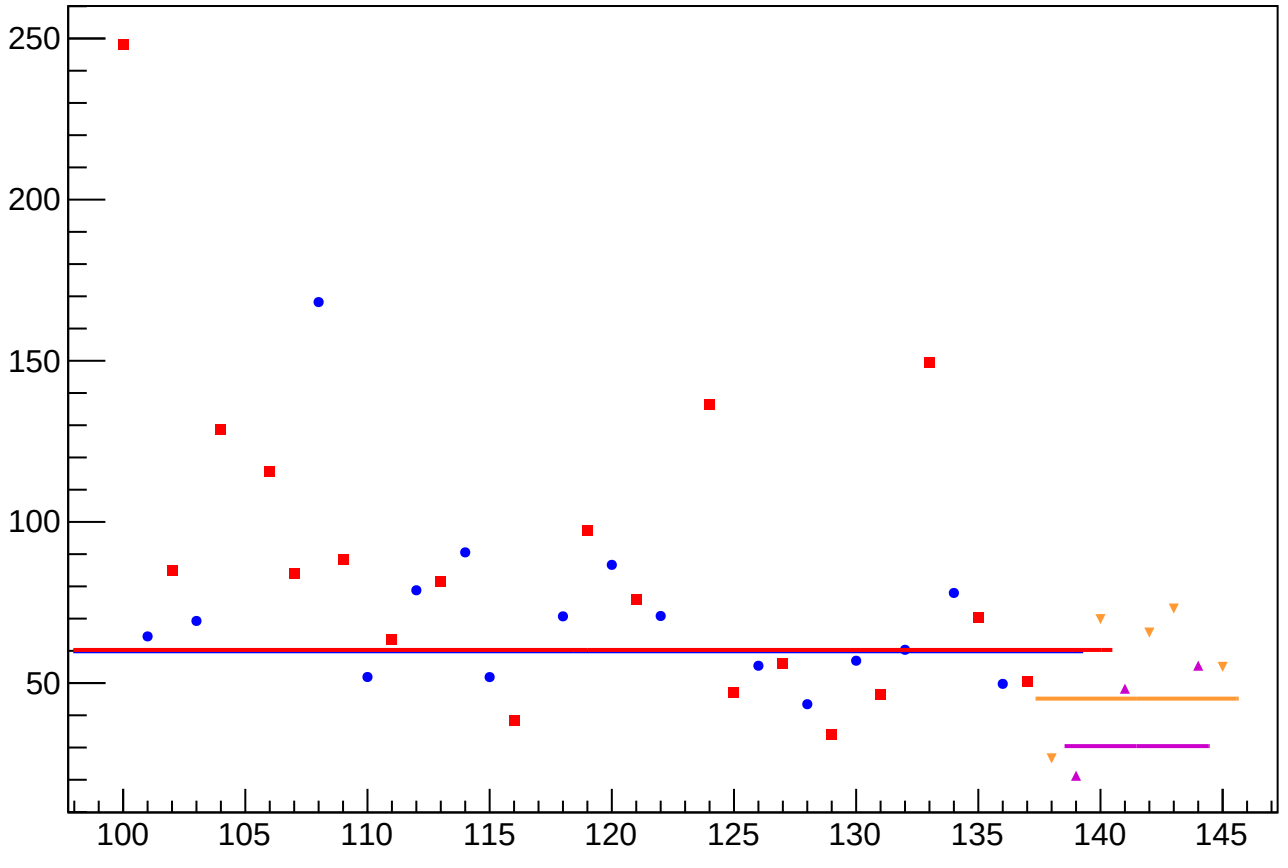
Left: -0.024+/-0.018 $\chi^2$/NDF: 12.2/7

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.009+/-0.017 $\chi^2$/NDF:19.1/18

Out: -0.041+/-0.019 $\chi^2$/NDF:23.2/23

All: -0.023+/-0.012 $\chi^2$/NDF: 43.9/42




Right In: 59.868+/-0.017 $\chi^2$/NDF: 699008.9/15

Left Out: 45.176+/-0.020 $\chi^2$/NDF:952886.8/4

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977294.2/18

Left In: 30.441+/-0.016 $\chi^2$/NDF:765951.7/2

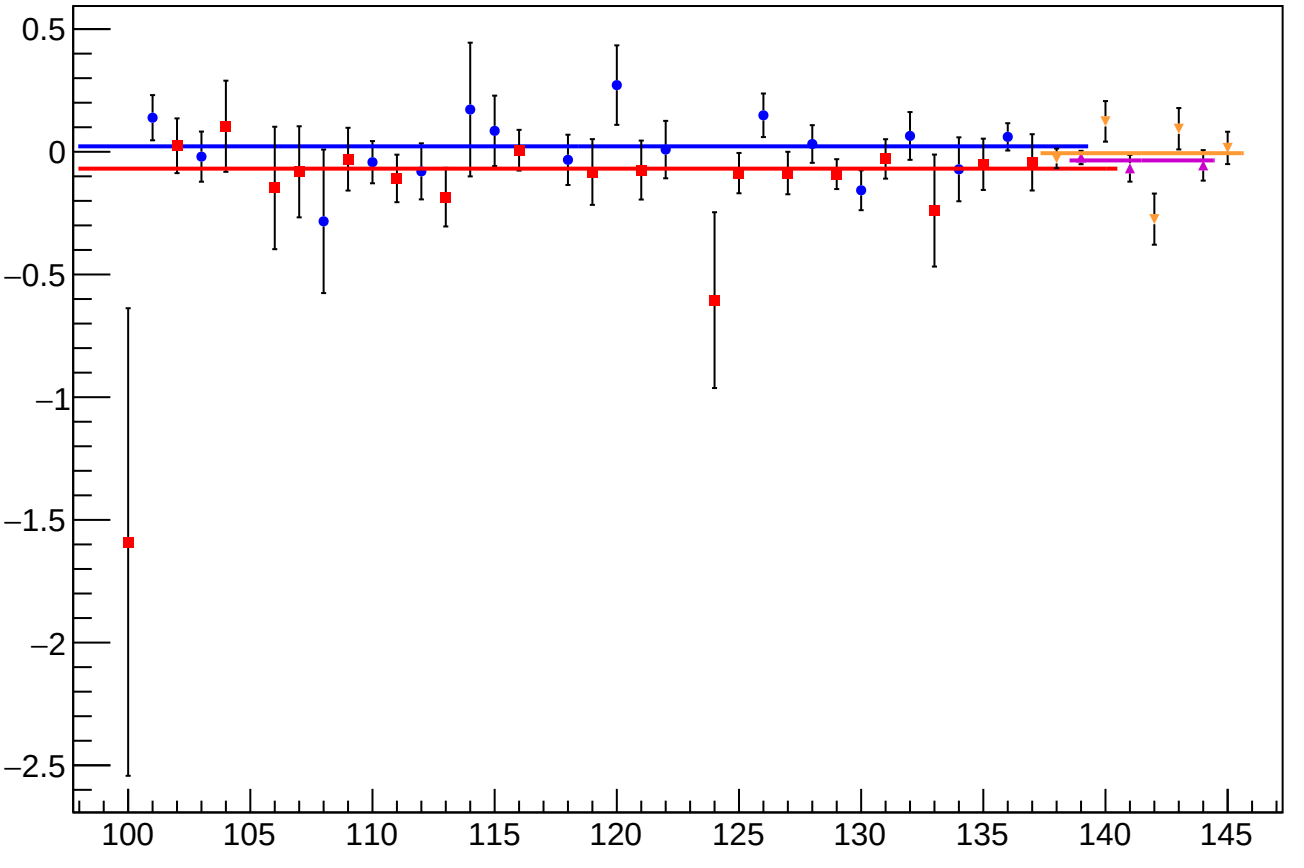
Left: 36.161+/-0.013 $\chi^2$/NDF: 2048090.3/7

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676572.8/34

In: 43.883+/-0.012 $\chi^2$/NDF:3010190.3/18

Out: 53.603+/-0.013 $\chi^2$/NDF:3245718.4/23

All: 48.142+/-0.009 $\chi^2$/NDF: 6553677.9/42




Right In: 0.022+/-0.025 $\chi^2$/NDF: 15.5/15

Left Out: -0.006+/-0.028 $\chi^2$/NDF:10.9/4

Right Out: -0.069+/-0.025 $\chi^2$/NDF: 9.6/18

Left In: -0.035+/-0.023 $\chi^2$/NDF:0.6/2

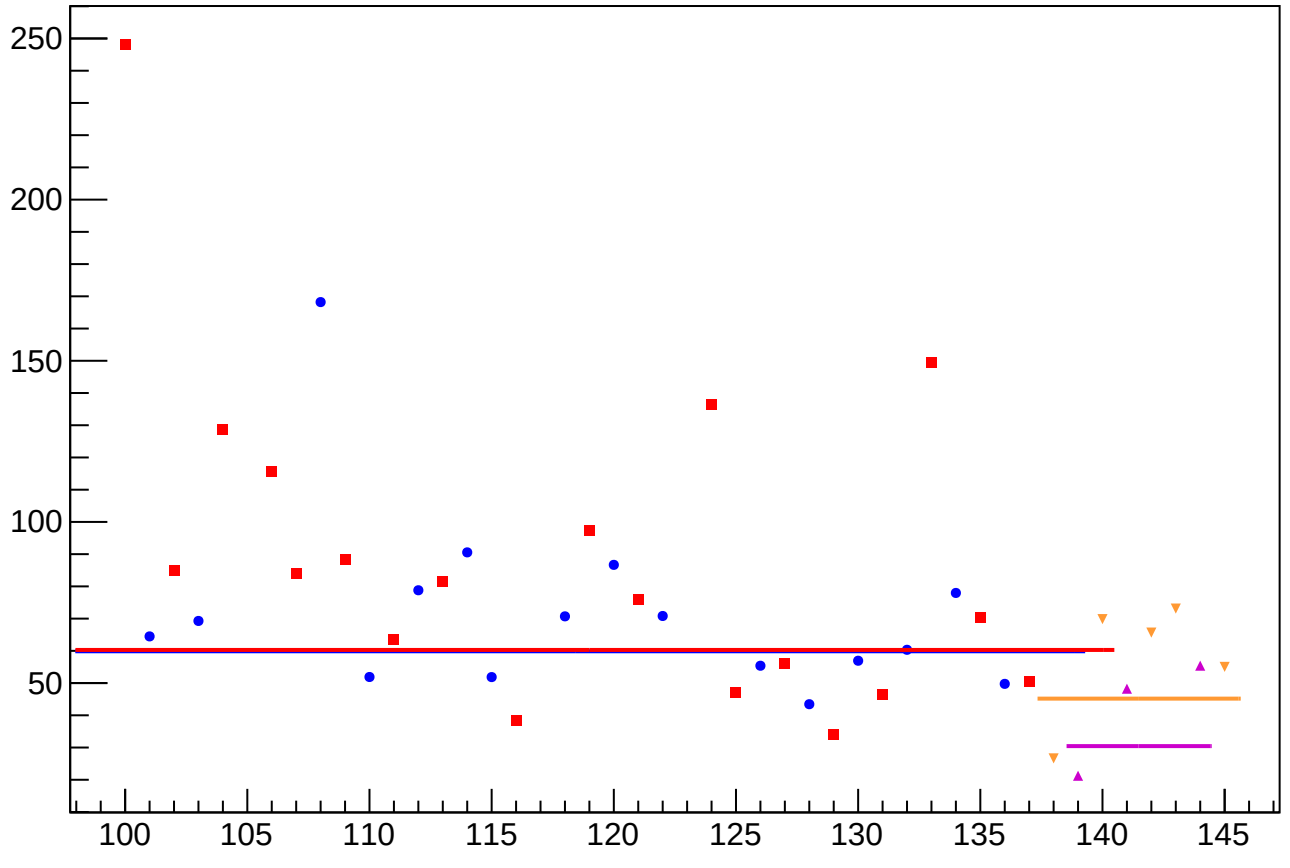
Left: -0.024+/-0.018 $\chi^2$/NDF: 12.2/7

Right: -0.022+/-0.018 $\chi^2$/NDF: 31.7/34

In: -0.009+/-0.017 $\chi^2$/NDF:19.1/18

Out: -0.041+/-0.019 $\chi^2$/NDF:23.2/23

All: -0.023+/-0.012 $\chi^2$/NDF: 43.9/42




Right In: 59.868+/-0.017 $\chi^2$/NDF: 699008.9/15

Left Out: 45.176+/-0.020 $\chi^2$/NDF:952886.8/4

Right Out: 60.278+/-0.018 $\chi^2$/NDF: 1977294.2/18

Left In: 30.441+/-0.016 $\chi^2$/NDF:765951.7/2

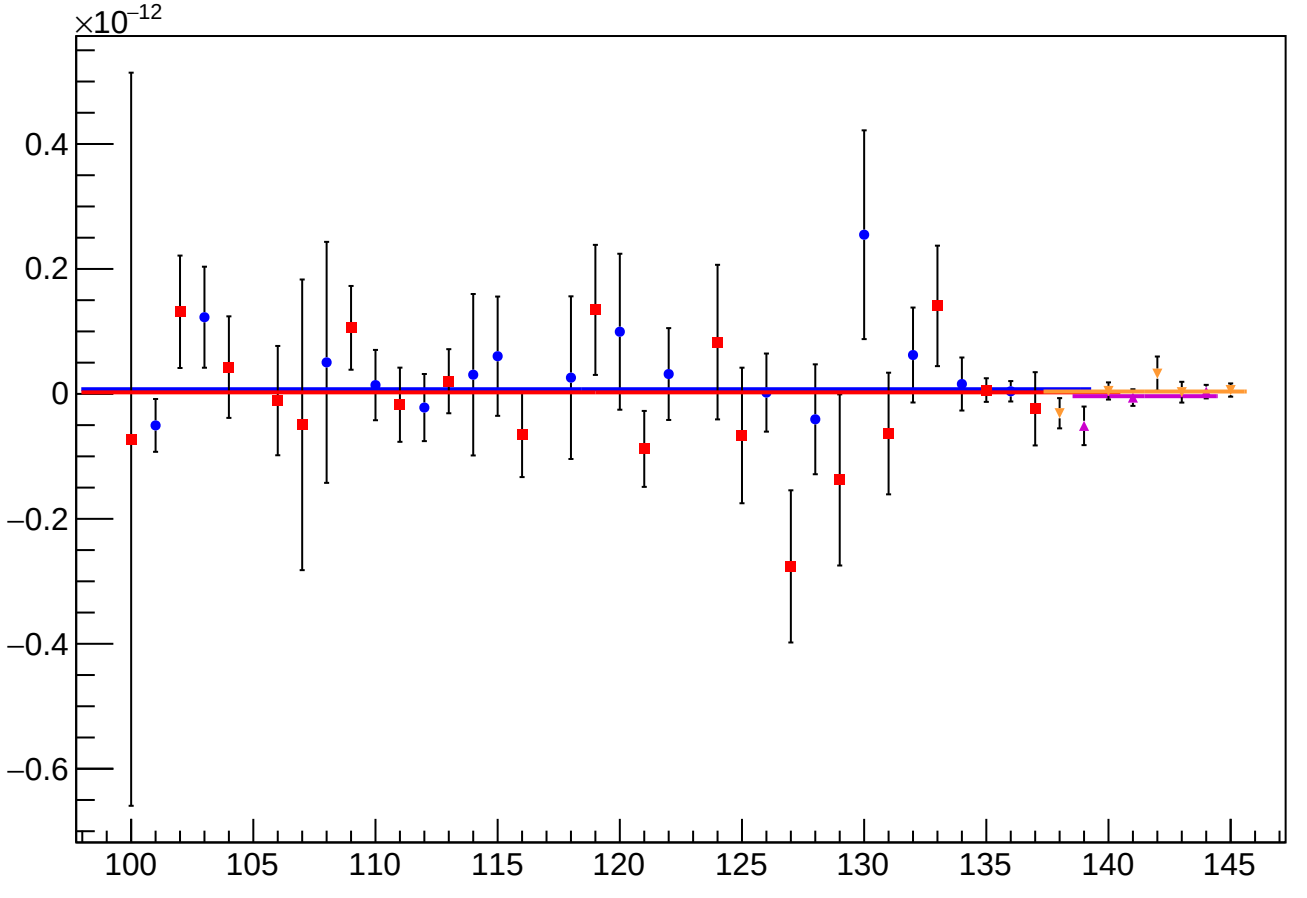
Left: 36.161+/-0.013 $\chi^2$/NDF: 2048090.3/7

Right: 60.068+/-0.012 $\chi^2$/NDF: 2676572.8/34

In: 43.883+/-0.012 $\chi^2$/NDF:3010190.3/18

Out: 53.603+/-0.013 $\chi^2$/NDF:3245718.4/23

All: 48.142+/-0.009 $\chi^2$/NDF: 6553677.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.7/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.8/2

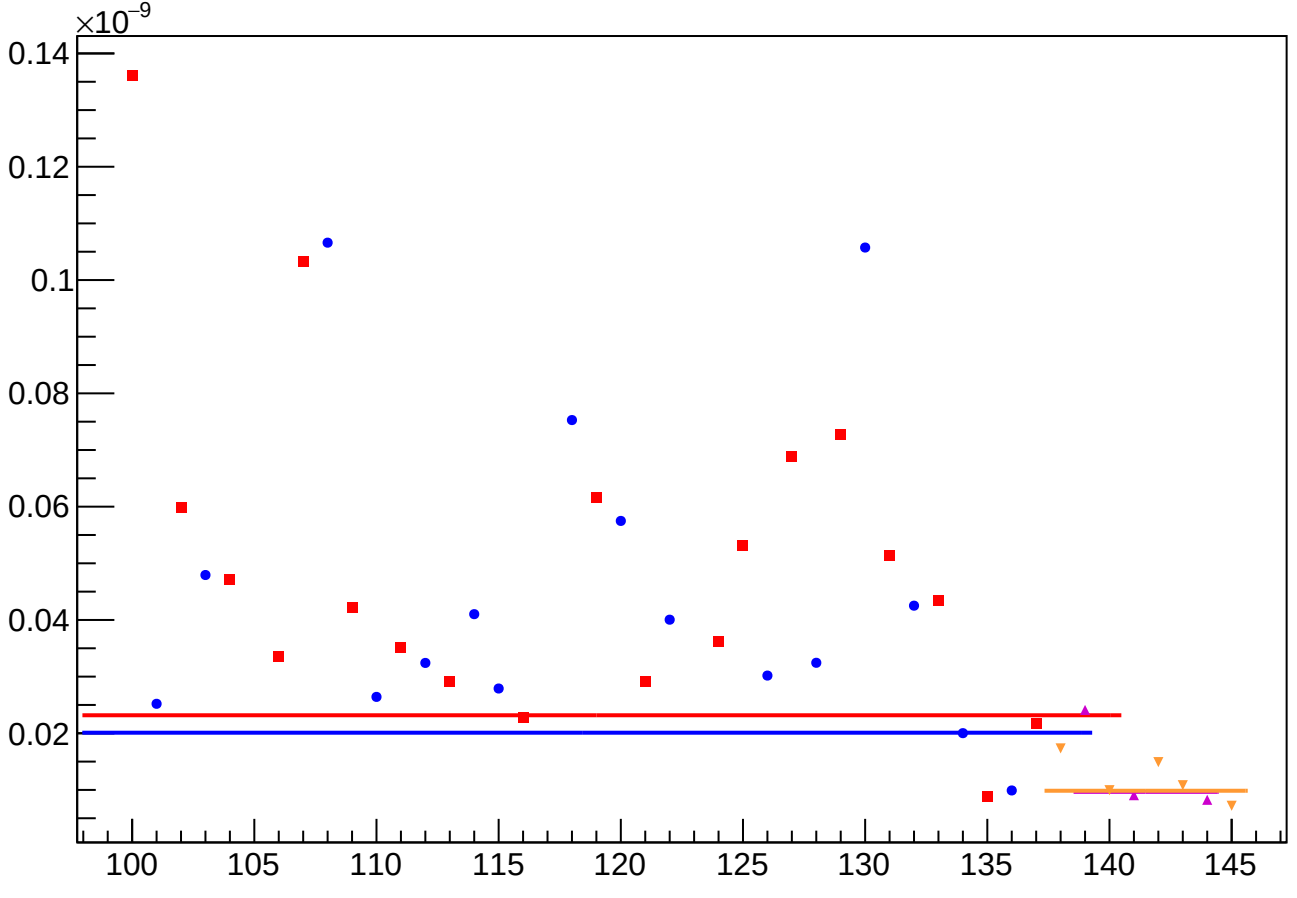
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 28.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:11.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 34.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3121422.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:390004.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3530677.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:476299.0/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 866999.9/7

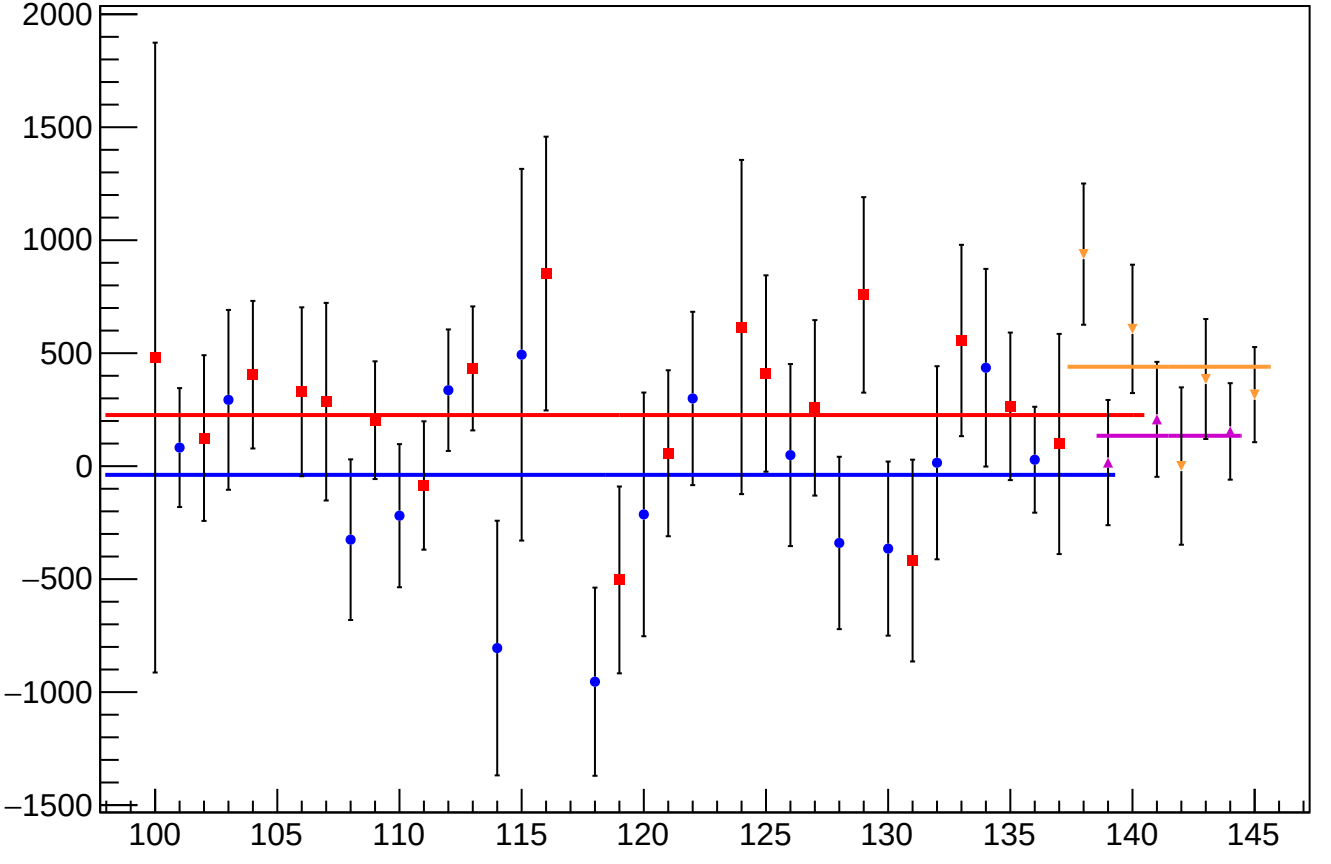
Right: 0.000+/-0.000 $\chi^2$/NDF: 6709527.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:4620701.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5458410.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 10080605.7/42

# reg_asym_sam4_mean vs Slug, Sign Corrected




Right In: -38.498+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 439.986+/-121.592 $\chi^2$/NDF:4.9/4

Right Out: 226.168+/-87.908 $\chi^2$/NDF: 11.4/18

Left In: 134.496+/-140.841 $\chi^2$/NDF:0.3/2

Left: 309.528+/-92.038 $\chi^2$/NDF: 7.8/7

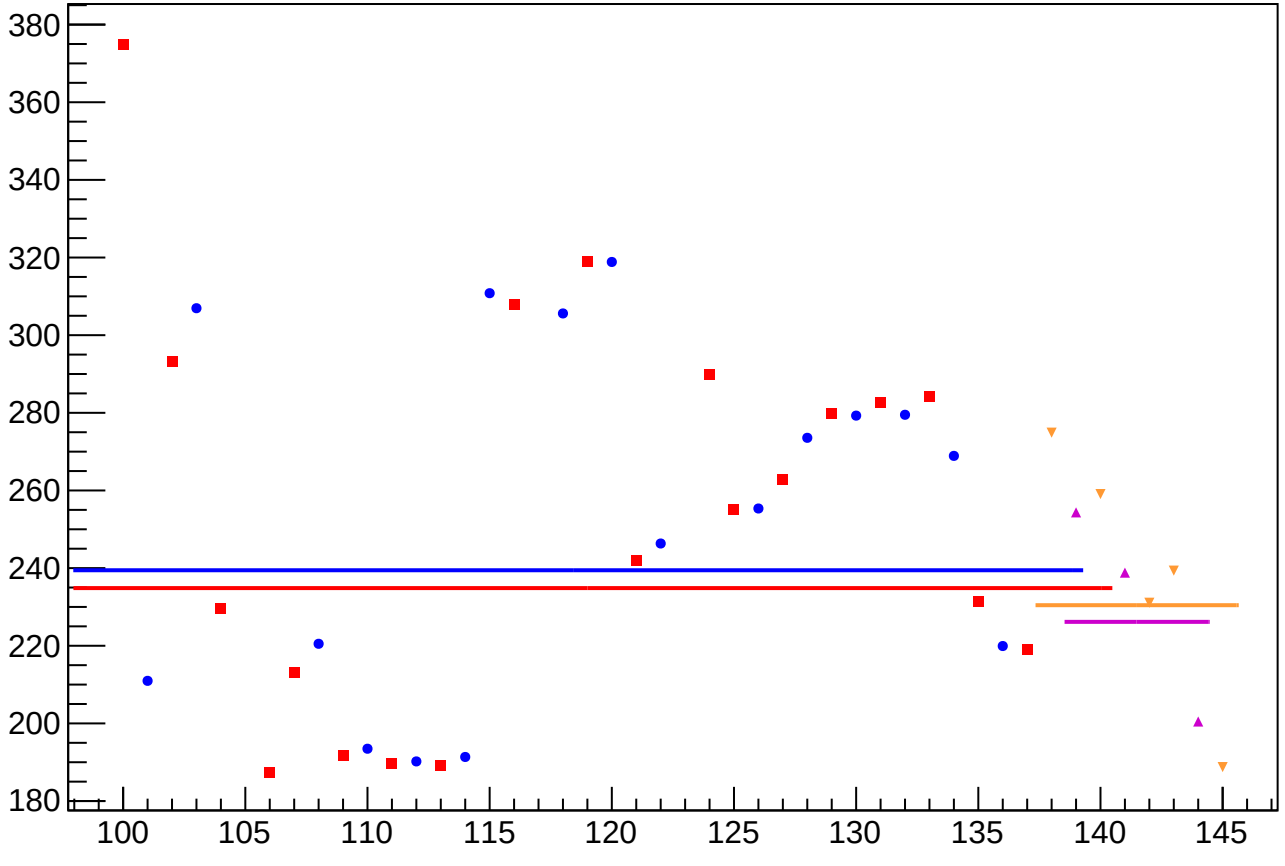
Right: 97.852+/-63.097 $\chi^2$/NDF: 30.3/34

In: 12.150+/-76.207 $\chi^2$/NDF:15.8/18

Out: 299.565+/-71.240 $\chi^2$/NDF:18.3/23

All: 165.530+/-52.042 $\chi^2$/NDF: 41.7/42

# reg_asym_sam4_rms vs Slug, Sign Corrected




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400955.7/15

Left Out: 230.449+/-0.086 $\chi^2$/NDF:141512.4/4

Right Out: 234.855+/-0.062 $\chi^2$/NDF: 481715.3/18

Left In: 226.157+/-0.100 $\chi^2$/NDF:54584.7/2

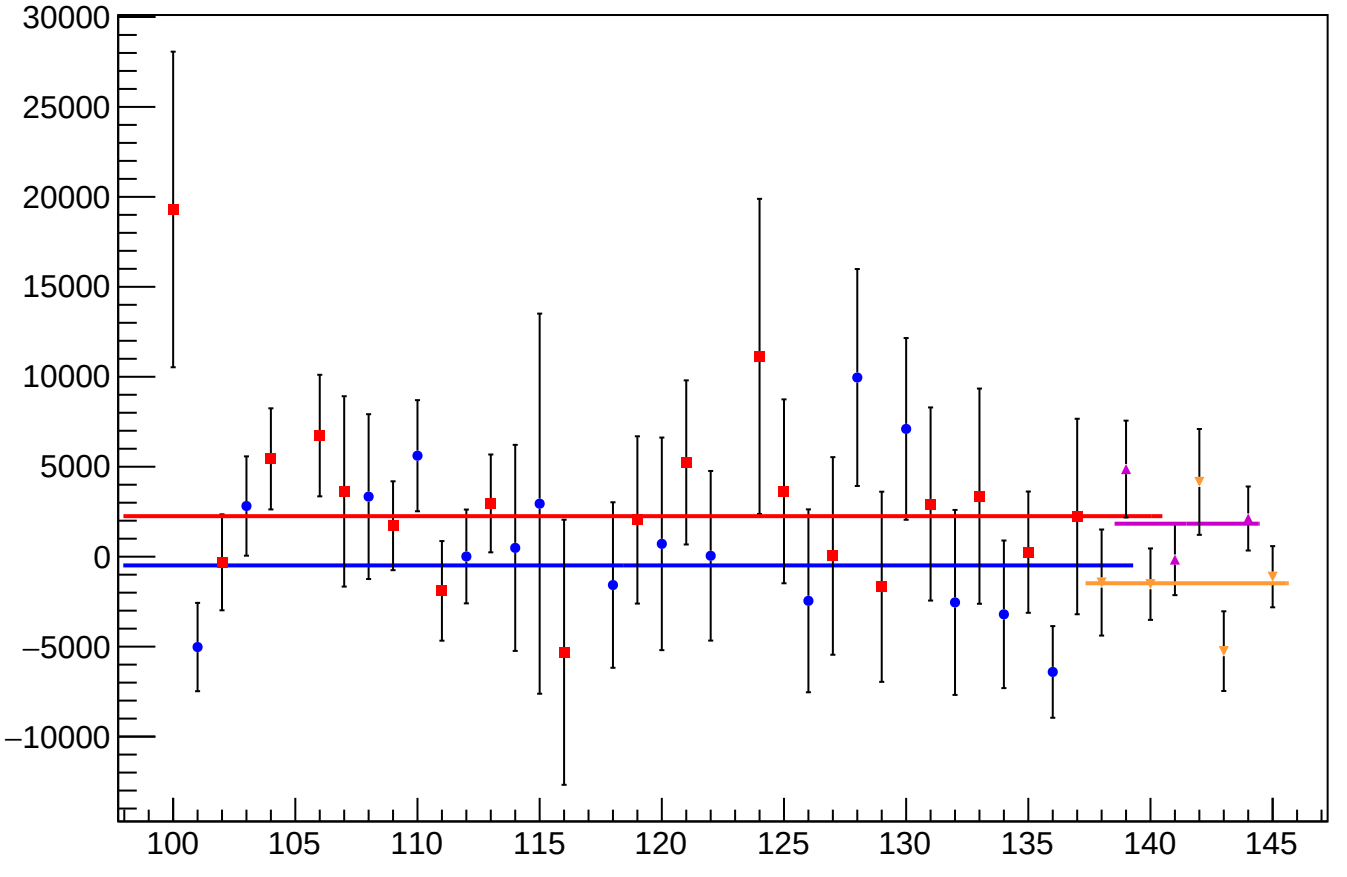
Left: 228.616+/-0.065 $\chi^2$/NDF: 197161.0/7

Right: 237.082+/-0.045 $\chi^2$/NDF: 885319.7/34

In: 235.558+/-0.054 $\chi^2$/NDF:468138.1/18

Out: 233.342+/-0.050 $\chi^2$/NDF:624952.2/23

All: 234.375+/-0.037 $\chi^2$/NDF: 1093992.3/42




Right In: -485.932+/-947.459 $\chi^2$/NDF: 21.1/15

Left Out: -1477.783+/-983.247 $\chi^2$/NDF:6.6/4

Right Out: 2251.898+/-894.171 $\chi^2$/NDF: 13.9/18

Left In: 1833.869+/-1186.985 $\chi^2$/NDF:2.3/2

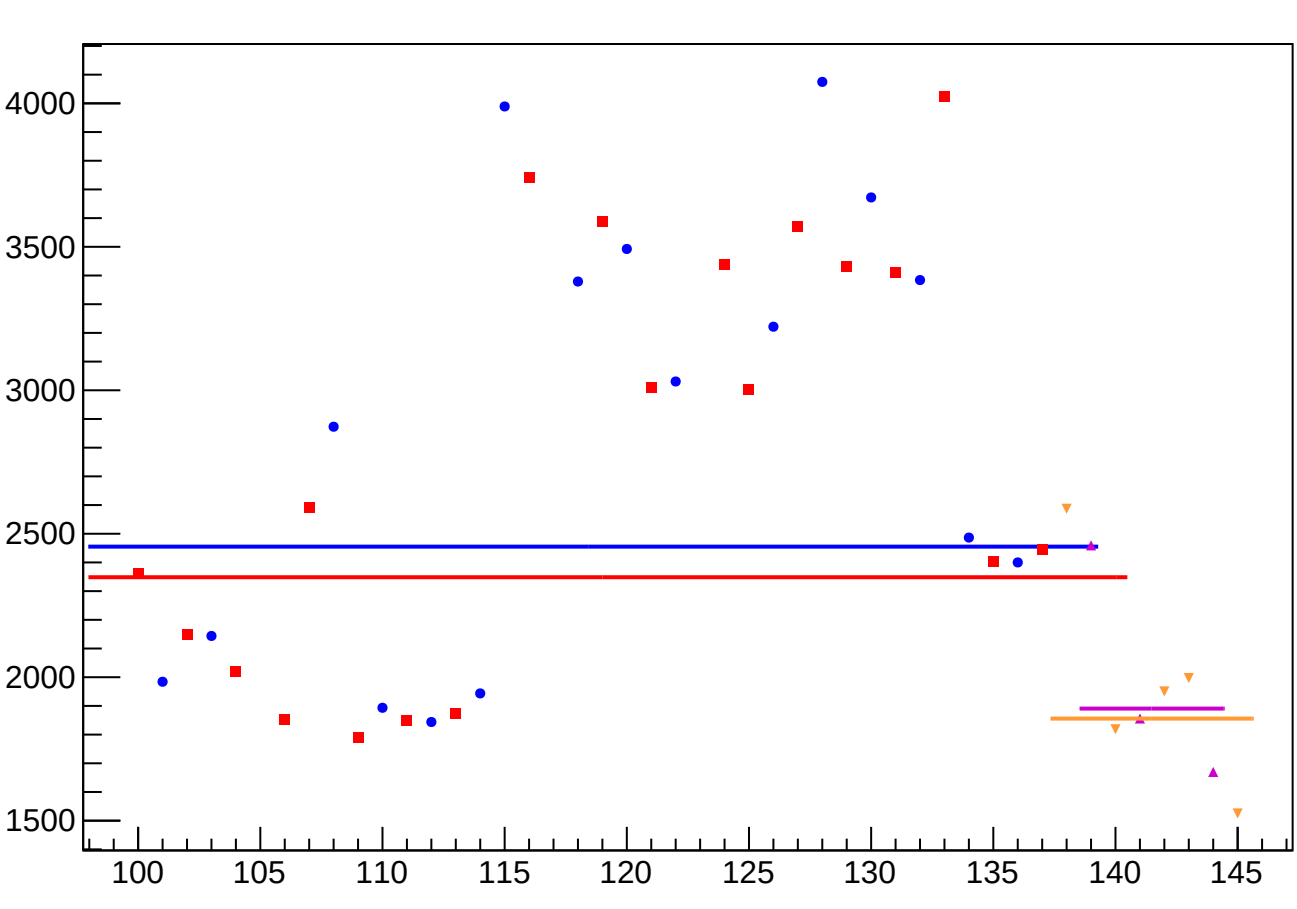
Left: -130.135+/-757.201 $\chi^2$/NDF: 13.5/7

Right: 962.136+/-650.297 $\chi^2$/NDF: 39.4/34

In: 416.879+/-740.489 $\chi^2$/NDF:25.8/18

Out: 563.617+/-661.529 $\chi^2$/NDF:28.4/23

All: 498.486+/-493.334 $\chi^2$/NDF: 54.2/42




Right In: 2455.103+/-0.670 $\chi^2$/NDF: 894389.6/15

Left Out: 1855.808+/-0.695 $\chi^2$/NDF:209649.5/4

Right Out: 2348.446+/-0.632 $\chi^2$/NDF: 1052421.6/18

Left In: 1890.699+/-0.839 $\chi^2$/NDF:120771.7/2

Left: 1870.006+/-0.535 $\chi^2$/NDF: 331446.2/7

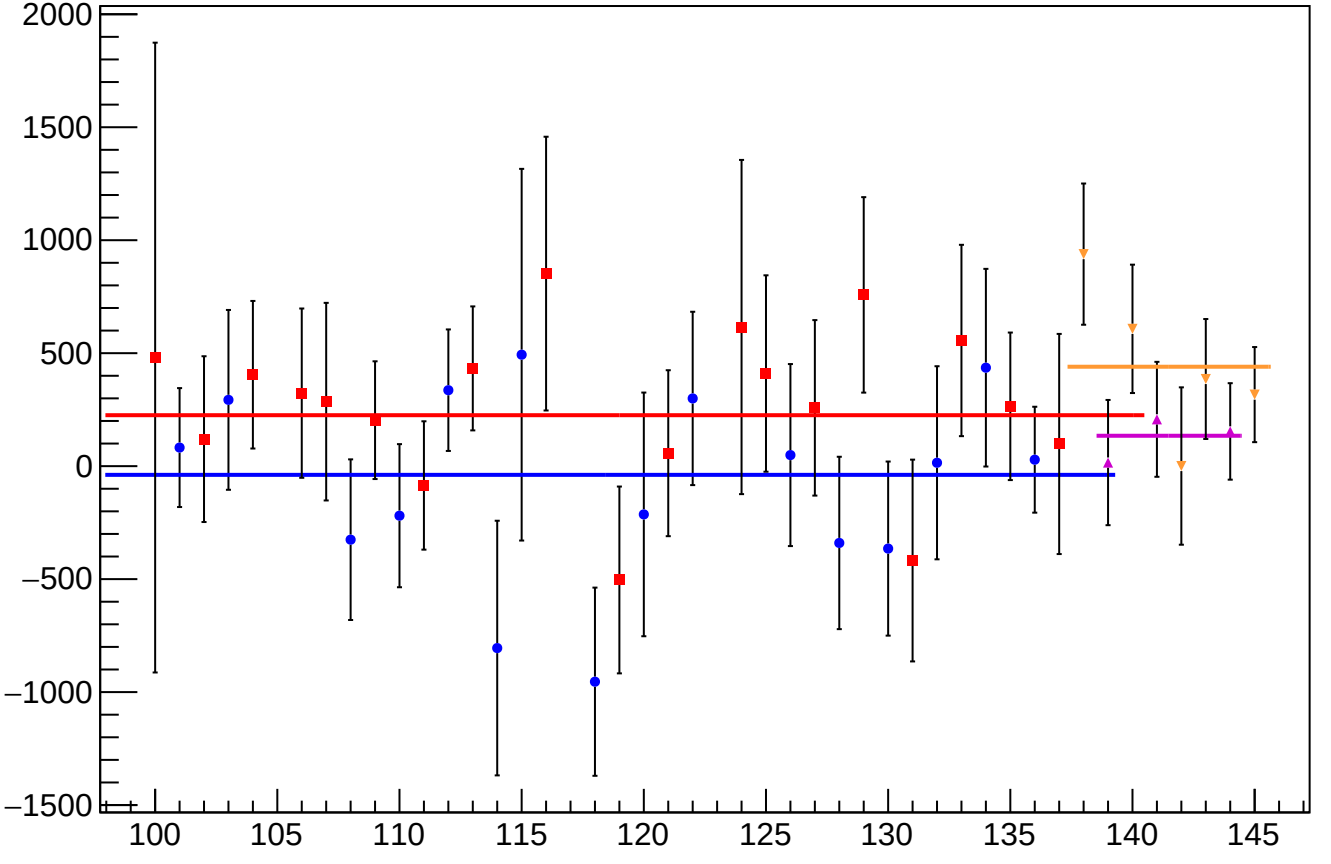
Right: 2398.691+/-0.460 $\chi^2$/NDF: 1960216.3/34

In: 2235.450+/-0.524 $\chi^2$/NDF:1291368.8/18

Out: 2125.448+/-0.468 $\chi^2$/NDF:1536872.1/23

All: 2174.274+/-0.349 $\chi^2$/NDF: 2852786.9/42

# cor_asym_sam4_mean vs Slug, Sign Corrected




Right In: -38.519+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 440.022+/-121.592 $\chi^2$/NDF:4.9/4

Right Out: 225.515+/-87.922 $\chi^2$/NDF: 11.4/18

Left In: 134.513+/-140.841 $\chi^2$/NDF:0.3/2

Left: 309.556+/-92.038 $\chi^2$/NDF: 7.8/7

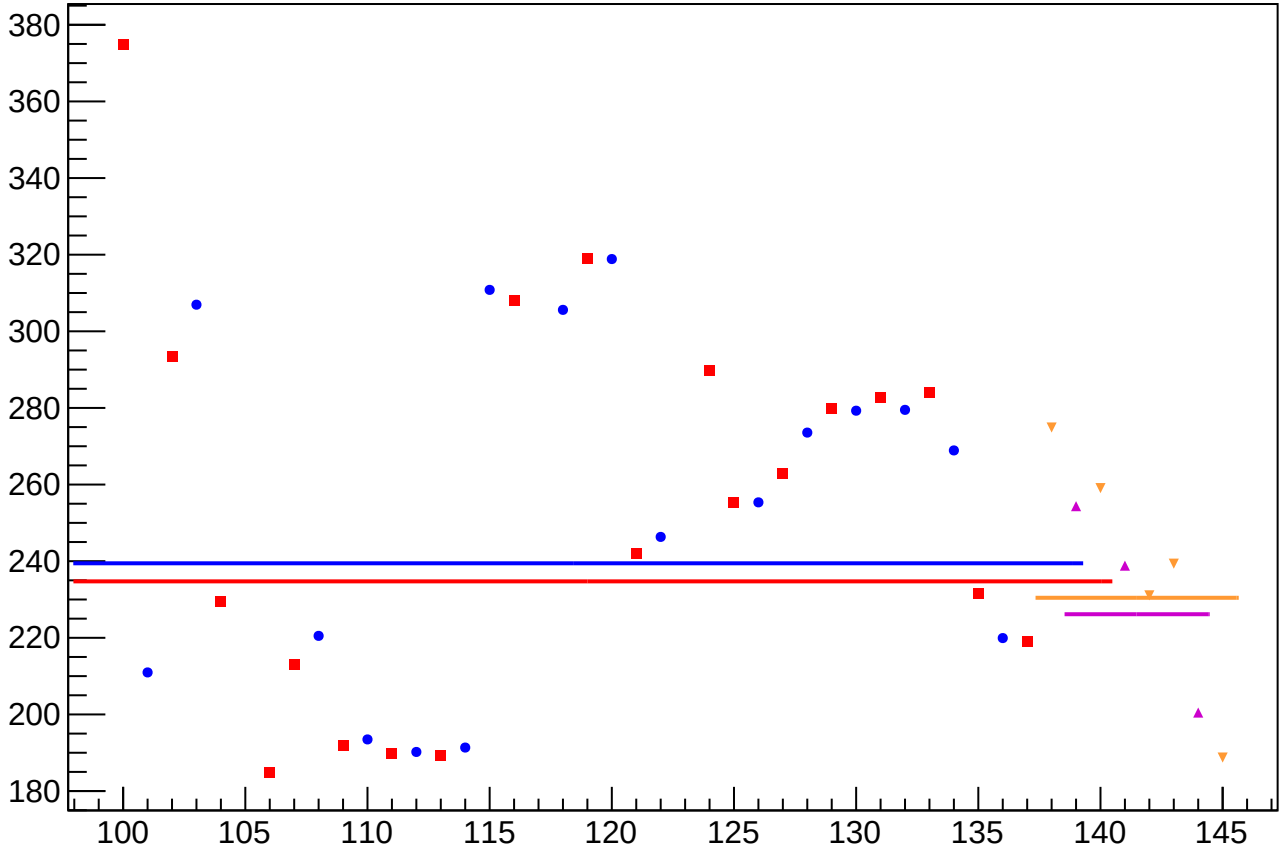
Right: 97.485+/-63.102 $\chi^2$/NDF: 30.3/34

In: 12.140+/-76.207 $\chi^2$/NDF:15.8/18

Out: 299.163+/-71.247 $\chi^2$/NDF:18.3/23

All: 165.296+/-52.044 $\chi^2$/NDF: 41.7/42

# cor_asym_sam4_rms vs Slug, Sign Corrected




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400958.1/15

Left Out: 230.449+/-0.086 $\chi^2$/NDF:141512.4/4

Right Out: 234.733+/-0.062 $\chi^2$/NDF: 485238.4/18

Left In: 226.157+/-0.100 $\chi^2$/NDF:54584.7/2

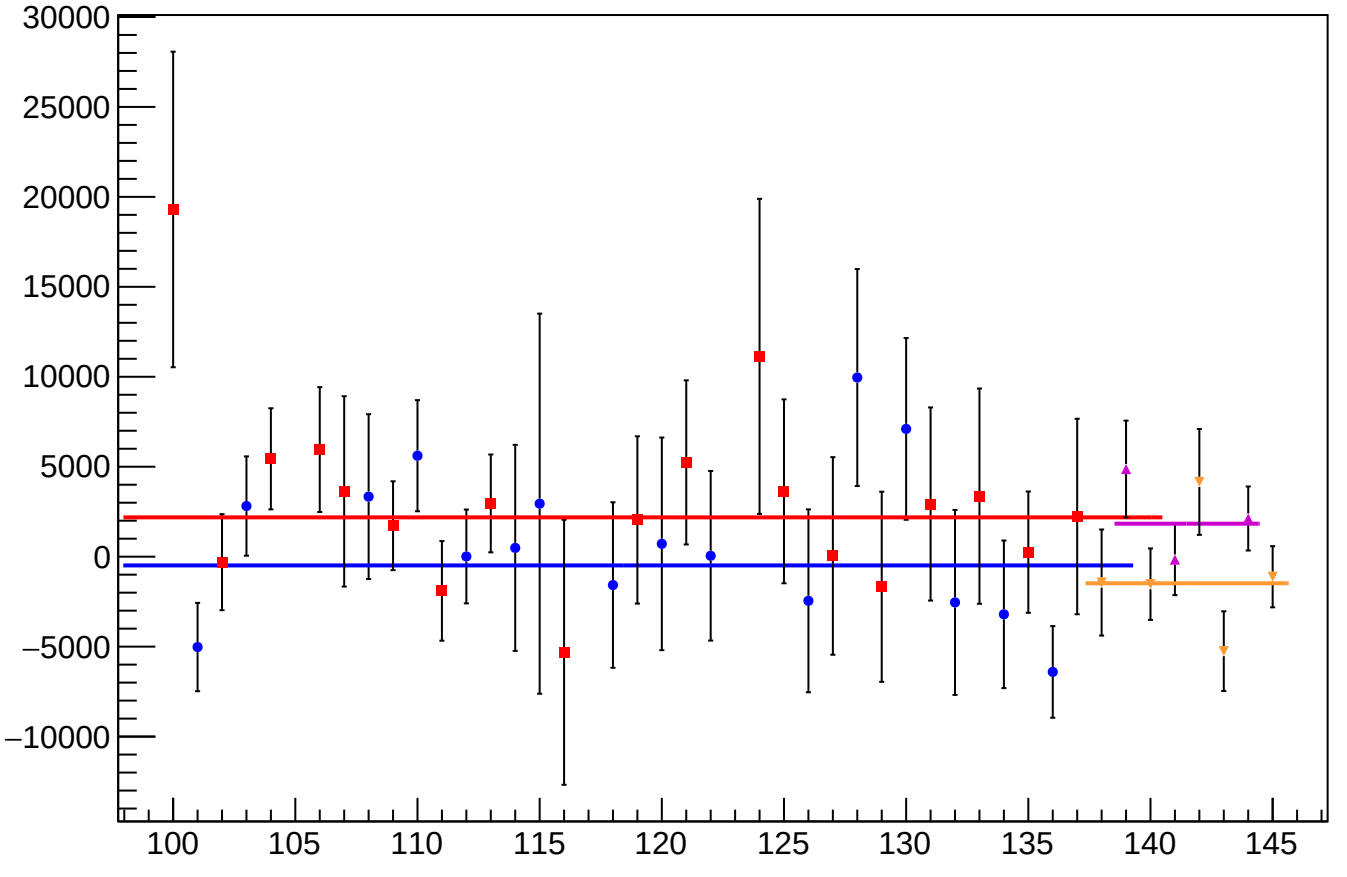
Left: 228.616+/-0.065 $\chi^2$/NDF: 197161.0/7

Right: 237.020+/-0.045 $\chi^2$/NDF: 888987.0/34

In: 235.558+/-0.054 $\chi^2$/NDF:468140.5/18

Out: 233.262+/-0.050 $\chi^2$/NDF:628381.1/23

All: 234.333+/-0.037 $\chi^2$/NDF: 1097490.1/42




Right In: -486.103+/-947.467 $\chi^2$/NDF: 21.1/15

Left Out: -1477.748+/-983.246 $\chi^2$/NDF:6.6/4

Right Out: 2184.834+/-895.863 $\chi^2$/NDF: 13.3/18

Left In: 1833.902+/-1186.986 $\chi^2$/NDF:2.3/2

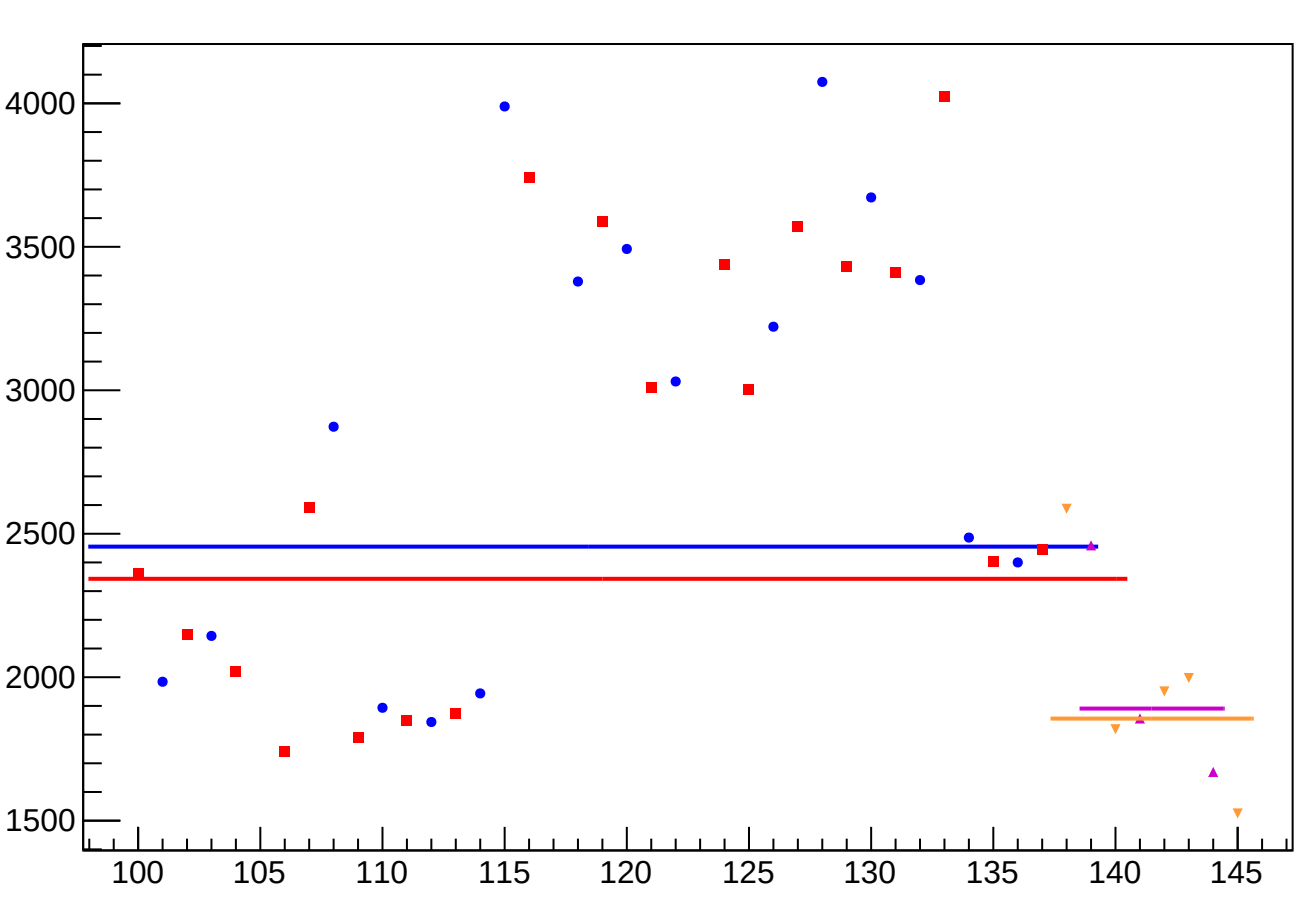
Left: -130.102+/-757.201 $\chi^2$/NDF: 13.5/7

Right: 924.081+/-650.950 $\chi^2$/NDF: 38.6/34

In: 416.797+/-740.493 $\chi^2$/NDF:25.8/18

Out: 523.495+/-662.213 $\chi^2$/NDF:27.4/23

All: 476.082+/-493.619 $\chi^2$/NDF: 53.2/42




Right In: 2455.127+/-0.670 $\chi^2$/NDF: 894358.3/15

Left Out: 1855.806+/-0.695 $\chi^2$/NDF:209650.5/4

Right Out: 2342.955+/-0.633 $\chi^2$/NDF: 1070387.8/18

Left In: 1890.700+/-0.839 $\chi^2$/NDF:120770.6/2

Left: 1870.006+/-0.535 $\chi^2$/NDF: 331446.1/7

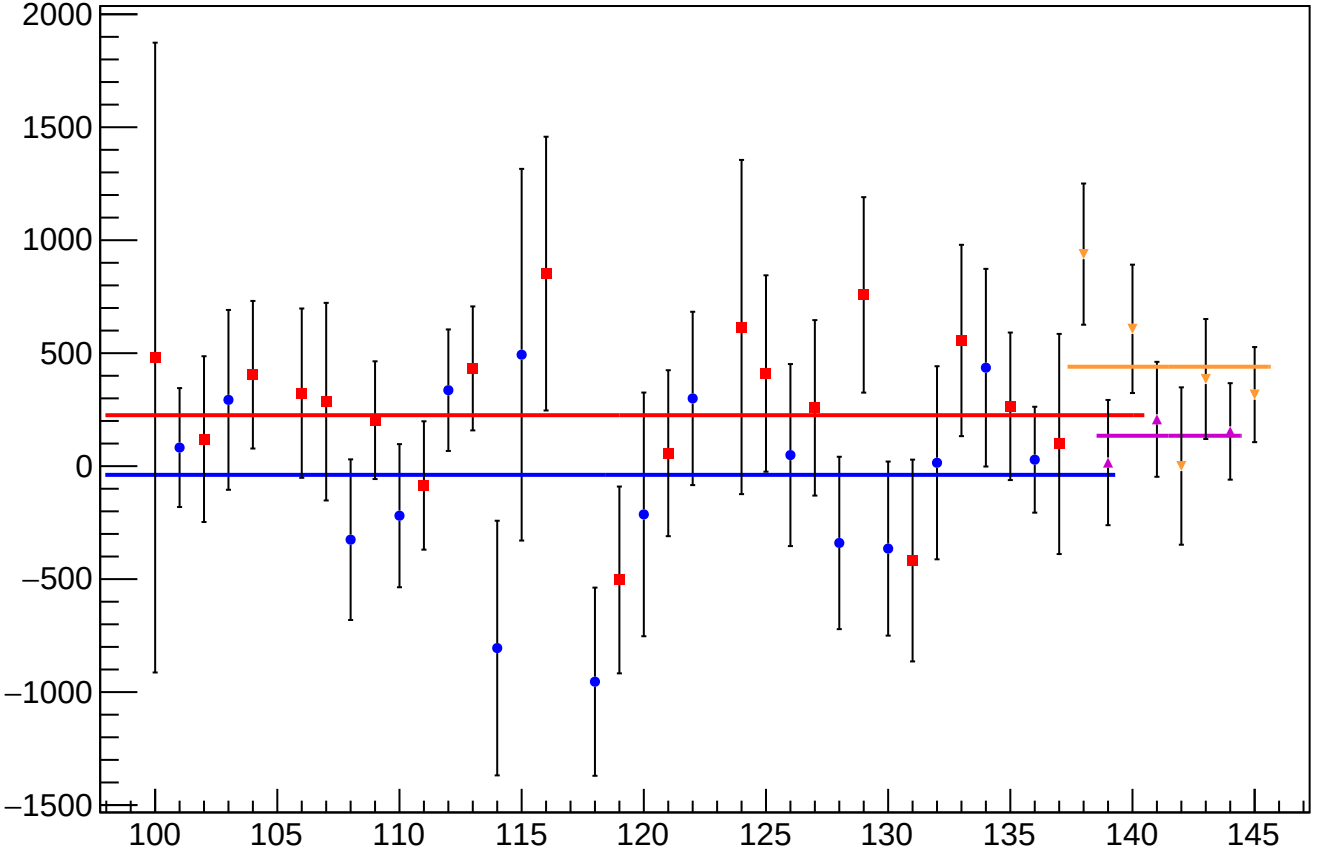
Right: 2395.904+/-0.460 $\chi^2$/NDF: 1979546.8/34

In: 2235.464+/-0.524 $\chi^2$/NDF:1291356.8/18

Out: 2121.985+/-0.468 $\chi^2$/NDF:1548290.1/23

All: 2172.411+/-0.349 $\chi^2$/NDF: 2865744.6/42

# eigen_cor_asym_sam4_mean vs Slug, Sign Corrected




Right In: -38.519+/-90.619 $\chi^2$/NDF: 14.5/15

Left Out: 440.022+/-121.592 $\chi^2$/NDF:4.9/4

Right Out: 225.515+/-87.922 $\chi^2$/NDF: 11.4/18

Left In: 134.513+/-140.841 $\chi^2$/NDF:0.3/2

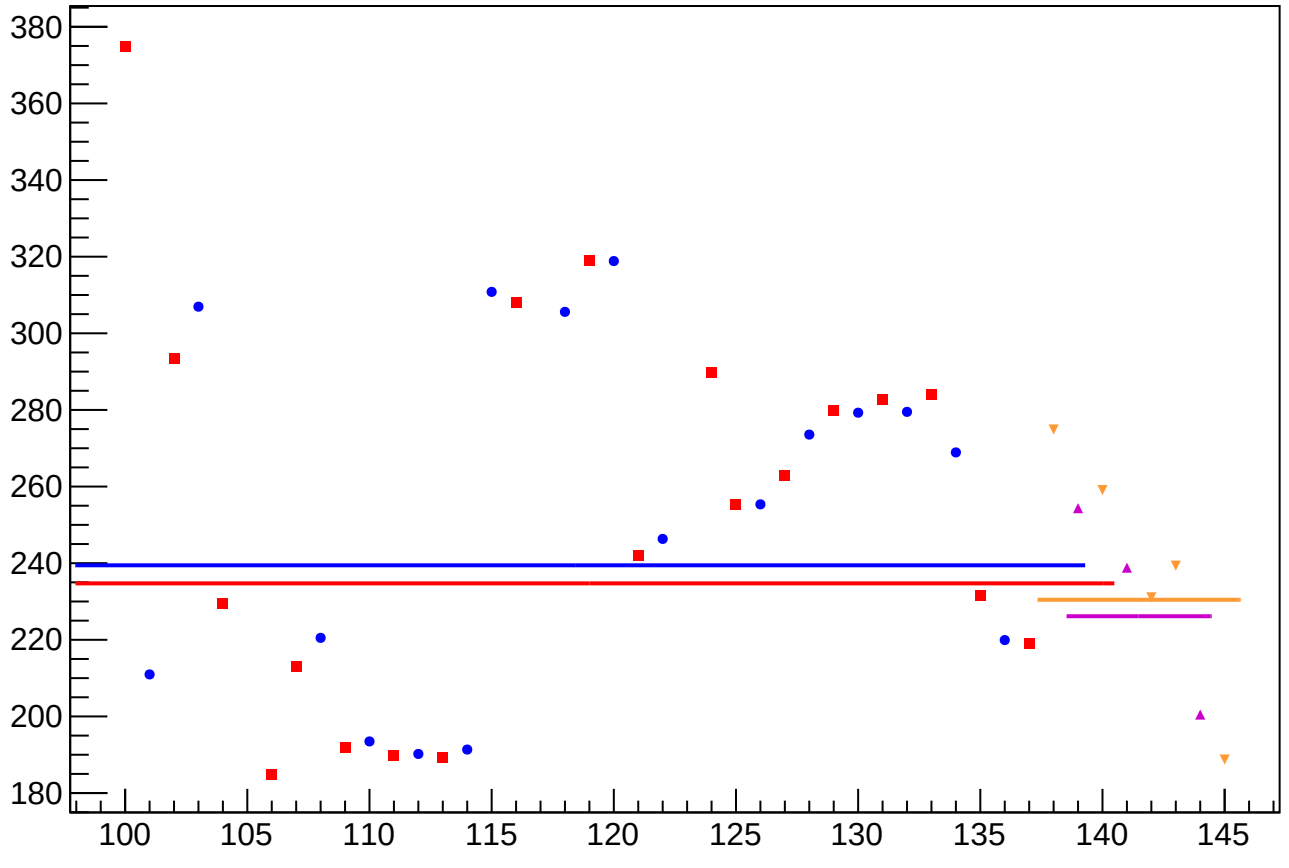
Left: 309.556+/-92.038 $\chi^2$/NDF: 7.8/7

Right: 97.485+/-63.102 $\chi^2$/NDF: 30.3/34

In: 12.140+/-76.207 $\chi^2$/NDF:15.8/18

Out: 299.163+/-71.247 $\chi^2$/NDF:18.3/23

All: 165.296+/-52.044 $\chi^2$/NDF: 41.7/42




Right In: 239.449+/-0.064 $\chi^2$/NDF: 400958.1/15

Left Out: 230.449+/-0.086 $\chi^2$/NDF:141512.4/4

Right Out: 234.733+/-0.062 $\chi^2$/NDF: 485238.4/18

Left In: 226.157+/-0.100 $\chi^2$/NDF:54584.7/2

Left: 228.616+/-0.065 $\chi^2$/NDF: 197161.0/7

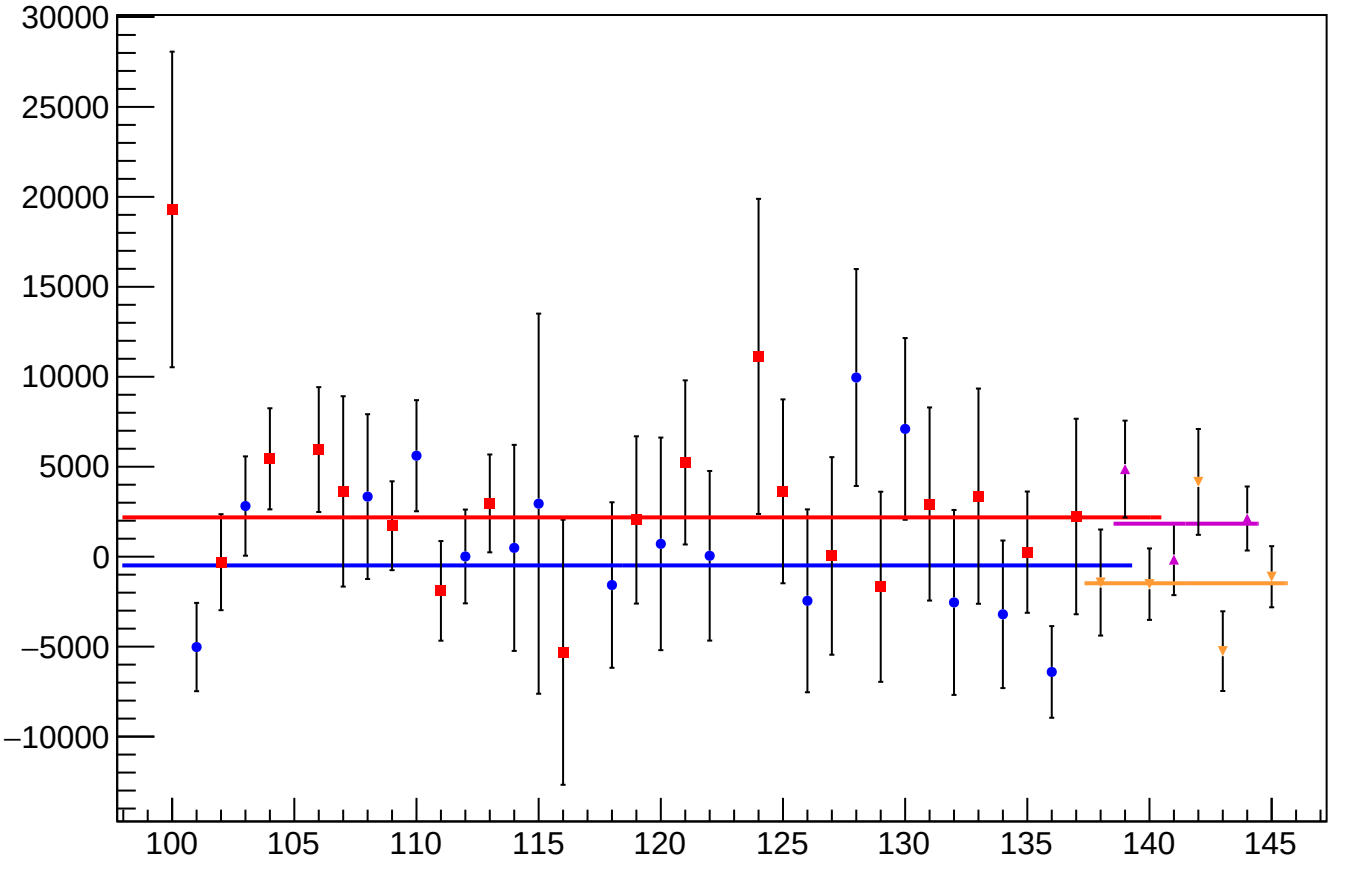
Right: 237.020+/-0.045 $\chi^2$/NDF: 888987.0/34

In: 235.558+/-0.054 $\chi^2$/NDF:468140.5/18

Out: 233.262+/-0.050 $\chi^2$/NDF:628381.1/23

All: 234.333+/-0.037 $\chi^2$/NDF: 1097490.1/42

asym_sam4_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -486.103+/-947.467 $\chi^2$/NDF: 21.1/15

Left Out: -1477.748+/-983.246 $\chi^2$/NDF:6.6/4

Right Out: 2184.834+/-895.863 $\chi^2$/NDF: 13.3/18

Left In: 1833.902+/-1186.986 $\chi^2$/NDF:2.3/2

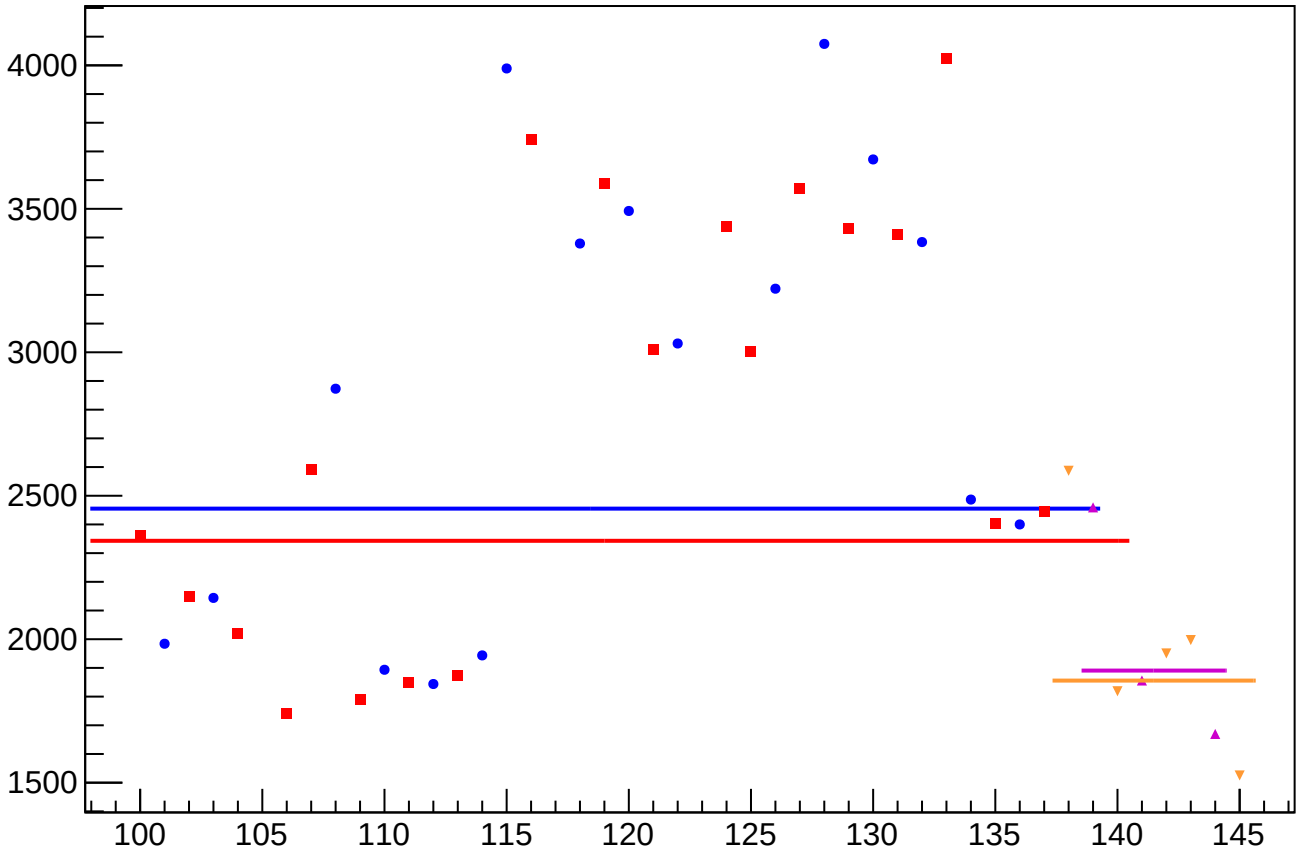
Left: -130.102+/-757.201 $\chi^2$/NDF: 13.5/7

Right: 924.081+/-650.950 $\chi^2$/NDF: 38.6/34

In: 416.797+/-740.493 $\chi^2$/NDF:25.8/18

Out: 523.495+/-662.213 $\chi^2$/NDF:27.4/23

All: 476.082+/-493.619 $\chi^2$/NDF: 53.2/42




Right In: 2455.127+/-0.670 $\chi^2$/NDF: 894358.3/15

Left Out: 1855.806+/-0.695 $\chi^2$/NDF:209650.5/4

Right Out: 2342.955+/-0.633 $\chi^2$/NDF: 1070387.8/18

Left In: 1890.700+/-0.839 $\chi^2$/NDF:120770.6/2

Left: 1870.006+/-0.535 $\chi^2$/NDF: 331446.1/7

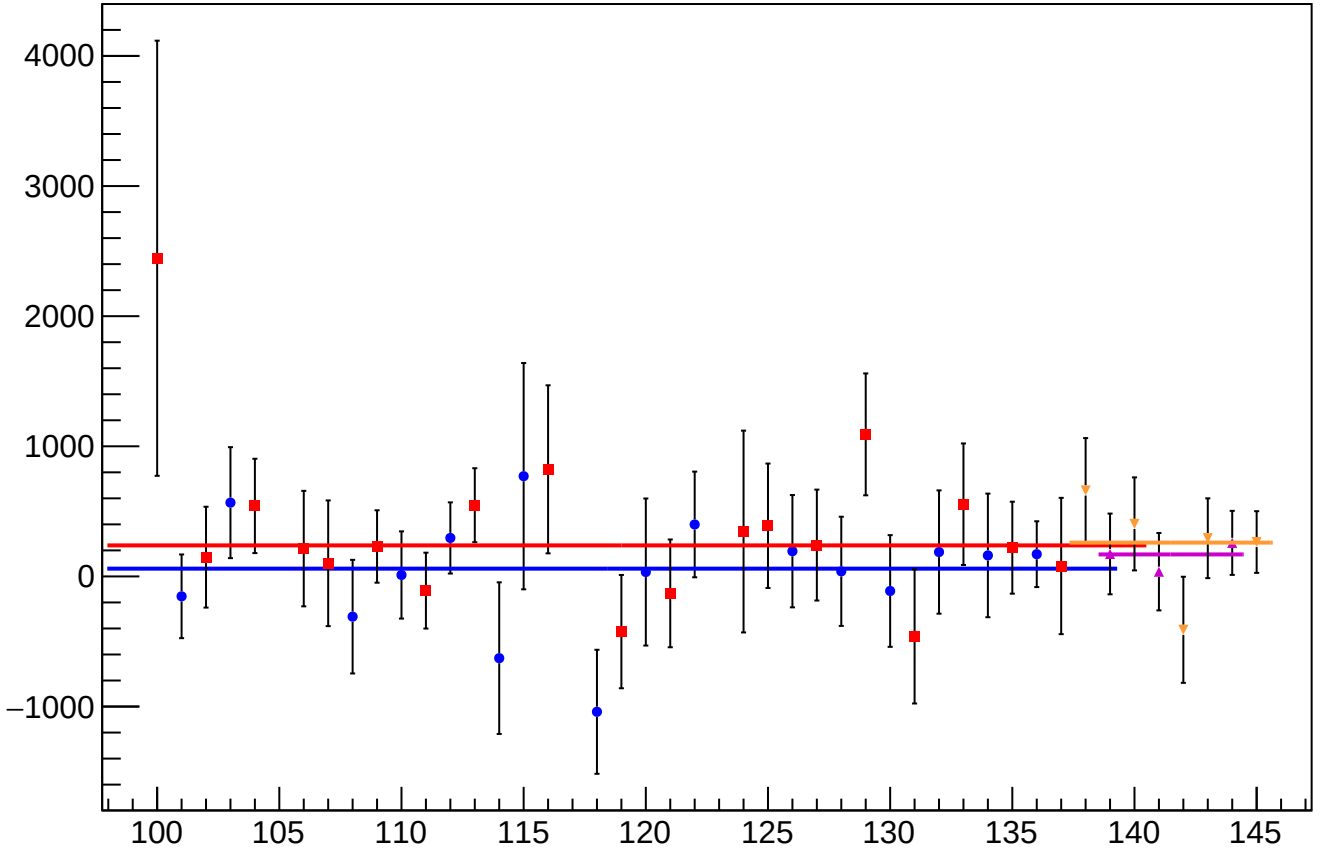
Right: 2395.904+/-0.460 $\chi^2$/NDF: 1979546.8/34

In: 2235.464+/-0.524 $\chi^2$/NDF:1291356.8/18

Out: 2121.985+/-0.468 $\chi^2$/NDF:1548290.1/23

All: 2172.411+/-0.349 $\chi^2$/NDF: 2865744.6/42

# dit_asym_sam4_mean vs Slug, Sign Corrected




Right In: 59.728+/-99.230 $\chi^2$/NDF: 12.0/15

Left Out: 259.861+/-143.664 $\chi^2$/NDF:3.9/4

Right Out: 238.516+/-95.062 $\chi^2$/NDF: 14.9/18

Left In: 169.061+/-161.751 $\chi^2$/NDF:0.3/2

Left: 219.819+/-107.414 $\chi^2$/NDF: 4.4/7

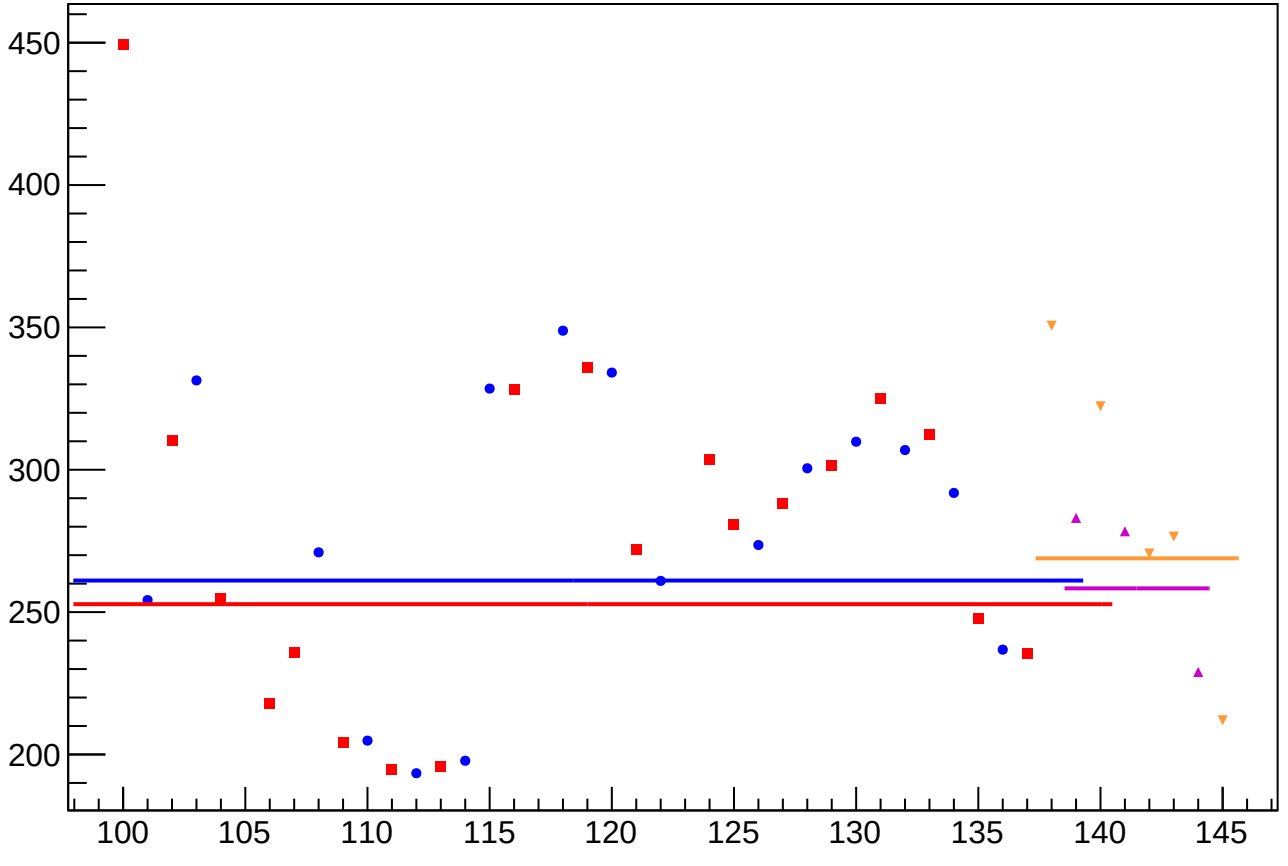
Right: 152.955+/-68.645 $\chi^2$/NDF: 28.6/34

In: 89.624+/-84.582 $\chi^2$/NDF:12.7/18

Out: 245.016+/-79.278 $\chi^2$/NDF:18.8/23

All: 172.344+/-57.842 $\chi^2$/NDF: 33.3/42

# dit_asym_sam4_rms vs Slug, Sign Corrected




Right In: 261.089+/-0.070 $\chi^2$/NDF: 462662.2/15

Left Out: 268.884+/-0.102 $\chi^2$/NDF:243454.9/4

Right Out: 252.787+/-0.067 $\chi^2$/NDF: 537290.6/18

Left In: 258.335+/-0.114 $\chi^2$/NDF:50296.6/2

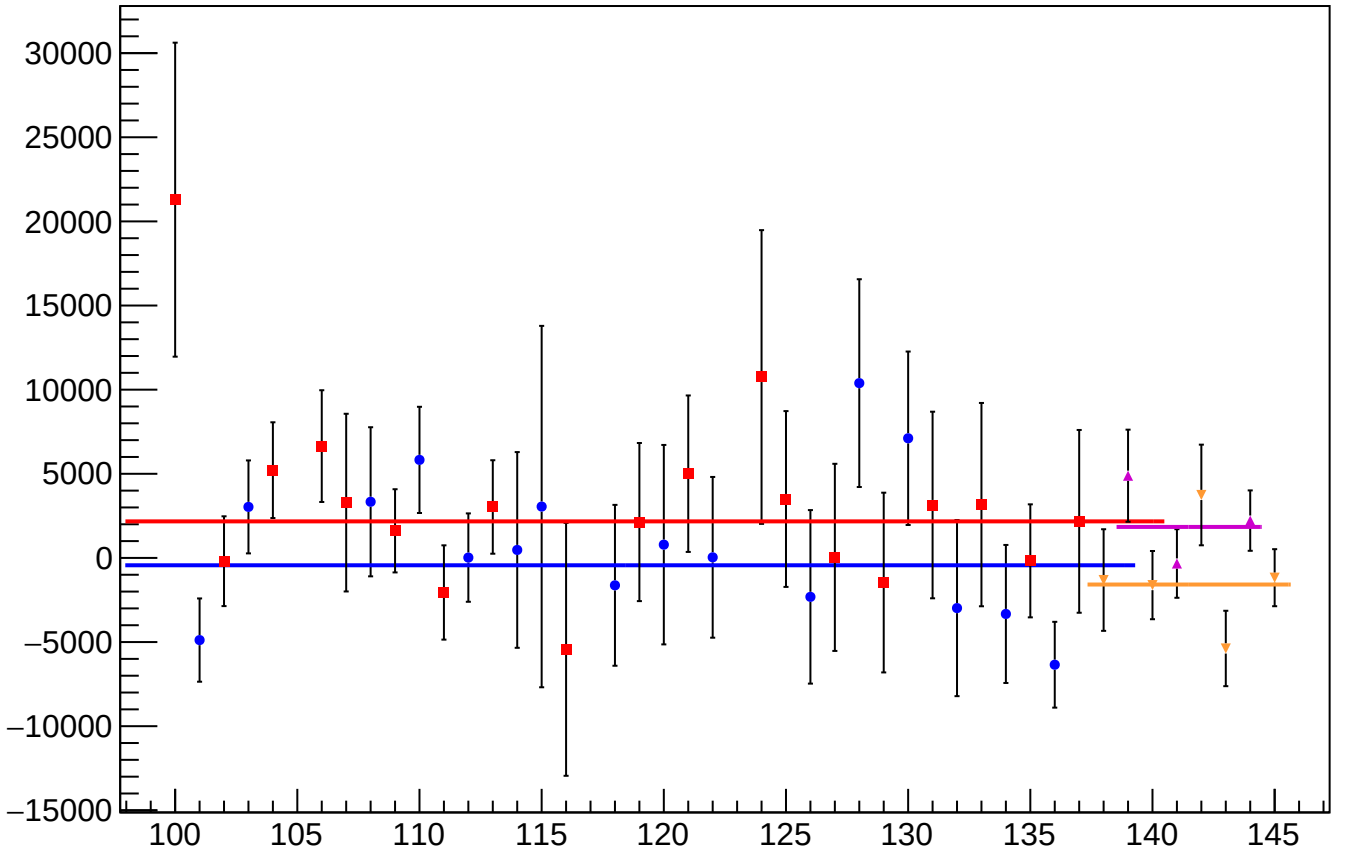
Left: 264.232+/-0.076 $\chi^2$/NDF: 298507.2/7

Right: 256.760+/-0.049 $\chi^2$/NDF: 1007252.4/34

In: 260.336+/-0.060 $\chi^2$/NDF:513380.1/18

Out: 257.689+/-0.056 $\chi^2$/NDF:798208.1/23

All: 258.927+/-0.041 $\chi^2$/NDF: 1312630.9/42




Right In: -436.732+/-955.134 $\chi^2$/NDF: 21.2/15

Left Out: -1580.914+/-994.021 $\chi^2$/NDF:6.1/4

Right Out: 2172.091+/-901.102 $\chi^2$/NDF: 14.0/18

Left In: 1842.131+/-1208.527 $\chi^2$/NDF:2.4/2

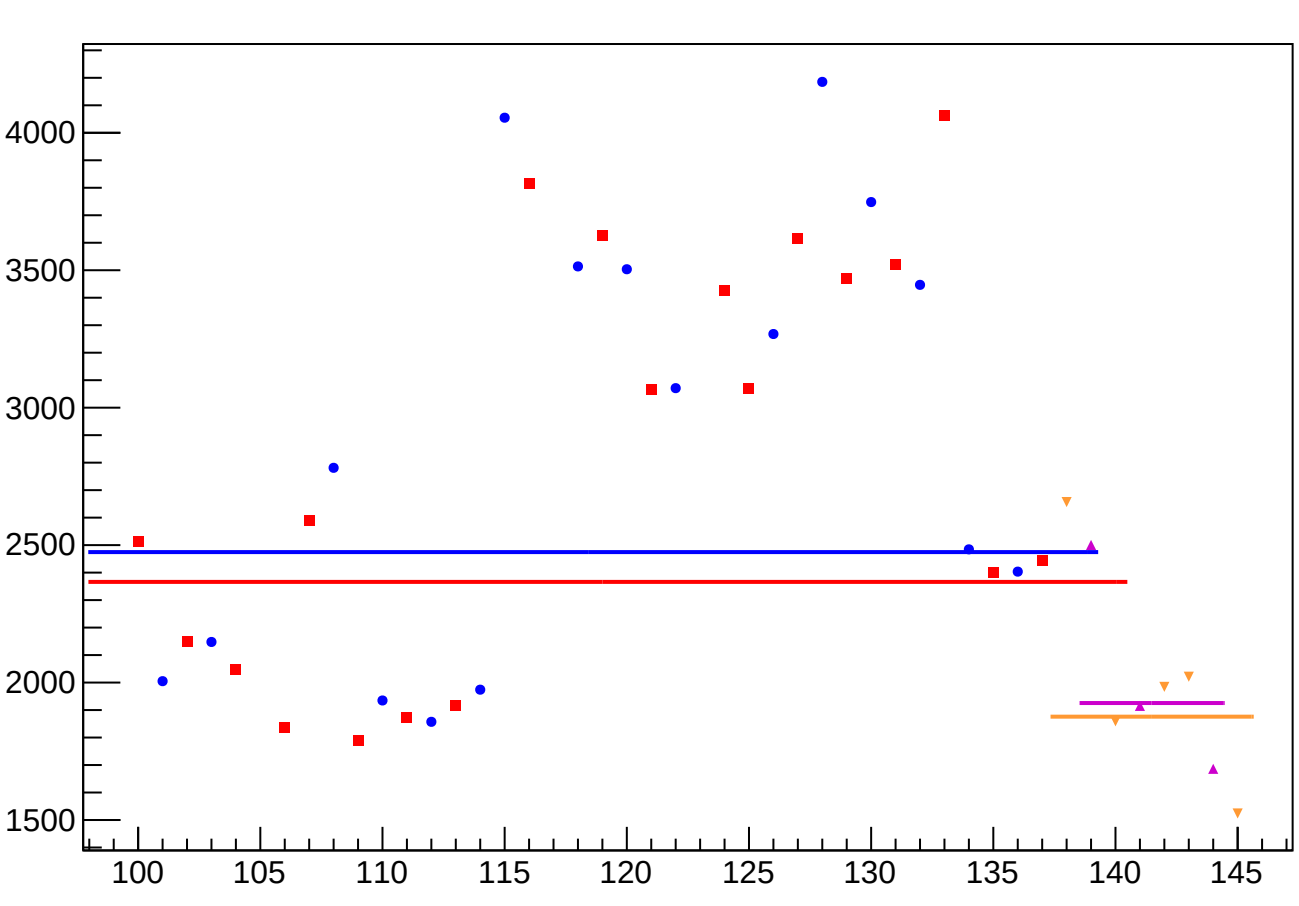
Left: -199.630+/-767.700 $\chi^2$/NDF: 13.3/7

Right: 943.553+/-655.445 $\chi^2$/NDF: 39.1/34

In: 439.425+/-749.356 $\chi^2$/NDF:25.8/18

Out: 479.159+/-667.614 $\chi^2$/NDF:27.9/23

All: 461.577+/-498.479 $\chi^2$/NDF: 53.7/42




Right In: 2474.622+/-0.675 $\chi^2$/NDF: 916250.9/15

Left Out: 1875.951+/-0.703 $\chi^2$/NDF:231220.0/4

Right Out: 2366.221+/-0.637 $\chi^2$/NDF: 1077175.3/18

Left In: 1925.532+/-0.855 $\chi^2$/NDF:123930.3/2

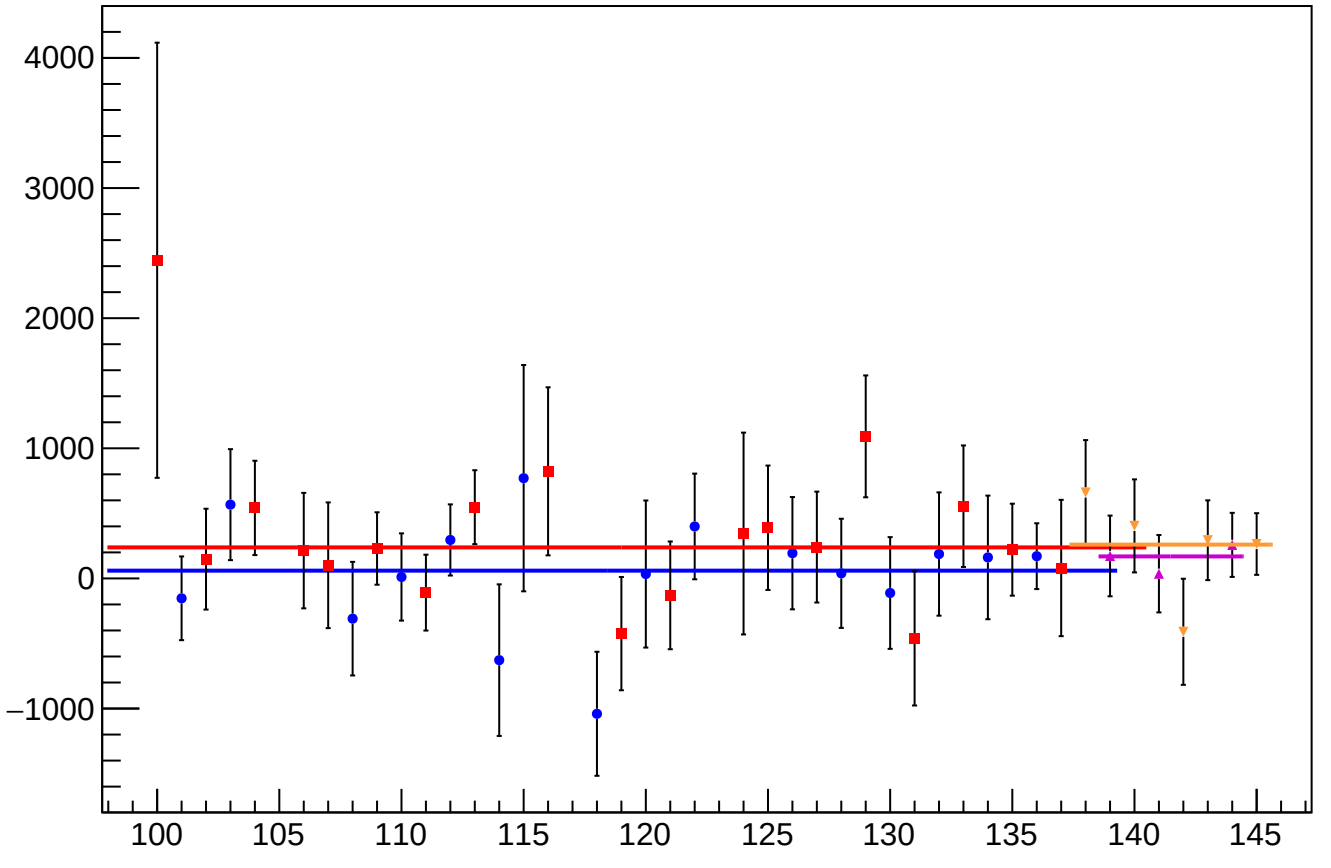
Left: 1895.958+/-0.543 $\chi^2$/NDF: 357158.2/7

Right: 2417.269+/-0.463 $\chi^2$/NDF: 2007056.0/34

In: 2263.513+/-0.530 $\chi^2$/NDF:1294308.8/18

Out: 2145.067+/-0.472 $\chi^2$/NDF:1575458.3/23

All: 2197.479+/-0.352 $\chi^2$/NDF: 2897624.2/42




Right In: 59.734+/-99.230 $\chi^2$/NDF: 12.0/15

Left Out: 259.862+/-143.665 $\chi^2$/NDF:3.9/4

Right Out: 238.515+/-95.062 $\chi^2$/NDF: 14.9/18

Left In: 169.062+/-161.752 $\chi^2$/NDF:0.3/2

Left: 219.821+/-107.414 $\chi^2$/NDF: 4.4/7

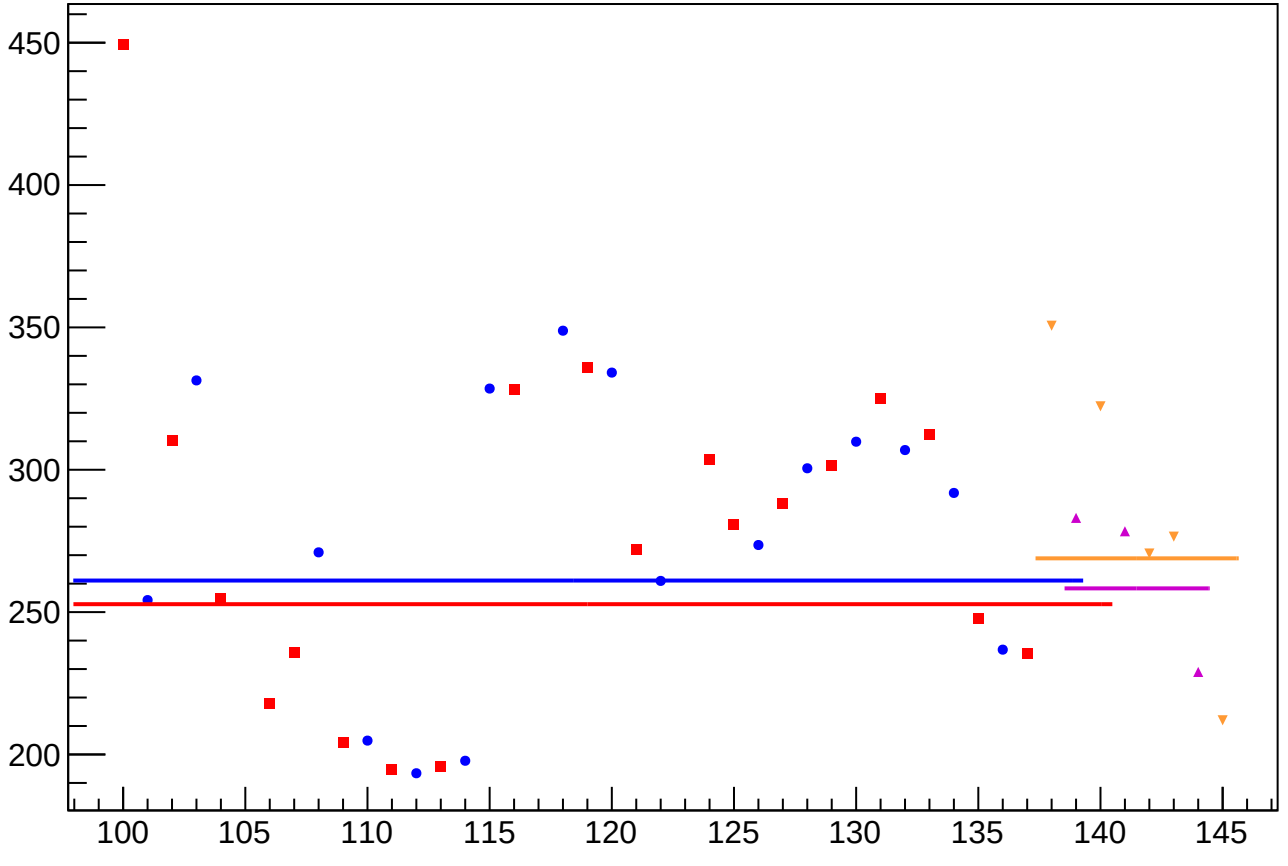
Right: 152.957+/-68.645 $\chi^2$/NDF: 28.6/34

In: 89.628+/-84.582 $\chi^2$/NDF:12.7/18

Out: 245.016+/-79.278 $\chi^2$/NDF:18.8/23

All: 172.346+/-57.842 $\chi^2$/NDF: 33.3/42

# eigen_dit_asym_sam4_rms vs Slug, Sign Corrected




Right In: 261.089+/-0.070 $\chi^2$/NDF: 462665.3/15

Left Out: 268.885+/-0.102 $\chi^2$/NDF:243450.8/4

Right Out: 252.787+/-0.067 $\chi^2$/NDF: 537293.8/18

Left In: 258.335+/-0.114 $\chi^2$/NDF:50294.9/2

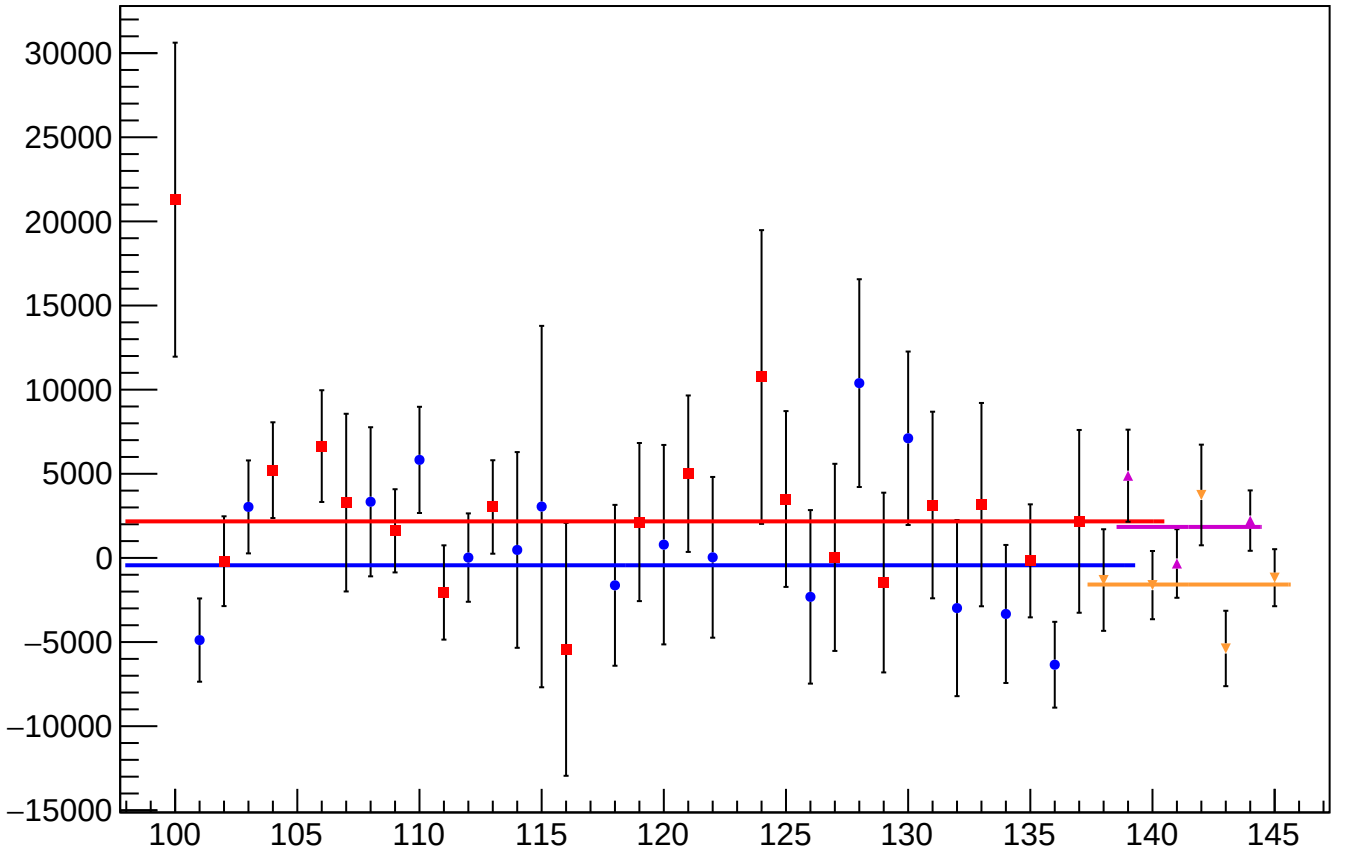
Left: 264.232+/-0.076 $\chi^2$/NDF: 298501.5/7

Right: 256.760+/-0.049 $\chi^2$/NDF: 1007258.7/34

In: 260.336+/-0.060 $\chi^2$/NDF:513381.3/18

Out: 257.689+/-0.056 $\chi^2$/NDF:798208.4/23

All: 258.927+/-0.041 $\chi^2$/NDF: 1312632.4/42




Right In: -436.731+/-955.133 $\chi^2$/NDF: 21.2/15

Left Out: -1580.914+/-994.019 $\chi^2$/NDF:6.1/4

Right Out: 2172.089+/-901.101 $\chi^2$/NDF: 14.0/18

Left In: 1842.130+/-1208.526 $\chi^2$/NDF:2.4/2

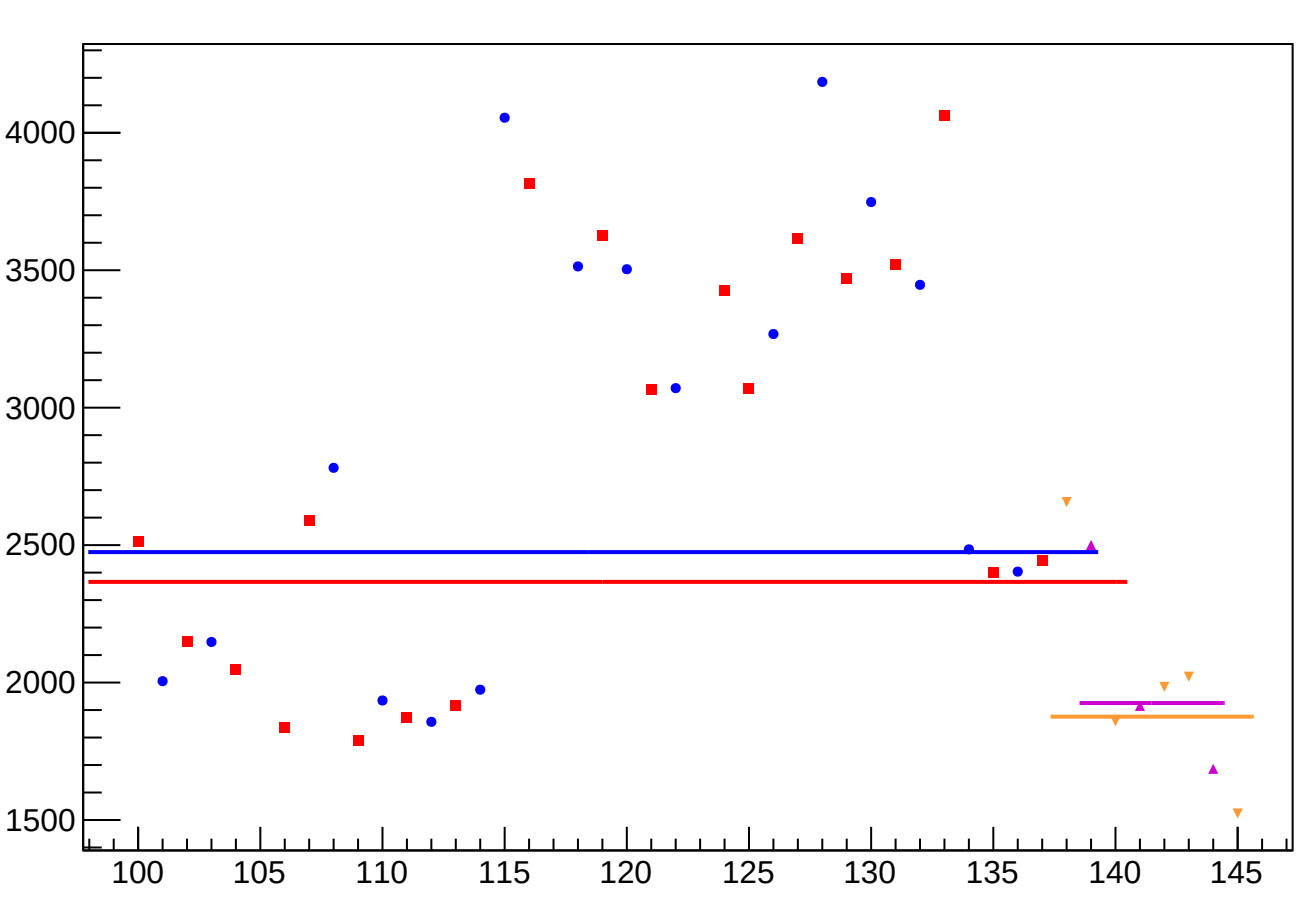
Left: -199.631+/-767.699 $\chi^2$/NDF: 13.3/7

Right: 943.553+/-655.444 $\chi^2$/NDF: 39.1/34

In: 439.426+/-749.356 $\chi^2$/NDF:25.8/18

Out: 479.156+/-667.614 $\chi^2$/NDF:27.9/23

All: 461.576+/-498.478 $\chi^2$/NDF: 53.7/42




Right In: 2474.620+/-0.675 $\chi^2$/NDF: 916254.1/15

Left Out: 1875.947+/-0.703 $\chi^2$/NDF:231221.5/4

Right Out: 2366.219+/-0.637 $\chi^2$/NDF: 1077177.7/18

Left In: 1925.530+/-0.855 $\chi^2$/NDF:123930.2/2

Left: 1895.955+/-0.543 $\chi^2$/NDF: 357159.8/7

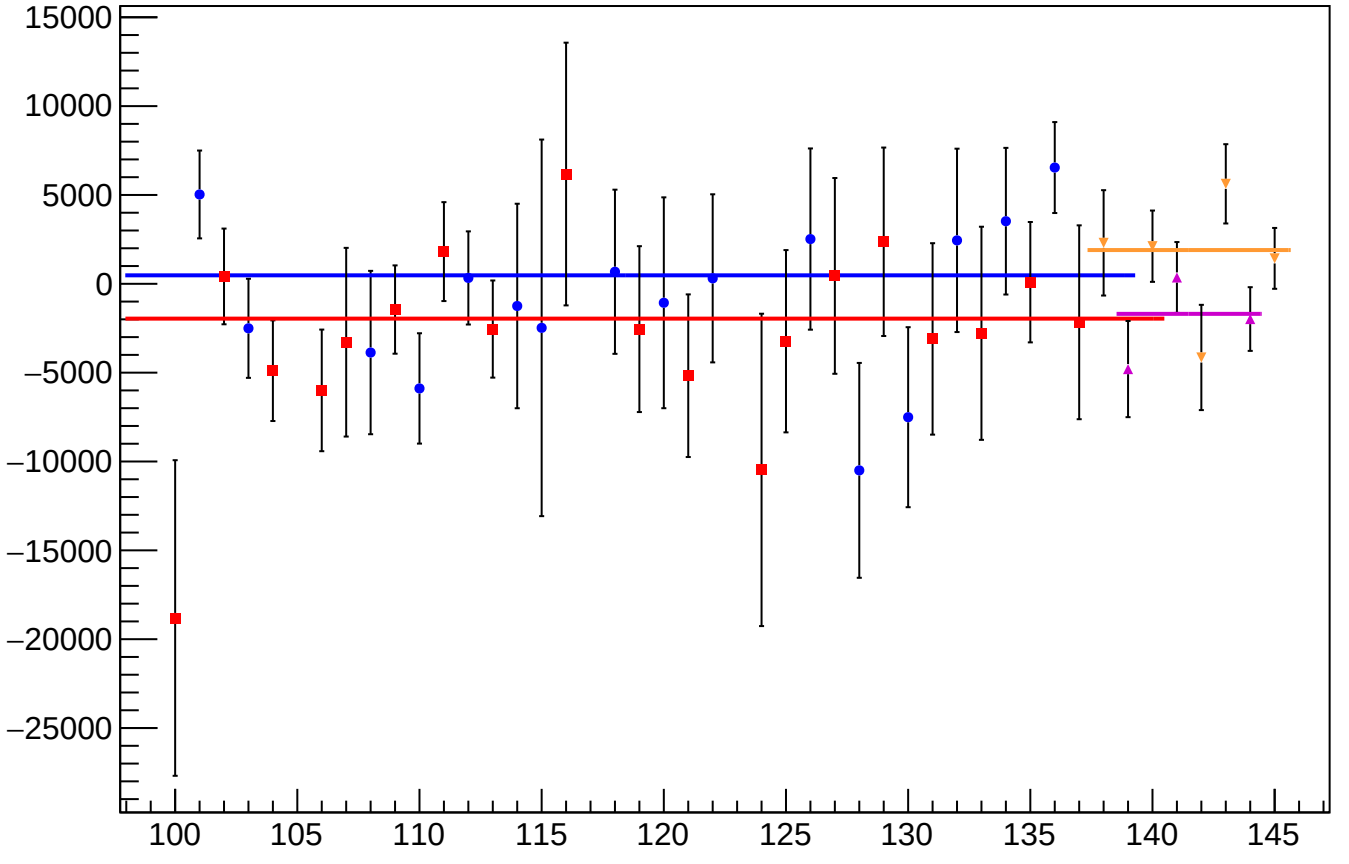
Right: 2417.267+/-0.463 $\chi^2$/NDF: 2007061.7/34

In: 2263.511+/-0.530 $\chi^2$/NDF:1294313.0/18

Out: 2145.064+/-0.472 $\chi^2$/NDF:1575464.9/23

All: 2197.477+/-0.352 $\chi^2$/NDF: 2897635.6/42

# asym_sam4_mean vs Slug, Sign Corrected




Right In: 477.284+/-952.752 $\chi^2$/NDF: 22.1/15

Left Out: 1899.554+/-991.119 $\chi^2$/NDF:7.1/4

Right Out: -1959.491+/-899.702 $\chi^2$/NDF: 12.8/18

Left In: -1691.089+/-1195.688 $\chi^2$/NDF:2.4/2

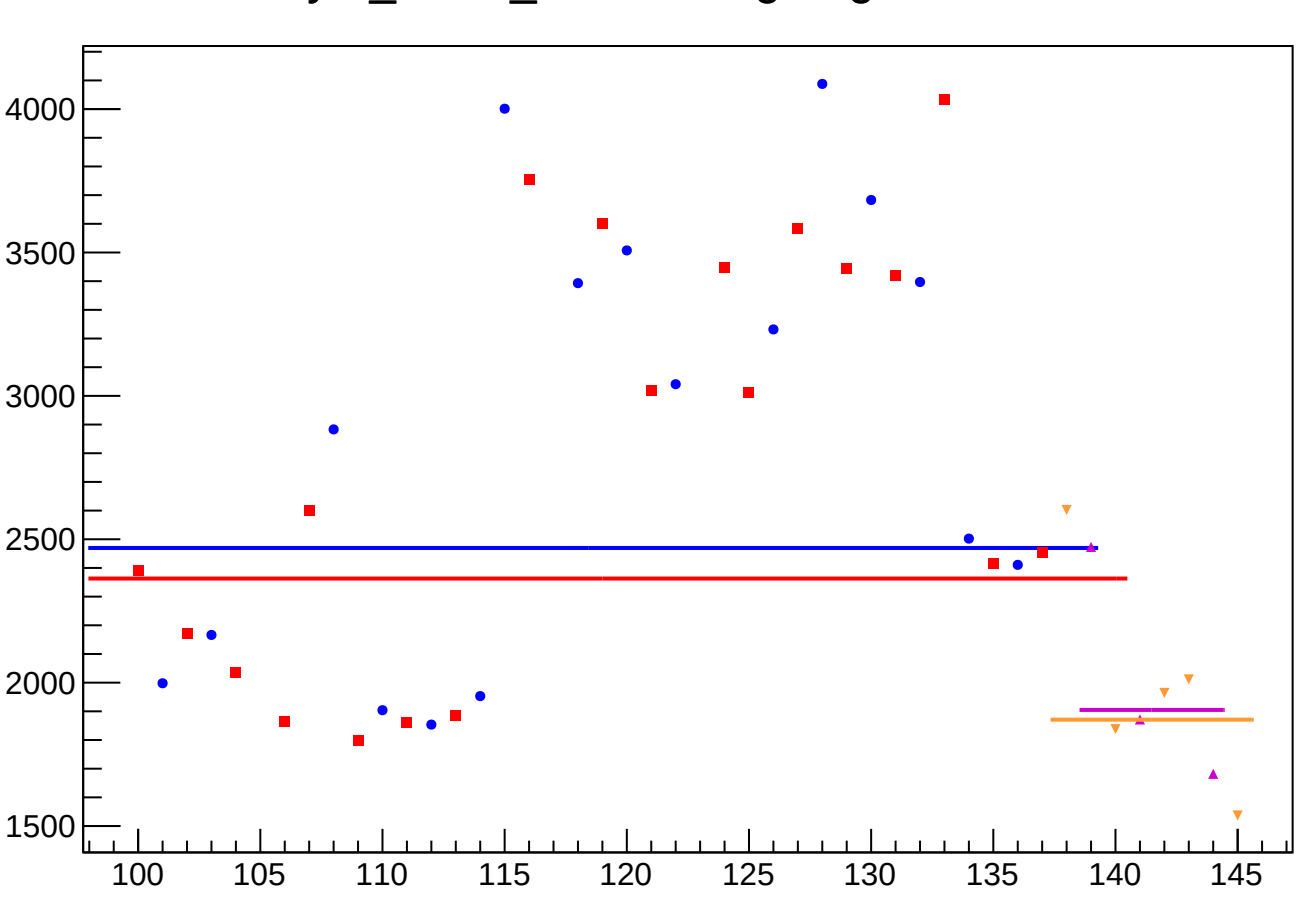
Left: 437.212+/-763.056 $\chi^2$/NDF: 14.8/7

Right: -810.830+/-654.136 $\chi^2$/NDF: 38.4/34

In: -364.808+/-745.128 $\chi^2$/NDF:26.5/18

Out: -216.110+/-666.165 $\chi^2$/NDF:28.2/23

All: -282.165+/-496.629 $\chi^2$/NDF: 54.8/42




Right In: 2469.639+/-0.674 $\chi^2$/NDF: 886179.0/15

Left Out: 1870.892+/-0.701 $\chi^2$/NDF:208175.8/4

Right Out: 2363.052+/-0.636 $\chi^2$/NDF: 1043344.3/18

Left In: 1904.868+/-0.845 $\chi^2$/NDF:119715.1/2

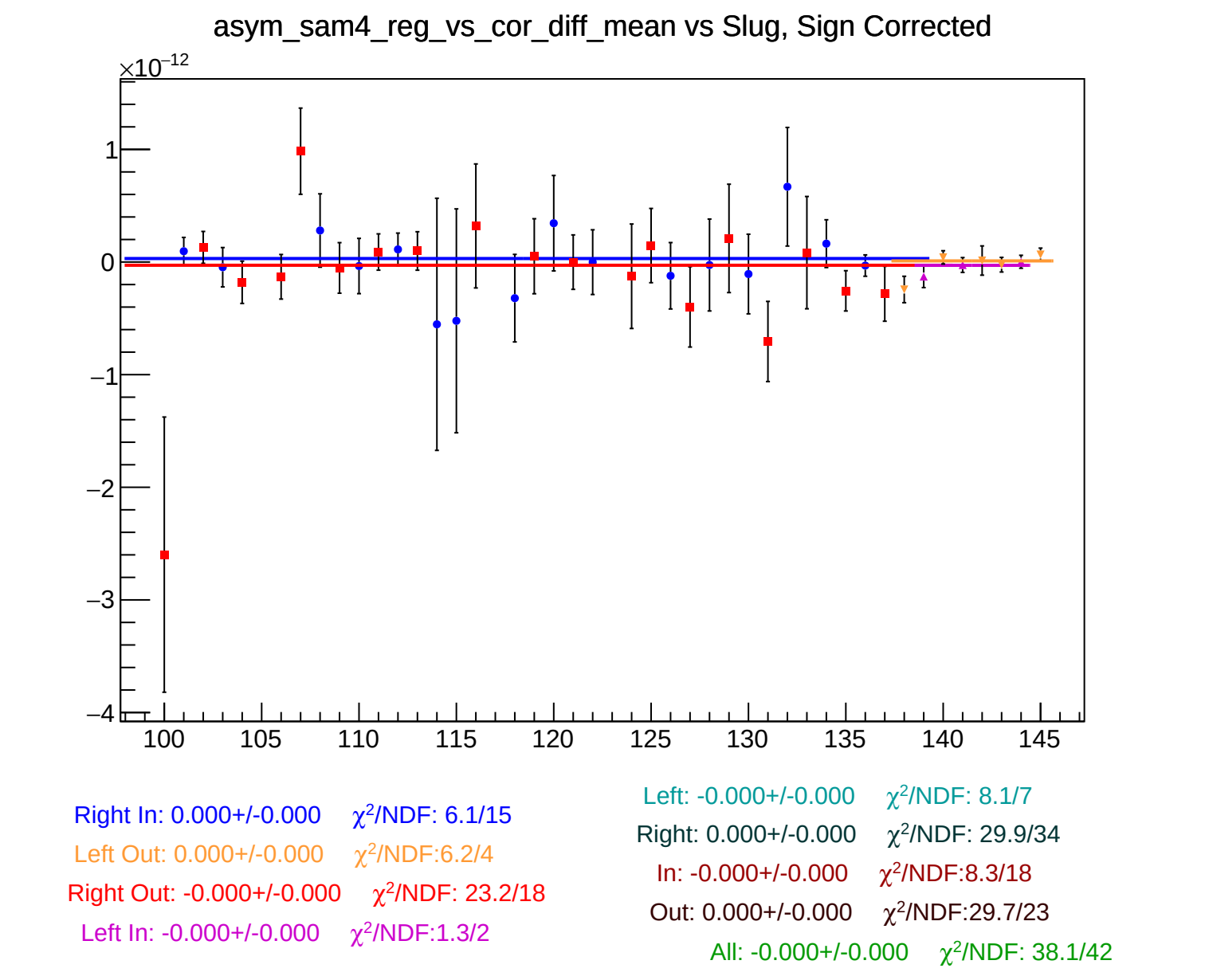
Left: 1884.729+/-0.540 $\chi^2$/NDF: 328848.1/7

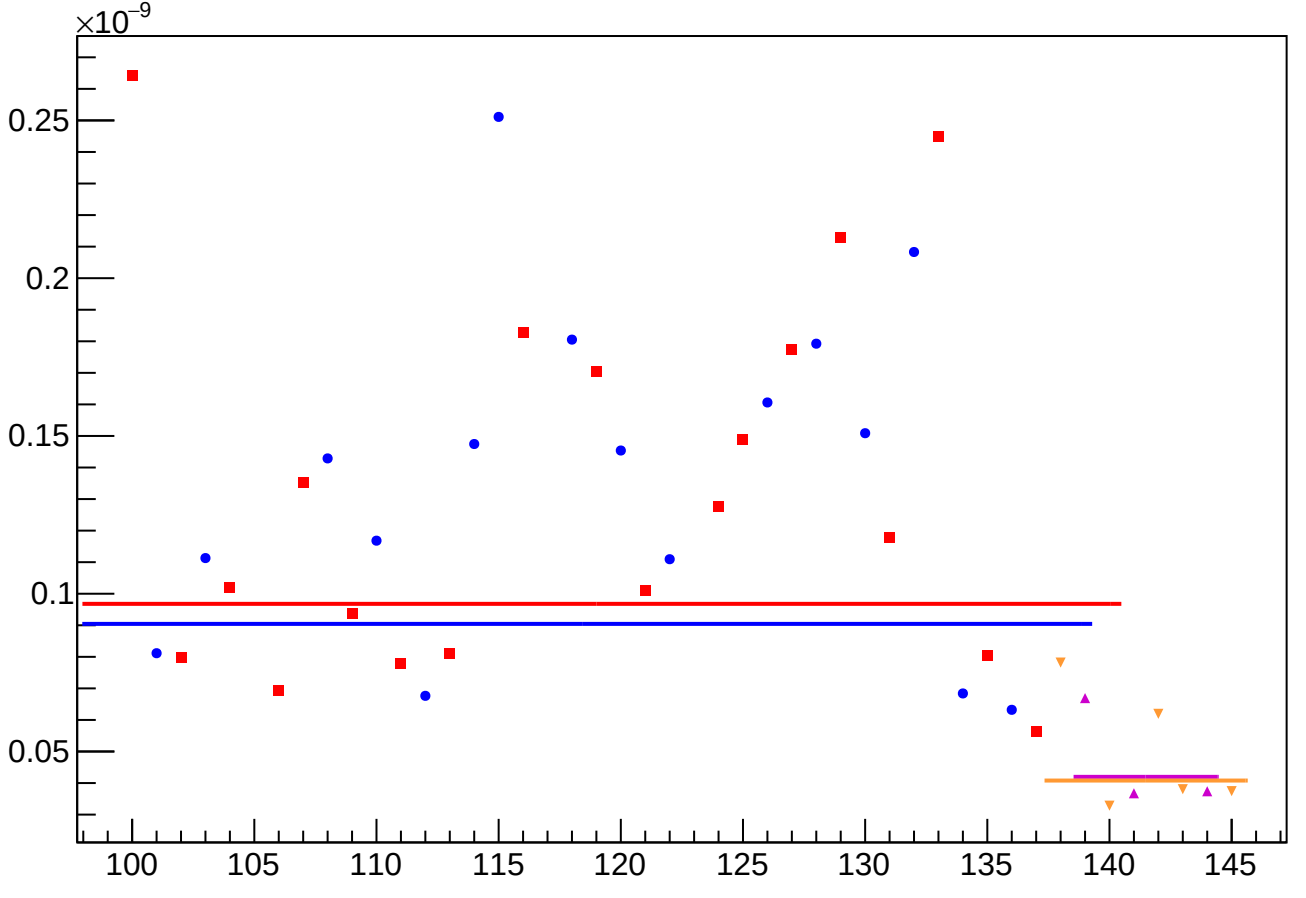
Right: 2413.296+/-0.463 $\chi^2$/NDF: 1942755.0/34

In: 2250.309+/-0.527 $\chi^2$/NDF:1278817.3/18

Out: 2140.712+/-0.471 $\chi^2$/NDF:1521889.7/23

All: 2189.398+/-0.351 $\chi^2$/NDF: 2824754.3/42


asym_sam4_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
−4
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 6.1/15
Left Out: 0.000+/-0.000 χ²/NDF:6.2/4
Right Out: -0.000+/-0.000 χ²/NDF: 23.2/18
Left In: -0.000+/-0.000 χ²/NDF:1.3/2
Left: -0.000+/-0.000 χ²/NDF: 8.1/7
Right: 0.000+/-0.000 χ²/NDF: 29.9/34
In: -0.000+/-0.000 χ²/NDF:8.3/18
Out: 0.000+/-0.000 χ²/NDF:29.7/23
All: -0.000+/-0.000 χ²/NDF: 38.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 926723.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:303161.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 851500.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:154712.0/2

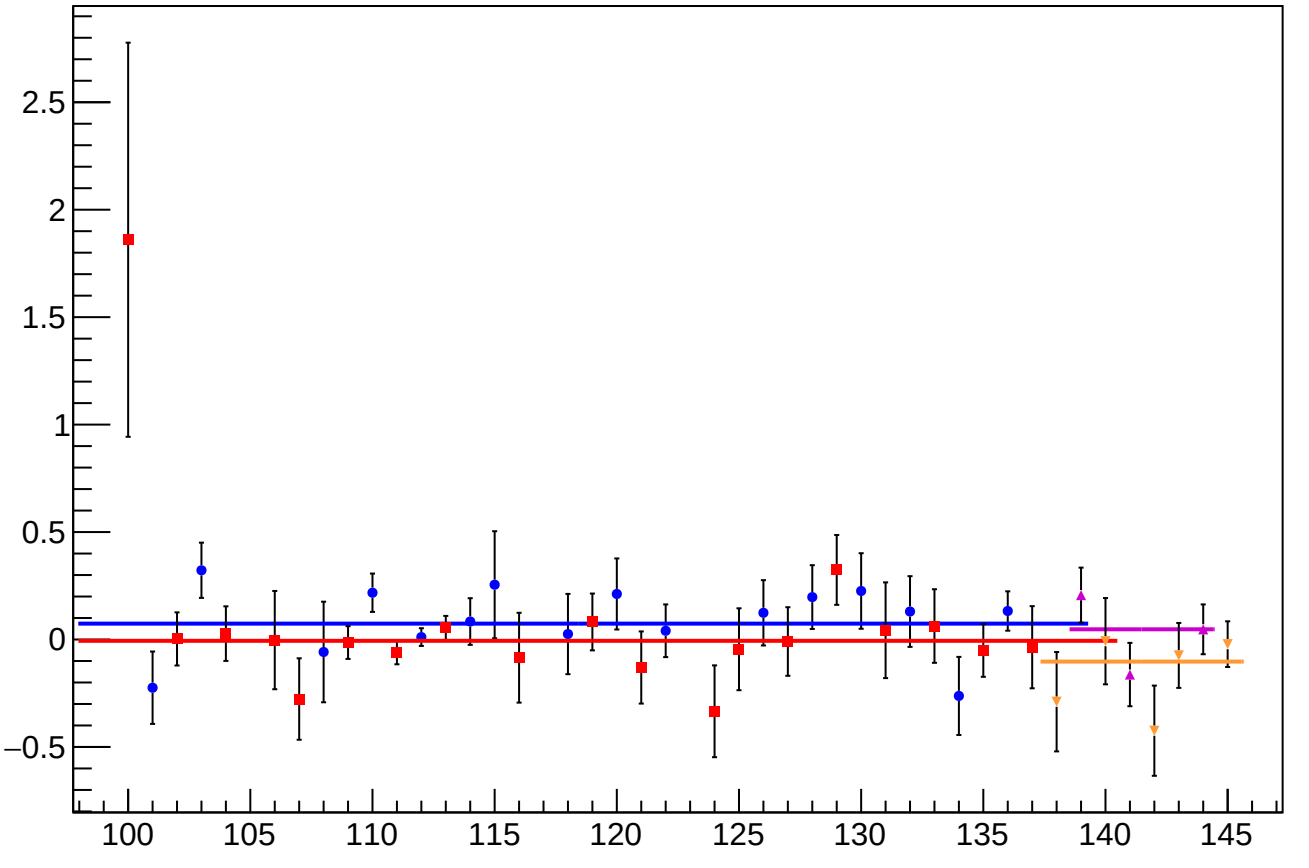
Left: 0.000+/-0.000 $\chi^2$/NDF: 458930.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 1791911.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:2167467.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2659700.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4852405.4/42




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.103+/-0.071 $\chi^2$/NDF:3.8/4

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.048+/-0.074 $\chi^2$/NDF:3.6/2

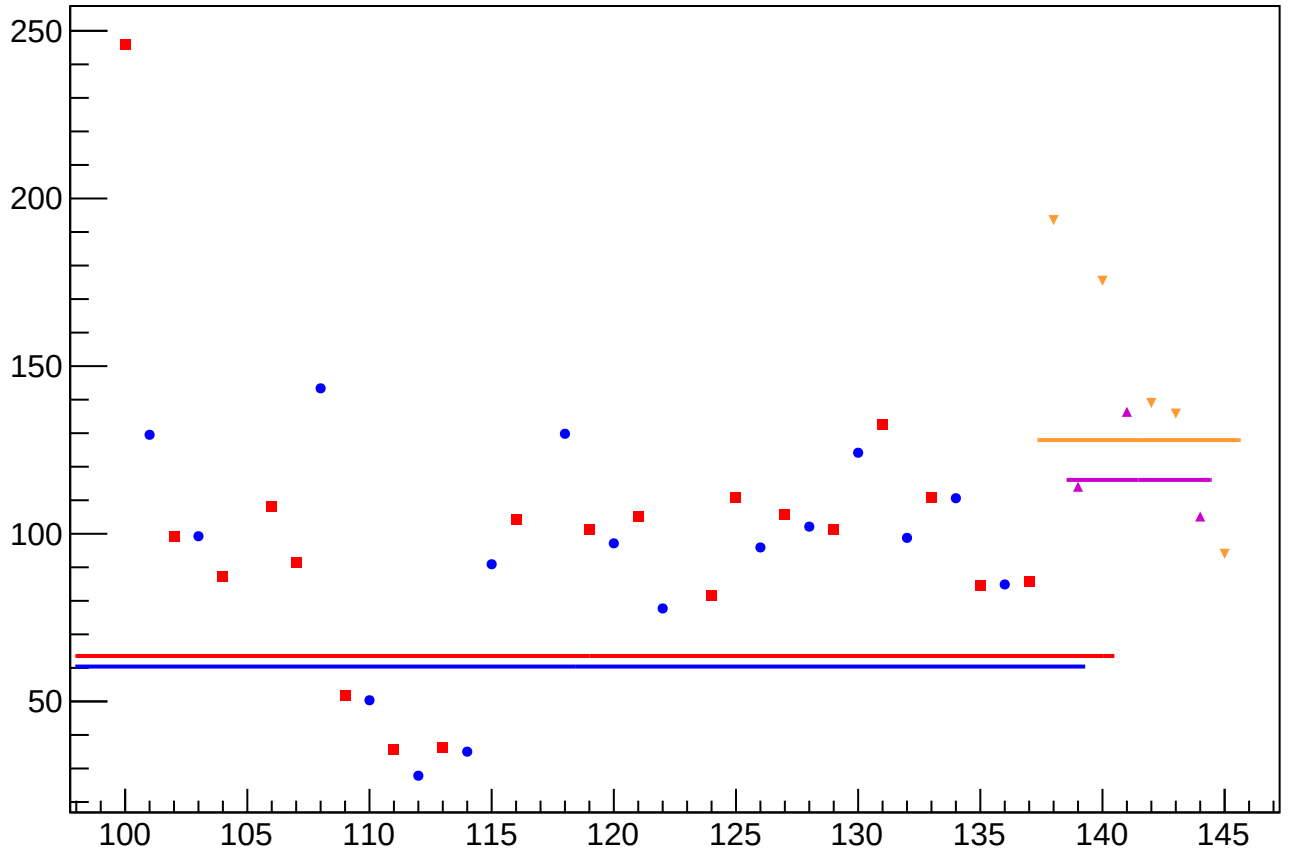
Left: -0.031+/-0.051 $\chi^2$/NDF: 9.6/7

Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.071+/-0.025 $\chi^2$/NDF:22.7/18

Out: -0.018+/-0.025 $\chi^2$/NDF:21.9/23

All: 0.026+/-0.018 $\chi^2$/NDF: 50.8/42




Right In: 60.401+/-0.019 $\chi^2$/NDF: 3538126.0/15

Left Out: 127.943+/-0.050 $\chi^2$/NDF:487666.7/4

Right Out: 63.553+/-0.019 $\chi^2$/NDF: 2654516.9/18

Left In: 116.060+/-0.052 $\chi^2$/NDF:56204.0/2

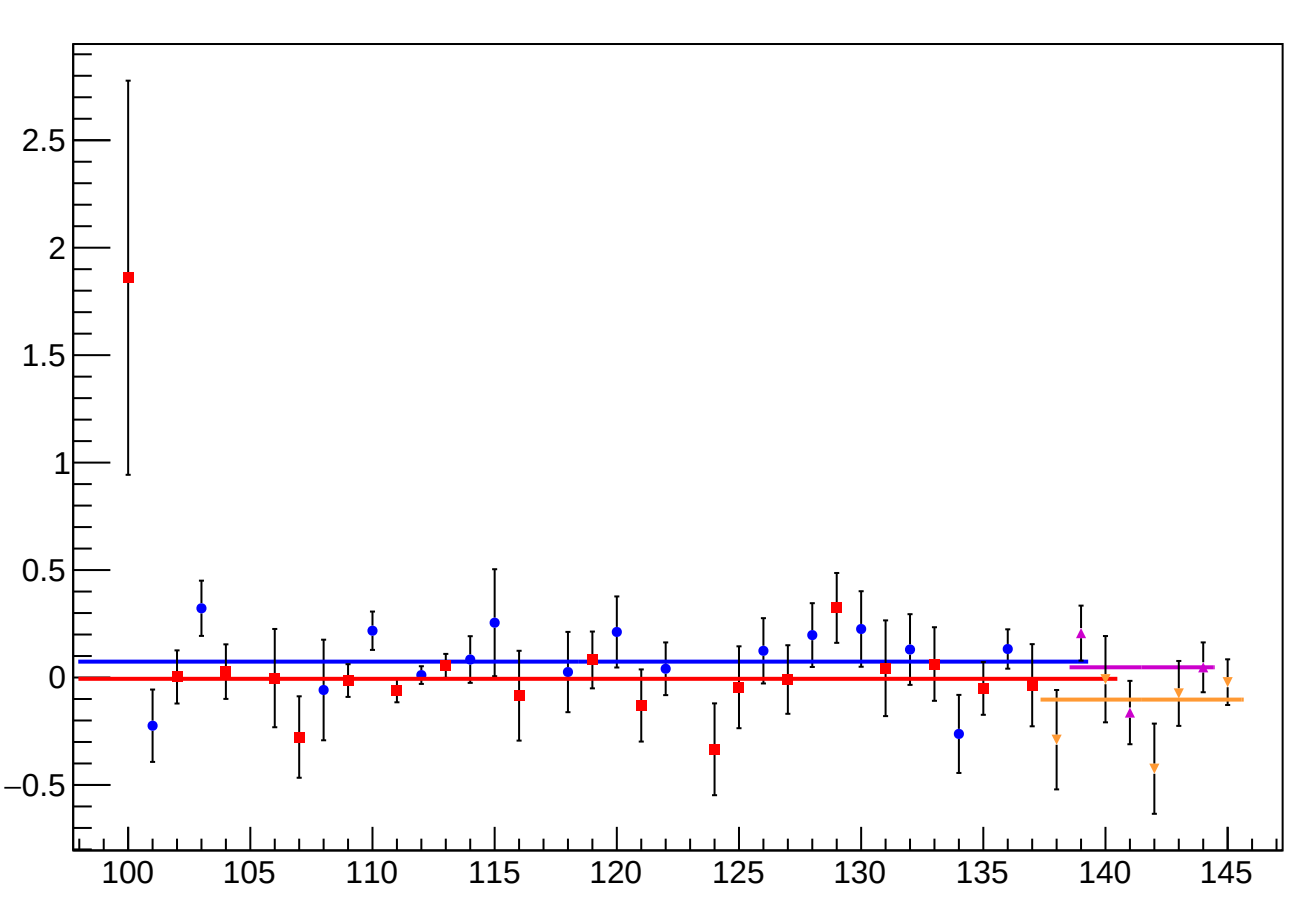
Left: 122.269+/-0.036 $\chi^2$/NDF: 570643.2/7

Right: 61.987+/-0.013 $\chi^2$/NDF: 6206346.3/34

In: 66.909+/-0.018 $\chi^2$/NDF:4587186.9/18

Out: 71.604+/-0.018 $\chi^2$/NDF:4582580.8/23

All: 69.283+/-0.013 $\chi^2$/NDF: 9204376.3/42




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.103+/-0.071 $\chi^2$/NDF:3.8/4

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.048+/-0.074 $\chi^2$/NDF:3.6/2

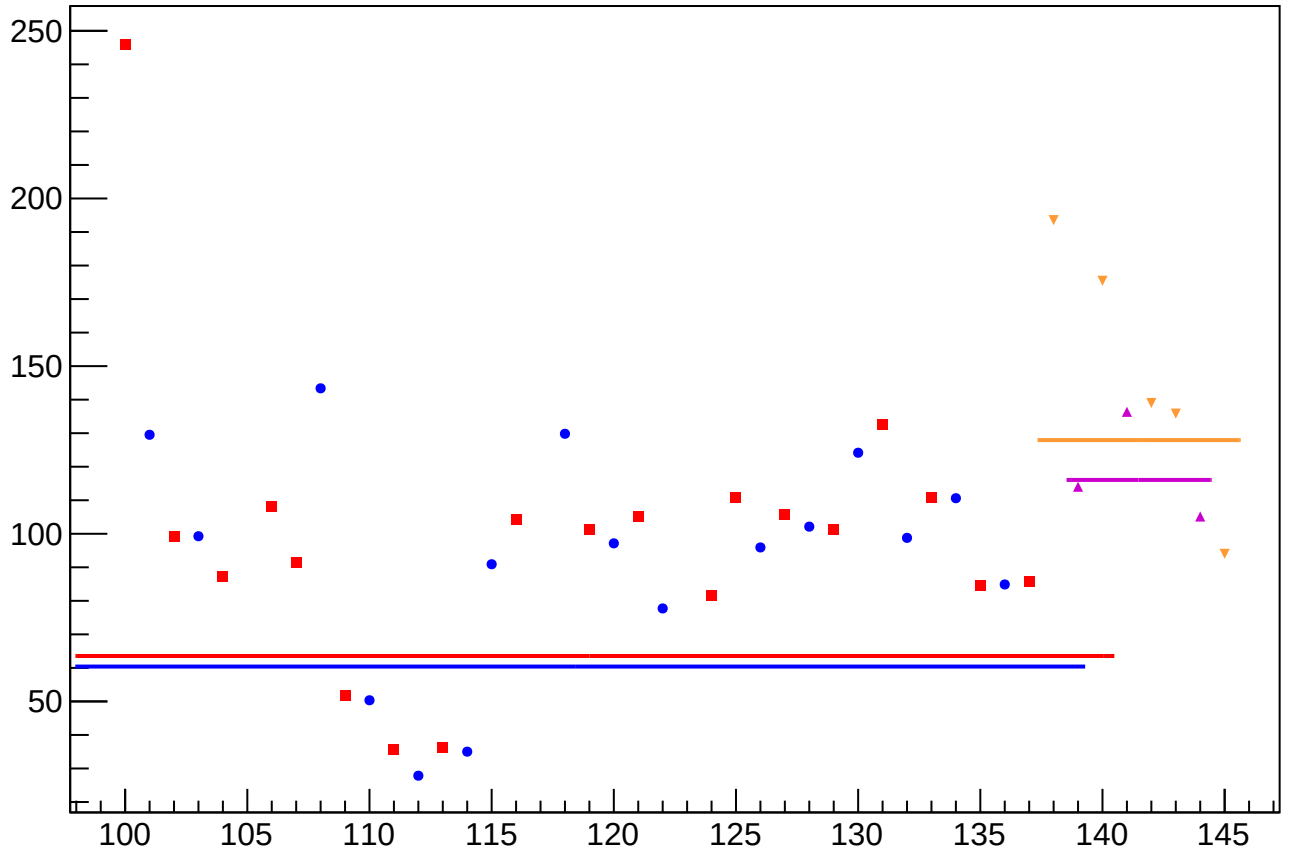
Left: -0.031+/-0.051 $\chi^2$/NDF: 9.6/7

Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.071+/-0.025 $\chi^2$/NDF:22.7/18

Out: -0.018+/-0.025 $\chi^2$/NDF:21.9/23

All: 0.026+/-0.018 $\chi^2$/NDF: 50.8/42




Right In: 60.401+/-0.019 $\chi^2$/NDF: 3538126.0/15

Left Out: 127.943+/-0.050 $\chi^2$/NDF:487666.7/4

Right Out: 63.553+/-0.019 $\chi^2$/NDF: 2654516.9/18

Left In: 116.060+/-0.052 $\chi^2$/NDF:56204.0/2

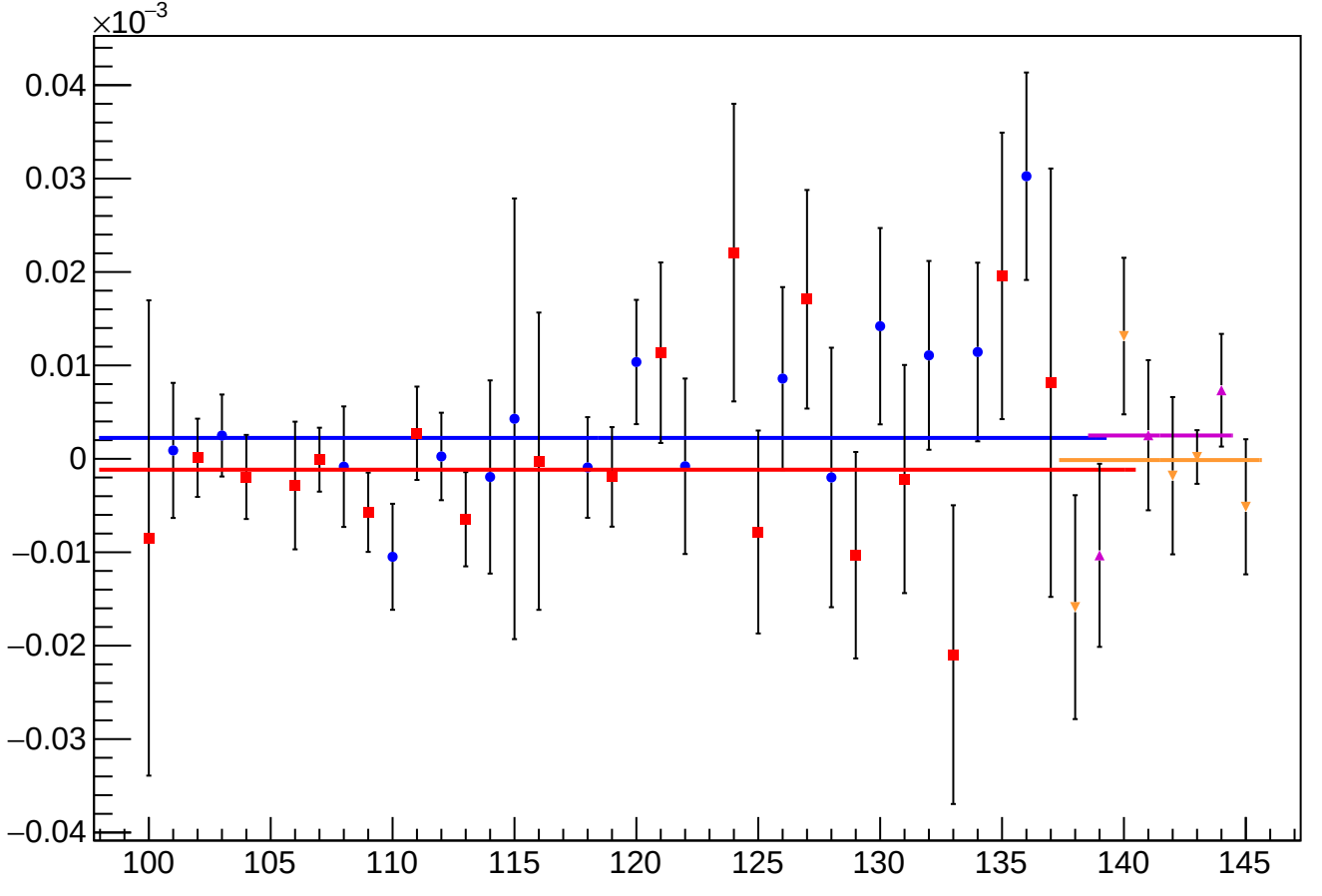
Left: 122.269+/-0.036 $\chi^2$/NDF: 570643.2/7

Right: 61.987+/-0.013 $\chi^2$/NDF: 6206346.3/34

In: 66.909+/-0.018 $\chi^2$/NDF:4587186.9/18

Out: 71.604+/-0.018 $\chi^2$/NDF:4582580.8/23

All: 69.283+/-0.013 $\chi^2$/NDF: 9204376.3/42




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

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.8/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.4/2

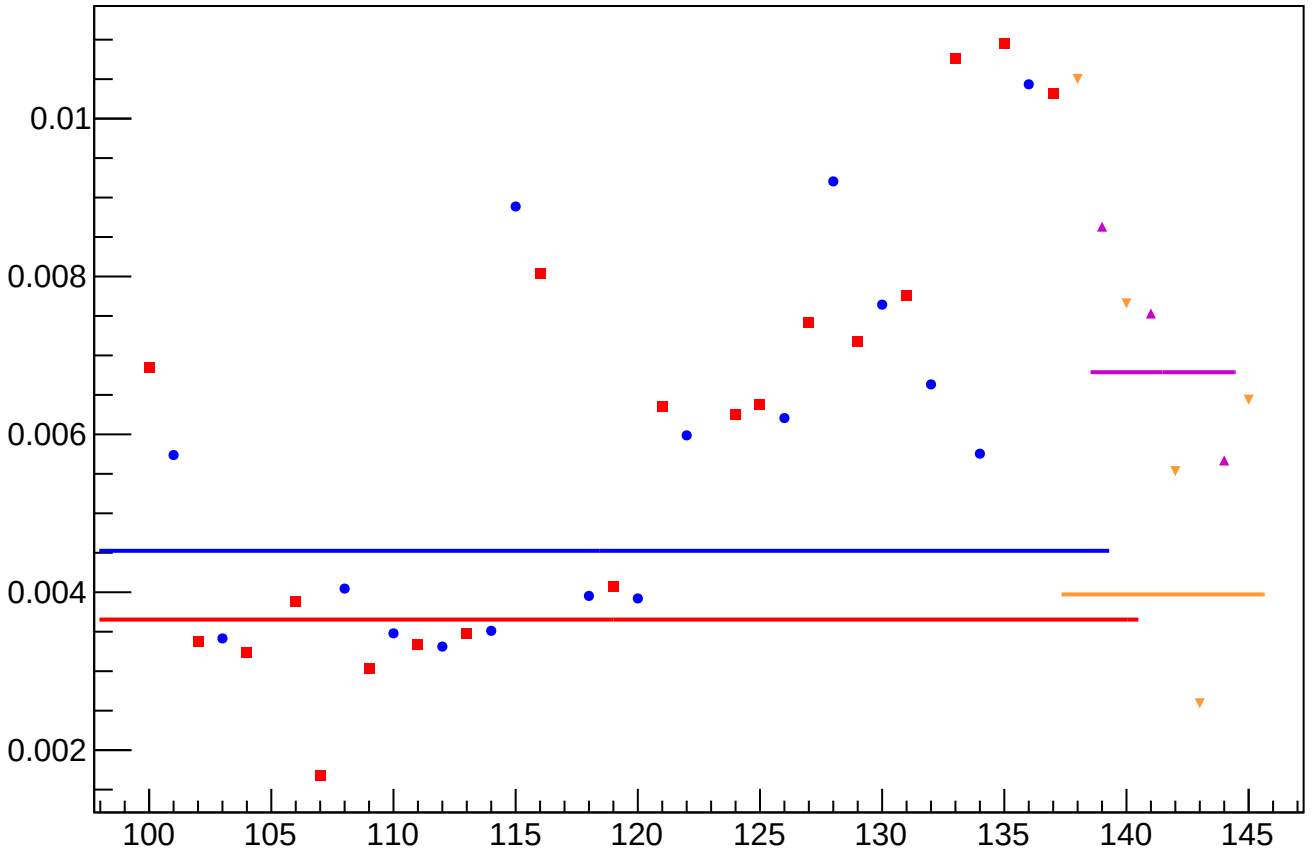
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.8/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 41.1/42




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1721333.3/15

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1743836.7/4

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 2933246.9/18

Left In: 0.007+/-0.000 $\chi^2$/NDF:156655.3/2

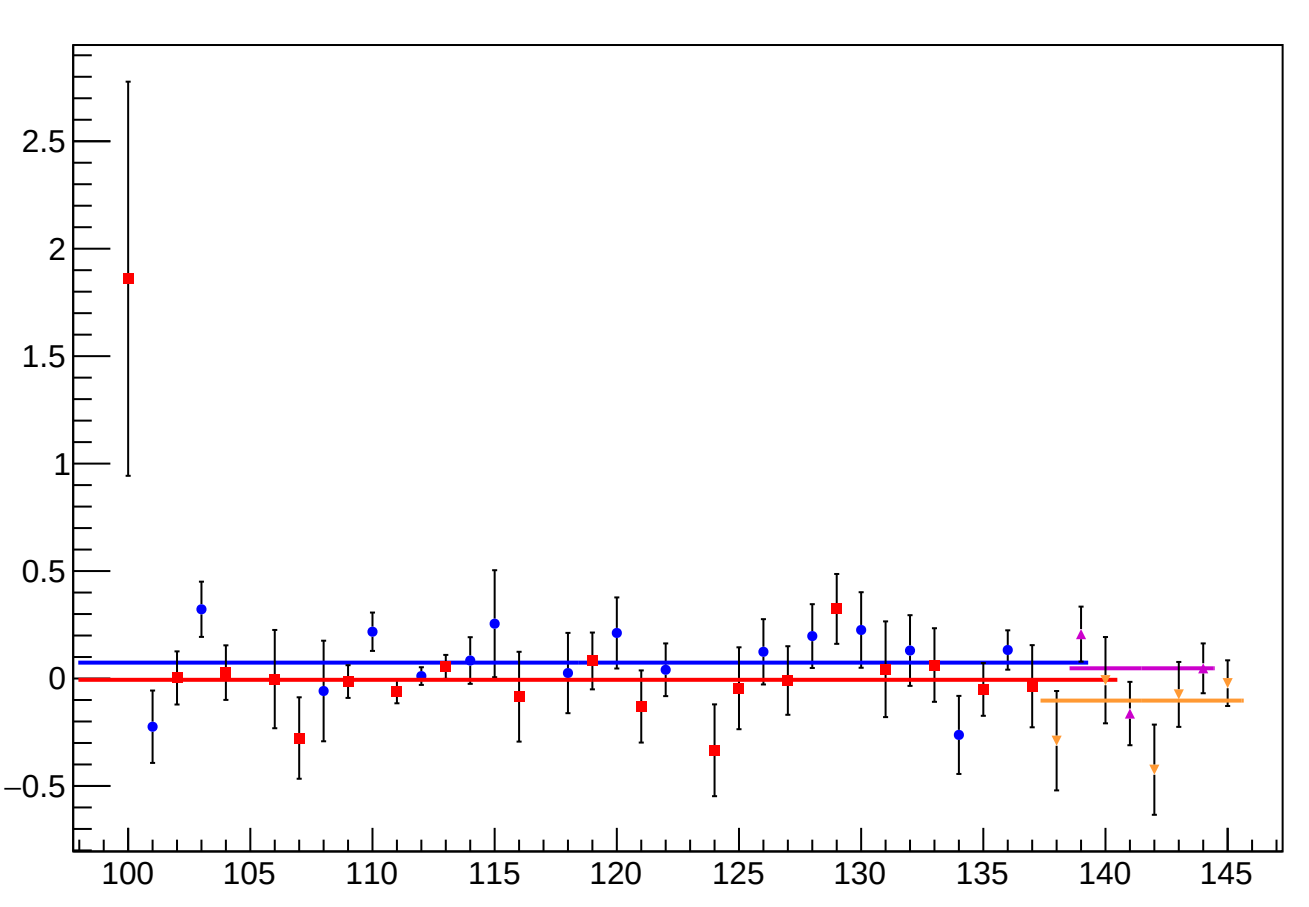
Left: 0.005+/-0.000 $\chi^2$/NDF: 2549320.4/7

Right: 0.004+/-0.000 $\chi^2$/NDF: 4928784.4/34

In: 0.005+/-0.000 $\chi^2$/NDF:2343088.2/18

Out: 0.004+/-0.000 $\chi^2$/NDF:4702619.6/23

All: 0.004+/-0.000 $\chi^2$/NDF: 7613050.3/42




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.103+/-0.071 $\chi^2$/NDF:3.8/4

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.048+/-0.074 $\chi^2$/NDF:3.6/2

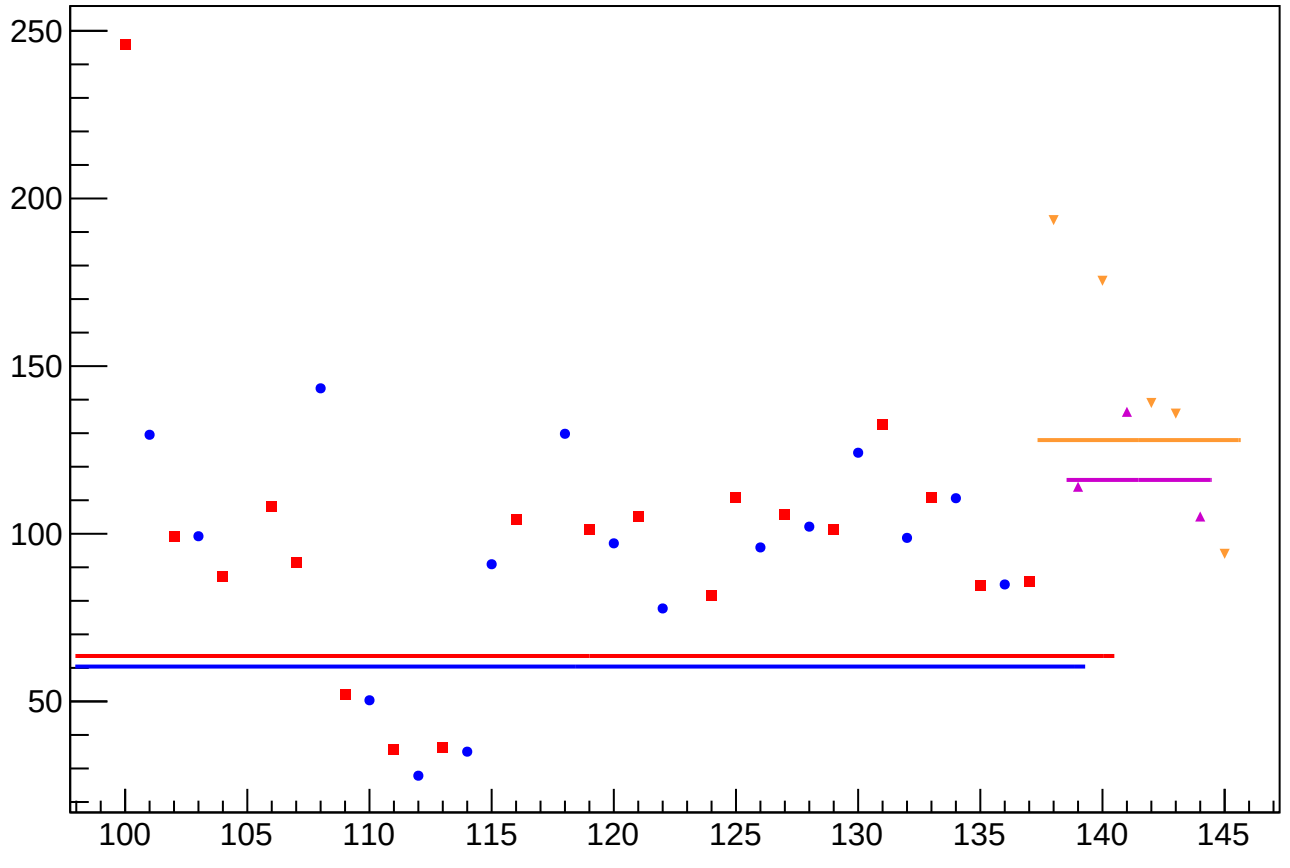
Left: -0.031+/-0.051 $\chi^2$/NDF: 9.6/7

Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.071+/-0.025 $\chi^2$/NDF:22.7/18

Out: -0.018+/-0.025 $\chi^2$/NDF:21.9/23

All: 0.026+/-0.018 $\chi^2$/NDF: 50.8/42




Right In: 60.399+/-0.019 $\chi^2$/NDF: 3538382.9/15

Left Out: 127.945+/-0.050 $\chi^2$/NDF:487636.5/4

Right Out: 63.551+/-0.019 $\chi^2$/NDF: 2654786.8/18

Left In: 116.061+/-0.052 $\chi^2$/NDF:56202.9/2

Left: 122.270+/-0.036 $\chi^2$/NDF: 570616.9/7

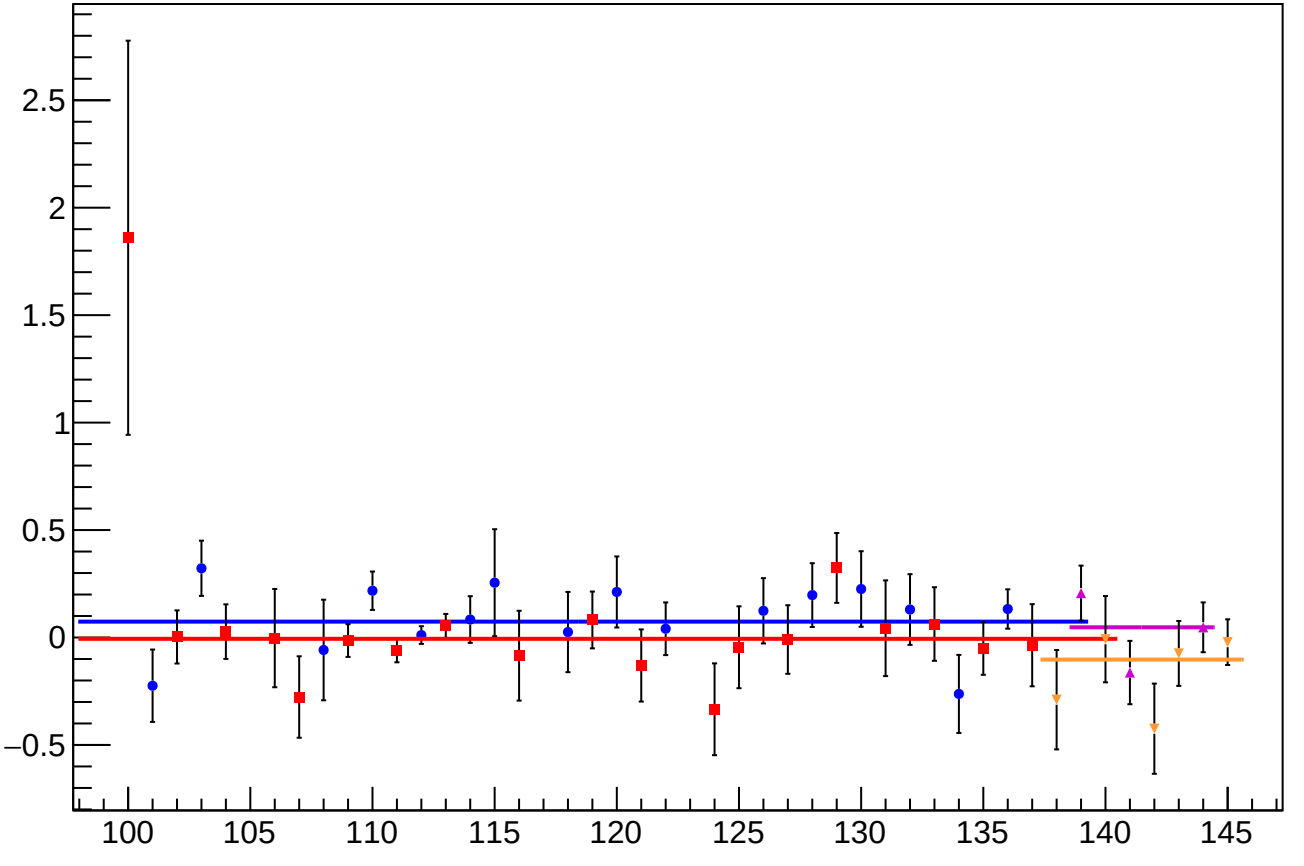
Right: 61.985+/-0.013 $\chi^2$/NDF: 6206876.3/34

In: 66.907+/-0.018 $\chi^2$/NDF:4587535.5/18

Out: 71.603+/-0.018 $\chi^2$/NDF:4582956.6/23

All: 69.281+/-0.013 $\chi^2$/NDF: 9205106.4/42

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.074+/-0.027 $\chi^2$/NDF: 19.0/15

Left Out: -0.103+/-0.071 $\chi^2$/NDF:3.8/4

Right Out: -0.006+/-0.027 $\chi^2$/NDF: 16.4/18

Left In: 0.048+/-0.074 $\chi^2$/NDF:3.6/2

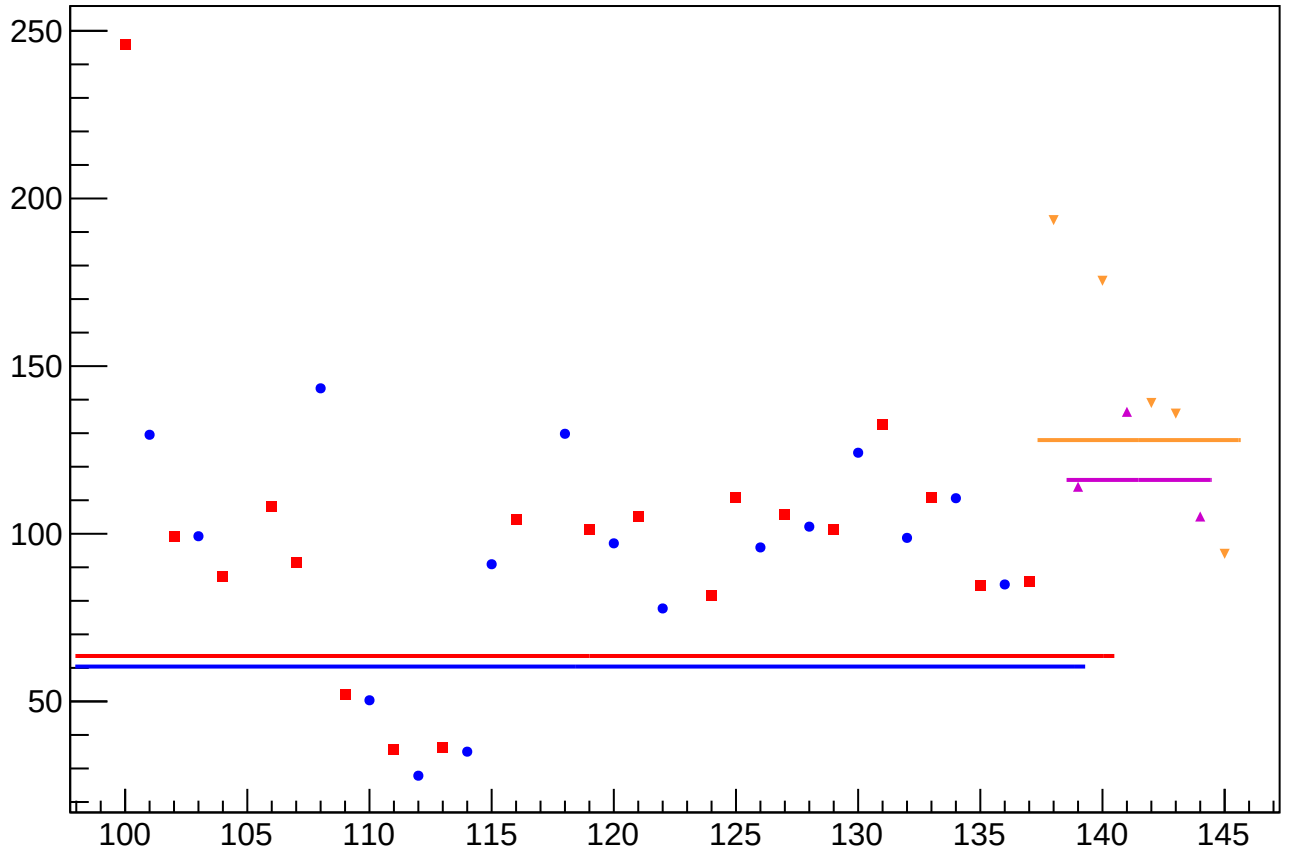
Left: -0.031+/-0.051 $\chi^2$/NDF: 9.6/7

Right: 0.034+/-0.019 $\chi^2$/NDF: 39.8/34

In: 0.071+/-0.025 $\chi^2$/NDF:22.7/18

Out: -0.018+/-0.025 $\chi^2$/NDF:21.9/23

All: 0.026+/-0.018 $\chi^2$/NDF: 50.8/42




Right In: 60.399+/-0.019 $\chi^2$/NDF: 3538382.9/15

Left Out: 127.945+/-0.050 $\chi^2$/NDF:487636.5/4

Right Out: 63.551+/-0.019 $\chi^2$/NDF: 2654786.8/18

Left In: 116.061+/-0.052 $\chi^2$/NDF:56202.9/2

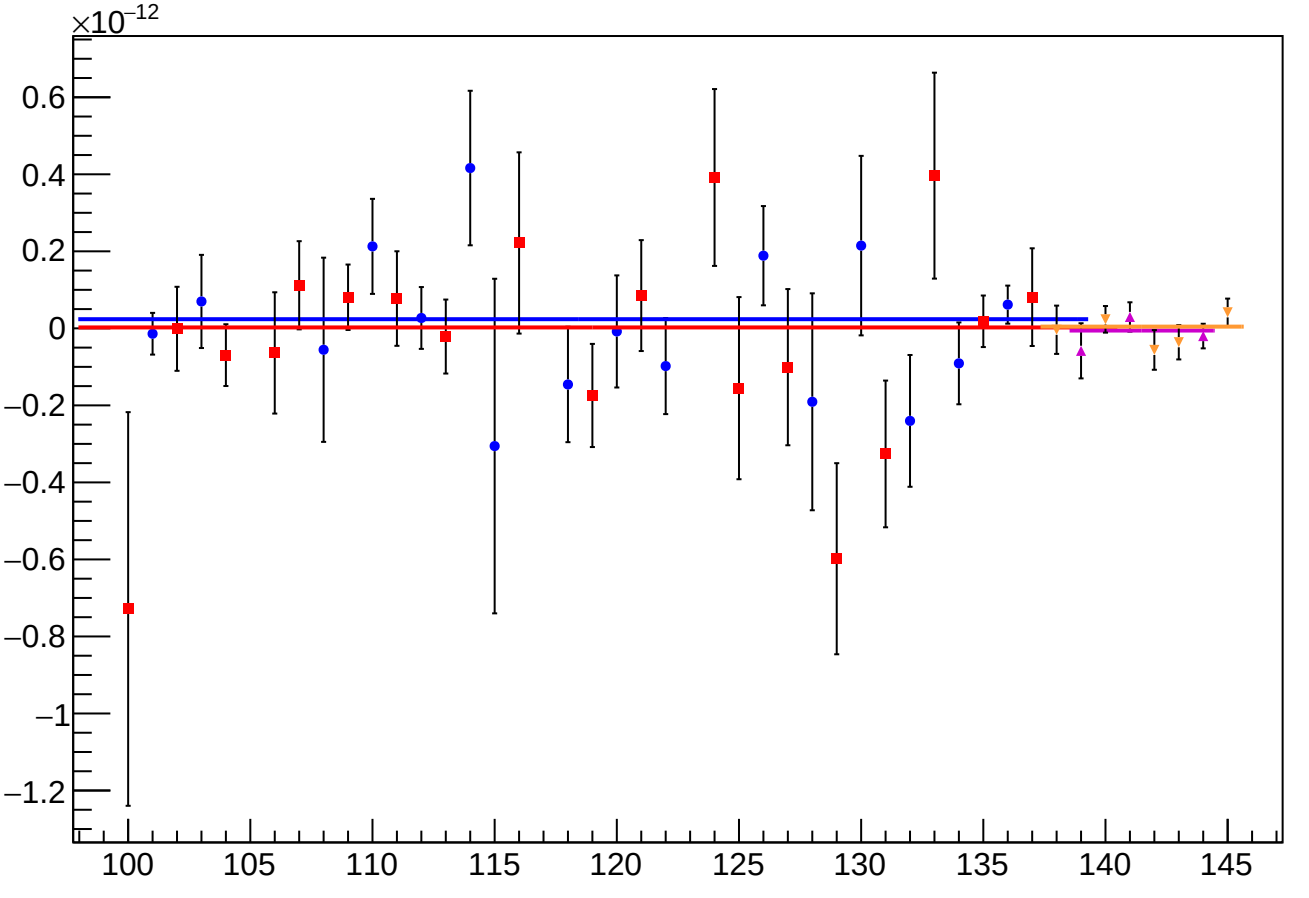
Left: 122.270+/-0.036 $\chi^2$/NDF: 570616.9/7

Right: 61.985+/-0.013 $\chi^2$/NDF: 6206876.3/34

In: 66.907+/-0.018 $\chi^2$/NDF:4587535.5/18

Out: 71.603+/-0.018 $\chi^2$/NDF:4582956.6/23

All: 69.281+/-0.013 $\chi^2$/NDF: 9205106.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.6/2

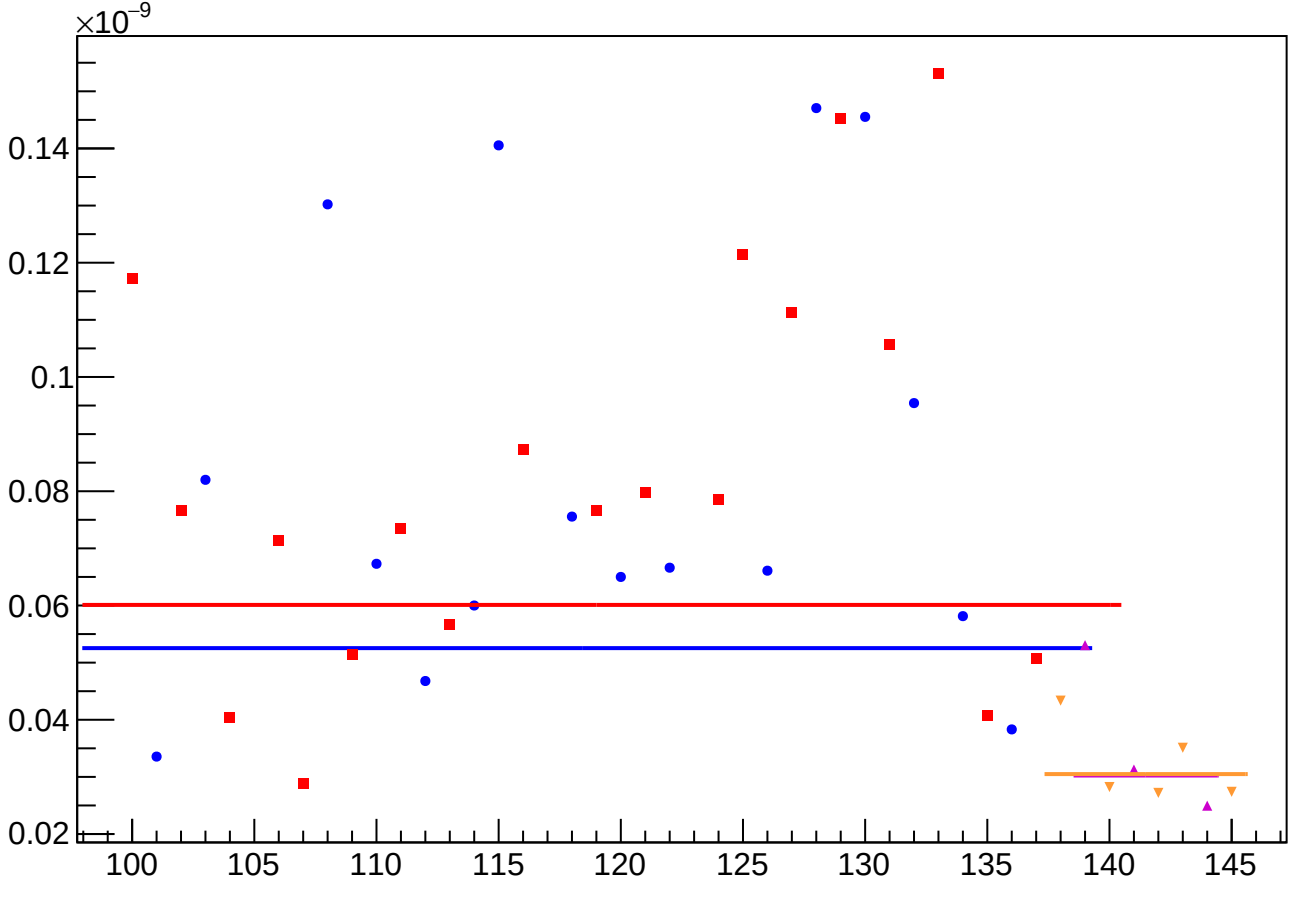
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:26.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 45.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1649207.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:137318.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1539049.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:259343.6/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 396802.4/7

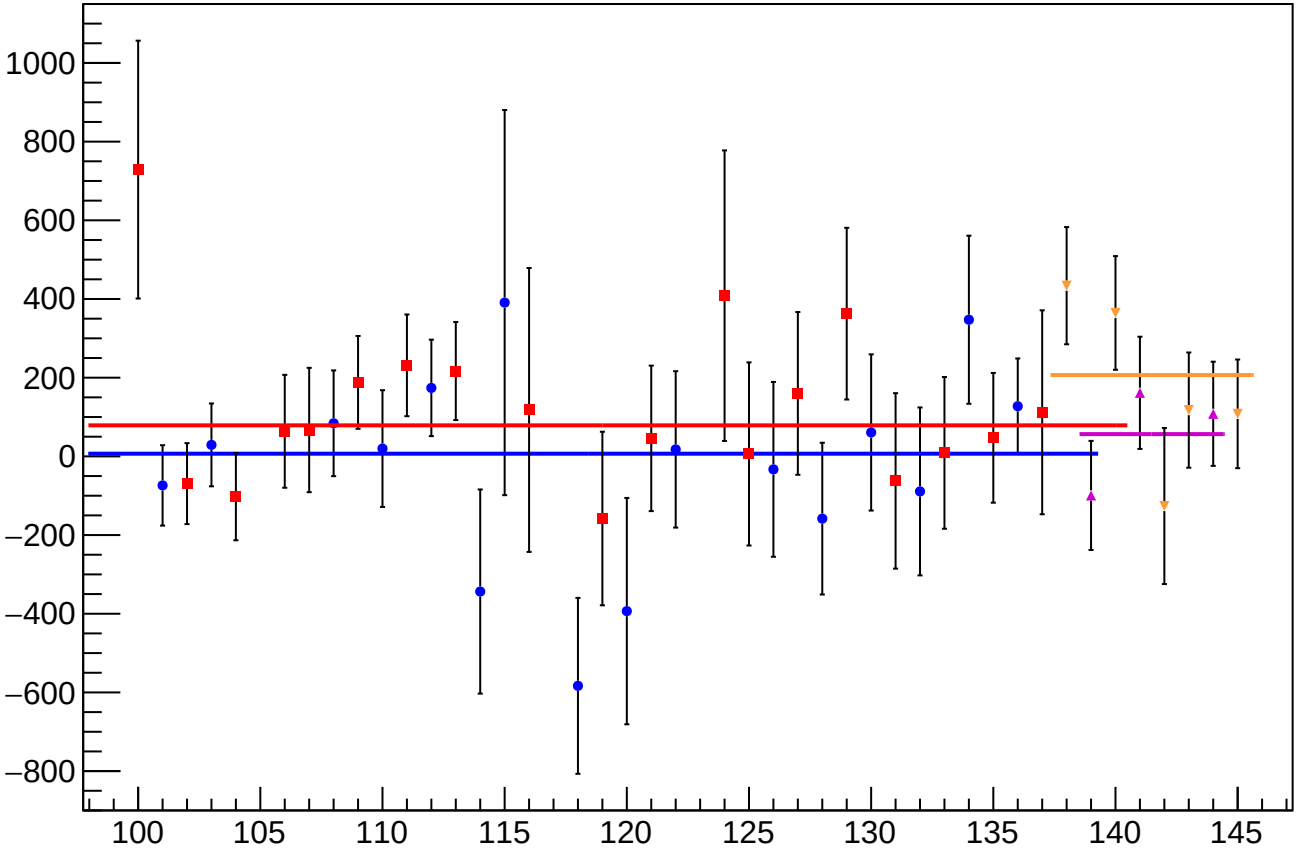
Right: 0.000+/-0.000 $\chi^2$/NDF: 3263531.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:2722396.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3142645.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5866129.7/42

# reg_asym_sam5_mean vs Slug, Sign Corrected




Right In: 6.811+/-40.353 $\chi^2$/NDF: 18.8/15

Left Out: 206.709+/-67.816 $\chi^2$/NDF:7.2/4

Right Out: 78.883+/-37.906 $\chi^2$/NDF: 16.7/18

Left In: 56.575+/-79.488 $\chi^2$/NDF:2.0/2

Left: 143.464+/-51.591 $\chi^2$/NDF: 11.2/7

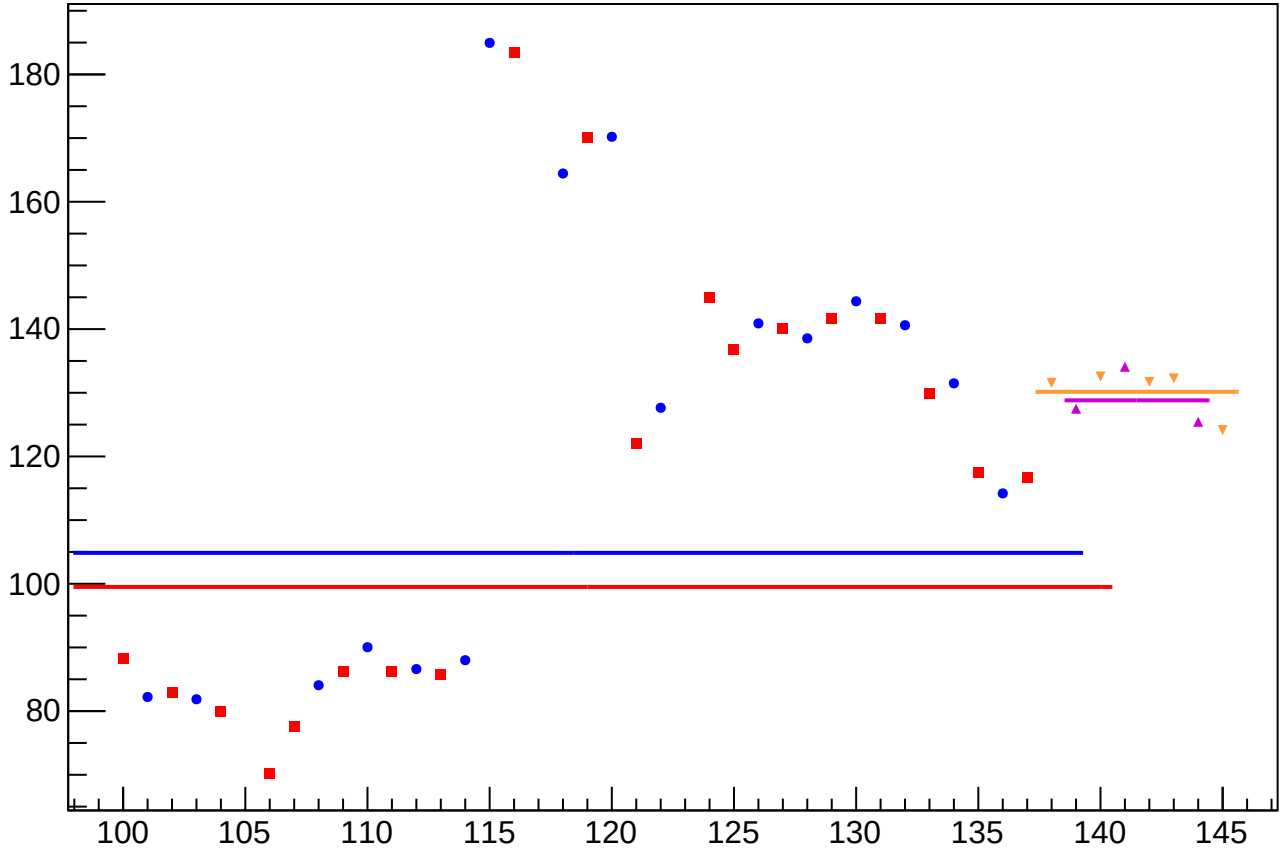
Right: 45.098+/-27.628 $\chi^2$/NDF: 37.2/34

In: 17.008+/-35.982 $\chi^2$/NDF:21.1/18

Out: 109.312+/-33.088 $\chi^2$/NDF:26.6/23

All: 67.021+/-24.356 $\chi^2$/NDF: 51.2/42

# reg_asym_sam5_rms vs Slug, Sign Corrected




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931228.4/15

Left Out: 130.152+/-0.048 $\chi^2$/NDF:5074.5/4

Right Out: 99.508+/-0.027 $\chi^2$/NDF: 1039037.0/18

Left In: 128.810+/-0.056 $\chi^2$/NDF:4209.5/2

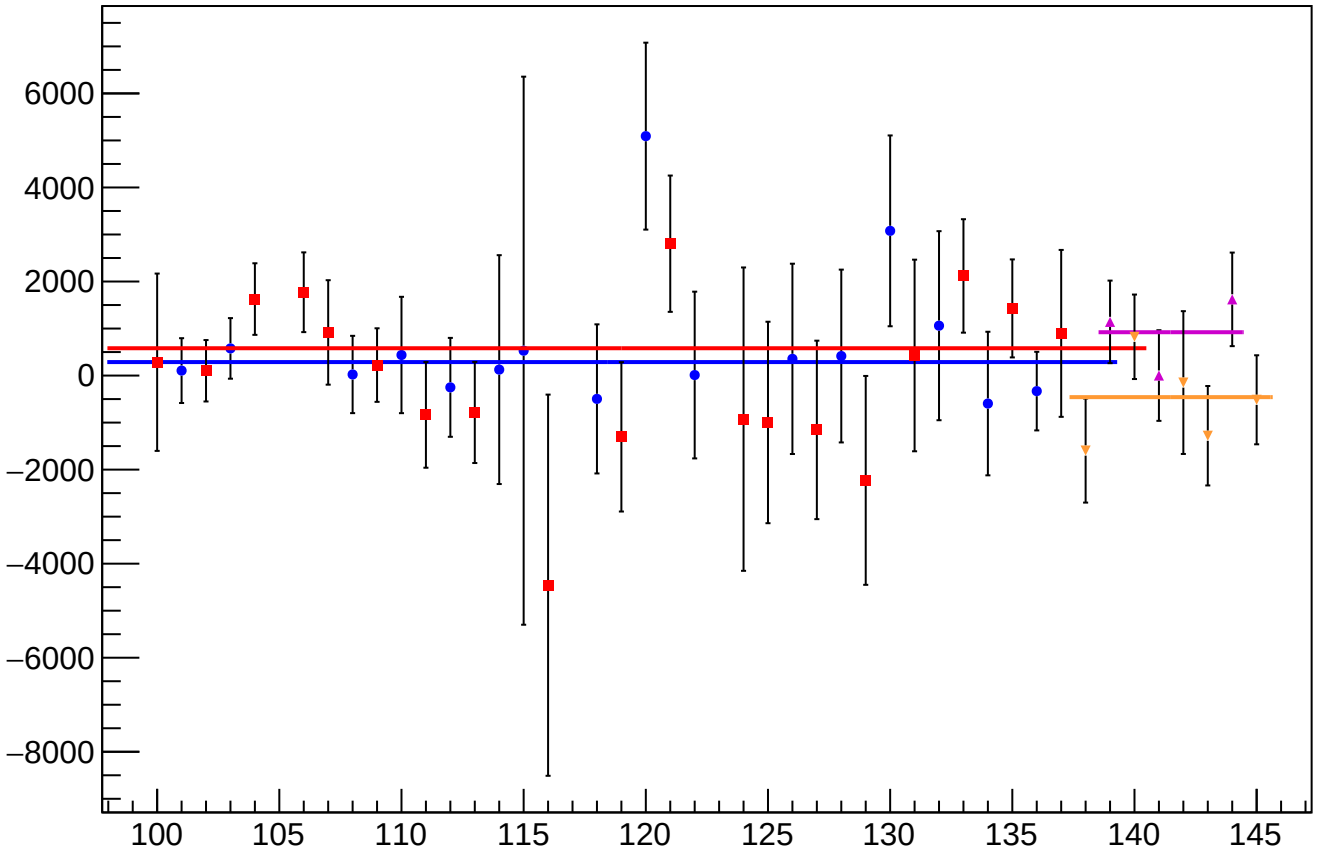
Left: 129.587+/-0.036 $\chi^2$/NDF: 9614.0/7

Right: 102.017+/-0.020 $\chi^2$/NDF: 1988955.2/34

In: 109.767+/-0.025 $\chi^2$/NDF:1079801.6/18

Out: 106.803+/-0.023 $\chi^2$/NDF:1355278.3/23

All: 108.161+/-0.017 $\chi^2$/NDF: 2442436.3/42




Right In: 286.915+/-293.474 $\chi^2$/NDF: 9.7/15

Left Out: -458.650+/-471.421 $\chi^2$/NDF:3.7/4

Right Out: 581.217+/-269.775 $\chi^2$/NDF: 18.8/18

Left In: 921.892+/-543.531 $\chi^2$/NDF:1.5/2

Left: 134.030+/-356.131 $\chi^2$/NDF: 8.9/7

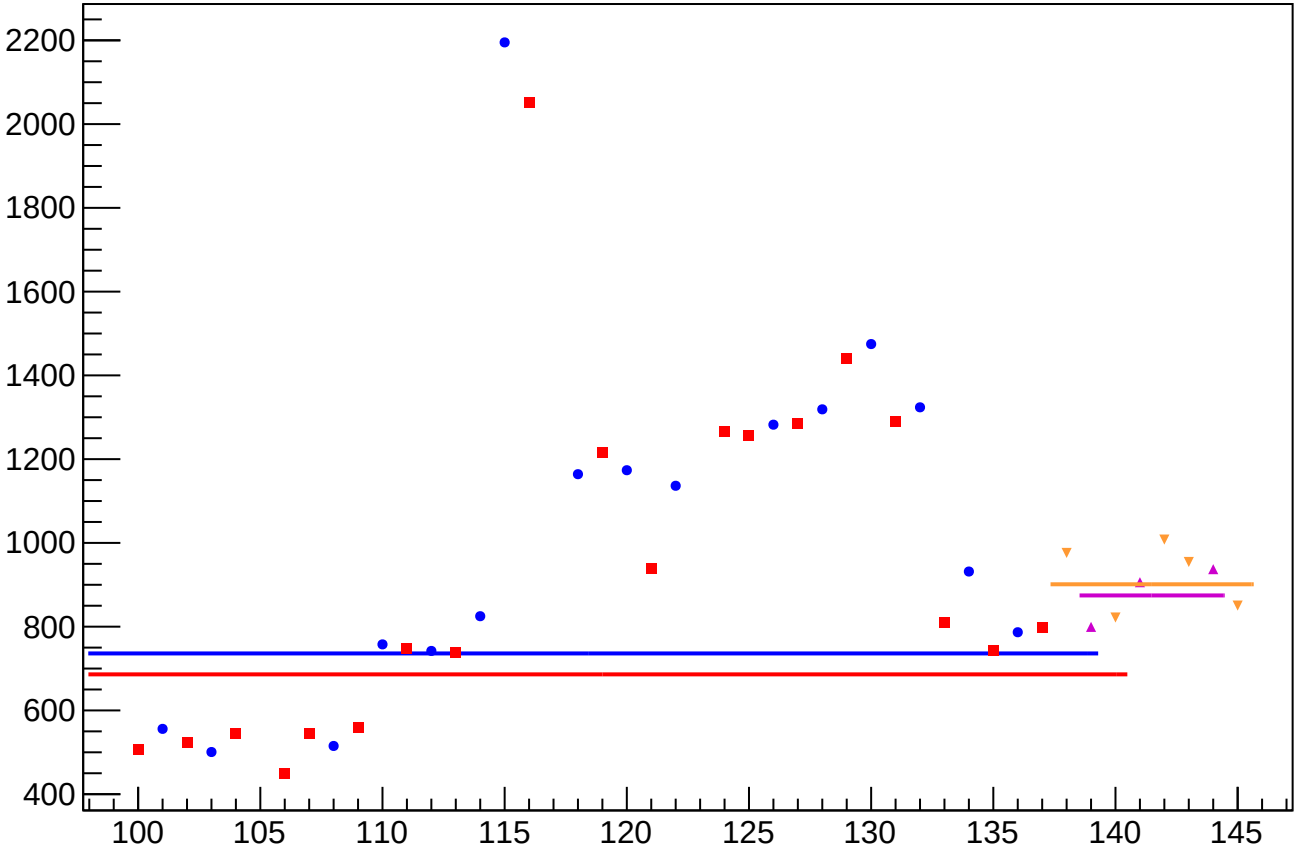
Right: 446.427+/-198.610 $\chi^2$/NDF: 29.0/34

In: 430.246+/-258.236 $\chi^2$/NDF:12.2/18

Out: 324.689+/-234.146 $\chi^2$/NDF:26.2/23

All: 372.316+/-173.459 $\chi^2$/NDF: 38.5/42

# asym_sam5_reg_correction_rms vs Slug, Sign Corrected




Right In: 736.084+/-0.208 $\chi^2$/NDF: 1844496.2/15

Left Out: 901.195+/-0.333 $\chi^2$/NDF:45491.6/4

Right Out: 686.108+/-0.191 $\chi^2$/NDF: 1819176.0/18

Left In: 874.569+/-0.384 $\chi^2$/NDF:24723.6/2

Left: 889.764+/-0.252 $\chi^2$/NDF: 72954.3/7

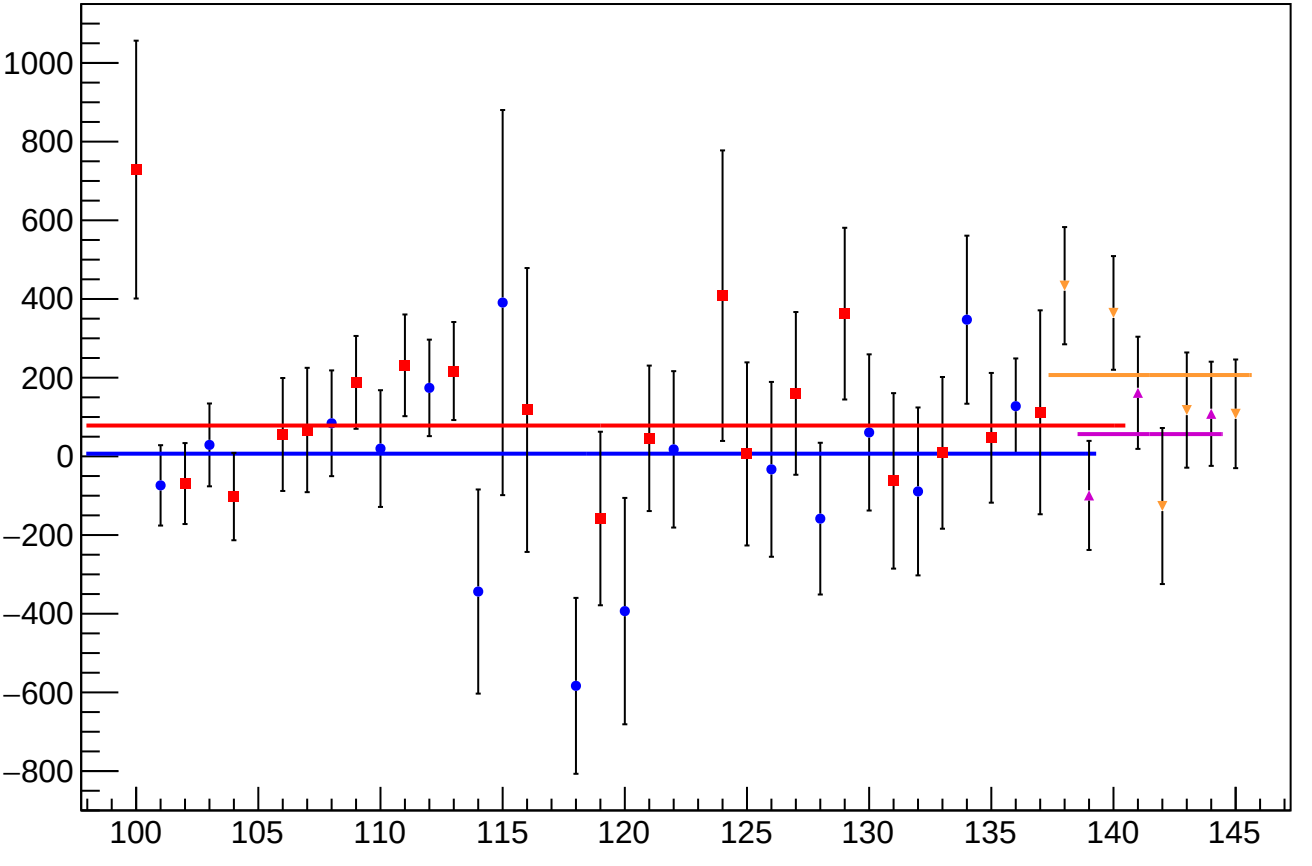
Right: 708.997+/-0.140 $\chi^2$/NDF: 3695106.9/34

In: 767.344+/-0.183 $\chi^2$/NDF:1969746.2/18

Out: 739.169+/-0.166 $\chi^2$/NDF:2178293.5/23

All: 751.881+/-0.123 $\chi^2$/NDF: 4161105.8/42

# cor_asym_sam5_mean vs Slug, Sign Corrected




Right In: 6.799+/-40.353 $\chi^2$/NDF: 18.8/15

Left Out: 206.716+/-67.816 $\chi^2$/NDF:7.2/4

Right Out: 78.347+/-37.909 $\chi^2$/NDF: 16.7/18

Left In: 56.578+/-79.488 $\chi^2$/NDF:2.0/2

Left: 143.470+/-51.591 $\chi^2$/NDF: 11.2/7

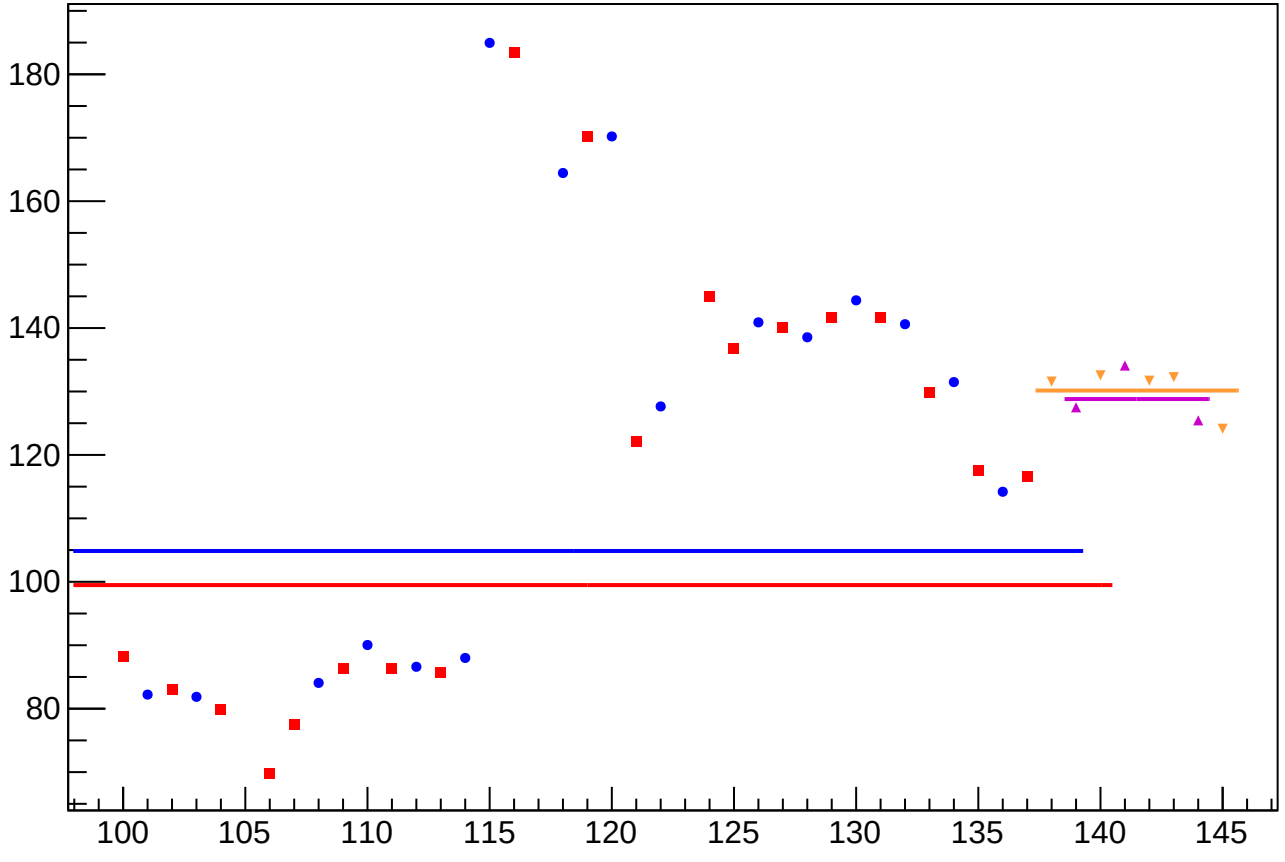
Right: 44.806+/-27.629 $\chi^2$/NDF: 37.1/34

In: 16.999+/-35.982 $\chi^2$/NDF:21.1/18

Out: 108.909+/-33.090 $\chi^2$/NDF:26.6/23

All: 66.796+/-24.356 $\chi^2$/NDF: 51.2/42

# cor_asym_sam5_rms vs Slug, Sign Corrected




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931227.7/15

Left Out: 130.152+/-0.048 $\chi^2$/NDF:5074.5/4

Right Out: 99.484+/-0.027 $\chi^2$/NDF: 1041224.0/18

Left In: 128.810+/-0.056 $\chi^2$/NDF:4209.5/2

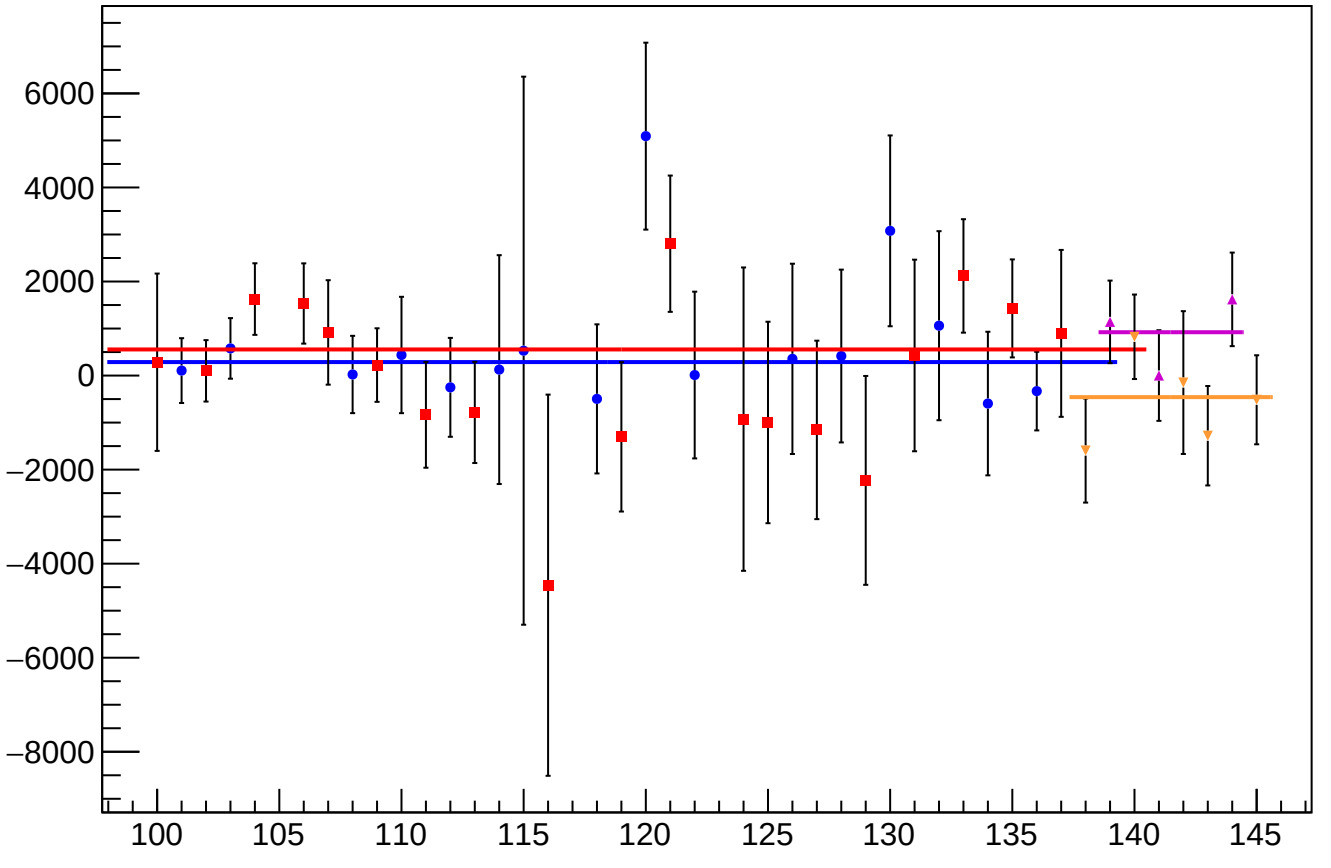
Left: 129.587+/-0.036 $\chi^2$/NDF: 9614.0/7

Right: 102.004+/-0.020 $\chi^2$/NDF: 1991307.5/34

In: 109.767+/-0.025 $\chi^2$/NDF:1079800.7/18

Out: 106.785+/-0.023 $\chi^2$/NDF:1357940.0/23

All: 108.152+/-0.017 $\chi^2$/NDF: 2445183.4/42




Right In: 286.918+/-293.473 $\chi^2$/NDF: 9.7/15

Left Out: -458.641+/-471.421 $\chi^2$/NDF:3.7/4

Right Out: 555.436+/-269.953 $\chi^2$/NDF: 18.0/18

Left In: 921.883+/-543.531 $\chi^2$/NDF:1.5/2

Left: 134.031+/-356.131 $\chi^2$/NDF: 8.9/7

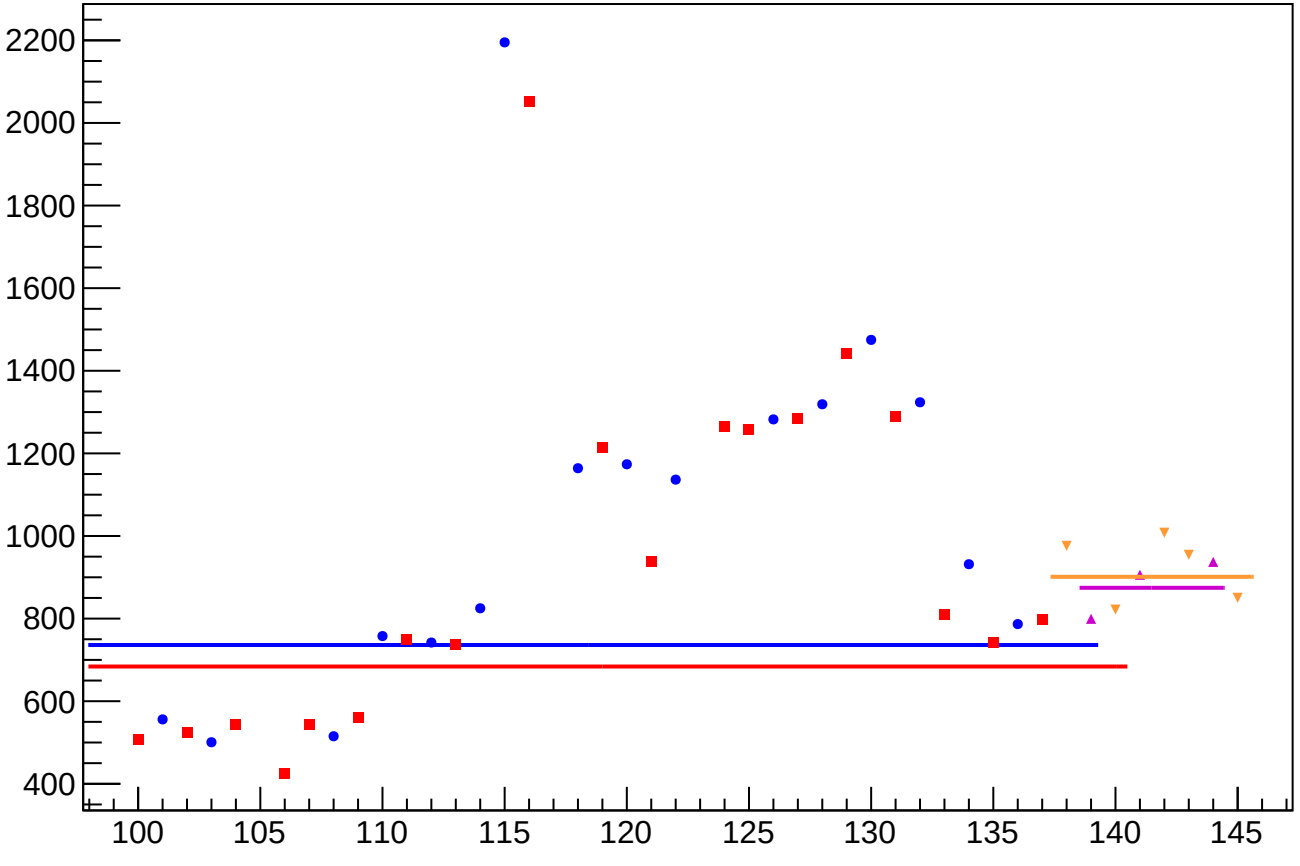
Right: 432.367+/-198.681 $\chi^2$/NDF: 28.2/34

In: 430.246+/-258.235 $\chi^2$/NDF:12.2/18

Out: 305.021+/-234.263 $\chi^2$/NDF:25.3/23

All: 361.553+/-173.507 $\chi^2$/NDF: 37.6/42

# asym_sam5_cor_correction_rms vs Slug, Sign Corrected




Right In: 736.083+/-0.208 $\chi^2$/NDF: 1844498.2/15

Left Out: 901.195+/-0.333 $\chi^2$/NDF:45491.8/4

Right Out: 683.981+/-0.191 $\chi^2$/NDF: 1850402.3/18

Left In: 874.569+/-0.384 $\chi^2$/NDF:24723.8/2

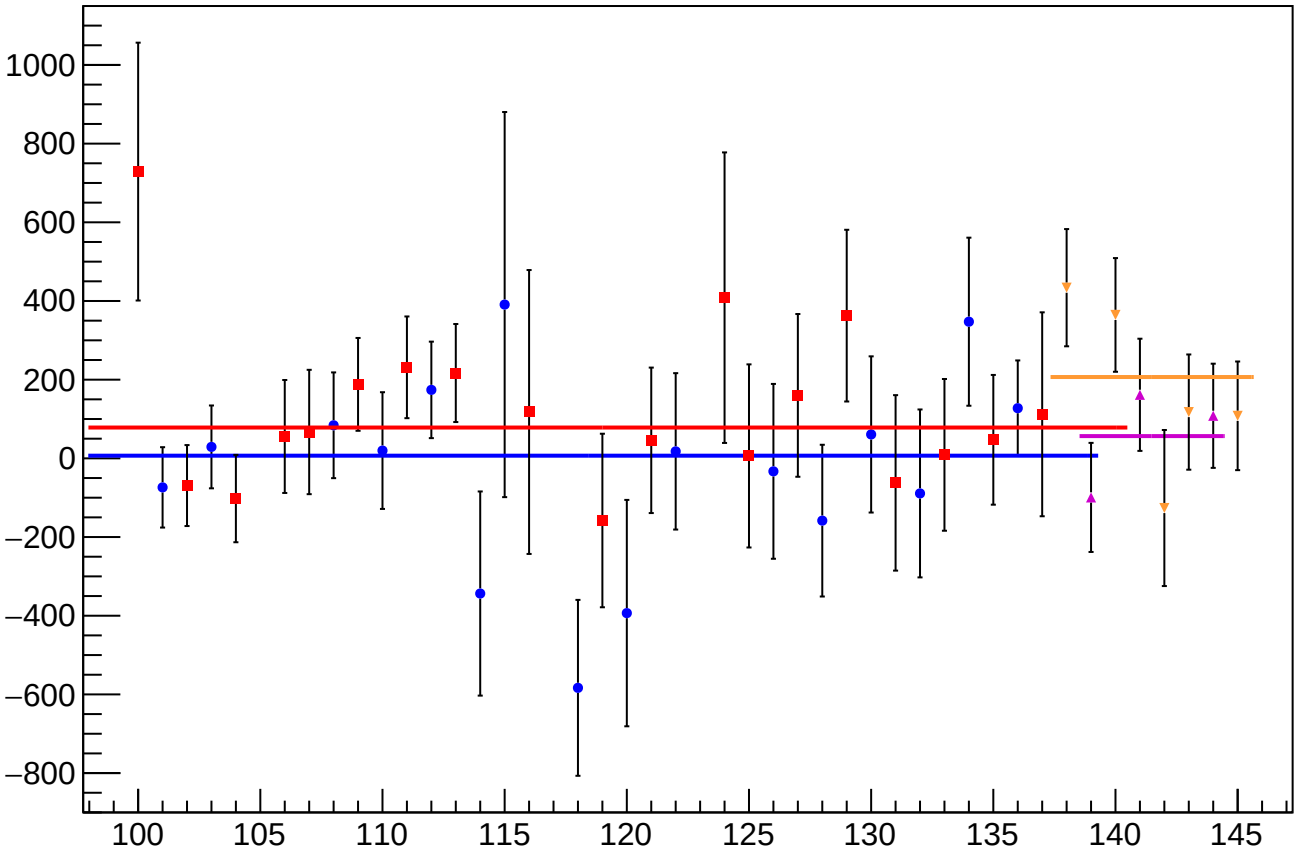
Left: 889.764+/-0.252 $\chi^2$/NDF: 72954.6/7

Right: 707.861+/-0.140 $\chi^2$/NDF: 3729047.2/34

In: 767.343+/-0.183 $\chi^2$/NDF:1969749.2/18

Out: 737.619+/-0.166 $\chi^2$/NDF:2215650.4/23

All: 751.038+/-0.123 $\chi^2$/NDF: 4199935.3/42




Right In: 6.799+/-40.353 $\chi^2$/NDF: 18.8/15

Left Out: 206.716+/-67.816 $\chi^2$/NDF:7.2/4

Right Out: 78.347+/-37.909 $\chi^2$/NDF: 16.7/18

Left In: 56.578+/-79.488 $\chi^2$/NDF:2.0/2

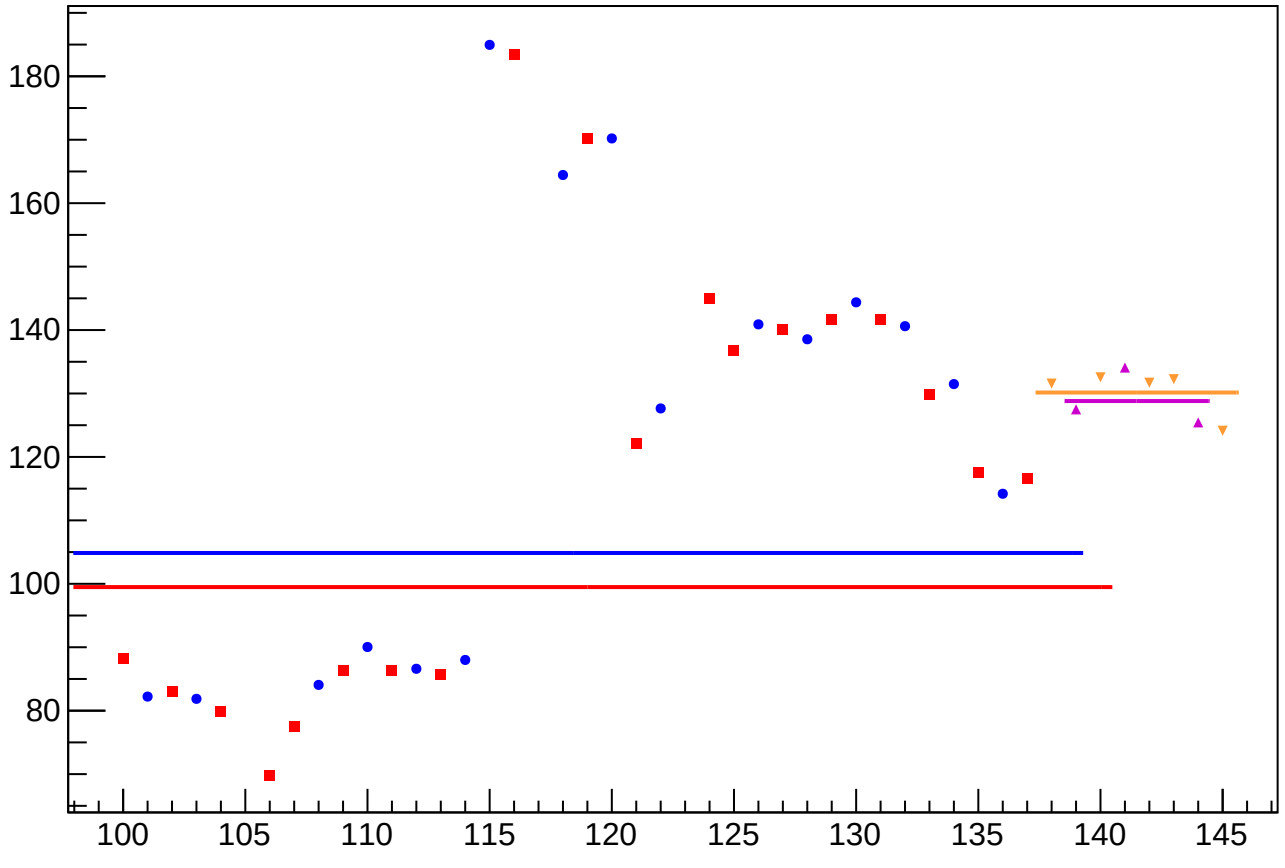
Left: 143.470+/-51.591 $\chi^2$/NDF: 11.2/7

Right: 44.806+/-27.629 $\chi^2$/NDF: 37.1/34

In: 16.999+/-35.982 $\chi^2$/NDF:21.1/18

Out: 108.909+/-33.090 $\chi^2$/NDF:26.6/23

All: 66.796+/-24.356 $\chi^2$/NDF: 51.2/42




Right In: 104.860+/-0.029 $\chi^2$/NDF: 931227.7/15

Left Out: 130.152+/-0.048 $\chi^2$/NDF:5074.5/4

Right Out: 99.484+/-0.027 $\chi^2$/NDF: 1041224.0/18

Left In: 128.810+/-0.056 $\chi^2$/NDF:4209.5/2

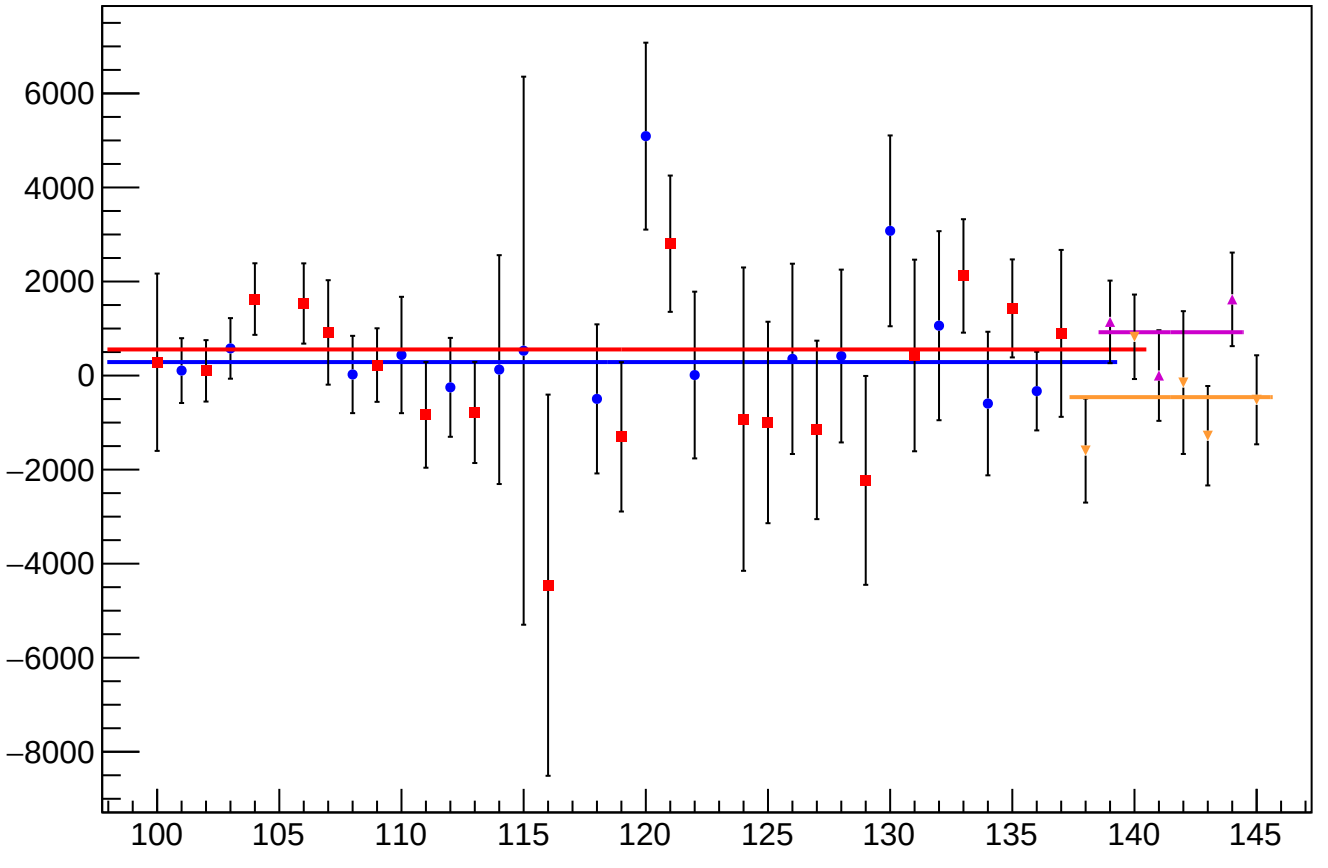
Left: 129.587+/-0.036 $\chi^2$/NDF: 9614.0/7

Right: 102.004+/-0.020 $\chi^2$/NDF: 1991307.5/34

In: 109.767+/-0.025 $\chi^2$/NDF:1079800.7/18

Out: 106.785+/-0.023 $\chi^2$/NDF:1357940.0/23

All: 108.152+/-0.017 $\chi^2$/NDF: 2445183.4/42




Right In: 286.918+/-293.473 $\chi^2$/NDF: 9.7/15

Left Out: -458.641+/-471.421 $\chi^2$/NDF:3.7/4

Right Out: 555.436+/-269.953 $\chi^2$/NDF: 18.0/18

Left In: 921.883+/-543.531 $\chi^2$/NDF:1.5/2

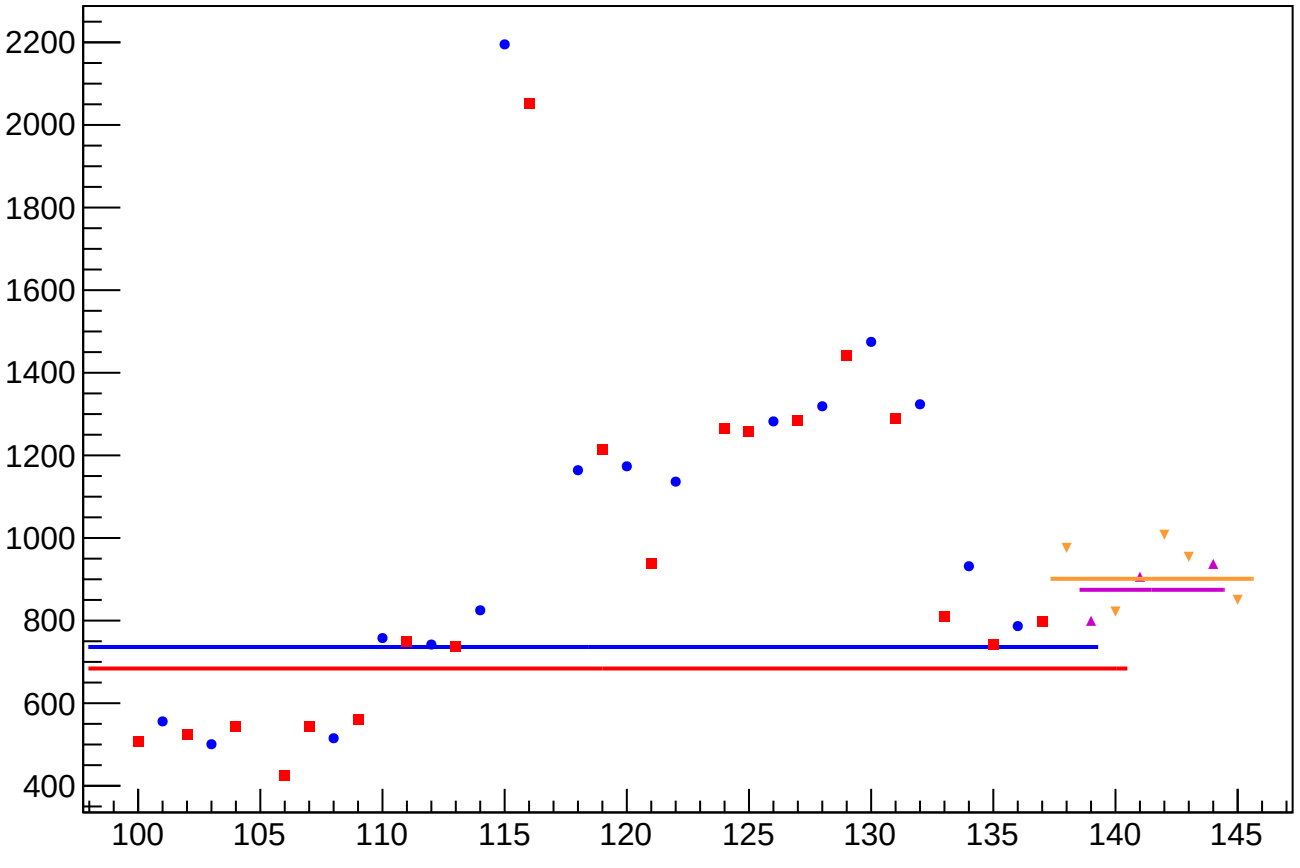
Left: 134.031+/-356.131 $\chi^2$/NDF: 8.9/7

Right: 432.367+/-198.681 $\chi^2$/NDF: 28.2/34

In: 430.246+/-258.235 $\chi^2$/NDF:12.2/18

Out: 305.021+/-234.263 $\chi^2$/NDF:25.3/23

All: 361.553+/-173.507 $\chi^2$/NDF: 37.6/42




Right In: 736.083+/-0.208 $\chi^2$/NDF: 1844498.2/15

Left Out: 901.195+/-0.333 $\chi^2$/NDF:45491.8/4

Right Out: 683.981+/-0.191 $\chi^2$/NDF: 1850402.3/18

Left In: 874.569+/-0.384 $\chi^2$/NDF:24723.8/2

Left: 889.764+/-0.252 $\chi^2$/NDF: 72954.6/7

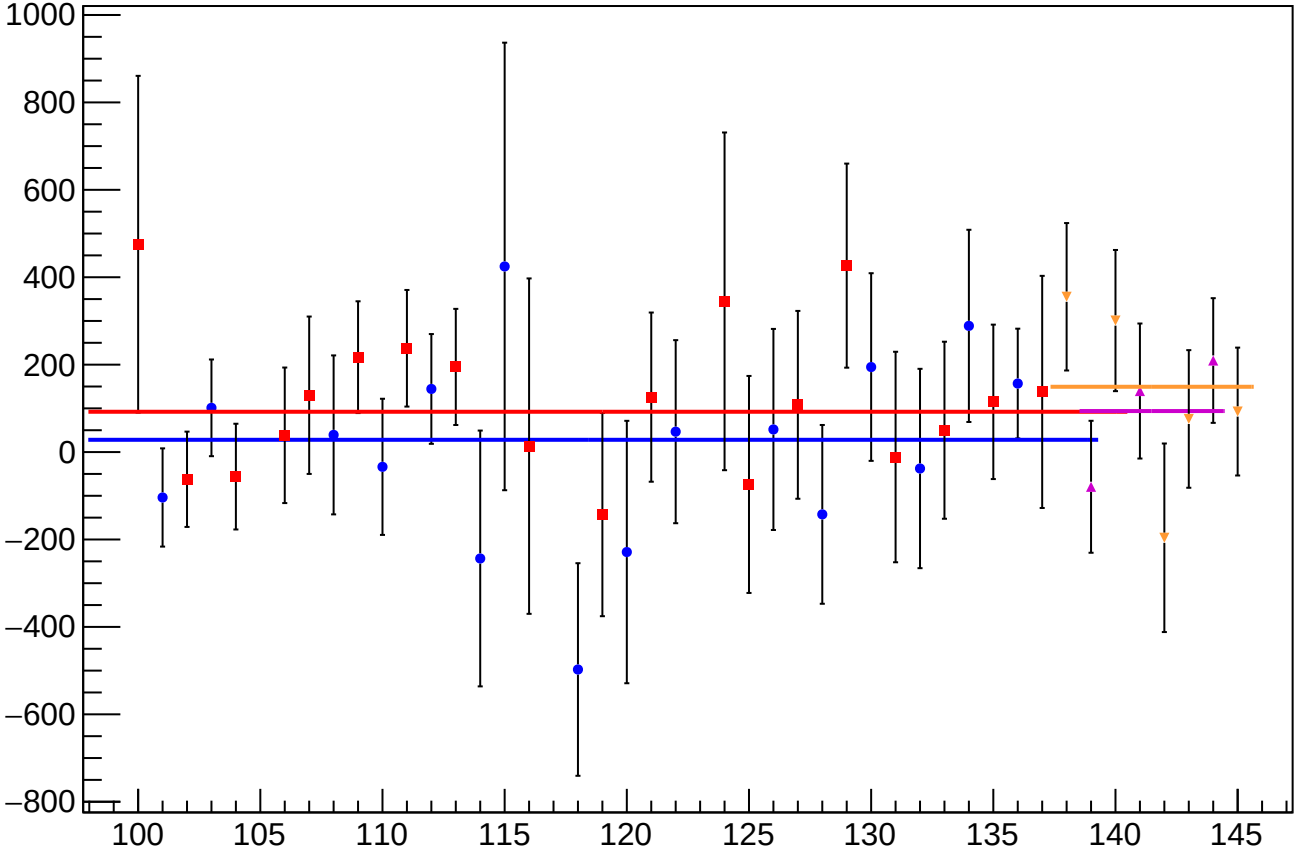
Right: 707.861+/-0.140 $\chi^2$/NDF: 3729047.2/34

In: 767.343+/-0.183 $\chi^2$/NDF:1969749.2/18

Out: 737.619+/-0.166 $\chi^2$/NDF:2215650.4/23

All: 751.038+/-0.123 $\chi^2$/NDF: 4199935.3/42

# dit_asym_sam5_mean vs Slug, Sign Corrected




Right In: 28.094+/-43.439 $\chi^2$/NDF: 13.6/15

Left Out: 149.413+/-74.111 $\chi^2$/NDF:5.3/4

Right Out: 92.247+/-40.539 $\chi^2$/NDF: 11.7/18

Left In: 93.848+/-86.081 $\chi^2$/NDF:2.1/2

Left: 125.759+/-56.164 $\chi^2$/NDF: 7.6/7

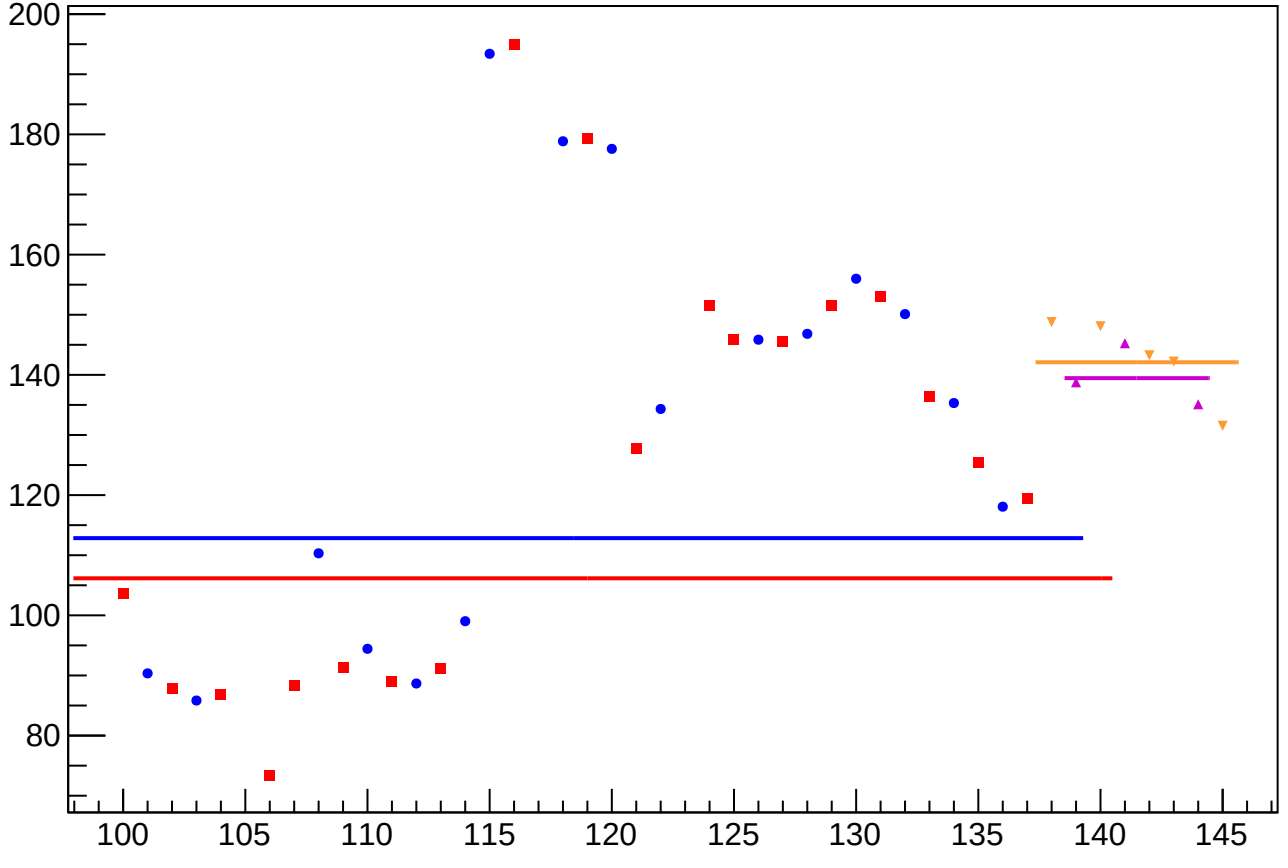
Right: 62.383+/-29.638 $\chi^2$/NDF: 26.4/34

In: 41.440+/-38.781 $\chi^2$/NDF:16.1/18

Out: 105.412+/-35.566 $\chi^2$/NDF:17.5/23

All: 76.187+/-26.212 $\chi^2$/NDF: 35.0/42

# dit_asym_sam5_rms vs Slug, Sign Corrected




Right In: 112.843+/-0.031 $\chi^2$/NDF: 872225.9/15

Left Out: 142.096+/-0.052 $\chi^2$/NDF:16377.5/4

Right Out: 106.159+/-0.029 $\chi^2$/NDF: 1002148.0/18

Left In: 139.455+/-0.061 $\chi^2$/NDF:4727.2/2

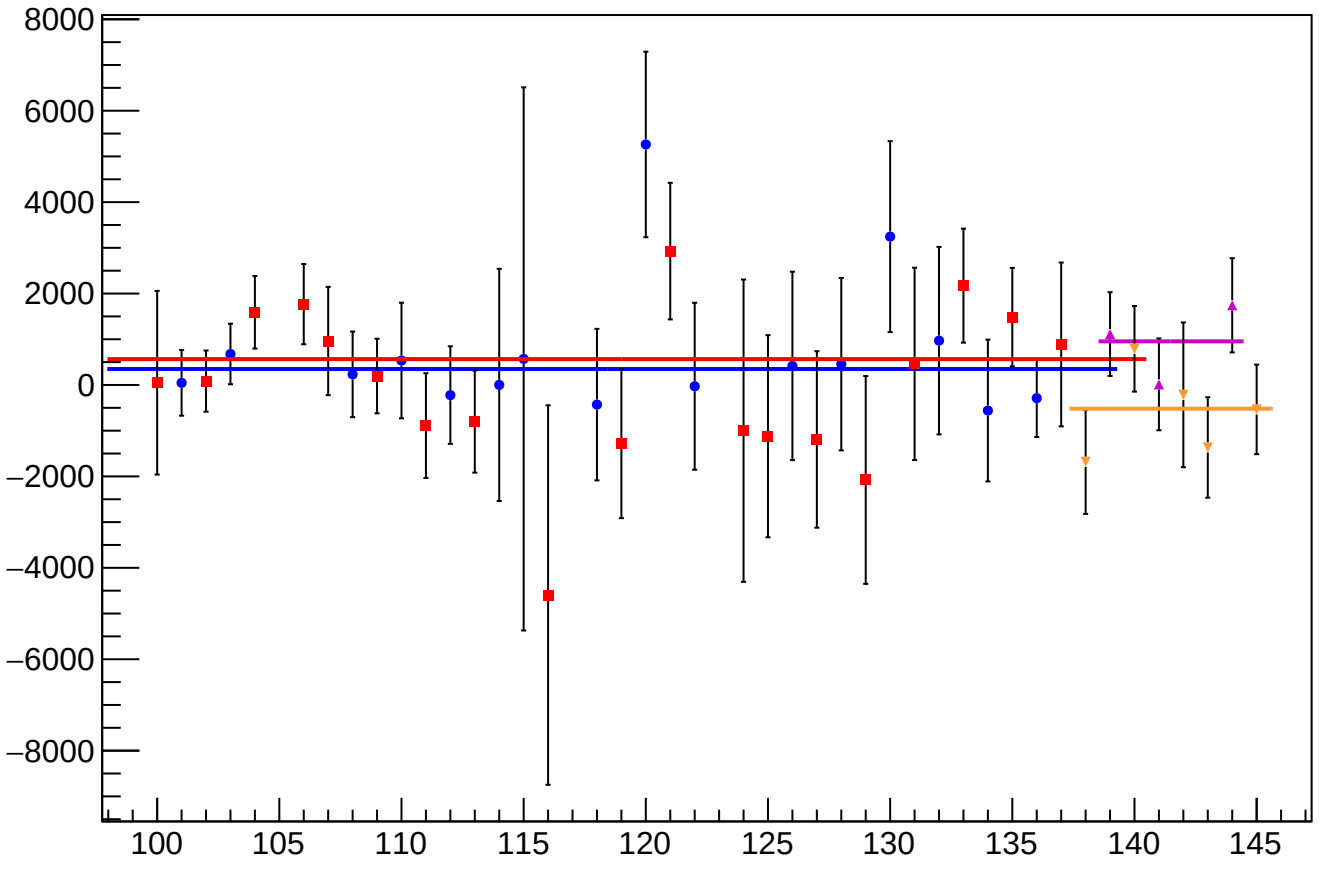
Left: 140.972+/-0.040 $\chi^2$/NDF: 22185.9/7

Right: 109.270+/-0.021 $\chi^2$/NDF: 1899683.8/34

In: 118.244+/-0.027 $\chi^2$/NDF:1029308.2/18

Out: 114.435+/-0.025 $\chi^2$/NDF:1380497.7/23

All: 116.175+/-0.019 $\chi^2$/NDF: 2420285.3/42




Right In: 349.112+/-305.328 $\chi^2$/NDF: 9.8/15

Left Out: -517.904+/-489.310 $\chi^2$/NDF:3.6/4

Right Out: 566.026+/-279.219 $\chi^2$/NDF: 18.3/18

Left In: 954.543+/-565.898 $\chi^2$/NDF:1.5/2

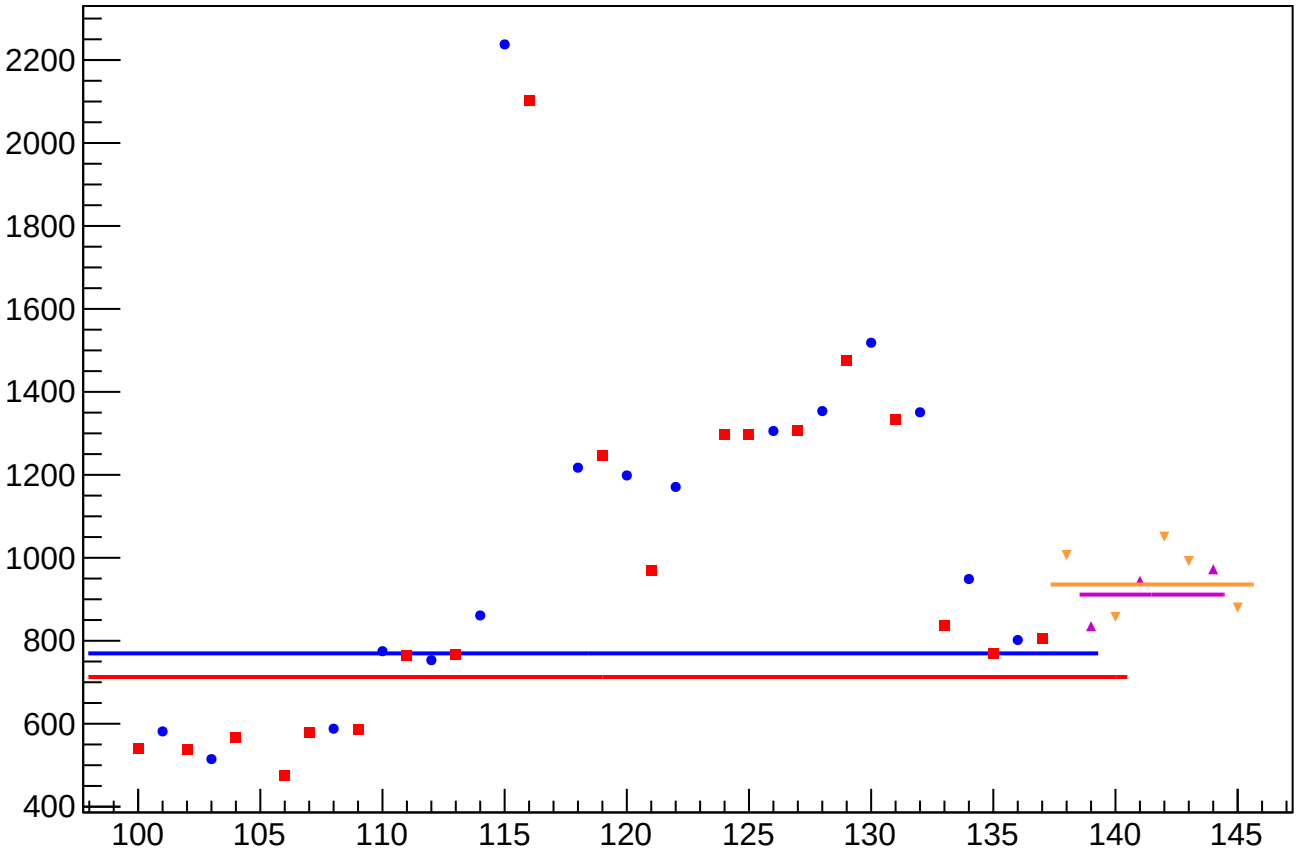
Left: 112.008+/-370.134 $\chi^2$/NDF: 9.0/7

Right: 467.239+/-206.051 $\chi^2$/NDF: 28.4/34

In: 485.620+/-268.711 $\chi^2$/NDF:12.2/18

Out: 299.770+/-242.512 $\chi^2$/NDF:25.6/23

All: 383.196+/-180.034 $\chi^2$/NDF: 38.1/42




Right In: 769.557+/-0.216 $\chi^2$/NDF: 1739937.3/15

Left Out: 935.704+/-0.346 $\chi^2$/NDF:44001.6/4

Right Out: 712.628+/-0.197 $\chi^2$/NDF: 1767226.6/18

Left In: 911.274+/-0.400 $\chi^2$/NDF:23028.7/2

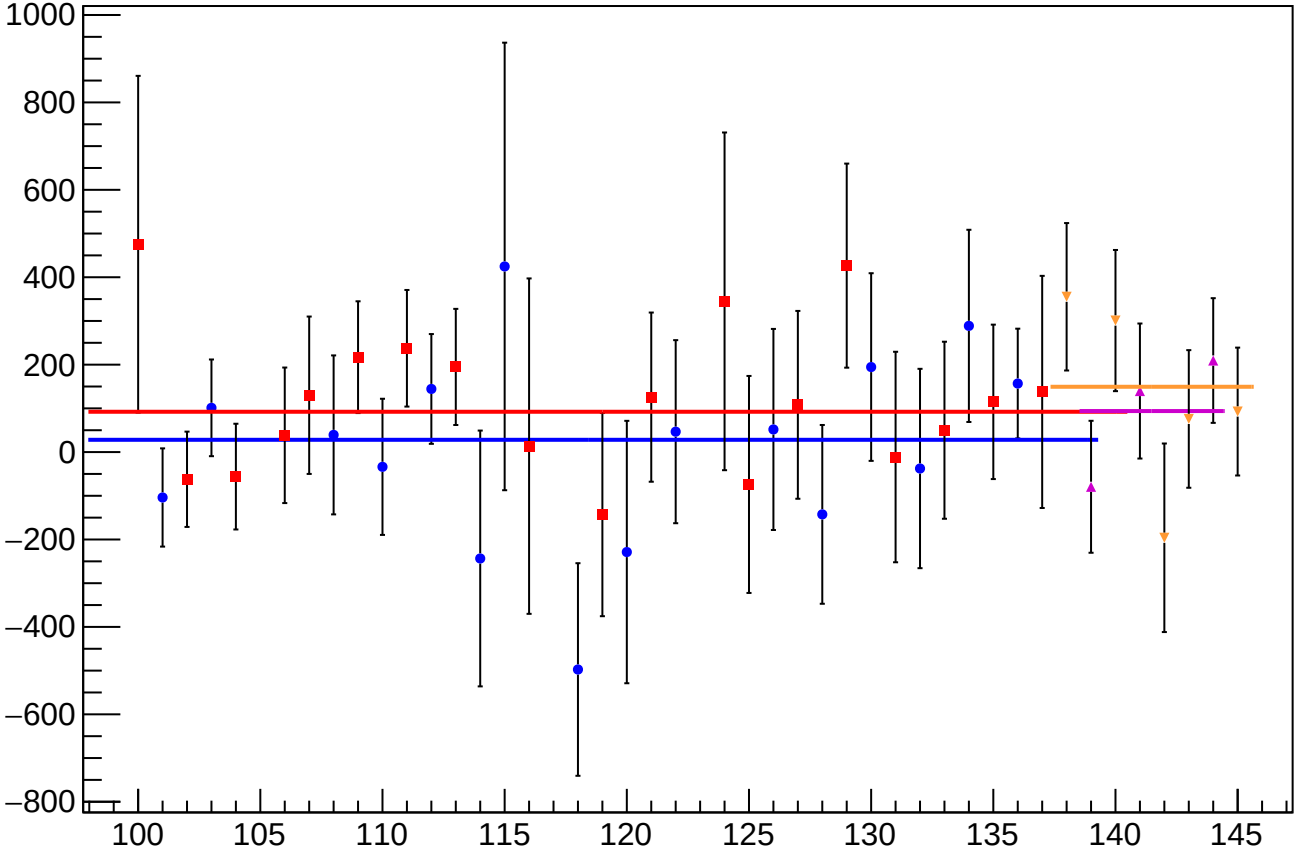
Left: 925.253+/-0.262 $\chi^2$/NDF: 69163.0/7

Right: 738.555+/-0.146 $\chi^2$/NDF: 3545027.5/34

In: 801.511+/-0.190 $\chi^2$/NDF:1860113.8/18

Out: 767.425+/-0.171 $\chi^2$/NDF:2124804.3/23

All: 782.725+/-0.127 $\chi^2$/NDF: 4002654.0/42




Right In: 28.093+/-43.439 $\chi^2$/NDF: 13.6/15

Left Out: 149.414+/-74.111 $\chi^2$/NDF:5.3/4

Right Out: 92.247+/-40.539 $\chi^2$/NDF: 11.7/18

Left In: 93.849+/-86.081 $\chi^2$/NDF:2.1/2

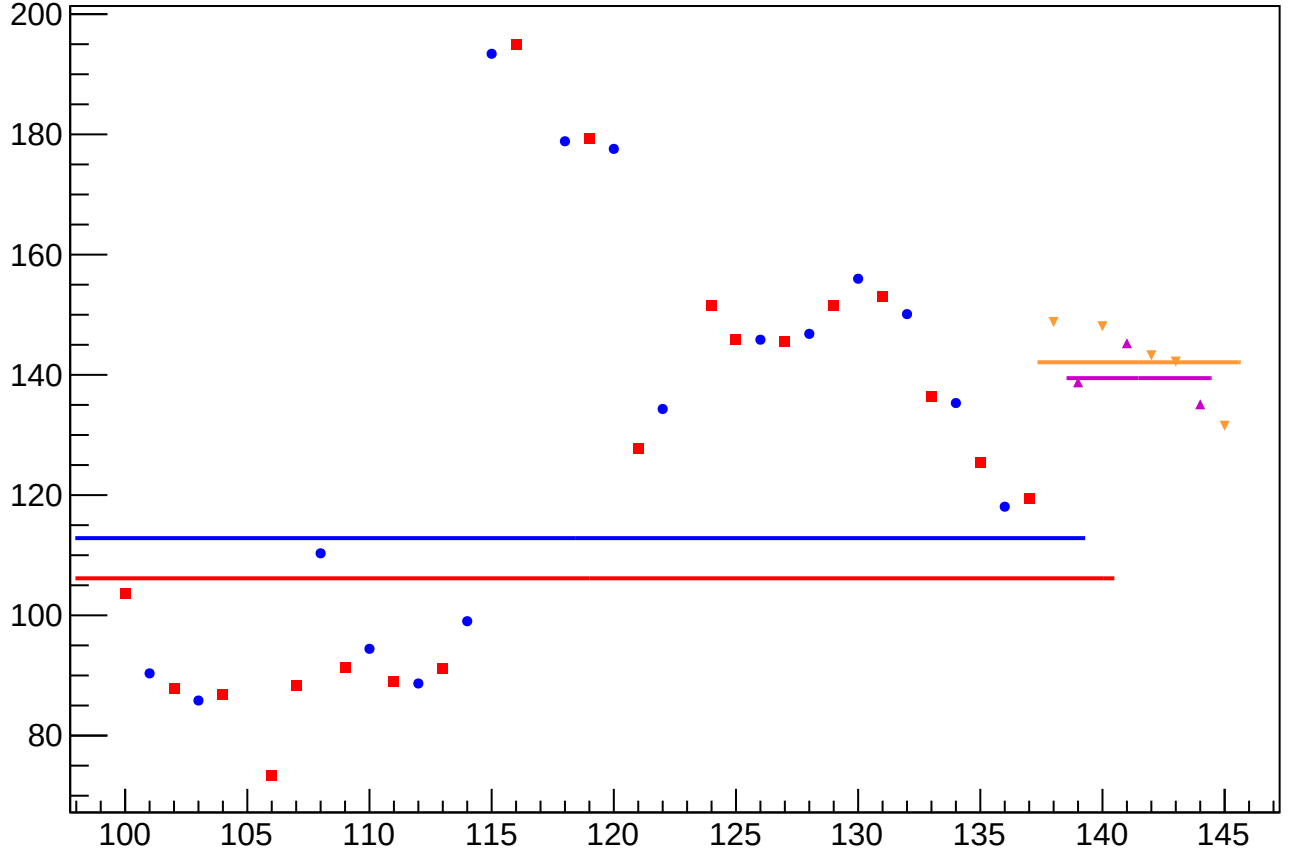
Left: 125.761+/-56.164 $\chi^2$/NDF: 7.6/7

Right: 62.383+/-29.637 $\chi^2$/NDF: 26.4/34

In: 41.439+/-38.781 $\chi^2$/NDF:16.1/18

Out: 105.413+/-35.566 $\chi^2$/NDF:17.5/23

All: 76.187+/-26.212 $\chi^2$/NDF: 35.0/42




Right In: 112.842+/-0.031 $\chi^2$/NDF: 872219.7/15

Left Out: 142.096+/-0.052 $\chi^2$/NDF:16379.1/4

Right Out: 106.158+/-0.029 $\chi^2$/NDF: 1002136.6/18

Left In: 139.455+/-0.061 $\chi^2$/NDF:4727.9/2

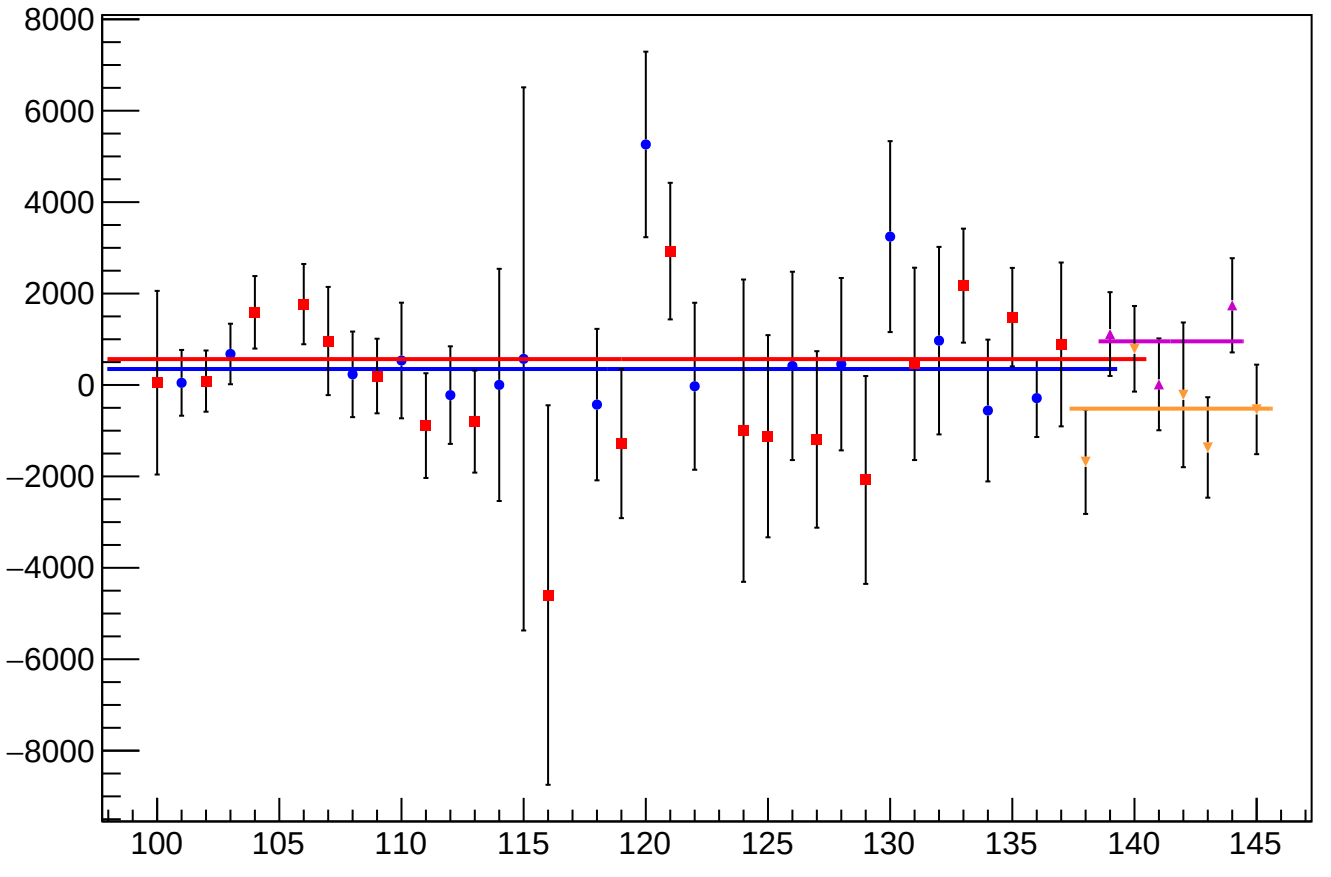
Left: 140.972+/-0.040 $\chi^2$/NDF: 22188.0/7

Right: 109.270+/-0.021 $\chi^2$/NDF: 1899665.6/34

In: 118.244+/-0.027 $\chi^2$/NDF:1029311.6/18

Out: 114.435+/-0.025 $\chi^2$/NDF:1380496.9/23

All: 116.175+/-0.019 $\chi^2$/NDF: 2420287.8/42




Right In: 349.111+/-305.328 $\chi^2$/NDF: 9.8/15

Left Out: -517.904+/-489.311 $\chi^2$/NDF:3.6/4

Right Out: 566.026+/-279.218 $\chi^2$/NDF: 18.3/18

Left In: 954.546+/-565.900 $\chi^2$/NDF:1.5/2

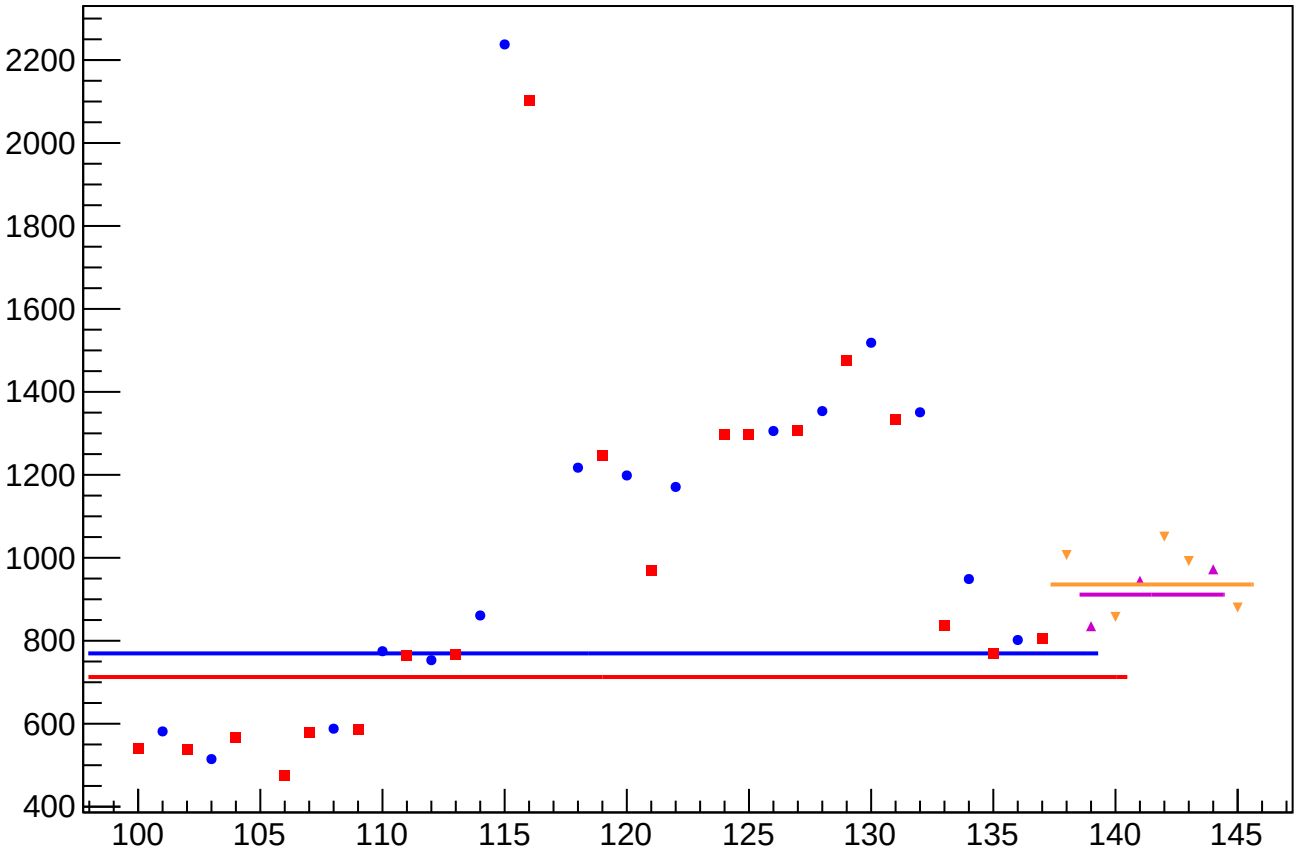
Left: 112.009+/-370.134 $\chi^2$/NDF: 9.0/7

Right: 467.238+/-206.050 $\chi^2$/NDF: 28.4/34

In: 485.619+/-268.711 $\chi^2$/NDF:12.2/18

Out: 299.771+/-242.512 $\chi^2$/NDF:25.6/23

All: 383.196+/-180.034 $\chi^2$/NDF: 38.1/42




Right In: 769.556+/-0.216 $\chi^2$/NDF: 1739933.9/15

Left Out: 935.705+/-0.346 $\chi^2$/NDF:44001.1/4

Right Out: 712.627+/-0.197 $\chi^2$/NDF: 1767219.7/18

Left In: 911.276+/-0.400 $\chi^2$/NDF:23028.5/2

Left: 925.255+/-0.262 $\chi^2$/NDF: 69162.2/7

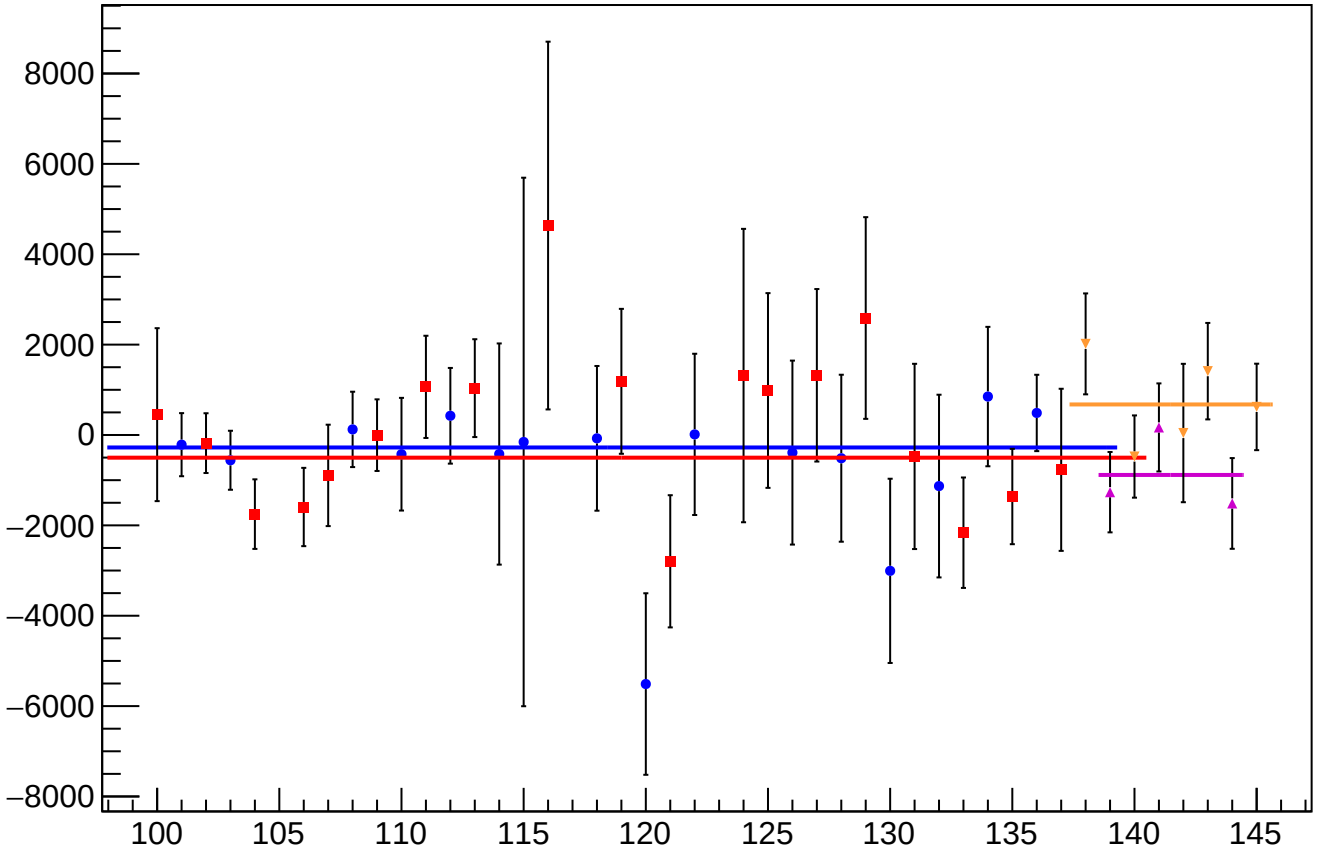
Right: 738.554+/-0.146 $\chi^2$/NDF: 3545017.2/34

In: 801.510+/-0.190 $\chi^2$/NDF:1860114.3/18

Out: 767.424+/-0.171 $\chi^2$/NDF:2124803.7/23

All: 782.725+/-0.127 $\chi^2$/NDF: 4002653.9/42

# asym_sam5_mean vs Slug, Sign Corrected




Right In: -276.199+/-296.708 $\chi^2$/NDF: 11.1/15

Left Out: 675.909+/-476.448 $\chi^2$/NDF:3.7/4

Right Out: -501.985+/-272.991 $\chi^2$/NDF: 20.5/18

Left In: -884.383+/-549.630 $\chi^2$/NDF:1.7/2

Left: 6.484+/-360.013 $\chi^2$/NDF: 10.0/7

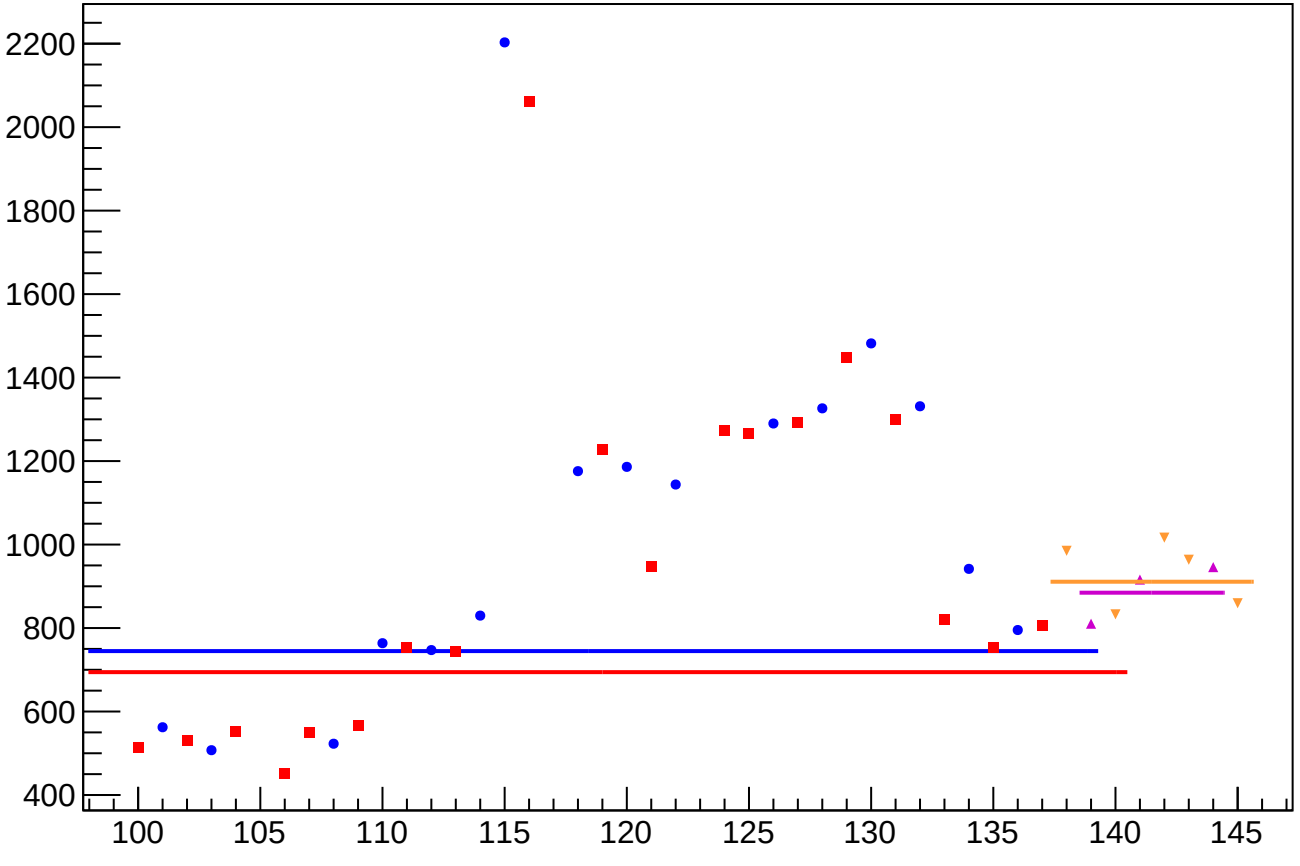
Right: -398.475+/-200.896 $\chi^2$/NDF: 31.9/34

In: -413.440+/-261.094 $\chi^2$/NDF:13.8/18

Out: -210.862+/-236.865 $\chi^2$/NDF:28.8/23

All: -302.318+/-175.430 $\chi^2$/NDF: 42.9/42

# asym_sam5_rms vs Slug, Sign Corrected




Right In: 744.783+/-0.210 $\chi^2$/NDF: 1822553.5/15

Left Out: 910.968+/-0.337 $\chi^2$/NDF:43733.1/4

Right Out: 694.348+/-0.193 $\chi^2$/NDF: 1803741.9/18

Left In: 884.671+/-0.389 $\chi^2$/NDF:23493.2/2

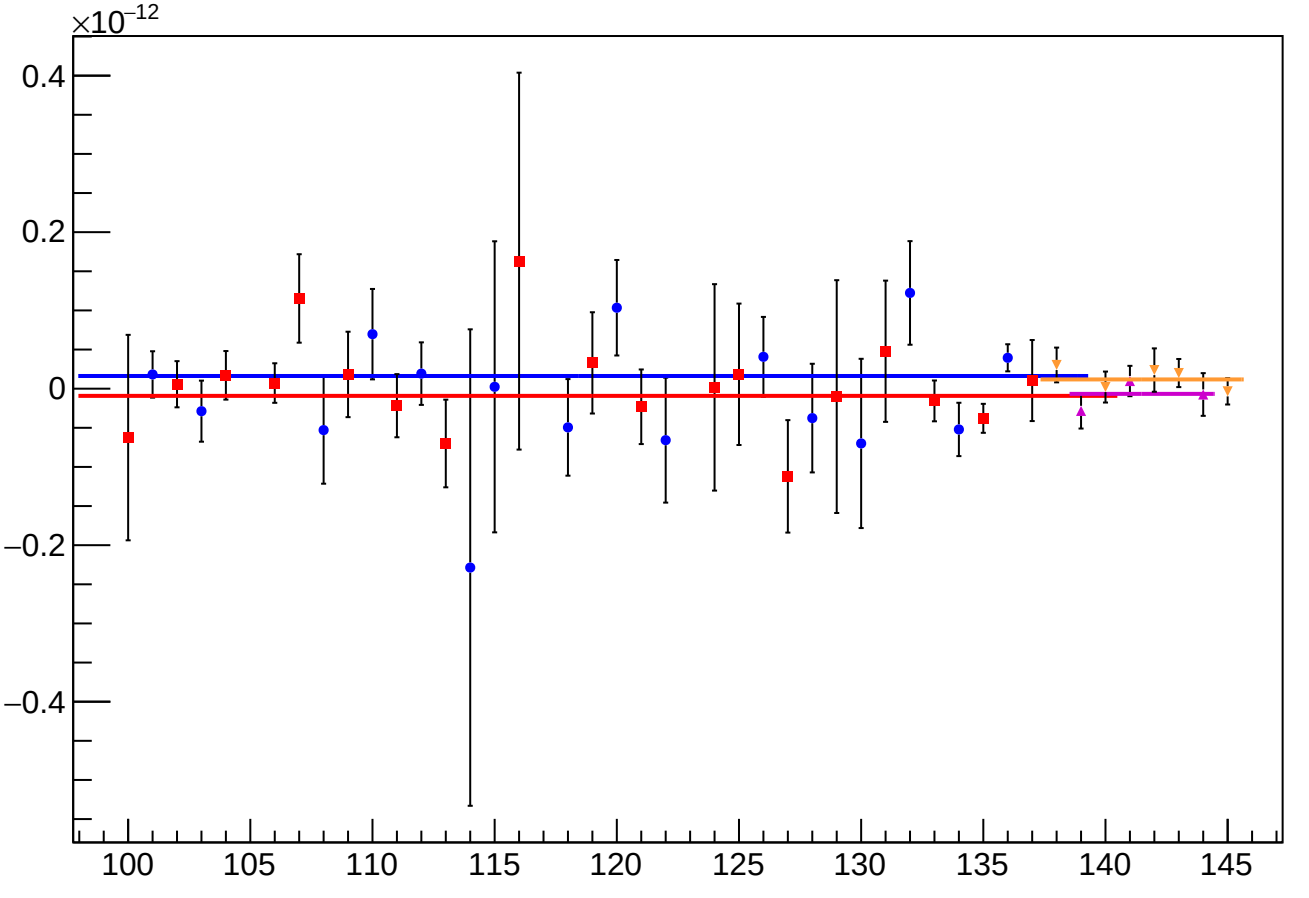
Left: 899.686+/-0.255 $\chi^2$/NDF: 69840.4/7

Right: 717.469+/-0.142 $\chi^2$/NDF: 3657590.2/34

In: 776.350+/-0.185 $\chi^2$/NDF:1946365.7/18

Out: 747.887+/-0.167 $\chi^2$/NDF:2158719.9/23

All: 760.737+/-0.124 $\chi^2$/NDF: 4118123.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.1/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.6/2

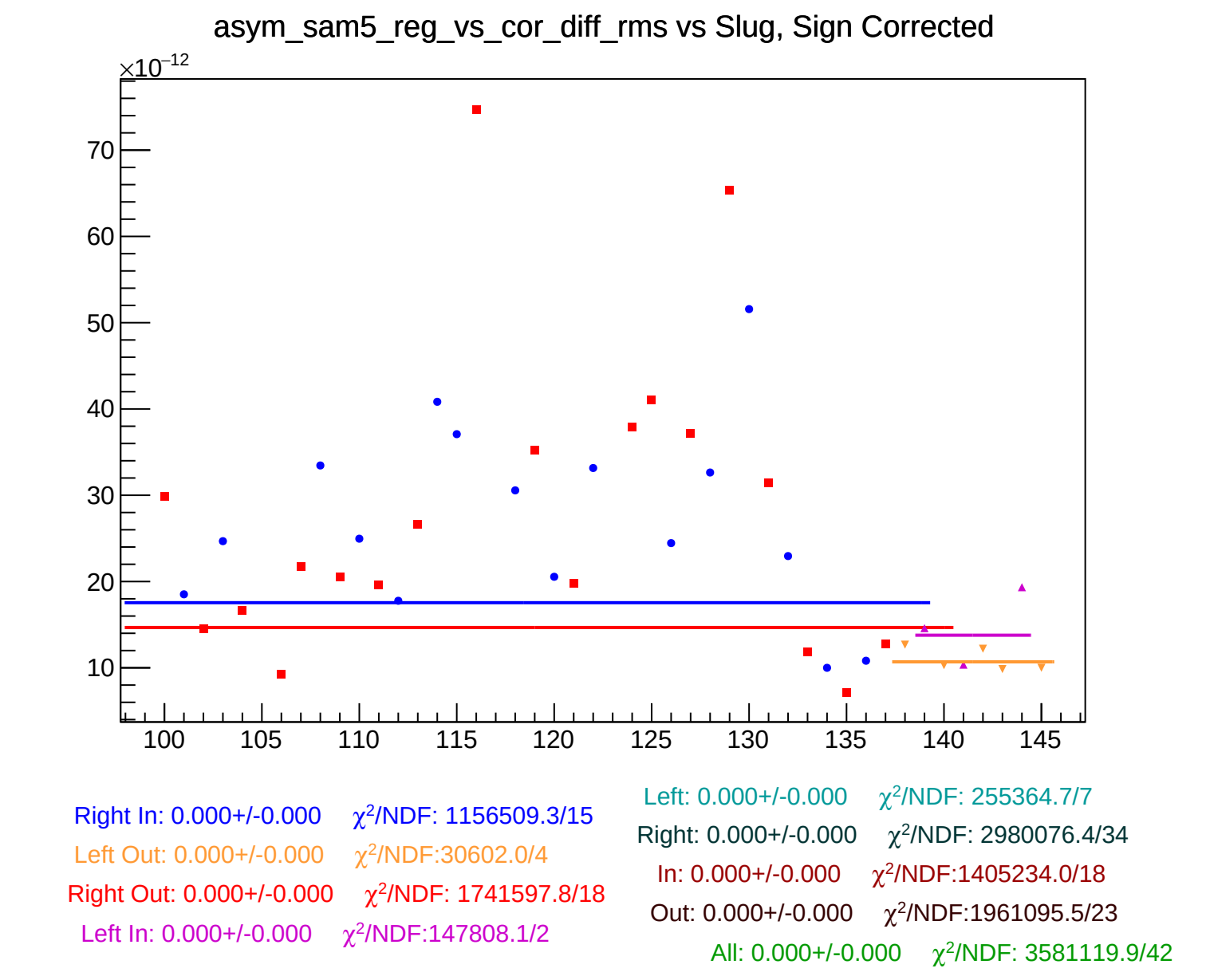
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.2/7

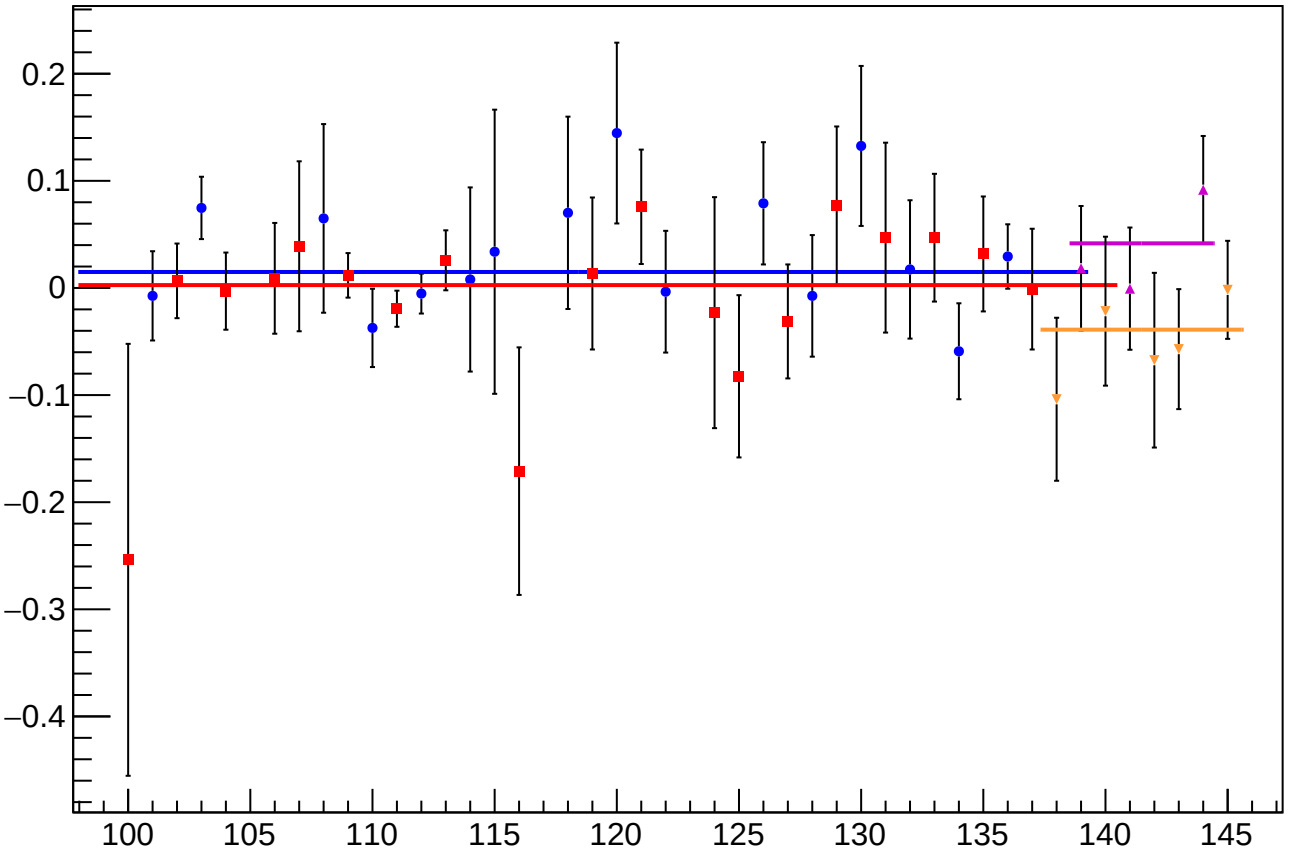
Right: 0.000+/-0.000 $\chi^2$/NDF: 35.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:21.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:18.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 40.6/42


asym_sam5_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1156509.3/15
Left Out: 0.000+/-0.000 χ²/NDF:30602.0/4
Right Out: 0.000+/-0.000 χ²/NDF: 1741597.8/18
Left In: 0.000+/-0.000 χ²/NDF:147808.1/2
Left: 0.000+/-0.000 χ²/NDF: 255364.7/7
Right: 0.000+/-0.000 χ²/NDF: 2980076.4/34
In: 0.000+/-0.000 χ²/NDF:1405234.0/18
Out: 0.000+/-0.000 χ²/NDF:1961095.5/23
All: 0.000+/-0.000 χ²/NDF: 3581119.9/42




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.039+/-0.027 $\chi^2$/NDF:1.7/4

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.042+/-0.032 $\chi^2$/NDF:1.7/2

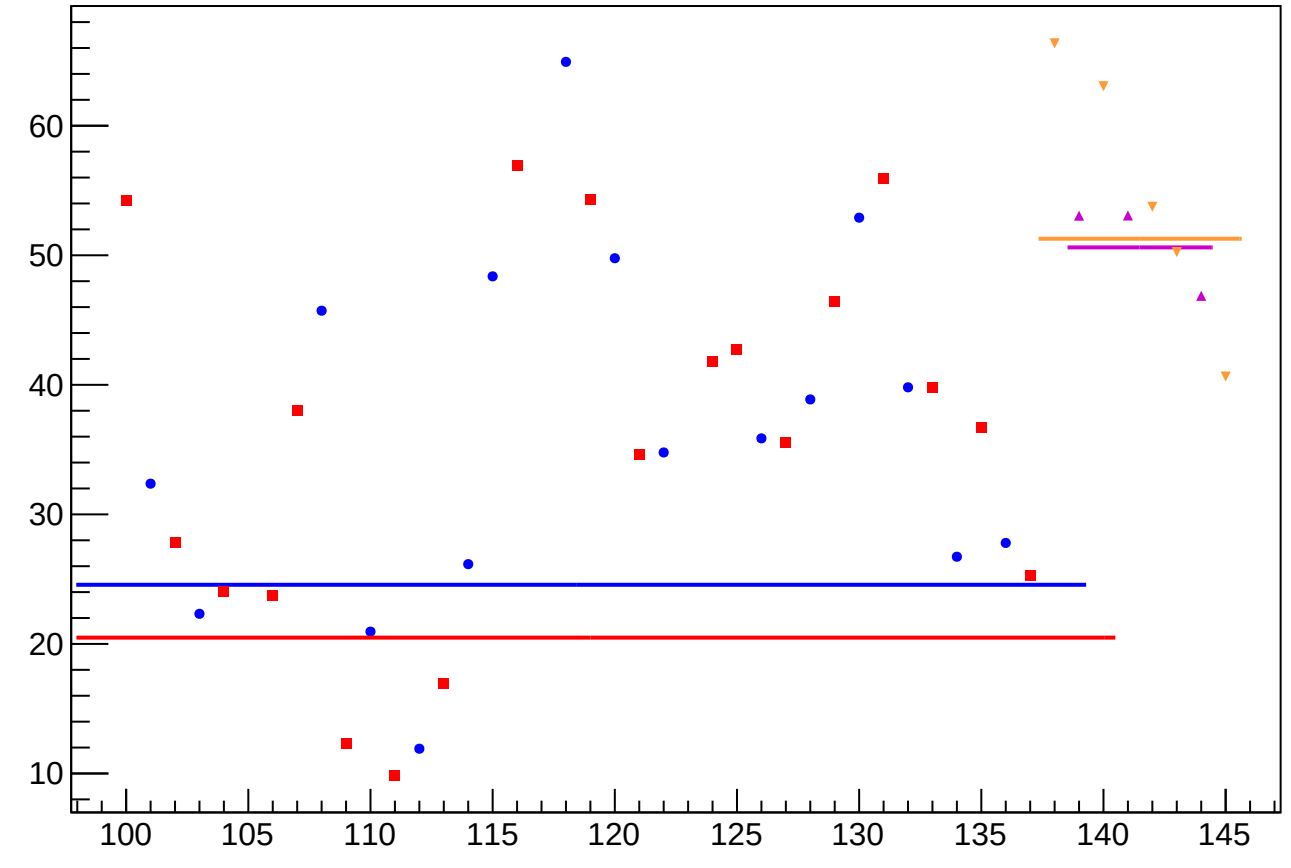
Left: -0.004+/-0.021 $\chi^2$/NDF: 7.1/7

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.018+/-0.010 $\chi^2$/NDF:20.1/18

Out: -0.002+/-0.009 $\chi^2$/NDF:16.2/23

All: 0.007+/-0.007 $\chi^2$/NDF: 38.4/42




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484530.5/15

Left Out: 51.280+/-0.019 $\chi^2$/NDF:246495.1/4

Right Out: 20.488+/-0.007 $\chi^2$/NDF: 3583938.4/18

Left In: 50.608+/-0.022 $\chi^2$/NDF:18386.5/2

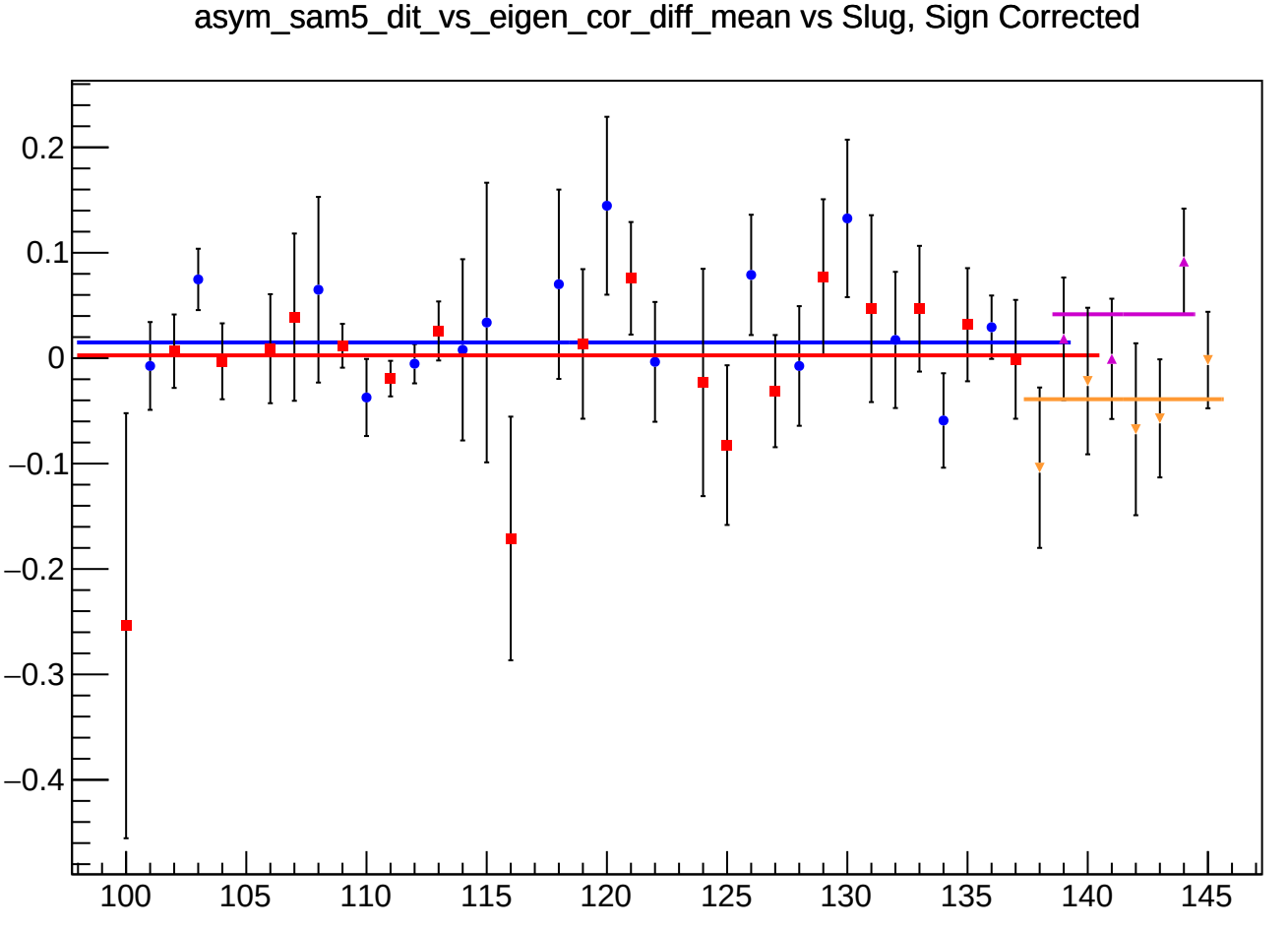
Left: 50.991+/-0.015 $\chi^2$/NDF: 265396.7/7

Right: 22.248+/-0.005 $\chi^2$/NDF: 6237147.6/34

In: 27.191+/-0.007 $\chi^2$/NDF:3722623.1/18

Out: 23.611+/-0.006 $\chi^2$/NDF:6090215.6/23

All: 25.156+/-0.005 $\chi^2$/NDF: 9957414.7/42




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.039+/-0.027 $\chi^2$/NDF:1.7/4

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.042+/-0.032 $\chi^2$/NDF:1.7/2

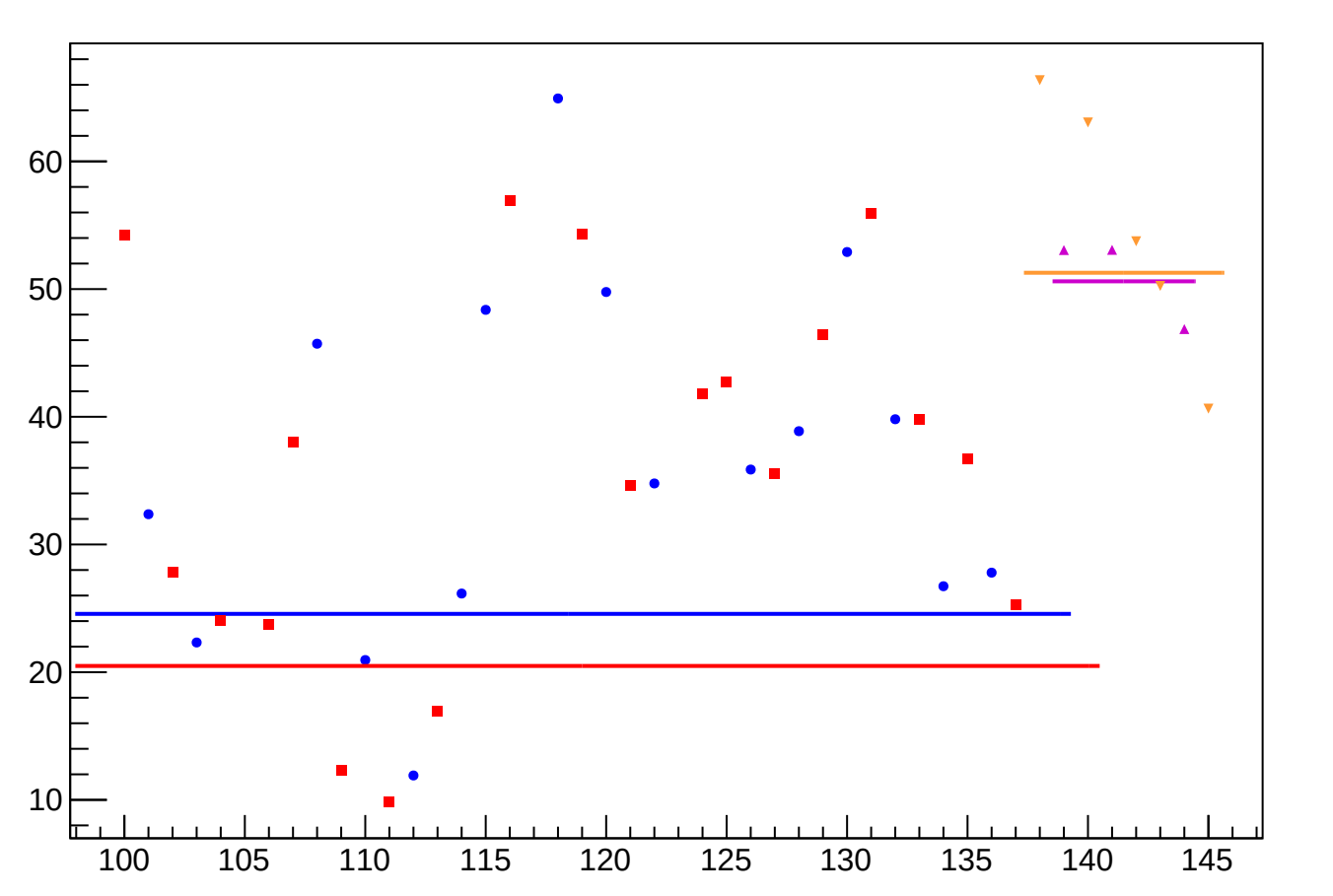
Left: -0.004+/-0.021 $\chi^2$/NDF: 7.1/7

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.018+/-0.010 $\chi^2$/NDF:20.1/18

Out: -0.002+/-0.009 $\chi^2$/NDF:16.2/23

All: 0.007+/-0.007 $\chi^2$/NDF: 38.4/42




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484530.5/15

Left Out: 51.280+/-0.019 $\chi^2$/NDF:246495.1/4

Right Out: 20.488+/-0.007 $\chi^2$/NDF: 3583938.4/18

Left In: 50.608+/-0.022 $\chi^2$/NDF:18386.5/2

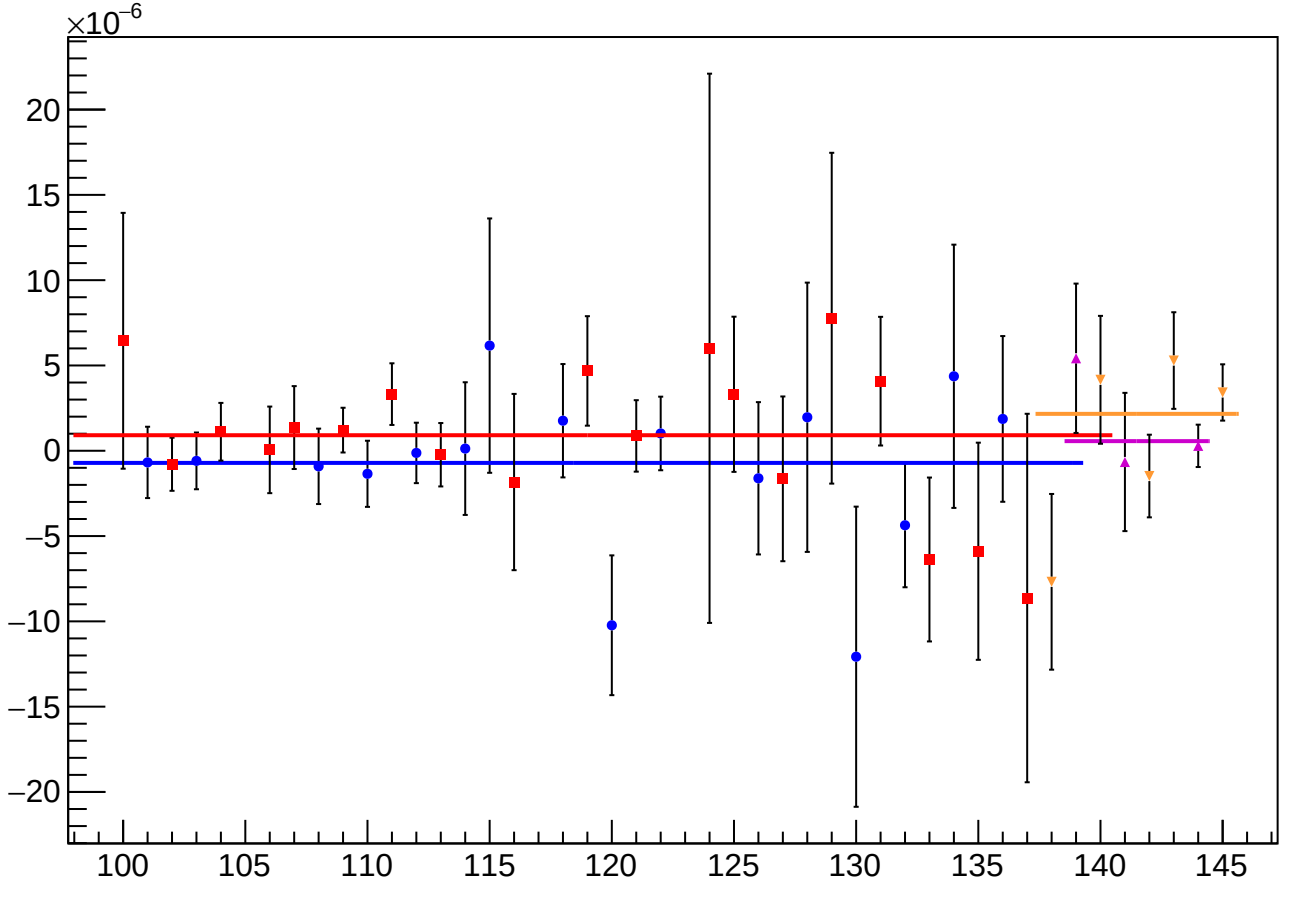
Left: 50.991+/-0.015 $\chi^2$/NDF: 265396.7/7

Right: 22.248+/-0.005 $\chi^2$/NDF: 6237147.6/34

In: 27.191+/-0.007 $\chi^2$/NDF:3722623.1/18

Out: 23.611+/-0.006 $\chi^2$/NDF:6090215.6/23

All: 25.156+/-0.005 $\chi^2$/NDF: 9957414.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:8.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/2

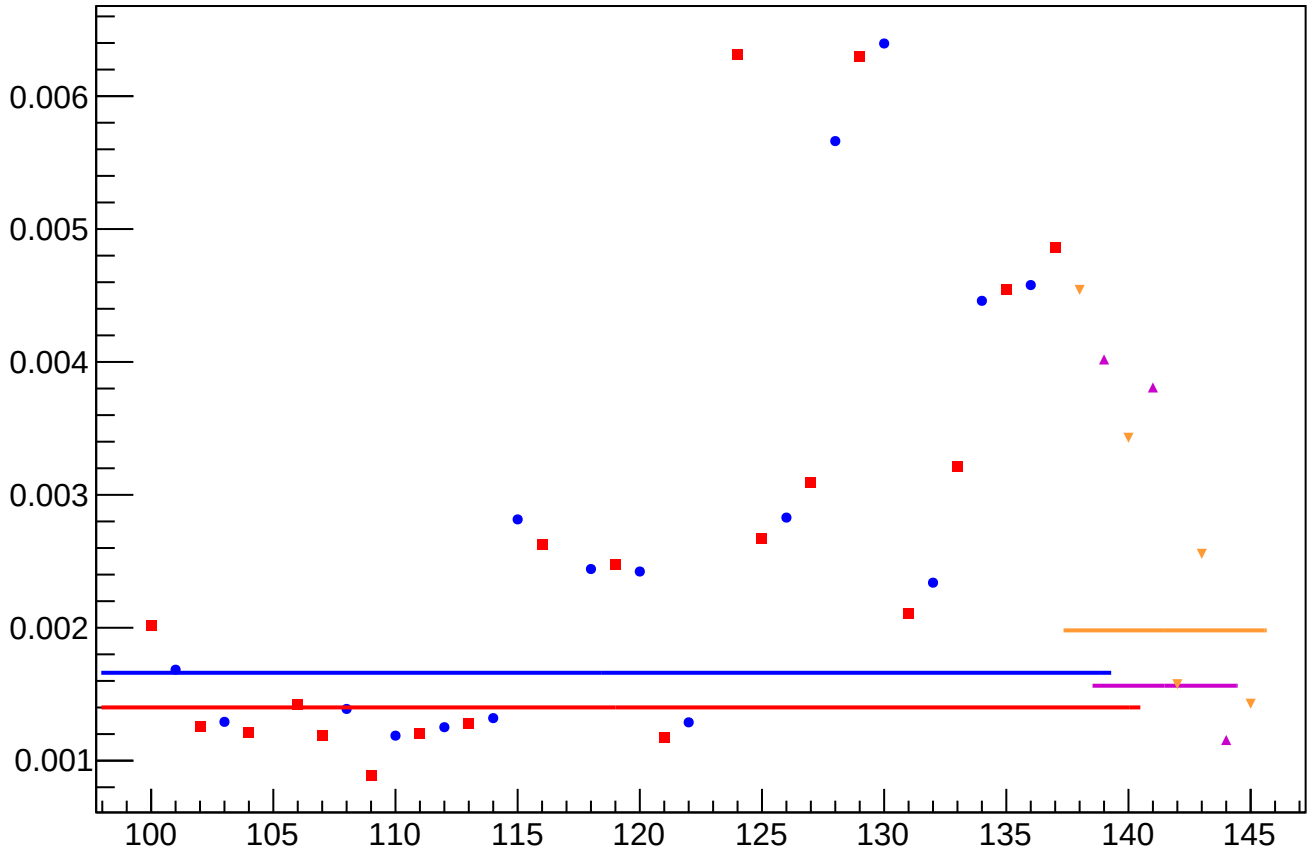
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 26.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:13.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:20.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 38.1/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2942035.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1156237.3/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2915624.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:1459079.2/2

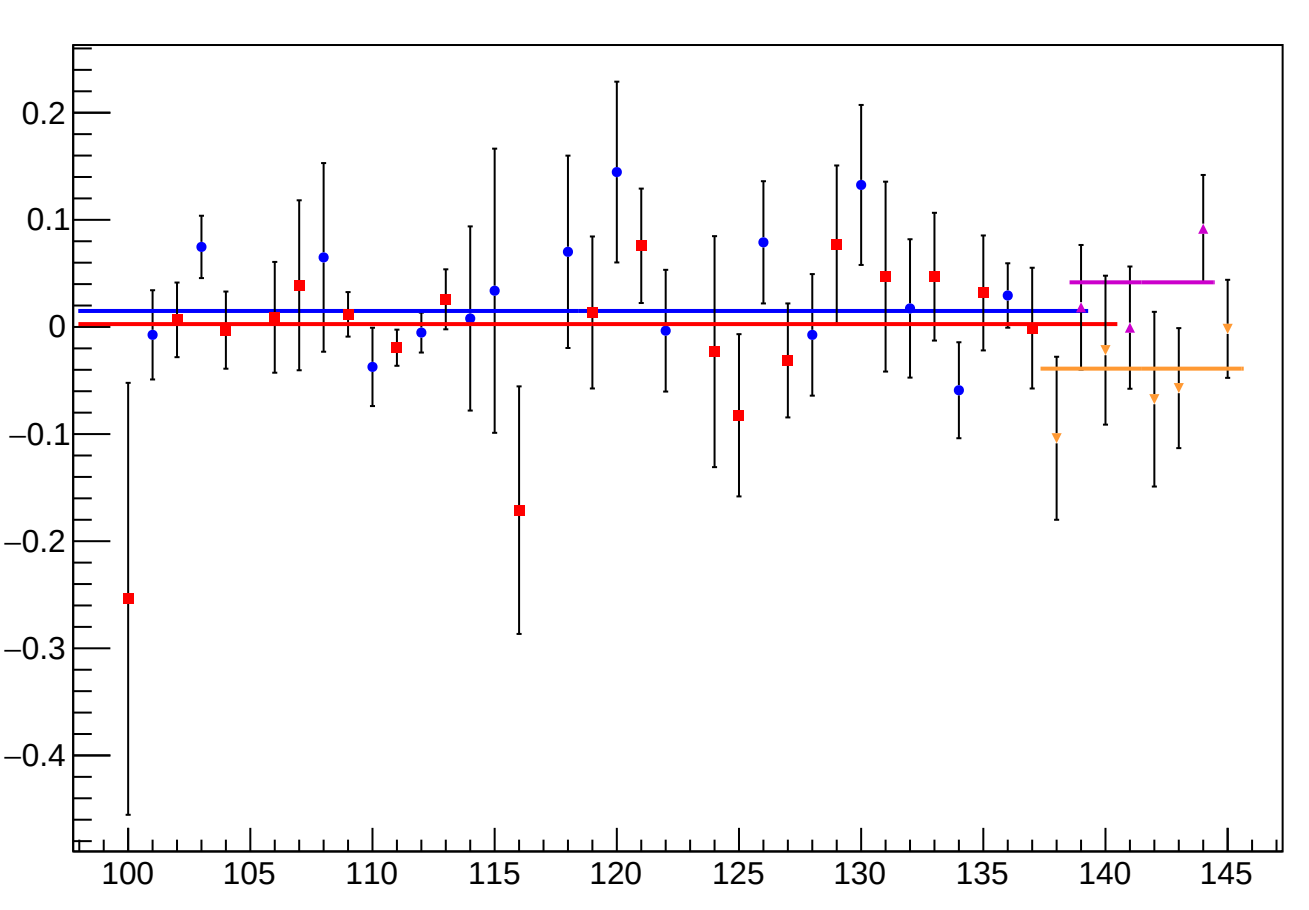
Left: 0.002+/-0.000 $\chi^2$/NDF: 2748150.7/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 6020323.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:4411632.8/18

Out: 0.002+/-0.000 $\chi^2$/NDF:4480923.2/23

All: 0.002+/-0.000 $\chi^2$/NDF: 8932646.4/42




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.039+/-0.027 $\chi^2$/NDF:1.7/4

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.042+/-0.032 $\chi^2$/NDF:1.7/2

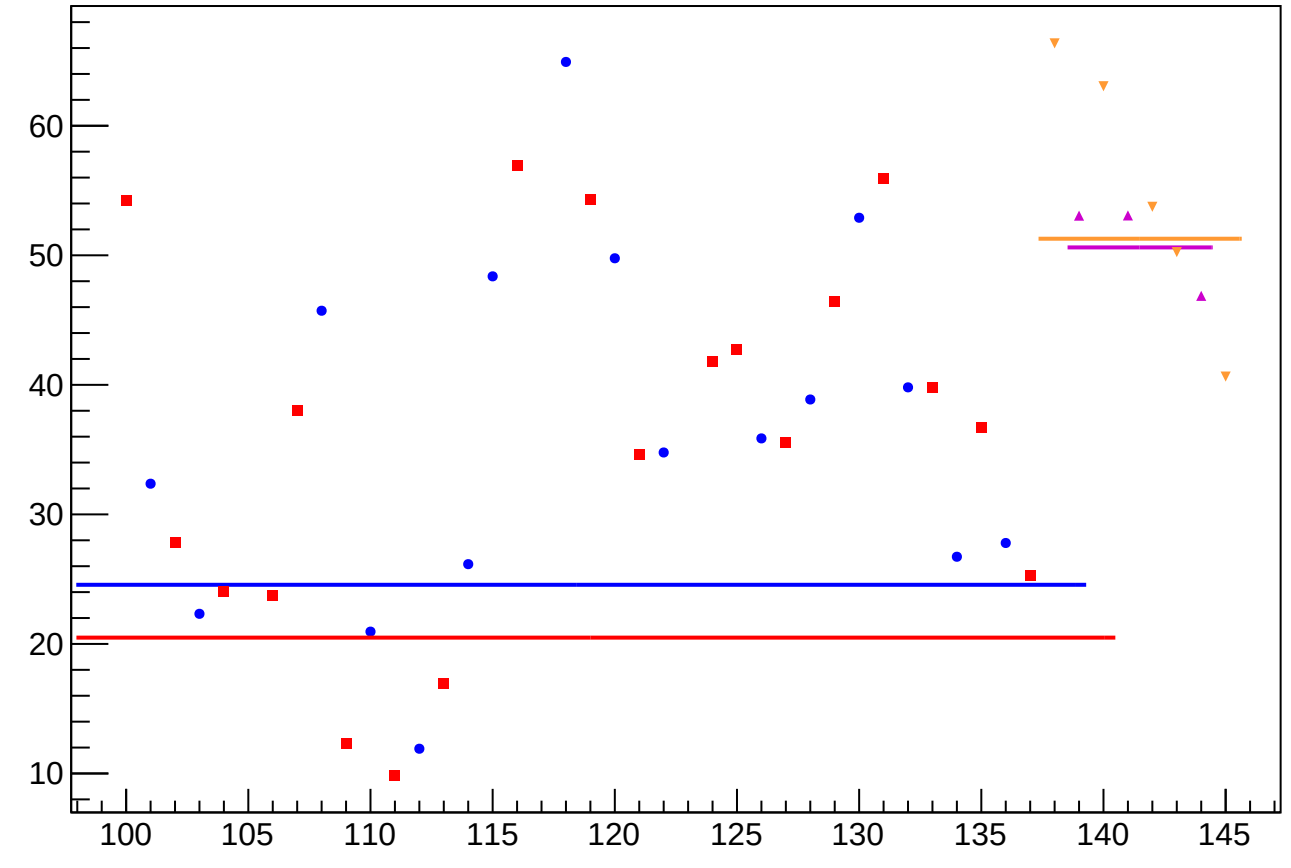
Left: -0.004+/-0.021 $\chi^2$/NDF: 7.1/7

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.018+/-0.010 $\chi^2$/NDF:20.1/18

Out: -0.002+/-0.009 $\chi^2$/NDF:16.2/23

All: 0.007+/-0.007 $\chi^2$/NDF: 38.4/42




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484434.5/15

Left Out: 51.280+/-0.019 $\chi^2$/NDF:246534.4/4

Right Out: 20.487+/-0.007 $\chi^2$/NDF: 3583888.1/18

Left In: 50.609+/-0.022 $\chi^2$/NDF:18399.0/2

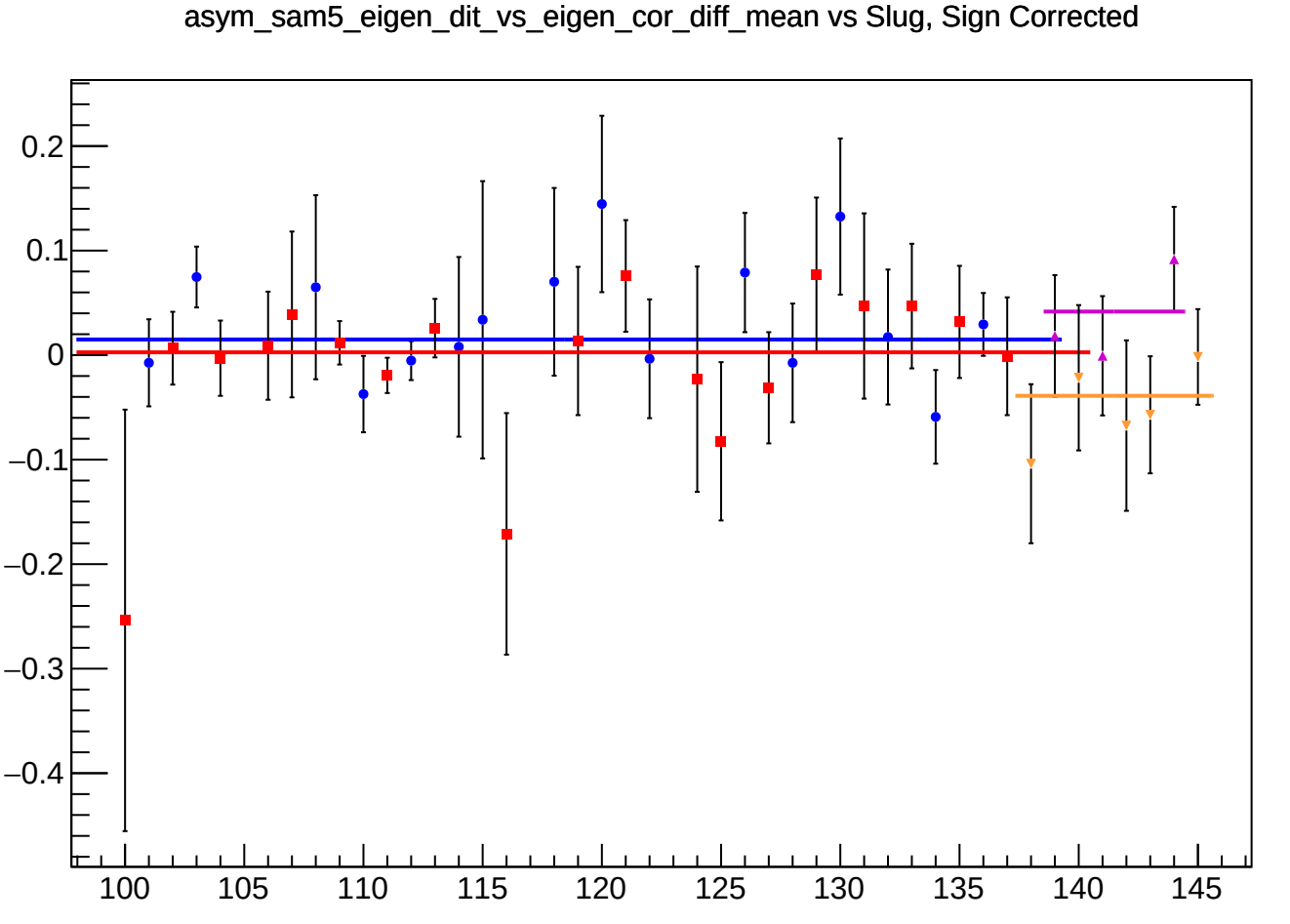
Left: 50.992+/-0.015 $\chi^2$/NDF: 265446.8/7

Right: 22.247+/-0.005 $\chi^2$/NDF: 6237010.7/34

In: 27.190+/-0.007 $\chi^2$/NDF:3722657.6/18

Out: 23.611+/-0.006 $\chi^2$/NDF:6090296.0/23

All: 25.155+/-0.005 $\chi^2$/NDF: 9957540.3/42




Right In: 0.015+/-0.011 $\chi^2$/NDF: 17.8/15

Left Out: -0.039+/-0.027 $\chi^2$/NDF:1.7/4

Right Out: 0.003+/-0.009 $\chi^2$/NDF: 12.5/18

Left In: 0.042+/-0.032 $\chi^2$/NDF:1.7/2

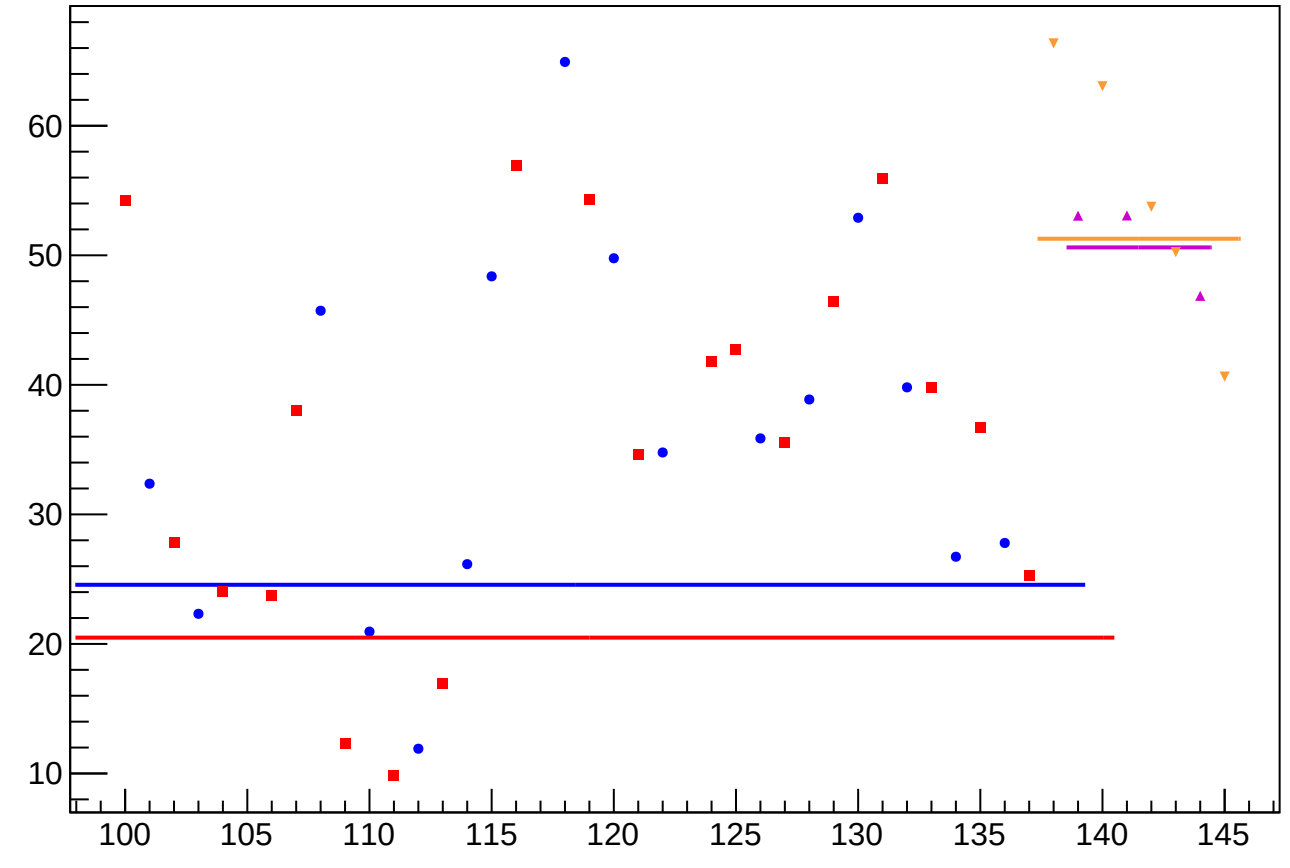
Left: -0.004+/-0.021 $\chi^2$/NDF: 7.1/7

Right: 0.008+/-0.007 $\chi^2$/NDF: 31.0/34

In: 0.018+/-0.010 $\chi^2$/NDF:20.1/18

Out: -0.002+/-0.009 $\chi^2$/NDF:16.2/23

All: 0.007+/-0.007 $\chi^2$/NDF: 38.4/42




Right In: 24.566+/-0.007 $\chi^2$/NDF: 2484434.5/15

Left Out: 51.280+/-0.019 $\chi^2$/NDF:246534.4/4

Right Out: 20.487+/-0.007 $\chi^2$/NDF: 3583888.1/18

Left In: 50.609+/-0.022 $\chi^2$/NDF:18399.0/2

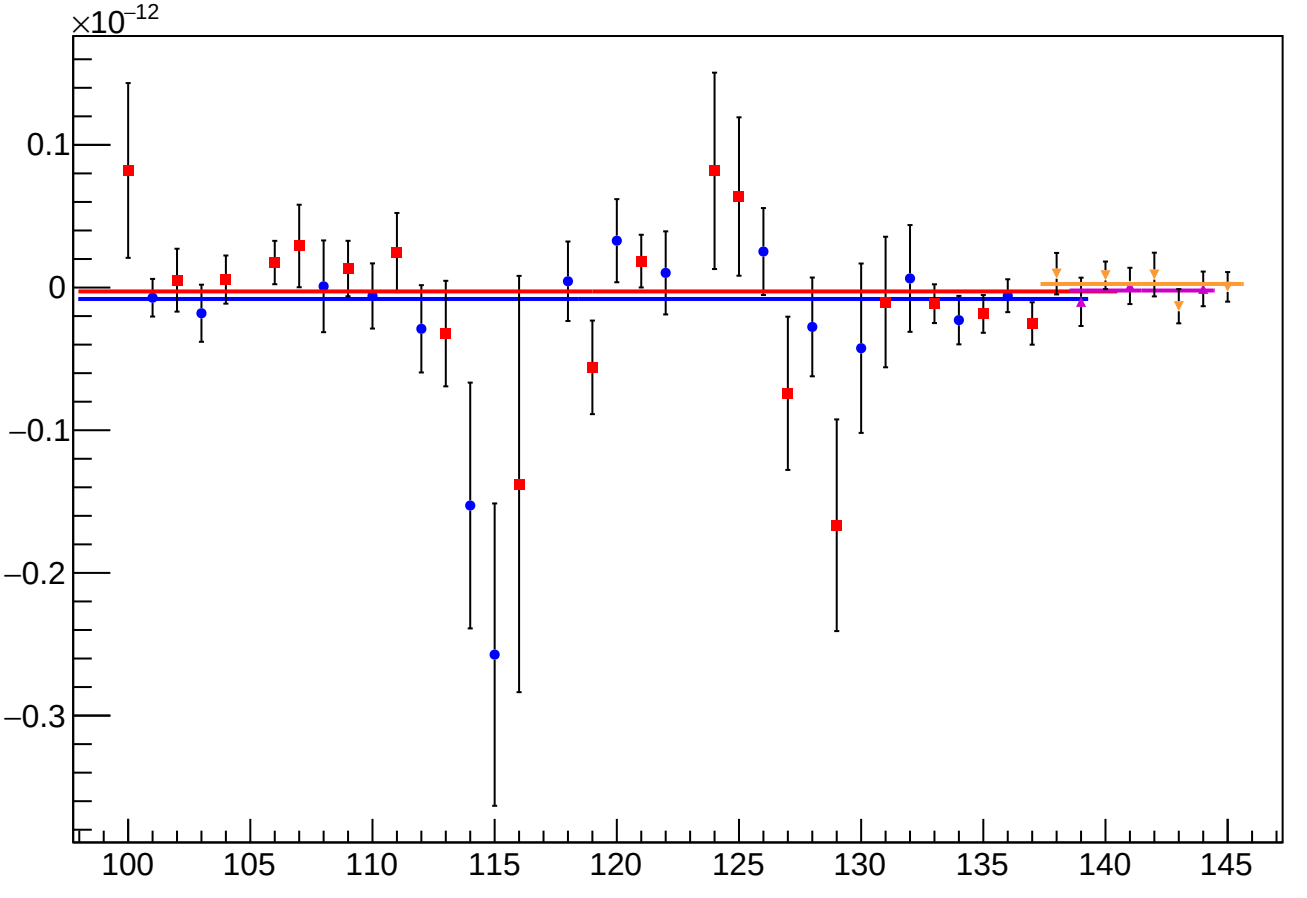
Left: 50.992+/-0.015 $\chi^2$/NDF: 265446.8/7

Right: 22.247+/-0.005 $\chi^2$/NDF: 6237010.7/34

In: 27.190+/-0.007 $\chi^2$/NDF:3722657.6/18

Out: 23.611+/-0.006 $\chi^2$/NDF:6090296.0/23

All: 25.155+/-0.005 $\chi^2$/NDF: 9957540.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.3/2

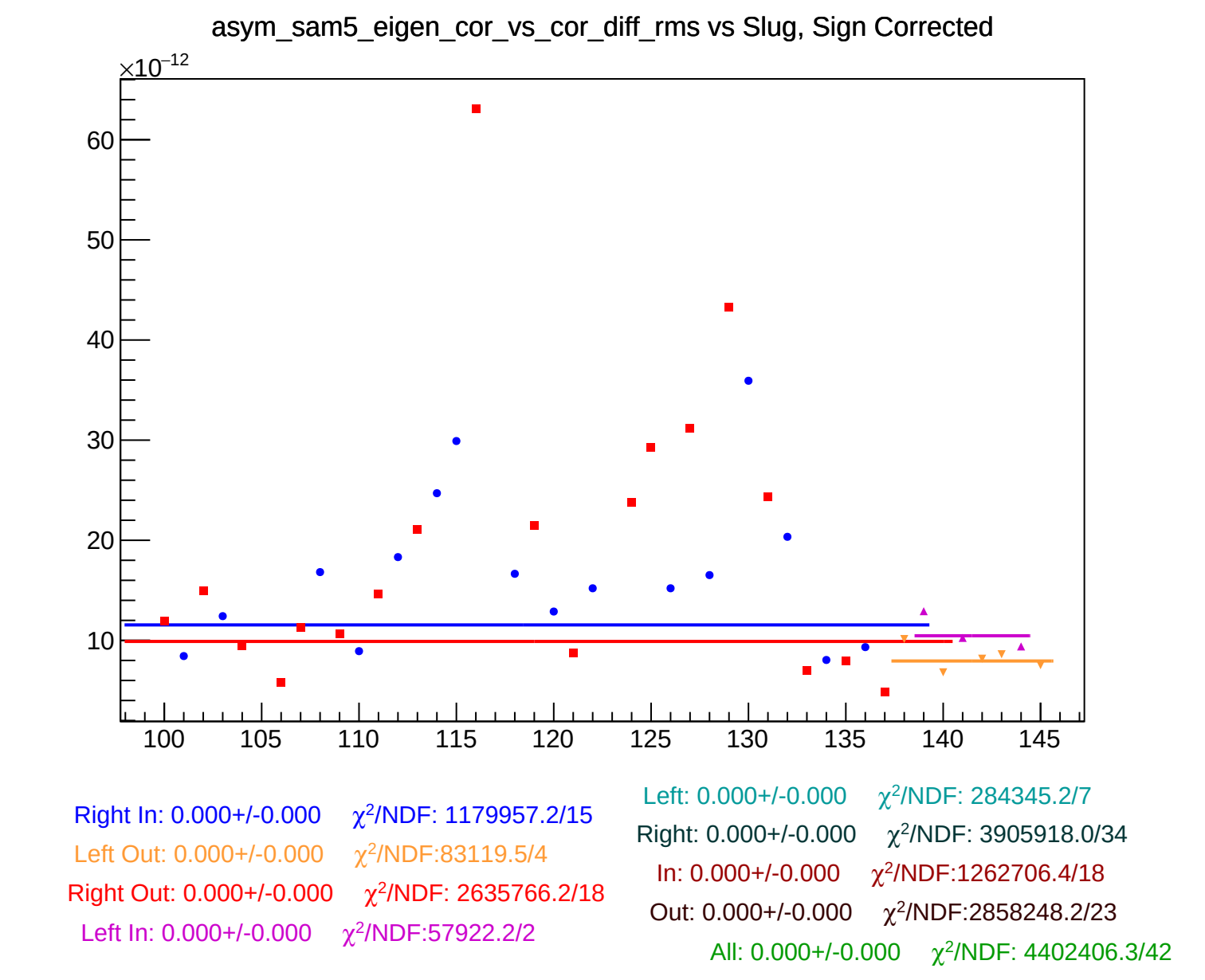
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.1/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:15.2/18

Out: -0.000+/-0.000 $\chi^2$/NDF:29.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 45.3/42


asym_sam5_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
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120
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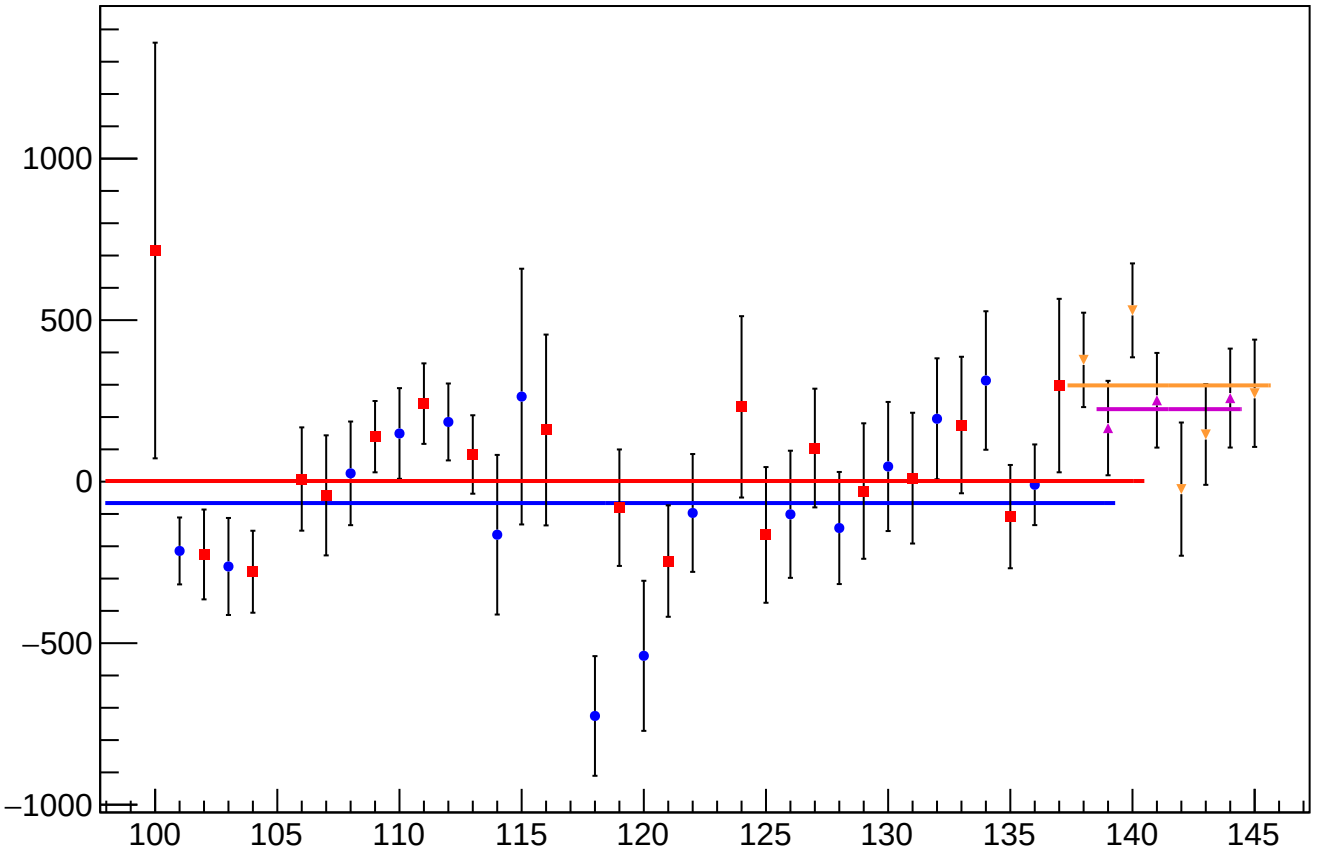
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1179957.2/15
Left Out: 0.000+/-0.000 χ²/NDF:83119.5/4
Right Out: 0.000+/-0.000 χ²/NDF: 2635766.2/18
Left In: 0.000+/-0.000 χ²/NDF:57922.2/2
Left: 0.000+/-0.000 χ²/NDF: 284345.2/7
Right: 0.000+/-0.000 χ²/NDF: 3905918.0/34
In: 0.000+/-0.000 χ²/NDF:1262706.4/18
Out: 0.000+/-0.000 χ²/NDF:2858248.2/23
All: 0.000+/-0.000 χ²/NDF: 4402406.3/42




Right In: -66.230+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 297.996+/-71.595 $\chi^2$/NDF:6.2/4

Right Out: 2.017+/-38.866 $\chi^2$/NDF: 21.1/18

Left In: 224.471+/-85.748 $\chi^2$/NDF:0.2/2

Left: 267.794+/-54.957 $\chi^2$/NDF: 6.9/7

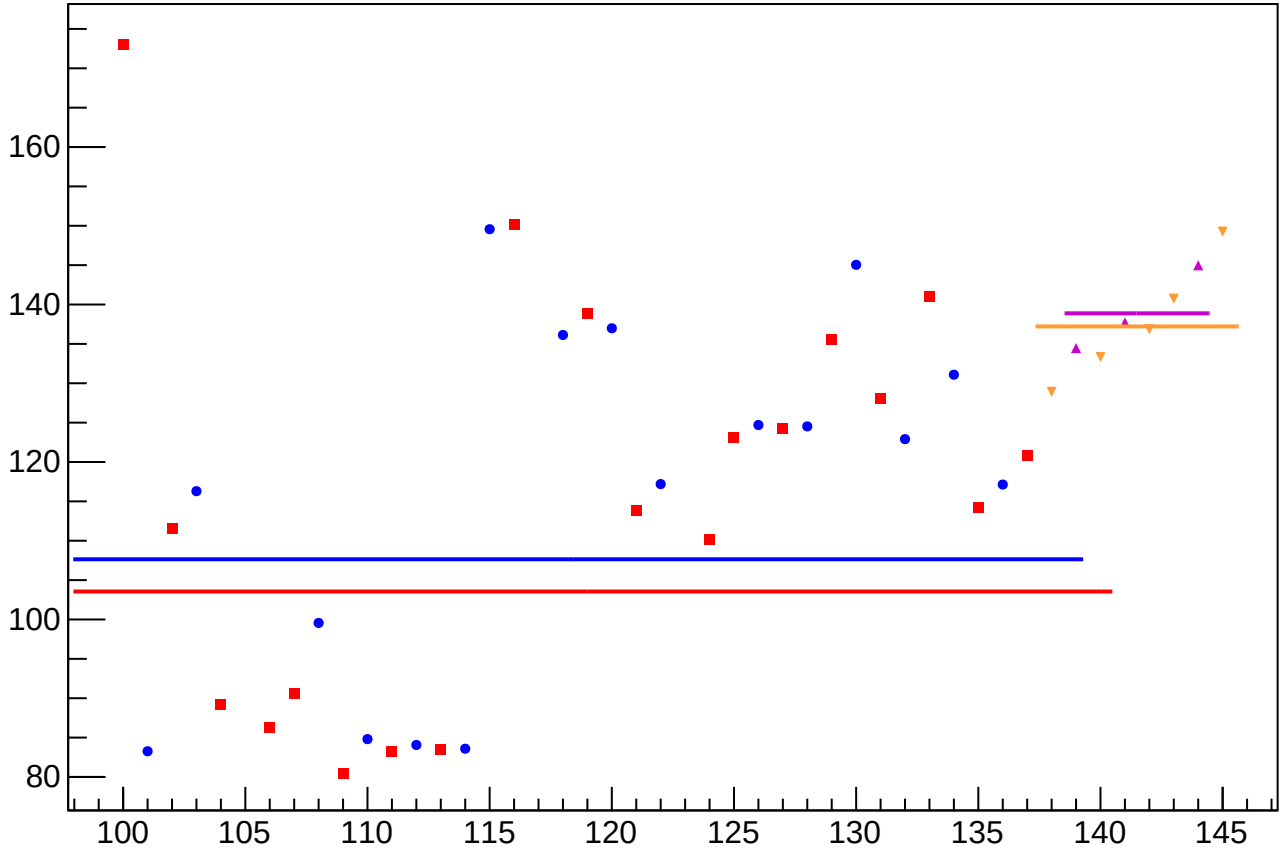
Right: -30.337+/-28.186 $\chi^2$/NDF: 57.0/34

In: -12.271+/-36.943 $\chi^2$/NDF:44.0/18

Out: 69.389+/-34.158 $\chi^2$/NDF:40.6/23

All: 31.753+/-25.080 $\chi^2$/NDF: 87.2/42

# reg_asym_sam6_rms vs Slug, Sign Corrected




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532821.7/15

Left Out: 137.216+/-0.051 $\chi^2$/NDF:19428.8/4

Right Out: 103.550+/-0.027 $\chi^2$/NDF: 617345.0/18

Left In: 138.881+/-0.061 $\chi^2$/NDF:5118.8/2

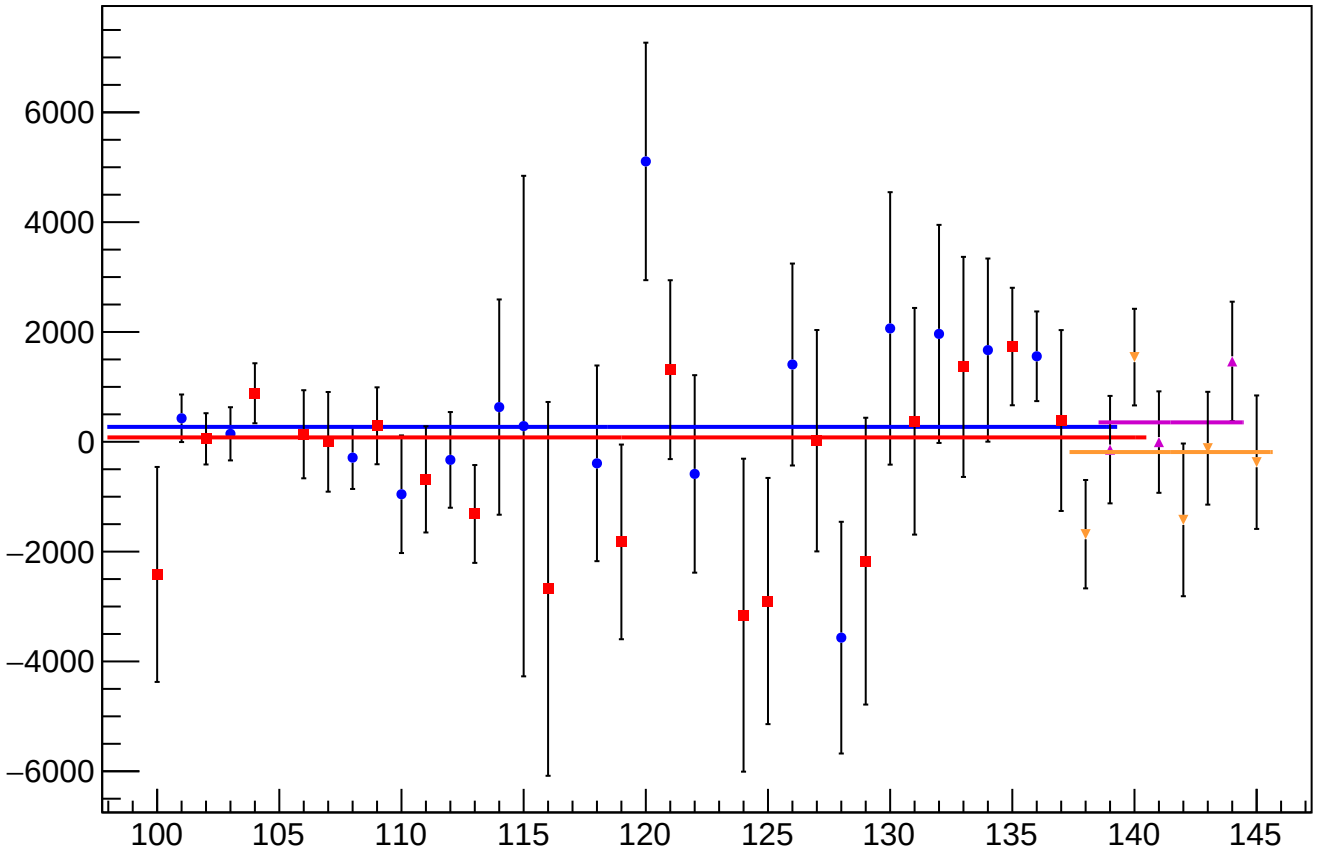
Left: 137.900+/-0.039 $\chi^2$/NDF: 24992.2/7

Right: 105.491+/-0.020 $\chi^2$/NDF: 1160688.9/34

In: 113.442+/-0.026 $\chi^2$/NDF:754088.5/18

Out: 111.213+/-0.024 $\chi^2$/NDF:978344.1/23

All: 112.240+/-0.018 $\chi^2$/NDF: 1736359.0/42




Right In: 271.505+/-230.663 $\chi^2$/NDF: 16.5/15

Left Out: -186.604+/-473.512 $\chi^2$/NDF:7.0/4

Right Out: 80.094+/-232.154 $\chi^2$/NDF: 16.0/18

Left In: 353.807+/-571.494 $\chi^2$/NDF:1.5/2

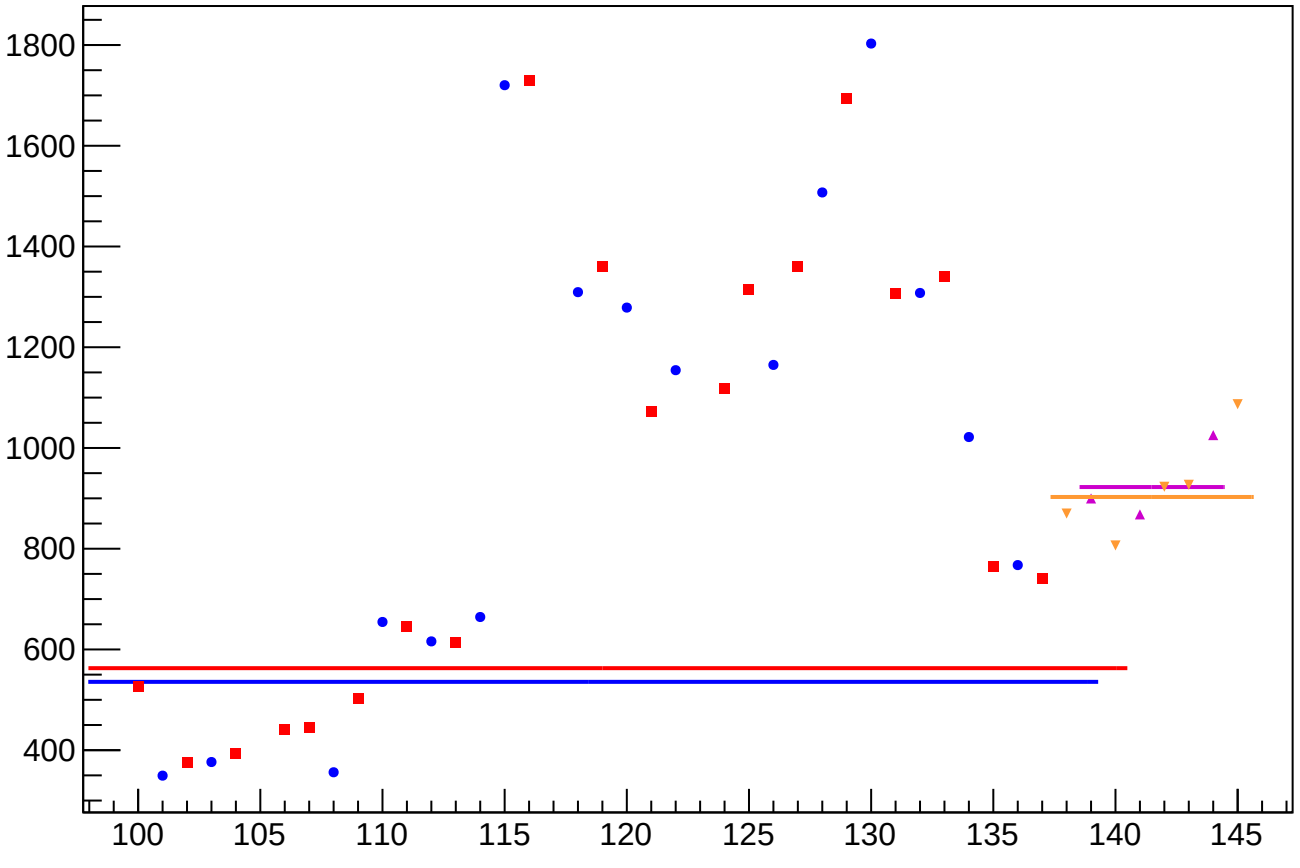
Left: 33.373+/-364.618 $\chi^2$/NDF: 9.0/7

Right: 176.417+/-163.628 $\chi^2$/NDF: 32.8/34

In: 283.034+/-213.897 $\chi^2$/NDF:17.9/18

Out: 28.410+/-208.449 $\chi^2$/NDF:23.2/23

All: 152.438+/-149.285 $\chi^2$/NDF: 41.9/42




Right In: 535.683+/-0.163 $\chi^2$/NDF: 3632390.5/15

Left Out: 902.712+/-0.335 $\chi^2$/NDF:73597.9/4

Right Out: 562.845+/-0.164 $\chi^2$/NDF: 3111031.5/18

Left In: 922.437+/-0.404 $\chi^2$/NDF:25967.3/2

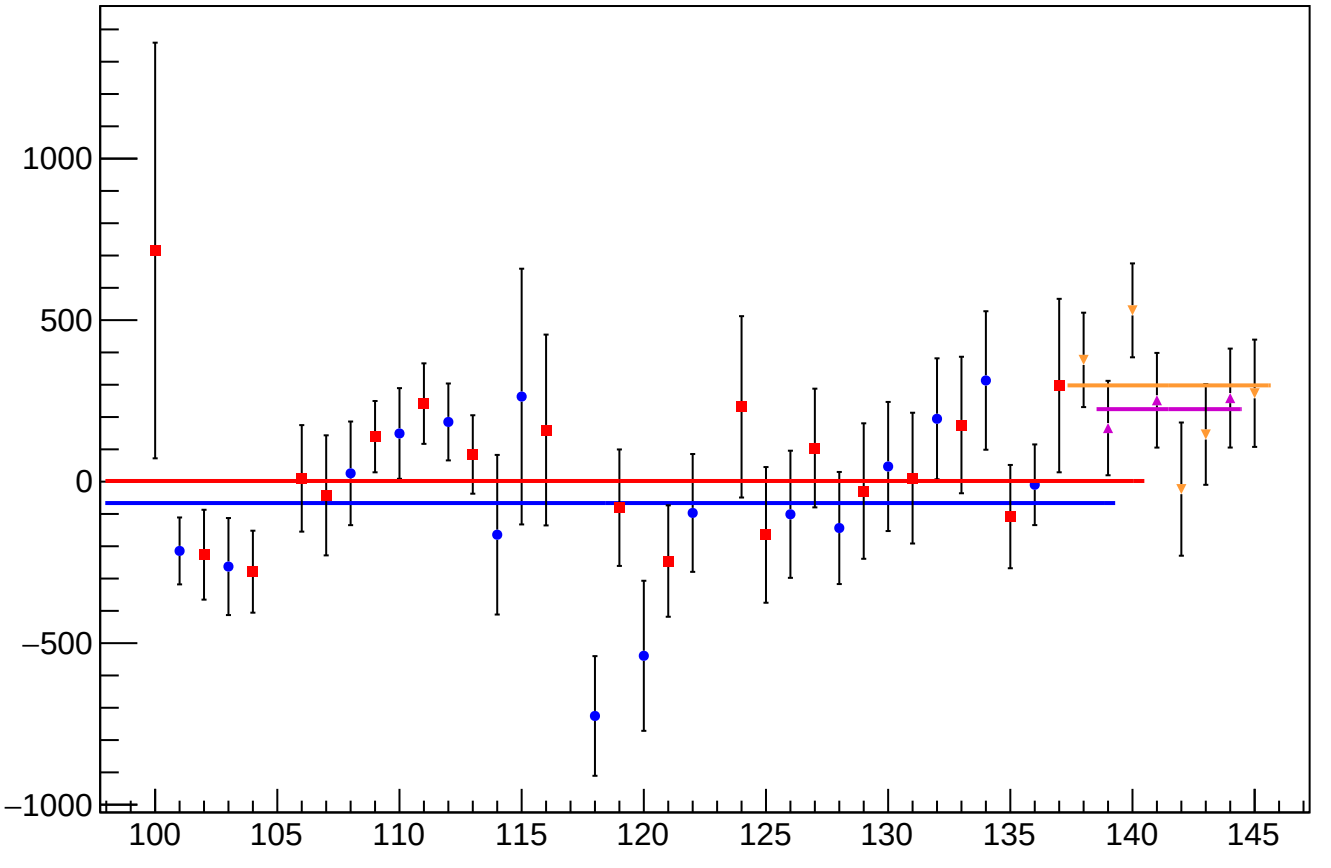
Left: 910.741+/-0.258 $\chi^2$/NDF: 100977.9/7

Right: 549.176+/-0.116 $\chi^2$/NDF: 6757198.8/34

In: 589.861+/-0.151 $\chi^2$/NDF:4446004.9/18

Out: 628.709+/-0.147 $\chi^2$/NDF:4015309.3/23

All: 609.786+/-0.106 $\chi^2$/NDF: 8495150.5/42




Right In: -66.256+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 298.000+/-71.595 $\chi^2$/NDF:6.2/4

Right Out: 2.062+/-38.937 $\chi^2$/NDF: 21.1/18

Left In: 224.466+/-85.748 $\chi^2$/NDF:0.2/2

Left: 267.794+/-54.957 $\chi^2$/NDF: 6.9/7

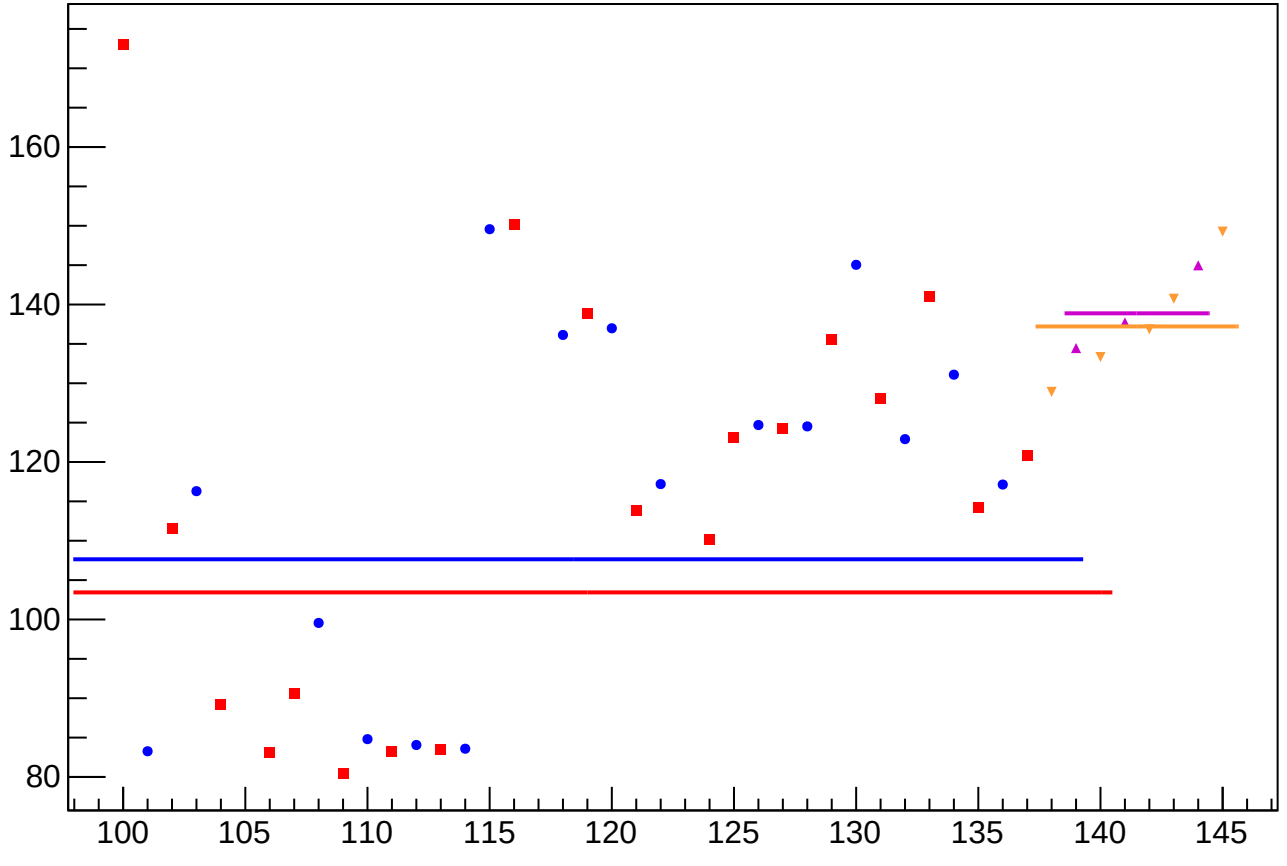
Right: -30.387+/-28.213 $\chi^2$/NDF: 57.0/34

In: -12.293+/-36.943 $\chi^2$/NDF:44.0/18

Out: 69.612+/-34.205 $\chi^2$/NDF:40.6/23

All: 31.807+/-25.099 $\chi^2$/NDF: 87.2/42

# cor_asym_sam6_rms vs Slug, Sign Corrected




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532822.8/15

Left Out: 137.216+/-0.051 $\chi^2$/NDF:19428.8/4

Right Out: 103.438+/-0.028 $\chi^2$/NDF: 624750.2/18

Left In: 138.881+/-0.061 $\chi^2$/NDF:5118.8/2

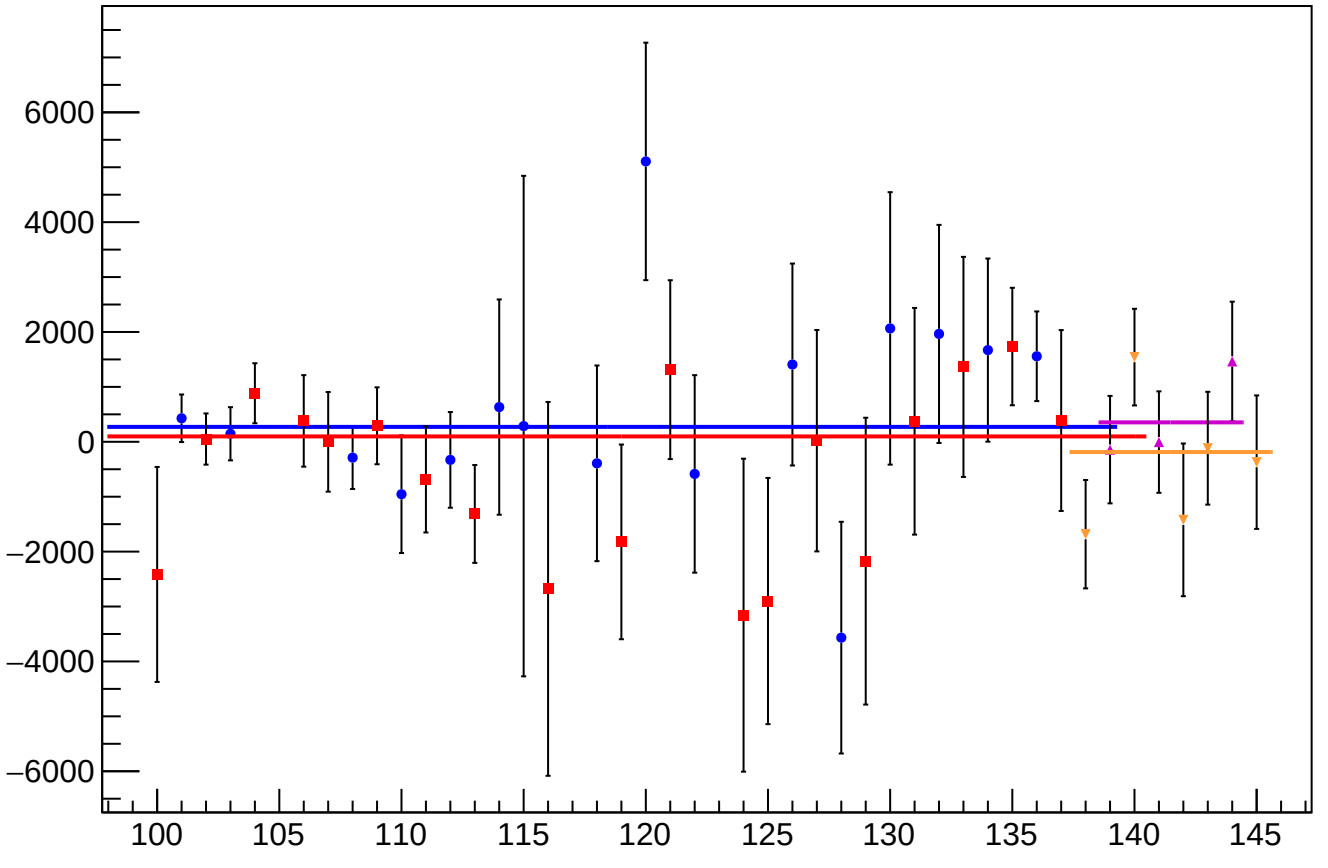
Left: 137.900+/-0.039 $\chi^2$/NDF: 24992.2/7

Right: 105.436+/-0.020 $\chi^2$/NDF: 1168660.2/34

In: 113.442+/-0.026 $\chi^2$/NDF:754088.9/18

Out: 111.148+/-0.024 $\chi^2$/NDF:987744.2/23

All: 112.207+/-0.018 $\chi^2$/NDF: 1745987.0/42




Right In: 271.645+/-230.655 $\chi^2$/NDF: 16.5/15

Left Out: -186.589+/-473.512 $\chi^2$/NDF:7.0/4

Right Out: 97.847+/-232.781 $\chi^2$/NDF: 16.1/18

Left In: 353.782+/-571.494 $\chi^2$/NDF:1.5/2

Left: 33.372+/-364.618 $\chi^2$/NDF: 9.0/7

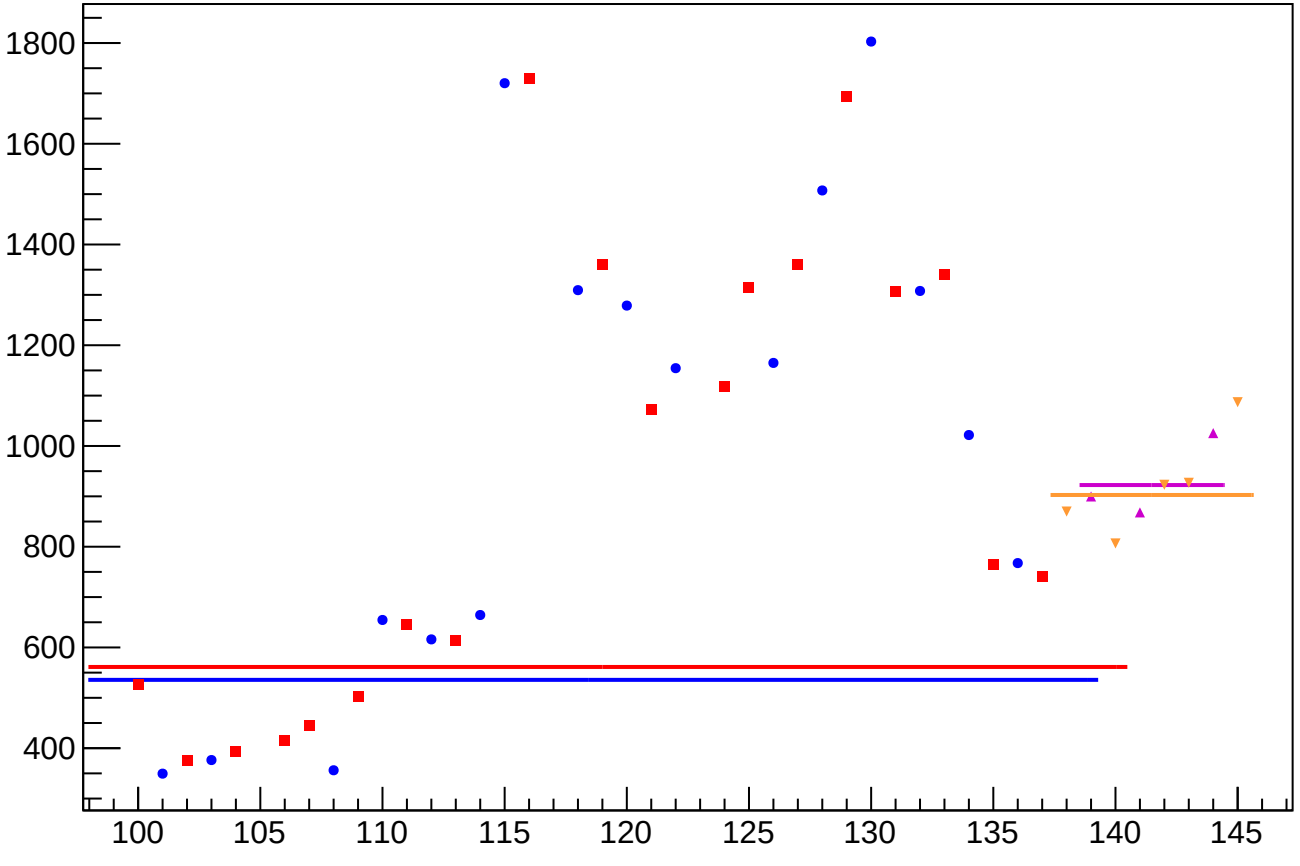
Right: 185.543+/-163.844 $\chi^2$/NDF: 32.9/34

In: 283.151+/-213.892 $\chi^2$/NDF:17.9/18

Out: 42.485+/-208.902 $\chi^2$/NDF:23.4/23

All: 159.978+/-149.449 $\chi^2$/NDF: 42.0/42

# asym_sam6_cor_correction_rms vs Slug, Sign Corrected




Right In: 535.661+/-0.163 $\chi^2$/NDF: 3632591.0/15

Left Out: 902.712+/-0.335 $\chi^2$/NDF:73598.1/4

Right Out: 561.270+/-0.165 $\chi^2$/NDF: 3130760.7/18

Left In: 922.437+/-0.404 $\chi^2$/NDF:25967.1/2

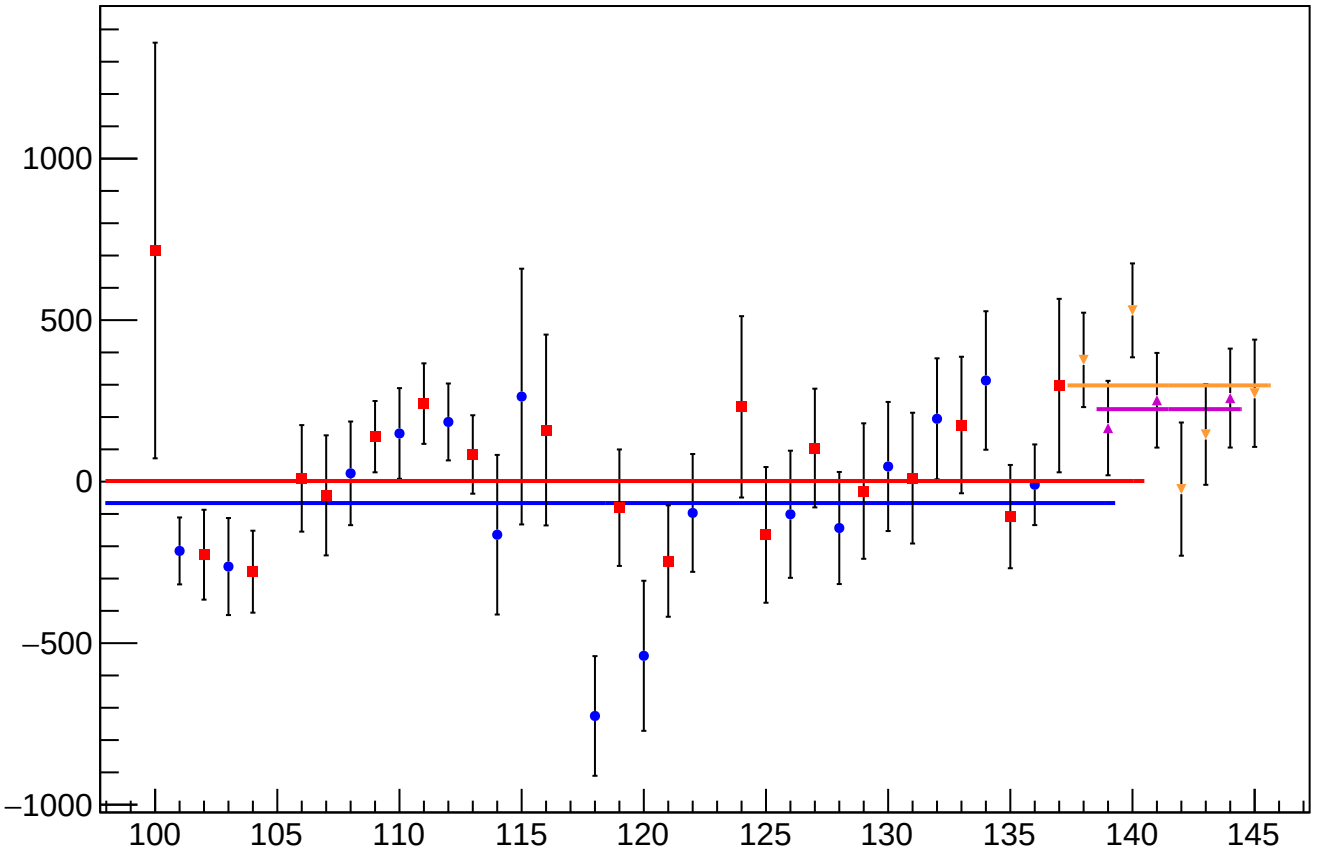
Left: 910.741+/-0.258 $\chi^2$/NDF: 100977.9/7

Right: 548.348+/-0.116 $\chi^2$/NDF: 6775564.7/34

In: 589.839+/-0.151 $\chi^2$/NDF:4446300.2/18

Out: 627.727+/-0.148 $\chi^2$/NDF:4041879.0/23

All: 609.230+/-0.106 $\chi^2$/NDF: 8520295.9/42




Right In: -66.256+/-40.937 $\chi^2$/NDF: 34.4/15

Left Out: 298.000+/-71.595 $\chi^2$/NDF:6.2/4

Right Out: 2.062+/-38.937 $\chi^2$/NDF: 21.1/18

Left In: 224.466+/-85.748 $\chi^2$/NDF:0.2/2

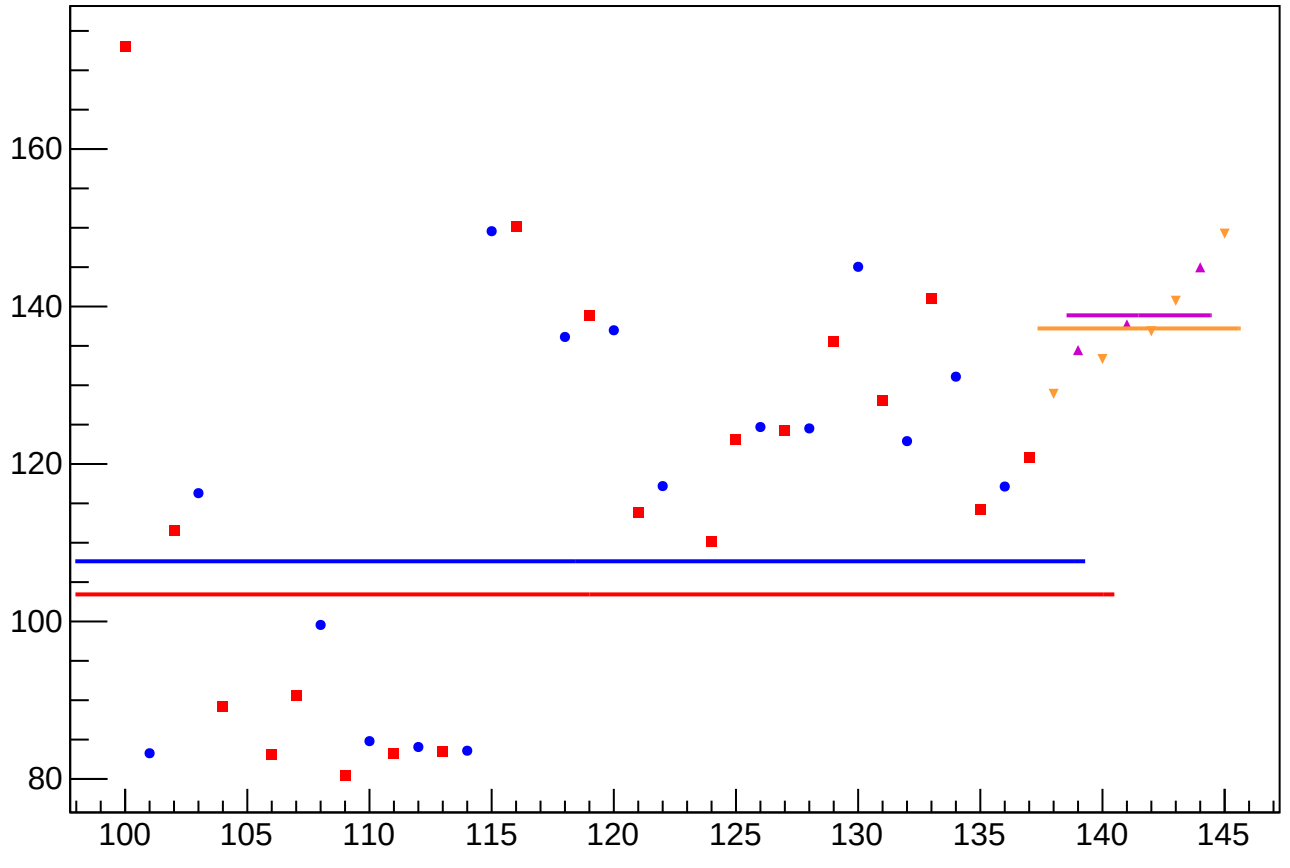
Left: 267.794+/-54.957 $\chi^2$/NDF: 6.9/7

Right: -30.387+/-28.213 $\chi^2$/NDF: 57.0/34

In: -12.293+/-36.943 $\chi^2$/NDF:44.0/18

Out: 69.612+/-34.205 $\chi^2$/NDF:40.6/23

All: 31.807+/-25.099 $\chi^2$/NDF: 87.2/42




Right In: 107.644+/-0.029 $\chi^2$/NDF: 532822.8/15

Left Out: 137.216+/-0.051 $\chi^2$/NDF:19428.8/4

Right Out: 103.438+/-0.028 $\chi^2$/NDF: 624750.2/18

Left In: 138.881+/-0.061 $\chi^2$/NDF:5118.8/2

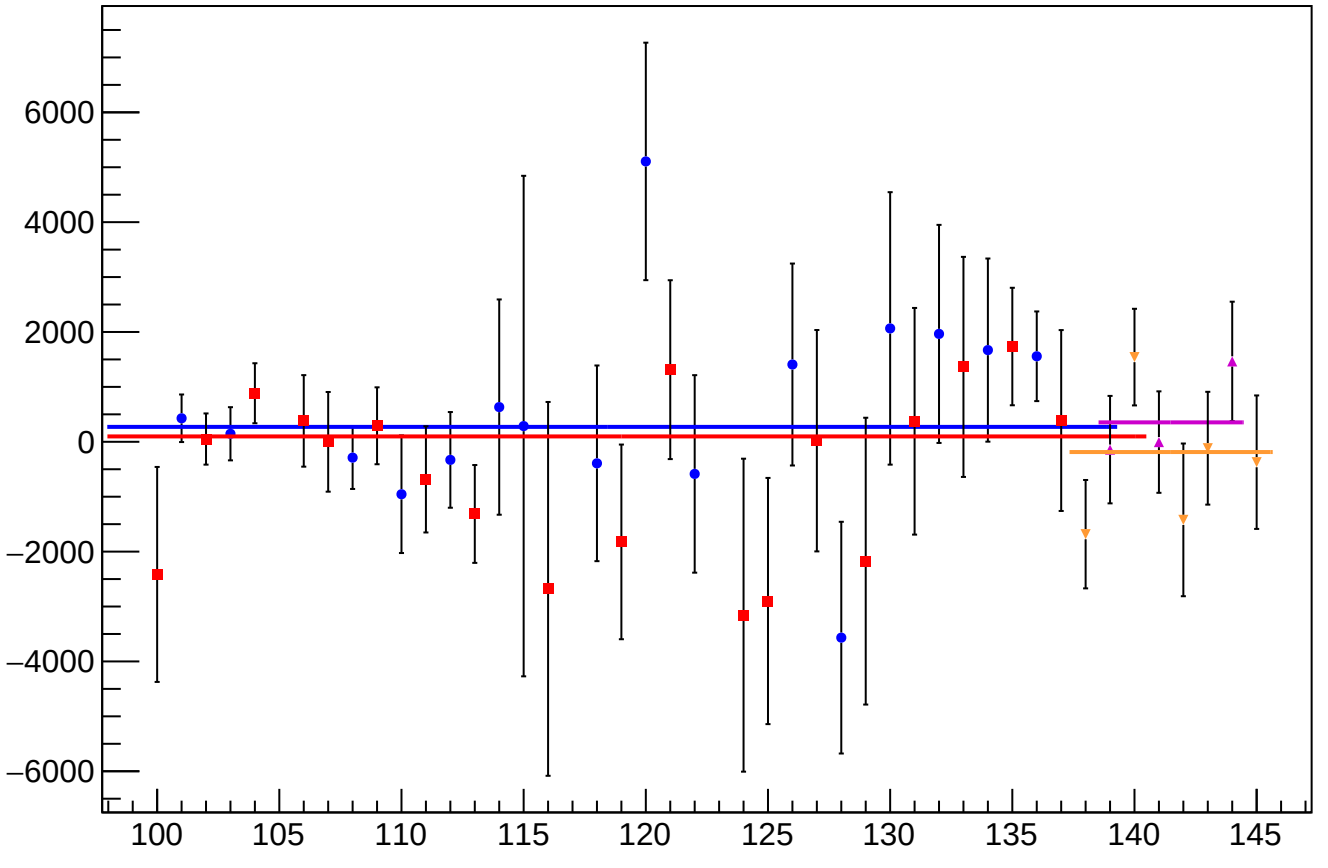
Left: 137.900+/-0.039 $\chi^2$/NDF: 24992.2/7

Right: 105.436+/-0.020 $\chi^2$/NDF: 1168660.2/34

In: 113.442+/-0.026 $\chi^2$/NDF:754088.9/18

Out: 111.148+/-0.024 $\chi^2$/NDF:987744.2/23

All: 112.207+/-0.018 $\chi^2$/NDF: 1745987.0/42




Right In: 271.645+/-230.655 $\chi^2$/NDF: 16.5/15

Left Out: -186.589+/-473.512 $\chi^2$/NDF:7.0/4

Right Out: 97.847+/-232.781 $\chi^2$/NDF: 16.1/18

Left In: 353.782+/-571.494 $\chi^2$/NDF:1.5/2

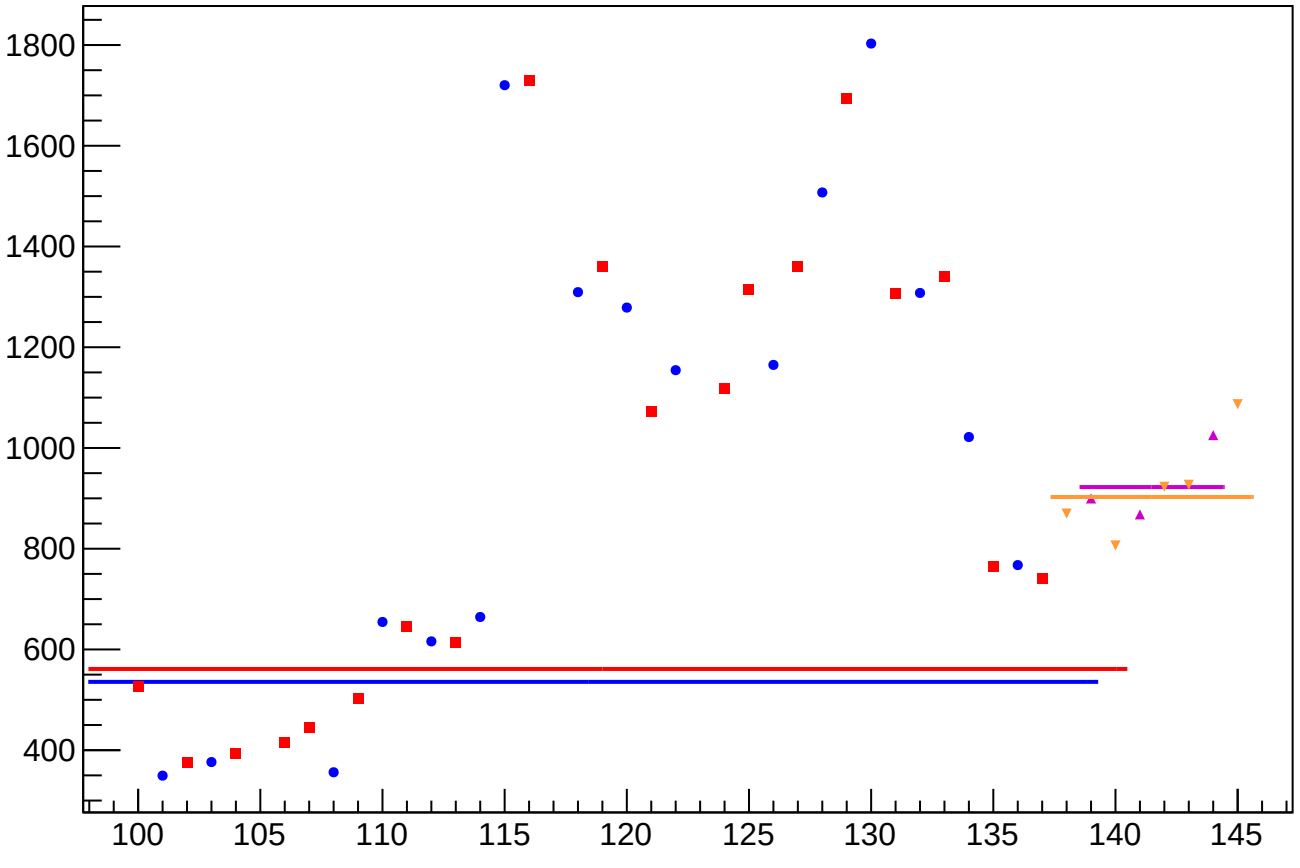
Left: 33.372+/-364.618 $\chi^2$/NDF: 9.0/7

Right: 185.543+/-163.844 $\chi^2$/NDF: 32.9/34

In: 283.151+/-213.892 $\chi^2$/NDF:17.9/18

Out: 42.485+/-208.902 $\chi^2$/NDF:23.4/23

All: 159.978+/-149.449 $\chi^2$/NDF: 42.0/42




Right In: 535.661+/-0.163 $\chi^2$/NDF: 3632591.0/15

Left Out: 902.712+/-0.335 $\chi^2$/NDF:73598.1/4

Right Out: 561.270+/-0.165 $\chi^2$/NDF: 3130760.7/18

Left In: 922.437+/-0.404 $\chi^2$/NDF:25967.1/2

Left: 910.741+/-0.258 $\chi^2$/NDF: 100977.9/7

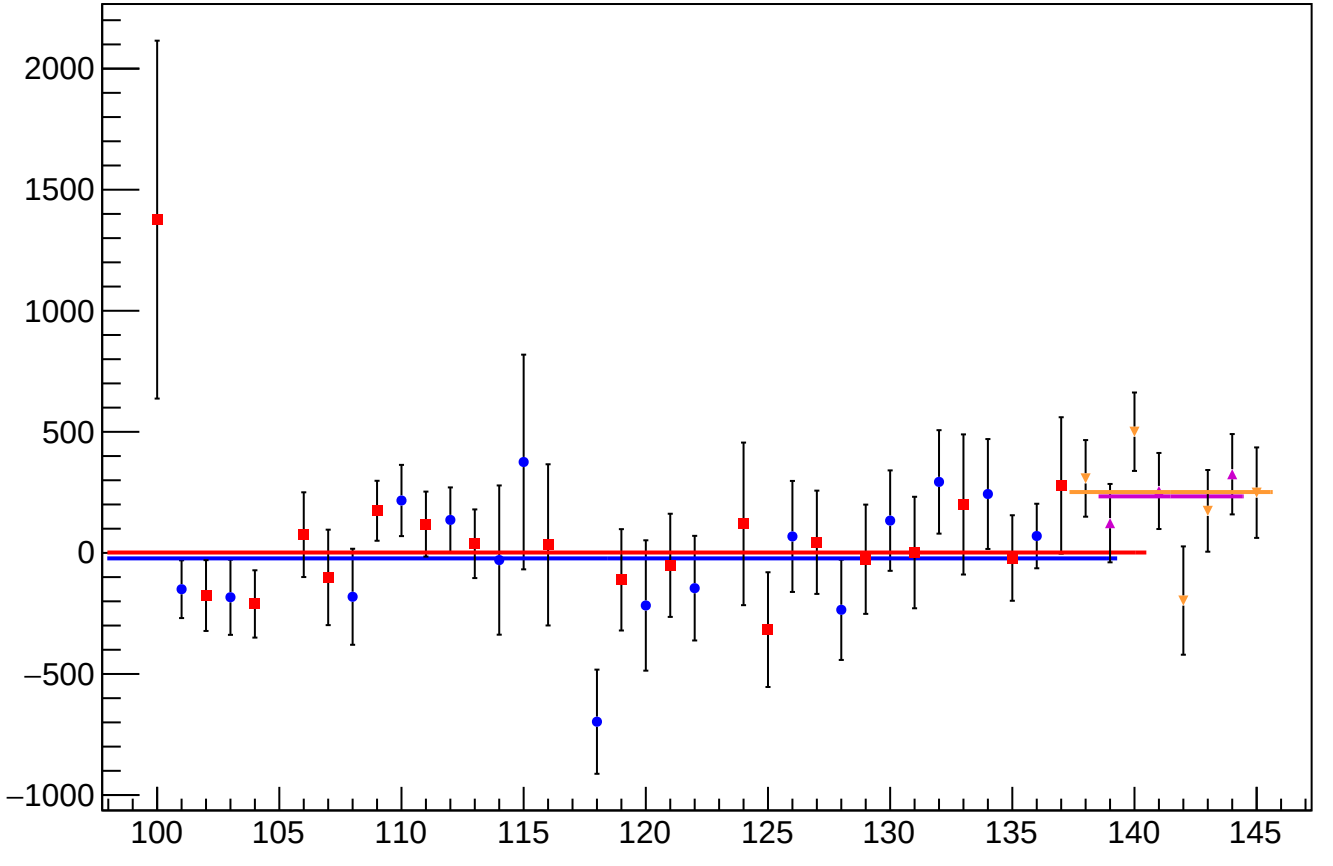
Right: 548.348+/-0.116 $\chi^2$/NDF: 6775564.7/34

In: 589.839+/-0.151 $\chi^2$/NDF:4446300.2/18

Out: 627.727+/-0.148 $\chi^2$/NDF:4041879.0/23

All: 609.230+/-0.106 $\chi^2$/NDF: 8520295.9/42

# dit_asym_sam6_mean vs Slug, Sign Corrected




Right In: -22.678+/-45.908 $\chi^2$/NDF: 24.2/15

Left Out: 251.336+/-78.604 $\chi^2$/NDF:6.7/4

Right Out: 1.600+/-43.563 $\chi^2$/NDF: 14.3/18

Left In: 233.504+/-93.239 $\chi^2$/NDF:0.8/2

Left: 243.927+/-60.097 $\chi^2$/NDF: 7.5/7

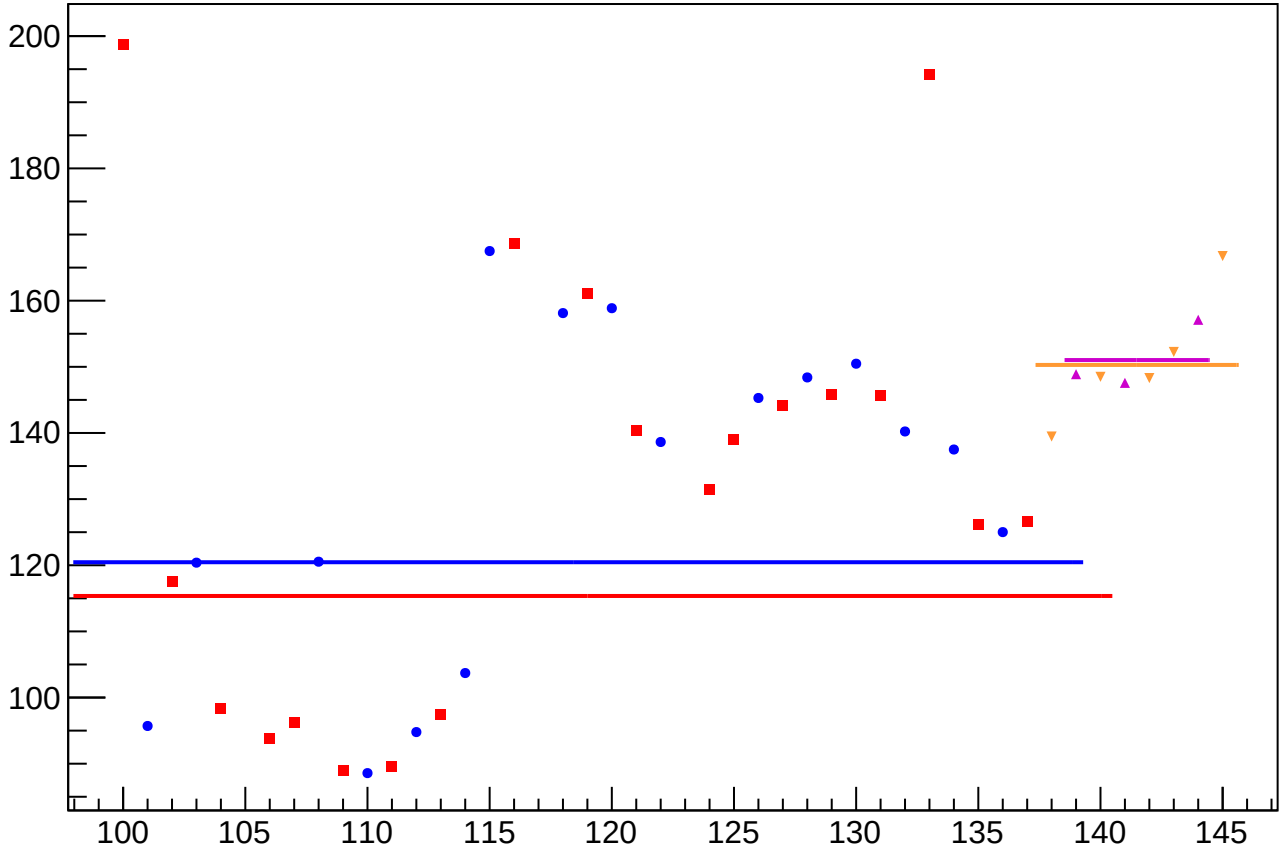
Right: -9.903+/-31.600 $\chi^2$/NDF: 38.6/34

In: 27.310+/-41.186 $\chi^2$/NDF:31.0/18

Out: 60.281+/-38.103 $\chi^2$/NDF:28.7/23

All: 45.076+/-27.969 $\chi^2$/NDF: 60.1/42

# dit_asym_sam6_rms vs Slug, Sign Corrected




Right In: 120.458+/-0.032 $\chi^2$/NDF: 530331.6/15

Left Out: 150.286+/-0.056 $\chi^2$/NDF:25556.7/4

Right Out: 115.357+/-0.031 $\chi^2$/NDF: 767236.0/18

Left In: 151.025+/-0.066 $\chi^2$/NDF:4004.3/2

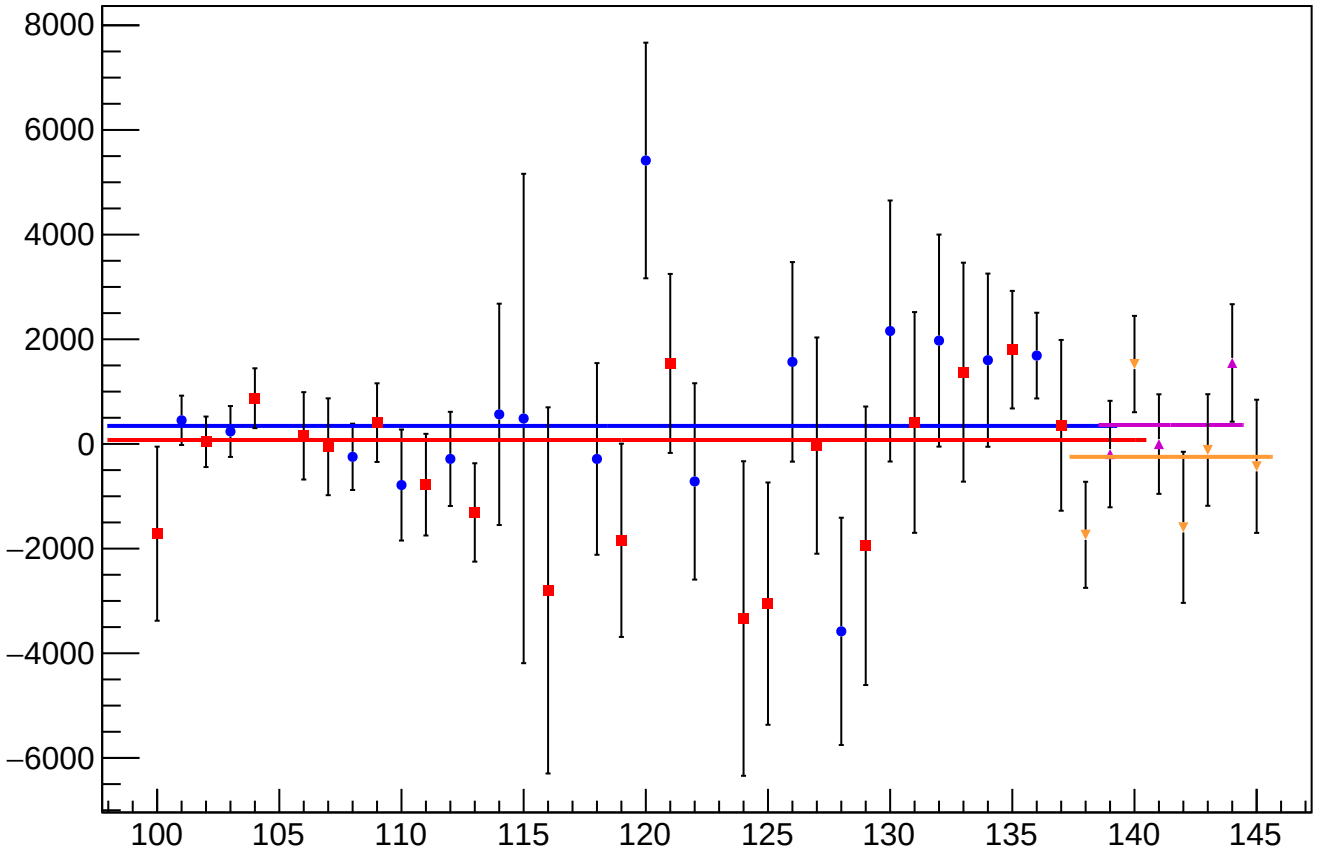
Left: 150.593+/-0.042 $\chi^2$/NDF: 29634.4/7

Right: 117.774+/-0.022 $\chi^2$/NDF: 1310562.3/34

In: 126.423+/-0.029 $\chi^2$/NDF:707343.7/18

Out: 123.564+/-0.027 $\chi^2$/NDF:1094917.9/23

All: 124.883+/-0.020 $\chi^2$/NDF: 1807452.0/42




Right In: 344.437+/-241.532 $\chi^2$/NDF: 16.2/15

Left Out: -246.861+/-492.049 $\chi^2$/NDF:6.8/4

Right Out: 75.434+/-240.479 $\chi^2$/NDF: 15.3/18

Left In: 362.436+/-590.854 $\chi^2$/NDF:1.6/2

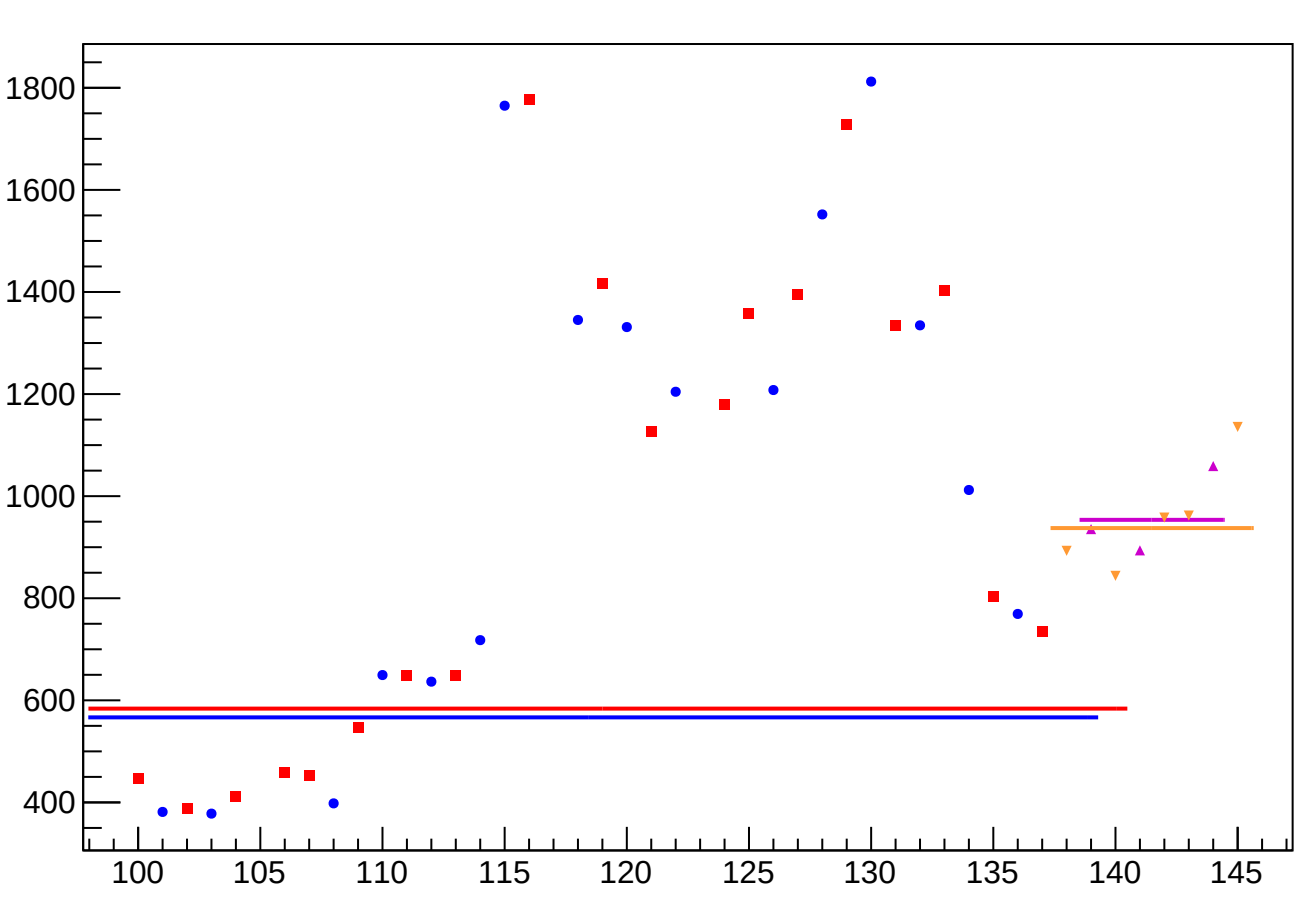
Left: 2.654+/-378.106 $\chi^2$/NDF: 9.0/7

Right: 209.348+/-170.415 $\chi^2$/NDF: 32.1/34

In: 347.014+/-223.573 $\chi^2$/NDF:17.8/18

Out: 13.294+/-216.056 $\chi^2$/NDF:22.4/23

All: 174.450+/-155.364 $\chi^2$/NDF: 41.3/42




Right In: 566.603+/-0.171 $\chi^2$/NDF: 3432440.2/15

Left Out: 937.471+/-0.348 $\chi^2$/NDF:74492.3/4

Right Out: 583.794+/-0.170 $\chi^2$/NDF: 3107513.6/18

Left In: 953.605+/-0.418 $\chi^2$/NDF:26149.7/2

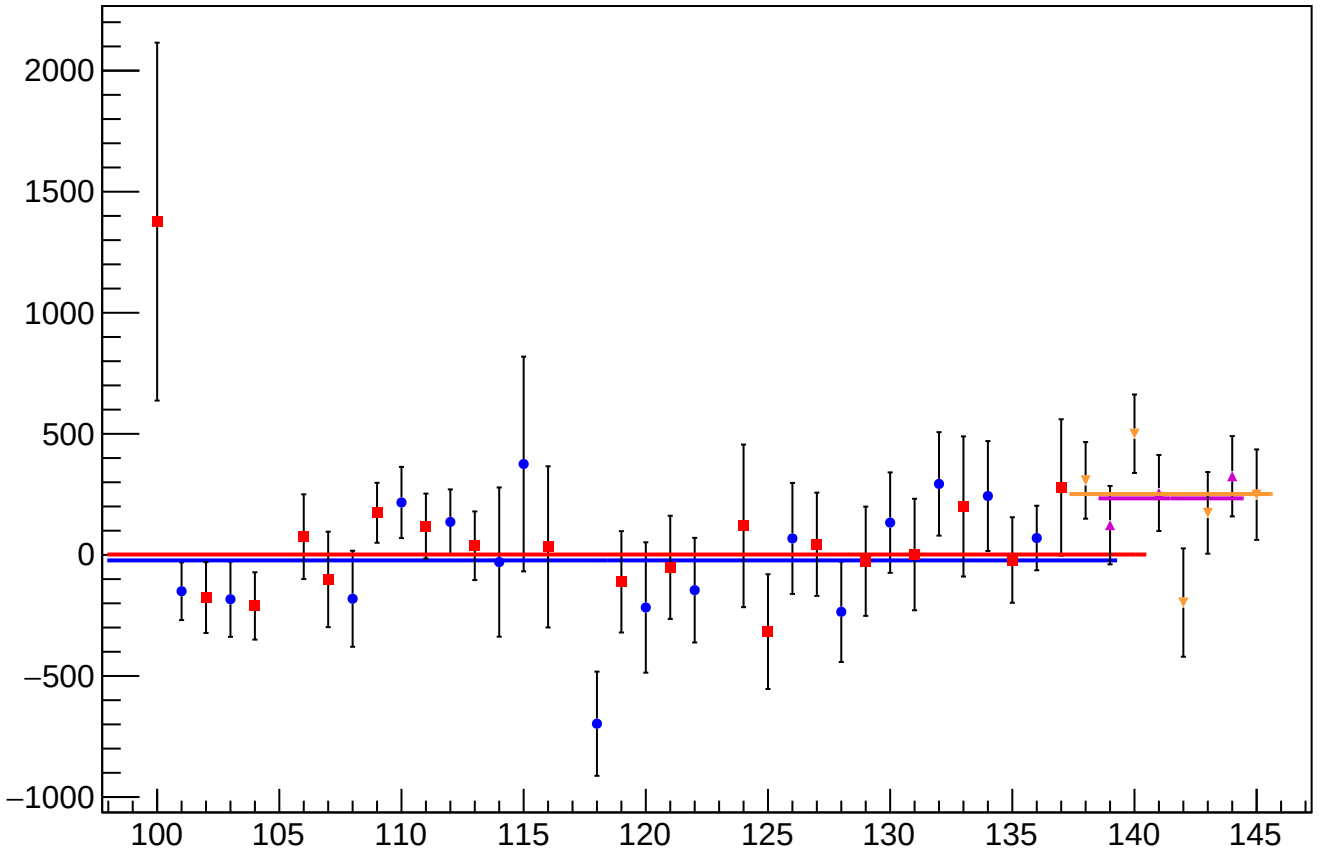
Left: 944.078+/-0.267 $\chi^2$/NDF: 101522.4/7

Right: 575.236+/-0.121 $\chi^2$/NDF: 6545041.6/34

In: 622.014+/-0.158 $\chi^2$/NDF:4193755.5/18

Out: 651.985+/-0.153 $\chi^2$/NDF:4016083.2/23

All: 637.511+/-0.110 $\chi^2$/NDF: 8228423.5/42




Right In: -22.680+/-45.908 $\chi^2$/NDF: 24.2/15

Left Out: 251.340+/-78.604 $\chi^2$/NDF:6.7/4

Right Out: 1.601+/-43.563 $\chi^2$/NDF: 14.3/18

Left In: 233.503+/-93.239 $\chi^2$/NDF:0.8/2

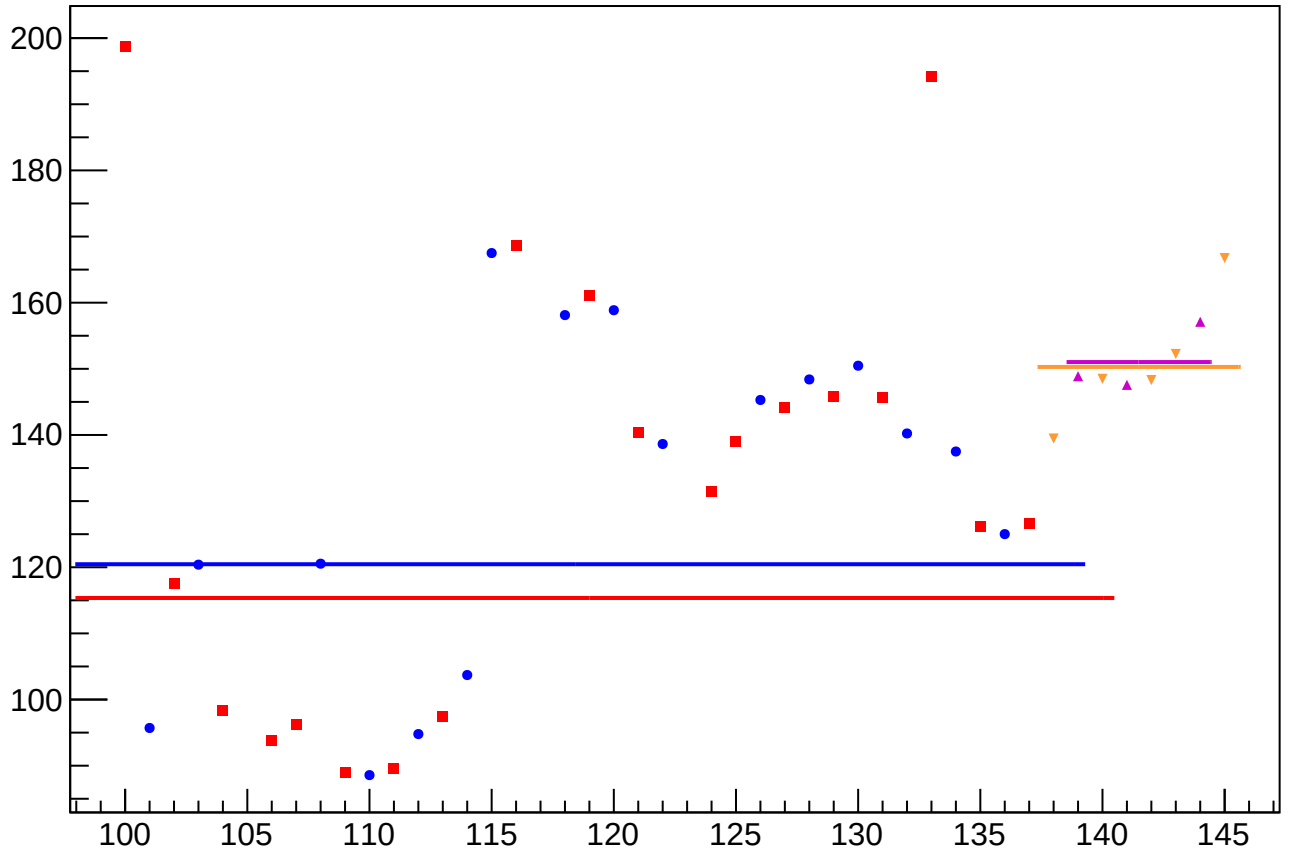
Left: 243.929+/-60.097 $\chi^2$/NDF: 7.5/7

Right: -9.903+/-31.600 $\chi^2$/NDF: 38.6/34

In: 27.308+/-41.186 $\chi^2$/NDF:31.0/18

Out: 60.283+/-38.103 $\chi^2$/NDF:28.7/23

All: 45.076+/-27.969 $\chi^2$/NDF: 60.1/42




Right In: 120.458+/-0.032 $\chi^2$/NDF: 530335.0/15

Left Out: 150.286+/-0.056 $\chi^2$/NDF:25555.8/4

Right Out: 115.357+/-0.031 $\chi^2$/NDF: 767234.8/18

Left In: 151.025+/-0.066 $\chi^2$/NDF:4004.3/2

Left: 150.593+/-0.042 $\chi^2$/NDF: 29633.7/7

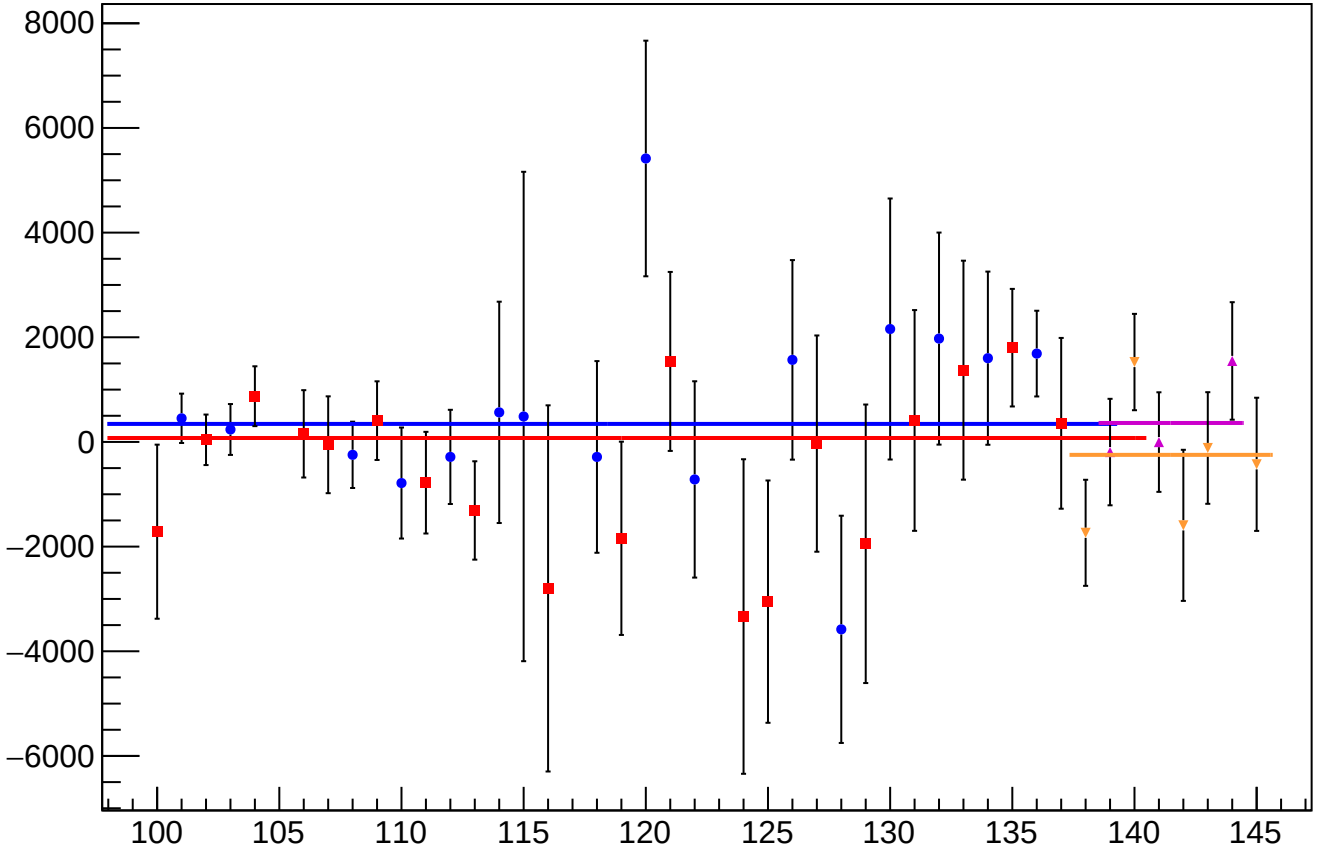
Right: 117.774+/-0.022 $\chi^2$/NDF: 1310564.2/34

In: 126.422+/-0.029 $\chi^2$/NDF:707348.4/18

Out: 123.564+/-0.027 $\chi^2$/NDF:1094916.2/23

All: 124.882+/-0.020 $\chi^2$/NDF: 1807454.8/42

asym_sam6_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 344.436+/-241.531 $\chi^2$/NDF: 16.2/15

Left Out: -246.855+/-492.049 $\chi^2$/NDF:6.8/4

Right Out: 75.435+/-240.479 $\chi^2$/NDF: 15.3/18

Left In: 362.434+/-590.853 $\chi^2$/NDF:1.6/2

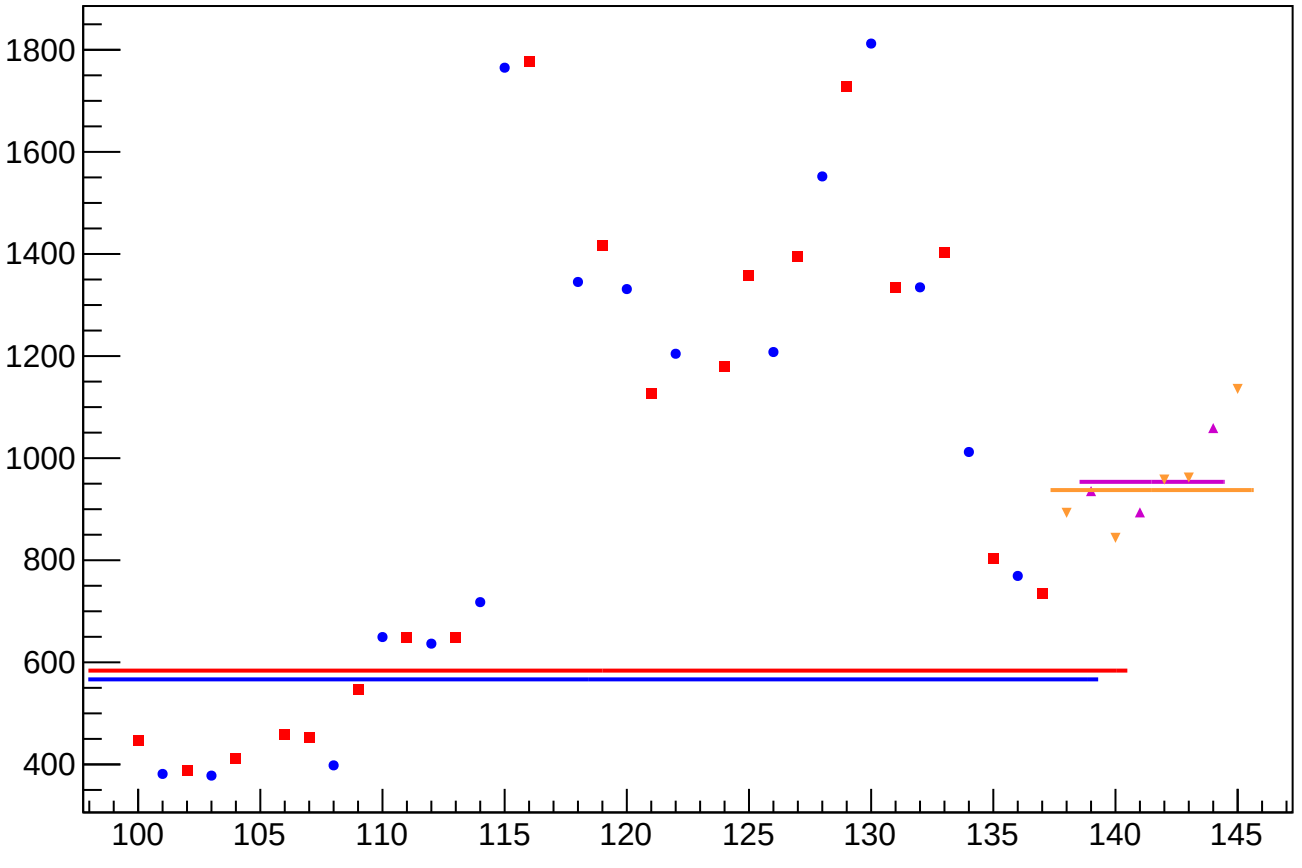
Left: 2.657+/-378.106 $\chi^2$/NDF: 9.0/7

Right: 209.348+/-170.415 $\chi^2$/NDF: 32.1/34

In: 347.013+/-223.573 $\chi^2$/NDF:17.8/18

Out: 13.296+/-216.056 $\chi^2$/NDF:22.4/23

All: 174.451+/-155.364 $\chi^2$/NDF: 41.3/42




Right In: 566.603+/-0.171 $\chi^2$/NDF: 3432444.7/15

Left Out: 937.470+/-0.348 $\chi^2$/NDF:74492.1/4

Right Out: 583.794+/-0.170 $\chi^2$/NDF: 3107513.8/18

Left In: 953.604+/-0.418 $\chi^2$/NDF:26150.2/2

Left: 944.077+/-0.267 $\chi^2$/NDF: 101522.9/7

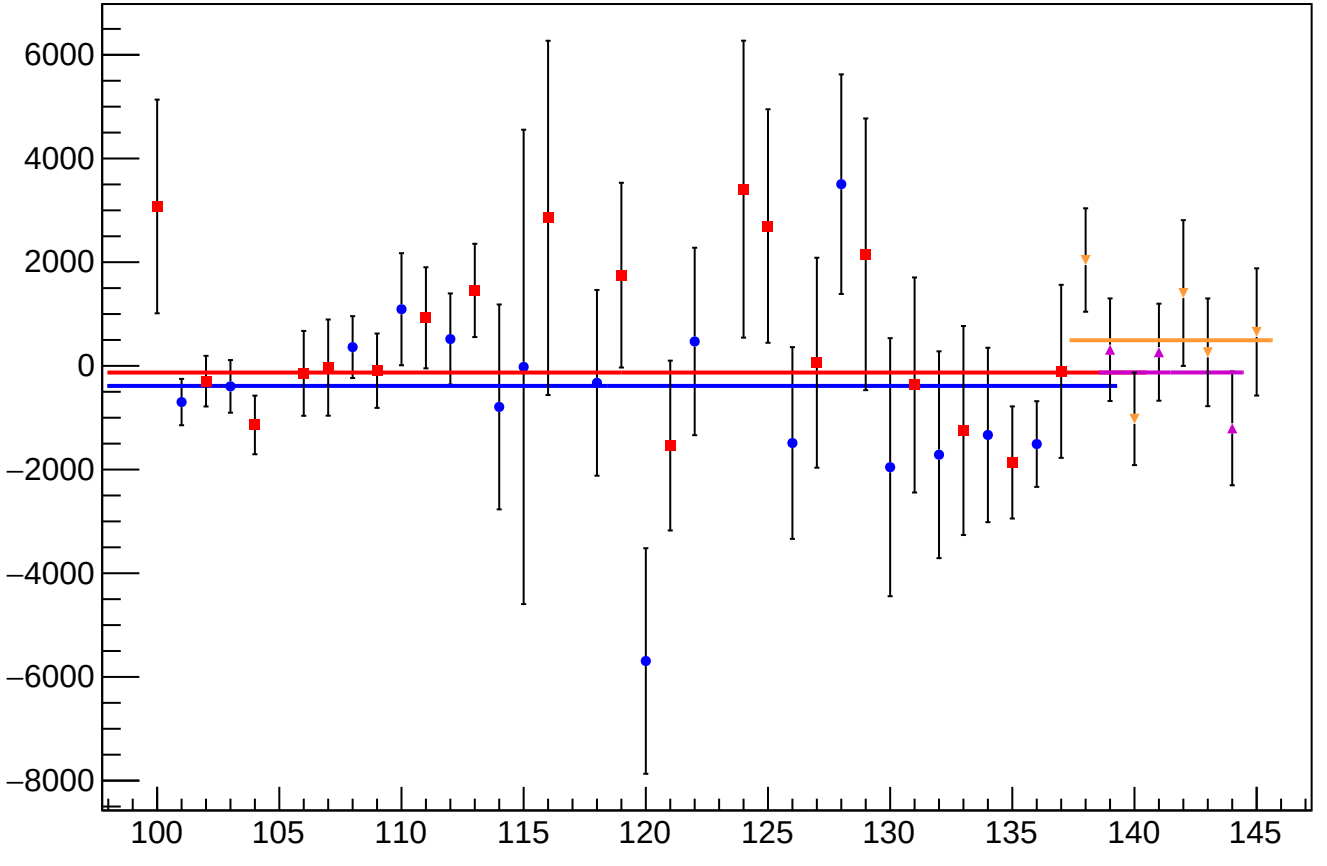
Right: 575.236+/-0.121 $\chi^2$/NDF: 6545046.5/34

In: 622.013+/-0.158 $\chi^2$/NDF:4193761.6/18

Out: 651.984+/-0.153 $\chi^2$/NDF:4016082.1/23

All: 637.511+/-0.110 $\chi^2$/NDF: 8228428.8/42

# asym_sam6_mean vs Slug, Sign Corrected




Right In: -386.522+/-237.525 $\chi^2$/NDF: 17.9/15

Left Out: 494.206+/-479.035 $\chi^2$/NDF:5.8/4

Right Out: -128.583+/-238.241 $\chi^2$/NDF: 19.4/18

Left In: -126.862+/-578.015 $\chi^2$/NDF:1.3/2

Left: 241.323+/-368.833 $\chi^2$/NDF: 7.8/7

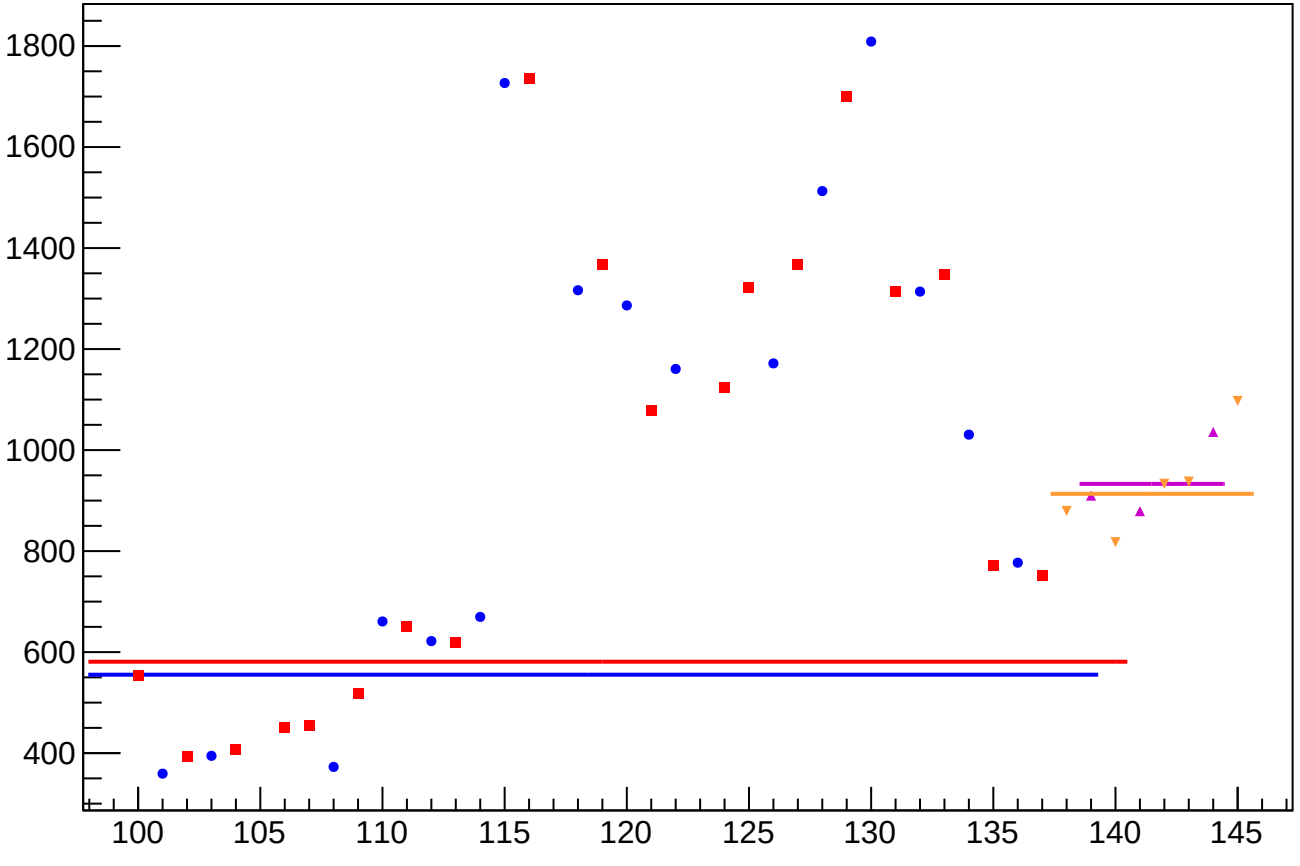
Right: -257.941+/-168.208 $\chi^2$/NDF: 37.9/34

In: -349.009+/-219.698 $\chi^2$/NDF:19.4/18

Out: -5.087+/-213.316 $\chi^2$/NDF:26.5/23

All: -171.980+/-153.044 $\chi^2$/NDF: 47.2/42

# asym_sam6_rms vs Slug, Sign Corrected




Right In: 555.292+/-0.168 $\chi^2$/NDF: 3482531.0/15

Left Out: 913.406+/-0.339 $\chi^2$/NDF:71823.8/4

Right Out: 580.996+/-0.168 $\chi^2$/NDF: 2983560.8/18

Left In: 933.076+/-0.409 $\chi^2$/NDF:25289.6/2

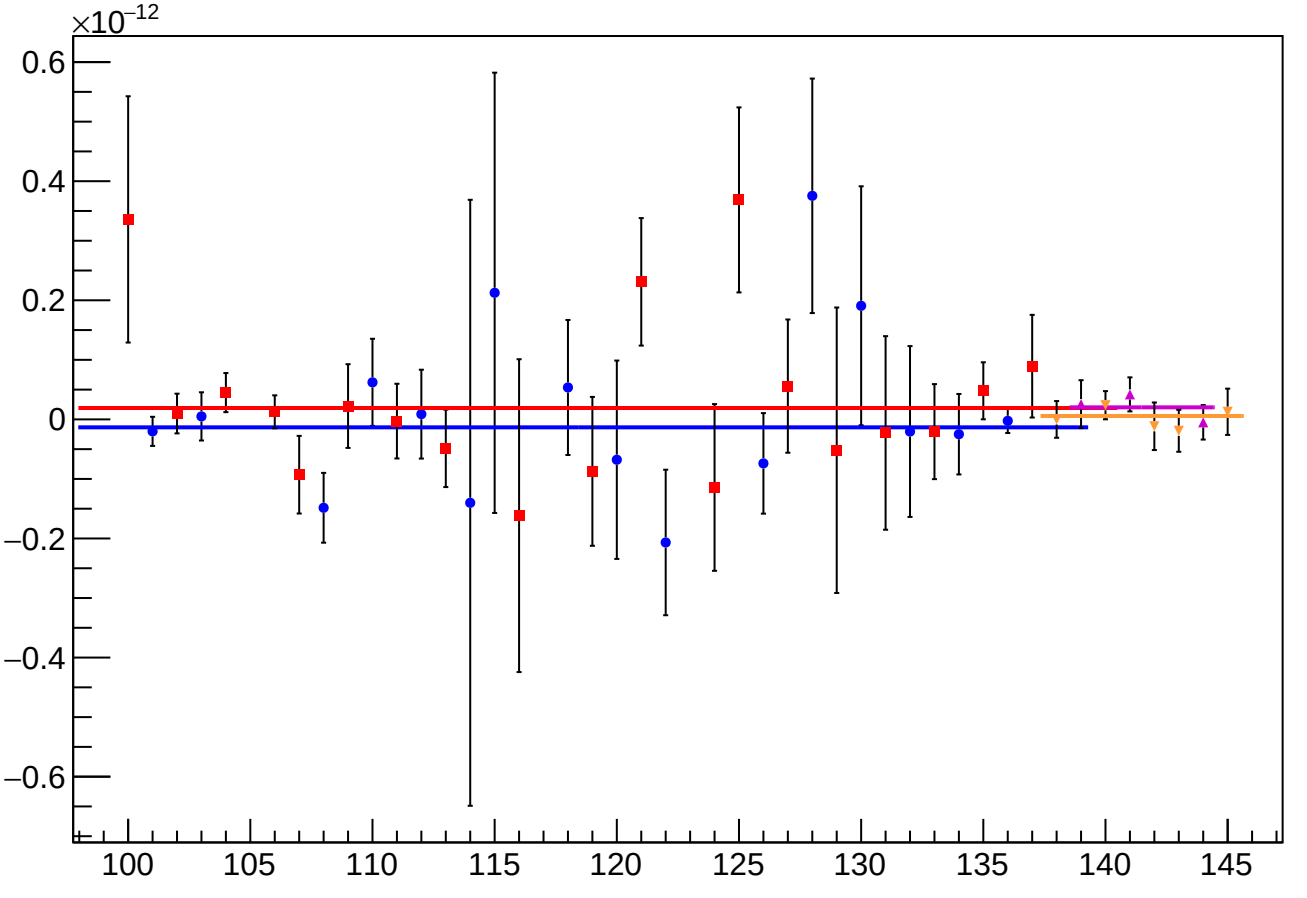
Left: 921.415+/-0.261 $\chi^2$/NDF: 98486.5/7

Right: 568.105+/-0.119 $\chi^2$/NDF: 6477767.0/34

In: 609.870+/-0.155 $\chi^2$/NDF:4238748.2/18

Out: 646.911+/-0.151 $\chi^2$/NDF:3827459.3/23

All: 628.936+/-0.108 $\chi^2$/NDF: 8095471.1/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/2

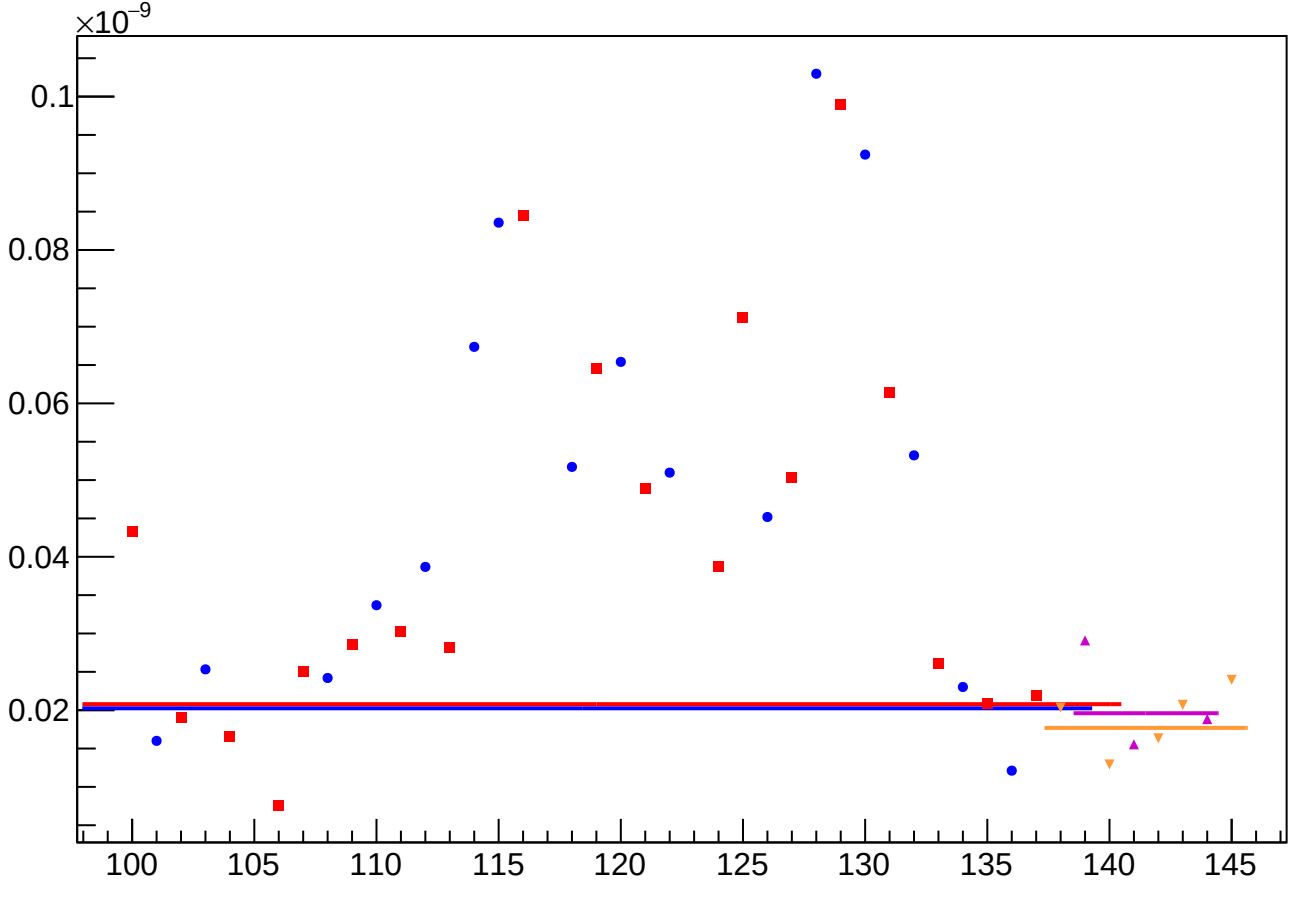
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.1/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.7/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:21.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 42.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2004678.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:164660.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1855885.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:153094.1/2

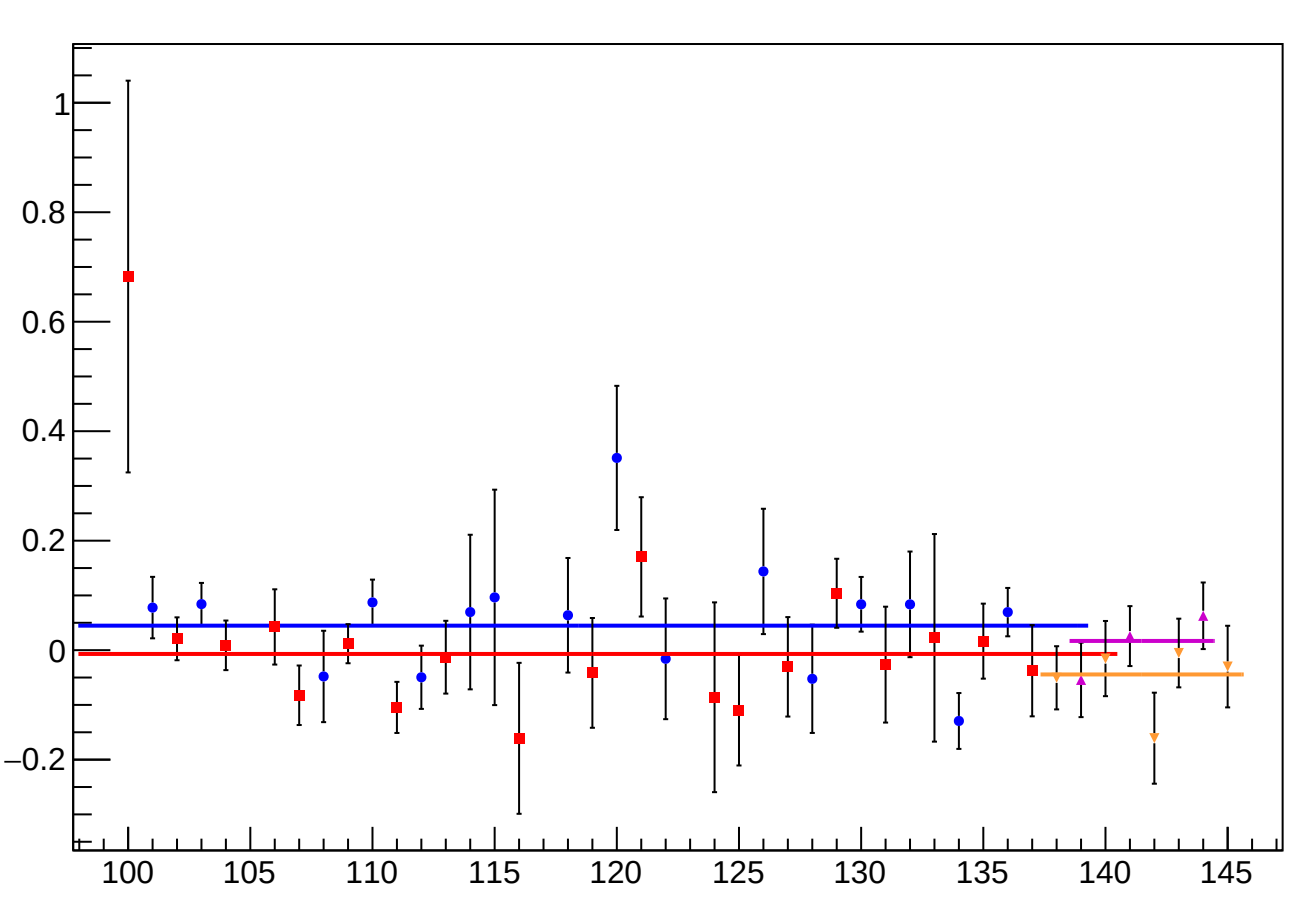
Left: 0.000+/-0.000 $\chi^2$/NDF: 331455.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3862189.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:2159438.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2068990.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4233753.8/42




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: -0.044+/-0.030 $\chi^2$/NDF:2.6/4

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: 0.017+/-0.035 $\chi^2$/NDF:1.7/2

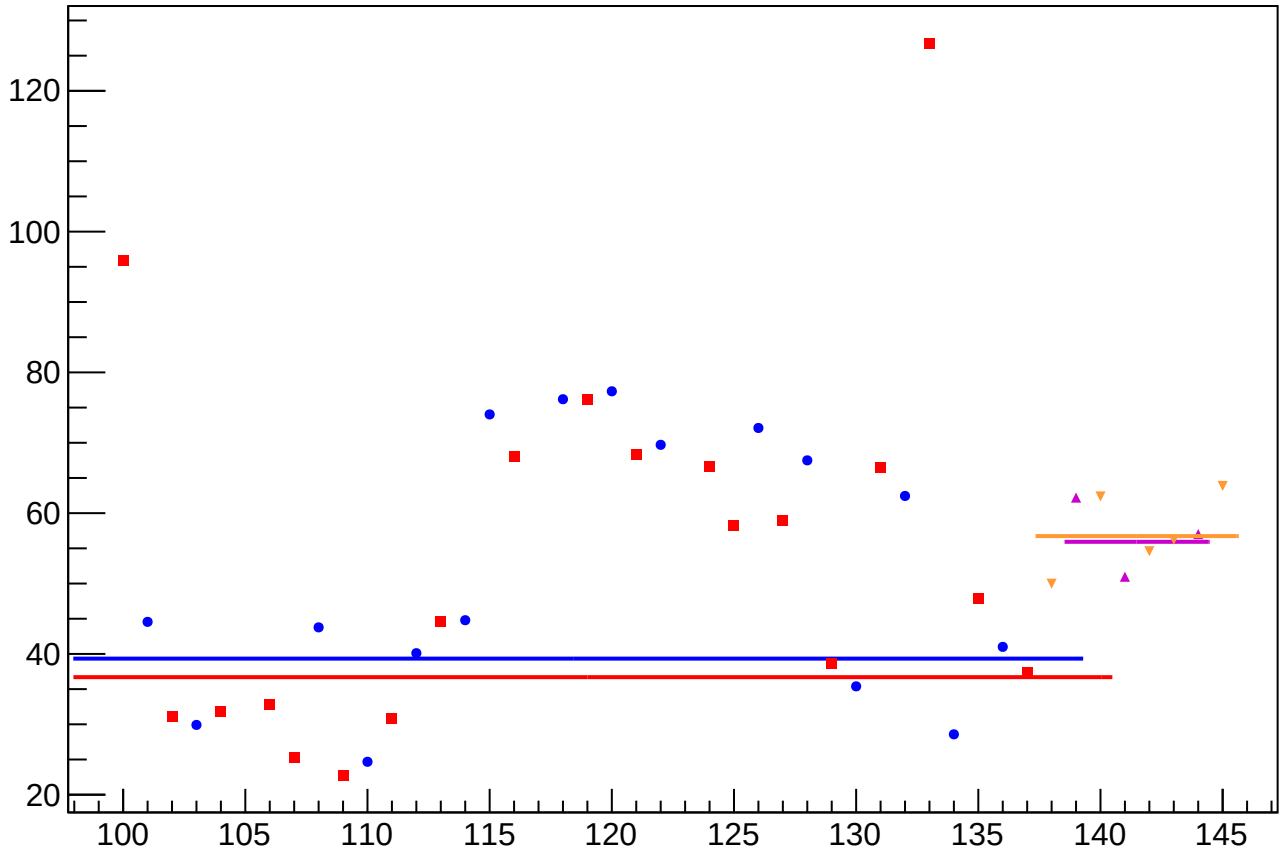
Left: -0.018+/-0.023 $\chi^2$/NDF: 6.0/7

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.040+/-0.015 $\chi^2$/NDF:28.8/18

Out: -0.014+/-0.014 $\chi^2$/NDF:24.0/23

All: 0.011+/-0.010 $\chi^2$/NDF: 60.3/42




Right In: 39.335+/-0.011 $\chi^2$/NDF: 1566525.1/15

Left Out: 56.741+/-0.021 $\chi^2$/NDF:60710.4/4

Right Out: 36.700+/-0.011 $\chi^2$/NDF: 2096756.0/18

Left In: 55.929+/-0.025 $\chi^2$/NDF:34139.8/2

Left: 56.393+/-0.016 $\chi^2$/NDF: 95467.8/7

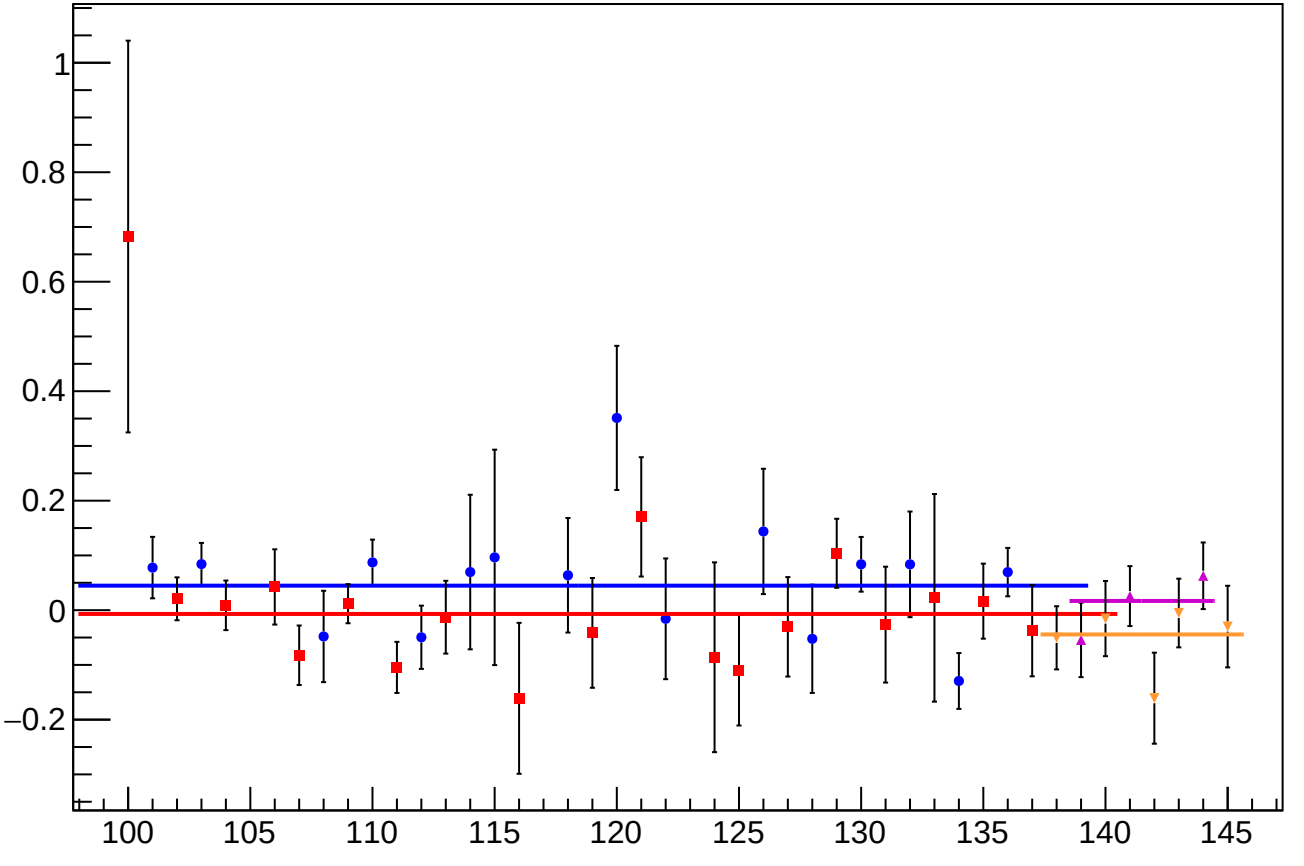
Right: 37.940+/-0.008 $\chi^2$/NDF: 3691907.9/34

In: 42.220+/-0.010 $\chi^2$/NDF:1973776.7/18

Out: 40.697+/-0.010 $\chi^2$/NDF:2859104.7/23

All: 41.402+/-0.007 $\chi^2$/NDF: 4844640.7/42

asym_sam6_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: -0.044+/-0.030 $\chi^2$/NDF:2.6/4

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: 0.017+/-0.035 $\chi^2$/NDF:1.7/2

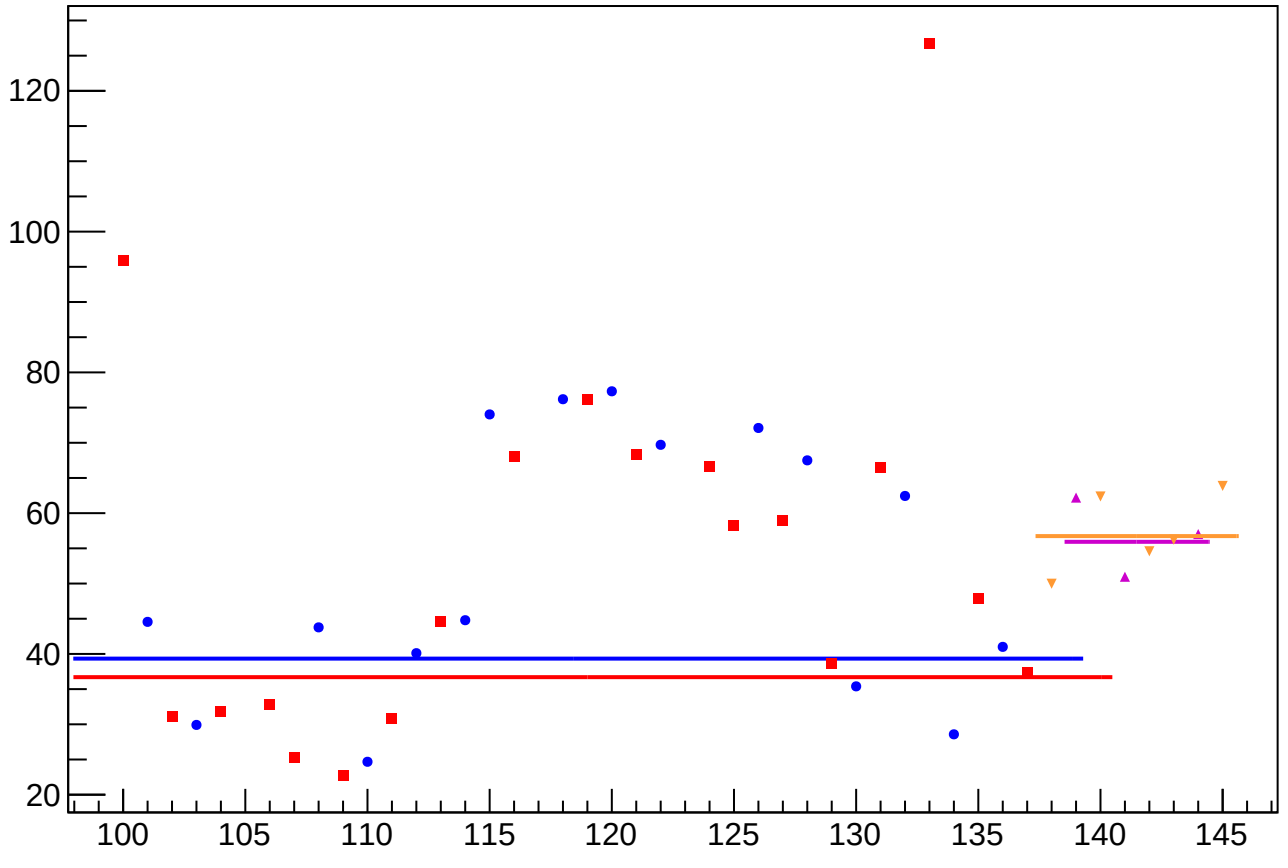
Left: -0.018+/-0.023 $\chi^2$/NDF: 6.0/7

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.040+/-0.015 $\chi^2$/NDF:28.8/18

Out: -0.014+/-0.014 $\chi^2$/NDF:24.0/23

All: 0.011+/-0.010 $\chi^2$/NDF: 60.3/42




Right In: 39.335+/-0.011 $\chi^2$/NDF: 1566525.1/15

Left Out: 56.741+/-0.021 $\chi^2$/NDF:60710.4/4

Right Out: 36.700+/-0.011 $\chi^2$/NDF: 2096756.0/18

Left In: 55.929+/-0.025 $\chi^2$/NDF:34139.8/2

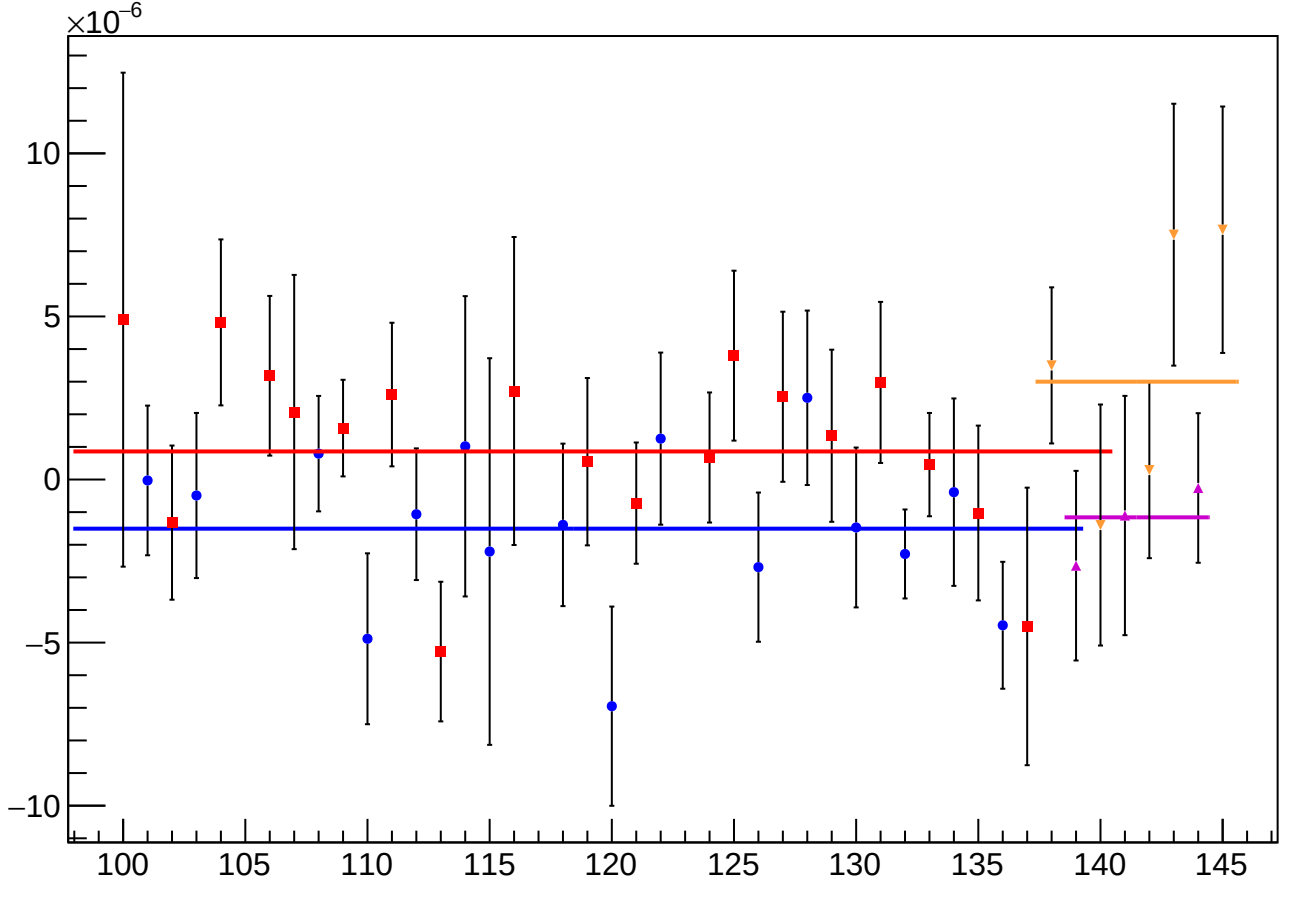
Left: 56.393+/-0.016 $\chi^2$/NDF: 95467.8/7

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691907.9/34

In: 42.220+/-0.010 $\chi^2$/NDF:1973776.7/18

Out: 40.697+/-0.010 $\chi^2$/NDF:2859104.7/23

All: 41.402+/-0.007 $\chi^2$/NDF: 4844640.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.1/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.4/2

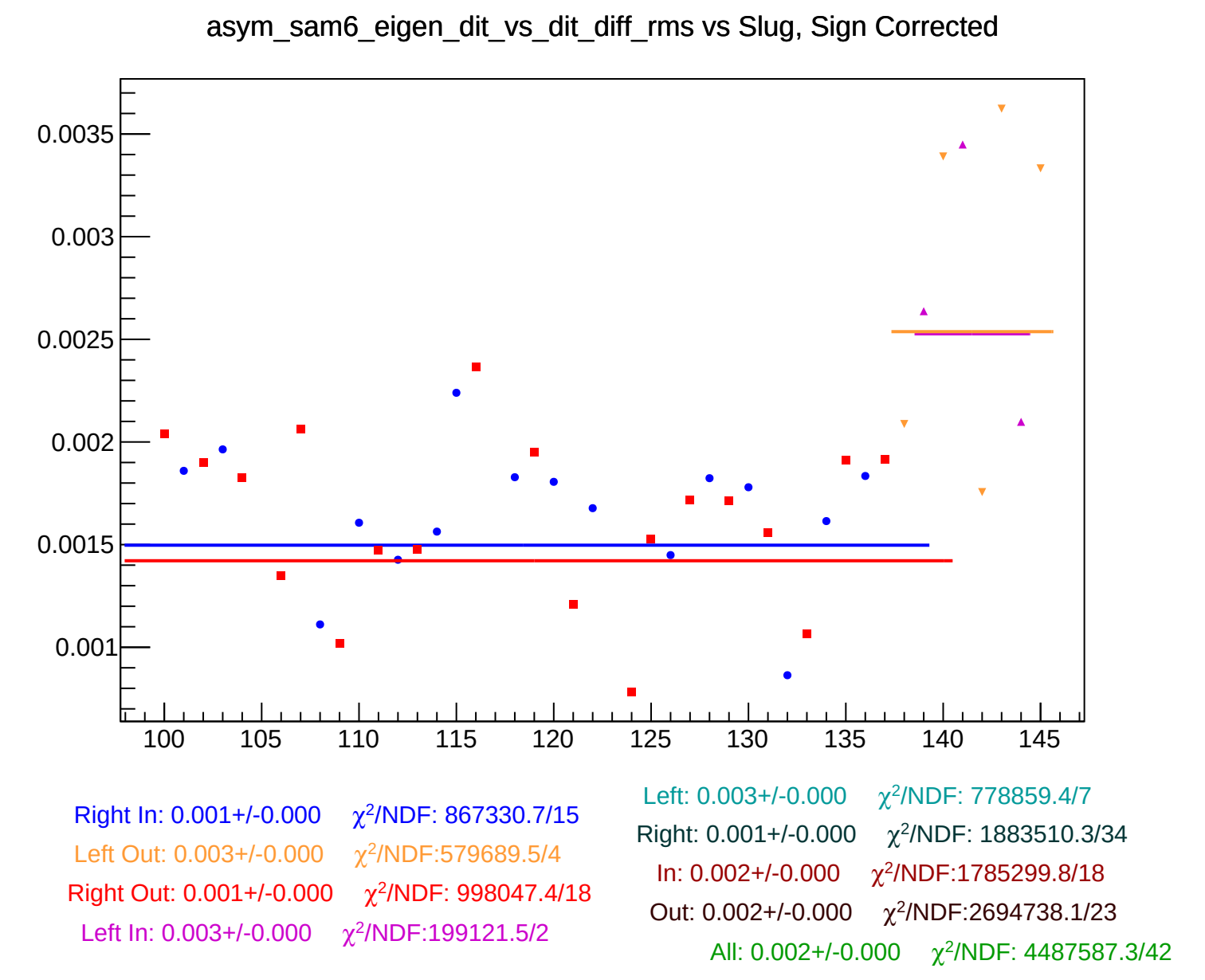
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.5/7

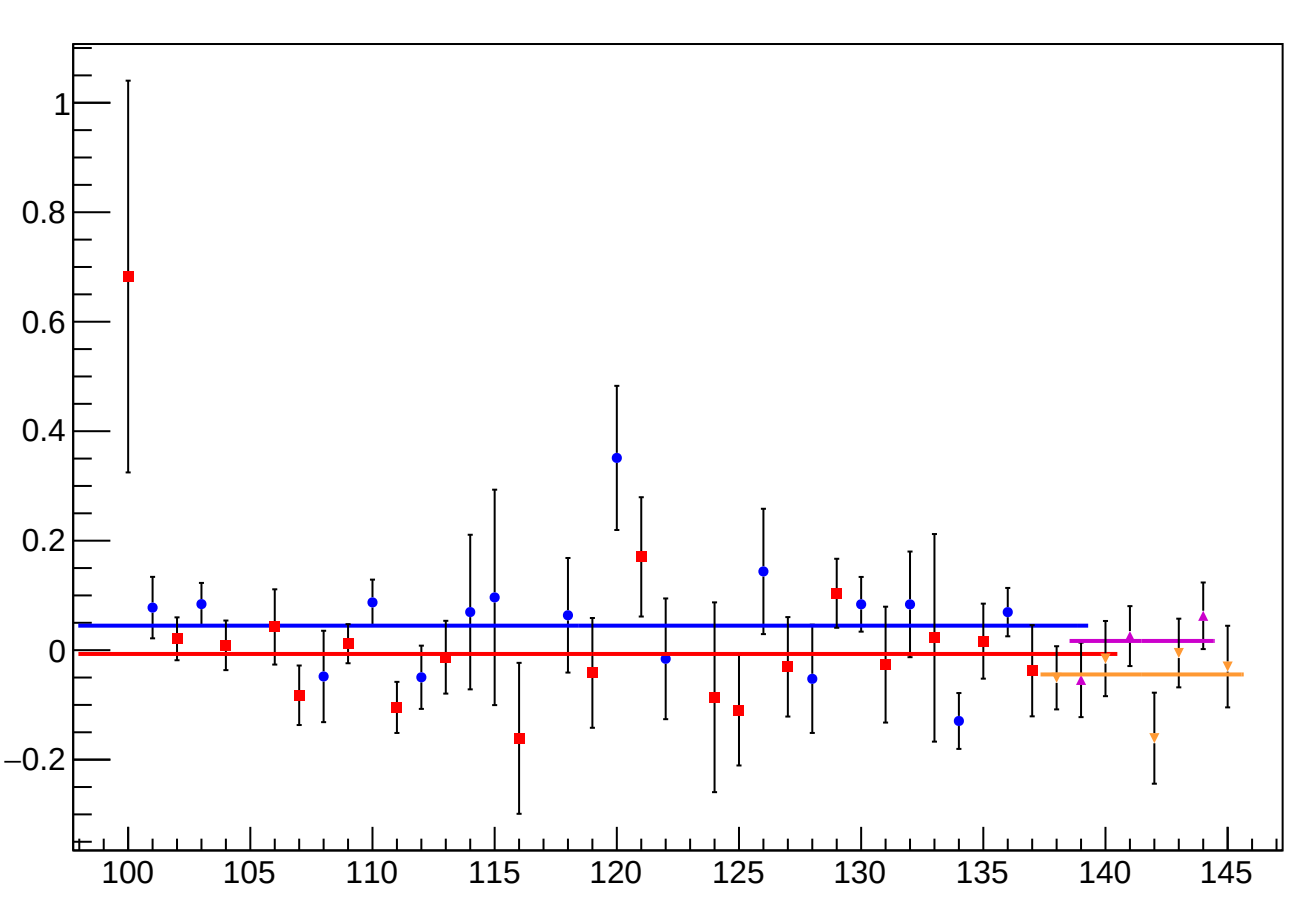
Right: -0.000+/-0.000 $\chi^2$/NDF: 41.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:14.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:26.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 53.0/42


asym_sam6_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0035
0.003
0.0025
0.002
0.0015
0.001
100
105
110
115
120
125
130
135
140
145
Right In: 0.001+/-0.000 χ²/NDF: 867330.7/15
Left Out: 0.003+/-0.000 χ²/NDF:579689.5/4
Right Out: 0.001+/-0.000 χ²/NDF: 998047.4/18
Left In: 0.003+/-0.000 χ²/NDF:199121.5/2
Left: 0.003+/-0.000 χ²/NDF: 778859.4/7
Right: 0.001+/-0.000 χ²/NDF: 1883510.3/34
In: 0.002+/-0.000 χ²/NDF:1785299.8/18
Out: 0.002+/-0.000 χ²/NDF:2694738.1/23
All: 0.002+/-0.000 χ²/NDF: 4487587.3/42




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: -0.044+/-0.030 $\chi^2$/NDF:2.6/4

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: 0.017+/-0.035 $\chi^2$/NDF:1.7/2

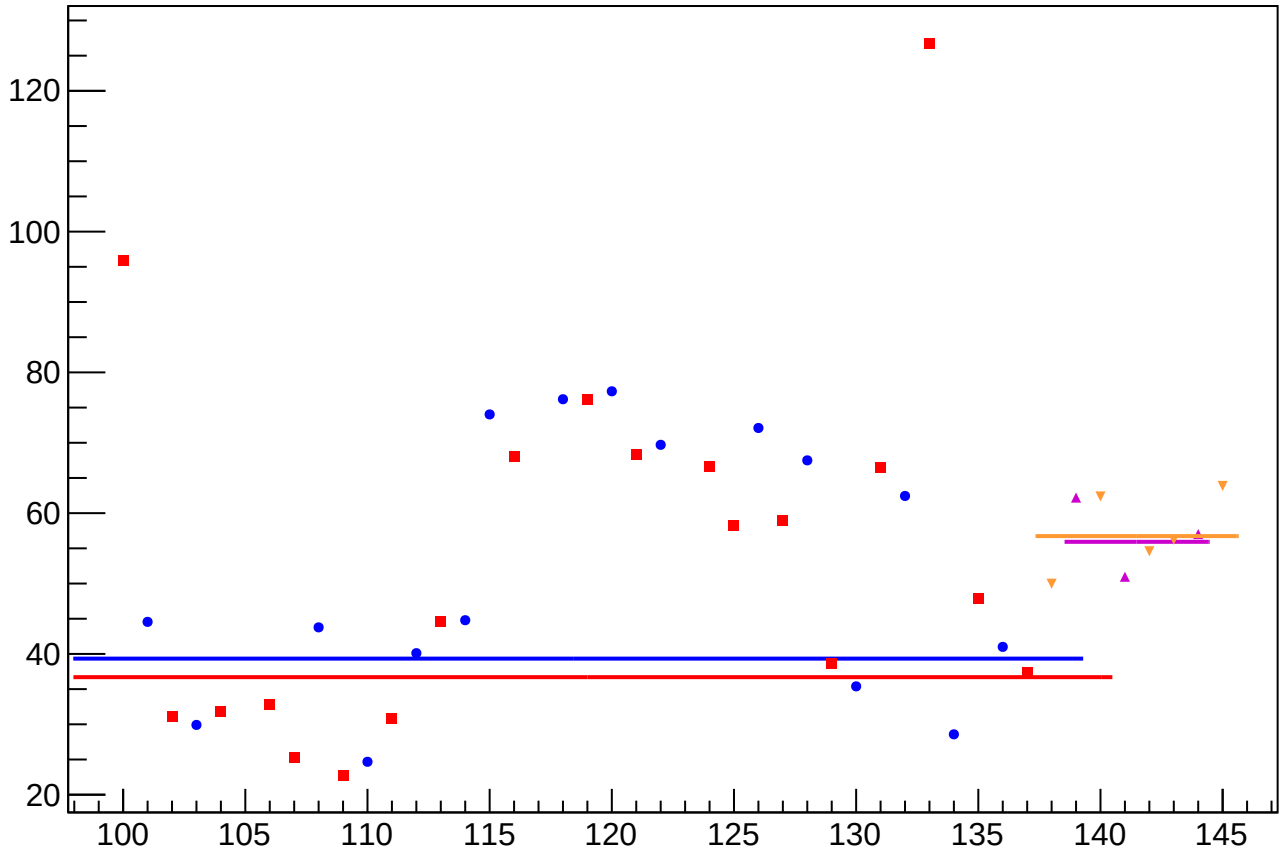
Left: -0.018+/-0.023 $\chi^2$/NDF: 6.0/7

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.040+/-0.015 $\chi^2$/NDF:28.8/18

Out: -0.014+/-0.014 $\chi^2$/NDF:24.0/23

All: 0.011+/-0.010 $\chi^2$/NDF: 60.3/42




Right In: 39.334+/-0.011 $\chi^2$/NDF: 1566545.4/15

Left Out: 56.740+/-0.021 $\chi^2$/NDF:60700.6/4

Right Out: 36.699+/-0.011 $\chi^2$/NDF: 2096748.4/18

Left In: 55.928+/-0.025 $\chi^2$/NDF:34146.3/2

Left: 56.392+/-0.016 $\chi^2$/NDF: 95464.5/7

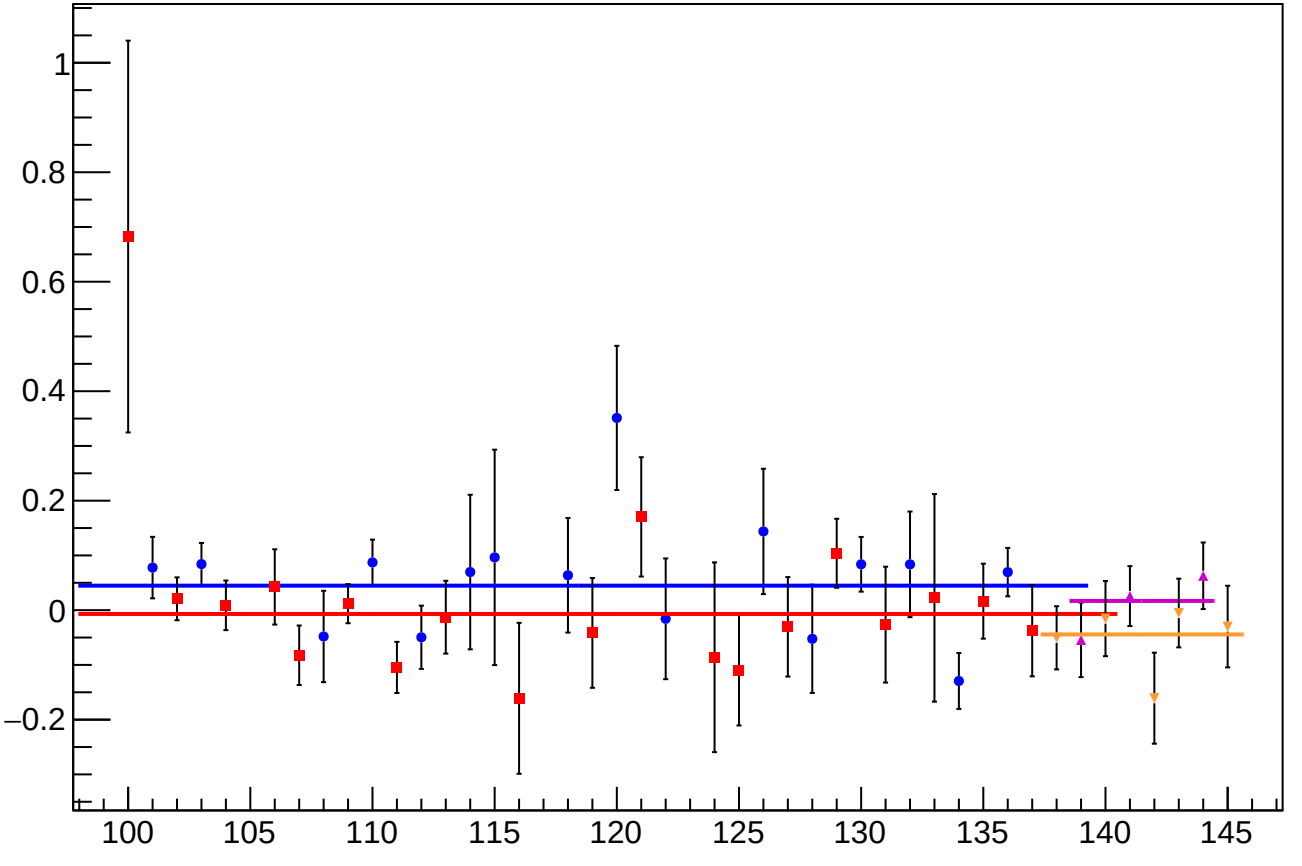
Right: 37.940+/-0.008 $\chi^2$/NDF: 3691915.1/34

In: 42.220+/-0.010 $\chi^2$/NDF:1973807.5/18

Out: 40.696+/-0.010 $\chi^2$/NDF:2859077.2/23

All: 41.402+/-0.007 $\chi^2$/NDF: 4844640.3/42

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.045+/-0.016 $\chi^2$/NDF: 26.6/15

Left Out: -0.044+/-0.030 $\chi^2$/NDF:2.6/4

Right Out: -0.007+/-0.015 $\chi^2$/NDF: 20.2/18

Left In: 0.017+/-0.035 $\chi^2$/NDF:1.7/2

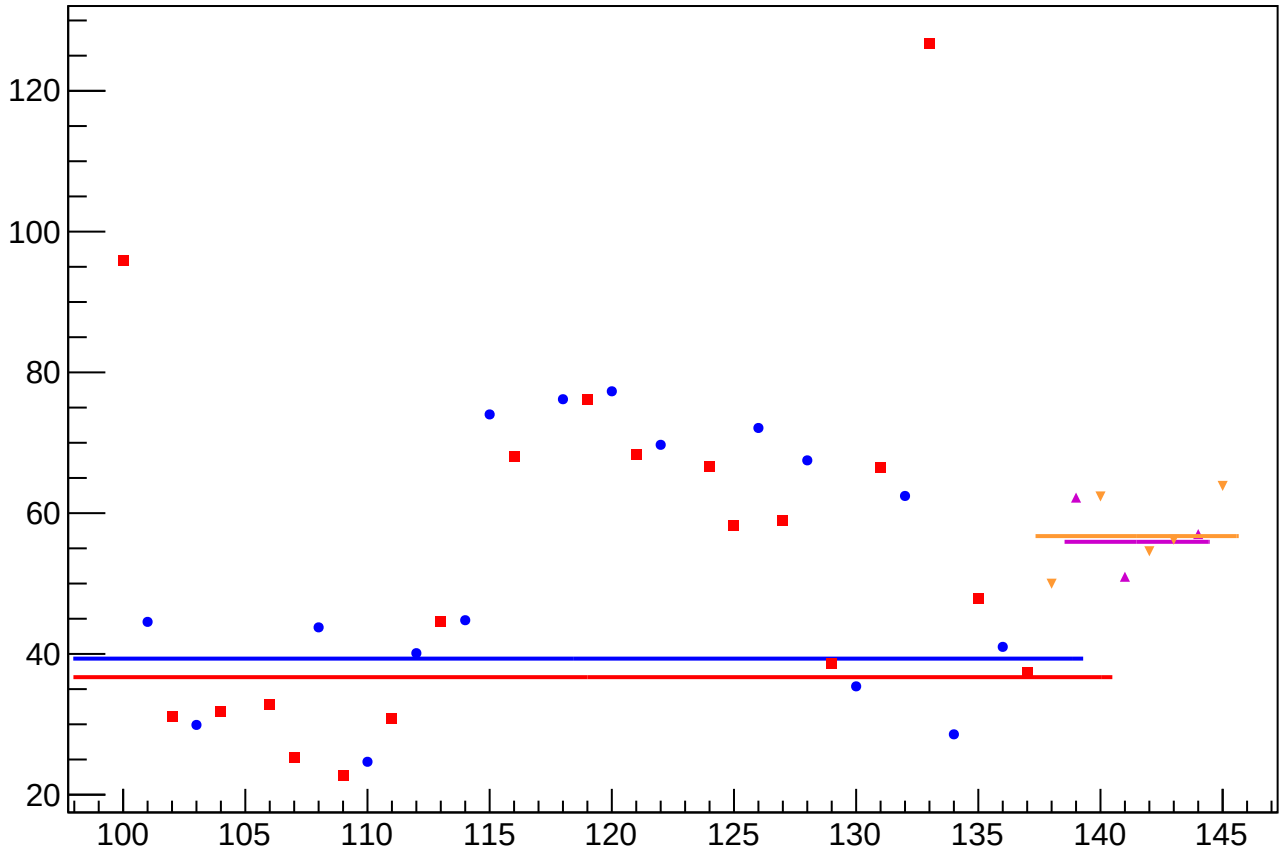
Left: -0.018+/-0.023 $\chi^2$/NDF: 6.0/7

Right: 0.017+/-0.011 $\chi^2$/NDF: 52.3/34

In: 0.040+/-0.015 $\chi^2$/NDF:28.8/18

Out: -0.014+/-0.014 $\chi^2$/NDF:24.0/23

All: 0.011+/-0.010 $\chi^2$/NDF: 60.3/42




Right In: 39.334+/-0.011 $\chi^2$/NDF: 1566545.4/15

Left Out: 56.740+/-0.021 $\chi^2$/NDF:60700.6/4

Right Out: 36.699+/-0.011 $\chi^2$/NDF: 2096748.4/18

Left In: 55.928+/-0.025 $\chi^2$/NDF:34146.3/2

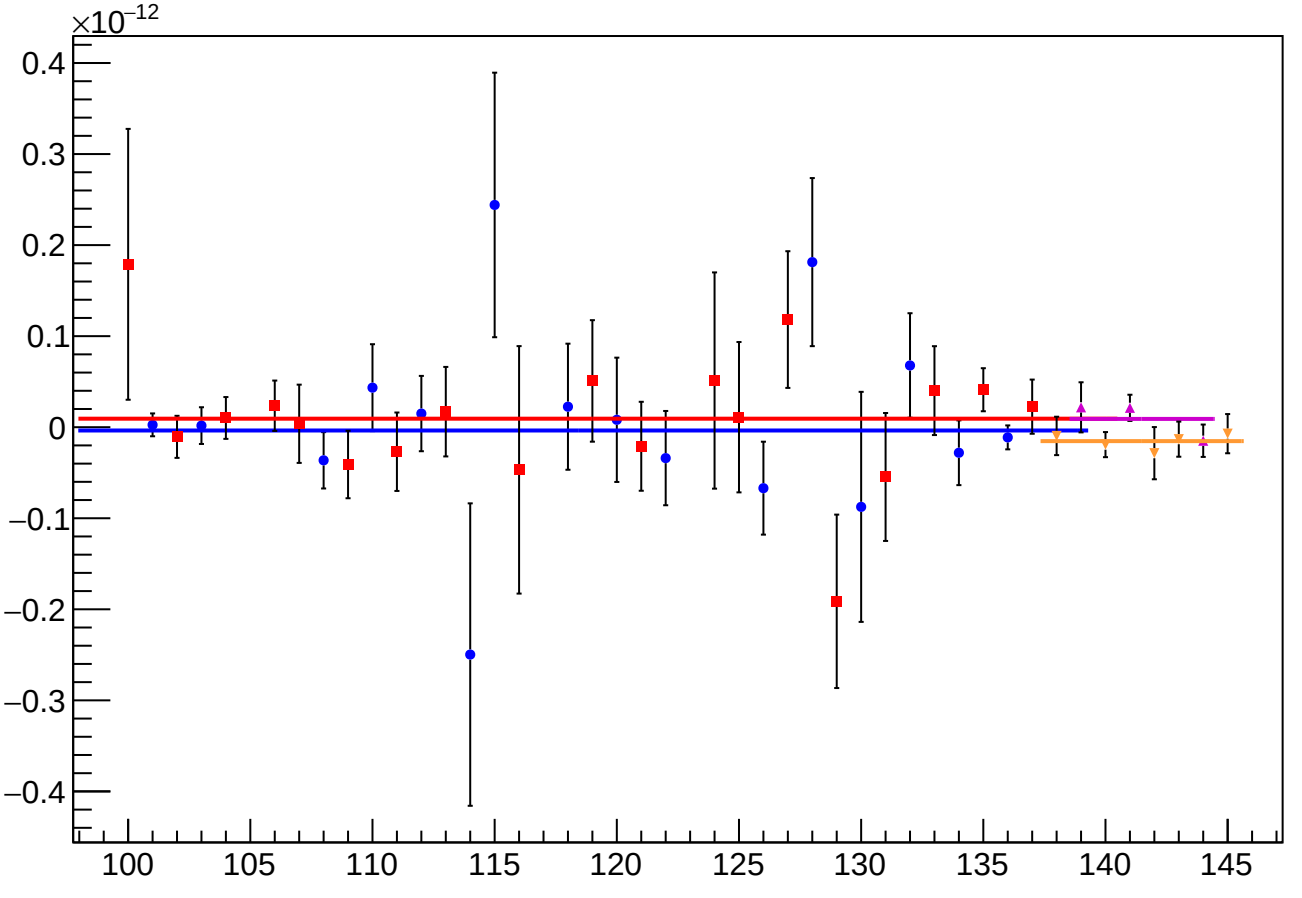
Left: 56.392+/-0.016 $\chi^2$/NDF: 95464.5/7

Right: 37.940+/-0.008 $\chi^2$/NDF: 3691915.1/34

In: 42.220+/-0.010 $\chi^2$/NDF:1973807.5/18

Out: 40.696+/-0.010 $\chi^2$/NDF:2859077.2/23

All: 41.402+/-0.007 $\chi^2$/NDF: 4844640.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:0.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.7/2

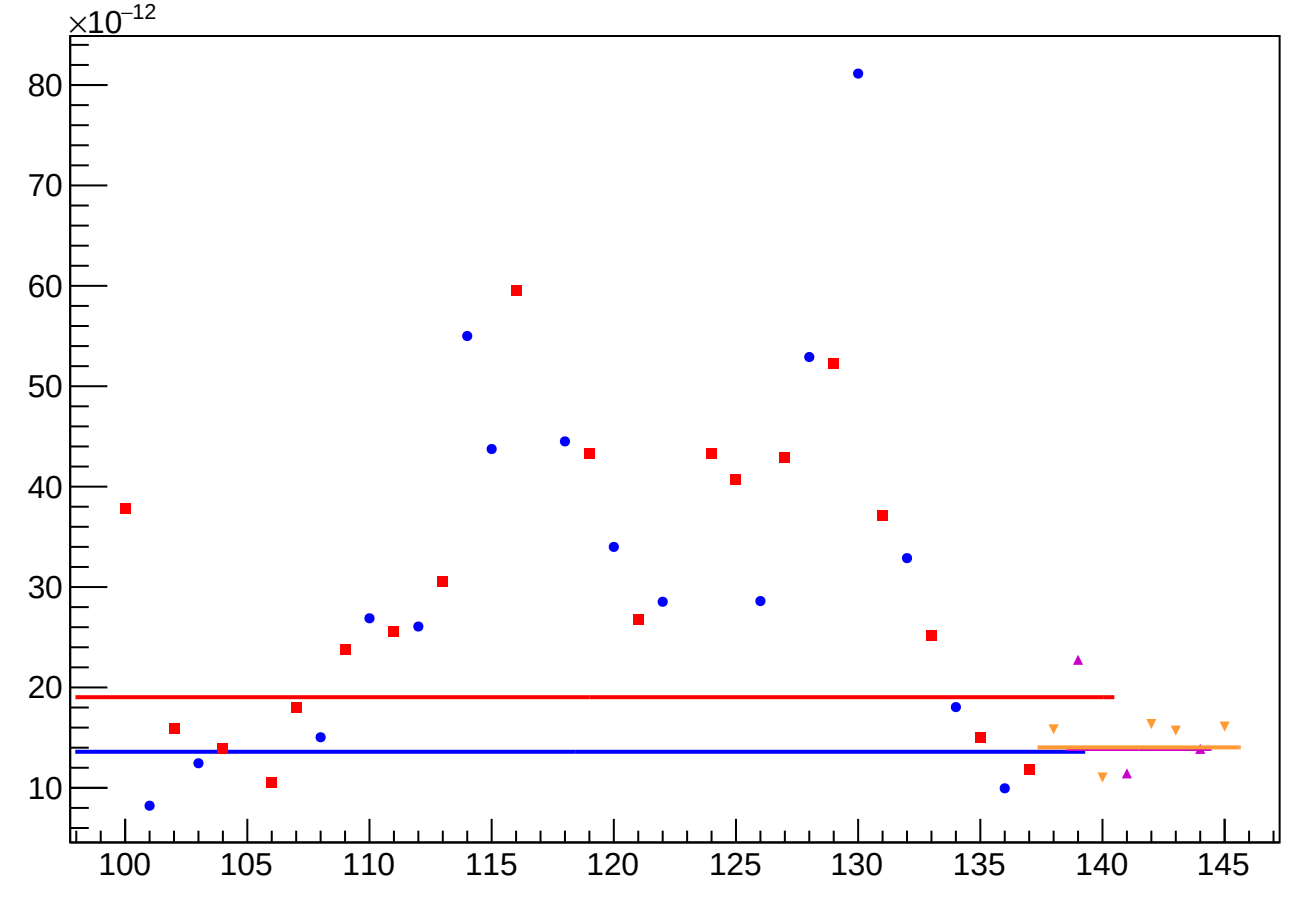
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 40.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3187097.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:156107.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2049385.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:265619.9/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 422005.7/7

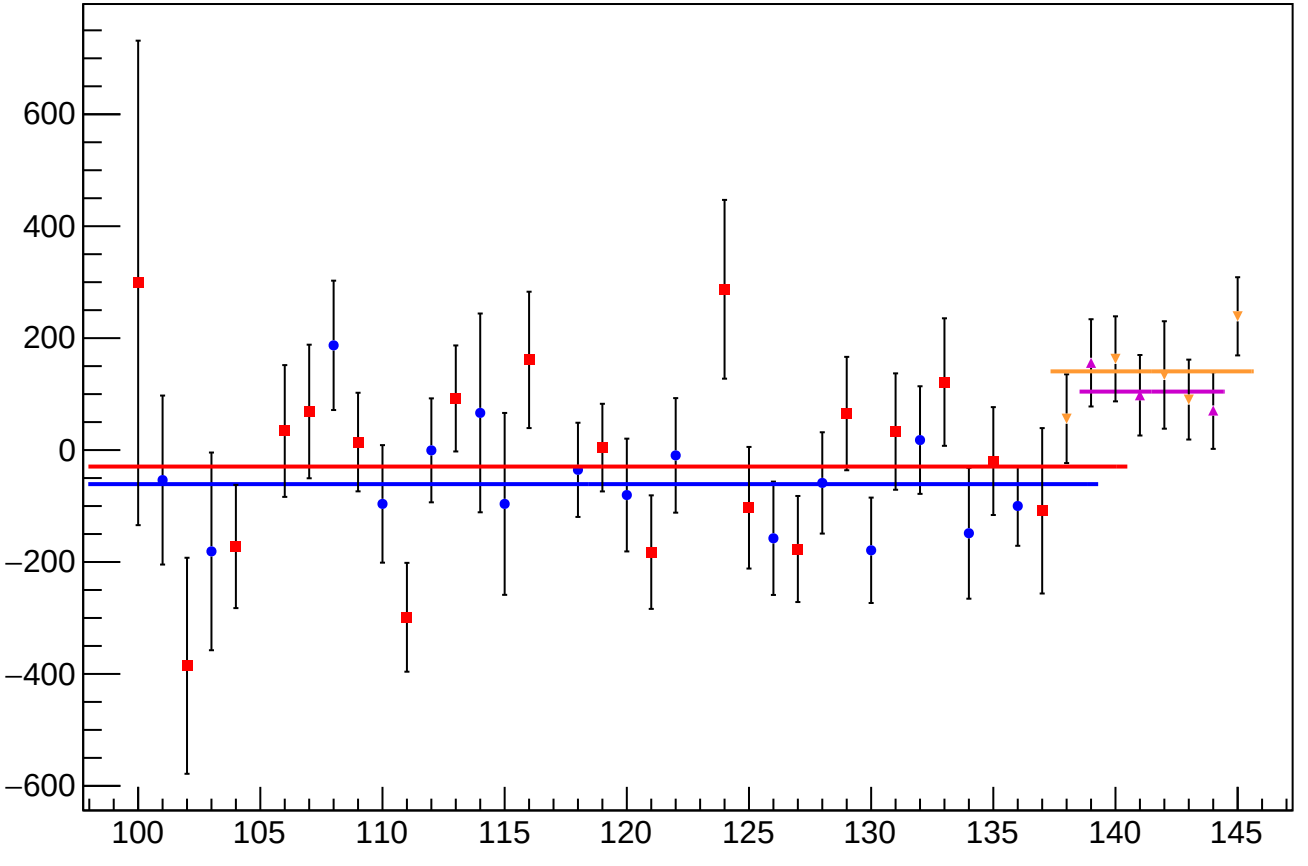
Right: 0.000+/-0.000 $\chi^2$/NDF: 5674807.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:3453679.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2525240.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6175911.7/42

# reg_asym_sam7_mean vs Slug, Sign Corrected




Right In: -60.846+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 140.634+/-34.465 $\chi^2$/NDF:3.7/4

Right Out: -29.453+/-25.105 $\chi^2$/NDF: 31.2/18

Left In: 104.465+/-41.862 $\chi^2$/NDF:0.7/2

Left: 126.022+/-26.608 $\chi^2$/NDF: 4.8/7

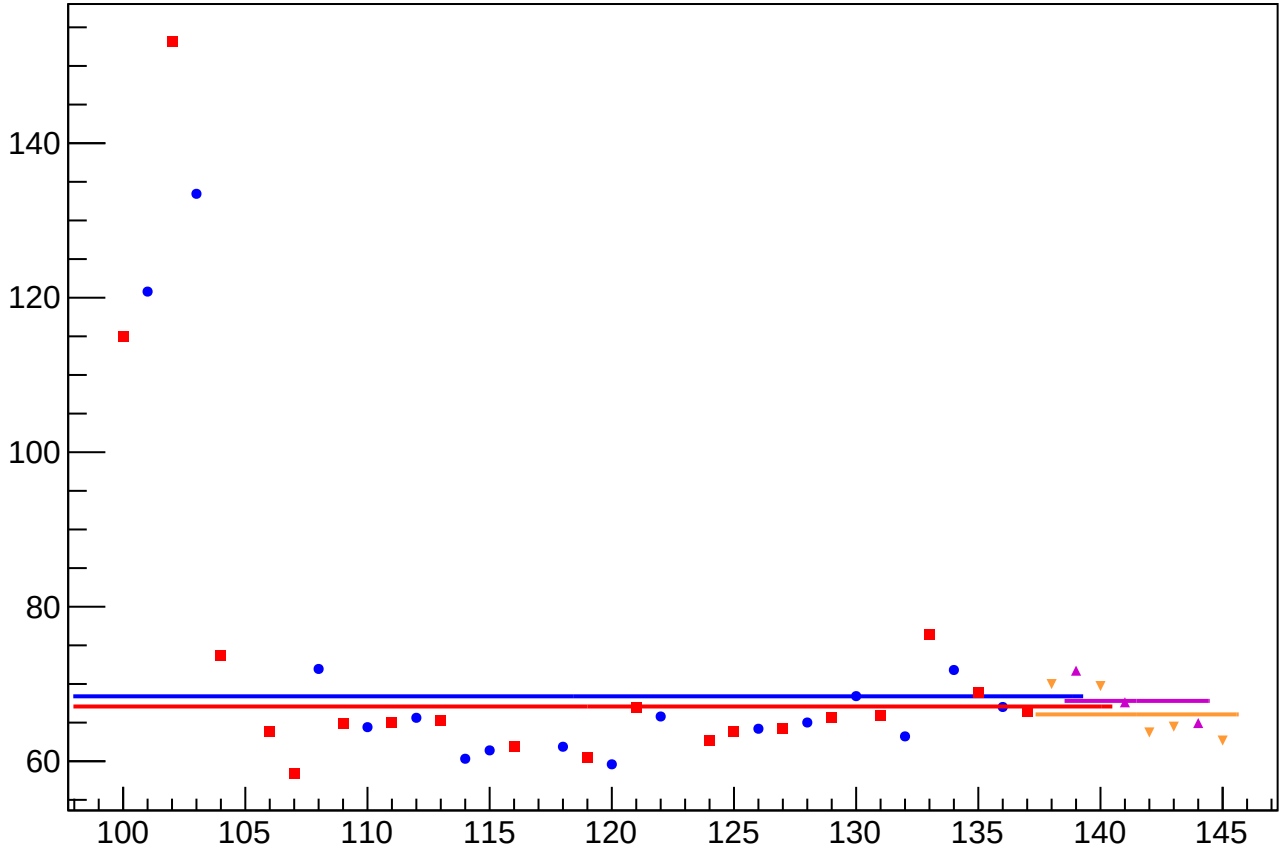
Right: -44.568+/-18.078 $\chi^2$/NDF: 42.5/34

In: -14.692+/-22.120 $\chi^2$/NDF:22.5/18

Out: 29.509+/-20.293 $\chi^2$/NDF:50.8/23

All: 9.309+/-14.953 $\chi^2$/NDF: 75.5/42

# reg_asym_sam7_rms vs Slug, Sign Corrected




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.5/15

Left Out: 66.061+/-0.024 $\chi^2$/NDF:16425.1/4

Right Out: 67.086+/-0.018 $\chi^2$/NDF: 481815.1/18

Left In: 67.810+/-0.030 $\chi^2$/NDF:8542.3/2

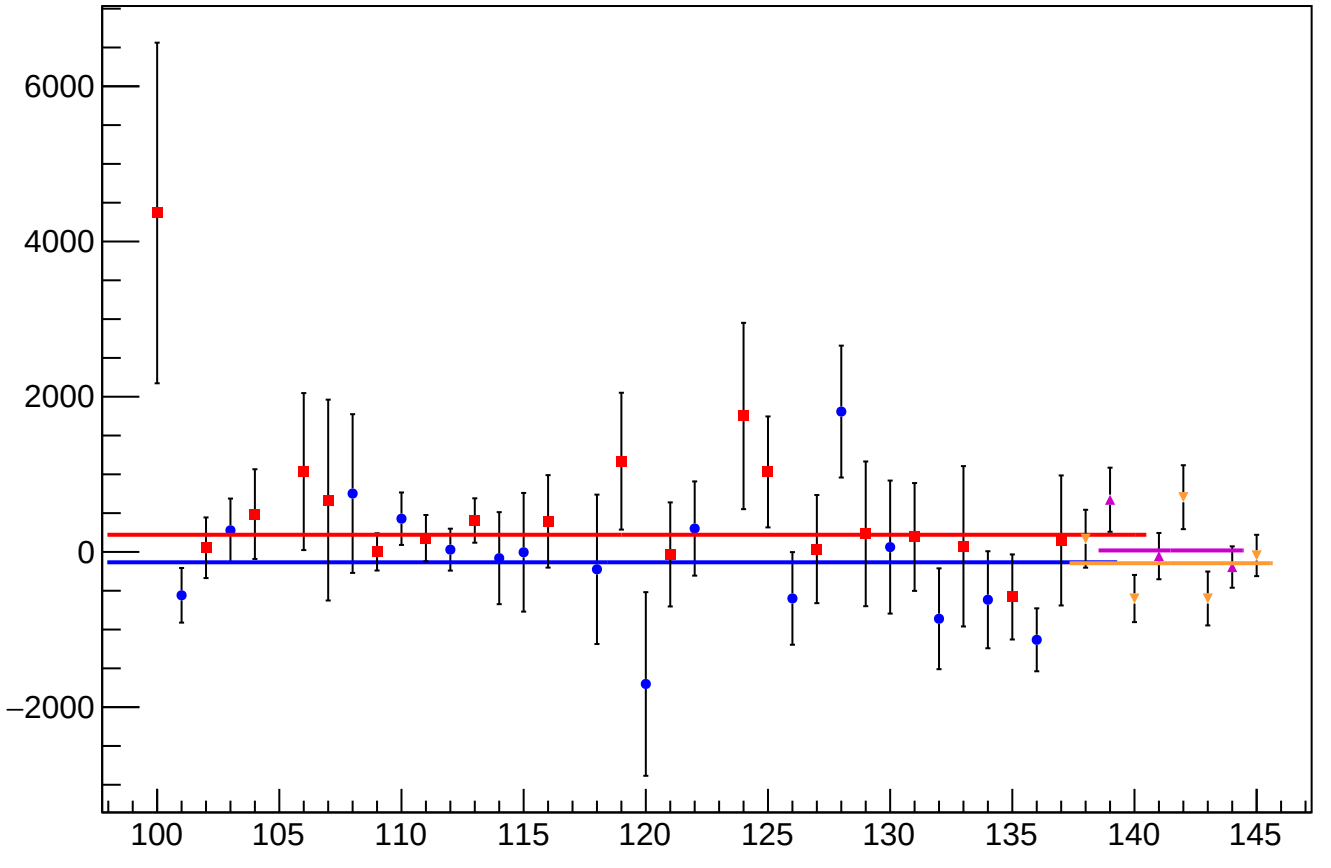
Left: 66.768+/-0.019 $\chi^2$/NDF: 27048.3/7

Right: 67.720+/-0.013 $\chi^2$/NDF: 1054024.8/34

In: 68.238+/-0.016 $\chi^2$/NDF:578389.3/18

Out: 66.730+/-0.014 $\chi^2$/NDF:499395.5/23

All: 67.419+/-0.011 $\chi^2$/NDF: 1082826.8/42




Right In: -133.590+/-125.904 $\chi^2$/NDF: 22.5/15

Left Out: -145.382+/-146.949 $\chi^2$/NDF:9.1/4

Right Out: 221.324+/-117.783 $\chi^2$/NDF: 12.5/18

Left In: 19.293+/-179.119 $\chi^2$/NDF:3.2/2

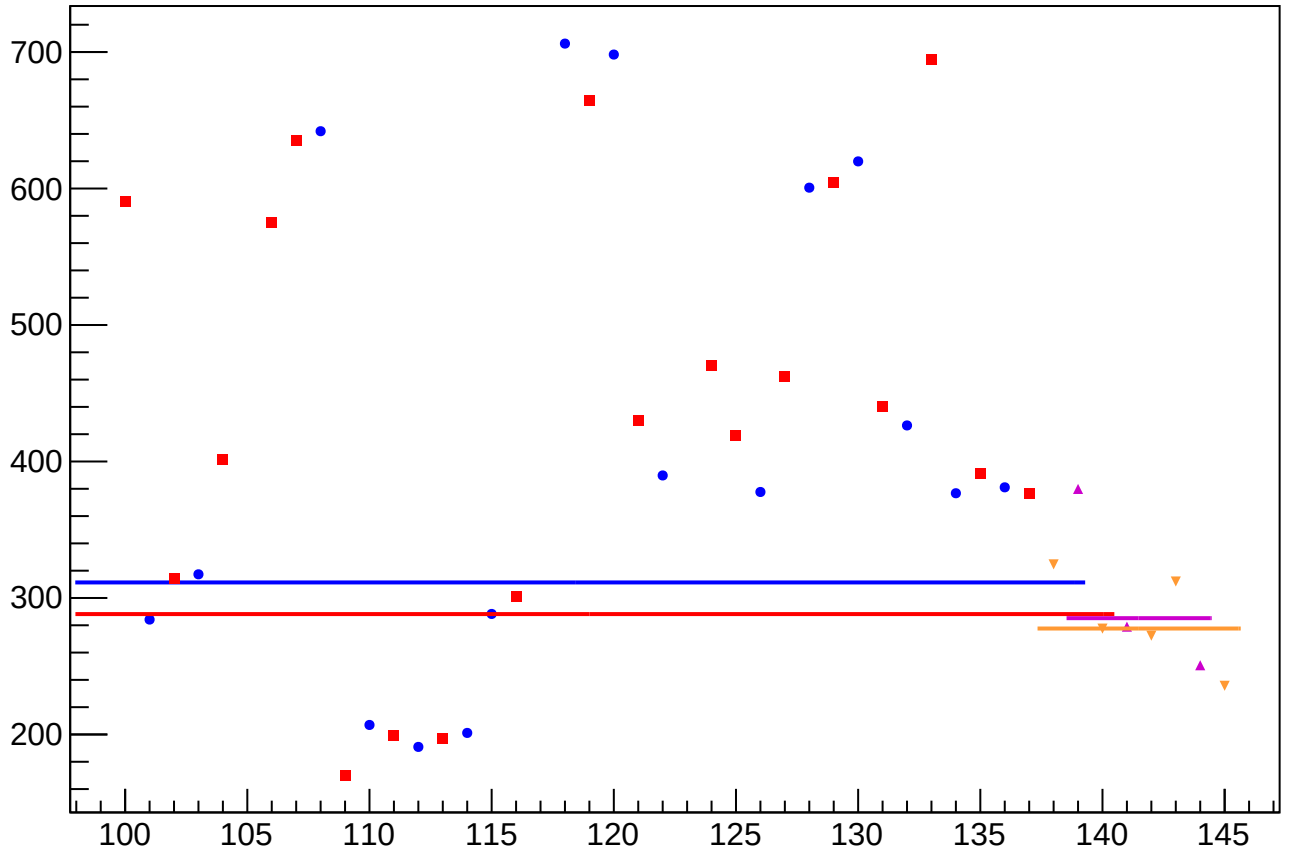
Left: -79.135+/-113.609 $\chi^2$/NDF: 12.8/7

Right: 55.682+/-86.013 $\chi^2$/NDF: 39.2/34

In: -83.033+/-103.003 $\chi^2$/NDF:26.2/18

Out: 77.888+/-91.905 $\chi^2$/NDF:25.4/23

All: 6.561+/-68.576 $\chi^2$/NDF: 52.9/42




Right In: 311.386+/-0.089 $\chi^2$/NDF: 2123797.6/15

Left Out: 277.629+/-0.104 $\chi^2$/NDF:101457.1/4

Right Out: 288.205+/-0.083 $\chi^2$/NDF: 2715380.6/18

Left In: 285.209+/-0.127 $\chi^2$/NDF:139442.8/2

Left: 280.678+/-0.080 $\chi^2$/NDF: 243041.0/7

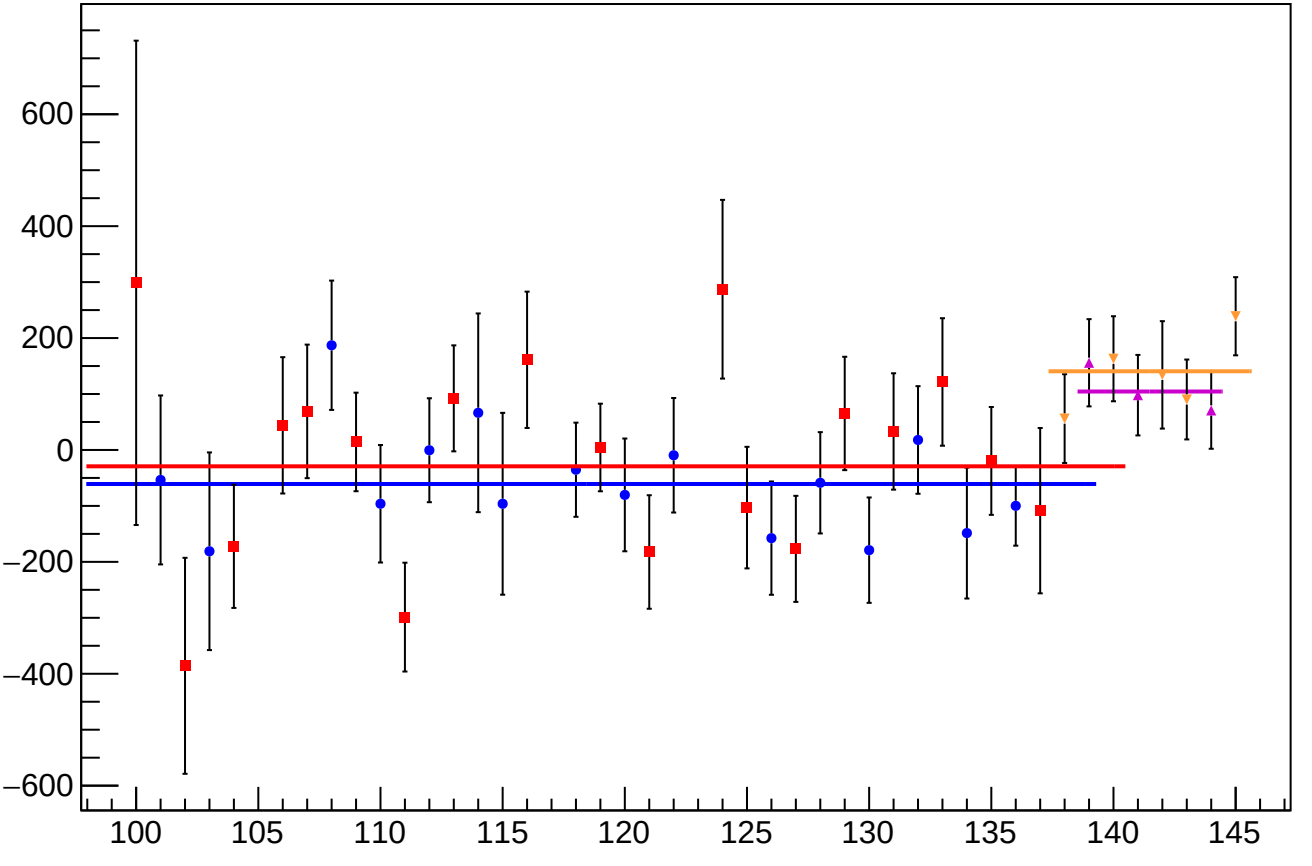
Right: 299.024+/-0.061 $\chi^2$/NDF: 4875335.3/34

In: 302.730+/-0.073 $\chi^2$/NDF:2291830.5/18

Out: 284.068+/-0.065 $\chi^2$/NDF:2823145.3/23

All: 292.340+/-0.048 $\chi^2$/NDF: 5151526.8/42

# cor_asym_sam7_mean vs Slug, Sign Corrected




Right In: -60.848+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 140.633+/-34.465 $\chi^2$/NDF:3.7/4

Right Out: -29.221+/-25.143 $\chi^2$/NDF: 31.3/18

Left In: 104.460+/-41.862 $\chi^2$/NDF:0.7/2

Left: 126.019+/-26.608 $\chi^2$/NDF: 4.8/7

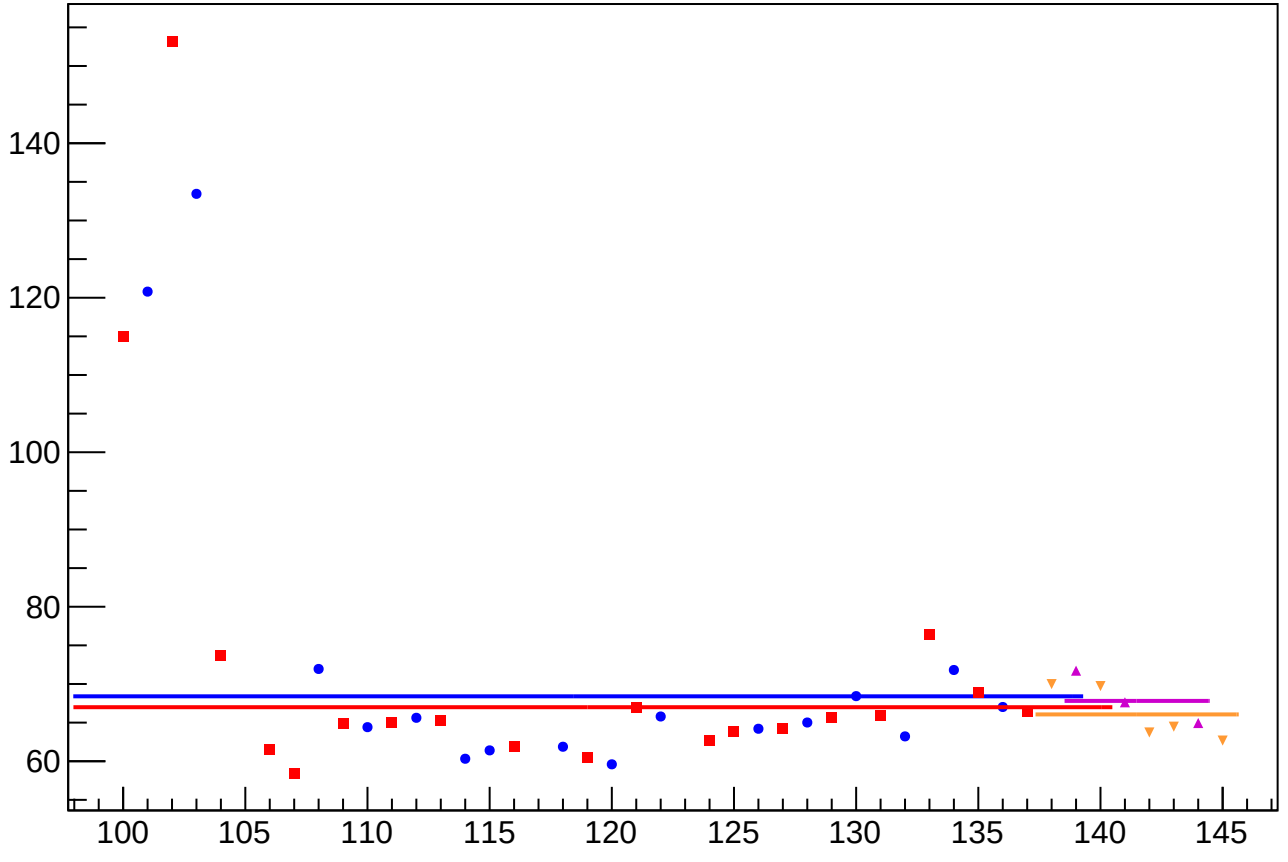
Right: -44.472+/-18.092 $\chi^2$/NDF: 42.6/34

In: -14.695+/-22.120 $\chi^2$/NDF:22.5/18

Out: 29.776+/-20.312 $\chi^2$/NDF:50.8/23

All: 9.431+/-14.961 $\chi^2$/NDF: 75.5/42

# cor_asym_sam7_rms vs Slug, Sign Corrected




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.9/15

Left Out: 66.061+/-0.024 $\chi^2$/NDF:16425.1/4

Right Out: 66.995+/-0.018 $\chi^2$/NDF: 484487.7/18

Left In: 67.810+/-0.030 $\chi^2$/NDF:8542.3/2

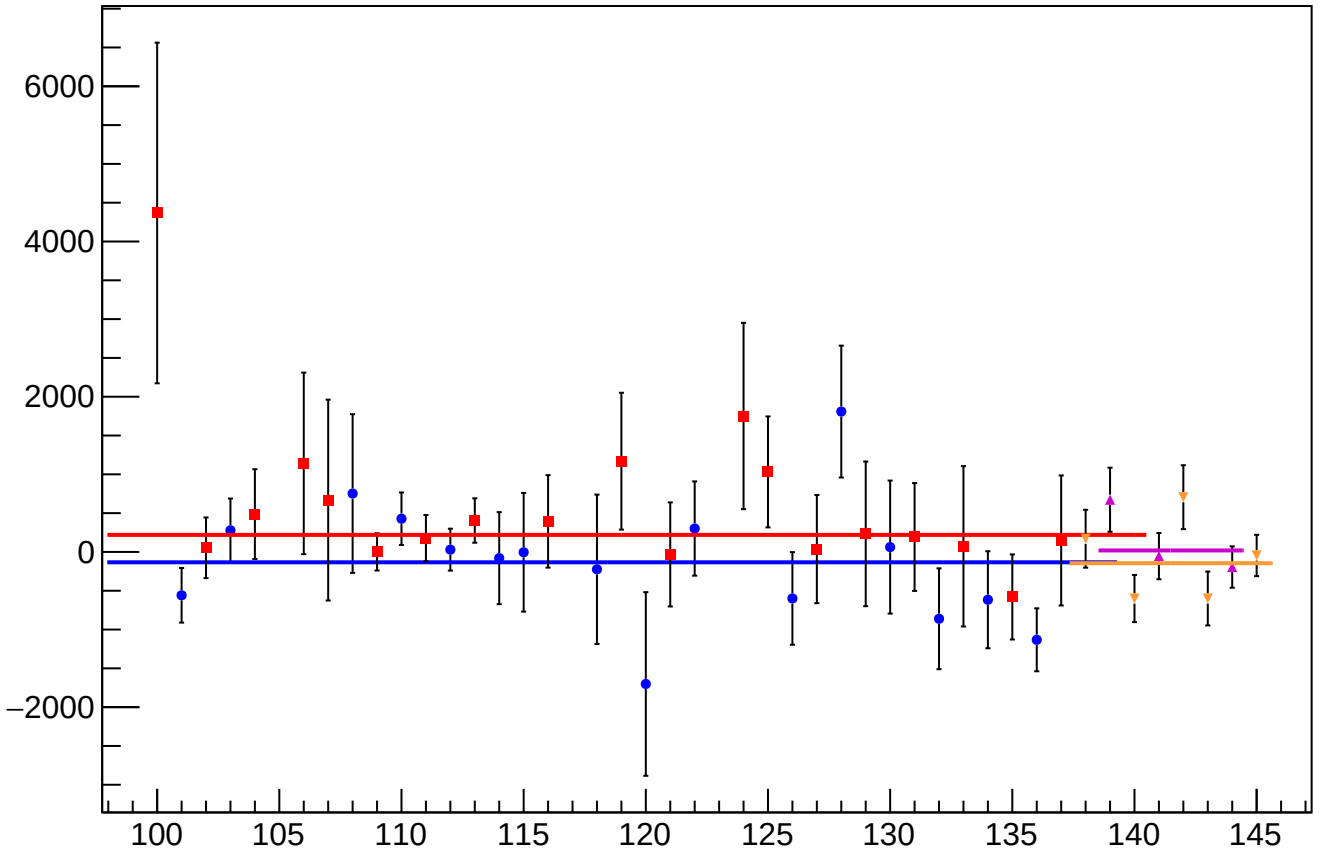
Left: 66.768+/-0.019 $\chi^2$/NDF: 27048.3/7

Right: 67.674+/-0.013 $\chi^2$/NDF: 1057072.9/34

In: 68.238+/-0.016 $\chi^2$/NDF:578389.7/18

Out: 66.670+/-0.014 $\chi^2$/NDF:501870.8/23

All: 67.387+/-0.011 $\chi^2$/NDF: 1085708.1/42




Right In: -133.587+/-125.904 $\chi^2$/NDF: 22.5/15

Left Out: -145.379+/-146.949 $\chi^2$/NDF:9.1/4

Right Out: 219.615+/-117.989 $\chi^2$/NDF: 12.5/18

Left In: 19.282+/-179.119 $\chi^2$/NDF:3.2/2

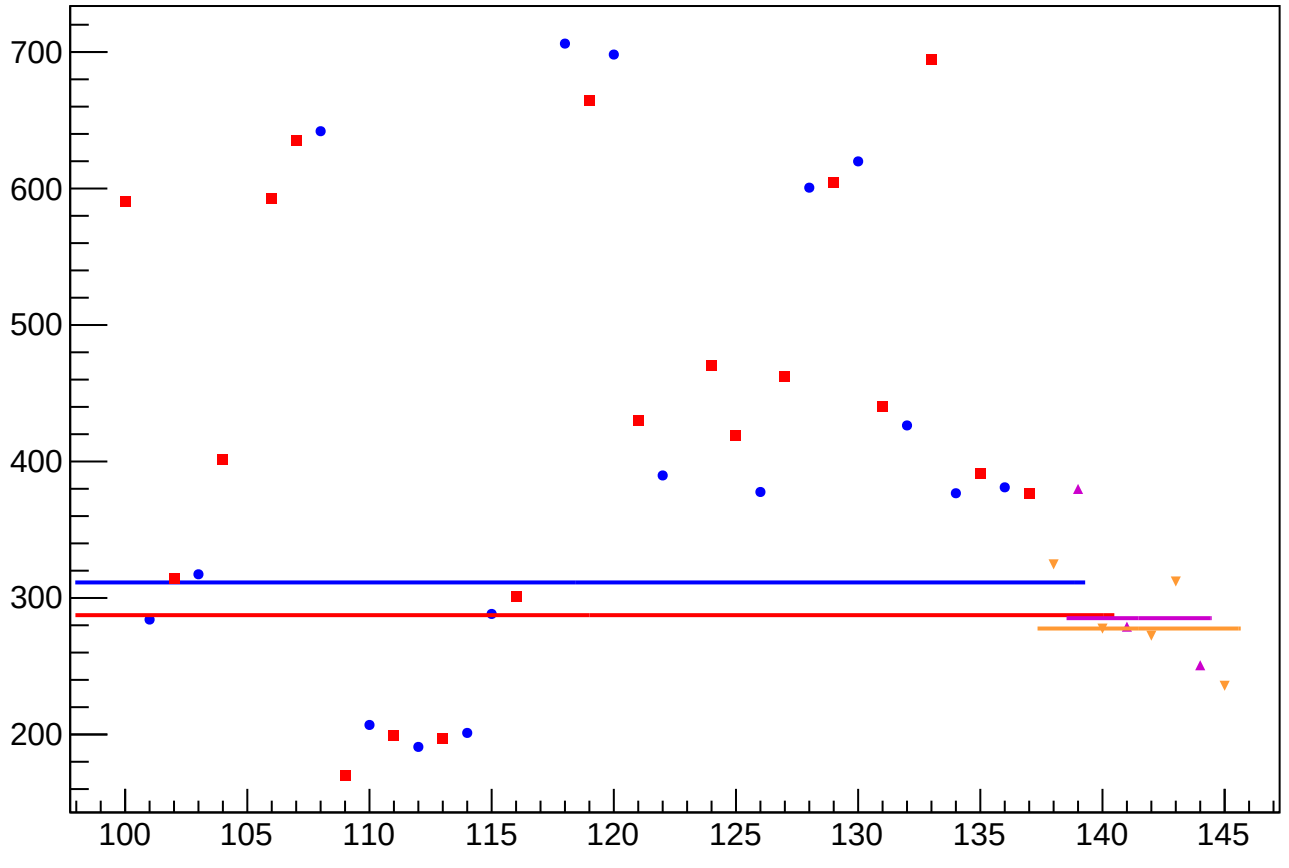
Left: -79.137+/-113.609 $\chi^2$/NDF: 12.8/7

Right: 54.464+/-86.093 $\chi^2$/NDF: 39.2/34

In: -83.034+/-103.004 $\chi^2$/NDF:26.2/18

Out: 76.543+/-92.003 $\chi^2$/NDF:25.3/23

All: 5.728+/-68.617 $\chi^2$/NDF: 52.8/42




Right In: 311.388+/-0.089 $\chi^2$/NDF: 2123799.0/15

Left Out: 277.628+/-0.104 $\chi^2$/NDF:101455.0/4

Right Out: 287.413+/-0.083 $\chi^2$/NDF: 2690258.0/18

Left In: 285.210+/-0.127 $\chi^2$/NDF:139443.0/2

Left: 280.678+/-0.080 $\chi^2$/NDF: 243039.6/7

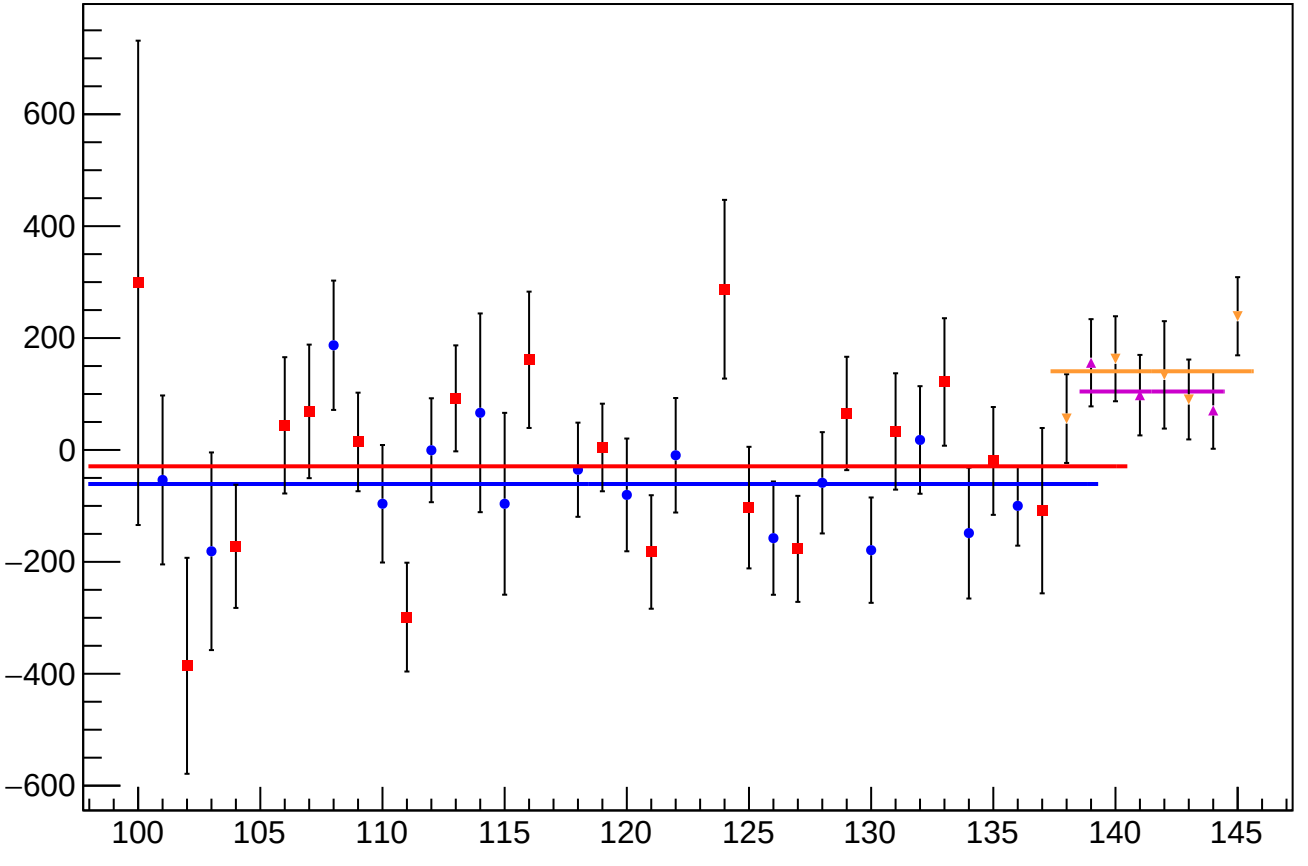
Right: 298.623+/-0.061 $\chi^2$/NDF: 4852668.8/34

In: 302.731+/-0.073 $\chi^2$/NDF:2291835.2/18

Out: 283.578+/-0.065 $\chi^2$/NDF:2797104.6/23

All: 292.077+/-0.049 $\chi^2$/NDF: 5127405.8/42

# eigen_cor_asym_sam7_mean vs Slug, Sign Corrected




Right In: -60.848+/-26.054 $\chi^2$/NDF: 10.6/15

Left Out: 140.633+/-34.465 $\chi^2$/NDF:3.7/4

Right Out: -29.221+/-25.143 $\chi^2$/NDF: 31.3/18

Left In: 104.460+/-41.862 $\chi^2$/NDF:0.7/2

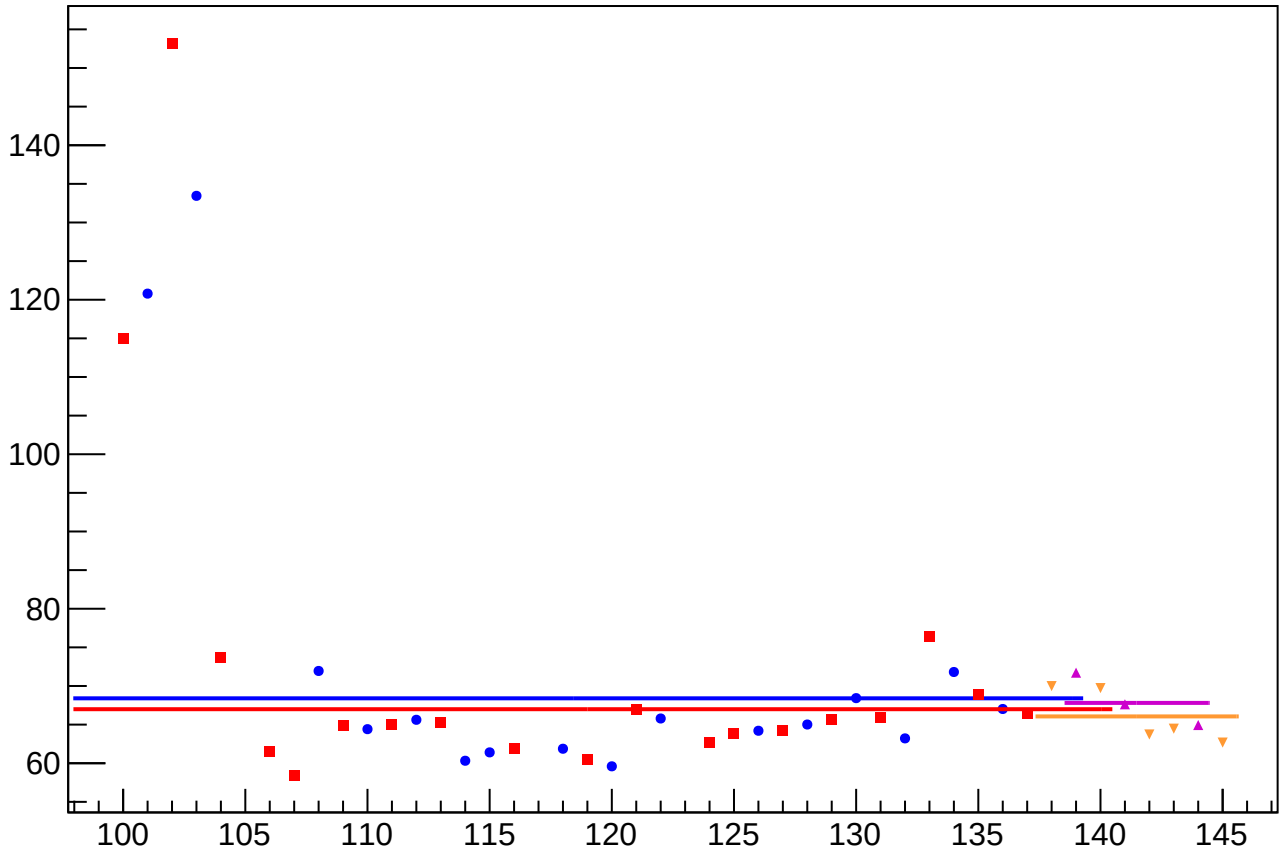
Left: 126.019+/-26.608 $\chi^2$/NDF: 4.8/7

Right: -44.472+/-18.092 $\chi^2$/NDF: 42.6/34

In: -14.695+/-22.120 $\chi^2$/NDF:22.5/18

Out: 29.776+/-20.312 $\chi^2$/NDF:50.8/23

All: 9.431+/-14.961 $\chi^2$/NDF: 75.5/42




Right In: 68.403+/-0.018 $\chi^2$/NDF: 569557.9/15

Left Out: 66.061+/-0.024 $\chi^2$/NDF:16425.1/4

Right Out: 66.995+/-0.018 $\chi^2$/NDF: 484487.7/18

Left In: 67.810+/-0.030 $\chi^2$/NDF:8542.3/2

Left: 66.768+/-0.019 $\chi^2$/NDF: 27048.3/7

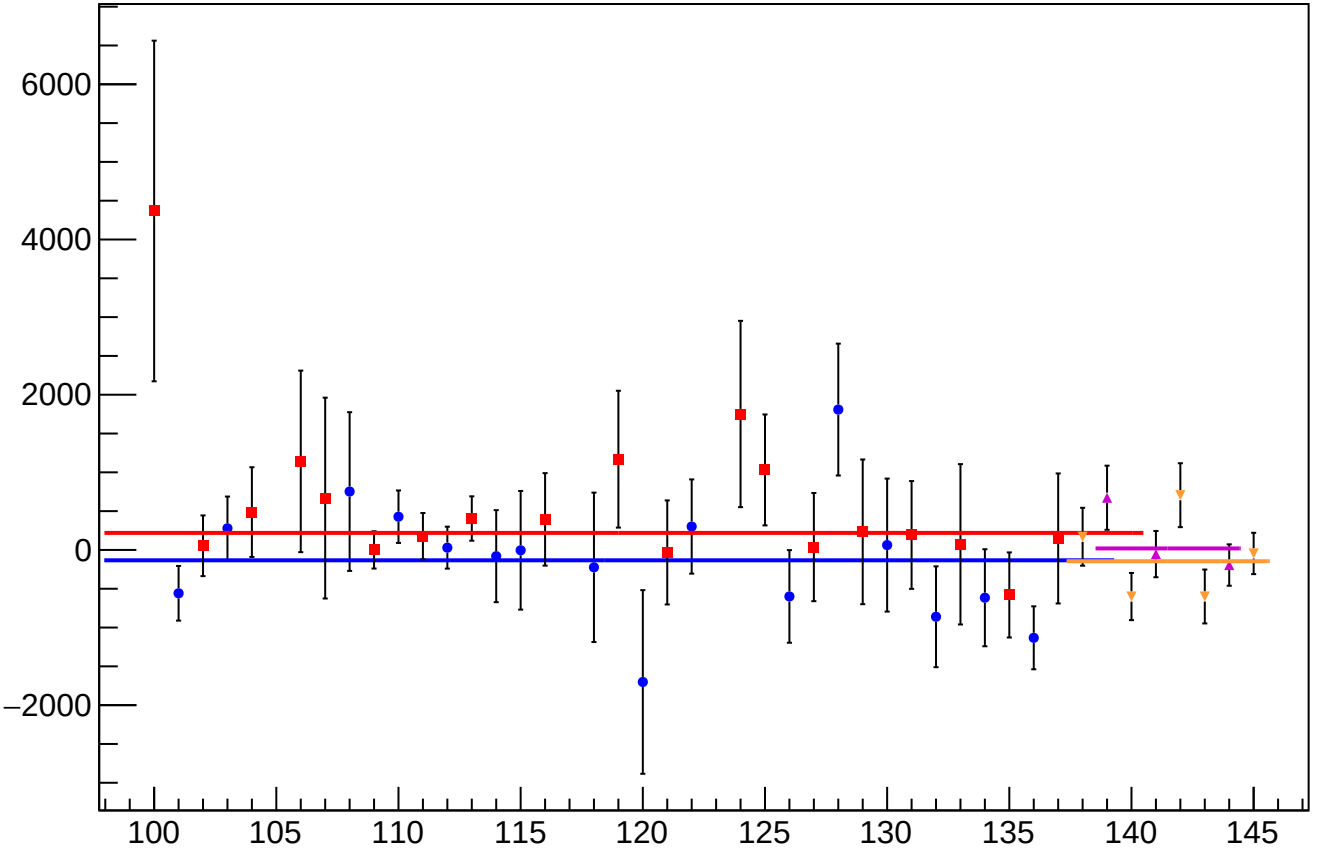
Right: 67.674+/-0.013 $\chi^2$/NDF: 1057072.9/34

In: 68.238+/-0.016 $\chi^2$/NDF:578389.7/18

Out: 66.670+/-0.014 $\chi^2$/NDF:501870.8/23

All: 67.387+/-0.011 $\chi^2$/NDF: 1085708.1/42

asym_sam7_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -133.587+/-125.904 $\chi^2$/NDF: 22.5/15

Left Out: -145.379+/-146.949 $\chi^2$/NDF:9.1/4

Right Out: 219.615+/-117.989 $\chi^2$/NDF: 12.5/18

Left In: 19.282+/-179.119 $\chi^2$/NDF:3.2/2

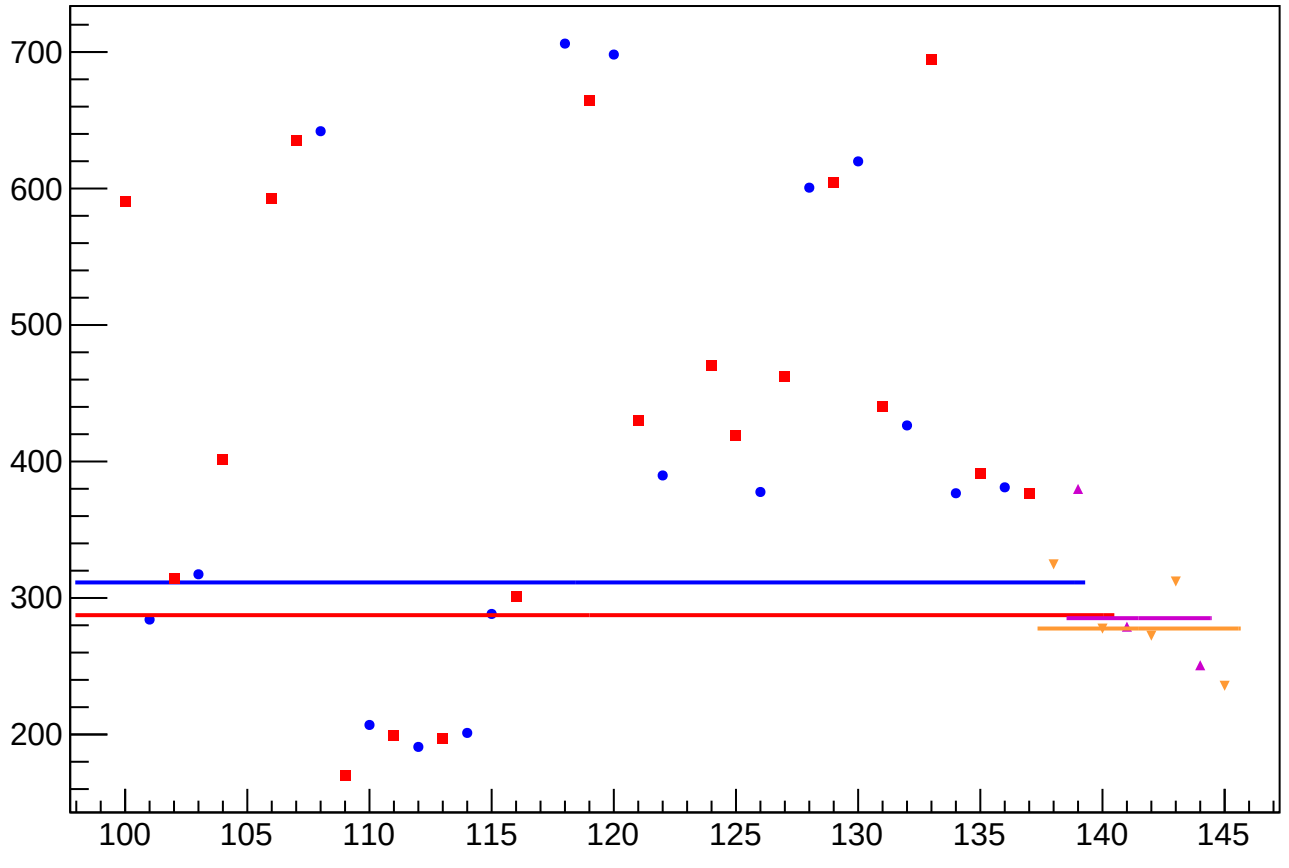
Left: -79.137+/-113.609 $\chi^2$/NDF: 12.8/7

Right: 54.464+/-86.093 $\chi^2$/NDF: 39.2/34

In: -83.034+/-103.004 $\chi^2$/NDF:26.2/18

Out: 76.543+/-92.003 $\chi^2$/NDF:25.3/23

All: 5.728+/-68.617 $\chi^2$/NDF: 52.8/42




Right In: 311.388+/-0.089 $\chi^2$/NDF: 2123799.0/15

Left Out: 277.628+/-0.104 $\chi^2$/NDF:101455.0/4

Right Out: 287.413+/-0.083 $\chi^2$/NDF: 2690258.0/18

Left In: 285.210+/-0.127 $\chi^2$/NDF:139443.0/2

Left: 280.678+/-0.080 $\chi^2$/NDF: 243039.6/7

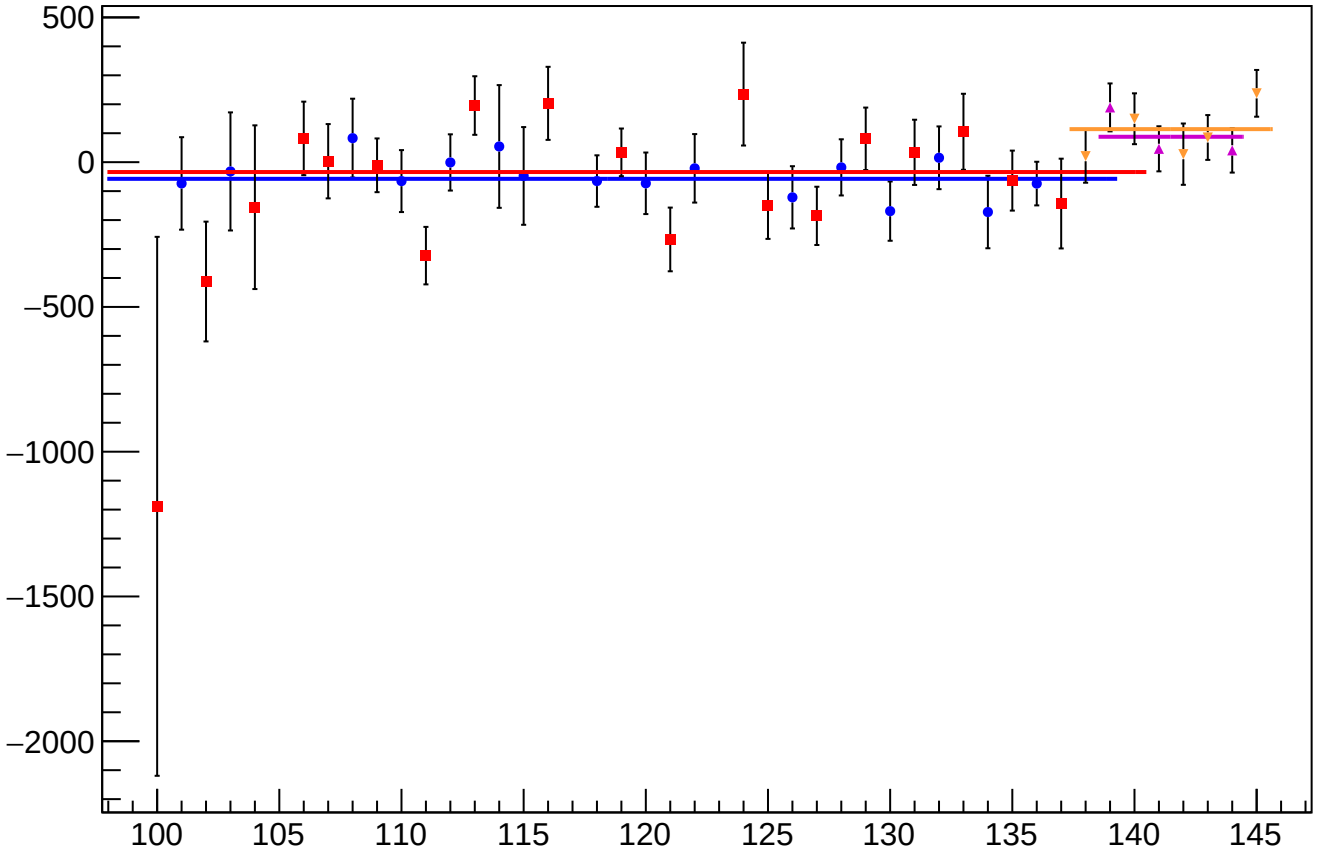
Right: 298.623+/-0.061 $\chi^2$/NDF: 4852668.8/34

In: 302.731+/-0.073 $\chi^2$/NDF:2291835.2/18

Out: 283.578+/-0.065 $\chi^2$/NDF:2797104.6/23

All: 292.077+/-0.049 $\chi^2$/NDF: 5127405.8/42

# dit_asym_sam7_mean vs Slug, Sign Corrected




Right In: -57.533+/-28.087 $\chi^2$/NDF: 4.9/15

Left Out: 114.106+/-38.982 $\chi^2$/NDF:4.4/4

Right Out: -34.033+/-27.398 $\chi^2$/NDF: 37.1/18

Left In: 87.735+/-45.626 $\chi^2$/NDF:2.2/2

Left: 102.978+/-29.638 $\chi^2$/NDF: 6.7/7

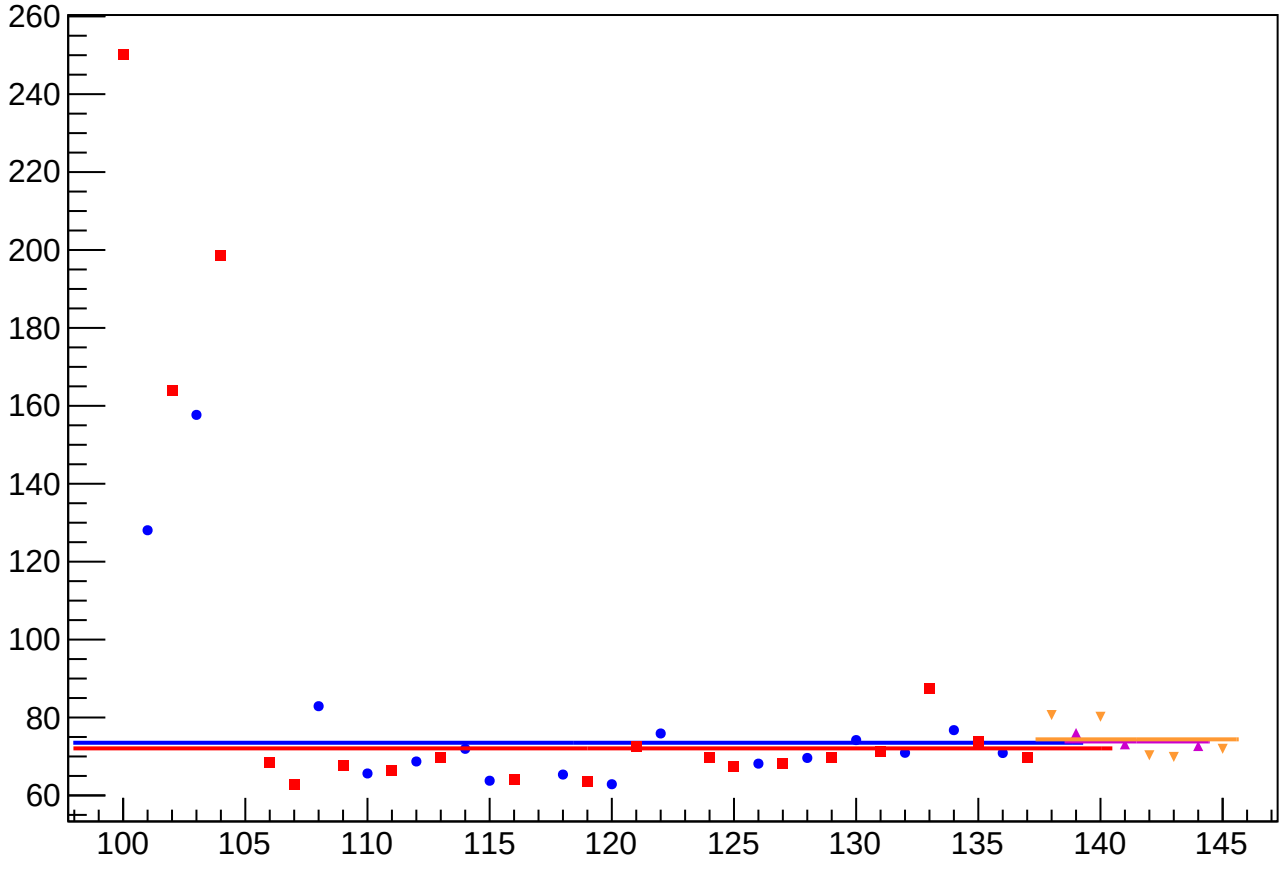
Right: -45.491+/-19.612 $\chi^2$/NDF: 42.4/34

In: -17.612+/-23.918 $\chi^2$/NDF:14.4/18

Out: 14.949+/-22.415 $\chi^2$/NDF:51.2/23

All: -0.277+/-16.356 $\chi^2$/NDF: 66.5/42

# dit_asym_sam7_rms vs Slug, Sign Corrected




Right In: 73.519+/-0.020 $\chi^2$/NDF: 656847.5/15

Left Out: 74.394+/-0.028 $\chi^2$/NDF:29542.8/4

Right Out: 72.074+/-0.019 $\chi^2$/NDF: 958495.0/18

Left In: 73.850+/-0.032 $\chi^2$/NDF:2008.8/2

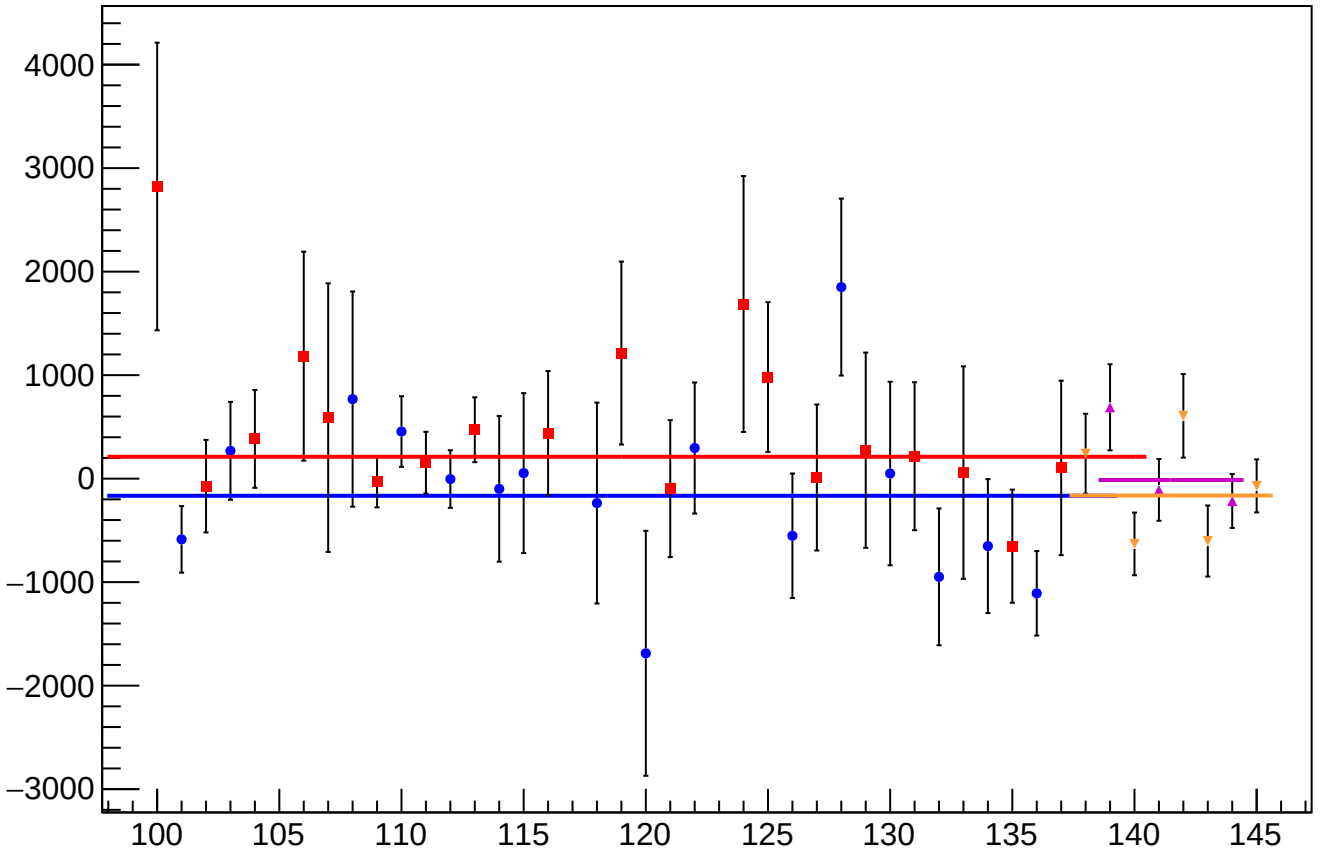
Left: 74.164+/-0.021 $\chi^2$/NDF: 31715.9/7

Right: 72.779+/-0.014 $\chi^2$/NDF: 1618055.3/34

In: 73.610+/-0.017 $\chi^2$/NDF:658932.6/18

Out: 72.841+/-0.016 $\chi^2$/NDF:992777.8/23

All: 73.201+/-0.012 $\chi^2$/NDF: 1652811.2/42




Right In: -165.500+/-128.438 $\chi^2$/NDF: 22.6/15

Left Out: -162.739+/-145.170 $\chi^2$/NDF:8.9/4

Right Out: 211.347+/-120.122 $\chi^2$/NDF: 13.6/18

Left In: -13.123+/-177.512 $\chi^2$/NDF:3.6/2

Left: -102.777+/-112.376 $\chi^2$/NDF: 12.9/7

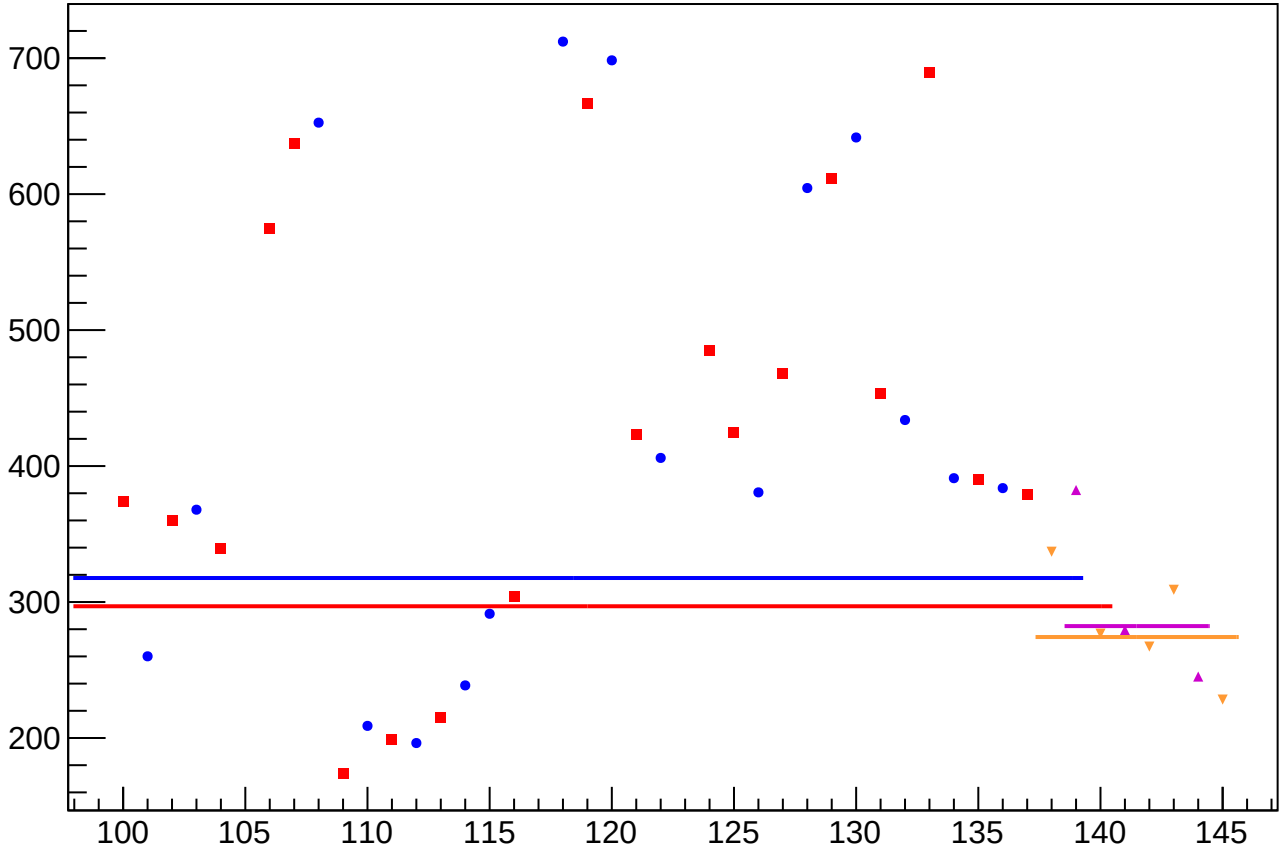
Right: 35.518+/-87.732 $\chi^2$/NDF: 40.8/34

In: -113.139+/-104.056 $\chi^2$/NDF:26.7/18

Out: 59.313+/-92.547 $\chi^2$/NDF:26.4/23

All: -16.852+/-69.153 $\chi^2$/NDF: 54.6/42

# asym_sam7_dit_correction_rms vs Slug, Sign Corrected




Right In: 317.664+/-0.091 $\chi^2$/NDF: 2136192.8/15

Left Out: 274.258+/-0.103 $\chi^2$/NDF:138485.7/4

Right Out: 296.888+/-0.085 $\chi^2$/NDF: 2541040.3/18

Left In: 282.299+/-0.126 $\chi^2$/NDF:156601.5/2

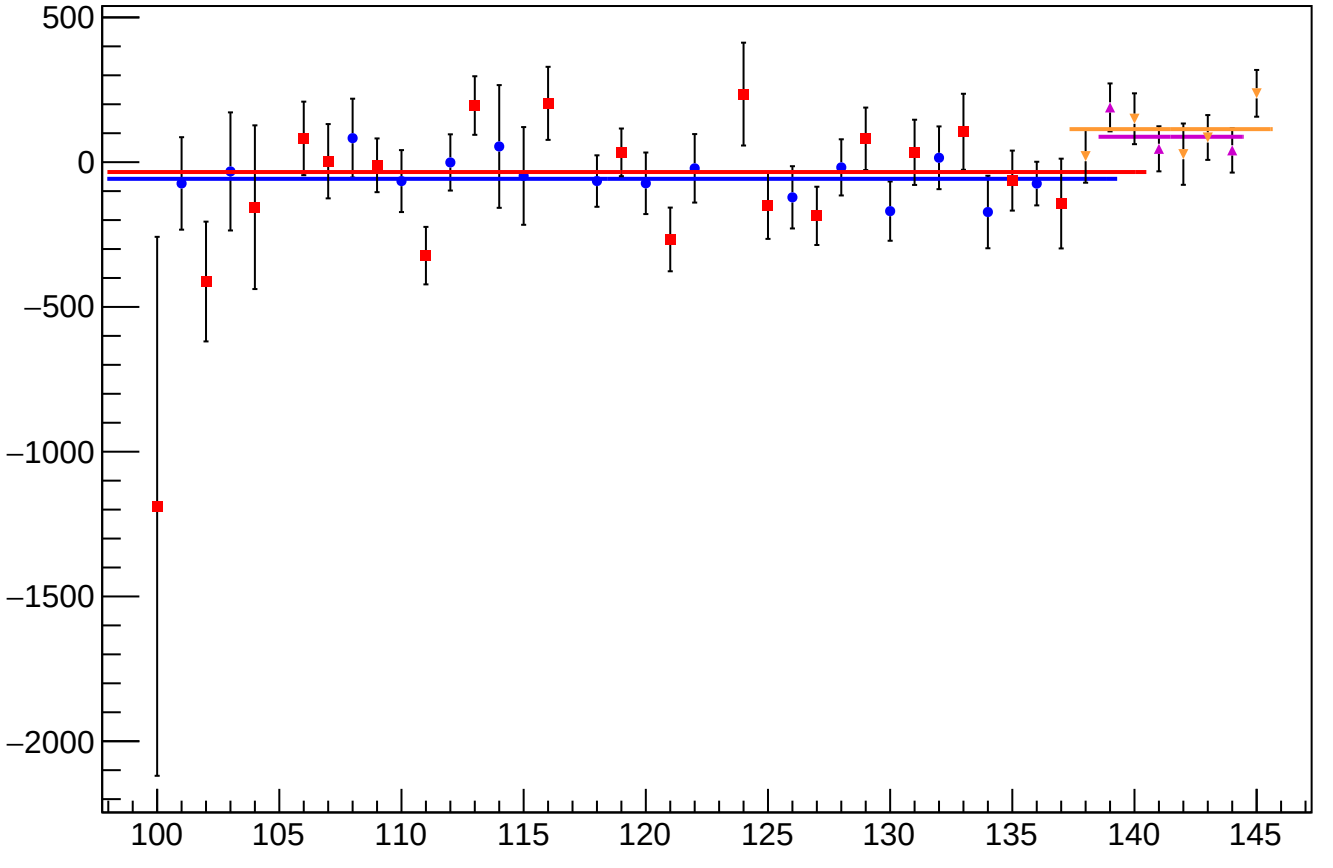
Left: 277.481+/-0.079 $\chi^2$/NDF: 297545.9/7

Right: 306.582+/-0.062 $\chi^2$/NDF: 4705147.7/34

In: 305.512+/-0.074 $\chi^2$/NDF:2344900.0/18

Out: 287.691+/-0.065 $\chi^2$/NDF:2708374.1/23

All: 295.562+/-0.049 $\chi^2$/NDF: 5086025.8/42




Right In: -57.532+/-28.087 $\chi^2$/NDF: 4.9/15

Left Out: 114.103+/-38.982 $\chi^2$/NDF:4.4/4

Right Out: -34.034+/-27.398 $\chi^2$/NDF: 37.1/18

Left In: 87.735+/-45.626 $\chi^2$/NDF:2.2/2

Left: 102.977+/-29.638 $\chi^2$/NDF: 6.7/7

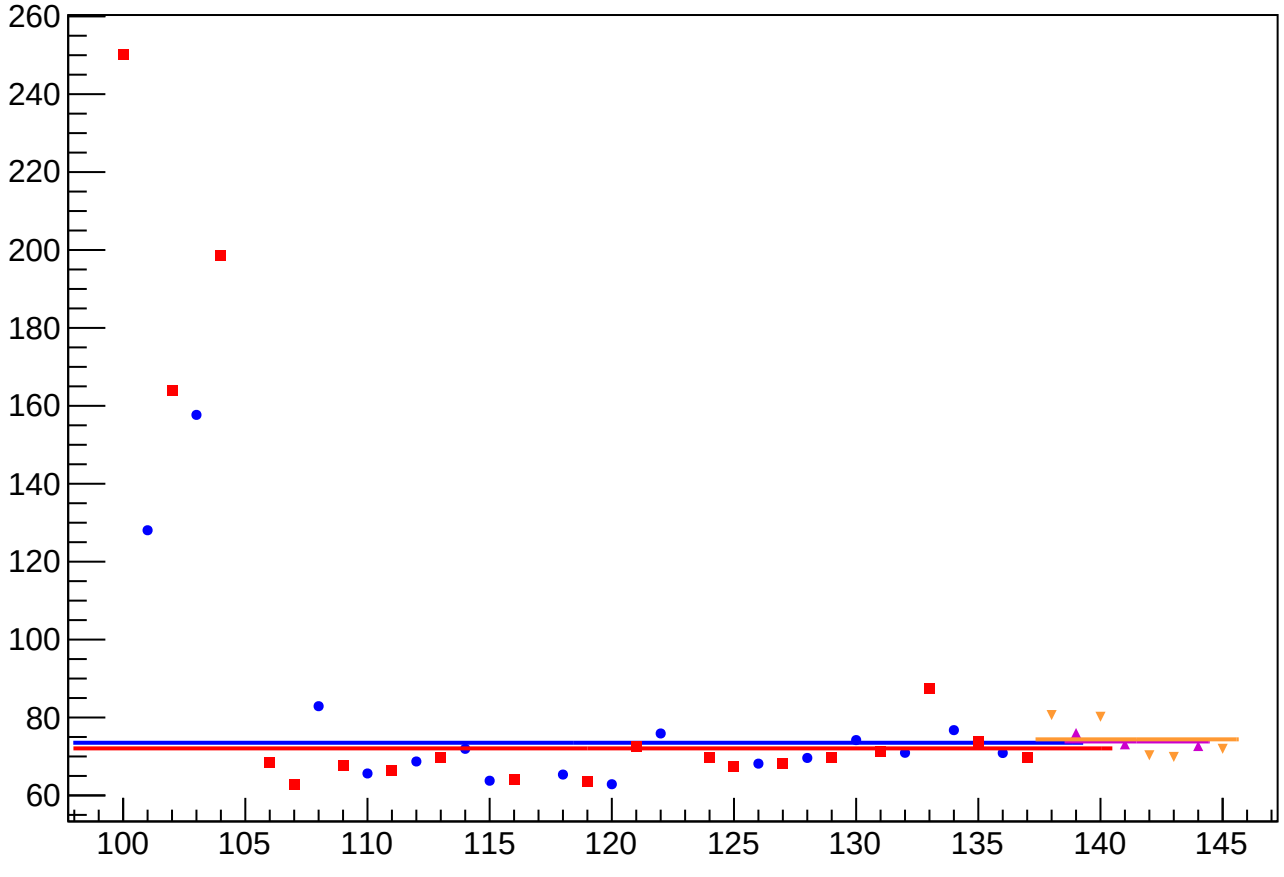
Right: -45.491+/-19.612 $\chi^2$/NDF: 42.4/34

In: -17.612+/-23.918 $\chi^2$/NDF:14.4/18

Out: 14.947+/-22.415 $\chi^2$/NDF:51.2/23

All: -0.277+/-16.356 $\chi^2$/NDF: 66.5/42

# eigen_dit_asym_sam7_rms vs Slug, Sign Corrected




Right In: 73.519+/-0.020 $\chi^2$/NDF: 656849.2/15

Left Out: 74.394+/-0.028 $\chi^2$/NDF:29541.6/4

Right Out: 72.074+/-0.019 $\chi^2$/NDF: 958496.3/18

Left In: 73.850+/-0.032 $\chi^2$/NDF:2008.6/2

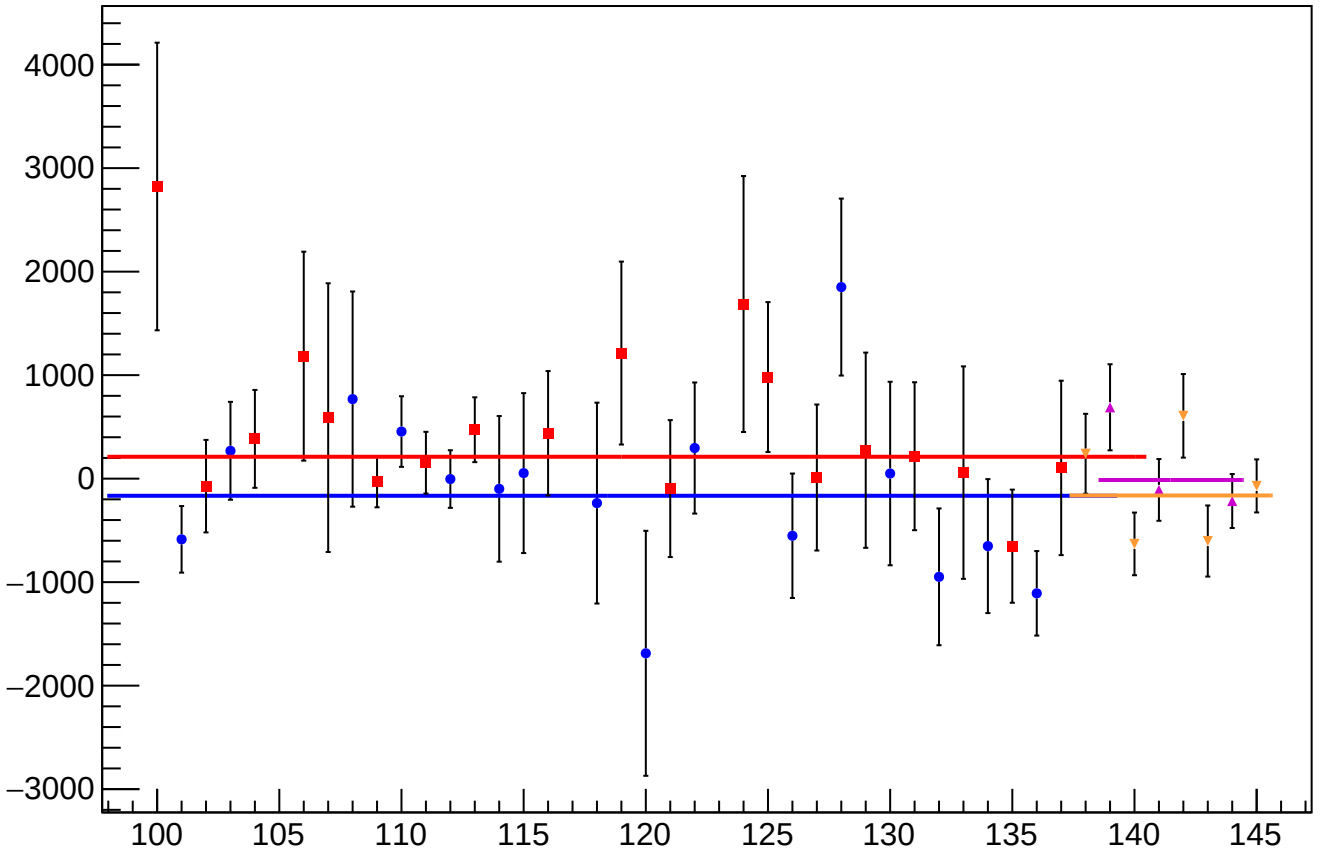
Left: 74.164+/-0.021 $\chi^2$/NDF: 31714.4/7

Right: 72.778+/-0.014 $\chi^2$/NDF: 1618058.1/34

In: 73.610+/-0.017 $\chi^2$/NDF:658934.2/18

Out: 72.841+/-0.016 $\chi^2$/NDF:992778.7/23

All: 73.200+/-0.012 $\chi^2$/NDF: 1652813.5/42




Right In: -165.498+/-128.437 $\chi^2$/NDF: 22.6/15

Left Out: -162.741+/-145.170 $\chi^2$/NDF:8.9/4

Right Out: 211.347+/-120.121 $\chi^2$/NDF: 13.6/18

Left In: -13.122+/-177.511 $\chi^2$/NDF:3.6/2

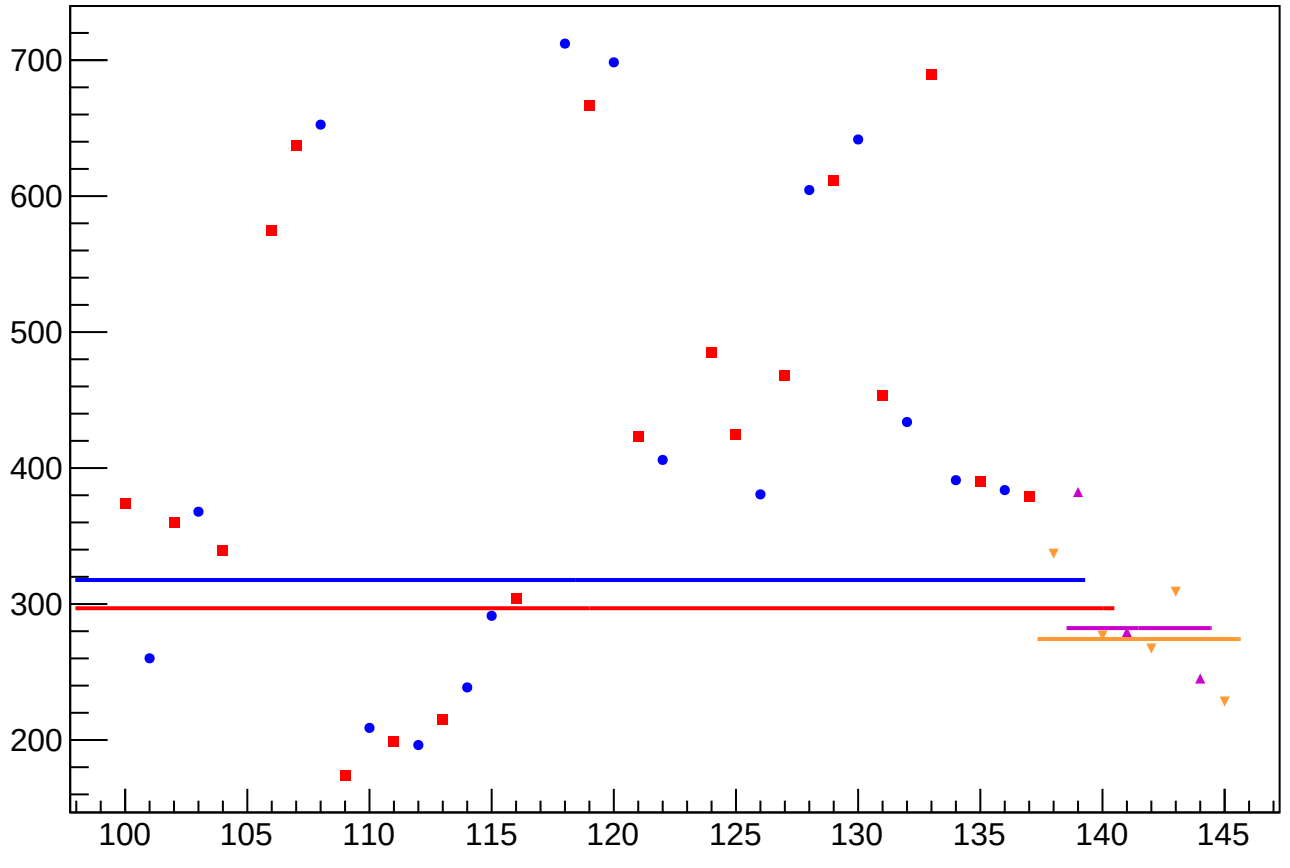
Left: -102.779+/-112.376 $\chi^2$/NDF: 12.9/7

Right: 35.517+/-87.731 $\chi^2$/NDF: 40.8/34

In: -113.139+/-104.056 $\chi^2$/NDF:26.7/18

Out: 59.312+/-92.547 $\chi^2$/NDF:26.4/23

All: -16.853+/-69.153 $\chi^2$/NDF: 54.6/42




Right In: 317.661+/-0.091 $\chi^2$/NDF: 2136224.4/15

Left Out: 274.258+/-0.103 $\chi^2$/NDF:138487.2/4

Right Out: 296.887+/-0.085 $\chi^2$/NDF: 2541051.2/18

Left In: 282.298+/-0.126 $\chi^2$/NDF:156602.5/2

Left: 277.480+/-0.079 $\chi^2$/NDF: 297548.5/7

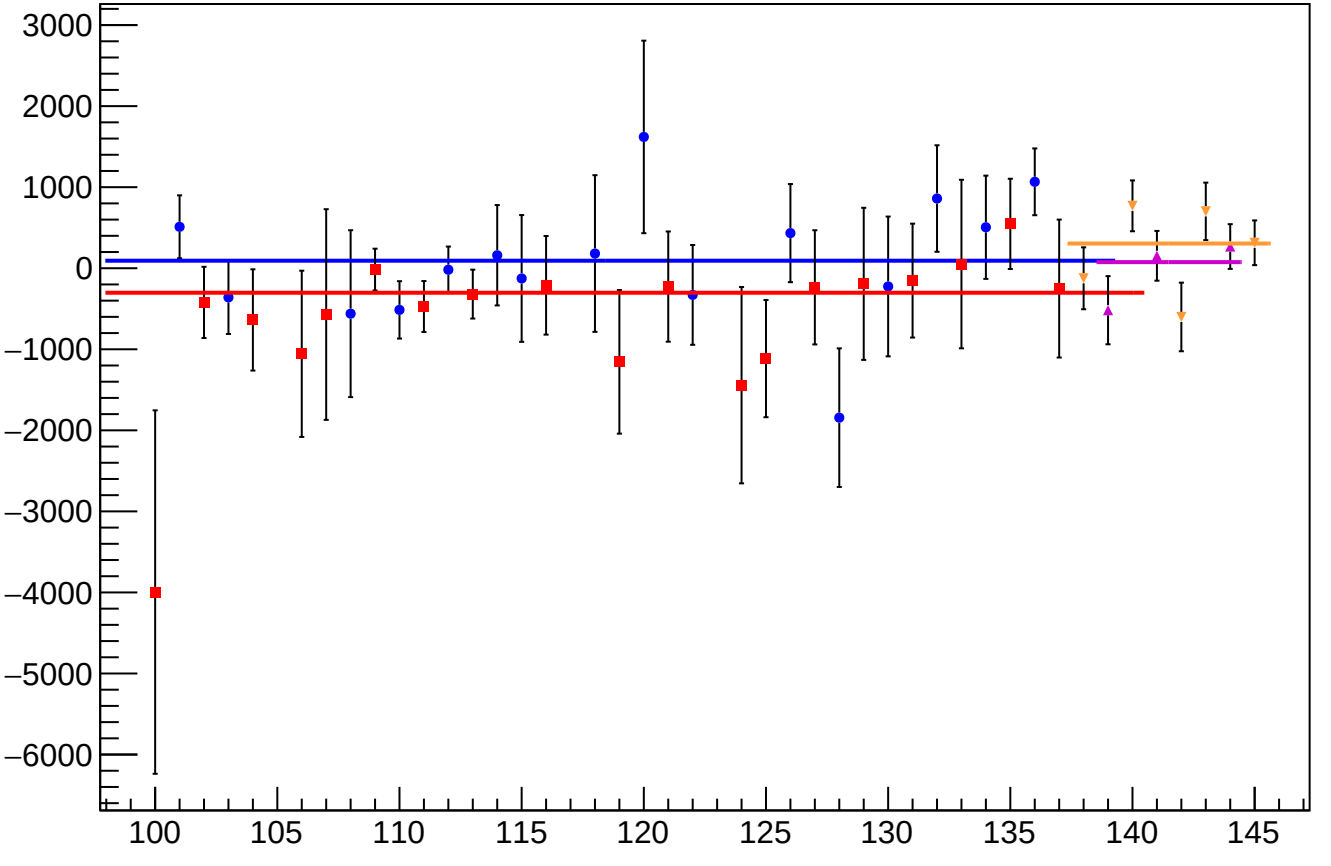
Right: 306.580+/-0.062 $\chi^2$/NDF: 4705187.9/34

In: 305.510+/-0.074 $\chi^2$/NDF:2344927.2/18

Out: 287.690+/-0.065 $\chi^2$/NDF:2708384.3/23

All: 295.560+/-0.049 $\chi^2$/NDF: 5086061.3/42

# asym_sam7_mean vs Slug, Sign Corrected




Right In: 92.803+/-131.927 $\chi^2$/NDF: 20.8/15

Left Out: 304.887+/-151.273 $\chi^2$/NDF:9.3/4

Right Out: -302.273+/-123.916 $\chi^2$/NDF: 10.8/18

Left In: 75.401+/-184.386 $\chi^2$/NDF:2.5/2

Left: 212.565+/-116.951 $\chi^2$/NDF: 12.8/7

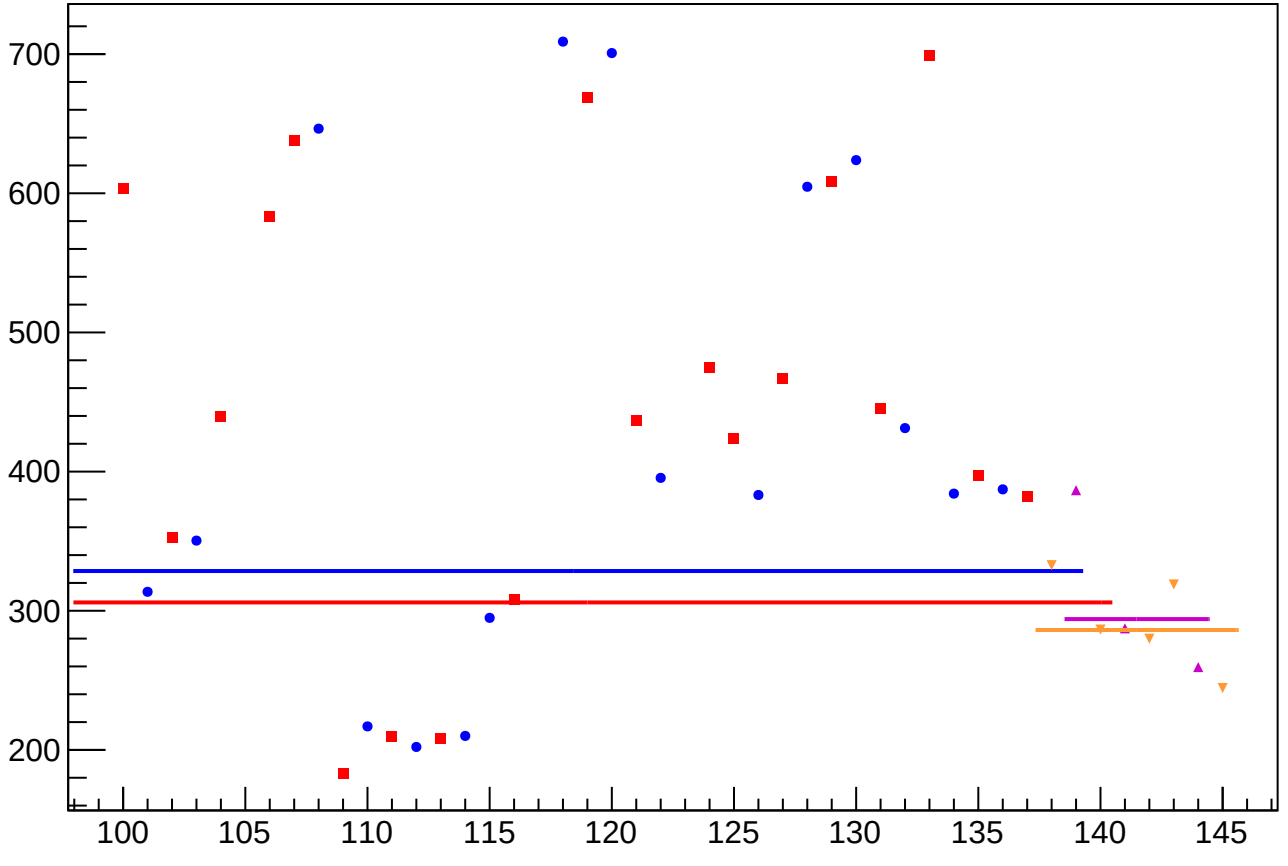
Right: -117.093+/-90.322 $\chi^2$/NDF: 36.4/34

In: 86.911+/-107.292 $\chi^2$/NDF:23.4/18

Out: -58.460+/-95.860 $\chi^2$/NDF:29.7/23

All: 6.071+/-71.485 $\chi^2$/NDF: 54.1/42

# asym_sam7_rms vs Slug, Sign Corrected




Right In: 328.567+/-0.093 $\chi^2$/NDF: 1958873.4/15

Left Out: 286.178+/-0.107 $\chi^2$/NDF:92913.1/4

Right Out: 305.988+/-0.088 $\chi^2$/NDF: 2527463.5/18

Left In: 294.033+/-0.130 $\chi^2$/NDF:129274.2/2

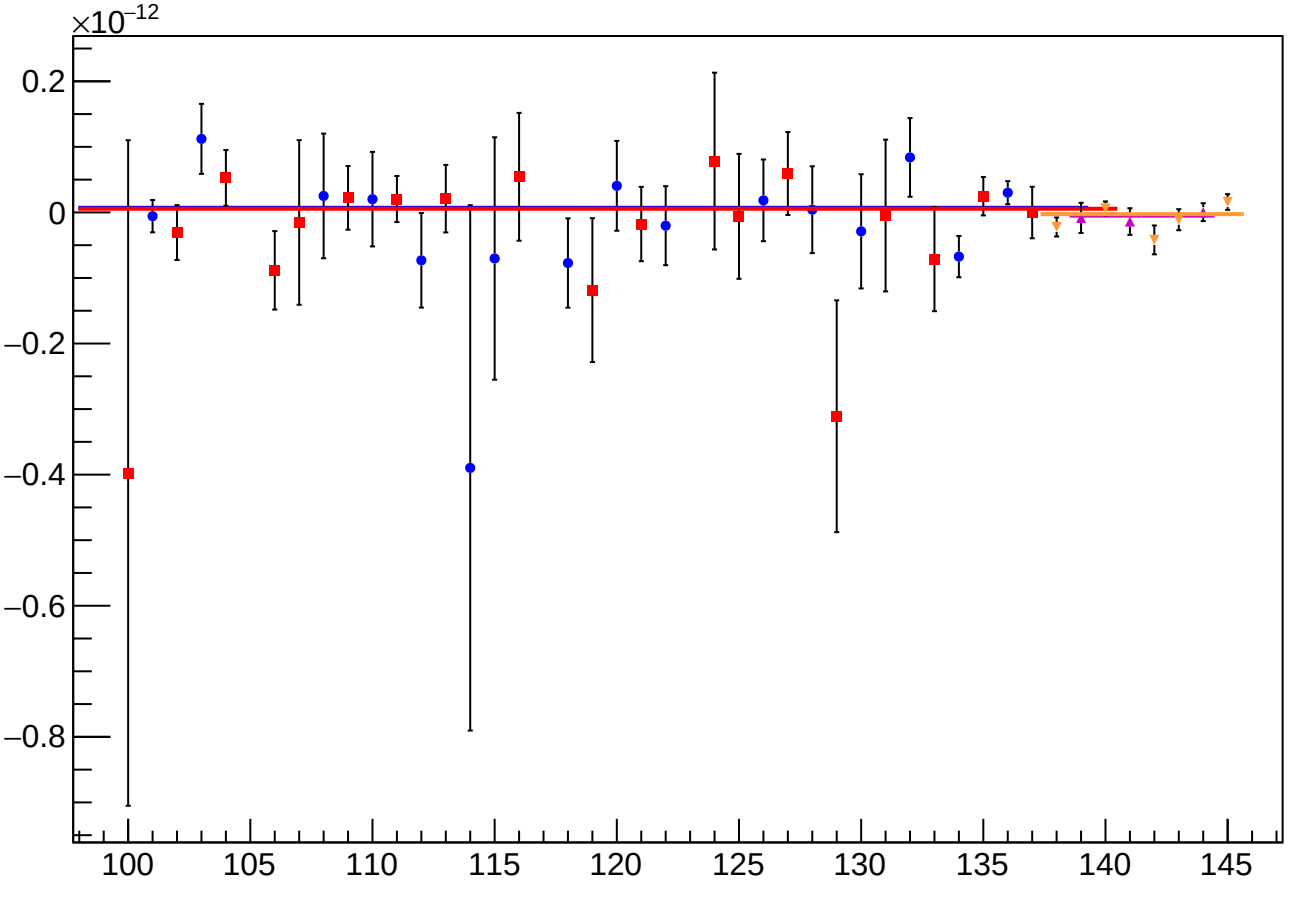
Left: 289.339+/-0.083 $\chi^2$/NDF: 224356.7/7

Right: 316.571+/-0.064 $\chi^2$/NDF: 4517458.9/34

In: 316.874+/-0.076 $\chi^2$/NDF:2134547.0/18

Out: 298.033+/-0.068 $\chi^2$/NDF:2640901.9/23

All: 306.397+/-0.051 $\chi^2$/NDF: 4809743.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.4/2

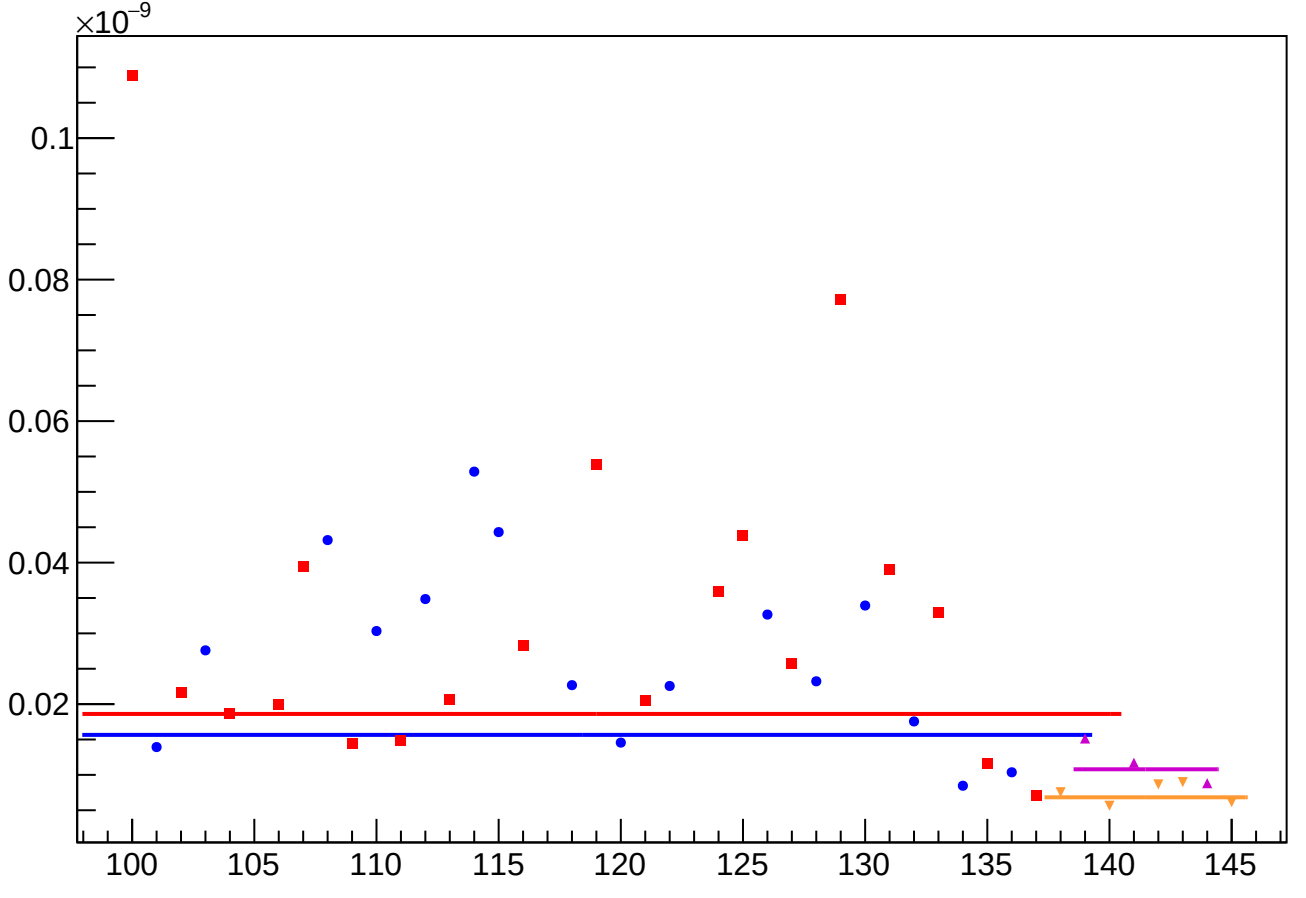
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:21.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 40.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1164380.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:86431.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1228542.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:117441.4/2

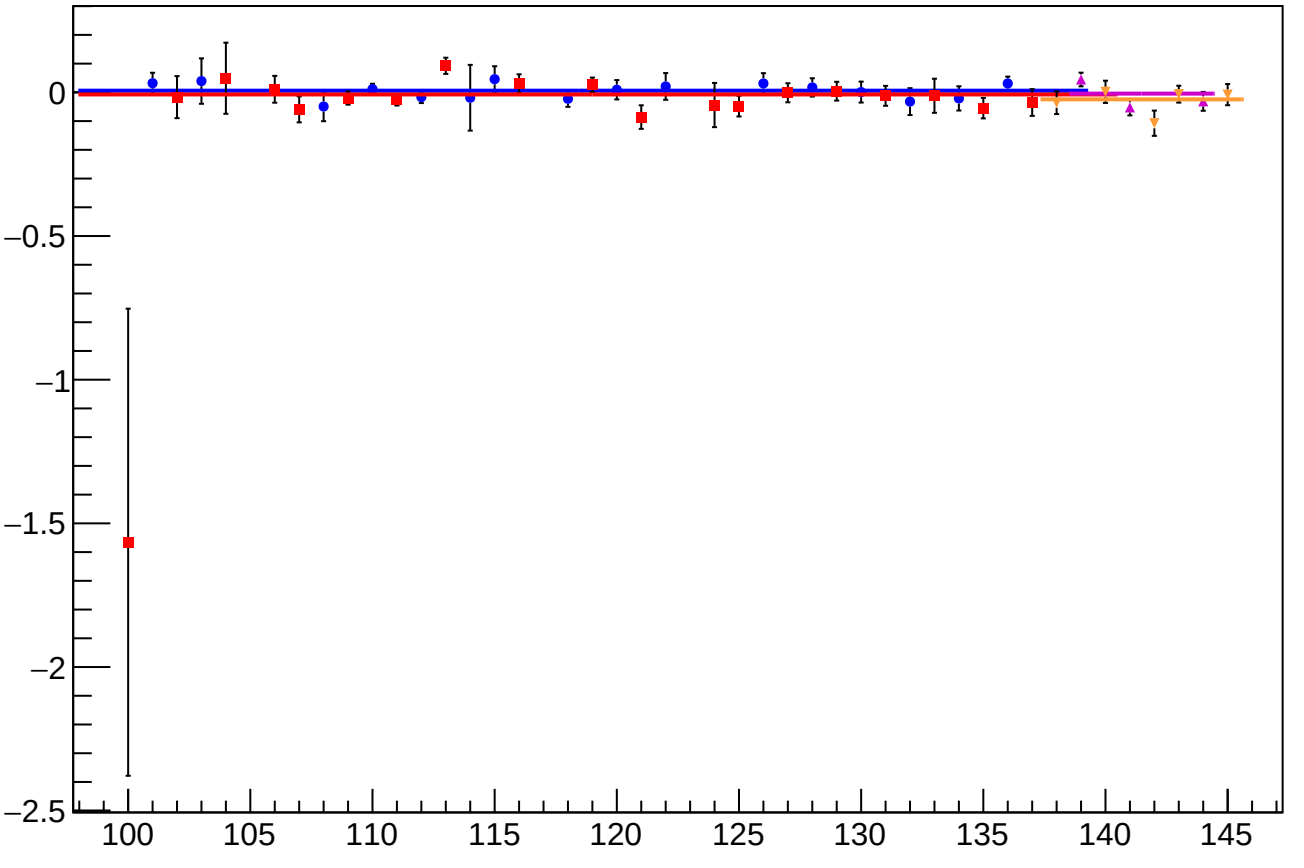
Left: 0.000+/-0.000 $\chi^2$/NDF: 425979.9/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 2454460.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:1493628.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2687075.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4555716.2/42




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: -0.024+/-0.016 $\chi^2$/NDF:4.7/4

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: -0.004+/-0.016 $\chi^2$/NDF:7.9/2

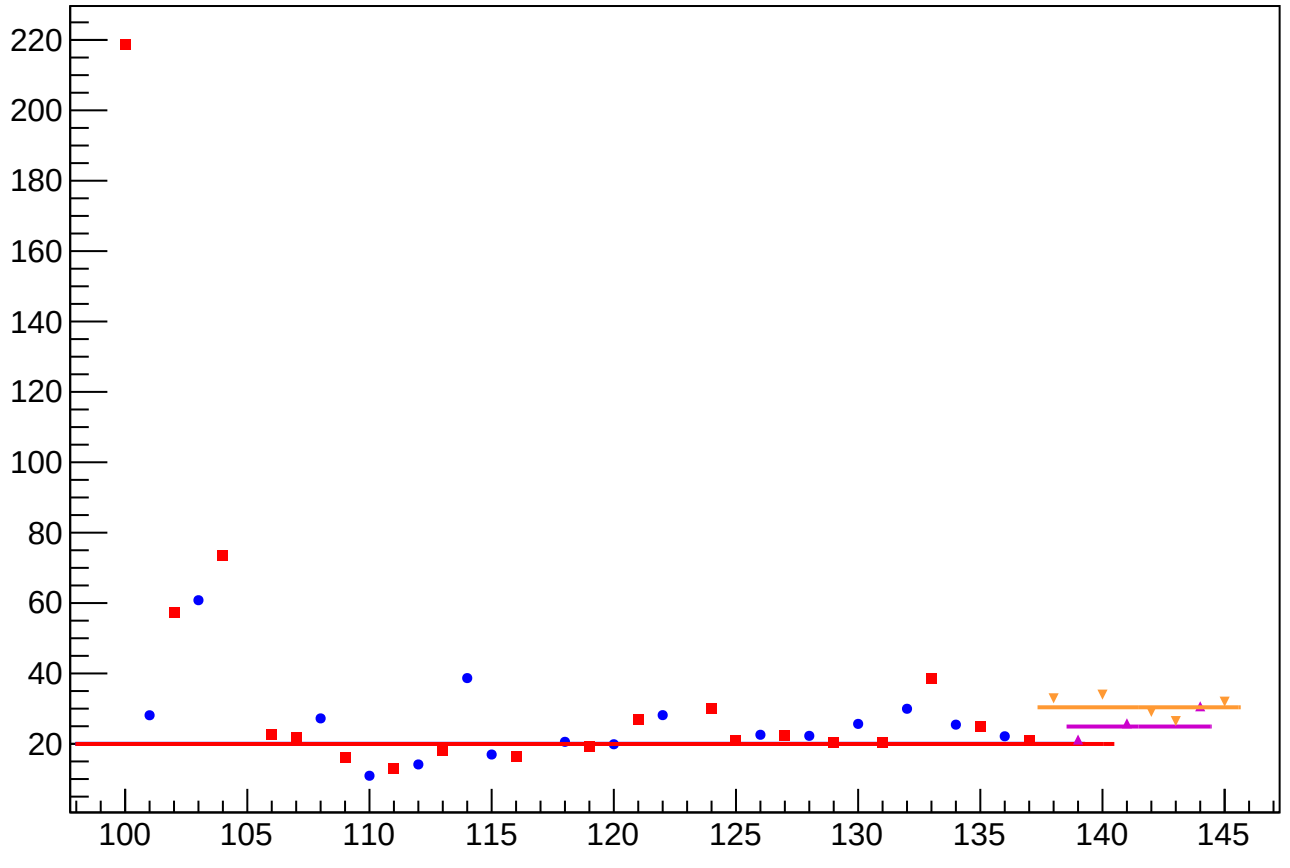
Left: -0.014+/-0.011 $\chi^2$/NDF: 13.4/7

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.004+/-0.007 $\chi^2$/NDF:16.1/18

Out: -0.011+/-0.007 $\chi^2$/NDF:35.4/23

All: -0.003+/-0.005 $\chi^2$/NDF: 53.4/42




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641371.9/15

Left Out: 30.384+/-0.012 $\chi^2$/NDF:66574.9/4

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716895.2/18

Left In: 24.916+/-0.011 $\chi^2$/NDF:111971.3/2

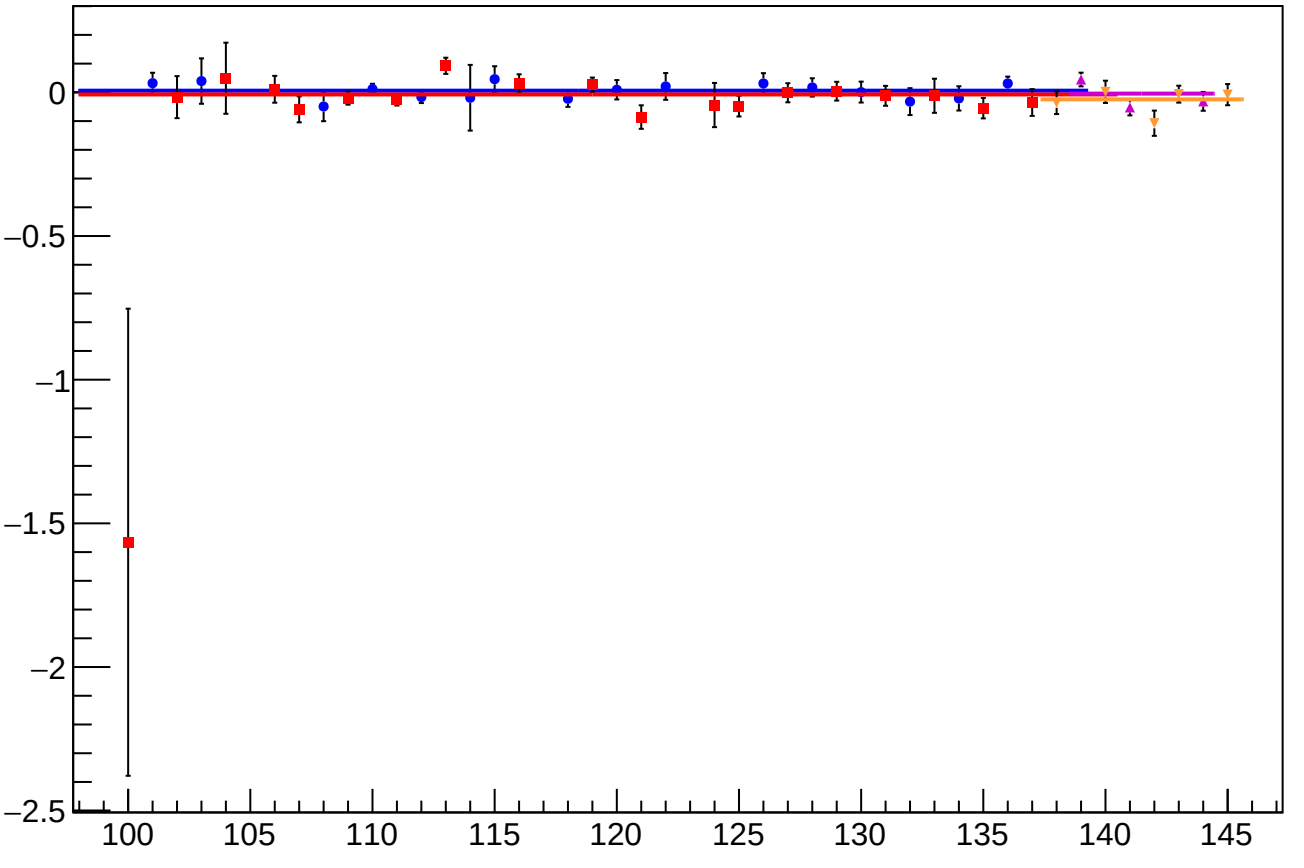
Left: 27.556+/-0.008 $\chi^2$/NDF: 293553.1/7

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358287.6/34

In: 21.032+/-0.005 $\chi^2$/NDF:1905427.0/18

Out: 22.004+/-0.005 $\chi^2$/NDF:2432874.1/23

All: 21.518+/-0.004 $\chi^2$/NDF: 4356251.3/42




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: -0.024+/-0.016 $\chi^2$/NDF:4.7/4

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: -0.004+/-0.016 $\chi^2$/NDF:7.9/2

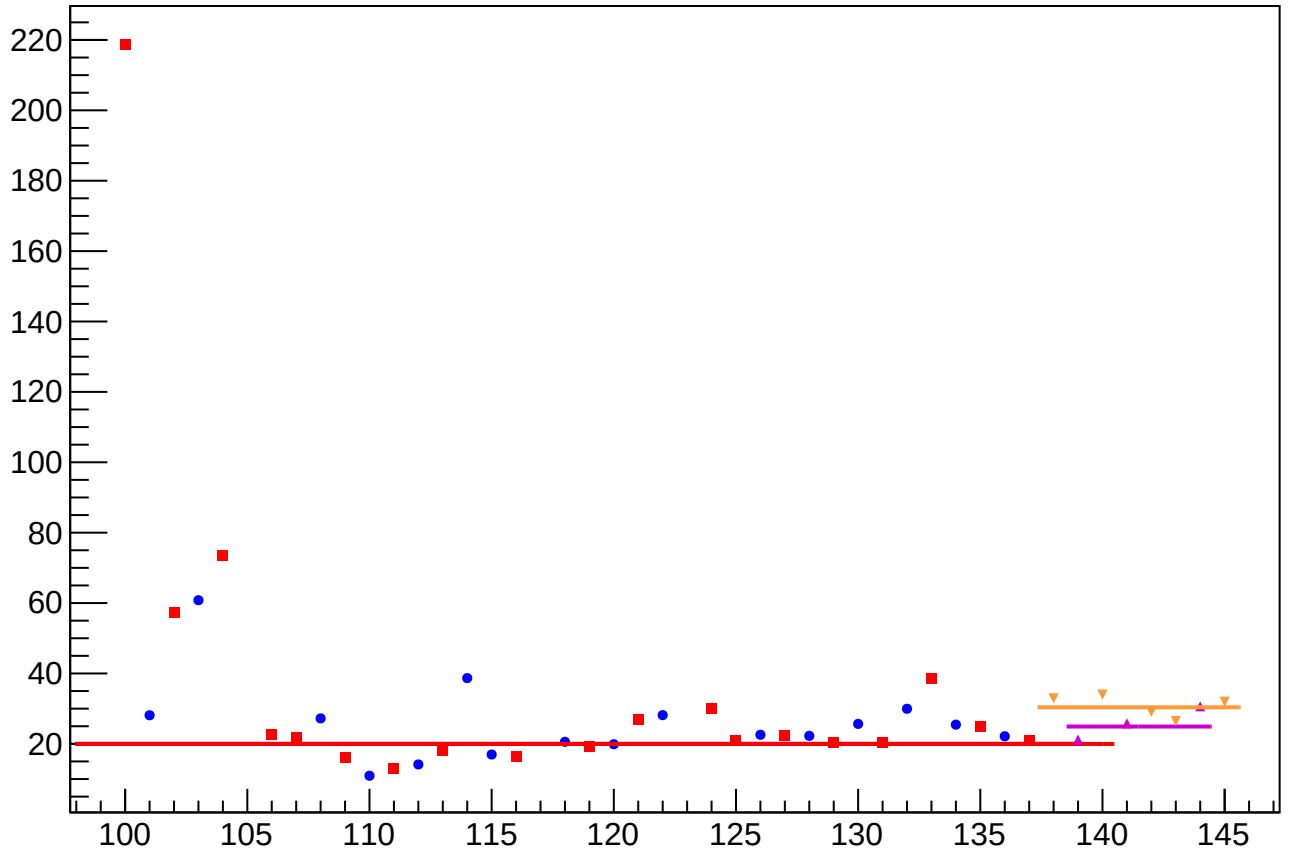
Left: -0.014+/-0.011 $\chi^2$/NDF: 13.4/7

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.004+/-0.007 $\chi^2$/NDF:16.1/18

Out: -0.011+/-0.007 $\chi^2$/NDF:35.4/23

All: -0.003+/-0.005 $\chi^2$/NDF: 53.4/42




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641371.9/15

Left Out: 30.384+/-0.012 $\chi^2$/NDF:66574.9/4

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716895.2/18

Left In: 24.916+/-0.011 $\chi^2$/NDF:111971.3/2

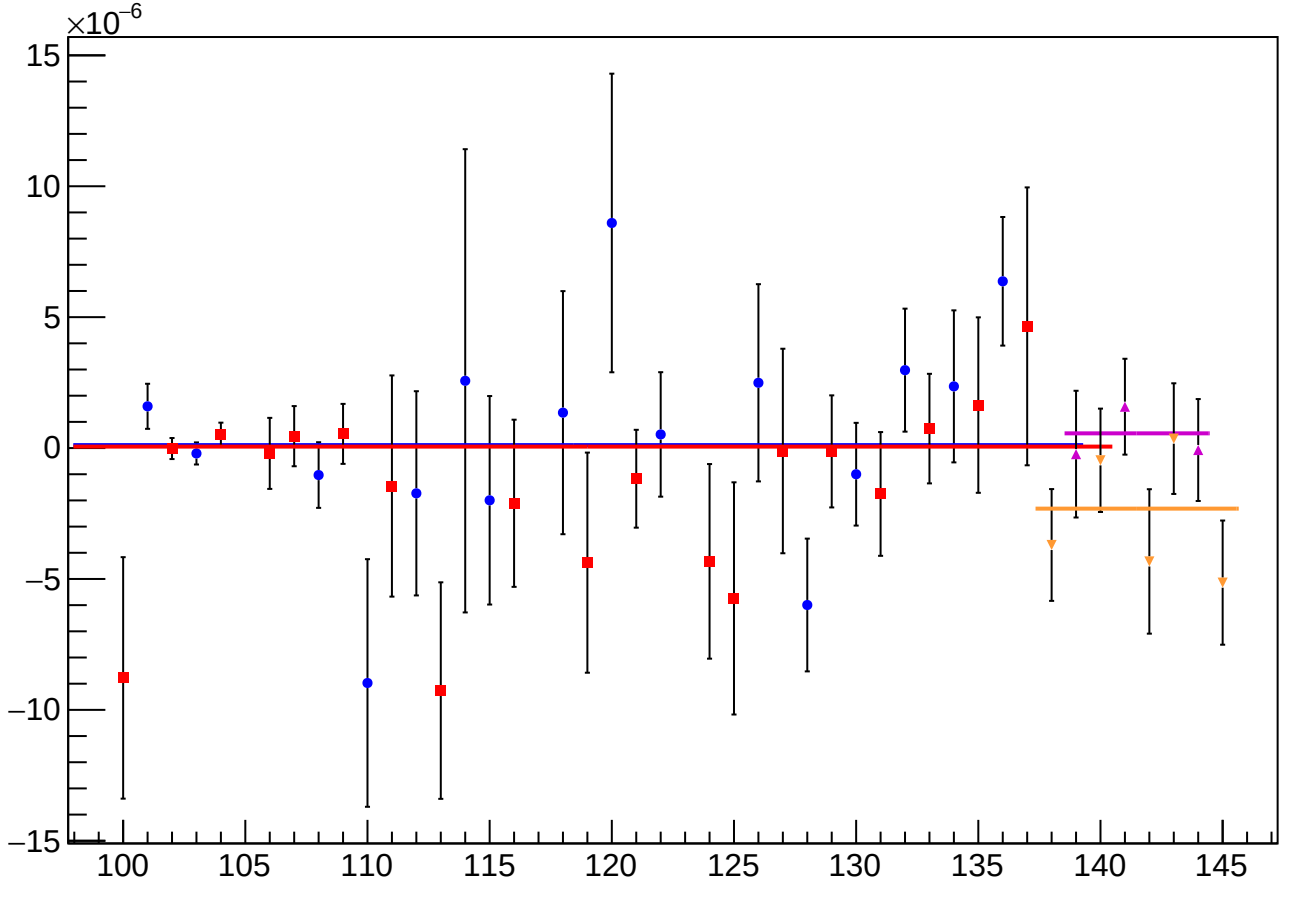
Left: 27.556+/-0.008 $\chi^2$/NDF: 293553.1/7

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358287.6/34

In: 21.032+/-0.005 $\chi^2$/NDF:1905427.0/18

Out: 22.004+/-0.005 $\chi^2$/NDF:2432874.1/23

All: 21.518+/-0.004 $\chi^2$/NDF: 4356251.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.5/2

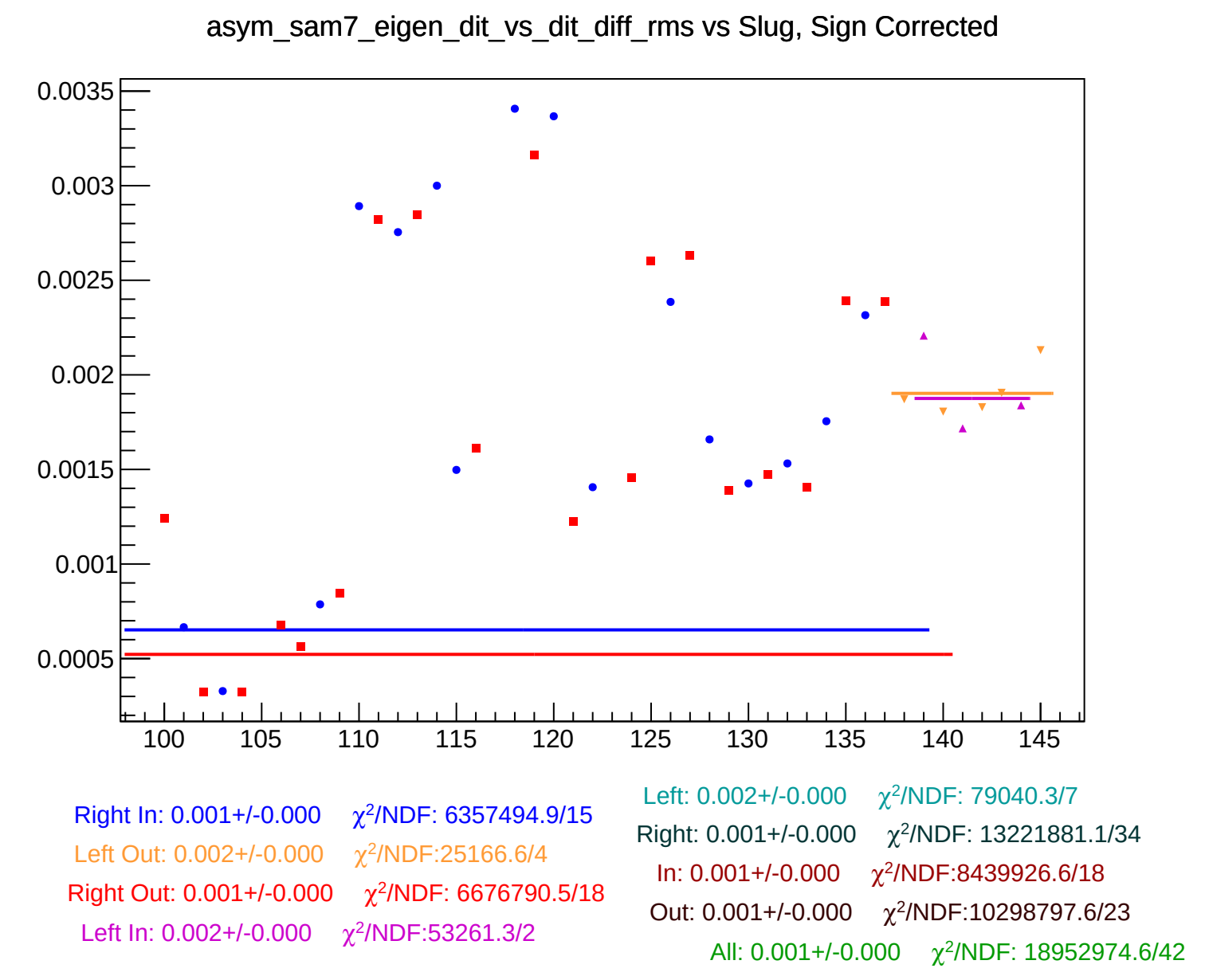
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.9/7

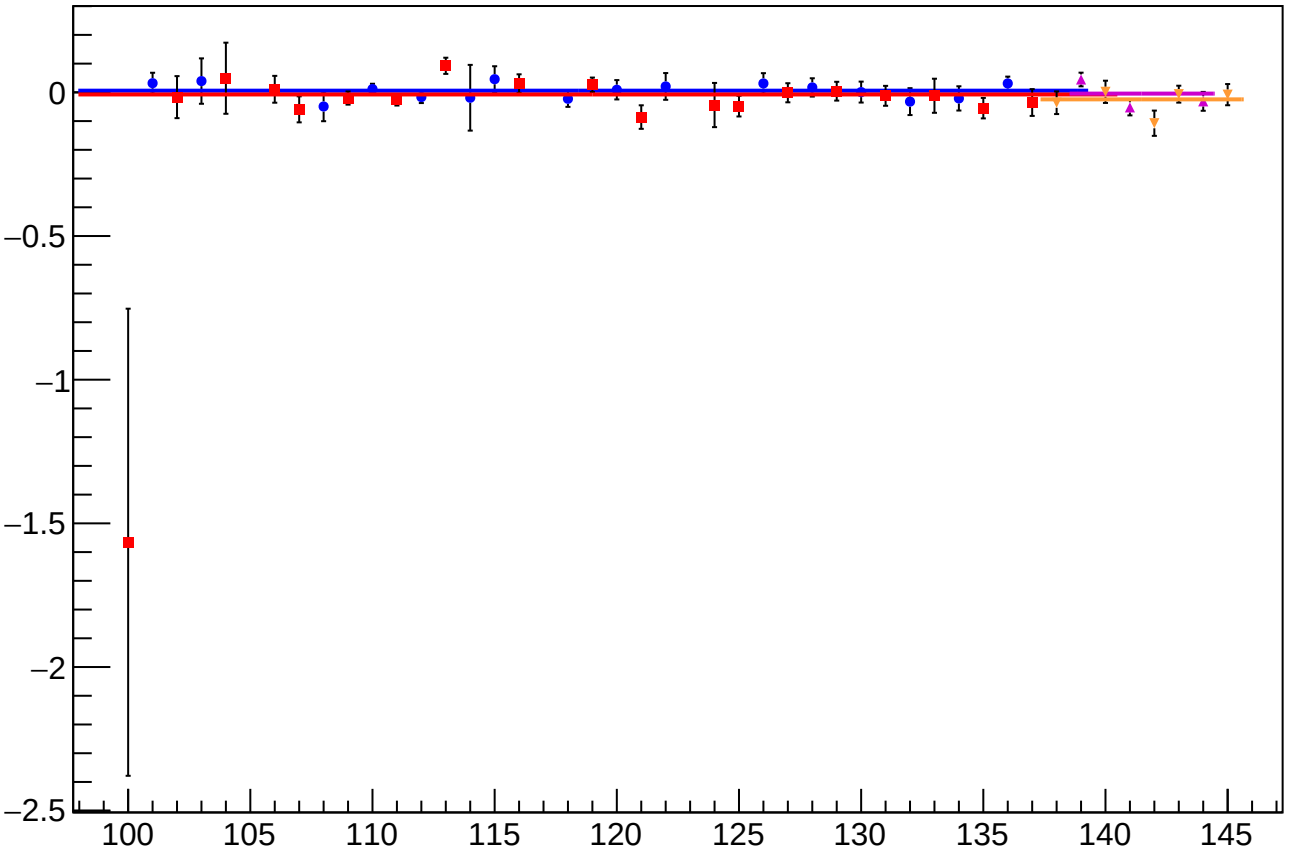
Right: 0.000+/-0.000 $\chi^2$/NDF: 43.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:26.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:27.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 54.3/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.001+/-0.000 χ²/NDF: 6357494.9/15
Left Out: 0.002+/-0.000 χ²/NDF:25166.6/4
Right Out: 0.001+/-0.000 χ²/NDF: 6676790.5/18
Left In: 0.002+/-0.000 χ²/NDF:53261.3/2
Left: 0.002+/-0.000 χ²/NDF: 79040.3/7
Right: 0.001+/-0.000 χ²/NDF: 13221881.1/34
In: 0.001+/-0.000 χ²/NDF:8439926.6/18
Out: 0.001+/-0.000 χ²/NDF:10298797.6/23
All: 0.001+/-0.000 χ²/NDF: 18952974.6/42




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: -0.024+/-0.016 $\chi^2$/NDF:4.7/4

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: -0.004+/-0.016 $\chi^2$/NDF:7.9/2

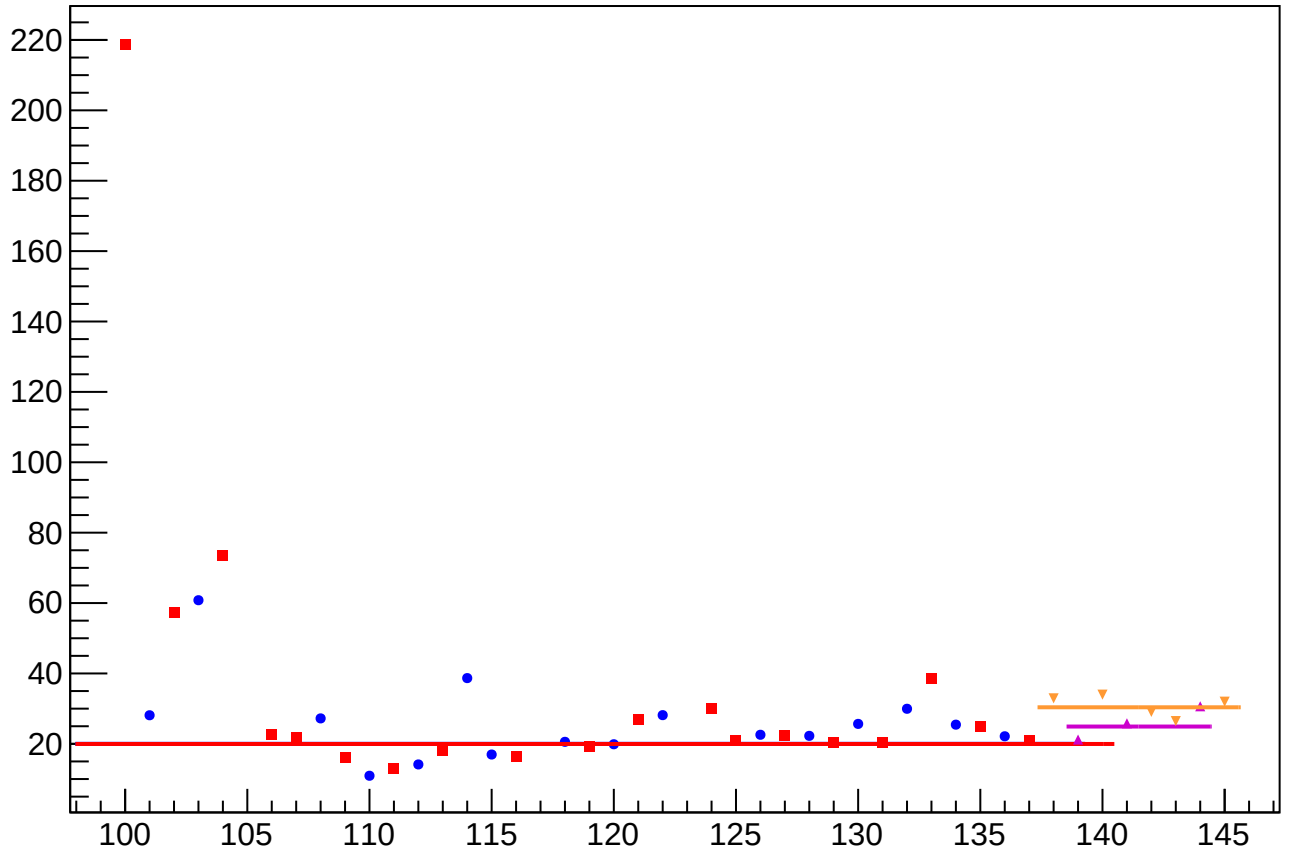
Left: -0.014+/-0.011 $\chi^2$/NDF: 13.4/7

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.004+/-0.007 $\chi^2$/NDF:16.1/18

Out: -0.011+/-0.007 $\chi^2$/NDF:35.4/23

All: -0.003+/-0.005 $\chi^2$/NDF: 53.4/42




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641197.3/15

Left Out: 30.384+/-0.012 $\chi^2$/NDF:66568.2/4

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716830.0/18

Left In: 24.916+/-0.011 $\chi^2$/NDF:111984.6/2

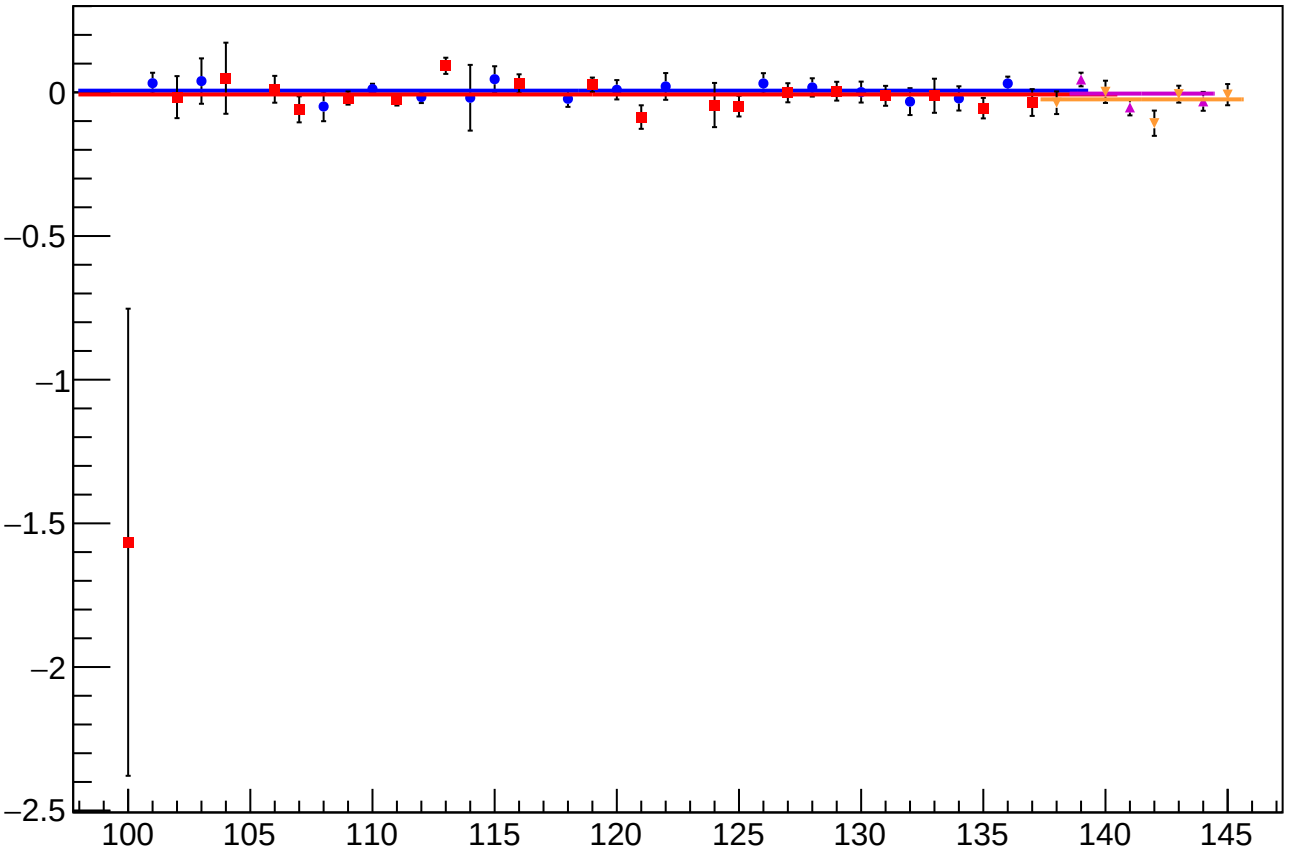
Left: 27.556+/-0.008 $\chi^2$/NDF: 293570.2/7

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358048.3/34

In: 21.032+/-0.005 $\chi^2$/NDF:1905238.8/18

Out: 22.005+/-0.005 $\chi^2$/NDF:2432818.6/23

All: 21.519+/-0.004 $\chi^2$/NDF: 4355997.7/42




Right In: 0.006+/-0.008 $\chi^2$/NDF: 7.9/15

Left Out: -0.024+/-0.016 $\chi^2$/NDF:4.7/4

Right Out: -0.007+/-0.008 $\chi^2$/NDF: 29.8/18

Left In: -0.004+/-0.016 $\chi^2$/NDF:7.9/2

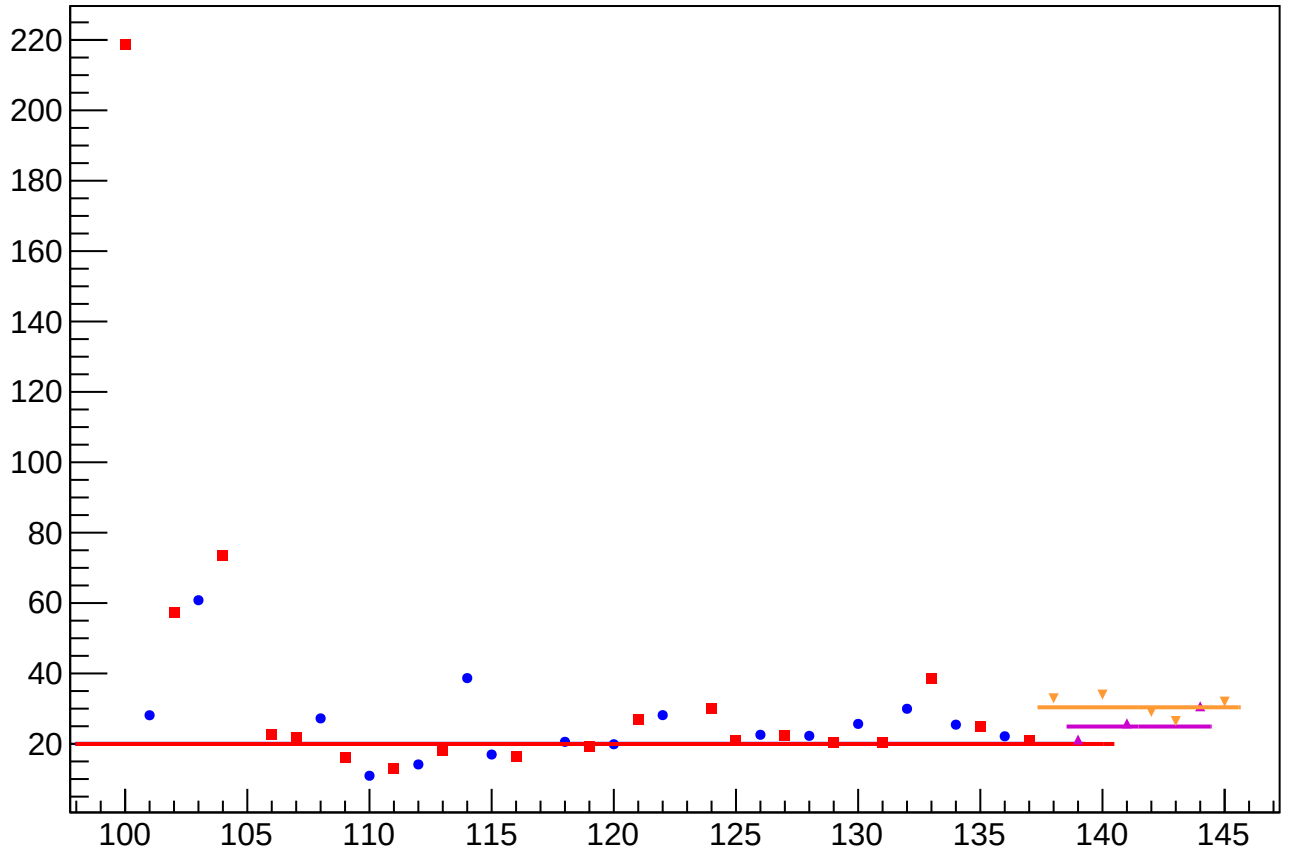
Left: -0.014+/-0.011 $\chi^2$/NDF: 13.4/7

Right: -0.001+/-0.006 $\chi^2$/NDF: 39.0/34

In: 0.004+/-0.007 $\chi^2$/NDF:16.1/18

Out: -0.011+/-0.007 $\chi^2$/NDF:35.4/23

All: -0.003+/-0.005 $\chi^2$/NDF: 53.4/42




Right In: 20.000+/-0.006 $\chi^2$/NDF: 1641197.3/15

Left Out: 30.384+/-0.012 $\chi^2$/NDF:66568.2/4

Right Out: 19.963+/-0.006 $\chi^2$/NDF: 1716830.0/18

Left In: 24.916+/-0.011 $\chi^2$/NDF:111984.6/2

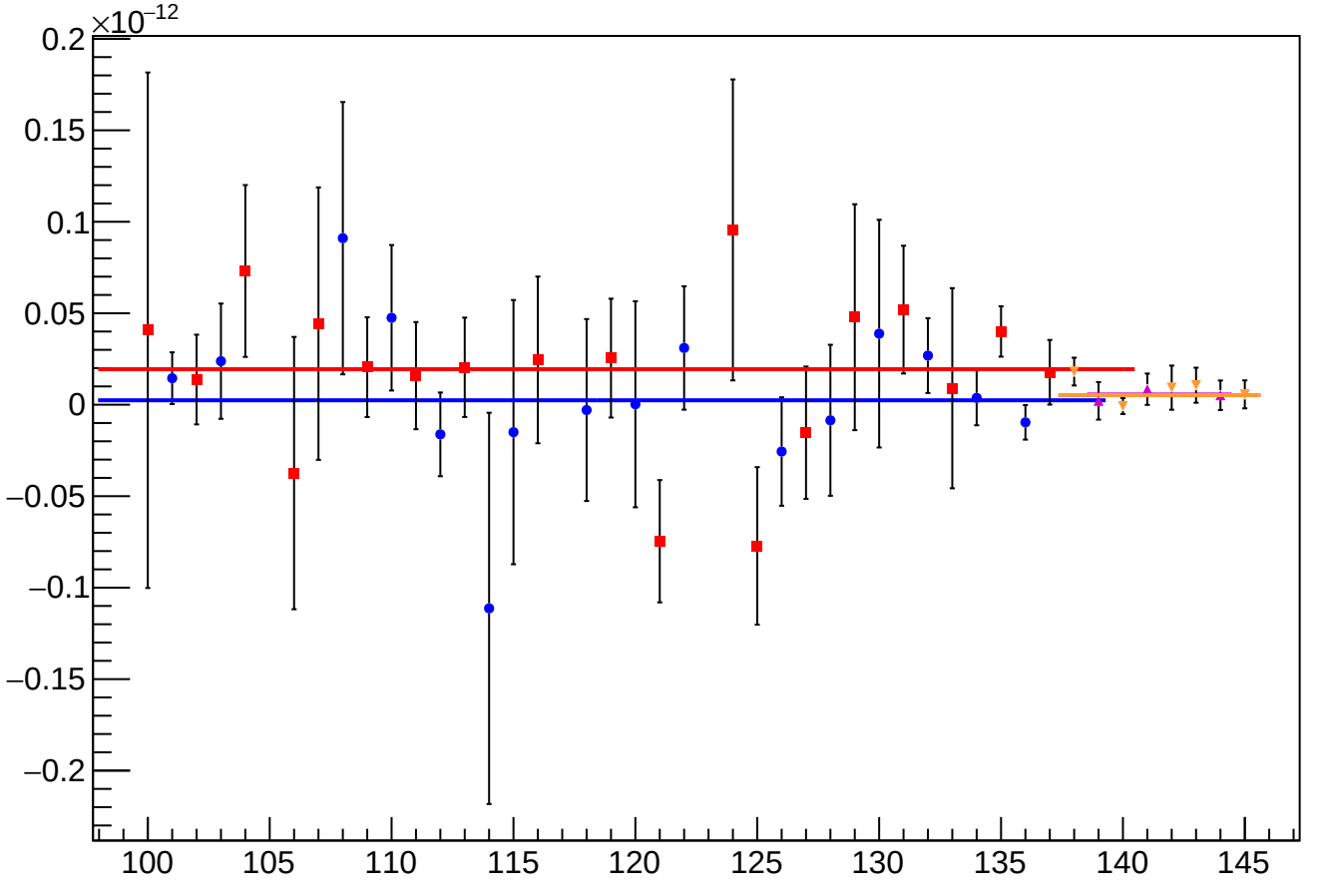
Left: 27.556+/-0.008 $\chi^2$/NDF: 293570.2/7

Right: 19.981+/-0.004 $\chi^2$/NDF: 3358048.3/34

In: 21.032+/-0.005 $\chi^2$/NDF:1905238.8/18

Out: 22.005+/-0.005 $\chi^2$/NDF:2432818.6/23

All: 21.519+/-0.004 $\chi^2$/NDF: 4355997.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.2/2

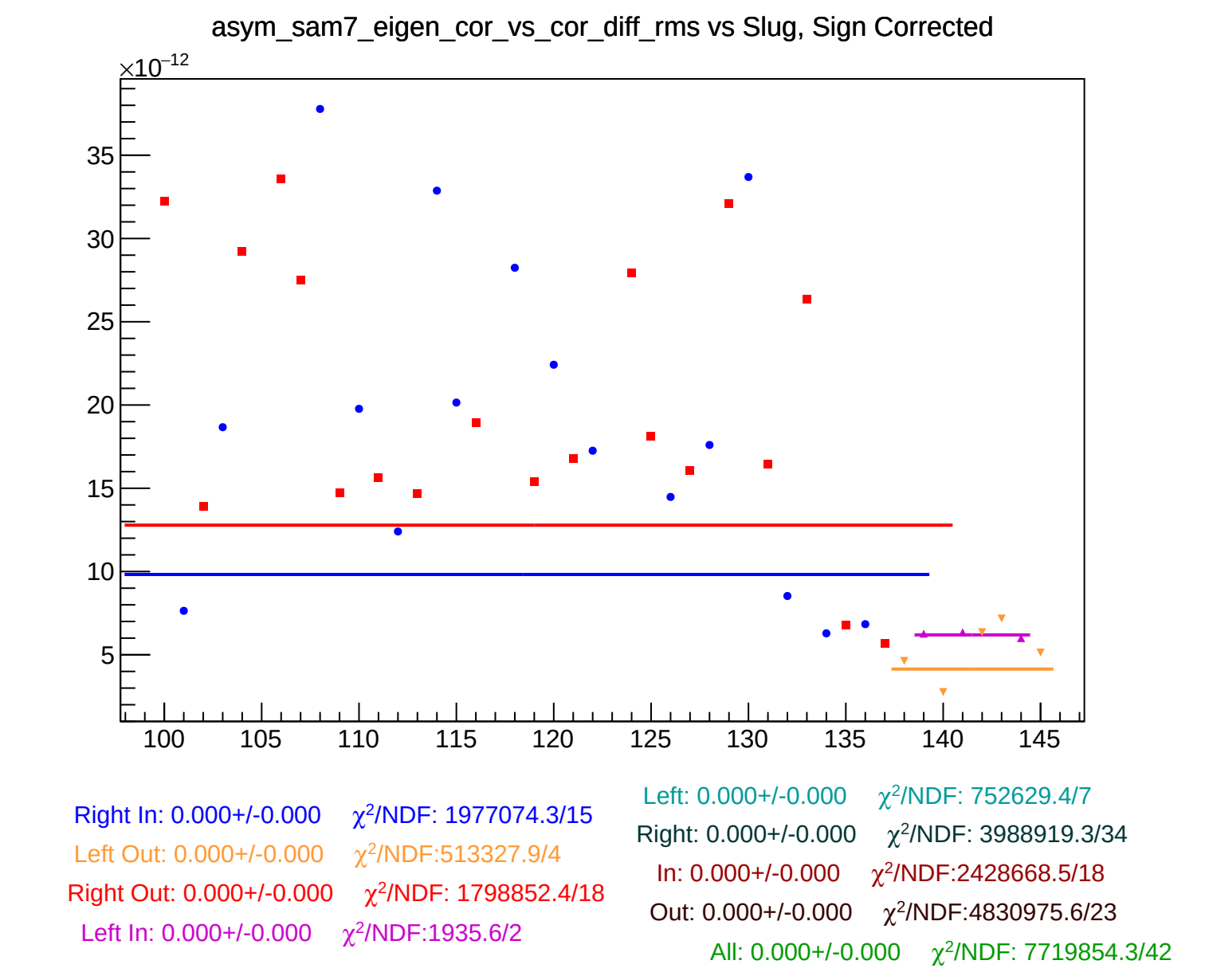
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 34.6/34

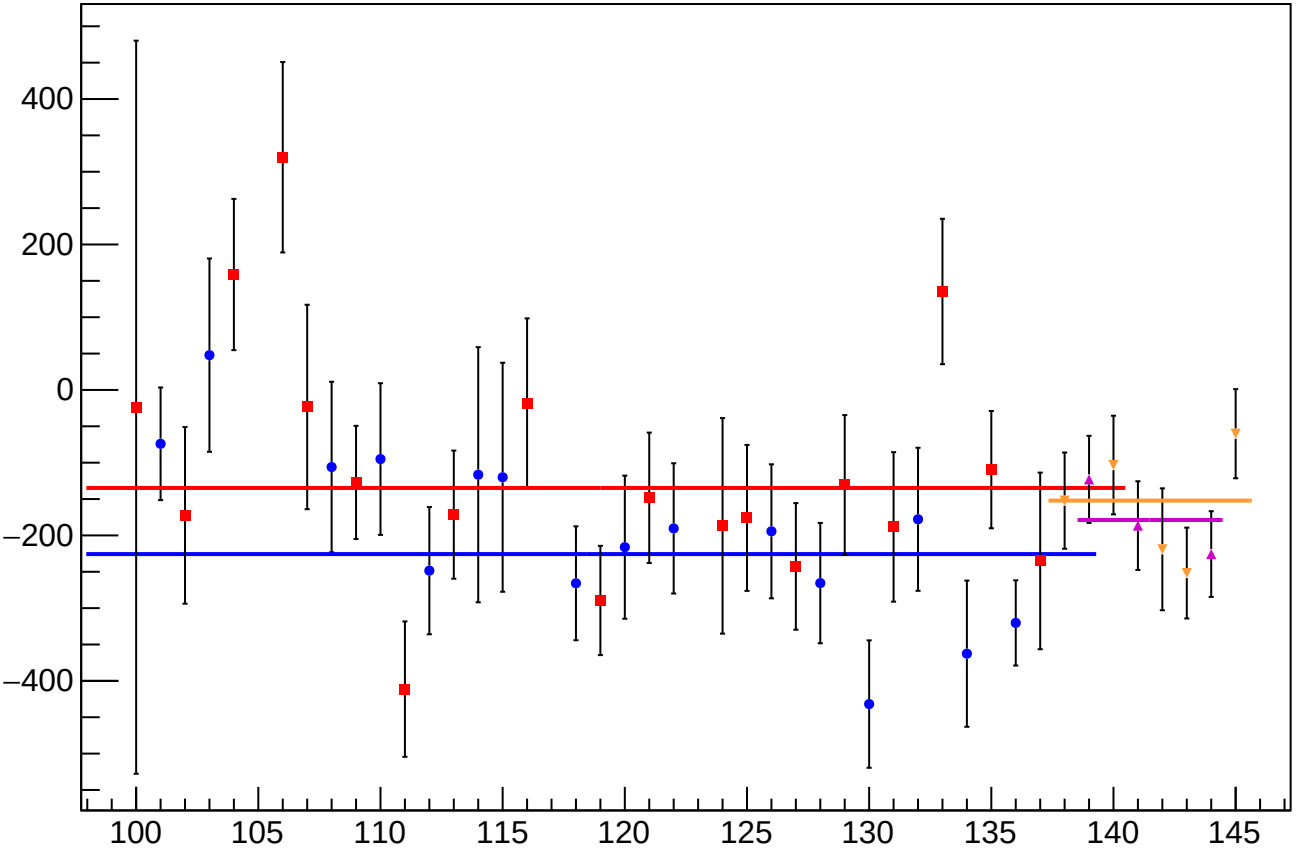
In: 0.000+/-0.000 $\chi^2$/NDF:11.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:28.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 40.6/42


asym_sam7_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
35
30
25
20
15
10
5
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1977074.3/15
Left Out: 0.000+/-0.000 χ²/NDF:513327.9/4
Right Out: 0.000+/-0.000 χ²/NDF: 1798852.4/18
Left In: 0.000+/-0.000 χ²/NDF:1935.6/2
Left: 0.000+/-0.000 χ²/NDF: 752629.4/7
Right: 0.000+/-0.000 χ²/NDF: 3988919.3/34
In: 0.000+/-0.000 χ²/NDF:2428668.5/18
Out: 0.000+/-0.000 χ²/NDF:4830975.6/23
All: 0.000+/-0.000 χ²/NDF: 7719854.3/42

# reg_asym_sam8_mean vs Slug, Sign Corrected




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -152.123+/-29.995 $\chi^2$/NDF:6.0/4

Right Out: -134.762+/-23.192 $\chi^2$/NDF: 45.3/18

Left In: -178.807+/-34.591 $\chi^2$/NDF:1.5/2

Left: -163.576+/-22.662 $\chi^2$/NDF: 7.8/7

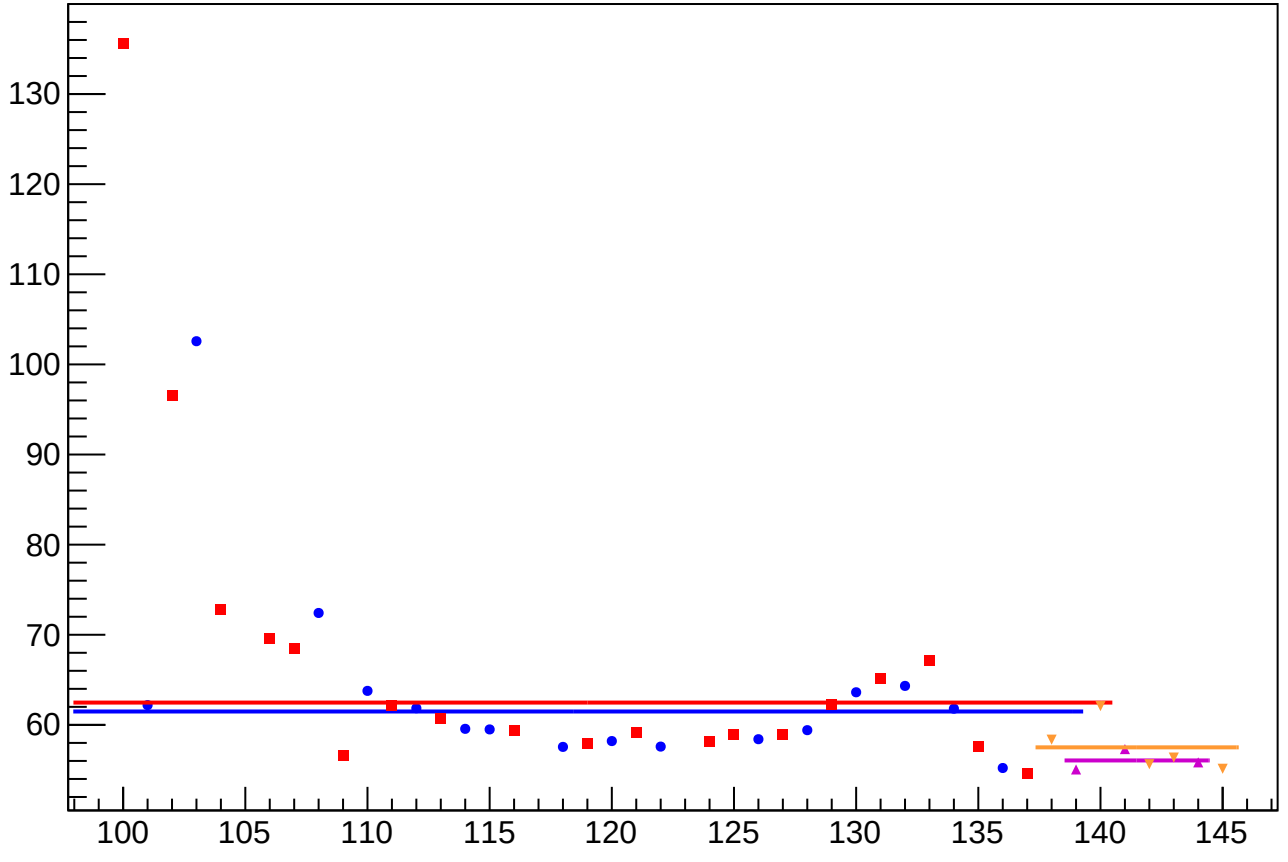
Right: -180.371+/-16.373 $\chi^2$/NDF: 75.6/34

In: -211.215+/-19.221 $\chi^2$/NDF:25.4/18

Out: -141.258+/-18.347 $\chi^2$/NDF:51.4/23

All: -174.610+/-13.272 $\chi^2$/NDF: 83.8/42

# reg_asym_sam8_rms vs Slug, Sign Corrected




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250669.2/15

Left Out: 57.507+/-0.021 $\chi^2$/NDF:14108.4/4

Right Out: 62.476+/-0.016 $\chi^2$/NDF: 281148.3/18

Left In: 56.054+/-0.024 $\chi^2$/NDF:1437.6/2

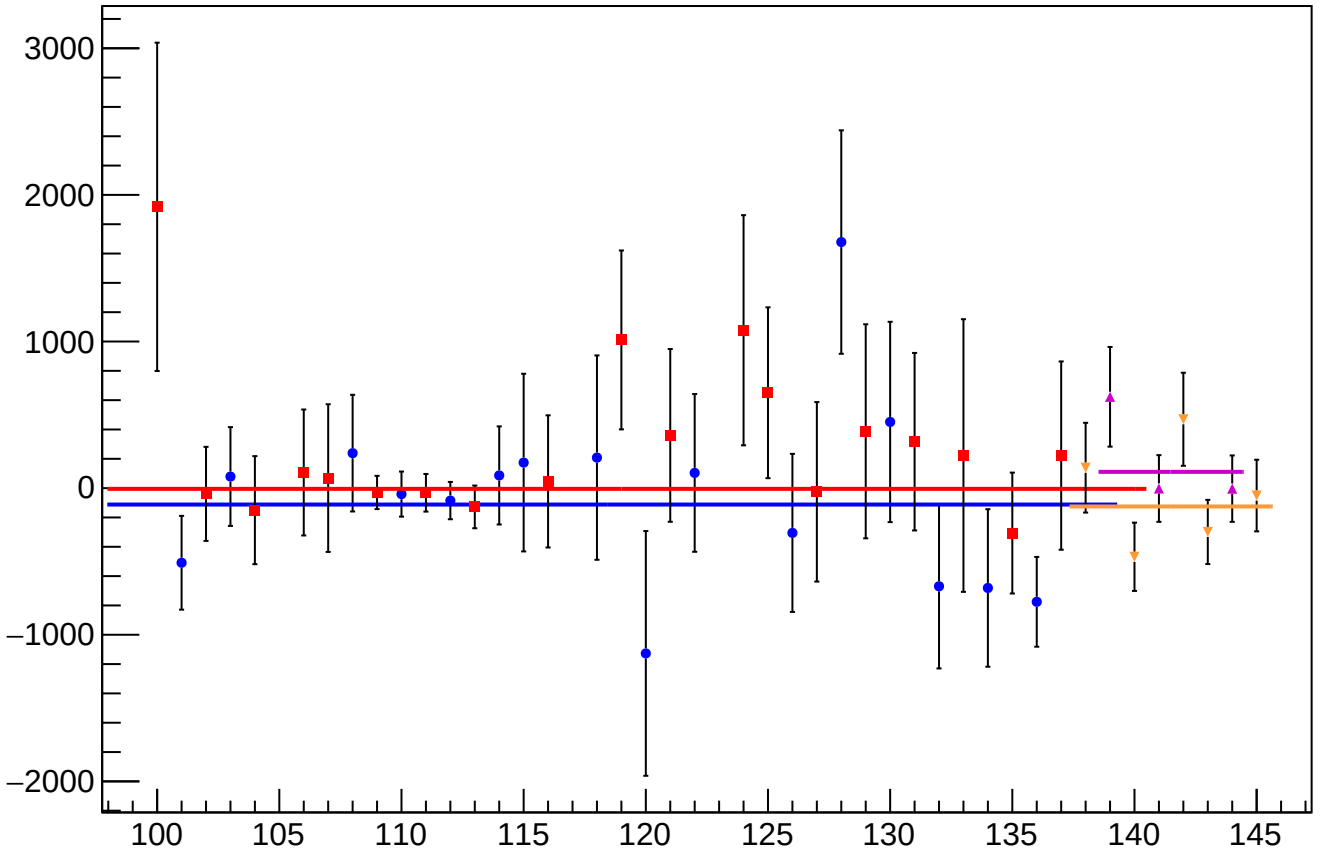
Left: 56.883+/-0.016 $\chi^2$/NDF: 17561.2/7

Right: 61.979+/-0.012 $\chi^2$/NDF: 533645.0/34

In: 59.809+/-0.014 $\chi^2$/NDF:286201.8/18

Out: 60.617+/-0.013 $\chi^2$/NDF:329604.9/23

All: 60.231+/-0.009 $\chi^2$/NDF: 617656.3/42




Right In: -111.885+/-76.212 $\chi^2$/NDF: 18.5/15

Left Out: -124.871+/-114.193 $\chi^2$/NDF:7.2/4

Right Out: -4.893+/-63.933 $\chi^2$/NDF: 11.6/18

Left In: 111.119+/-145.100 $\chi^2$/NDF:2.8/2

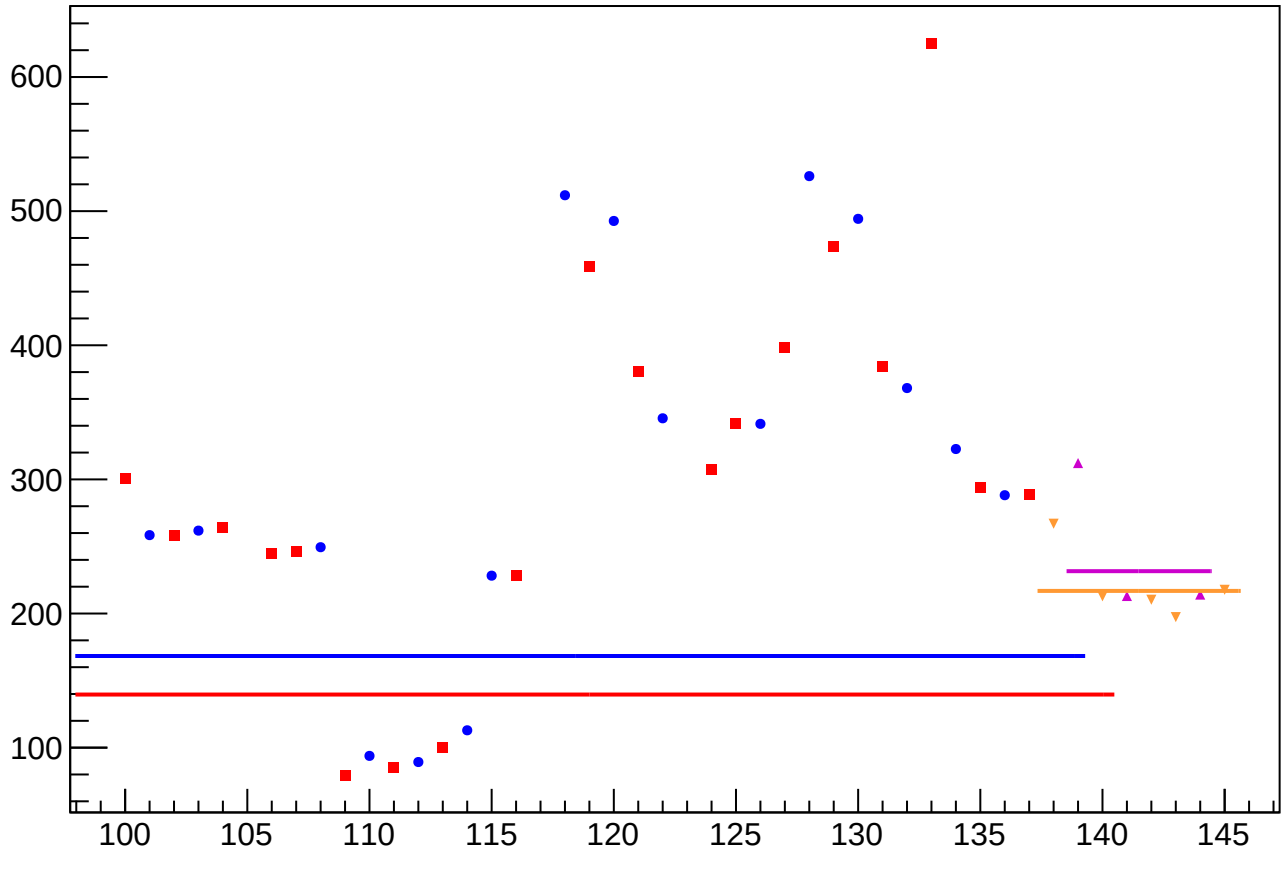
Left: -34.611+/-89.736 $\chi^2$/NDF: 11.6/7

Right: -49.085+/-48.981 $\chi^2$/NDF: 31.3/34

In: -63.665+/-67.472 $\chi^2$/NDF:23.1/18

Out: -33.525+/-55.785 $\chi^2$/NDF:19.6/23

All: -45.763+/-42.993 $\chi^2$/NDF: 42.8/42




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544046.8/15

Left Out: 216.863+/-0.081 $\chi^2$/NDF:71003.1/4

Right Out: 139.594+/-0.045 $\chi^2$/NDF: 5154153.5/18

Left In: 231.576+/-0.103 $\chi^2$/NDF:137607.4/2

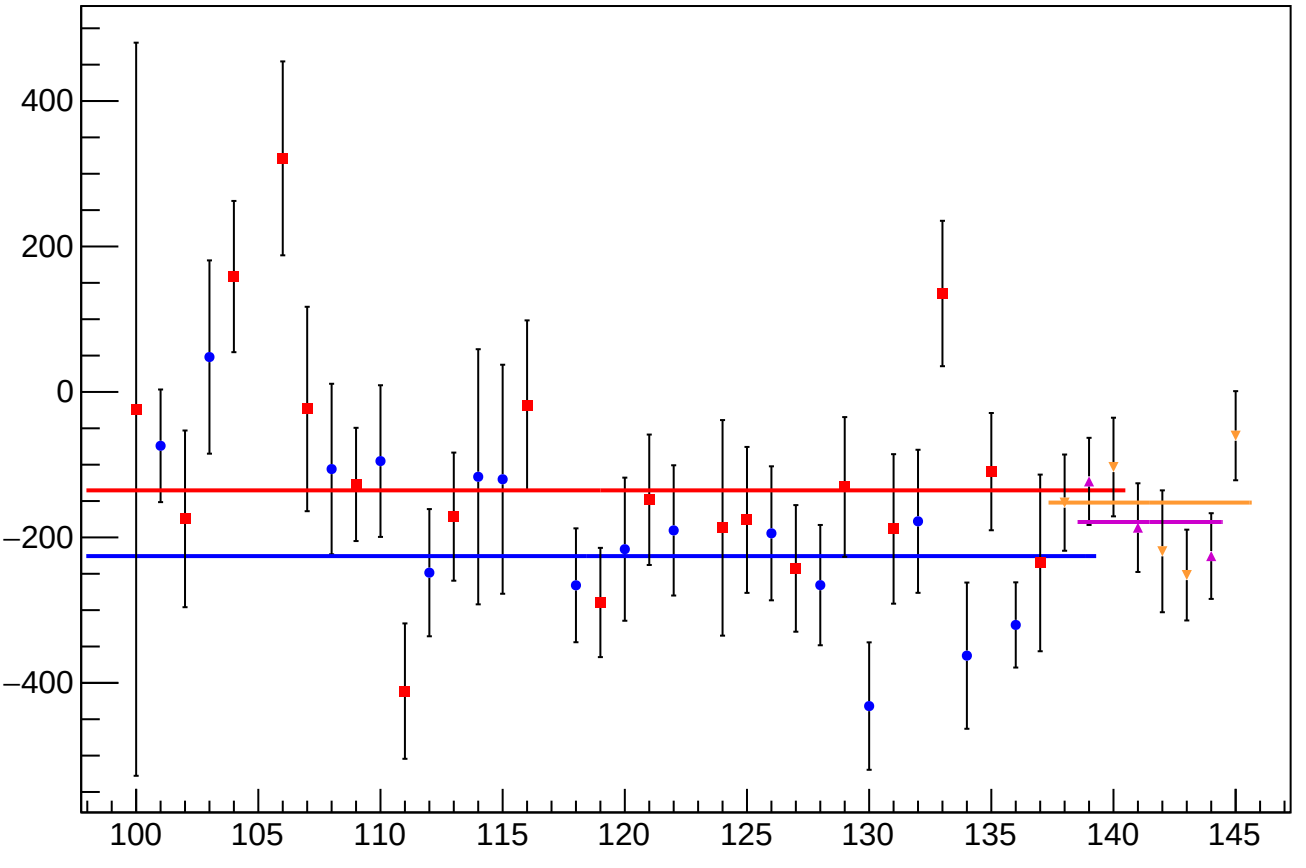
Left: 222.490+/-0.063 $\chi^2$/NDF: 221307.7/7

Right: 151.463+/-0.035 $\chi^2$/NDF: 9865092.4/34

In: 182.005+/-0.048 $\chi^2$/NDF:4979474.5/18

Out: 158.034+/-0.039 $\chi^2$/NDF:5922362.2/23

All: 167.767+/-0.030 $\chi^2$/NDF: 11051783.6/42




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -152.118+/-29.995 $\chi^2$/NDF:6.0/4

Right Out: -135.311+/-23.205 $\chi^2$/NDF: 44.9/18

Left In: -178.809+/-34.591 $\chi^2$/NDF:1.5/2

Left: -163.574+/-22.662 $\chi^2$/NDF: 7.8/7

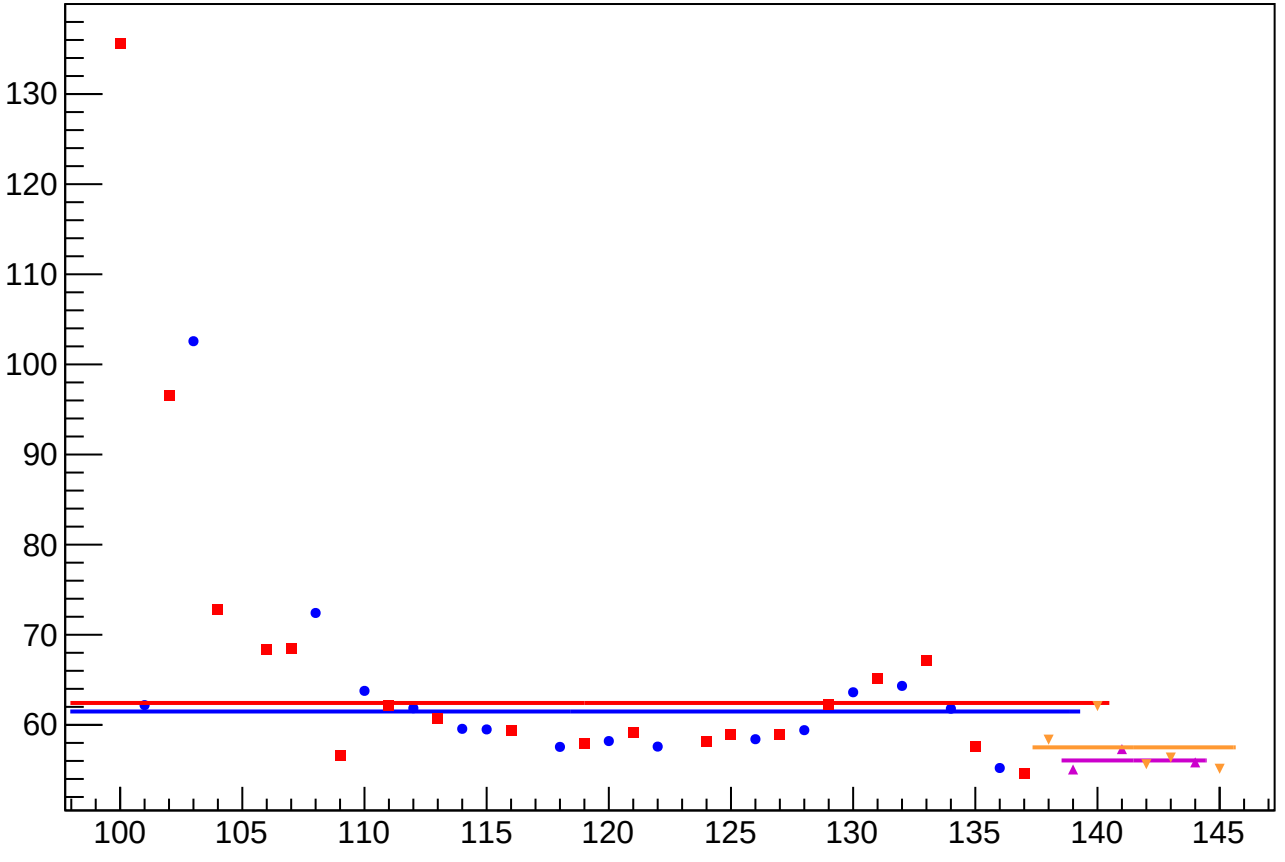
Right: -180.670+/-16.378 $\chi^2$/NDF: 75.1/34

In: -211.217+/-19.221 $\chi^2$/NDF:25.4/18

Out: -141.604+/-18.354 $\chi^2$/NDF:51.0/23

All: -174.804+/-13.274 $\chi^2$/NDF: 83.3/42

# cor_asym_sam8_rms vs Slug, Sign Corrected




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250671.7/15

Left Out: 57.507+/-0.021 $\chi^2$/NDF:14108.4/4

Right Out: 62.433+/-0.016 $\chi^2$/NDF: 279408.8/18

Left In: 56.054+/-0.024 $\chi^2$/NDF:1437.6/2

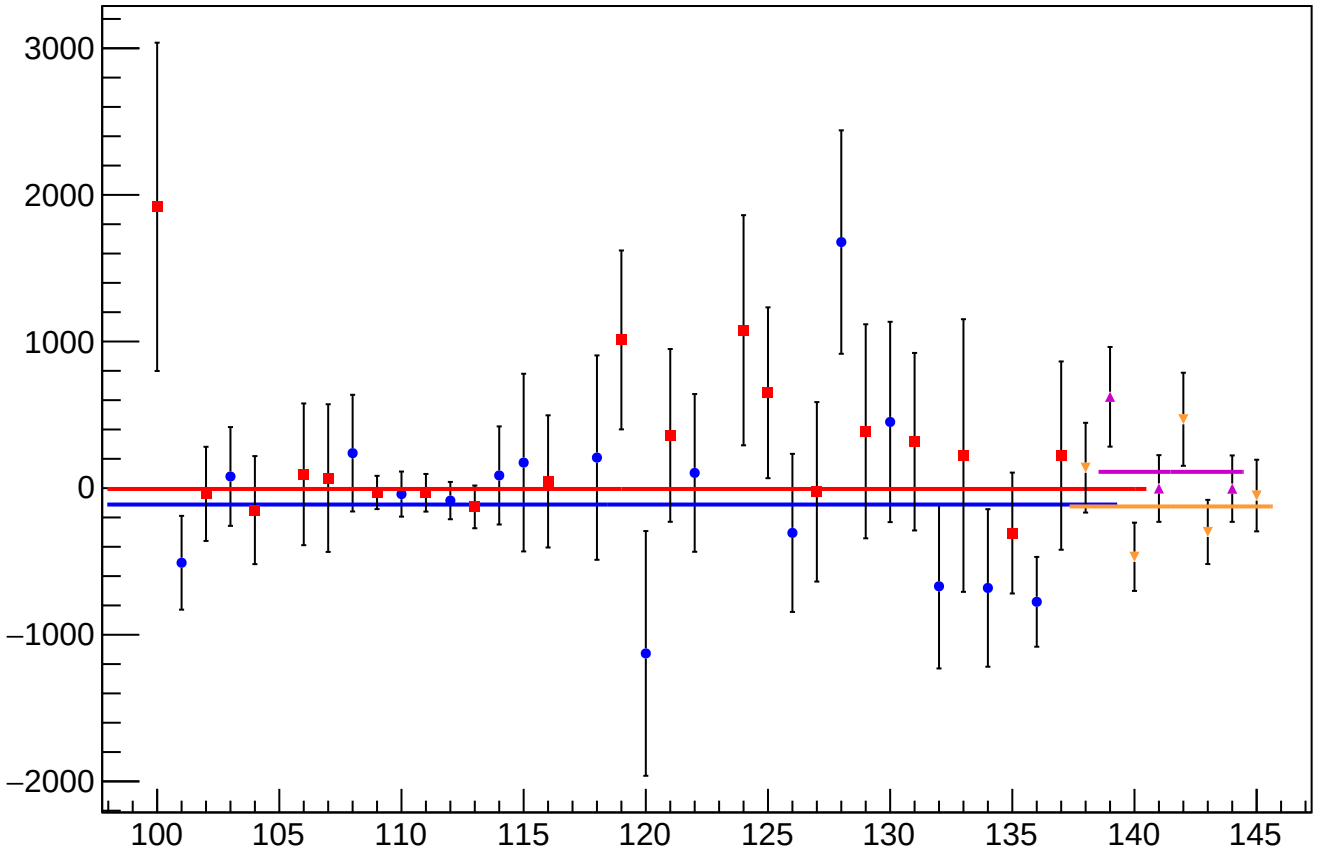
Left: 56.883+/-0.016 $\chi^2$/NDF: 17561.2/7

Right: 61.958+/-0.012 $\chi^2$/NDF: 531751.4/34

In: 59.809+/-0.014 $\chi^2$/NDF:286204.4/18

Out: 60.588+/-0.013 $\chi^2$/NDF:327257.8/23

All: 60.217+/-0.009 $\chi^2$/NDF: 615183.9/42




Right In: -111.866+/-76.213 $\chi^2$/NDF: 18.5/15

Left Out: -124.867+/-114.192 $\chi^2$/NDF:7.2/4

Right Out: -5.616+/-64.085 $\chi^2$/NDF: 11.6/18

Left In: 111.114+/-145.100 $\chi^2$/NDF:2.8/2

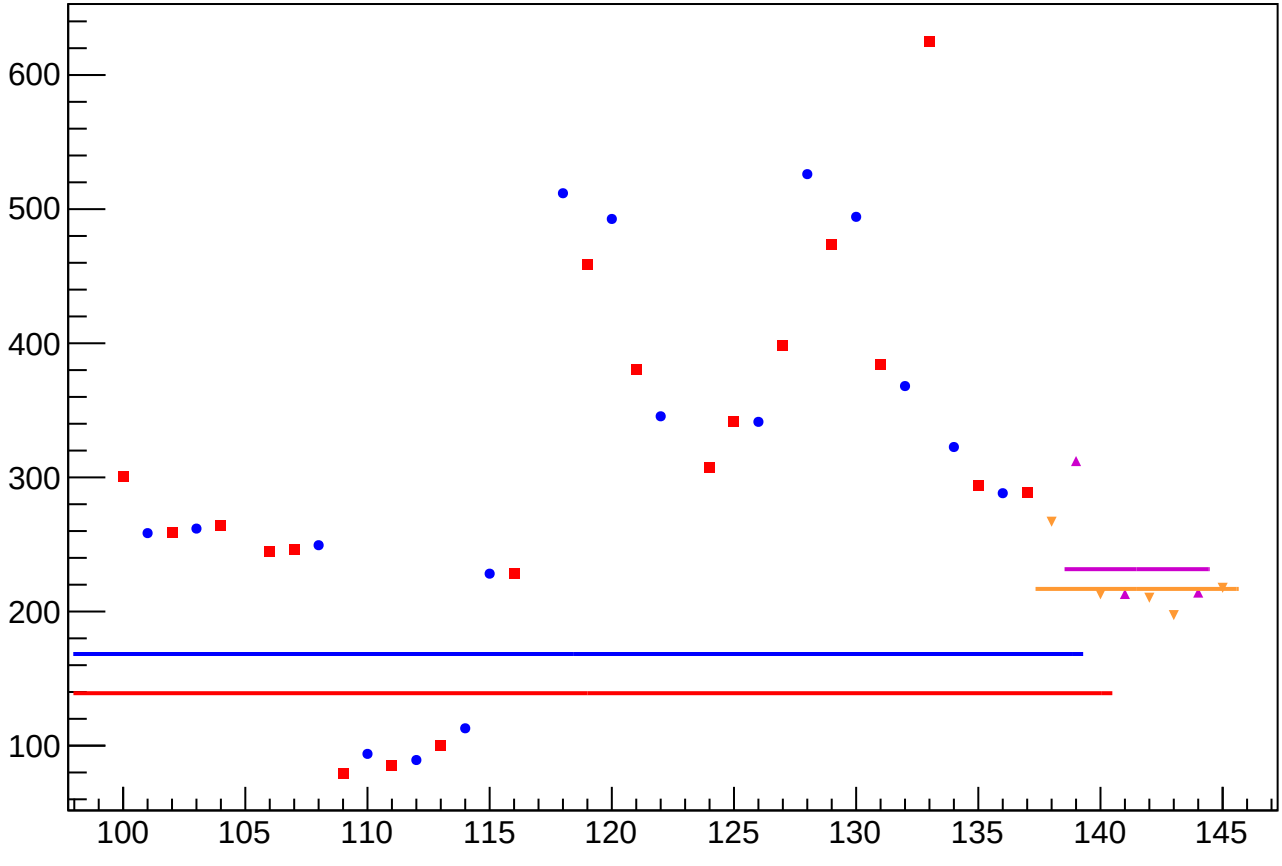
Left: -34.612+/-89.736 $\chi^2$/NDF: 11.6/7

Right: -49.624+/-49.049 $\chi^2$/NDF: 31.2/34

In: -63.652+/-67.472 $\chi^2$/NDF:23.1/18

Out: -34.178+/-55.886 $\chi^2$/NDF:19.6/23

All: -46.171+/-43.039 $\chi^2$/NDF: 42.8/42




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544100.8/15

Left Out: 216.863+/-0.081 $\chi^2$/NDF:71001.8/4

Right Out: 139.105+/-0.045 $\chi^2$/NDF: 5130011.5/18

Left In: 231.576+/-0.103 $\chi^2$/NDF:137607.6/2

Left: 222.490+/-0.063 $\chi^2$/NDF: 221307.2/7

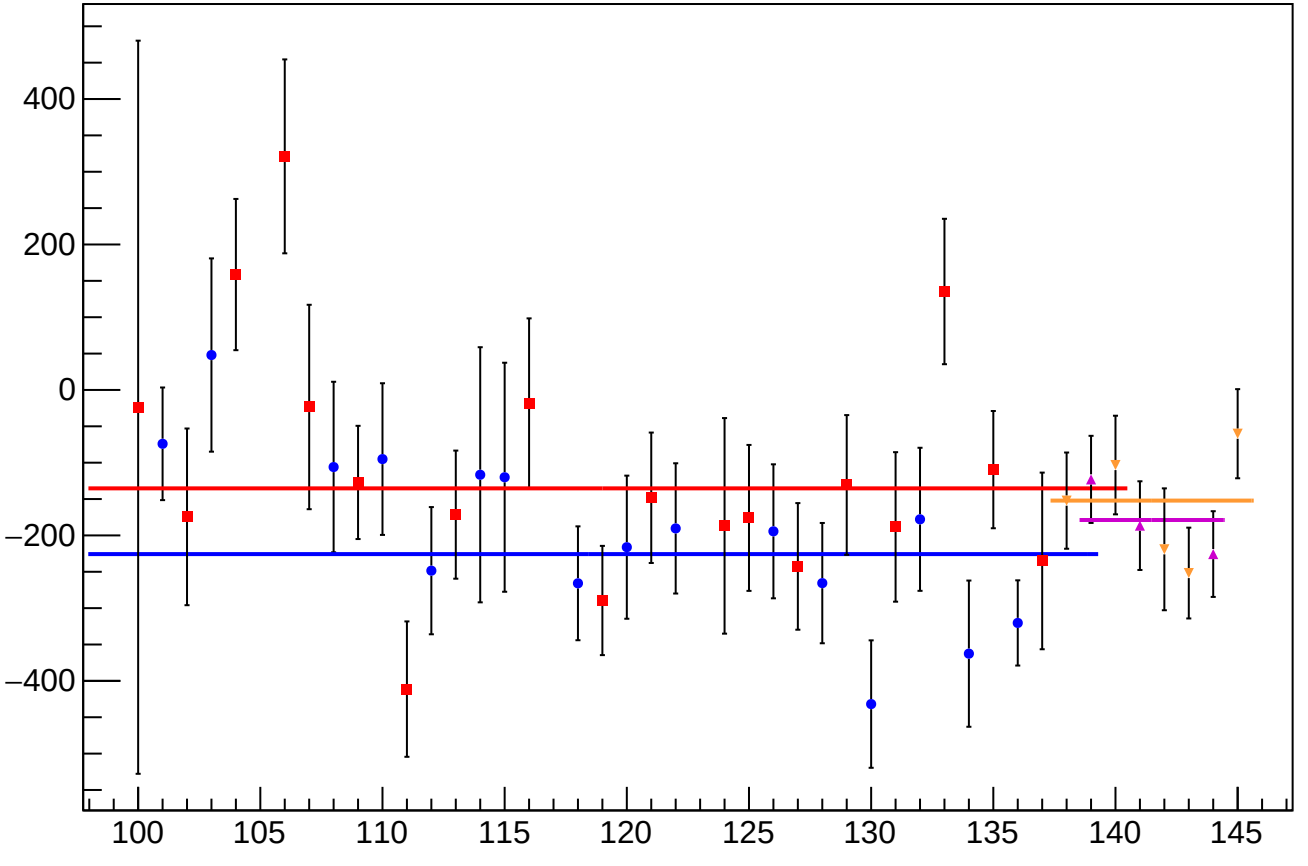
Right: 151.210+/-0.035 $\chi^2$/NDF: 9846393.6/34

In: 182.005+/-0.048 $\chi^2$/NDF:4979526.1/18

Out: 157.729+/-0.040 $\chi^2$/NDF:5906262.6/23

All: 167.607+/-0.030 $\chi^2$/NDF: 11039352.3/42

# eigen_cor_asym_sam8_mean vs Slug, Sign Corrected




Right In: -225.692+/-23.118 $\chi^2$/NDF: 22.6/15

Left Out: -152.118+/-29.995 $\chi^2$/NDF:6.0/4

Right Out: -135.311+/-23.205 $\chi^2$/NDF: 44.9/18

Left In: -178.809+/-34.591 $\chi^2$/NDF:1.5/2

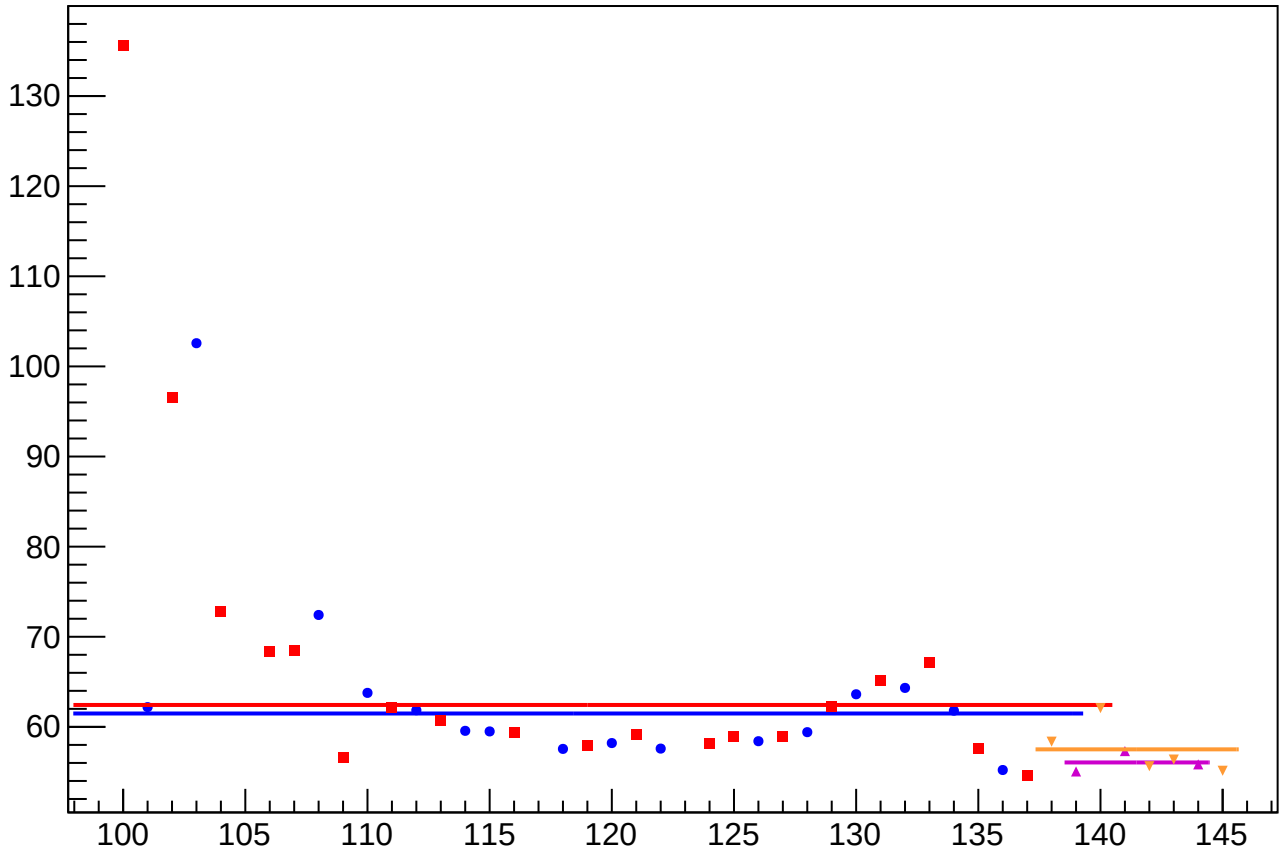
Left: -163.574+/-22.662 $\chi^2$/NDF: 7.8/7

Right: -180.670+/-16.378 $\chi^2$/NDF: 75.1/34

In: -211.217+/-19.221 $\chi^2$/NDF:25.4/18

Out: -141.604+/-18.354 $\chi^2$/NDF:51.0/23

All: -174.804+/-13.274 $\chi^2$/NDF: 83.3/42




Right In: 61.486+/-0.016 $\chi^2$/NDF: 250671.7/15

Left Out: 57.507+/-0.021 $\chi^2$/NDF:14108.4/4

Right Out: 62.433+/-0.016 $\chi^2$/NDF: 279408.8/18

Left In: 56.054+/-0.024 $\chi^2$/NDF:1437.6/2

Left: 56.883+/-0.016 $\chi^2$/NDF: 17561.2/7

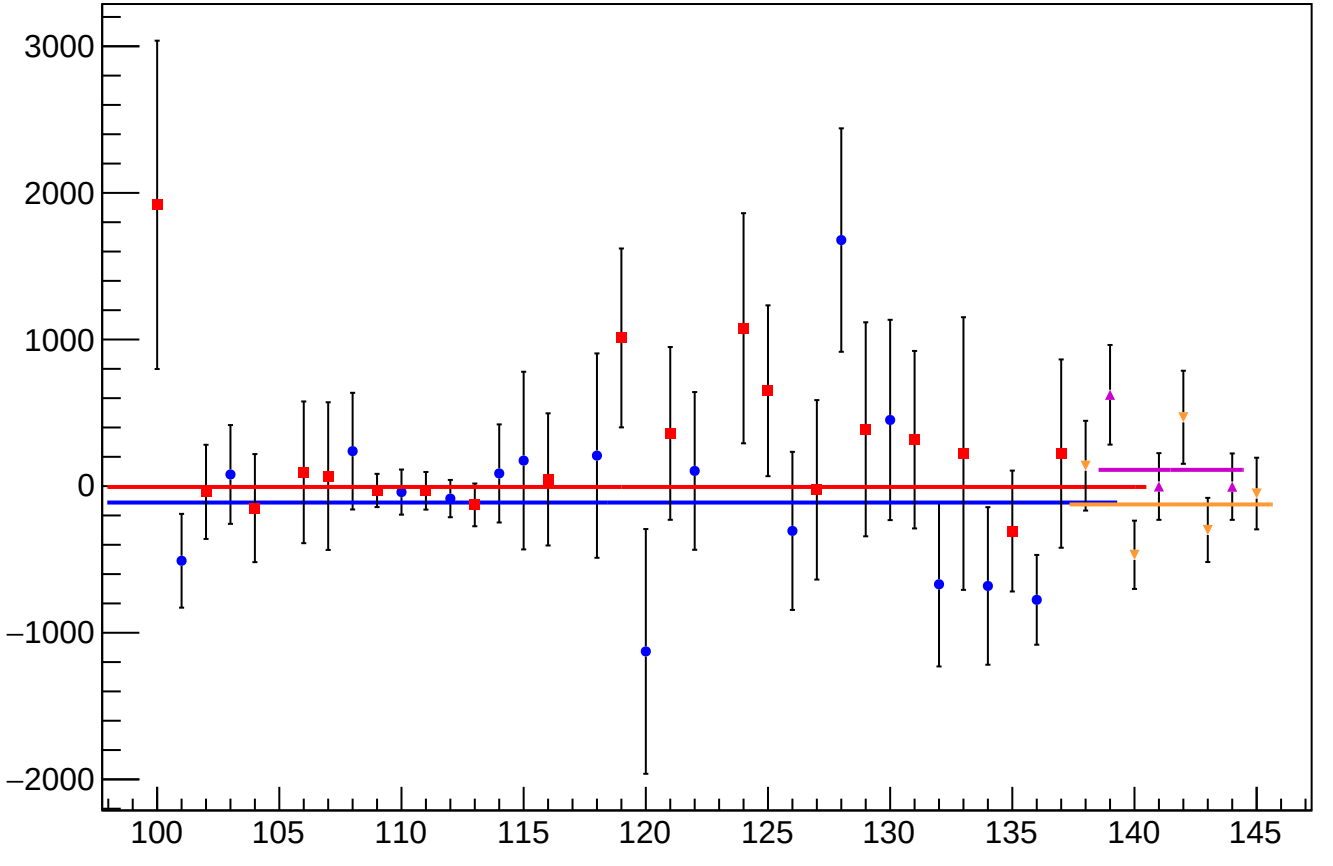
Right: 61.958+/-0.012 $\chi^2$/NDF: 531751.4/34

In: 59.809+/-0.014 $\chi^2$/NDF:286204.4/18

Out: 60.588+/-0.013 $\chi^2$/NDF:327257.8/23

All: 60.217+/-0.009 $\chi^2$/NDF: 615183.9/42

asym_sam8_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -111.866+/-76.213 $\chi^2$/NDF: 18.5/15

Left Out: -124.867+/-114.192 $\chi^2$/NDF:7.2/4

Right Out: -5.616+/-64.085 $\chi^2$/NDF: 11.6/18

Left In: 111.114+/-145.100 $\chi^2$/NDF:2.8/2

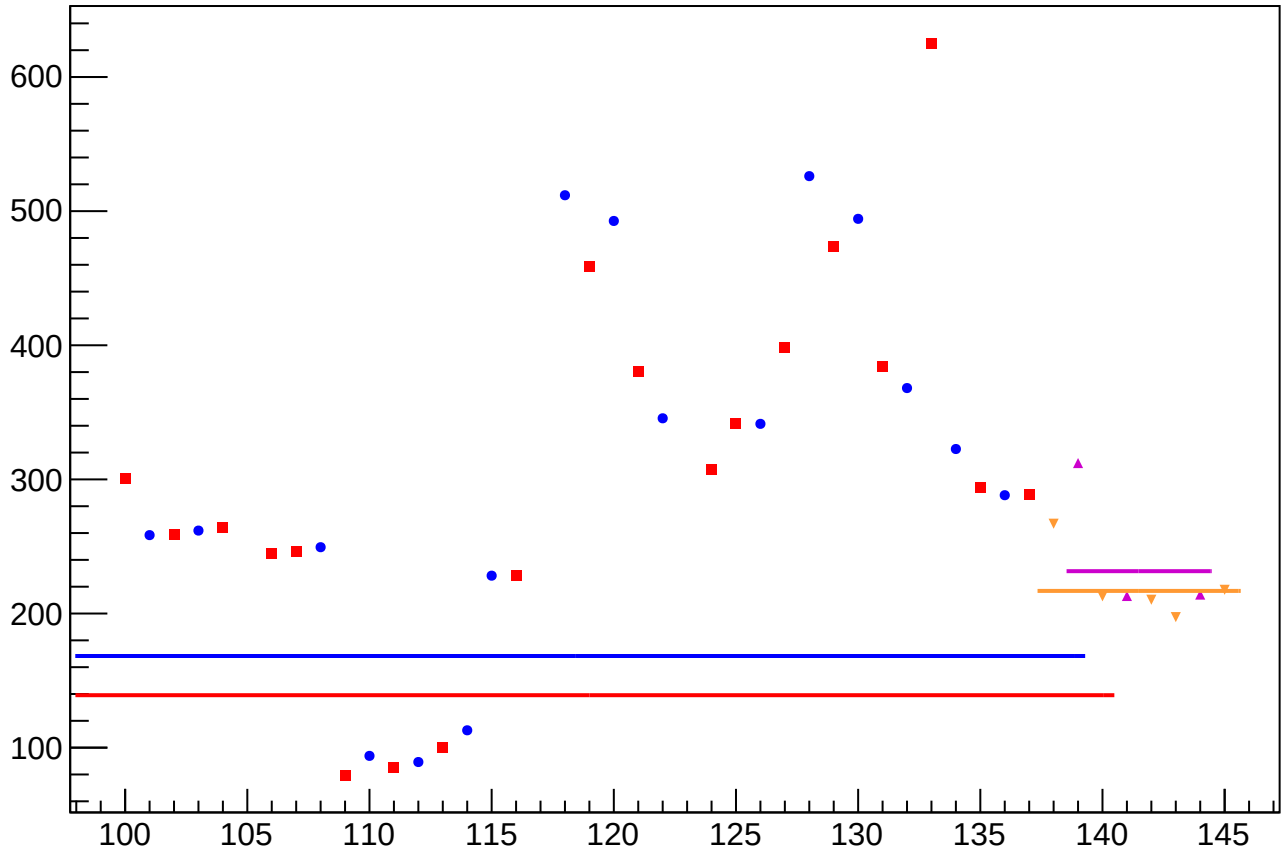
Left: -34.612+/-89.736 $\chi^2$/NDF: 11.6/7

Right: -49.624+/-49.049 $\chi^2$/NDF: 31.2/34

In: -63.652+/-67.472 $\chi^2$/NDF:23.1/18

Out: -34.178+/-55.886 $\chi^2$/NDF:19.6/23

All: -46.171+/-43.039 $\chi^2$/NDF: 42.8/42




Right In: 168.330+/-0.054 $\chi^2$/NDF: 4544100.8/15

Left Out: 216.863+/-0.081 $\chi^2$/NDF:71001.8/4

Right Out: 139.105+/-0.045 $\chi^2$/NDF: 5130011.5/18

Left In: 231.576+/-0.103 $\chi^2$/NDF:137607.6/2

Left: 222.490+/-0.063 $\chi^2$/NDF: 221307.2/7

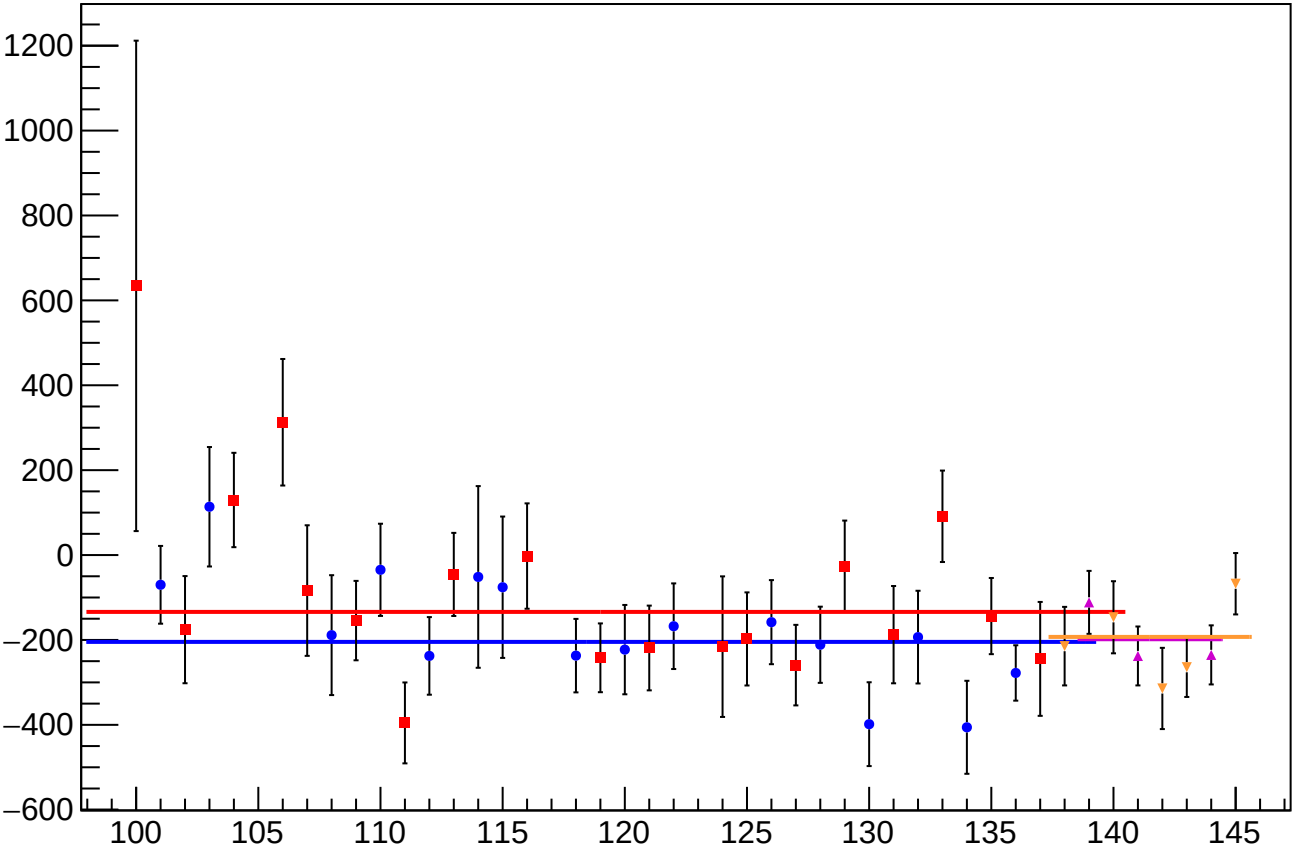
Right: 151.210+/-0.035 $\chi^2$/NDF: 9846393.6/34

In: 182.005+/-0.048 $\chi^2$/NDF:4979526.1/18

Out: 157.729+/-0.040 $\chi^2$/NDF:5906262.6/23

All: 167.607+/-0.030 $\chi^2$/NDF: 11039352.3/42

# dit_asym_sam8_mean vs Slug, Sign Corrected




Right In: -204.577+/-25.523 $\chi^2$/NDF: 20.0/15

Left Out: -192.822+/-36.282 $\chi^2$/NDF:6.0/4

Right Out: -133.924+/-25.484 $\chi^2$/NDF: 37.2/18

Left In: -198.322+/-40.968 $\chi^2$/NDF:2.0/2

Left: -195.239+/-27.161 $\chi^2$/NDF: 8.0/7

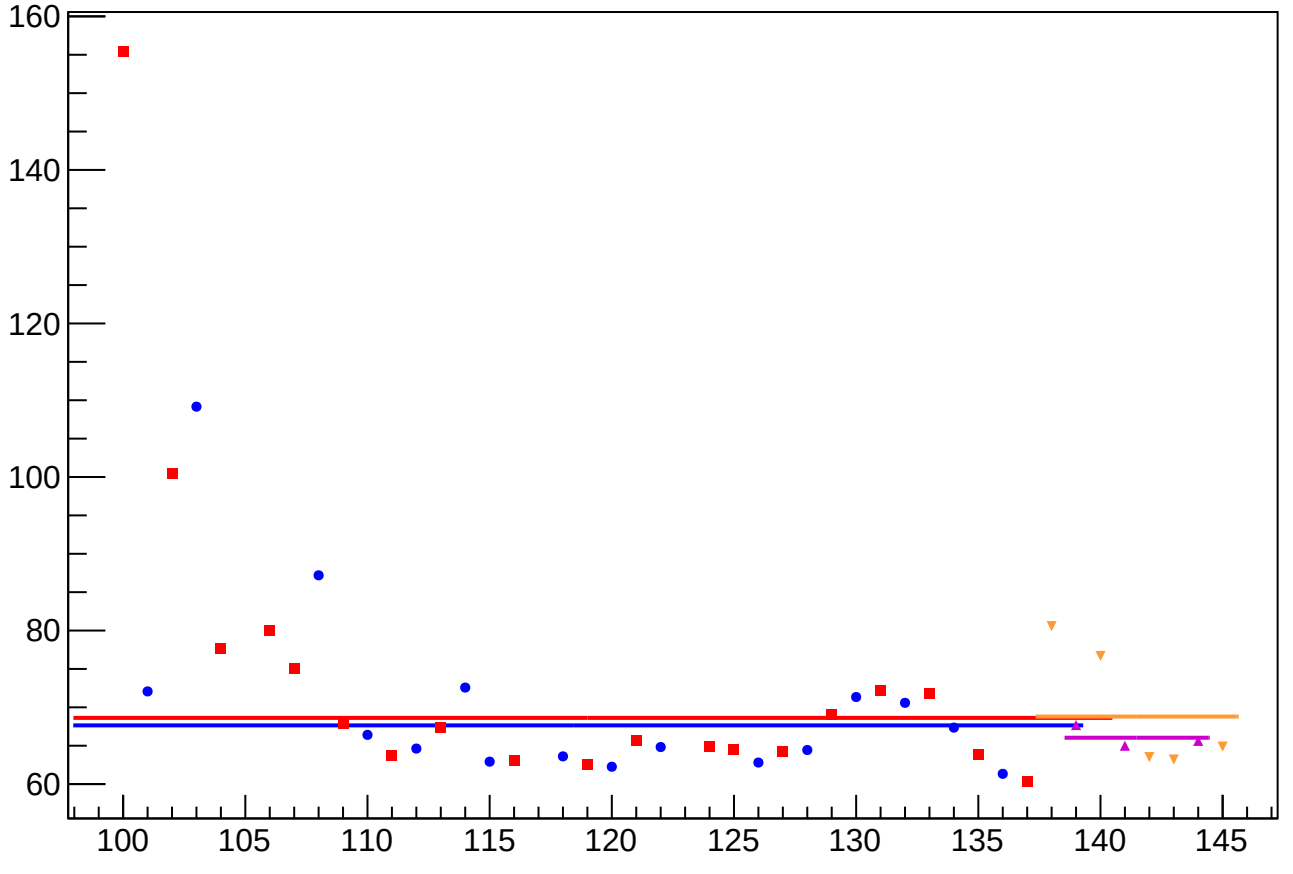
Right: -169.195+/-18.034 $\chi^2$/NDF: 61.1/34

In: -202.828+/-21.663 $\chi^2$/NDF:22.0/18

Out: -153.382+/-20.854 $\chi^2$/NDF:45.0/23

All: -177.164+/-15.024 $\chi^2$/NDF: 69.7/42

# dit_asym_sam8_rms vs Slug, Sign Corrected




Right In: 67.647+/-0.018 $\chi^2$/NDF: 263669.9/15

Left Out: 68.801+/-0.026 $\chi^2$/NDF:74364.9/4

Right Out: 68.624+/-0.018 $\chi^2$/NDF: 248164.6/18

Left In: 66.040+/-0.029 $\chi^2$/NDF:1515.5/2

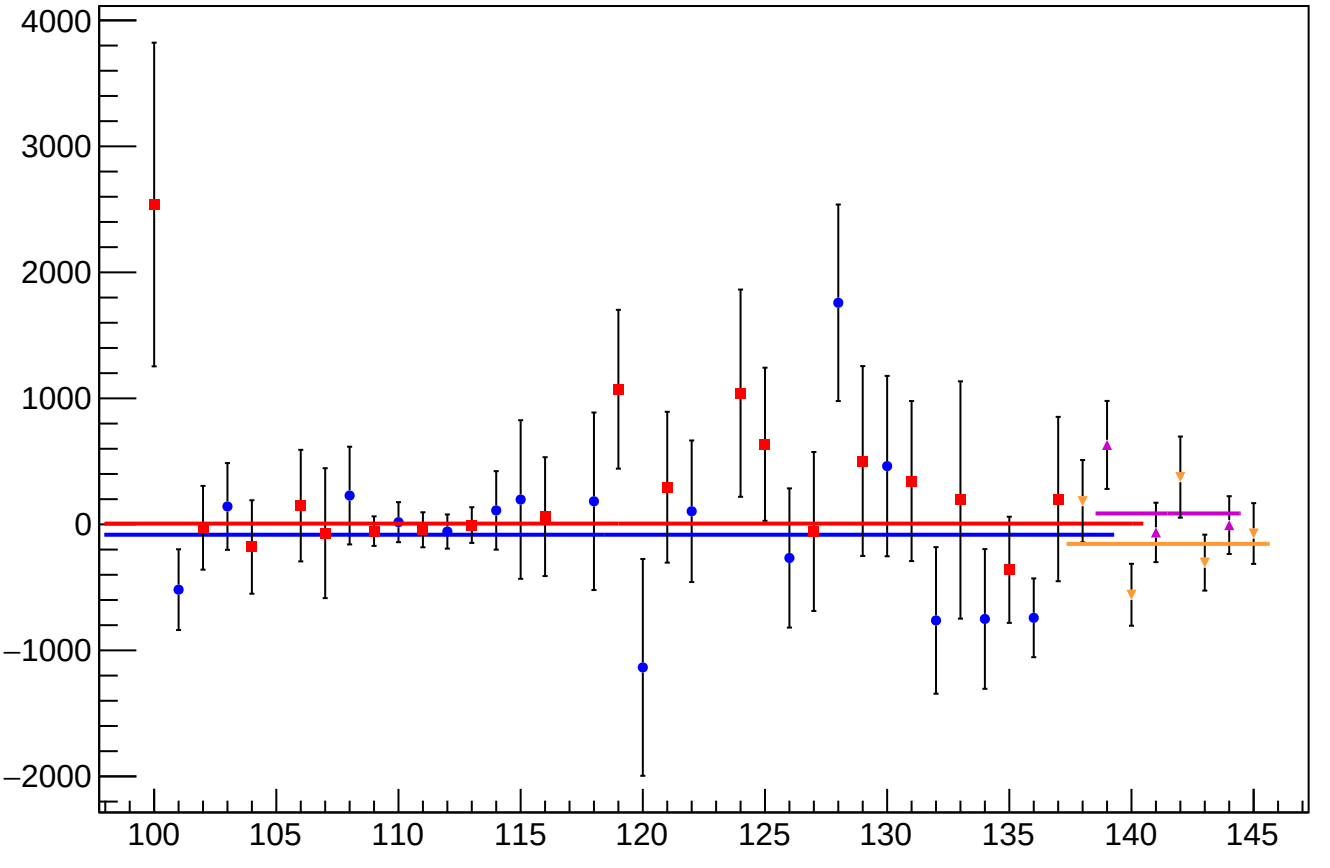
Left: 67.587+/-0.019 $\chi^2$/NDF: 80971.7/7

Right: 68.136+/-0.013 $\chi^2$/NDF: 513300.5/34

In: 67.198+/-0.015 $\chi^2$/NDF:267404.4/18

Out: 68.682+/-0.015 $\chi^2$/NDF:322561.3/23

All: 67.968+/-0.011 $\chi^2$/NDF: 594840.1/42




Right In: -82.228+/-78.676 $\chi^2$/NDF: 19.2/15

Left Out: -154.732+/-116.992 $\chi^2$/NDF:7.1/4

Right Out: 6.063+/-65.910 $\chi^2$/NDF: 12.0/18

Left In: 86.575+/-148.741 $\chi^2$/NDF:3.0/2

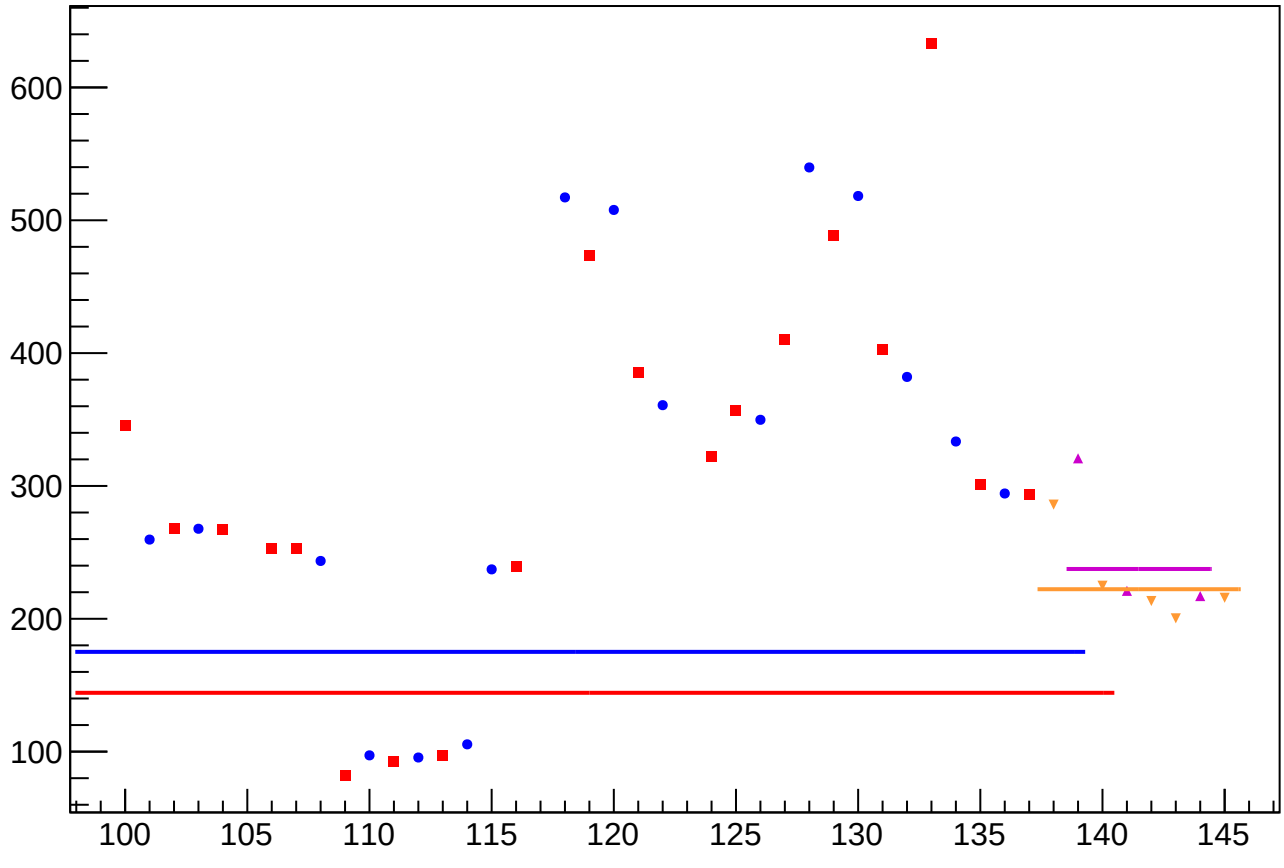
Left: -62.503+/-91.956 $\chi^2$/NDF: 11.7/7

Right: -30.347+/-50.524 $\chi^2$/NDF: 32.0/34

In: -45.324+/-69.546 $\chi^2$/NDF:23.2/18

Out: -32.676+/-57.424 $\chi^2$/NDF:20.5/23

All: -37.803+/-44.280 $\chi^2$/NDF: 43.8/42




Right In: 175.099+/-0.056 $\chi^2$/NDF: 4429076.5/15

Left Out: 222.258+/-0.083 $\chi^2$/NDF:98760.8/4

Right Out: 144.276+/-0.047 $\chi^2$/NDF: 5132432.2/18

Left In: 237.496+/-0.105 $\chi^2$/NDF:139413.5/2

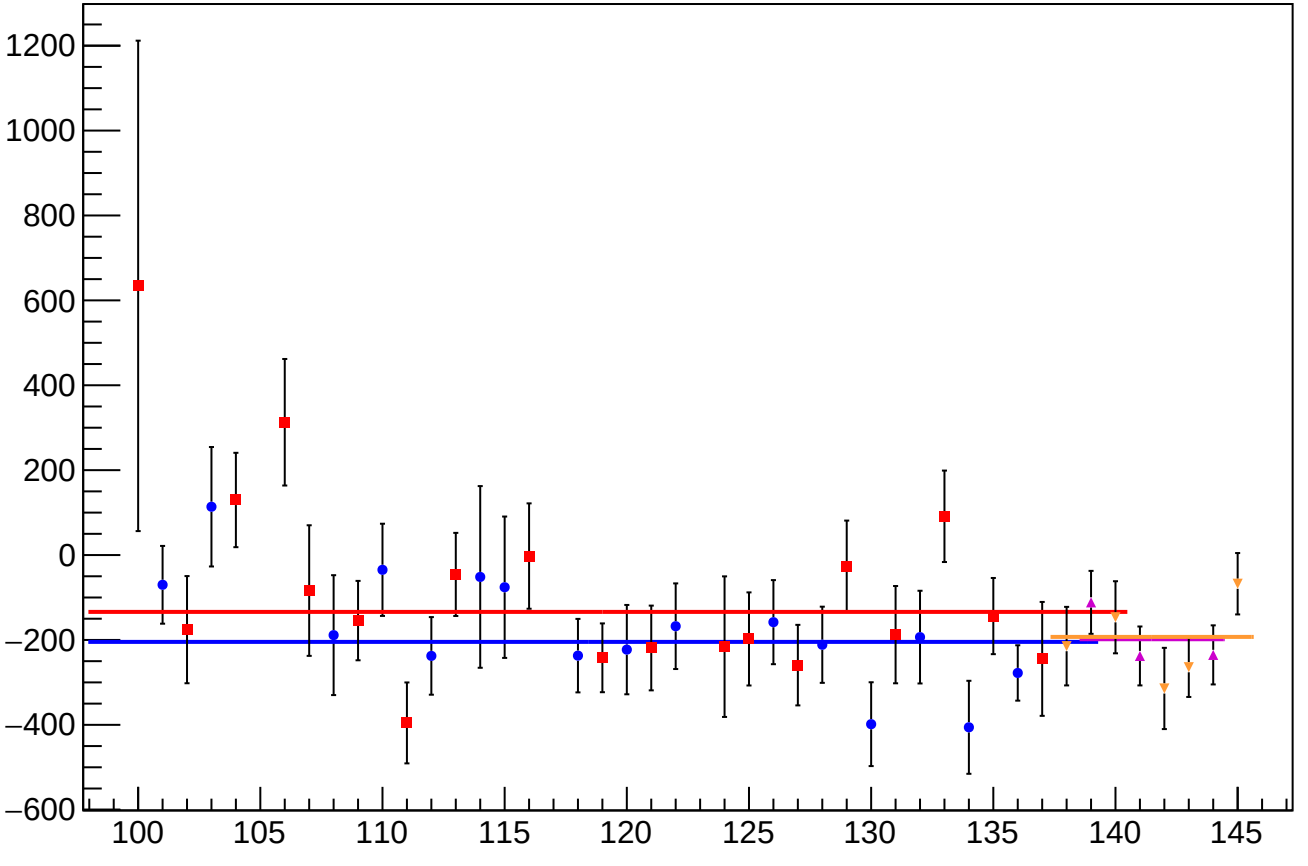
Left: 228.082+/-0.065 $\chi^2$/NDF: 251142.2/7

Right: 156.987+/-0.036 $\chi^2$/NDF: 9741889.9/34

In: 188.740+/-0.049 $\chi^2$/NDF:4843503.3/18

Out: 163.064+/-0.041 $\chi^2$/NDF:5905705.5/23

All: 173.473+/-0.031 $\chi^2$/NDF: 10911310.9/42




Right In: -204.577+/-25.523 $\chi^2$/NDF: 20.0/15

Left Out: -192.824+/-36.282 $\chi^2$/NDF:6.0/4

Right Out: -133.926+/-25.483 $\chi^2$/NDF: 37.2/18

Left In: -198.322+/-40.968 $\chi^2$/NDF:2.0/2

Left: -195.241+/-27.162 $\chi^2$/NDF: 8.0/7

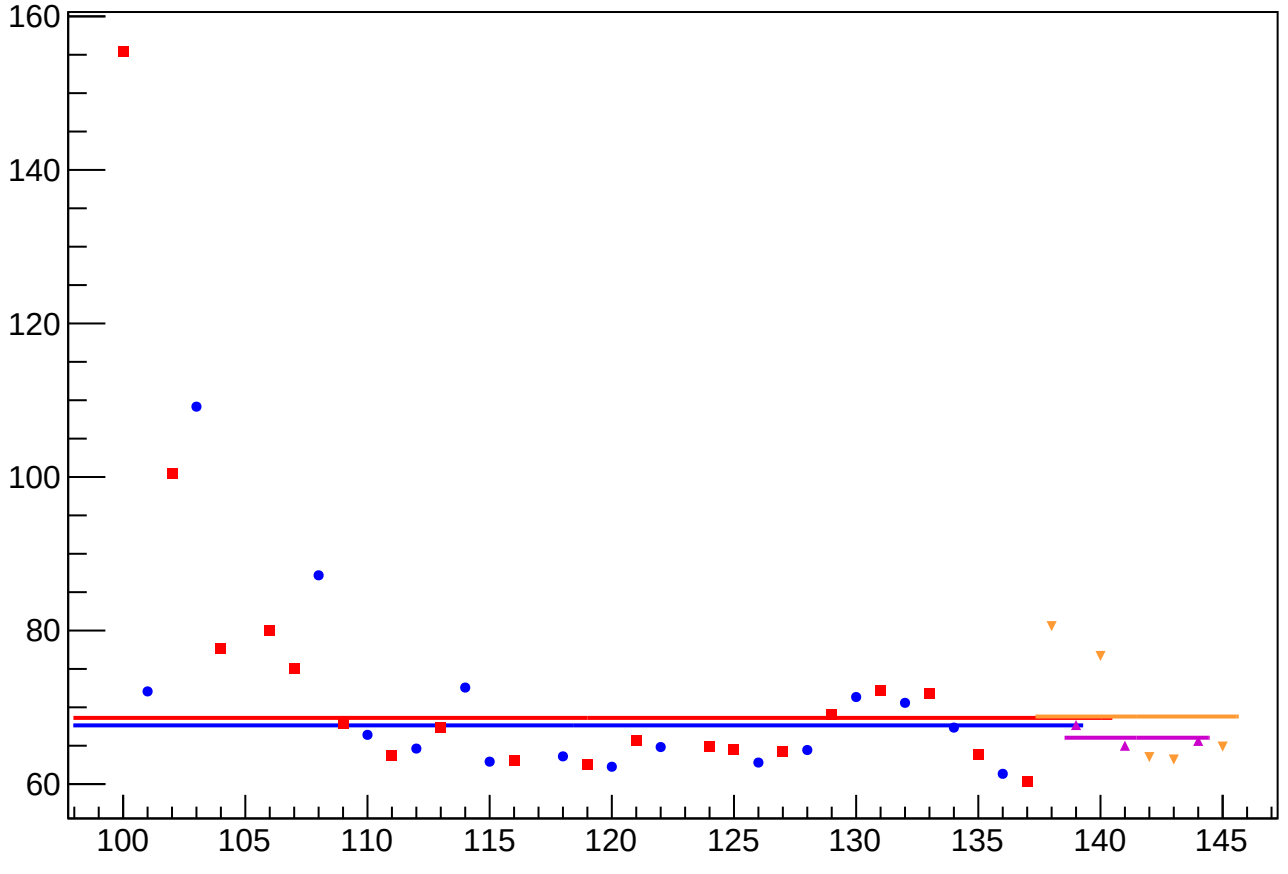
Right: -169.196+/-18.034 $\chi^2$/NDF: 61.1/34

In: -202.828+/-21.663 $\chi^2$/NDF:22.0/18

Out: -153.383+/-20.854 $\chi^2$/NDF:45.0/23

All: -177.164+/-15.024 $\chi^2$/NDF: 69.7/42

# eigen_dit_asym_sam8_rms vs Slug, Sign Corrected




Right In: 67.647+/-0.018 $\chi^2$/NDF: 263668.9/15

Left Out: 68.801+/-0.026 $\chi^2$/NDF:74362.3/4

Right Out: 68.624+/-0.018 $\chi^2$/NDF: 248166.1/18

Left In: 66.040+/-0.029 $\chi^2$/NDF:1515.3/2

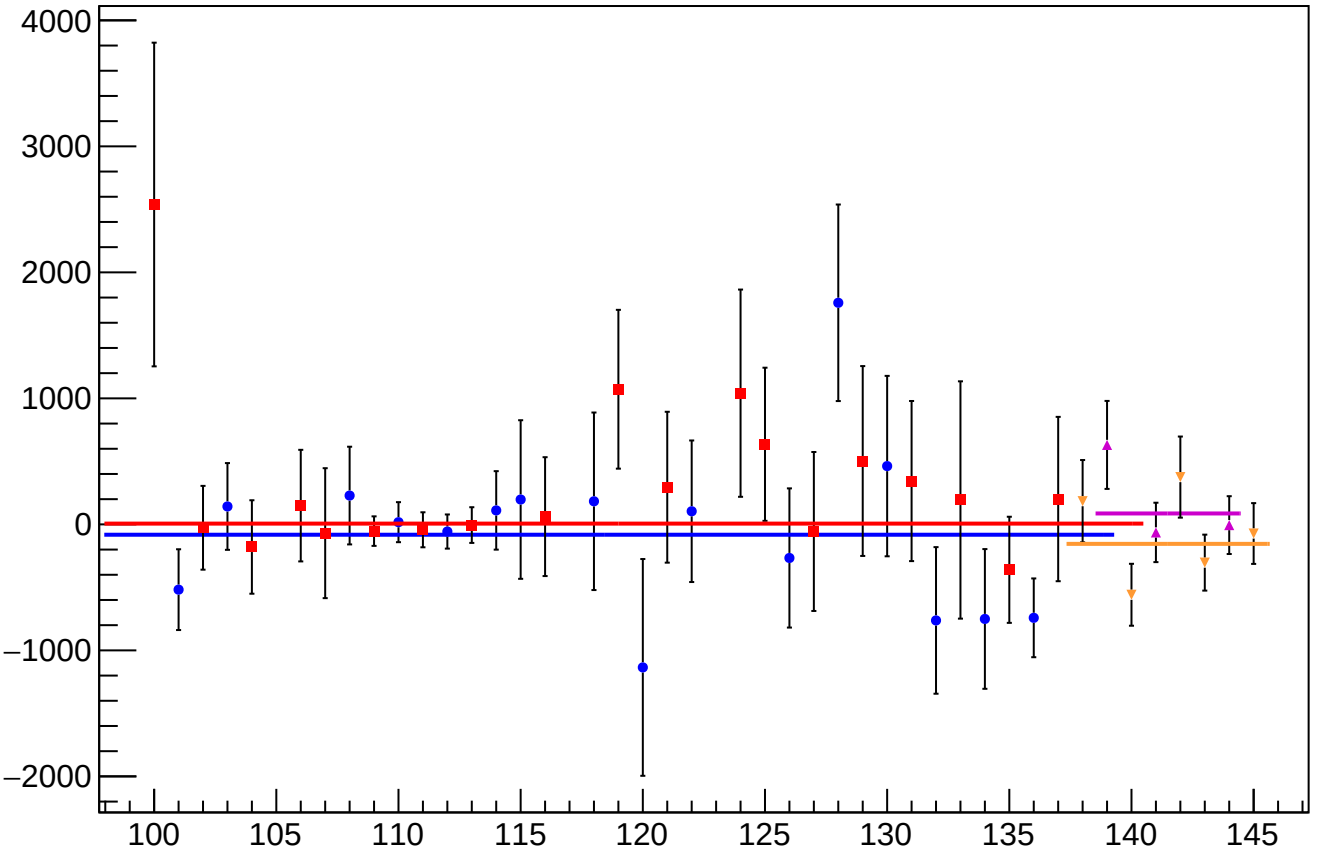
Left: 67.587+/-0.019 $\chi^2$/NDF: 80969.2/7

Right: 68.136+/-0.013 $\chi^2$/NDF: 513301.0/34

In: 67.198+/-0.015 $\chi^2$/NDF:267402.6/18

Out: 68.682+/-0.015 $\chi^2$/NDF:322560.3/23

All: 67.968+/-0.011 $\chi^2$/NDF: 594837.5/42




Right In: -82.226+/-78.675 $\chi^2$/NDF: 19.2/15

Left Out: -154.733+/-116.992 $\chi^2$/NDF:7.1/4

Right Out: 6.062+/-65.910 $\chi^2$/NDF: 12.0/18

Left In: 86.576+/-148.741 $\chi^2$/NDF:3.0/2

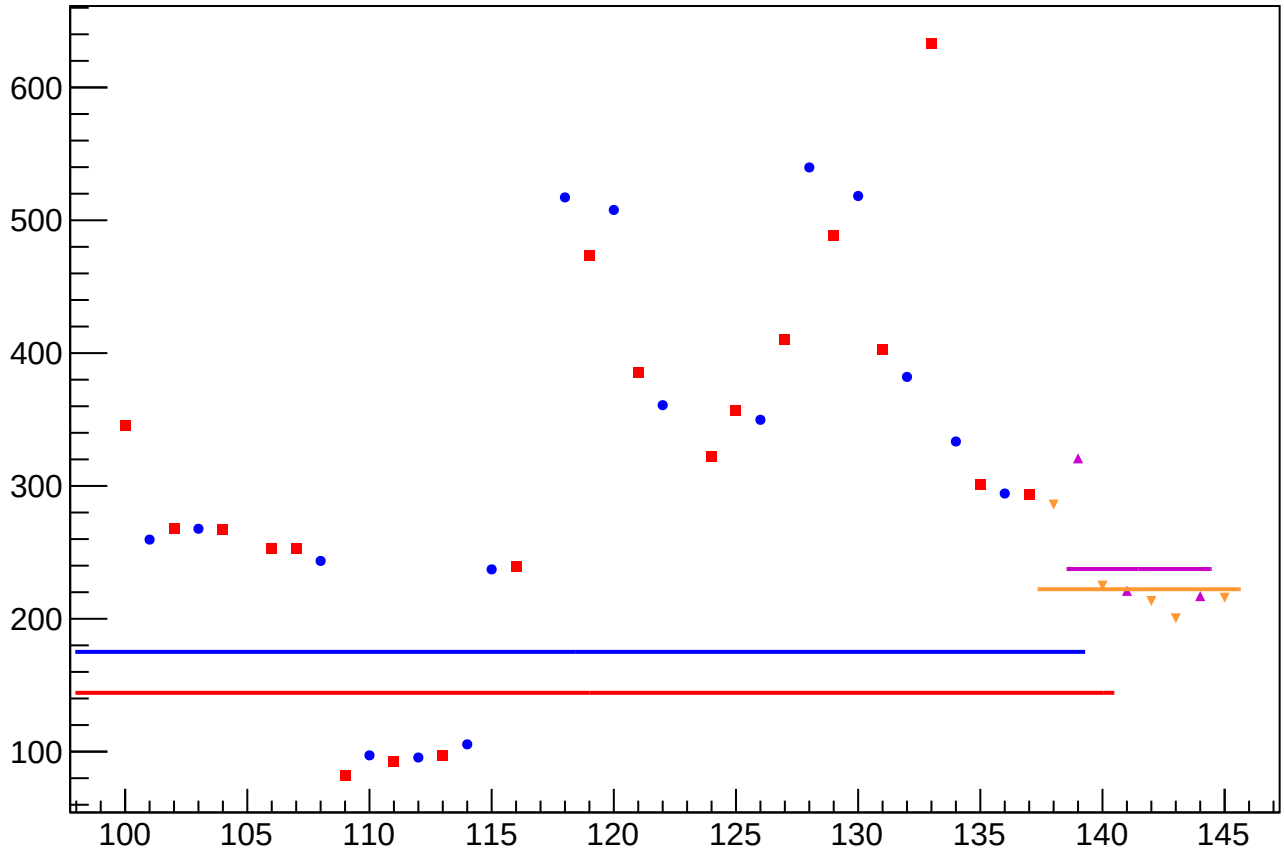
Left: -62.504+/-91.955 $\chi^2$/NDF: 11.7/7

Right: -30.347+/-50.524 $\chi^2$/NDF: 32.0/34

In: -45.323+/-69.546 $\chi^2$/NDF:23.2/18

Out: -32.677+/-57.424 $\chi^2$/NDF:20.5/23

All: -37.804+/-44.280 $\chi^2$/NDF: 43.8/42




Right In: 175.098+/-0.056 $\chi^2$/NDF: 4429098.4/15

Left Out: 222.257+/-0.083 $\chi^2$/NDF:98760.8/4

Right Out: 144.276+/-0.047 $\chi^2$/NDF: 5132412.3/18

Left In: 237.495+/-0.105 $\chi^2$/NDF:139412.1/2

Left: 228.081+/-0.065 $\chi^2$/NDF: 251141.4/7

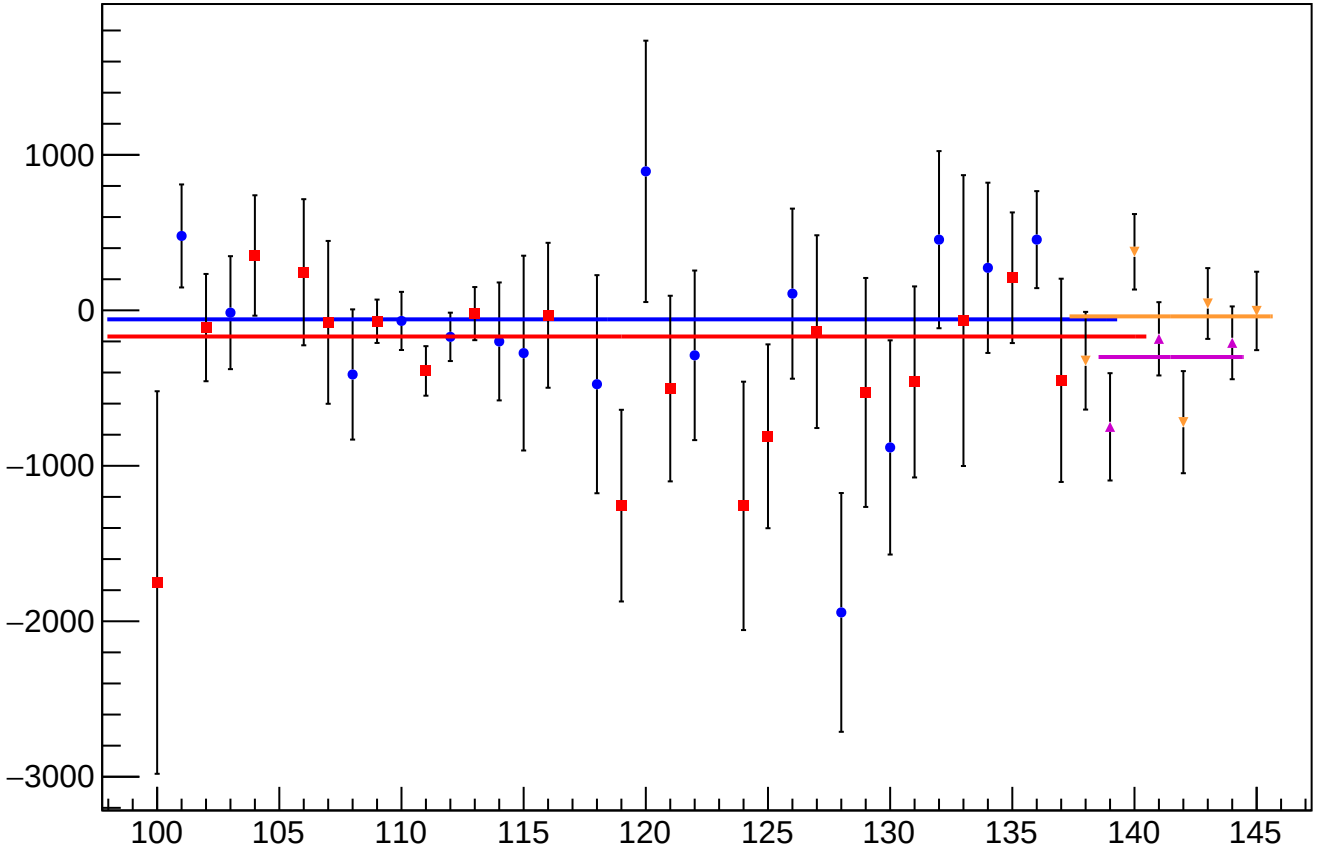
Right: 156.987+/-0.036 $\chi^2$/NDF: 9741880.9/34

In: 188.739+/-0.049 $\chi^2$/NDF:4843530.9/18

Out: 163.063+/-0.041 $\chi^2$/NDF:5905677.5/23

All: 173.472+/-0.031 $\chi^2$/NDF: 10911300.8/42

# asym_sam8_mean vs Slug, Sign Corrected




Right In: -57.970+/-86.890 $\chi^2$/NDF: 17.4/15

Left Out: -38.894+/-118.358 $\chi^2$/NDF:8.2/4

Right Out: -168.322+/-74.598 $\chi^2$/NDF: 15.5/18

Left In: -300.203+/-149.674 $\chi^2$/NDF:2.1/2

Left: -139.430+/-92.839 $\chi^2$/NDF: 12.2/7

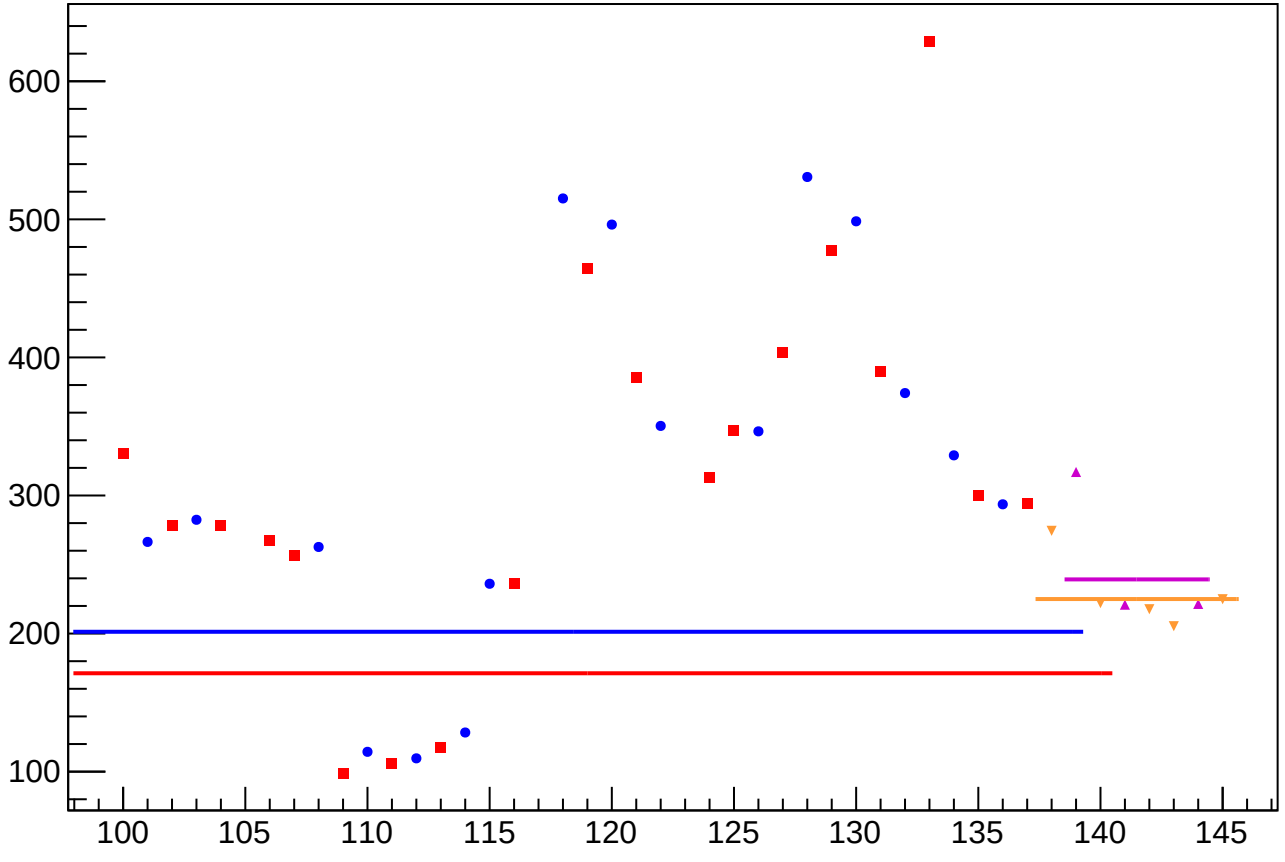
Right: -121.498+/-56.600 $\chi^2$/NDF: 33.8/34

In: -119.029+/-75.146 $\chi^2$/NDF:21.4/18

Out: -131.525+/-63.109 $\chi^2$/NDF:24.5/23

All: -126.357+/-48.327 $\chi^2$/NDF: 46.0/42

# asym_sam8_rms vs Slug, Sign Corrected




Right In: 201.301+/-0.061 $\chi^2$/NDF: 3572199.4/15

Left Out: 225.007+/-0.084 $\chi^2$/NDF:65702.2/4

Right Out: 171.252+/-0.053 $\chi^2$/NDF: 4192554.2/18

Left In: 239.232+/-0.106 $\chi^2$/NDF:125194.7/2

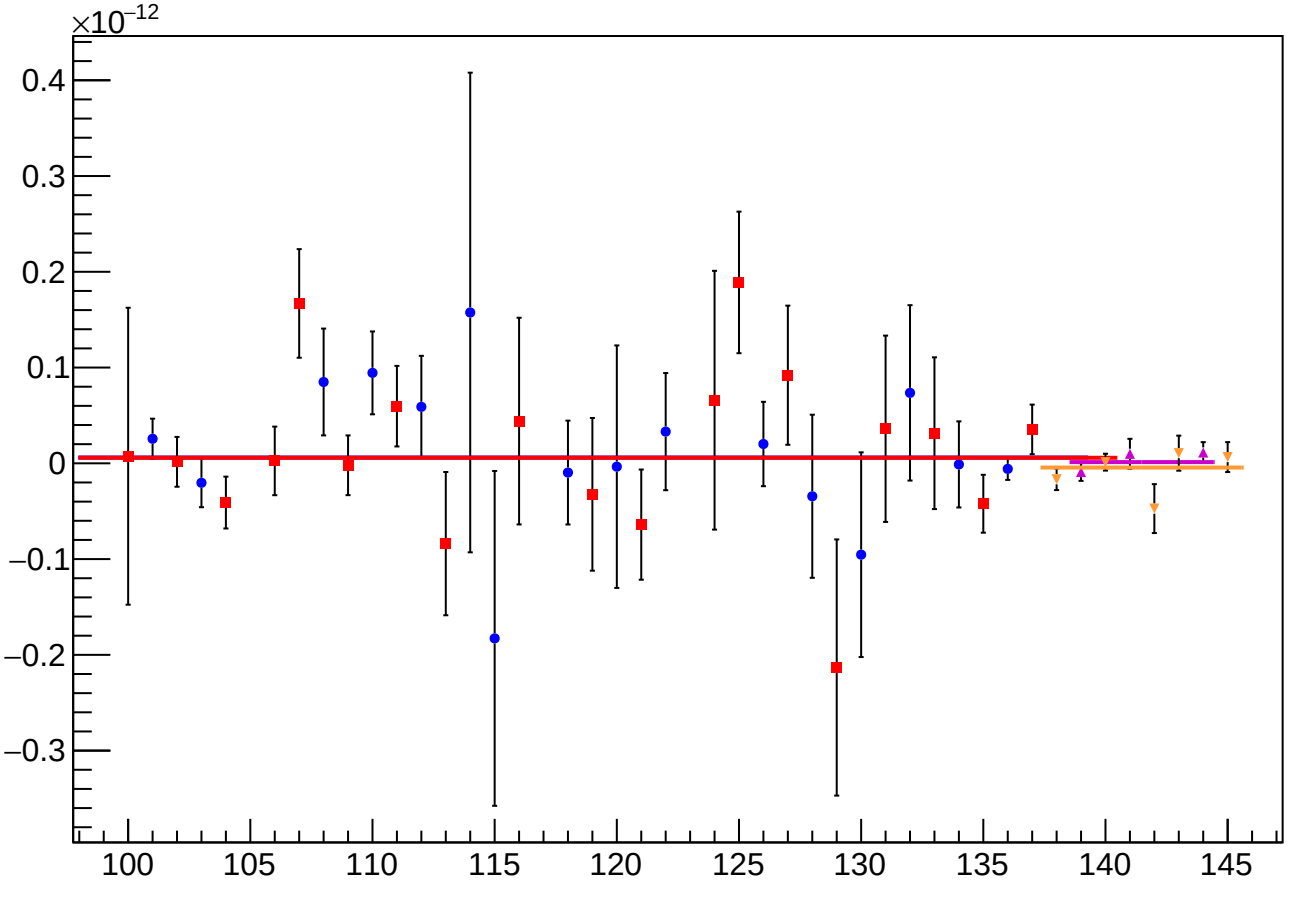
Left: 230.480+/-0.066 $\chi^2$/NDF: 202012.6/7

Right: 184.002+/-0.040 $\chi^2$/NDF: 7902458.5/34

In: 210.862+/-0.053 $\chi^2$/NDF:3793463.4/18

Out: 186.534+/-0.045 $\chi^2$/NDF:4553512.4/23

All: 196.596+/-0.034 $\chi^2$/NDF: 8469899.6/42




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

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 30.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.4/2

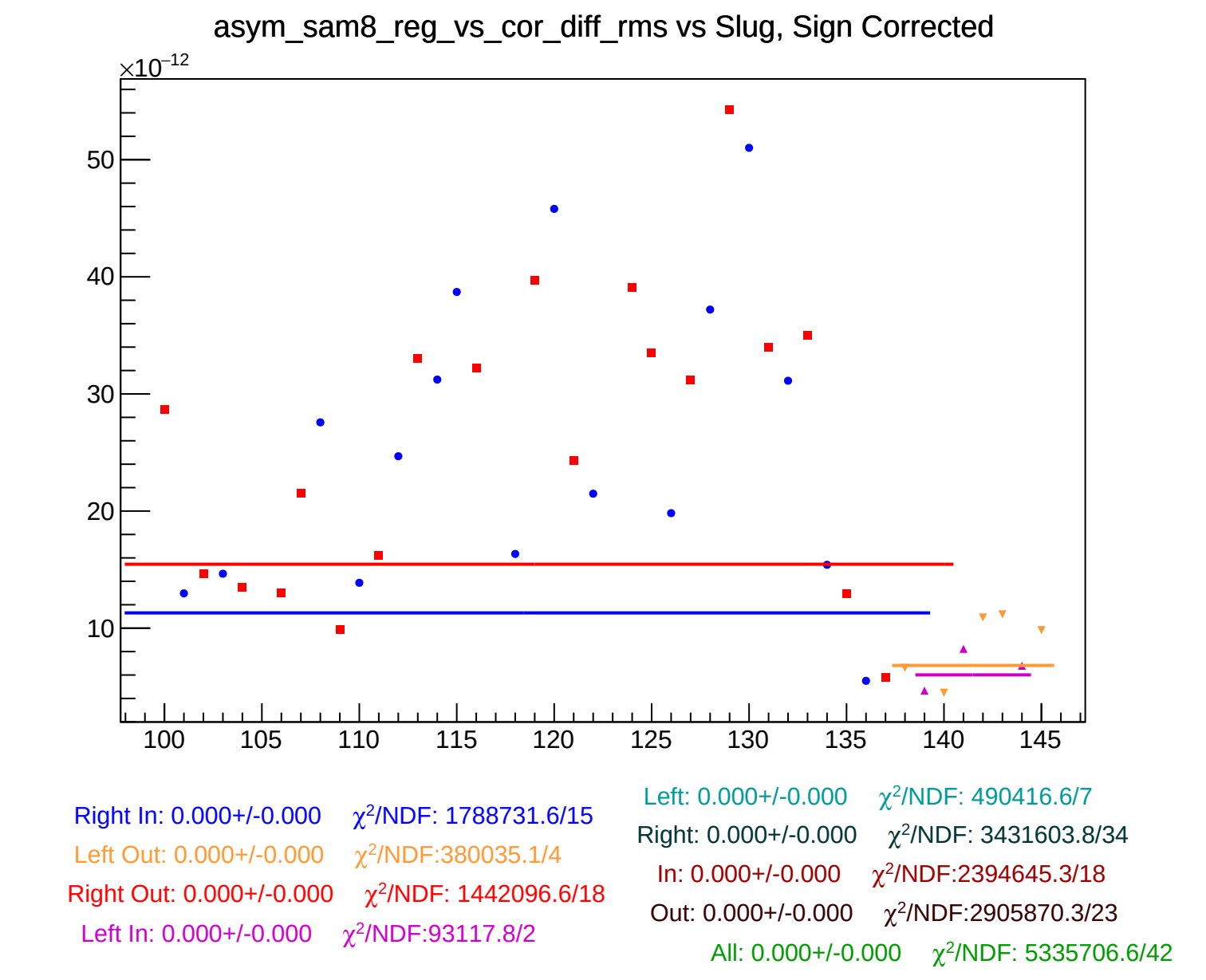
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.4/7

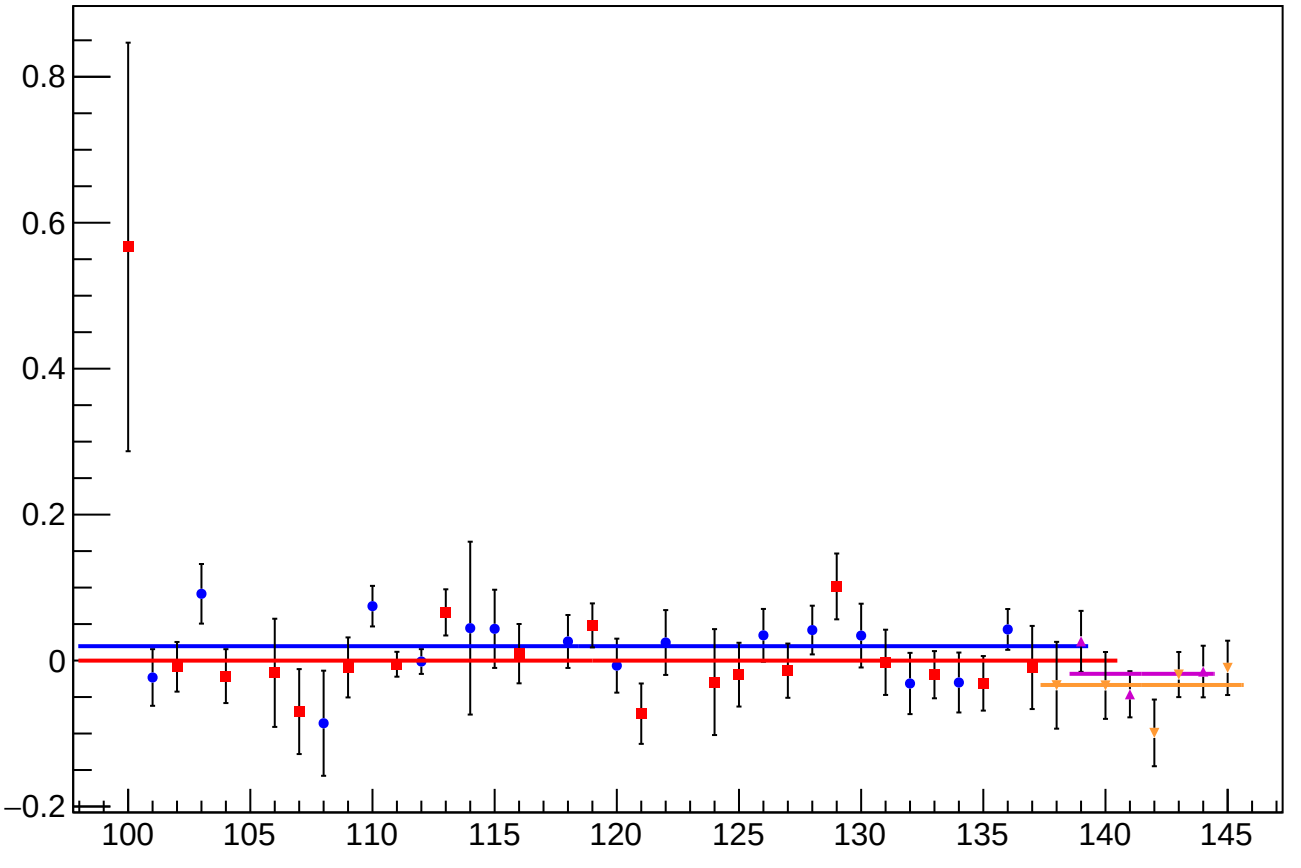
Right: 0.000+/-0.000 $\chi^2$/NDF: 44.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:36.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 53.7/42


asym_sam8_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1788731.6/15
Left Out: 0.000+/-0.000 χ²/NDF:380035.1/4
Right Out: 0.000+/-0.000 χ²/NDF: 1442096.6/18
Left In: 0.000+/-0.000 χ²/NDF:93117.8/2
Left: 0.000+/-0.000 χ²/NDF: 490416.6/7
Right: 0.000+/-0.000 χ²/NDF: 3431603.8/34
In: 0.000+/-0.000 χ²/NDF:2394645.3/18
Out: 0.000+/-0.000 χ²/NDF:2905870.3/23
All: 0.000+/-0.000 χ²/NDF: 5335706.6/42




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.033+/-0.018 $\chi^2$/NDF:2.7/4

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: -0.018+/-0.021 $\chi^2$/NDF:1.9/2

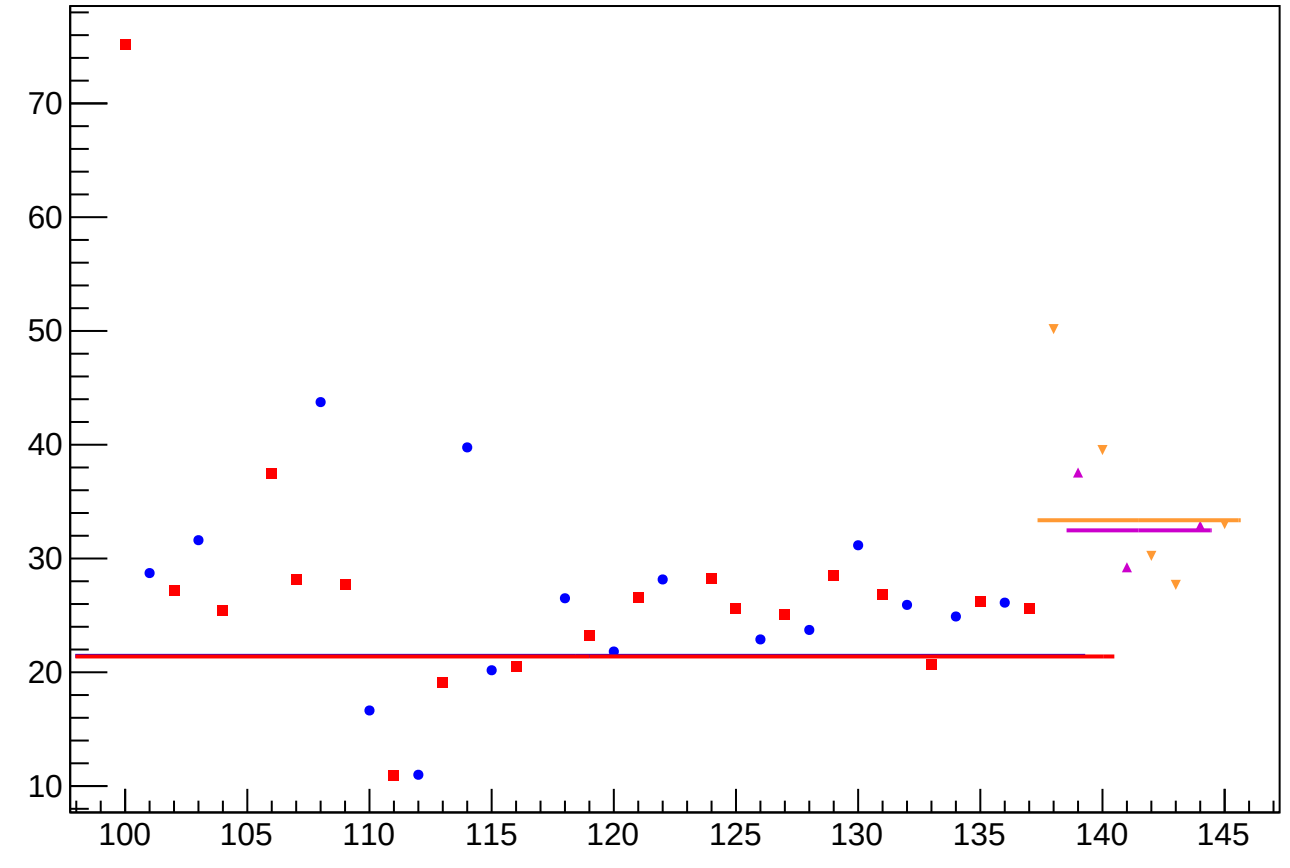
Left: -0.027+/-0.014 $\chi^2$/NDF: 4.9/7

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.014+/-0.008 $\chi^2$/NDF:21.8/18

Out: -0.006+/-0.008 $\chi^2$/NDF:28.3/23

All: 0.004+/-0.006 $\chi^2$/NDF: 53.4/42




Right In: 21.444+/-0.006 $\chi^2$/NDF: 1540713.8/15

Left Out: 33.363+/-0.013 $\chi^2$/NDF:272848.5/4

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1311934.3/18

Left In: 32.474+/-0.015 $\chi^2$/NDF:50952.8/2

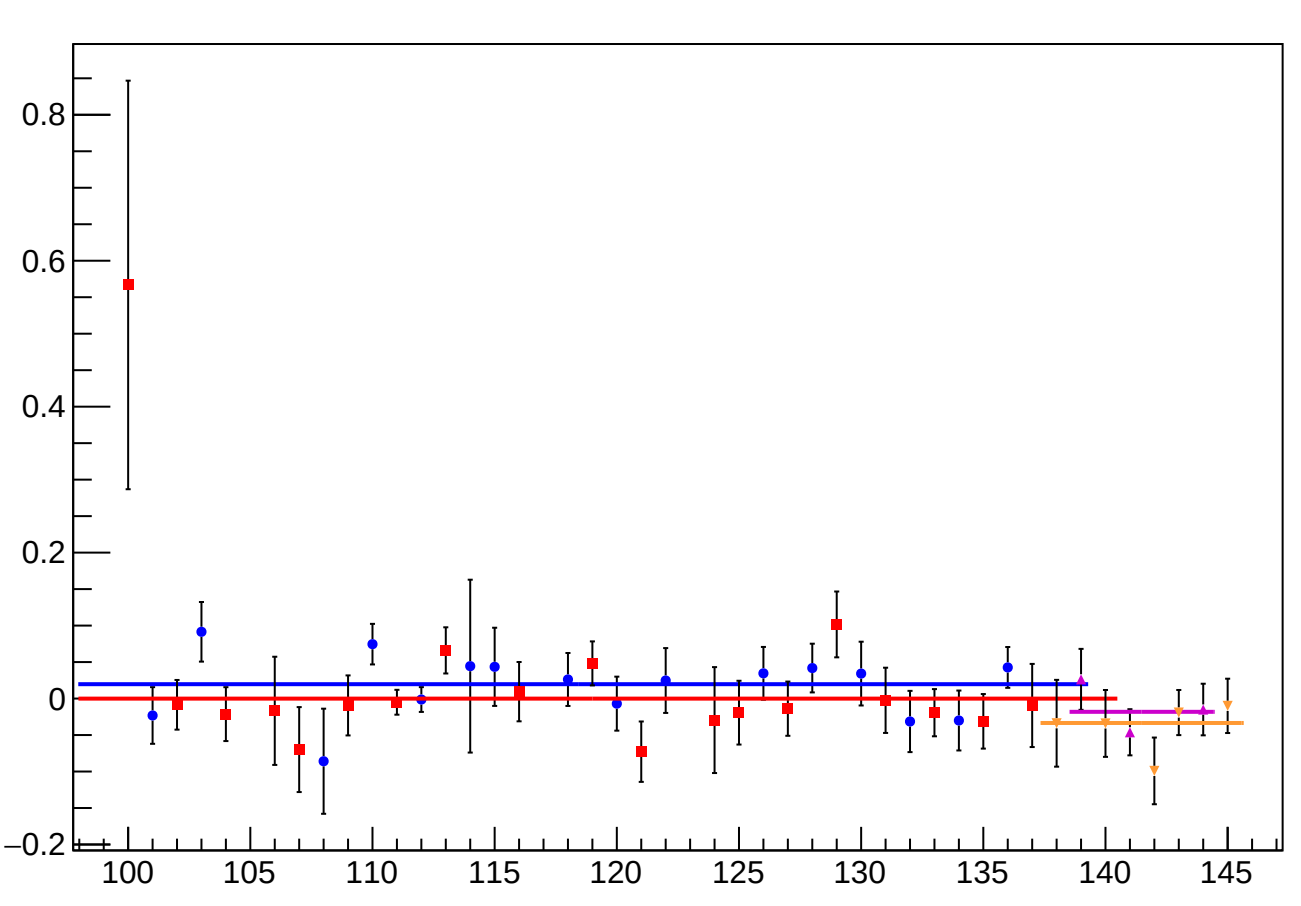
Left: 32.971+/-0.010 $\chi^2$/NDF: 325895.8/7

Right: 21.416+/-0.004 $\chi^2$/NDF: 2852687.6/34

In: 23.119+/-0.006 $\chi^2$/NDF:2081492.8/18

Out: 23.528+/-0.005 $\chi^2$/NDF:2292585.2/23

All: 23.331+/-0.004 $\chi^2$/NDF: 4376798.5/42




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.033+/-0.018 $\chi^2$/NDF:2.7/4

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: -0.018+/-0.021 $\chi^2$/NDF:1.9/2

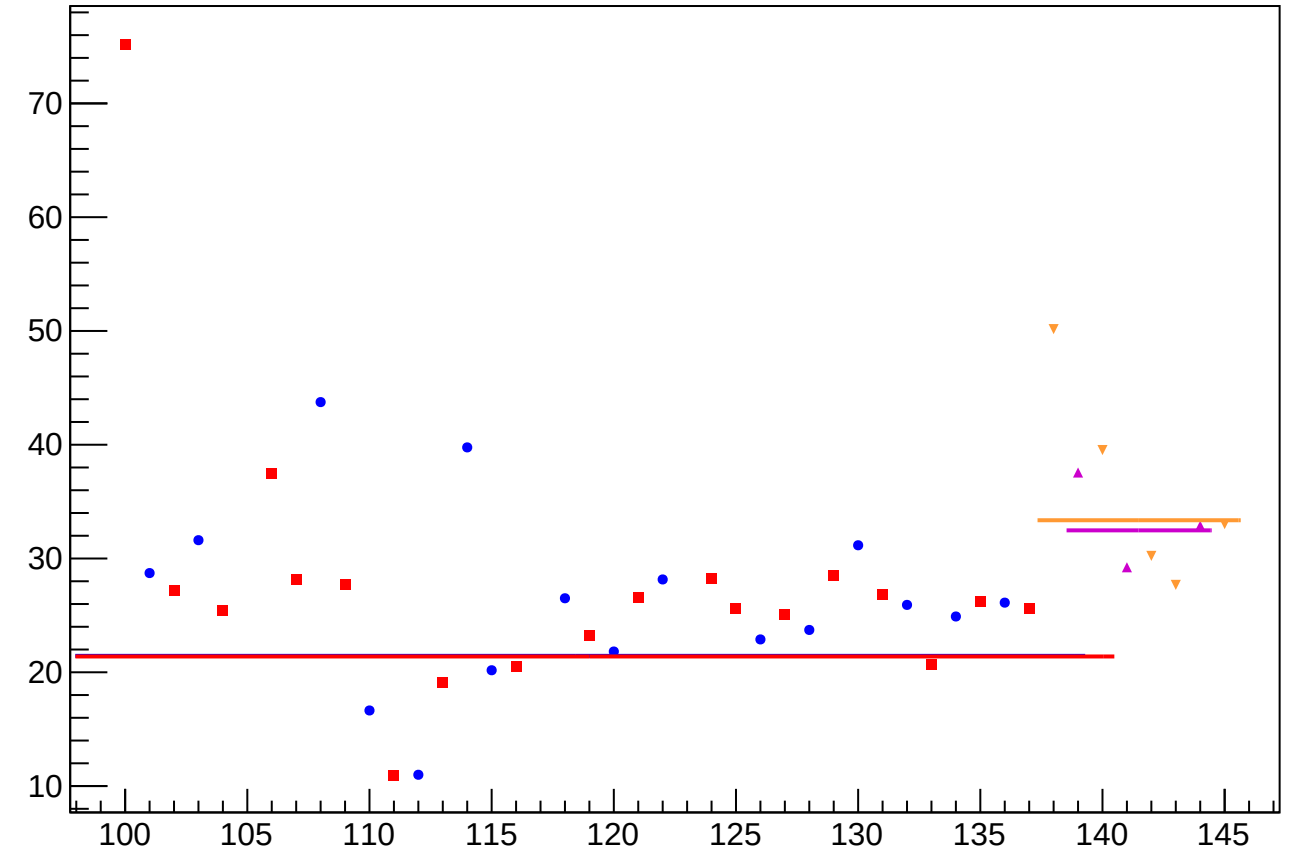
Left: -0.027+/-0.014 $\chi^2$/NDF: 4.9/7

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.014+/-0.008 $\chi^2$/NDF:21.8/18

Out: -0.006+/-0.008 $\chi^2$/NDF:28.3/23

All: 0.004+/-0.006 $\chi^2$/NDF: 53.4/42




Right In: 21.444+/-0.006 $\chi^2$/NDF: 1540713.8/15

Left Out: 33.363+/-0.013 $\chi^2$/NDF:272848.5/4

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1311934.3/18

Left In: 32.474+/-0.015 $\chi^2$/NDF:50952.8/2

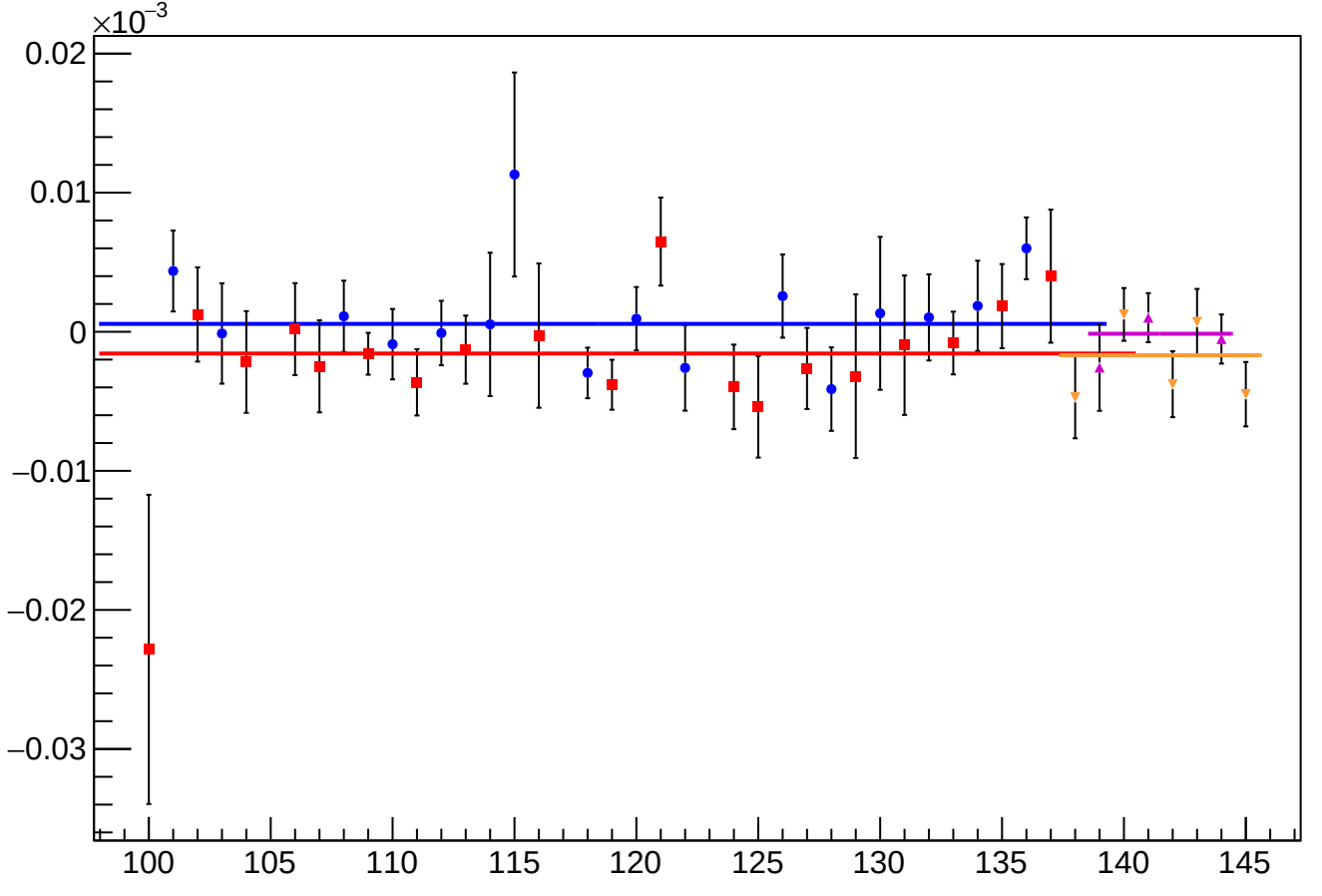
Left: 32.971+/-0.010 $\chi^2$/NDF: 325895.8/7

Right: 21.416+/-0.004 $\chi^2$/NDF: 2852687.6/34

In: 23.119+/-0.006 $\chi^2$/NDF:2081492.8/18

Out: 23.528+/-0.005 $\chi^2$/NDF:2292585.2/23

All: 23.331+/-0.004 $\chi^2$/NDF: 4376798.5/42




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

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.7/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.1/2

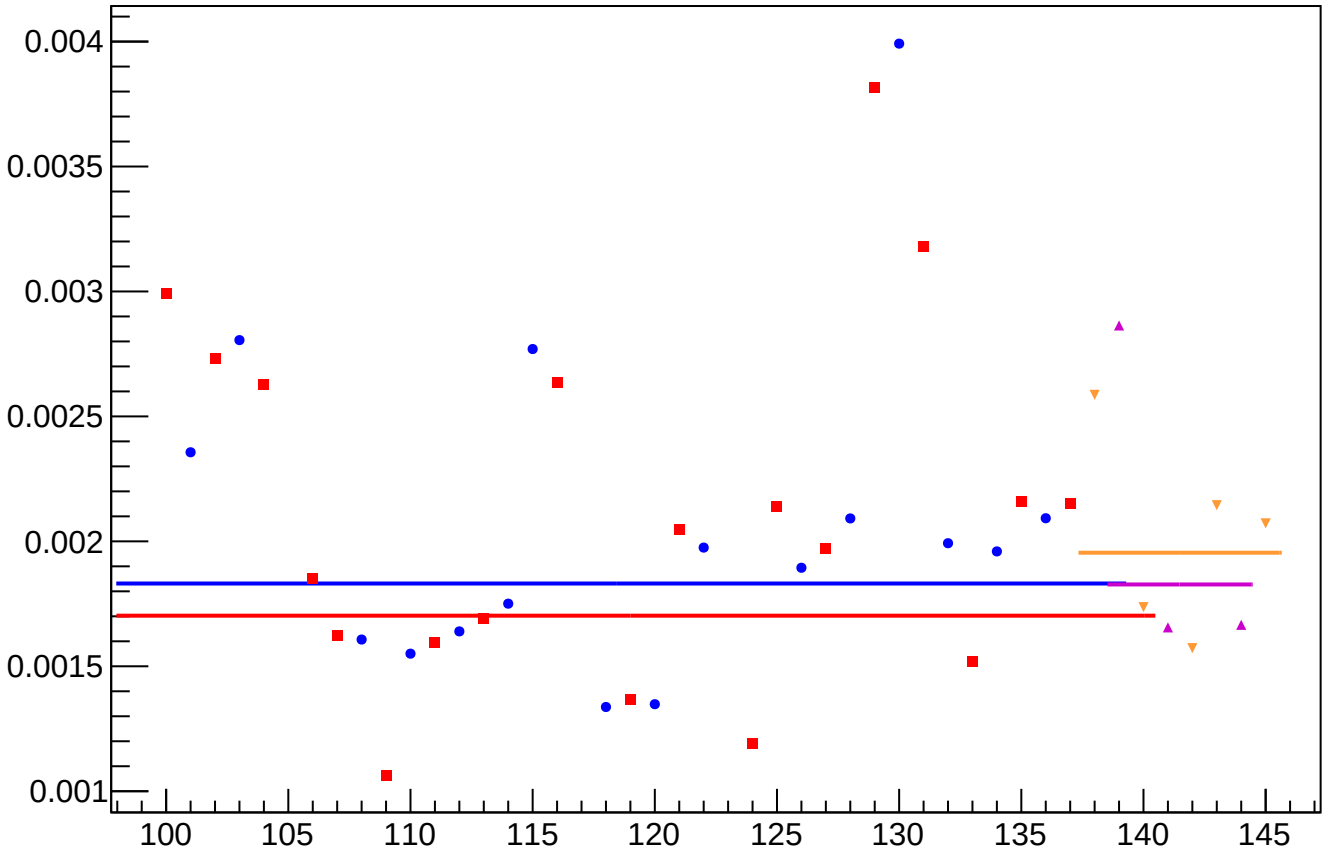
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:25.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 50.4/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 900406.1/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:187744.0/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 1478057.9/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:257159.0/2

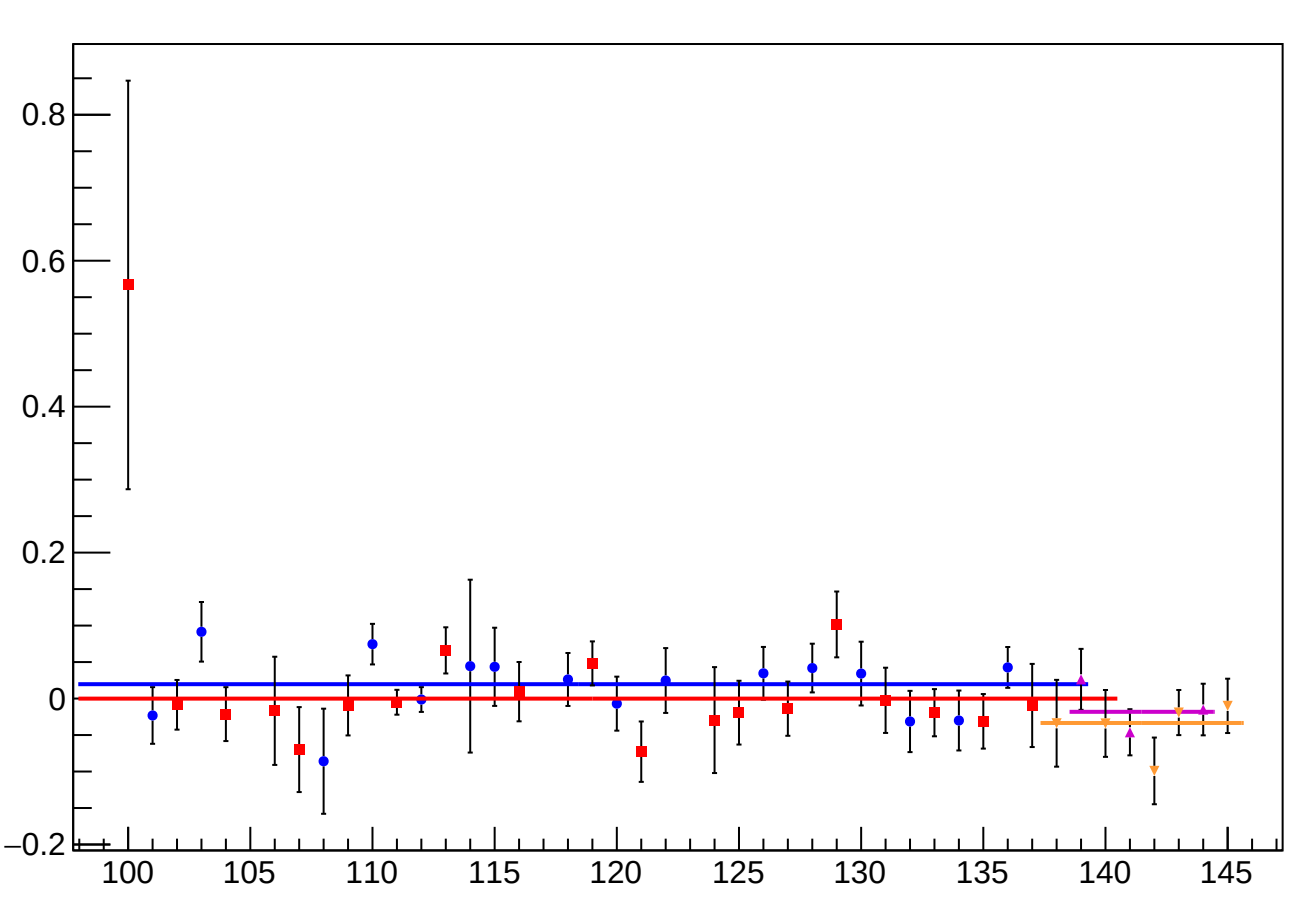
Left: 0.002+/-0.000 $\chi^2$/NDF: 458271.1/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 2413966.0/34

In: 0.002+/-0.000 $\chi^2$/NDF:1157580.9/18

Out: 0.002+/-0.000 $\chi^2$/NDF:1750107.2/23

All: 0.002+/-0.000 $\chi^2$/NDF: 2916685.5/42




Right In: 0.020+/-0.009 $\chi^2$/NDF: 17.0/15

Left Out: -0.033+/-0.018 $\chi^2$/NDF:2.7/4

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: -0.018+/-0.021 $\chi^2$/NDF:1.9/2

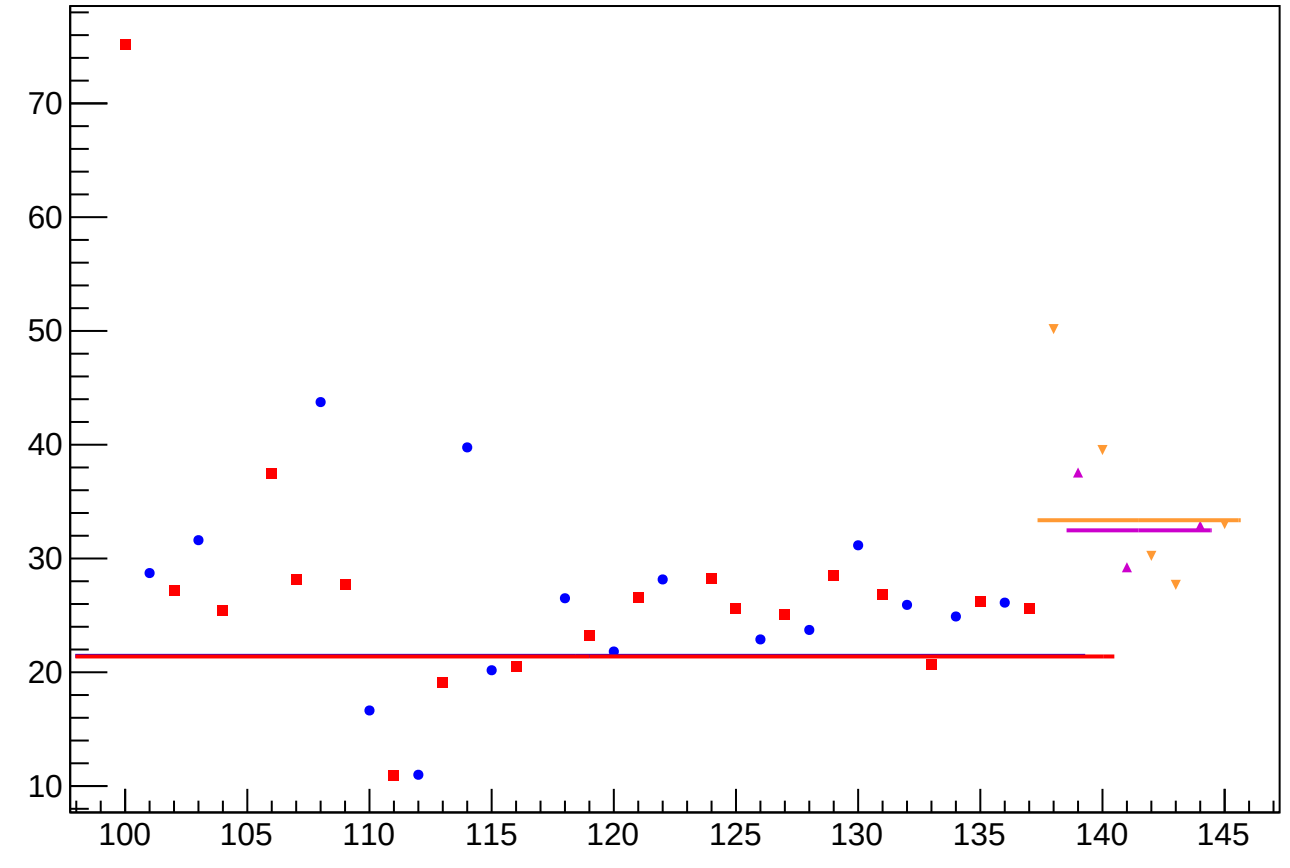
Left: -0.027+/-0.014 $\chi^2$/NDF: 4.9/7

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.014+/-0.008 $\chi^2$/NDF:21.8/18

Out: -0.006+/-0.008 $\chi^2$/NDF:28.3/23

All: 0.004+/-0.006 $\chi^2$/NDF: 53.4/42




Right In: 21.443+/-0.006 $\chi^2$/NDF: 1540859.8/15

Left Out: 33.363+/-0.013 $\chi^2$/NDF:272832.9/4

Right Out: 21.389+/-0.006 $\chi^2$/NDF: 1312055.7/18

Left In: 32.474+/-0.015 $\chi^2$/NDF:50950.2/2

Left: 32.971+/-0.010 $\chi^2$/NDF: 325878.6/7

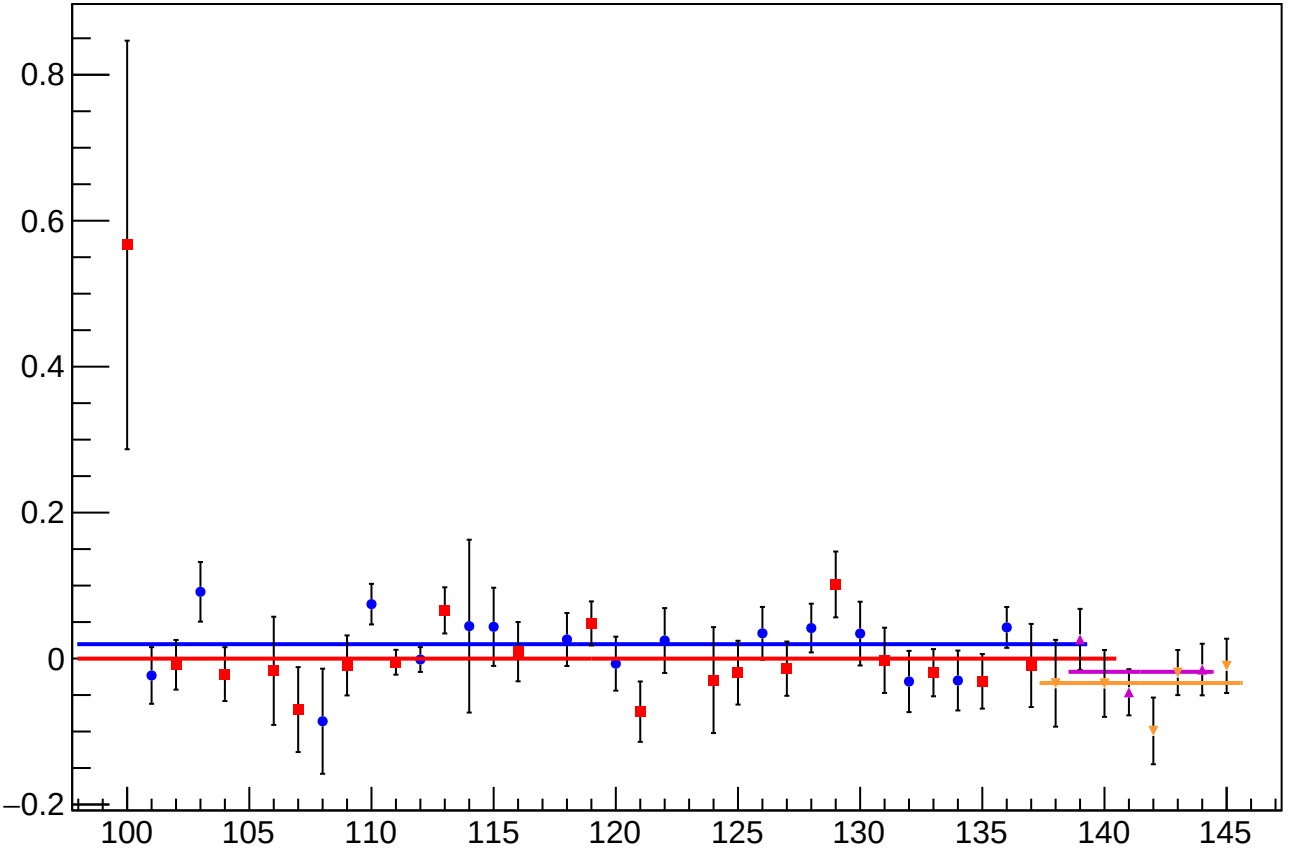
Right: 21.415+/-0.004 $\chi^2$/NDF: 2852955.1/34

In: 23.118+/-0.006 $\chi^2$/NDF:2081712.9/18

Out: 23.528+/-0.005 $\chi^2$/NDF:2292809.5/23

All: 23.330+/-0.004 $\chi^2$/NDF: 4377243.5/42

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: -0.033+/-0.018 $\chi^2$/NDF:2.7/4

Right Out: -0.000+/-0.009 $\chi^2$/NDF: 22.8/18

Left In: -0.018+/-0.021 $\chi^2$/NDF:1.9/2

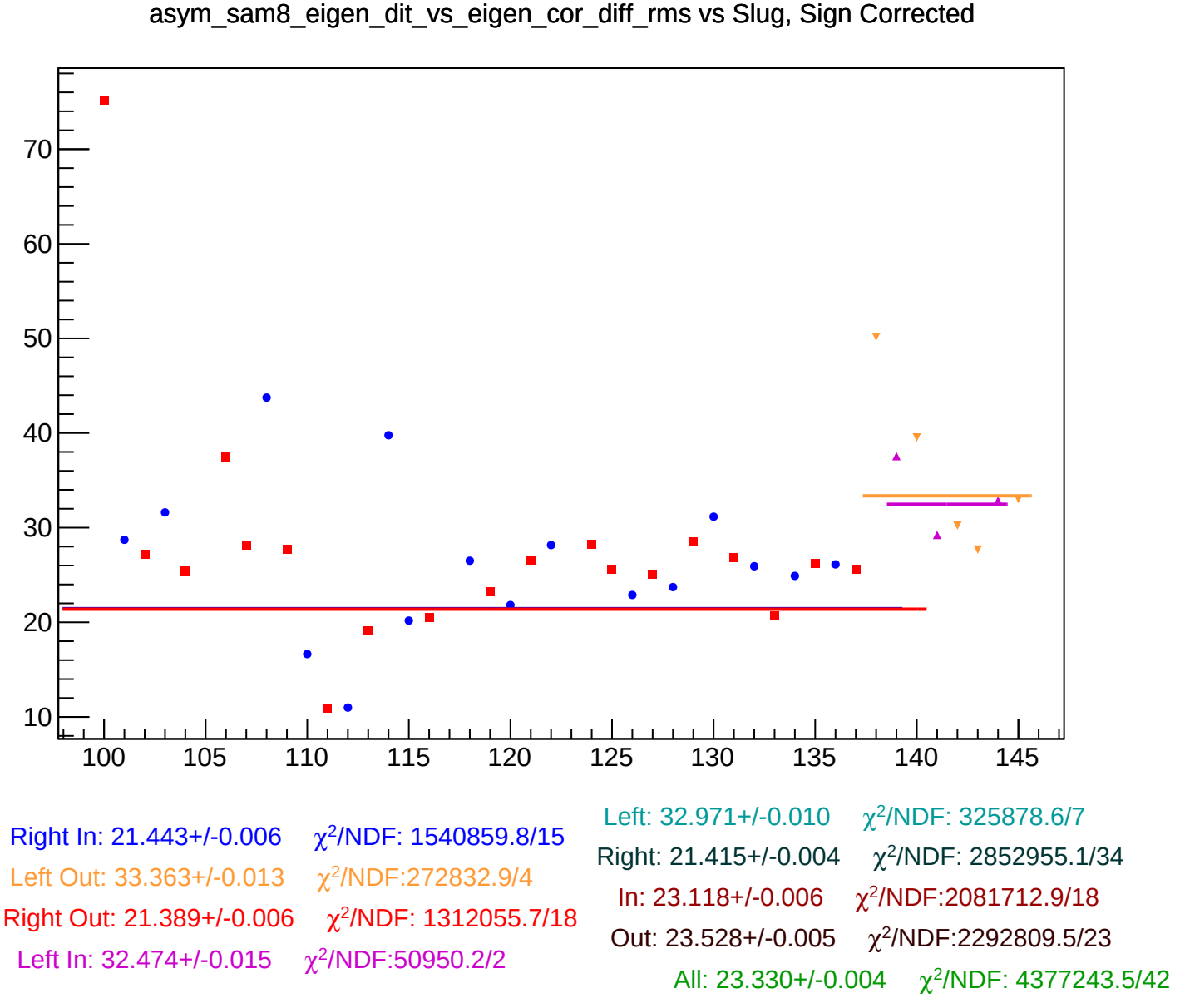
Left: -0.027+/-0.014 $\chi^2$/NDF: 4.9/7

Right: 0.010+/-0.006 $\chi^2$/NDF: 42.5/34

In: 0.014+/-0.008 $\chi^2$/NDF:21.8/18

Out: -0.006+/-0.008 $\chi^2$/NDF:28.3/23

All: 0.004+/-0.006 $\chi^2$/NDF: 53.4/42


asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
70
60
50
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115
120
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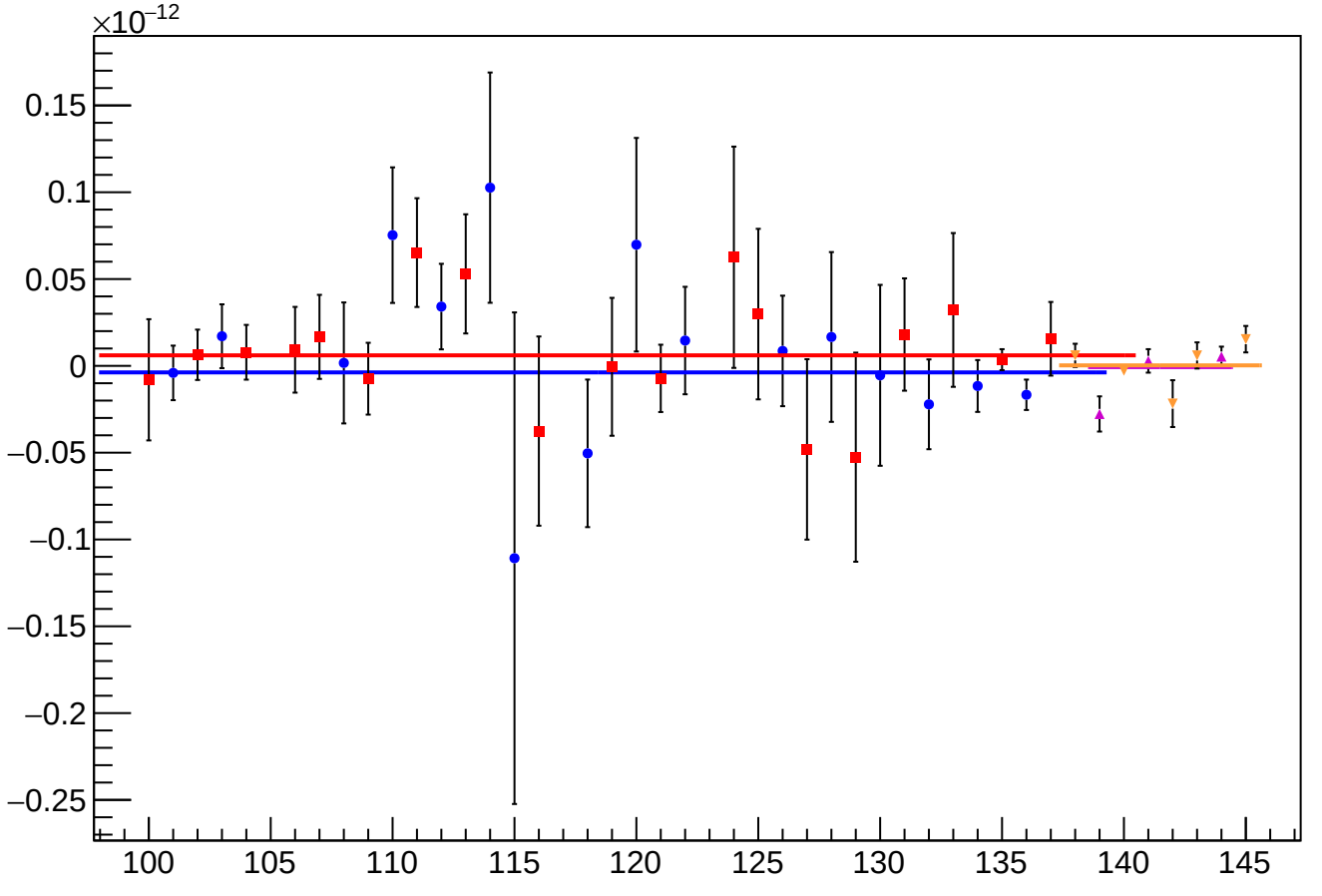
130
135
140
145
Right In: 21.443+/-0.006 χ²/NDF: 1540859.8/15
Left Out: 33.363+/-0.013 χ²/NDF:272832.9/4
Right Out: 21.389+/-0.006 χ²/NDF: 1312055.7/18
Left In: 32.474+/-0.015 χ²/NDF:50950.2/2
Left: 32.971+/-0.010 χ²/NDF: 325878.6/7
Right: 21.415+/-0.004 χ²/NDF: 2852955.1/34
In: 23.118+/-0.006 χ²/NDF:2081712.9/18
Out: 23.528+/-0.005 χ²/NDF:2292809.5/23
All: 23.330+/-0.004 χ²/NDF: 4377243.5/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 11.3/18

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

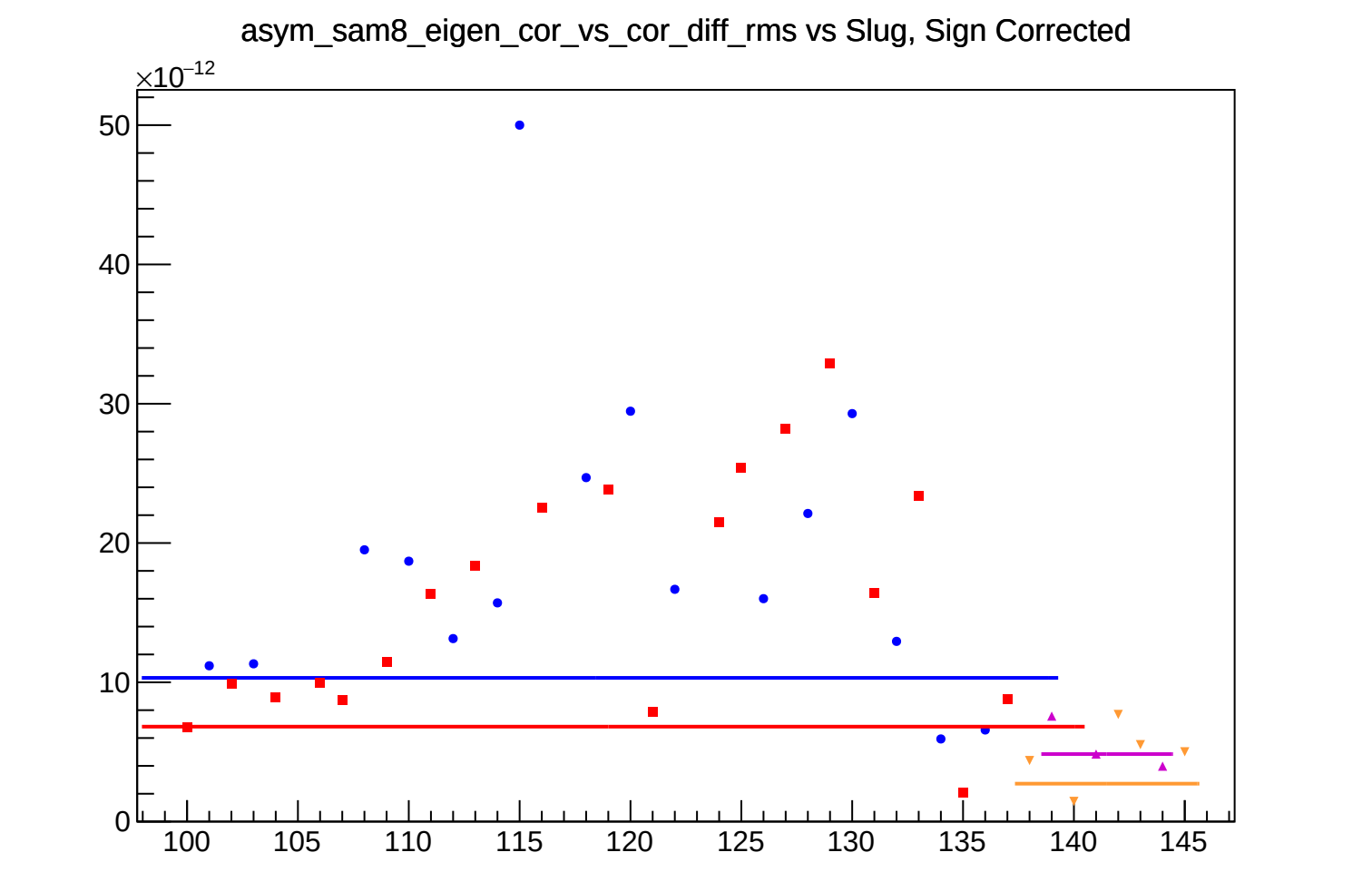
Left: 0.000+/-0.000 $\chi^2$/NDF: 17.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:25.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:21.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 48.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1951308.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1241578.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4021812.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:190640.4/2

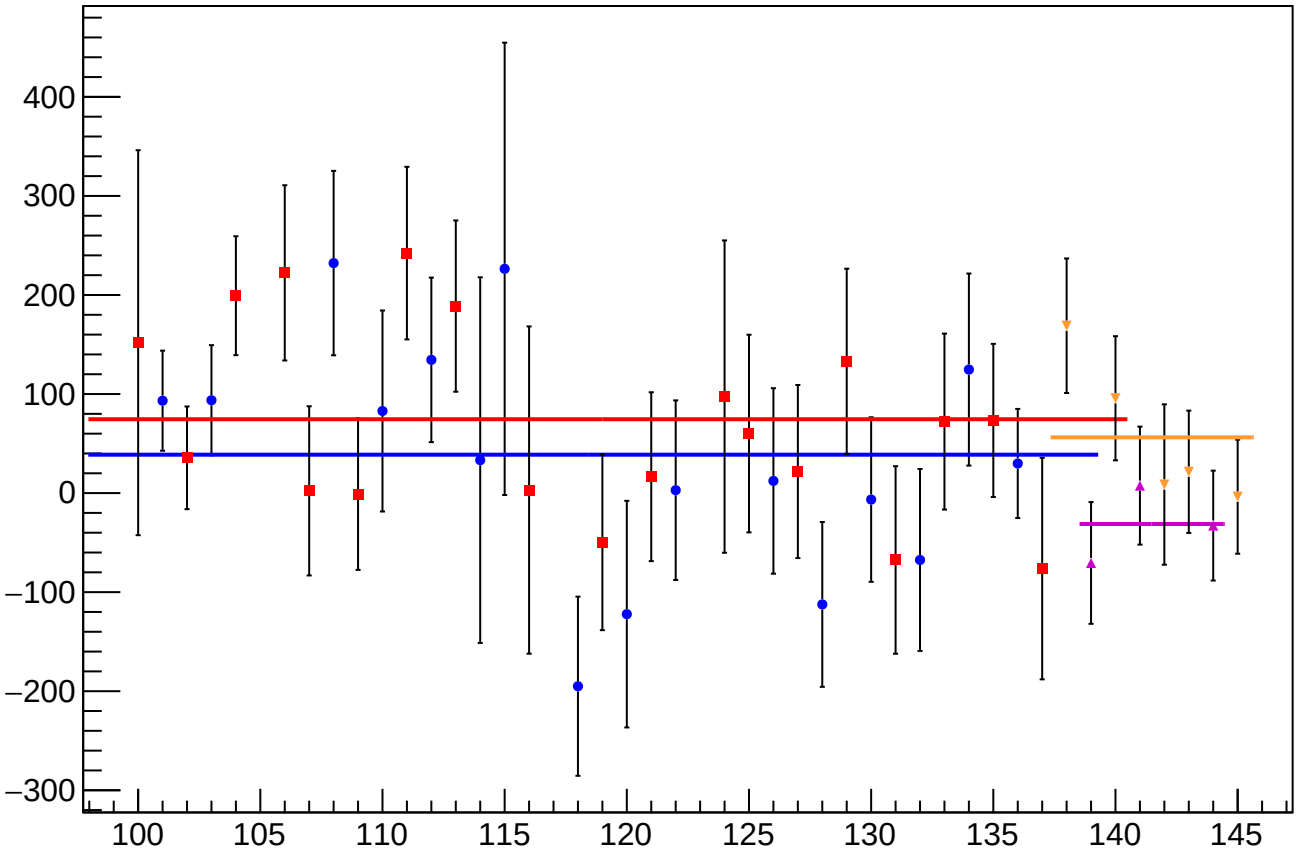
Left: 0.000+/-0.000 $\chi^2$/NDF: 1851360.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 6473556.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3435042.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:6646107.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11390605.8/42




Right In: 38.782+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 56.293+/-29.009 $\chi^2$/NDF:4.9/4

Right Out: 74.578+/-19.802 $\chi^2$/NDF: 22.5/18

Left In: -31.210+/-33.873 $\chi^2$/NDF:0.8/2

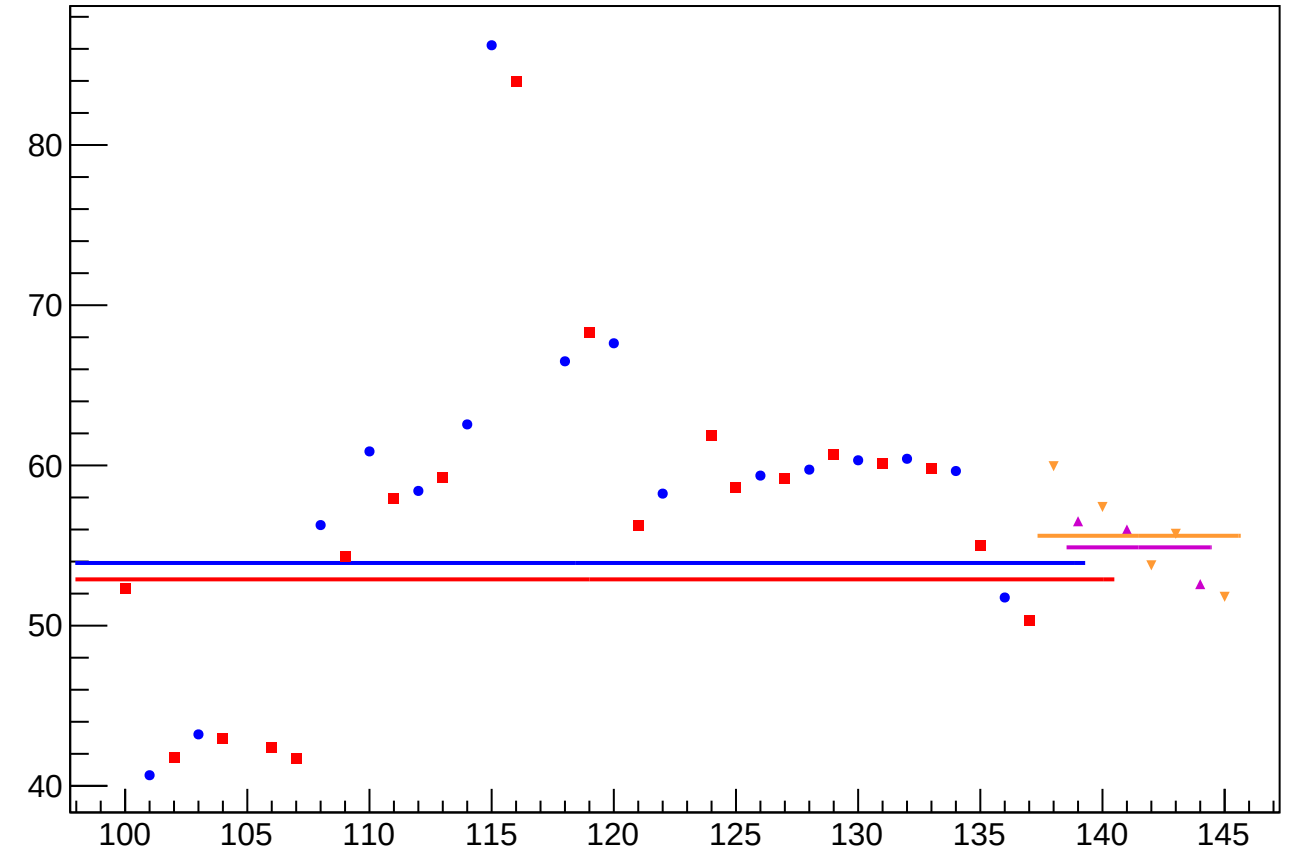
Left: 19.270+/-22.033 $\chi^2$/NDF: 9.6/7

Right: 57.224+/-14.213 $\chi^2$/NDF: 47.3/34

In: 20.135+/-17.484 $\chi^2$/NDF:27.3/18

Out: 68.766+/-16.355 $\chi^2$/NDF:27.6/23

All: 46.072+/-11.944 $\chi^2$/NDF: 59.0/42




Right In: 53.912+/-0.014 $\chi^2$/NDF: 393261.4/15

Left Out: 55.610+/-0.021 $\chi^2$/NDF:19625.3/4

Right Out: 52.889+/-0.014 $\chi^2$/NDF: 425226.7/18

Left In: 54.887+/-0.024 $\chi^2$/NDF:5523.2/2

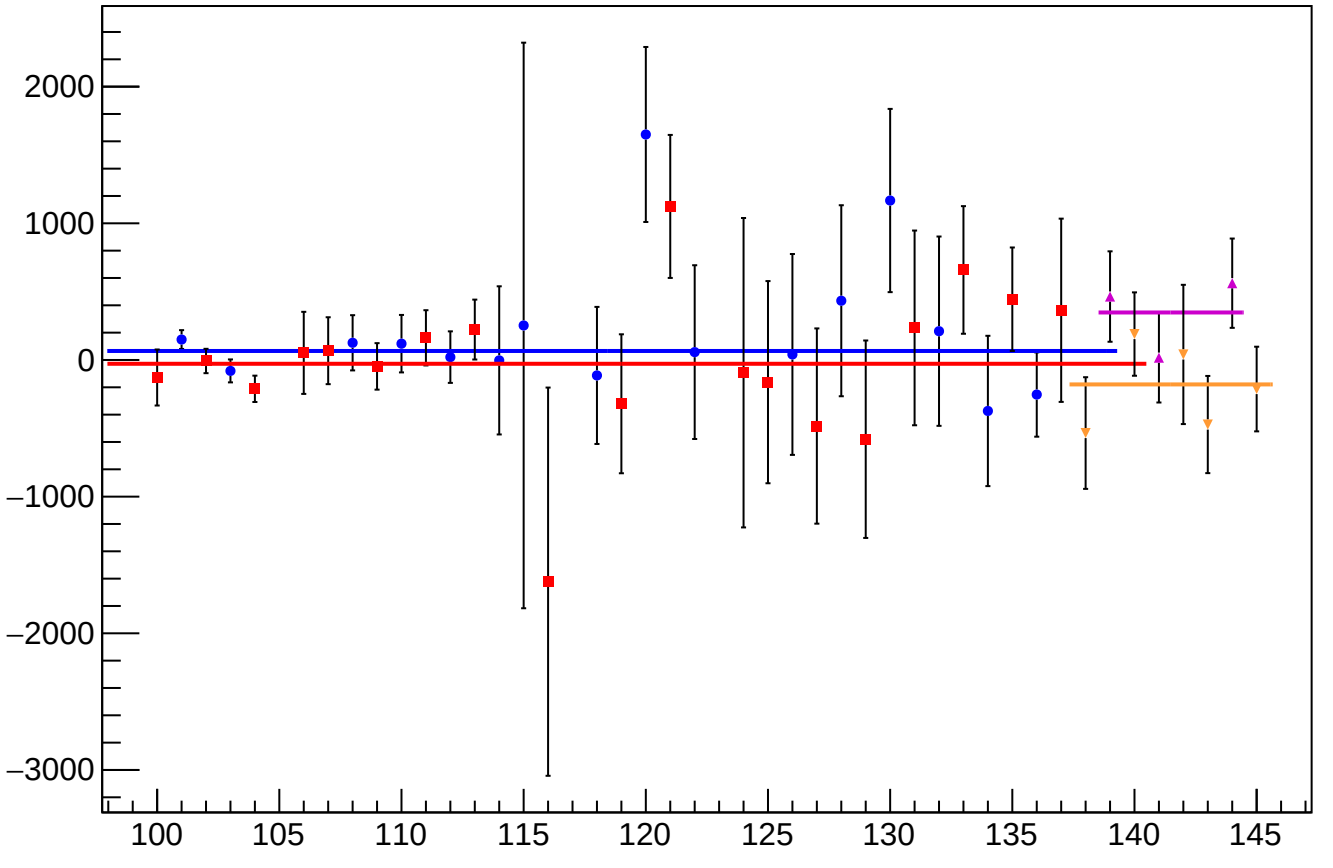
Left: 55.304+/-0.016 $\chi^2$/NDF: 25673.7/7

Right: 53.385+/-0.010 $\chi^2$/NDF: 821077.5/34

In: 54.172+/-0.012 $\chi^2$/NDF:400000.1/18

Out: 53.754+/-0.012 $\chi^2$/NDF:456854.9/23

All: 53.949+/-0.008 $\chi^2$/NDF: 857465.3/42




Right In: 65.853+/-46.478 $\chi^2$/NDF: 15.7/15

Left Out: -178.851+/-160.285 $\chi^2$/NDF:3.1/4

Right Out: -27.850+/-50.291 $\chi^2$/NDF: 18.0/18

Left In: 347.558+/-189.675 $\chi^2$/NDF:1.6/2

Left: 40.455+/-122.426 $\chi^2$/NDF: 9.2/7

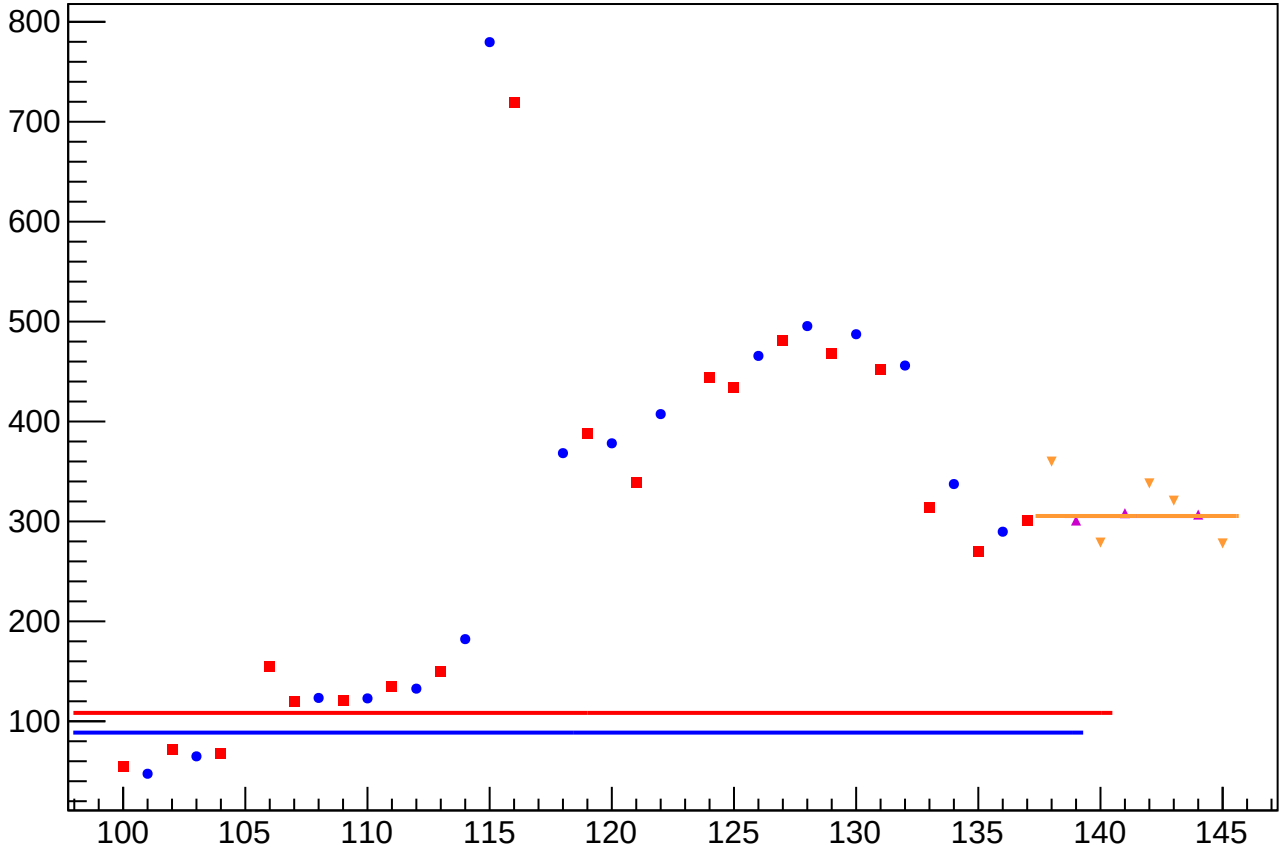
Right: 22.688+/-34.134 $\chi^2$/NDF: 35.6/34

In: 81.810+/-45.143 $\chi^2$/NDF:19.4/18

Out: -41.383+/-47.985 $\chi^2$/NDF:21.9/23

All: 23.969+/-32.880 $\chi^2$/NDF: 44.7/42

asym_sam_15_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 88.658+/-0.033 $\chi^2$/NDF: 6648055.6/15

Left Out: 305.447+/-0.113 $\chi^2$/NDF:78375.2/4

Right Out: 108.385+/-0.036 $\chi^2$/NDF: 5362841.6/18

Left In: 305.392+/-0.134 $\chi^2$/NDF:560.9/2

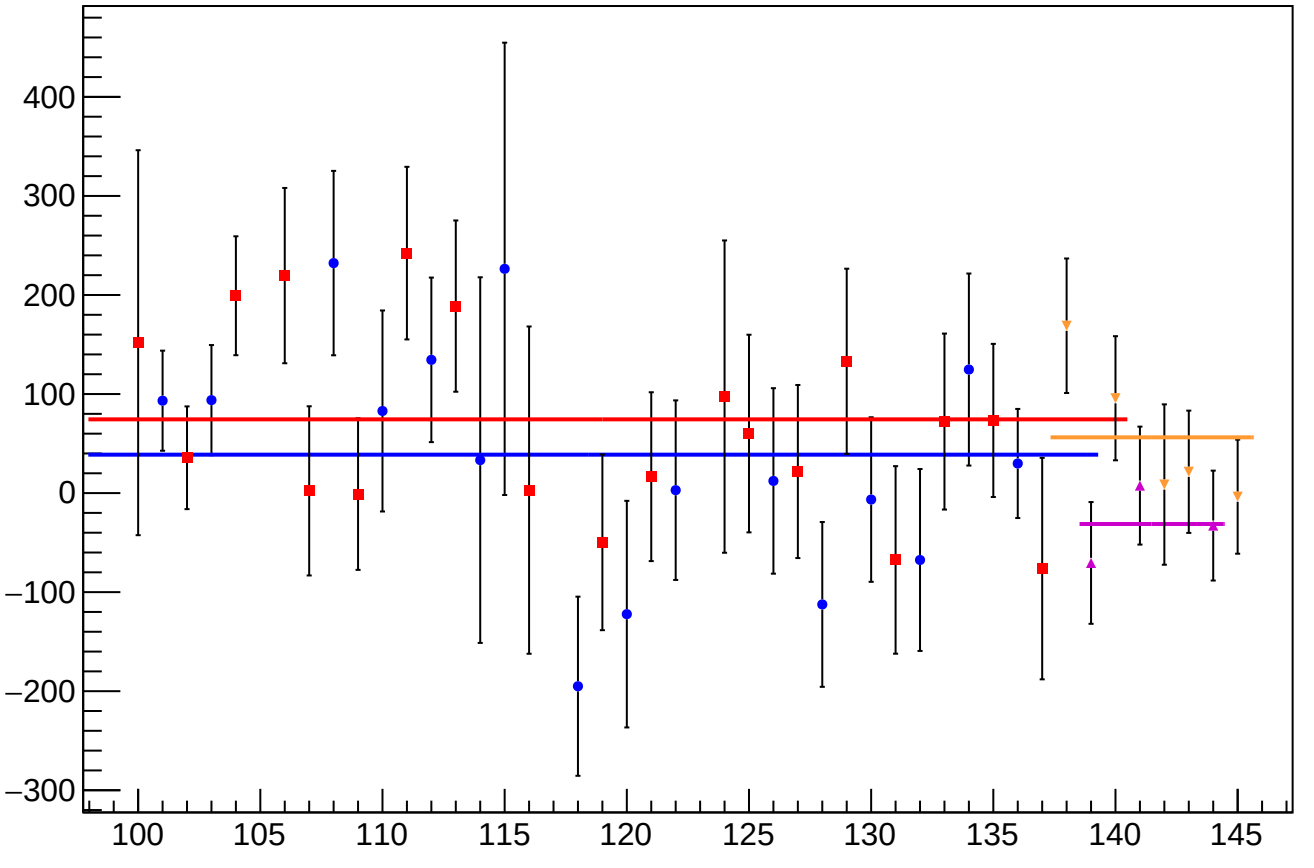
Left: 305.424+/-0.087 $\chi^2$/NDF: 78936.2/7

Right: 97.745+/-0.024 $\chi^2$/NDF: 12176874.0/34

In: 100.935+/-0.032 $\chi^2$/NDF:9112052.2/18

Out: 126.047+/-0.034 $\chi^2$/NDF:8193361.3/23

All: 112.725+/-0.023 $\chi^2$/NDF: 17595988.6/42




Right In: 38.794+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 56.298+/-29.009 $\chi^2$/NDF:4.9/4

Right Out: 74.442+/-19.803 $\chi^2$/NDF: 22.3/18

Left In: -31.206+/-33.873 $\chi^2$/NDF:0.8/2

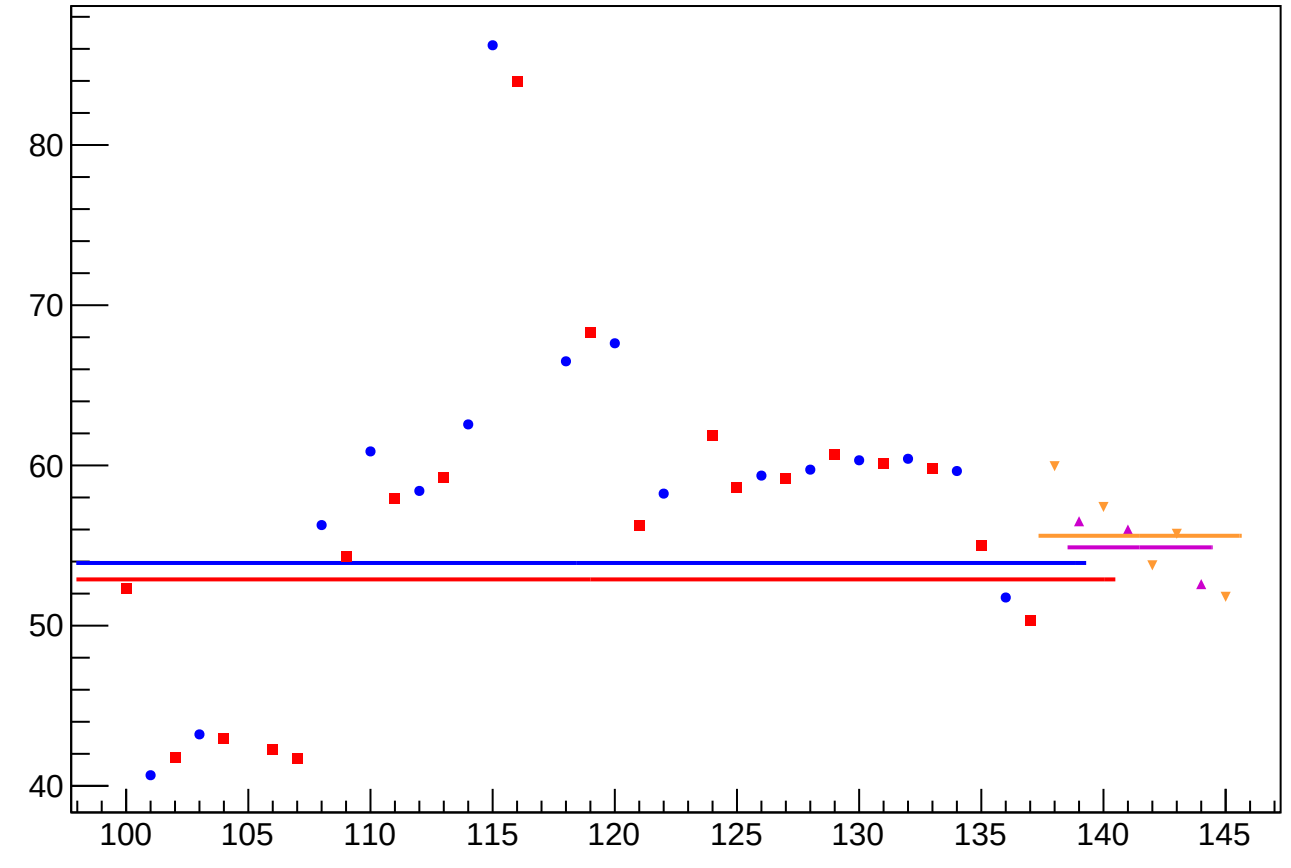
Left: 19.274+/-22.033 $\chi^2$/NDF: 9.6/7

Right: 57.159+/-14.214 $\chi^2$/NDF: 47.2/34

In: 20.145+/-17.484 $\chi^2$/NDF:27.3/18

Out: 68.674+/-16.355 $\chi^2$/NDF:27.5/23

All: 46.026+/-11.944 $\chi^2$/NDF: 58.9/42




Right In: 53.912+/-0.014 $\chi^2$/NDF: 393260.8/15

Left Out: 55.610+/-0.021 $\chi^2$/NDF:19625.3/4

Right Out: 52.887+/-0.014 $\chi^2$/NDF: 425534.3/18

Left In: 54.887+/-0.024 $\chi^2$/NDF:5523.2/2

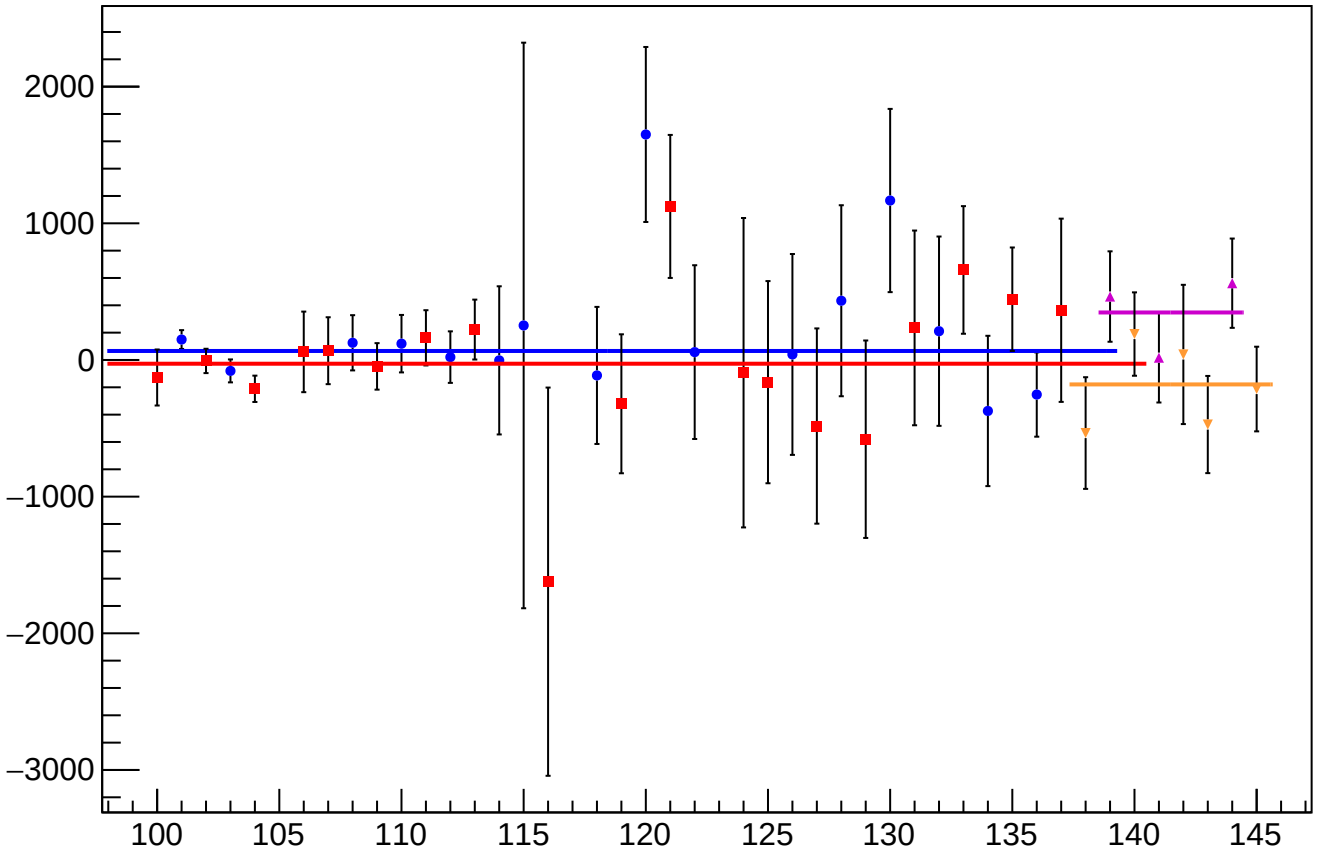
Left: 55.304+/-0.016 $\chi^2$/NDF: 25673.7/7

Right: 53.384+/-0.010 $\chi^2$/NDF: 821395.7/34

In: 54.172+/-0.012 $\chi^2$/NDF:399999.4/18

Out: 53.752+/-0.012 $\chi^2$/NDF:457181.8/23

All: 53.948+/-0.008 $\chi^2$/NDF: 857795.7/42




Right In: 65.857+/-46.477 $\chi^2$/NDF: 15.7/15

Left Out: -178.846+/-160.285 $\chi^2$/NDF:3.1/4

Right Out: -27.406+/-50.249 $\chi^2$/NDF: 18.0/18

Left In: 347.556+/-189.675 $\chi^2$/NDF:1.6/2

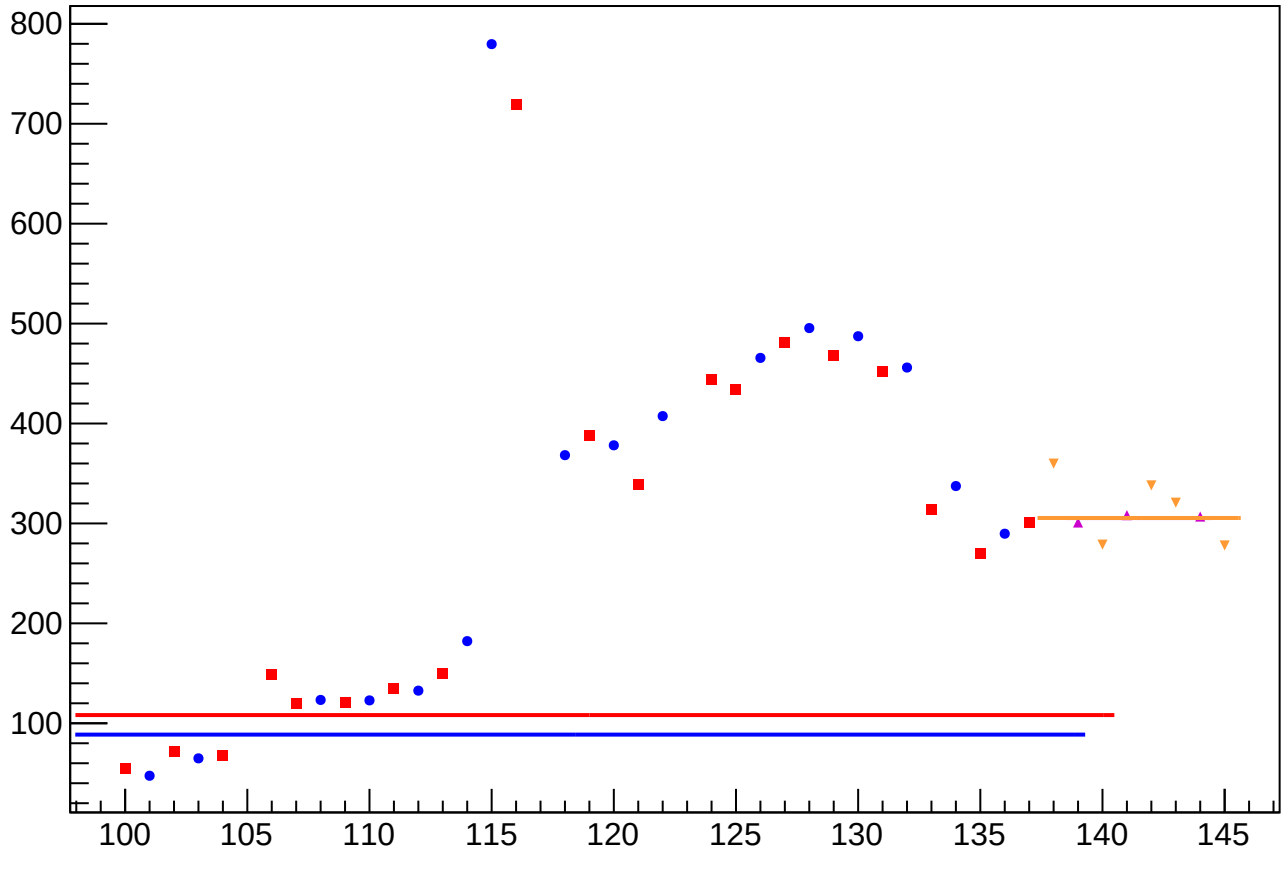
Left: 40.457+/-122.426 $\chi^2$/NDF: 9.2/7

Right: 22.856+/-34.120 $\chi^2$/NDF: 35.6/34

In: 81.813+/-45.142 $\chi^2$/NDF:19.4/18

Out: -40.957+/-47.948 $\chi^2$/NDF:21.9/23

All: 24.125+/-32.867 $\chi^2$/NDF: 44.7/42




Right In: 88.655+/-0.033 $\chi^2$/NDF: 6648135.5/15

Left Out: 305.447+/-0.113 $\chi^2$/NDF:78376.2/4

Right Out: 108.207+/-0.036 $\chi^2$/NDF: 5354864.8/18

Left In: 305.392+/-0.134 $\chi^2$/NDF:561.0/2

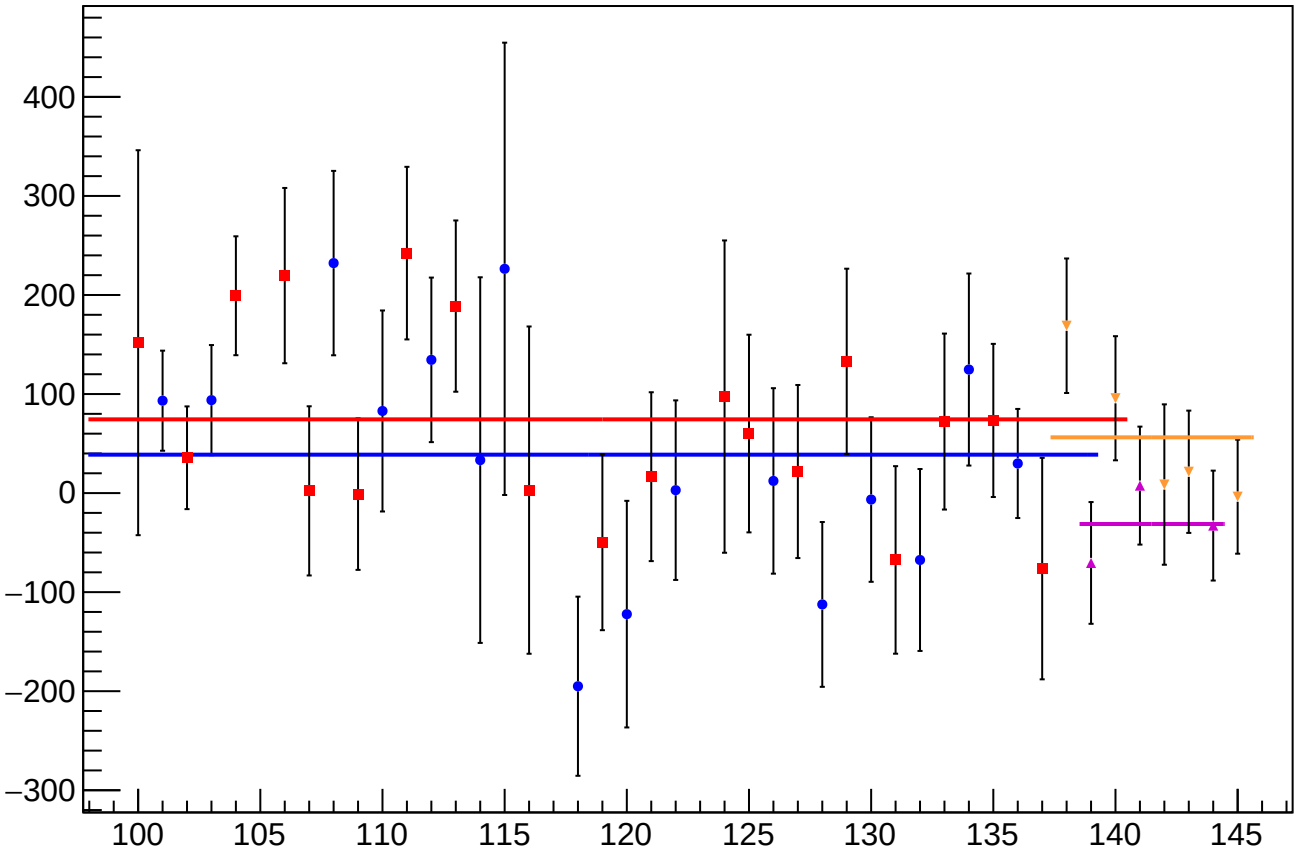
Left: 305.424+/-0.087 $\chi^2$/NDF: 78937.3/7

Right: 97.670+/-0.024 $\chi^2$/NDF: 12166180.8/34

In: 100.932+/-0.032 $\chi^2$/NDF:9112195.5/18

Out: 125.857+/-0.034 $\chi^2$/NDF:8190794.0/23

All: 112.644+/-0.023 $\chi^2$/NDF: 17589493.1/42




Right In: 38.794+/-20.413 $\chi^2$/NDF: 23.3/15

Left Out: 56.298+/-29.009 $\chi^2$/NDF:4.9/4

Right Out: 74.442+/-19.803 $\chi^2$/NDF: 22.3/18

Left In: -31.206+/-33.873 $\chi^2$/NDF:0.8/2

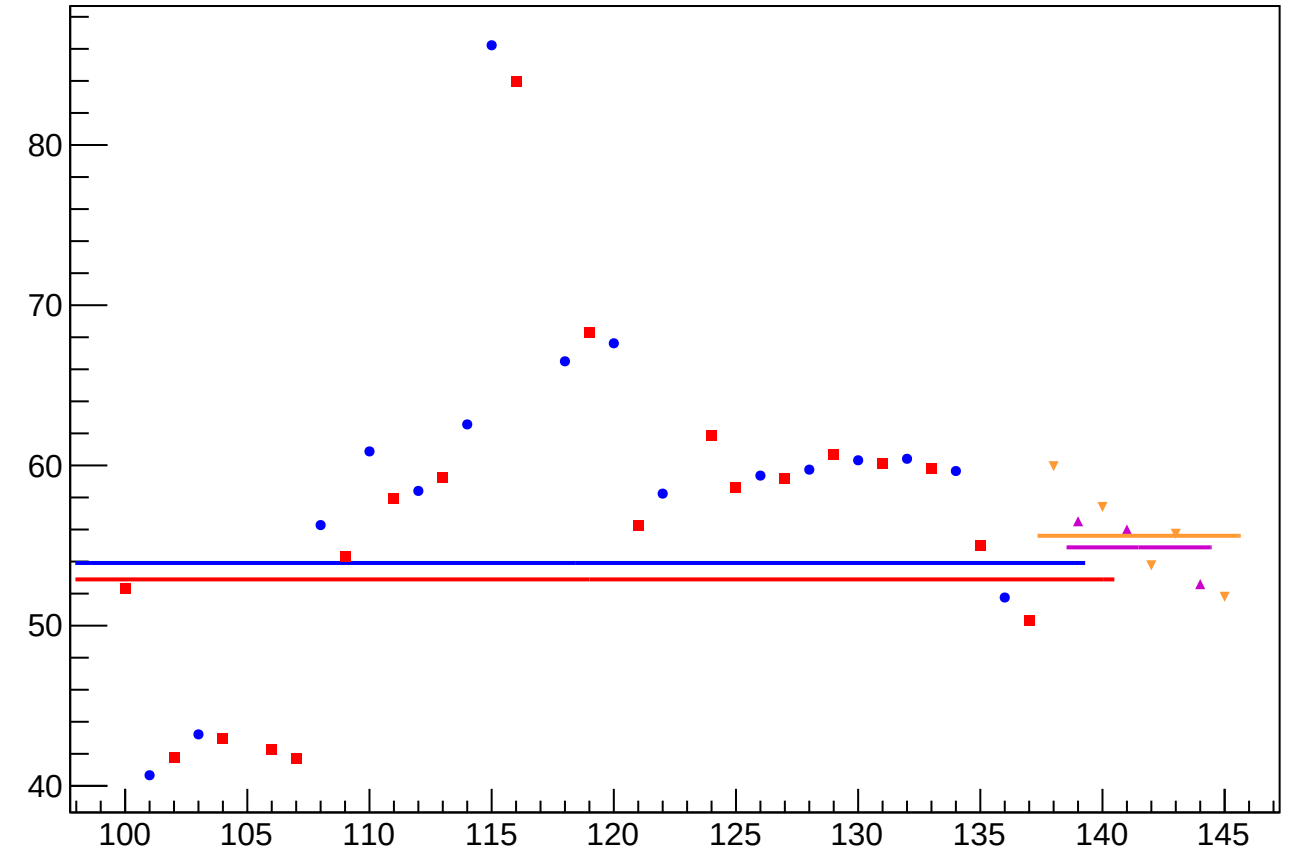
Left: 19.274+/-22.033 $\chi^2$/NDF: 9.6/7

Right: 57.159+/-14.214 $\chi^2$/NDF: 47.2/34

In: 20.145+/-17.484 $\chi^2$/NDF:27.3/18

Out: 68.674+/-16.355 $\chi^2$/NDF:27.5/23

All: 46.026+/-11.944 $\chi^2$/NDF: 58.9/42




Right In: 53.912+/-0.014 $\chi^2$/NDF: 393260.8/15

Left Out: 55.610+/-0.021 $\chi^2$/NDF:19625.3/4

Right Out: 52.887+/-0.014 $\chi^2$/NDF: 425534.3/18

Left In: 54.887+/-0.024 $\chi^2$/NDF:5523.2/2

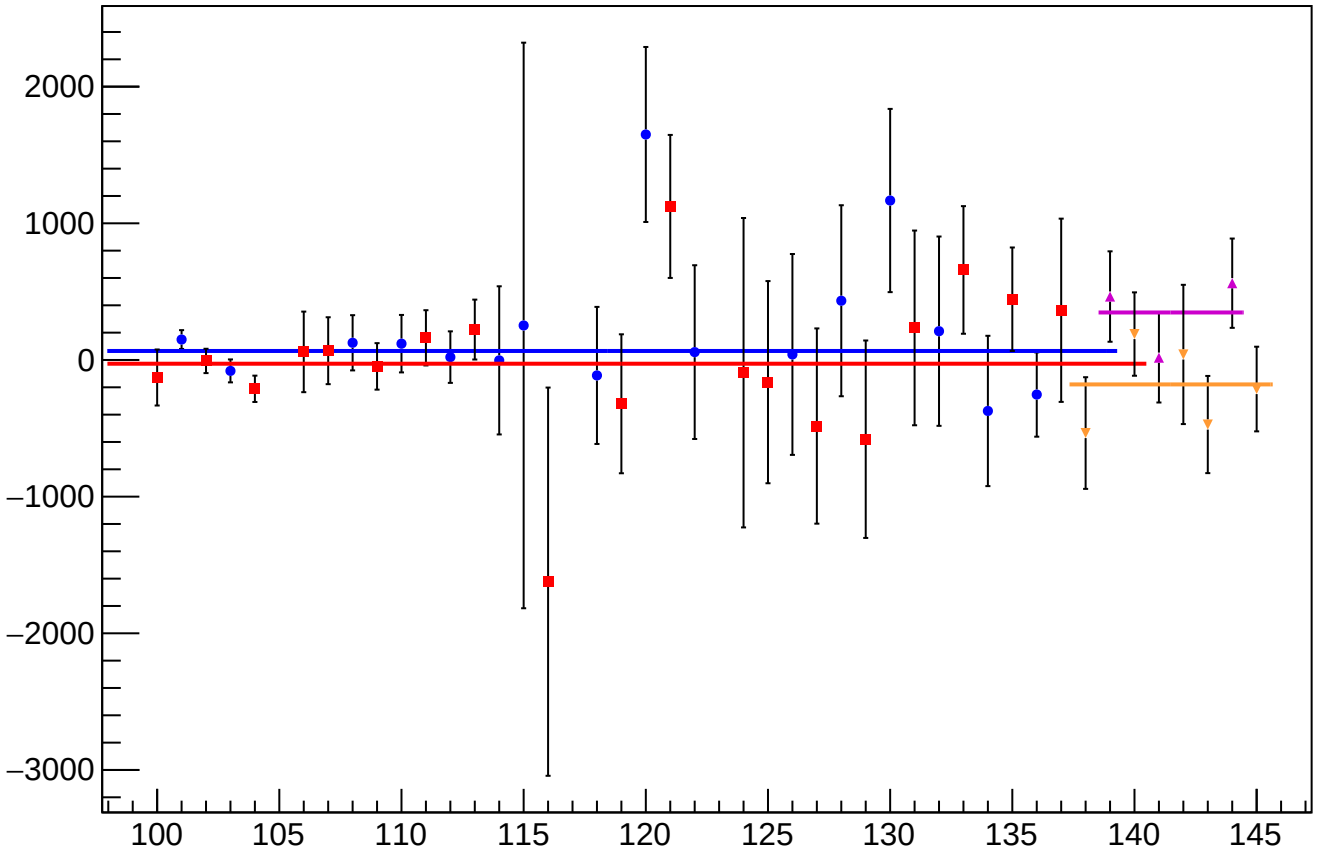
Left: 55.304+/-0.016 $\chi^2$/NDF: 25673.7/7

Right: 53.384+/-0.010 $\chi^2$/NDF: 821395.7/34

In: 54.172+/-0.012 $\chi^2$/NDF:399999.4/18

Out: 53.752+/-0.012 $\chi^2$/NDF:457181.8/23

All: 53.948+/-0.008 $\chi^2$/NDF: 857795.7/42




Right In: 65.857+/-46.477 $\chi^2$/NDF: 15.7/15

Left Out: -178.846+/-160.285 $\chi^2$/NDF:3.1/4

Right Out: -27.406+/-50.249 $\chi^2$/NDF: 18.0/18

Left In: 347.556+/-189.675 $\chi^2$/NDF:1.6/2

Left: 40.457+/-122.426 $\chi^2$/NDF: 9.2/7

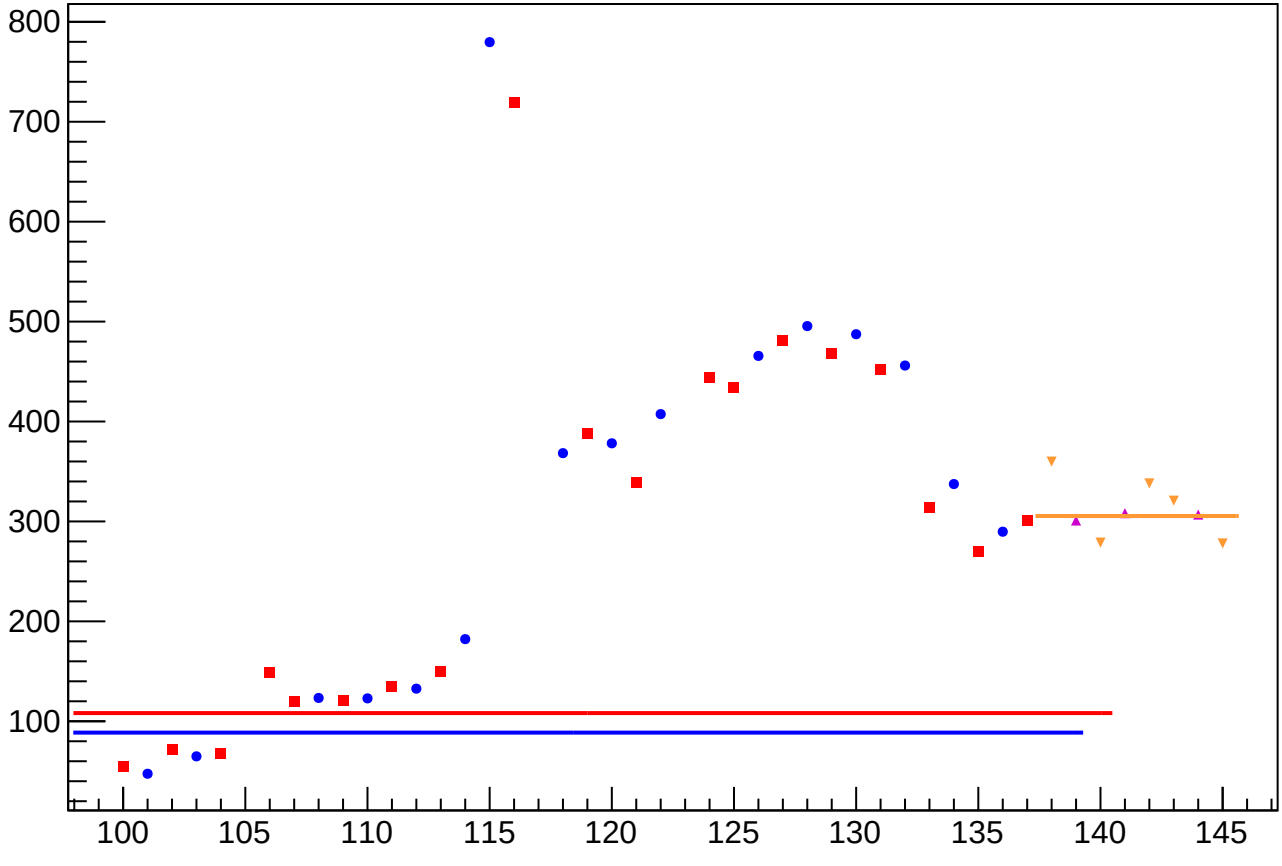
Right: 22.856+/-34.120 $\chi^2$/NDF: 35.6/34

In: 81.813+/-45.142 $\chi^2$/NDF:19.4/18

Out: -40.957+/-47.948 $\chi^2$/NDF:21.9/23

All: 24.125+/-32.867 $\chi^2$/NDF: 44.7/42

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: 305.447+/-0.113 $\chi^2$/NDF:78376.2/4

Right Out: 108.207+/-0.036 $\chi^2$/NDF: 5354864.8/18

Left In: 305.392+/-0.134 $\chi^2$/NDF:561.0/2

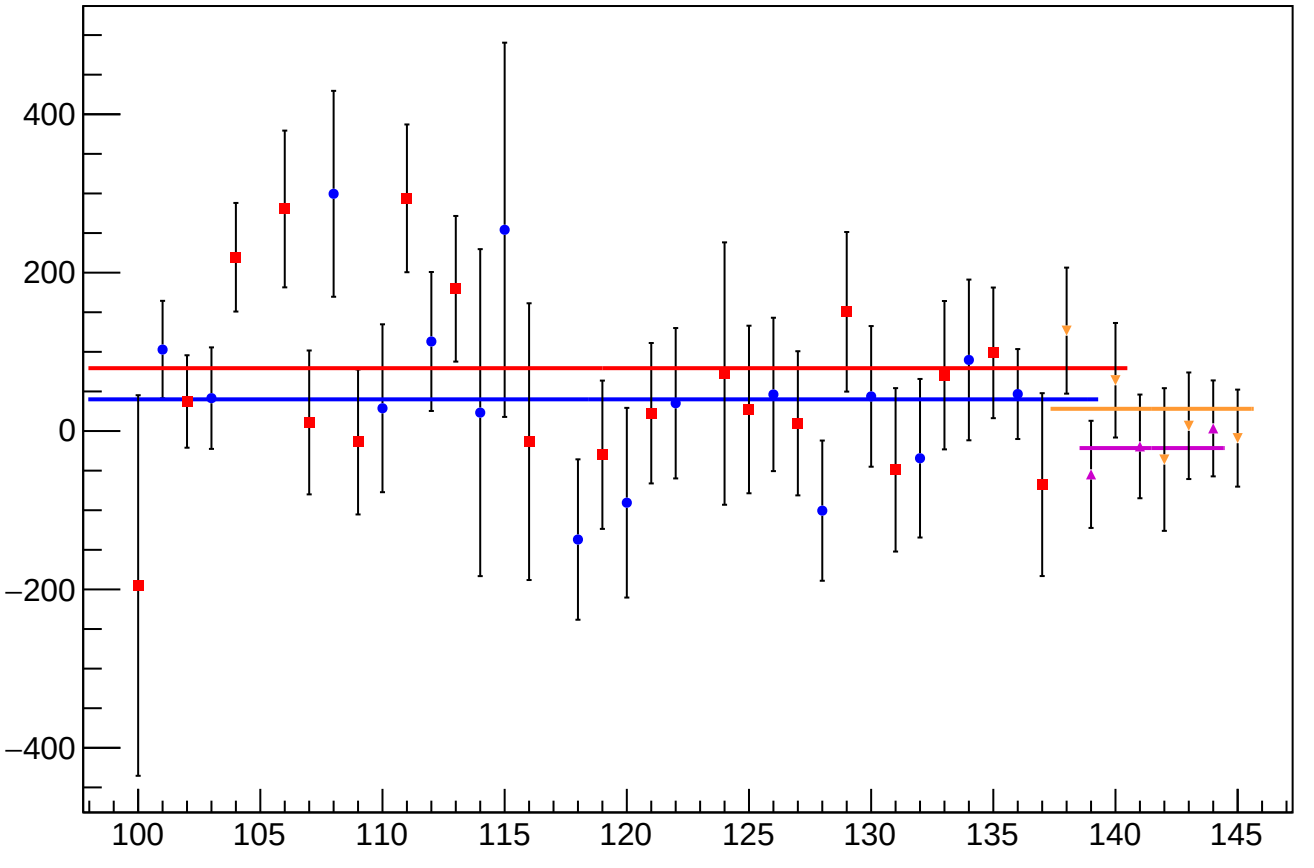
Left: 305.424+/-0.087 $\chi^2$/NDF: 78937.3/7

Right: 97.670+/-0.024 $\chi^2$/NDF: 12166180.8/34

In: 100.932+/-0.032 $\chi^2$/NDF:9112195.5/18

Out: 125.857+/-0.034 $\chi^2$/NDF:8190794.0/23

All: 112.644+/-0.023 $\chi^2$/NDF: 17589493.1/42




Right In: 40.030+/-22.515 $\chi^2$/NDF: 14.1/15

Left Out: 28.072+/-32.281 $\chi^2$/NDF:2.8/4

Right Out: 79.378+/-21.577 $\chi^2$/NDF: 24.8/18

Left In: -21.504+/-37.154 $\chi^2$/NDF:0.4/2

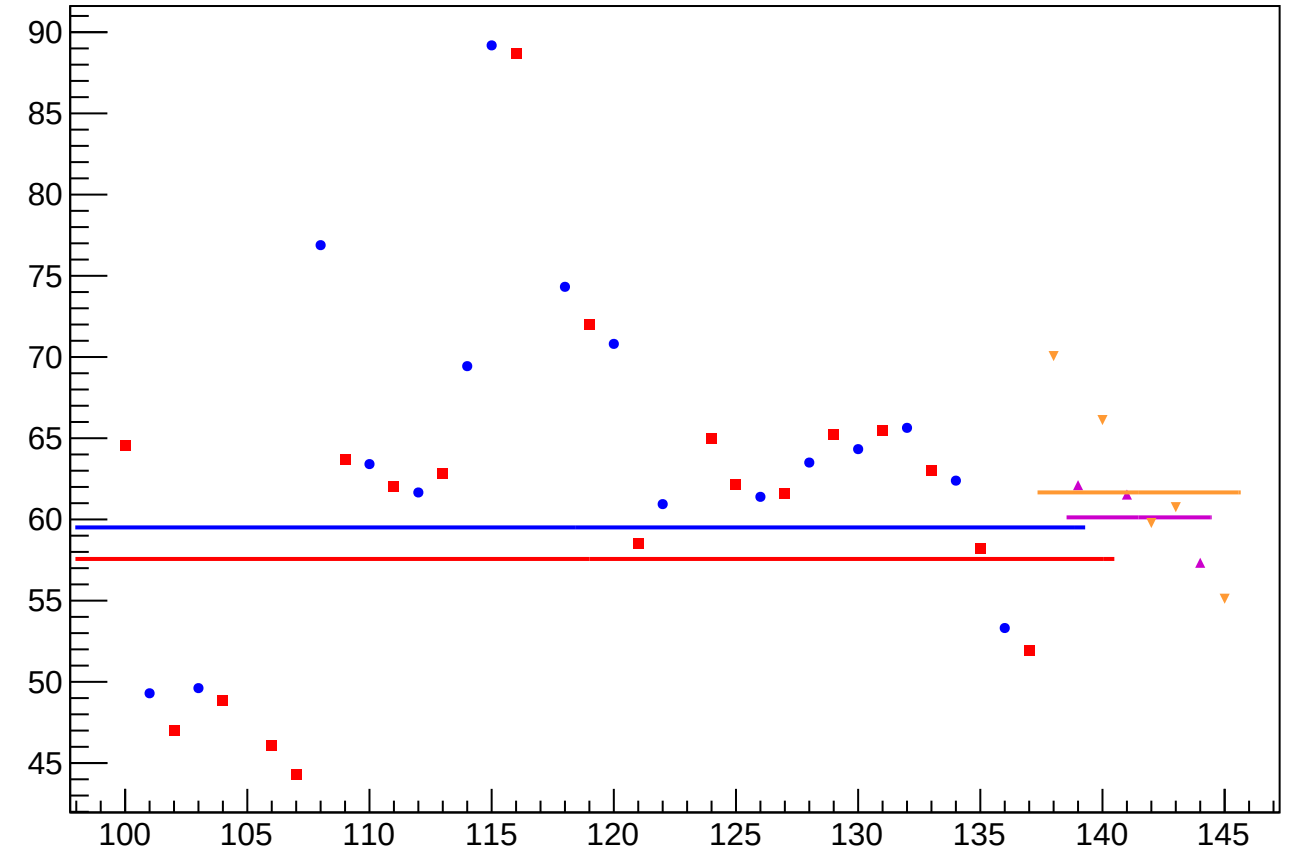
Left: 6.747+/-24.368 $\chi^2$/NDF: 4.2/7

Right: 60.541+/-15.578 $\chi^2$/NDF: 40.5/34

In: 23.503+/-19.255 $\chi^2$/NDF:16.6/18

Out: 63.535+/-17.939 $\chi^2$/NDF:29.3/23

All: 44.934+/-13.125 $\chi^2$/NDF: 48.2/42




Right In: 59.509+/-0.016 $\chi^2$/NDF: 283192.7/15

Left Out: 61.664+/-0.023 $\chi^2$/NDF:53914.4/4

Right Out: 57.567+/-0.015 $\chi^2$/NDF: 347377.8/18

Left In: 60.127+/-0.026 $\chi^2$/NDF:6895.1/2

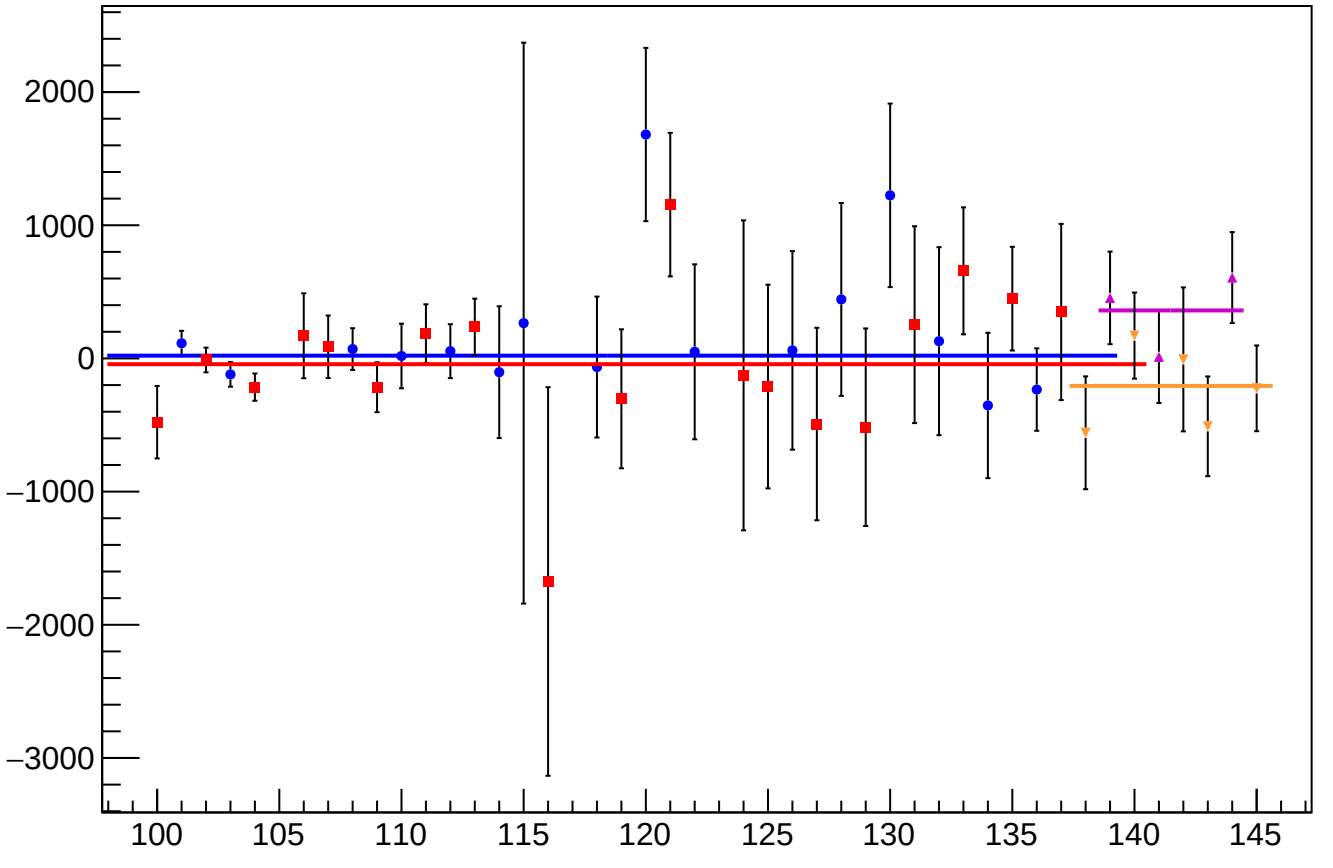
Left: 61.003+/-0.017 $\chi^2$/NDF: 62758.5/7

Right: 58.497+/-0.011 $\chi^2$/NDF: 638326.1/34

In: 59.675+/-0.014 $\chi^2$/NDF:290492.9/18

Out: 58.832+/-0.013 $\chi^2$/NDF:423556.3/23

All: 59.224+/-0.009 $\chi^2$/NDF: 716100.8/42




Right In: 20.840+/-53.585 $\chi^2$/NDF: 14.6/15

Left Out: -206.453+/-168.195 $\chi^2$/NDF:2.9/4

Right Out: -43.262+/-53.210 $\chi^2$/NDF: 21.5/18

Left In: 360.459+/-199.370 $\chi^2$/NDF:1.6/2

Left: 29.264+/-128.558 $\chi^2$/NDF: 9.2/7

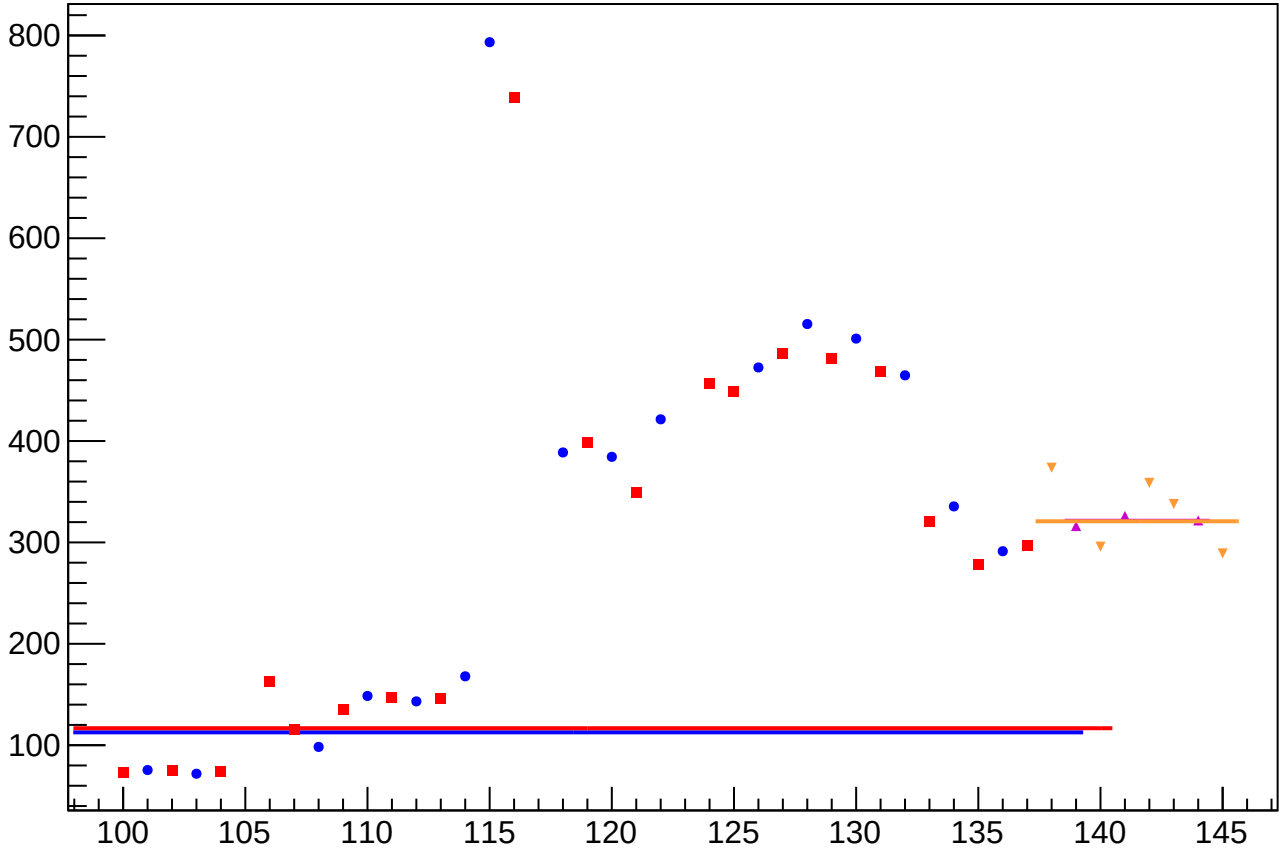
Right: -11.436+/-37.757 $\chi^2$/NDF: 36.9/34

In: 43.721+/-51.749 $\chi^2$/NDF:18.9/18

Out: -58.109+/-50.732 $\chi^2$/NDF:25.2/23

All: -8.204+/-36.227 $\chi^2$/NDF: 46.1/42

asym_sam_15_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 112.668+/-0.038 $\chi^2$/NDF: 5599655.1/15

Left Out: 320.848+/-0.119 $\chi^2$/NDF:76426.8/4

Right Out: 116.733+/-0.038 $\chi^2$/NDF: 5141387.7/18

Left In: 321.344+/-0.141 $\chi^2$/NDF:824.6/2

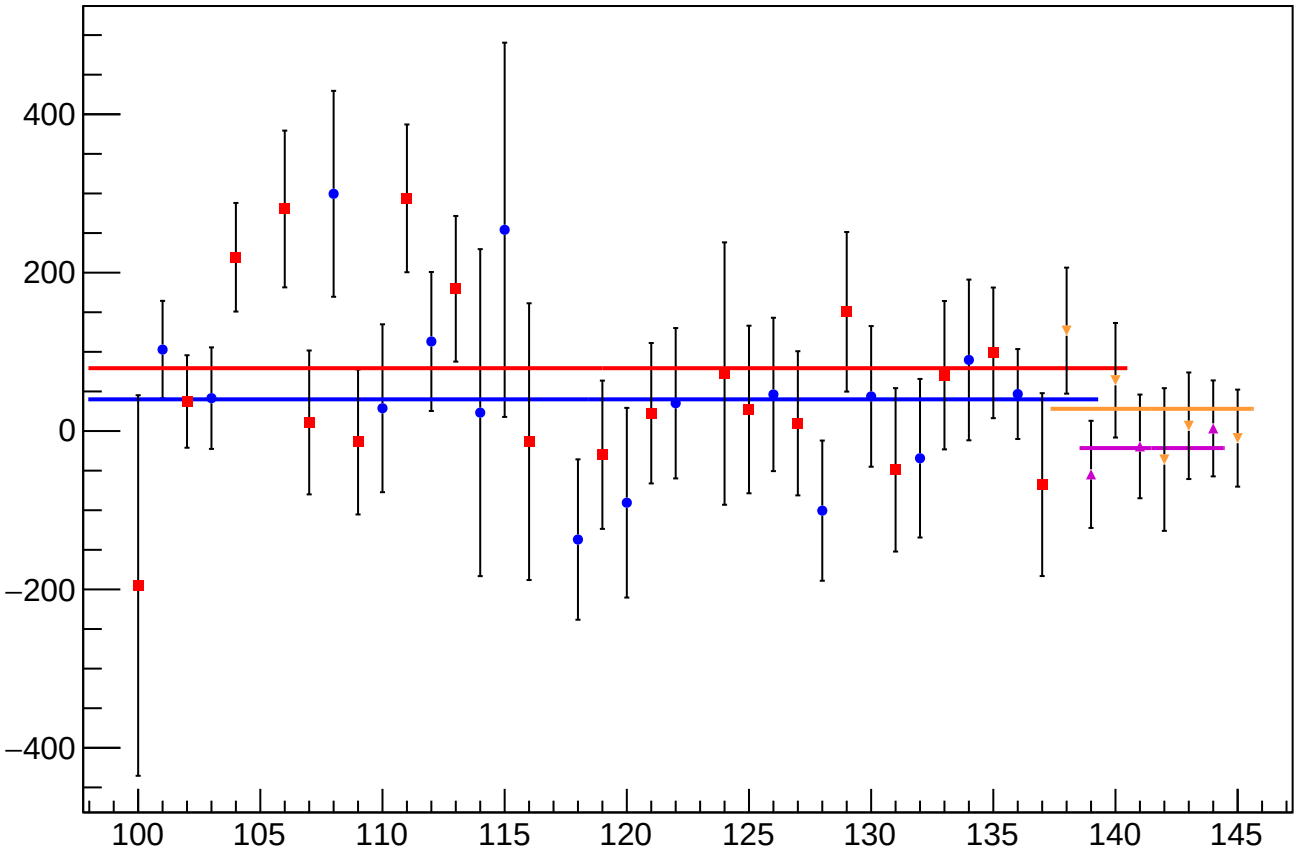
Left: 321.055+/-0.091 $\chi^2$/NDF: 77258.6/7

Right: 114.715+/-0.027 $\chi^2$/NDF: 10746836.7/34

In: 126.727+/-0.037 $\chi^2$/NDF:7643927.7/18

Out: 135.303+/-0.036 $\chi^2$/NDF:7895320.8/23

All: 131.100+/-0.026 $\chi^2$/NDF: 15567256.7/42




Right In: 40.030+/-22.515 $\chi^2$/NDF: 14.1/15

Left Out: 28.072+/-32.281 $\chi^2$/NDF:2.8/4

Right Out: 79.378+/-21.577 $\chi^2$/NDF: 24.8/18

Left In: -21.503+/-37.155 $\chi^2$/NDF:0.4/2

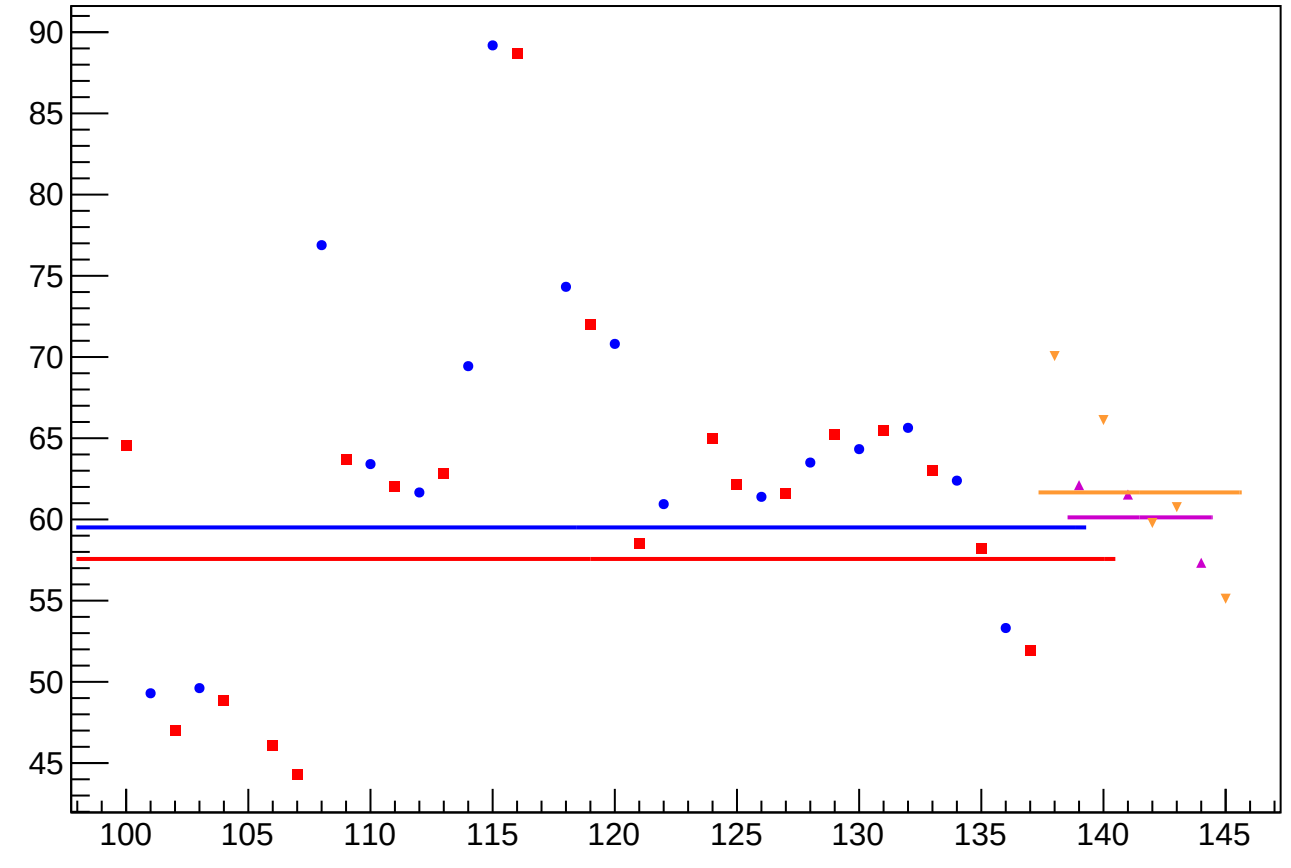
Left: 6.747+/-24.368 $\chi^2$/NDF: 4.2/7

Right: 60.540+/-15.578 $\chi^2$/NDF: 40.5/34

In: 23.503+/-19.255 $\chi^2$/NDF:16.6/18

Out: 63.534+/-17.939 $\chi^2$/NDF:29.3/23

All: 44.934+/-13.125 $\chi^2$/NDF: 48.2/42




Right In: 59.509+/-0.016 $\chi^2$/NDF: 283190.4/15

Left Out: 61.664+/-0.023 $\chi^2$/NDF:53917.3/4

Right Out: 57.567+/-0.015 $\chi^2$/NDF: 347374.2/18

Left In: 60.127+/-0.026 $\chi^2$/NDF:6896.1/2

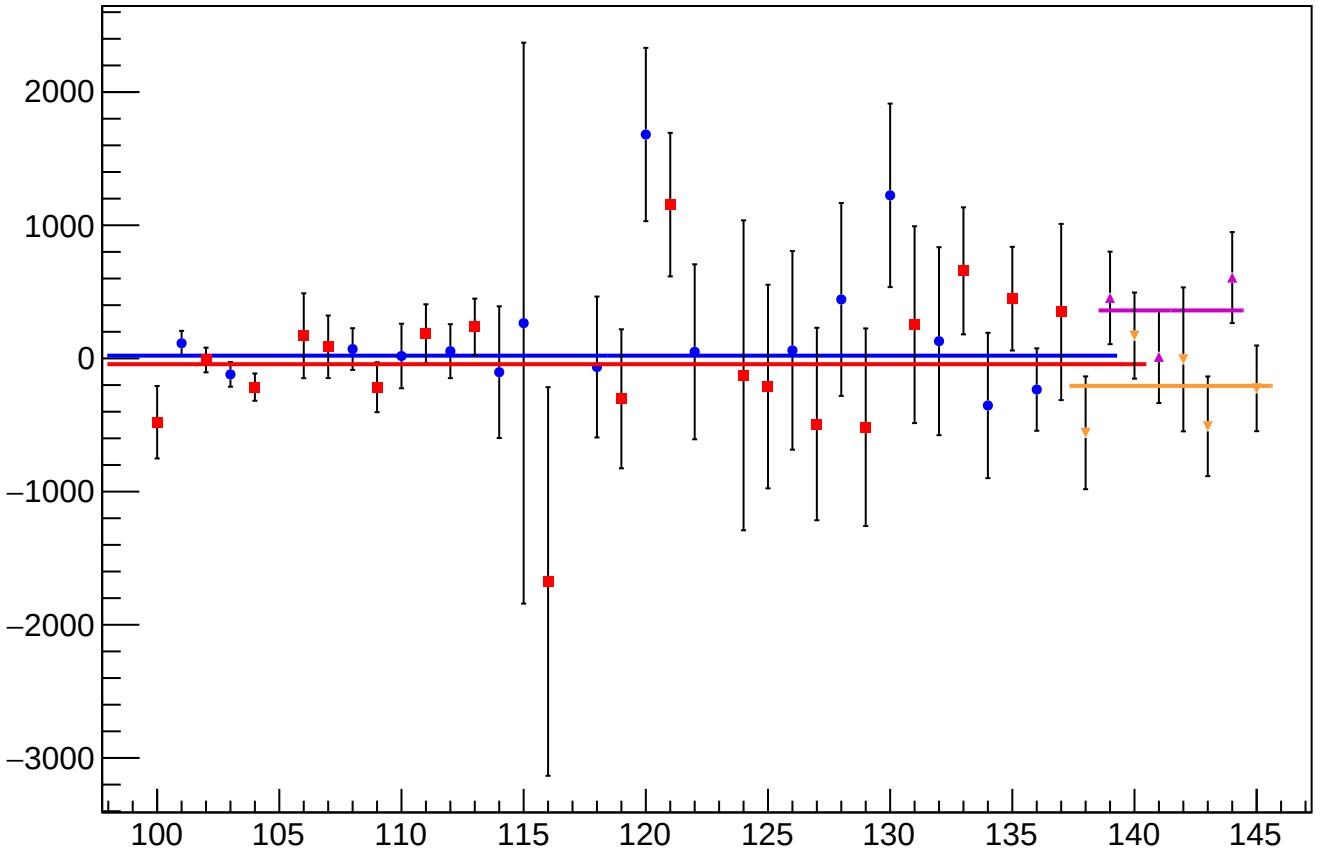
Left: 61.003+/-0.017 $\chi^2$/NDF: 62762.1/7

Right: 58.496+/-0.011 $\chi^2$/NDF: 638320.1/34

In: 59.675+/-0.014 $\chi^2$/NDF:290492.2/18

Out: 58.832+/-0.013 $\chi^2$/NDF:423558.3/23

All: 59.224+/-0.009 $\chi^2$/NDF: 716102.3/42




Right In: 20.840+/-53.585 $\chi^2$/NDF: 14.6/15

Left Out: -206.454+/-168.195 $\chi^2$/NDF:2.9/4

Right Out: -43.262+/-53.210 $\chi^2$/NDF: 21.5/18

Left In: 360.460+/-199.371 $\chi^2$/NDF:1.6/2

Left: 29.264+/-128.558 $\chi^2$/NDF: 9.2/7

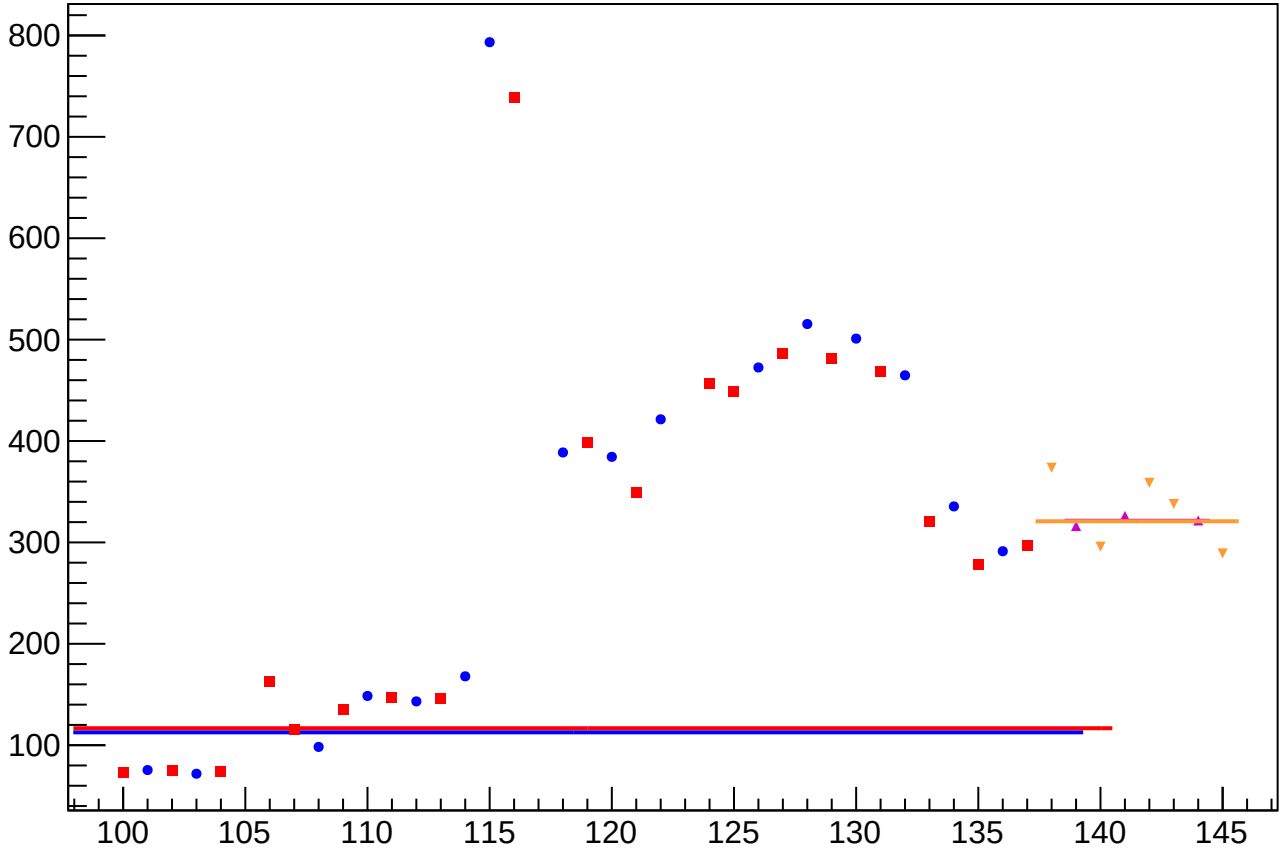
Right: -11.436+/-37.757 $\chi^2$/NDF: 36.9/34

In: 43.720+/-51.749 $\chi^2$/NDF:18.9/18

Out: -58.109+/-50.732 $\chi^2$/NDF:25.2/23

All: -8.204+/-36.227 $\chi^2$/NDF: 46.1/42

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: 320.849+/-0.119 $\chi^2$/NDF:76427.1/4

Right Out: 116.732+/-0.038 $\chi^2$/NDF: 5141390.3/18

Left In: 321.345+/-0.141 $\chi^2$/NDF:824.7/2

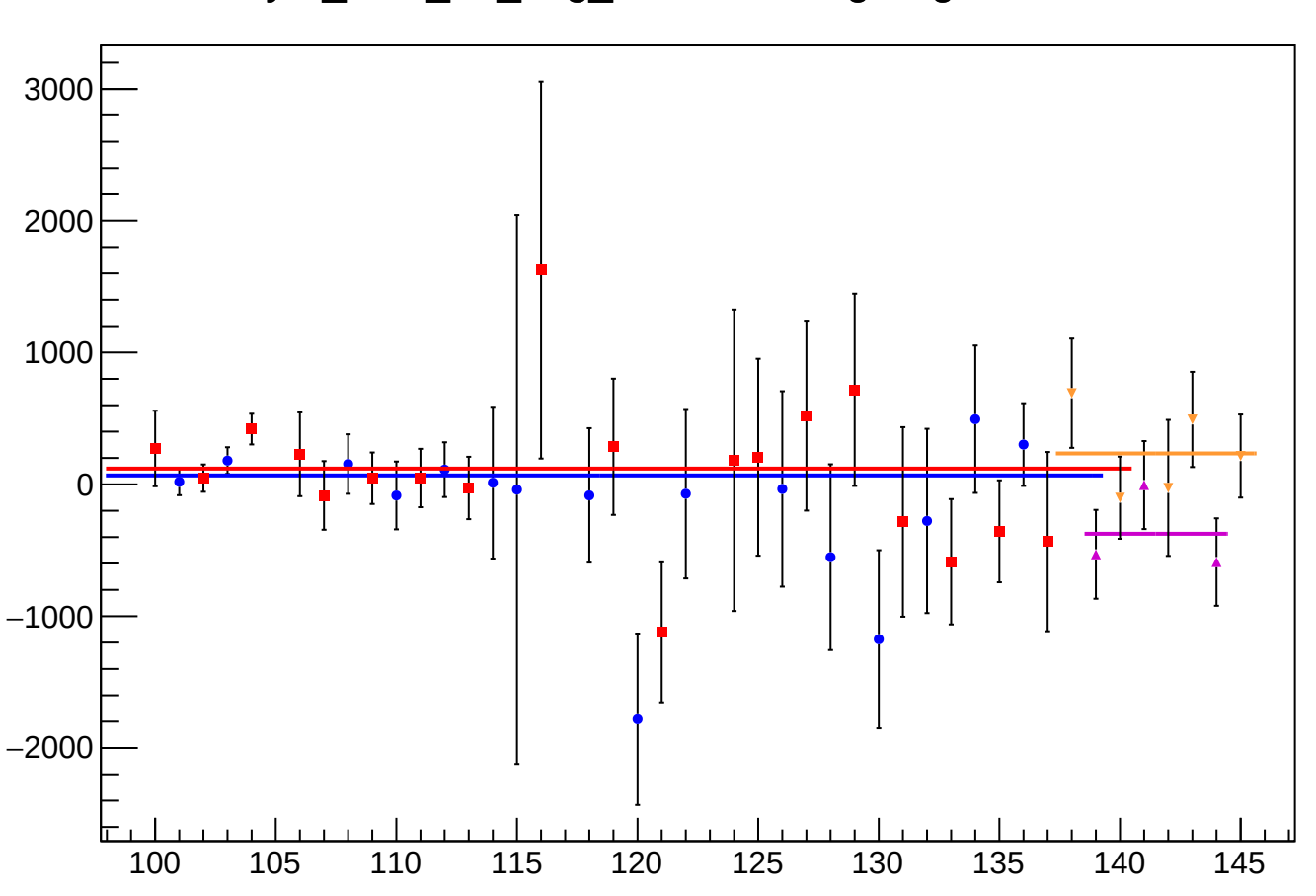
Left: 321.055+/-0.091 $\chi^2$/NDF: 77259.0/7

Right: 114.714+/-0.027 $\chi^2$/NDF: 10746837.6/34

In: 126.727+/-0.037 $\chi^2$/NDF:7643938.0/18

Out: 135.302+/-0.036 $\chi^2$/NDF:7895342.0/23

All: 131.100+/-0.026 $\chi^2$/NDF: 15567287.4/42




Right In: 67.621+/-59.169 $\chi^2$/NDF: 15.8/15

Left Out: 234.542+/-163.026 $\chi^2$/NDF:3.1/4

Right Out: 119.635+/-57.941 $\chi^2$/NDF: 21.1/18

Left In: -374.712+/-192.835 $\chi^2$/NDF:1.9/2

Left: -19.405+/-124.497 $\chi^2$/NDF: 10.8/7

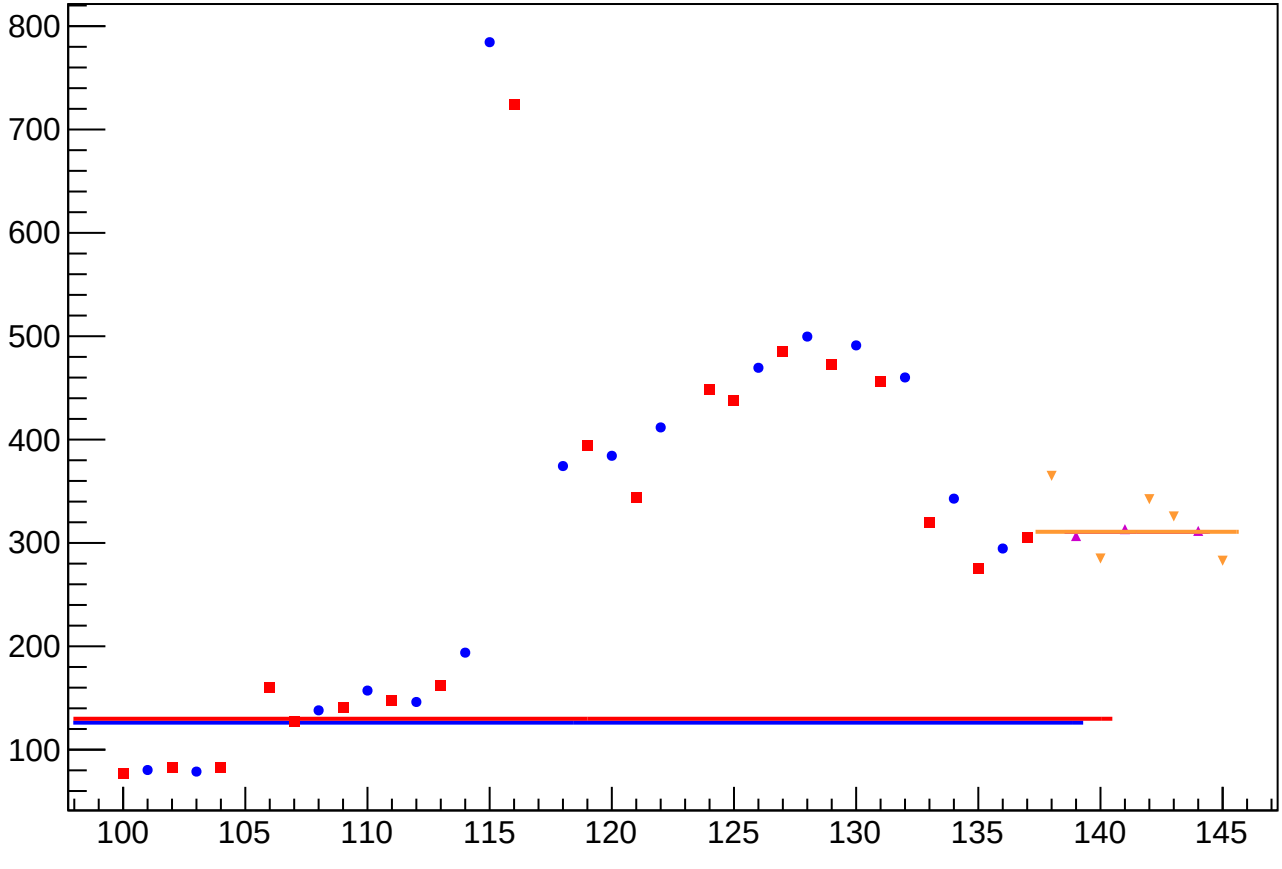
Right: 94.173+/-41.398 $\chi^2$/NDF: 37.3/34

In: 29.559+/-56.566 $\chi^2$/NDF:22.4/18

Out: 132.522+/-54.596 $\chi^2$/NDF:24.7/23

All: 82.865+/-39.283 $\chi^2$/NDF: 48.9/42

# asym_sam_15_avg_rms vs Slug, Sign Corrected




Right In: 126.154+/-0.042 $\chi^2$/NDF: 5220128.2/15

Left Out: 310.796+/-0.115 $\chi^2$/NDF:74508.9/4

Right Out: 129.914+/-0.041 $\chi^2$/NDF: 4647677.8/18

Left In: 310.614+/-0.136 $\chi^2$/NDF:427.8/2

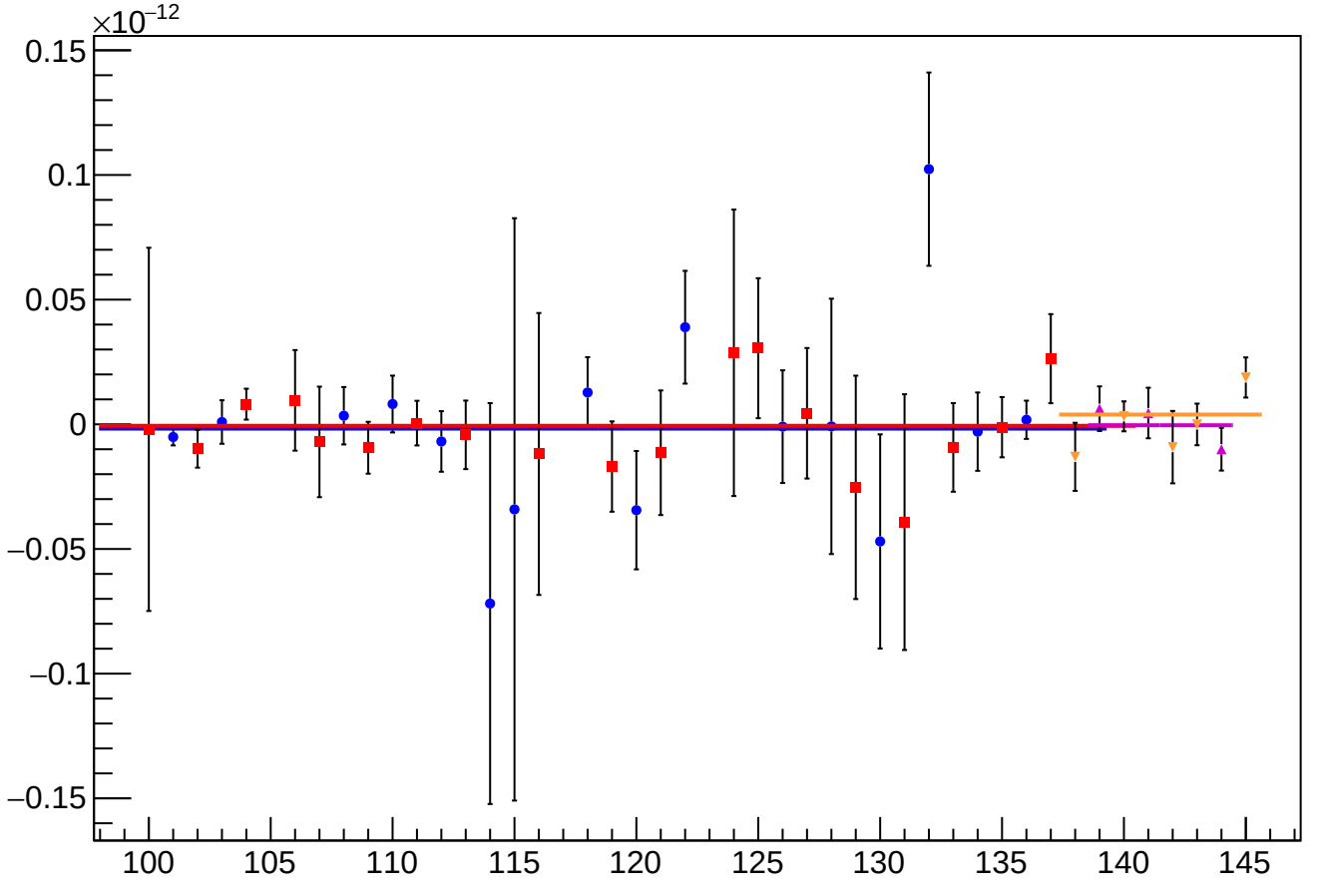
Left: 310.720+/-0.088 $\chi^2$/NDF: 74937.7/7

Right: 128.074+/-0.029 $\chi^2$/NDF: 9871930.1/34

In: 142.026+/-0.040 $\chi^2$/NDF:6893127.7/18

Out: 150.200+/-0.039 $\chi^2$/NDF:6908168.3/23

All: 146.258+/-0.028 $\chi^2$/NDF: 13822918.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 10.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.0/2

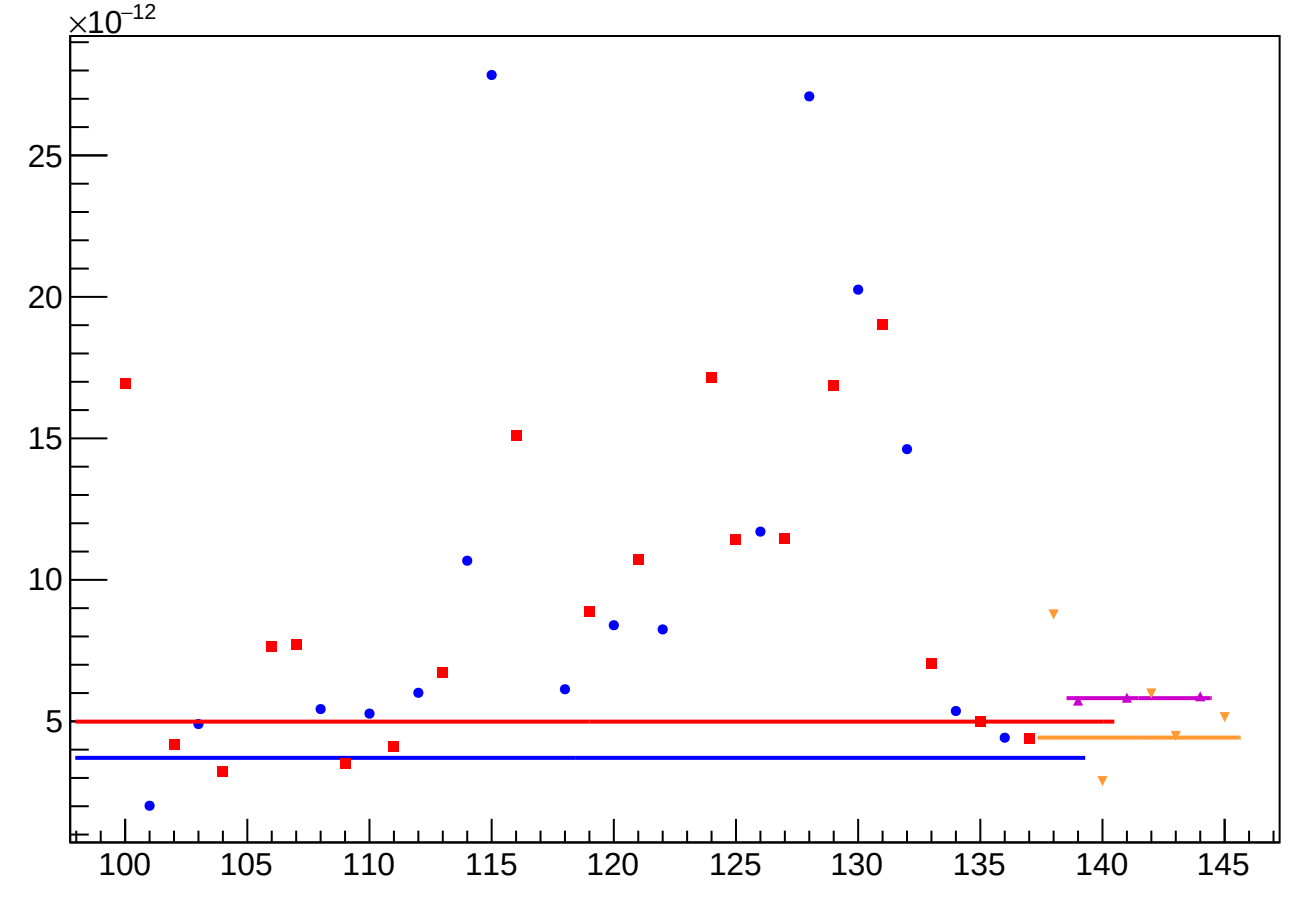
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.5/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:17.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 37.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2172466.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:374129.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1295374.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:302.6/2

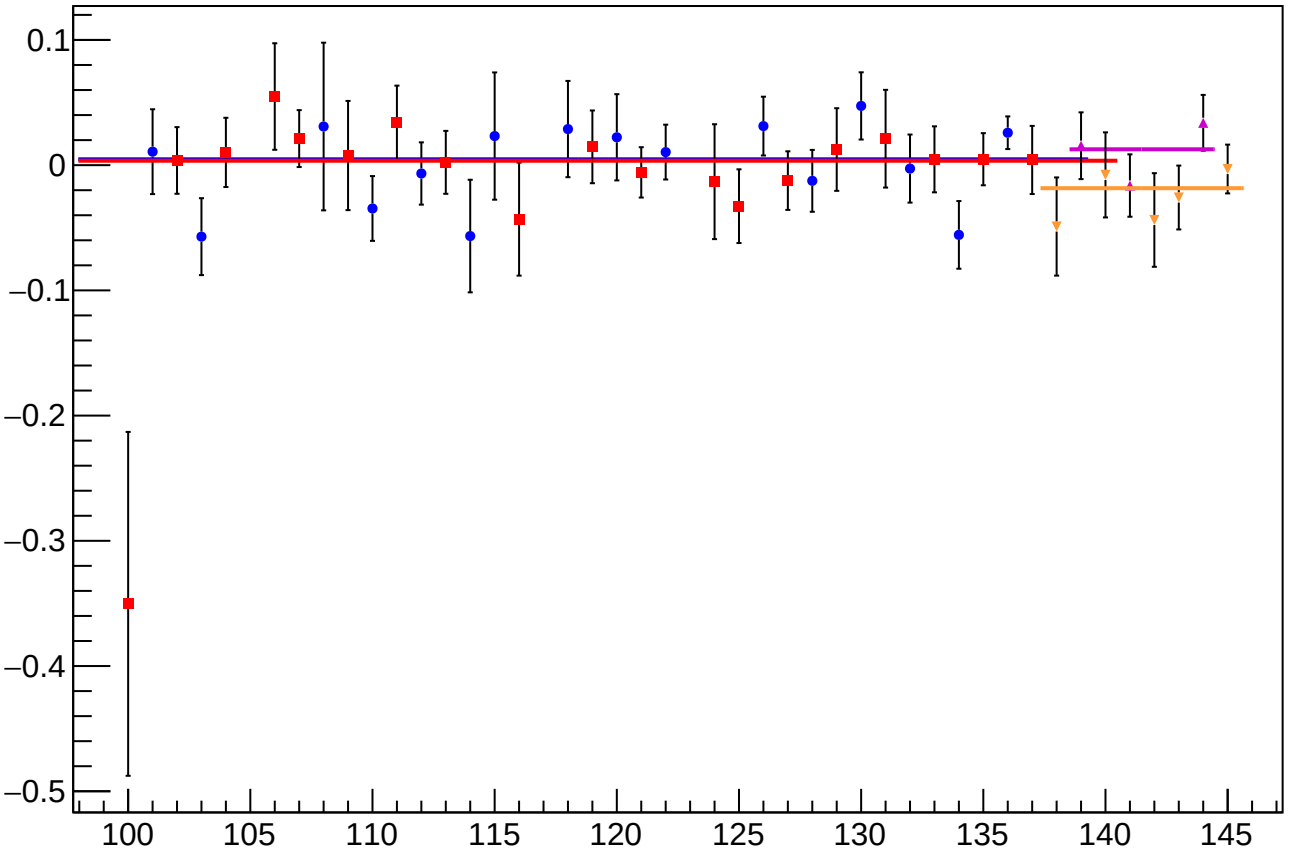
Left: 0.000+/-0.000 $\chi^2$/NDF: 465455.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3664320.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:2432248.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:1694905.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4203360.9/42




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.018+/-0.012 $\chi^2$/NDF:1.9/4

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.013+/-0.014 $\chi^2$/NDF:2.3/2

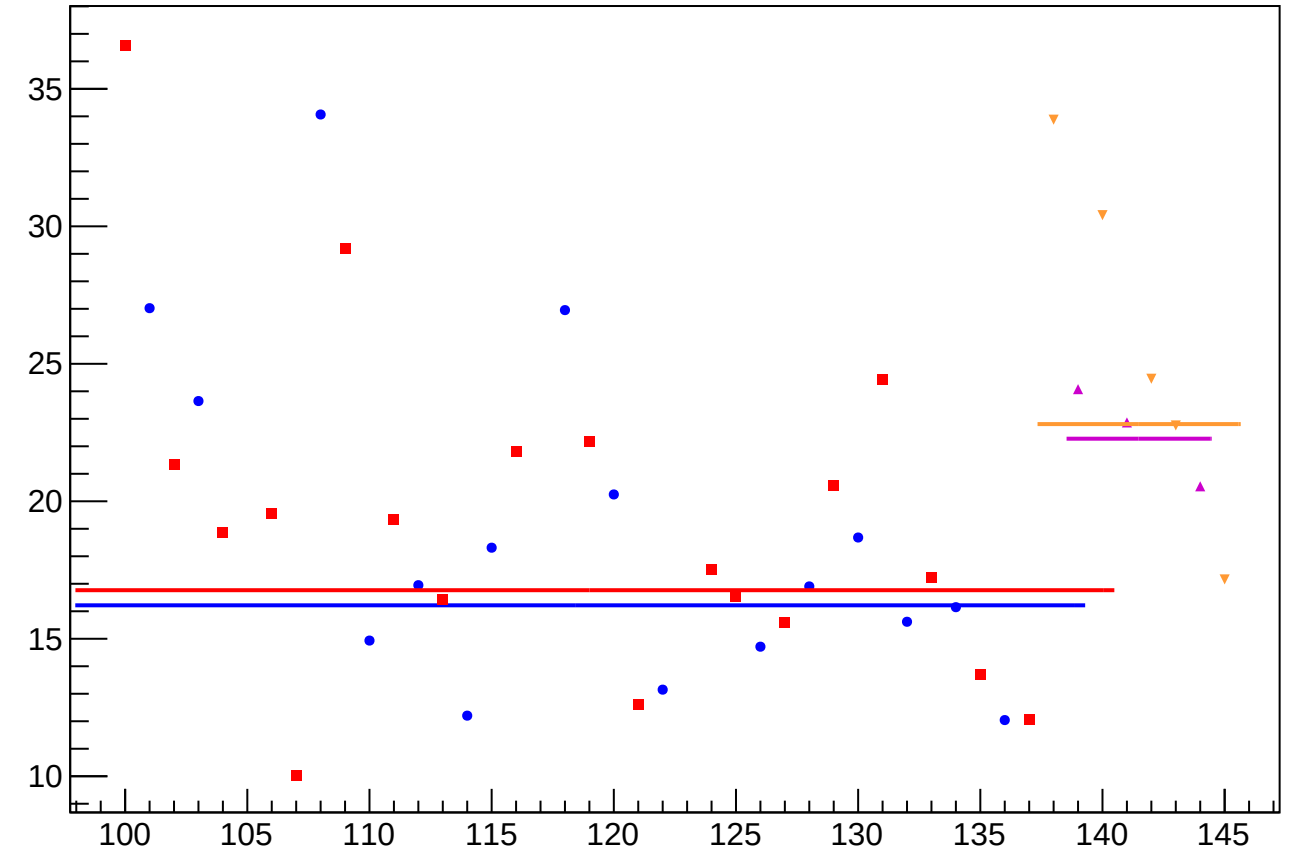
Left: -0.005+/-0.009 $\chi^2$/NDF: 6.9/7

Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.006+/-0.006 $\chi^2$/NDF:24.0/18

Out: -0.001+/-0.006 $\chi^2$/NDF:17.9/23

All: 0.002+/-0.004 $\chi^2$/NDF: 42.7/42




Right In: 16.217+/-0.005 $\chi^2$/NDF: 943864.9/15

Left Out: 22.808+/-0.009 $\chi^2$/NDF:431586.6/4

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866715.7/18

Left In: 22.276+/-0.010 $\chi^2$/NDF:22359.3/2

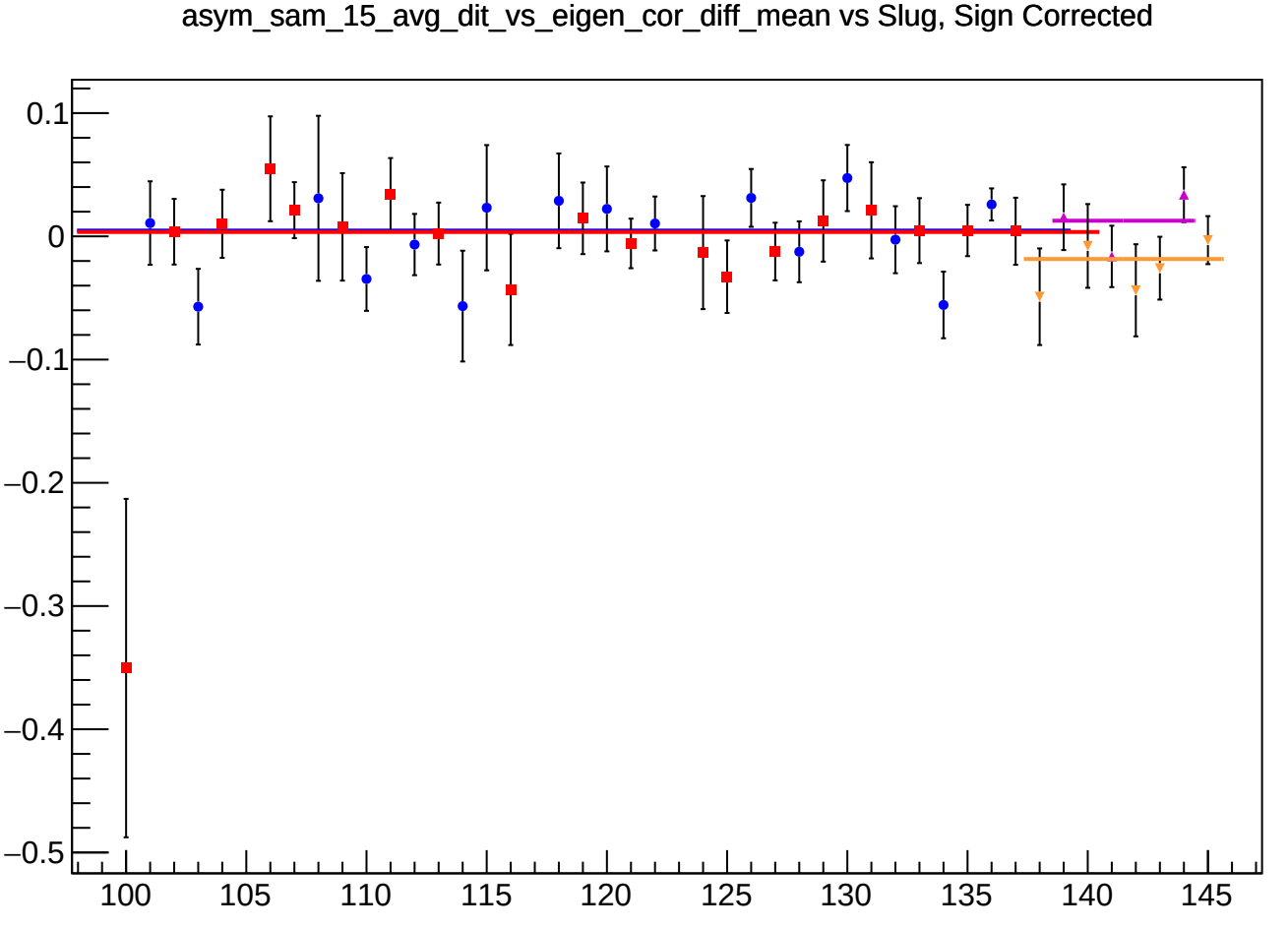
Left: 22.574+/-0.007 $\chi^2$/NDF: 455537.6/7

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817524.0/34

In: 17.297+/-0.004 $\chi^2$/NDF:1270062.9/18

Out: 18.092+/-0.004 $\chi^2$/NDF:1663234.0/23

All: 17.701+/-0.003 $\chi^2$/NDF: 2951448.3/42




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.018+/-0.012 $\chi^2$/NDF:1.9/4

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.013+/-0.014 $\chi^2$/NDF:2.3/2

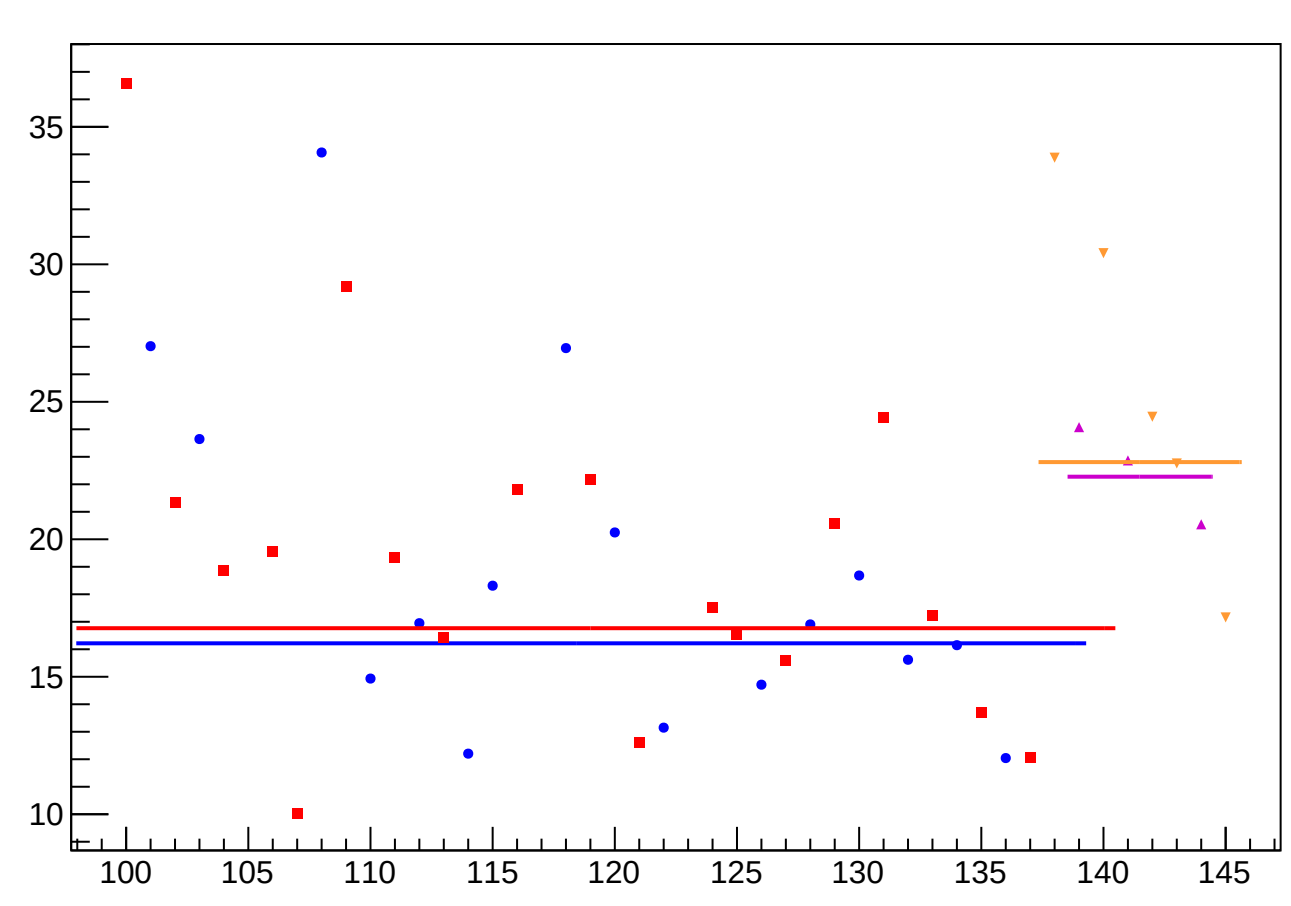
Left: -0.005+/-0.009 $\chi^2$/NDF: 6.9/7

Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.006+/-0.006 $\chi^2$/NDF:24.0/18

Out: -0.001+/-0.006 $\chi^2$/NDF:17.9/23

All: 0.002+/-0.004 $\chi^2$/NDF: 42.7/42




Right In: 16.217+/-0.005 $\chi^2$/NDF: 943864.9/15

Left Out: 22.808+/-0.009 $\chi^2$/NDF:431586.6/4

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866715.7/18

Left In: 22.276+/-0.010 $\chi^2$/NDF:22359.3/2

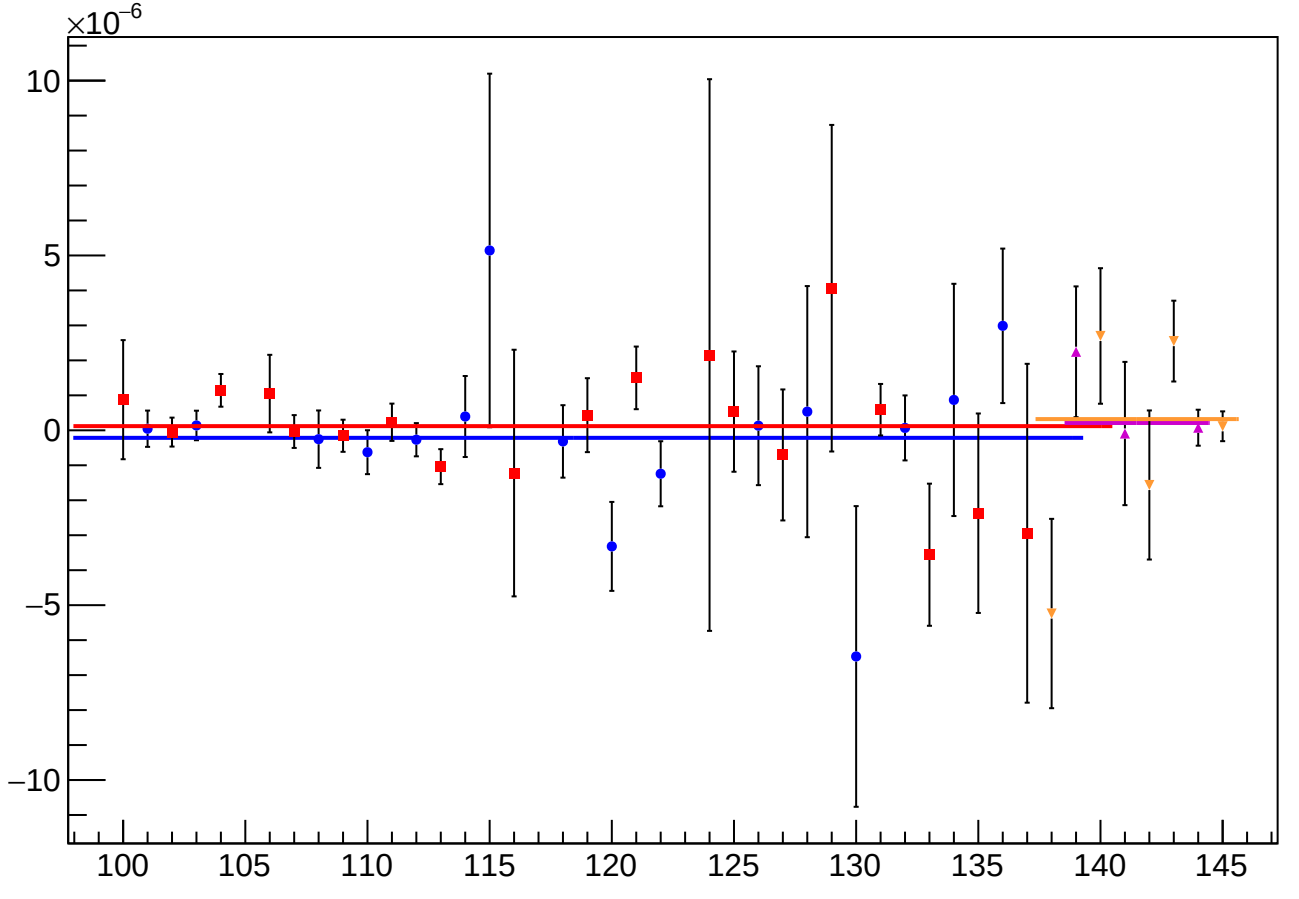
Left: 22.574+/-0.007 $\chi^2$/NDF: 455537.6/7

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817524.0/34

In: 17.297+/-0.004 $\chi^2$/NDF:1270062.9/18

Out: 18.092+/-0.004 $\chi^2$/NDF:1663234.0/23

All: 17.701+/-0.003 $\chi^2$/NDF: 2951448.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.3/2

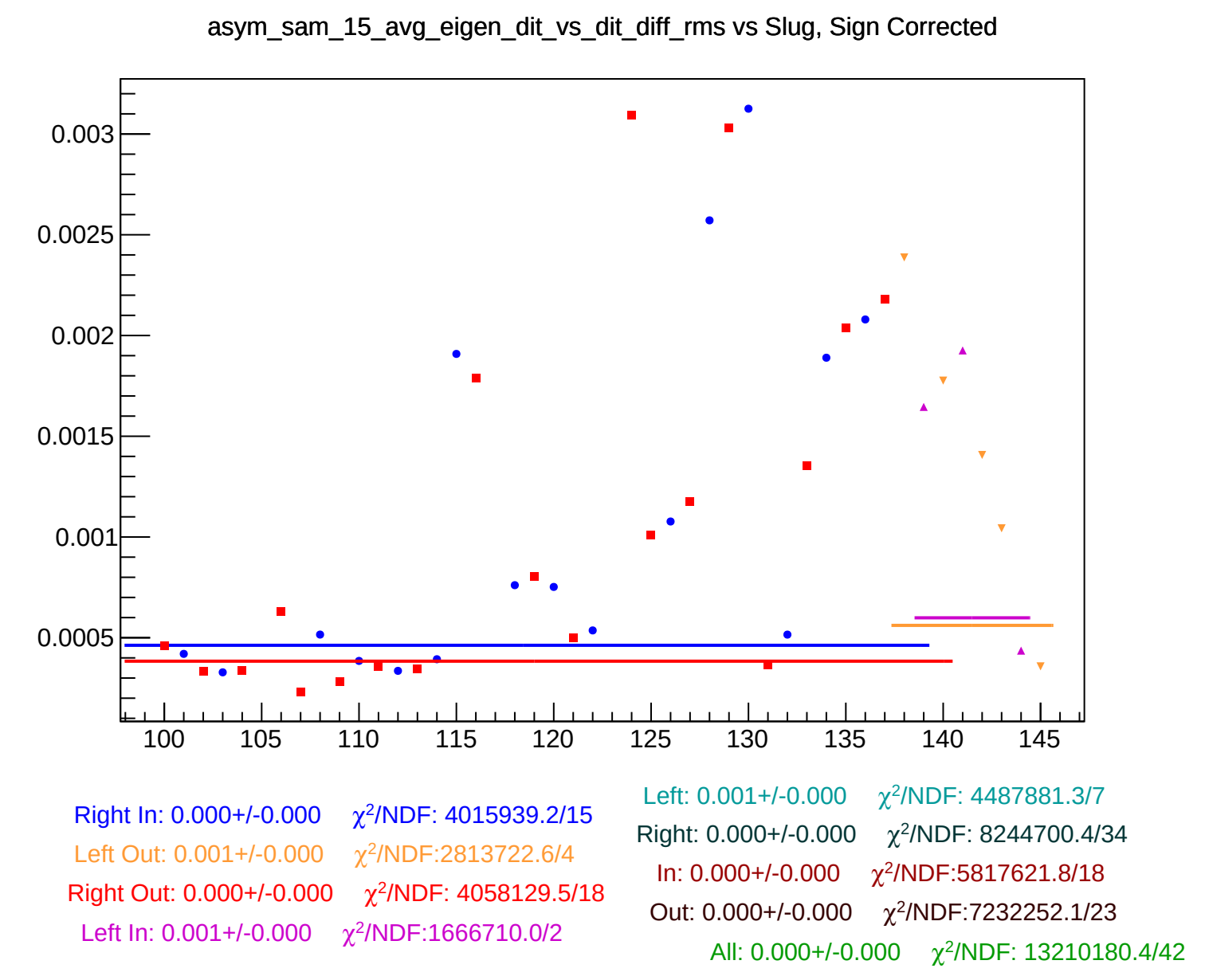
Left: 0.000+/-0.000 $\chi^2$/NDF: 11.8/7

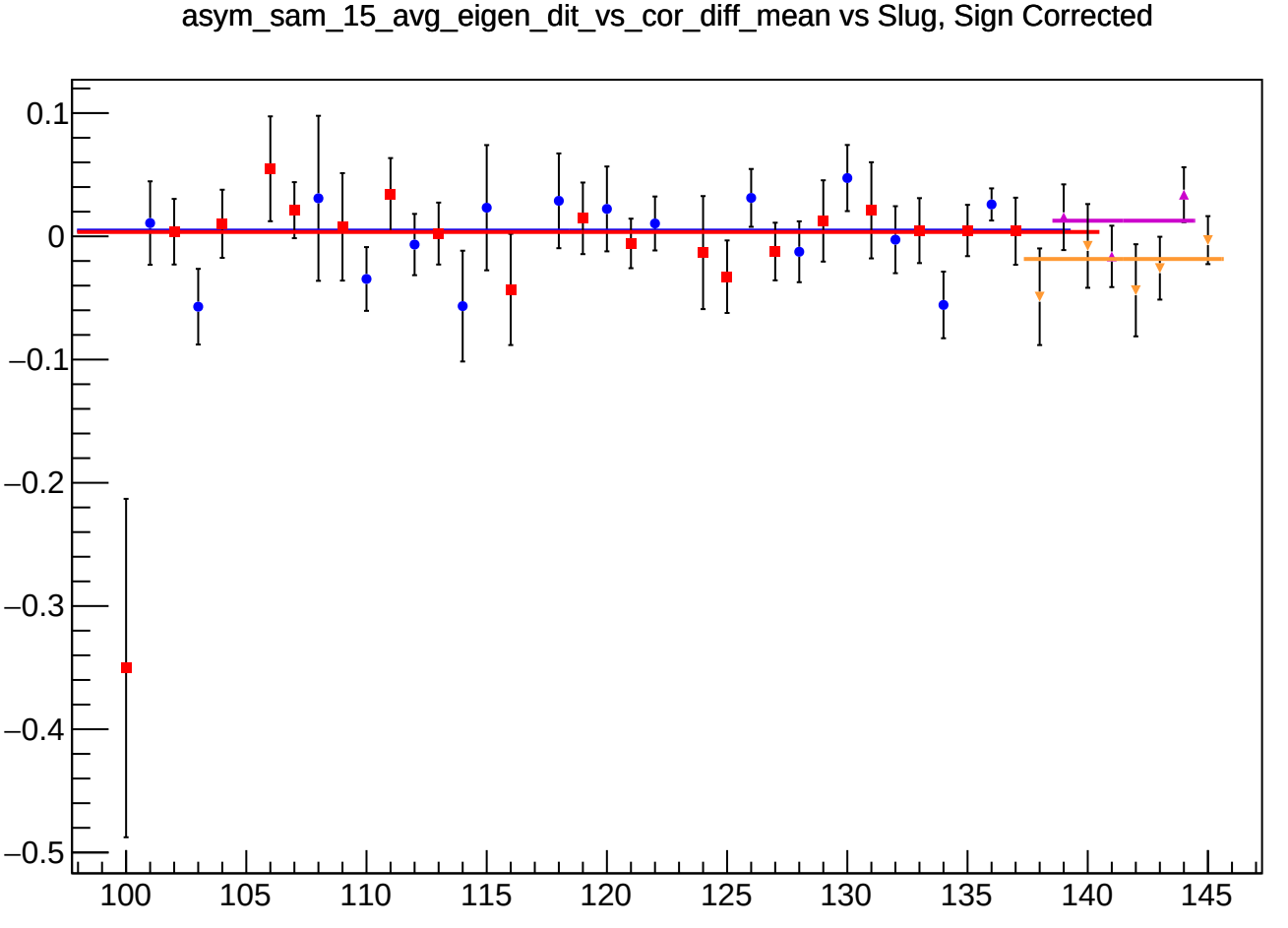
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:30.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 48.8/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 4015939.2/15
Left Out: 0.001+/-0.000 χ²/NDF:2813722.6/4
Right Out: 0.000+/-0.000 χ²/NDF: 4058129.5/18
Left In: 0.001+/-0.000 χ²/NDF:1666710.0/2
Left: 0.001+/-0.000 χ²/NDF: 4487881.3/7
Right: 0.000+/-0.000 χ²/NDF: 8244700.4/34
In: 0.000+/-0.000 χ²/NDF:5817621.8/18
Out: 0.000+/-0.000 χ²/NDF:7232252.1/23
All: 0.000+/-0.000 χ²/NDF: 13210180.4/42




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.018+/-0.012 $\chi^2$/NDF:1.9/4

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.013+/-0.014 $\chi^2$/NDF:2.3/2

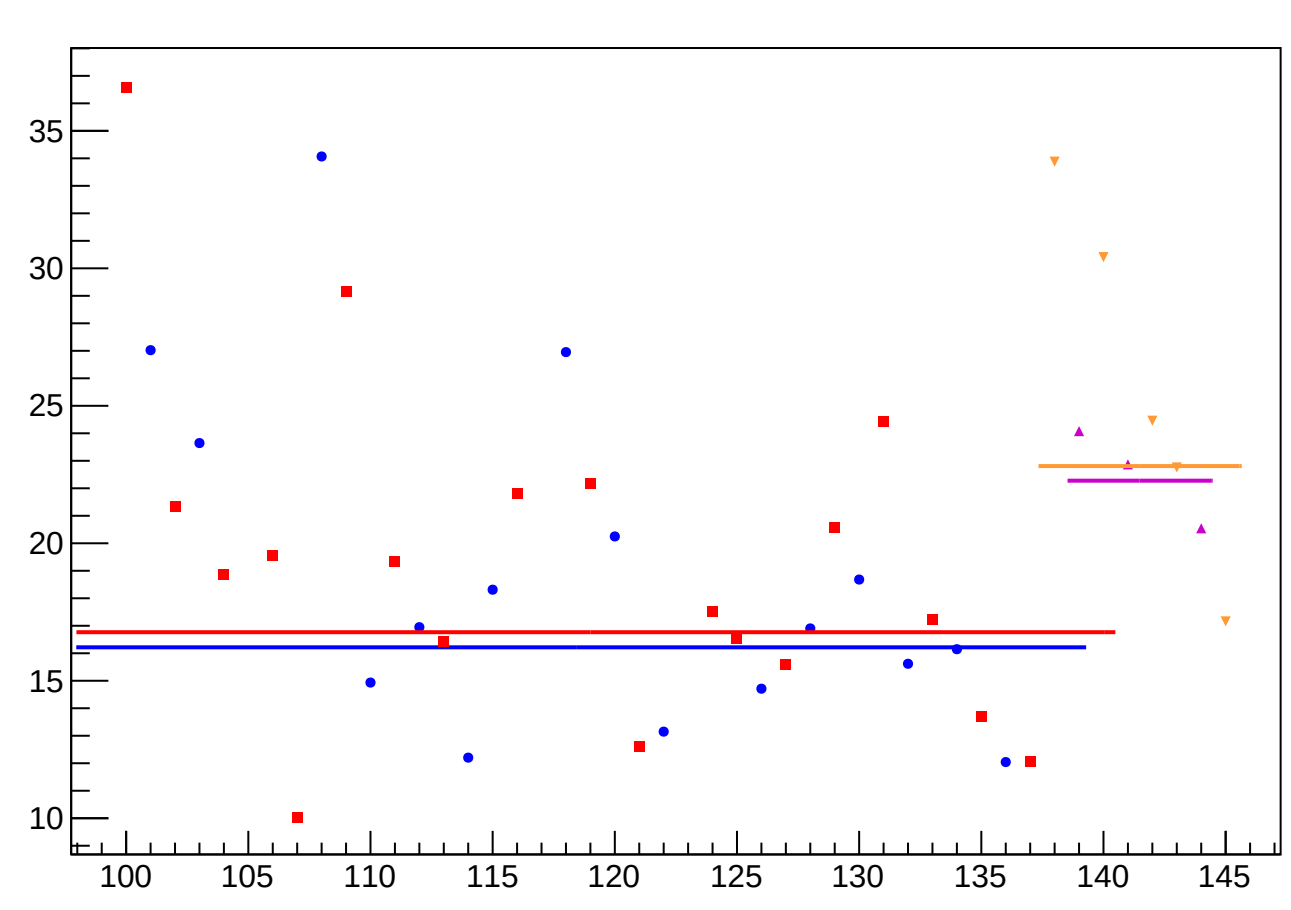
Left: -0.005+/-0.009 $\chi^2$/NDF: 6.9/7

Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.006+/-0.006 $\chi^2$/NDF:24.0/18

Out: -0.001+/-0.006 $\chi^2$/NDF:17.9/23

All: 0.002+/-0.004 $\chi^2$/NDF: 42.7/42




Right In: 16.216+/-0.005 $\chi^2$/NDF: 943830.6/15

Left Out: 22.808+/-0.009 $\chi^2$/NDF:431623.4/4

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866705.3/18

Left In: 22.277+/-0.010 $\chi^2$/NDF:22371.3/2

Left: 22.574+/-0.007 $\chi^2$/NDF: 455583.4/7

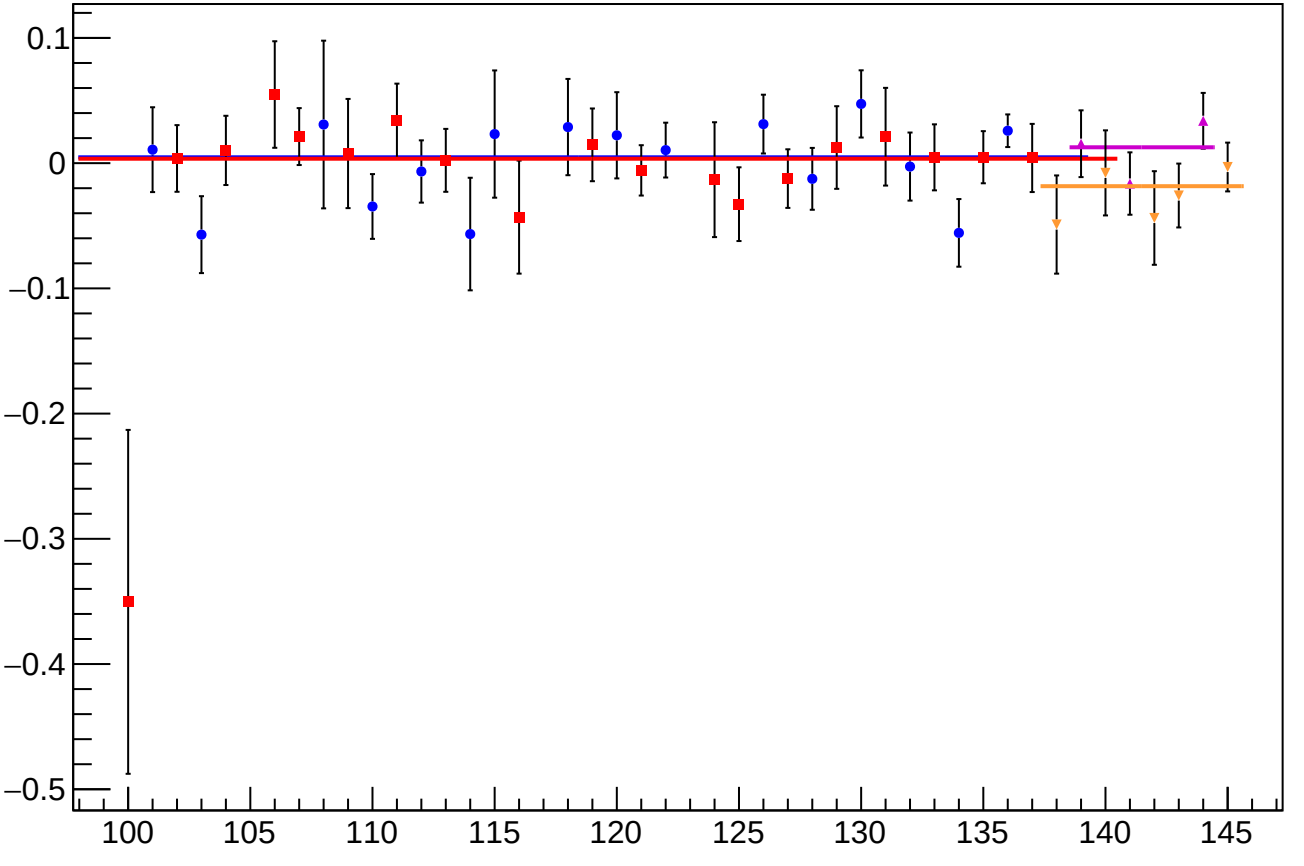
Right: 16.489+/-0.003 $\chi^2$/NDF: 1817478.6/34

In: 17.297+/-0.004 $\chi^2$/NDF:1270110.2/18

Out: 18.092+/-0.004 $\chi^2$/NDF:1663305.9/23

All: 17.701+/-0.003 $\chi^2$/NDF: 2951564.7/42

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.007 $\chi^2$/NDF: 21.5/15

Left Out: -0.018+/-0.012 $\chi^2$/NDF:1.9/4

Right Out: 0.004+/-0.007 $\chi^2$/NDF: 13.6/18

Left In: 0.013+/-0.014 $\chi^2$/NDF:2.3/2

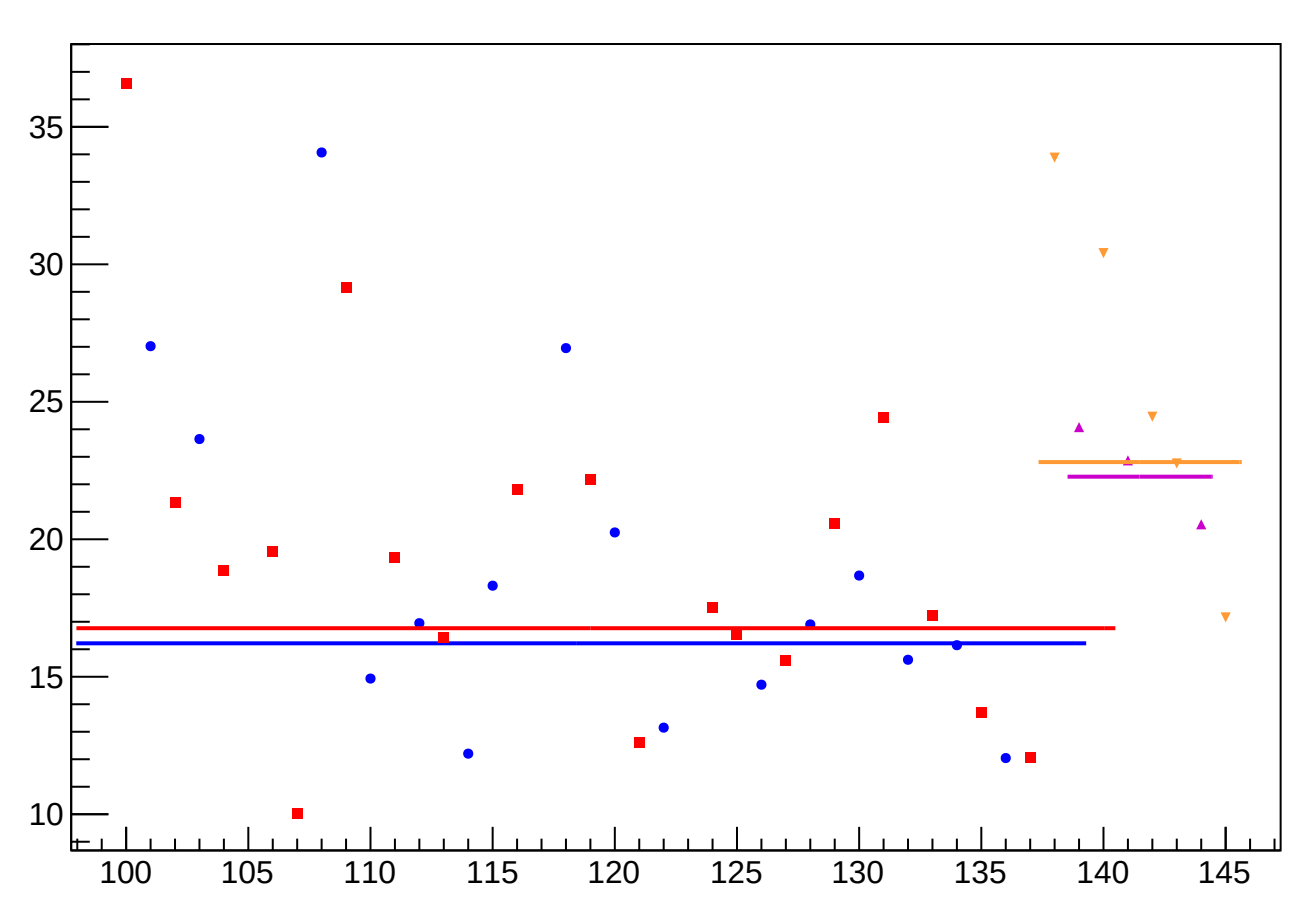
Left: -0.005+/-0.009 $\chi^2$/NDF: 6.9/7

Right: 0.004+/-0.005 $\chi^2$/NDF: 35.1/34

In: 0.006+/-0.006 $\chi^2$/NDF:24.0/18

Out: -0.001+/-0.006 $\chi^2$/NDF:17.9/23

All: 0.002+/-0.004 $\chi^2$/NDF: 42.7/42




Right In: 16.216+/-0.005 $\chi^2$/NDF: 943830.6/15

Left Out: 22.808+/-0.009 $\chi^2$/NDF:431623.4/4

Right Out: 16.766+/-0.005 $\chi^2$/NDF: 866705.3/18

Left In: 22.277+/-0.010 $\chi^2$/NDF:22371.3/2

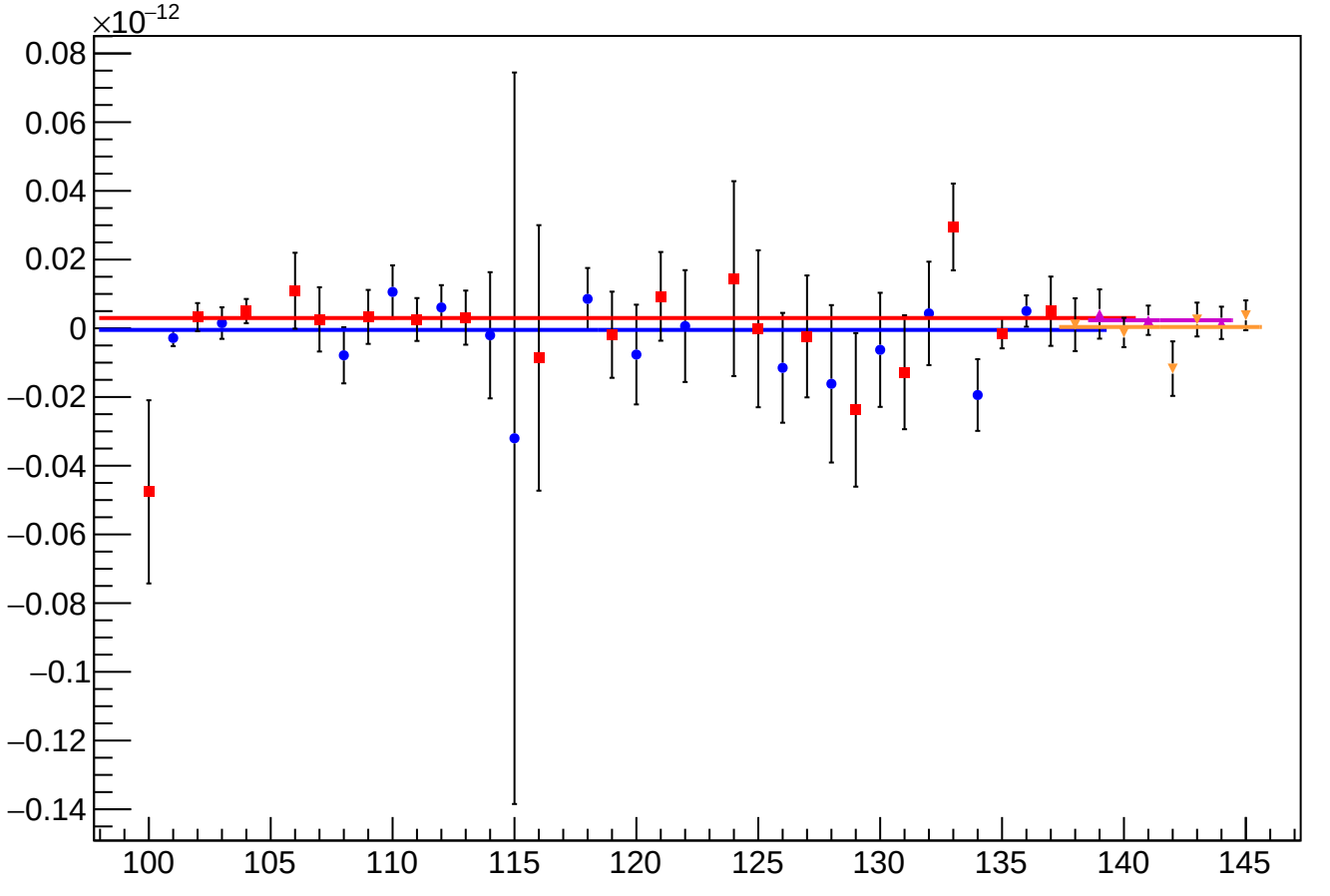
Left: 22.574+/-0.007 $\chi^2$/NDF: 455583.4/7

Right: 16.489+/-0.003 $\chi^2$/NDF: 1817478.6/34

In: 17.297+/-0.004 $\chi^2$/NDF:1270110.2/18

Out: 18.092+/-0.004 $\chi^2$/NDF:1663305.9/23

All: 17.701+/-0.003 $\chi^2$/NDF: 2951564.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.1/2

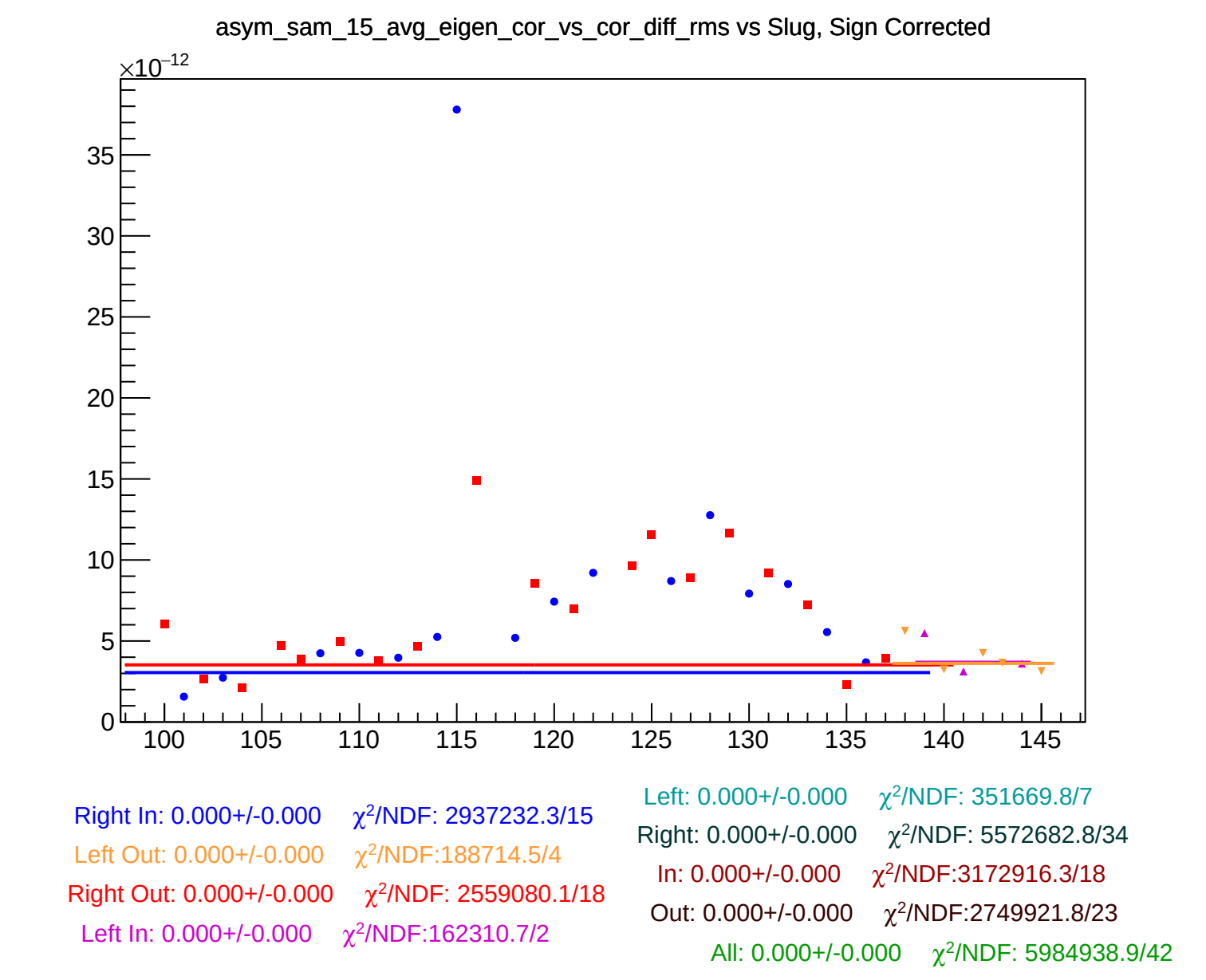
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.7/7

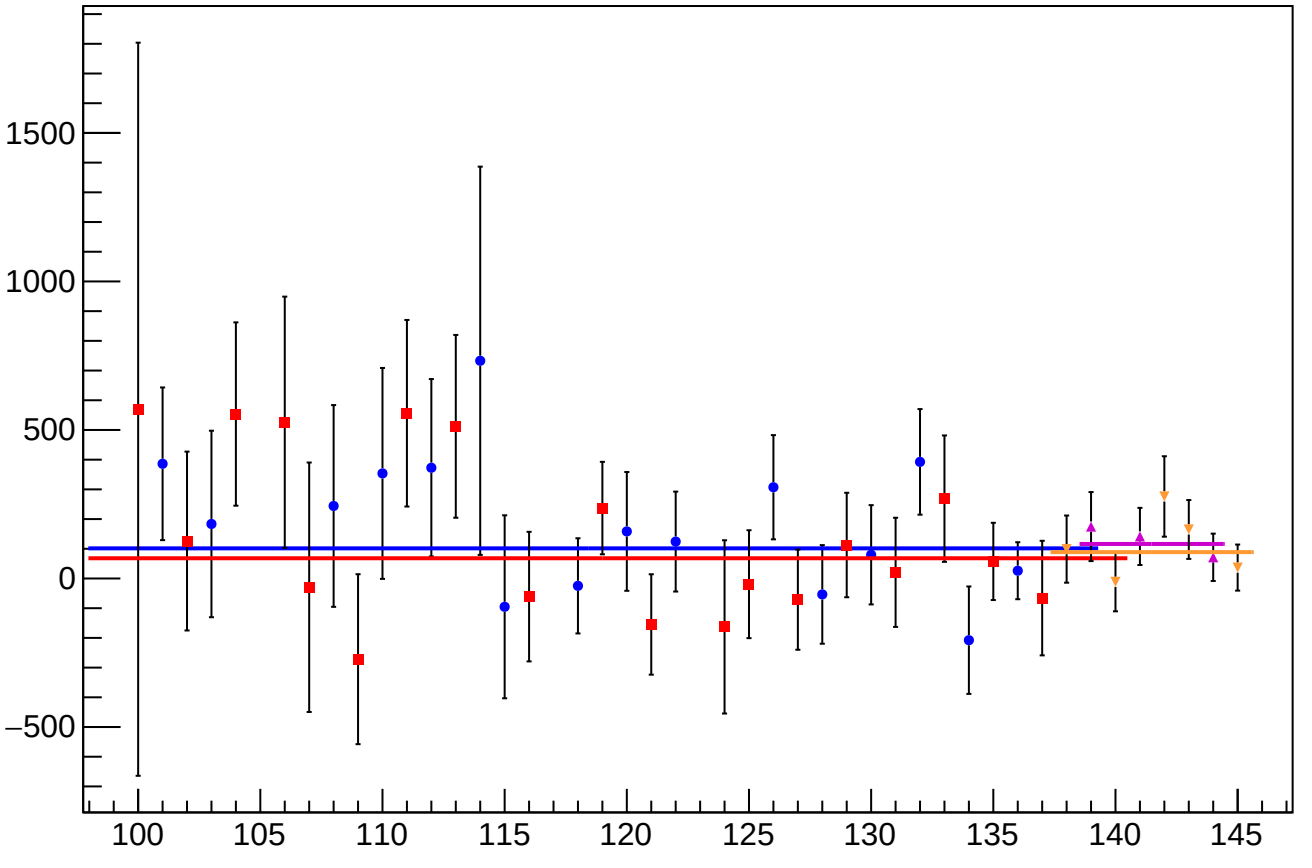
Right: 0.000+/-0.000 $\chi^2$/NDF: 27.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:13.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:17.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 31.0/42


asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
35
30
25
20
15
10
5
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2937232.3/15
Left Out: 0.000+/-0.000 χ²/NDF:188714.5/4
Right Out: 0.000+/-0.000 χ²/NDF: 2559080.1/18
Left In: 0.000+/-0.000 χ²/NDF:162310.7/2
Left: 0.000+/-0.000 χ²/NDF: 351669.8/7
Right: 0.000+/-0.000 χ²/NDF: 5572682.8/34
In: 0.000+/-0.000 χ²/NDF:3172916.3/18
Out: 0.000+/-0.000 χ²/NDF:2749921.8/23
All: 0.000+/-0.000 χ²/NDF: 5984938.9/42




Right In: 101.460+/-47.631 $\chi^2$/NDF: 13.4/15

Left Out: 88.758+/-44.612 $\chi^2$/NDF:4.0/4

Right Out: 68.108+/-49.327 $\chi^2$/NDF: 16.1/18

Left In: 116.240+/-54.258 $\chi^2$/NDF:0.6/2

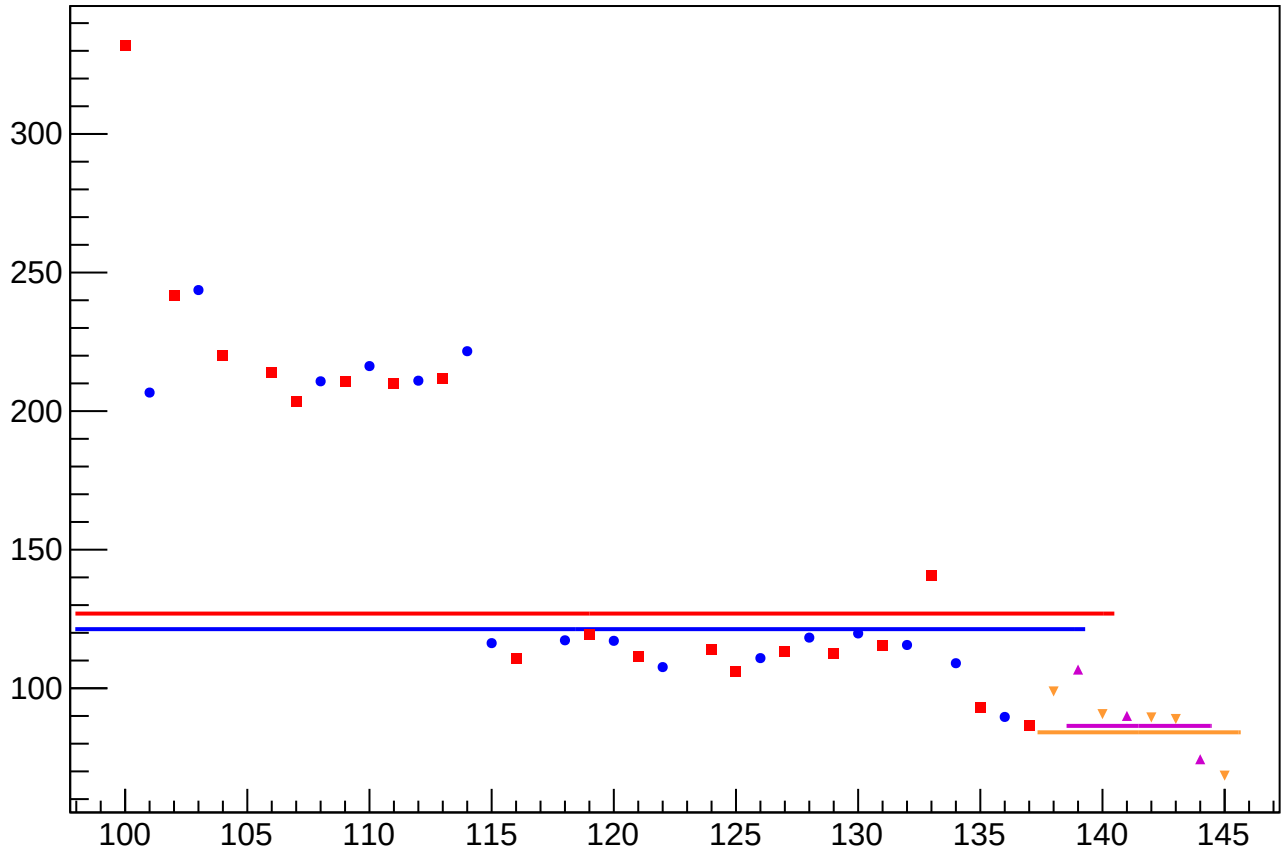
Left: 99.843+/-34.459 $\chi^2$/NDF: 4.8/7

Right: 85.367+/-34.264 $\chi^2$/NDF: 29.7/34

In: 107.893+/-35.795 $\chi^2$/NDF:14.0/18

Out: 79.467+/-33.087 $\chi^2$/NDF:20.2/23

All: 92.564+/-24.297 $\chi^2$/NDF: 34.6/42




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286651.5/15

Left Out: 84.100+/-0.032 $\chi^2$/NDF:131902.0/4

Right Out: 126.945+/-0.035 $\chi^2$/NDF: 1471592.1/18

Left In: 86.422+/-0.038 $\chi^2$/NDF:109590.1/2

Left: 85.037+/-0.024 $\chi^2$/NDF: 243676.3/7

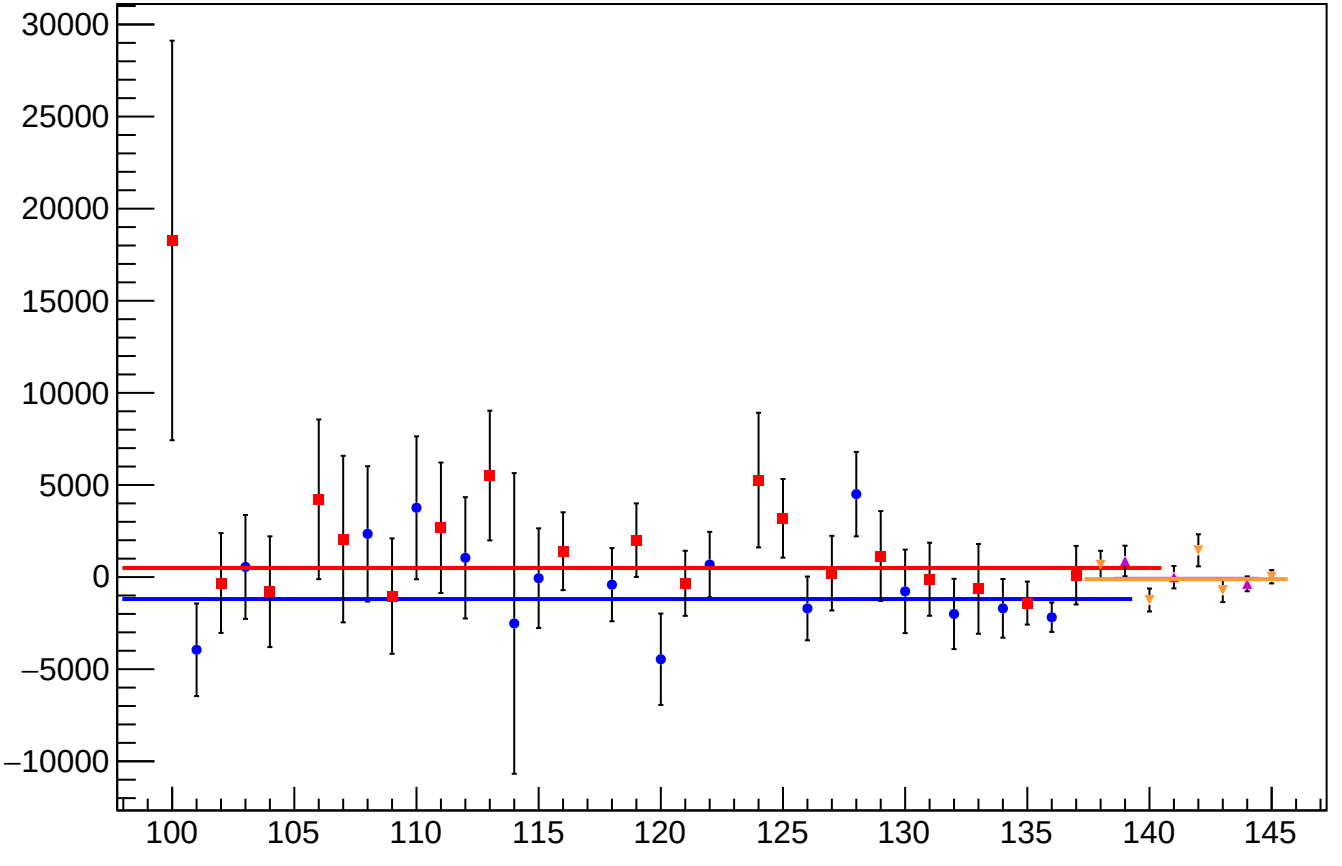
Right: 124.037+/-0.024 $\chi^2$/NDF: 2771675.2/34

In: 106.134+/-0.025 $\chi^2$/NDF:1863683.0/18

Out: 103.377+/-0.023 $\chi^2$/NDF:2433472.3/23

All: 104.647+/-0.017 $\chi^2$/NDF: 4303553.7/42

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: -111.034+/-252.880 $\chi^2$/NDF:8.6/4

Right Out: 494.627+/-521.756 $\chi^2$/NDF: 13.9/18

Left In: -95.320+/-311.816 $\chi^2$/NDF:1.8/2

Left: -104.799+/-196.408 $\chi^2$/NDF: 10.4/7

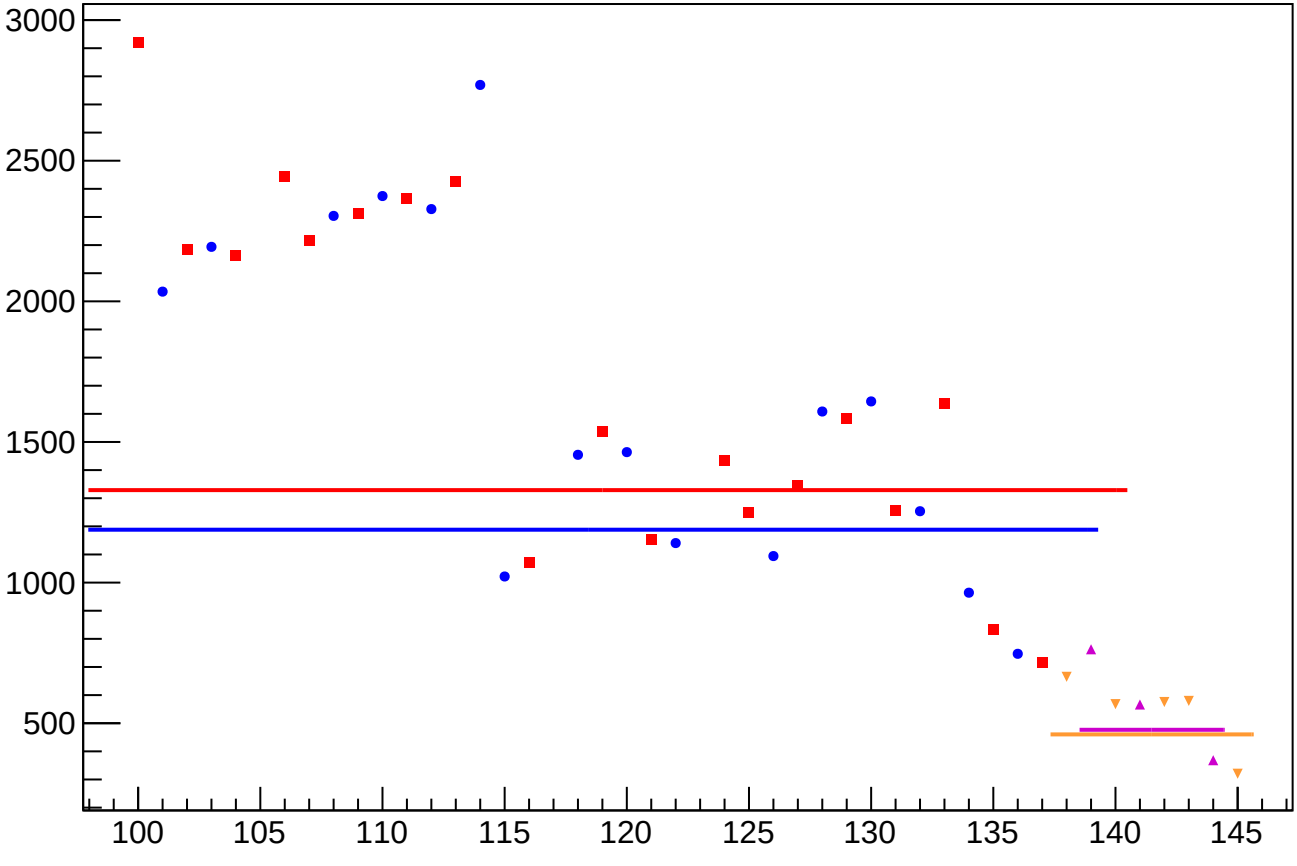
Right: -420.866+/-352.816 $\chi^2$/NDF: 35.5/34

In: -421.871+/-261.309 $\chi^2$/NDF:21.4/18

Out: 4.176+/-227.561 $\chi^2$/NDF:23.5/23

All: -179.576+/-171.609 $\chi^2$/NDF: 46.5/42

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: 460.302+/-0.179 $\chi^2$/NDF:604391.1/4

Right Out: 1328.816+/-0.369 $\chi^2$/NDF: 1957758.3/18

Left In: 476.685+/-0.220 $\chi^2$/NDF:424797.8/2

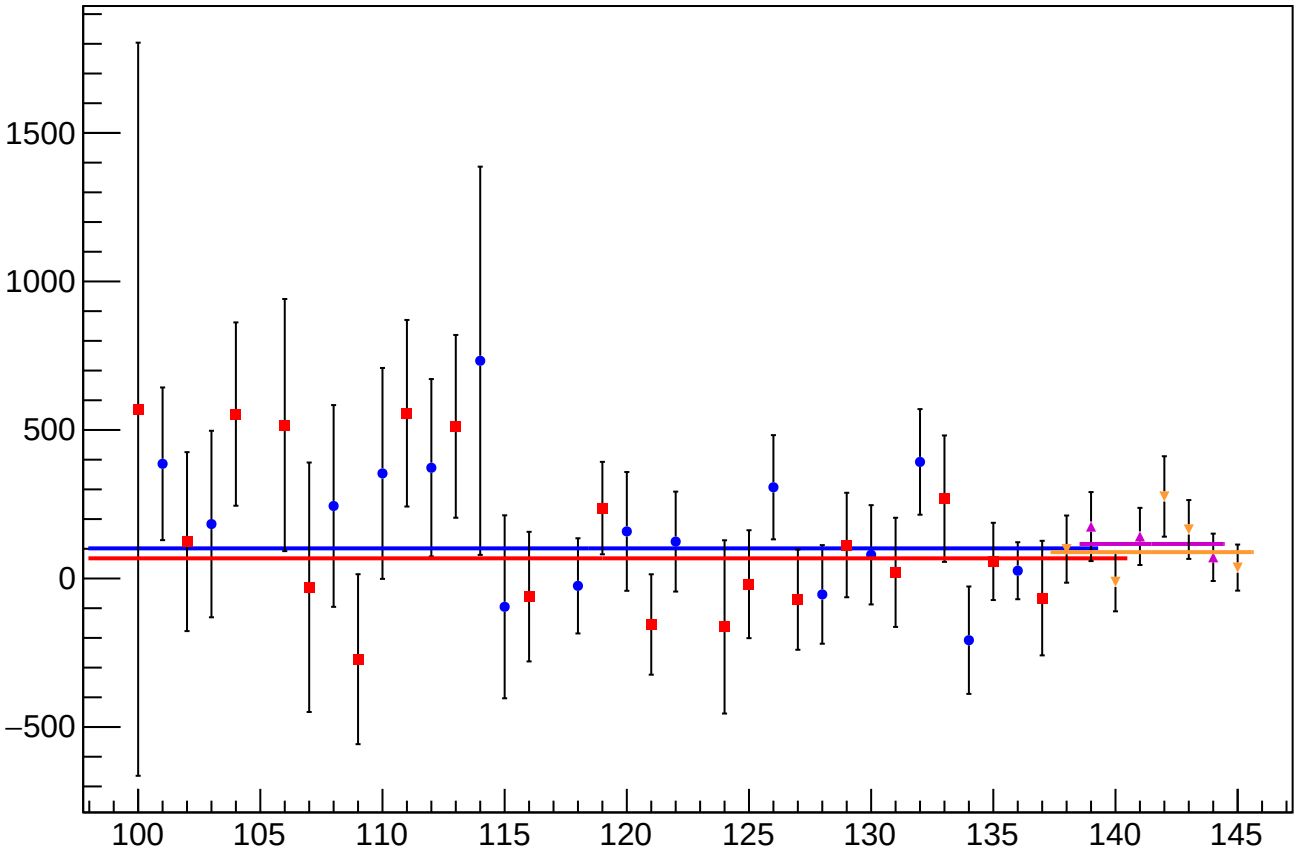
Left: 466.802+/-0.139 $\chi^2$/NDF: 1032519.8/7

Right: 1252.427+/-0.249 $\chi^2$/NDF: 4081382.8/34

In: 688.477+/-0.185 $\chi^2$/NDF:5568608.5/18

Out: 625.512+/-0.161 $\chi^2$/NDF:7049771.0/23

All: 652.668+/-0.121 $\chi^2$/NDF: 12684419.1/42




Right In: 101.446+/-47.631 $\chi^2$/NDF: 13.3/15

Left Out: 88.759+/-44.612 $\chi^2$/NDF:4.0/4

Right Out: 67.881+/-49.331 $\chi^2$/NDF: 16.1/18

Left In: 116.248+/-54.258 $\chi^2$/NDF:0.6/2

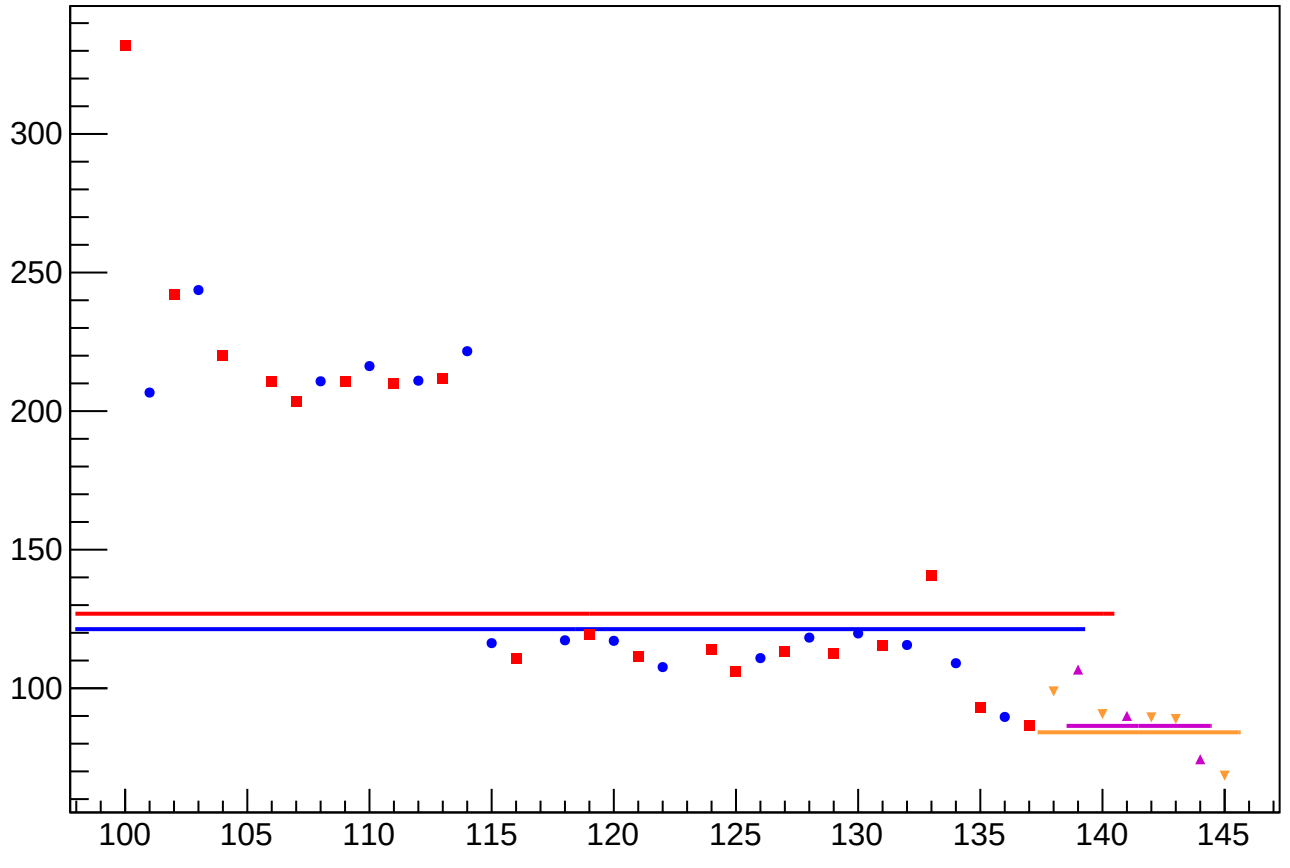
Left: 99.847+/-34.459 $\chi^2$/NDF: 4.8/7

Right: 85.252+/-34.265 $\chi^2$/NDF: 29.7/34

In: 107.889+/-35.795 $\chi^2$/NDF:14.0/18

Out: 79.367+/-33.088 $\chi^2$/NDF:20.2/23

All: 92.508+/-24.297 $\chi^2$/NDF: 34.5/42




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286654.0/15

Left Out: 84.100+/-0.032 $\chi^2$/NDF:131902.0/4

Right Out: 126.895+/-0.035 $\chi^2$/NDF: 1465478.6/18

Left In: 86.422+/-0.038 $\chi^2$/NDF:109590.1/2

Left: 85.037+/-0.024 $\chi^2$/NDF: 243676.3/7

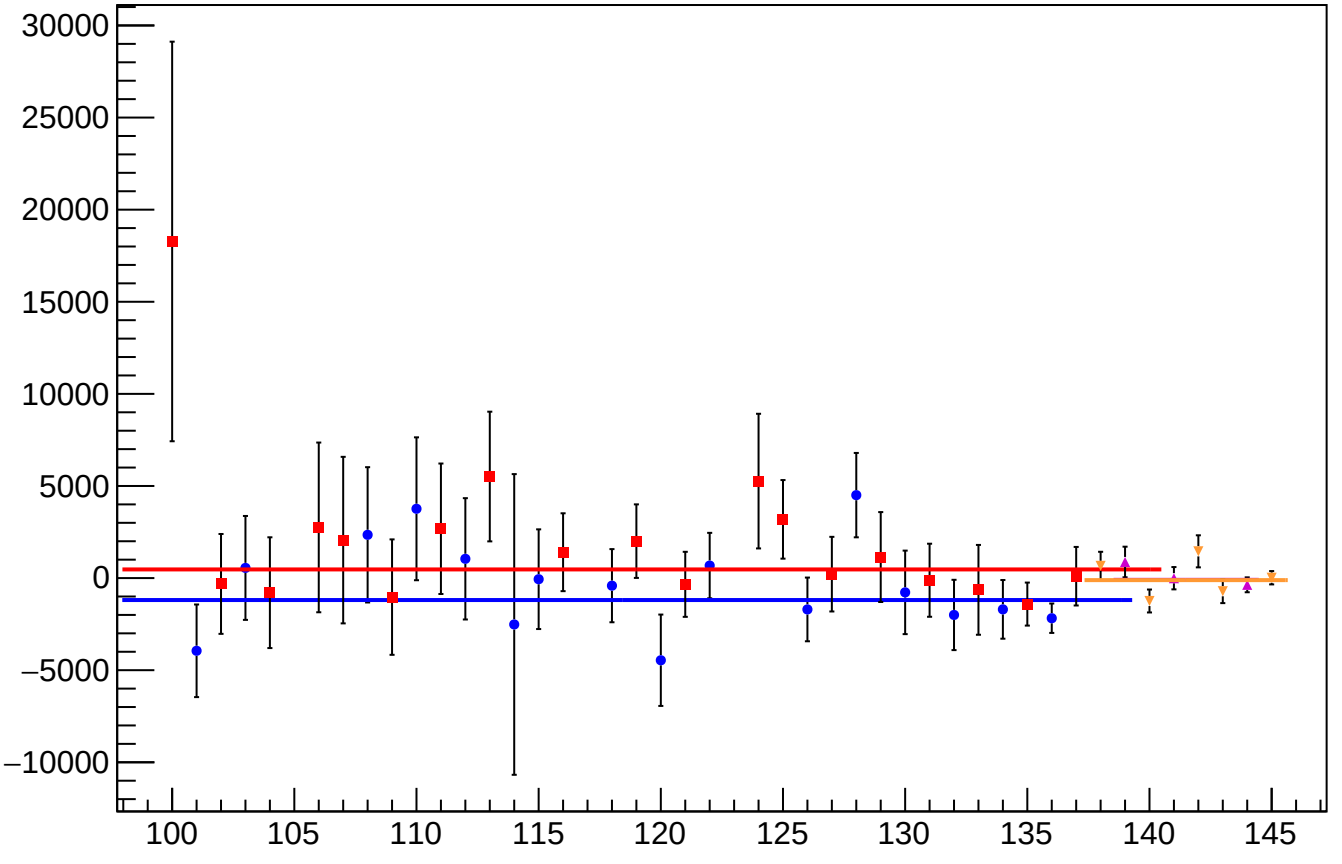
Right: 124.013+/-0.024 $\chi^2$/NDF: 2765325.4/34

In: 106.134+/-0.025 $\chi^2$/NDF:1863685.4/18

Out: 103.353+/-0.023 $\chi^2$/NDF:2425365.4/23

All: 104.635+/-0.017 $\chi^2$/NDF: 4295560.1/42

asym_sam_26_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -1192.145+/-478.909 $\chi^2$/NDF: 15.9/15

Left Out: -111.027+/-252.879 $\chi^2$/NDF:8.6/4

Right Out: 469.736+/-522.203 $\chi^2$/NDF: 13.4/18

Left In: -95.310+/-311.816 $\chi^2$/NDF:1.8/2

Left: -104.791+/-196.408 $\chi^2$/NDF: 10.4/7

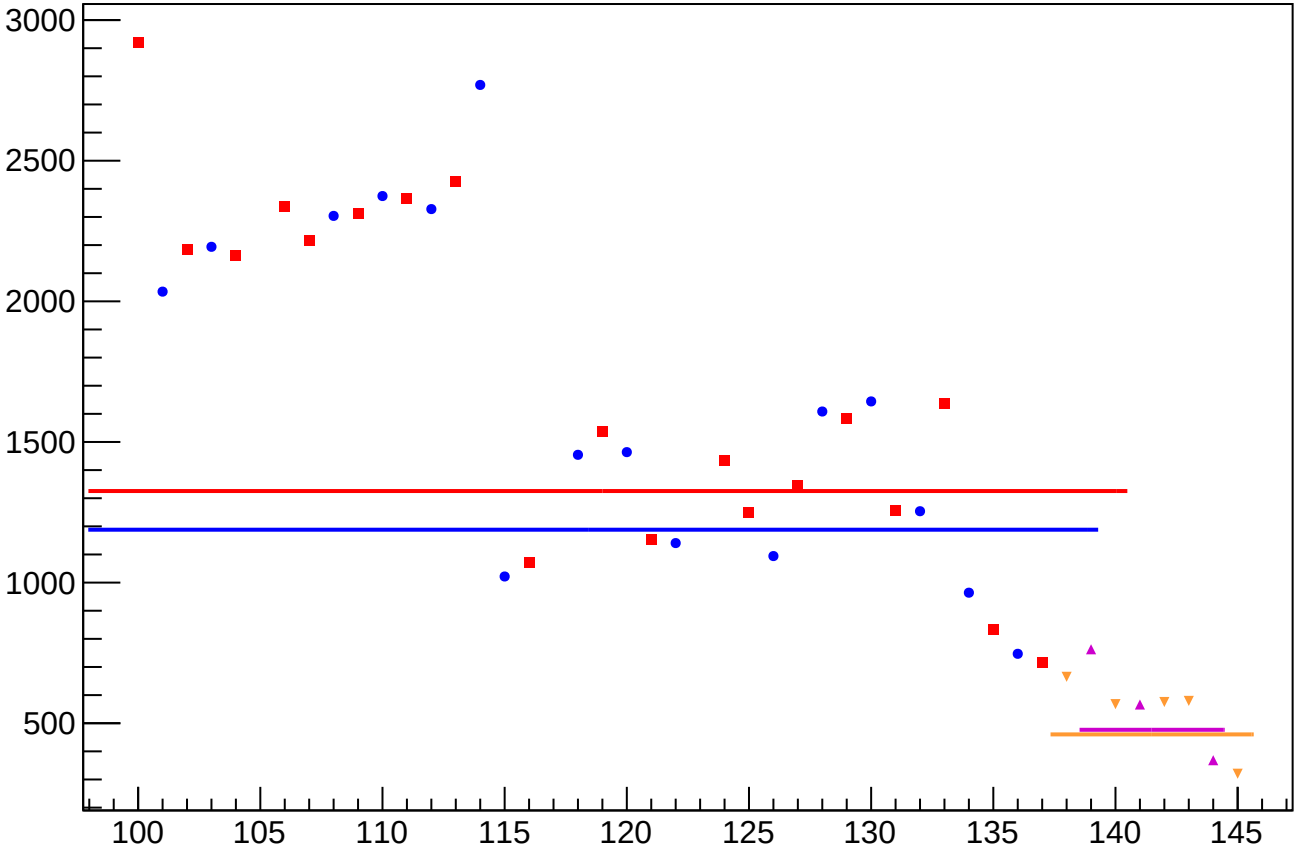
Right: -432.941+/-352.955 $\chi^2$/NDF: 34.8/34

In: -421.856+/-261.309 $\chi^2$/NDF:21.4/18

Out: -0.707+/-227.598 $\chi^2$/NDF:22.9/23

All: -182.380+/-171.625 $\chi^2$/NDF: 45.8/42

asym_sam_26_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1188.069+/-0.339 $\chi^2$/NDF: 2044666.3/15

Left Out: 460.301+/-0.179 $\chi^2$/NDF:604395.3/4

Right Out: 1325.564+/-0.369 $\chi^2$/NDF: 1920986.7/18

Left In: 476.686+/-0.220 $\chi^2$/NDF:424797.7/2

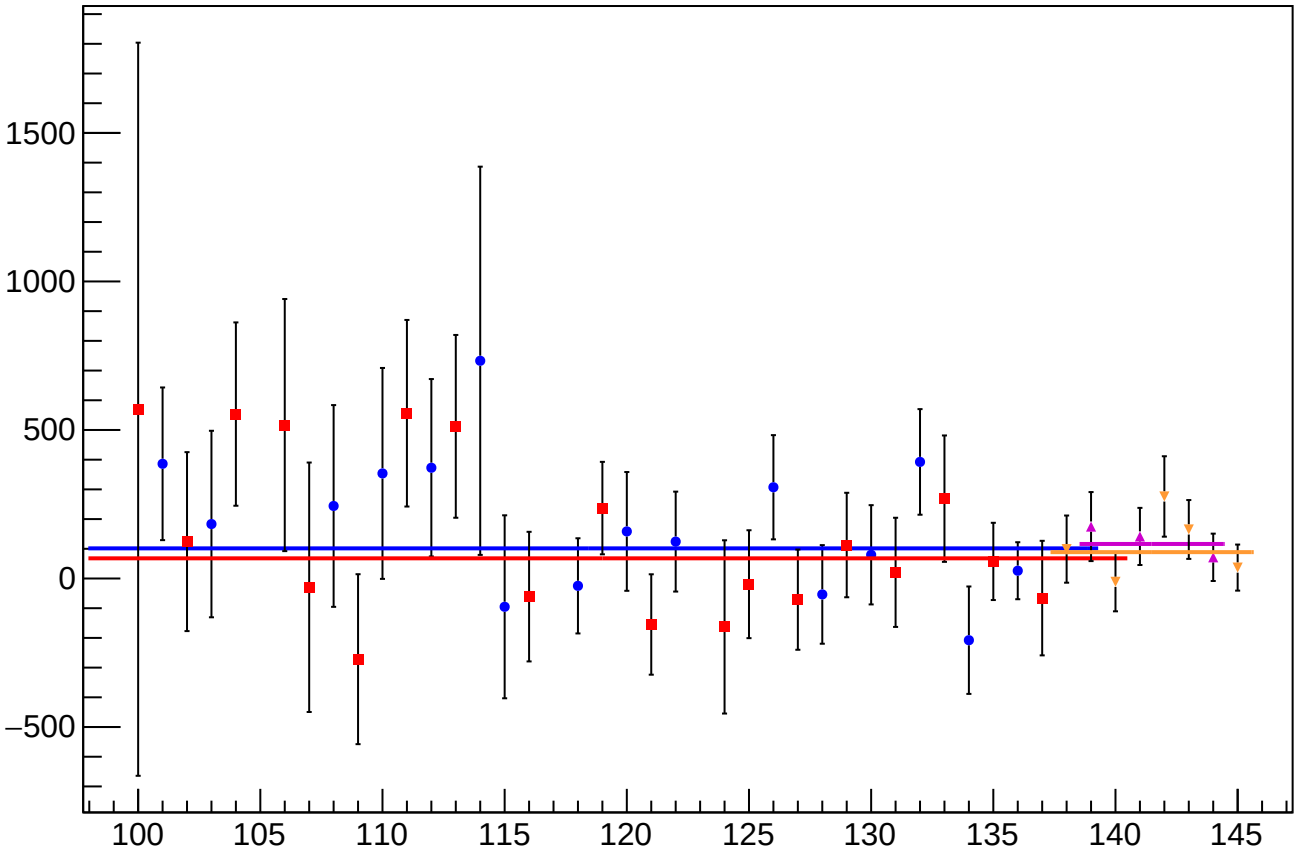
Left: 466.802+/-0.139 $\chi^2$/NDF: 1032524.2/7

Right: 1250.882+/-0.250 $\chi^2$/NDF: 4040963.9/34

In: 688.476+/-0.185 $\chi^2$/NDF:5568628.4/18

Out: 624.664+/-0.161 $\chi^2$/NDF:6973285.9/23

All: 652.191+/-0.121 $\chi^2$/NDF: 12609734.8/42




Right In: 101.446+/-47.631 $\chi^2$/NDF: 13.3/15

Left Out: 88.759+/-44.612 $\chi^2$/NDF:4.0/4

Right Out: 67.881+/-49.331 $\chi^2$/NDF: 16.1/18

Left In: 116.248+/-54.258 $\chi^2$/NDF:0.6/2

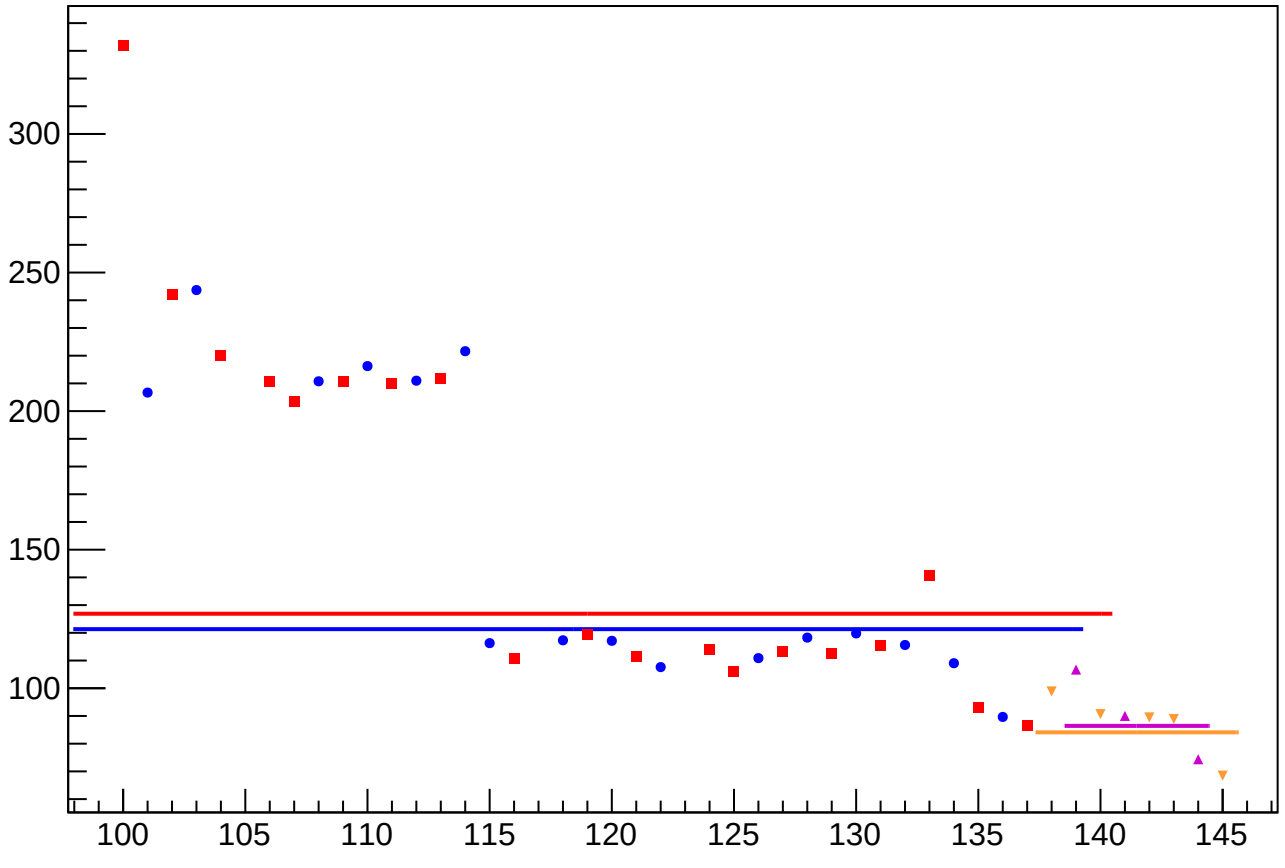
Left: 99.847+/-34.459 $\chi^2$/NDF: 4.8/7

Right: 85.252+/-34.265 $\chi^2$/NDF: 29.7/34

In: 107.889+/-35.795 $\chi^2$/NDF:14.0/18

Out: 79.367+/-33.088 $\chi^2$/NDF:20.2/23

All: 92.508+/-24.297 $\chi^2$/NDF: 34.5/42




Right In: 121.325+/-0.034 $\chi^2$/NDF: 1286654.0/15

Left Out: 84.100+/-0.032 $\chi^2$/NDF:131902.0/4

Right Out: 126.895+/-0.035 $\chi^2$/NDF: 1465478.6/18

Left In: 86.422+/-0.038 $\chi^2$/NDF:109590.1/2

Left: 85.037+/-0.024 $\chi^2$/NDF: 243676.3/7

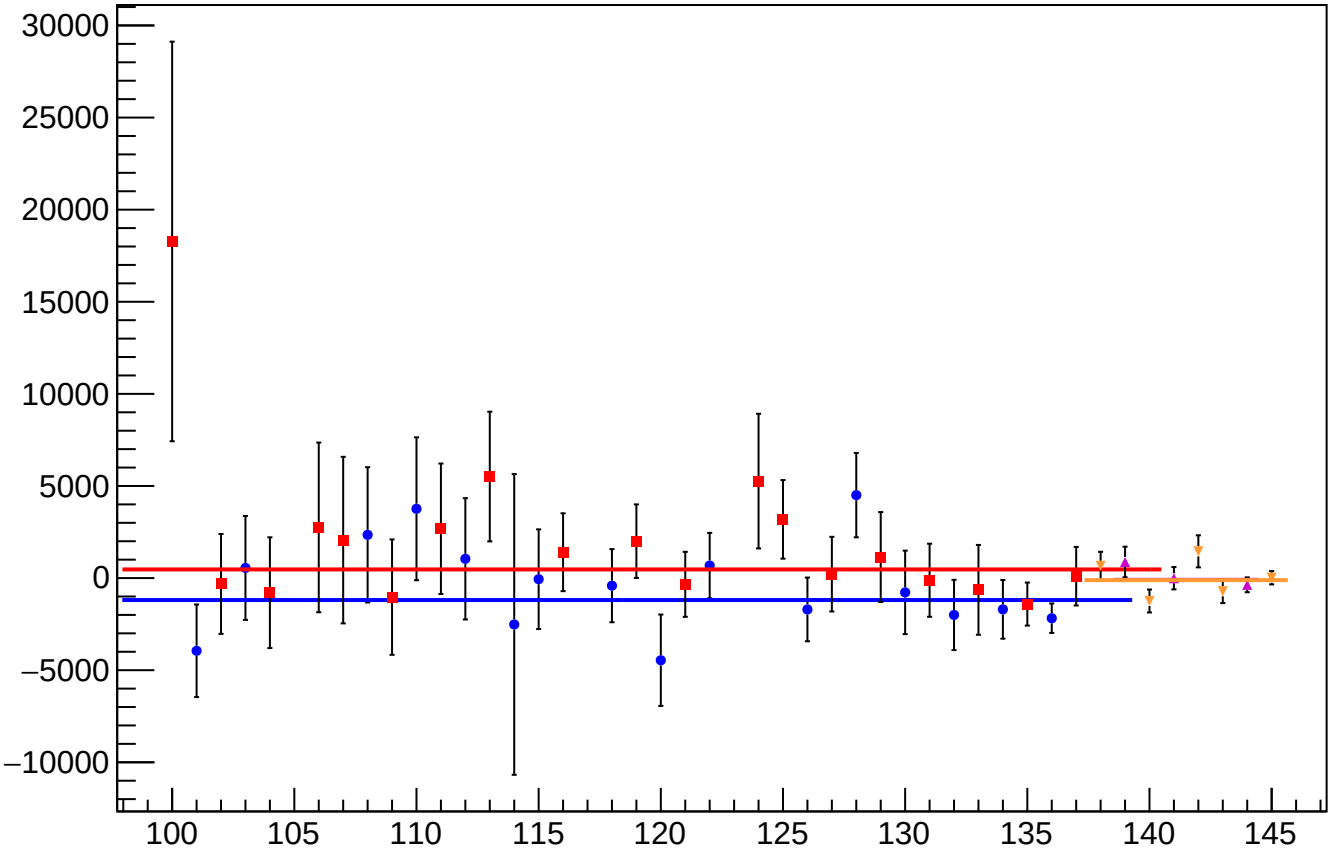
Right: 124.013+/-0.024 $\chi^2$/NDF: 2765325.4/34

In: 106.134+/-0.025 $\chi^2$/NDF:1863685.4/18

Out: 103.353+/-0.023 $\chi^2$/NDF:2425365.4/23

All: 104.635+/-0.017 $\chi^2$/NDF: 4295560.1/42

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: -111.027+/-252.879 $\chi^2$/NDF:8.6/4

Right Out: 469.736+/-522.203 $\chi^2$/NDF: 13.4/18

Left In: -95.310+/-311.816 $\chi^2$/NDF:1.8/2

Left: -104.791+/-196.408 $\chi^2$/NDF: 10.4/7

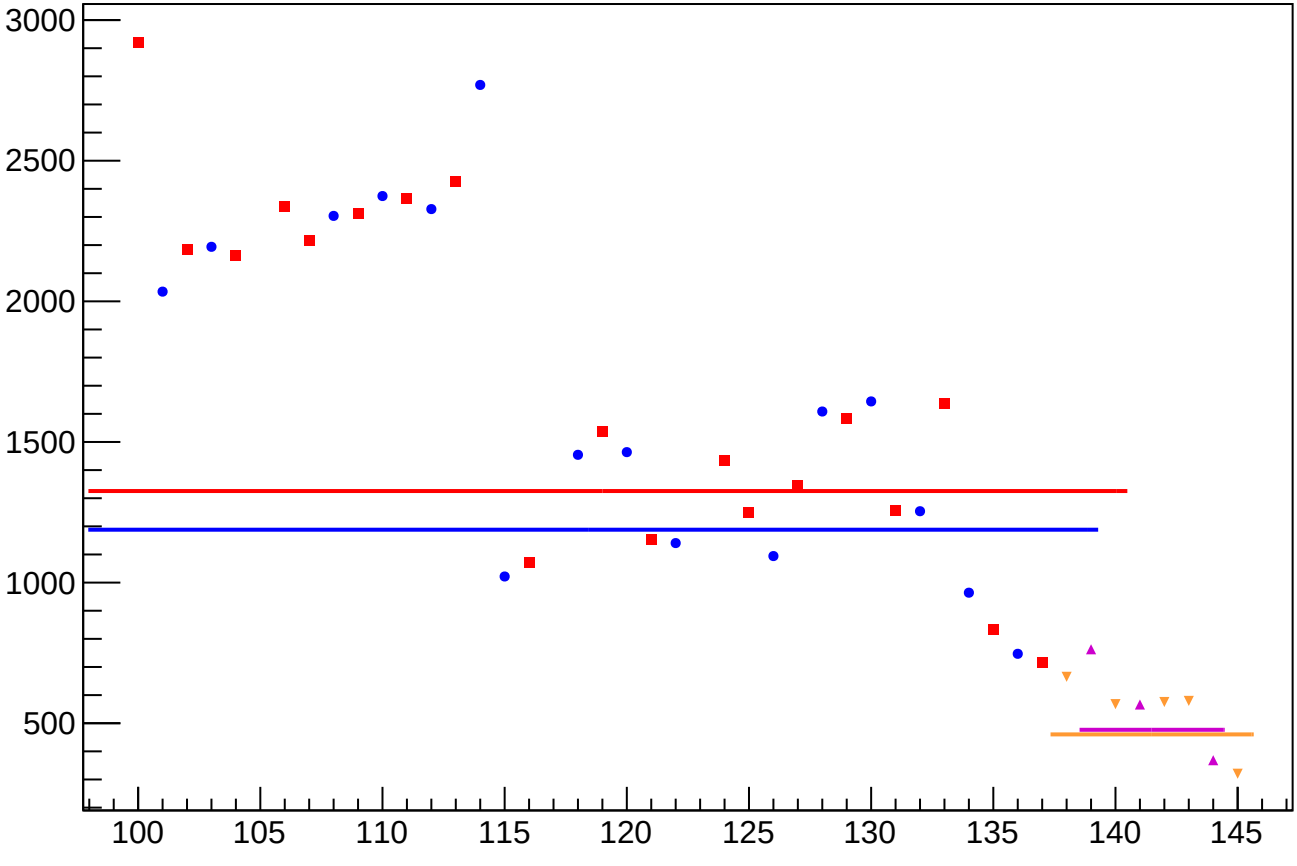
Right: -432.941+/-352.955 $\chi^2$/NDF: 34.8/34

In: -421.856+/-261.309 $\chi^2$/NDF:21.4/18

Out: -0.707+/-227.598 $\chi^2$/NDF:22.9/23

All: -182.380+/-171.625 $\chi^2$/NDF: 45.8/42

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: 460.301+/-0.179 $\chi^2$/NDF:604395.3/4

Right Out: 1325.564+/-0.369 $\chi^2$/NDF: 1920986.7/18

Left In: 476.686+/-0.220 $\chi^2$/NDF:424797.7/2

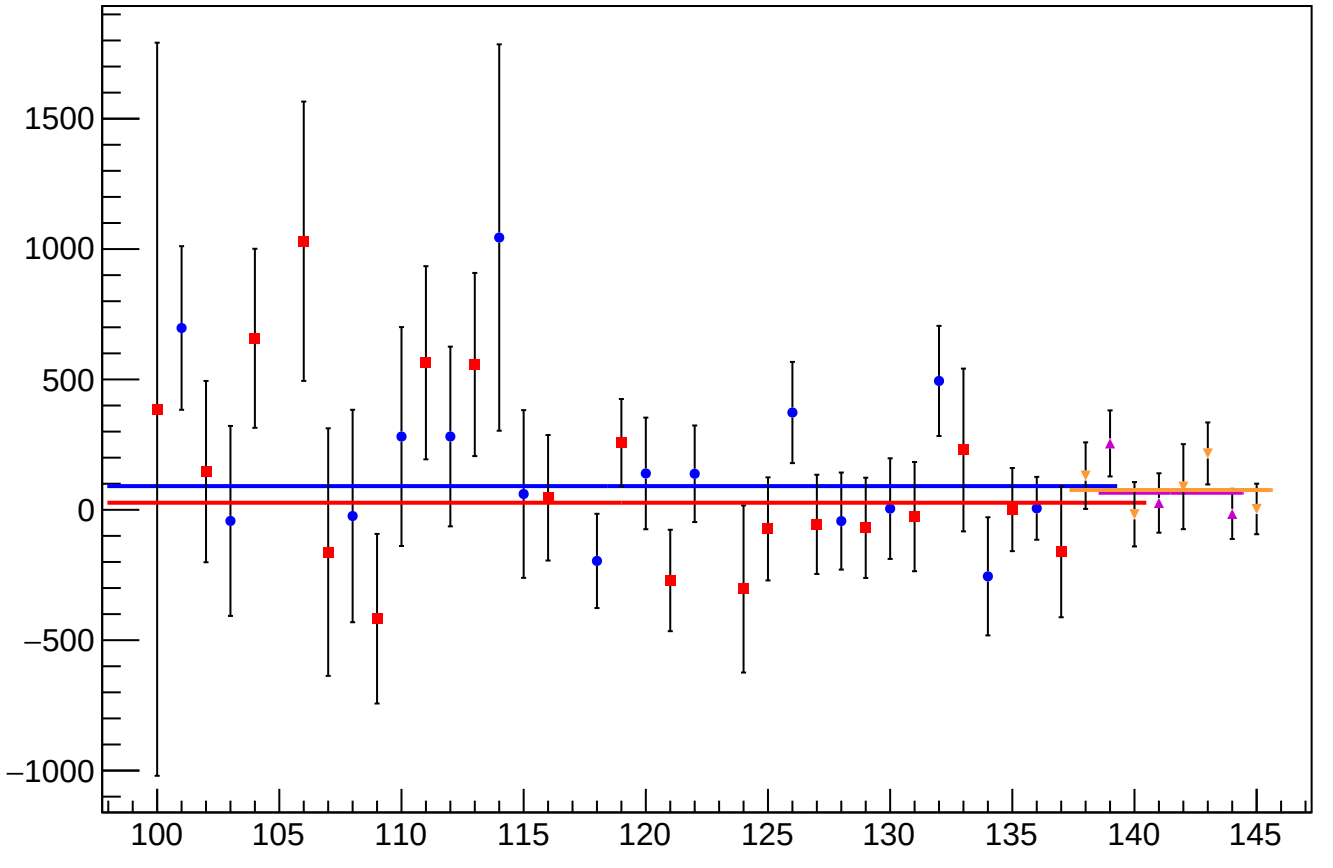
Left: 466.802+/-0.139 $\chi^2$/NDF: 1032524.2/7

Right: 1250.882+/-0.250 $\chi^2$/NDF: 4040963.9/34

In: 688.476+/-0.185 $\chi^2$/NDF:5568628.4/18

Out: 624.664+/-0.161 $\chi^2$/NDF:6973285.9/23

All: 652.191+/-0.121 $\chi^2$/NDF: 12609734.8/42




Right In: 90.908+/-55.565 $\chi^2$/NDF: 18.1/15

Left Out: 75.876+/-54.085 $\chi^2$/NDF:2.7/4

Right Out: 27.170+/-57.015 $\chi^2$/NDF: 20.6/18

Left In: 65.511+/-63.568 $\chi^2$/NDF:3.1/2

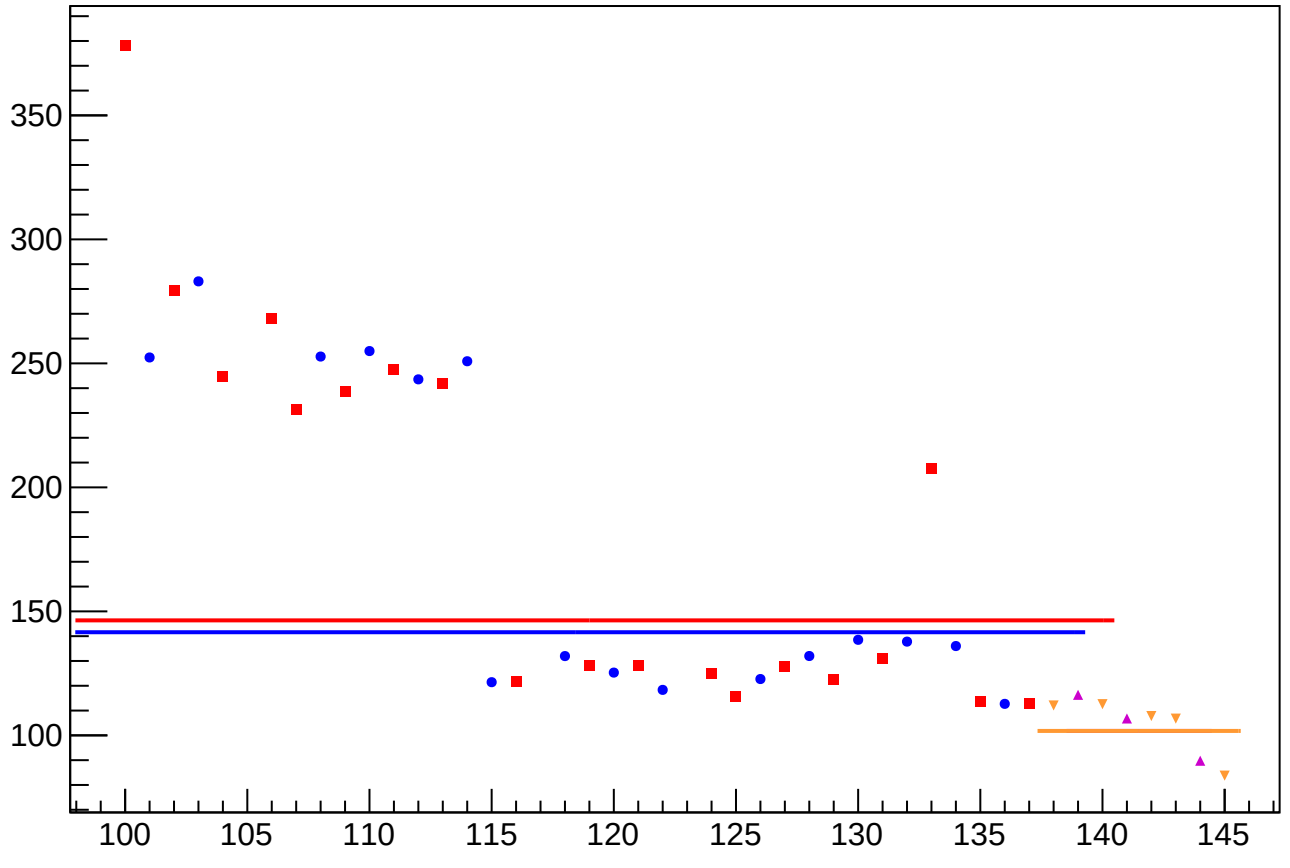
Left: 71.524+/-41.193 $\chi^2$/NDF: 5.8/7

Right: 59.860+/-39.793 $\chi^2$/NDF: 39.3/34

In: 79.908+/-41.835 $\chi^2$/NDF:21.2/18

Out: 52.807+/-39.239 $\chi^2$/NDF:23.6/23

All: 65.491+/-28.620 $\chi^2$/NDF: 45.1/42




Right In: 141.586+/-0.039 $\chi^2$/NDF: 1262366.8/15

Left Out: 101.787+/-0.038 $\chi^2$/NDF:103534.2/4

Right Out: 146.368+/-0.040 $\chi^2$/NDF: 1513656.0/18

Left In: 101.784+/-0.045 $\chi^2$/NDF:61537.3/2

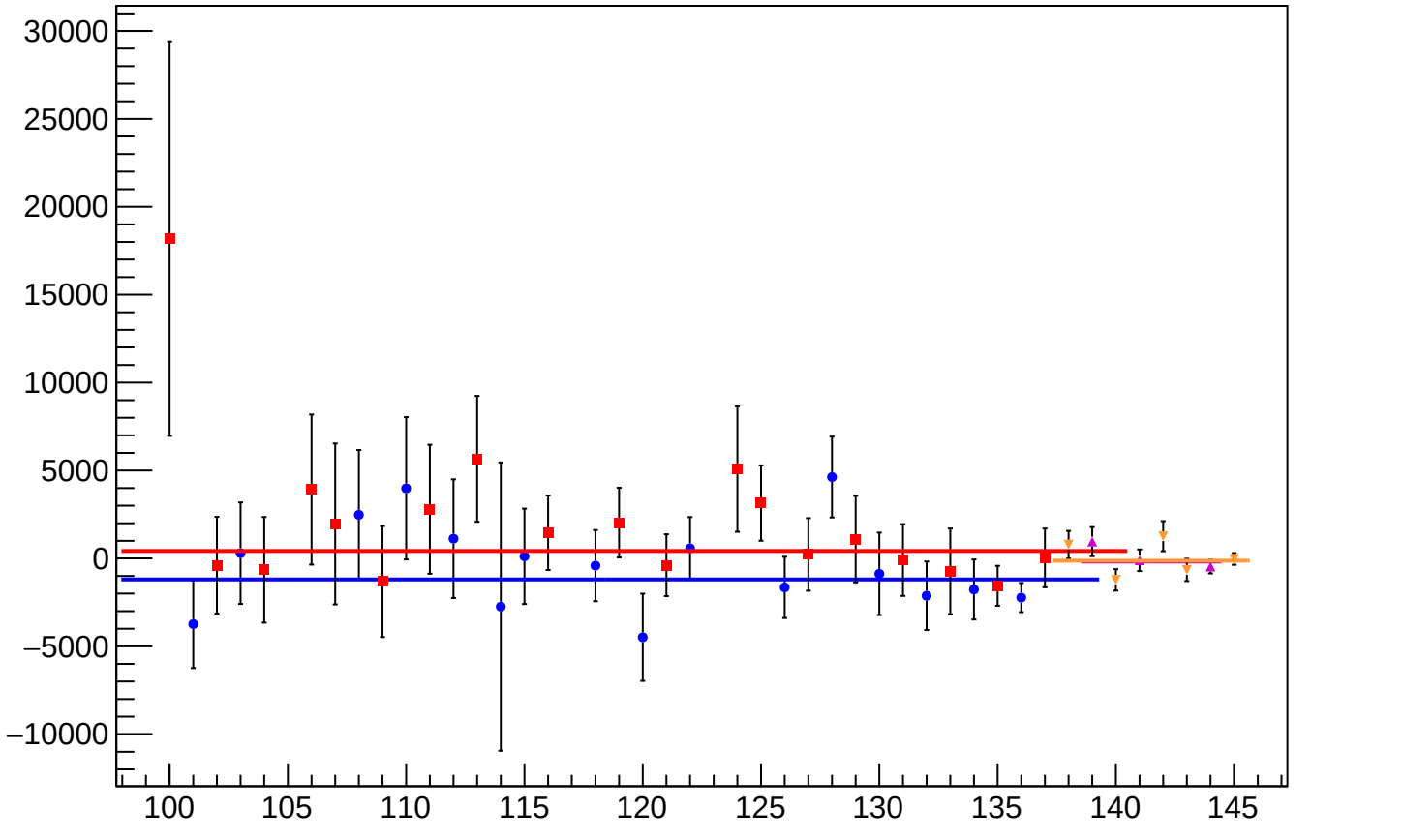
Left: 101.786+/-0.029 $\chi^2$/NDF: 165071.5/7

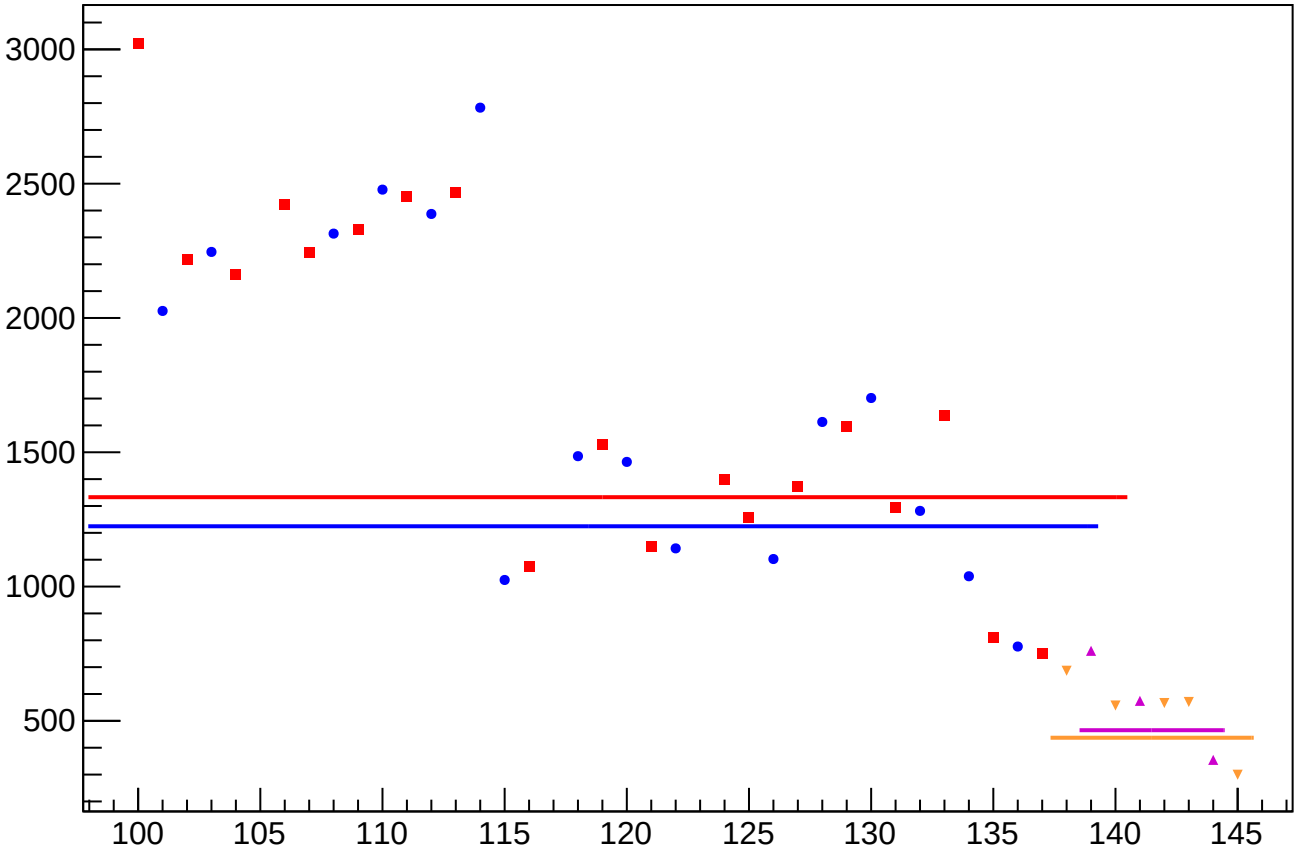
Right: 143.916+/-0.028 $\chi^2$/NDF: 2783239.3/34

In: 124.347+/-0.030 $\chi^2$/NDF:1768389.4/18

Out: 122.903+/-0.028 $\chi^2$/NDF:2260808.8/23

All: 123.579+/-0.020 $\chi^2$/NDF: 4030466.1/42


asym_sam_26_avg_dit_correction_mean vs Slug, Sign Corrected
30000
25000
20000
15000
10000
5000
0
−5000
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -1196.663+/-491.384 χ²/NDF: 16.0/15
Left Out: -128.991+/-241.586 χ²/NDF:8.0/4
Right Out: 422.161+/-523.834 χ²/NDF: 14.3/18
Left In: -180.143+/-306.271 χ²/NDF:2.4/2
Left: -148.610+/-189.679 χ²/NDF: 10.4/7
Right: -438.942+/-358.384 χ²/NDF: 35.3/34
In: -464.554+/-259.918 χ²/NDF:21.5/18
Out: -32.324+/-219.379 χ²/NDF:23.2/23
All: -212.141+/-167.646 χ²/NDF: 46.2/42




Right In: 1224.470+/-0.347 $\chi^2$/NDF: 1959362.3/15

Left Out: 437.199+/-0.171 $\chi^2$/NDF:752933.7/4

Right Out: 1332.785+/-0.370 $\chi^2$/NDF: 1994811.5/18

Left In: 465.219+/-0.217 $\chi^2$/NDF:477980.0/2

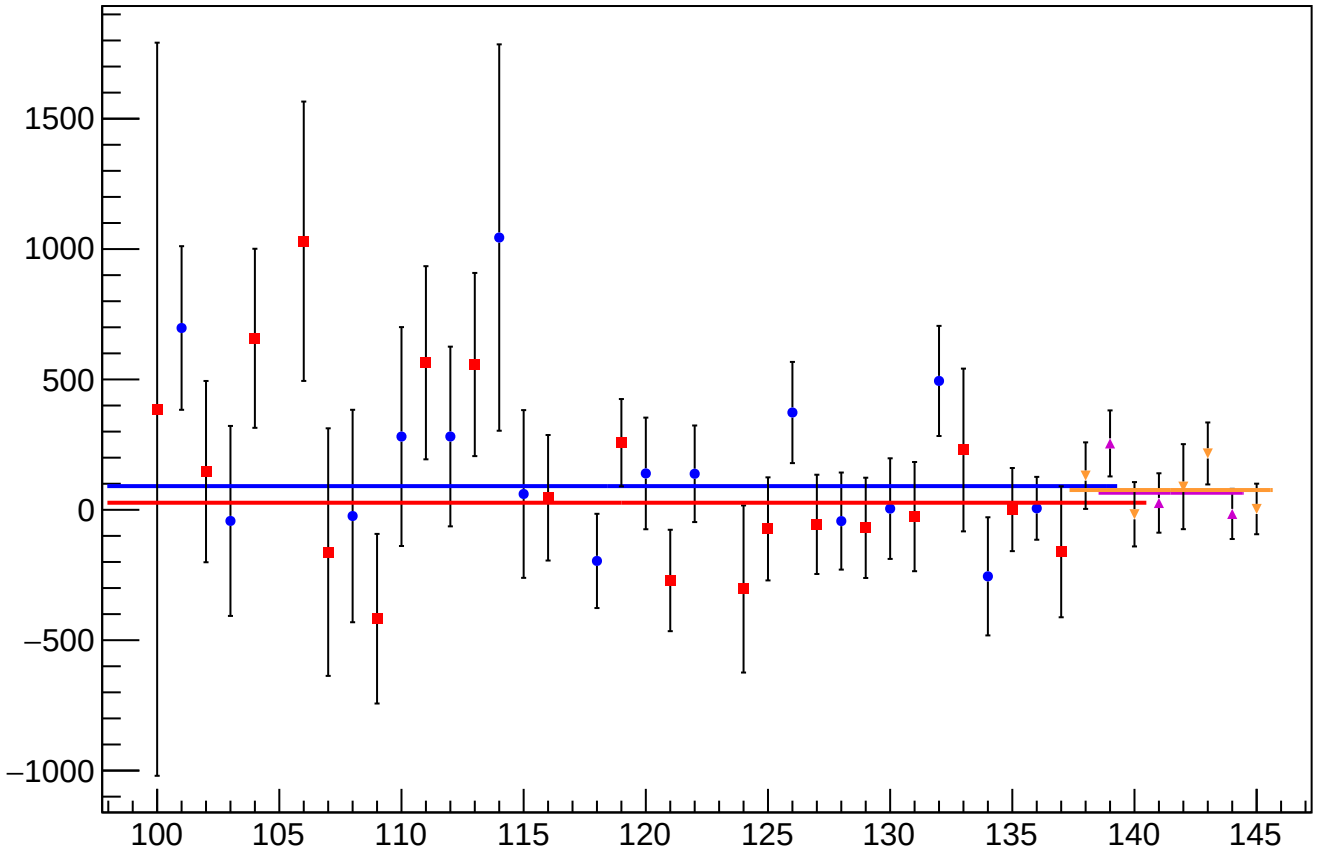
Left: 447.946+/-0.134 $\chi^2$/NDF: 1241232.9/7

Right: 1275.169+/-0.253 $\chi^2$/NDF: 3999659.2/34

In: 677.649+/-0.184 $\chi^2$/NDF:5876234.9/18

Out: 594.276+/-0.155 $\chi^2$/NDF:7568392.2/23

All: 628.961+/-0.119 $\chi^2$/NDF: 13564799.6/42




Right In: 90.910+/-55.564 $\chi^2$/NDF: 18.1/15

Left Out: 75.874+/-54.085 $\chi^2$/NDF:2.7/4

Right Out: 27.170+/-57.015 $\chi^2$/NDF: 20.6/18

Left In: 65.511+/-63.568 $\chi^2$/NDF:3.1/2

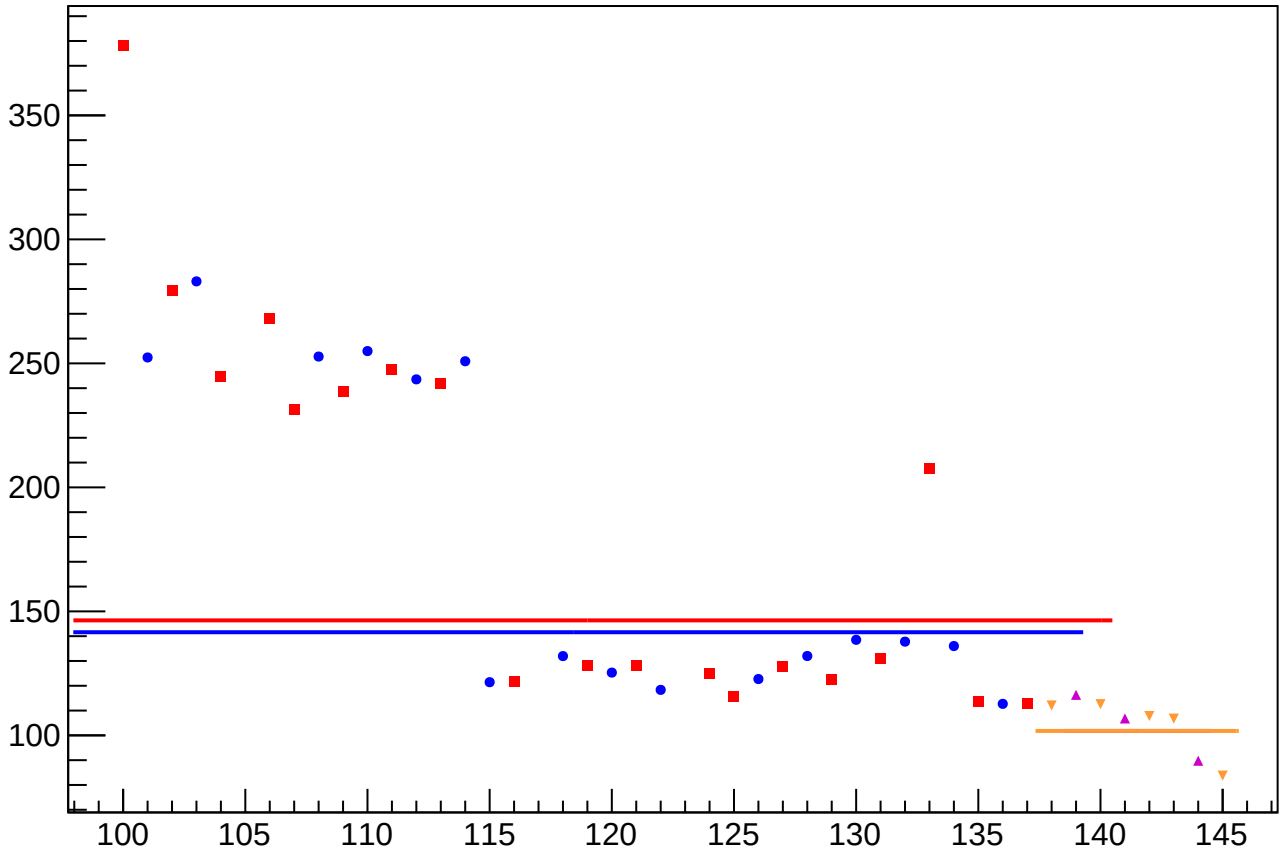
Left: 71.522+/-41.193 $\chi^2$/NDF: 5.8/7

Right: 59.862+/-39.793 $\chi^2$/NDF: 39.3/34

In: 79.909+/-41.835 $\chi^2$/NDF:21.2/18

Out: 52.806+/-39.239 $\chi^2$/NDF:23.6/23

All: 65.490+/-28.620 $\chi^2$/NDF: 45.1/42




Right In: 141.586+/-0.039 $\chi^2$/NDF: 1262350.2/15

Left Out: 101.788+/-0.038 $\chi^2$/NDF:103525.1/4

Right Out: 146.368+/-0.040 $\chi^2$/NDF: 1513641.5/18

Left In: 101.785+/-0.045 $\chi^2$/NDF:61535.2/2

Left: 101.787+/-0.029 $\chi^2$/NDF: 165060.4/7

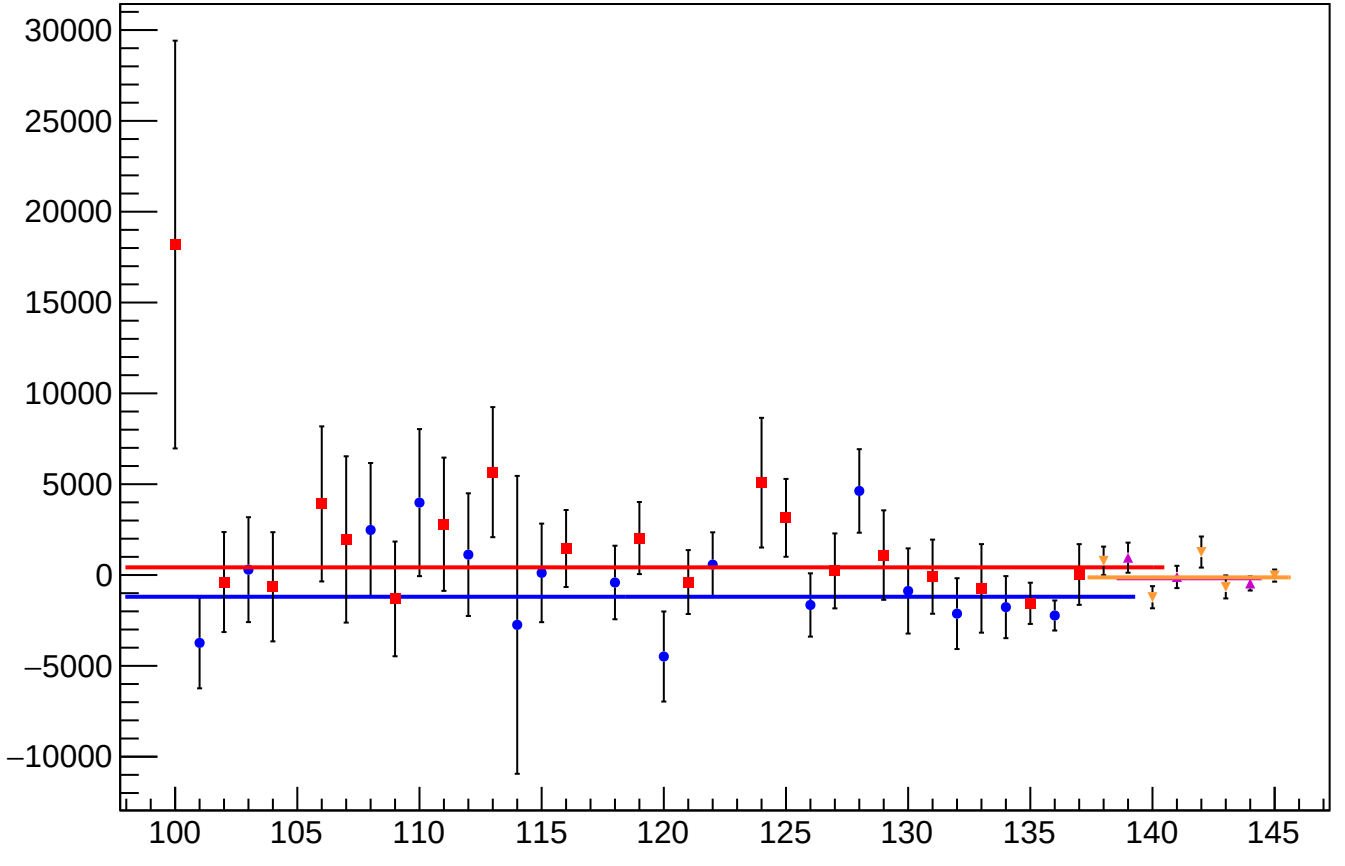
Right: 143.915+/-0.028 $\chi^2$/NDF: 2783209.2/34

In: 124.347+/-0.030 $\chi^2$/NDF:1768341.9/18

Out: 122.903+/-0.028 $\chi^2$/NDF:2260758.9/23

All: 123.579+/-0.020 $\chi^2$/NDF: 4030368.4/42

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: -128.992+/-241.585 $\chi^2$/NDF:8.0/4

Right Out: 422.163+/-523.833 $\chi^2$/NDF: 14.3/18

Left In: -180.143+/-306.270 $\chi^2$/NDF:2.4/2

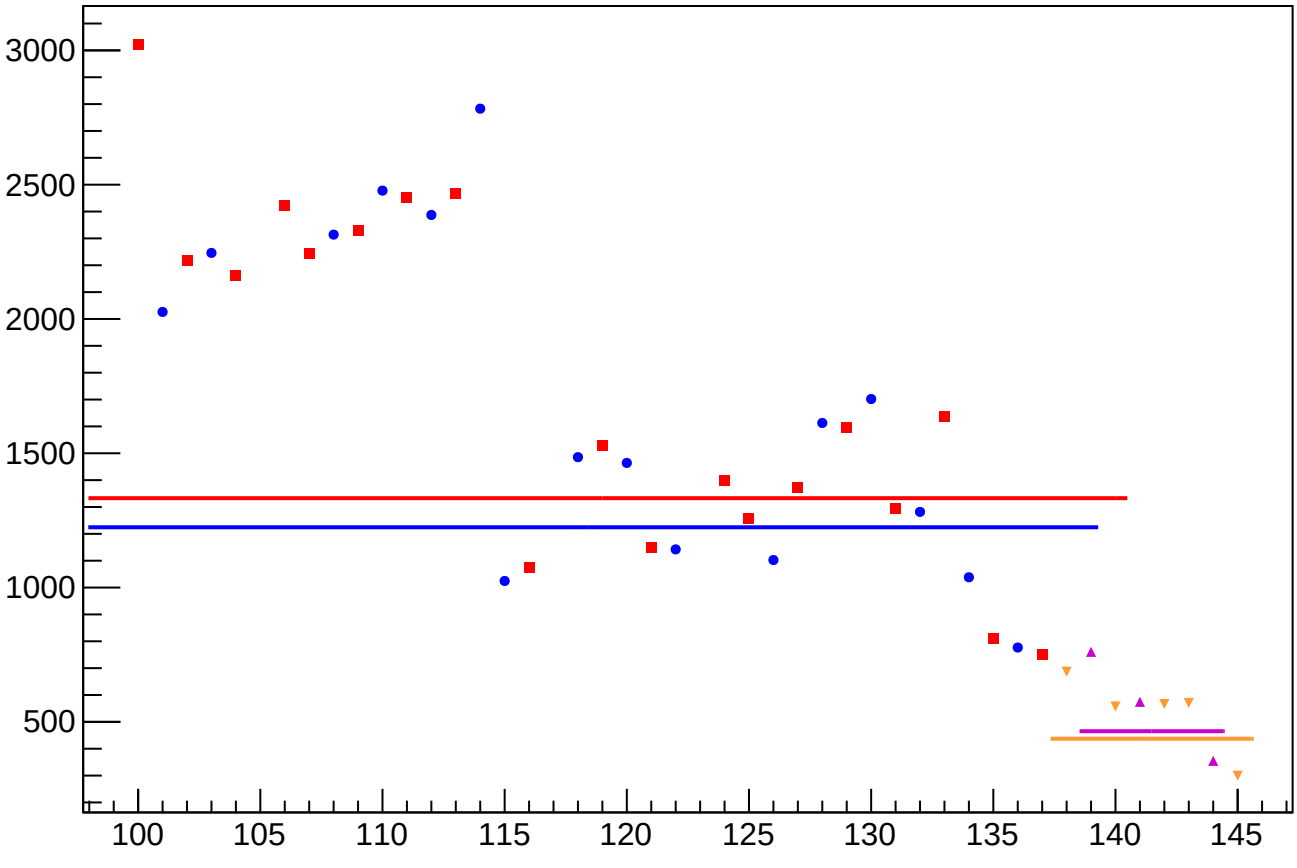
Left: -148.611+/-189.678 $\chi^2$/NDF: 10.4/7

Right: -438.939+/-358.384 $\chi^2$/NDF: 35.3/34

In: -464.552+/-259.917 $\chi^2$/NDF:21.5/18

Out: -32.326+/-219.379 $\chi^2$/NDF:23.2/23

All: -212.141+/-167.646 $\chi^2$/NDF: 46.2/42




Right In: 1224.470+/-0.347 $\chi^2$/NDF: 1959341.1/15

Left Out: 437.197+/-0.171 $\chi^2$/NDF:752952.7/4

Right Out: 1332.784+/-0.370 $\chi^2$/NDF: 1994794.3/18

Left In: 465.218+/-0.217 $\chi^2$/NDF:477983.3/2

Left: 447.944+/-0.134 $\chi^2$/NDF: 1241256.0/7

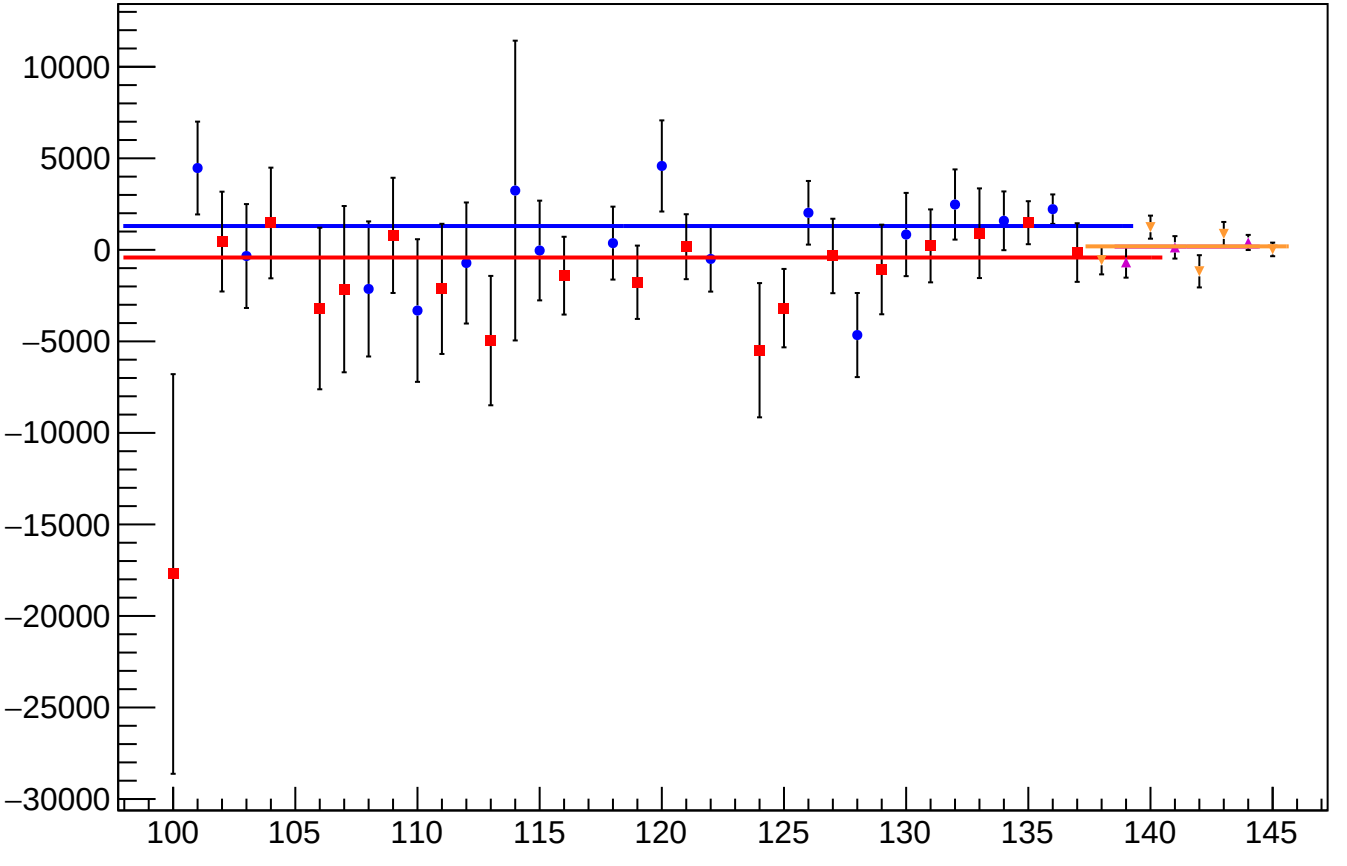
Right: 1275.168+/-0.253 $\chi^2$/NDF: 3999620.7/34

In: 677.647+/-0.184 $\chi^2$/NDF:5876238.9/18

Out: 594.273+/-0.155 $\chi^2$/NDF:7568432.8/23

All: 628.958+/-0.119 $\chi^2$/NDF: 13564849.0/42

# asym_sam_26_avg_mean vs Slug, Sign Corrected




Right In: 1301.623+/-481.959 $\chi^2$/NDF: 16.5/15

Left Out: 190.396+/-257.436 $\chi^2$/NDF:7.4/4

Right Out: -418.283+/-524.515 $\chi^2$/NDF: 13.0/18

Left In: 176.809+/-317.135 $\chi^2$/NDF:1.4/2

Left: 184.999+/-199.872 $\chi^2$/NDF: 8.8/7

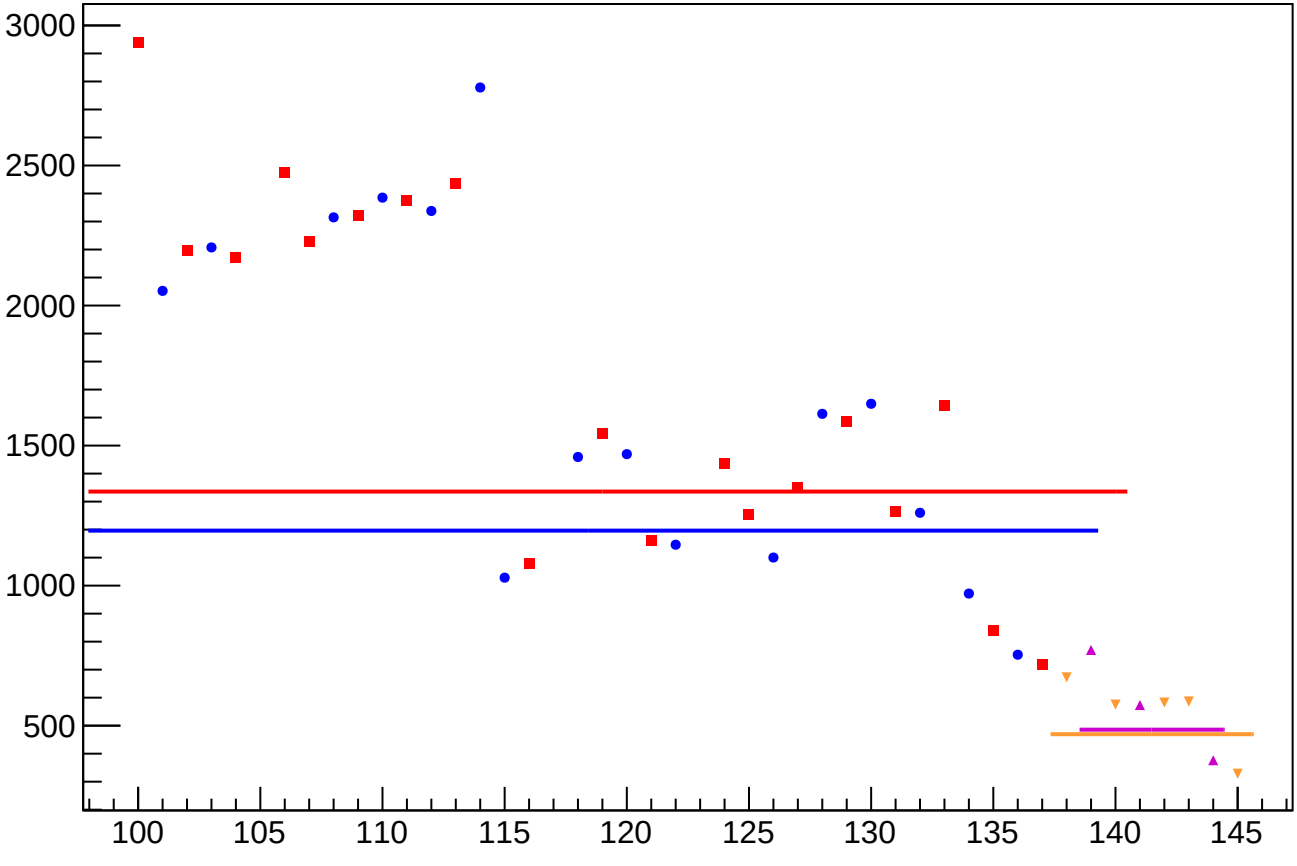
Right: 514.263+/-354.889 $\chi^2$/NDF: 35.3/34

In: 516.676+/-264.926 $\chi^2$/NDF:21.6/18

Out: 72.234+/-231.101 $\chi^2$/NDF:21.5/23

All: 264.289+/-174.152 $\chi^2$/NDF: 44.8/42

# asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 1196.353+/-0.341 $\chi^2$/NDF: 2031710.2/15

Left Out: 469.503+/-0.182 $\chi^2$/NDF:580183.4/4

Right Out: 1335.809+/-0.371 $\chi^2$/NDF: 1951472.1/18

Left In: 485.695+/-0.224 $\chi^2$/NDF:411529.9/2

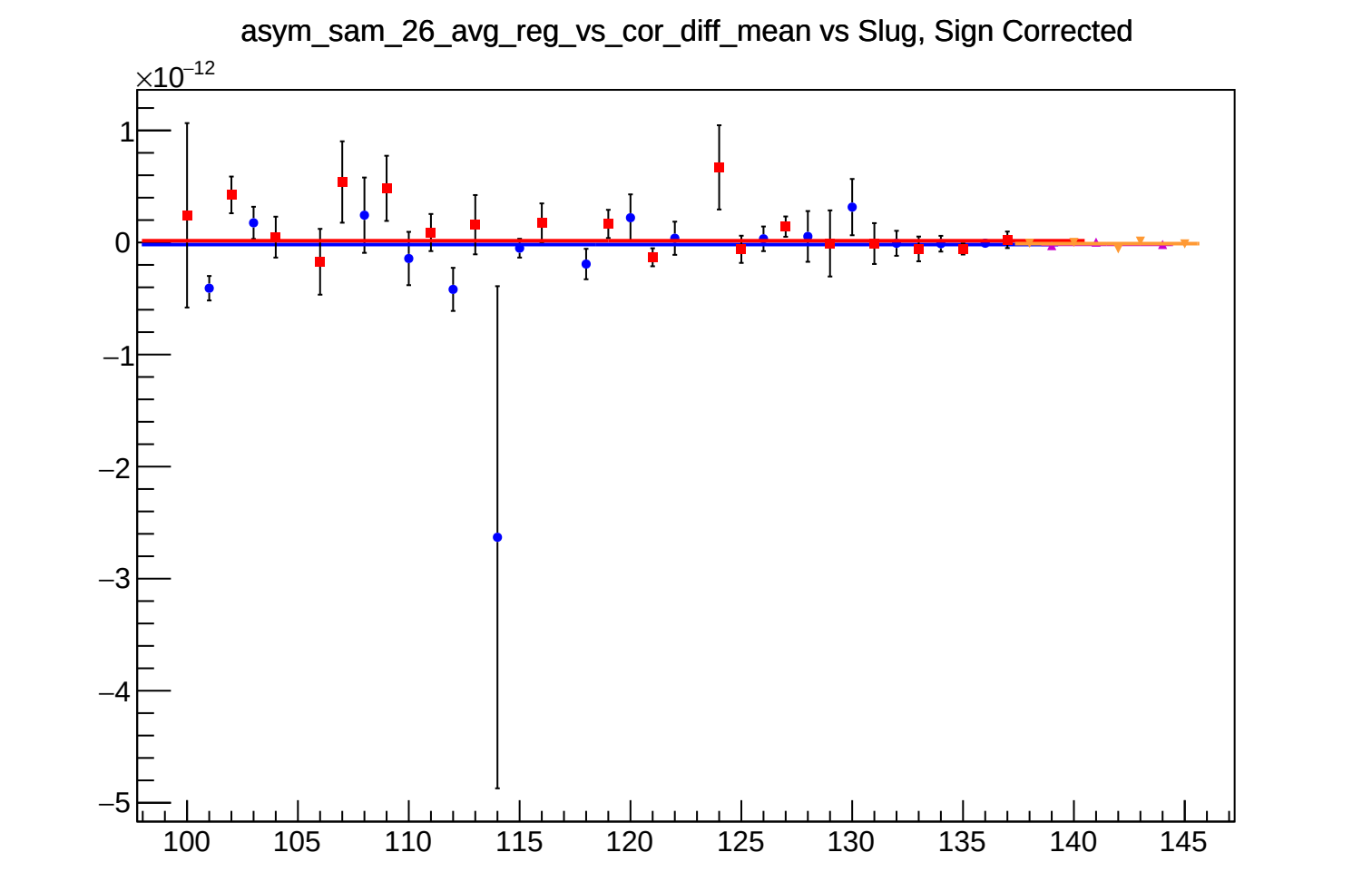
Left: 475.935+/-0.141 $\chi^2$/NDF: 994856.1/7

Right: 1260.195+/-0.251 $\chi^2$/NDF: 4059839.9/34

In: 700.423+/-0.187 $\chi^2$/NDF:5477765.6/18

Out: 637.677+/-0.163 $\chi^2$/NDF:6928313.8/23

All: 664.791+/-0.123 $\chi^2$/NDF: 12469790.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 26.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.7/2

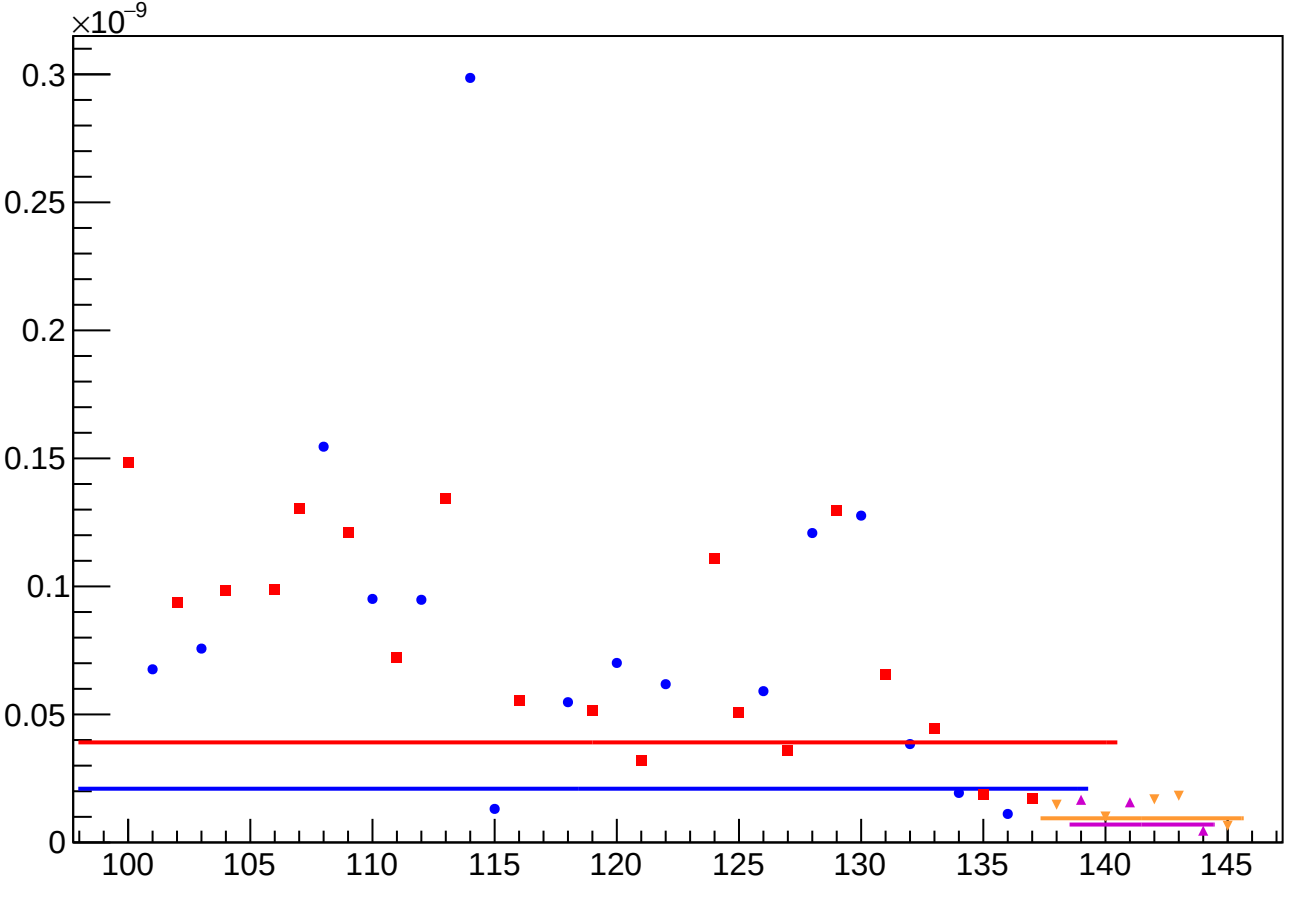
Left: -0.000+/-0.000 $\chi^2$/NDF: 3.6/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 53.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:27.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:29.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 57.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3380958.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:498417.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2073862.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:605875.2/2

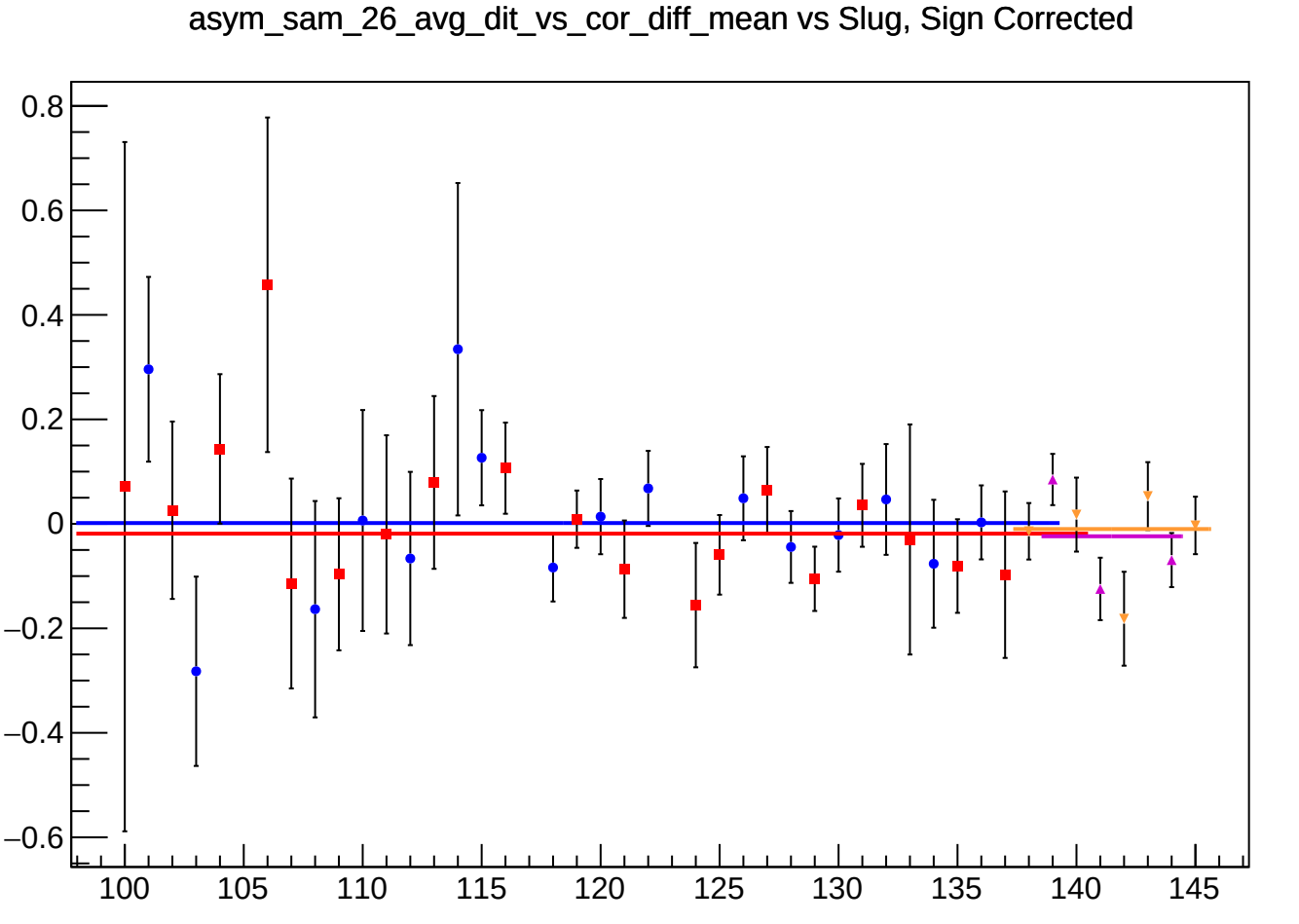
Left: 0.000+/-0.000 $\chi^2$/NDF: 1190925.7/7

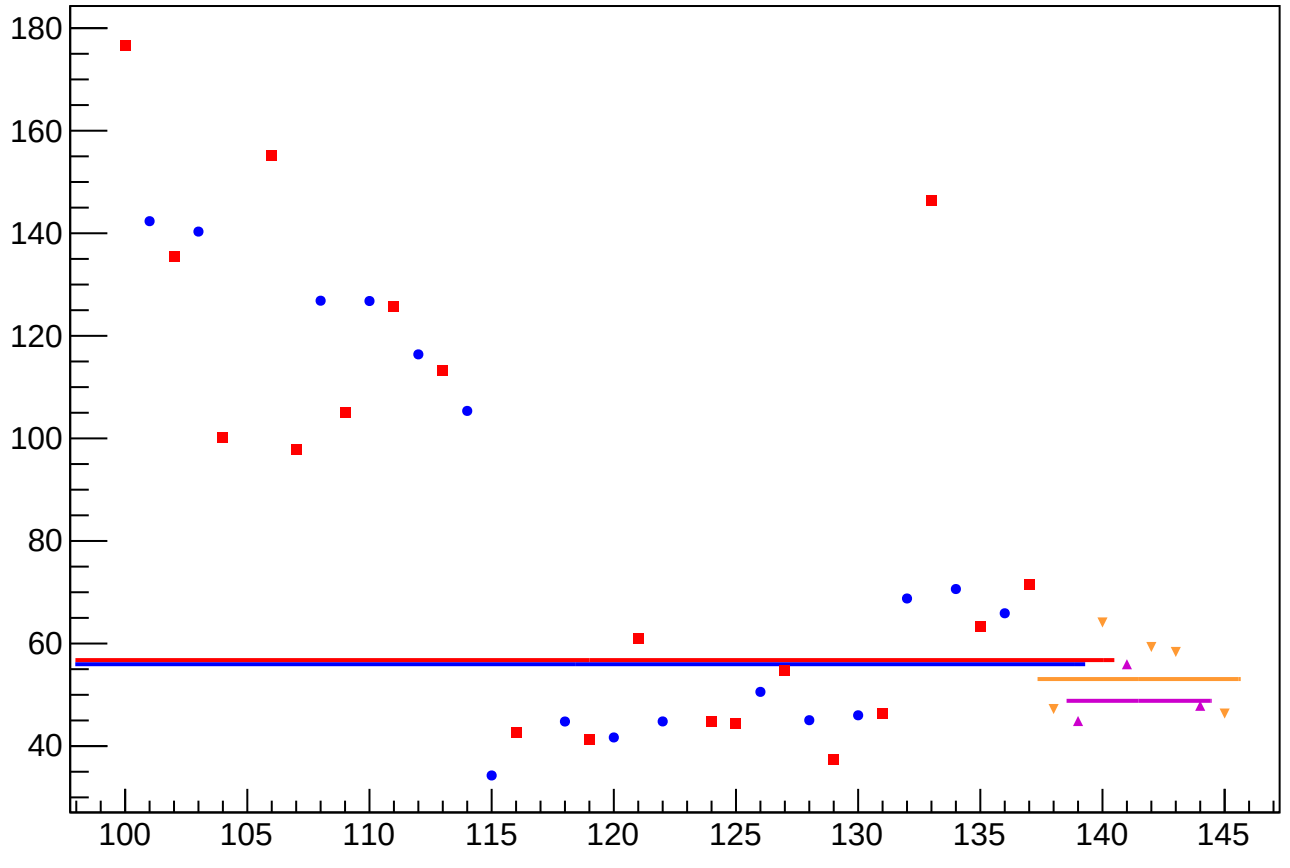
Right: 0.000+/-0.000 $\chi^2$/NDF: 6062420.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4992088.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4701097.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9772552.8/42


asym_sam_26_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
100
105
110
115
120
125
130
135
140
145
Right In: 0.002+/-0.023 χ²/NDF: 13.1/15
Left Out: -0.010+/-0.028 χ²/NDF:4.8/4
Right Out: -0.019+/-0.024 χ²/NDF: 13.1/18
Left In: -0.024+/-0.031 χ²/NDF:8.5/2
Left: -0.016+/-0.021 χ²/NDF: 13.4/7
Right: -0.009+/-0.017 χ²/NDF: 26.6/34
In: -0.008+/-0.019 χ²/NDF:22.0/18
Out: -0.015+/-0.018 χ²/NDF:17.9/23
All: -0.012+/-0.013 χ²/NDF: 40.0/42




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179829.3/15

Left Out: 53.074+/-0.020 $\chi^2$/NDF:124763.3/4

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553223.5/18

Left In: 48.830+/-0.022 $\chi^2$/NDF:42122.1/2

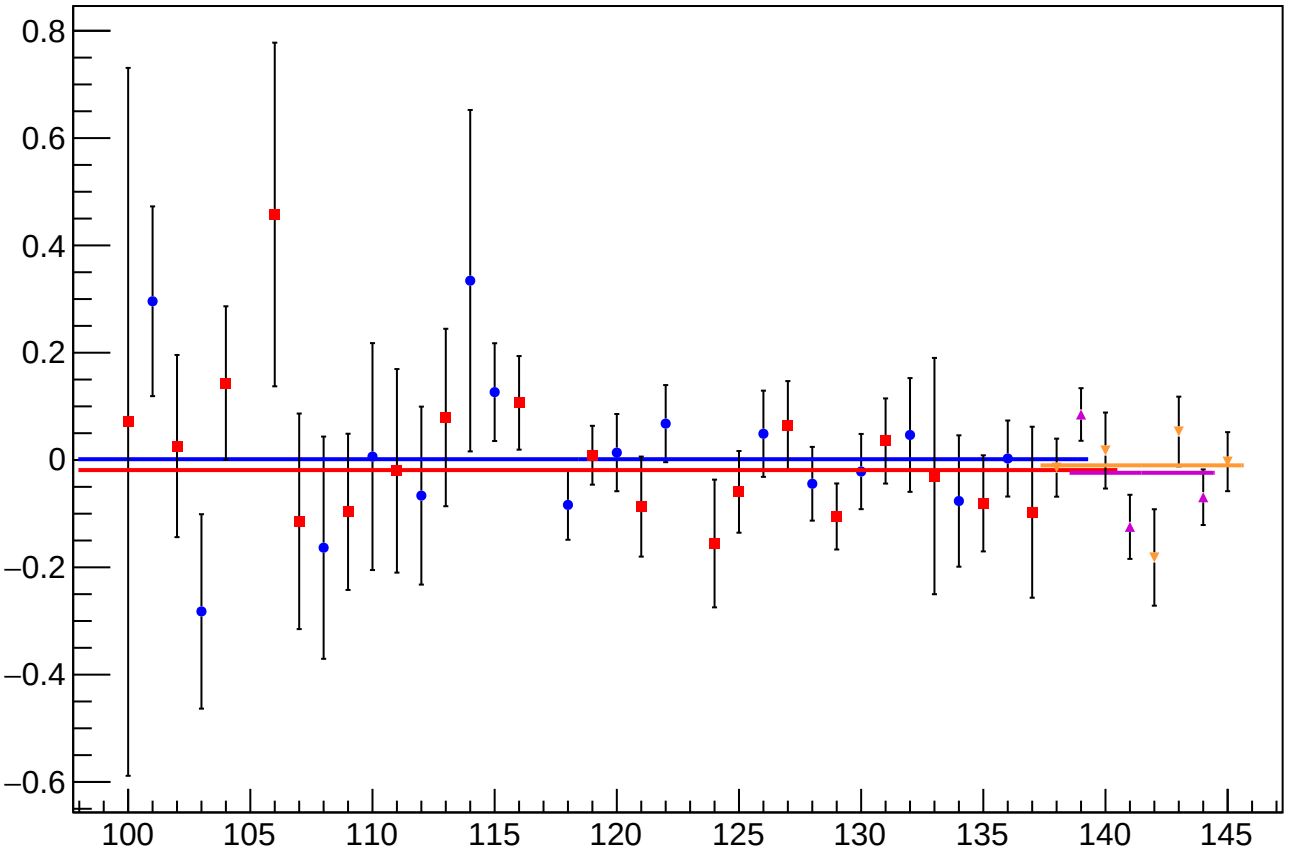
Left: 51.103+/-0.015 $\chi^2$/NDF: 187508.7/7

Right: 56.368+/-0.012 $\chi^2$/NDF: 4734221.0/34

In: 53.330+/-0.013 $\chi^2$/NDF:2290624.6/18

Out: 55.272+/-0.013 $\chi^2$/NDF:2698012.0/23

All: 54.326+/-0.009 $\chi^2$/NDF: 4999815.8/42




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: -0.010+/-0.028 $\chi^2$/NDF:4.8/4

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: -0.024+/-0.031 $\chi^2$/NDF:8.5/2

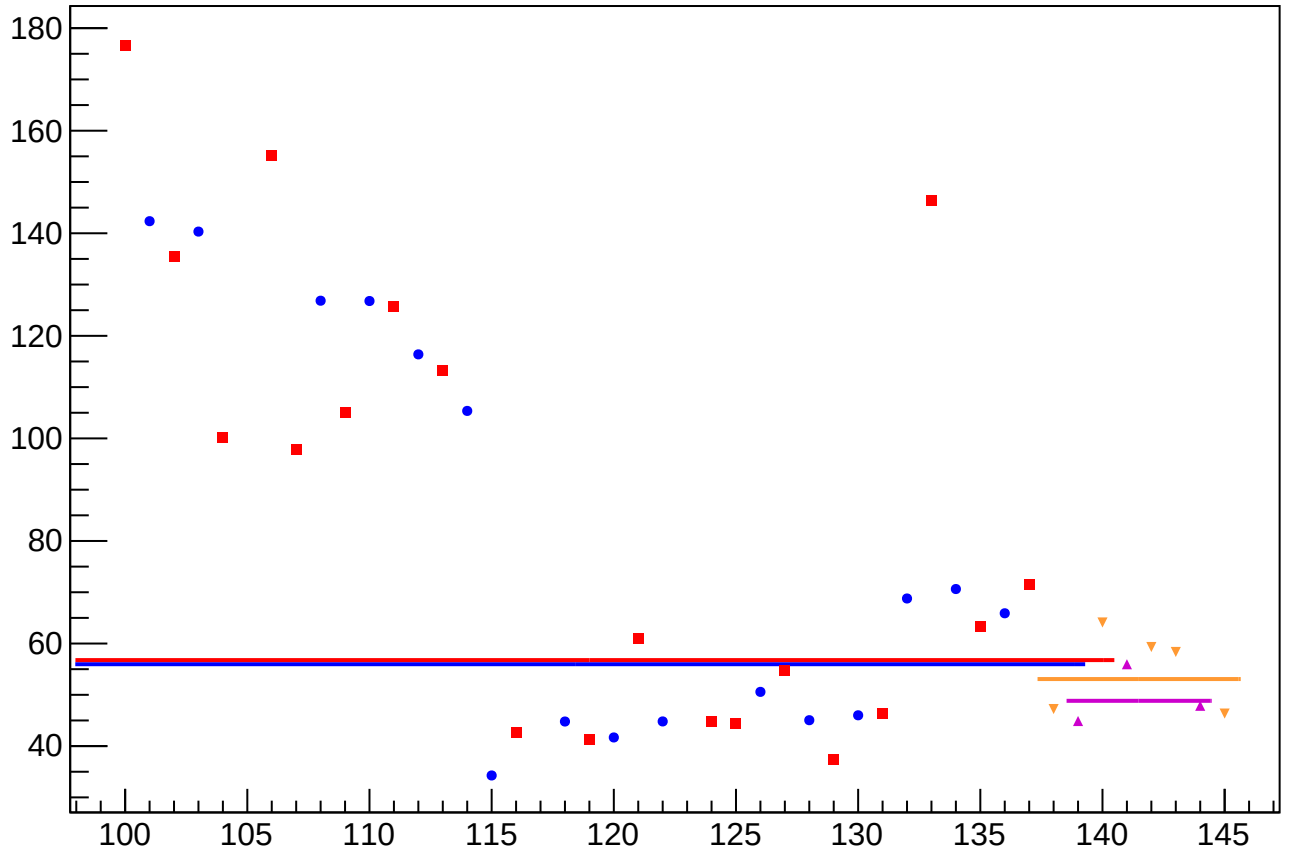
Left: -0.016+/-0.021 $\chi^2$/NDF: 13.4/7

Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: -0.008+/-0.019 $\chi^2$/NDF:22.0/18

Out: -0.015+/-0.018 $\chi^2$/NDF:17.9/23

All: -0.012+/-0.013 $\chi^2$/NDF: 40.0/42




Right In: 55.968+/-0.017 $\chi^2$/NDF: 2179829.3/15

Left Out: 53.074+/-0.020 $\chi^2$/NDF:124763.3/4

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553223.5/18

Left In: 48.830+/-0.022 $\chi^2$/NDF:42122.1/2

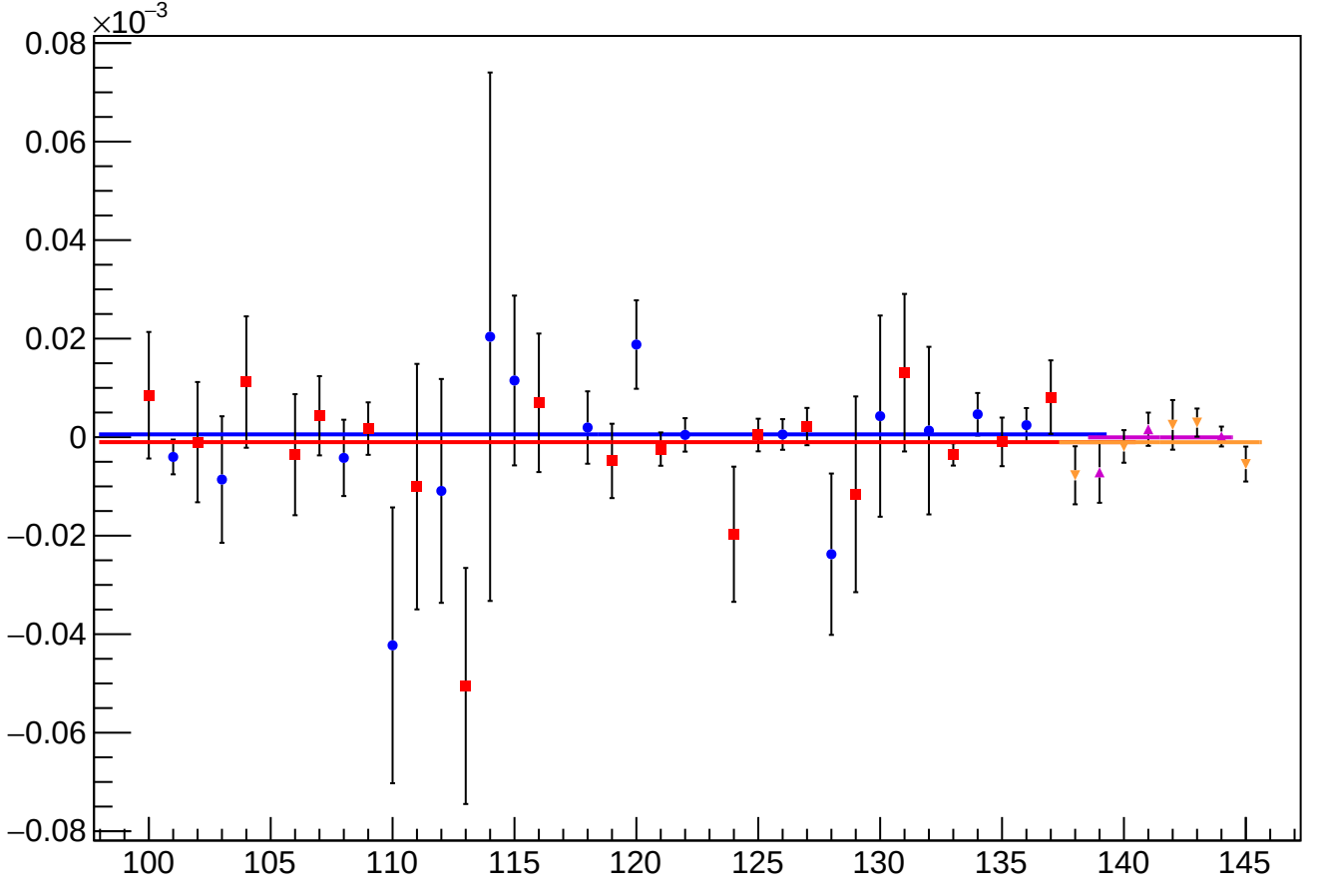
Left: 51.103+/-0.015 $\chi^2$/NDF: 187508.7/7

Right: 56.368+/-0.012 $\chi^2$/NDF: 4734221.0/34

In: 53.330+/-0.013 $\chi^2$/NDF:2290624.6/18

Out: 55.272+/-0.013 $\chi^2$/NDF:2698012.0/23

All: 54.326+/-0.009 $\chi^2$/NDF: 4999815.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.4/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.6/2

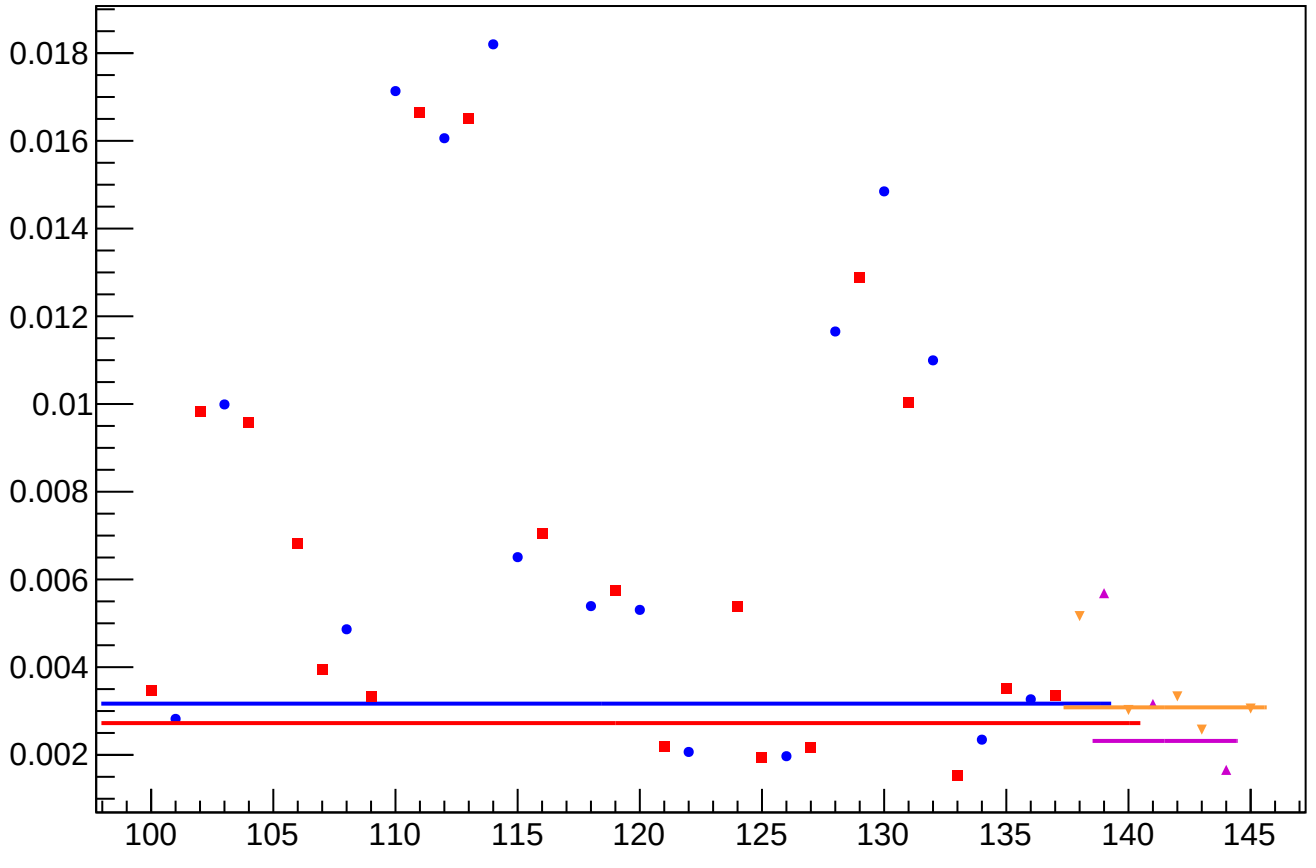
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.1/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:14.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 34.9/42




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4545616.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:318089.9/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 5153213.6/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:932423.1/2

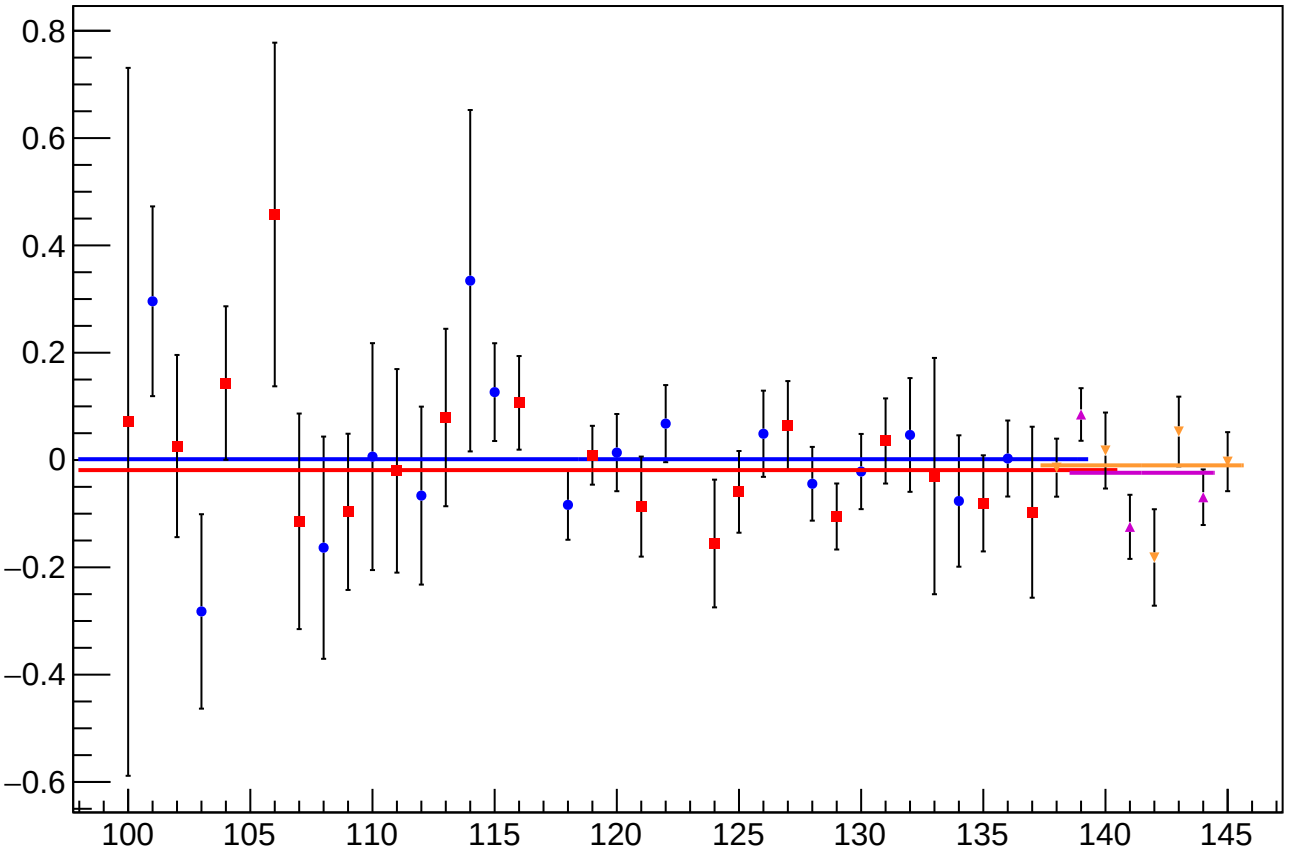
Left: 0.003+/-0.000 $\chi^2$/NDF: 1461766.9/7

Right: 0.003+/-0.000 $\chi^2$/NDF: 9804761.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:5774606.4/18

Out: 0.003+/-0.000 $\chi^2$/NDF:5530014.8/23

All: 0.003+/-0.000 $\chi^2$/NDF: 11307284.5/42




Right In: 0.002+/-0.023 $\chi^2$/NDF: 13.1/15

Left Out: -0.010+/-0.028 $\chi^2$/NDF:4.8/4

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: -0.024+/-0.031 $\chi^2$/NDF:8.5/2

Left: -0.016+/-0.021 $\chi^2$/NDF: 13.4/7

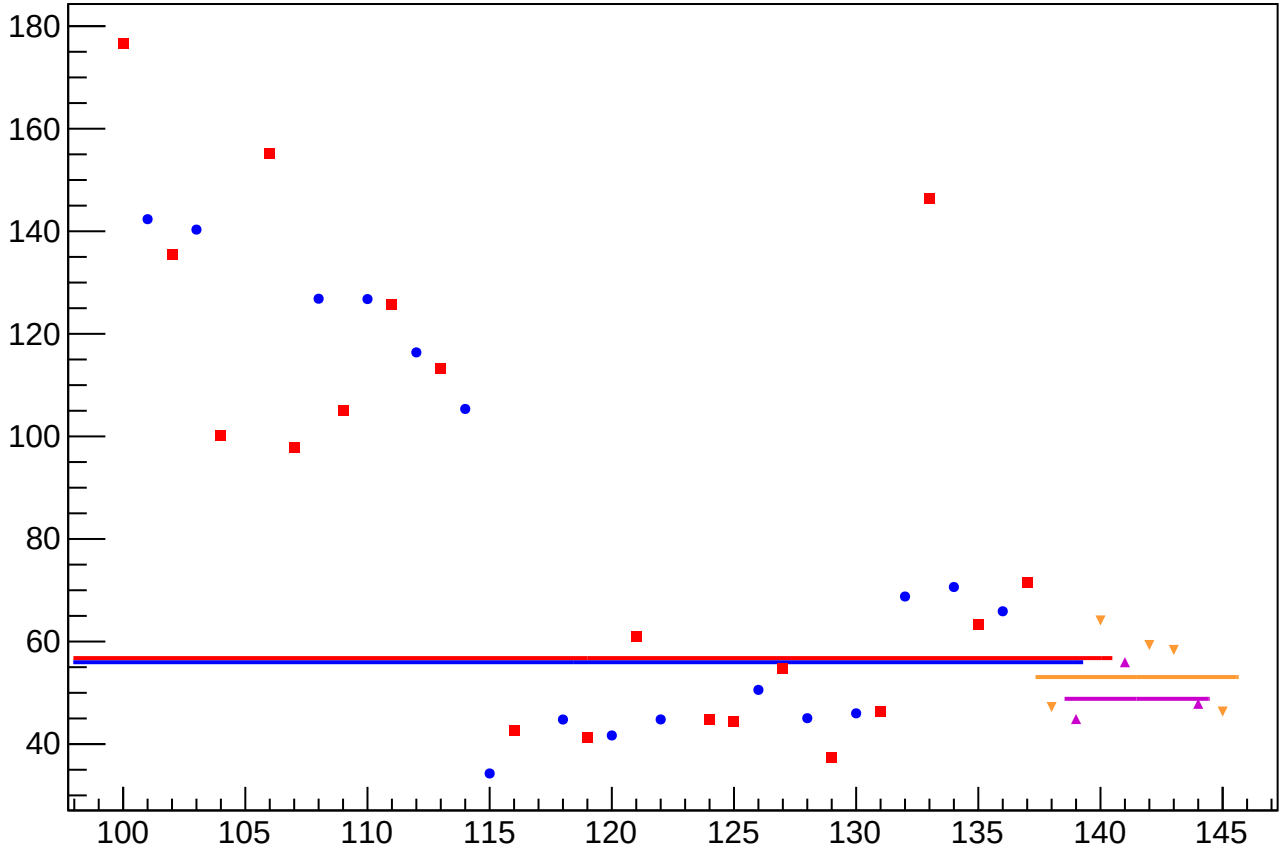
Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: -0.008+/-0.019 $\chi^2$/NDF:22.0/18

Out: -0.015+/-0.018 $\chi^2$/NDF:17.9/23

All: -0.012+/-0.013 $\chi^2$/NDF: 40.0/42

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: 53.075+/-0.020 $\chi^2$/NDF:124756.9/4

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553168.3/18

Left In: 48.831+/-0.022 $\chi^2$/NDF:42126.7/2

Left: 51.104+/-0.015 $\chi^2$/NDF: 187506.2/7

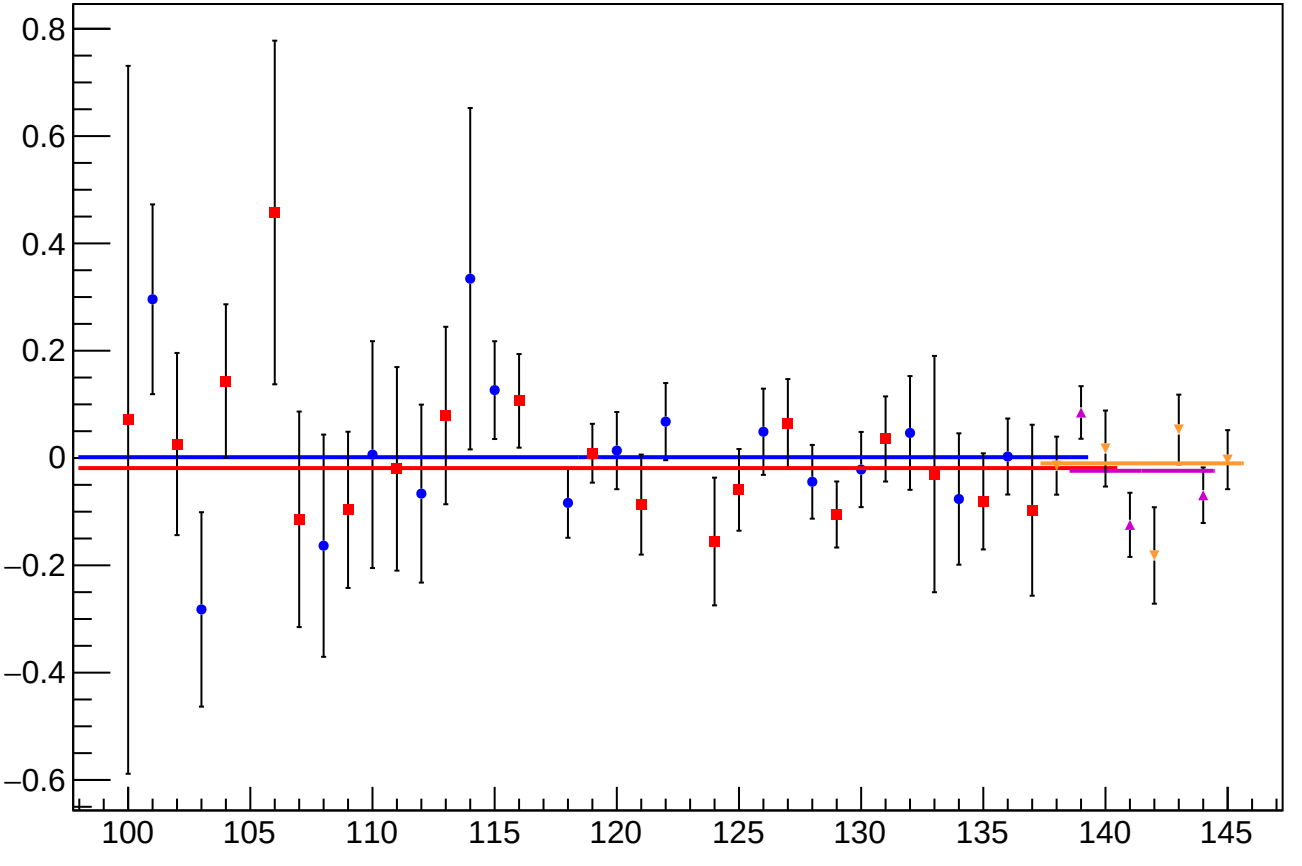
Right: 56.367+/-0.012 $\chi^2$/NDF: 4734093.5/34

In: 53.331+/-0.013 $\chi^2$/NDF:2290536.9/18

Out: 55.272+/-0.013 $\chi^2$/NDF:2697936.9/23

All: 54.326+/-0.009 $\chi^2$/NDF: 4999651.3/42

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: -0.010+/-0.028 $\chi^2$/NDF:4.8/4

Right Out: -0.019+/-0.024 $\chi^2$/NDF: 13.1/18

Left In: -0.024+/-0.031 $\chi^2$/NDF:8.5/2

Left: -0.016+/-0.021 $\chi^2$/NDF: 13.4/7

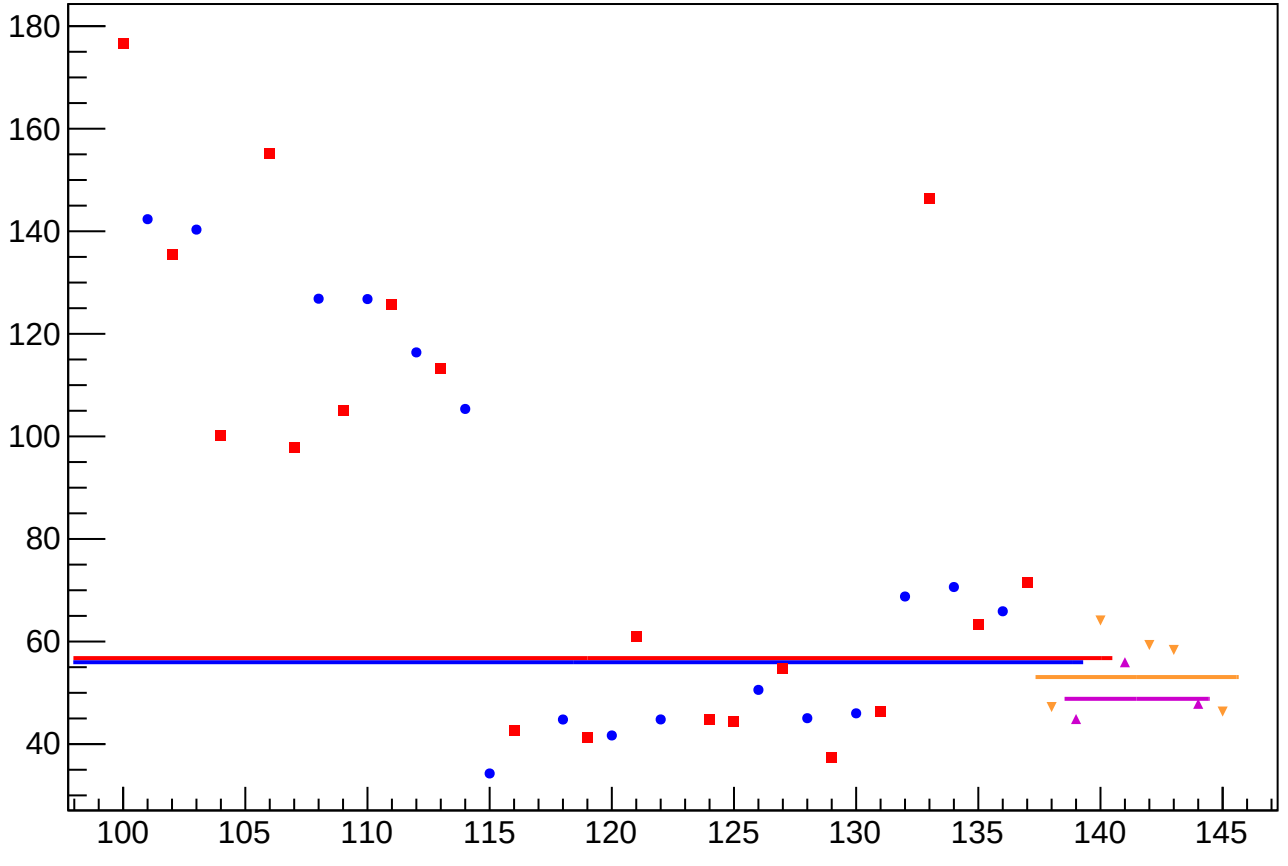
Right: -0.009+/-0.017 $\chi^2$/NDF: 26.6/34

In: -0.008+/-0.019 $\chi^2$/NDF:22.0/18

Out: -0.015+/-0.018 $\chi^2$/NDF:17.9/23

All: -0.012+/-0.013 $\chi^2$/NDF: 40.0/42

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: 53.075+/-0.020 $\chi^2$/NDF:124756.9/4

Right Out: 56.770+/-0.017 $\chi^2$/NDF: 2553168.3/18

Left In: 48.831+/-0.022 $\chi^2$/NDF:42126.7/2

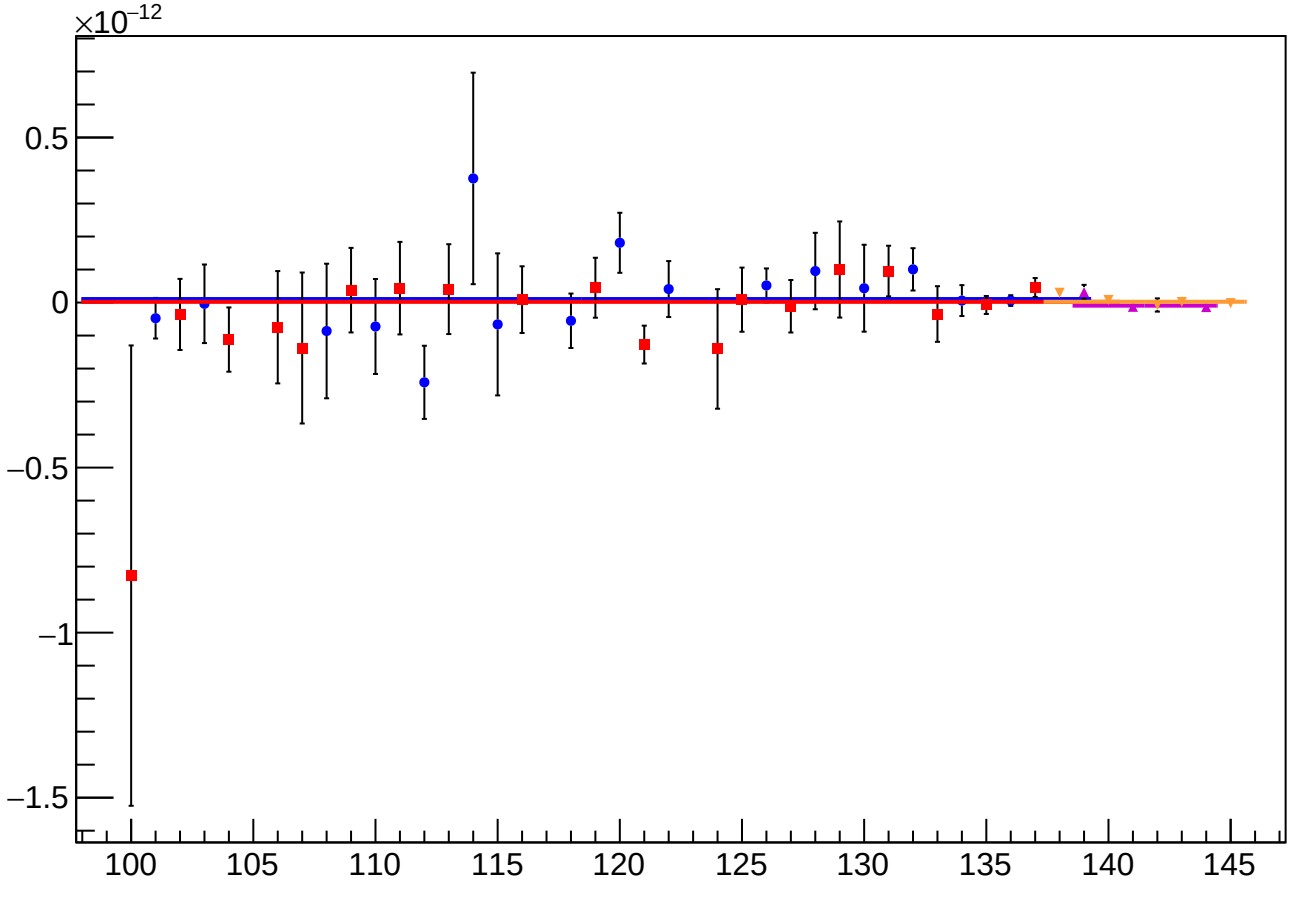
Left: 51.104+/-0.015 $\chi^2$/NDF: 187506.2/7

Right: 56.367+/-0.012 $\chi^2$/NDF: 4734093.5/34

In: 53.331+/-0.013 $\chi^2$/NDF:2290536.9/18

Out: 55.272+/-0.013 $\chi^2$/NDF:2697936.9/23

All: 54.326+/-0.009 $\chi^2$/NDF: 4999651.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.9/2

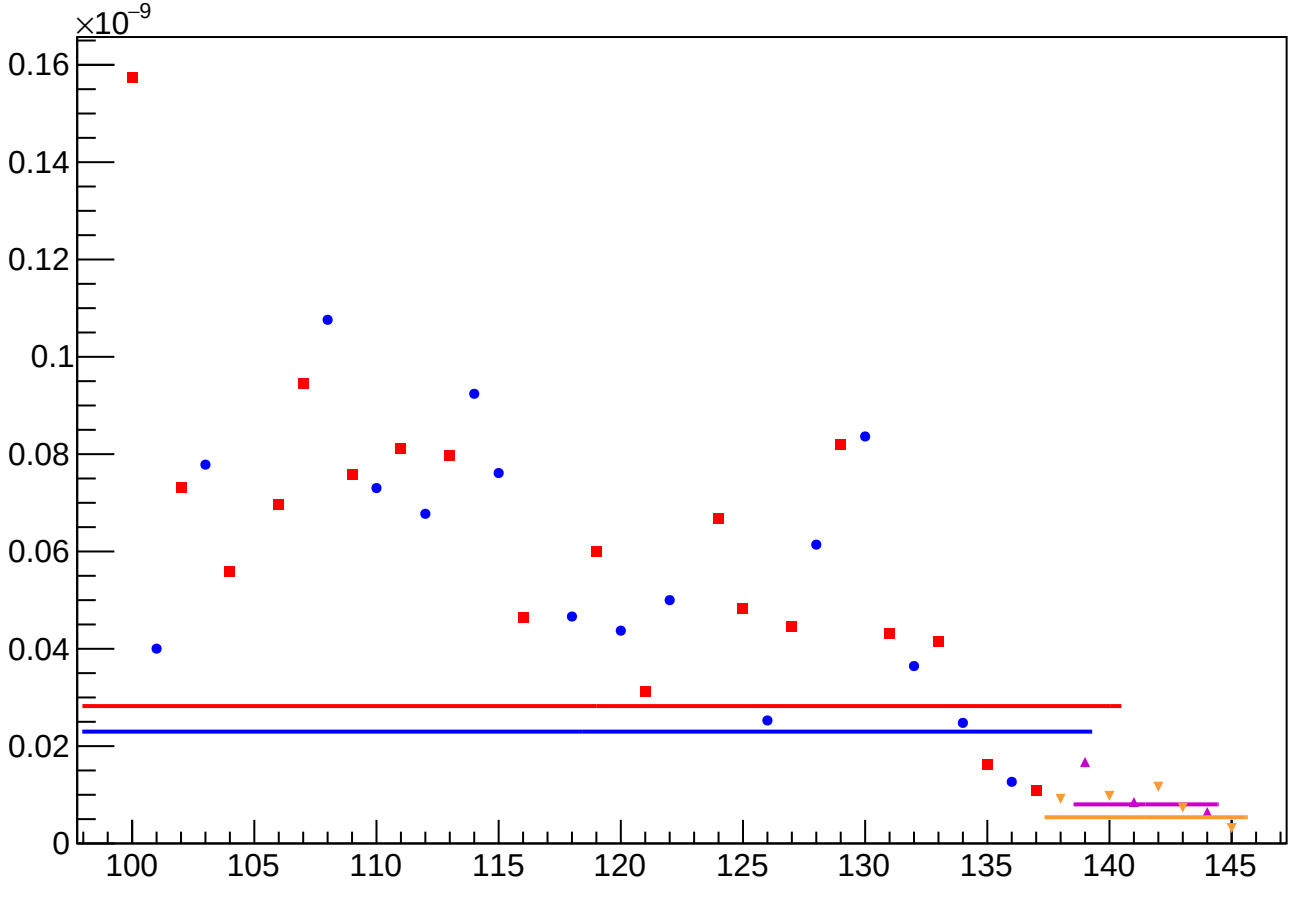
Left: -0.000+/-0.000 $\chi^2$/NDF: 11.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:19.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 42.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3731982.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1084490.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3820523.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:390821.3/2

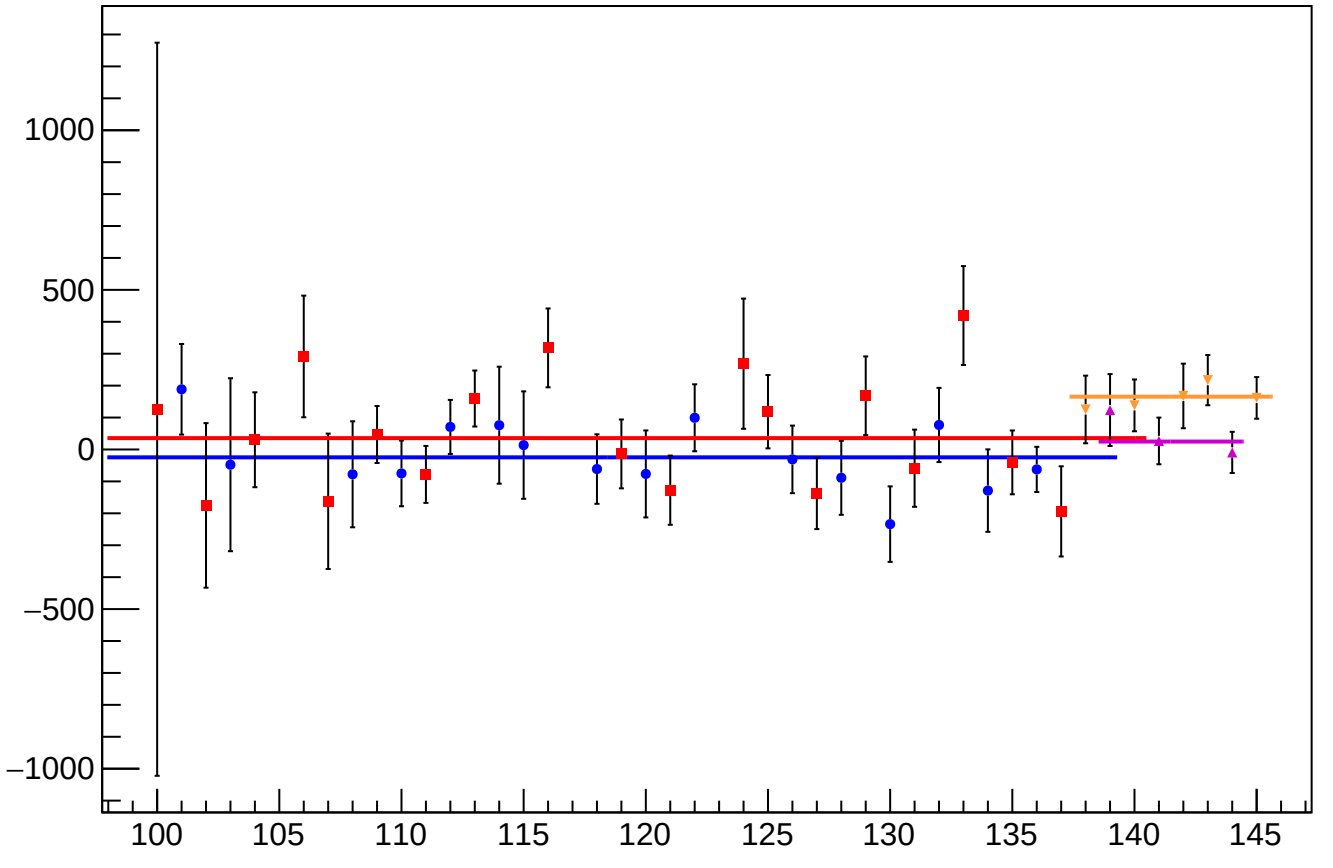
Left: 0.000+/-0.000 $\chi^2$/NDF: 1719518.9/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 7687404.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:6256749.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:8979165.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 15964461.2/42




Right In: -24.632+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 165.372+/-36.869 $\chi^2$/NDF:0.7/4

Right Out: 35.582+/-28.454 $\chi^2$/NDF: 30.1/18

Left In: 24.768+/-44.424 $\chi^2$/NDF:1.0/2

Left: 108.025+/-28.371 $\chi^2$/NDF: 7.7/7

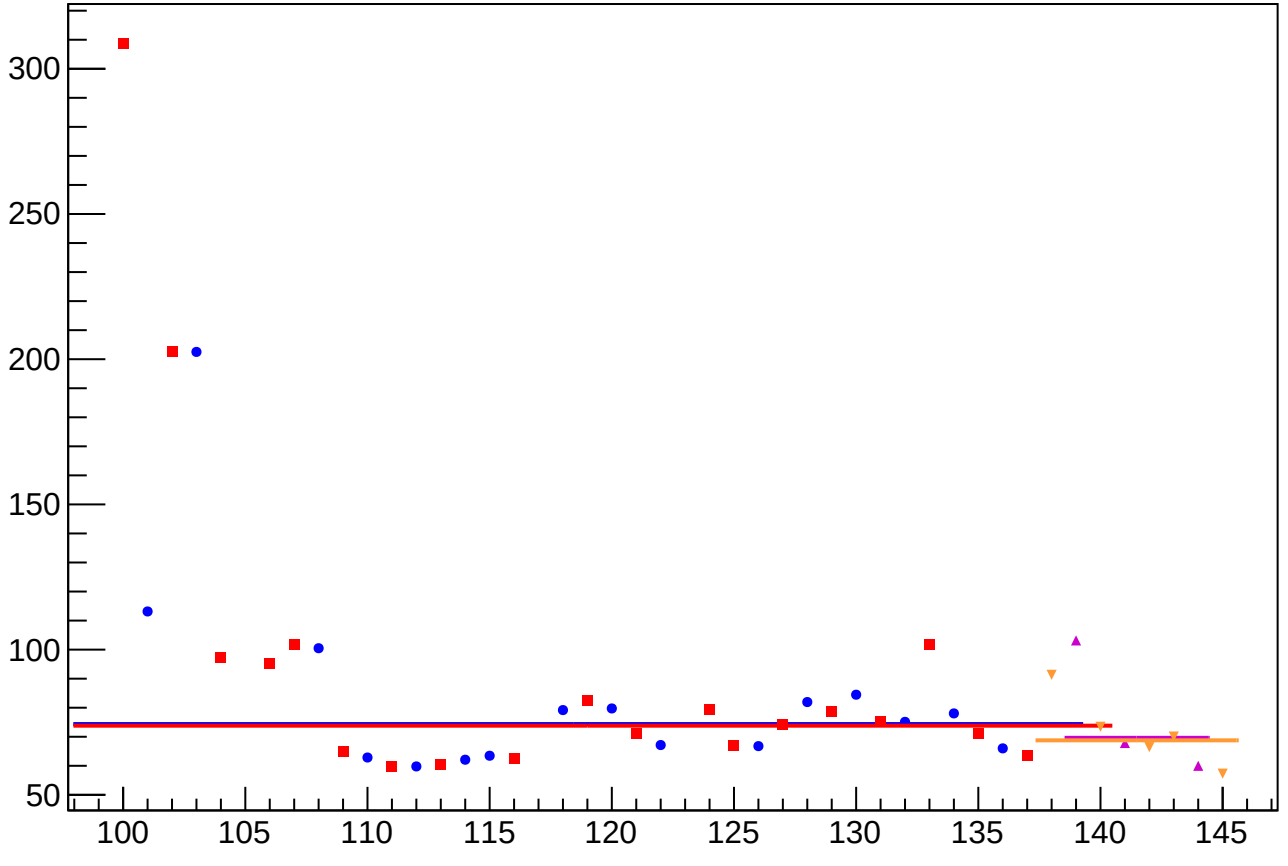
Right: 5.956+/-20.280 $\chi^2$/NDF: 43.3/34

In: -9.933+/-24.232 $\chi^2$/NDF:12.9/18

Out: 84.030+/-22.526 $\chi^2$/NDF:38.5/23

All: 40.473+/-16.499 $\chi^2$/NDF: 59.5/42

# reg_asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827583.1/15

Left Out: 68.768+/-0.026 $\chi^2$/NDF:160808.4/4

Right Out: 73.815+/-0.020 $\chi^2$/NDF: 931949.0/18

Left In: 69.628+/-0.031 $\chi^2$/NDF:223494.6/2

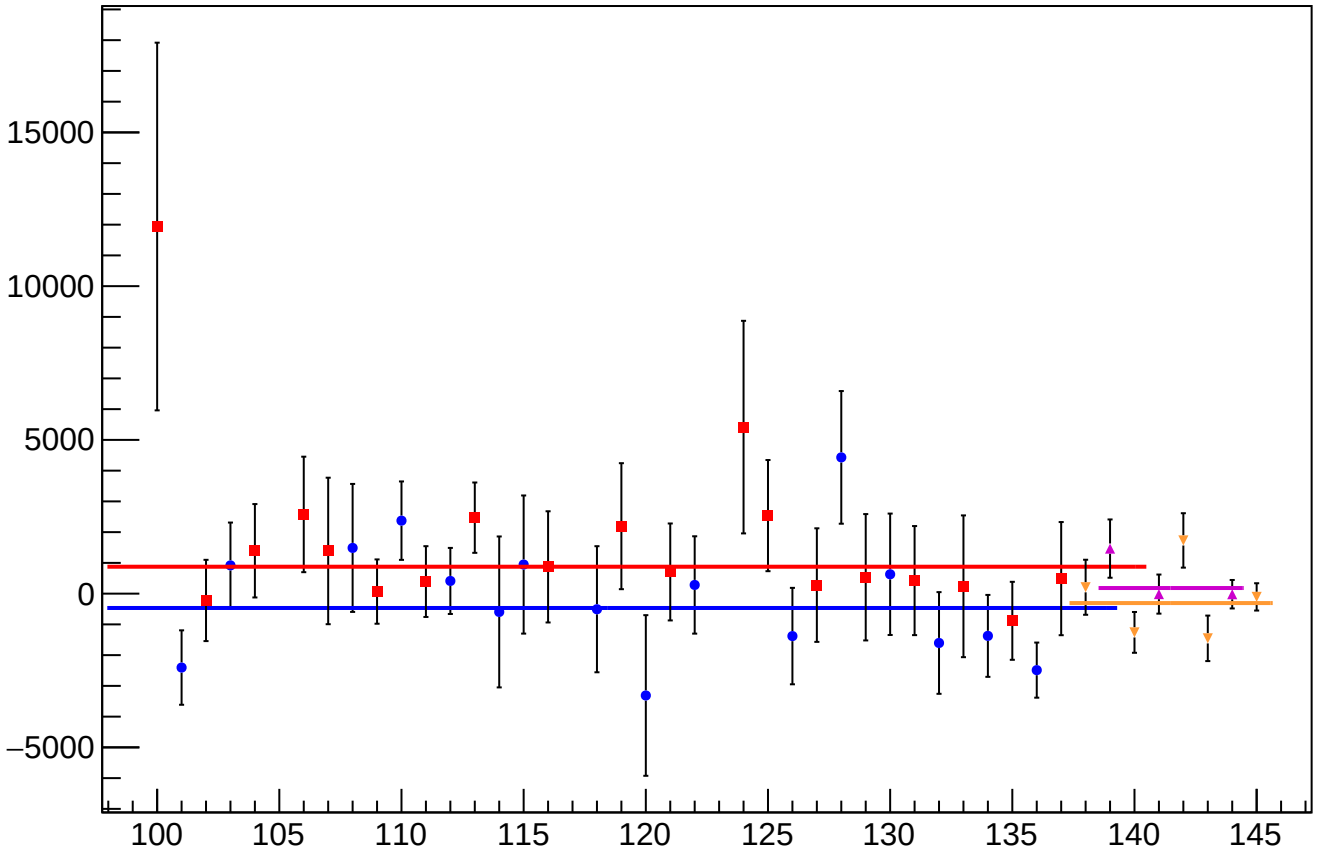
Left: 69.119+/-0.020 $\chi^2$/NDF: 384747.2/7

Right: 74.088+/-0.014 $\chi^2$/NDF: 1759905.2/34

In: 72.958+/-0.017 $\chi^2$/NDF:1067076.8/18

Out: 71.931+/-0.016 $\chi^2$/NDF:1116244.8/23

All: 72.407+/-0.012 $\chi^2$/NDF: 2185250.2/42




Right In: -466.524+/-375.030 $\chi^2$/NDF: 23.7/15

Left Out: -306.506+/-292.397 $\chi^2$/NDF:10.3/4

Right Out: 875.351+/-372.239 $\chi^2$/NDF: 13.1/18

Left In: 182.503+/-348.057 $\chi^2$/NDF:2.1/2

Left: -104.181+/-223.880 $\chi^2$/NDF: 13.6/7

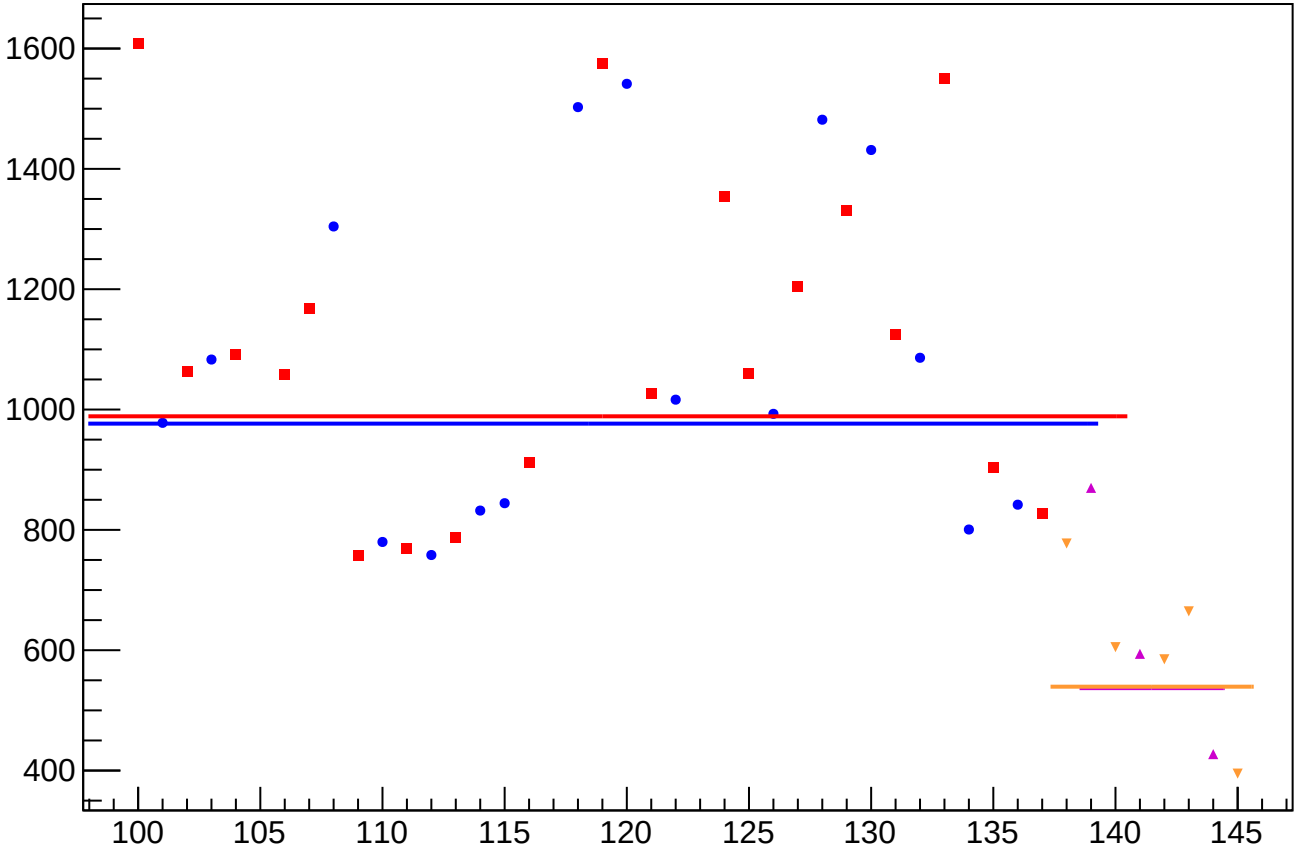
Right: 209.426+/-264.194 $\chi^2$/NDF: 43.2/34

In: -117.833+/-255.117 $\chi^2$/NDF:27.4/18

Out: 144.467+/-229.940 $\chi^2$/NDF:29.6/23

All: 26.895+/-170.801 $\chi^2$/NDF: 57.6/42

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: 539.387+/-0.207 $\chi^2$/NDF:435401.9/4

Right Out: 988.763+/-0.263 $\chi^2$/NDF: 715703.4/18

Left In: 536.983+/-0.246 $\chi^2$/NDF:375018.4/2

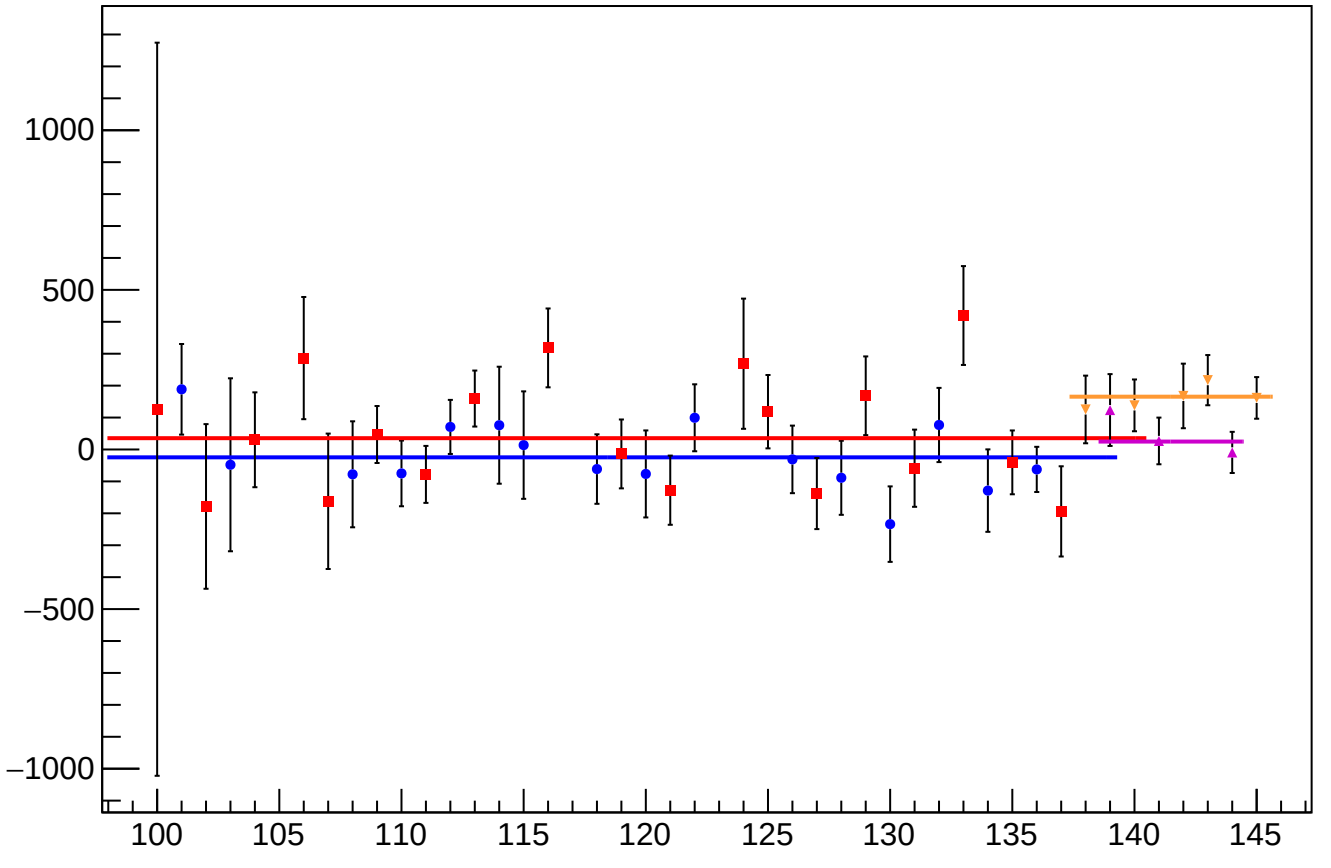
Left: 538.392+/-0.158 $\chi^2$/NDF: 810476.2/7

Right: 982.718+/-0.187 $\chi^2$/NDF: 1453371.3/34

In: 740.407+/-0.180 $\chi^2$/NDF:2587973.5/18

Out: 710.860+/-0.163 $\chi^2$/NDF:2953671.0/23

All: 724.104+/-0.121 $\chi^2$/NDF: 5556447.5/42




Right In: -24.640+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 165.375+/-36.869 $\chi^2$/NDF:0.7/4

Right Out: 35.383+/-28.457 $\chi^2$/NDF: 30.0/18

Left In: 24.765+/-44.424 $\chi^2$/NDF:1.0/2

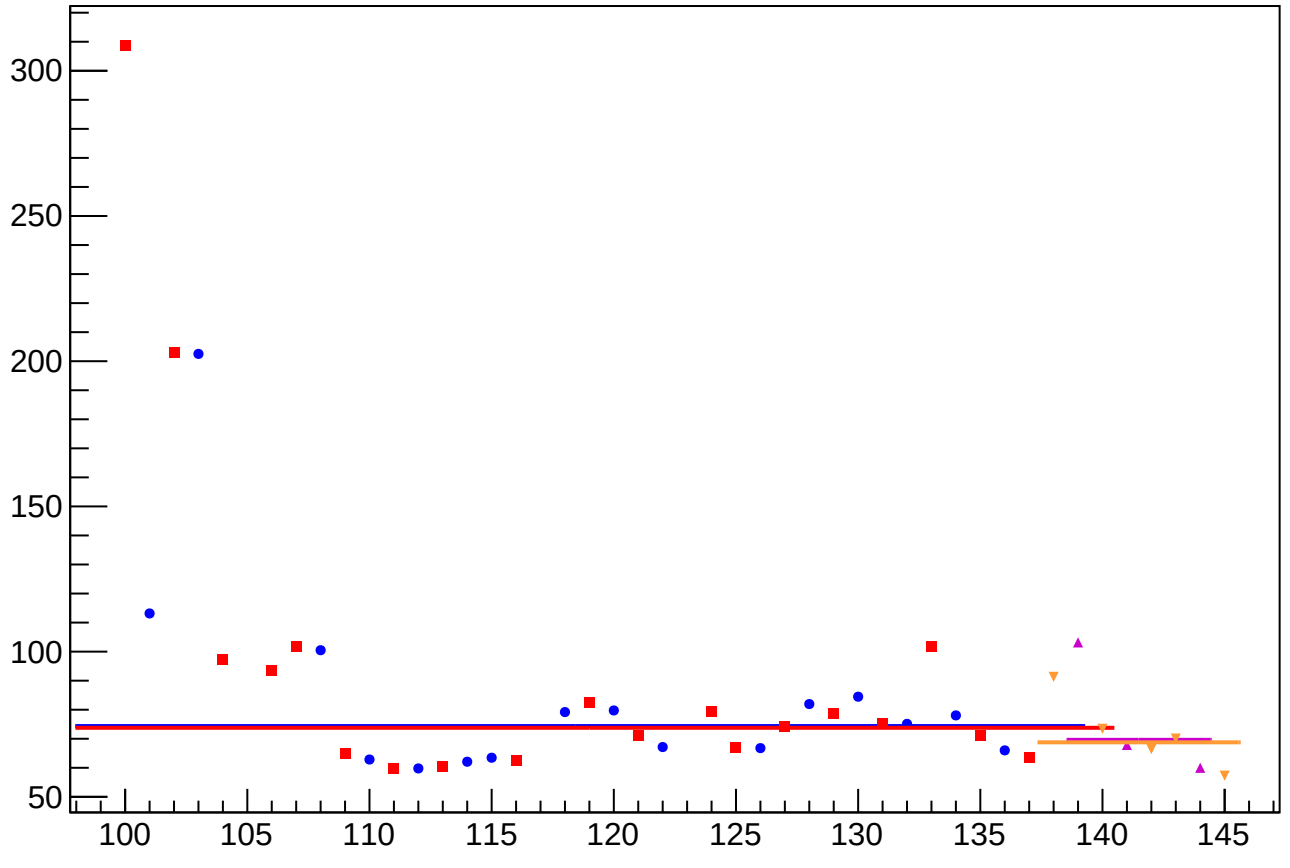
Left: 108.025+/-28.371 $\chi^2$/NDF: 7.7/7

Right: 5.848+/-20.281 $\chi^2$/NDF: 43.2/34

In: -9.940+/-24.232 $\chi^2$/NDF:12.9/18

Out: 83.913+/-22.527 $\chi^2$/NDF:38.5/23

All: 40.404+/-16.499 $\chi^2$/NDF: 59.5/42




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827585.2/15

Left Out: 68.768+/-0.026 $\chi^2$/NDF:160808.4/4

Right Out: 73.773+/-0.020 $\chi^2$/NDF: 928163.8/18

Left In: 69.628+/-0.031 $\chi^2$/NDF:223494.6/2

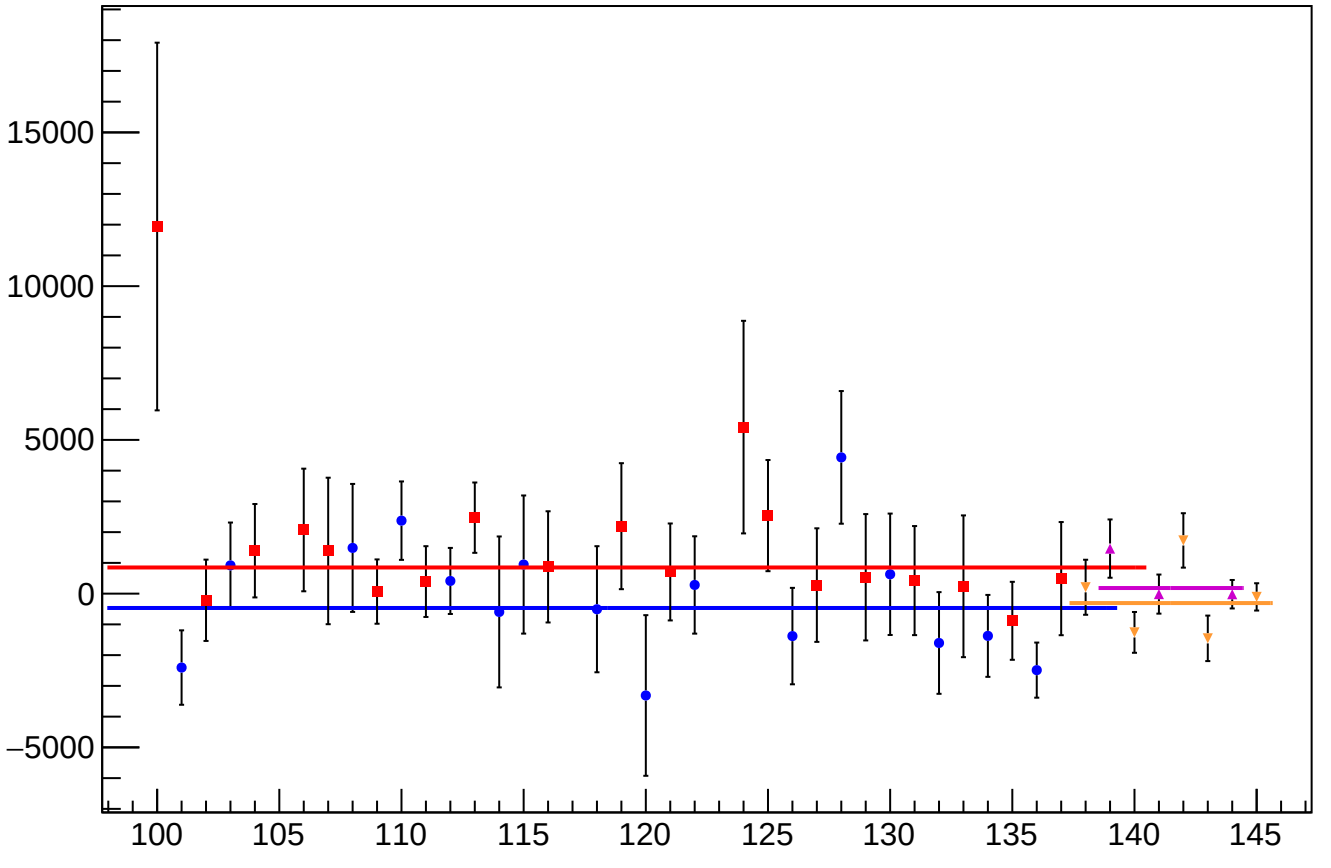
Left: 69.119+/-0.020 $\chi^2$/NDF: 384747.2/7

Right: 74.066+/-0.014 $\chi^2$/NDF: 1756180.6/34

In: 72.958+/-0.017 $\chi^2$/NDF:1067078.8/18

Out: 71.904+/-0.016 $\chi^2$/NDF:1112069.8/23

All: 72.393+/-0.012 $\chi^2$/NDF: 2181177.9/42




Right In: -466.511+/-375.033 $\chi^2$/NDF: 23.7/15

Left Out: -306.499+/-292.397 $\chi^2$/NDF:10.3/4

Right Out: 850.757+/-373.092 $\chi^2$/NDF: 12.6/18

Left In: 182.500+/-348.057 $\chi^2$/NDF:2.1/2

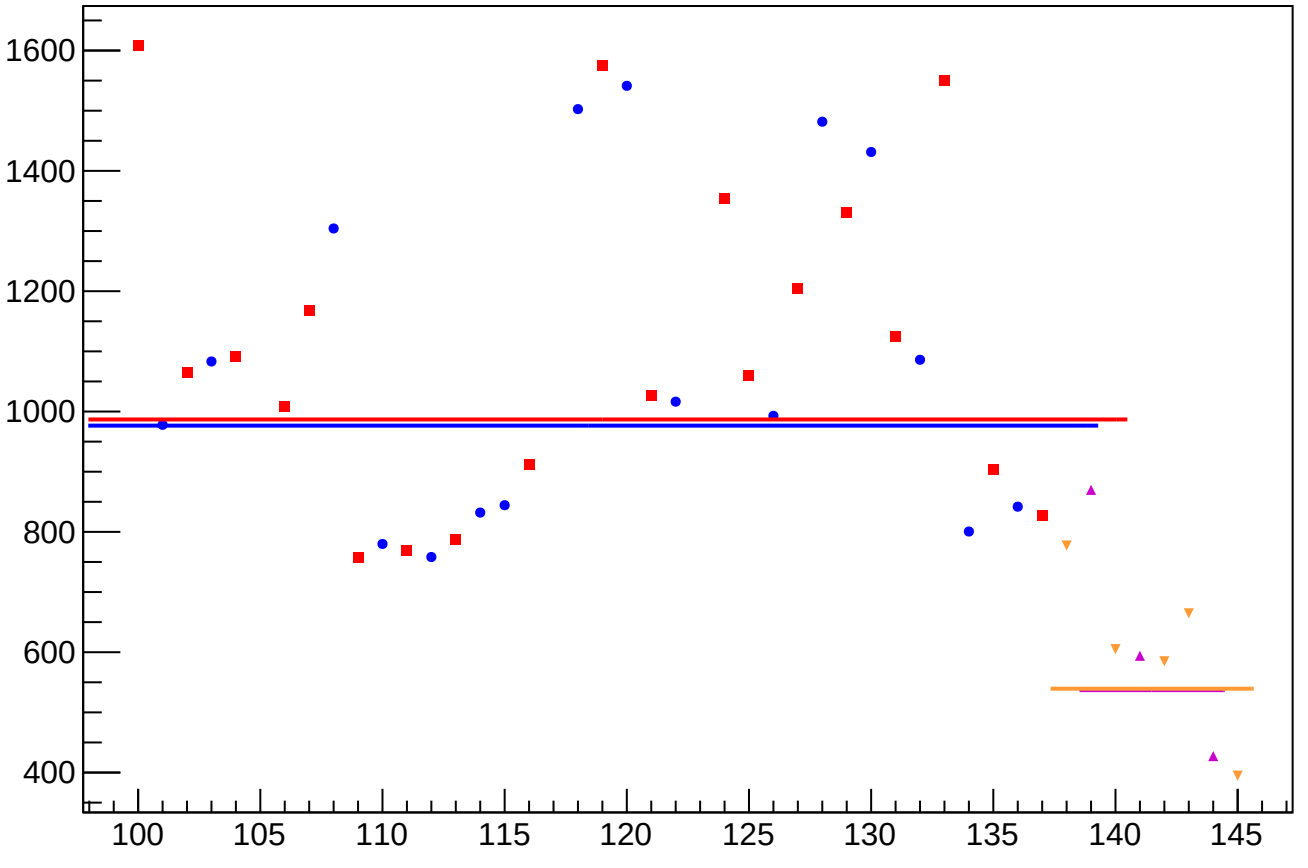
Left: -104.179+/-223.880 $\chi^2$/NDF: 13.6/7

Right: 195.541+/-264.500 $\chi^2$/NDF: 42.5/34

In: -117.826+/-255.118 $\chi^2$/NDF:27.4/18

Out: 133.836+/-230.141 $\chi^2$/NDF:28.8/23

All: 20.924+/-170.884 $\chi^2$/NDF: 56.8/42




Right In: 976.589+/-0.265 $\chi^2$/NDF: 736628.5/15

Left Out: 539.387+/-0.207 $\chi^2$/NDF:435400.4/4

Right Out: 986.823+/-0.264 $\chi^2$/NDF: 713316.0/18

Left In: 536.984+/-0.246 $\chi^2$/NDF:375018.9/2

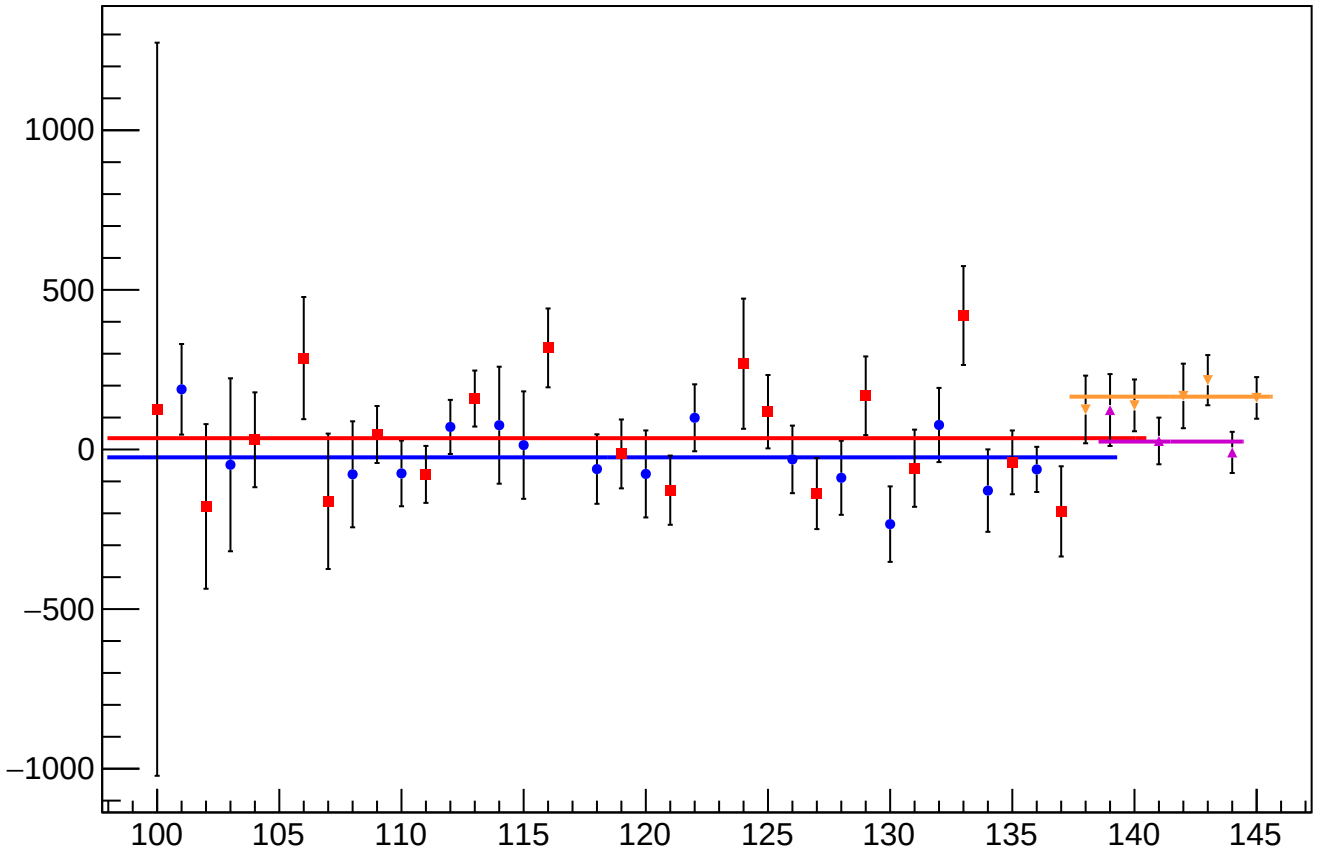
Left: 538.392+/-0.158 $\chi^2$/NDF: 810475.1/7

Right: 981.733+/-0.187 $\chi^2$/NDF: 1450693.2/34

In: 740.409+/-0.180 $\chi^2$/NDF:2588023.6/18

Out: 709.636+/-0.163 $\chi^2$/NDF:2930697.3/23

All: 723.443+/-0.121 $\chi^2$/NDF: 5534764.4/42




Right In: -24.640+/-28.913 $\chi^2$/NDF: 11.0/15

Left Out: 165.375+/-36.869 $\chi^2$/NDF:0.7/4

Right Out: 35.383+/-28.457 $\chi^2$/NDF: 30.0/18

Left In: 24.765+/-44.424 $\chi^2$/NDF:1.0/2

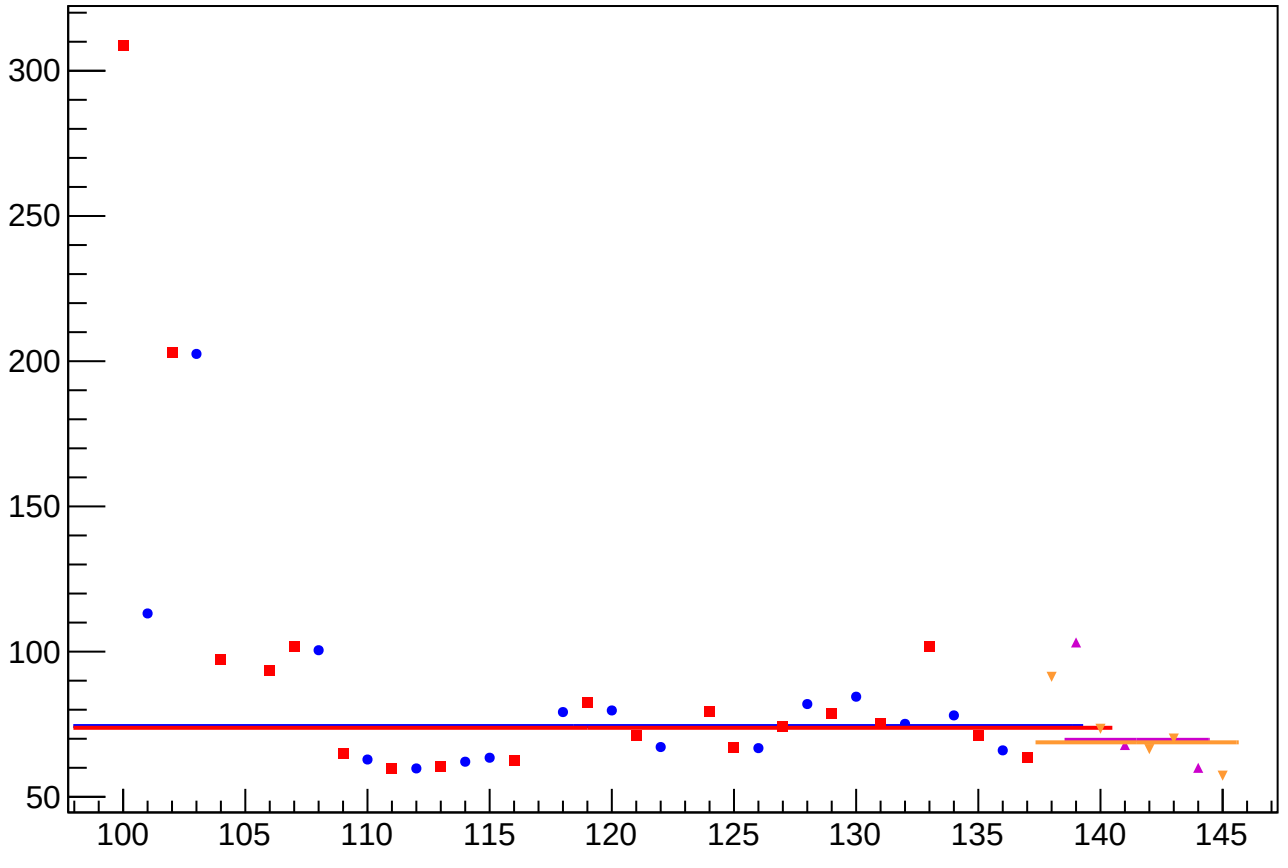
Left: 108.025+/-28.371 $\chi^2$/NDF: 7.7/7

Right: 5.848+/-20.281 $\chi^2$/NDF: 43.2/34

In: -9.940+/-24.232 $\chi^2$/NDF:12.9/18

Out: 83.913+/-22.527 $\chi^2$/NDF:38.5/23

All: 40.404+/-16.499 $\chi^2$/NDF: 59.5/42




Right In: 74.369+/-0.020 $\chi^2$/NDF: 827585.2/15

Left Out: 68.768+/-0.026 $\chi^2$/NDF:160808.4/4

Right Out: 73.773+/-0.020 $\chi^2$/NDF: 928163.8/18

Left In: 69.628+/-0.031 $\chi^2$/NDF:223494.6/2

Left: 69.119+/-0.020 $\chi^2$/NDF: 384747.2/7

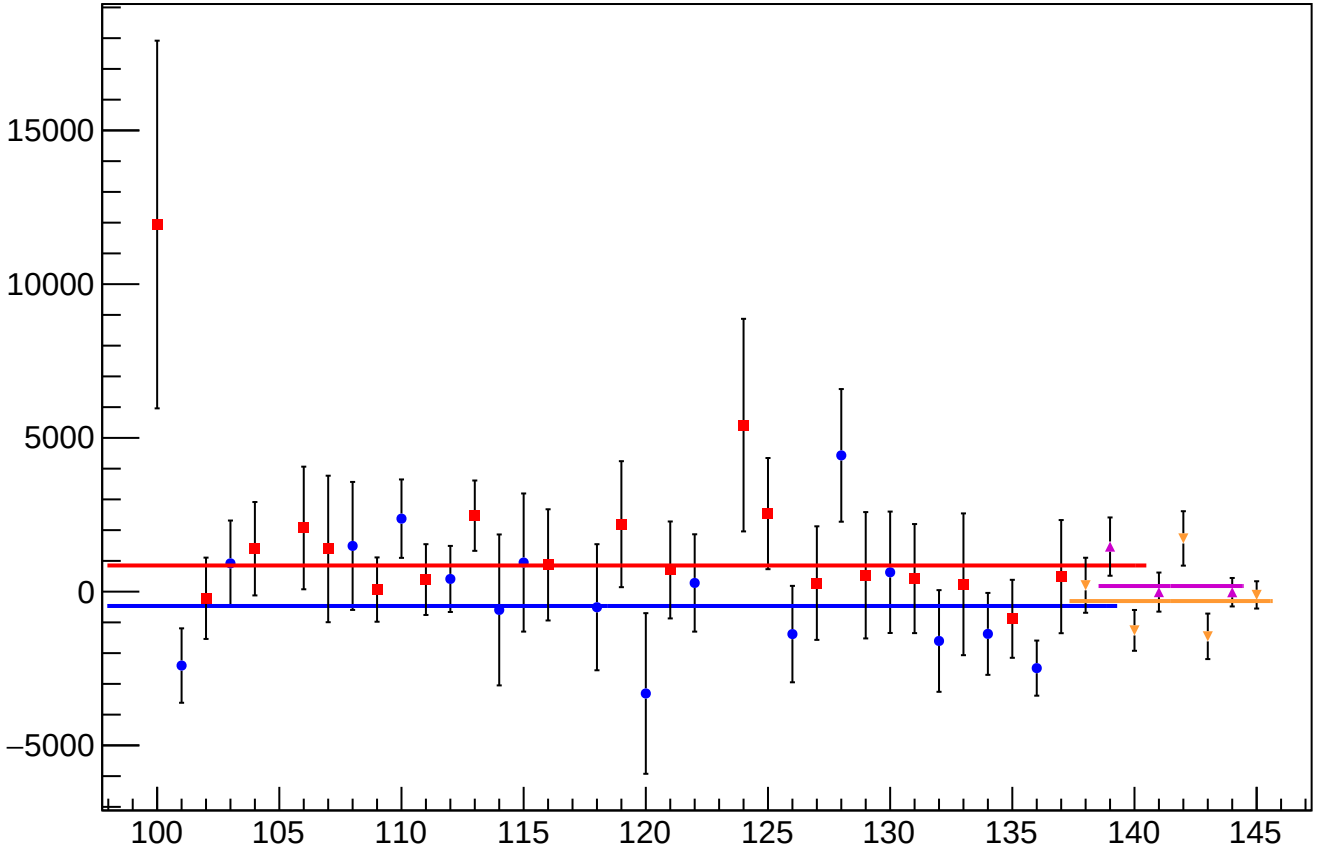
Right: 74.066+/-0.014 $\chi^2$/NDF: 1756180.6/34

In: 72.958+/-0.017 $\chi^2$/NDF:1067078.8/18

Out: 71.904+/-0.016 $\chi^2$/NDF:1112069.8/23

All: 72.393+/-0.012 $\chi^2$/NDF: 2181177.9/42

asym_sam_37_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -466.511+/-375.033 $\chi^2$/NDF: 23.7/15

Left Out: -306.499+/-292.397 $\chi^2$/NDF:10.3/4

Right Out: 850.757+/-373.092 $\chi^2$/NDF: 12.6/18

Left In: 182.500+/-348.057 $\chi^2$/NDF:2.1/2

Left: -104.179+/-223.880 $\chi^2$/NDF: 13.6/7

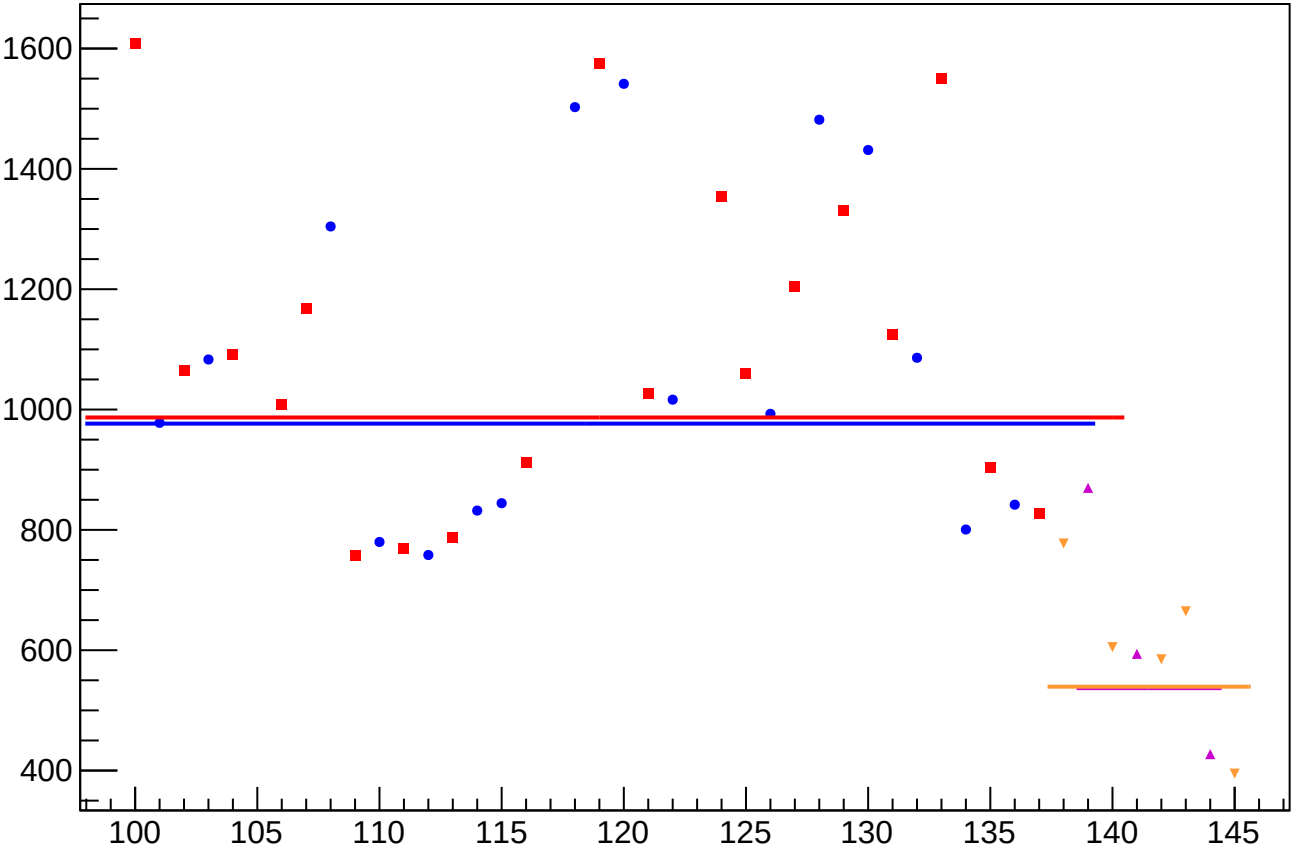
Right: 195.541+/-264.500 $\chi^2$/NDF: 42.5/34

In: -117.826+/-255.118 $\chi^2$/NDF:27.4/18

Out: 133.836+/-230.141 $\chi^2$/NDF:28.8/23

All: 20.924+/-170.884 $\chi^2$/NDF: 56.8/42

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: 539.387+/-0.207 $\chi^2$/NDF:435400.4/4

Right Out: 986.823+/-0.264 $\chi^2$/NDF: 713316.0/18

Left In: 536.984+/-0.246 $\chi^2$/NDF:375018.9/2

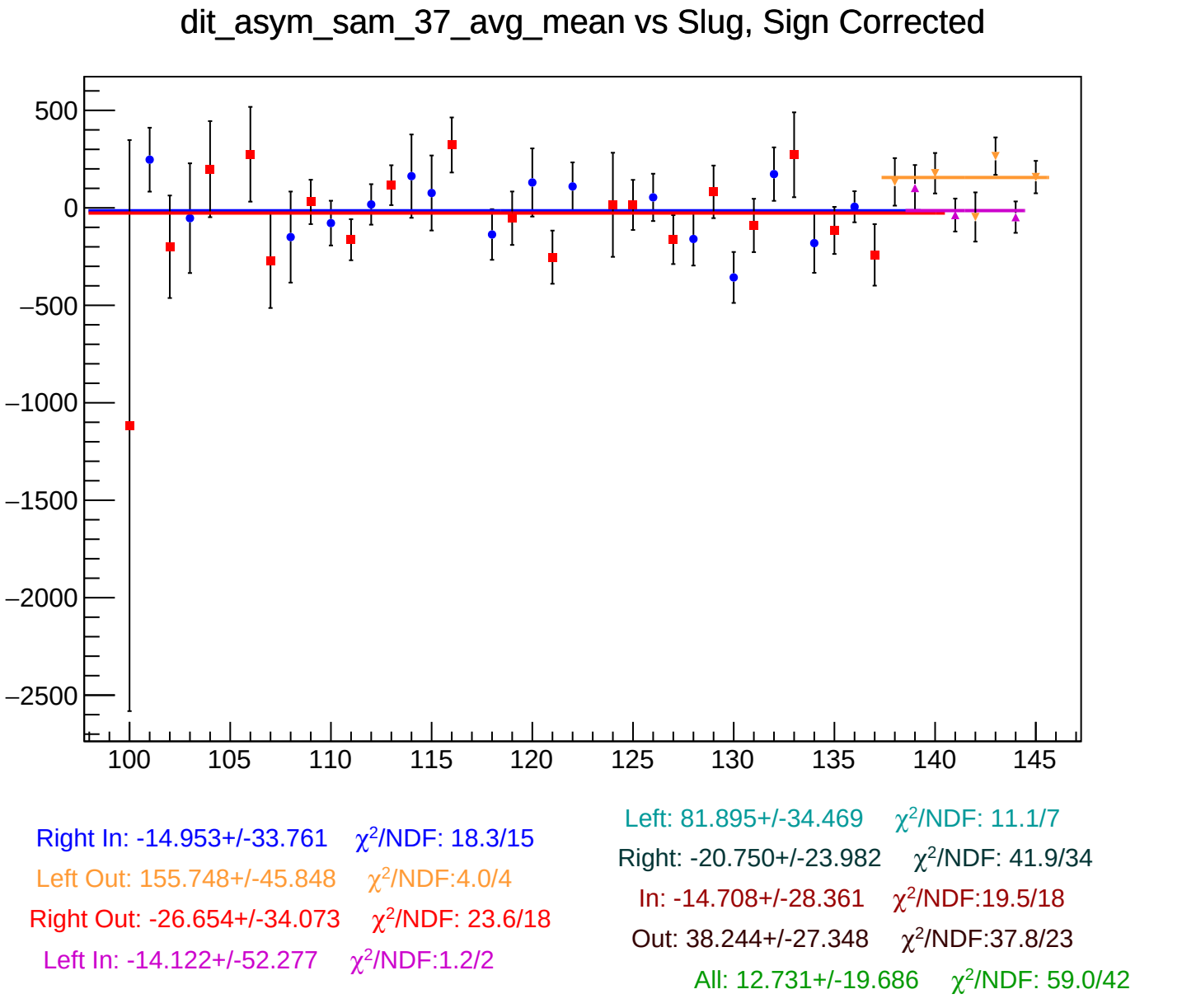
Left: 538.392+/-0.158 $\chi^2$/NDF: 810475.1/7

Right: 981.733+/-0.187 $\chi^2$/NDF: 1450693.2/34

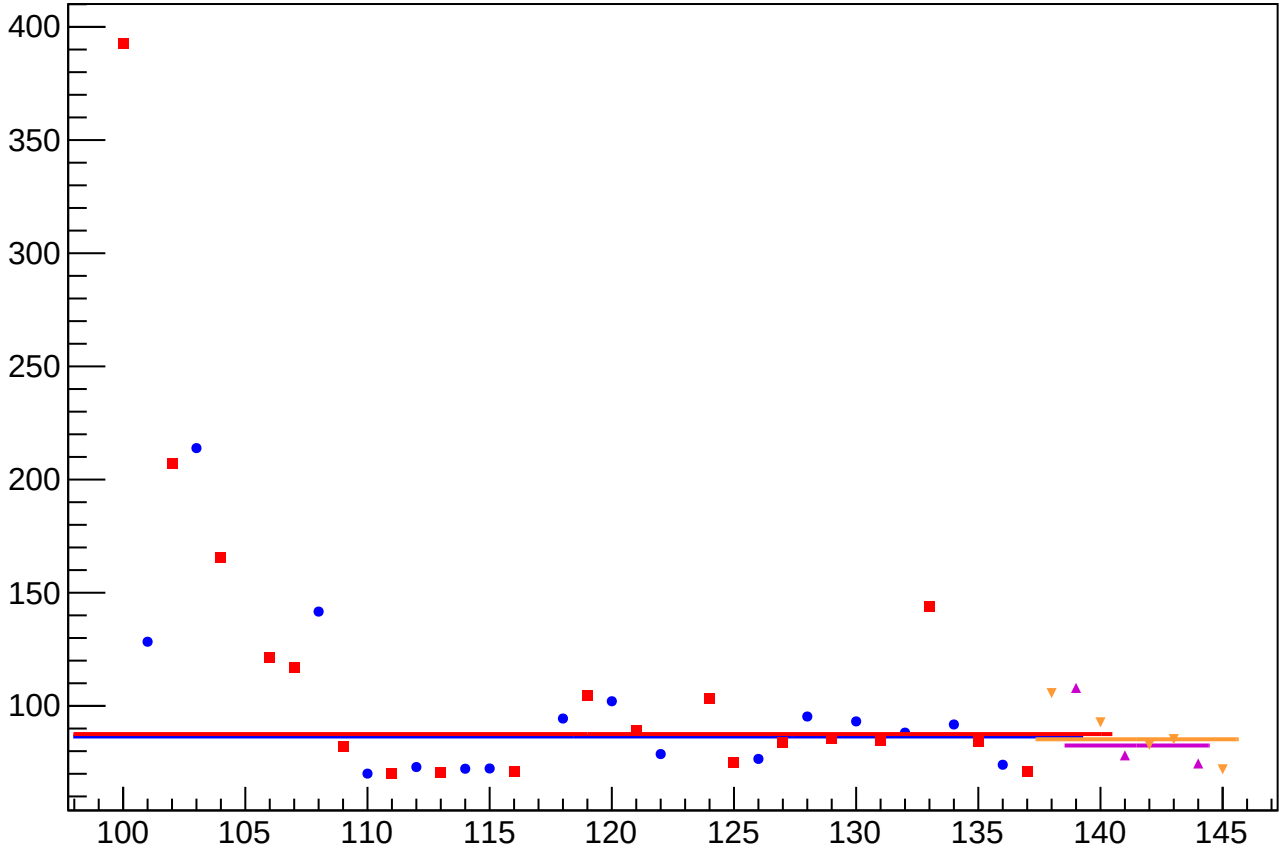
In: 740.409+/-0.180 $\chi^2$/NDF:2588023.6/18

Out: 709.636+/-0.163 $\chi^2$/NDF:2930697.3/23

All: 723.443+/-0.121 $\chi^2$/NDF: 5534764.4/42


dit_asym_sam_37_avg_mean vs Slug, Sign Corrected
500
0
−500
−1000
−1500
−2000
−2500
100
105
110
115
120
125
130
135
140
145
Right In: -14.953+/-33.761 χ²/NDF: 18.3/15
Left Out: 155.748+/-45.848 χ²/NDF:4.0/4
Right Out: -26.654+/-34.073 χ²/NDF: 23.6/18
Left In: -14.122+/-52.277 χ²/NDF:1.2/2
Left: 81.895+/-34.469 χ²/NDF: 11.1/7
Right: -20.750+/-23.982 χ²/NDF: 41.9/34
In: -14.708+/-28.361 χ²/NDF:19.5/18
Out: 38.244+/-27.348 χ²/NDF:37.8/23
All: 12.731+/-19.686 χ²/NDF: 59.0/42

# dit_asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 86.489+/-0.024 $\chi^2$/NDF: 856257.9/15

Left Out: 85.257+/-0.032 $\chi^2$/NDF:118040.9/4

Right Out: 87.555+/-0.024 $\chi^2$/NDF: 1129794.0/18

Left In: 82.503+/-0.037 $\chi^2$/NDF:117829.1/2

Left: 84.060+/-0.024 $\chi^2$/NDF: 239006.3/7

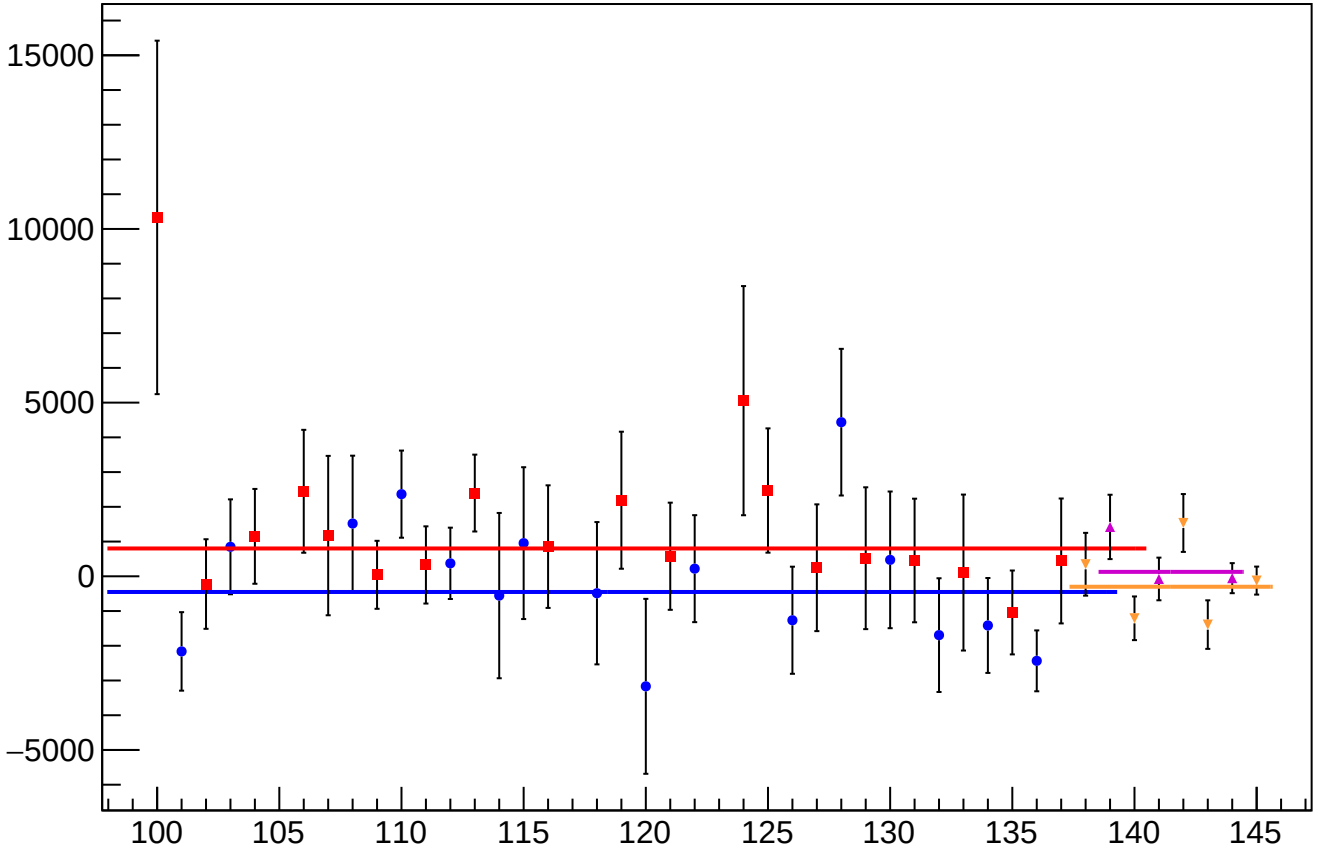
Right: 87.017+/-0.017 $\chi^2$/NDF: 1987038.9/34

In: 85.316+/-0.020 $\chi^2$/NDF:982291.6/18

Out: 86.737+/-0.019 $\chi^2$/NDF:1251071.4/23

All: 86.052+/-0.014 $\chi^2$/NDF: 2235965.1/42

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: -300.832+/-273.244 $\chi^2$/NDF:10.1/4

Right Out: 801.206+/-357.866 $\chi^2$/NDF: 13.6/18

Left In: 127.417+/-330.409 $\chi^2$/NDF:2.2/2

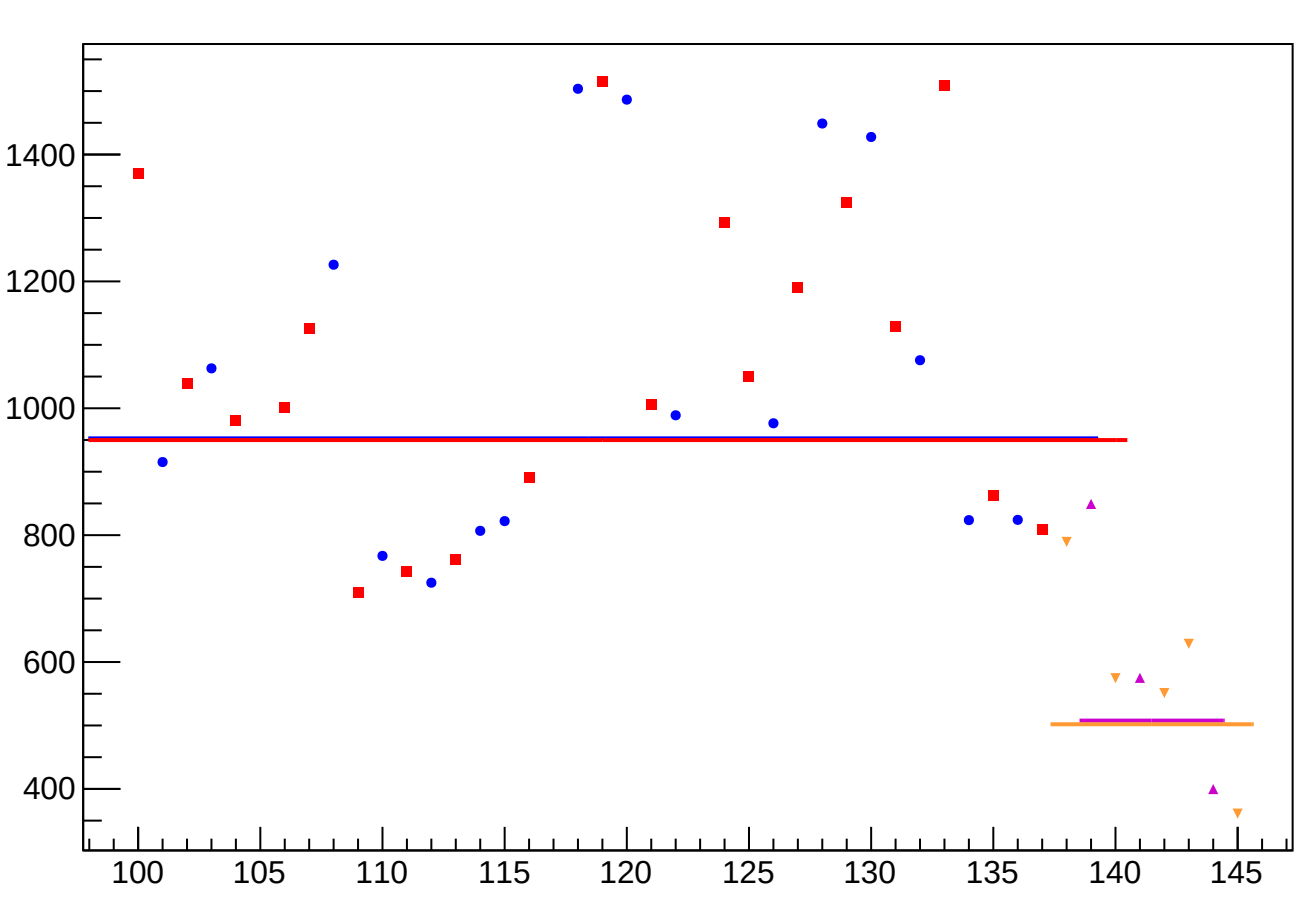
Left: -126.902+/-210.568 $\chi^2$/NDF: 13.3/7

Right: 188.311+/-255.742 $\chi^2$/NDF: 43.3/34

In: -132.788+/-245.136 $\chi^2$/NDF:27.3/18

Out: 105.030+/-217.176 $\chi^2$/NDF:29.7/23

All: 0.452+/-162.557 $\chi^2$/NDF: 57.6/42




Right In: 952.551+/-0.259 $\chi^2$/NDF: 746346.9/15

Left Out: 501.889+/-0.193 $\chi^2$/NDF:545907.1/4

Right Out: 949.891+/-0.253 $\chi^2$/NDF: 751675.2/18

Left In: 507.668+/-0.234 $\chi^2$/NDF:420530.9/2

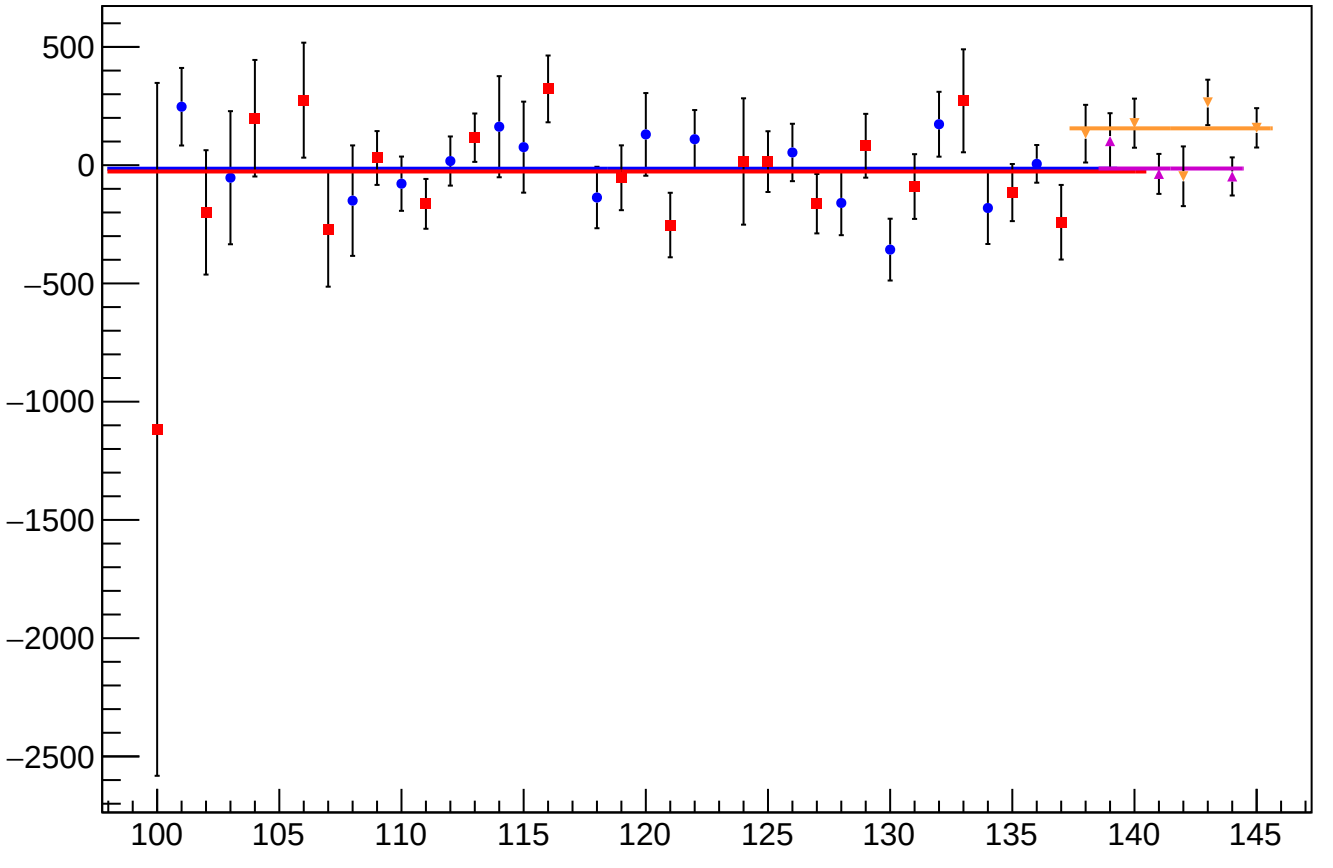
Left: 504.236+/-0.149 $\chi^2$/NDF: 966801.2/7

Right: 951.193+/-0.181 $\chi^2$/NDF: 1498076.1/34

In: 707.670+/-0.173 $\chi^2$/NDF:2796947.5/18

Out: 666.881+/-0.154 $\chi^2$/NDF:3277615.5/23

All: 684.818+/-0.115 $\chi^2$/NDF: 6105586.4/42




Right In: -14.954+/-33.761 $\chi^2$/NDF: 18.3/15

Left Out: 155.746+/-45.848 $\chi^2$/NDF:4.0/4

Right Out: -26.658+/-34.073 $\chi^2$/NDF: 23.6/18

Left In: -14.121+/-52.277 $\chi^2$/NDF:1.2/2

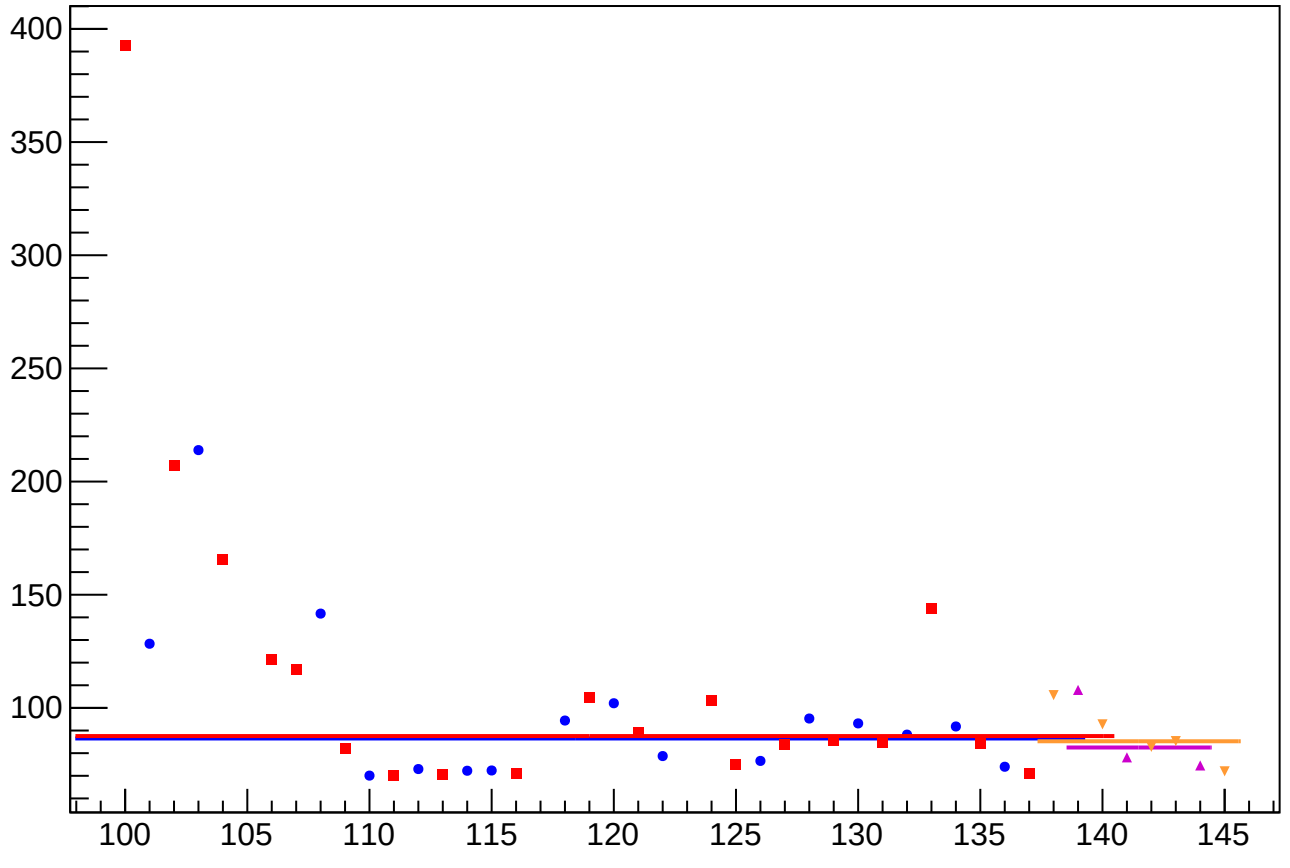
Left: 81.894+/-34.469 $\chi^2$/NDF: 11.1/7

Right: -20.752+/-23.982 $\chi^2$/NDF: 41.9/34

In: -14.708+/-28.361 $\chi^2$/NDF:19.5/18

Out: 38.241+/-27.348 $\chi^2$/NDF:37.8/23

All: 12.729+/-19.686 $\chi^2$/NDF: 59.0/42




Right In: 86.489+/-0.024 $\chi^2$/NDF: 856249.6/15

Left Out: 85.257+/-0.032 $\chi^2$/NDF:118038.7/4

Right Out: 87.555+/-0.024 $\chi^2$/NDF: 1129791.7/18

Left In: 82.503+/-0.037 $\chi^2$/NDF:117826.7/2

Left: 84.060+/-0.024 $\chi^2$/NDF: 239002.2/7

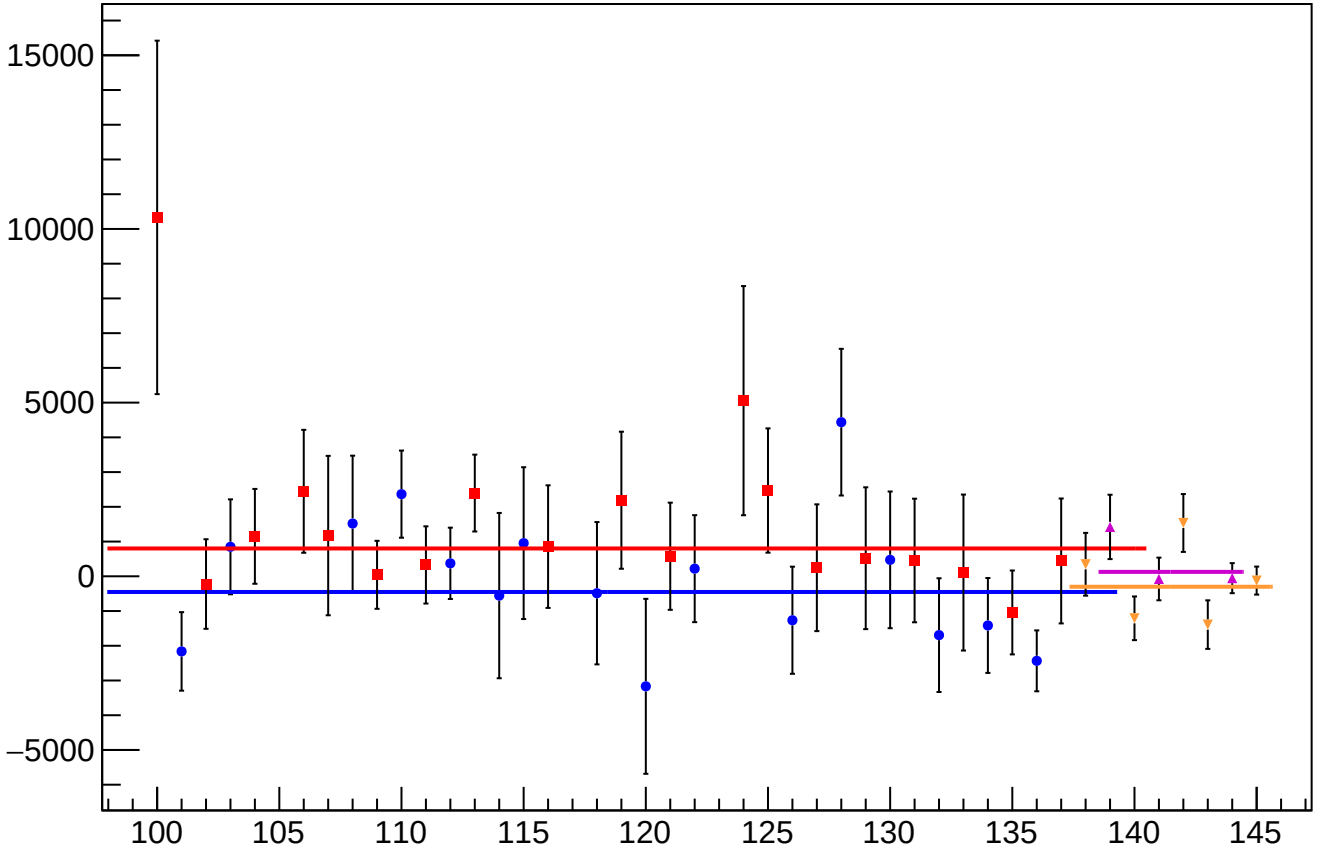
Right: 87.017+/-0.017 $\chi^2$/NDF: 1987028.5/34

In: 85.316+/-0.020 $\chi^2$/NDF:982281.4/18

Out: 86.737+/-0.019 $\chi^2$/NDF:1251066.8/23

All: 86.053+/-0.014 $\chi^2$/NDF: 2235950.8/42

asym_sam_37_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -451.378+/-365.605 $\chi^2$/NDF: 23.7/15

Left Out: -300.835+/-273.243 $\chi^2$/NDF:10.1/4

Right Out: 801.205+/-357.865 $\chi^2$/NDF: 13.6/18

Left In: 127.417+/-330.409 $\chi^2$/NDF:2.2/2

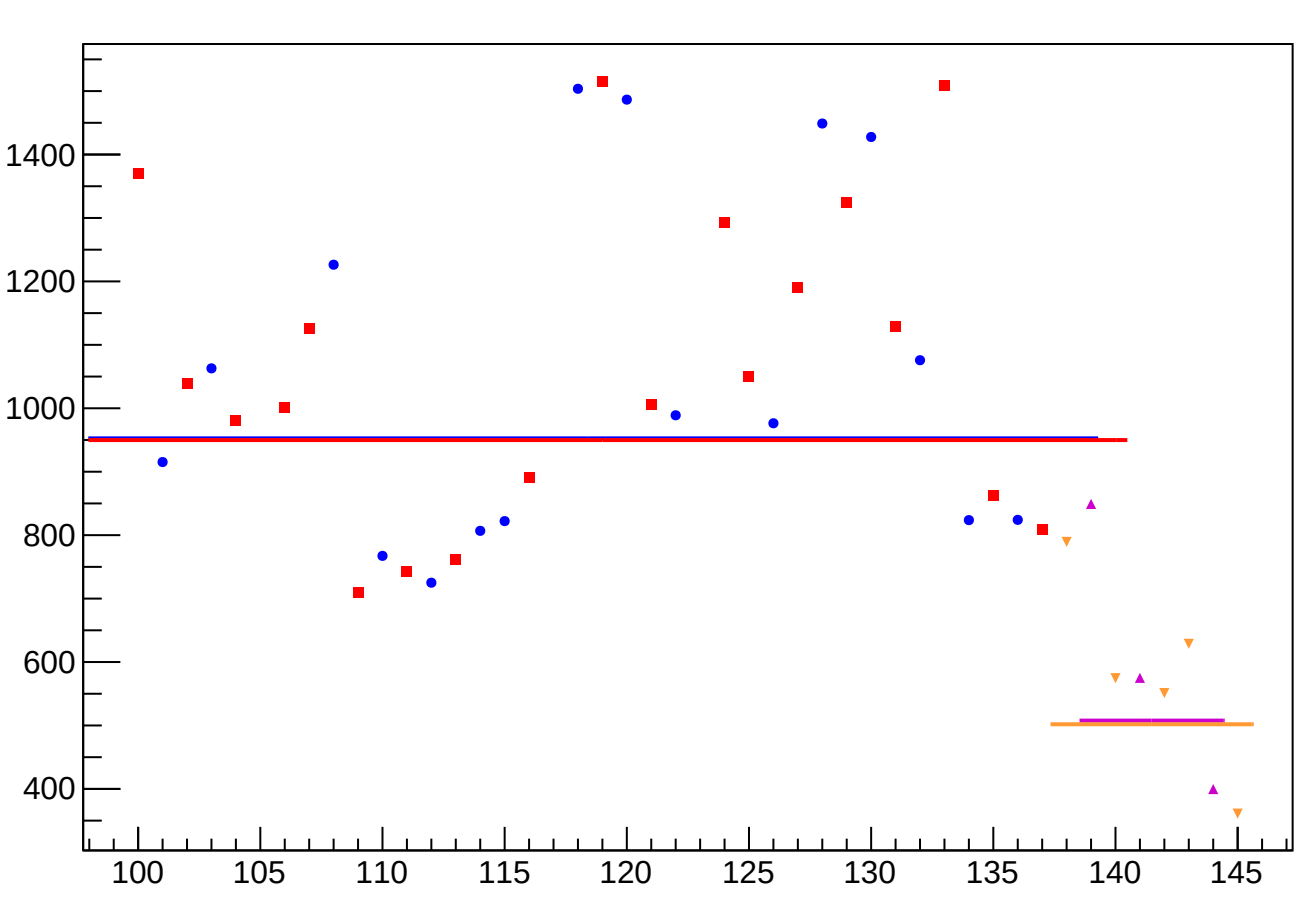
Left: -126.904+/-210.567 $\chi^2$/NDF: 13.3/7

Right: 188.312+/-255.741 $\chi^2$/NDF: 43.3/34

In: -132.787+/-245.136 $\chi^2$/NDF:27.3/18

Out: 105.028+/-217.175 $\chi^2$/NDF:29.7/23

All: 0.451+/-162.557 $\chi^2$/NDF: 57.6/42




Right In: 952.549+/-0.259 $\chi^2$/NDF: 746349.8/15

Left Out: 501.888+/-0.193 $\chi^2$/NDF:545908.5/4

Right Out: 949.890+/-0.253 $\chi^2$/NDF: 751674.5/18

Left In: 507.667+/-0.234 $\chi^2$/NDF:420532.5/2

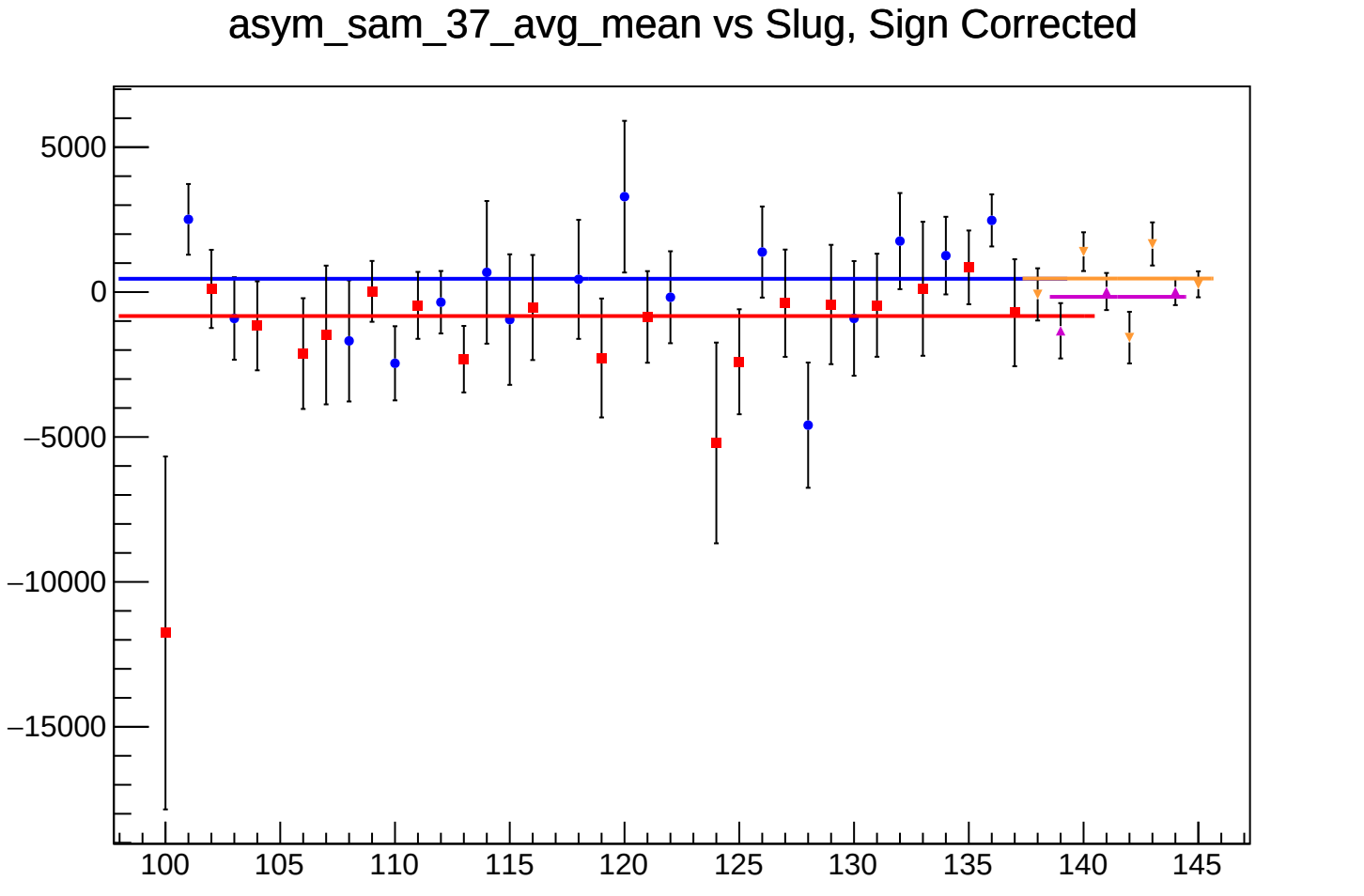
Left: 504.235+/-0.149 $\chi^2$/NDF: 966804.3/7

Right: 951.191+/-0.181 $\chi^2$/NDF: 1498078.4/34

In: 707.669+/-0.173 $\chi^2$/NDF:2796947.1/18

Out: 666.880+/-0.154 $\chi^2$/NDF:3277612.9/23

All: 684.817+/-0.115 $\chi^2$/NDF: 6105583.6/42




Right In: 459.137+/-376.873 $\chi^2$/NDF: 24.6/15

Left Out: 467.432+/-294.962 $\chi^2$/NDF:10.3/4

Right Out: -826.531+/-374.244 $\chi^2$/NDF: 11.7/18

Left In: -164.190+/-351.118 $\chi^2$/NDF:1.7/2

Left: 206.109+/-225.847 $\chi^2$/NDF: 13.9/7

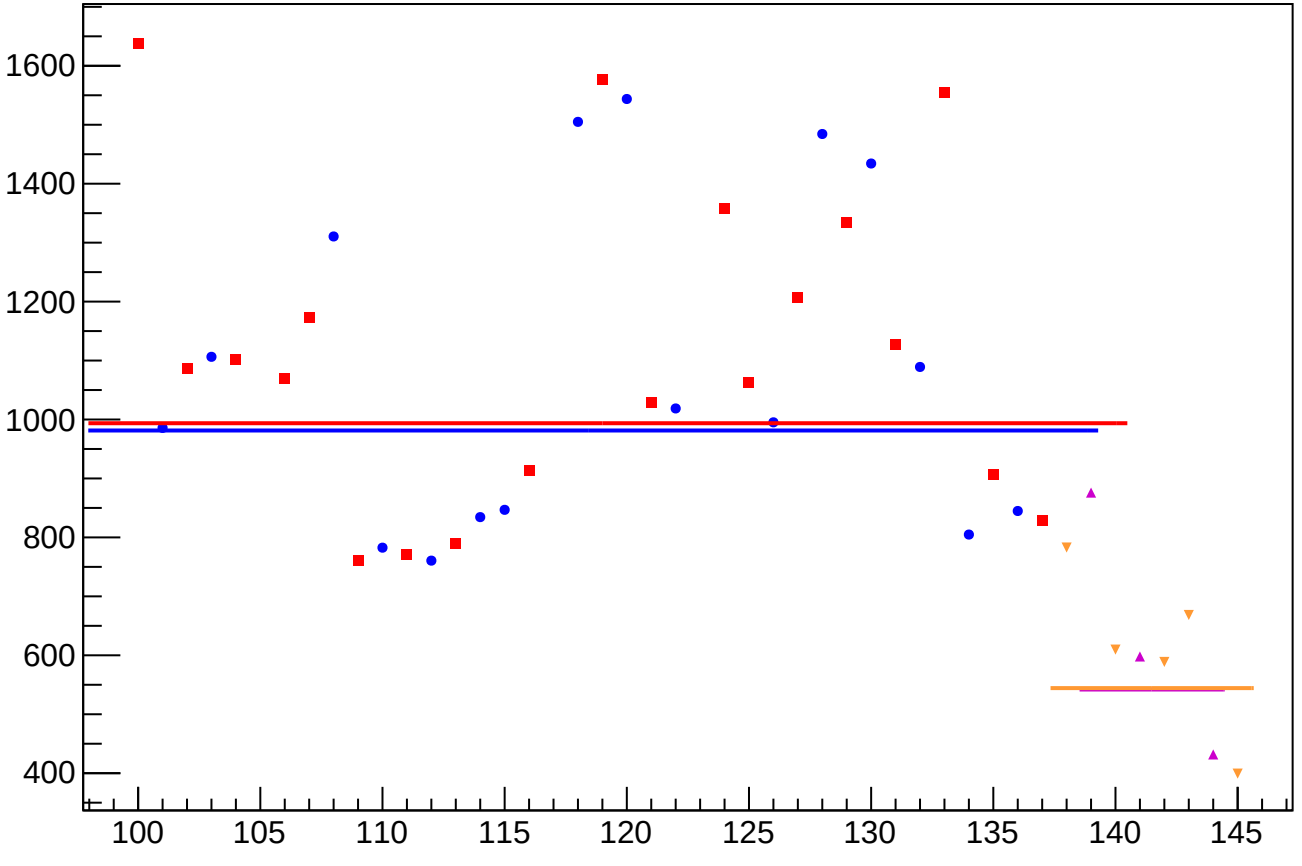
Right: -188.198+/-265.555 $\chi^2$/NDF: 42.1/34

In: 125.449+/-256.901 $\chi^2$/NDF:27.8/18

Out: -28.373+/-231.659 $\chi^2$/NDF:29.3/23

All: 40.611+/-172.042 $\chi^2$/NDF: 57.3/42

# asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 981.349+/-0.266 $\chi^2$/NDF: 737627.4/15

Left Out: 544.345+/-0.209 $\chi^2$/NDF:428397.6/4

Right Out: 993.684+/-0.265 $\chi^2$/NDF: 719799.0/18

Left In: 541.966+/-0.248 $\chi^2$/NDF:371173.3/2

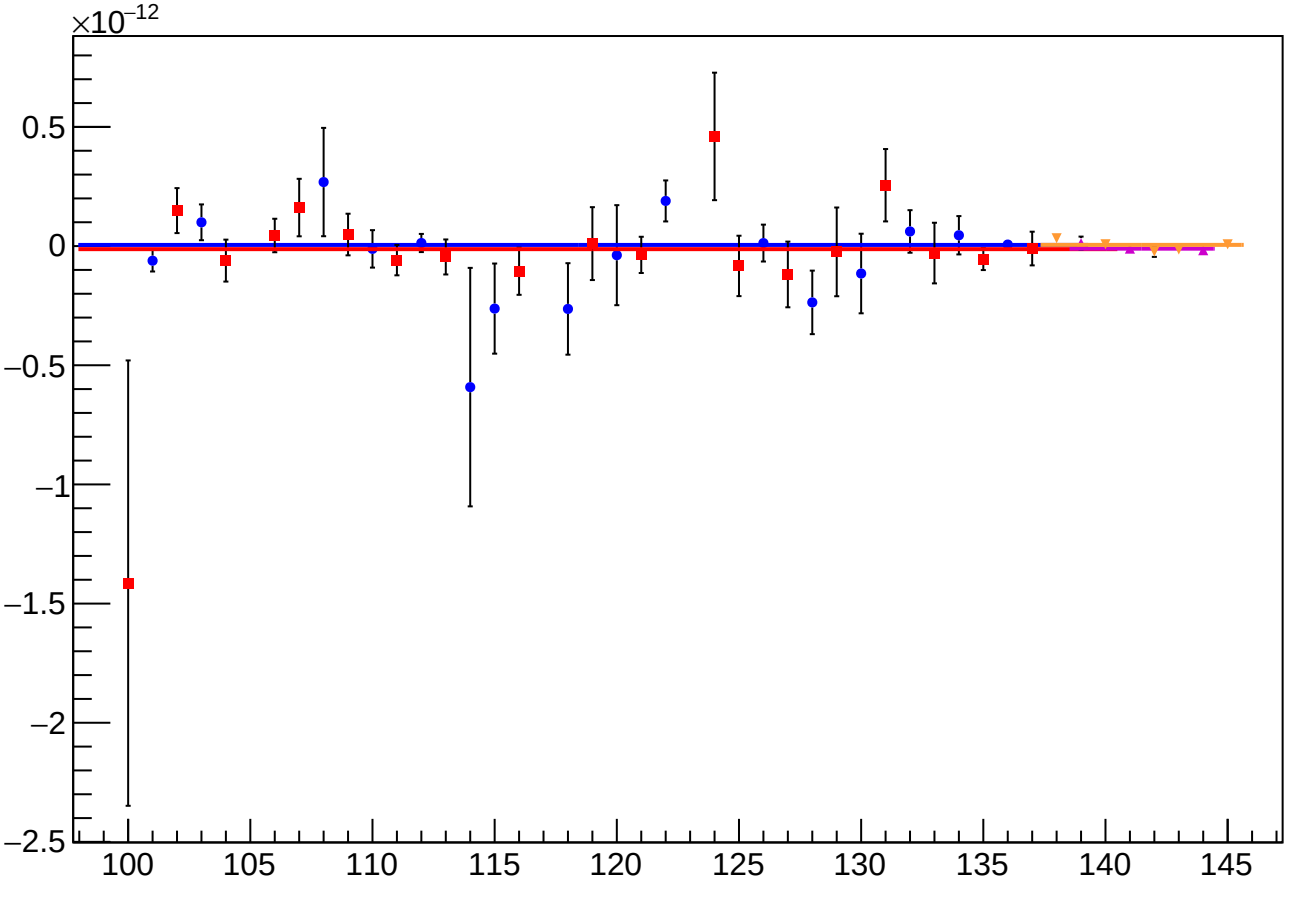
Left: 543.361+/-0.160 $\chi^2$/NDF: 799624.7/7

Right: 987.560+/-0.188 $\chi^2$/NDF: 1458505.1/34

In: 746.132+/-0.182 $\chi^2$/NDF:2564095.4/18

Out: 716.518+/-0.164 $\chi^2$/NDF:2926623.0/23

All: 729.799+/-0.122 $\chi^2$/NDF: 5505376.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.9/2

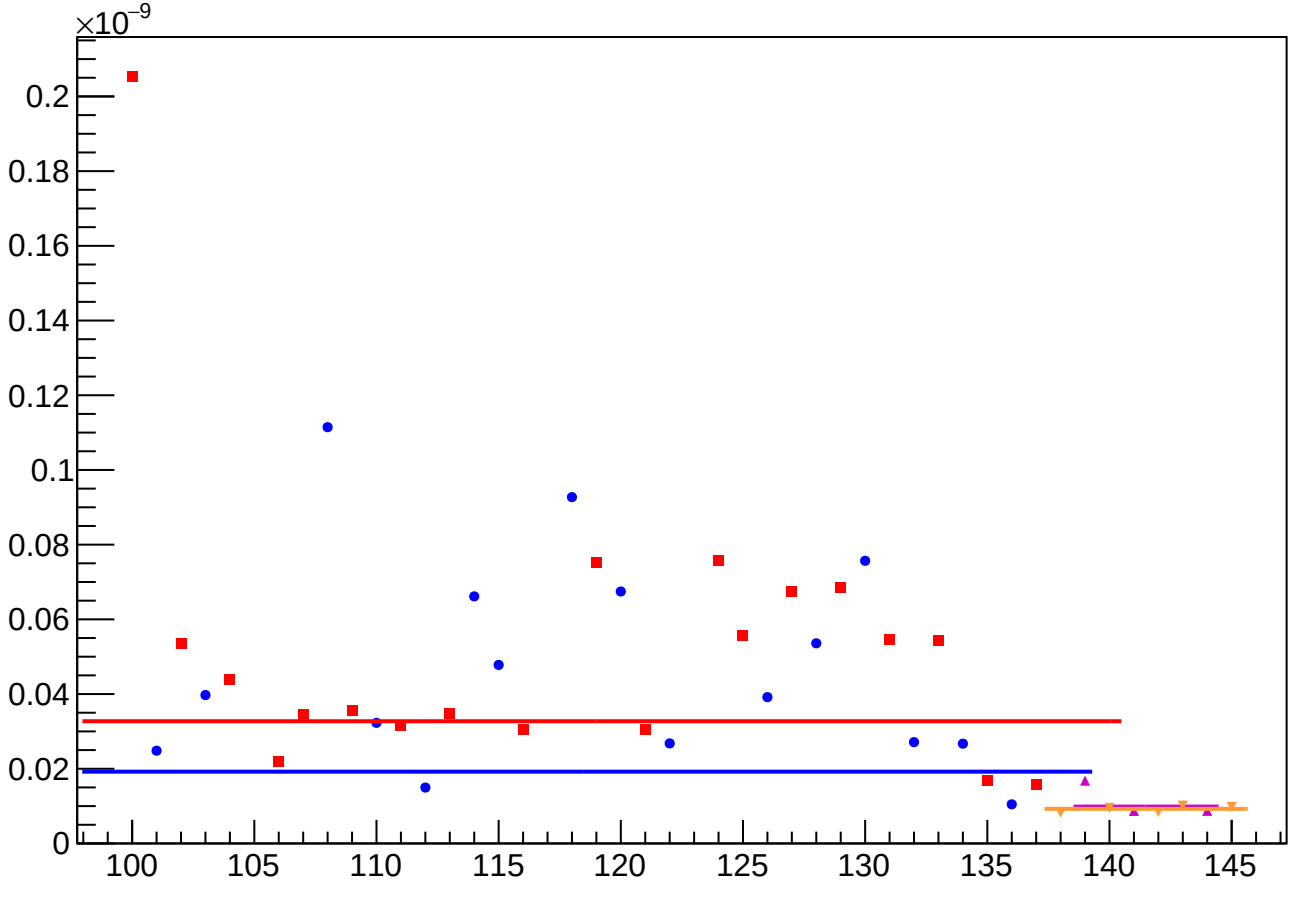
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.4/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 38.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:24.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 45.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1977908.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15768.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1181327.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:147506.1/2

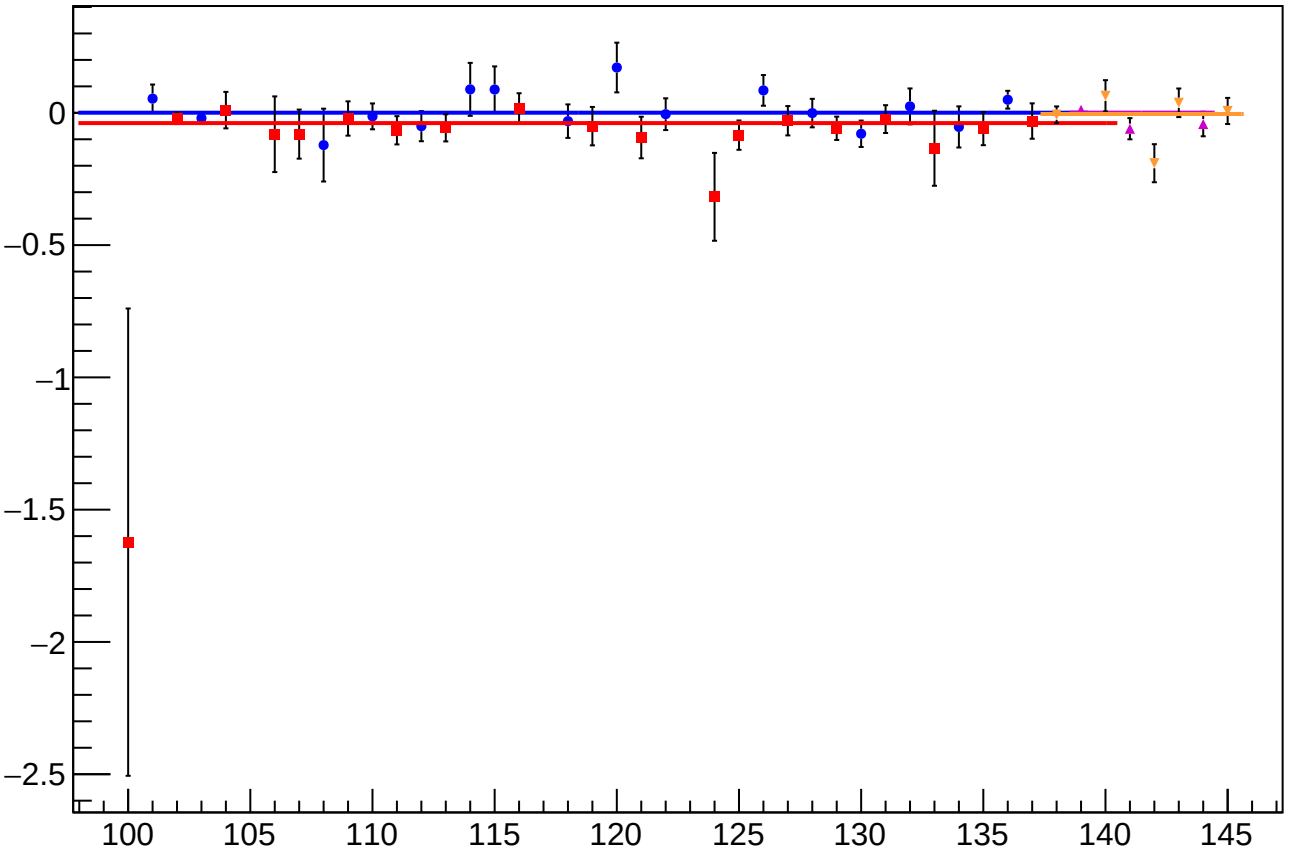
Left: 0.000+/-0.000 $\chi^2$/NDF: 167314.8/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3729954.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:2679998.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3401616.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6086056.5/42




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: -0.004+/-0.021 $\chi^2$/NDF:8.7/4

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: 0.001+/-0.012 $\chi^2$/NDF:3.8/2

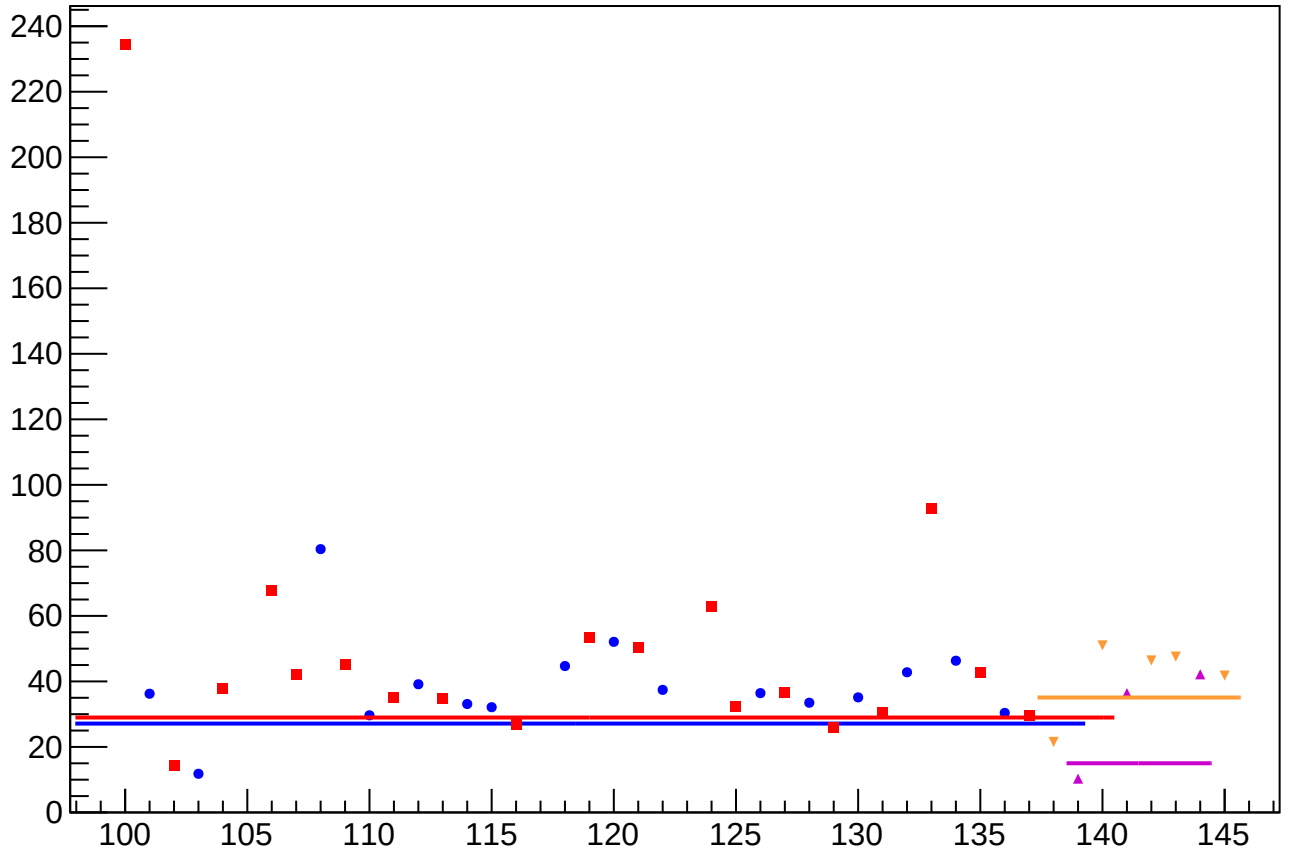
Left: -0.001+/-0.011 $\chi^2$/NDF: 12.5/7

Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: 0.001+/-0.009 $\chi^2$/NDF:20.3/18

Out: -0.030+/-0.011 $\chi^2$/NDF:21.7/23

All: -0.011+/-0.007 $\chi^2$/NDF: 46.8/42




Right In: 27.128+/-0.009 $\chi^2$/NDF: 2415316.1/15

Left Out: 35.083+/-0.015 $\chi^2$/NDF:710281.9/4

Right Out: 28.979+/-0.009 $\chi^2$/NDF: 2456254.0/18

Left In: 15.015+/-0.009 $\chi^2$/NDF:1503916.1/2

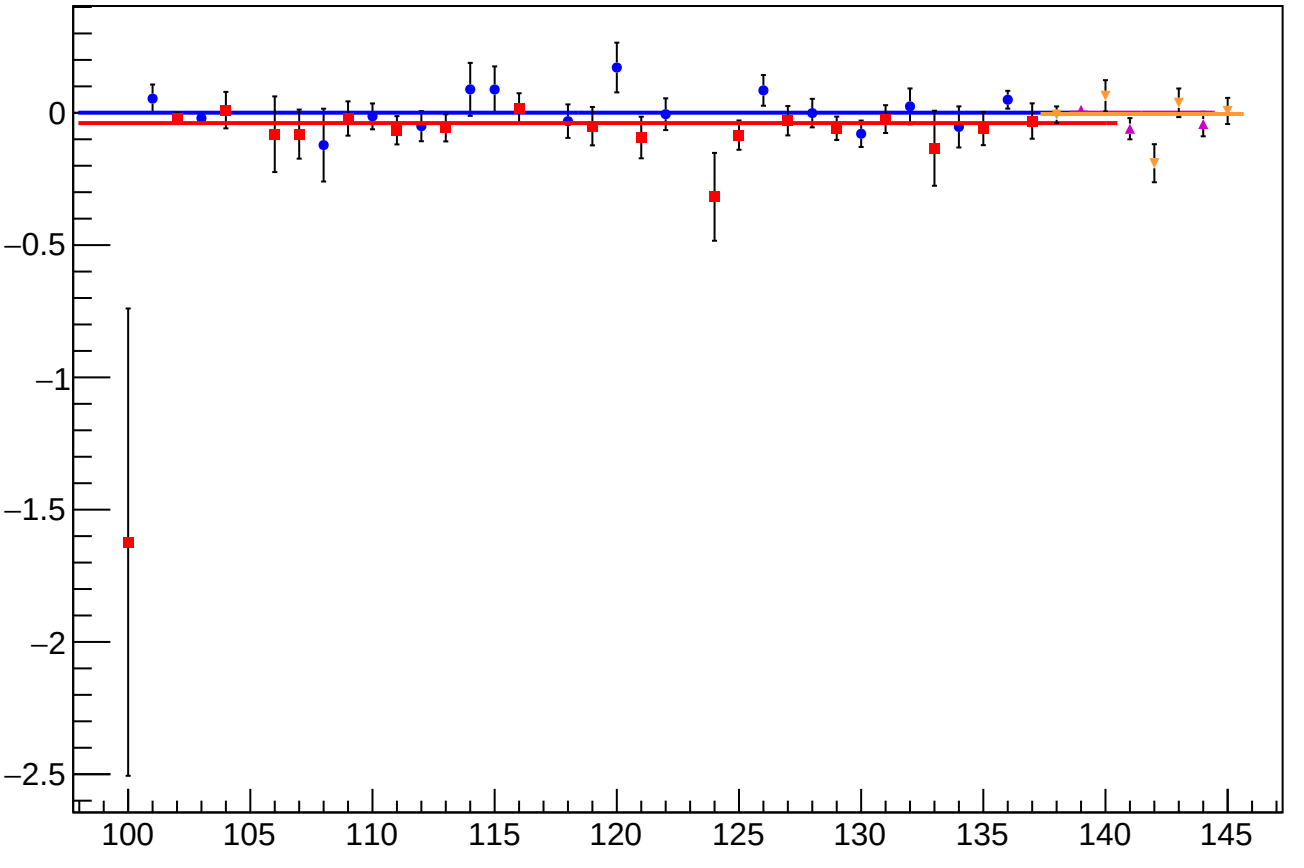
Left: 20.092+/-0.008 $\chi^2$/NDF: 3565898.8/7

Right: 28.008+/-0.006 $\chi^2$/NDF: 4894073.5/34

In: 21.193+/-0.006 $\chi^2$/NDF:4912224.3/18

Out: 30.590+/-0.008 $\chi^2$/NDF:3289740.4/23

All: 24.820+/-0.005 $\chi^2$/NDF: 9124785.6/42




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: -0.004+/-0.021 $\chi^2$/NDF:8.7/4

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: 0.001+/-0.012 $\chi^2$/NDF:3.8/2

Left: -0.001+/-0.011 $\chi^2$/NDF: 12.5/7

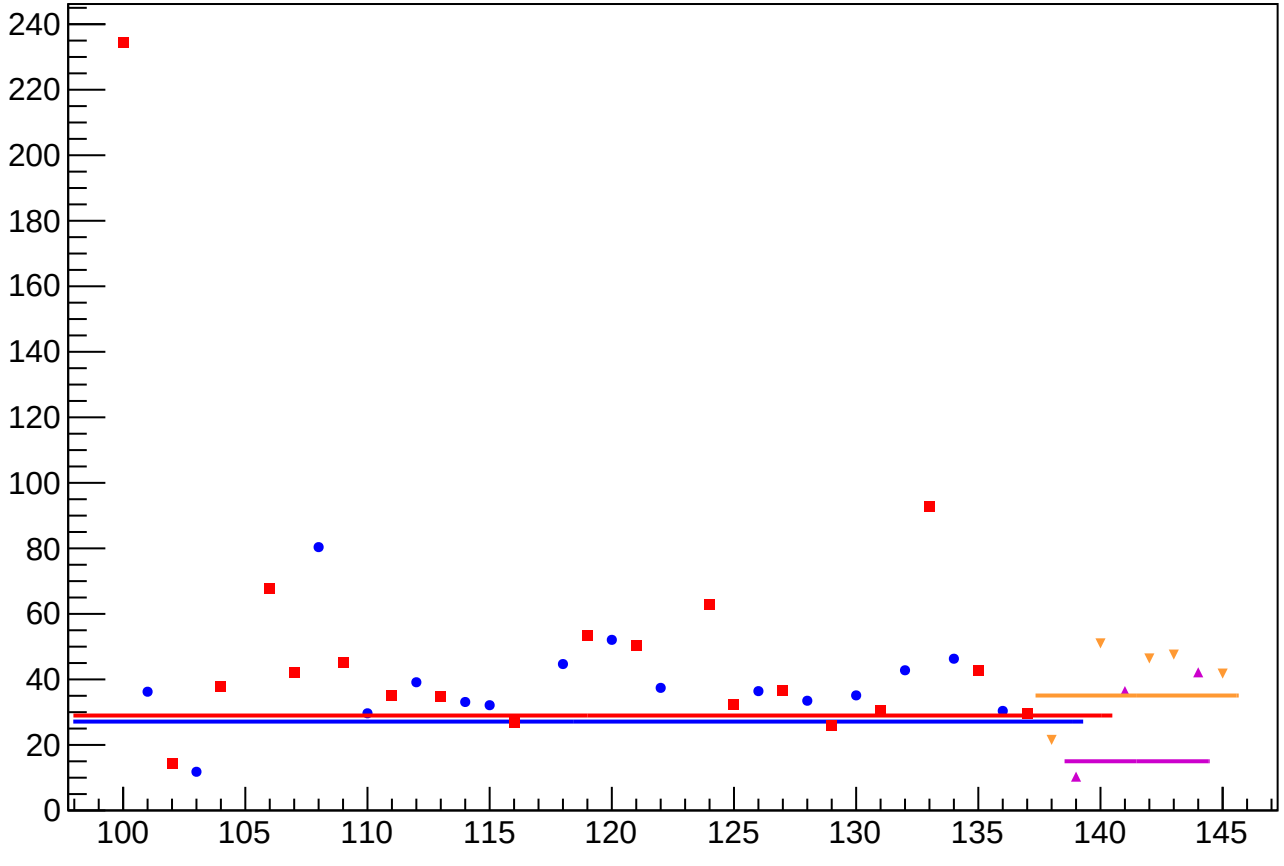
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: 0.001+/-0.009 $\chi^2$/NDF:20.3/18

Out: -0.030+/-0.011 $\chi^2$/NDF:21.7/23

All: -0.011+/-0.007 $\chi^2$/NDF: 46.8/42

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: 35.083+/-0.015 $\chi^2$/NDF:710281.9/4

Right Out: 28.979+/-0.009 $\chi^2$/NDF: 2456254.0/18

Left In: 15.015+/-0.009 $\chi^2$/NDF:1503916.1/2

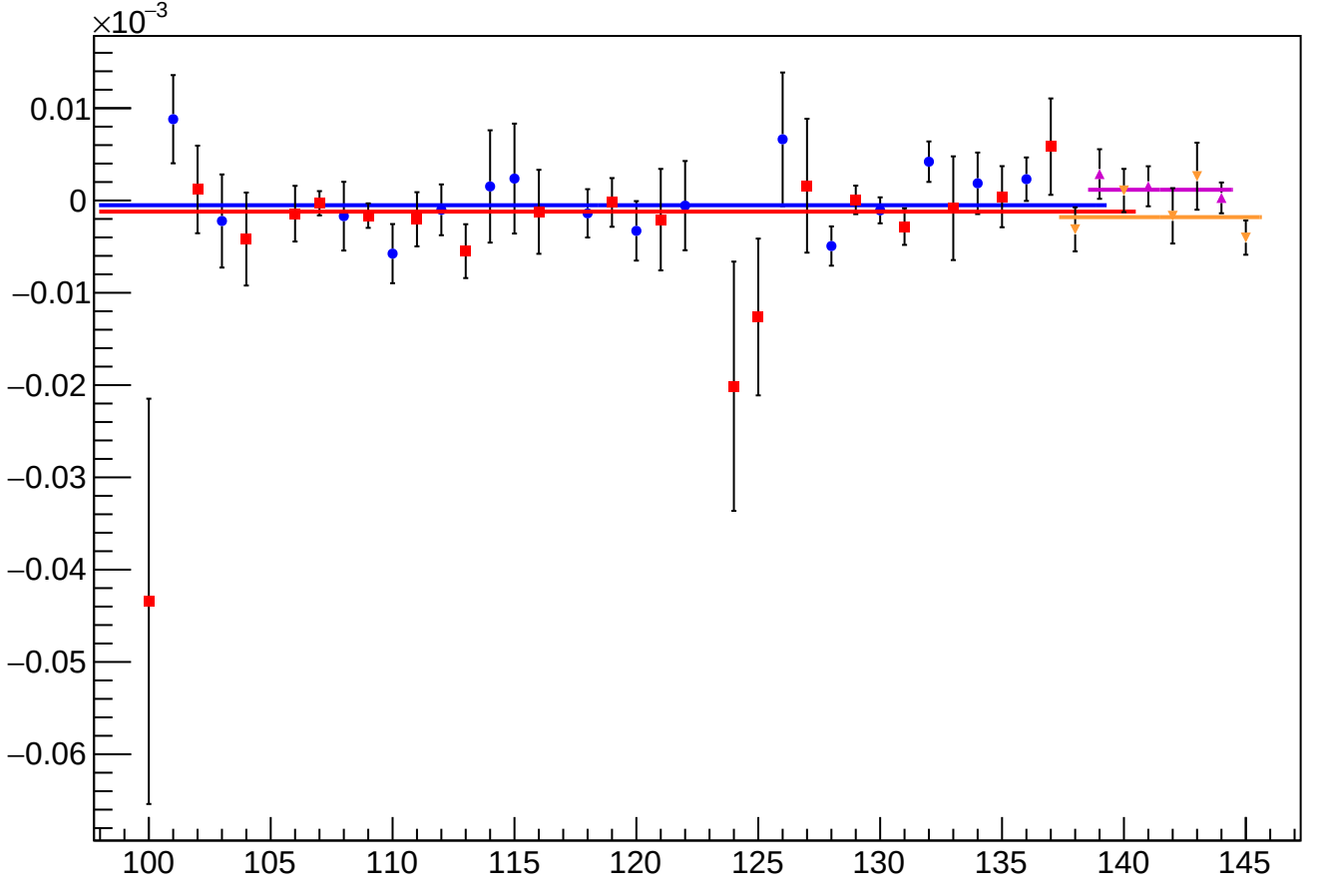
Left: 20.092+/-0.008 $\chi^2$/NDF: 3565898.8/7

Right: 28.008+/-0.006 $\chi^2$/NDF: 4894073.5/34

In: 21.193+/-0.006 $\chi^2$/NDF:4912224.3/18

Out: 30.590+/-0.008 $\chi^2$/NDF:3289740.4/23

All: 24.820+/-0.005 $\chi^2$/NDF: 9124785.6/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.7/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.7/2

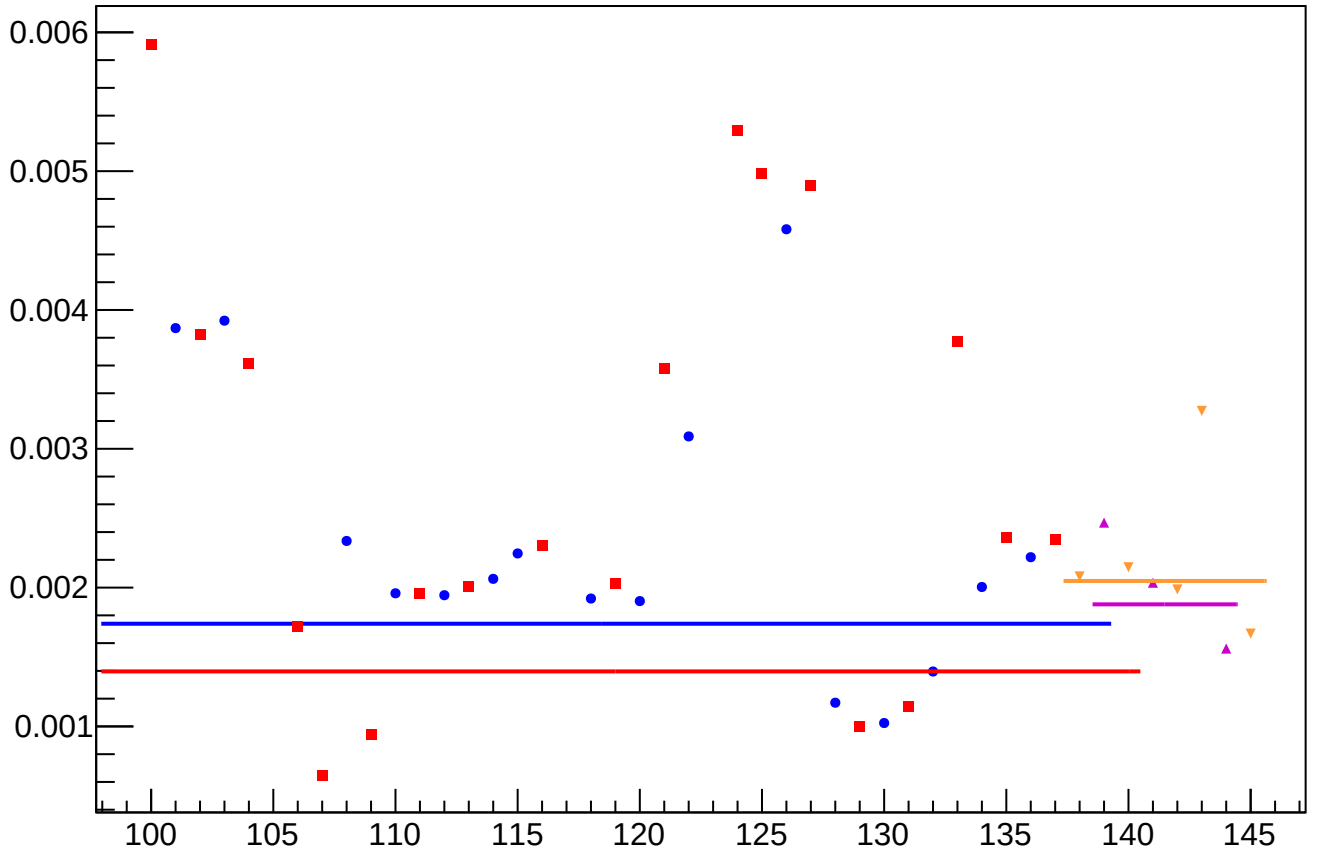
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.6/23

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




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2146798.7/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:315614.4/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4323193.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:179655.2/2

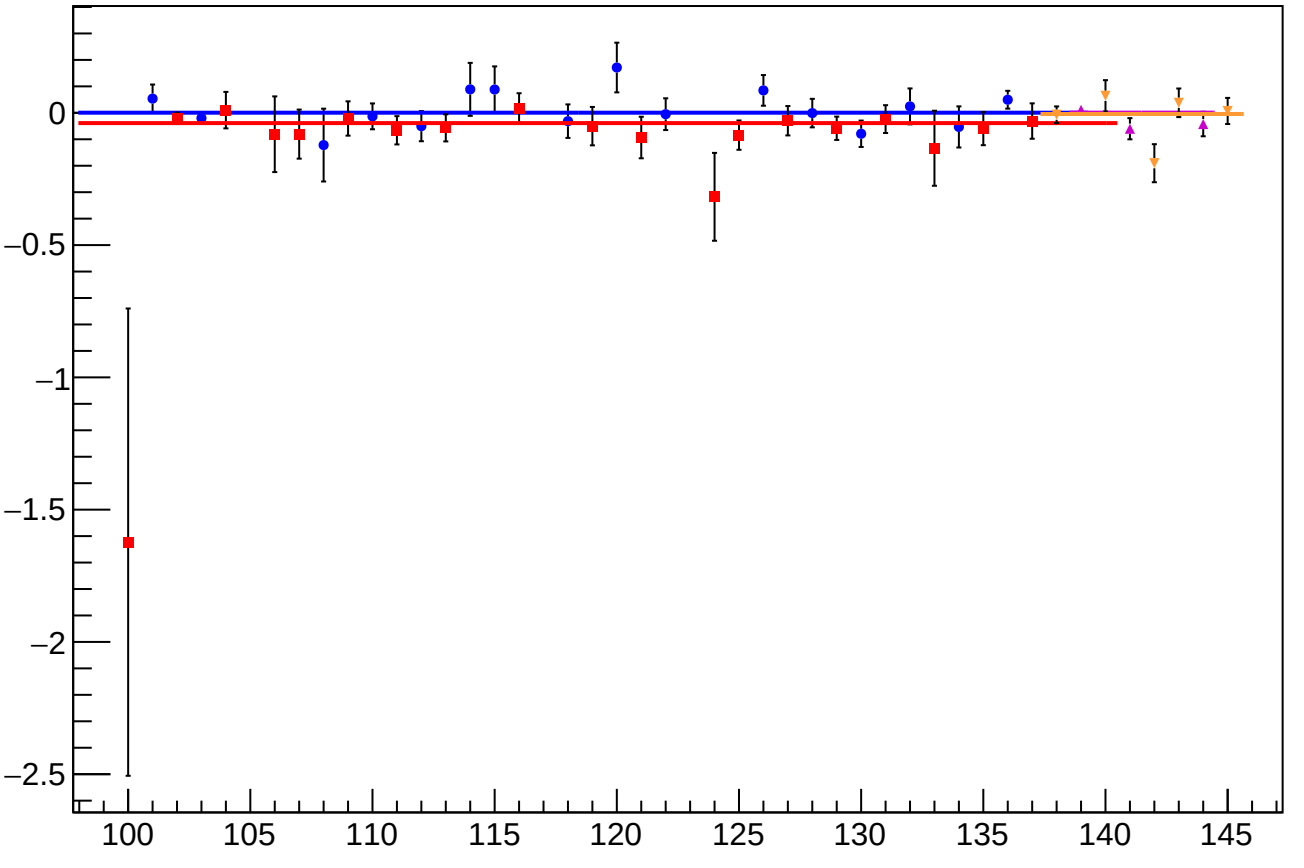
Left: 0.002+/-0.000 $\chi^2$/NDF: 517071.7/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 6735676.7/34

In: 0.002+/-0.000 $\chi^2$/NDF:2346790.4/18

Out: 0.002+/-0.000 $\chi^2$/NDF:5178621.5/23

All: 0.002+/-0.000 $\chi^2$/NDF: 7679546.8/42




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: -0.004+/-0.021 $\chi^2$/NDF:8.7/4

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: 0.001+/-0.012 $\chi^2$/NDF:3.8/2

Left: -0.001+/-0.011 $\chi^2$/NDF: 12.5/7

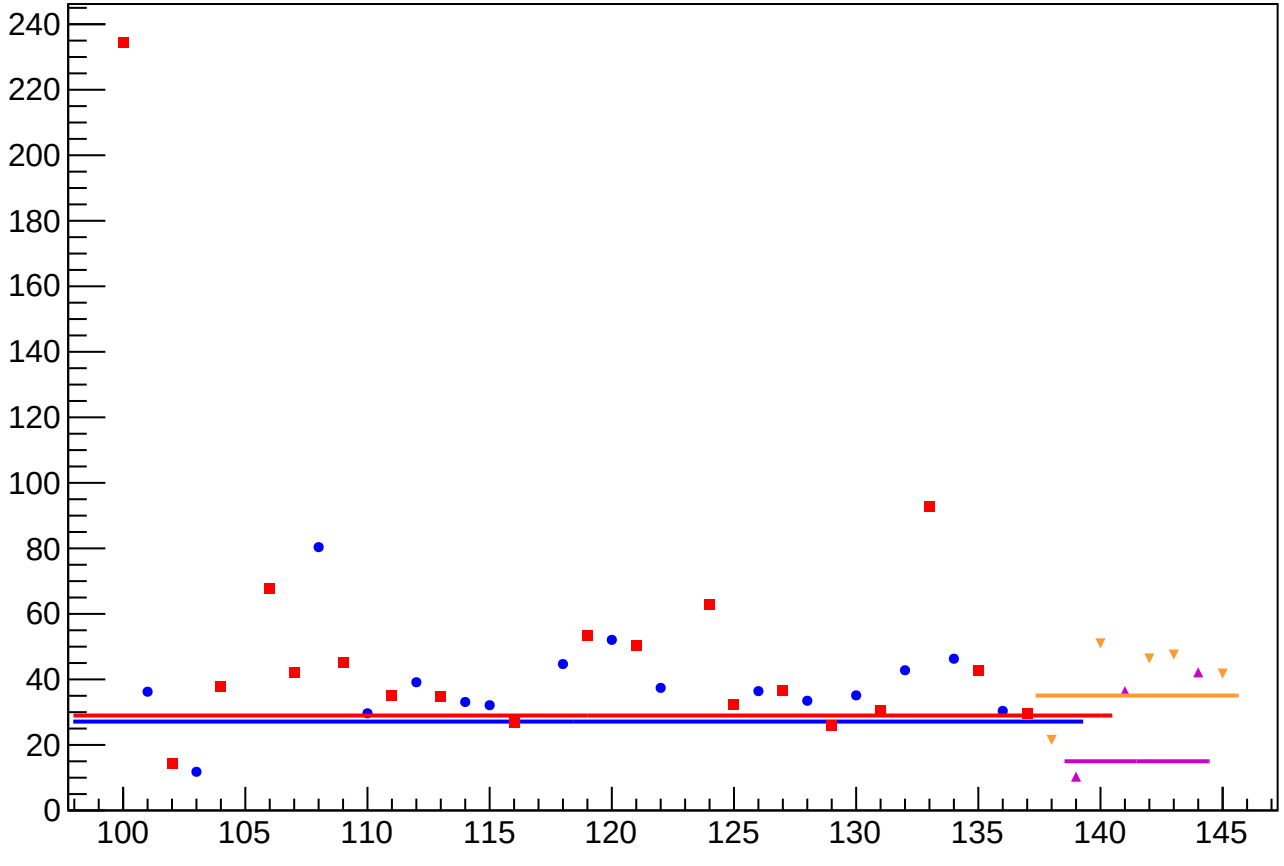
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: 0.001+/-0.009 $\chi^2$/NDF:20.3/18

Out: -0.030+/-0.011 $\chi^2$/NDF:21.7/23

All: -0.011+/-0.007 $\chi^2$/NDF: 46.8/42

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: 35.080+/-0.015 $\chi^2$/NDF:710589.8/4

Right Out: 28.982+/-0.009 $\chi^2$/NDF: 2455659.1/18

Left In: 15.013+/-0.009 $\chi^2$/NDF:1504106.0/2

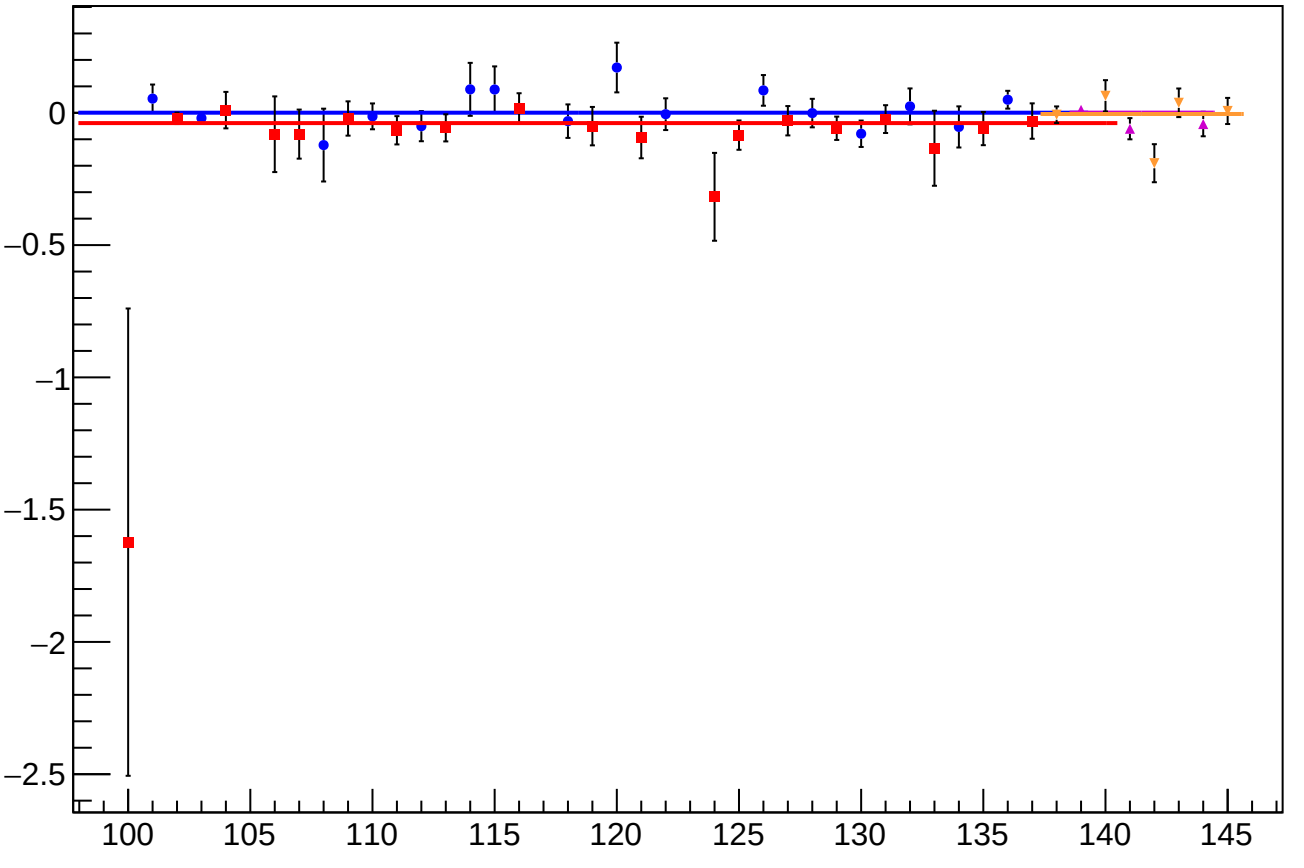
Left: 20.089+/-0.008 $\chi^2$/NDF: 3566411.5/7

Right: 28.009+/-0.006 $\chi^2$/NDF: 4893896.0/34

In: 21.192+/-0.006 $\chi^2$/NDF:4912999.8/18

Out: 30.592+/-0.008 $\chi^2$/NDF:3289241.5/23

All: 24.819+/-0.005 $\chi^2$/NDF: 9125686.3/42




Right In: 0.000+/-0.012 $\chi^2$/NDF: 16.5/15

Left Out: -0.004+/-0.021 $\chi^2$/NDF:8.7/4

Right Out: -0.039+/-0.013 $\chi^2$/NDF: 11.1/18

Left In: 0.001+/-0.012 $\chi^2$/NDF:3.8/2

Left: -0.001+/-0.011 $\chi^2$/NDF: 12.5/7

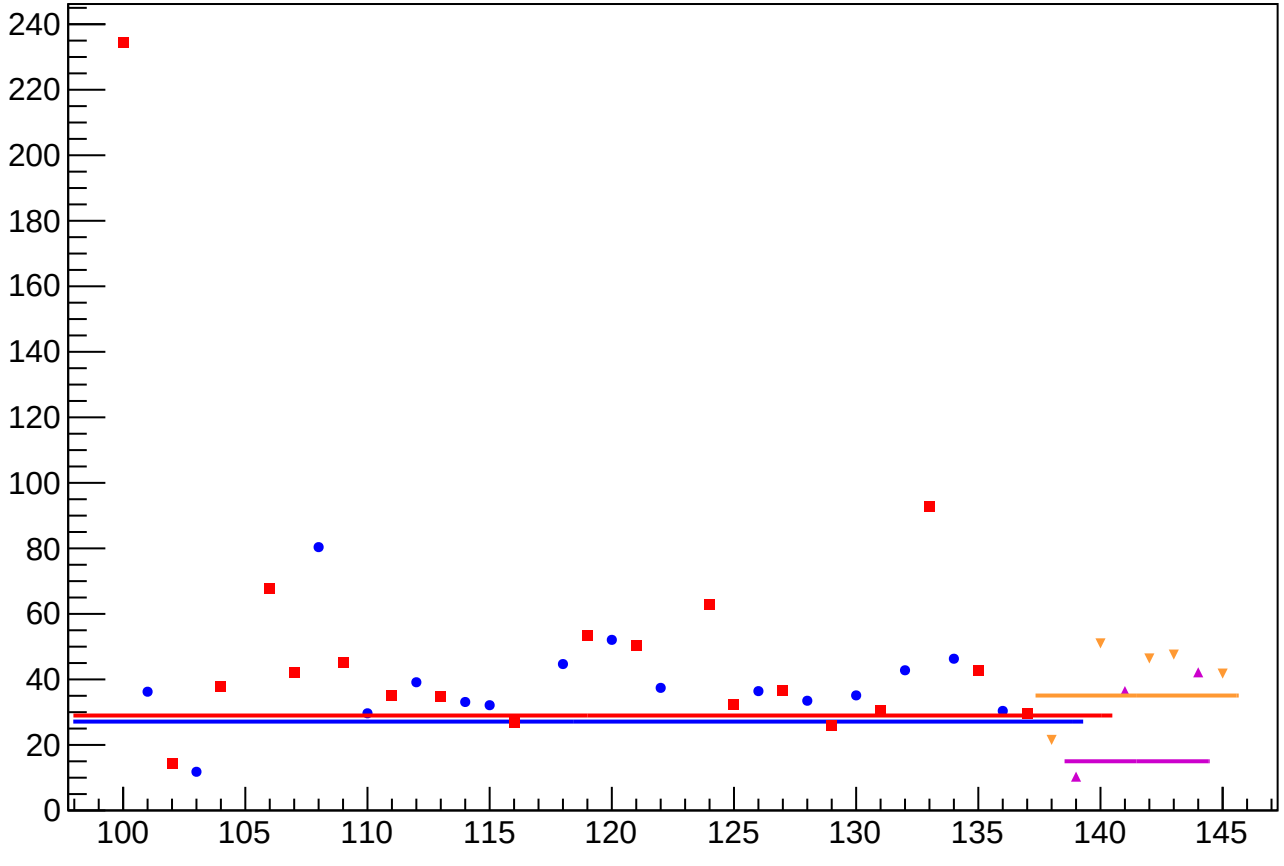
Right: -0.018+/-0.009 $\chi^2$/NDF: 32.6/34

In: 0.001+/-0.009 $\chi^2$/NDF:20.3/18

Out: -0.030+/-0.011 $\chi^2$/NDF:21.7/23

All: -0.011+/-0.007 $\chi^2$/NDF: 46.8/42

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: 35.080+/-0.015 $\chi^2$/NDF:710589.8/4

Right Out: 28.982+/-0.009 $\chi^2$/NDF: 2455659.1/18

Left In: 15.013+/-0.009 $\chi^2$/NDF:1504106.0/2

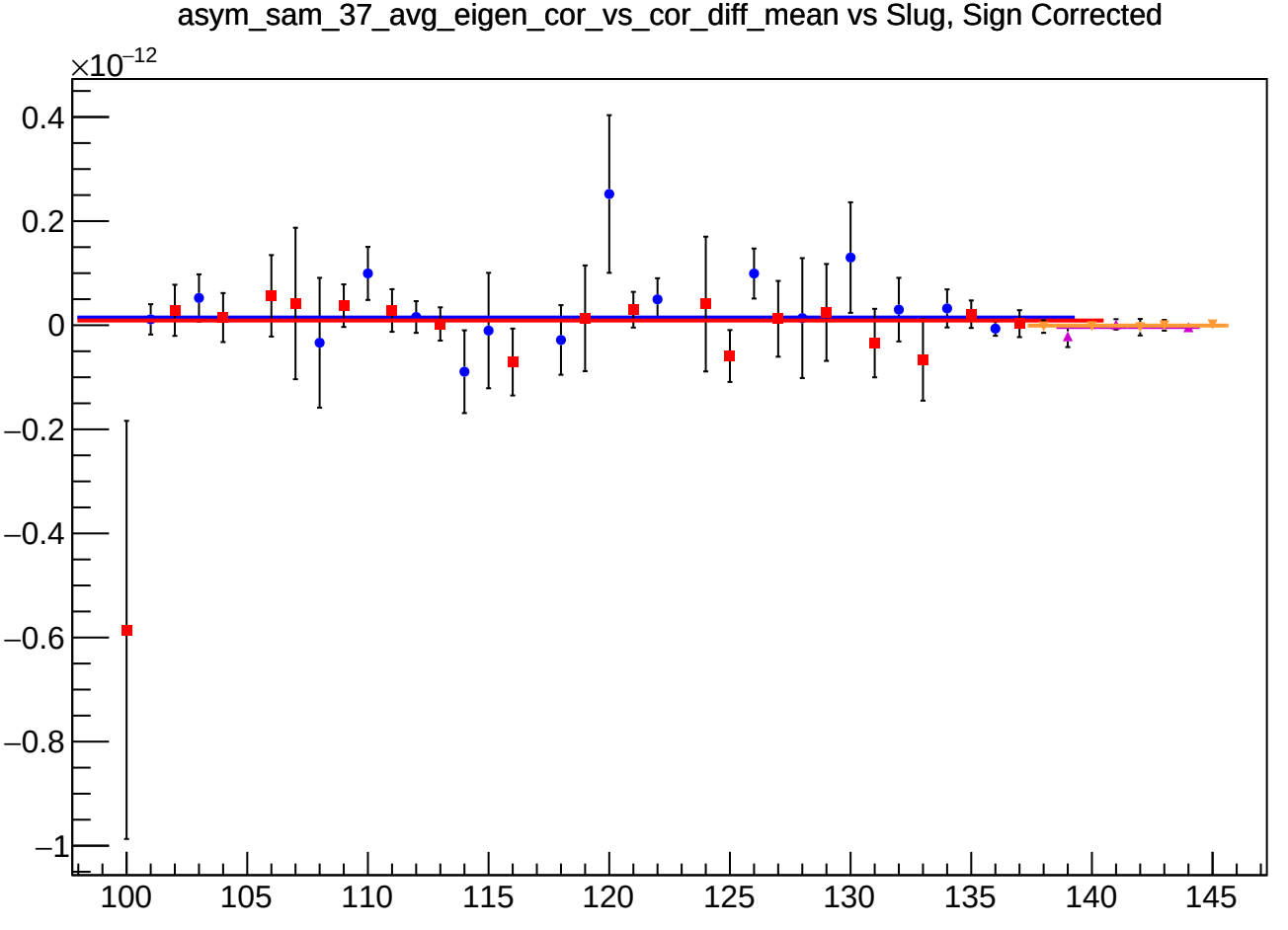
Left: 20.089+/-0.008 $\chi^2$/NDF: 3566411.5/7

Right: 28.009+/-0.006 $\chi^2$/NDF: 4893896.0/34

In: 21.192+/-0.006 $\chi^2$/NDF:4912999.8/18

Out: 30.592+/-0.008 $\chi^2$/NDF:3289241.5/23

All: 24.819+/-0.005 $\chi^2$/NDF: 9125686.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:0.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.0/2

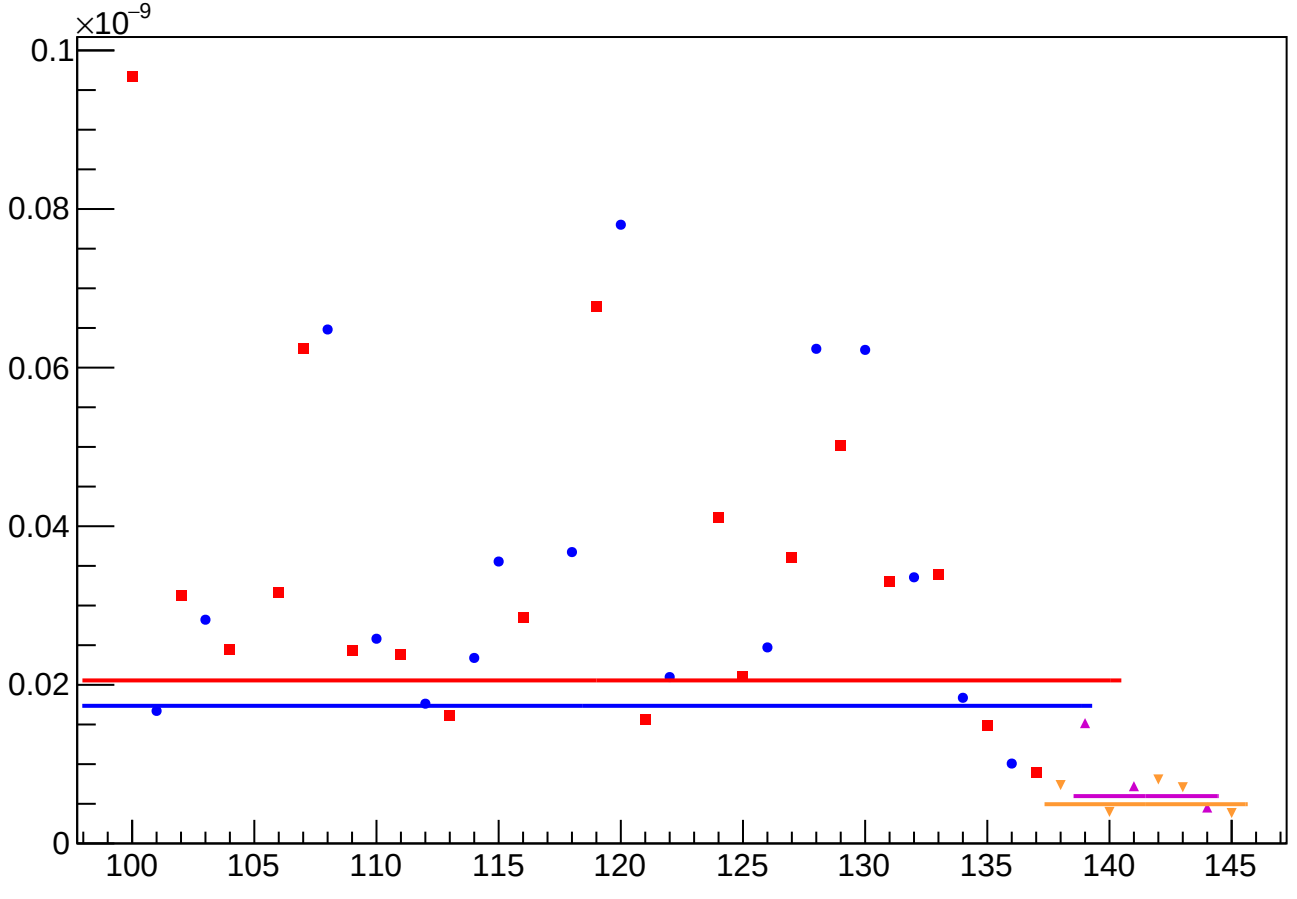
Left: -0.000+/-0.000 $\chi^2$/NDF: 1.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 25.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:10.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 29.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2442014.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:344665.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1925673.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:520352.8/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 913948.3/7

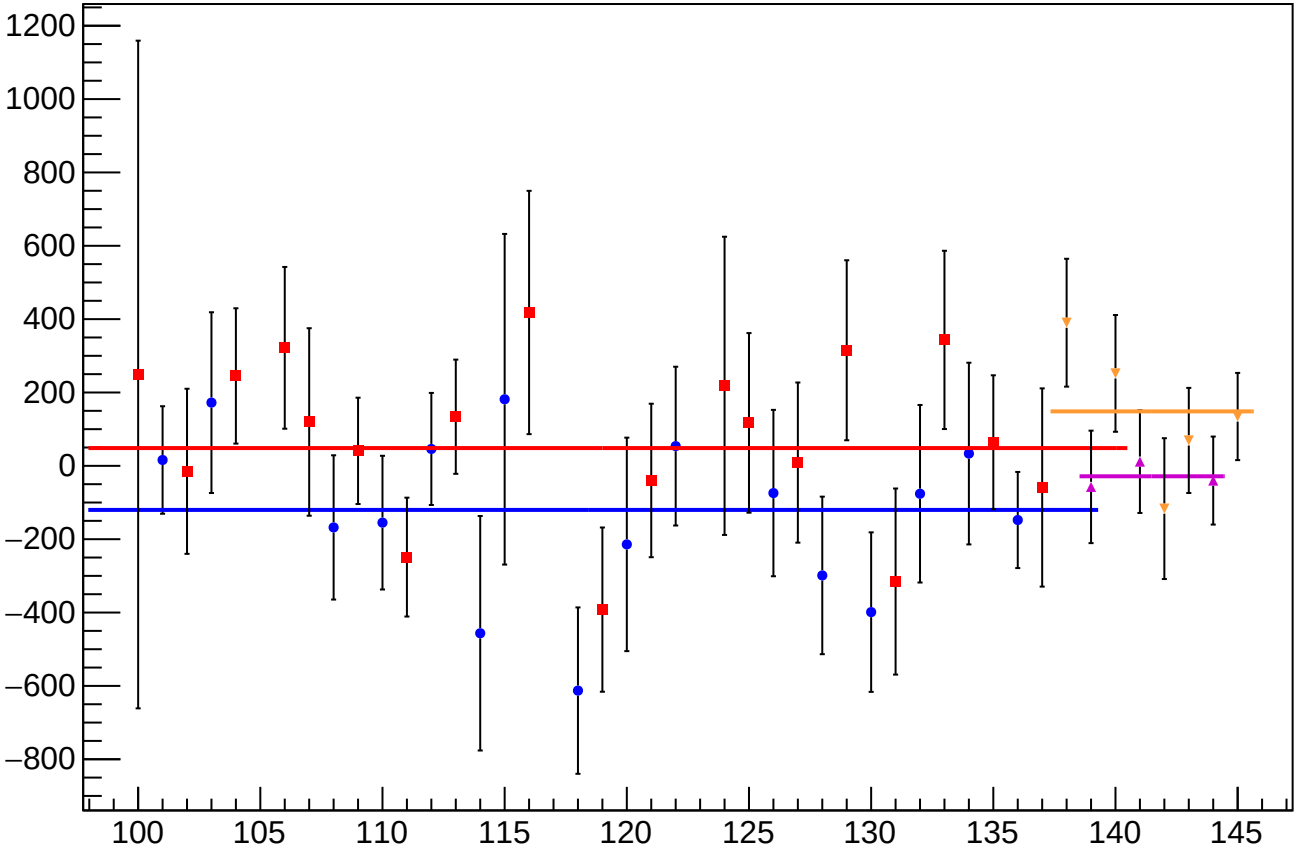
Right: 0.000+/-0.000 $\chi^2$/NDF: 4467051.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:5176051.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5957771.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11356496.5/42

# reg_asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: -120.159+/-51.103 $\chi^2$/NDF: 13.4/15

Left Out: 148.509+/-67.581 $\chi^2$/NDF:4.6/4

Right Out: 48.449+/-49.910 $\chi^2$/NDF: 17.0/18

Left In: -28.467+/-78.320 $\chi^2$/NDF:0.1/2

Left: 72.978+/-51.166 $\chi^2$/NDF: 7.6/7

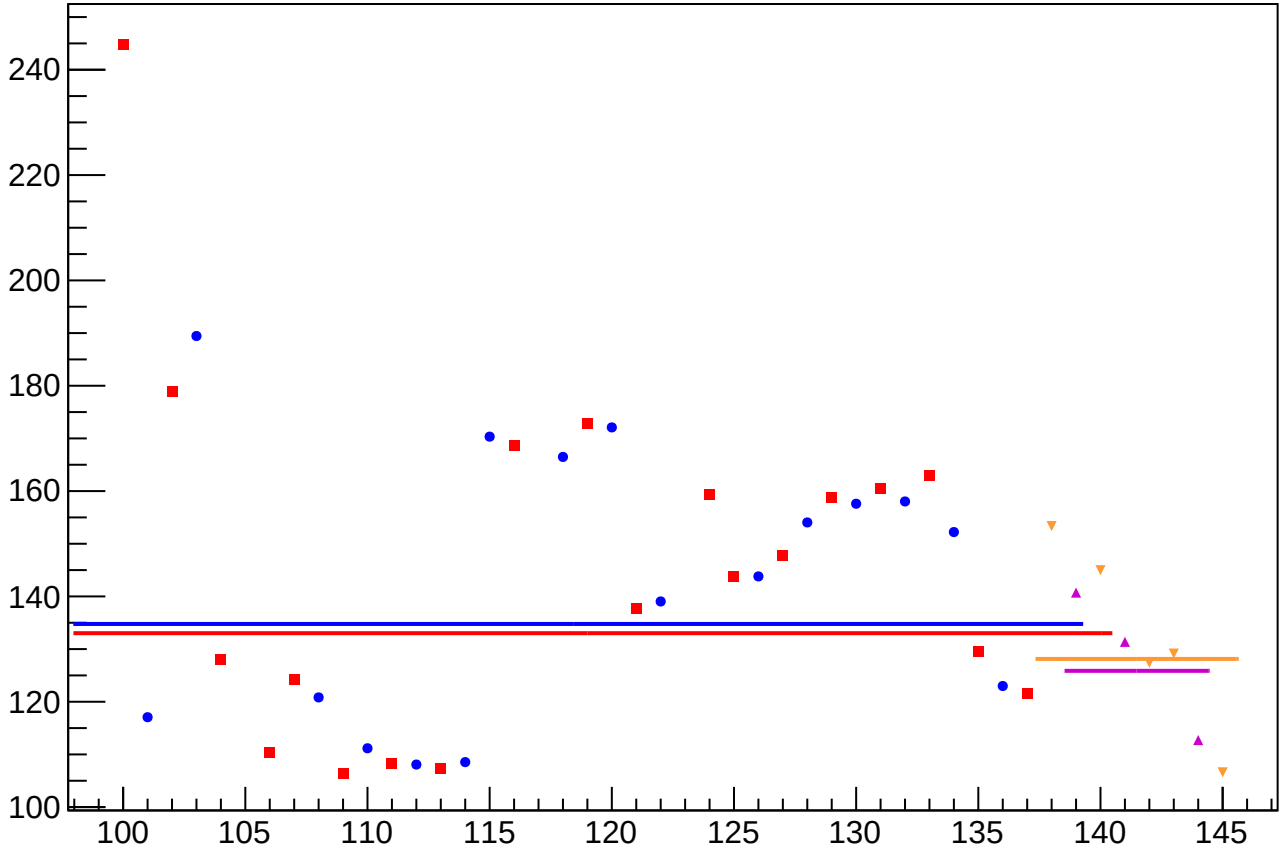
Right: -33.863+/-35.706 $\chi^2$/NDF: 36.0/34

In: -92.778+/-42.798 $\chi^2$/NDF:14.5/18

Out: 83.762+/-40.148 $\chi^2$/NDF:23.0/23

All: 1.127+/-29.281 $\chi^2$/NDF: 46.5/42

# reg_asym_sam_48_avg_rms vs Slug, Sign Corrected




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416778.7/15

Left Out: 128.133+/-0.048 $\chi^2$/NDF:129994.8/4

Right Out: 133.019+/-0.035 $\chi^2$/NDF: 495717.0/18

Left In: 125.870+/-0.055 $\chi^2$/NDF:45878.5/2

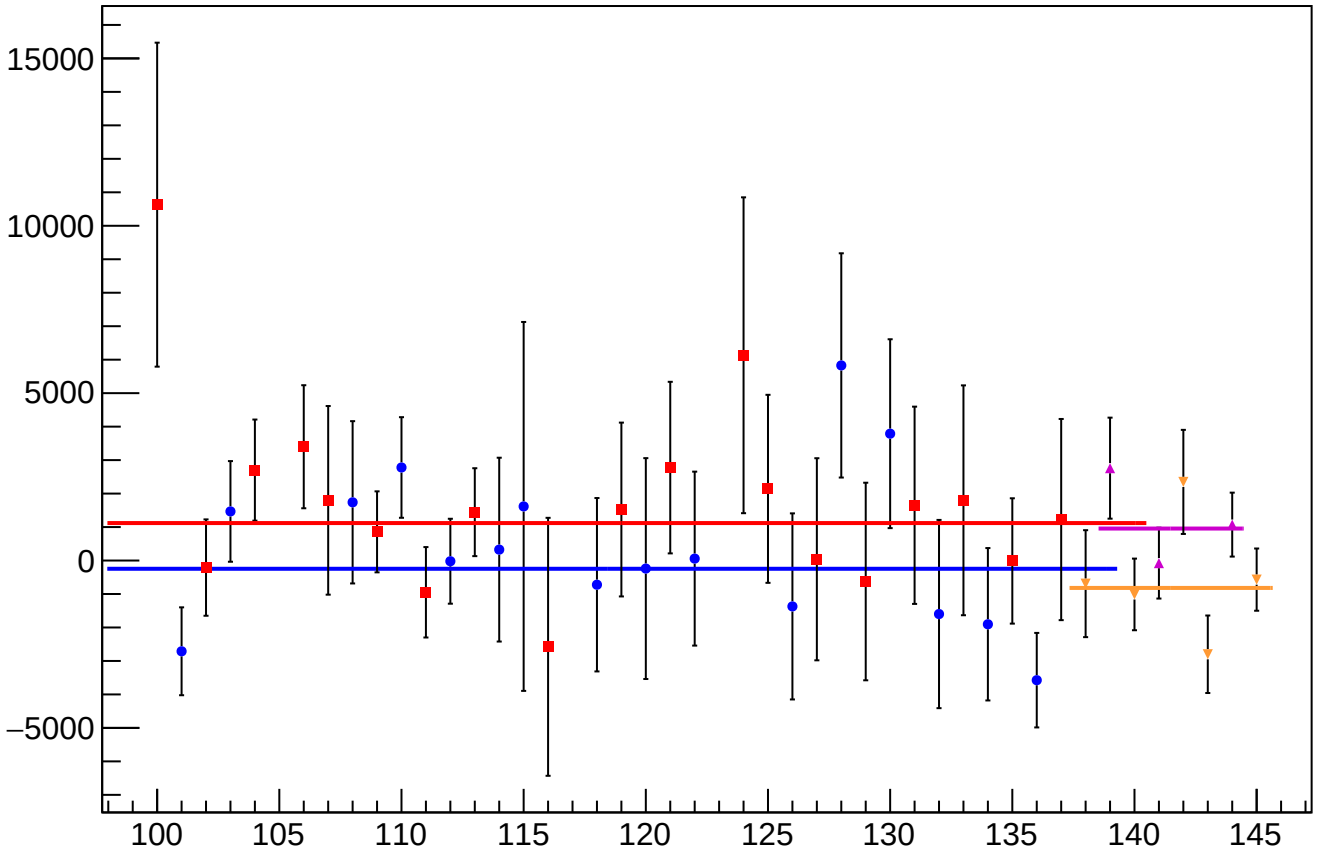
Left: 127.167+/-0.036 $\chi^2$/NDF: 176830.5/7

Right: 133.875+/-0.025 $\chi^2$/NDF: 913698.6/34

In: 132.113+/-0.030 $\chi^2$/NDF:480777.4/18

Out: 131.295+/-0.028 $\chi^2$/NDF:632477.9/23

All: 131.678+/-0.021 $\chi^2$/NDF: 1113644.3/42




Right In: -246.357+/-501.413 $\chi^2$/NDF: 21.6/15

Left Out: -818.591+/-528.328 $\chi^2$/NDF:7.2/4

Right Out: 1119.420+/-468.400 $\chi^2$/NDF: 13.4/18

Left In: 955.411+/-641.786 $\chi^2$/NDF:2.4/2

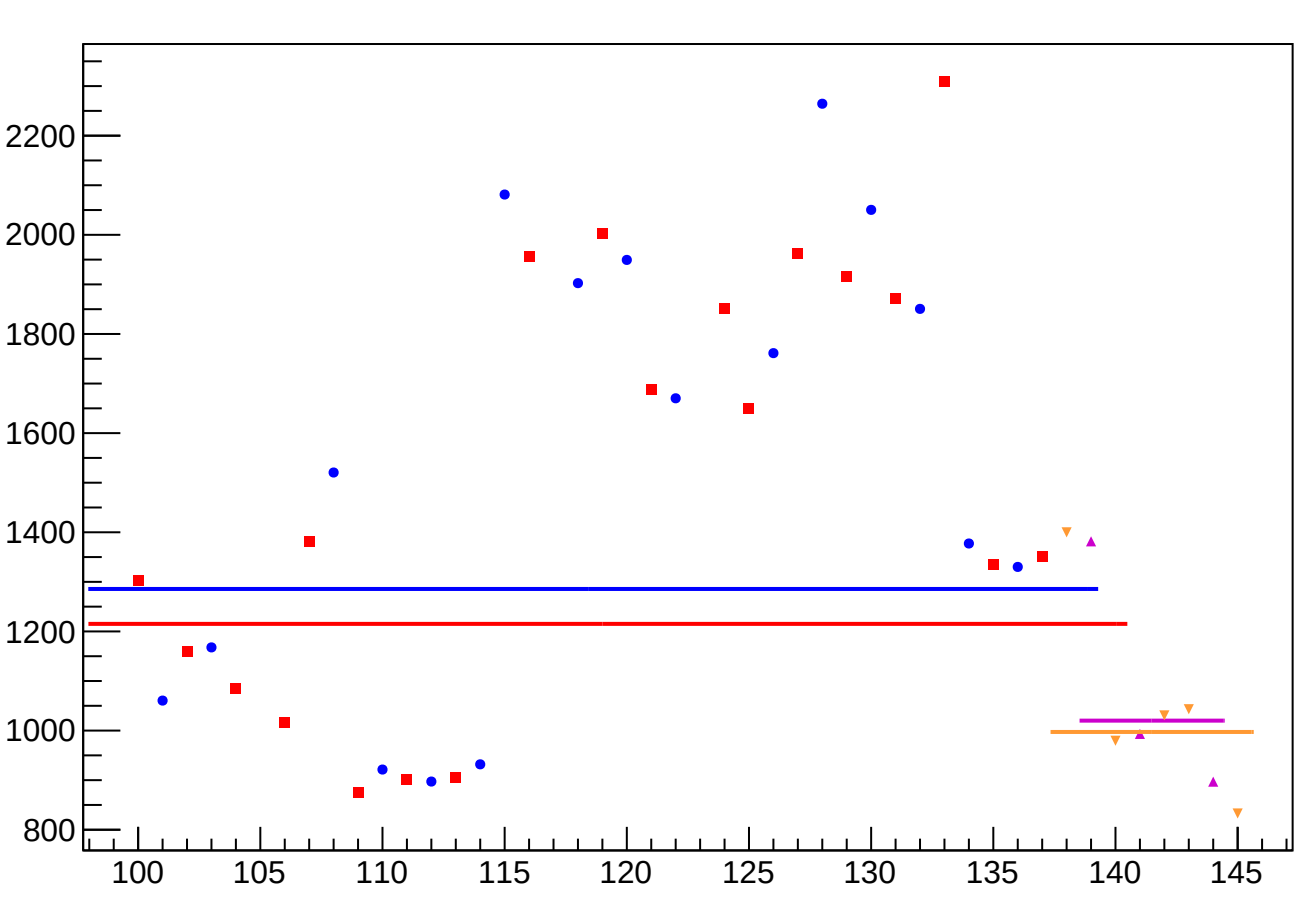
Left: -102.000+/-407.895 $\chi^2$/NDF: 14.1/7

Right: 482.970+/-342.285 $\chi^2$/NDF: 39.0/34

In: 209.154+/-395.121 $\chi^2$/NDF:26.2/18

Out: 266.519+/-350.490 $\chi^2$/NDF:28.1/23

All: 241.258+/-262.199 $\chi^2$/NDF: 54.3/42




Right In: 1285.668+/-0.355 $\chi^2$/NDF: 1170437.4/15

Left Out: 997.230+/-0.374 $\chi^2$/NDF:194245.3/4

Right Out: 1215.237+/-0.331 $\chi^2$/NDF: 1386290.4/18

Left In: 1020.070+/-0.454 $\chi^2$/NDF:149416.6/2

Left: 1006.456+/-0.288 $\chi^2$/NDF: 345171.8/7

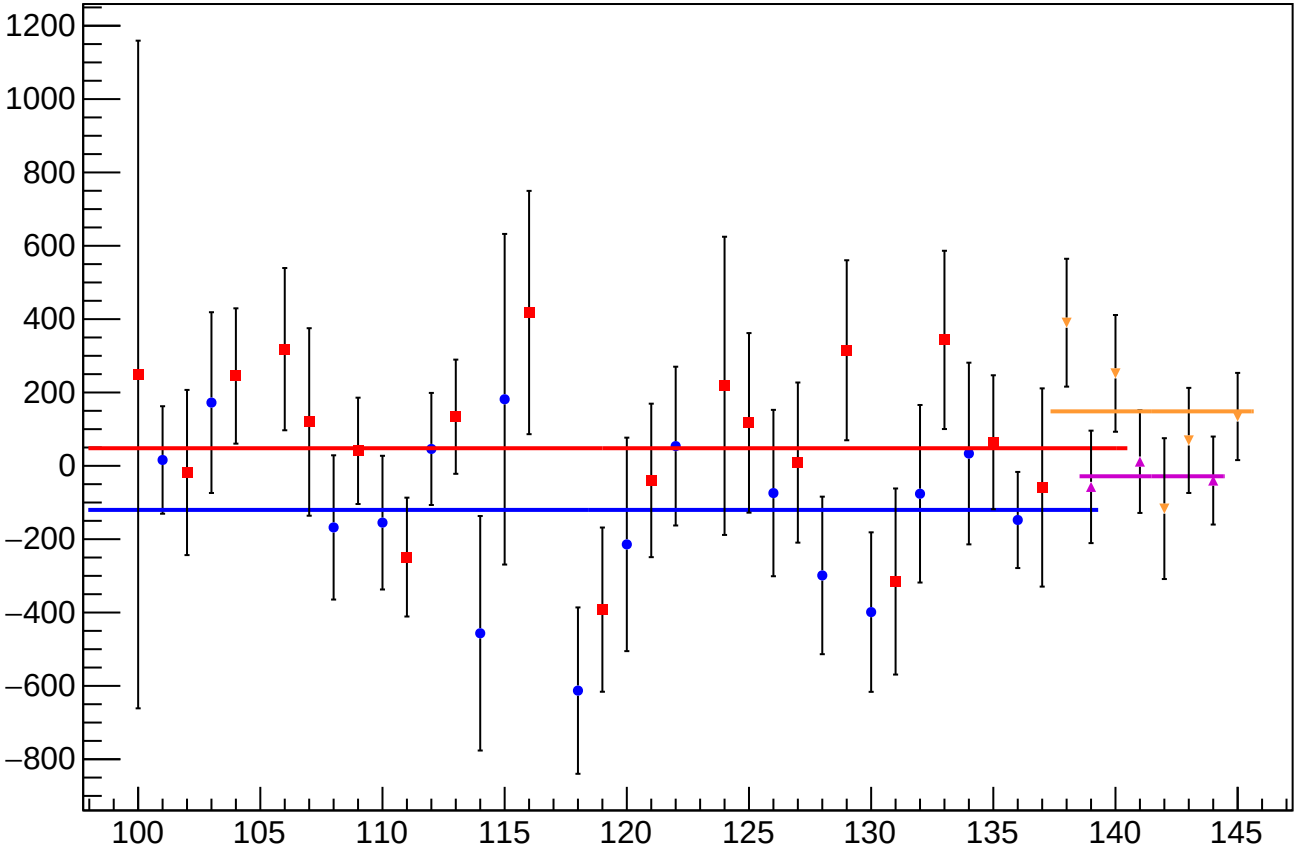
Right: 1248.058+/-0.242 $\chi^2$/NDF: 2577799.9/34

In: 1184.997+/-0.279 $\chi^2$/NDF:1532553.2/18

Out: 1119.294+/-0.248 $\chi^2$/NDF:1771205.8/23

All: 1148.227+/-0.185 $\chi^2$/NDF: 3334708.9/42

# cor_asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: -120.169+/-51.103 $\chi^2$/NDF: 13.4/15

Left Out: 148.530+/-67.581 $\chi^2$/NDF:4.6/4

Right Out: 48.013+/-49.919 $\chi^2$/NDF: 17.0/18

Left In: -28.459+/-78.320 $\chi^2$/NDF:0.1/2

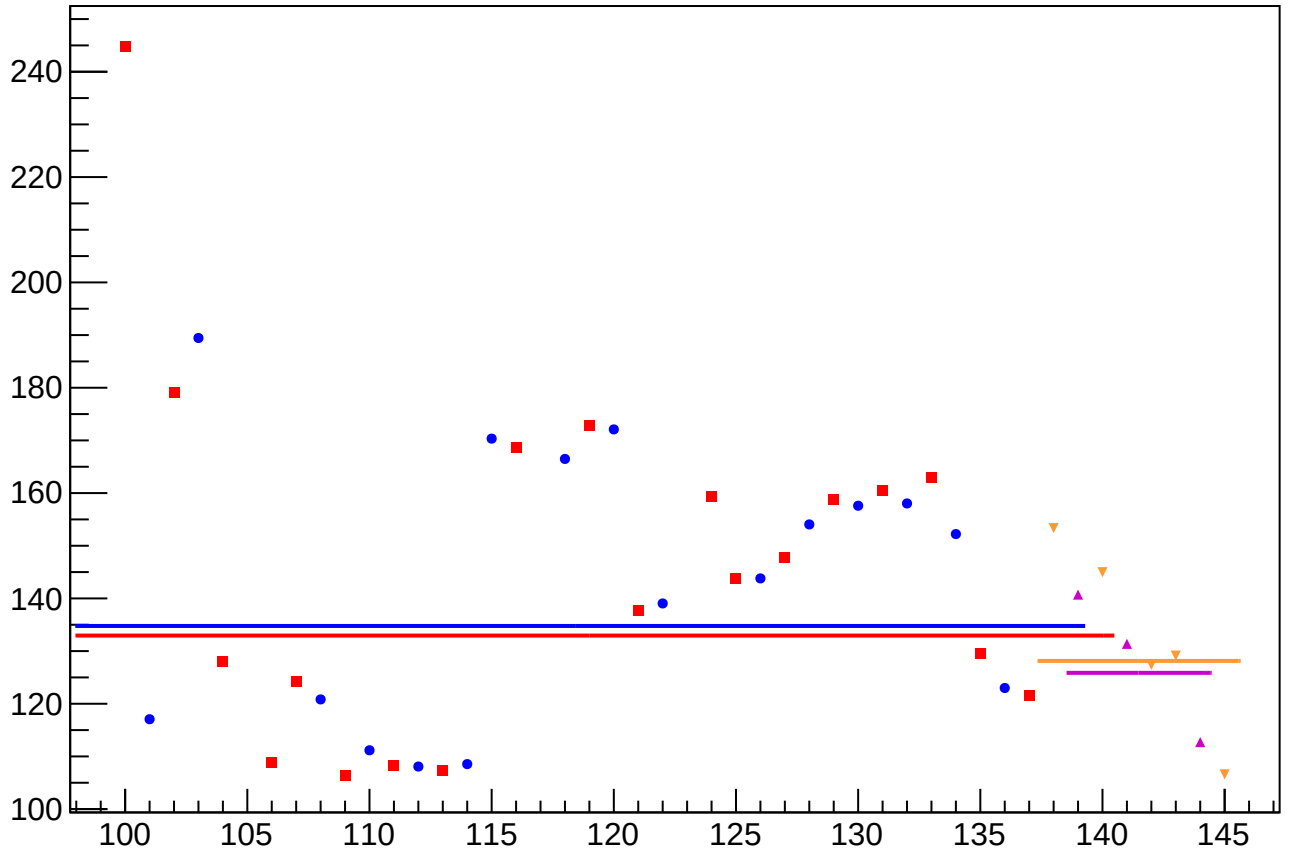
Left: 72.993+/-51.166 $\chi^2$/NDF: 7.6/7

Right: -34.107+/-35.709 $\chi^2$/NDF: 35.9/34

In: -92.784+/-42.798 $\chi^2$/NDF:14.5/18

Out: 83.496+/-40.153 $\chi^2$/NDF:23.0/23

All: 0.973+/-29.283 $\chi^2$/NDF: 46.5/42




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416781.8/15

Left Out: 128.133+/-0.048 $\chi^2$/NDF:129994.8/4

Right Out: 132.947+/-0.035 $\chi^2$/NDF: 498850.6/18

Left In: 125.870+/-0.055 $\chi^2$/NDF:45878.5/2

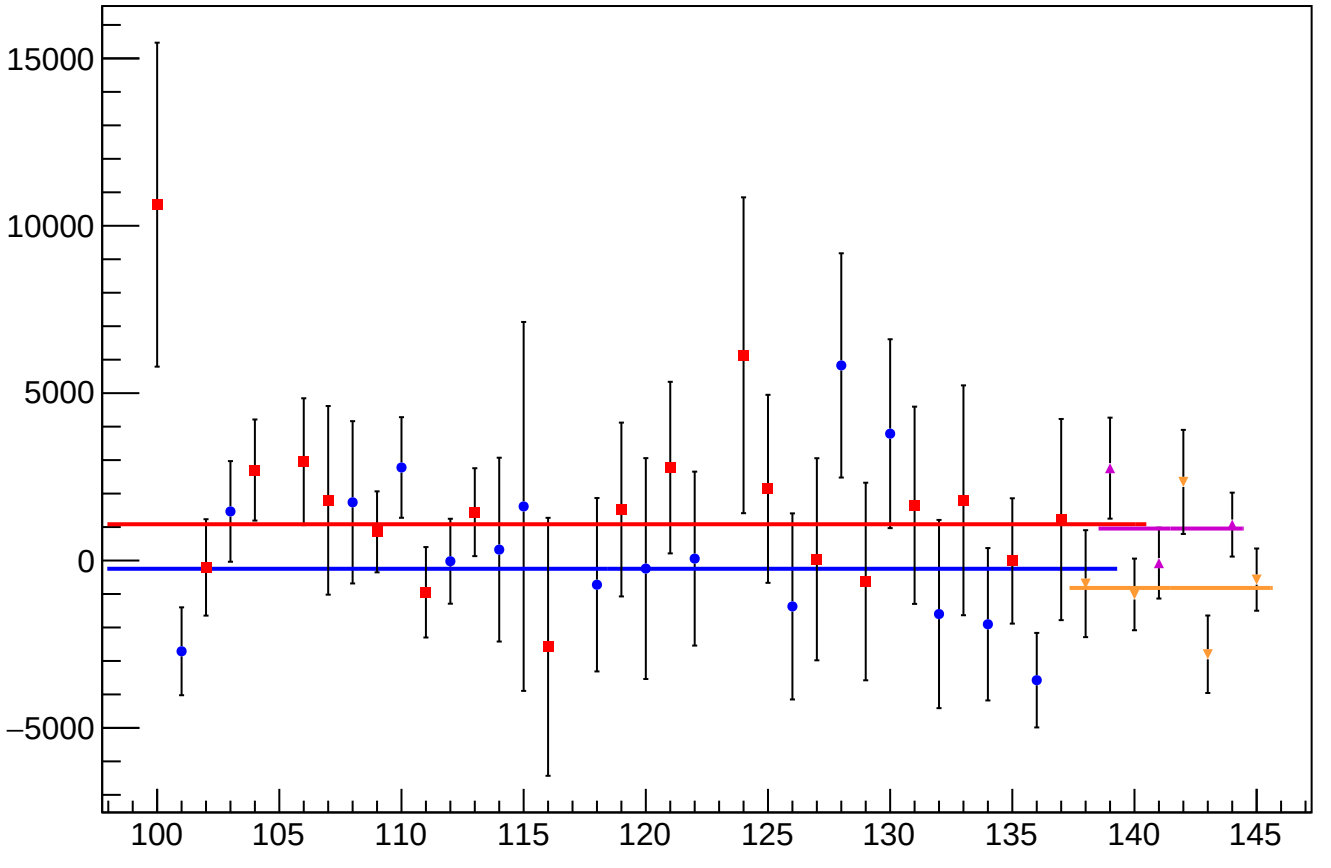
Left: 127.167+/-0.036 $\chi^2$/NDF: 176830.5/7

Right: 133.838+/-0.025 $\chi^2$/NDF: 916936.5/34

In: 132.113+/-0.030 $\chi^2$/NDF:480780.6/18

Out: 131.248+/-0.028 $\chi^2$/NDF:635411.6/23

All: 131.653+/-0.021 $\chi^2$/NDF: 1116627.3/42




Right In: -246.428+/-501.418 $\chi^2$/NDF: 21.6/15

Left Out: -818.573+/-528.328 $\chi^2$/NDF:7.2/4

Right Out: 1084.094+/-469.323 $\chi^2$/NDF: 12.8/18

Left In: 955.431+/-641.786 $\chi^2$/NDF:2.4/2

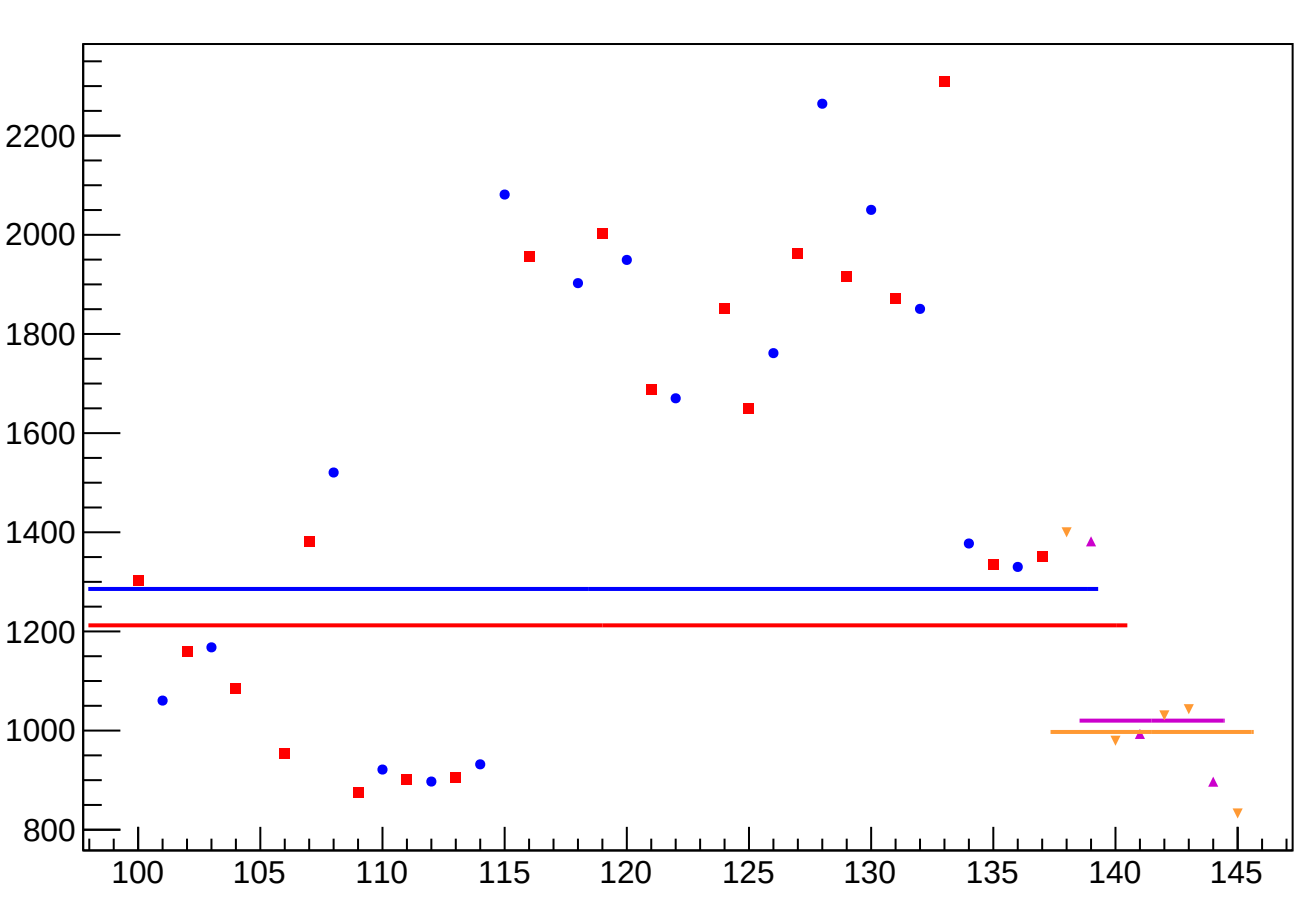
Left: -101.983+/-407.895 $\chi^2$/NDF: 14.1/7

Right: 462.775+/-342.647 $\chi^2$/NDF: 38.1/34

In: 209.123+/-395.123 $\chi^2$/NDF:26.2/18

Out: 244.899+/-350.876 $\chi^2$/NDF:27.2/23

All: 229.125+/-262.362 $\chi^2$/NDF: 53.4/42




Right In: 1285.682+/-0.355 $\chi^2$/NDF: 1170412.5/15

Left Out: 997.229+/-0.374 $\chi^2$/NDF:194245.8/4

Right Out: 1212.276+/-0.332 $\chi^2$/NDF: 1400635.5/18

Left In: 1020.071+/-0.454 $\chi^2$/NDF:149415.6/2

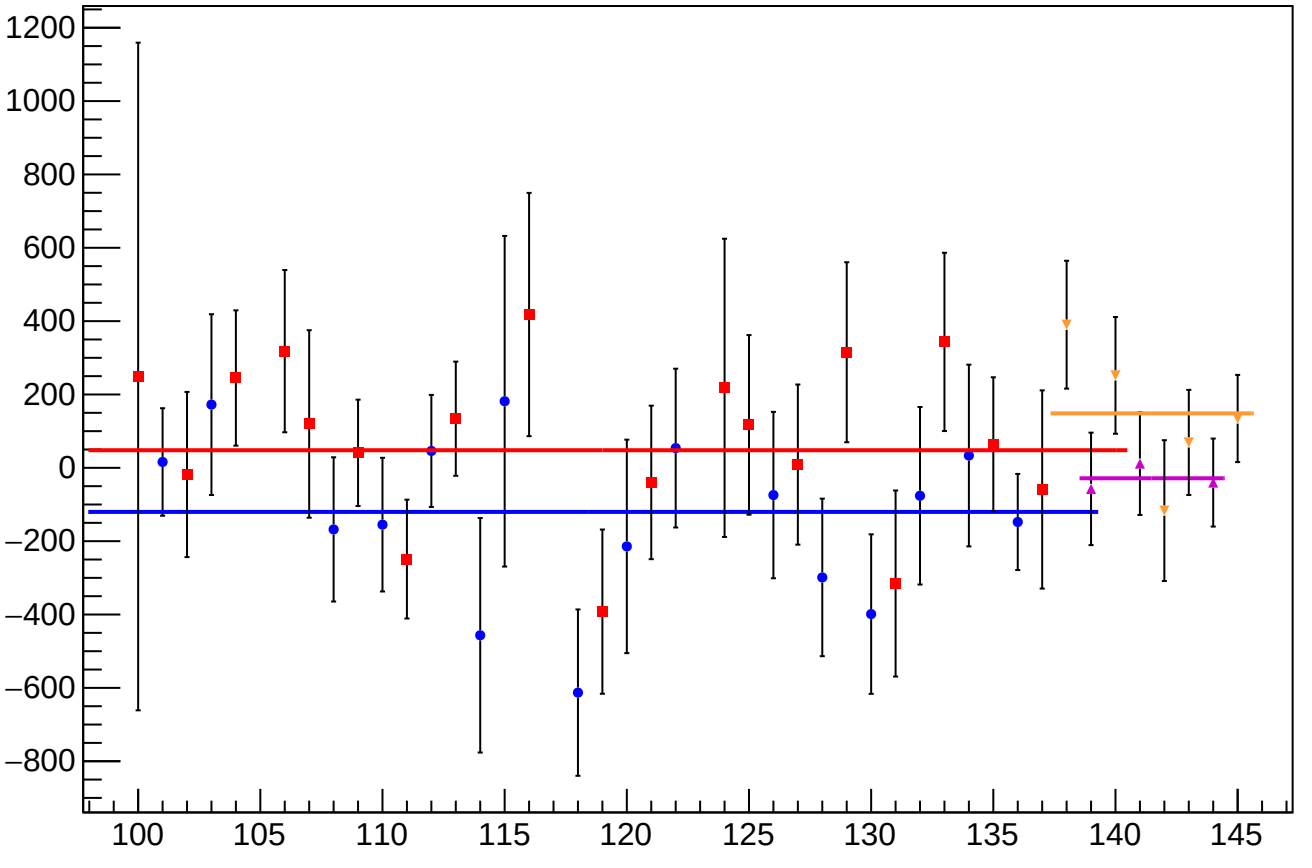
Left: 1006.456+/-0.288 $\chi^2$/NDF: 345171.6/7

Right: 1246.554+/-0.242 $\chi^2$/NDF: 2593895.7/34

In: 1185.005+/-0.279 $\chi^2$/NDF:1532546.3/18

Out: 1117.426+/-0.248 $\chi^2$/NDF:1780086.2/23

All: 1147.221+/-0.186 $\chi^2$/NDF: 3345342.2/42




Right In: -120.169+/-51.103 $\chi^2$/NDF: 13.4/15

Left Out: 148.530+/-67.581 $\chi^2$/NDF:4.6/4

Right Out: 48.013+/-49.919 $\chi^2$/NDF: 17.0/18

Left In: -28.459+/-78.320 $\chi^2$/NDF:0.1/2

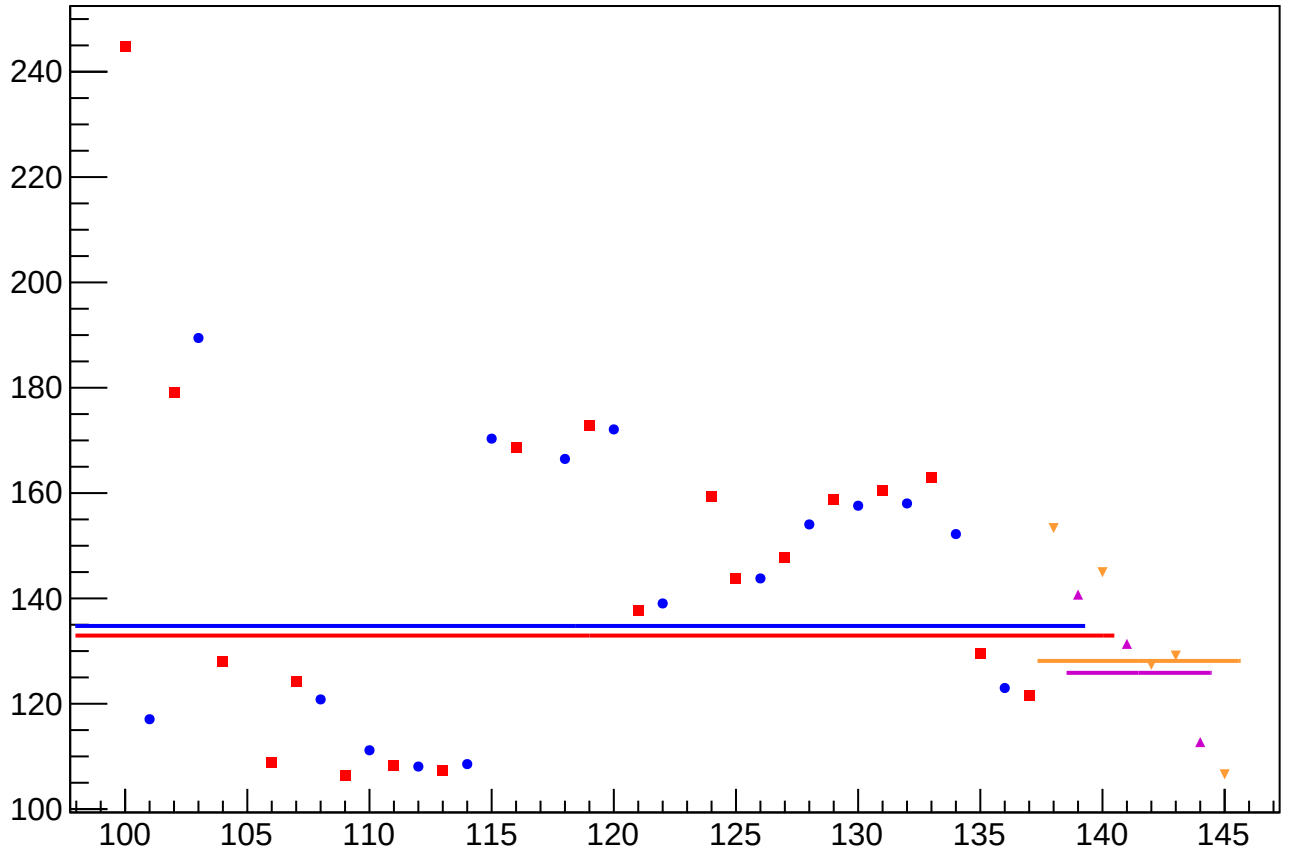
Left: 72.993+/-51.166 $\chi^2$/NDF: 7.6/7

Right: -34.107+/-35.709 $\chi^2$/NDF: 35.9/34

In: -92.784+/-42.798 $\chi^2$/NDF:14.5/18

Out: 83.496+/-40.153 $\chi^2$/NDF:23.0/23

All: 0.973+/-29.283 $\chi^2$/NDF: 46.5/42




Right In: 134.771+/-0.036 $\chi^2$/NDF: 416781.8/15

Left Out: 128.133+/-0.048 $\chi^2$/NDF:129994.8/4

Right Out: 132.947+/-0.035 $\chi^2$/NDF: 498850.6/18

Left In: 125.870+/-0.055 $\chi^2$/NDF:45878.5/2

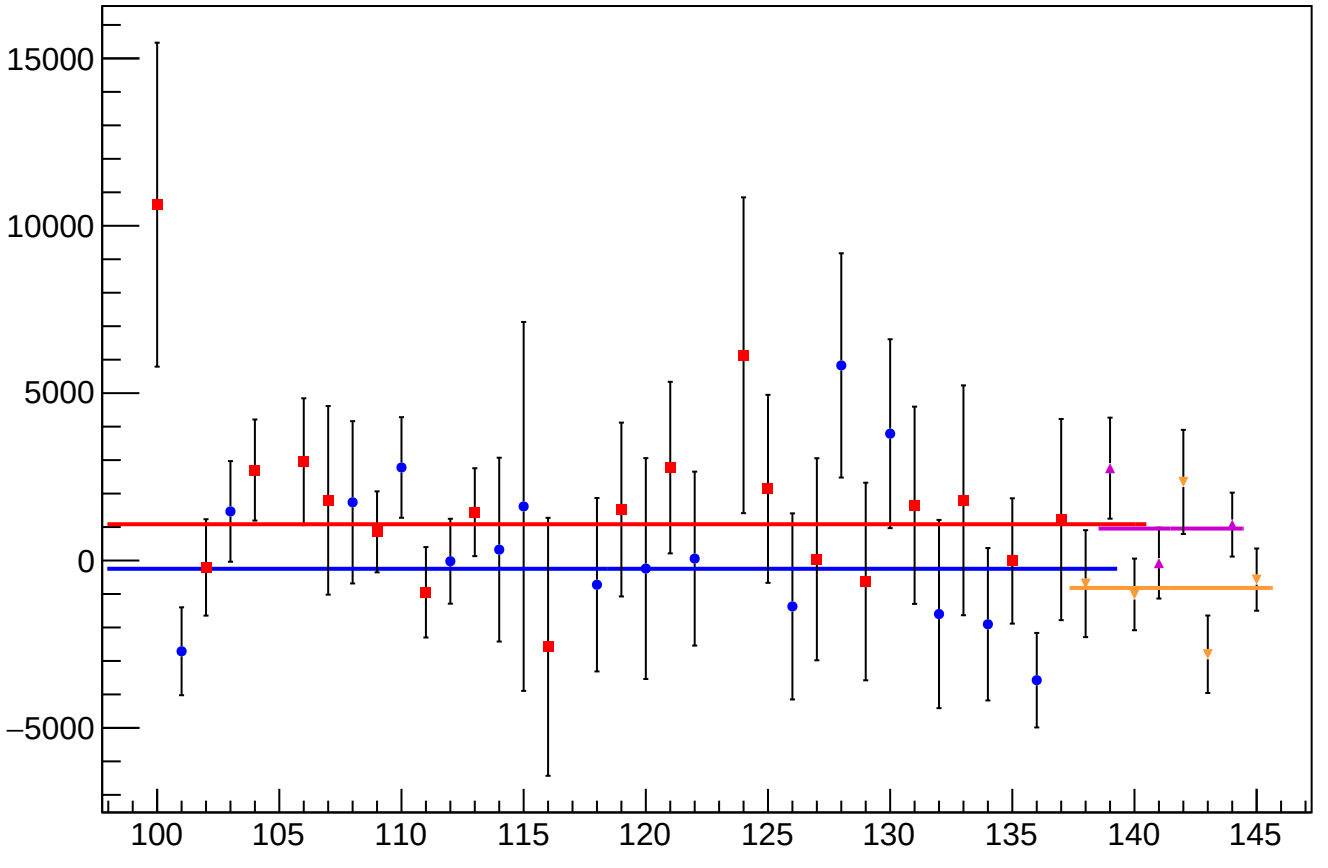
Left: 127.167+/-0.036 $\chi^2$/NDF: 176830.5/7

Right: 133.838+/-0.025 $\chi^2$/NDF: 916936.5/34

In: 132.113+/-0.030 $\chi^2$/NDF:480780.6/18

Out: 131.248+/-0.028 $\chi^2$/NDF:635411.6/23

All: 131.653+/-0.021 $\chi^2$/NDF: 1116627.3/42




Right In: -246.428+/-501.418 $\chi^2$/NDF: 21.6/15

Left Out: -818.573+/-528.328 $\chi^2$/NDF:7.2/4

Right Out: 1084.094+/-469.323 $\chi^2$/NDF: 12.8/18

Left In: 955.431+/-641.786 $\chi^2$/NDF:2.4/2

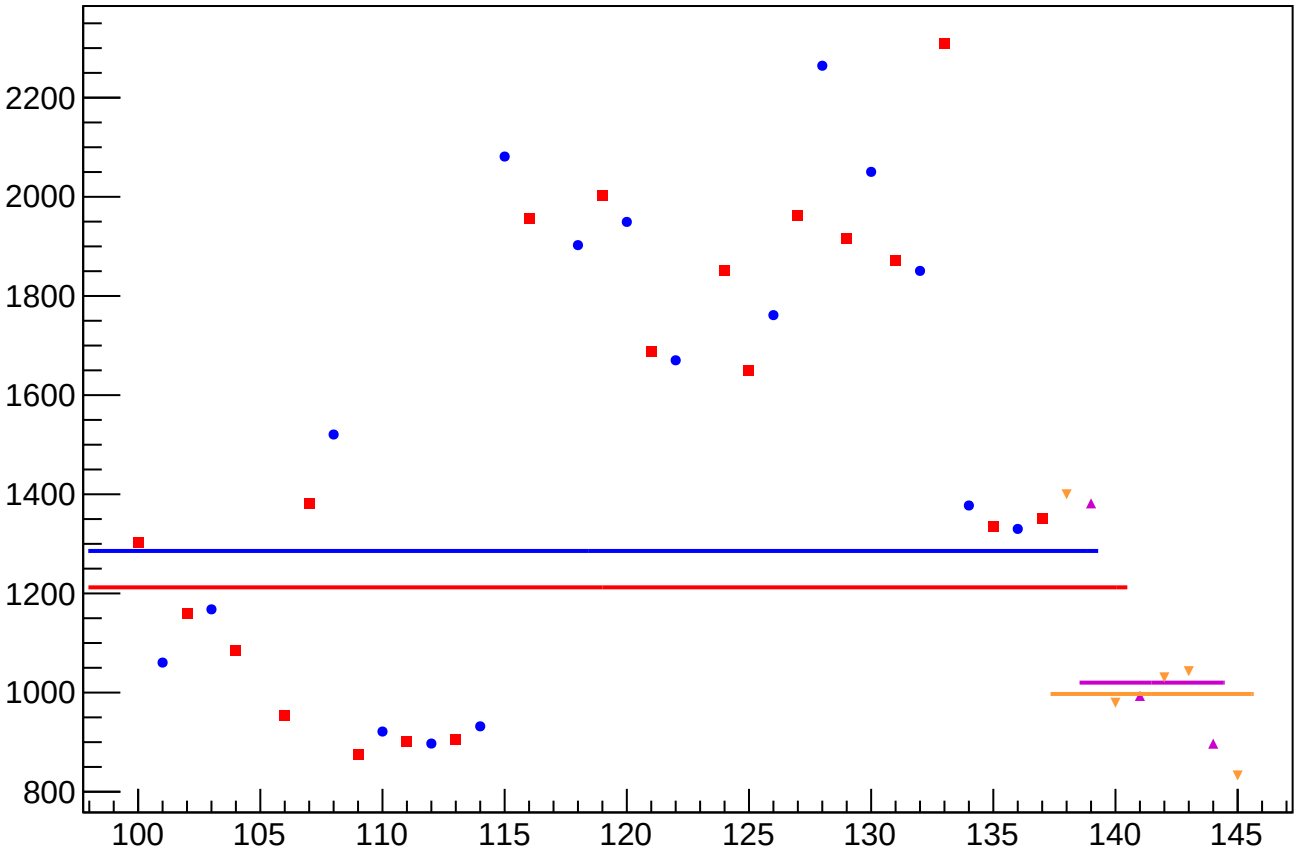
Left: -101.983+/-407.895 $\chi^2$/NDF: 14.1/7

Right: 462.775+/-342.647 $\chi^2$/NDF: 38.1/34

In: 209.123+/-395.123 $\chi^2$/NDF:26.2/18

Out: 244.899+/-350.876 $\chi^2$/NDF:27.2/23

All: 229.125+/-262.362 $\chi^2$/NDF: 53.4/42




Right In: 1285.682+/-0.355 $\chi^2$/NDF: 1170412.5/15

Left Out: 997.229+/-0.374 $\chi^2$/NDF:194245.8/4

Right Out: 1212.276+/-0.332 $\chi^2$/NDF: 1400635.5/18

Left In: 1020.071+/-0.454 $\chi^2$/NDF:149415.6/2

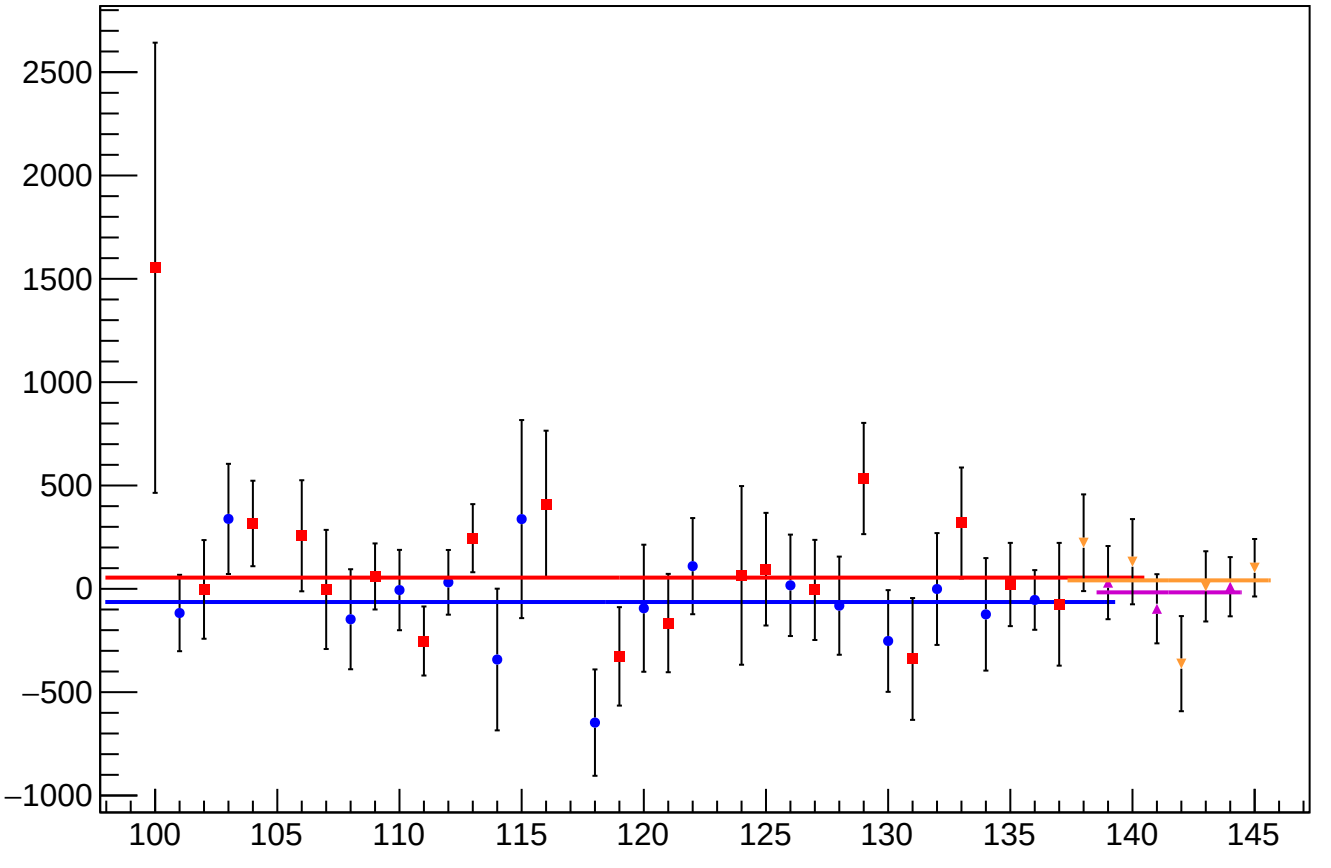
Left: 1006.456+/-0.288 $\chi^2$/NDF: 345171.6/7

Right: 1246.554+/-0.242 $\chi^2$/NDF: 2593895.7/34

In: 1185.005+/-0.279 $\chi^2$/NDF:1532546.3/18

Out: 1117.426+/-0.248 $\chi^2$/NDF:1780086.2/23

All: 1147.221+/-0.186 $\chi^2$/NDF: 3345342.2/42




Right In: -63.781+/-56.734 $\chi^2$/NDF: 10.8/15

Left Out: 40.965+/-82.482 $\chi^2$/NDF:4.1/4

Right Out: 54.305+/-54.743 $\chi^2$/NDF: 19.5/18

Left In: -17.063+/-92.707 $\chi^2$/NDF:0.3/2

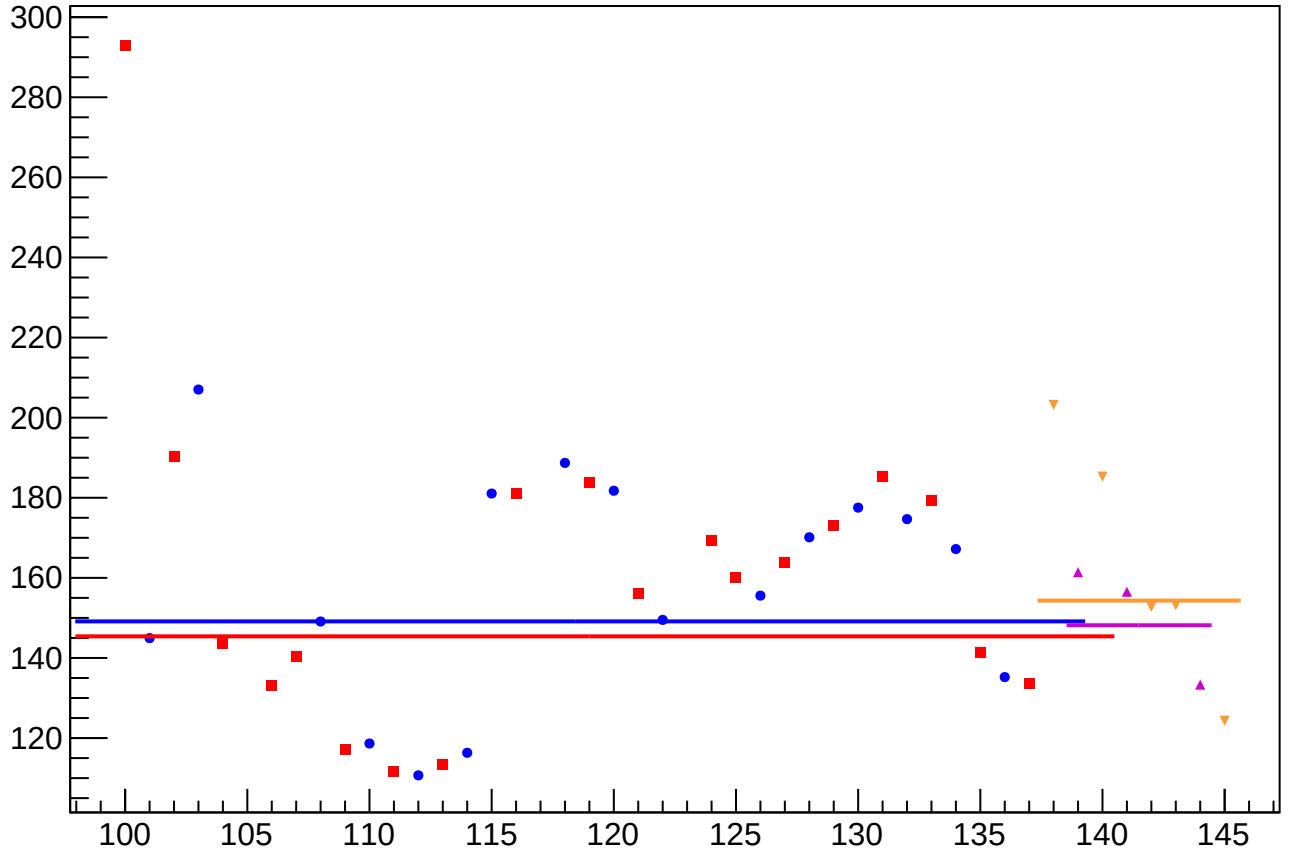
Left: 15.326+/-61.623 $\chi^2$/NDF: 4.6/7

Right: -2.630+/-39.394 $\chi^2$/NDF: 32.6/34

In: -51.052+/-48.391 $\chi^2$/NDF:11.3/18

Out: 50.226+/-45.611 $\chi^2$/NDF:23.6/23

All: 2.579+/-33.191 $\chi^2$/NDF: 37.3/42




Right In: 149.130+/-0.040 $\chi^2$/NDF: 451003.6/15

Left Out: 154.323+/-0.058 $\chi^2$/NDF:225503.1/4

Right Out: 145.399+/-0.039 $\chi^2$/NDF: 525820.0/18

Left In: 148.159+/-0.066 $\chi^2$/NDF:37601.1/2

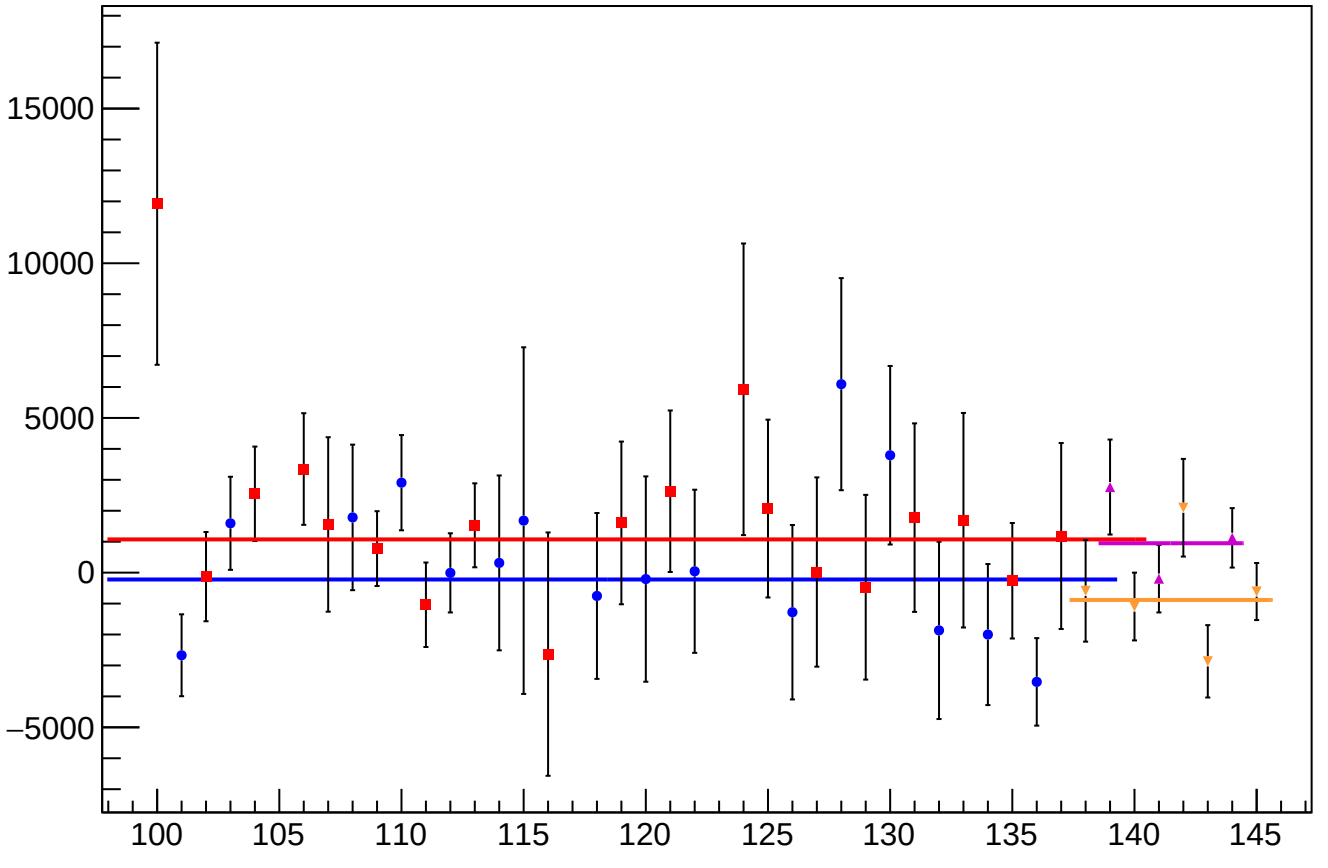
Left: 151.599+/-0.044 $\chi^2$/NDF: 268038.6/7

Right: 147.198+/-0.028 $\chi^2$/NDF: 981303.1/34

In: 148.866+/-0.034 $\chi^2$/NDF:488764.4/18

Out: 148.128+/-0.032 $\chi^2$/NDF:767573.9/23

All: 148.475+/-0.023 $\chi^2$/NDF: 1256584.5/42




Right In: -221.240+/-506.202 $\chi^2$/NDF: 21.9/15

Left Out: -883.288+/-533.645 $\chi^2$/NDF:6.6/4

Right Out: 1074.433+/-472.816 $\chi^2$/NDF: 13.6/18

Left In: 949.933+/-652.949 $\chi^2$/NDF:2.5/2

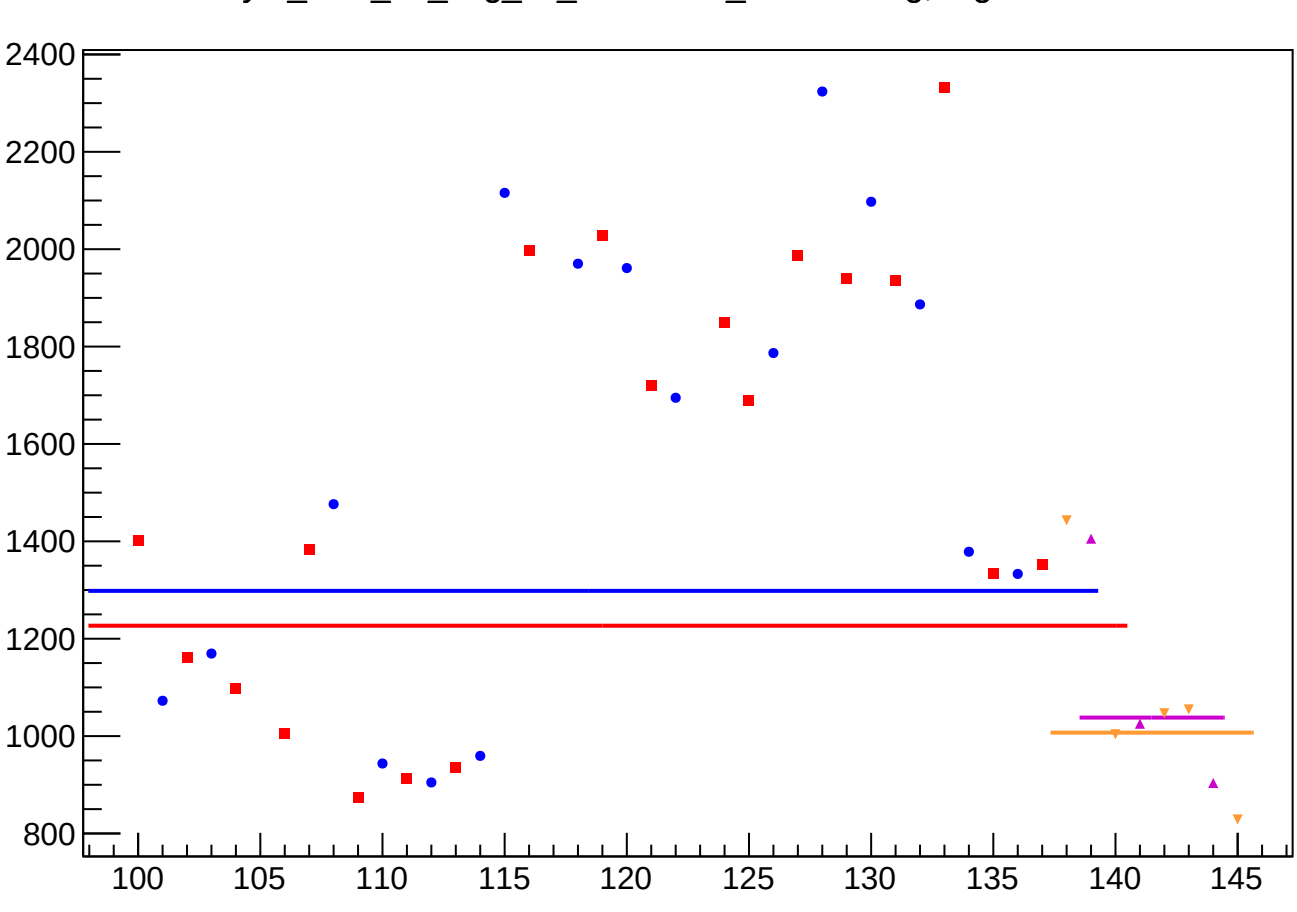
Left: -149.150+/-413.200 $\chi^2$/NDF: 13.9/7

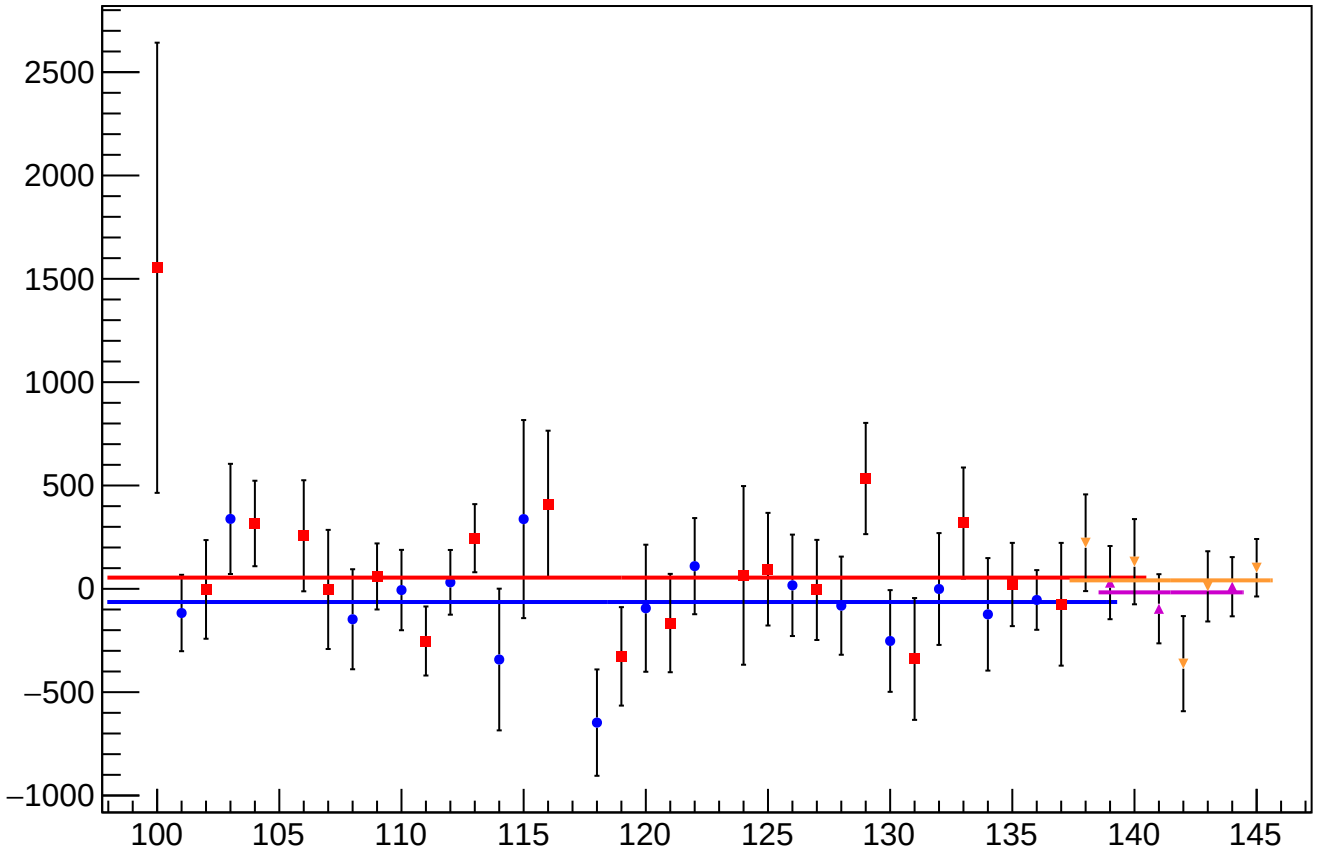
Right: 470.729+/-345.532 $\chi^2$/NDF: 39.0/34

In: 218.416+/-400.060 $\chi^2$/NDF:26.4/18

Out: 213.463+/-353.892 $\chi^2$/NDF:27.8/23

All: 215.638+/-265.066 $\chi^2$/NDF: 54.1/42


asym_sam_48_avg_dit_correction_rms vs Slug, Sign Corrected
2400
2200
2000
1800
1600
1400
1200
1000
800
100
105
110
115
120
125
130
135
140
145
Right In: 1298.293+/-0.358 χ²/NDF: 1182123.0/15
Left Out: 1007.157+/-0.377 χ²/NDF:220339.8/4
Right Out: 1226.729+/-0.334 χ²/NDF: 1404521.7/18
Left In: 1038.019+/-0.462 χ²/NDF:153901.6/2
Left: 1019.516+/-0.292 χ²/NDF: 376920.2/7
Right: 1260.073+/-0.244 χ²/NDF: 2607993.3/34
In: 1200.587+/-0.283 χ²/NDF:1534513.7/18
Out: 1130.165+/-0.250 χ²/NDF:1814547.1/23
All: 1161.080+/-0.187 χ²/NDF: 3383827.3/42




Right In: -63.778+/-56.734 $\chi^2$/NDF: 10.8/15

Left Out: 40.965+/-82.482 $\chi^2$/NDF:4.1/4

Right Out: 54.304+/-54.743 $\chi^2$/NDF: 19.5/18

Left In: -17.062+/-92.708 $\chi^2$/NDF:0.3/2

Left: 15.327+/-61.623 $\chi^2$/NDF: 4.6/7

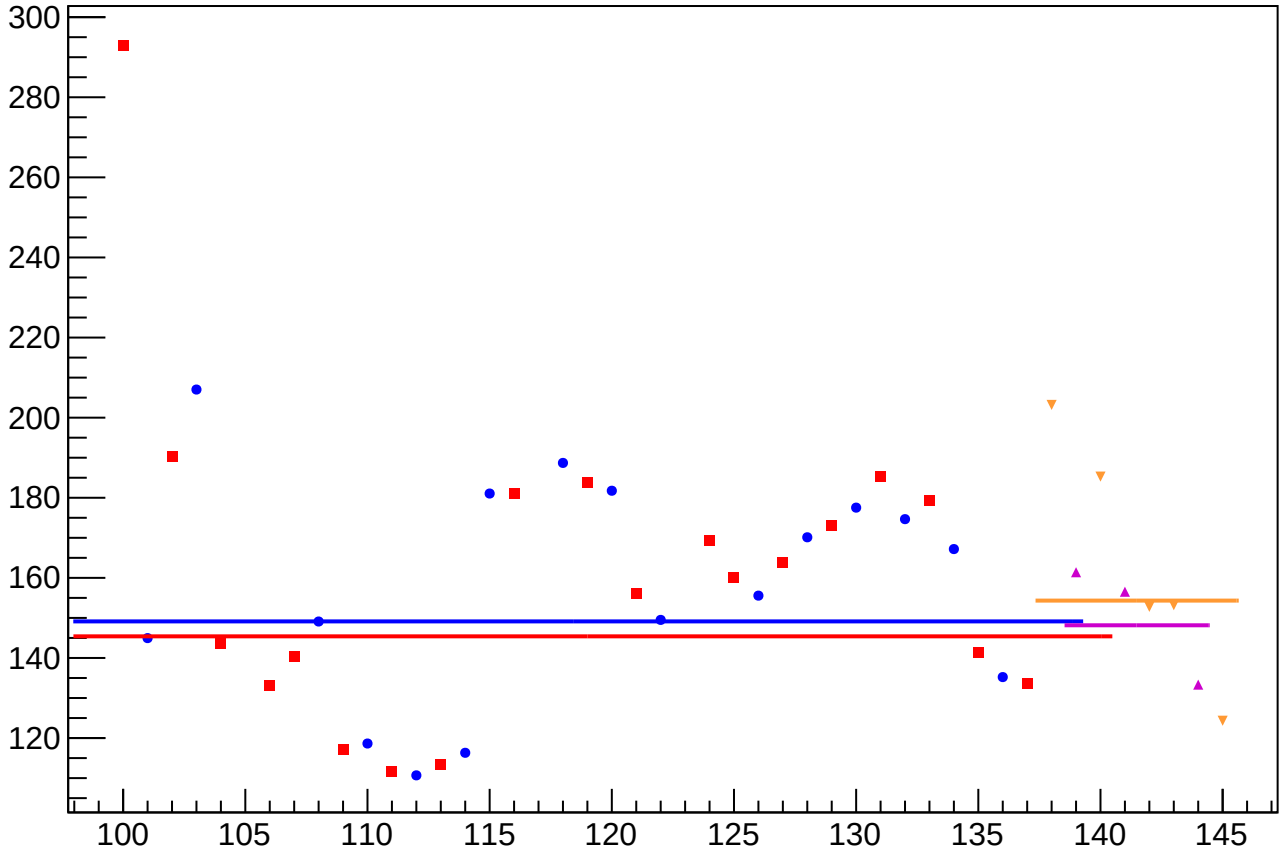
Right: -2.629+/-39.394 $\chi^2$/NDF: 32.6/34

In: -51.050+/-48.391 $\chi^2$/NDF:11.3/18

Out: 50.225+/-45.611 $\chi^2$/NDF:23.6/23

All: 2.580+/-33.191 $\chi^2$/NDF: 37.3/42

# eigen_dit_asym_sam_48_avg_rms vs Slug, Sign Corrected




Right In: 149.130+/-0.040 $\chi^2$/NDF: 451005.1/15

Left Out: 154.323+/-0.058 $\chi^2$/NDF:225497.3/4

Right Out: 145.399+/-0.039 $\chi^2$/NDF: 525822.2/18

Left In: 148.159+/-0.066 $\chi^2$/NDF:37599.3/2

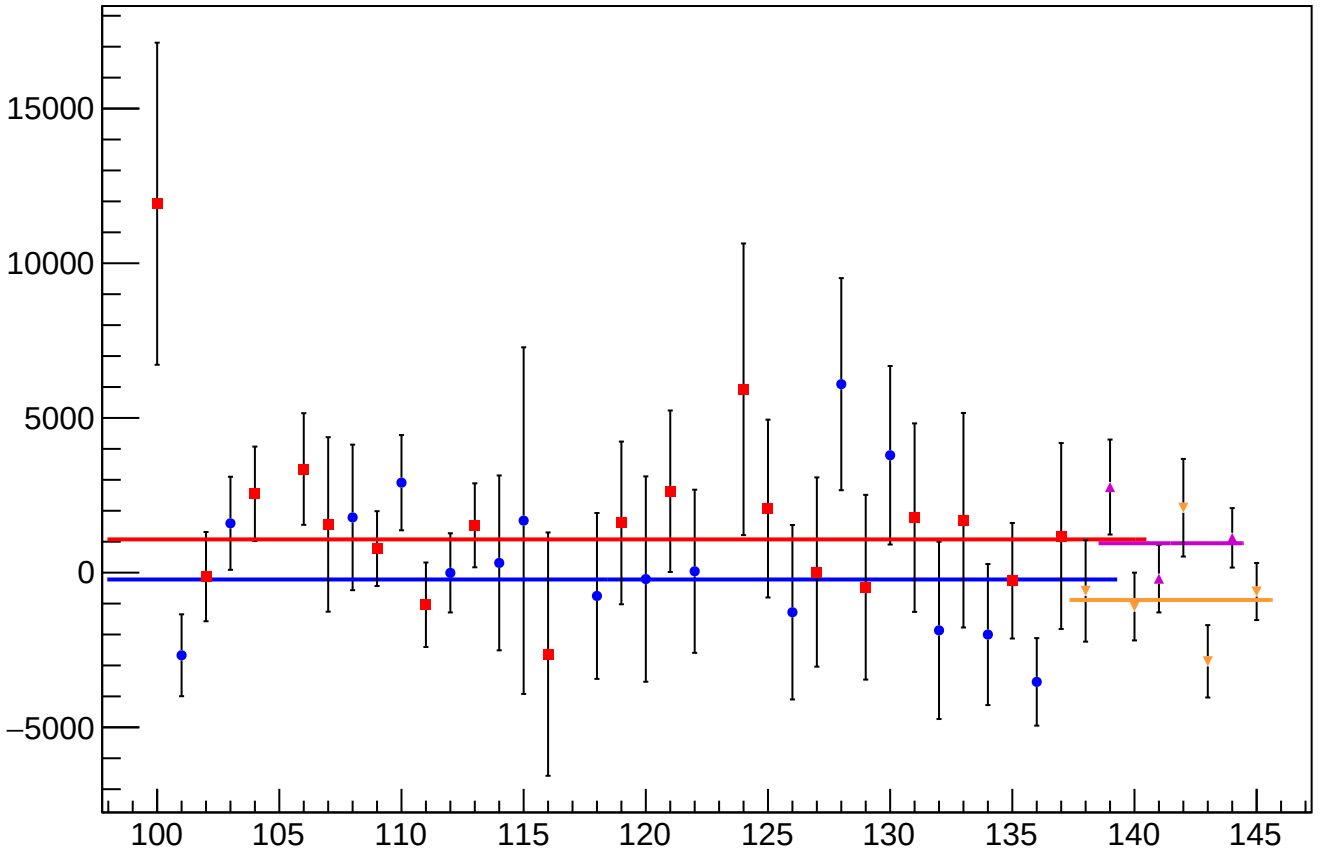
Left: 151.600+/-0.044 $\chi^2$/NDF: 268031.4/7

Right: 147.198+/-0.028 $\chi^2$/NDF: 981307.0/34

In: 148.866+/-0.034 $\chi^2$/NDF:488764.0/18

Out: 148.128+/-0.032 $\chi^2$/NDF:767572.3/23

All: 148.475+/-0.023 $\chi^2$/NDF: 1256582.4/42




Right In: -221.239+/-506.201 $\chi^2$/NDF: 21.9/15

Left Out: -883.289+/-533.644 $\chi^2$/NDF:6.6/4

Right Out: 1074.432+/-472.816 $\chi^2$/NDF: 13.6/18

Left In: 949.932+/-652.948 $\chi^2$/NDF:2.5/2

Left: -149.151+/-413.199 $\chi^2$/NDF: 13.9/7

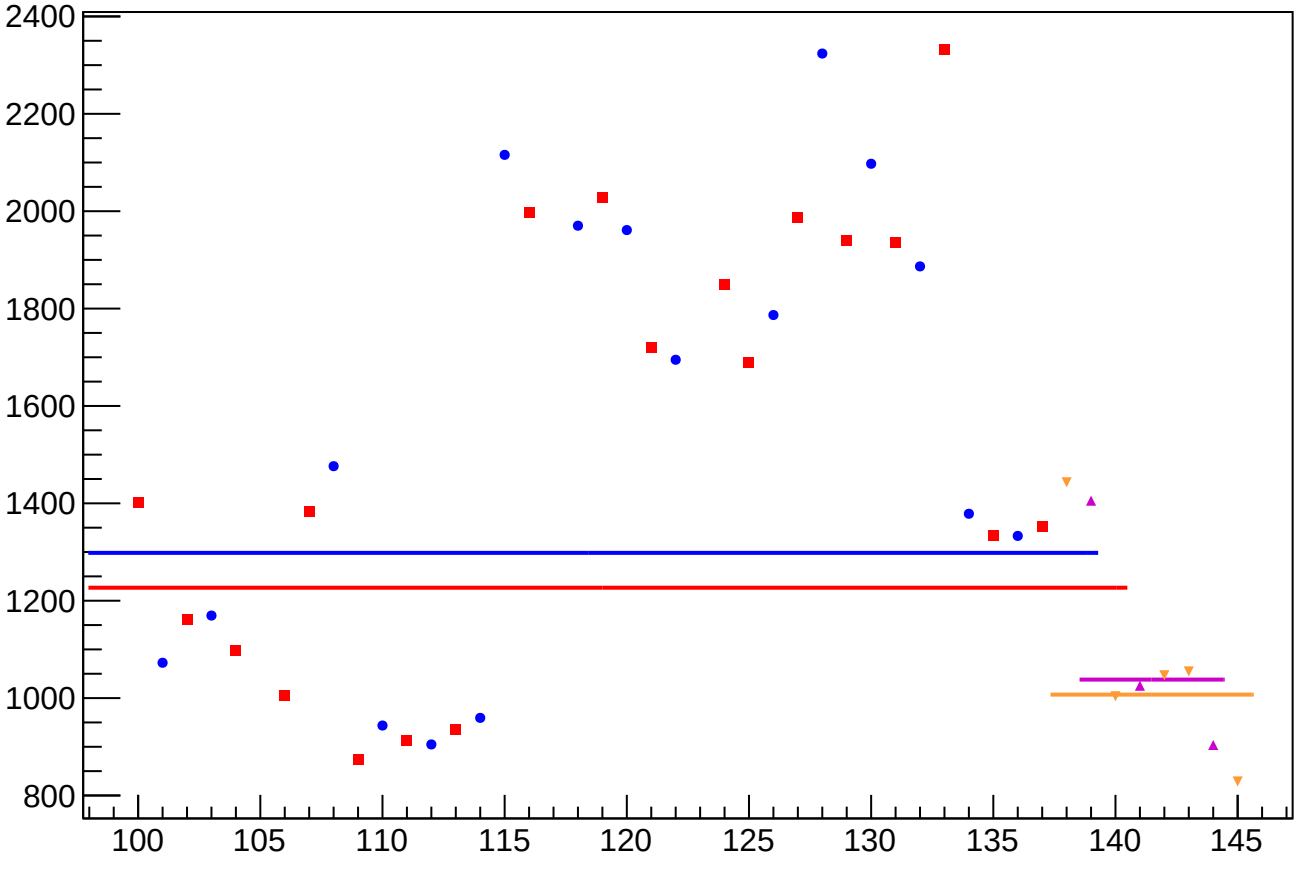
Right: 470.728+/-345.531 $\chi^2$/NDF: 39.0/34

In: 218.417+/-400.059 $\chi^2$/NDF:26.4/18

Out: 213.461+/-353.892 $\chi^2$/NDF:27.8/23

All: 215.637+/-265.066 $\chi^2$/NDF: 54.1/42

asym_sam_48_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1298.292+/-0.358 $\chi^2$/NDF: 1182127.2/15

Left Out: 1007.155+/-0.377 $\chi^2$/NDF:220340.9/4

Right Out: 1226.727+/-0.334 $\chi^2$/NDF: 1404524.7/18

Left In: 1038.018+/-0.462 $\chi^2$/NDF:153901.5/2

Left: 1019.514+/-0.292 $\chi^2$/NDF: 376921.3/7

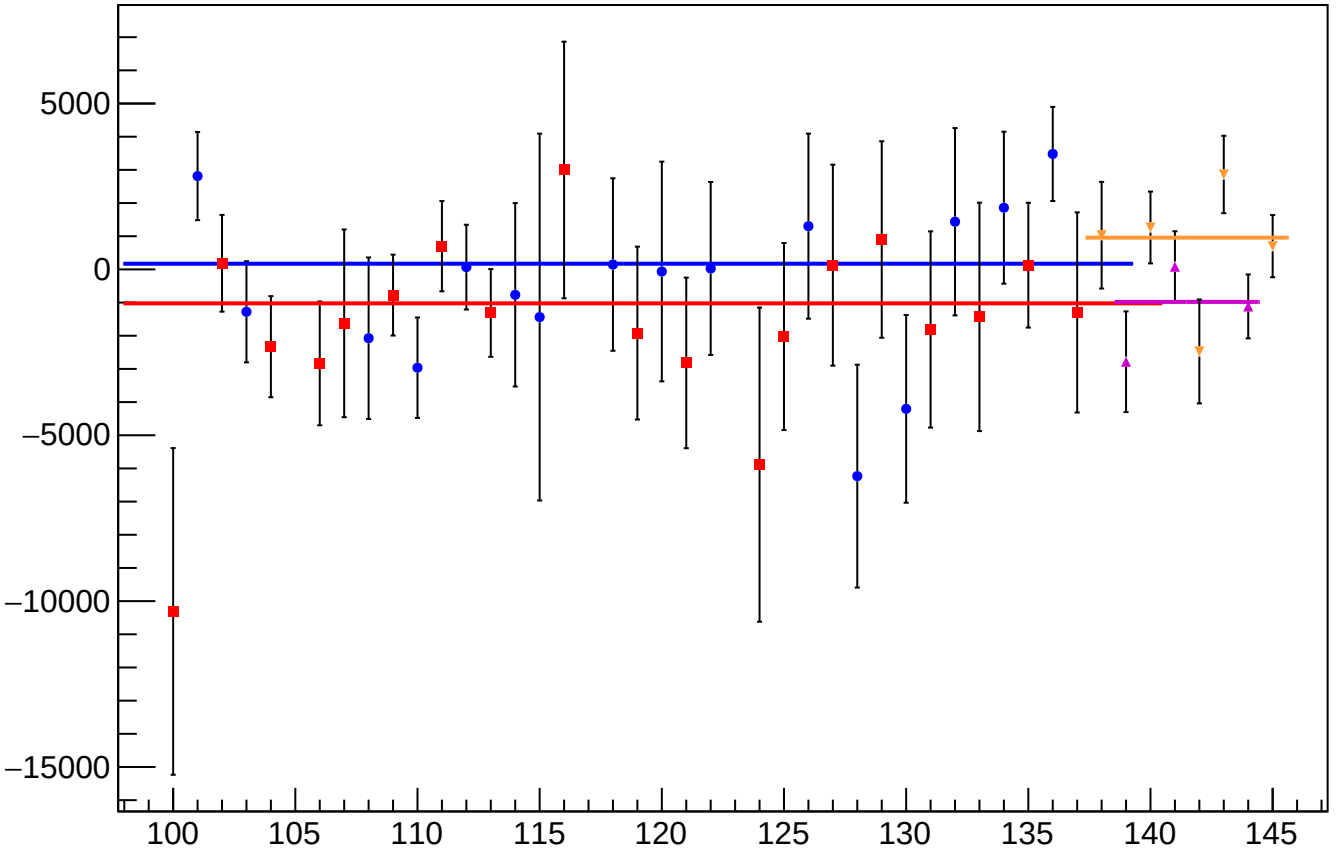
Right: 1260.072+/-0.244 $\chi^2$/NDF: 2608000.5/34

In: 1200.585+/-0.283 $\chi^2$/NDF:1534518.5/18

Out: 1130.163+/-0.250 $\chi^2$/NDF:1814553.0/23

All: 1161.078+/-0.187 $\chi^2$/NDF: 3383838.4/42

# asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: 171.056+/-505.136 $\chi^2$/NDF: 22.6/15

Left Out: 956.816+/-532.879 $\chi^2$/NDF:7.6/4

Right Out: -1023.699+/-472.008 $\chi^2$/NDF: 11.6/18

Left In: -980.046+/-646.820 $\chi^2$/NDF:2.4/2

Left: 173.726+/-411.282 $\chi^2$/NDF: 15.4/7

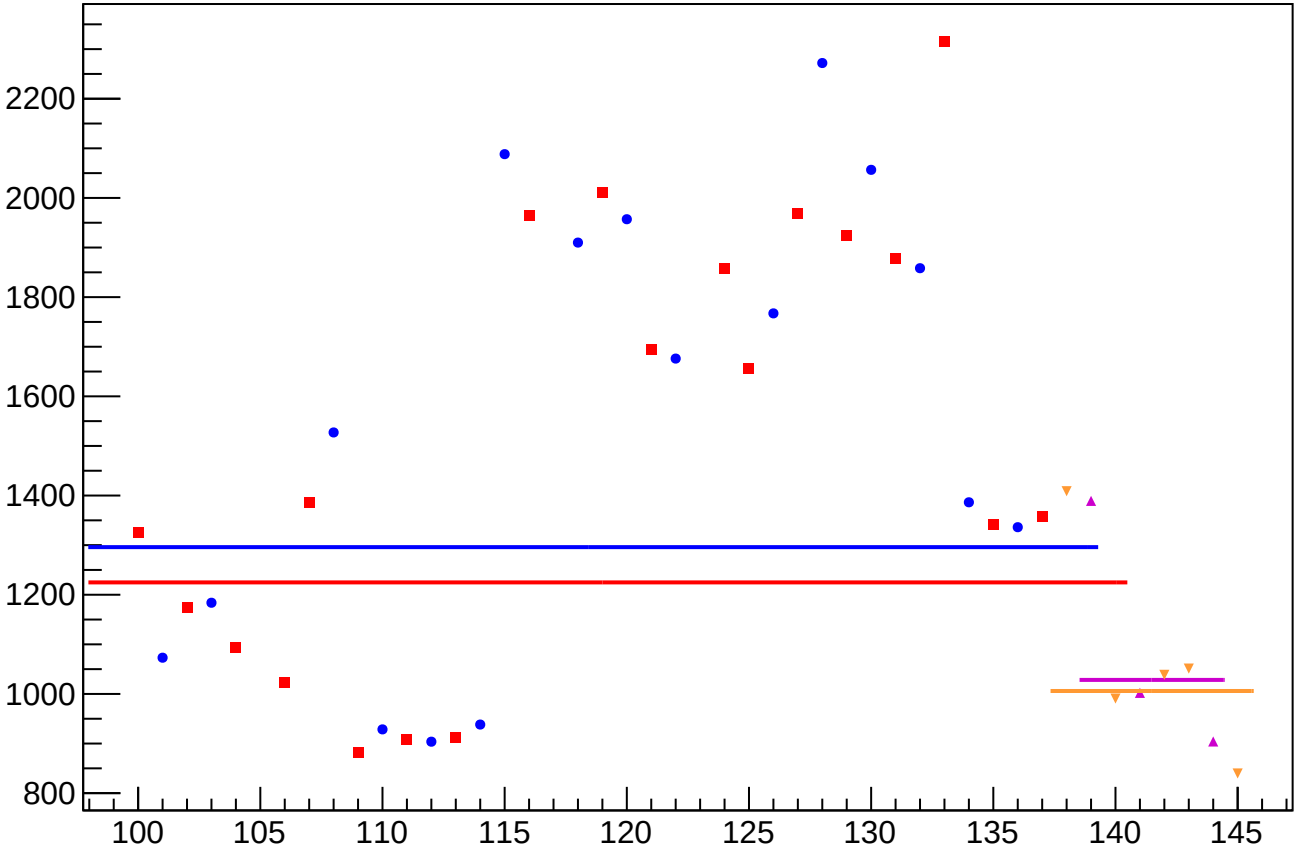
Right: -466.780+/-344.877 $\chi^2$/NDF: 37.1/34

In: -265.026+/-398.117 $\chi^2$/NDF:27.0/18

Out: -152.972+/-353.330 $\chi^2$/NDF:26.9/23

All: -202.344+/-264.264 $\chi^2$/NDF: 53.9/42

# asym_sam_48_avg_rms vs Slug, Sign Corrected




Right In: 1295.987+/-0.357 $\chi^2$/NDF: 1154185.9/15

Left Out: 1005.960+/-0.377 $\chi^2$/NDF:192783.3/4

Right Out: 1224.872+/-0.334 $\chi^2$/NDF: 1371285.2/18

Left In: 1028.301+/-0.457 $\chi^2$/NDF:147679.8/2

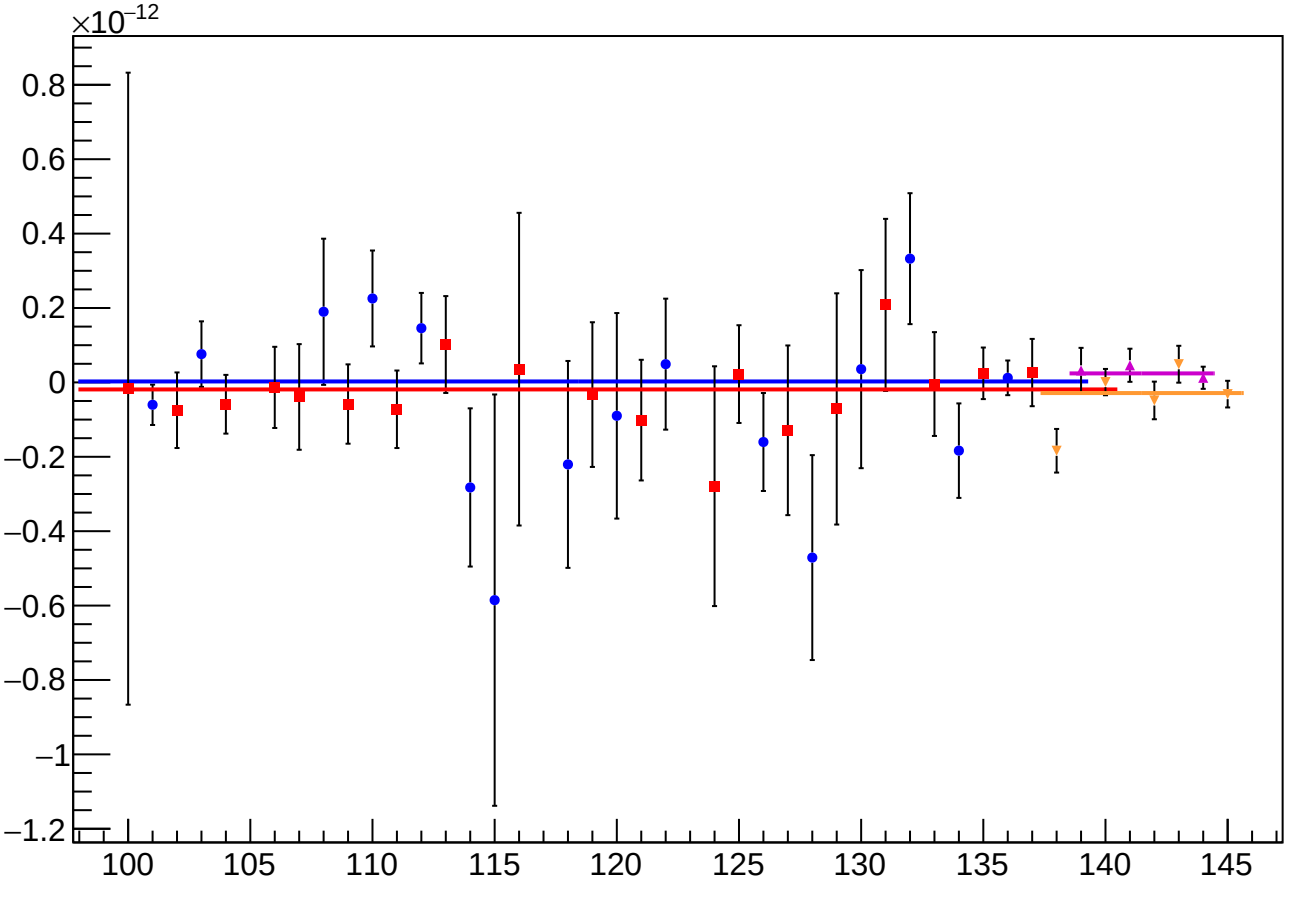
Left: 1014.993+/-0.291 $\chi^2$/NDF: 341884.3/7

Right: 1258.021+/-0.244 $\chi^2$/NDF: 2546633.6/34

In: 1194.577+/-0.282 $\chi^2$/NDF:1514640.6/18

Out: 1128.628+/-0.250 $\chi^2$/NDF:1753203.0/23

All: 1157.686+/-0.187 $\chi^2$/NDF: 3298543.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.3/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 4.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.4/2

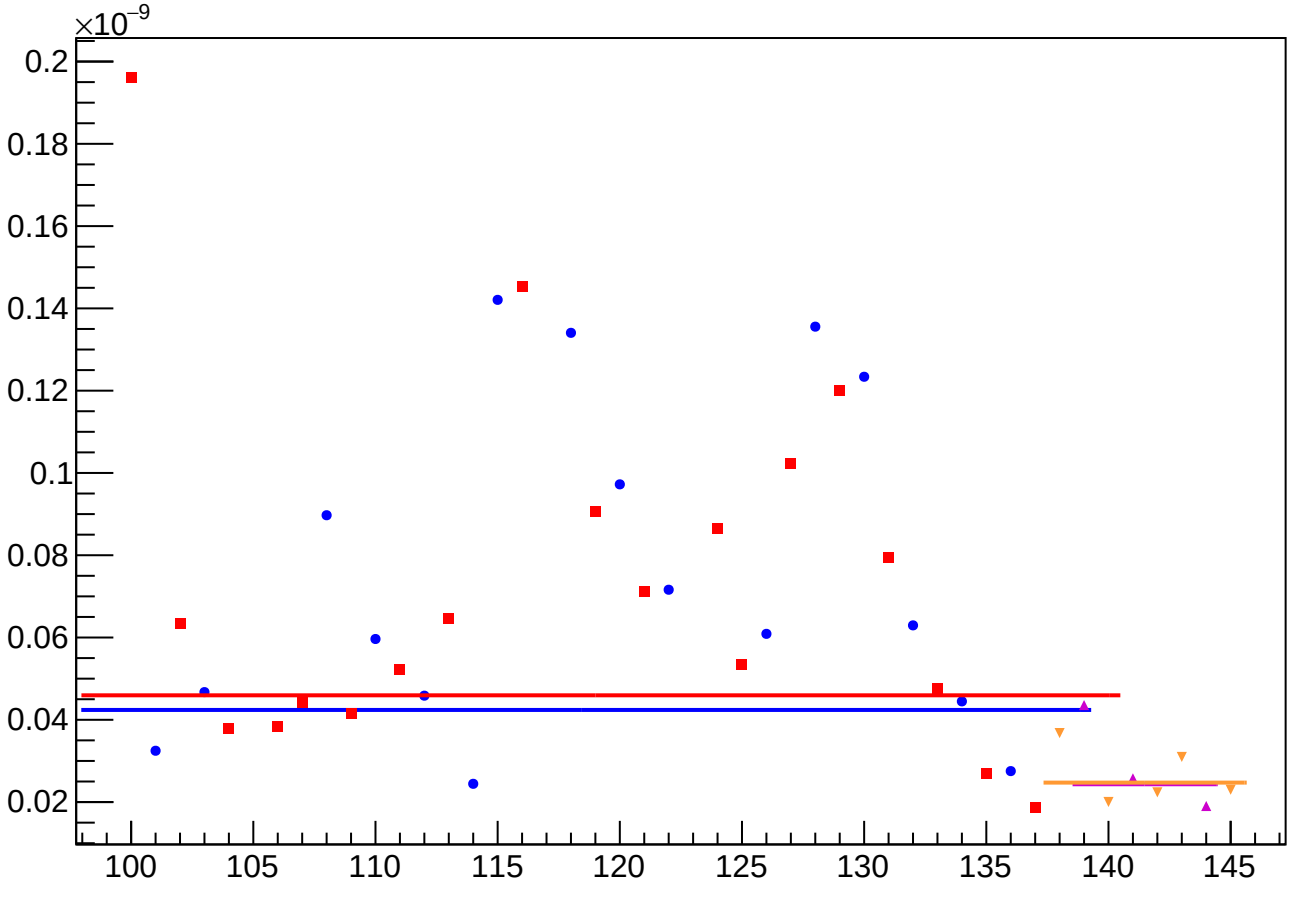
Left: -0.000+/-0.000 $\chi^2$/NDF: 13.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 27.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:23.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:15.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 41.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1341259.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:160486.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1118551.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:266741.5/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 427586.2/7

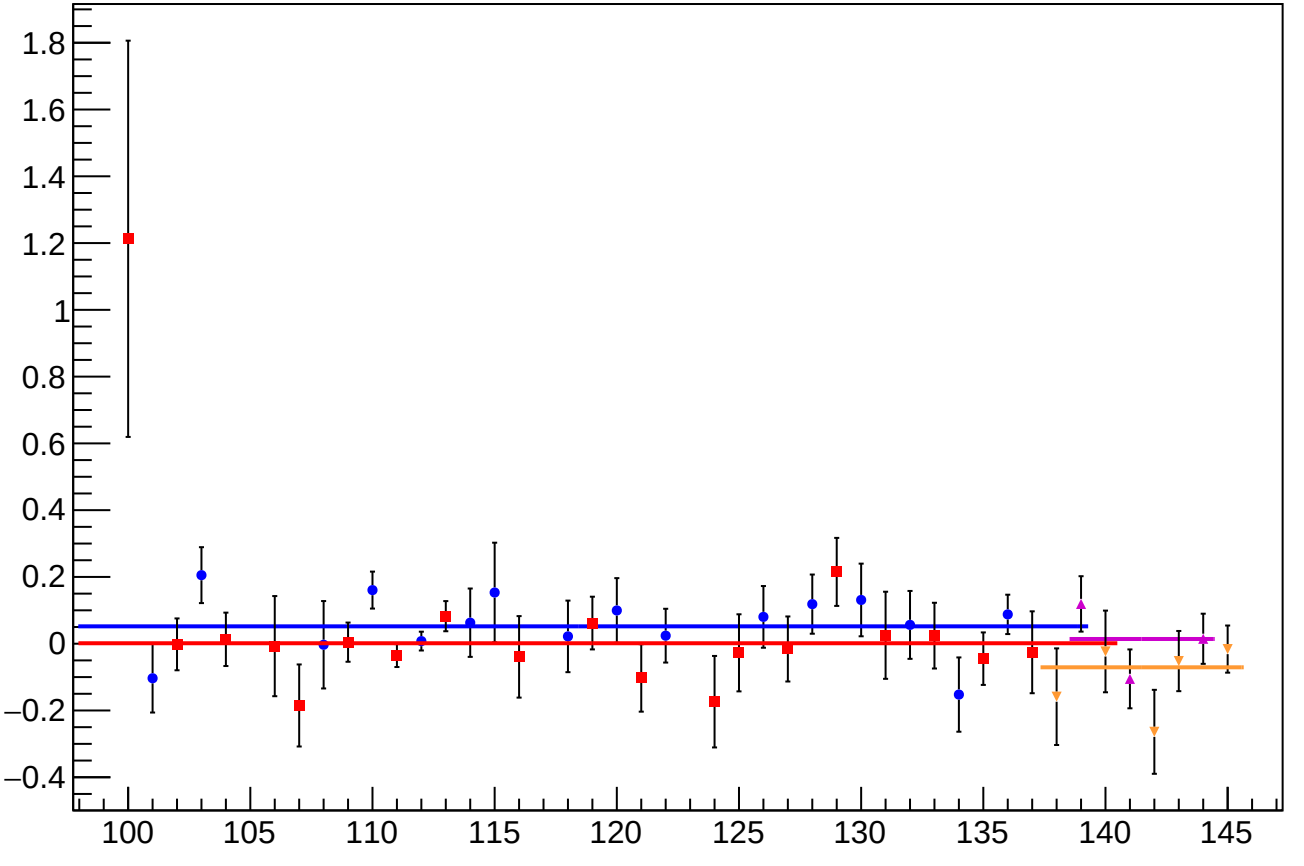
Right: 0.000+/-0.000 $\chi^2$/NDF: 2476096.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:2132304.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2023755.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4157491.8/42

asym_sam_48_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.071+/-0.045 $\chi^2$/NDF:3.5/4

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.014+/-0.047 $\chi^2$/NDF:3.4/2

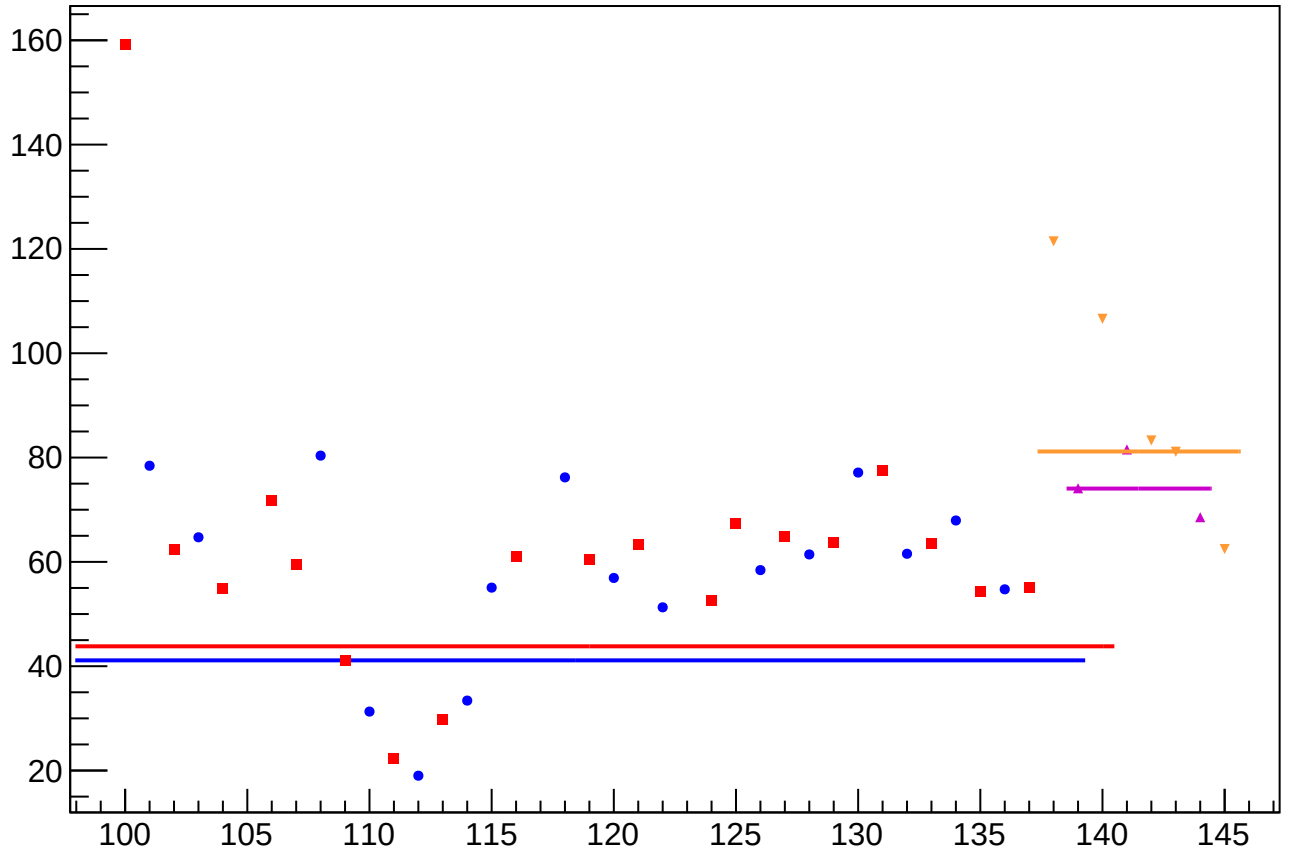
Left: -0.031+/-0.032 $\chi^2$/NDF: 8.7/7

Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.047+/-0.017 $\chi^2$/NDF:22.0/18

Out: -0.009+/-0.017 $\chi^2$/NDF:25.0/23

All: 0.019+/-0.012 $\chi^2$/NDF: 52.6/42




Right In: 41.120+/-0.013 $\chi^2$/NDF: 2925302.3/15

Left Out: 81.167+/-0.032 $\chi^2$/NDF:382404.2/4

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048452.0/18

Left In: 74.057+/-0.033 $\chi^2$/NDF:25146.6/2

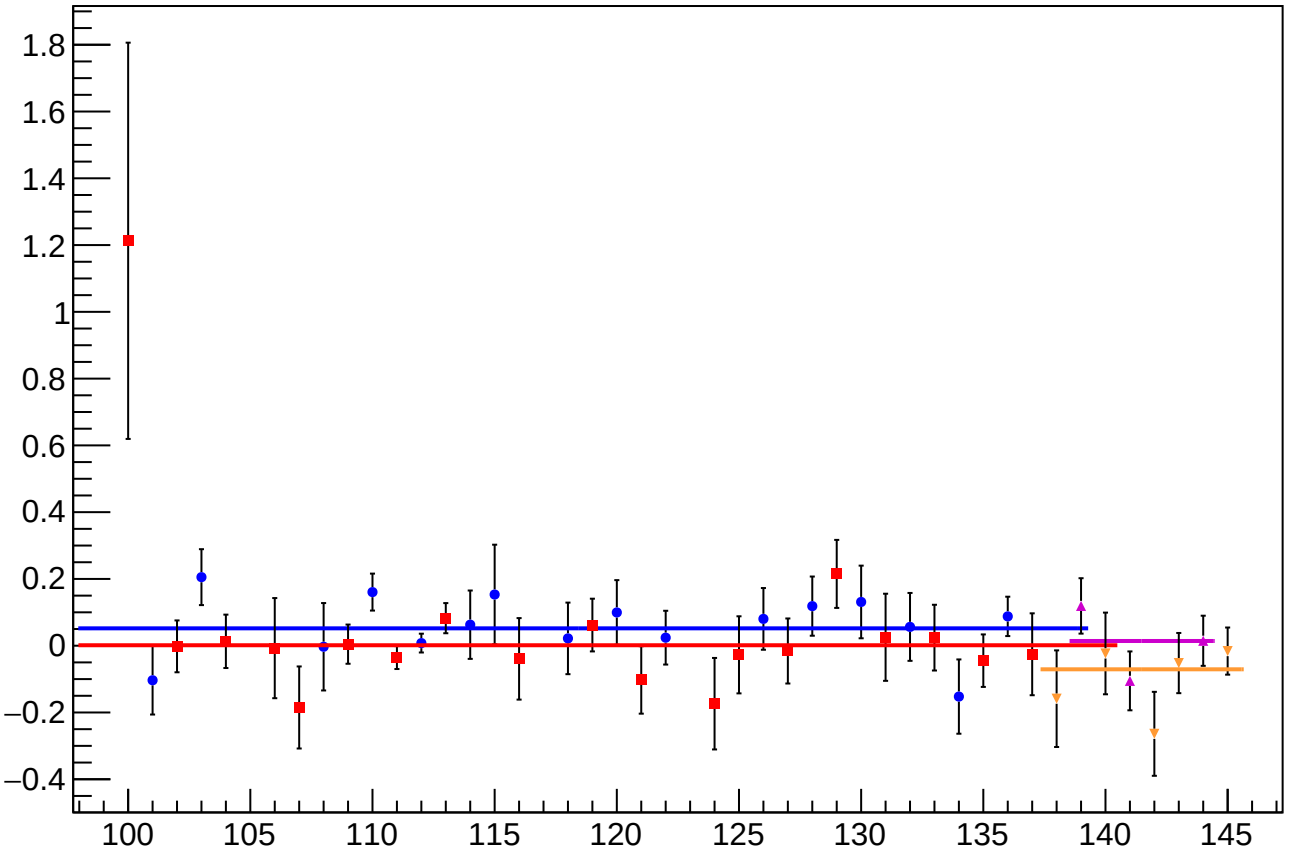
Left: 77.800+/-0.023 $\chi^2$/NDF: 431560.8/7

Right: 42.455+/-0.009 $\chi^2$/NDF: 4996519.9/34

In: 45.228+/-0.012 $\chi^2$/NDF:3807230.8/18

Out: 48.998+/-0.012 $\chi^2$/NDF:3636043.0/23

All: 47.112+/-0.008 $\chi^2$/NDF: 7494657.5/42




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.071+/-0.045 $\chi^2$/NDF:3.5/4

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.014+/-0.047 $\chi^2$/NDF:3.4/2

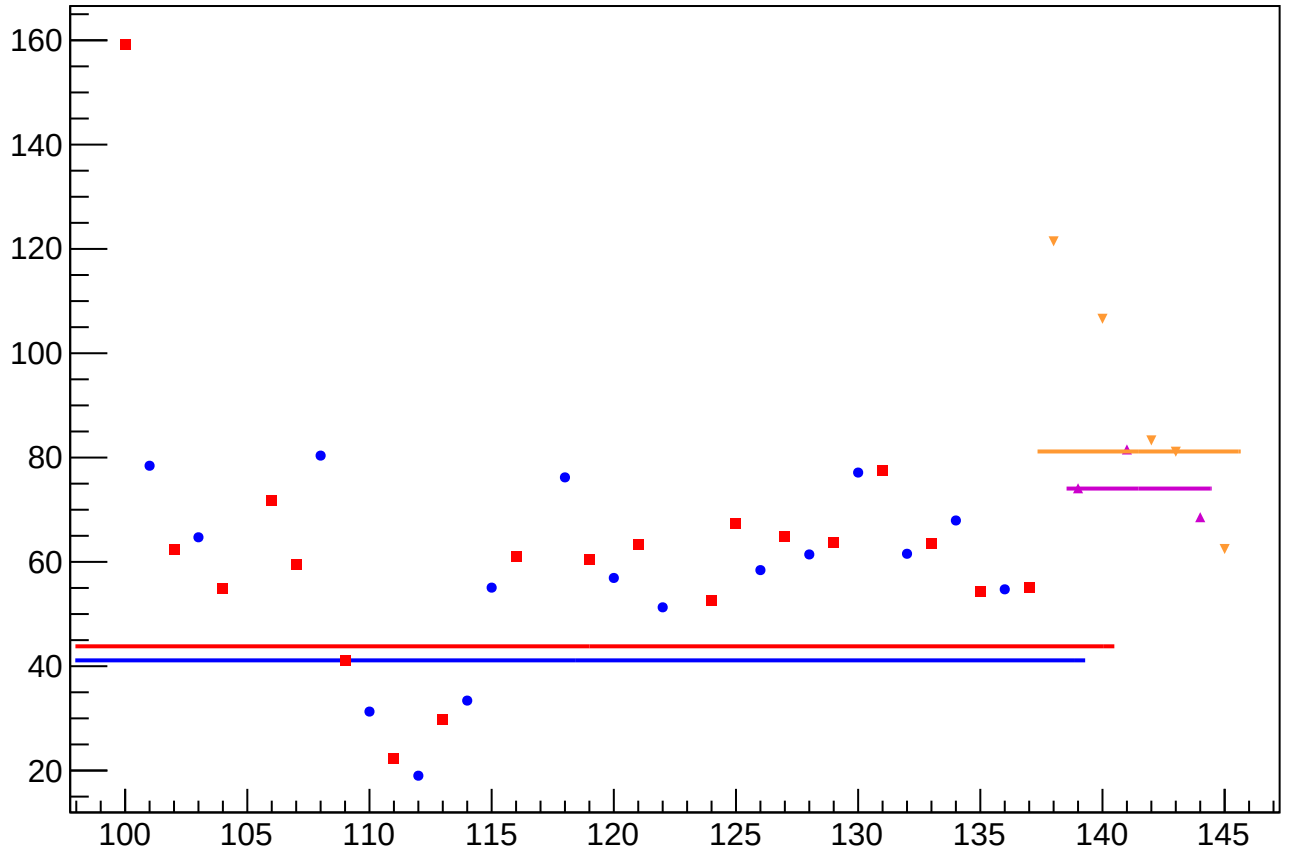
Left: -0.031+/-0.032 $\chi^2$/NDF: 8.7/7

Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.047+/-0.017 $\chi^2$/NDF:22.0/18

Out: -0.009+/-0.017 $\chi^2$/NDF:25.0/23

All: 0.019+/-0.012 $\chi^2$/NDF: 52.6/42




Right In: 41.120+/-0.013 $\chi^2$/NDF: 2925302.3/15

Left Out: 81.167+/-0.032 $\chi^2$/NDF:382404.2/4

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048452.0/18

Left In: 74.057+/-0.033 $\chi^2$/NDF:25146.6/2

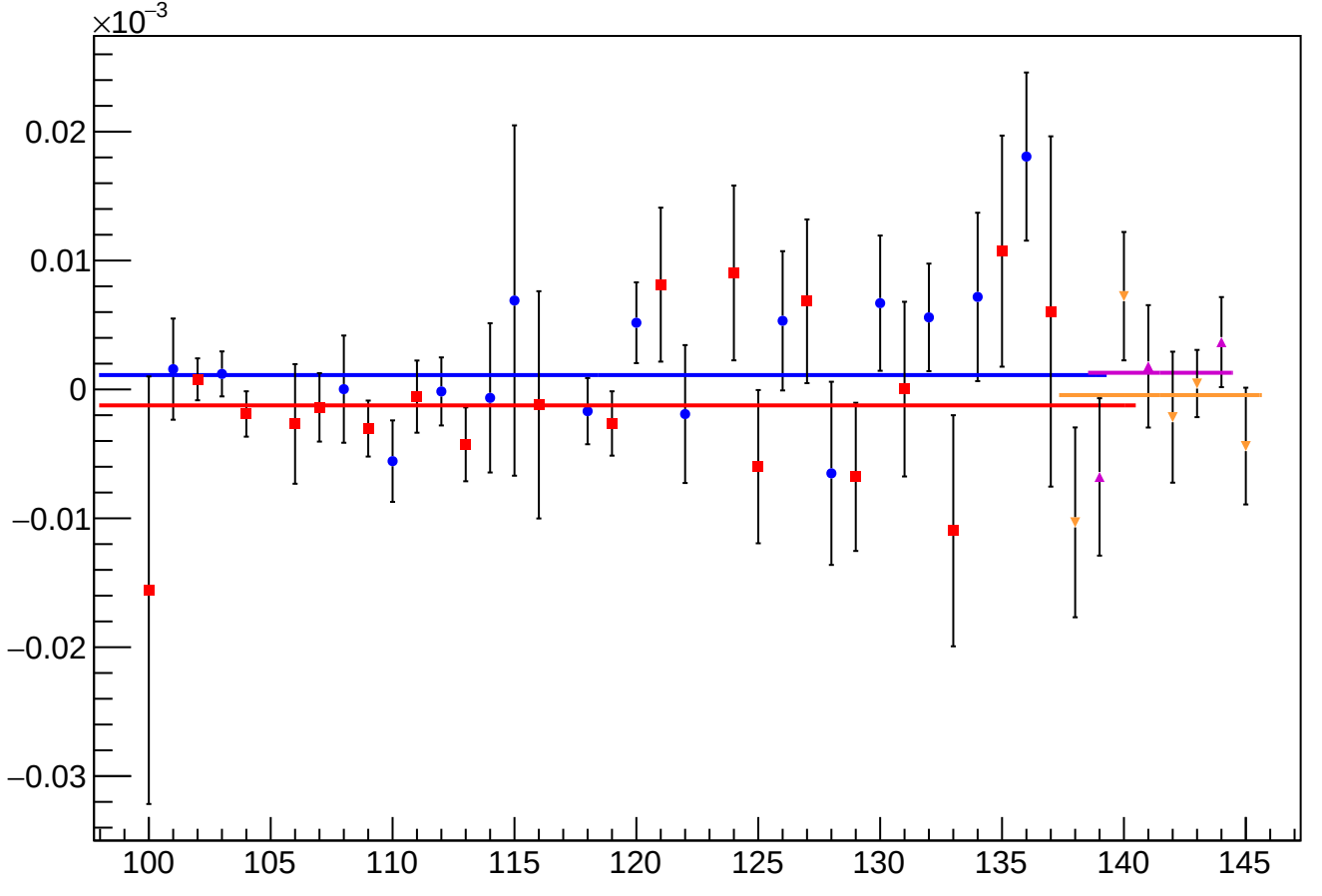
Left: 77.800+/-0.023 $\chi^2$/NDF: 431560.8/7

Right: 42.455+/-0.009 $\chi^2$/NDF: 4996519.9/34

In: 45.228+/-0.012 $\chi^2$/NDF:3807230.8/18

Out: 48.998+/-0.012 $\chi^2$/NDF:3636043.0/23

All: 47.112+/-0.008 $\chi^2$/NDF: 7494657.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.2/2

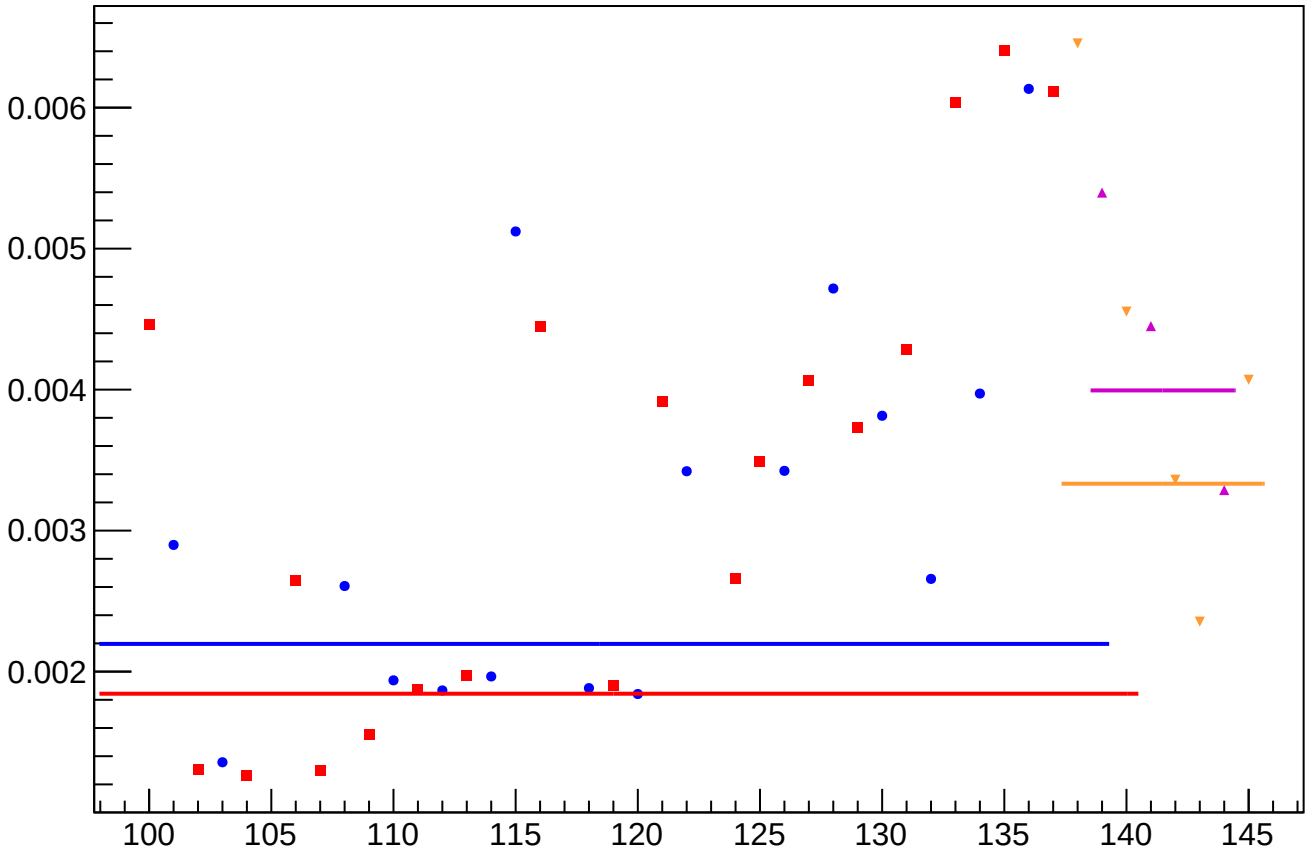
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:22.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:21.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 47.5/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2292909.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:814339.6/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3137598.0/18

Left In: 0.004+/-0.000 $\chi^2$/NDF:205925.0/2

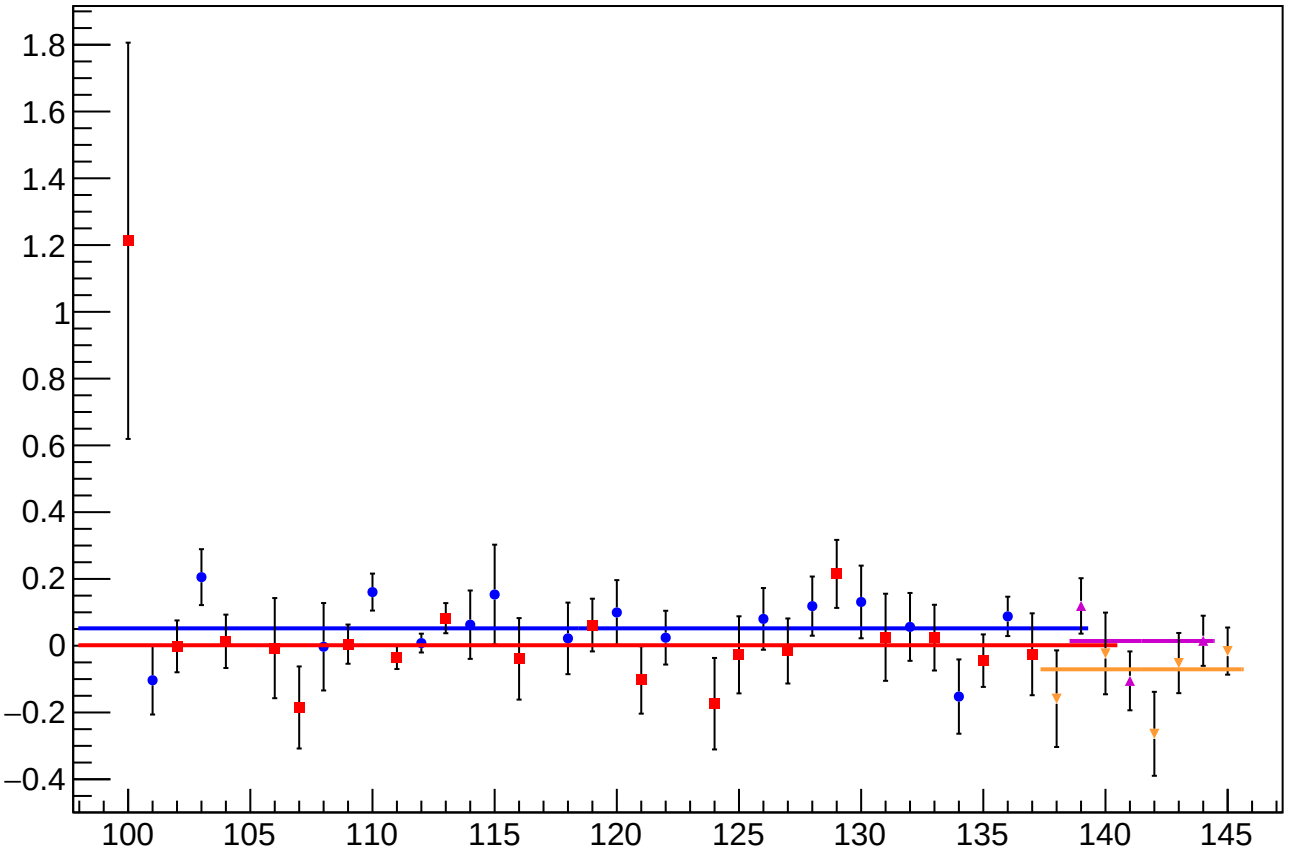
Left: 0.004+/-0.000 $\chi^2$/NDF: 1108347.6/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 5607793.8/34

In: 0.002+/-0.000 $\chi^2$/NDF:3377671.1/18

Out: 0.002+/-0.000 $\chi^2$/NDF:5062841.0/23

All: 0.002+/-0.000 $\chi^2$/NDF: 8625213.3/42




Right In: 0.052+/-0.018 $\chi^2$/NDF: 18.0/15

Left Out: -0.071+/-0.045 $\chi^2$/NDF:3.5/4

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.014+/-0.047 $\chi^2$/NDF:3.4/2

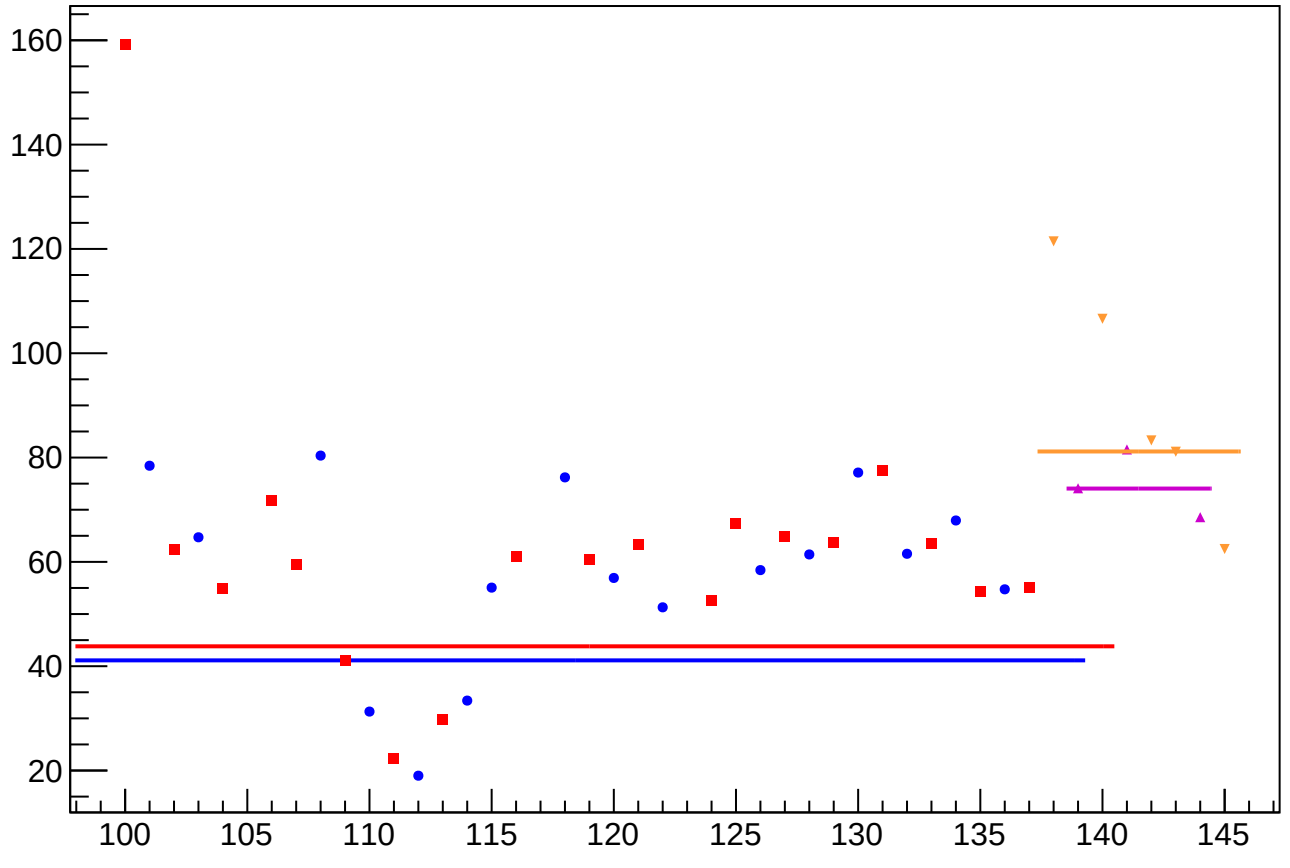
Left: -0.031+/-0.032 $\chi^2$/NDF: 8.7/7

Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.047+/-0.017 $\chi^2$/NDF:22.0/18

Out: -0.009+/-0.017 $\chi^2$/NDF:25.0/23

All: 0.019+/-0.012 $\chi^2$/NDF: 52.6/42




Right In: 41.119+/-0.013 $\chi^2$/NDF: 2925464.8/15

Left Out: 81.168+/-0.032 $\chi^2$/NDF:382375.9/4

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048627.9/18

Left In: 74.057+/-0.033 $\chi^2$/NDF:25144.7/2

Left: 77.800+/-0.023 $\chi^2$/NDF: 431535.5/7

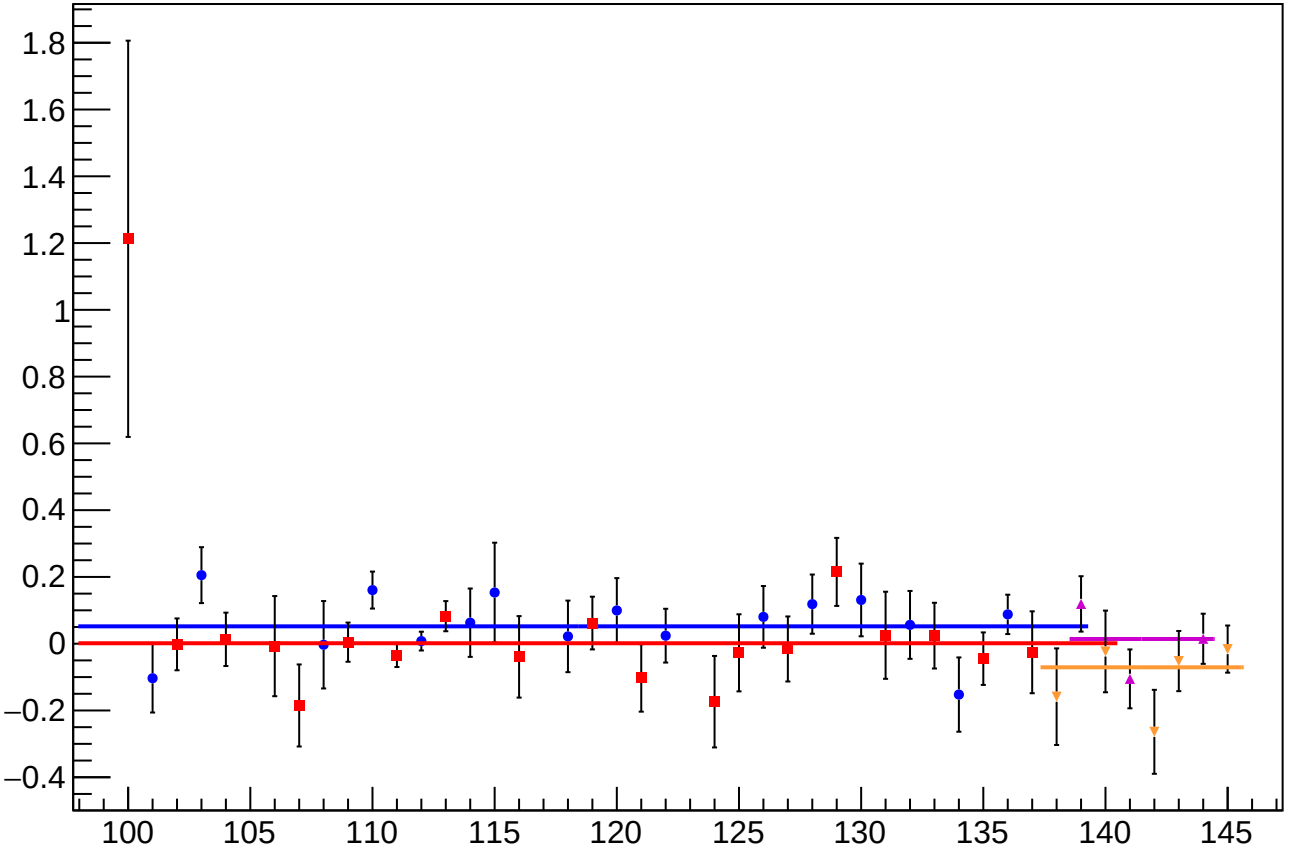
Right: 42.454+/-0.009 $\chi^2$/NDF: 4996859.3/34

In: 45.227+/-0.012 $\chi^2$/NDF:3807453.3/18

Out: 48.997+/-0.012 $\chi^2$/NDF:3636299.0/23

All: 47.111+/-0.008 $\chi^2$/NDF: 7495138.6/42

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: -0.071+/-0.045 $\chi^2$/NDF:3.5/4

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 19.2/18

Left In: 0.014+/-0.047 $\chi^2$/NDF:3.4/2

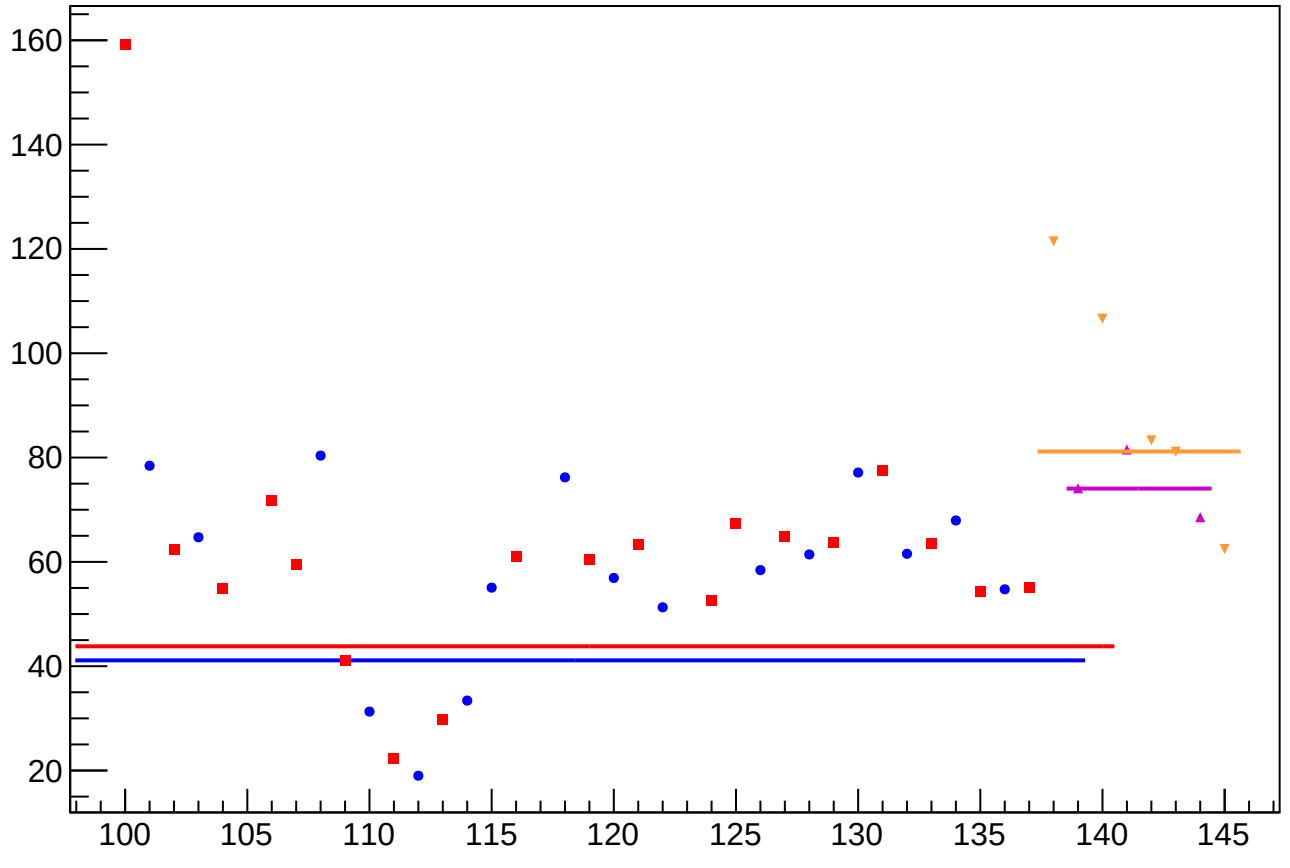
Left: -0.031+/-0.032 $\chi^2$/NDF: 8.7/7

Right: 0.027+/-0.013 $\chi^2$/NDF: 41.2/34

In: 0.047+/-0.017 $\chi^2$/NDF:22.0/18

Out: -0.009+/-0.017 $\chi^2$/NDF:25.0/23

All: 0.019+/-0.012 $\chi^2$/NDF: 52.6/42




Right In: 41.119+/-0.013 $\chi^2$/NDF: 2925464.8/15

Left Out: 81.168+/-0.032 $\chi^2$/NDF:382375.9/4

Right Out: 43.813+/-0.013 $\chi^2$/NDF: 2048627.9/18

Left In: 74.057+/-0.033 $\chi^2$/NDF:25144.7/2

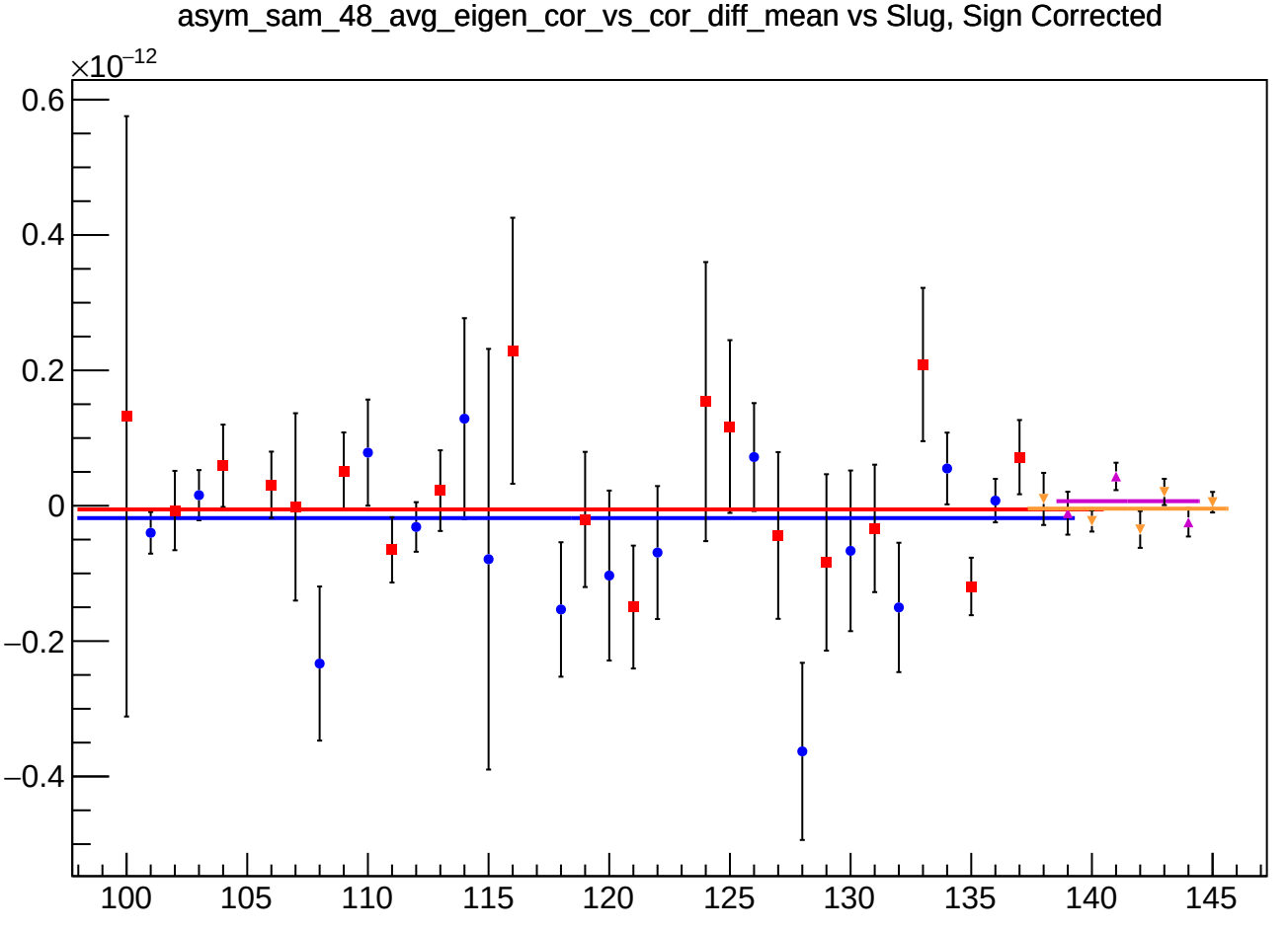
Left: 77.800+/-0.023 $\chi^2$/NDF: 431535.5/7

Right: 42.454+/-0.009 $\chi^2$/NDF: 4996859.3/34

In: 45.227+/-0.012 $\chi^2$/NDF:3807453.3/18

Out: 48.997+/-0.012 $\chi^2$/NDF:3636299.0/23

All: 47.111+/-0.008 $\chi^2$/NDF: 7495138.6/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 23.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.8/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.8/2

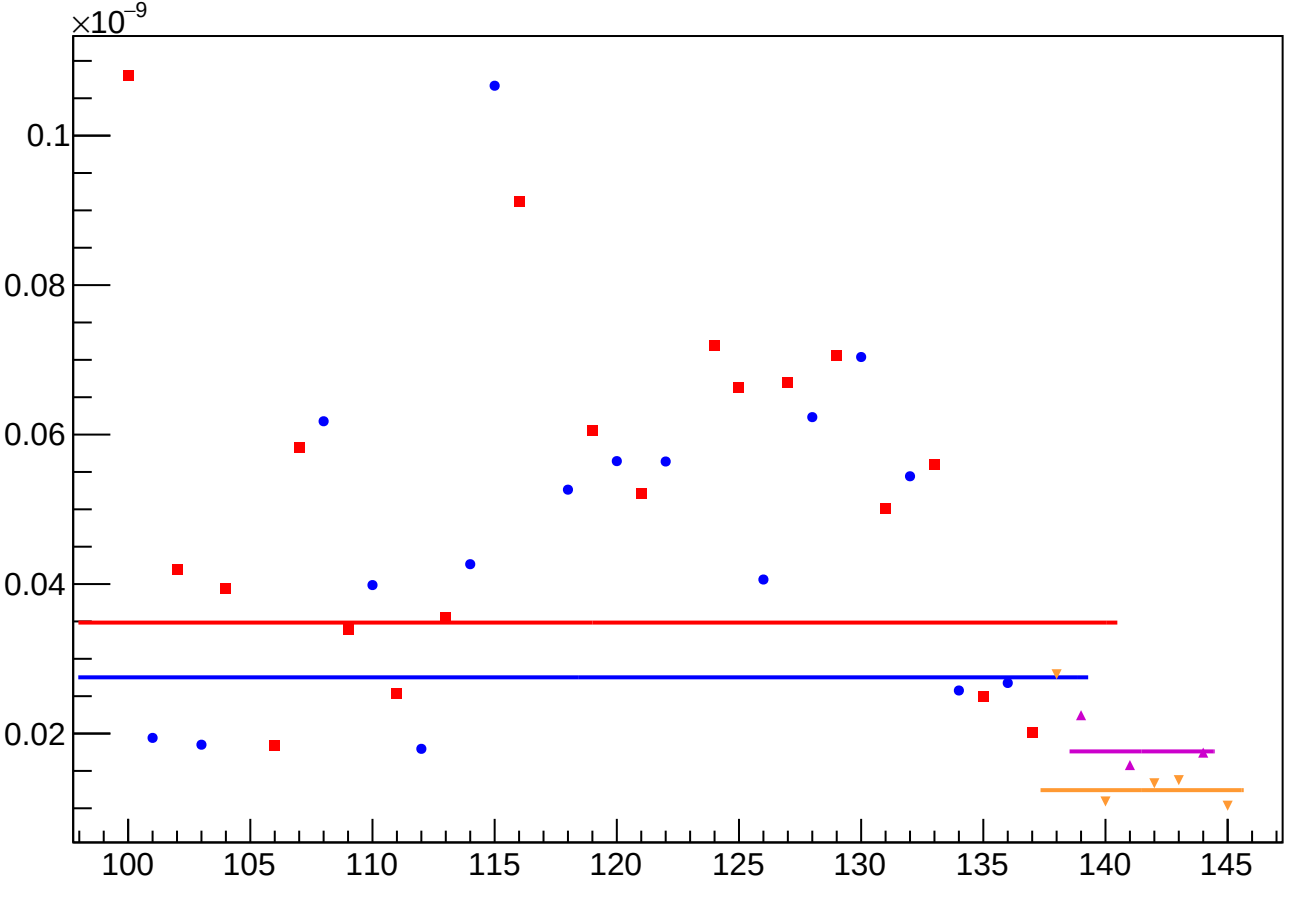
Left: -0.000+/-0.000 $\chi^2$/NDF: 11.1/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:30.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:28.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 58.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1799776.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:392089.3/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1676246.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:63080.8/2

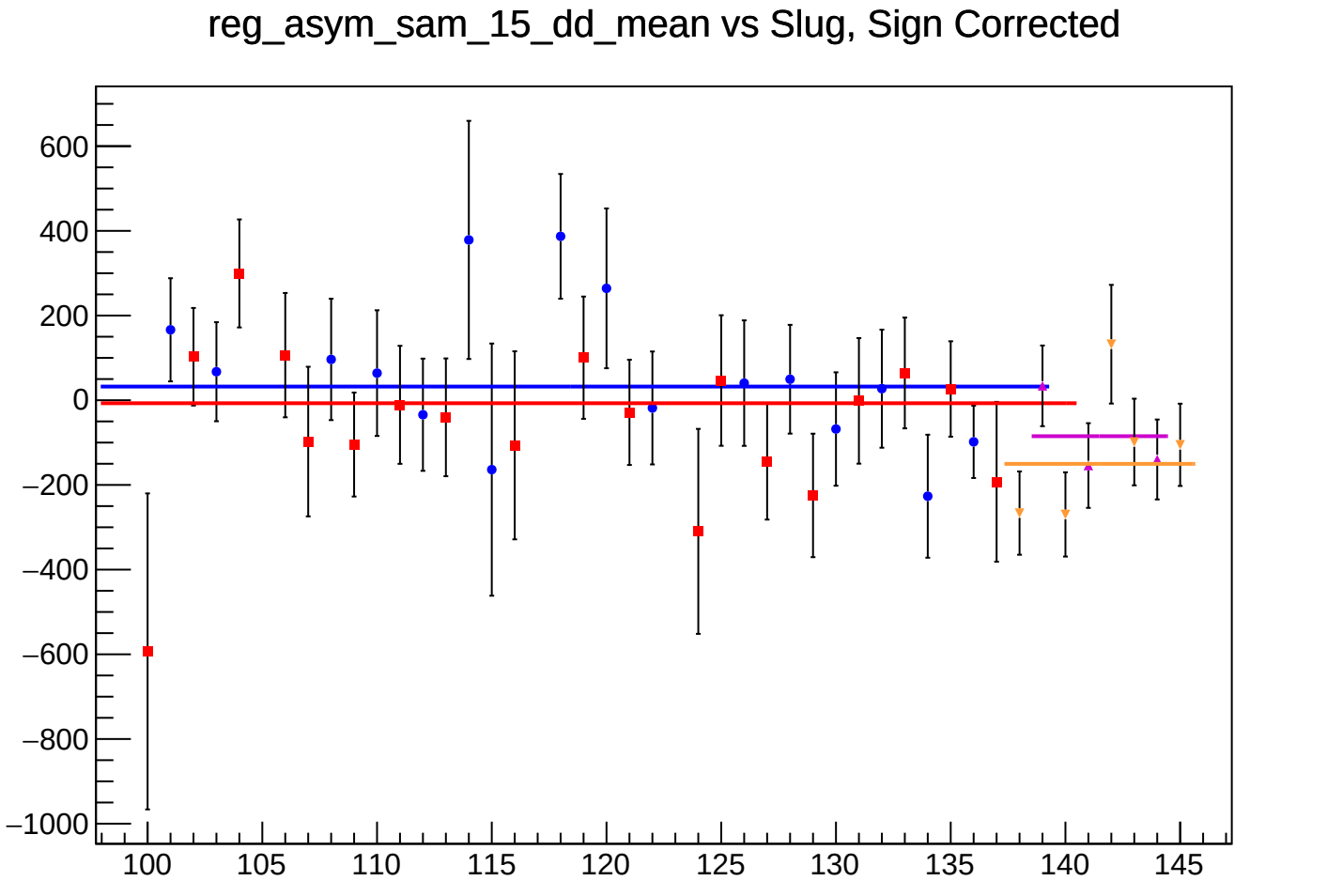
Left: 0.000+/-0.000 $\chi^2$/NDF: 669035.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3696738.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:2376249.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4901940.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7587882.4/42




Right In: 32.297+/-34.429 $\chi^2$/NDF: 17.3/15

Left Out: -150.221+/-46.786 $\chi^2$/NDF:7.4/4

Right Out: -7.070+/-33.420 $\chi^2$/NDF: 17.8/18

Left In: -84.897+/-55.683 $\chi^2$/NDF:2.4/2

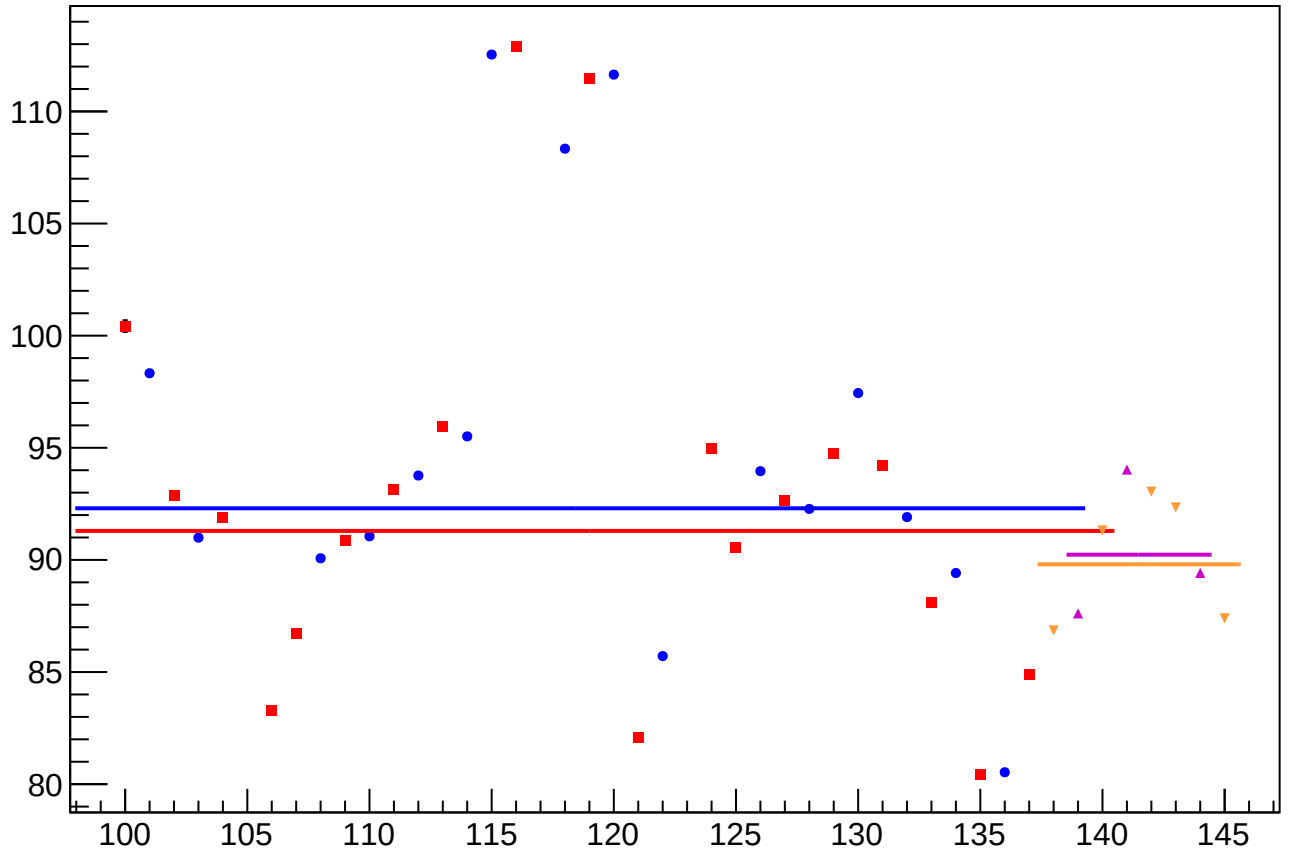
Left: -123.189+/-35.820 $\chi^2$/NDF: 10.6/7

Right: 12.028+/-23.980 $\chi^2$/NDF: 35.7/34

In: -0.114+/-29.283 $\chi^2$/NDF:22.9/18

Out: -55.435+/-27.194 $\chi^2$/NDF:31.3/23

All: -29.818+/-19.927 $\chi^2$/NDF: 56.1/42




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 89.804+/-0.033 $\chi^2$/NDF:5787.9/4

Right Out: 91.294+/-0.024 $\chi^2$/NDF: 105096.6/18

Left In: 90.233+/-0.039 $\chi^2$/NDF:4540.5/2

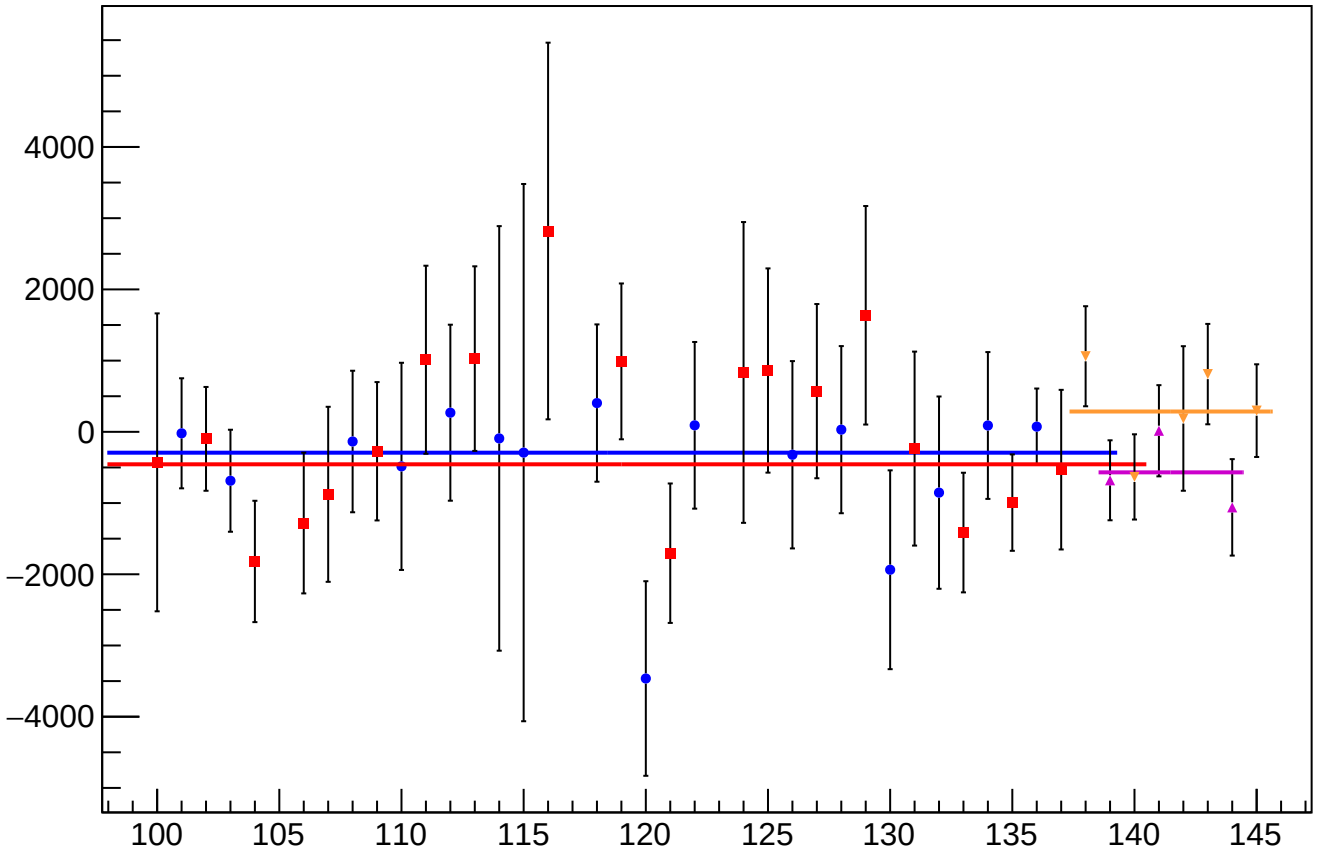
Left: 89.981+/-0.025 $\chi^2$/NDF: 10398.0/7

Right: 91.783+/-0.017 $\chi^2$/NDF: 213046.7/34

In: 91.730+/-0.021 $\chi^2$/NDF:113605.0/18

Out: 90.790+/-0.019 $\chi^2$/NDF:112227.2/23

All: 91.225+/-0.014 $\chi^2$/NDF: 226938.2/42




Right In: -292.756+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 285.451+/-313.678 $\chi^2$/NDF:4.1/4

Right Out: -455.830+/-248.717 $\chi^2$/NDF: 16.9/18

Left In: -568.957+/-358.263 $\chi^2$/NDF:1.4/2

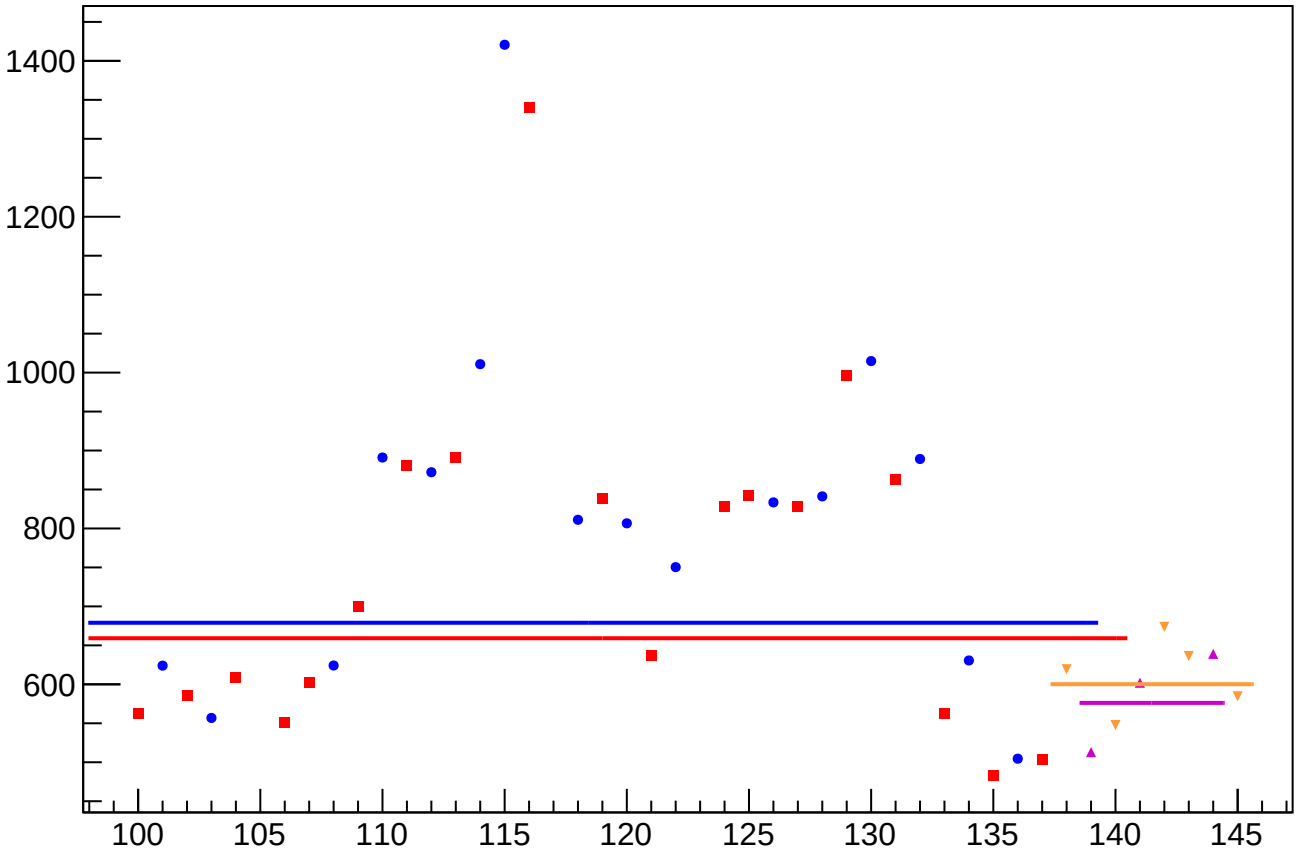
Left: -85.309+/-236.002 $\chi^2$/NDF: 8.8/7

Right: -377.812+/-179.624 $\chi^2$/NDF: 25.9/34

In: -387.892+/-210.263 $\chi^2$/NDF:10.6/18

Out: -169.686+/-194.888 $\chi^2$/NDF:24.4/23

All: -270.520+/-142.933 $\chi^2$/NDF: 35.6/42




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767983.3/15

Left Out: 600.186+/-0.222 $\chi^2$/NDF:33763.6/4

Right Out: 659.133+/-0.176 $\chi^2$/NDF: 795877.7/18

Left In: 576.184+/-0.253 $\chi^2$/NDF:45817.1/2

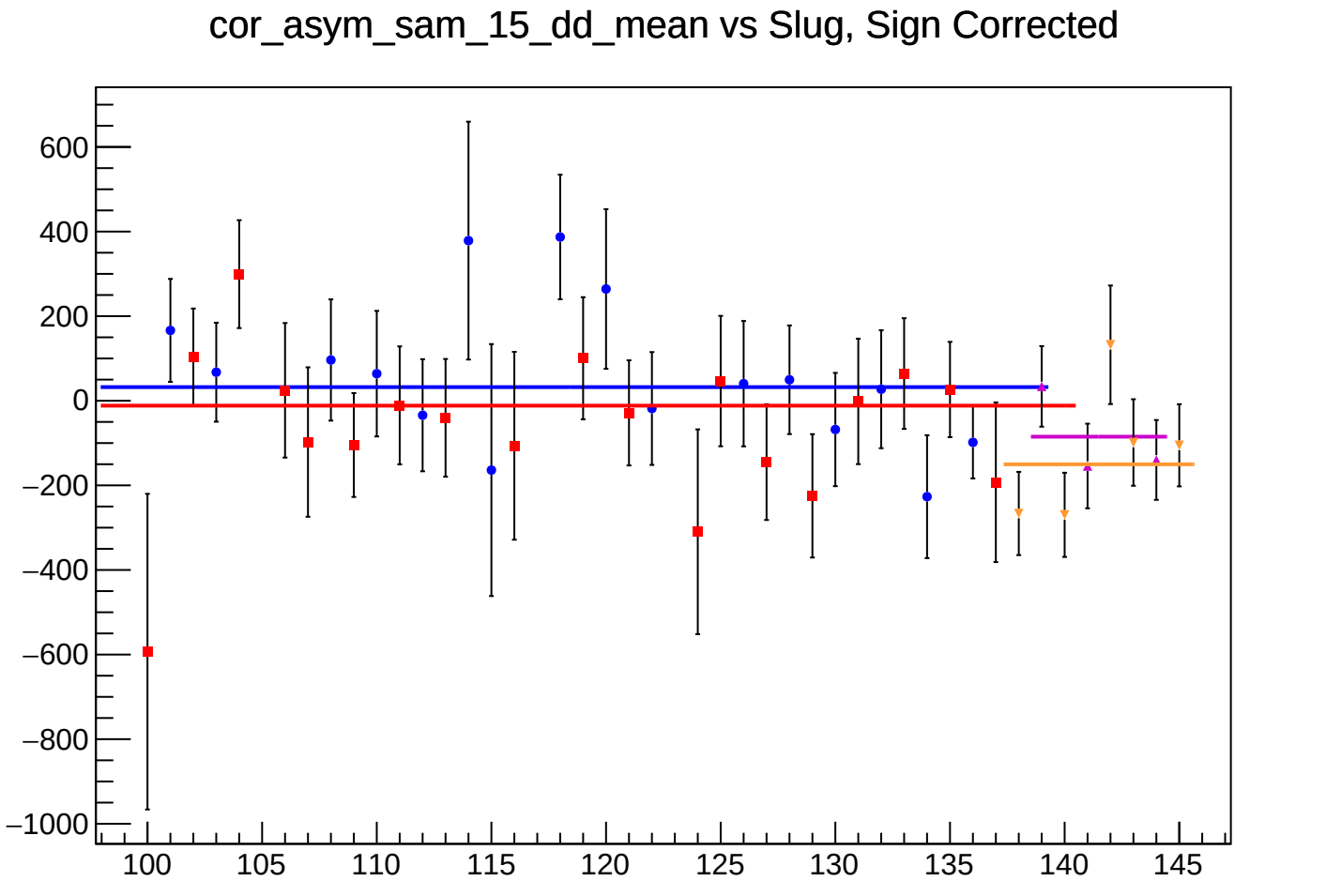
Left: 589.771+/-0.167 $\chi^2$/NDF: 84662.1/7

Right: 668.639+/-0.127 $\chi^2$/NDF: 1569967.8/34

In: 643.587+/-0.149 $\chi^2$/NDF:921789.5/18

Out: 636.379+/-0.138 $\chi^2$/NDF:873007.2/23

All: 639.710+/-0.101 $\chi^2$/NDF: 1796061.1/42




Right In: 32.312+/-34.429 $\chi^2$/NDF: 17.3/15

Left Out: -150.224+/-46.786 $\chi^2$/NDF:7.4/4

Right Out: -11.576+/-33.548 $\chi^2$/NDF: 17.2/18

Left In: -84.897+/-55.683 $\chi^2$/NDF:2.4/2

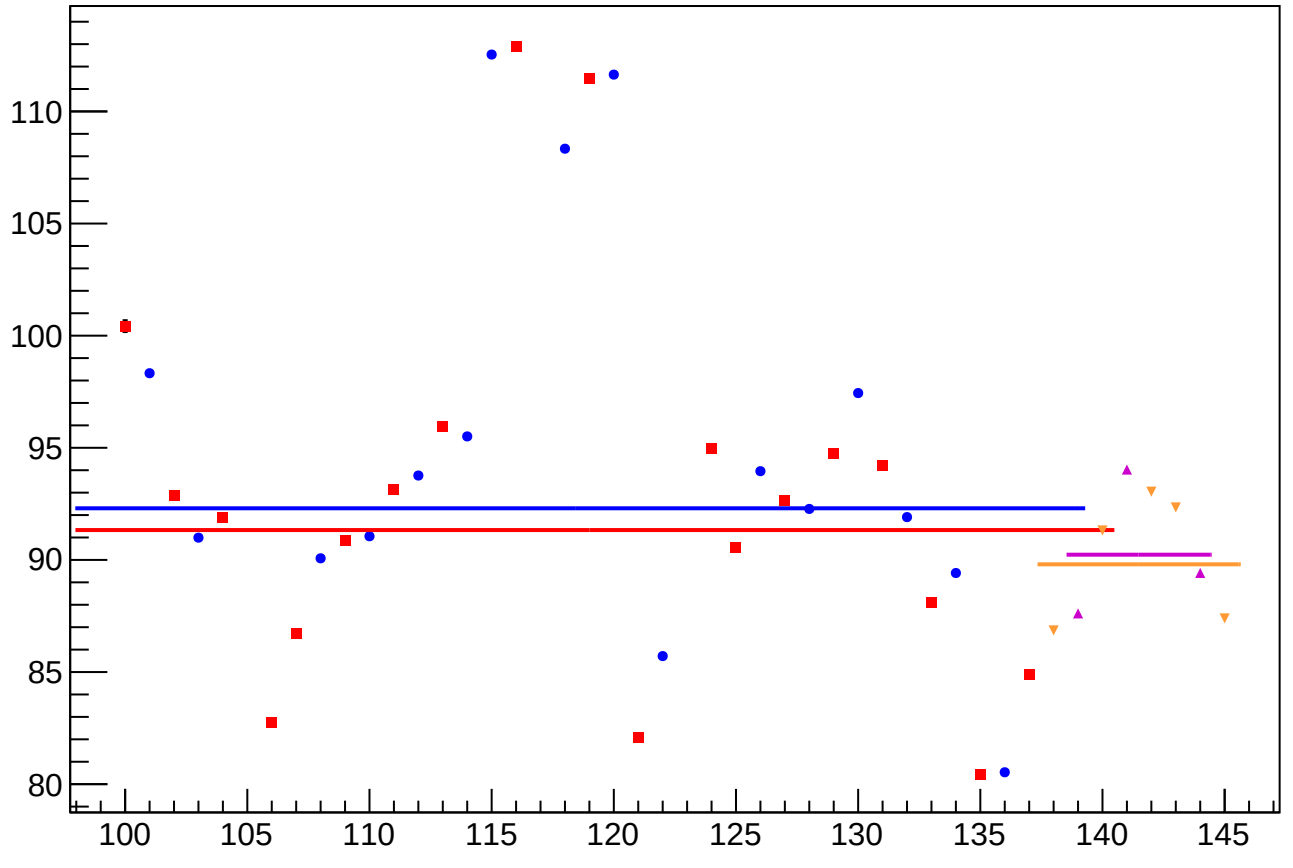
Left: -123.190+/-35.820 $\chi^2$/NDF: 10.6/7

Right: 9.800+/-24.028 $\chi^2$/NDF: 35.3/34

In: -0.104+/-29.283 $\chi^2$/NDF:22.9/18

Out: -58.658+/-27.264 $\chi^2$/NDF:30.4/23

All: -31.470+/-19.954 $\chi^2$/NDF: 55.4/42




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 89.804+/-0.033 $\chi^2$/NDF:5787.9/4

Right Out: 91.332+/-0.024 $\chi^2$/NDF: 104918.3/18

Left In: 90.233+/-0.039 $\chi^2$/NDF:4540.5/2

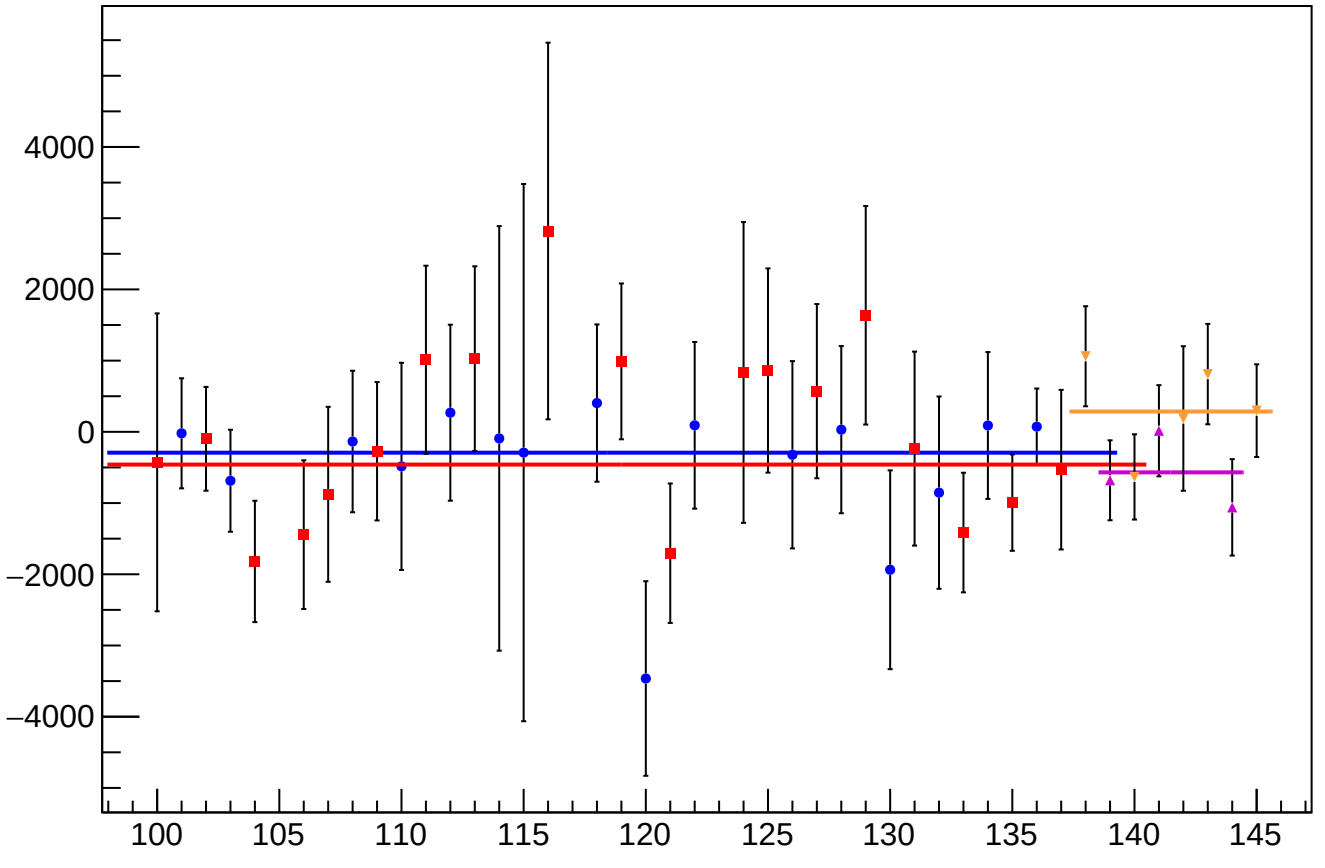
Left: 89.981+/-0.025 $\chi^2$/NDF: 10398.0/7

Right: 91.805+/-0.017 $\chi^2$/NDF: 212799.4/34

In: 91.730+/-0.021 $\chi^2$/NDF:113605.0/18

Out: 90.813+/-0.019 $\chi^2$/NDF:112115.2/23

All: 91.239+/-0.014 $\chi^2$/NDF: 226770.8/42




Right In: -292.753+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 285.447+/-313.678 $\chi^2$/NDF:4.1/4

Right Out: -459.595+/-249.543 $\chi^2$/NDF: 17.1/18

Left In: -568.951+/-358.263 $\chi^2$/NDF:1.4/2

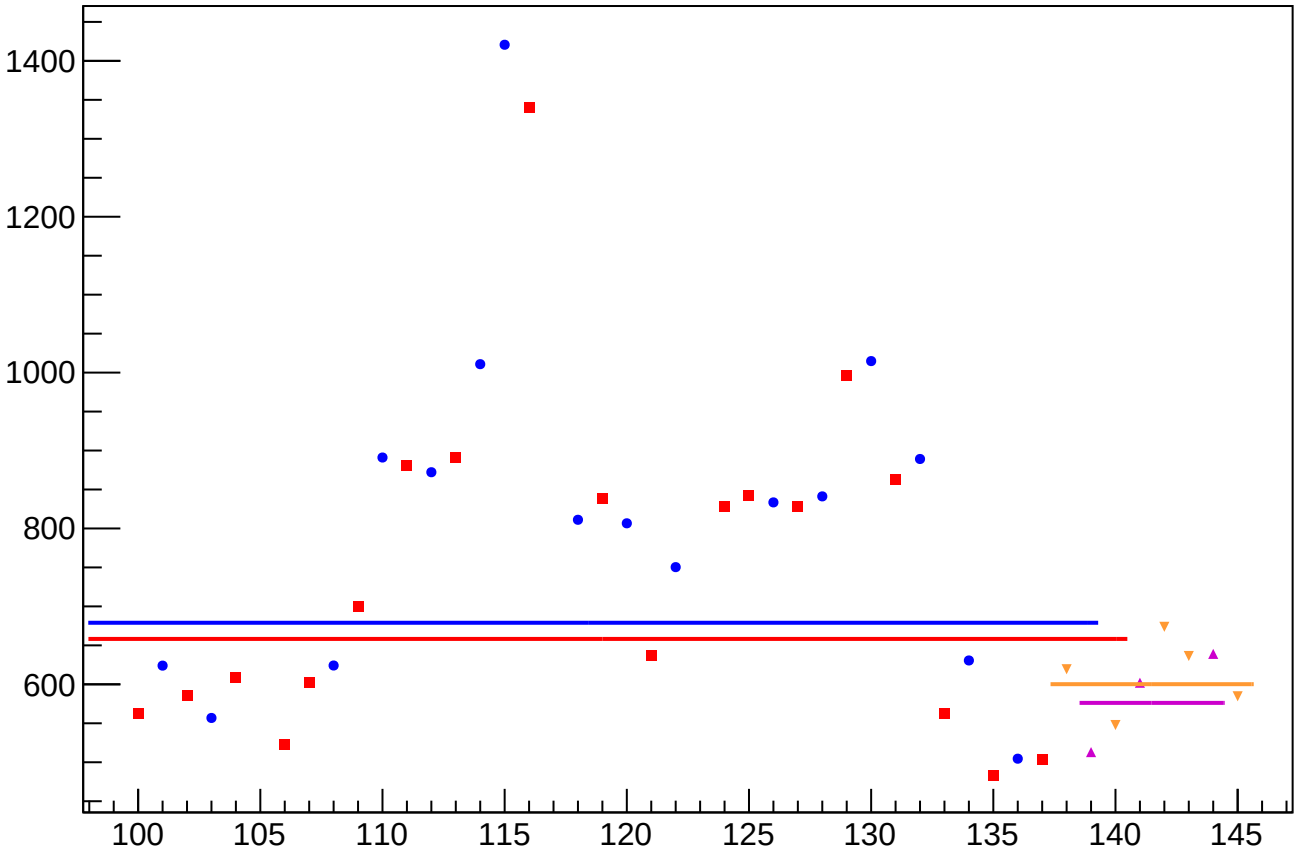
Left: -85.309+/-236.002 $\chi^2$/NDF: 8.8/7

Right: -379.498+/-179.935 $\chi^2$/NDF: 26.1/34

In: -387.889+/-210.263 $\chi^2$/NDF:10.6/18

Out: -170.827+/-195.284 $\chi^2$/NDF:24.6/23

All: -271.352+/-143.090 $\chi^2$/NDF: 35.8/42




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767985.6/15

Left Out: 600.186+/-0.222 $\chi^2$/NDF:33763.8/4

Right Out: 658.262+/-0.176 $\chi^2$/NDF: 805898.2/18

Left In: 576.184+/-0.253 $\chi^2$/NDF:45817.1/2

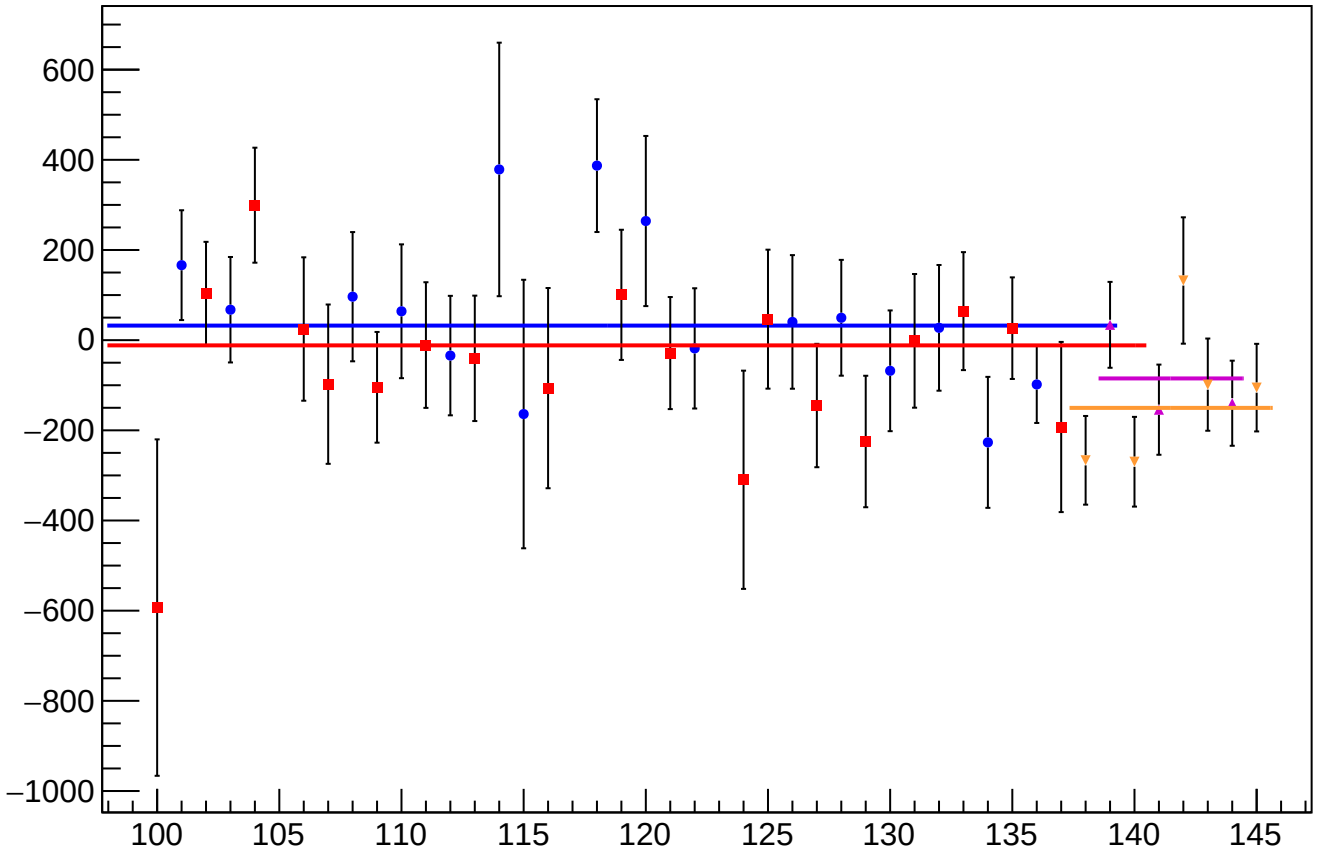
Left: 589.771+/-0.167 $\chi^2$/NDF: 84662.3/7

Right: 668.219+/-0.127 $\chi^2$/NDF: 1580516.6/34

In: 643.587+/-0.149 $\chi^2$/NDF:921791.0/18

Out: 635.752+/-0.138 $\chi^2$/NDF:881647.4/23

All: 639.381+/-0.101 $\chi^2$/NDF: 1804929.3/42




Right In: 32.312+/-34.429 $\chi^2$/NDF: 17.3/15

Left Out: -150.224+/-46.786 $\chi^2$/NDF:7.4/4

Right Out: -11.576+/-33.548 $\chi^2$/NDF: 17.2/18

Left In: -84.897+/-55.683 $\chi^2$/NDF:2.4/2

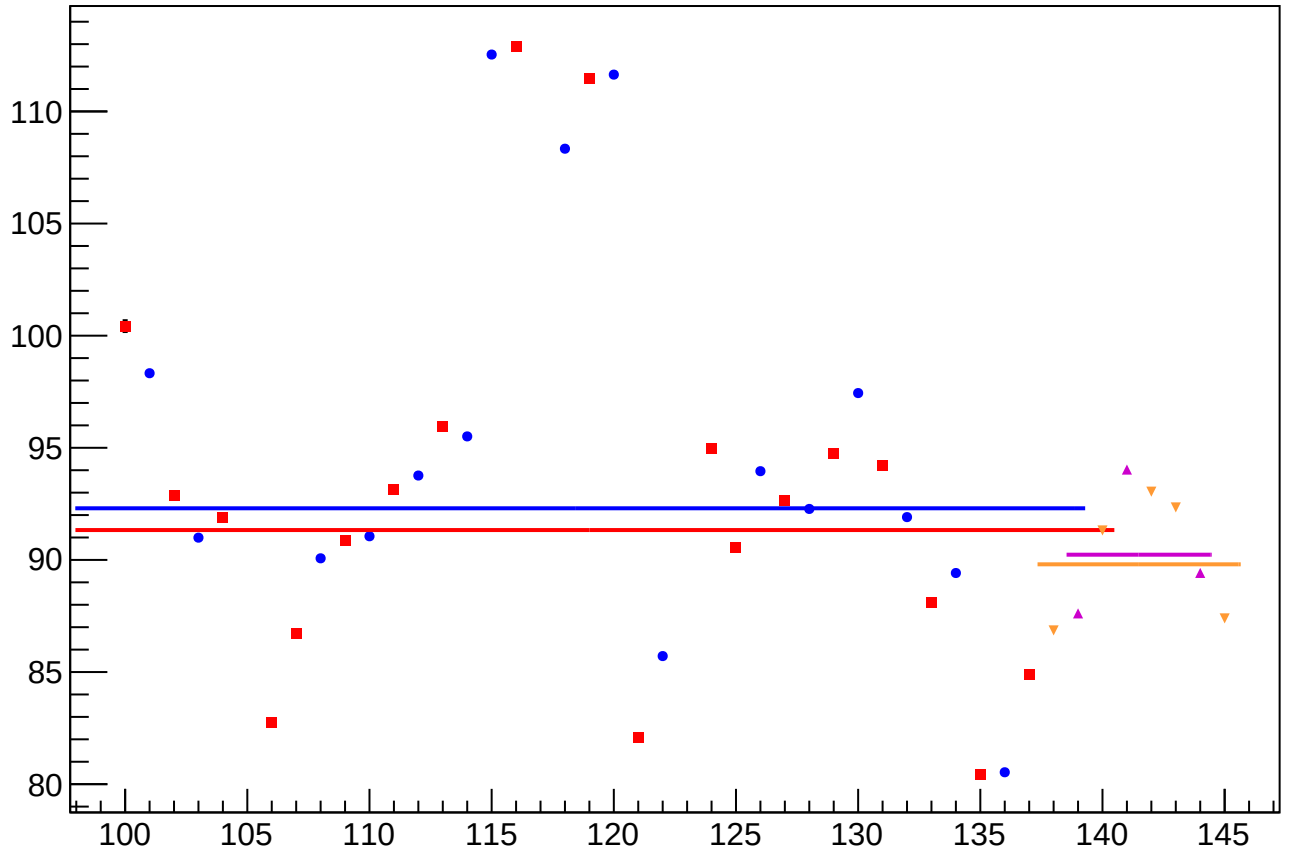
Left: -123.190+/-35.820 $\chi^2$/NDF: 10.6/7

Right: 9.800+/-24.028 $\chi^2$/NDF: 35.3/34

In: -0.104+/-29.283 $\chi^2$/NDF:22.9/18

Out: -58.658+/-27.264 $\chi^2$/NDF:30.4/23

All: -31.470+/-19.954 $\chi^2$/NDF: 55.4/42




Right In: 92.302+/-0.024 $\chi^2$/NDF: 107066.1/15

Left Out: 89.804+/-0.033 $\chi^2$/NDF:5787.9/4

Right Out: 91.332+/-0.024 $\chi^2$/NDF: 104918.3/18

Left In: 90.233+/-0.039 $\chi^2$/NDF:4540.5/2

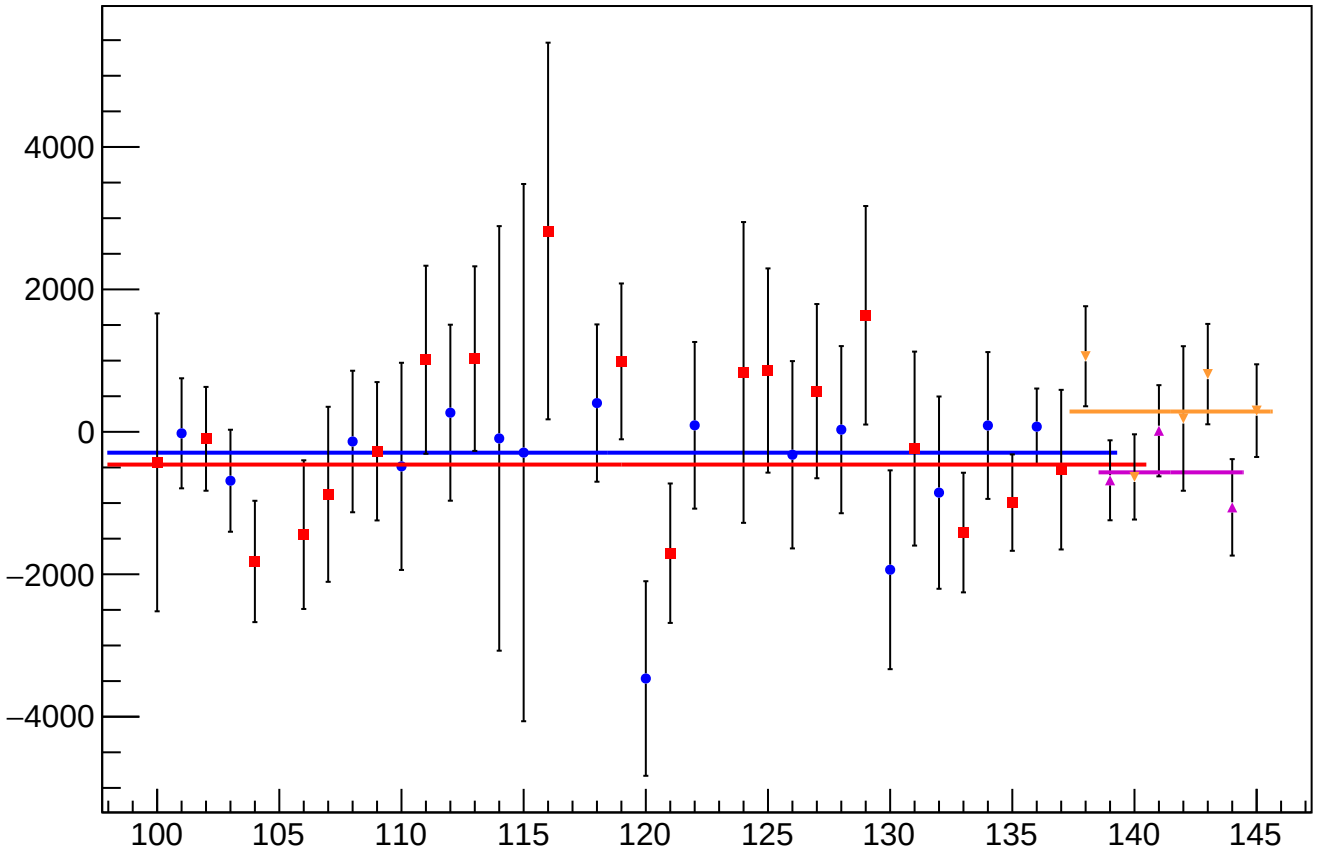
Left: 89.981+/-0.025 $\chi^2$/NDF: 10398.0/7

Right: 91.805+/-0.017 $\chi^2$/NDF: 212799.4/34

In: 91.730+/-0.021 $\chi^2$/NDF:113605.0/18

Out: 90.813+/-0.019 $\chi^2$/NDF:112115.2/23

All: 91.239+/-0.014 $\chi^2$/NDF: 226770.8/42




Right In: -292.753+/-259.692 $\chi^2$/NDF: 8.8/15

Left Out: 285.447+/-313.678 $\chi^2$/NDF:4.1/4

Right Out: -459.595+/-249.543 $\chi^2$/NDF: 17.1/18

Left In: -568.951+/-358.263 $\chi^2$/NDF:1.4/2

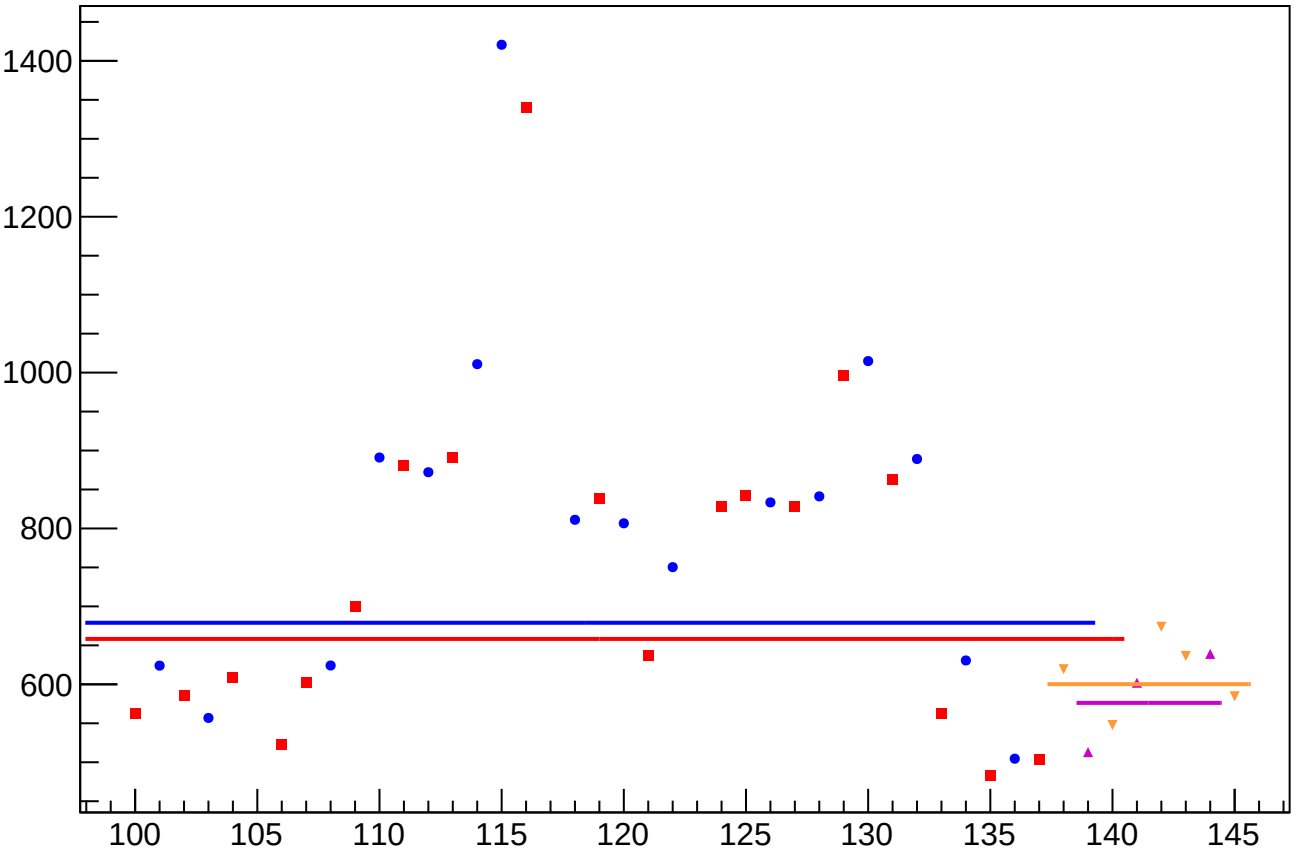
Left: -85.309+/-236.002 $\chi^2$/NDF: 8.8/7

Right: -379.498+/-179.935 $\chi^2$/NDF: 26.1/34

In: -387.889+/-210.263 $\chi^2$/NDF:10.6/18

Out: -170.827+/-195.284 $\chi^2$/NDF:24.6/23

All: -271.352+/-143.090 $\chi^2$/NDF: 35.8/42




Right In: 679.003+/-0.184 $\chi^2$/NDF: 767985.6/15

Left Out: 600.186+/-0.222 $\chi^2$/NDF:33763.8/4

Right Out: 658.262+/-0.176 $\chi^2$/NDF: 805898.2/18

Left In: 576.184+/-0.253 $\chi^2$/NDF:45817.1/2

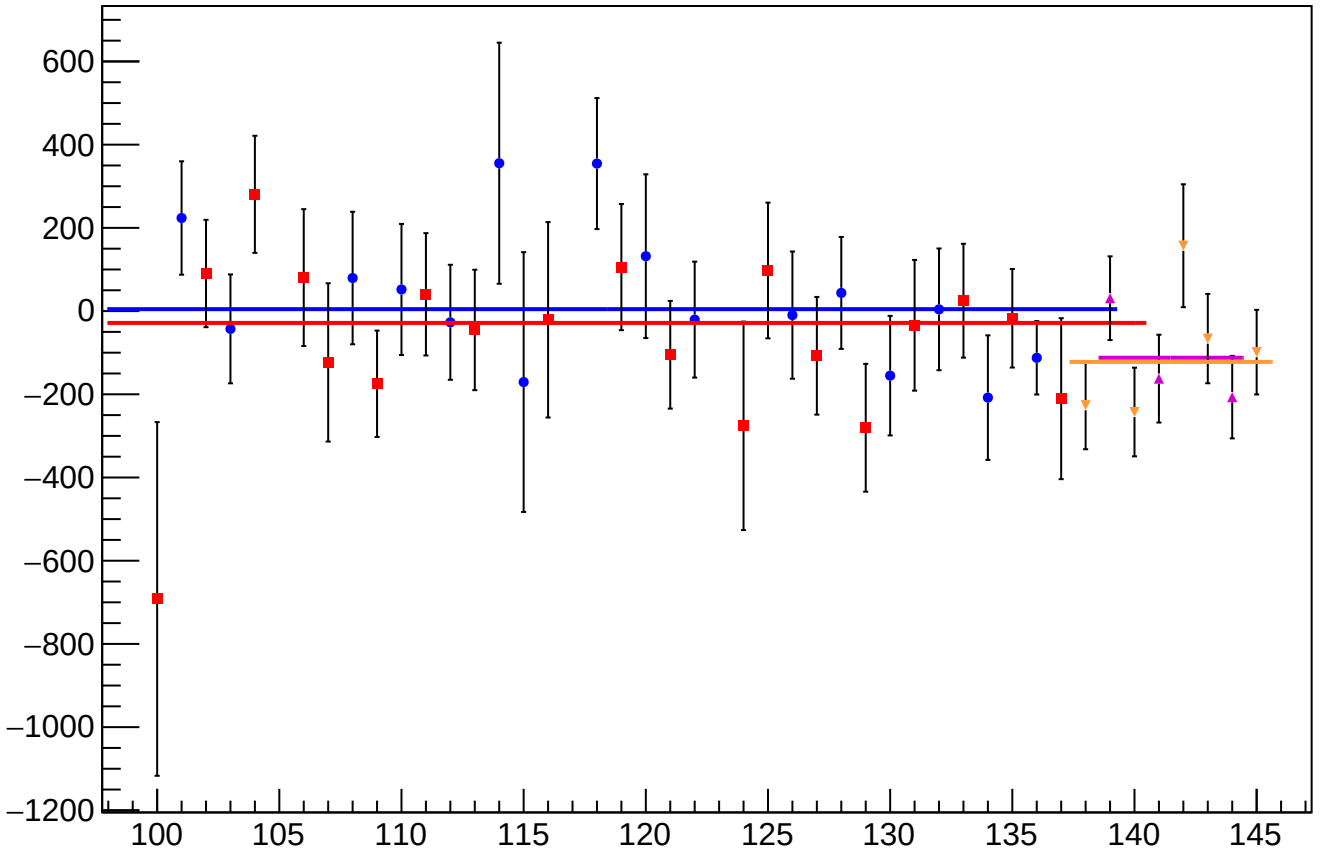
Left: 589.771+/-0.167 $\chi^2$/NDF: 84662.3/7

Right: 668.219+/-0.127 $\chi^2$/NDF: 1580516.6/34

In: 643.587+/-0.149 $\chi^2$/NDF:921791.0/18

Out: 635.752+/-0.138 $\chi^2$/NDF:881647.4/23

All: 639.381+/-0.101 $\chi^2$/NDF: 1804929.3/42




Right In: 4.619+/-36.509 $\chi^2$/NDF: 15.3/15

Left Out: -122.134+/-49.586 $\chi^2$/NDF:6.1/4

Right Out: -28.407+/-35.465 $\chi^2$/NDF: 17.1/18

Left In: -112.148+/-58.687 $\chi^2$/NDF:3.2/2

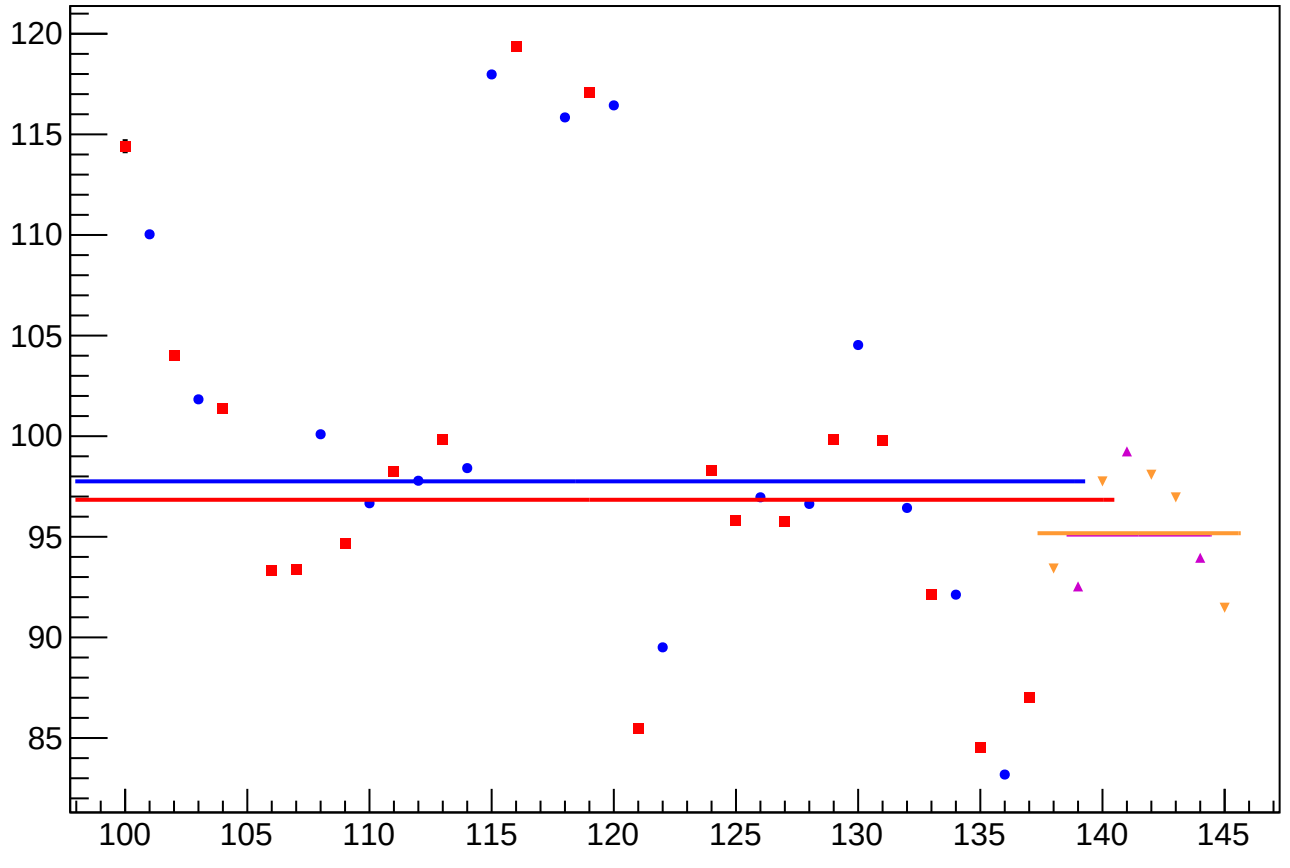
Left: -117.974+/-37.876 $\chi^2$/NDF: 9.3/7

Right: -12.373+/-25.439 $\chi^2$/NDF: 32.9/34

In: -27.961+/-31.000 $\chi^2$/NDF:21.4/18

Out: -60.127+/-28.846 $\chi^2$/NDF:25.6/23

All: -45.200+/-21.118 $\chi^2$/NDF: 47.5/42




Right In: 97.756+/-0.026 $\chi^2$/NDF: 140654.4/15

Left Out: 95.178+/-0.035 $\chi^2$/NDF:5693.3/4

Right Out: 96.840+/-0.025 $\chi^2$/NDF: 115170.9/18

Left In: 95.109+/-0.041 $\chi^2$/NDF:4650.5/2

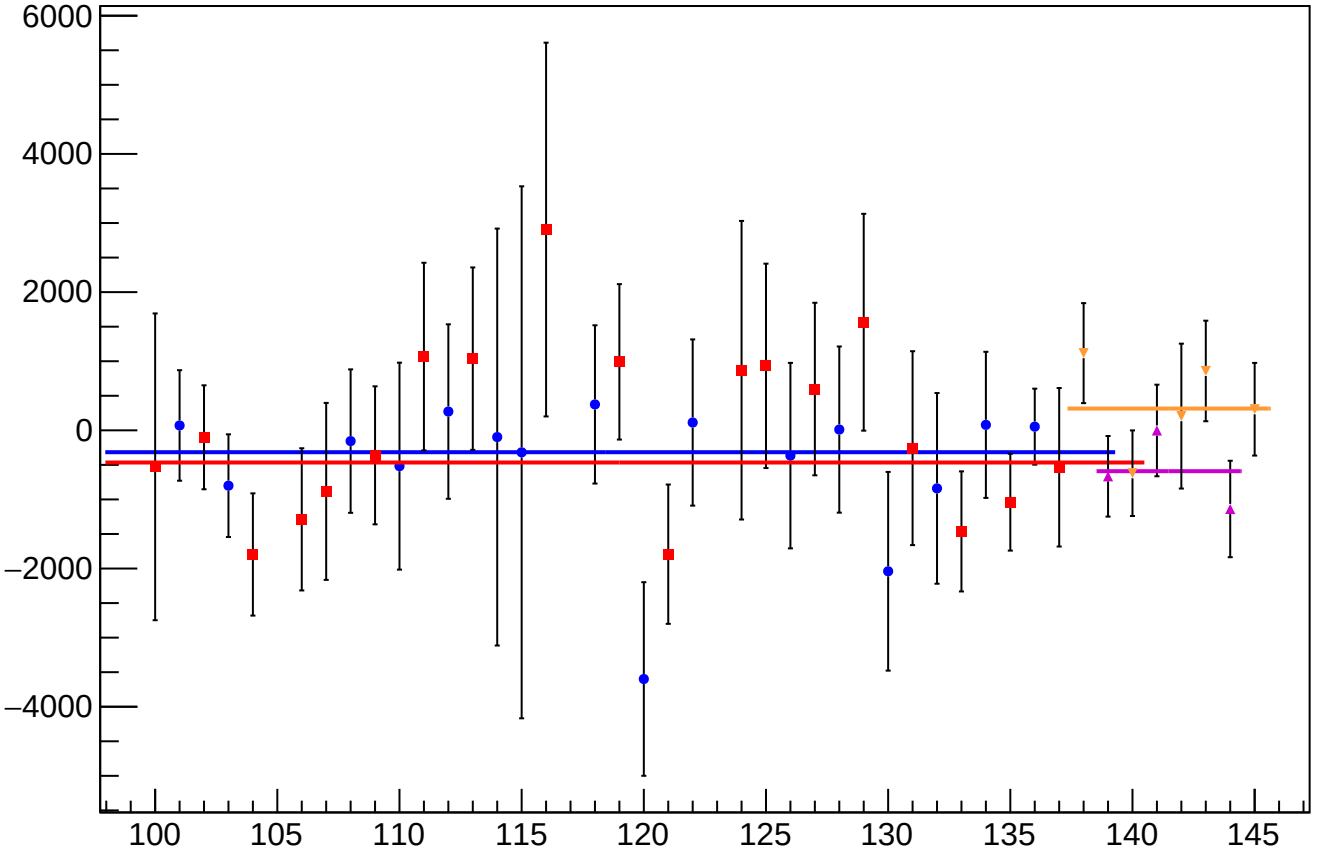
Left: 95.149+/-0.027 $\chi^2$/NDF: 10345.4/7

Right: 97.285+/-0.018 $\chi^2$/NDF: 256473.4/34

In: 97.017+/-0.022 $\chi^2$/NDF:148238.2/18

Out: 96.277+/-0.020 $\chi^2$/NDF:122351.0/23

All: 96.621+/-0.015 $\chi^2$/NDF: 271200.3/42




Right In: -316.572+/-267.515 $\chi^2$/NDF: 9.2/15

Left Out: 315.045+/-323.751 $\chi^2$/NDF:4.1/4

Right Out: -465.576+/-256.646 $\chi^2$/NDF: 16.5/18

Left In: -591.047+/-370.854 $\chi^2$/NDF:1.4/2

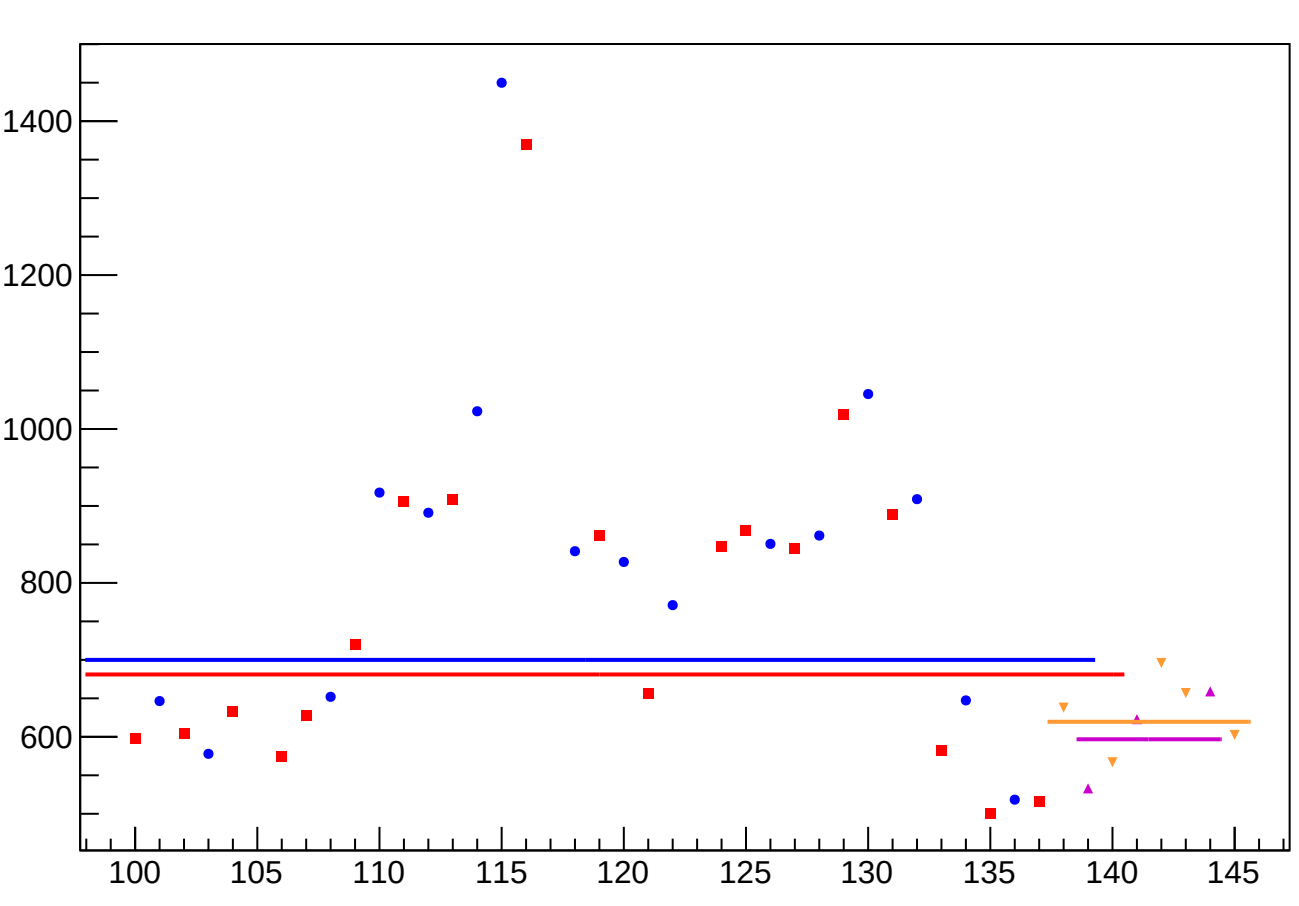
Left: -76.838+/-243.890 $\chi^2$/NDF: 8.9/7

Right: -394.162+/-185.199 $\chi^2$/NDF: 25.8/34

In: -410.512+/-216.959 $\chi^2$/NDF:10.9/18

Out: -164.330+/-201.118 $\chi^2$/NDF:24.1/23

All: -278.107+/-147.495 $\chi^2$/NDF: 35.8/42




Right In: 699.973+/-0.189 $\chi^2$/NDF: 753665.4/15

Left Out: 619.551+/-0.229 $\chi^2$/NDF:32927.7/4

Right Out: 681.016+/-0.181 $\chi^2$/NDF: 769397.2/18

Left In: 596.798+/-0.262 $\chi^2$/NDF:42968.6/2

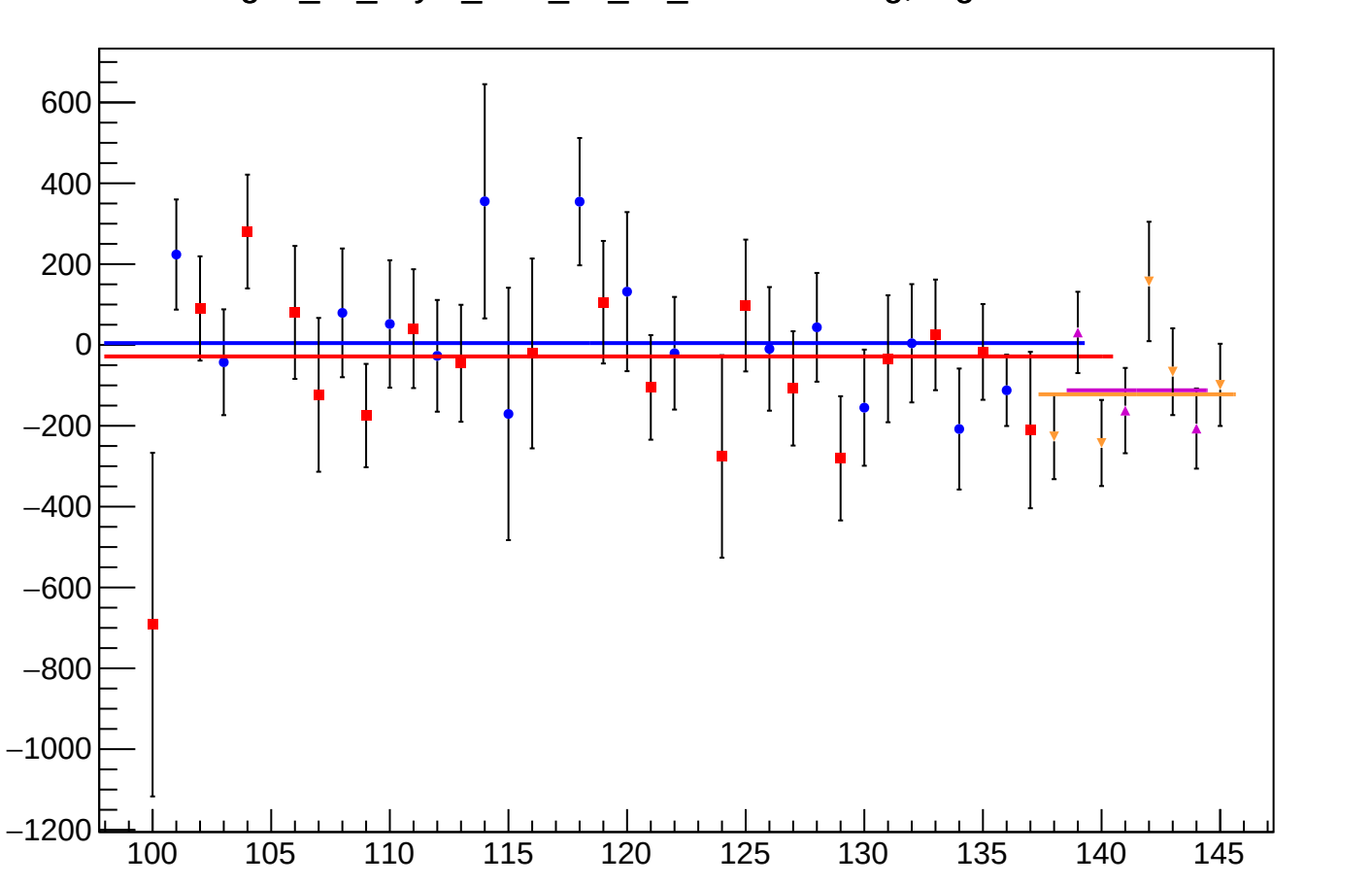
Left: 609.710+/-0.172 $\chi^2$/NDF: 80168.5/7

Right: 690.102+/-0.131 $\chi^2$/NDF: 1528292.0/34

In: 664.661+/-0.153 $\chi^2$/NDF:898453.2/18

Out: 657.296+/-0.142 $\chi^2$/NDF:846595.2/23

All: 660.700+/-0.104 $\chi^2$/NDF: 1746287.8/42




Right In: 4.620+/-36.509 $\chi^2$/NDF: 15.3/15

Left Out: -122.135+/-49.586 $\chi^2$/NDF:6.1/4

Right Out: -28.407+/-35.465 $\chi^2$/NDF: 17.1/18

Left In: -112.148+/-58.688 $\chi^2$/NDF:3.2/2

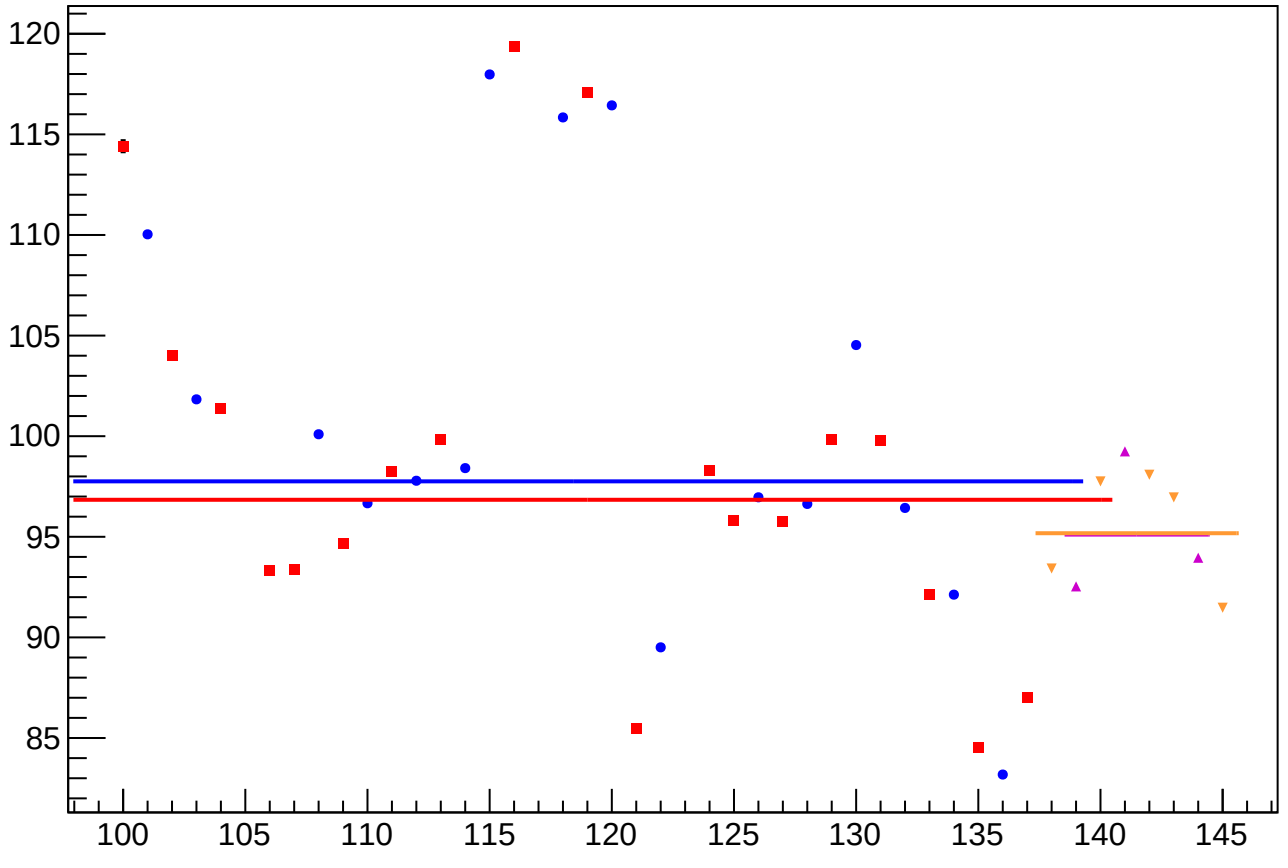
Left: -117.975+/-37.876 $\chi^2$/NDF: 9.3/7

Right: -12.373+/-25.438 $\chi^2$/NDF: 32.9/34

In: -27.960+/-31.000 $\chi^2$/NDF:21.4/18

Out: -60.127+/-28.846 $\chi^2$/NDF:25.6/23

All: -45.200+/-21.118 $\chi^2$/NDF: 47.5/42




Right In: 97.756+/-0.026 $\chi^2$/NDF: 140654.8/15

Left Out: 95.178+/-0.035 $\chi^2$/NDF:5693.2/4

Right Out: 96.839+/-0.025 $\chi^2$/NDF: 115173.1/18

Left In: 95.109+/-0.041 $\chi^2$/NDF:4650.7/2

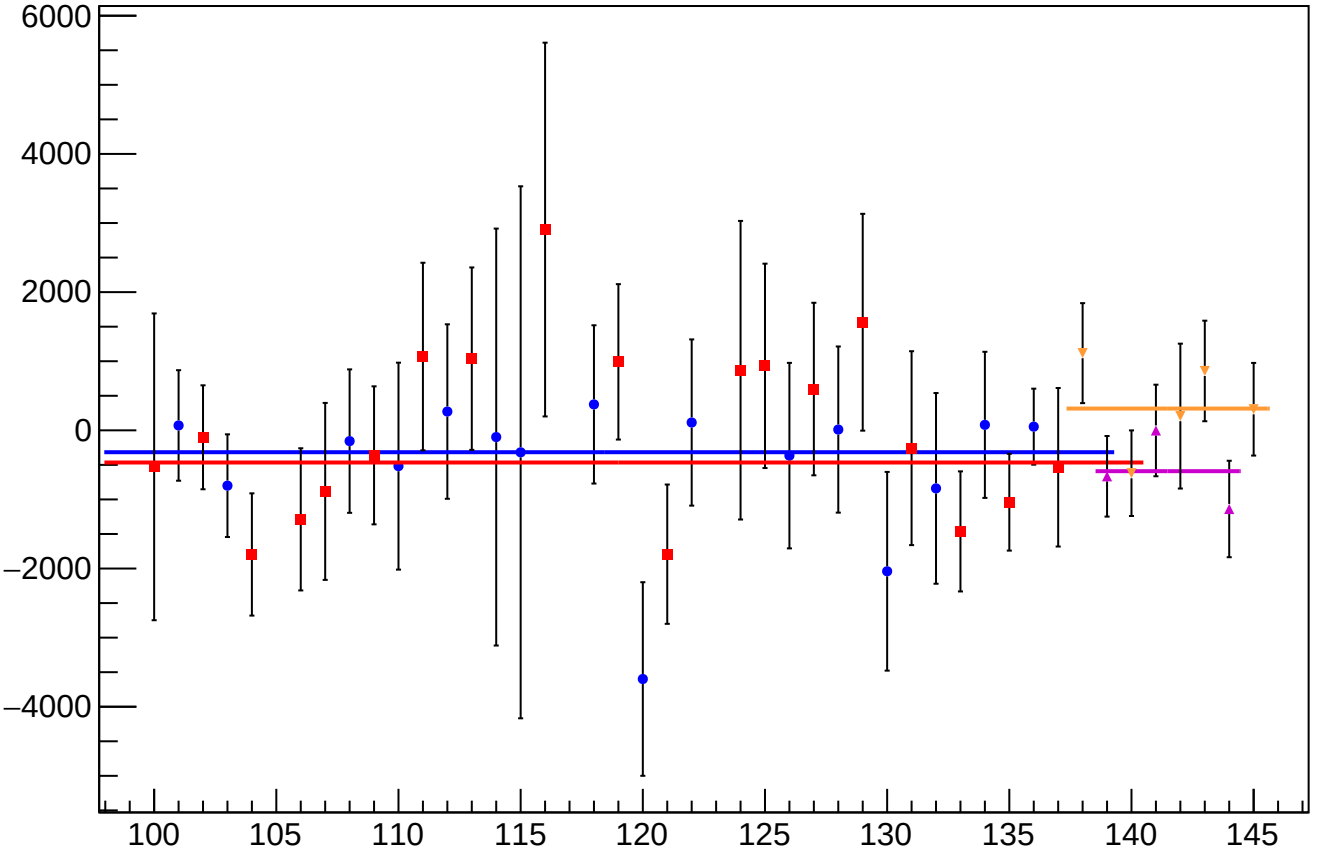
Left: 95.149+/-0.027 $\chi^2$/NDF: 10345.5/7

Right: 97.284+/-0.018 $\chi^2$/NDF: 256476.1/34

In: 97.017+/-0.022 $\chi^2$/NDF:148237.7/18

Out: 96.277+/-0.020 $\chi^2$/NDF:122352.3/23

All: 96.621+/-0.015 $\chi^2$/NDF: 271201.2/42




Right In: -316.570+/-267.515 $\chi^2$/NDF: 9.2/15

Left Out: 315.044+/-323.751 $\chi^2$/NDF:4.1/4

Right Out: -465.576+/-256.645 $\chi^2$/NDF: 16.5/18

Left In: -591.049+/-370.854 $\chi^2$/NDF:1.4/2

Left: -76.839+/-243.891 $\chi^2$/NDF: 8.9/7

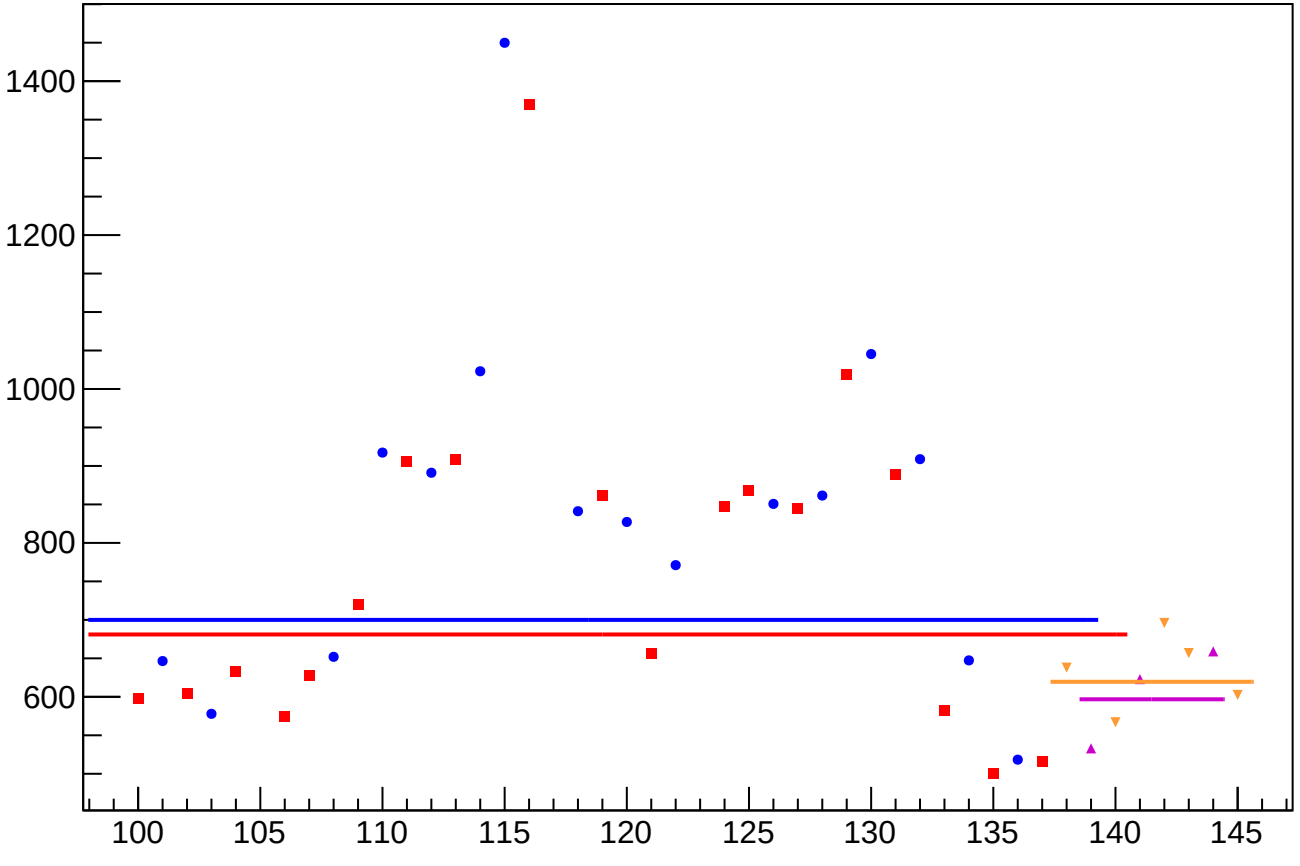
Right: -394.162+/-185.199 $\chi^2$/NDF: 25.8/34

In: -410.511+/-216.959 $\chi^2$/NDF:10.9/18

Out: -164.331+/-201.118 $\chi^2$/NDF:24.1/23

All: -278.107+/-147.494 $\chi^2$/NDF: 35.8/42

asym_sam_15_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 699.971+/-0.189 $\chi^2$/NDF: 753668.1/15

Left Out: 619.551+/-0.229 $\chi^2$/NDF:32926.9/4

Right Out: 681.015+/-0.181 $\chi^2$/NDF: 769400.5/18

Left In: 596.799+/-0.262 $\chi^2$/NDF:42968.3/2

Left: 609.711+/-0.172 $\chi^2$/NDF: 80167.2/7

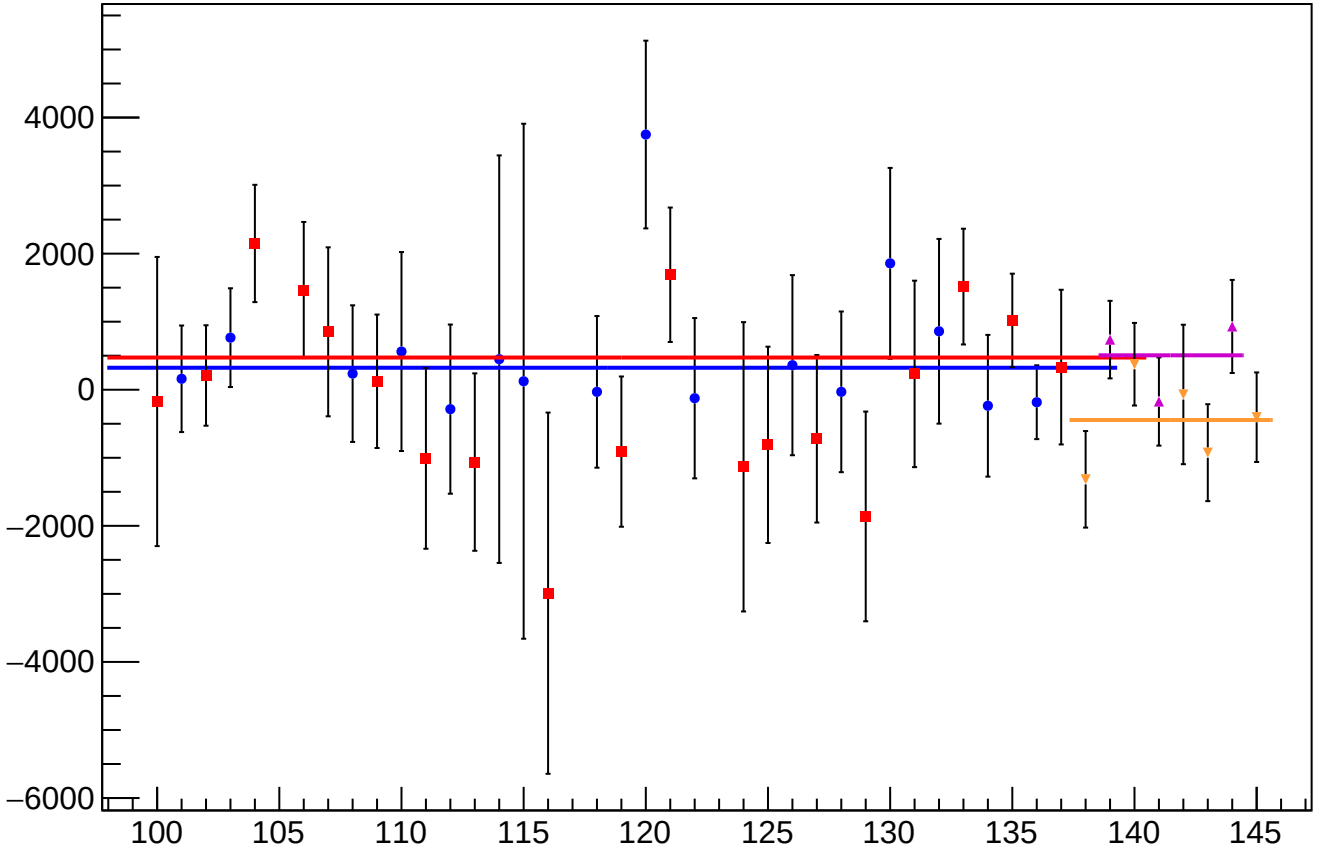
Right: 690.100+/-0.131 $\chi^2$/NDF: 1528298.1/34

In: 664.660+/-0.153 $\chi^2$/NDF:898451.0/18

Out: 657.296+/-0.142 $\chi^2$/NDF:846594.4/23

All: 660.699+/-0.104 $\chi^2$/NDF: 1746284.8/42

# asym_sam_15_dd_mean vs Slug, Sign Corrected




Right In: 323.198+/-262.332 $\chi^2$/NDF: 9.7/15

Left Out: -444.699+/-317.265 $\chi^2$/NDF:3.9/4

Right Out: 473.233+/-251.330 $\chi^2$/NDF: 19.4/18

Left In: 505.860+/-362.798 $\chi^2$/NDF:1.6/2

Left: -32.780+/-238.826 $\chi^2$/NDF: 9.5/7

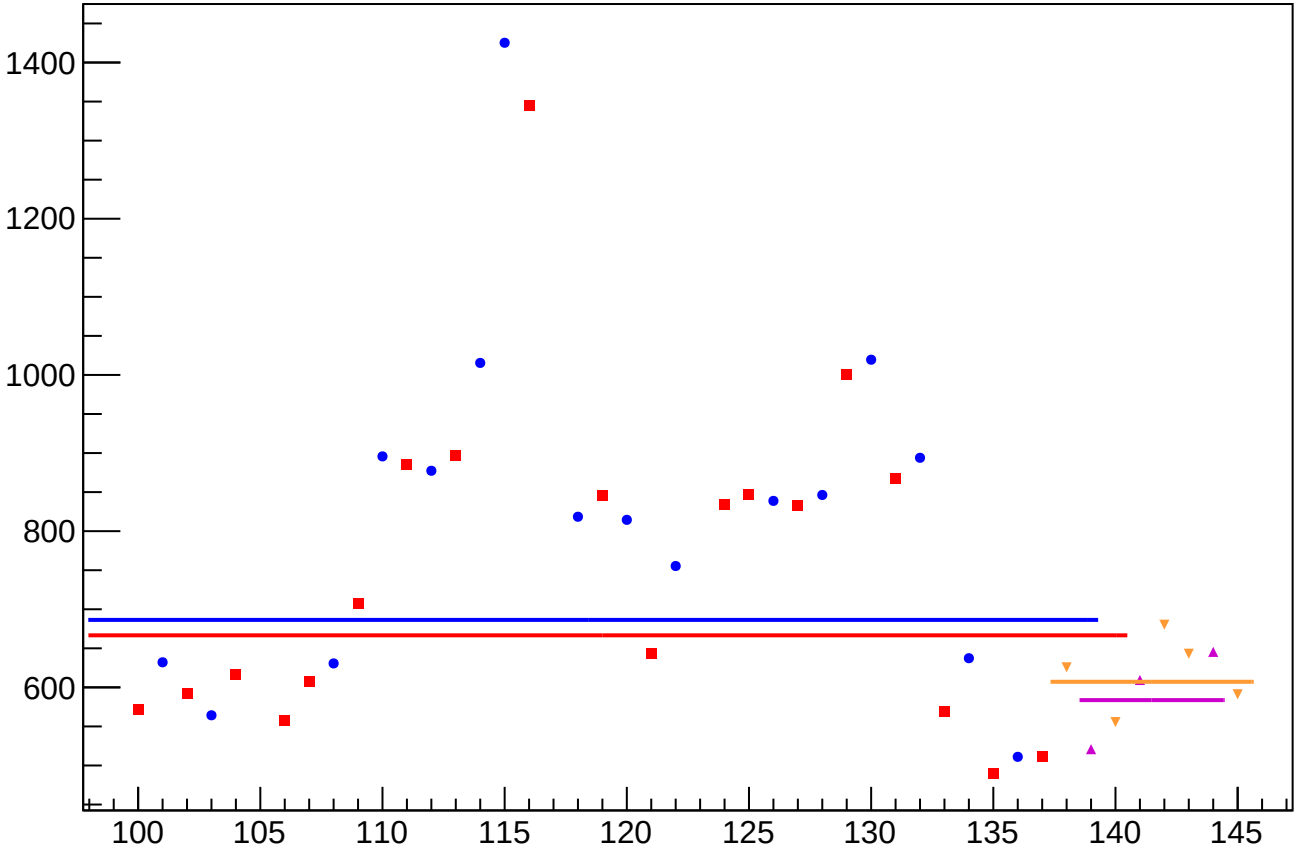
Right: 401.428+/-181.482 $\chi^2$/NDF: 29.3/34

In: 385.913+/-212.581 $\chi^2$/NDF:11.5/18

Out: 119.299+/-197.005 $\chi^2$/NDF:28.5/23

All: 242.482+/-144.497 $\chi^2$/NDF: 40.9/42

# asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 686.394+/-0.185 $\chi^2$/NDF: 749454.8/15

Left Out: 607.154+/-0.224 $\chi^2$/NDF:32272.4/4

Right Out: 666.634+/-0.178 $\chi^2$/NDF: 777033.6/18

Left In: 583.694+/-0.257 $\chi^2$/NDF:43773.6/2

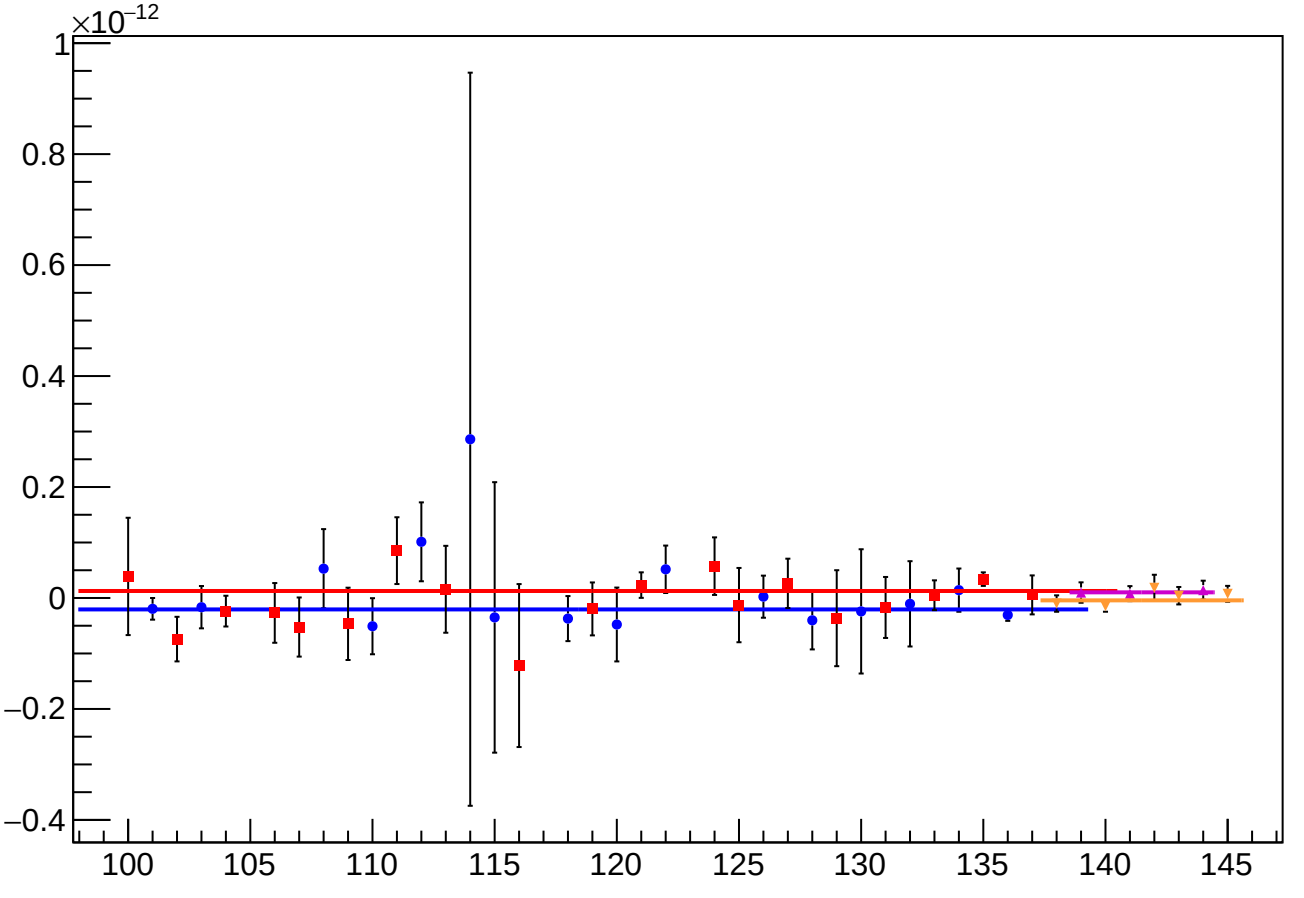
Left: 596.988+/-0.169 $\chi^2$/NDF: 80784.6/7

Right: 676.091+/-0.128 $\chi^2$/NDF: 1532404.9/34

In: 651.134+/-0.150 $\chi^2$/NDF:898469.0/18

Out: 643.700+/-0.139 $\chi^2$/NDF:852498.7/23

All: 647.135+/-0.102 $\chi^2$/NDF: 1752283.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.1/2

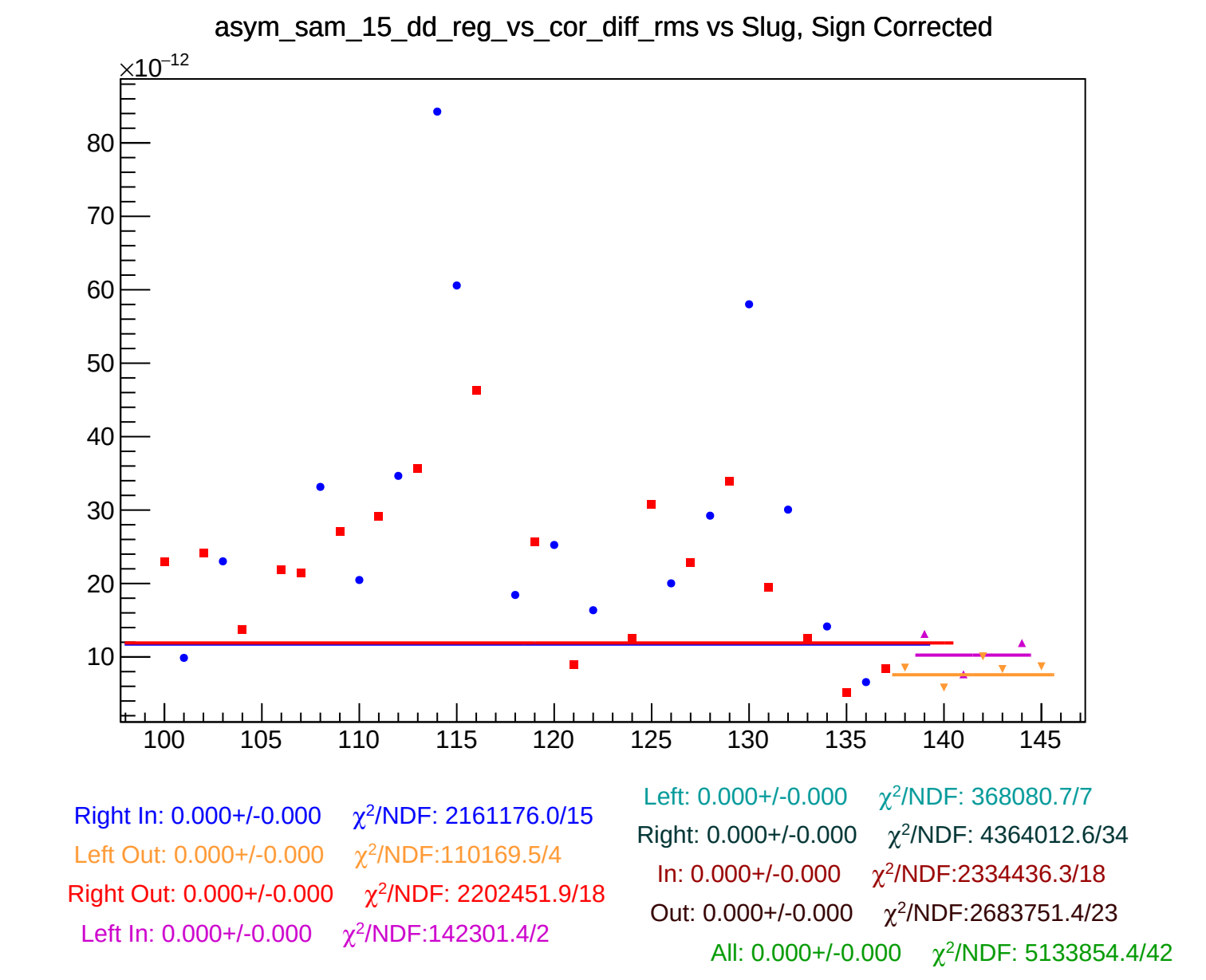
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.9/7

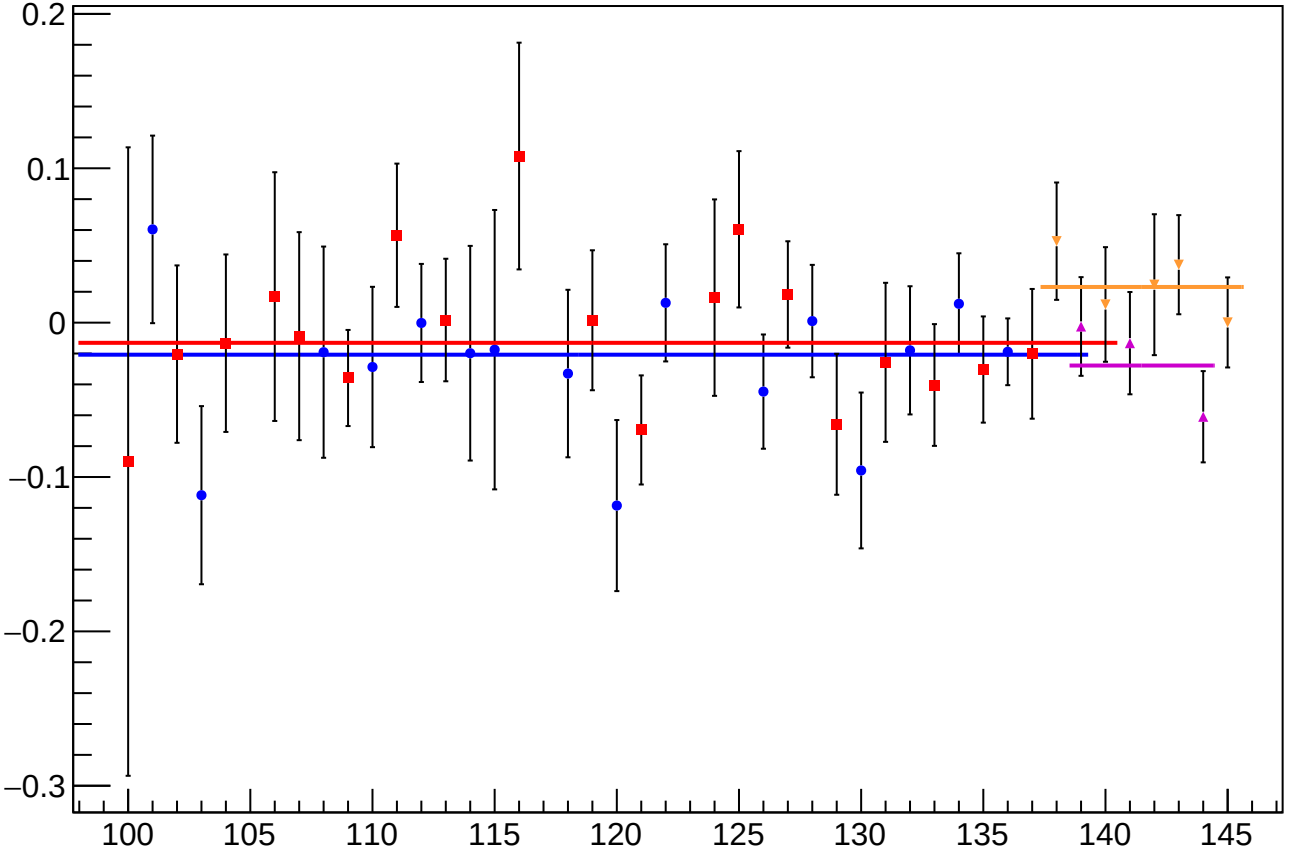
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 41.3/42


asym_sam_15_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
80
70
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2161176.0/15
Left Out: 0.000+/-0.000 χ²/NDF:110169.5/4
Right Out: 0.000+/-0.000 χ²/NDF: 2202451.9/18
Left In: 0.000+/-0.000 χ²/NDF:142301.4/2
Left: 0.000+/-0.000 χ²/NDF: 368080.7/7
Right: 0.000+/-0.000 χ²/NDF: 4364012.6/34
In: 0.000+/-0.000 χ²/NDF:2334436.3/18
Out: 0.000+/-0.000 χ²/NDF:2683751.4/23
All: 0.000+/-0.000 χ²/NDF: 5133854.4/42




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.023+/-0.016 $\chi^2$/NDF:1.5/4

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.028+/-0.018 $\chi^2$/NDF:2.1/2

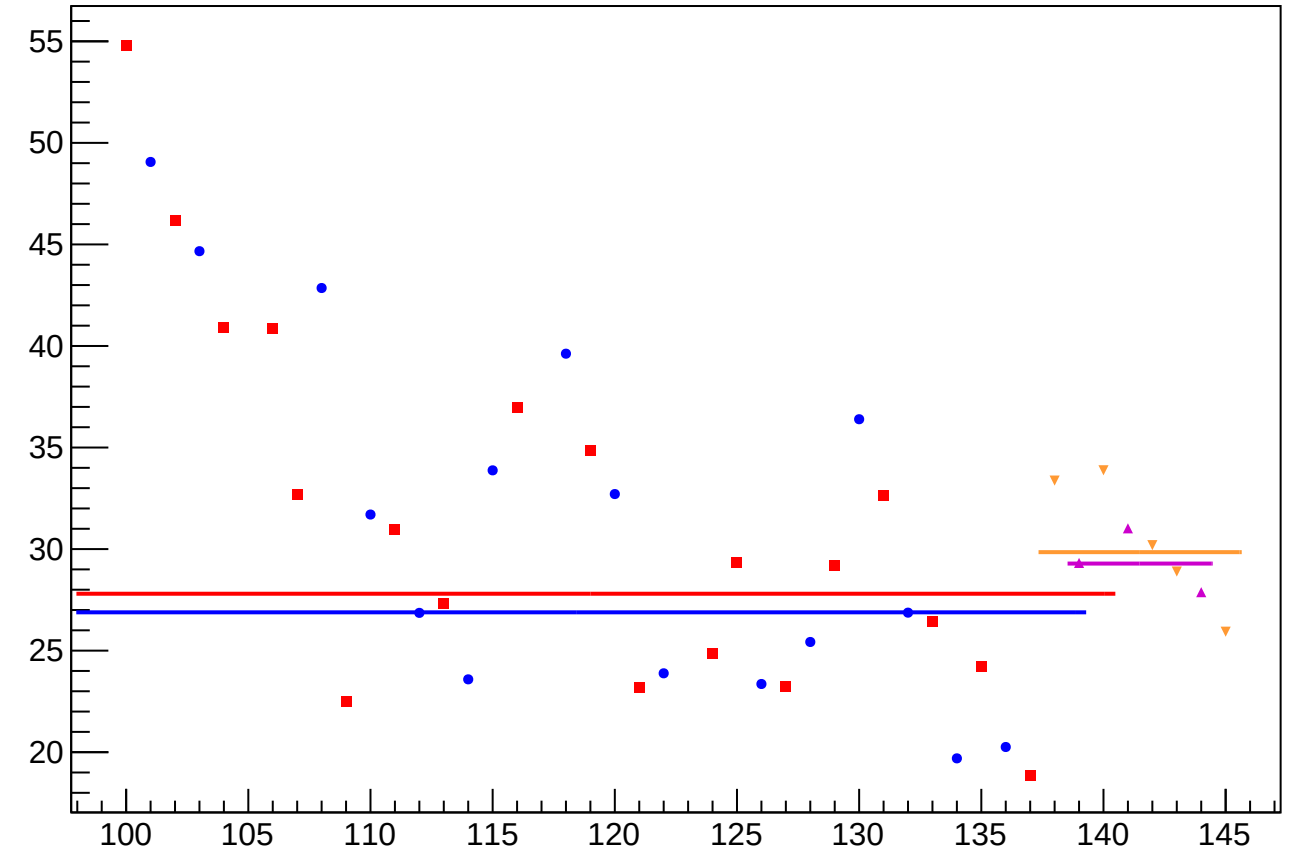
Left: 0.001+/-0.012 $\chi^2$/NDF: 8.1/7

Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.023+/-0.009 $\chi^2$/NDF:14.7/18

Out: -0.002+/-0.009 $\chi^2$/NDF:19.1/23

All: -0.012+/-0.006 $\chi^2$/NDF: 36.5/42




Right In: 26.886+/-0.007 $\chi^2$/NDF: 1120557.7/15

Left Out: 29.849+/-0.011 $\chi^2$/NDF:78702.3/4

Right Out: 27.802+/-0.007 $\chi^2$/NDF: 763106.1/18

Left In: 29.287+/-0.013 $\chi^2$/NDF:10031.2/2

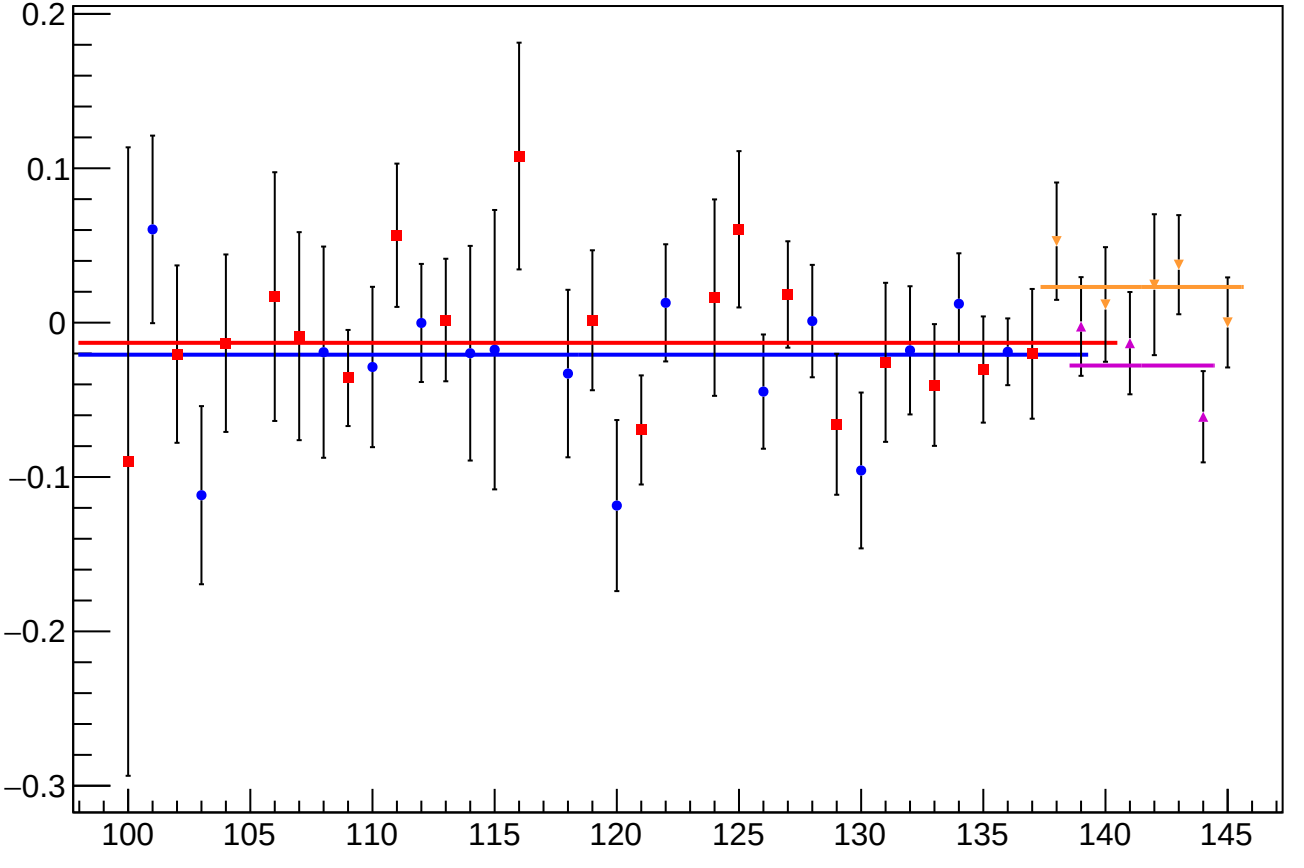
Left: 29.608+/-0.008 $\chi^2$/NDF: 89829.6/7

Right: 27.342+/-0.005 $\chi^2$/NDF: 1891228.7/34

In: 27.489+/-0.006 $\chi^2$/NDF:1156788.9/18

Out: 28.436+/-0.006 $\chi^2$/NDF:865197.4/23

All: 27.981+/-0.004 $\chi^2$/NDF: 2033255.3/42




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.023+/-0.016 $\chi^2$/NDF:1.5/4

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.028+/-0.018 $\chi^2$/NDF:2.1/2

Left: 0.001+/-0.012 $\chi^2$/NDF: 8.1/7

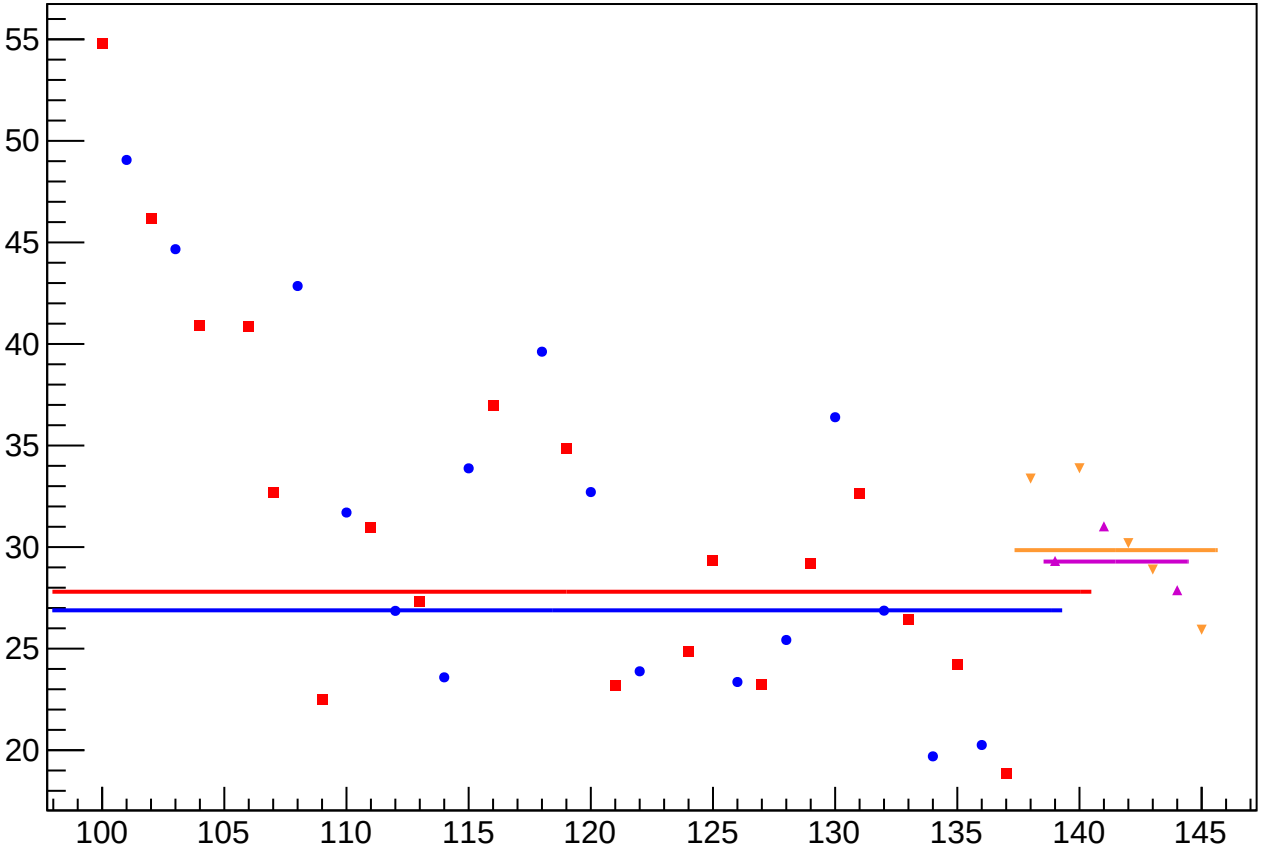
Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.023+/-0.009 $\chi^2$/NDF:14.7/18

Out: -0.002+/-0.009 $\chi^2$/NDF:19.1/23

All: -0.012+/-0.006 $\chi^2$/NDF: 36.5/42

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: 29.849+/-0.011 $\chi^2$/NDF:78702.3/4

Right Out: 27.802+/-0.007 $\chi^2$/NDF: 763106.1/18

Left In: 29.287+/-0.013 $\chi^2$/NDF:10031.2/2

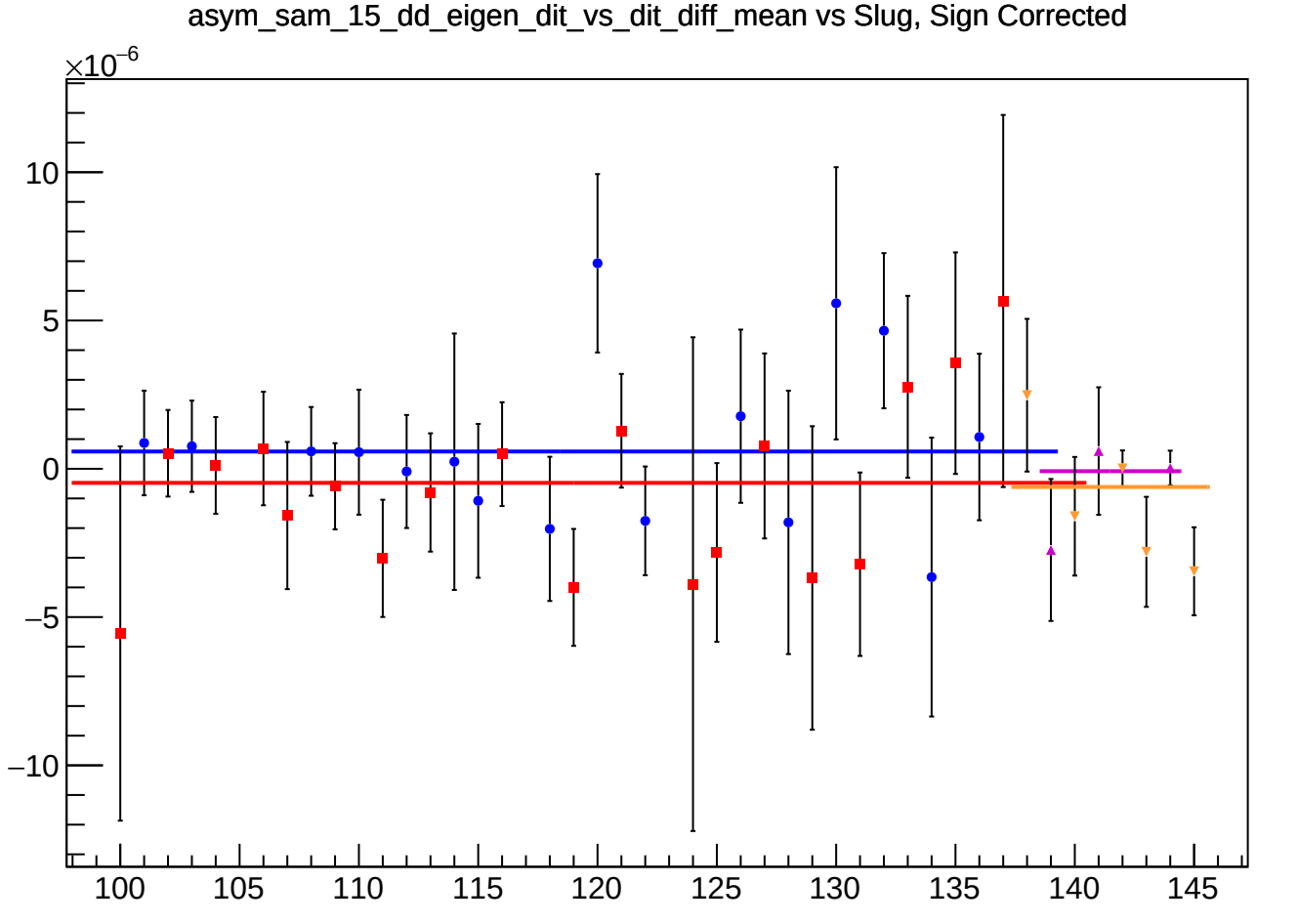
Left: 29.608+/-0.008 $\chi^2$/NDF: 89829.6/7

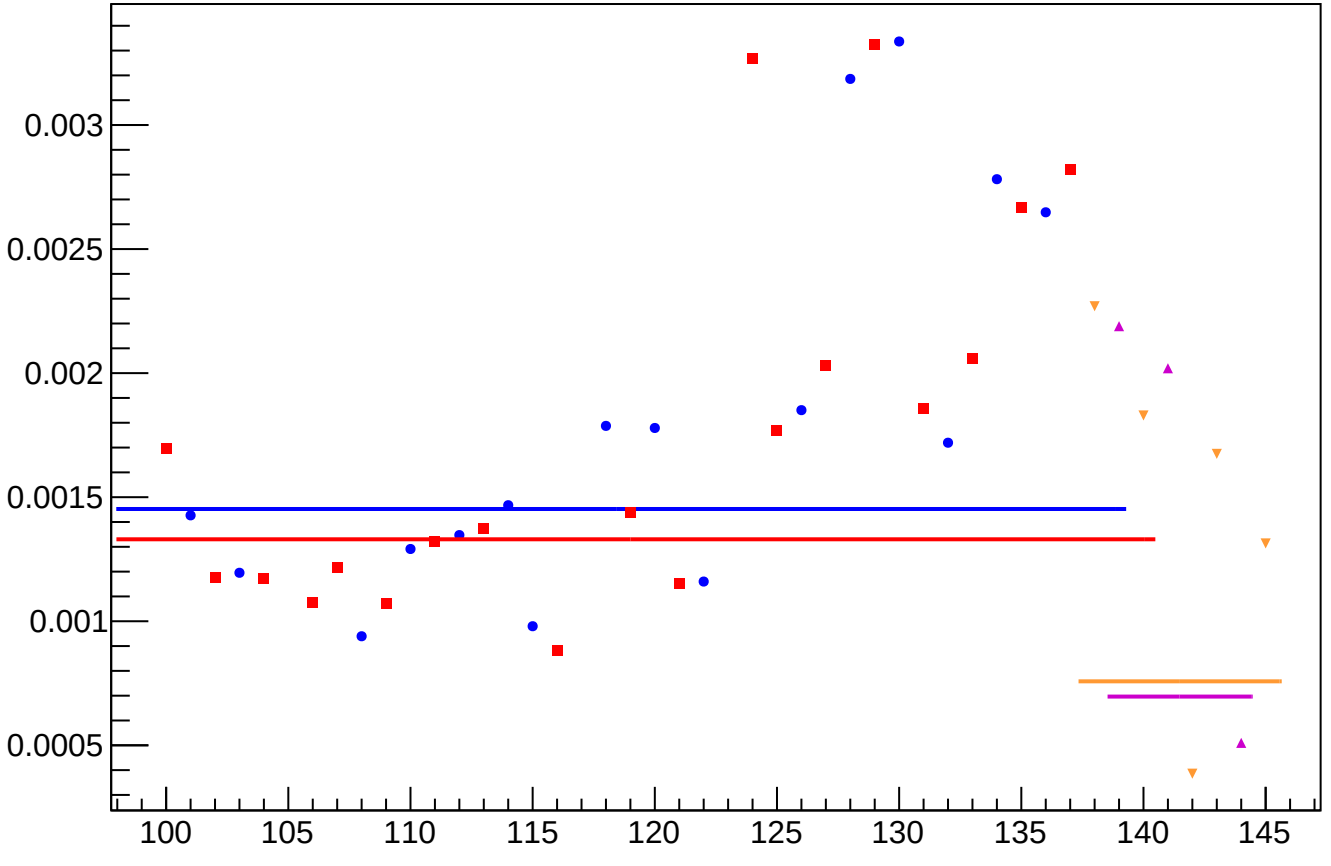
Right: 27.342+/-0.005 $\chi^2$/NDF: 1891228.7/34

In: 27.489+/-0.006 $\chi^2$/NDF:1156788.9/18

Out: 28.436+/-0.006 $\chi^2$/NDF:865197.4/23

All: 27.981+/-0.004 $\chi^2$/NDF: 2033255.3/42


asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻⁶
10
5
0
−5
−10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 12.7/15
Left Out: -0.000+/-0.000 χ²/NDF:7.8/4
Right Out: -0.000+/-0.000 χ²/NDF: 13.2/18
Left In: -0.000+/-0.000 χ²/NDF:1.4/2
Left: -0.000+/-0.000 χ²/NDF: 9.7/7
Right: -0.000+/-0.000 χ²/NDF: 27.8/34
In: 0.000+/-0.000 χ²/NDF:14.8/18
Out: -0.000+/-0.000 χ²/NDF:21.0/23
All: -0.000+/-0.000 χ²/NDF: 37.9/42




Right In: 0.001+/-0.000 $\chi^2$/NDF: 1710487.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:2788147.8/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 1402821.5/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:1738843.8/2

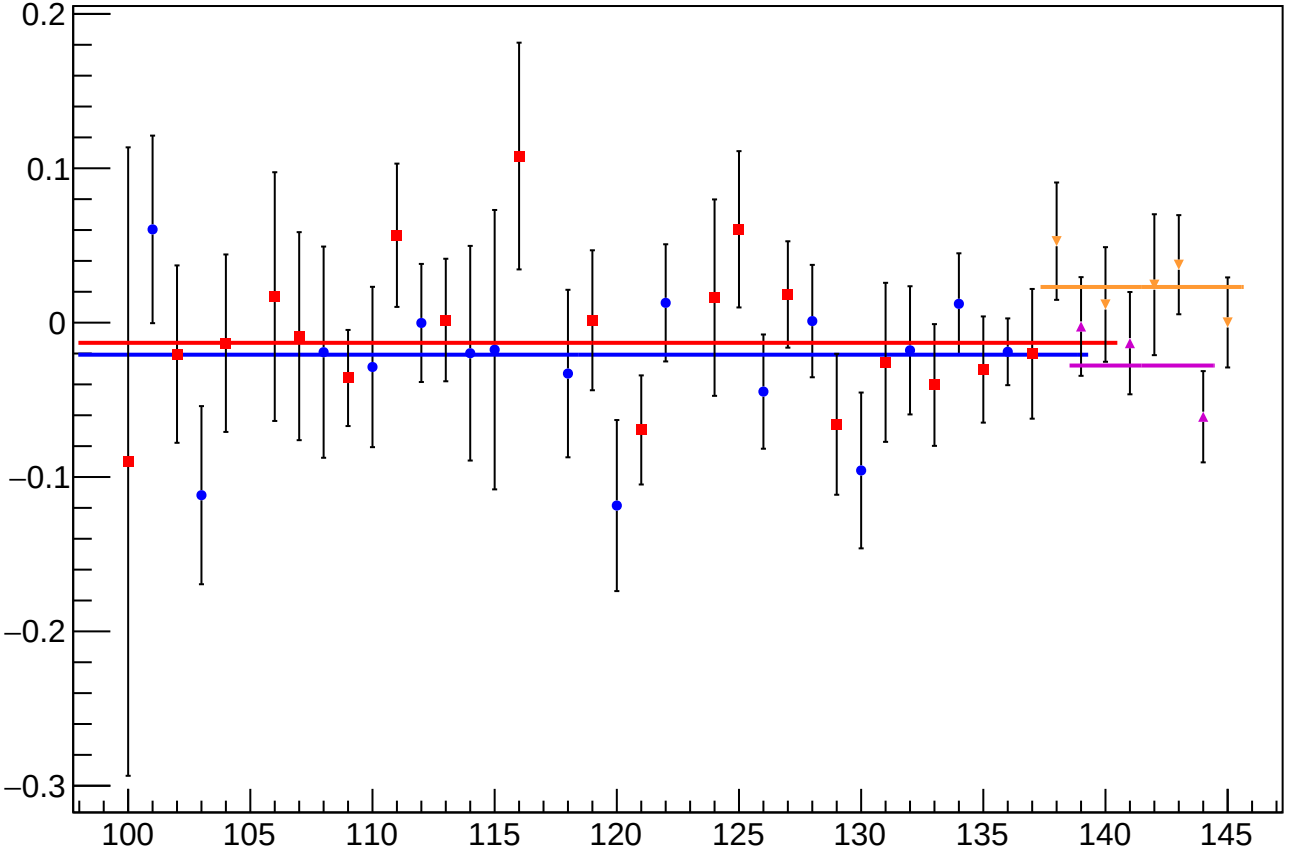
Left: 0.001+/-0.000 $\chi^2$/NDF: 4540485.9/7

Right: 0.001+/-0.000 $\chi^2$/NDF: 3162860.5/34

In: 0.001+/-0.000 $\chi^2$/NDF:5252614.3/18

Out: 0.001+/-0.000 $\chi^2$/NDF:5433776.7/23

All: 0.001+/-0.000 $\chi^2$/NDF: 10688444.4/42




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.023+/-0.016 $\chi^2$/NDF:1.5/4

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.028+/-0.018 $\chi^2$/NDF:2.1/2

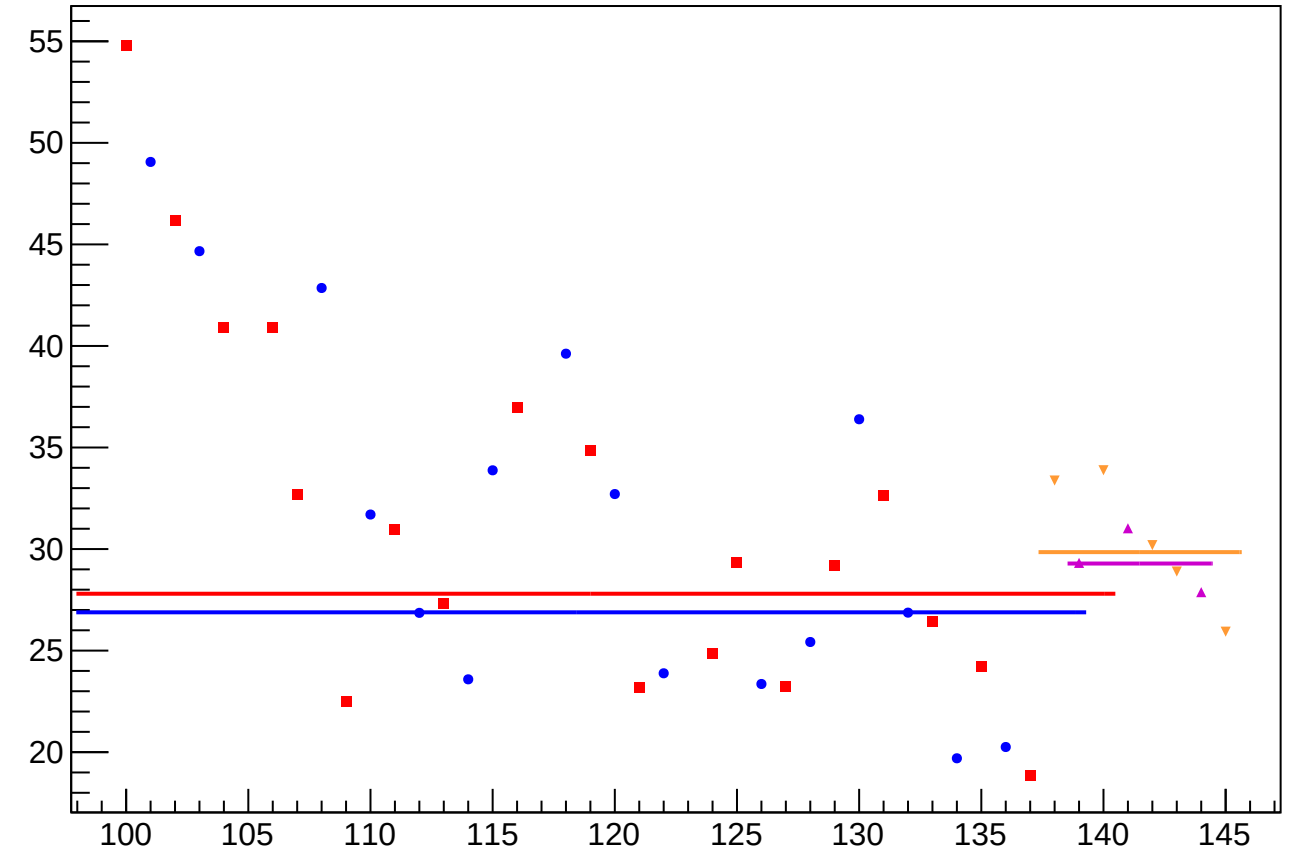
Left: 0.001+/-0.012 $\chi^2$/NDF: 8.1/7

Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.023+/-0.009 $\chi^2$/NDF:14.7/18

Out: -0.002+/-0.009 $\chi^2$/NDF:19.1/23

All: -0.012+/-0.006 $\chi^2$/NDF: 36.5/42




Right In: 26.885+/-0.007 $\chi^2$/NDF: 1120567.7/15

Left Out: 29.849+/-0.011 $\chi^2$/NDF:78731.8/4

Right Out: 27.800+/-0.007 $\chi^2$/NDF: 763213.5/18

Left In: 29.288+/-0.013 $\chi^2$/NDF:10039.1/2

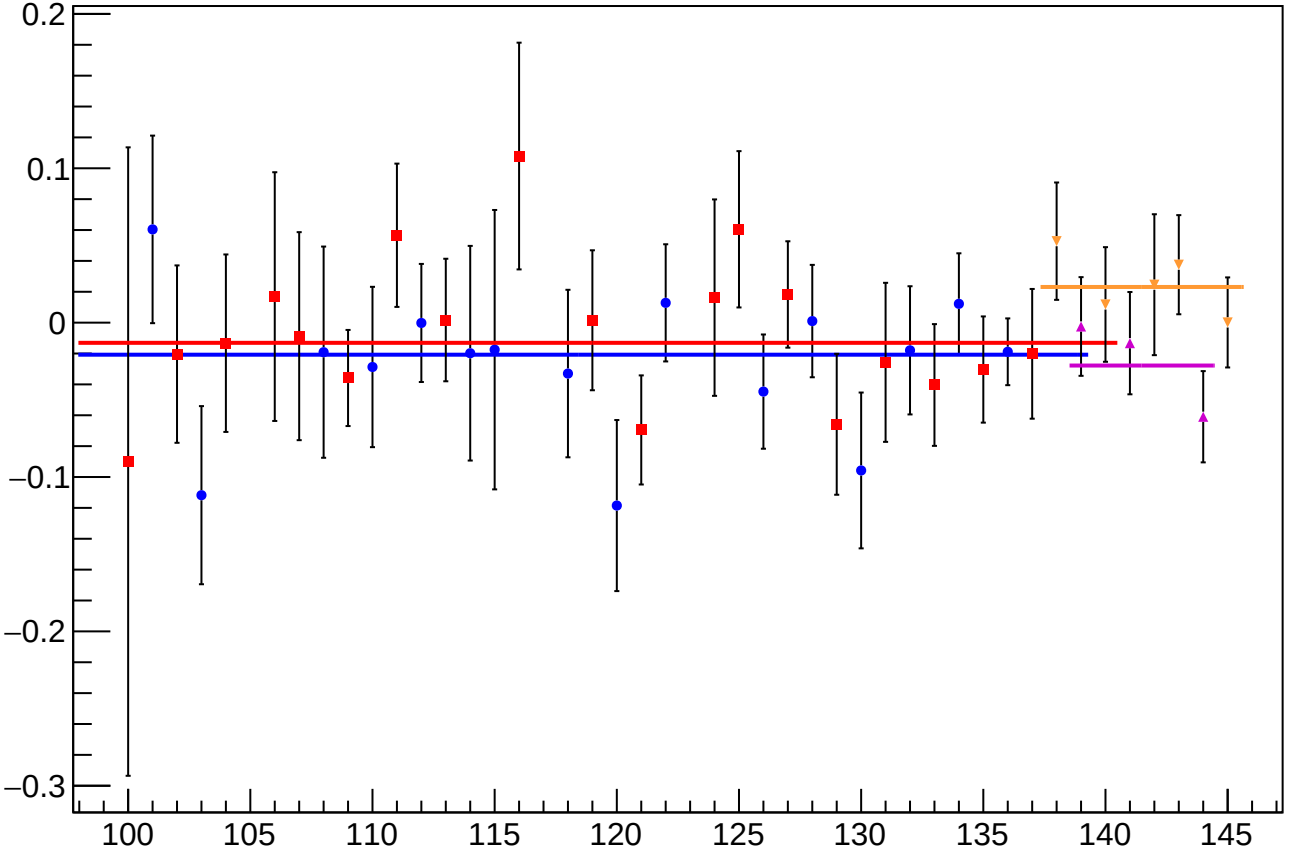
Left: 29.608+/-0.008 $\chi^2$/NDF: 89864.6/7

Right: 27.341+/-0.005 $\chi^2$/NDF: 1891338.8/34

In: 27.488+/-0.006 $\chi^2$/NDF:1156839.3/18

Out: 28.435+/-0.006 $\chi^2$/NDF:865366.7/23

All: 27.980+/-0.004 $\chi^2$/NDF: 2033465.6/42




Right In: -0.021+/-0.011 $\chi^2$/NDF: 12.5/15

Left Out: 0.023+/-0.016 $\chi^2$/NDF:1.5/4

Right Out: -0.013+/-0.011 $\chi^2$/NDF: 13.9/18

Left In: -0.028+/-0.018 $\chi^2$/NDF:2.1/2

Left: 0.001+/-0.012 $\chi^2$/NDF: 8.1/7

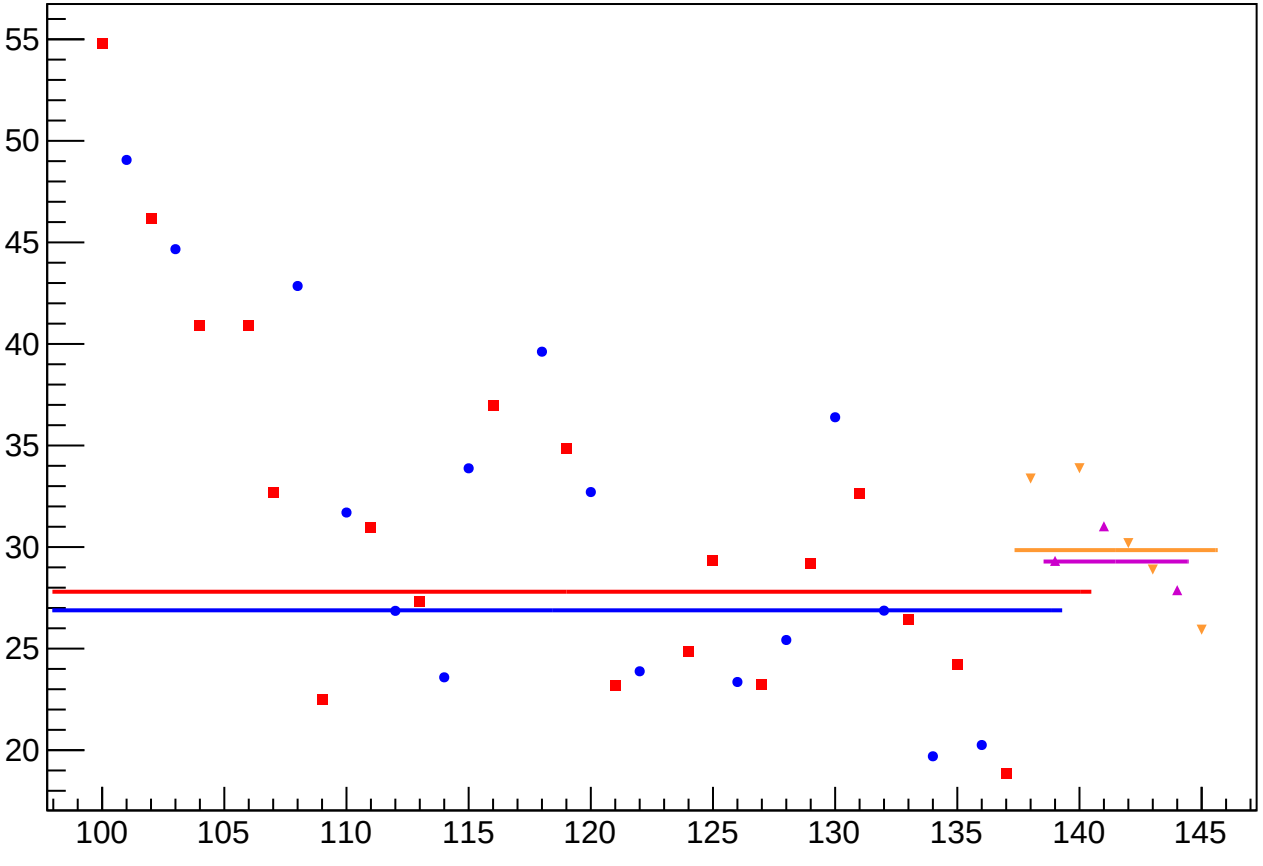
Right: -0.017+/-0.007 $\chi^2$/NDF: 26.7/34

In: -0.023+/-0.009 $\chi^2$/NDF:14.7/18

Out: -0.002+/-0.009 $\chi^2$/NDF:19.1/23

All: -0.012+/-0.006 $\chi^2$/NDF: 36.5/42

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 26.885+/-0.007 $\chi^2$/NDF: 1120567.7/15

Left Out: 29.849+/-0.011 $\chi^2$/NDF:78731.8/4

Right Out: 27.800+/-0.007 $\chi^2$/NDF: 763213.5/18

Left In: 29.288+/-0.013 $\chi^2$/NDF:10039.1/2

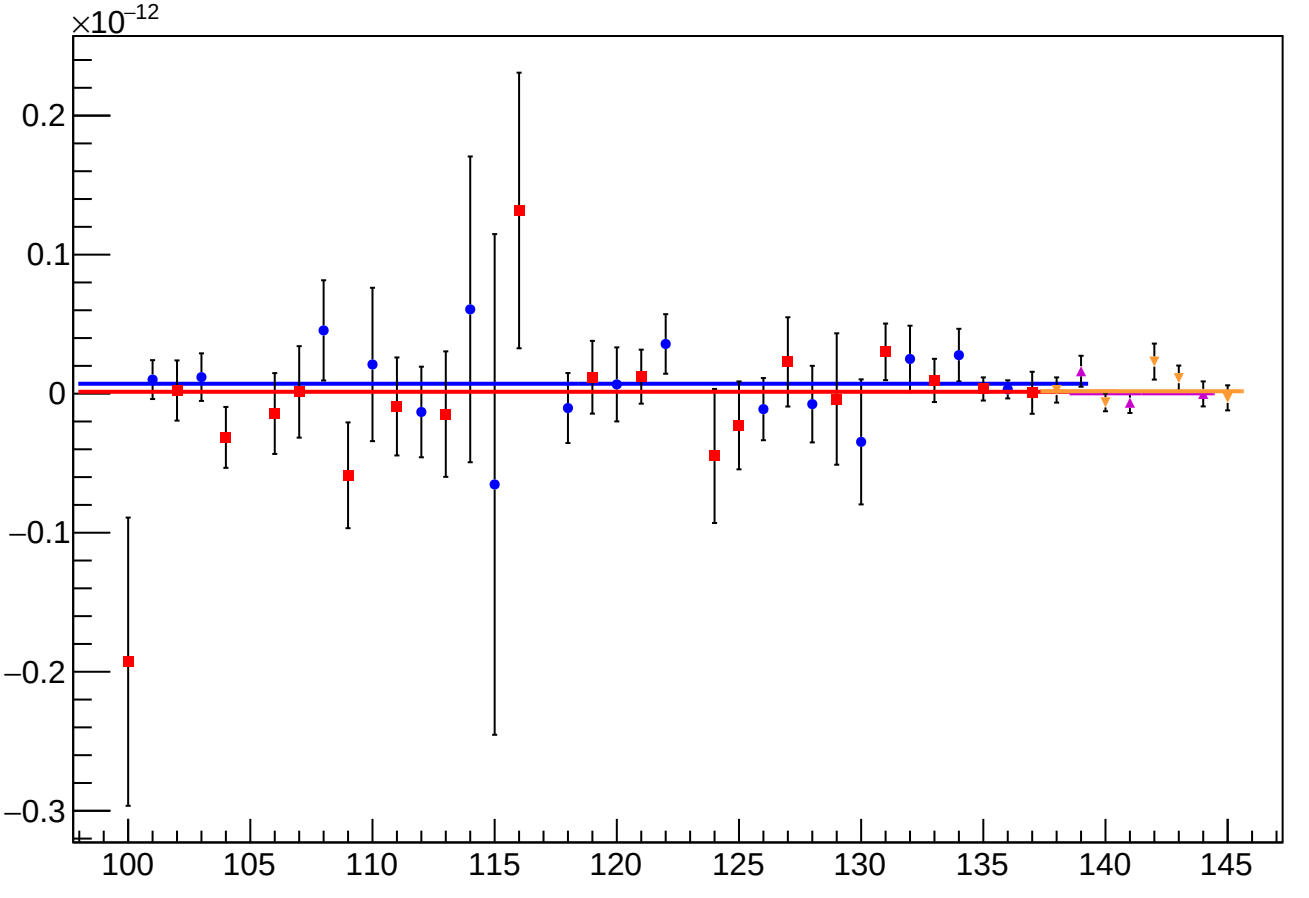
Left: 29.608+/-0.008 $\chi^2$/NDF: 89864.6/7

Right: 27.341+/-0.005 $\chi^2$/NDF: 1891338.8/34

In: 27.488+/-0.006 $\chi^2$/NDF:1156839.3/18

Out: 28.435+/-0.006 $\chi^2$/NDF:865366.7/23

All: 27.980+/-0.004 $\chi^2$/NDF: 2033465.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.9/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 8.6/7

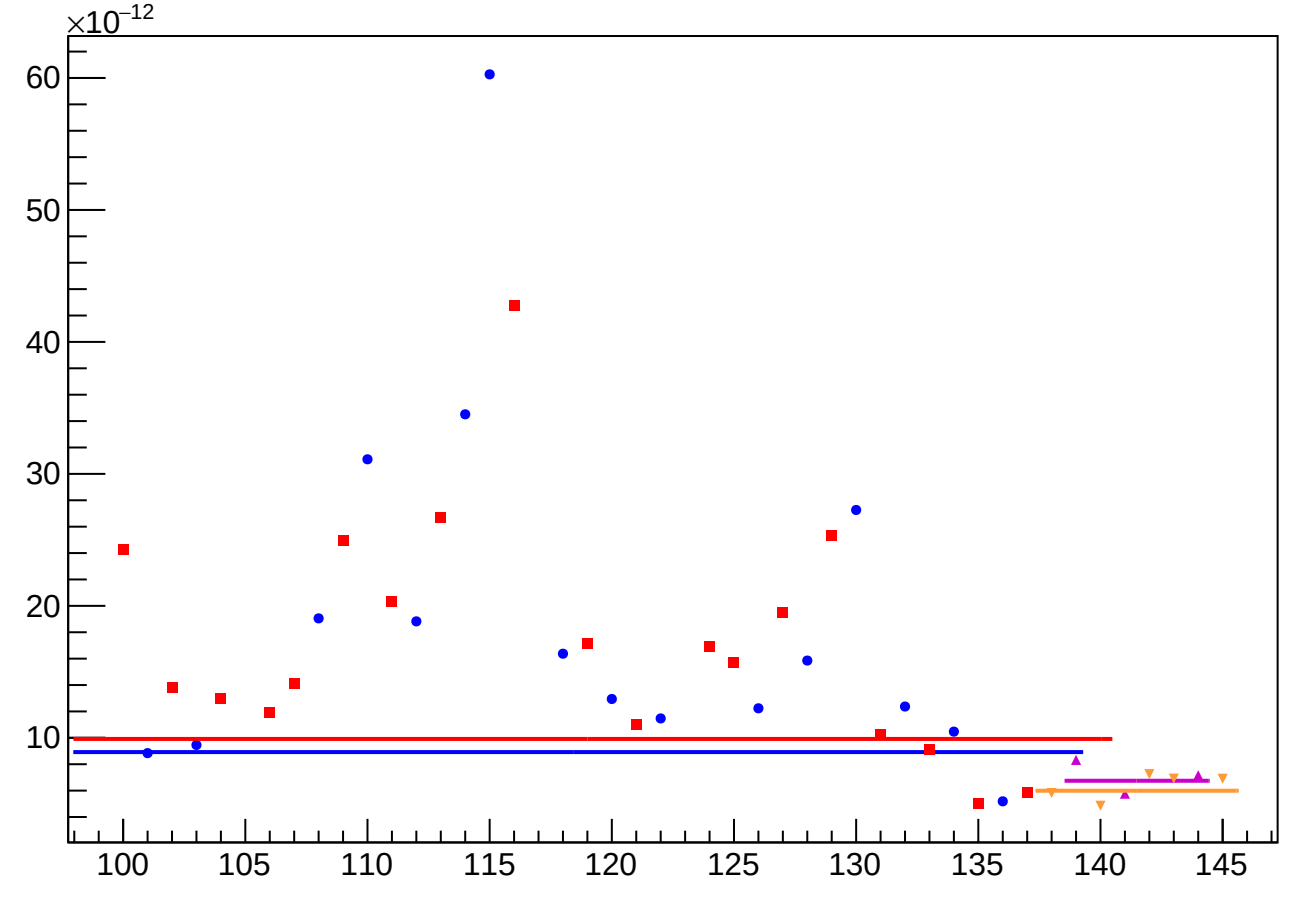
Right: 0.000+/-0.000 $\chi^2$/NDF: 24.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:12.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:20.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 33.4/42

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2402804.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:123351.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2669812.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:79733.3/2

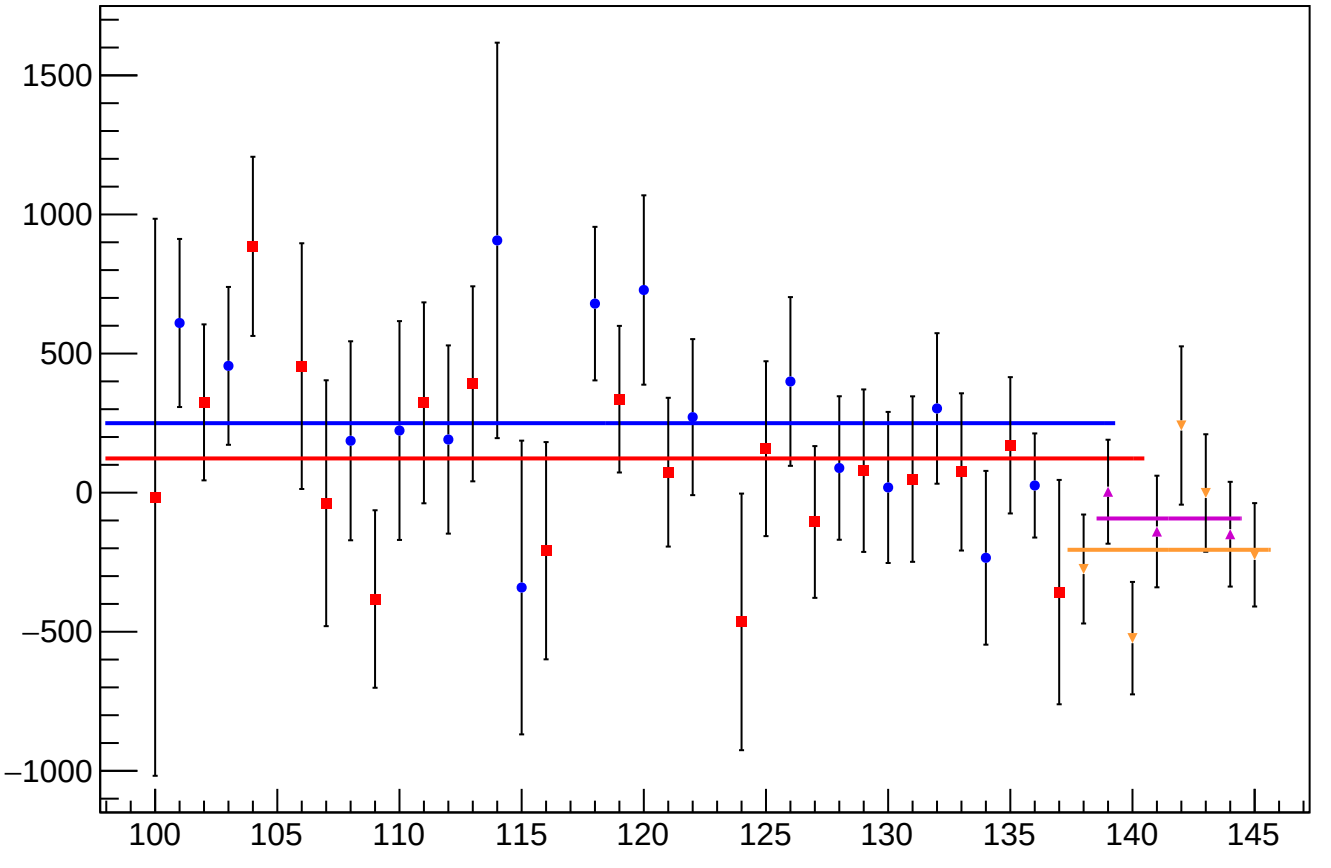
Left: 0.000+/-0.000 $\chi^2$/NDF: 231009.9/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 5116378.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:2684381.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3574341.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6279647.1/42




Right In: 249.761+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -205.398+/-93.544 $\chi^2$/NDF:6.0/4

Right Out: 122.993+/-74.370 $\chi^2$/NDF: 15.6/18

Left In: -92.863+/-110.629 $\chi^2$/NDF:0.4/2

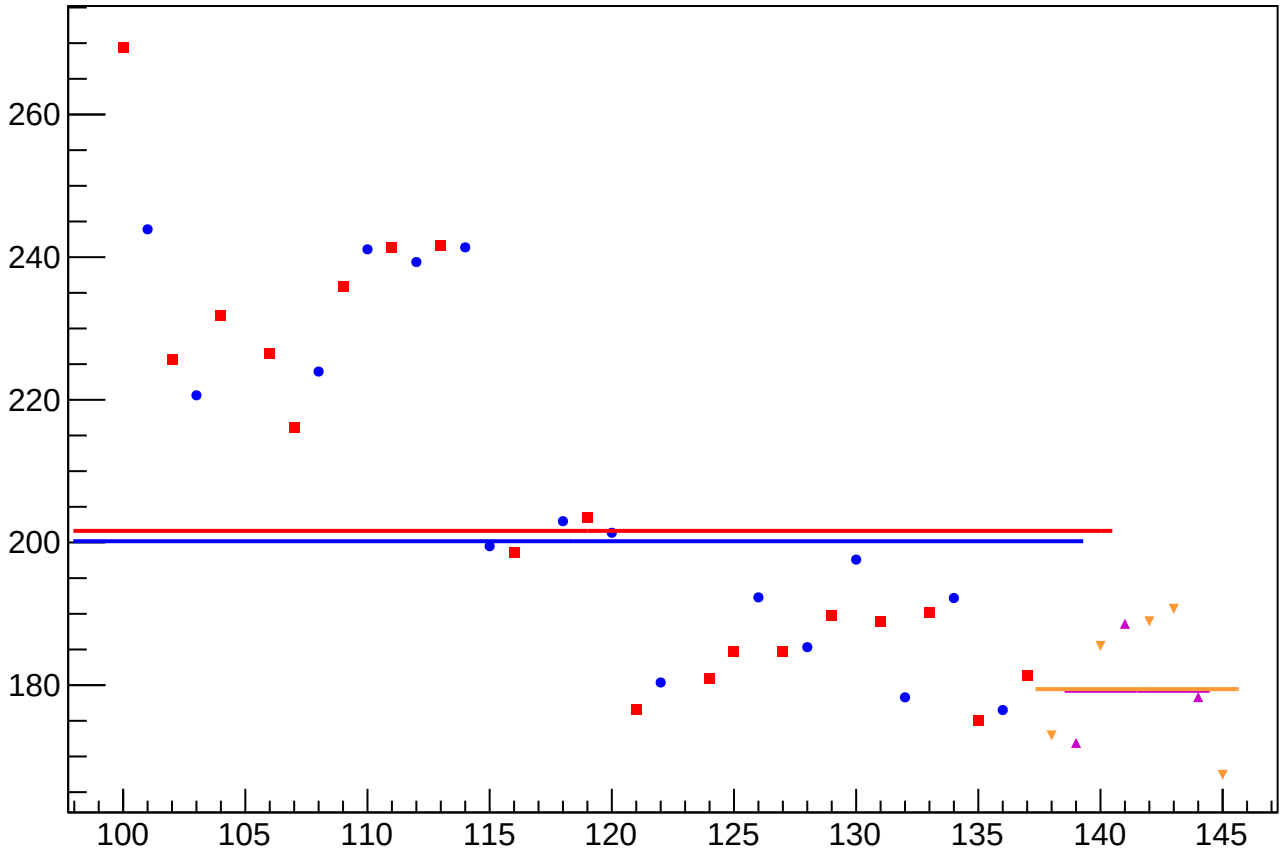
Left: -158.482+/-71.431 $\chi^2$/NDF: 7.0/7

Right: 185.946+/-52.766 $\chi^2$/NDF: 30.8/34

In: 142.117+/-62.009 $\chi^2$/NDF:20.7/18

Out: -4.187+/-58.214 $\chi^2$/NDF:29.1/23

All: 64.351+/-42.442 $\chi^2$/NDF: 52.8/42




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.3/15

Left Out: 179.444+/-0.066 $\chi^2$/NDF:20264.4/4

Right Out: 201.627+/-0.053 $\chi^2$/NDF: 197245.7/18

Left In: 179.202+/-0.078 $\chi^2$/NDF:7490.3/2

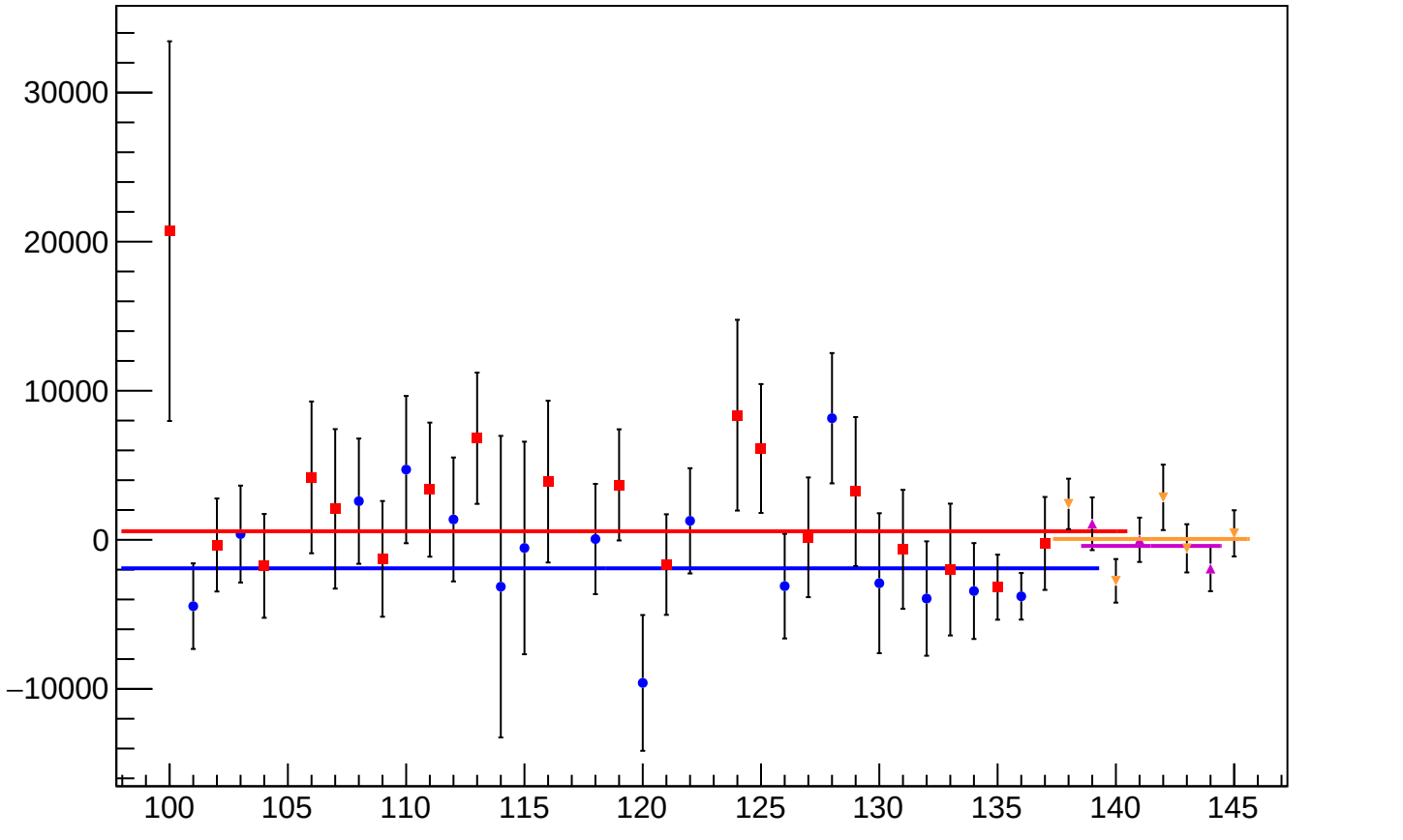
Left: 179.343+/-0.051 $\chi^2$/NDF: 27760.3/7

Right: 200.907+/-0.037 $\chi^2$/NDF: 378624.7/34

In: 193.587+/-0.044 $\chi^2$/NDF:237797.6/18

Out: 193.036+/-0.041 $\chi^2$/NDF:286426.7/23

All: 193.294+/-0.030 $\chi^2$/NDF: 524308.3/42




Right In: -1910.348+/-859.088 $\chi^2$/NDF: 16.3/15

Left Out: 58.285+/-740.394 $\chi^2$/NDF:7.5/4

Right Out: 570.946+/-900.451 $\chi^2$/NDF: 14.6/18

Left In: -410.064+/-909.909 $\chi^2$/NDF:1.8/2

Left: -128.284+/-574.292 $\chi^2$/NDF: 9.4/7

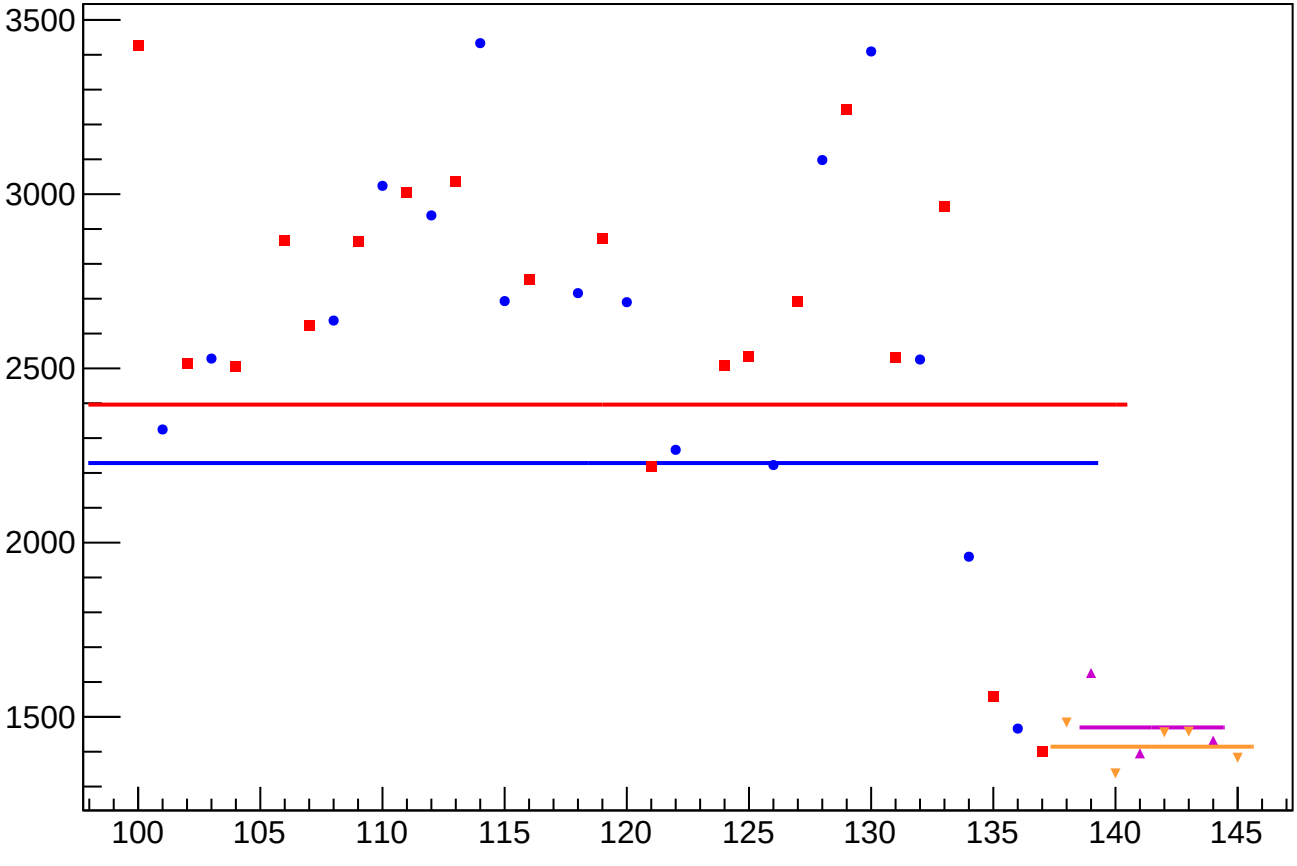
Right: -728.000+/-621.575 $\chi^2$/NDF: 34.9/34

In: -1203.273+/-624.661 $\chi^2$/NDF:19.5/18

Out: 265.078+/-571.892 $\chi^2$/NDF:22.3/23

All: -404.467+/-421.813 $\chi^2$/NDF: 44.8/42

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: 1414.447+/-0.524 $\chi^2$/NDF:11840.9/4

Right Out: 2396.080+/-0.637 $\chi^2$/NDF: 799442.5/18

Left In: 1469.687+/-0.643 $\chi^2$/NDF:21878.3/2

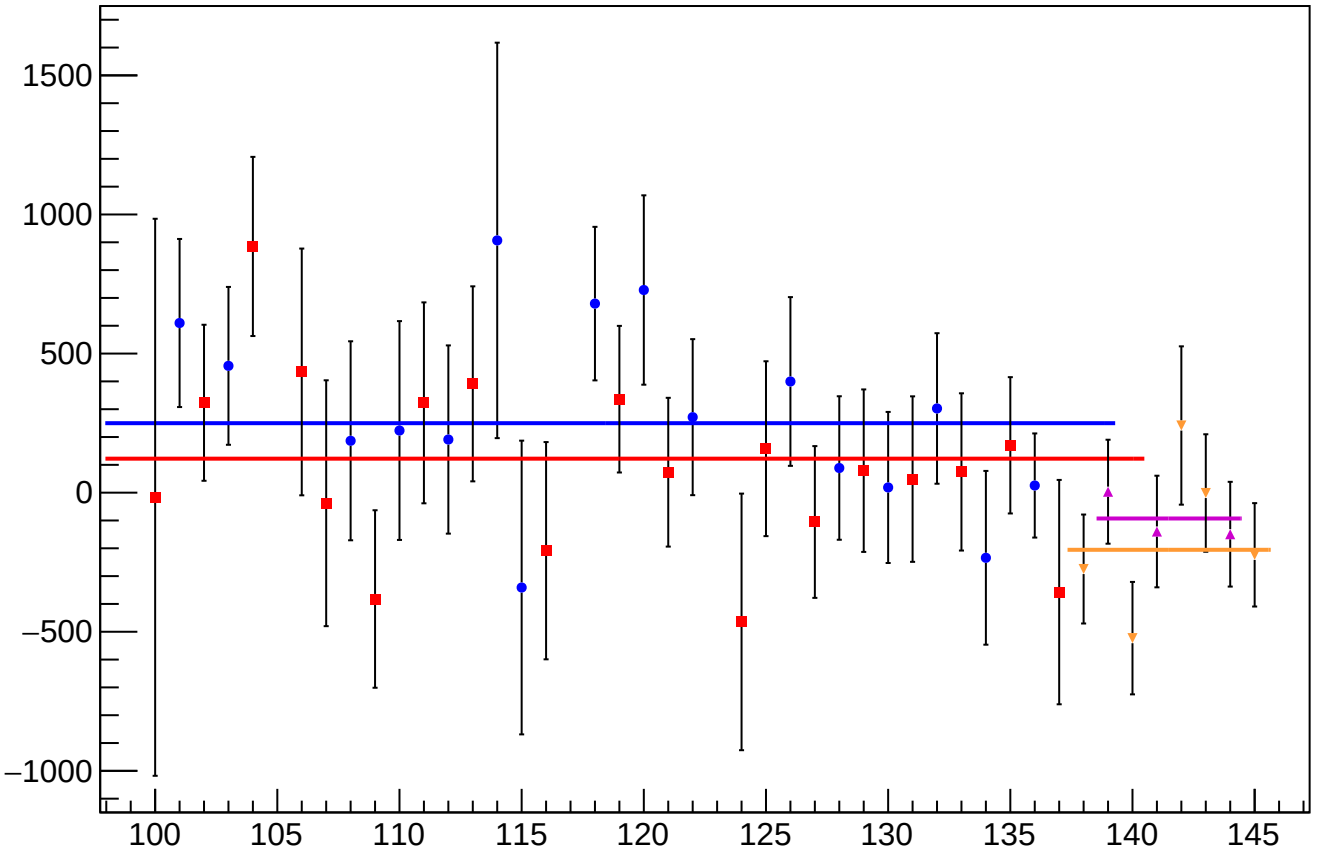
Left: 1436.452+/-0.406 $\chi^2$/NDF: 38154.1/7

Right: 2308.317+/-0.440 $\chi^2$/NDF: 1783390.1/34

In: 1870.839+/-0.442 $\chi^2$/NDF:1704788.0/18

Out: 1810.411+/-0.404 $\chi^2$/NDF:2229394.3/23

All: 1837.966+/-0.298 $\chi^2$/NDF: 3944364.2/42




Right In: 249.764+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -205.401+/-93.544 $\chi^2$/NDF:6.0/4

Right Out: 122.210+/-74.380 $\chi^2$/NDF: 15.5/18

Left In: -92.848+/-110.629 $\chi^2$/NDF:0.4/2

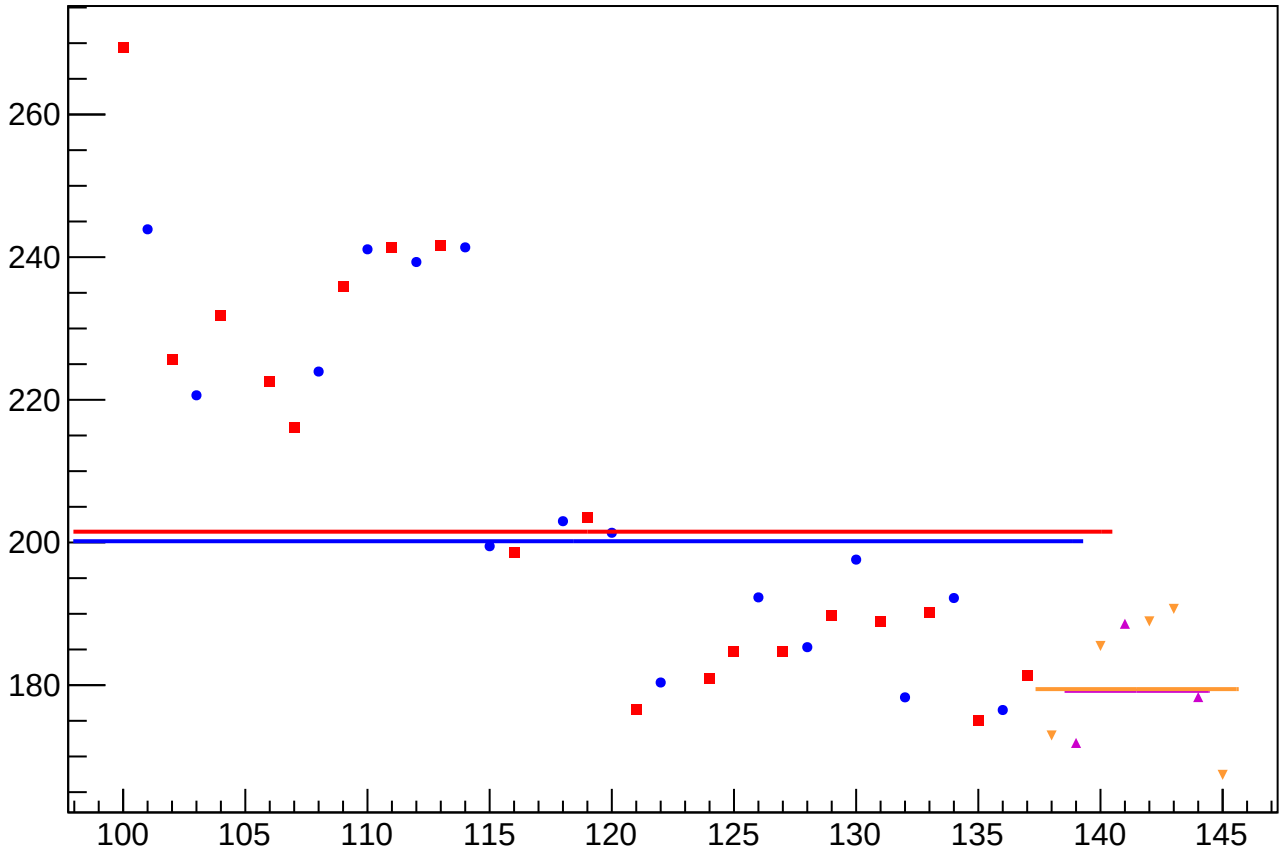
Left: -158.478+/-71.431 $\chi^2$/NDF: 7.0/7

Right: 185.562+/-52.770 $\chi^2$/NDF: 30.7/34

In: 142.124+/-62.009 $\chi^2$/NDF:20.7/18

Out: -4.689+/-58.219 $\chi^2$/NDF:29.0/23

All: 64.093+/-42.444 $\chi^2$/NDF: 52.7/42




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.6/15

Left Out: 179.444+/-0.066 $\chi^2$/NDF:20264.4/4

Right Out: 201.514+/-0.053 $\chi^2$/NDF: 195431.2/18

Left In: 179.202+/-0.078 $\chi^2$/NDF:7490.3/2

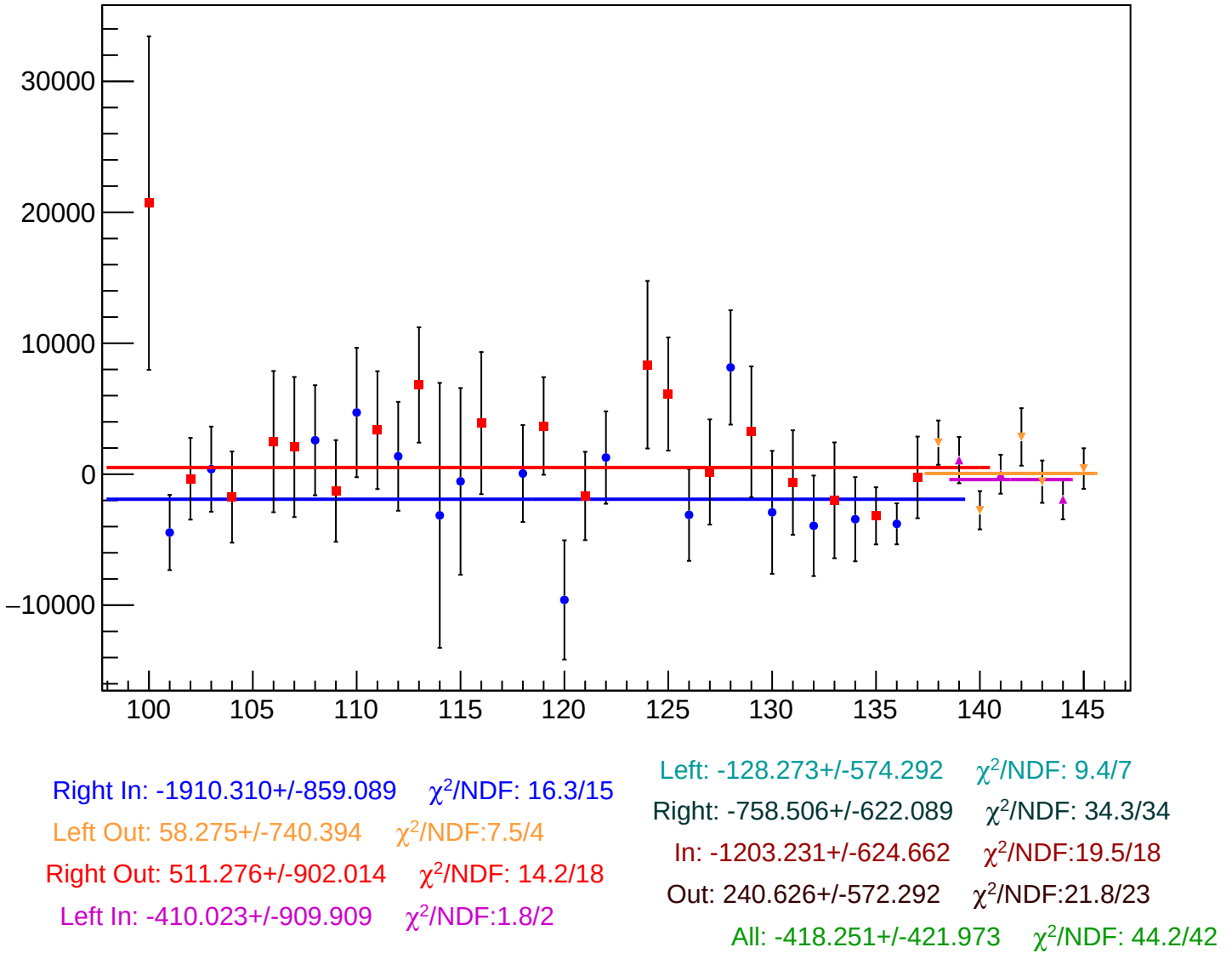
Left: 179.343+/-0.051 $\chi^2$/NDF: 27760.3/7

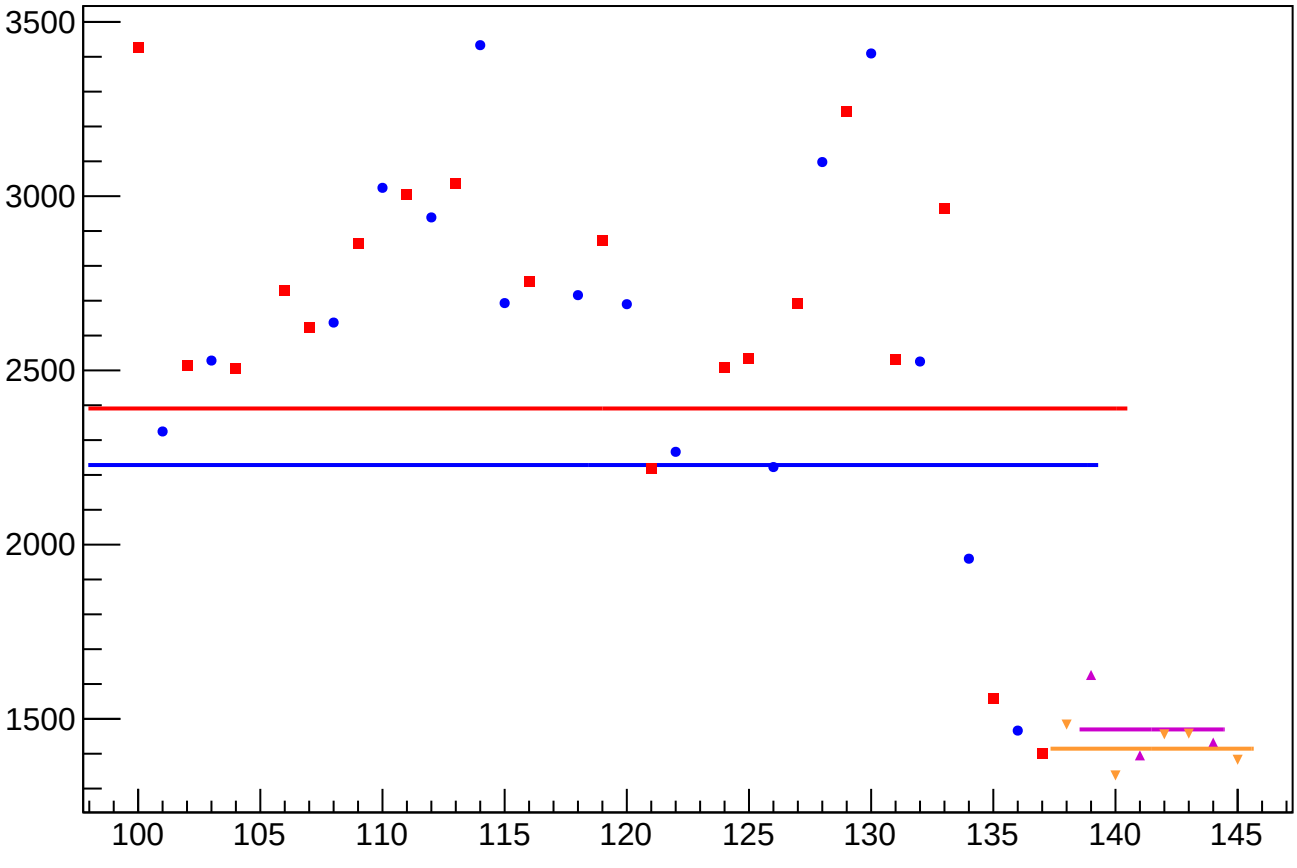
Right: 200.850+/-0.037 $\chi^2$/NDF: 376754.0/34

In: 193.587+/-0.044 $\chi^2$/NDF:237798.0/18

Out: 192.965+/-0.041 $\chi^2$/NDF:283906.0/23

All: 193.257+/-0.030 $\chi^2$/NDF: 521810.8/42


asym_sam_26_dd_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -1910.310+/-859.089 χ²/NDF: 16.3/15
Left Out: 58.275+/-740.394 χ²/NDF:7.5/4
Right Out: 511.276+/-902.014 χ²/NDF: 14.2/18
Left In: -410.023+/-909.909 χ²/NDF:1.8/2
Left: -128.273+/-574.292 χ²/NDF: 9.4/7
Right: -758.506+/-622.089 χ²/NDF: 34.3/34
In: -1203.231+/-624.662 χ²/NDF:19.5/18
Out: 240.626+/-572.292 χ²/NDF:21.8/23
All: -418.251+/-421.973 χ²/NDF: 44.2/42




Right In: 2228.435+/-0.607 $\chi^2$/NDF: 947659.2/15

Left Out: 1414.447+/-0.524 $\chi^2$/NDF:11841.3/4

Right Out: 2390.731+/-0.638 $\chi^2$/NDF: 790004.4/18

Left In: 1469.687+/-0.643 $\chi^2$/NDF:21878.4/2

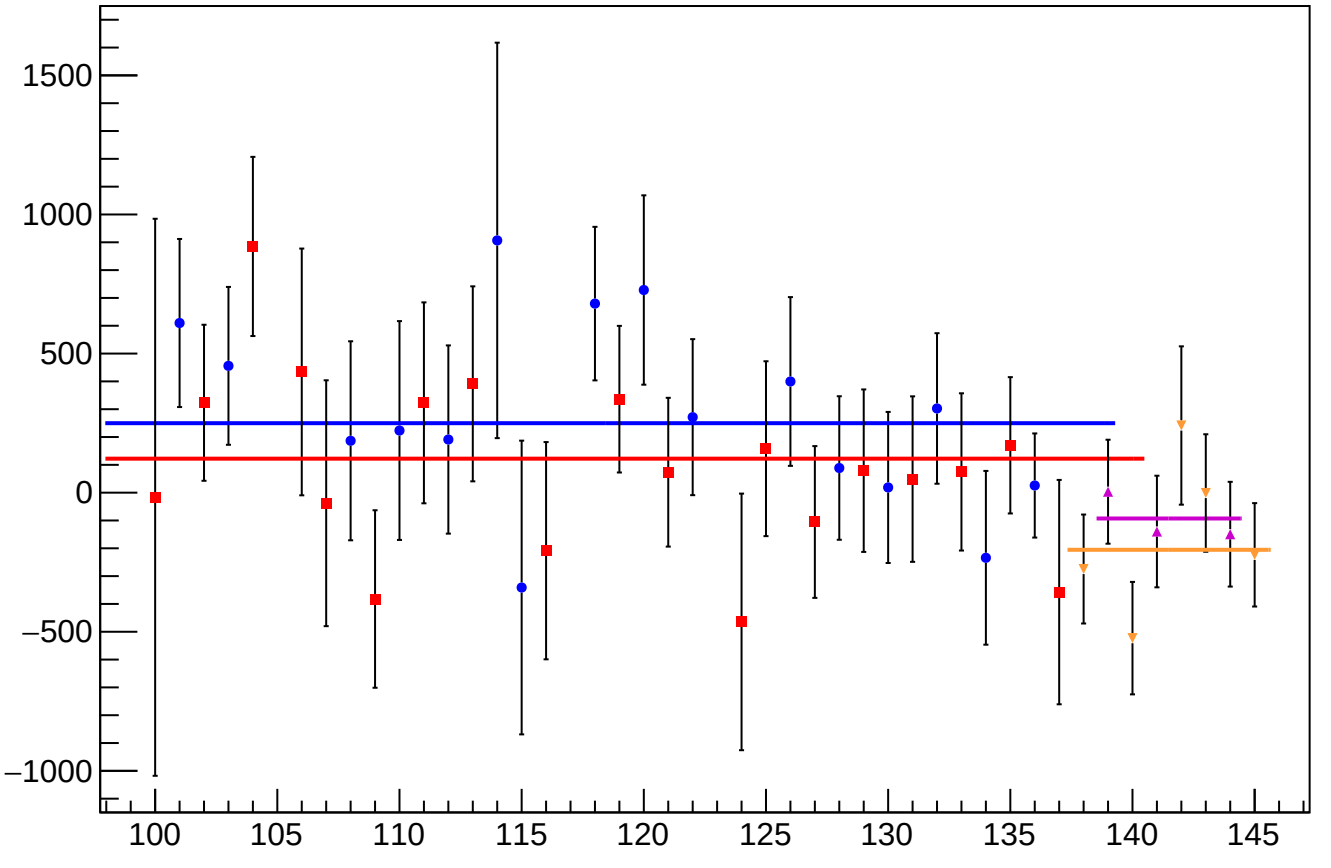
Left: 1436.452+/-0.406 $\chi^2$/NDF: 38154.7/7

Right: 2305.630+/-0.440 $\chi^2$/NDF: 1771614.3/34

In: 1870.841+/-0.442 $\chi^2$/NDF:1704798.6/18

Out: 1807.439+/-0.405 $\chi^2$/NDF:2201643.5/23

All: 1836.371+/-0.298 $\chi^2$/NDF: 3917643.5/42




Right In: 249.764+/-74.877 $\chi^2$/NDF: 13.8/15

Left Out: -205.401+/-93.544 $\chi^2$/NDF:6.0/4

Right Out: 122.210+/-74.380 $\chi^2$/NDF: 15.5/18

Left In: -92.848+/-110.629 $\chi^2$/NDF:0.4/2

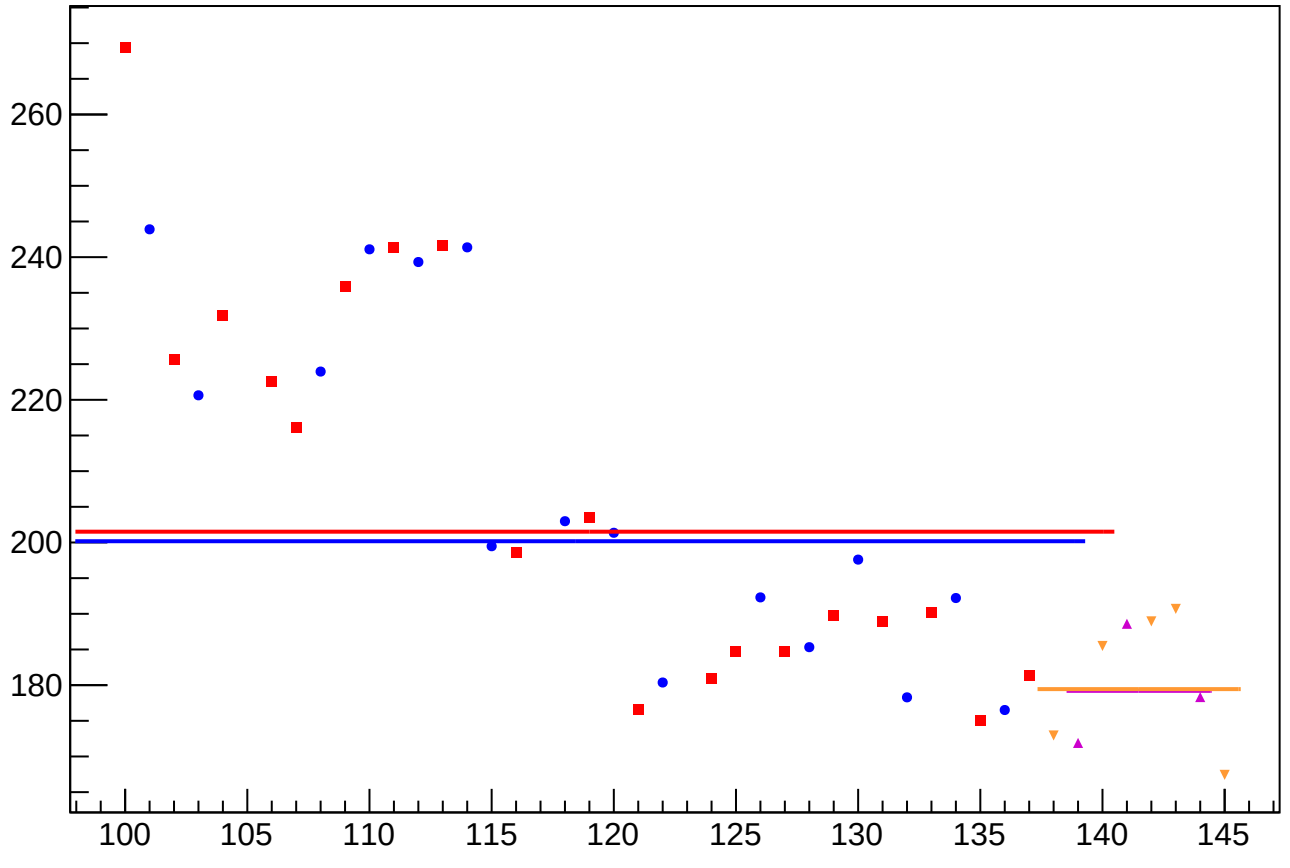
Left: -158.478+/-71.431 $\chi^2$/NDF: 7.0/7

Right: 185.562+/-52.770 $\chi^2$/NDF: 30.7/34

In: 142.124+/-62.009 $\chi^2$/NDF:20.7/18

Out: -4.689+/-58.219 $\chi^2$/NDF:29.0/23

All: 64.093+/-42.444 $\chi^2$/NDF: 52.7/42




Right In: 200.177+/-0.053 $\chi^2$/NDF: 181001.6/15

Left Out: 179.444+/-0.066 $\chi^2$/NDF:20264.4/4

Right Out: 201.514+/-0.053 $\chi^2$/NDF: 195431.2/18

Left In: 179.202+/-0.078 $\chi^2$/NDF:7490.3/2

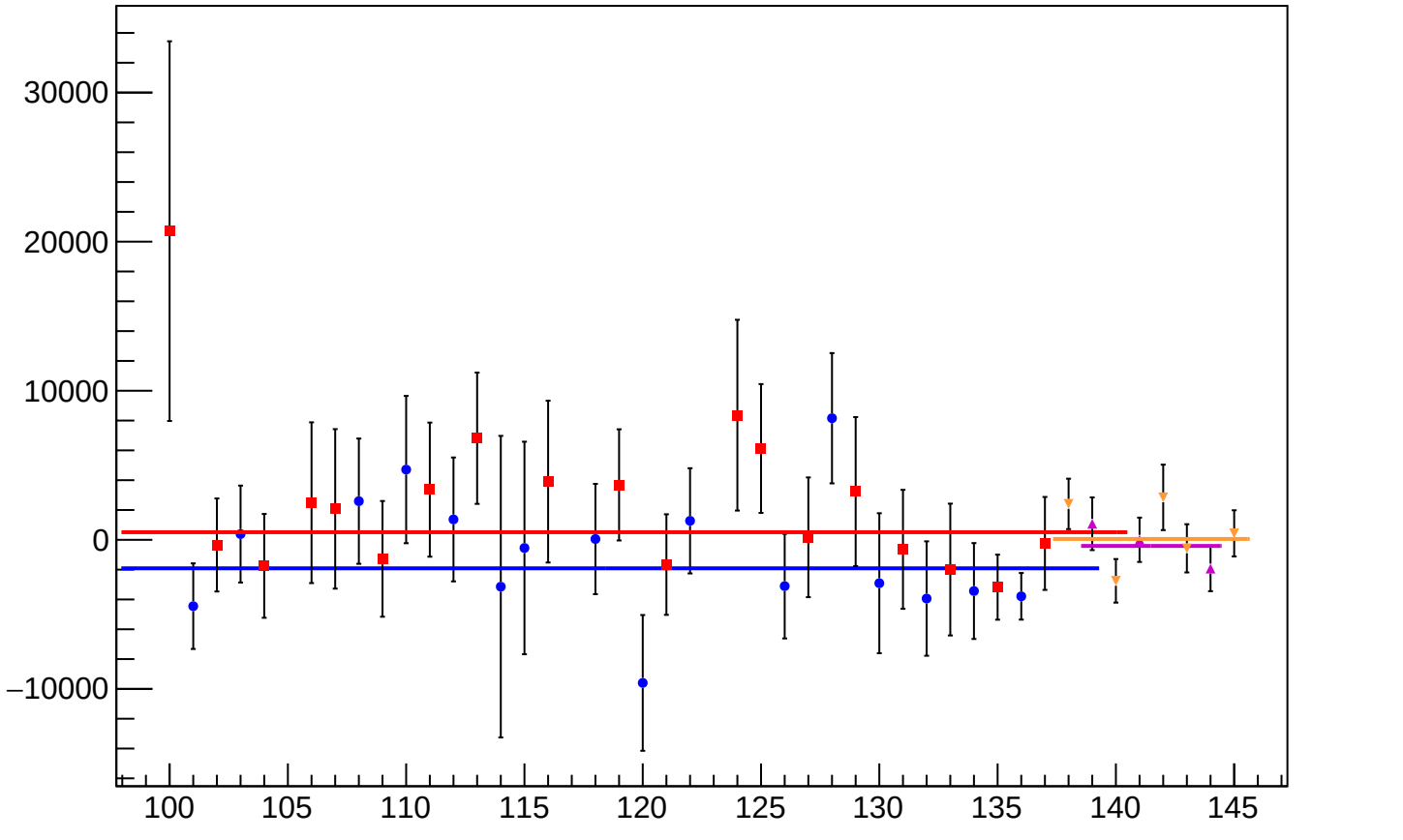
Left: 179.343+/-0.051 $\chi^2$/NDF: 27760.3/7

Right: 200.850+/-0.037 $\chi^2$/NDF: 376754.0/34

In: 193.587+/-0.044 $\chi^2$/NDF:237798.0/18

Out: 192.965+/-0.041 $\chi^2$/NDF:283906.0/23

All: 193.257+/-0.030 $\chi^2$/NDF: 521810.8/42




Right In: -1910.310+/-859.089 $\chi^2$/NDF: 16.3/15

Left Out: 58.275+/-740.394 $\chi^2$/NDF:7.5/4

Right Out: 511.276+/-902.014 $\chi^2$/NDF: 14.2/18

Left In: -410.023+/-909.909 $\chi^2$/NDF:1.8/2

Left: -128.273+/-574.292 $\chi^2$/NDF: 9.4/7

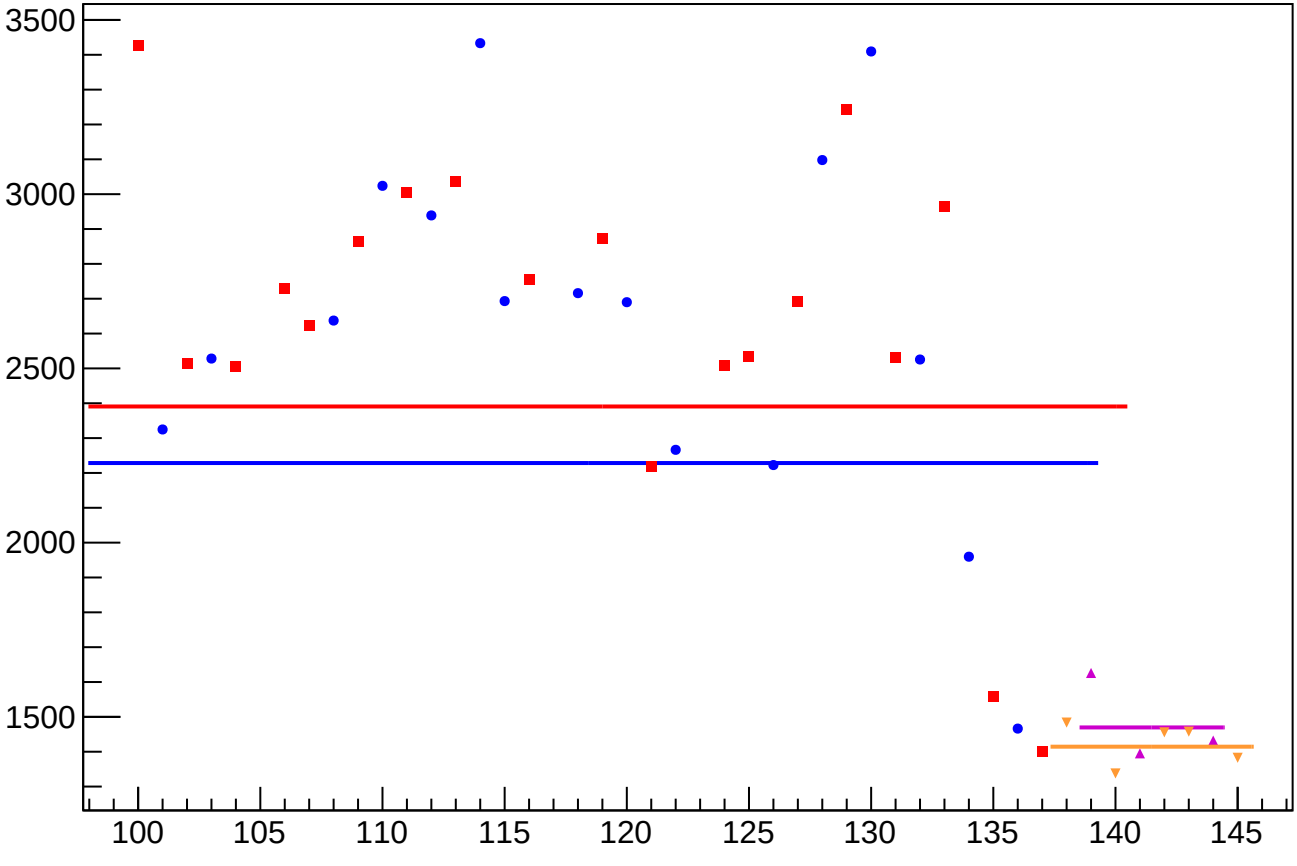
Right: -758.506+/-622.089 $\chi^2$/NDF: 34.3/34

In: -1203.231+/-624.662 $\chi^2$/NDF:19.5/18

Out: 240.626+/-572.292 $\chi^2$/NDF:21.8/23

All: -418.251+/-421.973 $\chi^2$/NDF: 44.2/42

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: 1414.447+/-0.524 $\chi^2$/NDF:11841.3/4

Right Out: 2390.731+/-0.638 $\chi^2$/NDF: 790004.4/18

Left In: 1469.687+/-0.643 $\chi^2$/NDF:21878.4/2

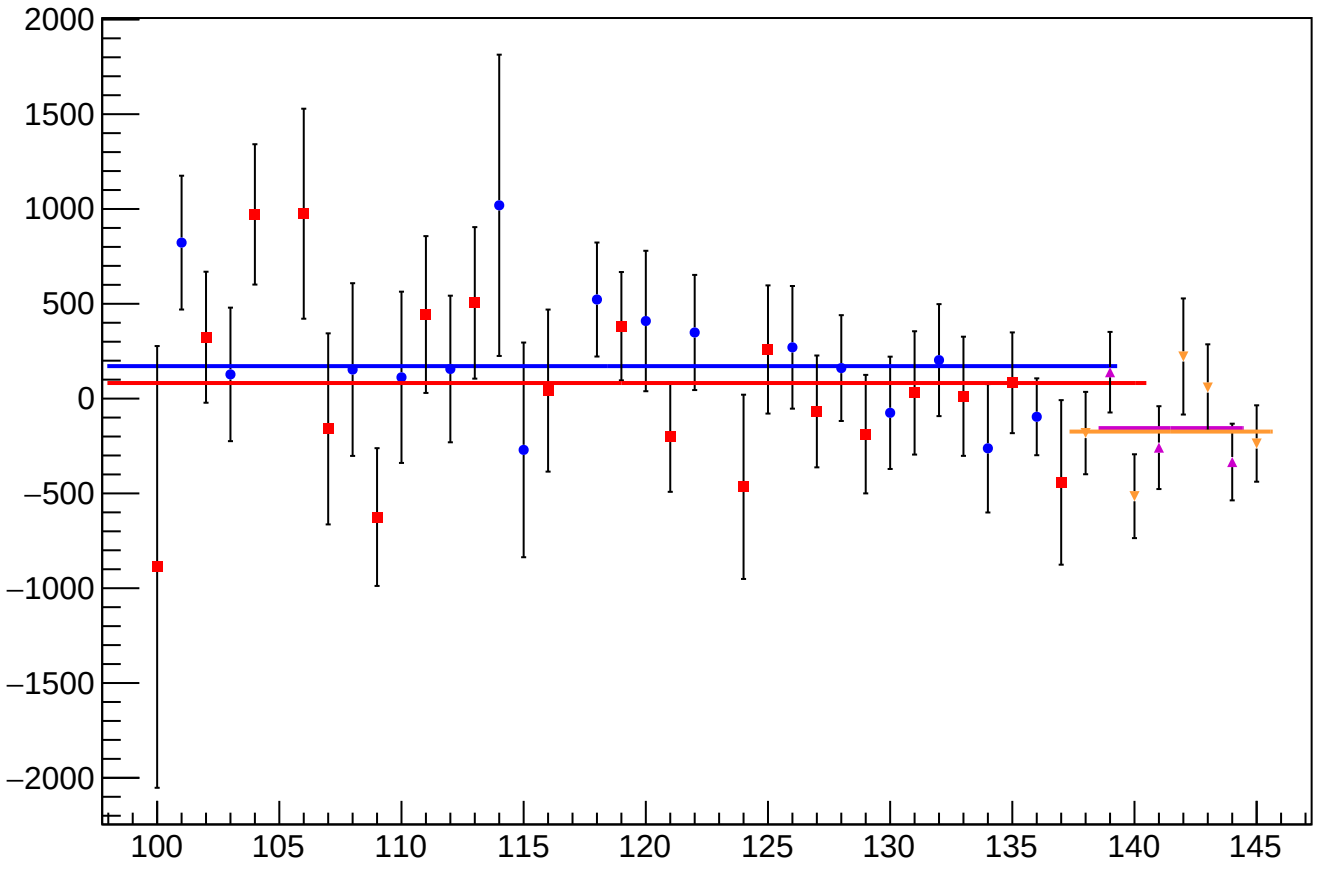
Left: 1436.452+/-0.406 $\chi^2$/NDF: 38154.7/7

Right: 2305.630+/-0.440 $\chi^2$/NDF: 1771614.3/34

In: 1870.841+/-0.442 $\chi^2$/NDF:1704798.6/18

Out: 1807.439+/-0.405 $\chi^2$/NDF:2201643.5/23

All: 1836.371+/-0.298 $\chi^2$/NDF: 3917643.5/42




Right In: 171.258+/-83.116 $\chi^2$/NDF: 11.5/15

Left Out: -173.931+/-101.971 $\chi^2$/NDF:5.2/4

Right Out: 82.152+/-82.545 $\chi^2$/NDF: 21.6/18

Left In: -155.660+/-121.656 $\chi^2$/NDF:2.9/2

Left: -166.392+/-78.149 $\chi^2$/NDF: 8.1/7

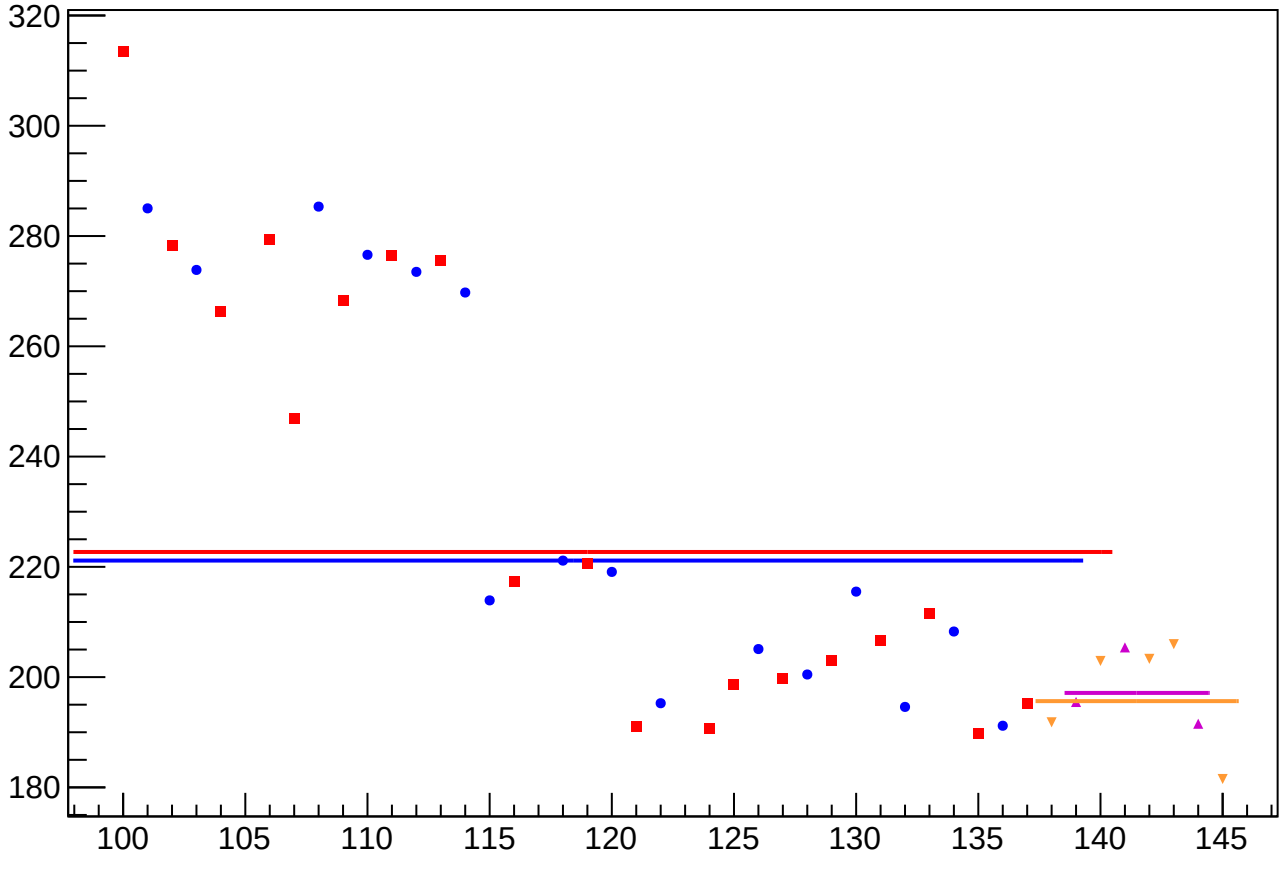
Right: 126.398+/-58.569 $\chi^2$/NDF: 33.7/34

In: 67.224+/-68.628 $\chi^2$/NDF:19.3/18

Out: -19.225+/-64.159 $\chi^2$/NDF:30.6/23

All: 21.093+/-46.868 $\chi^2$/NDF: 50.8/42

# dit_asym_sam_26_dd_rms vs Slug, Sign Corrected




Right In: 221.139+/-0.059 $\chi^2$/NDF: 318702.0/15

Left Out: 195.645+/-0.072 $\chi^2$/NDF:17981.4/4

Right Out: 222.697+/-0.058 $\chi^2$/NDF: 327032.3/18

Left In: 197.134+/-0.086 $\chi^2$/NDF:4504.3/2

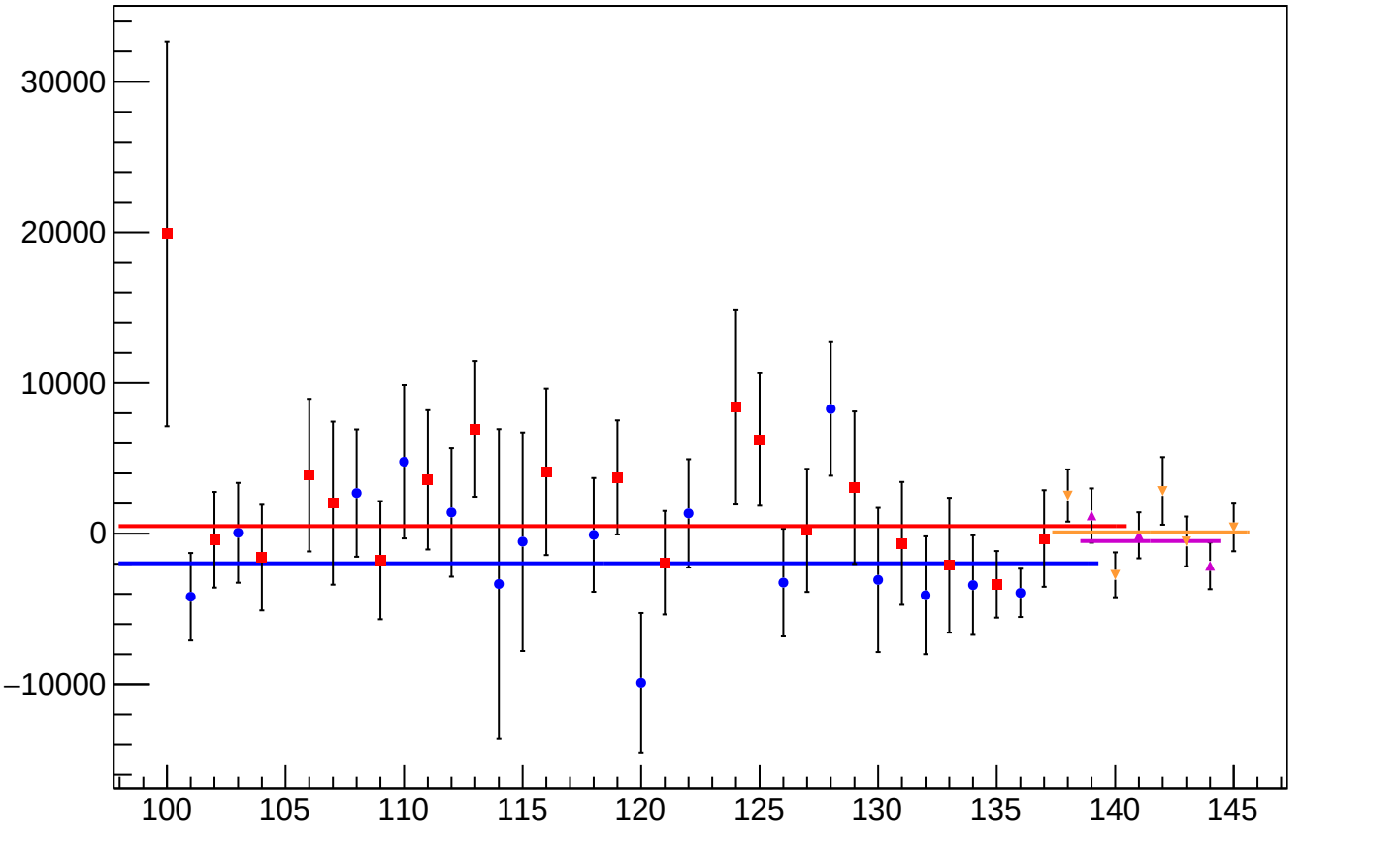
Left: 196.260+/-0.055 $\chi^2$/NDF: 22661.8/7

Right: 221.924+/-0.041 $\chi^2$/NDF: 646088.3/34

In: 213.500+/-0.049 $\chi^2$/NDF:376293.7/18

Out: 211.988+/-0.045 $\chi^2$/NDF:430053.1/23

All: 212.693+/-0.033 $\chi^2$/NDF: 806865.0/42




Right In: -1967.414+/-876.610 $\chi^2$/NDF: 16.2/15

Left Out: 84.236+/-756.092 $\chi^2$/NDF:7.2/4

Right Out: 497.281+/-914.759 $\chi^2$/NDF: 14.8/18

Left In: -489.460+/-930.491 $\chi^2$/NDF:2.1/2

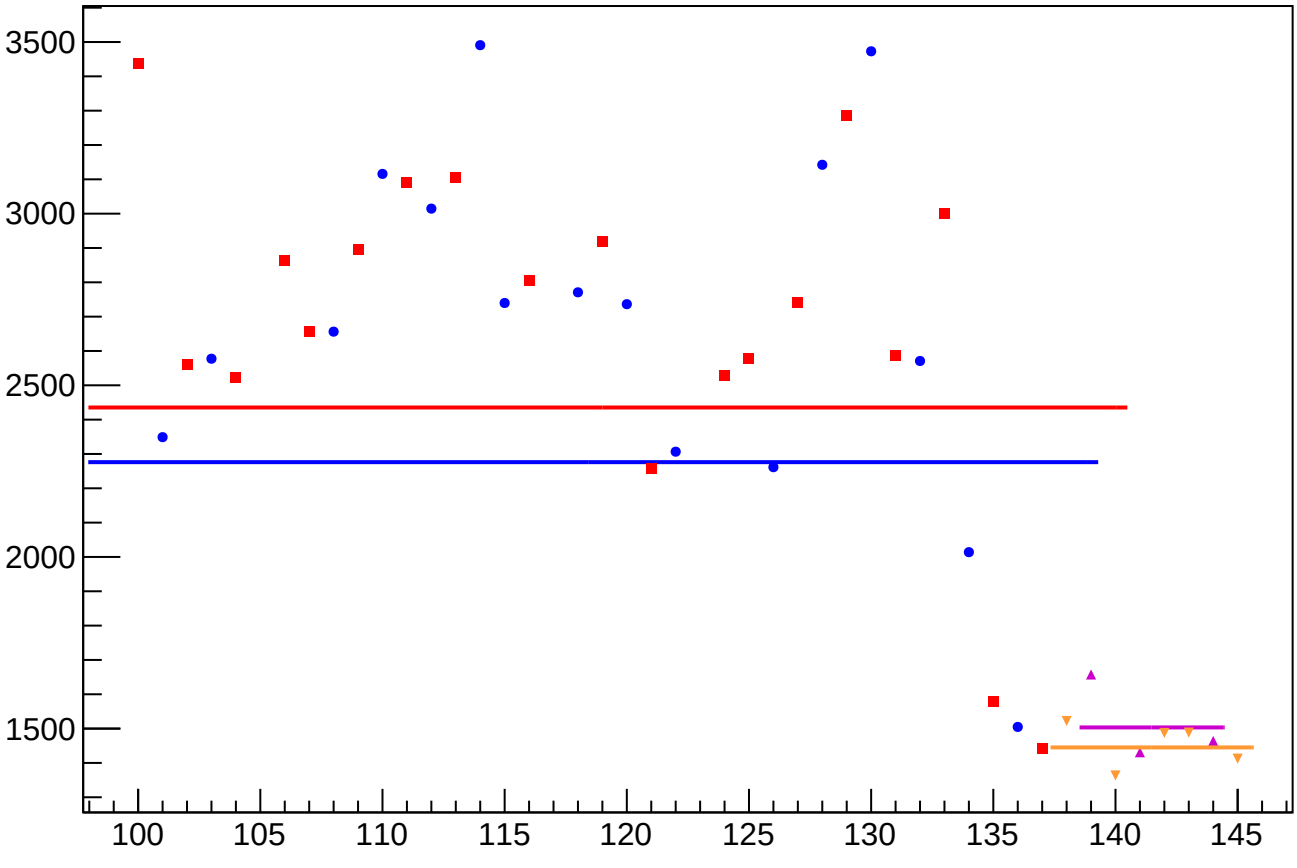
Left: -143.917+/-586.793 $\chi^2$/NDF: 9.5/7

Right: -787.531+/-632.914 $\chi^2$/NDF: 34.7/34

In: -1272.466+/-638.055 $\chi^2$/NDF:19.6/18

Out: 251.886+/-582.786 $\chi^2$/NDF:22.1/23

All: -441.422+/-430.307 $\chi^2$/NDF: 44.8/42




Right In: 2276.134+/-0.620 $\chi^2$/NDF: 926982.8/15

Left Out: 1445.136+/-0.535 $\chi^2$/NDF:12890.2/4

Right Out: 2435.354+/-0.647 $\chi^2$/NDF: 791515.5/18

Left In: 1503.393+/-0.658 $\chi^2$/NDF:20445.9/2

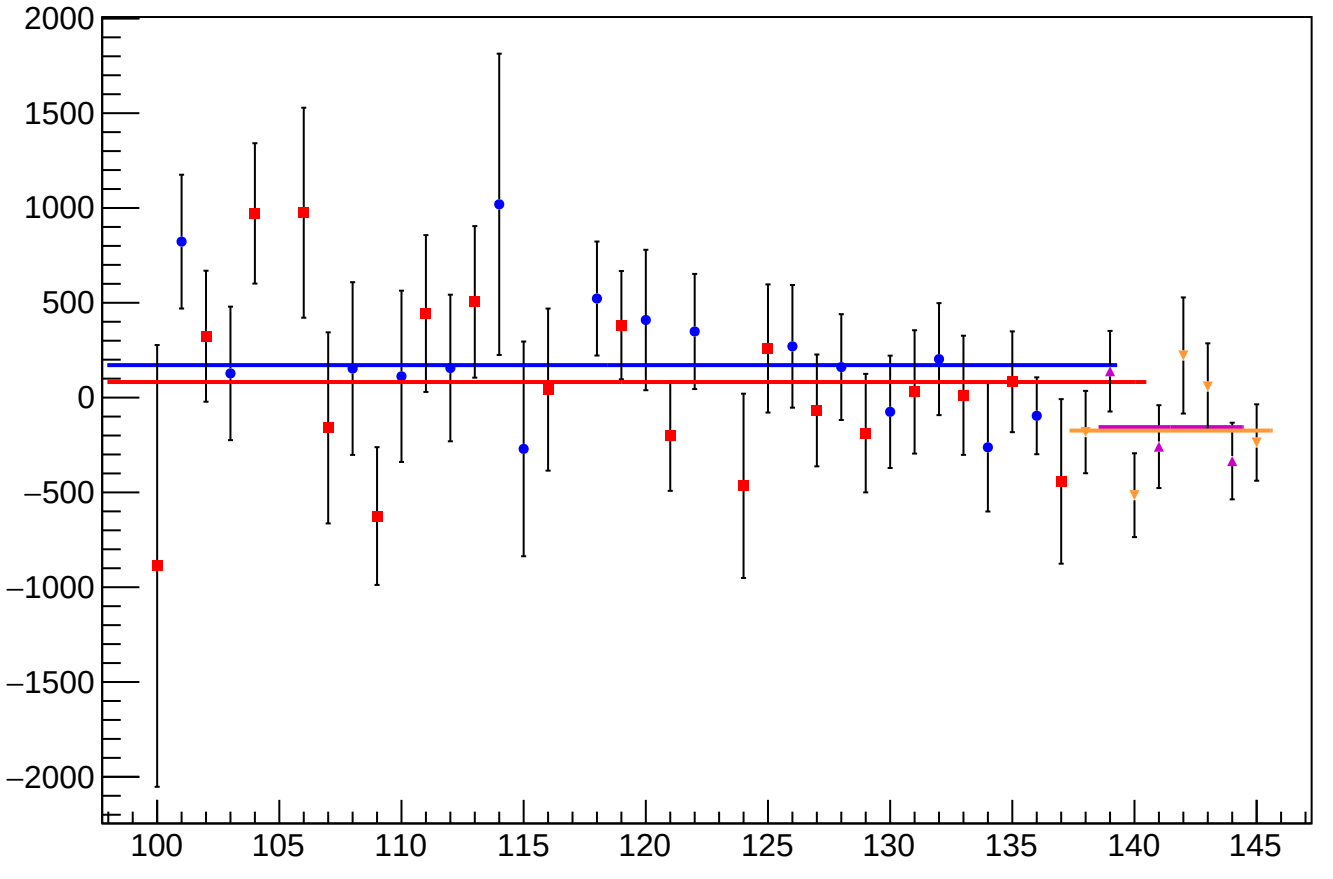
Left: 1468.304+/-0.415 $\chi^2$/NDF: 38058.1/7

Right: 2352.355+/-0.448 $\chi^2$/NDF: 1750083.9/34

In: 1912.784+/-0.451 $\chi^2$/NDF:1678192.9/18

Out: 1847.053+/-0.412 $\chi^2$/NDF:2196754.0/23

All: 1876.949+/-0.304 $\chi^2$/NDF: 3886518.5/42




Right In: 171.260+/-83.115 $\chi^2$/NDF: 11.5/15

Left Out: -173.938+/-101.971 $\chi^2$/NDF:5.2/4

Right Out: 82.150+/-82.545 $\chi^2$/NDF: 21.6/18

Left In: -155.660+/-121.656 $\chi^2$/NDF:2.9/2

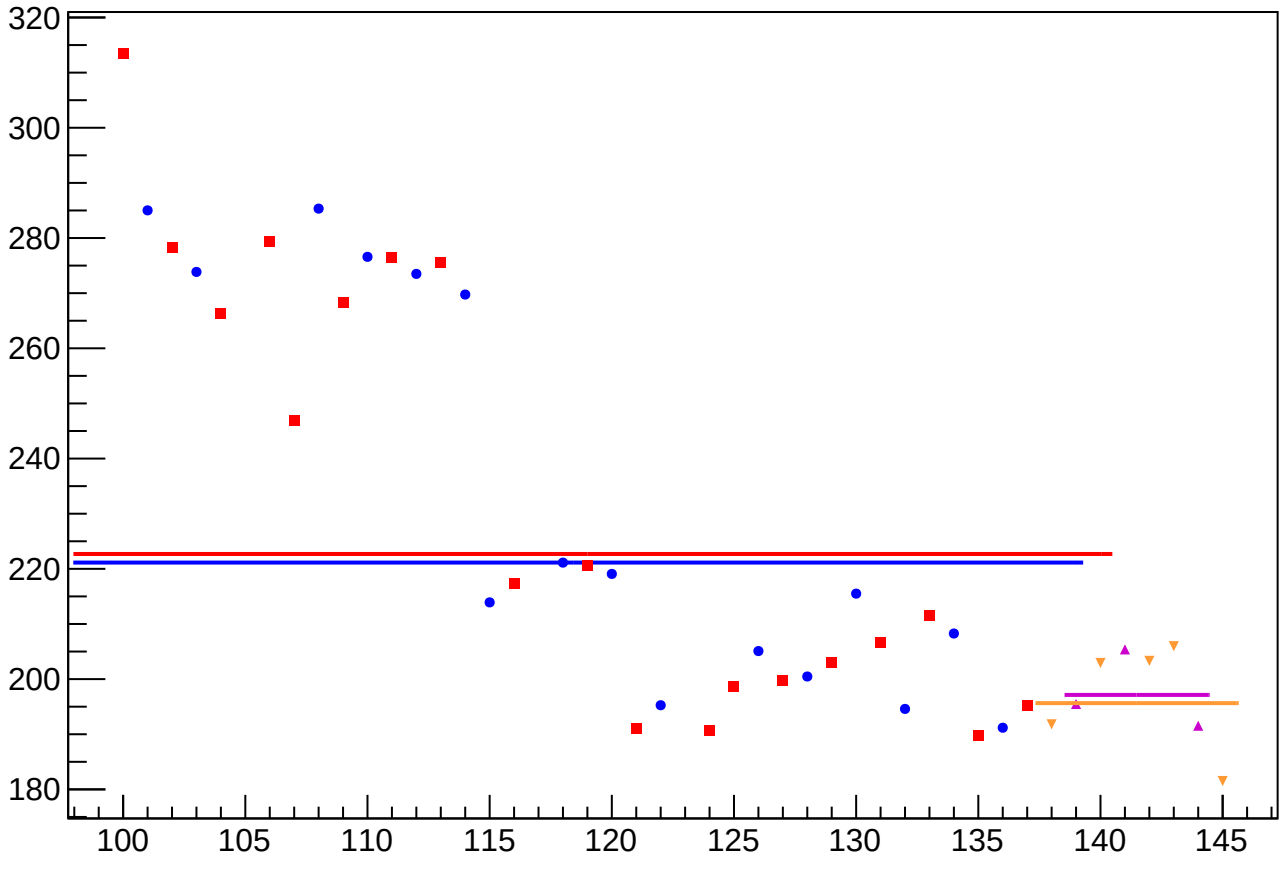
Left: -166.396+/-78.149 $\chi^2$/NDF: 8.1/7

Right: 126.398+/-58.569 $\chi^2$/NDF: 33.7/34

In: 67.225+/-68.628 $\chi^2$/NDF:19.3/18

Out: -19.229+/-64.158 $\chi^2$/NDF:30.6/23

All: 21.092+/-46.867 $\chi^2$/NDF: 50.8/42




Right In: 221.138+/-0.059 $\chi^2$/NDF: 318696.9/15

Left Out: 195.644+/-0.072 $\chi^2$/NDF:17982.5/4

Right Out: 222.696+/-0.058 $\chi^2$/NDF: 327025.2/18

Left In: 197.134+/-0.086 $\chi^2$/NDF:4504.4/2

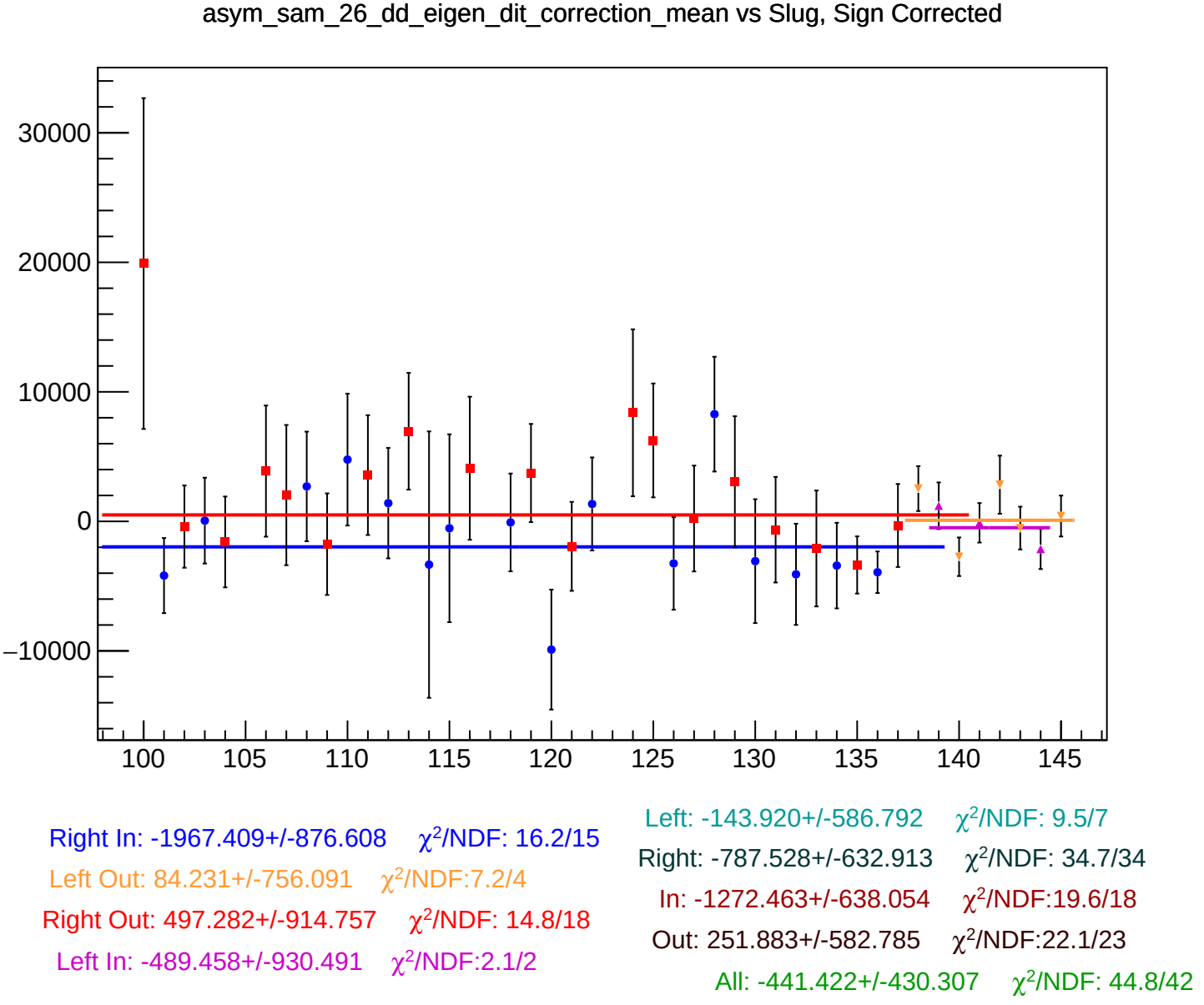
Left: 196.259+/-0.055 $\chi^2$/NDF: 22663.0/7

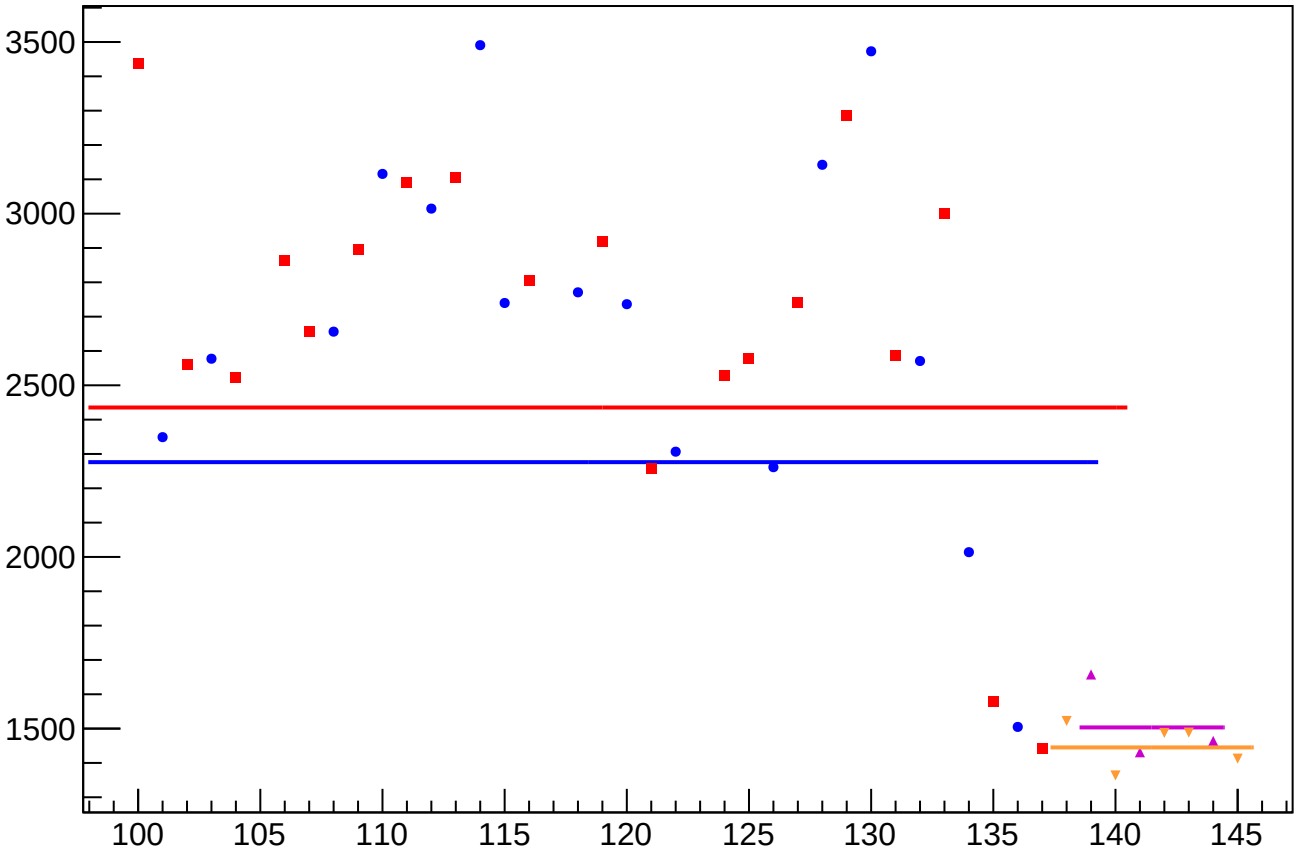
Right: 221.923+/-0.041 $\chi^2$/NDF: 646076.2/34

In: 213.499+/-0.049 $\chi^2$/NDF:376285.0/18

Out: 211.987+/-0.045 $\chi^2$/NDF:430044.1/23

All: 212.692+/-0.033 $\chi^2$/NDF: 806847.2/42


asym_sam_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
100
105
110
115
120
125
130
135
140
145
Right In: -1967.409+/-876.608 χ²/NDF: 16.2/15
Left Out: 84.231+/-756.091 χ²/NDF:7.2/4
Right Out: 497.282+/-914.757 χ²/NDF: 14.8/18
Left In: -489.458+/-930.491 χ²/NDF:2.1/2
Left: -143.920+/-586.792 χ²/NDF: 9.5/7
Right: -787.528+/-632.913 χ²/NDF: 34.7/34
In: -1272.463+/-638.054 χ²/NDF:19.6/18
Out: 251.883+/-582.785 χ²/NDF:22.1/23
All: -441.422+/-430.307 χ²/NDF: 44.8/42




Right In: 2276.132+/-0.620 $\chi^2$/NDF: 926973.2/15

Left Out: 1445.134+/-0.535 $\chi^2$/NDF:12890.3/4

Right Out: 2435.351+/-0.647 $\chi^2$/NDF: 791509.5/18

Left In: 1503.392+/-0.658 $\chi^2$/NDF:20445.3/2

Left: 1468.303+/-0.415 $\chi^2$/NDF: 38057.7/7

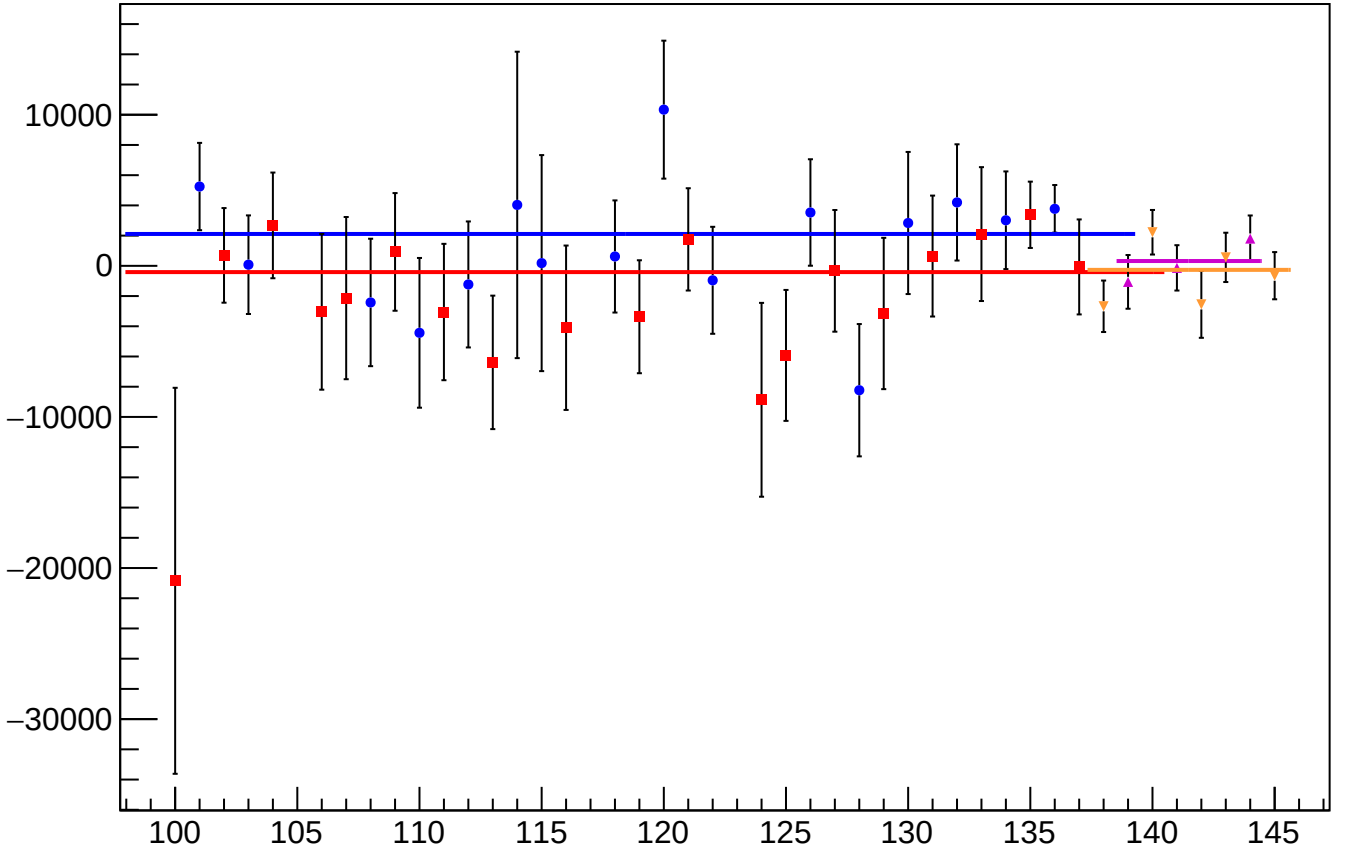
Right: 2352.352+/-0.448 $\chi^2$/NDF: 1750068.0/34

In: 1912.782+/-0.451 $\chi^2$/NDF:1678181.2/18

Out: 1847.051+/-0.412 $\chi^2$/NDF:2196746.4/23

All: 1876.947+/-0.304 $\chi^2$/NDF: 3886499.5/42

# asym_sam_26_dd_mean vs Slug, Sign Corrected




Right In: 2109.537+/-863.291 $\chi^2$/NDF: 16.6/15

Left Out: -266.800+/-746.574 $\chi^2$/NDF:6.2/4

Right Out: -414.095+/-904.414 $\chi^2$/NDF: 14.7/18

Left In: 318.165+/-916.980 $\chi^2$/NDF:1.6/2

Left: -33.616+/-578.954 $\chi^2$/NDF: 8.1/7

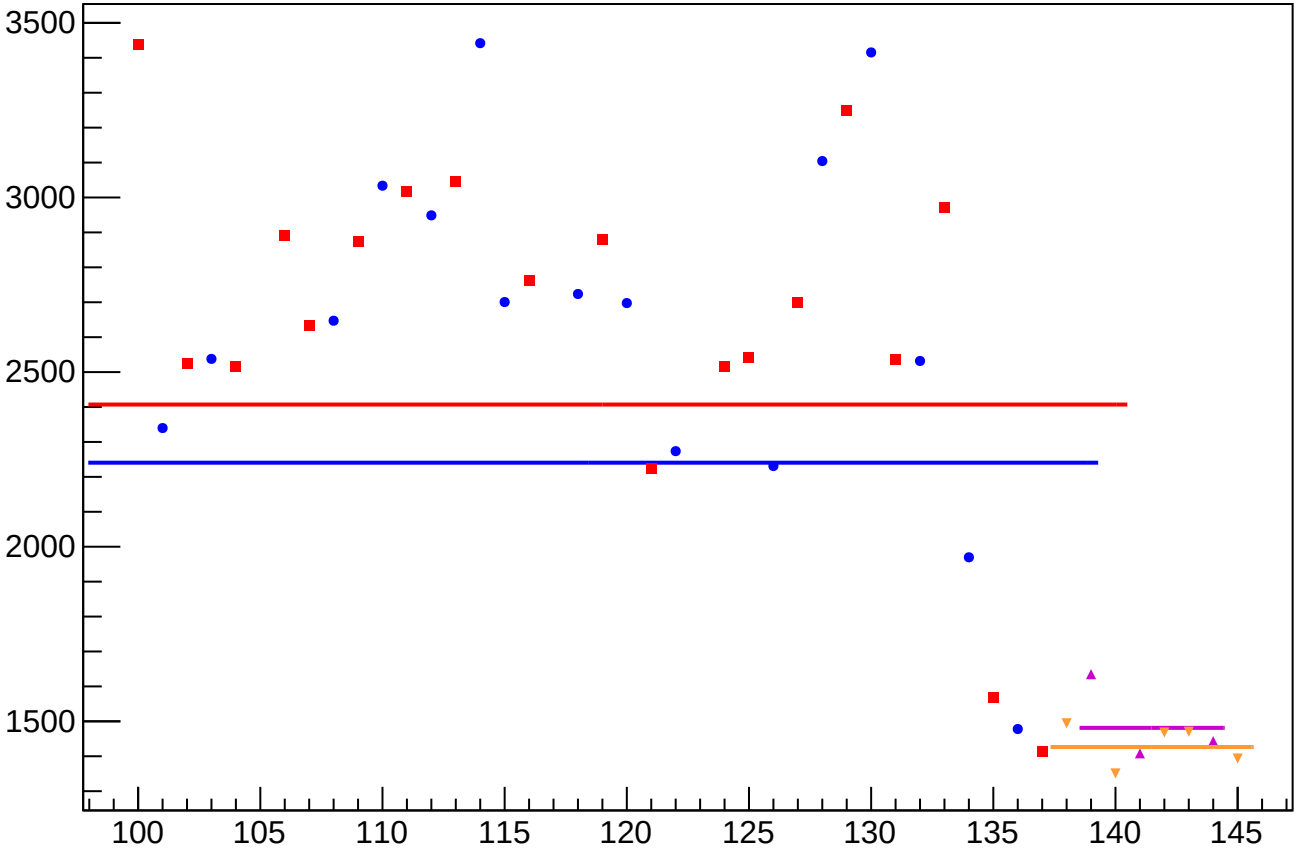
Right: 906.398+/-624.471 $\chi^2$/NDF: 35.4/34

In: 1267.825+/-628.562 $\chi^2$/NDF:20.3/18

Out: -326.493+/-575.752 $\chi^2$/NDF:20.9/23

All: 400.888+/-424.563 $\chi^2$/NDF: 44.7/42

# asym_sam_26_dd_rms vs Slug, Sign Corrected




Right In: 2240.626+/-0.610 $\chi^2$/NDF: 933590.8/15

Left Out: 1426.472+/-0.528 $\chi^2$/NDF:11485.0/4

Right Out: 2407.124+/-0.640 $\chi^2$/NDF: 788976.1/18

Left In: 1481.321+/-0.648 $\chi^2$/NDF:20932.8/2

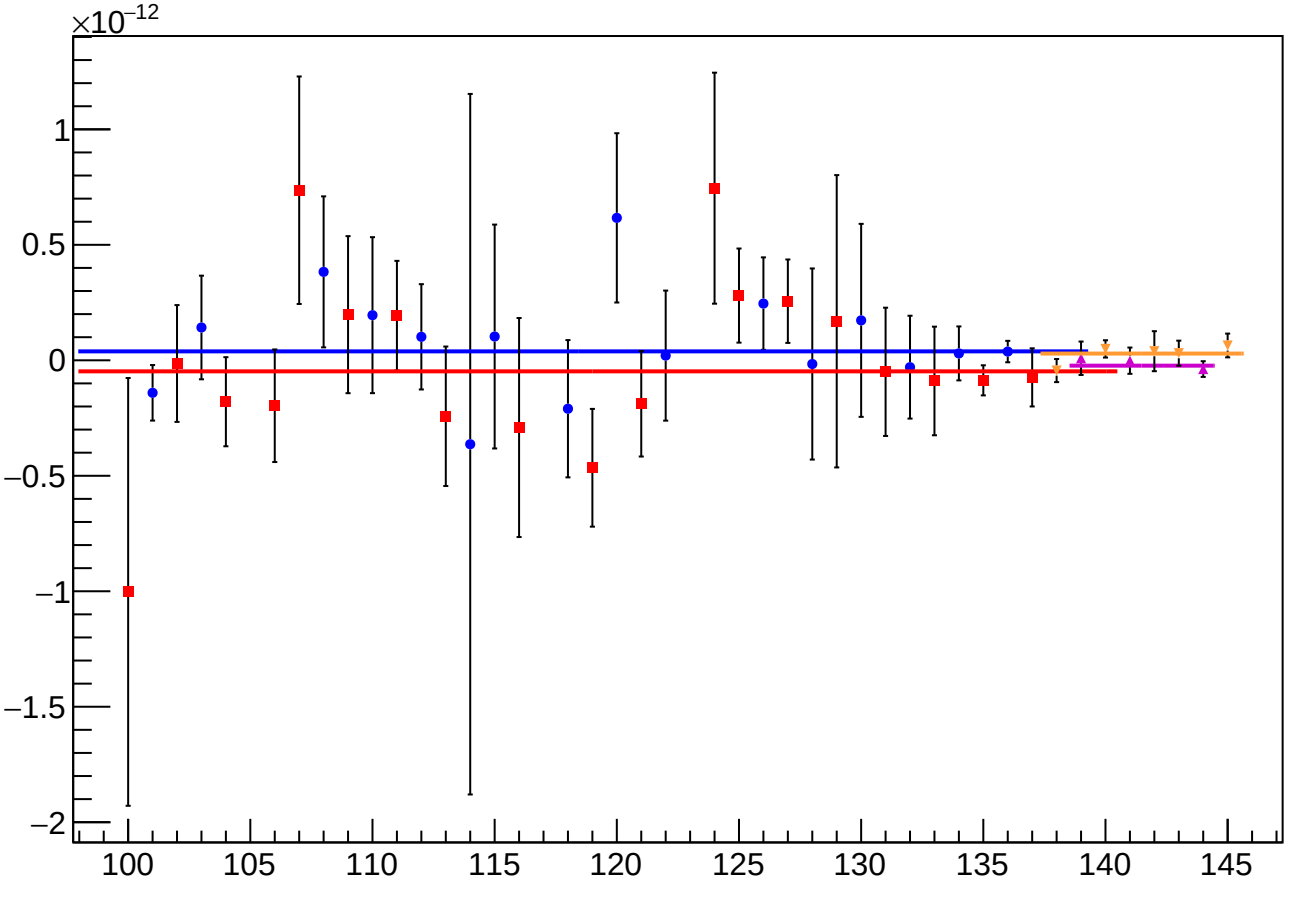
Left: 1448.336+/-0.409 $\chi^2$/NDF: 36721.1/7

Right: 2320.004+/-0.442 $\chi^2$/NDF: 1758033.9/34

In: 1883.852+/-0.444 $\chi^2$/NDF:1681509.0/18

Out: 1823.894+/-0.407 $\chi^2$/NDF:2198924.0/23

All: 1851.248+/-0.300 $\chi^2$/NDF: 3890328.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.9/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.5/2

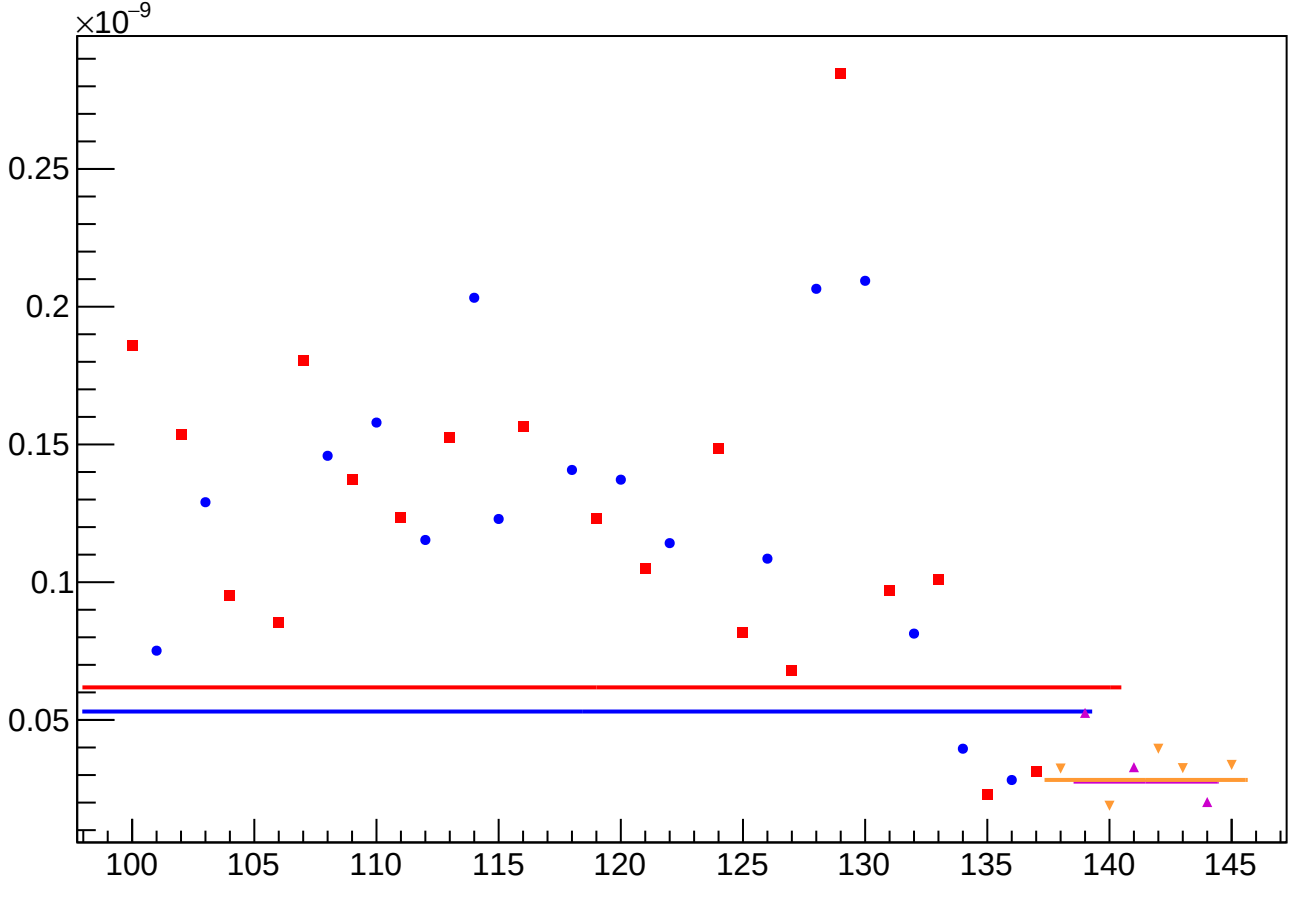
Left: 0.000+/-0.000 $\chi^2$/NDF: 5.7/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:10.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:23.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 34.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2576481.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:207645.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2416437.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:349765.3/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 558019.9/7

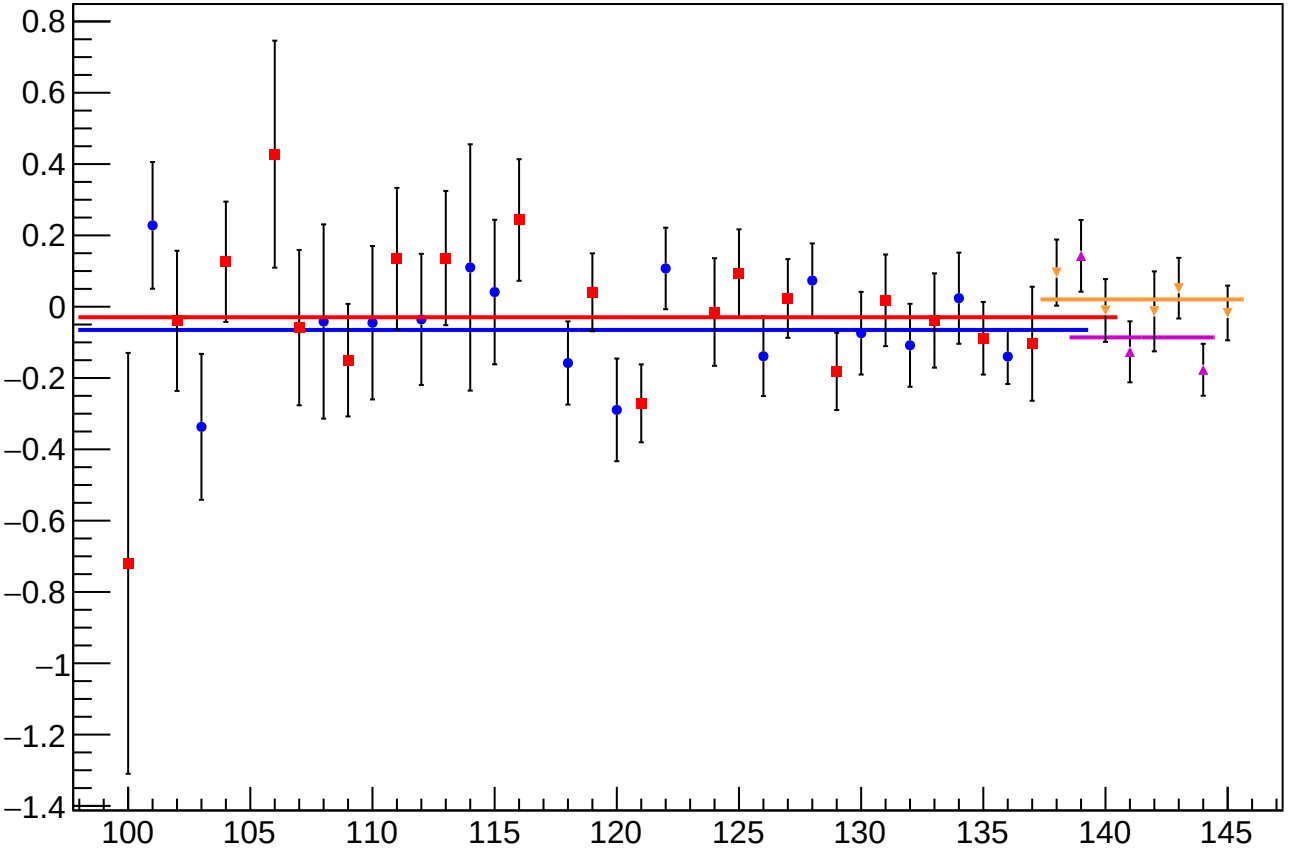
Right: 0.000+/-0.000 $\chi^2$/NDF: 5040906.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:3556494.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3568979.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7129327.8/42

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: 0.020+/-0.040 $\chi^2$/NDF:1.3/4

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: -0.086+/-0.049 $\chi^2$/NDF:7.0/2

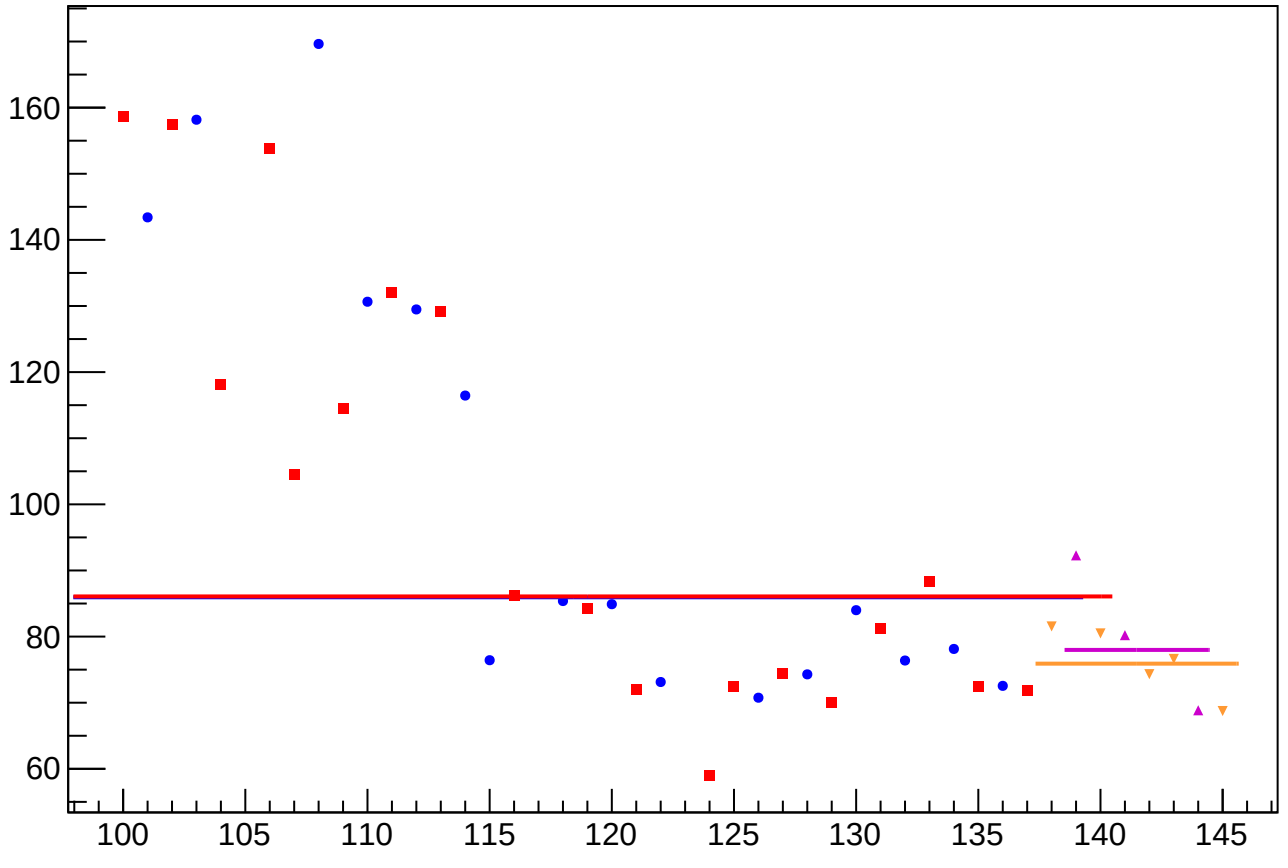
Left: -0.022+/-0.031 $\chi^2$/NDF: 11.1/7

Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.072+/-0.027 $\chi^2$/NDF:21.3/18

Out: -0.009+/-0.025 $\chi^2$/NDF:20.3/23

All: -0.038+/-0.019 $\chi^2$/NDF: 44.3/42




Right In: 85.946+/-0.024 $\chi^2$/NDF: 1035004.5/15

Left Out: 75.906+/-0.028 $\chi^2$/NDF:30801.1/4

Right Out: 86.073+/-0.023 $\chi^2$/NDF: 991371.4/18

Left In: 77.984+/-0.034 $\chi^2$/NDF:73318.6/2

Left: 76.740+/-0.022 $\chi^2$/NDF: 106314.1/7

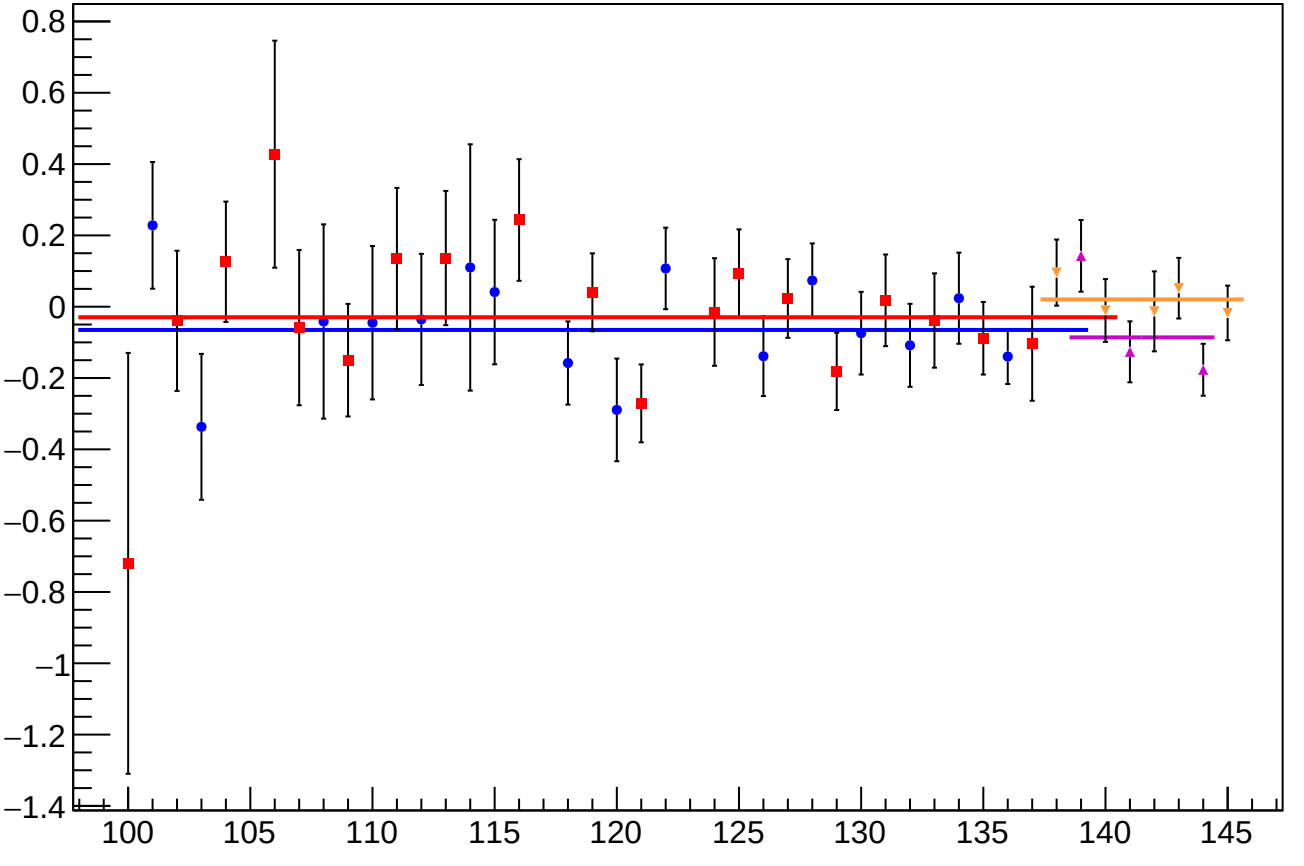
Right: 86.010+/-0.017 $\chi^2$/NDF: 2026390.6/34

In: 83.397+/-0.019 $\chi^2$/NDF:1144896.6/18

Out: 81.928+/-0.018 $\chi^2$/NDF:1099730.9/23

All: 82.605+/-0.013 $\chi^2$/NDF: 2247715.1/42

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.020+/-0.040 $\chi^2$/NDF:1.3/4

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: -0.086+/-0.049 $\chi^2$/NDF:7.0/2

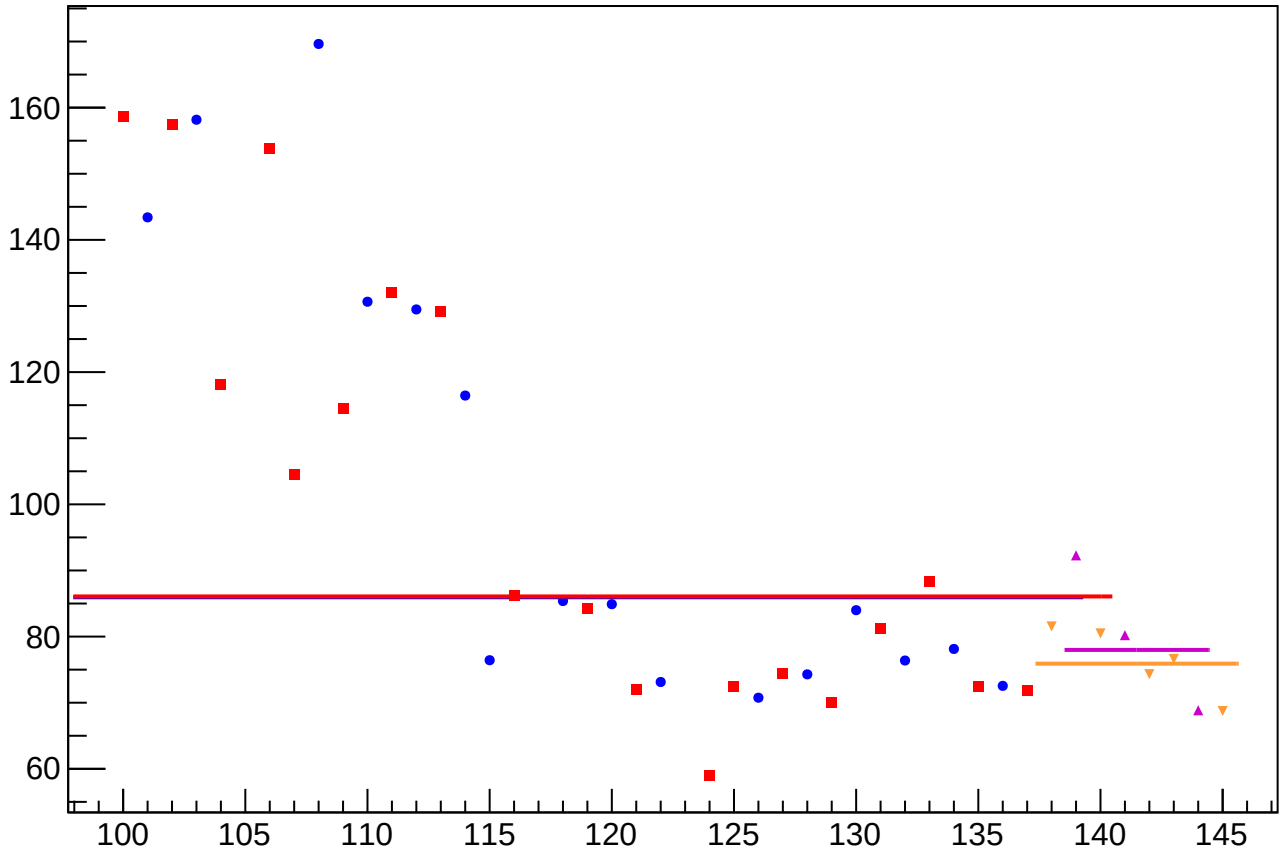
Left: -0.022+/-0.031 $\chi^2$/NDF: 11.1/7

Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.072+/-0.027 $\chi^2$/NDF:21.3/18

Out: -0.009+/-0.025 $\chi^2$/NDF:20.3/23

All: -0.038+/-0.019 $\chi^2$/NDF: 44.3/42




Right In: 85.946+/-0.024 $\chi^2$/NDF: 1035004.5/15

Left Out: 75.906+/-0.028 $\chi^2$/NDF:30801.1/4

Right Out: 86.073+/-0.023 $\chi^2$/NDF: 991371.4/18

Left In: 77.984+/-0.034 $\chi^2$/NDF:73318.6/2

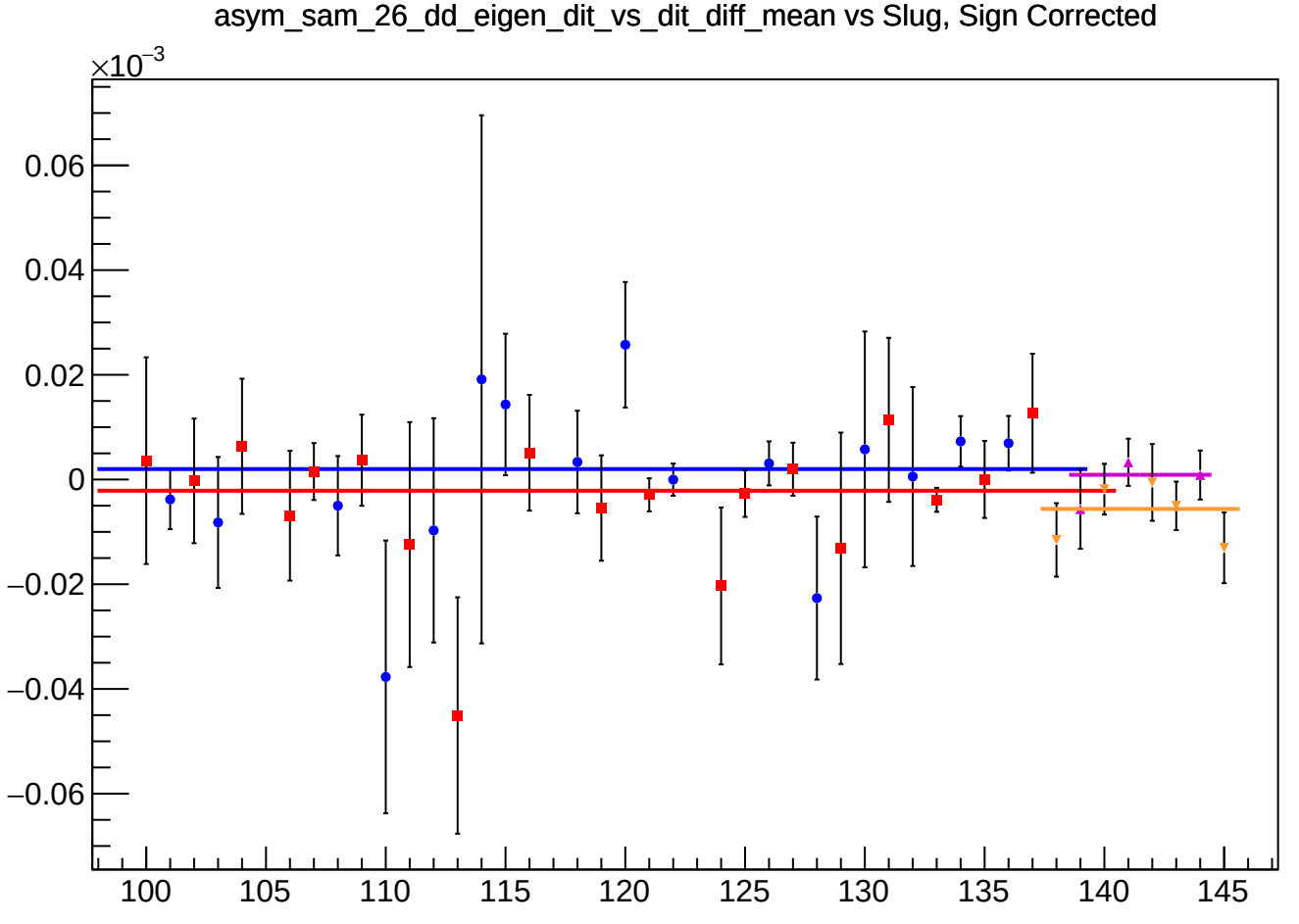
Left: 76.740+/-0.022 $\chi^2$/NDF: 106314.1/7

Right: 86.010+/-0.017 $\chi^2$/NDF: 2026390.6/34

In: 83.397+/-0.019 $\chi^2$/NDF:1144896.6/18

Out: 81.928+/-0.018 $\chi^2$/NDF:1099730.9/23

All: 82.605+/-0.013 $\chi^2$/NDF: 2247715.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.0/2

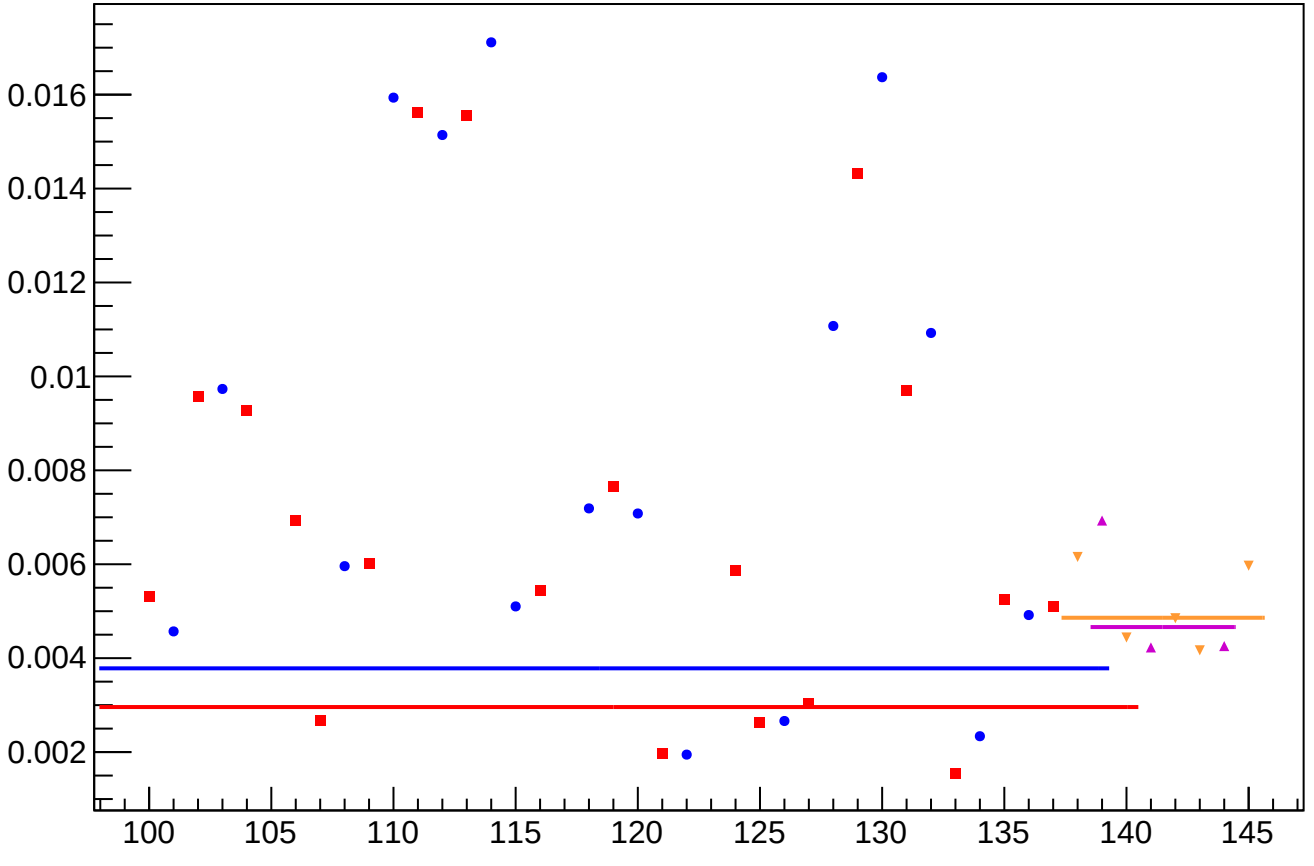
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 29.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:15.9/23

All: -0.000+/-0.000 $\chi^2$/NDF: 37.7/42




Right In: 0.004+/-0.000 $\chi^2$/NDF: 4694299.9/15

Left Out: 0.005+/-0.000 $\chi^2$/NDF:181950.6/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 5548113.4/18

Left In: 0.005+/-0.000 $\chi^2$/NDF:214184.0/2

Left: 0.005+/-0.000 $\chi^2$/NDF: 401179.2/7

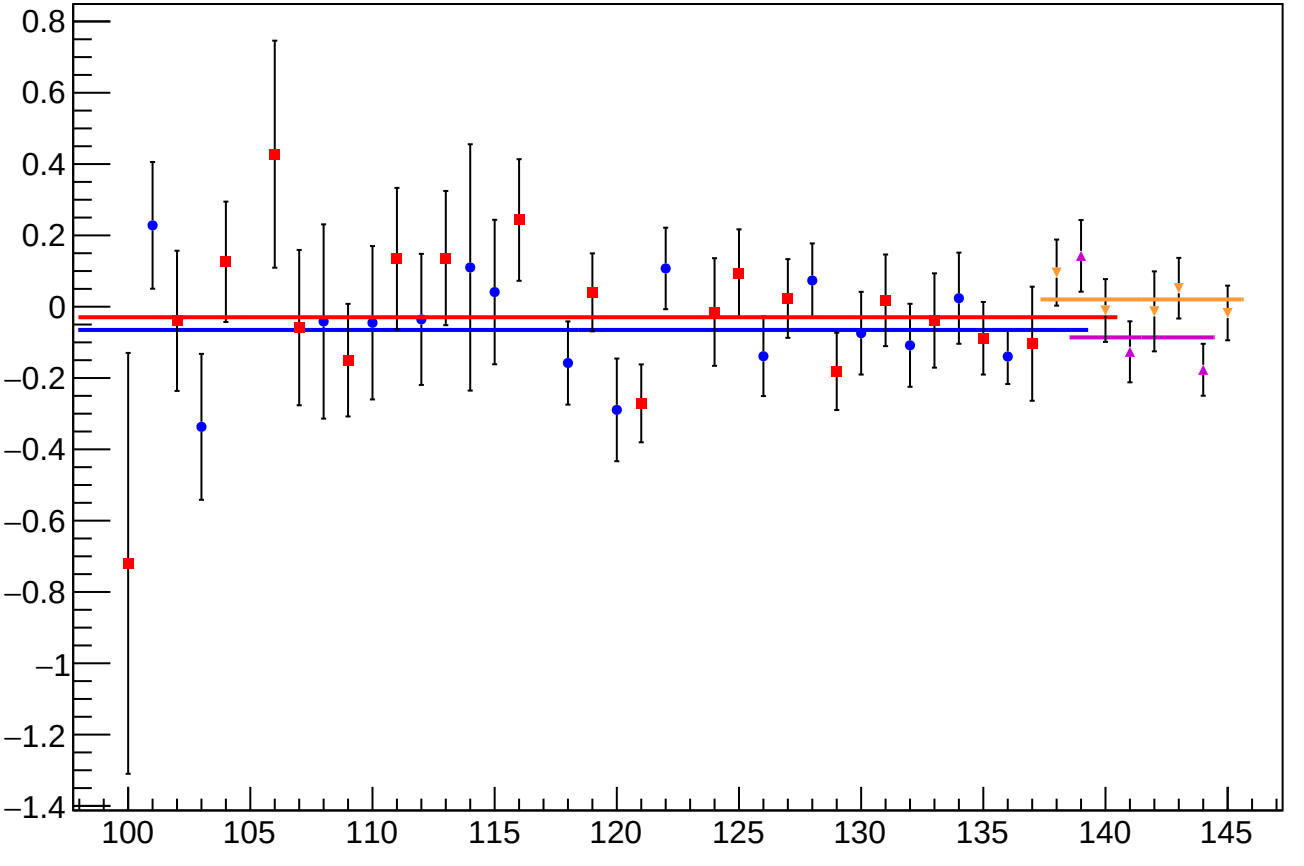
Right: 0.003+/-0.000 $\chi^2$/NDF: 10513157.6/34

In: 0.004+/-0.000 $\chi^2$/NDF:5037887.4/18

Out: 0.003+/-0.000 $\chi^2$/NDF:6568187.8/23

All: 0.004+/-0.000 $\chi^2$/NDF: 11805916.1/42

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.065+/-0.033 $\chi^2$/NDF: 14.2/15

Left Out: 0.020+/-0.040 $\chi^2$/NDF:1.3/4

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: -0.086+/-0.049 $\chi^2$/NDF:7.0/2

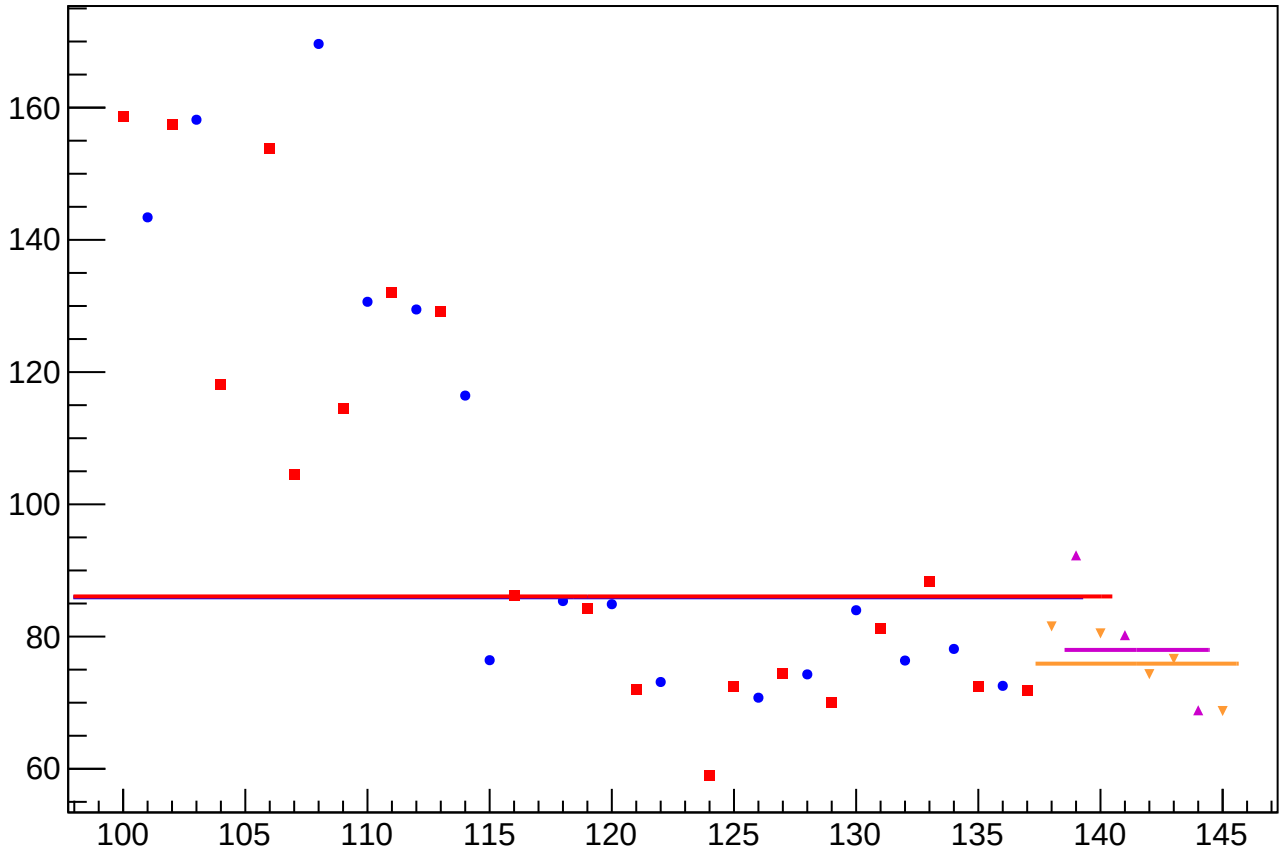
Left: -0.022+/-0.031 $\chi^2$/NDF: 11.1/7

Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.072+/-0.027 $\chi^2$/NDF:21.3/18

Out: -0.009+/-0.025 $\chi^2$/NDF:20.3/23

All: -0.038+/-0.019 $\chi^2$/NDF: 44.3/42




Right In: 85.943+/-0.024 $\chi^2$/NDF: 1034986.7/15

Left Out: 75.905+/-0.028 $\chi^2$/NDF:30808.8/4

Right Out: 86.070+/-0.023 $\chi^2$/NDF: 991365.2/18

Left In: 77.983+/-0.034 $\chi^2$/NDF:73316.3/2

Left: 76.739+/-0.022 $\chi^2$/NDF: 106320.5/7

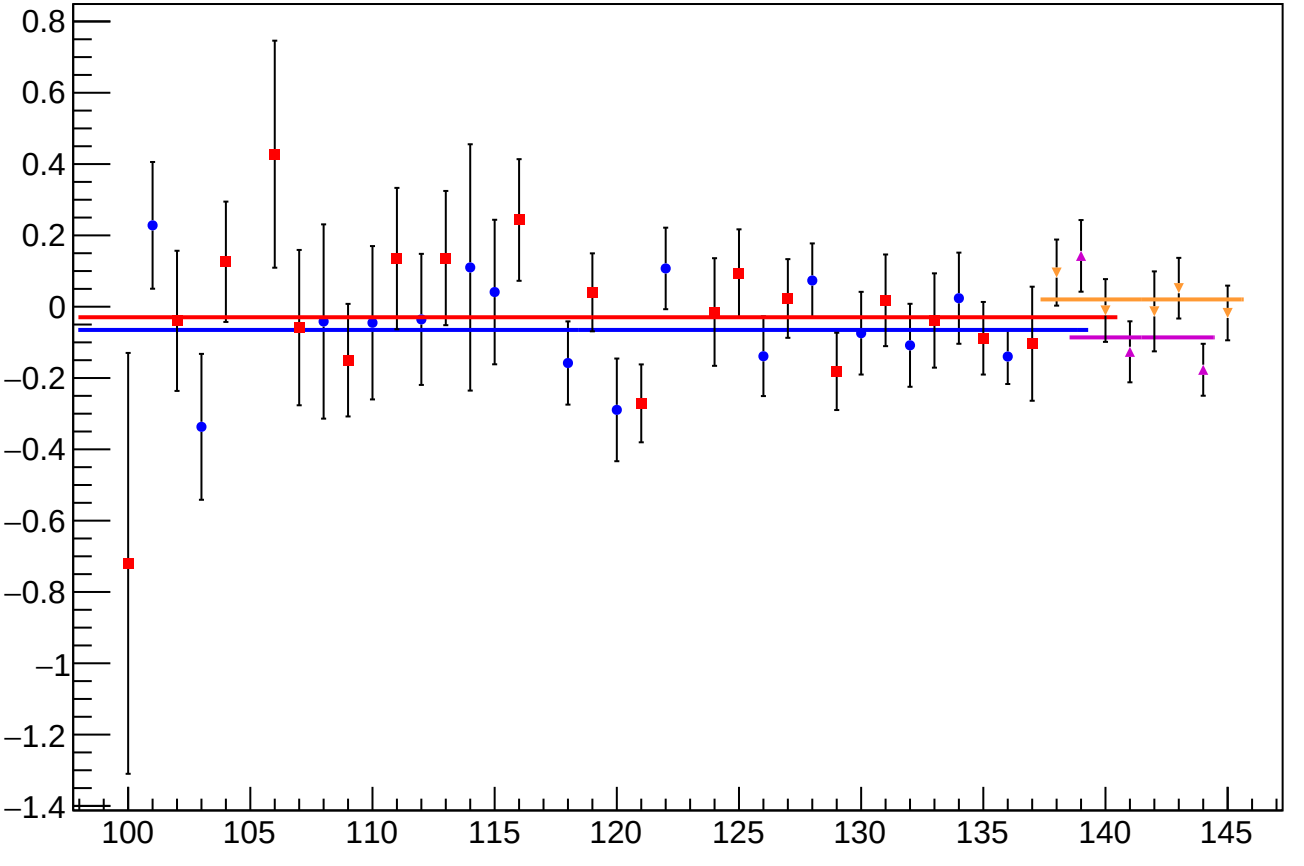
Right: 86.007+/-0.017 $\chi^2$/NDF: 2026366.7/34

In: 83.396+/-0.019 $\chi^2$/NDF:1144859.7/18

Out: 81.927+/-0.018 $\chi^2$/NDF:1099717.5/23

All: 82.603+/-0.013 $\chi^2$/NDF: 2247664.0/42

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: 0.020+/-0.040 $\chi^2$/NDF:1.3/4

Right Out: -0.030+/-0.033 $\chi^2$/NDF: 18.1/18

Left In: -0.086+/-0.049 $\chi^2$/NDF:7.0/2

Left: -0.022+/-0.031 $\chi^2$/NDF: 11.1/7

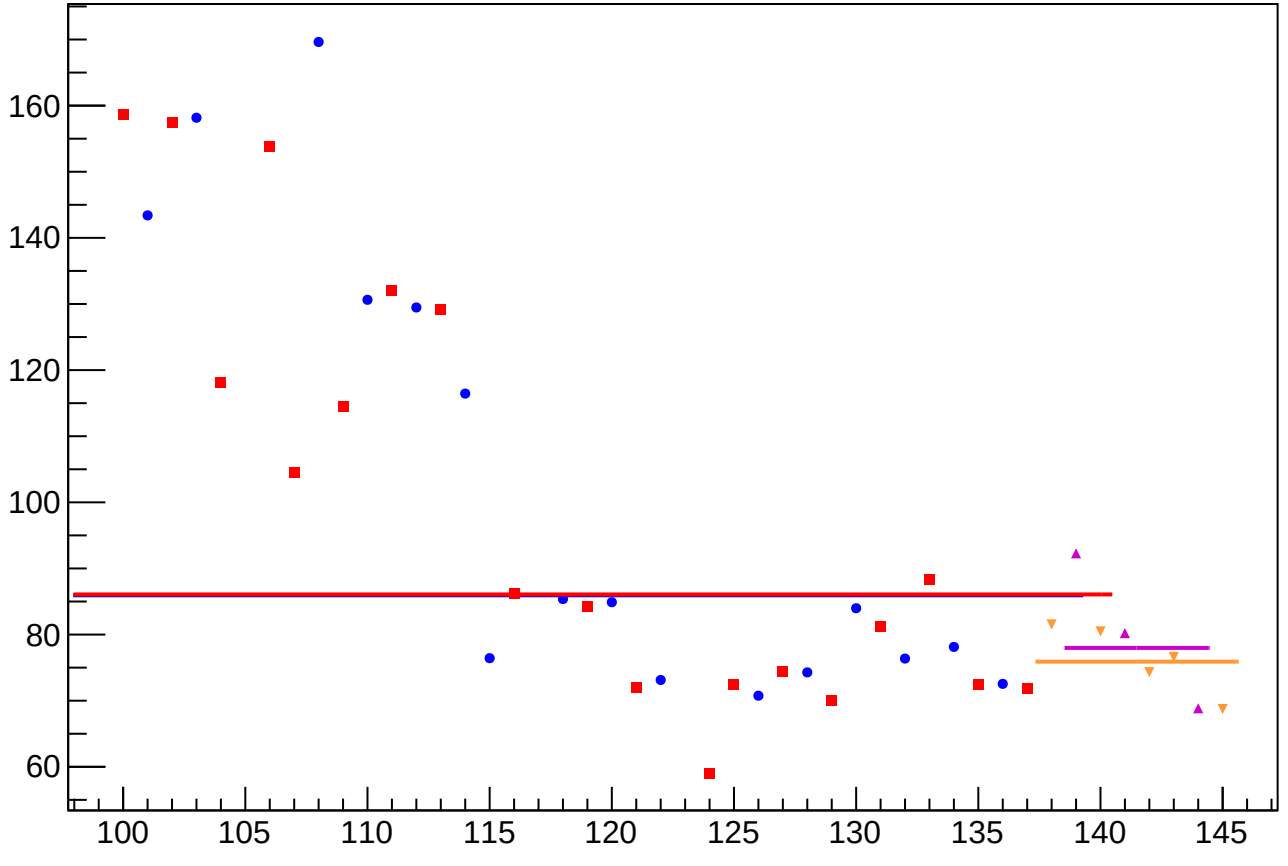
Right: -0.047+/-0.023 $\chi^2$/NDF: 32.8/34

In: -0.072+/-0.027 $\chi^2$/NDF:21.3/18

Out: -0.009+/-0.025 $\chi^2$/NDF:20.3/23

All: -0.038+/-0.019 $\chi^2$/NDF: 44.3/42

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: 75.905+/-0.028 $\chi^2$/NDF:30808.8/4

Right Out: 86.070+/-0.023 $\chi^2$/NDF: 991365.2/18

Left In: 77.983+/-0.034 $\chi^2$/NDF:73316.3/2

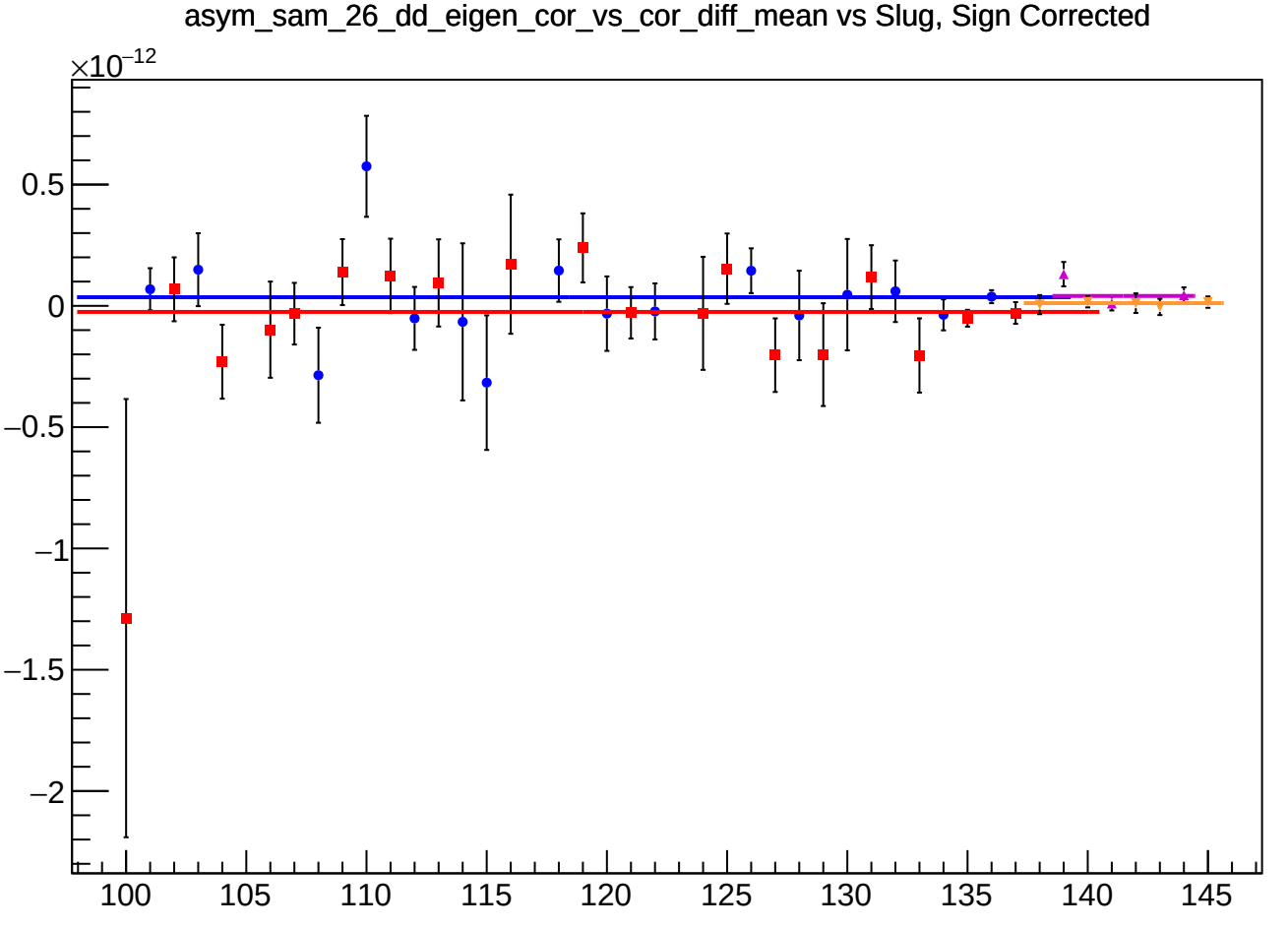
Left: 76.739+/-0.022 $\chi^2$/NDF: 106320.5/7

Right: 86.007+/-0.017 $\chi^2$/NDF: 2026366.7/34

In: 83.396+/-0.019 $\chi^2$/NDF:1144859.7/18

Out: 81.927+/-0.018 $\chi^2$/NDF:1099717.5/23

All: 82.603+/-0.013 $\chi^2$/NDF: 2247664.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.3/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:4.4/2

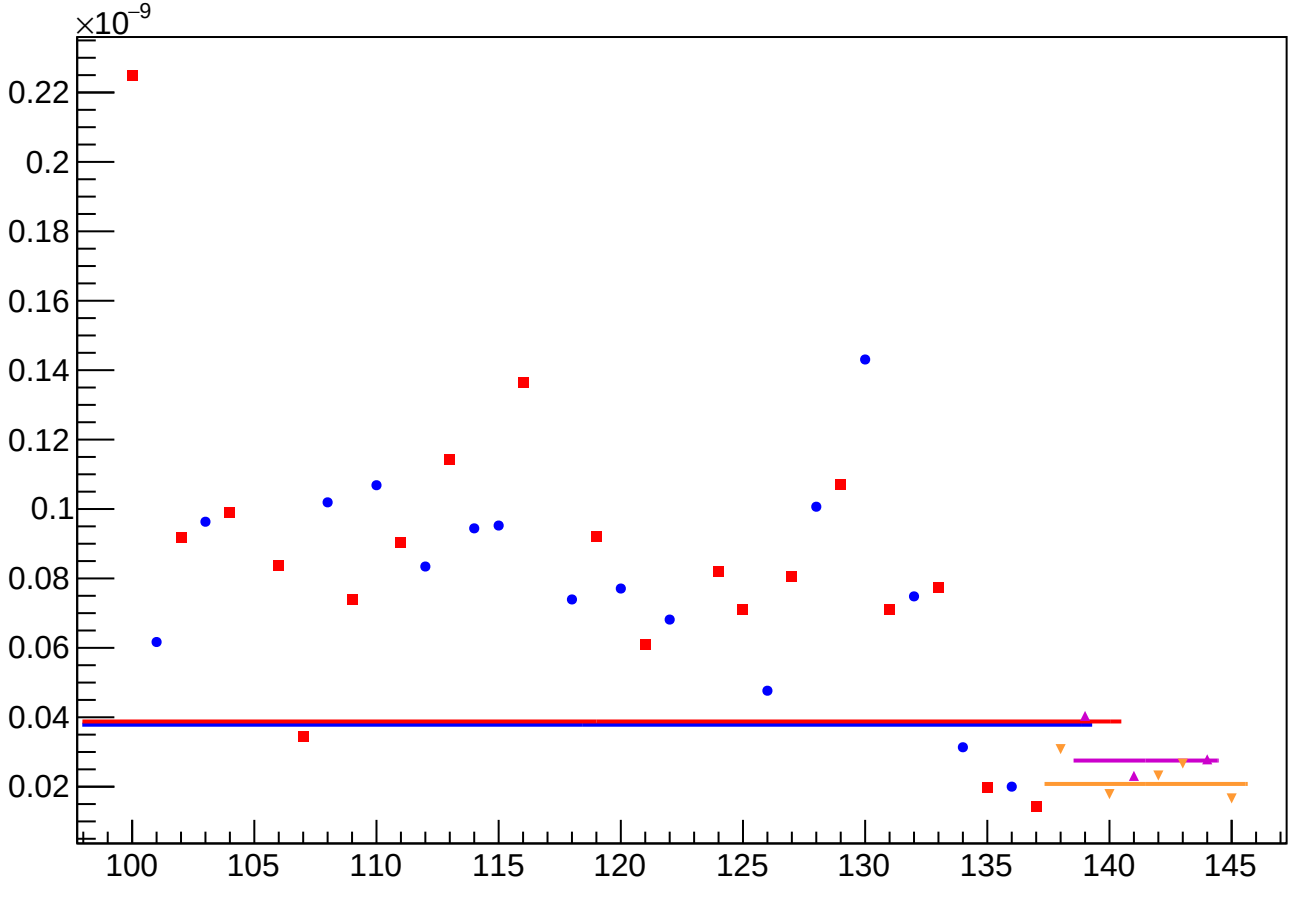
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.2/34

In: 0.000+/-0.000 $\chi^2$/NDF:20.8/18

Out: 0.000+/-0.000 $\chi^2$/NDF:20.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 45.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3456922.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:294094.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4121603.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:178909.8/2

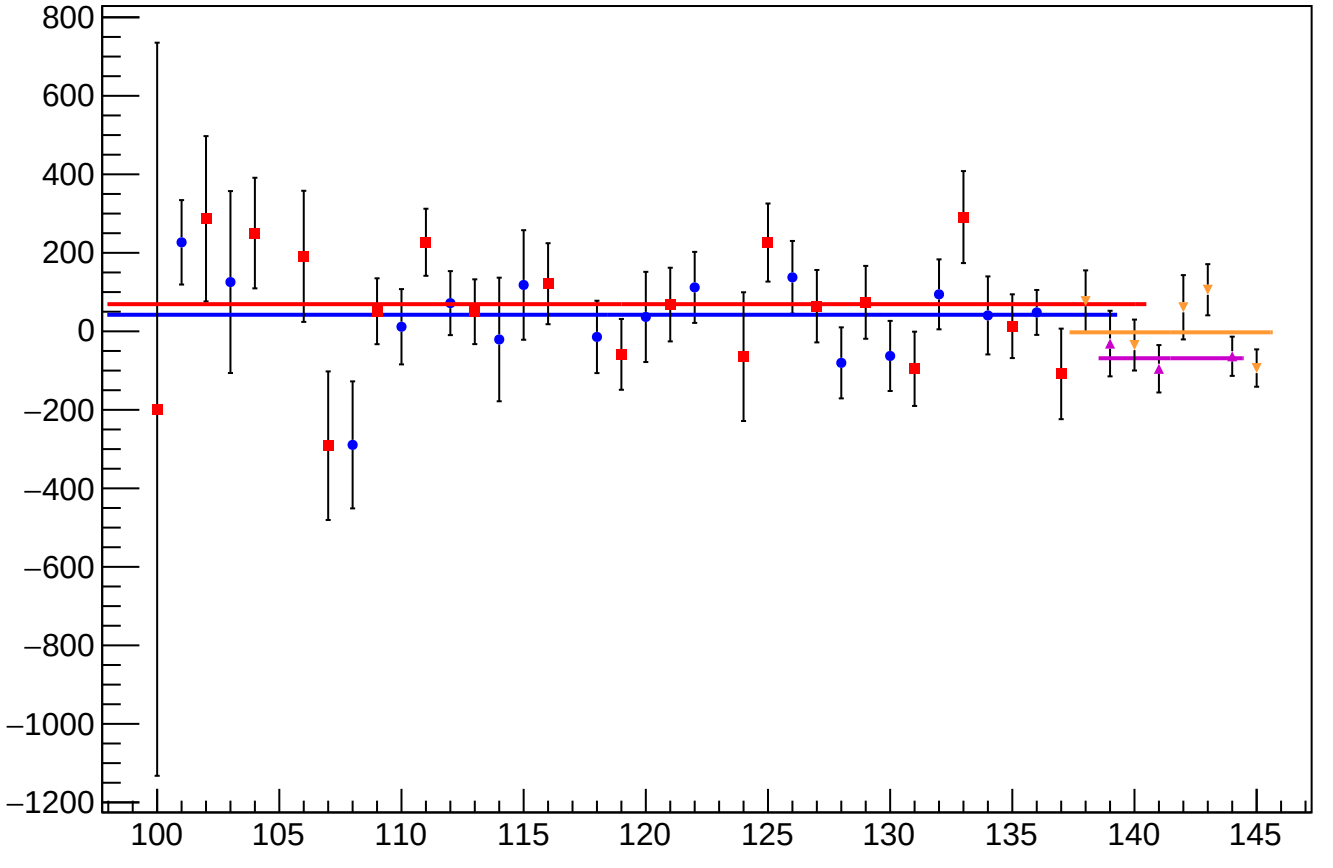
Left: 0.000+/-0.000 $\chi^2$/NDF: 635209.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 7580417.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:3897253.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5393718.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9592225.2/42




Right In: 42.220+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: -2.503+/-28.560 $\chi^2$/NDF:8.3/4

Right Out: 69.249+/-24.418 $\chi^2$/NDF: 25.4/18

Left In: -68.529+/-34.952 $\chi^2$/NDF:0.4/2

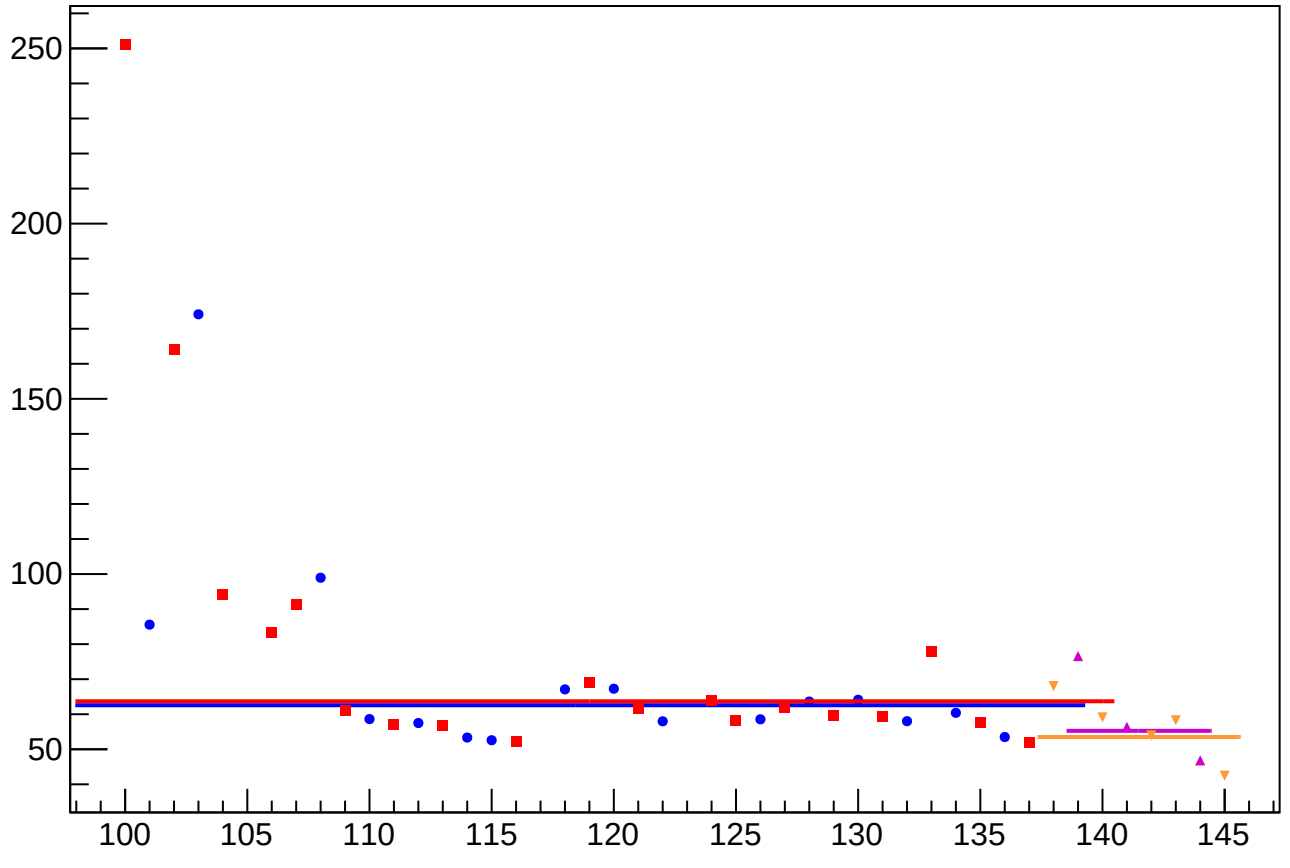
Left: -28.937+/-22.116 $\chi^2$/NDF: 10.9/7

Right: 55.617+/-17.191 $\chi^2$/NDF: 39.5/34

In: 6.319+/-19.900 $\chi^2$/NDF:20.7/18

Out: 38.948+/-18.560 $\chi^2$/NDF:37.3/23

All: 23.770+/-13.573 $\chi^2$/NDF: 59.5/42




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758603.5/15

Left Out: 53.501+/-0.020 $\chi^2$/NDF:201634.2/4

Right Out: 63.699+/-0.017 $\chi^2$/NDF: 834180.2/18

Left In: 55.261+/-0.025 $\chi^2$/NDF:188222.3/2

Left: 54.206+/-0.016 $\chi^2$/NDF: 392898.7/7

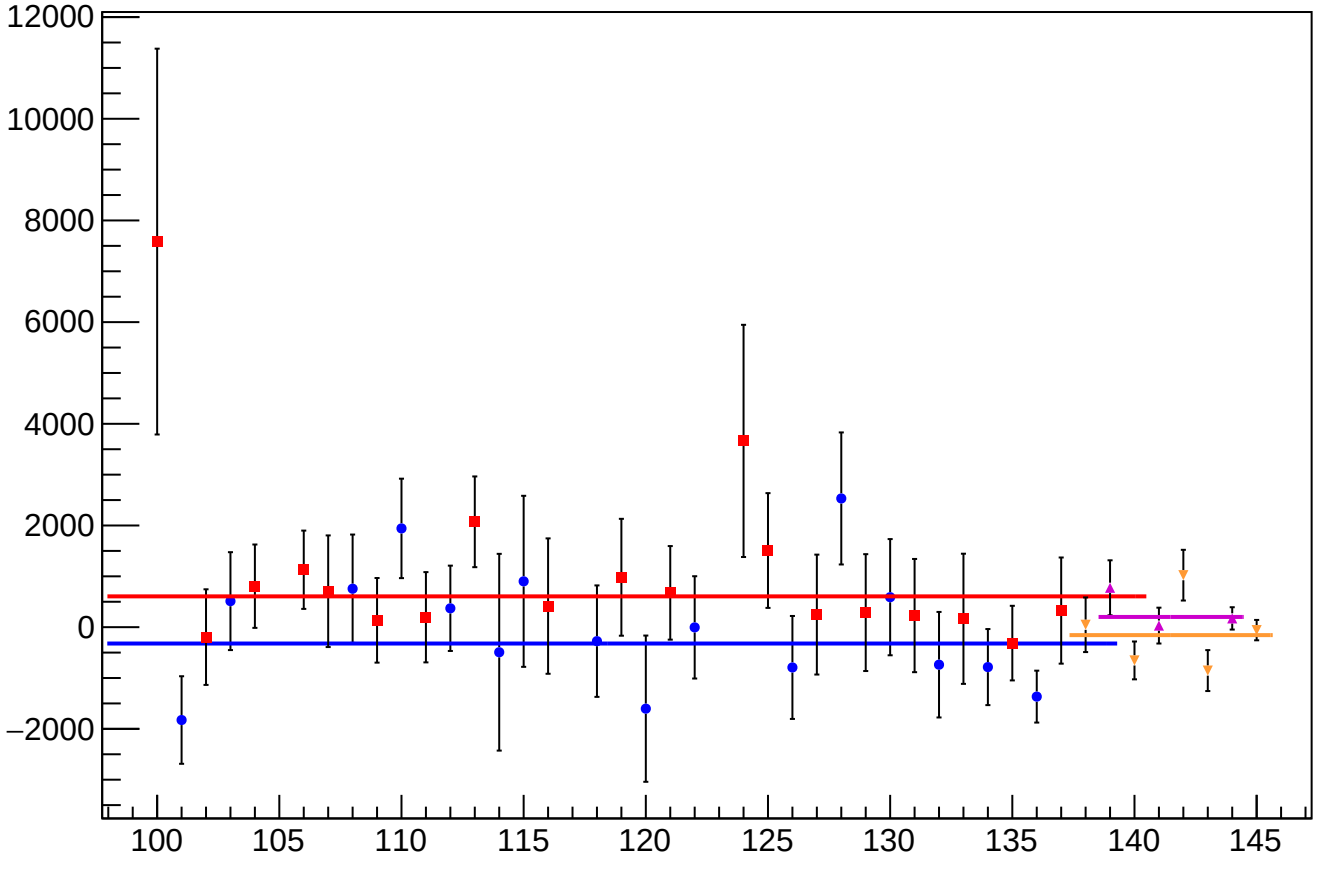
Right: 63.127+/-0.012 $\chi^2$/NDF: 1594958.1/34

In: 60.198+/-0.014 $\chi^2$/NDF:1005853.2/18

Out: 59.393+/-0.013 $\chi^2$/NDF:1183136.3/23

All: 59.767+/-0.010 $\chi^2$/NDF: 2190740.6/42

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: -156.279+/-147.778 $\chi^2$/NDF:10.8/4

Right Out: 605.859+/-233.643 $\chi^2$/NDF: 12.5/18

Left In: 201.134+/-176.236 $\chi^2$/NDF:1.4/2

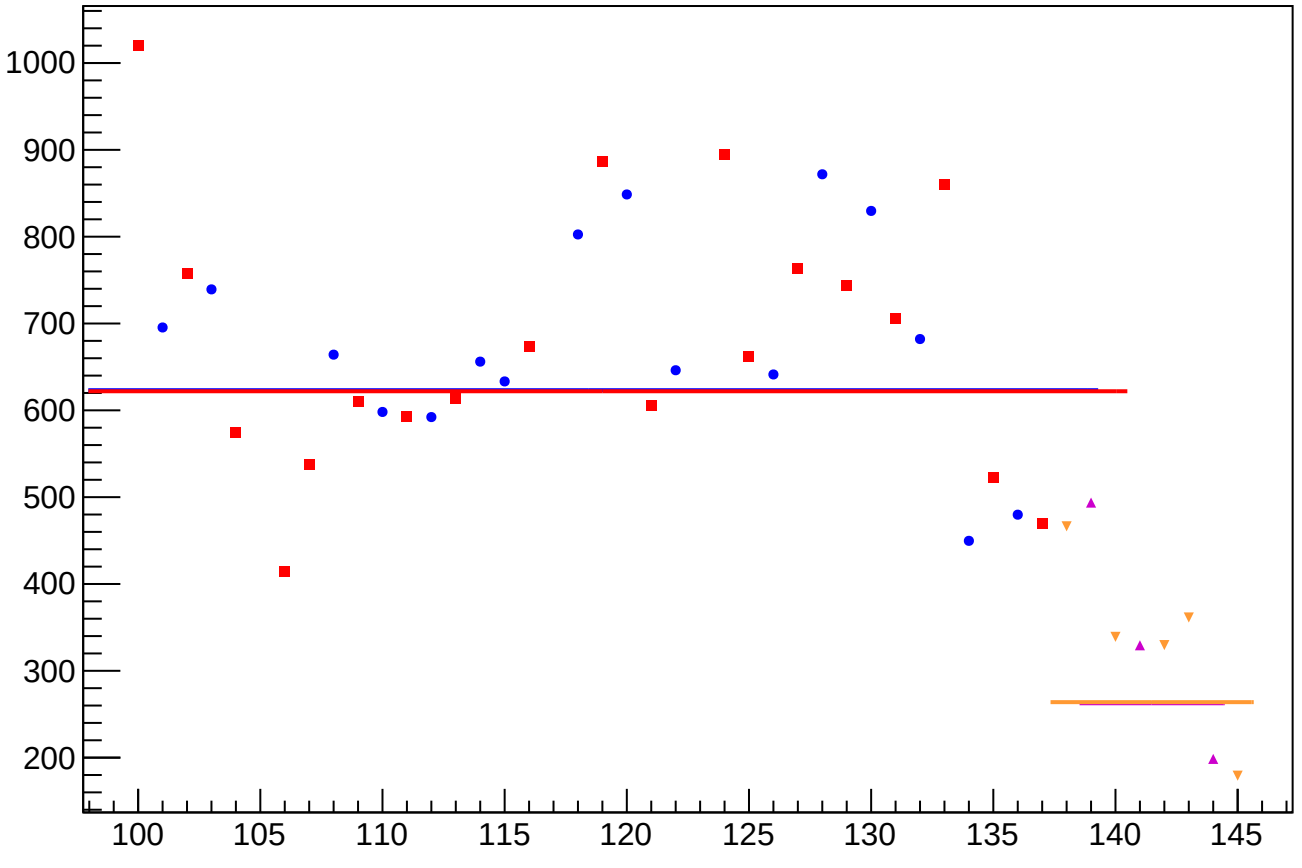
Left: -8.723+/-113.237 $\chi^2$/NDF: 14.6/7

Right: 151.604+/-166.895 $\chi^2$/NDF: 42.9/34

In: 16.474+/-141.735 $\chi^2$/NDF:27.2/18

Out: 61.495+/-124.893 $\chi^2$/NDF:30.8/23

All: 41.817+/-93.704 $\chi^2$/NDF: 58.1/42




Right In: 623.181+/-0.169 $\chi^2$/NDF: 565524.7/15

Left Out: 263.911+/-0.104 $\chi^2$/NDF:875266.6/4

Right Out: 621.975+/-0.165 $\chi^2$/NDF: 582591.9/18

Left In: 262.627+/-0.125 $\chi^2$/NDF:607402.5/2

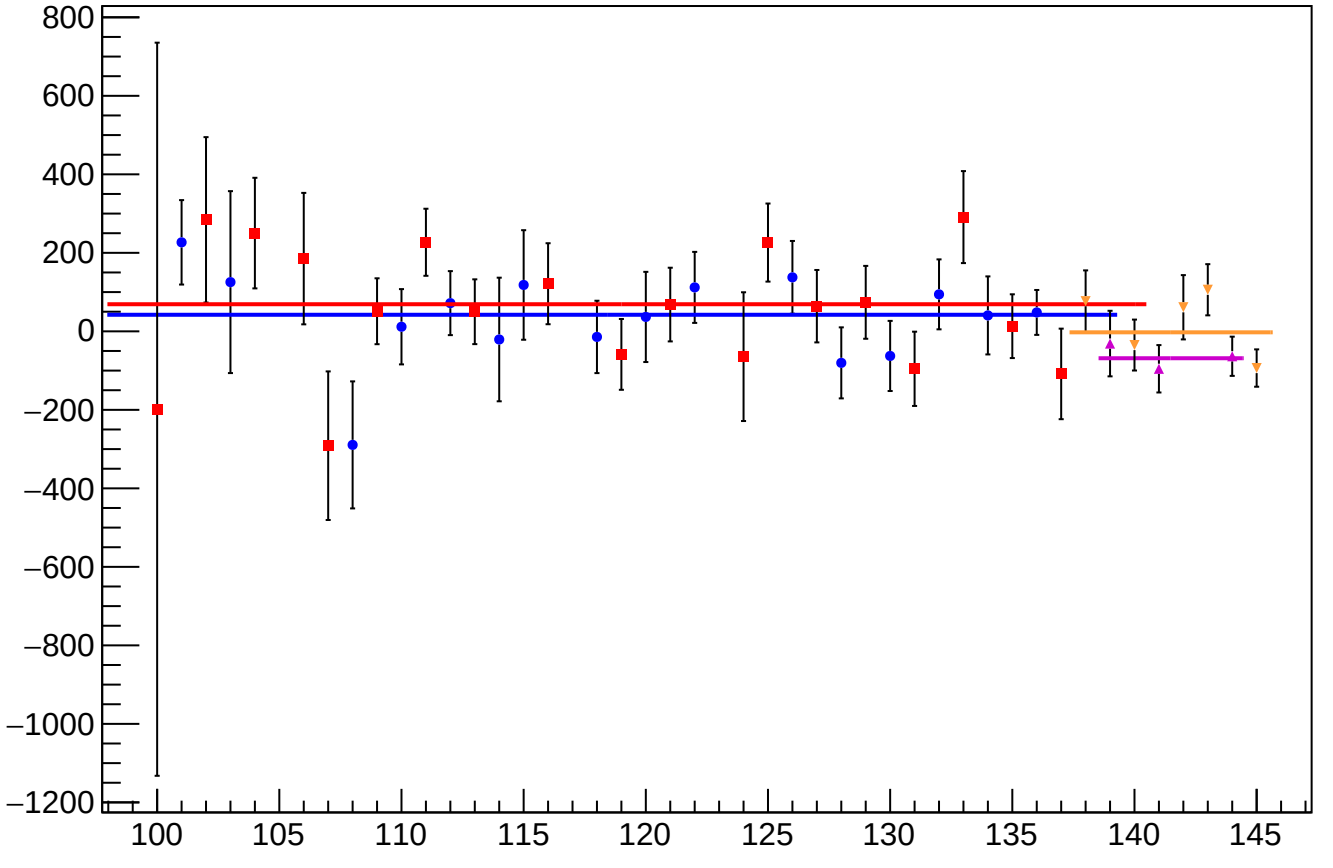
Left: 263.381+/-0.080 $\chi^2$/NDF: 1482731.5/7

Right: 622.565+/-0.118 $\chi^2$/NDF: 1148142.8/34

In: 389.980+/-0.100 $\chi^2$/NDF:4129706.0/18

Out: 366.225+/-0.088 $\chi^2$/NDF:4812917.1/23

All: 376.608+/-0.066 $\chi^2$/NDF: 8974249.1/42




Right In: 42.213+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: -2.498+/-28.560 $\chi^2$/NDF:8.3/4

Right Out: 69.068+/-24.420 $\chi^2$/NDF: 25.3/18

Left In: -68.525+/-34.952 $\chi^2$/NDF:0.4/2

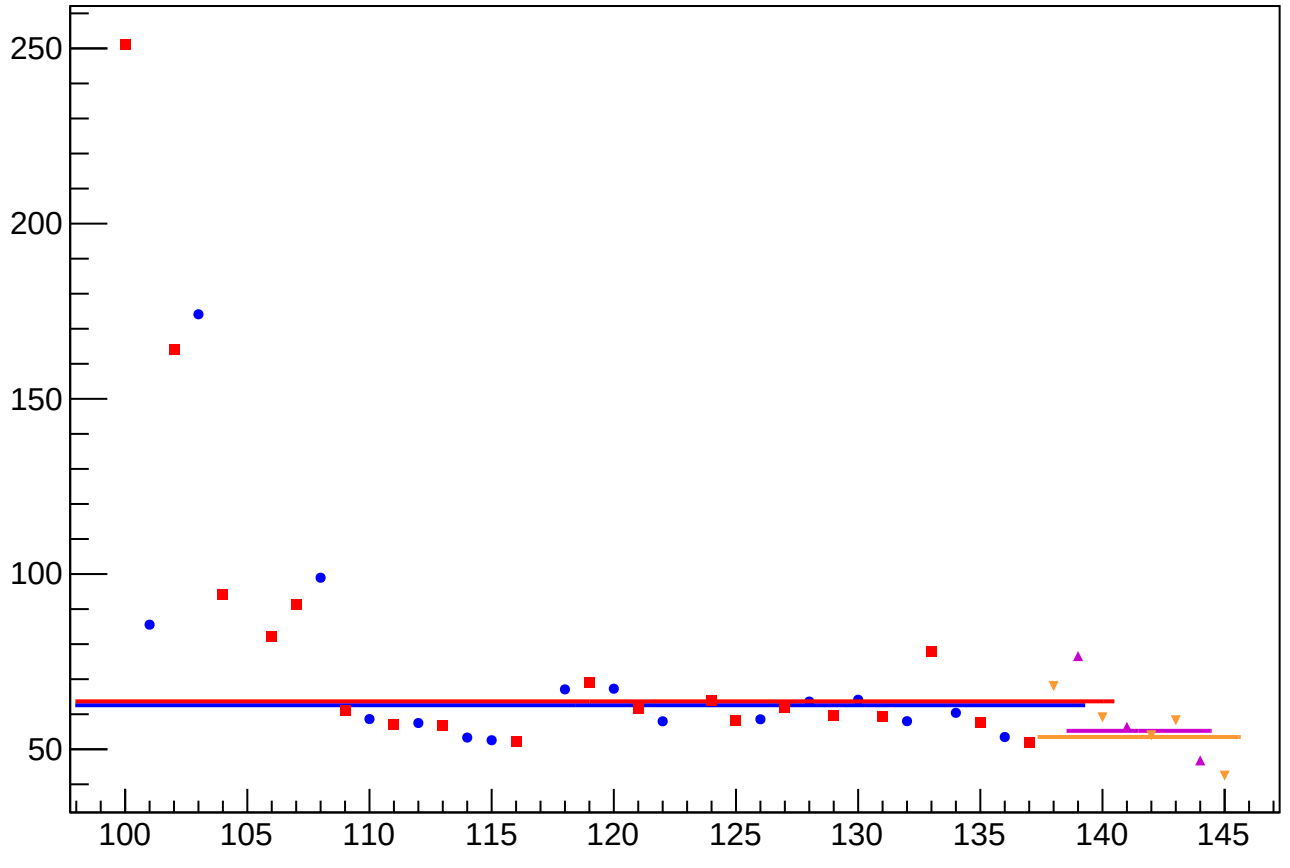
Left: -28.933+/-22.116 $\chi^2$/NDF: 10.9/7

Right: 55.523+/-17.192 $\chi^2$/NDF: 39.4/34

In: 6.316+/-19.900 $\chi^2$/NDF:20.7/18

Out: 38.844+/-18.560 $\chi^2$/NDF:37.2/23

All: 23.712+/-13.573 $\chi^2$/NDF: 59.4/42




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758605.6/15

Left Out: 53.501+/-0.020 $\chi^2$/NDF:201634.2/4

Right Out: 63.675+/-0.017 $\chi^2$/NDF: 831432.5/18

Left In: 55.261+/-0.025 $\chi^2$/NDF:188222.3/2

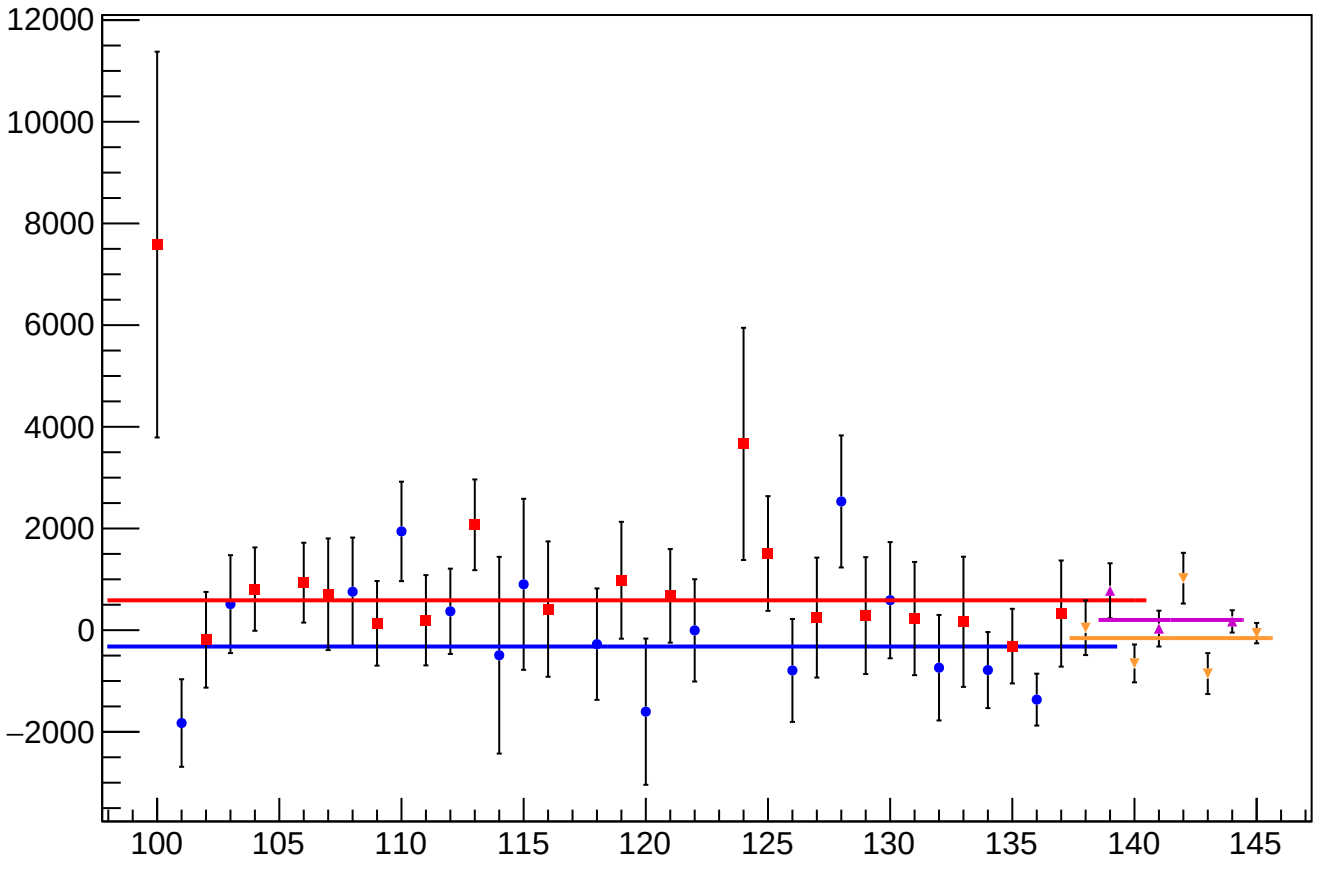
Left: 54.206+/-0.016 $\chi^2$/NDF: 392898.7/7

Right: 63.115+/-0.012 $\chi^2$/NDF: 1592120.8/34

In: 60.198+/-0.014 $\chi^2$/NDF:1005855.3/18

Out: 59.378+/-0.013 $\chi^2$/NDF:1179684.5/23

All: 59.760+/-0.010 $\chi^2$/NDF: 2187353.4/42




Right In: -321.660+/-238.484 $\chi^2$/NDF: 22.7/15

Left Out: -156.276+/-147.778 $\chi^2$/NDF:10.8/4

Right Out: 587.224+/-234.080 $\chi^2$/NDF: 12.2/18

Left In: 201.145+/-176.236 $\chi^2$/NDF:1.4/2

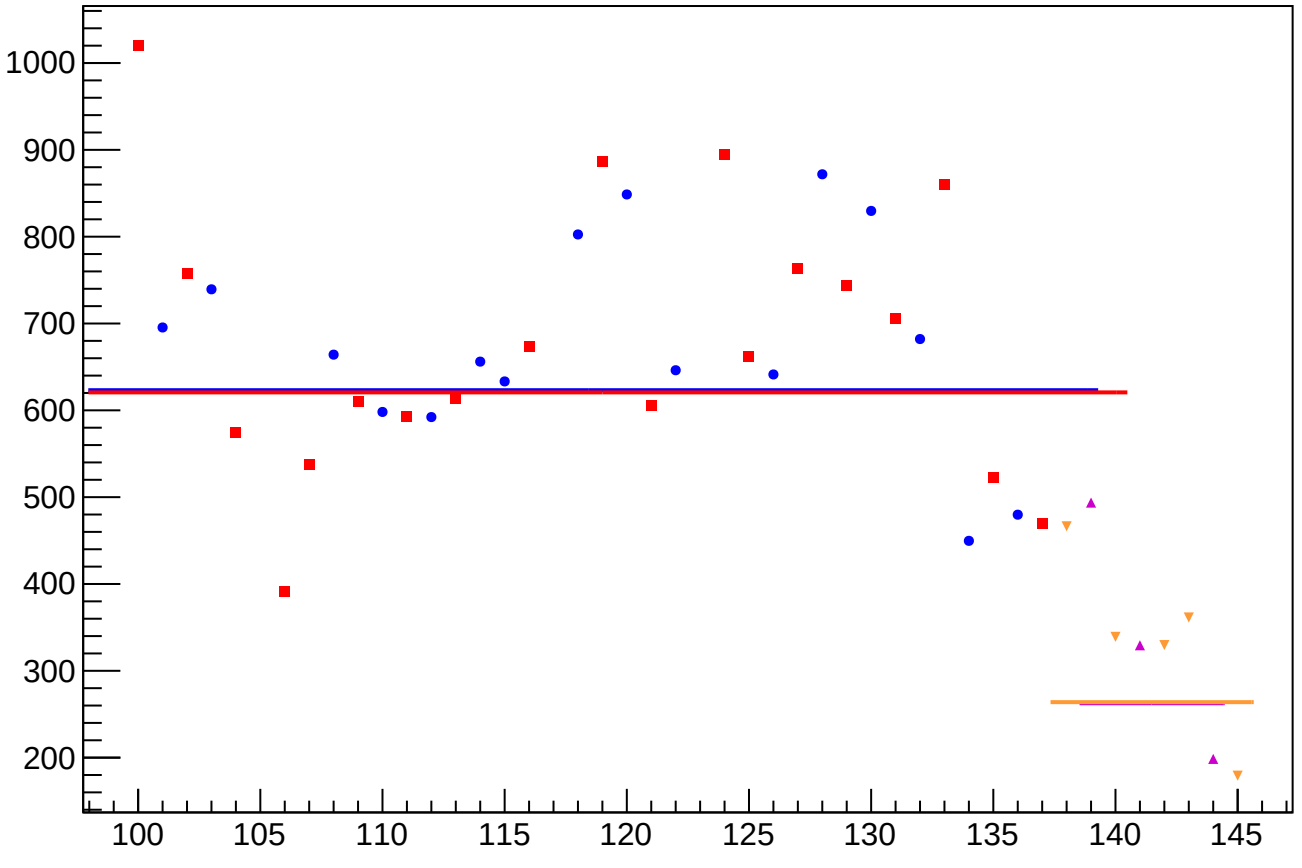
Left: -8.718+/-113.237 $\chi^2$/NDF: 14.6/7

Right: 141.251+/-167.055 $\chi^2$/NDF: 42.3/34

In: 16.484+/-141.735 $\chi^2$/NDF:27.2/18

Out: 55.605+/-124.960 $\chi^2$/NDF:30.2/23

All: 38.495+/-93.732 $\chi^2$/NDF: 57.4/42




Right In: 623.184+/-0.169 $\chi^2$/NDF: 565557.0/15

Left Out: 263.911+/-0.104 $\chi^2$/NDF:875270.5/4

Right Out: 620.673+/-0.166 $\chi^2$/NDF: 610523.8/18

Left In: 262.627+/-0.125 $\chi^2$/NDF:607403.7/2

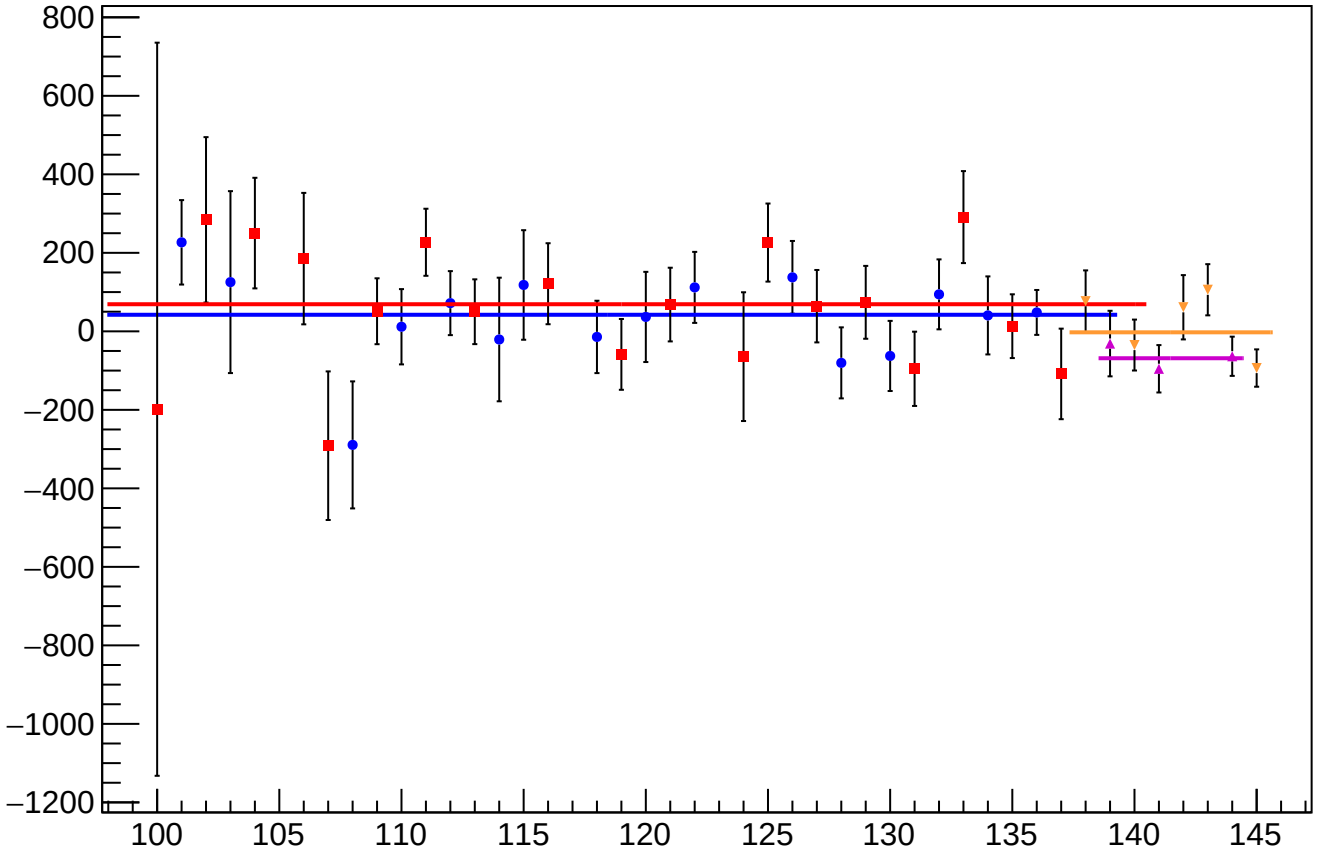
Left: 263.381+/-0.080 $\chi^2$/NDF: 1482736.6/7

Right: 621.905+/-0.118 $\chi^2$/NDF: 1176193.8/34

In: 389.980+/-0.100 $\chi^2$/NDF:4129765.0/18

Out: 365.580+/-0.088 $\chi^2$/NDF:4807629.7/23

All: 376.251+/-0.066 $\chi^2$/NDF: 8970743.4/42




Right In: 42.213+/-24.207 $\chi^2$/NDF: 13.6/15

Left Out: -2.498+/-28.560 $\chi^2$/NDF:8.3/4

Right Out: 69.068+/-24.420 $\chi^2$/NDF: 25.3/18

Left In: -68.525+/-34.952 $\chi^2$/NDF:0.4/2

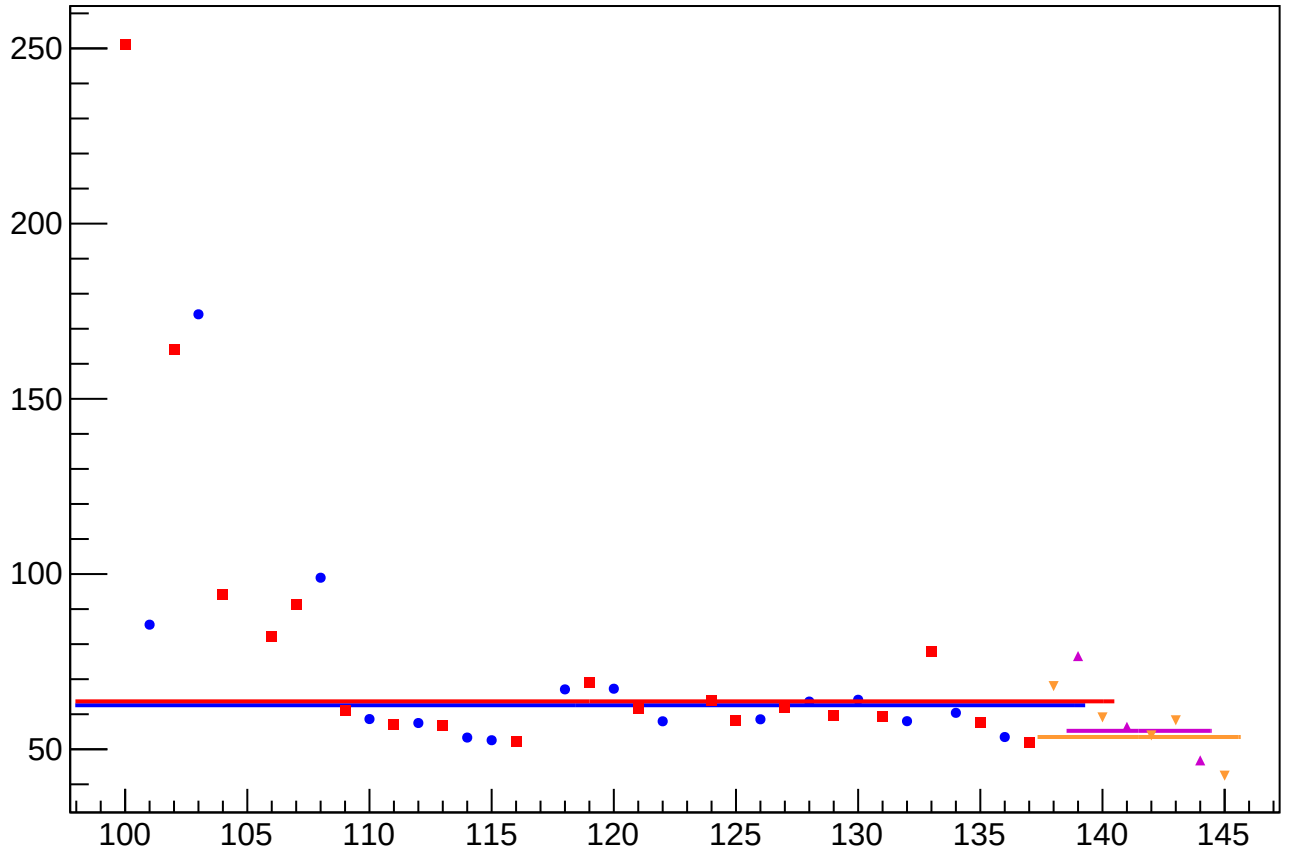
Left: -28.933+/-22.116 $\chi^2$/NDF: 10.9/7

Right: 55.523+/-17.192 $\chi^2$/NDF: 39.4/34

In: 6.316+/-19.900 $\chi^2$/NDF:20.7/18

Out: 38.844+/-18.560 $\chi^2$/NDF:37.2/23

All: 23.712+/-13.573 $\chi^2$/NDF: 59.4/42




Right In: 62.566+/-0.017 $\chi^2$/NDF: 758605.6/15

Left Out: 53.501+/-0.020 $\chi^2$/NDF:201634.2/4

Right Out: 63.675+/-0.017 $\chi^2$/NDF: 831432.5/18

Left In: 55.261+/-0.025 $\chi^2$/NDF:188222.3/2

Left: 54.206+/-0.016 $\chi^2$/NDF: 392898.7/7

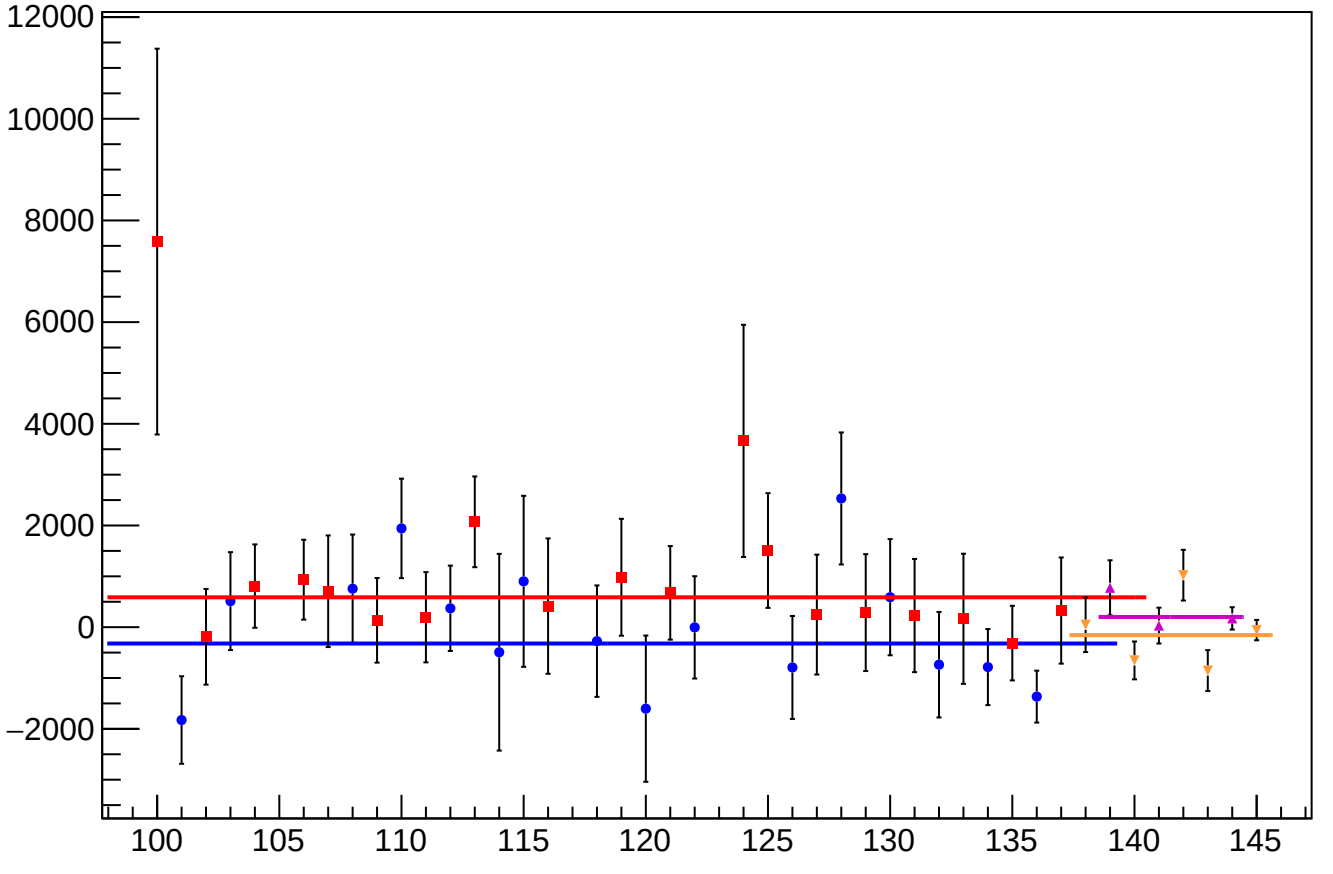
Right: 63.115+/-0.012 $\chi^2$/NDF: 1592120.8/34

In: 60.198+/-0.014 $\chi^2$/NDF:1005855.3/18

Out: 59.378+/-0.013 $\chi^2$/NDF:1179684.5/23

All: 59.760+/-0.010 $\chi^2$/NDF: 2187353.4/42

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: -156.276+/-147.778 $\chi^2$/NDF:10.8/4

Right Out: 587.224+/-234.080 $\chi^2$/NDF: 12.2/18

Left In: 201.145+/-176.236 $\chi^2$/NDF:1.4/2

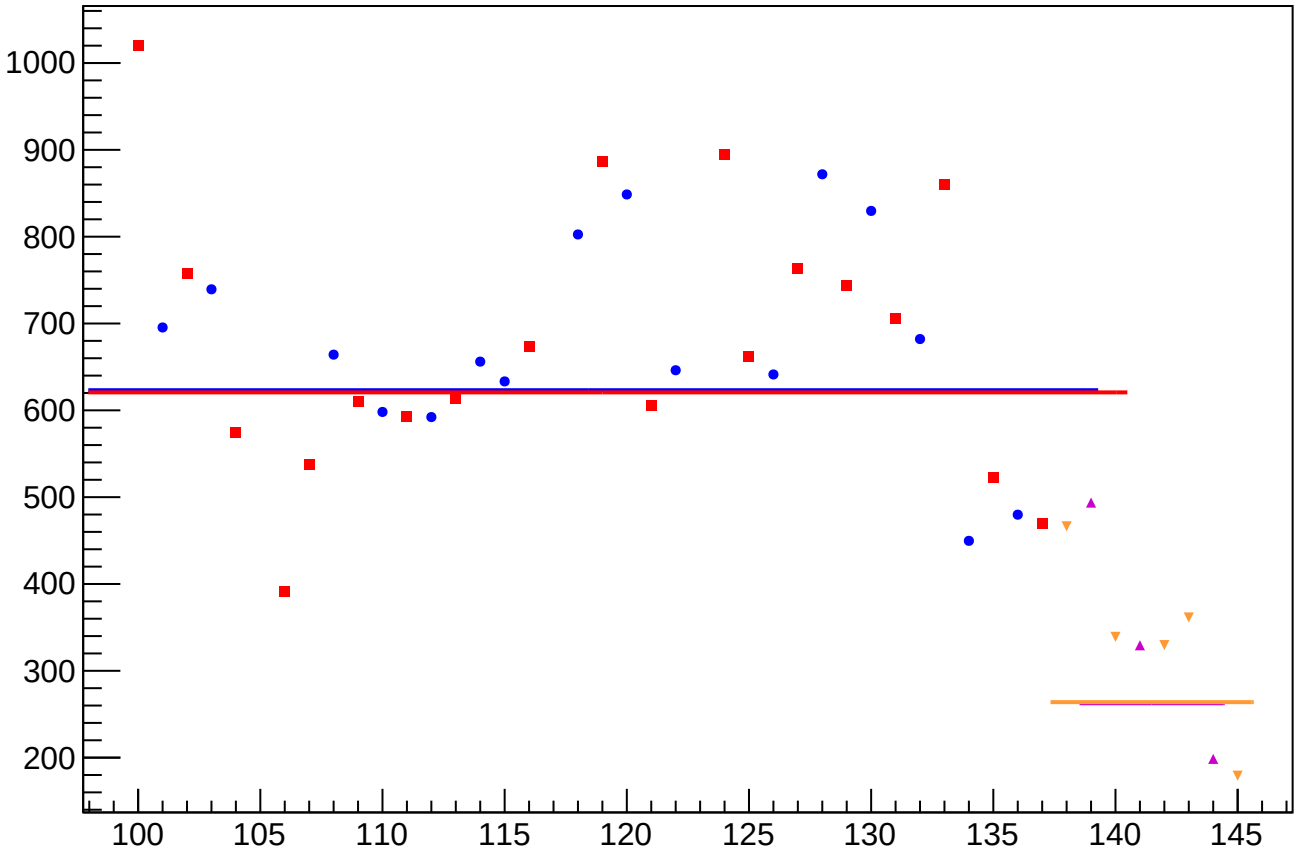
Left: -8.718+/-113.237 $\chi^2$/NDF: 14.6/7

Right: 141.251+/-167.055 $\chi^2$/NDF: 42.3/34

In: 16.484+/-141.735 $\chi^2$/NDF:27.2/18

Out: 55.605+/-124.960 $\chi^2$/NDF:30.2/23

All: 38.495+/-93.732 $\chi^2$/NDF: 57.4/42




Right In: 623.184+/-0.169 $\chi^2$/NDF: 565557.0/15

Left Out: 263.911+/-0.104 $\chi^2$/NDF:875270.5/4

Right Out: 620.673+/-0.166 $\chi^2$/NDF: 610523.8/18

Left In: 262.627+/-0.125 $\chi^2$/NDF:607403.7/2

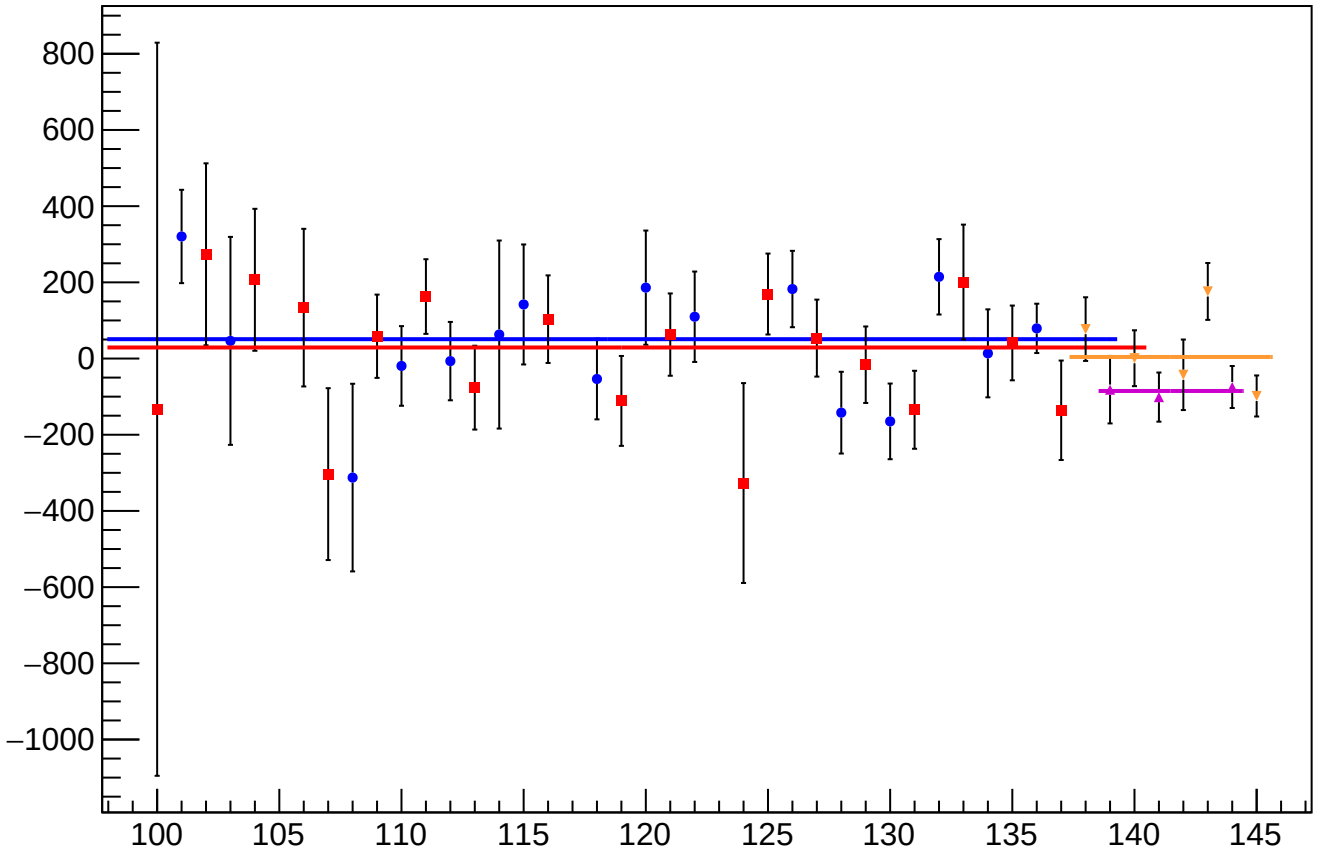
Left: 263.381+/-0.080 $\chi^2$/NDF: 1482736.6/7

Right: 621.905+/-0.118 $\chi^2$/NDF: 1176193.8/34

In: 389.980+/-0.100 $\chi^2$/NDF:4129765.0/18

Out: 365.580+/-0.088 $\chi^2$/NDF:4807629.7/23

All: 376.251+/-0.066 $\chi^2$/NDF: 8970743.4/42




Right In: 50.840+/-28.316 $\chi^2$/NDF: 22.9/15

Left Out: 4.138+/-32.108 $\chi^2$/NDF:9.9/4

Right Out: 29.040+/-28.910 $\chi^2$/NDF: 18.5/18

Left In: -85.118+/-37.876 $\chi^2$/NDF:0.1/2

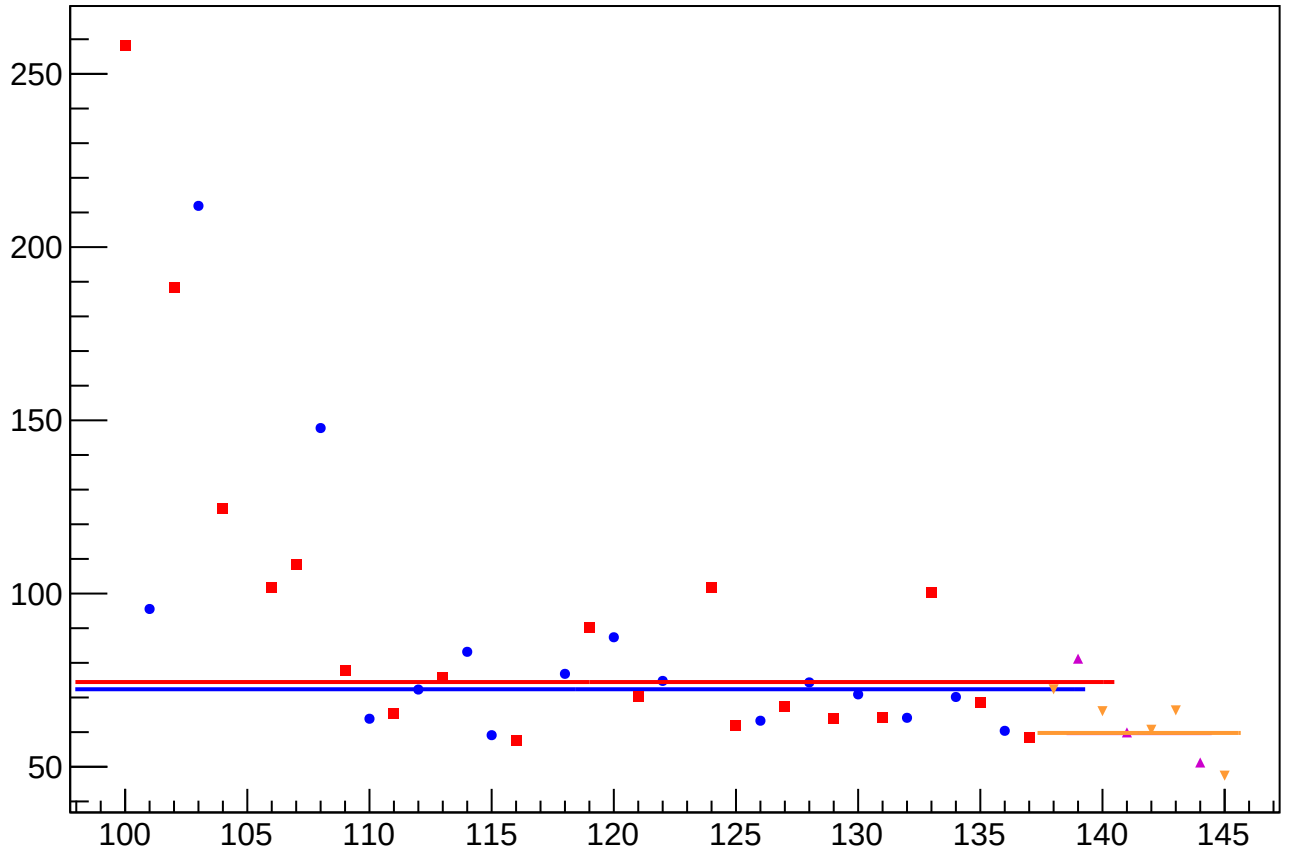
Left: -33.183+/-24.492 $\chi^2$/NDF: 13.3/7

Right: 40.166+/-20.229 $\chi^2$/NDF: 41.7/34

In: 2.096+/-22.679 $\chi^2$/NDF:31.2/18

Out: 17.891+/-21.484 $\chi^2$/NDF:28.8/23

All: 10.421+/-15.597 $\chi^2$/NDF: 60.3/42




Right In: 72.378+/-0.020 $\chi^2$/NDF: 938175.3/15

Left Out: 59.766+/-0.023 $\chi^2$/NDF:180277.4/4

Right Out: 74.463+/-0.020 $\chi^2$/NDF: 1052296.6/18

Left In: 59.719+/-0.027 $\chi^2$/NDF:165084.1/2

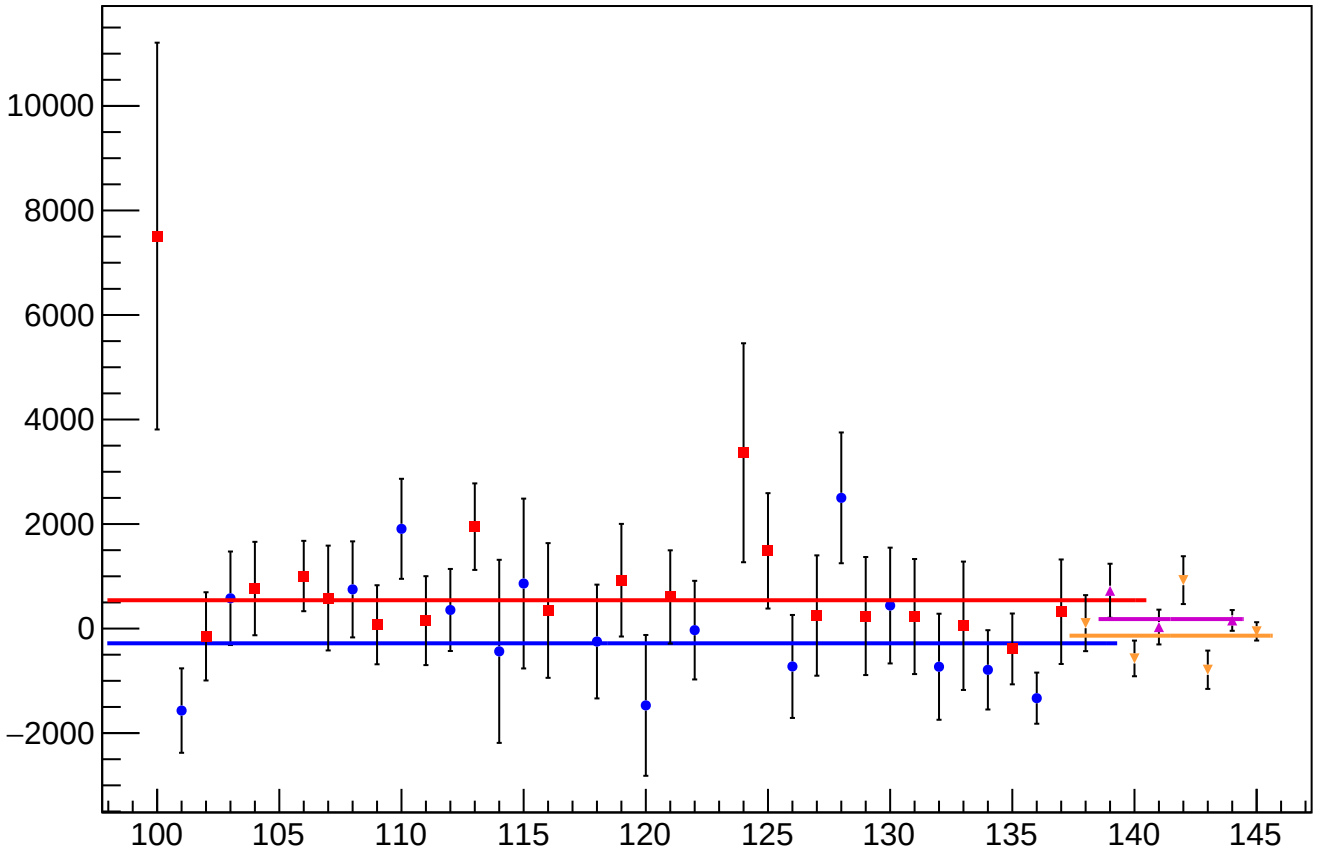
Left: 59.746+/-0.017 $\chi^2$/NDF: 345363.2/7

Right: 73.399+/-0.014 $\chi^2$/NDF: 1995784.4/34

In: 67.839+/-0.016 $\chi^2$/NDF:1246563.6/18

Out: 67.883+/-0.015 $\chi^2$/NDF:1464018.6/23

All: 67.862+/-0.011 $\chi^2$/NDF: 2710586.1/42




Right In: -282.039+/-227.789 $\chi^2$/NDF: 22.8/15

Left Out: -136.134+/-132.713 $\chi^2$/NDF:10.6/4

Right Out: 542.028+/-220.904 $\chi^2$/NDF: 13.3/18

Left In: 181.473+/-161.986 $\chi^2$/NDF:1.3/2

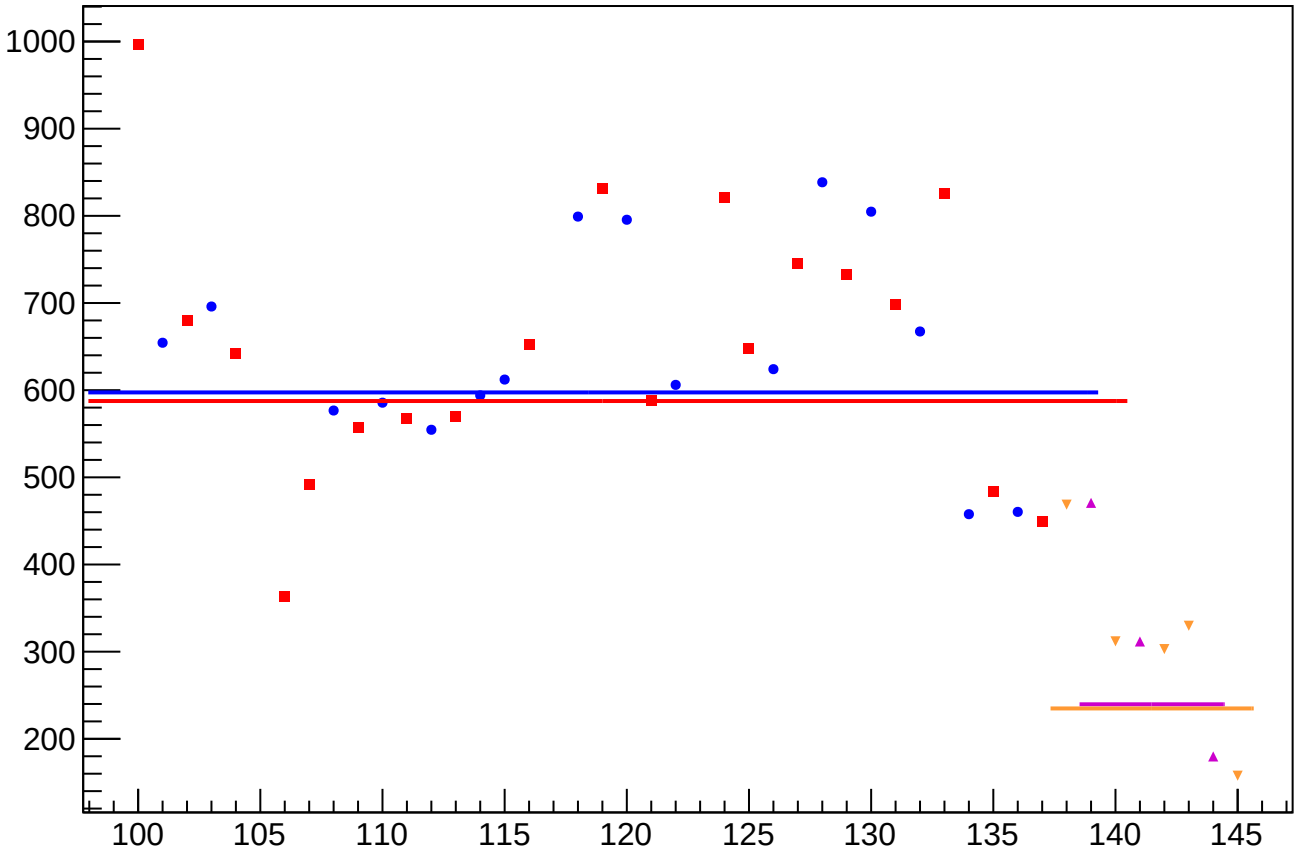
Left: -8.571+/-102.659 $\chi^2$/NDF: 14.2/7

Right: 142.636+/-158.581 $\chi^2$/NDF: 42.8/34

In: 25.800+/-132.011 $\chi^2$/NDF:26.9/18

Out: 43.719+/-113.762 $\chi^2$/NDF:30.8/23

All: 36.083+/-86.177 $\chi^2$/NDF: 57.7/42




Right In: 597.438+/-0.161 $\chi^2$/NDF: 533791.9/15

Left Out: 234.863+/-0.094 $\chi^2$/NDF:1047271.9/4

Right Out: 587.565+/-0.156 $\chi^2$/NDF: 689035.8/18

Left In: 239.611+/-0.115 $\chi^2$/NDF:674798.1/2

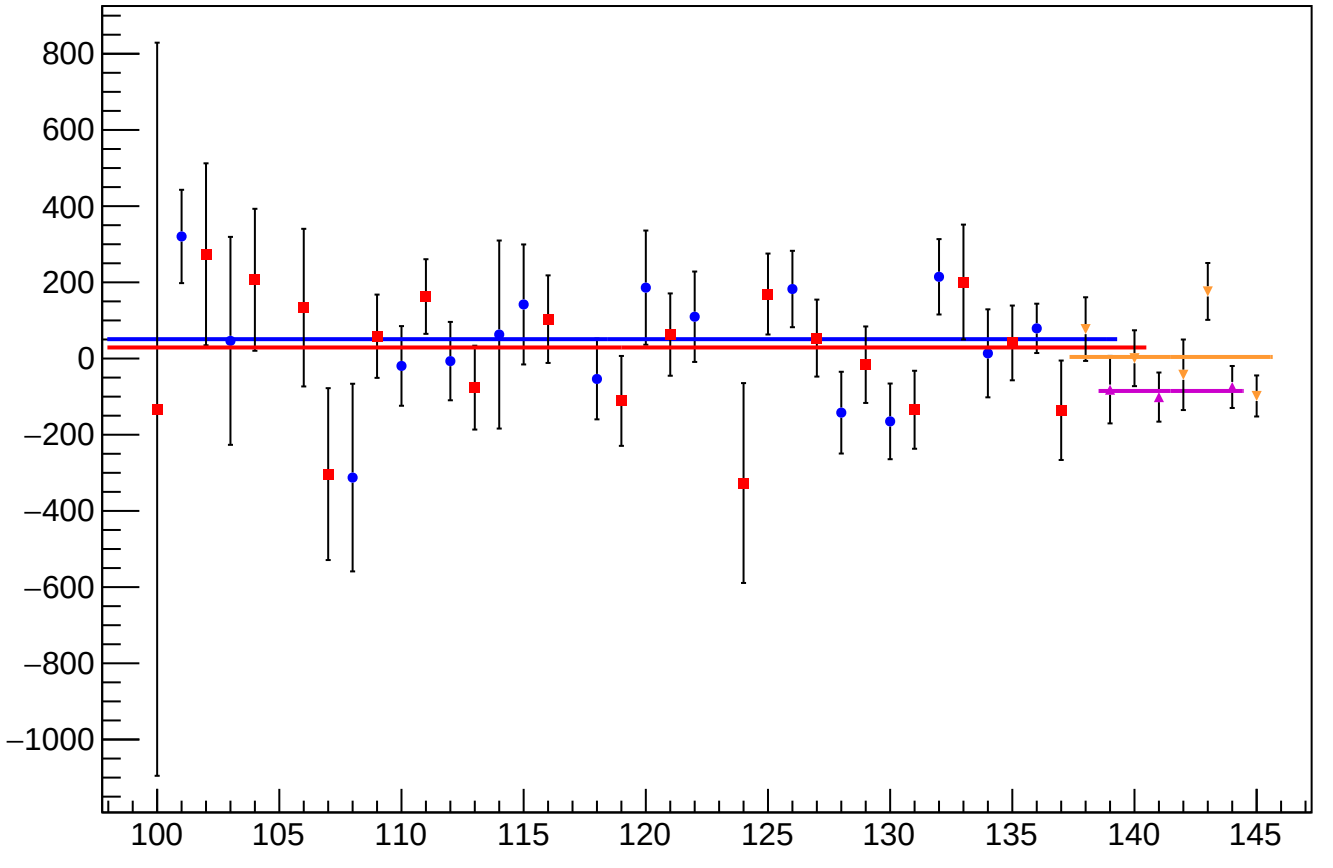
Left: 236.770+/-0.073 $\chi^2$/NDF: 1723097.9/7

Right: 592.350+/-0.112 $\chi^2$/NDF: 1224764.0/34

In: 359.789+/-0.093 $\chi^2$/NDF:4486321.0/18

Out: 328.402+/-0.080 $\chi^2$/NDF:5482611.4/23

All: 341.778+/-0.061 $\chi^2$/NDF: 10033811.1/42




Right In: 50.840+/-28.316 $\chi^2$/NDF: 22.9/15

Left Out: 4.139+/-32.109 $\chi^2$/NDF:9.9/4

Right Out: 29.038+/-28.910 $\chi^2$/NDF: 18.5/18

Left In: -85.117+/-37.876 $\chi^2$/NDF:0.1/2

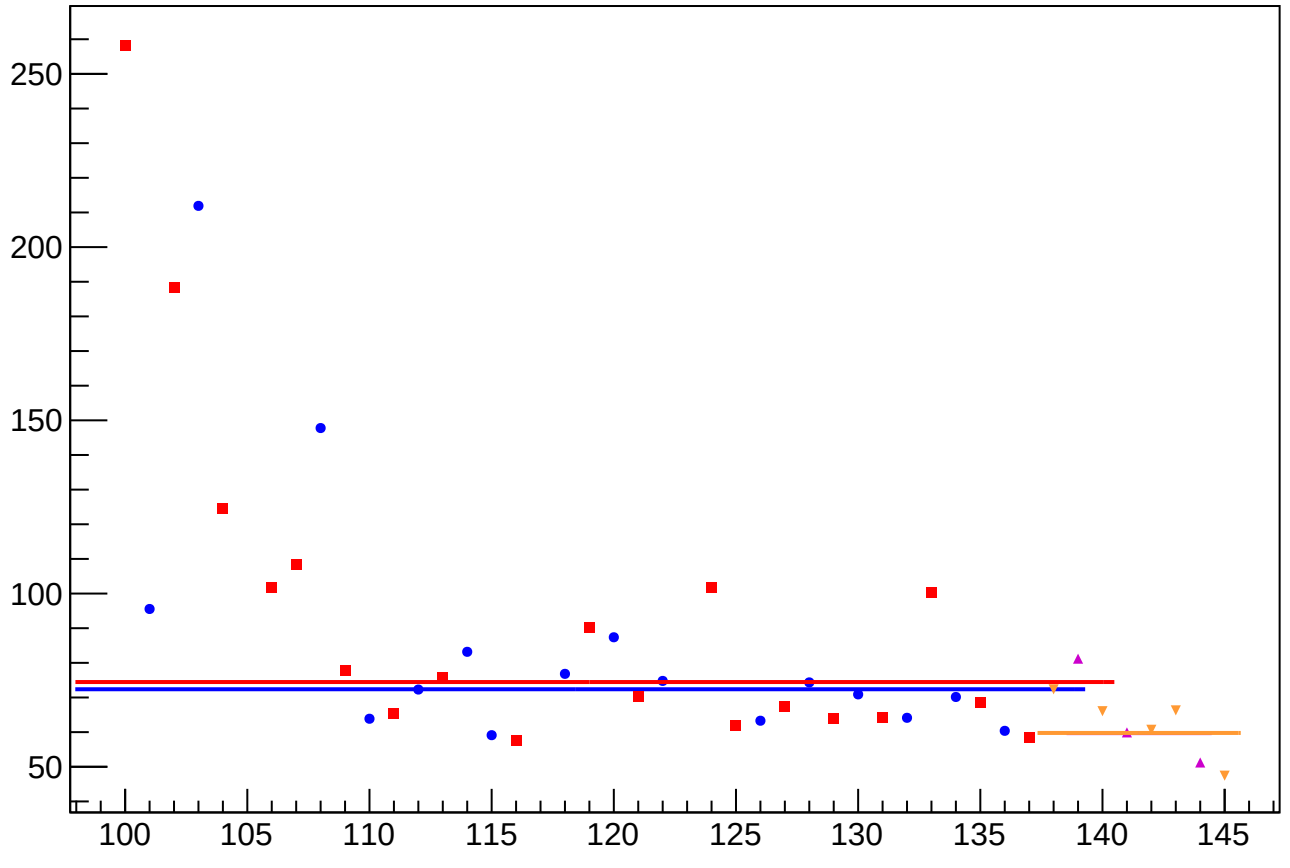
Left: -33.183+/-24.492 $\chi^2$/NDF: 13.3/7

Right: 40.165+/-20.229 $\chi^2$/NDF: 41.7/34

In: 2.096+/-22.679 $\chi^2$/NDF:31.2/18

Out: 17.890+/-21.484 $\chi^2$/NDF:28.8/23

All: 10.420+/-15.597 $\chi^2$/NDF: 60.3/42




Right In: 72.378+/-0.020 $\chi^2$/NDF: 938180.0/15

Left Out: 59.766+/-0.023 $\chi^2$/NDF:180283.9/4

Right Out: 74.463+/-0.020 $\chi^2$/NDF: 1052290.0/18

Left In: 59.719+/-0.027 $\chi^2$/NDF:165085.0/2

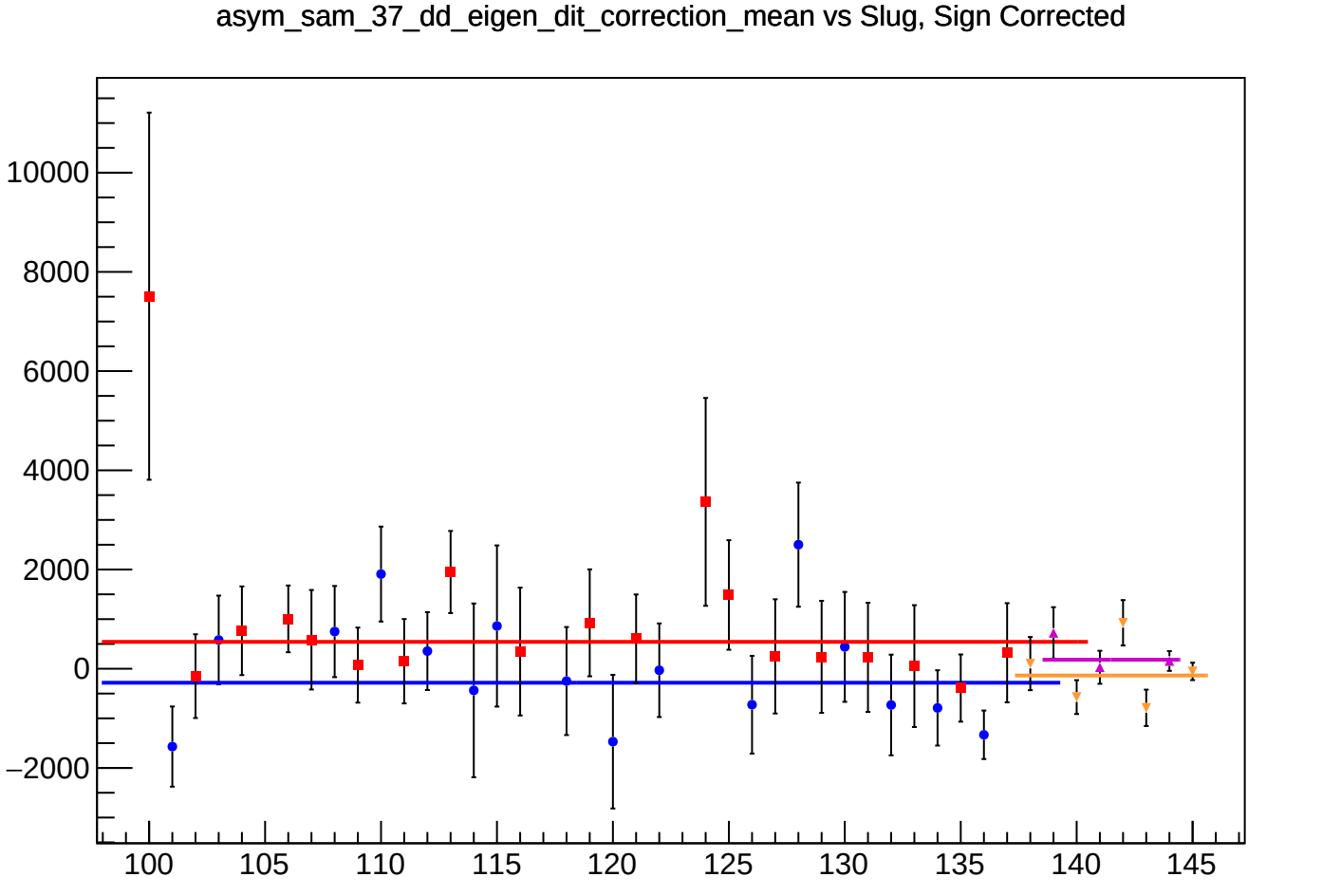
Left: 59.746+/-0.017 $\chi^2$/NDF: 345370.7/7

Right: 73.399+/-0.014 $\chi^2$/NDF: 1995782.9/34

In: 67.839+/-0.016 $\chi^2$/NDF:1246569.5/18

Out: 67.883+/-0.015 $\chi^2$/NDF:1464016.6/23

All: 67.862+/-0.011 $\chi^2$/NDF: 2710589.9/42




Right In: -282.038+/-227.789 $\chi^2$/NDF: 22.8/15

Left Out: -136.134+/-132.713 $\chi^2$/NDF:10.6/4

Right Out: 542.028+/-220.904 $\chi^2$/NDF: 13.3/18

Left In: 181.473+/-161.986 $\chi^2$/NDF:1.3/2

Left: -8.571+/-102.659 $\chi^2$/NDF: 14.2/7

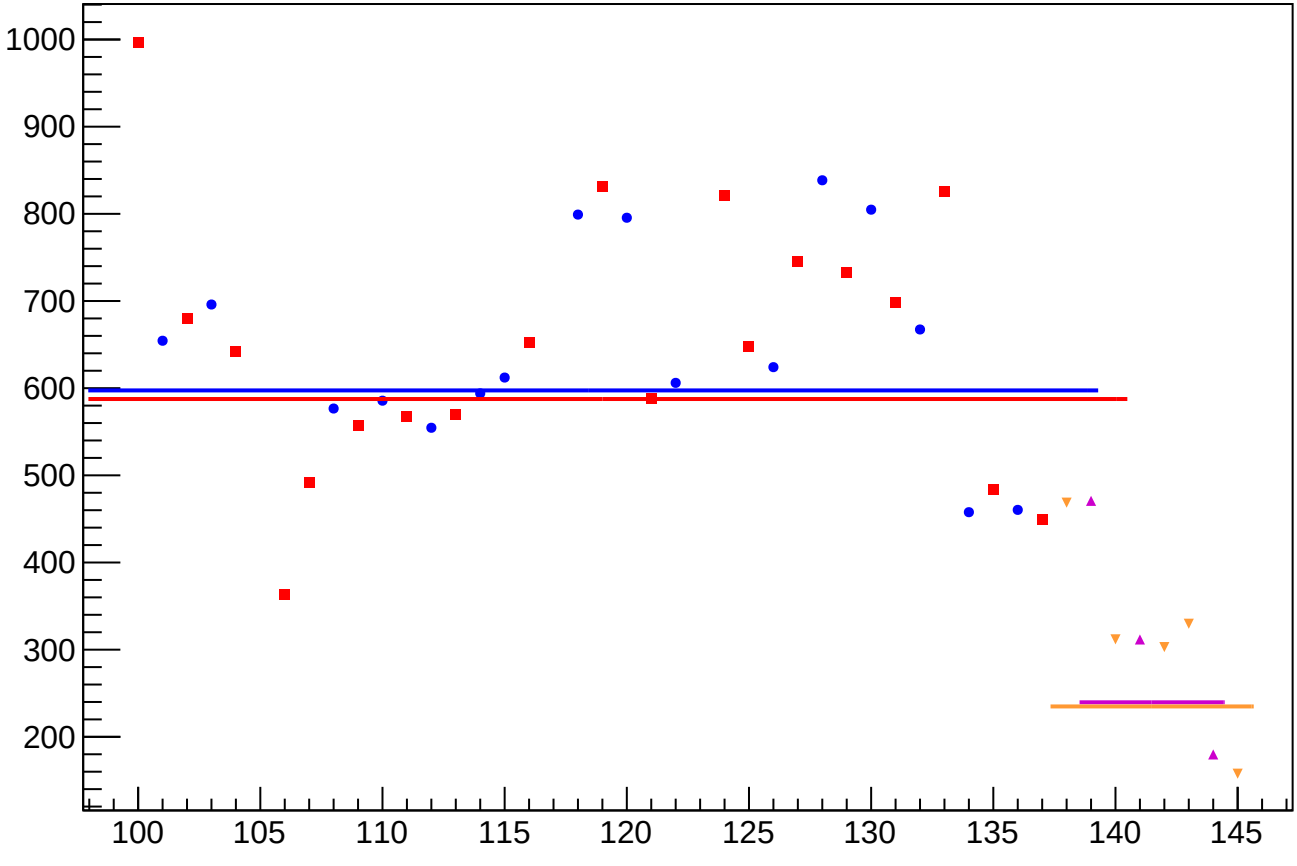
Right: 142.637+/-158.581 $\chi^2$/NDF: 42.8/34

In: 25.800+/-132.011 $\chi^2$/NDF:26.9/18

Out: 43.719+/-113.762 $\chi^2$/NDF:30.8/23

All: 36.083+/-86.177 $\chi^2$/NDF: 57.7/42

asym_sam_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 597.439+/-0.161 $\chi^2$/NDF: 533790.1/15

Left Out: 234.863+/-0.094 $\chi^2$/NDF:1047270.3/4

Right Out: 587.565+/-0.156 $\chi^2$/NDF: 689033.6/18

Left In: 239.611+/-0.115 $\chi^2$/NDF:674796.3/2

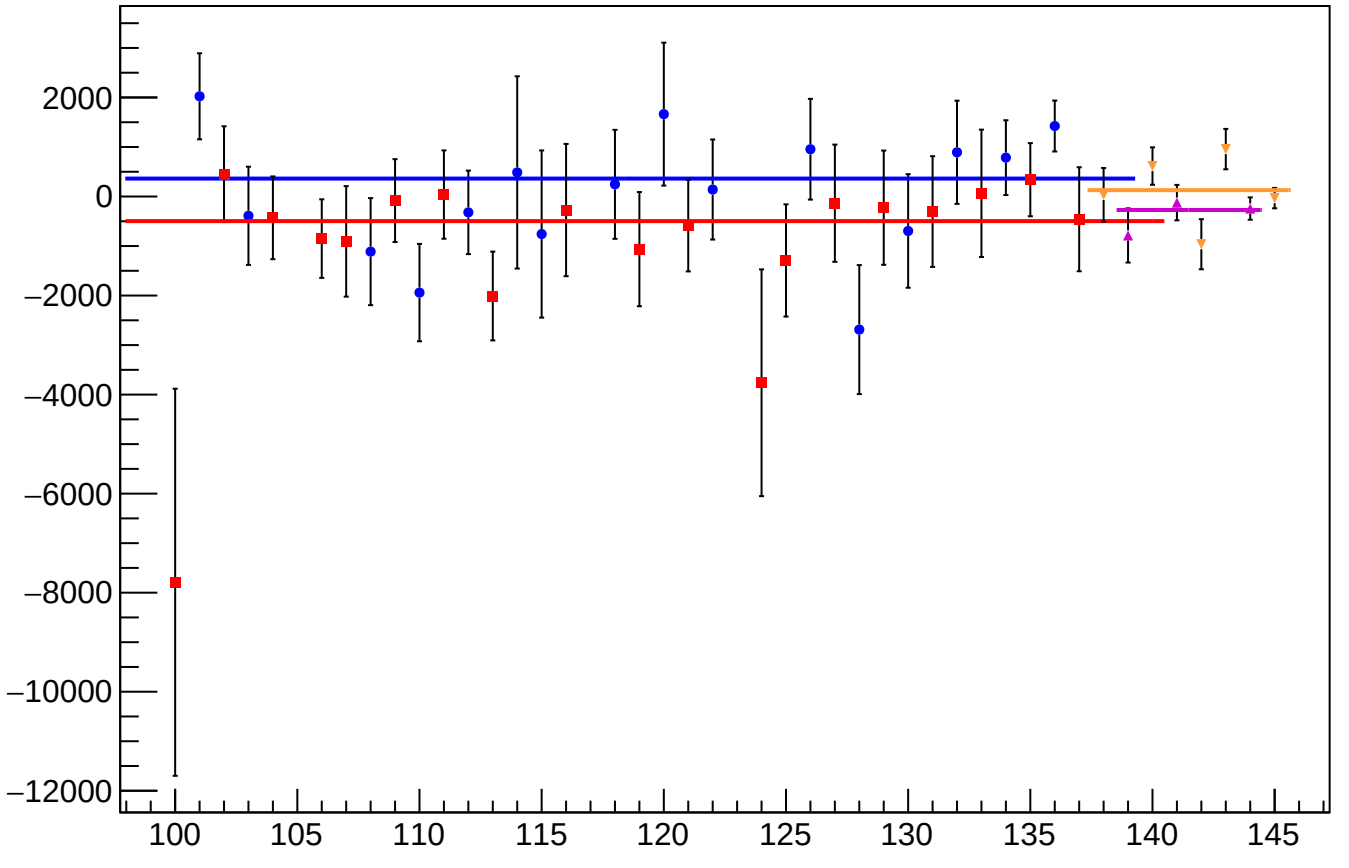
Left: 236.770+/-0.073 $\chi^2$/NDF: 1723094.6/7

Right: 592.350+/-0.112 $\chi^2$/NDF: 1224760.1/34

In: 359.789+/-0.093 $\chi^2$/NDF:4486312.7/18

Out: 328.402+/-0.080 $\chi^2$/NDF:5482603.1/23

All: 341.778+/-0.061 $\chi^2$/NDF: 10033796.0/42




Right In: 362.384+/-240.303 $\chi^2$/NDF: 25.1/15

Left Out: 128.791+/-150.964 $\chi^2$/NDF:11.1/4

Right Out: -496.639+/-236.029 $\chi^2$/NDF: 12.7/18

Left In: -271.575+/-180.306 $\chi^2$/NDF:1.1/2

Left: -36.206+/-115.750 $\chi^2$/NDF: 15.1/7

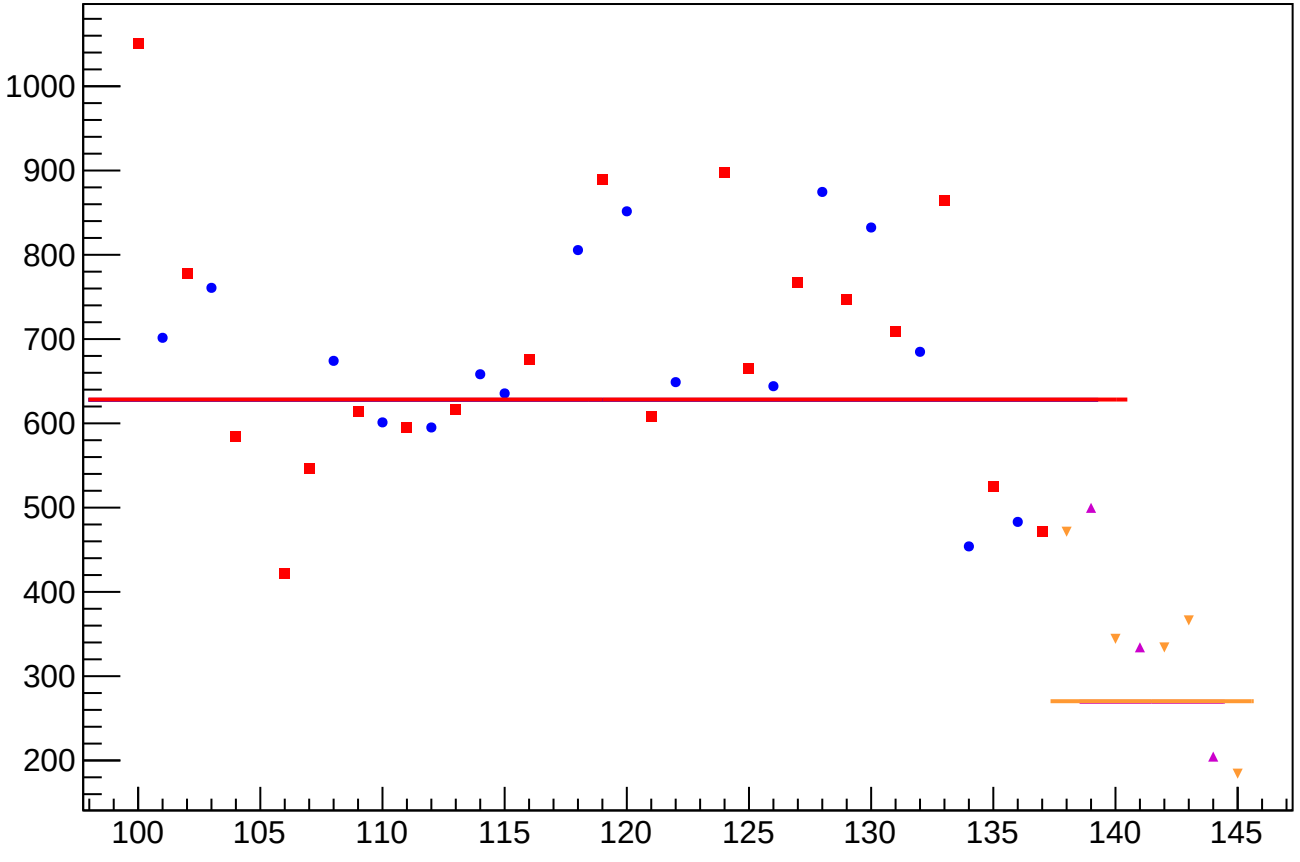
Right: -74.835+/-168.388 $\chi^2$/NDF: 44.3/34

In: -43.222+/-144.222 $\chi^2$/NDF:30.6/18

Out: -52.784+/-127.176 $\chi^2$/NDF:28.8/23

All: -48.601+/-95.387 $\chi^2$/NDF: 59.4/42

# asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 627.896+/-0.170 $\chi^2$/NDF: 566795.7/15

Left Out: 270.298+/-0.107 $\chi^2$/NDF:841856.8/4

Right Out: 628.250+/-0.167 $\chi^2$/NDF: 570979.3/18

Left In: 269.584+/-0.127 $\chi^2$/NDF:585007.6/2

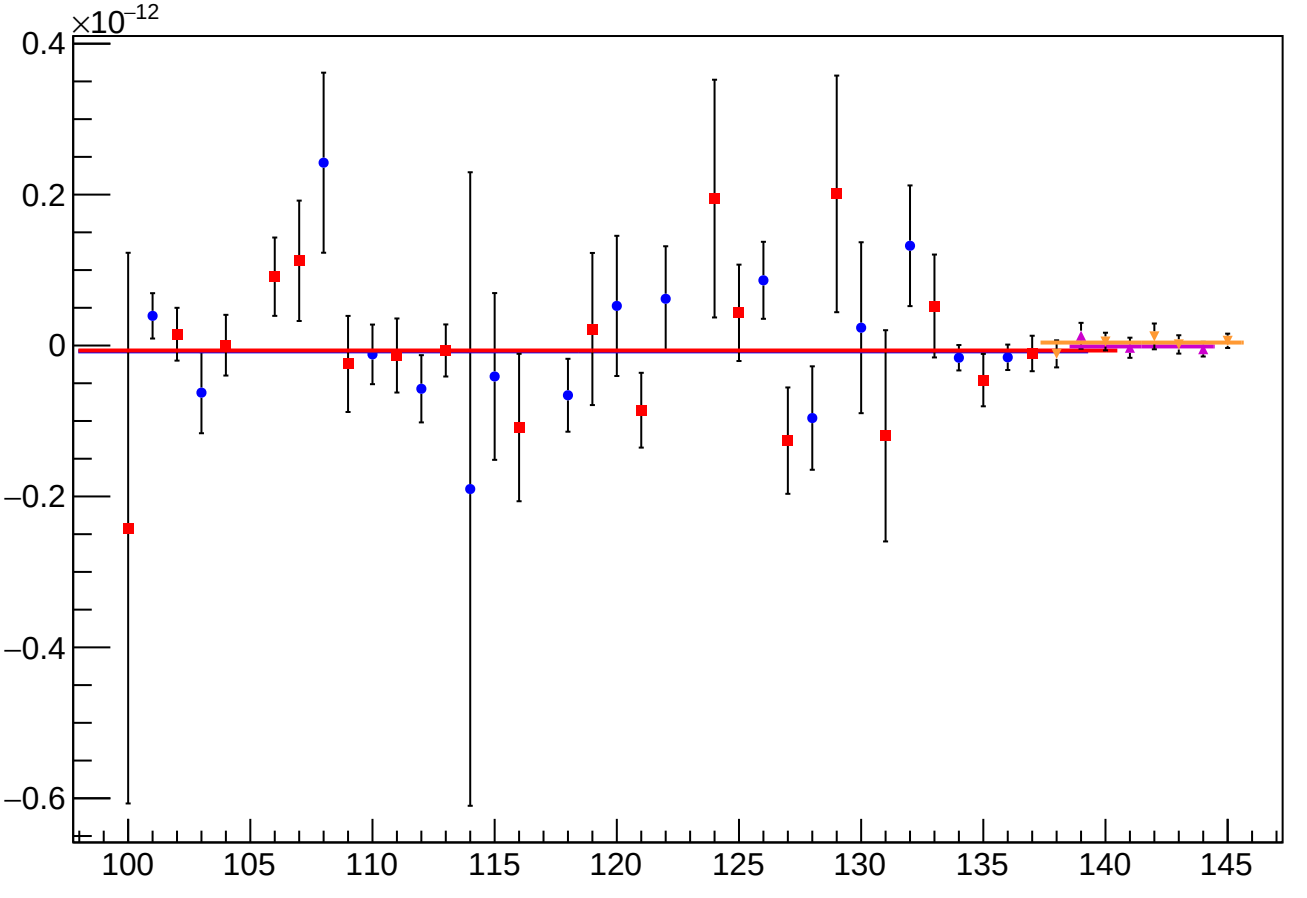
Left: 270.003+/-0.082 $\chi^2$/NDF: 1426882.9/7

Right: 628.076+/-0.119 $\chi^2$/NDF: 1137777.3/34

In: 398.649+/-0.102 $\chi^2$/NDF:3996773.0/18

Out: 374.219+/-0.090 $\chi^2$/NDF:4677303.5/23

All: 384.905+/-0.067 $\chi^2$/NDF: 8706360.1/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.0/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.8/2

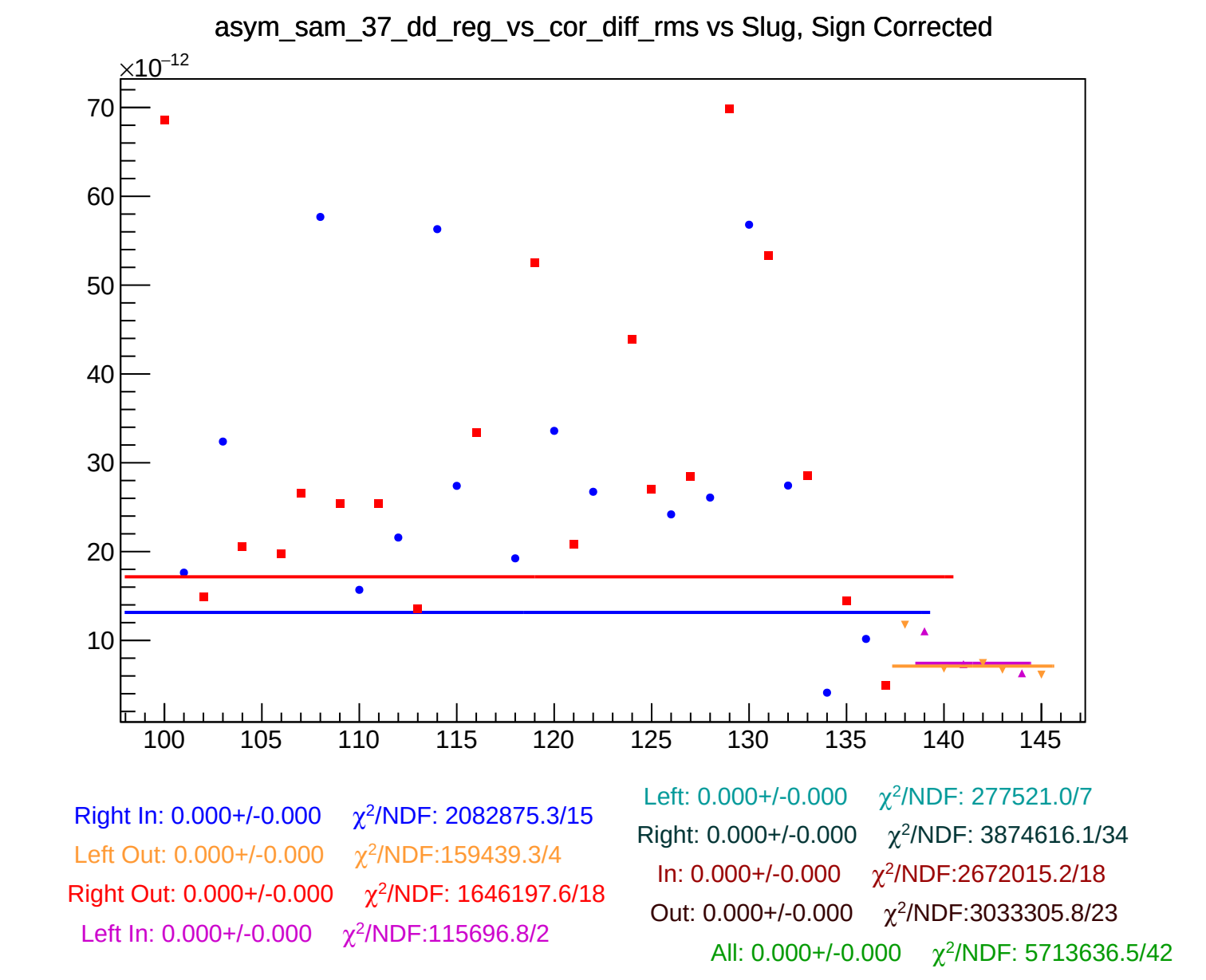
Left: 0.000+/-0.000 $\chi^2$/NDF: 2.2/7

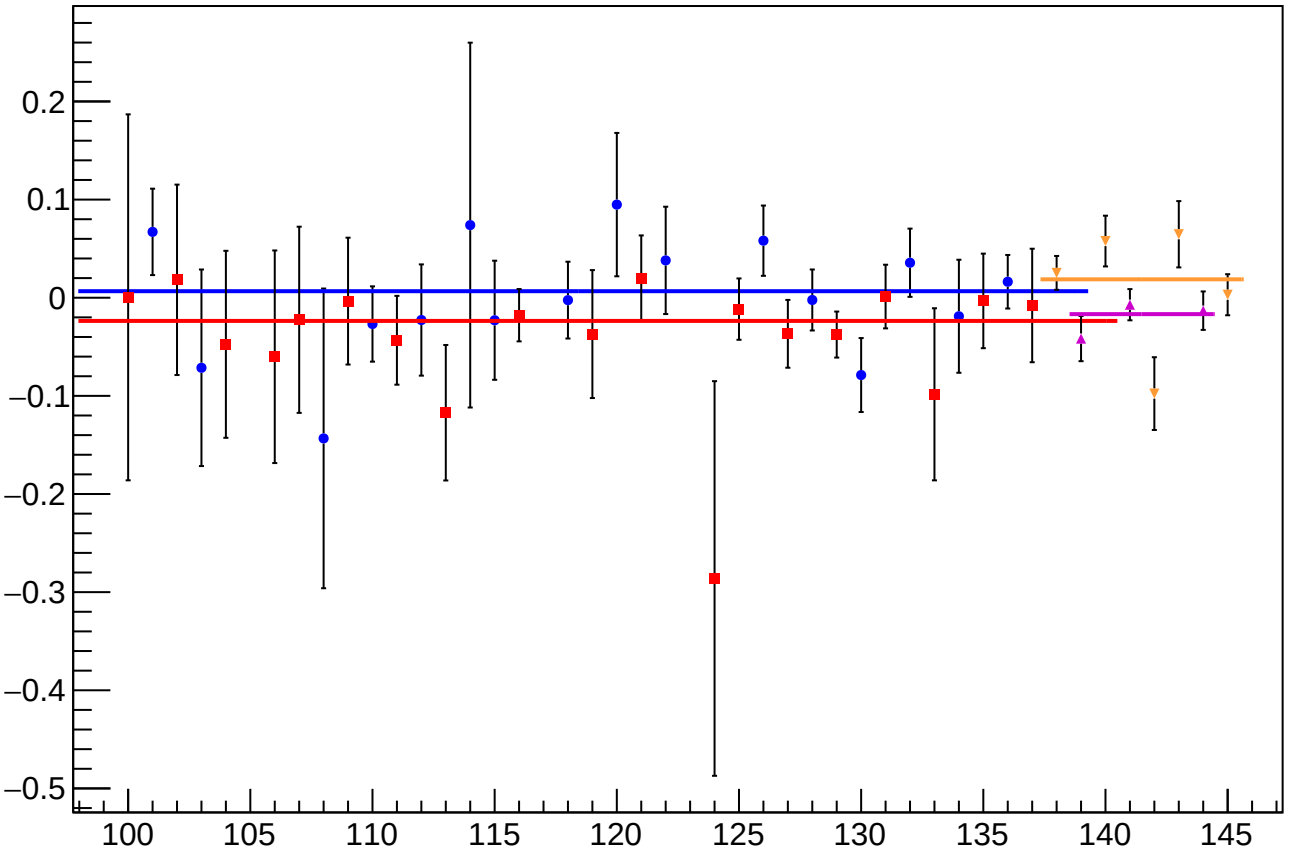
Right: -0.000+/-0.000 $\chi^2$/NDF: 41.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:21.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 44.3/42


asym_sam_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2082875.3/15
Left Out: 0.000+/-0.000 χ²/NDF:159439.3/4
Right Out: 0.000+/-0.000 χ²/NDF: 1646197.6/18
Left In: 0.000+/-0.000 χ²/NDF:115696.8/2
Left: 0.000+/-0.000 χ²/NDF: 277521.0/7
Right: 0.000+/-0.000 χ²/NDF: 3874616.1/34
In: 0.000+/-0.000 χ²/NDF:2672015.2/18
Out: 0.000+/-0.000 χ²/NDF:3033305.8/23
All: 0.000+/-0.000 χ²/NDF: 5713636.5/42




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.019+/-0.011 $\chi^2$/NDF:14.7/4

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.017+/-0.011 $\chi^2$/NDF:1.6/2

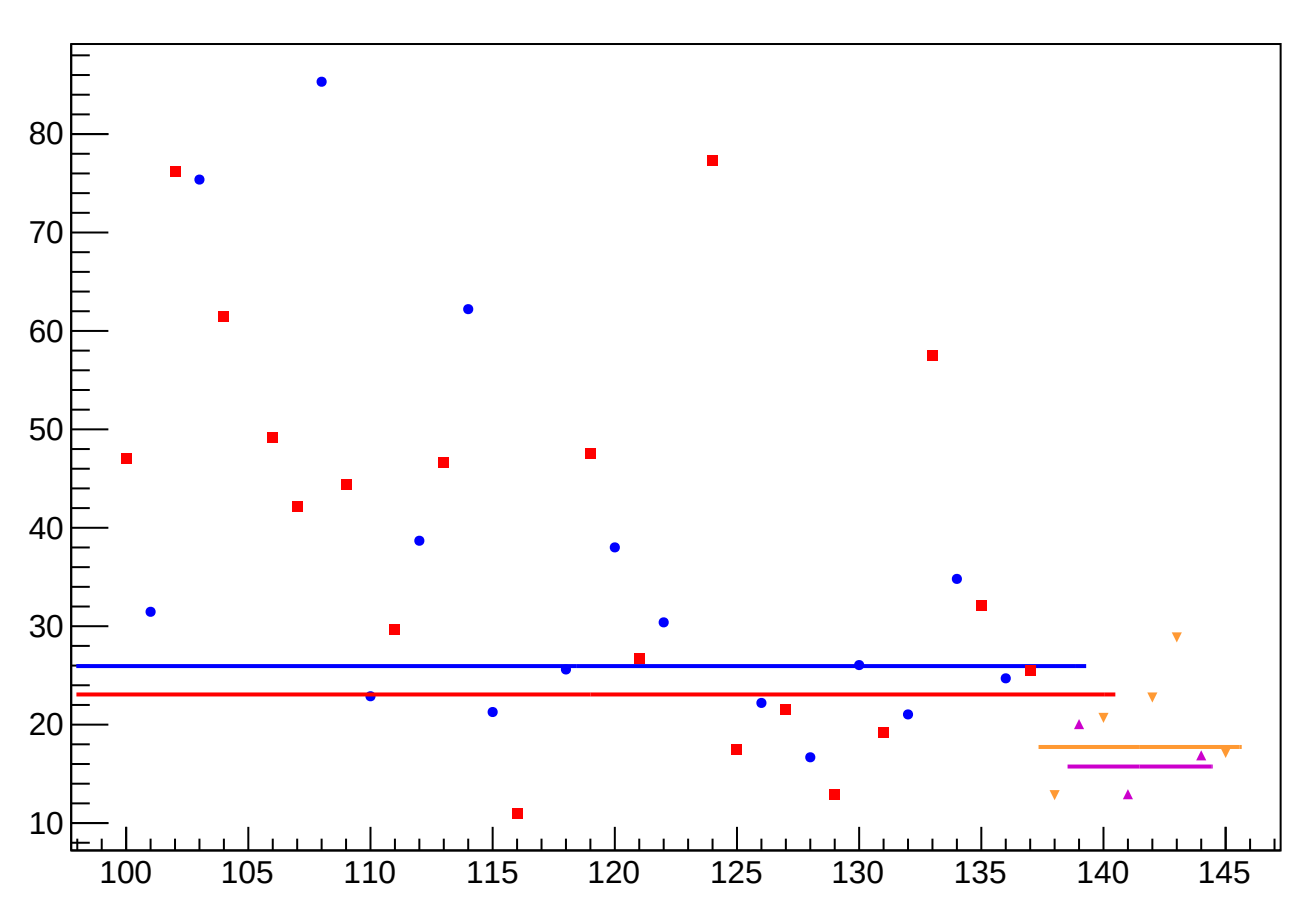
Left: 0.001+/-0.008 $\chi^2$/NDF: 21.7/7

Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.005+/-0.008 $\chi^2$/NDF:18.8/18

Out: -0.003+/-0.007 $\chi^2$/NDF:30.2/23

All: -0.004+/-0.005 $\chi^2$/NDF: 49.1/42




Right In: 25.949+/-0.008 $\chi^2$/NDF: 1381638.3/15

Left Out: 17.730+/-0.008 $\chi^2$/NDF:442713.5/4

Right Out: 23.065+/-0.007 $\chi^2$/NDF: 3360857.8/18

Left In: 15.744+/-0.008 $\chi^2$/NDF:139502.8/2

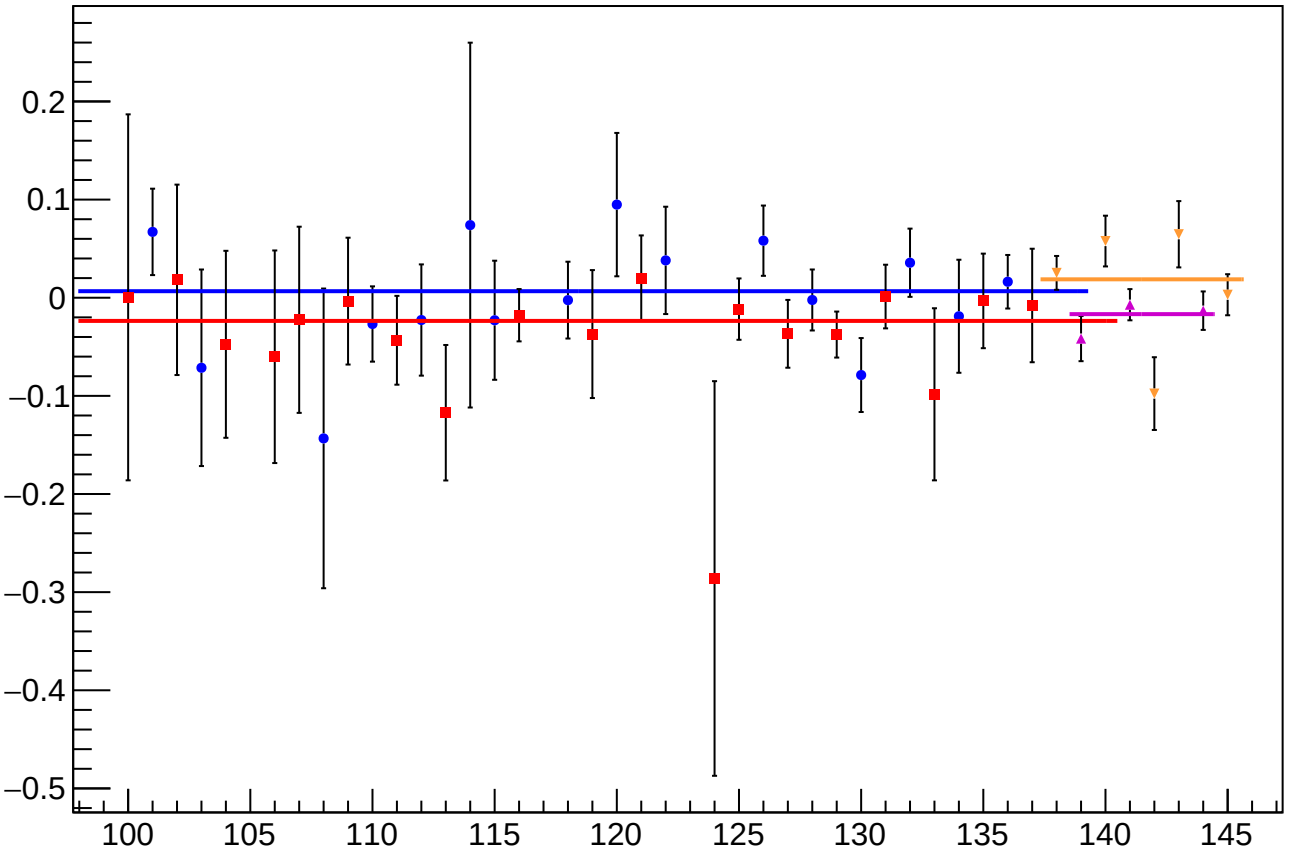
Left: 16.754+/-0.005 $\chi^2$/NDF: 616138.6/7

Right: 24.427+/-0.005 $\chi^2$/NDF: 4813744.3/34

In: 20.744+/-0.005 $\chi^2$/NDF:2383410.9/18

Out: 20.446+/-0.005 $\chi^2$/NDF:4056965.1/23

All: 20.590+/-0.004 $\chi^2$/NDF: 6441906.6/42




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.019+/-0.011 $\chi^2$/NDF:14.7/4

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.017+/-0.011 $\chi^2$/NDF:1.6/2

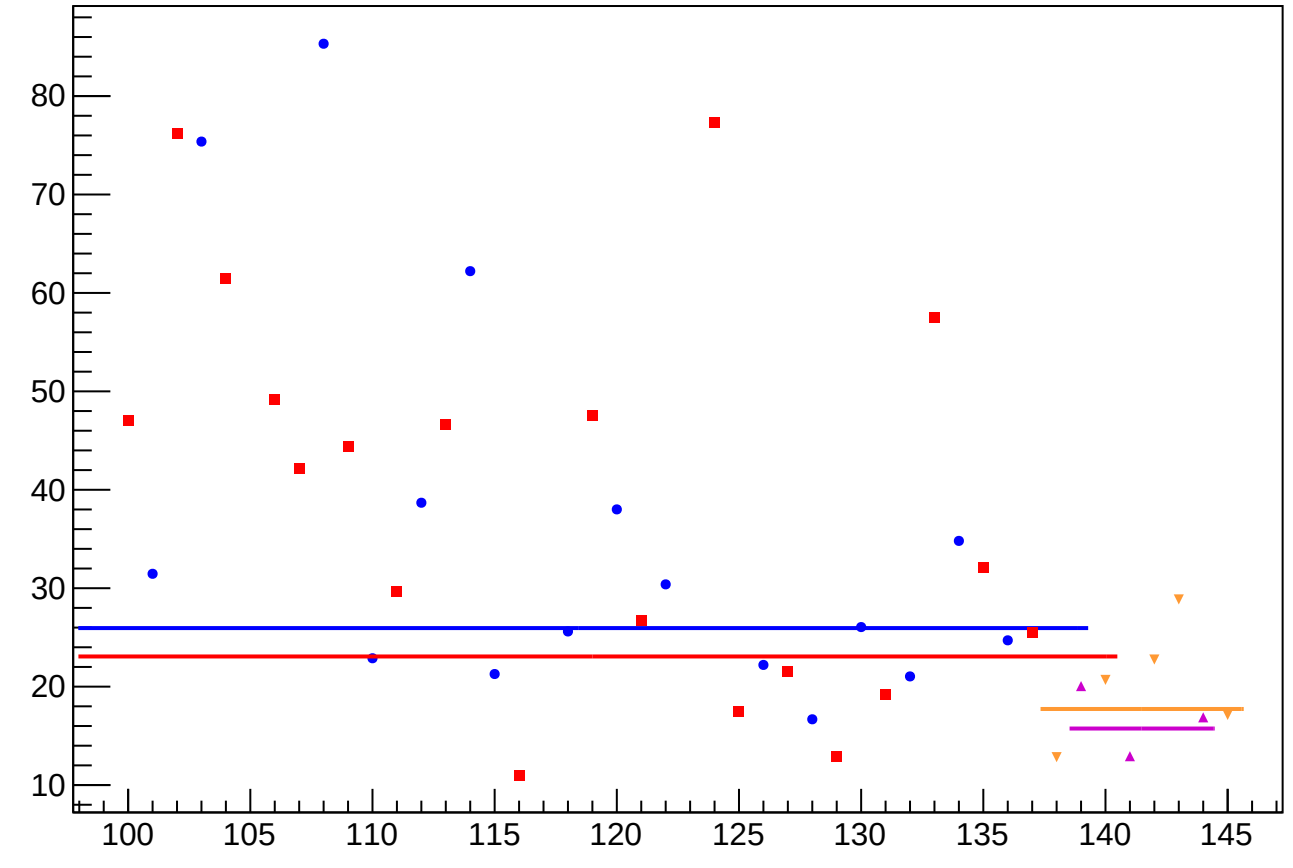
Left: 0.001+/-0.008 $\chi^2$/NDF: 21.7/7

Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.005+/-0.008 $\chi^2$/NDF:18.8/18

Out: -0.003+/-0.007 $\chi^2$/NDF:30.2/23

All: -0.004+/-0.005 $\chi^2$/NDF: 49.1/42




Right In: 25.949+/-0.008 $\chi^2$/NDF: 1381638.3/15

Left Out: 17.730+/-0.008 $\chi^2$/NDF:442713.5/4

Right Out: 23.065+/-0.007 $\chi^2$/NDF: 3360857.8/18

Left In: 15.744+/-0.008 $\chi^2$/NDF:139502.8/2

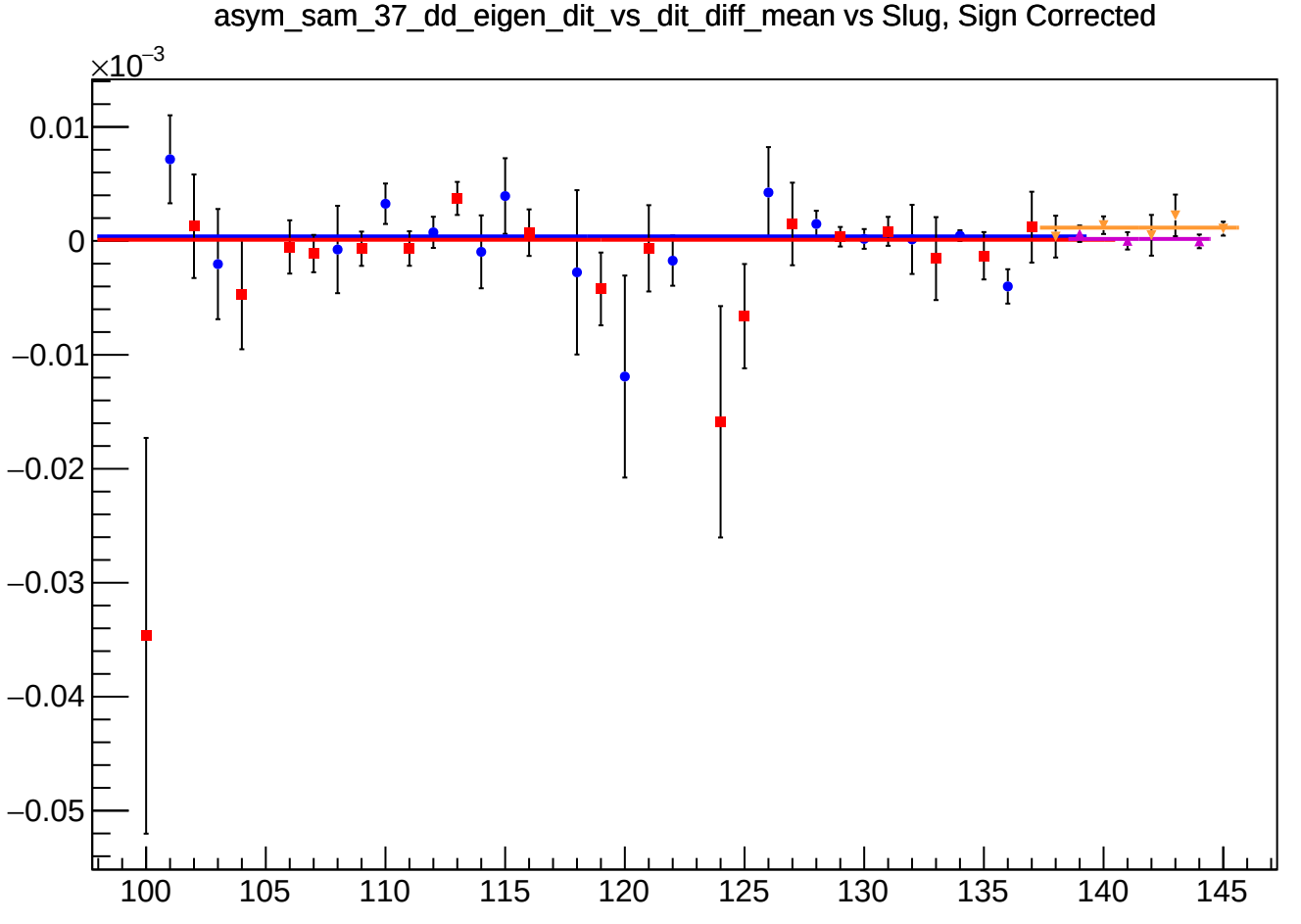
Left: 16.754+/-0.005 $\chi^2$/NDF: 616138.6/7

Right: 24.427+/-0.005 $\chi^2$/NDF: 4813744.3/34

In: 20.744+/-0.005 $\chi^2$/NDF:2383410.9/18

Out: 20.446+/-0.005 $\chi^2$/NDF:4056965.1/23

All: 20.590+/-0.004 $\chi^2$/NDF: 6441906.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.6/2

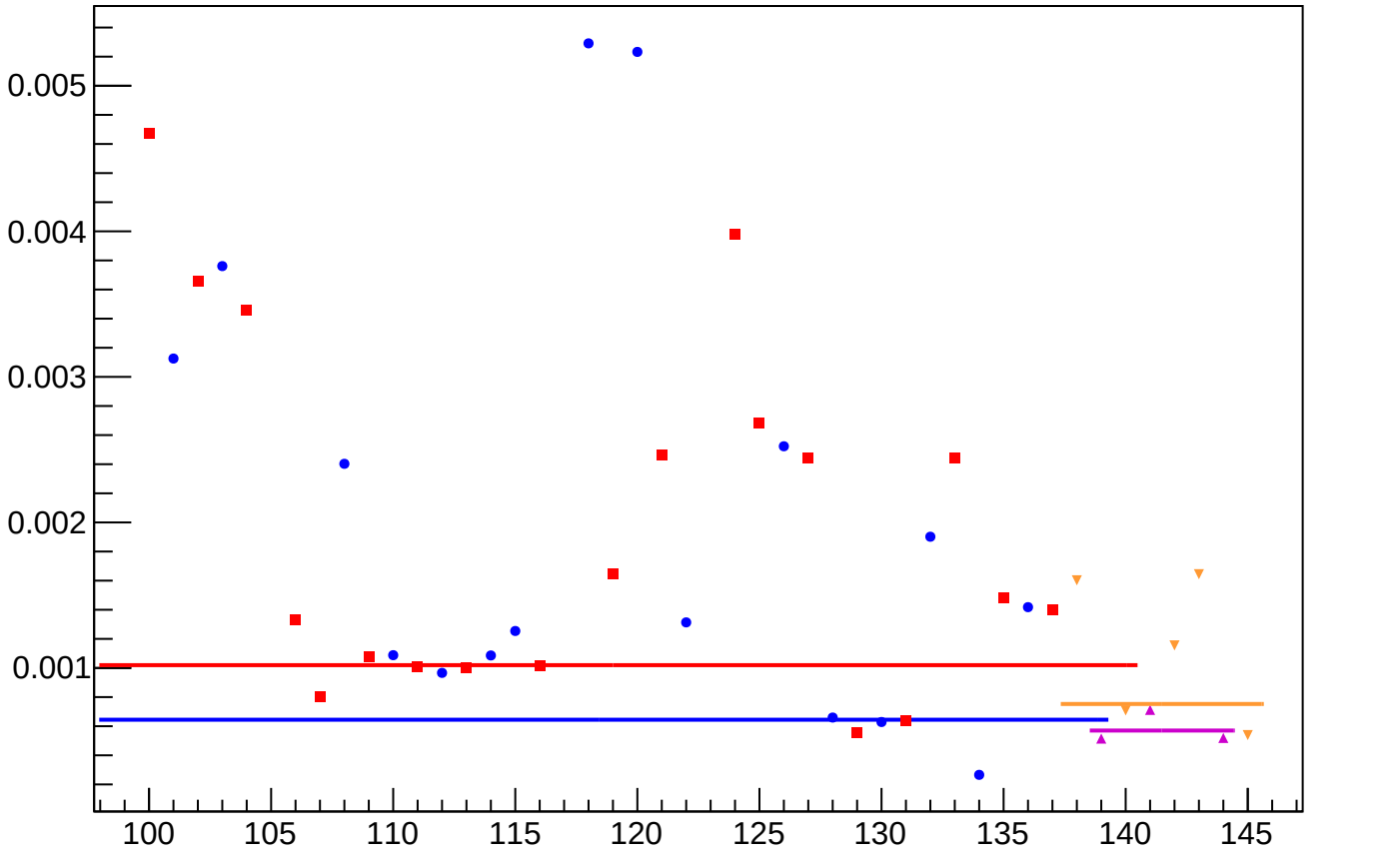
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.2/7

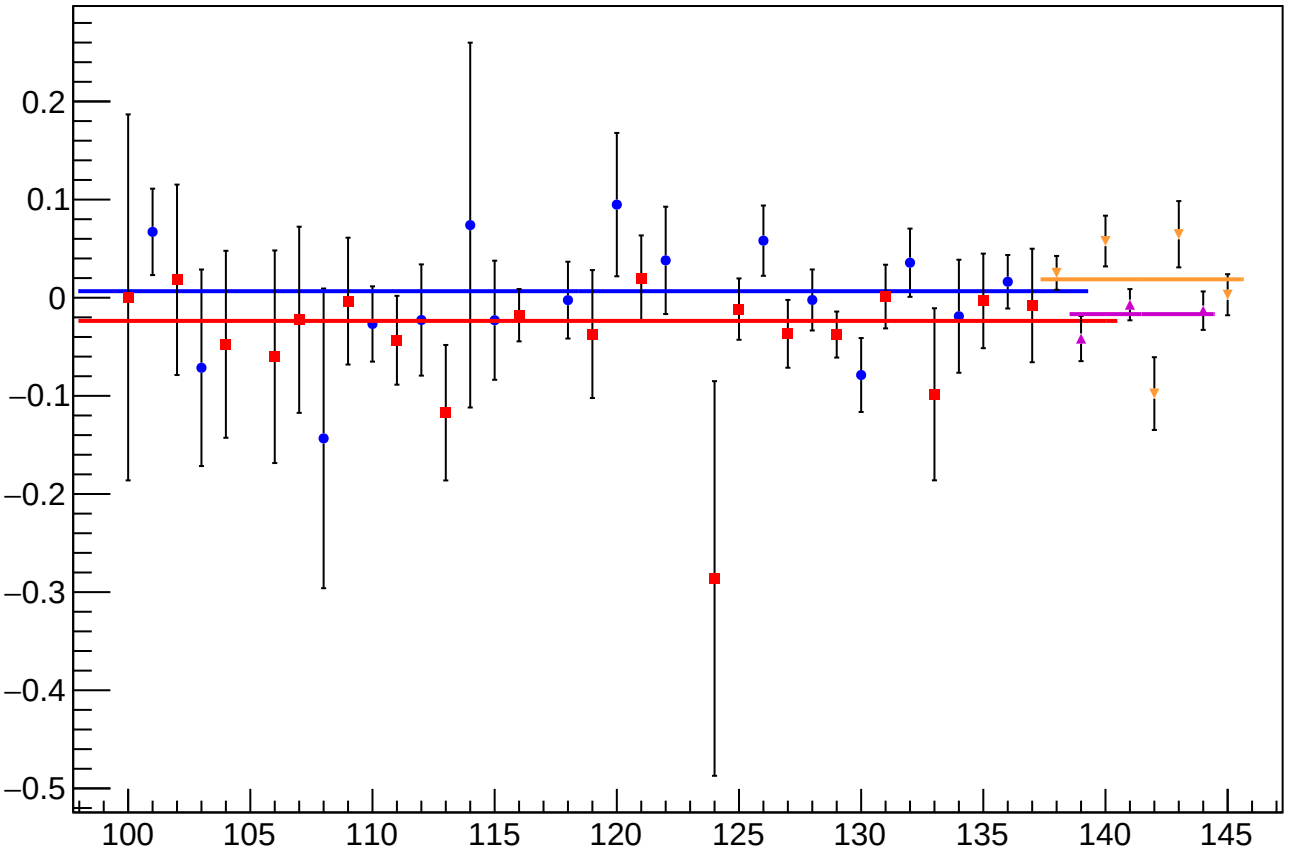
Right: 0.000+/-0.000 $\chi^2$/NDF: 41.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:21.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:24.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 46.4/42


asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.005
0.004
0.003
0.002
0.001
100
105
110
115
120
125
130
135
140
145
Right In: 0.001+/-0.000 χ²/NDF: 6575652.3/15
Left Out: 0.001+/-0.000 χ²/NDF:1258264.4/4
Right Out: 0.001+/-0.000 χ²/NDF: 3662501.2/18
Left In: 0.001+/-0.000 χ²/NDF:96082.9/2
Left: 0.001+/-0.000 χ²/NDF: 1546930.9/7
Right: 0.001+/-0.000 χ²/NDF: 11121544.1/34
In: 0.001+/-0.000 χ²/NDF:6712455.7/18
Out: 0.001+/-0.000 χ²/NDF:5283088.6/23
All: 0.001+/-0.000 χ²/NDF: 12875835.2/42




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.019+/-0.011 $\chi^2$/NDF:14.7/4

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.017+/-0.011 $\chi^2$/NDF:1.6/2

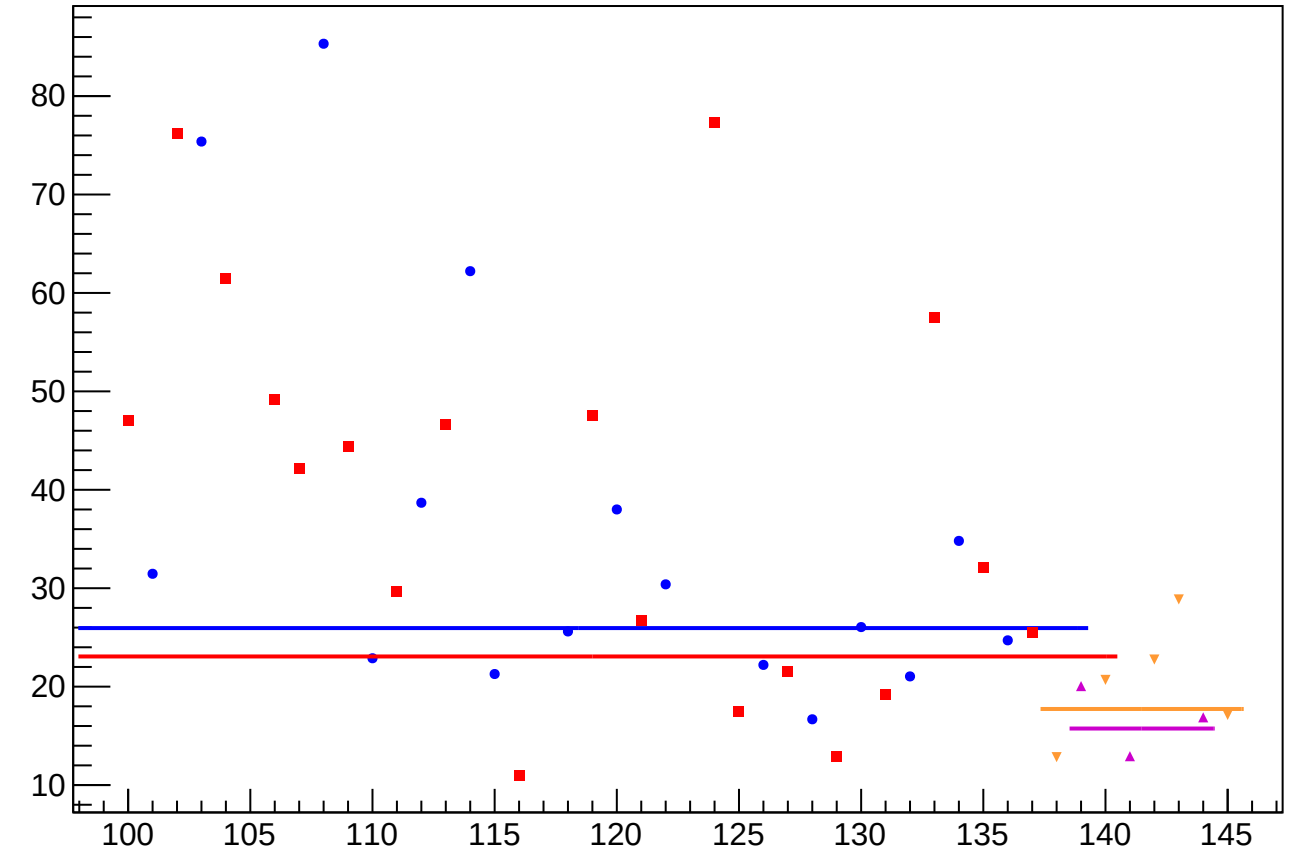
Left: 0.001+/-0.008 $\chi^2$/NDF: 21.7/7

Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.005+/-0.008 $\chi^2$/NDF:18.8/18

Out: -0.003+/-0.007 $\chi^2$/NDF:30.2/23

All: -0.004+/-0.005 $\chi^2$/NDF: 49.1/42




Right In: 25.950+/-0.008 $\chi^2$/NDF: 1381591.4/15

Left Out: 17.731+/-0.008 $\chi^2$/NDF:442703.9/4

Right Out: 23.066+/-0.007 $\chi^2$/NDF: 3360688.5/18

Left In: 15.744+/-0.008 $\chi^2$/NDF:139462.1/2

Left: 16.754+/-0.005 $\chi^2$/NDF: 616098.5/7

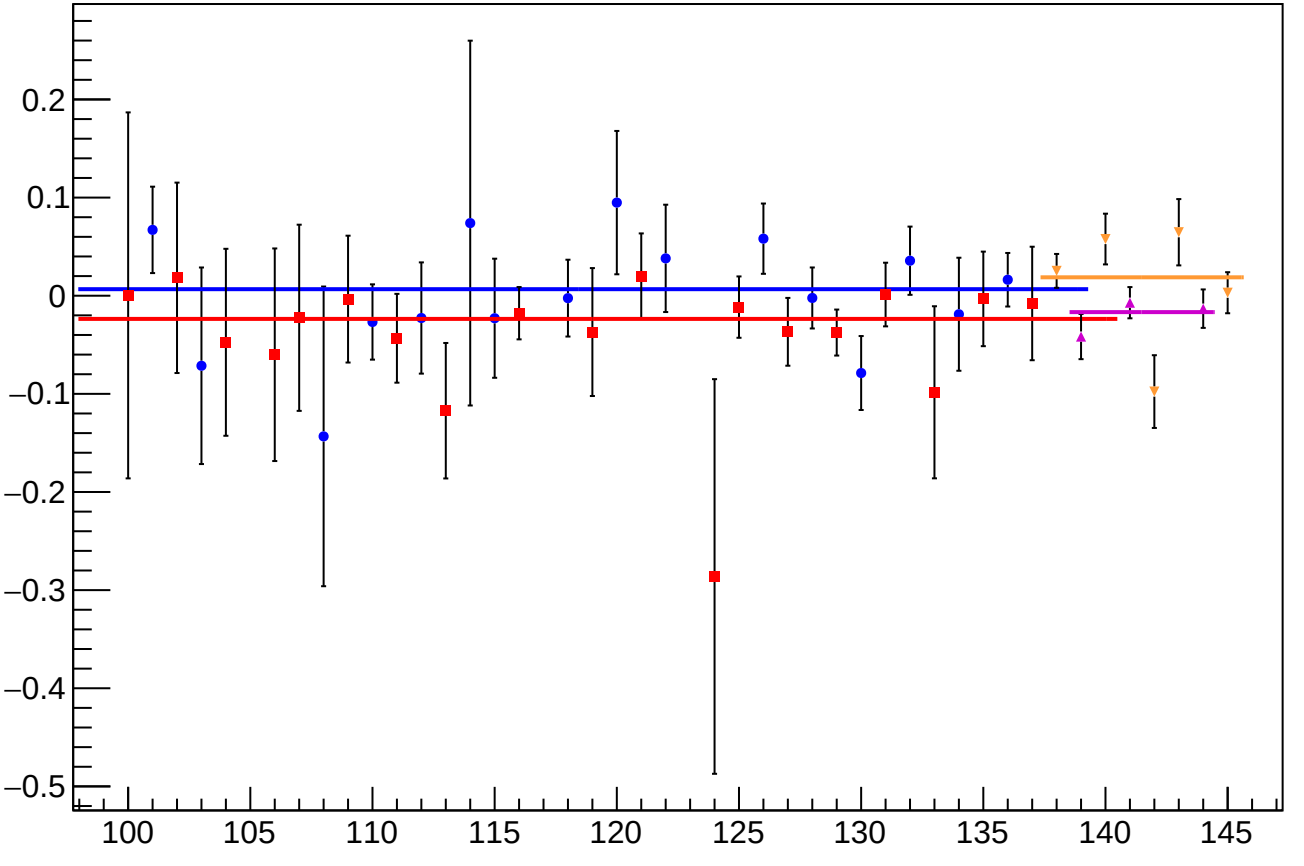
Right: 24.428+/-0.005 $\chi^2$/NDF: 4813518.6/34

In: 20.745+/-0.005 $\chi^2$/NDF:2383362.5/18

Out: 20.446+/-0.005 $\chi^2$/NDF:4056790.2/23

All: 20.590+/-0.004 $\chi^2$/NDF: 6441680.4/42

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.007+/-0.011 $\chi^2$/NDF: 15.0/15

Left Out: 0.019+/-0.011 $\chi^2$/NDF:14.7/4

Right Out: -0.024+/-0.011 $\chi^2$/NDF: 7.5/18

Left In: -0.017+/-0.011 $\chi^2$/NDF:1.6/2

Left: 0.001+/-0.008 $\chi^2$/NDF: 21.7/7

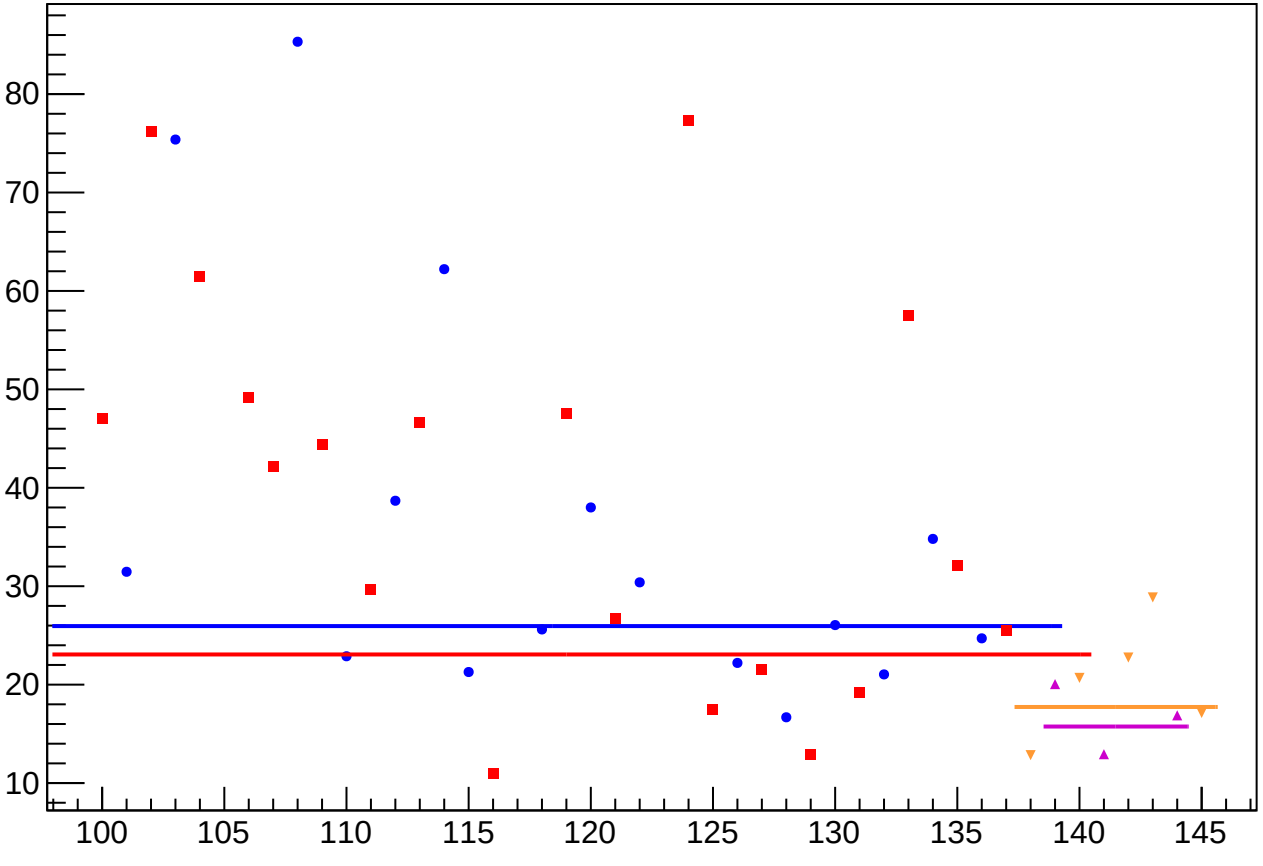
Right: -0.009+/-0.008 $\chi^2$/NDF: 26.4/34

In: -0.005+/-0.008 $\chi^2$/NDF:18.8/18

Out: -0.003+/-0.007 $\chi^2$/NDF:30.2/23

All: -0.004+/-0.005 $\chi^2$/NDF: 49.1/42

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: 17.731+/-0.008 $\chi^2$/NDF:442703.9/4

Right Out: 23.066+/-0.007 $\chi^2$/NDF: 3360688.5/18

Left In: 15.744+/-0.008 $\chi^2$/NDF:139462.1/2

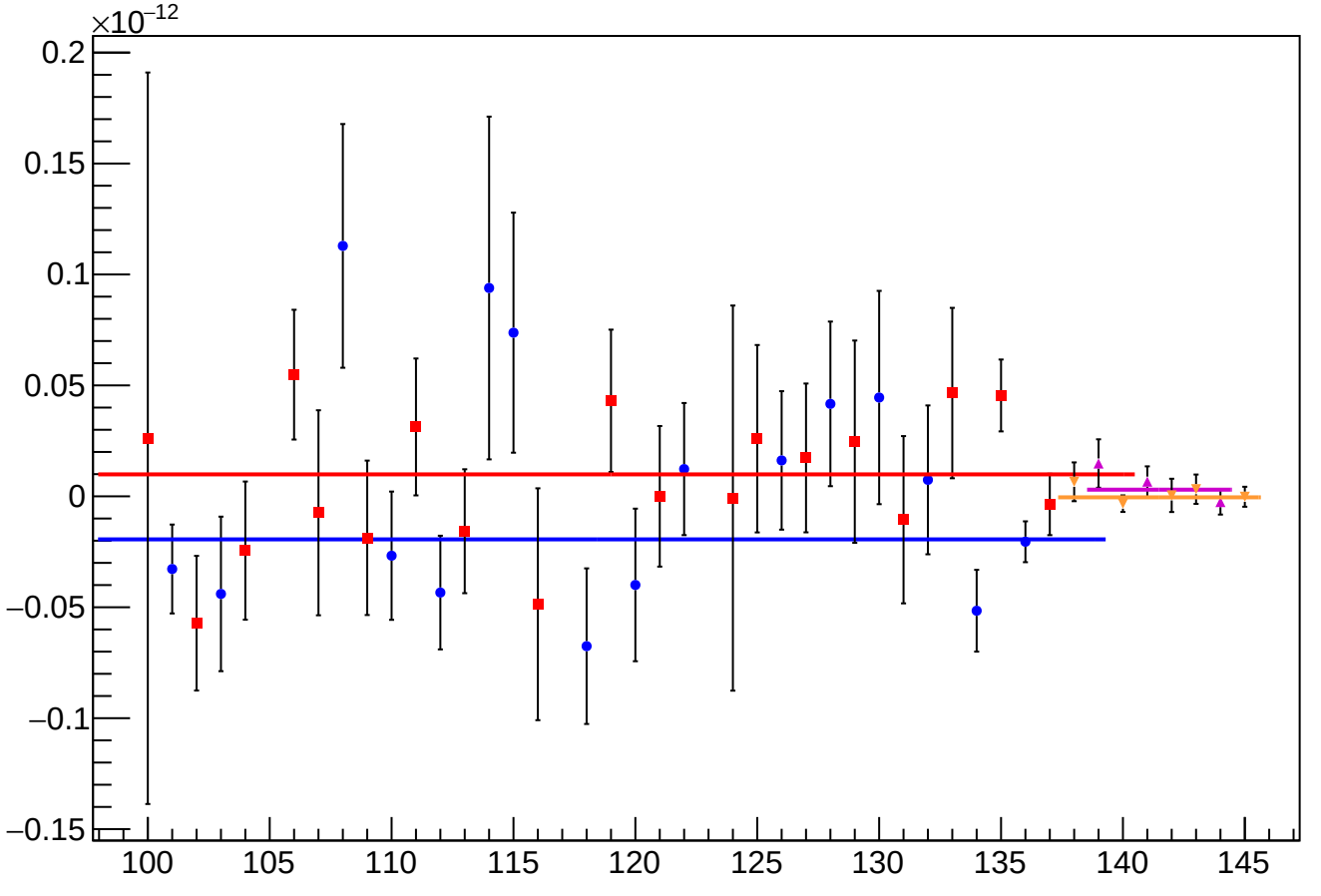
Left: 16.754+/-0.005 $\chi^2$/NDF: 616098.5/7

Right: 24.428+/-0.005 $\chi^2$/NDF: 4813518.6/34

In: 20.745+/-0.005 $\chi^2$/NDF:2383362.5/18

Out: 20.446+/-0.005 $\chi^2$/NDF:4056790.2/23

All: 20.590+/-0.004 $\chi^2$/NDF: 6441680.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.4/2

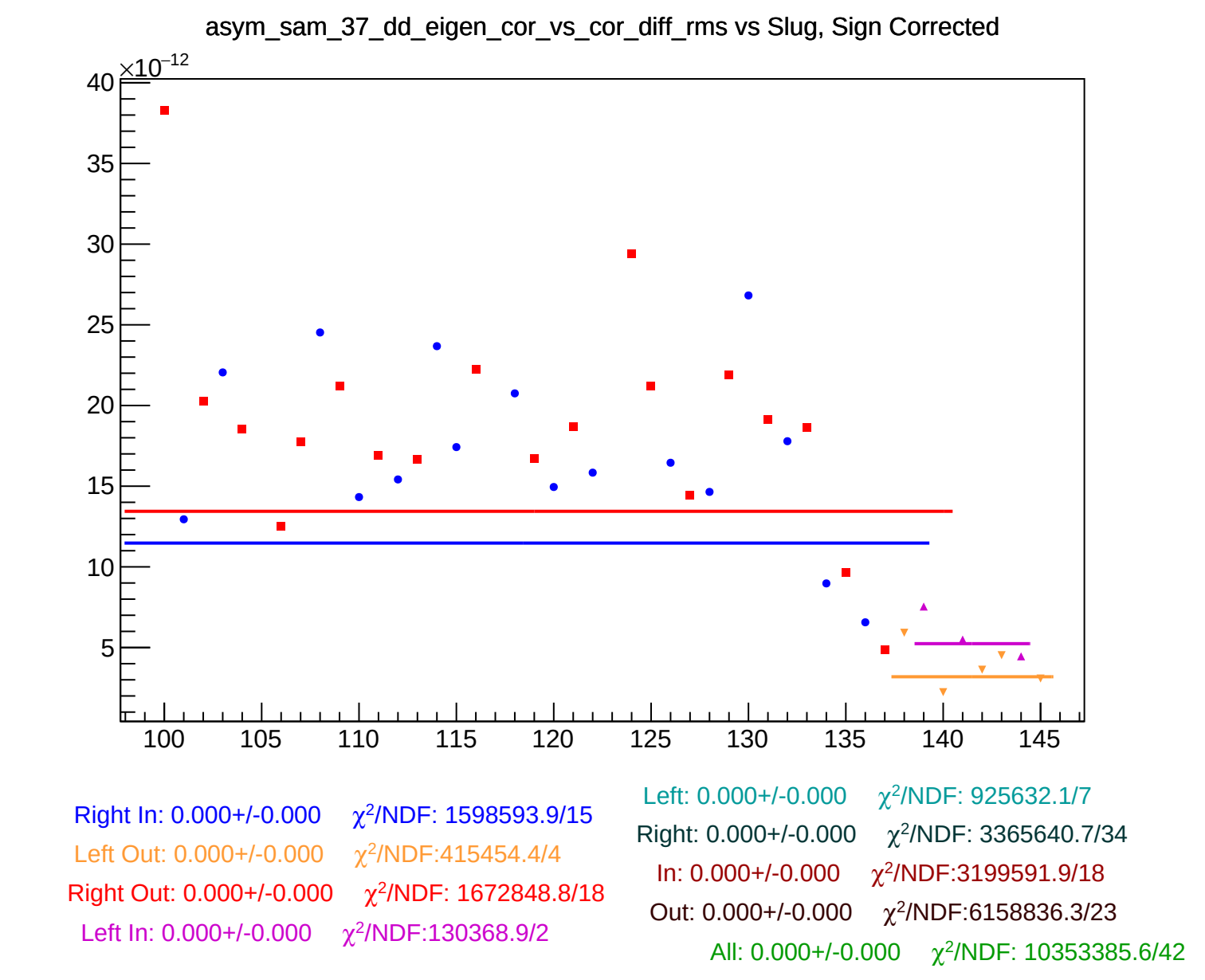
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.5/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 56.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:37.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:24.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 62.9/42


asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻¹²
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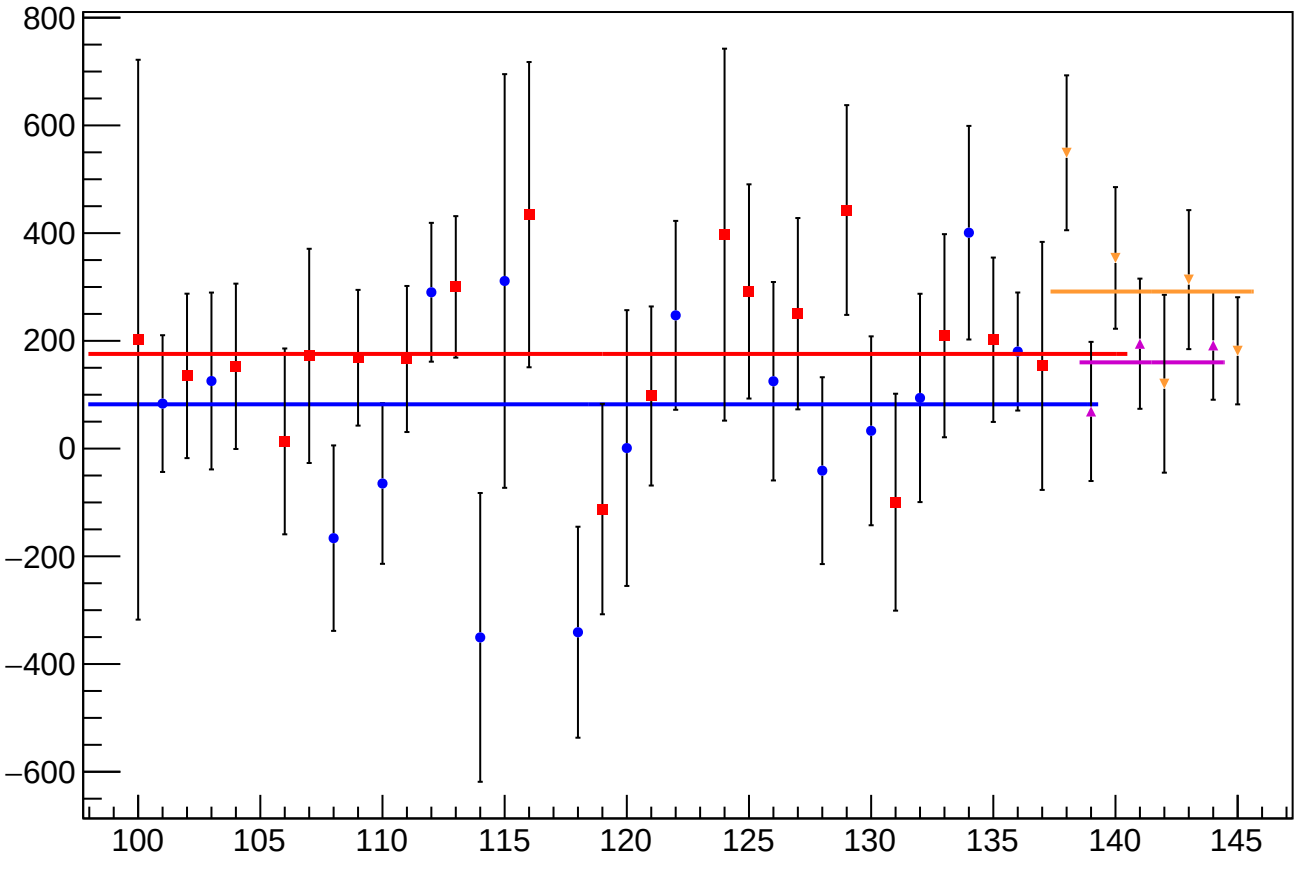
Right In: 0.000+/-0.000 χ²/NDF: 1598593.9/15
Left Out: 0.000+/-0.000 χ²/NDF:415454.4/4
Right Out: 0.000+/-0.000 χ²/NDF: 1672848.8/18
Left In: 0.000+/-0.000 χ²/NDF:130368.9/2
Left: 0.000+/-0.000 χ²/NDF: 925632.1/7
Right: 0.000+/-0.000 χ²/NDF: 3365640.7/34
In: 0.000+/-0.000 χ²/NDF:3199591.9/18
Out: 0.000+/-0.000 χ²/NDF:6158836.3/23
All: 0.000+/-0.000 χ²/NDF: 10353385.6/42




Right In: 82.196+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 291.564+/-57.354 $\chi^2$/NDF:5.8/4

Right Out: 175.732+/-40.673 $\chi^2$/NDF: 9.9/18

Left In: 160.087+/-66.433 $\chi^2$/NDF:0.7/2

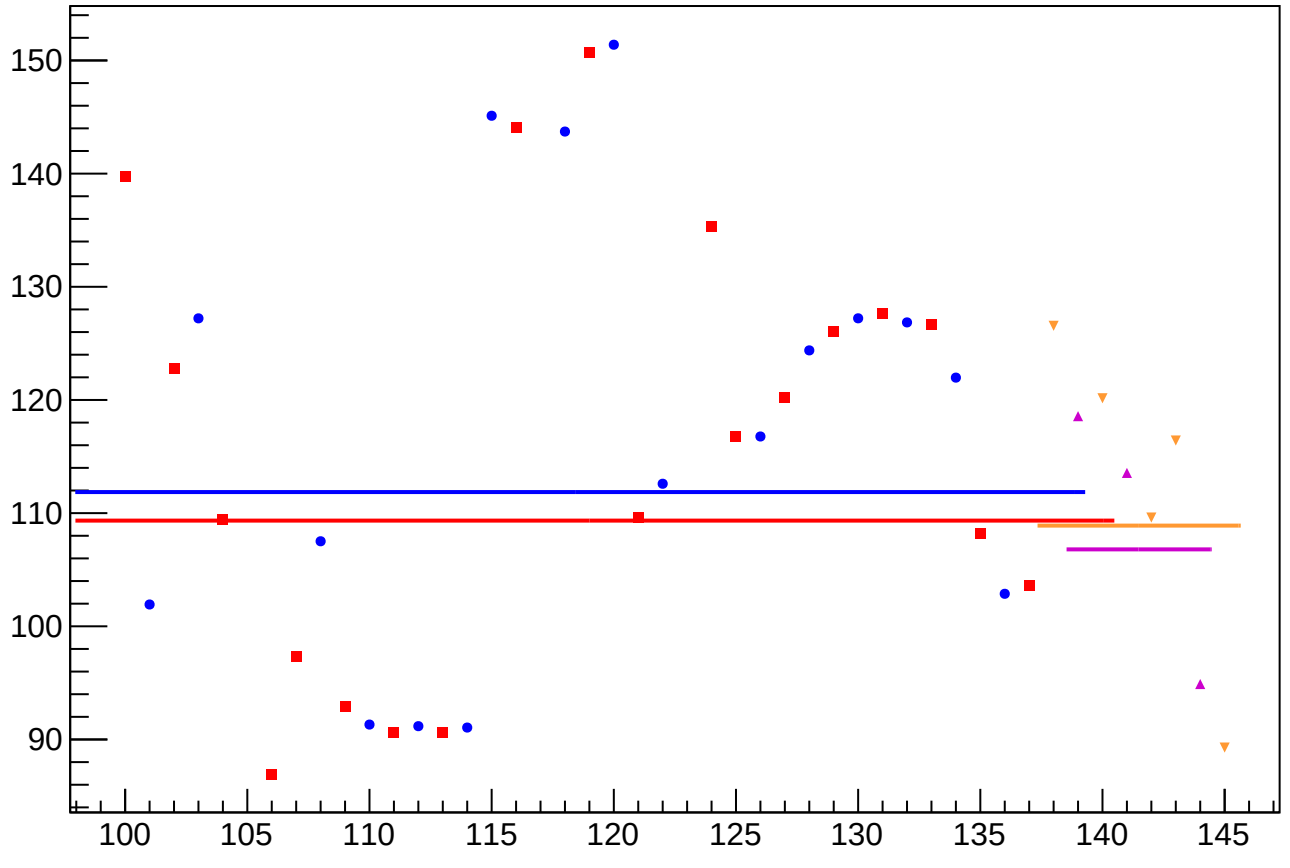
Left: 235.416+/-43.413 $\chi^2$/NDF: 8.7/7

Right: 130.613+/-29.263 $\chi^2$/NDF: 30.8/34

In: 104.540+/-35.580 $\chi^2$/NDF:20.0/18

Out: 214.491+/-33.177 $\chi^2$/NDF:18.3/23

All: 163.354+/-24.265 $\chi^2$/NDF: 43.5/42




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306023.8/15

Left Out: 108.898+/-0.041 $\chi^2$/NDF:129391.4/4

Right Out: 109.340+/-0.029 $\chi^2$/NDF: 367219.9/18

Left In: 106.797+/-0.047 $\chi^2$/NDF:50656.8/2

Left: 108.001+/-0.031 $\chi^2$/NDF: 181194.0/7

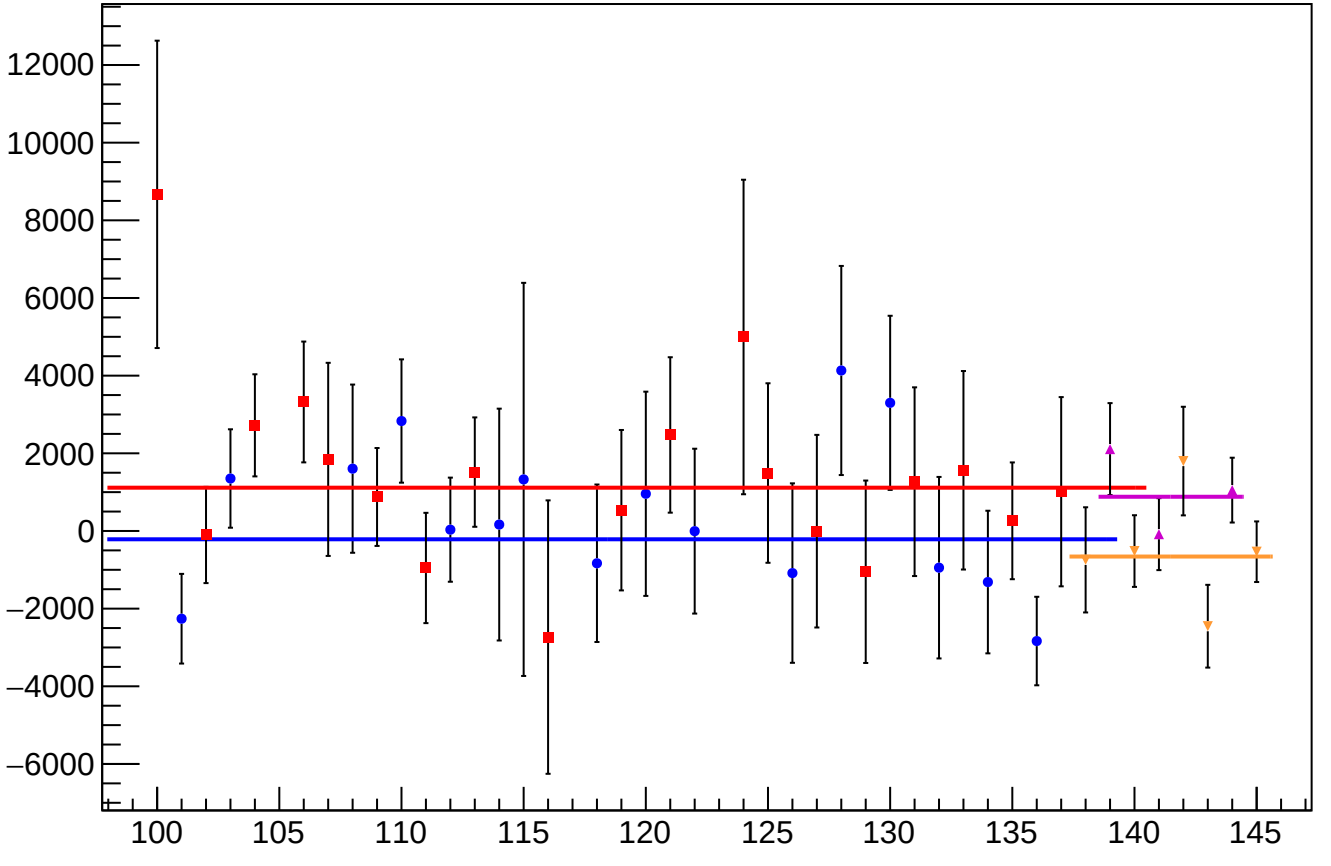
Right: 110.557+/-0.021 $\chi^2$/NDF: 676952.3/34

In: 110.409+/-0.025 $\chi^2$/NDF:364970.5/18

Out: 109.192+/-0.023 $\chi^2$/NDF:496690.4/23

All: 109.758+/-0.017 $\chi^2$/NDF: 862912.3/42

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: -658.449+/-458.679 $\chi^2$/NDF:6.0/4

Right Out: 1114.700+/-423.039 $\chi^2$/NDF: 14.5/18

Left In: 881.094+/-549.253 $\chi^2$/NDF:2.2/2

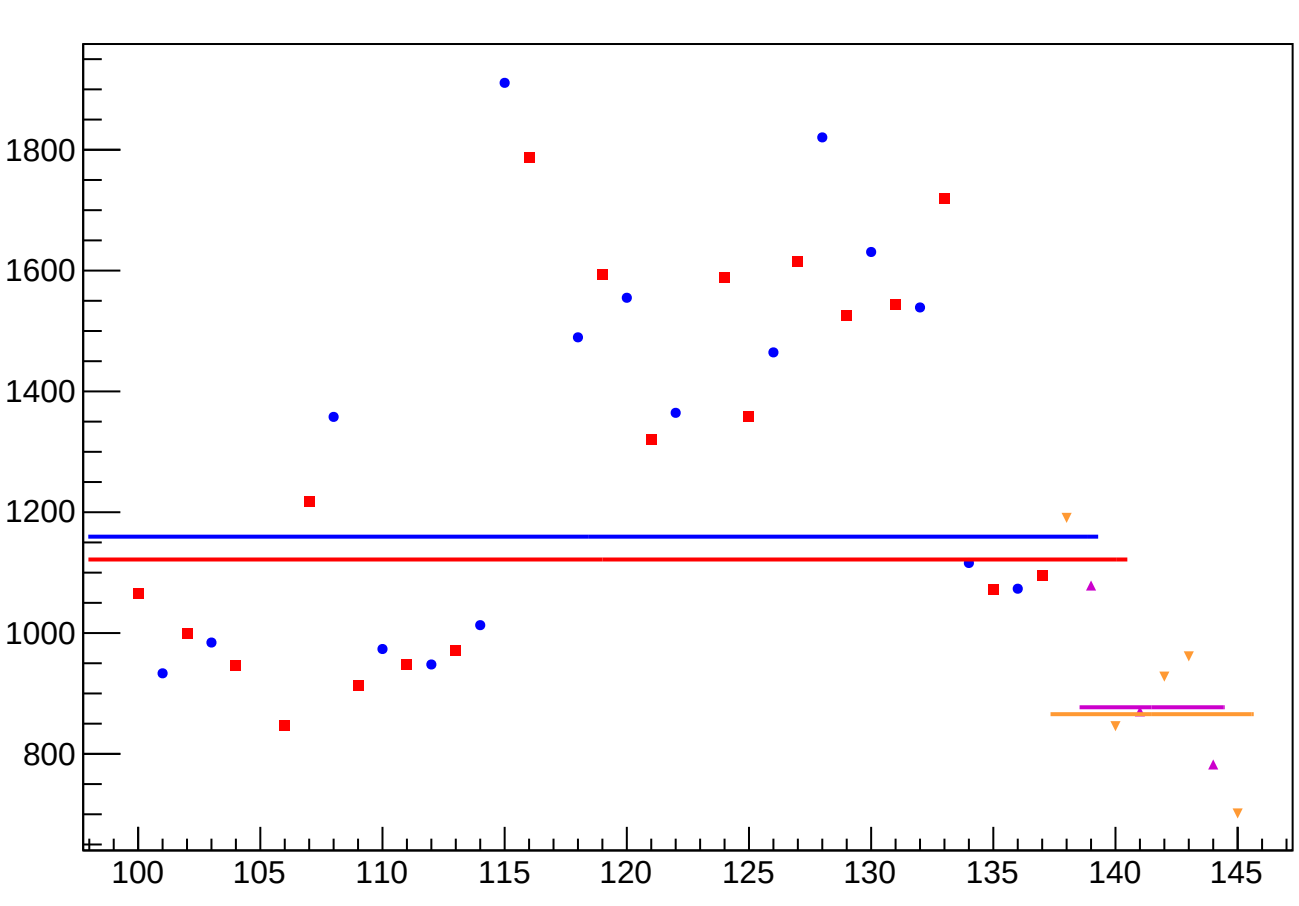
Left: -25.915+/-352.061 $\chi^2$/NDF: 12.8/7

Right: 482.307+/-306.263 $\chi^2$/NDF: 39.7/34

In: 218.633+/-345.273 $\chi^2$/NDF:25.0/18

Out: 299.681+/-310.971 $\chi^2$/NDF:28.6/23

All: 263.382+/-231.068 $\chi^2$/NDF: 53.7/42




Right In: 1159.567+/-0.314 $\chi^2$/NDF: 683693.3/15

Left Out: 865.707+/-0.324 $\chi^2$/NDF:224839.3/4

Right Out: 1121.752+/-0.299 $\chi^2$/NDF: 782273.3/18

Left In: 877.147+/-0.388 $\chi^2$/NDF:83835.0/2

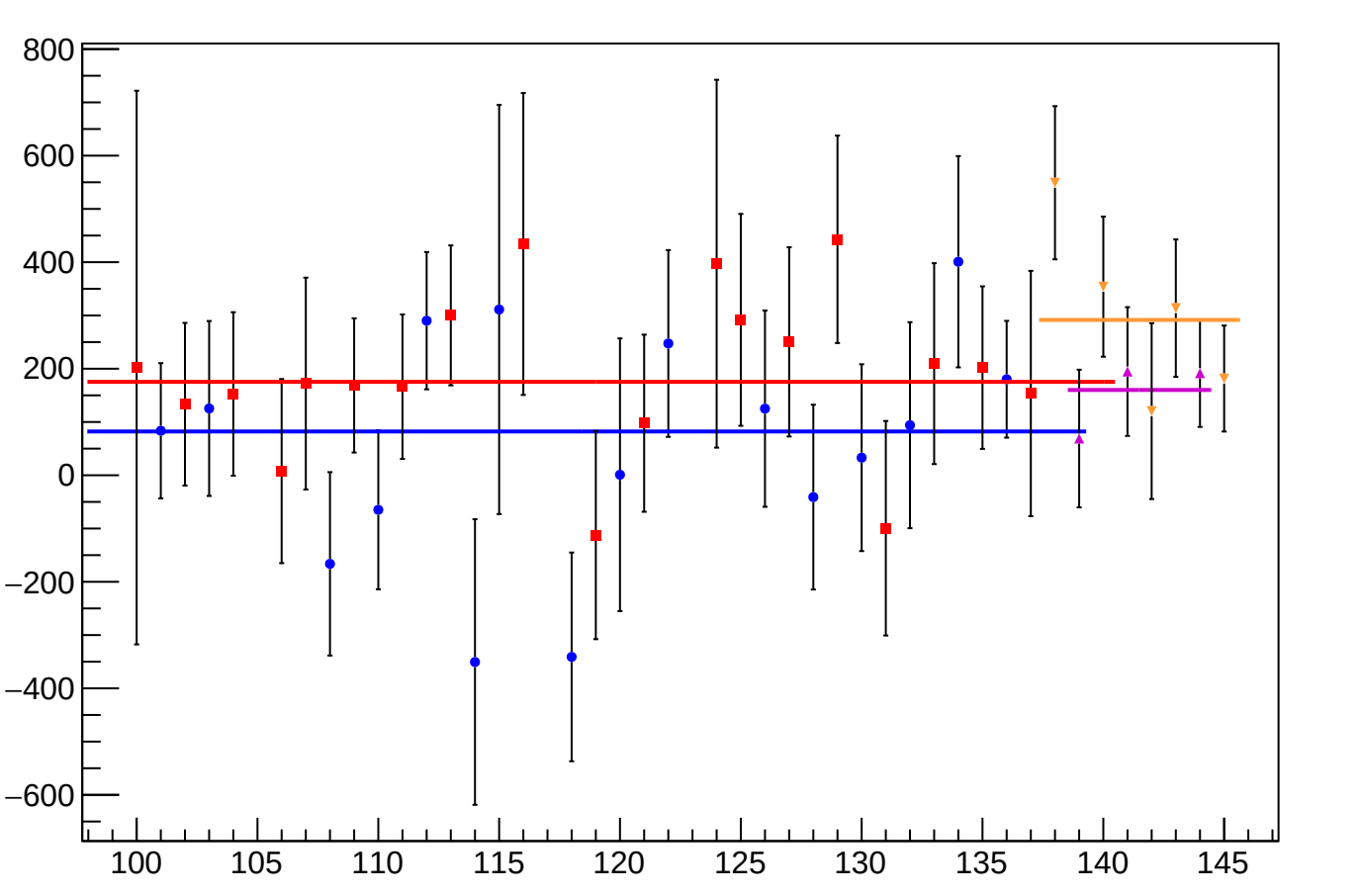
Left: 870.407+/-0.249 $\chi^2$/NDF: 309185.4/7

Right: 1139.747+/-0.217 $\chi^2$/NDF: 1473571.5/34

In: 1047.963+/-0.244 $\chi^2$/NDF:1087352.5/18

Out: 1004.062+/-0.220 $\chi^2$/NDF:1343874.6/23

All: 1023.724+/-0.163 $\chi^2$/NDF: 2449079.6/42




Right In: 82.185+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 291.578+/-57.354 $\chi^2$/NDF:5.8/4

Right Out: 175.338+/-40.678 $\chi^2$/NDF: 9.9/18

Left In: 160.097+/-66.433 $\chi^2$/NDF:0.7/2

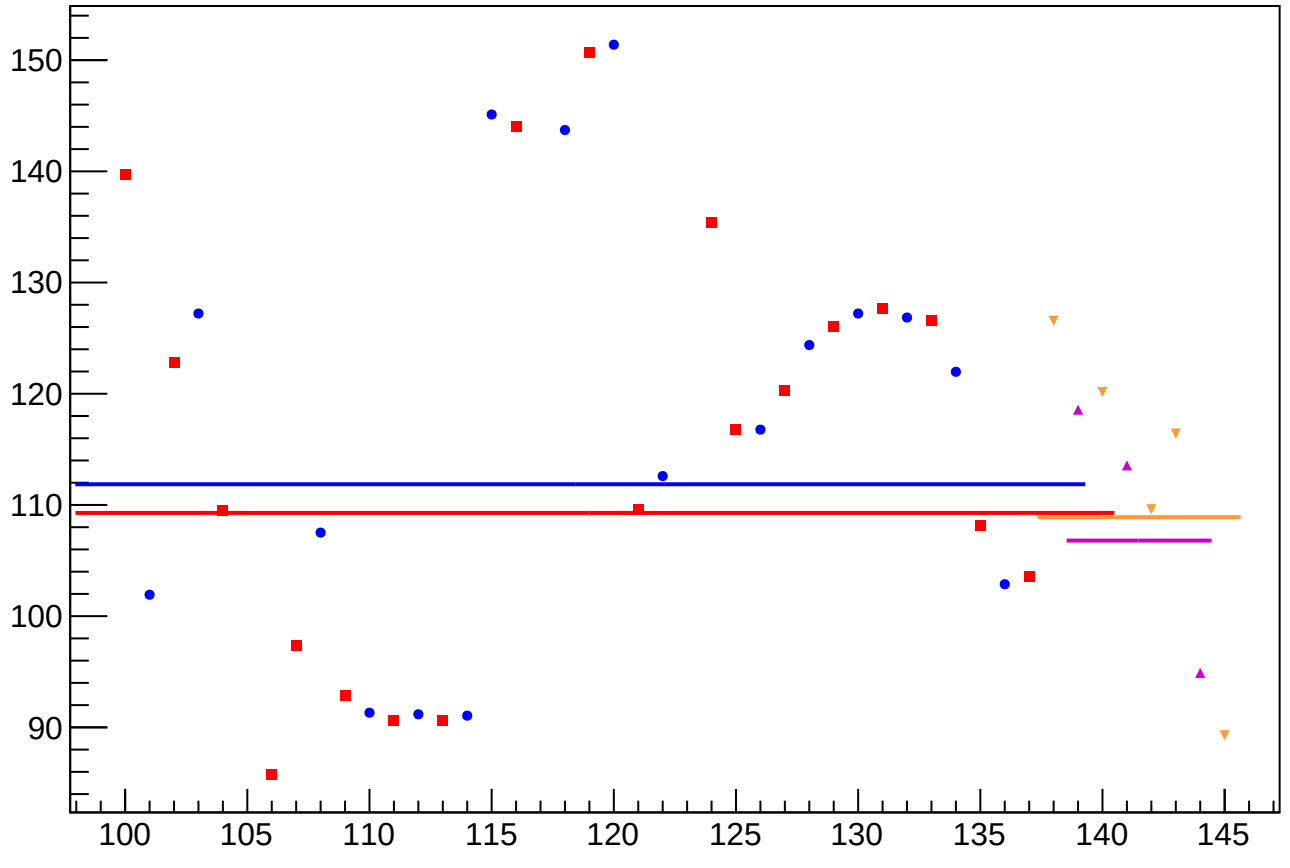
Left: 235.429+/-43.413 $\chi^2$/NDF: 8.7/7

Right: 130.398+/-29.265 $\chi^2$/NDF: 30.8/34

In: 104.534+/-35.581 $\chi^2$/NDF:20.0/18

Out: 214.241+/-33.180 $\chi^2$/NDF:18.4/23

All: 163.213+/-24.266 $\chi^2$/NDF: 43.5/42




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306025.0/15

Left Out: 108.898+/-0.041 $\chi^2$/NDF:129391.4/4

Right Out: 109.284+/-0.029 $\chi^2$/NDF: 370711.7/18

Left In: 106.797+/-0.047 $\chi^2$/NDF:50656.8/2

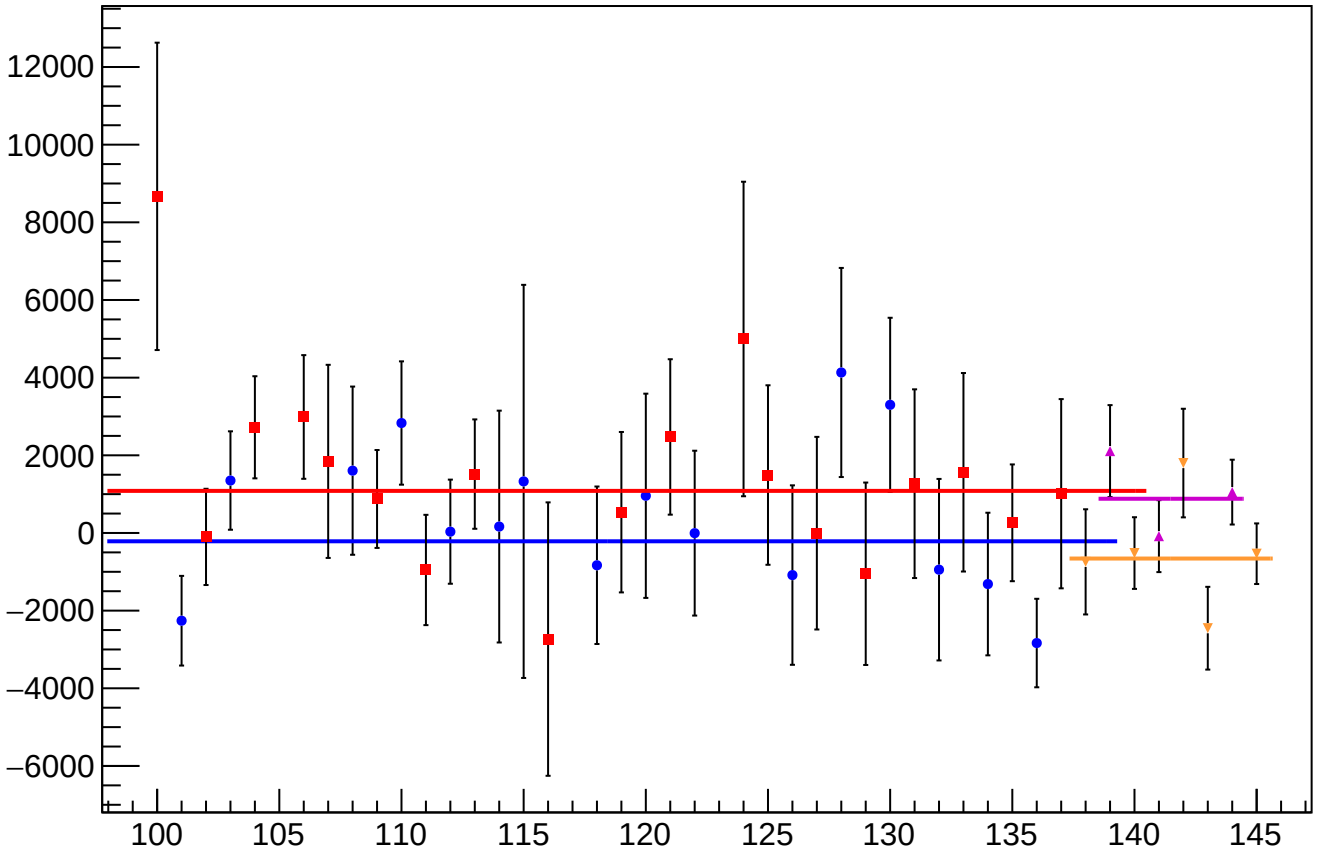
Left: 108.001+/-0.031 $\chi^2$/NDF: 181194.0/7

Right: 110.528+/-0.021 $\chi^2$/NDF: 680611.7/34

In: 110.409+/-0.025 $\chi^2$/NDF:364971.7/18

Out: 109.155+/-0.023 $\chi^2$/NDF:500163.4/23

All: 109.738+/-0.017 $\chi^2$/NDF: 866464.4/42




Right In: -214.278+/-443.965 $\chi^2$/NDF: 20.4/15

Left Out: -658.433+/-458.678 $\chi^2$/NDF:6.0/4

Right Out: 1083.943+/-423.774 $\chi^2$/NDF: 13.9/18

Left In: 881.107+/-549.253 $\chi^2$/NDF:2.2/2

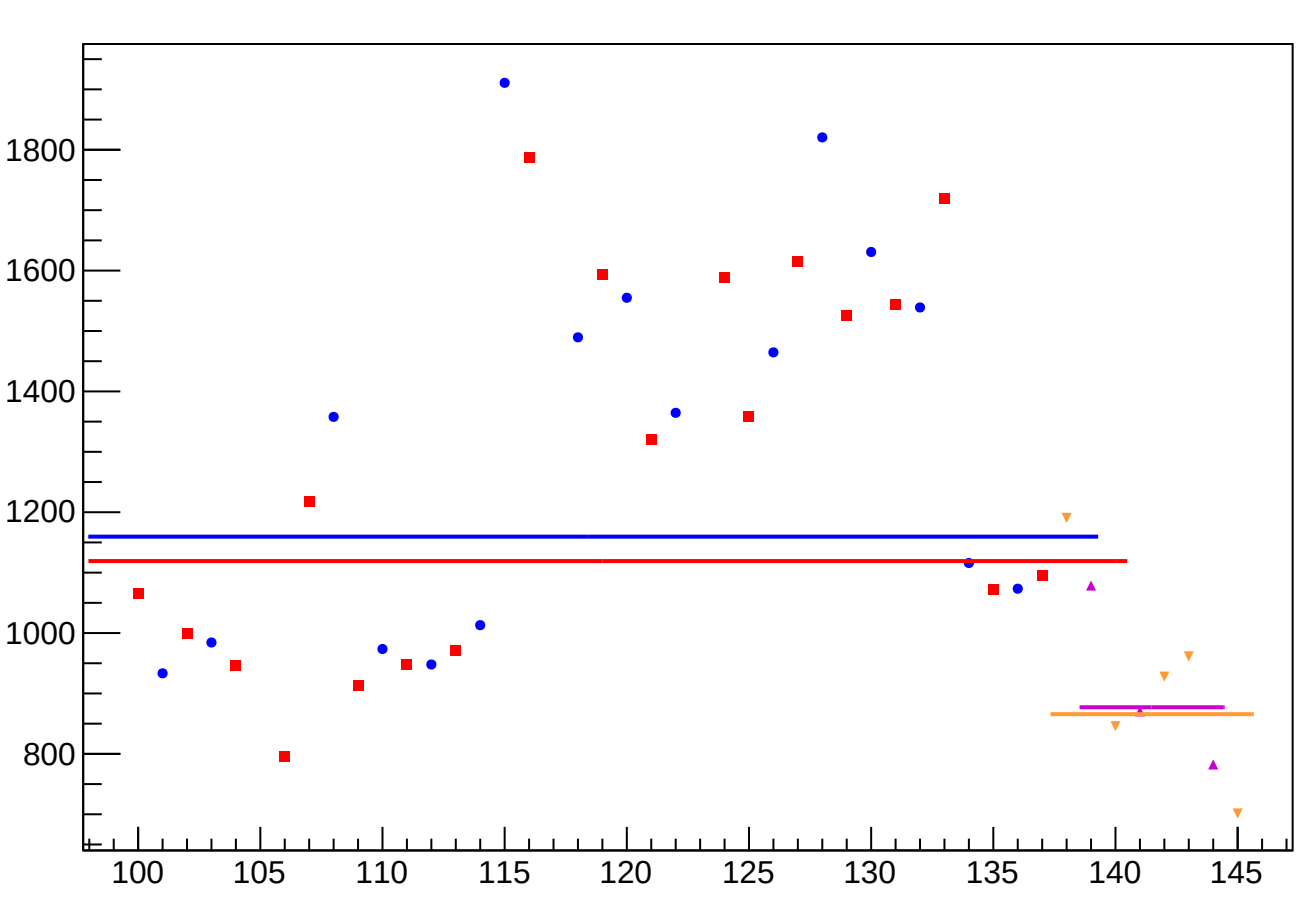
Left: -25.901+/-352.061 $\chi^2$/NDF: 12.8/7

Right: 465.023+/-306.543 $\chi^2$/NDF: 38.8/34

In: 218.587+/-345.275 $\chi^2$/NDF:25.0/18

Out: 281.564+/-311.263 $\chi^2$/NDF:27.7/23

All: 253.329+/-231.188 $\chi^2$/NDF: 52.7/42




Right In: 1159.576+/-0.314 $\chi^2$/NDF: 683662.2/15

Left Out: 865.706+/-0.324 $\chi^2$/NDF:224840.6/4

Right Out: 1119.156+/-0.300 $\chi^2$/NDF: 803154.6/18

Left In: 877.147+/-0.388 $\chi^2$/NDF:83833.7/2

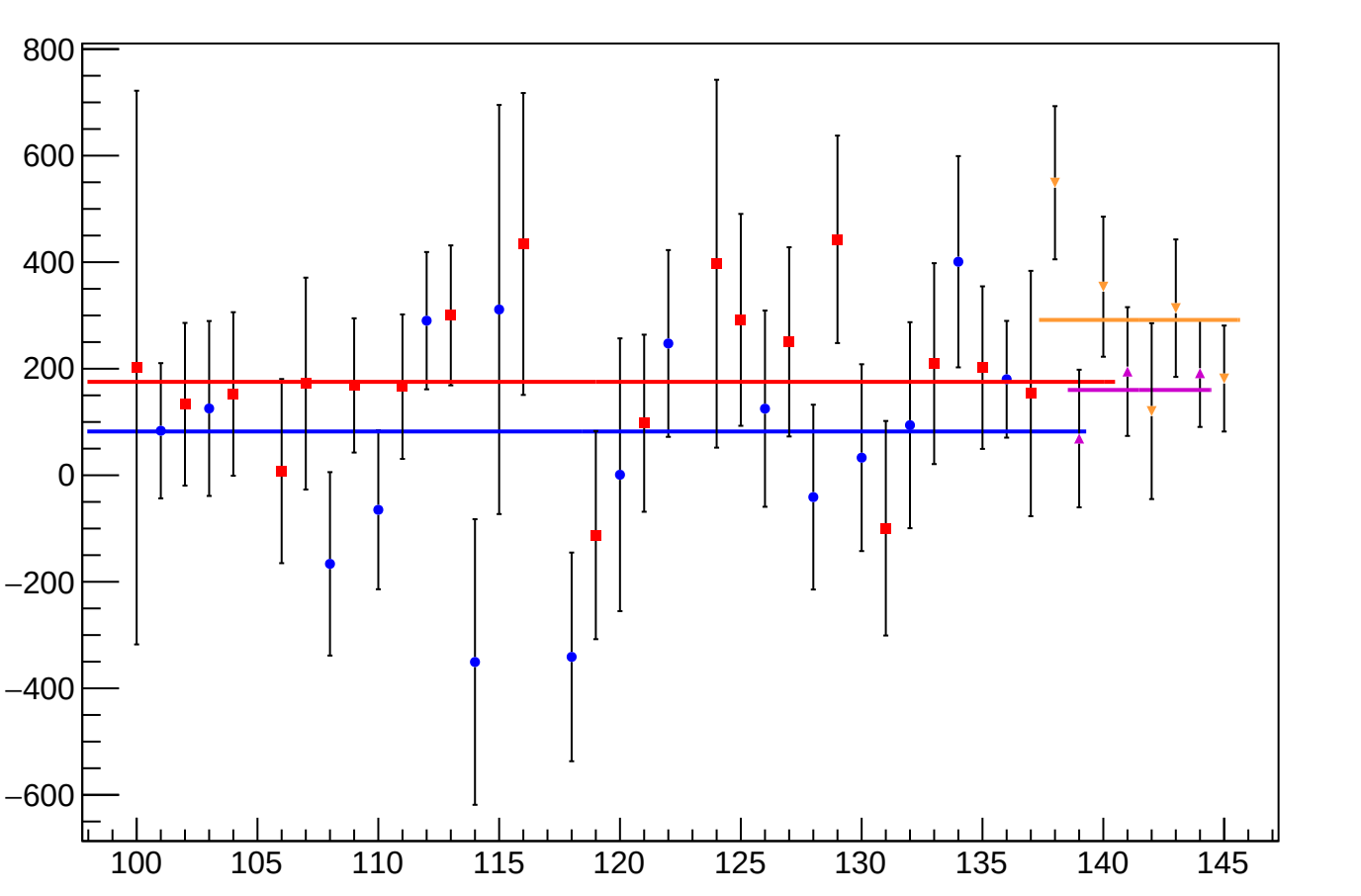
Left: 870.407+/-0.249 $\chi^2$/NDF: 309185.5/7

Right: 1138.426+/-0.217 $\chi^2$/NDF: 1495491.5/34

In: 1047.969+/-0.244 $\chi^2$/NDF:1087338.5/18

Out: 1002.440+/-0.220 $\chi^2$/NDF:1357438.7/23

All: 1022.852+/-0.163 $\chi^2$/NDF: 2463961.6/42




Right In: 82.185+/-42.133 $\chi^2$/NDF: 18.4/15

Left Out: 291.578+/-57.354 $\chi^2$/NDF:5.8/4

Right Out: 175.338+/-40.678 $\chi^2$/NDF: 9.9/18

Left In: 160.097+/-66.433 $\chi^2$/NDF:0.7/2

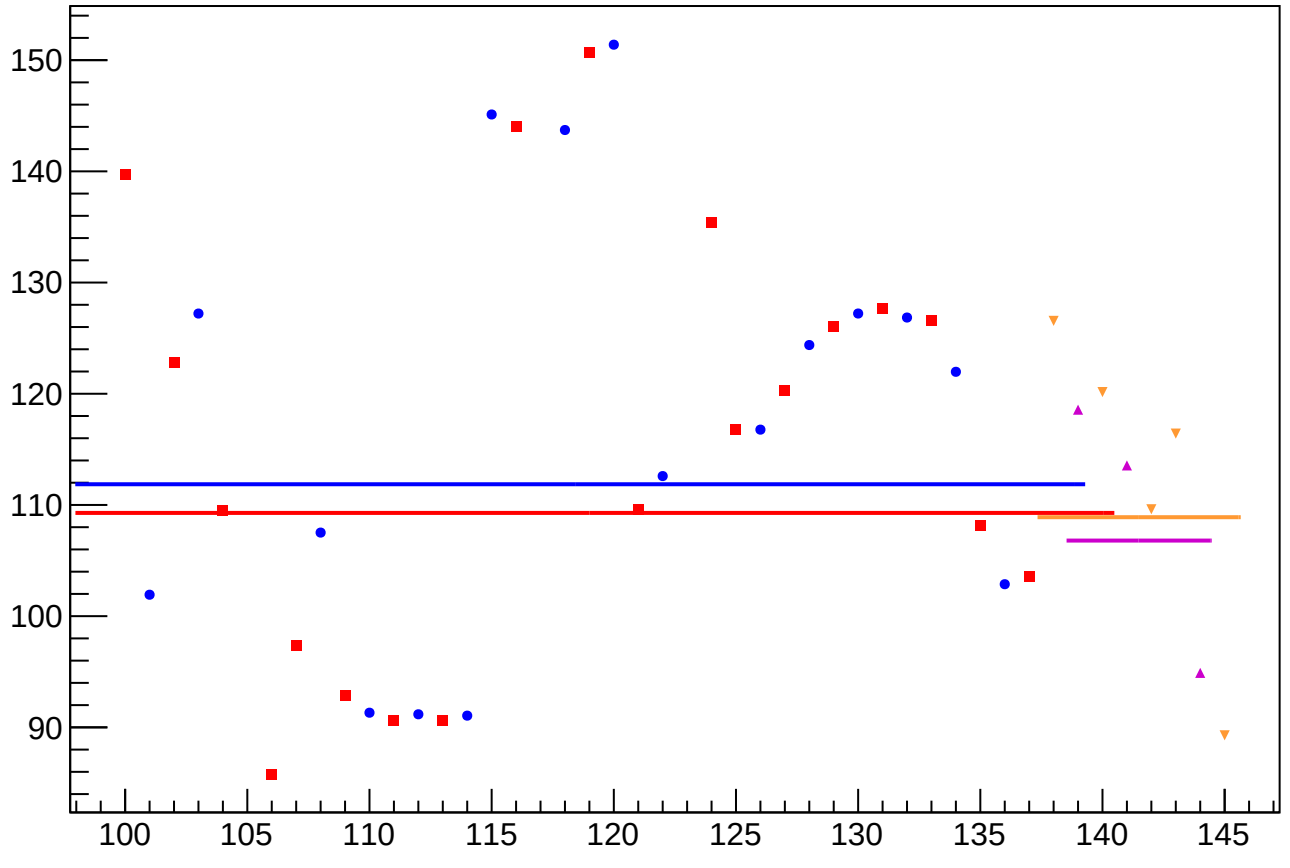
Left: 235.429+/-43.413 $\chi^2$/NDF: 8.7/7

Right: 130.398+/-29.265 $\chi^2$/NDF: 30.8/34

In: 104.534+/-35.581 $\chi^2$/NDF:20.0/18

Out: 214.241+/-33.180 $\chi^2$/NDF:18.4/23

All: 163.213+/-24.266 $\chi^2$/NDF: 43.5/42




Right In: 111.862+/-0.030 $\chi^2$/NDF: 306025.0/15

Left Out: 108.898+/-0.041 $\chi^2$/NDF:129391.4/4

Right Out: 109.284+/-0.029 $\chi^2$/NDF: 370711.7/18

Left In: 106.797+/-0.047 $\chi^2$/NDF:50656.8/2

Left: 108.001+/-0.031 $\chi^2$/NDF: 181194.0/7

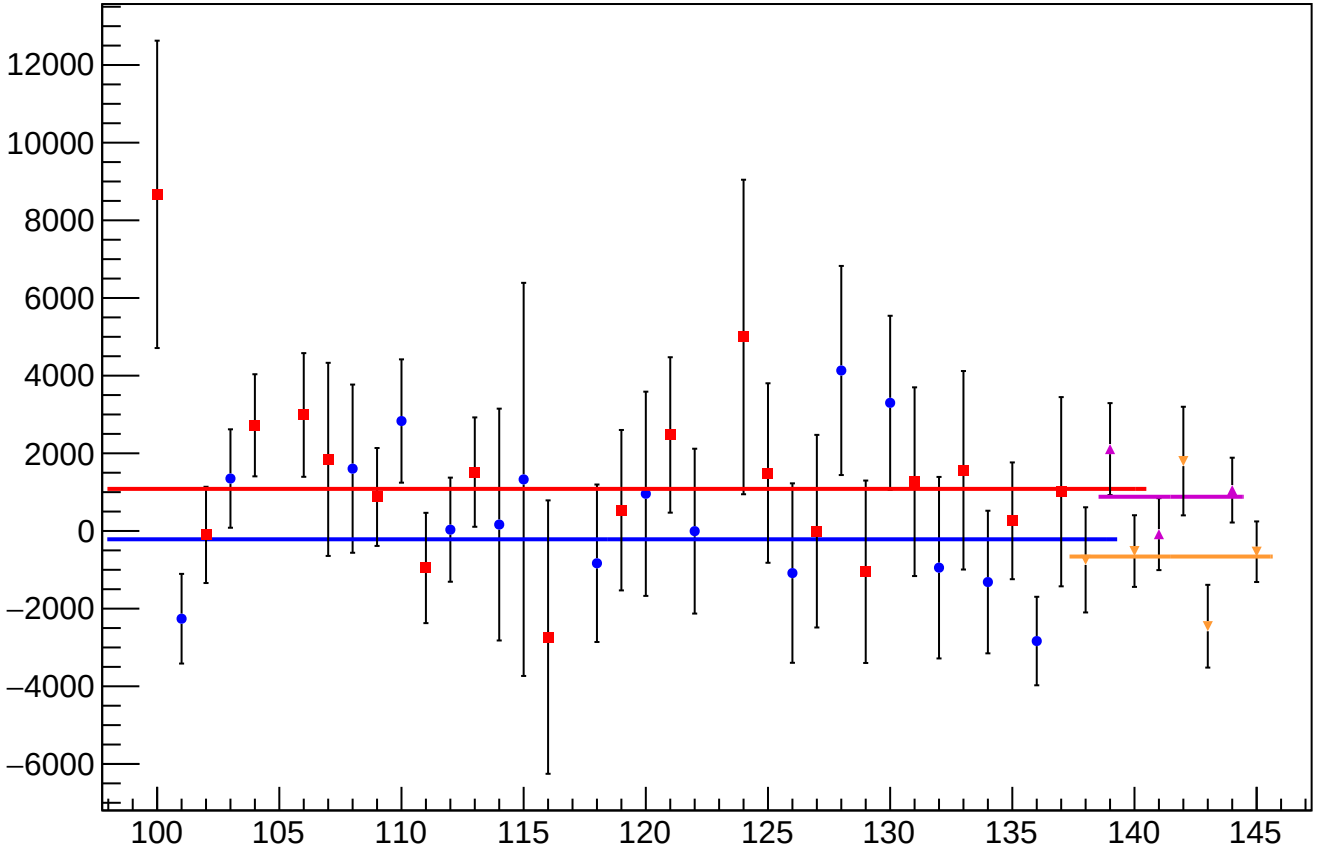
Right: 110.528+/-0.021 $\chi^2$/NDF: 680611.7/34

In: 110.409+/-0.025 $\chi^2$/NDF:364971.7/18

Out: 109.155+/-0.023 $\chi^2$/NDF:500163.4/23

All: 109.738+/-0.017 $\chi^2$/NDF: 866464.4/42

asym_sam_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -214.278+/-443.965 $\chi^2$/NDF: 20.4/15

Left Out: -658.433+/-458.678 $\chi^2$/NDF:6.0/4

Right Out: 1083.943+/-423.774 $\chi^2$/NDF: 13.9/18

Left In: 881.107+/-549.253 $\chi^2$/NDF:2.2/2

Left: -25.901+/-352.061 $\chi^2$/NDF: 12.8/7

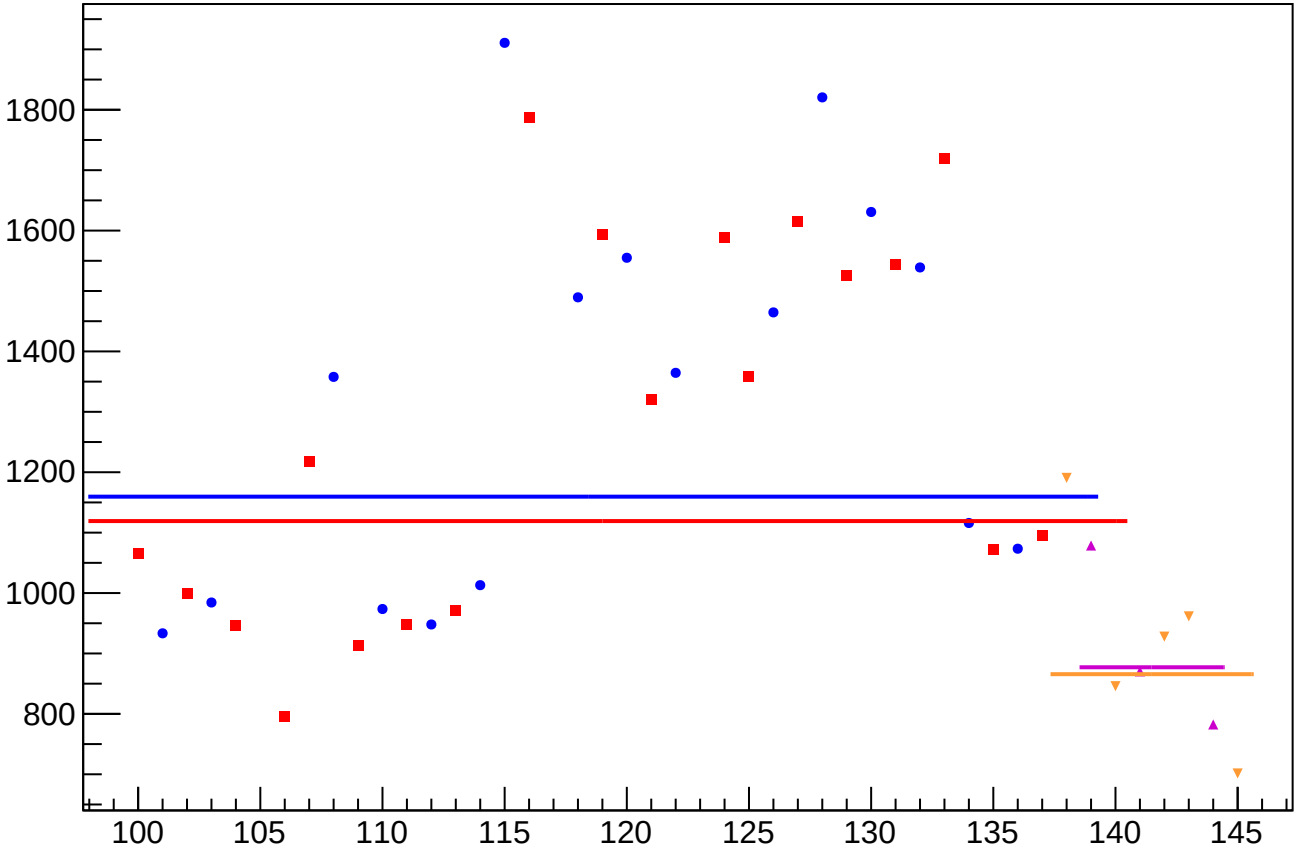
Right: 465.023+/-306.543 $\chi^2$/NDF: 38.8/34

In: 218.587+/-345.275 $\chi^2$/NDF:25.0/18

Out: 281.564+/-311.263 $\chi^2$/NDF:27.7/23

All: 253.329+/-231.188 $\chi^2$/NDF: 52.7/42

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: 865.706+/-0.324 $\chi^2$/NDF:224840.6/4

Right Out: 1119.156+/-0.300 $\chi^2$/NDF: 803154.6/18

Left In: 877.147+/-0.388 $\chi^2$/NDF:83833.7/2

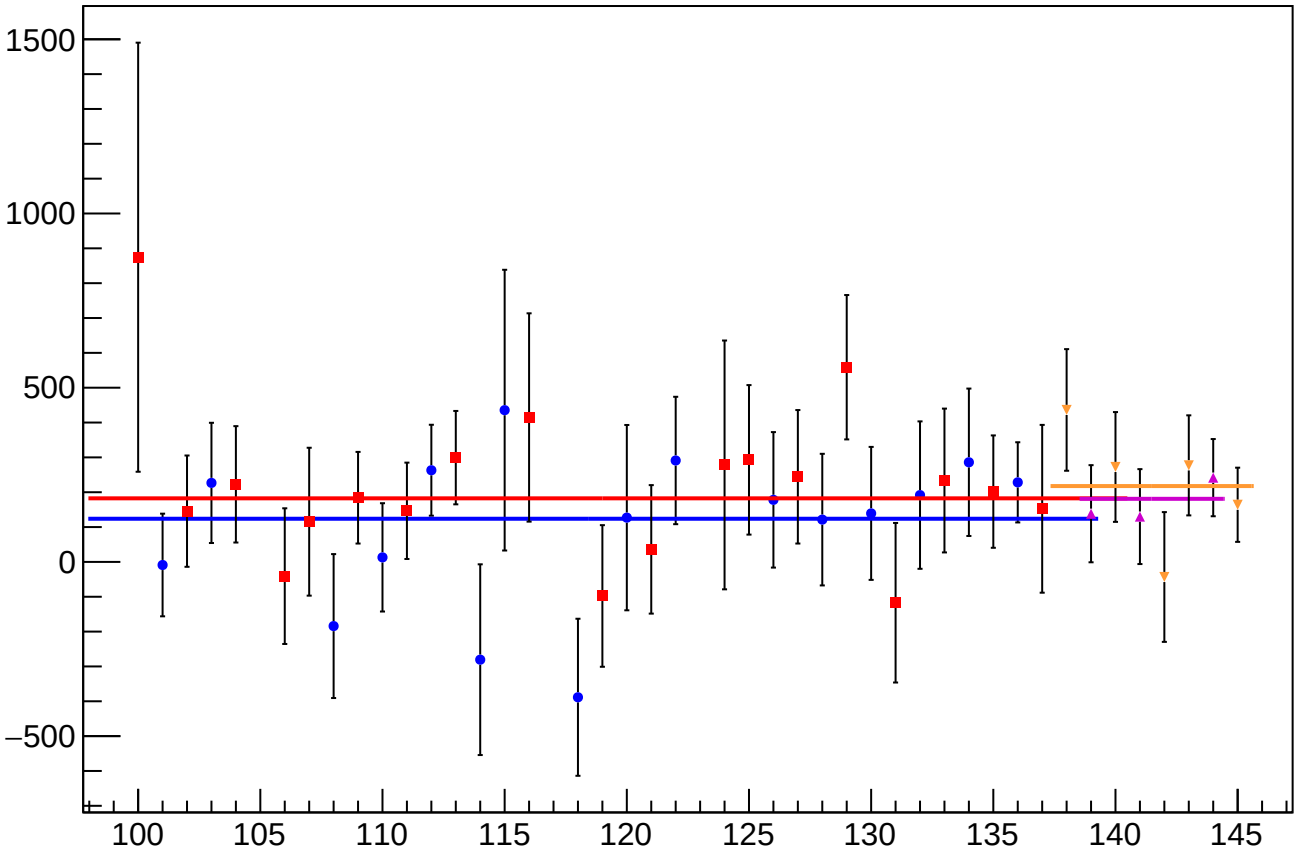
Left: 870.407+/-0.249 $\chi^2$/NDF: 309185.5/7

Right: 1138.426+/-0.217 $\chi^2$/NDF: 1495491.5/34

In: 1047.969+/-0.244 $\chi^2$/NDF:1087338.5/18

Out: 1002.440+/-0.220 $\chi^2$/NDF:1357438.7/23

All: 1022.852+/-0.163 $\chi^2$/NDF: 2463961.6/42




Right In: 123.892+/-45.238 $\chi^2$/NDF: 15.4/15

Left Out: 217.692+/-64.729 $\chi^2$/NDF:4.1/4

Right Out: 182.467+/-43.224 $\chi^2$/NDF: 12.3/18

Left In: 181.075+/-73.164 $\chi^2$/NDF:0.5/2

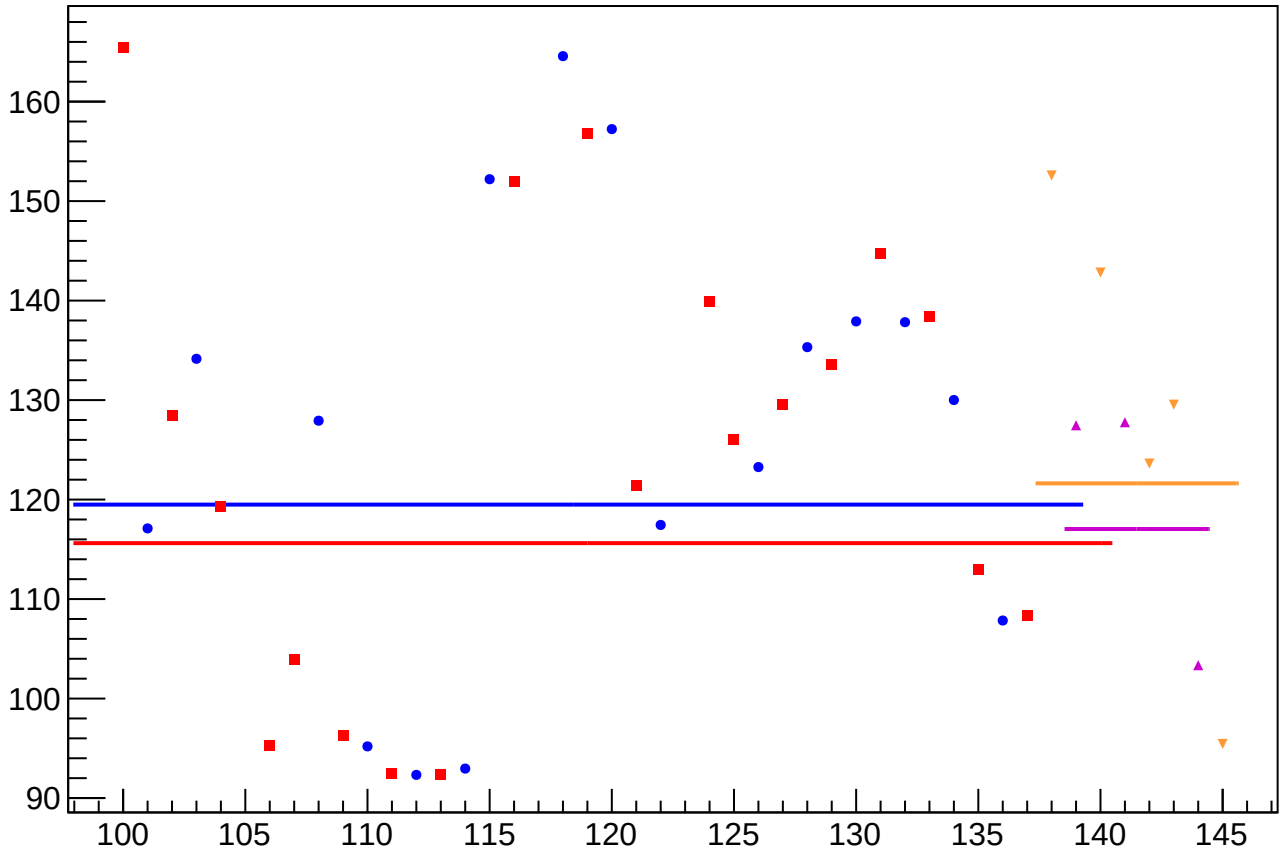
Left: 201.615+/-48.479 $\chi^2$/NDF: 4.8/7

Right: 154.513+/-31.252 $\chi^2$/NDF: 28.6/34

In: 139.708+/-38.477 $\chi^2$/NDF:16.4/18

Out: 193.331+/-35.946 $\chi^2$/NDF:16.6/23

All: 168.340+/-26.267 $\chi^2$/NDF: 34.0/42




Right In: 119.495+/-0.032 $\chi^2$/NDF: 380250.8/15

Left Out: 121.631+/-0.046 $\chi^2$/NDF:226365.6/4

Right Out: 115.622+/-0.031 $\chi^2$/NDF: 426961.7/18

Left In: 117.043+/-0.052 $\chi^2$/NDF:54131.2/2

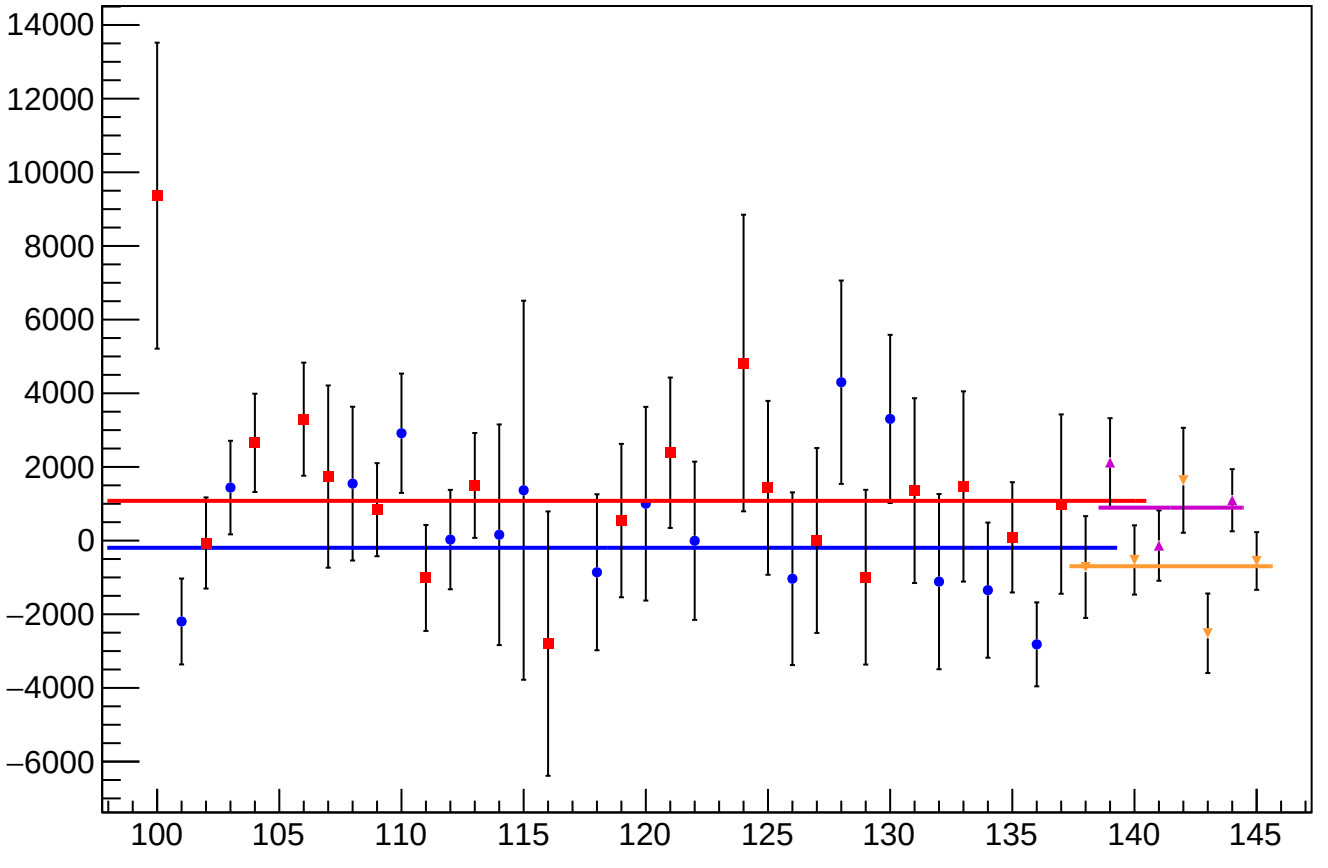
Left: 119.617+/-0.034 $\chi^2$/NDF: 284908.3/7

Right: 117.470+/-0.022 $\chi^2$/NDF: 814875.1/34

In: 118.817+/-0.027 $\chi^2$/NDF:436006.2/18

Out: 117.475+/-0.025 $\chi^2$/NDF:665249.6/23

All: 118.100+/-0.019 $\chi^2$/NDF: 1102554.0/42




Right In: -195.086+/-447.334 $\chi^2$/NDF: 20.4/15

Left Out: -695.910+/-464.497 $\chi^2$/NDF:5.6/4

Right Out: 1079.393+/-425.950 $\chi^2$/NDF: 14.6/18

Left In: 894.361+/-559.870 $\chi^2$/NDF:2.3/2

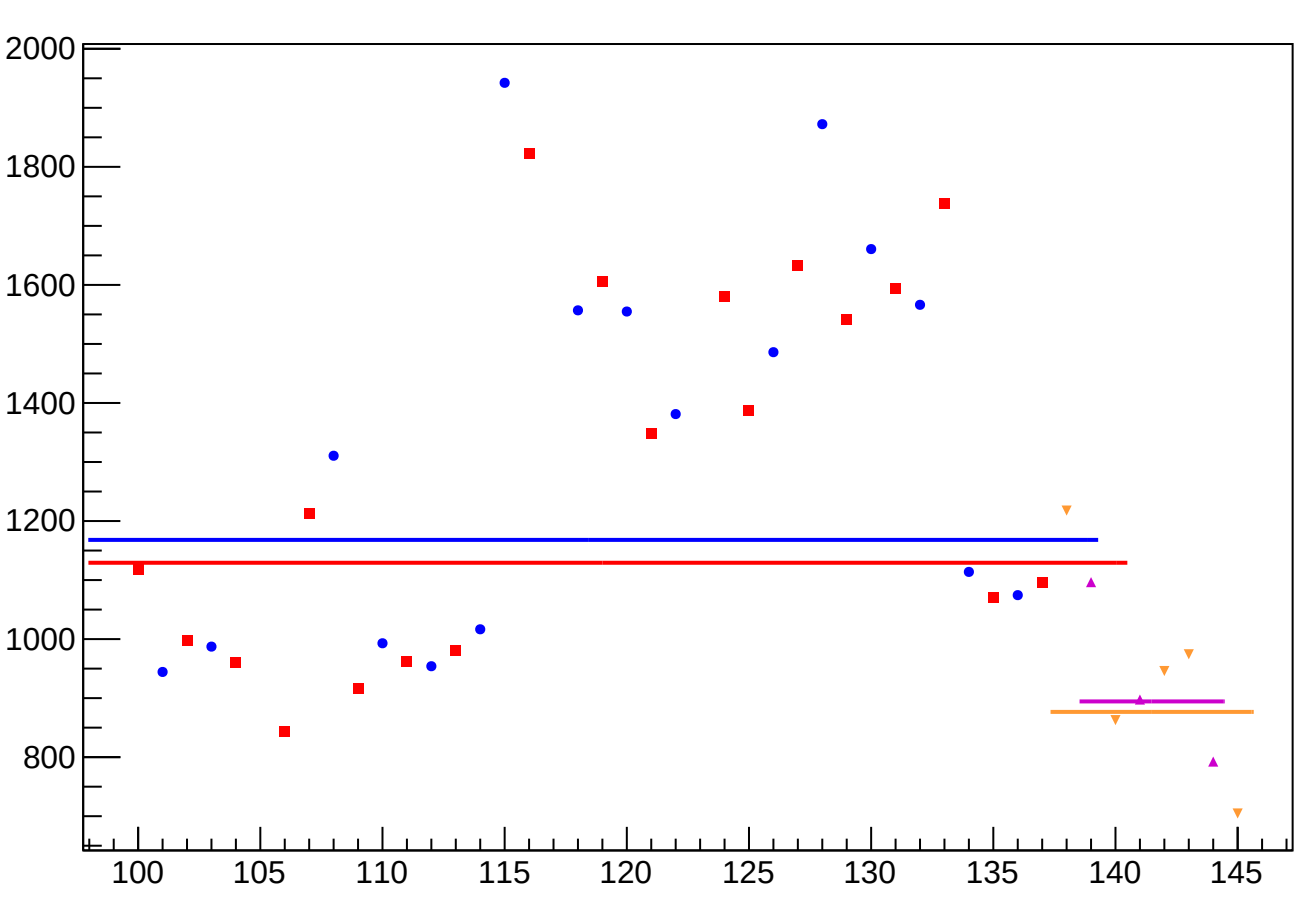
Left: -47.563+/-357.483 $\chi^2$/NDF: 12.6/7

Right: 473.342+/-308.475 $\chi^2$/NDF: 39.2/34

In: 229.413+/-349.480 $\chi^2$/NDF:25.0/18

Out: 268.450+/-313.937 $\chi^2$/NDF:28.1/23

All: 251.017+/-233.545 $\chi^2$/NDF: 53.1/42




Right In: 1168.063+/-0.316 $\chi^2$/NDF: 709363.8/15

Left Out: 876.689+/-0.328 $\chi^2$/NDF:239800.3/4

Right Out: 1129.316+/-0.301 $\chi^2$/NDF: 807222.5/18

Left In: 894.416+/-0.396 $\chi^2$/NDF:85527.5/2

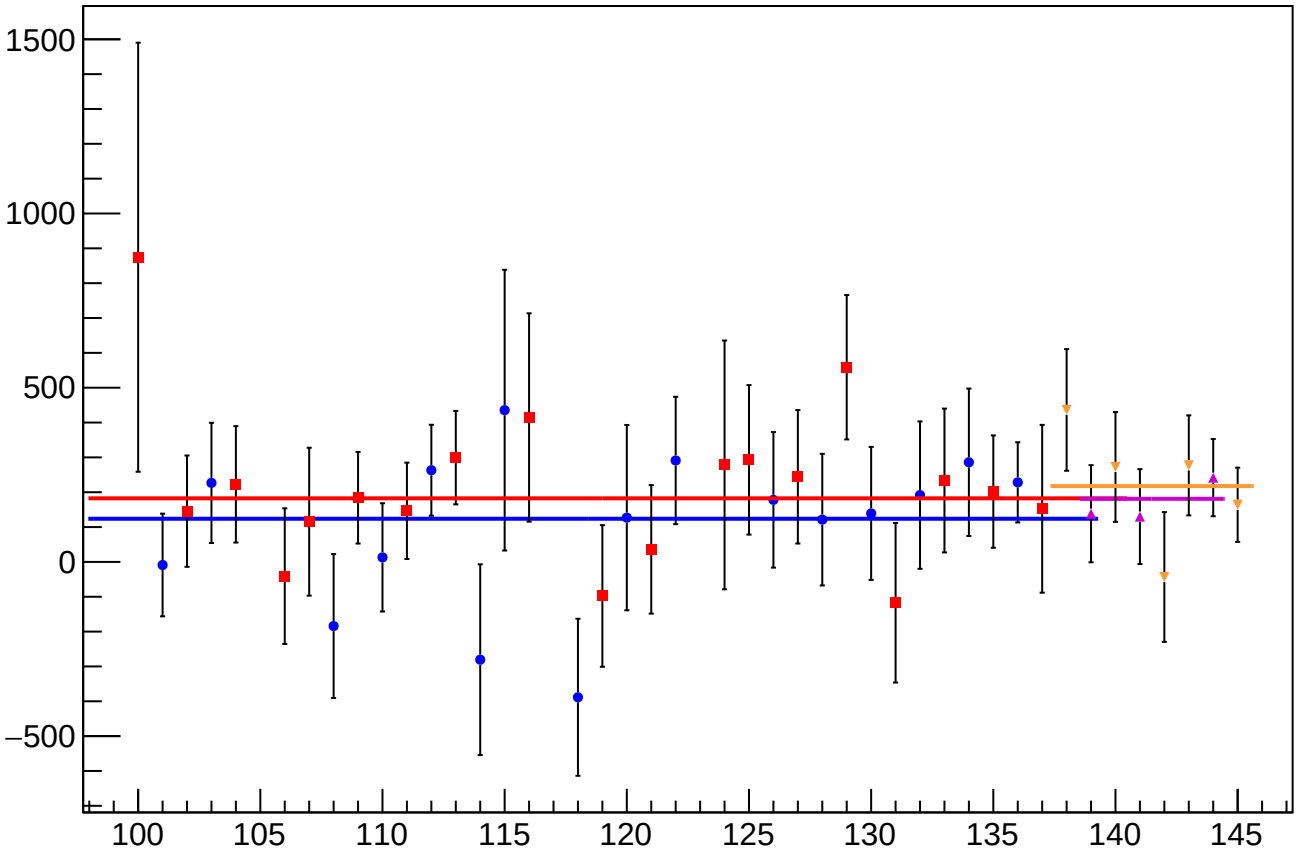
Left: 883.916+/-0.253 $\chi^2$/NDF: 326515.5/7

Right: 1147.741+/-0.218 $\chi^2$/NDF: 1524455.8/34

In: 1061.437+/-0.247 $\chi^2$/NDF:1086511.2/18

Out: 1013.918+/-0.222 $\chi^2$/NDF:1368383.3/23

All: 1035.139+/-0.165 $\chi^2$/NDF: 2475358.0/42




Right In: 123.895+/-45.238 $\chi^2$/NDF: 15.4/15

Left Out: 217.694+/-64.729 $\chi^2$/NDF:4.1/4

Right Out: 182.468+/-43.224 $\chi^2$/NDF: 12.3/18

Left In: 181.076+/-73.164 $\chi^2$/NDF:0.5/2

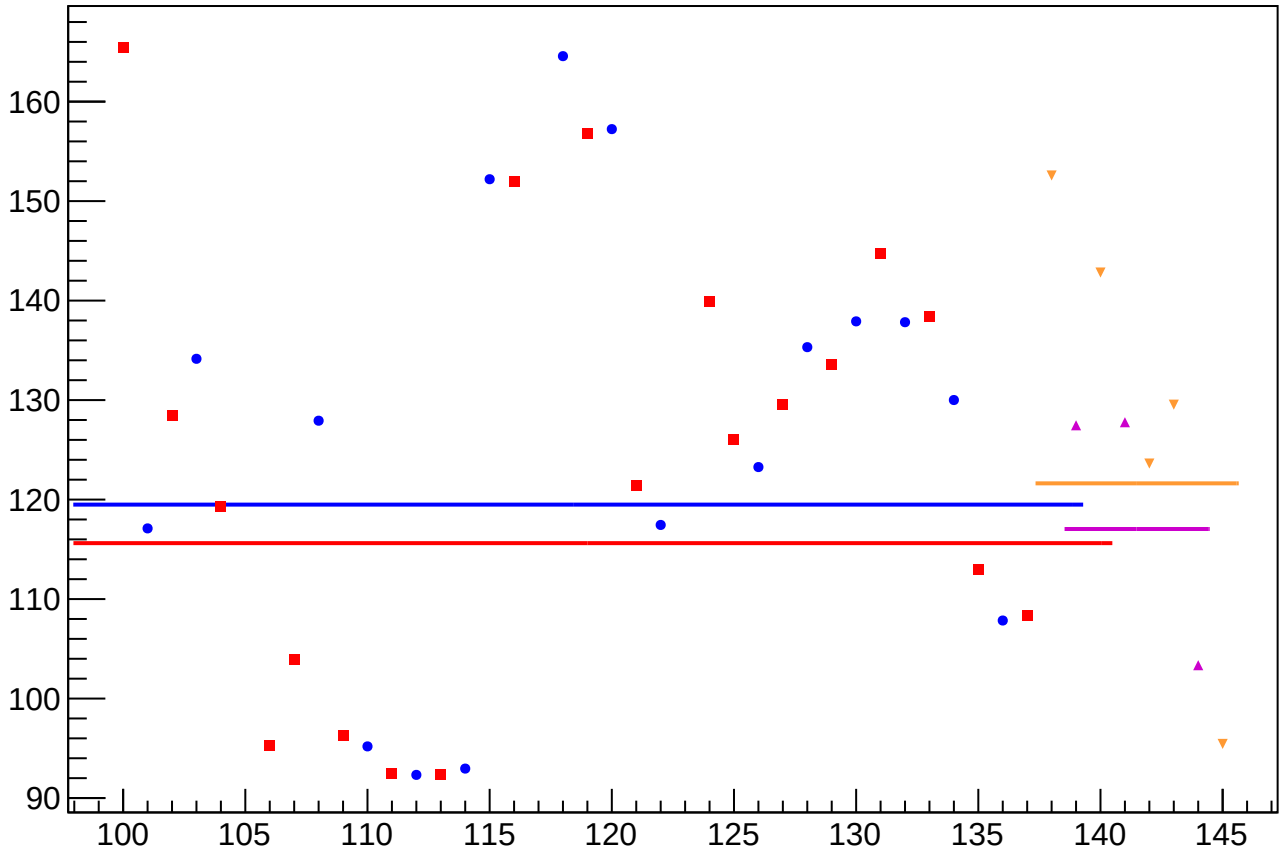
Left: 201.617+/-48.479 $\chi^2$/NDF: 4.8/7

Right: 154.514+/-31.252 $\chi^2$/NDF: 28.6/34

In: 139.710+/-38.477 $\chi^2$/NDF:16.4/18

Out: 193.331+/-35.946 $\chi^2$/NDF:16.6/23

All: 168.342+/-26.267 $\chi^2$/NDF: 34.0/42




Right In: 119.495+/-0.032 $\chi^2$/NDF: 380254.2/15

Left Out: 121.631+/-0.046 $\chi^2$/NDF:226364.1/4

Right Out: 115.622+/-0.031 $\chi^2$/NDF: 426966.4/18

Left In: 117.043+/-0.052 $\chi^2$/NDF:54130.1/2

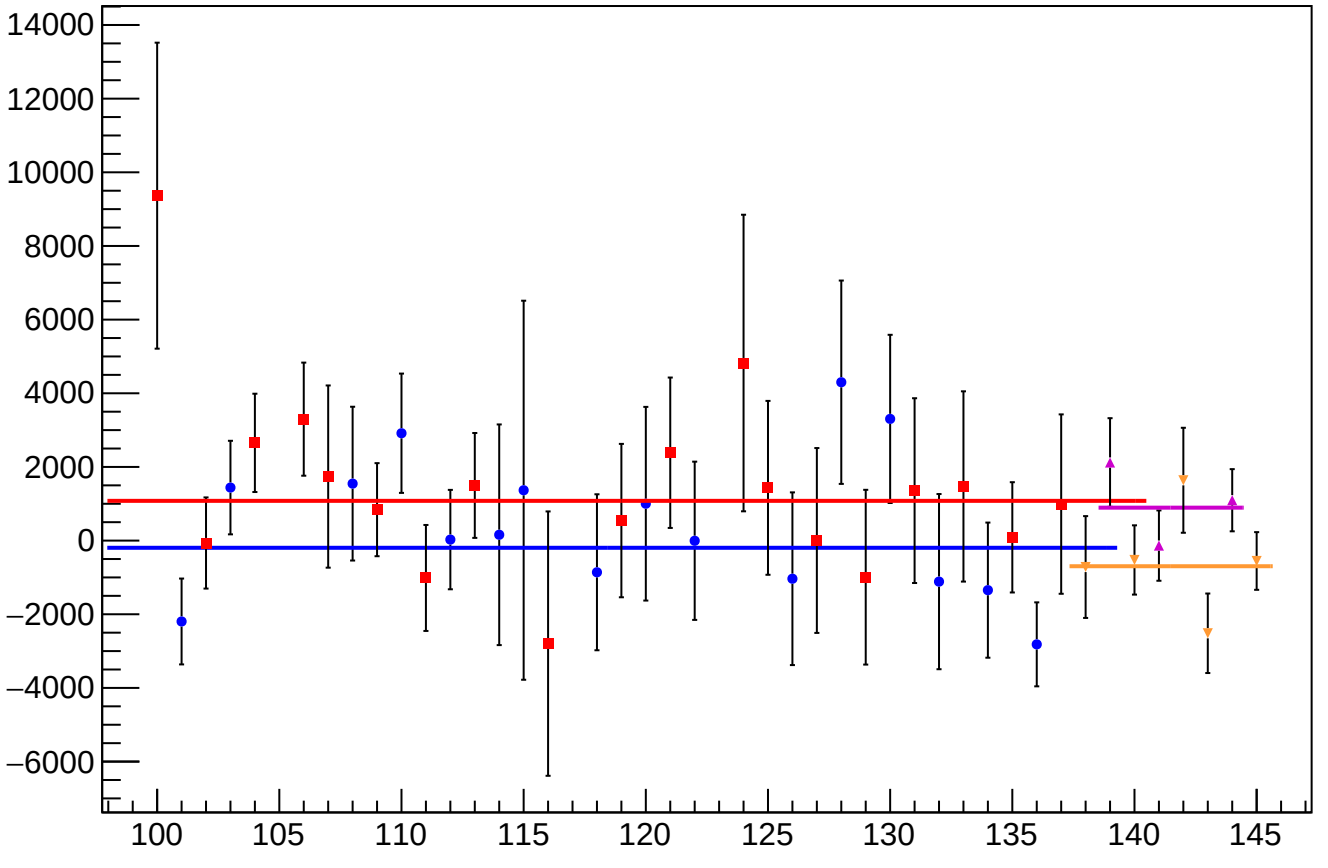
Left: 119.617+/-0.034 $\chi^2$/NDF: 284905.7/7

Right: 117.470+/-0.022 $\chi^2$/NDF: 814883.4/34

In: 118.817+/-0.027 $\chi^2$/NDF:436008.4/18

Out: 117.475+/-0.025 $\chi^2$/NDF:665253.2/23

All: 118.100+/-0.019 $\chi^2$/NDF: 1102559.8/42




Right In: -195.085+/-447.334 $\chi^2$/NDF: 20.4/15

Left Out: -695.908+/-464.496 $\chi^2$/NDF:5.6/4

Right Out: 1079.393+/-425.950 $\chi^2$/NDF: 14.6/18

Left In: 894.360+/-559.870 $\chi^2$/NDF:2.3/2

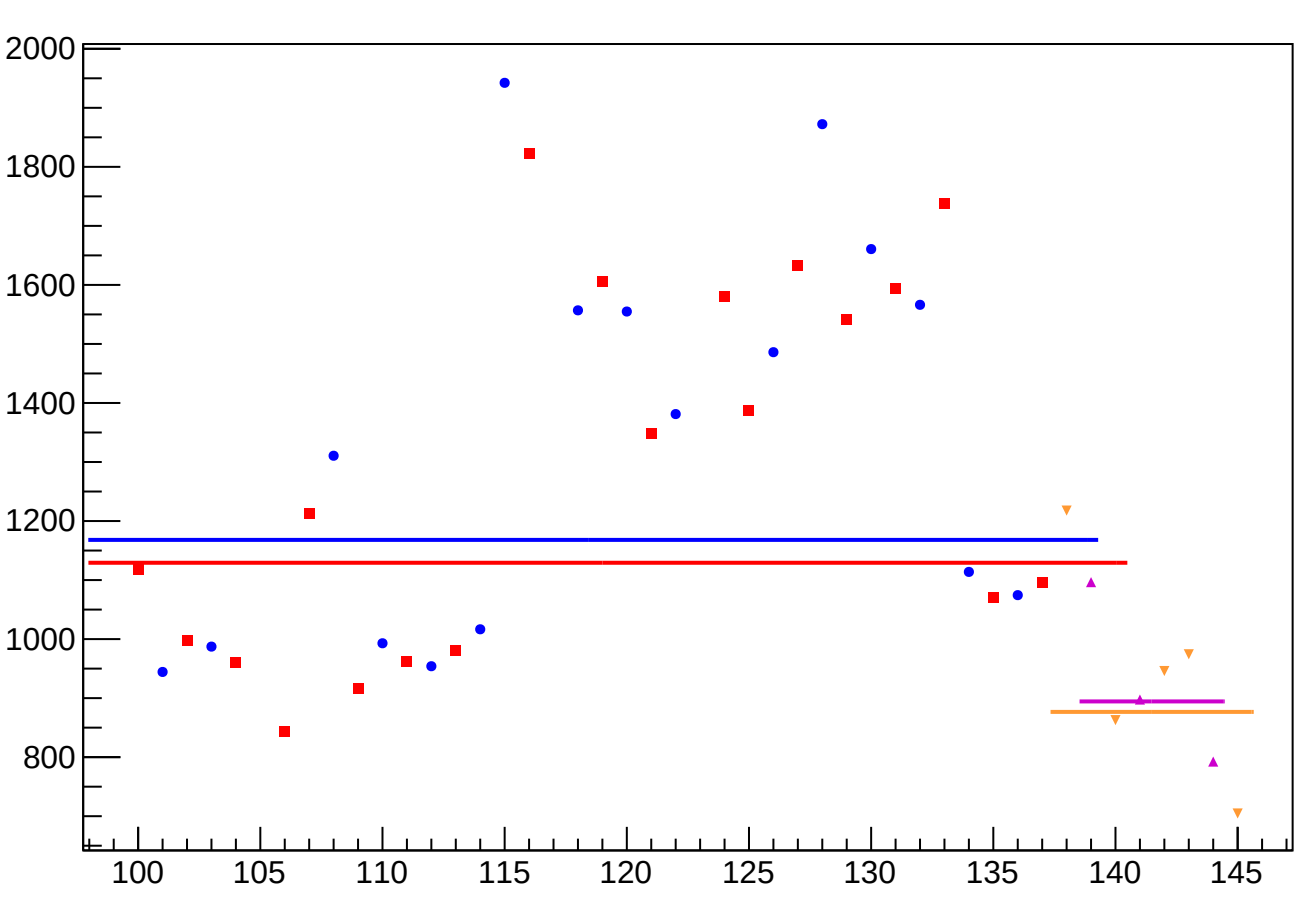
Left: -47.563+/-357.483 $\chi^2$/NDF: 12.6/7

Right: 473.342+/-308.475 $\chi^2$/NDF: 39.2/34

In: 229.413+/-349.480 $\chi^2$/NDF:25.0/18

Out: 268.449+/-313.936 $\chi^2$/NDF:28.1/23

All: 251.017+/-233.545 $\chi^2$/NDF: 53.1/42




Right In: 1168.063+/-0.316 $\chi^2$/NDF: 709365.6/15

Left Out: 876.687+/-0.328 $\chi^2$/NDF:239802.3/4

Right Out: 1129.316+/-0.301 $\chi^2$/NDF: 807224.0/18

Left In: 894.415+/-0.396 $\chi^2$/NDF:85527.6/2

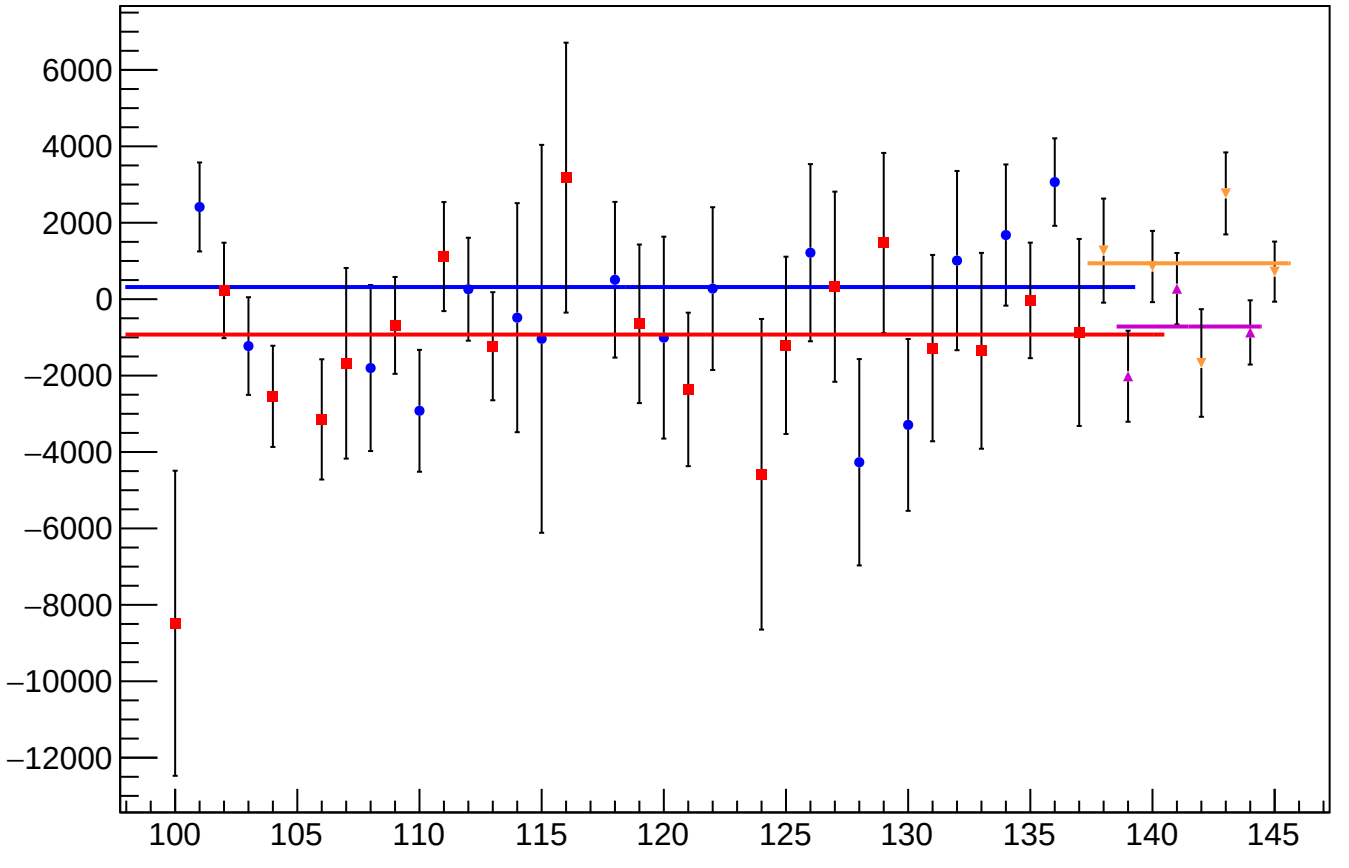
Left: 883.915+/-0.253 $\chi^2$/NDF: 326517.7/7

Right: 1147.741+/-0.218 $\chi^2$/NDF: 1524459.2/34

In: 1061.437+/-0.247 $\chi^2$/NDF:1086514.5/18

Out: 1013.917+/-0.222 $\chi^2$/NDF:1368390.5/23

All: 1035.139+/-0.165 $\chi^2$/NDF: 2475368.9/42




Right In: 317.365+/-446.341 $\chi^2$/NDF: 22.2/15

Left Out: 939.129+/-462.410 $\chi^2$/NDF:6.5/4

Right Out: -926.036+/-425.405 $\chi^2$/NDF: 14.5/18

Left In: -716.257+/-553.404 $\chi^2$/NDF:2.4/2

Left: 258.540+/-354.842 $\chi^2$/NDF: 14.1/7

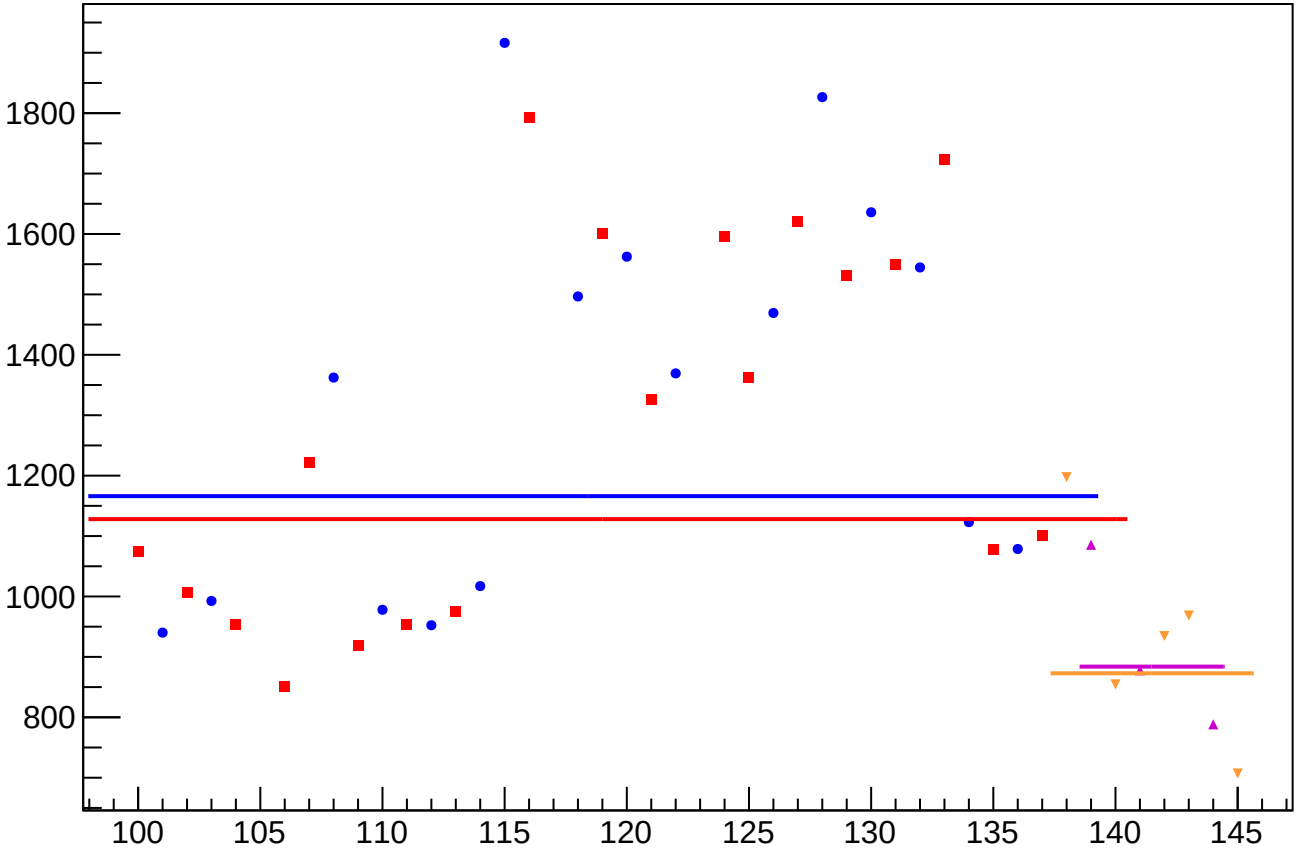
Right: -334.180+/-307.942 $\chi^2$/NDF: 40.8/34

In: -90.010+/-347.423 $\chi^2$/NDF:26.6/18

Out: -71.061+/-313.073 $\chi^2$/NDF:29.8/23

All: -79.553+/-232.575 $\chi^2$/NDF: 56.5/42

# asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 1166.056+/-0.316 $\chi^2$/NDF: 677063.1/15

Left Out: 872.876+/-0.327 $\chi^2$/NDF:222891.1/4

Right Out: 1128.006+/-0.301 $\chi^2$/NDF: 775766.7/18

Left In: 883.901+/-0.391 $\chi^2$/NDF:83275.0/2

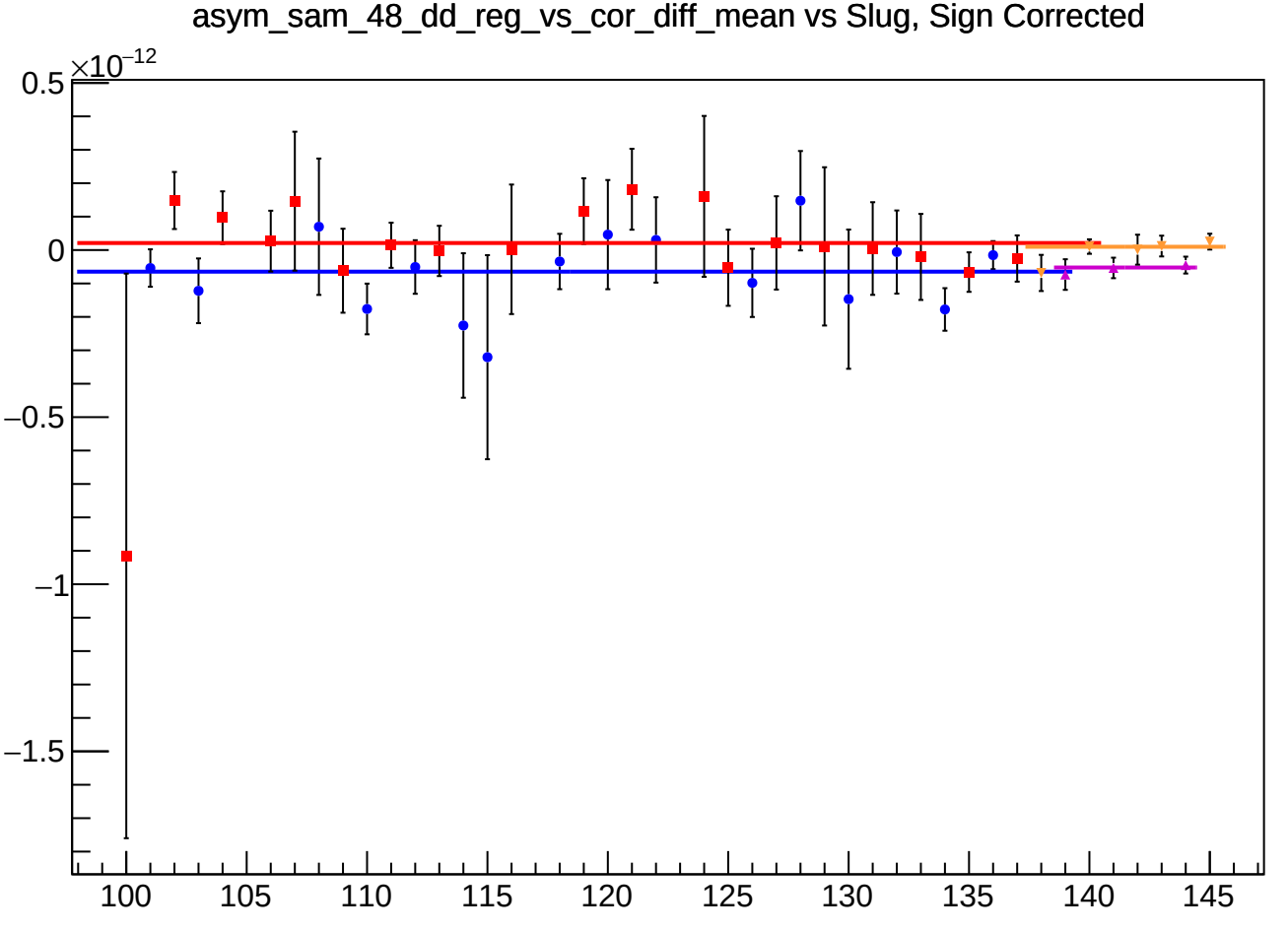
Left: 877.409+/-0.251 $\chi^2$/NDF: 306633.5/7

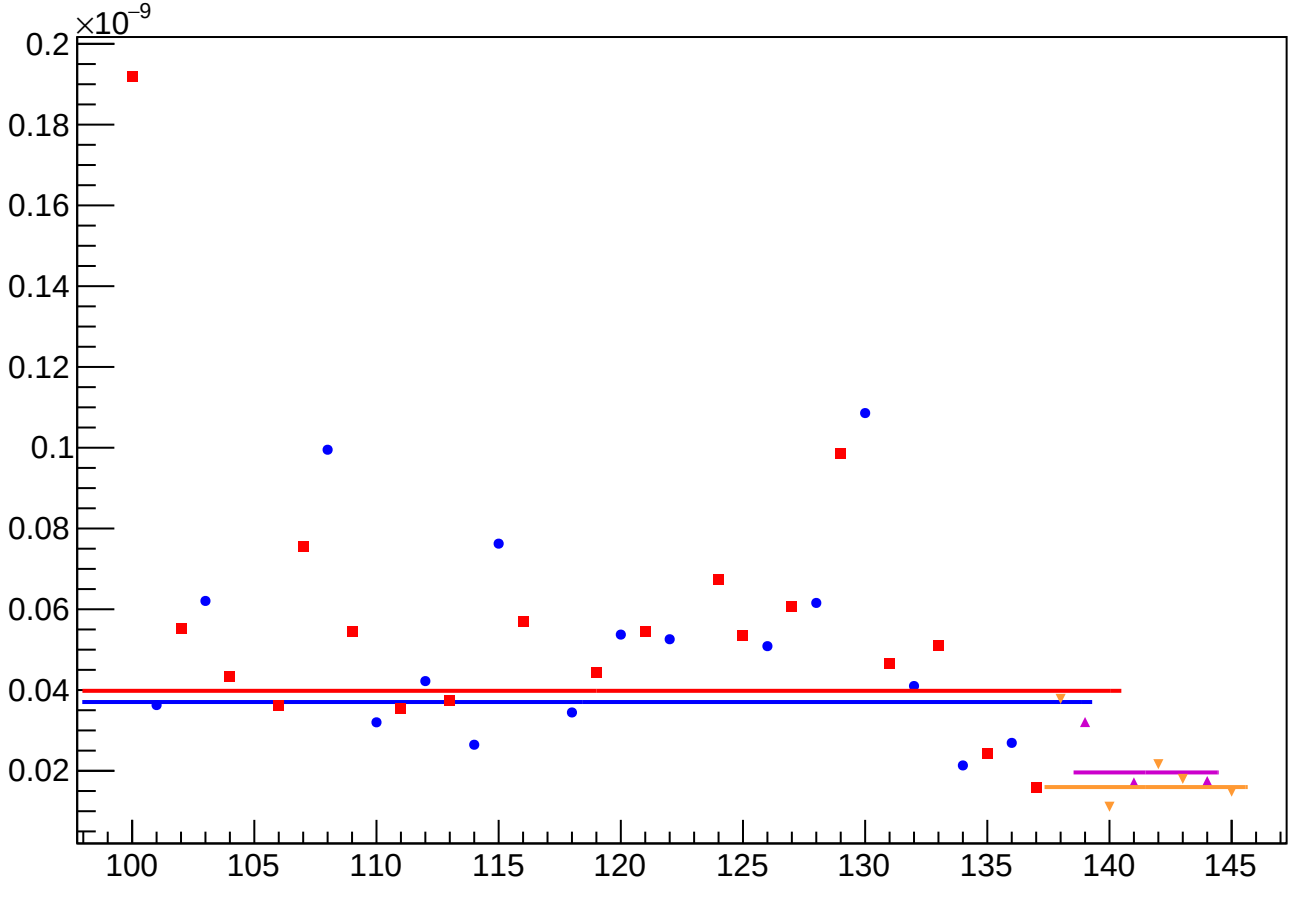
Right: 1146.118+/-0.218 $\chi^2$/NDF: 1460446.1/34

In: 1054.852+/-0.246 $\chi^2$/NDF:1075336.1/18

Out: 1011.057+/-0.221 $\chi^2$/NDF:1328409.1/23

All: 1030.683+/-0.164 $\chi^2$/NDF: 2421284.1/42


asym_sam_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.5
0
−0.5
−1
−1.5
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 12.5/15
Left Out: 0.000+/-0.000 χ²/NDF:2.6/4
Right Out: 0.000+/-0.000 χ²/NDF: 11.5/18
Left In: -0.000+/-0.000 χ²/NDF:0.3/2
Left: -0.000+/-0.000 χ²/NDF: 10.6/7
Right: -0.000+/-0.000 χ²/NDF: 31.3/34
In: -0.000+/-0.000 χ²/NDF:13.0/18
Out: 0.000+/-0.000 χ²/NDF:14.2/23
All: -0.000+/-0.000 χ²/NDF: 42.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 995390.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:471068.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 903728.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:175638.3/2

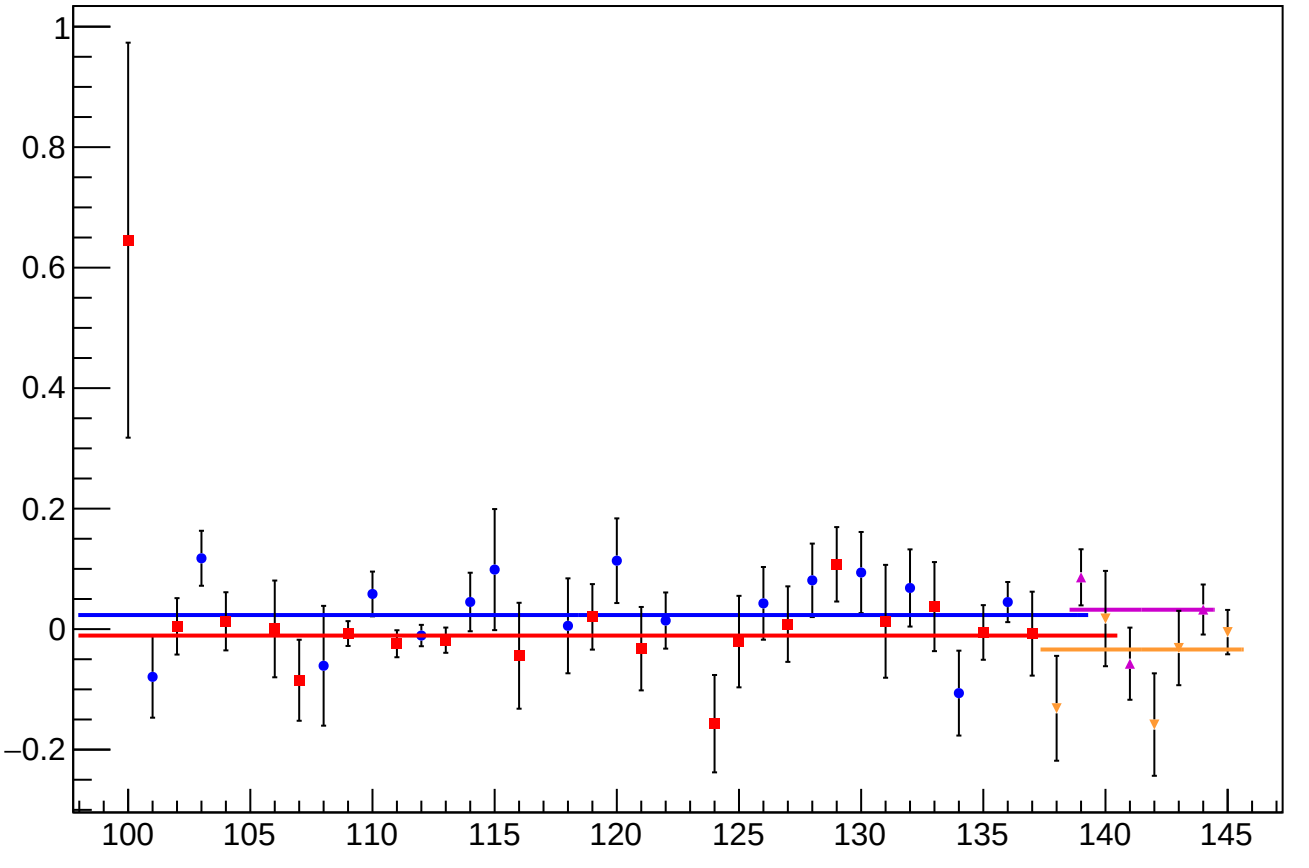
Left: 0.000+/-0.000 $\chi^2$/NDF: 699641.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 1914342.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:1932137.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2980772.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5056816.8/42




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.034+/-0.026 $\chi^2$/NDF:4.4/4

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.032+/-0.028 $\chi^2$/NDF:3.6/2

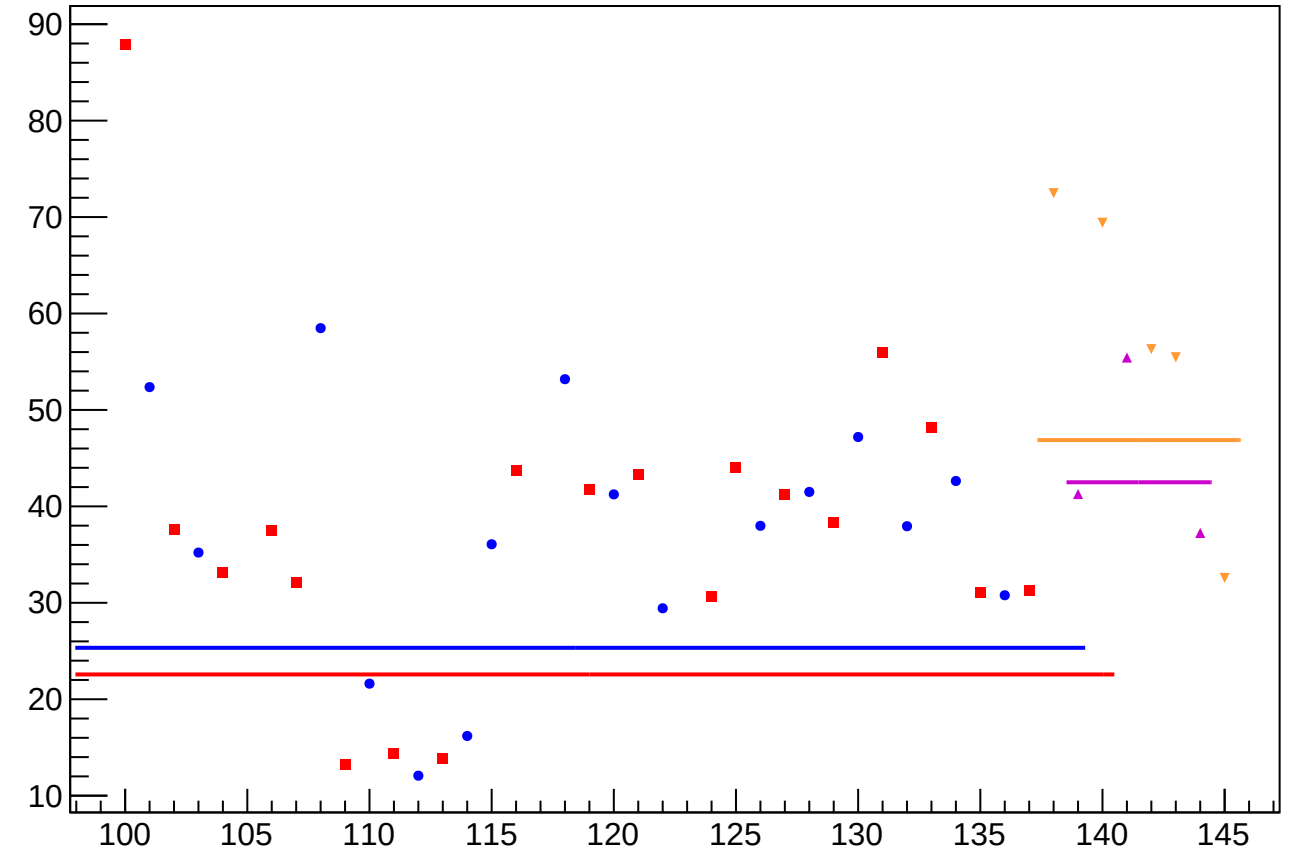
Left: -0.002+/-0.019 $\chi^2$/NDF: 11.0/7

Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.025+/-0.010 $\chi^2$/NDF:24.4/18

Out: -0.013+/-0.009 $\chi^2$/NDF:19.4/23

All: 0.003+/-0.007 $\chi^2$/NDF: 51.4/42




Right In: 25.334+/-0.008 $\chi^2$/NDF: 2925132.2/15

Left Out: 46.876+/-0.019 $\chi^2$/NDF:699996.8/4

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3139937.1/18

Left In: 42.498+/-0.019 $\chi^2$/NDF:126686.5/2

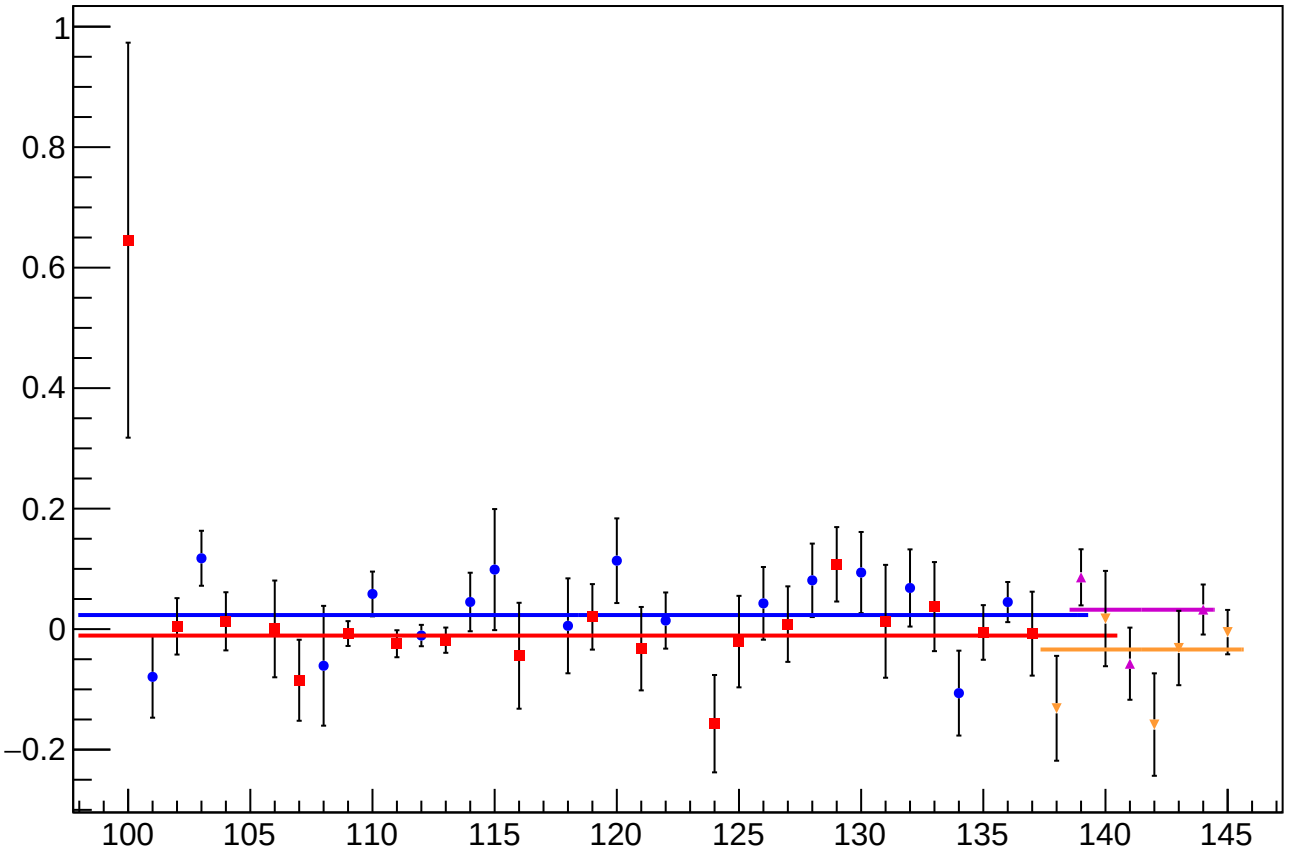
Left: 44.774+/-0.013 $\chi^2$/NDF: 852982.7/7

Right: 23.786+/-0.005 $\chi^2$/NDF: 6134886.6/34

In: 27.723+/-0.007 $\chi^2$/NDF:3721266.0/18

Out: 25.507+/-0.006 $\chi^2$/NDF:5324829.9/23

All: 26.492+/-0.005 $\chi^2$/NDF: 9097830.2/42




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.034+/-0.026 $\chi^2$/NDF:4.4/4

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.032+/-0.028 $\chi^2$/NDF:3.6/2

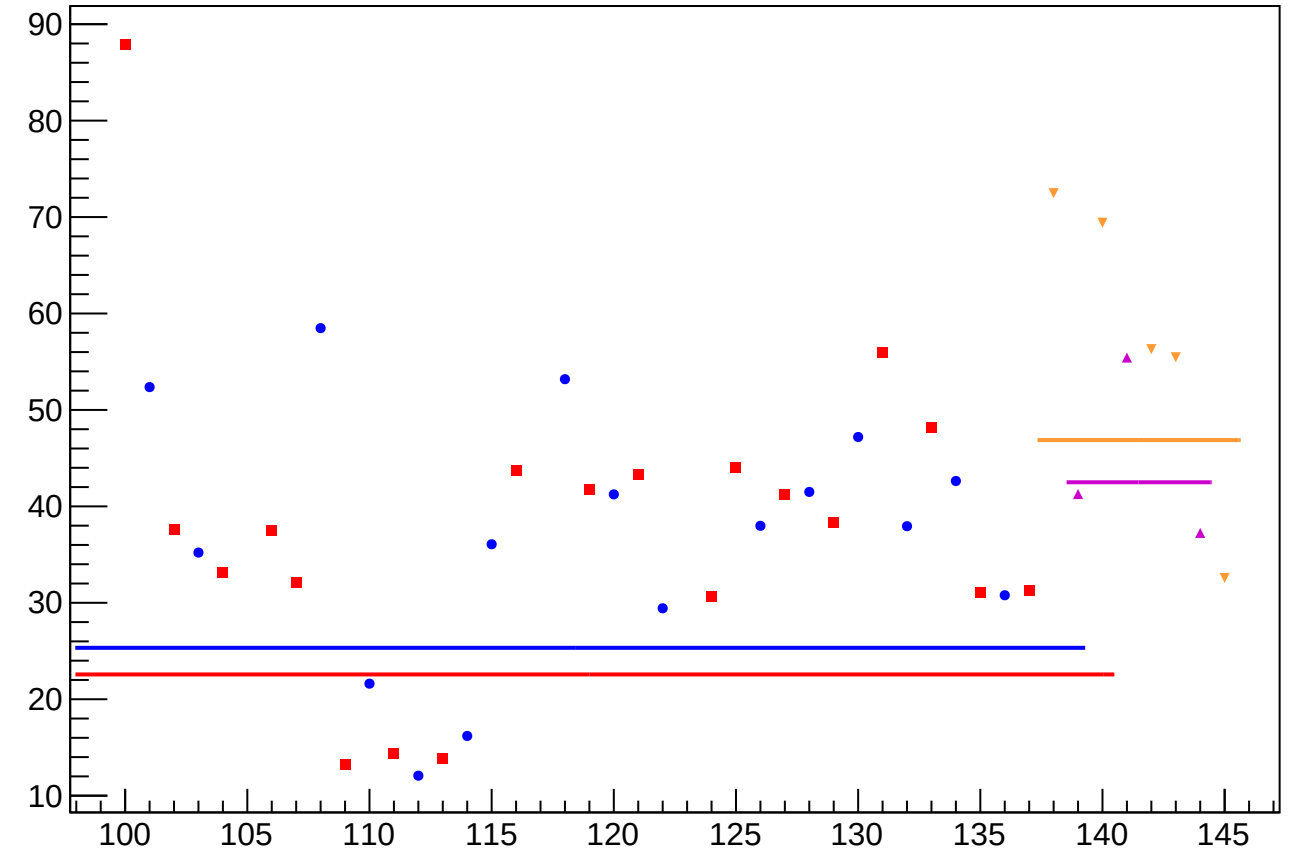
Left: -0.002+/-0.019 $\chi^2$/NDF: 11.0/7

Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.025+/-0.010 $\chi^2$/NDF:24.4/18

Out: -0.013+/-0.009 $\chi^2$/NDF:19.4/23

All: 0.003+/-0.007 $\chi^2$/NDF: 51.4/42




Right In: 25.334+/-0.008 $\chi^2$/NDF: 2925132.2/15

Left Out: 46.876+/-0.019 $\chi^2$/NDF:699996.8/4

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3139937.1/18

Left In: 42.498+/-0.019 $\chi^2$/NDF:126686.5/2

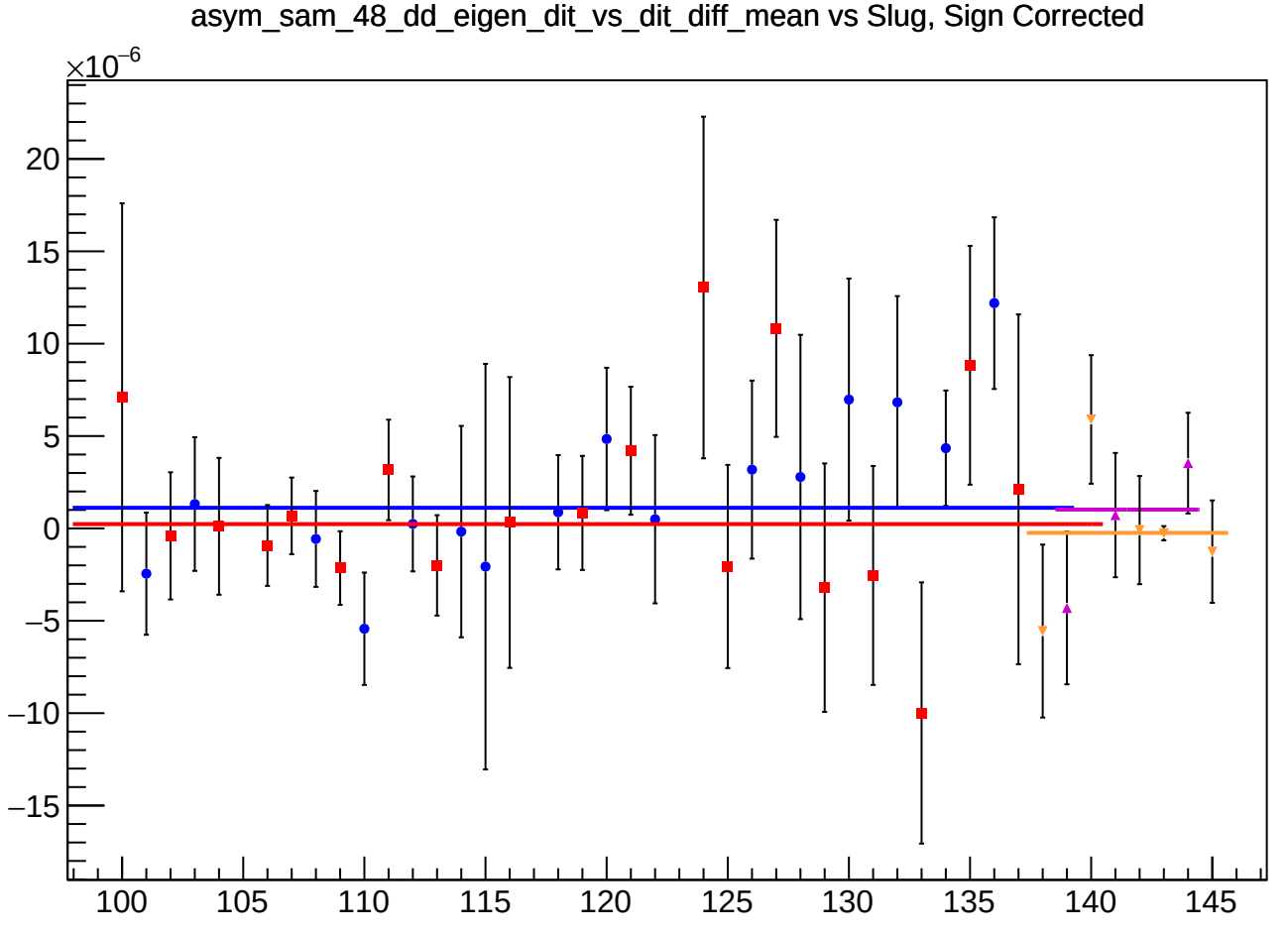
Left: 44.774+/-0.013 $\chi^2$/NDF: 852982.7/7

Right: 23.786+/-0.005 $\chi^2$/NDF: 6134886.6/34

In: 27.723+/-0.007 $\chi^2$/NDF:3721266.0/18

Out: 25.507+/-0.006 $\chi^2$/NDF:5324829.9/23

All: 26.492+/-0.005 $\chi^2$/NDF: 9097830.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.5/2

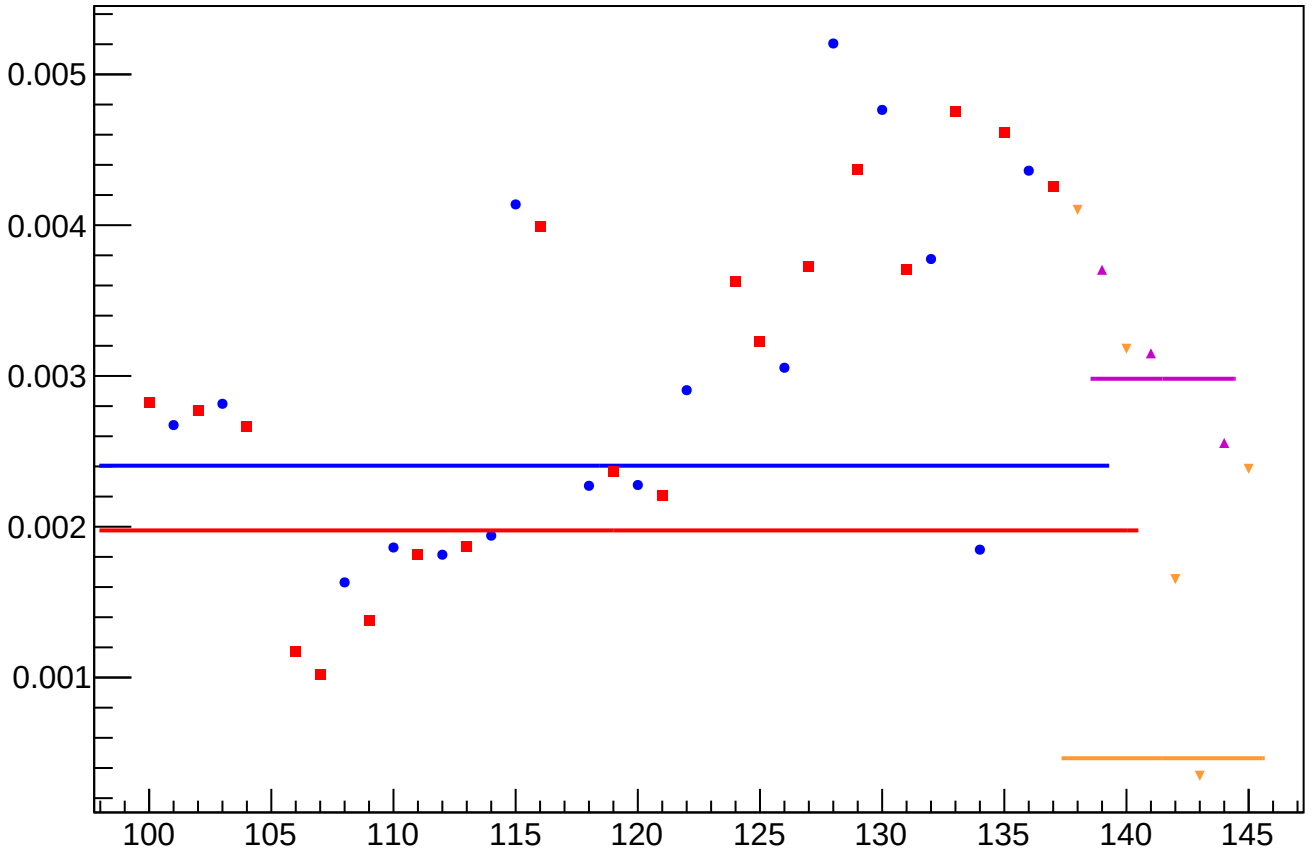
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 31.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 40.6/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1571983.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3894856.7/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2775363.3/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:114980.4/2

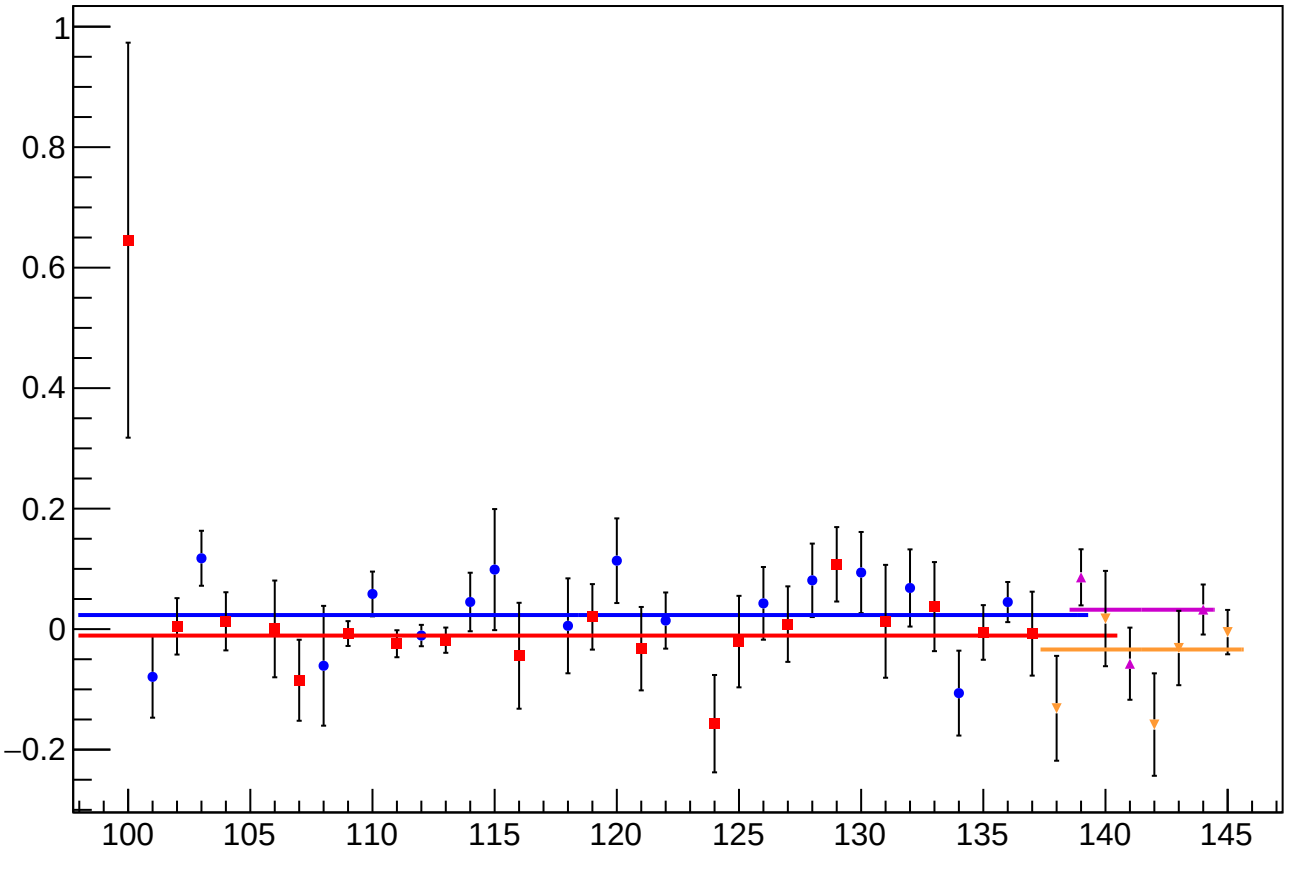
Left: 0.001+/-0.000 $\chi^2$/NDF: 7440146.2/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 4581712.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:1835908.2/18

Out: 0.001+/-0.000 $\chi^2$/NDF:12368001.0/23

All: 0.001+/-0.000 $\chi^2$/NDF: 21834287.4/42




Right In: 0.023+/-0.011 $\chi^2$/NDF: 20.7/15

Left Out: -0.034+/-0.026 $\chi^2$/NDF:4.4/4

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.032+/-0.028 $\chi^2$/NDF:3.6/2

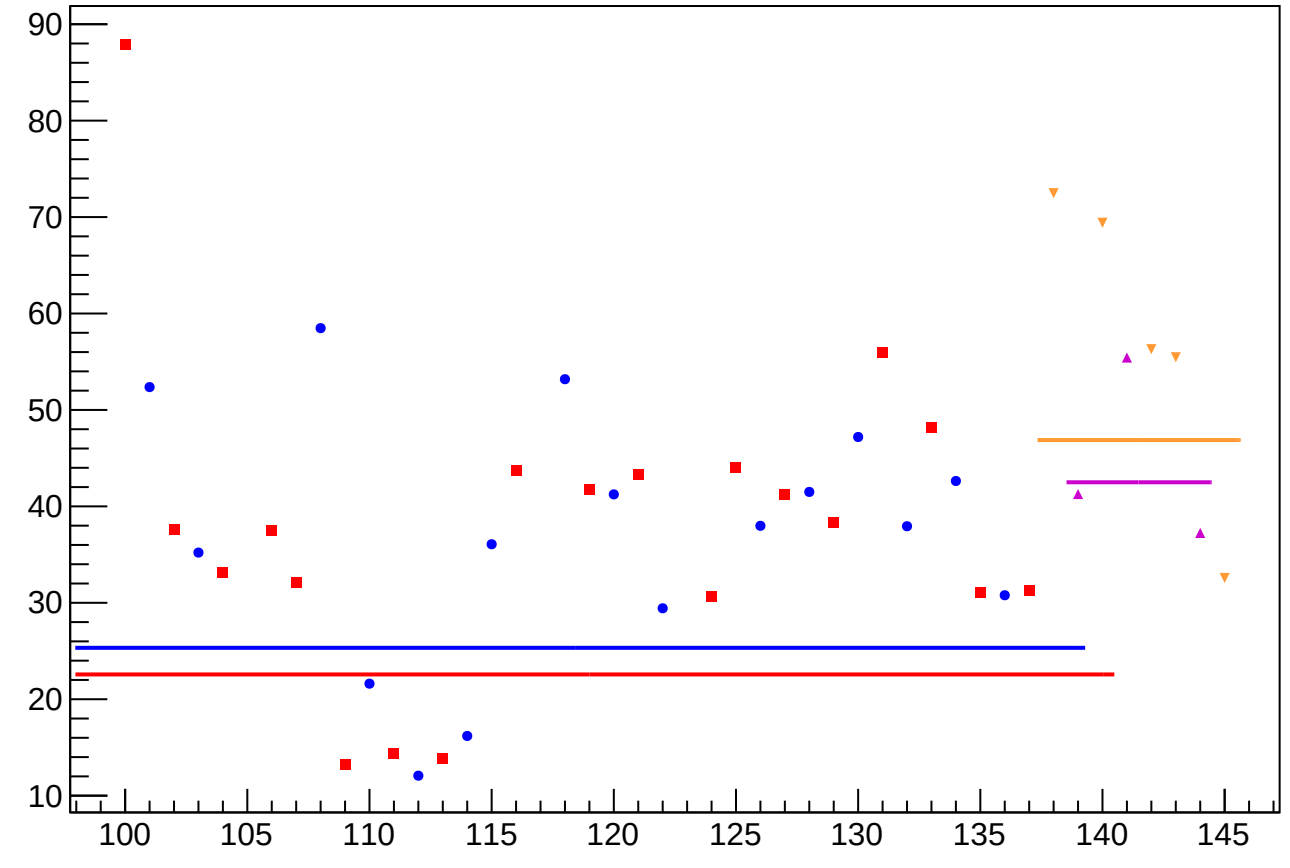
Left: -0.002+/-0.019 $\chi^2$/NDF: 11.0/7

Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.025+/-0.010 $\chi^2$/NDF:24.4/18

Out: -0.013+/-0.009 $\chi^2$/NDF:19.4/23

All: 0.003+/-0.007 $\chi^2$/NDF: 51.4/42




Right In: 25.332+/-0.008 $\chi^2$/NDF: 2925549.0/15

Left Out: 46.876+/-0.019 $\chi^2$/NDF:699969.5/4

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3140082.3/18

Left In: 42.498+/-0.019 $\chi^2$/NDF:126685.4/2

Left: 44.775+/-0.013 $\chi^2$/NDF: 852957.6/7

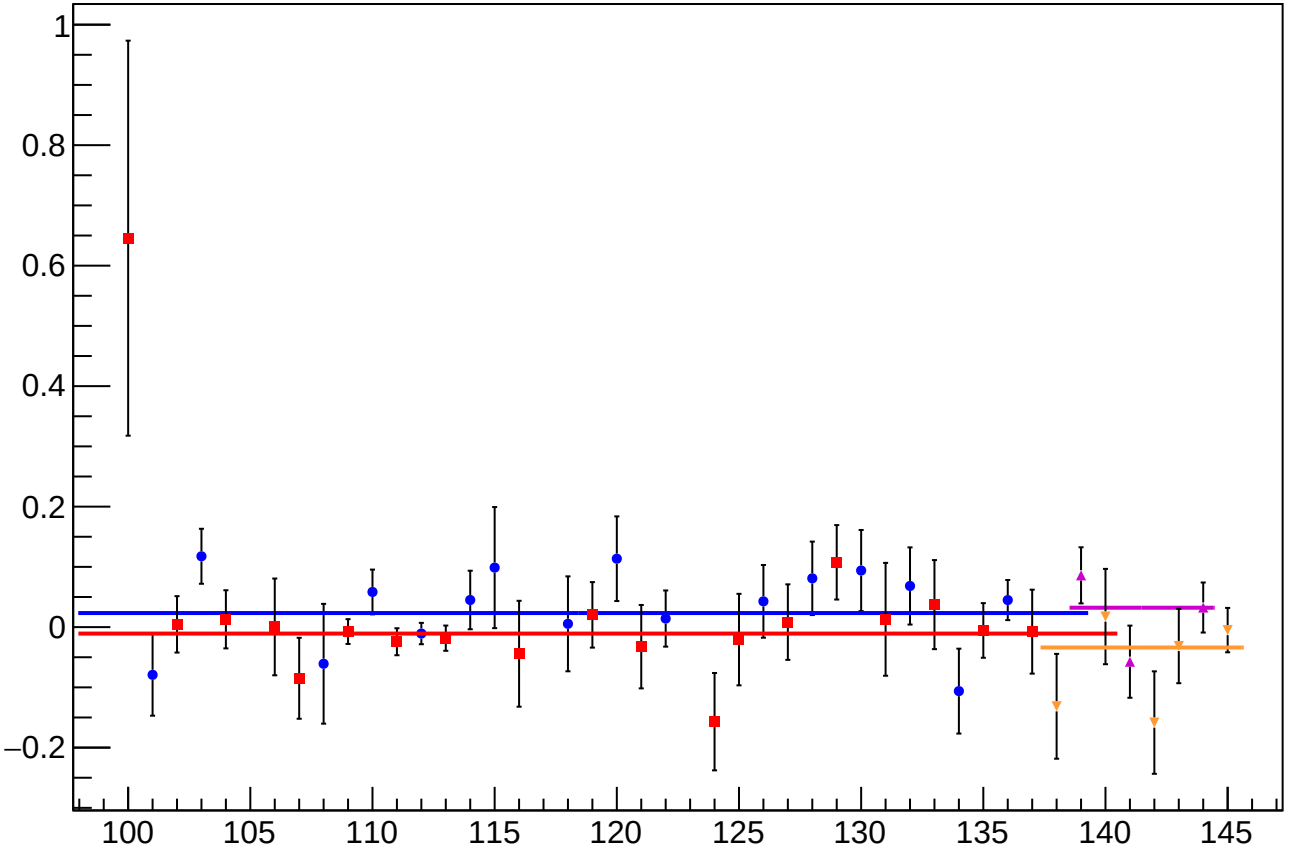
Right: 23.785+/-0.005 $\chi^2$/NDF: 6135400.4/34

In: 27.722+/-0.007 $\chi^2$/NDF:3721803.4/18

Out: 25.506+/-0.006 $\chi^2$/NDF:5325028.8/23

All: 26.492+/-0.005 $\chi^2$/NDF: 9098524.1/42

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: -0.034+/-0.026 $\chi^2$/NDF:4.4/4

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 14.2/18

Left In: 0.032+/-0.028 $\chi^2$/NDF:3.6/2

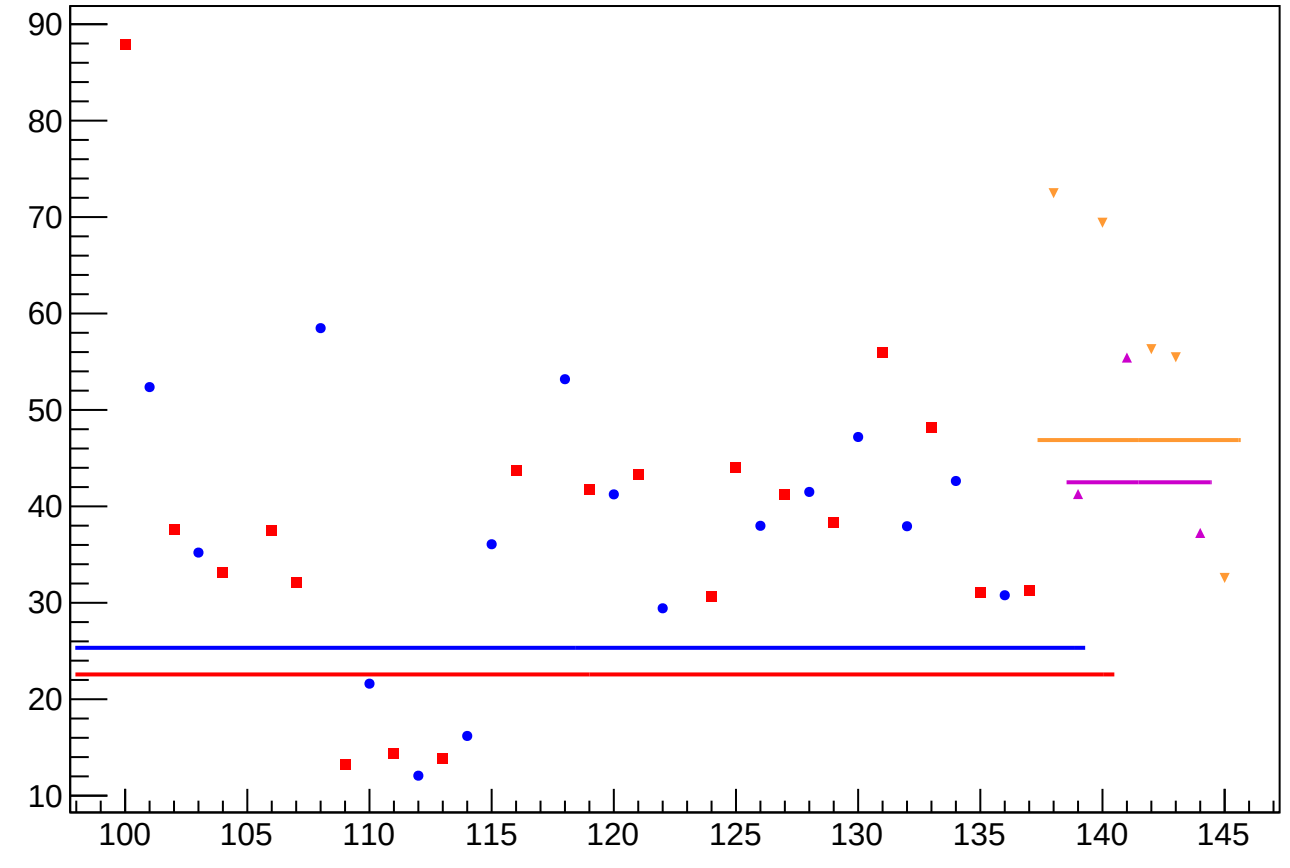
Left: -0.002+/-0.019 $\chi^2$/NDF: 11.0/7

Right: 0.004+/-0.007 $\chi^2$/NDF: 40.3/34

In: 0.025+/-0.010 $\chi^2$/NDF:24.4/18

Out: -0.013+/-0.009 $\chi^2$/NDF:19.4/23

All: 0.003+/-0.007 $\chi^2$/NDF: 51.4/42




Right In: 25.332+/-0.008 $\chi^2$/NDF: 2925549.0/15

Left Out: 46.876+/-0.019 $\chi^2$/NDF:699969.5/4

Right Out: 22.571+/-0.007 $\chi^2$/NDF: 3140082.3/18

Left In: 42.498+/-0.019 $\chi^2$/NDF:126685.4/2

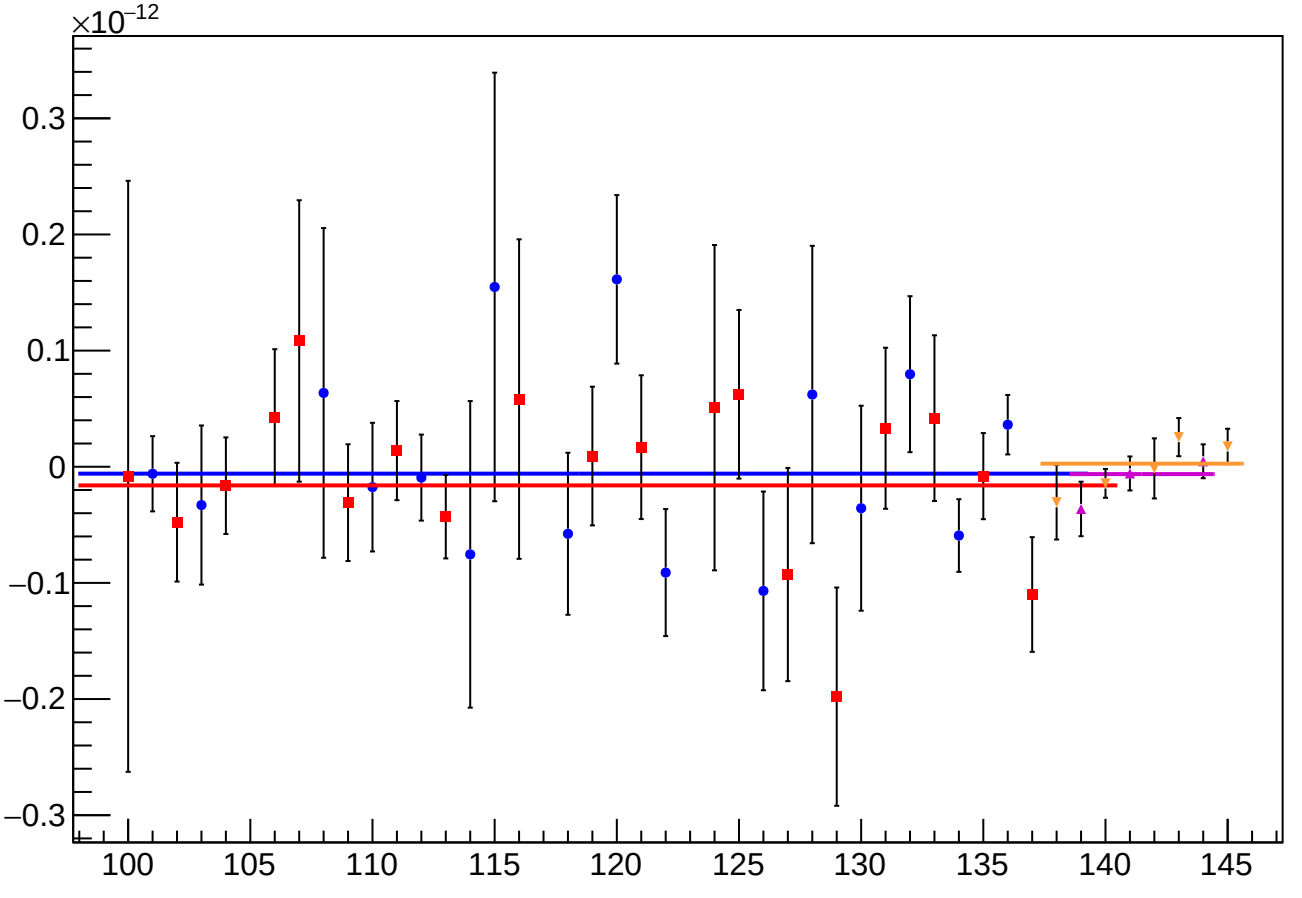
Left: 44.775+/-0.013 $\chi^2$/NDF: 852957.6/7

Right: 23.785+/-0.005 $\chi^2$/NDF: 6135400.4/34

In: 27.722+/-0.007 $\chi^2$/NDF:3721803.4/18

Out: 25.506+/-0.006 $\chi^2$/NDF:5325028.8/23

All: 26.492+/-0.005 $\chi^2$/NDF: 9098524.1/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.8/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.9/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.2/2

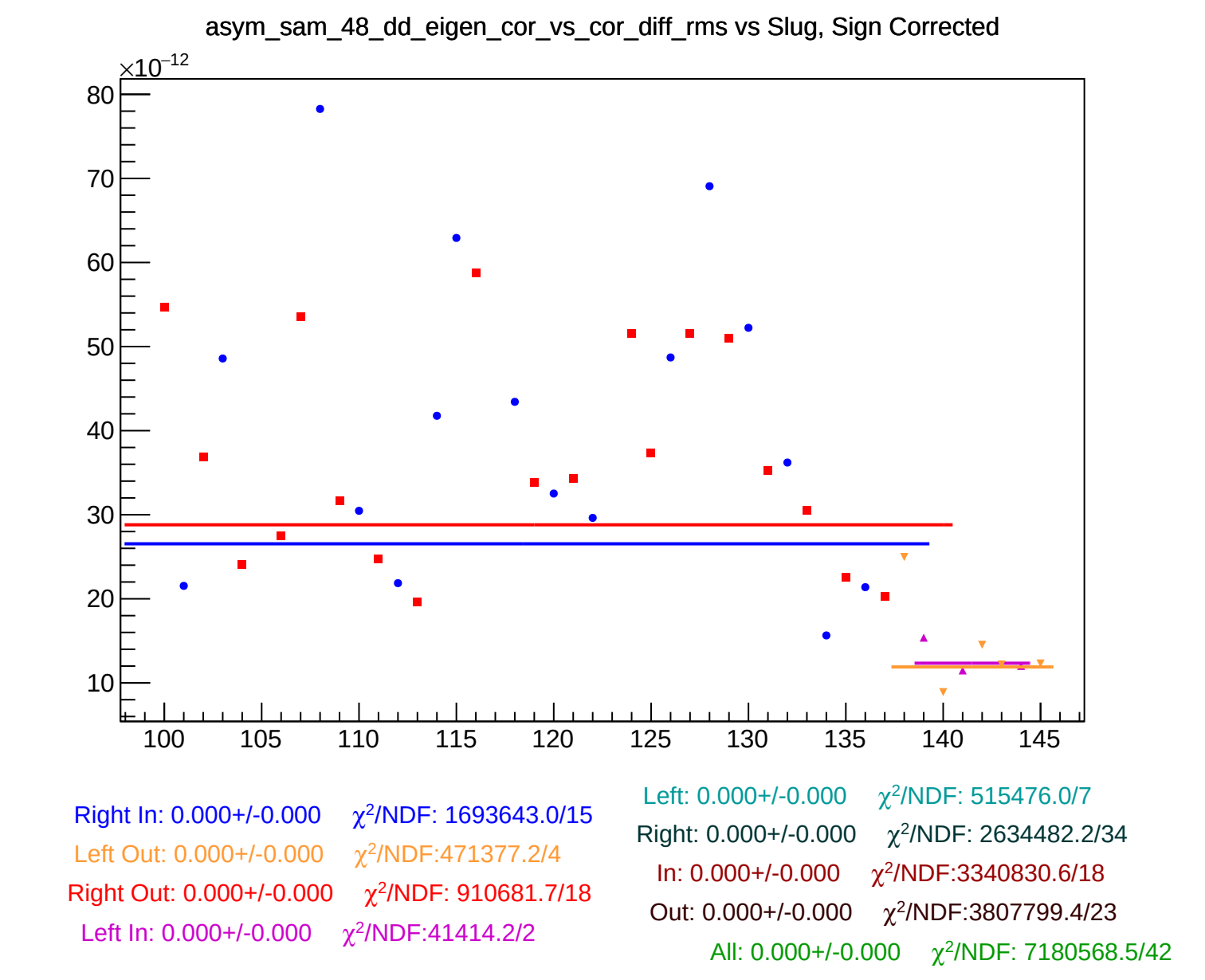
Left: -0.000+/-0.000 $\chi^2$/NDF: 8.6/7

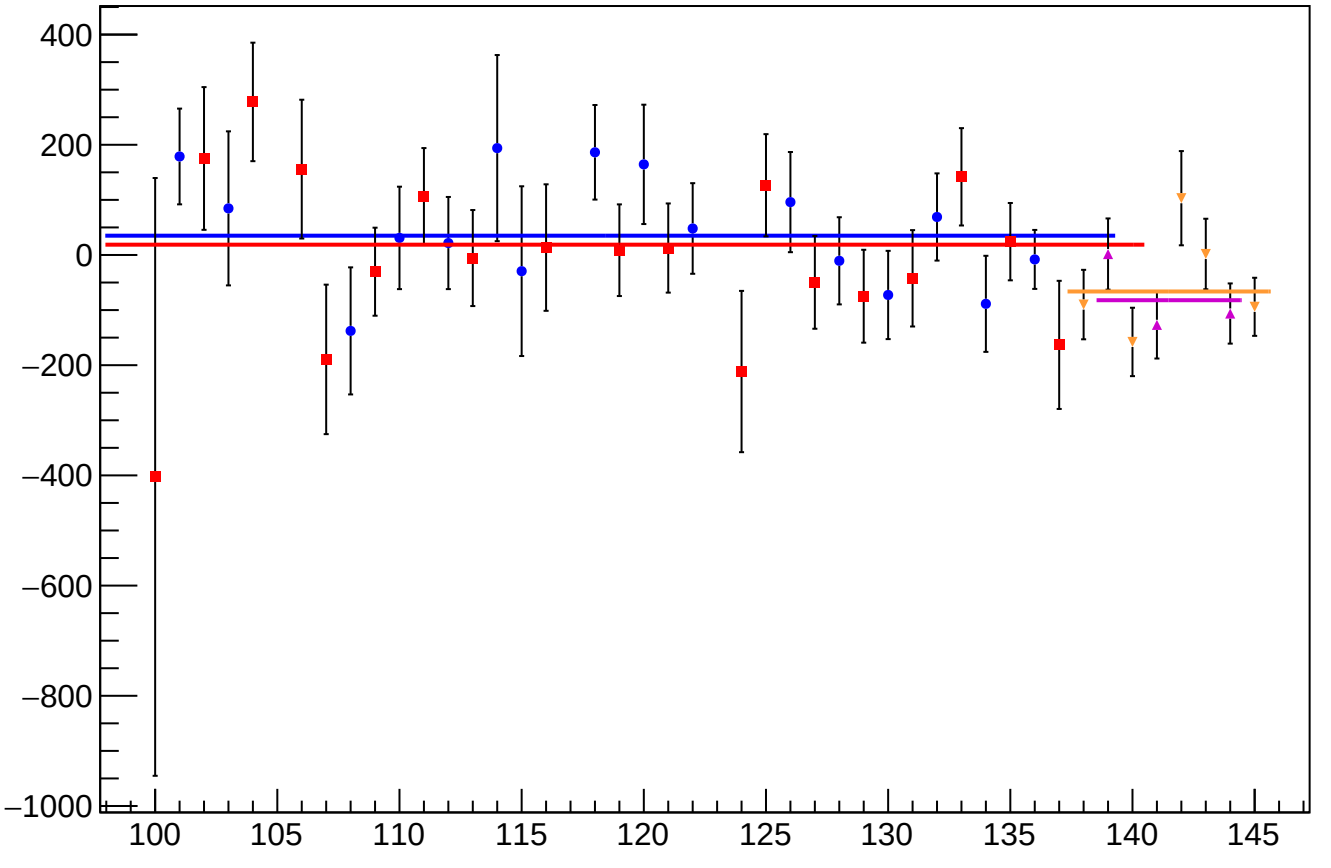
Right: -0.000+/-0.000 $\chi^2$/NDF: 34.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:22.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 43.5/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1693643.0/15
Left Out: 0.000+/-0.000 χ²/NDF:471377.2/4
Right Out: 0.000+/-0.000 χ²/NDF: 910681.7/18
Left In: 0.000+/-0.000 χ²/NDF:41414.2/2
Left: 0.000+/-0.000 χ²/NDF: 515476.0/7
Right: 0.000+/-0.000 χ²/NDF: 2634482.2/34
In: 0.000+/-0.000 χ²/NDF:3340830.6/18
Out: 0.000+/-0.000 χ²/NDF:3807799.4/23
All: 0.000+/-0.000 χ²/NDF: 7180568.5/42




Right In: 35.018+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -66.233+/-28.258 $\chi^2$/NDF:7.6/4

Right Out: 18.690+/-22.137 $\chi^2$/NDF: 23.5/18

Left In: -82.087+/-34.454 $\chi^2$/NDF:2.4/2

Left: -72.609+/-21.849 $\chi^2$/NDF: 10.2/7

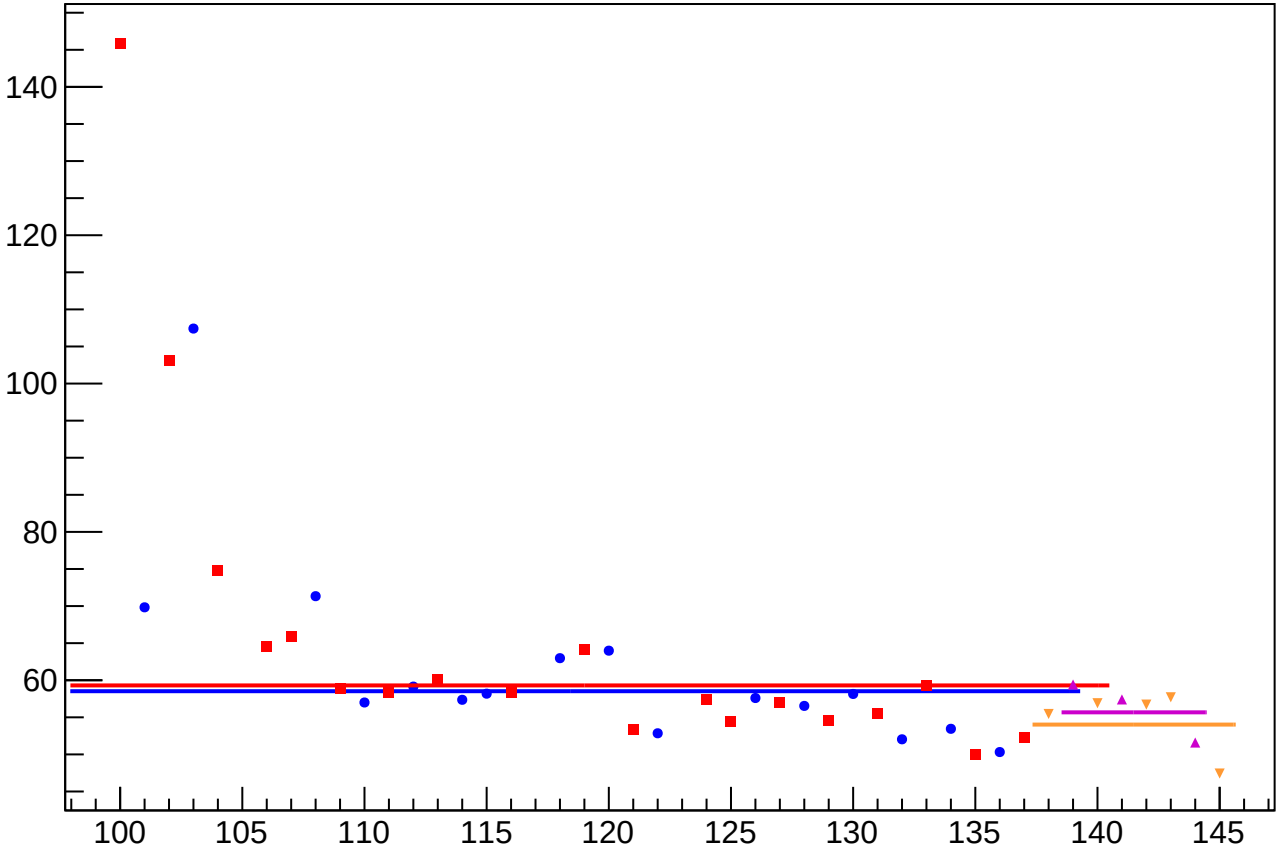
Right: 26.855+/-15.652 $\chi^2$/NDF: 40.0/34

In: 0.807+/-18.623 $\chi^2$/NDF:26.8/18

Out: -13.607+/-17.426 $\chi^2$/NDF:36.8/23

All: -6.878+/-12.724 $\chi^2$/NDF: 63.9/42

# reg_asym_sam_13_57_dd_rms vs Slug, Sign Corrected




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392742.4/15

Left Out: 54.021+/-0.020 $\chi^2$/NDF:45279.8/4

Right Out: 59.301+/-0.016 $\chi^2$/NDF: 406611.5/18

Left In: 55.672+/-0.024 $\chi^2$/NDF:19478.5/2

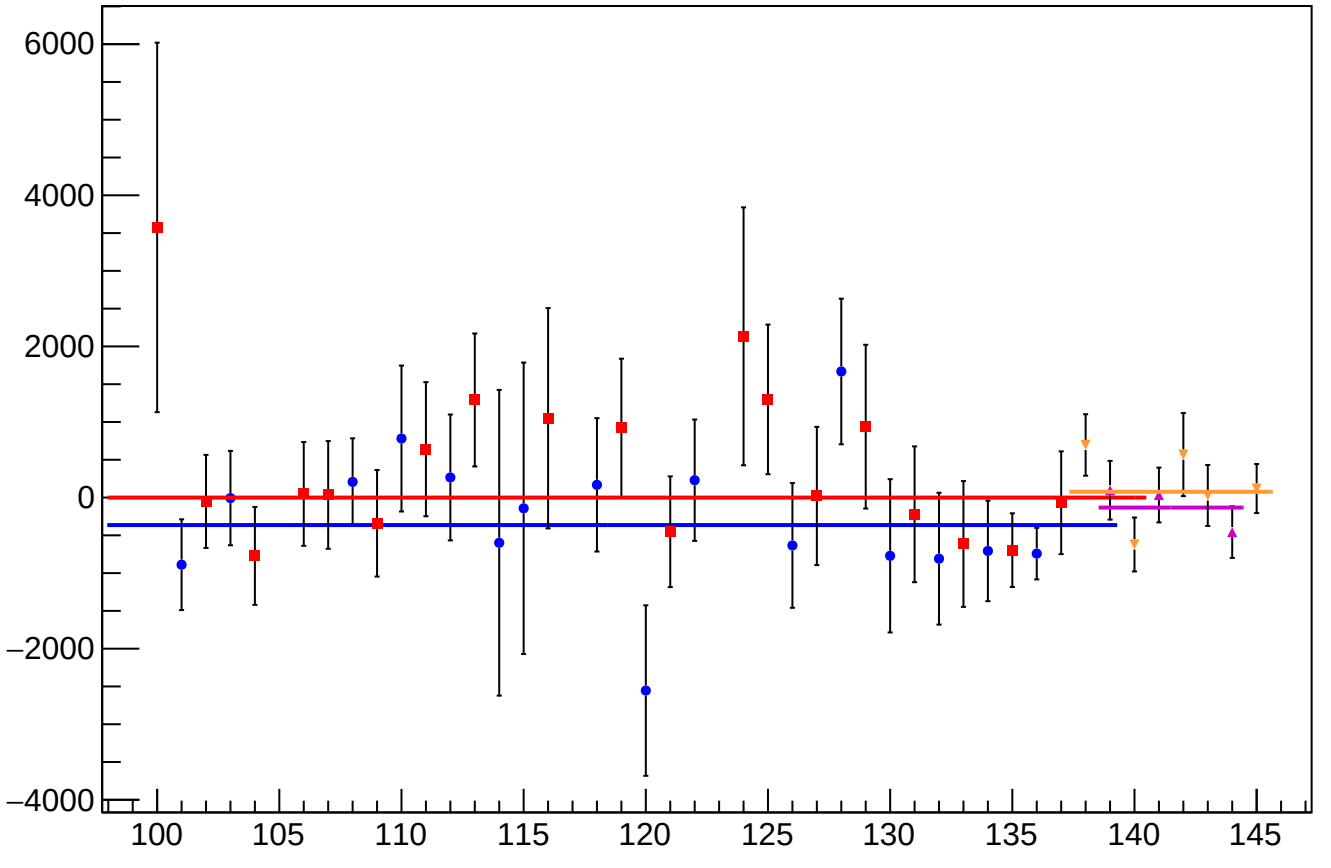
Left: 54.685+/-0.015 $\chi^2$/NDF: 67503.8/7

Right: 58.911+/-0.011 $\chi^2$/NDF: 800594.3/34

In: 57.689+/-0.013 $\chi^2$/NDF:421905.1/18

Out: 57.293+/-0.012 $\chi^2$/NDF:495165.8/23

All: 57.478+/-0.009 $\chi^2$/NDF: 917553.1/42




Right In: -364.076+/-180.601 $\chi^2$/NDF: 15.2/15

Left Out: 76.454+/-174.484 $\chi^2$/NDF:7.0/4

Right Out: -0.570+/-183.085 $\chi^2$/NDF: 15.1/18

Left In: -132.778+/-209.438 $\chi^2$/NDF:1.5/2

Left: -9.269+/-134.058 $\chi^2$/NDF: 9.0/7

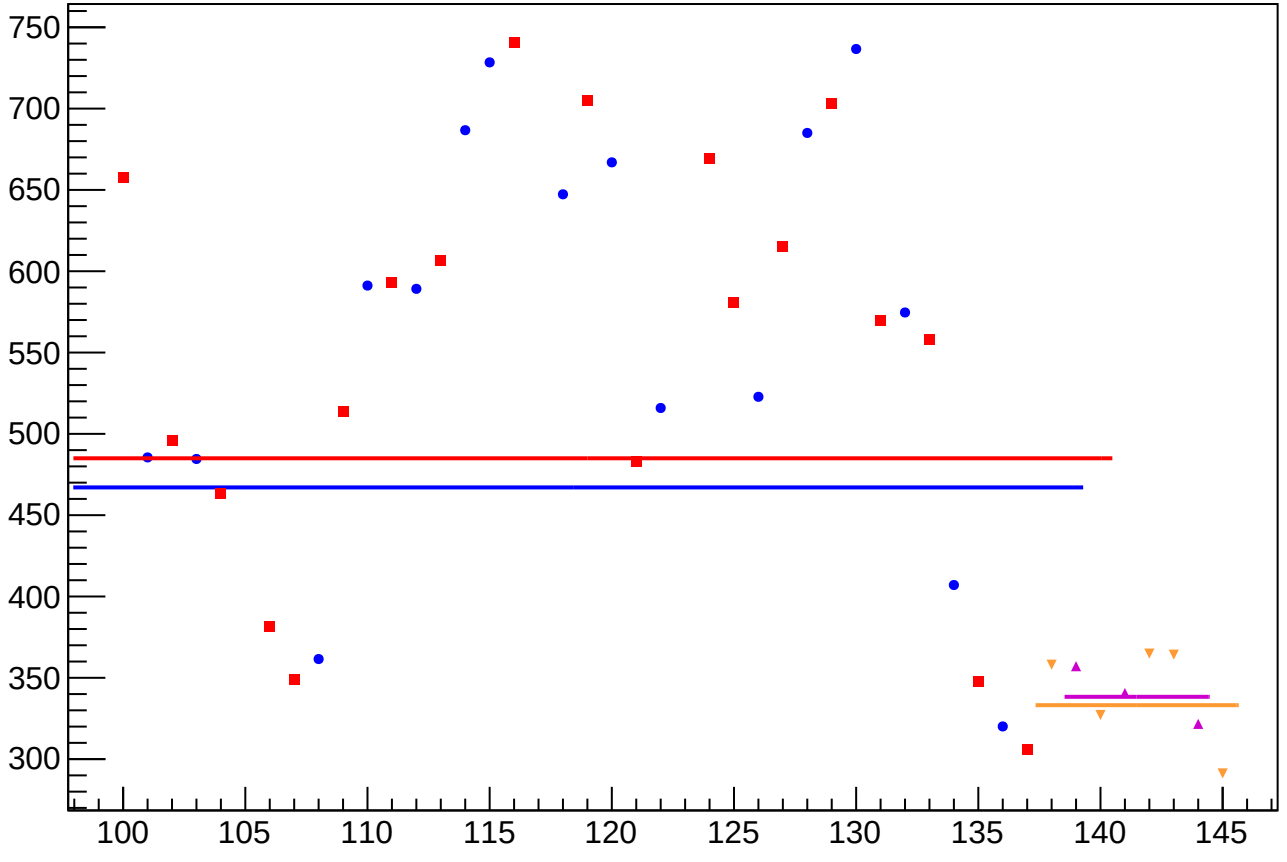
Right: -184.806+/-128.573 $\chi^2$/NDF: 32.3/34

In: -265.435+/-136.772 $\chi^2$/NDF:17.4/18

Out: 39.794+/-126.310 $\chi^2$/NDF:22.1/23

All: -100.701+/-92.793 $\chi^2$/NDF: 42.2/42

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: 333.169+/-0.123 $\chi^2$/NDF:60017.5/4

Right Out: 484.982+/-0.129 $\chi^2$/NDF: 874102.2/18

Left In: 338.311+/-0.148 $\chi^2$/NDF:9512.5/2

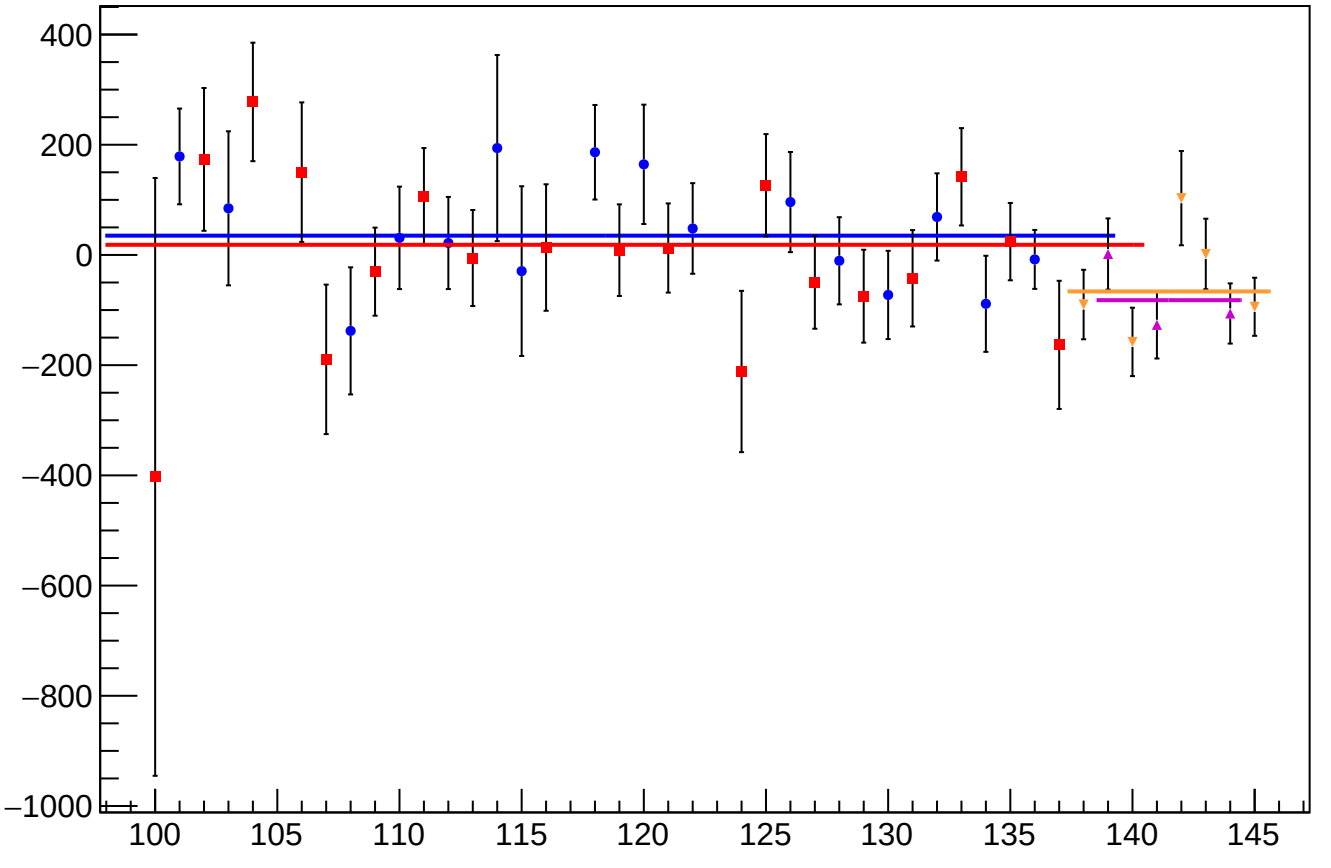
Left: 335.276+/-0.095 $\chi^2$/NDF: 70241.7/7

Right: 475.902+/-0.091 $\chi^2$/NDF: 1914085.4/34

In: 412.157+/-0.097 $\chi^2$/NDF:1473319.8/18

Out: 405.426+/-0.089 $\chi^2$/NDF:1654733.9/23

All: 408.524+/-0.066 $\chi^2$/NDF: 3130668.4/42




Right In: 35.017+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -66.233+/-28.258 $\chi^2$/NDF:7.6/4

Right Out: 18.417+/-22.141 $\chi^2$/NDF: 23.4/18

Left In: -82.086+/-34.454 $\chi^2$/NDF:2.4/2

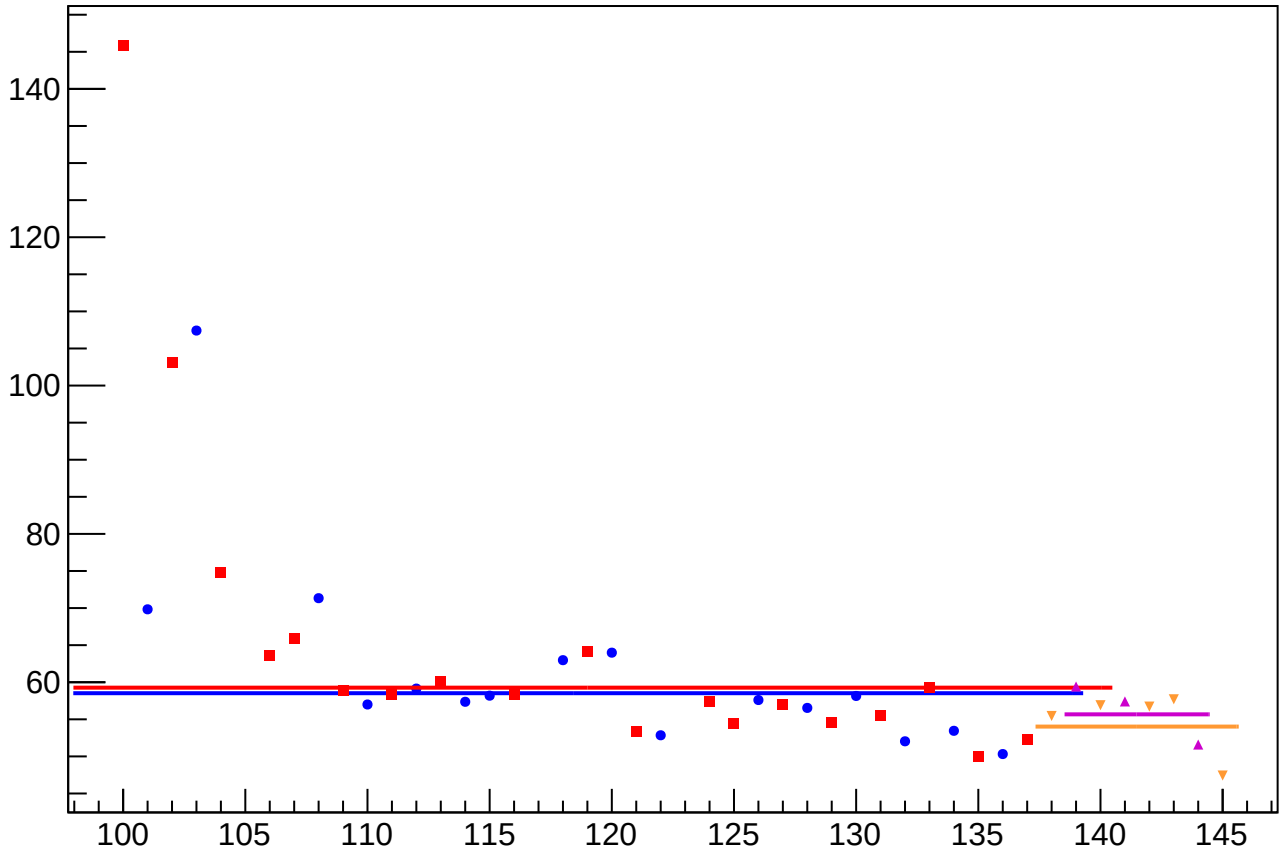
Left: -72.608+/-21.849 $\chi^2$/NDF: 10.2/7

Right: 26.719+/-15.654 $\chi^2$/NDF: 39.8/34

In: 0.806+/-18.623 $\chi^2$/NDF:26.8/18

Out: -13.784+/-17.428 $\chi^2$/NDF:36.6/23

All: -6.972+/-12.725 $\chi^2$/NDF: 63.7/42




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392744.5/15

Left Out: 54.021+/-0.020 $\chi^2$/NDF:45279.8/4

Right Out: 59.269+/-0.016 $\chi^2$/NDF: 405616.3/18

Left In: 55.672+/-0.024 $\chi^2$/NDF:19478.5/2

Left: 54.685+/-0.015 $\chi^2$/NDF: 67503.8/7

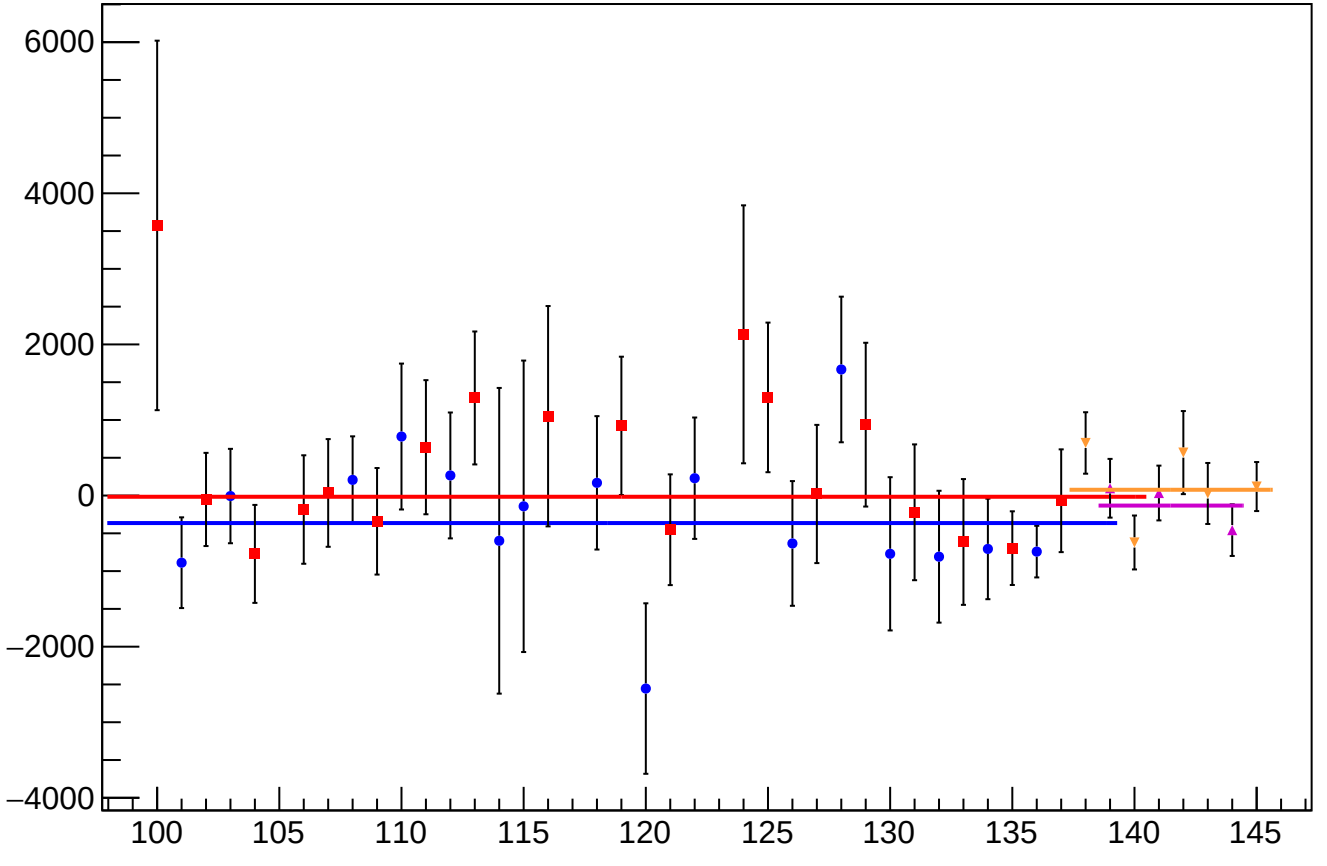
Right: 58.895+/-0.011 $\chi^2$/NDF: 799501.8/34

In: 57.689+/-0.013 $\chi^2$/NDF:421907.2/18

Out: 57.273+/-0.012 $\chi^2$/NDF:493644.5/23

All: 57.467+/-0.009 $\chi^2$/NDF: 916084.2/42

asym_sam_13_57_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: -364.040+/-180.602 $\chi^2$/NDF: 15.2/15

Left Out: 76.451+/-174.484 $\chi^2$/NDF:7.0/4

Right Out: -16.087+/-183.650 $\chi^2$/NDF: 15.1/18

Left In: -132.771+/-209.438 $\chi^2$/NDF:1.5/2

Left: -9.268+/-134.058 $\chi^2$/NDF: 9.0/7

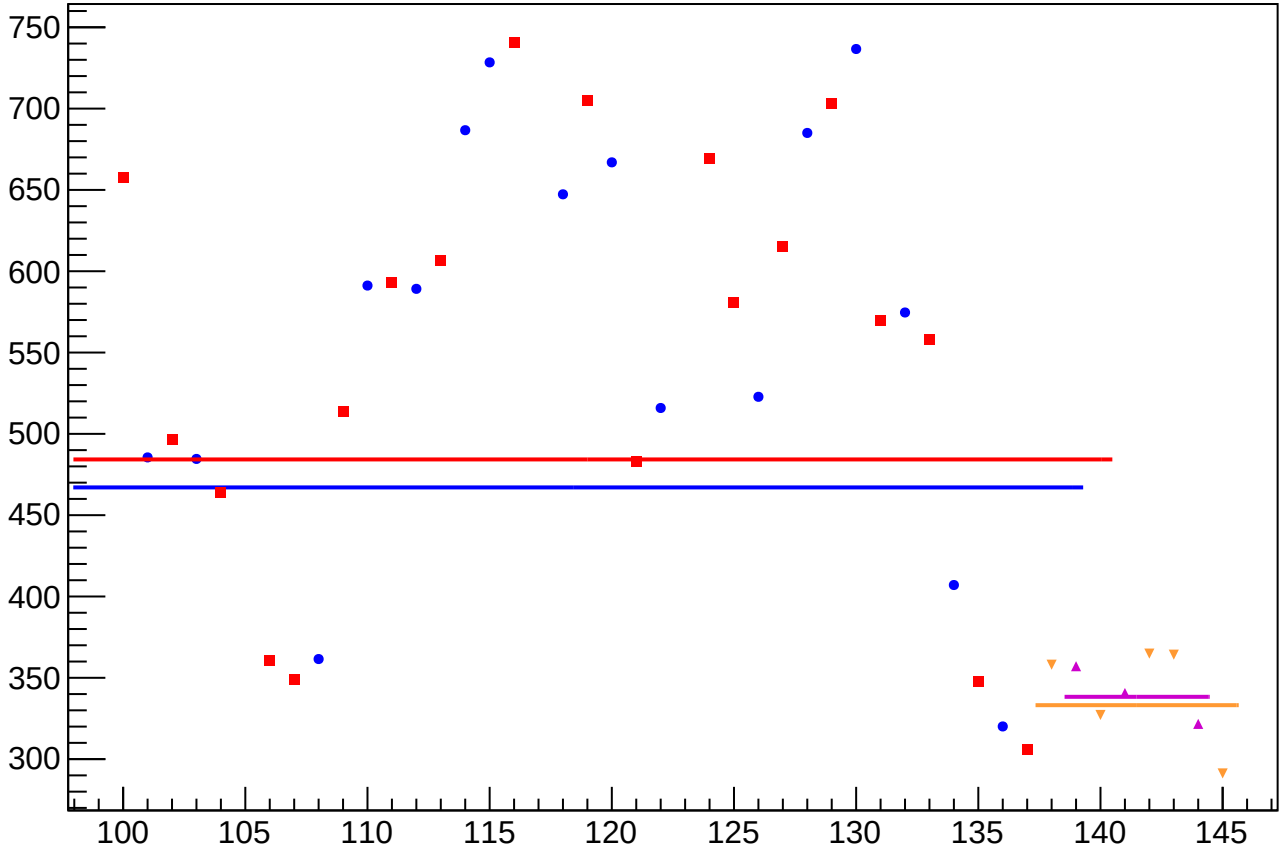
Right: -192.975+/-128.769 $\chi^2$/NDF: 32.2/34

In: -265.411+/-136.773 $\chi^2$/NDF:17.4/18

Out: 32.549+/-126.495 $\chi^2$/NDF:22.2/23

All: -104.817+/-92.867 $\chi^2$/NDF: 42.2/42

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: 333.169+/-0.123 $\chi^2$/NDF:60018.1/4

Right Out: 484.274+/-0.130 $\chi^2$/NDF: 888797.2/18

Left In: 338.311+/-0.148 $\chi^2$/NDF:9512.4/2

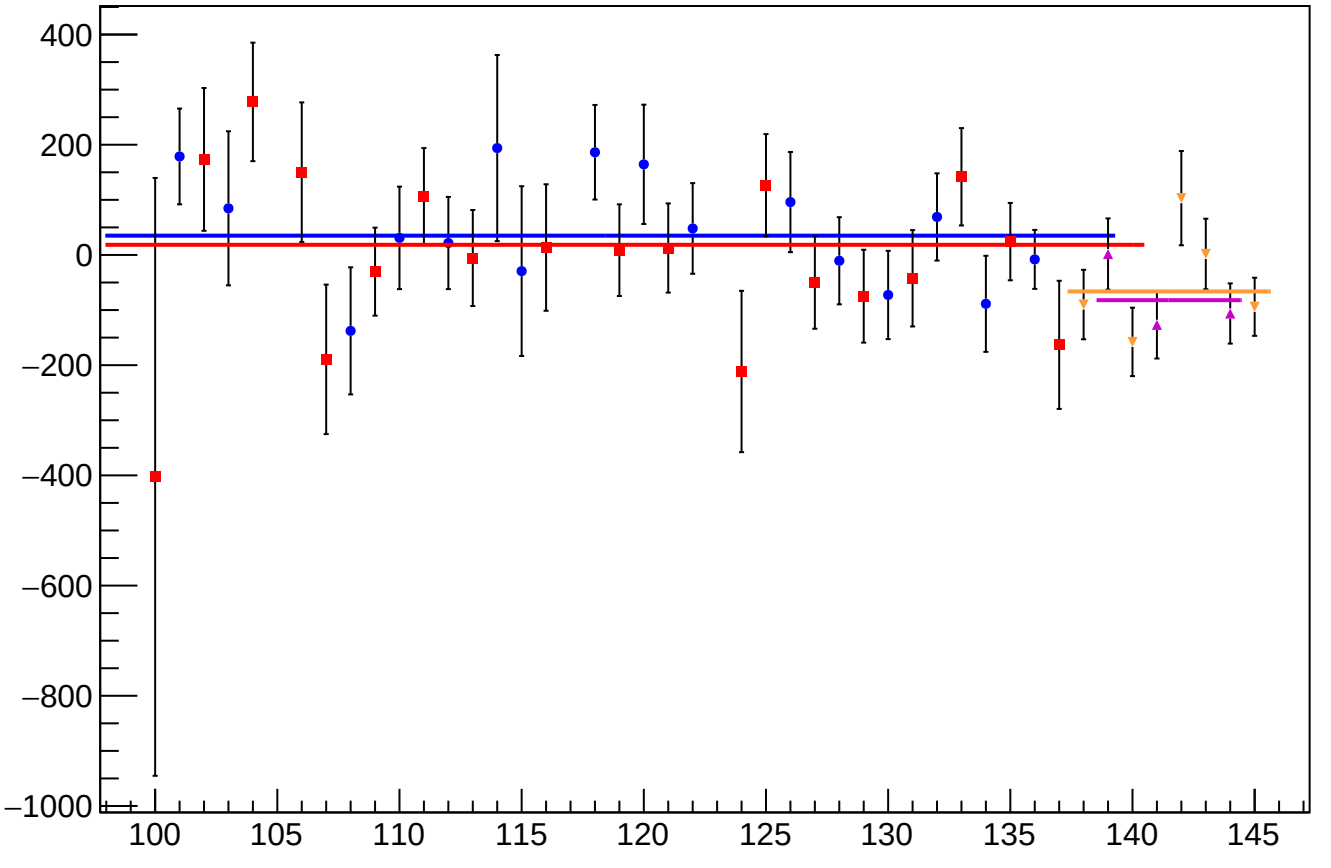
Left: 335.276+/-0.095 $\chi^2$/NDF: 70242.1/7

Right: 475.528+/-0.091 $\chi^2$/NDF: 1928000.1/34

In: 412.159+/-0.097 $\chi^2$/NDF:1473337.1/18

Out: 404.857+/-0.089 $\chi^2$/NDF:1660418.7/23

All: 408.223+/-0.066 $\chi^2$/NDF: 3136828.3/42




Right In: 35.017+/-22.134 $\chi^2$/NDF: 16.2/15

Left Out: -66.233+/-28.258 $\chi^2$/NDF:7.6/4

Right Out: 18.417+/-22.141 $\chi^2$/NDF: 23.4/18

Left In: -82.086+/-34.454 $\chi^2$/NDF:2.4/2

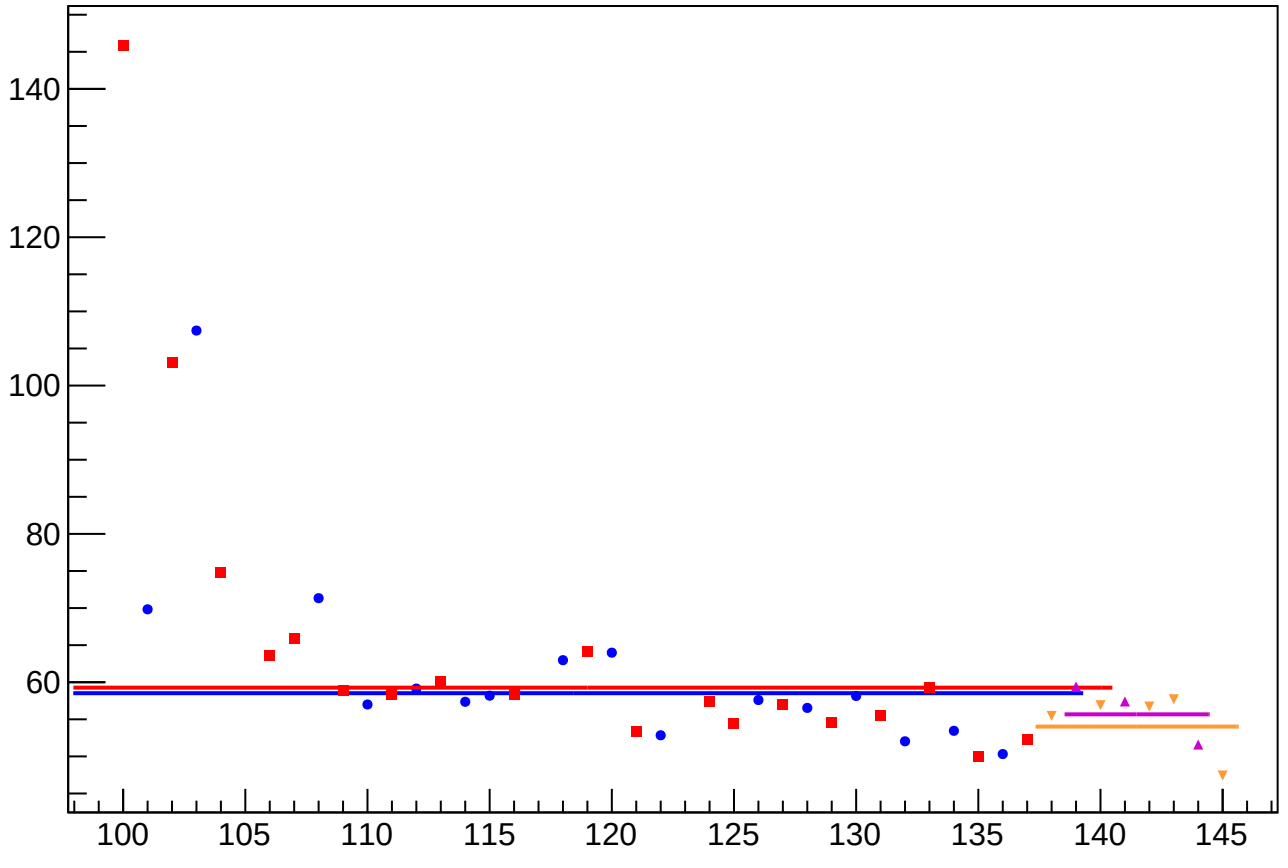
Left: -72.608+/-21.849 $\chi^2$/NDF: 10.2/7

Right: 26.719+/-15.654 $\chi^2$/NDF: 39.8/34

In: 0.806+/-18.623 $\chi^2$/NDF:26.8/18

Out: -13.784+/-17.428 $\chi^2$/NDF:36.6/23

All: -6.972+/-12.725 $\chi^2$/NDF: 63.7/42




Right In: 58.522+/-0.016 $\chi^2$/NDF: 392744.5/15

Left Out: 54.021+/-0.020 $\chi^2$/NDF:45279.8/4

Right Out: 59.269+/-0.016 $\chi^2$/NDF: 405616.3/18

Left In: 55.672+/-0.024 $\chi^2$/NDF:19478.5/2

Left: 54.685+/-0.015 $\chi^2$/NDF: 67503.8/7

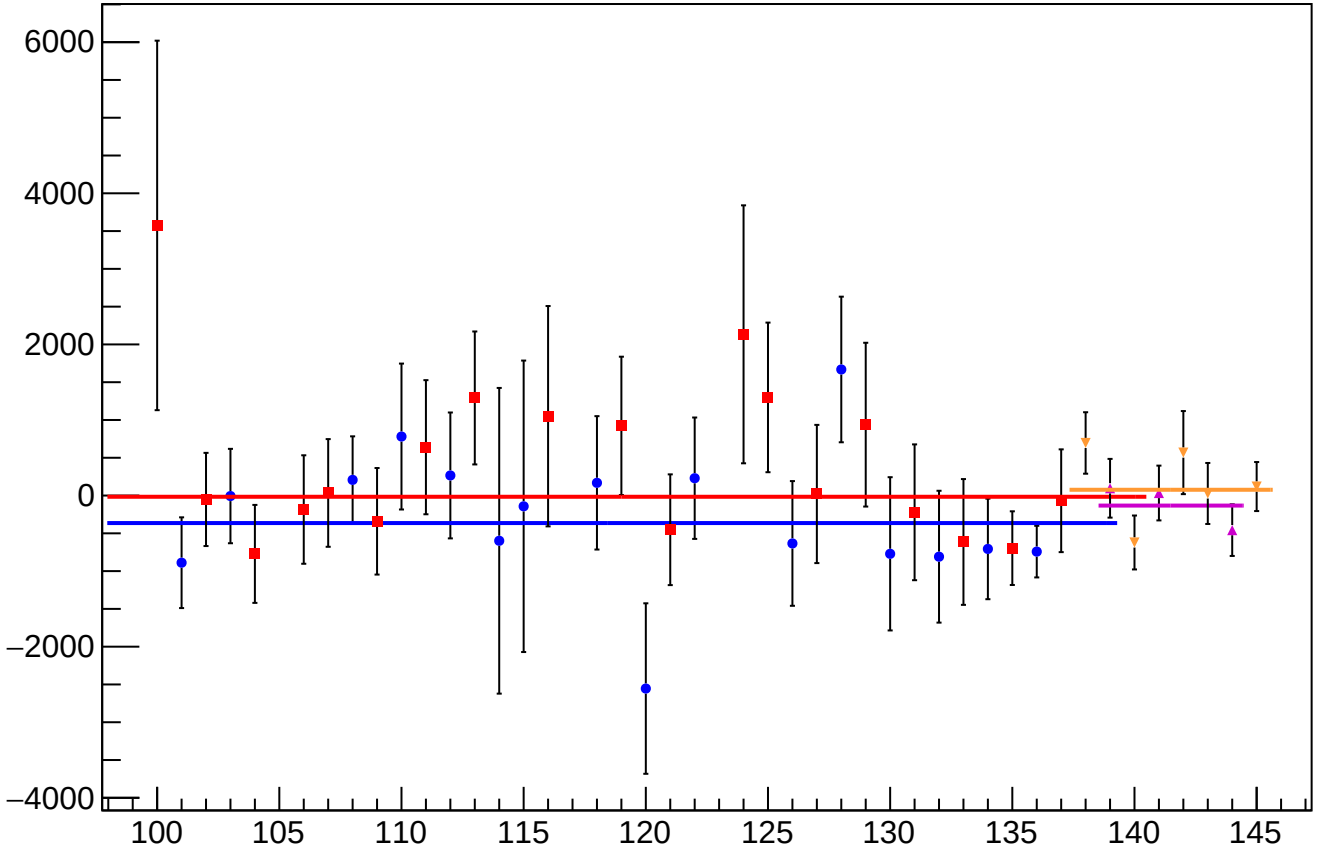
Right: 58.895+/-0.011 $\chi^2$/NDF: 799501.8/34

In: 57.689+/-0.013 $\chi^2$/NDF:421907.2/18

Out: 57.273+/-0.012 $\chi^2$/NDF:493644.5/23

All: 57.467+/-0.009 $\chi^2$/NDF: 916084.2/42

asym_sam_13_57_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -364.040+/-180.602 $\chi^2$/NDF: 15.2/15

Left Out: 76.451+/-174.484 $\chi^2$/NDF:7.0/4

Right Out: -16.087+/-183.650 $\chi^2$/NDF: 15.1/18

Left In: -132.771+/-209.438 $\chi^2$/NDF:1.5/2

Left: -9.268+/-134.058 $\chi^2$/NDF: 9.0/7

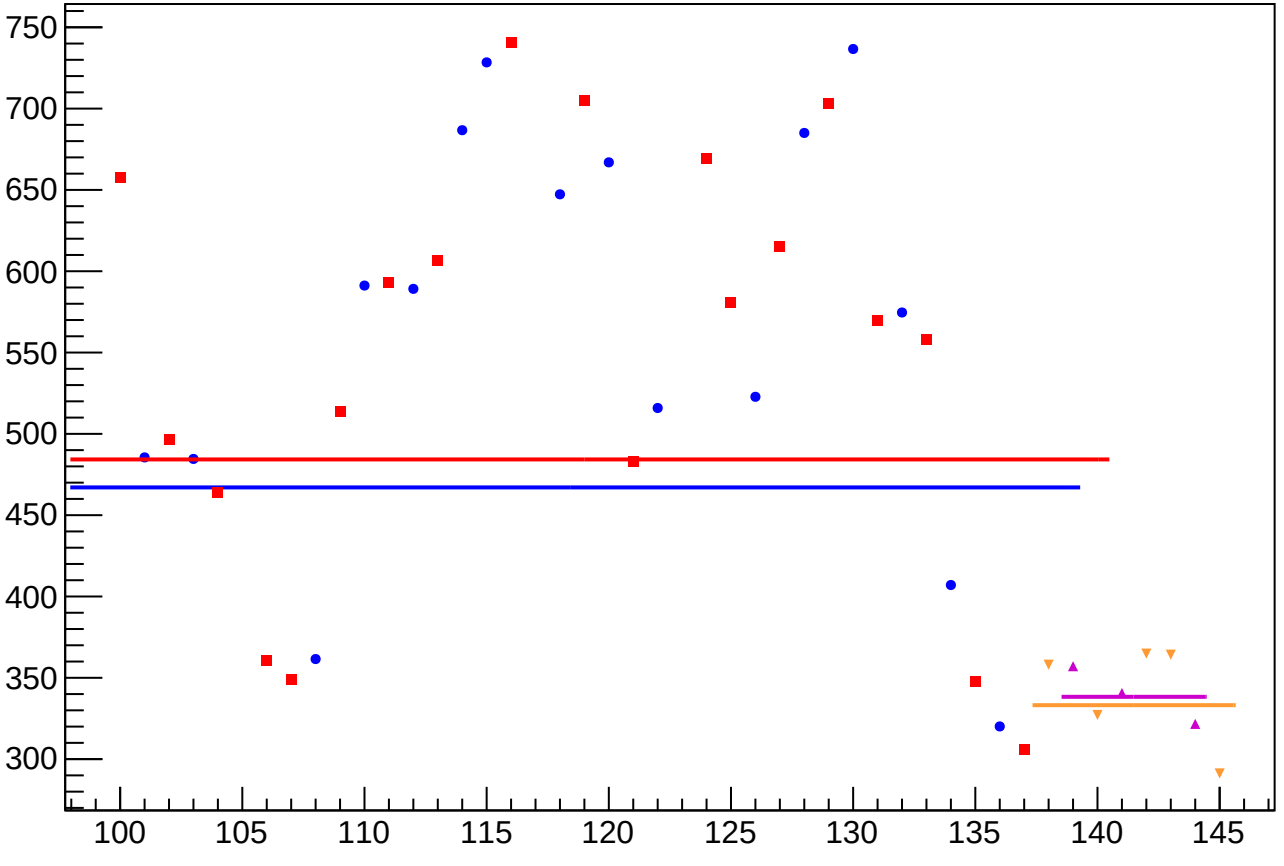
Right: -192.975+/-128.769 $\chi^2$/NDF: 32.2/34

In: -265.411+/-136.773 $\chi^2$/NDF:17.4/18

Out: 32.549+/-126.495 $\chi^2$/NDF:22.2/23

All: -104.817+/-92.867 $\chi^2$/NDF: 42.2/42

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: 333.169+/-0.123 $\chi^2$/NDF:60018.1/4

Right Out: 484.274+/-0.130 $\chi^2$/NDF: 888797.2/18

Left In: 338.311+/-0.148 $\chi^2$/NDF:9512.4/2

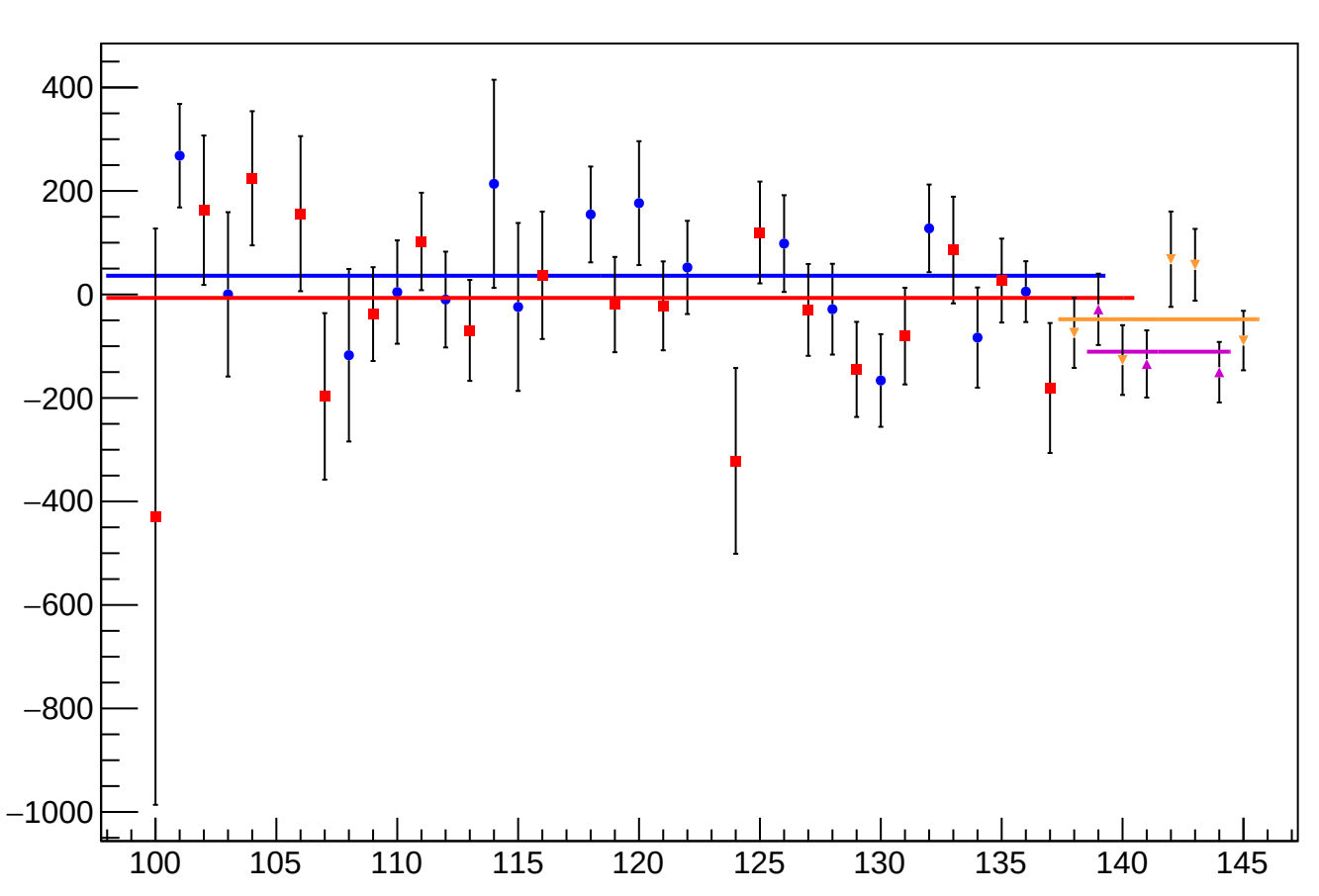
Left: 335.276+/-0.095 $\chi^2$/NDF: 70242.1/7

Right: 475.528+/-0.091 $\chi^2$/NDF: 1928000.1/34

In: 412.159+/-0.097 $\chi^2$/NDF:1473337.1/18

Out: 404.857+/-0.089 $\chi^2$/NDF:1660418.7/23

All: 408.223+/-0.066 $\chi^2$/NDF: 3136828.3/42




Right In: 36.157+/-24.471 $\chi^2$/NDF: 19.6/15

Left Out: -47.910+/-30.612 $\chi^2$/NDF:5.9/4

Right Out: -6.734+/-24.565 $\chi^2$/NDF: 20.3/18

Left In: -110.596+/-36.748 $\chi^2$/NDF:2.0/2

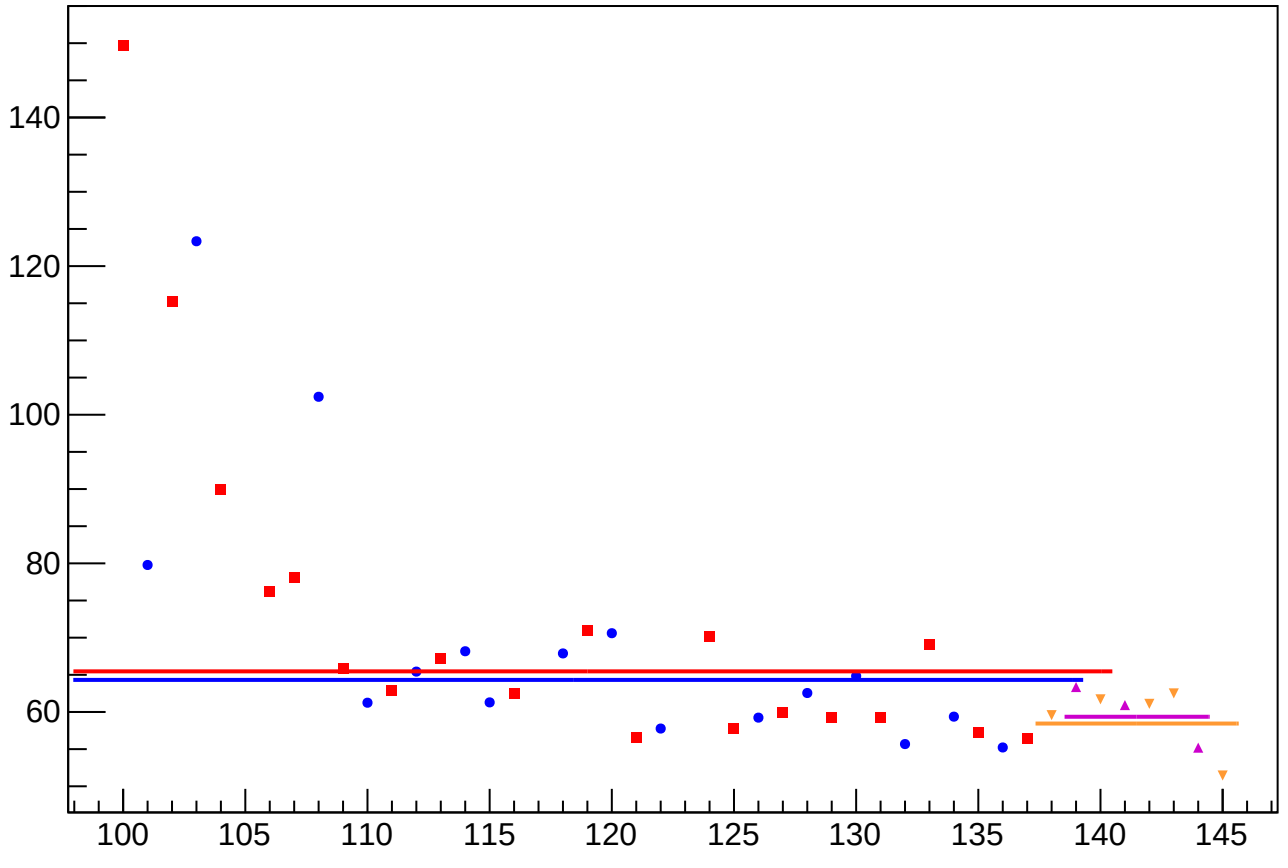
Left: -73.591+/-23.520 $\chi^2$/NDF: 9.6/7

Right: 14.793+/-17.337 $\chi^2$/NDF: 41.5/34

In: -8.929+/-20.368 $\chi^2$/NDF:32.7/18

Out: -22.863+/-19.159 $\chi^2$/NDF:27.4/23

All: -16.322+/-13.955 $\chi^2$/NDF: 60.3/42




Right In: 64.316+/-0.017 $\chi^2$/NDF: 532065.0/15

Left Out: 58.443+/-0.022 $\chi^2$/NDF:43342.4/4

Right Out: 65.466+/-0.017 $\chi^2$/NDF: 482361.0/18

Left In: 59.357+/-0.026 $\chi^2$/NDF:18021.4/2

Left: 58.818+/-0.017 $\chi^2$/NDF: 62093.9/7

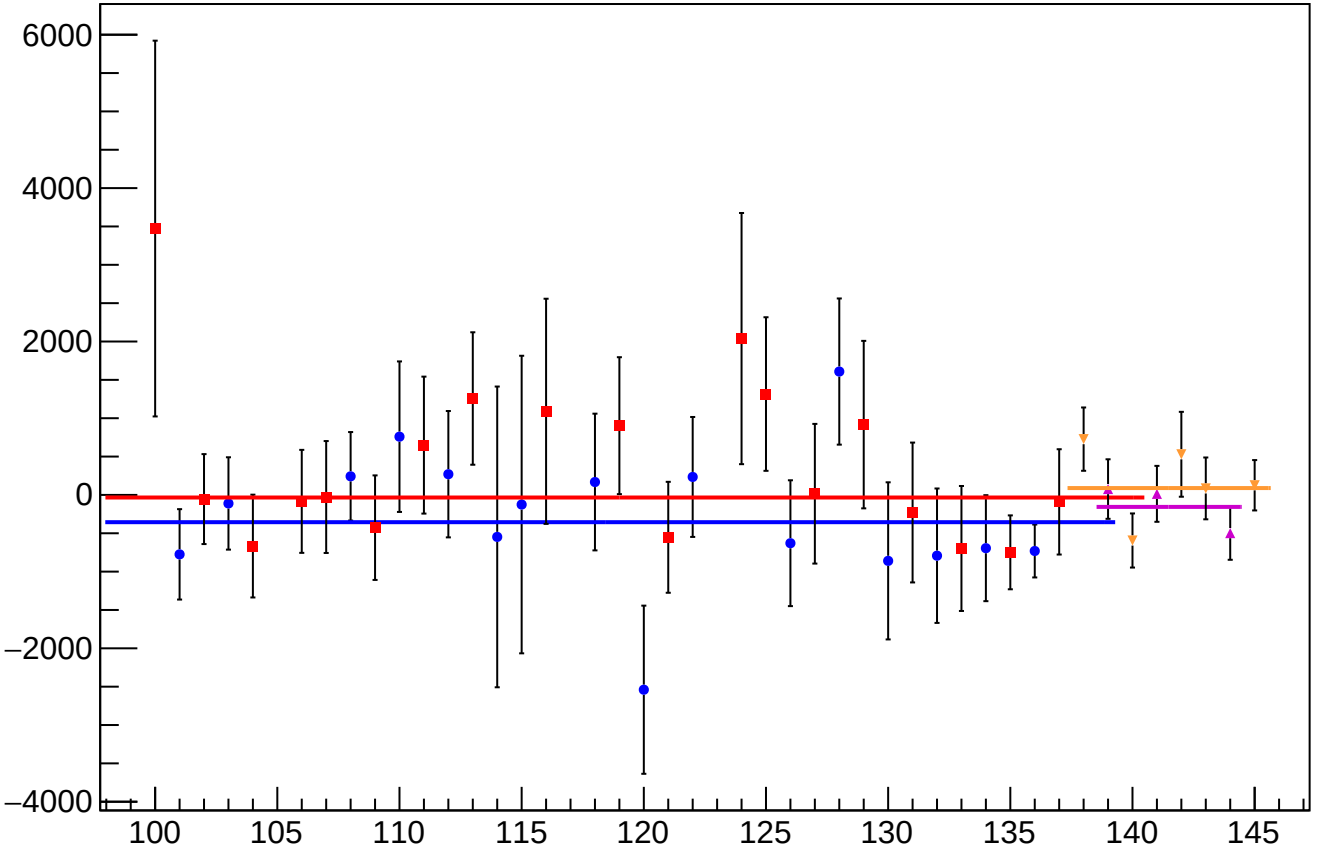
Right: 64.889+/-0.012 $\chi^2$/NDF: 1016625.1/34

In: 62.793+/-0.014 $\chi^2$/NDF:575318.4/18

Out: 62.715+/-0.014 $\chi^2$/NDF:589728.4/23

All: 62.752+/-0.010 $\chi^2$/NDF: 1165062.2/42

asym_sam_13_57_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: -355.529+/-180.335 $\chi^2$/NDF: 14.8/15

Left Out: 89.357+/-175.112 $\chi^2$/NDF:6.8/4

Right Out: -33.786+/-181.561 $\chi^2$/NDF: 15.4/18

Left In: -156.213+/-211.151 $\chi^2$/NDF:1.5/2

Left: -10.714+/-134.791 $\chi^2$/NDF: 9.1/7

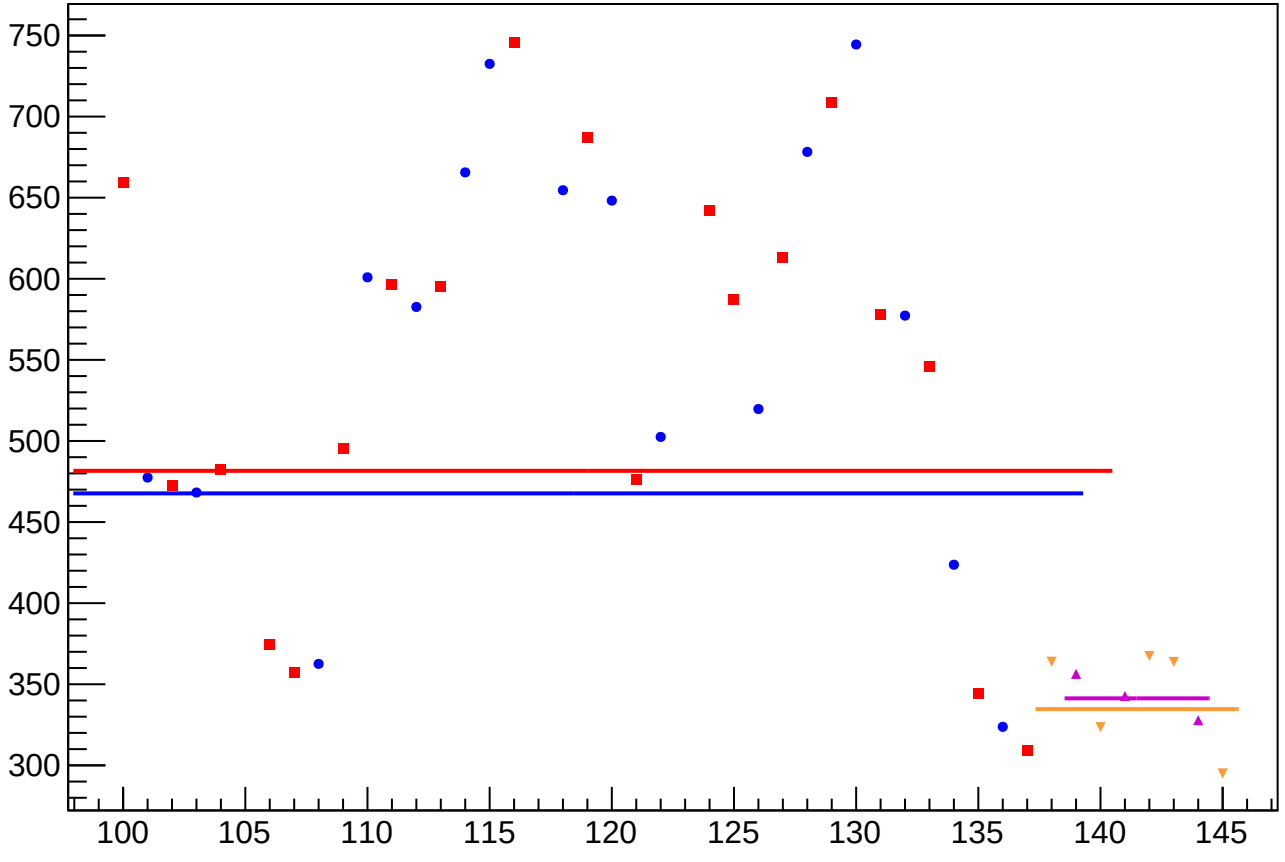
Right: -195.748+/-127.947 $\chi^2$/NDF: 31.8/34

In: -271.464+/-137.129 $\chi^2$/NDF:16.9/18

Out: 30.011+/-126.041 $\chi^2$/NDF:22.4/23

All: -108.047+/-92.797 $\chi^2$/NDF: 41.9/42

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: 334.669+/-0.124 $\chi^2$/NDF:58610.5/4

Right Out: 481.599+/-0.128 $\chi^2$/NDF: 854281.1/18

Left In: 341.304+/-0.149 $\chi^2$/NDF:6052.5/2

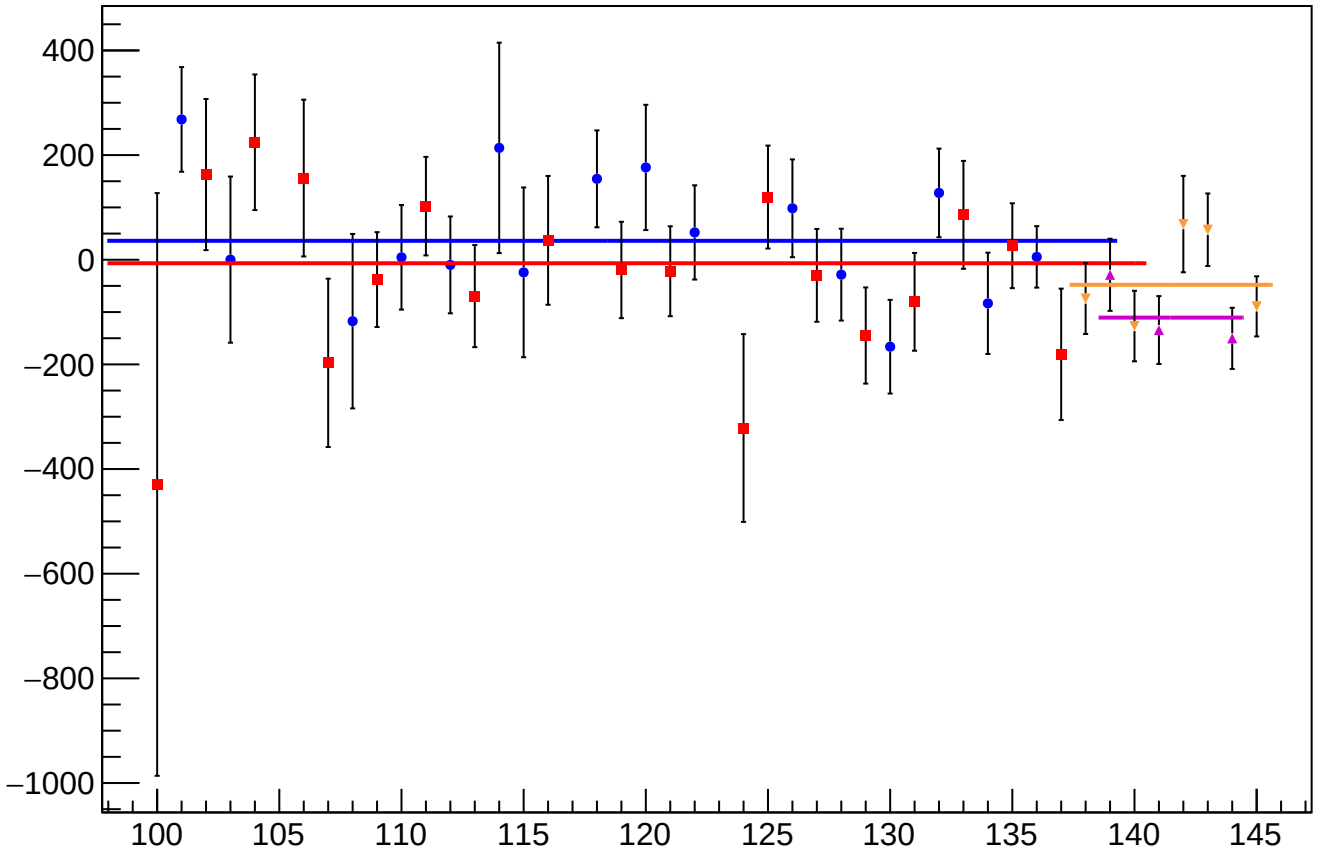
Left: 337.373+/-0.095 $\chi^2$/NDF: 65833.2/7

Right: 474.590+/-0.090 $\chi^2$/NDF: 1846147.0/34

In: 414.376+/-0.097 $\chi^2$/NDF:1406220.0/18

Out: 405.479+/-0.089 $\chi^2$/NDF:1591474.1/23

All: 409.553+/-0.066 $\chi^2$/NDF: 3002257.6/42




Right In: 36.157+/-24.471 $\chi^2$/NDF: 19.6/15

Left Out: -47.910+/-30.612 $\chi^2$/NDF:5.9/4

Right Out: -6.735+/-24.565 $\chi^2$/NDF: 20.3/18

Left In: -110.596+/-36.748 $\chi^2$/NDF:2.0/2

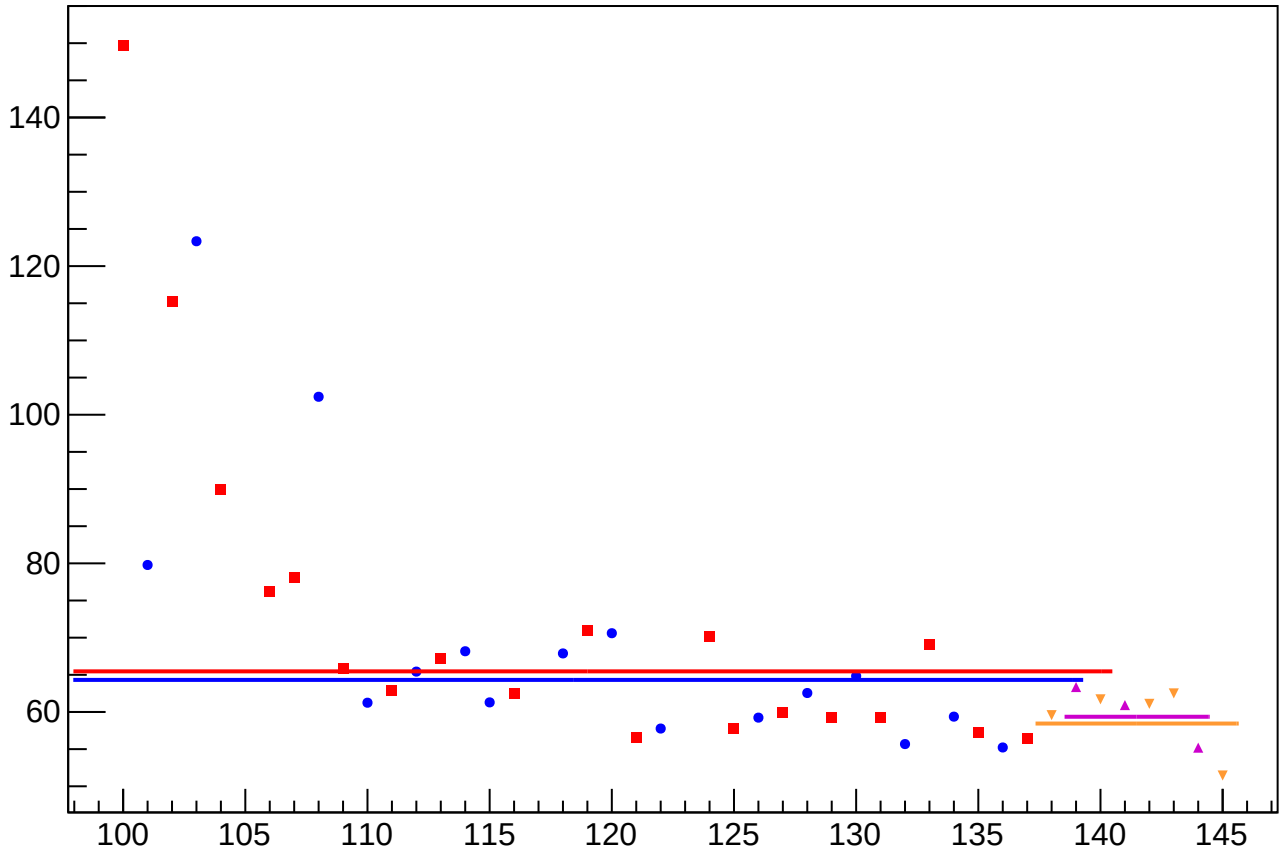
Left: -73.590+/-23.520 $\chi^2$/NDF: 9.6/7

Right: 14.793+/-17.337 $\chi^2$/NDF: 41.5/34

In: -8.928+/-20.368 $\chi^2$/NDF:32.7/18

Out: -22.863+/-19.159 $\chi^2$/NDF:27.4/23

All: -16.322+/-13.955 $\chi^2$/NDF: 60.3/42




Right In: 64.316+/-0.017 $\chi^2$/NDF: 532073.4/15

Left Out: 58.444+/-0.022 $\chi^2$/NDF:43343.5/4

Right Out: 65.466+/-0.017 $\chi^2$/NDF: 482367.1/18

Left In: 59.357+/-0.026 $\chi^2$/NDF:18022.1/2

Left: 58.818+/-0.017 $\chi^2$/NDF: 62095.7/7

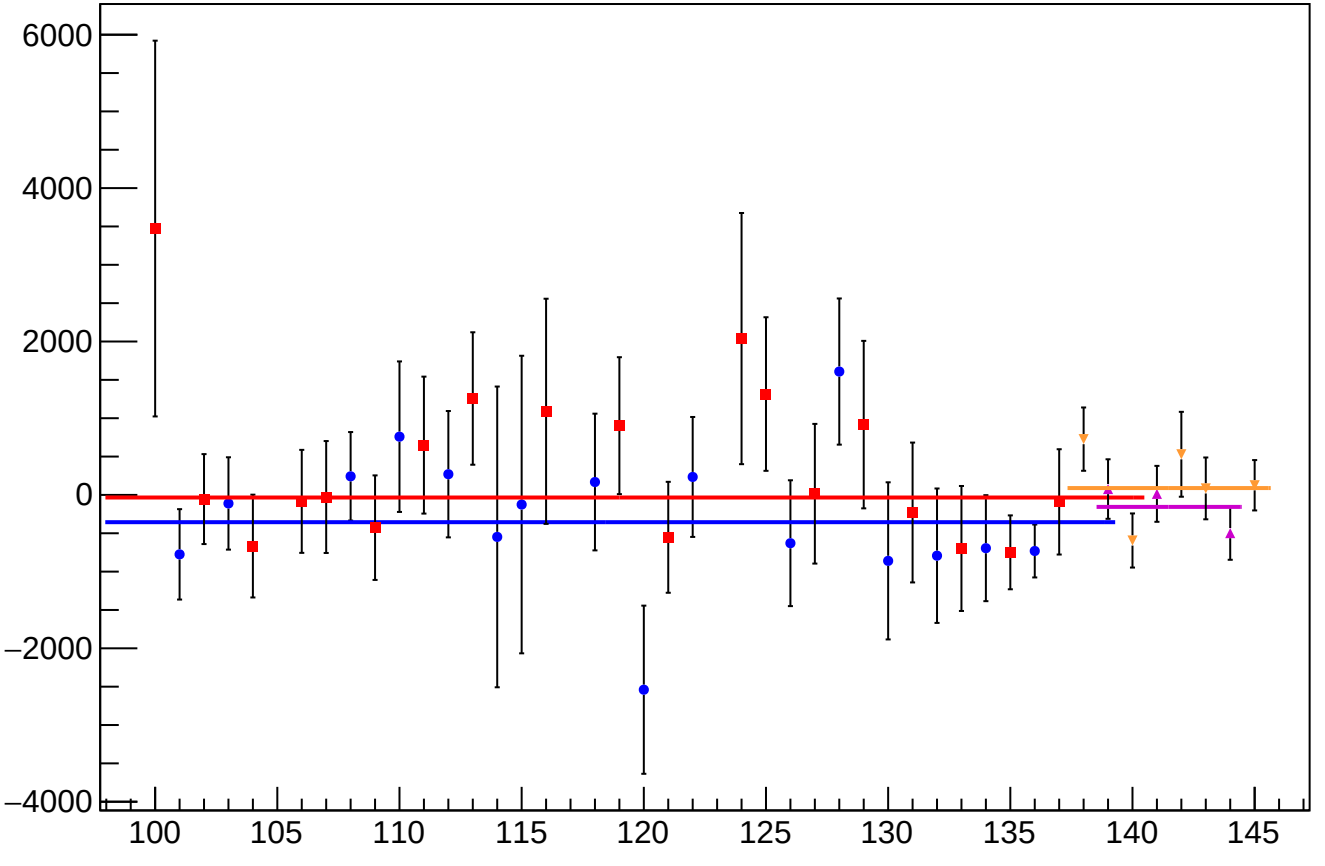
Right: 64.889+/-0.012 $\chi^2$/NDF: 1016639.7/34

In: 62.793+/-0.014 $\chi^2$/NDF:575326.3/18

Out: 62.715+/-0.014 $\chi^2$/NDF:589733.2/23

All: 62.752+/-0.010 $\chi^2$/NDF: 1165074.9/42

asym_sam_13_57_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -355.529+/-180.334 $\chi^2$/NDF: 14.8/15

Left Out: 89.356+/-175.112 $\chi^2$/NDF:6.8/4

Right Out: -33.787+/-181.560 $\chi^2$/NDF: 15.4/18

Left In: -156.213+/-211.152 $\chi^2$/NDF:1.5/2

Left: -10.714+/-134.791 $\chi^2$/NDF: 9.1/7

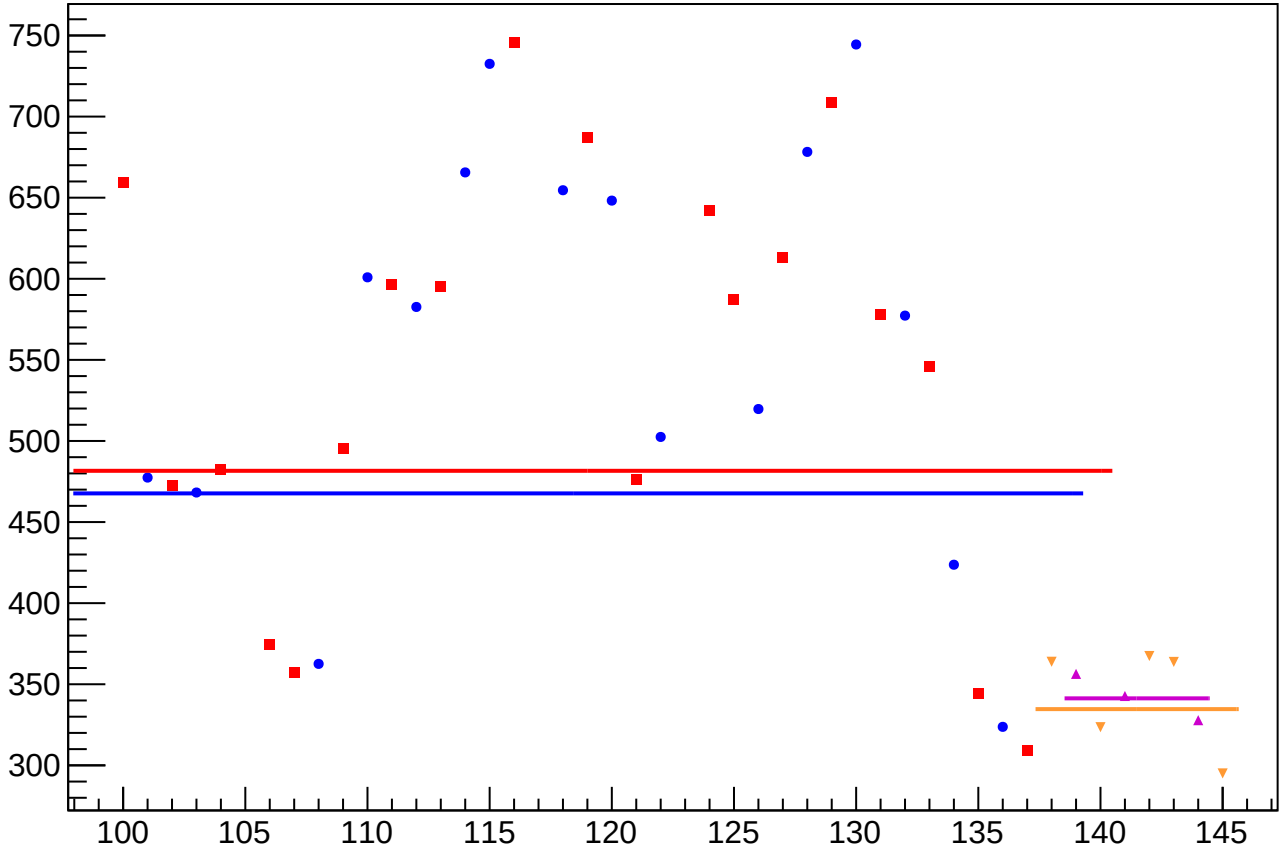
Right: -195.748+/-127.947 $\chi^2$/NDF: 31.8/34

In: -271.464+/-137.129 $\chi^2$/NDF:16.9/18

Out: 30.010+/-126.041 $\chi^2$/NDF:22.4/23

All: -108.047+/-92.797 $\chi^2$/NDF: 41.9/42

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: 334.669+/-0.124 $\chi^2$/NDF:58610.5/4

Right Out: 481.599+/-0.128 $\chi^2$/NDF: 854281.0/18

Left In: 341.305+/-0.149 $\chi^2$/NDF:6052.8/2

Left: 337.373+/-0.095 $\chi^2$/NDF: 65833.5/7

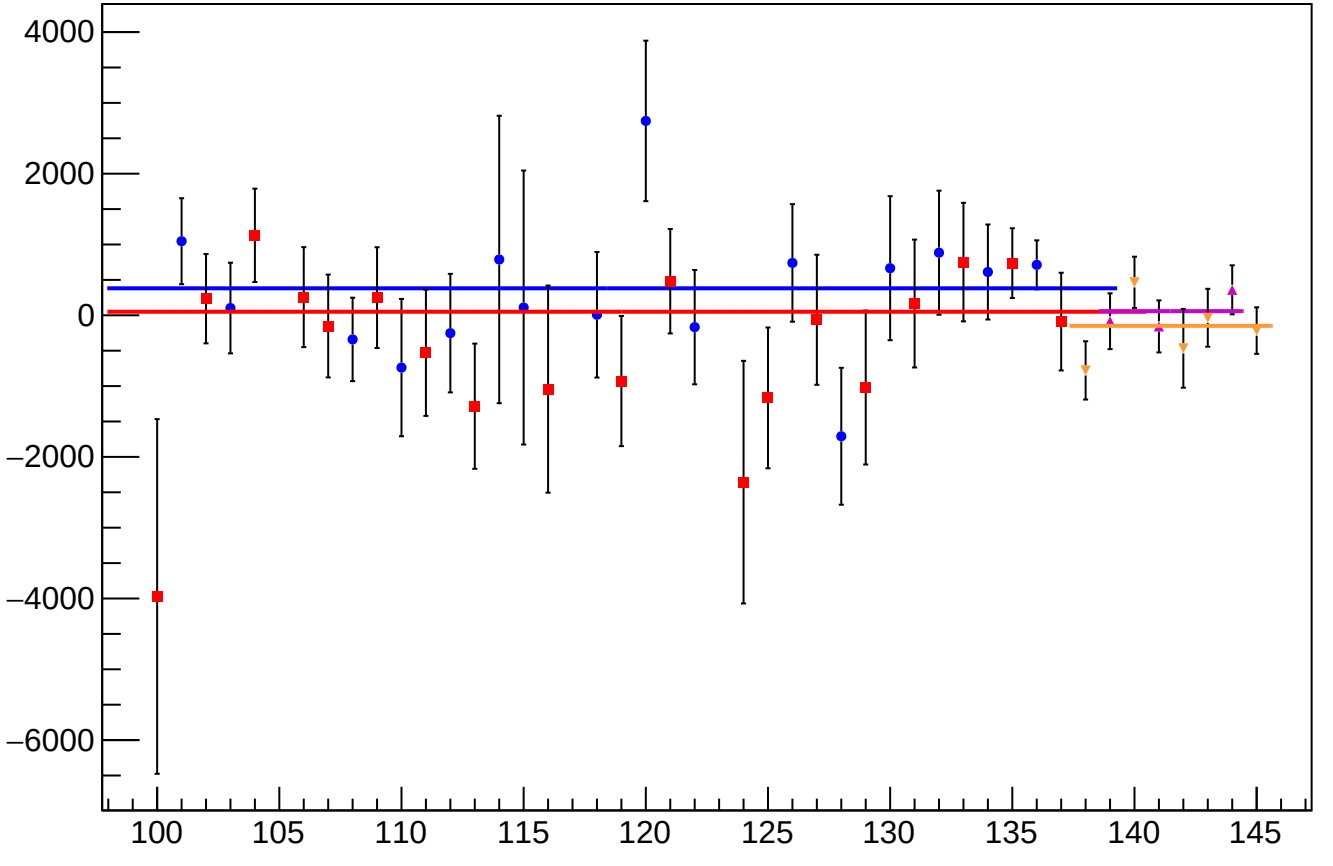
Right: 474.589+/-0.090 $\chi^2$/NDF: 1846148.4/34

In: 414.376+/-0.097 $\chi^2$/NDF:1406214.8/18

Out: 405.478+/-0.089 $\chi^2$/NDF:1591465.7/23

All: 409.553+/-0.066 $\chi^2$/NDF: 3002244.3/42

# asym_sam_13_57_dd_mean vs Slug, Sign Corrected




Right In: 381.086+/-182.655 $\chi^2$/NDF: 16.1/15

Left Out: -148.929+/-176.801 $\chi^2$/NDF:5.7/4

Right Out: 50.392+/-185.262 $\chi^2$/NDF: 17.5/18

Left In: 58.674+/-212.288 $\chi^2$/NDF:1.2/2

Left: -63.906+/-135.855 $\chi^2$/NDF: 7.5/7

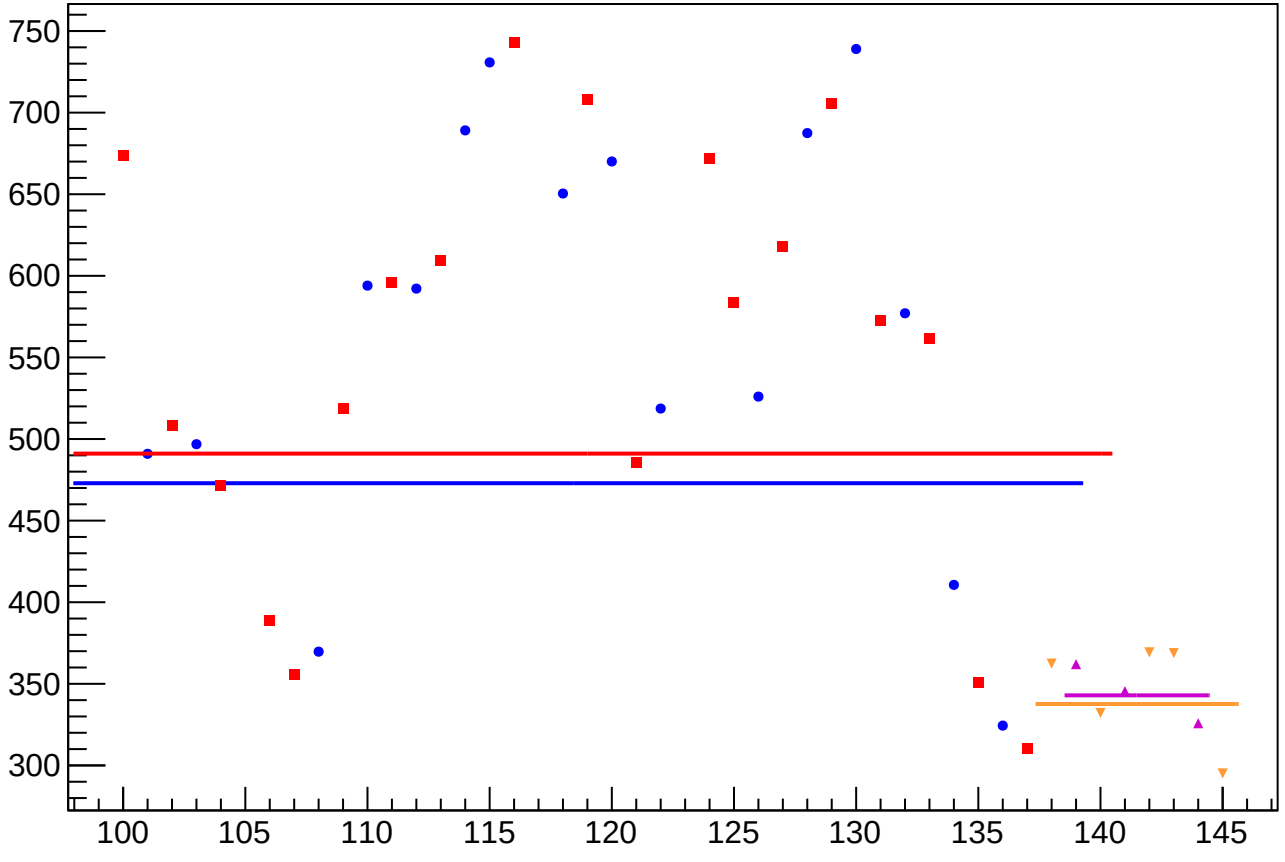
Right: 218.082+/-130.069 $\chi^2$/NDF: 35.2/34

In: 243.935+/-138.458 $\chi^2$/NDF:18.7/18

Out: -53.924+/-127.904 $\chi^2$/NDF:23.7/23

All: 83.221+/-93.952 $\chi^2$/NDF: 44.9/42

# asym_sam_13_57_dd_rms vs Slug, Sign Corrected




Right In: 472.924+/-0.129 $\chi^2$/NDF: 1000274.3/15

Left Out: 337.622+/-0.125 $\chi^2$/NDF:59301.5/4

Right Out: 491.063+/-0.131 $\chi^2$/NDF: 847493.6/18

Left In: 342.931+/-0.150 $\chi^2$/NDF:9683.4/2

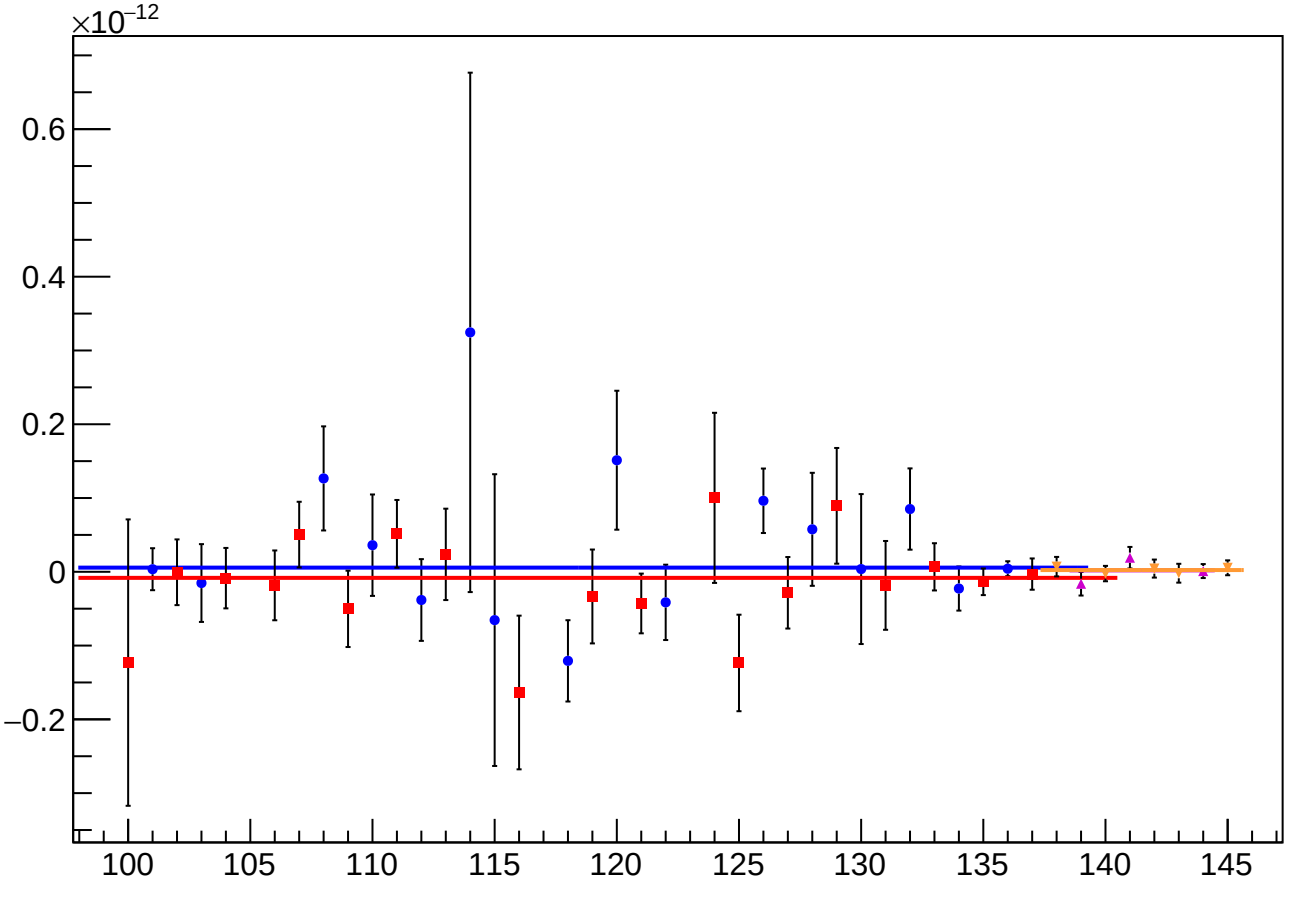
Left: 339.797+/-0.096 $\chi^2$/NDF: 69723.3/7

Right: 481.865+/-0.092 $\chi^2$/NDF: 1857489.5/34

In: 417.626+/-0.098 $\chi^2$/NDF:1440876.3/18

Out: 410.759+/-0.090 $\chi^2$/NDF:1624812.7/23

All: 413.921+/-0.066 $\chi^2$/NDF: 3068344.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:0.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.7/2

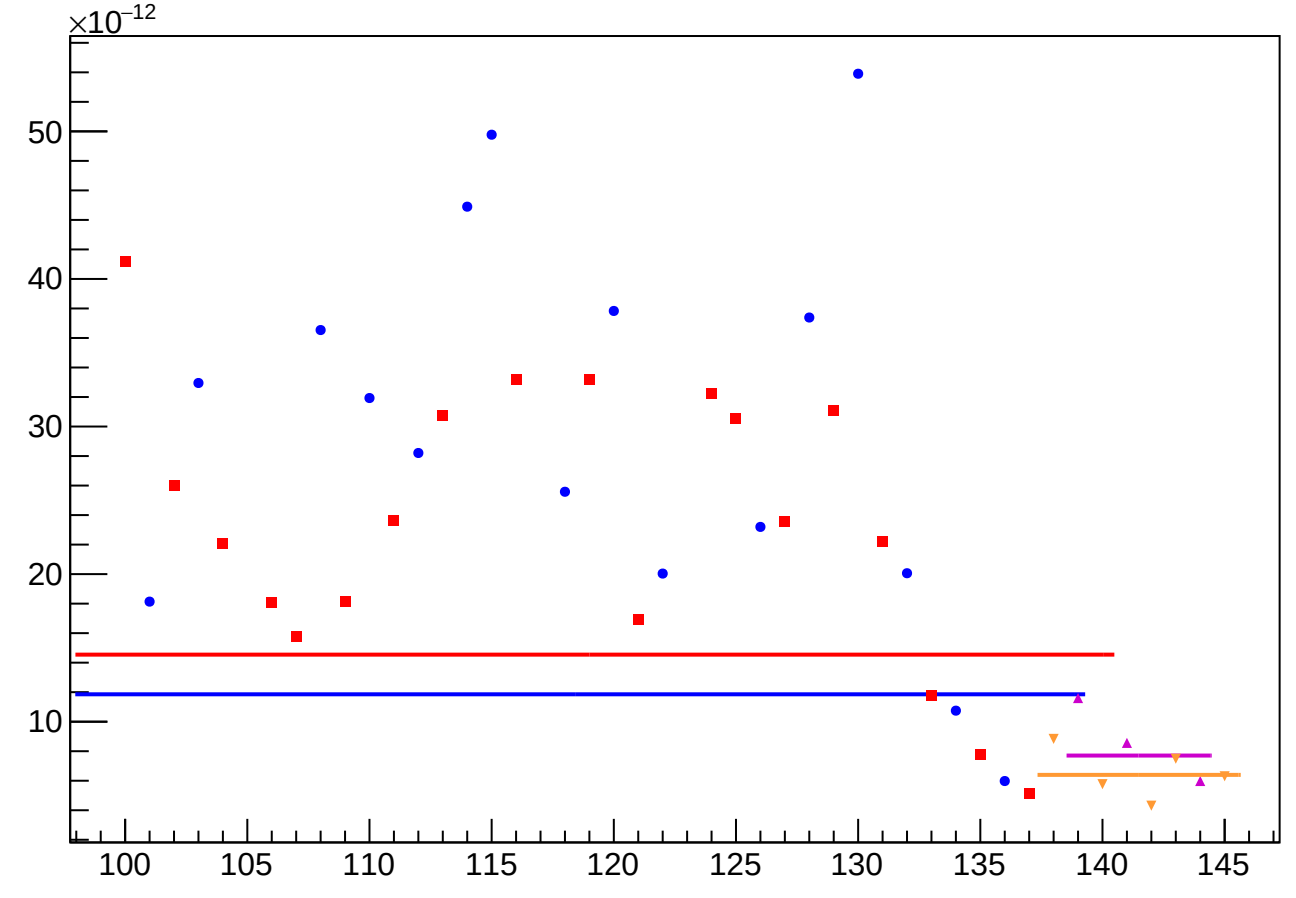
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:23.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:15.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 39.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2848478.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:148596.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1769864.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:191670.7/2

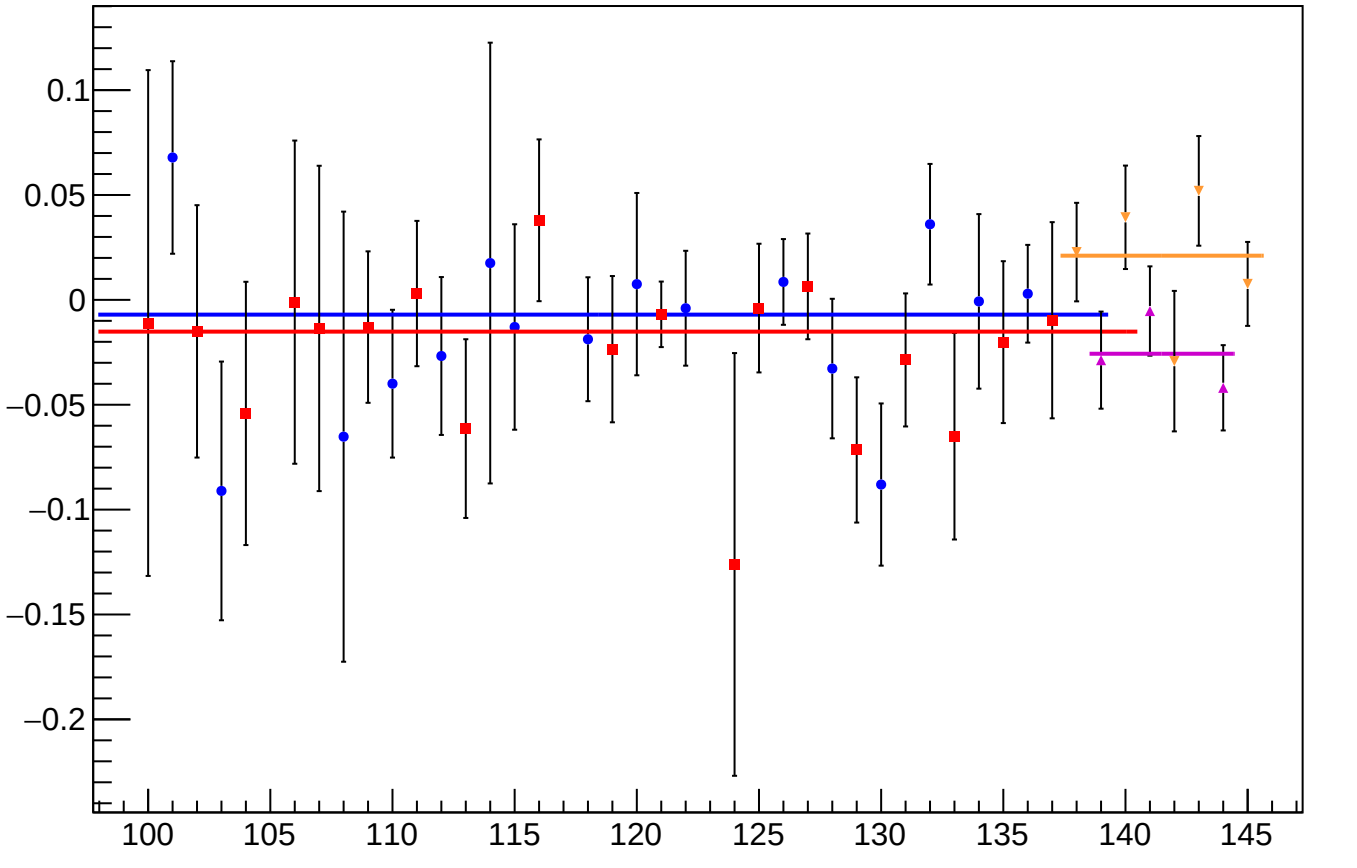
Left: 0.000+/-0.000 $\chi^2$/NDF: 384662.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4713356.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:3336434.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3093823.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6488630.6/42




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.021+/-0.011 $\chi^2$/NDF:4.7/4

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.026+/-0.012 $\chi^2$/NDF:1.6/2

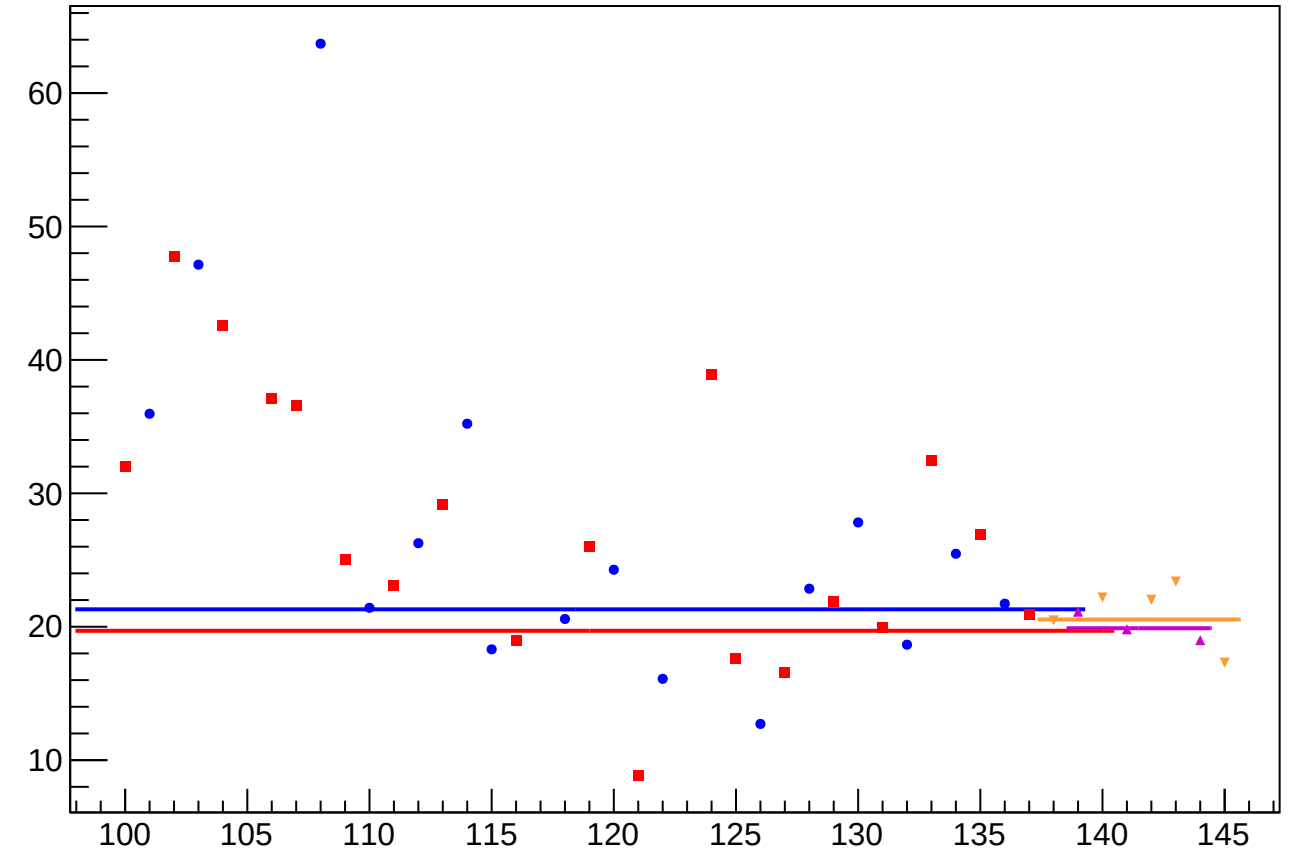
Left: 0.001+/-0.008 $\chi^2$/NDF: 14.2/7

Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.013+/-0.007 $\chi^2$/NDF:17.4/18

Out: -0.002+/-0.007 $\chi^2$/NDF:21.7/23

All: -0.007+/-0.005 $\chi^2$/NDF: 40.4/42




Right In: 21.305+/-0.006 $\chi^2$/NDF: 1479398.3/15

Left Out: 20.541+/-0.008 $\chi^2$/NDF:88686.6/4

Right Out: 19.697+/-0.006 $\chi^2$/NDF: 2438979.3/18

Left In: 19.888+/-0.009 $\chi^2$/NDF:9616.5/2

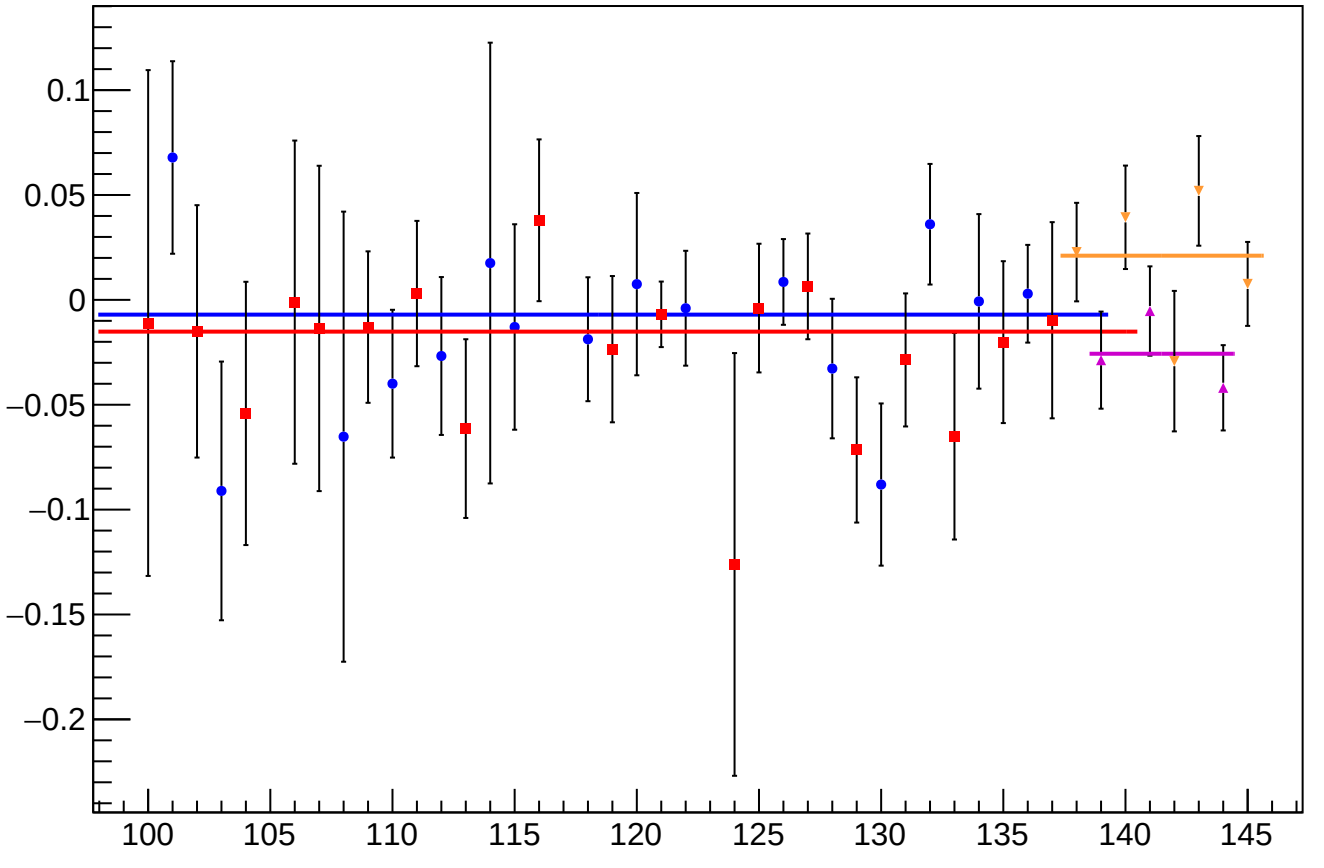
Left: 20.255+/-0.006 $\chi^2$/NDF: 101415.1/7

Right: 20.463+/-0.004 $\chi^2$/NDF: 3954812.2/34

In: 20.844+/-0.005 $\chi^2$/NDF:1506607.6/18

Out: 20.001+/-0.005 $\chi^2$/NDF:2535250.9/23

All: 20.391+/-0.003 $\chi^2$/NDF: 4057070.8/42




Right In: -0.007+/-0.009 $\chi^2$/NDF: 14.3/15

Left Out: 0.021+/-0.011 $\chi^2$/NDF:4.7/4

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.026+/-0.012 $\chi^2$/NDF:1.6/2

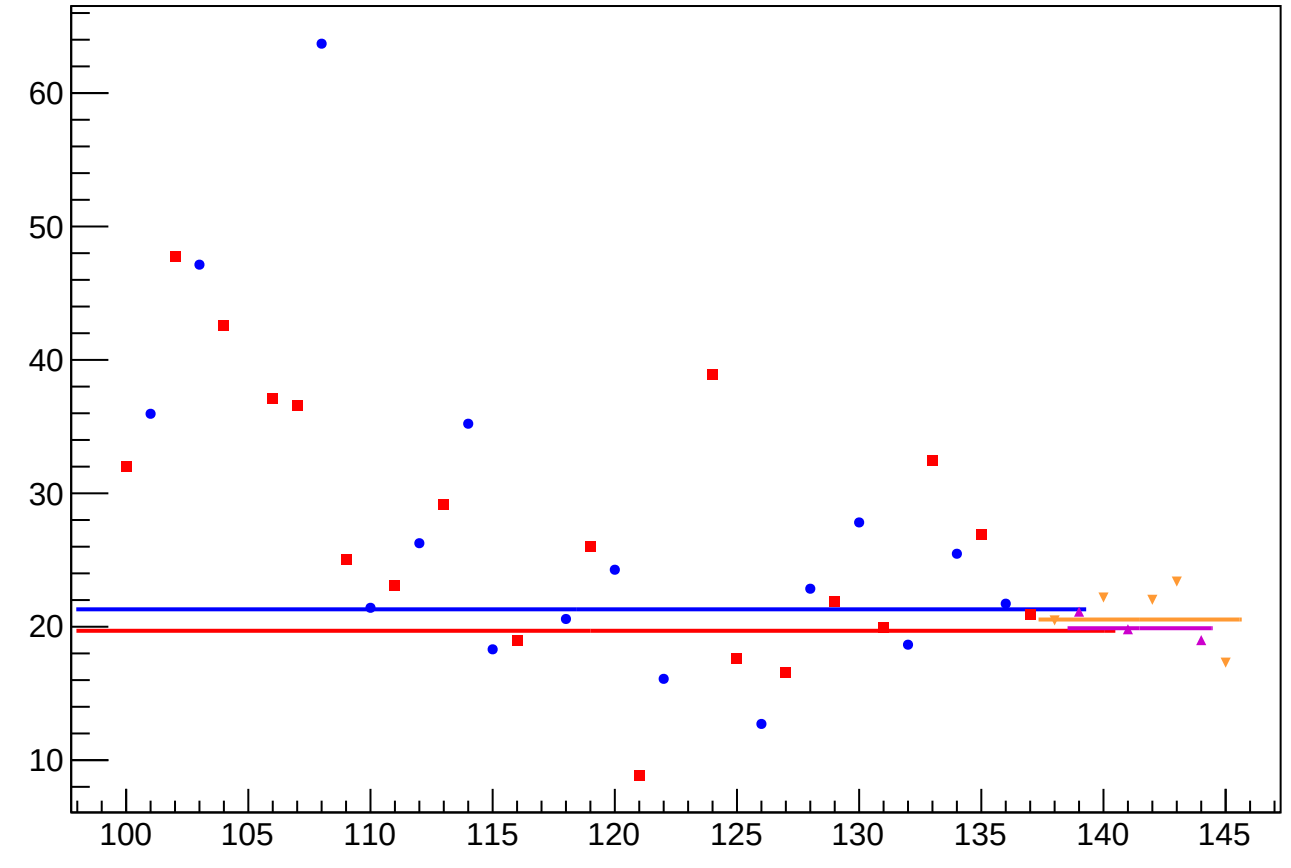
Left: 0.001+/-0.008 $\chi^2$/NDF: 14.2/7

Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.013+/-0.007 $\chi^2$/NDF:17.4/18

Out: -0.002+/-0.007 $\chi^2$/NDF:21.7/23

All: -0.007+/-0.005 $\chi^2$/NDF: 40.4/42




Right In: 21.305+/-0.006 $\chi^2$/NDF: 1479398.3/15

Left Out: 20.541+/-0.008 $\chi^2$/NDF:88686.6/4

Right Out: 19.697+/-0.006 $\chi^2$/NDF: 2438979.3/18

Left In: 19.888+/-0.009 $\chi^2$/NDF:9616.5/2

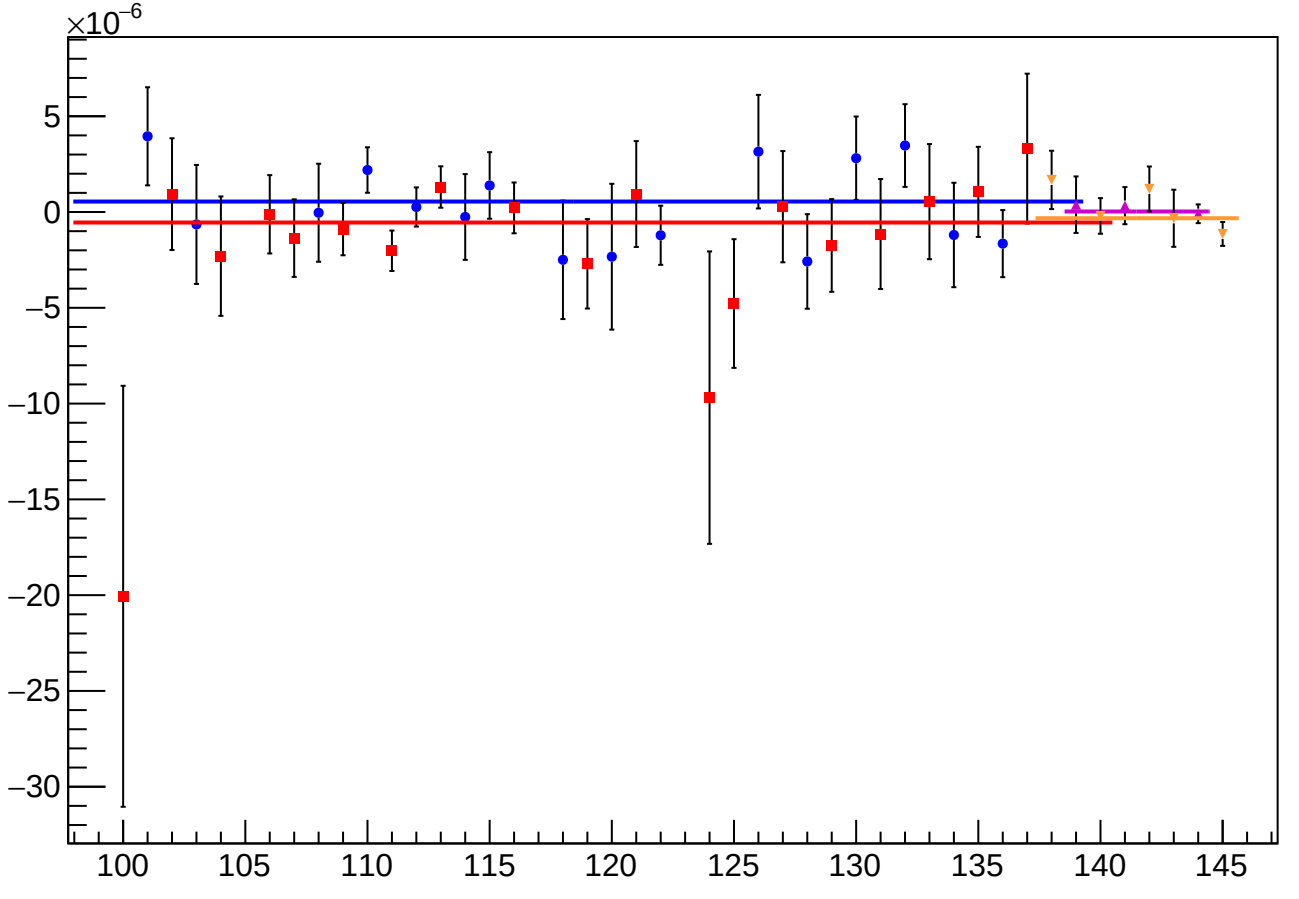
Left: 20.255+/-0.006 $\chi^2$/NDF: 101415.1/7

Right: 20.463+/-0.004 $\chi^2$/NDF: 3954812.2/34

In: 20.844+/-0.005 $\chi^2$/NDF:1506607.6/18

Out: 20.001+/-0.005 $\chi^2$/NDF:2535250.9/23

All: 20.391+/-0.003 $\chi^2$/NDF: 4057070.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.2/2

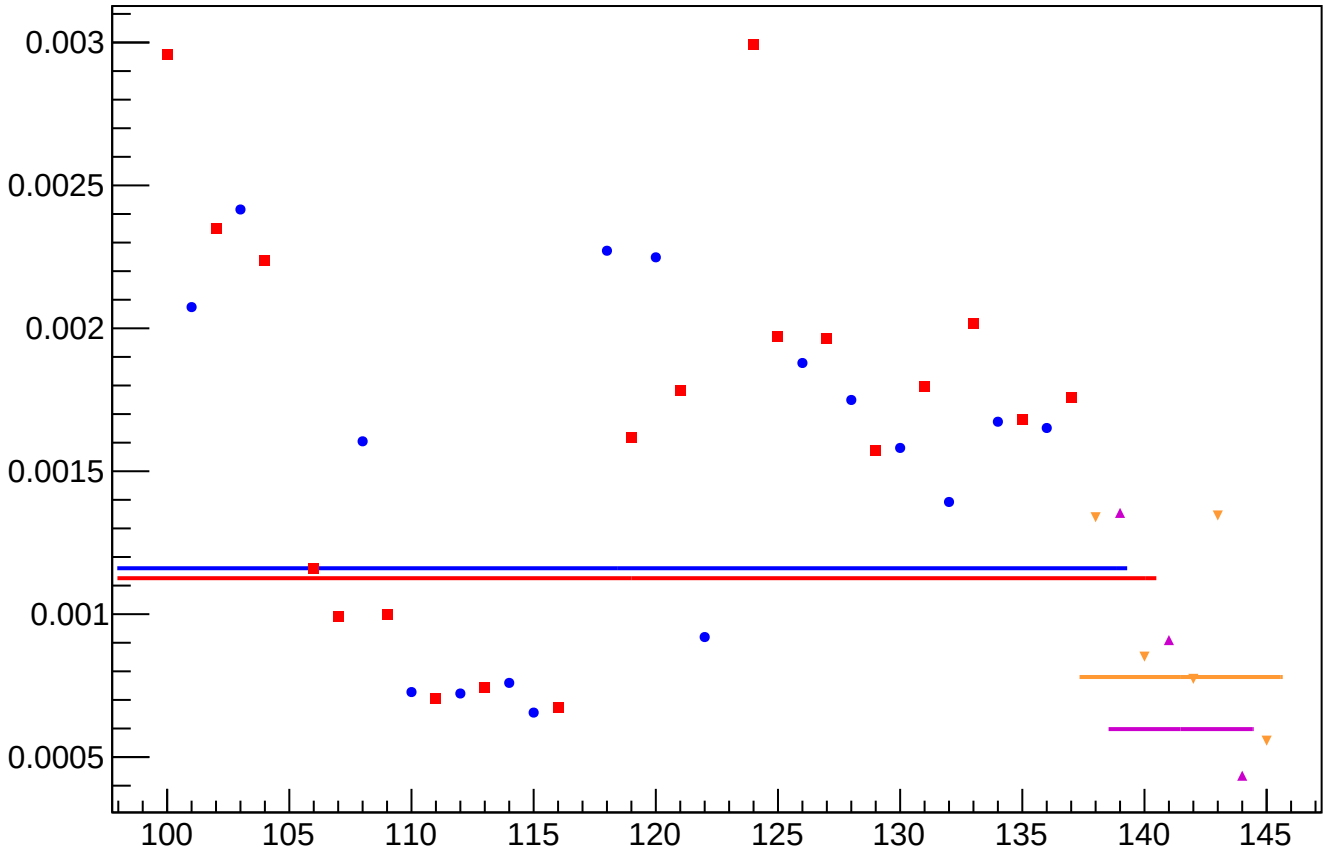
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 38.3/42




Right In: 0.001+/-0.000 $\chi^2$/NDF: 2534643.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:823960.9/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2623987.9/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:955330.9/2

Left: 0.001+/-0.000 $\chi^2$/NDF: 1962312.1/7

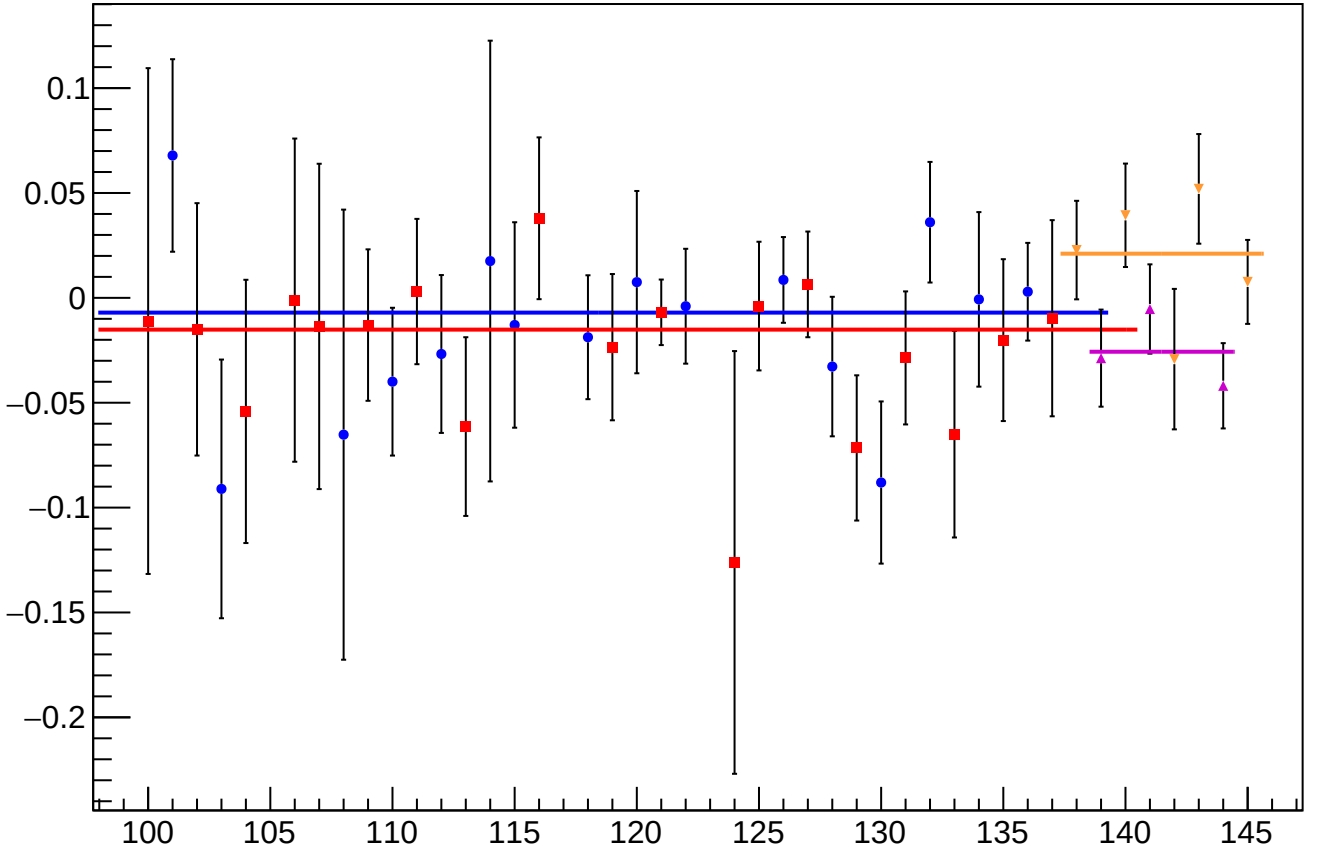
Right: 0.001+/-0.000 $\chi^2$/NDF: 5164155.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:5054885.2/18

Out: 0.001+/-0.000 $\chi^2$/NDF:4049072.2/23

All: 0.001+/-0.000 $\chi^2$/NDF: 9206833.2/42

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: 0.021+/-0.011 $\chi^2$/NDF:4.7/4

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.026+/-0.012 $\chi^2$/NDF:1.6/2

Left: 0.001+/-0.008 $\chi^2$/NDF: 14.2/7

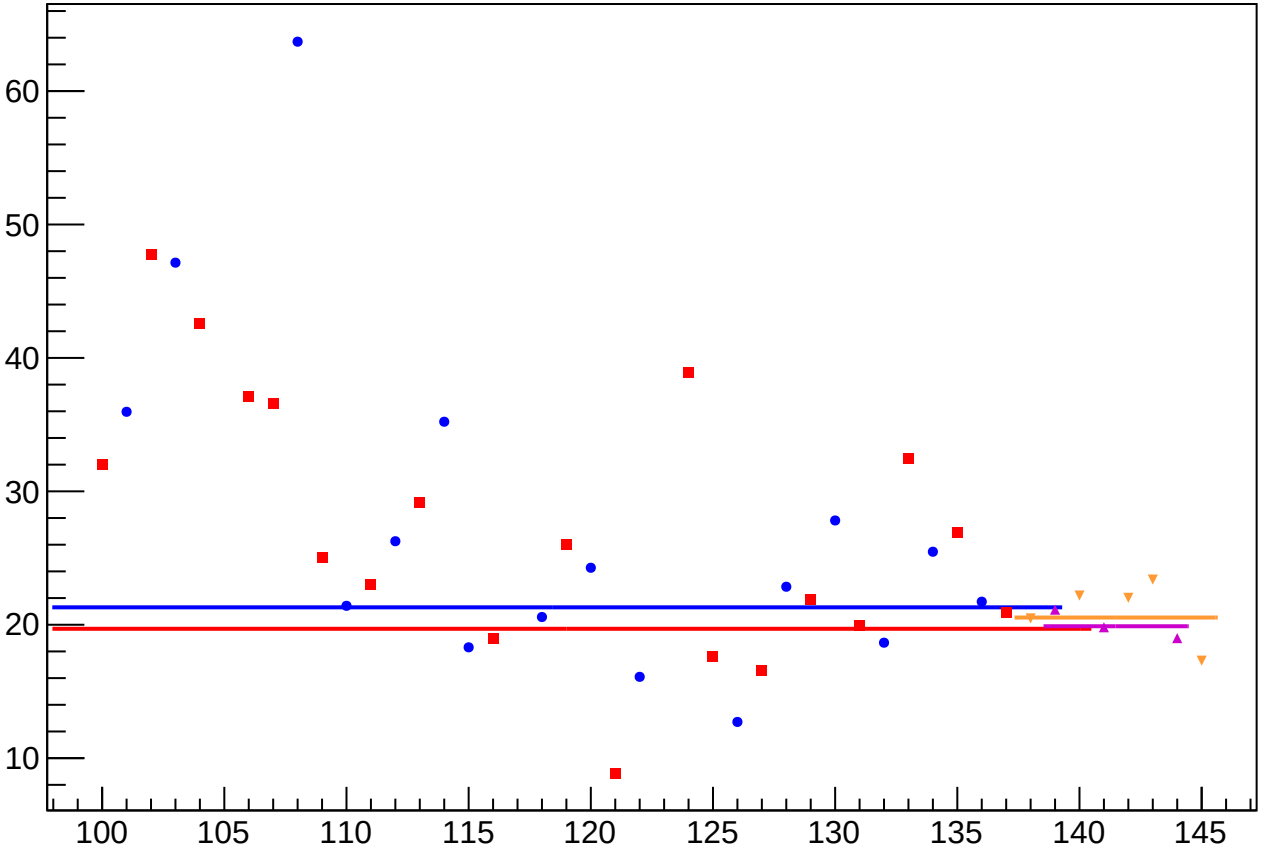
Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.013+/-0.007 $\chi^2$/NDF:17.4/18

Out: -0.002+/-0.007 $\chi^2$/NDF:21.7/23

All: -0.007+/-0.005 $\chi^2$/NDF: 40.4/42

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: 20.541+/-0.008 $\chi^2$/NDF:88699.8/4

Right Out: 19.698+/-0.006 $\chi^2$/NDF: 2438612.4/18

Left In: 19.888+/-0.009 $\chi^2$/NDF:9619.4/2

Left: 20.255+/-0.006 $\chi^2$/NDF: 101430.2/7

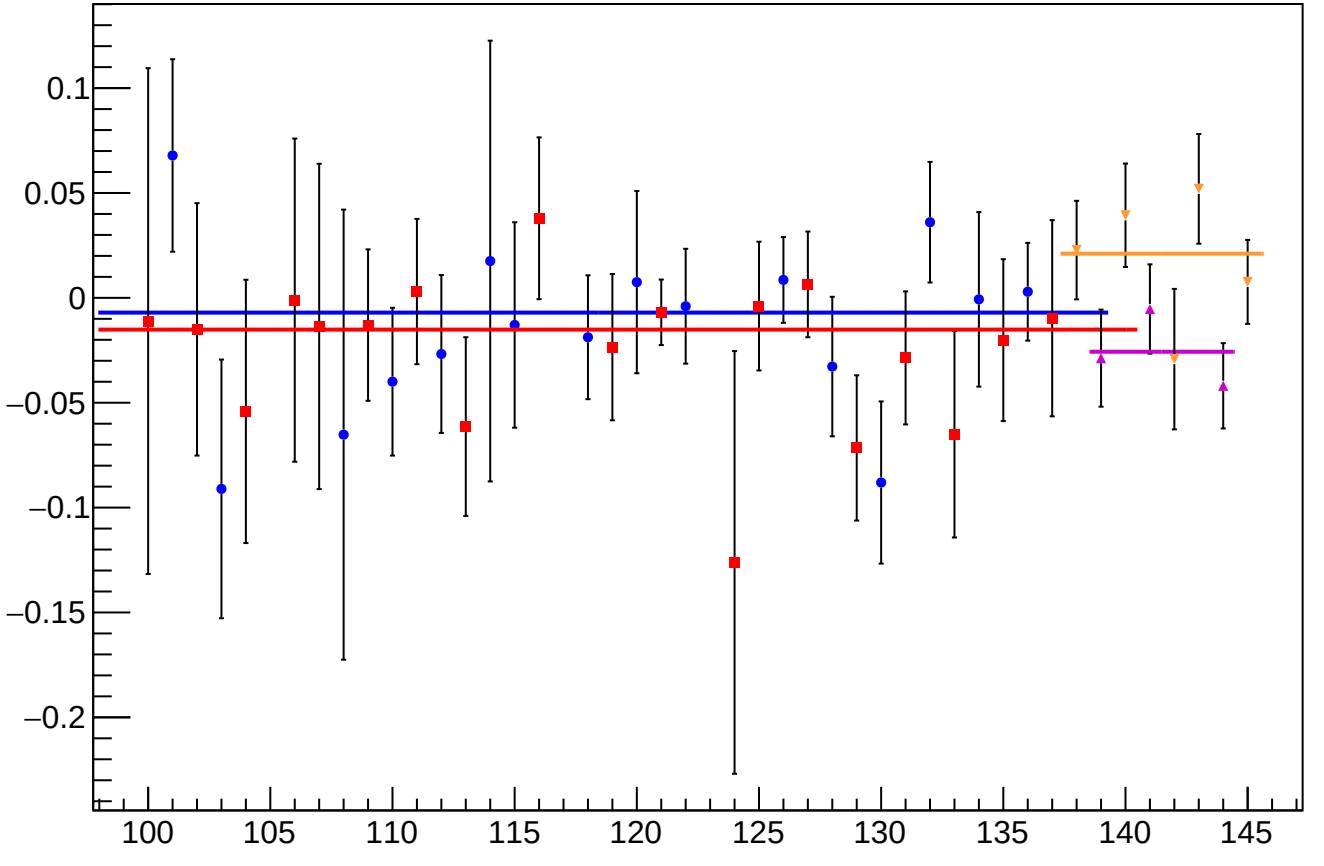
Right: 20.464+/-0.004 $\chi^2$/NDF: 3954261.4/34

In: 20.844+/-0.005 $\chi^2$/NDF:1506446.4/18

Out: 20.001+/-0.005 $\chi^2$/NDF:2534886.6/23

All: 20.392+/-0.003 $\chi^2$/NDF: 4056538.1/42

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: 0.021+/-0.011 $\chi^2$/NDF:4.7/4

Right Out: -0.015+/-0.008 $\chi^2$/NDF: 10.1/18

Left In: -0.026+/-0.012 $\chi^2$/NDF:1.6/2

Left: 0.001+/-0.008 $\chi^2$/NDF: 14.2/7

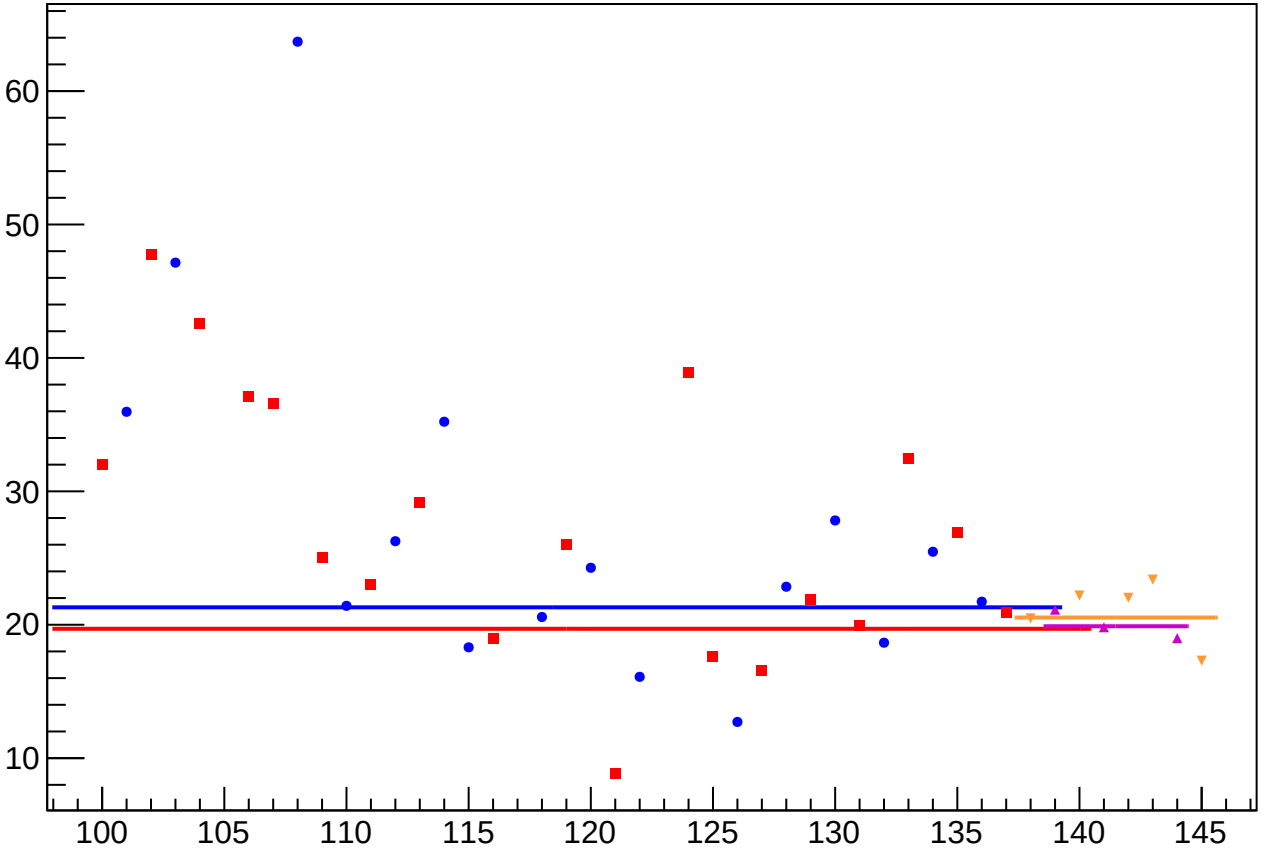
Right: -0.011+/-0.006 $\chi^2$/NDF: 24.9/34

In: -0.013+/-0.007 $\chi^2$/NDF:17.4/18

Out: -0.002+/-0.007 $\chi^2$/NDF:21.7/23

All: -0.007+/-0.005 $\chi^2$/NDF: 40.4/42

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: 20.541+/-0.008 $\chi^2$/NDF:88699.8/4

Right Out: 19.698+/-0.006 $\chi^2$/NDF: 2438612.4/18

Left In: 19.888+/-0.009 $\chi^2$/NDF:9619.4/2

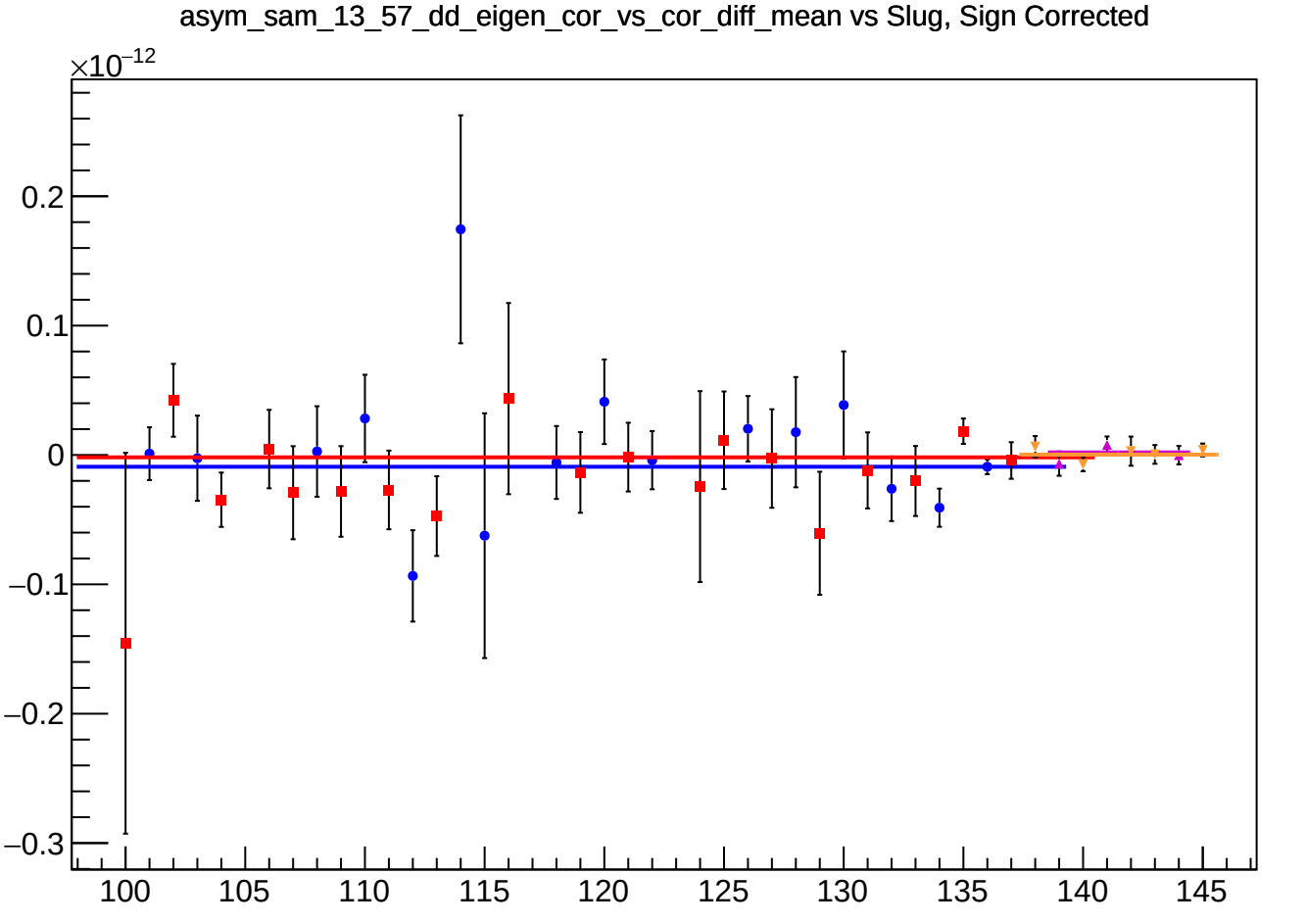
Left: 20.255+/-0.006 $\chi^2$/NDF: 101430.2/7

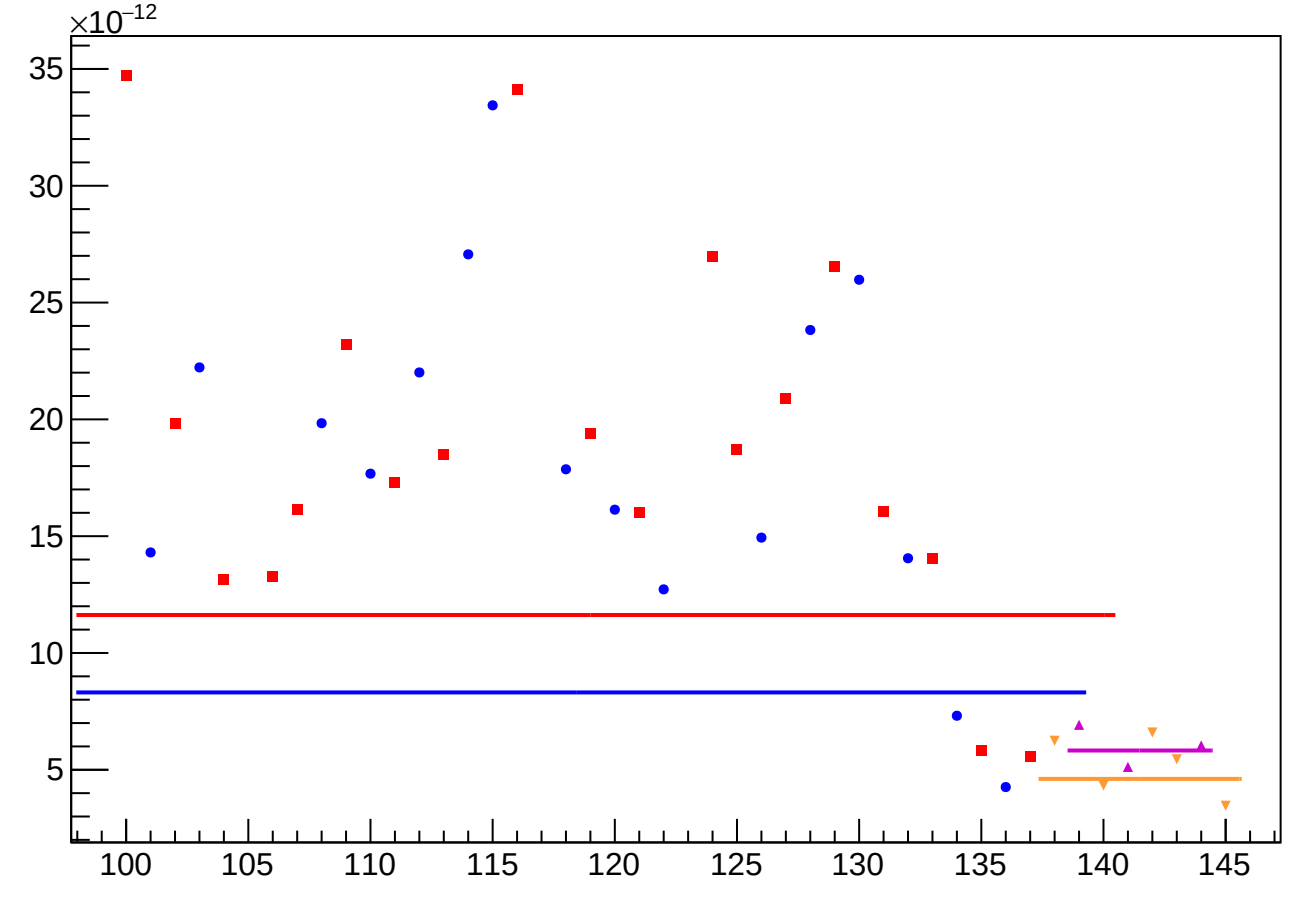
Right: 20.464+/-0.004 $\chi^2$/NDF: 3954261.4/34

In: 20.844+/-0.005 $\chi^2$/NDF:1506446.4/18

Out: 20.001+/-0.005 $\chi^2$/NDF:2534886.6/23

All: 20.392+/-0.003 $\chi^2$/NDF: 4056538.1/42


asym_sam_13_57_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
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 22.6/15
Left Out: 0.000+/-0.000 χ²/NDF:3.1/4
Right Out: -0.000+/-0.000 χ²/NDF: 17.0/18
Left In: 0.000+/-0.000 χ²/NDF:1.8/2
Left: 0.000+/-0.000 χ²/NDF: 4.9/7
Right: -0.000+/-0.000 χ²/NDF: 40.6/34
In: -0.000+/-0.000 χ²/NDF:27.5/18
Out: -0.000+/-0.000 χ²/NDF:20.2/23
All: -0.000+/-0.000 χ²/NDF: 48.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3731754.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:278433.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2610908.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:52637.5/2

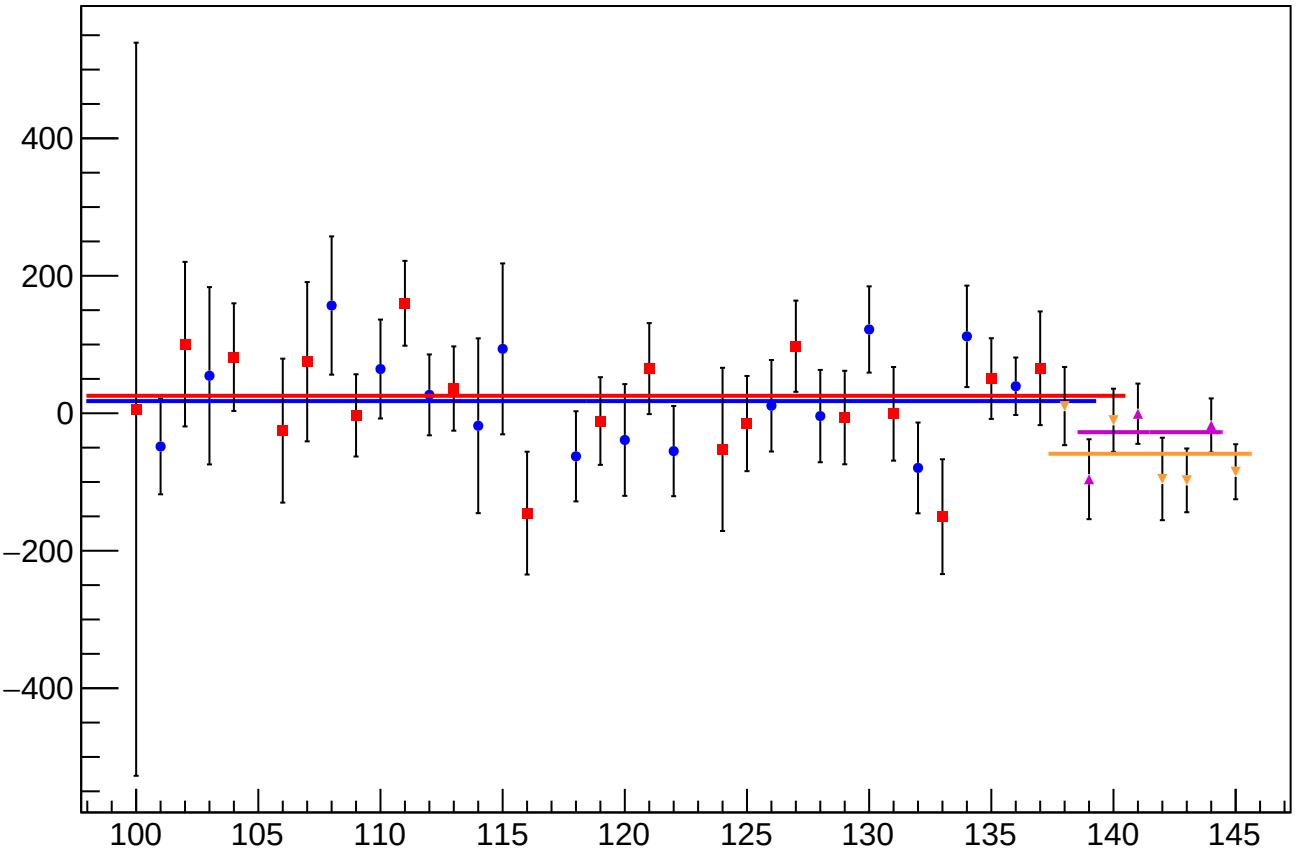
Left: 0.000+/-0.000 $\chi^2$/NDF: 441025.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 6760845.1/34

In: 0.000+/-0.000 $\chi^2$/NDF:4105974.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5293052.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9501564.4/42




Right In: 17.701+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -58.892+/-21.566 $\chi^2$/NDF:4.1/4

Right Out: 25.440+/-17.337 $\chi^2$/NDF: 17.8/18

Left In: -27.475+/-26.147 $\chi^2$/NDF:1.8/2

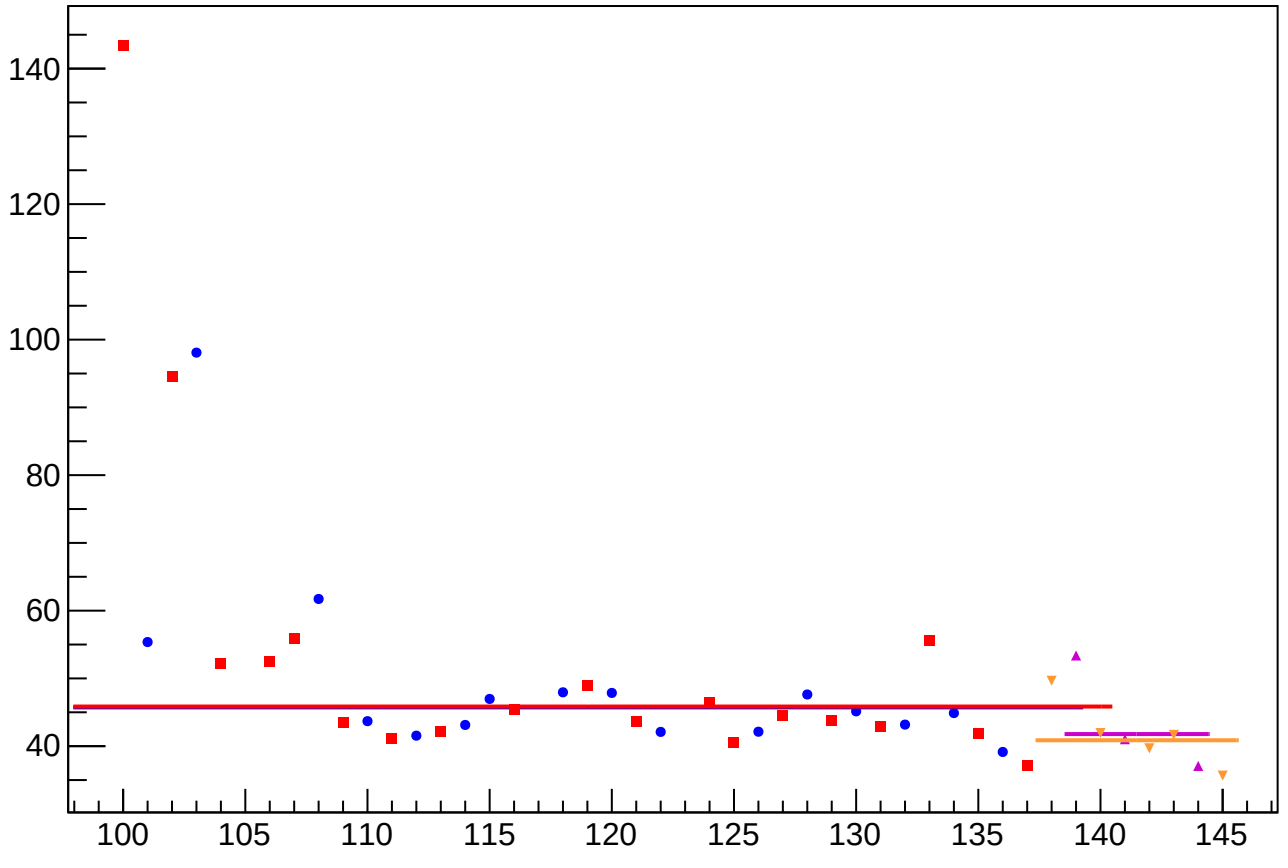
Left: -46.172+/-16.637 $\chi^2$/NDF: 6.8/7

Right: 21.600+/-12.306 $\chi^2$/NDF: 31.9/34

In: 3.758+/-14.526 $\chi^2$/NDF:17.8/18

Out: -7.664+/-13.512 $\chi^2$/NDF:31.2/23

All: -2.366+/-9.894 $\chi^2$/NDF: 49.4/42




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501460.7/15

Left Out: 40.872+/-0.015 $\chi^2$/NDF:84148.9/4

Right Out: 45.849+/-0.012 $\chi^2$/NDF: 540156.7/18

Left In: 41.787+/-0.018 $\chi^2$/NDF:108857.3/2

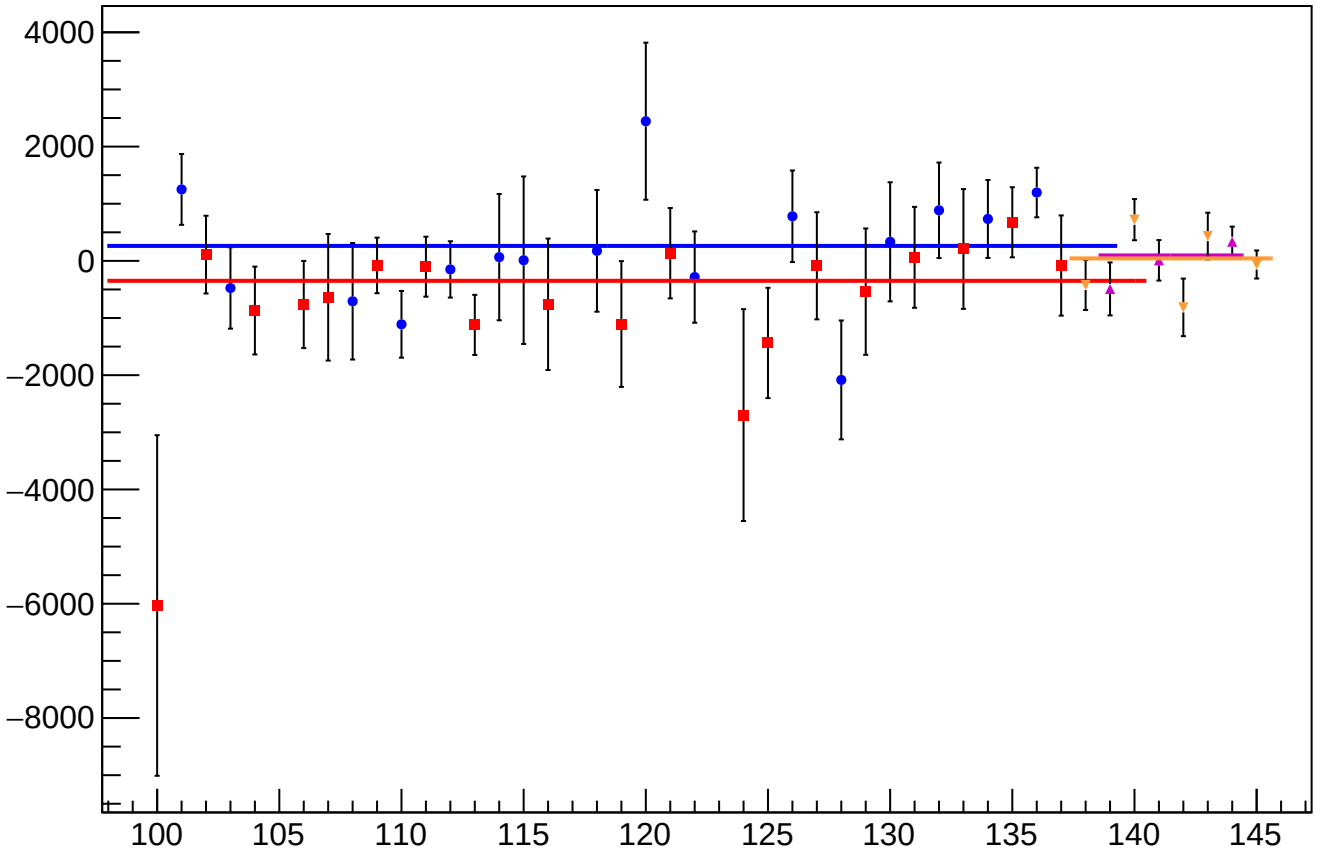
Left: 41.242+/-0.012 $\chi^2$/NDF: 194461.5/7

Right: 45.788+/-0.009 $\chi^2$/NDF: 1041667.0/34

In: 44.511+/-0.010 $\chi^2$/NDF:641716.3/18

Out: 43.896+/-0.010 $\chi^2$/NDF:689007.0/23

All: 44.181+/-0.007 $\chi^2$/NDF: 1332645.9/42




Right In: 261.943+/-185.211 $\chi^2$/NDF: 25.0/15

Left Out: 43.324+/-159.220 $\chi^2$/NDF:8.7/4

Right Out: -348.685+/-180.682 $\chi^2$/NDF: 14.9/18

Left In: 95.576+/-192.813 $\chi^2$/NDF:2.5/2

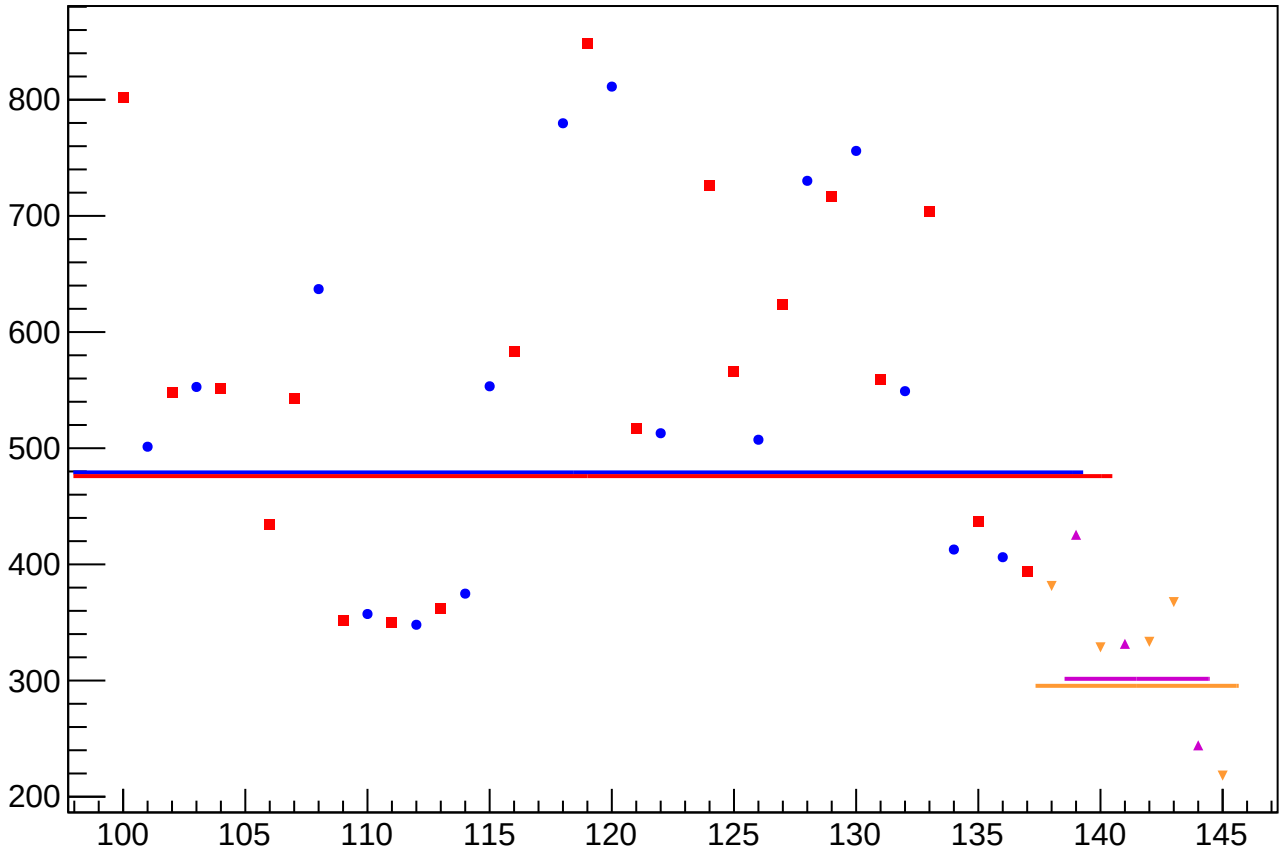
Left: 64.508+/-122.771 $\chi^2$/NDF: 11.2/7

Right: -50.928+/-129.333 $\chi^2$/NDF: 45.5/34

In: 182.104+/-133.571 $\chi^2$/NDF:27.8/18

Out: -128.027+/-119.456 $\chi^2$/NDF:26.2/23

All: 9.793+/-89.042 $\chi^2$/NDF: 57.1/42




Right In: 479.178+/-0.131 $\chi^2$/NDF: 952693.7/15

Left Out: 295.466+/-0.113 $\chi^2$/NDF:365495.7/4

Right Out: 475.992+/-0.128 $\chi^2$/NDF: 1006487.7/18

Left In: 301.493+/-0.136 $\chi^2$/NDF:251204.2/2

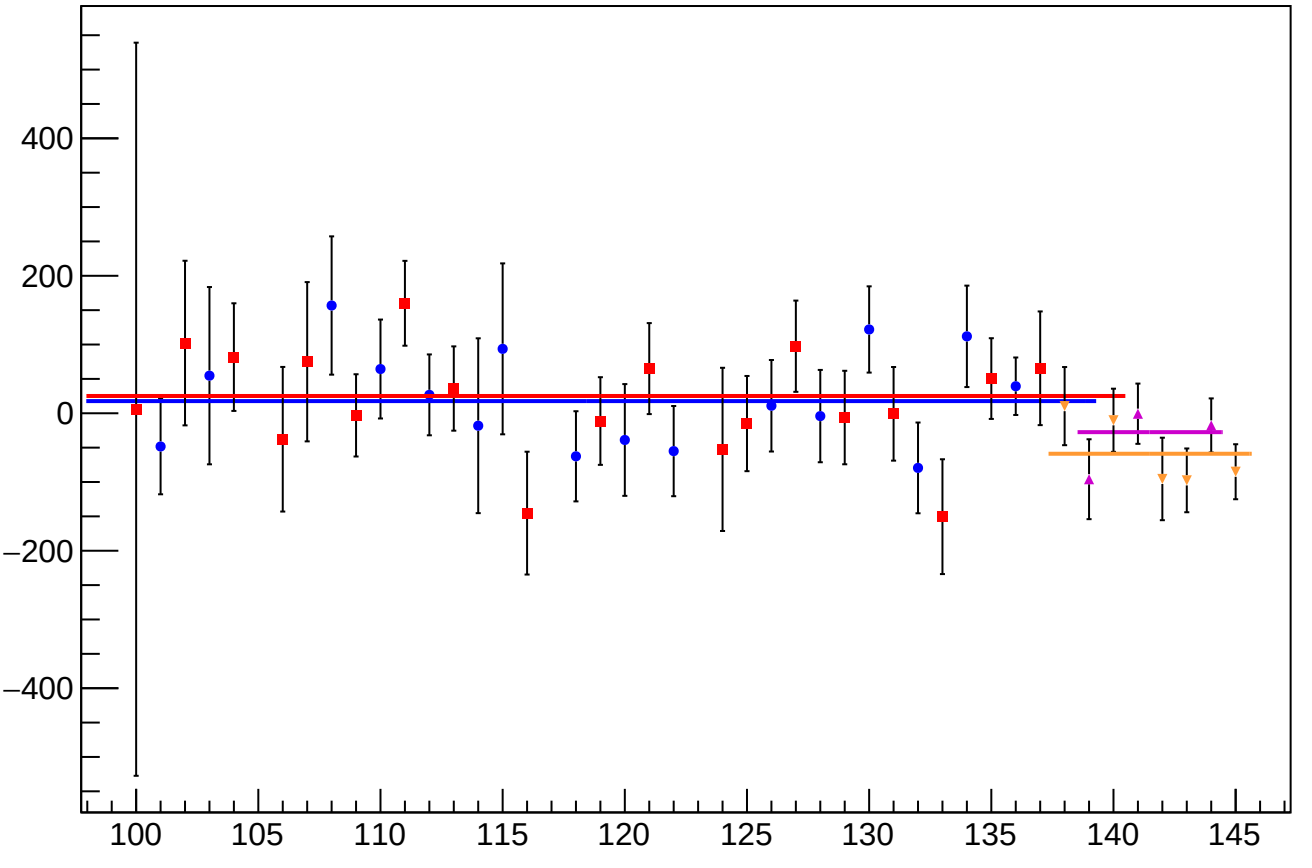
Left: 297.910+/-0.087 $\chi^2$/NDF: 617861.8/7

Right: 477.545+/-0.091 $\chi^2$/NDF: 1959484.6/34

In: 393.907+/-0.094 $\chi^2$/NDF:2087269.7/18

Out: 374.376+/-0.084 $\chi^2$/NDF:2495816.1/23

All: 383.055+/-0.063 $\chi^2$/NDF: 4606846.4/42




Right In: 17.706+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -58.890+/-21.566 $\chi^2$/NDF:4.1/4

Right Out: 25.145+/-17.339 $\chi^2$/NDF: 18.0/18

Left In: -27.471+/-26.147 $\chi^2$/NDF:1.8/2

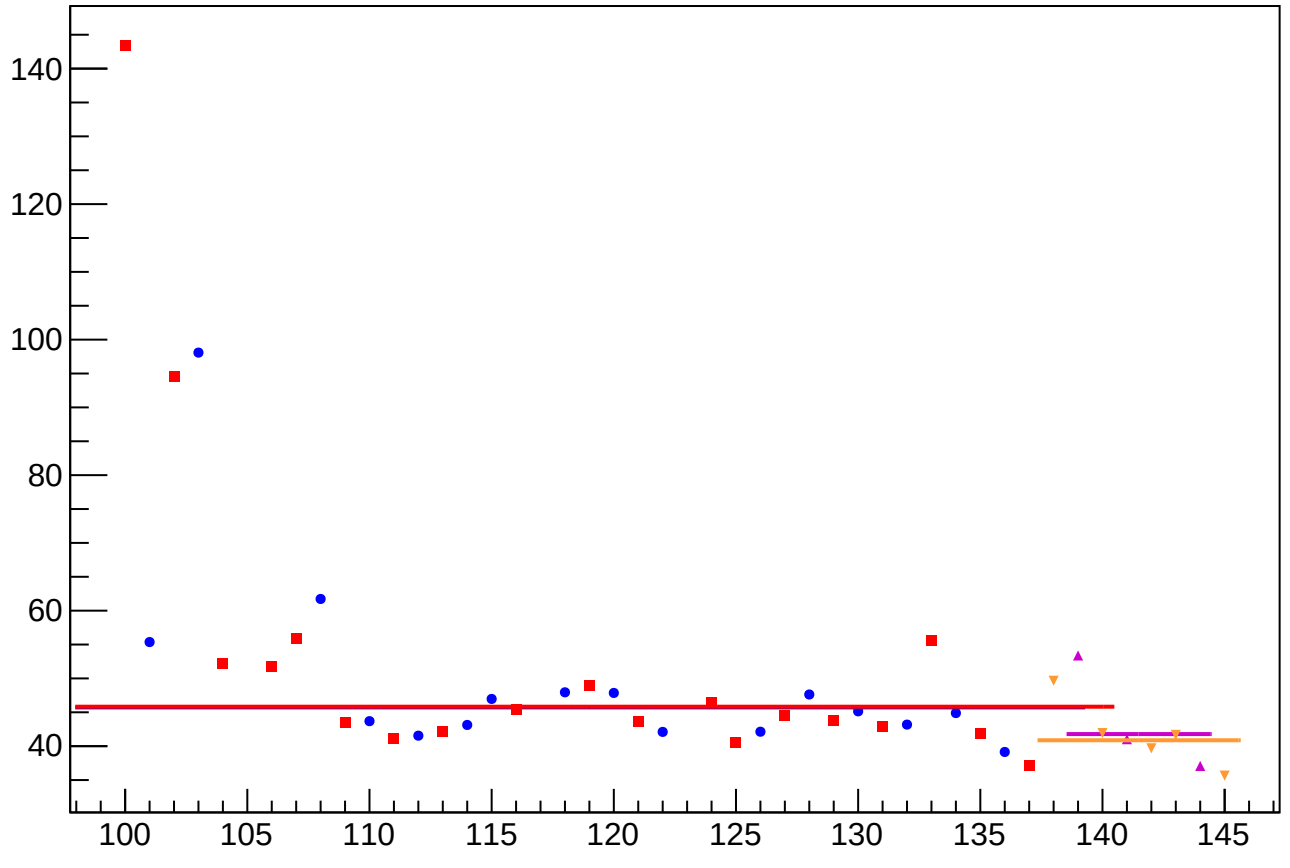
Left: -46.170+/-16.637 $\chi^2$/NDF: 6.8/7

Right: 21.453+/-12.307 $\chi^2$/NDF: 32.0/34

In: 3.763+/-14.526 $\chi^2$/NDF:17.8/18

Out: -7.848+/-13.513 $\chi^2$/NDF:31.3/23

All: -2.462+/-9.894 $\chi^2$/NDF: 49.5/42




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501463.8/15

Left Out: 40.872+/-0.015 $\chi^2$/NDF:84148.9/4

Right Out: 45.825+/-0.012 $\chi^2$/NDF: 538470.5/18

Left In: 41.787+/-0.018 $\chi^2$/NDF:108857.3/2

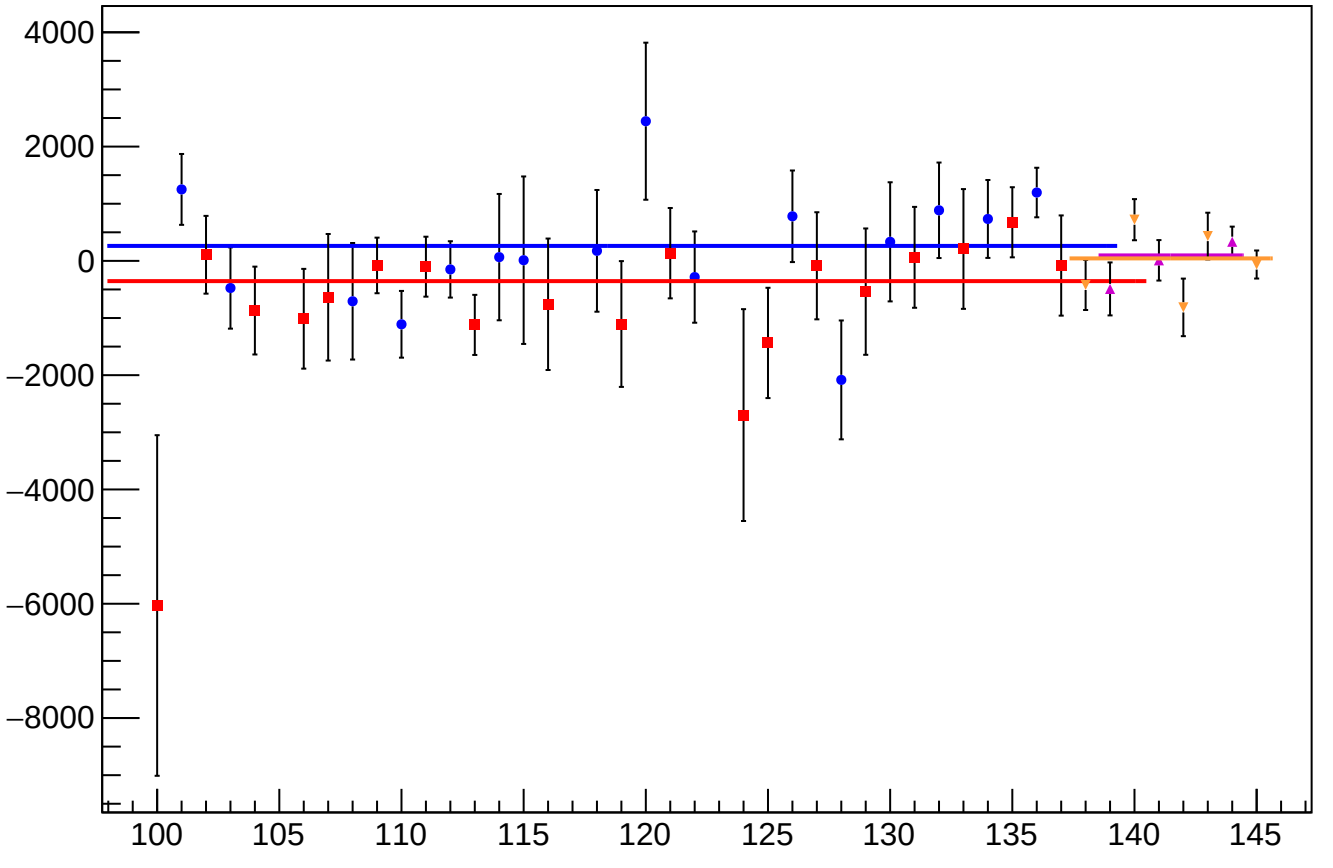
Left: 41.242+/-0.012 $\chi^2$/NDF: 194461.5/7

Right: 45.776+/-0.009 $\chi^2$/NDF: 1039966.5/34

In: 44.511+/-0.010 $\chi^2$/NDF:641719.3/18

Out: 43.881+/-0.010 $\chi^2$/NDF:686695.3/23

All: 44.173+/-0.007 $\chi^2$/NDF: 1330430.7/42




Right In: 261.947+/-185.212 $\chi^2$/NDF: 25.0/15

Left Out: 43.322+/-159.220 $\chi^2$/NDF:8.7/4

Right Out: -354.204+/-181.903 $\chi^2$/NDF: 15.2/18

Left In: 95.578+/-192.813 $\chi^2$/NDF:2.5/2

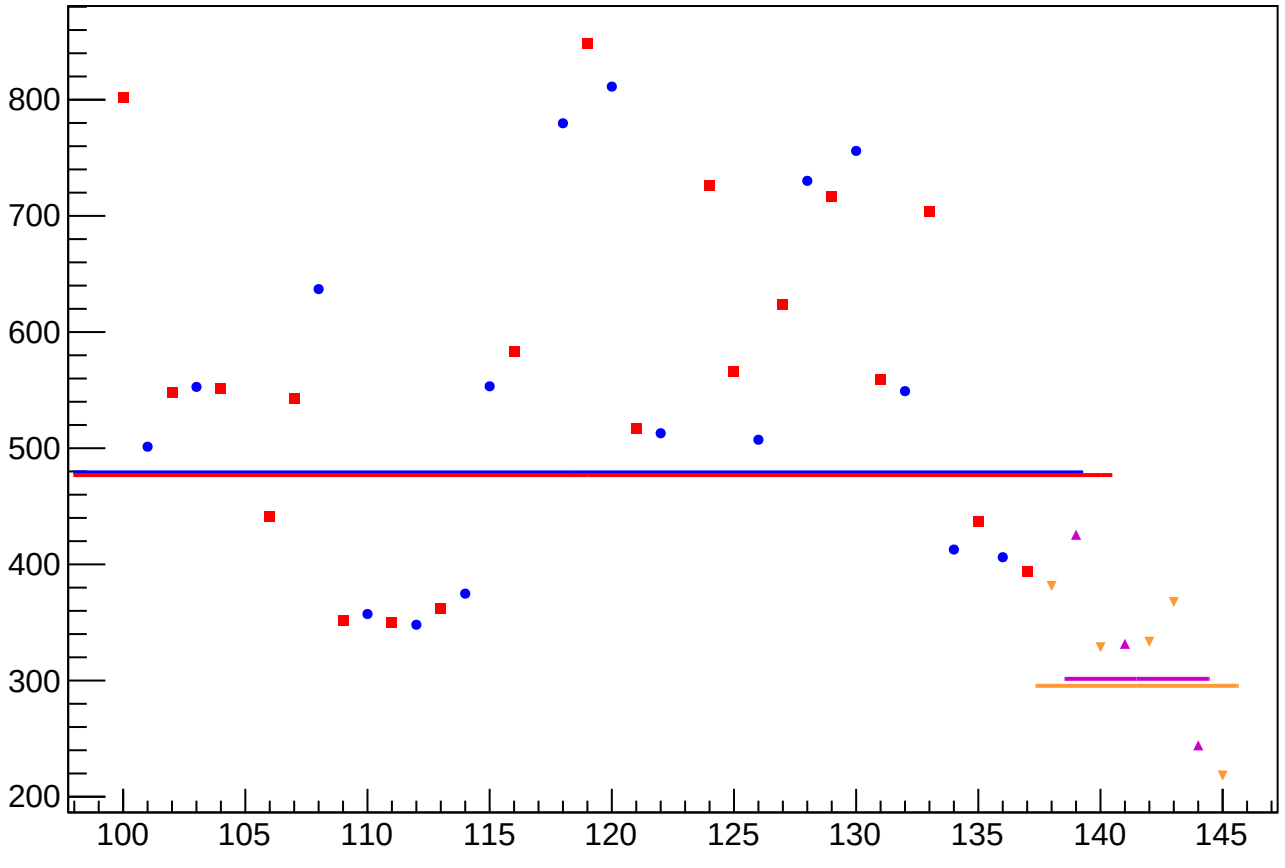
Left: 64.508+/-122.771 $\chi^2$/NDF: 11.2/7

Right: -51.682+/-129.779 $\chi^2$/NDF: 45.8/34

In: 182.107+/-133.571 $\chi^2$/NDF:27.8/18

Out: -129.125+/-119.807 $\chi^2$/NDF:26.6/23

All: 9.634+/-89.187 $\chi^2$/NDF: 57.4/42




Right In: 479.180+/-0.131 $\chi^2$/NDF: 952722.6/15

Left Out: 295.466+/-0.113 $\chi^2$/NDF:365495.9/4

Right Out: 476.893+/-0.129 $\chi^2$/NDF: 1003767.4/18

Left In: 301.494+/-0.136 $\chi^2$/NDF:251205.0/2

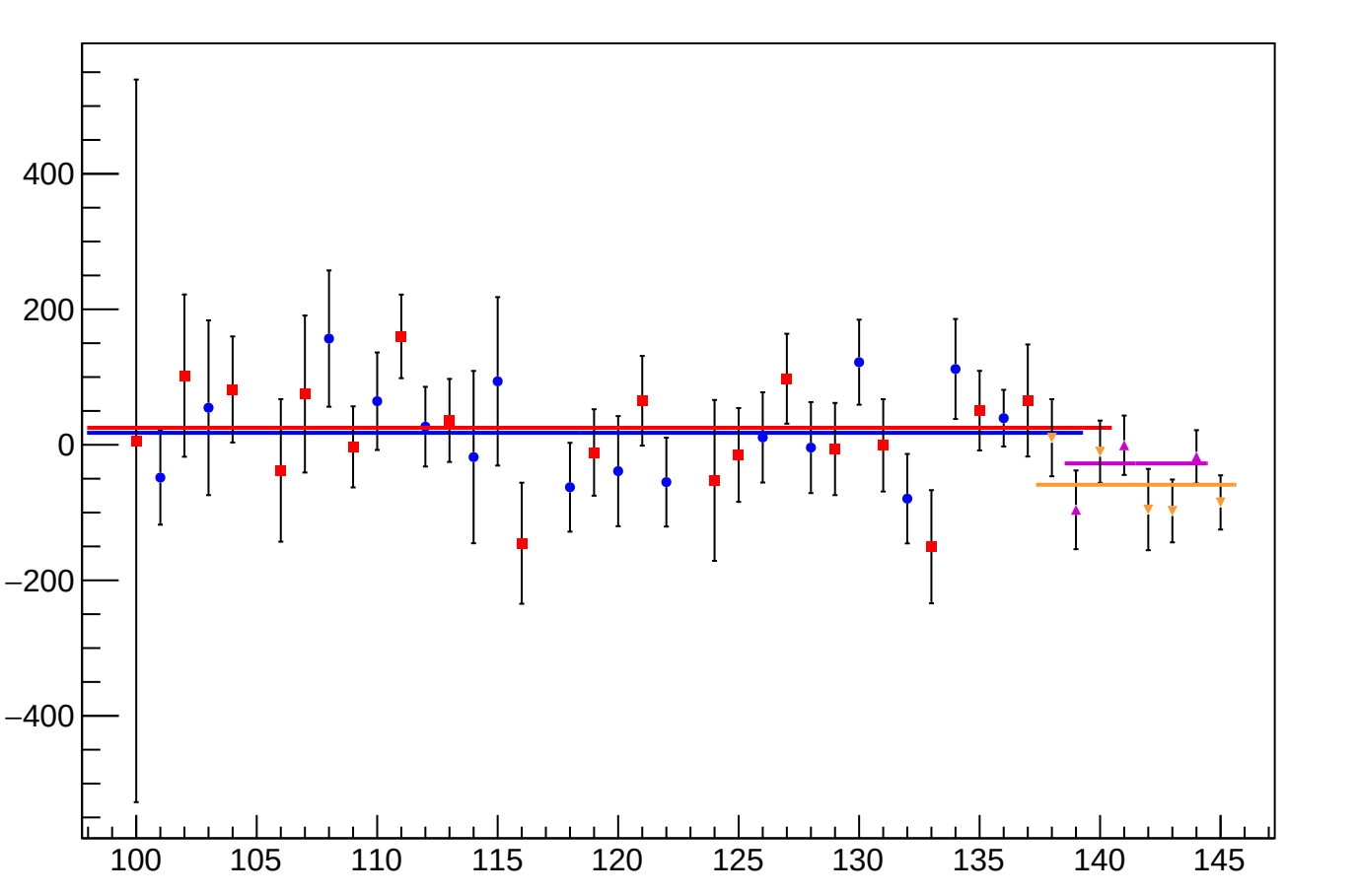
Left: 297.910+/-0.087 $\chi^2$/NDF: 617862.9/7

Right: 478.016+/-0.092 $\chi^2$/NDF: 1956645.2/34

In: 393.908+/-0.094 $\chi^2$/NDF:2087313.3/18

Out: 374.169+/-0.085 $\chi^2$/NDF:2495746.5/23

All: 382.969+/-0.063 $\chi^2$/NDF: 4607265.1/42




Right In: 17.706+/-17.470 $\chi^2$/NDF: 13.9/15

Left Out: -58.890+/-21.566 $\chi^2$/NDF:4.1/4

Right Out: 25.145+/-17.339 $\chi^2$/NDF: 18.0/18

Left In: -27.471+/-26.147 $\chi^2$/NDF:1.8/2

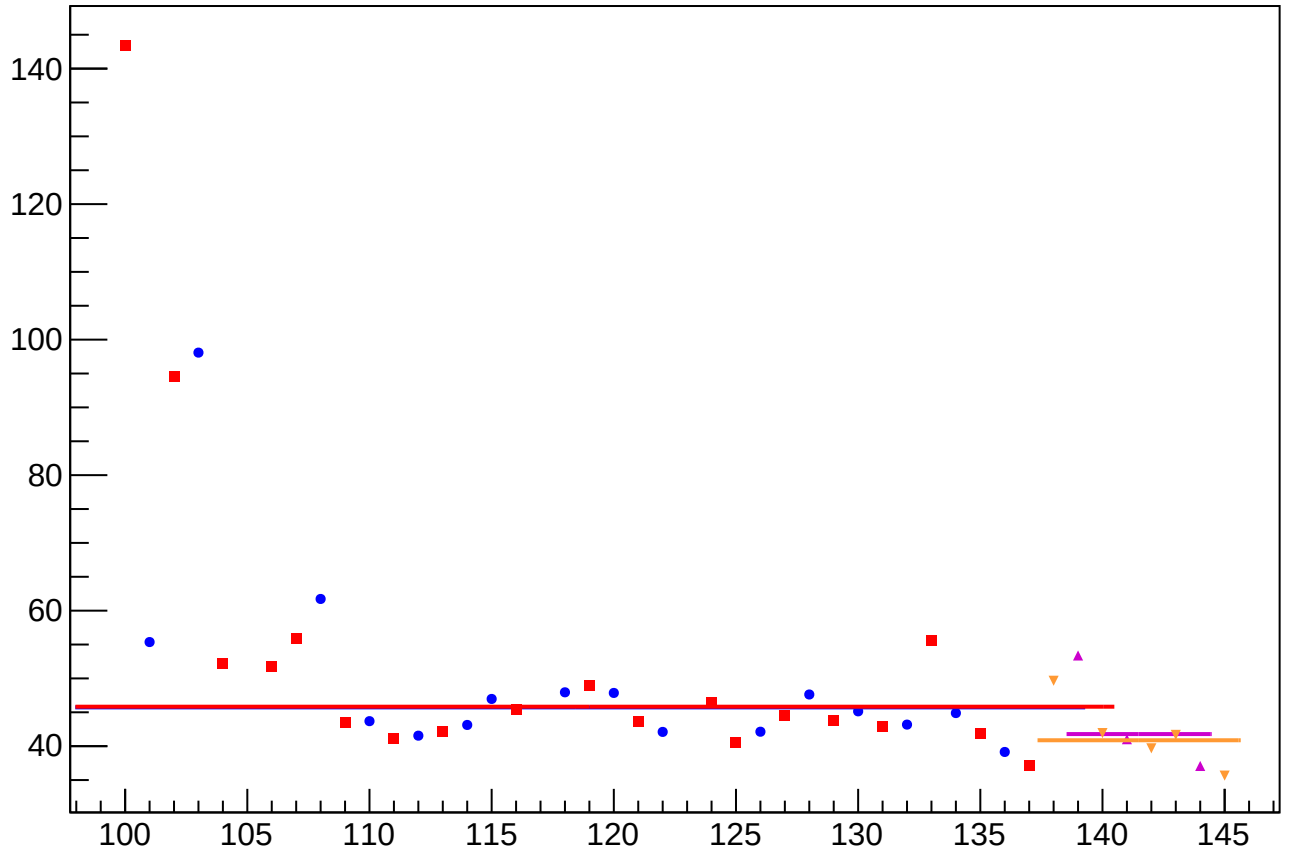
Left: -46.170+/-16.637 $\chi^2$/NDF: 6.8/7

Right: 21.453+/-12.307 $\chi^2$/NDF: 32.0/34

In: 3.763+/-14.526 $\chi^2$/NDF:17.8/18

Out: -7.848+/-13.513 $\chi^2$/NDF:31.3/23

All: -2.462+/-9.894 $\chi^2$/NDF: 49.5/42




Right In: 45.727+/-0.012 $\chi^2$/NDF: 501463.8/15

Left Out: 40.872+/-0.015 $\chi^2$/NDF:84148.9/4

Right Out: 45.825+/-0.012 $\chi^2$/NDF: 538470.5/18

Left In: 41.787+/-0.018 $\chi^2$/NDF:108857.3/2

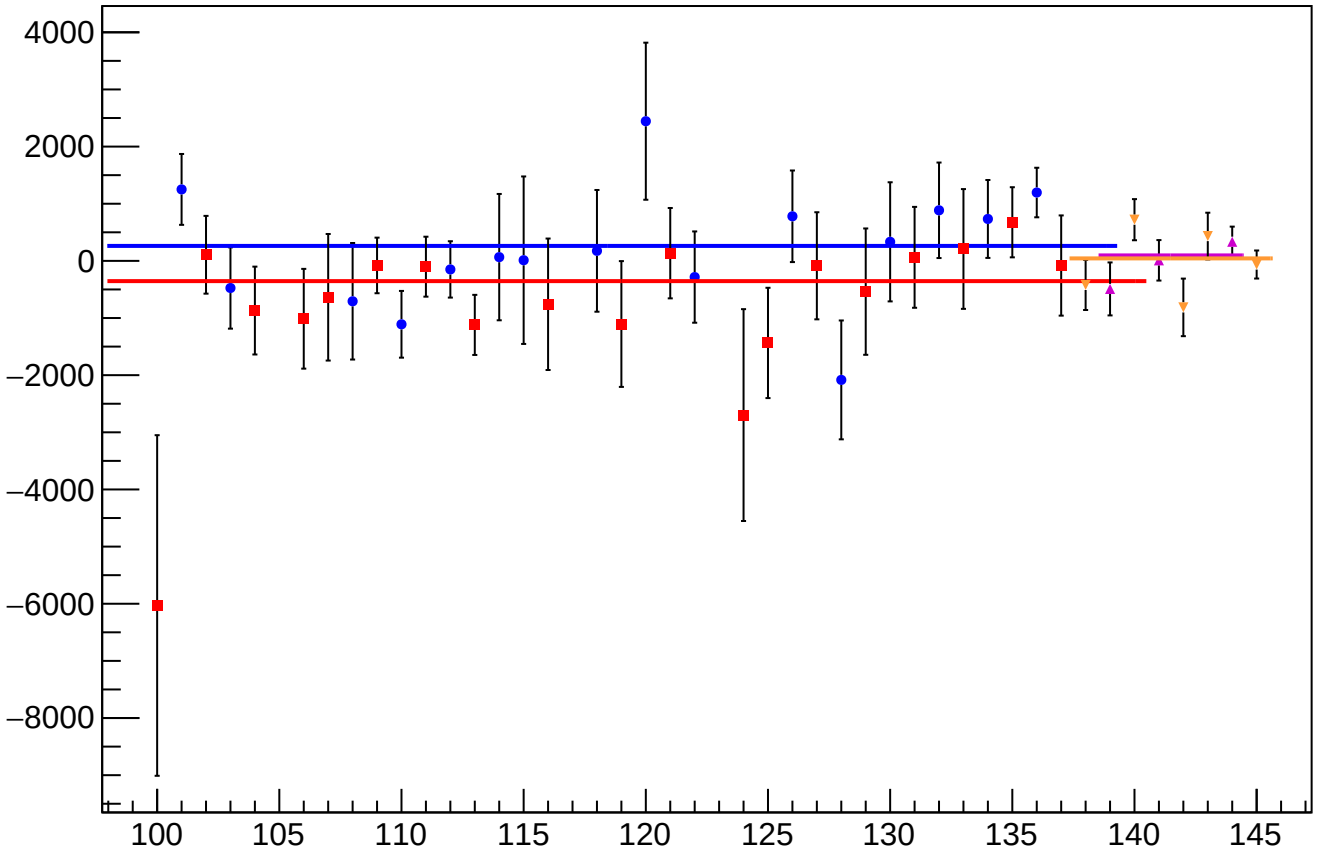
Left: 41.242+/-0.012 $\chi^2$/NDF: 194461.5/7

Right: 45.776+/-0.009 $\chi^2$/NDF: 1039966.5/34

In: 44.511+/-0.010 $\chi^2$/NDF:641719.3/18

Out: 43.881+/-0.010 $\chi^2$/NDF:686695.3/23

All: 44.173+/-0.007 $\chi^2$/NDF: 1330430.7/42




Right In: 261.947+/-185.212 $\chi^2$/NDF: 25.0/15

Left Out: 43.322+/-159.220 $\chi^2$/NDF:8.7/4

Right Out: -354.204+/-181.903 $\chi^2$/NDF: 15.2/18

Left In: 95.578+/-192.813 $\chi^2$/NDF:2.5/2

Left: 64.508+/-122.771 $\chi^2$/NDF: 11.2/7

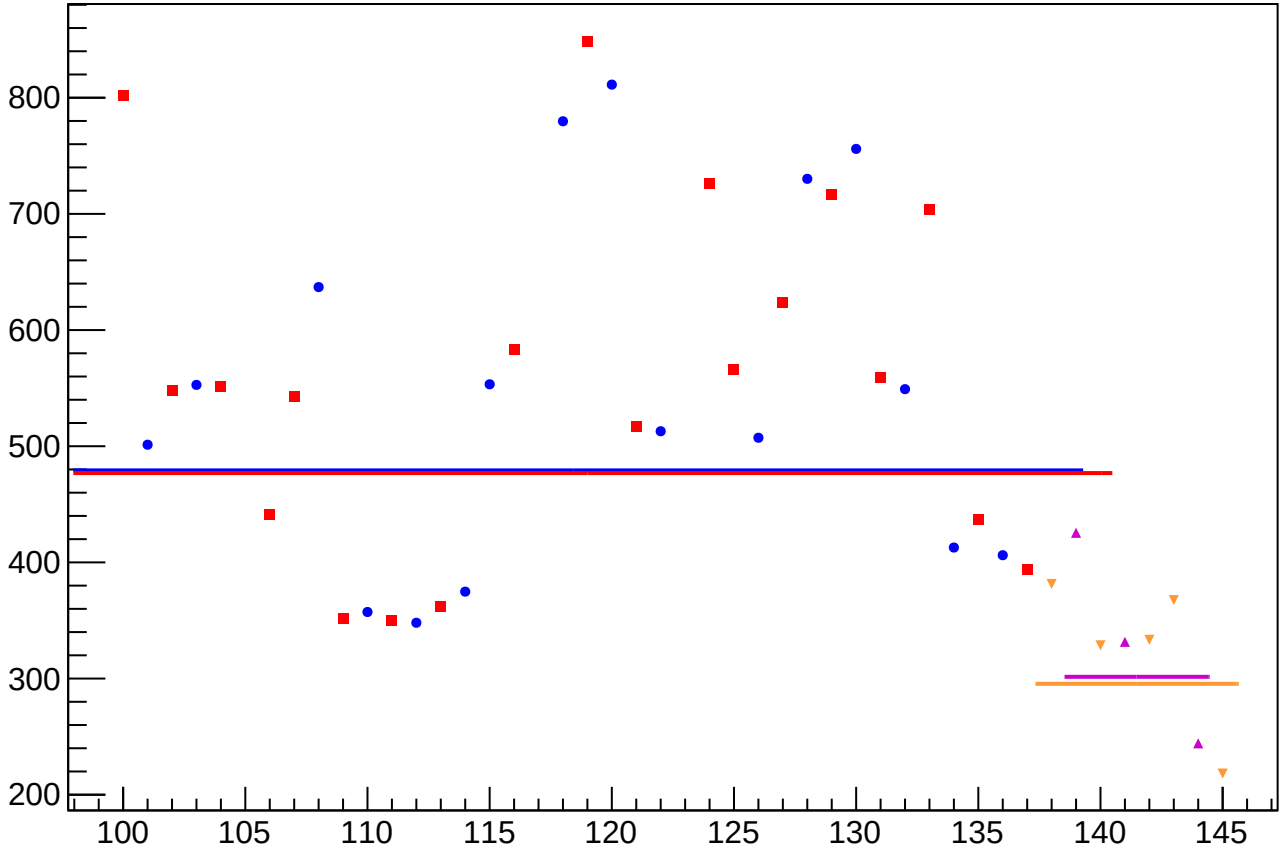
Right: -51.682+/-129.779 $\chi^2$/NDF: 45.8/34

In: 182.107+/-133.571 $\chi^2$/NDF:27.8/18

Out: -129.125+/-119.807 $\chi^2$/NDF:26.6/23

All: 9.634+/-89.187 $\chi^2$/NDF: 57.4/42

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: 295.466+/-0.113 $\chi^2$/NDF:365495.9/4

Right Out: 476.893+/-0.129 $\chi^2$/NDF: 1003767.4/18

Left In: 301.494+/-0.136 $\chi^2$/NDF:251205.0/2

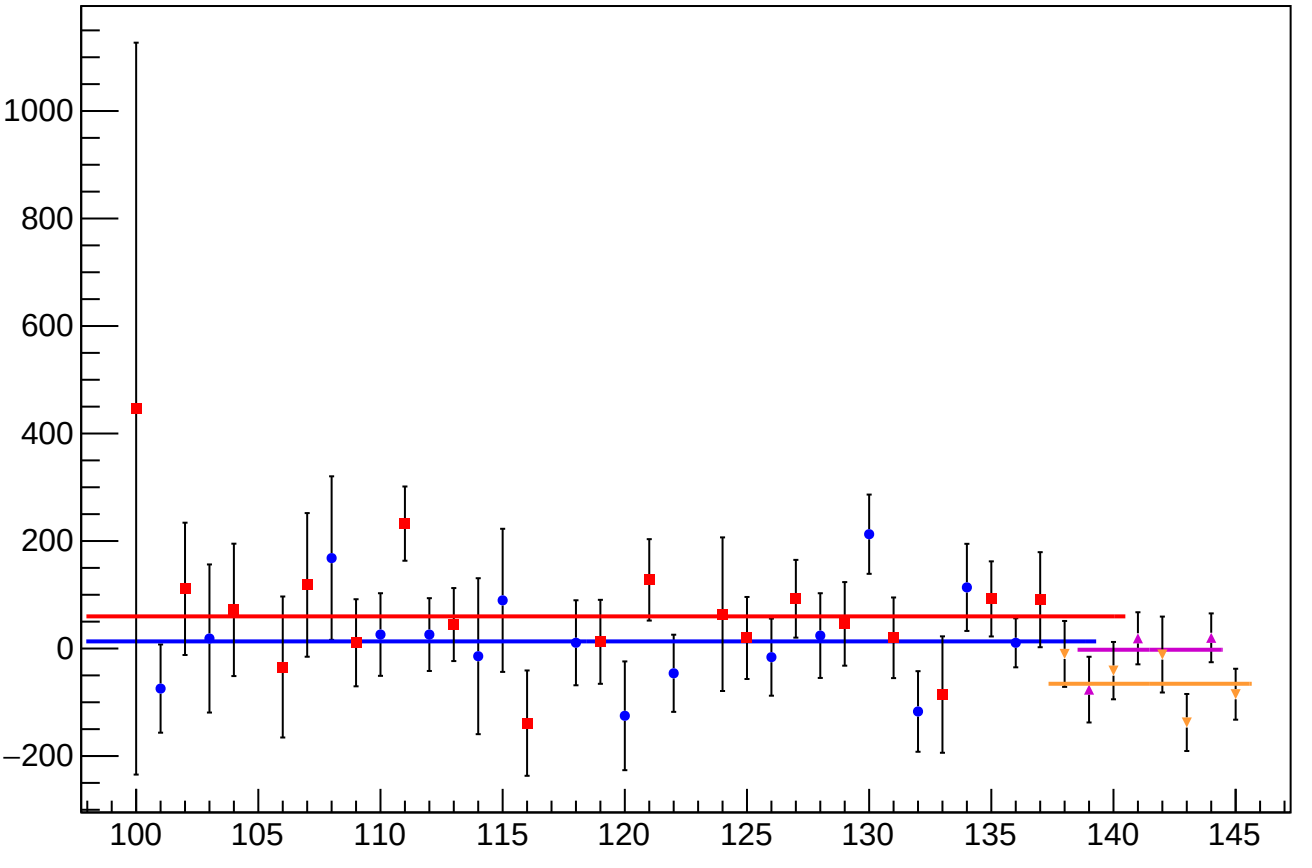
Left: 297.910+/-0.087 $\chi^2$/NDF: 617862.9/7

Right: 478.016+/-0.092 $\chi^2$/NDF: 1956645.2/34

In: 393.908+/-0.094 $\chi^2$/NDF:2087313.3/18

Out: 374.169+/-0.085 $\chi^2$/NDF:2495746.5/23

All: 382.969+/-0.063 $\chi^2$/NDF: 4607265.1/42




Right In: 13.266+/-19.849 $\chi^2$/NDF: 17.2/15

Left Out: -65.568+/-24.854 $\chi^2$/NDF:3.6/4

Right Out: 59.810+/-20.234 $\chi^2$/NDF: 16.1/18

Left In: -2.284+/-29.129 $\chi^2$/NDF:1.9/2

Left: -38.907+/-18.907 $\chi^2$/NDF: 8.3/7

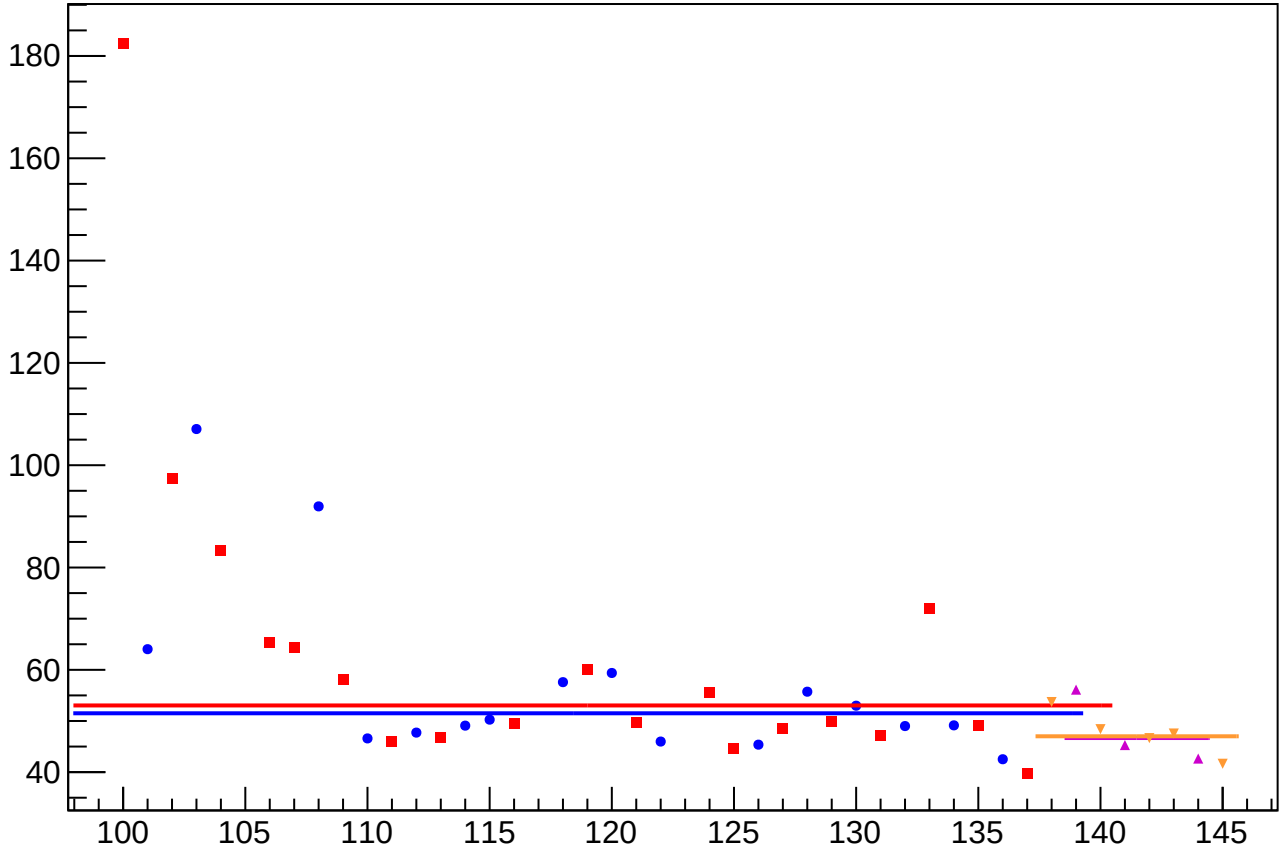
Right: 36.091+/-14.170 $\chi^2$/NDF: 36.0/34

In: 8.335+/-16.403 $\chi^2$/NDF:19.3/18

Out: 9.834+/-15.691 $\chi^2$/NDF:35.0/23

All: 9.118+/-11.339 $\chi^2$/NDF: 54.4/42

# dit_asym_sam_15_37_dd_rms vs Slug, Sign Corrected




Right In: 51.506+/-0.014 $\chi^2$/NDF: 667059.0/15

Left Out: 47.009+/-0.018 $\chi^2$/NDF:51170.4/4

Right Out: 53.037+/-0.014 $\chi^2$/NDF: 712908.4/18

Left In: 46.670+/-0.021 $\chi^2$/NDF:65134.3/2

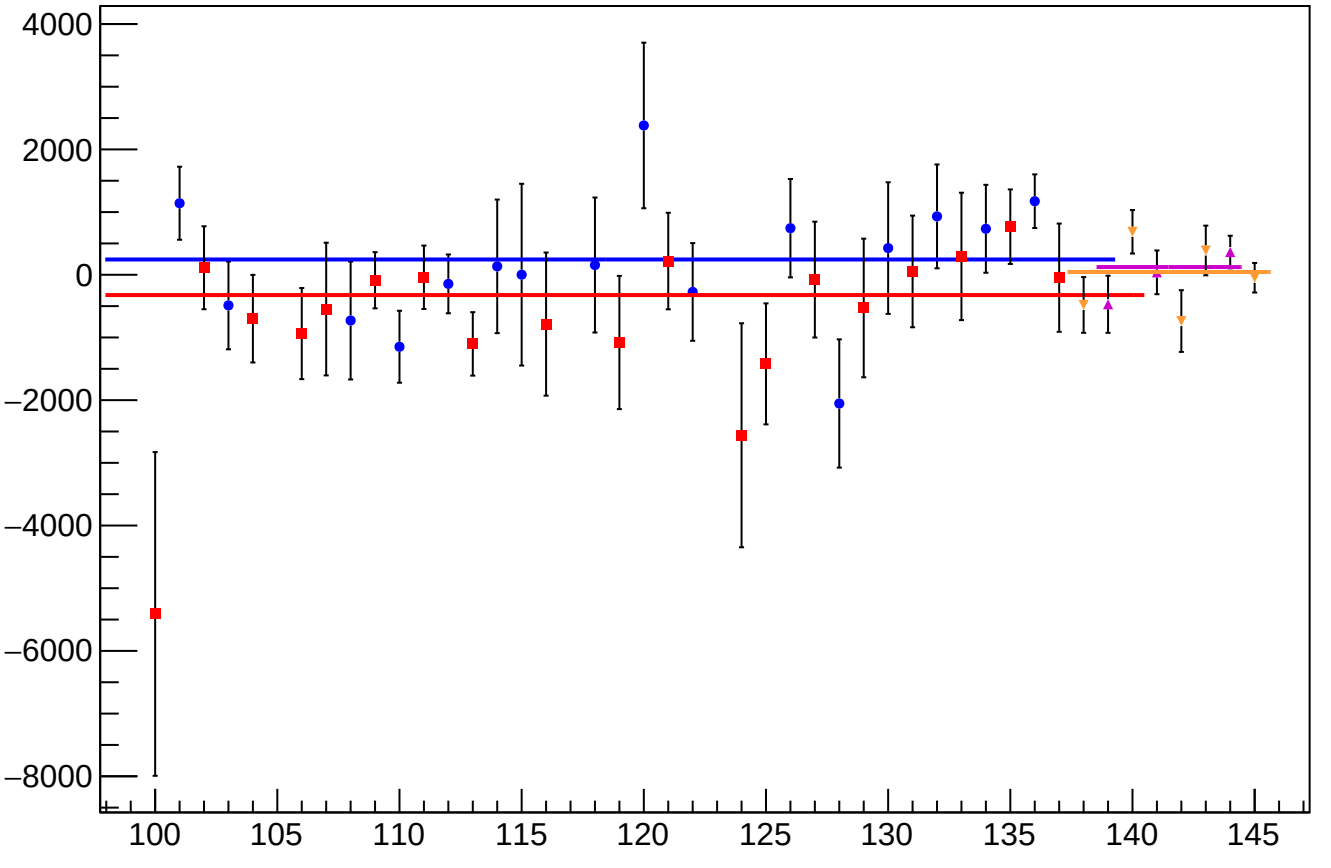
Left: 46.866+/-0.013 $\chi^2$/NDF: 116461.3/7

Right: 52.257+/-0.010 $\chi^2$/NDF: 1385808.8/34

In: 49.972+/-0.012 $\chi^2$/NDF:769833.9/18

Out: 50.634+/-0.011 $\chi^2$/NDF:834852.5/23

All: 50.318+/-0.008 $\chi^2$/NDF: 1606388.0/42




Right In: 243.828+/-180.872 $\chi^2$/NDF: 25.6/15

Left Out: 44.169+/-154.578 $\chi^2$/NDF:8.3/4

Right Out: -323.628+/-173.632 $\chi^2$/NDF: 16.5/18

Left In: 123.167+/-189.524 $\chi^2$/NDF:2.6/2

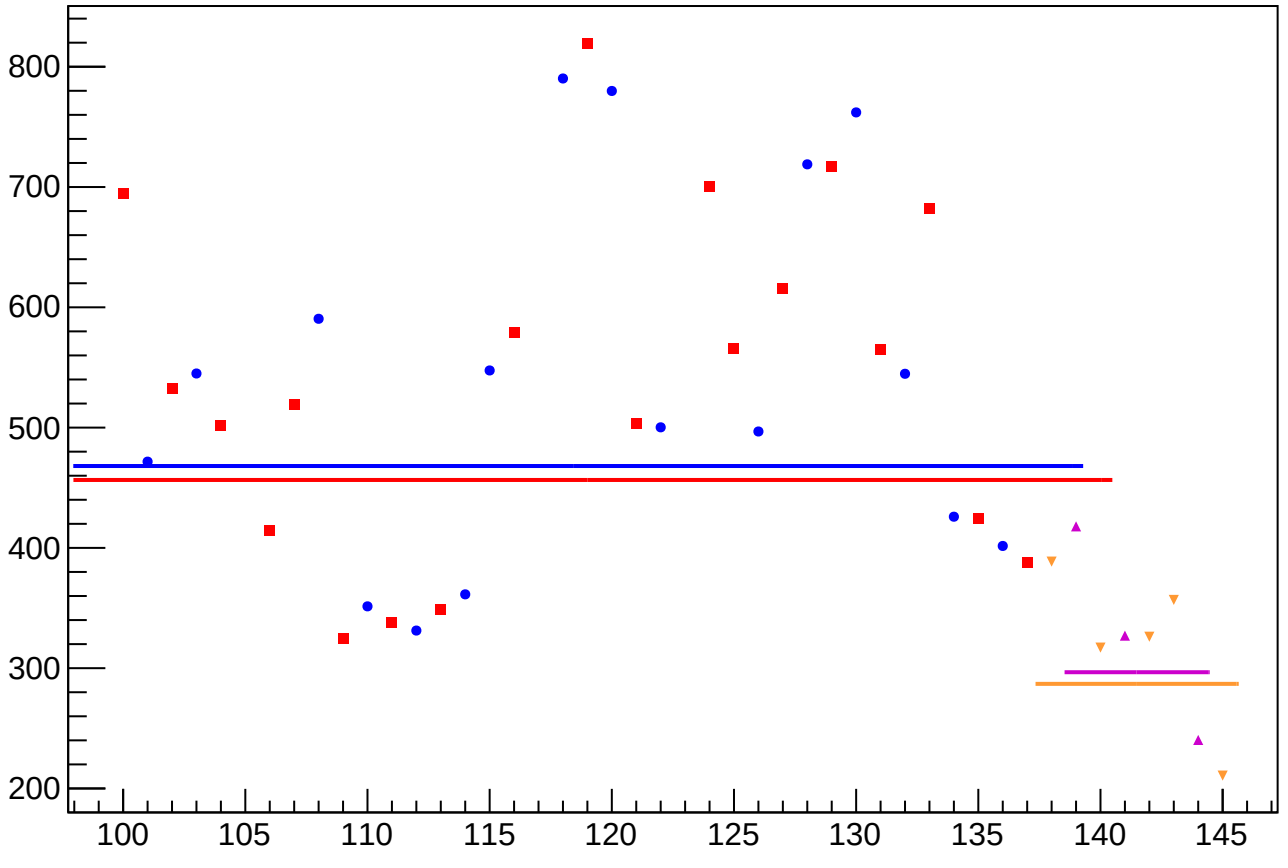
Left: 75.727+/-119.788 $\chi^2$/NDF: 11.0/7

Right: -51.485+/-125.258 $\chi^2$/NDF: 47.2/34

In: 186.314+/-130.848 $\chi^2$/NDF:28.4/18

Out: -118.450+/-115.454 $\chi^2$/NDF:27.2/23

All: 14.959+/-86.572 $\chi^2$/NDF: 58.7/42




Right In: 468.066+/-0.128 $\chi^2$/NDF: 982915.0/15

Left Out: 286.964+/-0.109 $\chi^2$/NDF:403420.2/4

Right Out: 456.468+/-0.123 $\chi^2$/NDF: 1082568.2/18

Left In: 296.642+/-0.134 $\chi^2$/NDF:250658.4/2

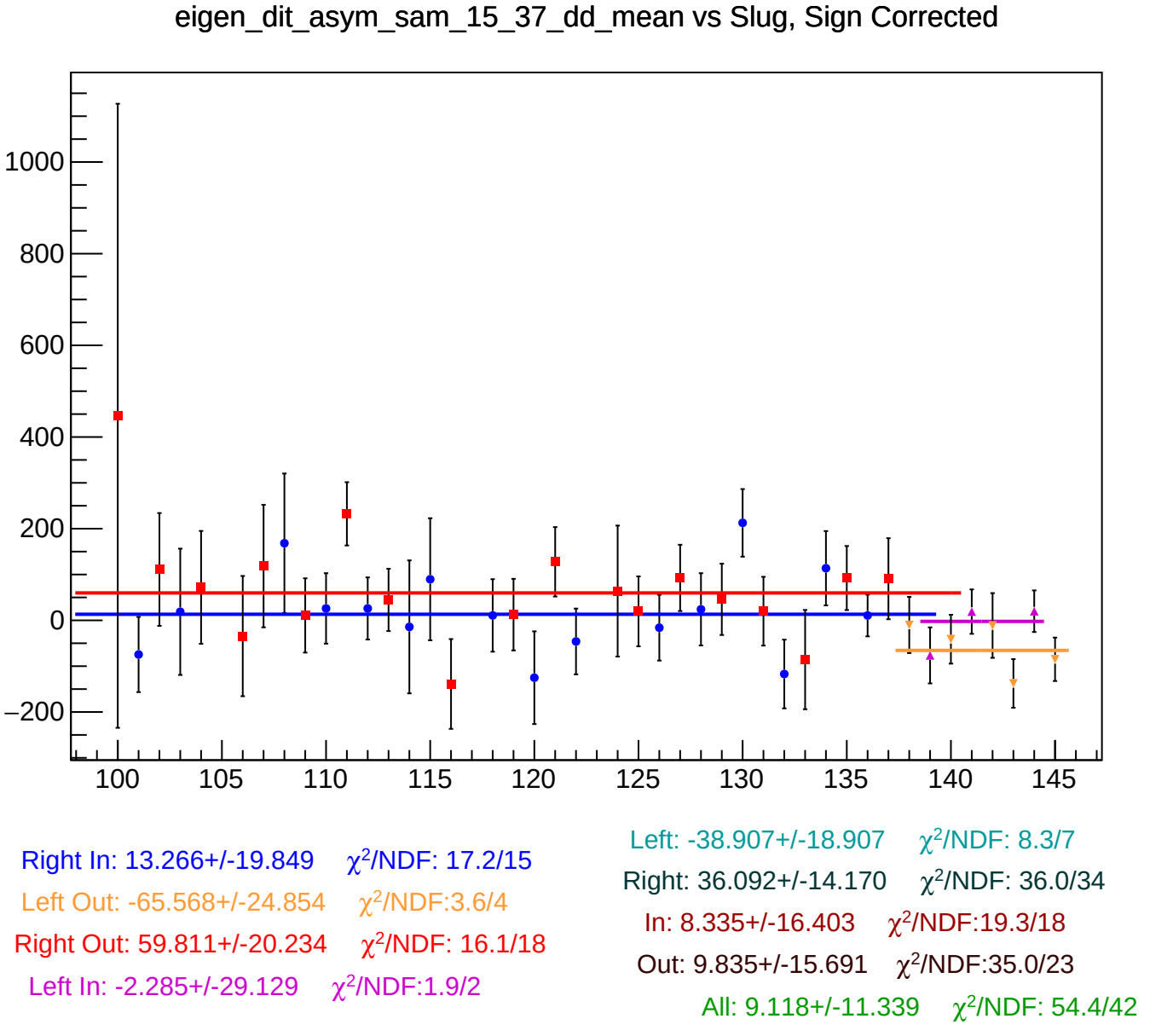
Left: 290.830+/-0.085 $\chi^2$/NDF: 657210.9/7

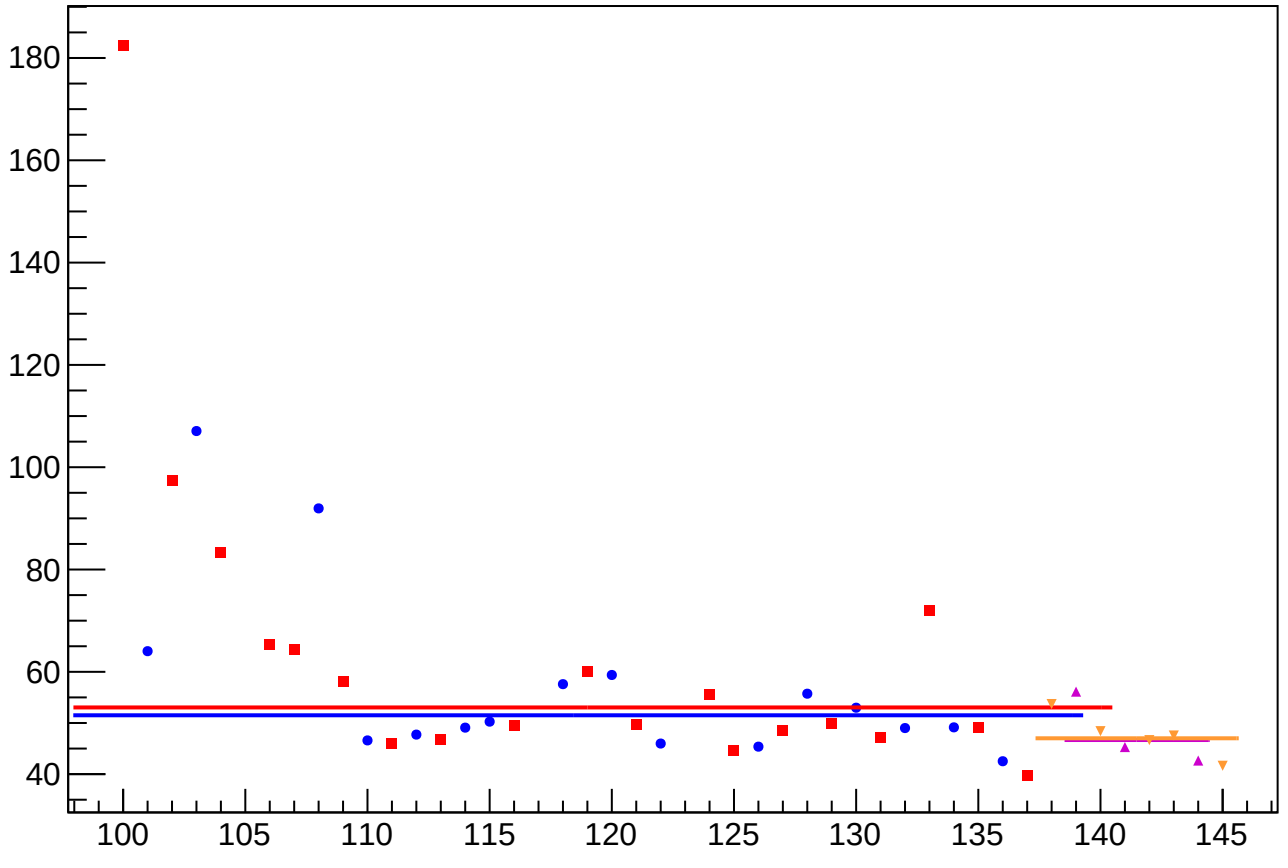
Right: 462.030+/-0.089 $\chi^2$/NDF: 2069762.6/34

In: 386.356+/-0.093 $\chi^2$/NDF:2089883.4/18

Out: 361.909+/-0.082 $\chi^2$/NDF:2549293.0/23

All: 372.610+/-0.061 $\chi^2$/NDF: 4678431.4/42


eigen_dit_asym_sam_15_37_dd_mean vs Slug, Sign Corrected
1000
800
600
400
200
0
−200
100
105
110
115
120
125
130
135
140
145
Right In: 13.266+/-19.849 χ²/NDF: 17.2/15
Left Out: -65.568+/-24.854 χ²/NDF:3.6/4
Right Out: 59.811+/-20.234 χ²/NDF: 16.1/18
Left In: -2.285+/-29.129 χ²/NDF:1.9/2
Left: -38.907+/-18.907 χ²/NDF: 8.3/7
Right: 36.092+/-14.170 χ²/NDF: 36.0/34
In: 8.335+/-16.403 χ²/NDF:19.3/18
Out: 9.835+/-15.691 χ²/NDF:35.0/23
All: 9.118+/-11.339 χ²/NDF: 54.4/42




Right In: 51.506+/-0.014 $\chi^2$/NDF: 667064.6/15

Left Out: 47.009+/-0.018 $\chi^2$/NDF:51170.7/4

Right Out: 53.037+/-0.014 $\chi^2$/NDF: 712918.4/18

Left In: 46.670+/-0.021 $\chi^2$/NDF:65134.1/2

Left: 46.866+/-0.013 $\chi^2$/NDF: 116461.4/7

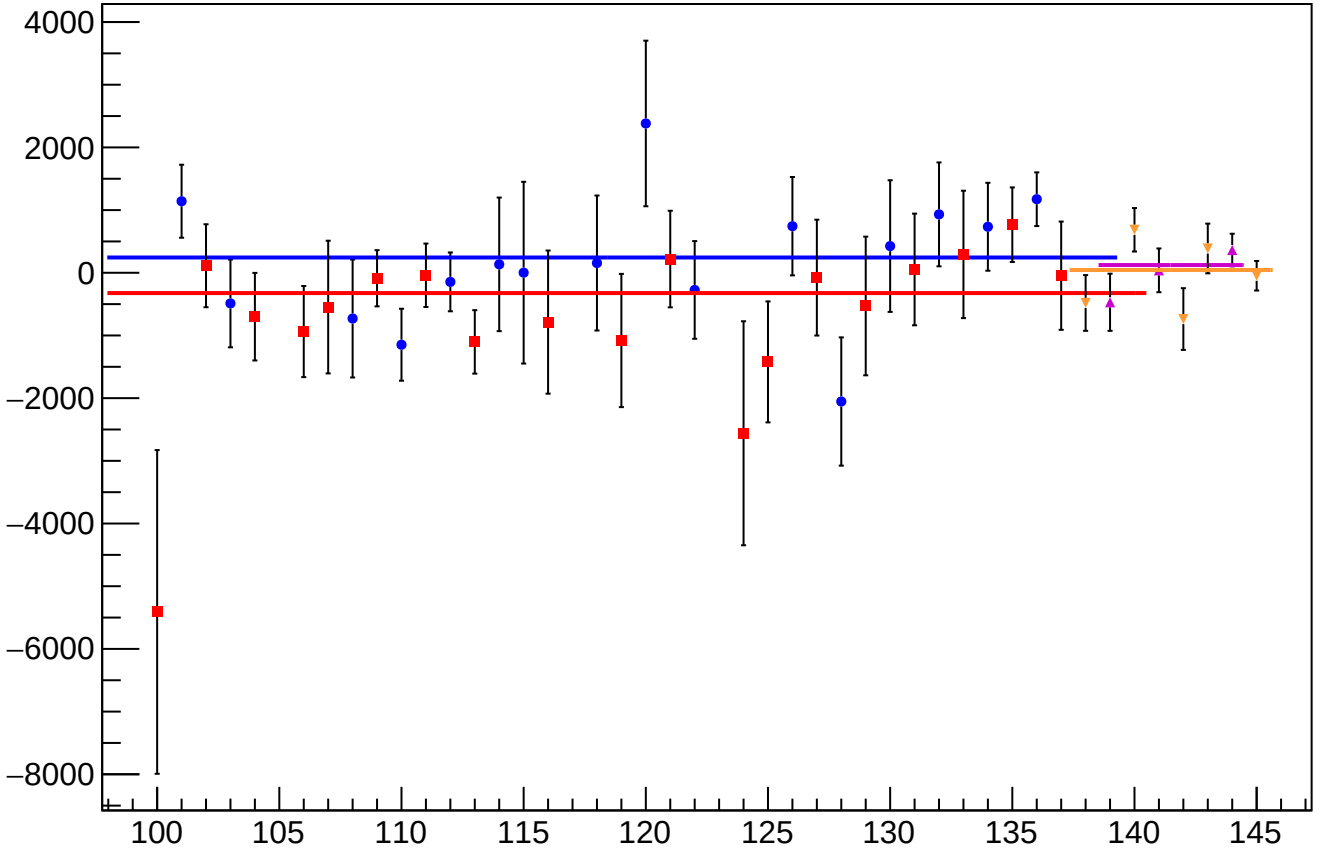
Right: 52.257+/-0.010 $\chi^2$/NDF: 1385824.6/34

In: 49.972+/-0.012 $\chi^2$/NDF:769838.6/18

Out: 50.634+/-0.011 $\chi^2$/NDF:834861.2/23

All: 50.318+/-0.008 $\chi^2$/NDF: 1606401.6/42

asym_sam_15_37_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 243.826+/-180.872 $\chi^2$/NDF: 25.6/15

Left Out: 44.170+/-154.578 $\chi^2$/NDF:8.3/4

Right Out: -323.628+/-173.631 $\chi^2$/NDF: 16.5/18

Left In: 123.168+/-189.524 $\chi^2$/NDF:2.6/2

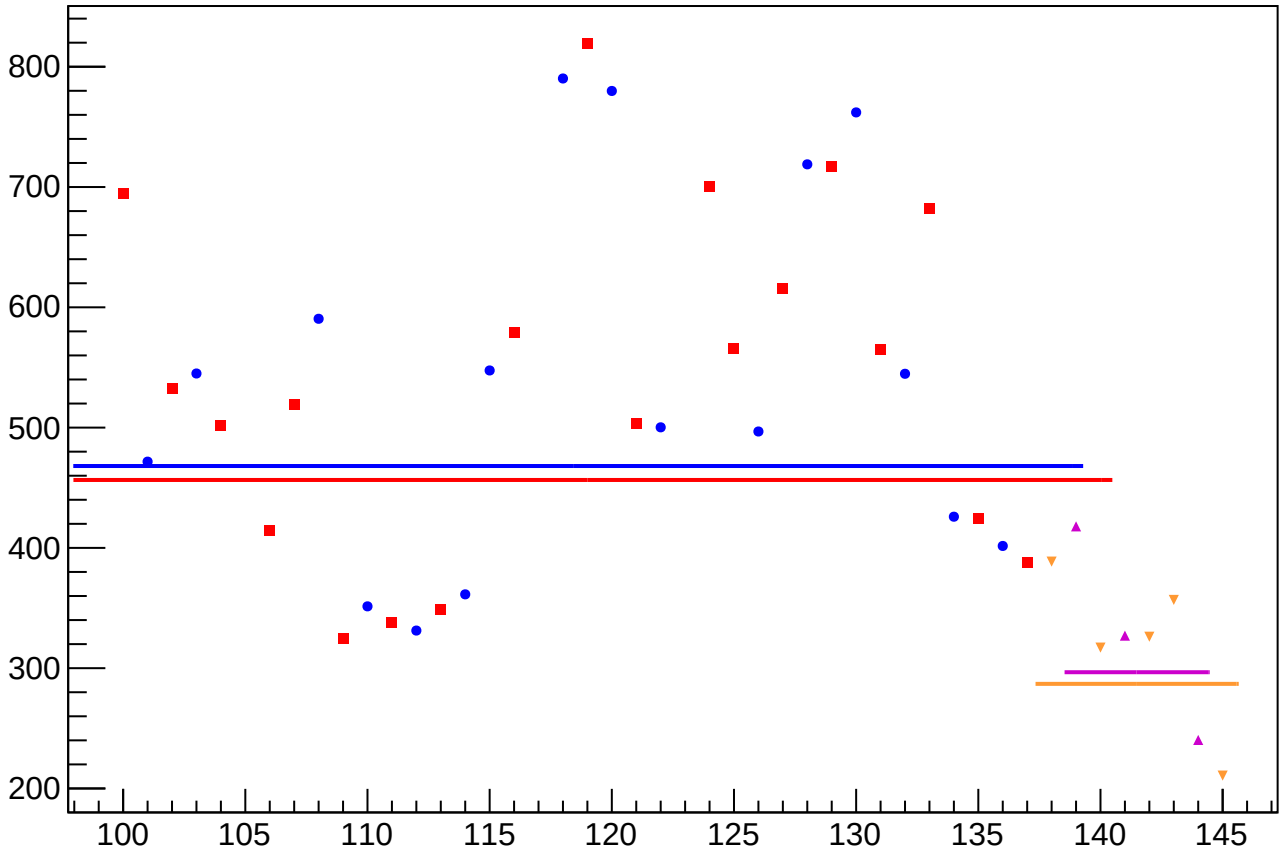
Left: 75.728+/-119.788 $\chi^2$/NDF: 11.0/7

Right: -51.485+/-125.257 $\chi^2$/NDF: 47.2/34

In: 186.314+/-130.848 $\chi^2$/NDF:28.4/18

Out: -118.449+/-115.454 $\chi^2$/NDF:27.2/23

All: 14.959+/-86.572 $\chi^2$/NDF: 58.7/42




Right In: 468.065+/-0.128 $\chi^2$/NDF: 982915.8/15

Left Out: 286.963+/-0.109 $\chi^2$/NDF:403422.4/4

Right Out: 456.467+/-0.123 $\chi^2$/NDF: 1082565.2/18

Left In: 296.642+/-0.134 $\chi^2$/NDF:250660.2/2

Left: 290.830+/-0.085 $\chi^2$/NDF: 657215.0/7

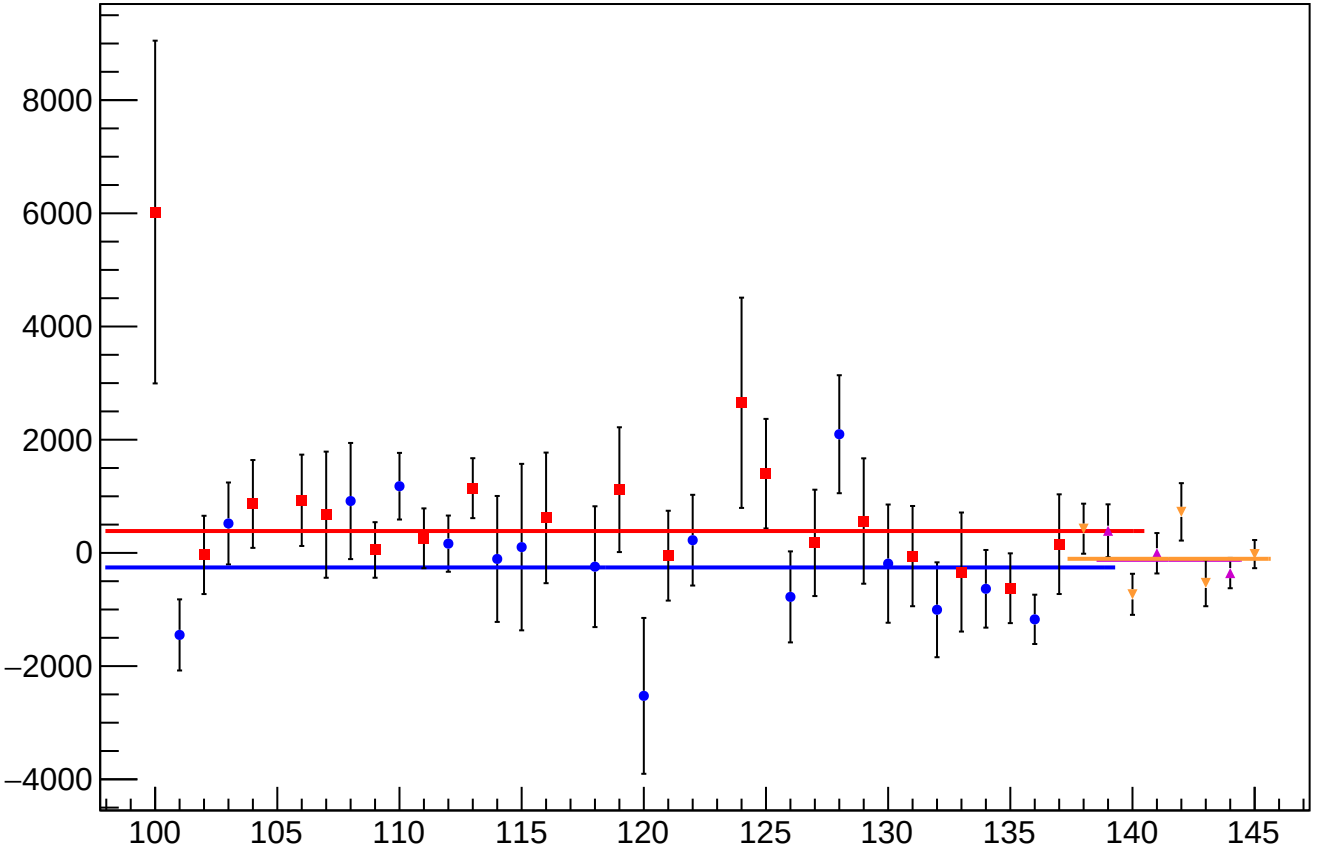
Right: 462.029+/-0.089 $\chi^2$/NDF: 2069760.5/34

In: 386.356+/-0.093 $\chi^2$/NDF:2089878.3/18

Out: 361.908+/-0.082 $\chi^2$/NDF:2549286.1/23

All: 372.610+/-0.061 $\chi^2$/NDF: 4678419.6/42

# asym_sam_15_37_dd_mean vs Slug, Sign Corrected




Right In: -256.748+/-186.462 $\chi^2$/NDF: 26.9/15

Left Out: -104.167+/-160.825 $\chi^2$/NDF:8.3/4

Right Out: 386.449+/-182.363 $\chi^2$/NDF: 14.2/18

Left In: -122.227+/-194.748 $\chi^2$/NDF:2.1/2

Left: -111.490+/-124.007 $\chi^2$/NDF: 10.4/7

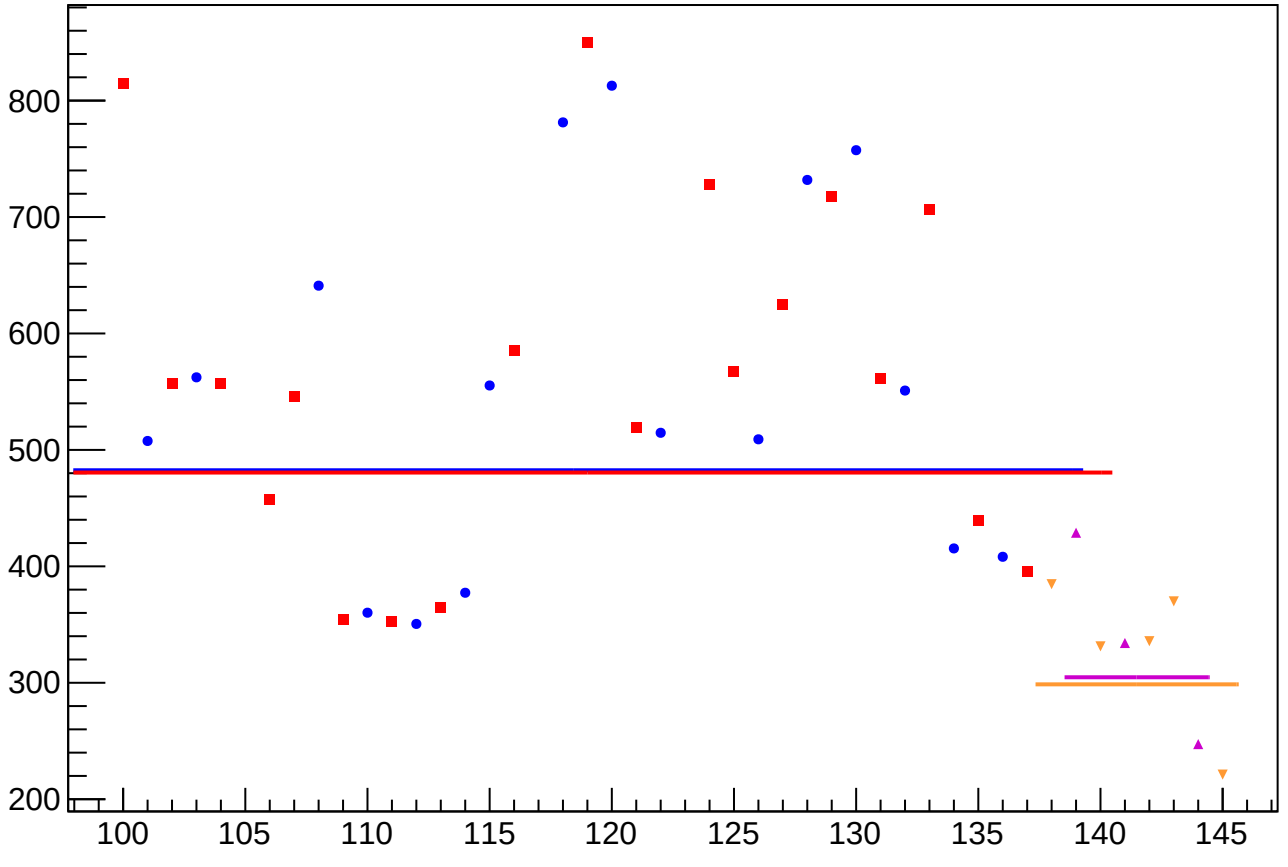
Right: 71.997+/-130.375 $\chi^2$/NDF: 47.2/34

In: -192.410+/-134.682 $\chi^2$/NDF:29.3/18

Out: 110.472+/-120.620 $\chi^2$/NDF:26.6/23

All: -24.337+/-89.853 $\chi^2$/NDF: 58.7/42

# asym_sam_15_37_dd_rms vs Slug, Sign Corrected




Right In: 482.512+/-0.132 $\chi^2$/NDF: 946526.1/15

Left Out: 298.652+/-0.114 $\chi^2$/NDF:356684.1/4

Right Out: 480.559+/-0.129 $\chi^2$/NDF: 993796.3/18

Left In: 304.733+/-0.138 $\chi^2$/NDF:246645.5/2

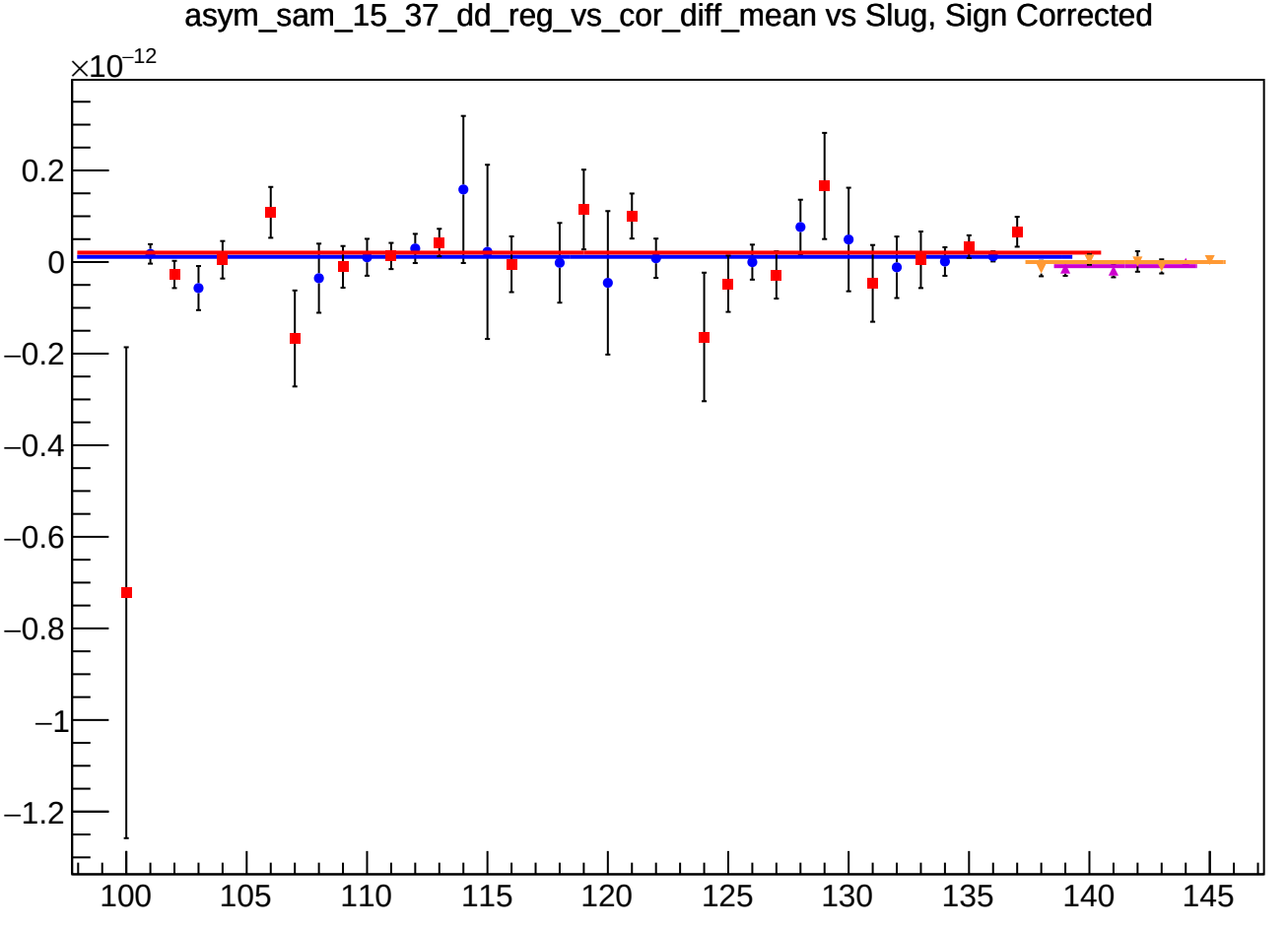
Left: 301.118+/-0.088 $\chi^2$/NDF: 604489.1/7

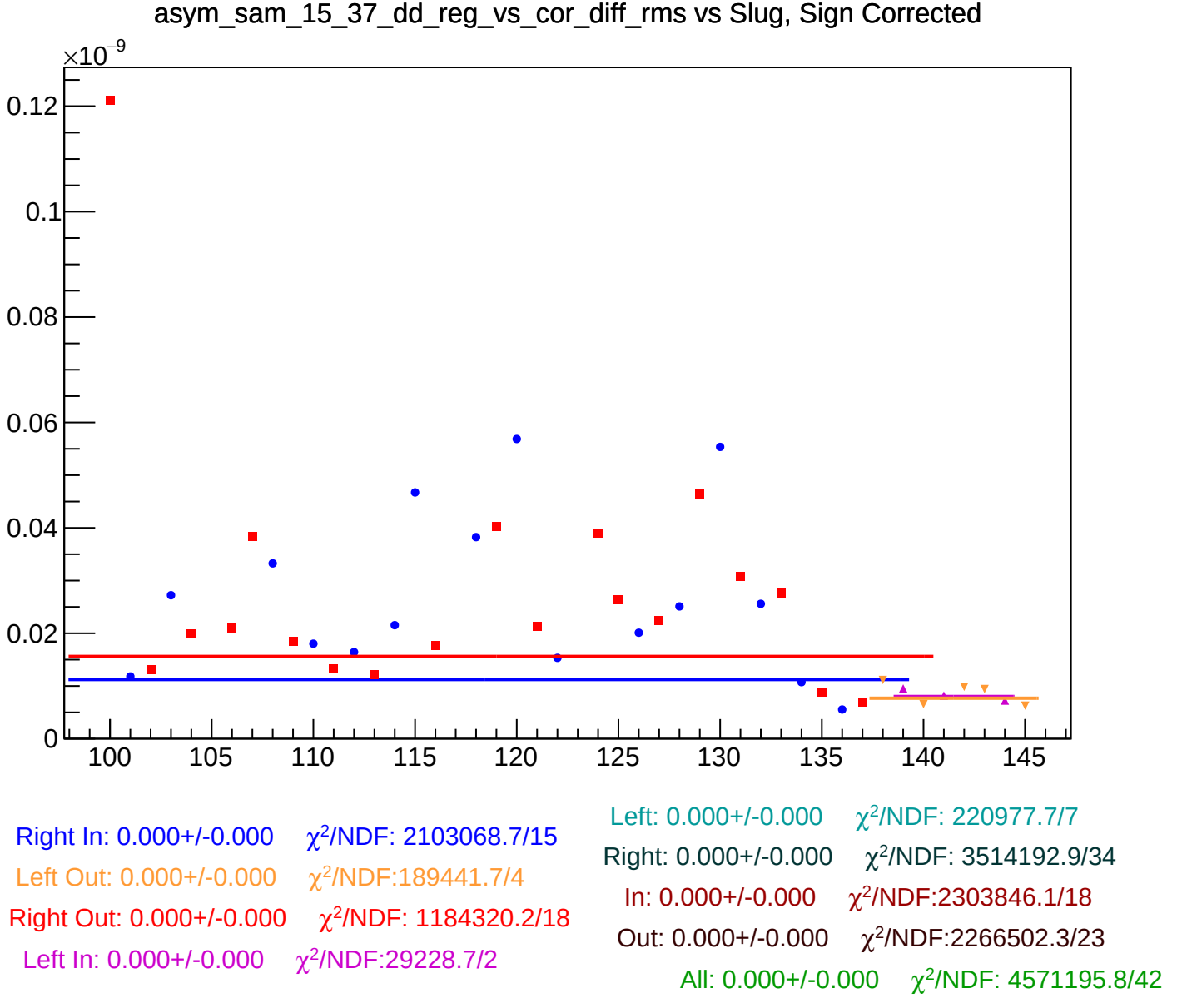
Right: 481.514+/-0.092 $\chi^2$/NDF: 1940434.6/34

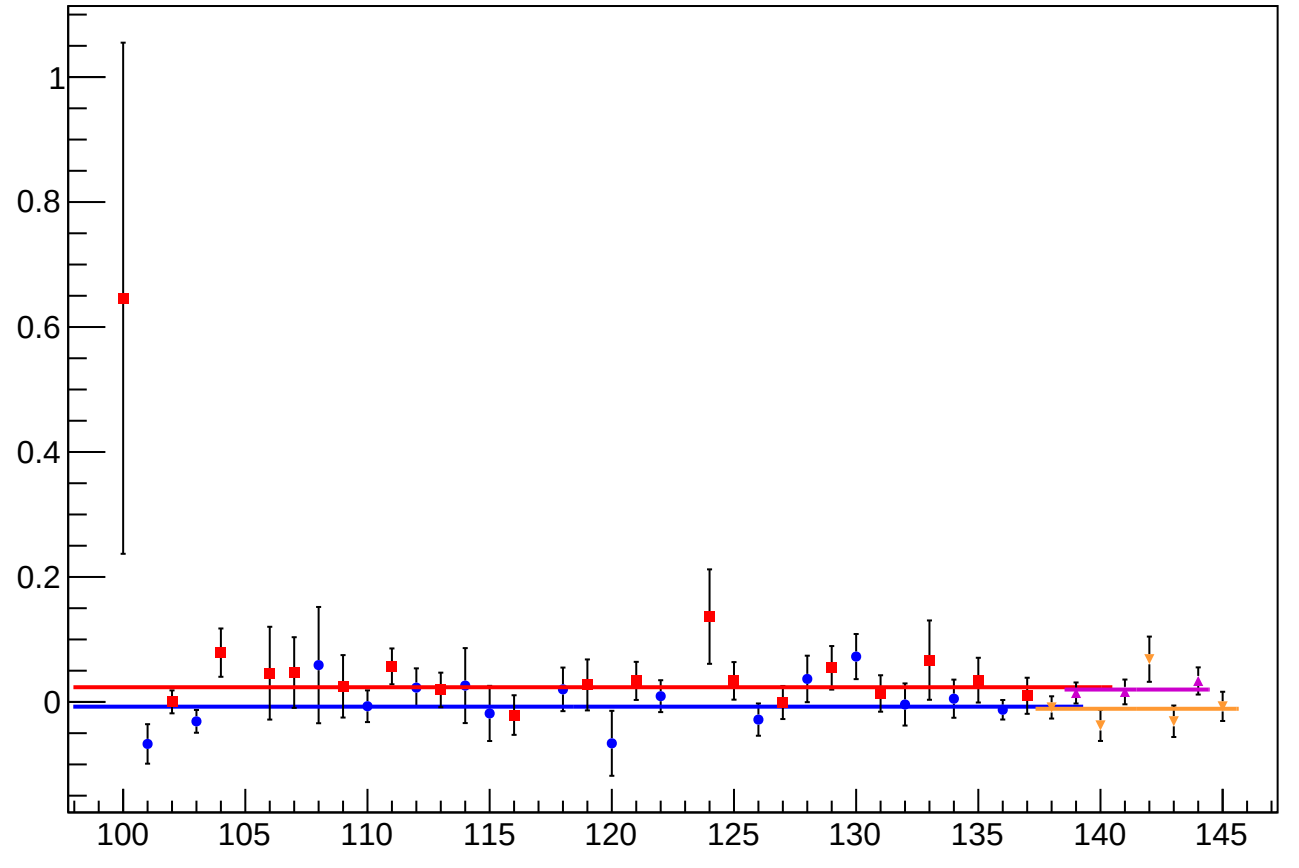
In: 397.485+/-0.095 $\chi^2$/NDF:2062711.1/18

Out: 378.234+/-0.085 $\chi^2$/NDF:2469888.5/23

All: 386.803+/-0.064 $\chi^2$/NDF: 4555273.7/42


asym_sam_15_37_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 5.4/15
Left Out: -0.000+/-0.000 χ²/NDF:1.5/4
Right Out: 0.000+/-0.000 χ²/NDF: 23.7/18
Left In: -0.000+/-0.000 χ²/NDF:1.1/2
Left: -0.000+/-0.000 χ²/NDF: 3.4/7
Right: 0.000+/-0.000 χ²/NDF: 29.7/34
In: 0.000+/-0.000 χ²/NDF:9.9/18
Out: 0.000+/-0.000 χ²/NDF:28.2/23
All: 0.000+/-0.000 χ²/NDF: 38.5/42


asym_sam_15_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2103068.7/15
Left Out: 0.000+/-0.000 χ²/NDF:189441.7/4
Right Out: 0.000+/-0.000 χ²/NDF: 1184320.2/18
Left In: 0.000+/-0.000 χ²/NDF:29228.7/2
Left: 0.000+/-0.000 χ²/NDF: 220977.7/7
Right: 0.000+/-0.000 χ²/NDF: 3514192.9/34
In: 0.000+/-0.000 χ²/NDF:2303846.1/18
Out: 0.000+/-0.000 χ²/NDF:2266502.3/23
All: 0.000+/-0.000 χ²/NDF: 4571195.8/42




Right In: -0.008+/-0.007 $\chi^2$/NDF: 16.7/15

Left Out: -0.011+/-0.011 $\chi^2$/NDF:6.6/4

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: 0.020+/-0.011 $\chi^2$/NDF:0.5/2

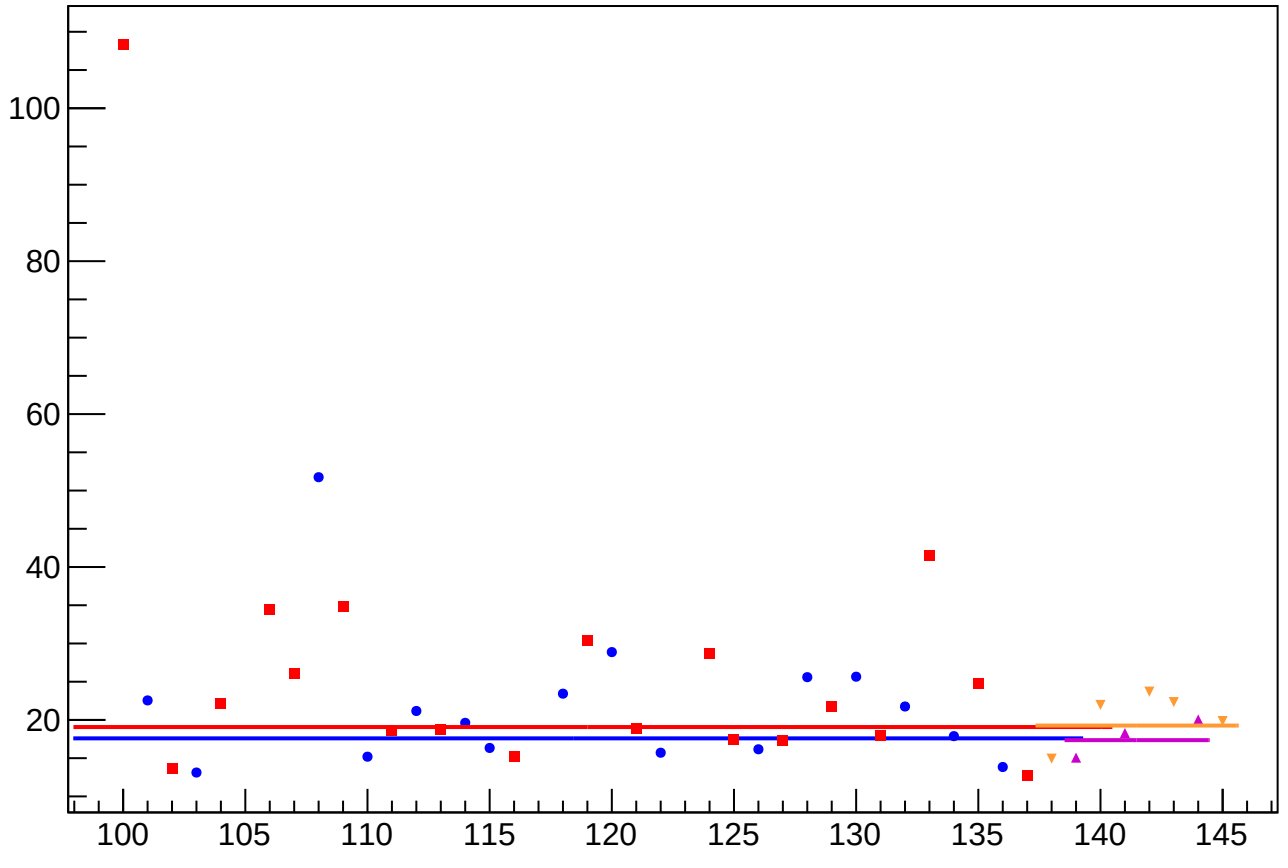
Left: 0.004+/-0.008 $\chi^2$/NDF: 11.2/7

Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: 0.001+/-0.006 $\chi^2$/NDF:21.6/18

Out: 0.012+/-0.006 $\chi^2$/NDF:28.2/23

All: 0.006+/-0.004 $\chi^2$/NDF: 51.3/42




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993249.5/15

Left Out: 19.267+/-0.007 $\chi^2$/NDF:202273.2/4

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247983.1/18

Left In: 17.357+/-0.008 $\chi^2$/NDF:72364.2/2

Left: 18.352+/-0.005 $\chi^2$/NDF: 305804.5/7

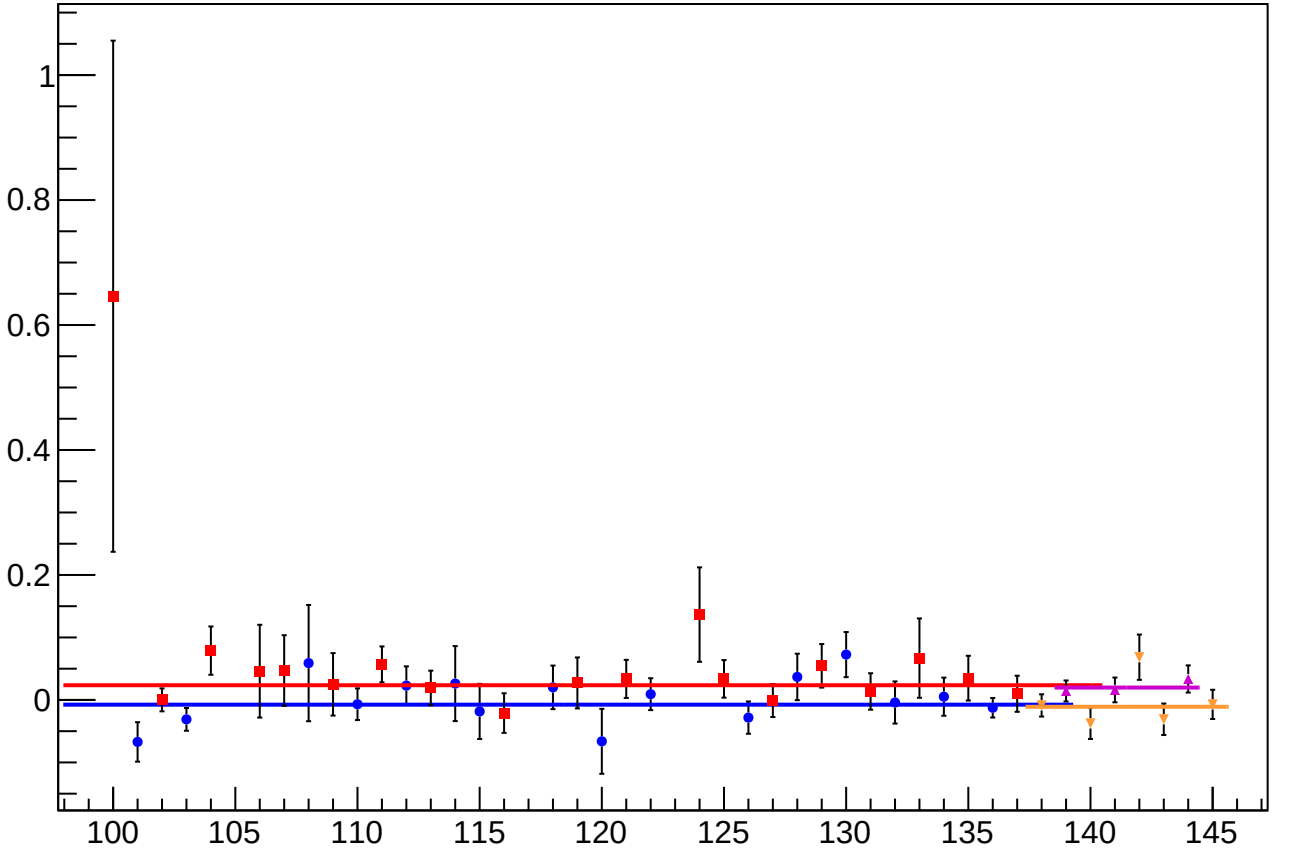
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280449.7/34

In: 17.522+/-0.004 $\chi^2$/NDF:1066243.4/18

Out: 19.140+/-0.004 $\chi^2$/NDF:1450696.7/23

All: 18.302+/-0.003 $\chi^2$/NDF: 2586383.2/42

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+/-0.011 $\chi^2$/NDF:6.6/4

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: 0.020+/-0.011 $\chi^2$/NDF:0.5/2

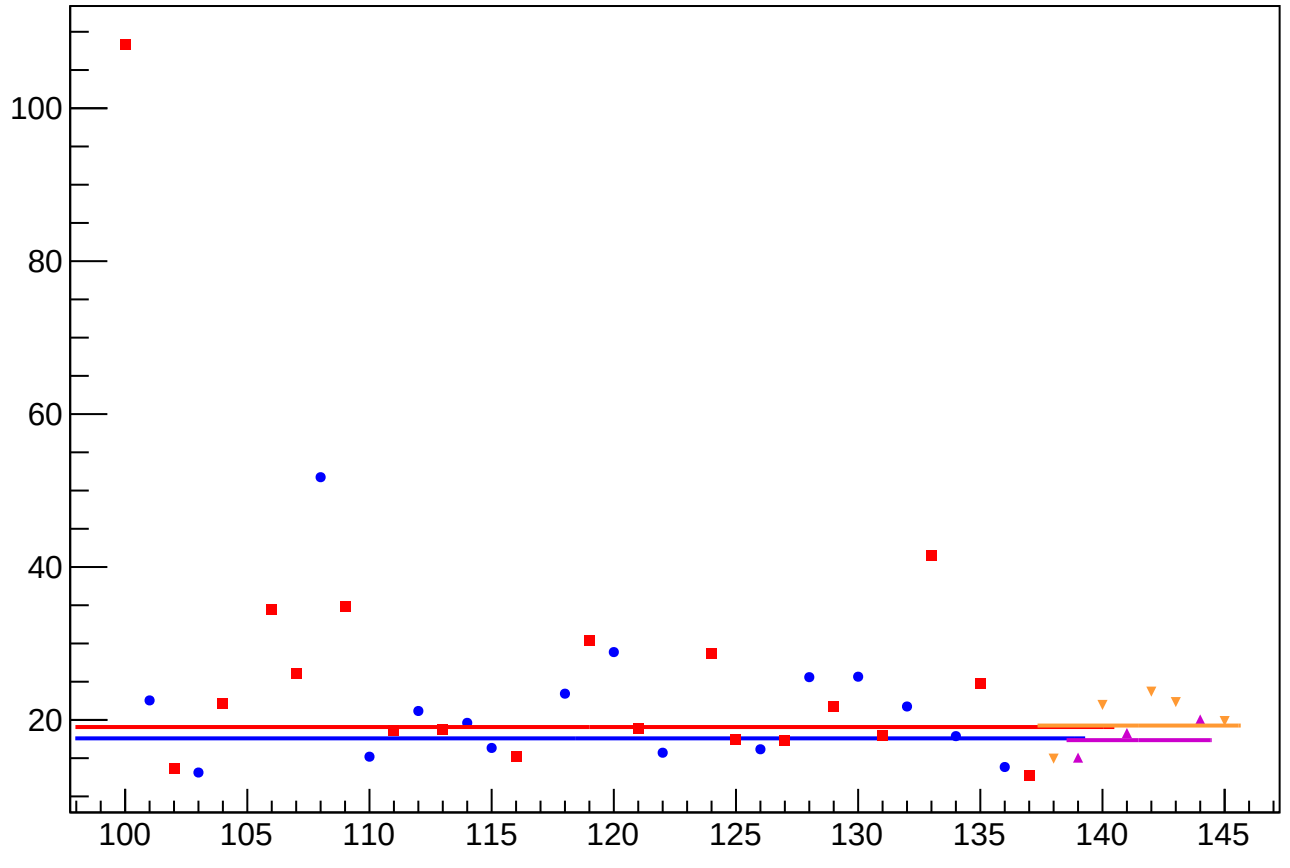
Left: 0.004+/-0.008 $\chi^2$/NDF: 11.2/7

Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: 0.001+/-0.006 $\chi^2$/NDF:21.6/18

Out: 0.012+/-0.006 $\chi^2$/NDF:28.2/23

All: 0.006+/-0.004 $\chi^2$/NDF: 51.3/42




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993249.5/15

Left Out: 19.267+/-0.007 $\chi^2$/NDF:202273.2/4

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247983.1/18

Left In: 17.357+/-0.008 $\chi^2$/NDF:72364.2/2

Left: 18.352+/-0.005 $\chi^2$/NDF: 305804.5/7

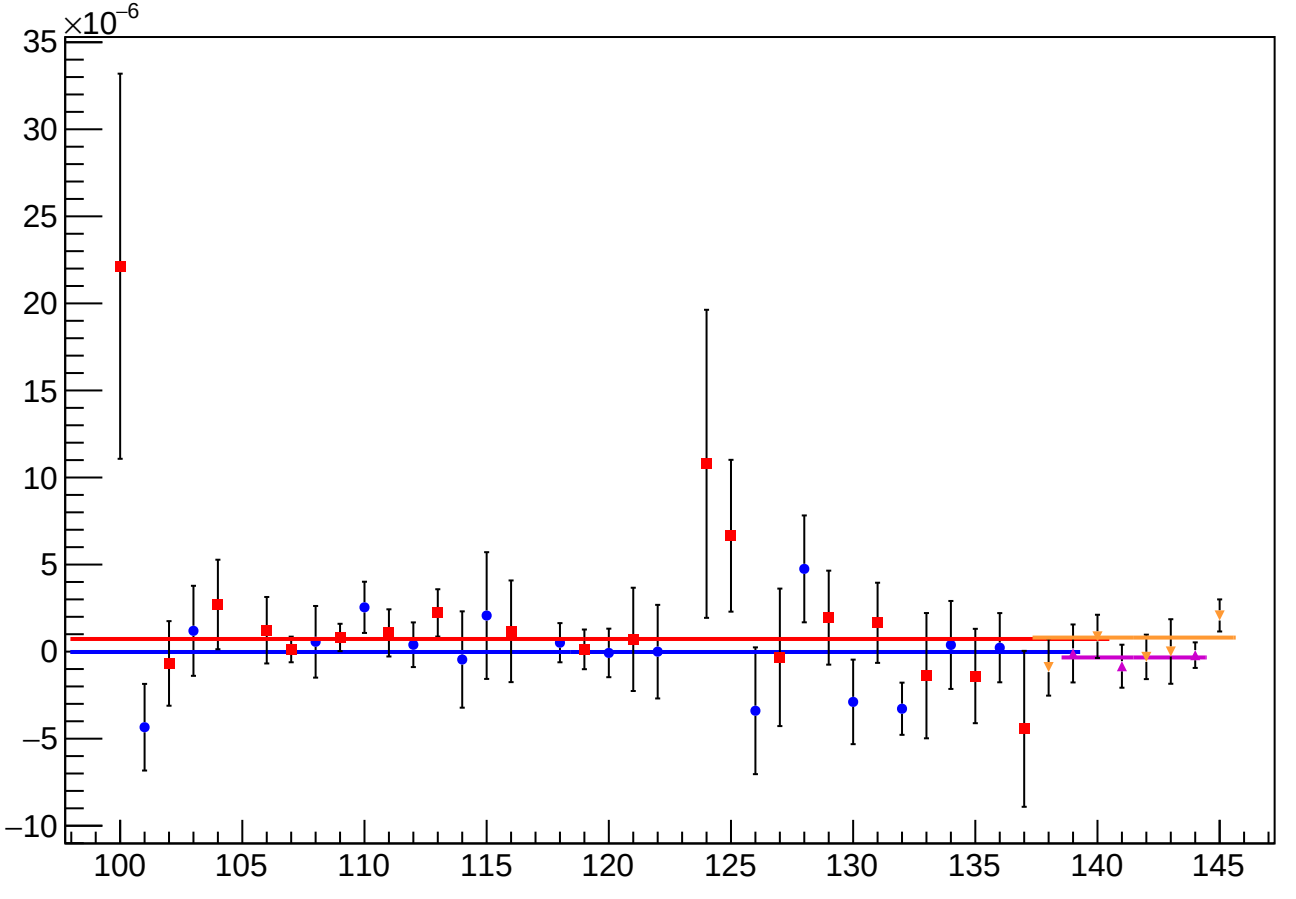
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280449.7/34

In: 17.522+/-0.004 $\chi^2$/NDF:1066243.4/18

Out: 19.140+/-0.004 $\chi^2$/NDF:1450696.7/23

All: 18.302+/-0.003 $\chi^2$/NDF: 2586383.2/42

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:3.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 12.9/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.2/2

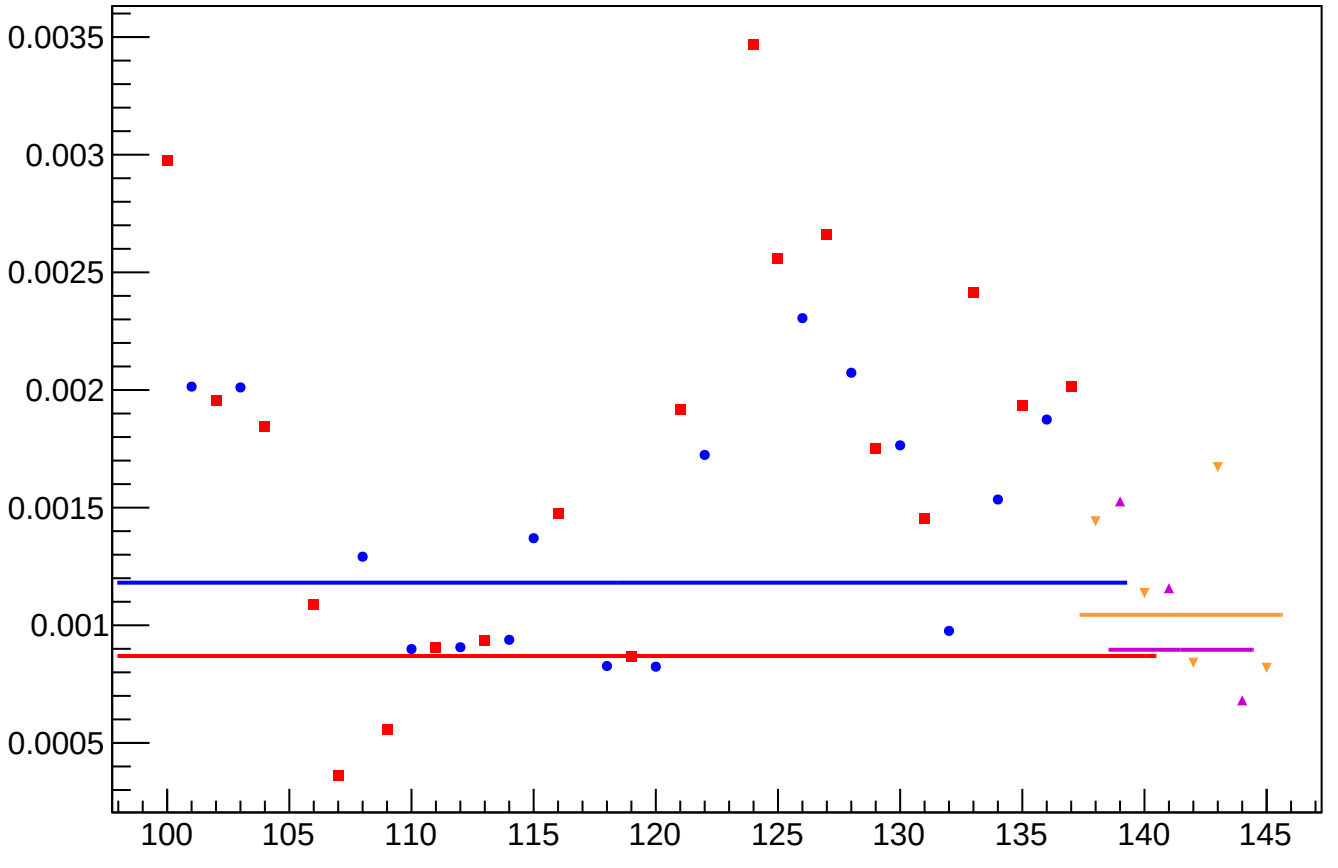
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.1/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 30.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:16.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 37.1/42




Right In: 0.001+/-0.000 $\chi^2$/NDF: 1828304.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:528150.0/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4435351.6/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:548526.3/2

Left: 0.001+/-0.000 $\chi^2$/NDF: 1142445.4/7

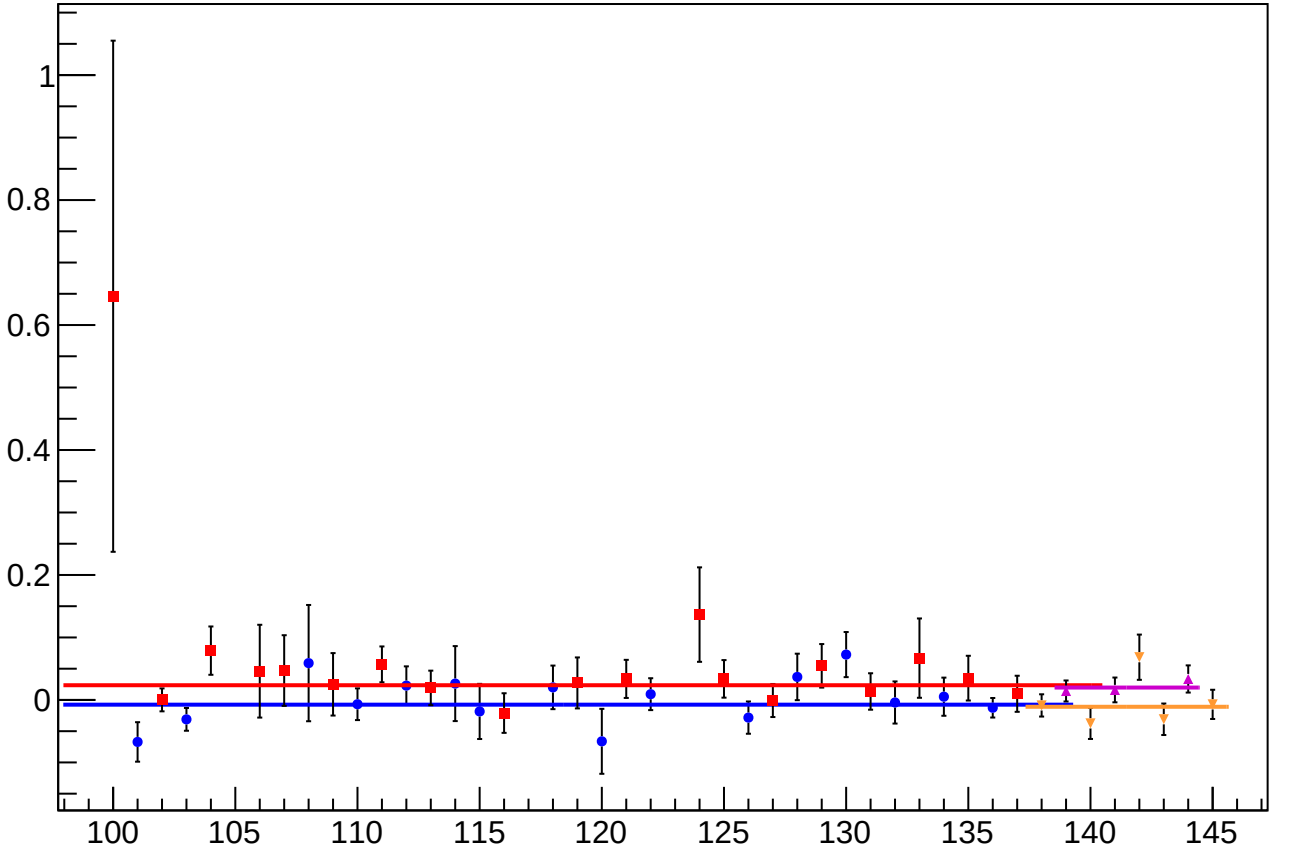
Right: 0.001+/-0.000 $\chi^2$/NDF: 6790405.1/34

In: 0.001+/-0.000 $\chi^2$/NDF:2661265.7/18

Out: 0.001+/-0.000 $\chi^2$/NDF:5094558.1/23

All: 0.001+/-0.000 $\chi^2$/NDF: 7935714.3/42

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+/-0.011 $\chi^2$/NDF:6.6/4

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: 0.020+/-0.011 $\chi^2$/NDF:0.5/2

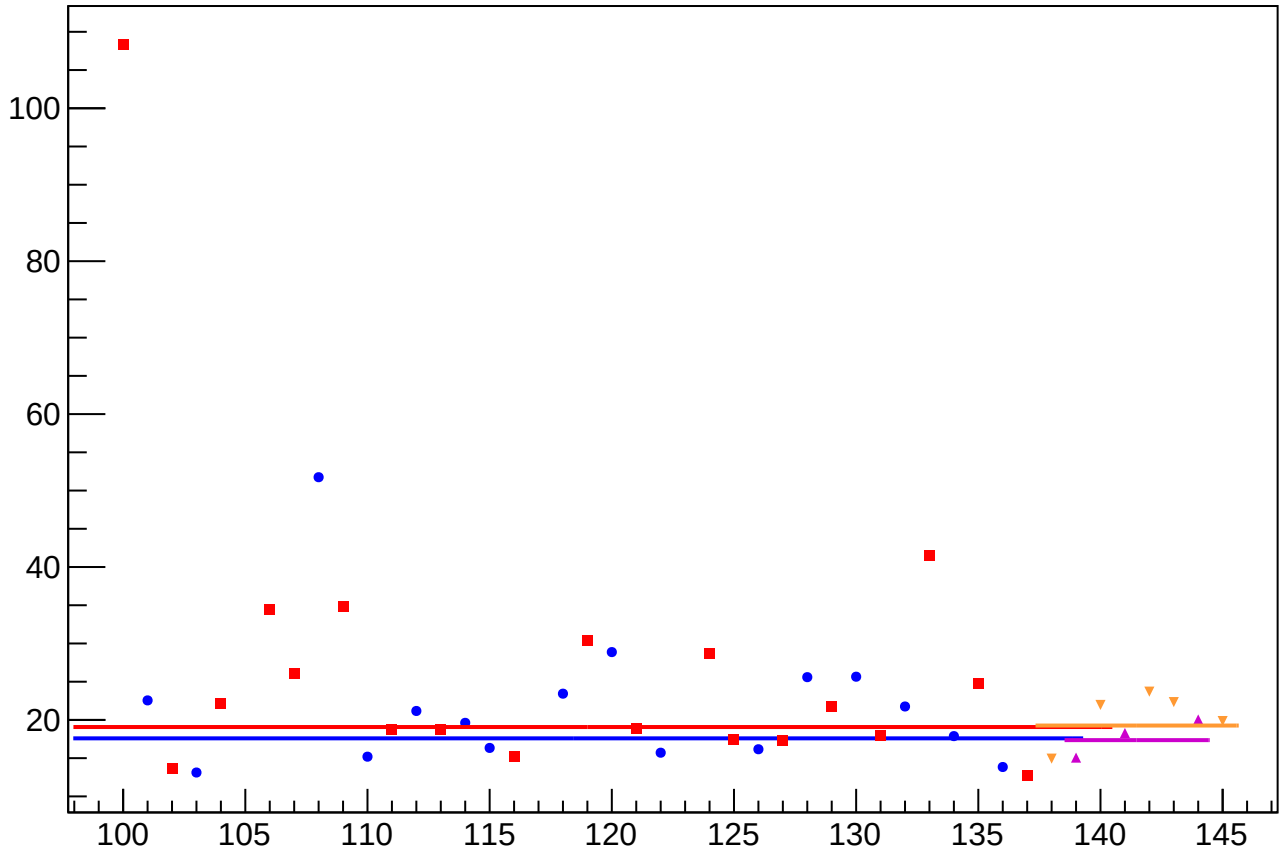
Left: 0.004+/-0.008 $\chi^2$/NDF: 11.2/7

Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: 0.001+/-0.006 $\chi^2$/NDF:21.6/18

Out: 0.012+/-0.006 $\chi^2$/NDF:28.2/23

All: 0.006+/-0.004 $\chi^2$/NDF: 51.3/42




Right In: 17.591+/-0.005 $\chi^2$/NDF: 993288.6/15

Left Out: 19.267+/-0.007 $\chi^2$/NDF:202275.3/4

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247904.7/18

Left In: 17.358+/-0.008 $\chi^2$/NDF:72357.5/2

Left: 18.353+/-0.005 $\chi^2$/NDF: 305795.8/7

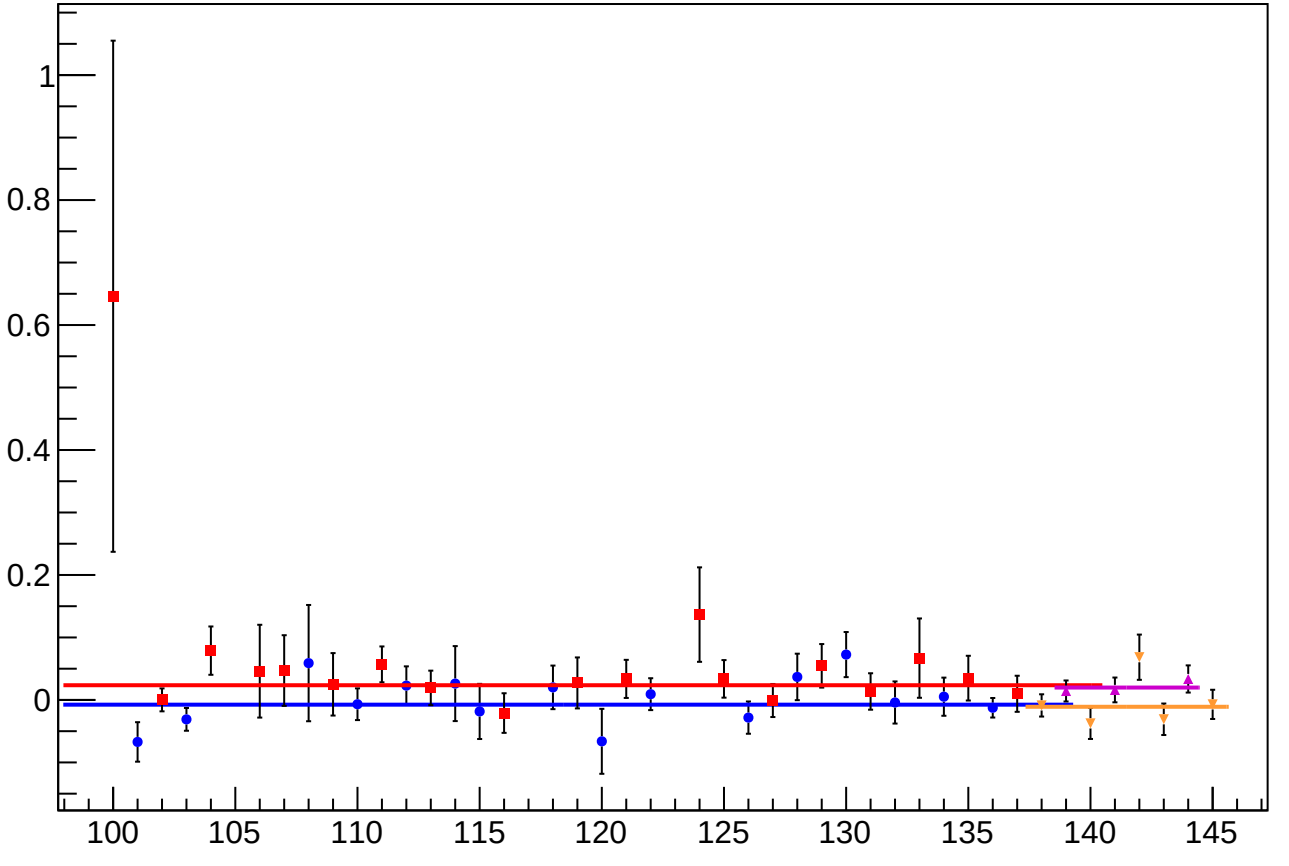
Right: 18.278+/-0.004 $\chi^2$/NDF: 2280425.3/34

In: 17.522+/-0.004 $\chi^2$/NDF:1066274.7/18

Out: 19.140+/-0.004 $\chi^2$/NDF:1450619.5/23

All: 18.302+/-0.003 $\chi^2$/NDF: 2586350.2/42

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+/-0.011 $\chi^2$/NDF:6.6/4

Right Out: 0.024+/-0.008 $\chi^2$/NDF: 14.6/18

Left In: 0.020+/-0.011 $\chi^2$/NDF:0.5/2

Left: 0.004+/-0.008 $\chi^2$/NDF: 11.2/7

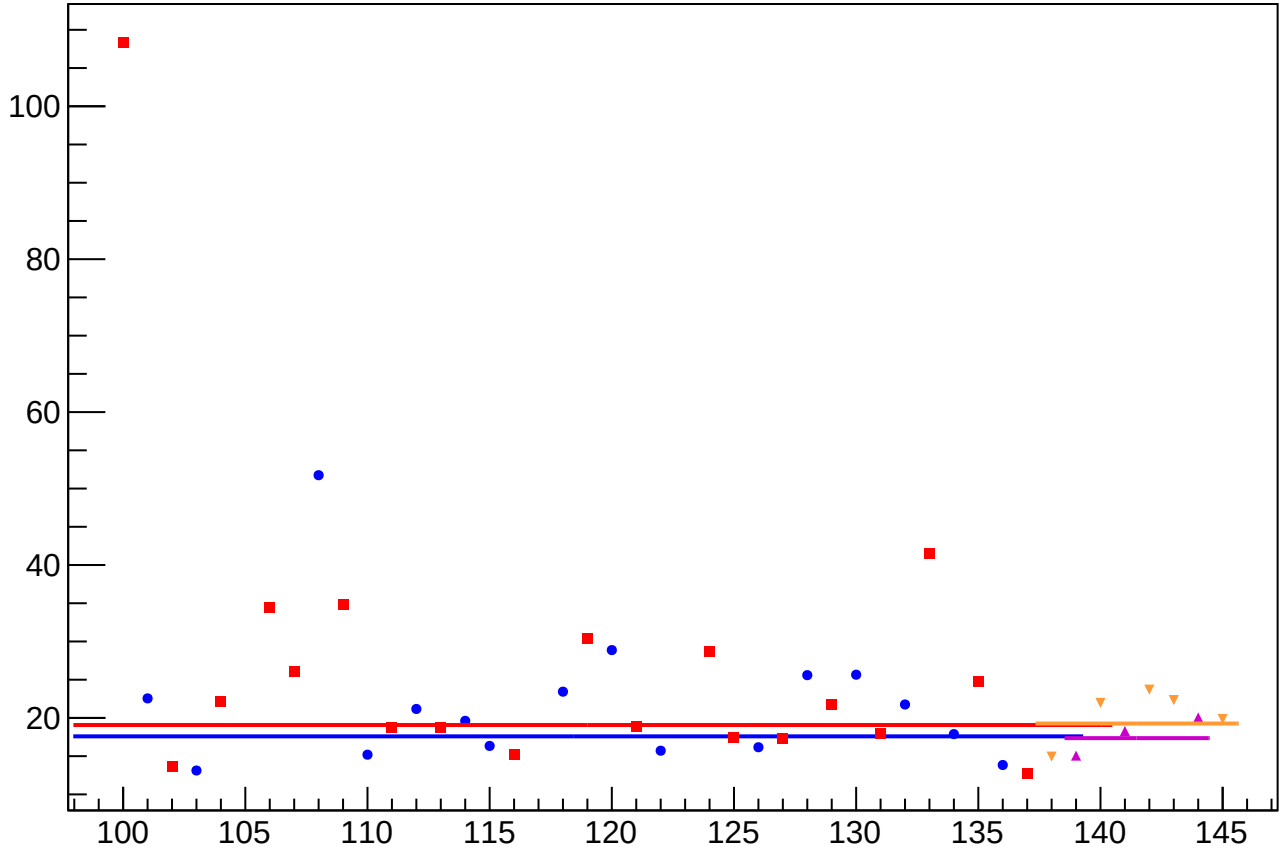
Right: 0.007+/-0.005 $\chi^2$/NDF: 40.0/34

In: 0.001+/-0.006 $\chi^2$/NDF:21.6/18

Out: 0.012+/-0.006 $\chi^2$/NDF:28.2/23

All: 0.006+/-0.004 $\chi^2$/NDF: 51.3/42

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: 19.267+/-0.007 $\chi^2$/NDF:202275.3/4

Right Out: 19.072+/-0.005 $\chi^2$/NDF: 1247904.7/18

Left In: 17.358+/-0.008 $\chi^2$/NDF:72357.5/2

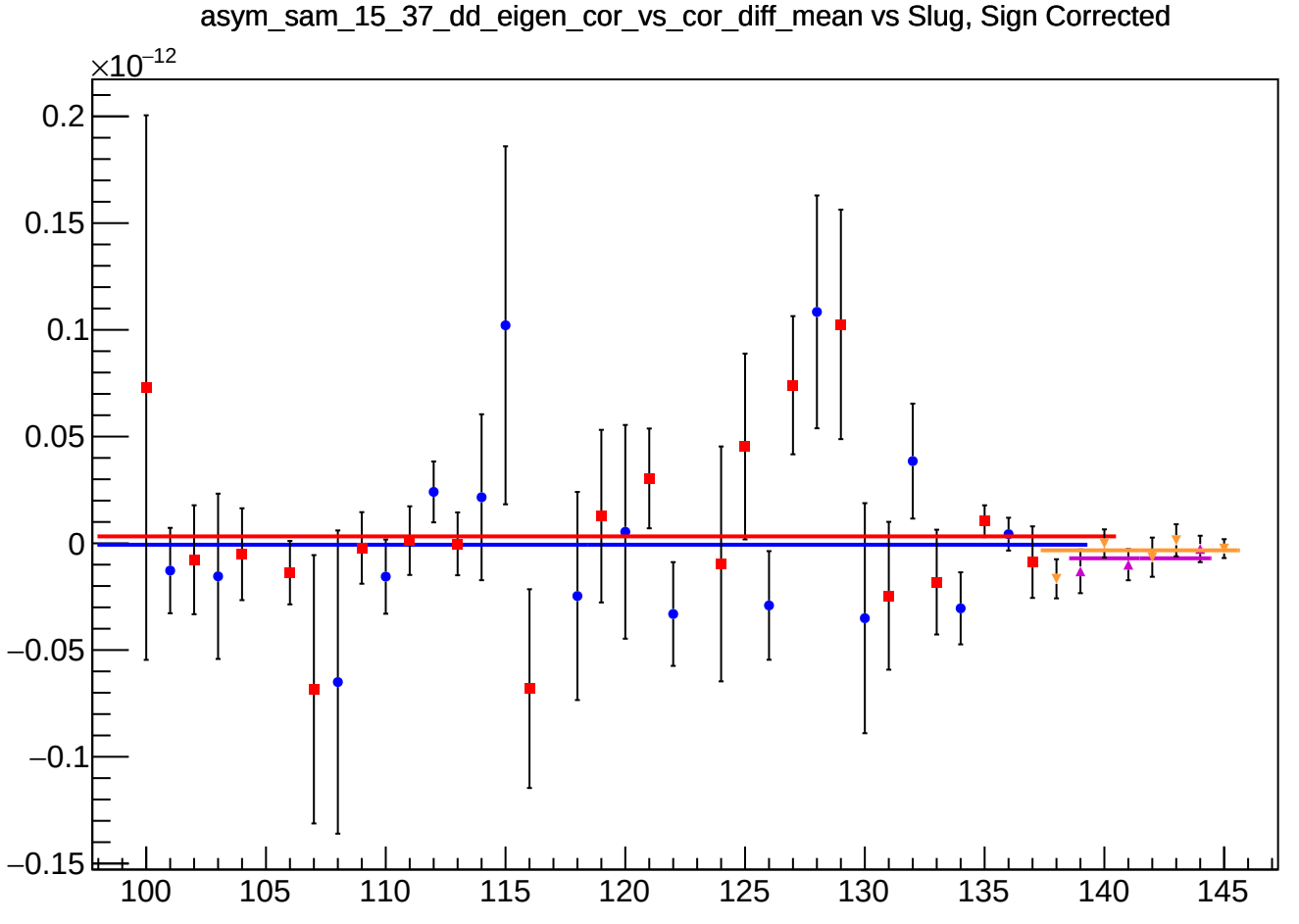
Left: 18.353+/-0.005 $\chi^2$/NDF: 305795.8/7

Right: 18.278+/-0.004 $\chi^2$/NDF: 2280425.3/34

In: 17.522+/-0.004 $\chi^2$/NDF:1066274.7/18

Out: 19.140+/-0.004 $\chi^2$/NDF:1450619.5/23

All: 18.302+/-0.003 $\chi^2$/NDF: 2586350.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.9/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.0/2

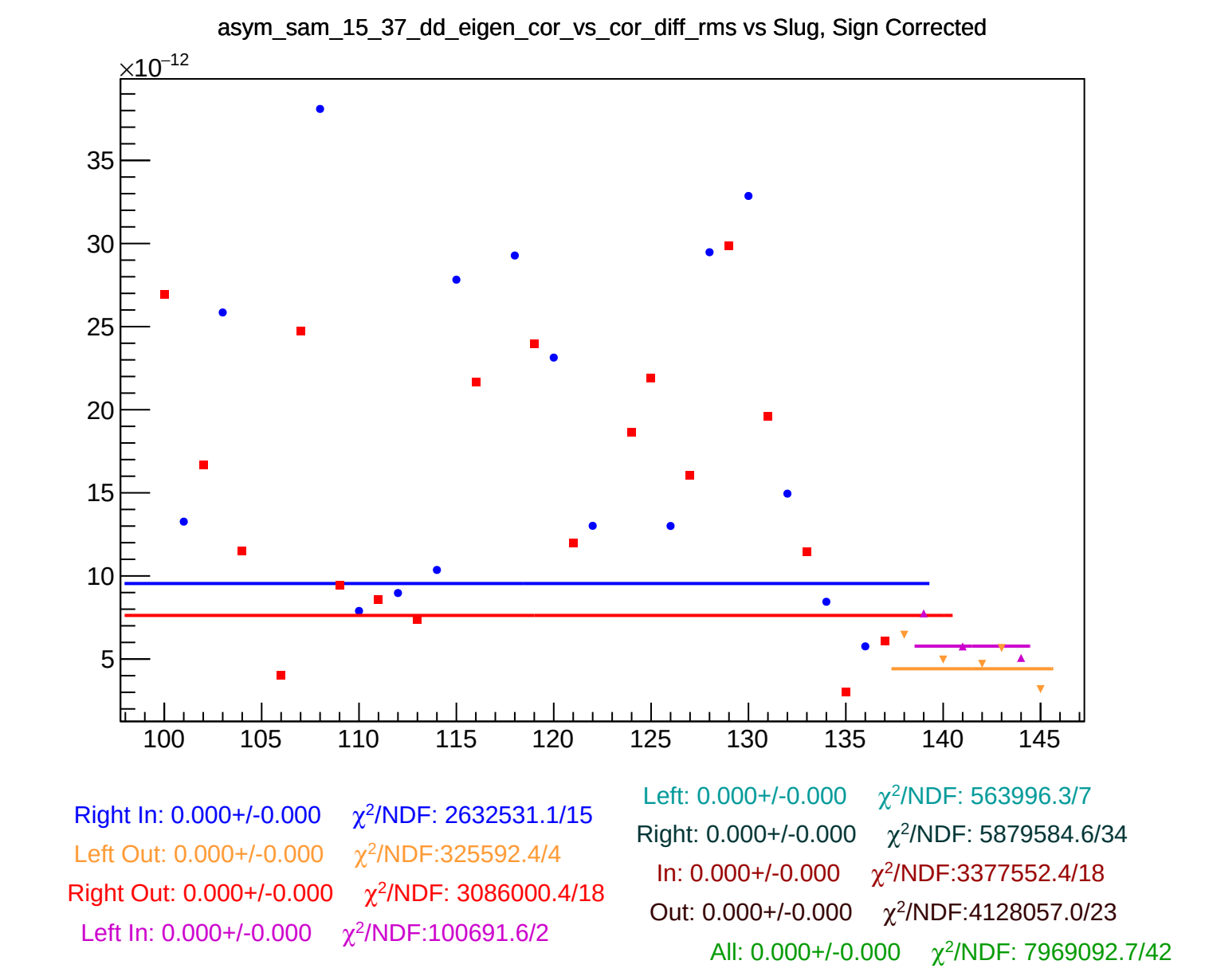
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.5/7

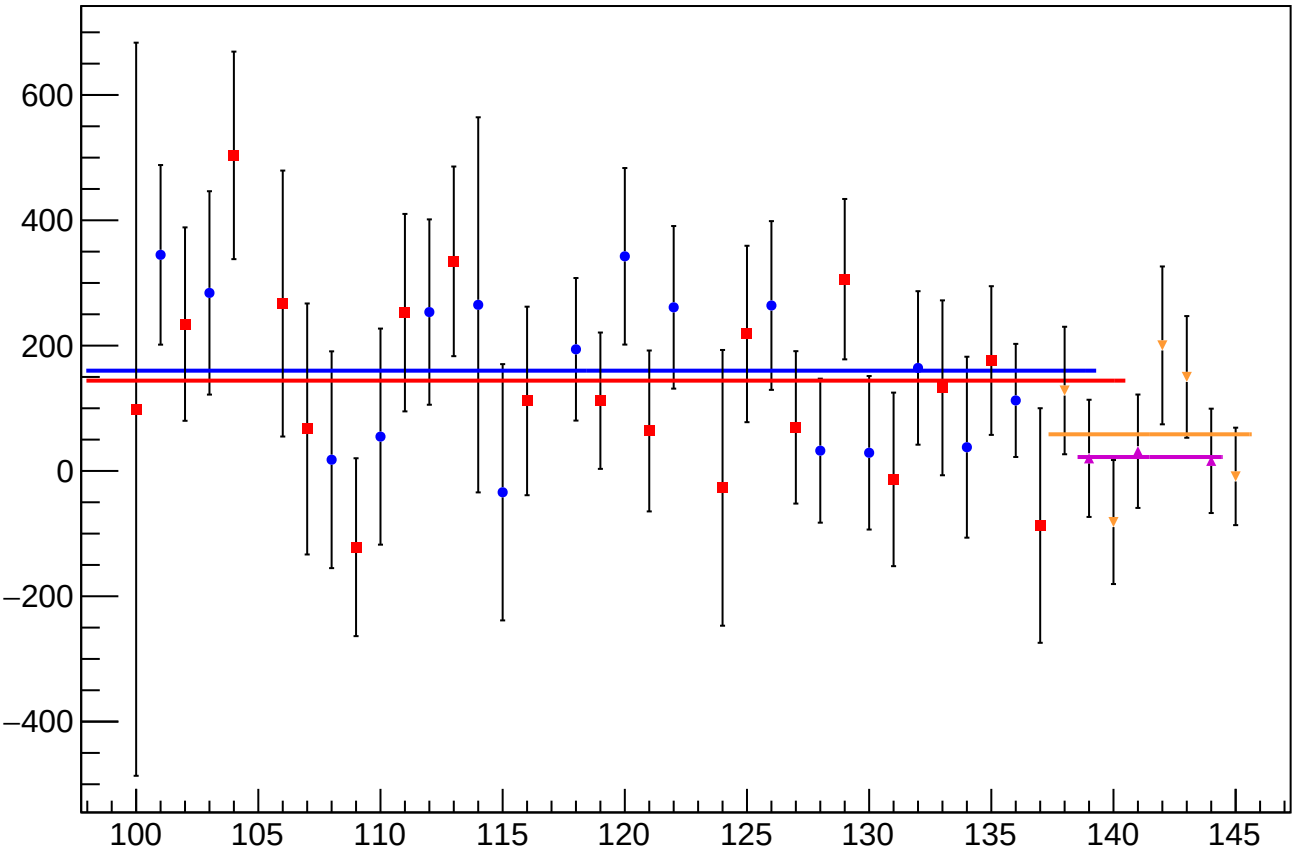
Right: 0.000+/-0.000 $\chi^2$/NDF: 39.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.2/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 46.3/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2632531.1/15
Left Out: 0.000+/-0.000 χ²/NDF:325592.4/4
Right Out: 0.000+/-0.000 χ²/NDF: 3086000.4/18
Left In: 0.000+/-0.000 χ²/NDF:100691.6/2
Left: 0.000+/-0.000 χ²/NDF: 563996.3/7
Right: 0.000+/-0.000 χ²/NDF: 5879584.6/34
In: 0.000+/-0.000 χ²/NDF:3377552.4/18
Out: 0.000+/-0.000 χ²/NDF:4128057.0/23
All: 0.000+/-0.000 χ²/NDF: 7969092.7/42




Right In: 160.024+/-34.170 $\chi^2$/NDF: 11.1/15

Left Out: 58.479+/-43.306 $\chi^2$/NDF:5.4/4

Right Out: 144.117+/-34.213 $\chi^2$/NDF: 17.4/18

Left In: 22.230+/-51.250 $\chi^2$/NDF:0.0/2

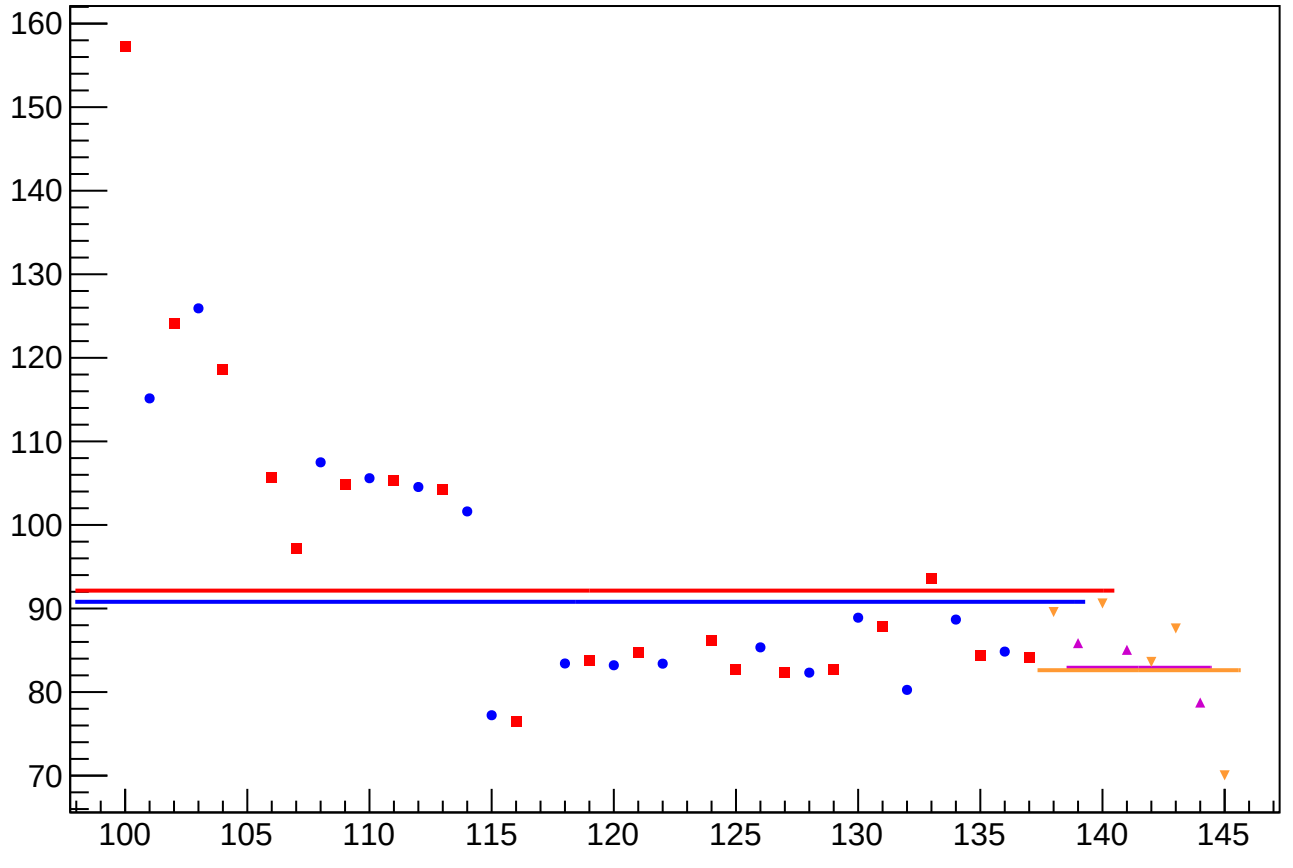
Left: 43.379+/-33.078 $\chi^2$/NDF: 5.7/7

Right: 152.081+/-24.177 $\chi^2$/NDF: 28.6/34

In: 117.621+/-28.430 $\chi^2$/NDF:16.1/18

Out: 111.206+/-26.846 $\chi^2$/NDF:25.2/23

All: 114.230+/-19.519 $\chi^2$/NDF: 41.3/42




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272755.2/15

Left Out: 82.617+/-0.031 $\chi^2$/NDF:80156.9/4

Right Out: 92.141+/-0.024 $\chi^2$/NDF: 302032.4/18

Left In: 82.908+/-0.036 $\chi^2$/NDF:8116.6/2

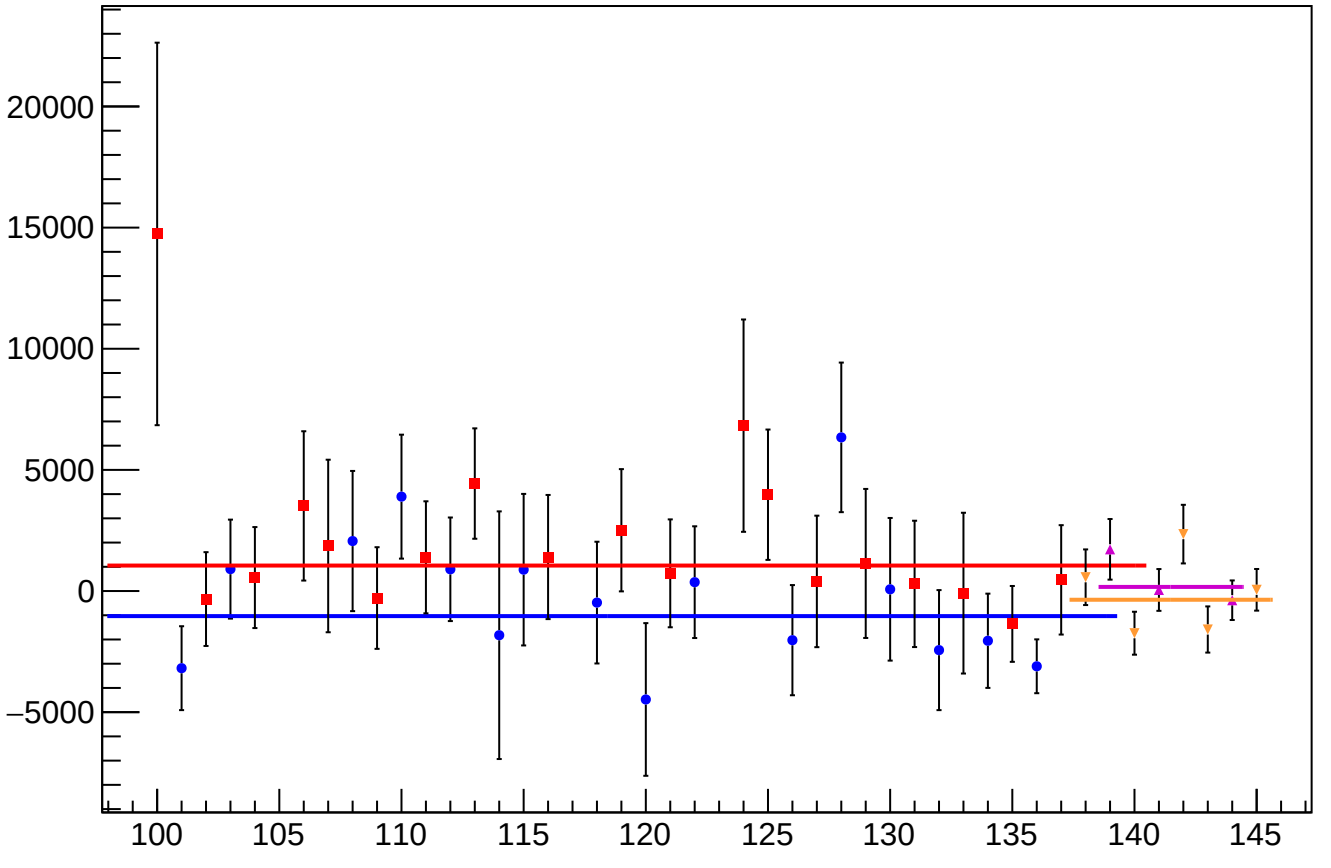
Left: 82.738+/-0.023 $\chi^2$/NDF: 88311.2/7

Right: 91.471+/-0.017 $\chi^2$/NDF: 576322.1/34

In: 88.373+/-0.020 $\chi^2$/NDF:313719.2/18

Out: 88.481+/-0.019 $\chi^2$/NDF:441755.9/23

All: 88.430+/-0.014 $\chi^2$/NDF: 755490.5/42




Right In: -1035.032+/-550.207 $\chi^2$/NDF: 20.2/15

Left Out: -359.914+/-439.768 $\chi^2$/NDF:10.0/4

Right Out: 1051.517+/-568.935 $\chi^2$/NDF: 12.9/18

Left In: 169.746+/-535.847 $\chi^2$/NDF:2.0/2

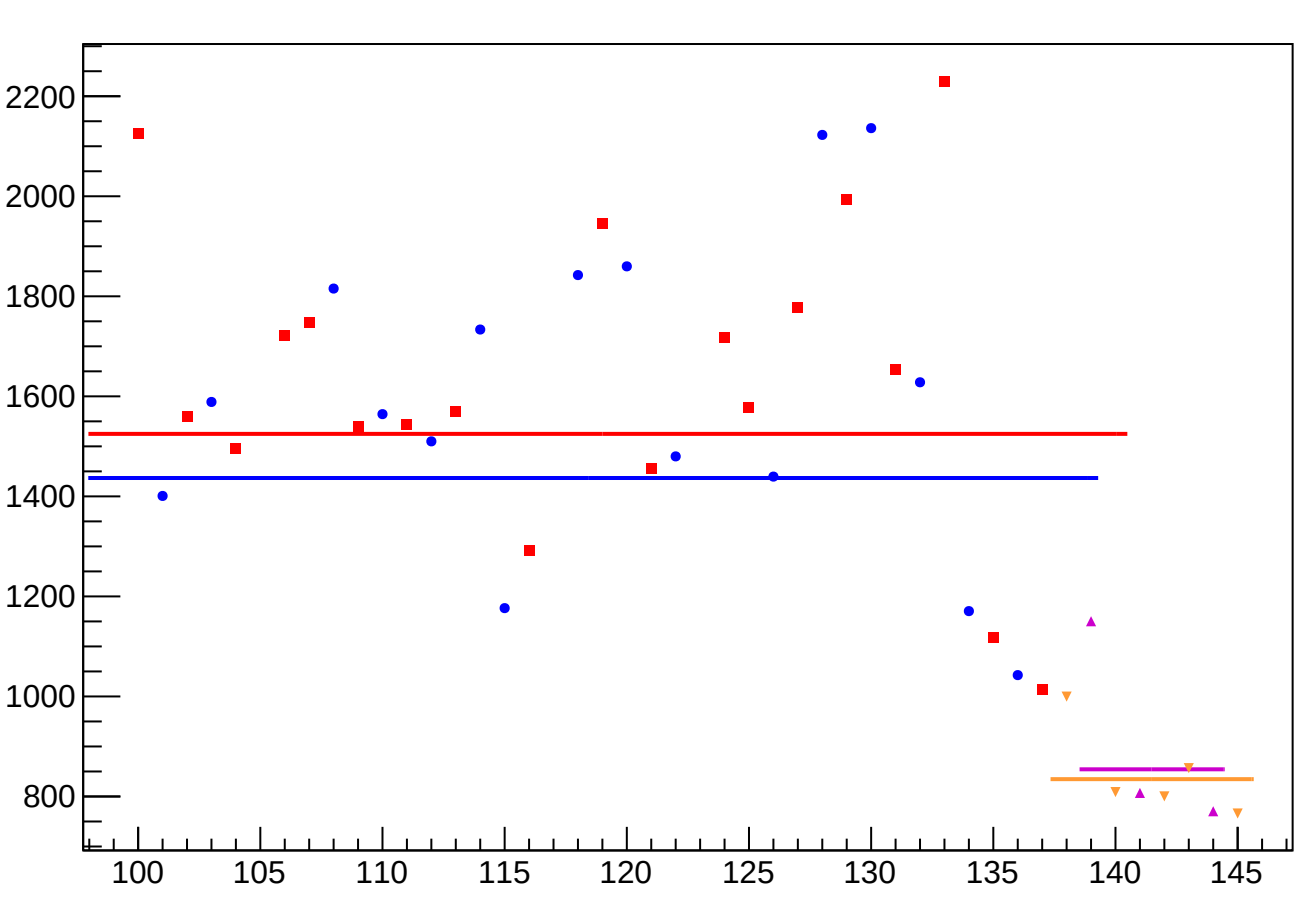
Left: -146.744+/-339.942 $\chi^2$/NDF: 12.6/7

Right: -26.665+/-395.510 $\chi^2$/NDF: 40.1/34

In: -416.717+/-383.877 $\chi^2$/NDF:24.7/18

Out: 167.981+/-347.942 $\chi^2$/NDF:26.7/23

All: -95.726+/-257.803 $\chi^2$/NDF: 52.7/42




Right In: 1436.734+/-0.389 $\chi^2$/NDF: 675672.3/15

Left Out: 834.655+/-0.311 $\chi^2$/NDF:58473.8/4

Right Out: 1524.955+/-0.402 $\chi^2$/NDF: 504563.9/18

Left In: 854.327+/-0.379 $\chi^2$/NDF:139067.2/2

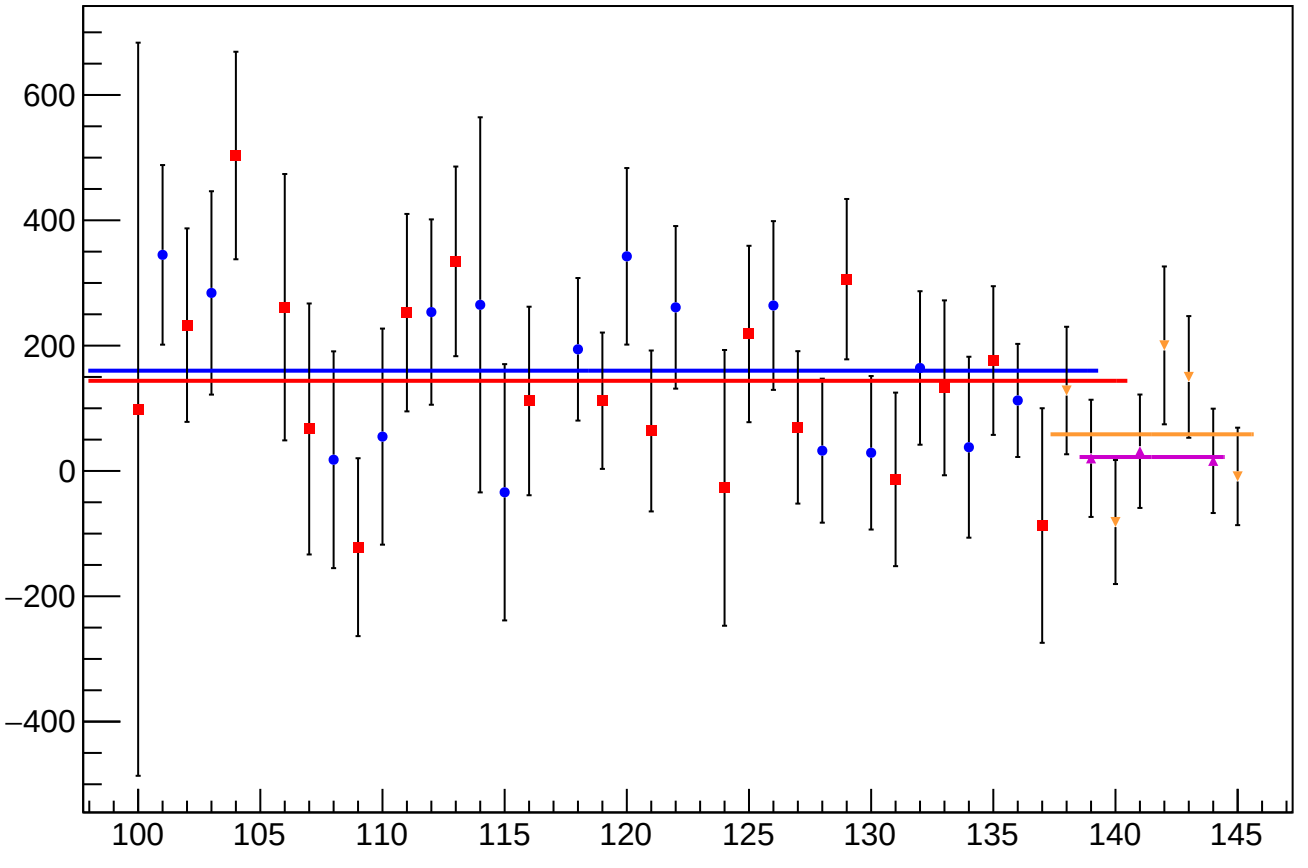
Left: 842.572+/-0.240 $\chi^2$/NDF: 199151.7/7

Right: 1479.369+/-0.280 $\chi^2$/NDF: 1205085.6/34

In: 1137.831+/-0.271 $\chi^2$/NDF:1964836.2/18

Out: 1092.837+/-0.246 $\chi^2$/NDF:2406126.7/23

All: 1113.130+/-0.182 $\chi^2$/NDF: 4386047.3/42




Right In: 160.020+/-34.170 $\chi^2$/NDF: 11.1/15

Left Out: 58.482+/-43.306 $\chi^2$/NDF:5.4/4

Right Out: 143.862+/-34.216 $\chi^2$/NDF: 17.3/18

Left In: 22.244+/-51.250 $\chi^2$/NDF:0.0/2

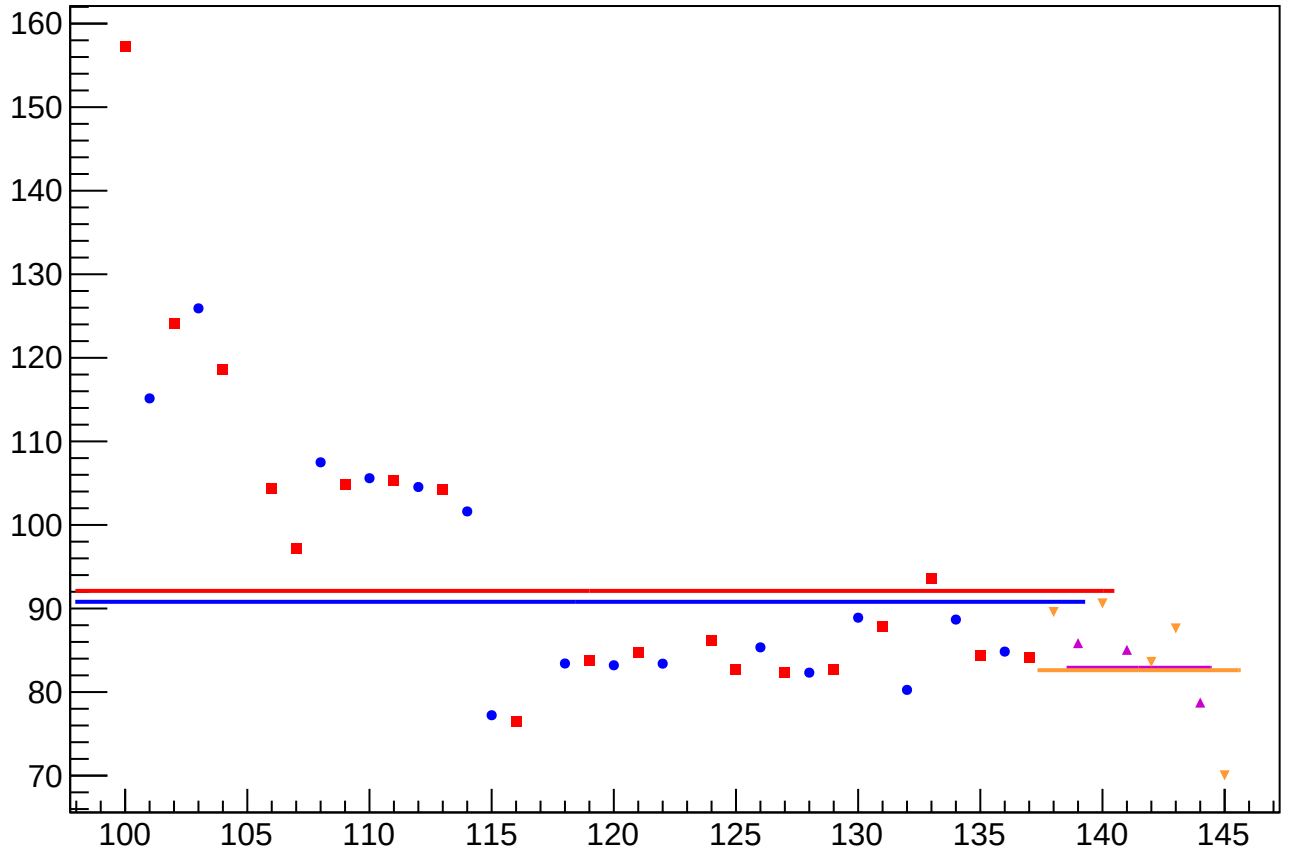
Left: 43.386+/-33.078 $\chi^2$/NDF: 5.7/7

Right: 151.952+/-24.178 $\chi^2$/NDF: 28.5/34

In: 117.622+/-28.430 $\chi^2$/NDF:16.1/18

Out: 111.048+/-26.847 $\chi^2$/NDF:25.1/23

All: 114.147+/-19.519 $\chi^2$/NDF: 41.2/42




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272757.0/15

Left Out: 82.617+/-0.031 $\chi^2$/NDF:80156.9/4

Right Out: 92.108+/-0.024 $\chi^2$/NDF: 300768.0/18

Left In: 82.908+/-0.036 $\chi^2$/NDF:8116.6/2

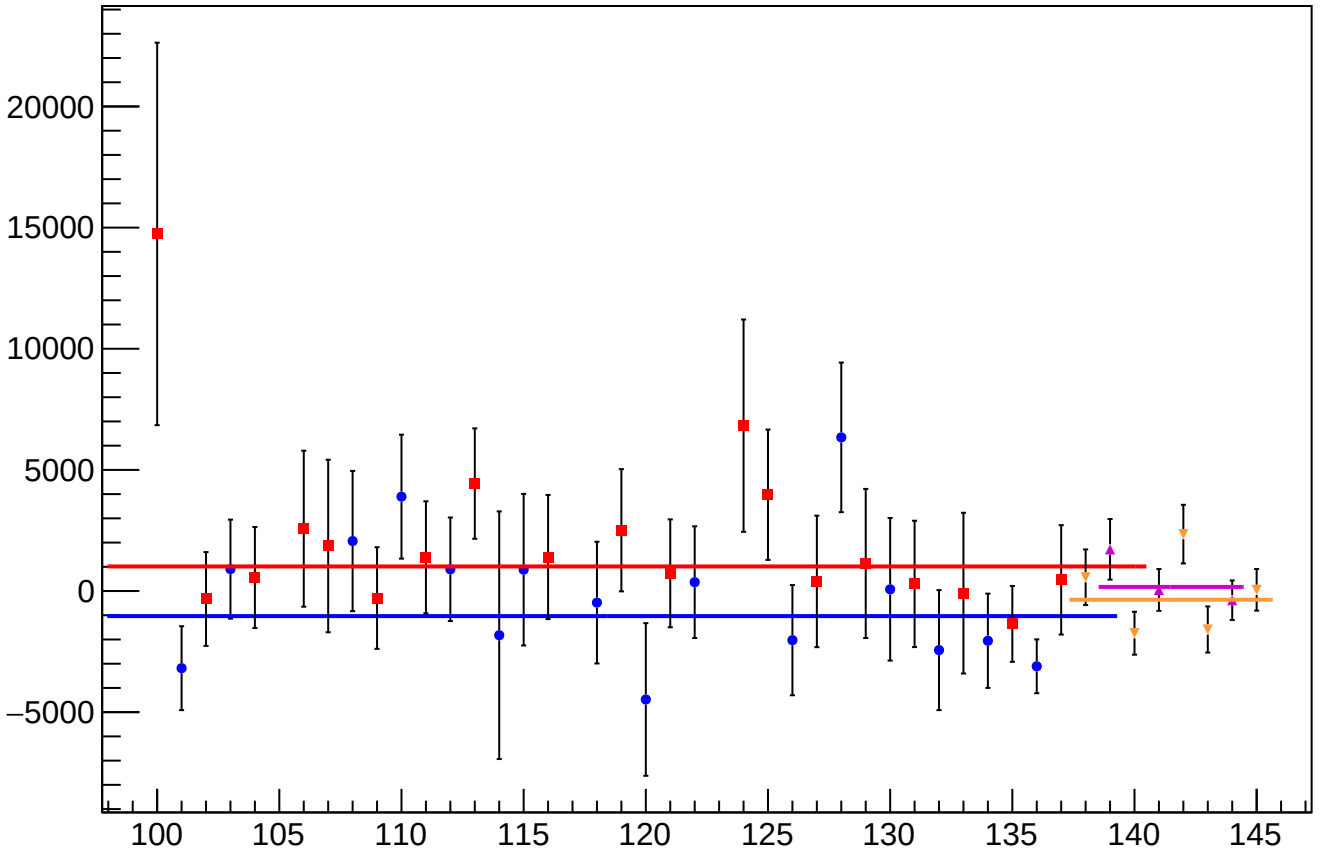
Left: 82.738+/-0.023 $\chi^2$/NDF: 88311.2/7

Right: 91.454+/-0.017 $\chi^2$/NDF: 574984.5/34

In: 88.373+/-0.020 $\chi^2$/NDF:313721.0/18

Out: 88.460+/-0.019 $\chi^2$/NDF:440075.7/23

All: 88.419+/-0.014 $\chi^2$/NDF: 753806.8/42




Right In: -1035.009+/-550.208 $\chi^2$/NDF: 20.2/15

Left Out: -359.905+/-439.768 $\chi^2$/NDF:10.0/4

Right Out: 1015.387+/-569.773 $\chi^2$/NDF: 12.5/18

Left In: 169.767+/-535.847 $\chi^2$/NDF:2.0/2

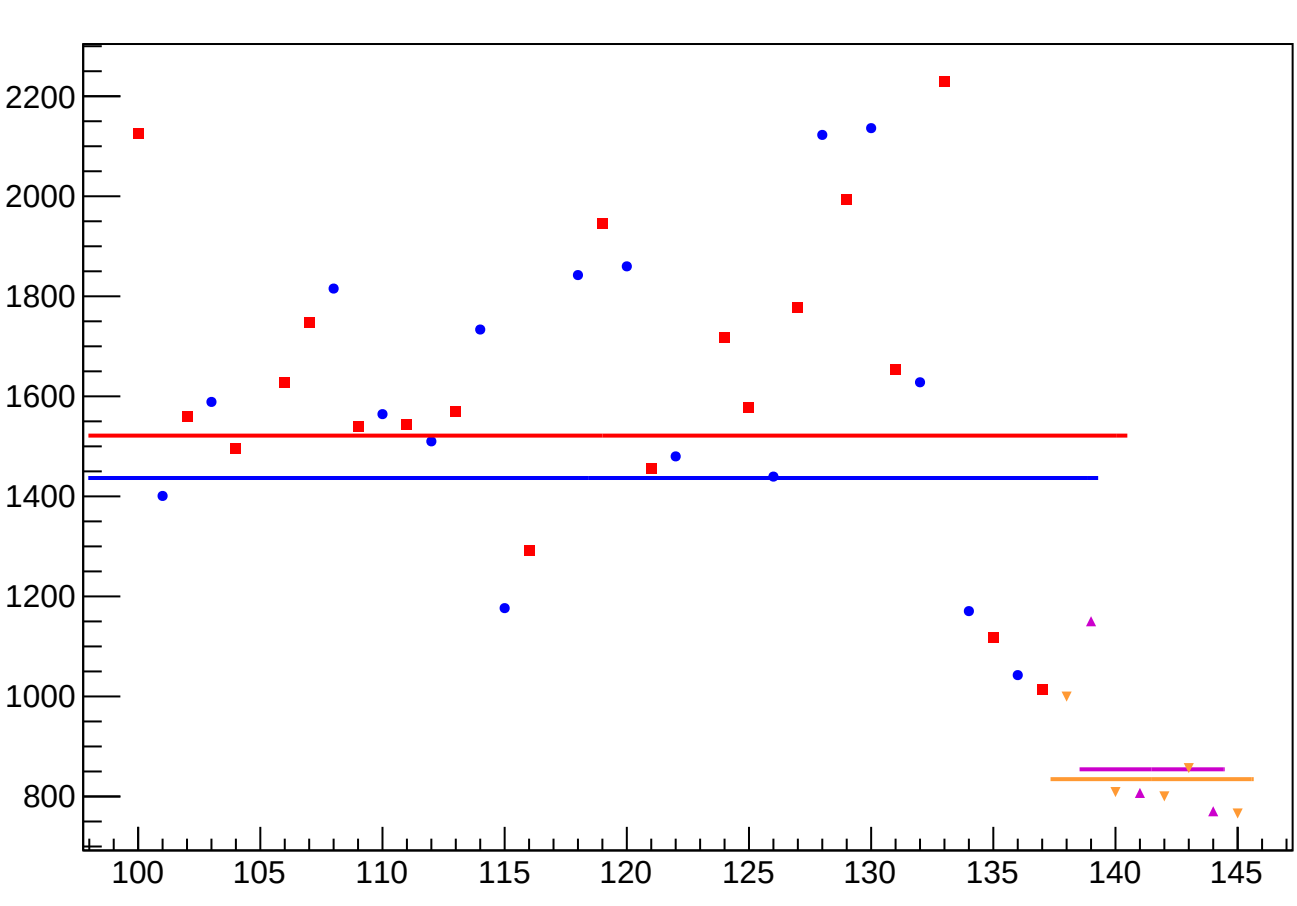
Left: -146.730+/-339.942 $\chi^2$/NDF: 12.6/7

Right: -45.617+/-395.792 $\chi^2$/NDF: 39.4/34

In: -416.692+/-383.878 $\chi^2$/NDF:24.7/18

Out: 153.525+/-348.133 $\chi^2$/NDF:26.1/23

All: -103.805+/-257.880 $\chi^2$/NDF: 52.0/42




Right In: 1436.738+/-0.389 $\chi^2$/NDF: 675680.8/15

Left Out: 834.654+/-0.311 $\chi^2$/NDF:58474.1/4

Right Out: 1521.496+/-0.403 $\chi^2$/NDF: 498363.4/18

Left In: 854.327+/-0.379 $\chi^2$/NDF:139067.1/2

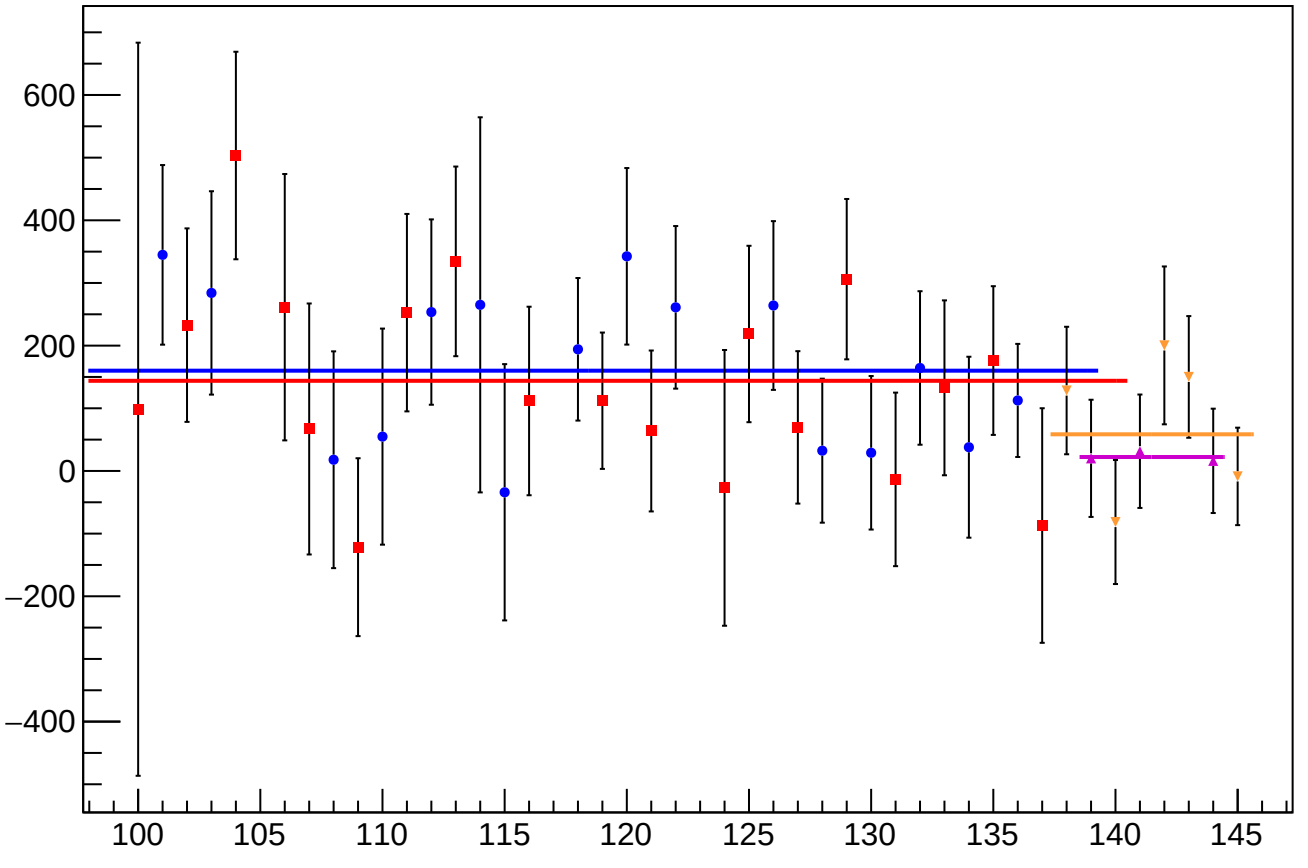
Left: 842.572+/-0.240 $\chi^2$/NDF: 199152.0/7

Right: 1477.637+/-0.280 $\chi^2$/NDF: 1196946.2/34

In: 1137.832+/-0.271 $\chi^2$/NDF:1964855.5/18

Out: 1091.069+/-0.246 $\chi^2$/NDF:2378142.6/23

All: 1112.173+/-0.182 $\chi^2$/NDF: 4359283.3/42




Right In: 160.020+/-34.170 $\chi^2$/NDF: 11.1/15

Left Out: 58.482+/-43.306 $\chi^2$/NDF:5.4/4

Right Out: 143.862+/-34.216 $\chi^2$/NDF: 17.3/18

Left In: 22.244+/-51.250 $\chi^2$/NDF:0.0/2

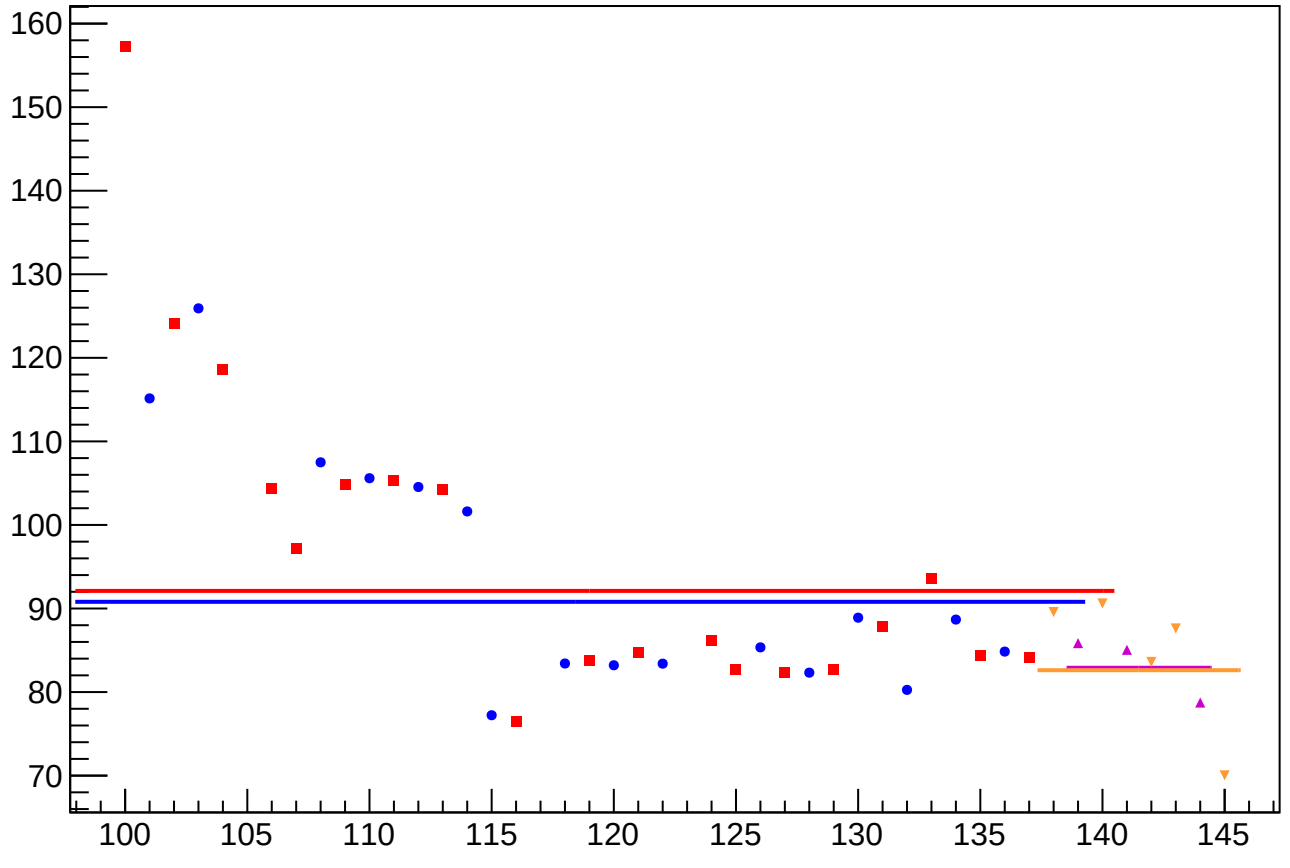
Left: 43.386+/-33.078 $\chi^2$/NDF: 5.7/7

Right: 151.952+/-24.178 $\chi^2$/NDF: 28.5/34

In: 117.622+/-28.430 $\chi^2$/NDF:16.1/18

Out: 111.048+/-26.847 $\chi^2$/NDF:25.1/23

All: 114.147+/-19.519 $\chi^2$/NDF: 41.2/42




Right In: 90.802+/-0.024 $\chi^2$/NDF: 272757.0/15

Left Out: 82.617+/-0.031 $\chi^2$/NDF:80156.9/4

Right Out: 92.108+/-0.024 $\chi^2$/NDF: 300768.0/18

Left In: 82.908+/-0.036 $\chi^2$/NDF:8116.6/2

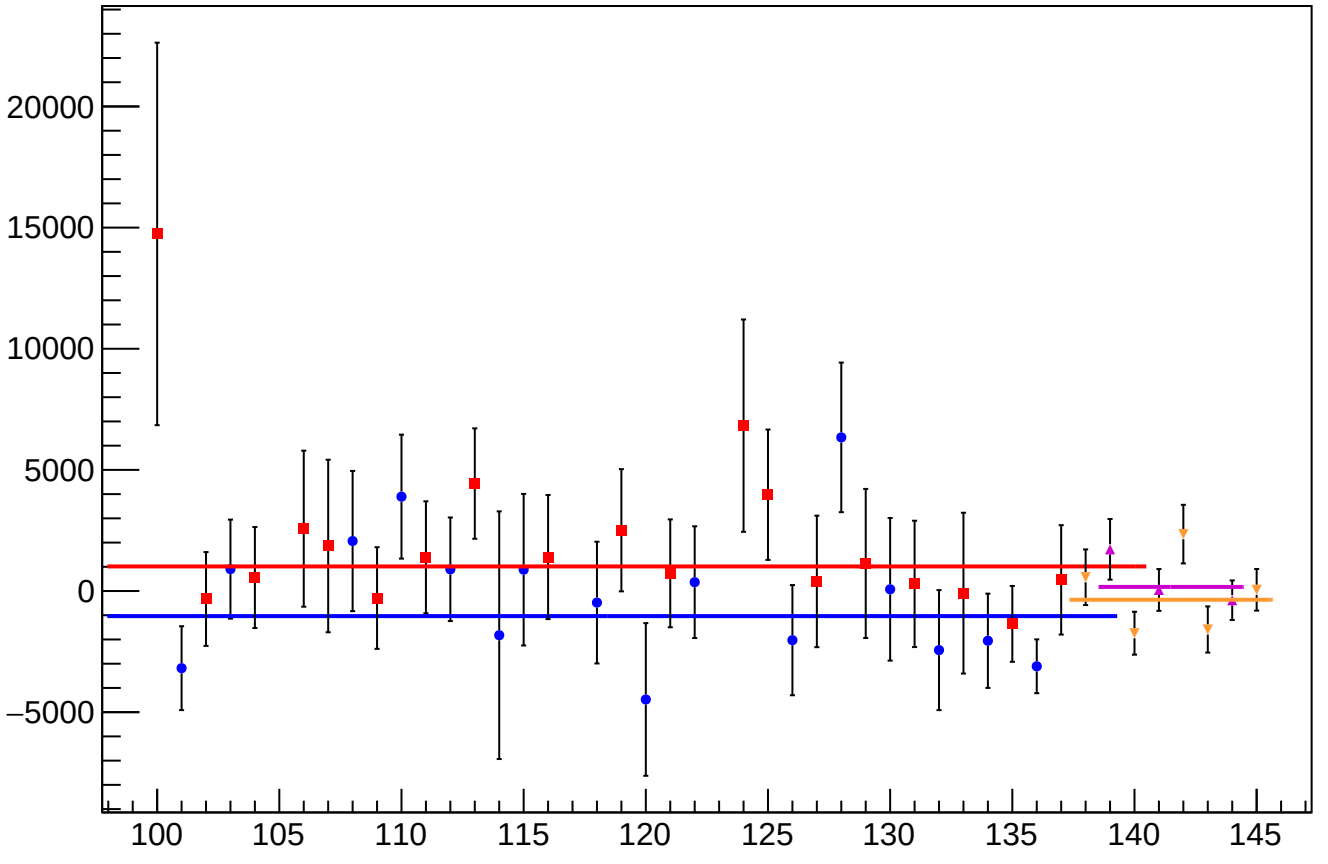
Left: 82.738+/-0.023 $\chi^2$/NDF: 88311.2/7

Right: 91.454+/-0.017 $\chi^2$/NDF: 574984.5/34

In: 88.373+/-0.020 $\chi^2$/NDF:313721.0/18

Out: 88.460+/-0.019 $\chi^2$/NDF:440075.7/23

All: 88.419+/-0.014 $\chi^2$/NDF: 753806.8/42




Right In: -1035.009+/-550.208 $\chi^2$/NDF: 20.2/15

Left Out: -359.905+/-439.768 $\chi^2$/NDF:10.0/4

Right Out: 1015.387+/-569.773 $\chi^2$/NDF: 12.5/18

Left In: 169.767+/-535.847 $\chi^2$/NDF:2.0/2

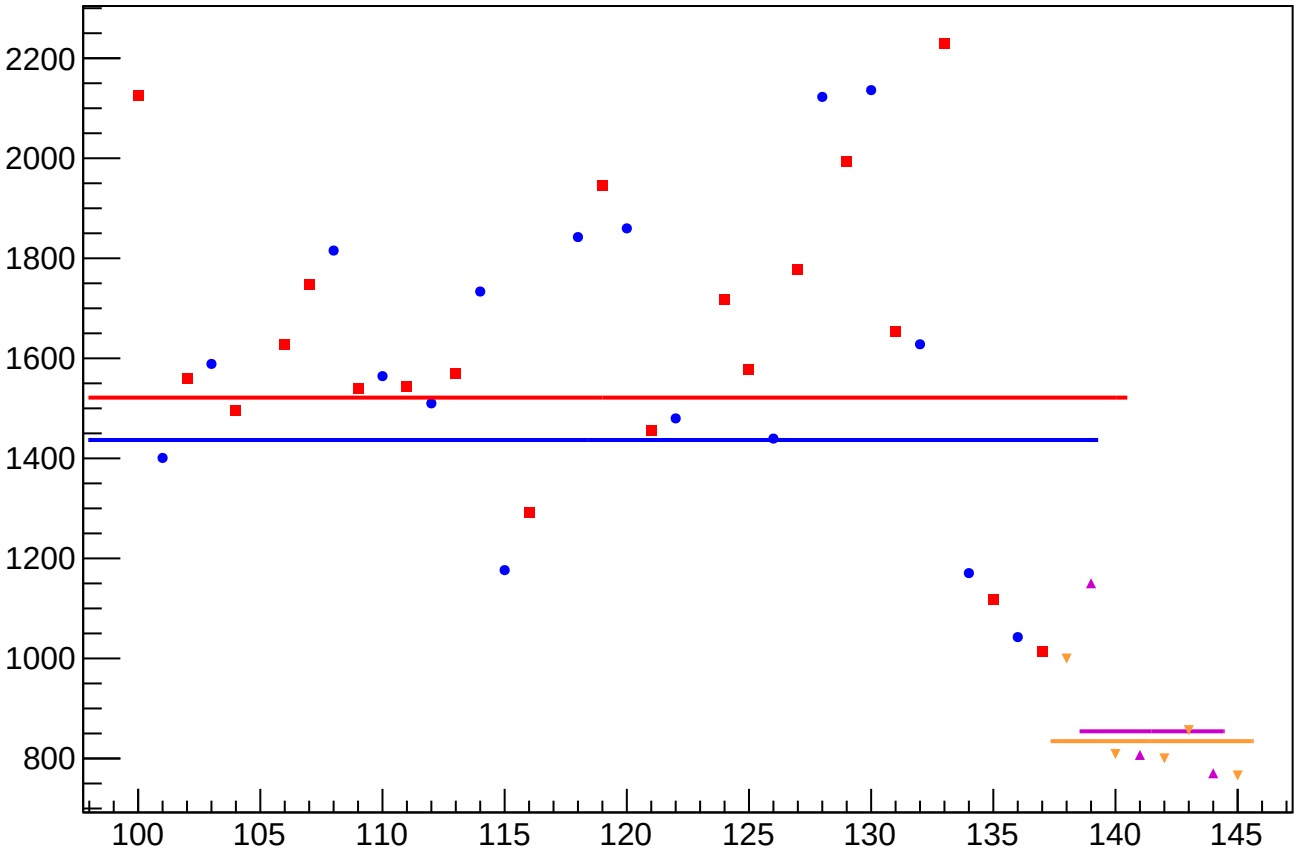
Left: -146.730+/-339.942 $\chi^2$/NDF: 12.6/7

Right: -45.617+/-395.792 $\chi^2$/NDF: 39.4/34

In: -416.692+/-383.878 $\chi^2$/NDF:24.7/18

Out: 153.525+/-348.133 $\chi^2$/NDF:26.1/23

All: -103.805+/-257.880 $\chi^2$/NDF: 52.0/42




Right In: 1436.738+/-0.389 $\chi^2$/NDF: 675680.8/15

Left Out: 834.654+/-0.311 $\chi^2$/NDF:58474.1/4

Right Out: 1521.496+/-0.403 $\chi^2$/NDF: 498363.4/18

Left In: 854.327+/-0.379 $\chi^2$/NDF:139067.1/2

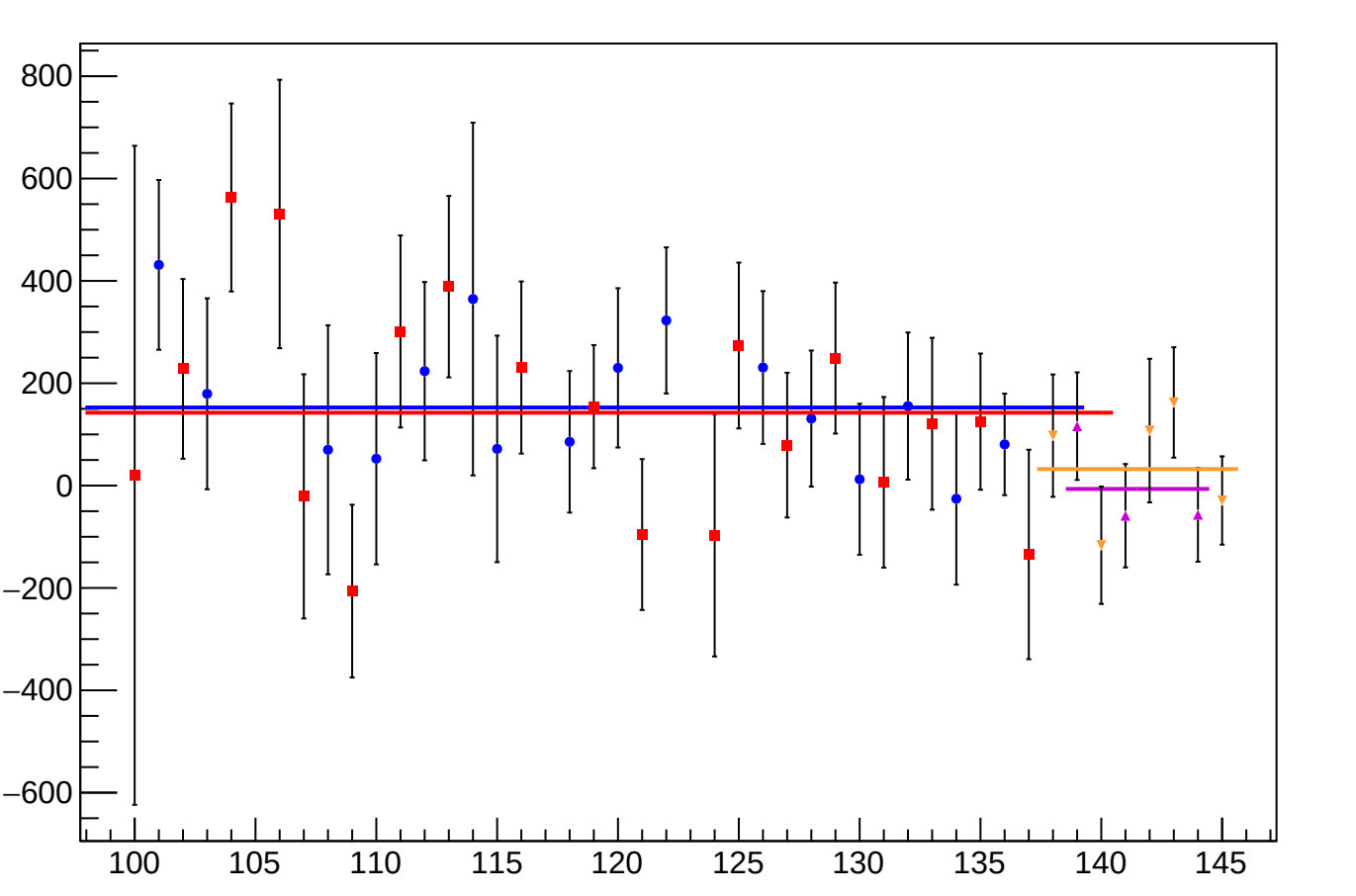
Left: 842.572+/-0.240 $\chi^2$/NDF: 199152.0/7

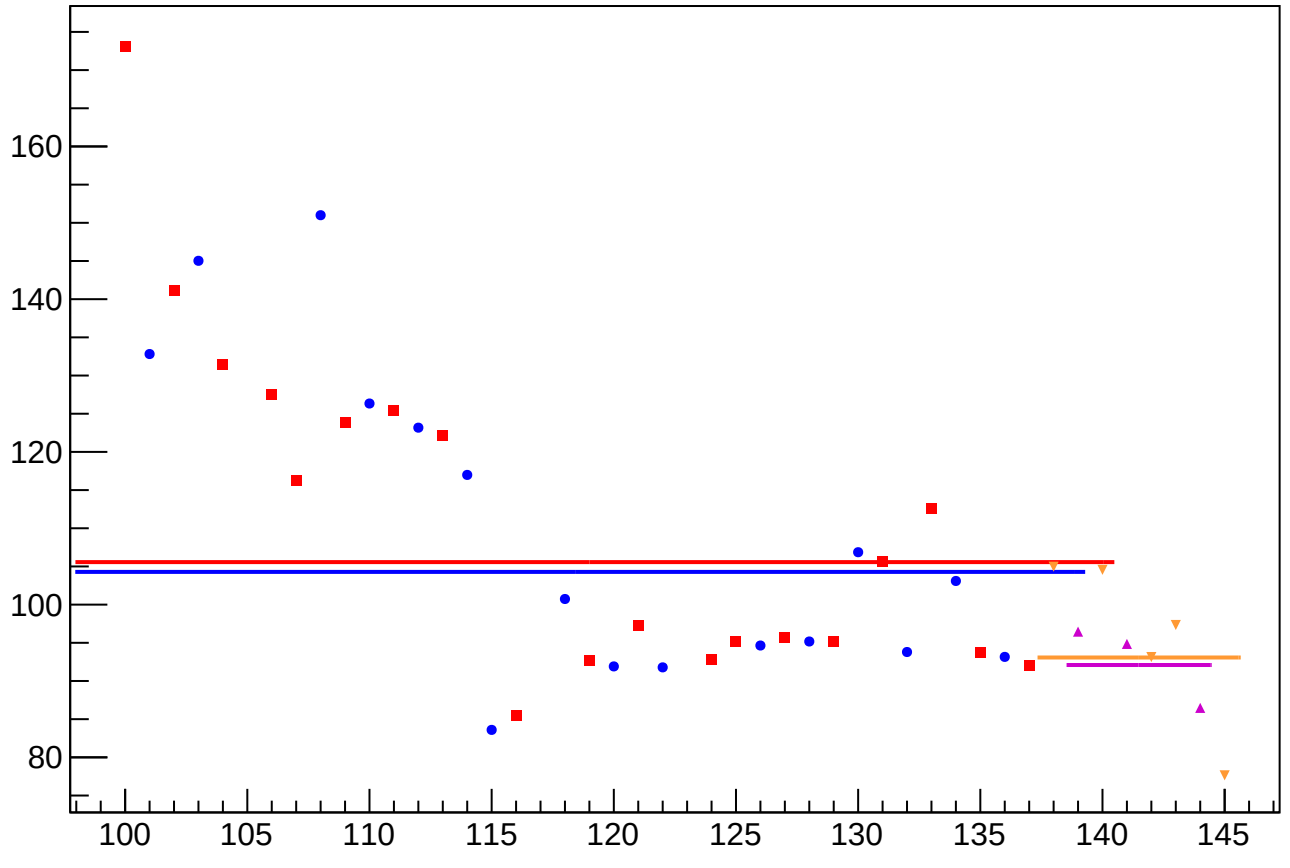
Right: 1477.637+/-0.280 $\chi^2$/NDF: 1196946.2/34

In: 1137.832+/-0.271 $\chi^2$/NDF:1964855.5/18

Out: 1091.069+/-0.246 $\chi^2$/NDF:2378142.6/23

All: 1112.173+/-0.182 $\chi^2$/NDF: 4359283.3/42


dit_asym_sam_24_68_dd_mean vs Slug, Sign Corrected
800
600
400
200
0
−200
−400
−600
100
105
110
115
120
125
130
135
140
145
Right In: 152.626+/-39.446 χ²/NDF: 8.6/15
Left Out: 32.342+/-48.964 χ²/NDF:4.2/4
Right Out: 142.496+/-39.340 χ²/NDF: 22.9/18
Left In: -6.533+/-57.054 χ²/NDF:1.9/2
Left: 15.854+/-37.157 χ²/NDF: 6.4/7
Right: 147.548+/-27.855 χ²/NDF: 31.6/34
In: 101.152+/-32.446 χ²/NDF:15.8/18
Out: 99.283+/-30.668 χ²/NDF:30.2/23
All: 100.164+/-22.288 χ²/NDF: 46.1/42




Right In: 104.286+/-0.028 $\chi^2$/NDF: 378310.9/15

Left Out: 93.076+/-0.035 $\chi^2$/NDF:106941.6/4

Right Out: 105.568+/-0.028 $\chi^2$/NDF: 344605.9/18

Left In: 92.093+/-0.040 $\chi^2$/NDF:12435.8/2

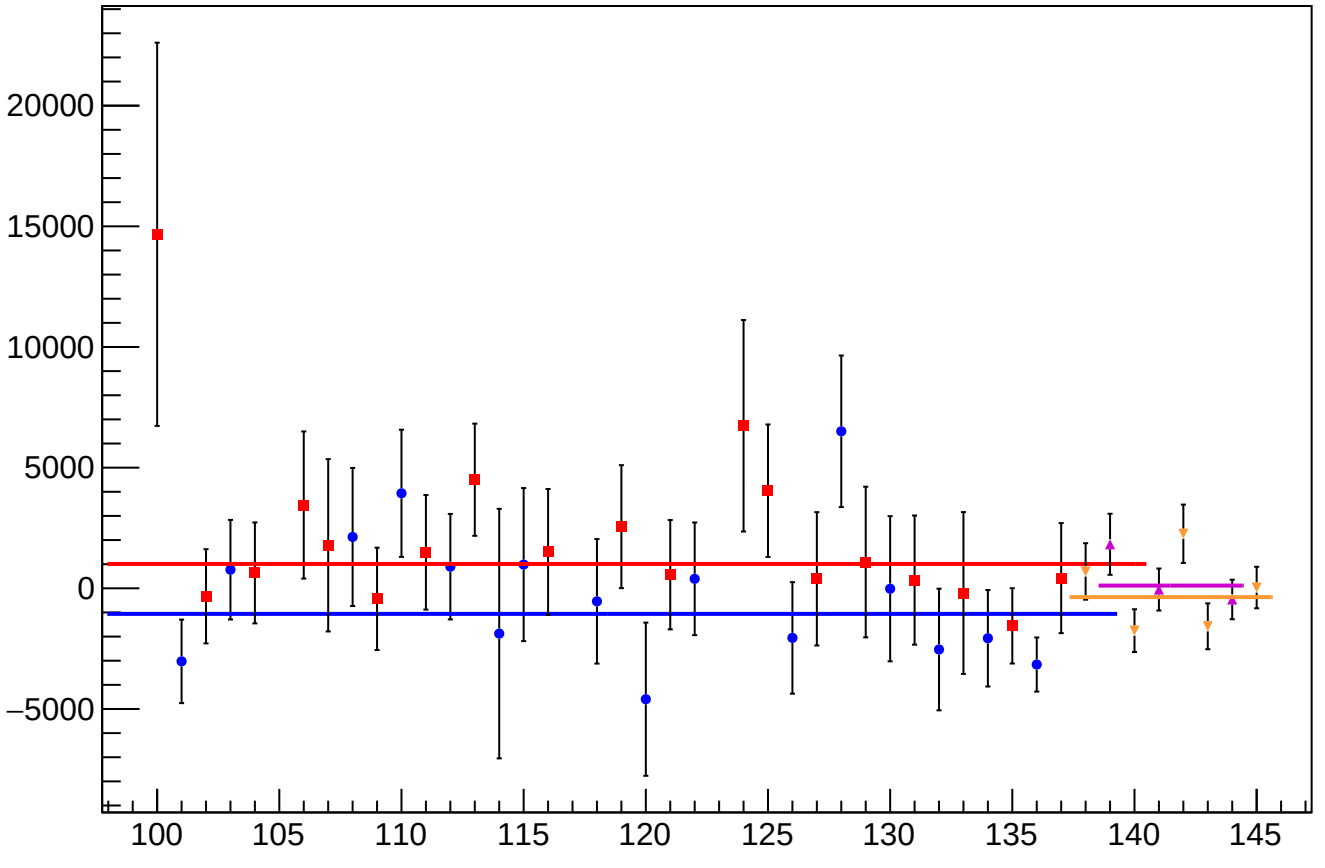
Left: 92.659+/-0.026 $\chi^2$/NDF: 119719.5/7

Right: 104.929+/-0.020 $\chi^2$/NDF: 723975.9/34

In: 100.343+/-0.023 $\chi^2$/NDF:452551.0/18

Out: 100.668+/-0.022 $\chi^2$/NDF:530656.9/23

All: 100.514+/-0.016 $\chi^2$/NDF: 983313.9/42




Right In: -1059.357+/-557.645 $\chi^2$/NDF: 20.0/15

Left Out: -364.013+/-440.838 $\chi^2$/NDF:9.8/4

Right Out: 1009.907+/-575.100 $\chi^2$/NDF: 13.3/18

Left In: 112.858+/-539.750 $\chi^2$/NDF:2.4/2

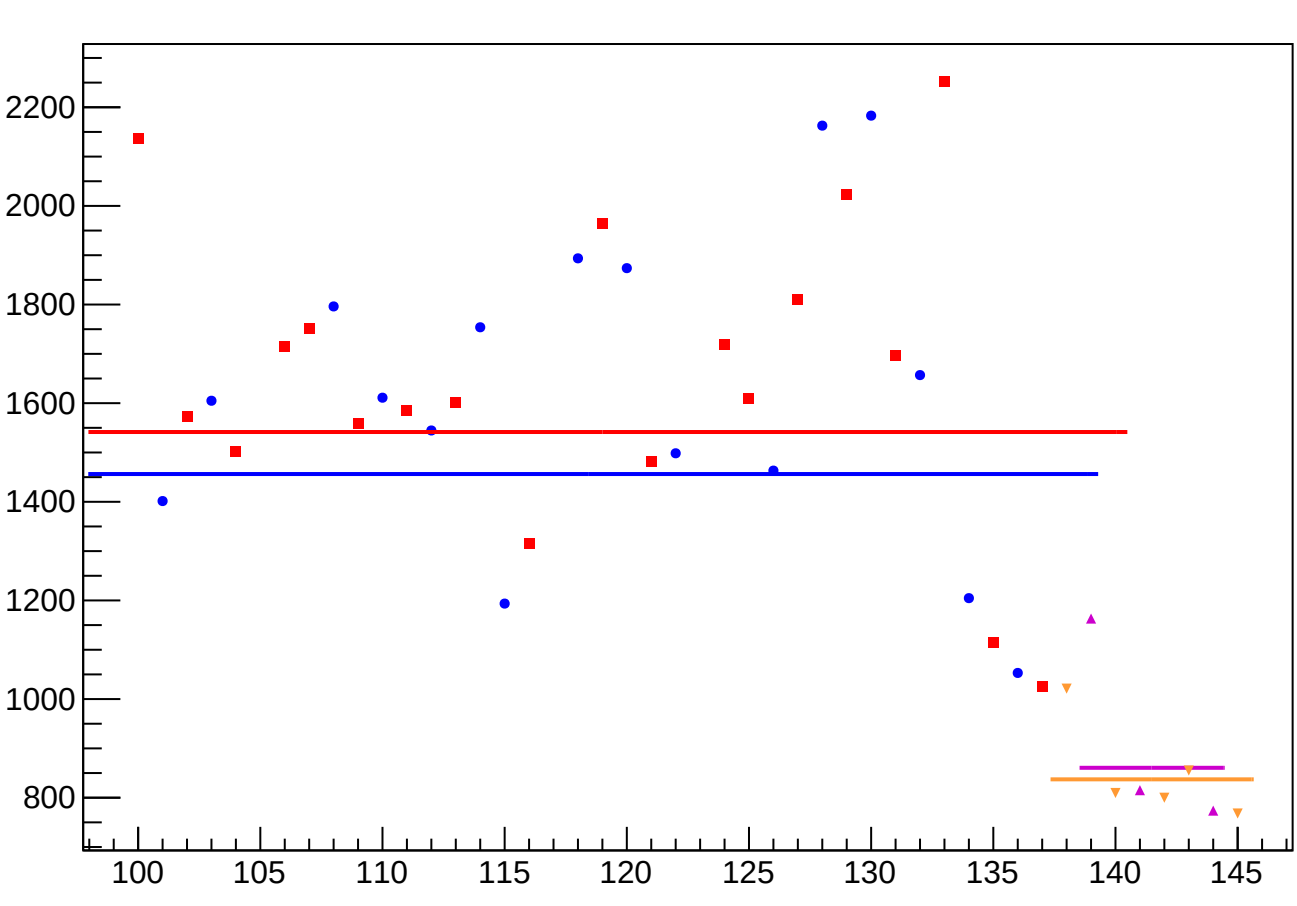
Left: -173.195+/-341.430 $\chi^2$/NDF: 12.7/7

Right: -56.604+/-400.343 $\chi^2$/NDF: 40.0/34

In: -454.140+/-387.833 $\chi^2$/NDF:24.7/18

Out: 144.492+/-349.873 $\chi^2$/NDF:26.7/23

All: -124.101+/-259.784 $\chi^2$/NDF: 52.7/42




Right In: 1456.303+/-0.394 $\chi^2$/NDF: 684806.5/15

Left Out: 837.208+/-0.312 $\chi^2$/NDF:66949.2/4

Right Out: 1541.522+/-0.407 $\chi^2$/NDF: 519336.6/18

Left In: 860.629+/-0.382 $\chi^2$/NDF:142346.9/2

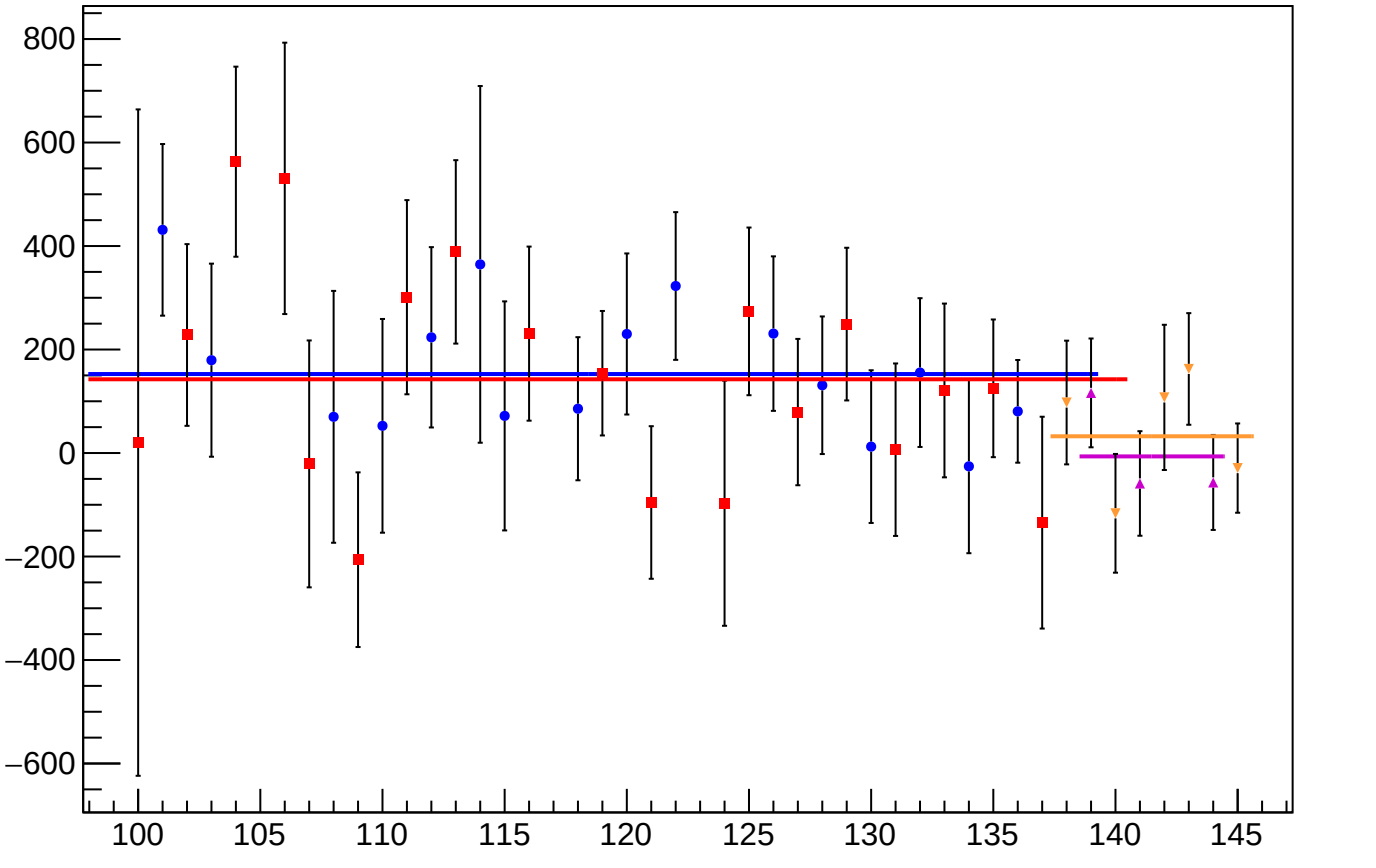
Left: 846.580+/-0.241 $\chi^2$/NDF: 211555.1/7

Right: 1497.600+/-0.283 $\chi^2$/NDF: 1226777.5/34

In: 1148.756+/-0.274 $\chi^2$/NDF:2005398.2/18

Out: 1097.884+/-0.247 $\chi^2$/NDF:2475752.4/23

All: 1120.709+/-0.184 $\chi^2$/NDF: 4500122.0/42




Right In: 152.628+/-39.446 $\chi^2$/NDF: 8.6/15

Left Out: 32.338+/-48.964 $\chi^2$/NDF:4.2/4

Right Out: 142.494+/-39.340 $\chi^2$/NDF: 22.9/18

Left In: -6.532+/-57.054 $\chi^2$/NDF:1.9/2

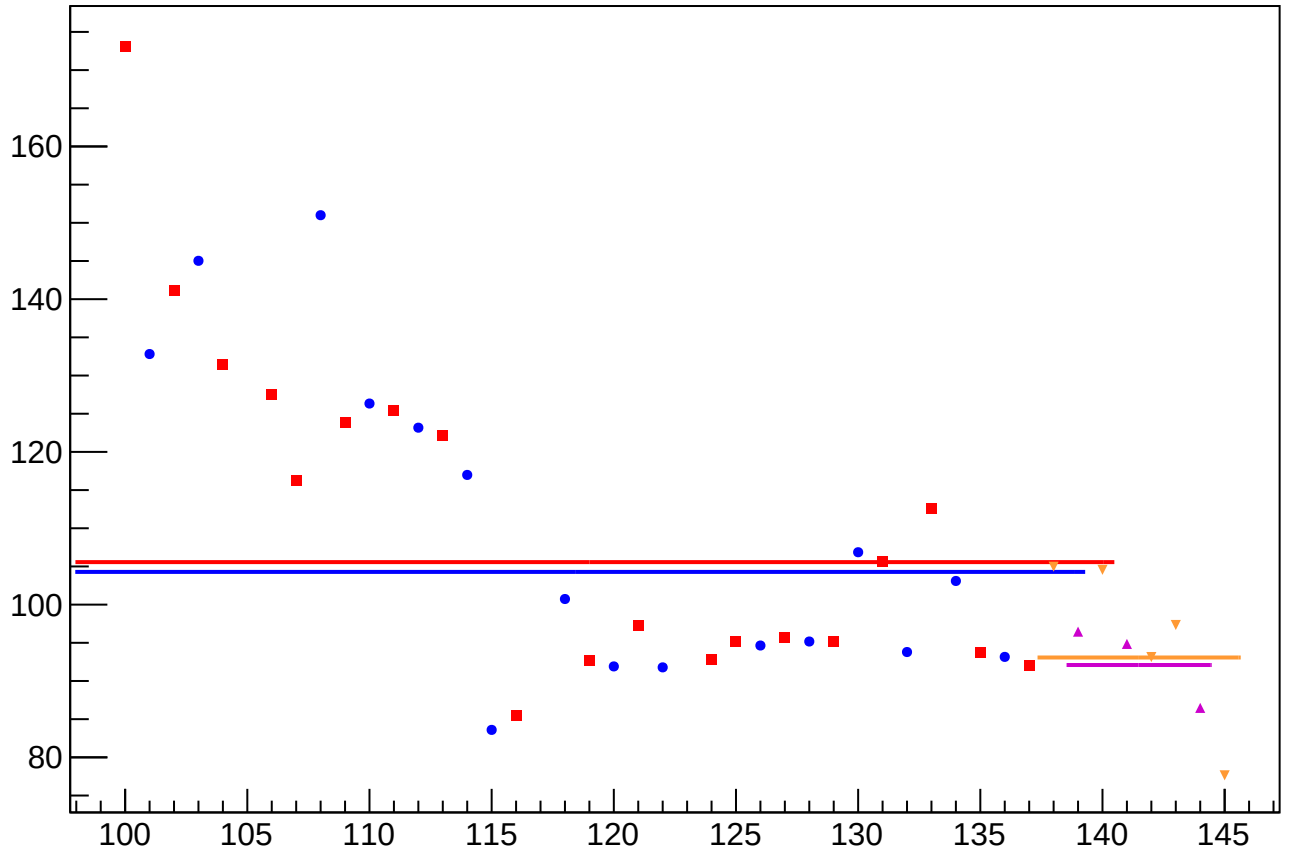
Left: 15.852+/-37.157 $\chi^2$/NDF: 6.4/7

Right: 147.548+/-27.855 $\chi^2$/NDF: 31.6/34

In: 101.154+/-32.446 $\chi^2$/NDF:15.8/18

Out: 99.280+/-30.668 $\chi^2$/NDF:30.2/23

All: 100.164+/-22.288 $\chi^2$/NDF: 46.1/42




Right In: 104.285+/-0.028 $\chi^2$/NDF: 378313.2/15

Left Out: 93.076+/-0.035 $\chi^2$/NDF:106940.9/4

Right Out: 105.567+/-0.028 $\chi^2$/NDF: 344605.1/18

Left In: 92.093+/-0.040 $\chi^2$/NDF:12435.3/2

Left: 92.659+/-0.026 $\chi^2$/NDF: 119718.3/7

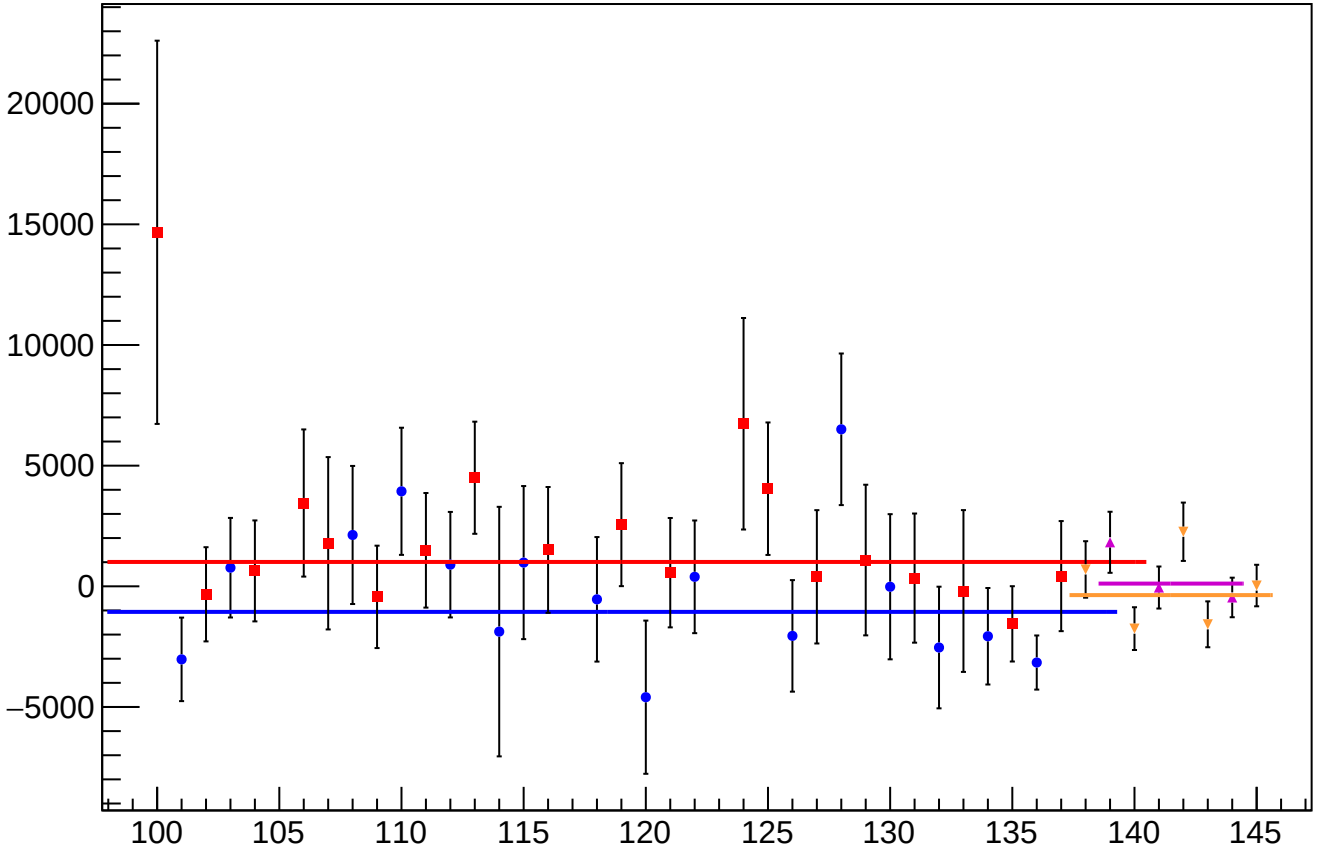
Right: 104.928+/-0.020 $\chi^2$/NDF: 723977.9/34

In: 100.342+/-0.023 $\chi^2$/NDF:452544.3/18

Out: 100.667+/-0.022 $\chi^2$/NDF:530647.4/23

All: 100.514+/-0.016 $\chi^2$/NDF: 983297.8/42

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: -364.016+/-440.837 $\chi^2$/NDF:9.8/4

Right Out: 1009.907+/-575.099 $\chi^2$/NDF: 13.3/18

Left In: 112.860+/-539.749 $\chi^2$/NDF:2.4/2

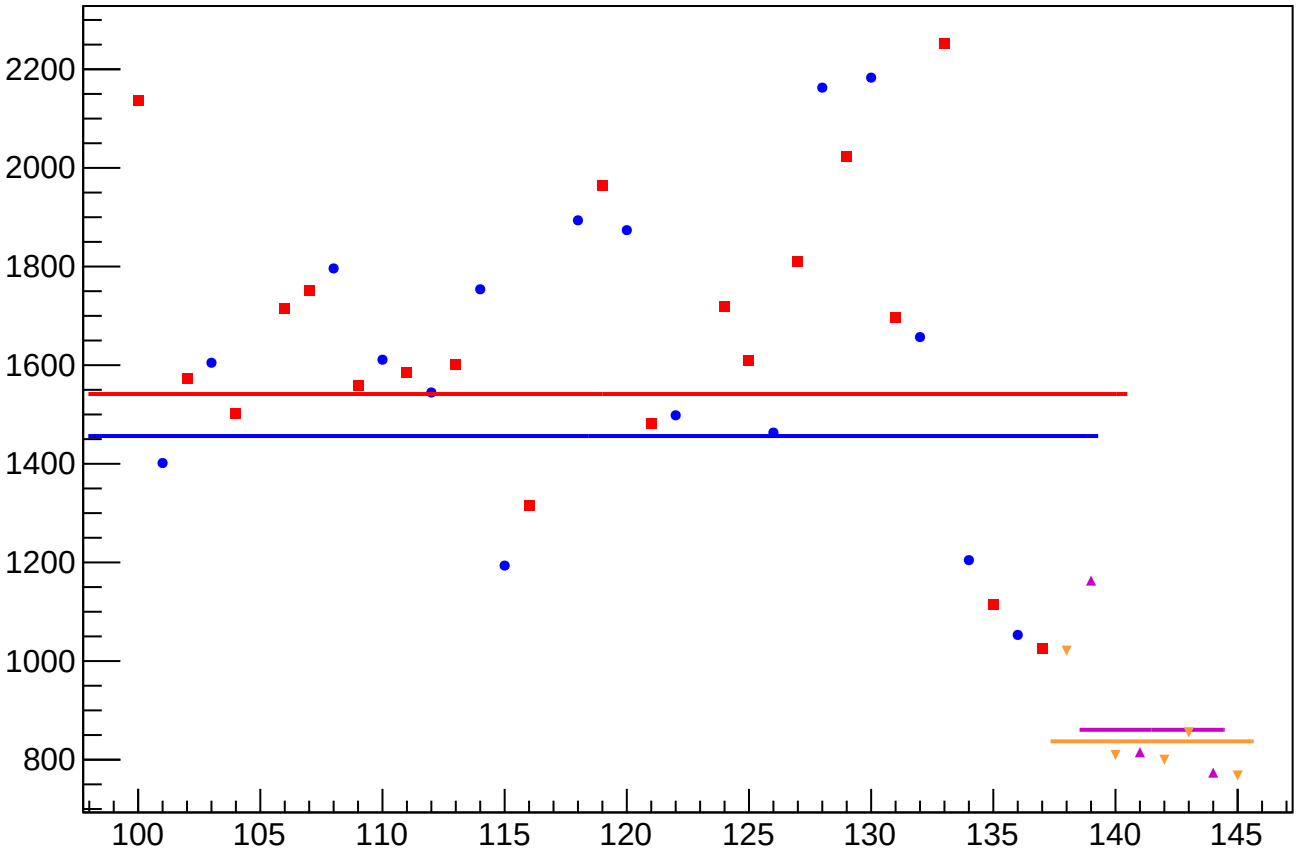
Left: -173.196+/-341.430 $\chi^2$/NDF: 12.7/7

Right: -56.602+/-400.342 $\chi^2$/NDF: 40.0/34

In: -454.137+/-387.832 $\chi^2$/NDF:24.7/18

Out: 144.490+/-349.872 $\chi^2$/NDF:26.7/23

All: -124.101+/-259.784 $\chi^2$/NDF: 52.7/42




Right In: 1456.301+/-0.394 $\chi^2$/NDF: 684803.6/15

Left Out: 837.207+/-0.312 $\chi^2$/NDF:66948.7/4

Right Out: 1541.520+/-0.407 $\chi^2$/NDF: 519336.6/18

Left In: 860.628+/-0.382 $\chi^2$/NDF:142345.9/2

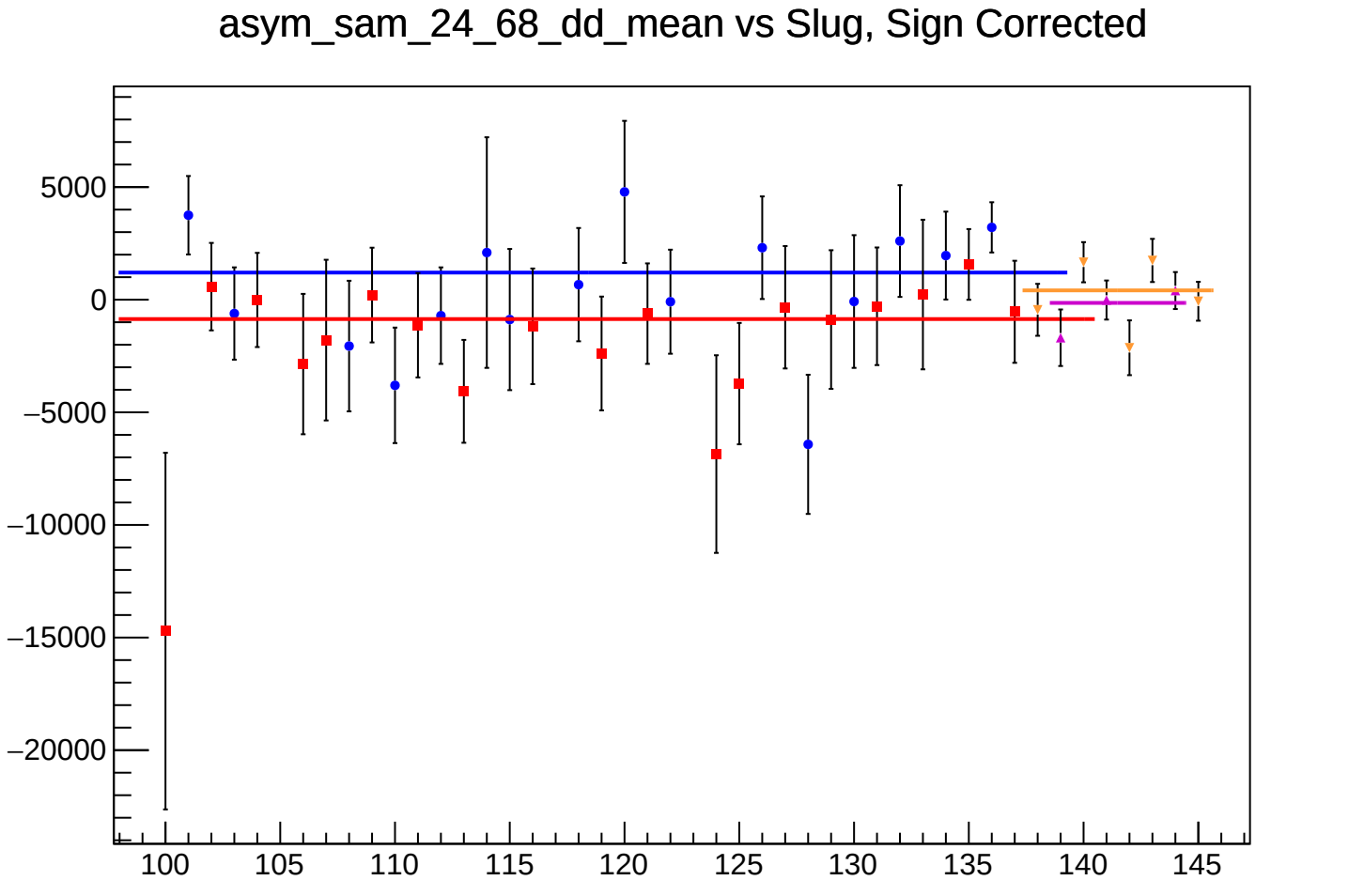
Left: 846.579+/-0.241 $\chi^2$/NDF: 211553.6/7

Right: 1497.597+/-0.283 $\chi^2$/NDF: 1226774.5/34

In: 1148.754+/-0.274 $\chi^2$/NDF:2005392.1/18

Out: 1097.882+/-0.247 $\chi^2$/NDF:2475750.0/23

All: 1120.707+/-0.184 $\chi^2$/NDF: 4500113.7/42




Right In: 1204.691+/-551.729 $\chi^2$/NDF: 21.1/15

Left Out: 413.822+/-442.071 $\chi^2$/NDF:9.1/4

Right Out: -859.290+/-570.391 $\chi^2$/NDF: 12.5/18

Left In: -142.111+/-538.541 $\chi^2$/NDF:2.0/2

Left: 190.022+/-341.694 $\chi^2$/NDF: 11.8/7

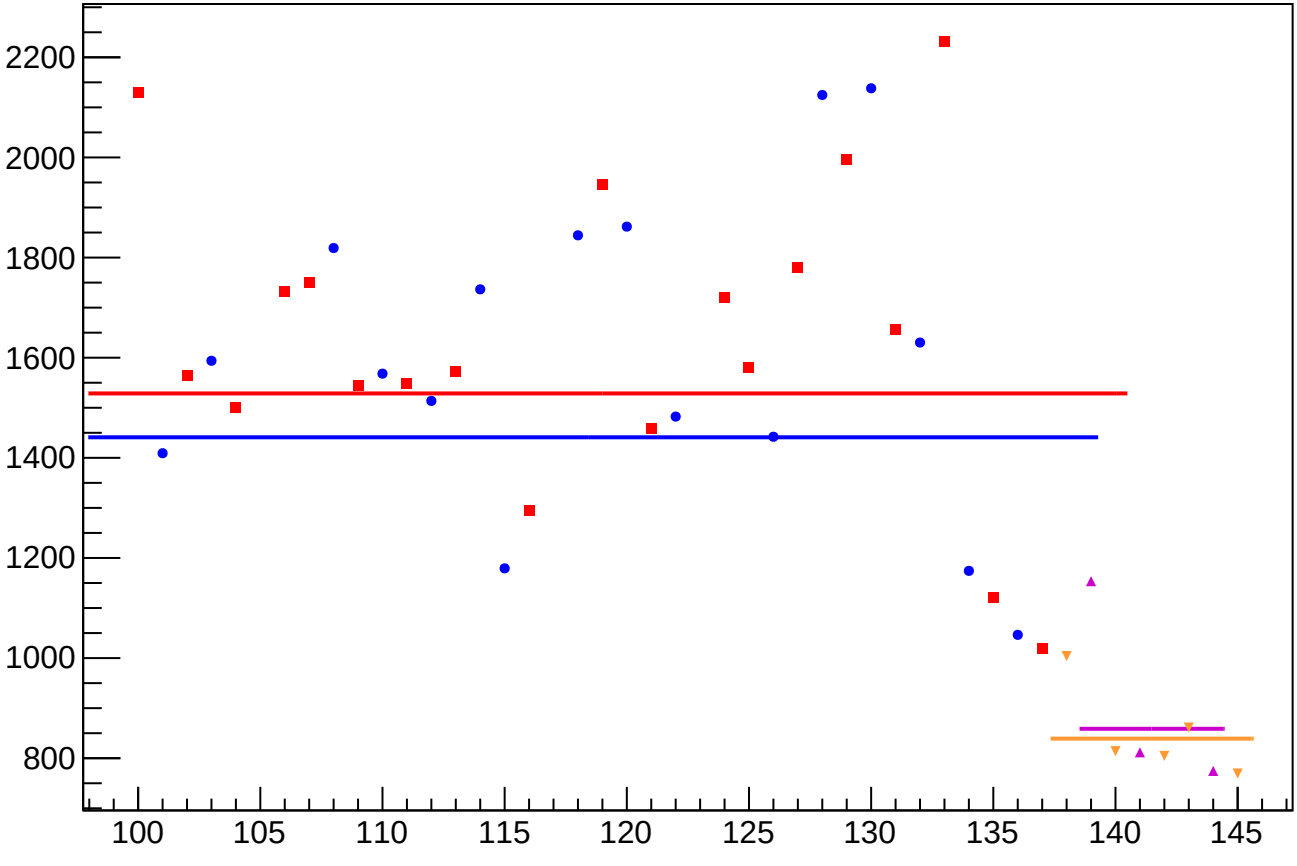
Right: 207.019+/-396.565 $\chi^2$/NDF: 40.4/34

In: 515.003+/-385.384 $\chi^2$/NDF:26.2/18

Out: -63.930+/-349.415 $\chi^2$/NDF:24.8/23

All: 197.264+/-258.858 $\chi^2$/NDF: 52.2/42

# asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 1441.025+/-0.390 $\chi^2$/NDF: 670674.6/15

Left Out: 839.143+/-0.313 $\chi^2$/NDF:58182.7/4

Right Out: 1528.652+/-0.403 $\chi^2$/NDF: 501717.6/18

Left In: 858.820+/-0.381 $\chi^2$/NDF:137326.3/2

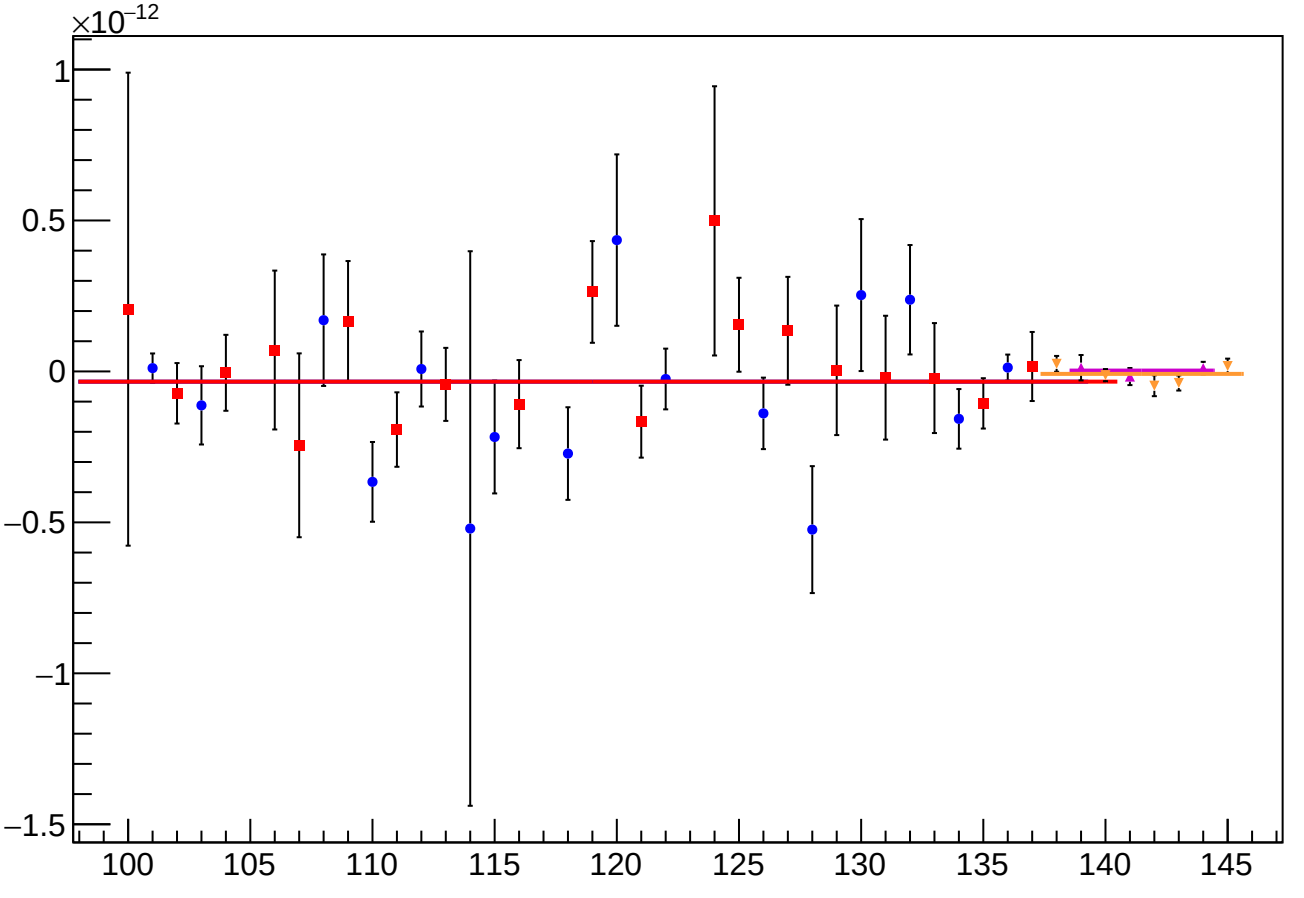
Left: 847.064+/-0.242 $\chi^2$/NDF: 197104.2/7

Right: 1483.381+/-0.280 $\chi^2$/NDF: 1196778.1/34

In: 1142.882+/-0.273 $\chi^2$/NDF:1948459.0/18

Out: 1097.890+/-0.247 $\chi^2$/NDF:2385732.1/23

All: 1118.189+/-0.183 $\chi^2$/NDF: 4349151.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 27.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.7/2

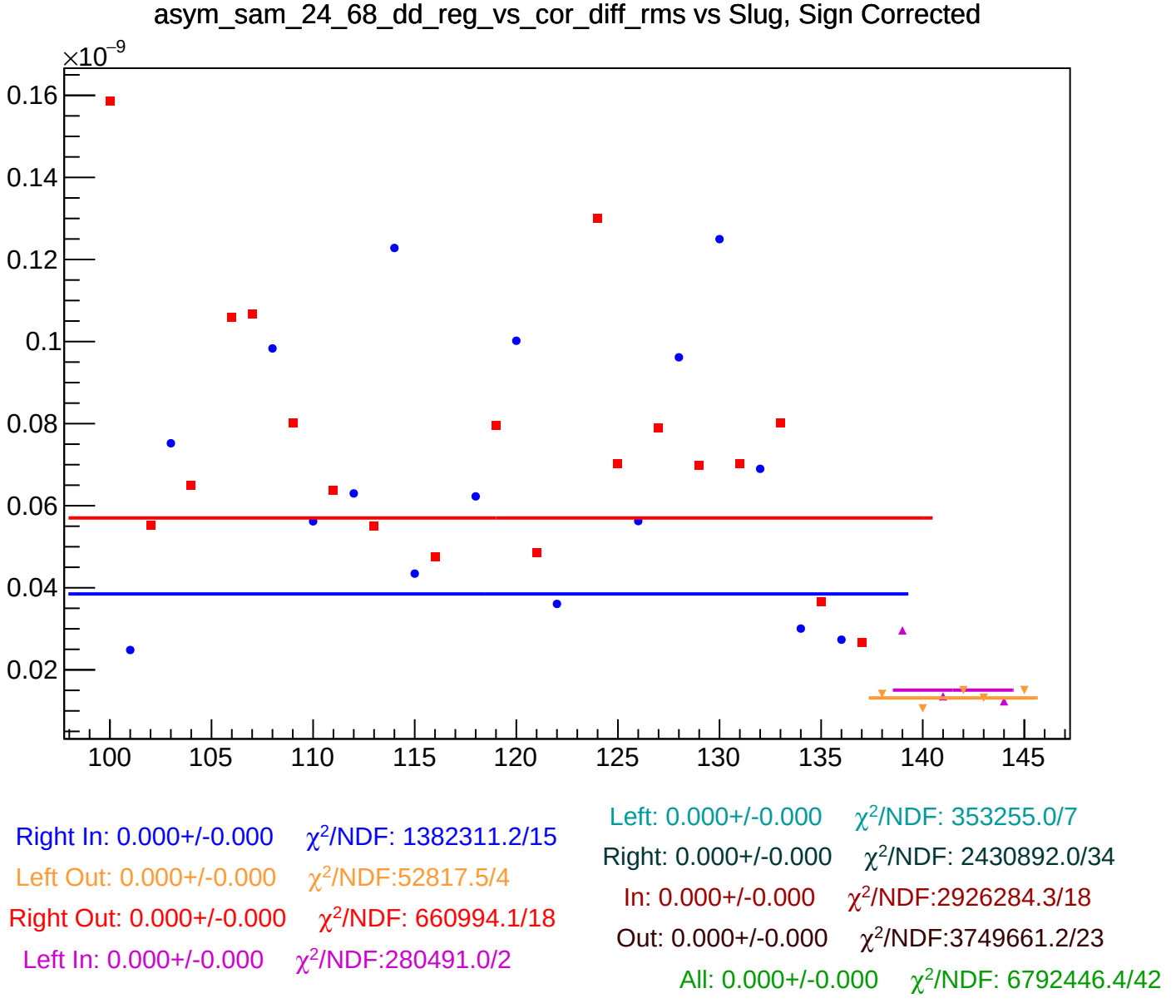
Left: -0.000+/-0.000 $\chi^2$/NDF: 6.5/7

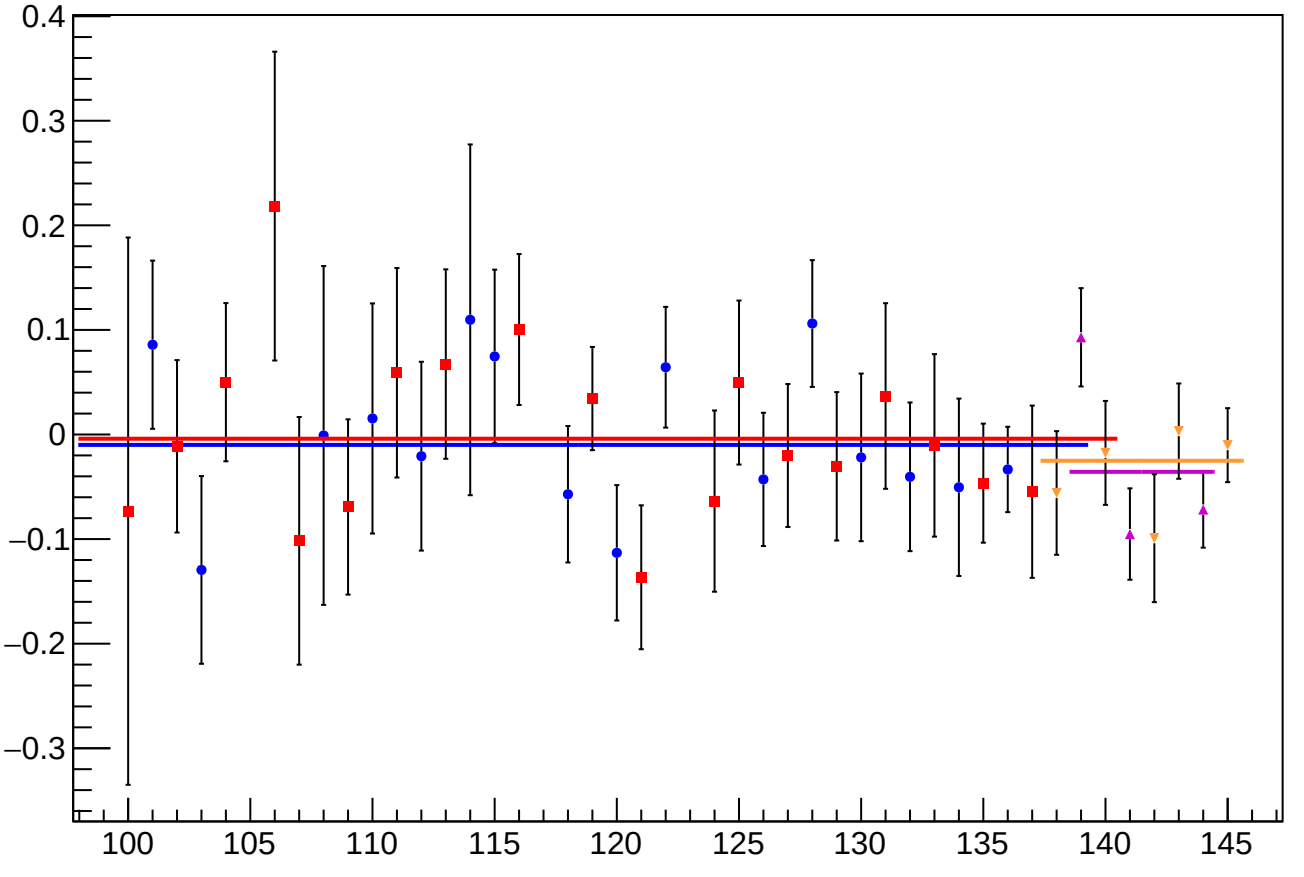
Right: -0.000+/-0.000 $\chi^2$/NDF: 40.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:29.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 48.7/42


asym_sam_24_68_dd_reg_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
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1382311.2/15
Left Out: 0.000+/-0.000 χ²/NDF:52817.5/4
Right Out: 0.000+/-0.000 χ²/NDF: 660994.1/18
Left In: 0.000+/-0.000 χ²/NDF:280491.0/2
Left: 0.000+/-0.000 χ²/NDF: 353255.0/7
Right: 0.000+/-0.000 χ²/NDF: 2430892.0/34
In: 0.000+/-0.000 χ²/NDF:2926284.3/18
Out: 0.000+/-0.000 χ²/NDF:3749661.2/23
All: 0.000+/-0.000 χ²/NDF: 6792446.4/42




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: -0.025+/-0.021 $\chi^2$/NDF:2.3/4

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: -0.036+/-0.024 $\chi^2$/NDF:10.3/2

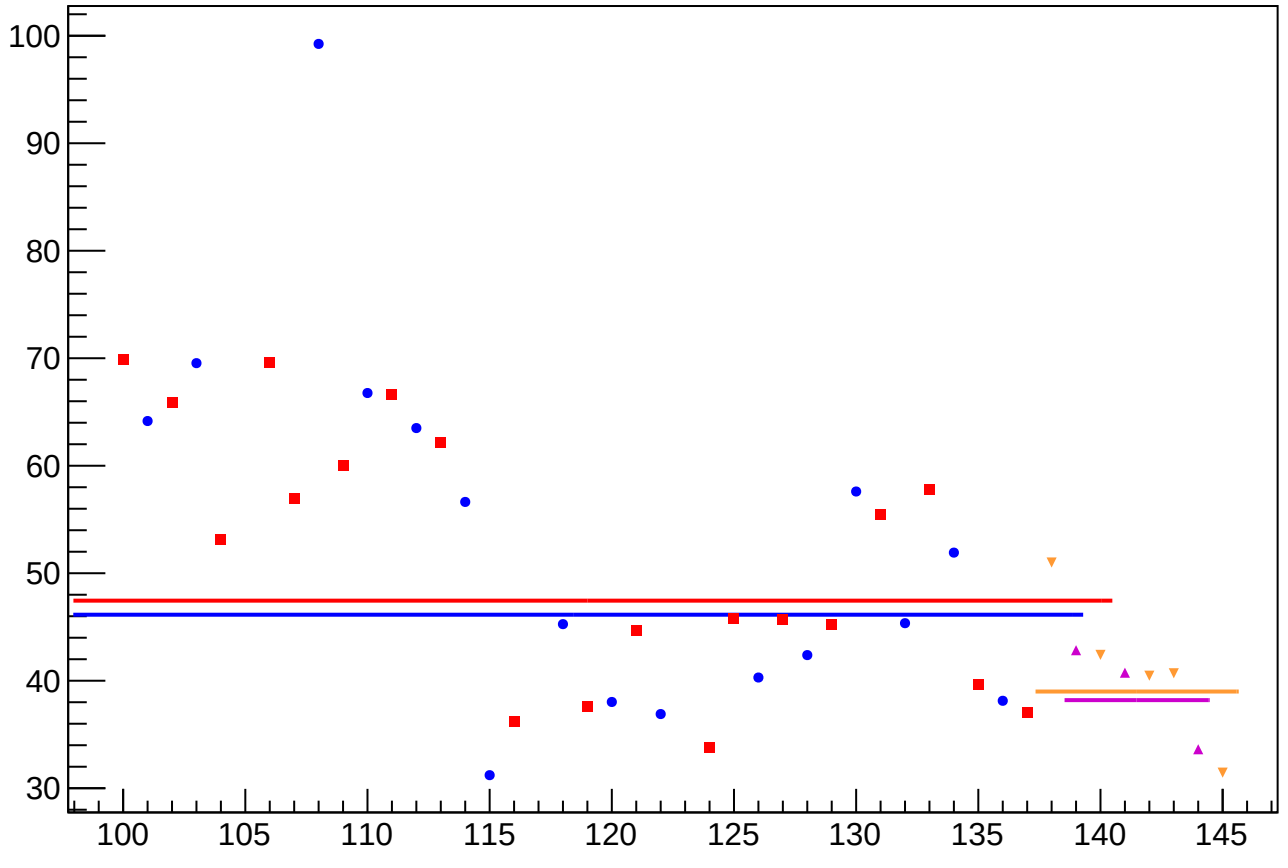
Left: -0.030+/-0.016 $\chi^2$/NDF: 12.8/7

Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: -0.019+/-0.014 $\chi^2$/NDF:25.3/18

Out: -0.013+/-0.014 $\chi^2$/NDF:16.8/23

All: -0.016+/-0.010 $\chi^2$/NDF: 42.1/42




Right In: 46.141+/-0.013 $\chi^2$/NDF: 903280.2/15

Left Out: 38.995+/-0.015 $\chi^2$/NDF:186749.2/4

Right Out: 47.450+/-0.013 $\chi^2$/NDF: 654693.6/18

Left In: 38.195+/-0.017 $\chi^2$/NDF:57797.6/2

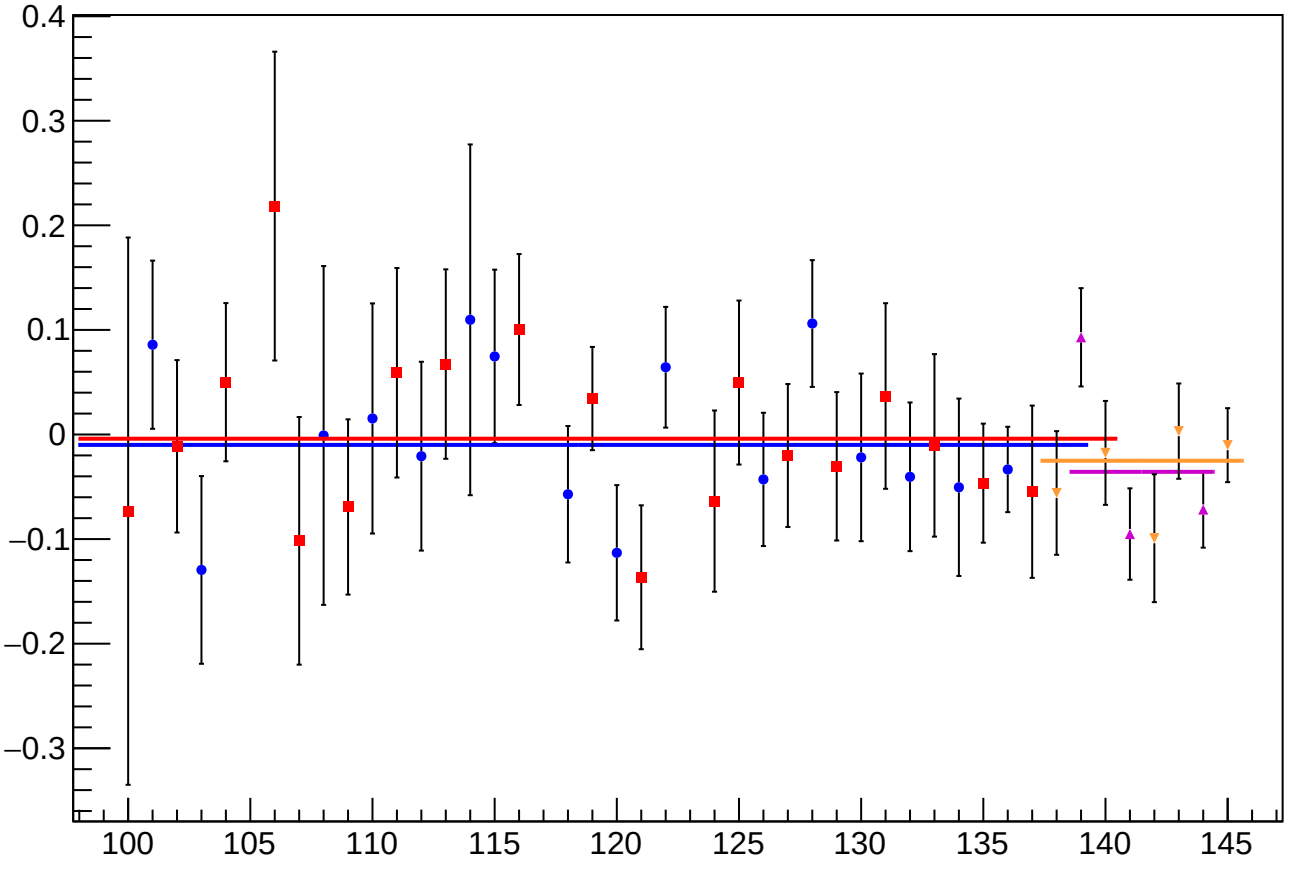
Left: 38.647+/-0.011 $\chi^2$/NDF: 245796.2/7

Right: 46.792+/-0.009 $\chi^2$/NDF: 1563231.6/34

In: 43.289+/-0.010 $\chi^2$/NDF:1101082.9/18

Out: 43.873+/-0.010 $\chi^2$/NDF:1026178.1/23

All: 43.595+/-0.007 $\chi^2$/NDF: 2128981.0/42




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: -0.025+/-0.021 $\chi^2$/NDF:2.3/4

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: -0.036+/-0.024 $\chi^2$/NDF:10.3/2

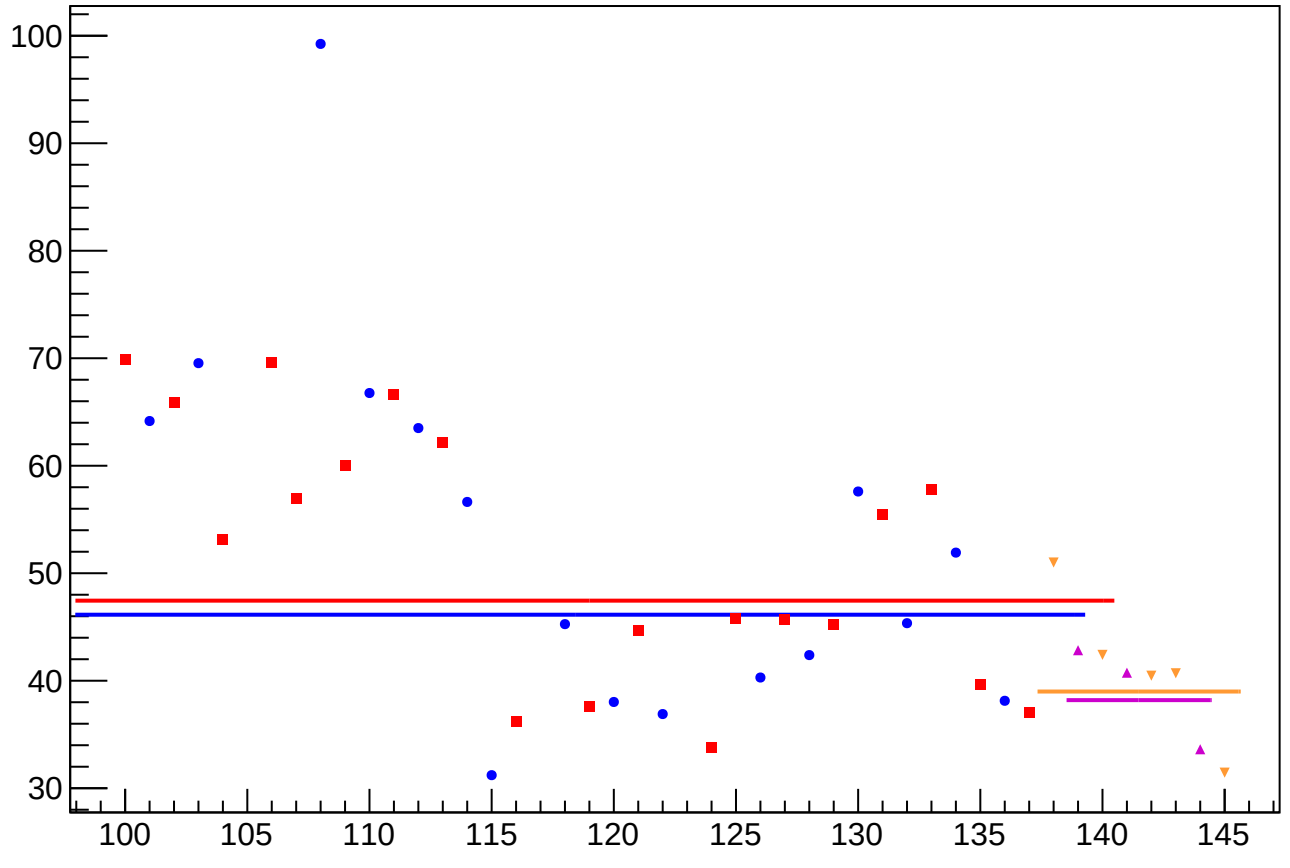
Left: -0.030+/-0.016 $\chi^2$/NDF: 12.8/7

Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: -0.019+/-0.014 $\chi^2$/NDF:25.3/18

Out: -0.013+/-0.014 $\chi^2$/NDF:16.8/23

All: -0.016+/-0.010 $\chi^2$/NDF: 42.1/42




Right In: 46.141+/-0.013 $\chi^2$/NDF: 903280.2/15

Left Out: 38.995+/-0.015 $\chi^2$/NDF:186749.2/4

Right Out: 47.450+/-0.013 $\chi^2$/NDF: 654693.6/18

Left In: 38.195+/-0.017 $\chi^2$/NDF:57797.6/2

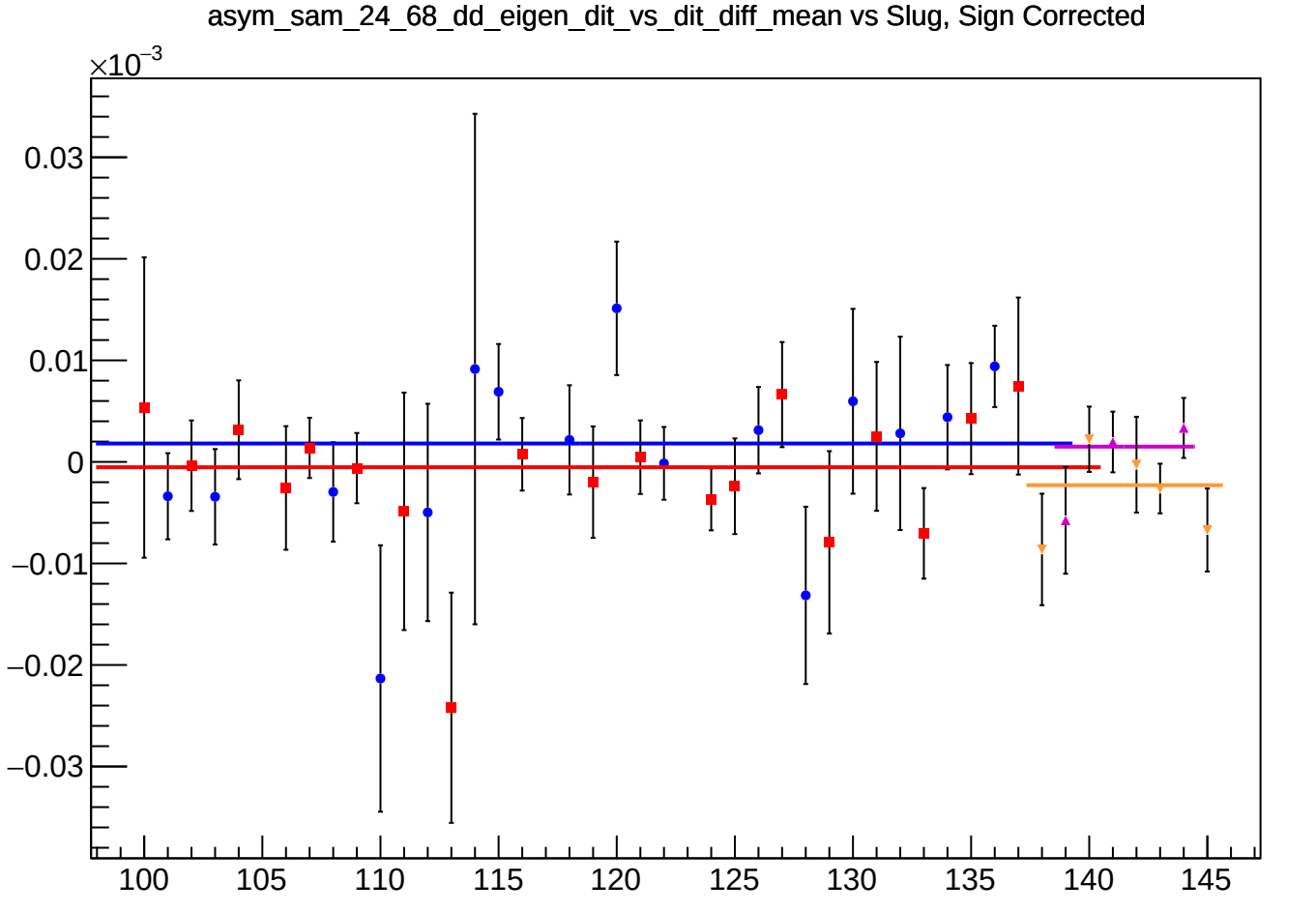
Left: 38.647+/-0.011 $\chi^2$/NDF: 245796.2/7

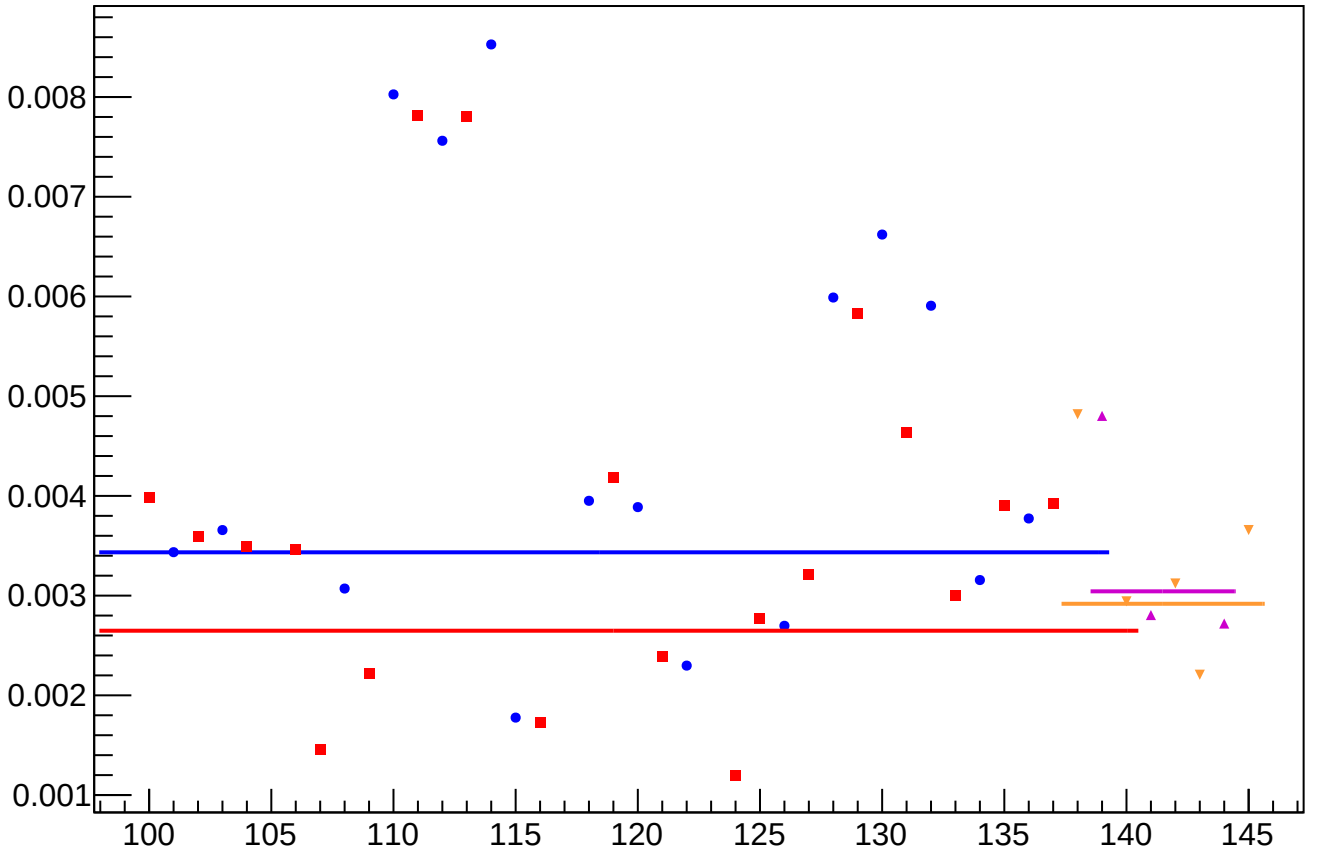
Right: 46.792+/-0.009 $\chi^2$/NDF: 1563231.6/34

In: 43.289+/-0.010 $\chi^2$/NDF:1101082.9/18

Out: 43.873+/-0.010 $\chi^2$/NDF:1026178.1/23

All: 43.595+/-0.007 $\chi^2$/NDF: 2128981.0/42


asym_sam_24_68_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
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 20.0/15
Left Out: -0.000+/-0.000 χ²/NDF:4.7/4
Right Out: -0.000+/-0.000 χ²/NDF: 13.8/18
Left In: 0.000+/-0.000 χ²/NDF:2.3/2
Left: -0.000+/-0.000 χ²/NDF: 9.3/7
Right: 0.000+/-0.000 χ²/NDF: 35.5/34
In: 0.000+/-0.000 χ²/NDF:22.3/18
Out: -0.000+/-0.000 χ²/NDF:19.3/23
All: -0.000+/-0.000 χ²/NDF: 45.4/42




Right In: 0.003+/-0.000 $\chi^2$/NDF: 1748561.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:477800.7/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2696872.6/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:260283.4/2

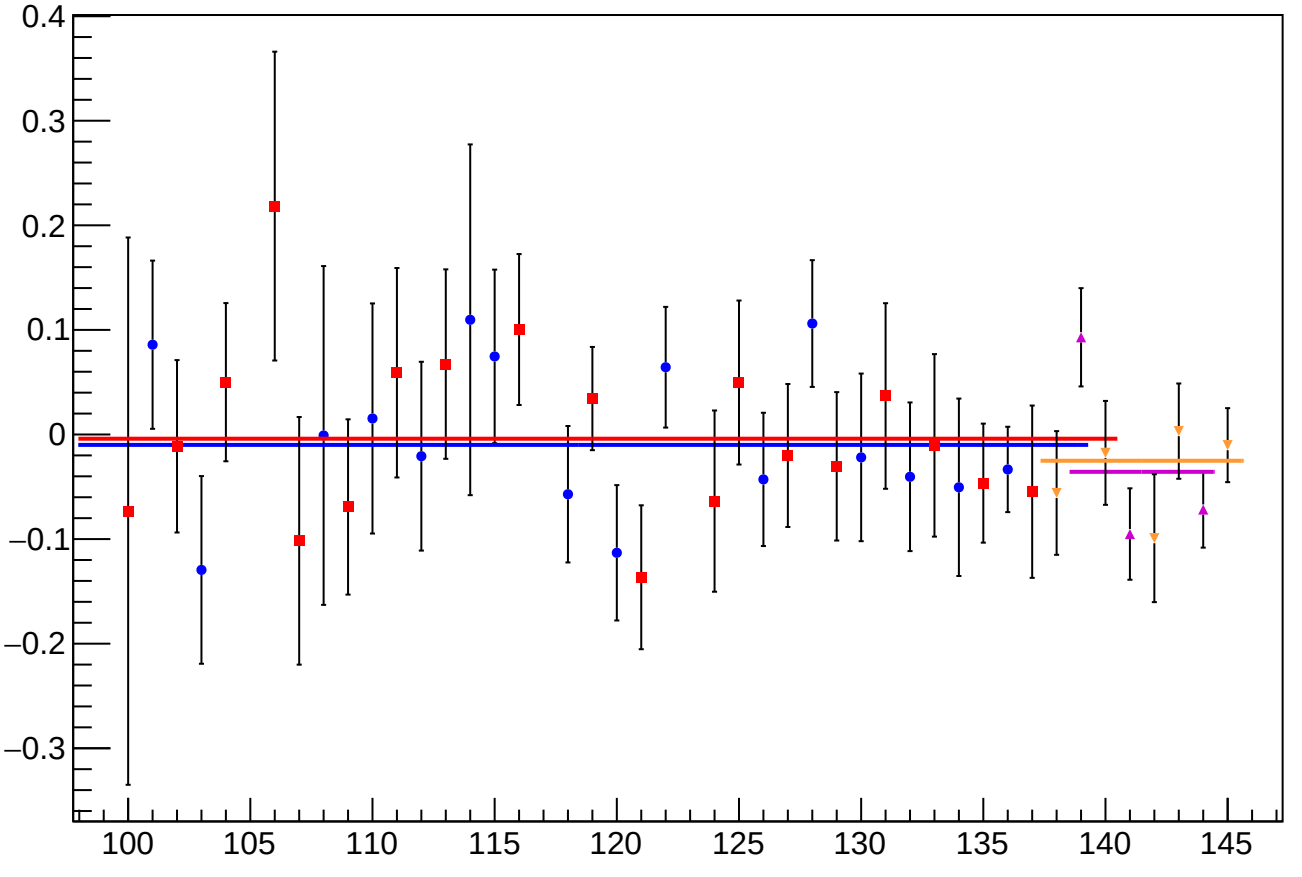
Left: 0.003+/-0.000 $\chi^2$/NDF: 743024.8/7

Right: 0.003+/-0.000 $\chi^2$/NDF: 4848064.7/34

In: 0.003+/-0.000 $\chi^2$/NDF:2062681.4/18

Out: 0.003+/-0.000 $\chi^2$/NDF:3214364.3/23

All: 0.003+/-0.000 $\chi^2$/NDF: 5591299.7/42




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: -0.025+/-0.021 $\chi^2$/NDF:2.3/4

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: -0.036+/-0.024 $\chi^2$/NDF:10.3/2

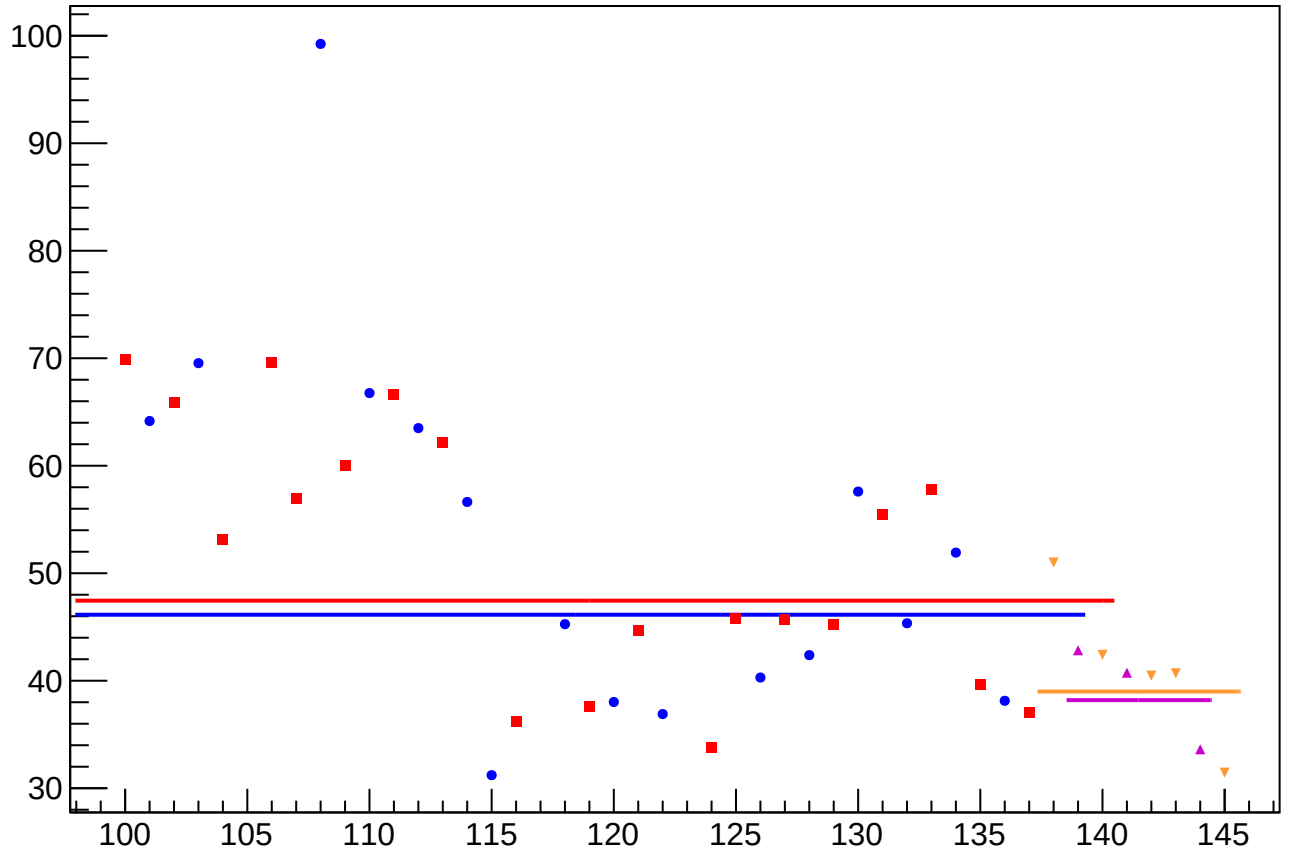
Left: -0.030+/-0.016 $\chi^2$/NDF: 12.8/7

Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: -0.019+/-0.014 $\chi^2$/NDF:25.3/18

Out: -0.013+/-0.014 $\chi^2$/NDF:16.8/23

All: -0.016+/-0.010 $\chi^2$/NDF: 42.1/42




Right In: 46.140+/-0.013 $\chi^2$/NDF: 903251.1/15

Left Out: 38.995+/-0.015 $\chi^2$/NDF:186745.0/4

Right Out: 47.448+/-0.013 $\chi^2$/NDF: 654687.8/18

Left In: 38.195+/-0.017 $\chi^2$/NDF:57794.4/2

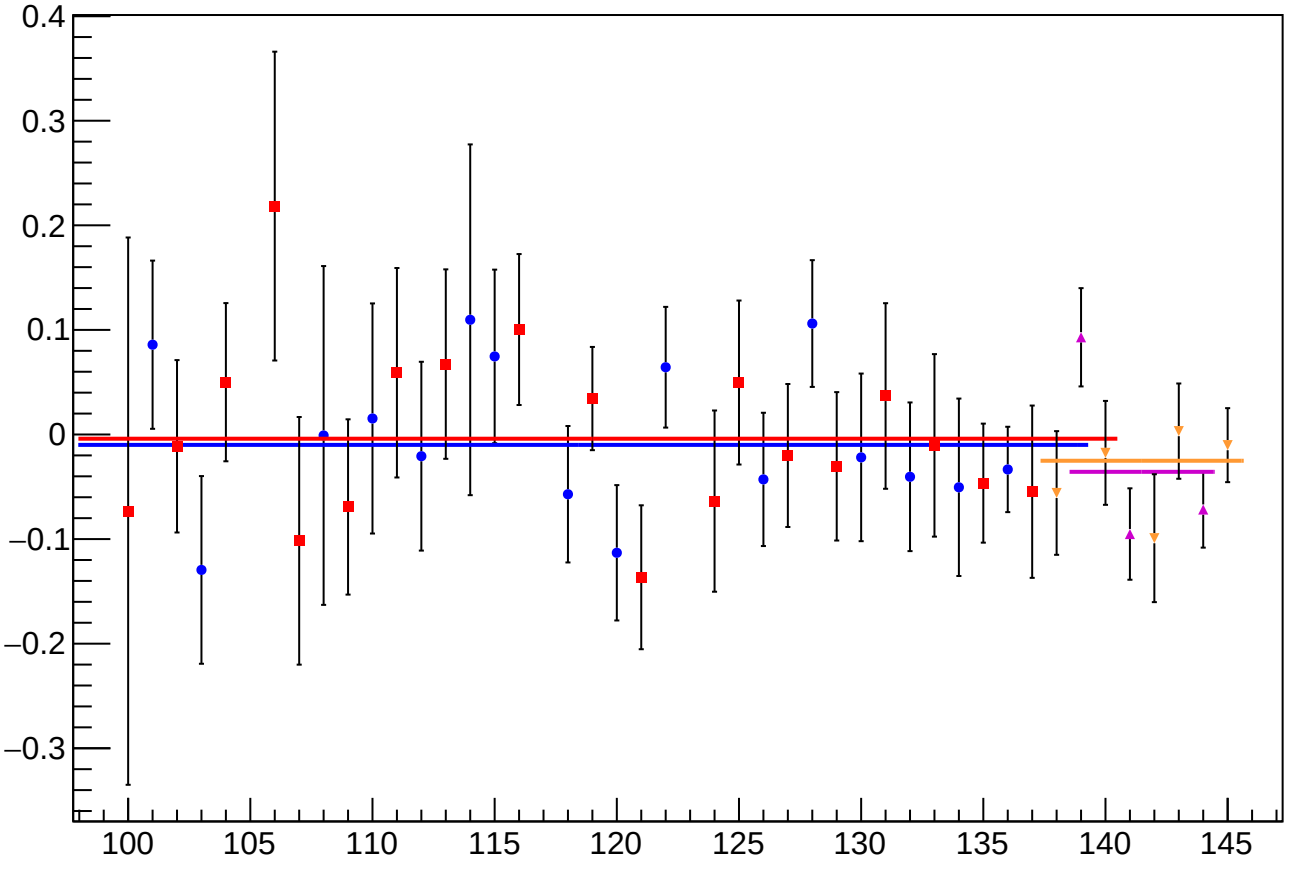
Left: 38.646+/-0.011 $\chi^2$/NDF: 245789.5/7

Right: 46.790+/-0.009 $\chi^2$/NDF: 1563199.9/34

In: 43.288+/-0.010 $\chi^2$/NDF:1101007.7/18

Out: 43.873+/-0.010 $\chi^2$/NDF:1026118.6/23

All: 43.594+/-0.007 $\chi^2$/NDF: 2128848.7/42




Right In: -0.010+/-0.018 $\chi^2$/NDF: 14.2/15

Left Out: -0.025+/-0.021 $\chi^2$/NDF:2.3/4

Right Out: -0.004+/-0.018 $\chi^2$/NDF: 13.9/18

Left In: -0.036+/-0.024 $\chi^2$/NDF:10.3/2

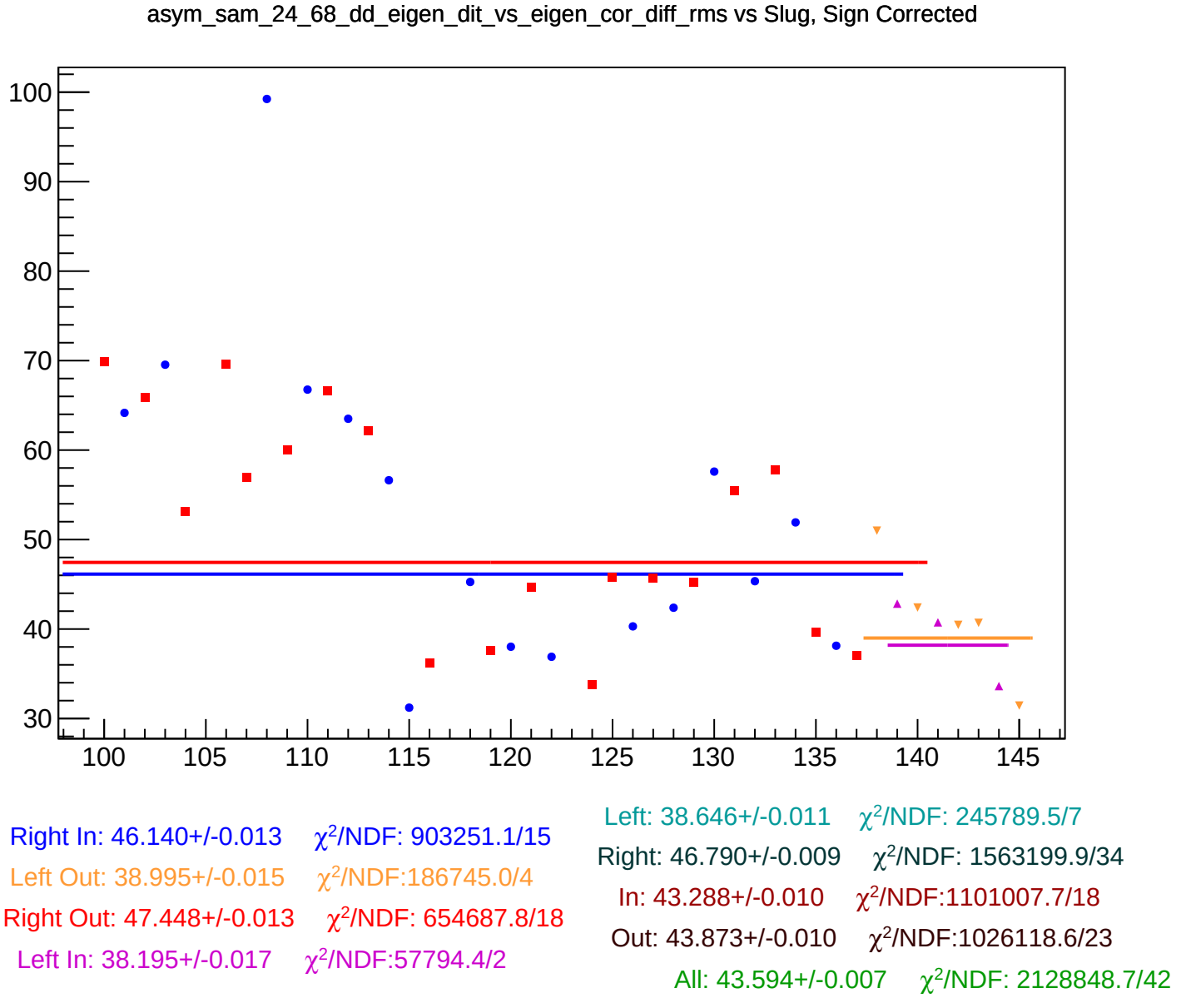
Left: -0.030+/-0.016 $\chi^2$/NDF: 12.8/7

Right: -0.007+/-0.013 $\chi^2$/NDF: 28.1/34

In: -0.019+/-0.014 $\chi^2$/NDF:25.3/18

Out: -0.013+/-0.014 $\chi^2$/NDF:16.8/23

All: -0.016+/-0.010 $\chi^2$/NDF: 42.1/42


asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
100
90
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100
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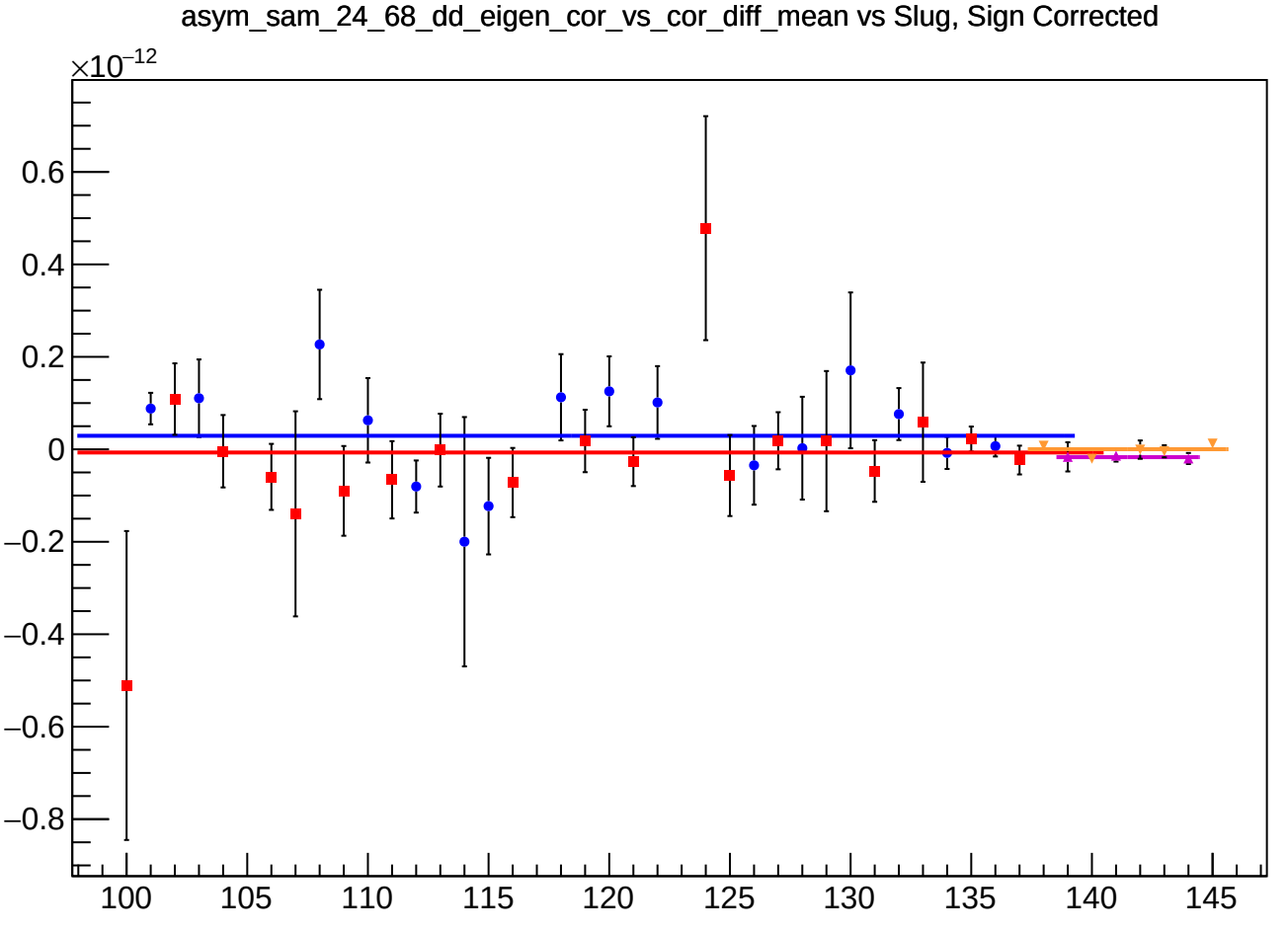
140
145
Right In: 46.140+/-0.013 χ²/NDF: 903251.1/15
Left Out: 38.995+/-0.015 χ²/NDF:186745.0/4
Right Out: 47.448+/-0.013 χ²/NDF: 654687.8/18
Left In: 38.195+/-0.017 χ²/NDF:57794.4/2
Left: 38.646+/-0.011 χ²/NDF: 245789.5/7
Right: 46.790+/-0.009 χ²/NDF: 1563199.9/34
In: 43.288+/-0.010 χ²/NDF:1101007.7/18
Out: 43.873+/-0.010 χ²/NDF:1026118.6/23
All: 43.594+/-0.007 χ²/NDF: 2128848.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.1/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.1/2

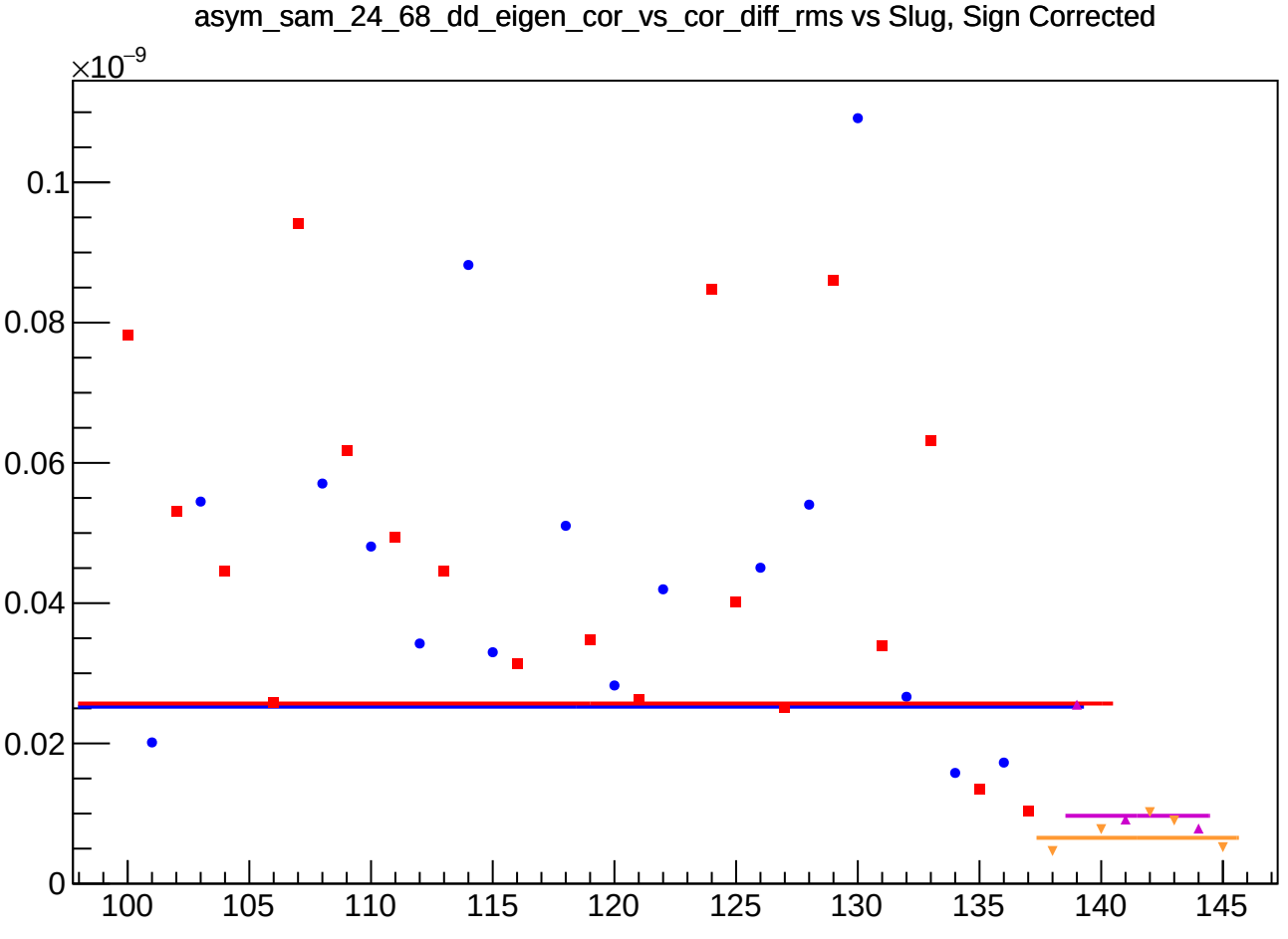
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:29.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 50.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2117960.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:279389.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2790840.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:553456.3/2

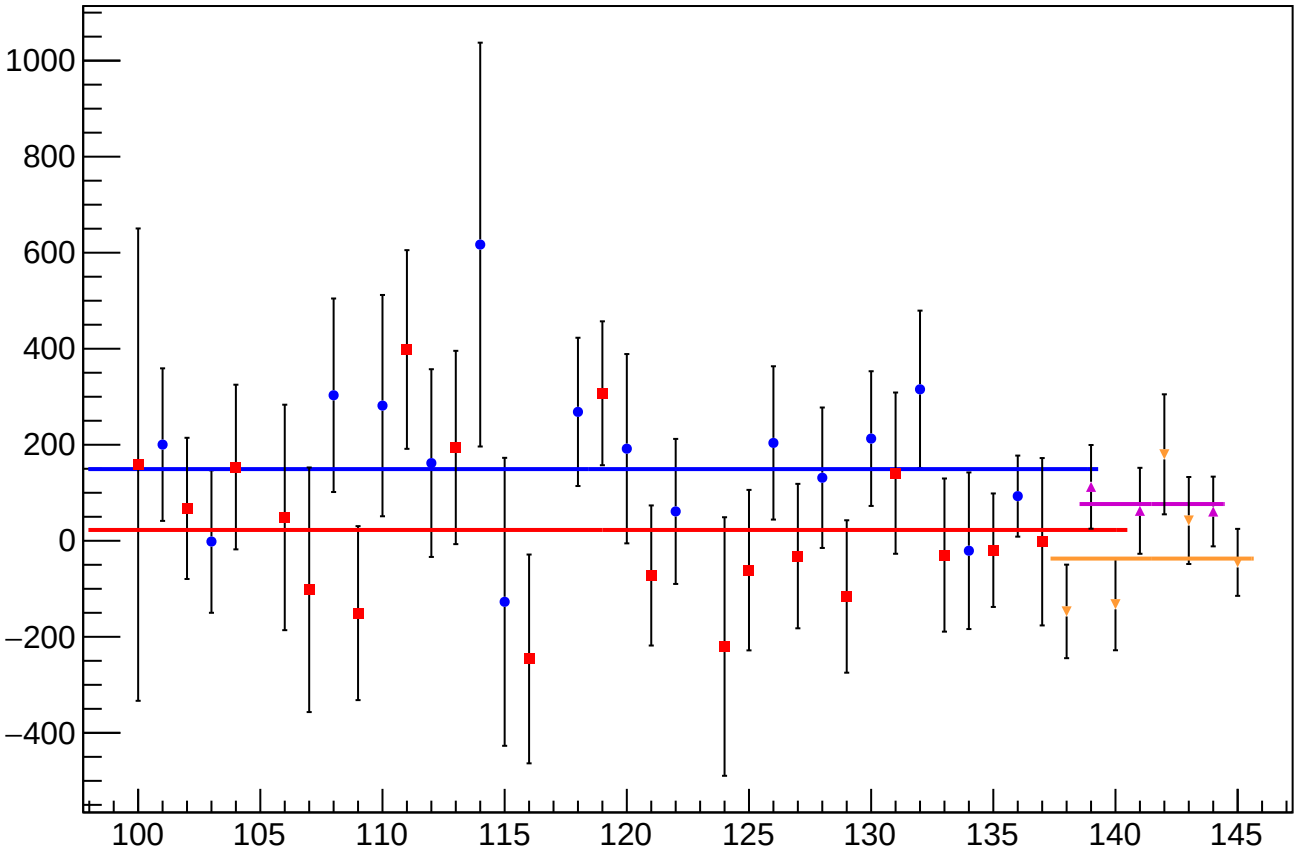
Left: 0.000+/-0.000 $\chi^2$/NDF: 1036116.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4909837.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:4579673.7/18

Out: 0.000+/-0.000 $\chi^2$/NDF:6235571.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11586678.4/42




Right In: 149.303+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: -37.064+/-40.638 $\chi^2$/NDF:6.1/4

Right Out: 22.549+/-40.100 $\chi^2$/NDF: 14.2/18

Left In: 76.554+/-47.341 $\chi^2$/NDF:0.2/2

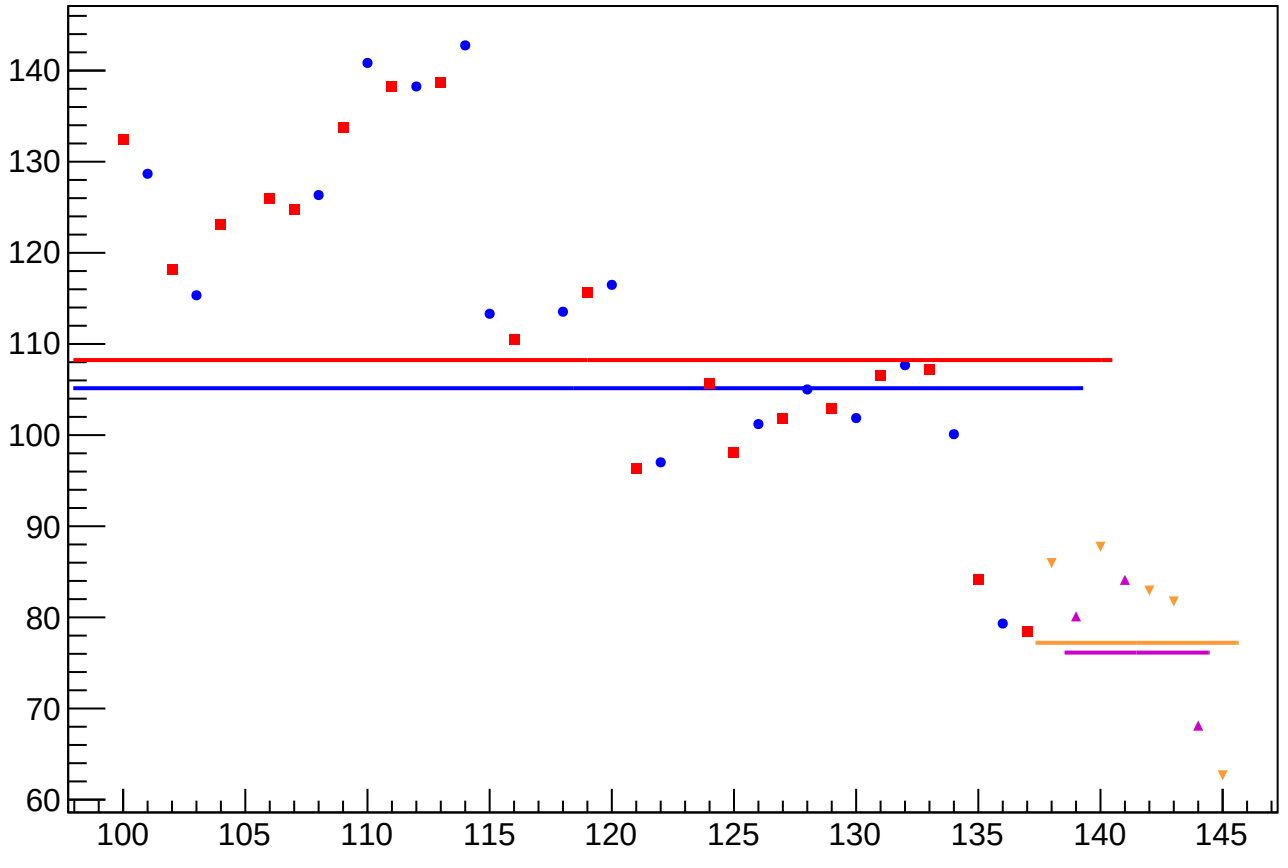
Left: 11.138+/-30.835 $\chi^2$/NDF: 9.6/7

Right: 86.583+/-28.208 $\chi^2$/NDF: 27.3/34

In: 119.278+/-30.414 $\chi^2$/NDF:9.6/18

Out: -6.861+/-28.543 $\chi^2$/NDF:21.4/23

All: 52.211+/-20.813 $\chi^2$/NDF: 40.2/42




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.3/15

Left Out: 77.208+/-0.029 $\chi^2$/NDF:136412.8/4

Right Out: 108.233+/-0.028 $\chi^2$/NDF: 349936.1/18

Left In: 76.135+/-0.033 $\chi^2$/NDF:44419.2/2

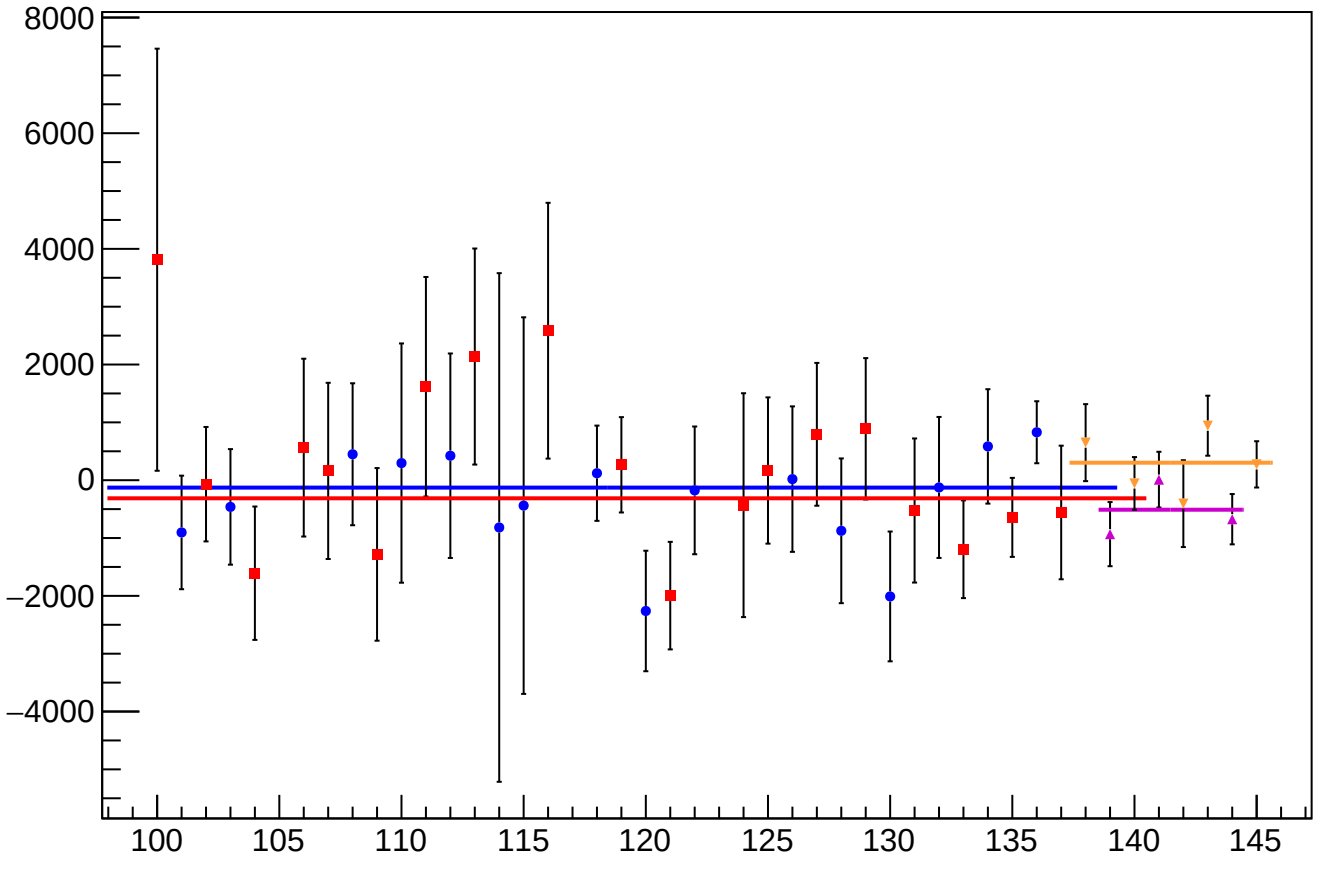
Left: 76.753+/-0.022 $\chi^2$/NDF: 181423.3/7

Right: 106.674+/-0.020 $\chi^2$/NDF: 764328.3/34

In: 93.173+/-0.022 $\chi^2$/NDF:893904.0/18

Out: 92.927+/-0.020 $\chi^2$/NDF:1076958.2/23

All: 93.042+/-0.015 $\chi^2$/NDF: 1970931.7/42




Right In: -128.056+/-268.611 $\chi^2$/NDF: 12.3/15

Left Out: 302.548+/-230.658 $\chi^2$/NDF:3.3/4

Right Out: -313.031+/-270.131 $\chi^2$/NDF: 15.0/18

Left In: -510.403+/-278.967 $\chi^2$/NDF:1.9/2

Left: -27.552+/-177.764 $\chi^2$/NDF: 10.2/7

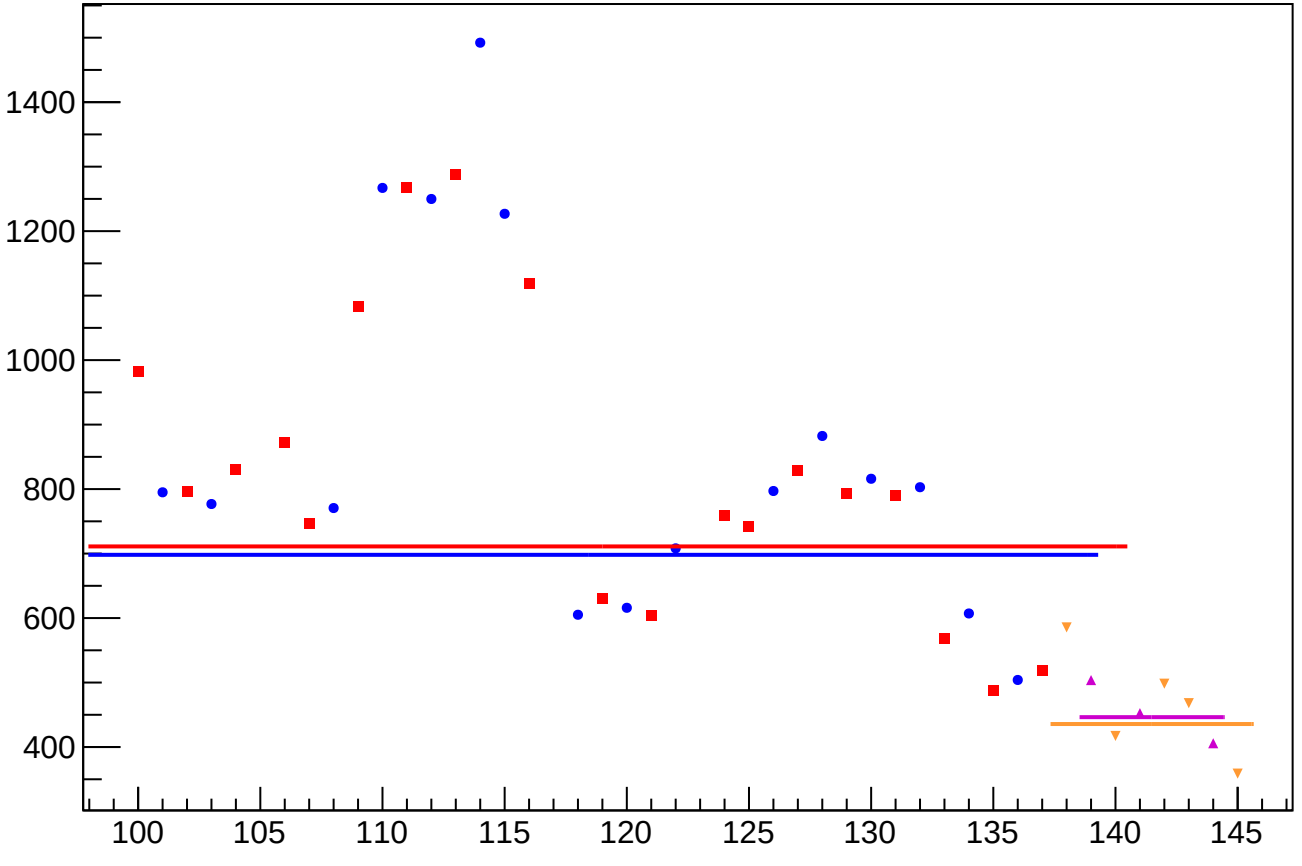
Right: -220.022+/-190.472 $\chi^2$/NDF: 27.5/34

In: -312.001+/-193.494 $\chi^2$/NDF:15.2/18

Out: 42.979+/-175.412 $\chi^2$/NDF:21.3/23

All: -117.153+/-129.959 $\chi^2$/NDF: 38.3/42

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: 435.678+/-0.163 $\chi^2$/NDF:200132.8/4

Right Out: 711.088+/-0.191 $\chi^2$/NDF: 1035118.4/18

Left In: 446.331+/-0.197 $\chi^2$/NDF:39164.7/2

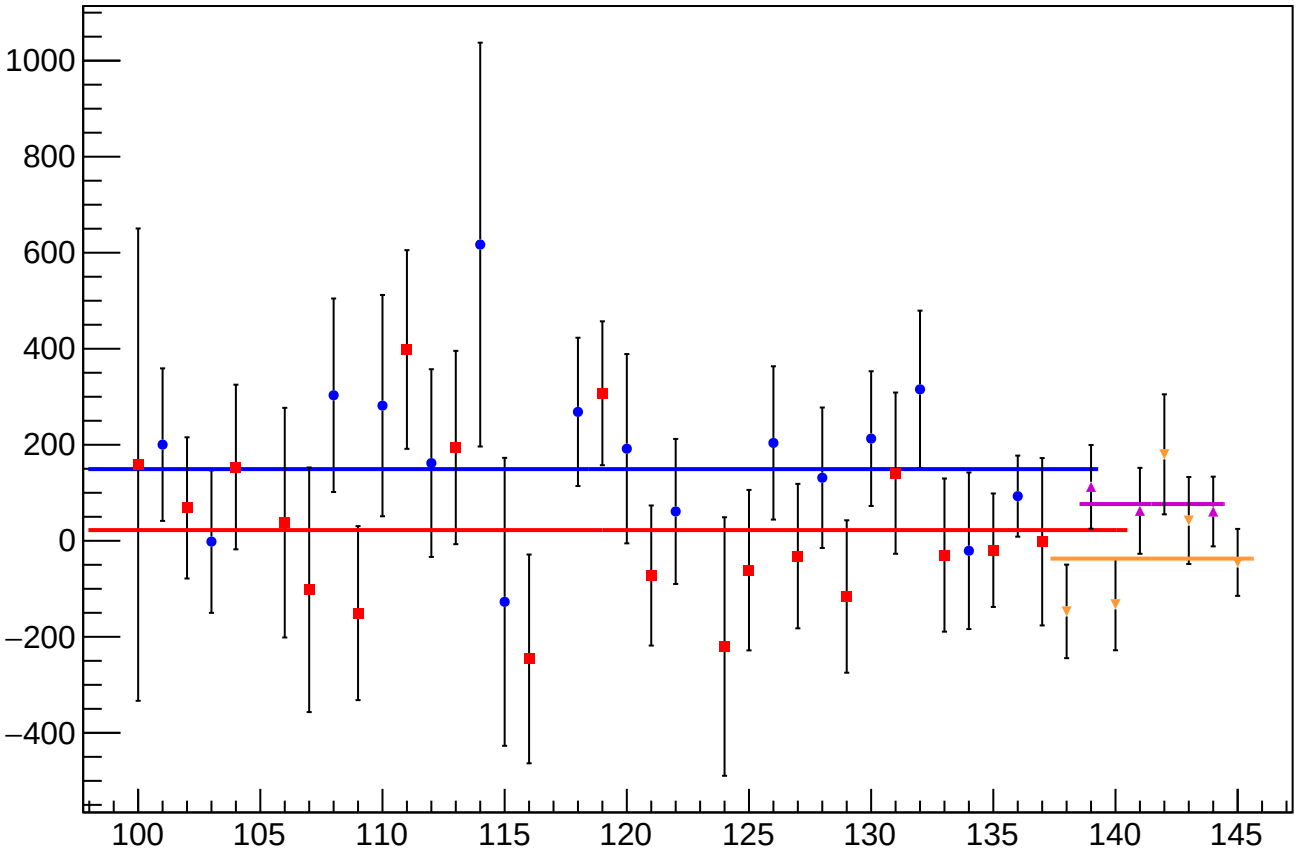
Left: 440.004+/-0.126 $\chi^2$/NDF: 241029.7/7

Right: 704.534+/-0.135 $\chi^2$/NDF: 1950310.9/34

In: 576.952+/-0.137 $\chi^2$/NDF:1797023.7/18

Out: 551.809+/-0.124 $\chi^2$/NDF:2437565.9/23

All: 563.151+/-0.092 $\chi^2$/NDF: 4253125.2/42




Right In: 149.294+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: -37.073+/-40.638 $\chi^2$/NDF:6.1/4

Right Out: 22.297+/-40.123 $\chi^2$/NDF: 14.2/18

Left In: 76.555+/-47.341 $\chi^2$/NDF:0.2/2

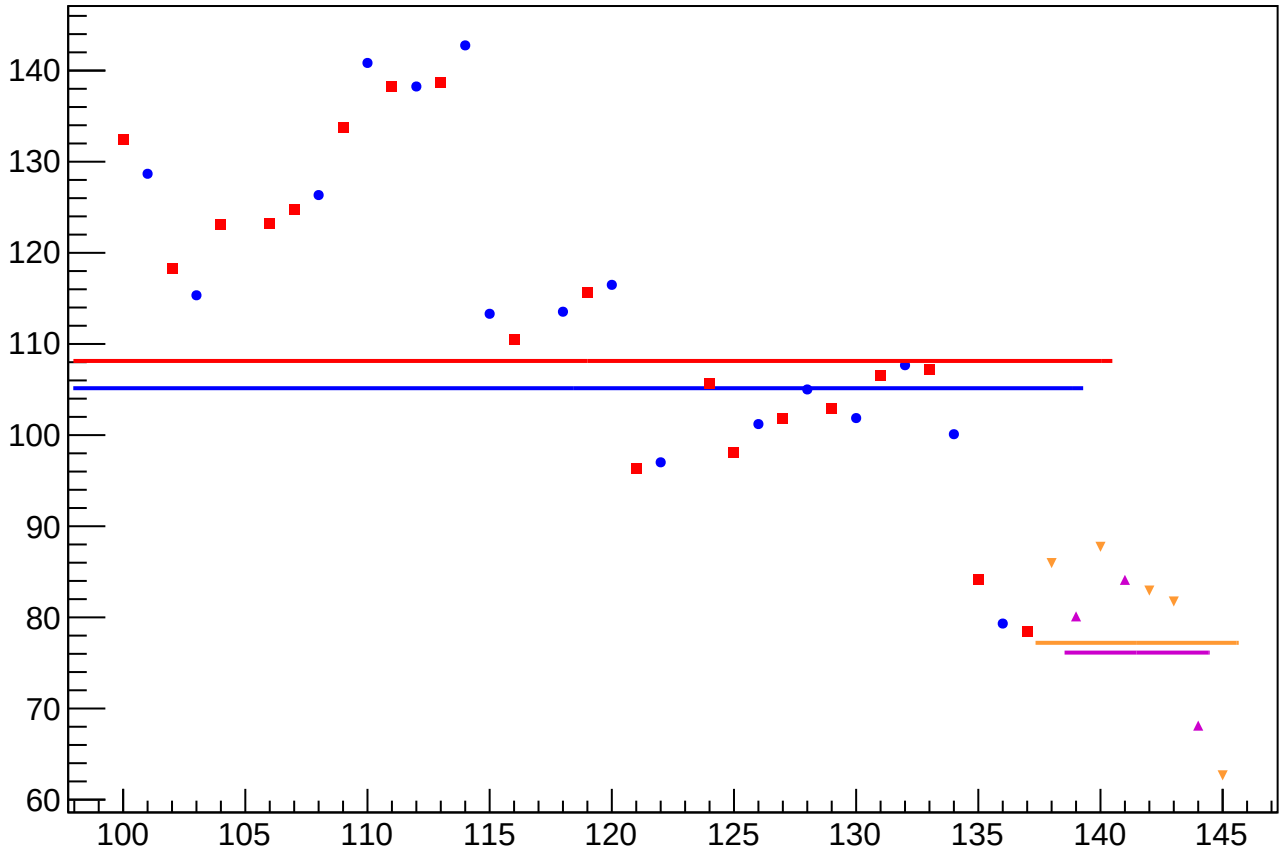
Left: 11.133+/-30.835 $\chi^2$/NDF: 9.6/7

Right: 86.488+/-28.216 $\chi^2$/NDF: 27.3/34

In: 119.273+/-30.414 $\chi^2$/NDF:9.6/18

Out: -7.009+/-28.551 $\chi^2$/NDF:21.3/23

All: 52.147+/-20.816 $\chi^2$/NDF: 40.2/42




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.5/15

Left Out: 77.208+/-0.029 $\chi^2$/NDF:136412.8/4

Right Out: 108.136+/-0.028 $\chi^2$/NDF: 346321.9/18

Left In: 76.135+/-0.033 $\chi^2$/NDF:44419.2/2

Left: 76.753+/-0.022 $\chi^2$/NDF: 181423.3/7

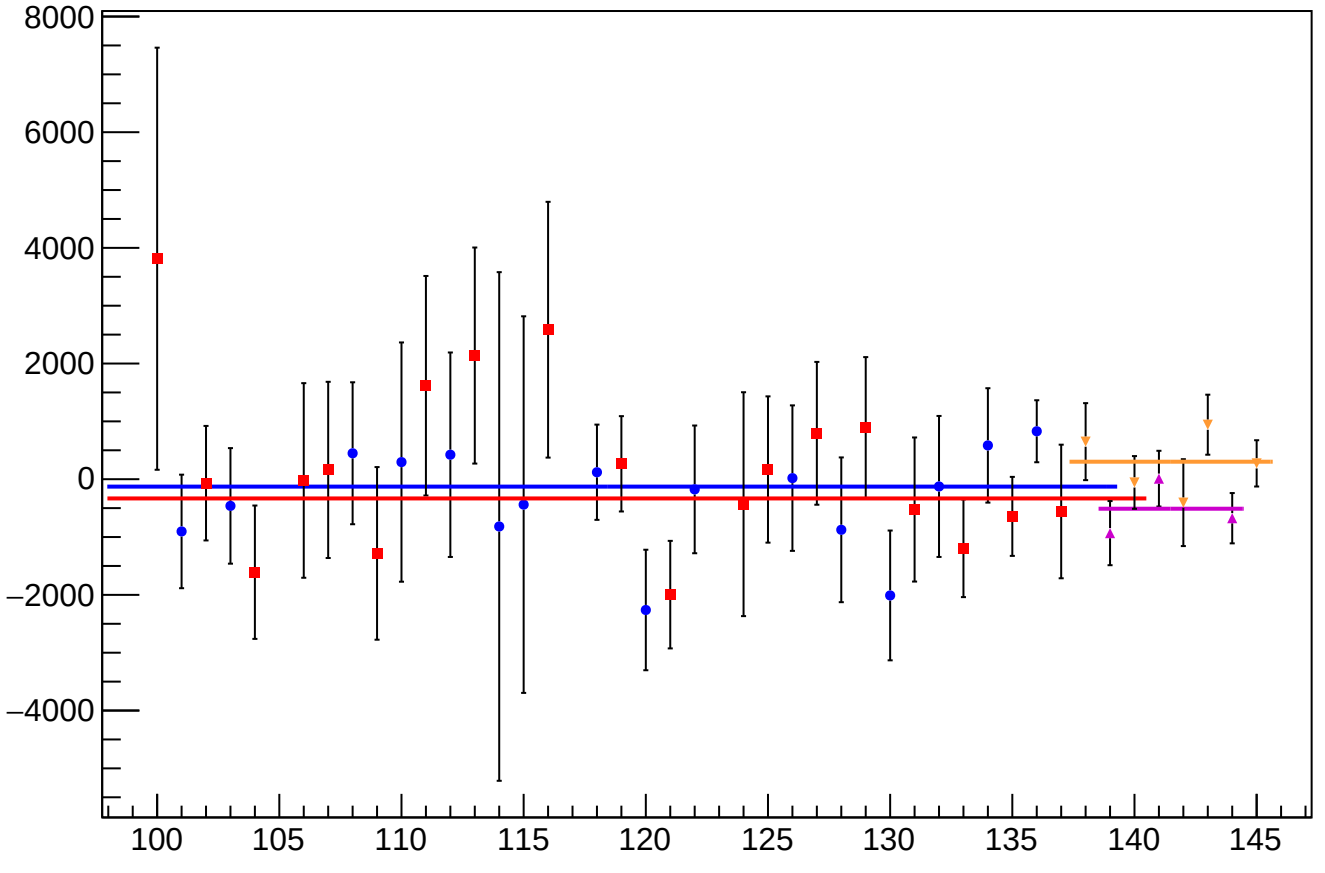
Right: 106.625+/-0.020 $\chi^2$/NDF: 760343.1/34

In: 93.173+/-0.022 $\chi^2$/NDF:893904.4/18

Out: 92.870+/-0.020 $\chi^2$/NDF:1069361.0/23

All: 93.012+/-0.015 $\chi^2$/NDF: 1963371.0/42

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: 302.540+/-230.658 $\chi^2$/NDF:3.3/4

Right Out: -332.665+/-270.835 $\chi^2$/NDF: 14.7/18

Left In: -510.402+/-278.967 $\chi^2$/NDF:1.9/2

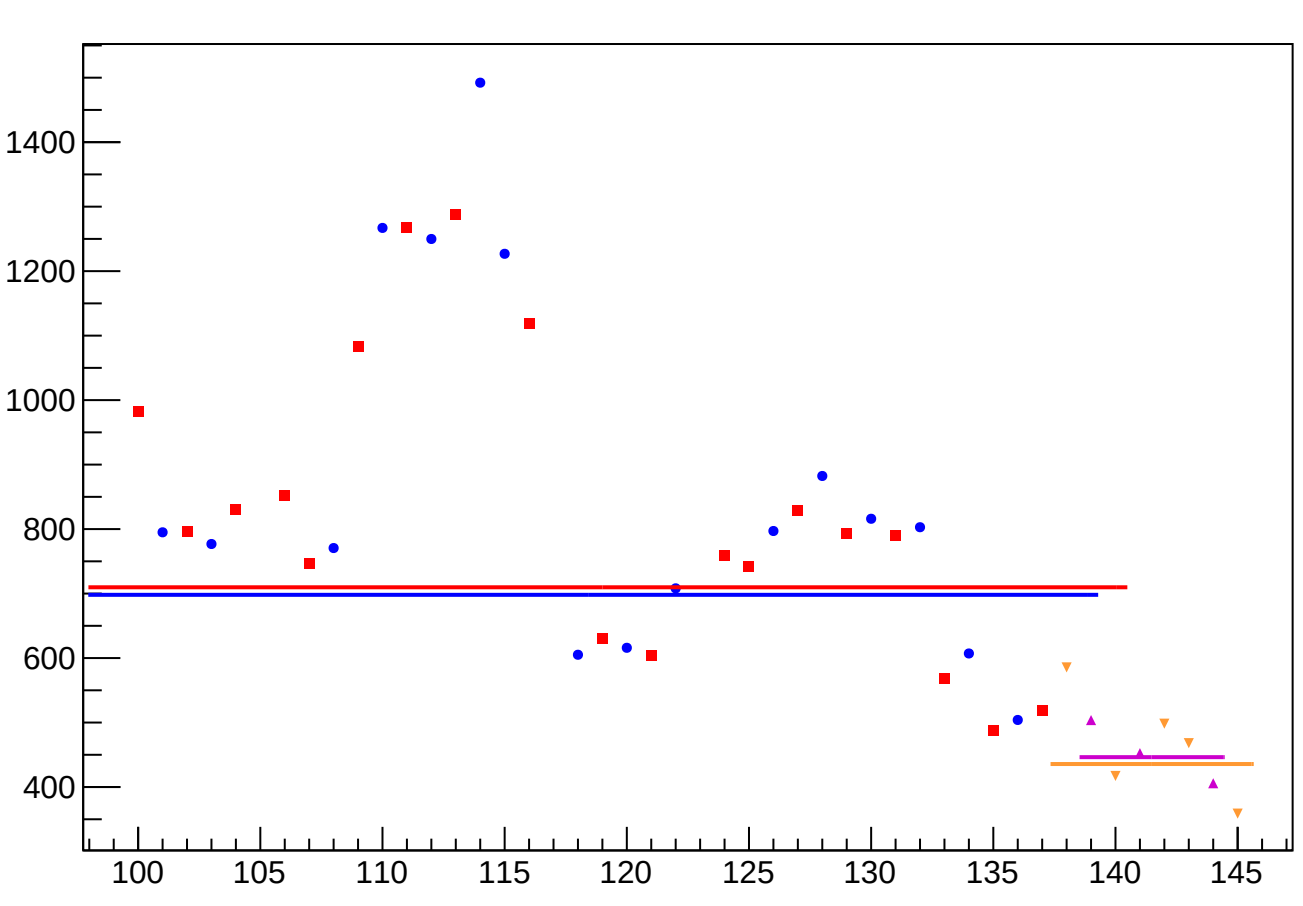
Left: -27.556+/-177.764 $\chi^2$/NDF: 10.2/7

Right: -229.512+/-190.718 $\chi^2$/NDF: 27.3/34

In: -311.996+/-193.494 $\chi^2$/NDF:15.2/18

Out: 35.502+/-175.604 $\chi^2$/NDF:21.2/23

All: -121.443+/-130.037 $\chi^2$/NDF: 38.1/42




Right In: 698.055+/-0.190 $\chi^2$/NDF: 912861.2/15

Left Out: 435.678+/-0.163 $\chi^2$/NDF:200134.8/4

Right Out: 709.748+/-0.192 $\chi^2$/NDF: 1027114.2/18

Left In: 446.331+/-0.197 $\chi^2$/NDF:39164.4/2

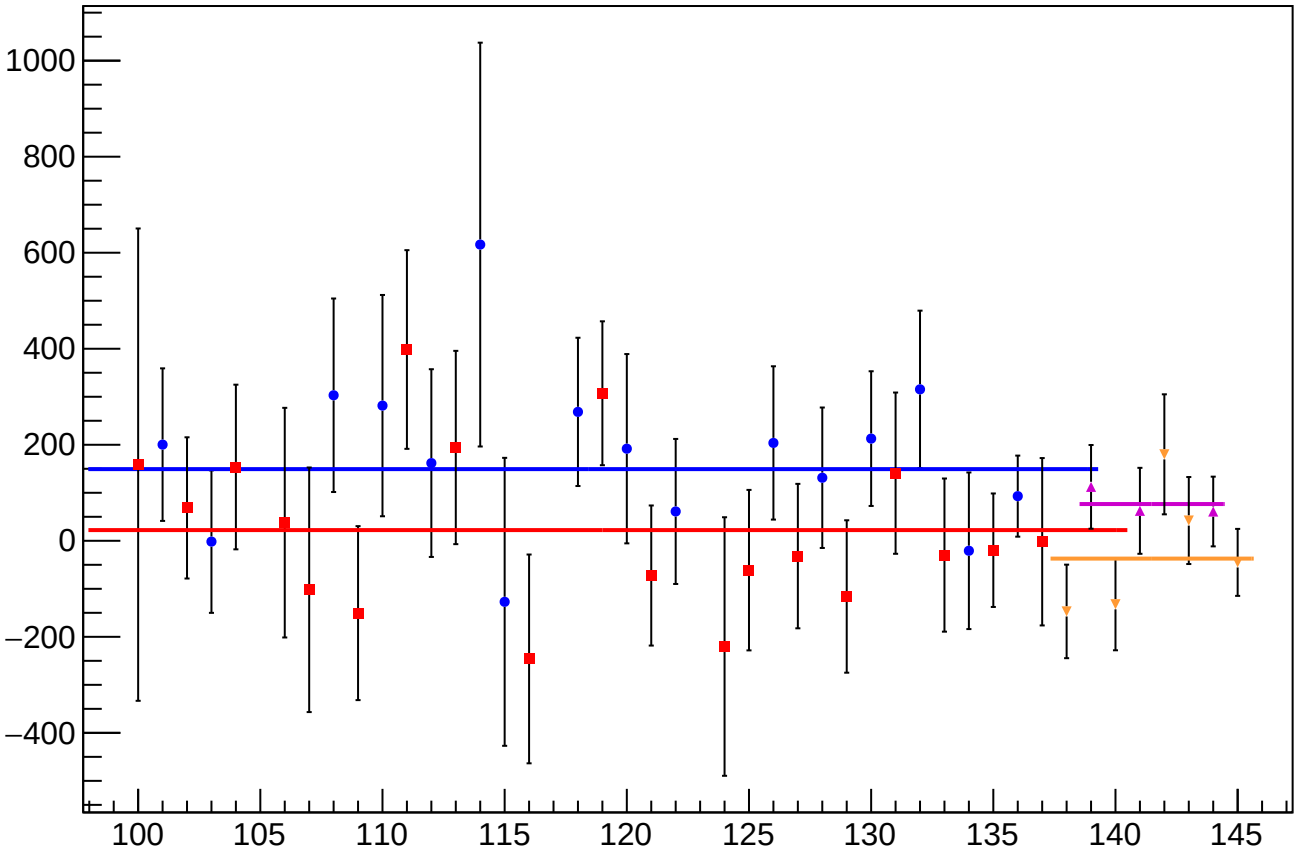
Left: 440.004+/-0.126 $\chi^2$/NDF: 241031.5/7

Right: 703.854+/-0.135 $\chi^2$/NDF: 1941854.8/34

In: 576.952+/-0.137 $\chi^2$/NDF:1797034.4/18

Out: 550.896+/-0.124 $\chi^2$/NDF:2414315.7/23

All: 562.664+/-0.092 $\chi^2$/NDF: 4231236.9/42




Right In: 149.294+/-39.687 $\chi^2$/NDF: 8.0/15

Left Out: -37.073+/-40.638 $\chi^2$/NDF:6.1/4

Right Out: 22.297+/-40.123 $\chi^2$/NDF: 14.2/18

Left In: 76.555+/-47.341 $\chi^2$/NDF:0.2/2

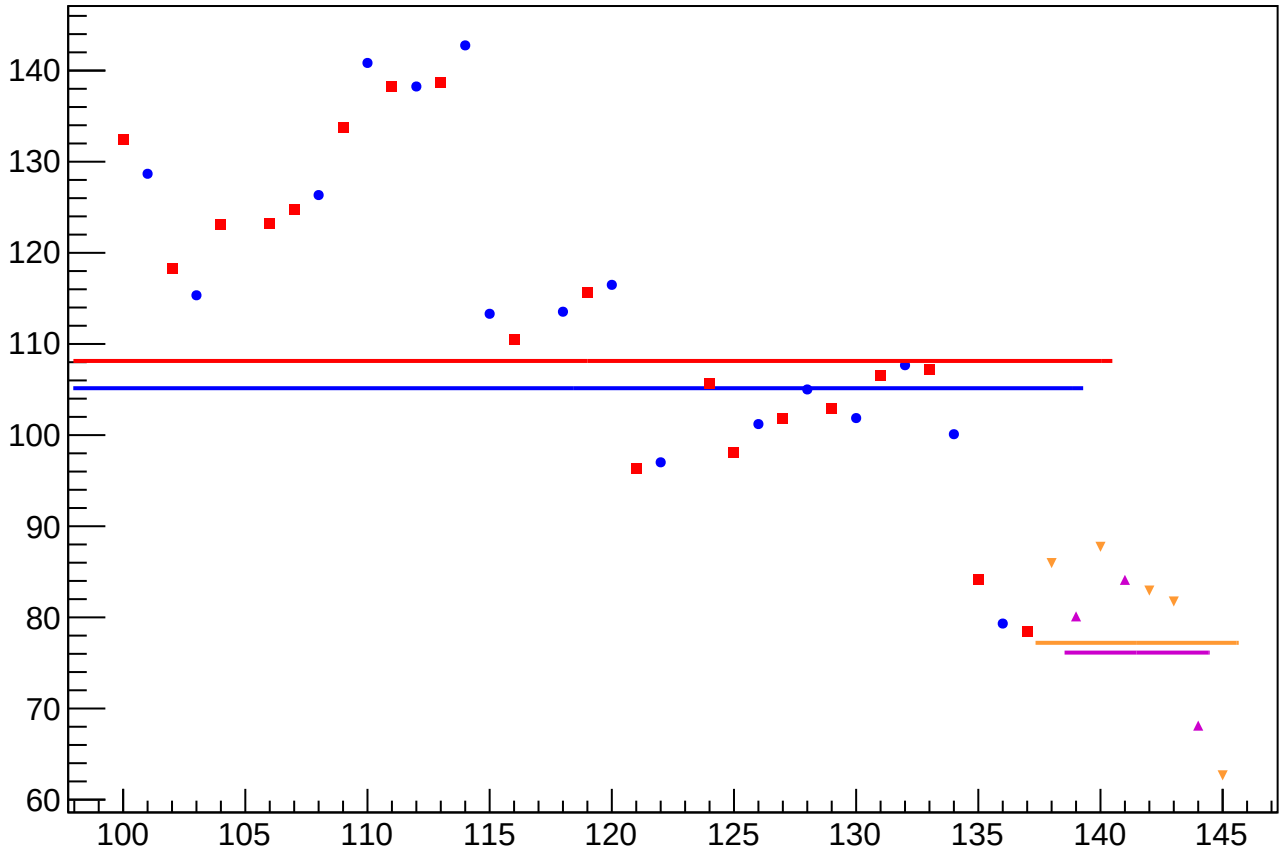
Left: 11.133+/-30.835 $\chi^2$/NDF: 9.6/7

Right: 86.488+/-28.216 $\chi^2$/NDF: 27.3/34

In: 119.273+/-30.414 $\chi^2$/NDF:9.6/18

Out: -7.009+/-28.551 $\chi^2$/NDF:21.3/23

All: 52.147+/-20.816 $\chi^2$/NDF: 40.2/42




Right In: 105.146+/-0.028 $\chi^2$/NDF: 408406.5/15

Left Out: 77.208+/-0.029 $\chi^2$/NDF:136412.8/4

Right Out: 108.136+/-0.028 $\chi^2$/NDF: 346321.9/18

Left In: 76.135+/-0.033 $\chi^2$/NDF:44419.2/2

Left: 76.753+/-0.022 $\chi^2$/NDF: 181423.3/7

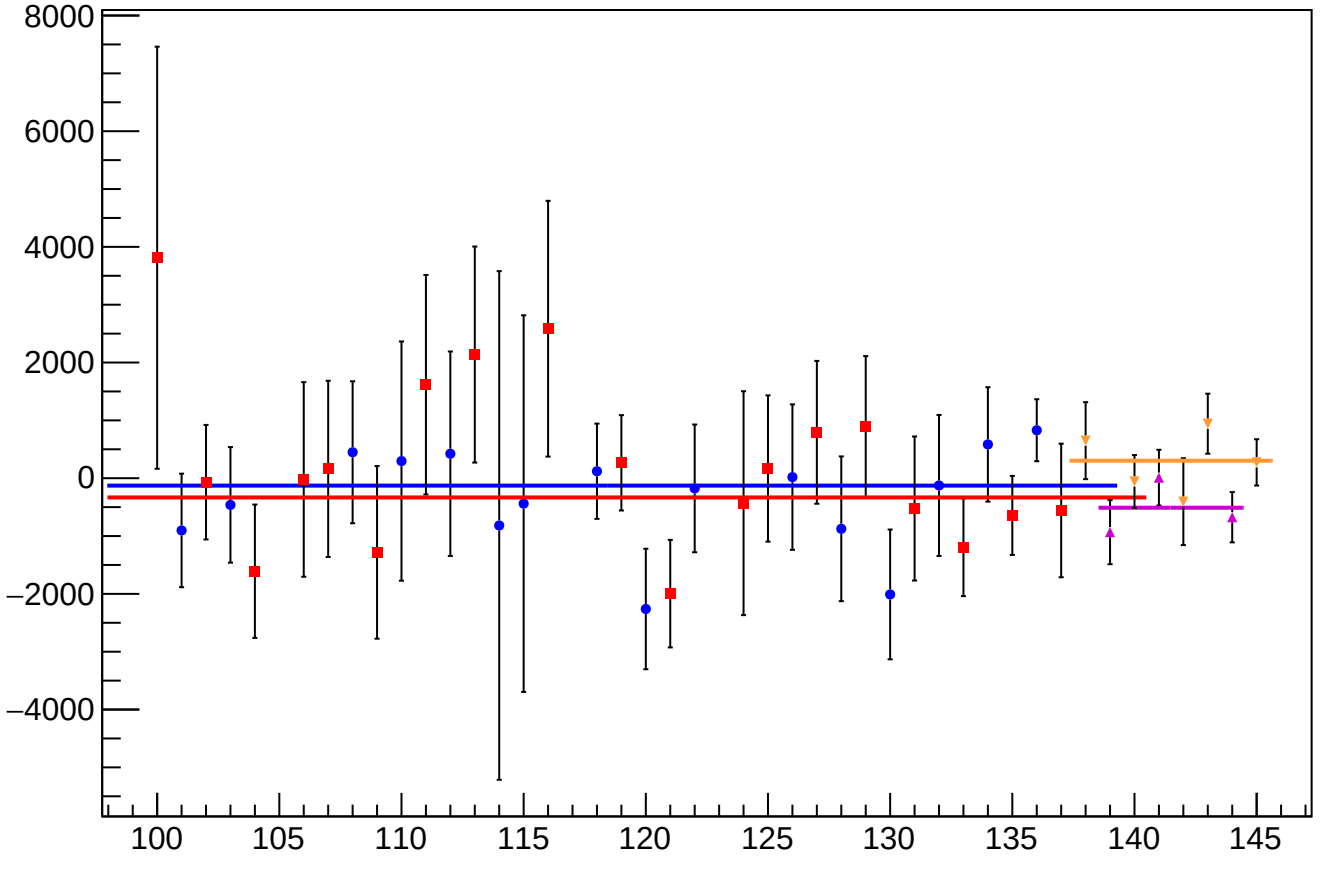
Right: 106.625+/-0.020 $\chi^2$/NDF: 760343.1/34

In: 93.173+/-0.022 $\chi^2$/NDF:893904.4/18

Out: 92.870+/-0.020 $\chi^2$/NDF:1069361.0/23

All: 93.012+/-0.015 $\chi^2$/NDF: 1963371.0/42

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: 302.540+/-230.658 $\chi^2$/NDF:3.3/4

Right Out: -332.665+/-270.835 $\chi^2$/NDF: 14.7/18

Left In: -510.402+/-278.967 $\chi^2$/NDF:1.9/2

Left: -27.556+/-177.764 $\chi^2$/NDF: 10.2/7

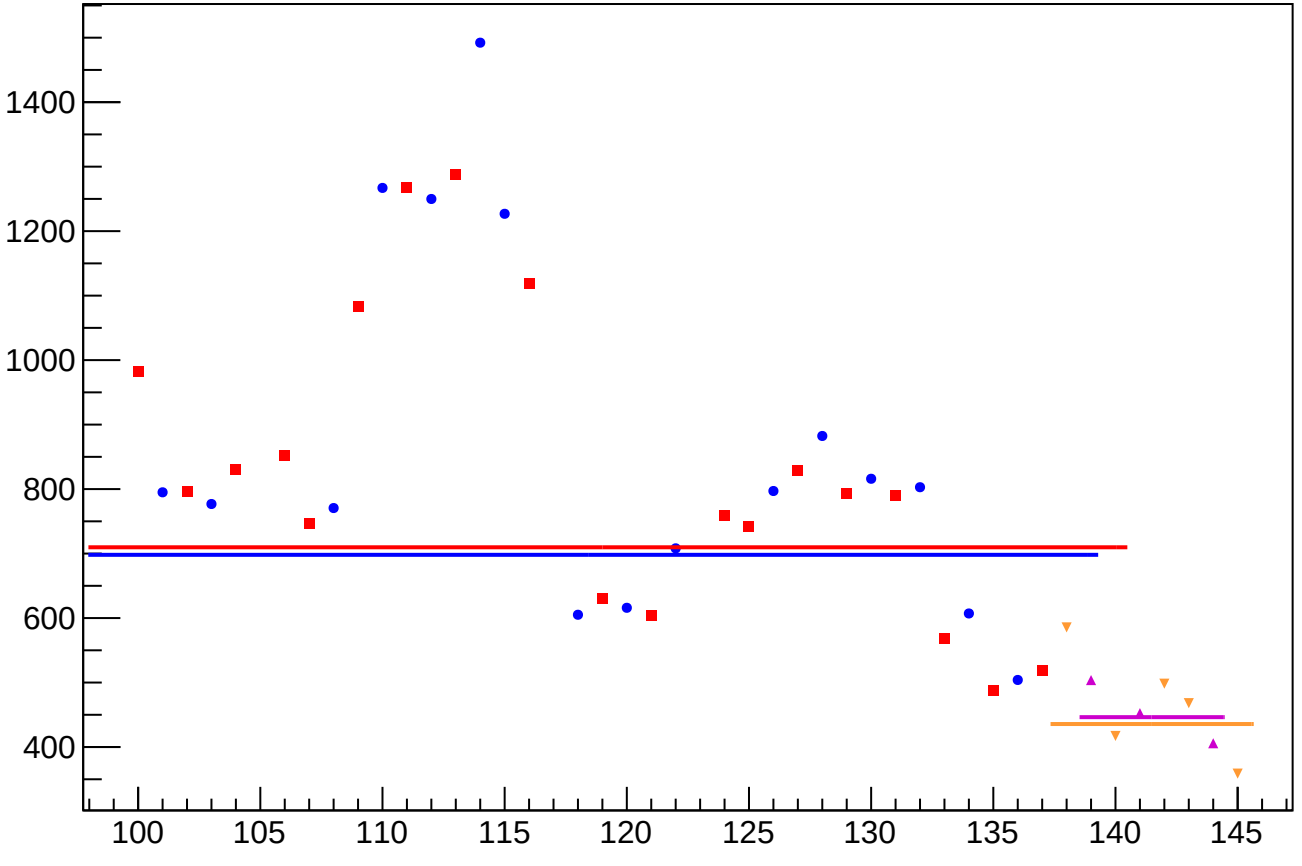
Right: -229.512+/-190.718 $\chi^2$/NDF: 27.3/34

In: -311.996+/-193.494 $\chi^2$/NDF:15.2/18

Out: 35.502+/-175.604 $\chi^2$/NDF:21.2/23

All: -121.443+/-130.037 $\chi^2$/NDF: 38.1/42

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: 435.678+/-0.163 $\chi^2$/NDF:200134.8/4

Right Out: 709.748+/-0.192 $\chi^2$/NDF: 1027114.2/18

Left In: 446.331+/-0.197 $\chi^2$/NDF:39164.4/2

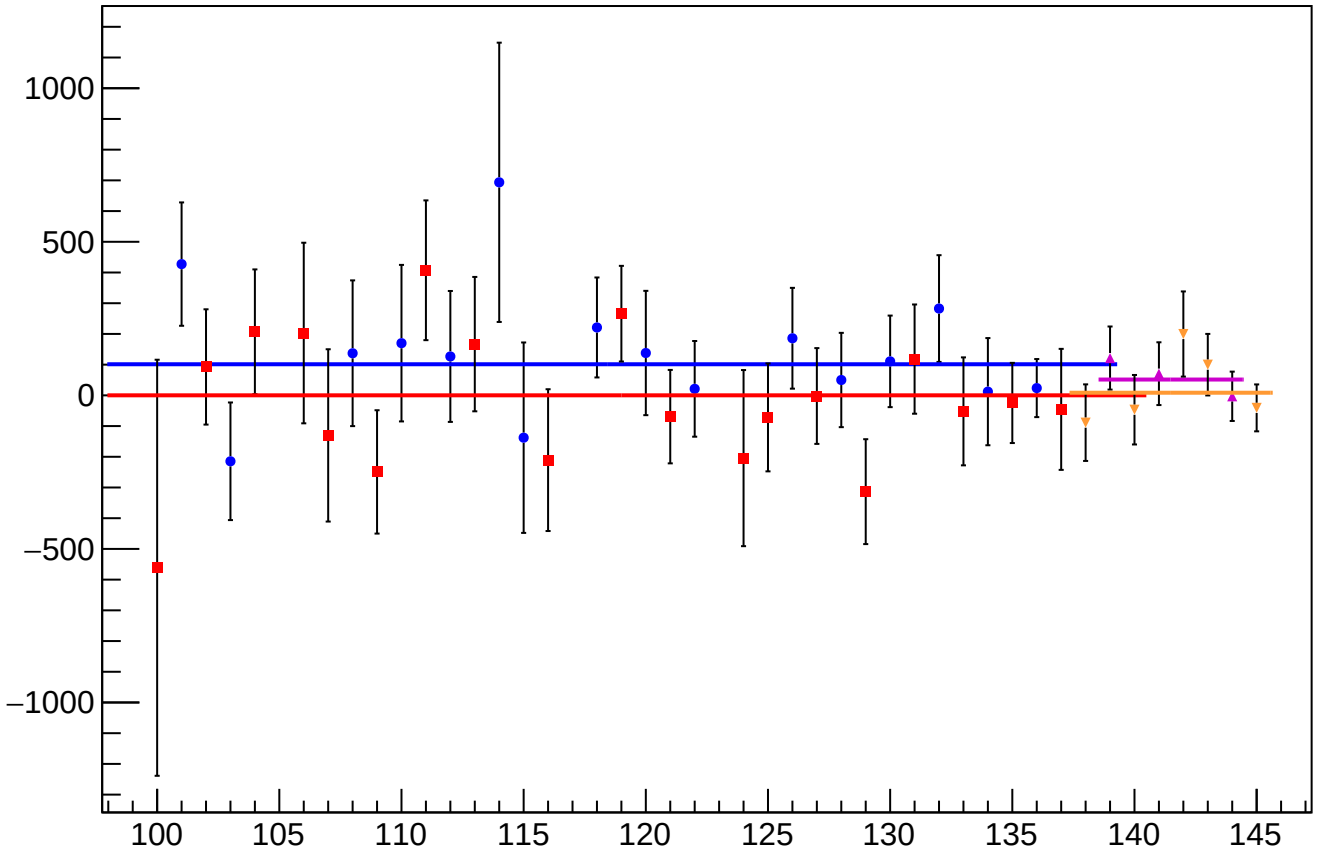
Left: 440.004+/-0.126 $\chi^2$/NDF: 241031.5/7

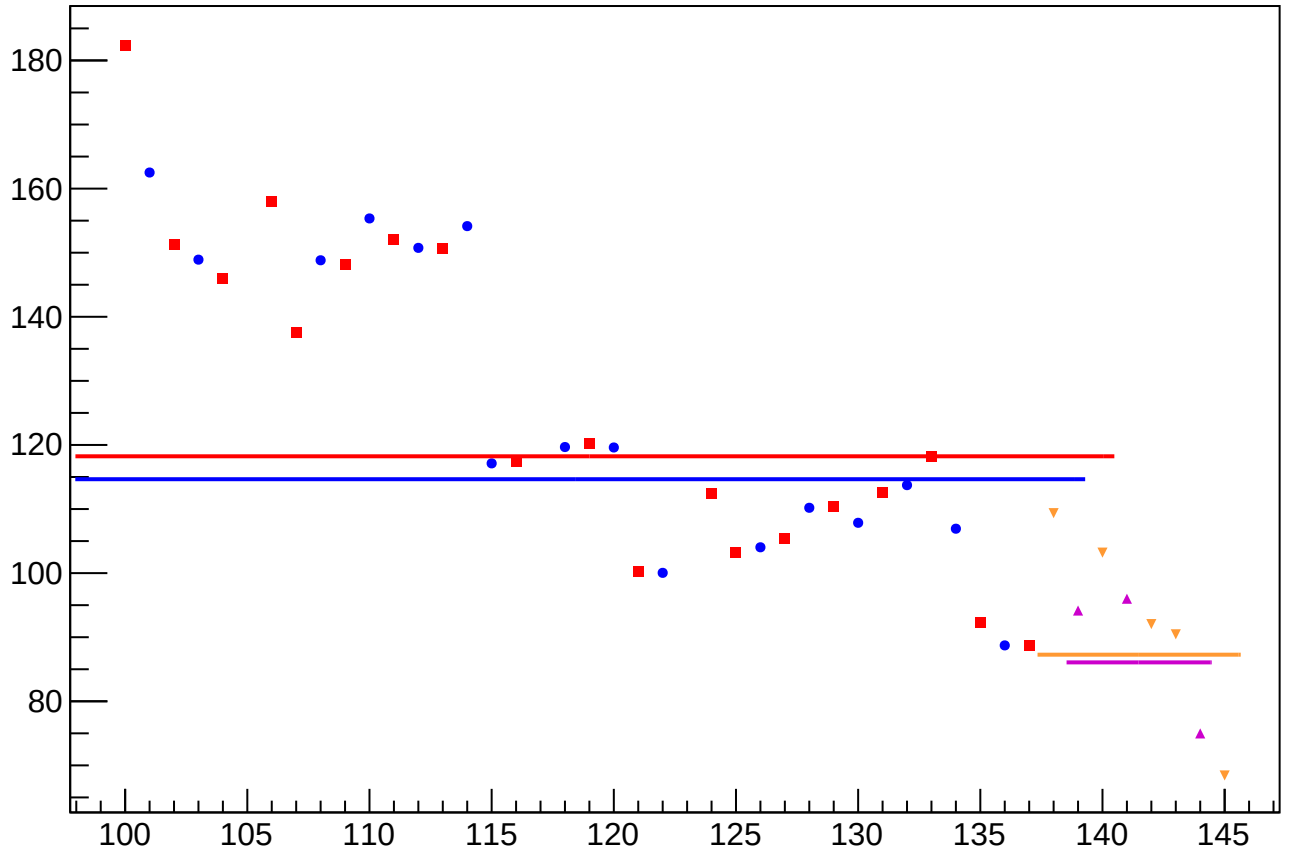
Right: 703.854+/-0.135 $\chi^2$/NDF: 1941854.8/34

In: 576.952+/-0.137 $\chi^2$/NDF:1797034.4/18

Out: 550.896+/-0.124 $\chi^2$/NDF:2414315.7/23

All: 562.664+/-0.092 $\chi^2$/NDF: 4231236.9/42


dit_asym_sam_26_48_dd_mean vs Slug, Sign Corrected
1000
500
0
−500
−1000
100
105
110
115
120
125
130
135
140
145
Right In: 101.281+/-43.510 χ²/NDF: 11.0/15
Left Out: 8.554+/-46.348 χ²/NDF:4.0/4
Right Out: 0.125+/-44.035 χ²/NDF: 16.6/18
Left In: 51.498+/-53.797 χ²/NDF:1.0/2
Left: 26.849+/-35.114 χ²/NDF: 5.3/7
Right: 51.310+/-30.950 χ²/NDF: 30.3/34
In: 81.594+/-33.830 χ²/NDF:12.5/18
Out: 4.124+/-31.924 χ²/NDF:20.6/23
All: 40.615+/-23.218 χ²/NDF: 35.9/42




Right In: 114.655+/-0.031 $\chi^2$/NDF: 531976.2/15

Left Out: 87.274+/-0.033 $\chi^2$/NDF:228489.8/4

Right Out: 118.230+/-0.031 $\chi^2$/NDF: 483407.4/18

Left In: 86.071+/-0.038 $\chi^2$/NDF:69399.3/2

Left: 86.761+/-0.025 $\chi^2$/NDF: 298462.4/7

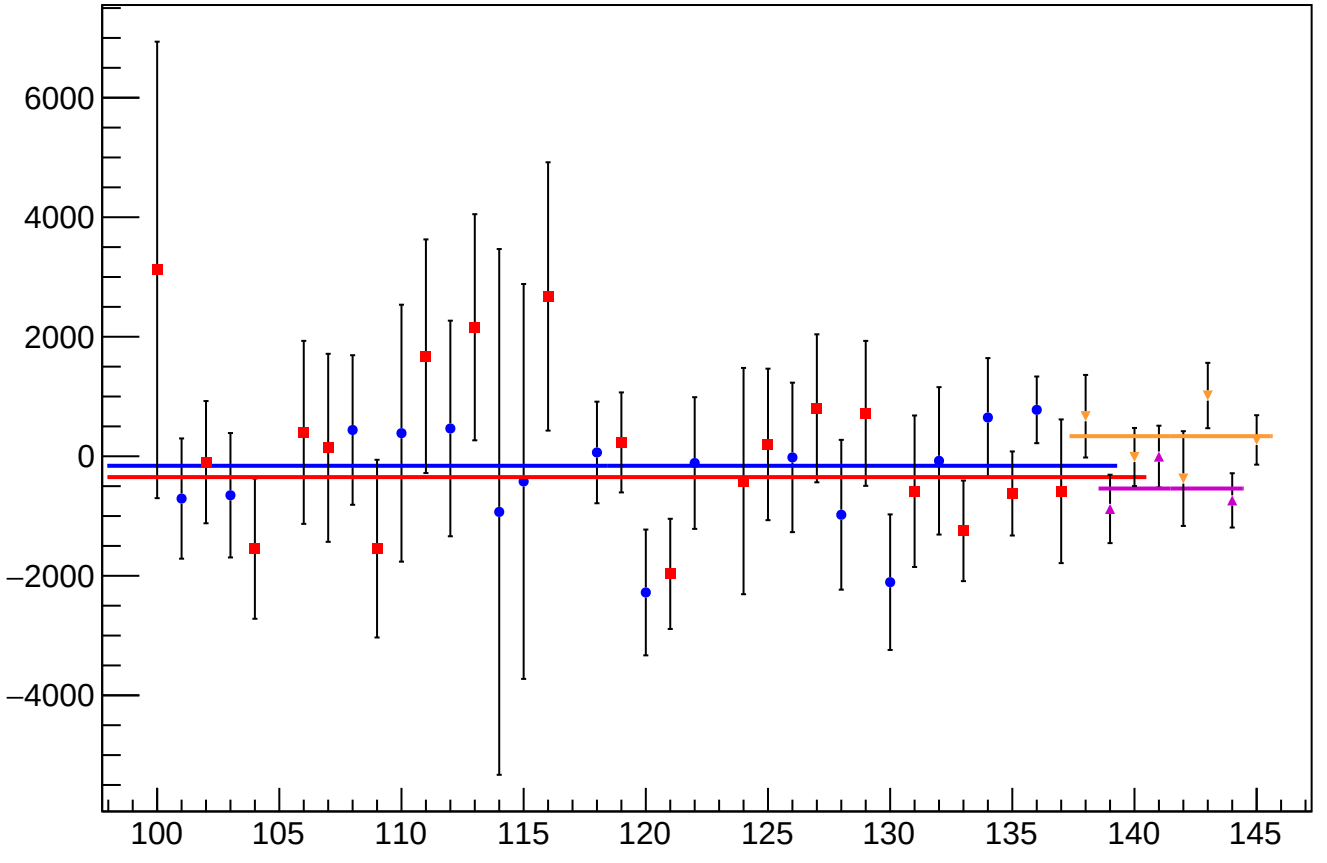
Right: 116.421+/-0.022 $\chi^2$/NDF: 1022057.2/34

In: 103.351+/-0.024 $\chi^2$/NDF:942699.5/18

Out: 103.544+/-0.023 $\chi^2$/NDF:1180833.2/23

All: 103.453+/-0.016 $\chi^2$/NDF: 2123566.9/42

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: 336.523+/-241.816 $\chi^2$/NDF:3.1/4

Right Out: -348.528+/-273.595 $\chi^2$/NDF: 14.3/18

Left In: -539.669+/-293.006 $\chi^2$/NDF:1.6/2

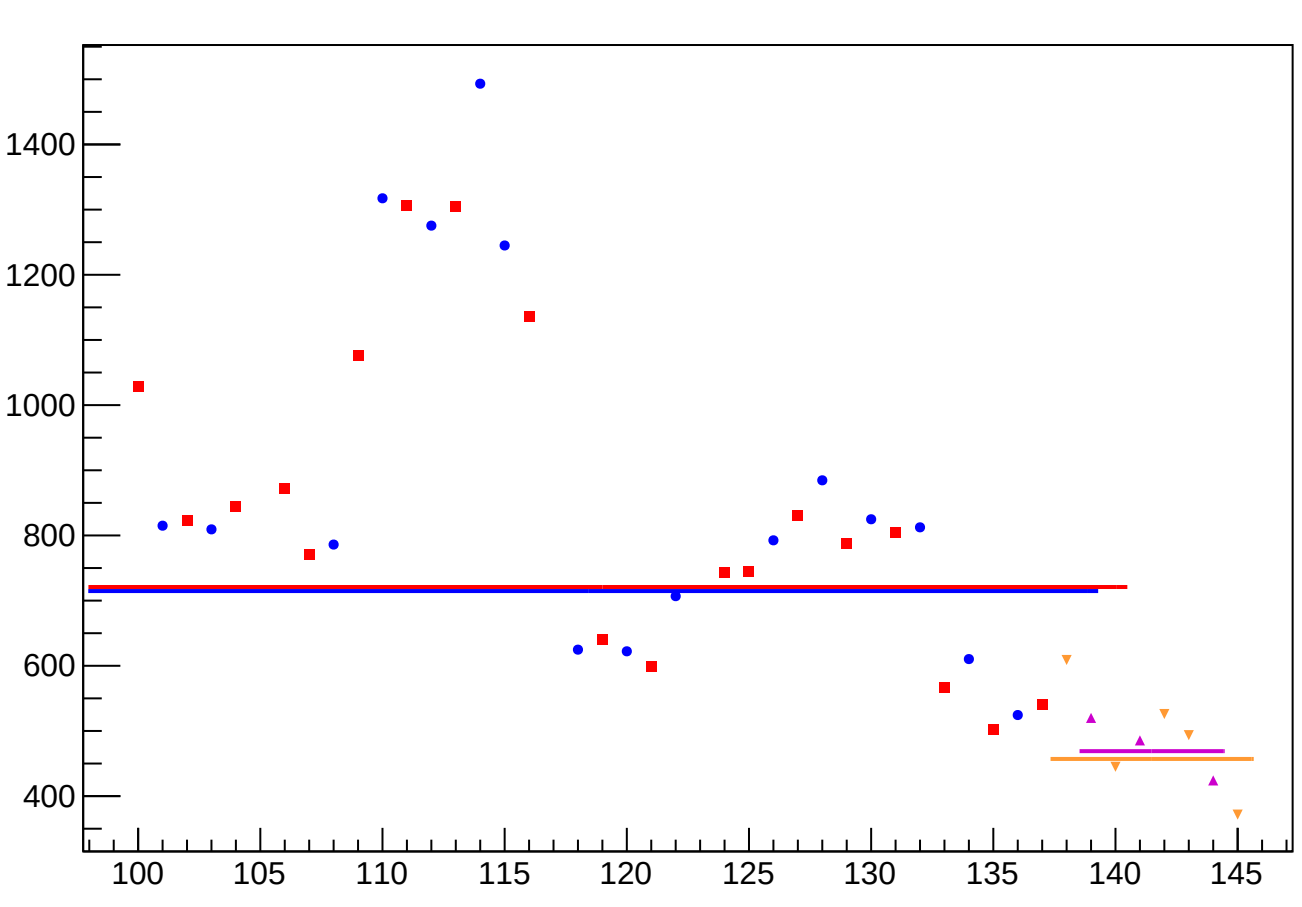
Left: -18.469+/-186.503 $\chi^2$/NDF: 10.1/7

Right: -254.152+/-193.800 $\chi^2$/NDF: 26.5/34

In: -337.032+/-200.346 $\chi^2$/NDF:14.5/18

Out: 36.077+/-181.188 $\chi^2$/NDF:20.9/23

All: -131.790+/-134.383 $\chi^2$/NDF: 37.3/42




Right In: 714.666+/-0.194 $\chi^2$/NDF: 876217.1/15

Left Out: 457.051+/-0.171 $\chi^2$/NDF:207061.2/4

Right Out: 720.885+/-0.193 $\chi^2$/NDF: 1018435.1/18

Left In: 469.008+/-0.207 $\chi^2$/NDF:37501.2/2

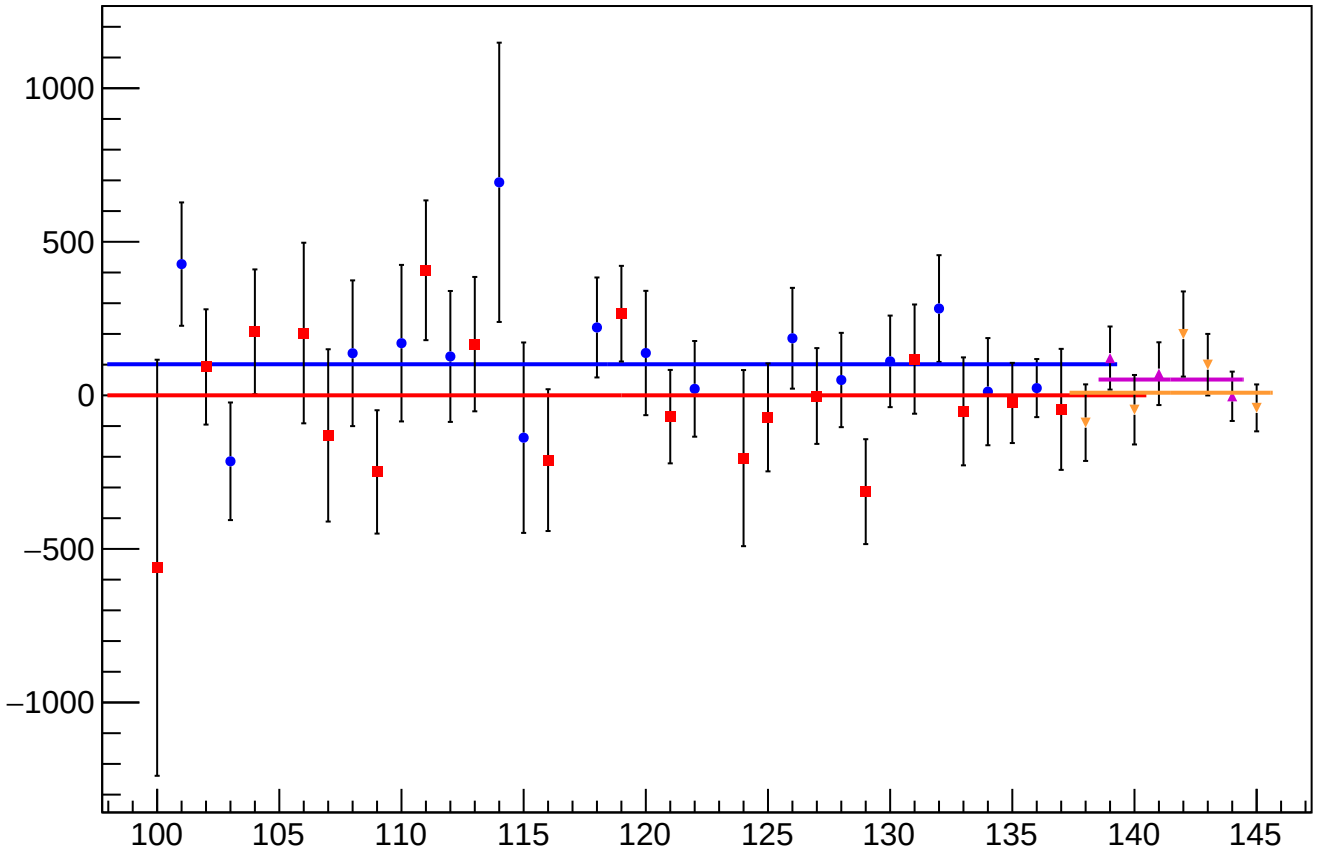
Left: 461.896+/-0.132 $\chi^2$/NDF: 246543.4/7

Right: 717.786+/-0.137 $\chi^2$/NDF: 1895167.0/34

In: 599.814+/-0.142 $\chi^2$/NDF:1662292.2/18

Out: 572.762+/-0.128 $\chi^2$/NDF:2269649.3/23

All: 584.933+/-0.095 $\chi^2$/NDF: 3951999.7/42




Right In: 101.278+/-43.510 $\chi^2$/NDF: 11.0/15

Left Out: 8.553+/-46.348 $\chi^2$/NDF:4.0/4

Right Out: 0.125+/-44.035 $\chi^2$/NDF: 16.6/18

Left In: 51.497+/-53.797 $\chi^2$/NDF:1.0/2

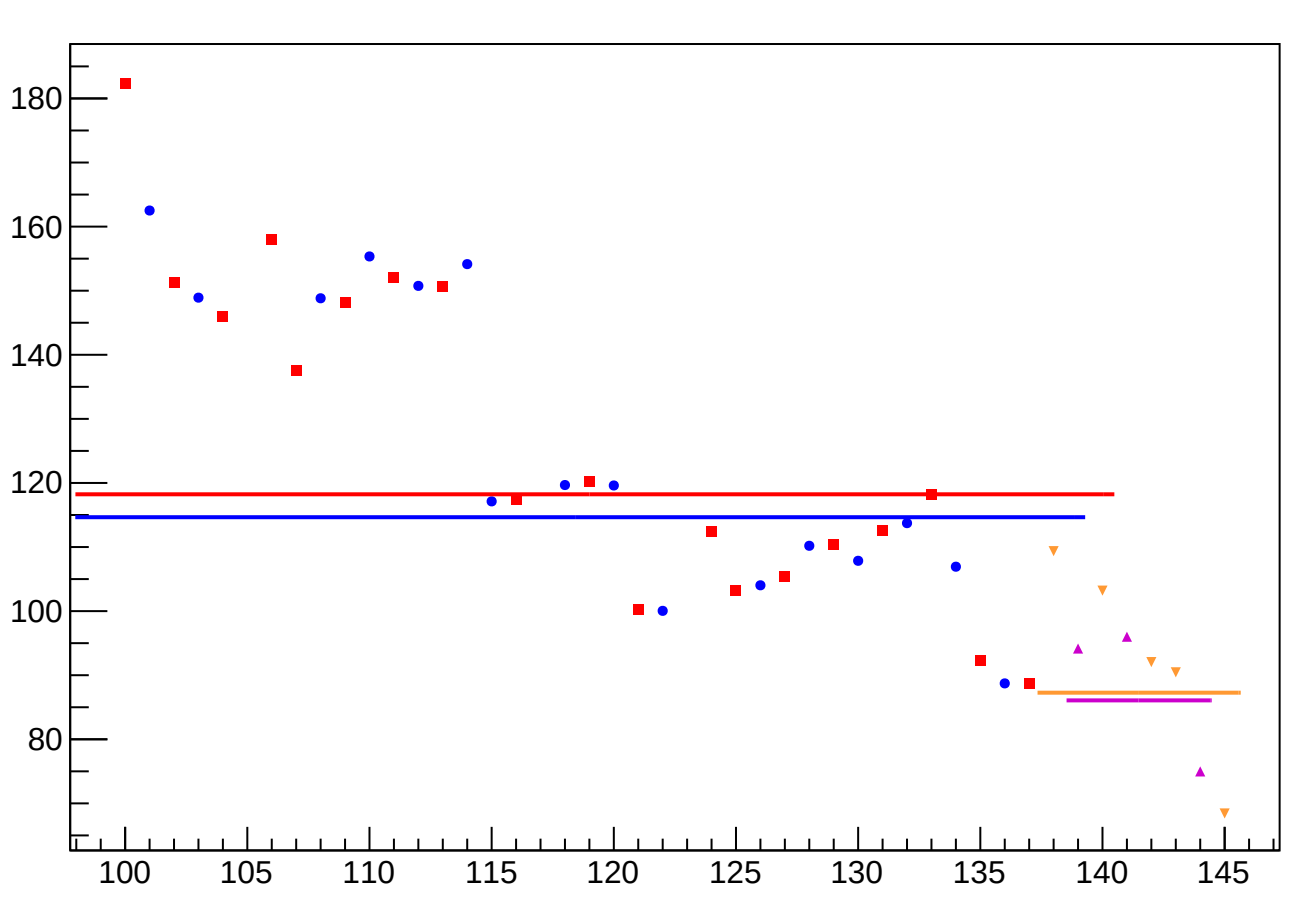
Left: 26.848+/-35.114 $\chi^2$/NDF: 5.3/7

Right: 51.308+/-30.950 $\chi^2$/NDF: 30.3/34

In: 81.593+/-33.830 $\chi^2$/NDF:12.5/18

Out: 4.123+/-31.924 $\chi^2$/NDF:20.6/23

All: 40.614+/-23.218 $\chi^2$/NDF: 35.9/42




Right In: 114.655+/-0.031 $\chi^2$/NDF: 531962.9/15

Left Out: 87.274+/-0.033 $\chi^2$/NDF:228494.0/4

Right Out: 118.230+/-0.031 $\chi^2$/NDF: 483401.1/18

Left In: 86.072+/-0.038 $\chi^2$/NDF:69399.9/2

Left: 86.762+/-0.025 $\chi^2$/NDF: 298467.1/7

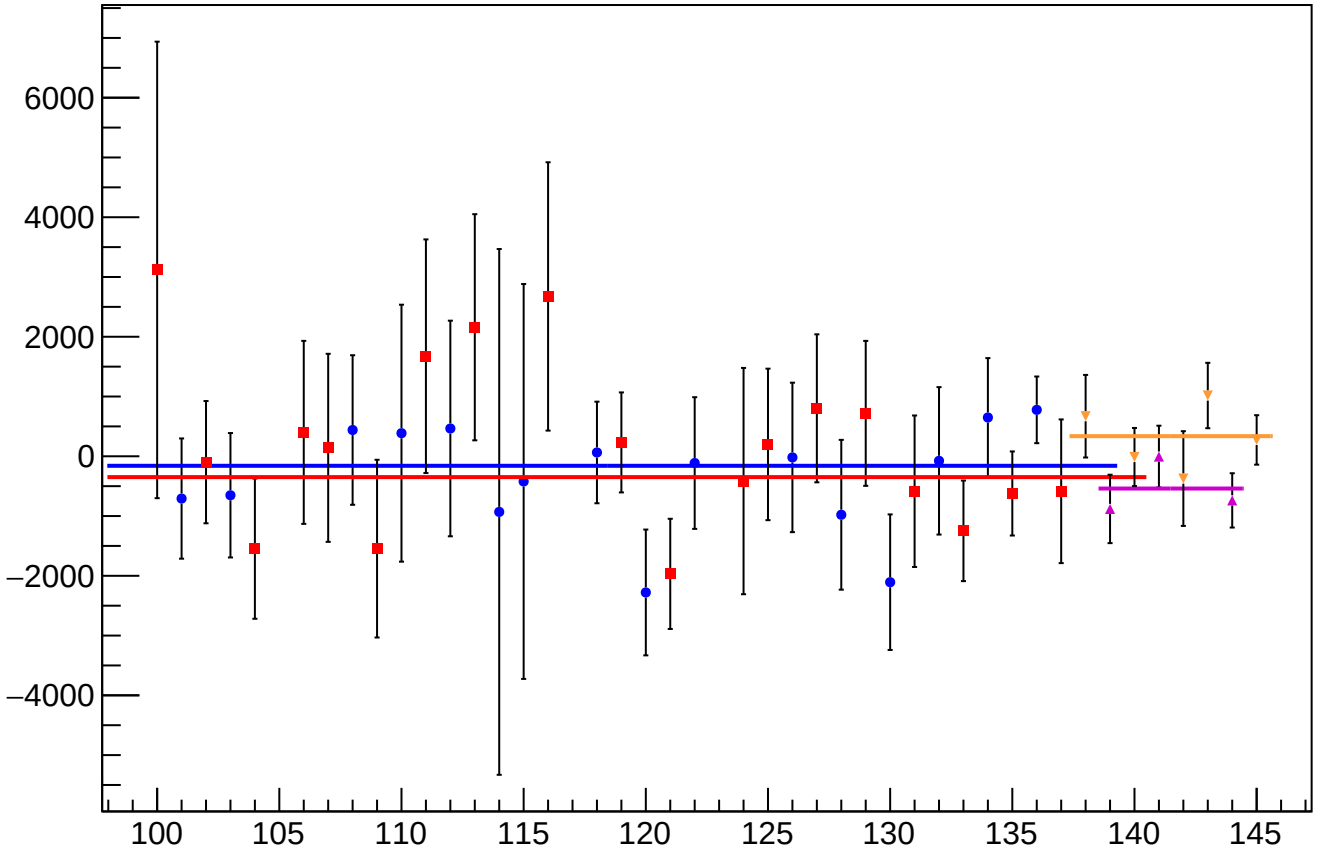
Right: 116.421+/-0.022 $\chi^2$/NDF: 1022036.9/34

In: 103.352+/-0.024 $\chi^2$/NDF:942688.0/18

Out: 103.544+/-0.023 $\chi^2$/NDF:1180830.9/23

All: 103.453+/-0.016 $\chi^2$/NDF: 2123553.1/42

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: 336.522+/-241.816 $\chi^2$/NDF:3.1/4

Right Out: -348.528+/-273.595 $\chi^2$/NDF: 14.3/18

Left In: -539.669+/-293.007 $\chi^2$/NDF:1.6/2

Left: -18.470+/-186.503 $\chi^2$/NDF: 10.1/7

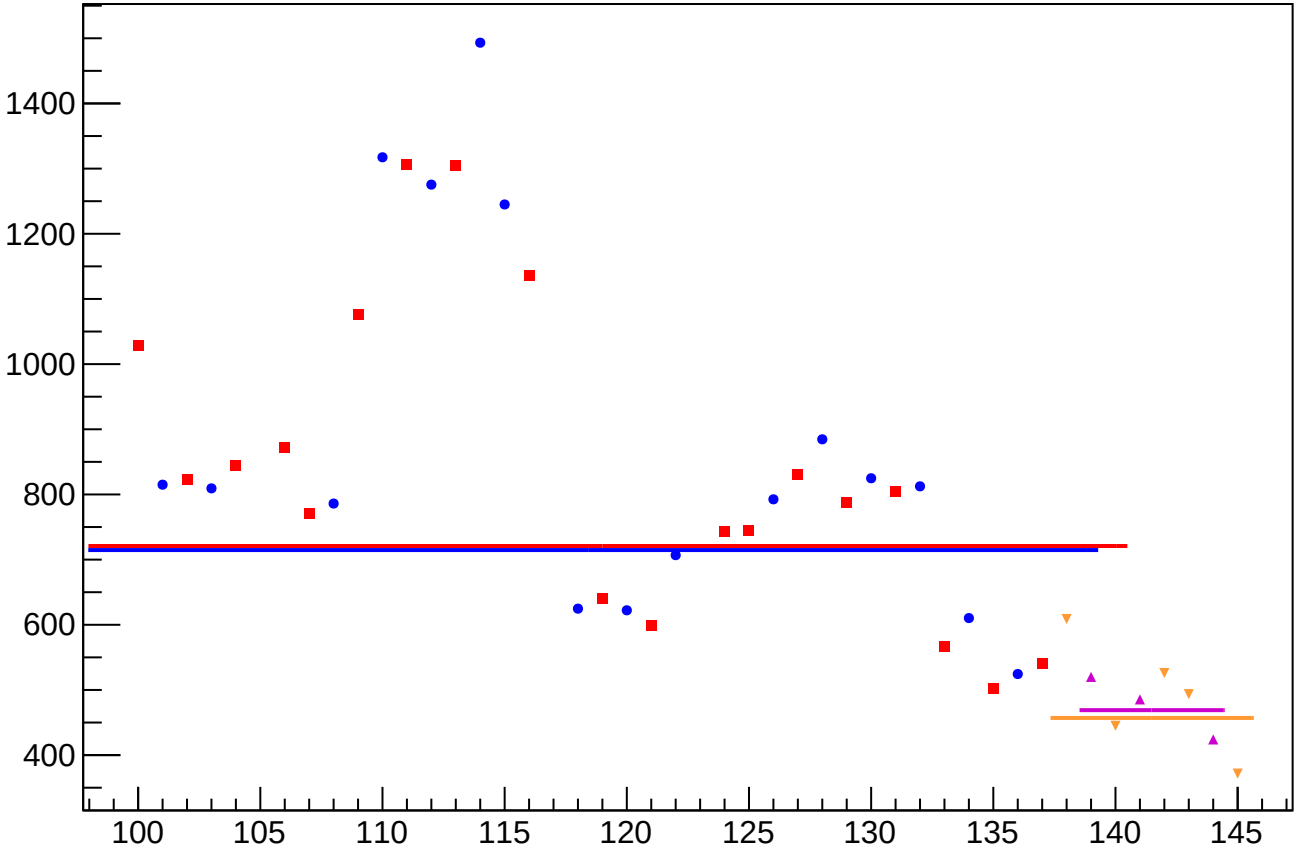
Right: -254.153+/-193.800 $\chi^2$/NDF: 26.5/34

In: -337.033+/-200.346 $\chi^2$/NDF:14.5/18

Out: 36.076+/-181.188 $\chi^2$/NDF:20.9/23

All: -131.791+/-134.383 $\chi^2$/NDF: 37.3/42

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: 457.051+/-0.171 $\chi^2$/NDF:207064.5/4

Right Out: 720.884+/-0.193 $\chi^2$/NDF: 1018428.9/18

Left In: 469.008+/-0.207 $\chi^2$/NDF:37501.7/2

Left: 461.896+/-0.132 $\chi^2$/NDF: 246547.4/7

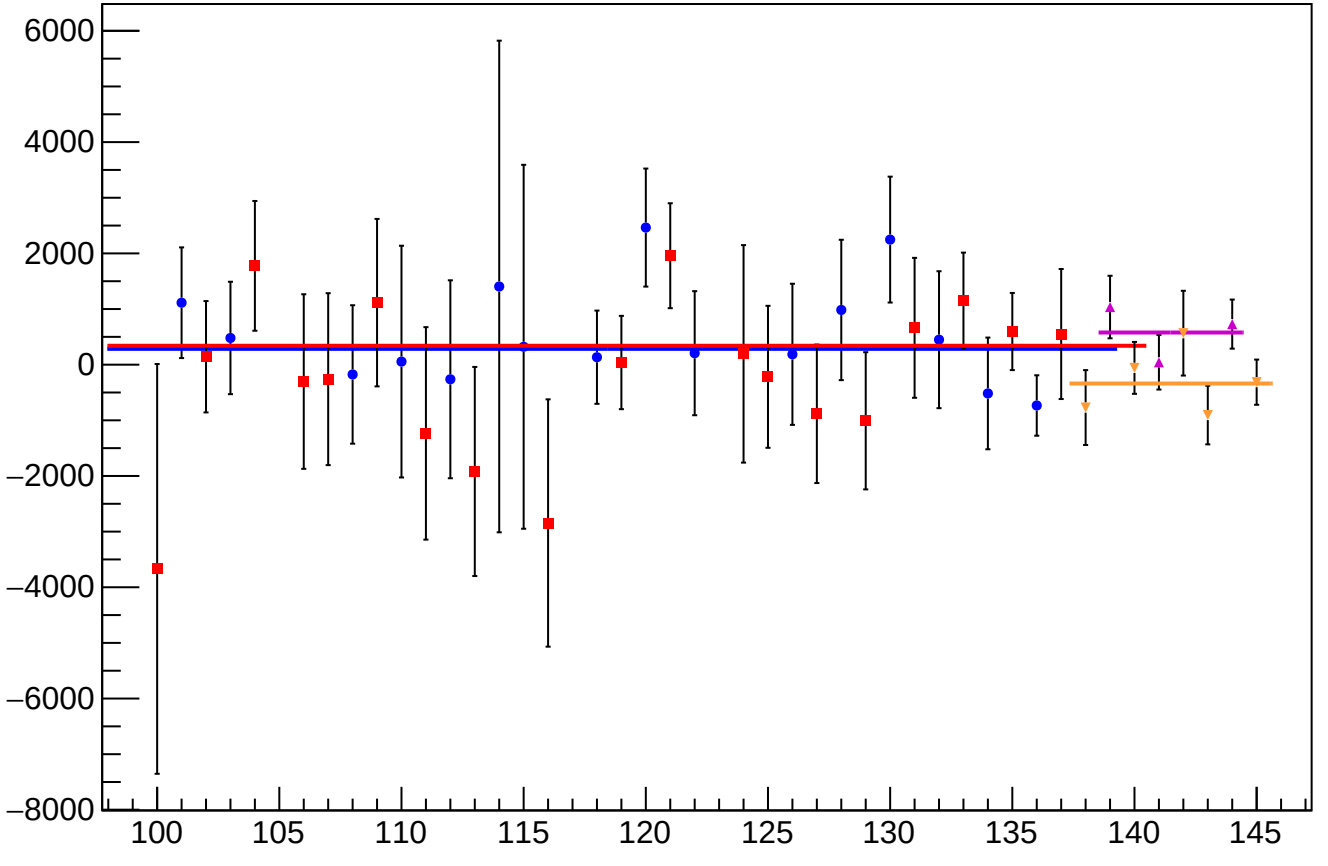
Right: 717.786+/-0.137 $\chi^2$/NDF: 1895155.0/34

In: 599.814+/-0.142 $\chi^2$/NDF:1662285.0/18

Out: 572.762+/-0.128 $\chi^2$/NDF:2269646.1/23

All: 584.933+/-0.095 $\chi^2$/NDF: 3951989.8/42

# asym_sam_26_48_dd_mean vs Slug, Sign Corrected




Right In: 284.780+/-271.944 $\chi^2$/NDF: 12.8/15

Left Out: -338.378+/-234.454 $\chi^2$/NDF:3.3/4

Right Out: 340.018+/-273.601 $\chi^2$/NDF: 14.1/18

Left In: 578.170+/-283.139 $\chi^2$/NDF:2.0/2

Left: 34.442+/-180.581 $\chi^2$/NDF: 11.5/7

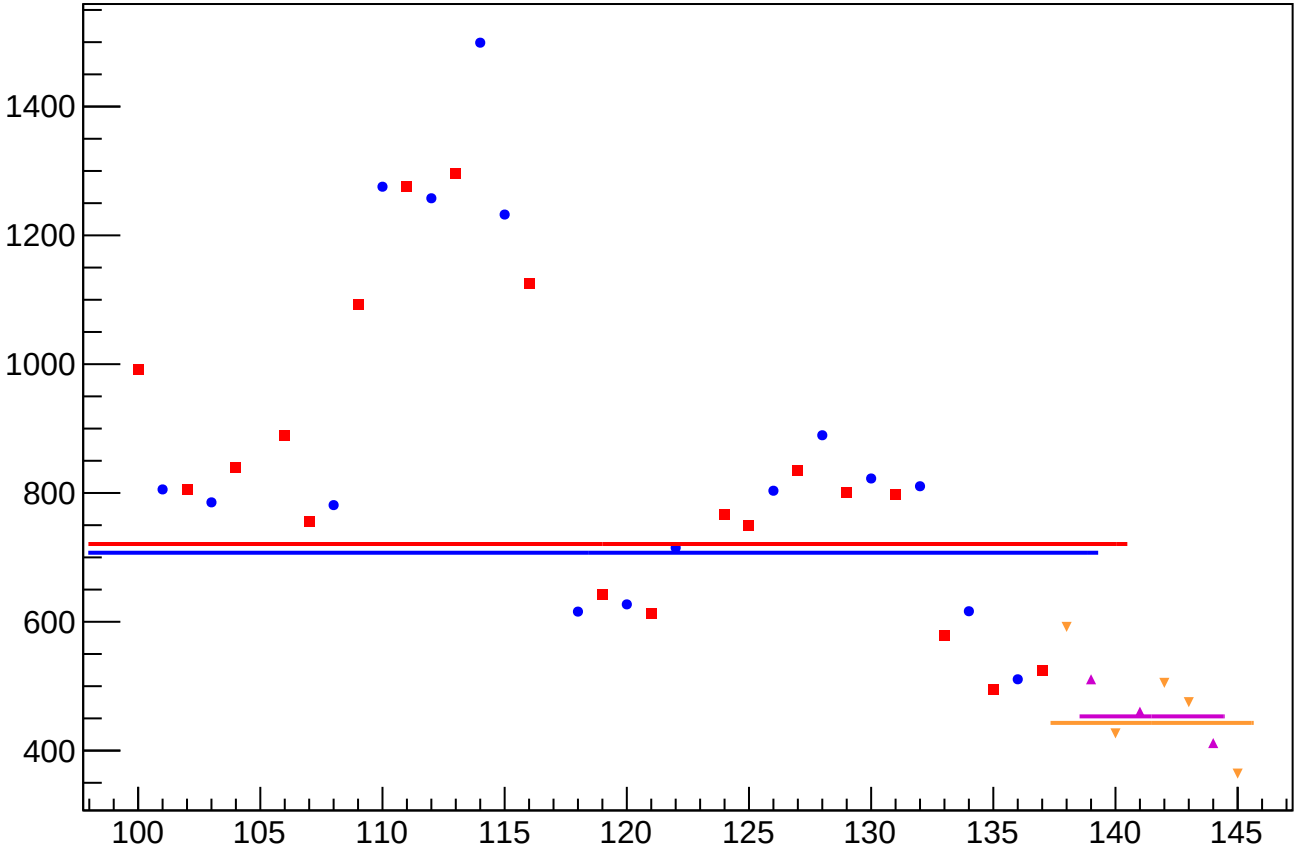
Right: 312.231+/-192.877 $\chi^2$/NDF: 26.9/34

In: 425.560+/-196.132 $\chi^2$/NDF:15.3/18

Out: -51.144+/-178.031 $\chi^2$/NDF:21.0/23

All: 164.200+/-131.823 $\chi^2$/NDF: 39.5/42

# asym_sam_26_48_dd_rms vs Slug, Sign Corrected




Right In: 707.209+/-0.192 $\chi^2$/NDF: 896689.9/15

Left Out: 443.010+/-0.166 $\chi^2$/NDF:196473.6/4

Right Out: 720.778+/-0.193 $\chi^2$/NDF: 1015277.9/18

Left In: 453.128+/-0.200 $\chi^2$/NDF:39123.4/2

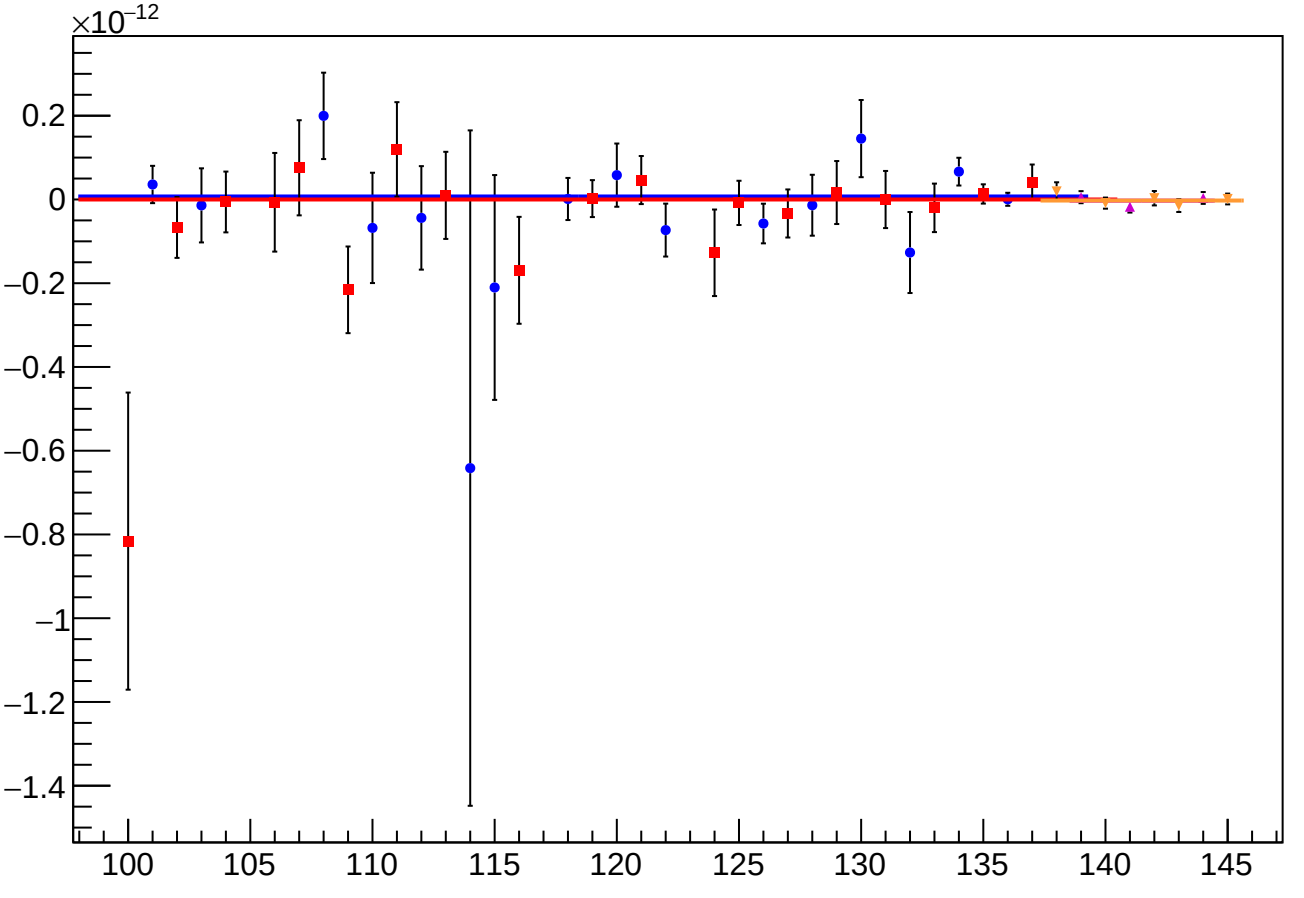
Left: 447.125+/-0.128 $\chi^2$/NDF: 237112.3/7

Right: 713.952+/-0.136 $\chi^2$/NDF: 1914442.0/34

In: 585.291+/-0.139 $\chi^2$/NDF:1773560.2/18

Out: 560.617+/-0.126 $\chi^2$/NDF:2400340.9/23

All: 571.763+/-0.093 $\chi^2$/NDF: 4191255.1/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.3/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.8/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.6/2

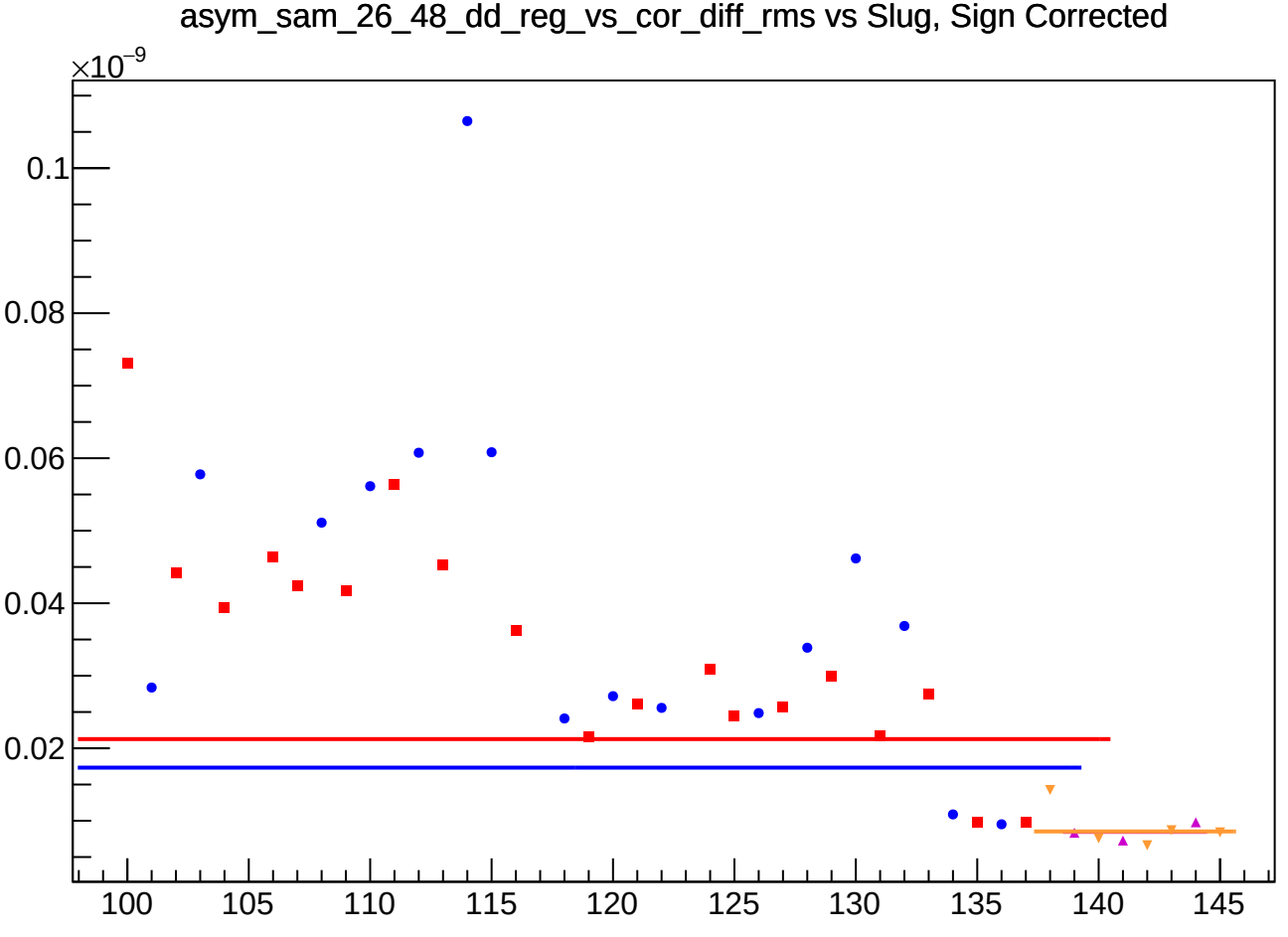
Left: -0.000+/-0.000 $\chi^2$/NDF: 3.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 35.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 39.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2368825.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:172182.1/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1671050.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:31916.3/2

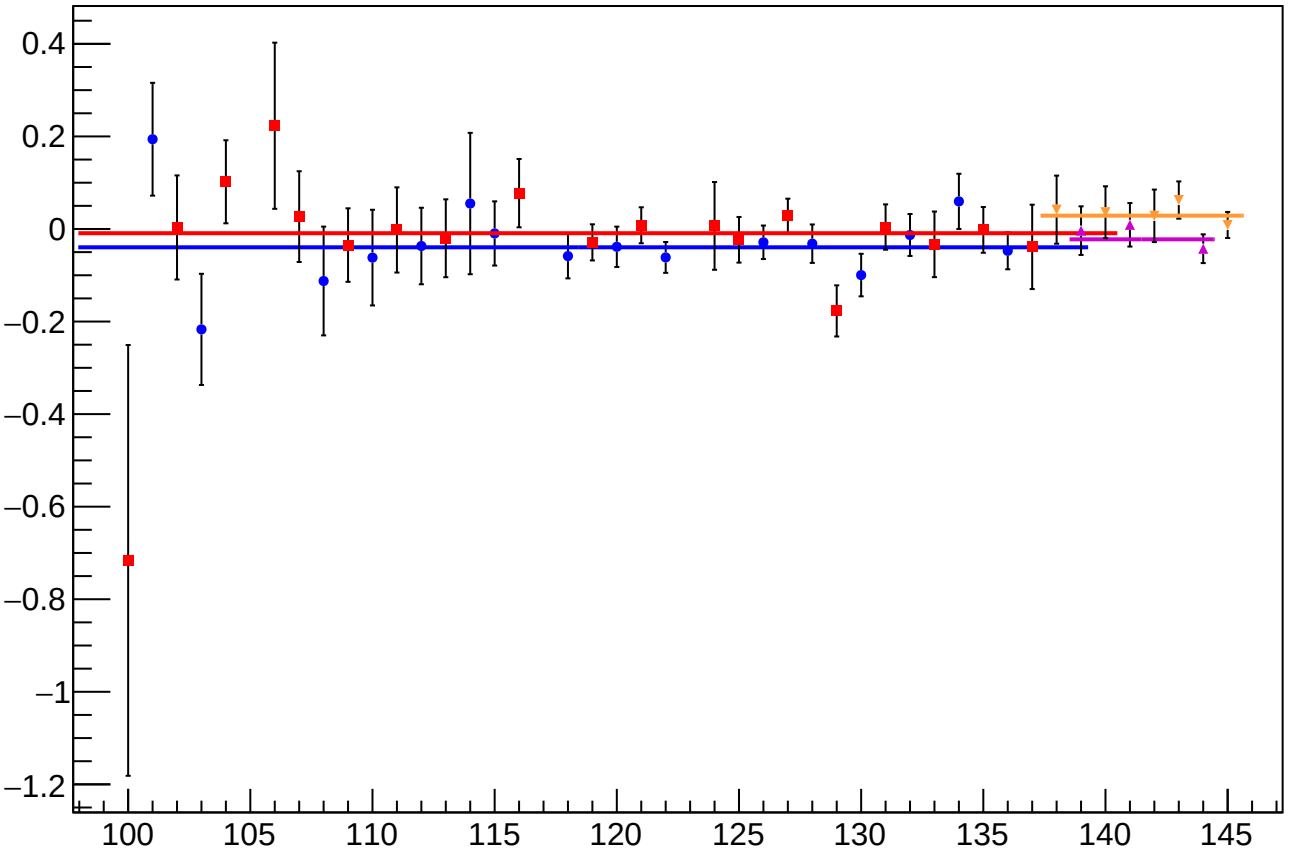
Left: 0.000+/-0.000 $\chi^2$/NDF: 204152.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 4139315.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:3188259.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3277559.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6468260.7/42




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.029+/-0.019 $\chi^2$/NDF:1.3/4

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.022+/-0.023 $\chi^2$/NDF:1.0/2

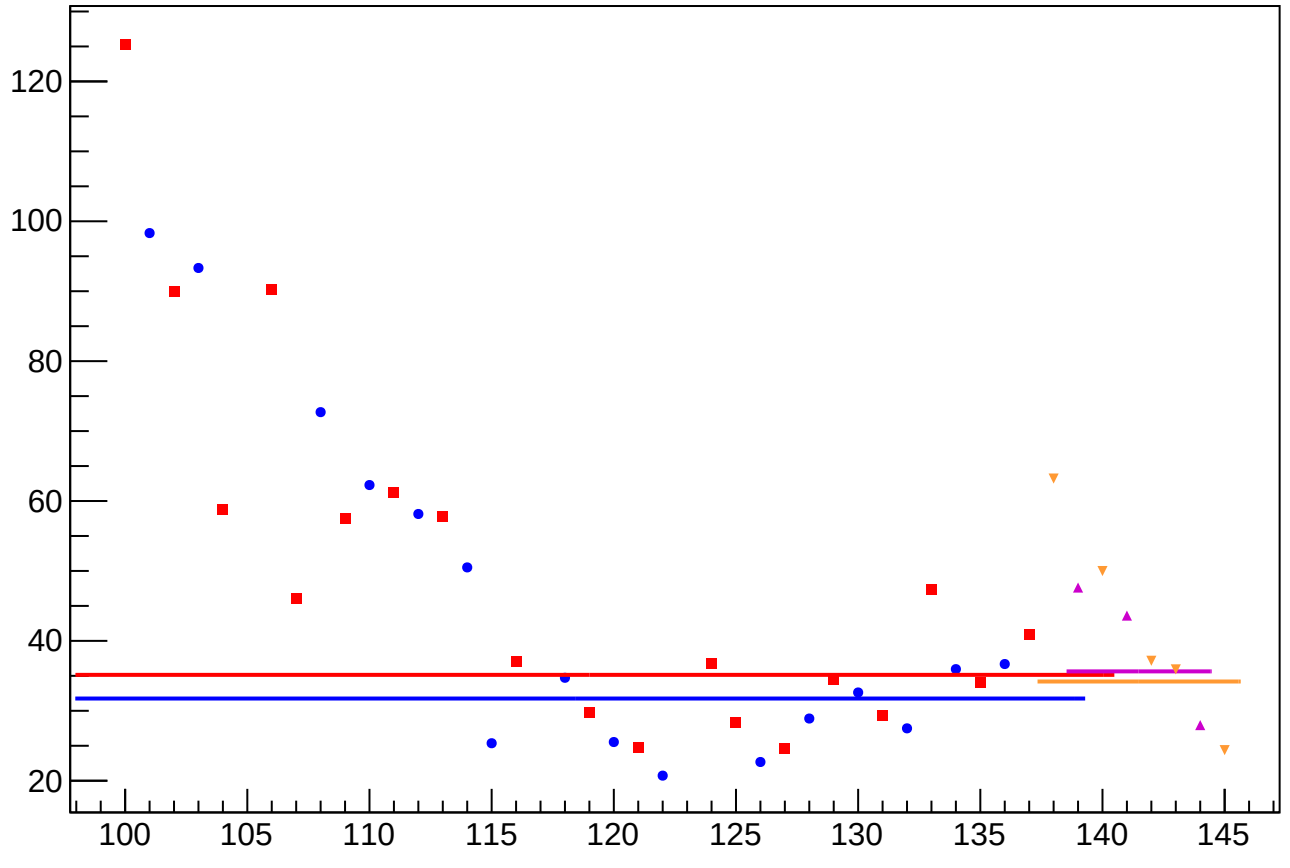
Left: 0.008+/-0.015 $\chi^2$/NDF: 5.1/7

Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.035+/-0.011 $\chi^2$/NDF:13.8/18

Out: 0.004+/-0.011 $\chi^2$/NDF:22.1/23

All: -0.016+/-0.008 $\chi^2$/NDF: 41.9/42




Right In: 31.755+/-0.009 $\chi^2$/NDF: 2252399.3/15

Left Out: 34.189+/-0.014 $\chi^2$/NDF:722124.3/4

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844676.3/18

Left In: 35.637+/-0.016 $\chi^2$/NDF:284135.4/2

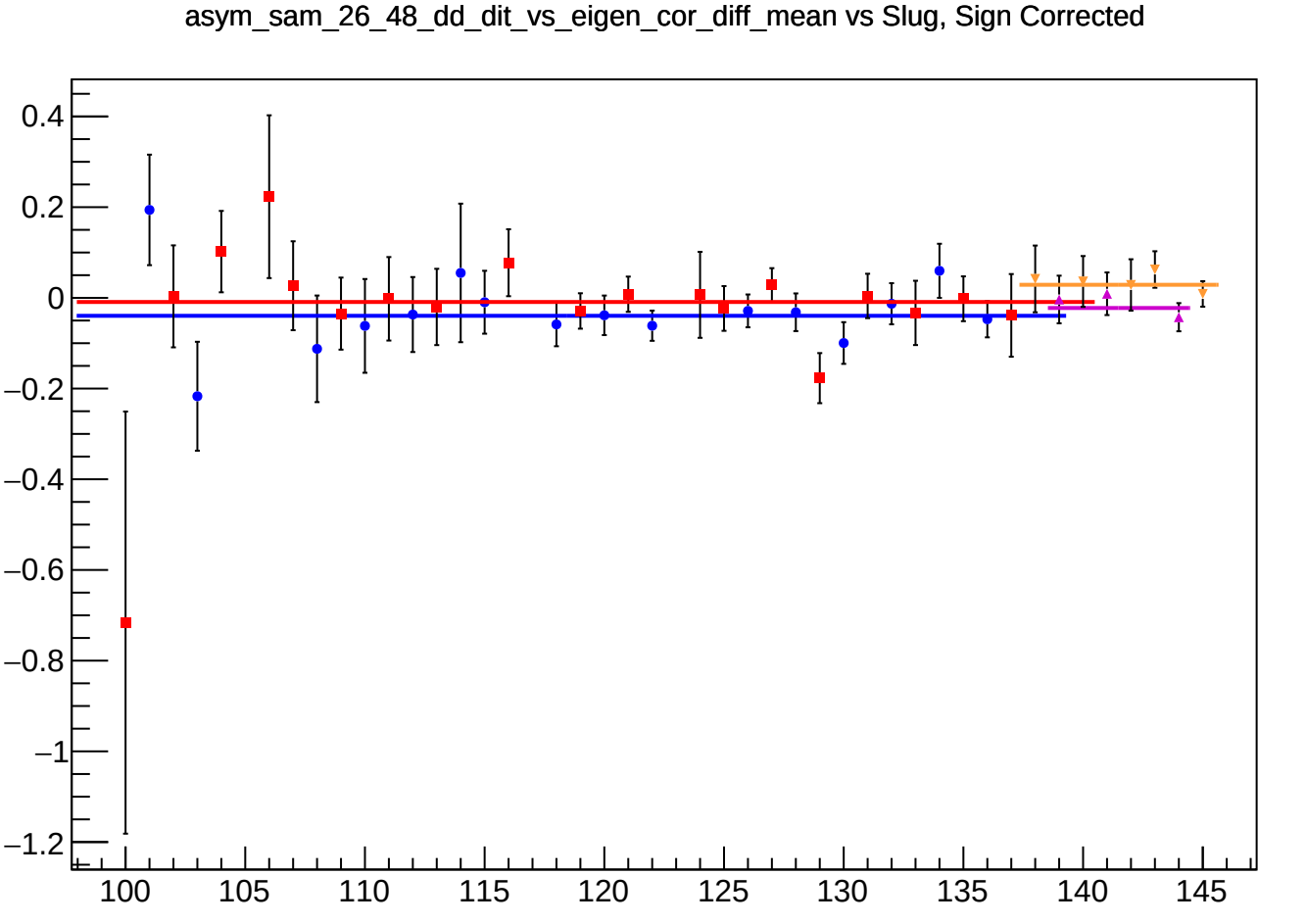
Left: 34.779+/-0.010 $\chi^2$/NDF: 1010855.7/7

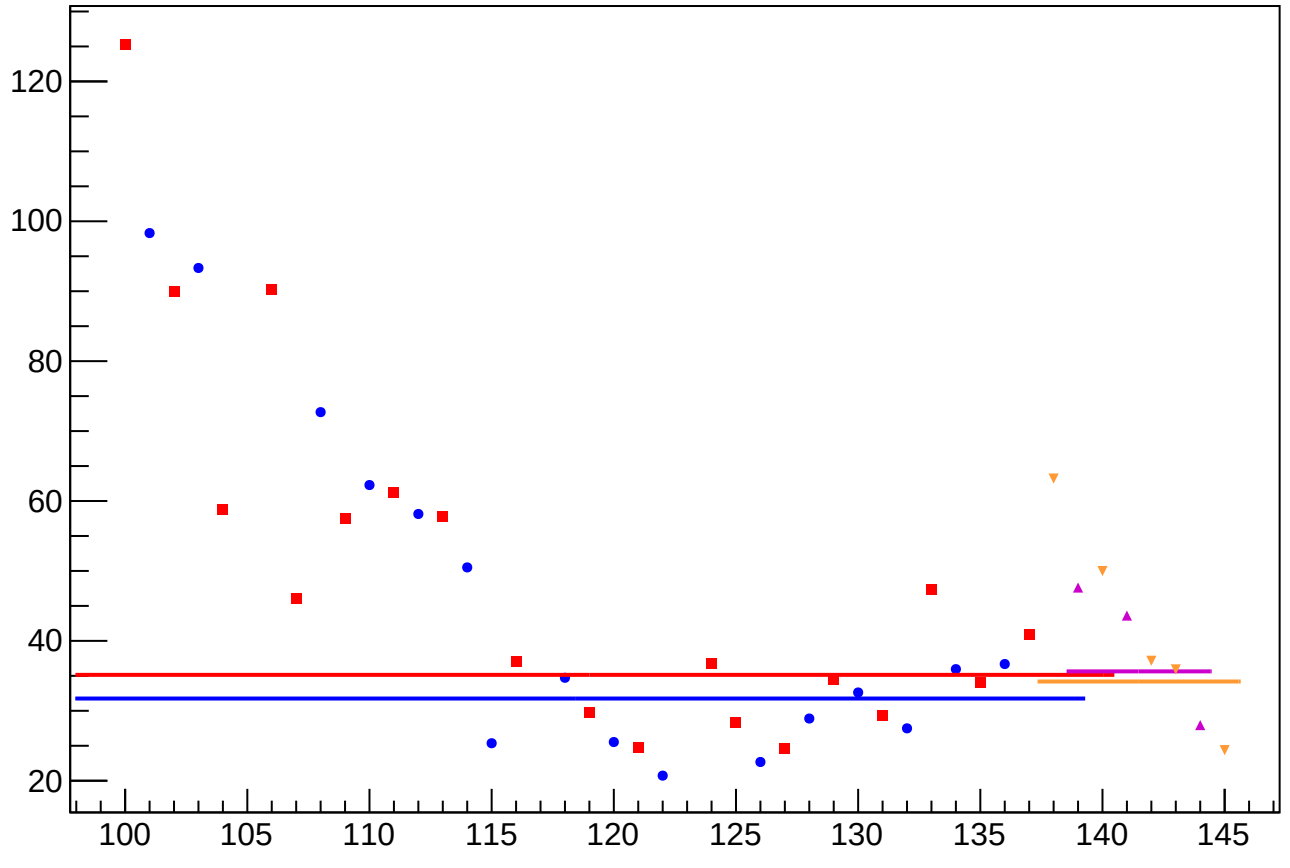
Right: 33.323+/-0.007 $\chi^2$/NDF: 4158326.5/34

In: 32.698+/-0.008 $\chi^2$/NDF:2578769.4/18

Out: 34.806+/-0.008 $\chi^2$/NDF:2569956.3/23

All: 33.756+/-0.006 $\chi^2$/NDF: 5182723.4/42


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
105
110
115
120
125
130
135
140
145
Right In: -0.040+/-0.013 χ²/NDF: 12.4/15
Left Out: 0.029+/-0.019 χ²/NDF:1.3/4
Right Out: -0.009+/-0.014 χ²/NDF: 18.3/18
Left In: -0.022+/-0.023 χ²/NDF:1.0/2
Left: 0.008+/-0.015 χ²/NDF: 5.1/7
Right: -0.025+/-0.010 χ²/NDF: 33.2/34
In: -0.035+/-0.011 χ²/NDF:13.8/18
Out: 0.004+/-0.011 χ²/NDF:22.1/23
All: -0.016+/-0.008 χ²/NDF: 41.9/42




Right In: 31.755+/-0.009 $\chi^2$/NDF: 2252399.3/15

Left Out: 34.189+/-0.014 $\chi^2$/NDF:722124.3/4

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844676.3/18

Left In: 35.637+/-0.016 $\chi^2$/NDF:284135.4/2

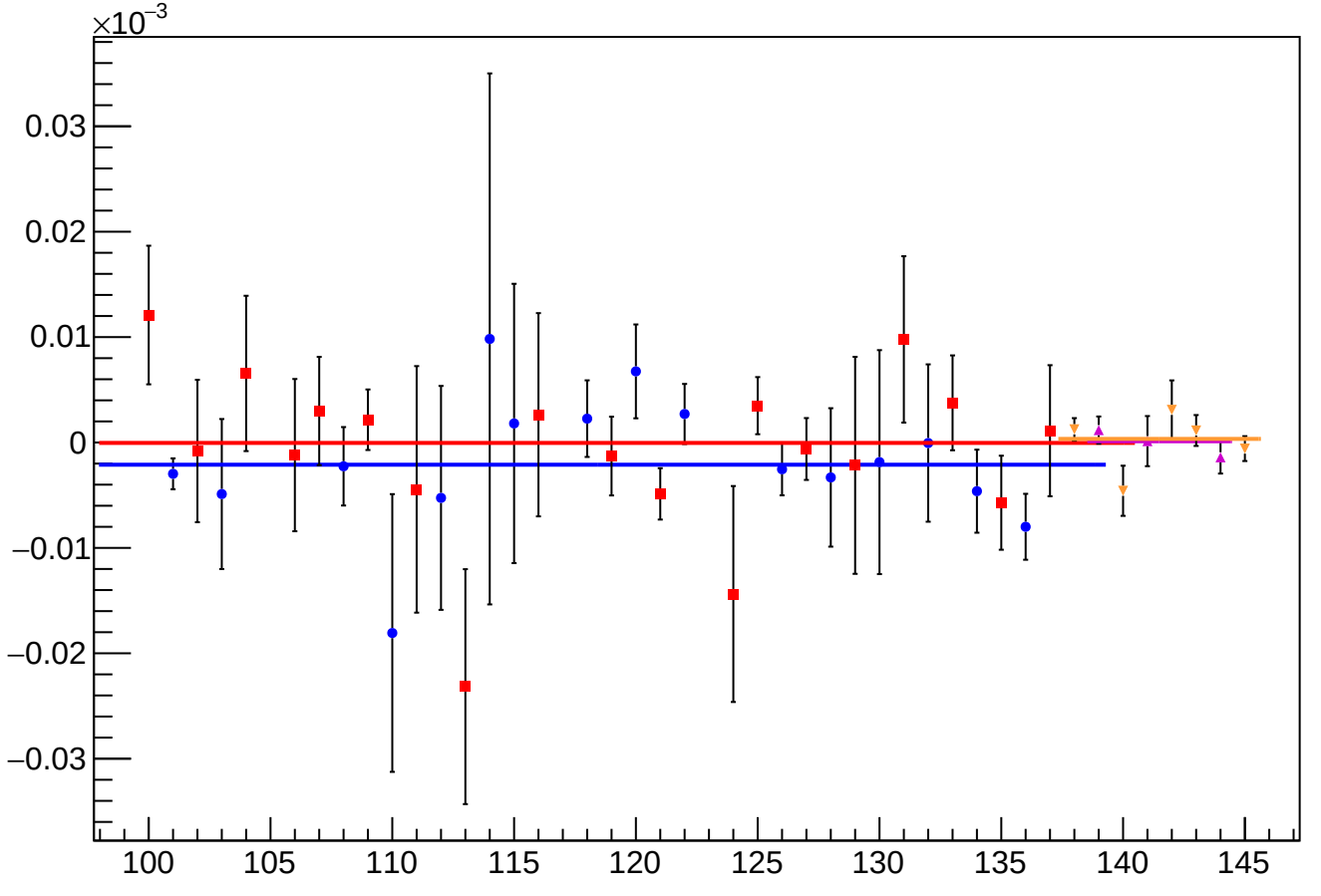
Left: 34.779+/-0.010 $\chi^2$/NDF: 1010855.7/7

Right: 33.323+/-0.007 $\chi^2$/NDF: 4158326.5/34

In: 32.698+/-0.008 $\chi^2$/NDF:2578769.4/18

Out: 34.806+/-0.008 $\chi^2$/NDF:2569956.3/23

All: 33.756+/-0.006 $\chi^2$/NDF: 5182723.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.7/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.9/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.7/2

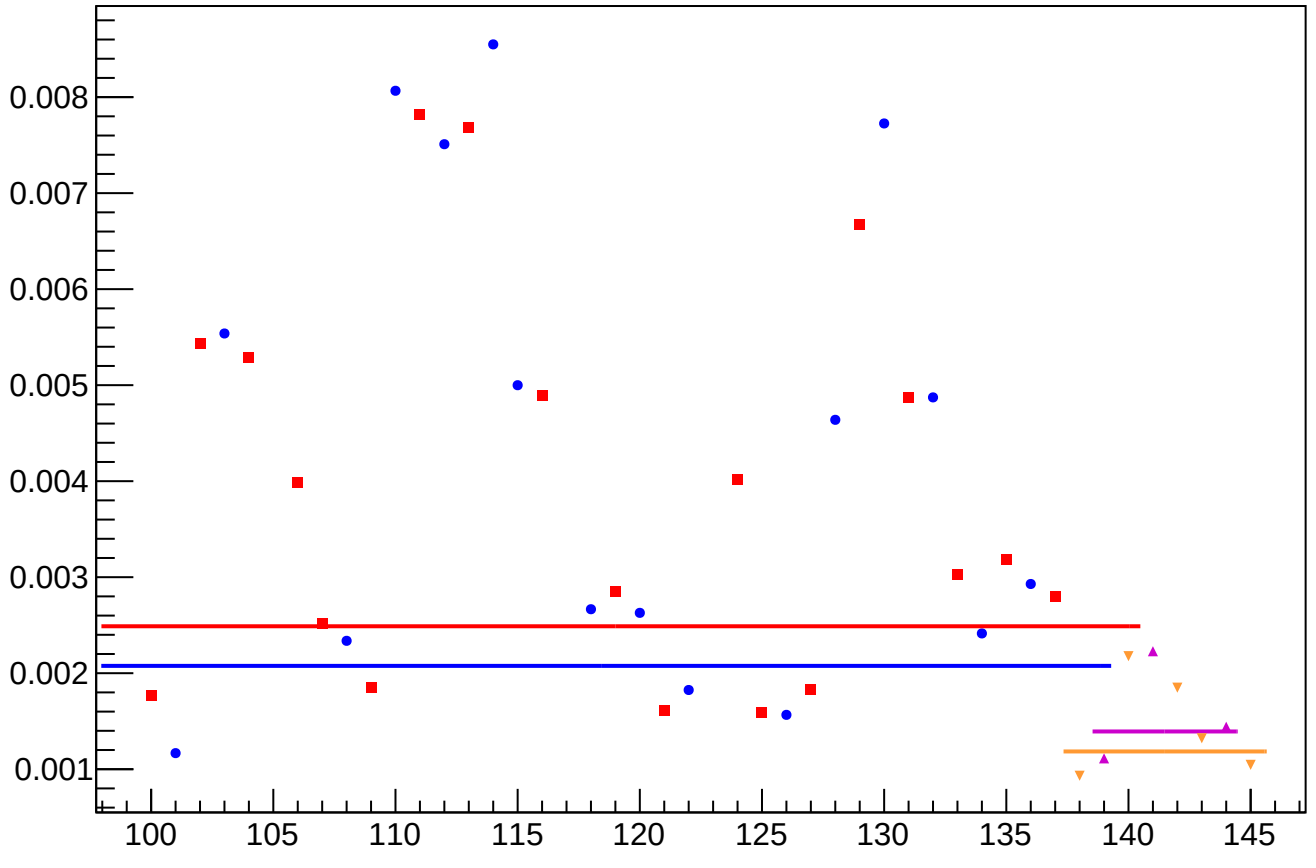
Left: 0.000+/-0.000 $\chi^2$/NDF: 8.6/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 38.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.4/18

Out: 0.000+/-0.000 $\chi^2$/NDF:28.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 49.9/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3916668.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:620178.3/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3092230.7/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:343873.6/2

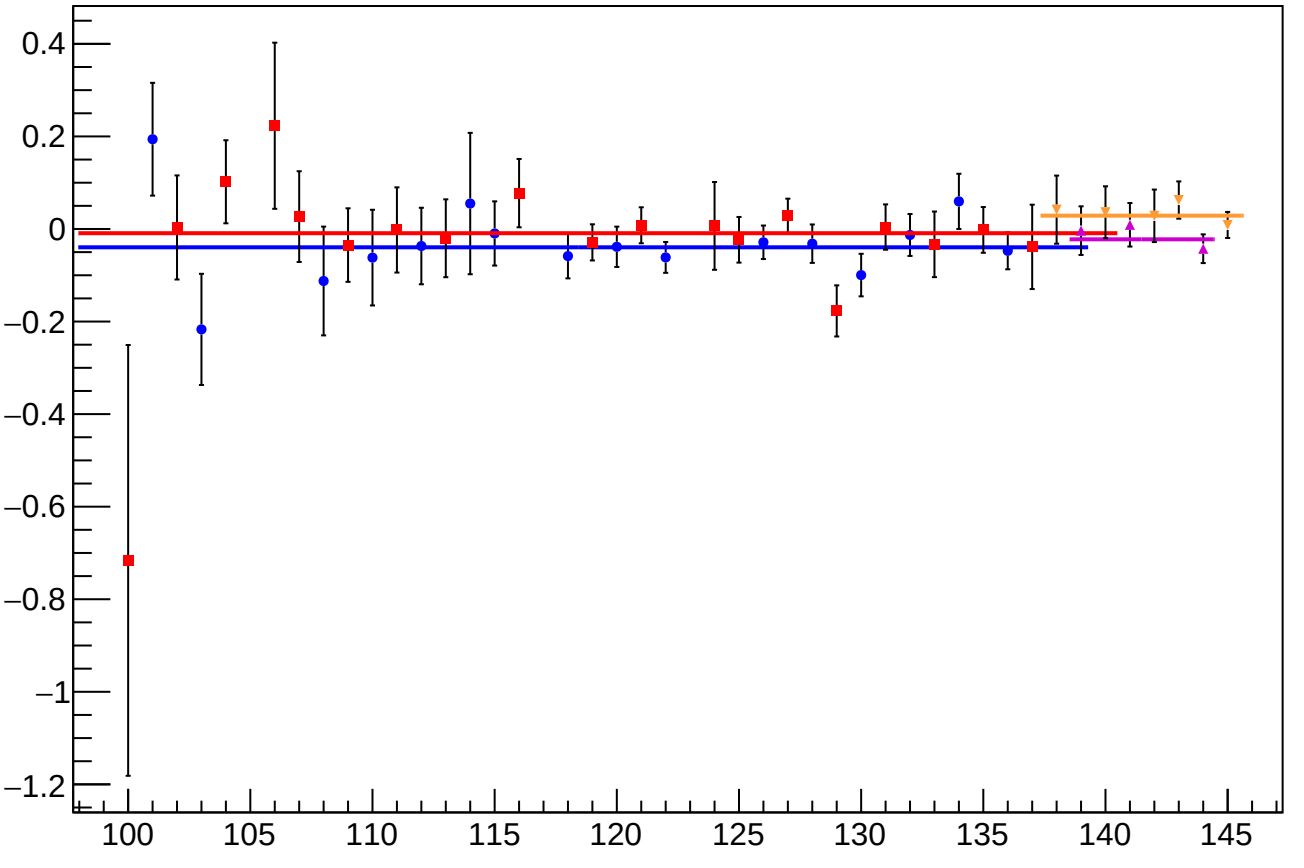
Left: 0.001+/-0.000 $\chi^2$/NDF: 1033194.8/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 7186793.8/34

In: 0.002+/-0.000 $\chi^2$/NDF:4823218.8/18

Out: 0.002+/-0.000 $\chi^2$/NDF:5969153.5/23

All: 0.002+/-0.000 $\chi^2$/NDF: 10889656.8/42




Right In: -0.040+/-0.013 $\chi^2$/NDF: 12.4/15

Left Out: 0.029+/-0.019 $\chi^2$/NDF:1.3/4

Right Out: -0.009+/-0.014 $\chi^2$/NDF: 18.3/18

Left In: -0.022+/-0.023 $\chi^2$/NDF:1.0/2

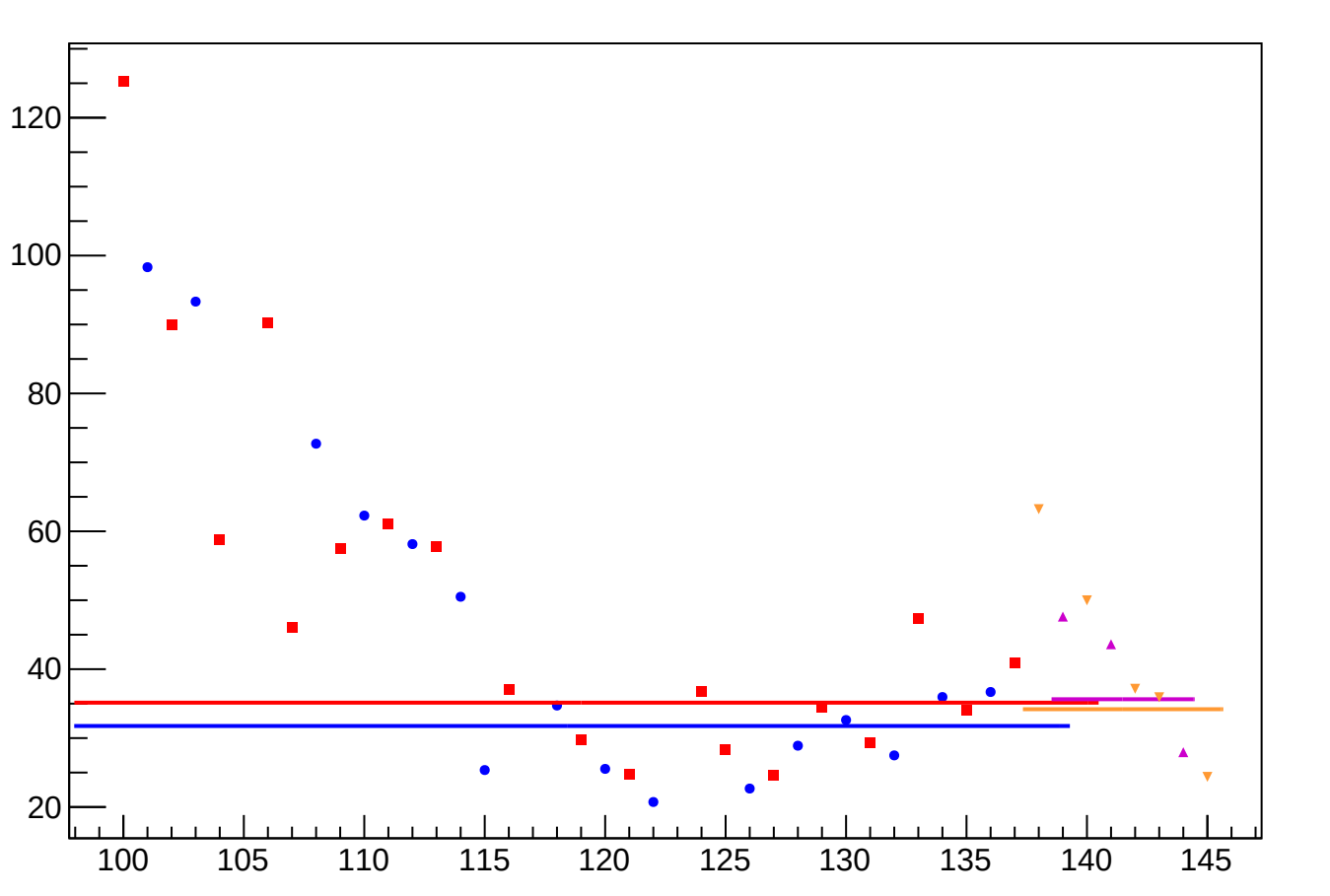
Left: 0.008+/-0.015 $\chi^2$/NDF: 5.1/7

Right: -0.025+/-0.010 $\chi^2$/NDF: 33.2/34

In: -0.035+/-0.011 $\chi^2$/NDF:13.8/18

Out: 0.004+/-0.011 $\chi^2$/NDF:22.1/23

All: -0.016+/-0.008 $\chi^2$/NDF: 41.9/42




Right In: 31.756+/-0.009 $\chi^2$/NDF: 2252373.4/15

Left Out: 34.189+/-0.014 $\chi^2$/NDF:722164.0/4

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844572.3/18

Left In: 35.637+/-0.016 $\chi^2$/NDF:284145.4/2

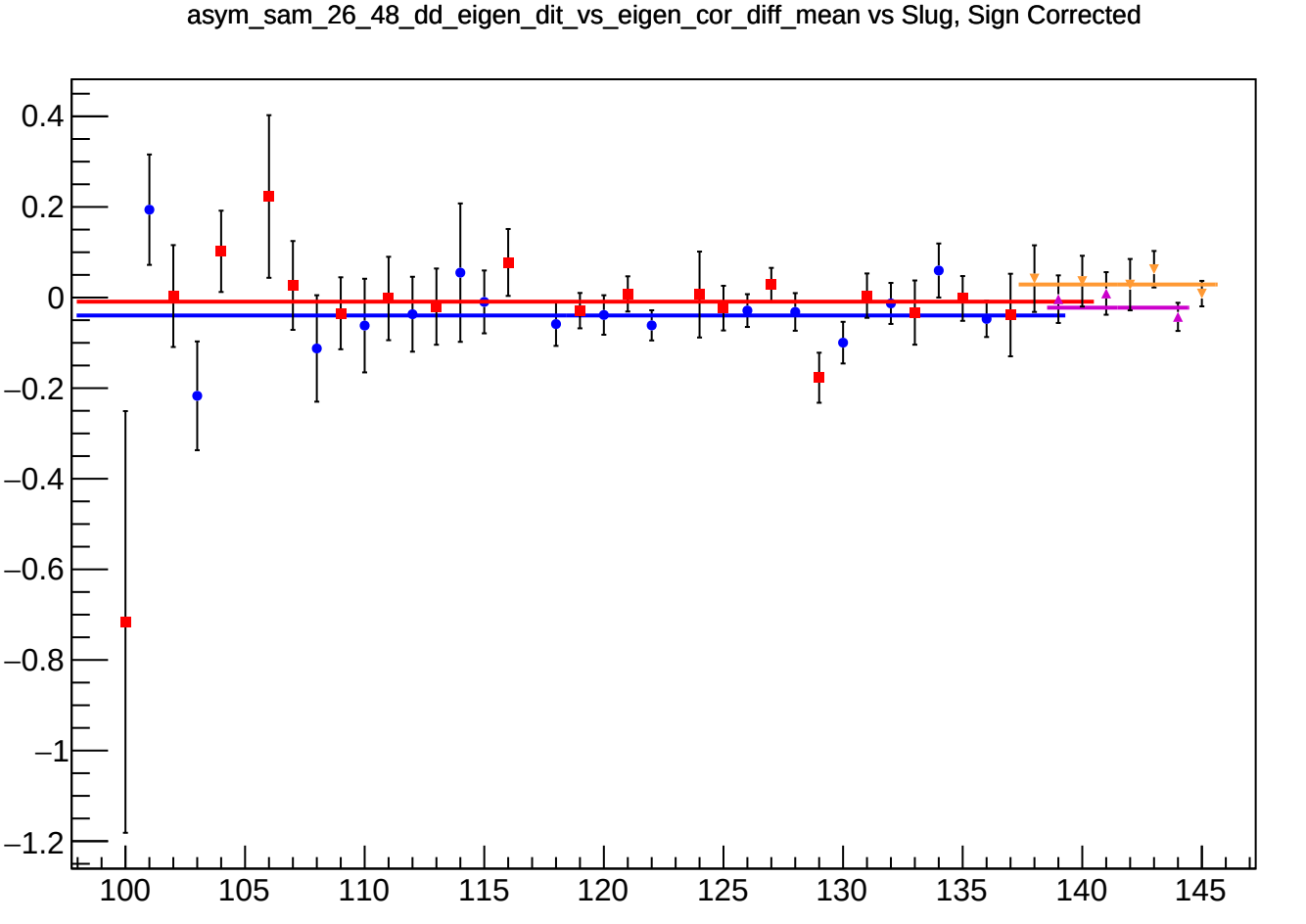
Left: 34.779+/-0.010 $\chi^2$/NDF: 1010906.9/7

Right: 33.324+/-0.007 $\chi^2$/NDF: 4158199.3/34

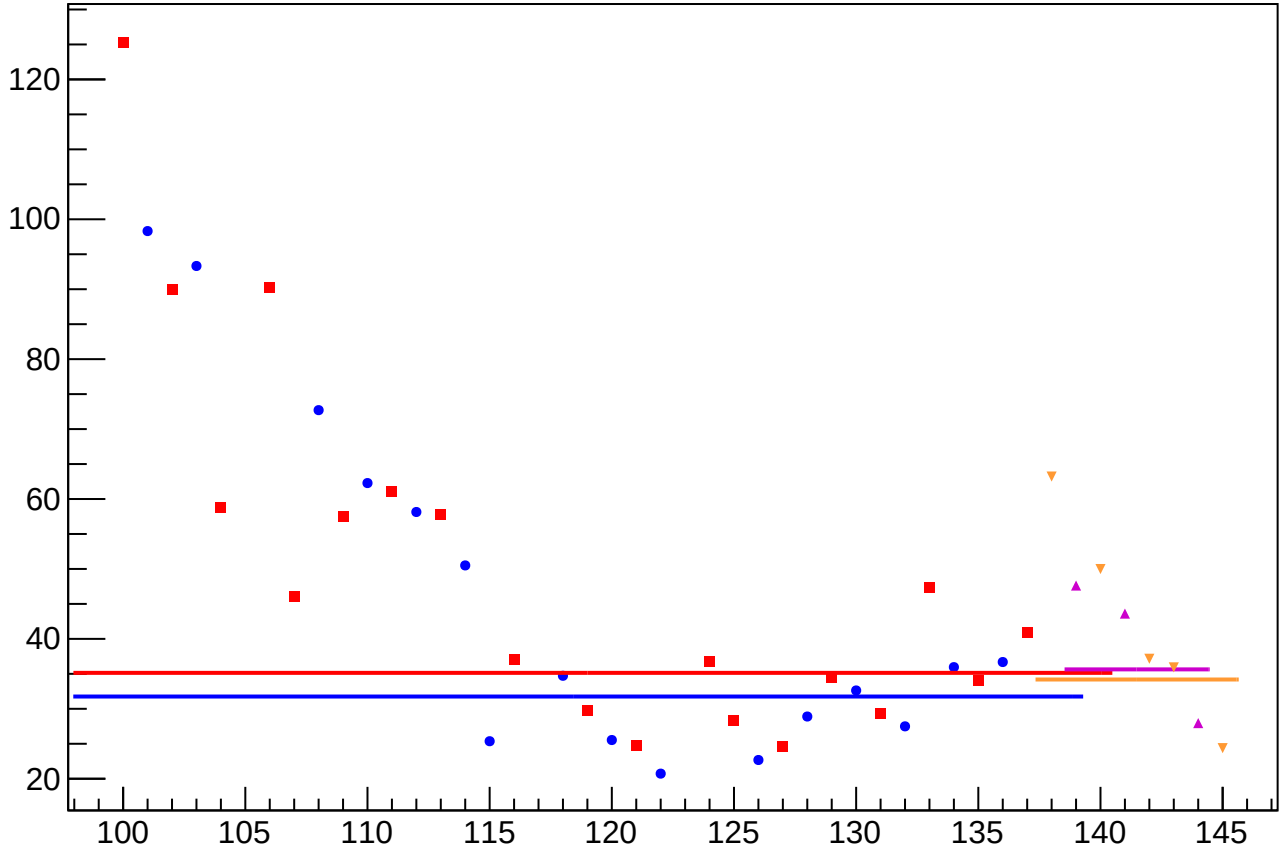
In: 32.698+/-0.008 $\chi^2$/NDF:2578745.9/18

Out: 34.806+/-0.008 $\chi^2$/NDF:2569896.5/23

All: 33.756+/-0.006 $\chi^2$/NDF: 5182637.7/42


asym_sam_26_48_dd_eigen_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
105
110
115
120
125
130
135
140
145
Right In: -0.040+/-0.013 χ²/NDF: 12.4/15
Left Out: 0.029+/-0.019 χ²/NDF:1.3/4
Right Out: -0.009+/-0.014 χ²/NDF: 18.3/18
Left In: -0.022+/-0.023 χ²/NDF:1.0/2
Left: 0.008+/-0.015 χ²/NDF: 5.1/7
Right: -0.025+/-0.010 χ²/NDF: 33.2/34
In: -0.035+/-0.011 χ²/NDF:13.8/18
Out: 0.004+/-0.011 χ²/NDF:22.1/23
All: -0.016+/-0.008 χ²/NDF: 41.9/42

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: 34.189+/-0.014 $\chi^2$/NDF:722164.0/4

Right Out: 35.140+/-0.010 $\chi^2$/NDF: 1844572.3/18

Left In: 35.637+/-0.016 $\chi^2$/NDF:284145.4/2

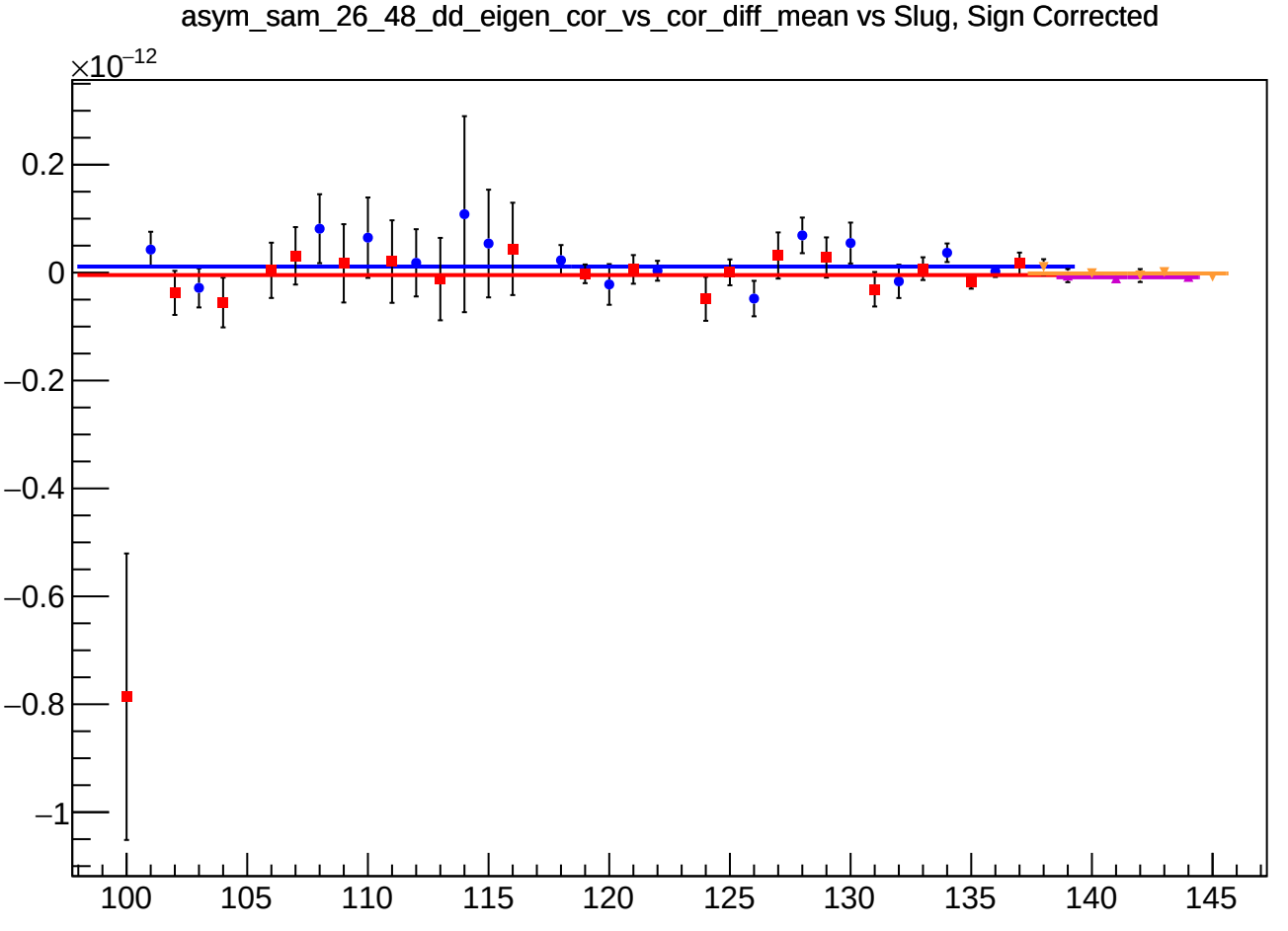
Left: 34.779+/-0.010 $\chi^2$/NDF: 1010906.9/7

Right: 33.324+/-0.007 $\chi^2$/NDF: 4158199.3/34

In: 32.698+/-0.008 $\chi^2$/NDF:2578745.9/18

Out: 34.806+/-0.008 $\chi^2$/NDF:2569896.5/23

All: 33.756+/-0.006 $\chi^2$/NDF: 5182637.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:0.1/2

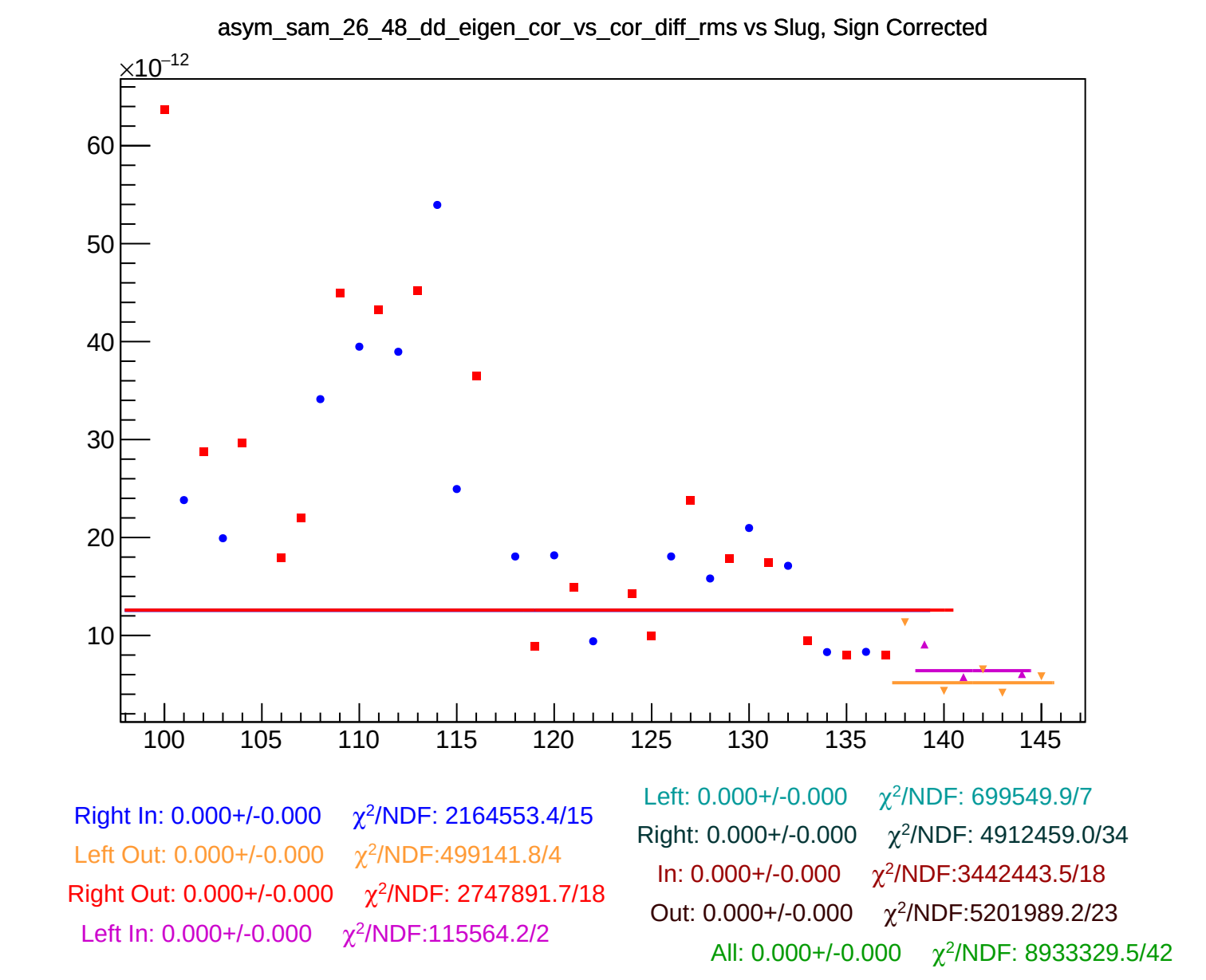
Left: -0.000+/-0.000 $\chi^2$/NDF: 3.2/7

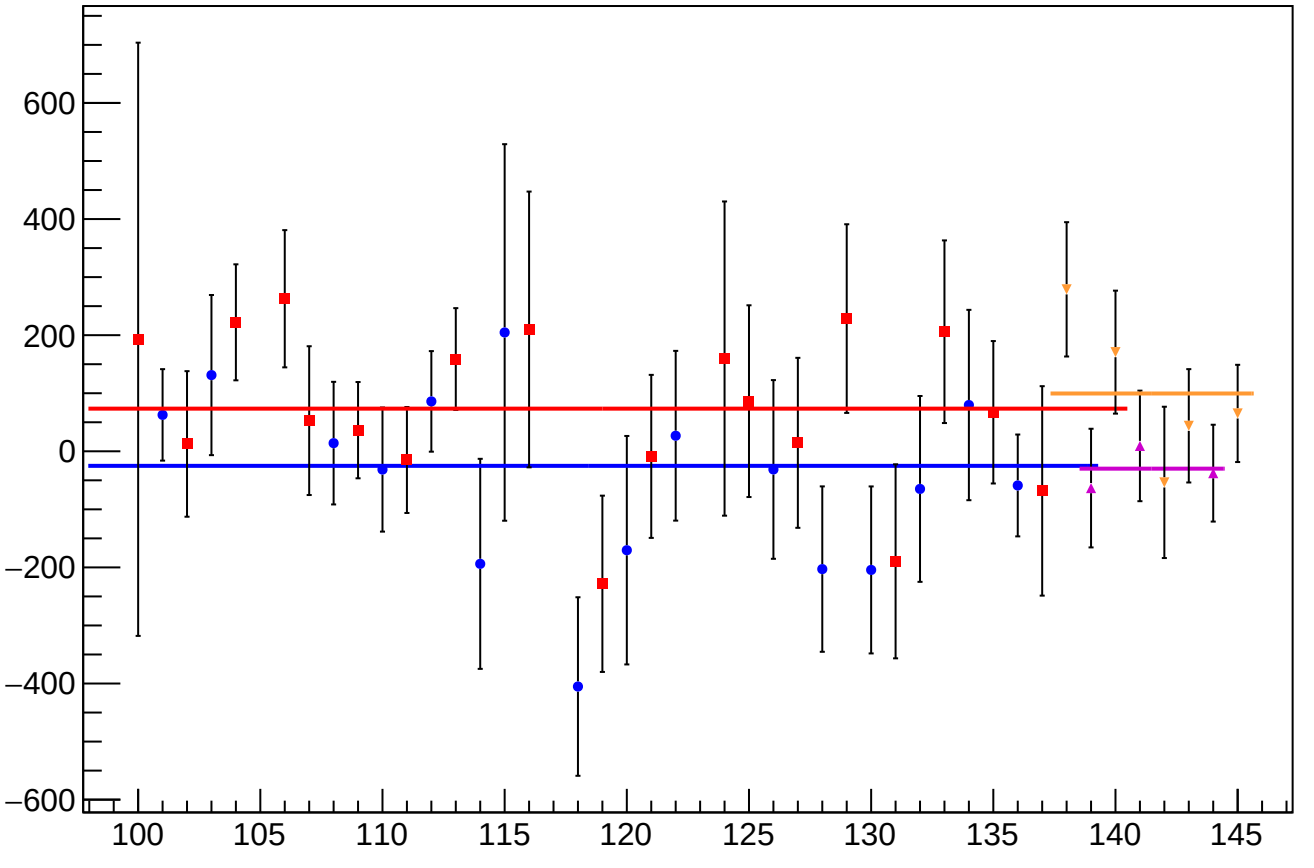
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 42.3/42


asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2164553.4/15
Left Out: 0.000+/-0.000 χ²/NDF:499141.8/4
Right Out: 0.000+/-0.000 χ²/NDF: 2747891.7/18
Left In: 0.000+/-0.000 χ²/NDF:115564.2/2
Left: 0.000+/-0.000 χ²/NDF: 699549.9/7
Right: 0.000+/-0.000 χ²/NDF: 4912459.0/34
In: 0.000+/-0.000 χ²/NDF:3442443.5/18
Out: 0.000+/-0.000 χ²/NDF:5201989.2/23
All: 0.000+/-0.000 χ²/NDF: 8933329.5/42




Right In: -25.072+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 99.551+/-46.110 $\chi^2$/NDF:4.7/4

Right Out: 73.458+/-29.935 $\chi^2$/NDF: 16.8/18

Left In: -29.912+/-53.465 $\chi^2$/NDF:0.3/2

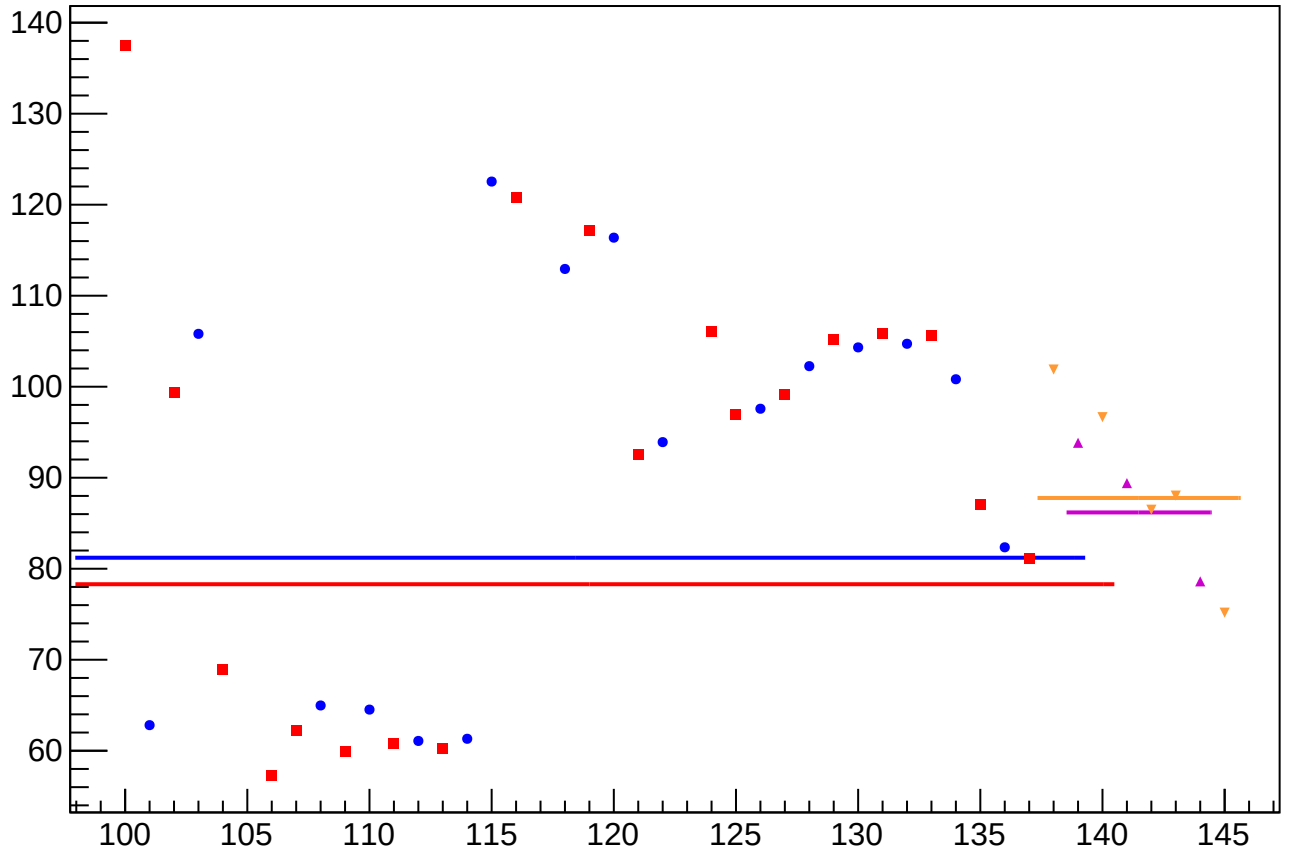
Left: 44.330+/-34.918 $\chi^2$/NDF: 8.4/7

Right: 26.278+/-21.610 $\chi^2$/NDF: 38.2/34

In: -26.303+/-26.966 $\chi^2$/NDF:16.5/18

Out: 81.194+/-25.108 $\chi^2$/NDF:21.7/23

All: 31.277+/-18.376 $\chi^2$/NDF: 46.8/42




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787676.9/15

Left Out: 87.775+/-0.033 $\chi^2$/NDF:89319.7/4

Right Out: 78.298+/-0.021 $\chi^2$/NDF: 934673.9/18

Left In: 86.186+/-0.038 $\chi^2$/NDF:30000.0/2

Left: 87.097+/-0.025 $\chi^2$/NDF: 120333.3/7

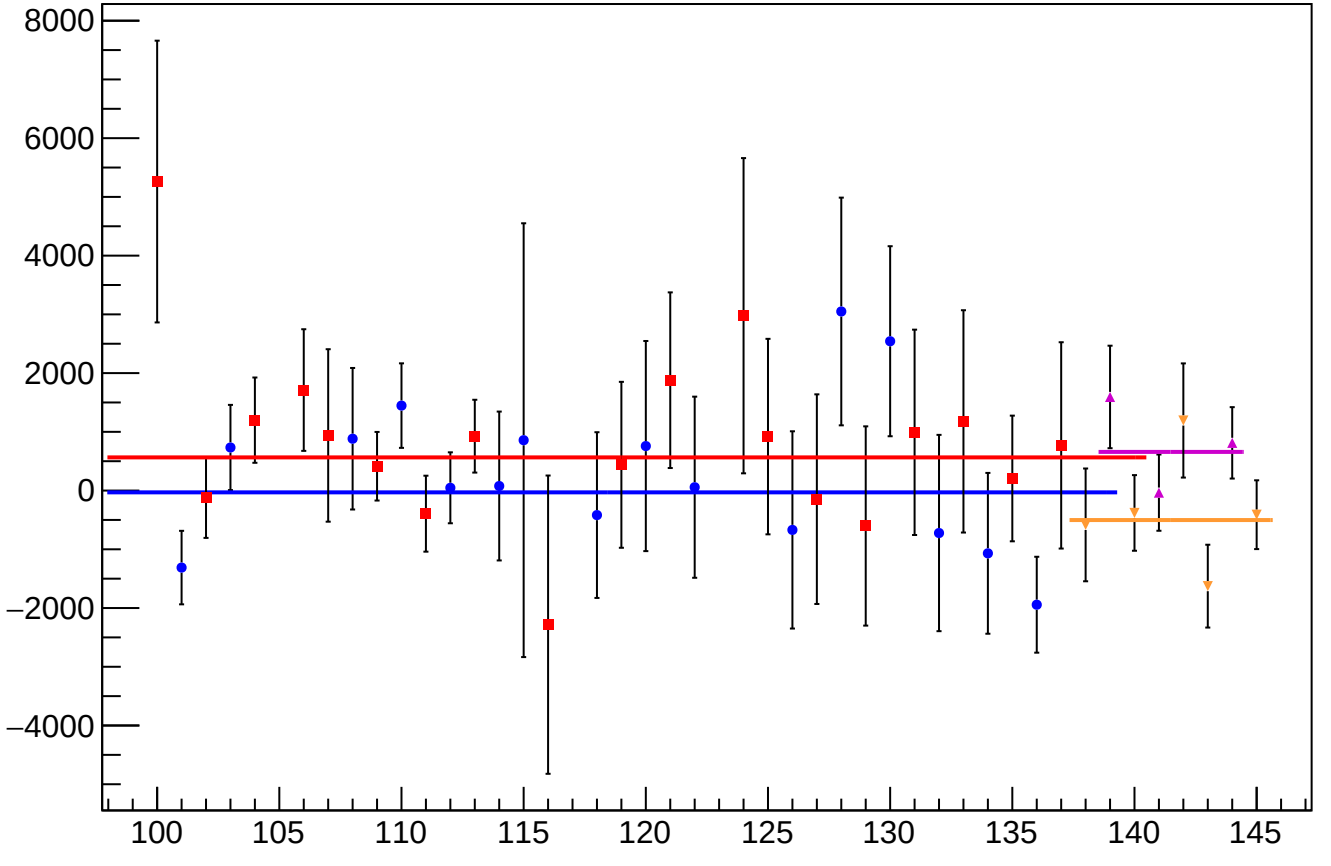
Right: 79.692+/-0.015 $\chi^2$/NDF: 1731411.2/34

In: 82.475+/-0.019 $\chi^2$/NDF:830594.7/18

Out: 81.108+/-0.018 $\chi^2$/NDF:1083432.4/23

All: 81.743+/-0.013 $\chi^2$/NDF: 1916782.3/42

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: -501.997+/-324.749 $\chi^2$/NDF:5.7/4

Right Out: 564.890+/-238.492 $\chi^2$/NDF: 13.3/18

Left In: 658.252+/-395.504 $\chi^2$/NDF:2.4/2

Left: -34.762+/-250.982 $\chi^2$/NDF: 13.2/7

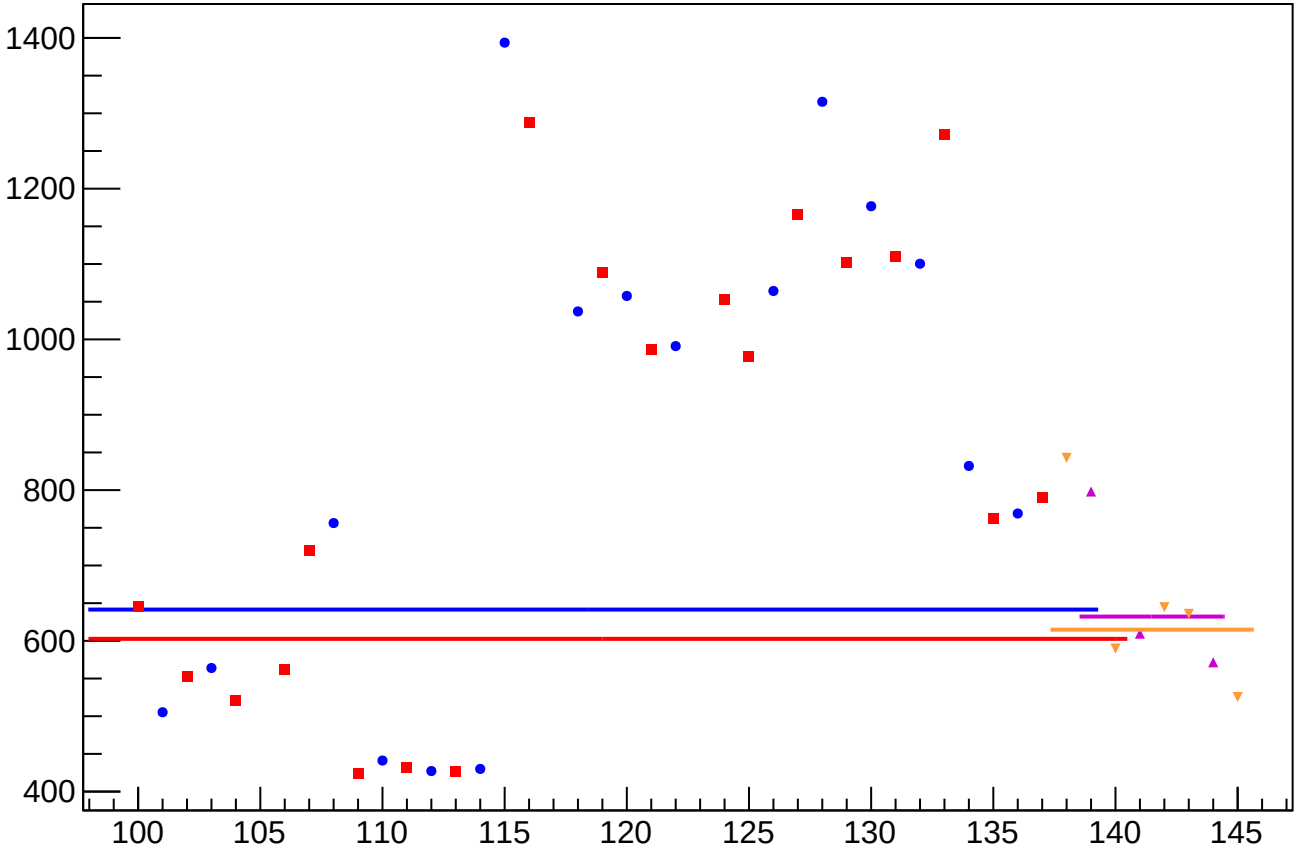
Right: 289.446+/-174.816 $\chi^2$/NDF: 38.1/34

In: 174.045+/-215.499 $\chi^2$/NDF:26.4/18

Out: 191.090+/-192.224 $\chi^2$/NDF:26.0/23

All: 183.537+/-143.449 $\chi^2$/NDF: 52.3/42

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: 614.826+/-0.230 $\chi^2$/NDF:166079.2/4

Right Out: 602.654+/-0.169 $\chi^2$/NDF: 2070307.7/18

Left In: 632.202+/-0.280 $\chi^2$/NDF:94708.7/2

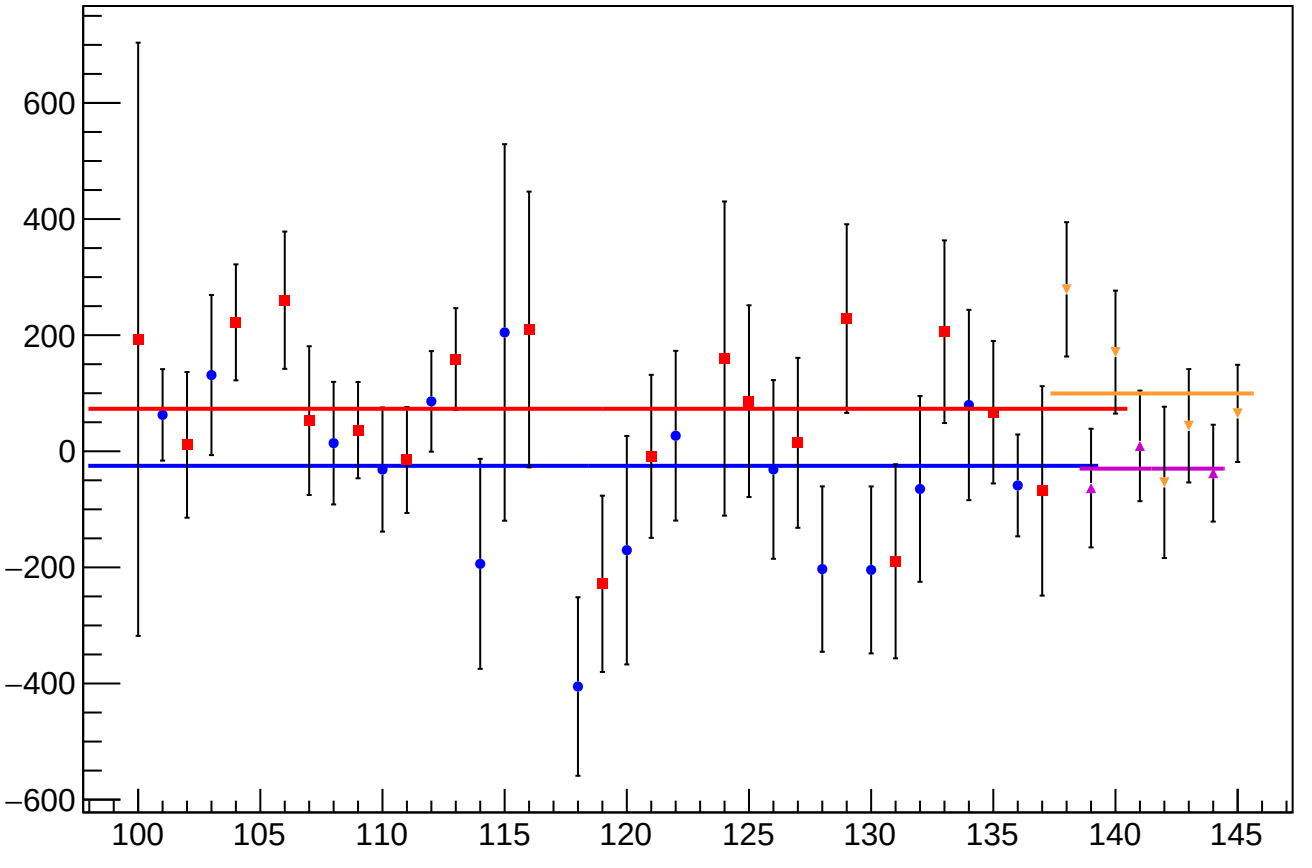
Left: 621.824+/-0.177 $\chi^2$/NDF: 263093.7/7

Right: 620.627+/-0.124 $\chi^2$/NDF: 3969848.5/34

In: 638.739+/-0.152 $\chi^2$/NDF:1970476.5/18

Out: 606.918+/-0.136 $\chi^2$/NDF:2238212.4/23

All: 621.018+/-0.101 $\chi^2$/NDF: 4232972.7/42




Right In: -25.075+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 99.564+/-46.110 $\chi^2$/NDF:4.7/4

Right Out: 73.193+/-29.937 $\chi^2$/NDF: 16.7/18

Left In: -29.906+/-53.465 $\chi^2$/NDF:0.3/2

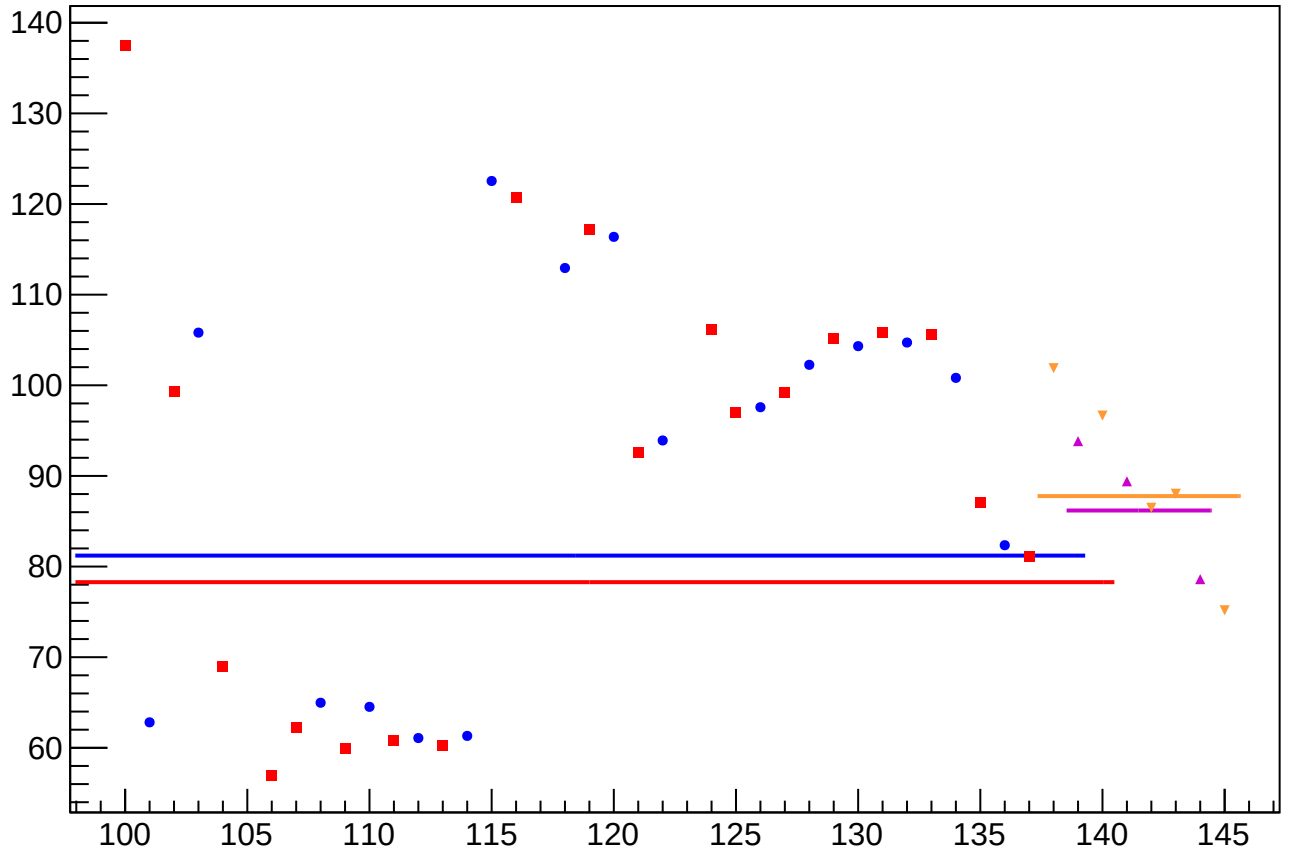
Left: 44.340+/-34.918 $\chi^2$/NDF: 8.4/7

Right: 26.135+/-21.611 $\chi^2$/NDF: 38.1/34

In: -26.304+/-26.966 $\chi^2$/NDF:16.5/18

Out: 81.012+/-25.109 $\chi^2$/NDF:21.7/23

All: 31.177+/-18.376 $\chi^2$/NDF: 46.7/42




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787679.3/15

Left Out: 87.775+/-0.033 $\chi^2$/NDF:89319.7/4

Right Out: 78.279+/-0.021 $\chi^2$/NDF: 936812.2/18

Left In: 86.186+/-0.038 $\chi^2$/NDF:30000.0/2

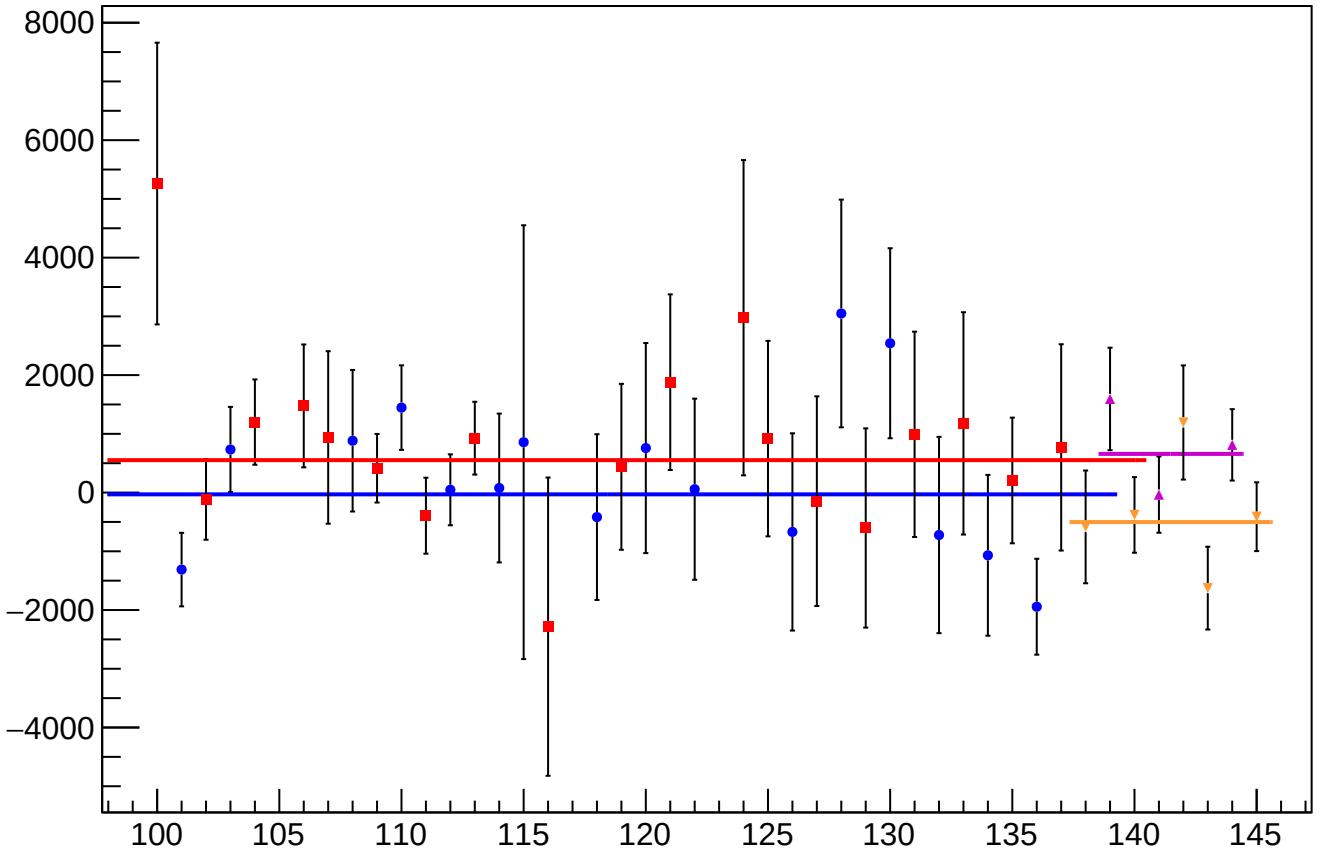
Left: 87.097+/-0.025 $\chi^2$/NDF: 120333.3/7

Right: 79.683+/-0.015 $\chi^2$/NDF: 1733667.8/34

In: 82.476+/-0.019 $\chi^2$/NDF:830597.0/18

Out: 81.095+/-0.018 $\chi^2$/NDF:1085802.6/23

All: 81.736+/-0.013 $\chi^2$/NDF: 1919206.9/42




Right In: -30.434+/-257.002 $\chi^2$/NDF: 21.9/15

Left Out: -501.985+/-324.749 $\chi^2$/NDF:5.7/4

Right Out: 551.948+/-238.640 $\chi^2$/NDF: 12.8/18

Left In: 658.264+/-395.505 $\chi^2$/NDF:2.4/2

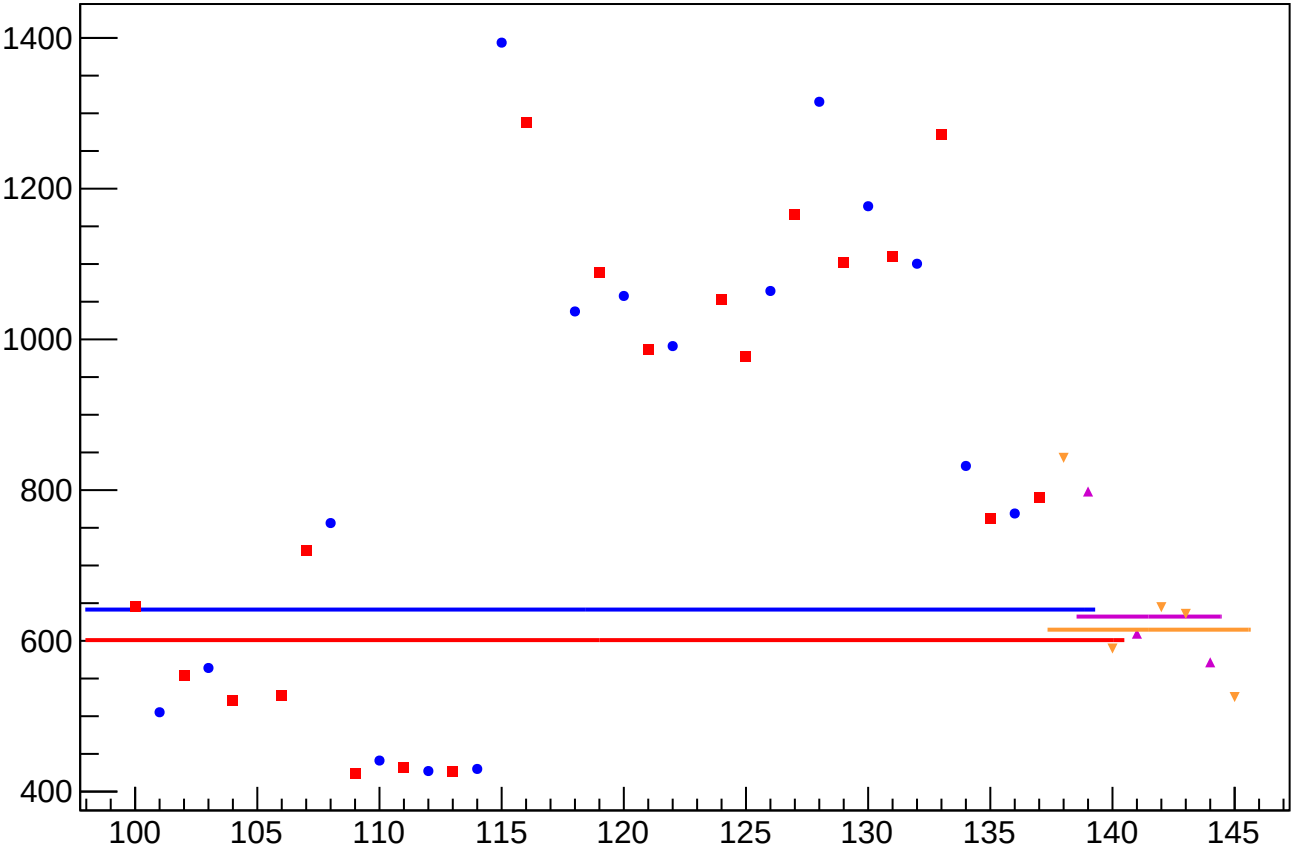
Left: -34.751+/-250.982 $\chi^2$/NDF: 13.2/7

Right: 282.303+/-174.876 $\chi^2$/NDF: 37.4/34

In: 174.033+/-215.501 $\chi^2$/NDF:26.4/18

Out: 182.388+/-192.302 $\chi^2$/NDF:25.3/23

All: 178.684+/-143.481 $\chi^2$/NDF: 51.7/42




Right In: 641.507+/-0.182 $\chi^2$/NDF: 1874950.0/15

Left Out: 614.826+/-0.230 $\chi^2$/NDF:166080.0/4

Right Out: 600.975+/-0.169 $\chi^2$/NDF: 2077232.5/18

Left In: 632.203+/-0.280 $\chi^2$/NDF:94707.8/2

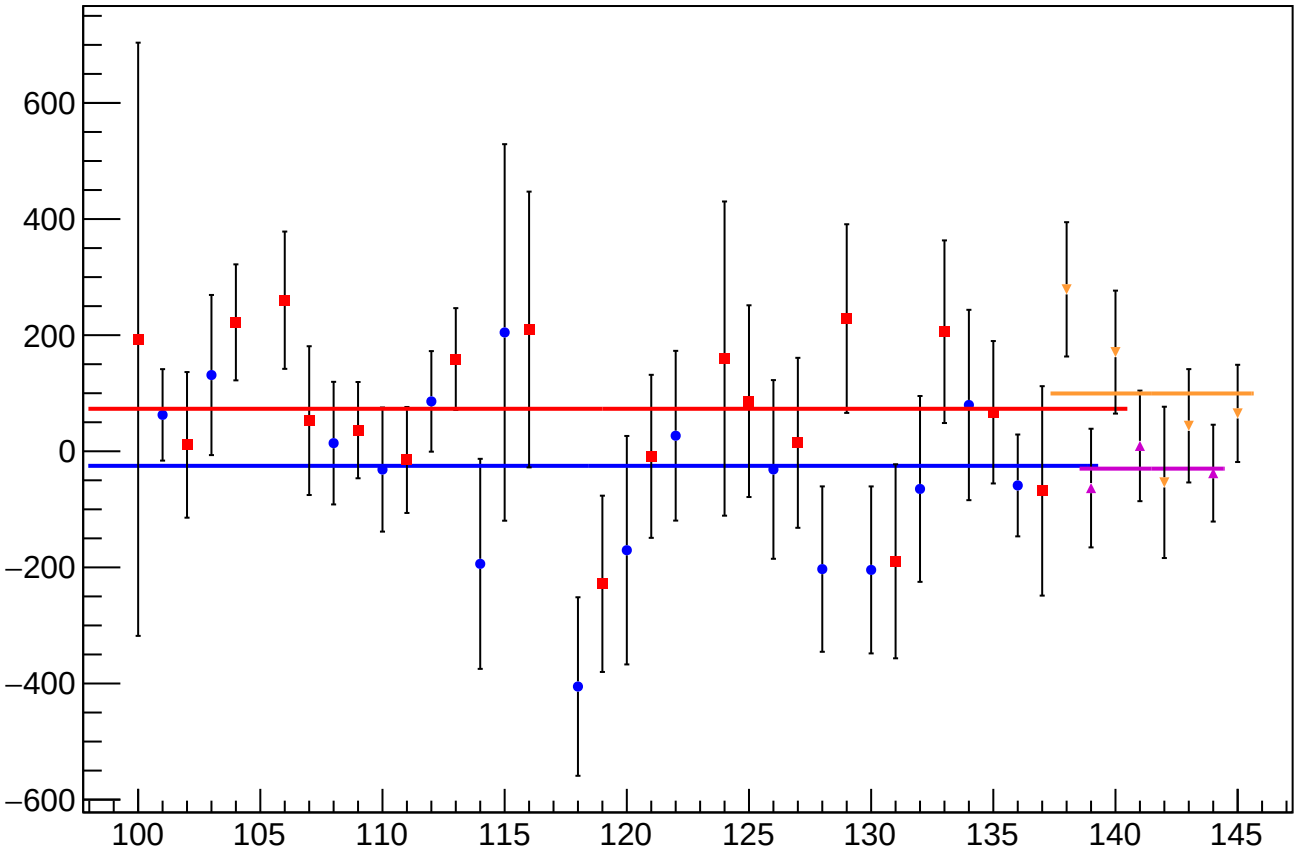
Left: 621.823+/-0.177 $\chi^2$/NDF: 263093.8/7

Right: 619.742+/-0.124 $\chi^2$/NDF: 3978895.7/34

In: 638.745+/-0.152 $\chi^2$/NDF:1970436.2/18

Out: 605.832+/-0.136 $\chi^2$/NDF:2245674.8/23

All: 620.422+/-0.101 $\chi^2$/NDF: 4242082.2/42




Right In: -25.075+/-31.230 $\chi^2$/NDF: 16.2/15

Left Out: 99.564+/-46.110 $\chi^2$/NDF:4.7/4

Right Out: 73.193+/-29.937 $\chi^2$/NDF: 16.7/18

Left In: -29.906+/-53.465 $\chi^2$/NDF:0.3/2

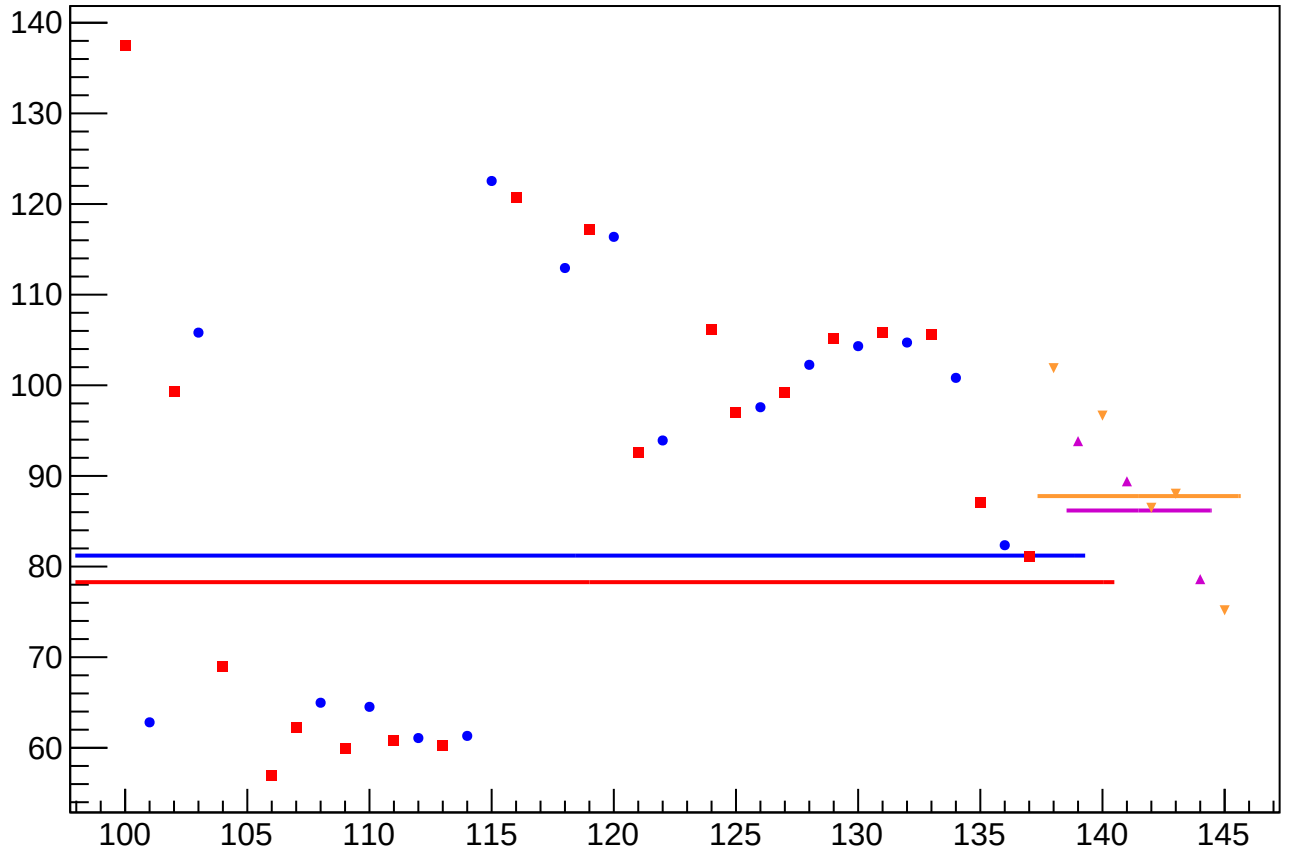
Left: 44.340+/-34.918 $\chi^2$/NDF: 8.4/7

Right: 26.135+/-21.611 $\chi^2$/NDF: 38.1/34

In: -26.304+/-26.966 $\chi^2$/NDF:16.5/18

Out: 81.012+/-25.109 $\chi^2$/NDF:21.7/23

All: 31.177+/-18.376 $\chi^2$/NDF: 46.7/42




Right In: 81.210+/-0.022 $\chi^2$/NDF: 787679.3/15

Left Out: 87.775+/-0.033 $\chi^2$/NDF:89319.7/4

Right Out: 78.279+/-0.021 $\chi^2$/NDF: 936812.2/18

Left In: 86.186+/-0.038 $\chi^2$/NDF:30000.0/2

Left: 87.097+/-0.025 $\chi^2$/NDF: 120333.3/7

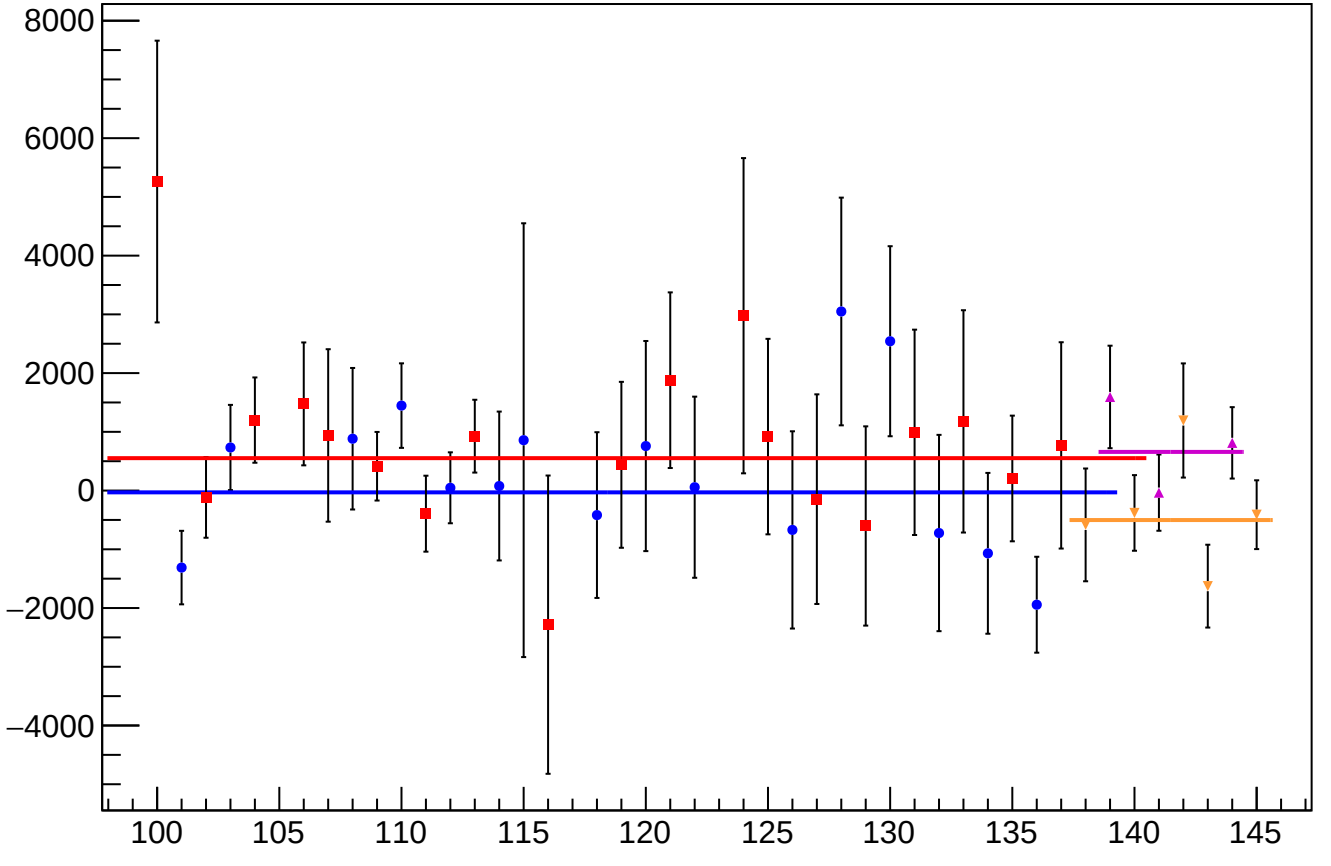
Right: 79.683+/-0.015 $\chi^2$/NDF: 1733667.8/34

In: 82.476+/-0.019 $\chi^2$/NDF:830597.0/18

Out: 81.095+/-0.018 $\chi^2$/NDF:1085802.6/23

All: 81.736+/-0.013 $\chi^2$/NDF: 1919206.9/42

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: -501.985+/-324.749 $\chi^2$/NDF:5.7/4

Right Out: 551.948+/-238.640 $\chi^2$/NDF: 12.8/18

Left In: 658.264+/-395.505 $\chi^2$/NDF:2.4/2

Left: -34.751+/-250.982 $\chi^2$/NDF: 13.2/7

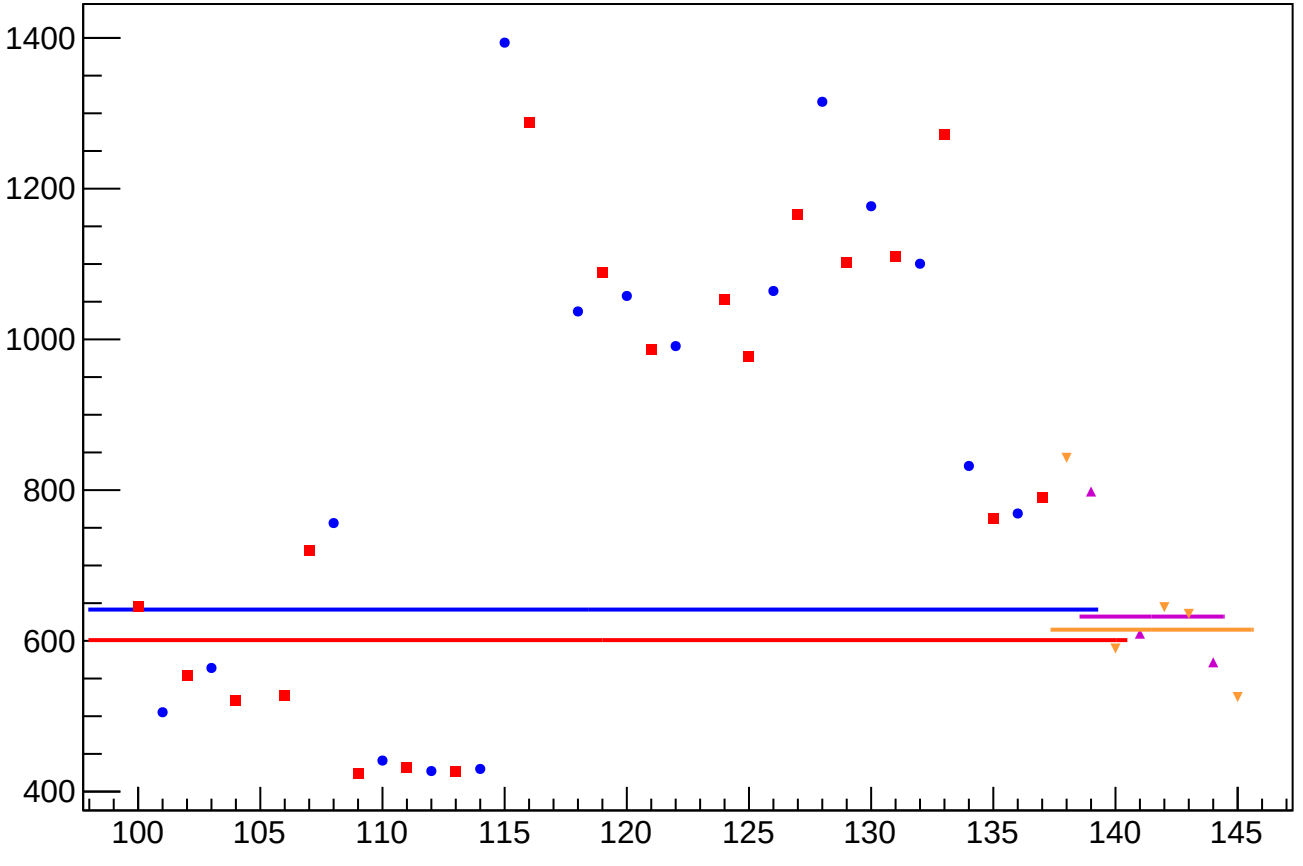
Right: 282.303+/-174.876 $\chi^2$/NDF: 37.4/34

In: 174.033+/-215.501 $\chi^2$/NDF:26.4/18

Out: 182.388+/-192.302 $\chi^2$/NDF:25.3/23

All: 178.684+/-143.481 $\chi^2$/NDF: 51.7/42

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: 614.826+/-0.230 $\chi^2$/NDF:166080.0/4

Right Out: 600.975+/-0.169 $\chi^2$/NDF: 2077232.5/18

Left In: 632.203+/-0.280 $\chi^2$/NDF:94707.8/2

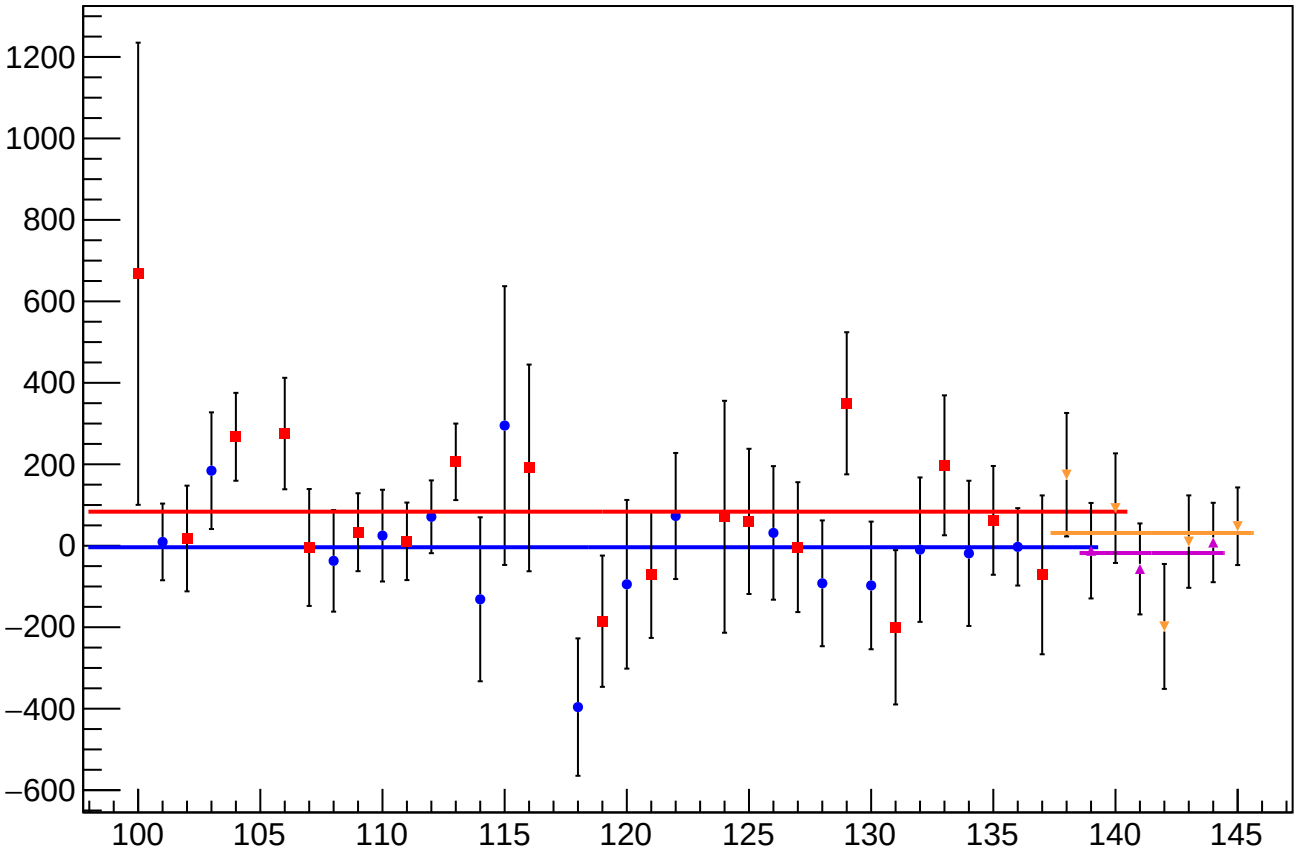
Left: 621.823+/-0.177 $\chi^2$/NDF: 263093.8/7

Right: 619.742+/-0.124 $\chi^2$/NDF: 3978895.7/34

In: 638.745+/-0.152 $\chi^2$/NDF:1970436.2/18

Out: 605.832+/-0.136 $\chi^2$/NDF:2245674.8/23

All: 620.422+/-0.101 $\chi^2$/NDF: 4242082.2/42




Right In: -3.635+/-34.152 $\chi^2$/NDF: 10.3/15

Left Out: 31.417+/-55.121 $\chi^2$/NDF:3.4/4

Right Out: 83.676+/-32.633 $\chi^2$/NDF: 19.1/18

Left In: -17.806+/-62.241 $\chi^2$/NDF:0.2/2

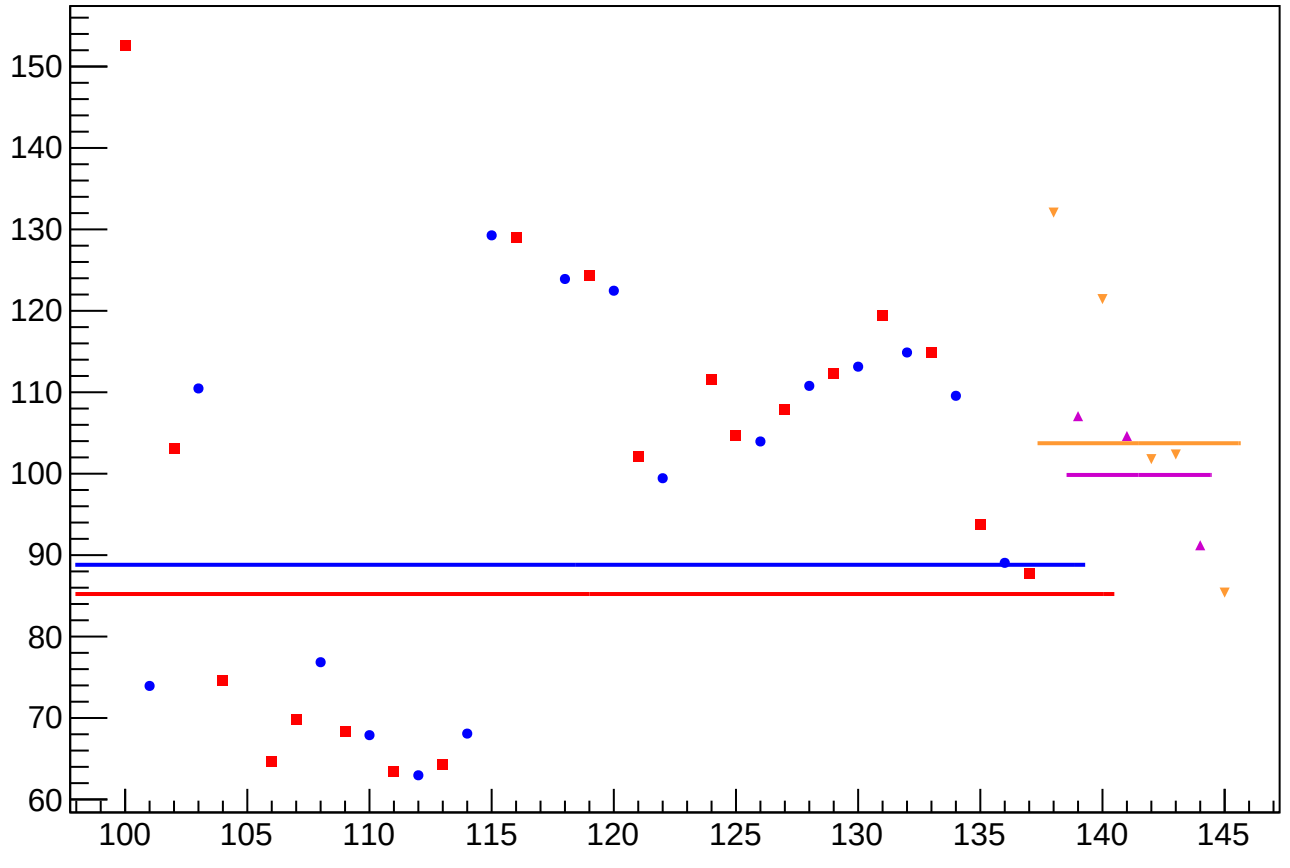
Left: 9.781+/-41.265 $\chi^2$/NDF: 3.9/7

Right: 42.007+/-23.594 $\chi^2$/NDF: 32.8/34

In: -6.914+/-29.941 $\chi^2$/NDF:10.6/18

Out: 70.114+/-28.081 $\chi^2$/NDF:23.1/23

All: 34.067+/-20.482 $\chi^2$/NDF: 37.2/42




Right In: 88.813+/-0.024 $\chi^2$/NDF: 724609.8/15

Left Out: 103.741+/-0.039 $\chi^2$/NDF:179204.3/4

Right Out: 85.225+/-0.023 $\chi^2$/NDF: 884071.4/18

Left In: 99.847+/-0.044 $\chi^2$/NDF:26944.4/2

Left: 102.029+/-0.029 $\chi^2$/NDF: 210536.1/7

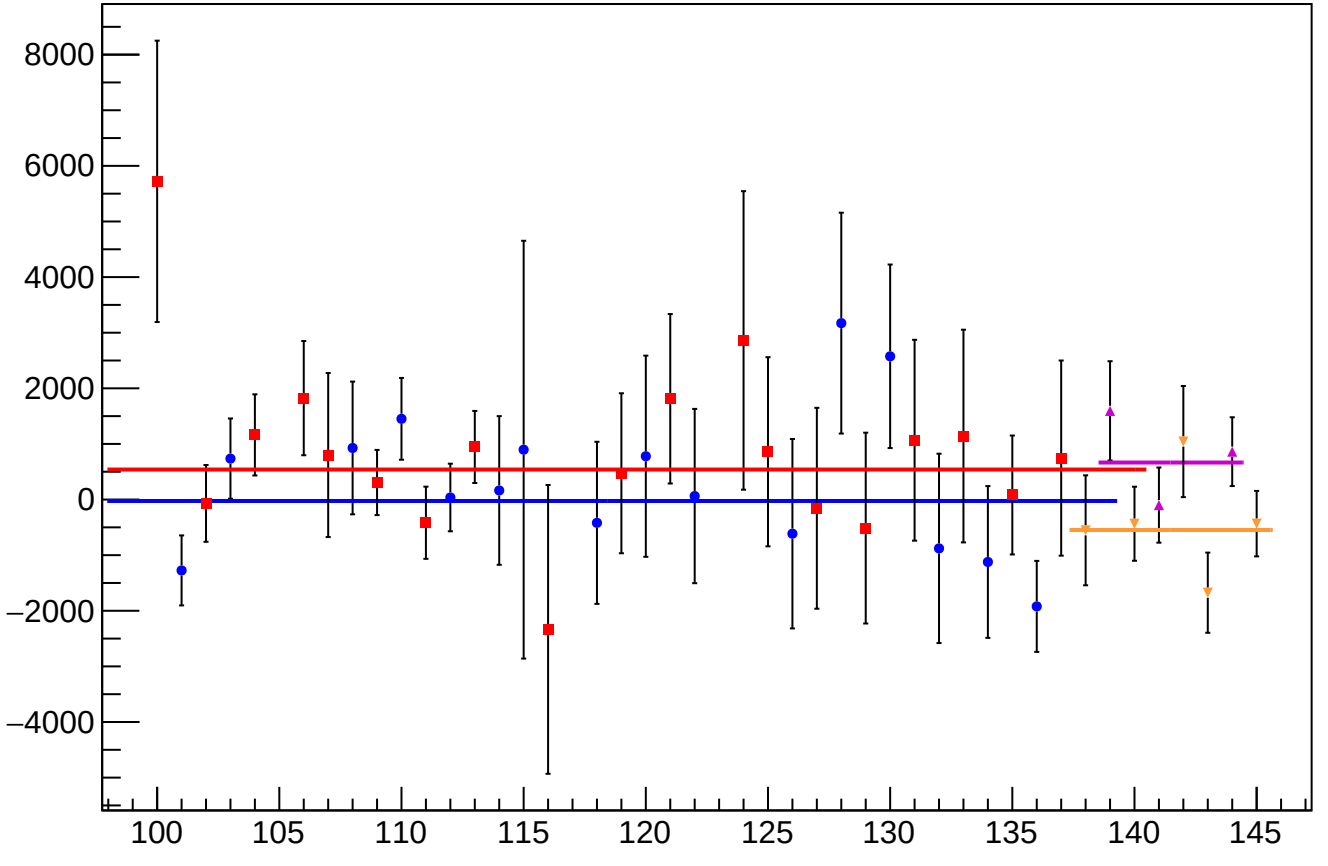
Right: 86.937+/-0.017 $\chi^2$/NDF: 1620225.0/34

In: 91.367+/-0.021 $\chi^2$/NDF:799860.1/18

Out: 90.030+/-0.020 $\chi^2$/NDF:1230389.8/23

All: 90.656+/-0.014 $\chi^2$/NDF: 2032370.1/42

asym_sam_1548_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -25.770+/-259.401 $\chi^2$/NDF: 21.6/15

Left Out: -547.565+/-331.687 $\chi^2$/NDF:5.0/4

Right Out: 539.635+/-241.238 $\chi^2$/NDF: 13.6/18

Left In: 665.657+/-406.186 $\chi^2$/NDF:2.5/2

Left: -62.210+/-256.912 $\chi^2$/NDF: 12.9/7

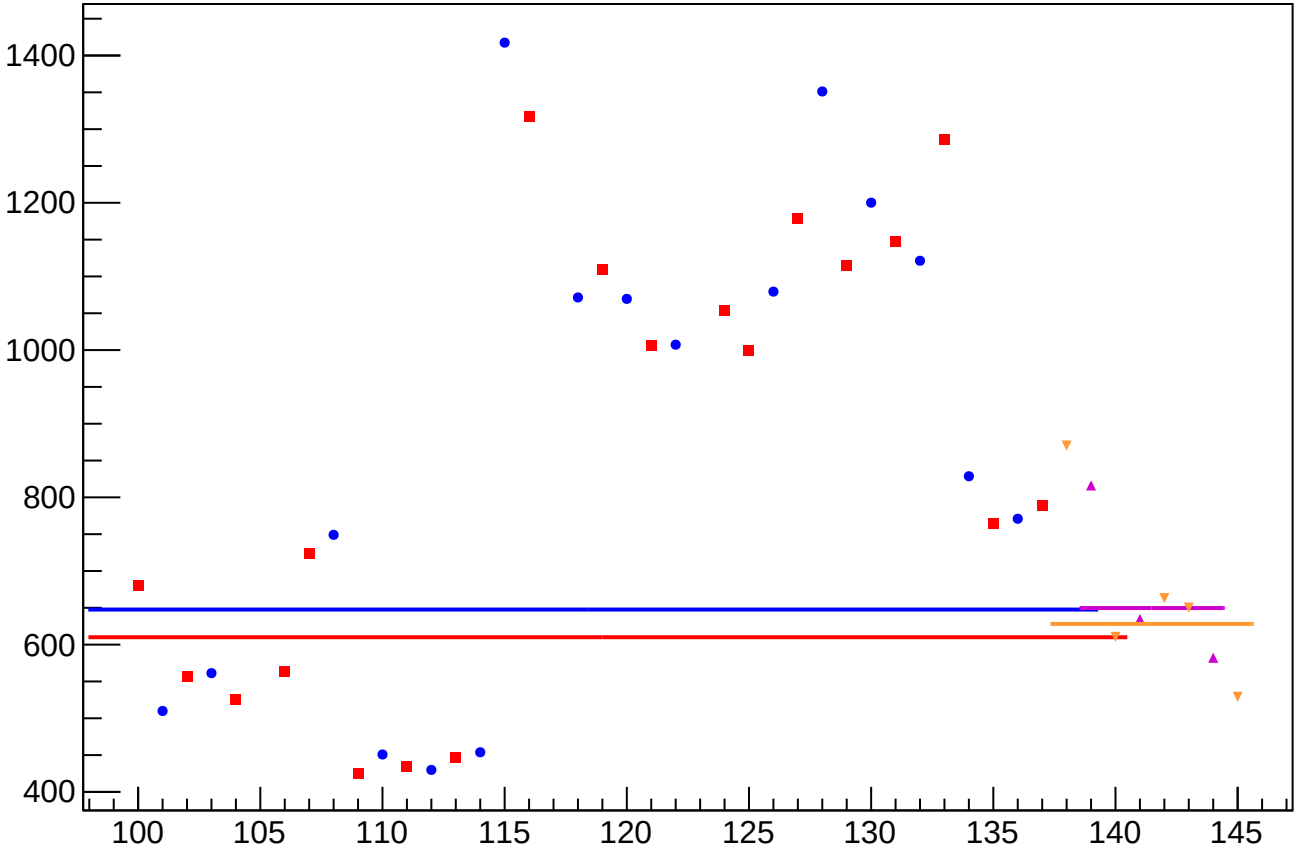
Right: 277.418+/-176.654 $\chi^2$/NDF: 37.7/34

In: 174.532+/-218.622 $\chi^2$/NDF:26.1/18

Out: 163.499+/-195.095 $\chi^2$/NDF:25.7/23

All: 168.390+/-145.563 $\chi^2$/NDF: 51.8/42

asym_sam_1548_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 647.641+/-0.183 $\chi^2$/NDF: 1887815.9/15

Left Out: 628.148+/-0.235 $\chi^2$/NDF:182166.8/4

Right Out: 610.061+/-0.171 $\chi^2$/NDF: 2074248.2/18

Left In: 649.693+/-0.287 $\chi^2$/NDF:94415.6/2

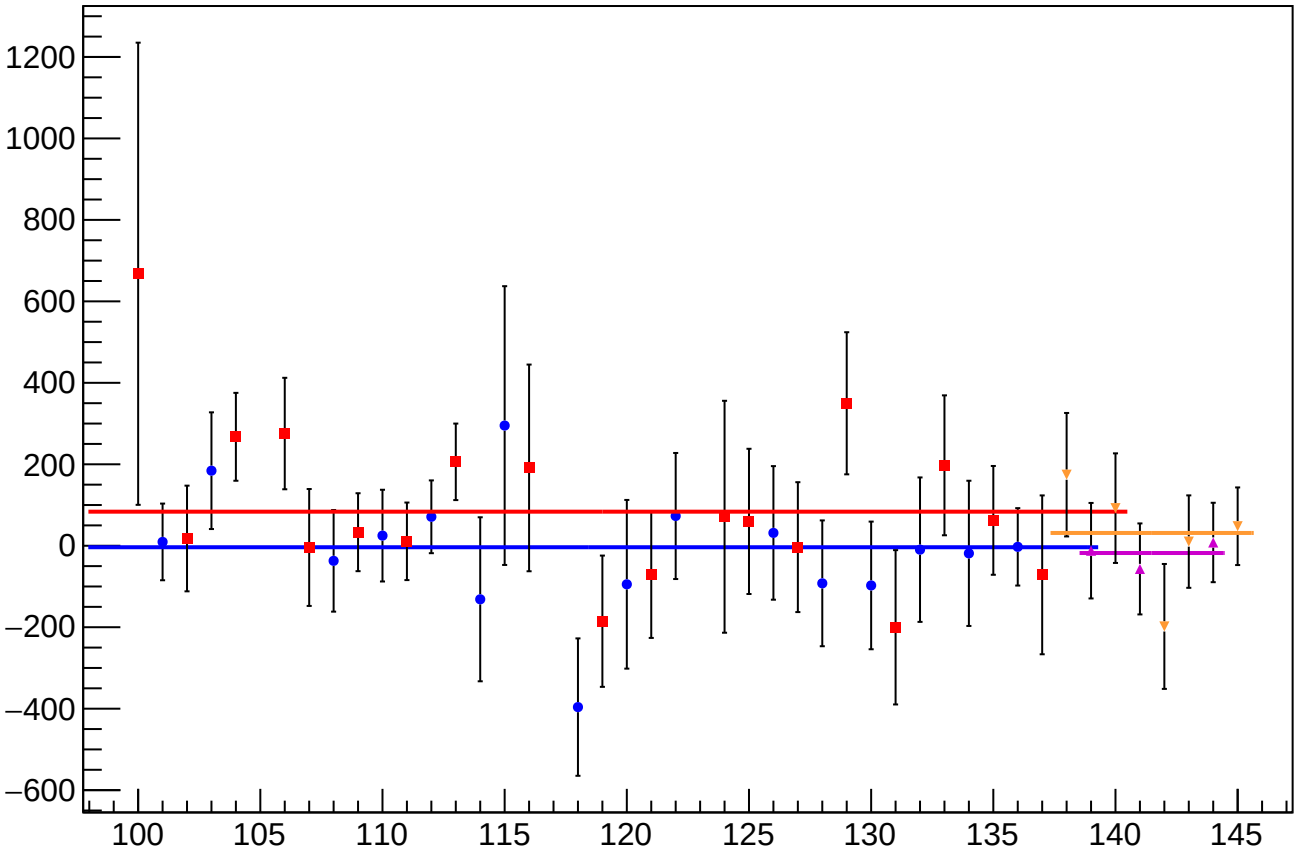
Left: 636.767+/-0.182 $\chi^2$/NDF: 279958.3/7

Right: 627.489+/-0.125 $\chi^2$/NDF: 3984572.9/34

In: 648.235+/-0.155 $\chi^2$/NDF:1982267.8/18

Out: 616.318+/-0.138 $\chi^2$/NDF:2260304.9/23

All: 630.468+/-0.103 $\chi^2$/NDF: 4266302.4/42




Right In: -3.633+/-34.152 $\chi^2$/NDF: 10.3/15

Left Out: 31.417+/-55.121 $\chi^2$/NDF:3.4/4

Right Out: 83.676+/-32.633 $\chi^2$/NDF: 19.1/18

Left In: -17.805+/-62.241 $\chi^2$/NDF:0.2/2

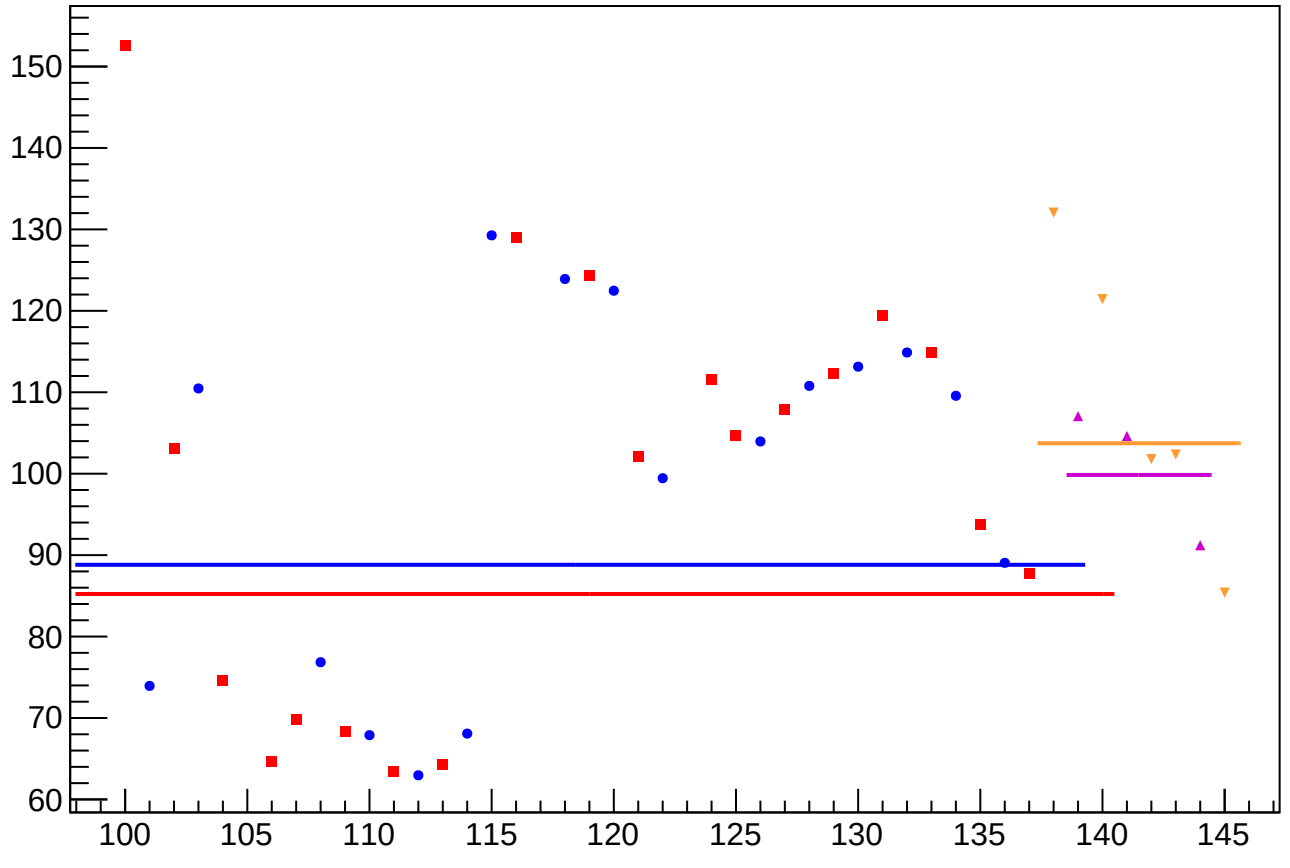
Left: 9.781+/-41.265 $\chi^2$/NDF: 3.9/7

Right: 42.007+/-23.594 $\chi^2$/NDF: 32.8/34

In: -6.913+/-29.941 $\chi^2$/NDF:10.6/18

Out: 70.113+/-28.081 $\chi^2$/NDF:23.1/23

All: 34.068+/-20.482 $\chi^2$/NDF: 37.2/42




Right In: 88.813+/-0.024 $\chi^2$/NDF: 724609.7/15

Left Out: 103.741+/-0.039 $\chi^2$/NDF:179202.7/4

Right Out: 85.225+/-0.023 $\chi^2$/NDF: 884073.3/18

Left In: 99.847+/-0.044 $\chi^2$/NDF:26944.0/2

Left: 102.030+/-0.029 $\chi^2$/NDF: 210534.1/7

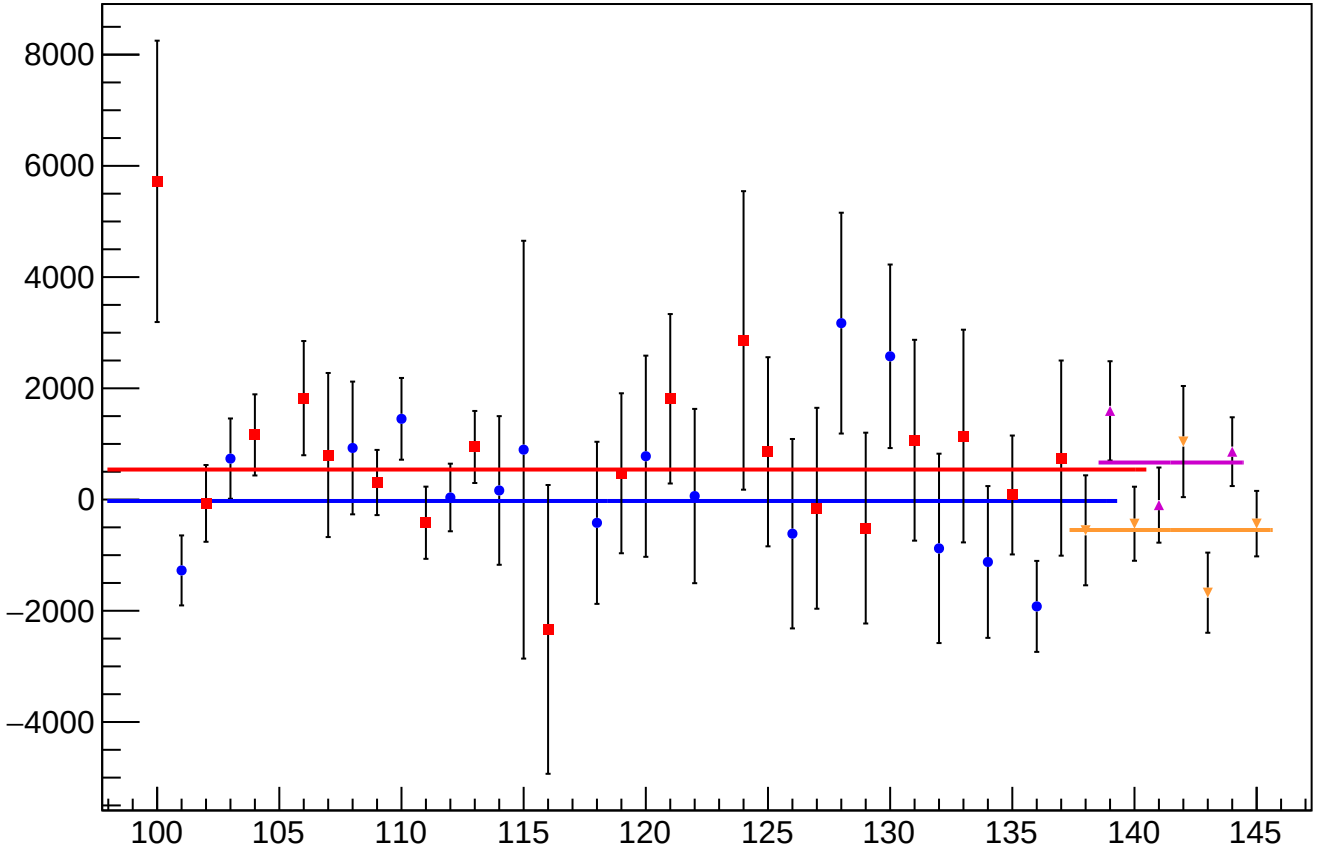
Right: 86.937+/-0.017 $\chi^2$/NDF: 1620226.9/34

In: 91.367+/-0.021 $\chi^2$/NDF:799861.5/18

Out: 90.030+/-0.020 $\chi^2$/NDF:1230394.8/23

All: 90.656+/-0.014 $\chi^2$/NDF: 2032376.5/42

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: -547.566+/-331.687 $\chi^2$/NDF:5.0/4

Right Out: 539.635+/-241.238 $\chi^2$/NDF: 13.6/18

Left In: 665.657+/-406.186 $\chi^2$/NDF:2.5/2

Left: -62.211+/-256.912 $\chi^2$/NDF: 12.9/7

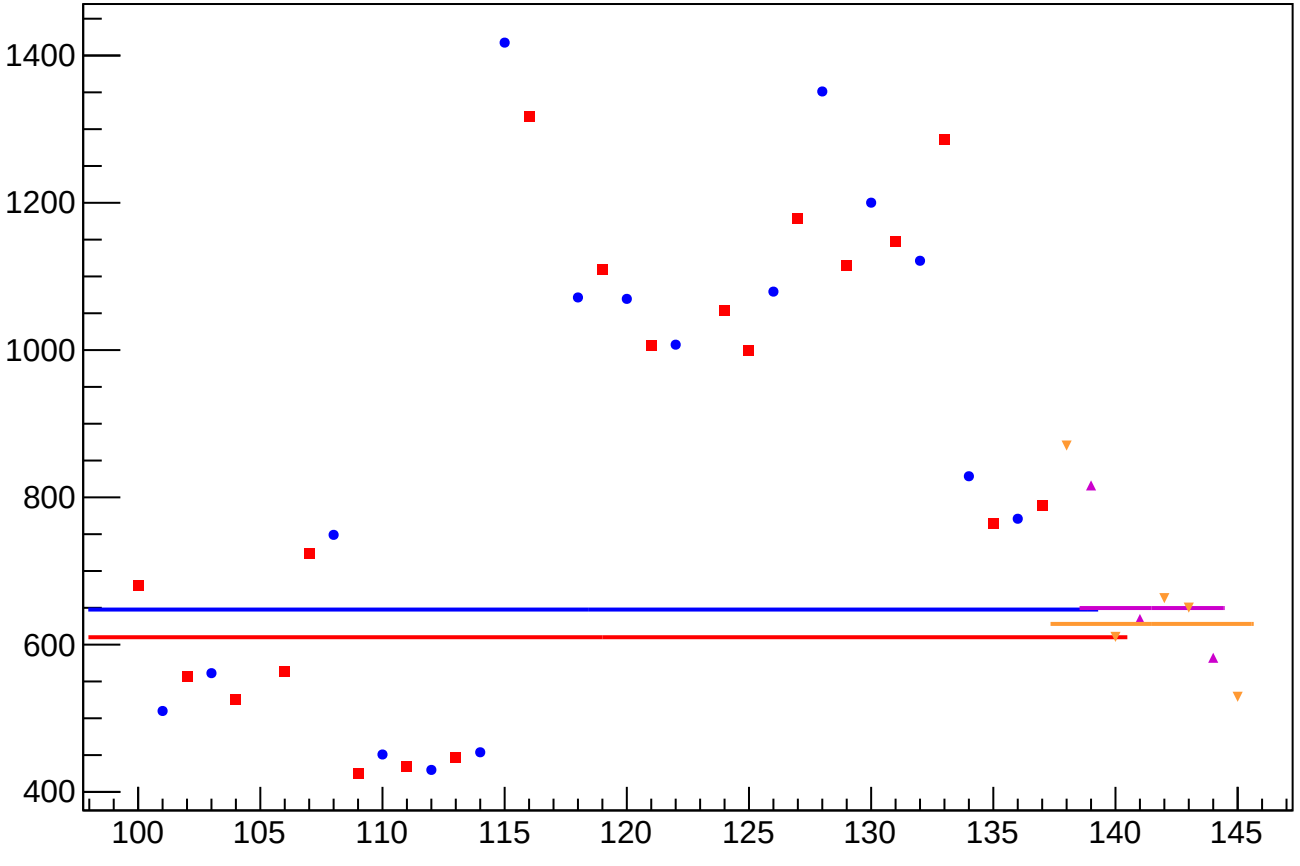
Right: 277.418+/-176.653 $\chi^2$/NDF: 37.7/34

In: 174.532+/-218.622 $\chi^2$/NDF:26.1/18

Out: 163.499+/-195.095 $\chi^2$/NDF:25.7/23

All: 168.390+/-145.563 $\chi^2$/NDF: 51.8/42

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: 628.147+/-0.235 $\chi^2$/NDF:182167.8/4

Right Out: 610.060+/-0.171 $\chi^2$/NDF: 2074251.1/18

Left In: 649.693+/-0.287 $\chi^2$/NDF:94415.6/2

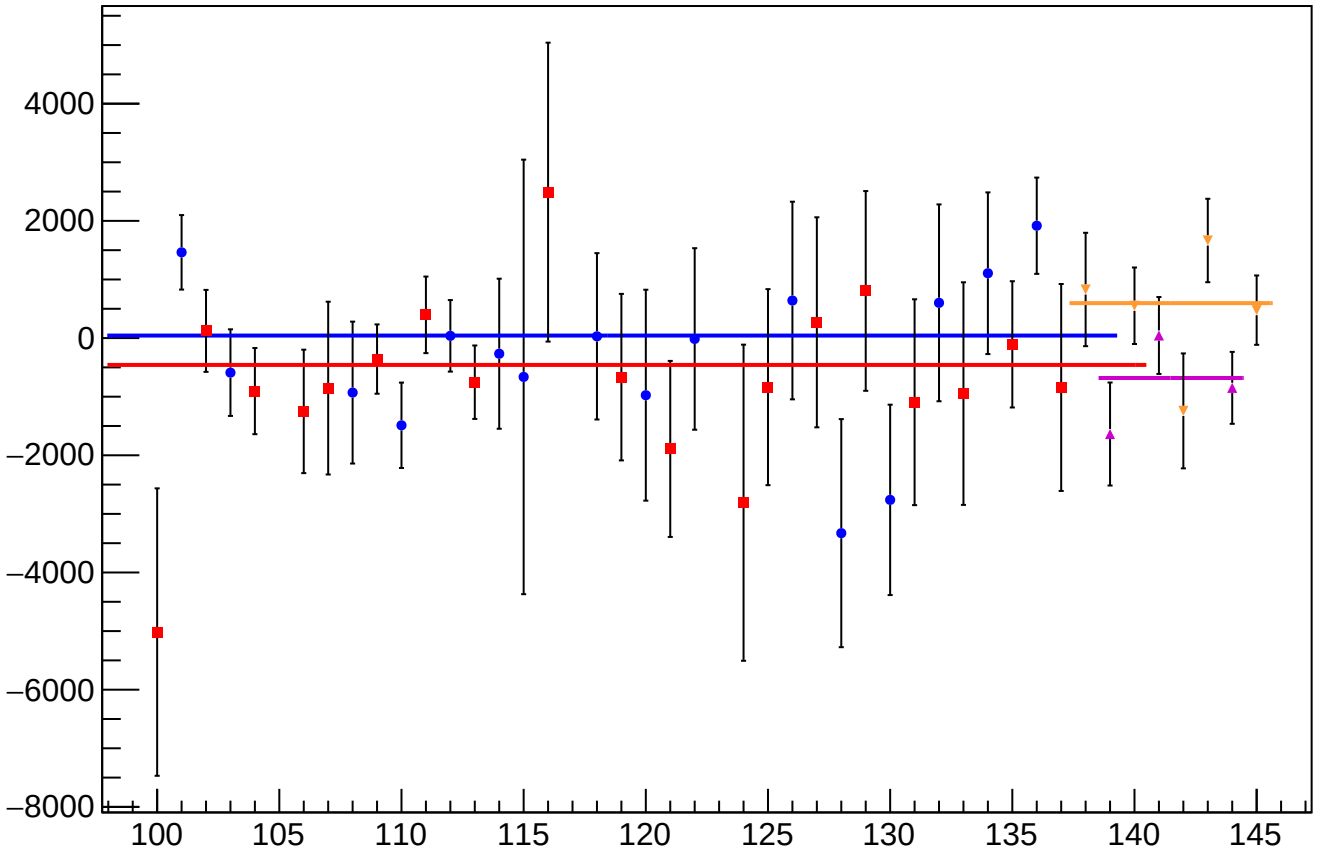
Left: 636.767+/-0.182 $\chi^2$/NDF: 279959.5/7

Right: 627.488+/-0.125 $\chi^2$/NDF: 3984580.5/34

In: 648.235+/-0.155 $\chi^2$/NDF:1982272.5/18

Out: 616.318+/-0.138 $\chi^2$/NDF:2260308.7/23

All: 630.467+/-0.103 $\chi^2$/NDF: 4266311.2/42




Right In: 43.152+/-259.796 $\chi^2$/NDF: 23.2/15

Left Out: 596.371+/-328.181 $\chi^2$/NDF:5.9/4

Right Out: -458.111+/-241.118 $\chi^2$/NDF: 11.3/18

Left In: -680.957+/-399.274 $\chi^2$/NDF:2.5/2

Left: 81.357+/-253.530 $\chi^2$/NDF: 14.5/7

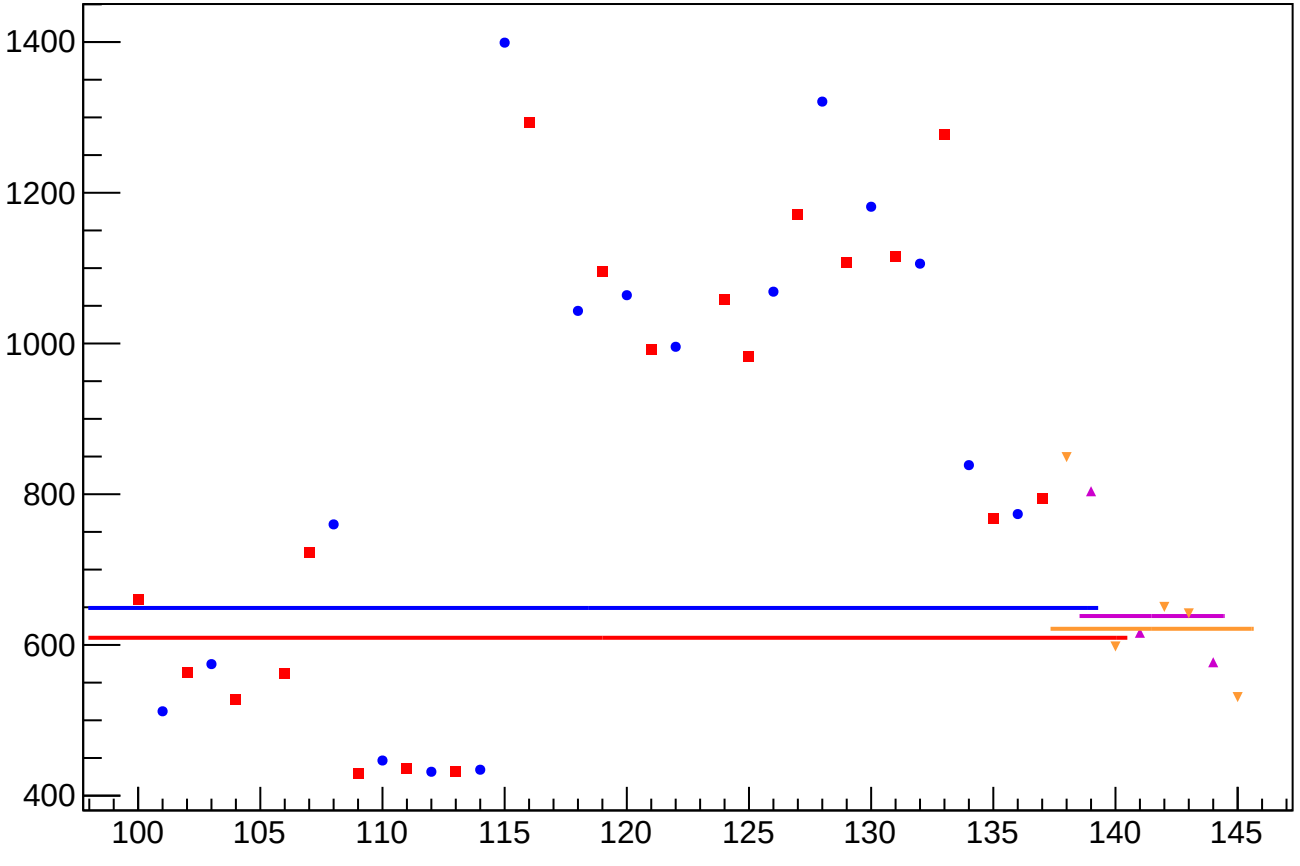
Right: -226.145+/-176.731 $\chi^2$/NDF: 36.5/34

In: -172.229+/-217.758 $\chi^2$/NDF:28.0/18

Out: -88.448+/-194.311 $\chi^2$/NDF:23.8/23

All: -125.587+/-144.982 $\chi^2$/NDF: 51.9/42

# asym_sam_1548_avg_rms vs Slug, Sign Corrected




Right In: 649.091+/-0.184 $\chi^2$/NDF: 1845815.6/15

Left Out: 621.445+/-0.232 $\chi^2$/NDF:163825.5/4

Right Out: 609.516+/-0.170 $\chi^2$/NDF: 2043591.1/18

Left In: 638.373+/-0.282 $\chi^2$/NDF:93265.2/2

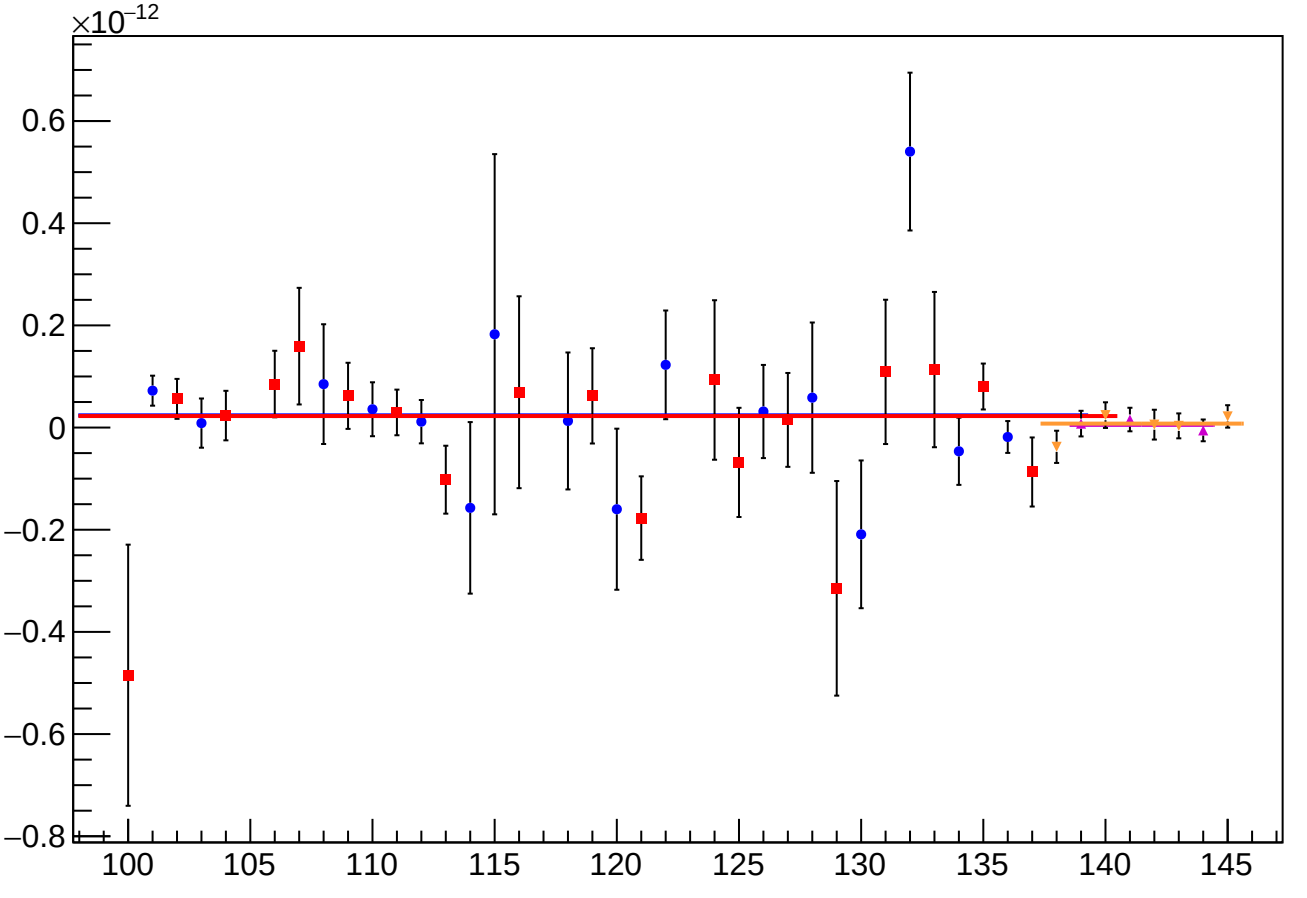
Left: 628.270+/-0.179 $\chi^2$/NDF: 259236.2/7

Right: 627.830+/-0.125 $\chi^2$/NDF: 3914338.8/34

In: 645.903+/-0.154 $\chi^2$/NDF:1940093.3/18

Out: 613.698+/-0.137 $\chi^2$/NDF:2209132.6/23

All: 627.974+/-0.103 $\chi^2$/NDF: 4173579.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.5/2

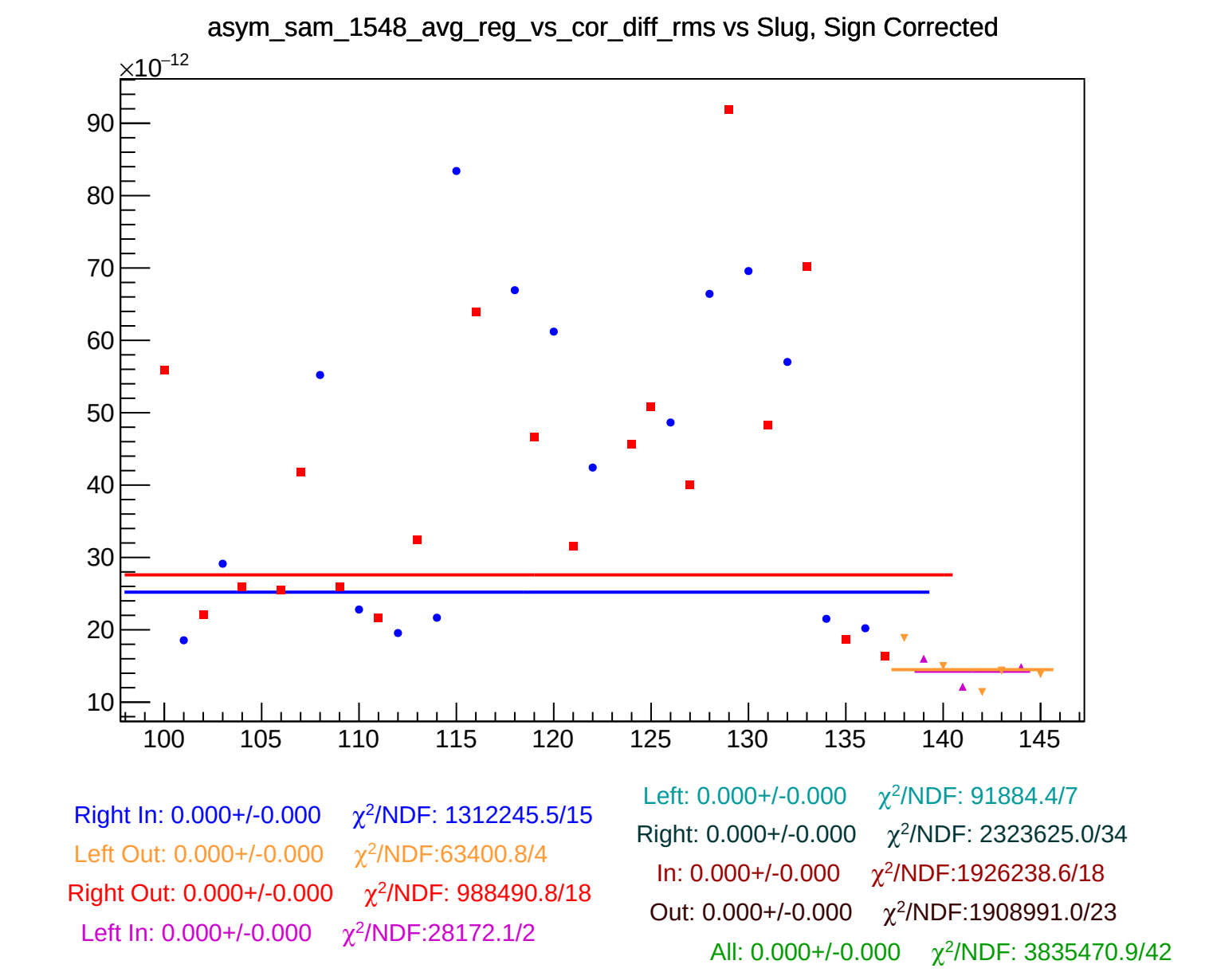
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.5/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 49.3/34

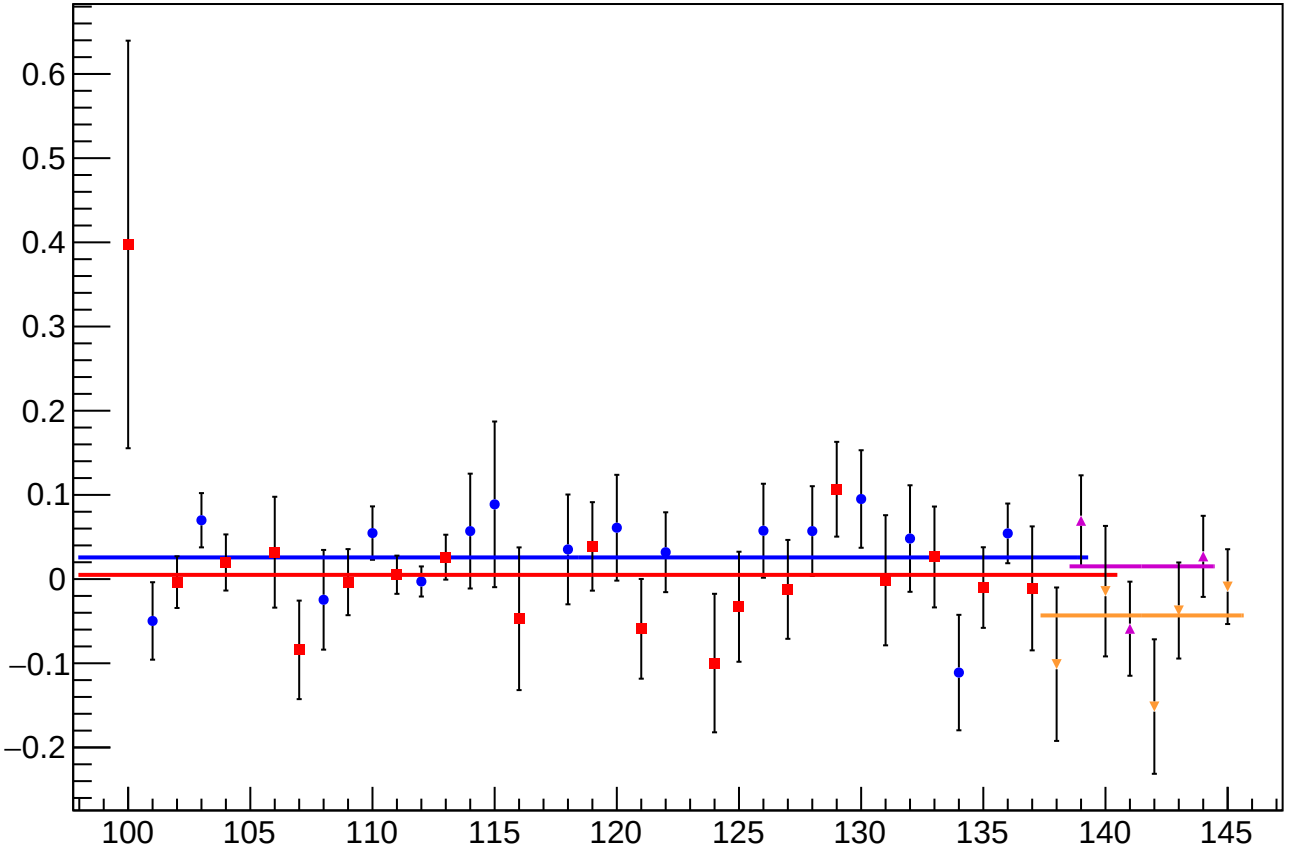
In: 0.000+/-0.000 $\chi^2$/NDF:25.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:29.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 54.2/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1312245.5/15
Left Out: 0.000+/-0.000 χ²/NDF:63400.8/4
Right Out: 0.000+/-0.000 χ²/NDF: 988490.8/18
Left In: 0.000+/-0.000 χ²/NDF:28172.1/2
Left: 0.000+/-0.000 χ²/NDF: 91884.4/7
Right: 0.000+/-0.000 χ²/NDF: 2323625.0/34
In: 0.000+/-0.000 χ²/NDF:1926238.6/18
Out: 0.000+/-0.000 χ²/NDF:1908991.0/23
All: 0.000+/-0.000 χ²/NDF: 3835470.9/42

asym_sam_1548_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.043+/-0.028 $\chi^2$/NDF:3.0/4

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.015+/-0.030 $\chi^2$/NDF:2.8/2

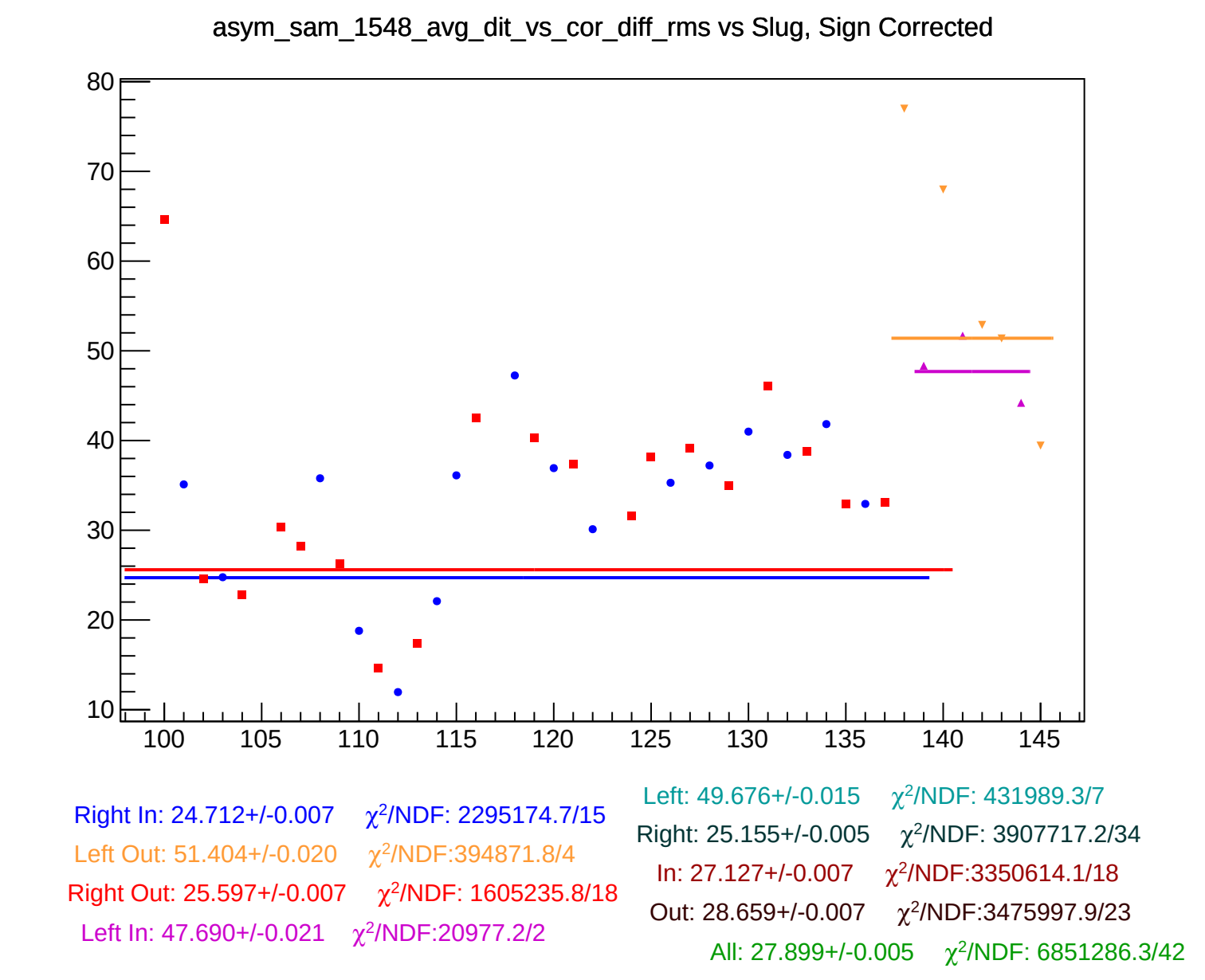
Left: -0.016+/-0.021 $\chi^2$/NDF: 7.8/7

Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

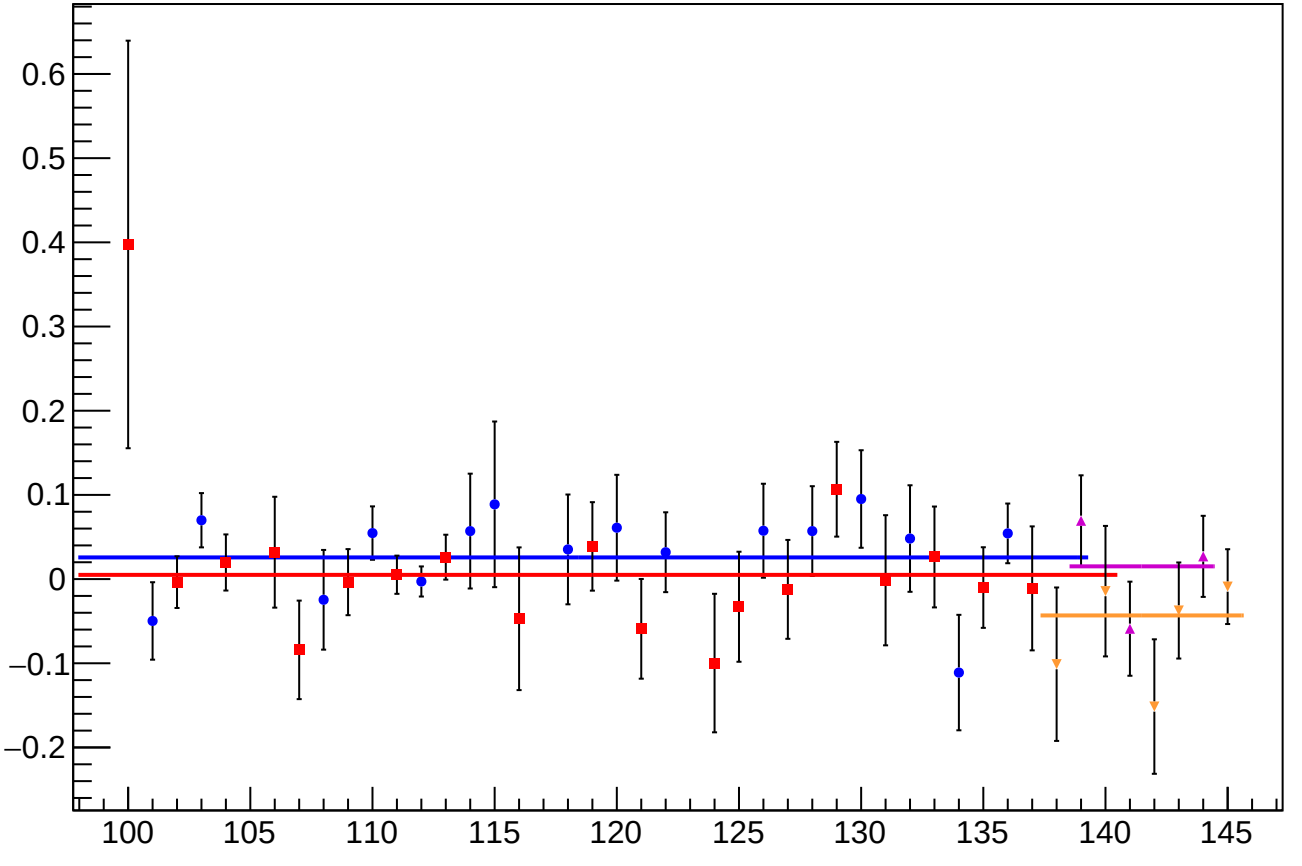
In: 0.025+/-0.010 $\chi^2$/NDF:19.4/18

Out: -0.001+/-0.010 $\chi^2$/NDF:19.2/23

All: 0.012+/-0.007 $\chi^2$/NDF: 42.0/42


asym_sam_1548_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected
80
70
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 24.712+/-0.007 χ²/NDF: 2295174.7/15
Left Out: 51.404+/-0.020 χ²/NDF:394871.8/4
Right Out: 25.597+/-0.007 χ²/NDF: 1605235.8/18
Left In: 47.690+/-0.021 χ²/NDF:20977.2/2
Left: 49.676+/-0.015 χ²/NDF: 431989.3/7
Right: 25.155+/-0.005 χ²/NDF: 3907717.2/34
In: 27.127+/-0.007 χ²/NDF:3350614.1/18
Out: 28.659+/-0.007 χ²/NDF:3475997.9/23
All: 27.899+/-0.005 χ²/NDF: 6851286.3/42

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: -0.043+/-0.028 $\chi^2$/NDF:3.0/4

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.015+/-0.030 $\chi^2$/NDF:2.8/2

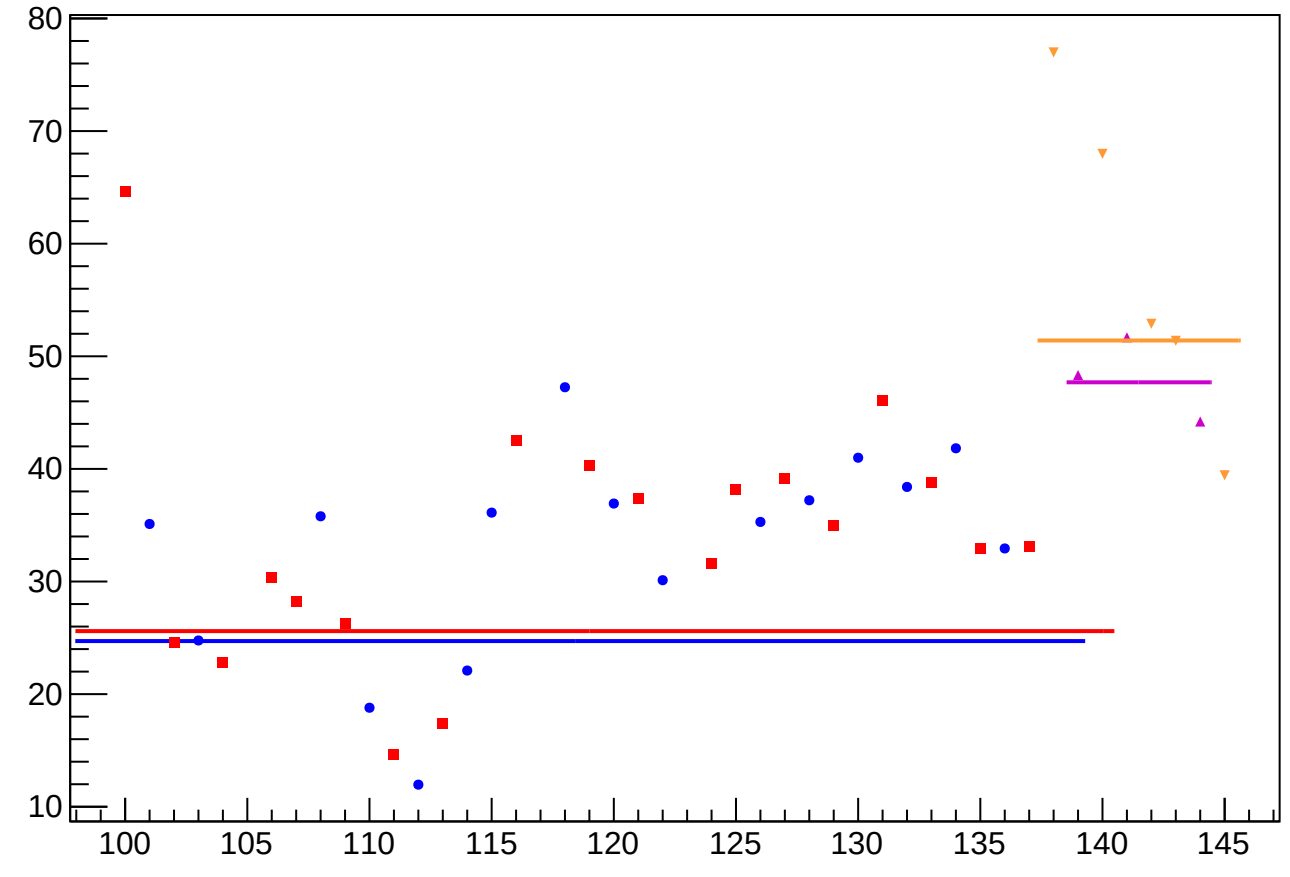
Left: -0.016+/-0.021 $\chi^2$/NDF: 7.8/7

Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.025+/-0.010 $\chi^2$/NDF:19.4/18

Out: -0.001+/-0.010 $\chi^2$/NDF:19.2/23

All: 0.012+/-0.007 $\chi^2$/NDF: 42.0/42




Right In: 24.712+/-0.007 $\chi^2$/NDF: 2295174.7/15

Left Out: 51.404+/-0.020 $\chi^2$/NDF:394871.8/4

Right Out: 25.597+/-0.007 $\chi^2$/NDF: 1605235.8/18

Left In: 47.690+/-0.021 $\chi^2$/NDF:20977.2/2

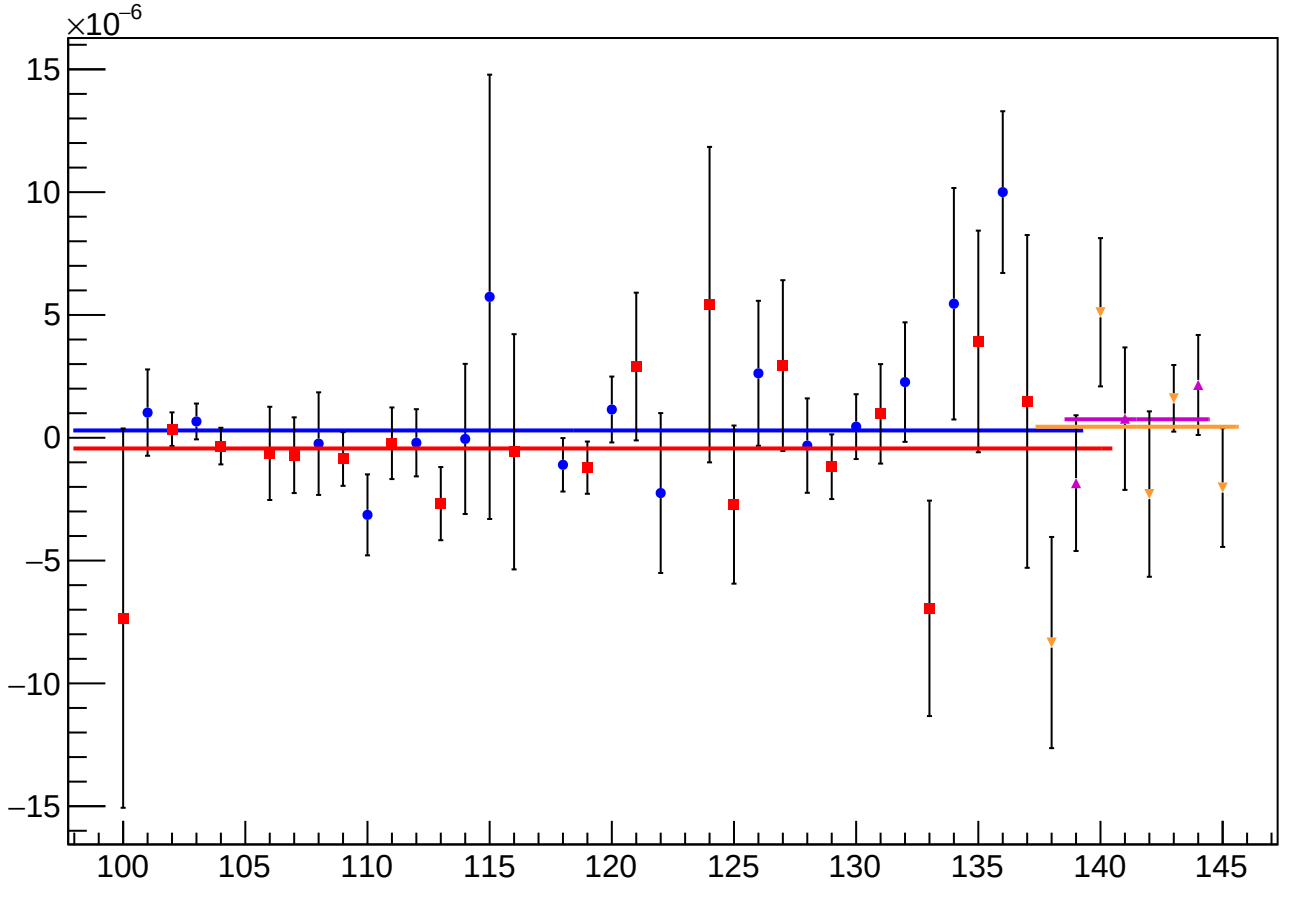
Left: 49.676+/-0.015 $\chi^2$/NDF: 431989.3/7

Right: 25.155+/-0.005 $\chi^2$/NDF: 3907717.2/34

In: 27.127+/-0.007 $\chi^2$/NDF:3350614.1/18

Out: 28.659+/-0.007 $\chi^2$/NDF:3475997.9/23

All: 27.899+/-0.005 $\chi^2$/NDF: 6851286.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:9.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.4/2

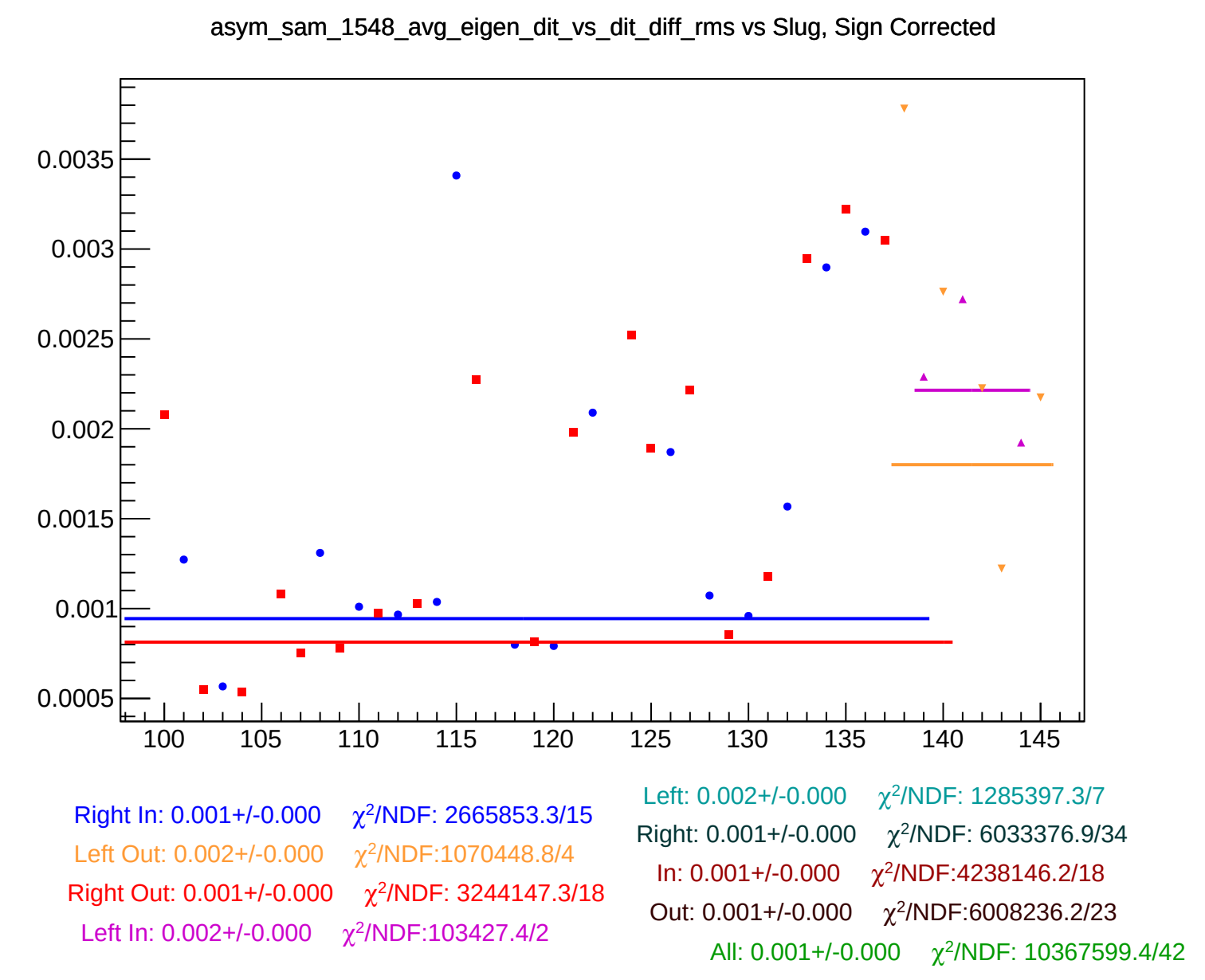
Left: 0.000+/-0.000 $\chi^2$/NDF: 10.4/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 33.9/34

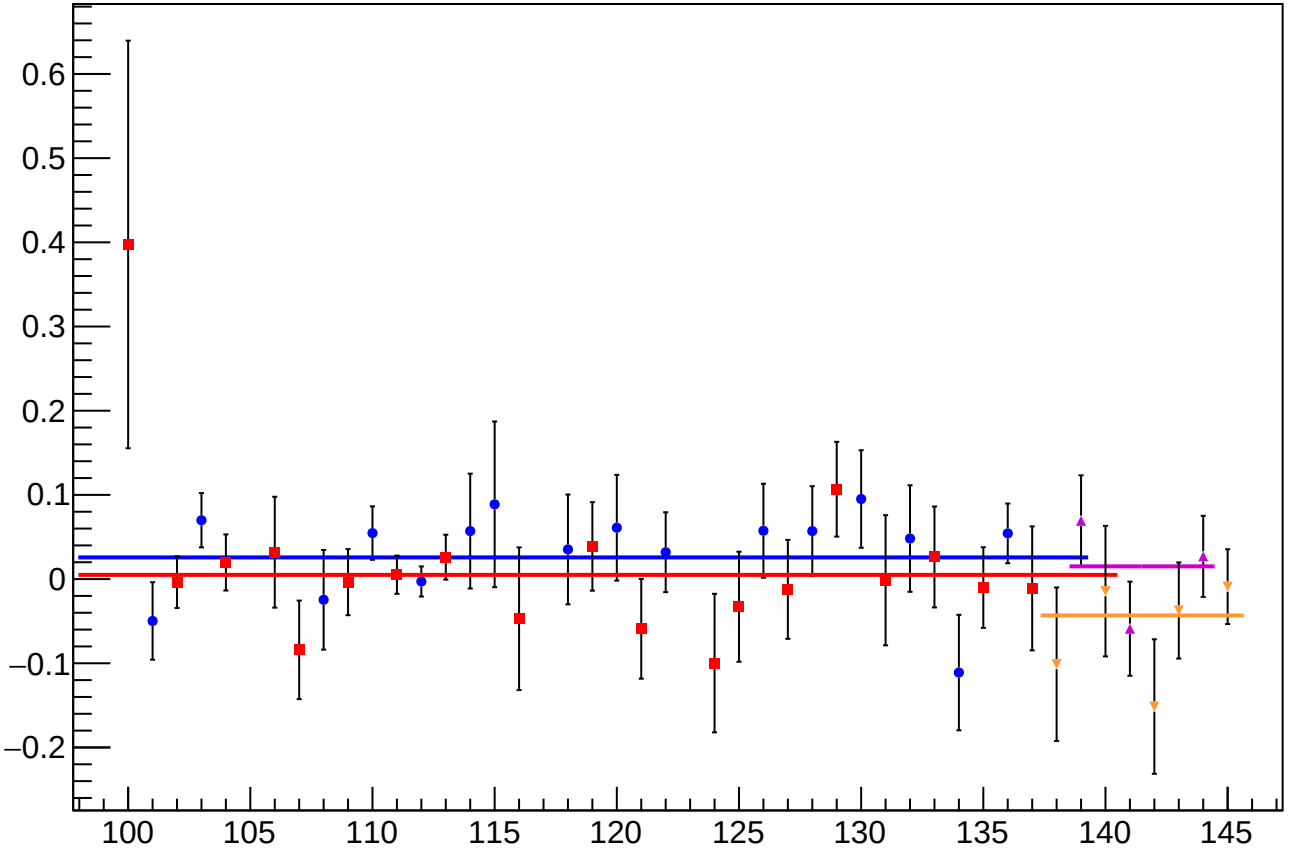
In: 0.000+/-0.000 $\chi^2$/NDF:20.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:22.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 44.9/42


asym_sam_1548_avg_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
105
110
115
120
125
130
135
140
145
Right In: 0.001+/-0.000 χ²/NDF: 2665853.3/15
Left Out: 0.002+/-0.000 χ²/NDF:1070448.8/4
Right Out: 0.001+/-0.000 χ²/NDF: 3244147.3/18
Left In: 0.002+/-0.000 χ²/NDF:103427.4/2
Left: 0.002+/-0.000 χ²/NDF: 1285397.3/7
Right: 0.001+/-0.000 χ²/NDF: 6033376.9/34
In: 0.001+/-0.000 χ²/NDF:4238146.2/18
Out: 0.001+/-0.000 χ²/NDF:6008236.2/23
All: 0.001+/-0.000 χ²/NDF: 10367599.4/42

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.010 $\chi^2$/NDF: 16.5/15

Left Out: -0.043+/-0.028 $\chi^2$/NDF:3.0/4

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.015+/-0.030 $\chi^2$/NDF:2.8/2

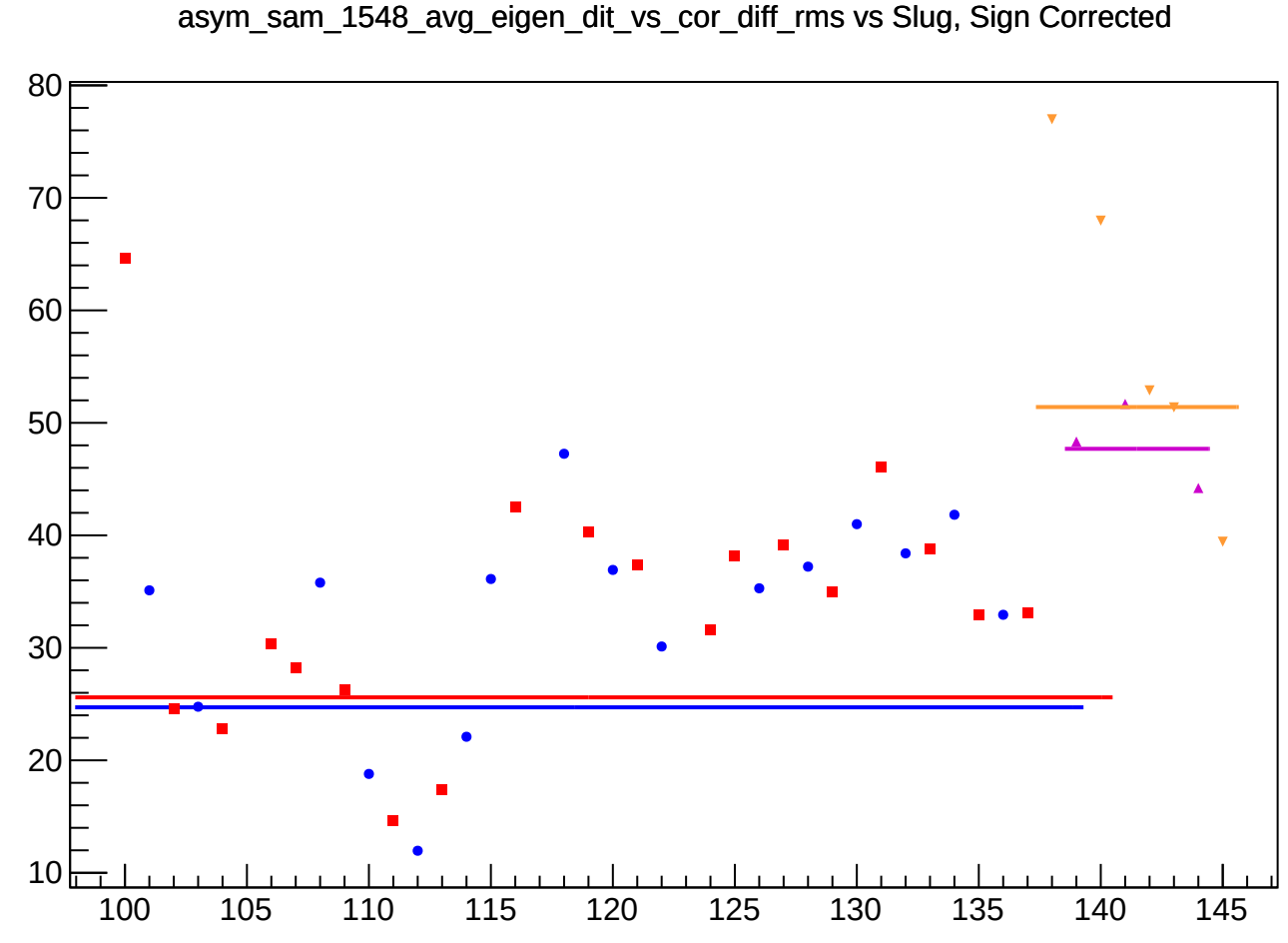
Left: -0.016+/-0.021 $\chi^2$/NDF: 7.8/7

Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.025+/-0.010 $\chi^2$/NDF:19.4/18

Out: -0.001+/-0.010 $\chi^2$/NDF:19.2/23

All: 0.012+/-0.007 $\chi^2$/NDF: 42.0/42




Right In: 24.712+/-0.007 $\chi^2$/NDF: 2295351.2/15

Left Out: 51.405+/-0.020 $\chi^2$/NDF:394858.6/4

Right Out: 25.597+/-0.007 $\chi^2$/NDF: 1605387.3/18

Left In: 47.691+/-0.021 $\chi^2$/NDF:20977.5/2

Left: 49.676+/-0.015 $\chi^2$/NDF: 431977.2/7

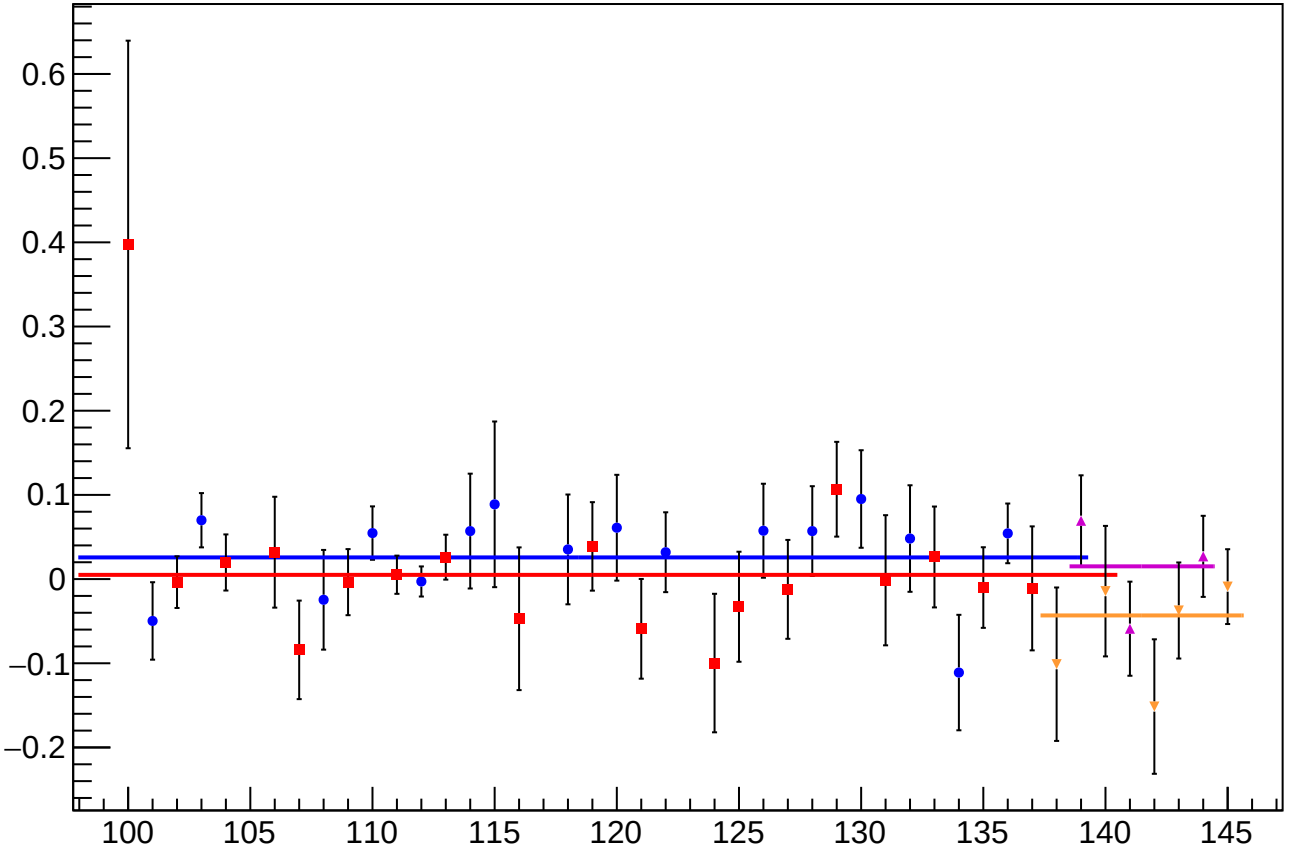
Right: 25.155+/-0.005 $\chi^2$/NDF: 3908047.8/34

In: 27.126+/-0.007 $\chi^2$/NDF:3350870.0/18

Out: 28.659+/-0.007 $\chi^2$/NDF:3476228.1/23

All: 27.899+/-0.005 $\chi^2$/NDF: 6851777.8/42

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: -0.043+/-0.028 $\chi^2$/NDF:3.0/4

Right Out: 0.005+/-0.010 $\chi^2$/NDF: 13.6/18

Left In: 0.015+/-0.030 $\chi^2$/NDF:2.8/2

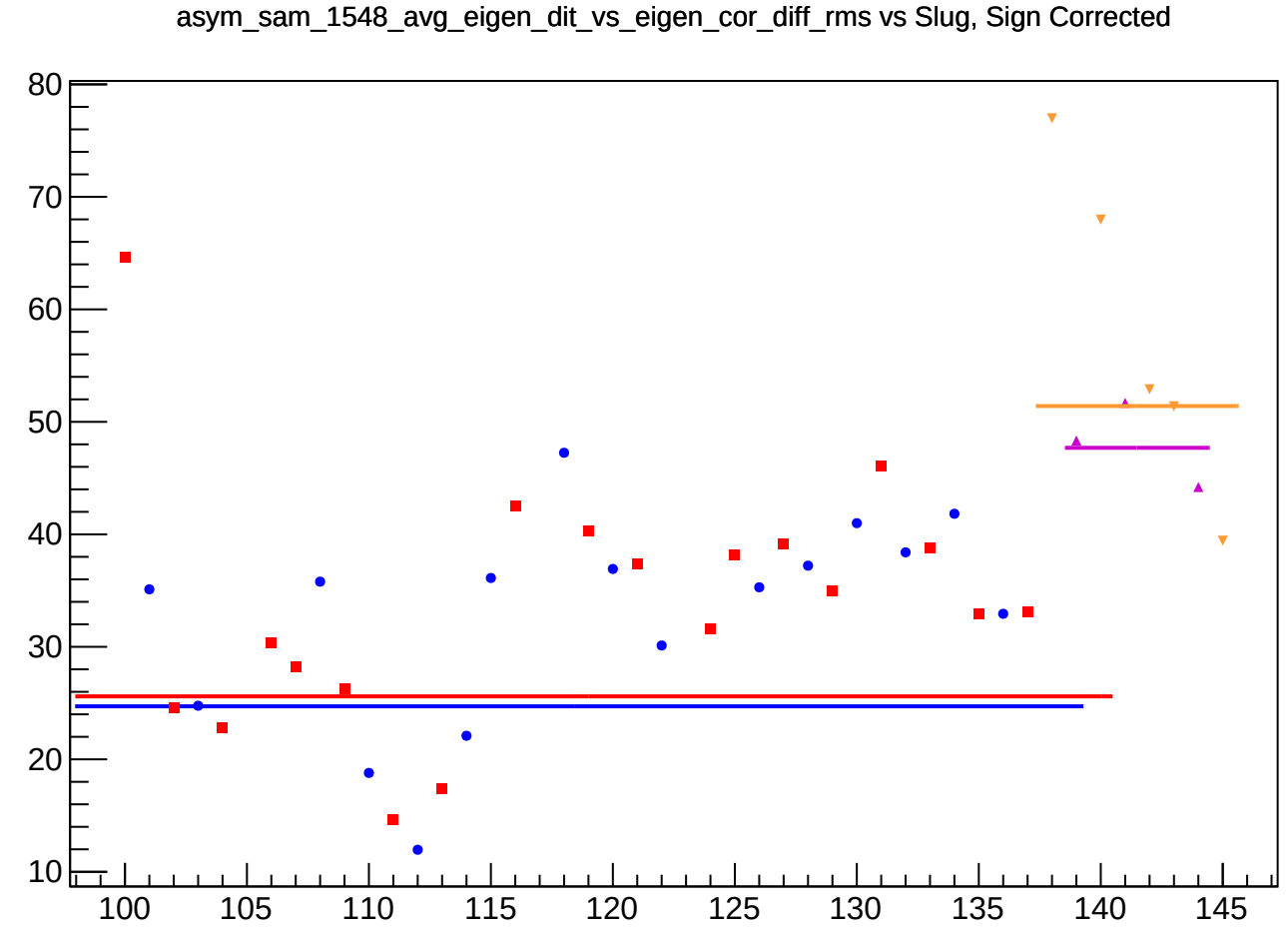
Left: -0.016+/-0.021 $\chi^2$/NDF: 7.8/7

Right: 0.015+/-0.007 $\chi^2$/NDF: 32.1/34

In: 0.025+/-0.010 $\chi^2$/NDF:19.4/18

Out: -0.001+/-0.010 $\chi^2$/NDF:19.2/23

All: 0.012+/-0.007 $\chi^2$/NDF: 42.0/42




Right In: 24.712+/-0.007 $\chi^2$/NDF: 2295351.2/15

Left Out: 51.405+/-0.020 $\chi^2$/NDF:394858.6/4

Right Out: 25.597+/-0.007 $\chi^2$/NDF: 1605387.3/18

Left In: 47.691+/-0.021 $\chi^2$/NDF:20977.5/2

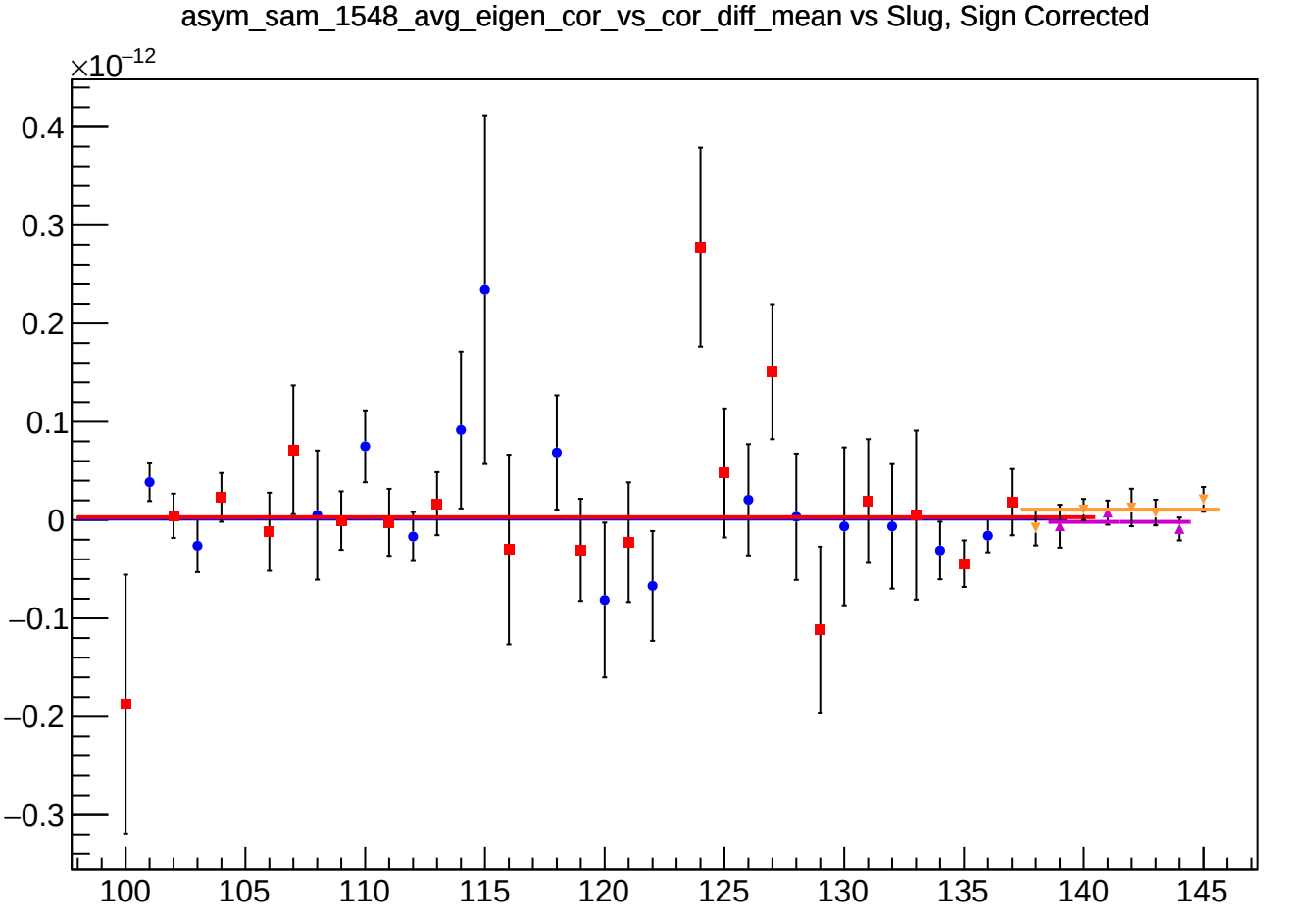
Left: 49.676+/-0.015 $\chi^2$/NDF: 431977.2/7

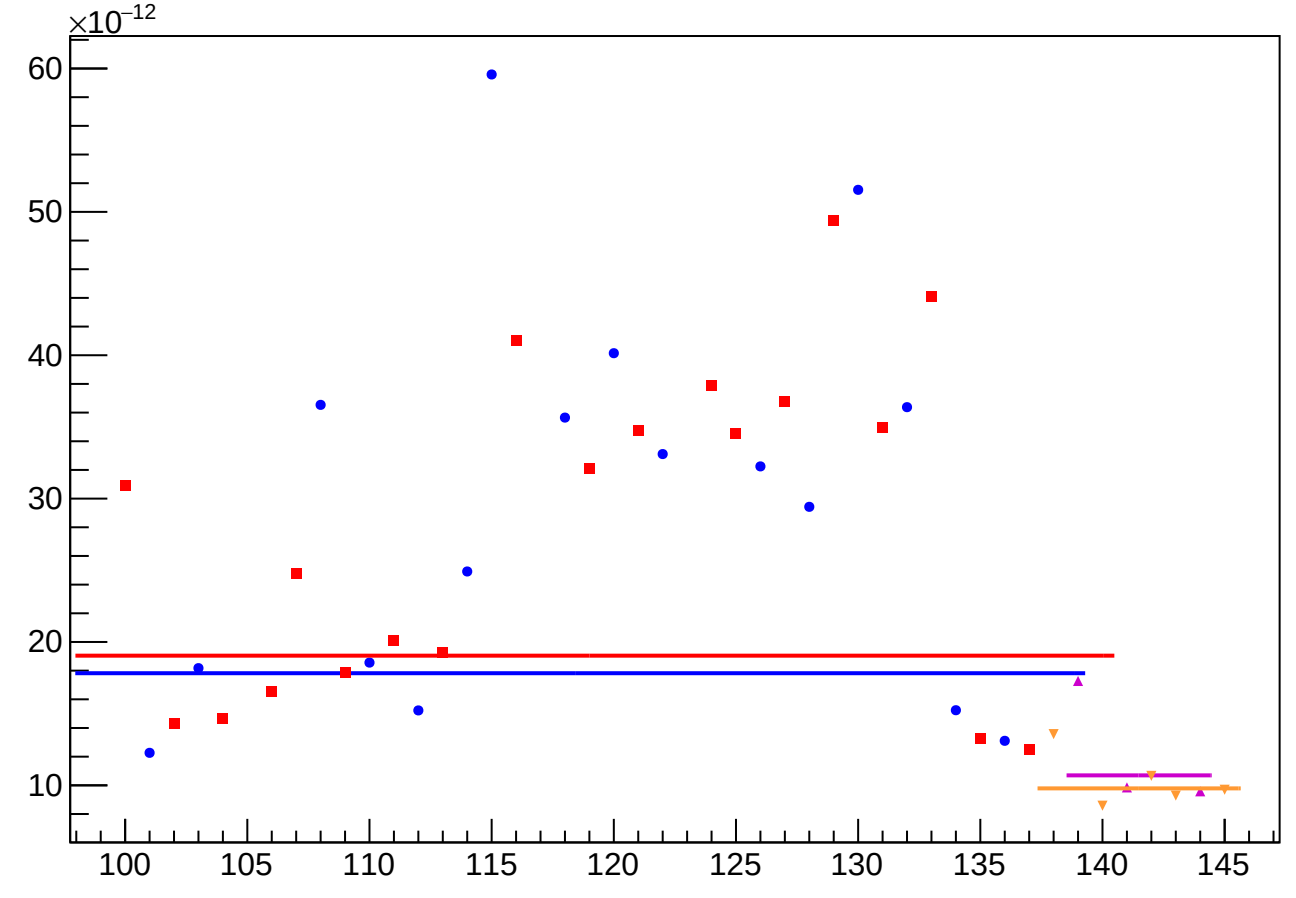
Right: 25.155+/-0.005 $\chi^2$/NDF: 3908047.8/34

In: 27.126+/-0.007 $\chi^2$/NDF:3350870.0/18

Out: 28.659+/-0.007 $\chi^2$/NDF:3476228.1/23

All: 27.899+/-0.005 $\chi^2$/NDF: 6851777.8/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 18.7/15
Left Out: 0.000+/-0.000 χ²/NDF:1.8/4
Right Out: 0.000+/-0.000 χ²/NDF: 23.5/18
Left In: -0.000+/-0.000 χ²/NDF:1.0/2
Left: 0.000+/-0.000 χ²/NDF: 4.3/7
Right: 0.000+/-0.000 χ²/NDF: 42.2/34
In: -0.000+/-0.000 χ²/NDF:19.8/18
Out: 0.000+/-0.000 χ²/NDF:25.7/23
All: 0.000+/-0.000 χ²/NDF: 46.8/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1869965.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:119104.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1620721.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:209612.2/2

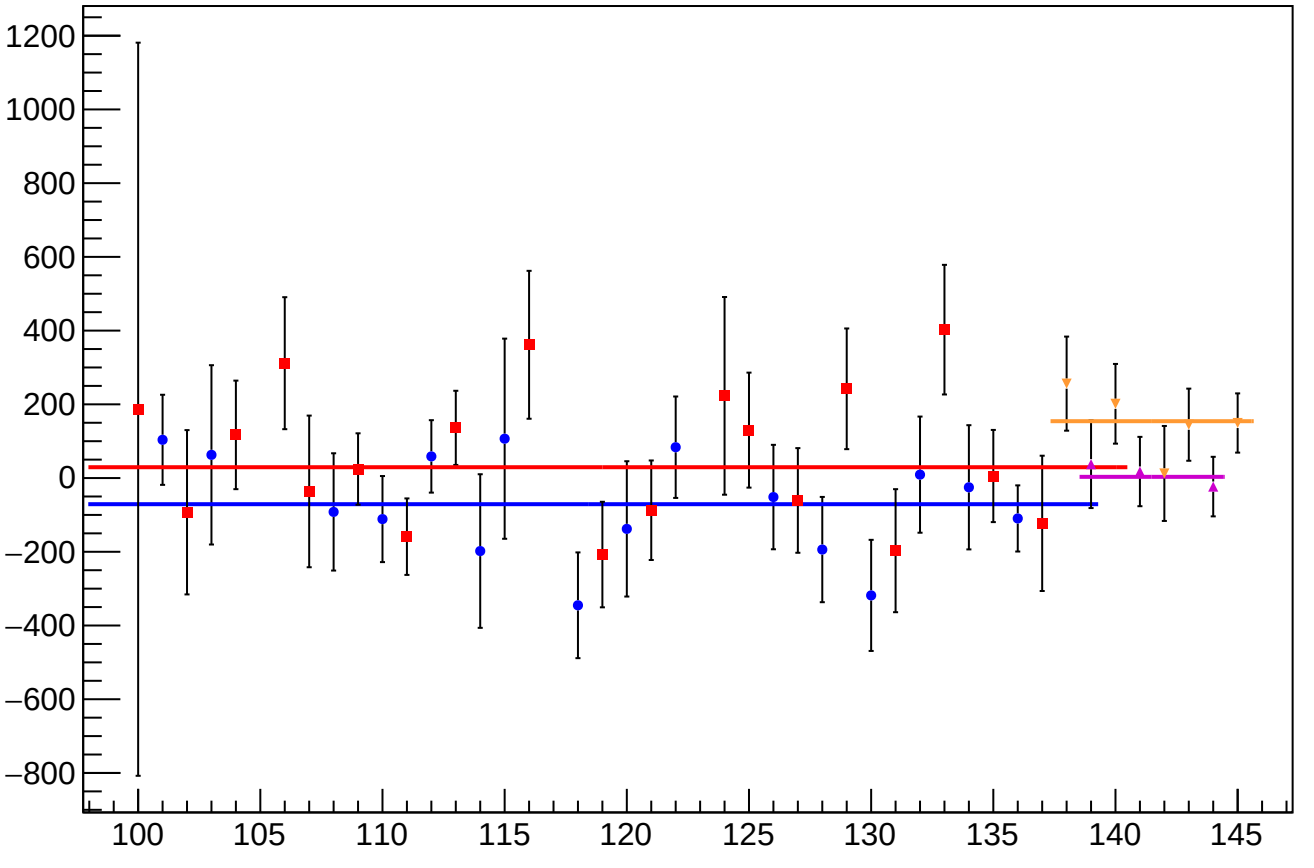
Left: 0.000+/-0.000 $\chi^2$/NDF: 345272.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3509564.6/34

In: 0.000+/-0.000 $\chi^2$/NDF:2819684.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3154427.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6025780.5/42




Right In: -70.892+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 154.261+/-46.295 $\chi^2$/NDF:2.1/4

Right Out: 29.410+/-34.243 $\chi^2$/NDF: 24.0/18

Left In: 3.296+/-54.488 $\chi^2$/NDF:0.2/2

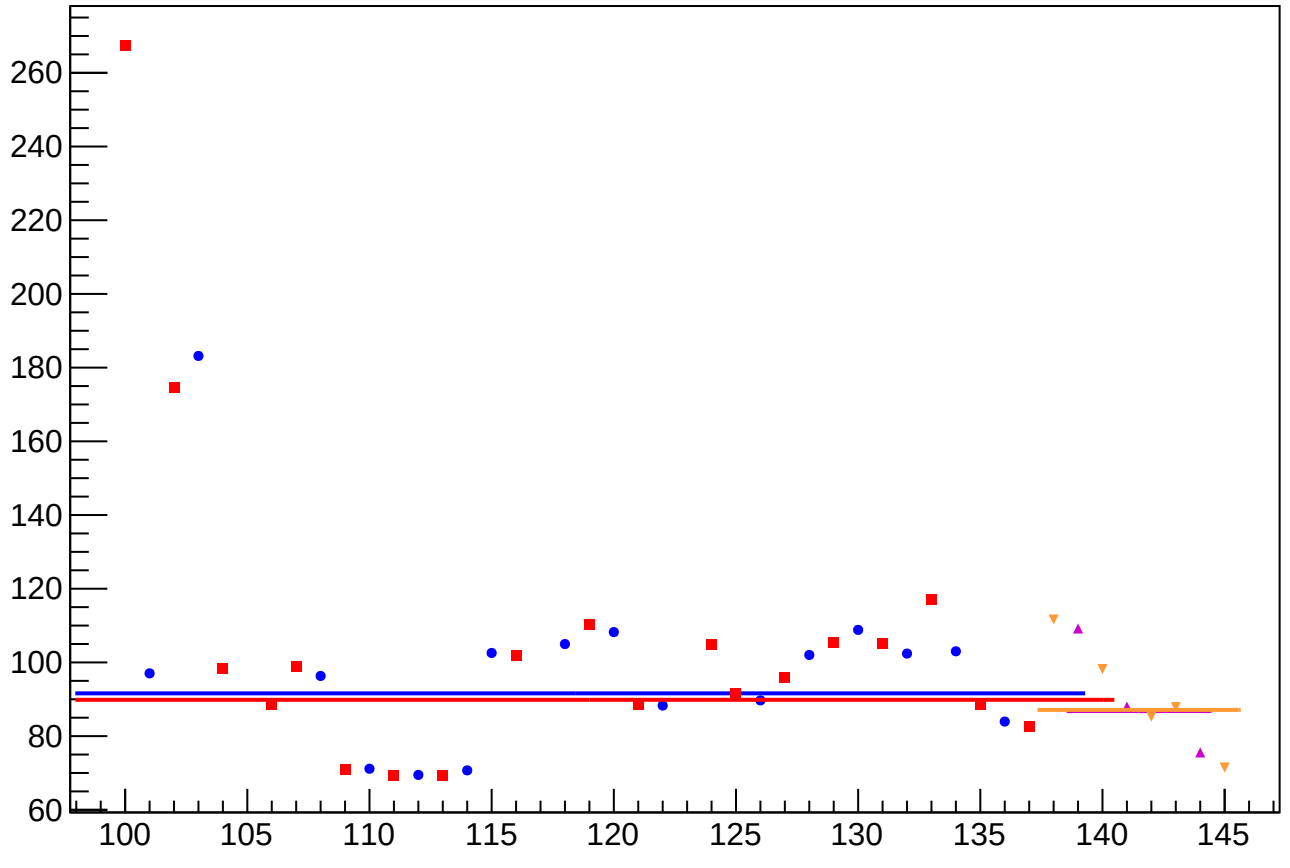
Left: 90.970+/-35.281 $\chi^2$/NDF: 6.7/7

Right: -19.470+/-24.518 $\chi^2$/NDF: 42.3/34

In: -49.116+/-29.521 $\chi^2$/NDF:15.6/18

Out: 73.561+/-27.530 $\chi^2$/NDF:30.8/23

All: 16.498+/-20.134 $\chi^2$/NDF: 55.6/42




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580672.8/15

Left Out: 87.110+/-0.033 $\chi^2$/NDF:171050.7/4

Right Out: 89.854+/-0.024 $\chi^2$/NDF: 746289.1/18

Left In: 86.800+/-0.039 $\chi^2$/NDF:109832.3/2

Left: 86.980+/-0.025 $\chi^2$/NDF: 280920.6/7

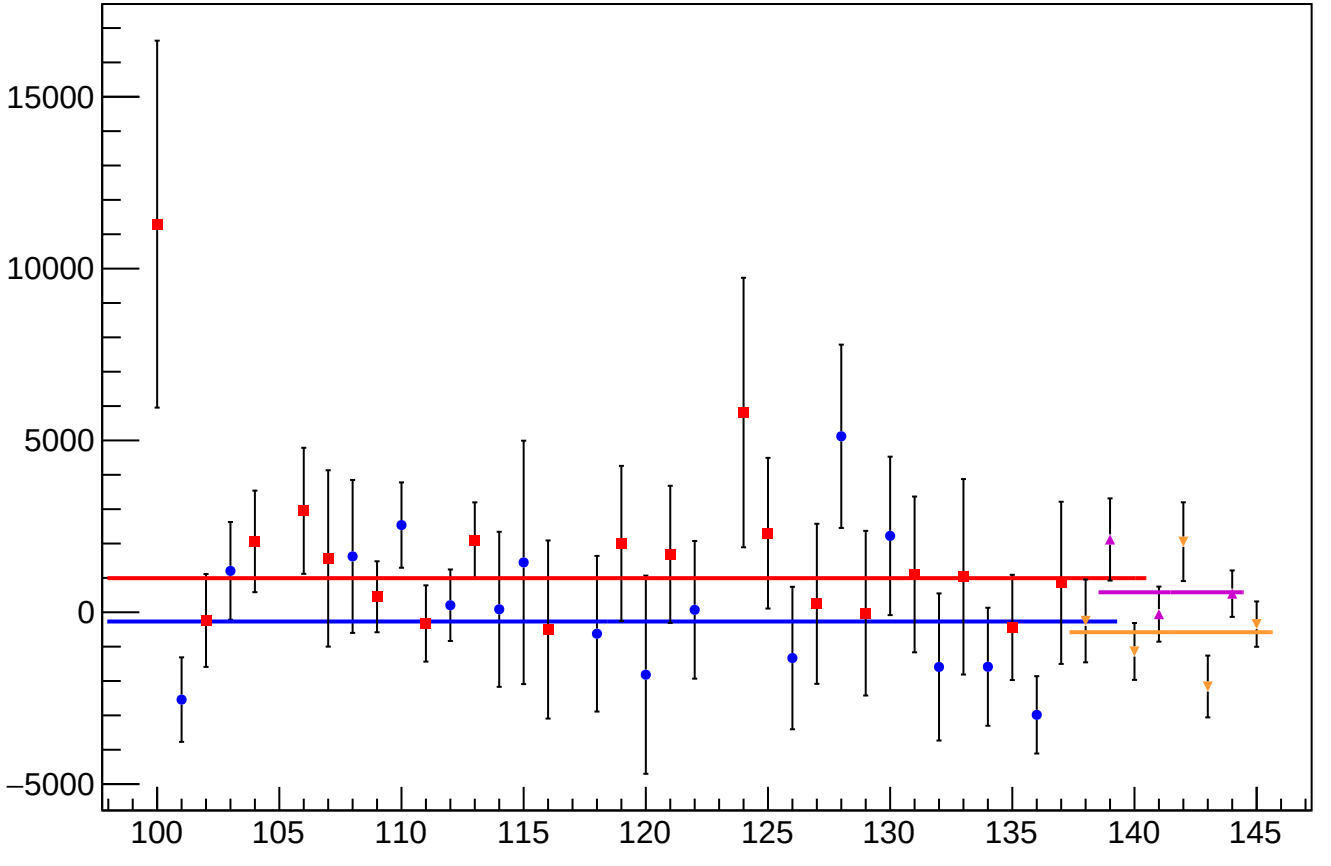
Right: 90.709+/-0.017 $\chi^2$/NDF: 1329517.7/34

In: 90.197+/-0.021 $\chi^2$/NDF:701507.6/18

Out: 88.884+/-0.019 $\chi^2$/NDF:921884.0/23

All: 89.494+/-0.014 $\chi^2$/NDF: 1625507.1/42

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: -580.244+/-393.870 $\chi^2$/NDF:9.0/4

Right Out: 992.670+/-400.824 $\chi^2$/NDF: 12.7/18

Left In: 581.395+/-474.247 $\chi^2$/NDF:2.3/2

Left: -106.063+/-302.999 $\chi^2$/NDF: 14.9/7

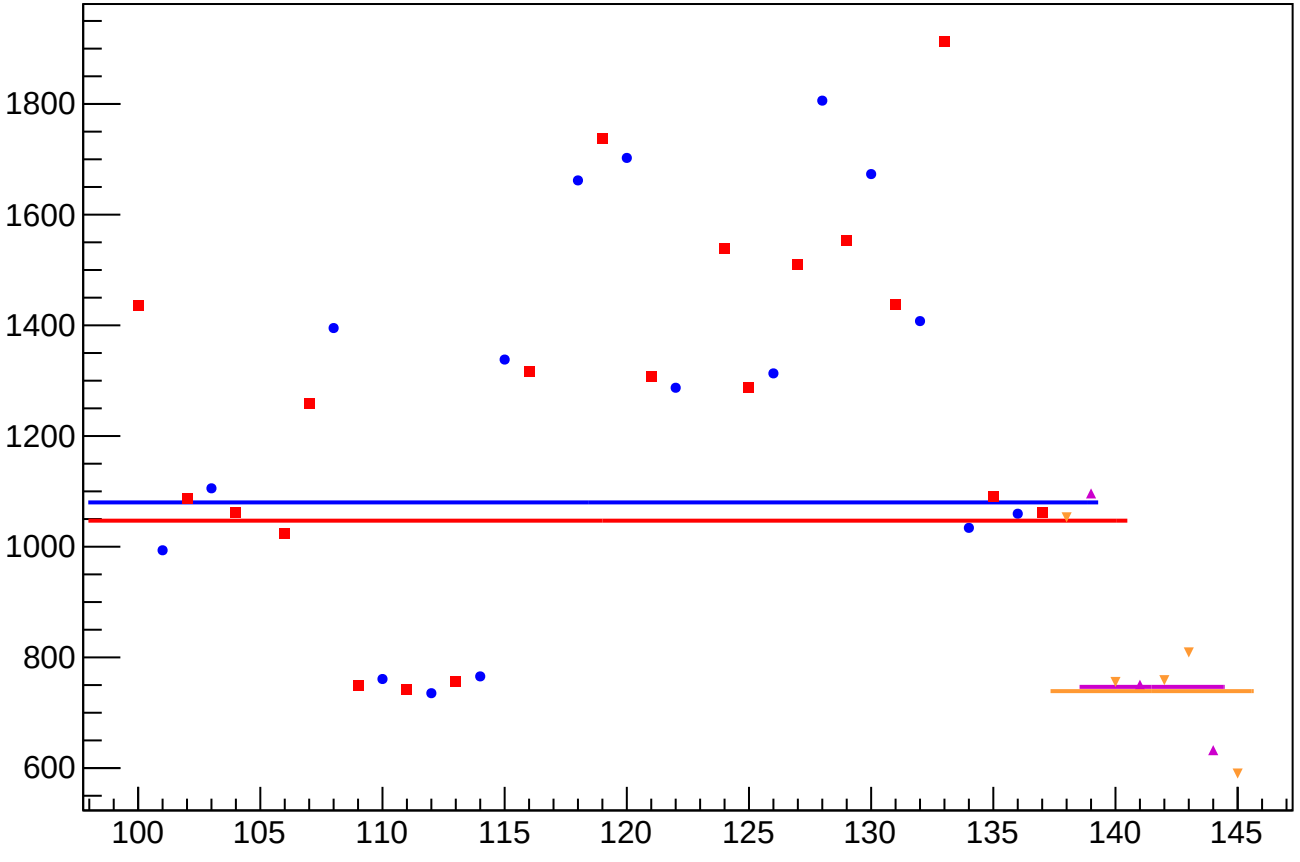
Right: 390.906+/-289.829 $\chi^2$/NDF: 40.8/34

In: 104.668+/-314.245 $\chi^2$/NDF:27.5/18

Out: 192.450+/-280.935 $\chi^2$/NDF:29.5/23

All: 153.456+/-209.441 $\chi^2$/NDF: 57.1/42

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: 739.040+/-0.279 $\chi^2$/NDF:251035.2/4

Right Out: 1047.068+/-0.283 $\chi^2$/NDF: 1198646.2/18

Left In: 746.775+/-0.335 $\chi^2$/NDF:228210.7/2

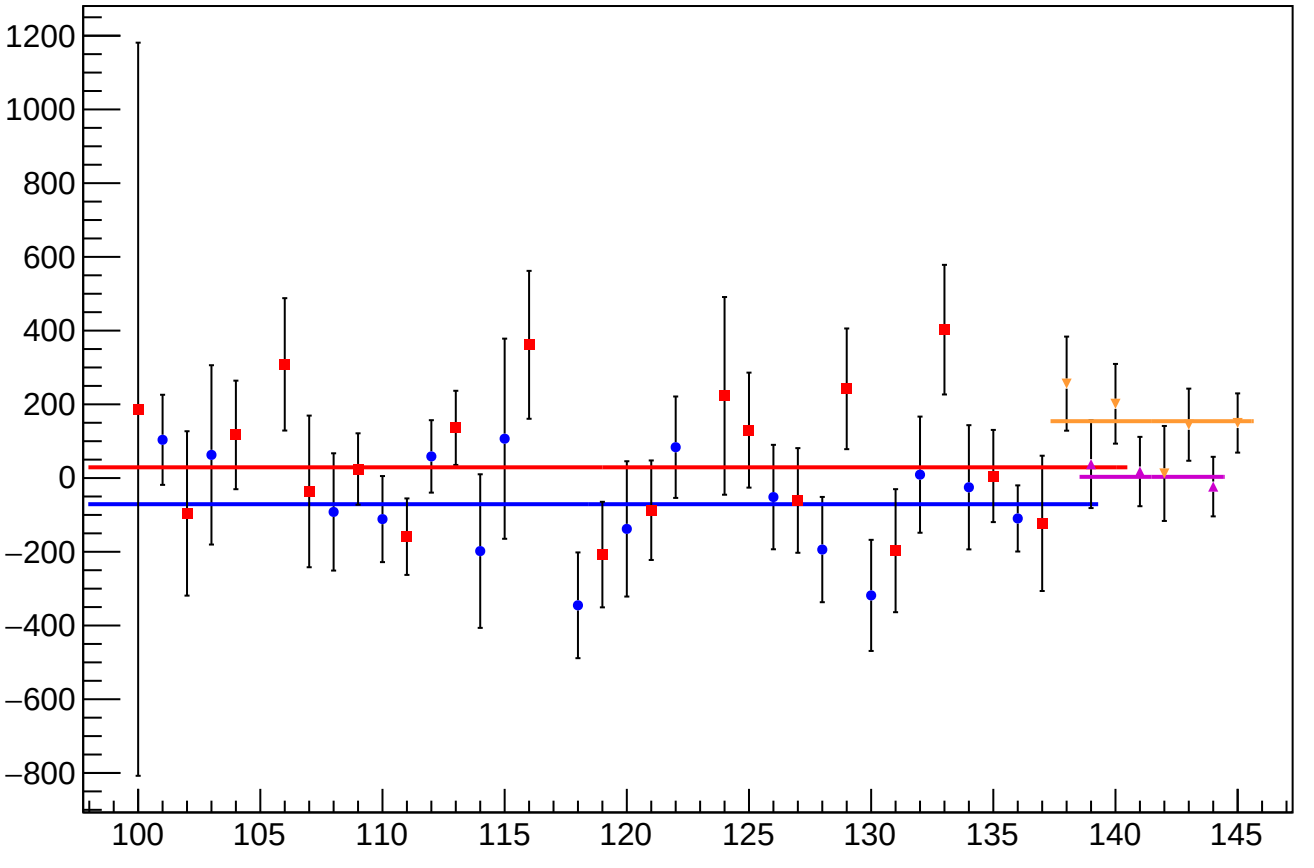
Left: 742.197+/-0.214 $\chi^2$/NDF: 479560.8/7

Right: 1062.803+/-0.205 $\chi^2$/NDF: 2258574.4/34

In: 933.718+/-0.222 $\chi^2$/NDF:1835701.3/18

Out: 890.358+/-0.199 $\chi^2$/NDF:2050588.5/23

All: 909.619+/-0.148 $\chi^2$/NDF: 3907452.7/42




Right In: -70.903+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 154.274+/-46.295 $\chi^2$/NDF:2.1/4

Right Out: 29.159+/-34.247 $\chi^2$/NDF: 24.0/18

Left In: 3.298+/-54.488 $\chi^2$/NDF:0.2/2

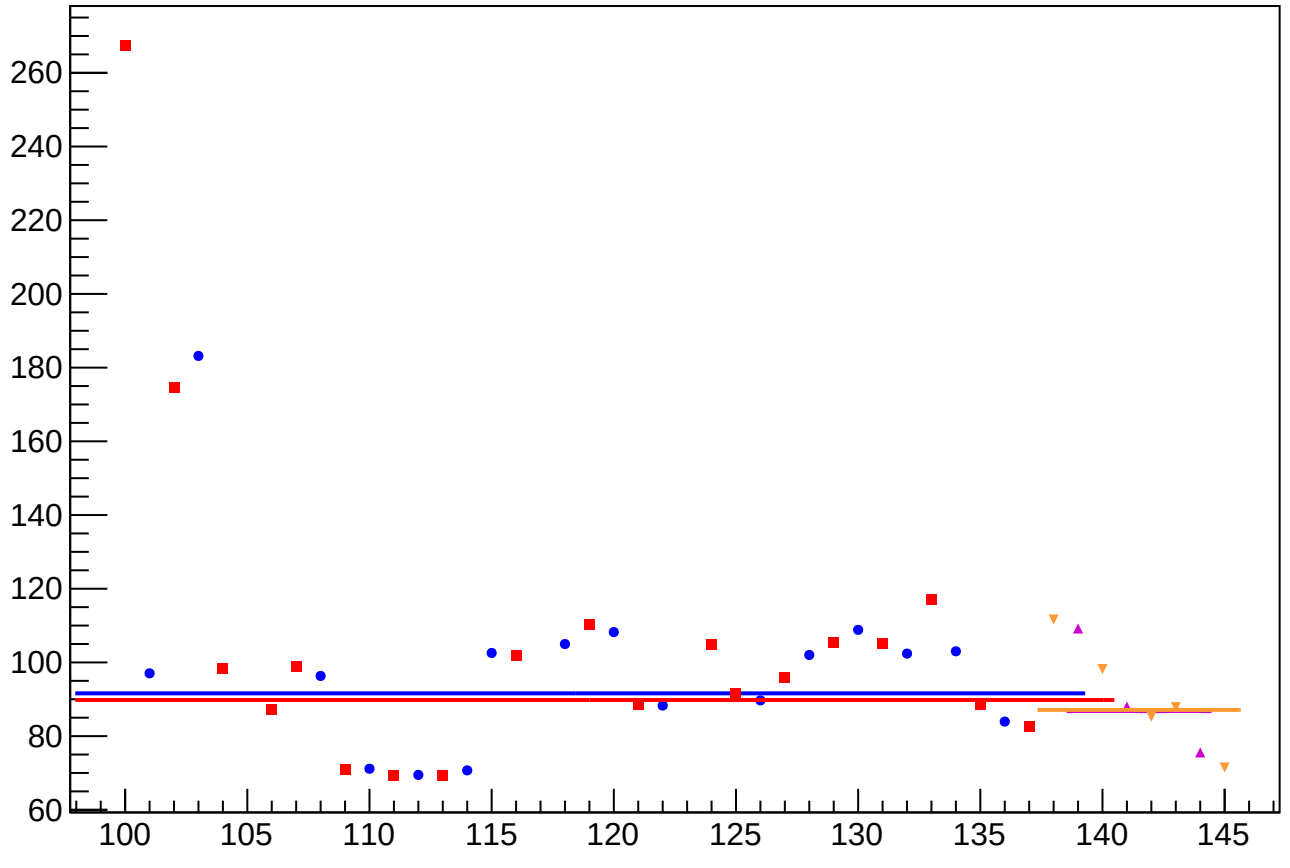
Left: 90.979+/-35.281 $\chi^2$/NDF: 6.7/7

Right: -19.610+/-24.520 $\chi^2$/NDF: 42.2/34

In: -49.123+/-29.521 $\chi^2$/NDF:15.6/18

Out: 73.411+/-27.533 $\chi^2$/NDF:30.7/23

All: 16.409+/-20.135 $\chi^2$/NDF: 55.5/42




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580675.9/15

Left Out: 87.110+/-0.033 $\chi^2$/NDF:171050.7/4

Right Out: 89.807+/-0.024 $\chi^2$/NDF: 746833.4/18

Left In: 86.800+/-0.039 $\chi^2$/NDF:109832.3/2

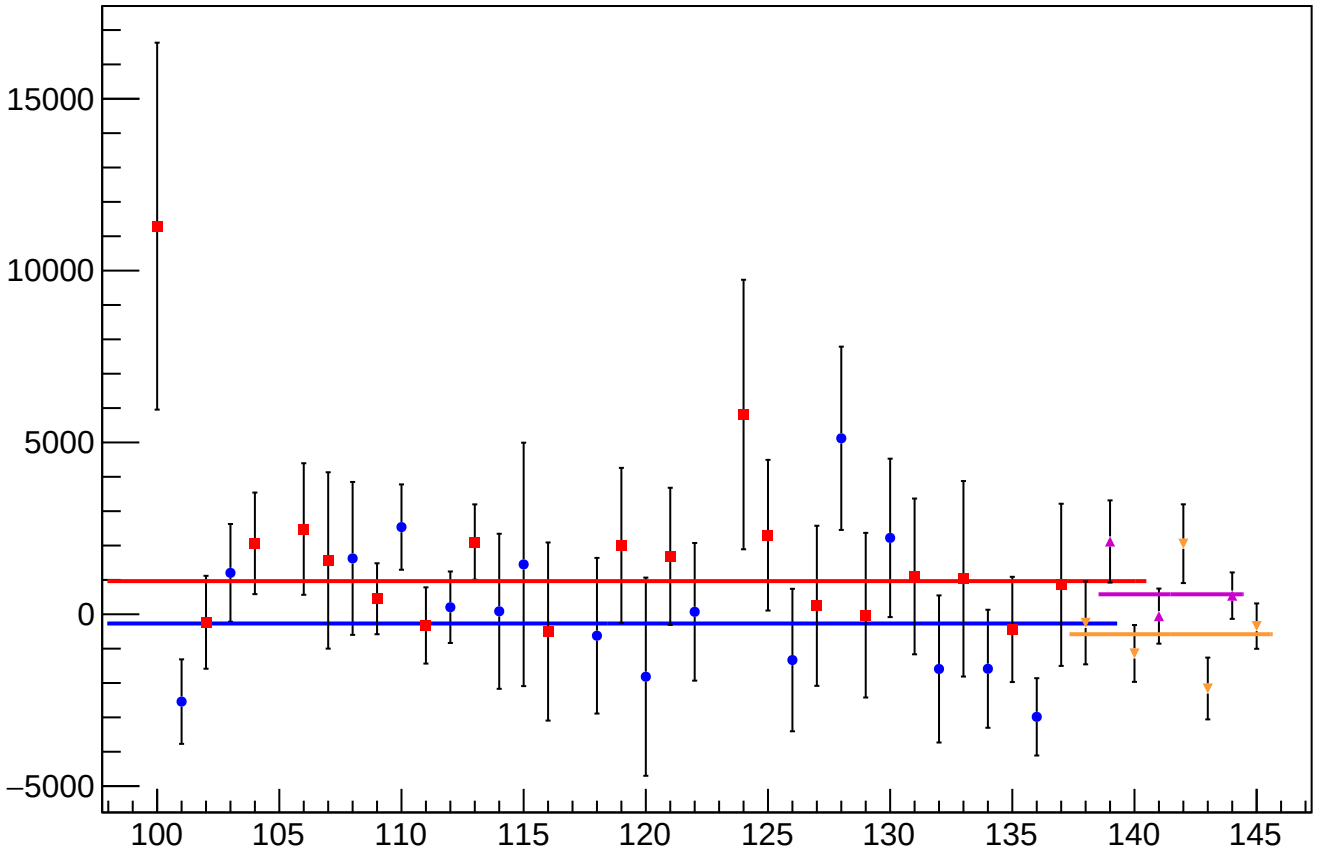
Left: 86.980+/-0.025 $\chi^2$/NDF: 280920.6/7

Right: 90.685+/-0.017 $\chi^2$/NDF: 1330205.1/34

In: 90.197+/-0.021 $\chi^2$/NDF:701510.7/18

Out: 88.853+/-0.019 $\chi^2$/NDF:922272.2/23

All: 89.478+/-0.014 $\chi^2$/NDF: 1625998.7/42




Right In: -268.506+/-419.581 $\chi^2$/NDF: 23.4/15

Left Out: -580.233+/-393.870 $\chi^2$/NDF:9.0/4

Right Out: 964.986+/-401.633 $\chi^2$/NDF: 12.1/18

Left In: 581.407+/-474.247 $\chi^2$/NDF:2.3/2

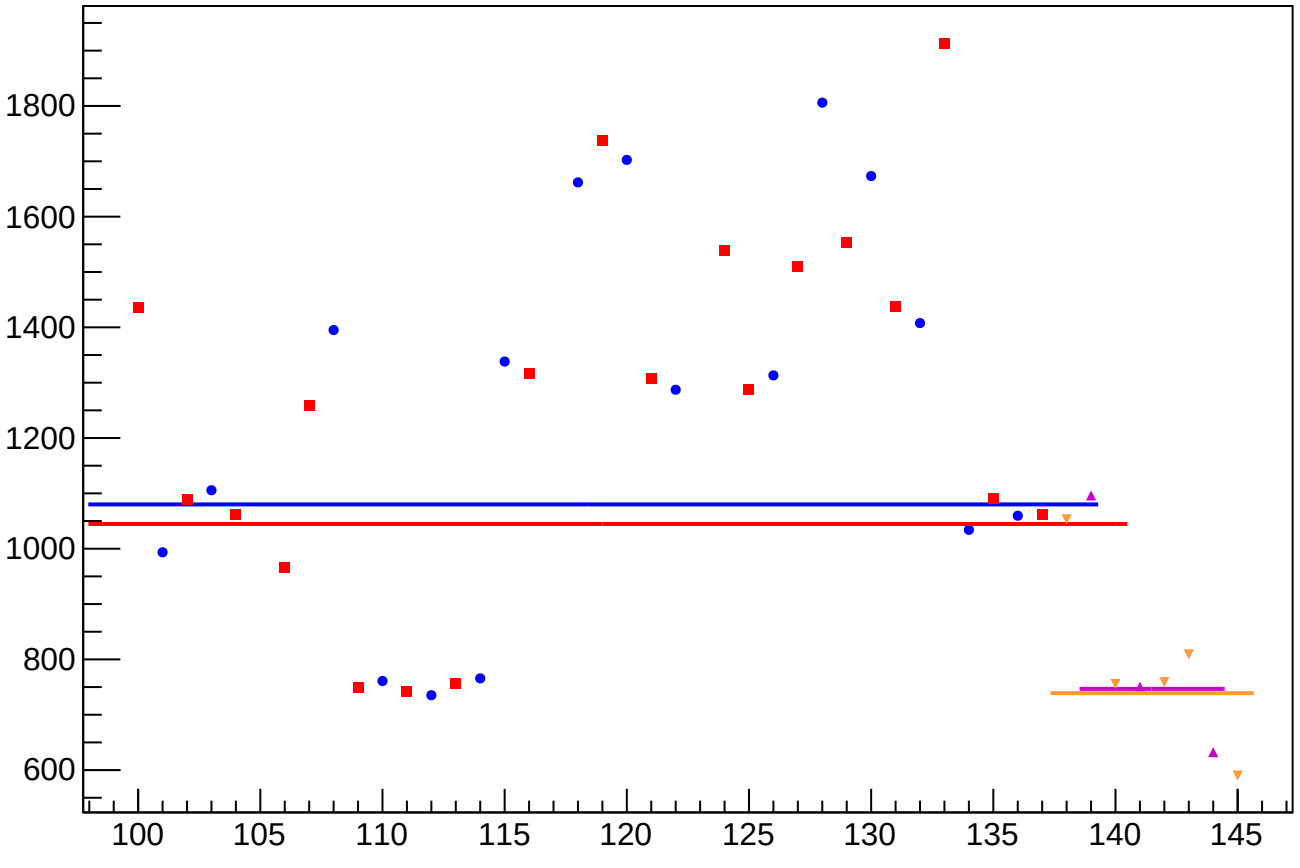
Left: -106.053+/-302.998 $\chi^2$/NDF: 14.9/7

Right: 375.186+/-290.135 $\chi^2$/NDF: 40.1/34

In: 104.664+/-314.247 $\chi^2$/NDF:27.5/18

Out: 177.299+/-281.212 $\chi^2$/NDF:28.7/23

All: 144.999+/-209.556 $\chi^2$/NDF: 56.3/42




Right In: 1080.054+/-0.297 $\chi^2$/NDF: 1053475.0/15

Left Out: 739.039+/-0.279 $\chi^2$/NDF:251035.1/4

Right Out: 1044.717+/-0.284 $\chi^2$/NDF: 1201825.8/18

Left In: 746.775+/-0.335 $\chi^2$/NDF:228210.1/2

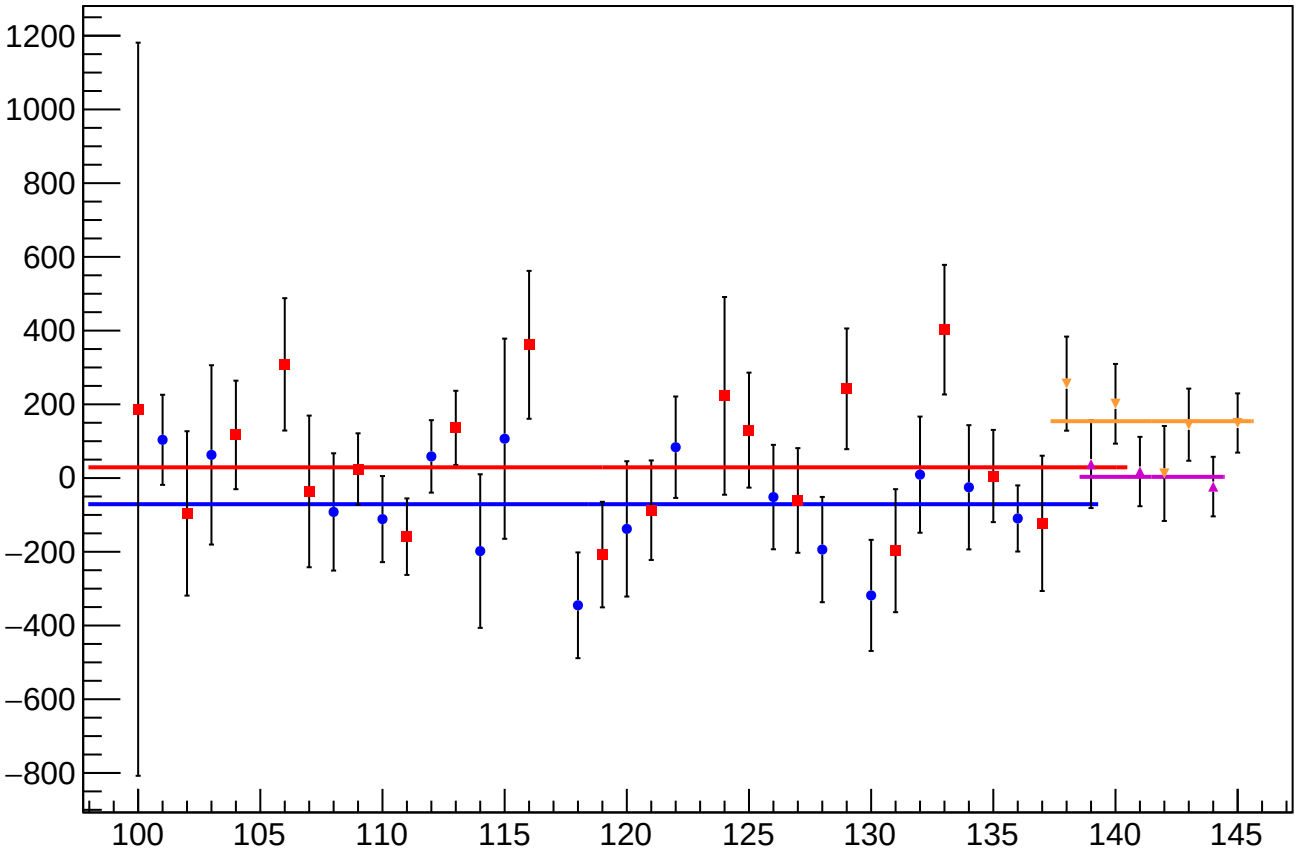
Left: 742.197+/-0.214 $\chi^2$/NDF: 479560.1/7

Right: 1061.613+/-0.205 $\chi^2$/NDF: 2262703.7/34

In: 933.722+/-0.222 $\chi^2$/NDF:1835729.8/18

Out: 888.895+/-0.199 $\chi^2$/NDF:2043419.5/23

All: 908.829+/-0.148 $\chi^2$/NDF: 3901748.6/42




Right In: -70.903+/-35.122 $\chi^2$/NDF: 14.1/15

Left Out: 154.274+/-46.295 $\chi^2$/NDF:2.1/4

Right Out: 29.159+/-34.247 $\chi^2$/NDF: 24.0/18

Left In: 3.298+/-54.488 $\chi^2$/NDF:0.2/2

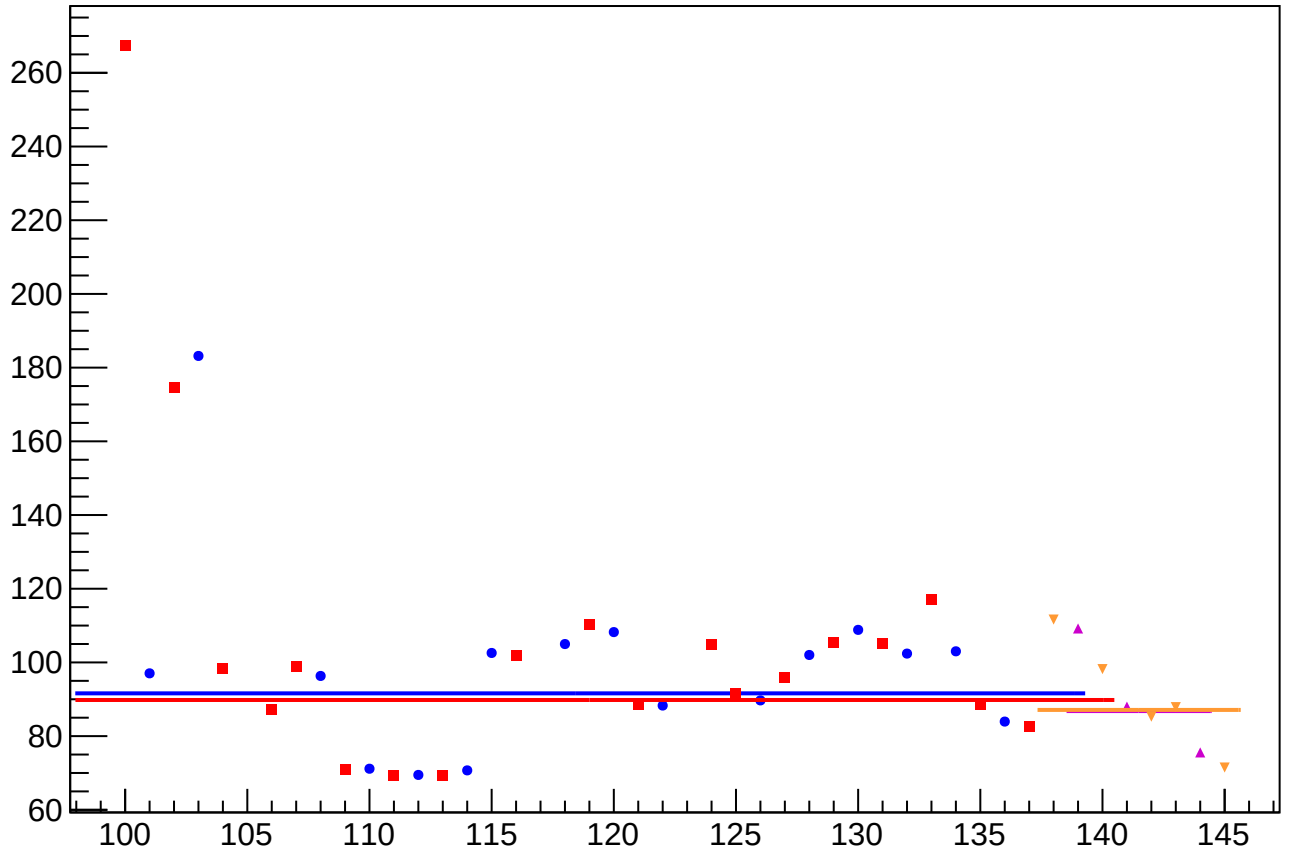
Left: 90.979+/-35.281 $\chi^2$/NDF: 6.7/7

Right: -19.610+/-24.520 $\chi^2$/NDF: 42.2/34

In: -49.123+/-29.521 $\chi^2$/NDF:15.6/18

Out: 73.411+/-27.533 $\chi^2$/NDF:30.7/23

All: 16.409+/-20.135 $\chi^2$/NDF: 55.5/42




Right In: 91.608+/-0.025 $\chi^2$/NDF: 580675.9/15

Left Out: 87.110+/-0.033 $\chi^2$/NDF:171050.7/4

Right Out: 89.807+/-0.024 $\chi^2$/NDF: 746833.4/18

Left In: 86.800+/-0.039 $\chi^2$/NDF:109832.3/2

Left: 86.980+/-0.025 $\chi^2$/NDF: 280920.6/7

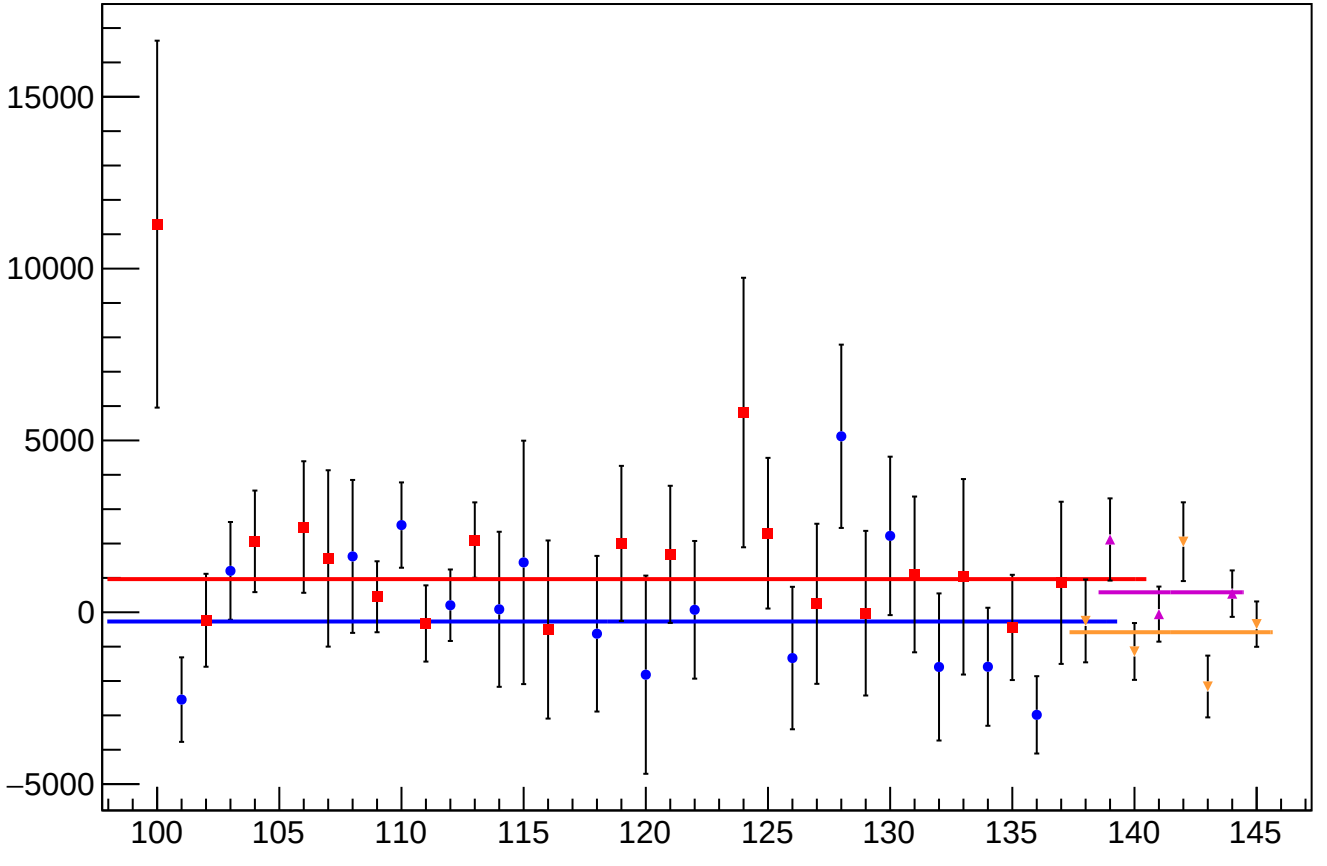
Right: 90.685+/-0.017 $\chi^2$/NDF: 1330205.1/34

In: 90.197+/-0.021 $\chi^2$/NDF:701510.7/18

Out: 88.853+/-0.019 $\chi^2$/NDF:922272.2/23

All: 89.478+/-0.014 $\chi^2$/NDF: 1625998.7/42

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: -580.233+/-393.870 $\chi^2$/NDF:9.0/4

Right Out: 964.986+/-401.633 $\chi^2$/NDF: 12.1/18

Left In: 581.407+/-474.247 $\chi^2$/NDF:2.3/2

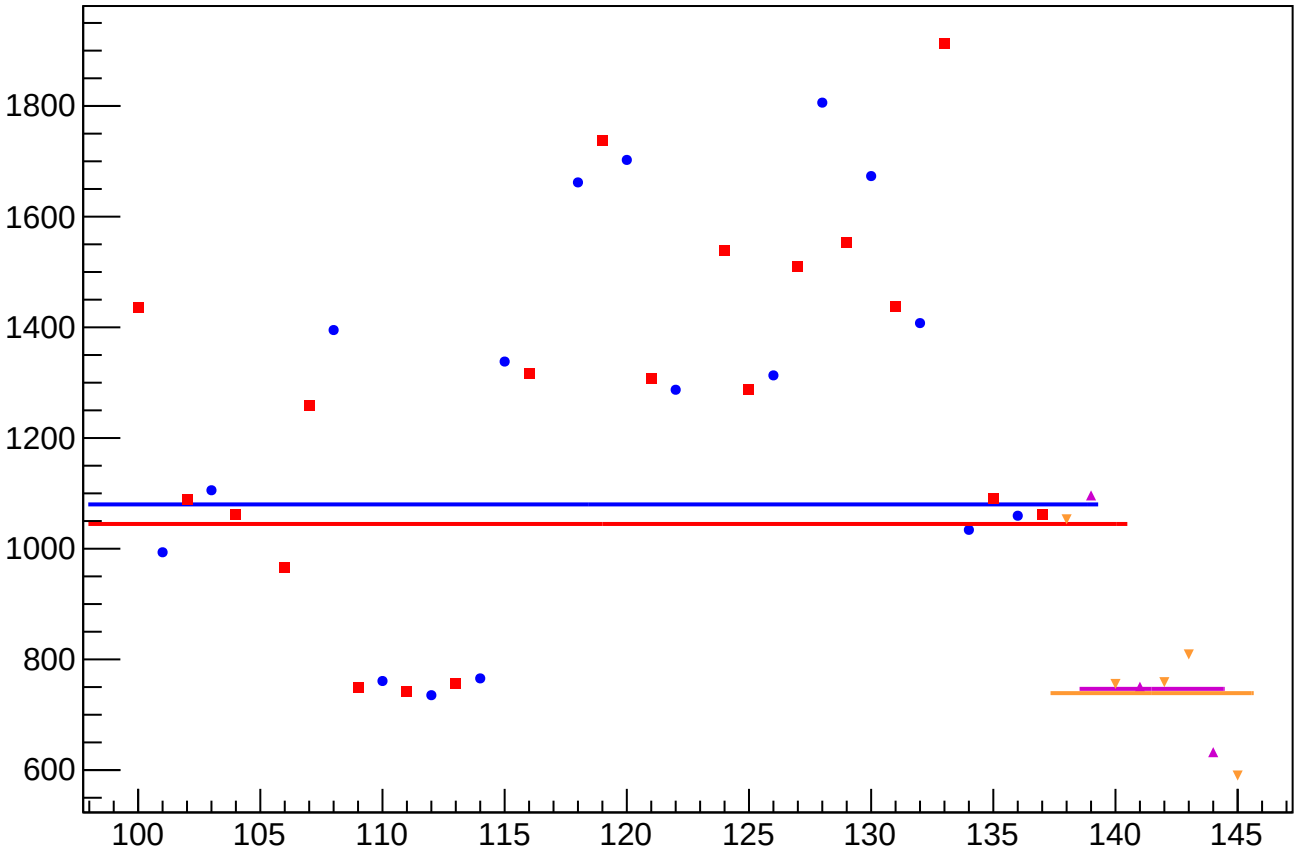
Left: -106.053+/-302.998 $\chi^2$/NDF: 14.9/7

Right: 375.186+/-290.135 $\chi^2$/NDF: 40.1/34

In: 104.664+/-314.247 $\chi^2$/NDF:27.5/18

Out: 177.299+/-281.212 $\chi^2$/NDF:28.7/23

All: 144.999+/-209.556 $\chi^2$/NDF: 56.3/42




Right In: 1080.054+/-0.297 $\chi^2$/NDF: 1053475.0/15

Left Out: 739.039+/-0.279 $\chi^2$/NDF:251035.1/4

Right Out: 1044.717+/-0.284 $\chi^2$/NDF: 1201825.8/18

Left In: 746.775+/-0.335 $\chi^2$/NDF:228210.1/2

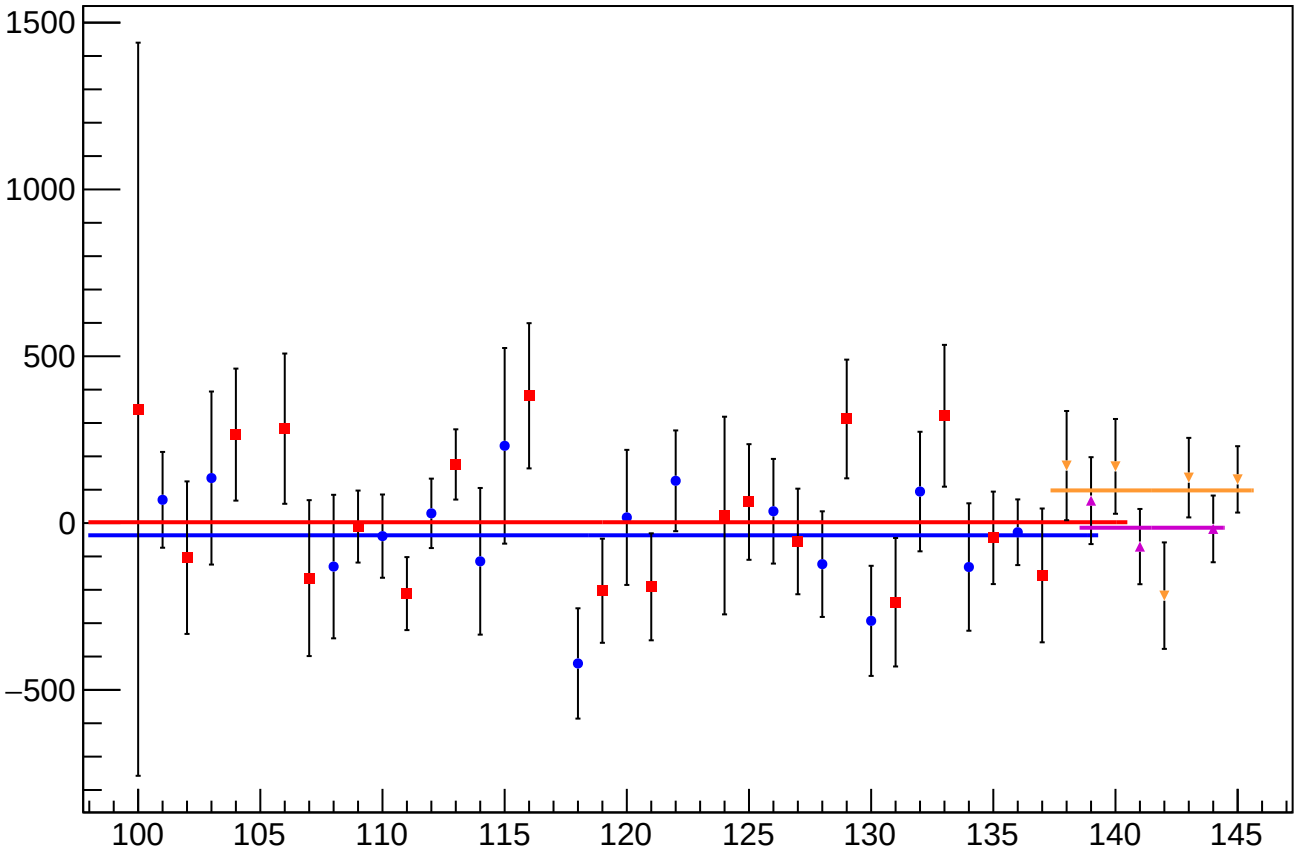
Left: 742.197+/-0.214 $\chi^2$/NDF: 479560.1/7

Right: 1061.613+/-0.205 $\chi^2$/NDF: 2262703.7/34

In: 933.722+/-0.222 $\chi^2$/NDF:1835729.8/18

Out: 888.895+/-0.199 $\chi^2$/NDF:2043419.5/23

All: 908.829+/-0.148 $\chi^2$/NDF: 3901748.6/42




Right In: -36.590+/-38.991 $\chi^2$/NDF: 12.9/15

Left Out: 97.906+/-57.970 $\chi^2$/NDF:4.6/4

Right Out: 2.568+/-38.165 $\chi^2$/NDF: 24.7/18

Left In: -13.951+/-64.870 $\chi^2$/NDF:0.6/2

Left: 48.240+/-43.225 $\chi^2$/NDF: 6.9/7

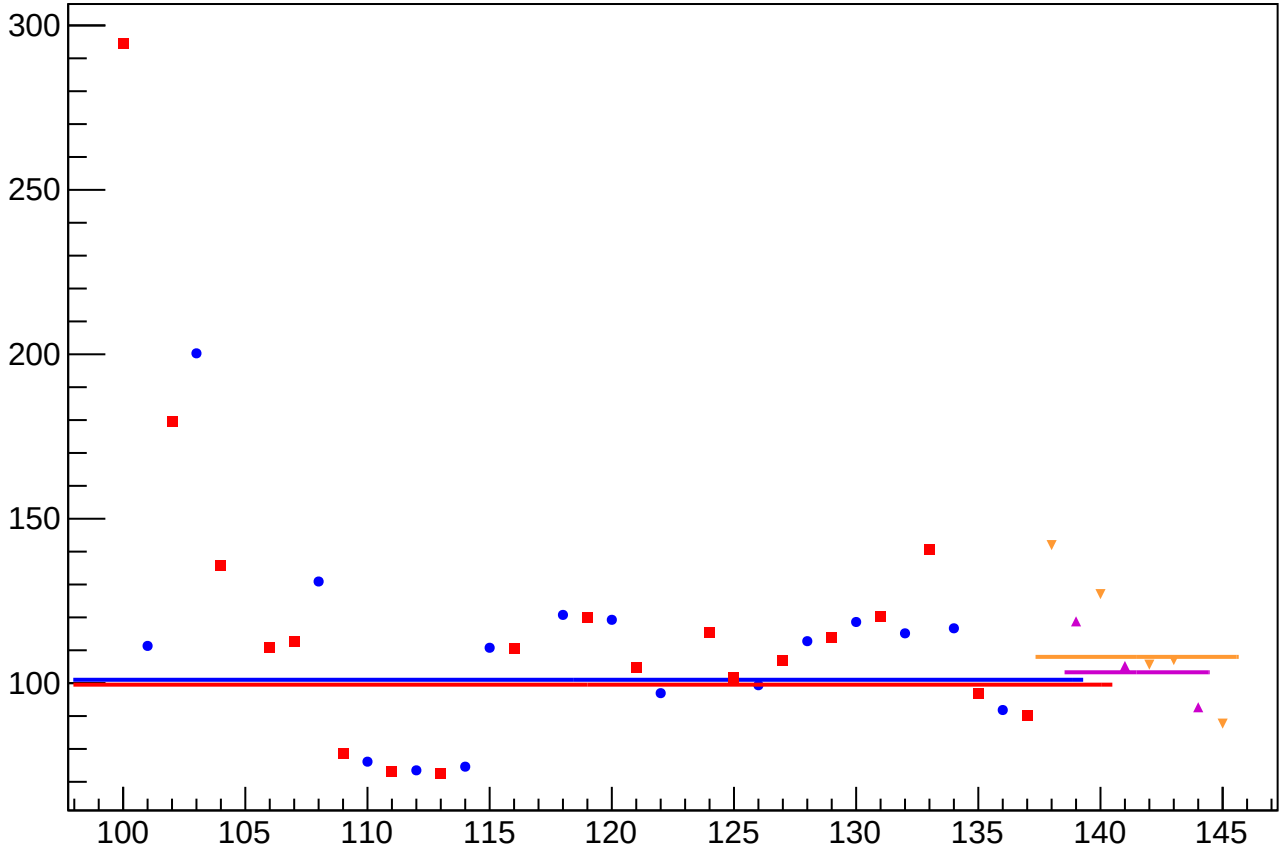
Right: -16.592+/-27.274 $\chi^2$/NDF: 38.1/34

In: -30.582+/-33.419 $\chi^2$/NDF:13.6/18

Out: 31.395+/-31.877 $\chi^2$/NDF:31.2/23

All: 1.869+/-23.066 $\chi^2$/NDF: 46.6/42

# dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 101.031+/-0.028 $\chi^2$/NDF: 716095.9/15

Left Out: 107.995+/-0.041 $\chi^2$/NDF:206140.0/4

Right Out: 99.547+/-0.027 $\chi^2$/NDF: 880497.8/18

Left In: 103.309+/-0.046 $\chi^2$/NDF:51480.2/2

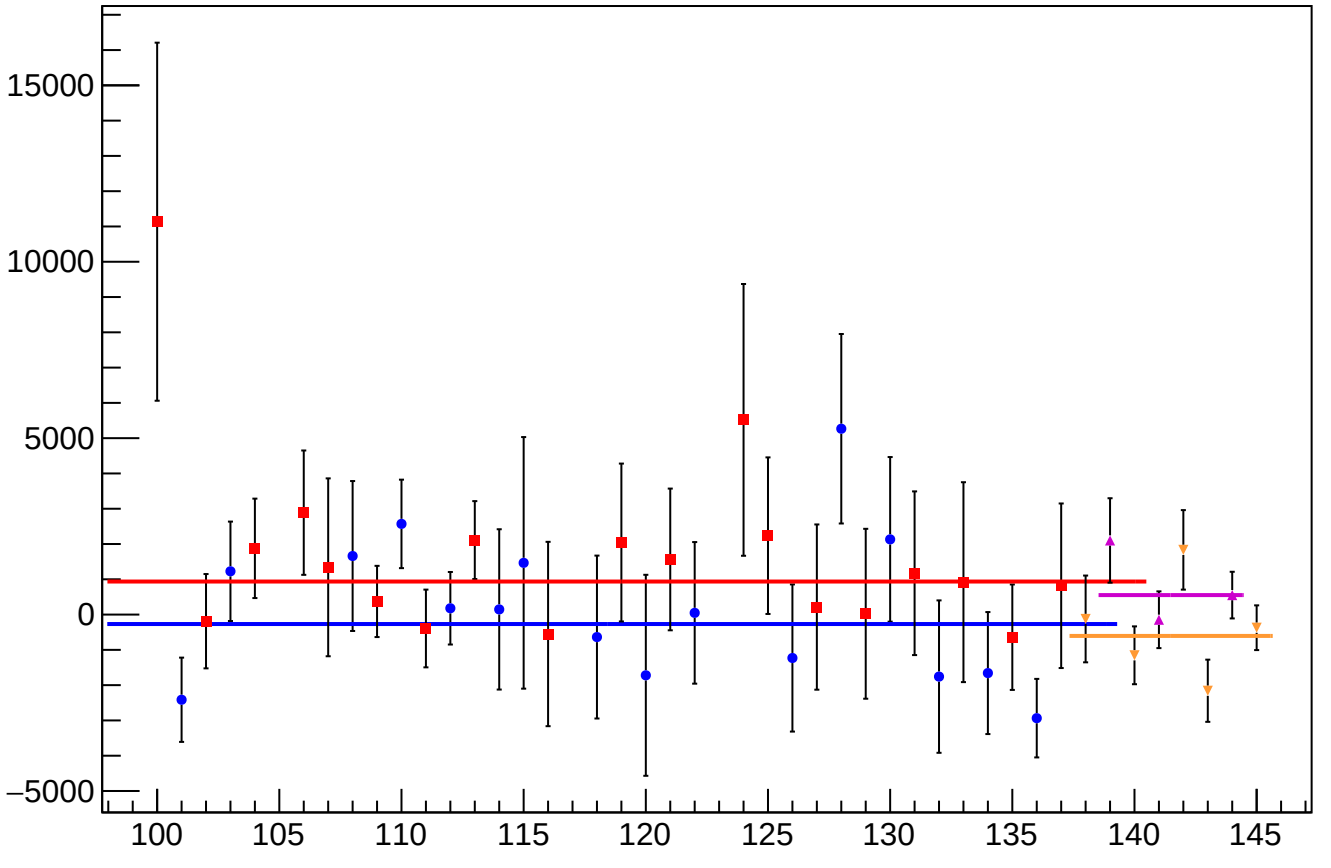
Left: 105.914+/-0.031 $\chi^2$/NDF: 263421.3/7

Right: 100.273+/-0.019 $\chi^2$/NDF: 1598073.3/34

In: 101.636+/-0.024 $\chi^2$/NDF:769388.2/18

Out: 102.101+/-0.023 $\chi^2$/NDF:1116267.1/23

All: 101.880+/-0.016 $\chi^2$/NDF: 1885858.6/42




Right In: -267.886+/-417.061 $\chi^2$/NDF: 23.5/15

Left Out: -604.919+/-385.929 $\chi^2$/NDF:8.5/4

Right Out: 936.734+/-396.234 $\chi^2$/NDF: 13.1/18

Left In: 552.590+/-469.705 $\chi^2$/NDF:2.4/2

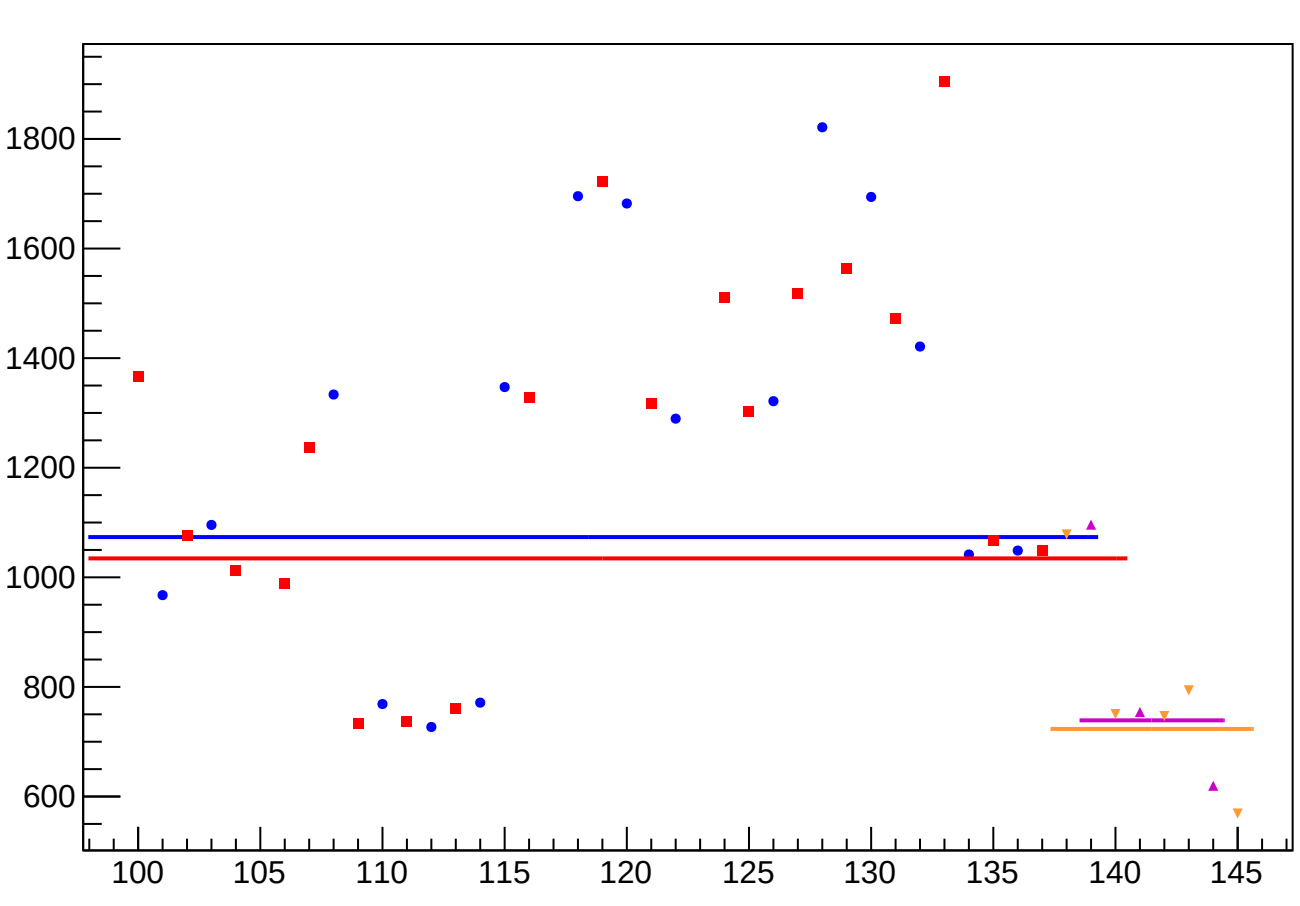
Left: -138.422+/-298.186 $\chi^2$/NDF: 14.6/7

Right: 365.251+/-287.261 $\chi^2$/NDF: 41.0/34

In: 93.814+/-311.865 $\chi^2$/NDF:27.6/18

Out: 145.598+/-276.465 $\chi^2$/NDF:29.4/23

All: 122.811+/-206.879 $\chi^2$/NDF: 57.1/42




Right In: 1073.456+/-0.295 $\chi^2$/NDF: 1077055.9/15

Left Out: 723.337+/-0.273 $\chi^2$/NDF:301180.4/4

Right Out: 1034.535+/-0.280 $\chi^2$/NDF: 1229344.1/18

Left In: 739.015+/-0.332 $\chi^2$/NDF:244181.1/2

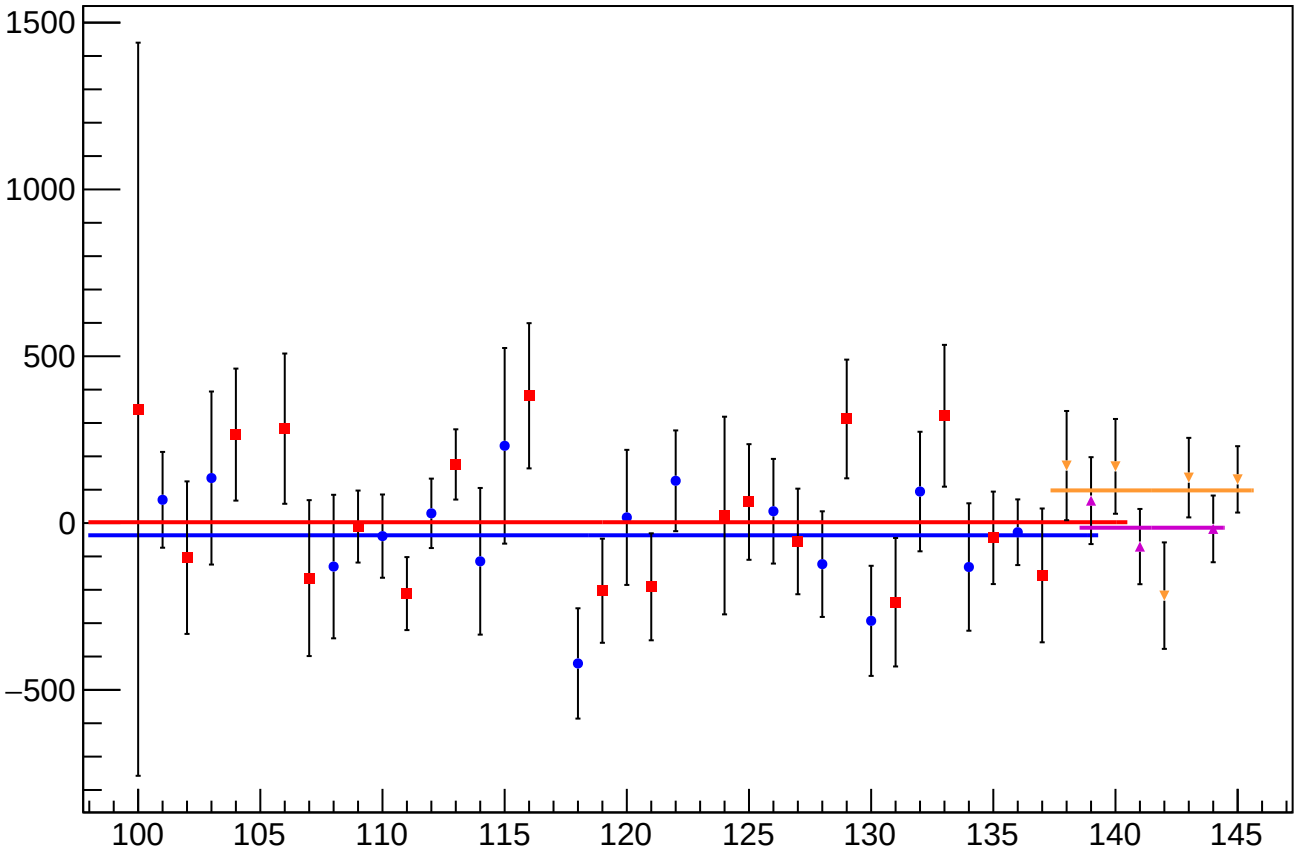
Left: 729.656+/-0.211 $\chi^2$/NDF: 546691.5/7

Right: 1052.999+/-0.203 $\chi^2$/NDF: 2315554.6/34

In: 926.020+/-0.221 $\chi^2$/NDF:1888196.8/18

Out: 874.837+/-0.195 $\chi^2$/NDF:2163609.8/23

All: 897.360+/-0.146 $\chi^2$/NDF: 4081971.7/42




Right In: -36.589+/-38.991 $\chi^2$/NDF: 12.9/15

Left Out: 97.905+/-57.971 $\chi^2$/NDF:4.6/4

Right Out: 2.566+/-38.165 $\chi^2$/NDF: 24.7/18

Left In: -13.950+/-64.870 $\chi^2$/NDF:0.6/2

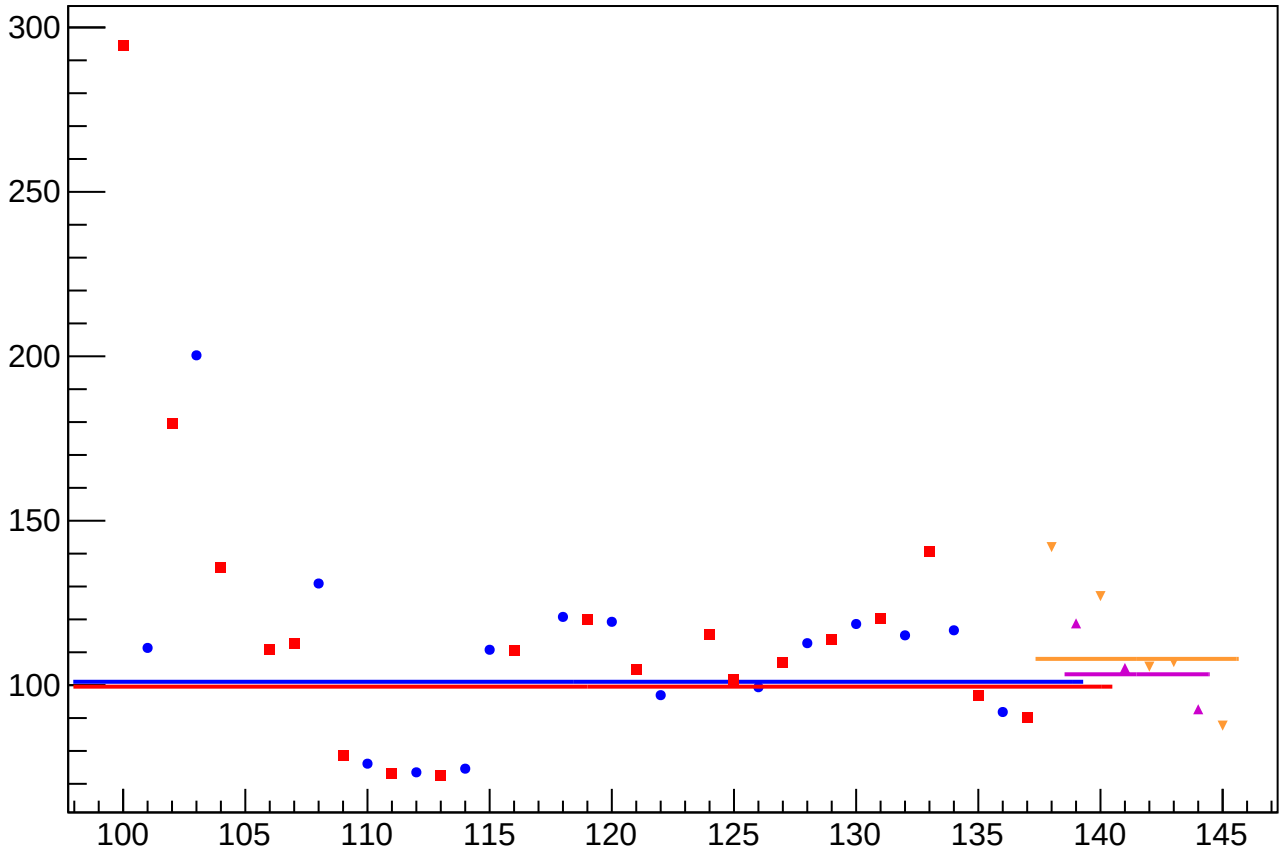
Left: 48.240+/-43.226 $\chi^2$/NDF: 6.9/7

Right: -16.593+/-27.274 $\chi^2$/NDF: 38.1/34

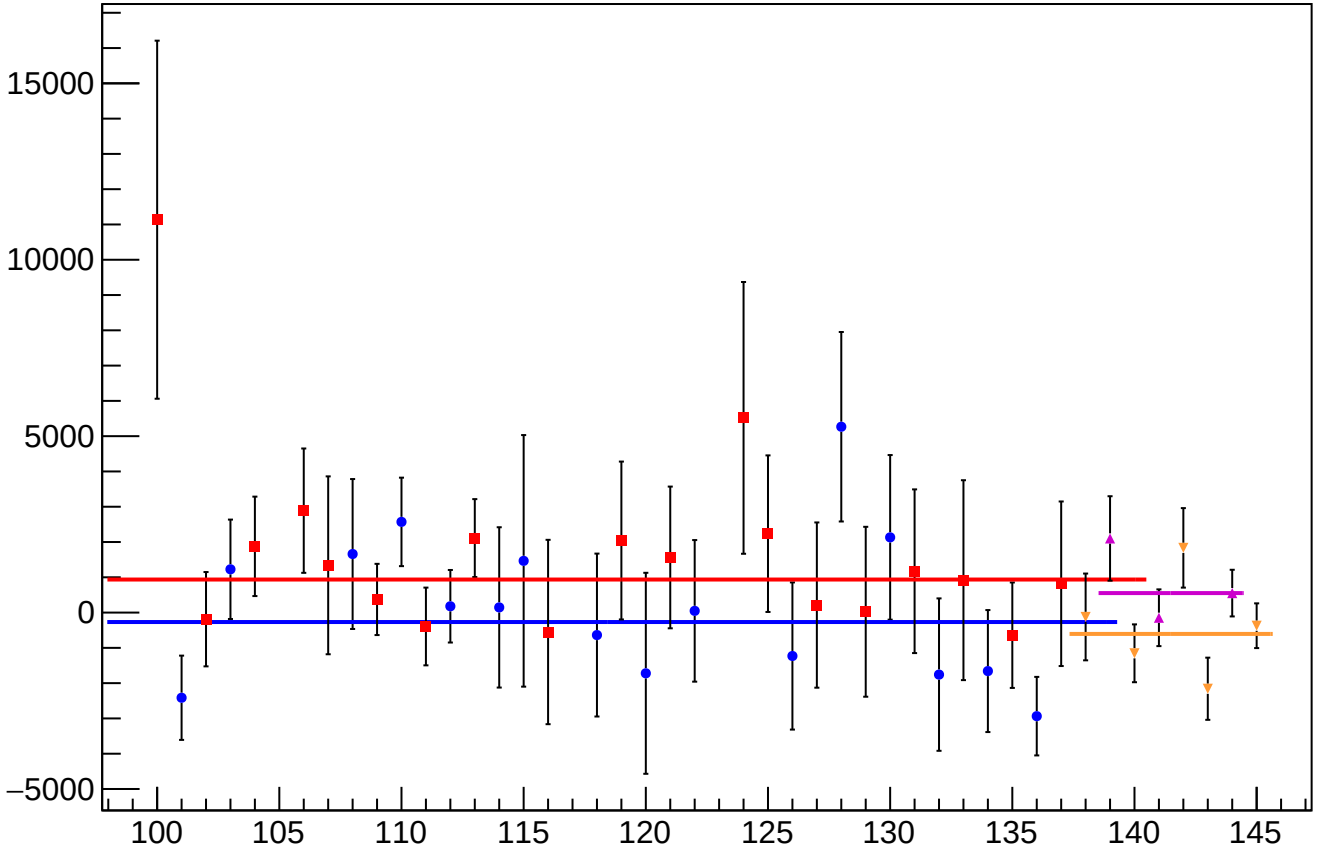
In: -30.581+/-33.419 $\chi^2$/NDF:13.6/18

Out: 31.393+/-31.877 $\chi^2$/NDF:31.2/23

All: 1.869+/-23.066 $\chi^2$/NDF: 46.6/42


eigen_dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected
300
250
200
150
100
100
105
110
115
120
125
130
135
140
145
Right In: 101.031+/-0.028 χ²/NDF: 716094.5/15
Left Out: 107.995+/-0.041 χ²/NDF:206132.6/4
Right Out: 99.547+/-0.027 χ²/NDF: 880499.8/18
Left In: 103.310+/-0.046 χ²/NDF:51477.9/2
Left: 105.915+/-0.031 χ²/NDF: 263412.2/7
Right: 100.273+/-0.019 χ²/NDF: 1598074.0/34
In: 101.636+/-0.024 χ²/NDF:769384.9/18
Out: 102.102+/-0.023 χ²/NDF:1116265.0/23
All: 101.880+/-0.016 χ²/NDF: 1885853.3/42

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: -604.922+/-385.928 $\chi^2$/NDF:8.5/4

Right Out: 936.732+/-396.234 $\chi^2$/NDF: 13.1/18

Left In: 552.590+/-469.705 $\chi^2$/NDF:2.4/2

Left: -138.424+/-298.186 $\chi^2$/NDF: 14.6/7

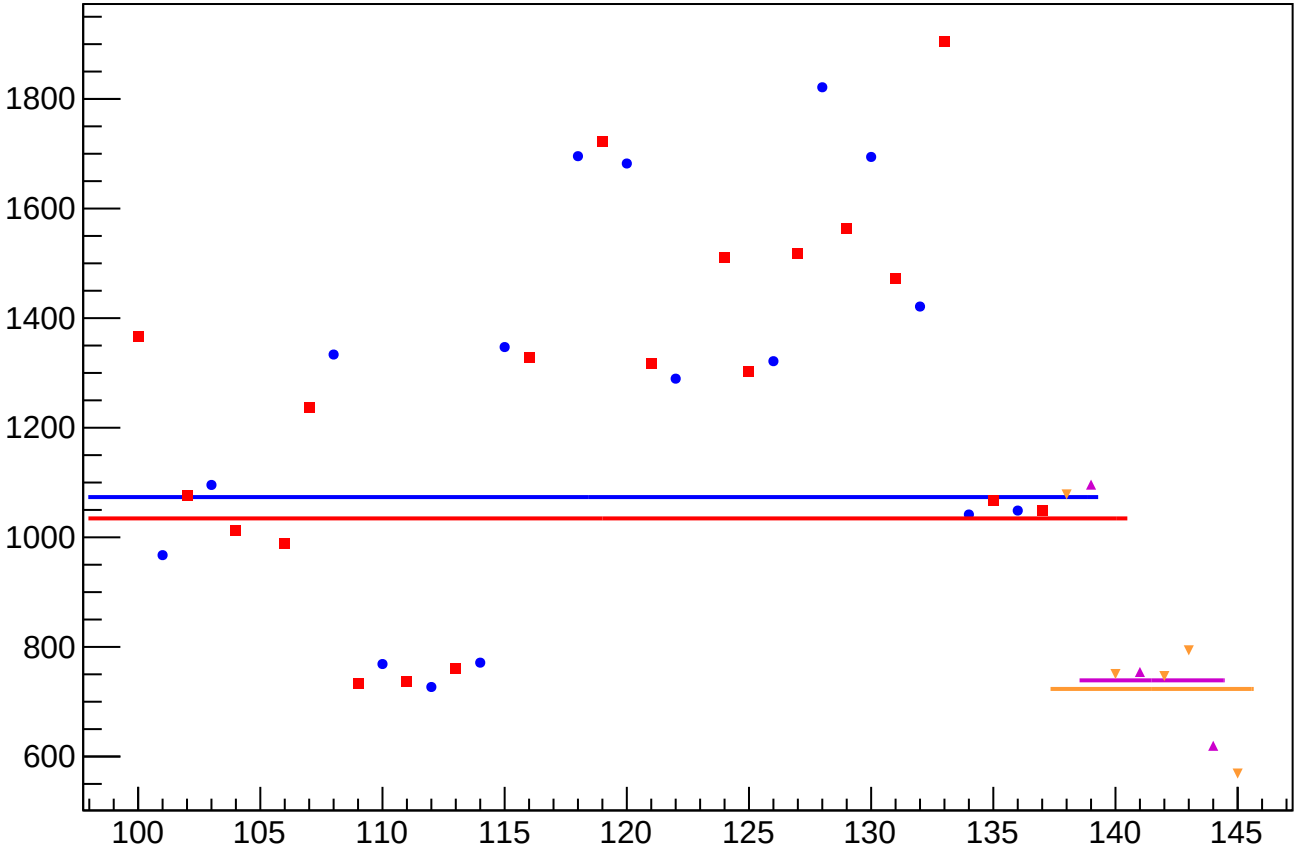
Right: 365.251+/-287.260 $\chi^2$/NDF: 41.0/34

In: 93.815+/-311.865 $\chi^2$/NDF:27.6/18

Out: 145.596+/-276.464 $\chi^2$/NDF:29.4/23

All: 122.810+/-206.878 $\chi^2$/NDF: 57.1/42

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: 723.336+/-0.273 $\chi^2$/NDF:301181.9/4

Right Out: 1034.533+/-0.280 $\chi^2$/NDF: 1229346.7/18

Left In: 739.013+/-0.332 $\chi^2$/NDF:244181.3/2

Left: 729.654+/-0.211 $\chi^2$/NDF: 546693.4/7

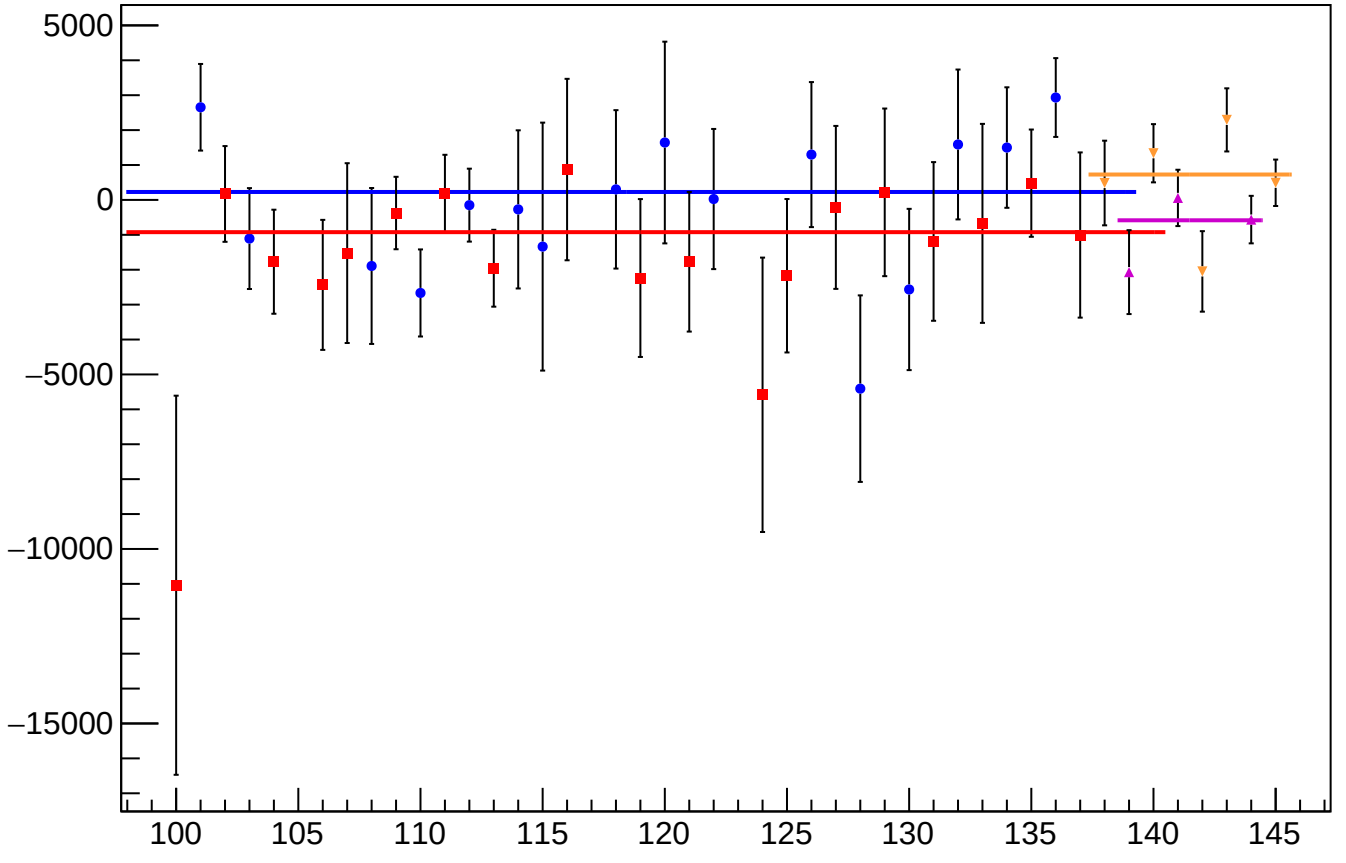
Right: 1052.997+/-0.203 $\chi^2$/NDF: 2315562.9/34

In: 926.018+/-0.221 $\chi^2$/NDF:1888201.7/18

Out: 874.835+/-0.195 $\chi^2$/NDF:2163615.4/23

All: 897.358+/-0.146 $\chi^2$/NDF: 4081982.3/42

# asym_sam_3748_avg_mean vs Slug, Sign Corrected




Right In: 227.502+/-421.838 $\chi^2$/NDF: 24.4/15

Left Out: 727.682+/-396.716 $\chi^2$/NDF:9.5/4

Right Out: -923.649+/-403.102 $\chi^2$/NDF: 11.2/18

Left In: -583.786+/-477.481 $\chi^2$/NDF:2.2/2

Left: 192.086+/-305.138 $\chi^2$/NDF: 16.1/7

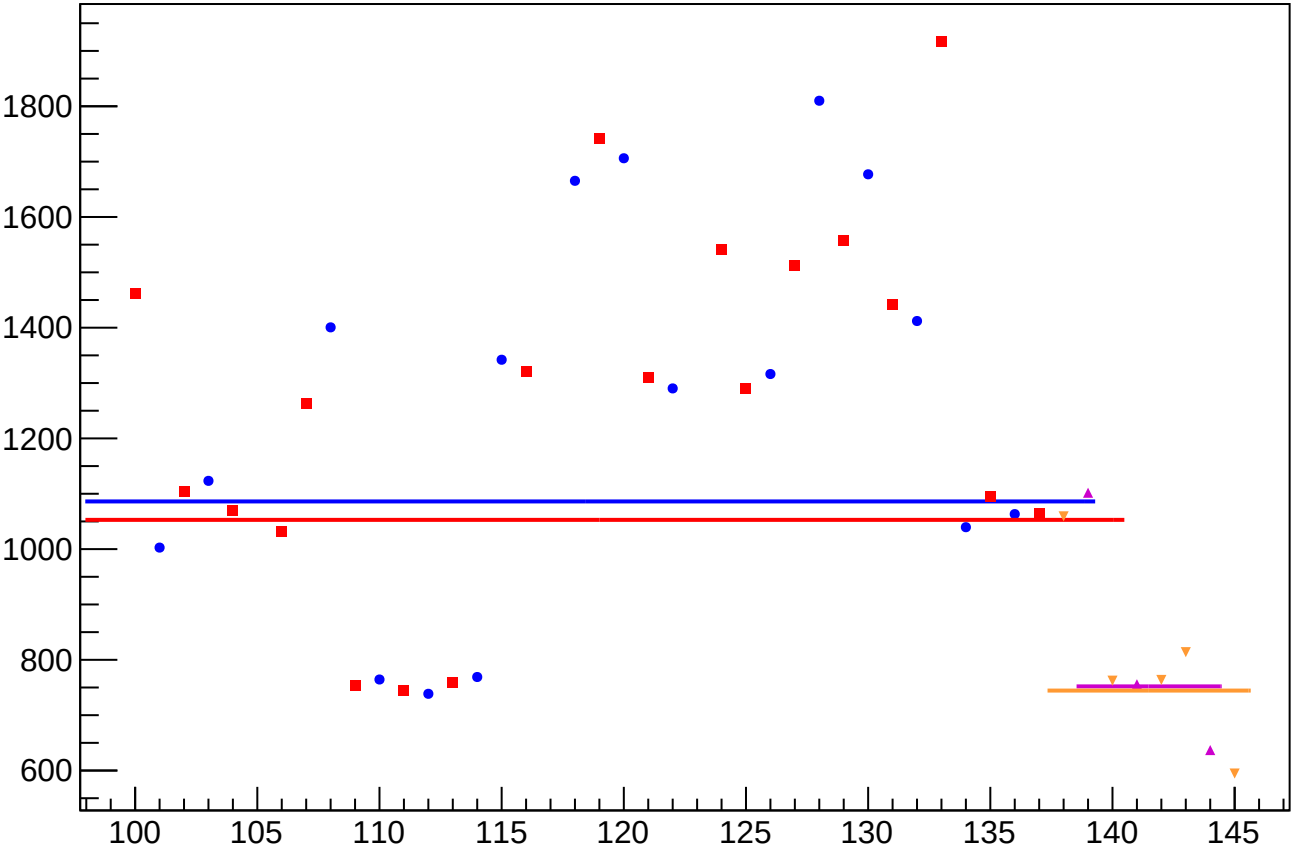
Right: -374.204+/-291.435 $\chi^2$/NDF: 39.5/34

In: -128.136+/-316.136 $\chi^2$/NDF:28.2/18

Out: -84.800+/-282.751 $\chi^2$/NDF:29.2/23

All: -104.060+/-210.753 $\chi^2$/NDF: 57.4/42

# asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 1086.137+/-0.298 $\chi^2$/NDF: 1047479.6/15

Left Out: 744.452+/-0.281 $\chi^2$/NDF:249613.9/4

Right Out: 1052.831+/-0.285 $\chi^2$/NDF: 1194420.8/18

Left In: 752.009+/-0.338 $\chi^2$/NDF:226607.7/2

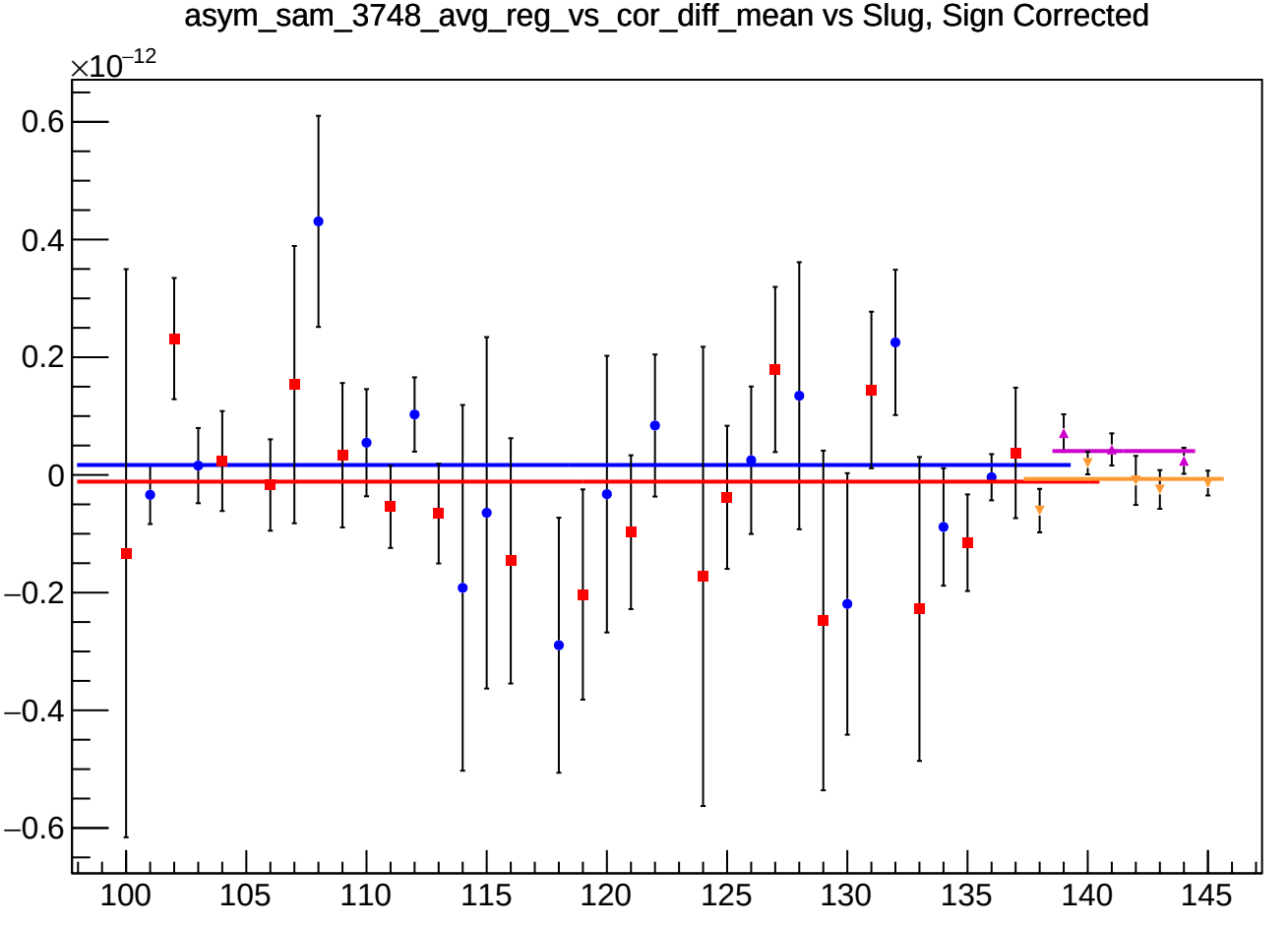
Left: 747.538+/-0.216 $\chi^2$/NDF: 476518.0/7

Right: 1068.728+/-0.206 $\chi^2$/NDF: 2248417.5/34

In: 939.668+/-0.224 $\chi^2$/NDF:1824135.1/18

Out: 896.179+/-0.200 $\chi^2$/NDF:2038627.6/23

All: 915.507+/-0.149 $\chi^2$/NDF: 3883789.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.5/2

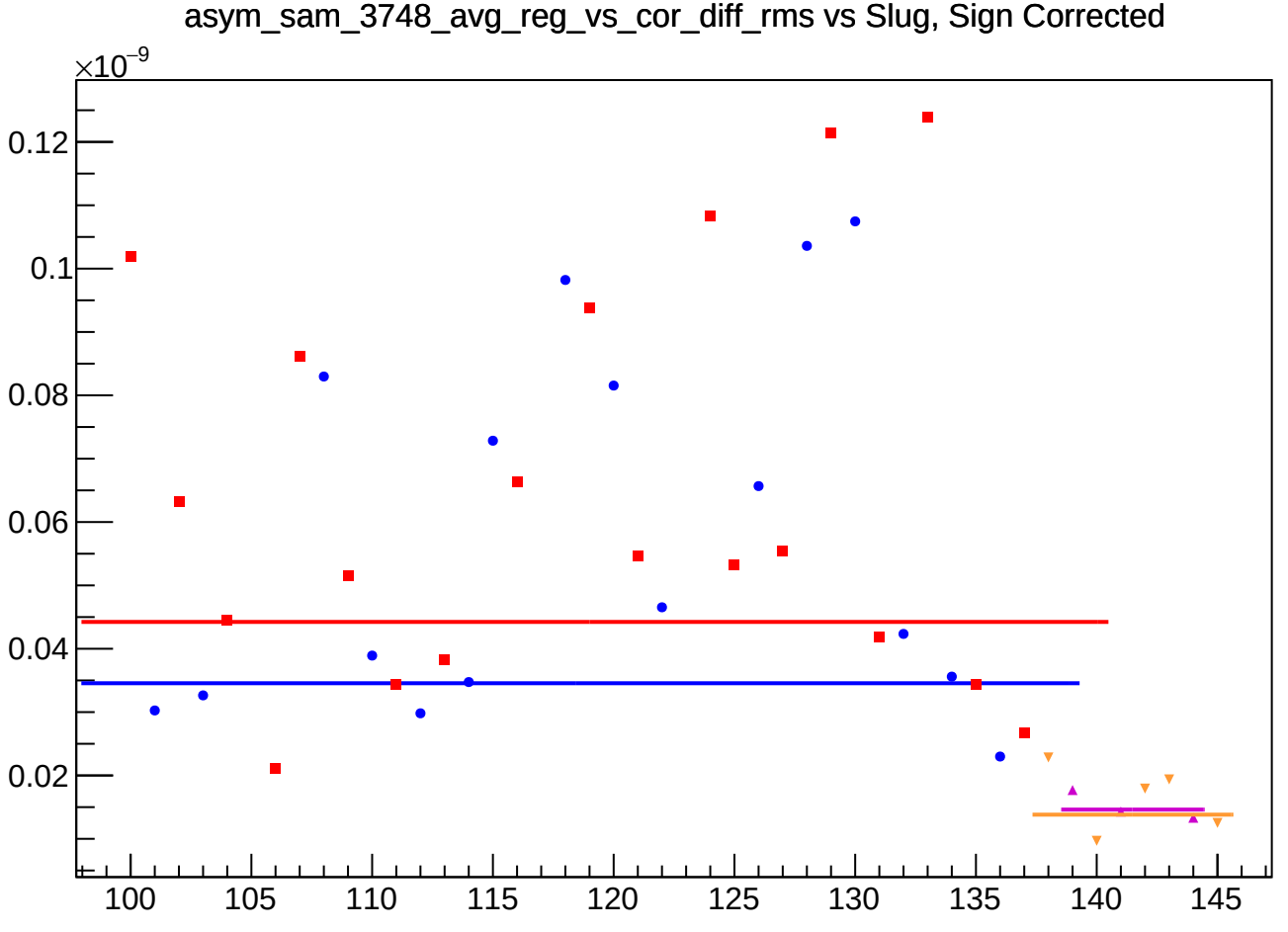
Left: 0.000+/-0.000 $\chi^2$/NDF: 12.1/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:19.2/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 45.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1188815.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:295872.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1073061.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:25847.9/2

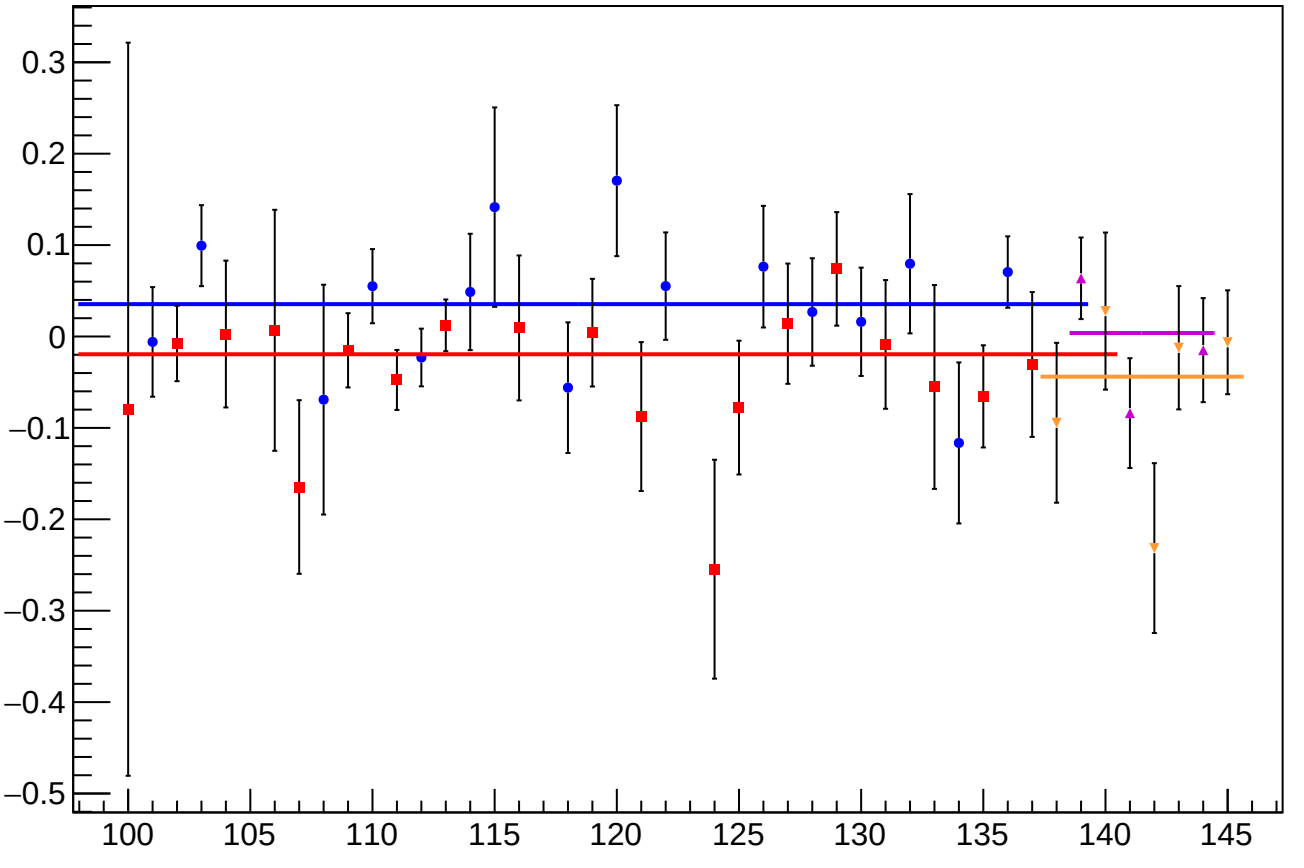
Left: 0.000+/-0.000 $\chi^2$/NDF: 325195.1/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 2418011.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:2343035.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3514958.3/23

All: 0.000+/-0.000 $\chi^2$/NDF: 5899295.0/42




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: -0.044+/-0.033 $\chi^2$/NDF:5.8/4

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.004+/-0.030 $\chi^2$/NDF:4.0/2

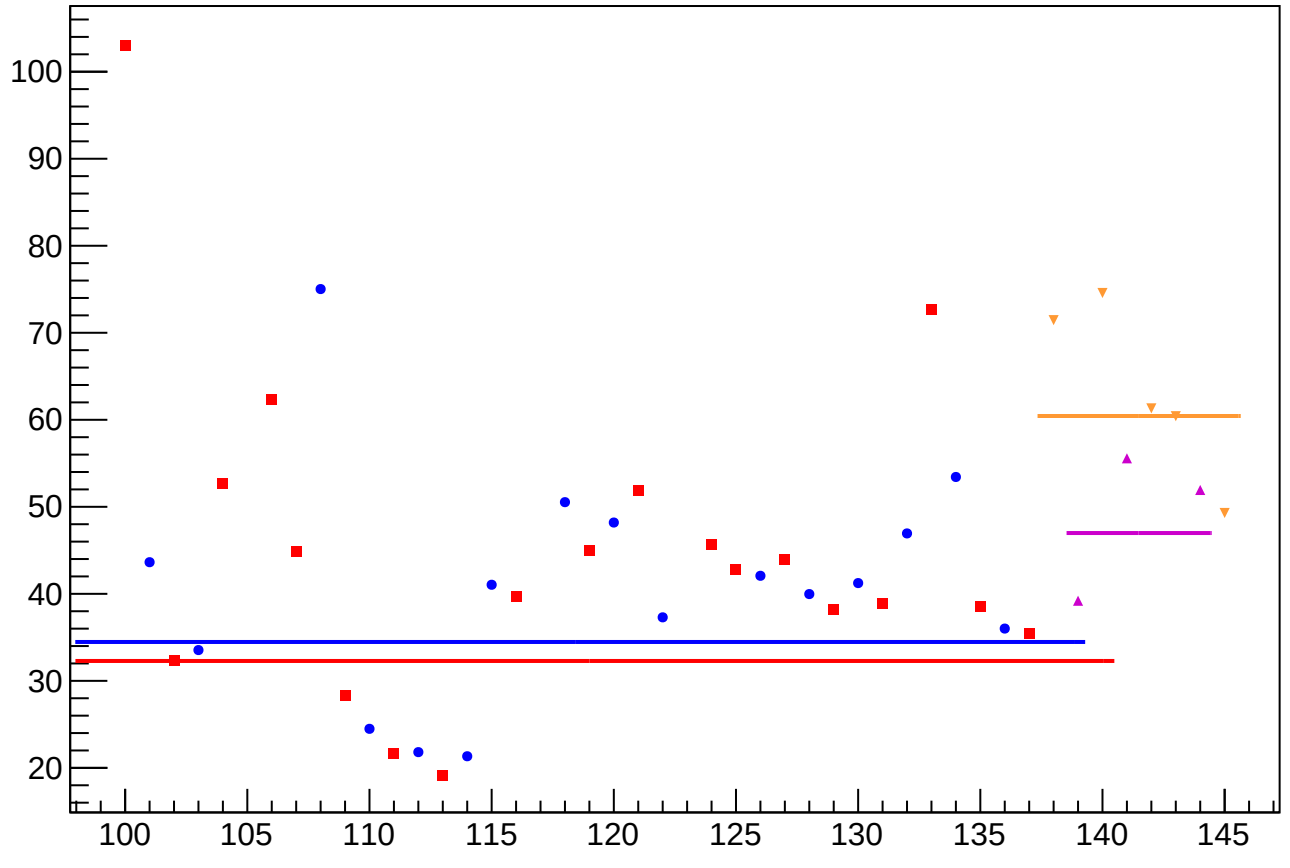
Left: -0.018+/-0.022 $\chi^2$/NDF: 10.9/7

Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.030+/-0.013 $\chi^2$/NDF:21.9/18

Out: -0.023+/-0.012 $\chi^2$/NDF:19.6/23

All: 0.003+/-0.009 $\chi^2$/NDF: 50.5/42




Right In: 34.468+/-0.010 $\chi^2$/NDF: 1171203.3/15

Left Out: 60.436+/-0.023 $\chi^2$/NDF:162930.8/4

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672637.0/18

Left In: 46.987+/-0.021 $\chi^2$/NDF:116757.7/2

Left: 53.118+/-0.016 $\chi^2$/NDF: 459077.9/7

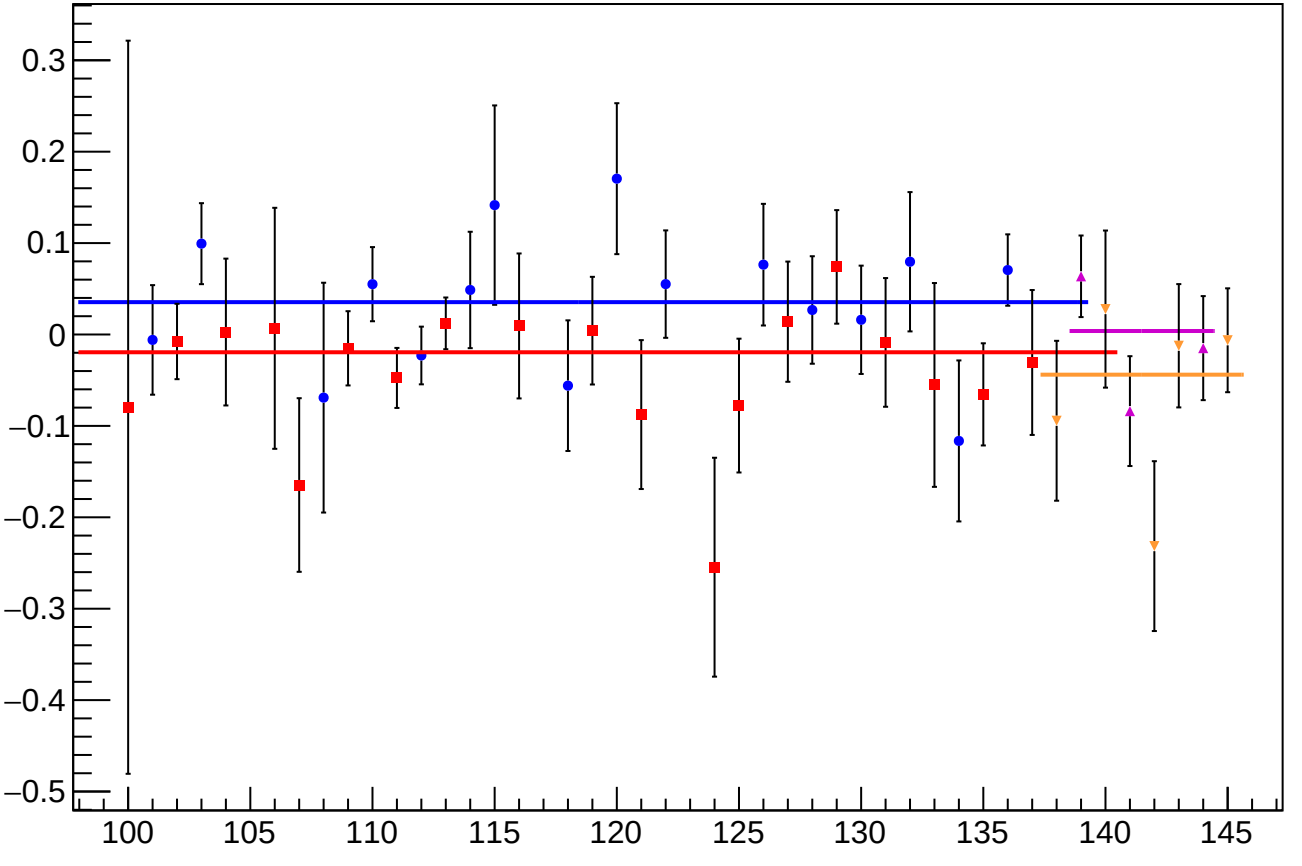
Right: 33.314+/-0.007 $\chi^2$/NDF: 2869944.8/34

In: 36.640+/-0.009 $\chi^2$/NDF:1569802.9/18

Out: 36.104+/-0.009 $\chi^2$/NDF:3084116.3/23

All: 36.363+/-0.006 $\chi^2$/NDF: 4655784.9/42

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: -0.044+/-0.033 $\chi^2$/NDF:5.8/4

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.004+/-0.030 $\chi^2$/NDF:4.0/2

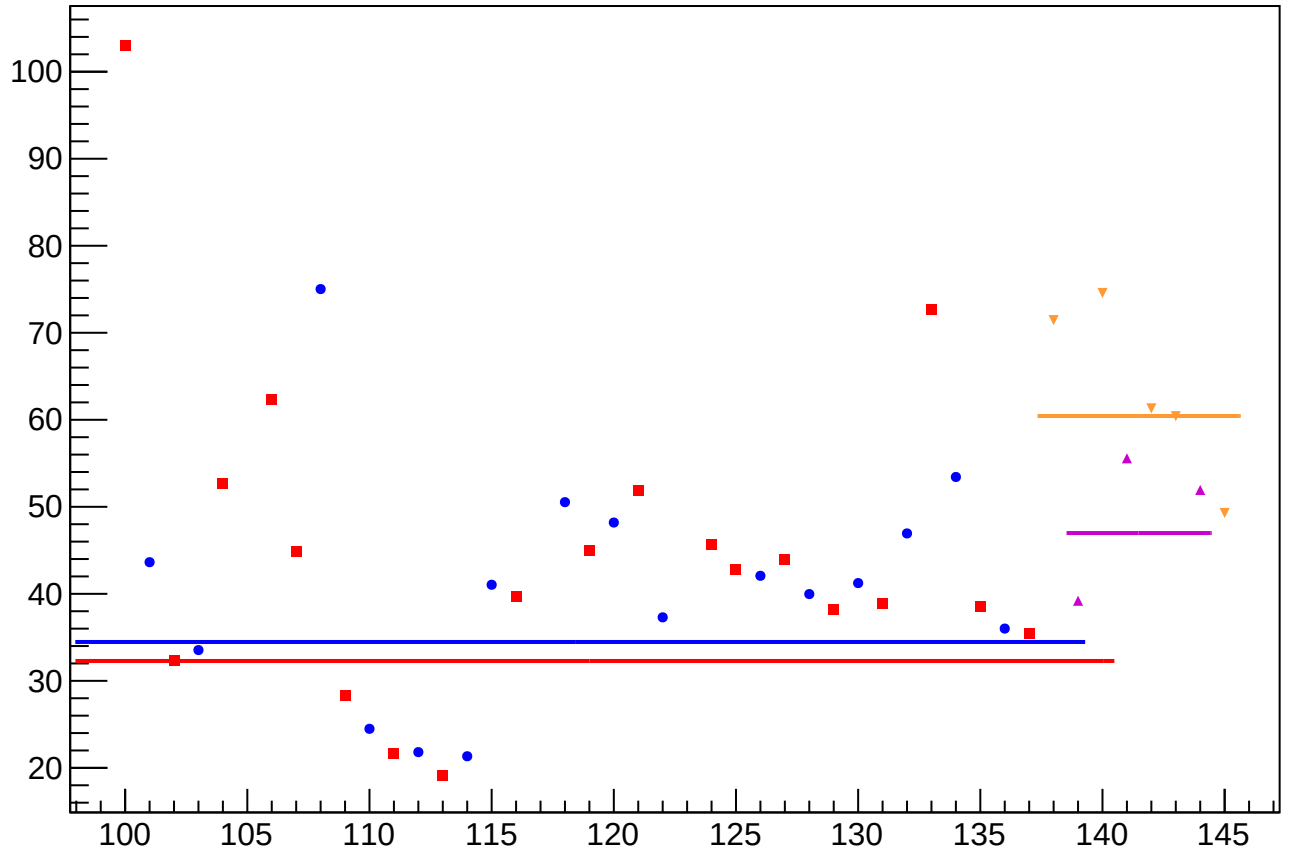
Left: -0.018+/-0.022 $\chi^2$/NDF: 10.9/7

Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.030+/-0.013 $\chi^2$/NDF:21.9/18

Out: -0.023+/-0.012 $\chi^2$/NDF:19.6/23

All: 0.003+/-0.009 $\chi^2$/NDF: 50.5/42




Right In: 34.468+/-0.010 $\chi^2$/NDF: 1171203.3/15

Left Out: 60.436+/-0.023 $\chi^2$/NDF:162930.8/4

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672637.0/18

Left In: 46.987+/-0.021 $\chi^2$/NDF:116757.7/2

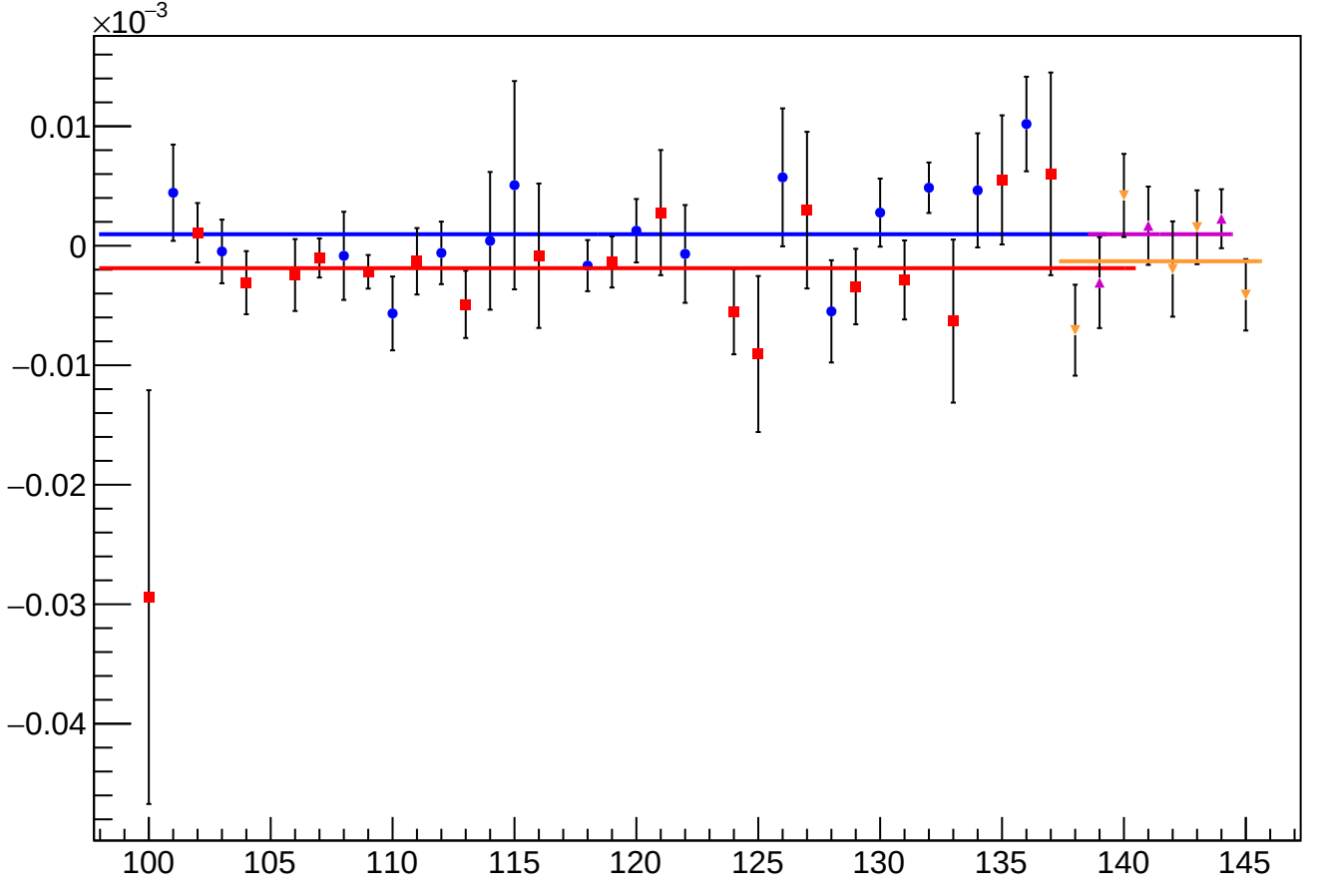
Left: 53.118+/-0.016 $\chi^2$/NDF: 459077.9/7

Right: 33.314+/-0.007 $\chi^2$/NDF: 2869944.8/34

In: 36.640+/-0.009 $\chi^2$/NDF:1569802.9/18

Out: 36.104+/-0.009 $\chi^2$/NDF:3084116.3/23

All: 36.363+/-0.006 $\chi^2$/NDF: 4655784.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:6.6/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 12.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.5/2

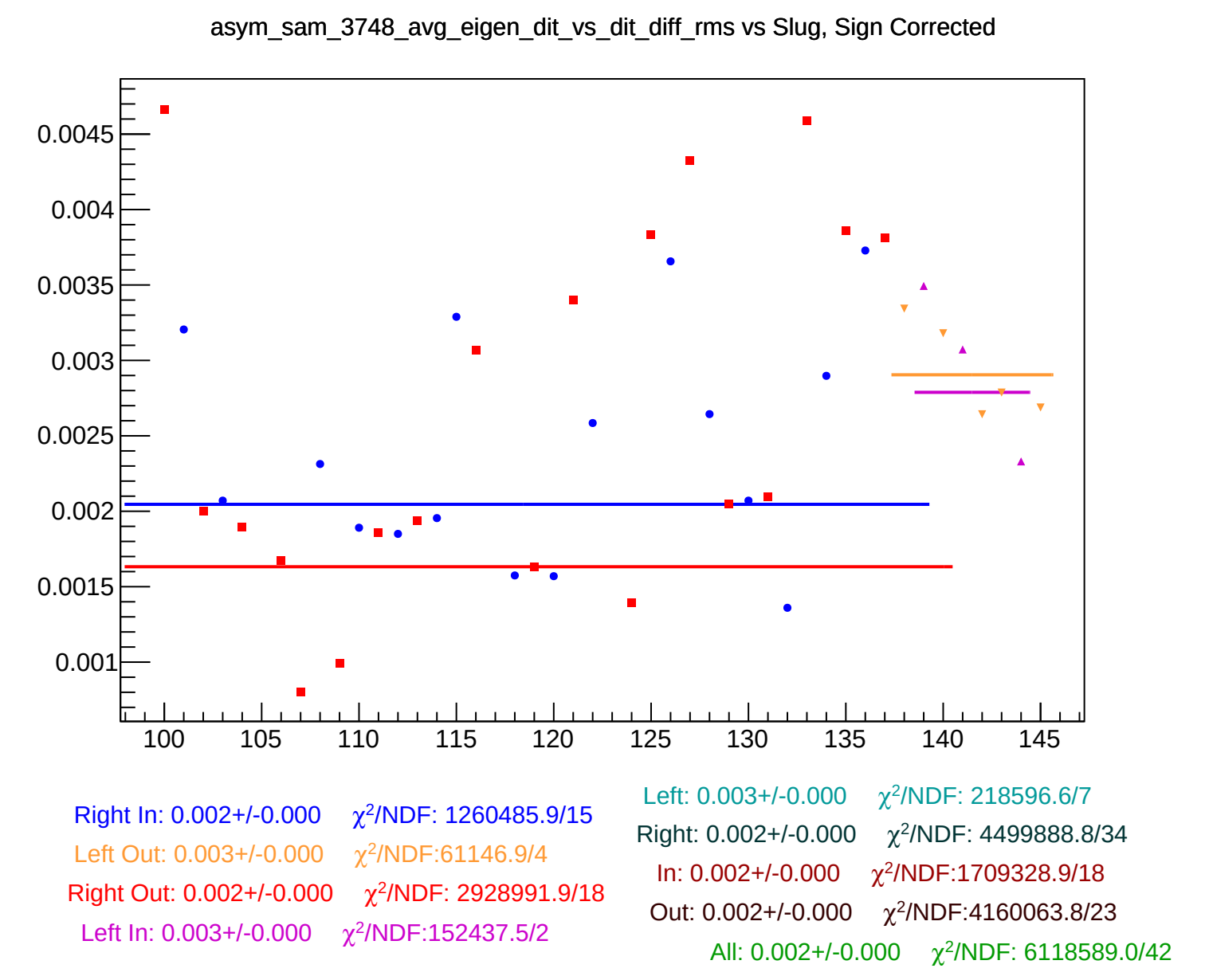
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.0/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.1/34

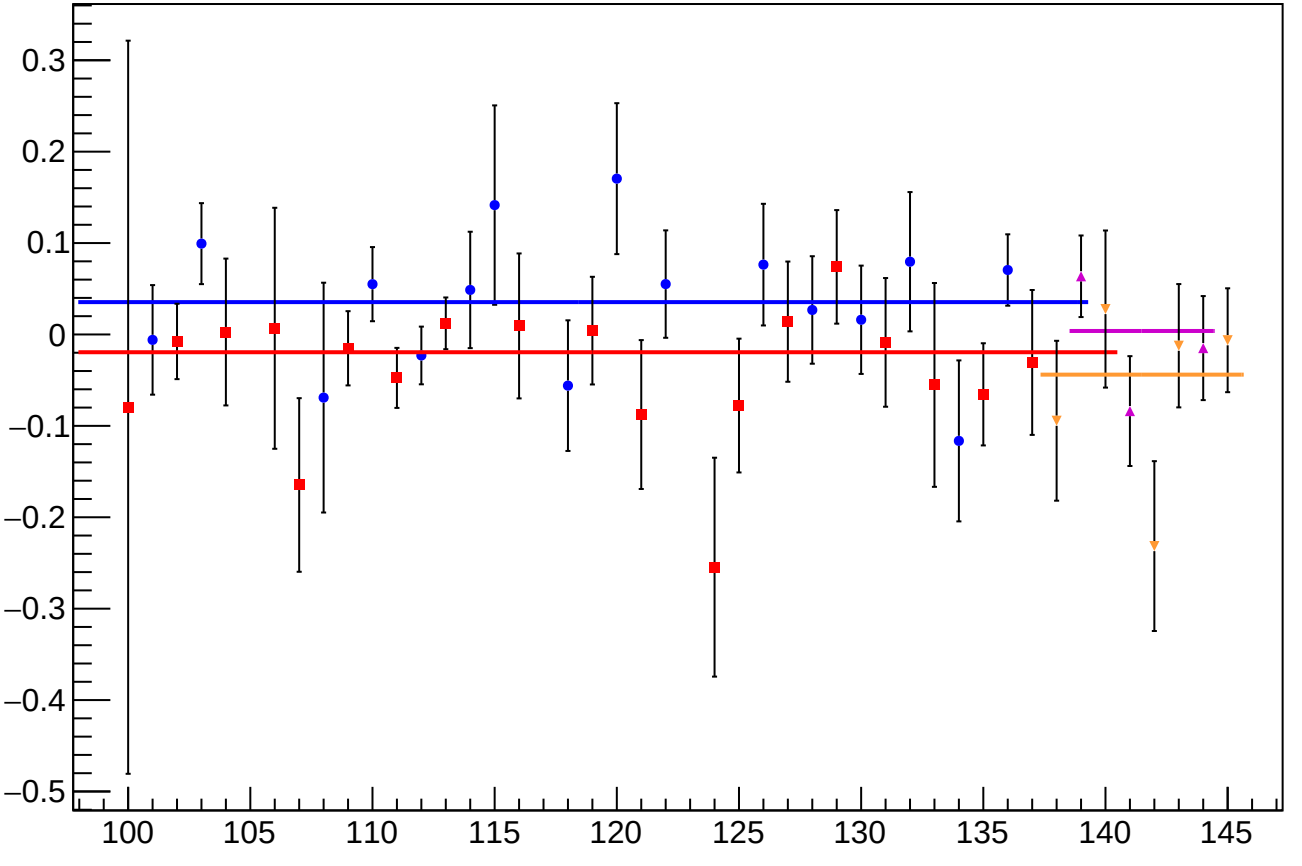
In: 0.000+/-0.000 $\chi^2$/NDF:22.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 50.2/42


asym_sam_3748_avg_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
100
105
110
115
120
125
130
135
140
145
Right In: 0.002+/-0.000 χ²/NDF: 1260485.9/15
Left Out: 0.003+/-0.000 χ²/NDF:61146.9/4
Right Out: 0.002+/-0.000 χ²/NDF: 2928991.9/18
Left In: 0.003+/-0.000 χ²/NDF:152437.5/2
Left: 0.003+/-0.000 χ²/NDF: 218596.6/7
Right: 0.002+/-0.000 χ²/NDF: 4499888.8/34
In: 0.002+/-0.000 χ²/NDF:1709328.9/18
Out: 0.002+/-0.000 χ²/NDF:4160063.8/23
All: 0.002+/-0.000 χ²/NDF: 6118589.0/42

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: -0.044+/-0.033 $\chi^2$/NDF:5.8/4

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.004+/-0.030 $\chi^2$/NDF:4.0/2

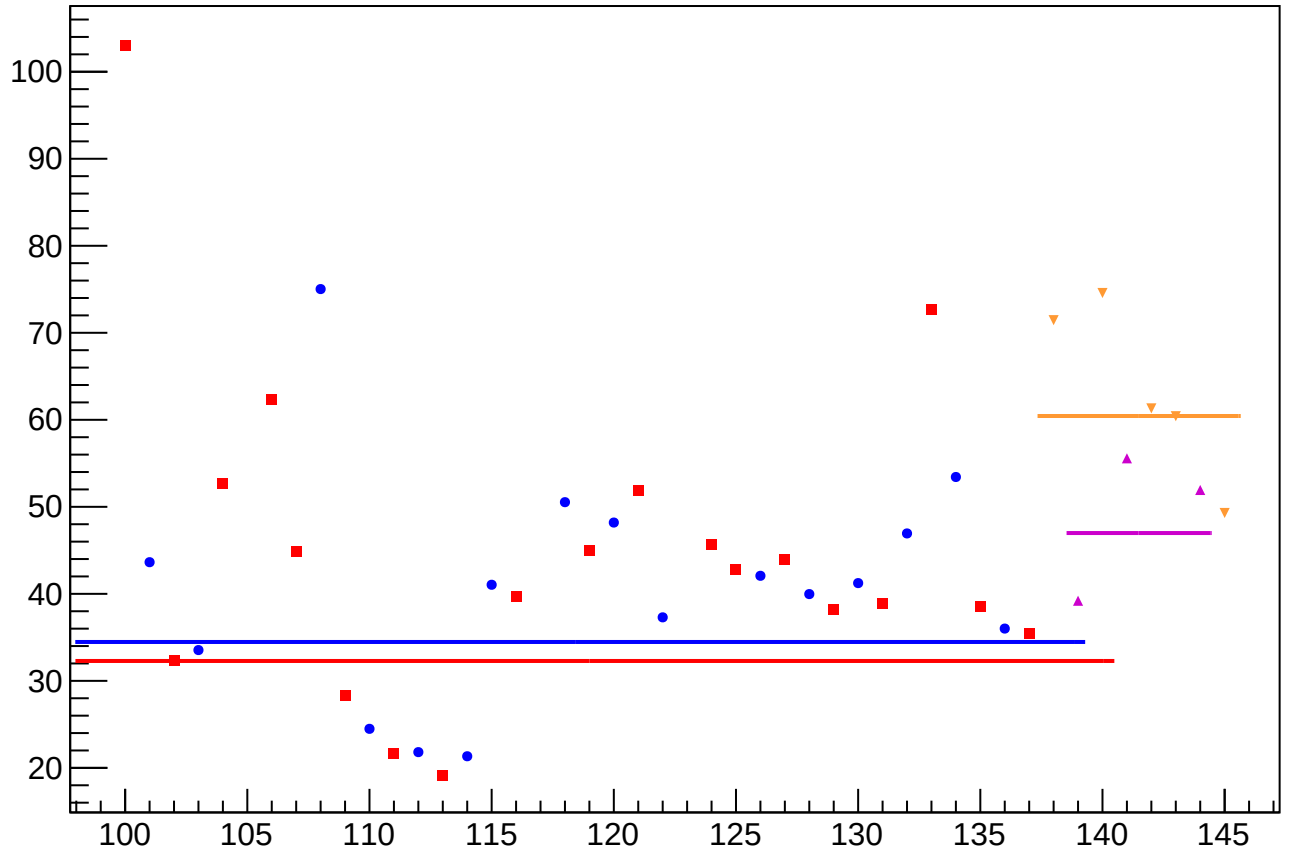
Left: -0.018+/-0.022 $\chi^2$/NDF: 10.9/7

Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.030+/-0.013 $\chi^2$/NDF:21.9/18

Out: -0.023+/-0.012 $\chi^2$/NDF:19.6/23

All: 0.003+/-0.009 $\chi^2$/NDF: 50.5/42




Right In: 34.469+/-0.010 $\chi^2$/NDF: 1171158.4/15

Left Out: 60.437+/-0.023 $\chi^2$/NDF:162912.7/4

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672606.5/18

Left In: 46.988+/-0.021 $\chi^2$/NDF:116773.1/2

Left: 53.119+/-0.016 $\chi^2$/NDF: 459092.1/7

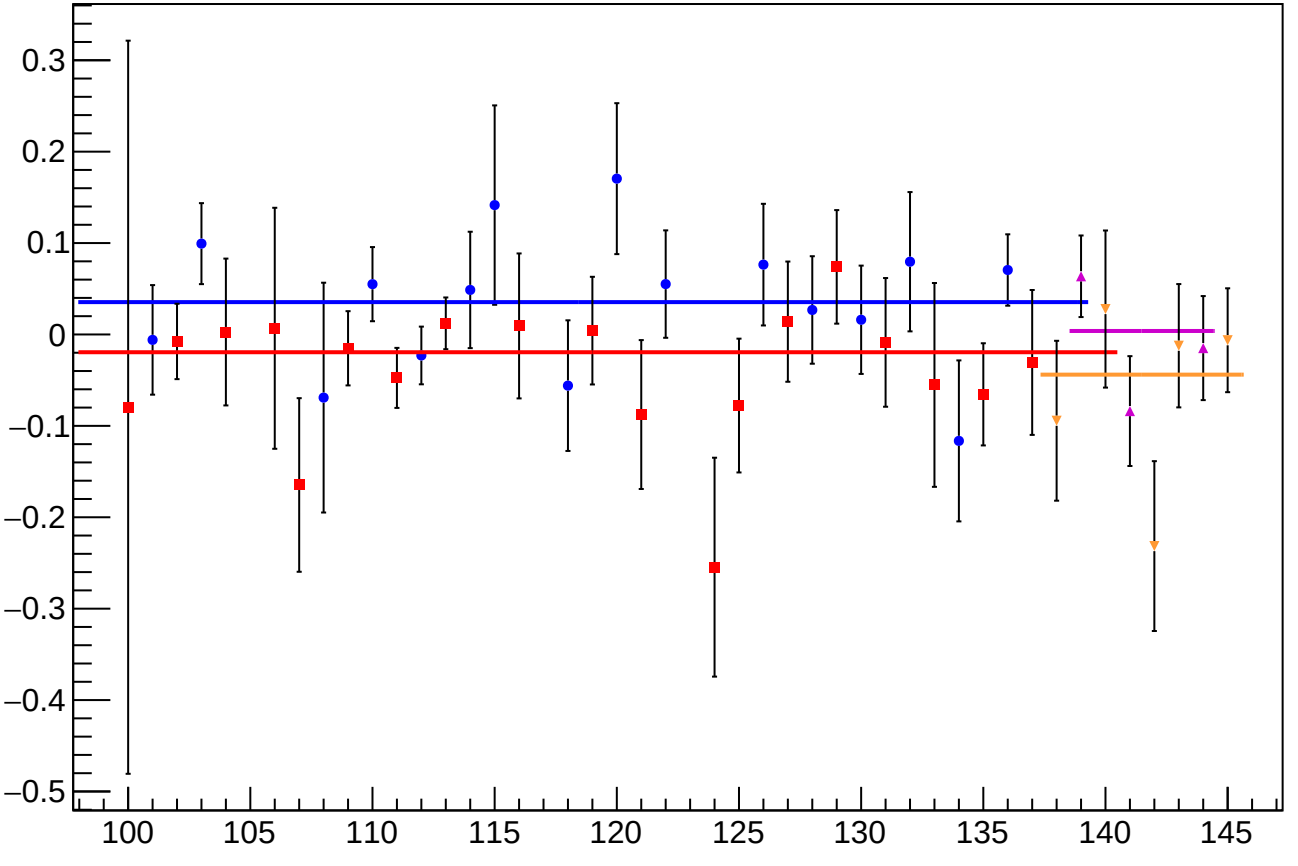
Right: 33.315+/-0.007 $\chi^2$/NDF: 2869868.2/34

In: 36.641+/-0.009 $\chi^2$/NDF:1569764.8/18

Out: 36.104+/-0.009 $\chi^2$/NDF:3084088.9/23

All: 36.363+/-0.006 $\chi^2$/NDF: 4655718.8/42

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.035+/-0.014 $\chi^2$/NDF: 16.9/15

Left Out: -0.044+/-0.033 $\chi^2$/NDF:5.8/4

Right Out: -0.019+/-0.013 $\chi^2$/NDF: 13.4/18

Left In: 0.004+/-0.030 $\chi^2$/NDF:4.0/2

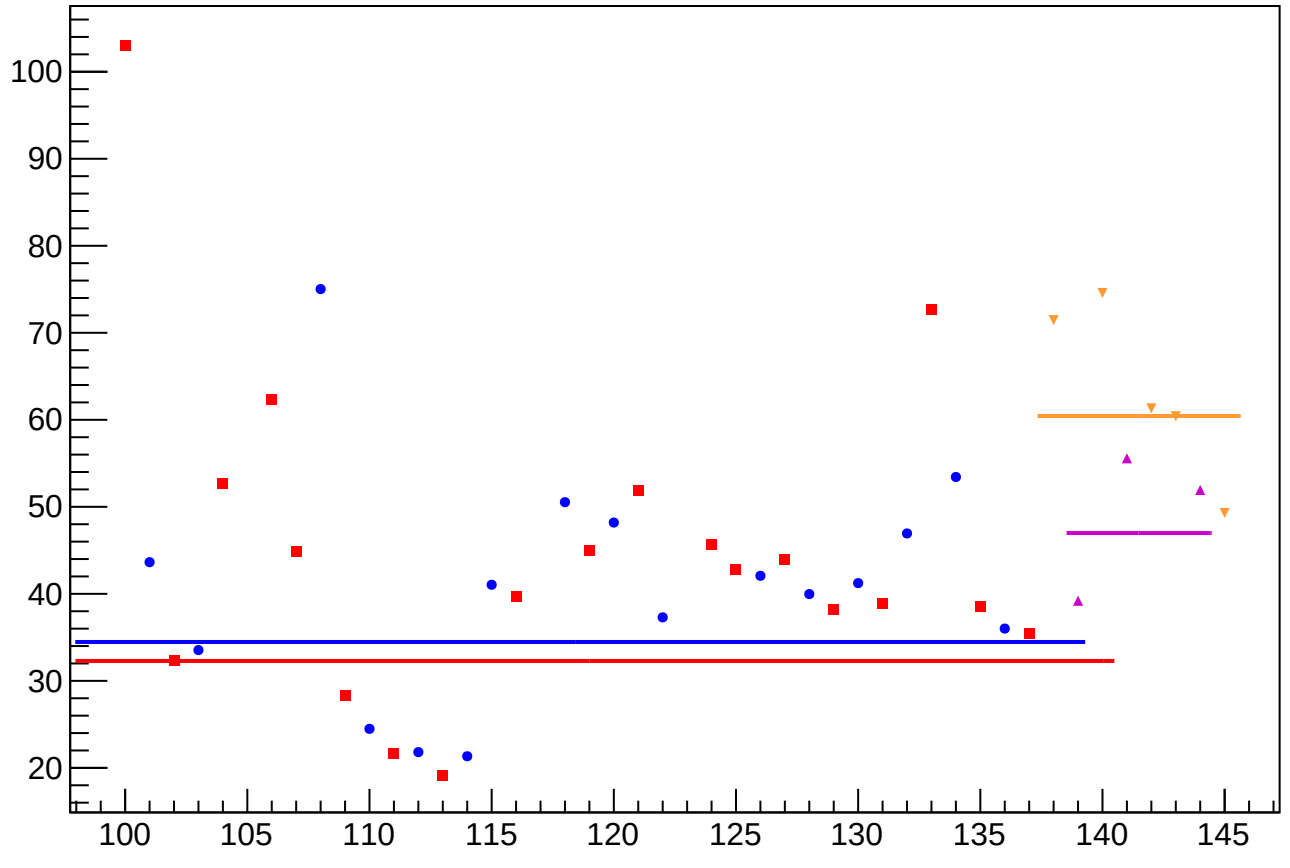
Left: -0.018+/-0.022 $\chi^2$/NDF: 10.9/7

Right: 0.006+/-0.010 $\chi^2$/NDF: 38.6/34

In: 0.030+/-0.013 $\chi^2$/NDF:21.9/18

Out: -0.023+/-0.012 $\chi^2$/NDF:19.6/23

All: 0.003+/-0.009 $\chi^2$/NDF: 50.5/42




Right In: 34.469+/-0.010 $\chi^2$/NDF: 1171158.4/15

Left Out: 60.437+/-0.023 $\chi^2$/NDF:162912.7/4

Right Out: 32.285+/-0.009 $\chi^2$/NDF: 1672606.5/18

Left In: 46.988+/-0.021 $\chi^2$/NDF:116773.1/2

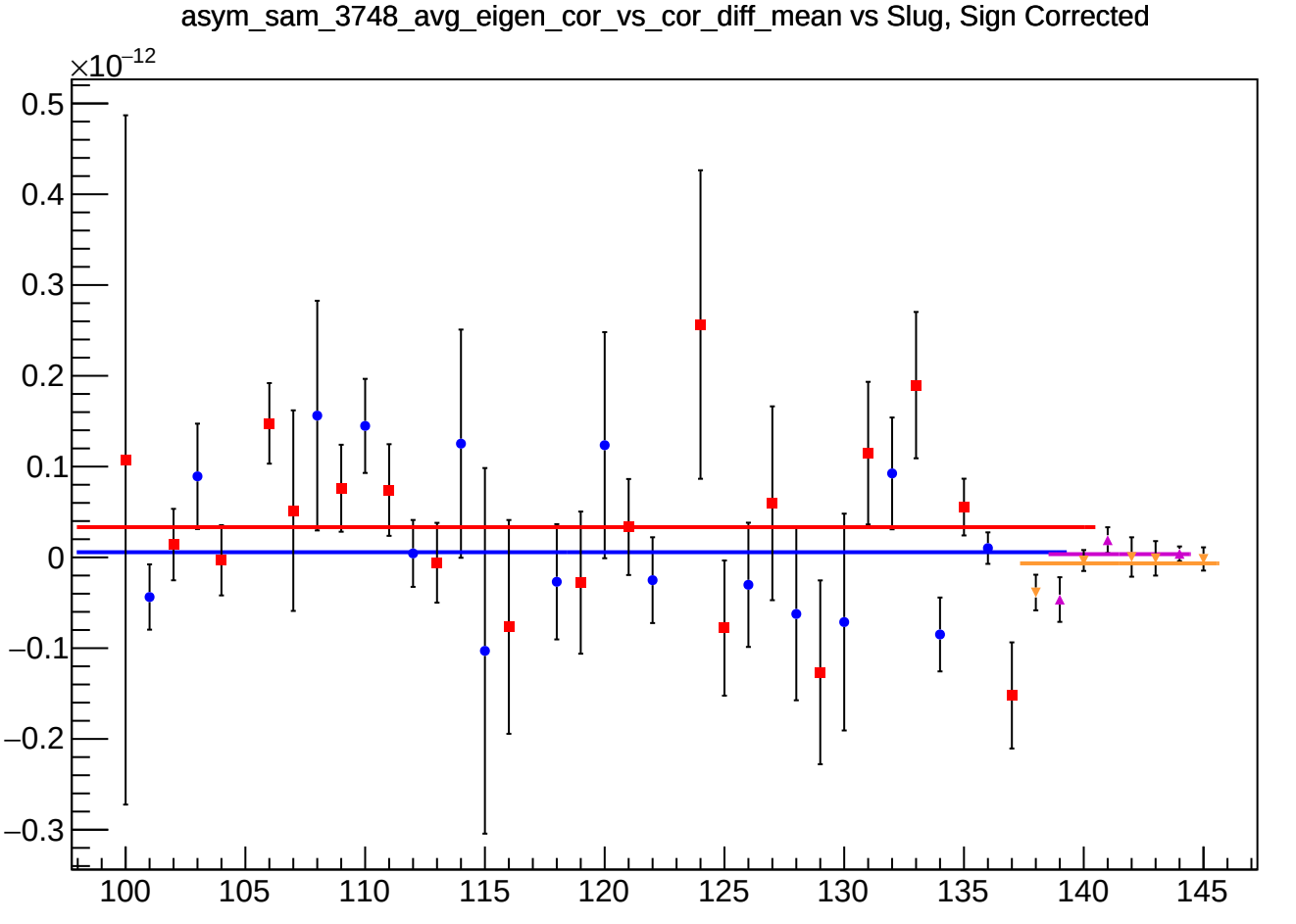
Left: 53.119+/-0.016 $\chi^2$/NDF: 459092.1/7

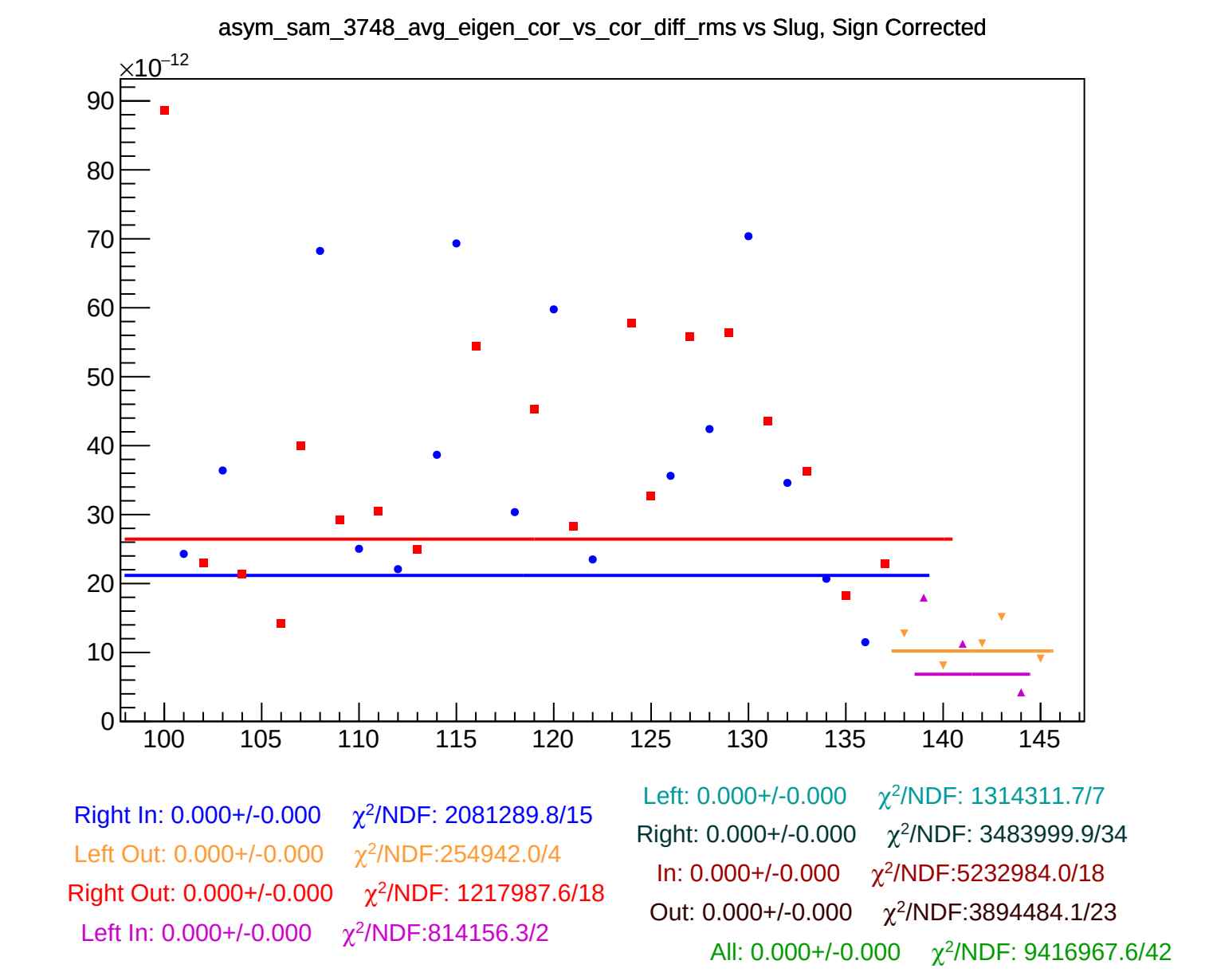
Right: 33.315+/-0.007 $\chi^2$/NDF: 2869868.2/34

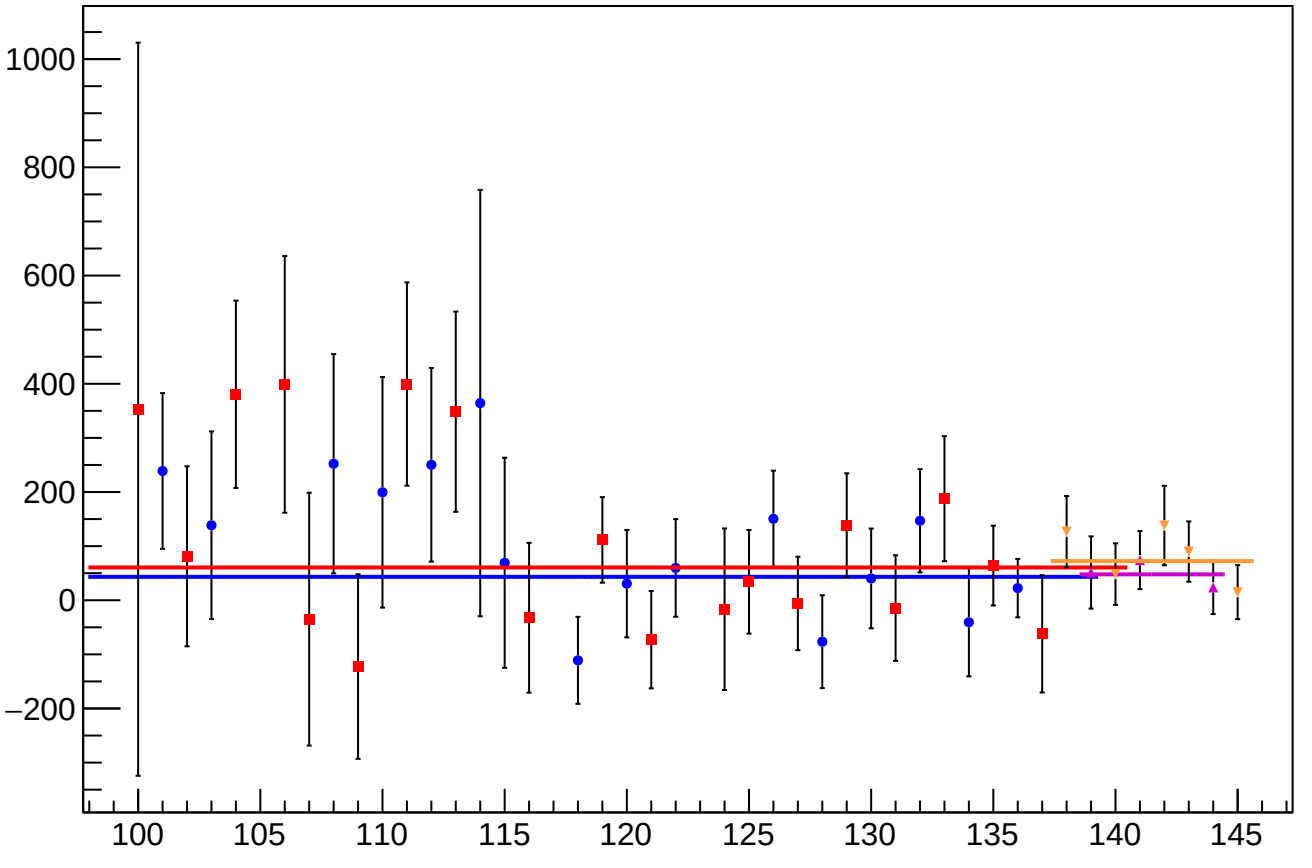
In: 36.641+/-0.009 $\chi^2$/NDF:1569764.8/18

Out: 36.104+/-0.009 $\chi^2$/NDF:3084088.9/23

All: 36.363+/-0.006 $\chi^2$/NDF: 4655718.8/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 23.6/15
Left Out: -0.000+/-0.000 χ²/NDF:3.1/4
Right Out: 0.000+/-0.000 χ²/NDF: 33.5/18
Left In: 0.000+/-0.000 χ²/NDF:5.3/2
Left: -0.000+/-0.000 χ²/NDF: 9.5/7
Right: 0.000+/-0.000 χ²/NDF: 59.6/34
In: 0.000+/-0.000 χ²/NDF:28.9/18
Out: 0.000+/-0.000 χ²/NDF:43.9/23
All: 0.000+/-0.000 χ²/NDF: 72.9/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2081289.8/15
Left Out: 0.000+/-0.000 χ²/NDF:254942.0/4
Right Out: 0.000+/-0.000 χ²/NDF: 1217987.6/18
Left In: 0.000+/-0.000 χ²/NDF:814156.3/2
Left: 0.000+/-0.000 χ²/NDF: 1314311.7/7
Right: 0.000+/-0.000 χ²/NDF: 3483999.9/34
In: 0.000+/-0.000 χ²/NDF:5232984.0/18
Out: 0.000+/-0.000 χ²/NDF:3894484.1/23
All: 0.000+/-0.000 χ²/NDF: 9416967.6/42




Right In: 43.247+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 72.386+/-26.274 $\chi^2$/NDF:3.1/4

Right Out: 60.582+/-26.894 $\chi^2$/NDF: 20.4/18

Left In: 47.885+/-31.881 $\chi^2$/NDF:0.5/2

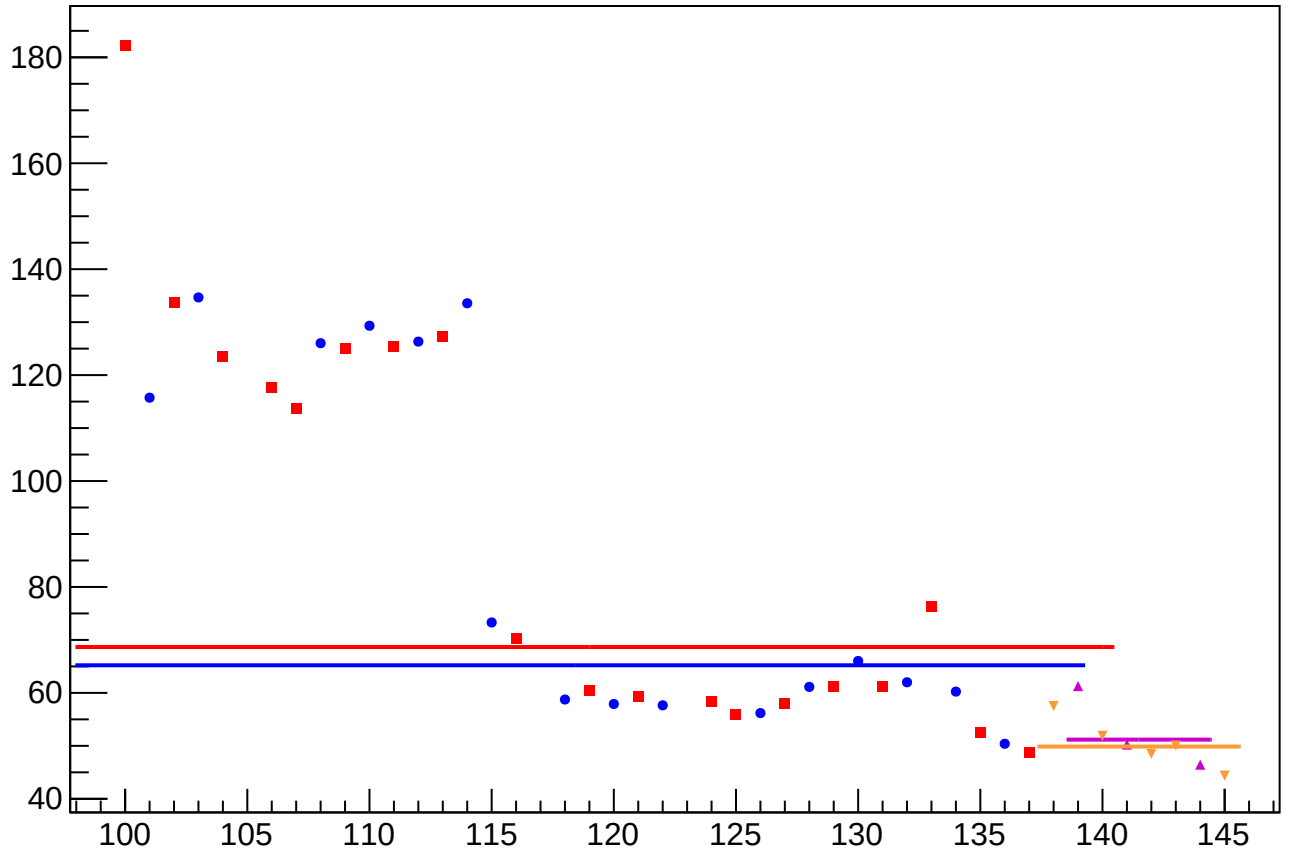
Left: 62.476+/-20.276 $\chi^2$/NDF: 3.9/7

Right: 51.548+/-18.611 $\chi^2$/NDF: 35.6/34

In: 45.081+/-20.046 $\chi^2$/NDF:15.4/18

Out: 66.621+/-18.794 $\chi^2$/NDF:23.6/23

All: 56.545+/-13.711 $\chi^2$/NDF: 39.7/42




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446504.6/15

Left Out: 49.871+/-0.019 $\chi^2$/NDF:54486.0/4

Right Out: 68.656+/-0.019 $\chi^2$/NDF: 1640900.1/18

Left In: 51.177+/-0.023 $\chi^2$/NDF:64895.3/2

Left: 50.399+/-0.014 $\chi^2$/NDF: 121382.3/7

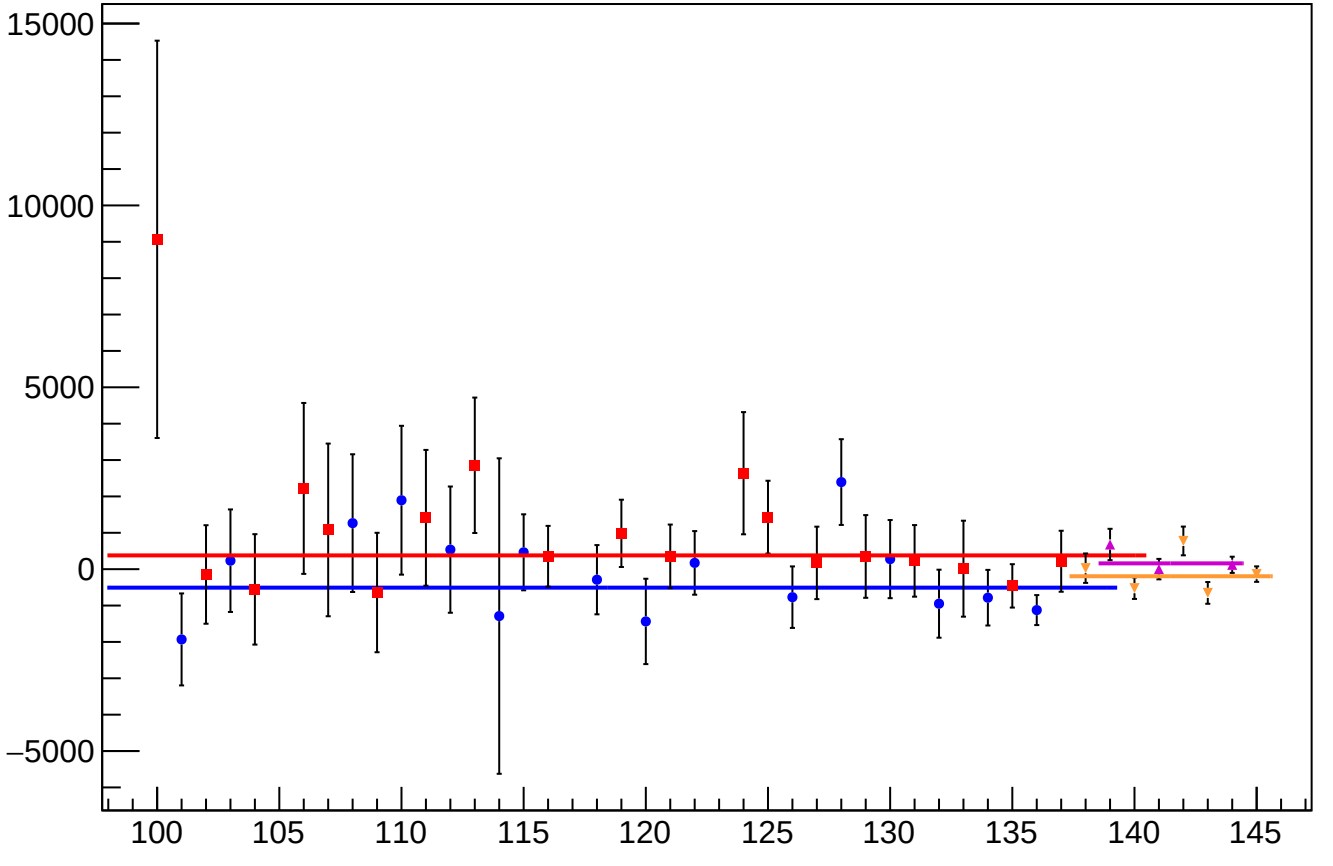
Right: 66.862+/-0.013 $\chi^2$/NDF: 3104495.7/34

In: 59.663+/-0.014 $\chi^2$/NDF:1745757.9/18

Out: 59.044+/-0.013 $\chi^2$/NDF:2194672.6/23

All: 59.334+/-0.010 $\chi^2$/NDF: 3941445.4/42

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: -194.545+/-132.229 $\chi^2$/NDF:10.0/4

Right Out: 378.892+/-256.407 $\chi^2$/NDF: 11.7/18

Left In: 159.404+/-161.812 $\chi^2$/NDF:1.8/2

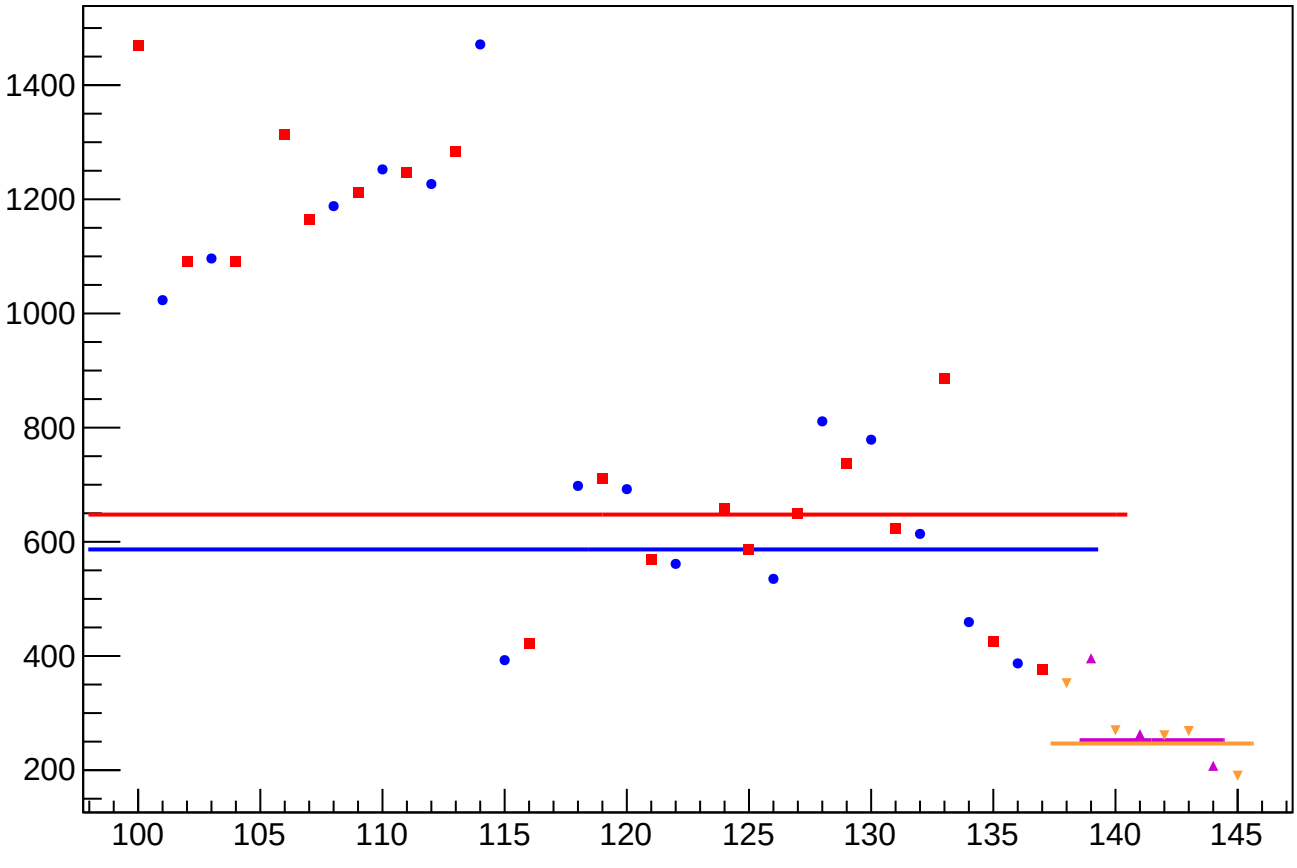
Left: -52.824+/-102.390 $\chi^2$/NDF: 14.7/7

Right: -99.449+/-174.019 $\chi^2$/NDF: 33.8/34

In: -52.836+/-133.626 $\chi^2$/NDF:22.8/18

Out: -74.079+/-117.522 $\chi^2$/NDF:25.7/23

All: -64.814+/-88.248 $\chi^2$/NDF: 48.5/42




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053133.2/15

Left Out: 246.708+/-0.094 $\chi^2$/NDF:301792.3/4

Right Out: 647.736+/-0.181 $\chi^2$/NDF: 2105638.0/18

Left In: 252.524+/-0.114 $\chi^2$/NDF:305432.4/2

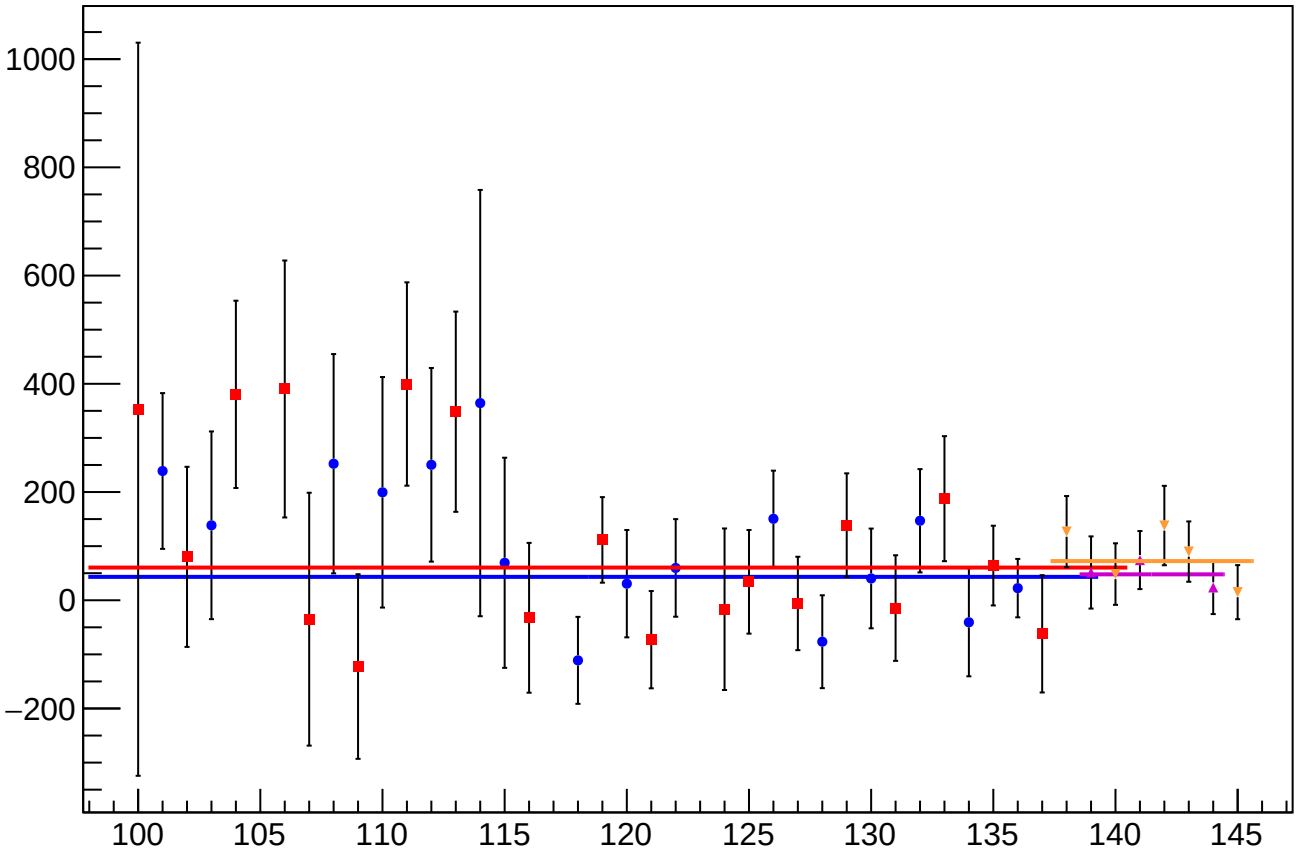
Left: 249.037+/-0.072 $\chi^2$/NDF: 608774.4/7

Right: 614.784+/-0.123 $\chi^2$/NDF: 4220010.2/34

In: 358.789+/-0.094 $\chi^2$/NDF:5070628.9/18

Out: 330.955+/-0.083 $\chi^2$/NDF:6272030.6/23

All: 343.095+/-0.062 $\chi^2$/NDF: 11391590.5/42




Right In: 43.239+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 72.389+/-26.274 $\chi^2$/NDF:3.1/4

Right Out: 60.432+/-26.895 $\chi^2$/NDF: 20.3/18

Left In: 47.891+/-31.881 $\chi^2$/NDF:0.5/2

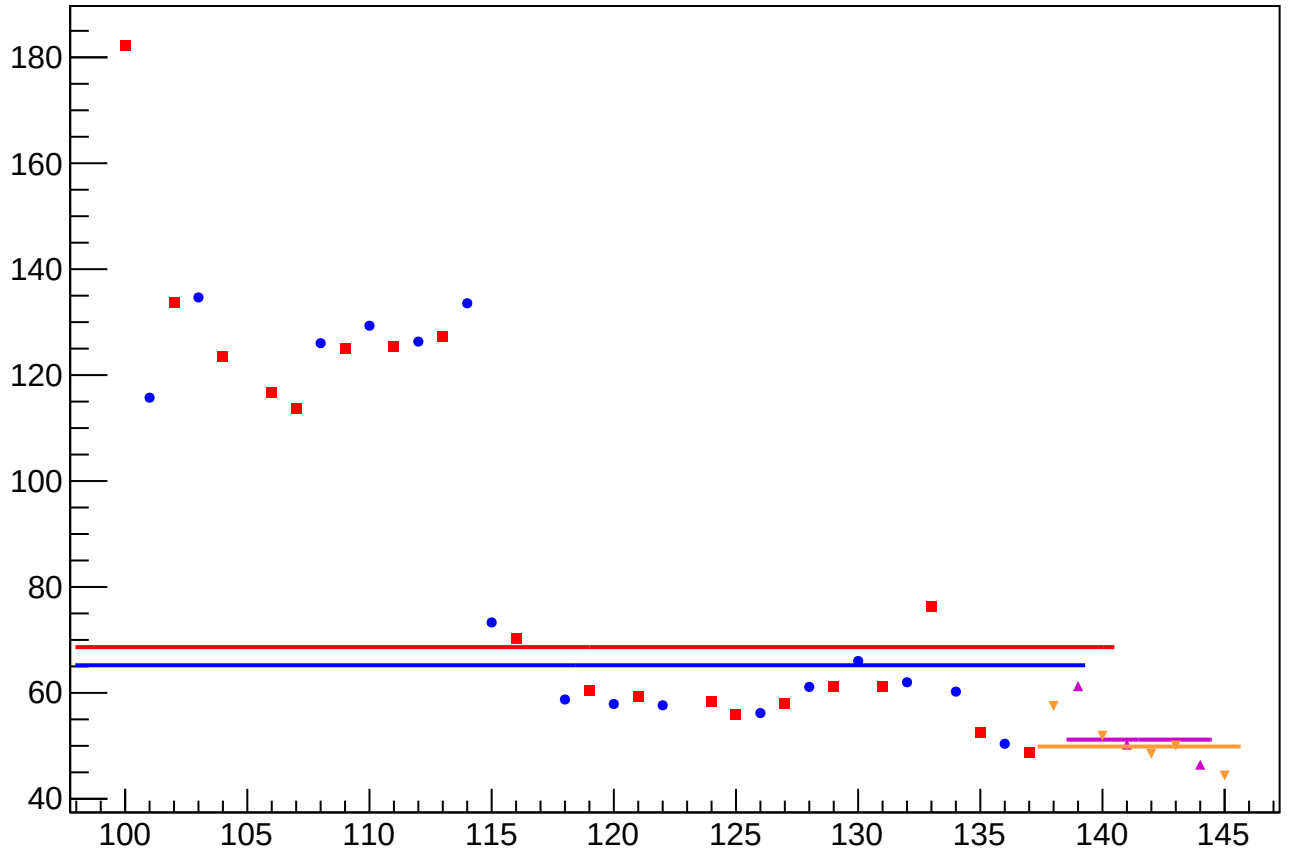
Left: 62.480+/-20.276 $\chi^2$/NDF: 3.9/7

Right: 51.472+/-18.611 $\chi^2$/NDF: 35.5/34

In: 45.078+/-20.046 $\chi^2$/NDF:15.4/18

Out: 66.550+/-18.794 $\chi^2$/NDF:23.5/23

All: 56.506+/-13.711 $\chi^2$/NDF: 39.5/42




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446506.9/15

Left Out: 49.871+/-0.019 $\chi^2$/NDF:54486.0/4

Right Out: 68.642+/-0.019 $\chi^2$/NDF: 1637558.1/18

Left In: 51.177+/-0.023 $\chi^2$/NDF:64895.3/2

Left: 50.399+/-0.014 $\chi^2$/NDF: 121382.3/7

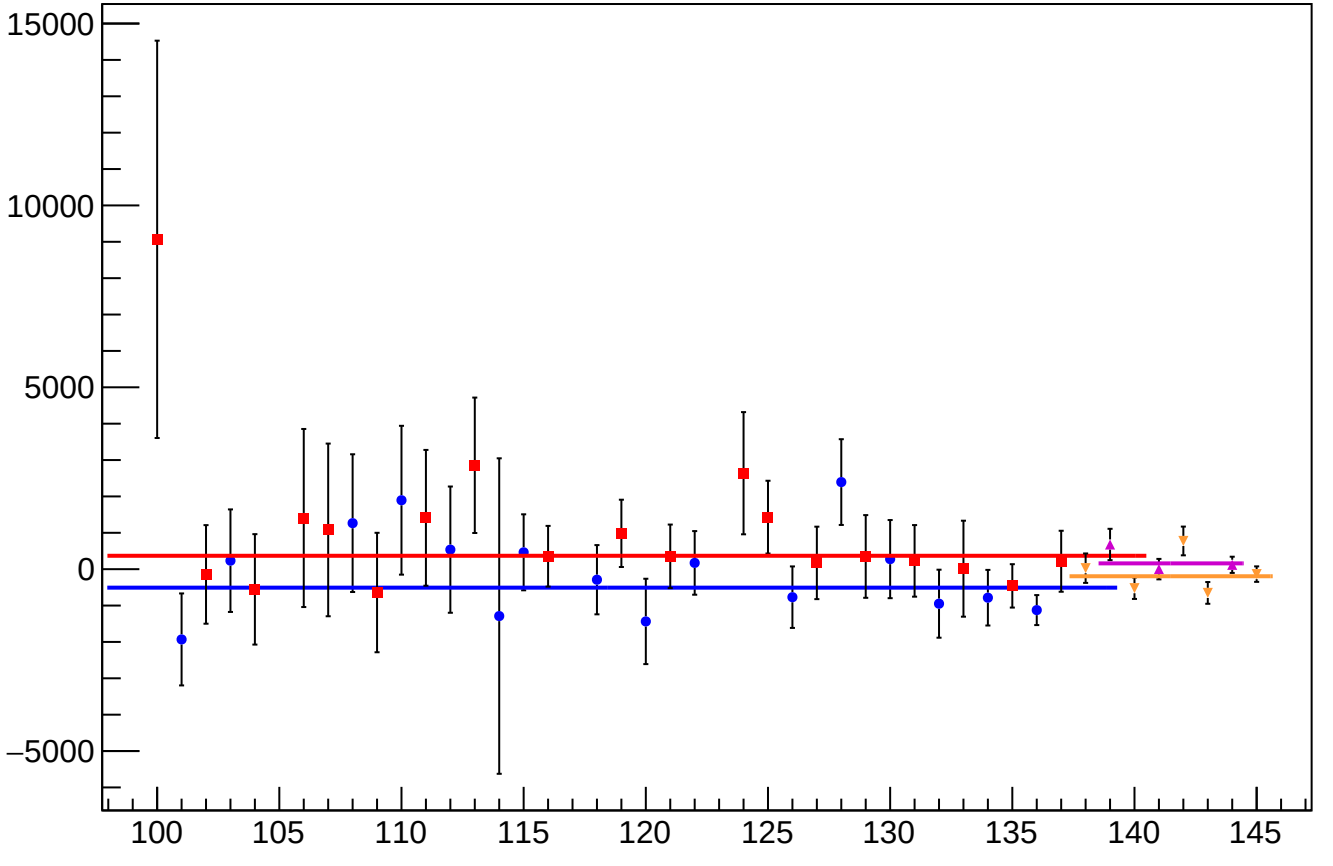
Right: 66.855+/-0.013 $\chi^2$/NDF: 3101012.7/34

In: 59.663+/-0.014 $\chi^2$/NDF:1745760.2/18

Out: 59.037+/-0.013 $\chi^2$/NDF:2190549.6/23

All: 59.330+/-0.010 $\chi^2$/NDF: 3937348.8/42

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: -194.541+/-132.229 $\chi^2$/NDF:10.0/4

Right Out: 368.334+/-256.534 $\chi^2$/NDF: 11.3/18

Left In: 159.410+/-161.812 $\chi^2$/NDF:1.8/2

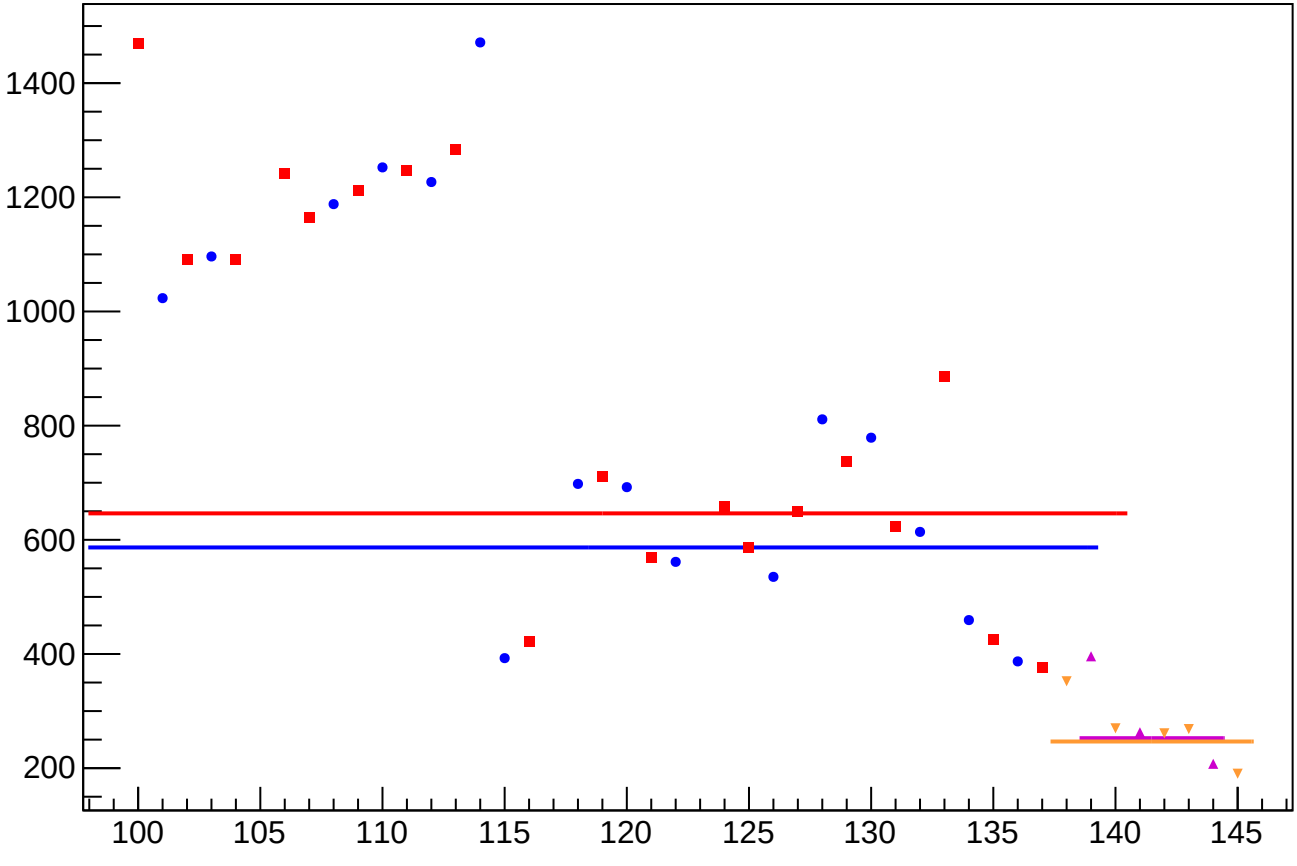
Left: -52.819+/-102.390 $\chi^2$/NDF: 14.7/7

Right: -104.517+/-174.059 $\chi^2$/NDF: 33.2/34

In: -52.827+/-133.626 $\chi^2$/NDF:22.8/18

Out: -76.386+/-117.534 $\chi^2$/NDF:25.1/23

All: -66.110+/-88.253 $\chi^2$/NDF: 47.9/42




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053169.7/15

Left Out: 246.707+/-0.094 $\chi^2$/NDF:301792.3/4

Right Out: 646.328+/-0.181 $\chi^2$/NDF: 2063185.3/18

Left In: 252.524+/-0.114 $\chi^2$/NDF:305431.6/2

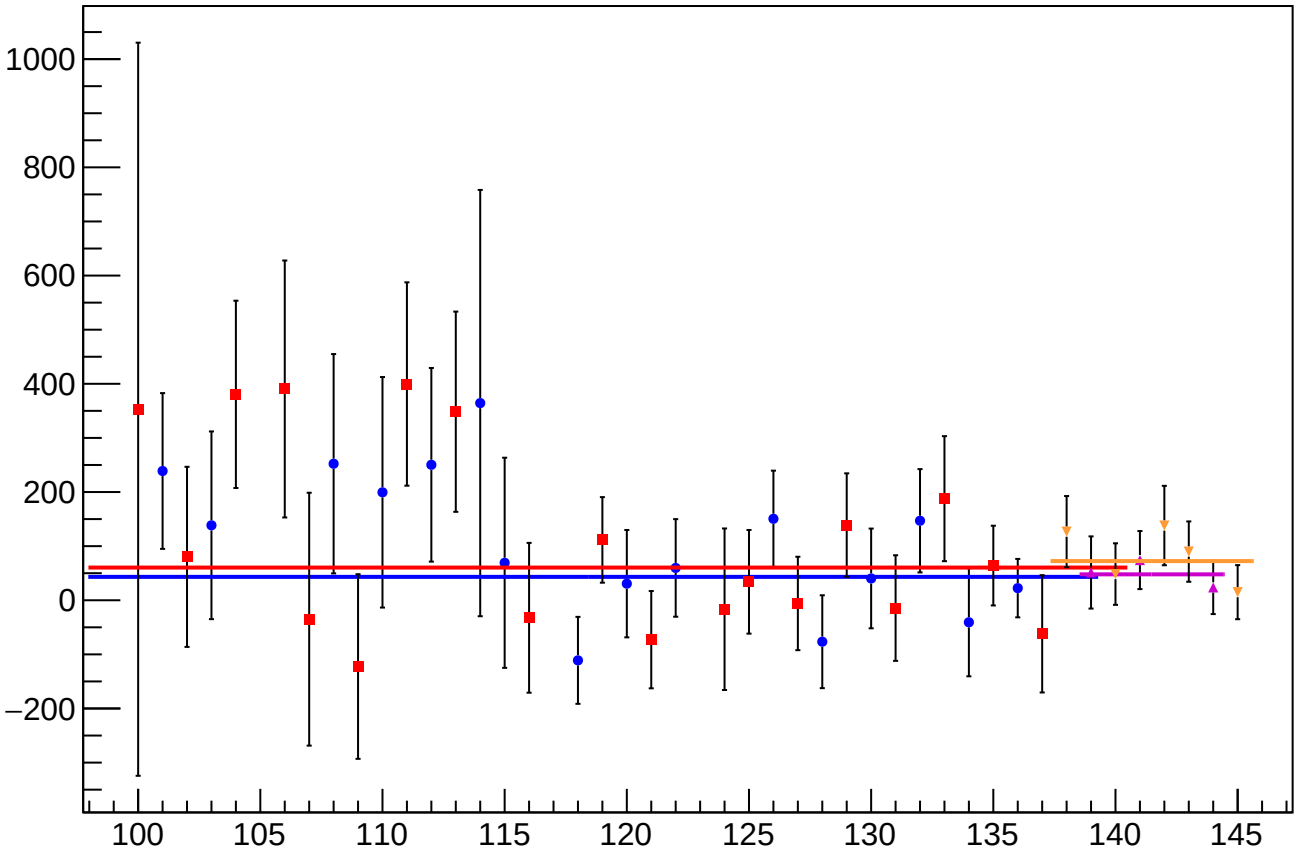
Left: 249.036+/-0.072 $\chi^2$/NDF: 608773.8/7

Right: 614.121+/-0.123 $\chi^2$/NDF: 4174772.7/34

In: 358.789+/-0.094 $\chi^2$/NDF:5070652.0/18

Out: 330.593+/-0.083 $\chi^2$/NDF:6199495.4/23

All: 342.892+/-0.062 $\chi^2$/NDF: 11320353.6/42




Right In: 43.239+/-25.781 $\chi^2$/NDF: 15.0/15

Left Out: 72.389+/-26.274 $\chi^2$/NDF:3.1/4

Right Out: 60.432+/-26.895 $\chi^2$/NDF: 20.3/18

Left In: 47.891+/-31.881 $\chi^2$/NDF:0.5/2

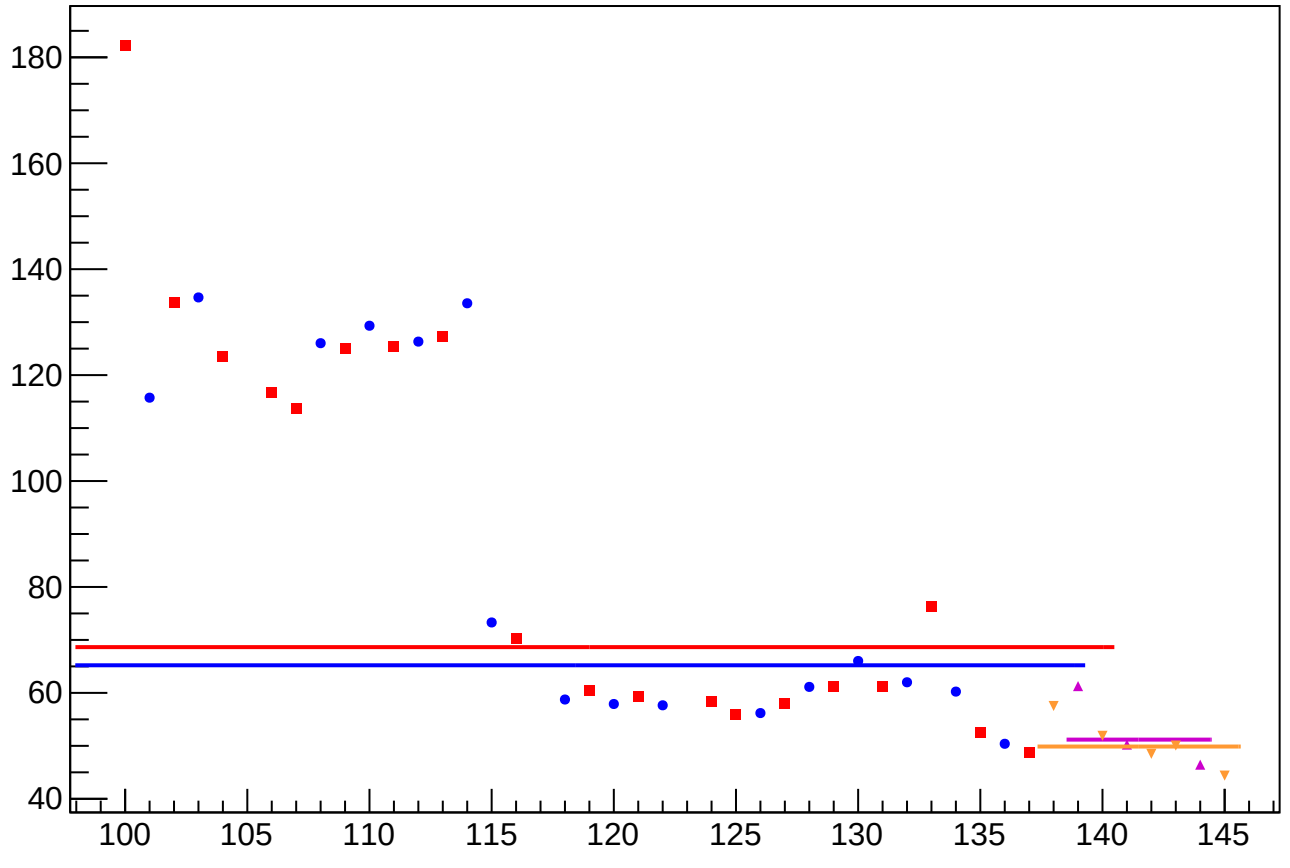
Left: 62.480+/-20.276 $\chi^2$/NDF: 3.9/7

Right: 51.472+/-18.611 $\chi^2$/NDF: 35.5/34

In: 45.078+/-20.046 $\chi^2$/NDF:15.4/18

Out: 66.550+/-18.794 $\chi^2$/NDF:23.5/23

All: 56.506+/-13.711 $\chi^2$/NDF: 39.5/42




Right In: 65.212+/-0.018 $\chi^2$/NDF: 1446506.9/15

Left Out: 49.871+/-0.019 $\chi^2$/NDF:54486.0/4

Right Out: 68.642+/-0.019 $\chi^2$/NDF: 1637558.1/18

Left In: 51.177+/-0.023 $\chi^2$/NDF:64895.3/2

Left: 50.399+/-0.014 $\chi^2$/NDF: 121382.3/7

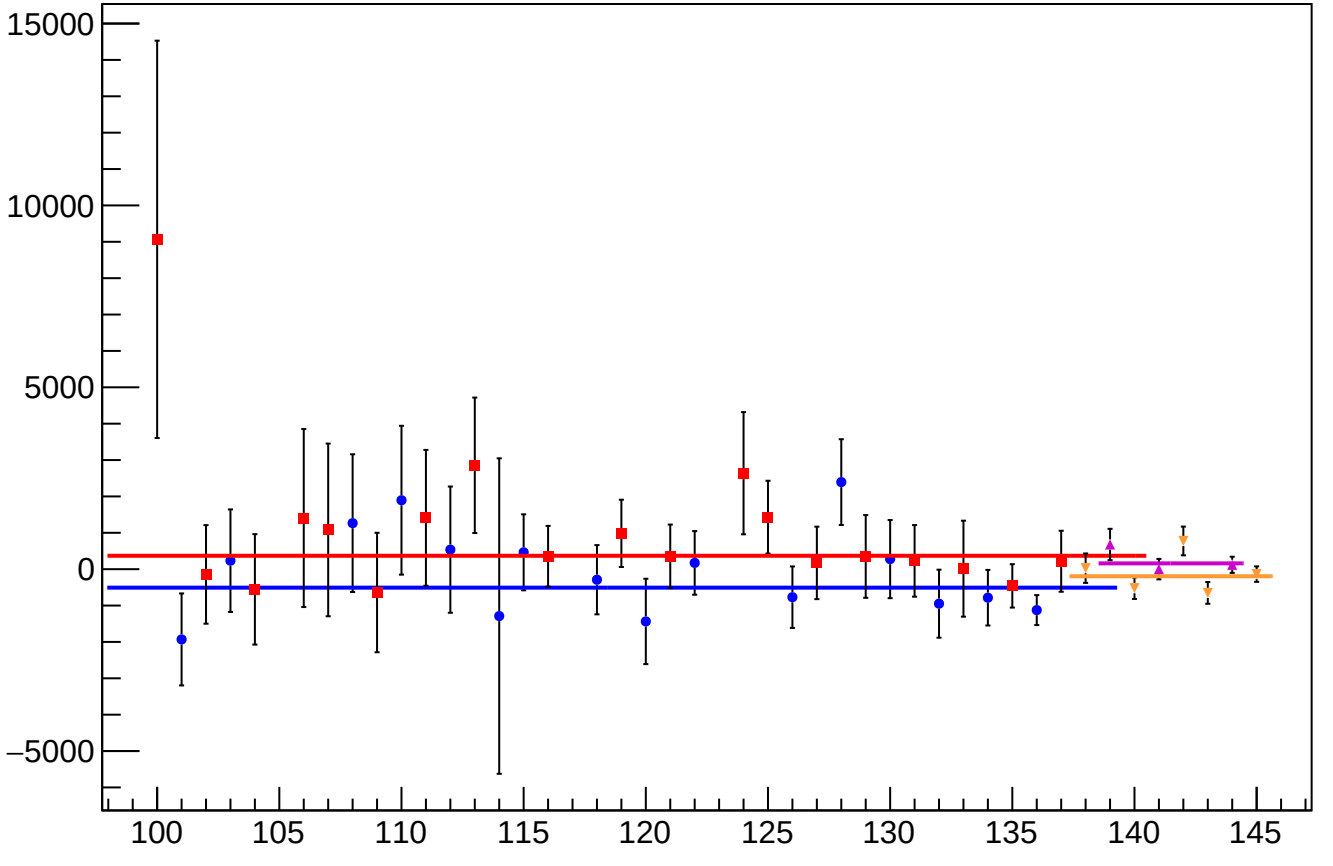
Right: 66.855+/-0.013 $\chi^2$/NDF: 3101012.7/34

In: 59.663+/-0.014 $\chi^2$/NDF:1745760.2/18

Out: 59.037+/-0.013 $\chi^2$/NDF:2190549.6/23

All: 59.330+/-0.010 $\chi^2$/NDF: 3937348.8/42

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: -194.541+/-132.229 $\chi^2$/NDF:10.0/4

Right Out: 368.334+/-256.534 $\chi^2$/NDF: 11.3/18

Left In: 159.410+/-161.812 $\chi^2$/NDF:1.8/2

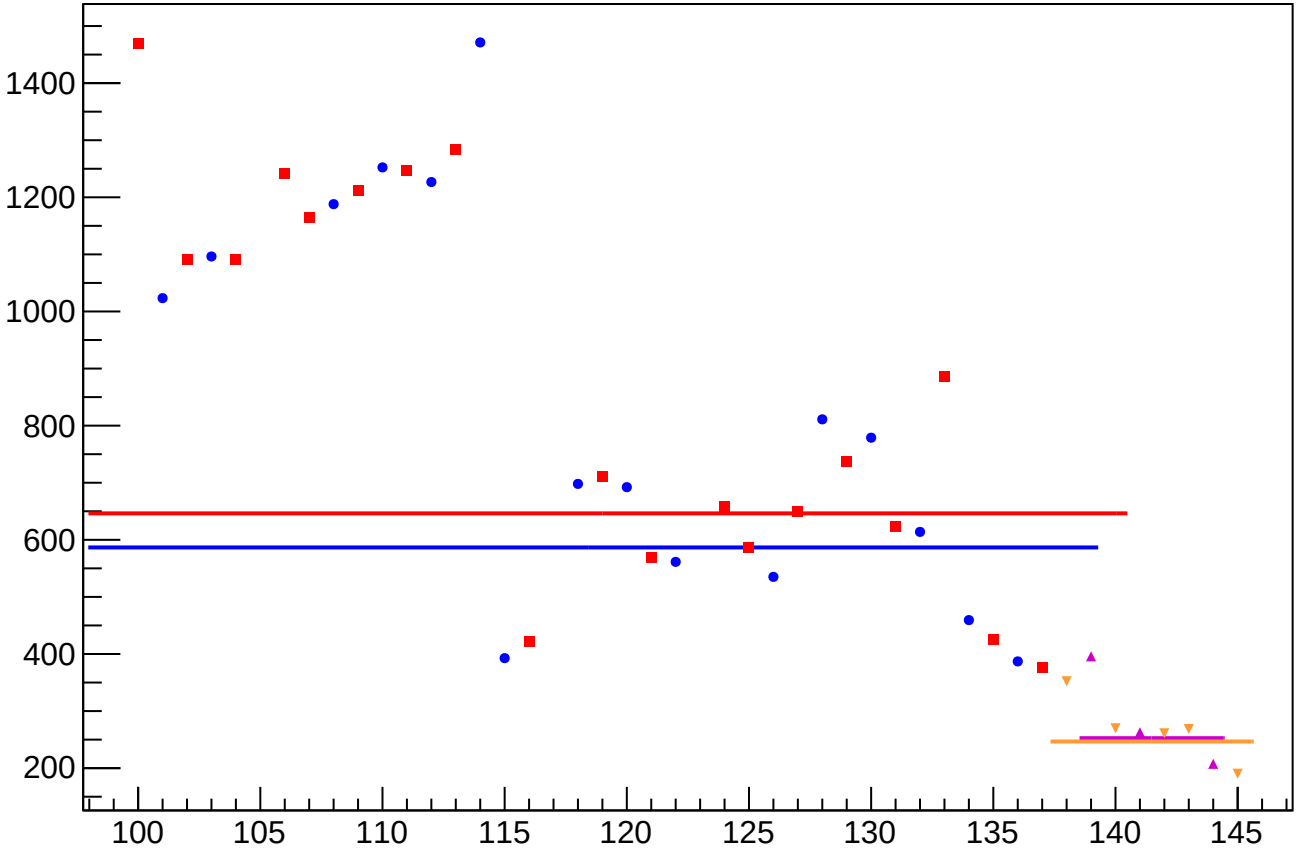
Left: -52.819+/-102.390 $\chi^2$/NDF: 14.7/7

Right: -104.517+/-174.059 $\chi^2$/NDF: 33.2/34

In: -52.827+/-133.626 $\chi^2$/NDF:22.8/18

Out: -76.386+/-117.534 $\chi^2$/NDF:25.1/23

All: -66.110+/-88.253 $\chi^2$/NDF: 47.9/42




Right In: 586.645+/-0.168 $\chi^2$/NDF: 2053169.7/15

Left Out: 246.707+/-0.094 $\chi^2$/NDF:301792.3/4

Right Out: 646.328+/-0.181 $\chi^2$/NDF: 2063185.3/18

Left In: 252.524+/-0.114 $\chi^2$/NDF:305431.6/2

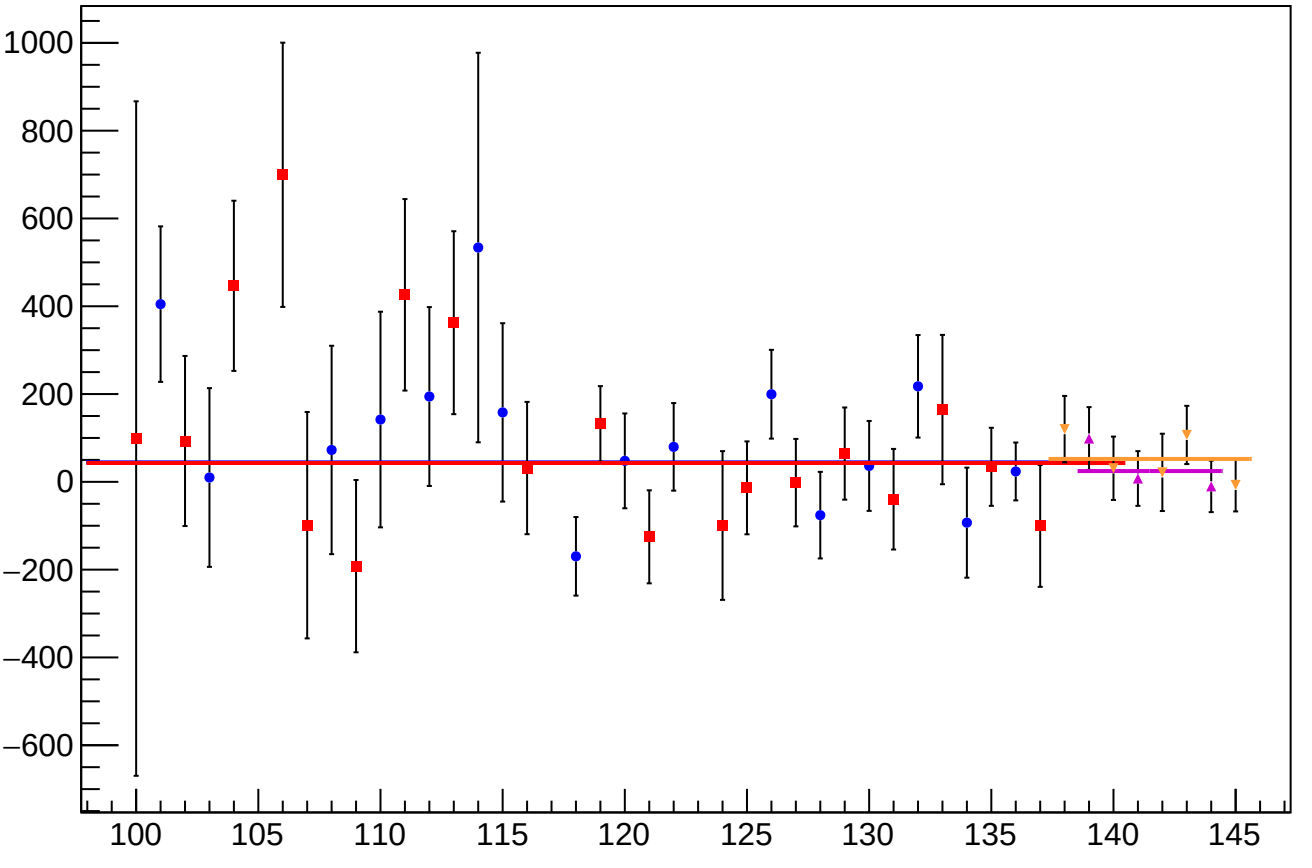
Left: 249.036+/-0.072 $\chi^2$/NDF: 608773.8/7

Right: 614.121+/-0.123 $\chi^2$/NDF: 4174772.7/34

In: 358.789+/-0.094 $\chi^2$/NDF:5070652.0/18

Out: 330.593+/-0.083 $\chi^2$/NDF:6199495.4/23

All: 342.892+/-0.062 $\chi^2$/NDF: 11320353.6/42




Right In: 44.387+/-29.909 $\chi^2$/NDF: 19.6/15

Left Out: 52.217+/-31.658 $\chi^2$/NDF:2.7/4

Right Out: 42.901+/-31.248 $\chi^2$/NDF: 23.3/18

Left In: 24.607+/-36.675 $\chi^2$/NDF:1.5/2

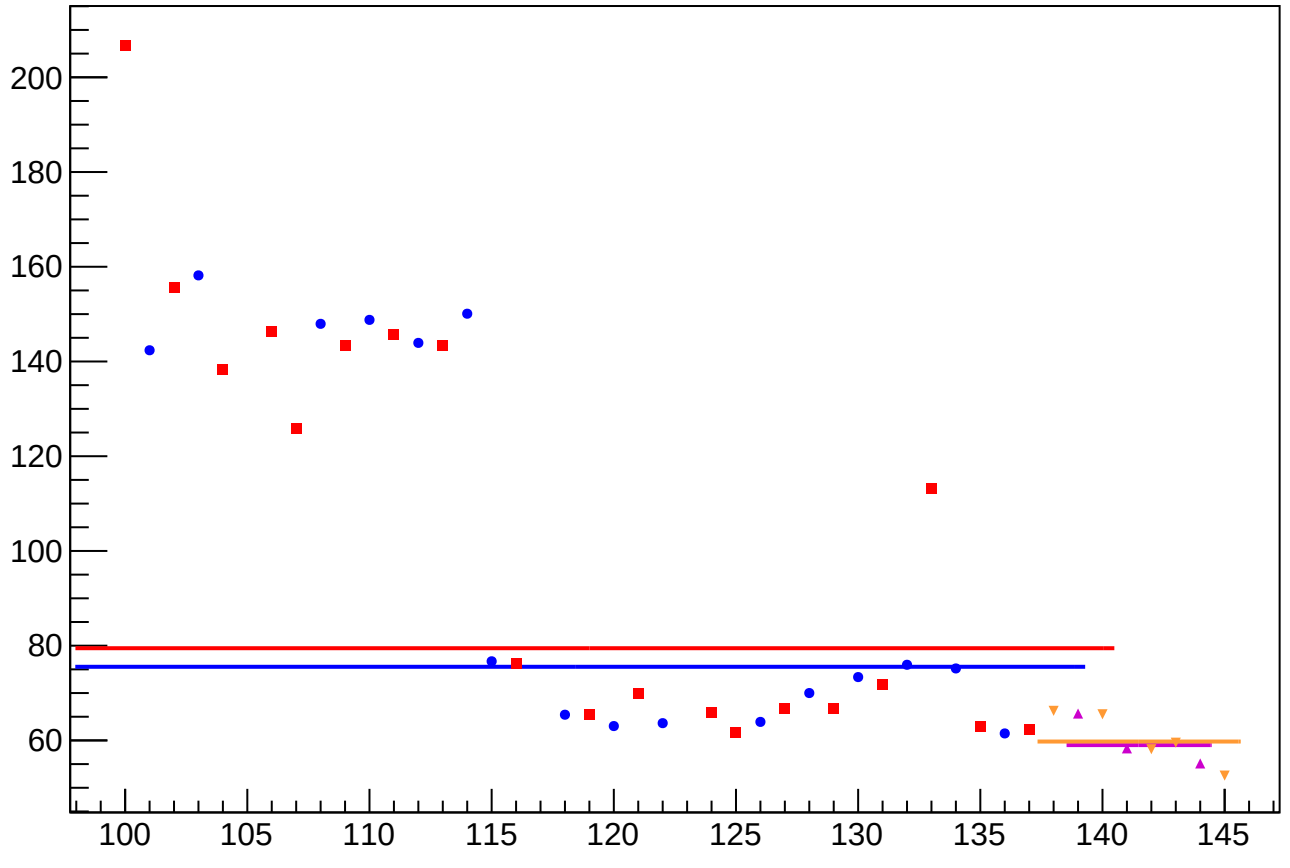
Left: 40.428+/-23.965 $\chi^2$/NDF: 4.5/7

Right: 43.677+/-21.607 $\chi^2$/NDF: 42.9/34

In: 36.487+/-23.178 $\chi^2$/NDF:21.3/18

Out: 47.498+/-22.239 $\chi^2$/NDF:26.0/23

All: 42.220+/-16.047 $\chi^2$/NDF: 47.4/42




Right In: 75.544+/-0.021 $\chi^2$/NDF: 1465550.9/15

Left Out: 59.763+/-0.022 $\chi^2$/NDF:56493.1/4

Right Out: 79.465+/-0.022 $\chi^2$/NDF: 1683634.3/18

Left In: 59.012+/-0.026 $\chi^2$/NDF:26301.3/2

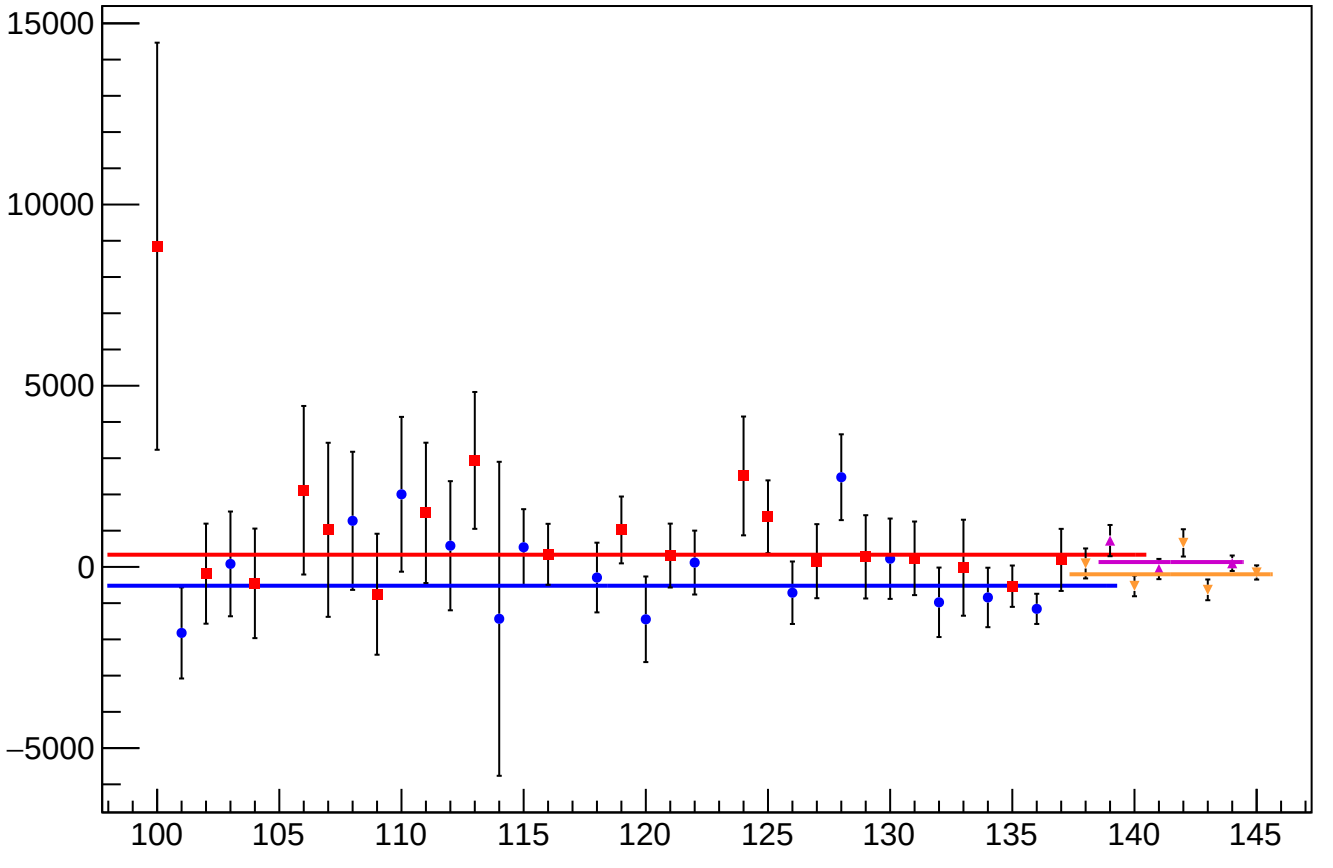
Left: 59.442+/-0.017 $\chi^2$/NDF: 83275.6/7

Right: 77.419+/-0.015 $\chi^2$/NDF: 3165620.3/34

In: 68.941+/-0.016 $\chi^2$/NDF:1735941.3/18

Out: 69.743+/-0.016 $\chi^2$/NDF:2132489.0/23

All: 69.358+/-0.011 $\chi^2$/NDF: 3869676.0/42




Right In: -519.250+/-241.317 $\chi^2$/NDF: 15.8/15

Left Out: -203.221+/-125.747 $\chi^2$/NDF:9.4/4

Right Out: 336.731+/-256.618 $\chi^2$/NDF: 11.9/18

Left In: 134.033+/-157.754 $\chi^2$/NDF:2.4/2

Left: -72.191+/-98.331 $\chi^2$/NDF: 14.6/7

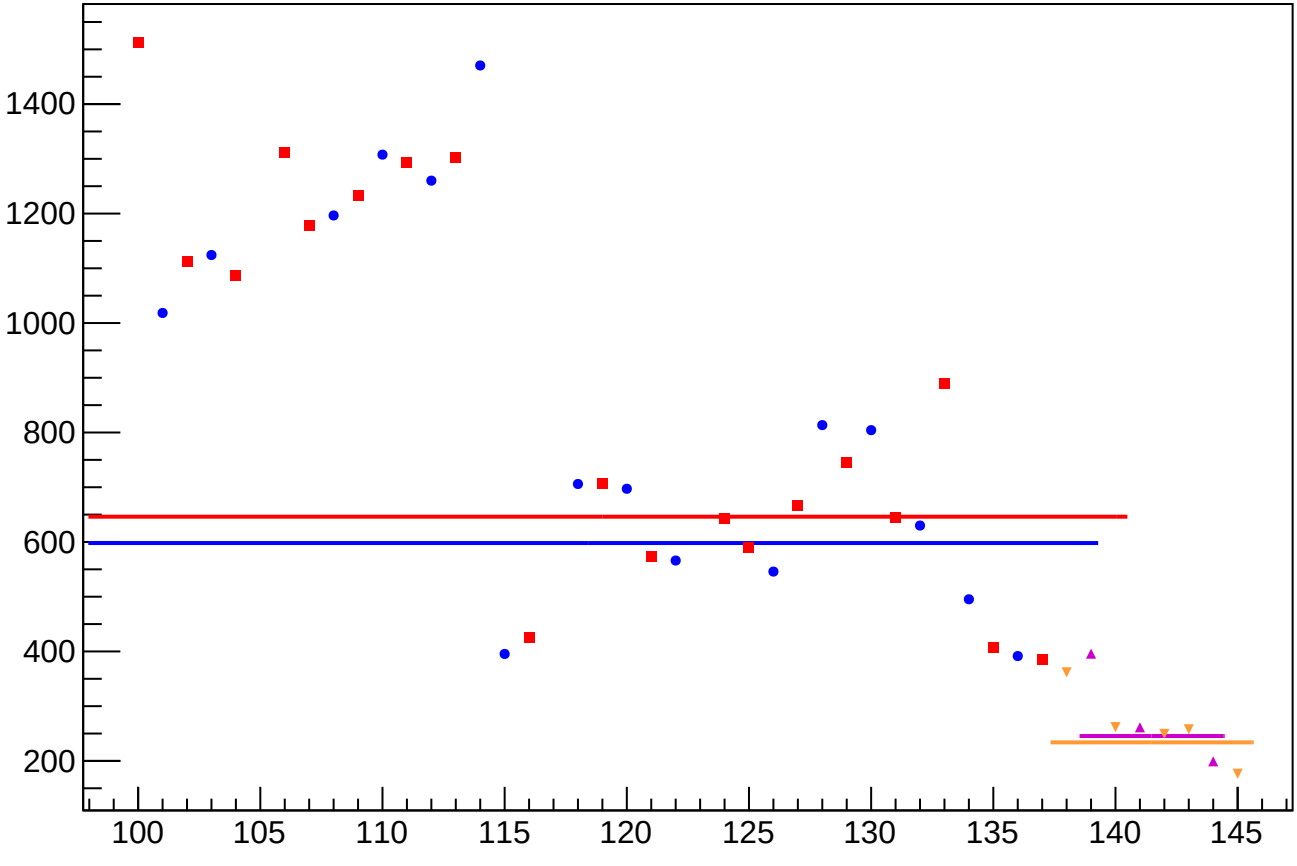
Right: -117.538+/-175.797 $\chi^2$/NDF: 33.6/34

In: -61.562+/-132.043 $\chi^2$/NDF:23.3/18

Out: -98.674+/-112.919 $\chi^2$/NDF:24.9/23

All: -82.997+/-85.818 $\chi^2$/NDF: 48.2/42

asym_sam_1526_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 598.044+/-0.171 $\chi^2$/NDF: 2047825.1/15

Left Out: 233.868+/-0.089 $\chi^2$/NDF:397575.4/4

Right Out: 646.190+/-0.181 $\chi^2$/NDF: 2205437.4/18

Left In: 245.458+/-0.112 $\chi^2$/NDF:344210.4/2

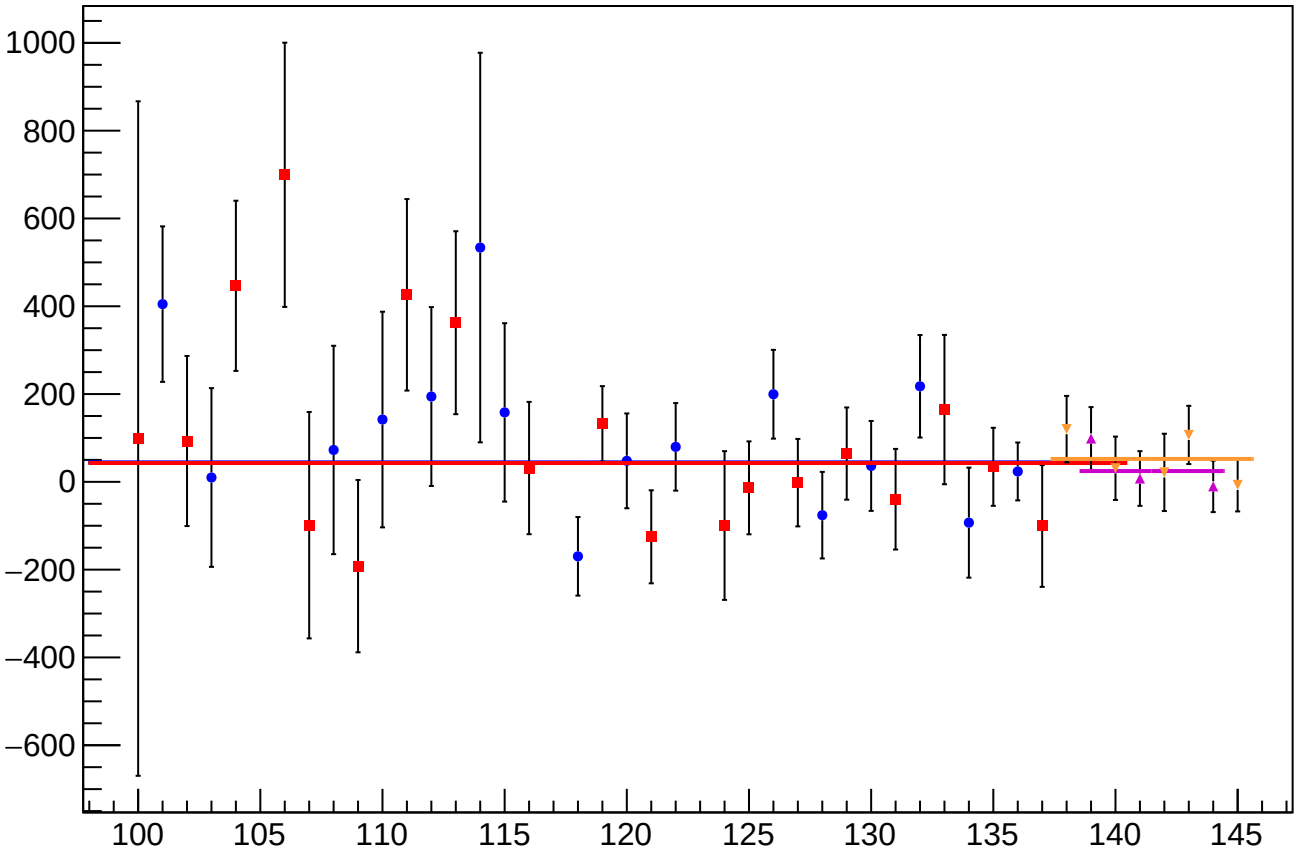
Left: 238.371+/-0.070 $\chi^2$/NDF: 748386.7/7

Right: 620.639+/-0.124 $\chi^2$/NDF: 4290624.3/34

In: 351.024+/-0.093 $\chi^2$/NDF:5383291.5/18

Out: 313.704+/-0.080 $\chi^2$/NDF:6766590.2/23

All: 329.468+/-0.061 $\chi^2$/NDF: 12242161.0/42




Right In: 44.389+/-29.908 $\chi^2$/NDF: 19.6/15

Left Out: 52.216+/-31.658 $\chi^2$/NDF:2.7/4

Right Out: 42.900+/-31.248 $\chi^2$/NDF: 23.3/18

Left In: 24.607+/-36.675 $\chi^2$/NDF:1.5/2

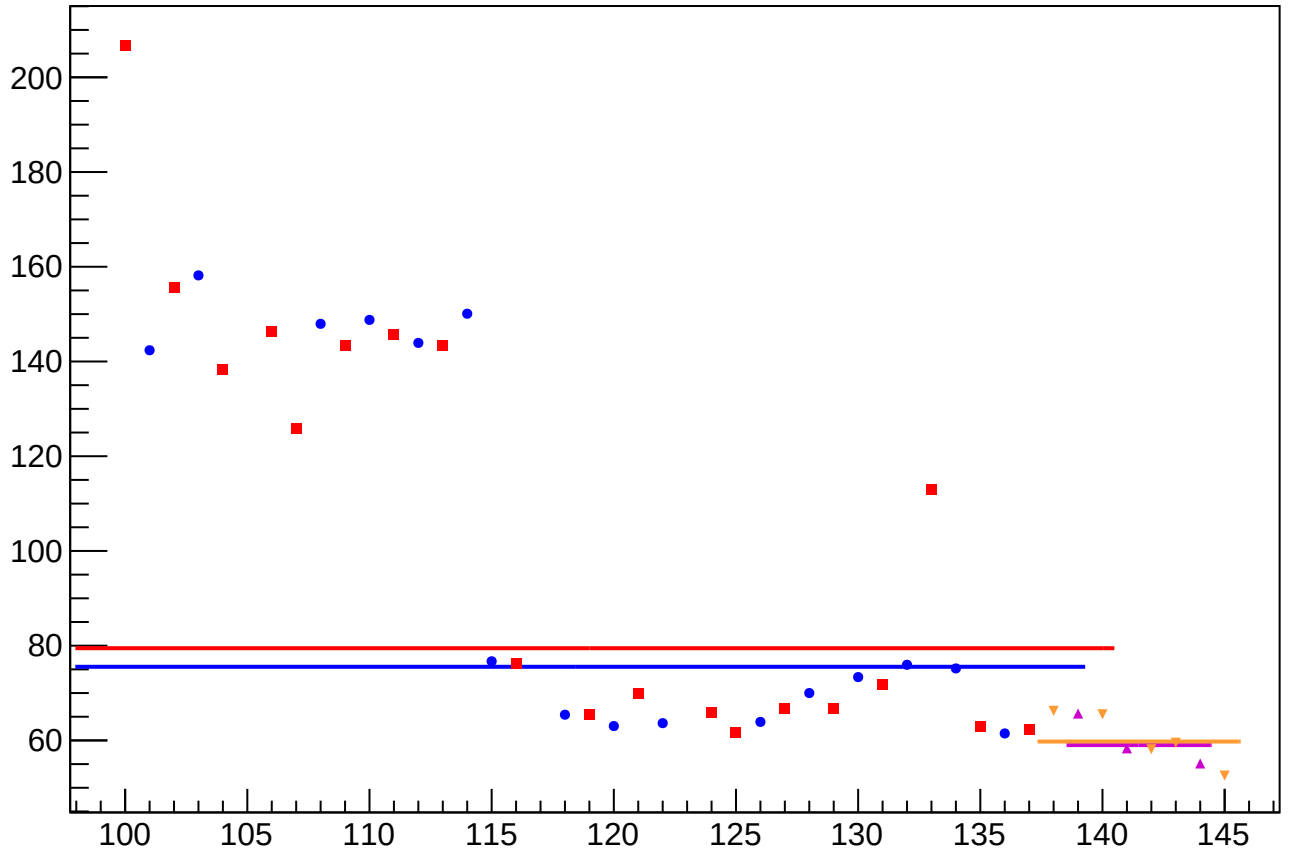
Left: 40.427+/-23.965 $\chi^2$/NDF: 4.5/7

Right: 43.677+/-21.607 $\chi^2$/NDF: 42.9/34

In: 36.488+/-23.178 $\chi^2$/NDF:21.3/18

Out: 47.497+/-22.239 $\chi^2$/NDF:26.0/23

All: 42.220+/-16.047 $\chi^2$/NDF: 47.4/42




Right In: 75.544+/-0.021 $\chi^2$/NDF: 1465535.8/15

Left Out: 59.763+/-0.022 $\chi^2$/NDF:56488.0/4

Right Out: 79.465+/-0.022 $\chi^2$/NDF: 1683627.3/18

Left In: 59.012+/-0.026 $\chi^2$/NDF:26300.8/2

Left: 59.442+/-0.017 $\chi^2$/NDF: 83269.9/7

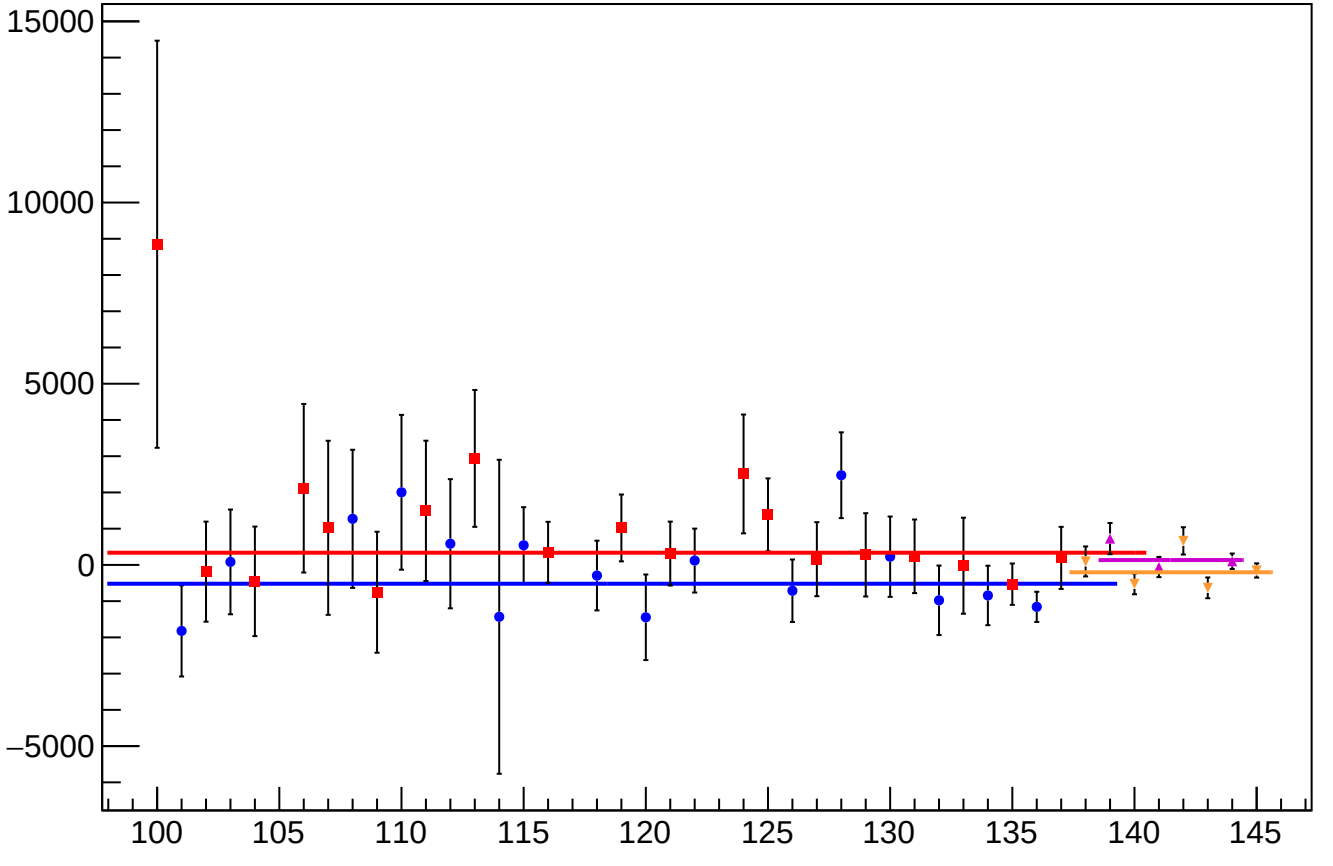
Right: 77.419+/-0.015 $\chi^2$/NDF: 3165598.5/34

In: 68.941+/-0.016 $\chi^2$/NDF:1735909.9/18

Out: 69.743+/-0.016 $\chi^2$/NDF:2132457.3/23

All: 69.358+/-0.011 $\chi^2$/NDF: 3869613.1/42

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: -203.223+/-125.747 $\chi^2$/NDF:9.4/4

Right Out: 336.731+/-256.617 $\chi^2$/NDF: 11.9/18

Left In: 134.034+/-157.754 $\chi^2$/NDF:2.4/2

Left: -72.192+/-98.330 $\chi^2$/NDF: 14.6/7

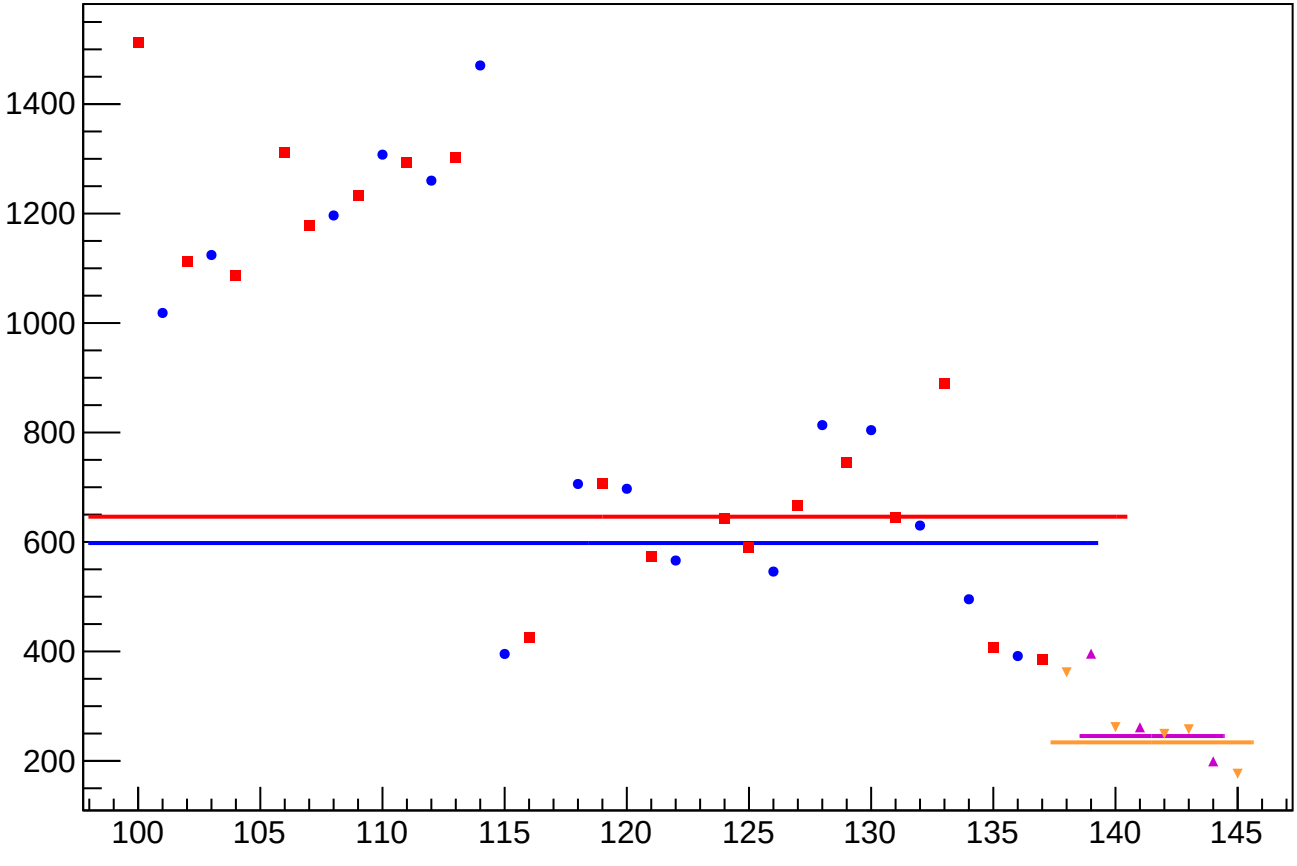
Right: -117.537+/-175.797 $\chi^2$/NDF: 33.6/34

In: -61.561+/-132.043 $\chi^2$/NDF:23.3/18

Out: -98.675+/-112.919 $\chi^2$/NDF:24.9/23

All: -82.998+/-85.818 $\chi^2$/NDF: 48.2/42

asym_sam_1526_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 598.044+/-0.171 $\chi^2$/NDF: 2047806.5/15

Left Out: 233.868+/-0.089 $\chi^2$/NDF:397576.3/4

Right Out: 646.190+/-0.181 $\chi^2$/NDF: 2205421.4/18

Left In: 245.458+/-0.112 $\chi^2$/NDF:344207.6/2

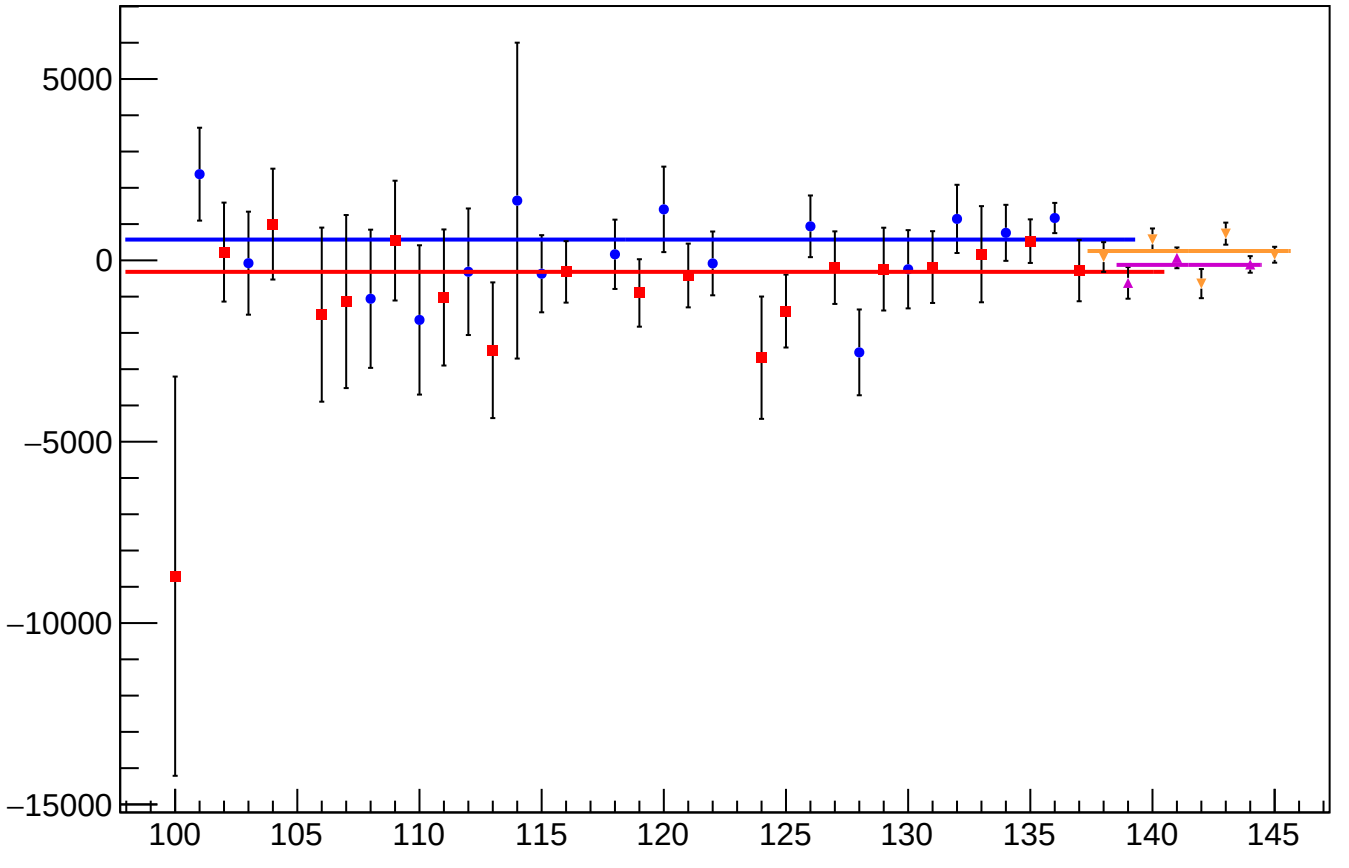
Left: 238.371+/-0.070 $\chi^2$/NDF: 748385.0/7

Right: 620.638+/-0.124 $\chi^2$/NDF: 4290589.9/34

In: 351.023+/-0.093 $\chi^2$/NDF:5383278.4/18

Out: 313.703+/-0.080 $\chi^2$/NDF:6766589.5/23

All: 329.467+/-0.061 $\chi^2$/NDF: 12242148.3/42




Right In: 573.374+/-238.921 $\chi^2$/NDF: 16.6/15

Left Out: 257.964+/-135.060 $\chi^2$/NDF:9.0/4

Right Out: -316.830+/-258.239 $\chi^2$/NDF: 11.0/18

Left In: -124.576+/-165.247 $\chi^2$/NDF:1.8/2

Left: 104.763+/-104.575 $\chi^2$/NDF: 14.0/7

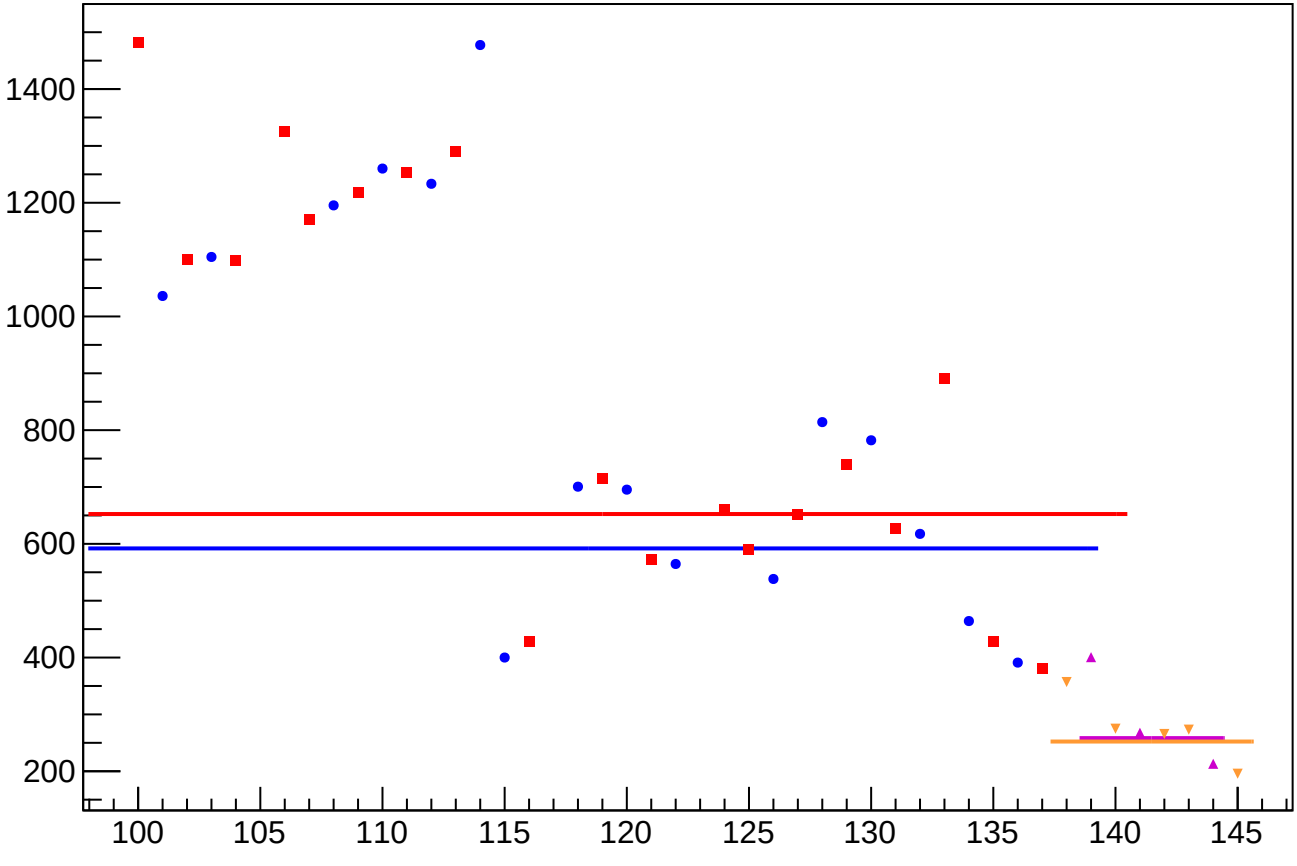
Right: 162.809+/-175.375 $\chi^2$/NDF: 34.0/34

In: 101.264+/-135.908 $\chi^2$/NDF:24.1/18

Out: 134.508+/-119.680 $\chi^2$/NDF:23.9/23

All: 119.989+/-89.819 $\chi^2$/NDF: 48.0/42

# asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 591.974+/-0.169 $\chi^2$/NDF: 2035700.6/15

Left Out: 252.268+/-0.096 $\chi^2$/NDF:286858.7/4

Right Out: 652.459+/-0.183 $\chi^2$/NDF: 2089983.3/18

Left In: 258.280+/-0.117 $\chi^2$/NDF:293540.4/2

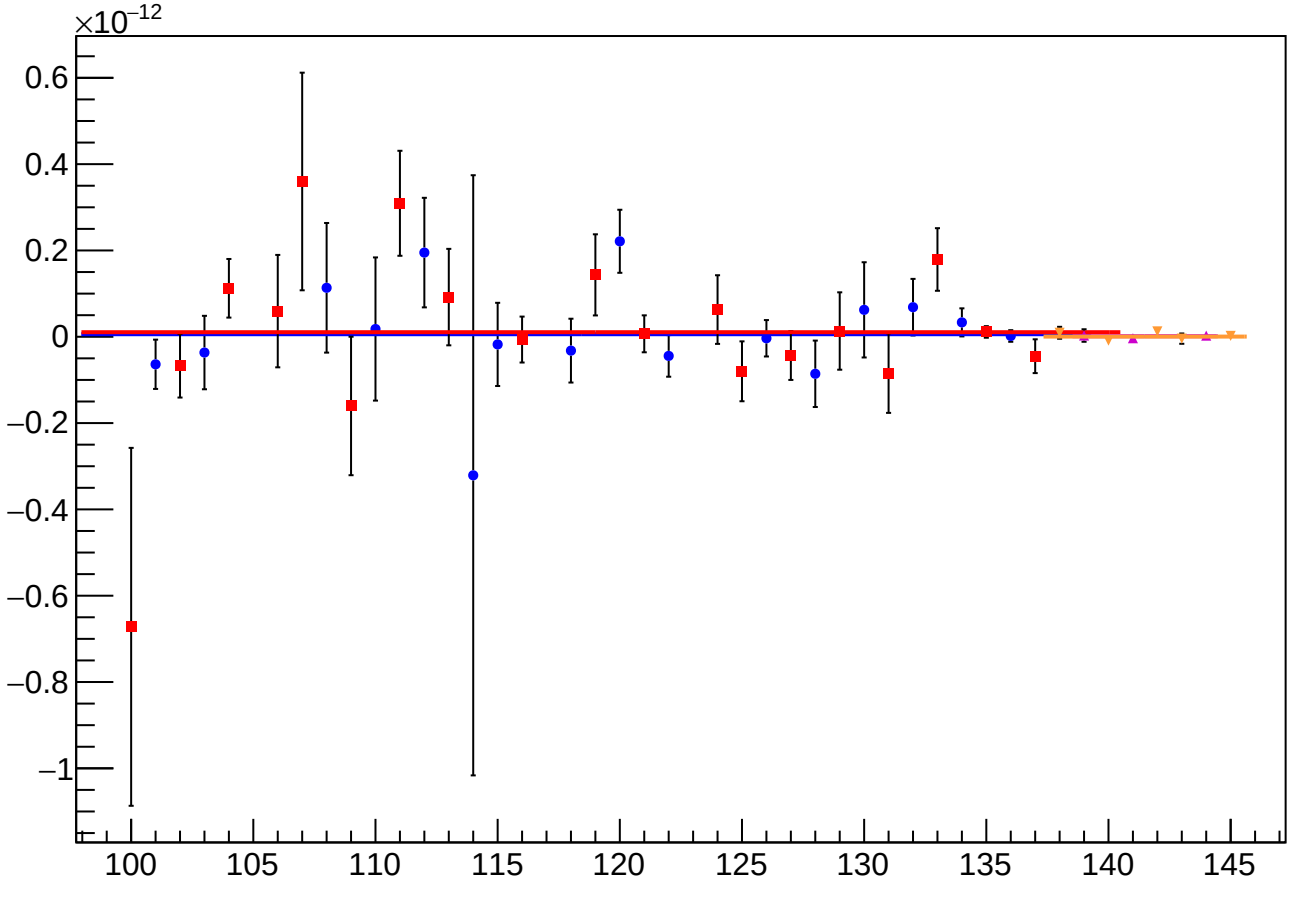
Left: 254.676+/-0.074 $\chi^2$/NDF: 581986.6/7

Right: 619.870+/-0.124 $\chi^2$/NDF: 4184800.0/34

In: 366.256+/-0.096 $\chi^2$/NDF:4968213.5/18

Out: 338.222+/-0.085 $\chi^2$/NDF:6148332.7/23

All: 350.466+/-0.064 $\chi^2$/NDF: 11164476.5/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 29.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.2/2

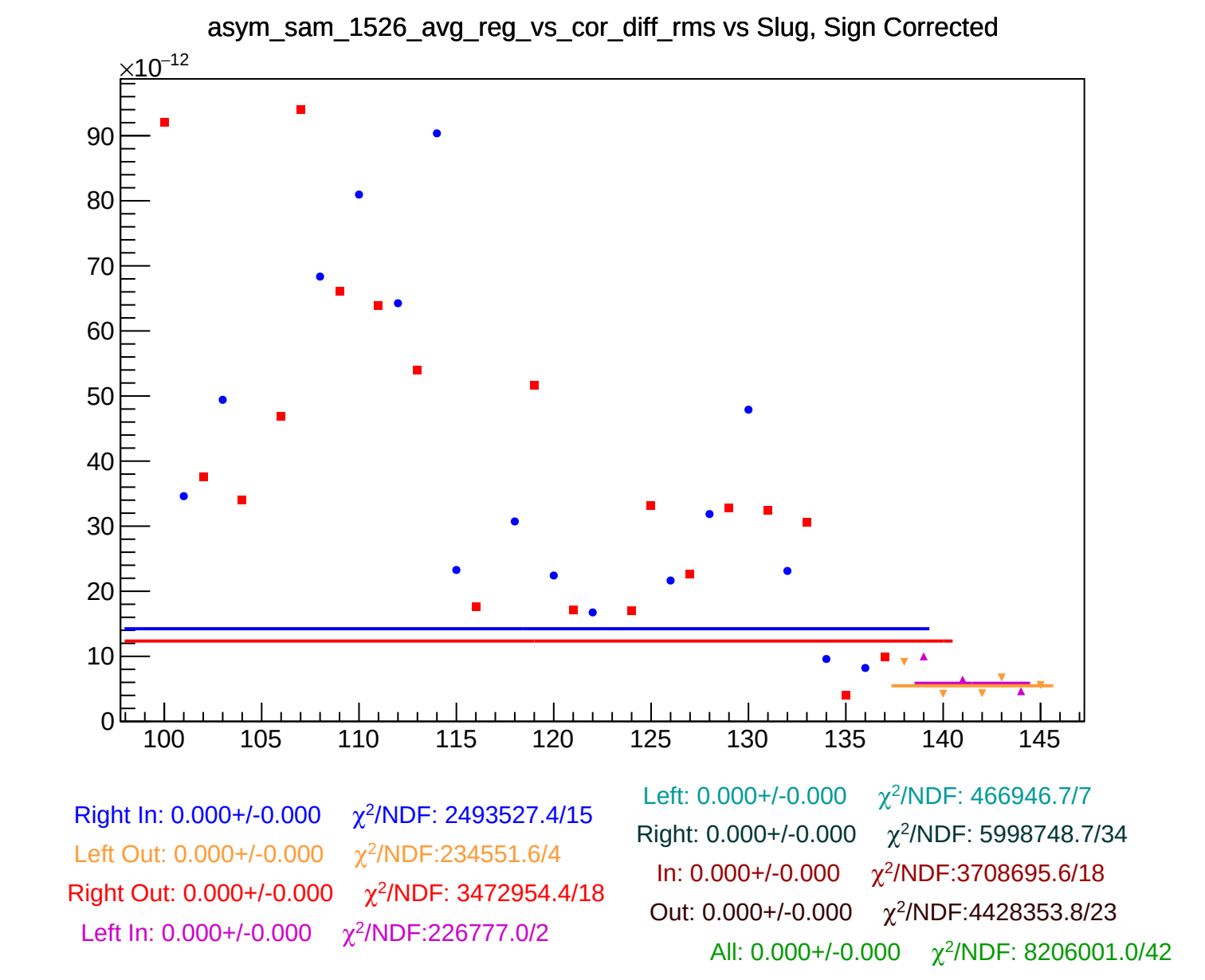
Left: 0.000+/-0.000 $\chi^2$/NDF: 3.4/7

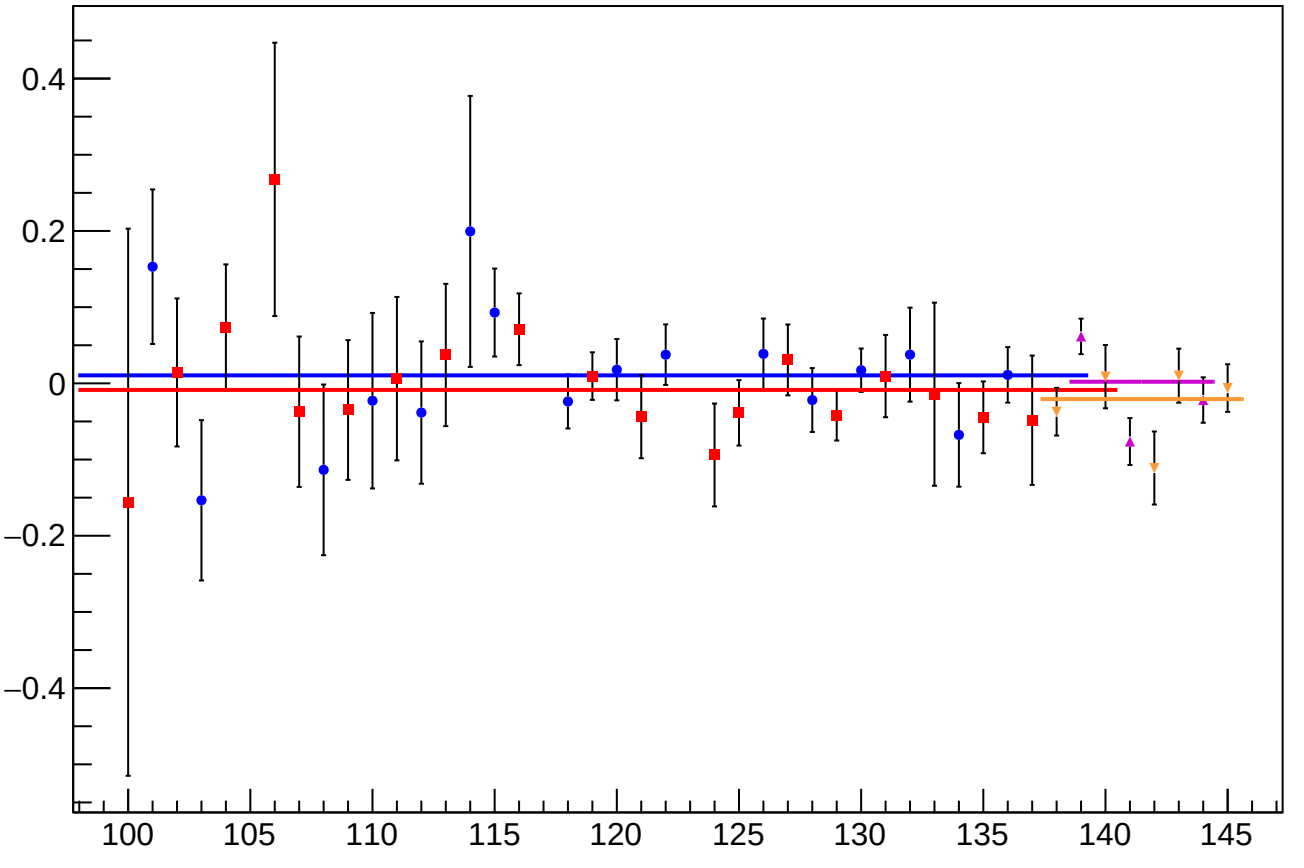
Right: 0.000+/-0.000 $\chi^2$/NDF: 47.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:18.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:33.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 52.1/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2493527.4/15
Left Out: 0.000+/-0.000 χ²/NDF:234551.6/4
Right Out: 0.000+/-0.000 χ²/NDF: 3472954.4/18
Left In: 0.000+/-0.000 χ²/NDF:226777.0/2
Left: 0.000+/-0.000 χ²/NDF: 466946.7/7
Right: 0.000+/-0.000 χ²/NDF: 5998748.7/34
In: 0.000+/-0.000 χ²/NDF:3708695.6/18
Out: 0.000+/-0.000 χ²/NDF:4428353.8/23
All: 0.000+/-0.000 χ²/NDF: 8206001.0/42




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: -0.021+/-0.016 $\chi^2$/NDF:5.3/4

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.002+/-0.016 $\chi^2$/NDF:13.7/2

Left: -0.009+/-0.011 $\chi^2$/NDF: 20.0/7

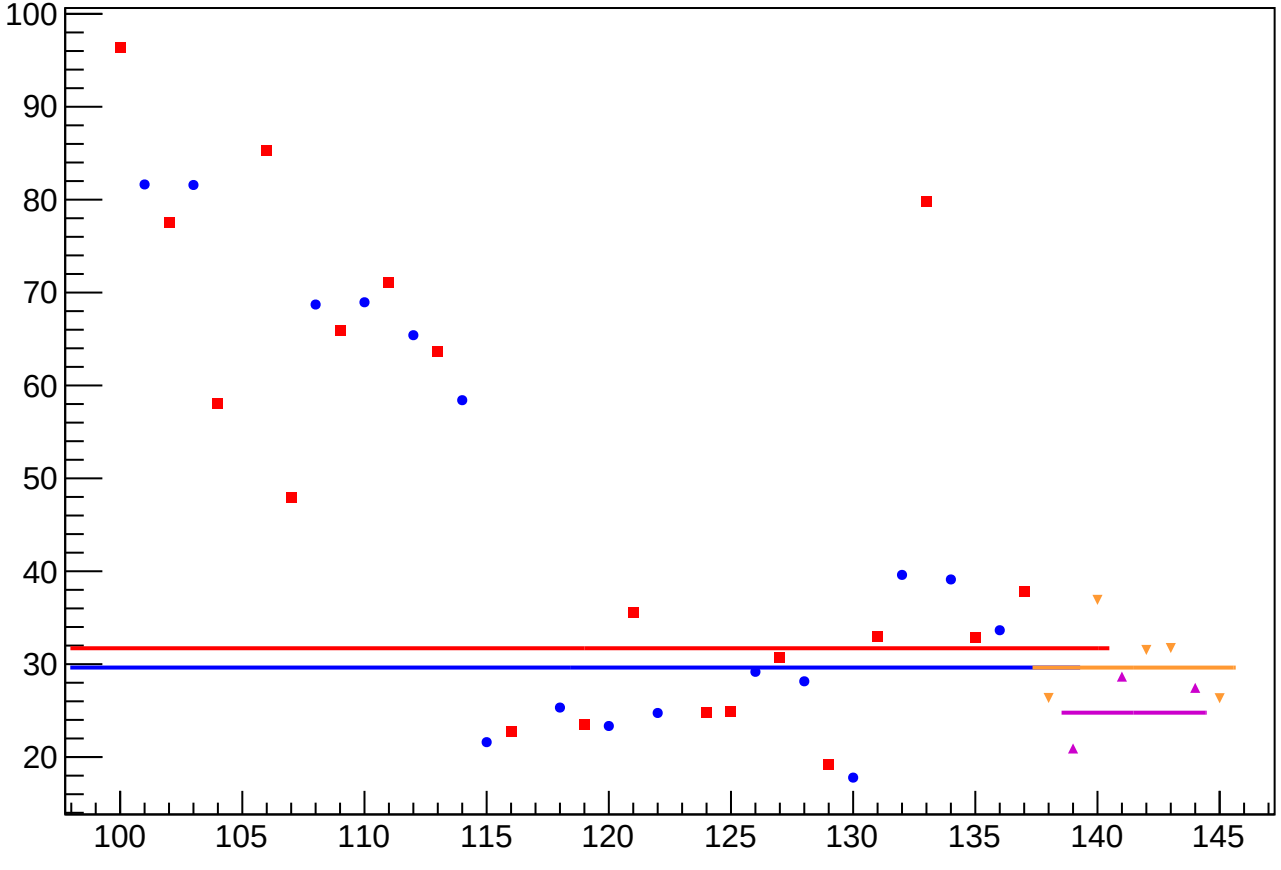
Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.007+/-0.010 $\chi^2$/NDF:27.0/18

Out: -0.013+/-0.010 $\chi^2$/NDF:18.1/23

All: -0.003+/-0.007 $\chi^2$/NDF: 47.2/42

asym_sam_1526_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.635+/-0.009 $\chi^2$/NDF: 2448468.0/15

Left Out: 29.631+/-0.011 $\chi^2$/NDF:115878.2/4

Right Out: 31.712+/-0.009 $\chi^2$/NDF: 2651470.3/18

Left In: 24.777+/-0.011 $\chi^2$/NDF:102702.5/2

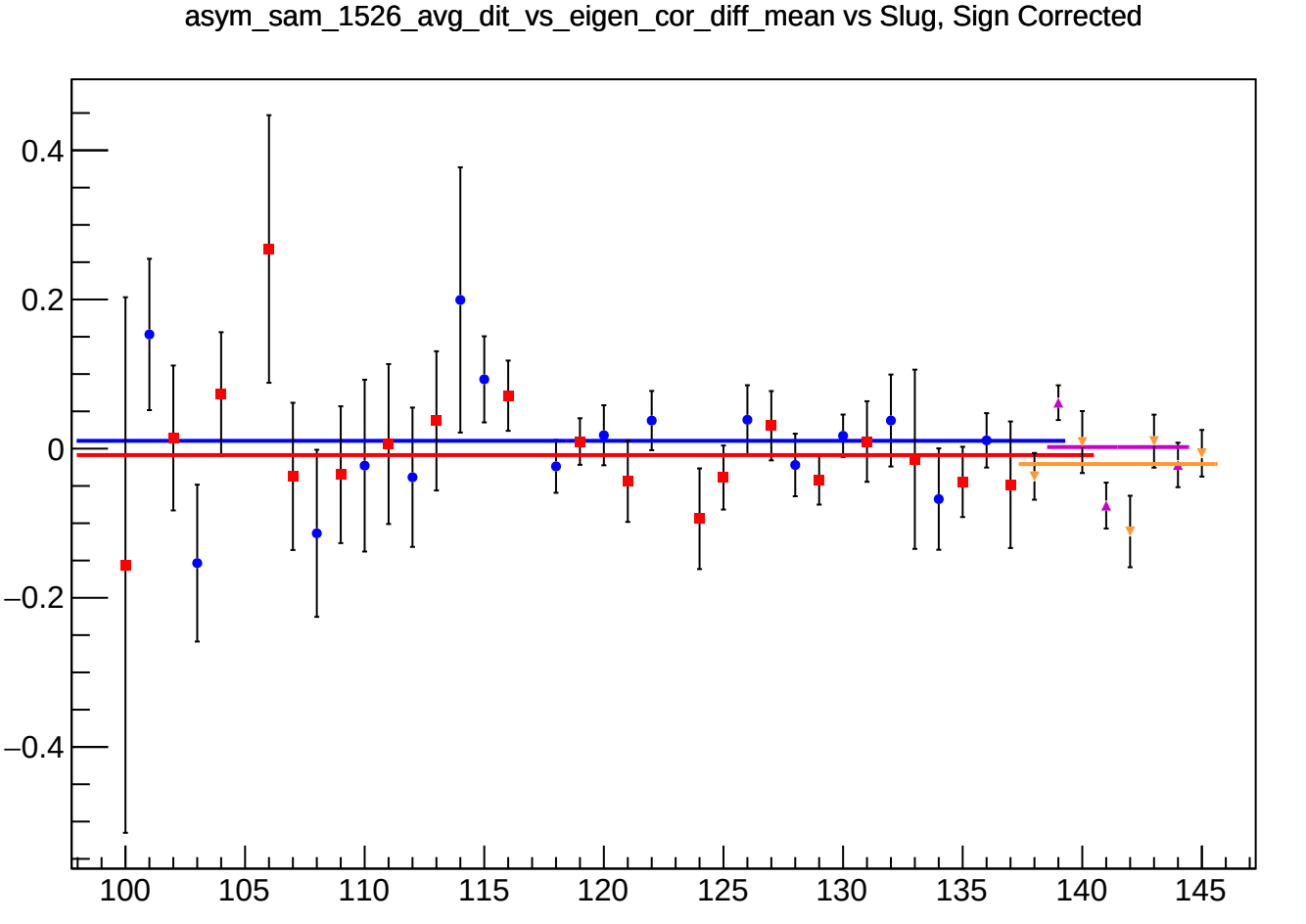
Left: 27.151+/-0.008 $\chi^2$/NDF: 311358.1/7

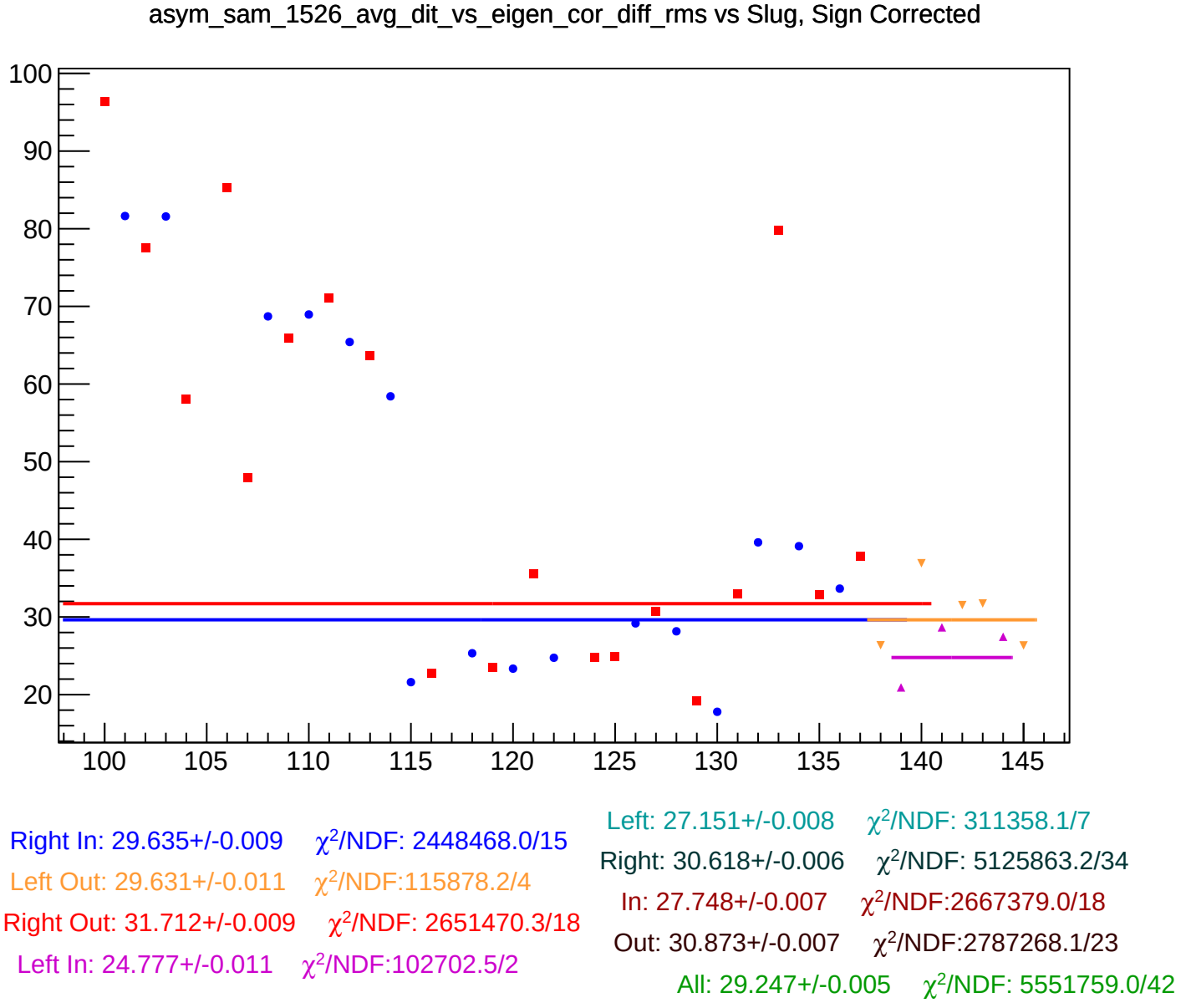
Right: 30.618+/-0.006 $\chi^2$/NDF: 5125863.2/34

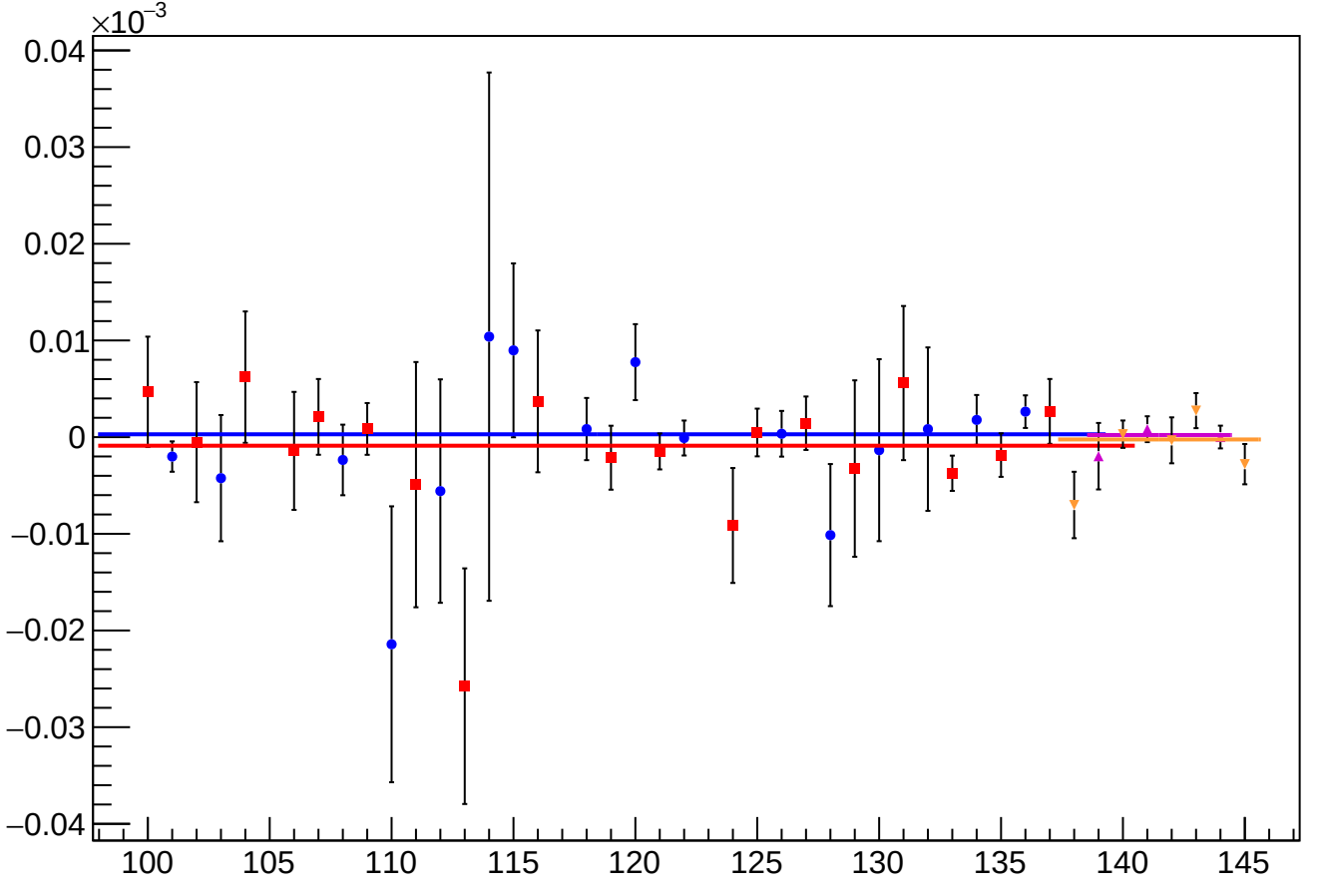
In: 27.748+/-0.007 $\chi^2$/NDF:2667379.0/18

Out: 30.873+/-0.007 $\chi^2$/NDF:2787268.1/23

All: 29.247+/-0.005 $\chi^2$/NDF: 5551759.0/42


asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.4
0.2
0
−0.2
−0.4
100
105
110
115
120
125
130
135
140
145
Right In: 0.010+/-0.013 χ²/NDF: 13.1/15
Left Out: -0.021+/-0.016 χ²/NDF:5.3/4
Right Out: -0.009+/-0.013 χ²/NDF: 12.4/18
Left In: 0.002+/-0.016 χ²/NDF:13.7/2
Left: -0.009+/-0.011 χ²/NDF: 20.0/7
Right: 0.001+/-0.009 χ²/NDF: 26.7/34
In: 0.007+/-0.010 χ²/NDF:27.0/18
Out: -0.013+/-0.010 χ²/NDF:18.1/23
All: -0.003+/-0.007 χ²/NDF: 47.2/42


asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
100
90
80
70
60
50
40
30
20
100
105
110
115
120
125
130
135
140
145
Right In: 29.635+/-0.009 χ²/NDF: 2448468.0/15
Left Out: 29.631+/-0.011 χ²/NDF:115878.2/4
Right Out: 31.712+/-0.009 χ²/NDF: 2651470.3/18
Left In: 24.777+/-0.011 χ²/NDF:102702.5/2
Left: 27.151+/-0.008 χ²/NDF: 311358.1/7
Right: 30.618+/-0.006 χ²/NDF: 5125863.2/34
In: 27.748+/-0.007 χ²/NDF:2667379.0/18
Out: 30.873+/-0.007 χ²/NDF:2787268.1/23
All: 29.247+/-0.005 χ²/NDF: 5551759.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.8/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:8.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.6/2

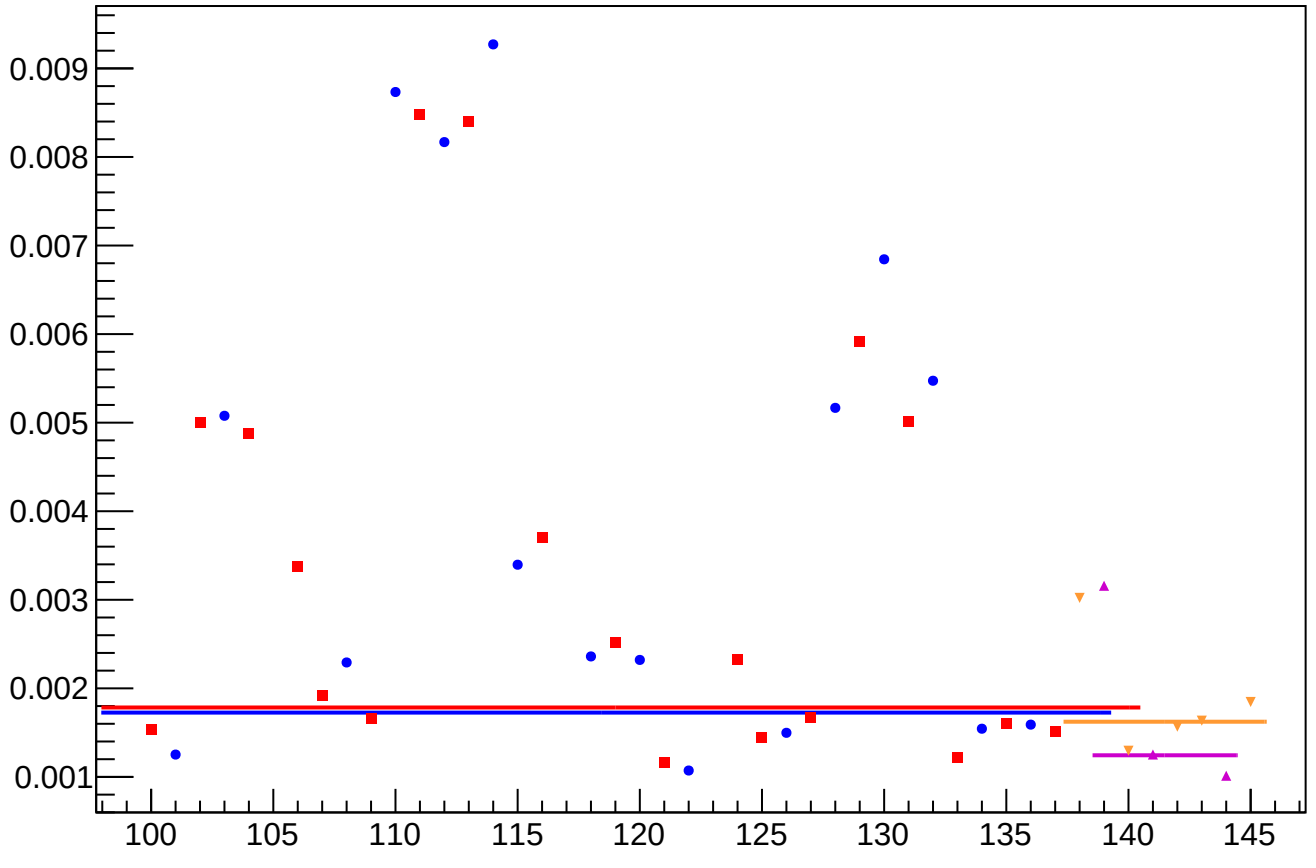
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.0/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 31.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:23.9/23

All: -0.000+/-0.000 $\chi^2$/NDF: 40.5/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3932244.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:462405.9/4

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3718778.6/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:696846.7/2

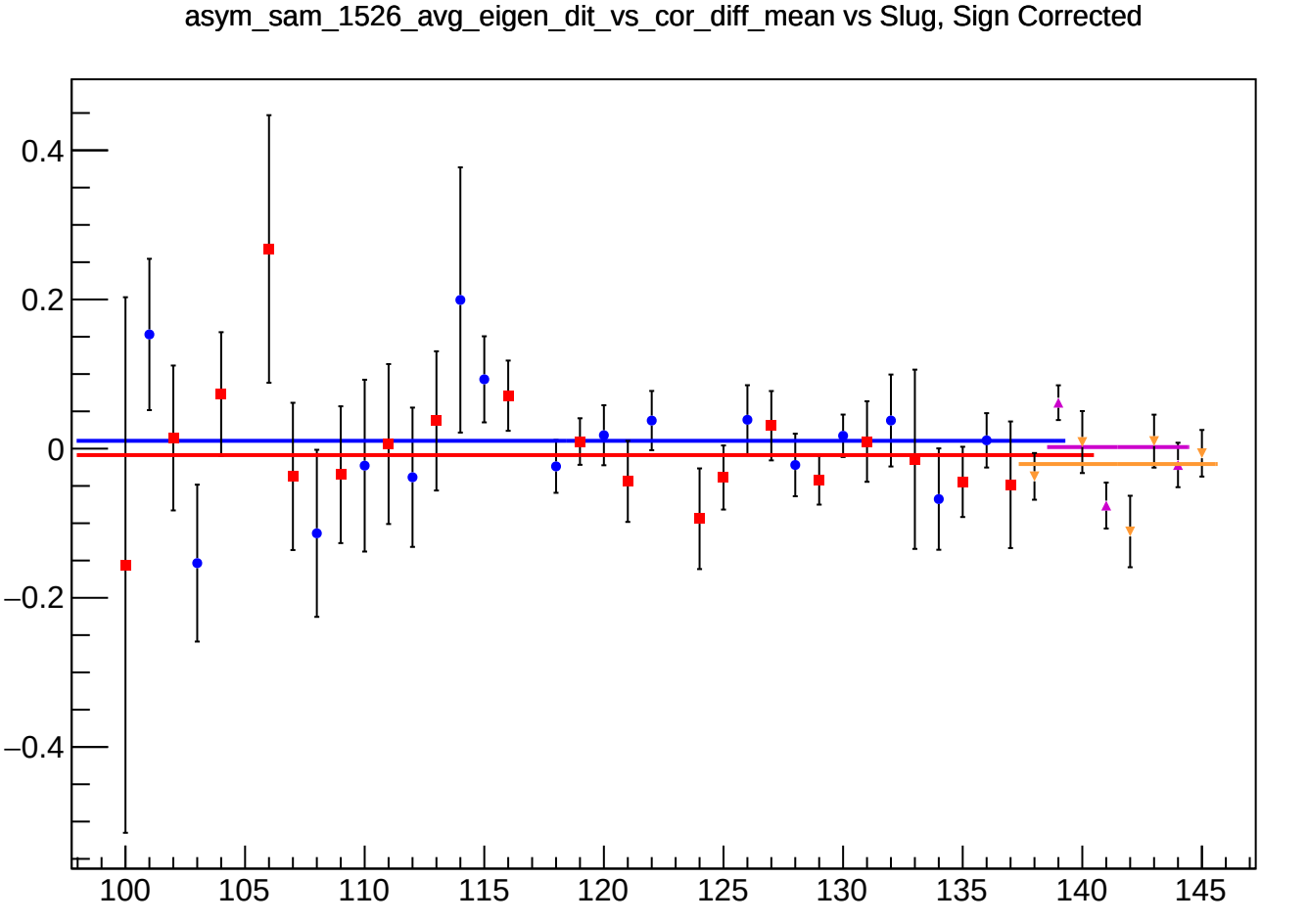
Left: 0.001+/-0.000 $\chi^2$/NDF: 1350321.4/7

Right: 0.002+/-0.000 $\chi^2$/NDF: 7656643.6/34

In: 0.002+/-0.000 $\chi^2$/NDF:4983249.3/18

Out: 0.002+/-0.000 $\chi^2$/NDF:4218713.0/23

All: 0.002+/-0.000 $\chi^2$/NDF: 9323496.9/42




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: -0.021+/-0.016 $\chi^2$/NDF:5.3/4

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.002+/-0.016 $\chi^2$/NDF:13.7/2

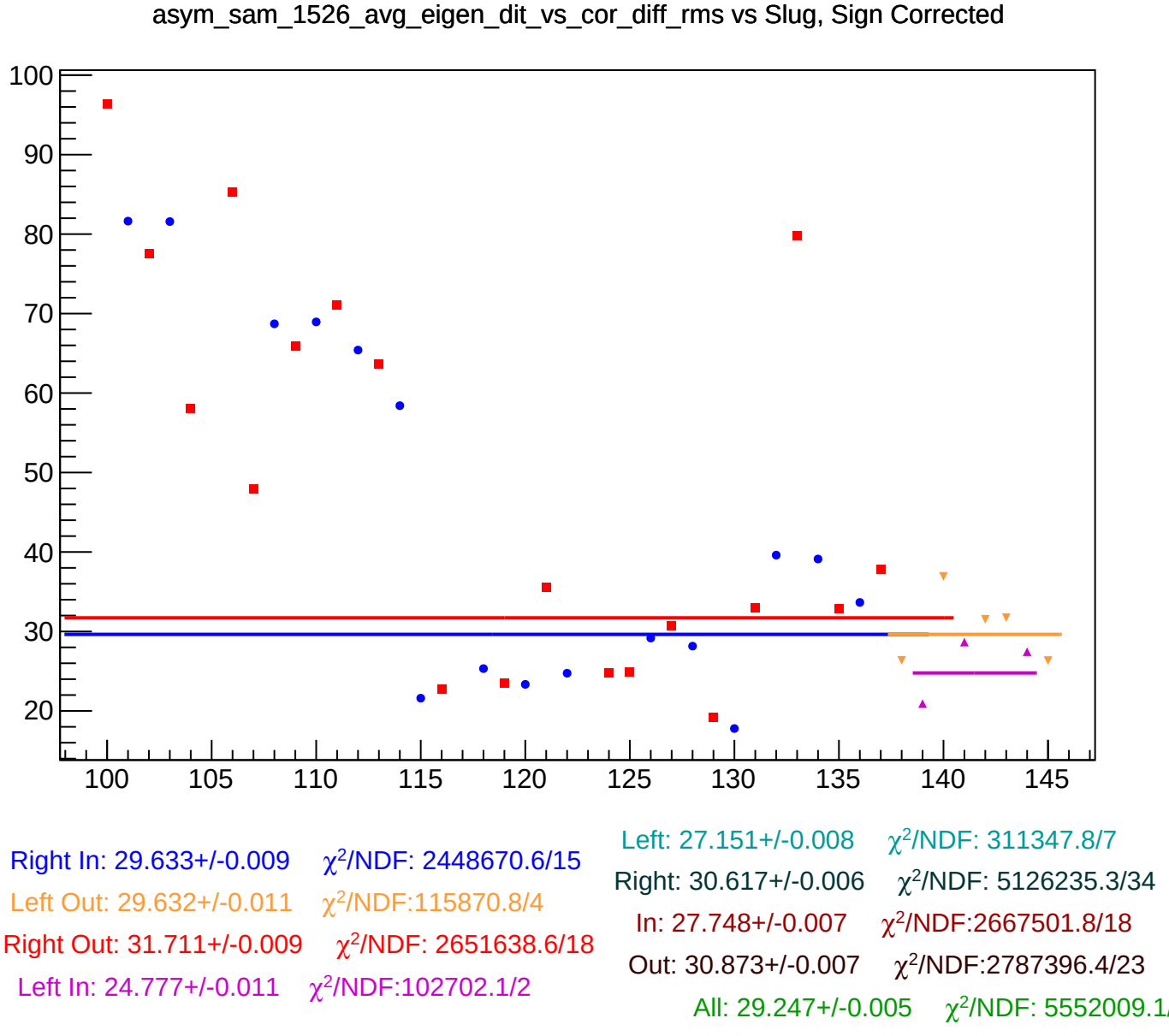
Left: -0.009+/-0.011 $\chi^2$/NDF: 20.0/7

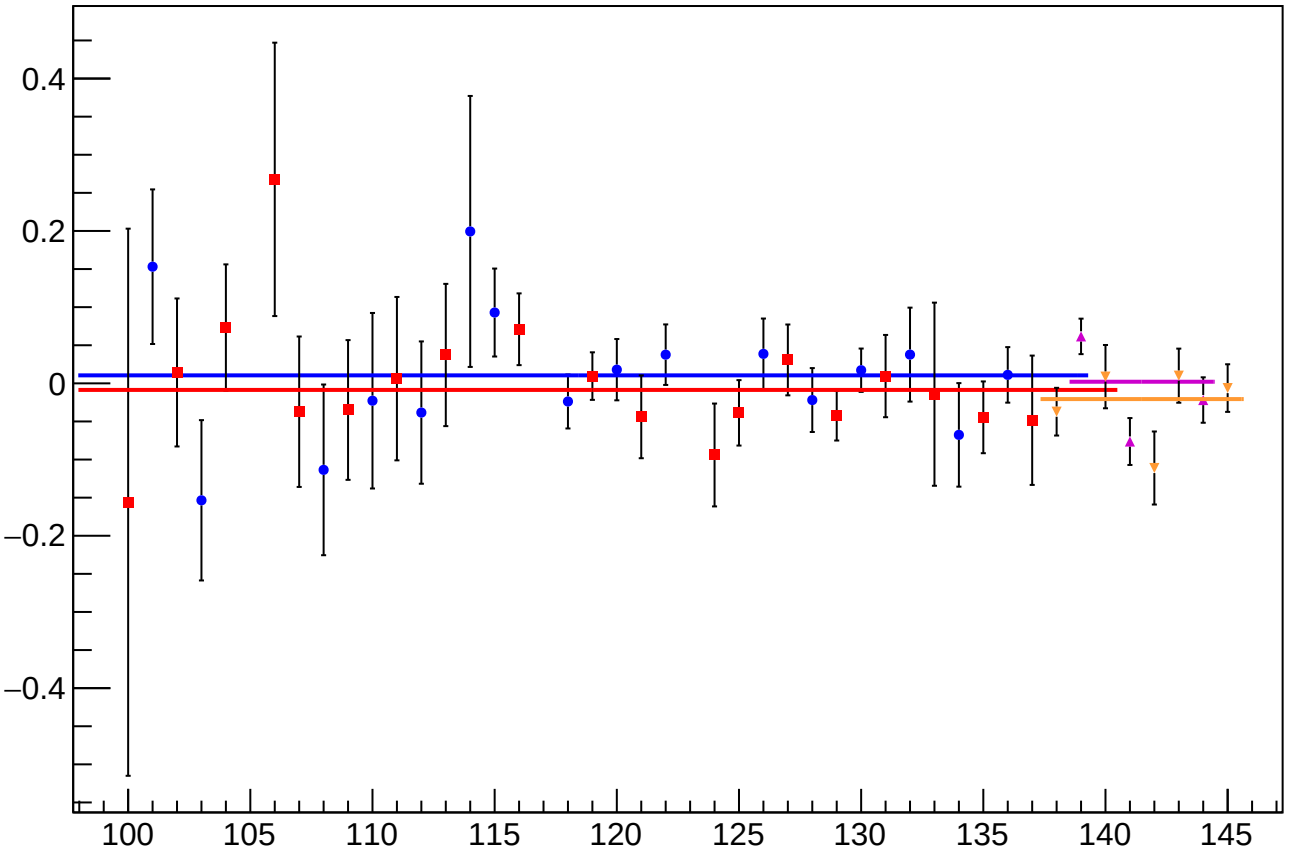
Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.007+/-0.010 $\chi^2$/NDF:27.0/18

Out: -0.013+/-0.010 $\chi^2$/NDF:18.1/23

All: -0.003+/-0.007 $\chi^2$/NDF: 47.2/42


asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected
100
90
80
70
60
50
40
30
20
100
105
110
115
120
125
130
135
140
145
Right In: 29.633+/-0.009 χ²/NDF: 2448670.6/15
Left Out: 29.632+/-0.011 χ²/NDF:115870.8/4
Right Out: 31.711+/-0.009 χ²/NDF: 2651638.6/18
Left In: 24.777+/-0.011 χ²/NDF:102702.1/2
Left: 27.151+/-0.008 χ²/NDF: 311347.8/7
Right: 30.617+/-0.006 χ²/NDF: 5126235.3/34
In: 27.748+/-0.007 χ²/NDF:2667501.8/18
Out: 30.873+/-0.007 χ²/NDF:2787396.4/23
All: 29.247+/-0.005 χ²/NDF: 5552009.1/42




Right In: 0.010+/-0.013 $\chi^2$/NDF: 13.1/15

Left Out: -0.021+/-0.016 $\chi^2$/NDF:5.3/4

Right Out: -0.009+/-0.013 $\chi^2$/NDF: 12.4/18

Left In: 0.002+/-0.016 $\chi^2$/NDF:13.7/2

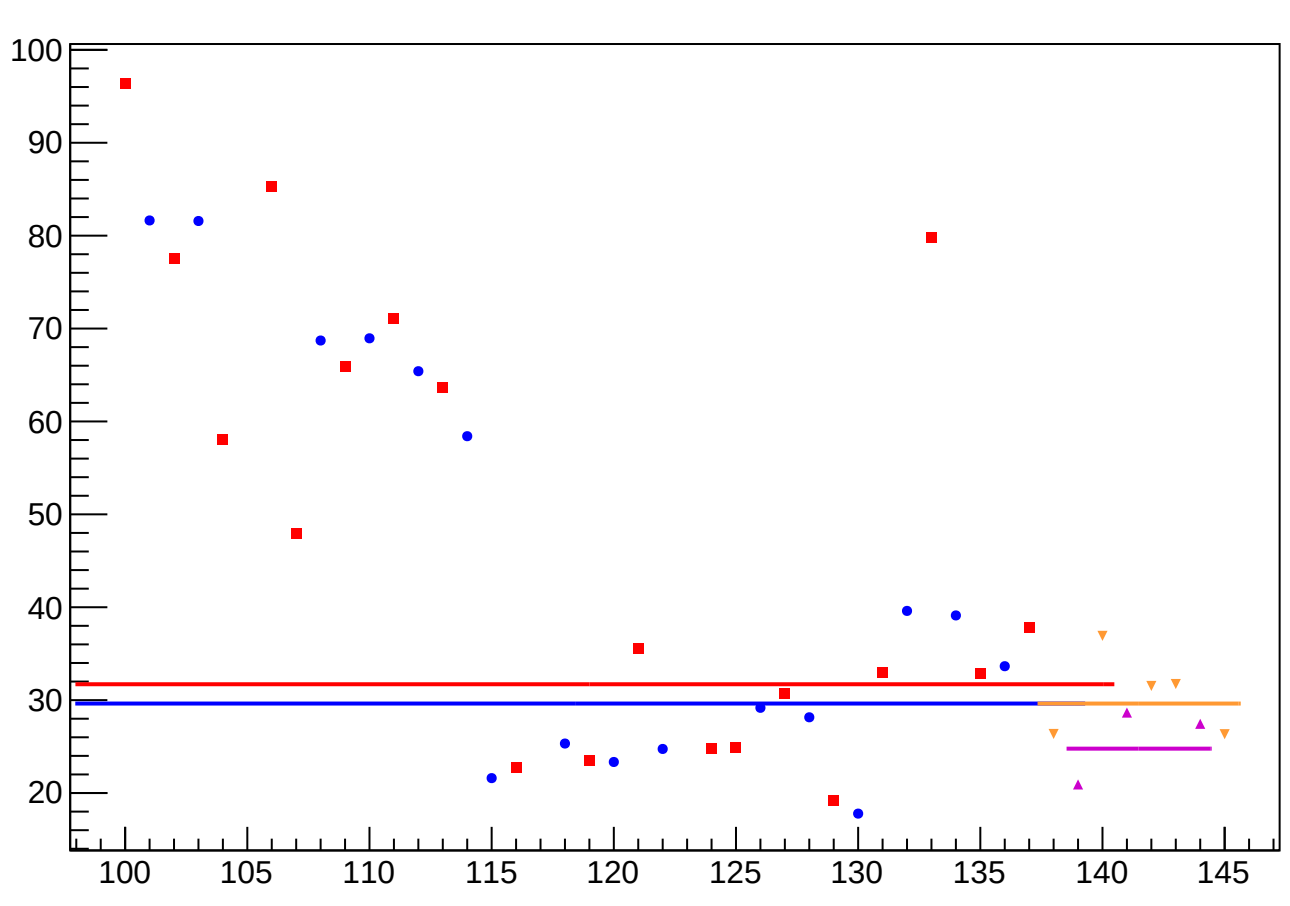
Left: -0.009+/-0.011 $\chi^2$/NDF: 20.0/7

Right: 0.001+/-0.009 $\chi^2$/NDF: 26.7/34

In: 0.007+/-0.010 $\chi^2$/NDF:27.0/18

Out: -0.013+/-0.010 $\chi^2$/NDF:18.1/23

All: -0.003+/-0.007 $\chi^2$/NDF: 47.2/42




Right In: 29.633+/-0.009 $\chi^2$/NDF: 2448670.6/15

Left Out: 29.632+/-0.011 $\chi^2$/NDF:115870.8/4

Right Out: 31.711+/-0.009 $\chi^2$/NDF: 2651638.6/18

Left In: 24.777+/-0.011 $\chi^2$/NDF:102702.1/2

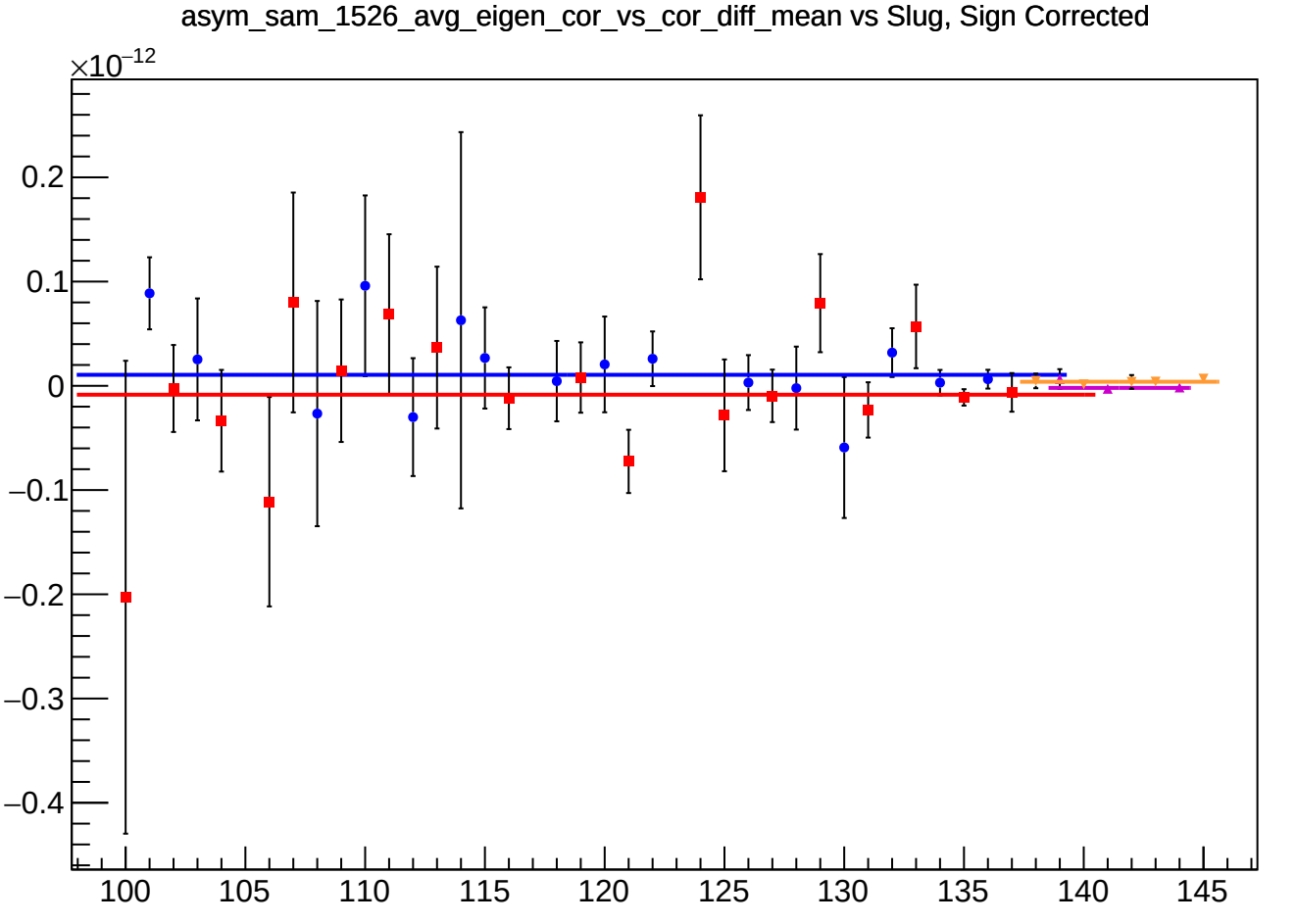
Left: 27.151+/-0.008 $\chi^2$/NDF: 311347.8/7

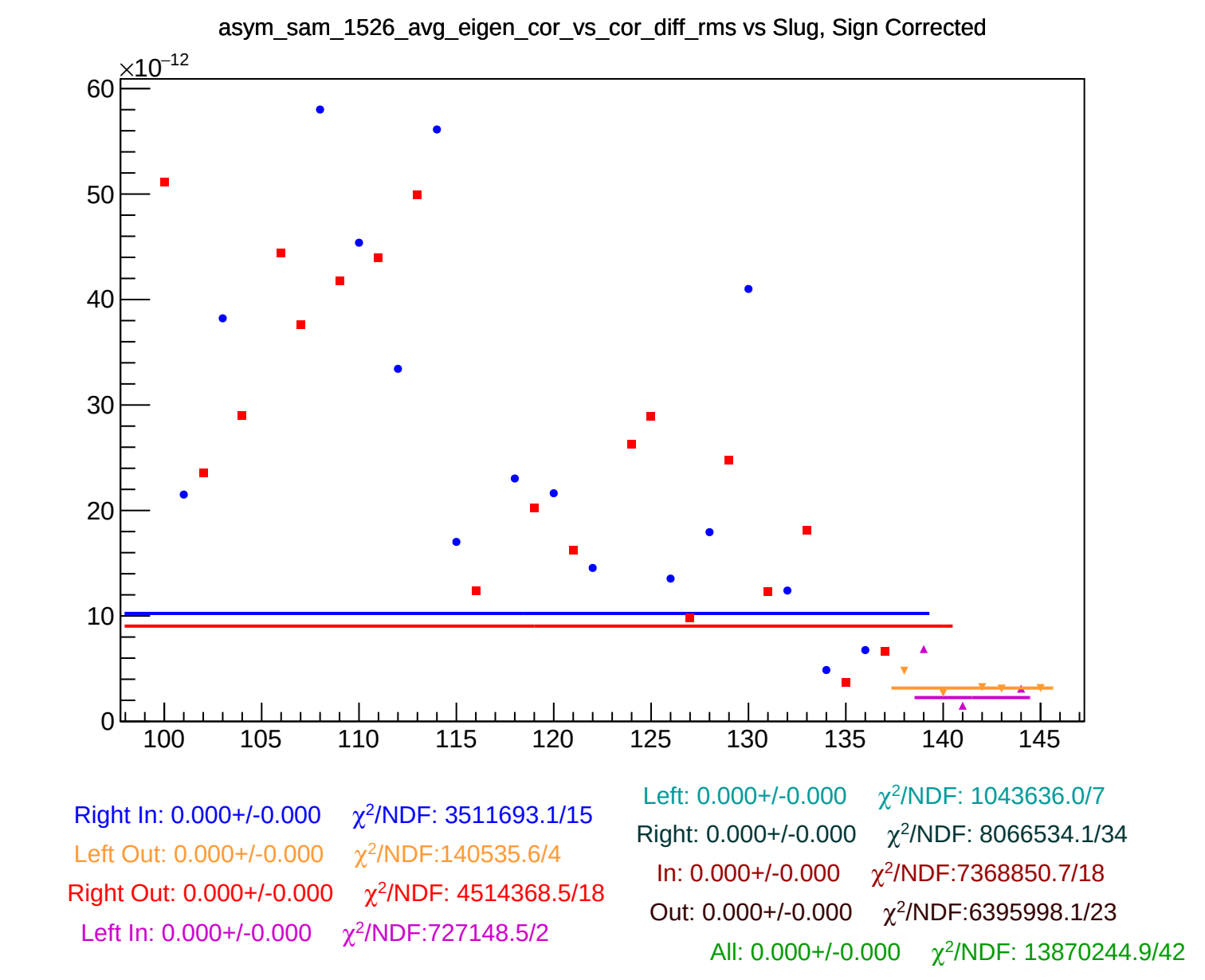
Right: 30.617+/-0.006 $\chi^2$/NDF: 5126235.3/34

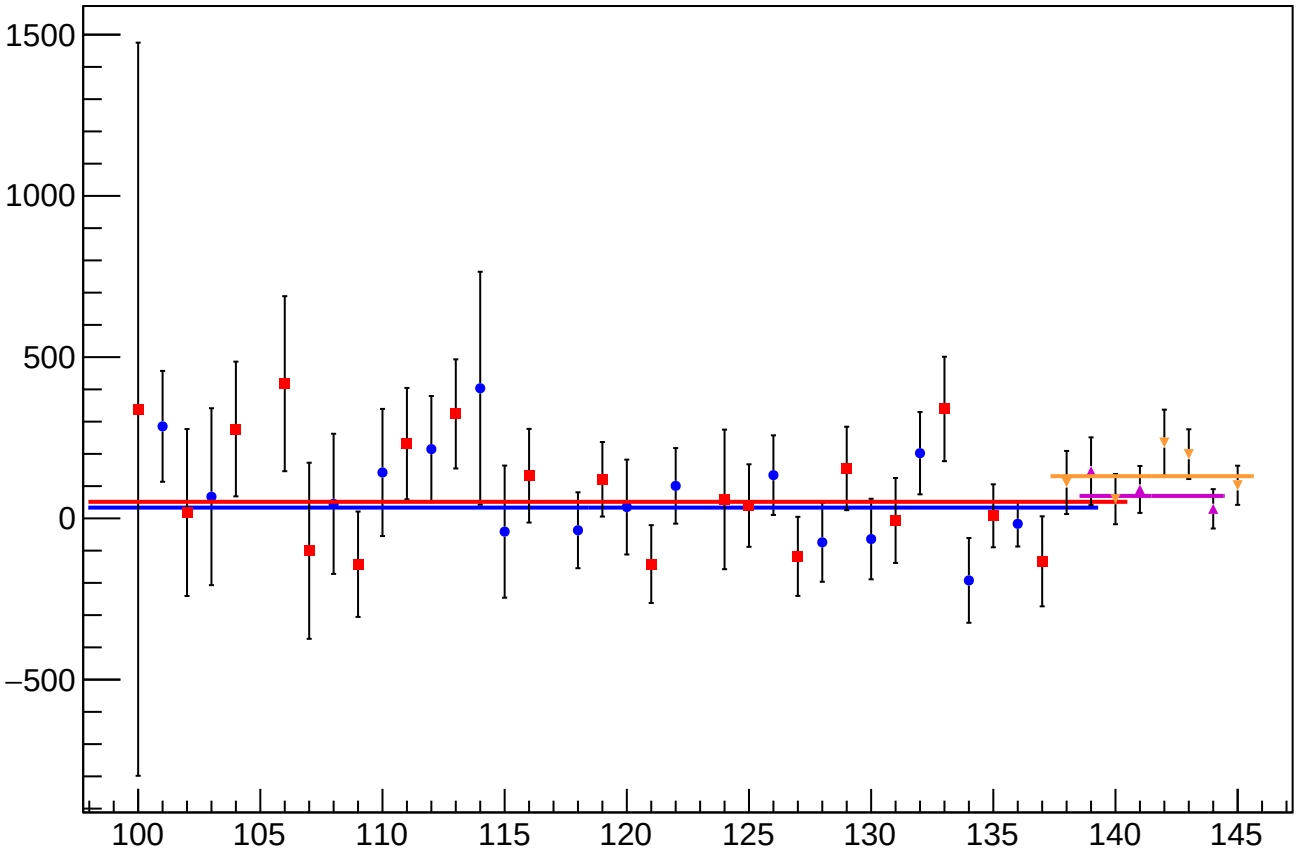
In: 27.748+/-0.007 $\chi^2$/NDF:2667501.8/18

Out: 30.873+/-0.007 $\chi^2$/NDF:2787396.4/23

All: 29.247+/-0.005 $\chi^2$/NDF: 5552009.1/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 10.1/15
Left Out: 0.000+/-0.000 χ²/NDF:0.9/4
Right Out: -0.000+/-0.000 χ²/NDF: 21.4/18
Left In: -0.000+/-0.000 χ²/NDF:0.9/2
Left: 0.000+/-0.000 χ²/NDF: 5.6/7
Right: 0.000+/-0.000 χ²/NDF: 36.6/34
In: -0.000+/-0.000 χ²/NDF:14.9/18
Out: 0.000+/-0.000 χ²/NDF:26.3/23
All: 0.000+/-0.000 χ²/NDF: 42.2/42


asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 3511693.1/15
Left Out: 0.000+/-0.000 χ²/NDF:140535.6/4
Right Out: 0.000+/-0.000 χ²/NDF: 4514368.5/18
Left In: 0.000+/-0.000 χ²/NDF:727148.5/2
Left: 0.000+/-0.000 χ²/NDF: 1043636.0/7
Right: 0.000+/-0.000 χ²/NDF: 8066534.1/34
In: 0.000+/-0.000 χ²/NDF:7368850.7/18
Out: 0.000+/-0.000 χ²/NDF:6395998.1/23
All: 0.000+/-0.000 χ²/NDF: 13870244.9/42




Right In: 33.431+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 130.924+/-35.257 $\chi^2$/NDF:2.9/4

Right Out: 51.335+/-34.851 $\chi^2$/NDF: 19.6/18

Left In: 69.634+/-42.720 $\chi^2$/NDF:1.0/2

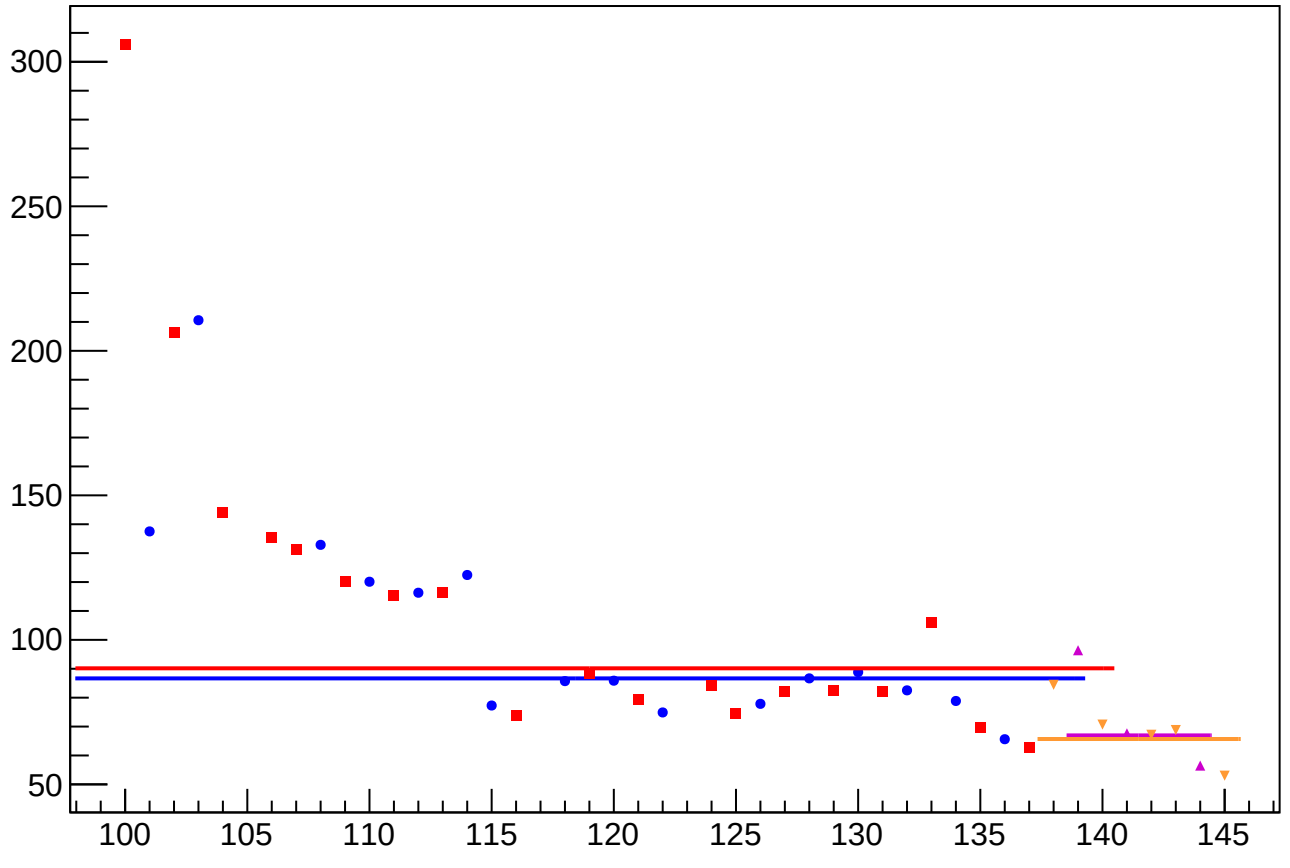
Left: 106.092+/-27.192 $\chi^2$/NDF: 5.2/7

Right: 42.130+/-24.293 $\chi^2$/NDF: 32.5/34

In: 47.410+/-26.546 $\chi^2$/NDF:14.3/18

Out: 90.668+/-24.786 $\chi^2$/NDF:25.1/23

All: 70.520+/-18.116 $\chi^2$/NDF: 40.8/42




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038813.4/15

Left Out: 65.698+/-0.025 $\chi^2$/NDF:172603.9/4

Right Out: 90.153+/-0.025 $\chi^2$/NDF: 1149976.9/18

Left In: 66.943+/-0.030 $\chi^2$/NDF:216057.2/2

Left: 66.202+/-0.019 $\chi^2$/NDF: 389671.0/7

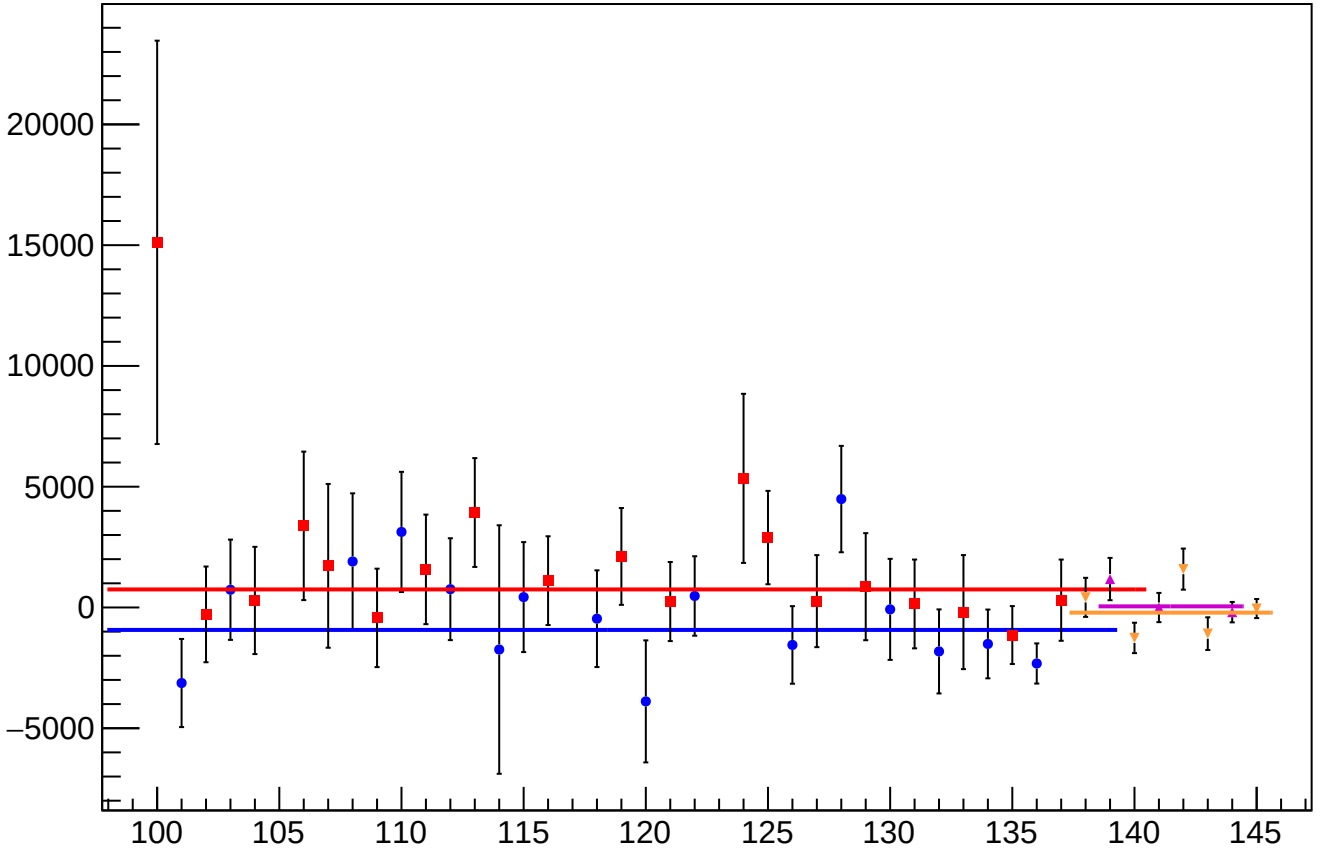
Right: 88.360+/-0.017 $\chi^2$/NDF: 2199082.5/34

In: 79.050+/-0.019 $\chi^2$/NDF:1516579.2/18

Out: 78.067+/-0.018 $\chi^2$/NDF:1809253.9/23

All: 78.525+/-0.013 $\chi^2$/NDF: 3327299.0/42

asym_sam_3726_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -929.821+/-440.893 $\chi^2$/NDF: 18.5/15

Left Out: -214.049+/-266.921 $\chi^2$/NDF:9.7/4

Right Out: 747.199+/-467.902 $\chi^2$/NDF: 13.0/18

Left In: 46.030+/-322.264 $\chi^2$/NDF:2.0/2

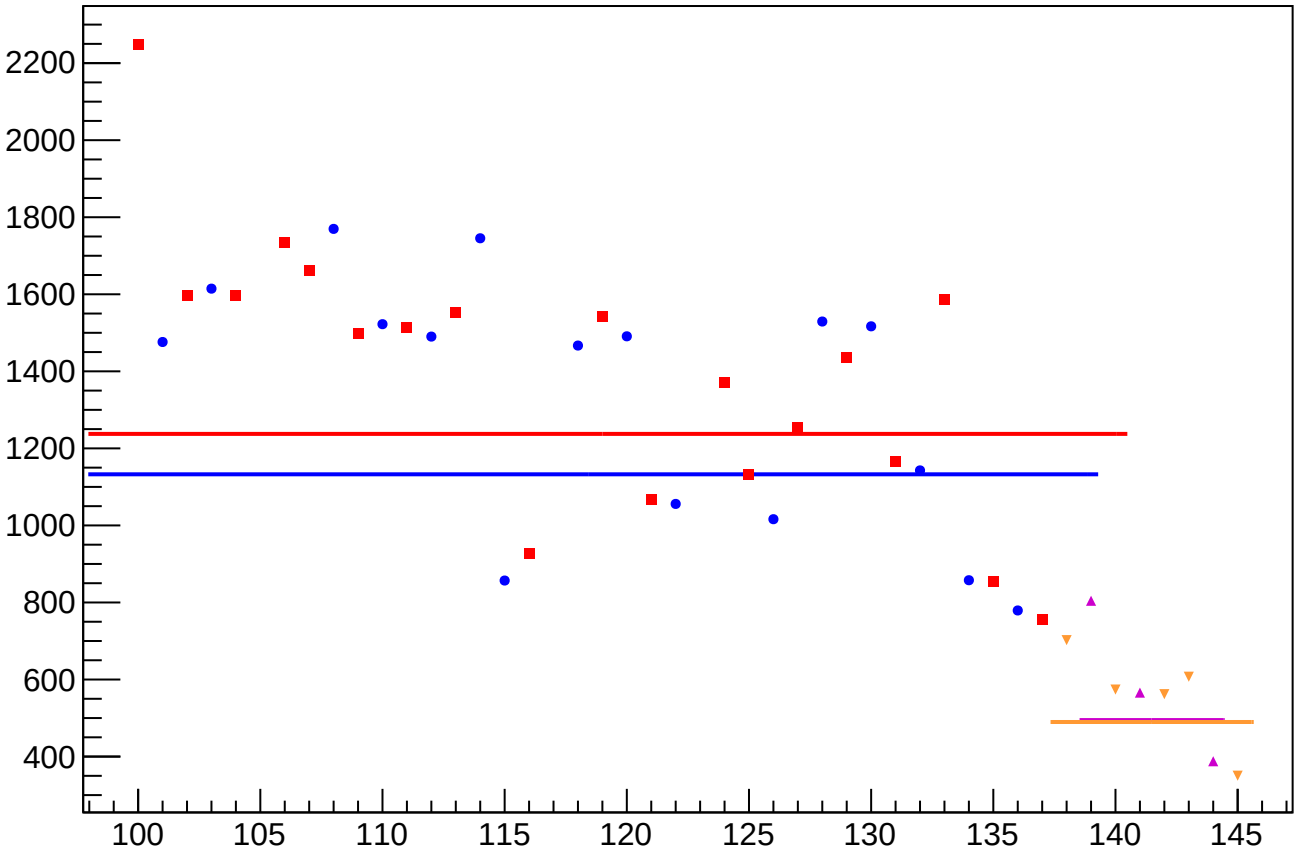
Left: -108.225+/-205.565 $\chi^2$/NDF: 12.1/7

Right: -141.108+/-320.882 $\chi^2$/NDF: 38.3/34

In: -293.782+/-260.172 $\chi^2$/NDF:23.7/18

Out: 21.963+/-231.849 $\chi^2$/NDF:25.9/23

All: -117.793+/-173.093 $\chi^2$/NDF: 50.4/42




Right In: 1132.688+/-0.312 $\chi^2$/NDF: 1124151.1/15

Left Out: 489.761+/-0.189 $\chi^2$/NDF:497878.9/4

Right Out: 1237.591+/-0.331 $\chi^2$/NDF: 895314.3/18

Left In: 494.758+/-0.228 $\chi^2$/NDF:405690.0/2

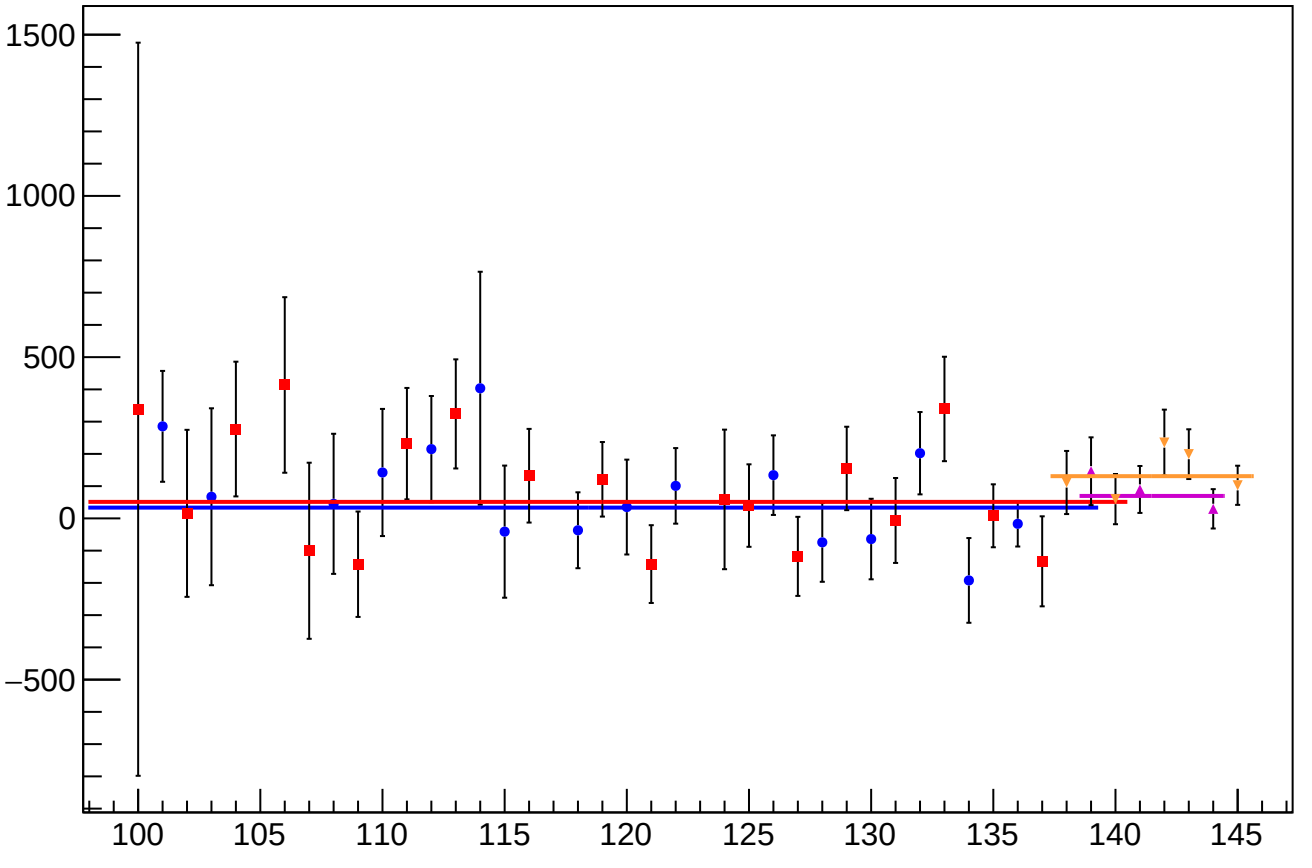
Left: 491.794+/-0.145 $\chi^2$/NDF: 903854.2/7

Right: 1182.025+/-0.227 $\chi^2$/NDF: 2072715.6/34

In: 716.899+/-0.184 $\chi^2$/NDF:4258880.0/18

Out: 673.373+/-0.164 $\chi^2$/NDF:5247710.0/23

All: 692.639+/-0.122 $\chi^2$/NDF: 9537790.3/42




Right In: 33.422+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 130.926+/-35.257 $\chi^2$/NDF:2.9/4

Right Out: 51.188+/-34.853 $\chi^2$/NDF: 19.5/18

Left In: 69.636+/-42.720 $\chi^2$/NDF:1.0/2

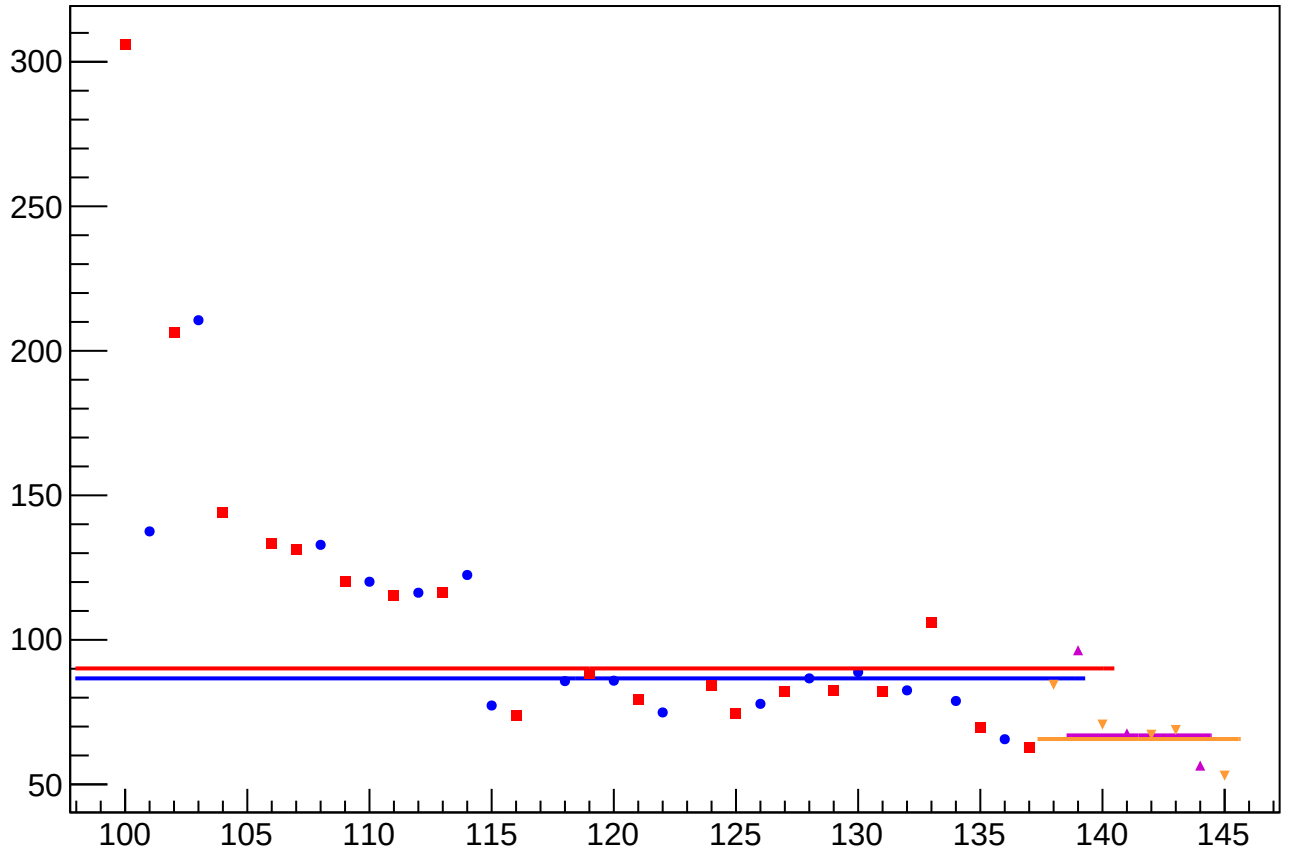
Left: 106.094+/-27.192 $\chi^2$/NDF: 5.2/7

Right: 42.054+/-24.294 $\chi^2$/NDF: 32.5/34

In: 47.405+/-26.546 $\chi^2$/NDF:14.3/18

Out: 90.597+/-24.787 $\chi^2$/NDF:25.0/23

All: 70.480+/-18.117 $\chi^2$/NDF: 40.7/42




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038816.2/15

Left Out: 65.698+/-0.025 $\chi^2$/NDF:172603.9/4

Right Out: 90.116+/-0.025 $\chi^2$/NDF: 1145283.2/18

Left In: 66.943+/-0.030 $\chi^2$/NDF:216057.2/2

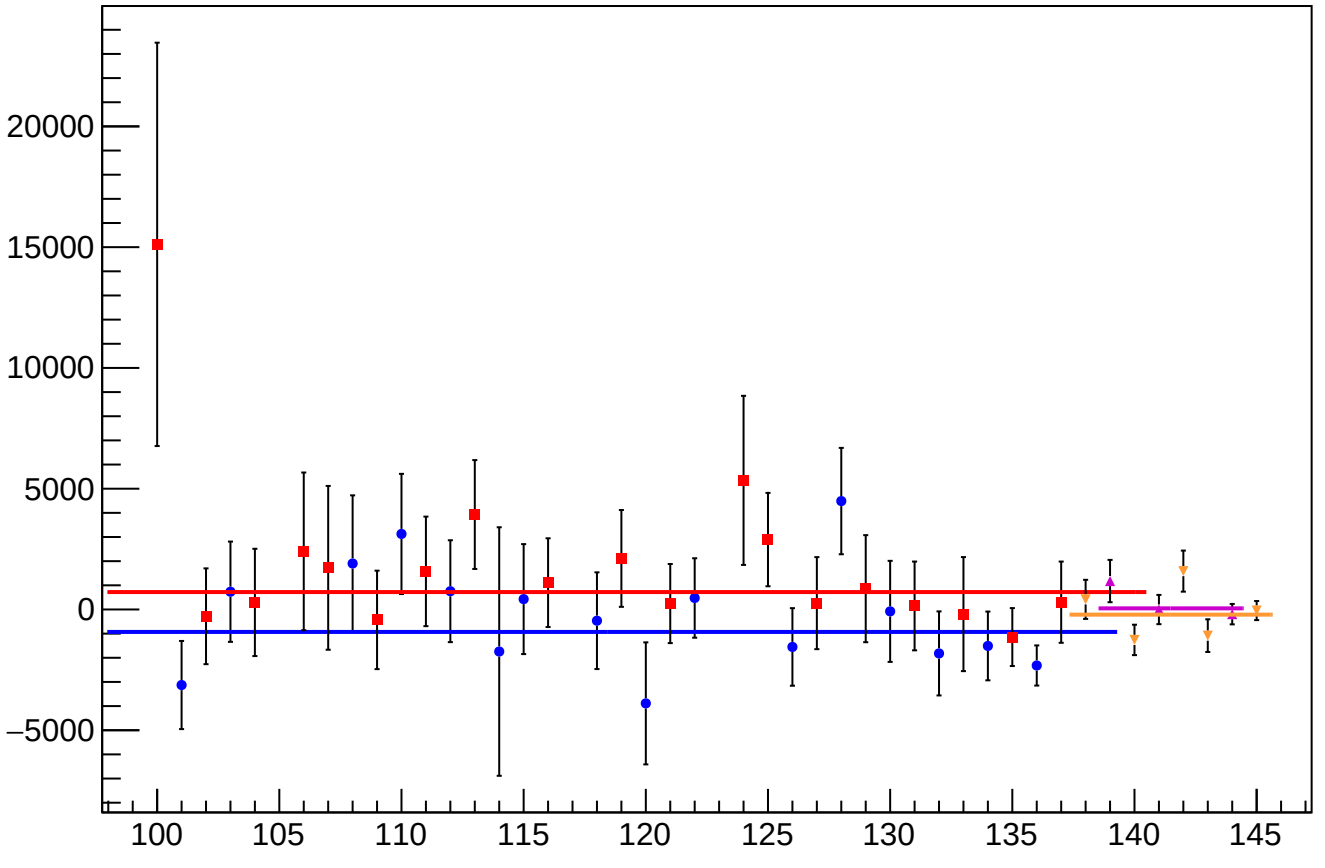
Left: 66.202+/-0.019 $\chi^2$/NDF: 389671.0/7

Right: 88.342+/-0.017 $\chi^2$/NDF: 2194173.3/34

In: 79.050+/-0.019 $\chi^2$/NDF:1516581.9/18

Out: 78.048+/-0.018 $\chi^2$/NDF:1803056.1/23

All: 78.515+/-0.013 $\chi^2$/NDF: 3321162.6/42




Right In: -929.788+/-440.894 $\chi^2$/NDF: 18.5/15

Left Out: -214.042+/-266.921 $\chi^2$/NDF:9.7/4

Right Out: 720.600+/-468.540 $\chi^2$/NDF: 12.5/18

Left In: 46.032+/-322.264 $\chi^2$/NDF:2.0/2

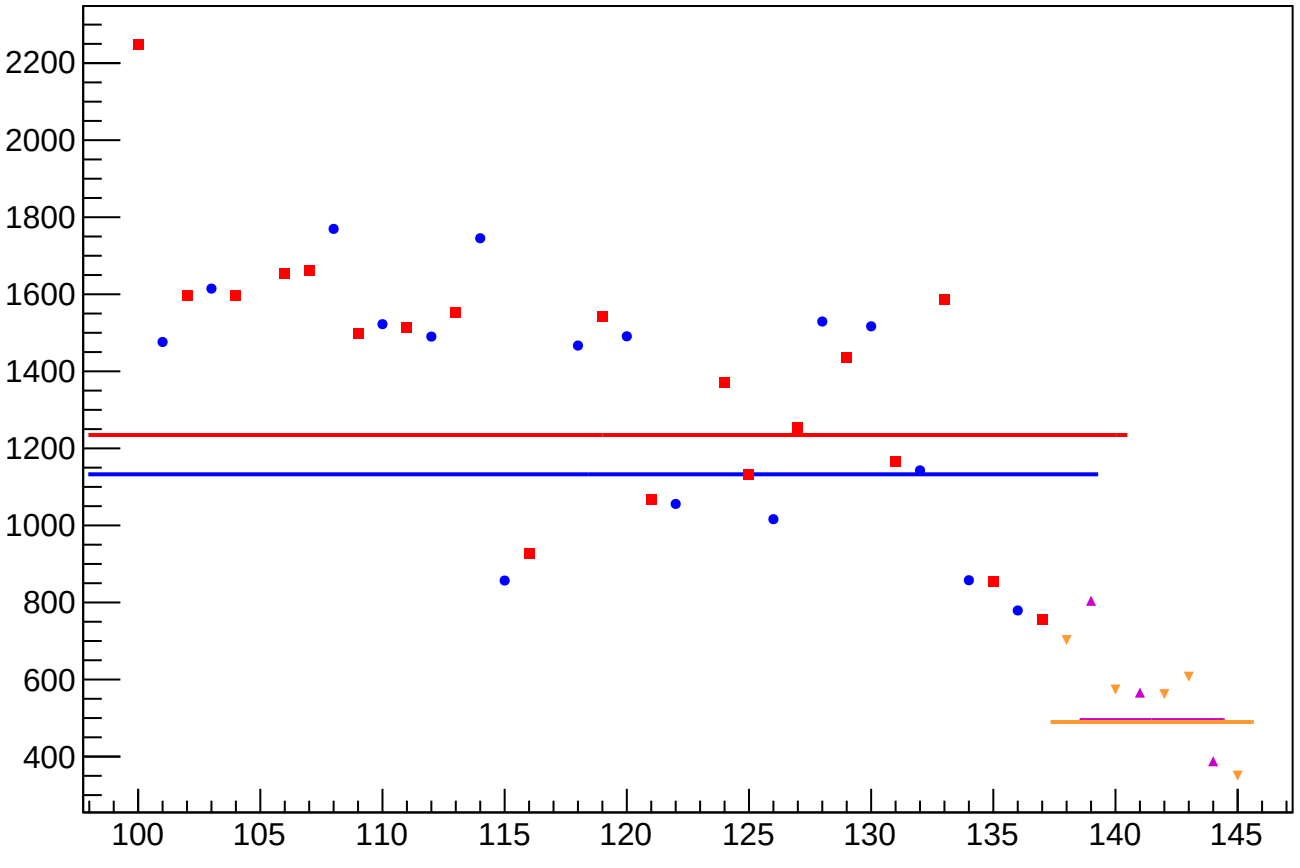
Left: -108.221+/-205.565 $\chi^2$/NDF: 12.1/7

Right: -154.717+/-321.088 $\chi^2$/NDF: 37.6/34

In: -293.769+/-260.173 $\chi^2$/NDF:23.7/18

Out: 14.966+/-231.926 $\chi^2$/NDF:25.2/23

All: -121.738+/-173.125 $\chi^2$/NDF: 49.7/42




Right In: 1132.689+/-0.312 $\chi^2$/NDF: 1124187.2/15

Left Out: 489.760+/-0.189 $\chi^2$/NDF:497879.0/4

Right Out: 1234.709+/-0.331 $\chi^2$/NDF: 876272.4/18

Left In: 494.758+/-0.228 $\chi^2$/NDF:405690.2/2

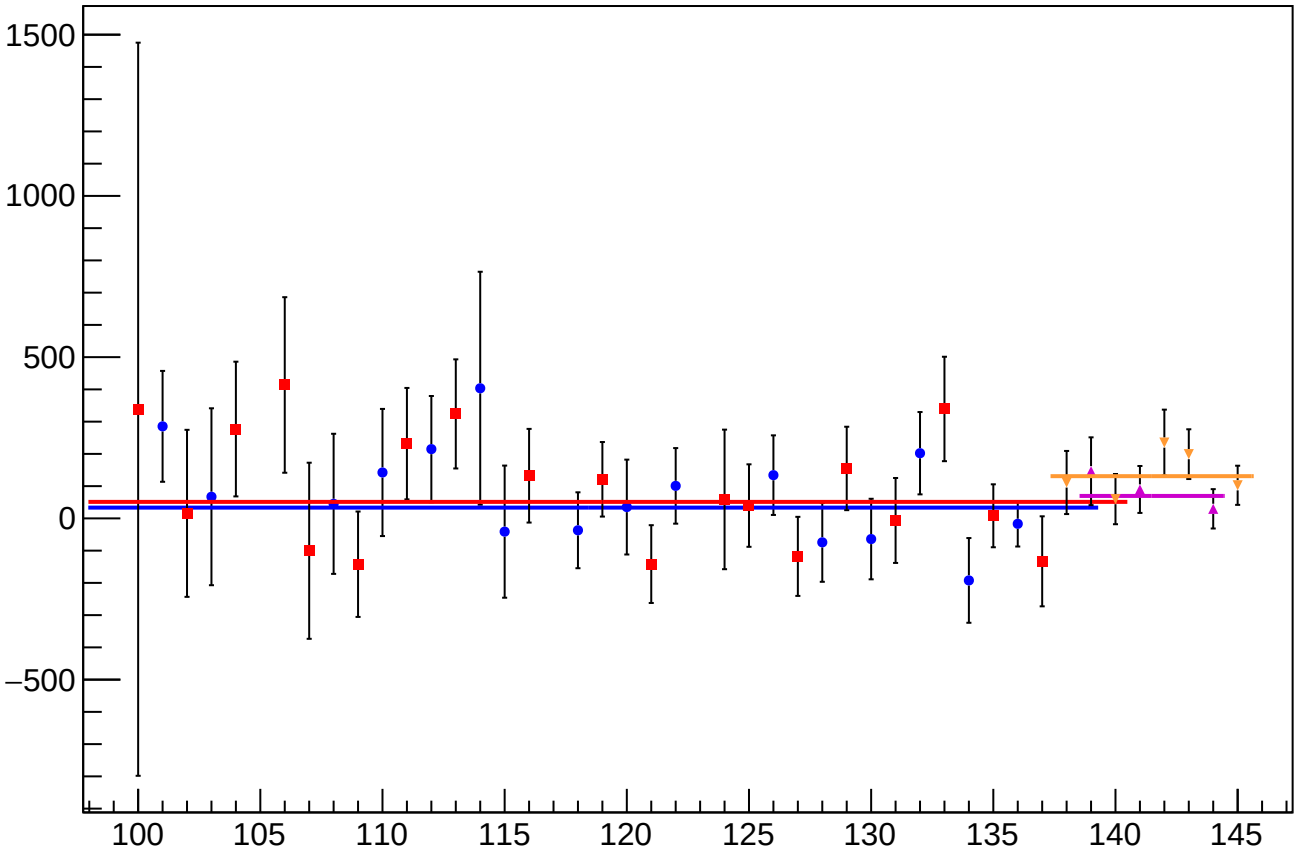
Left: 491.794+/-0.145 $\chi^2$/NDF: 903854.6/7

Right: 1180.601+/-0.227 $\chi^2$/NDF: 2050749.6/34

In: 716.899+/-0.184 $\chi^2$/NDF:4258914.7/18

Out: 672.289+/-0.164 $\chi^2$/NDF:5191164.8/23

All: 692.042+/-0.122 $\chi^2$/NDF: 9482843.0/42




Right In: 33.422+/-33.881 $\chi^2$/NDF: 12.8/15

Left Out: 130.926+/-35.257 $\chi^2$/NDF:2.9/4

Right Out: 51.188+/-34.853 $\chi^2$/NDF: 19.5/18

Left In: 69.636+/-42.720 $\chi^2$/NDF:1.0/2

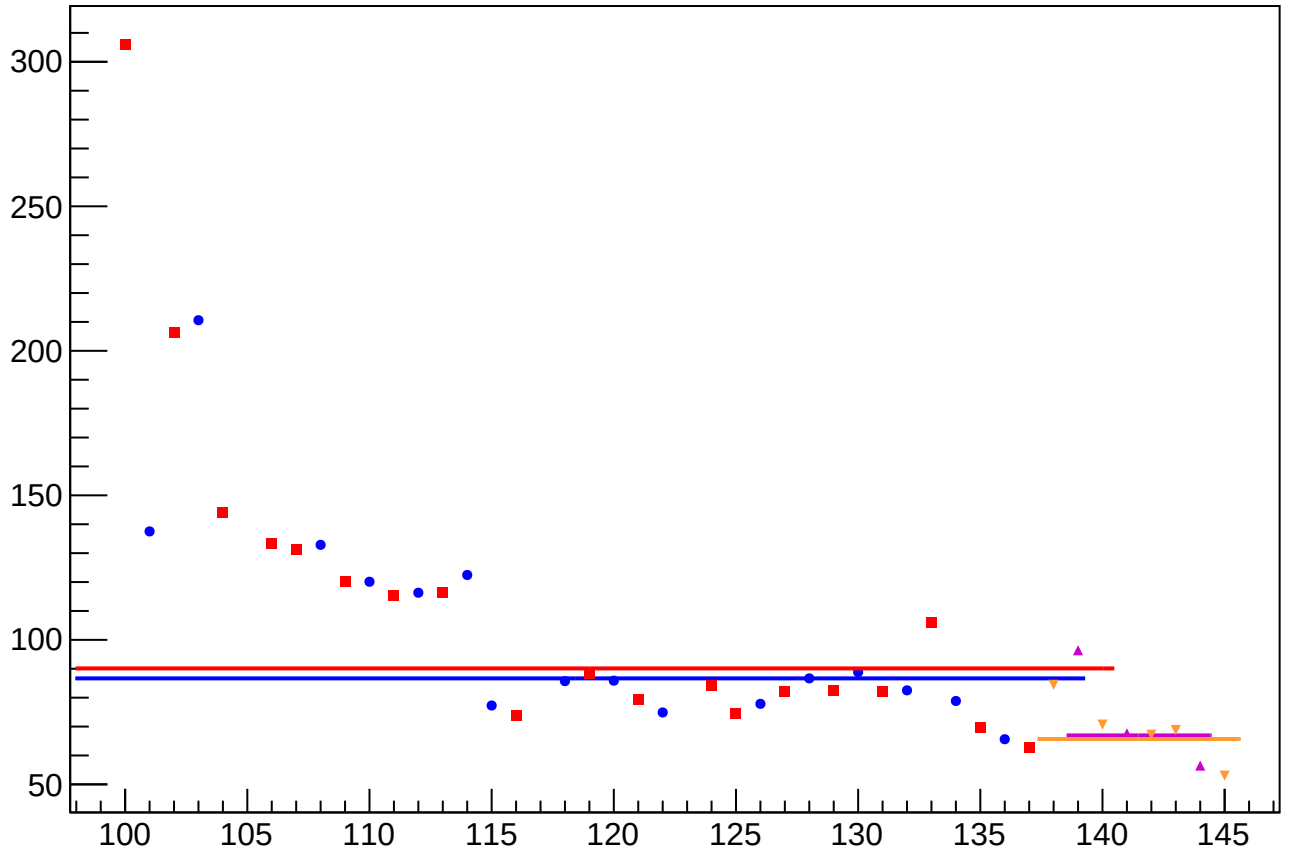
Left: 106.094+/-27.192 $\chi^2$/NDF: 5.2/7

Right: 42.054+/-24.294 $\chi^2$/NDF: 32.5/34

In: 47.405+/-26.546 $\chi^2$/NDF:14.3/18

Out: 90.597+/-24.787 $\chi^2$/NDF:25.0/23

All: 70.480+/-18.117 $\chi^2$/NDF: 40.7/42




Right In: 86.666+/-0.024 $\chi^2$/NDF: 1038816.2/15

Left Out: 65.698+/-0.025 $\chi^2$/NDF:172603.9/4

Right Out: 90.116+/-0.025 $\chi^2$/NDF: 1145283.2/18

Left In: 66.943+/-0.030 $\chi^2$/NDF:216057.2/2

Left: 66.202+/-0.019 $\chi^2$/NDF: 389671.0/7

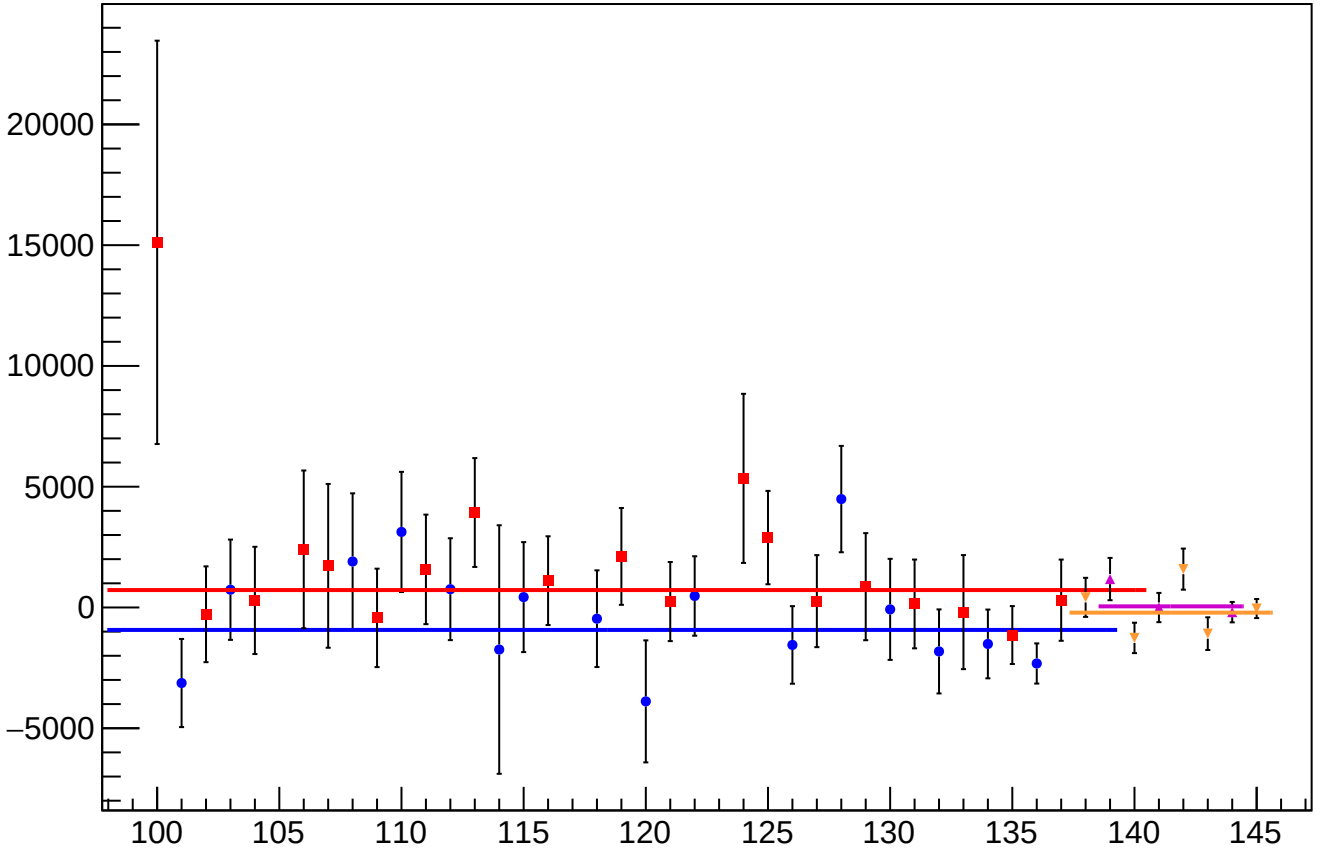
Right: 88.342+/-0.017 $\chi^2$/NDF: 2194173.3/34

In: 79.050+/-0.019 $\chi^2$/NDF:1516581.9/18

Out: 78.048+/-0.018 $\chi^2$/NDF:1803056.1/23

All: 78.515+/-0.013 $\chi^2$/NDF: 3321162.6/42

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: -214.042+/-266.921 $\chi^2$/NDF:9.7/4

Right Out: 720.600+/-468.540 $\chi^2$/NDF: 12.5/18

Left In: 46.032+/-322.264 $\chi^2$/NDF:2.0/2

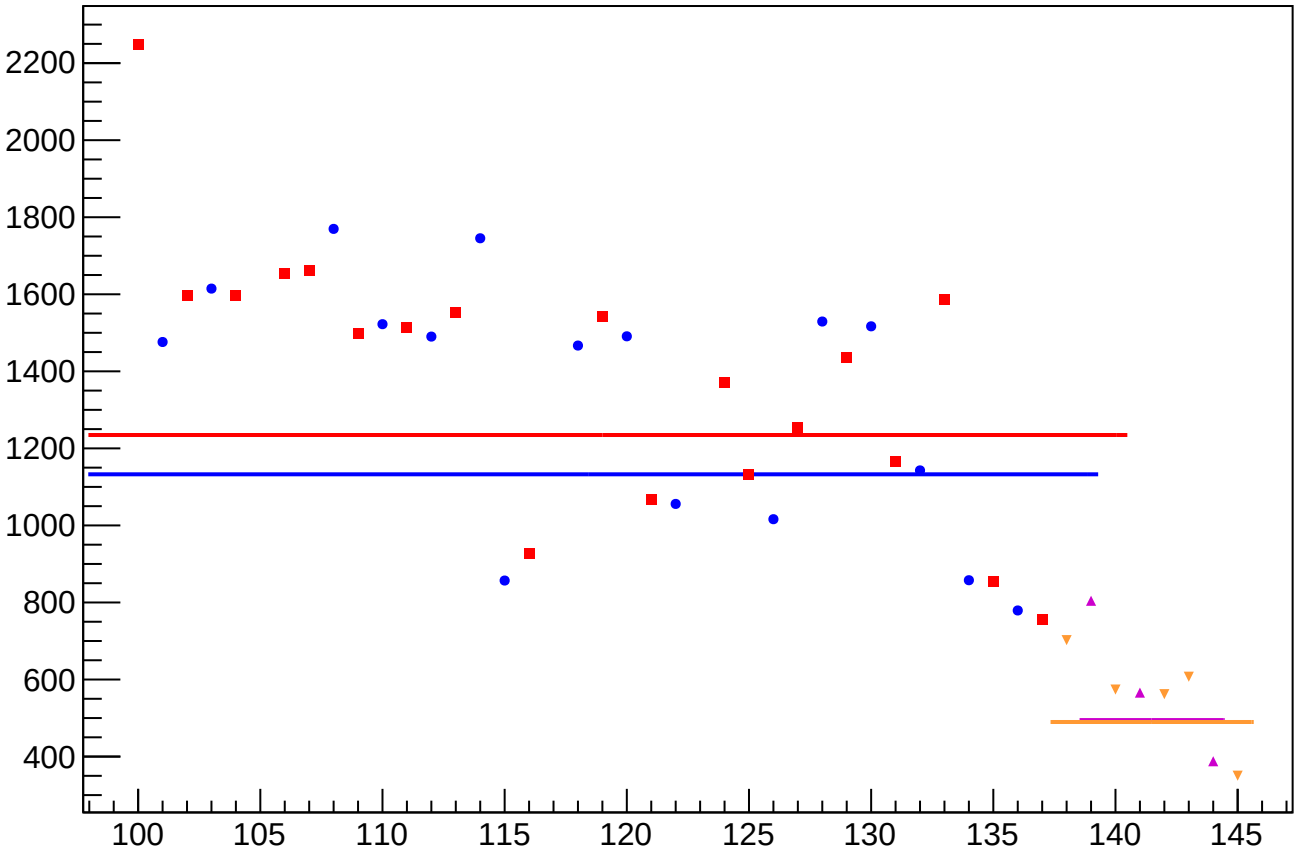
Left: -108.221+/-205.565 $\chi^2$/NDF: 12.1/7

Right: -154.717+/-321.088 $\chi^2$/NDF: 37.6/34

In: -293.769+/-260.173 $\chi^2$/NDF:23.7/18

Out: 14.966+/-231.926 $\chi^2$/NDF:25.2/23

All: -121.738+/-173.125 $\chi^2$/NDF: 49.7/42




Right In: 1132.689+/-0.312 $\chi^2$/NDF: 1124187.2/15

Left Out: 489.760+/-0.189 $\chi^2$/NDF:497879.0/4

Right Out: 1234.709+/-0.331 $\chi^2$/NDF: 876272.4/18

Left In: 494.758+/-0.228 $\chi^2$/NDF:405690.2/2

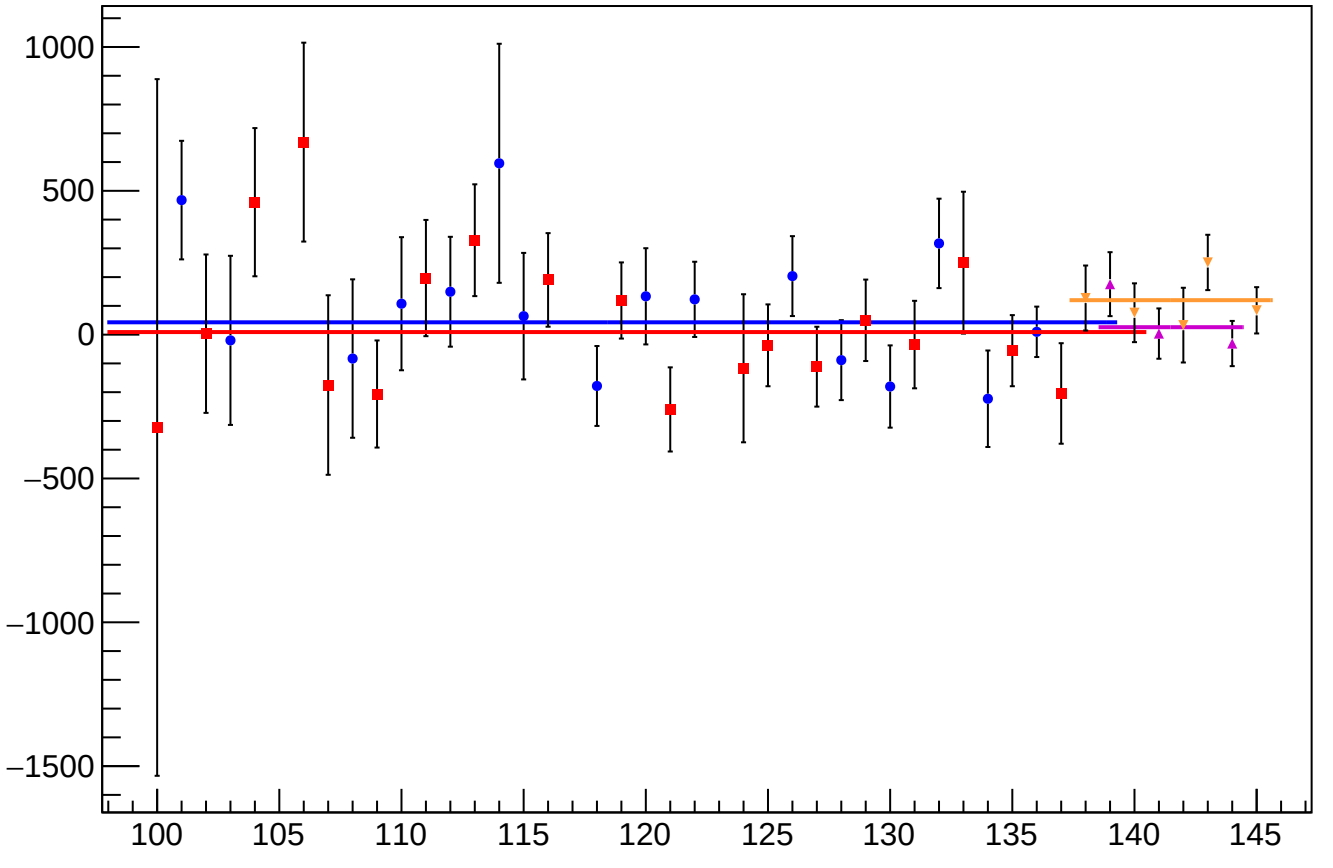
Left: 491.794+/-0.145 $\chi^2$/NDF: 903854.6/7

Right: 1180.601+/-0.227 $\chi^2$/NDF: 2050749.6/34

In: 716.899+/-0.184 $\chi^2$/NDF:4258914.7/18

Out: 672.289+/-0.164 $\chi^2$/NDF:5191164.8/23

All: 692.042+/-0.122 $\chi^2$/NDF: 9482843.0/42




Right In: 42.914+/-39.948 $\chi^2$/NDF: 20.3/15

Left Out: 119.851+/-44.910 $\chi^2$/NDF:2.7/4

Right Out: 8.989+/-41.060 $\chi^2$/NDF: 21.3/18

Left In: 25.945+/-51.742 $\chi^2$/NDF:2.4/2

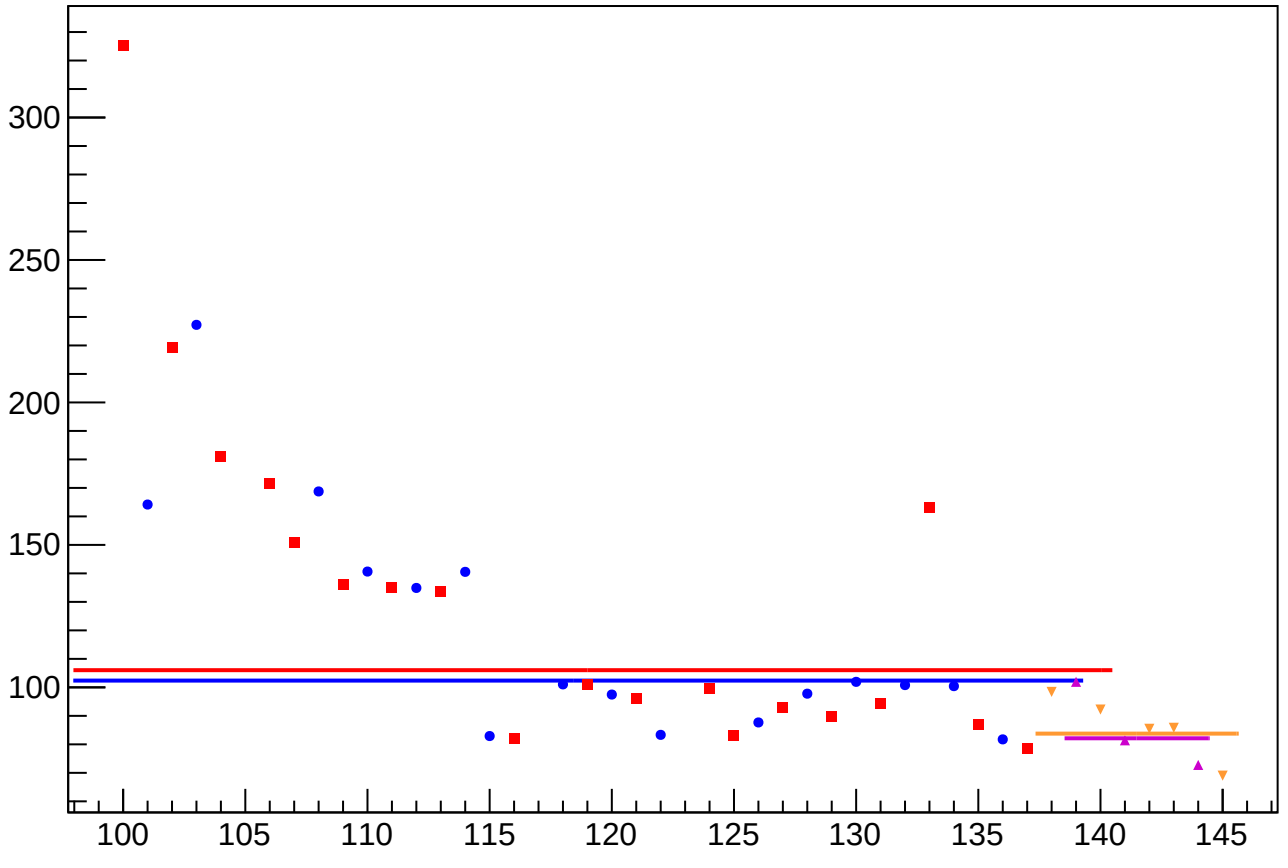
Left: 79.503+/-33.916 $\chi^2$/NDF: 7.0/7

Right: 26.417+/-28.632 $\chi^2$/NDF: 42.0/34

In: 36.577+/-31.620 $\chi^2$/NDF:22.8/18

Out: 59.465+/-30.303 $\chi^2$/NDF:27.3/23

All: 48.508+/-21.879 $\chi^2$/NDF: 50.4/42




Right In: 102.378+/-0.028 $\chi^2$/NDF: 982311.5/15

Left Out: 83.766+/-0.032 $\chi^2$/NDF:115636.7/4

Right Out: 106.032+/-0.029 $\chi^2$/NDF: 1191294.0/18

Left In: 82.127+/-0.037 $\chi^2$/NDF:92024.7/2

Left: 83.062+/-0.024 $\chi^2$/NDF: 208805.4/7

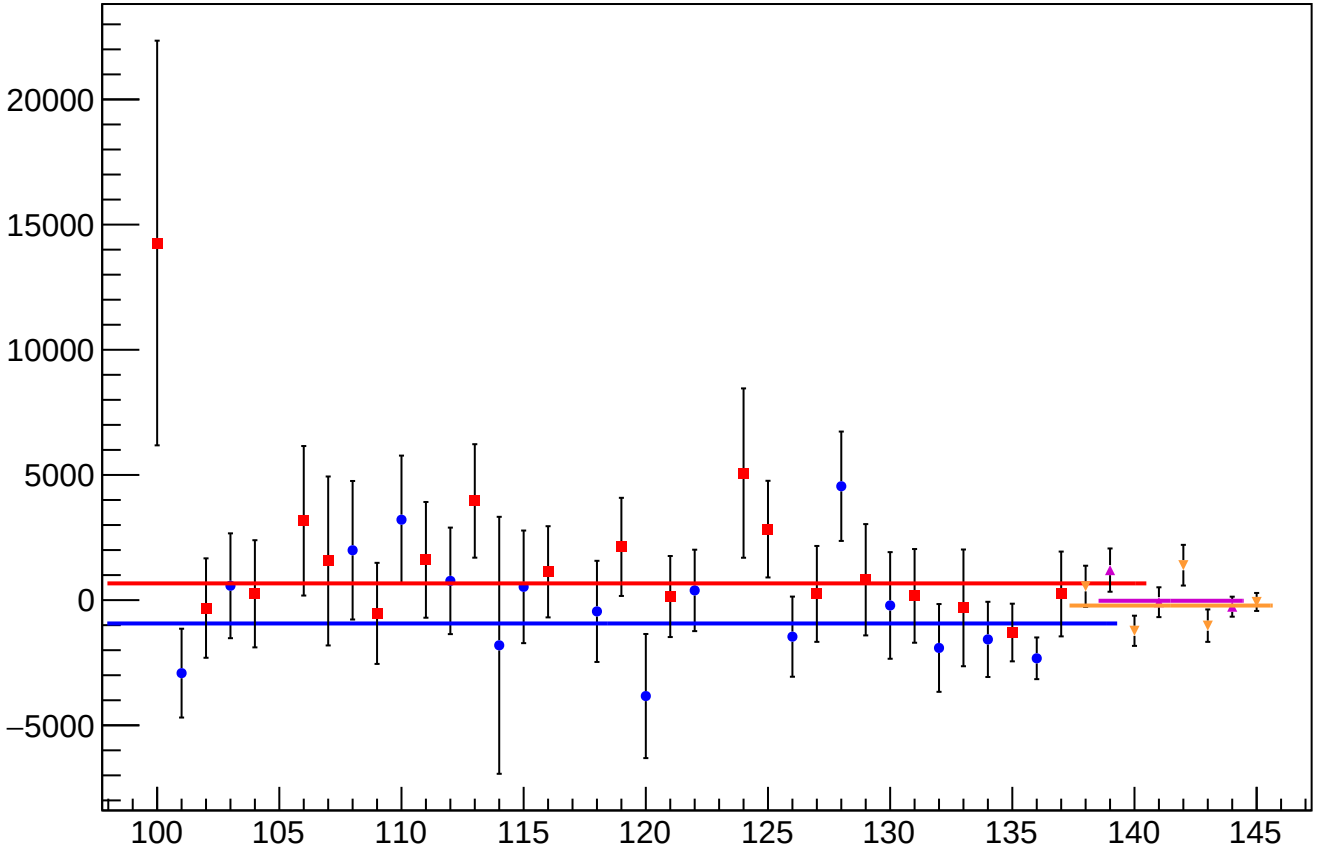
Right: 104.155+/-0.020 $\chi^2$/NDF: 2181742.7/34

In: 94.815+/-0.022 $\chi^2$/NDF:1266289.6/18

Out: 95.894+/-0.021 $\chi^2$/NDF:1574736.2/23

All: 95.378+/-0.015 $\chi^2$/NDF: 2842239.4/42

asym_sam_3726_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -932.381+/-442.724 $\chi^2$/NDF: 18.5/15

Left Out: -216.679+/-250.956 $\chi^2$/NDF:9.3/4

Right Out: 668.521+/-463.213 $\chi^2$/NDF: 13.5/18

Left In: -25.650+/-309.880 $\chi^2$/NDF:2.4/2

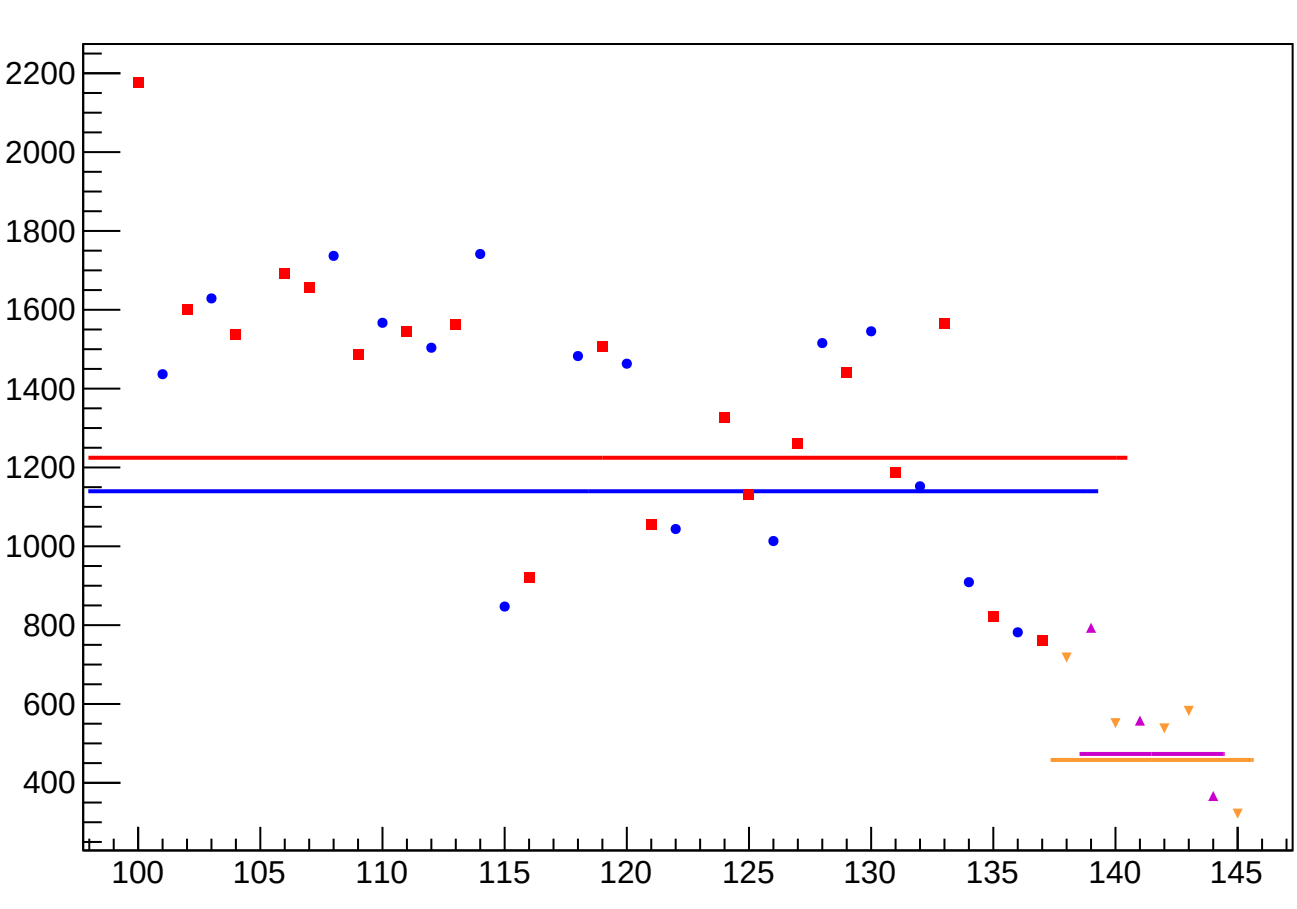
Left: -141.016+/-195.023 $\chi^2$/NDF: 11.9/7

Right: -168.117+/-320.052 $\chi^2$/NDF: 38.2/34

In: -323.802+/-253.871 $\chi^2$/NDF:23.7/18

Out: -15.815+/-220.654 $\chi^2$/NDF:25.6/23

All: -148.354+/-166.540 $\chi^2$/NDF: 50.1/42




Right In: 1139.658+/-0.313 $\chi^2$/NDF: 1093410.3/15

Left Out: 458.080+/-0.177 $\chi^2$/NDF:628679.0/4

Right Out: 1224.637+/-0.328 $\chi^2$/NDF: 922388.4/18

Left In: 473.261+/-0.219 $\chi^2$/NDF:457026.7/2

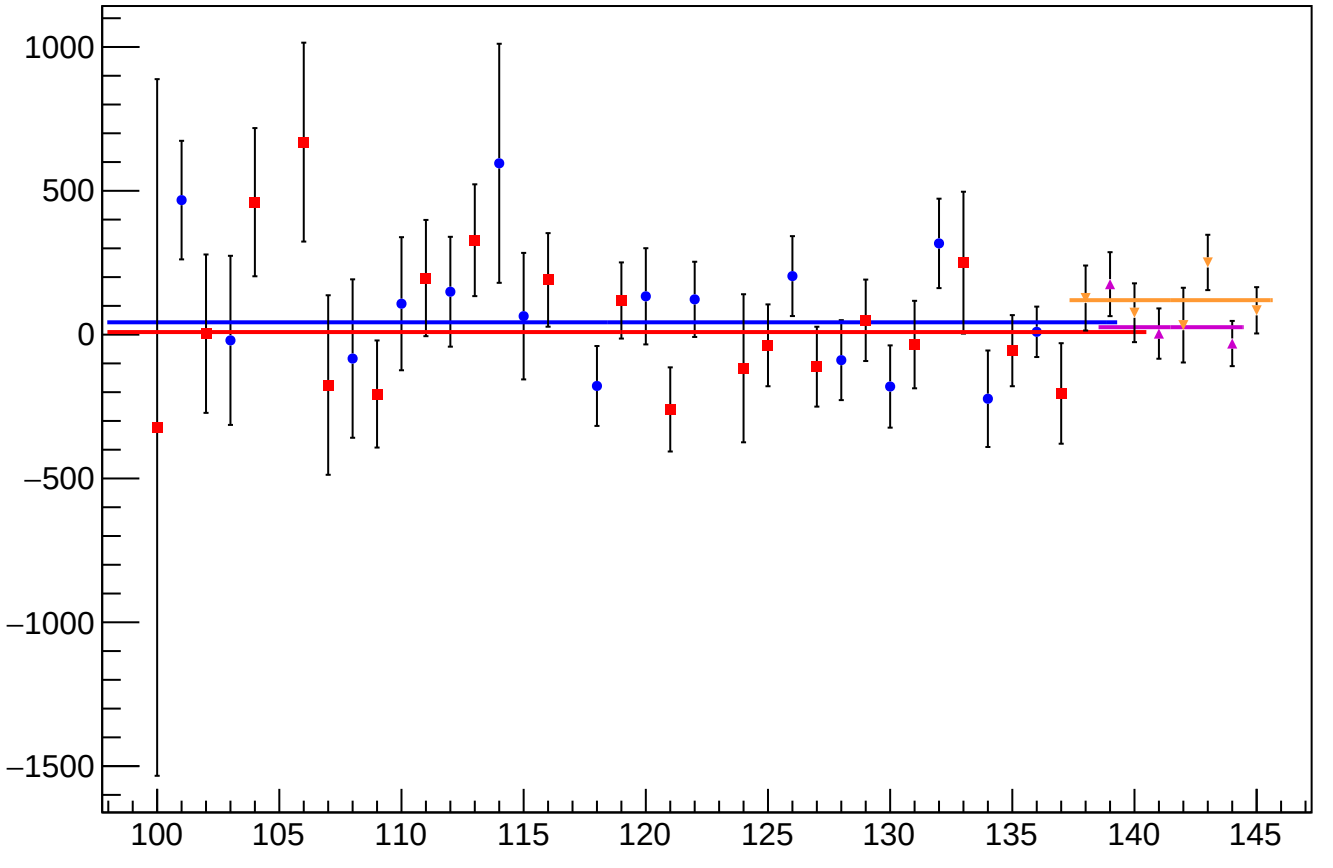
Left: 464.093+/-0.138 $\chi^2$/NDF: 1088604.7/7

Right: 1180.226+/-0.226 $\chi^2$/NDF: 2050976.5/34

In: 692.386+/-0.180 $\chi^2$/NDF:4591787.5/18

Out: 632.022+/-0.156 $\chi^2$/NDF:5785410.0/23

All: 657.999+/-0.118 $\chi^2$/NDF: 10441610.8/42




Right In: 42.914+/-39.948 $\chi^2$/NDF: 20.3/15

Left Out: 119.848+/-44.910 $\chi^2$/NDF:2.7/4

Right Out: 8.986+/-41.060 $\chi^2$/NDF: 21.3/18

Left In: 25.945+/-51.742 $\chi^2$/NDF:2.4/2

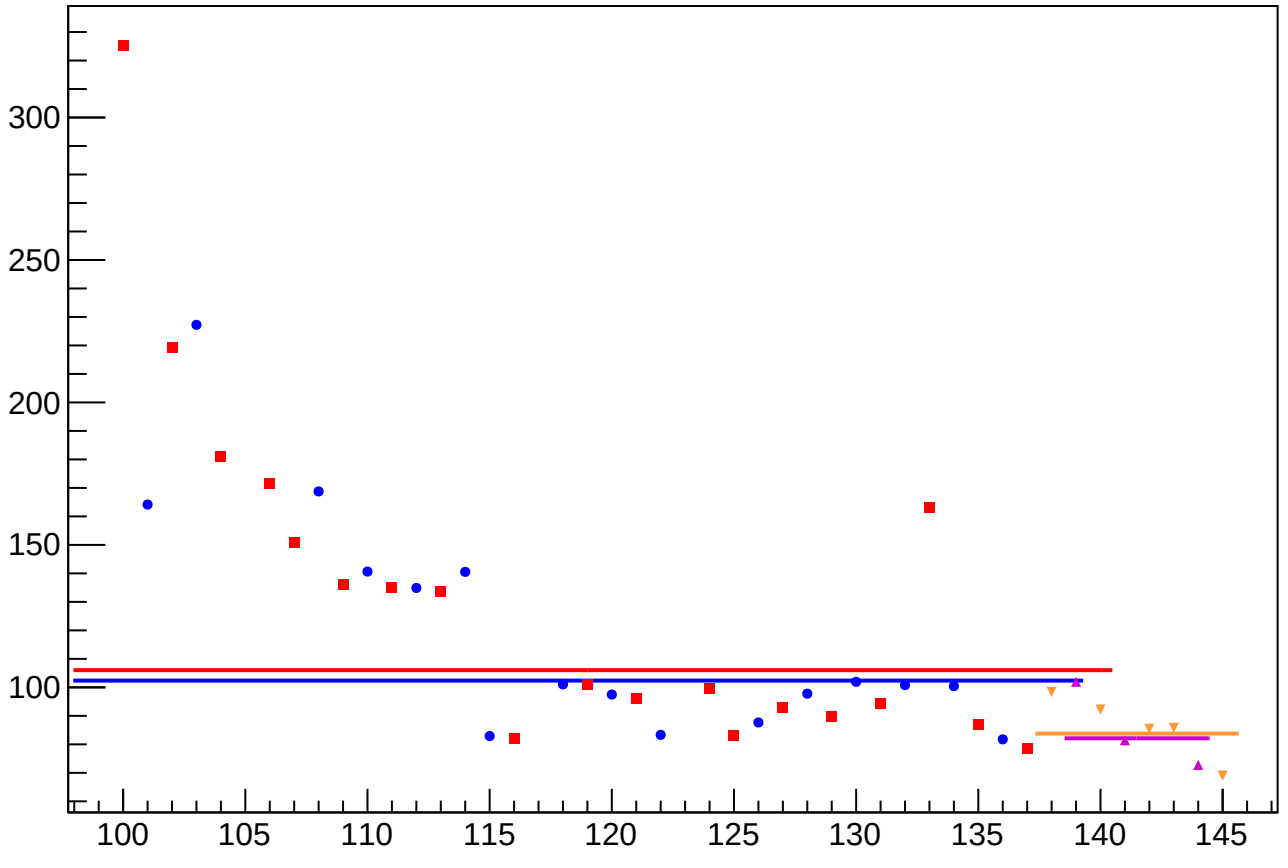
Left: 79.502+/-33.916 $\chi^2$/NDF: 7.0/7

Right: 26.416+/-28.632 $\chi^2$/NDF: 42.0/34

In: 36.577+/-31.620 $\chi^2$/NDF:22.8/18

Out: 59.462+/-30.303 $\chi^2$/NDF:27.3/23

All: 48.506+/-21.879 $\chi^2$/NDF: 50.4/42




Right In: 102.378+/-0.028 $\chi^2$/NDF: 982307.0/15

Left Out: 83.766+/-0.032 $\chi^2$/NDF:115627.1/4

Right Out: 106.032+/-0.029 $\chi^2$/NDF: 1191296.9/18

Left In: 82.127+/-0.037 $\chi^2$/NDF:92022.4/2

Left: 83.062+/-0.024 $\chi^2$/NDF: 208793.6/7

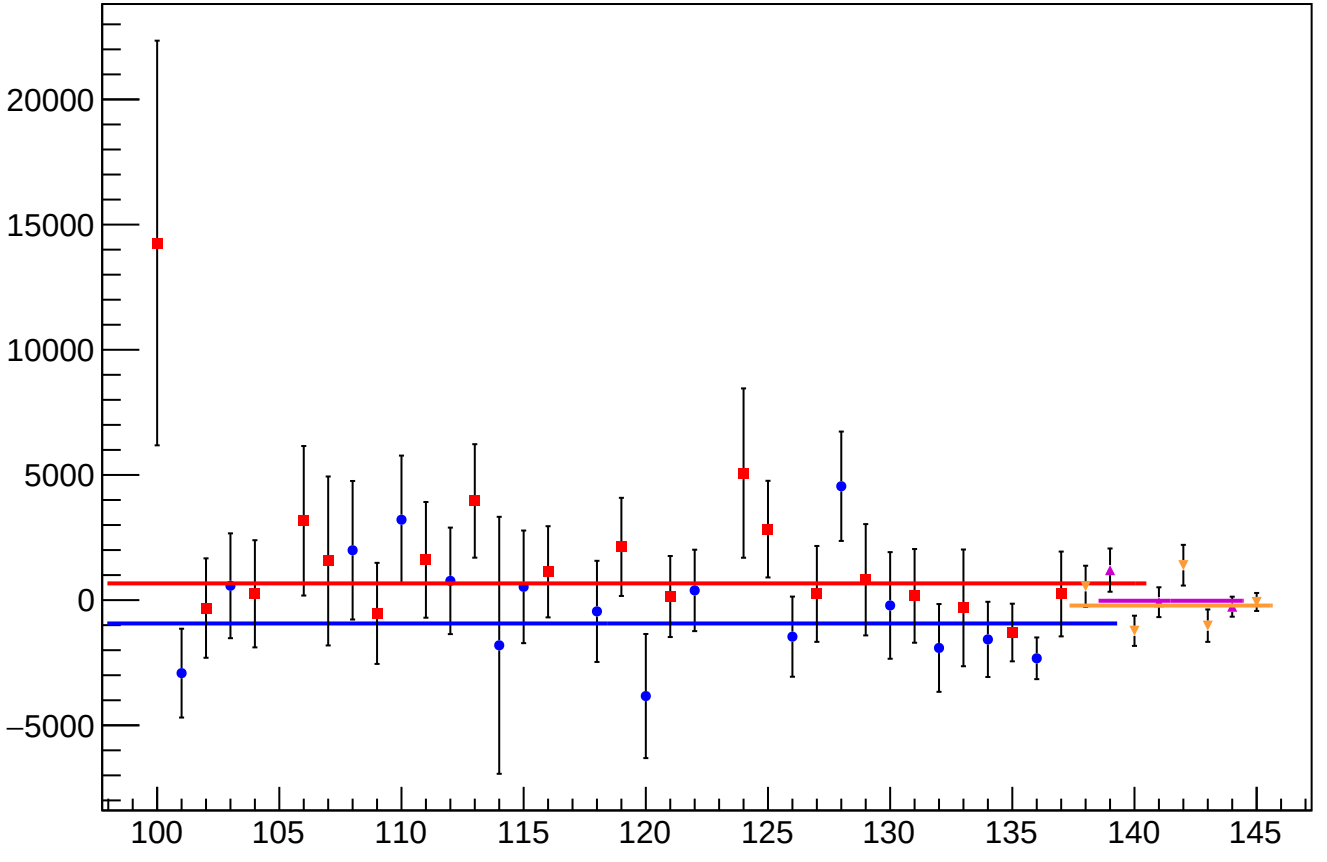
Right: 104.155+/-0.020 $\chi^2$/NDF: 2181741.7/34

In: 94.815+/-0.022 $\chi^2$/NDF:1266269.8/18

Out: 95.894+/-0.021 $\chi^2$/NDF:1574714.1/23

All: 95.378+/-0.015 $\chi^2$/NDF: 2842197.9/42

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: -216.682+/-250.955 $\chi^2$/NDF:9.3/4

Right Out: 668.522+/-463.212 $\chi^2$/NDF: 13.5/18

Left In: -25.650+/-309.880 $\chi^2$/NDF:2.4/2

Left: -141.018+/-195.023 $\chi^2$/NDF: 11.9/7

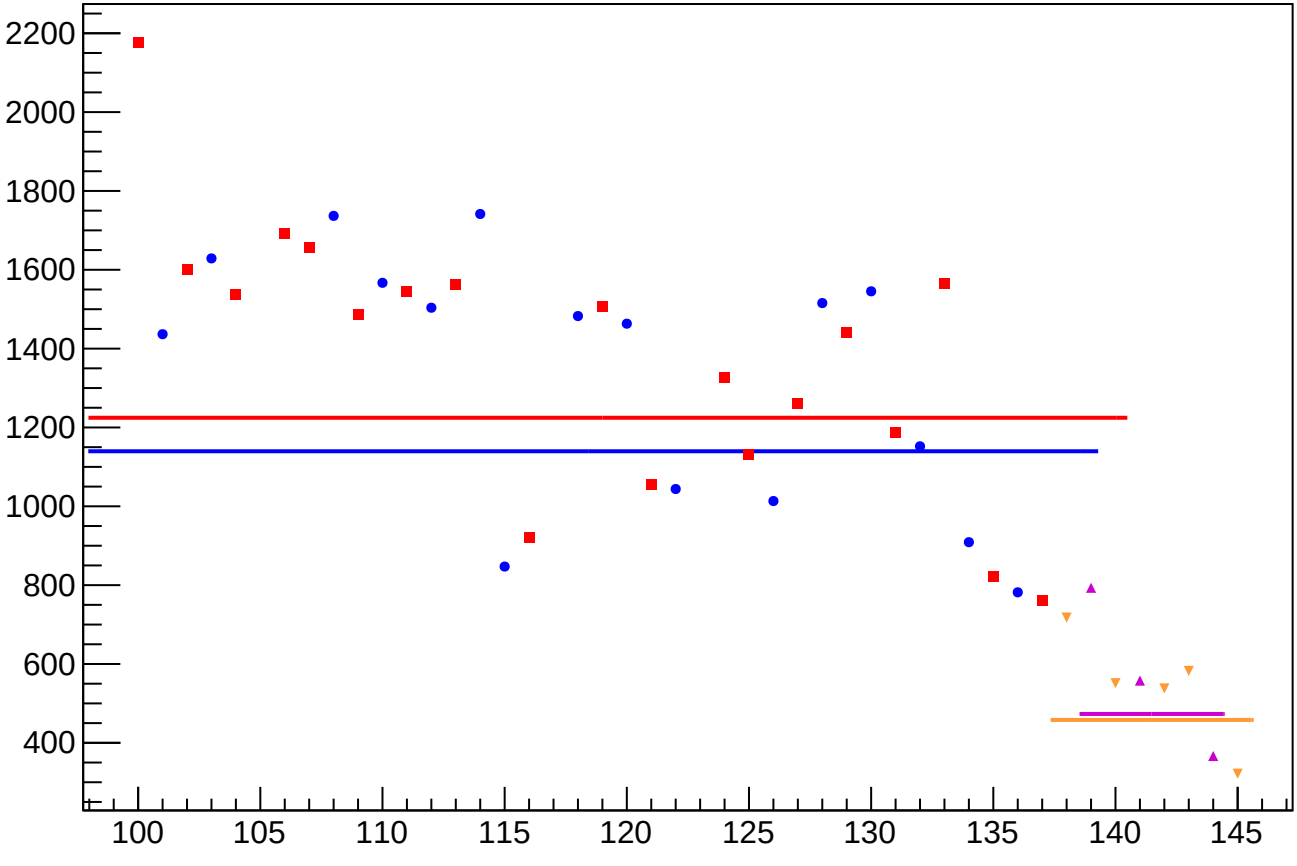
Right: -168.114+/-320.051 $\chi^2$/NDF: 38.2/34

In: -323.801+/-253.871 $\chi^2$/NDF:23.7/18

Out: -15.817+/-220.653 $\chi^2$/NDF:25.6/23

All: -148.355+/-166.540 $\chi^2$/NDF: 50.1/42

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: 458.078+/-0.177 $\chi^2$/NDF:628686.8/4

Right Out: 1224.635+/-0.328 $\chi^2$/NDF: 922378.0/18

Left In: 473.260+/-0.219 $\chi^2$/NDF:457028.2/2

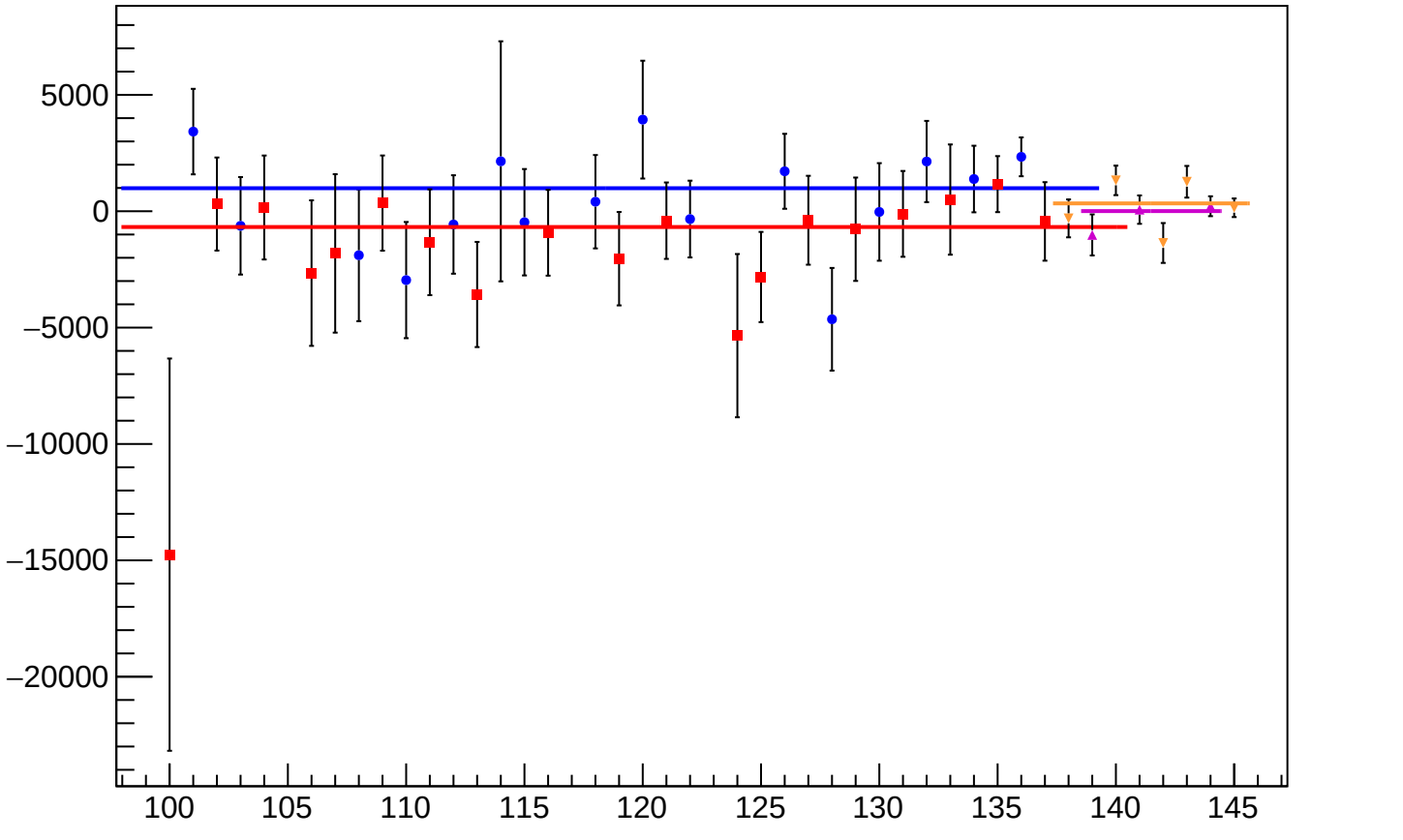
Left: 464.092+/-0.138 $\chi^2$/NDF: 1088614.3/7

Right: 1180.225+/-0.226 $\chi^2$/NDF: 2050952.9/34

In: 692.385+/-0.180 $\chi^2$/NDF:4591783.7/18

Out: 632.020+/-0.156 $\chi^2$/NDF:5785422.8/23

All: 657.998+/-0.118 $\chi^2$/NDF: 10441621.6/42




Right In: 989.322+/-442.634 $\chi^2$/NDF: 19.0/15

Left Out: 337.141+/-269.545 $\chi^2$/NDF:9.1/4

Right Out: -677.628+/-469.652 $\chi^2$/NDF: 11.9/18

Left In: 6.250+/-325.343 $\chi^2$/NDF:1.6/2

Left: 202.461+/-207.563 $\chi^2$/NDF: 11.3/7

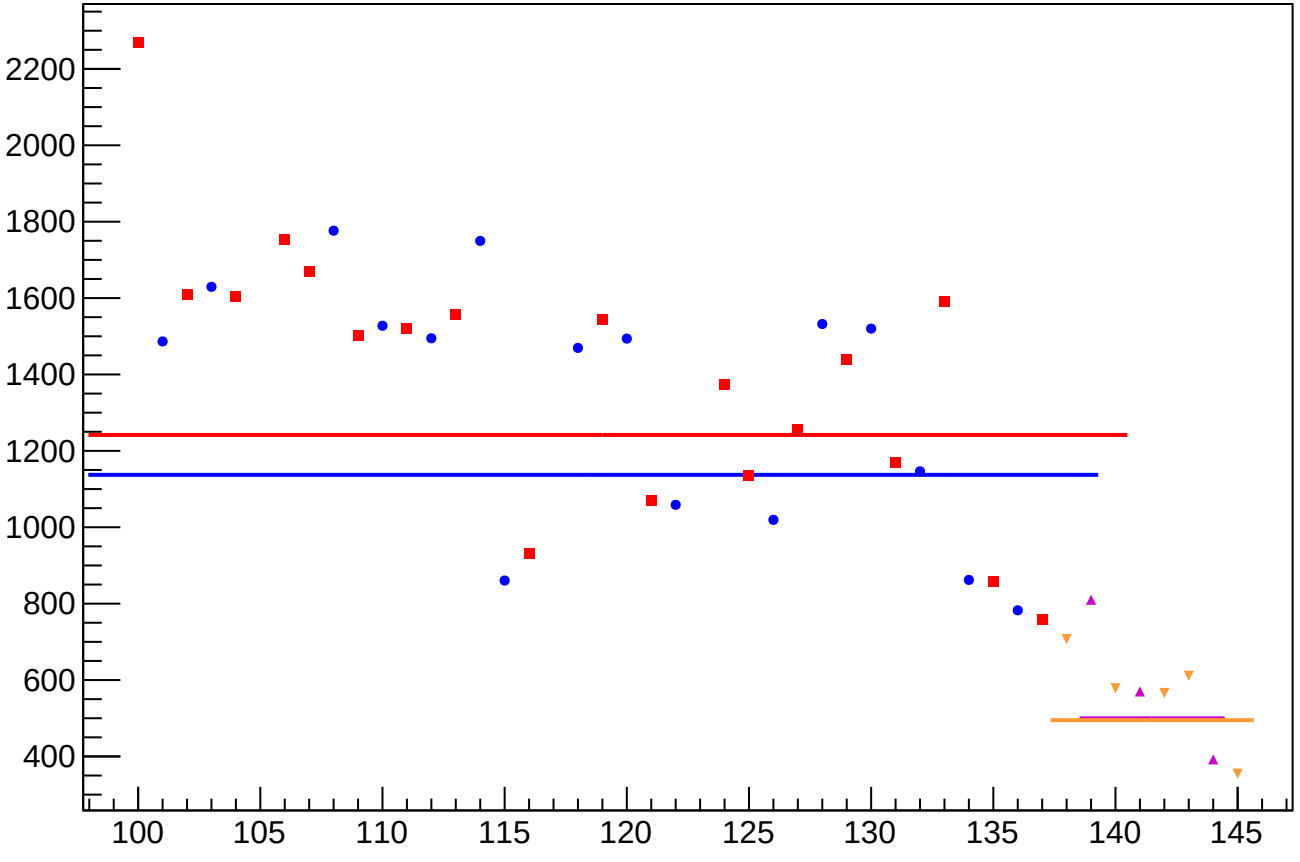
Right: 205.171+/-322.118 $\chi^2$/NDF: 37.6/34

In: 351.066+/-262.148 $\chi^2$/NDF:23.8/18

Out: 85.706+/-233.779 $\chi^2$/NDF:24.5/23

All: 203.256+/-174.478 $\chi^2$/NDF: 48.9/42

# asym_sam_3726_avg_rms vs Slug, Sign Corrected




Right In: 1137.220+/-0.313 $\chi^2$/NDF: 1123685.6/15

Left Out: 494.880+/-0.191 $\chi^2$/NDF:488286.3/4

Right Out: 1241.709+/-0.332 $\chi^2$/NDF: 899417.9/18

Left In: 499.789+/-0.230 $\chi^2$/NDF:400790.1/2

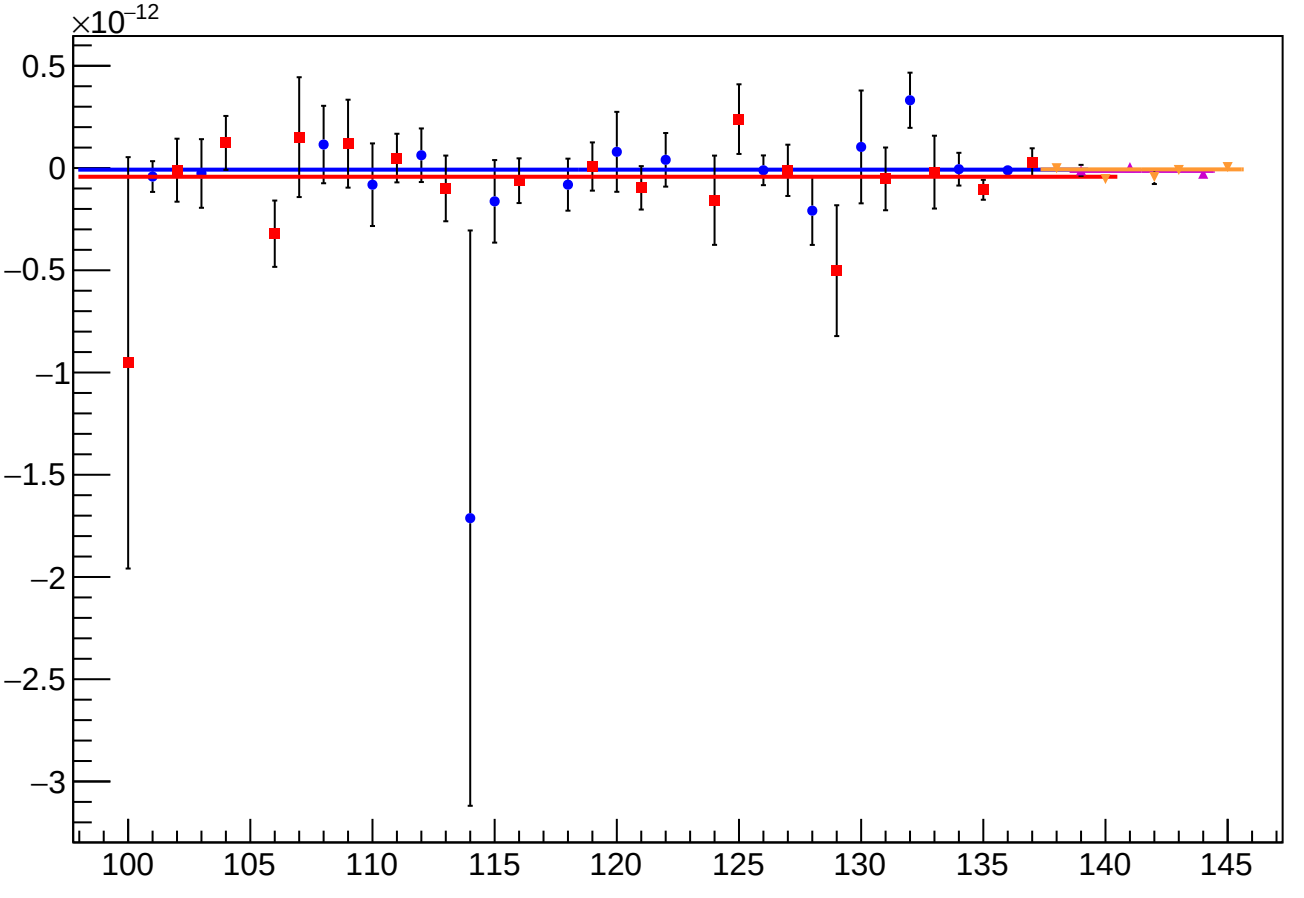
Left: 496.878+/-0.147 $\chi^2$/NDF: 889346.4/7

Right: 1186.373+/-0.228 $\chi^2$/NDF: 2075531.5/34

In: 723.370+/-0.185 $\chi^2$/NDF:4217346.3/18

Out: 679.926+/-0.165 $\chi^2$/NDF:5191940.3/23

All: 699.171+/-0.123 $\chi^2$/NDF: 9439882.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.7/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.5/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.5/2

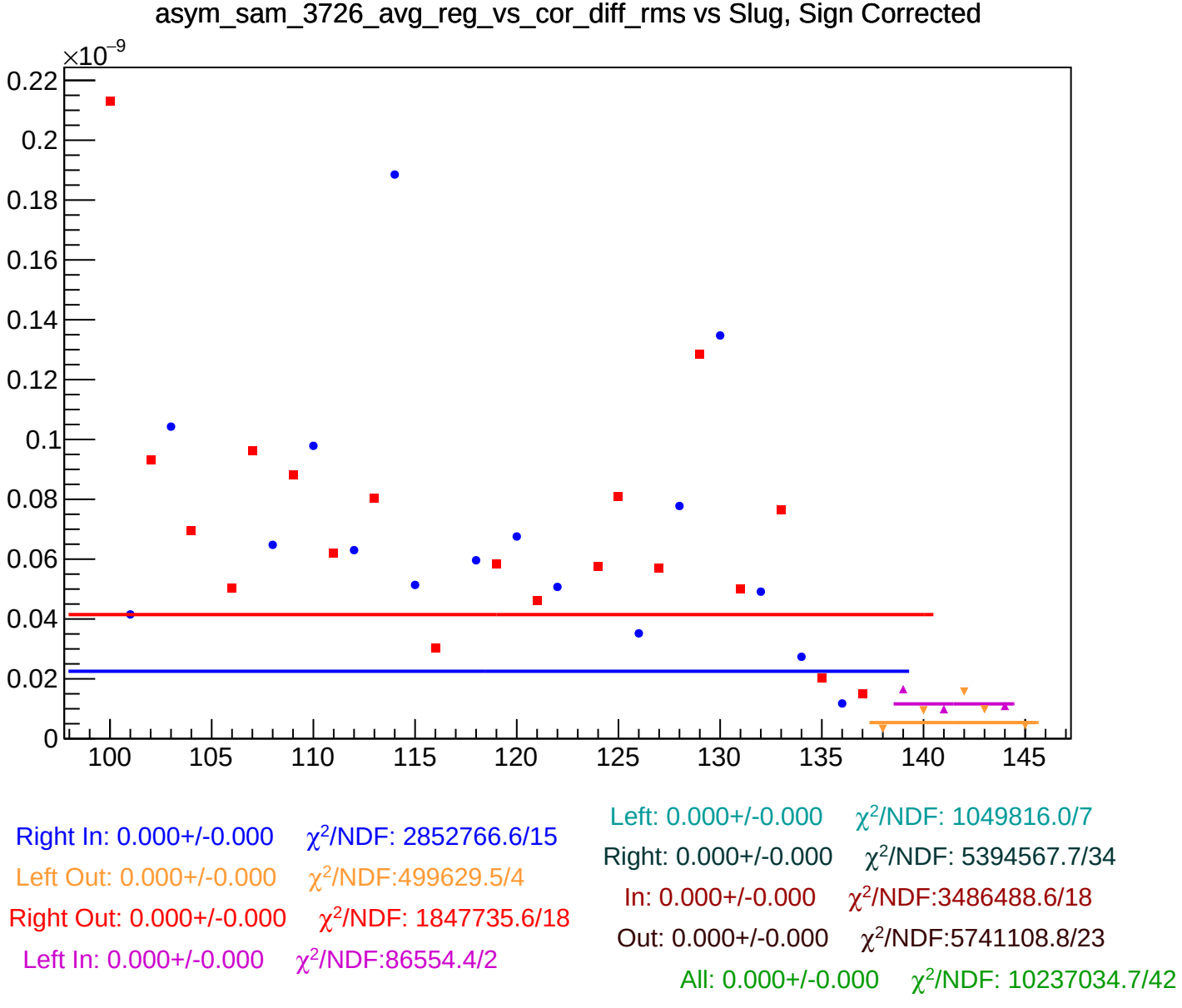
Left: -0.000+/-0.000 $\chi^2$/NDF: 11.9/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 28.4/34

In: -0.000+/-0.000 $\chi^2$/NDF:13.4/18

Out: -0.000+/-0.000 $\chi^2$/NDF:27.2/23

All: -0.000+/-0.000 $\chi^2$/NDF: 40.7/42


asym_sam_3726_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.22
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0.16
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135
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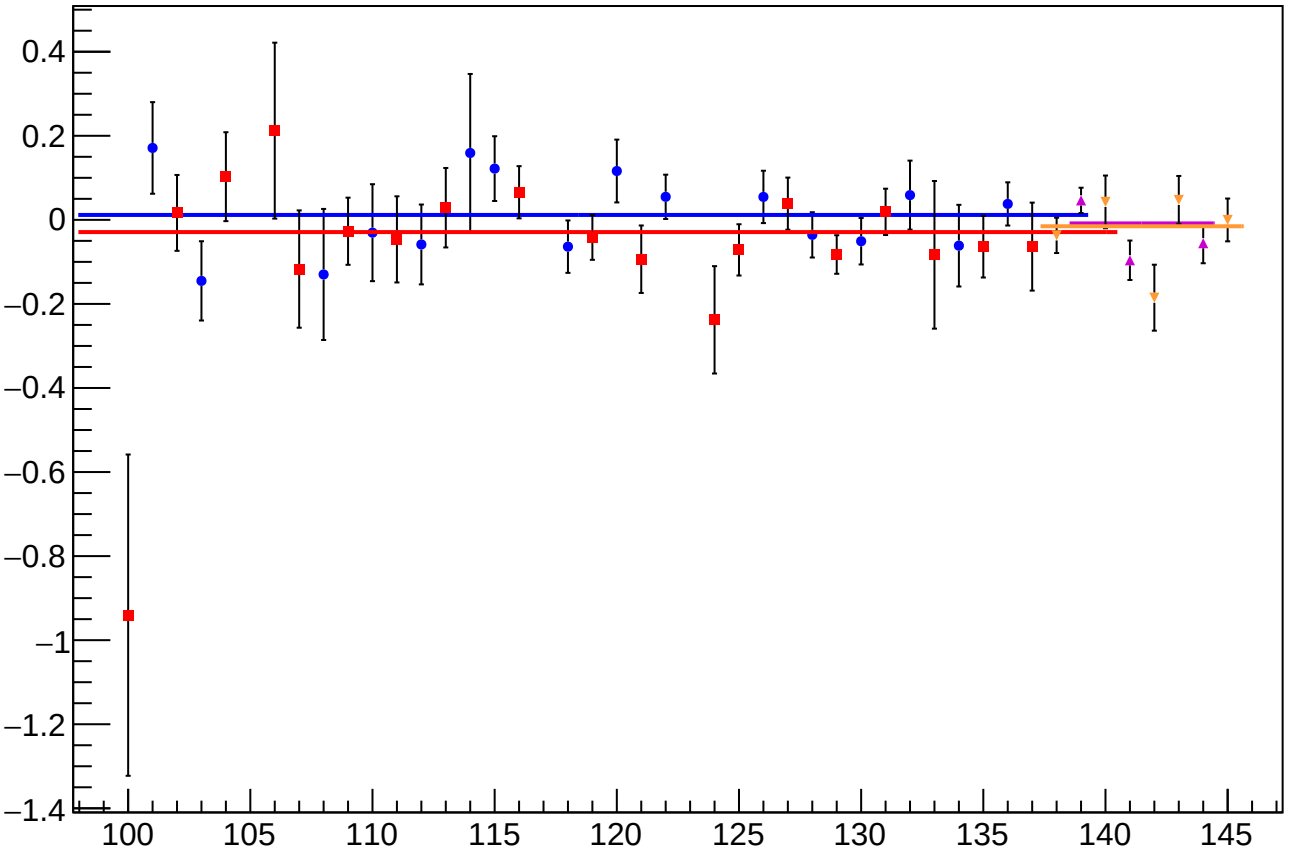
145
Right In: 0.000+/-0.000 χ²/NDF: 2852766.6/15
Left Out: 0.000+/-0.000 χ²/NDF:499629.5/4
Right Out: 0.000+/-0.000 χ²/NDF: 1847735.6/18
Left In: 0.000+/-0.000 χ²/NDF:86554.4/2
Left: 0.000+/-0.000 χ²/NDF: 1049816.0/7
Right: 0.000+/-0.000 χ²/NDF: 5394567.7/34
In: 0.000+/-0.000 χ²/NDF:3486488.6/18
Out: 0.000+/-0.000 χ²/NDF:5741108.8/23
All: 0.000+/-0.000 χ²/NDF: 10237034.7/42




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: -0.015+/-0.024 $\chi^2$/NDF:7.1/4

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: -0.008+/-0.022 $\chi^2$/NDF:7.8/2

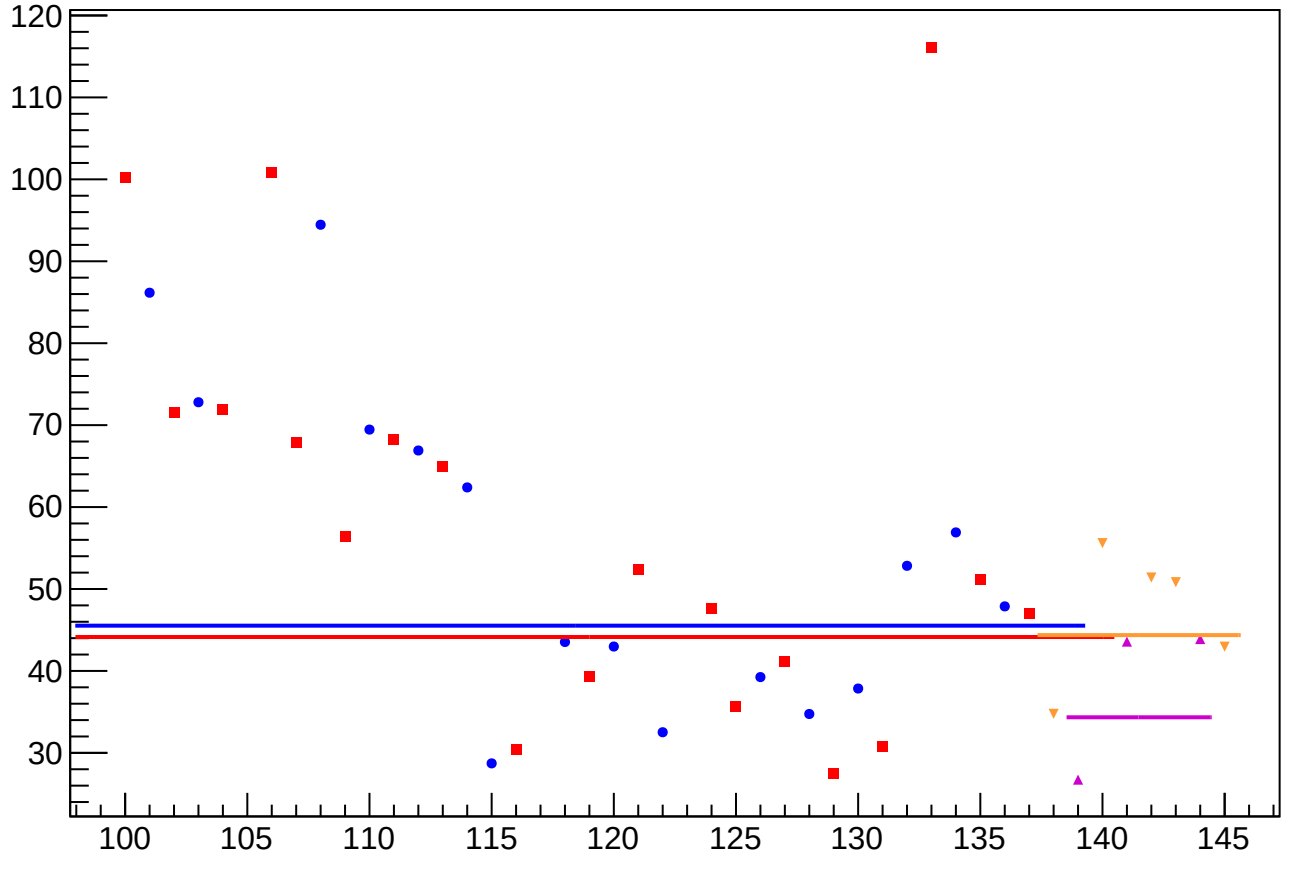
Left: -0.012+/-0.017 $\chi^2$/NDF: 14.9/7

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.004+/-0.014 $\chi^2$/NDF:25.1/18

Out: -0.024+/-0.014 $\chi^2$/NDF:26.9/23

All: -0.010+/-0.010 $\chi^2$/NDF: 53.9/42




Right In: 45.525+/-0.013 $\chi^2$/NDF: 1253967.4/15

Left Out: 44.372+/-0.017 $\chi^2$/NDF:211914.3/4

Right Out: 44.141+/-0.013 $\chi^2$/NDF: 1743430.9/18

Left In: 34.342+/-0.016 $\chi^2$/NDF:285305.6/2

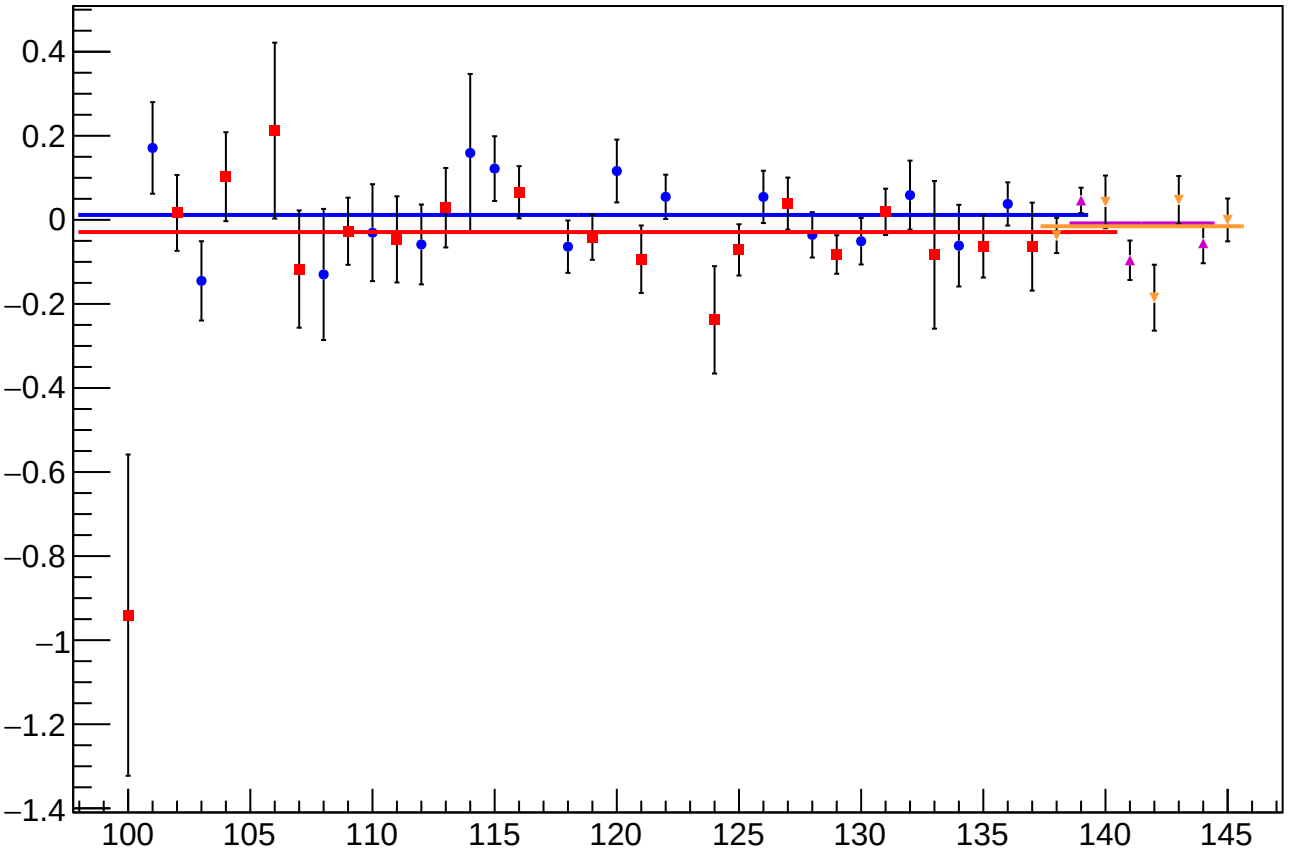
Left: 38.920+/-0.012 $\chi^2$/NDF: 680531.1/7

Right: 44.816+/-0.009 $\chi^2$/NDF: 3003242.5/34

In: 41.039+/-0.010 $\chi^2$/NDF:1838261.9/18

Out: 44.221+/-0.010 $\chi^2$/NDF:1955461.5/23

All: 42.602+/-0.007 $\chi^2$/NDF: 3843239.4/42




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: -0.015+/-0.024 $\chi^2$/NDF:7.1/4

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: -0.008+/-0.022 $\chi^2$/NDF:7.8/2

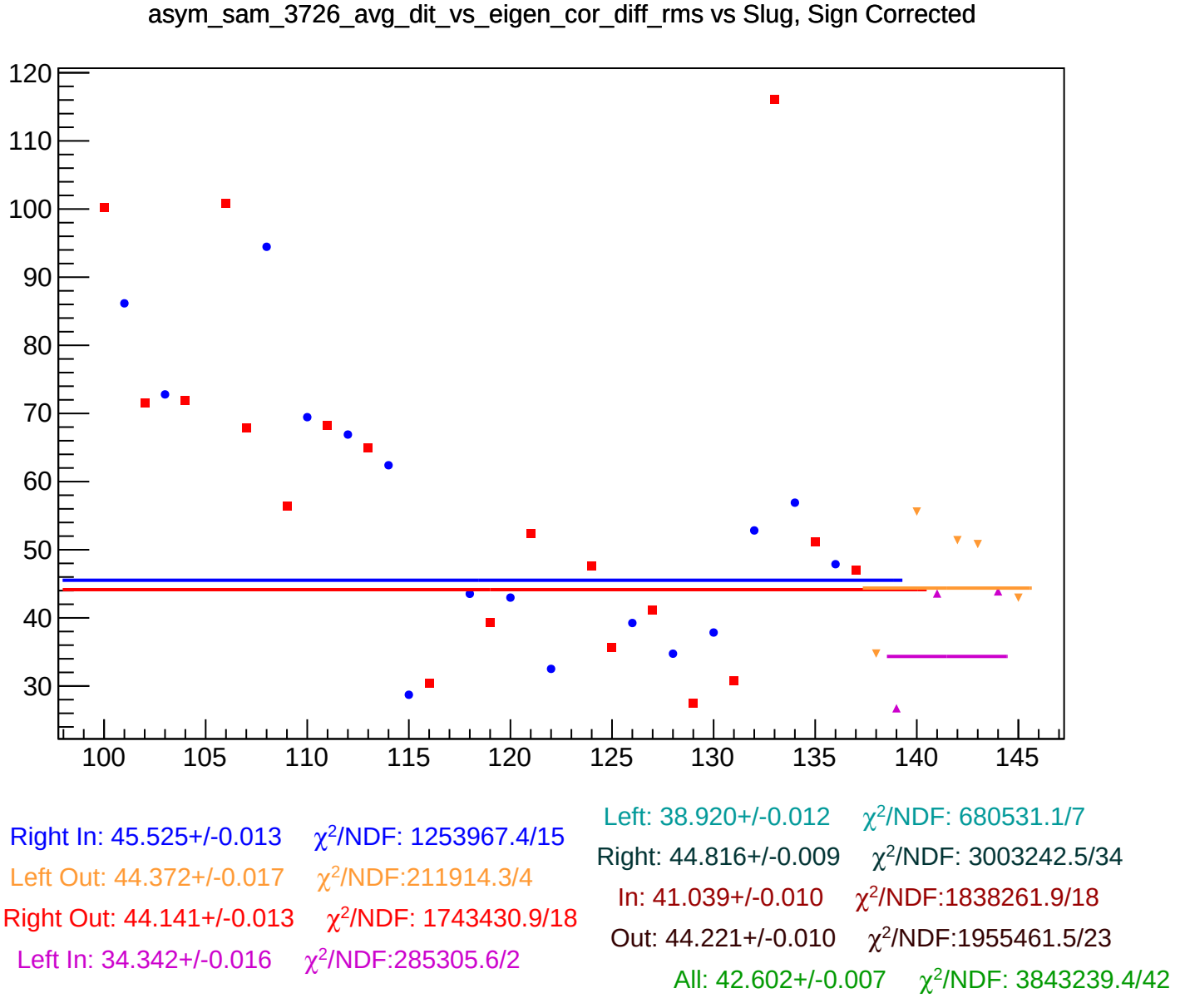
Left: -0.012+/-0.017 $\chi^2$/NDF: 14.9/7

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.004+/-0.014 $\chi^2$/NDF:25.1/18

Out: -0.024+/-0.014 $\chi^2$/NDF:26.9/23

All: -0.010+/-0.010 $\chi^2$/NDF: 53.9/42


asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
120
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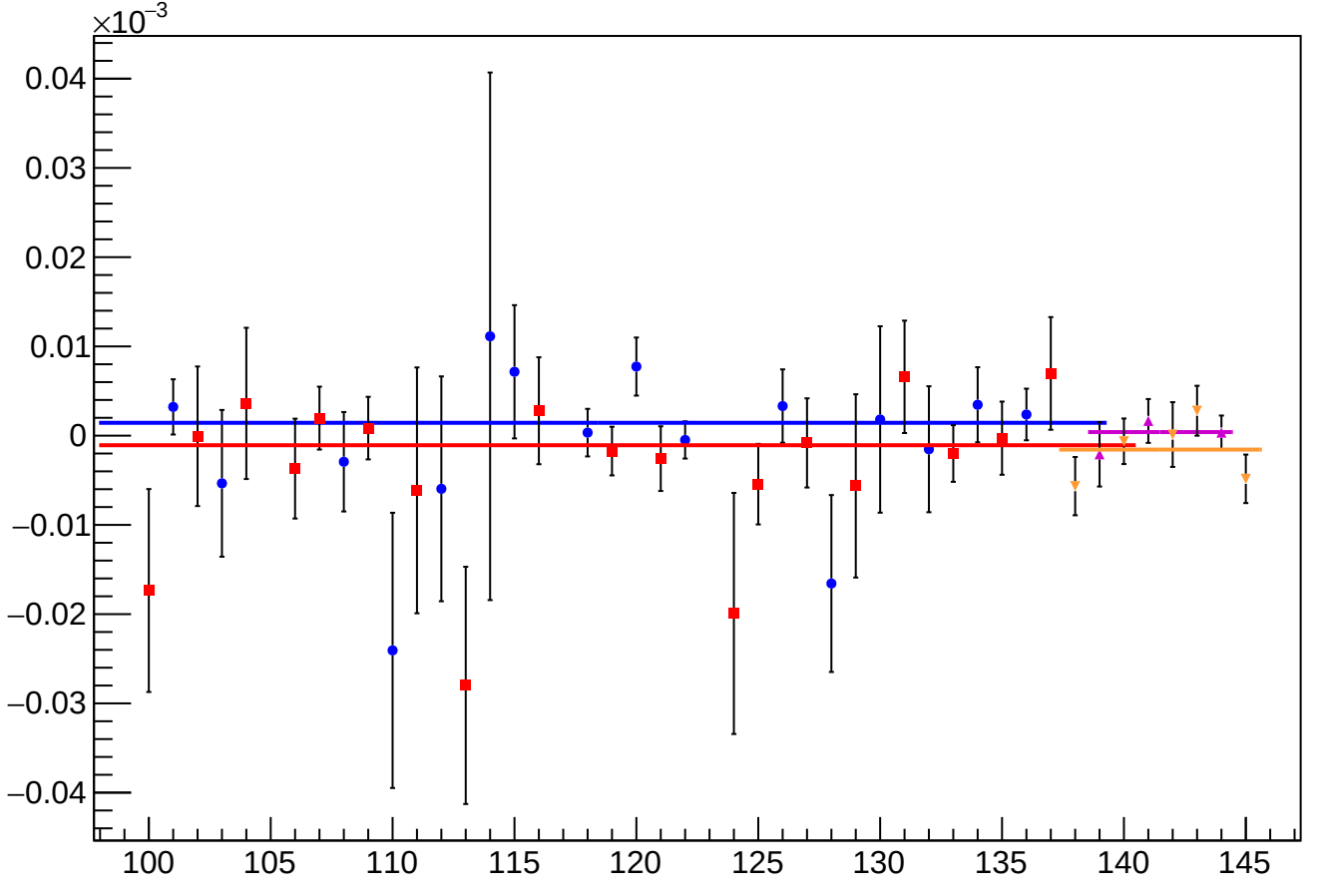
Right In: 45.525+/-0.013 χ²/NDF: 1253967.4/15
Left Out: 44.372+/-0.017 χ²/NDF:211914.3/4
Right Out: 44.141+/-0.013 χ²/NDF: 1743430.9/18
Left In: 34.342+/-0.016 χ²/NDF:285305.6/2
Left: 38.920+/-0.012 χ²/NDF: 680531.1/7
Right: 44.816+/-0.009 χ²/NDF: 3003242.5/34
In: 41.039+/-0.010 χ²/NDF:1838261.9/18
Out: 44.221+/-0.010 χ²/NDF:1955461.5/23
All: 42.602+/-0.007 χ²/NDF: 3843239.4/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:5.8/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.7/2

Left: -0.000+/-0.000 $\chi^2$/NDF: 7.6/7

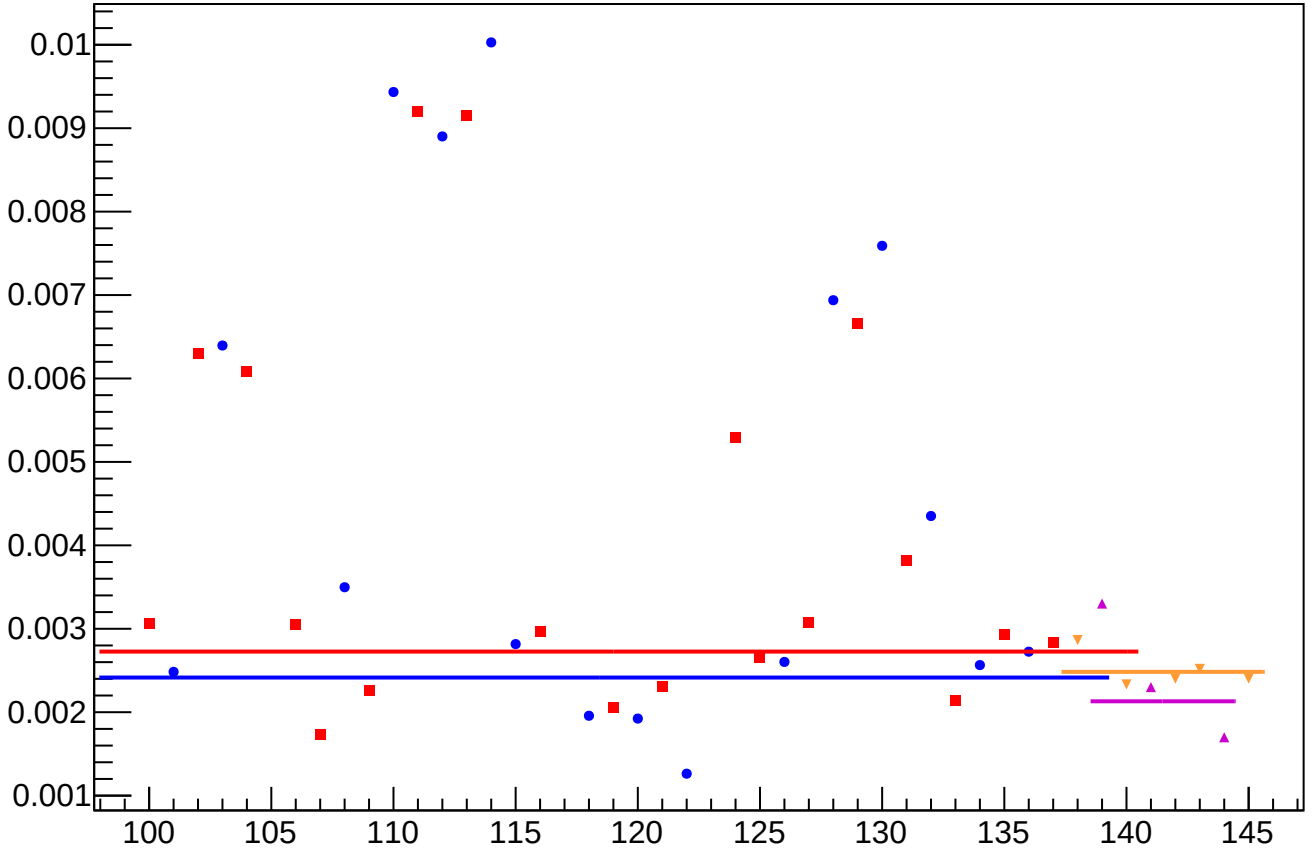
Right: 0.000+/-0.000 $\chi^2$/NDF: 31.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:15.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:20.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 39.9/42

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3432108.8/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:37304.4/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2505080.1/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:322252.7/2

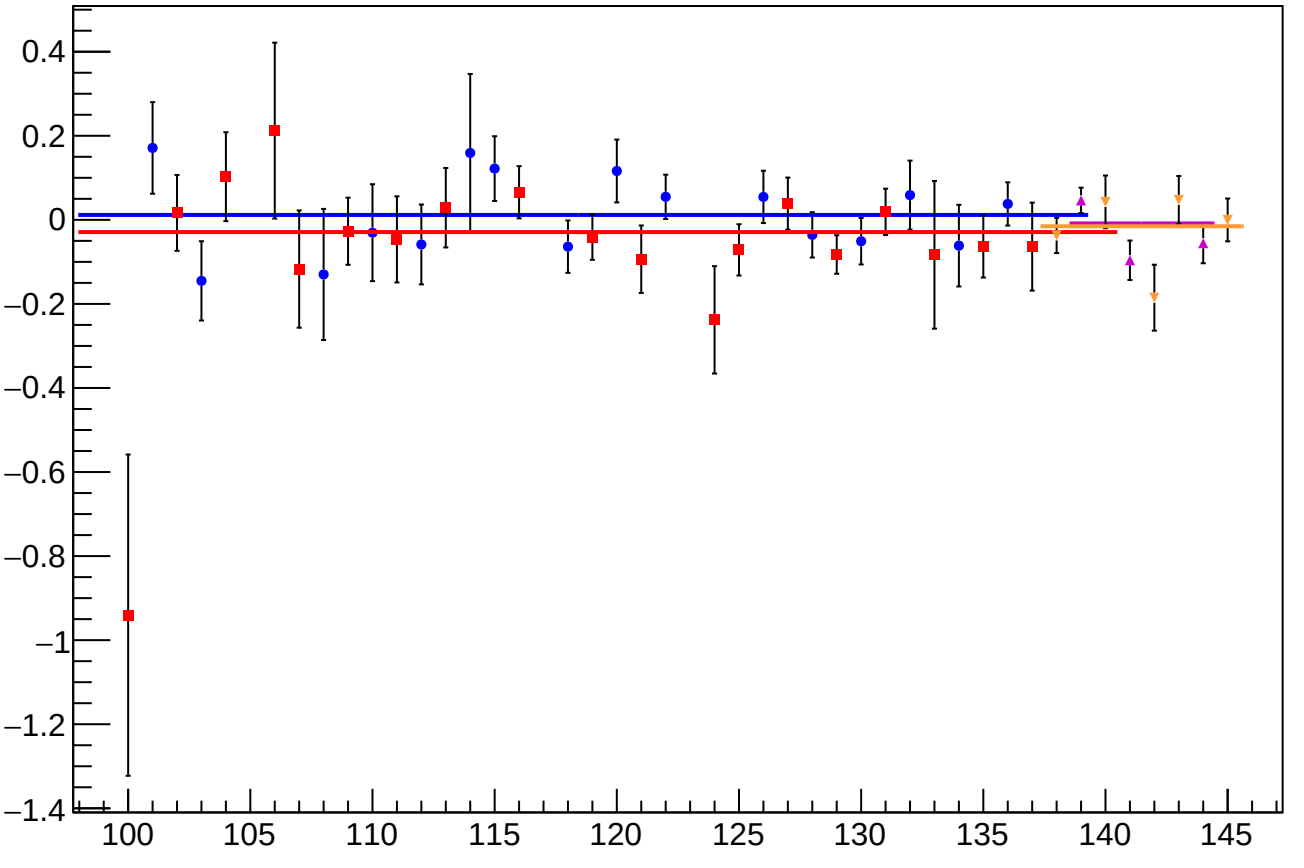
Left: 0.002+/-0.000 $\chi^2$/NDF: 428023.5/7

Right: 0.003+/-0.000 $\chi^2$/NDF: 6019731.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:3808080.1/18

Out: 0.003+/-0.000 $\chi^2$/NDF:2582234.2/23

All: 0.002+/-0.000 $\chi^2$/NDF: 6525912.3/42




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: -0.015+/-0.024 $\chi^2$/NDF:7.1/4

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: -0.008+/-0.022 $\chi^2$/NDF:7.8/2

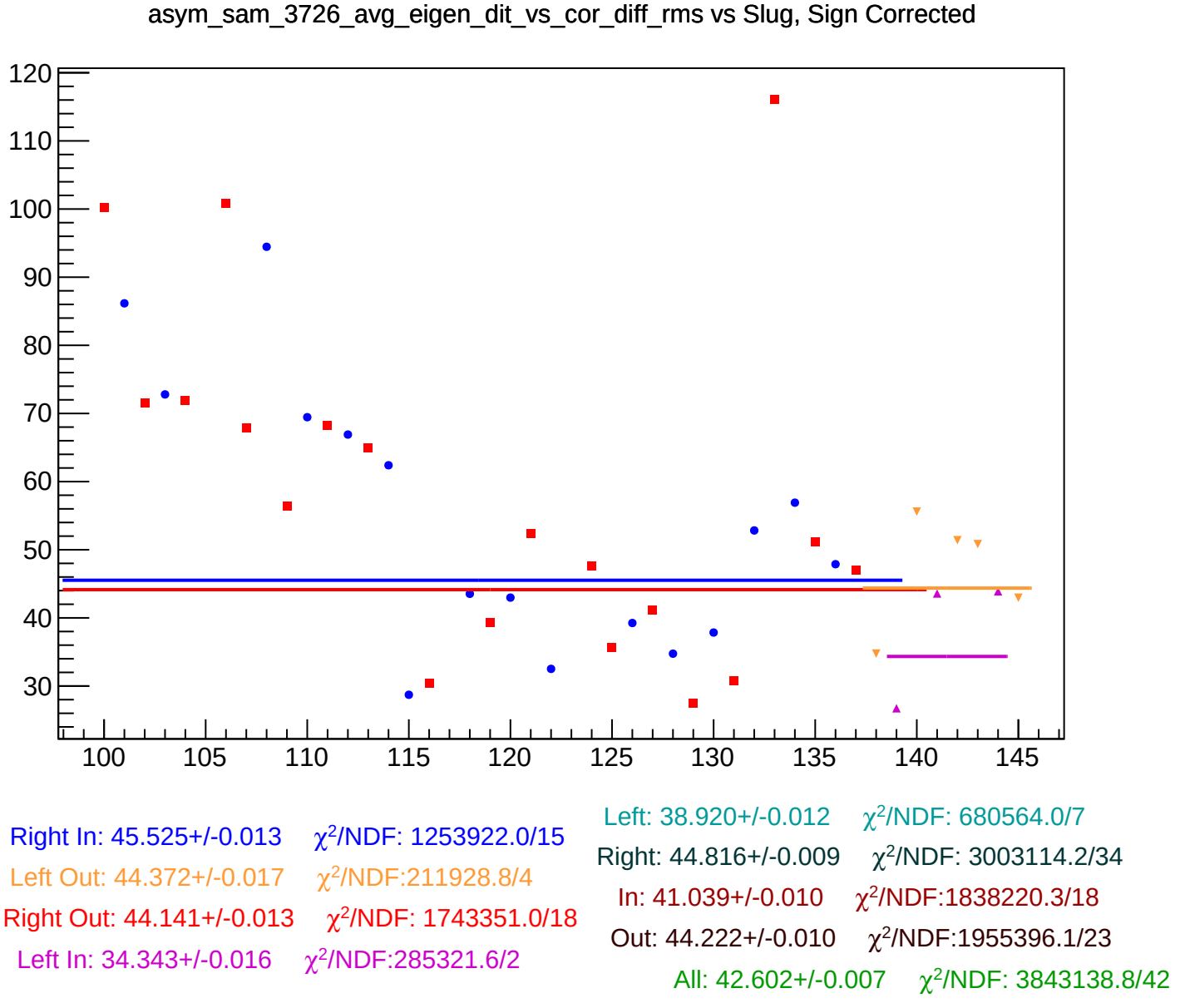
Left: -0.012+/-0.017 $\chi^2$/NDF: 14.9/7

Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

In: 0.004+/-0.014 $\chi^2$/NDF:25.1/18

Out: -0.024+/-0.014 $\chi^2$/NDF:26.9/23

All: -0.010+/-0.010 $\chi^2$/NDF: 53.9/42


asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected
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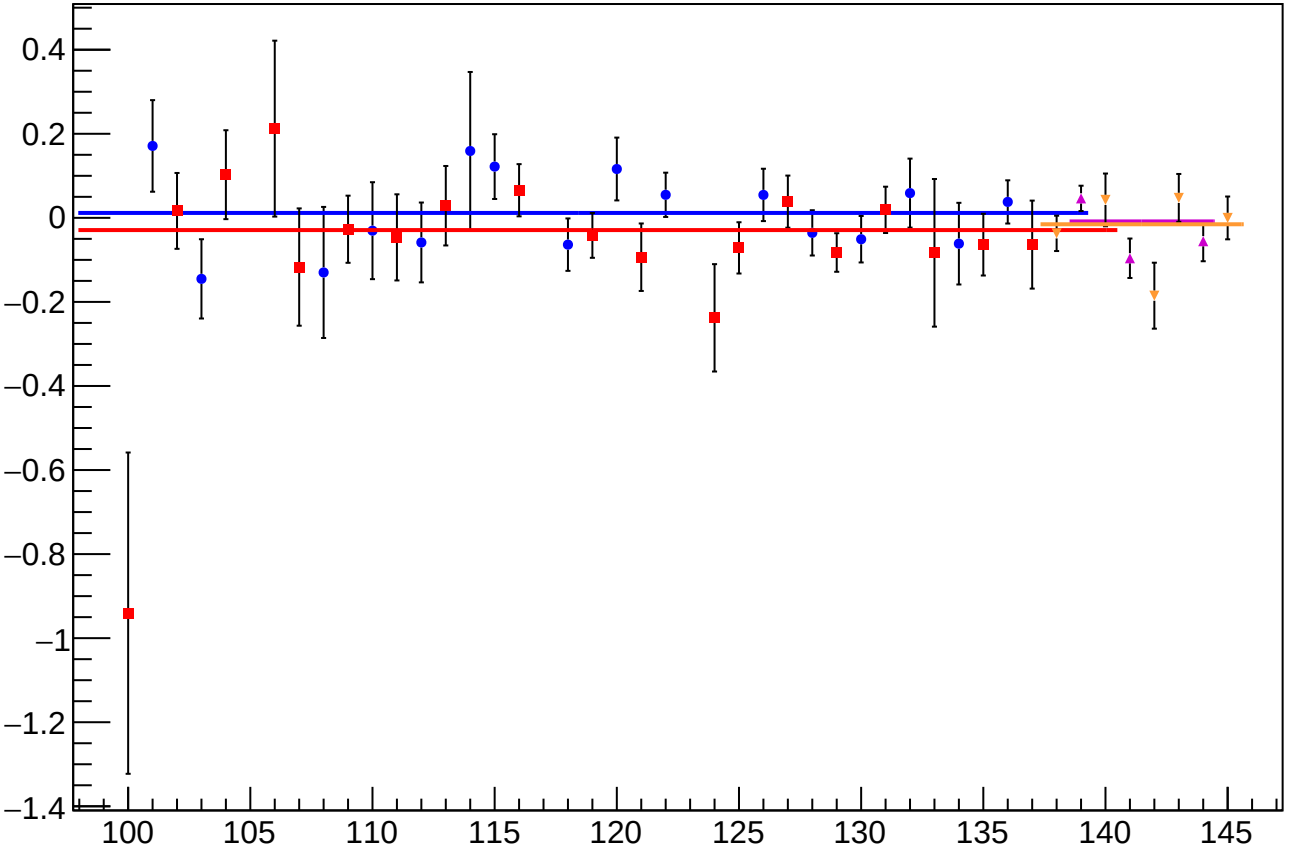
Right In: 45.525+/-0.013 χ²/NDF: 1253922.0/15
Left Out: 44.372+/-0.017 χ²/NDF:211928.8/4
Right Out: 44.141+/-0.013 χ²/NDF: 1743351.0/18
Left In: 34.343+/-0.016 χ²/NDF:285321.6/2
Left: 38.920+/-0.012 χ²/NDF: 680564.0/7
Right: 44.816+/-0.009 χ²/NDF: 3003114.2/34
In: 41.039+/-0.010 χ²/NDF:1838220.3/18
Out: 44.222+/-0.010 χ²/NDF:1955396.1/23
All: 42.602+/-0.007 χ²/NDF: 3843138.8/42

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.012+/-0.018 $\chi^2$/NDF: 16.9/15

Left Out: -0.015+/-0.024 $\chi^2$/NDF:7.1/4

Right Out: -0.029+/-0.018 $\chi^2$/NDF: 19.5/18

Left In: -0.008+/-0.022 $\chi^2$/NDF:7.8/2

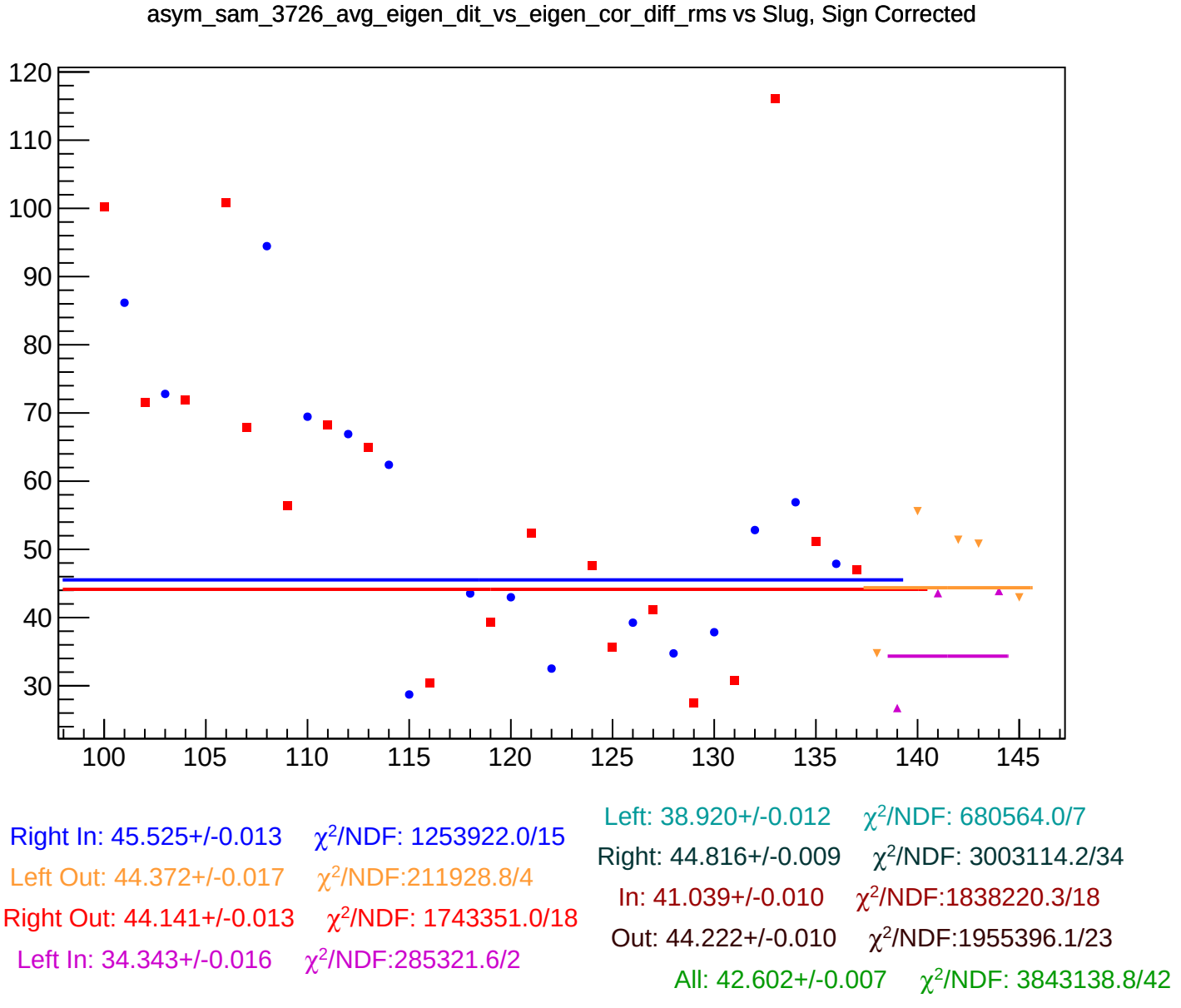
Left: -0.012+/-0.017 $\chi^2$/NDF: 14.9/7

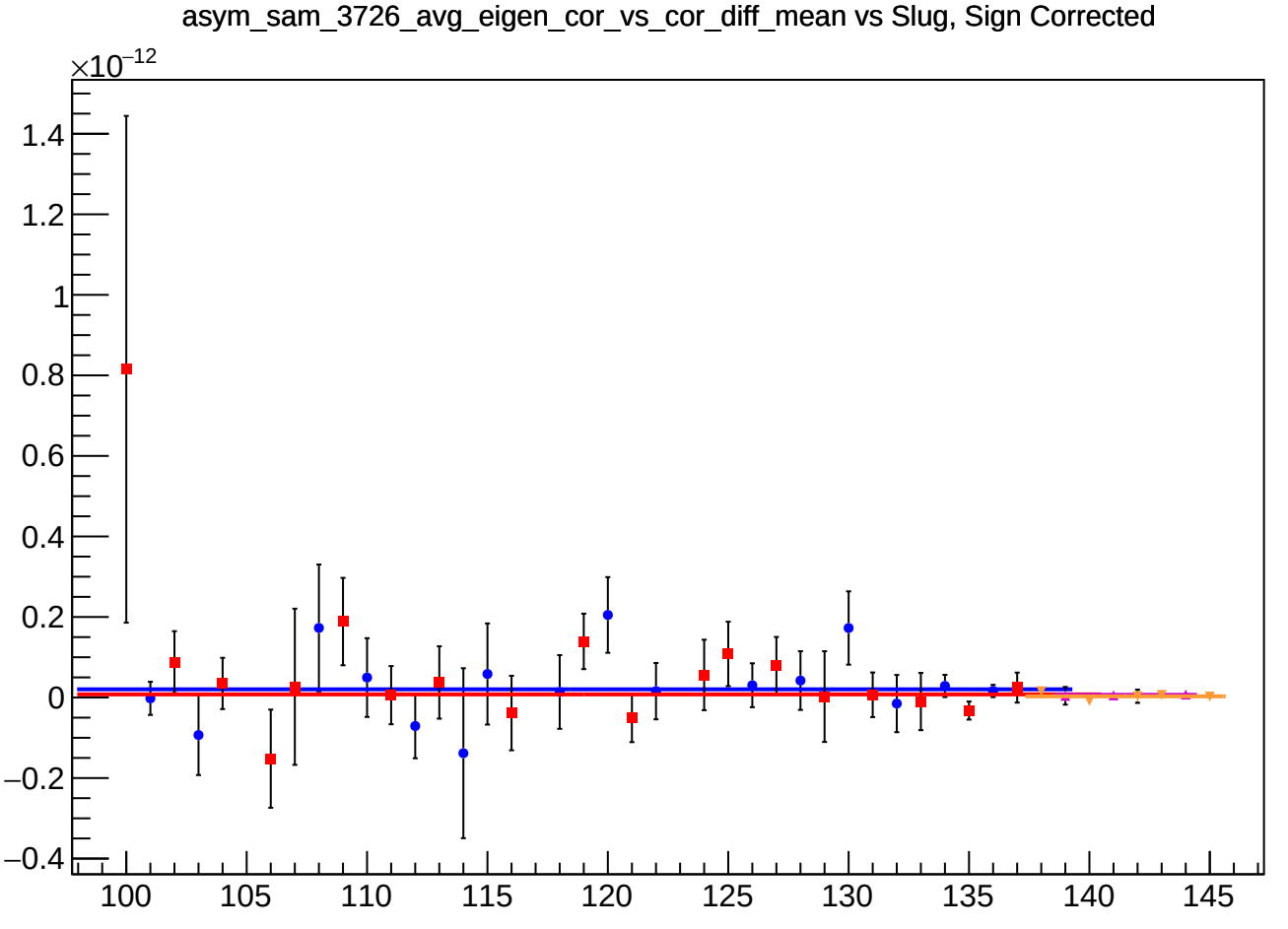
Right: -0.009+/-0.013 $\chi^2$/NDF: 38.9/34

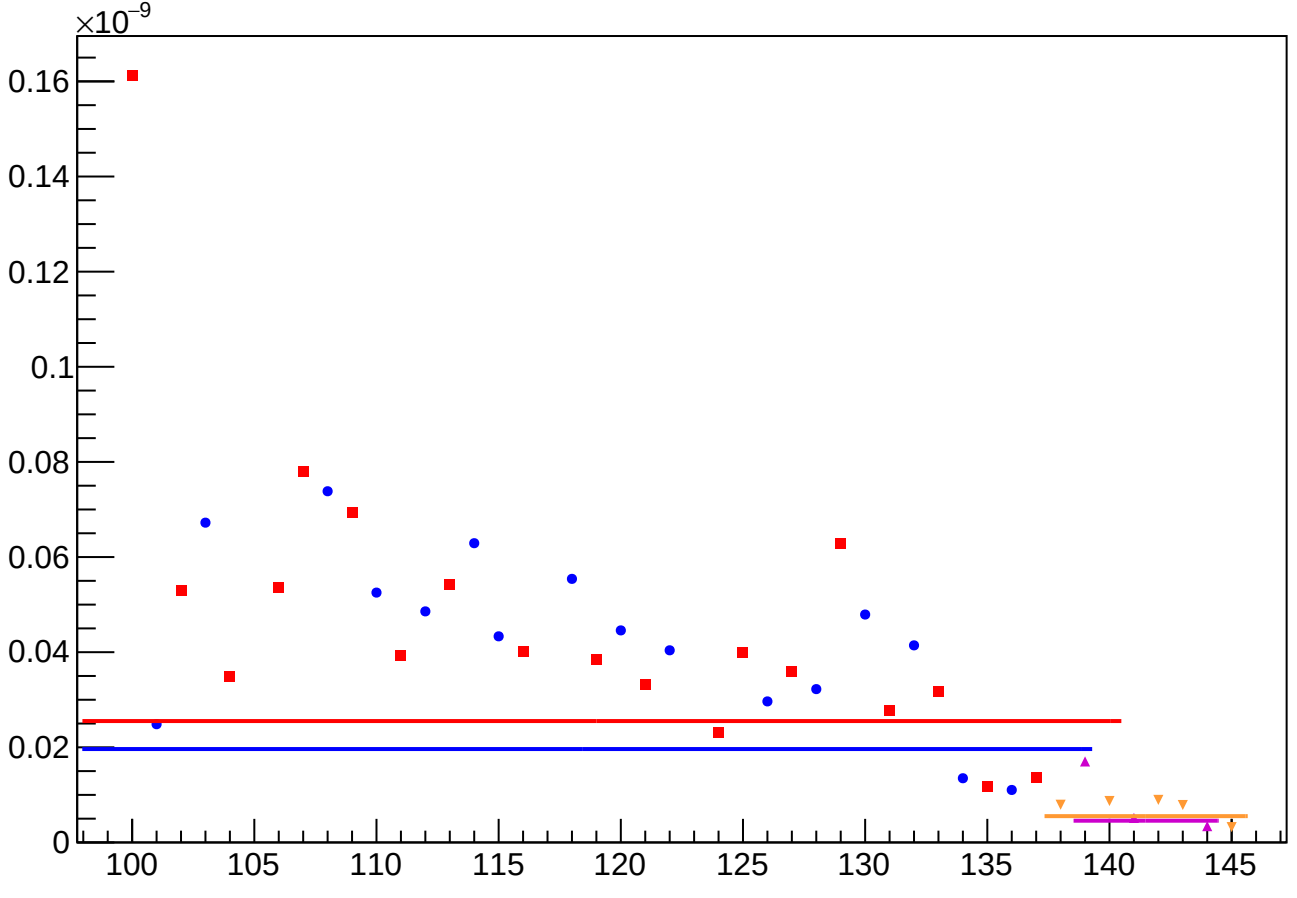
In: 0.004+/-0.014 $\chi^2$/NDF:25.1/18

Out: -0.024+/-0.014 $\chi^2$/NDF:26.9/23

All: -0.010+/-0.010 $\chi^2$/NDF: 53.9/42


asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
120
110
100
90
80
70
60
50
40
30
100
105
110
115
120
125
130
135
140
145
Right In: 45.525+/-0.013 χ²/NDF: 1253922.0/15
Left Out: 44.372+/-0.017 χ²/NDF:211928.8/4
Right Out: 44.141+/-0.013 χ²/NDF: 1743351.0/18
Left In: 34.343+/-0.016 χ²/NDF:285321.6/2
Left: 38.920+/-0.012 χ²/NDF: 680564.0/7
Right: 44.816+/-0.009 χ²/NDF: 3003114.2/34
In: 41.039+/-0.010 χ²/NDF:1838220.3/18
Out: 44.222+/-0.010 χ²/NDF:1955396.1/23
All: 42.602+/-0.007 χ²/NDF: 3843138.8/42


asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 11.8/15
Left Out: 0.000+/-0.000 χ²/NDF:2.2/4
Right Out: 0.000+/-0.000 χ²/NDF: 18.8/18
Left In: 0.000+/-0.000 χ²/NDF:0.1/2
Left: 0.000+/-0.000 χ²/NDF: 2.6/7
Right: 0.000+/-0.000 χ²/NDF: 31.1/34
In: 0.000+/-0.000 χ²/NDF:13.1/18
Out: 0.000+/-0.000 χ²/NDF:21.1/23
All: 0.000+/-0.000 χ²/NDF: 35.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3241093.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:758699.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2703953.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:731057.0/2

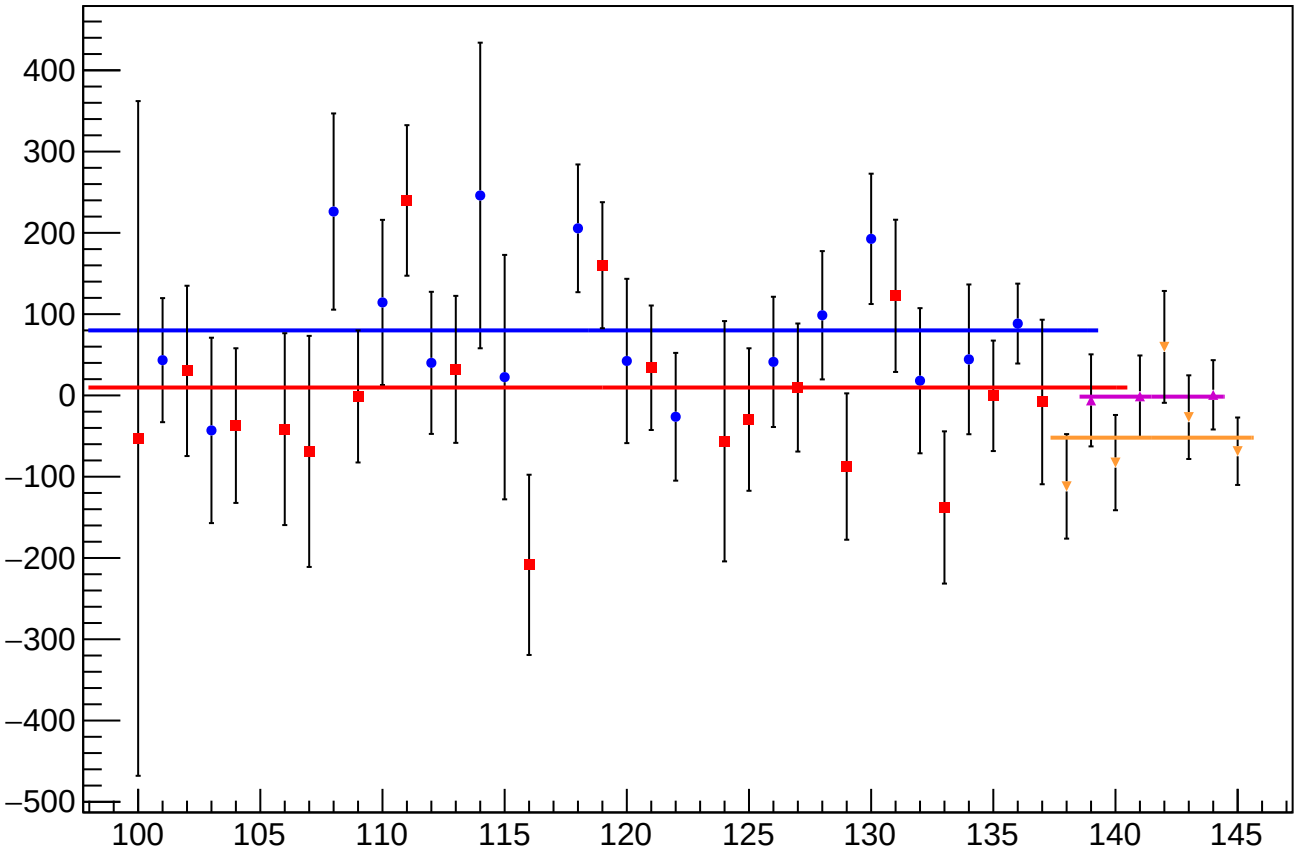
Left: 0.000+/-0.000 $\chi^2$/NDF: 1537532.7/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 6166556.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:7072873.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:7368842.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 14451558.2/42




Right In: 79.993+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -51.981+/-24.235 $\chi^2$/NDF:4.2/4

Right Out: 9.730+/-21.617 $\chi^2$/NDF: 20.3/18

Left In: -1.508+/-28.182 $\chi^2$/NDF:0.0/2

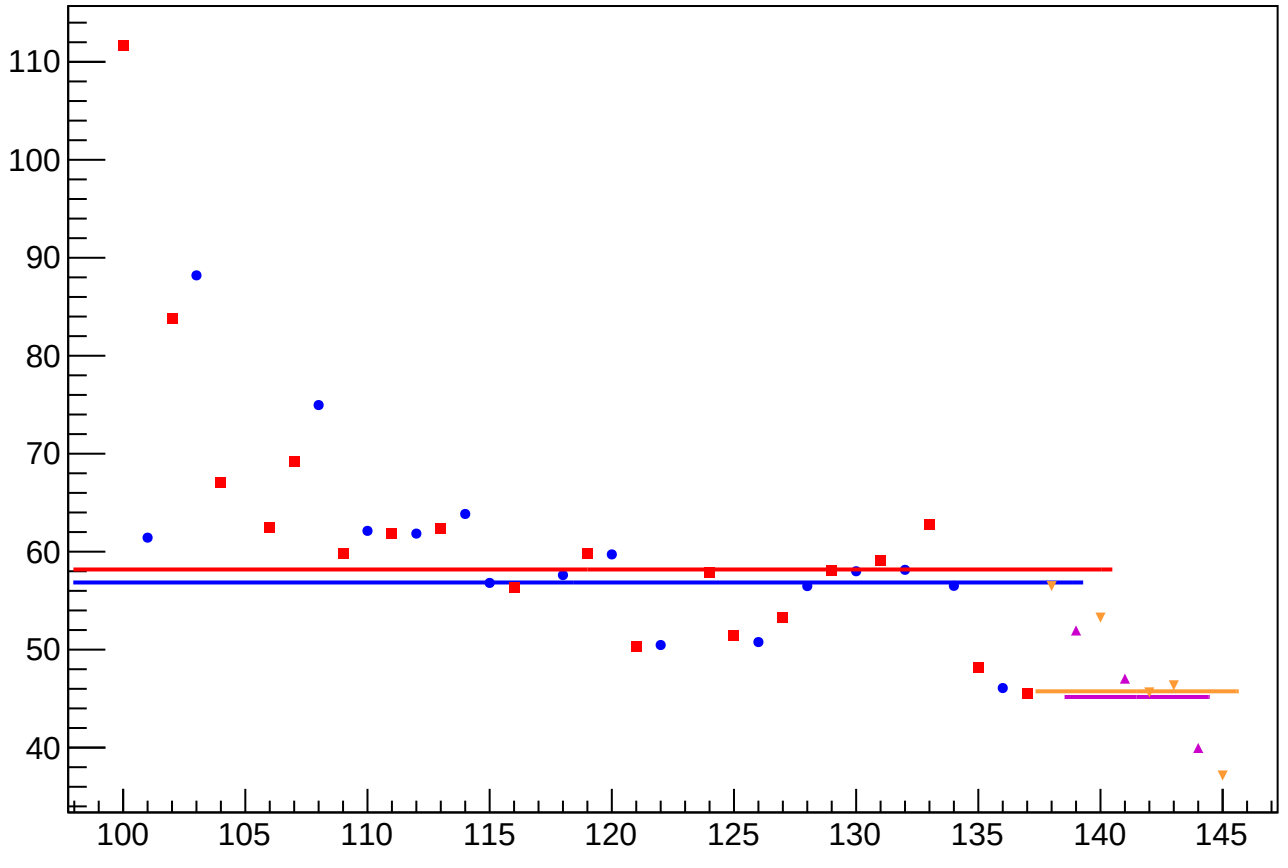
Left: -30.523+/-18.375 $\chi^2$/NDF: 6.0/7

Right: 45.094+/-15.235 $\chi^2$/NDF: 37.2/34

In: 50.054+/-17.081 $\chi^2$/NDF:16.9/18

Out: -17.614+/-16.132 $\chi^2$/NDF:28.1/23

All: 14.289+/-11.728 $\chi^2$/NDF: 53.3/42




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341601.2/15

Left Out: 45.746+/-0.017 $\chi^2$/NDF:174814.2/4

Right Out: 58.181+/-0.015 $\chi^2$/NDF: 314660.6/18

Left In: 45.167+/-0.020 $\chi^2$/NDF:61323.3/2

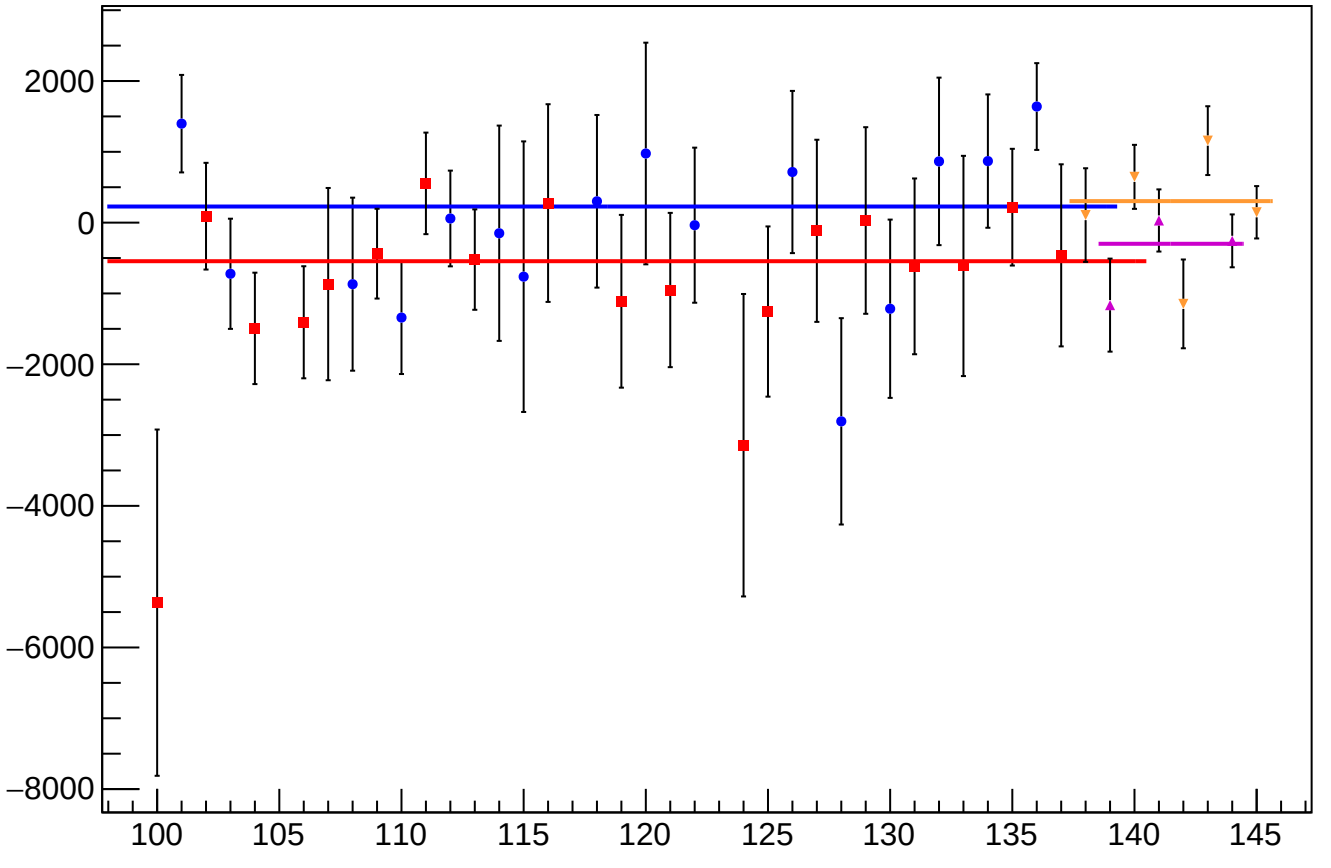
Left: 45.500+/-0.013 $\chi^2$/NDF: 236622.7/7

Right: 57.513+/-0.011 $\chi^2$/NDF: 660056.1/34

In: 52.561+/-0.012 $\chi^2$/NDF:620545.1/18

Out: 52.671+/-0.011 $\chi^2$/NDF:782741.0/23

All: 52.619+/-0.008 $\chi^2$/NDF: 1403330.1/42




Right In: 227.508+/-241.225 $\chi^2$/NDF: 21.6/15

Left Out: 303.743+/-216.800 $\chi^2$/NDF:9.3/4

Right Out: -544.769+/-227.243 $\chi^2$/NDF: 13.4/18

Left In: -298.844+/-261.030 $\chi^2$/NDF:2.3/2

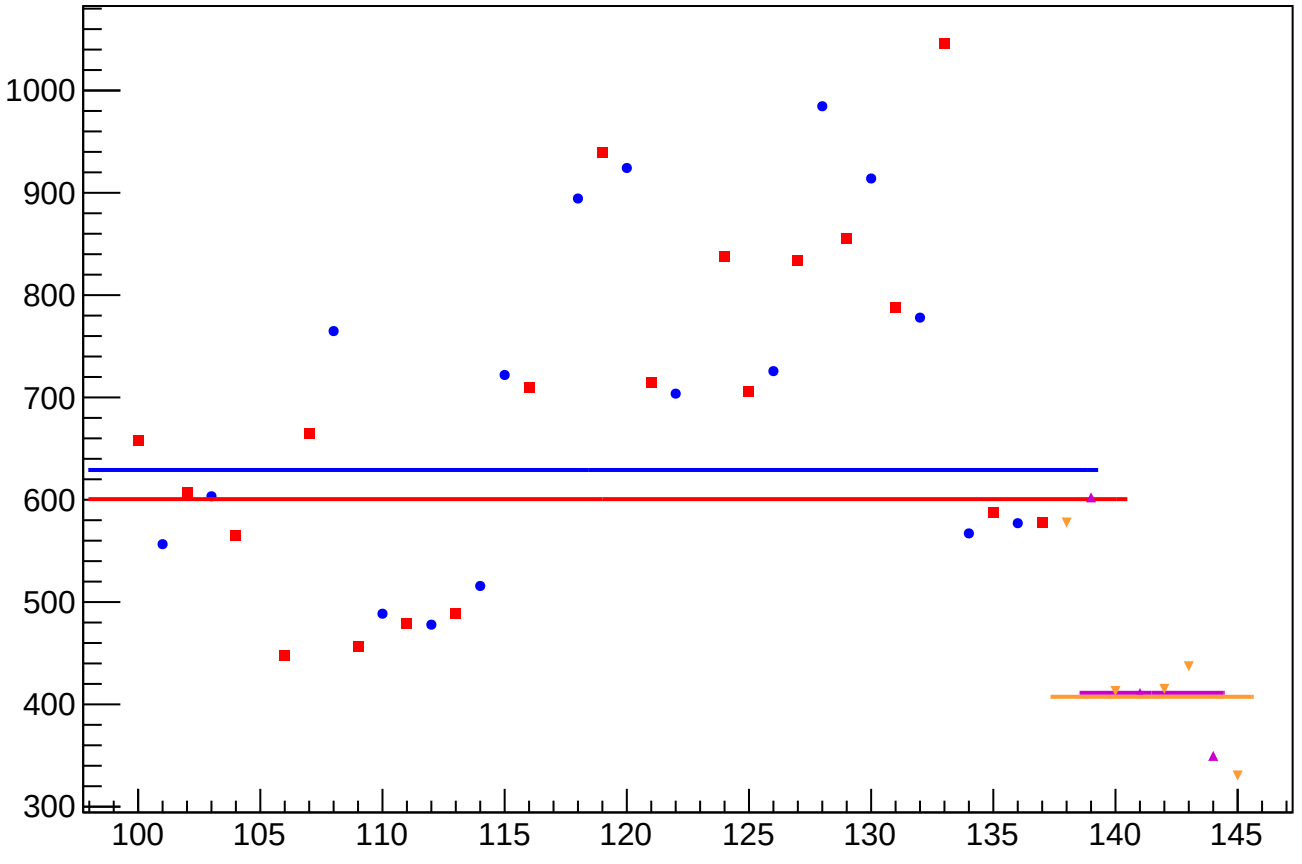
Left: 57.754+/-166.778 $\chi^2$/NDF: 14.8/7

Right: -181.660+/-165.407 $\chi^2$/NDF: 40.4/34

In: -14.945+/-177.160 $\chi^2$/NDF:26.1/18

Out: -100.570+/-156.863 $\chi^2$/NDF:30.0/23

All: -62.941+/-117.442 $\chi^2$/NDF: 56.2/42




Right In: 629.096+/-0.171 $\chi^2$/NDF: 692724.2/15

Left Out: 407.411+/-0.153 $\chi^2$/NDF:227368.6/4

Right Out: 600.593+/-0.161 $\chi^2$/NDF: 874614.2/18

Left In: 411.318+/-0.185 $\chi^2$/NDF:223592.0/2

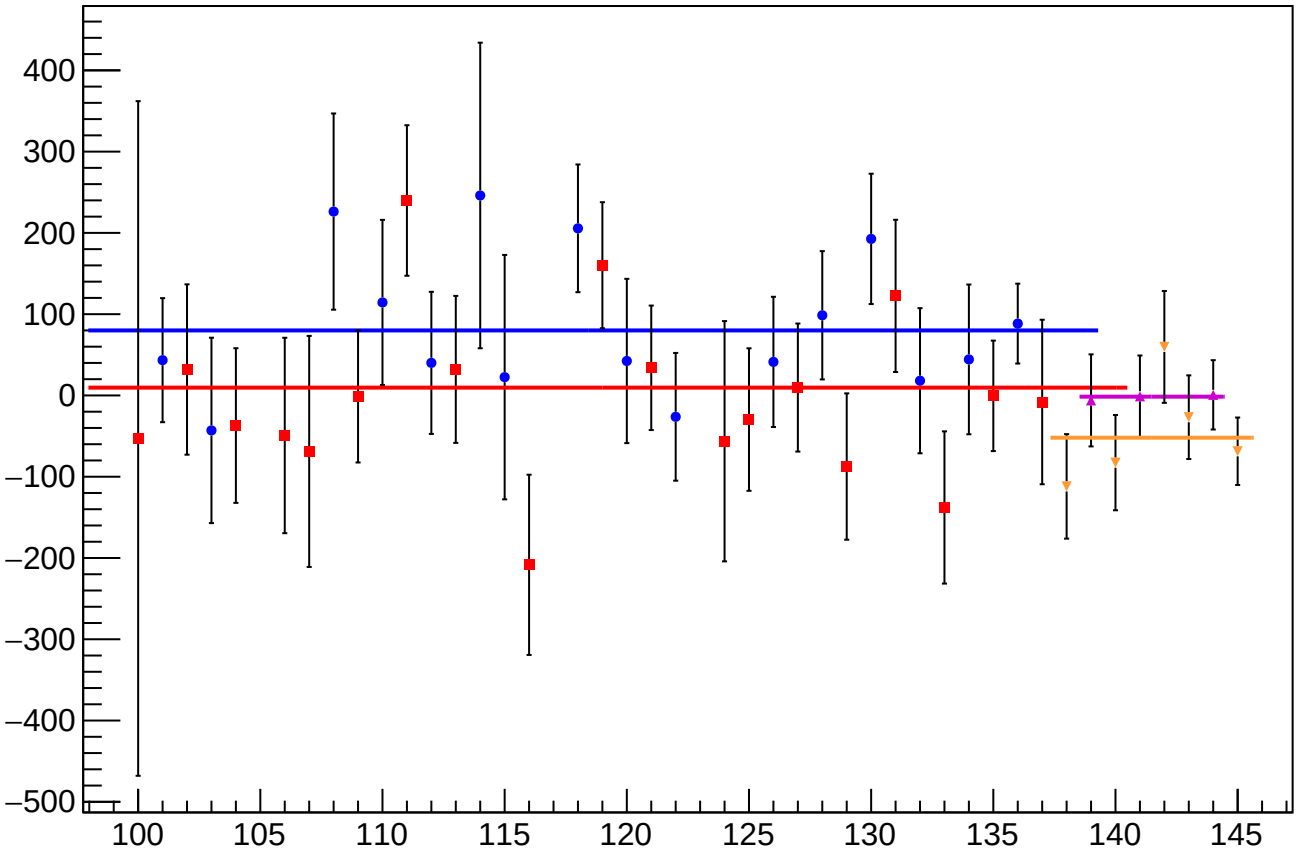
Left: 409.006+/-0.118 $\chi^2$/NDF: 451225.9/7

Right: 613.994+/-0.117 $\chi^2$/NDF: 1582132.3/34

In: 528.781+/-0.125 $\chi^2$/NDF:1667182.7/18

Out: 499.461+/-0.111 $\chi^2$/NDF:1858649.3/23

All: 512.346+/-0.083 $\chi^2$/NDF: 3556538.0/42




Right In: 79.998+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -51.988+/-24.235 $\chi^2$/NDF:4.2/4

Right Out: 9.619+/-21.631 $\chi^2$/NDF: 20.4/18

Left In: -1.510+/-28.182 $\chi^2$/NDF:0.0/2

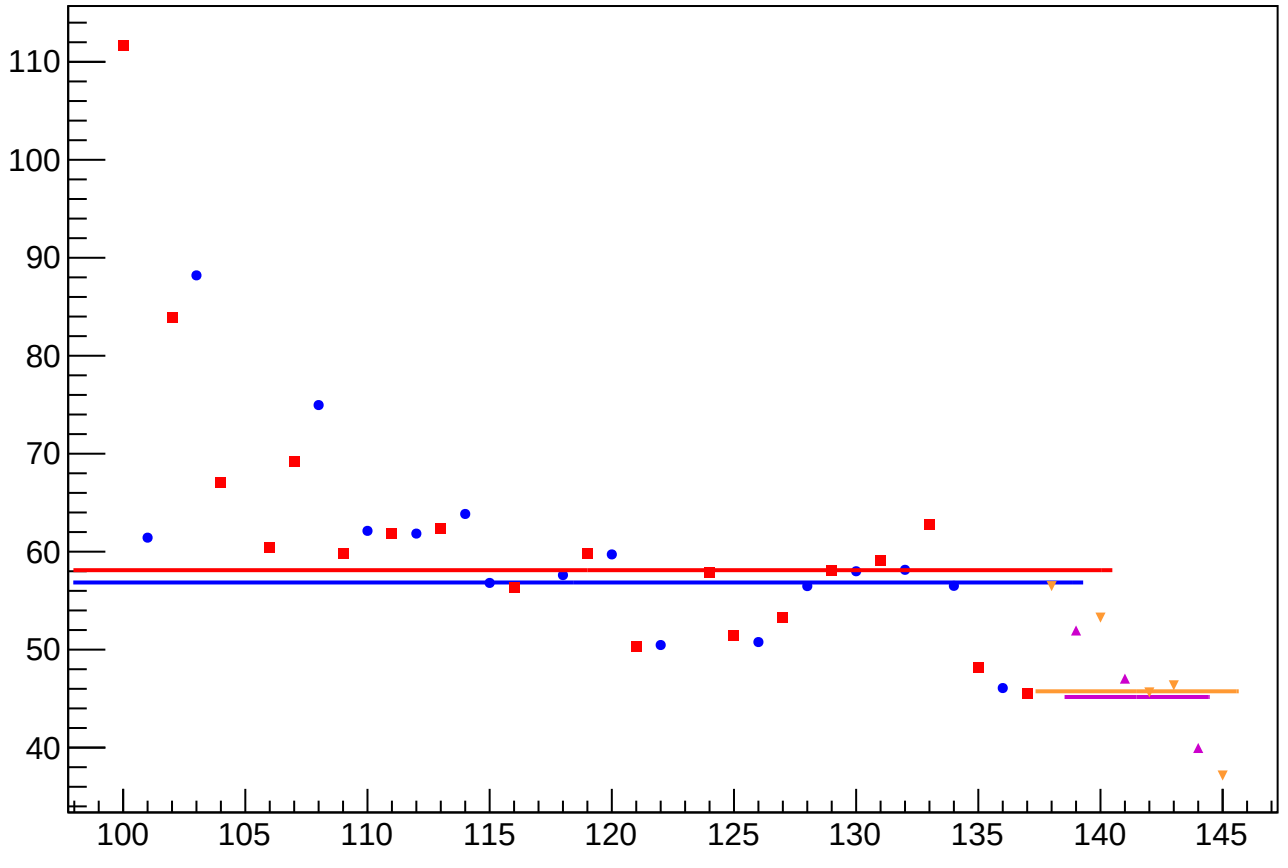
Left: -30.529+/-18.375 $\chi^2$/NDF: 6.0/7

Right: 45.064+/-15.240 $\chi^2$/NDF: 37.3/34

In: 50.056+/-17.081 $\chi^2$/NDF:16.9/18

Out: -17.698+/-16.138 $\chi^2$/NDF:28.2/23

All: 14.257+/-11.730 $\chi^2$/NDF: 53.3/42




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341605.0/15

Left Out: 45.746+/-0.017 $\chi^2$/NDF:174814.2/4

Right Out: 58.111+/-0.015 $\chi^2$/NDF: 312938.5/18

Left In: 45.167+/-0.020 $\chi^2$/NDF:61323.3/2

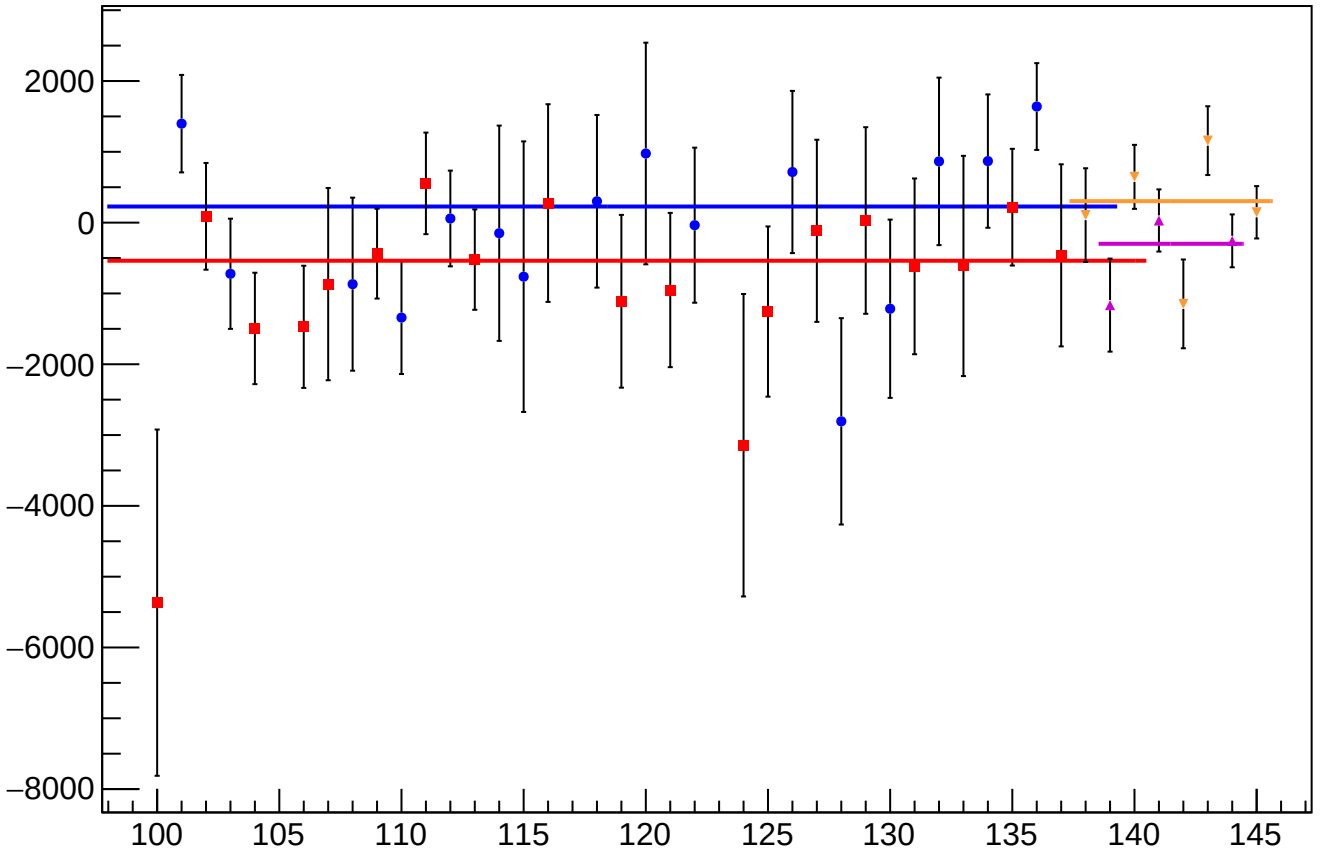
Left: 45.500+/-0.013 $\chi^2$/NDF: 236622.7/7

Right: 57.478+/-0.011 $\chi^2$/NDF: 657942.0/34

In: 52.561+/-0.012 $\chi^2$/NDF:620549.0/18

Out: 52.628+/-0.011 $\chi^2$/NDF:777531.3/23

All: 52.596+/-0.008 $\chi^2$/NDF: 1398096.6/42




Right In: 227.547+/-241.227 $\chi^2$/NDF: 21.6/15

Left Out: 303.736+/-216.800 $\chi^2$/NDF:9.3/4

Right Out: -538.117+/-228.754 $\chi^2$/NDF: 13.3/18

Left In: -298.850+/-261.030 $\chi^2$/NDF:2.3/2

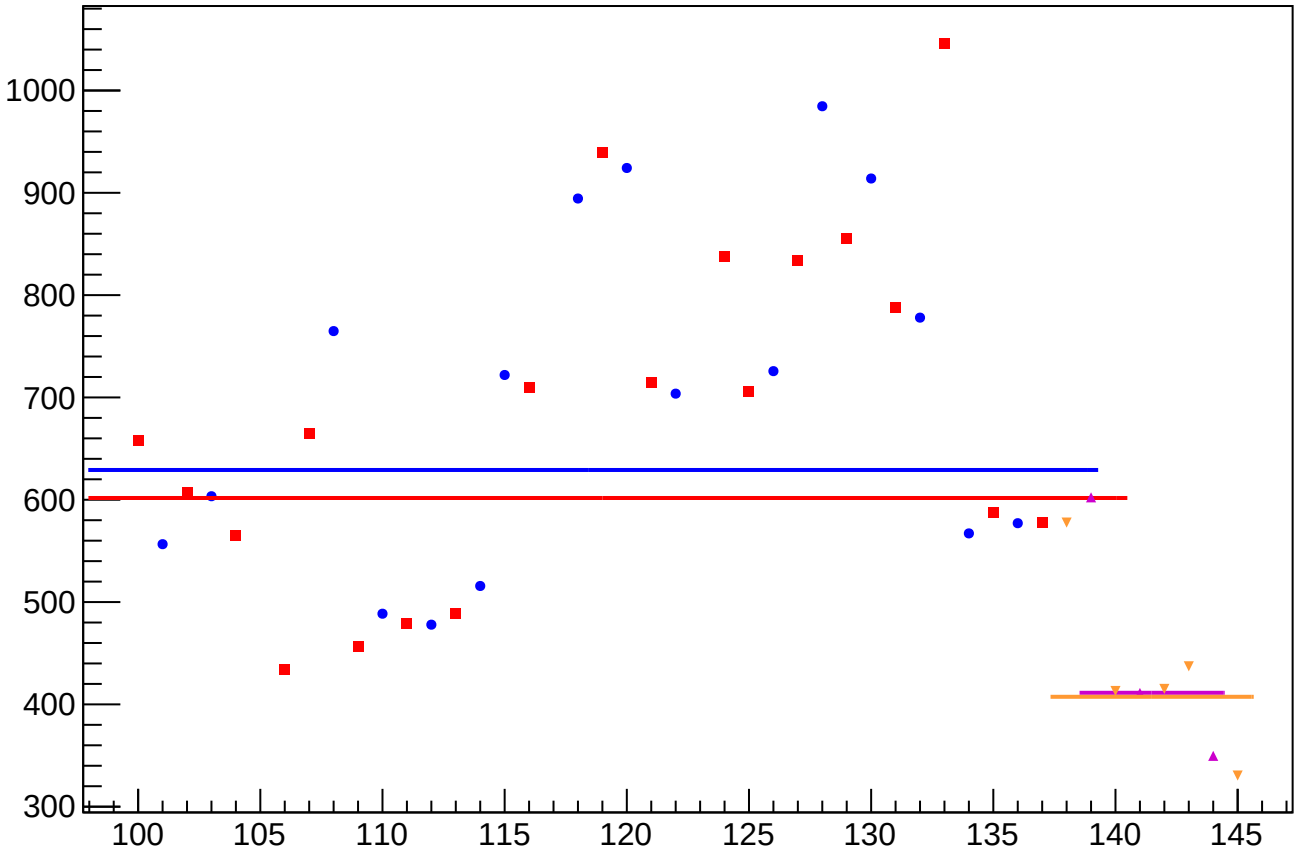
Left: 57.747+/-166.778 $\chi^2$/NDF: 14.8/7

Right: -175.590+/-165.988 $\chi^2$/NDF: 40.3/34

In: -14.929+/-177.161 $\chi^2$/NDF:26.1/18

Out: -94.619+/-157.357 $\chi^2$/NDF:29.8/23

All: -59.475+/-117.649 $\chi^2$/NDF: 56.0/42




Right In: 629.101+/-0.171 $\chi^2$/NDF: 692716.0/15

Left Out: 407.411+/-0.153 $\chi^2$/NDF:227368.3/4

Right Out: 601.721+/-0.162 $\chi^2$/NDF: 874042.1/18

Left In: 411.319+/-0.185 $\chi^2$/NDF:223591.3/2

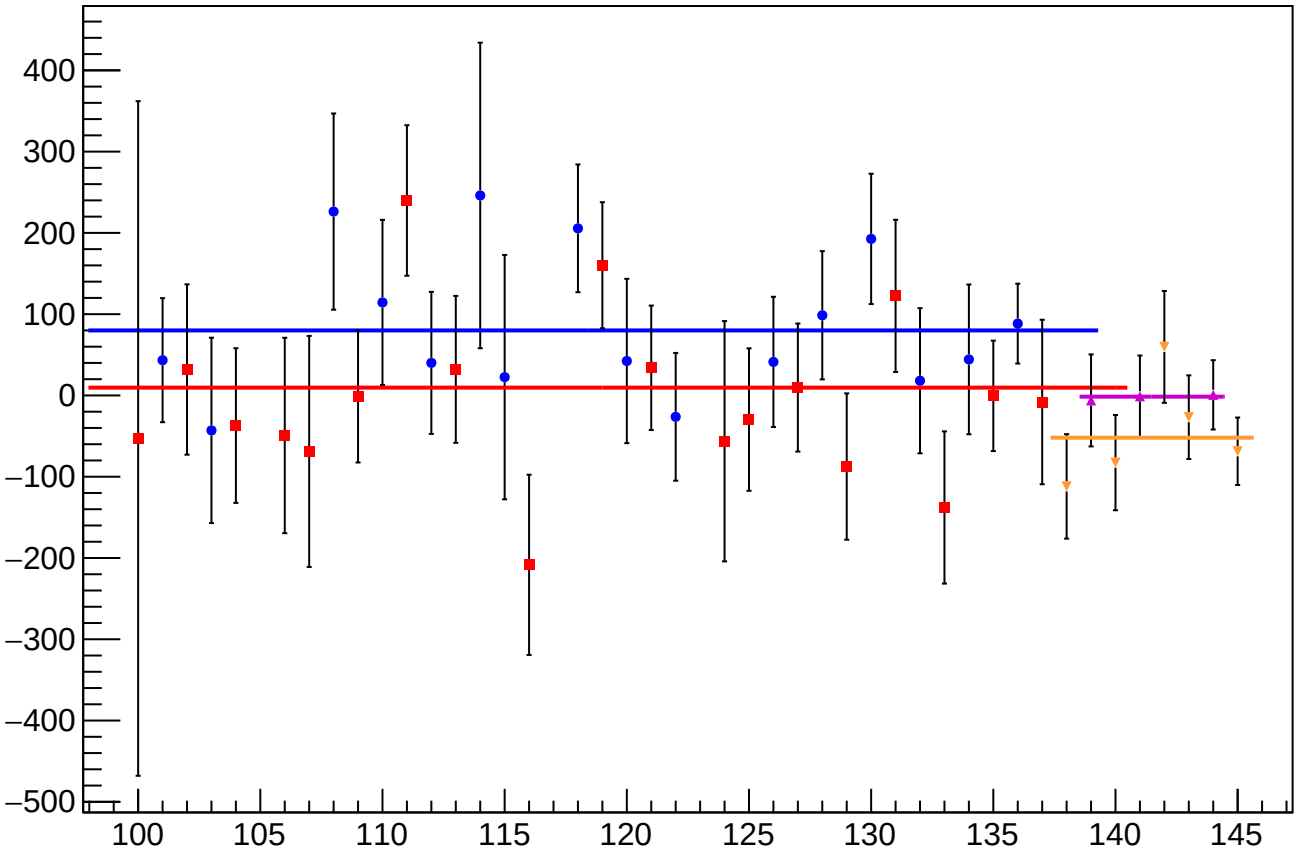
Left: 409.006+/-0.118 $\chi^2$/NDF: 451224.9/7

Right: 614.684+/-0.117 $\chi^2$/NDF: 1580324.3/34

In: 528.783+/-0.125 $\chi^2$/NDF:1667198.9/18

Out: 499.356+/-0.111 $\chi^2$/NDF:1861625.5/23

All: 512.334+/-0.083 $\chi^2$/NDF: 3559670.1/42




Right In: 79.998+/-21.474 $\chi^2$/NDF: 11.6/15

Left Out: -51.988+/-24.235 $\chi^2$/NDF:4.2/4

Right Out: 9.619+/-21.631 $\chi^2$/NDF: 20.4/18

Left In: -1.510+/-28.182 $\chi^2$/NDF:0.0/2

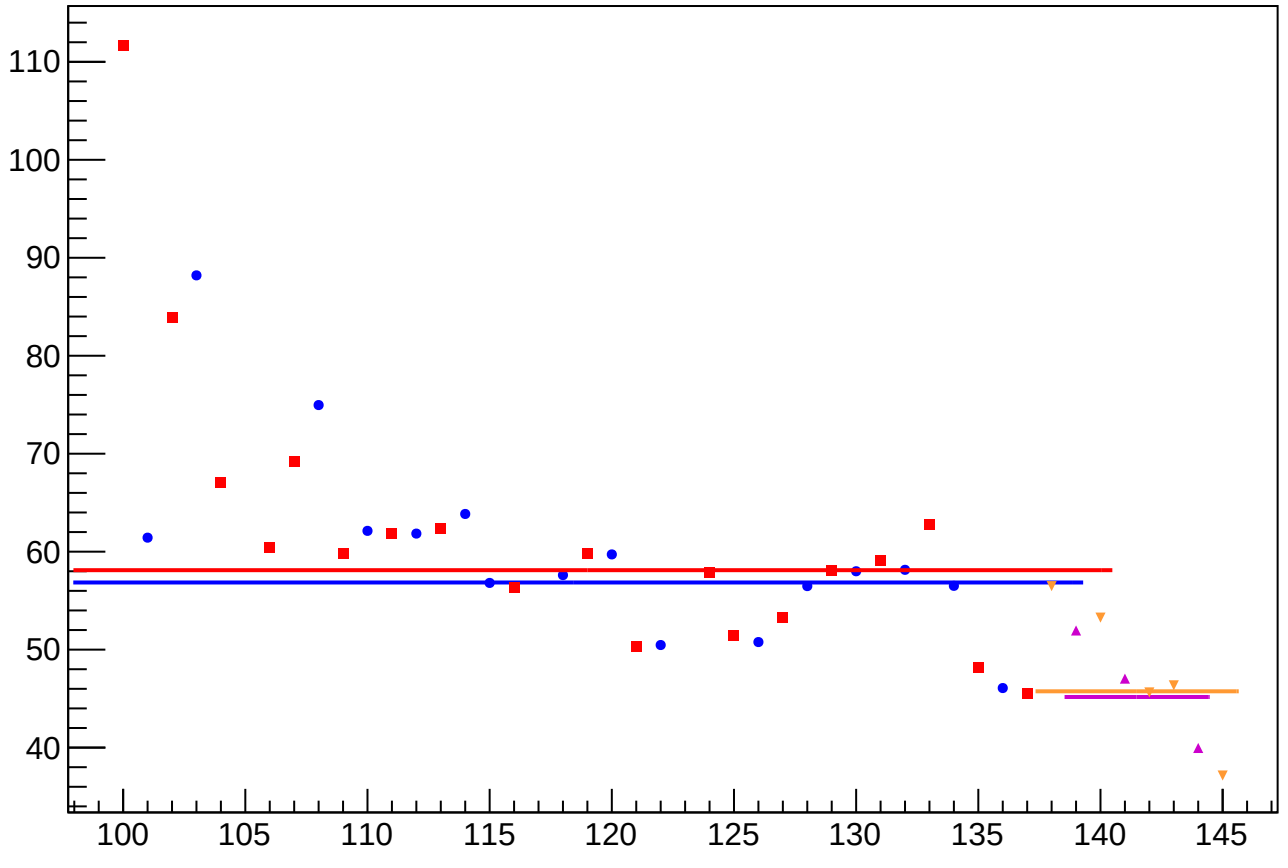
Left: -30.529+/-18.375 $\chi^2$/NDF: 6.0/7

Right: 45.064+/-15.240 $\chi^2$/NDF: 37.3/34

In: 50.056+/-17.081 $\chi^2$/NDF:16.9/18

Out: -17.698+/-16.138 $\chi^2$/NDF:28.2/23

All: 14.257+/-11.730 $\chi^2$/NDF: 53.3/42




Right In: 56.854+/-0.015 $\chi^2$/NDF: 341605.0/15

Left Out: 45.746+/-0.017 $\chi^2$/NDF:174814.2/4

Right Out: 58.111+/-0.015 $\chi^2$/NDF: 312938.5/18

Left In: 45.167+/-0.020 $\chi^2$/NDF:61323.3/2

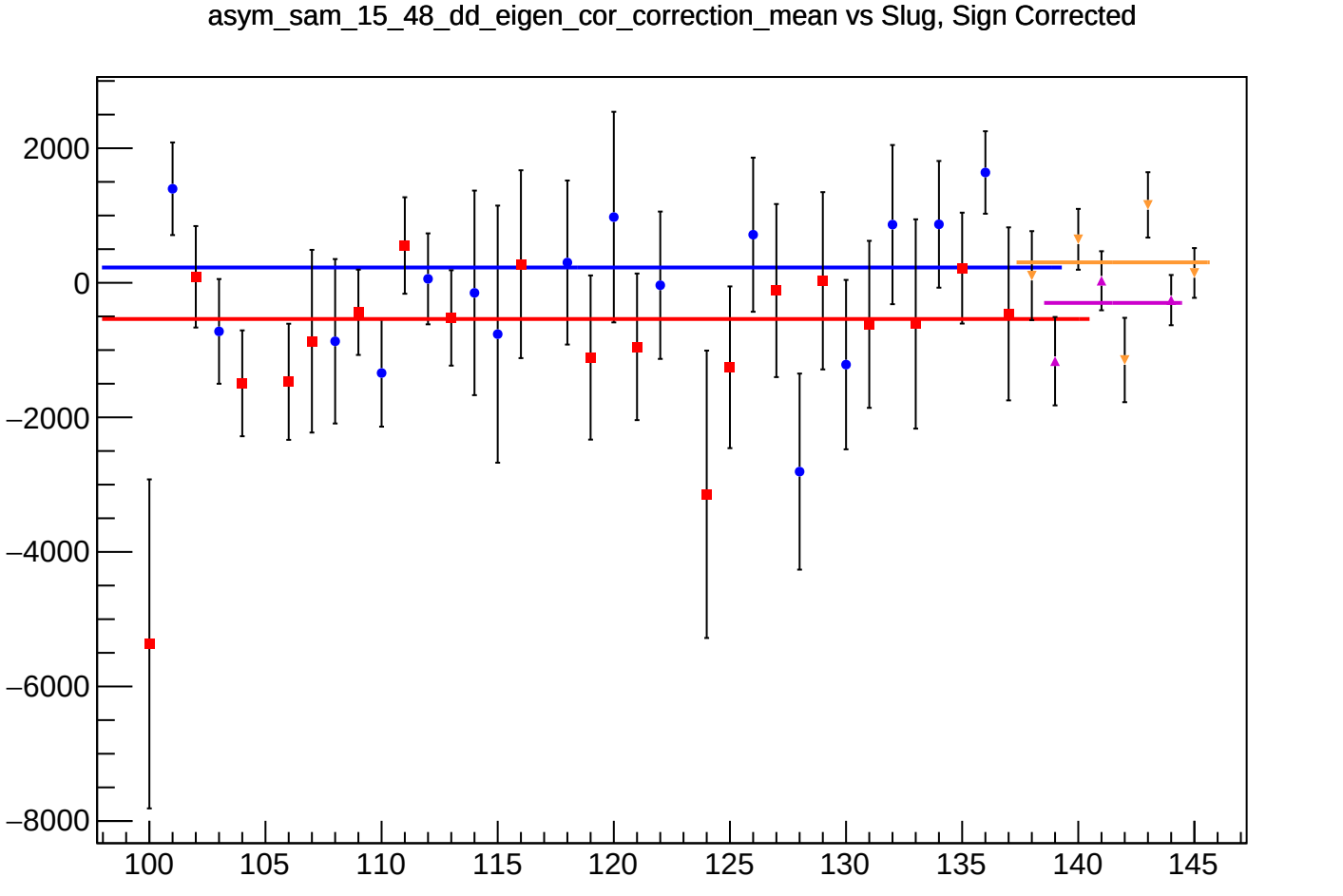
Left: 45.500+/-0.013 $\chi^2$/NDF: 236622.7/7

Right: 57.478+/-0.011 $\chi^2$/NDF: 657942.0/34

In: 52.561+/-0.012 $\chi^2$/NDF:620549.0/18

Out: 52.628+/-0.011 $\chi^2$/NDF:777531.3/23

All: 52.596+/-0.008 $\chi^2$/NDF: 1398096.6/42




Right In: 227.547+/-241.227 $\chi^2$/NDF: 21.6/15

Left Out: 303.736+/-216.800 $\chi^2$/NDF:9.3/4

Right Out: -538.117+/-228.754 $\chi^2$/NDF: 13.3/18

Left In: -298.850+/-261.030 $\chi^2$/NDF:2.3/2

Left: 57.747+/-166.778 $\chi^2$/NDF: 14.8/7

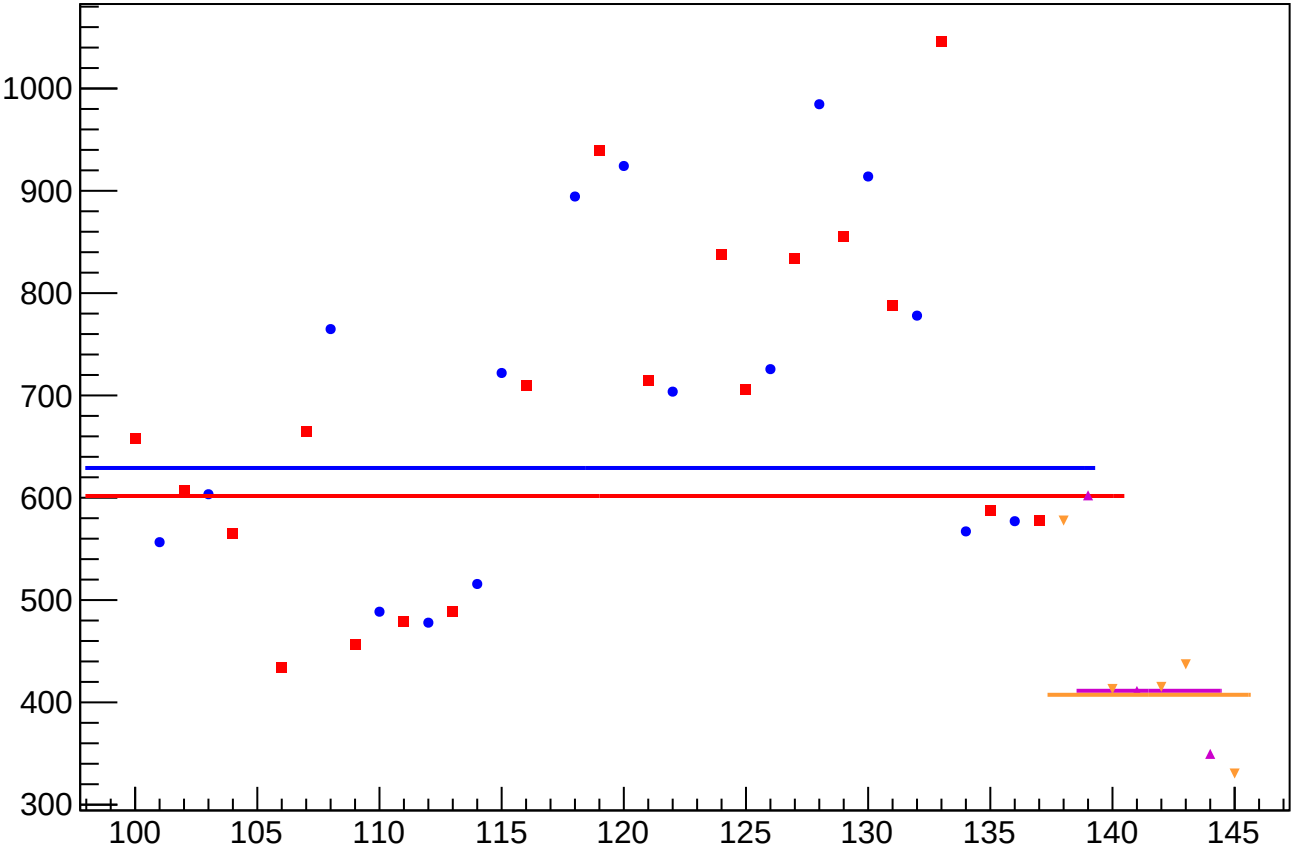
Right: -175.590+/-165.988 $\chi^2$/NDF: 40.3/34

In: -14.929+/-177.161 $\chi^2$/NDF:26.1/18

Out: -94.619+/-157.357 $\chi^2$/NDF:29.8/23

All: -59.475+/-117.649 $\chi^2$/NDF: 56.0/42

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: 407.411+/-0.153 $\chi^2$/NDF:227368.3/4

Right Out: 601.721+/-0.162 $\chi^2$/NDF: 874042.1/18

Left In: 411.319+/-0.185 $\chi^2$/NDF:223591.3/2

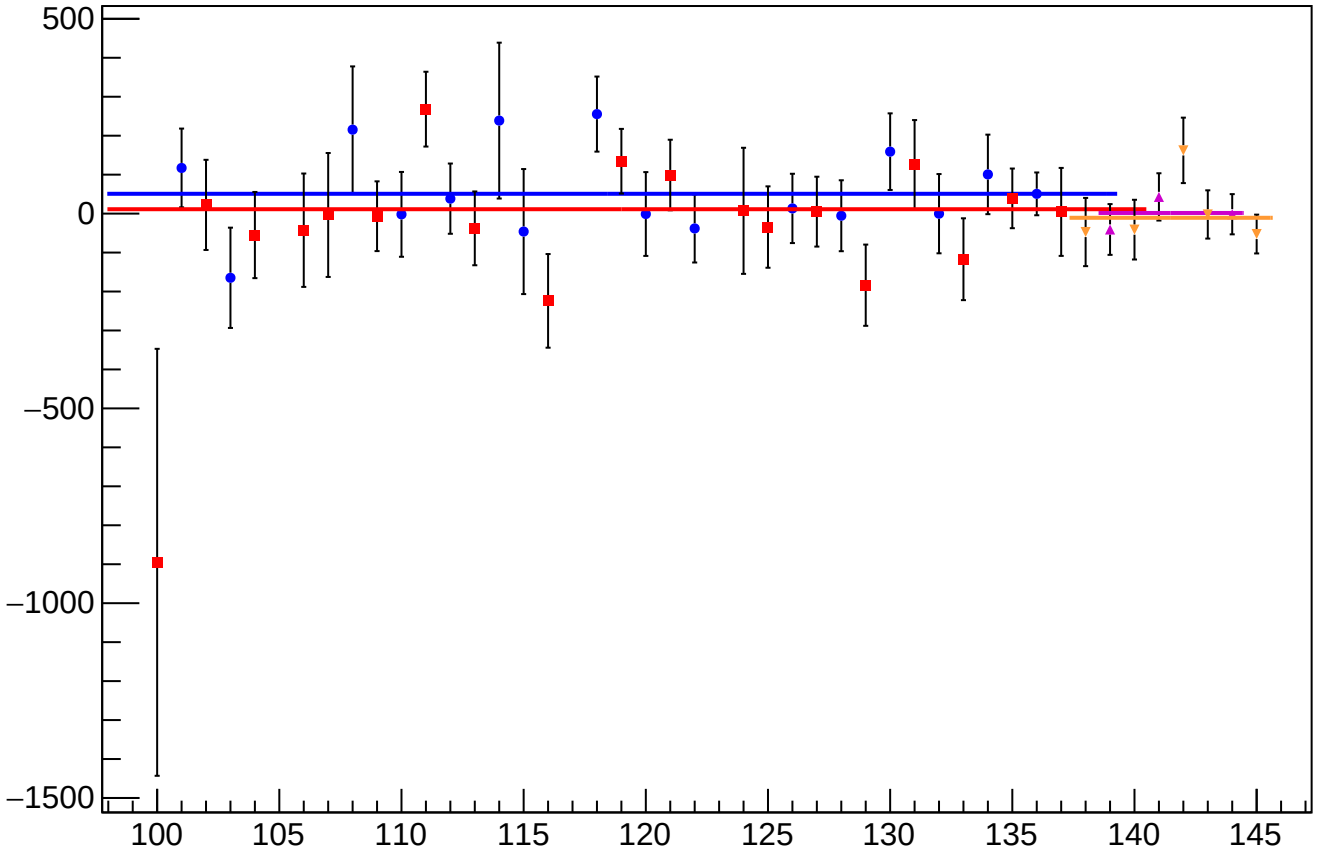
Left: 409.006+/-0.118 $\chi^2$/NDF: 451224.9/7

Right: 614.684+/-0.117 $\chi^2$/NDF: 1580324.3/34

In: 528.783+/-0.125 $\chi^2$/NDF:1667198.9/18

Out: 499.356+/-0.111 $\chi^2$/NDF:1861625.5/23

All: 512.334+/-0.083 $\chi^2$/NDF: 3559670.1/42




Right In: 50.861+/-24.492 $\chi^2$/NDF: 13.8/15

Left Out: -10.750+/-30.068 $\chi^2$/NDF:5.3/4

Right Out: 11.261+/-24.324 $\chi^2$/NDF: 24.0/18

Left In: 1.636+/-33.663 $\chi^2$/NDF:0.9/2

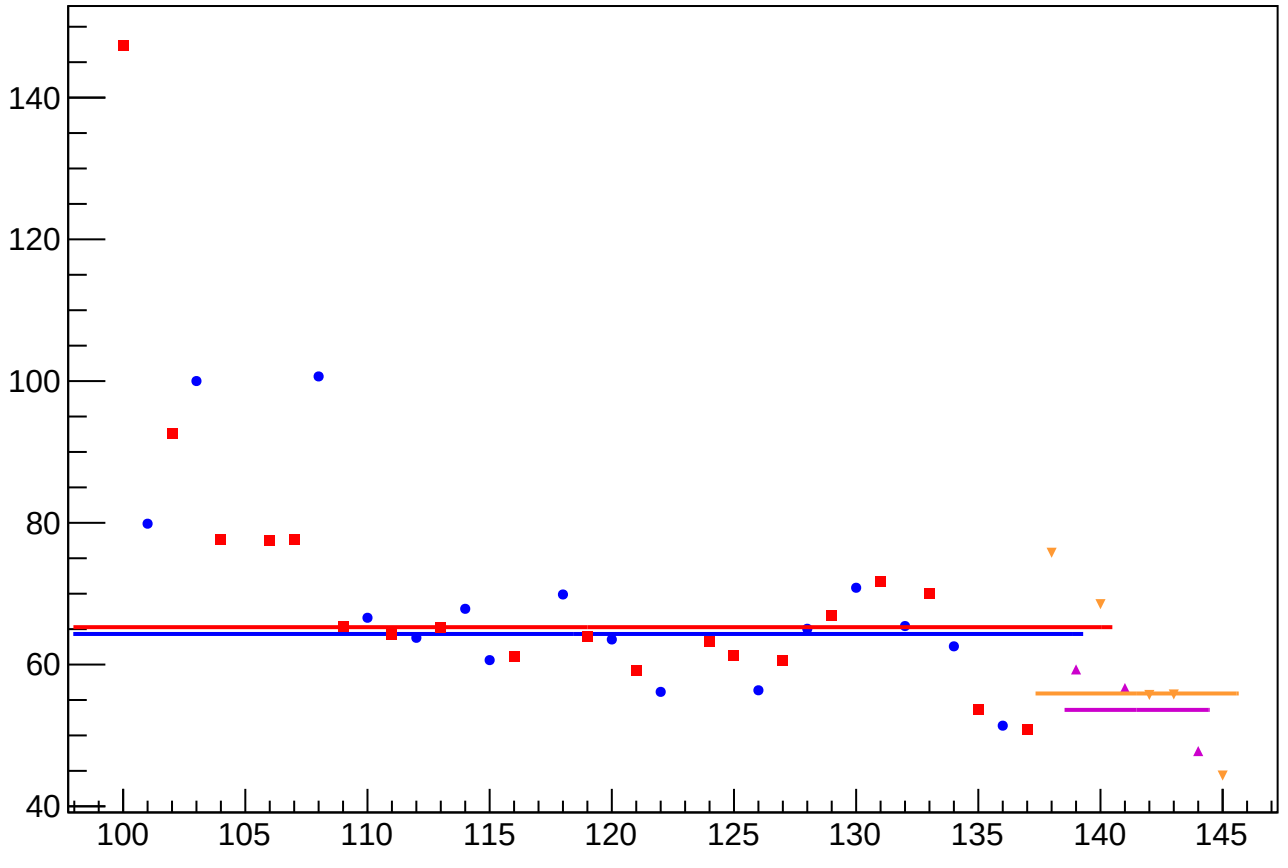
Left: -5.253+/-22.425 $\chi^2$/NDF: 6.3/7

Right: 30.925+/-17.259 $\chi^2$/NDF: 39.1/34

In: 33.823+/-19.805 $\chi^2$/NDF:16.1/18

Out: 2.554+/-18.911 $\chi^2$/NDF:29.6/23

All: 17.467+/-13.677 $\chi^2$/NDF: 47.0/42




Right In: 64.317+/-0.017 $\chi^2$/NDF: 464952.4/15

Left Out: 55.919+/-0.021 $\chi^2$/NDF:265034.0/4

Right Out: 65.277+/-0.017 $\chi^2$/NDF: 319136.6/18

Left In: 53.605+/-0.024 $\chi^2$/NDF:45891.0/2

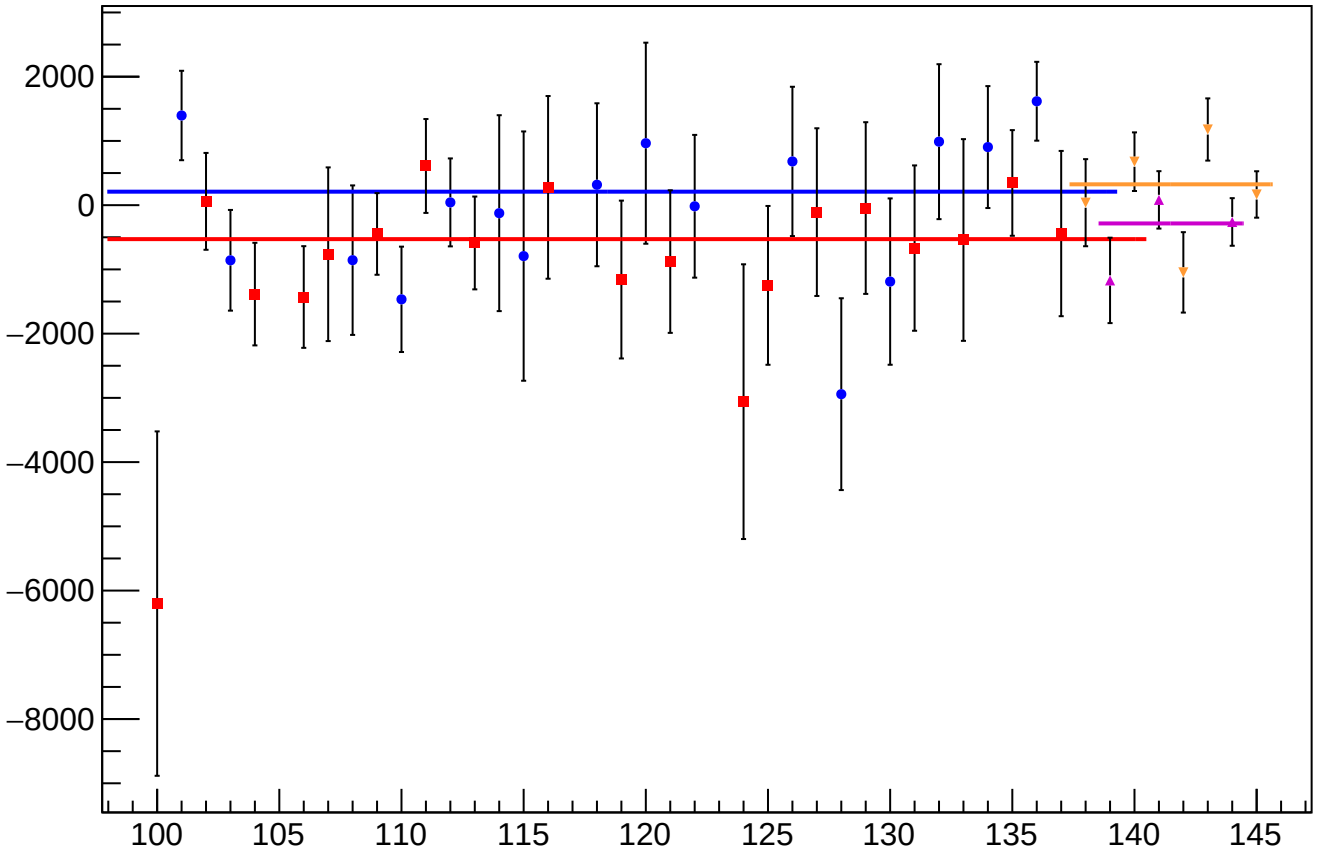
Left: 54.892+/-0.016 $\chi^2$/NDF: 316179.0/7

Right: 64.800+/-0.012 $\chi^2$/NDF: 785637.7/34

In: 60.609+/-0.014 $\chi^2$/NDF:643256.2/18

Out: 61.575+/-0.013 $\chi^2$/NDF:701283.9/23

All: 61.115+/-0.010 $\chi^2$/NDF: 1347029.7/42




Right In: 210.018+/-243.798 $\chi^2$/NDF: 22.4/15

Left Out: 324.552+/-215.914 $\chi^2$/NDF:8.9/4

Right Out: -528.675+/-229.679 $\chi^2$/NDF: 13.8/18

Left In: -284.470+/-262.118 $\chi^2$/NDF:2.5/2

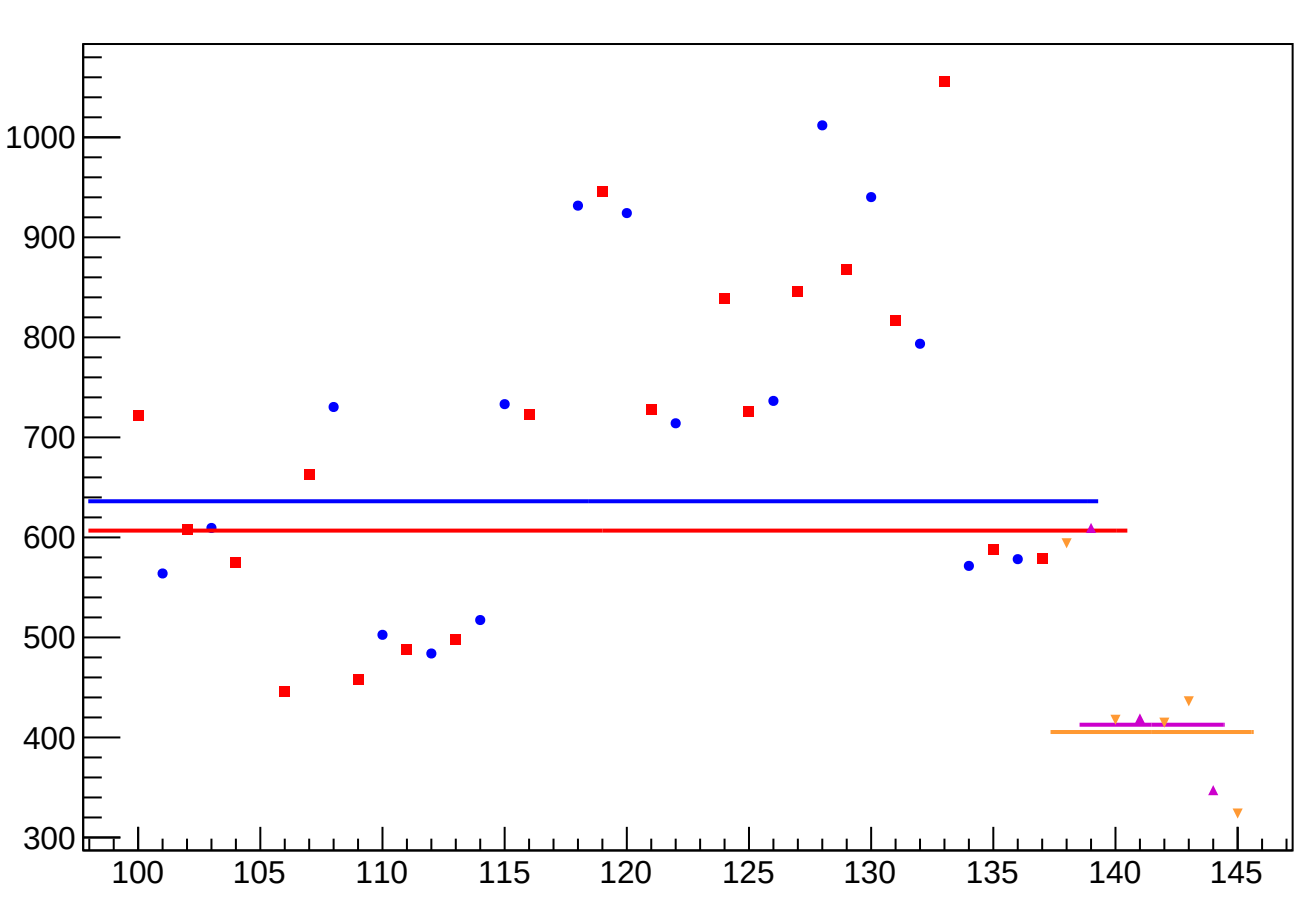
Left: 78.361+/-166.654 $\chi^2$/NDF: 14.5/7

Right: -181.337+/-167.176 $\chi^2$/NDF: 41.1/34

In: -19.344+/-178.517 $\chi^2$/NDF:26.8/18

Out: -75.729+/-157.315 $\chi^2$/NDF:30.0/23

All: -51.082+/-118.026 $\chi^2$/NDF: 56.9/42




Right In: 636.144+/-0.172 $\chi^2$/NDF: 705237.7/15

Left Out: 405.442+/-0.153 $\chi^2$/NDF:266589.4/4

Right Out: 606.803+/-0.162 $\chi^2$/NDF: 893878.7/18

Left In: 412.725+/-0.185 $\chi^2$/NDF:237883.7/2

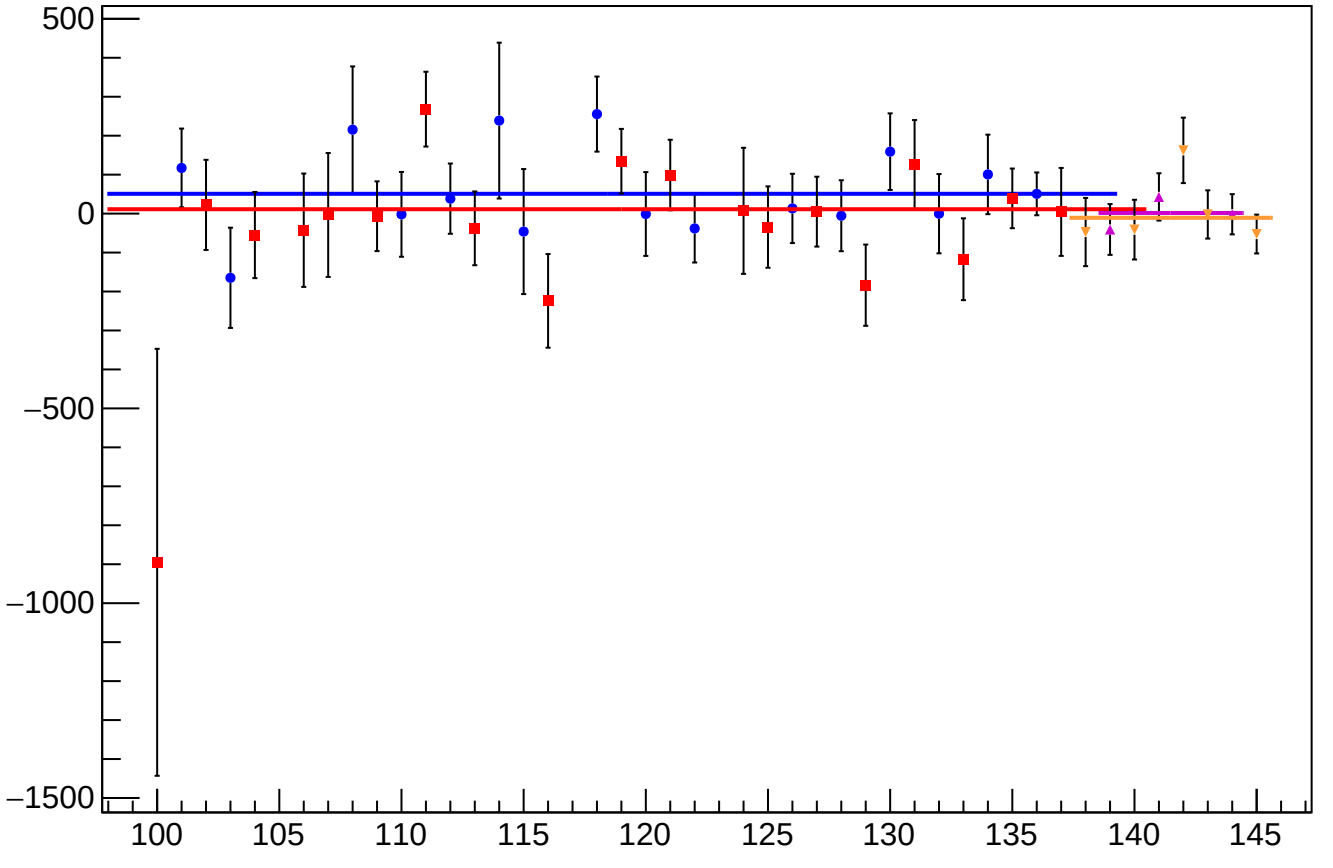
Left: 408.386+/-0.118 $\chi^2$/NDF: 505392.9/7

Right: 620.599+/-0.118 $\chi^2$/NDF: 1614464.0/34

In: 532.514+/-0.126 $\chi^2$/NDF:1722191.2/18

Out: 499.908+/-0.111 $\chi^2$/NDF:1976522.5/23

All: 514.161+/-0.083 $\chi^2$/NDF: 3736270.6/42




Right In: 50.859+/-24.492 $\chi^2$/NDF: 13.8/15

Left Out: -10.749+/-30.069 $\chi^2$/NDF:5.3/4

Right Out: 11.261+/-24.324 $\chi^2$/NDF: 24.0/18

Left In: 1.636+/-33.663 $\chi^2$/NDF:0.9/2

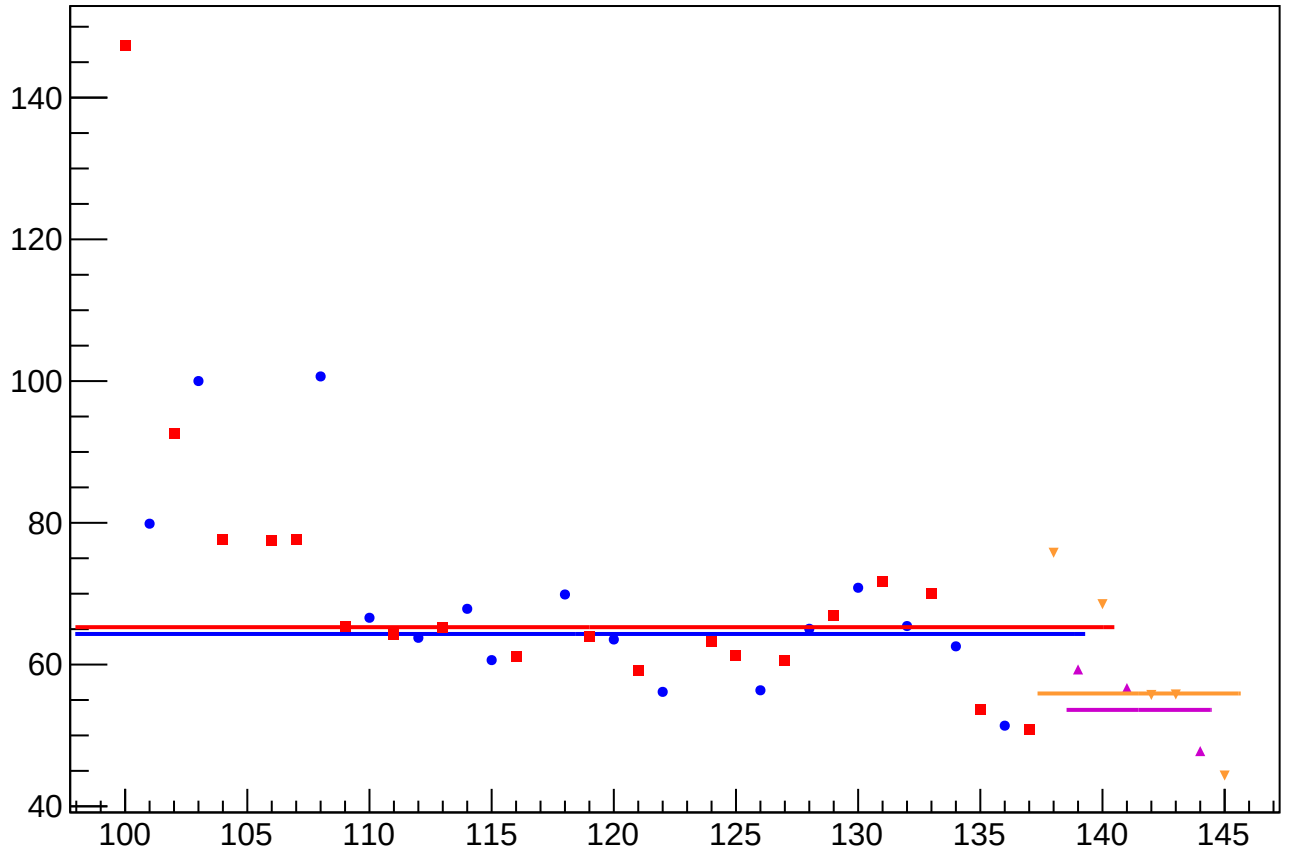
Left: -5.253+/-22.425 $\chi^2$/NDF: 6.3/7

Right: 30.924+/-17.259 $\chi^2$/NDF: 39.1/34

In: 33.821+/-19.805 $\chi^2$/NDF:16.1/18

Out: 2.554+/-18.911 $\chi^2$/NDF:29.6/23

All: 17.467+/-13.677 $\chi^2$/NDF: 47.0/42




Right In: 64.317+/-0.017 $\chi^2$/NDF: 464950.5/15

Left Out: 55.919+/-0.021 $\chi^2$/NDF:265021.0/4

Right Out: 65.277+/-0.017 $\chi^2$/NDF: 319140.2/18

Left In: 53.605+/-0.024 $\chi^2$/NDF:45886.9/2

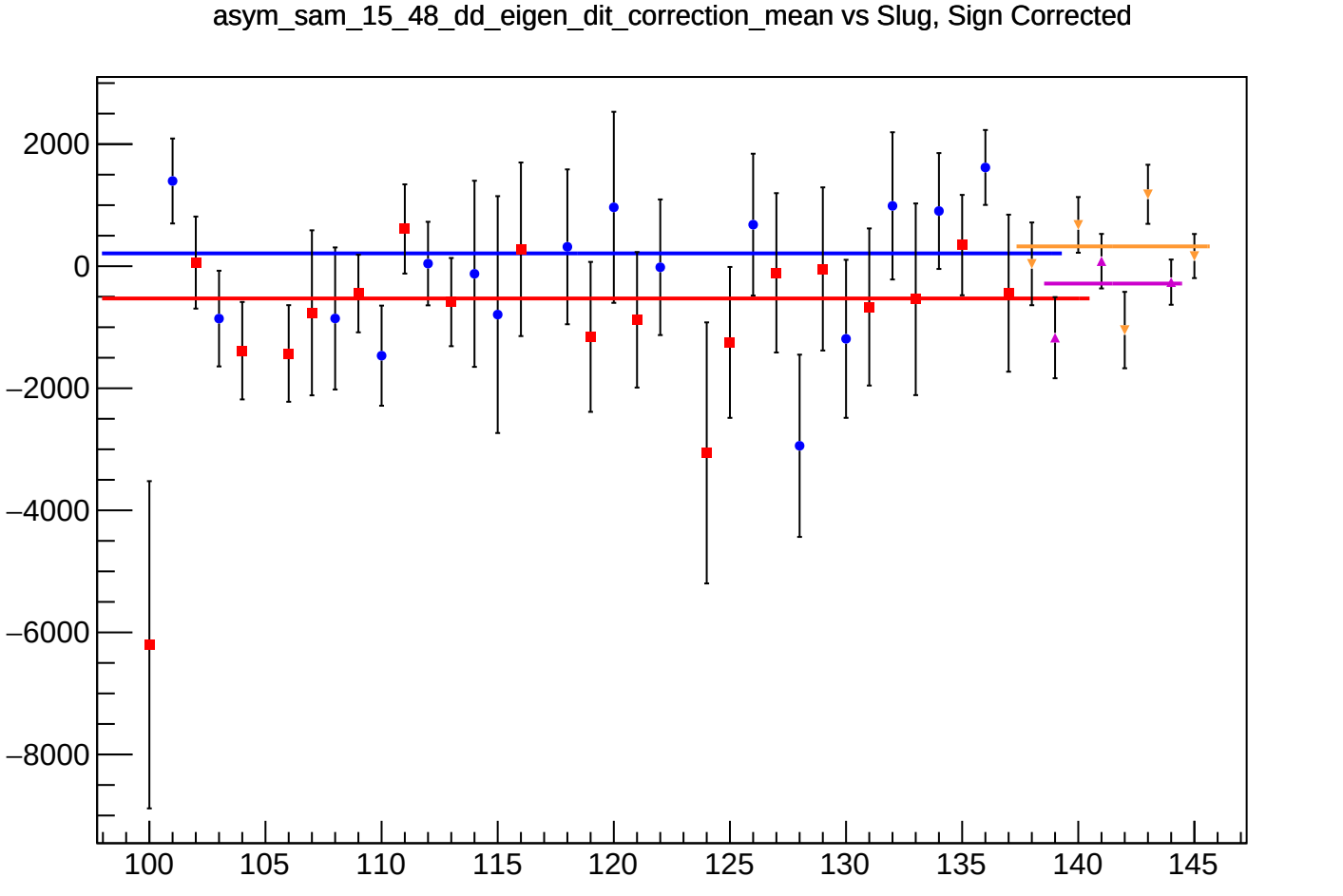
Left: 54.892+/-0.016 $\chi^2$/NDF: 316163.0/7

Right: 64.800+/-0.012 $\chi^2$/NDF: 785639.3/34

In: 60.609+/-0.014 $\chi^2$/NDF:643249.0/18

Out: 61.575+/-0.013 $\chi^2$/NDF:701265.3/23

All: 61.115+/-0.010 $\chi^2$/NDF: 1347004.3/42




Right In: 210.017+/-243.798 $\chi^2$/NDF: 22.4/15

Left Out: 324.553+/-215.913 $\chi^2$/NDF:8.9/4

Right Out: -528.674+/-229.678 $\chi^2$/NDF: 13.8/18

Left In: -284.470+/-262.117 $\chi^2$/NDF:2.5/2

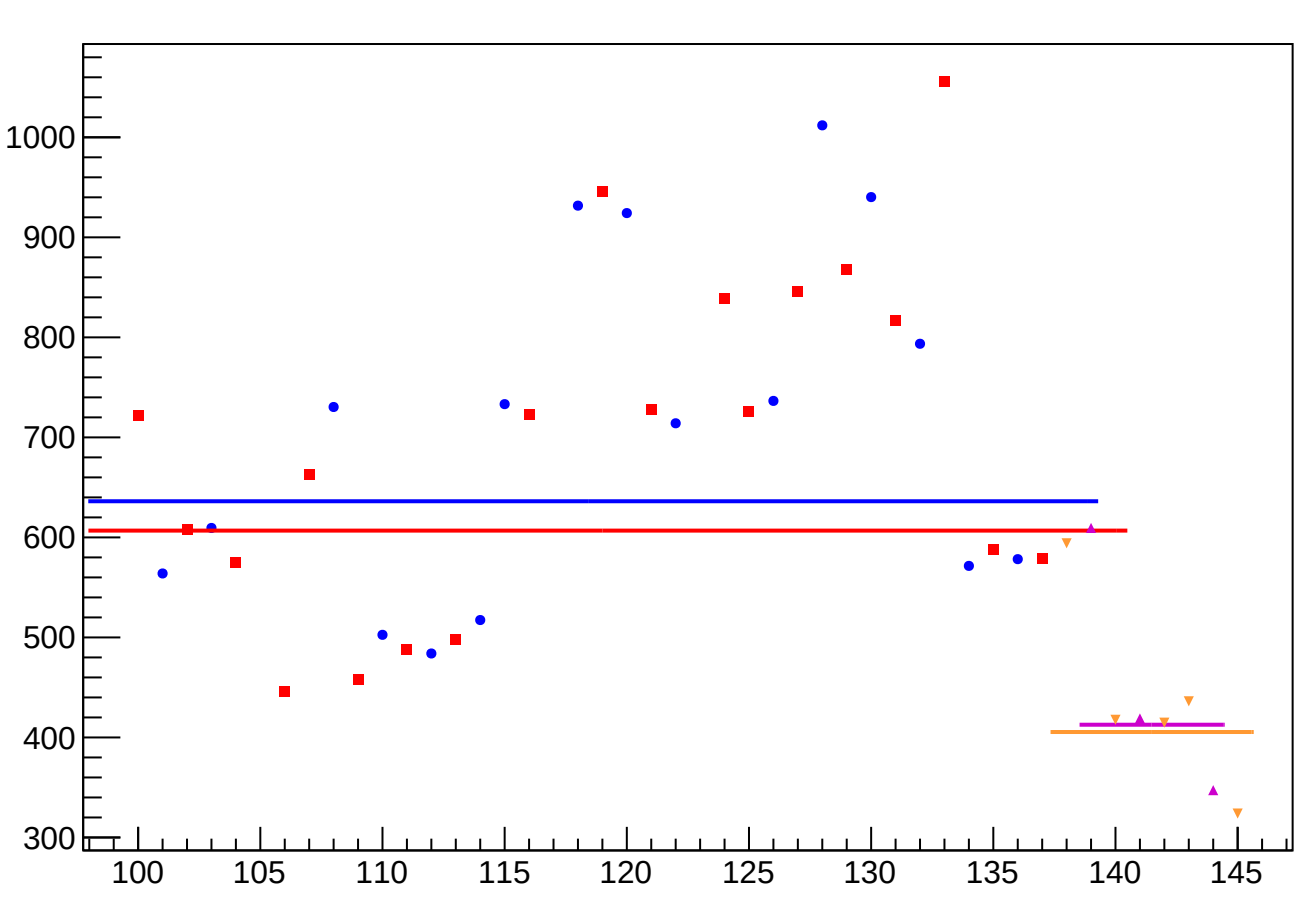
Left: 78.362+/-166.654 $\chi^2$/NDF: 14.5/7

Right: -181.337+/-167.176 $\chi^2$/NDF: 41.1/34

In: -19.344+/-178.516 $\chi^2$/NDF:26.8/18

Out: -75.727+/-157.315 $\chi^2$/NDF:30.0/23

All: -51.081+/-118.026 $\chi^2$/NDF: 56.9/42




Right In: 636.144+/-0.172 $\chi^2$/NDF: 705241.1/15

Left Out: 405.441+/-0.153 $\chi^2$/NDF:266591.1/4

Right Out: 606.802+/-0.162 $\chi^2$/NDF: 893880.8/18

Left In: 412.724+/-0.185 $\chi^2$/NDF:237883.4/2

Left: 408.385+/-0.118 $\chi^2$/NDF: 505394.3/7

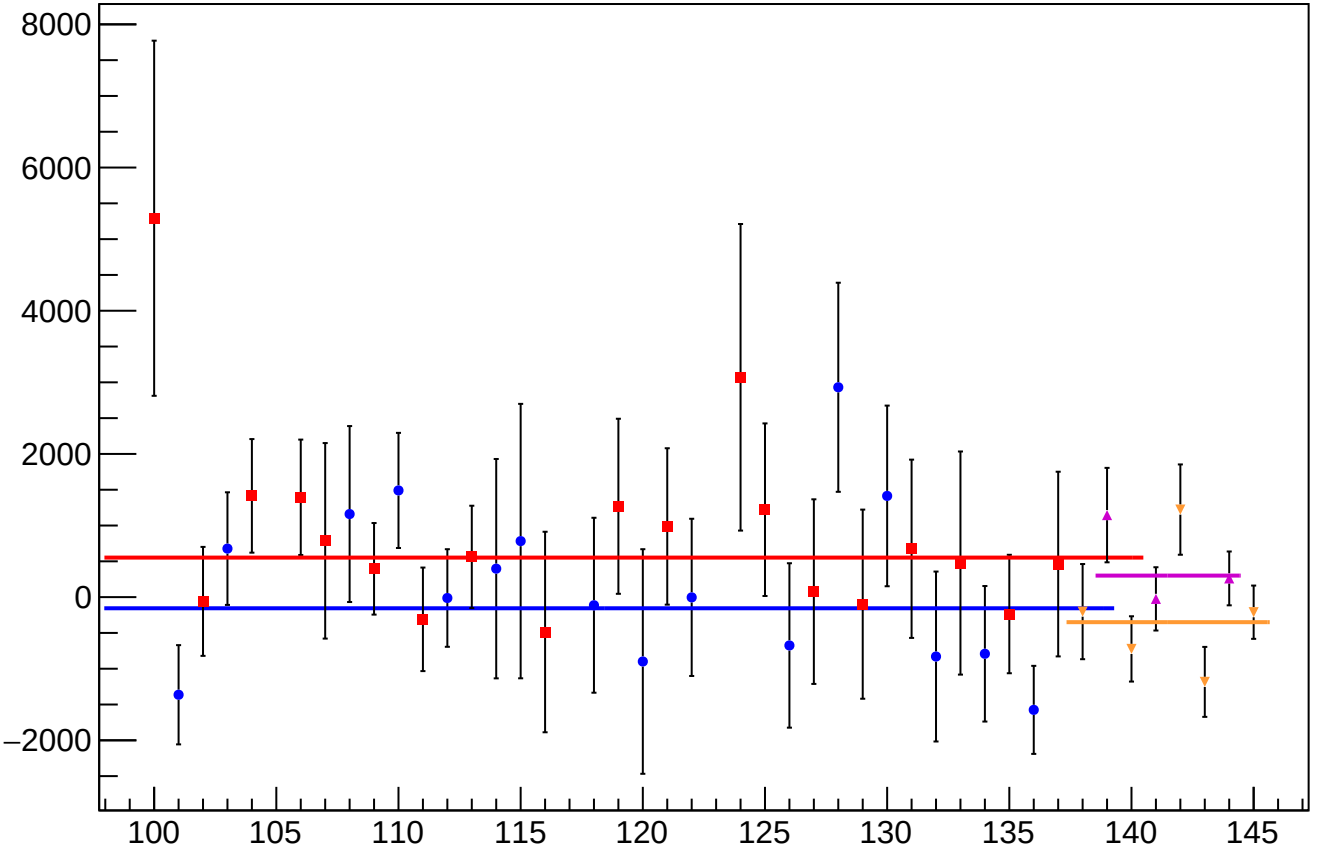
Right: 620.599+/-0.118 $\chi^2$/NDF: 1614469.5/34

In: 532.513+/-0.126 $\chi^2$/NDF:1722199.0/18

Out: 499.907+/-0.111 $\chi^2$/NDF:1976534.3/23

All: 514.160+/-0.083 $\chi^2$/NDF: 3736290.7/42

# asym_sam_15_48_dd_mean vs Slug, Sign Corrected




Right In: -155.651+/-242.595 $\chi^2$/NDF: 22.5/15

Left Out: -349.737+/-218.236 $\chi^2$/NDF:10.0/4

Right Out: 552.176+/-228.890 $\chi^2$/NDF: 12.1/18

Left In: 300.651+/-262.653 $\chi^2$/NDF:2.2/2

Left: -84.107+/-167.855 $\chi^2$/NDF: 15.8/7

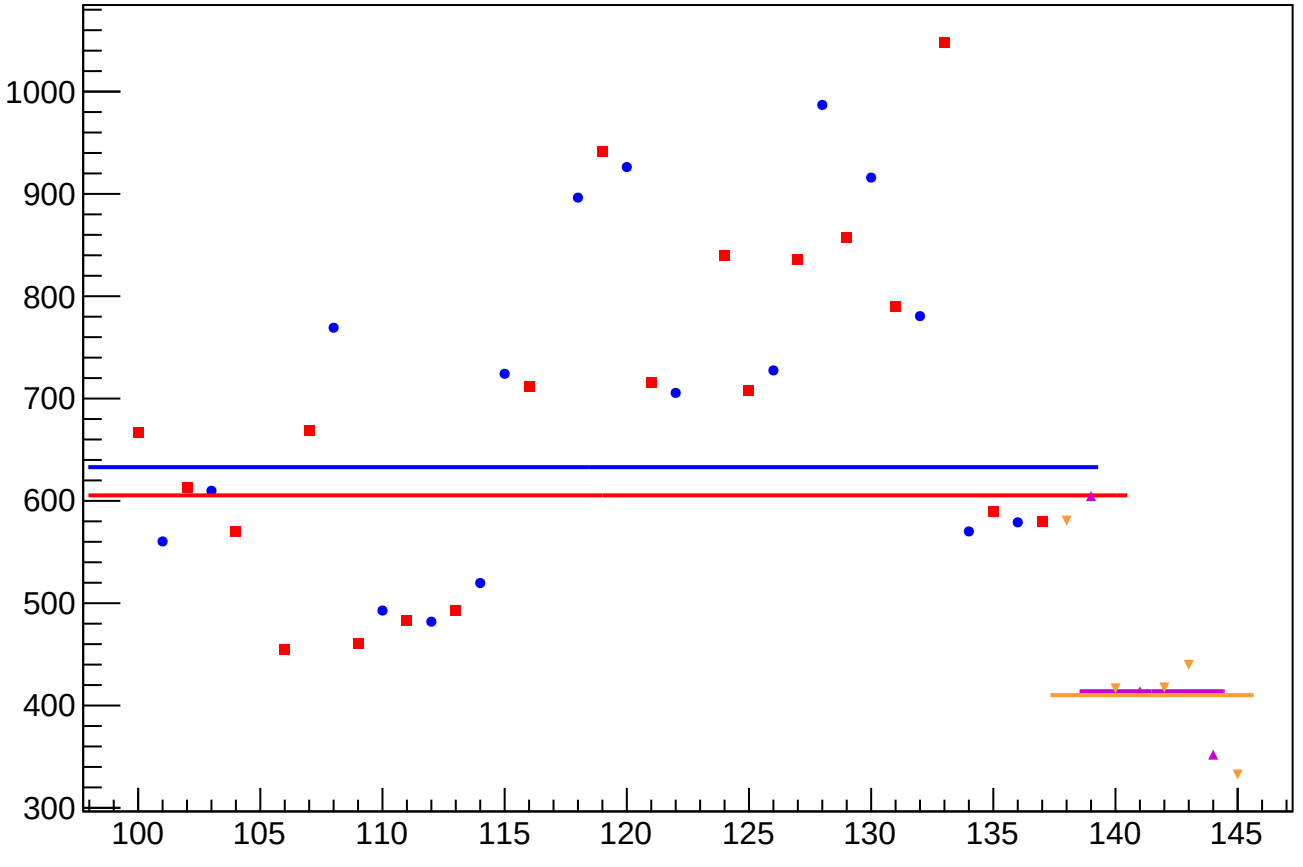
Right: 218.820+/-166.484 $\chi^2$/NDF: 39.1/34

In: 54.414+/-178.210 $\chi^2$/NDF:26.3/18

Out: 79.742+/-157.948 $\chi^2$/NDF:30.3/23

All: 68.599+/-118.204 $\chi^2$/NDF: 56.6/42

# asym_sam_15_48_dd_rms vs Slug, Sign Corrected




Right In: 632.966+/-0.172 $\chi^2$/NDF: 681138.4/15

Left Out: 410.156+/-0.154 $\chi^2$/NDF:226559.0/4

Right Out: 605.373+/-0.162 $\chi^2$/NDF: 853994.0/18

Left In: 413.979+/-0.186 $\chi^2$/NDF:221599.4/2

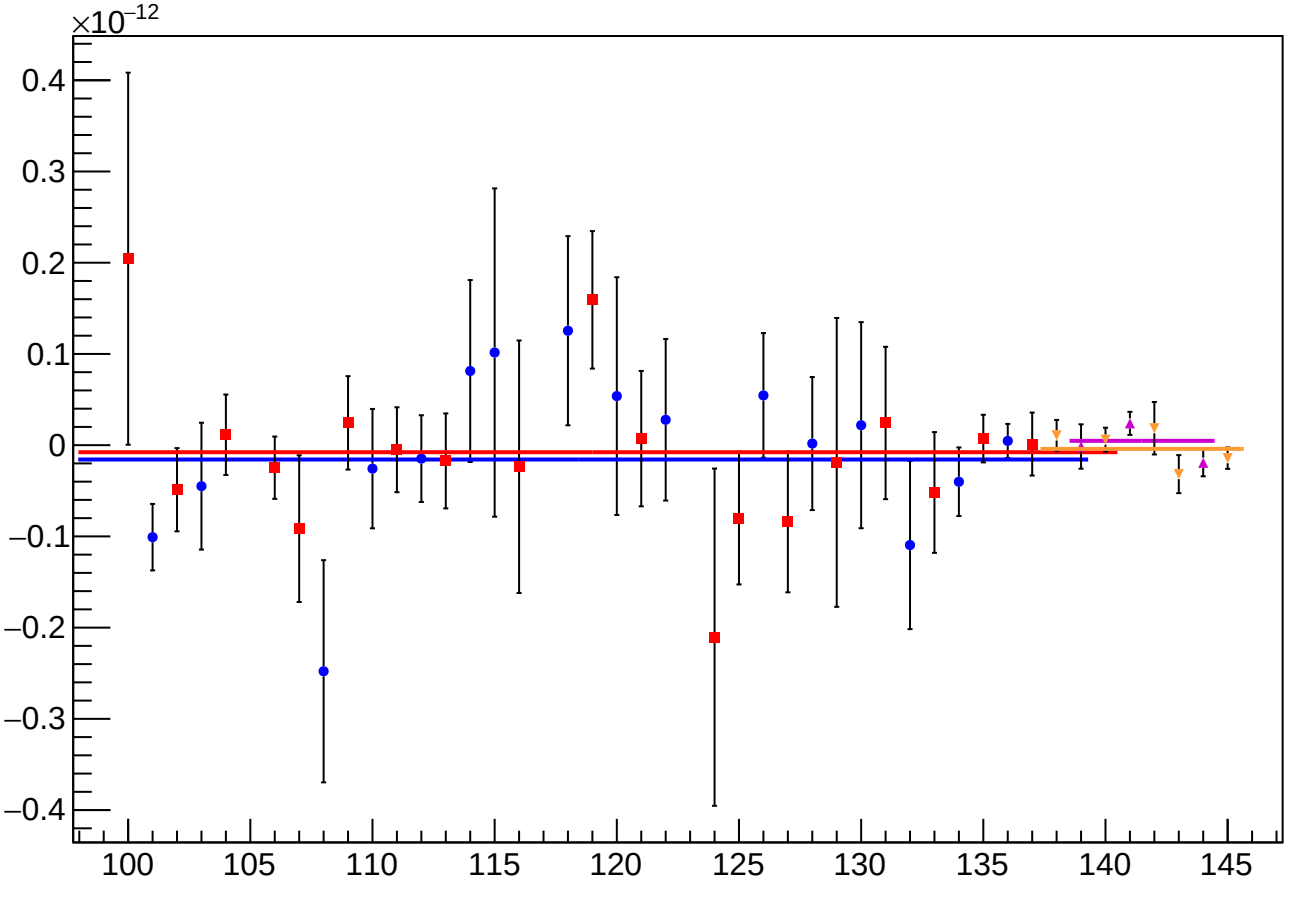
Left: 411.717+/-0.119 $\chi^2$/NDF: 448409.0/7

Right: 618.368+/-0.118 $\chi^2$/NDF: 1548821.0/34

In: 532.152+/-0.126 $\chi^2$/NDF:1652988.5/18

Out: 503.116+/-0.112 $\chi^2$/NDF:1842615.3/23

All: 515.890+/-0.084 $\chi^2$/NDF: 3525340.1/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:5.0/2

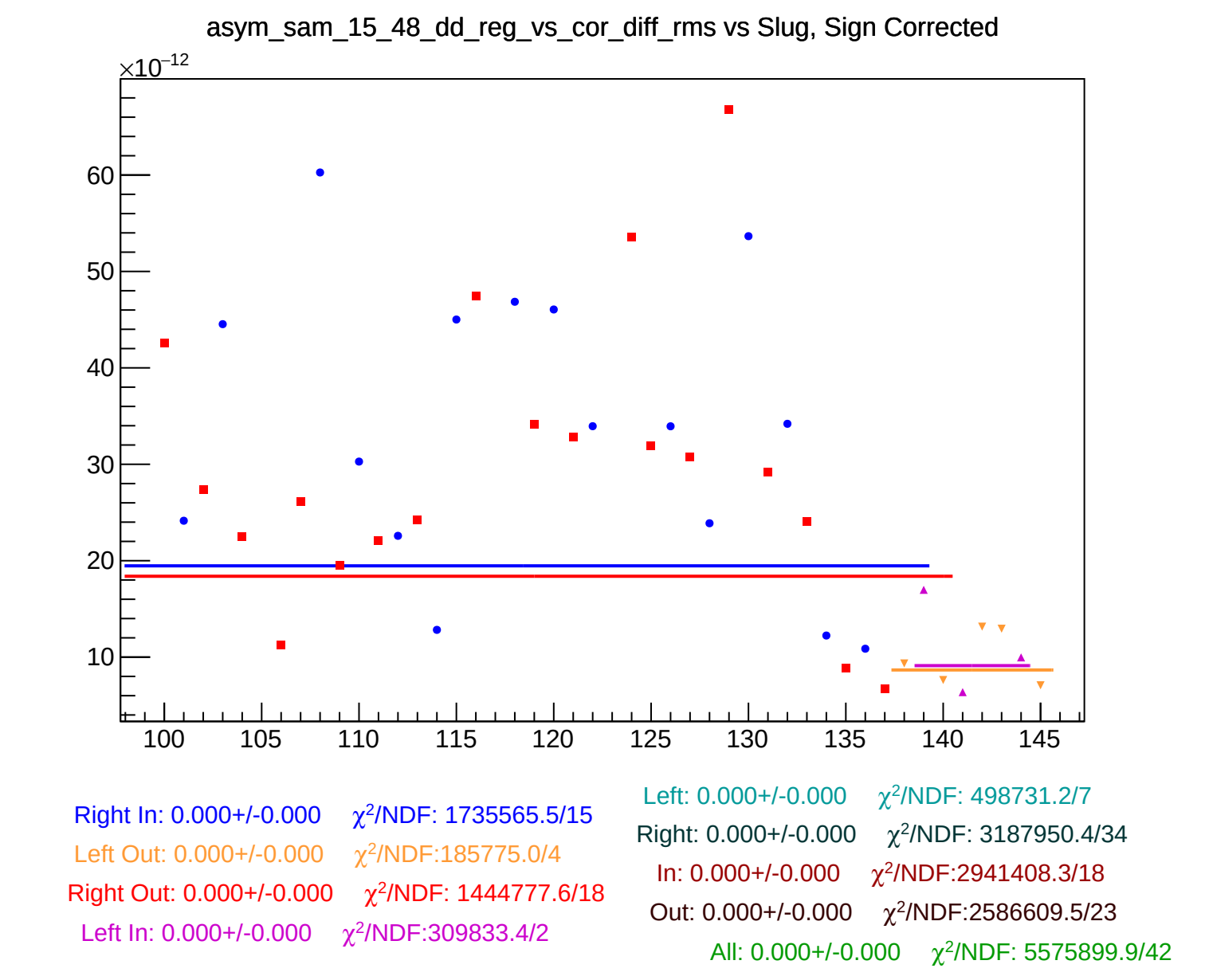
Left: -0.000+/-0.000 $\chi^2$/NDF: 10.1/7

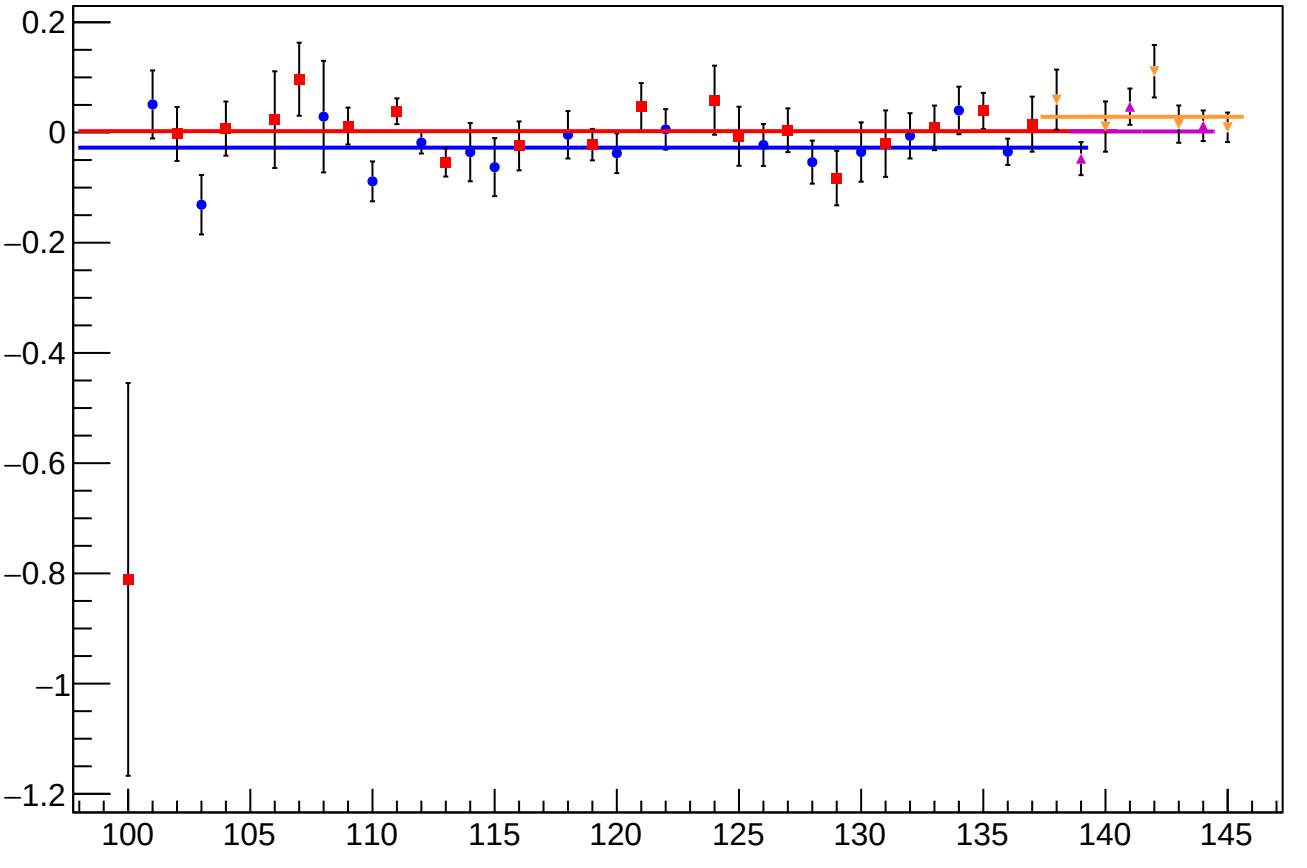
Right: -0.000+/-0.000 $\chi^2$/NDF: 30.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:17.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 41.3/42


asym_sam_15_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1735565.5/15
Left Out: 0.000+/-0.000 χ²/NDF:185775.0/4
Right Out: 0.000+/-0.000 χ²/NDF: 1444777.6/18
Left In: 0.000+/-0.000 χ²/NDF:309833.4/2
Left: 0.000+/-0.000 χ²/NDF: 498731.2/7
Right: 0.000+/-0.000 χ²/NDF: 3187950.4/34
In: 0.000+/-0.000 χ²/NDF:2941408.3/18
Out: 0.000+/-0.000 χ²/NDF:2586609.5/23
All: 0.000+/-0.000 χ²/NDF: 5575899.9/42




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.029+/-0.017 $\chi^2$/NDF:4.2/4

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: 0.002+/-0.017 $\chi^2$/NDF:4.7/2

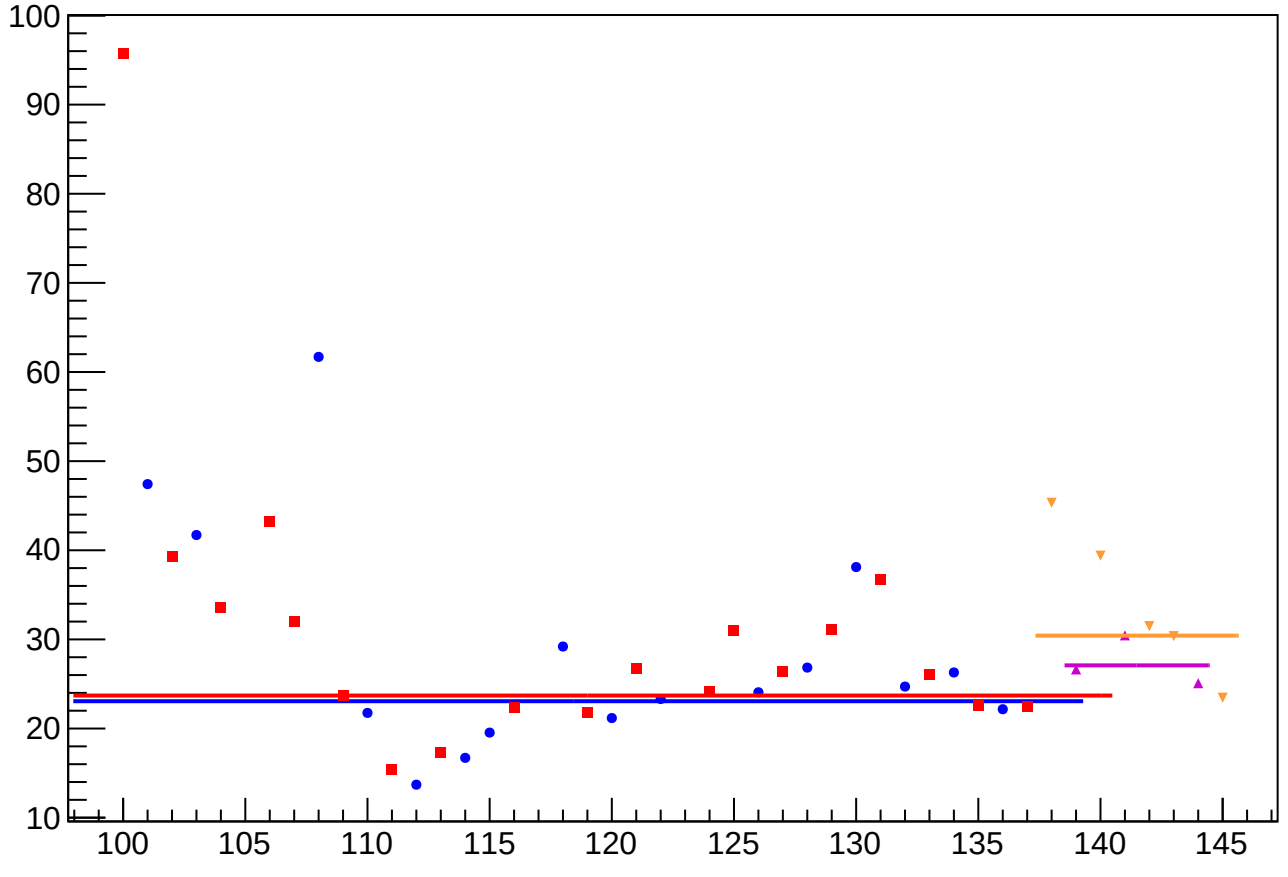
Left: 0.016+/-0.012 $\chi^2$/NDF: 10.1/7

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.021+/-0.008 $\chi^2$/NDF:20.6/18

Out: 0.009+/-0.008 $\chi^2$/NDF:28.1/23

All: -0.006+/-0.006 $\chi^2$/NDF: 55.1/42




Right In: 23.066+/-0.007 $\chi^2$/NDF: 1564478.6/15

Left Out: 30.424+/-0.012 $\chi^2$/NDF:363807.9/4

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088494.2/18

Left In: 27.088+/-0.012 $\chi^2$/NDF:31751.4/2

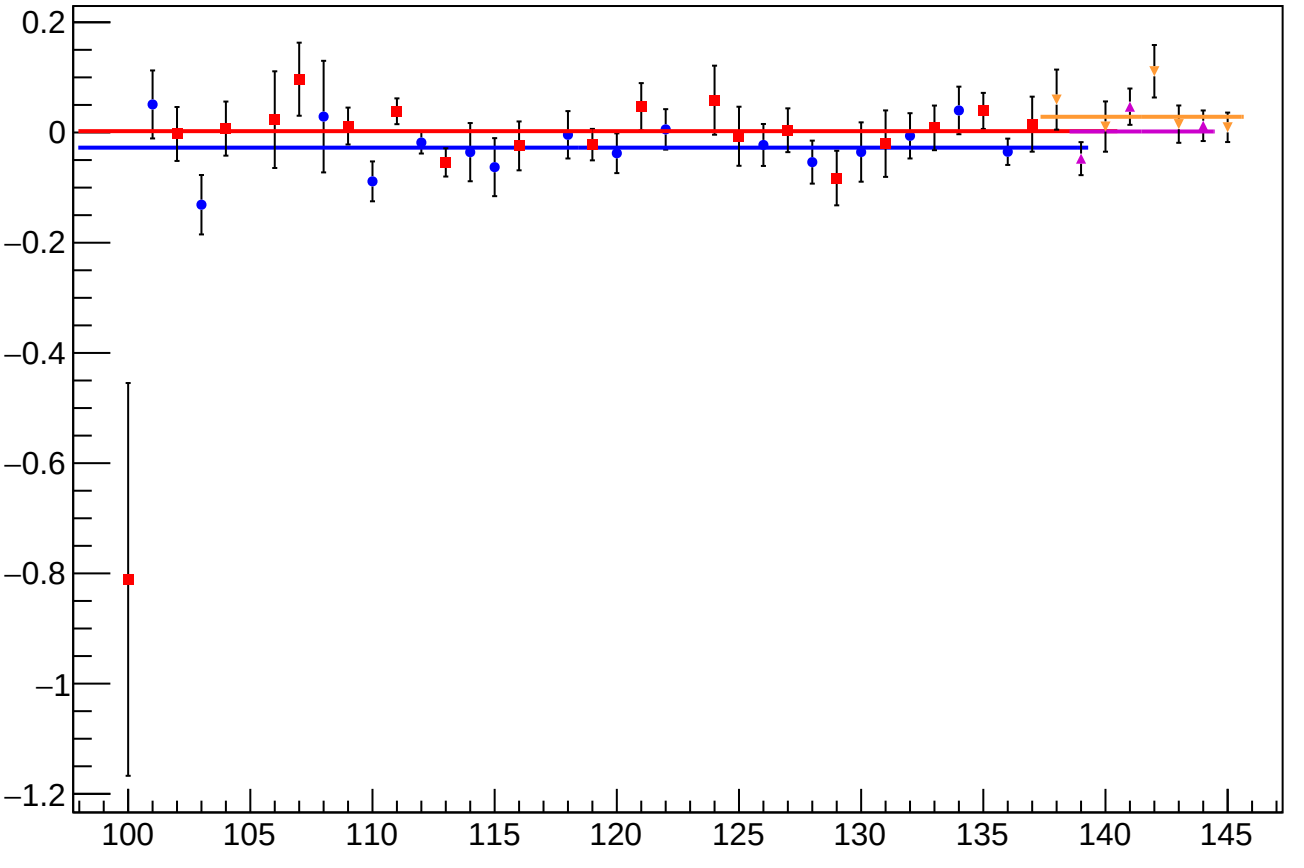
Left: 28.803+/-0.009 $\chi^2$/NDF: 433746.3/7

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657617.1/34

In: 23.980+/-0.006 $\chi^2$/NDF:1679595.5/18

Out: 25.272+/-0.006 $\chi^2$/NDF:1696788.4/23

All: 24.636+/-0.004 $\chi^2$/NDF: 3401240.9/42




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.029+/-0.017 $\chi^2$/NDF:4.2/4

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: 0.002+/-0.017 $\chi^2$/NDF:4.7/2

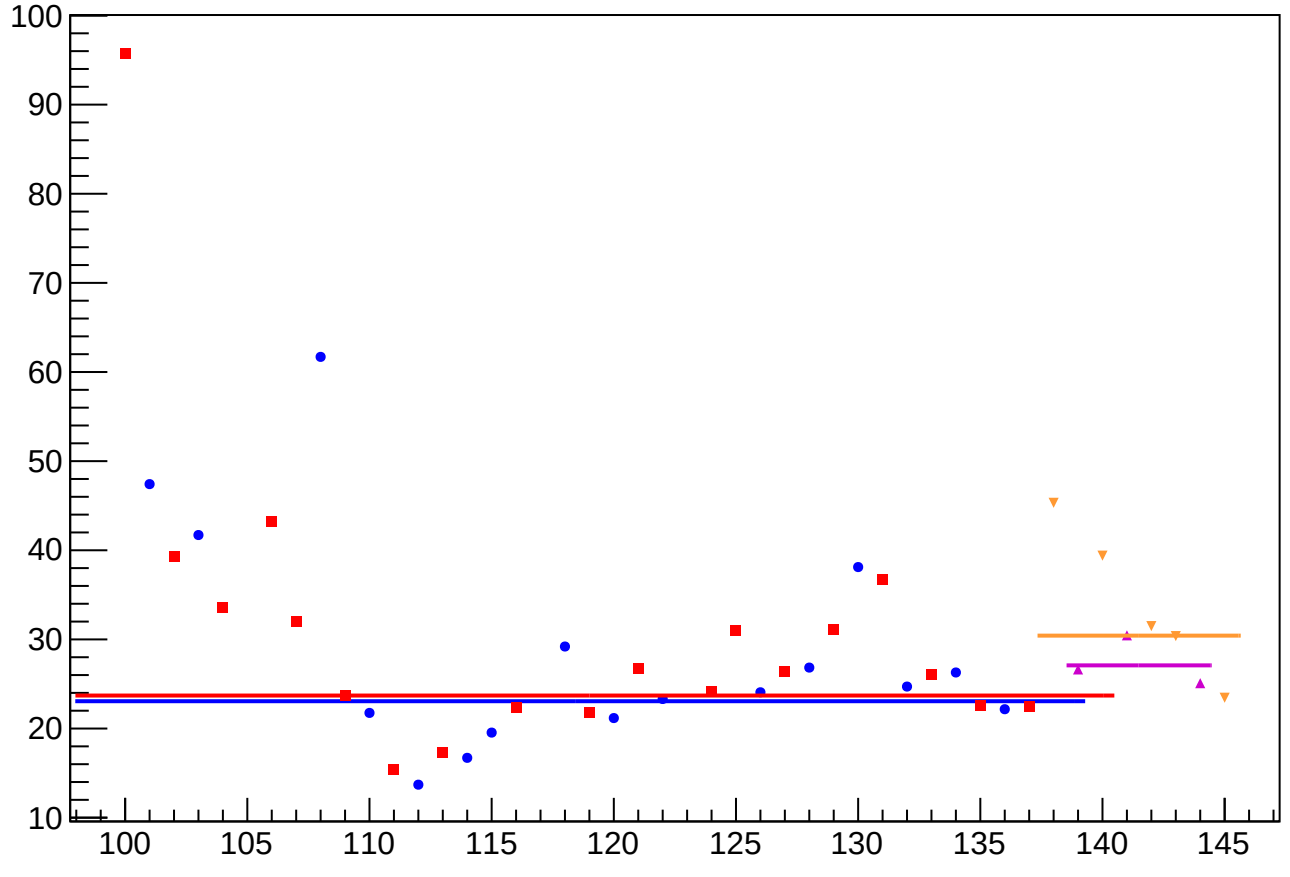
Left: 0.016+/-0.012 $\chi^2$/NDF: 10.1/7

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.021+/-0.008 $\chi^2$/NDF:20.6/18

Out: 0.009+/-0.008 $\chi^2$/NDF:28.1/23

All: -0.006+/-0.006 $\chi^2$/NDF: 55.1/42




Right In: 23.066+/-0.007 $\chi^2$/NDF: 1564478.6/15

Left Out: 30.424+/-0.012 $\chi^2$/NDF:363807.9/4

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088494.2/18

Left In: 27.088+/-0.012 $\chi^2$/NDF:31751.4/2

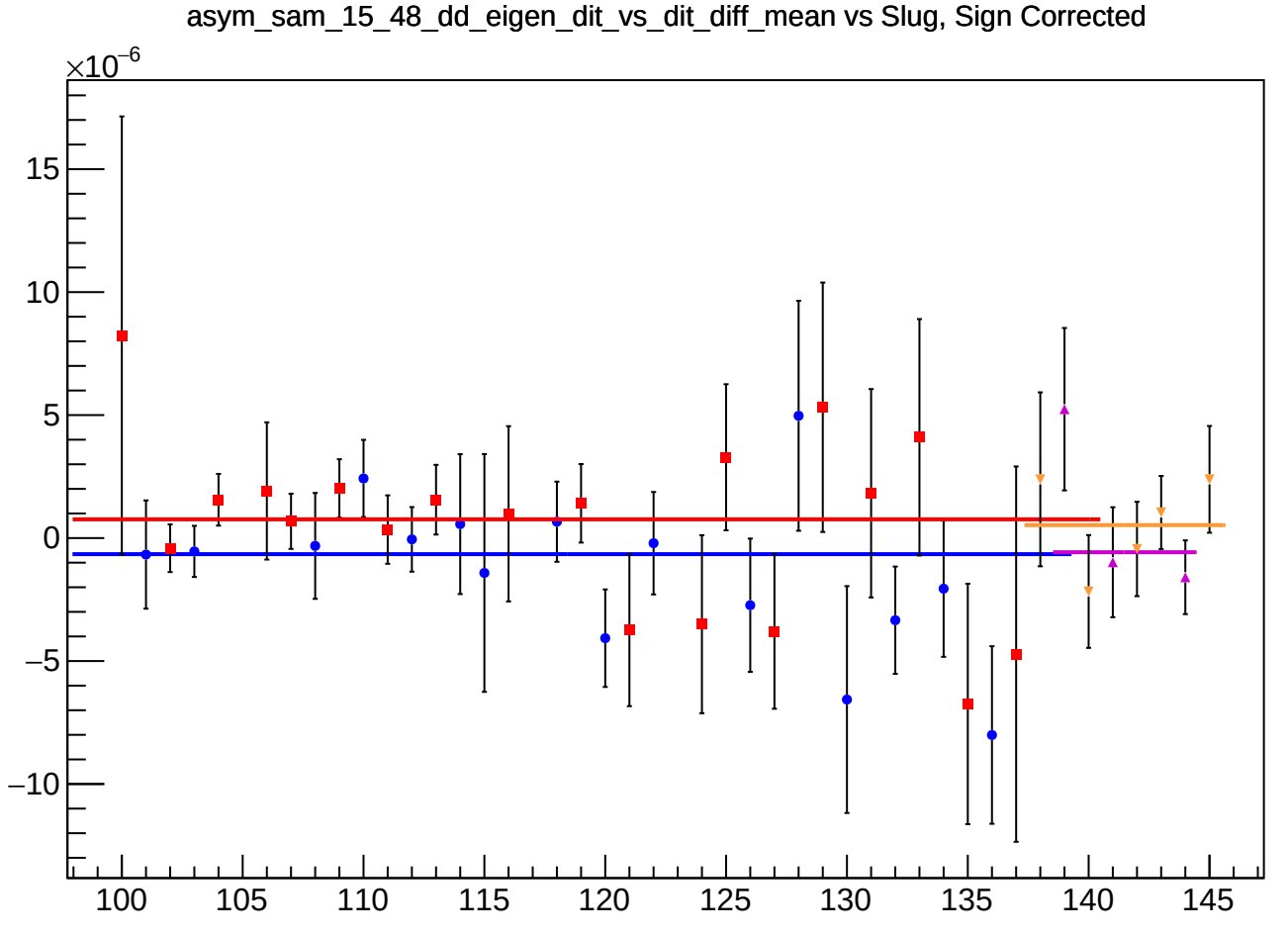
Left: 28.803+/-0.009 $\chi^2$/NDF: 433746.3/7

Right: 23.387+/-0.005 $\chi^2$/NDF: 2657617.1/34

In: 23.980+/-0.006 $\chi^2$/NDF:1679595.5/18

Out: 25.272+/-0.006 $\chi^2$/NDF:1696788.4/23

All: 24.636+/-0.004 $\chi^2$/NDF: 3401240.9/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 15.2/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.6/2

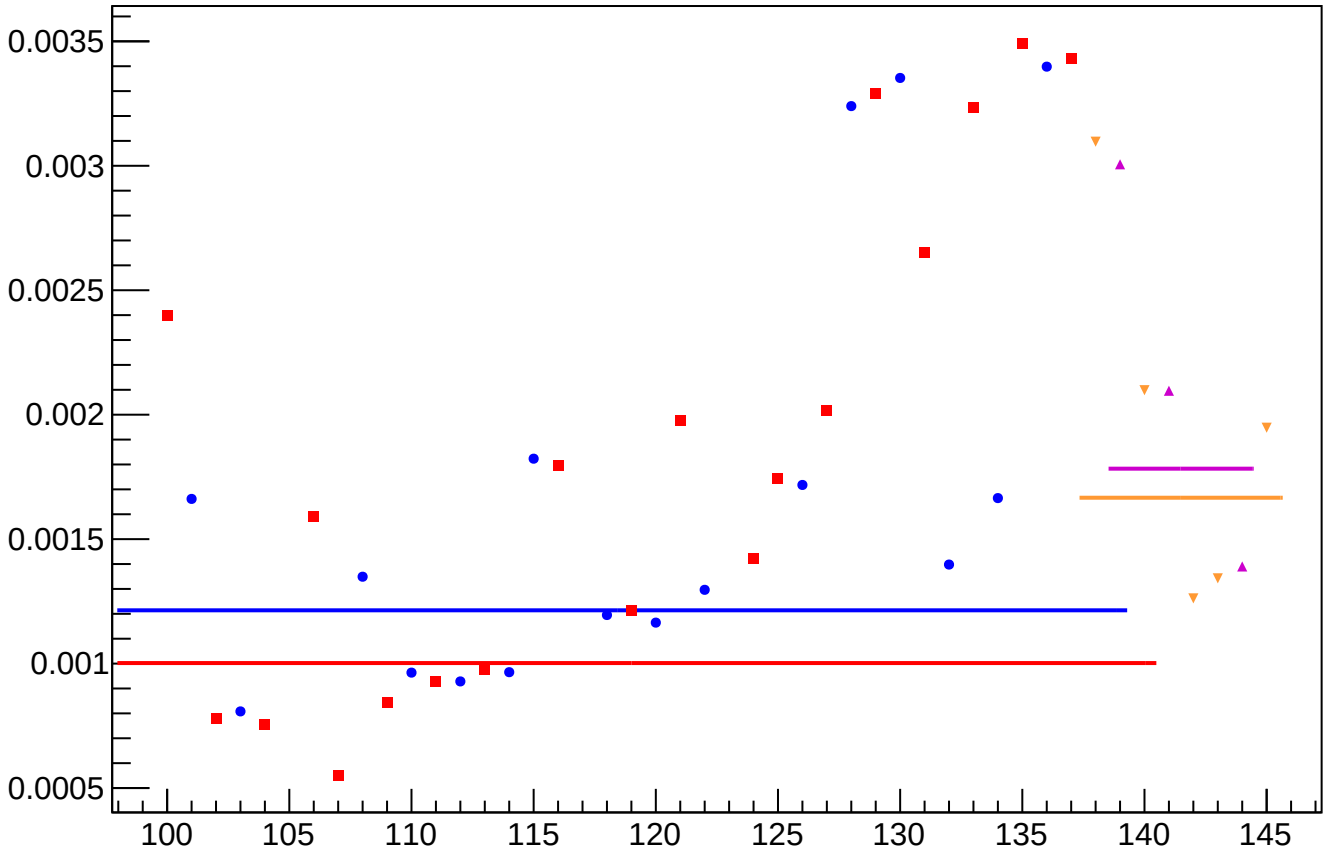
Left: 0.000+/-0.000 $\chi^2$/NDF: 6.9/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:21.2/18

Out: 0.000+/-0.000 $\chi^2$/NDF:18.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 44.4/42




Right In: 0.001+/-0.000 $\chi^2$/NDF: 2267402.2/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:615601.8/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3277225.7/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:451022.2/2

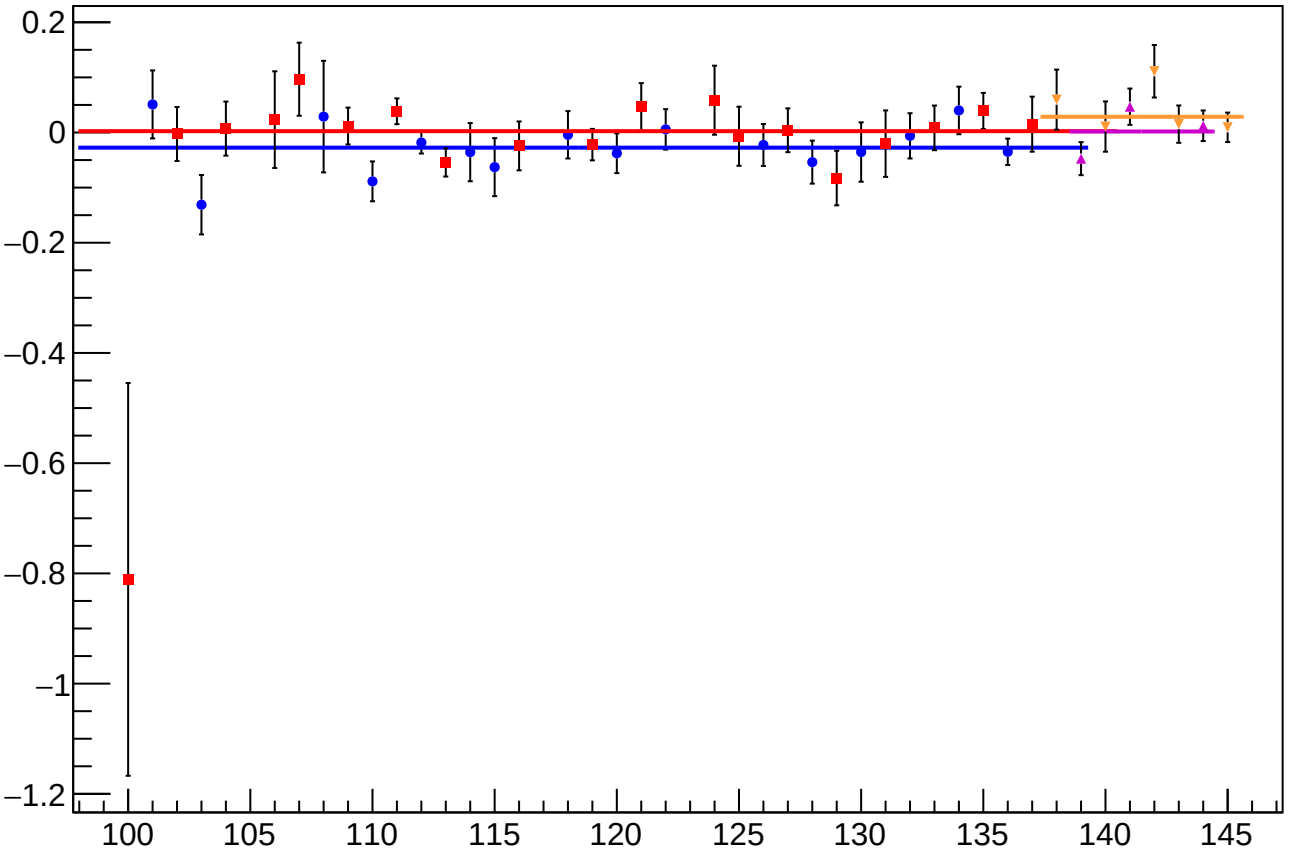
Left: 0.002+/-0.000 $\chi^2$/NDF: 1079090.0/7

Right: 0.001+/-0.000 $\chi^2$/NDF: 5755876.1/34

In: 0.001+/-0.000 $\chi^2$/NDF:3121571.1/18

Out: 0.001+/-0.000 $\chi^2$/NDF:4771341.3/23

All: 0.001+/-0.000 $\chi^2$/NDF: 8083547.3/42




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.029+/-0.017 $\chi^2$/NDF:4.2/4

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: 0.002+/-0.017 $\chi^2$/NDF:4.7/2

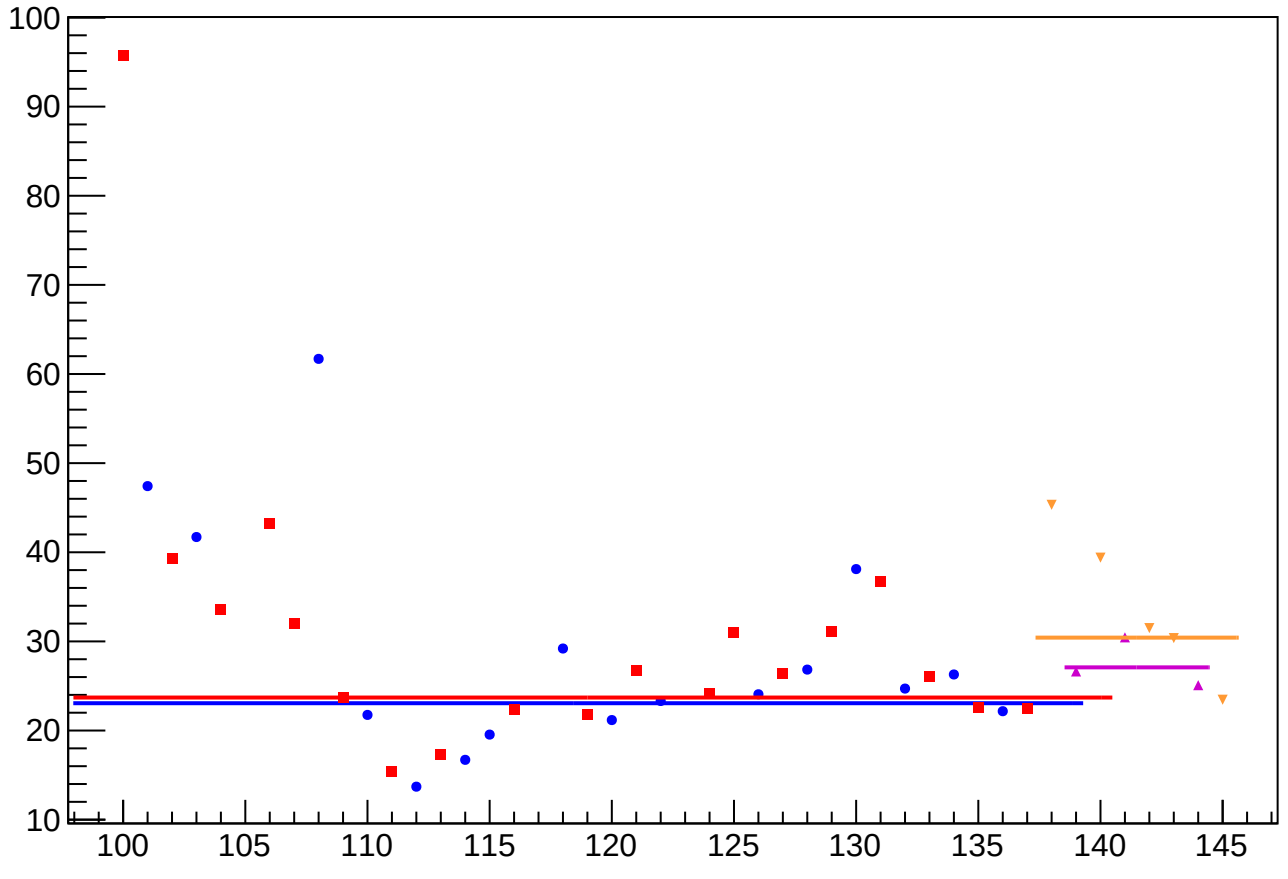
Left: 0.016+/-0.012 $\chi^2$/NDF: 10.1/7

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.021+/-0.008 $\chi^2$/NDF:20.6/18

Out: 0.009+/-0.008 $\chi^2$/NDF:28.1/23

All: -0.006+/-0.006 $\chi^2$/NDF: 55.1/42




Right In: 23.065+/-0.007 $\chi^2$/NDF: 1564493.0/15

Left Out: 30.425+/-0.012 $\chi^2$/NDF:363757.0/4

Right Out: 23.702+/-0.007 $\chi^2$/NDF: 1088531.8/18

Left In: 27.087+/-0.012 $\chi^2$/NDF:31748.6/2

Left: 28.803+/-0.009 $\chi^2$/NDF: 433706.7/7

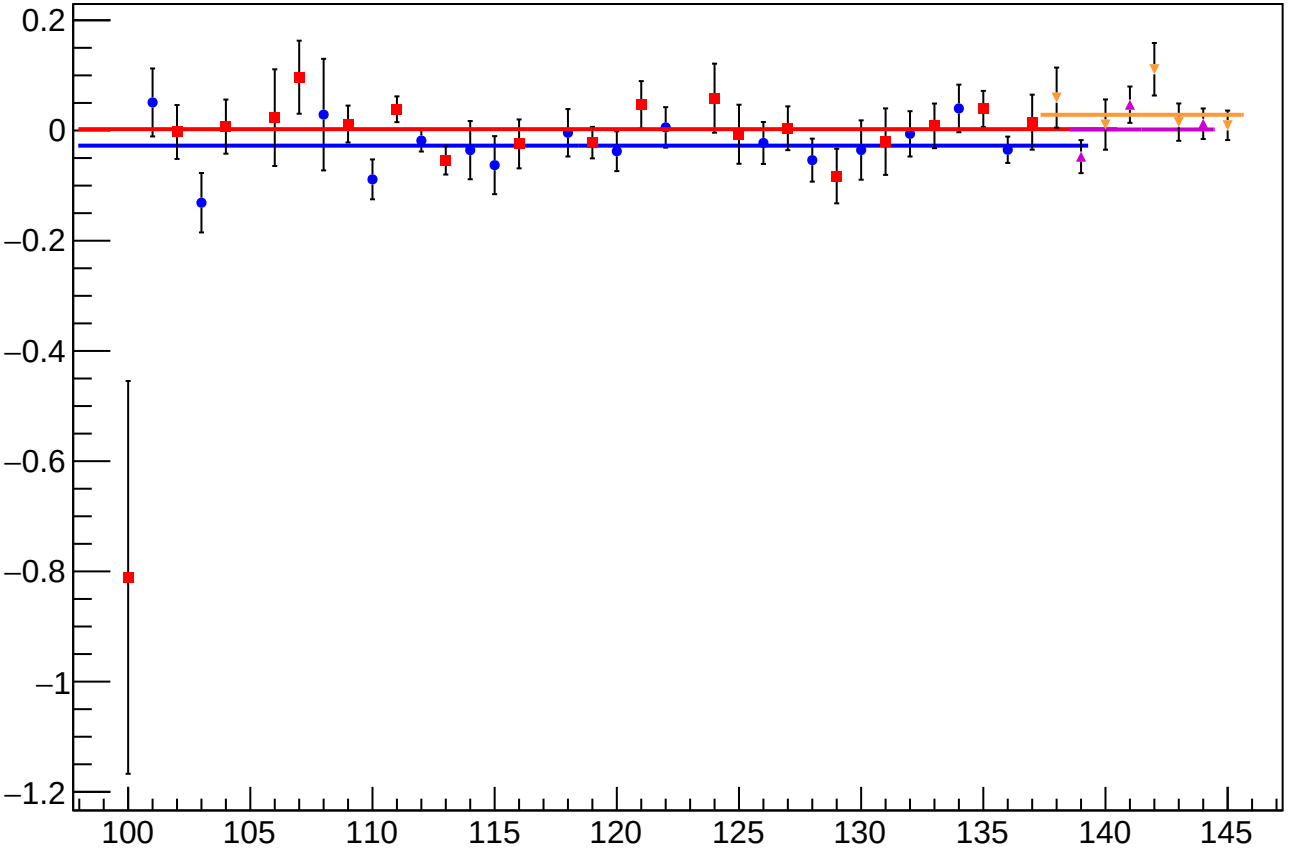
Right: 23.387+/-0.005 $\chi^2$/NDF: 2657668.5/34

In: 23.980+/-0.006 $\chi^2$/NDF:1679611.5/18

Out: 25.272+/-0.006 $\chi^2$/NDF:1696826.3/23

All: 24.636+/-0.004 $\chi^2$/NDF: 3401297.7/42

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.027+/-0.009 $\chi^2$/NDF: 13.7/15

Left Out: 0.029+/-0.017 $\chi^2$/NDF:4.2/4

Right Out: 0.002+/-0.009 $\chi^2$/NDF: 22.1/18

Left In: 0.002+/-0.017 $\chi^2$/NDF:4.7/2

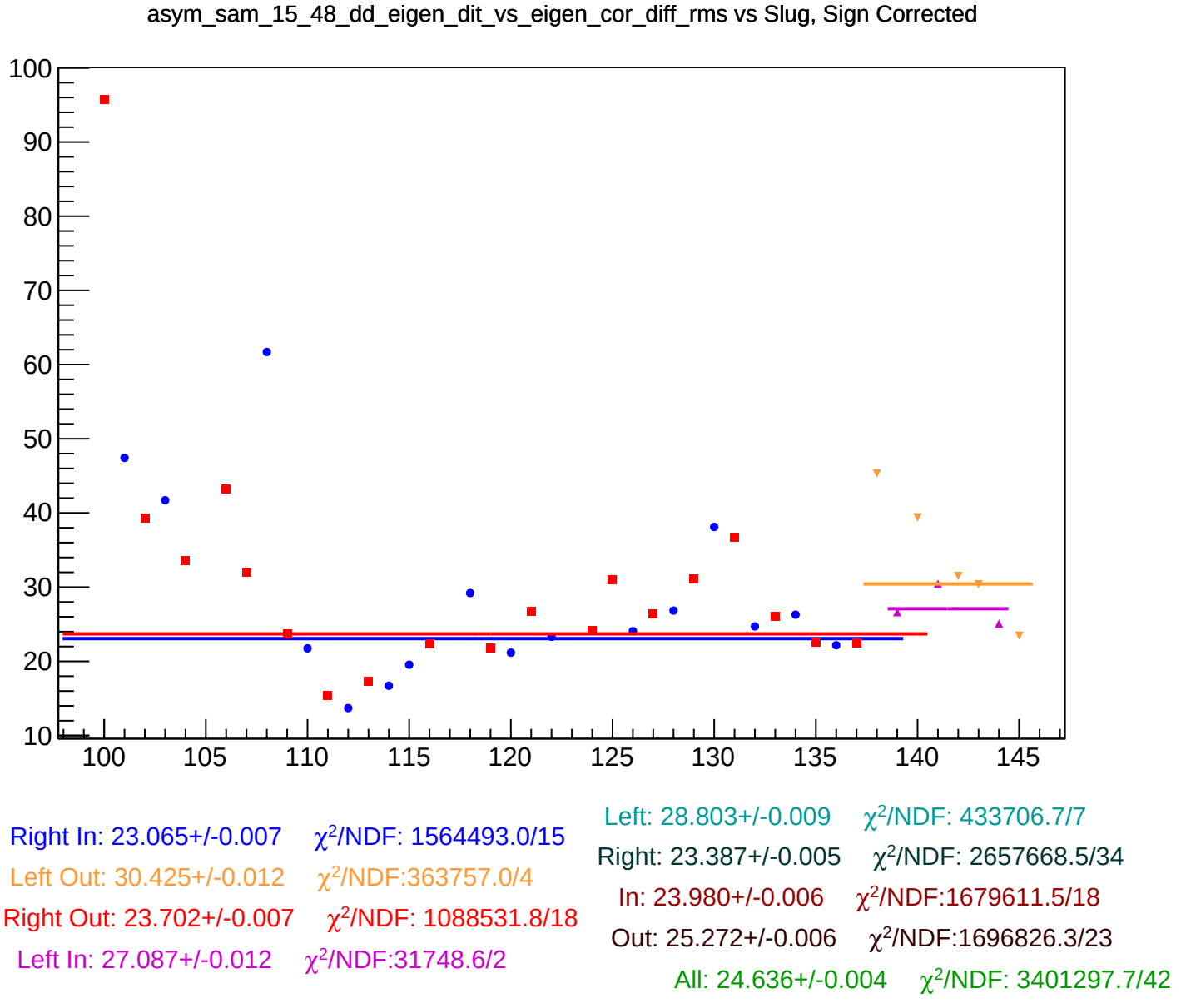
Left: 0.016+/-0.012 $\chi^2$/NDF: 10.1/7

Right: -0.012+/-0.007 $\chi^2$/NDF: 40.9/34

In: -0.021+/-0.008 $\chi^2$/NDF:20.6/18

Out: 0.009+/-0.008 $\chi^2$/NDF:28.1/23

All: -0.006+/-0.006 $\chi^2$/NDF: 55.1/42


asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
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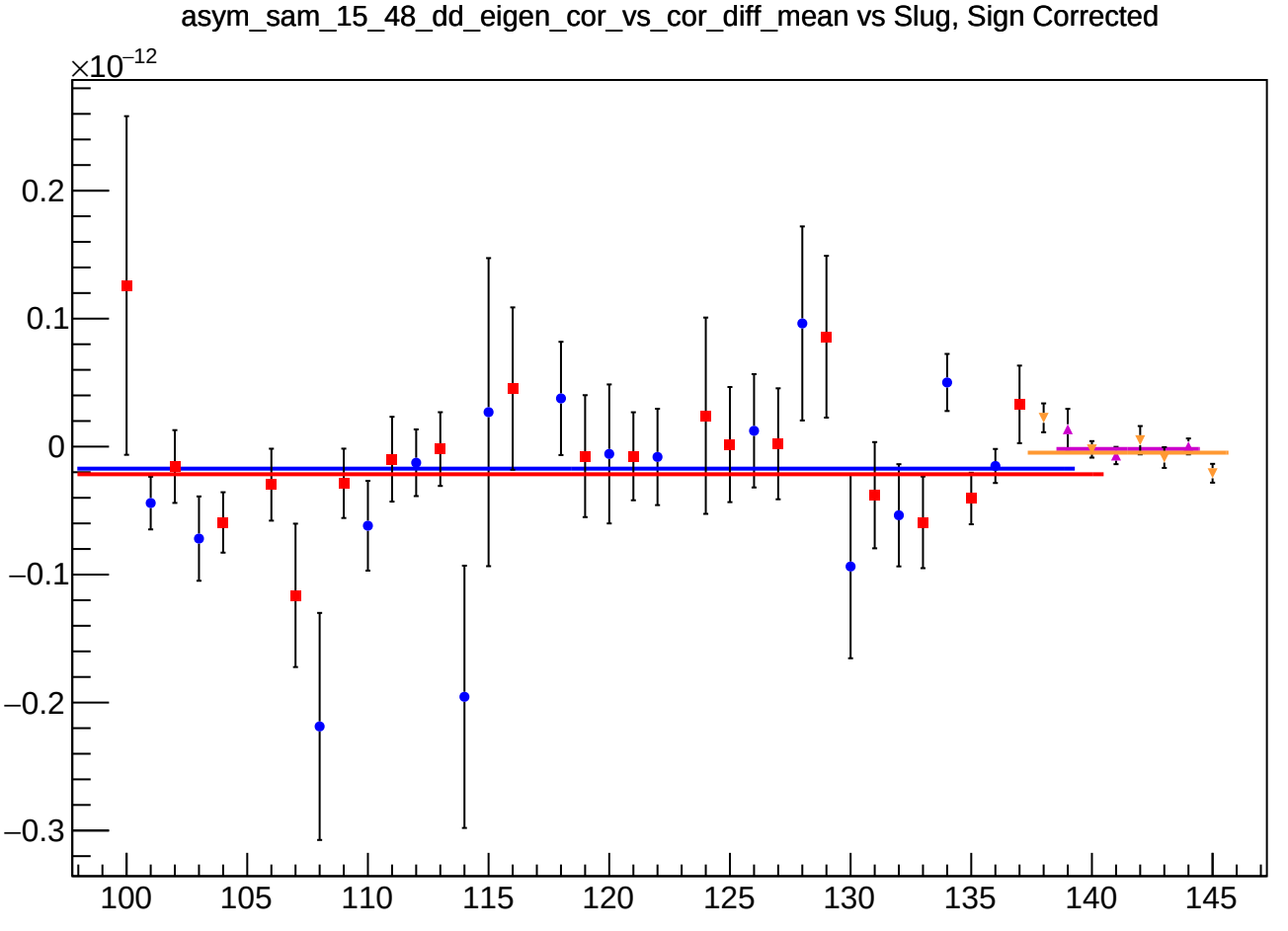
Right In: 23.065+/-0.007 χ²/NDF: 1564493.0/15
Left Out: 30.425+/-0.012 χ²/NDF:363757.0/4
Right Out: 23.702+/-0.007 χ²/NDF: 1088531.8/18
Left In: 27.087+/-0.012 χ²/NDF:31748.6/2
Left: 28.803+/-0.009 χ²/NDF: 433706.7/7
Right: 23.387+/-0.005 χ²/NDF: 2657668.5/34
In: 23.980+/-0.006 χ²/NDF:1679611.5/18
Out: 25.272+/-0.006 χ²/NDF:1696826.3/23
All: 24.636+/-0.004 χ²/NDF: 3401297.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 29.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:11.8/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.6/2

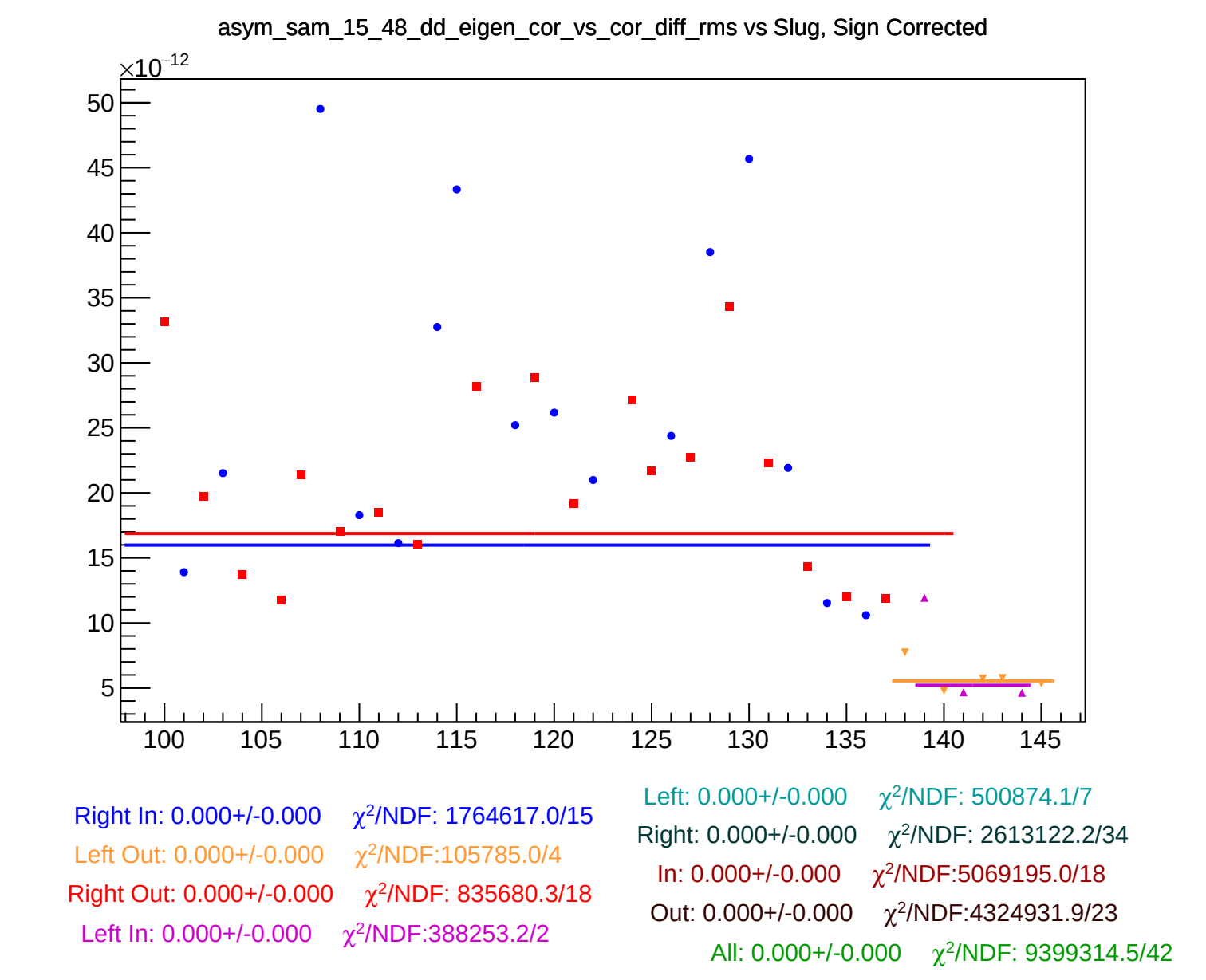
Left: -0.000+/-0.000 $\chi^2$/NDF: 13.7/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 48.0/34

In: -0.000+/-0.000 $\chi^2$/NDF:34.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:33.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 68.2/42


asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
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45
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35
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25
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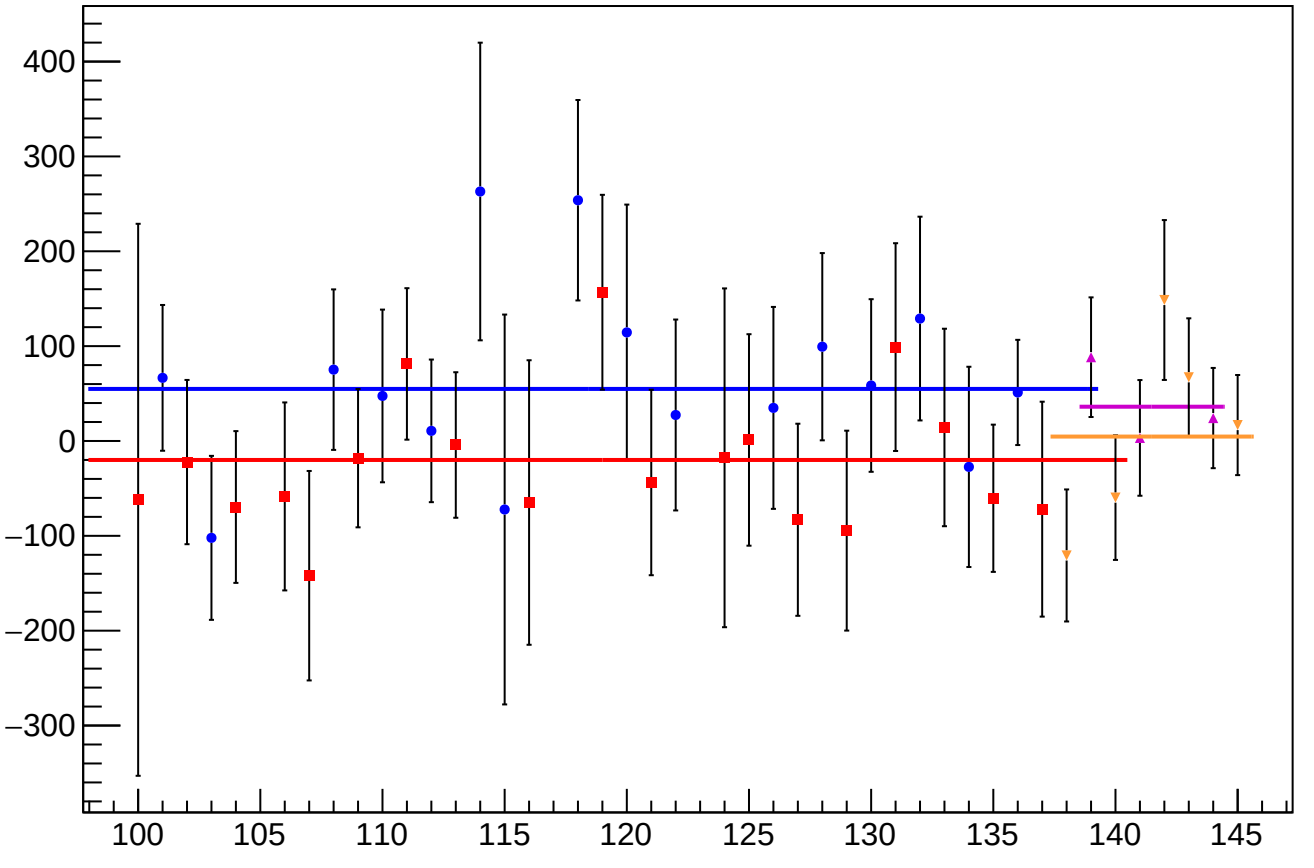
5
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1764617.0/15
Left Out: 0.000+/-0.000 χ²/NDF:105785.0/4
Right Out: 0.000+/-0.000 χ²/NDF: 835680.3/18
Left In: 0.000+/-0.000 χ²/NDF:388253.2/2
Left: 0.000+/-0.000 χ²/NDF: 500874.1/7
Right: 0.000+/-0.000 χ²/NDF: 2613122.2/34
In: 0.000+/-0.000 χ²/NDF:5069195.0/18
Out: 0.000+/-0.000 χ²/NDF:4324931.9/23
All: 0.000+/-0.000 χ²/NDF: 9399314.5/42




Right In: 54.883+/-23.179 $\chi^2$/NDF: 11.0/15

Left Out: 4.651+/-28.909 $\chi^2$/NDF:8.2/4

Right Out: -20.020+/-22.571 $\chi^2$/NDF: 9.2/18

Left In: 36.130+/-33.741 $\chi^2$/NDF:1.0/2

Left: 17.977+/-21.953 $\chi^2$/NDF: 9.7/7

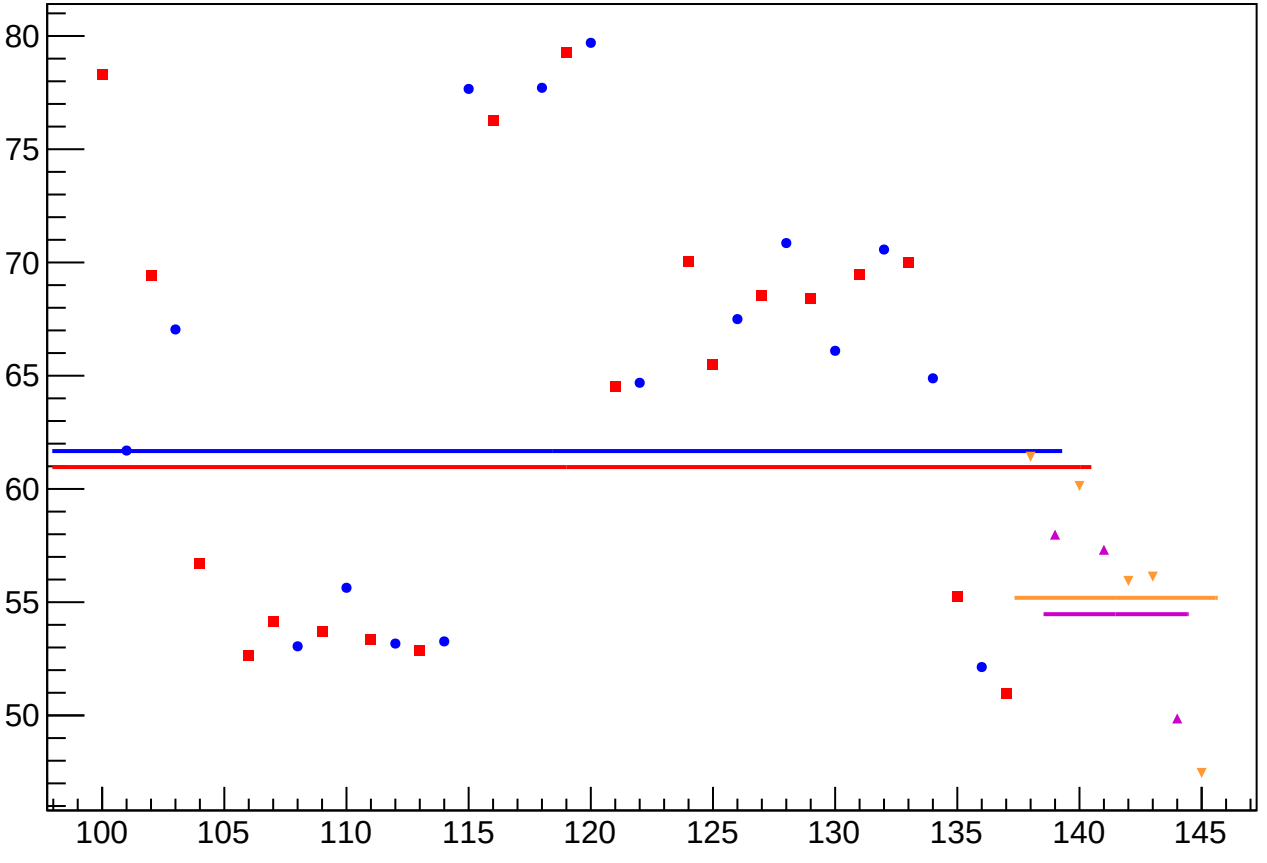
Right: 16.437+/-16.171 $\chi^2$/NDF: 25.6/34

In: 48.871+/-19.105 $\chi^2$/NDF:12.3/18

Out: -10.676+/-17.791 $\chi^2$/NDF:17.9/23

All: 16.979+/-13.020 $\chi^2$/NDF: 35.3/42

# reg_asym_sam_37_48_dd_rms vs Slug, Sign Corrected




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.1/15

Left Out: 55.193+/-0.020 $\chi^2$/NDF:70864.7/4

Right Out: 60.967+/-0.016 $\chi^2$/NDF: 284183.4/18

Left In: 54.471+/-0.024 $\chi^2$/NDF:25738.7/2

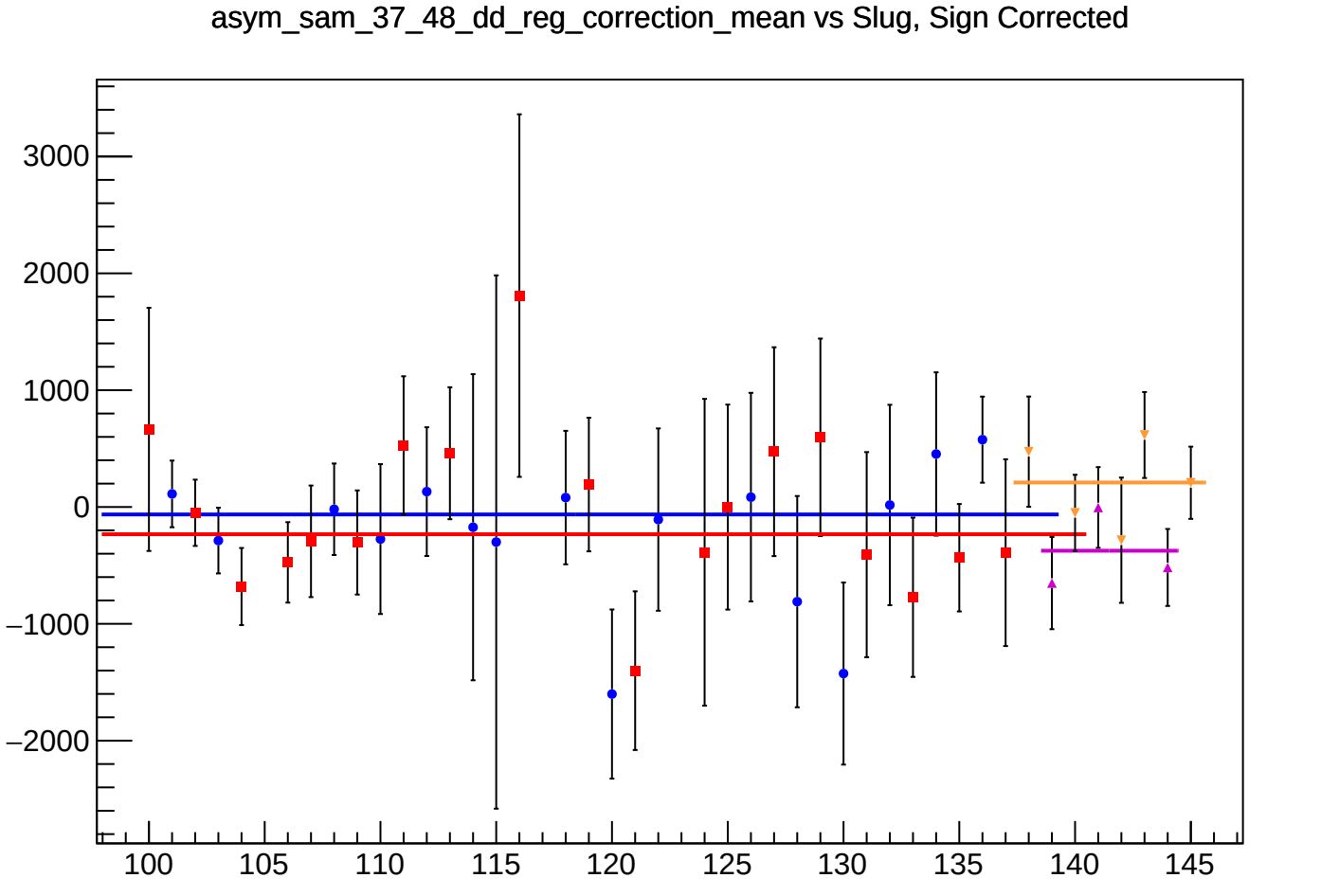
Left: 54.888+/-0.016 $\chi^2$/NDF: 97131.5/7

Right: 61.310+/-0.011 $\chi^2$/NDF: 552244.9/34

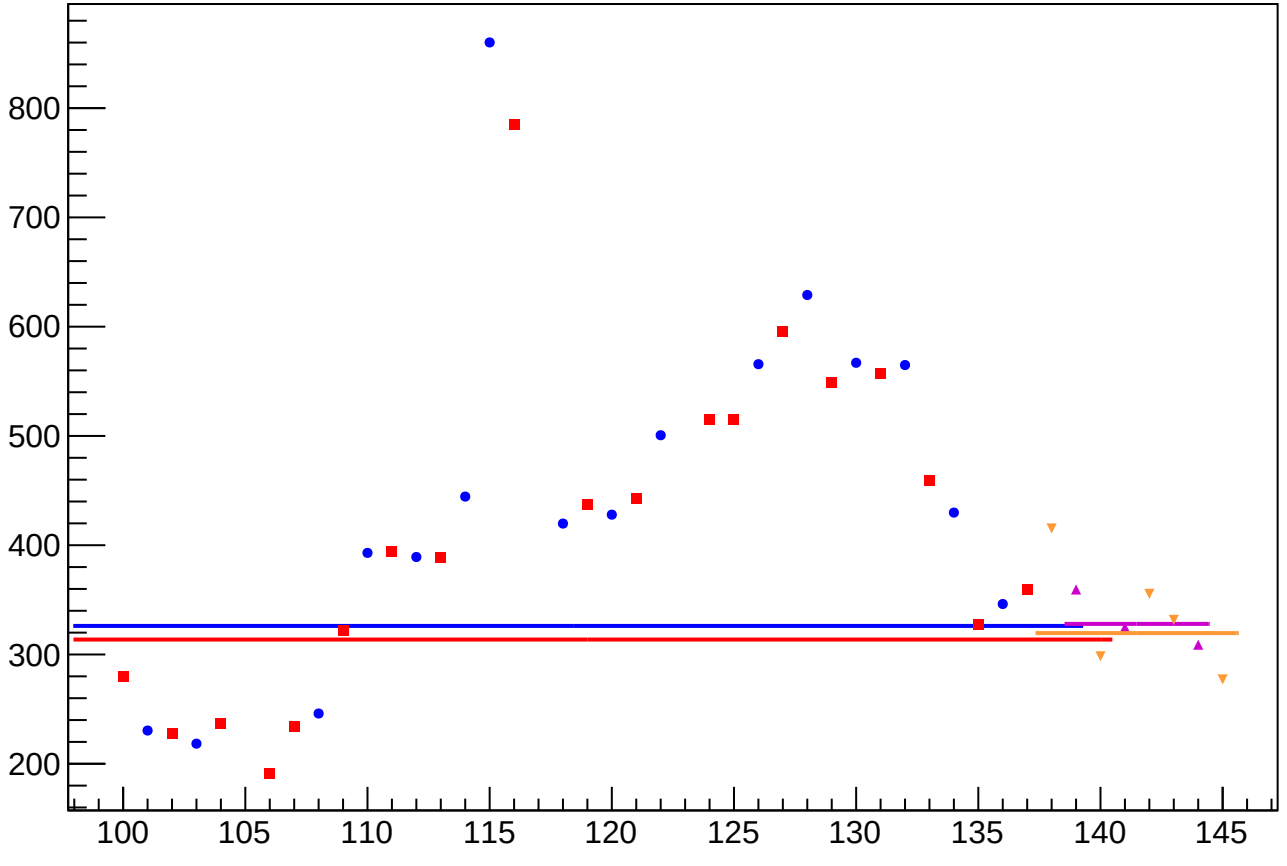
In: 59.364+/-0.014 $\chi^2$/NDF:354749.4/18

Out: 58.780+/-0.013 $\chi^2$/NDF:404605.1/23

All: 59.051+/-0.009 $\chi^2$/NDF: 760355.1/42


asym_sam_37_48_dd_reg_correction_mean vs Slug, Sign Corrected
3000
2000
1000
0
−1000
−2000
100
105
110
115
120
125
130
135
140
145
Right In: -63.834+/-129.674 χ²/NDF: 13.2/15
Left Out: 209.711+/-168.441 χ²/NDF:3.0/4
Right Out: -233.206+/-122.791 χ²/NDF: 14.5/18
Left In: -374.304+/-204.136 χ²/NDF:1.8/2
Left: -26.853+/-129.922 χ²/NDF: 9.7/7
Right: -153.135+/-89.161 χ²/NDF: 28.6/34
In: -153.097+/-109.457 χ²/NDF:16.7/18
Out: -79.509+/-99.225 χ²/NDF:22.0/23
All: -112.703+/-73.514 χ²/NDF: 39.0/42

asym_sam_37_48_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 326.147+/-0.092 $\chi^2$/NDF: 1733995.5/15

Left Out: 319.594+/-0.119 $\chi^2$/NDF:139638.4/4

Right Out: 313.672+/-0.087 $\chi^2$/NDF: 1787347.3/18

Left In: 327.997+/-0.144 $\chi^2$/NDF:19587.4/2

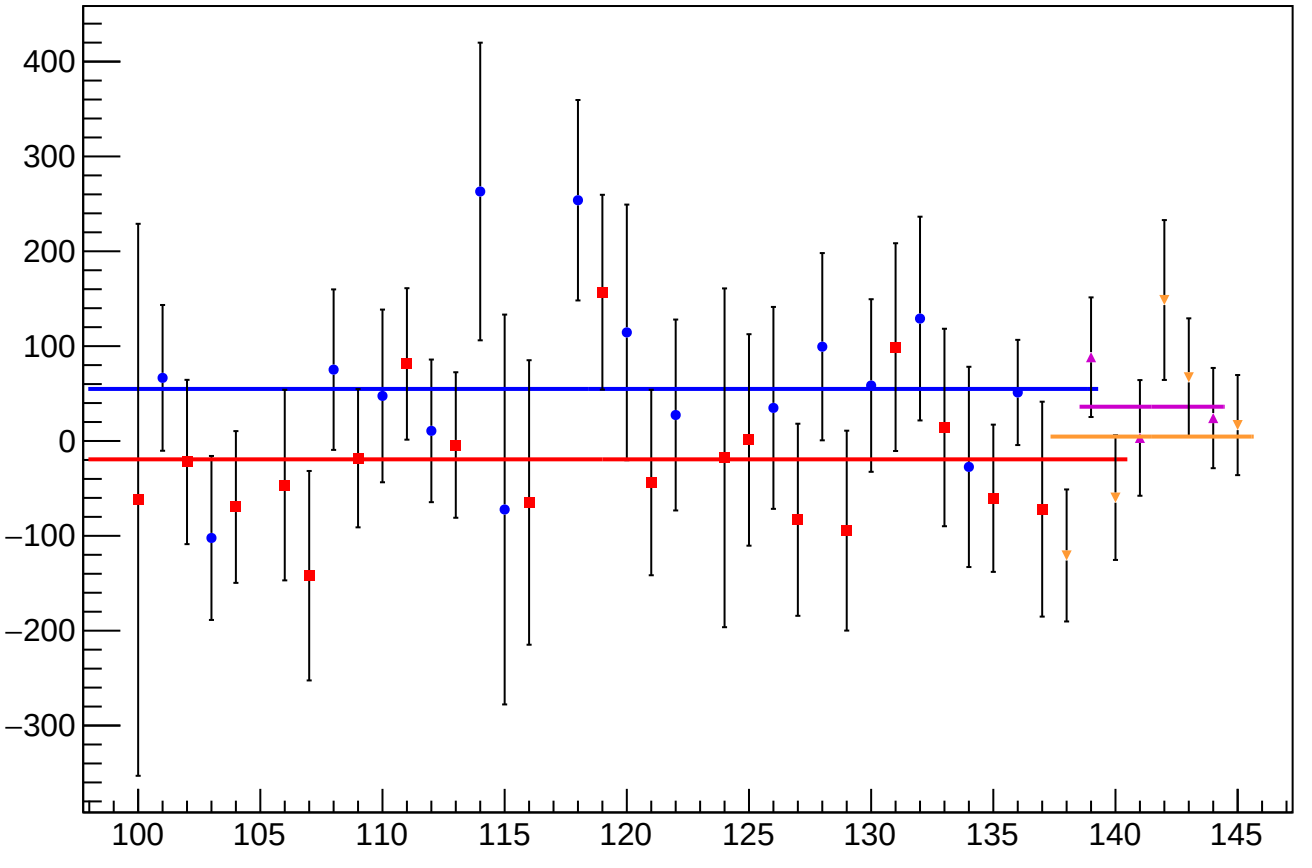
Left: 322.998+/-0.092 $\chi^2$/NDF: 161242.2/7

Right: 319.570+/-0.063 $\chi^2$/NDF: 3531102.5/34

In: 326.679+/-0.077 $\chi^2$/NDF:1753699.9/18

Out: 315.727+/-0.070 $\chi^2$/NDF:1928599.8/23

All: 320.667+/-0.052 $\chi^2$/NDF: 3693291.2/42




Right In: 54.877+/-23.179 $\chi^2$/NDF: 11.0/15

Left Out: 4.642+/-28.909 $\chi^2$/NDF:8.2/4

Right Out: -19.352+/-22.588 $\chi^2$/NDF: 9.2/18

Left In: 36.125+/-33.741 $\chi^2$/NDF:1.0/2

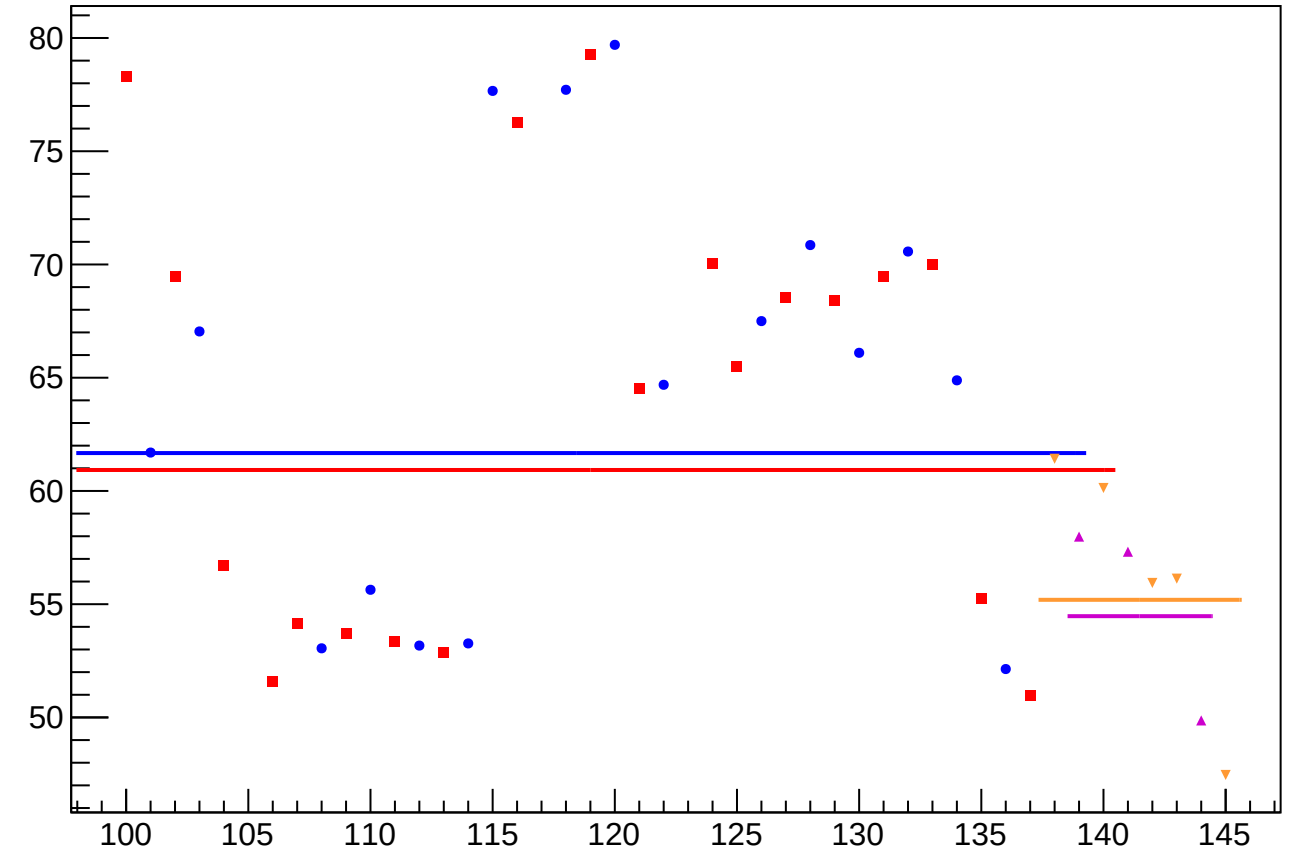
Left: 17.970+/-21.953 $\chi^2$/NDF: 9.7/7

Right: 16.804+/-16.177 $\chi^2$/NDF: 25.4/34

In: 48.865+/-19.105 $\chi^2$/NDF:12.3/18

Out: -10.257+/-17.799 $\chi^2$/NDF:17.8/23

All: 17.214+/-13.023 $\chi^2$/NDF: 35.2/42




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.3/15

Left Out: 55.193+/-0.020 $\chi^2$/NDF:70864.7/4

Right Out: 60.926+/-0.016 $\chi^2$/NDF: 287579.6/18

Left In: 54.471+/-0.024 $\chi^2$/NDF:25738.7/2

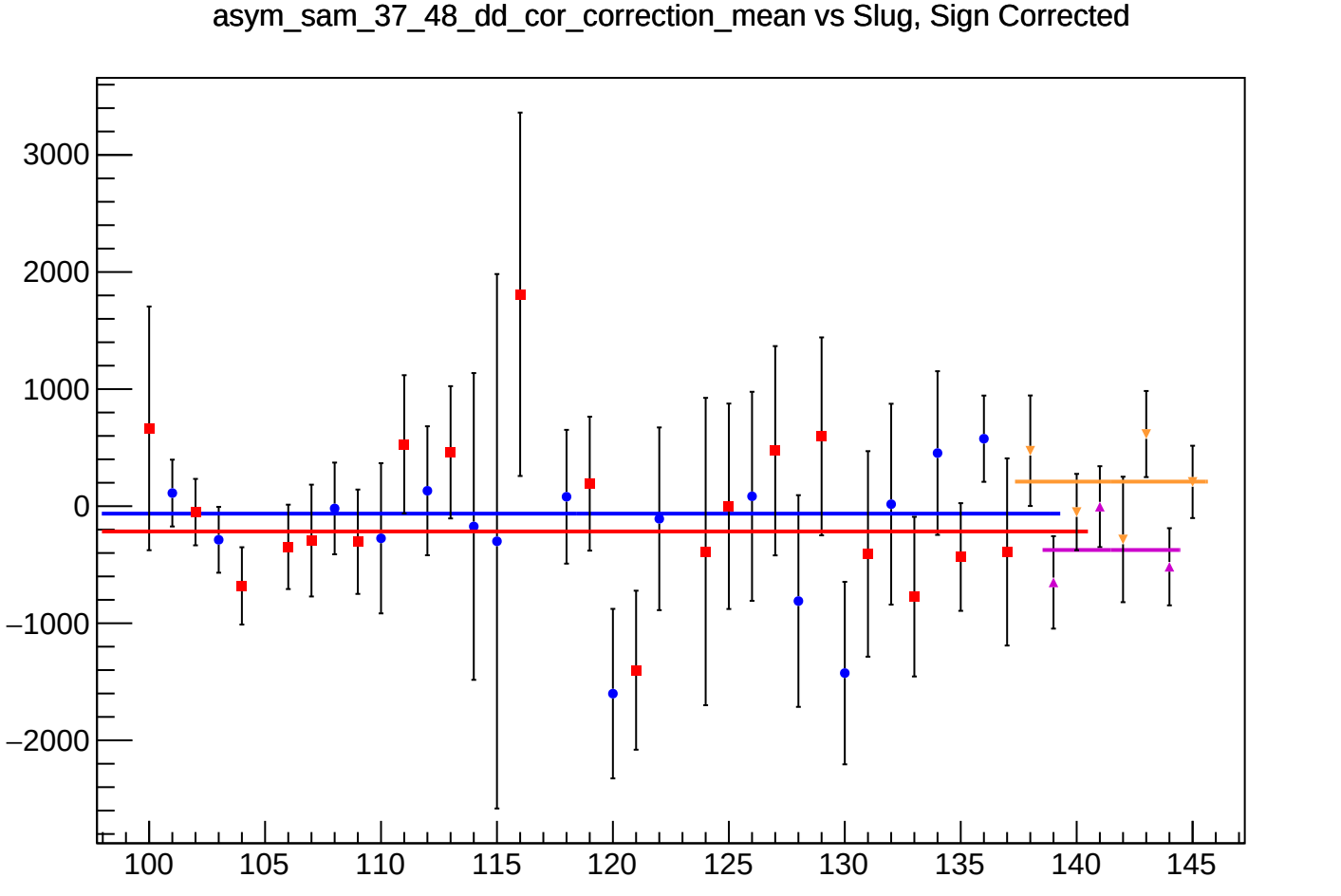
Left: 54.888+/-0.016 $\chi^2$/NDF: 97131.5/7

Right: 61.290+/-0.011 $\chi^2$/NDF: 555754.0/34

In: 59.364+/-0.014 $\chi^2$/NDF:354749.6/18

Out: 58.753+/-0.013 $\chi^2$/NDF:407276.2/23

All: 59.037+/-0.009 $\chi^2$/NDF: 763121.9/42




Right In: -63.820+/-129.675 $\chi^2$/NDF: 13.2/15

Left Out: 209.704+/-168.441 $\chi^2$/NDF:3.0/4

Right Out: -215.911+/-123.491 $\chi^2$/NDF: 14.1/18

Left In: -374.305+/-204.136 $\chi^2$/NDF:1.8/2

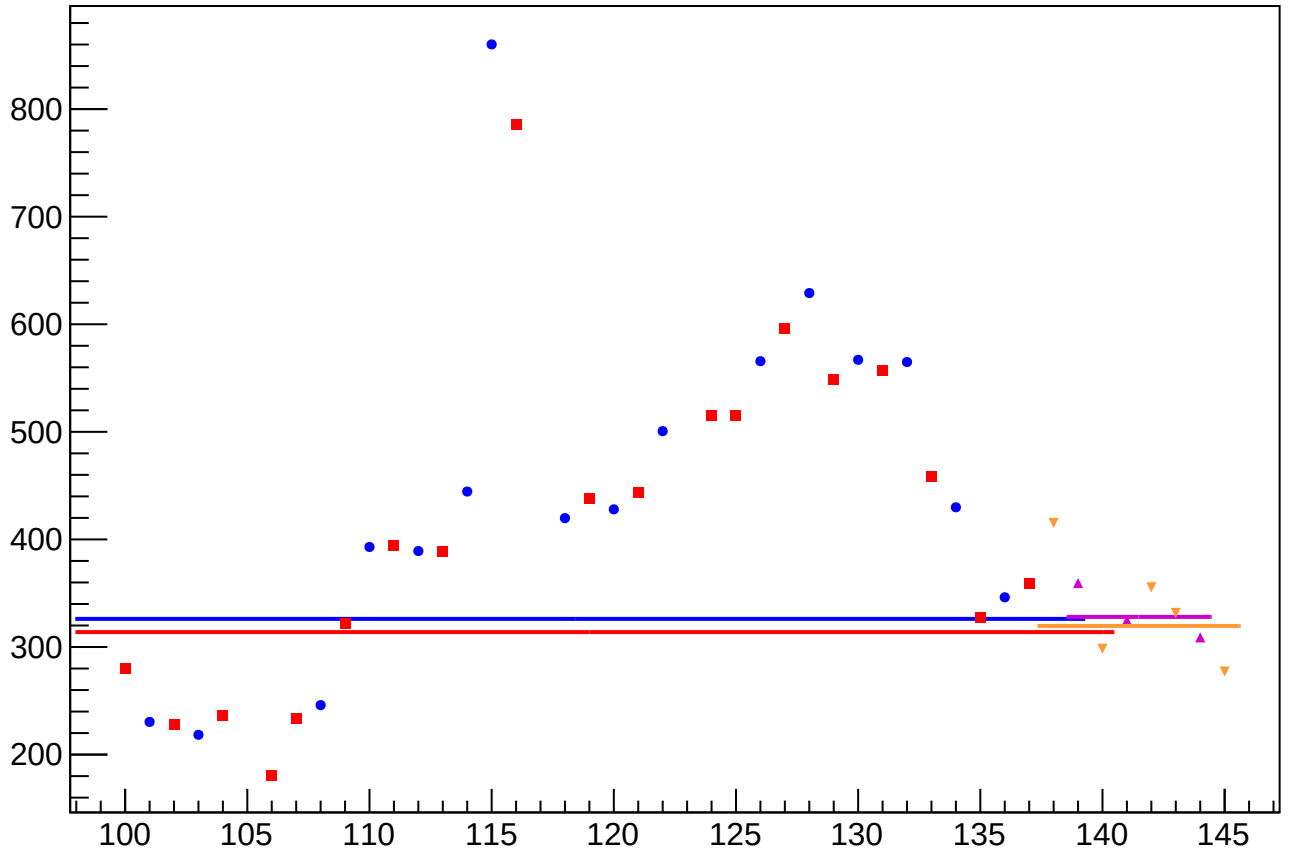
Left: -26.857+/-129.922 $\chi^2$/NDF: 9.7/7

Right: -143.578+/-89.428 $\chi^2$/NDF: 28.0/34

In: -153.088+/-109.458 $\chi^2$/NDF:16.7/18

Out: -67.119+/-99.593 $\chi^2$/NDF:21.3/23

All: -106.055+/-73.664 $\chi^2$/NDF: 38.3/42




Right In: 326.150+/-0.092 $\chi^2$/NDF: 1733934.7/15

Left Out: 319.594+/-0.119 $\chi^2$/NDF:139639.9/4

Right Out: 313.861+/-0.087 $\chi^2$/NDF: 1805779.4/18

Left In: 327.997+/-0.144 $\chi^2$/NDF:19586.9/2

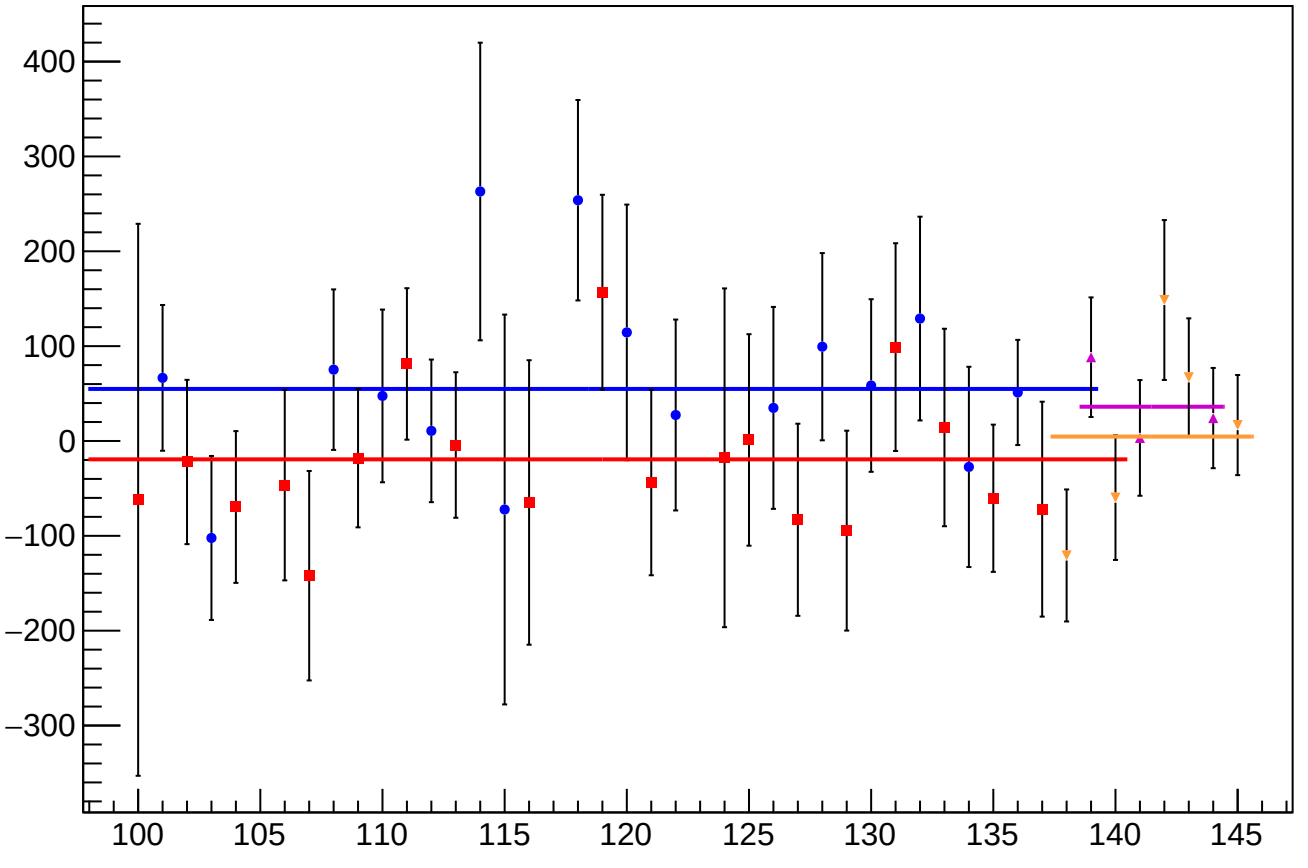
Left: 322.998+/-0.092 $\chi^2$/NDF: 161243.4/7

Right: 319.706+/-0.063 $\chi^2$/NDF: 3549134.1/34

In: 326.681+/-0.077 $\chi^2$/NDF:1753638.2/18

Out: 315.865+/-0.070 $\chi^2$/NDF:1946926.1/23

All: 320.764+/-0.052 $\chi^2$/NDF: 3711248.8/42




Right In: 54.877+/-23.179 $\chi^2$/NDF: 11.0/15

Left Out: 4.642+/-28.909 $\chi^2$/NDF:8.2/4

Right Out: -19.352+/-22.588 $\chi^2$/NDF: 9.2/18

Left In: 36.125+/-33.741 $\chi^2$/NDF:1.0/2

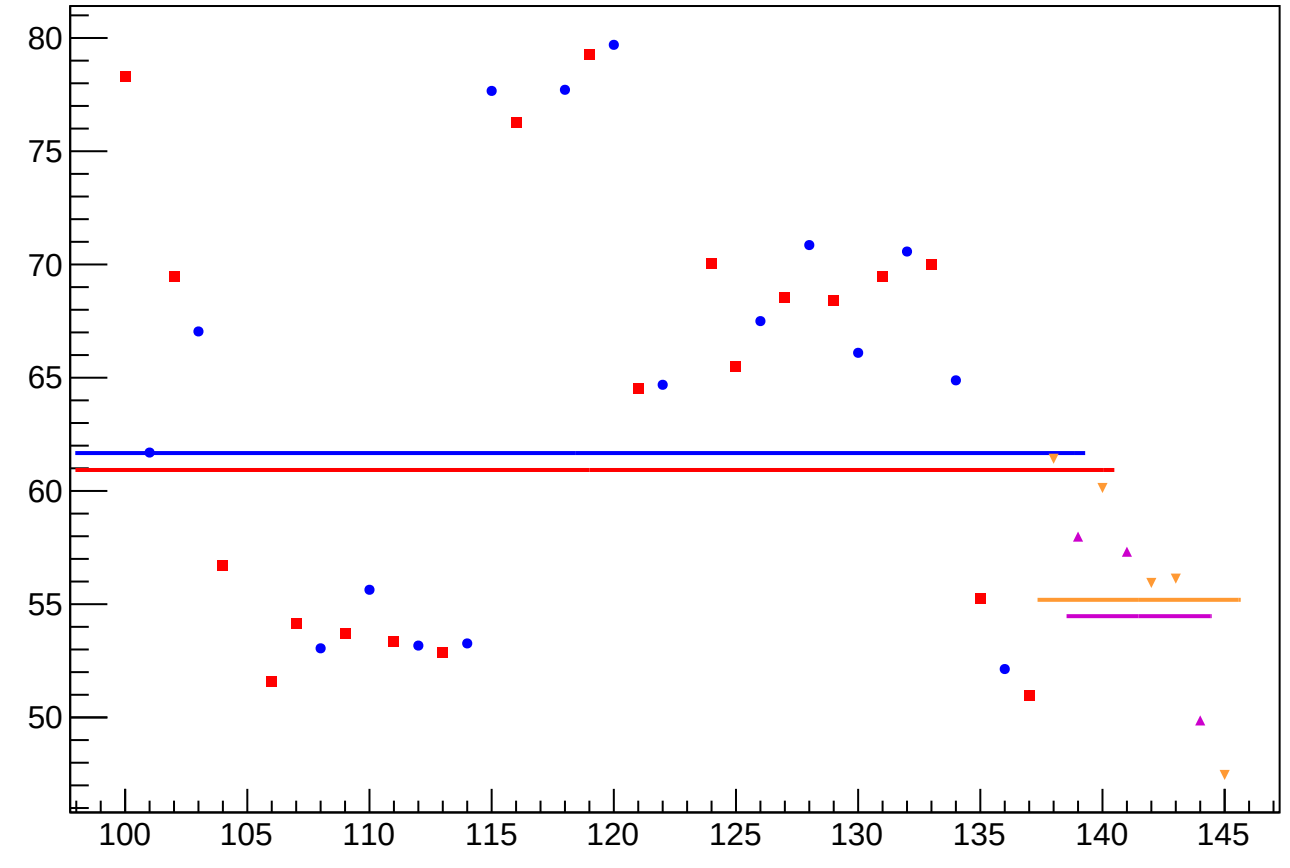
Left: 17.970+/-21.953 $\chi^2$/NDF: 9.7/7

Right: 16.804+/-16.177 $\chi^2$/NDF: 25.4/34

In: 48.865+/-19.105 $\chi^2$/NDF:12.3/18

Out: -10.257+/-17.799 $\chi^2$/NDF:17.8/23

All: 17.214+/-13.023 $\chi^2$/NDF: 35.2/42




Right In: 61.673+/-0.016 $\chi^2$/NDF: 267108.3/15

Left Out: 55.193+/-0.020 $\chi^2$/NDF:70864.7/4

Right Out: 60.926+/-0.016 $\chi^2$/NDF: 287579.6/18

Left In: 54.471+/-0.024 $\chi^2$/NDF:25738.7/2

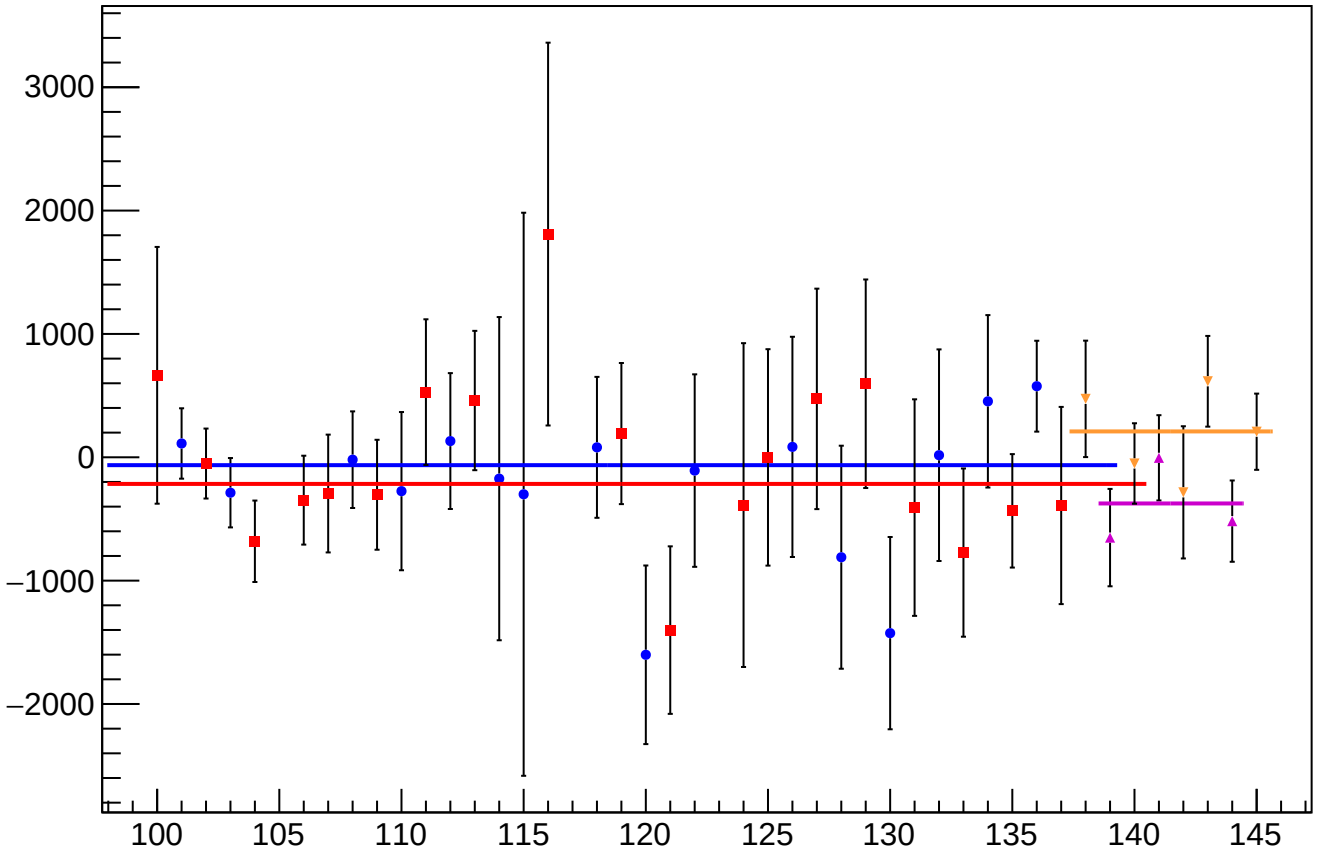
Left: 54.888+/-0.016 $\chi^2$/NDF: 97131.5/7

Right: 61.290+/-0.011 $\chi^2$/NDF: 555754.0/34

In: 59.364+/-0.014 $\chi^2$/NDF:354749.6/18

Out: 58.753+/-0.013 $\chi^2$/NDF:407276.2/23

All: 59.037+/-0.009 $\chi^2$/NDF: 763121.9/42




Right In: -63.820+/-129.675 $\chi^2$/NDF: 13.2/15

Left Out: 209.704+/-168.441 $\chi^2$/NDF:3.0/4

Right Out: -215.911+/-123.491 $\chi^2$/NDF: 14.1/18

Left In: -374.305+/-204.136 $\chi^2$/NDF:1.8/2

Left: -26.857+/-129.922 $\chi^2$/NDF: 9.7/7

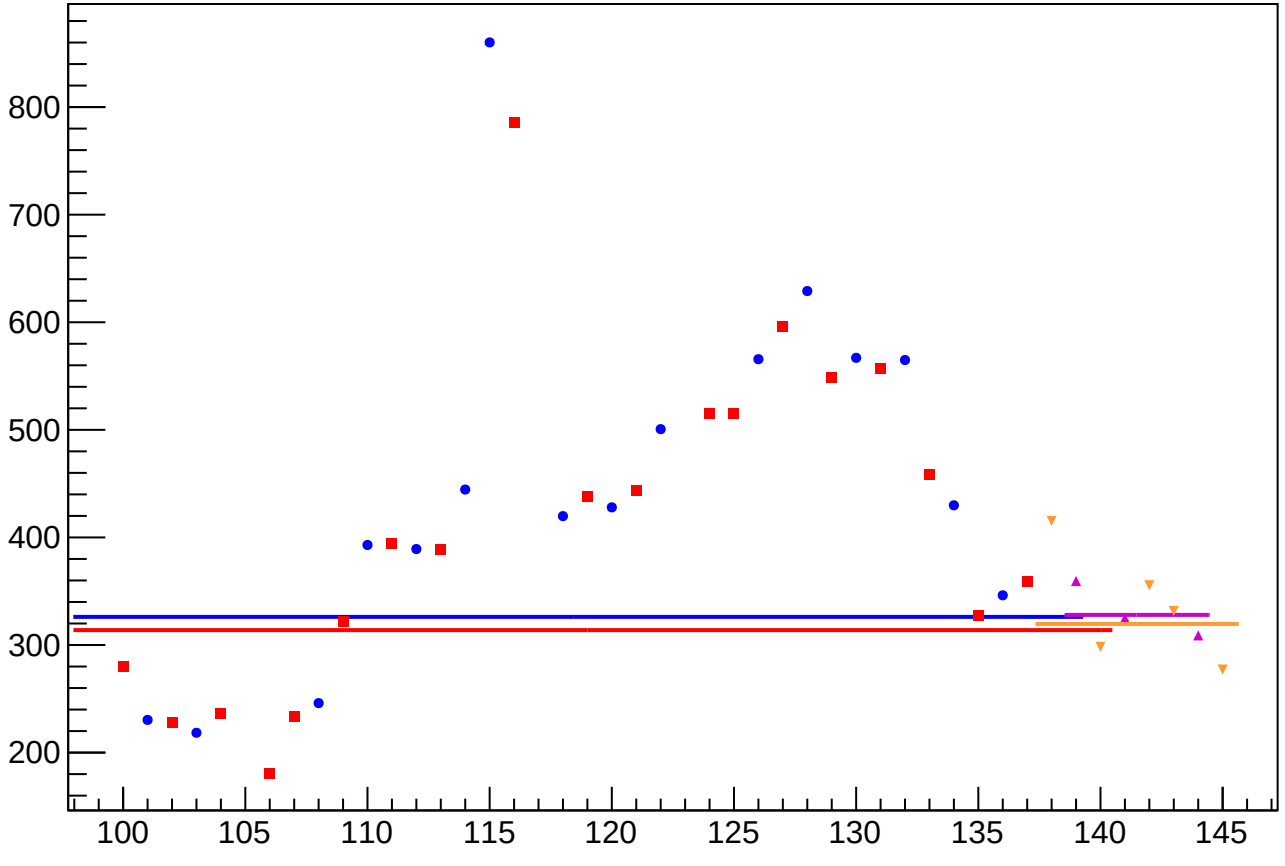
Right: -143.578+/-89.428 $\chi^2$/NDF: 28.0/34

In: -153.088+/-109.458 $\chi^2$/NDF:16.7/18

Out: -67.119+/-99.593 $\chi^2$/NDF:21.3/23

All: -106.055+/-73.664 $\chi^2$/NDF: 38.3/42

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: 319.594+/-0.119 $\chi^2$/NDF:139639.9/4

Right Out: 313.861+/-0.087 $\chi^2$/NDF: 1805779.4/18

Left In: 327.997+/-0.144 $\chi^2$/NDF:19586.9/2

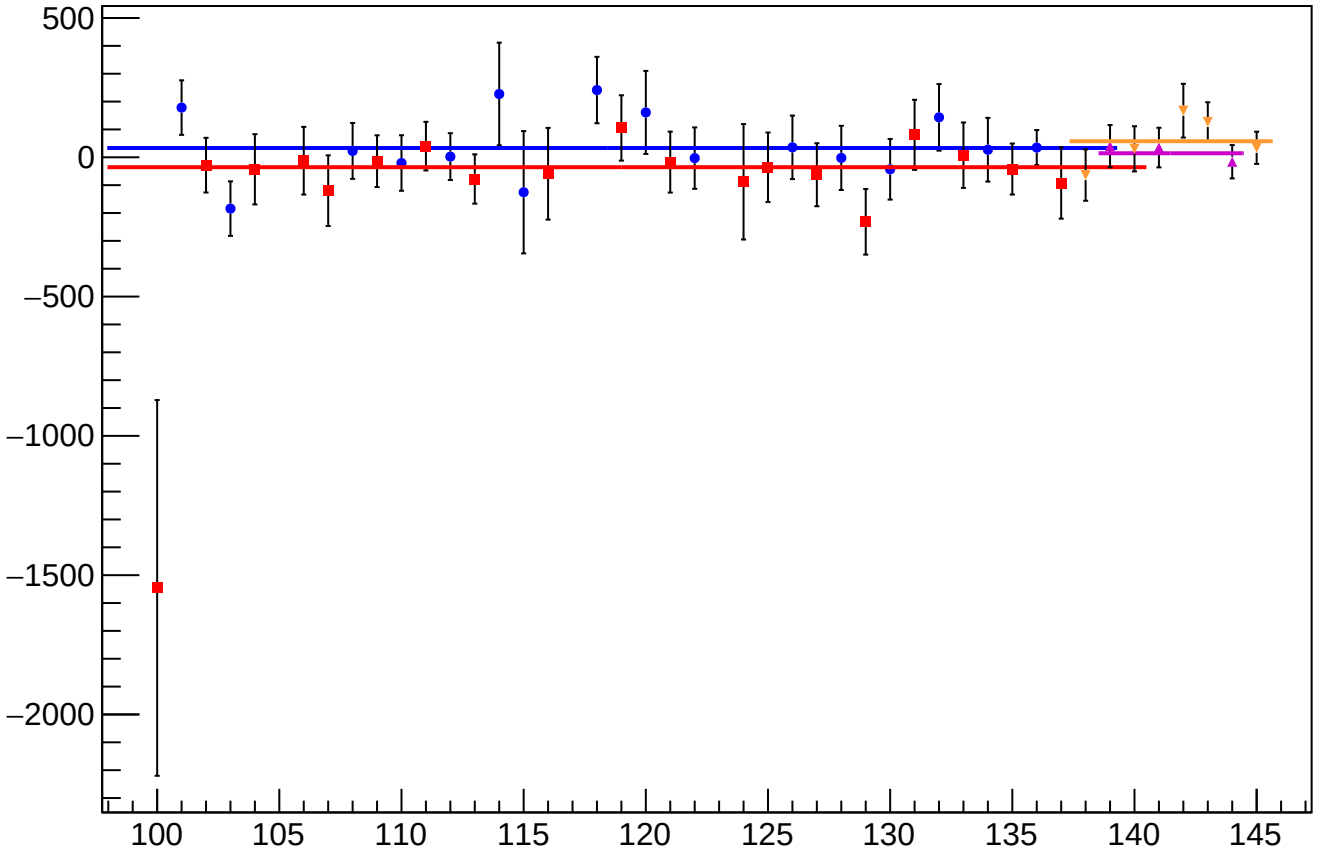
Left: 322.998+/-0.092 $\chi^2$/NDF: 161243.4/7

Right: 319.706+/-0.063 $\chi^2$/NDF: 3549134.1/34

In: 326.681+/-0.077 $\chi^2$/NDF:1753638.2/18

Out: 315.865+/-0.070 $\chi^2$/NDF:1946926.1/23

All: 320.764+/-0.052 $\chi^2$/NDF: 3711248.8/42




Right In: 33.399+/-26.415 $\chi^2$/NDF: 14.5/15

Left Out: 57.723+/-33.814 $\chi^2$/NDF:4.3/4

Right Out: -35.576+/-26.536 $\chi^2$/NDF: 12.1/18

Left In: 14.505+/-39.205 $\chi^2$/NDF:0.5/2

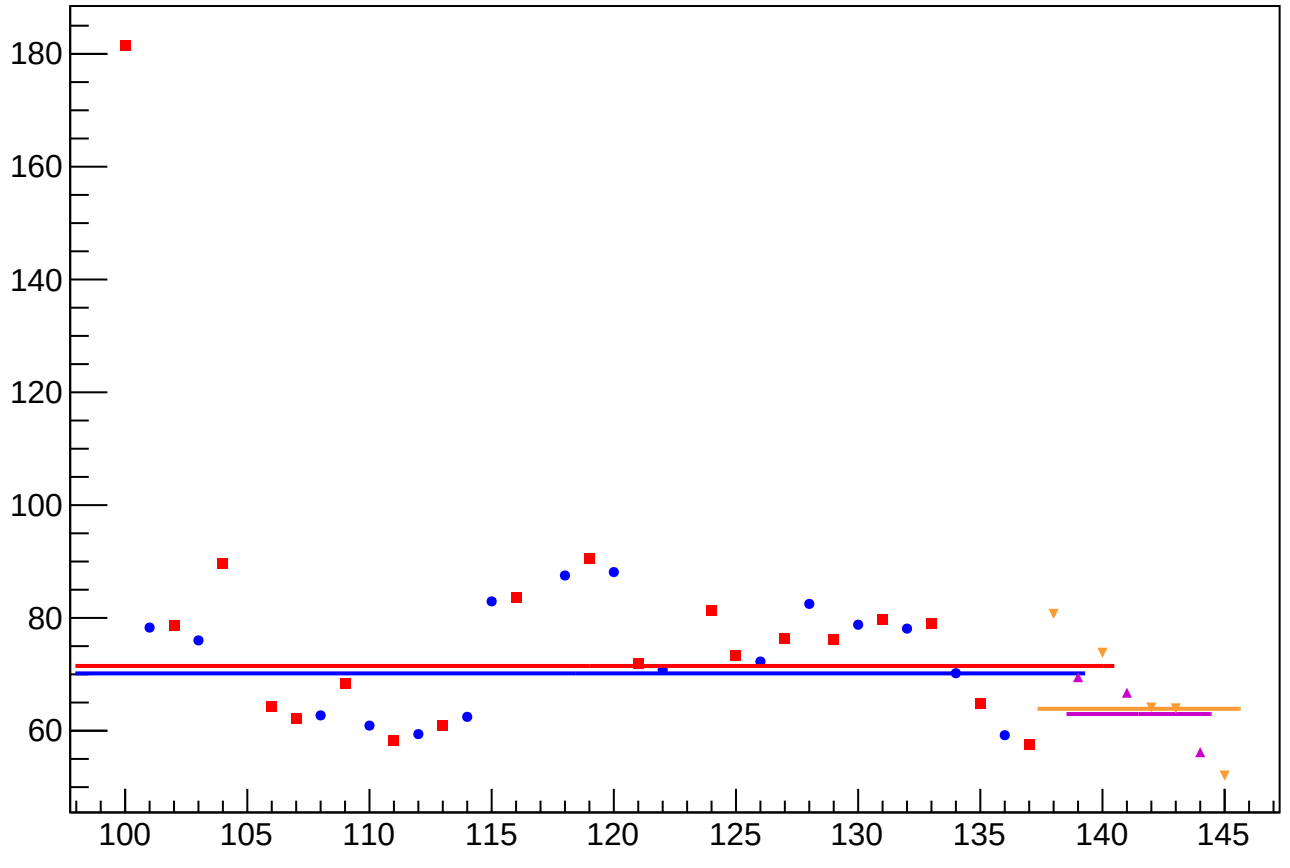
Left: 39.287+/-25.606 $\chi^2$/NDF: 5.4/7

Right: -0.931+/-18.721 $\chi^2$/NDF: 30.0/34

In: 27.500+/-21.906 $\chi^2$/NDF:15.2/18

Out: -0.017+/-20.875 $\chi^2$/NDF:21.1/23

All: 13.078+/-15.112 $\chi^2$/NDF: 37.1/42




Right In: 70.167+/-0.019 $\chi^2$/NDF: 269249.9/15

Left Out: 63.892+/-0.024 $\chi^2$/NDF:180272.7/4

Right Out: 71.483+/-0.019 $\chi^2$/NDF: 325715.0/18

Left In: 62.961+/-0.028 $\chi^2$/NDF:46038.2/2

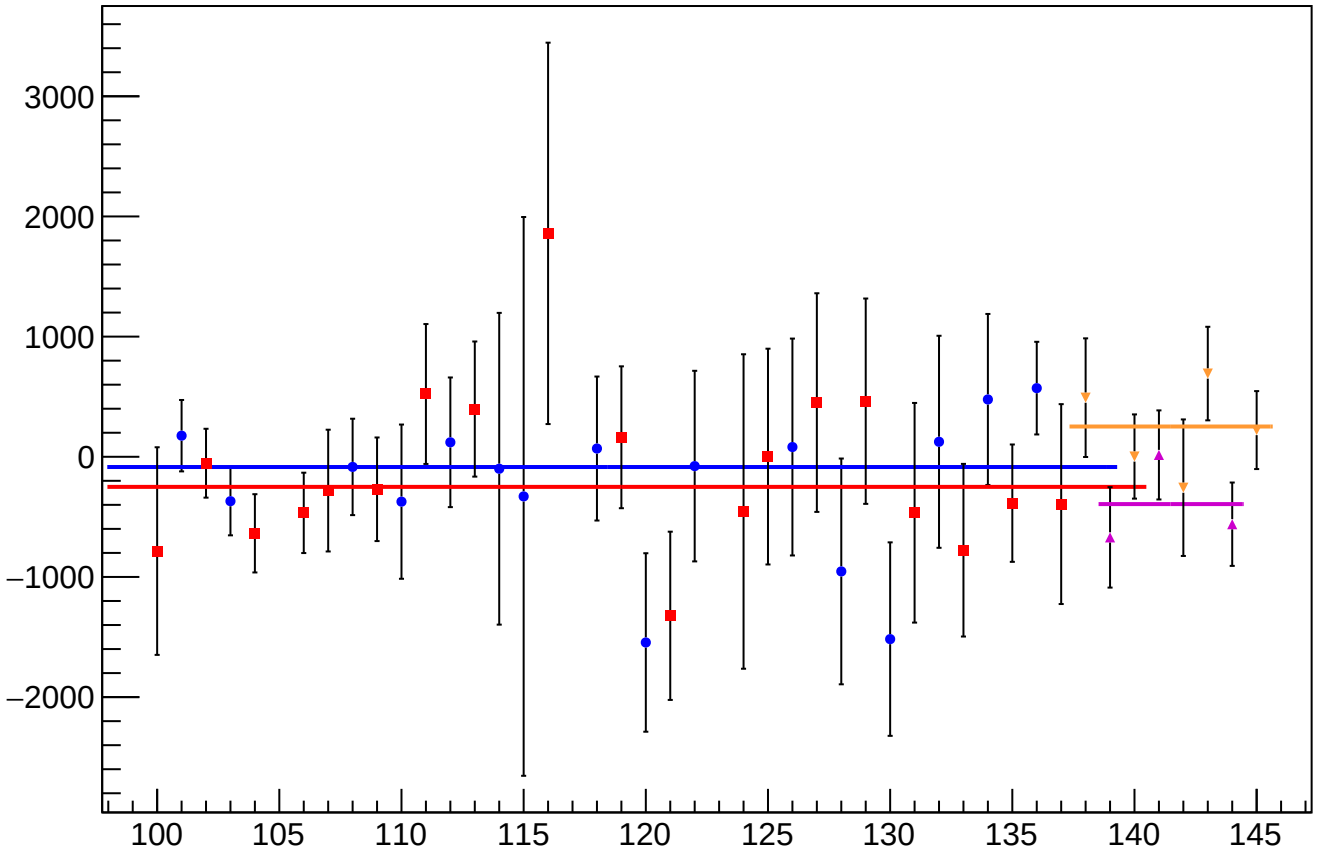
Left: 63.495+/-0.018 $\chi^2$/NDF: 226957.3/7

Right: 70.822+/-0.013 $\chi^2$/NDF: 597434.8/34

In: 67.917+/-0.015 $\chi^2$/NDF:361764.1/18

Out: 68.590+/-0.015 $\chi^2$/NDF:568371.1/23

All: 68.270+/-0.011 $\chi^2$/NDF: 931122.9/42




Right In: -85.184+/-132.877 $\chi^2$/NDF: 13.7/15

Left Out: 251.887+/-178.321 $\chi^2$/NDF:2.8/4

Right Out: -250.440+/-123.302 $\chi^2$/NDF: 12.5/18

Left In: -393.673+/-216.591 $\chi^2$/NDF:1.9/2

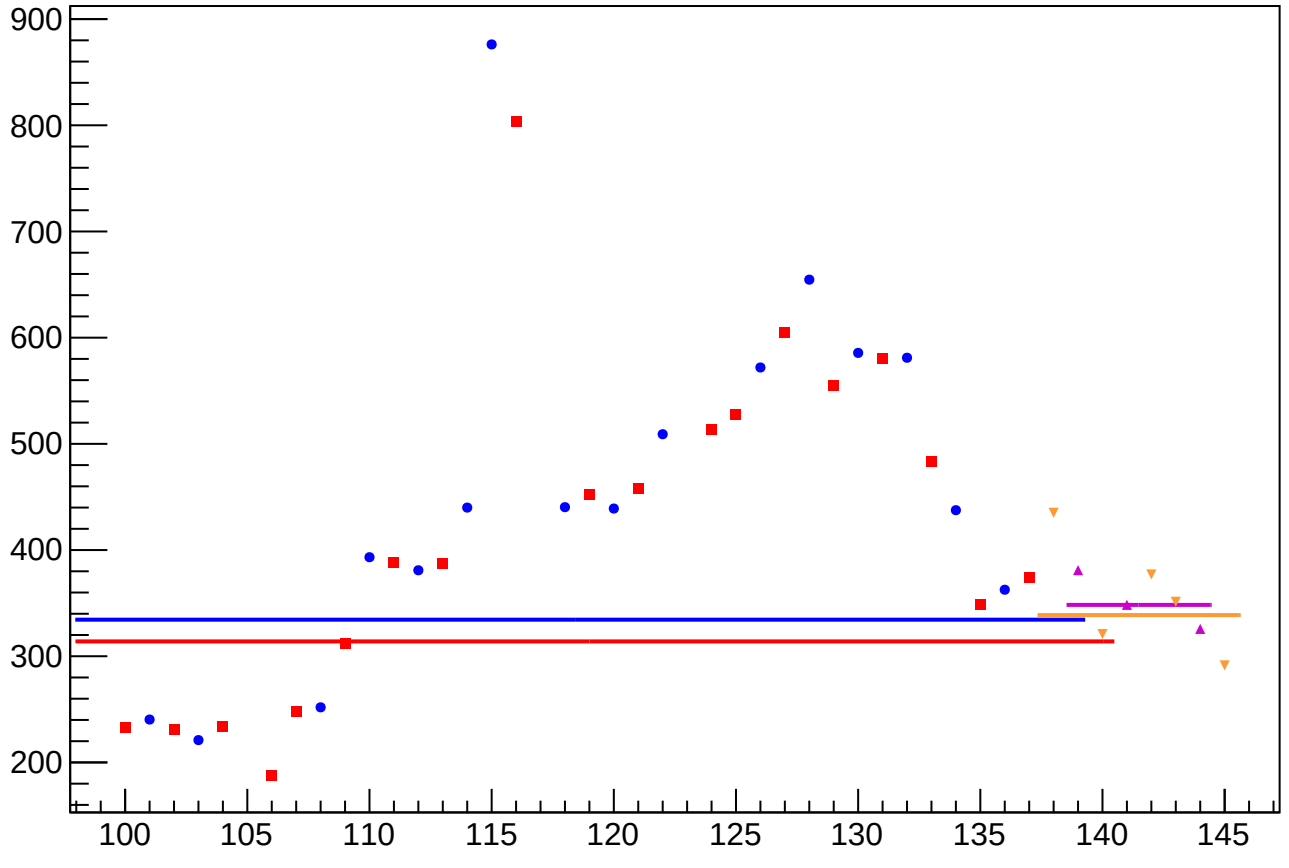
Left: -8.915+/-137.666 $\chi^2$/NDF: 10.0/7

Right: -173.980+/-90.383 $\chi^2$/NDF: 27.0/34

In: -169.541+/-113.261 $\chi^2$/NDF:17.1/18

Out: -87.956+/-101.418 $\chi^2$/NDF:20.7/23

All: -124.261+/-75.555 $\chi^2$/NDF: 38.0/42




Right In: 334.431+/-0.094 $\chi^2$/NDF: 1730610.2/15

Left Out: 338.770+/-0.126 $\chi^2$/NDF:135188.0/4

Right Out: 313.971+/-0.087 $\chi^2$/NDF: 1904605.9/18

Left In: 348.356+/-0.153 $\chi^2$/NDF:20758.1/2

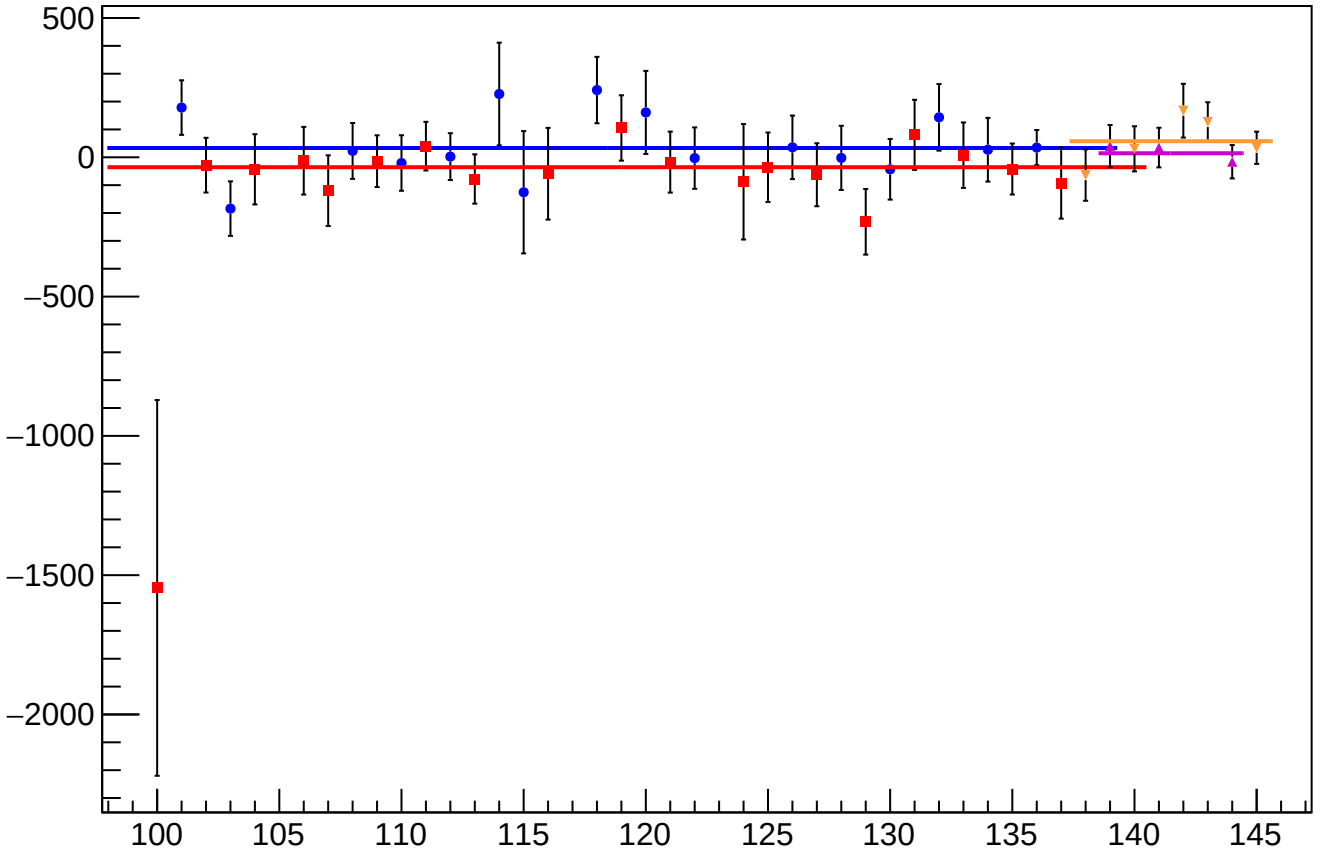
Left: 342.643+/-0.097 $\chi^2$/NDF: 158280.9/7

Right: 323.437+/-0.064 $\chi^2$/NDF: 3660694.2/34

In: 338.239+/-0.080 $\chi^2$/NDF:1757374.6/18

Out: 321.993+/-0.072 $\chi^2$/NDF:2065963.0/23

All: 329.222+/-0.053 $\chi^2$/NDF: 3846175.3/42




Right In: 33.397+/-26.415 $\chi^2$/NDF: 14.5/15

Left Out: 57.722+/-33.814 $\chi^2$/NDF:4.3/4

Right Out: -35.577+/-26.536 $\chi^2$/NDF: 12.1/18

Left In: 14.506+/-39.205 $\chi^2$/NDF:0.5/2

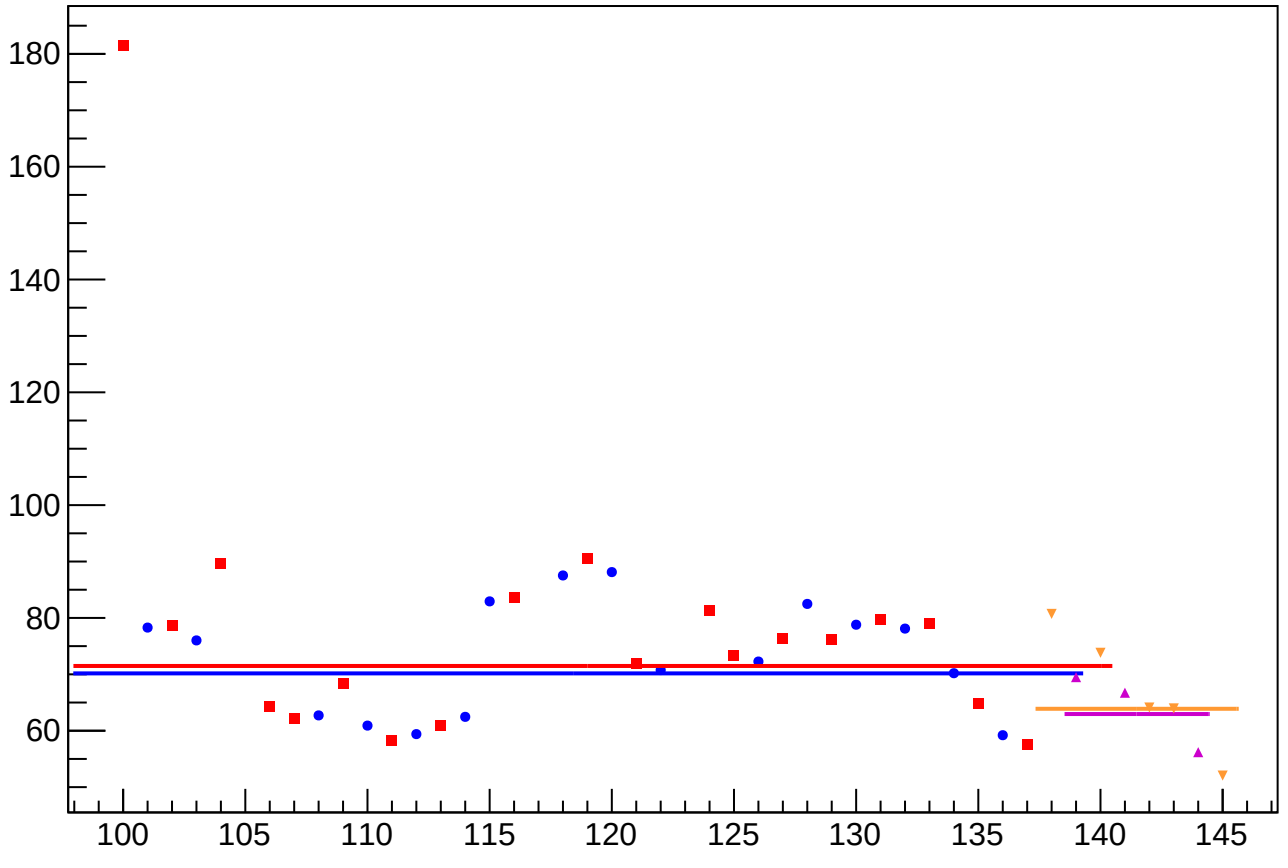
Left: 39.287+/-25.606 $\chi^2$/NDF: 5.4/7

Right: -0.932+/-18.721 $\chi^2$/NDF: 30.0/34

In: 27.499+/-21.906 $\chi^2$/NDF:15.2/18

Out: -0.018+/-20.875 $\chi^2$/NDF:21.1/23

All: 13.078+/-15.112 $\chi^2$/NDF: 37.1/42




Right In: 70.167+/-0.019 $\chi^2$/NDF: 269253.0/15

Left Out: 63.892+/-0.024 $\chi^2$/NDF:180273.6/4

Right Out: 71.483+/-0.019 $\chi^2$/NDF: 325721.5/18

Left In: 62.961+/-0.028 $\chi^2$/NDF:46036.1/2

Left: 63.494+/-0.018 $\chi^2$/NDF: 226956.1/7

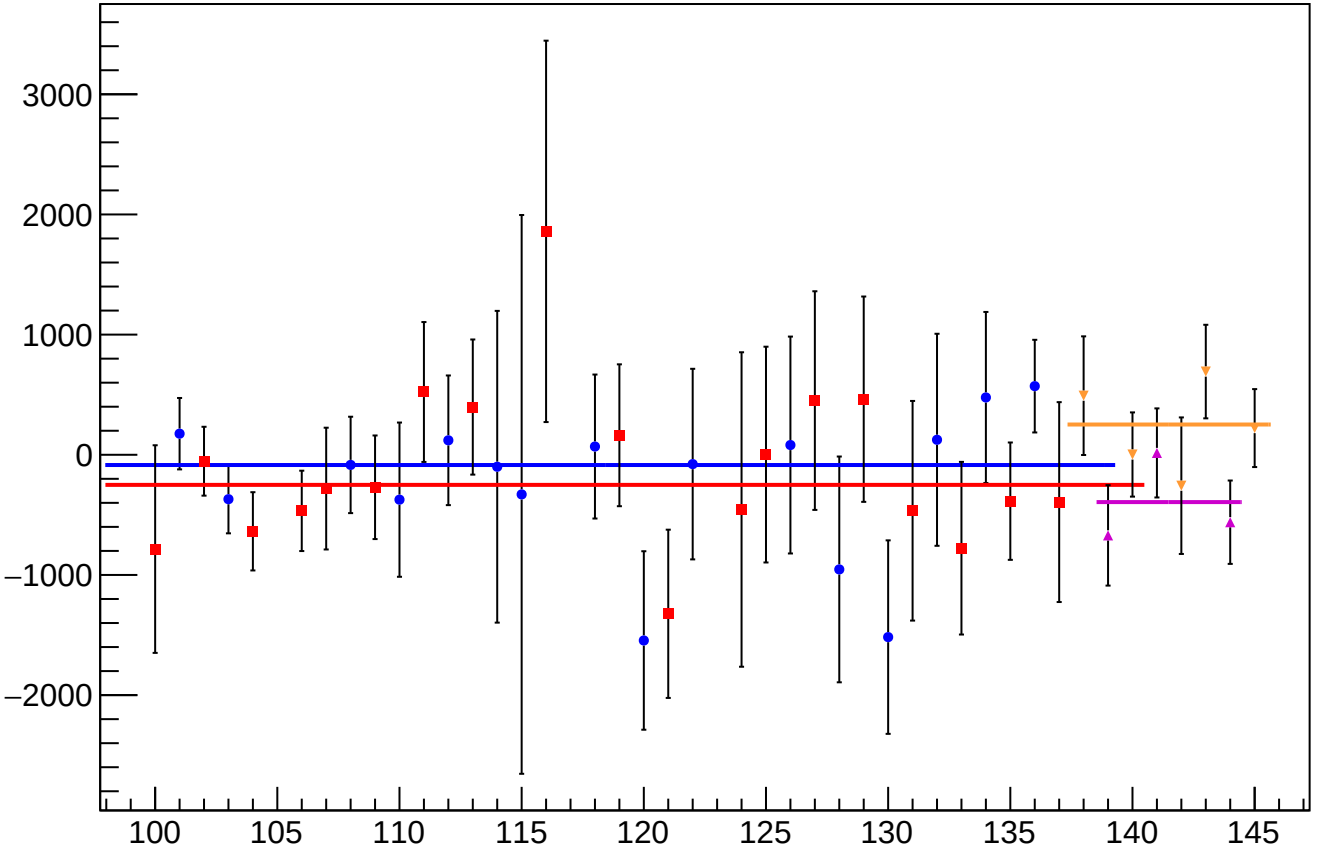
Right: 70.822+/-0.013 $\chi^2$/NDF: 597444.3/34

In: 67.917+/-0.015 $\chi^2$/NDF:361768.7/18

Out: 68.590+/-0.015 $\chi^2$/NDF:568382.5/23

All: 68.270+/-0.011 $\chi^2$/NDF: 931138.8/42

asym_sam_37_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -85.185+/-132.877 $\chi^2$/NDF: 13.7/15

Left Out: 251.887+/-178.321 $\chi^2$/NDF:2.8/4

Right Out: -250.440+/-123.302 $\chi^2$/NDF: 12.5/18

Left In: -393.672+/-216.591 $\chi^2$/NDF:1.9/2

Left: -8.915+/-137.666 $\chi^2$/NDF: 10.0/7

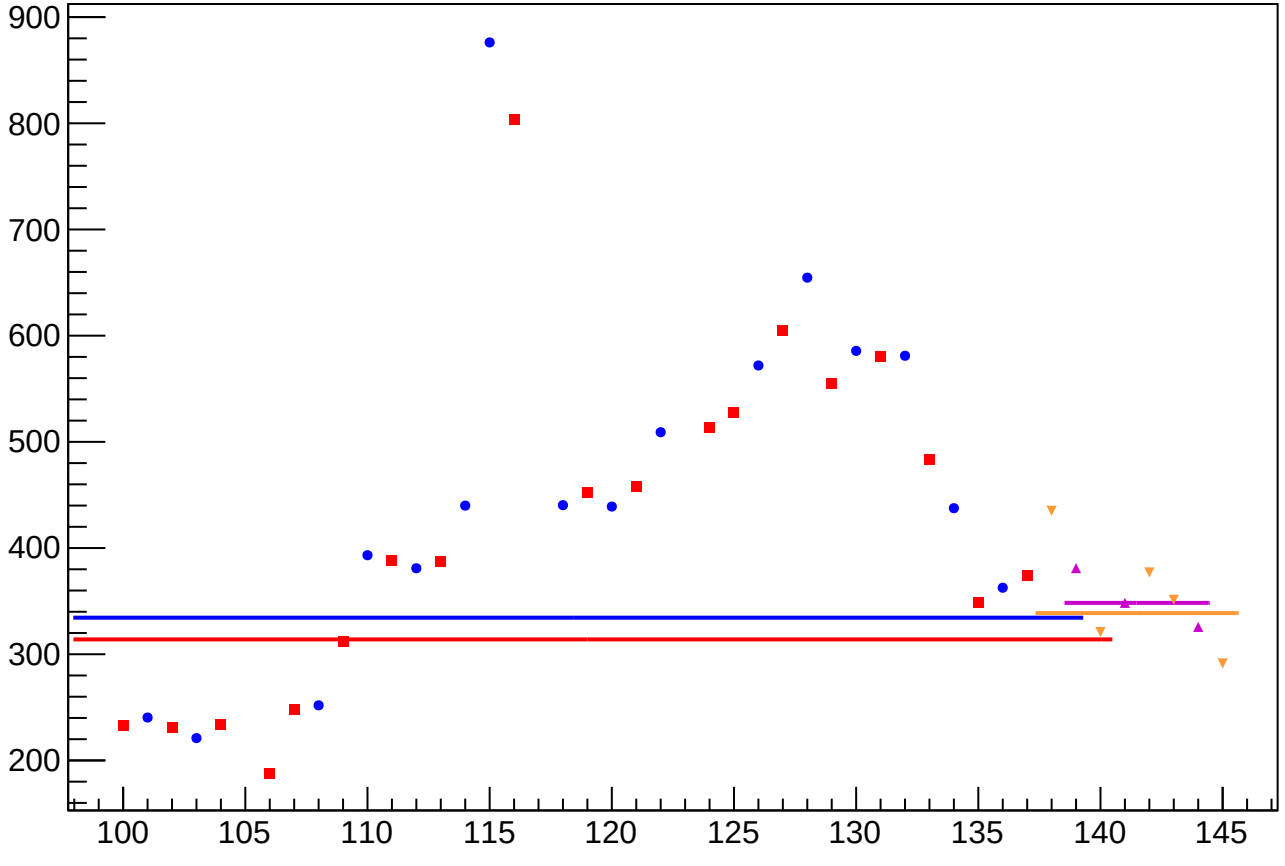
Right: -173.981+/-90.383 $\chi^2$/NDF: 27.0/34

In: -169.542+/-113.261 $\chi^2$/NDF:17.1/18

Out: -87.956+/-101.418 $\chi^2$/NDF:20.7/23

All: -124.262+/-75.555 $\chi^2$/NDF: 38.0/42

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: 338.770+/-0.126 $\chi^2$/NDF:135189.3/4

Right Out: 313.971+/-0.087 $\chi^2$/NDF: 1904604.3/18

Left In: 348.356+/-0.153 $\chi^2$/NDF:20758.0/2

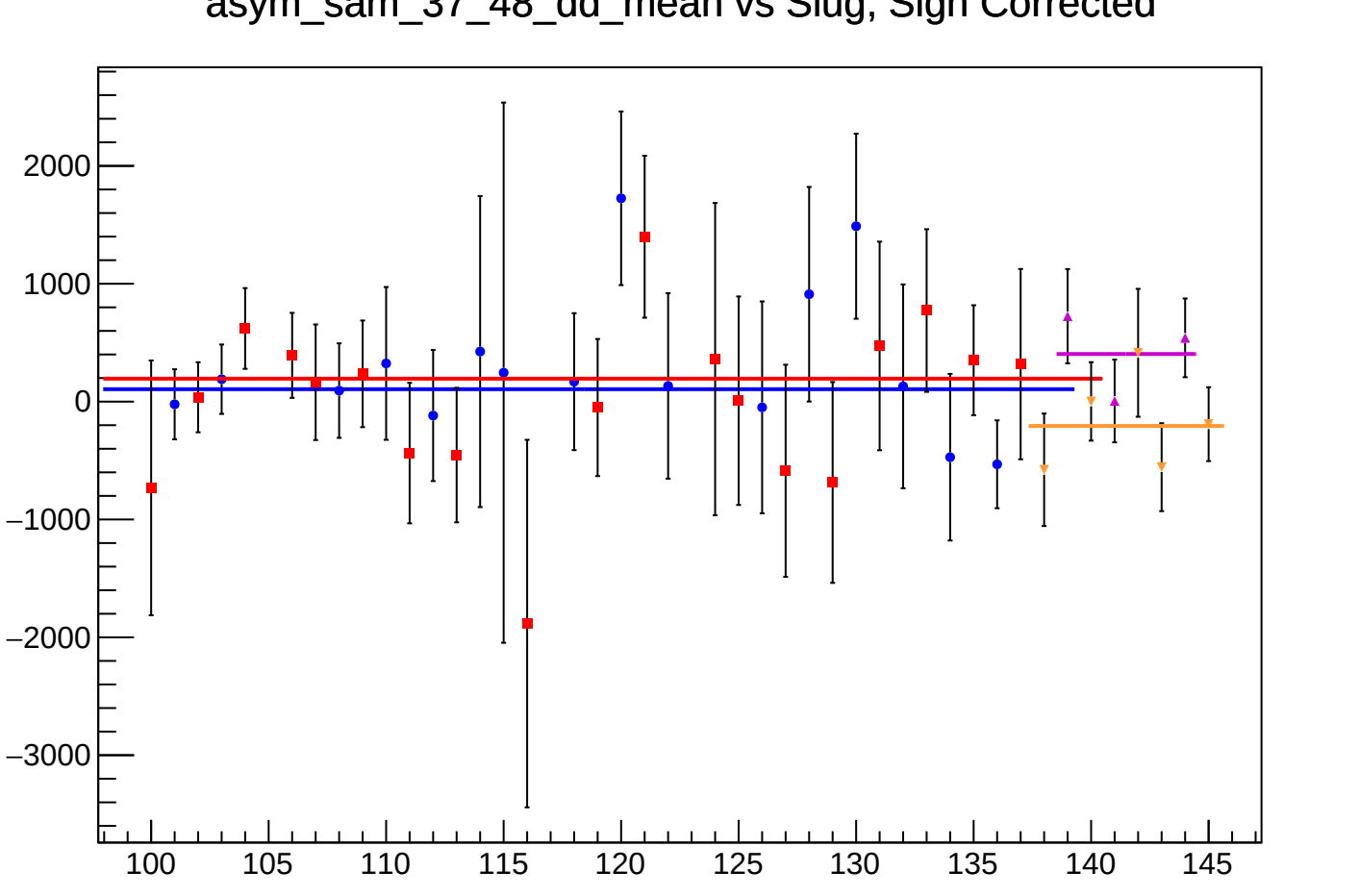
Left: 342.642+/-0.097 $\chi^2$/NDF: 158282.3/7

Right: 323.437+/-0.064 $\chi^2$/NDF: 3660692.3/34

In: 338.239+/-0.080 $\chi^2$/NDF:1757373.2/18

Out: 321.993+/-0.072 $\chi^2$/NDF:2065961.6/23

All: 329.222+/-0.053 $\chi^2$/NDF: 3846173.3/42




Right In: 105.390+/-133.046 $\chi^2$/NDF: 13.0/15

Left Out: -206.668+/-171.053 $\chi^2$/NDF:3.2/4

Right Out: 194.712+/-126.198 $\chi^2$/NDF: 13.1/18

Left In: 404.011+/-207.019 $\chi^2$/NDF:2.1/2

Left: 41.098+/-131.864 $\chi^2$/NDF: 10.5/7

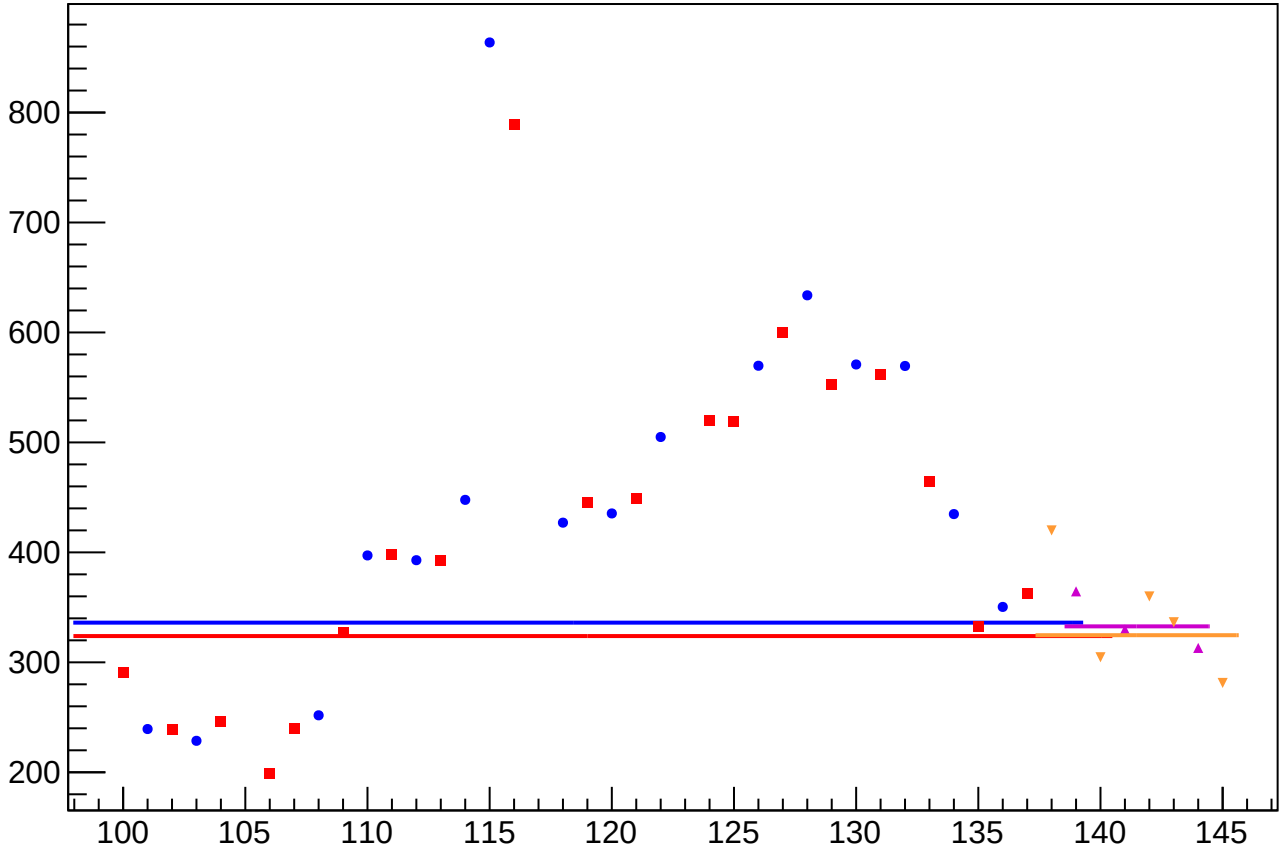
Right: 152.409+/-91.561 $\chi^2$/NDF: 26.3/34

In: 192.677+/-111.925 $\chi^2$/NDF:16.5/18

Out: 53.241+/-101.552 $\chi^2$/NDF:19.9/23

All: 116.200+/-75.208 $\chi^2$/NDF: 37.3/42

# asym_sam_37_48_dd_rms vs Slug, Sign Corrected




Right In: 336.092+/-0.094 $\chi^2$/NDF: 1618997.2/15

Left Out: 324.670+/-0.121 $\chi^2$/NDF:135860.1/4

Right Out: 323.885+/-0.089 $\chi^2$/NDF: 1665420.8/18

Left In: 332.713+/-0.146 $\chi^2$/NDF:19697.6/2

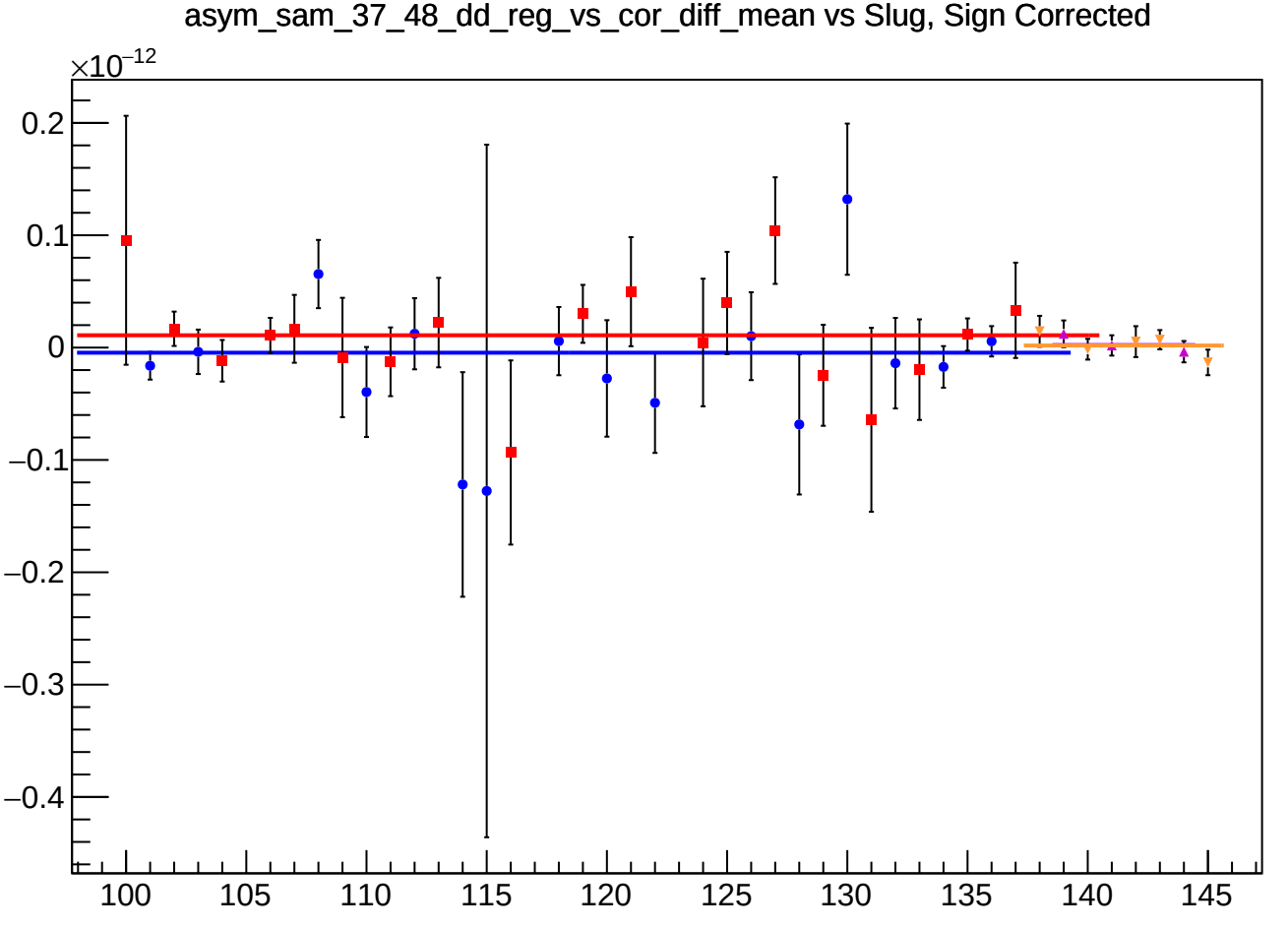
Left: 327.933+/-0.093 $\chi^2$/NDF: 157351.9/7

Right: 329.666+/-0.065 $\chi^2$/NDF: 3293280.0/34

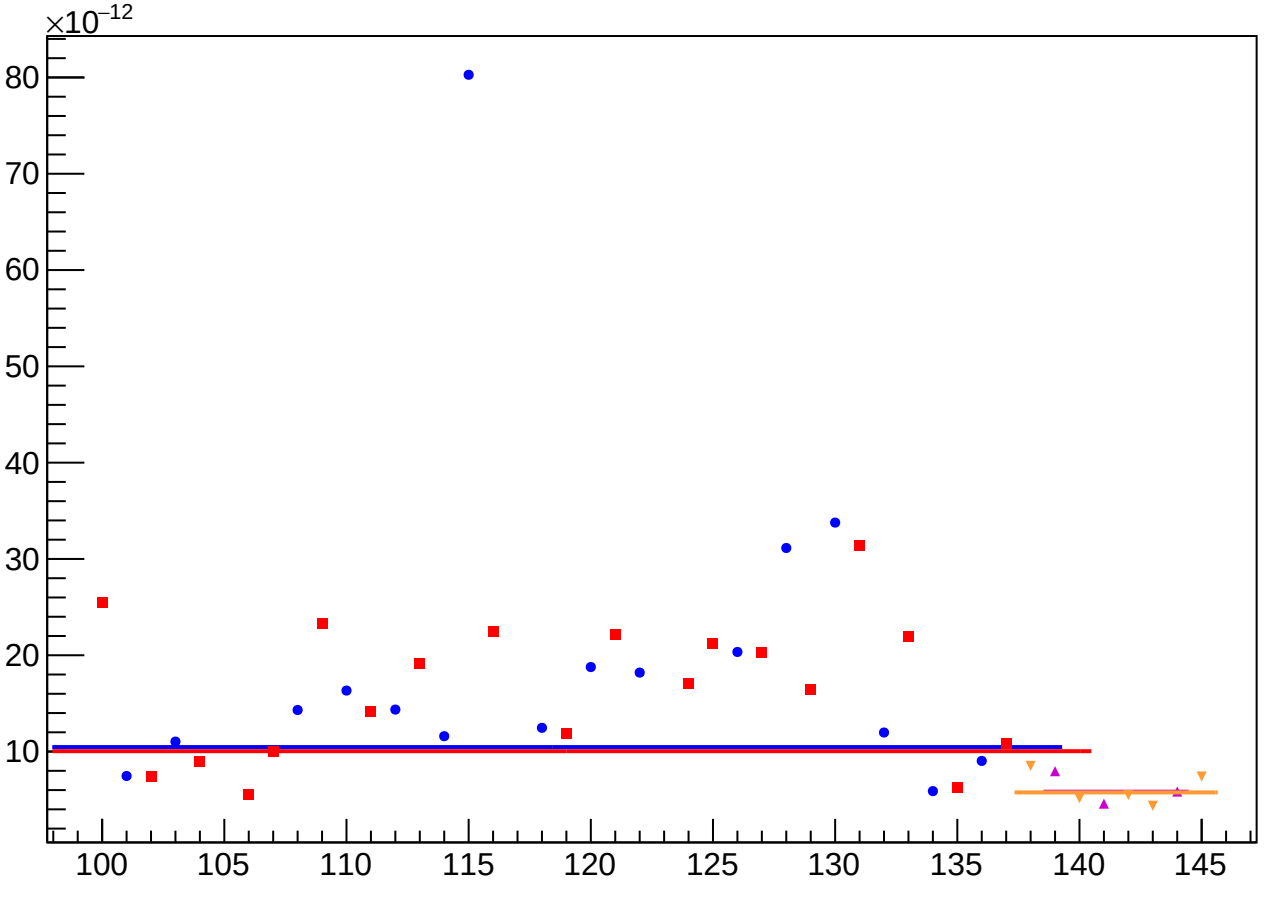
In: 335.104+/-0.079 $\chi^2$/NDF:1639071.8/18

Out: 324.162+/-0.072 $\chi^2$/NDF:1801308.2/23

All: 329.103+/-0.053 $\chi^2$/NDF: 3450865.1/42


asym_sam_37_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 16.5/15
Left Out: 0.000+/-0.000 χ²/NDF:3.1/4
Right Out: 0.000+/-0.000 χ²/NDF: 12.4/18
Left In: 0.000+/-0.000 χ²/NDF:1.1/2
Left: 0.000+/-0.000 χ²/NDF: 4.2/7
Right: 0.000+/-0.000 χ²/NDF: 31.8/34
In: -0.000+/-0.000 χ²/NDF:18.2/18
Out: 0.000+/-0.000 χ²/NDF:16.8/23
All: 0.000+/-0.000 χ²/NDF: 36.1/42

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:183277.2/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1415778.7/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:101652.1/2

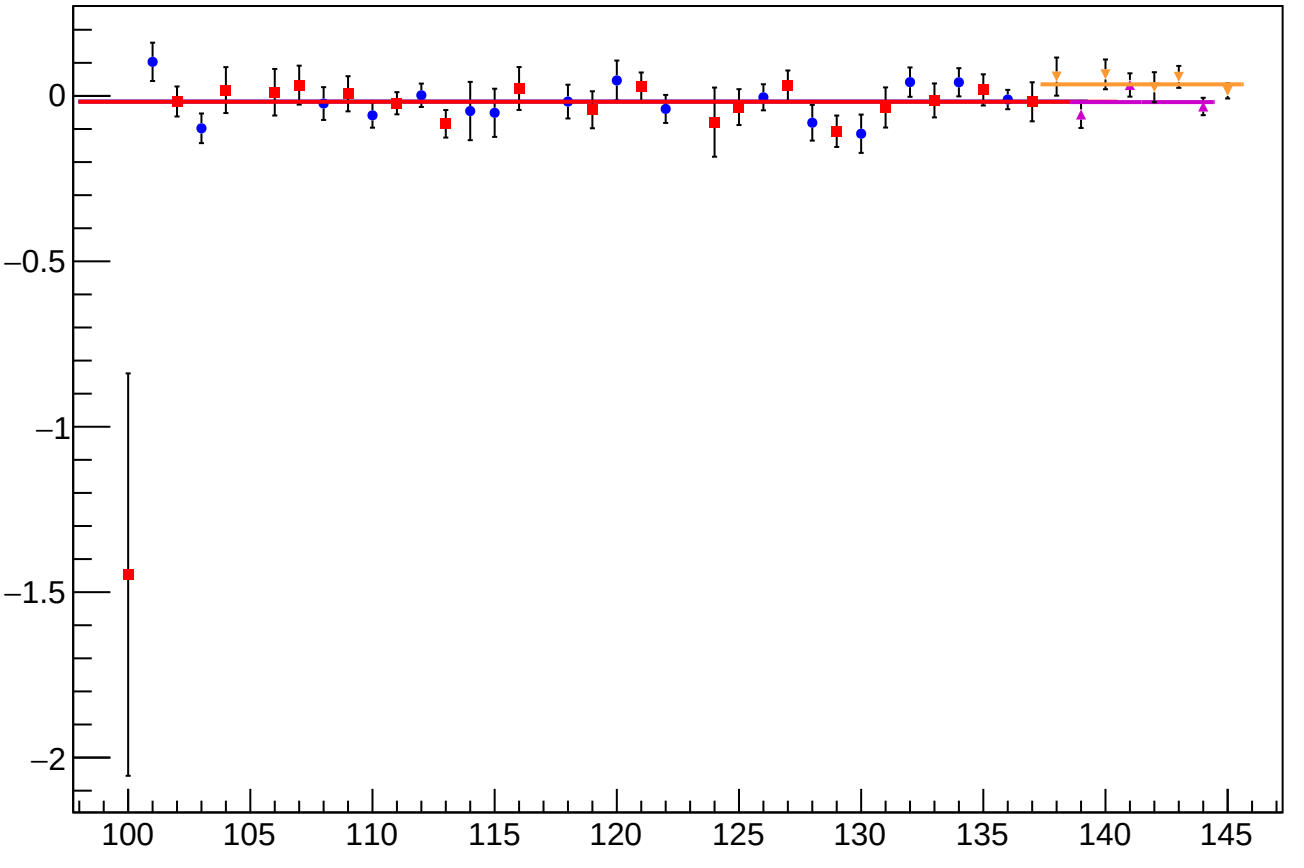
Left: 0.000+/-0.000 $\chi^2$/NDF: 285124.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 2604050.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:1862101.1/18

Out: 0.000+/-0.000 $\chi^2$/NDF:2170330.7/23

All: 0.000+/-0.000 $\chi^2$/NDF: 4053398.2/42




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.035+/-0.016 $\chi^2$/NDF:1.9/4

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.019+/-0.019 $\chi^2$/NDF:3.2/2

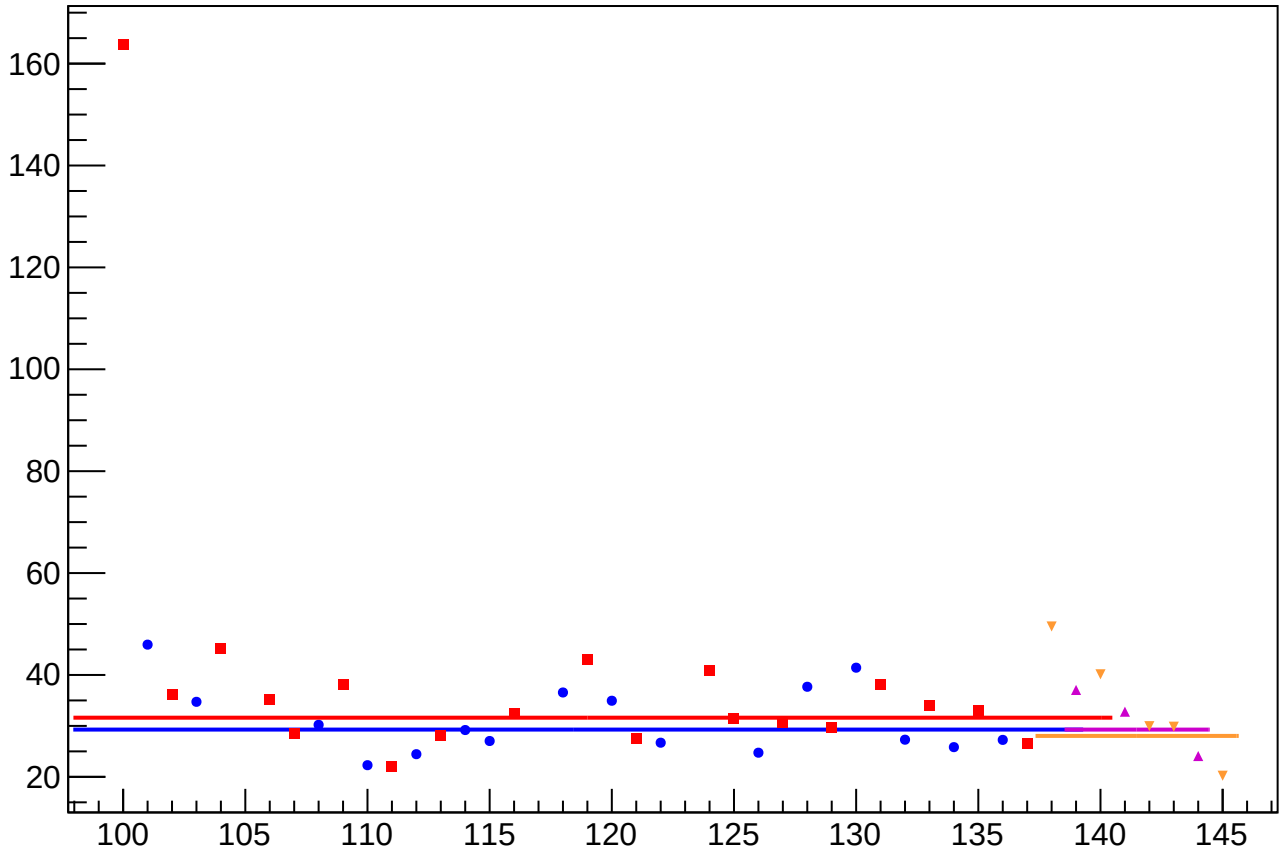
Left: 0.013+/-0.012 $\chi^2$/NDF: 10.0/7

Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.017+/-0.010 $\chi^2$/NDF:22.1/18

Out: 0.002+/-0.010 $\chi^2$/NDF:25.8/23

All: -0.008+/-0.007 $\chi^2$/NDF: 49.9/42




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.9/15

Left Out: 28.036+/-0.011 $\chi^2$/NDF:666493.3/4

Right Out: 31.613+/-0.009 $\chi^2$/NDF: 572190.6/18

Left In: 29.274+/-0.013 $\chi^2$/NDF:170262.8/2

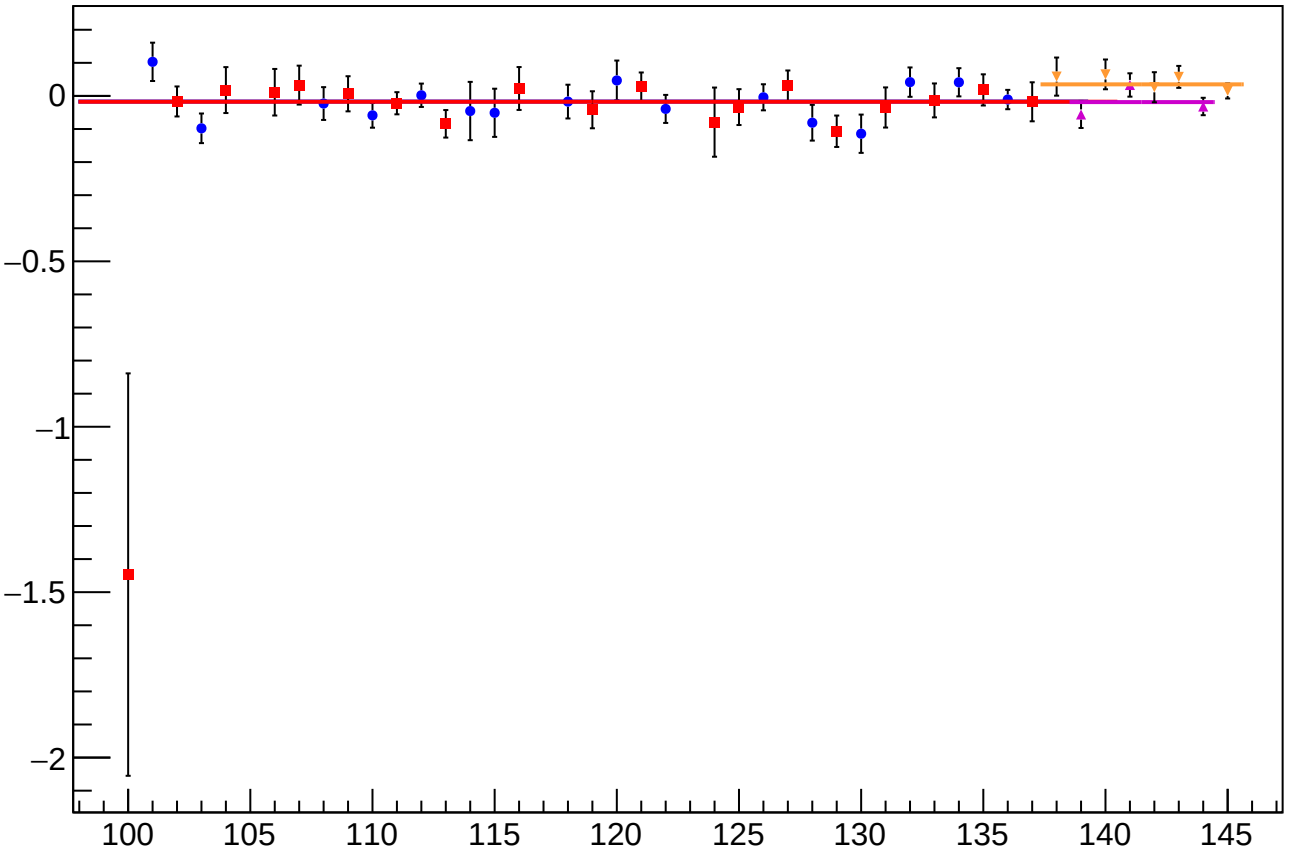
Left: 28.543+/-0.008 $\chi^2$/NDF: 841910.7/7

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.3/34

In: 29.277+/-0.007 $\chi^2$/NDF:730917.8/18

Out: 30.270+/-0.007 $\chi^2$/NDF:1304321.6/23

All: 29.781+/-0.005 $\chi^2$/NDF: 2045857.4/42




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.035+/-0.016 $\chi^2$/NDF:1.9/4

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.019+/-0.019 $\chi^2$/NDF:3.2/2

Left: 0.013+/-0.012 $\chi^2$/NDF: 10.0/7

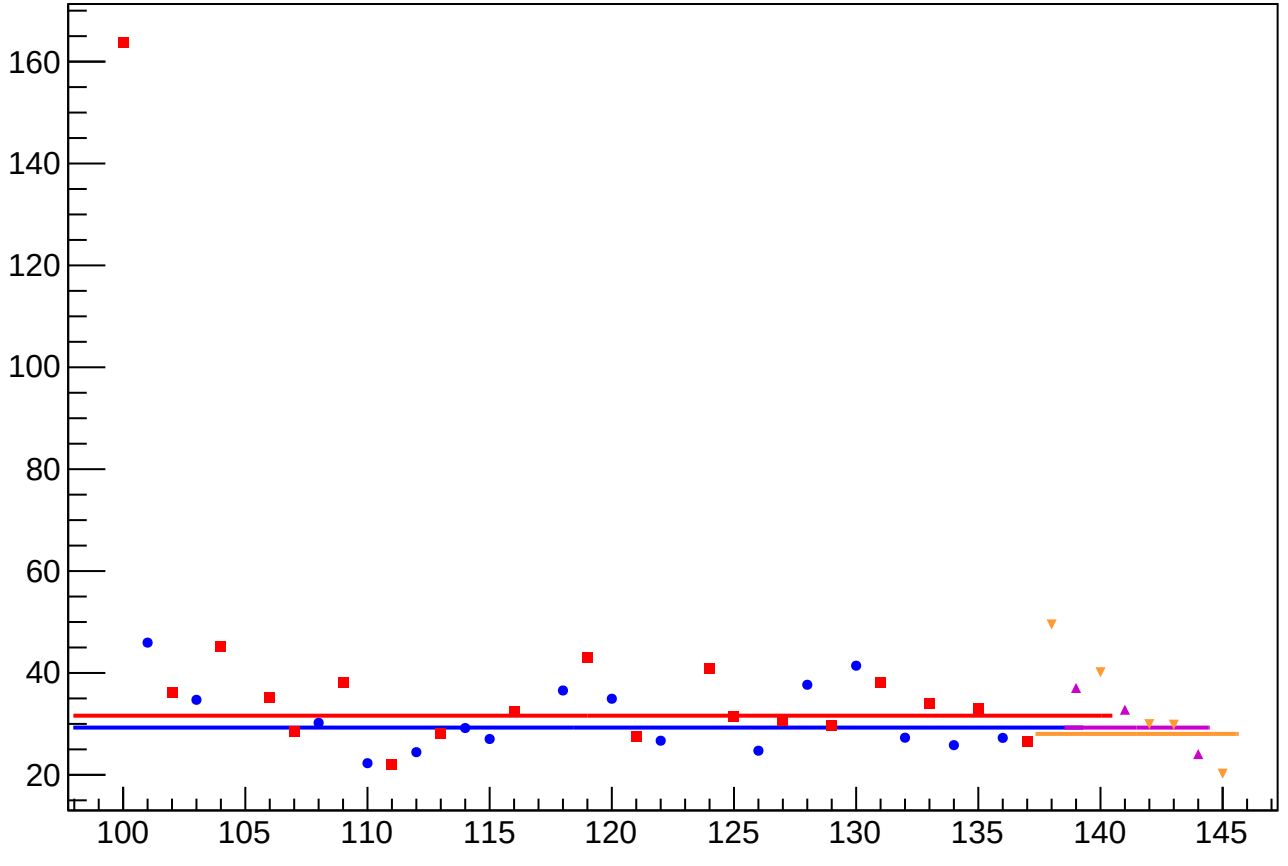
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.017+/-0.010 $\chi^2$/NDF:22.1/18

Out: 0.002+/-0.010 $\chi^2$/NDF:25.8/23

All: -0.008+/-0.007 $\chi^2$/NDF: 49.9/42

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: 28.036+/-0.011 $\chi^2$/NDF:666493.3/4

Right Out: 31.613+/-0.009 $\chi^2$/NDF: 572190.6/18

Left In: 29.274+/-0.013 $\chi^2$/NDF:170262.8/2

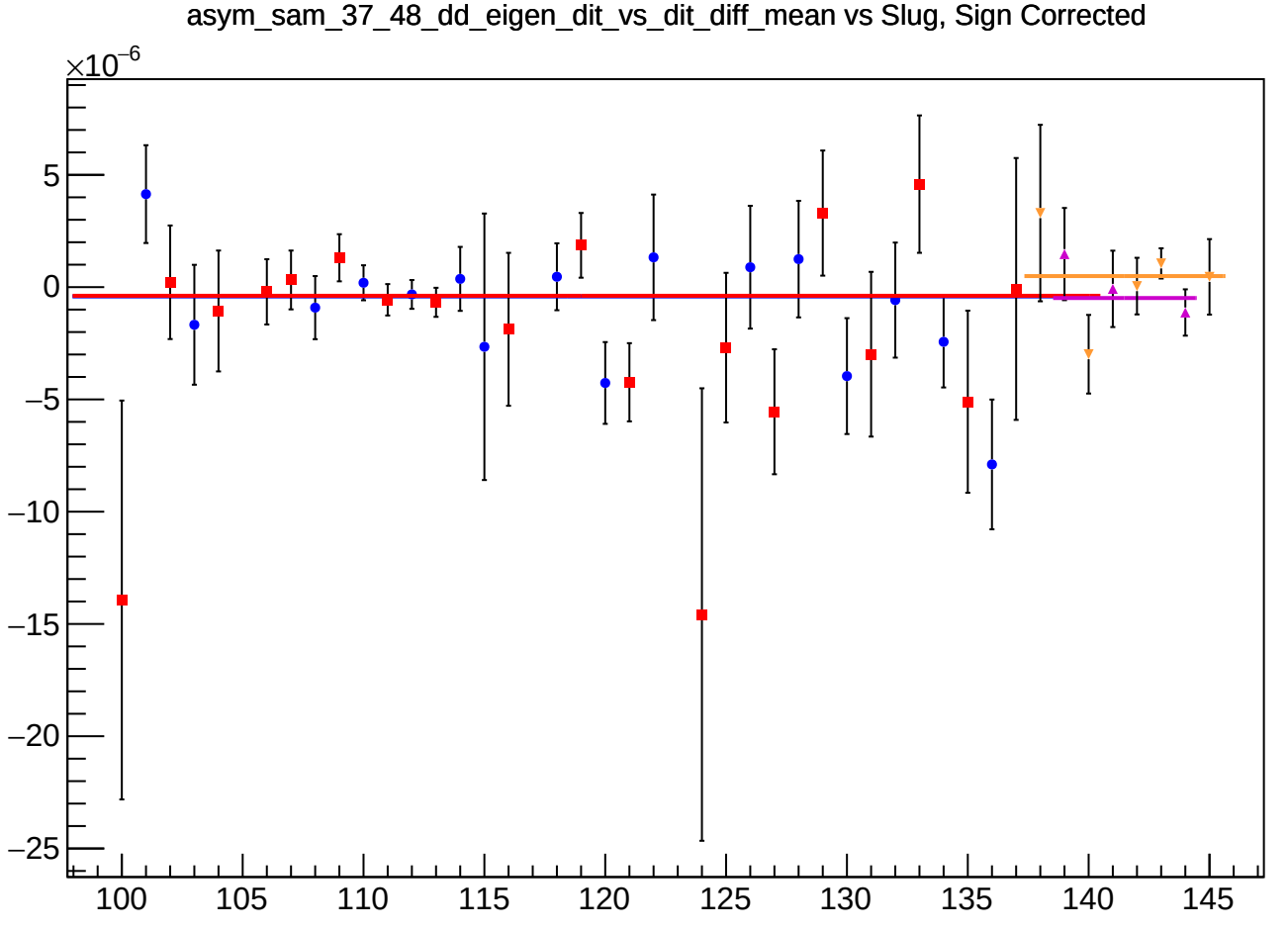
Left: 28.543+/-0.008 $\chi^2$/NDF: 841910.7/7

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.3/34

In: 29.277+/-0.007 $\chi^2$/NDF:730917.8/18

Out: 30.270+/-0.007 $\chi^2$/NDF:1304321.6/23

All: 29.781+/-0.005 $\chi^2$/NDF: 2045857.4/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.2/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5.3/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.4/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 7.7/7

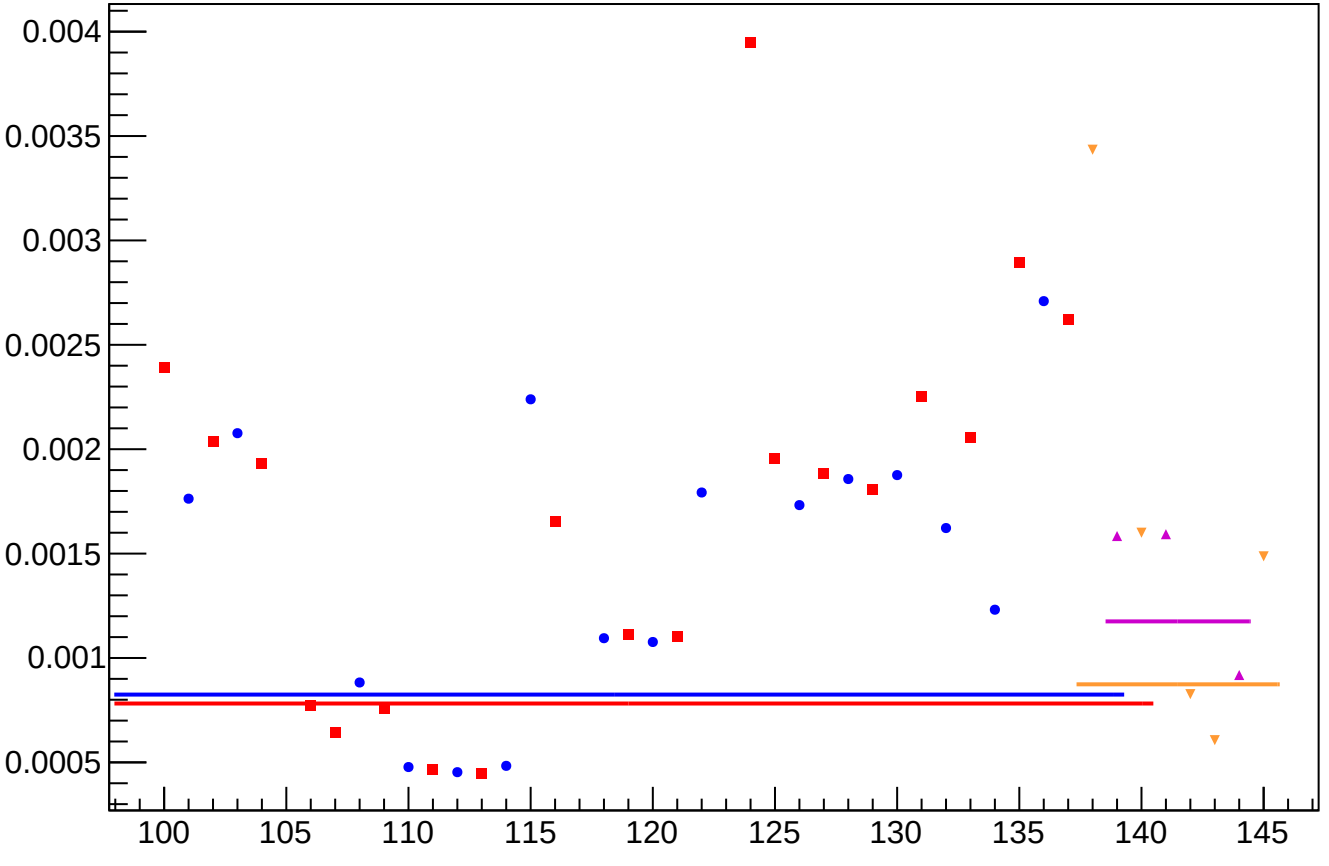
Right: -0.000+/-0.000 $\chi^2$/NDF: 46.5/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:32.5/23

All: -0.000+/-0.000 $\chi^2$/NDF: 55.6/42

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 4448725.9/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:1777652.5/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4638419.3/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:323886.4/2

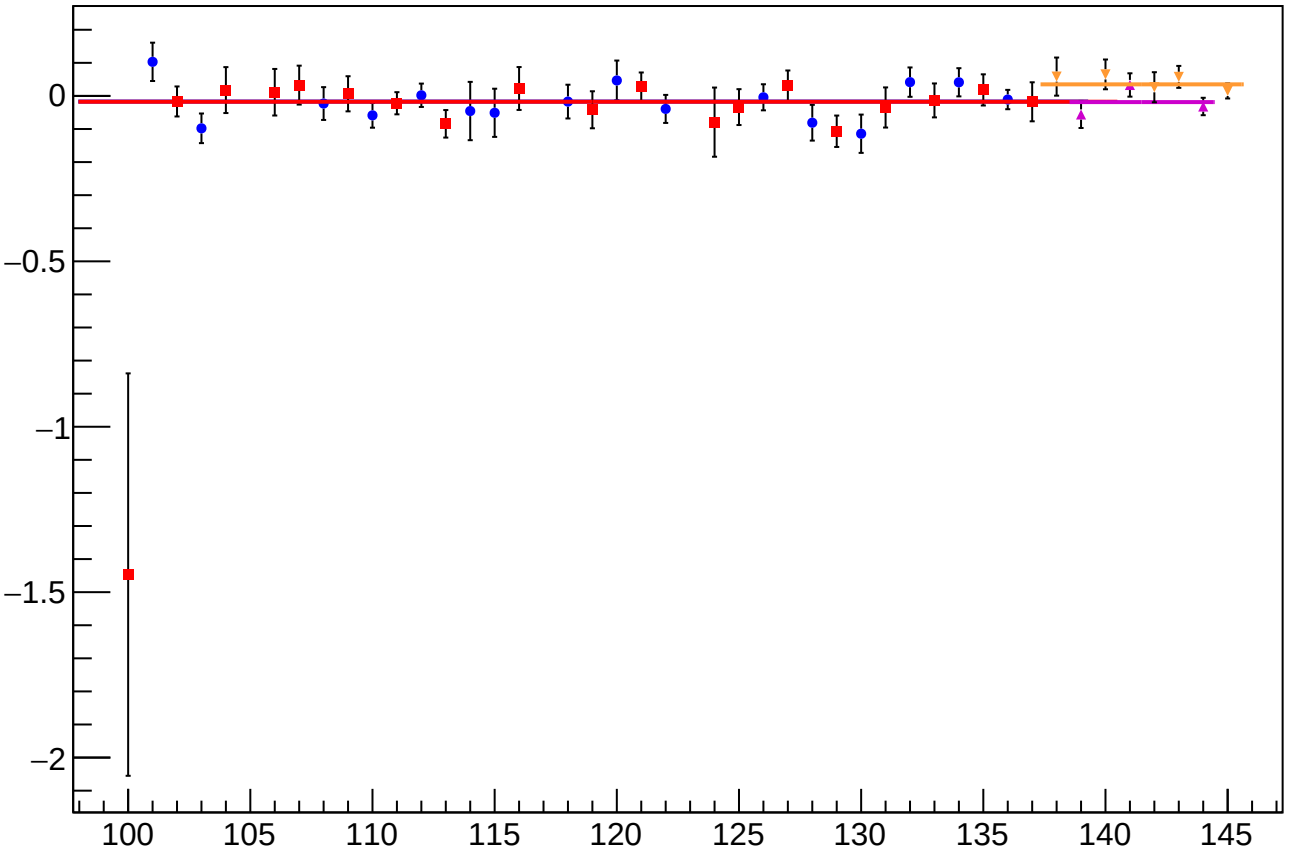
Left: 0.001+/-0.000 $\chi^2$/NDF: 2295663.0/7

Right: 0.001+/-0.000 $\chi^2$/NDF: 9101271.0/34

In: 0.001+/-0.000 $\chi^2$/NDF:5082225.2/18

Out: 0.001+/-0.000 $\chi^2$/NDF:6458227.4/23

All: 0.001+/-0.000 $\chi^2$/NDF: 11598008.3/42




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.035+/-0.016 $\chi^2$/NDF:1.9/4

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.019+/-0.019 $\chi^2$/NDF:3.2/2

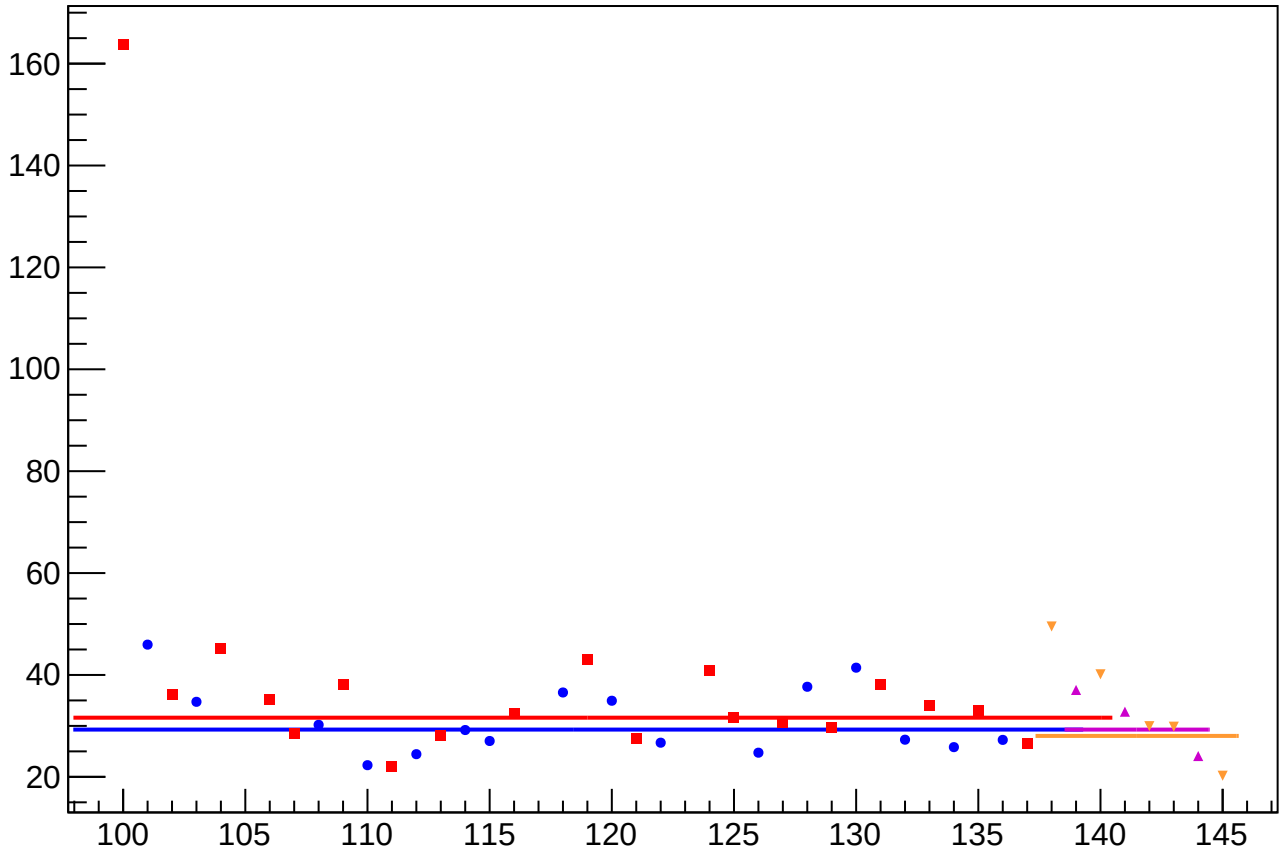
Left: 0.013+/-0.012 $\chi^2$/NDF: 10.0/7

Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.017+/-0.010 $\chi^2$/NDF:22.1/18

Out: 0.002+/-0.010 $\chi^2$/NDF:25.8/23

All: -0.008+/-0.007 $\chi^2$/NDF: 49.9/42




Right In: 29.278+/-0.008 $\chi^2$/NDF: 560654.1/15

Left Out: 28.036+/-0.011 $\chi^2$/NDF:666537.0/4

Right Out: 31.614+/-0.009 $\chi^2$/NDF: 572187.4/18

Left In: 29.274+/-0.013 $\chi^2$/NDF:170252.7/2

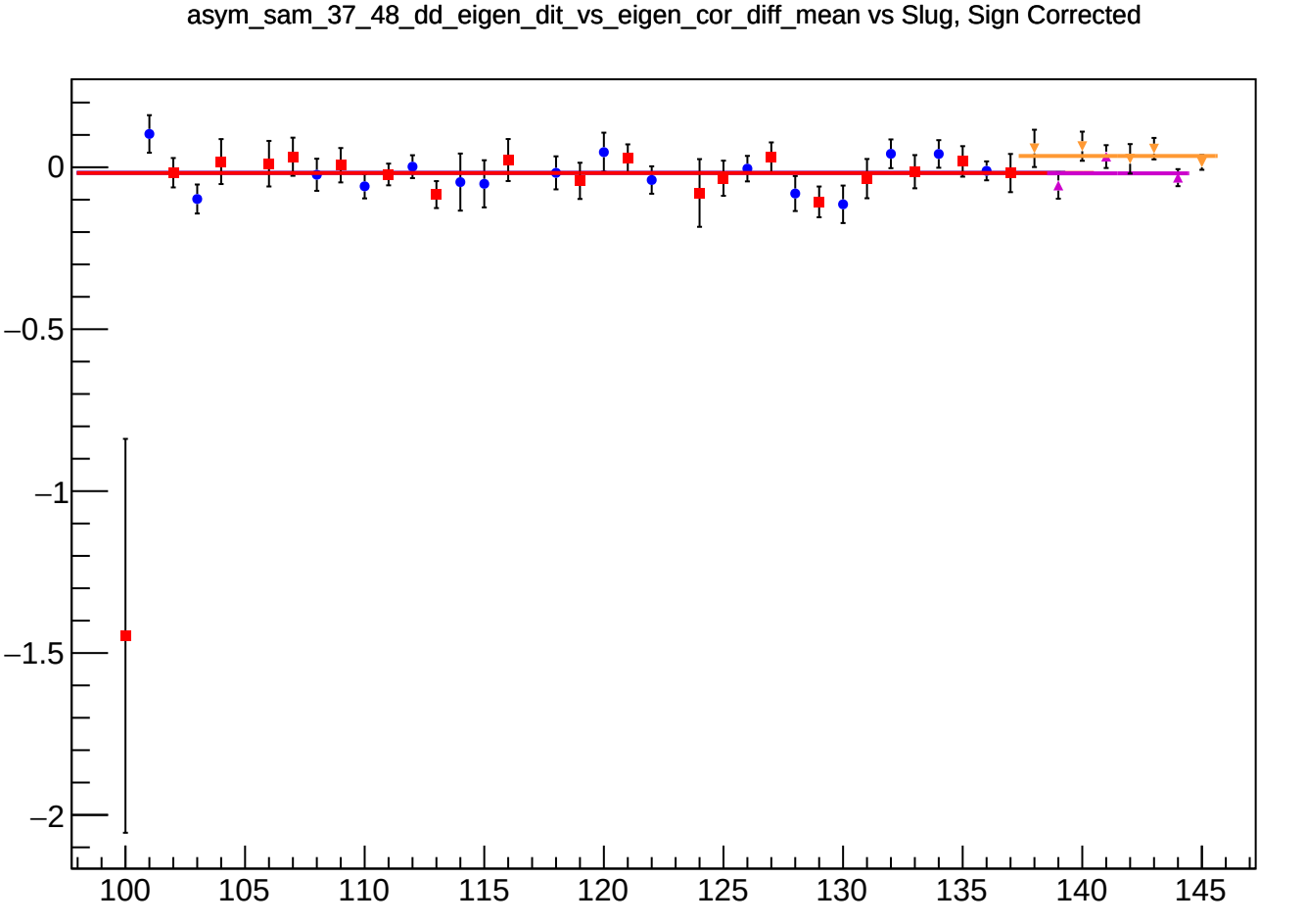
Left: 28.543+/-0.008 $\chi^2$/NDF: 841946.5/7

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.0/34

In: 29.277+/-0.007 $\chi^2$/NDF:730906.9/18

Out: 30.270+/-0.007 $\chi^2$/NDF:1304397.1/23

All: 29.781+/-0.005 $\chi^2$/NDF: 2045919.5/42




Right In: -0.017+/-0.011 $\chi^2$/NDF: 18.8/15

Left Out: 0.035+/-0.016 $\chi^2$/NDF:1.9/4

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 16.8/18

Left In: -0.019+/-0.019 $\chi^2$/NDF:3.2/2

Left: 0.013+/-0.012 $\chi^2$/NDF: 10.0/7

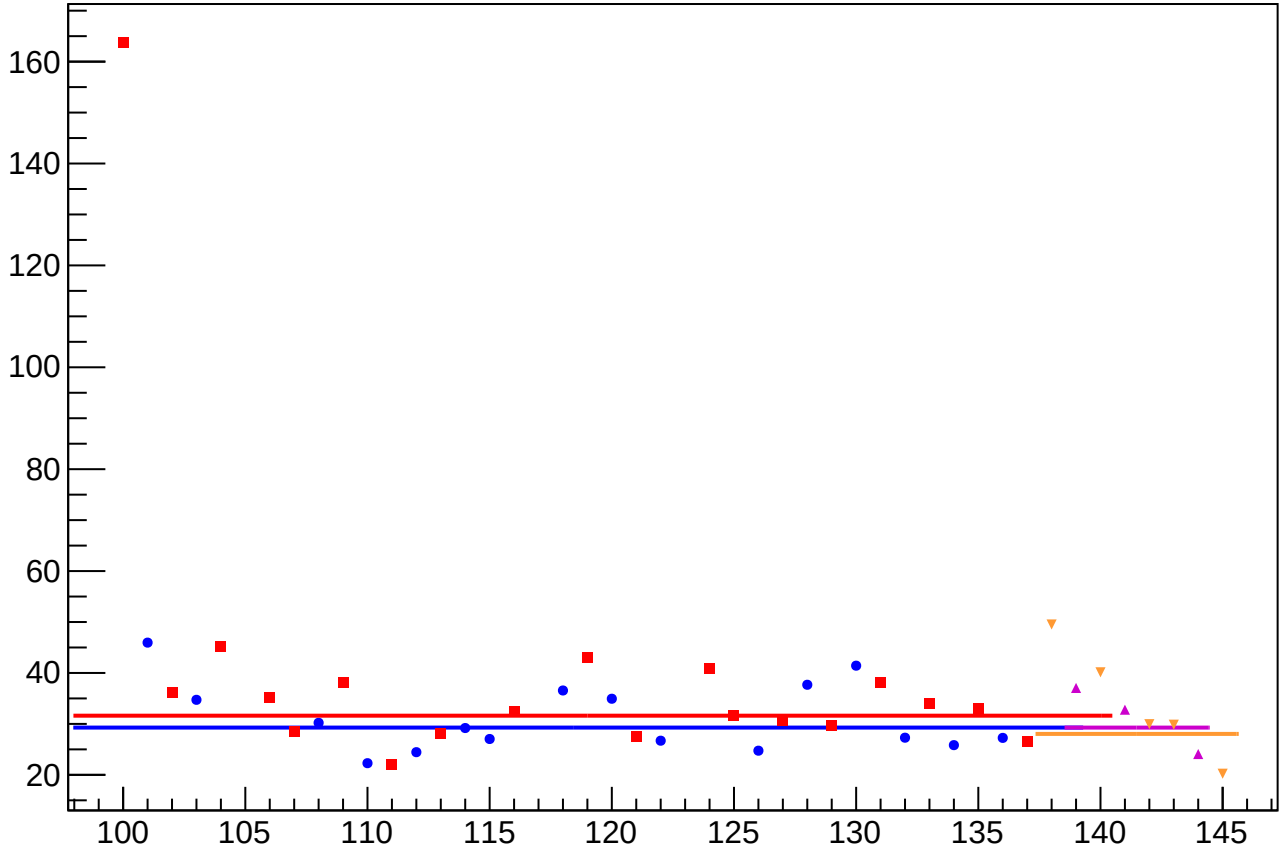
Right: -0.017+/-0.008 $\chi^2$/NDF: 35.7/34

In: -0.017+/-0.010 $\chi^2$/NDF:22.1/18

Out: 0.002+/-0.010 $\chi^2$/NDF:25.8/23

All: -0.008+/-0.007 $\chi^2$/NDF: 49.9/42

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: 28.036+/-0.011 $\chi^2$/NDF:666537.0/4

Right Out: 31.614+/-0.009 $\chi^2$/NDF: 572187.4/18

Left In: 29.274+/-0.013 $\chi^2$/NDF:170252.7/2

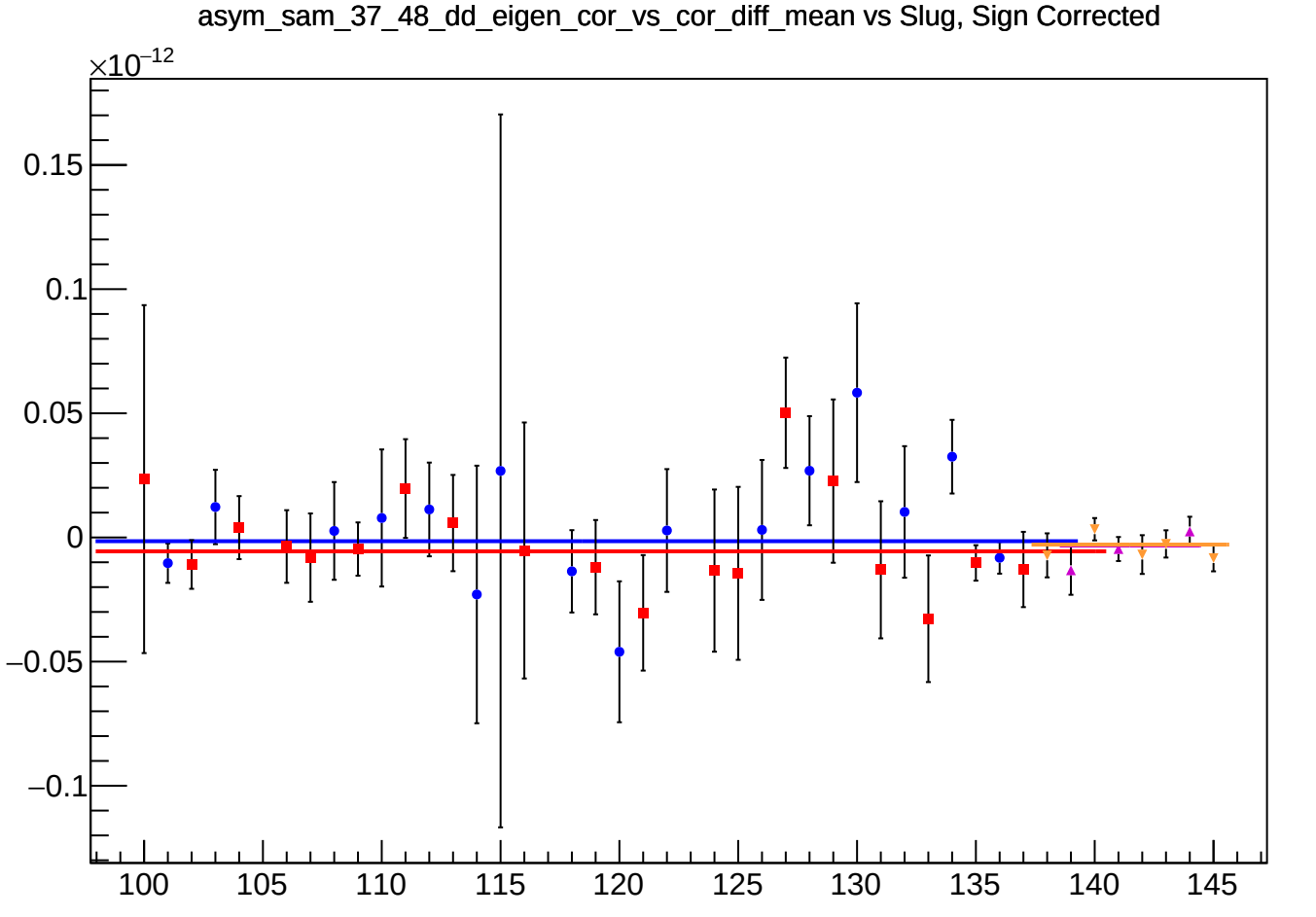
Left: 28.543+/-0.008 $\chi^2$/NDF: 841946.5/7

Right: 30.371+/-0.006 $\chi^2$/NDF: 1172478.0/34

In: 29.277+/-0.007 $\chi^2$/NDF:730906.9/18

Out: 30.270+/-0.007 $\chi^2$/NDF:1304397.1/23

All: 29.781+/-0.005 $\chi^2$/NDF: 2045919.5/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.9/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.3/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.0/2

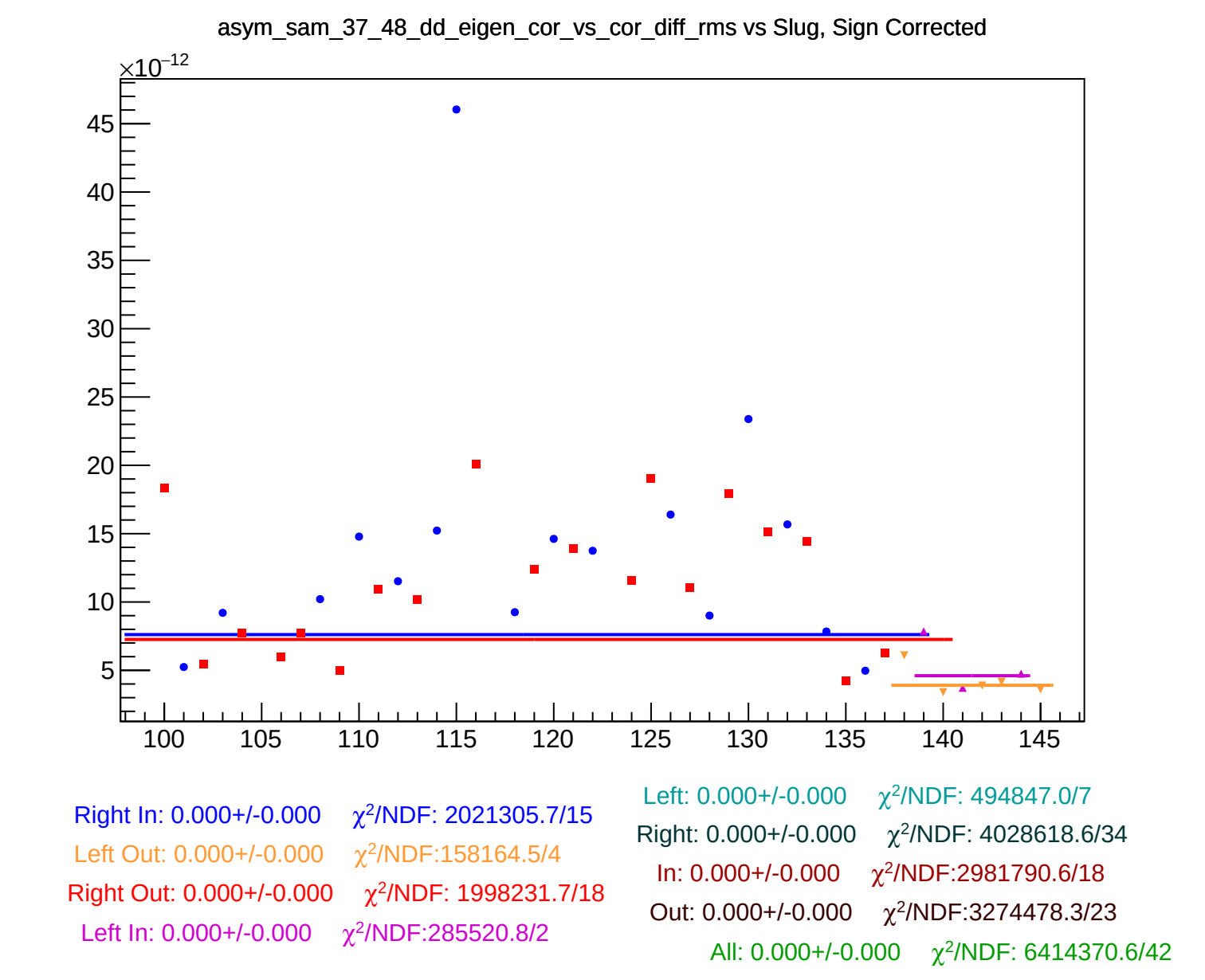
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.5/7

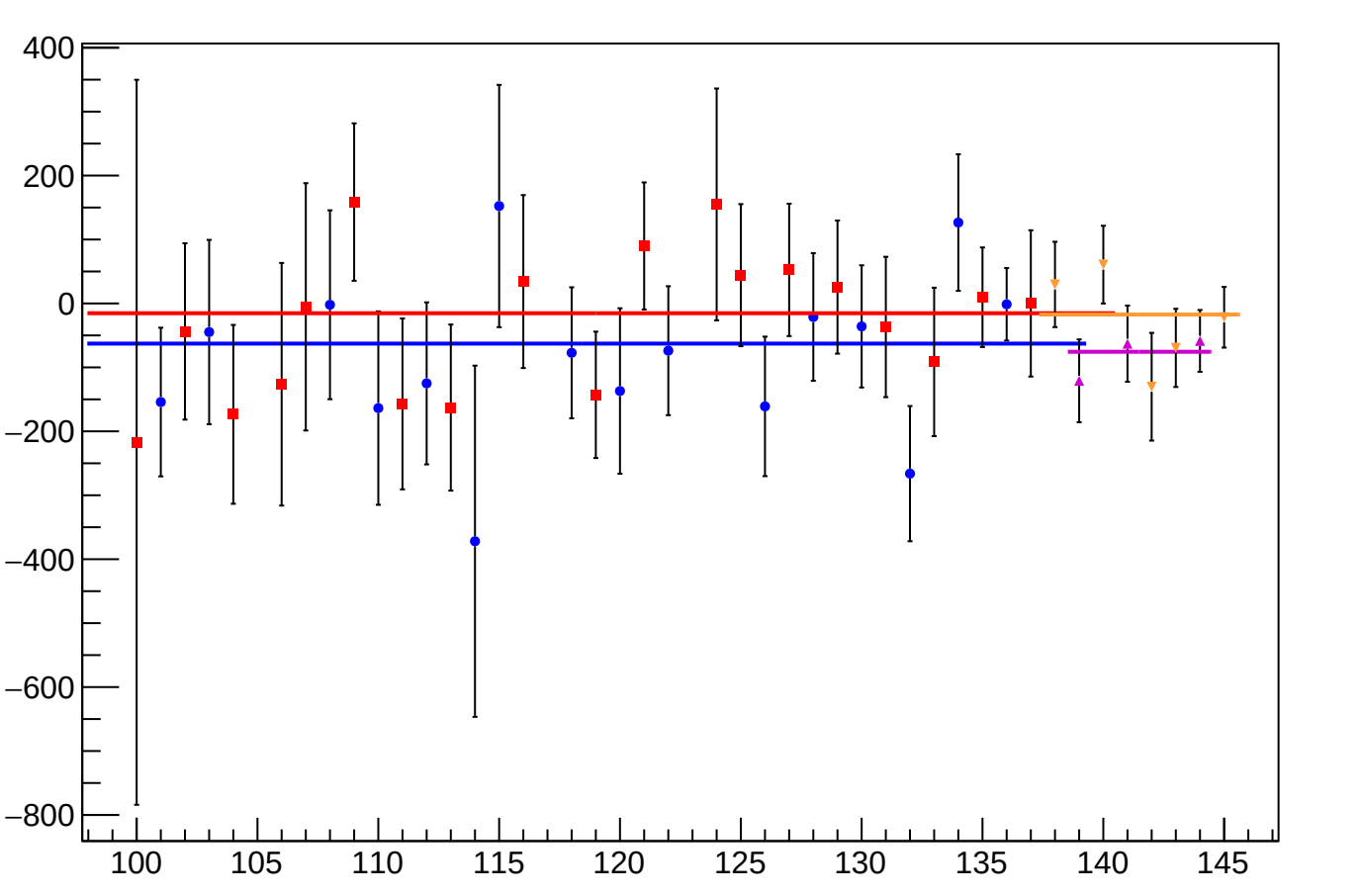
Right: -0.000+/-0.000 $\chi^2$/NDF: 30.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:19.1/18

Out: -0.000+/-0.000 $\chi^2$/NDF:17.1/23

All: -0.000+/-0.000 $\chi^2$/NDF: 36.4/42


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
45
40
35
30
25
20
15
10
5
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2021305.7/15
Left Out: 0.000+/-0.000 χ²/NDF:158164.5/4
Right Out: 0.000+/-0.000 χ²/NDF: 1998231.7/18
Left In: 0.000+/-0.000 χ²/NDF:285520.8/2
Left: 0.000+/-0.000 χ²/NDF: 494847.0/7
Right: 0.000+/-0.000 χ²/NDF: 4028618.6/34
In: 0.000+/-0.000 χ²/NDF:2981790.6/18
Out: 0.000+/-0.000 χ²/NDF:3274478.3/23
All: 0.000+/-0.000 χ²/NDF: 6414370.6/42




Right In: -62.798+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: -17.376+/-27.239 $\chi^2$/NDF:4.7/4

Right Out: -15.288+/-27.770 $\chi^2$/NDF: 11.5/18

Left In: -75.561+/-32.480 $\chi^2$/NDF:0.7/2

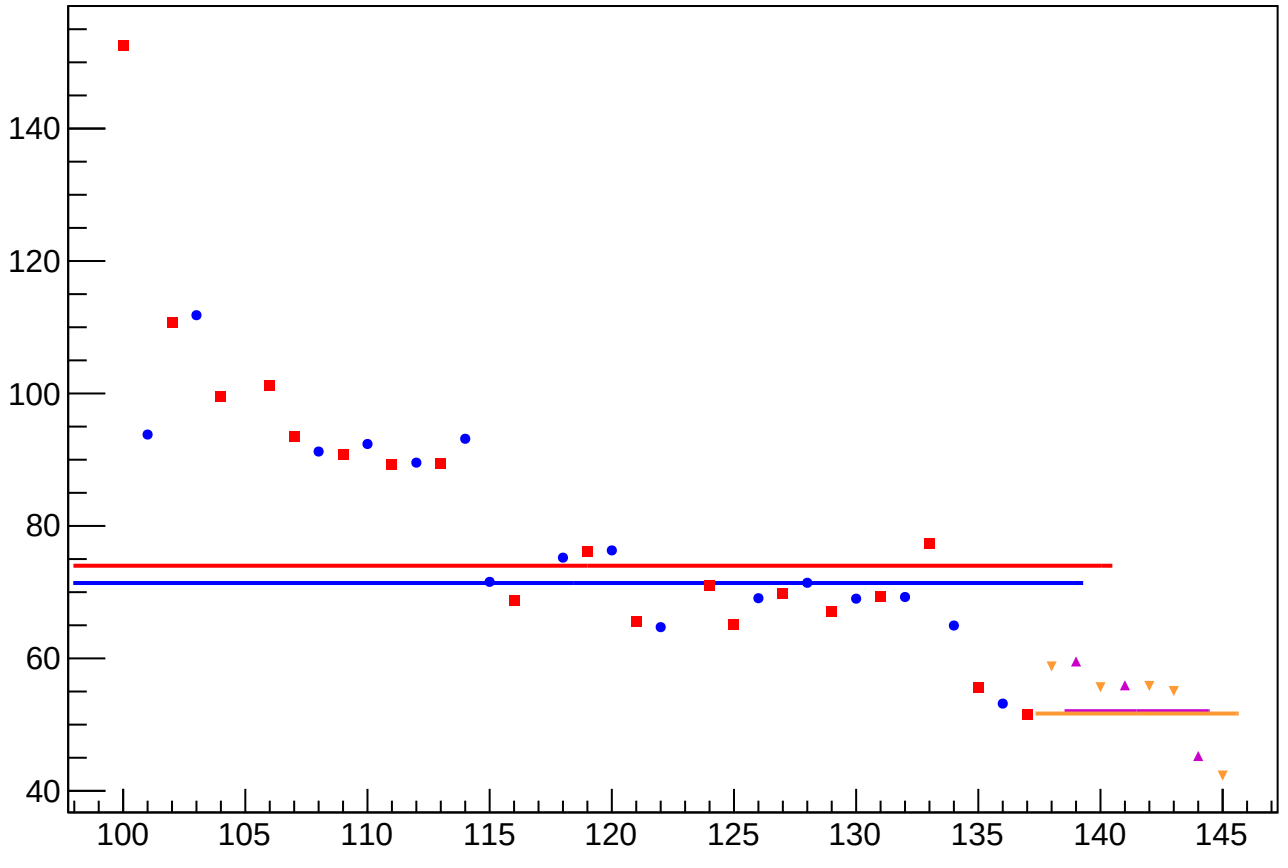
Left: -41.401+/-20.871 $\chi^2$/NDF: 7.2/7

Right: -39.524+/-19.436 $\chi^2$/NDF: 26.4/34

In: -68.062+/-20.859 $\chi^2$/NDF:14.2/18

Out: -16.352+/-19.446 $\chi^2$/NDF:16.2/23

All: -40.396+/-14.224 $\chi^2$/NDF: 33.7/42




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590909.3/15

Left Out: 51.677+/-0.019 $\chi^2$/NDF:120187.7/4

Right Out: 73.994+/-0.020 $\chi^2$/NDF: 638445.5/18

Left In: 52.028+/-0.023 $\chi^2$/NDF:74674.6/2

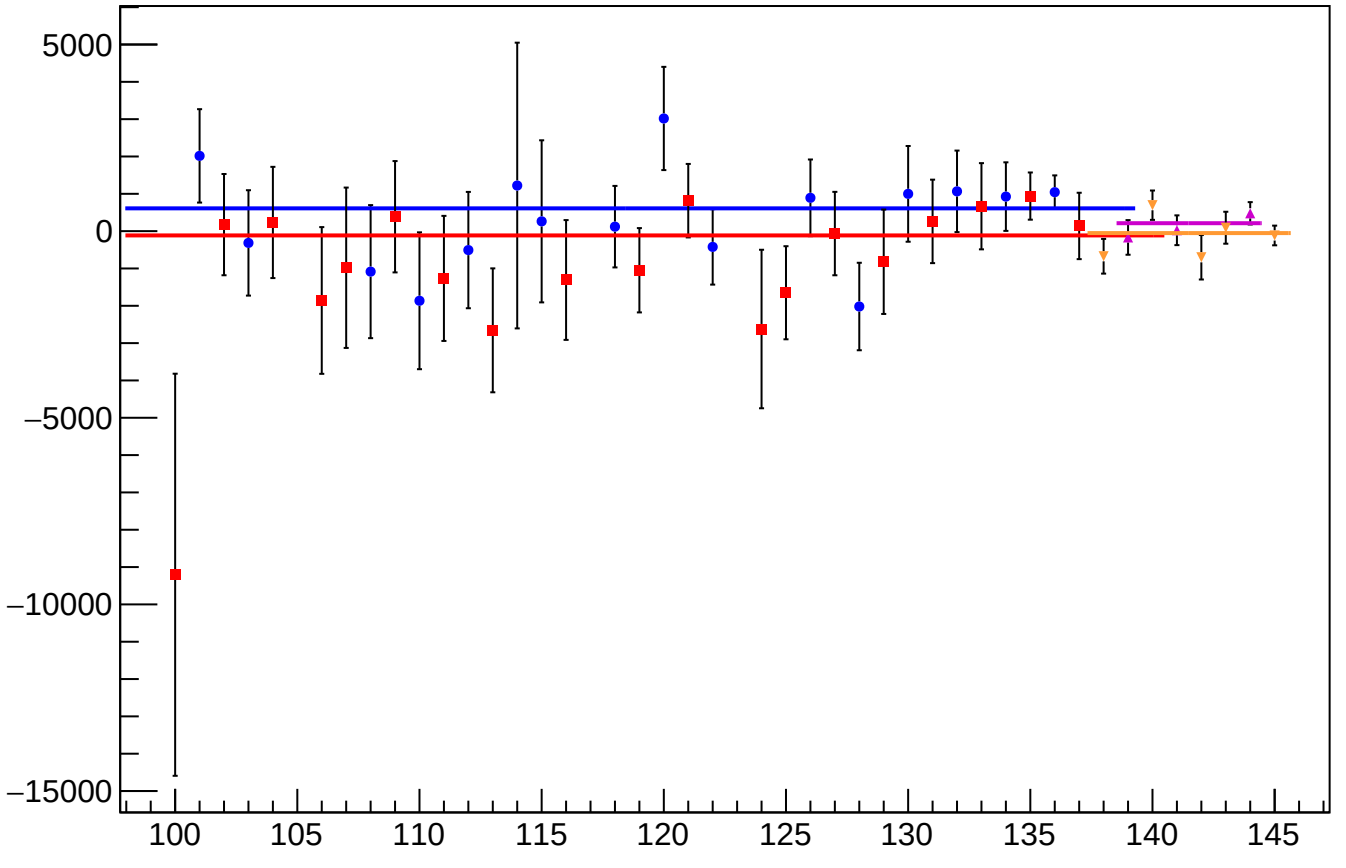
Left: 51.822+/-0.015 $\chi^2$/NDF: 194999.3/7

Right: 72.662+/-0.014 $\chi^2$/NDF: 1238370.4/34

In: 63.400+/-0.015 $\chi^2$/NDF:1082885.8/18

Out: 62.620+/-0.014 $\chi^2$/NDF:1416923.0/23

All: 62.983+/-0.010 $\chi^2$/NDF: 2501306.1/42




Right In: 610.561+/-266.802 $\chi^2$/NDF: 15.7/15

Left Out: -52.036+/-172.109 $\chi^2$/NDF:6.8/4

Right Out: -114.633+/-284.312 $\chi^2$/NDF: 15.6/18

Left In: 212.812+/-212.795 $\chi^2$/NDF:1.7/2

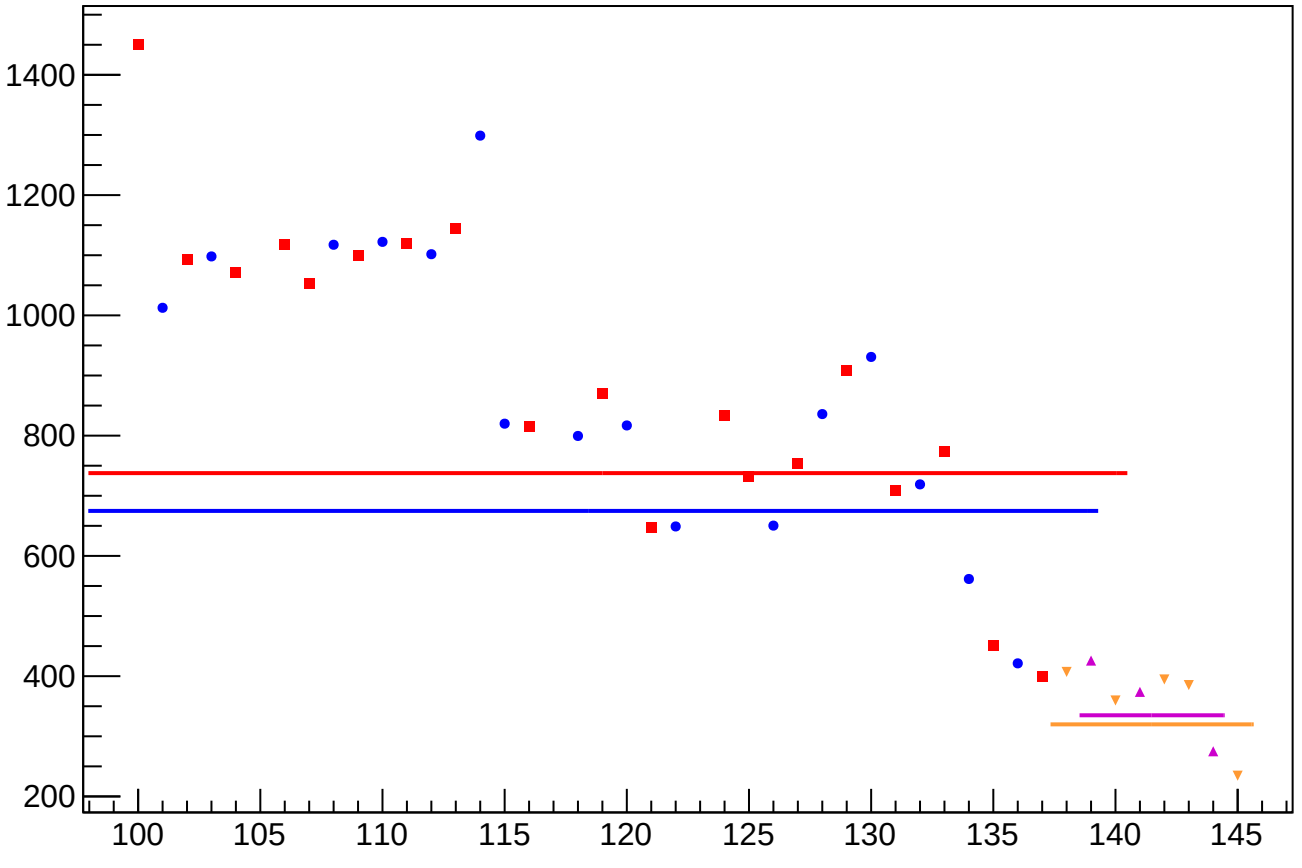
Left: 52.702+/-133.818 $\chi^2$/NDF: 9.4/7

Right: 270.981+/-194.553 $\chi^2$/NDF: 34.7/34

In: 367.457+/-166.362 $\chi^2$/NDF:18.7/18

Out: -68.823+/-147.233 $\chi^2$/NDF:22.3/23

All: 122.804+/-110.255 $\chi^2$/NDF: 44.9/42




Right In: 674.830+/-0.189 $\chi^2$/NDF: 1617598.7/15

Left Out: 319.860+/-0.122 $\chi^2$/NDF:378397.8/4

Right Out: 737.674+/-0.201 $\chi^2$/NDF: 1516748.6/18

Left In: 334.969+/-0.150 $\chi^2$/NDF:175852.1/2

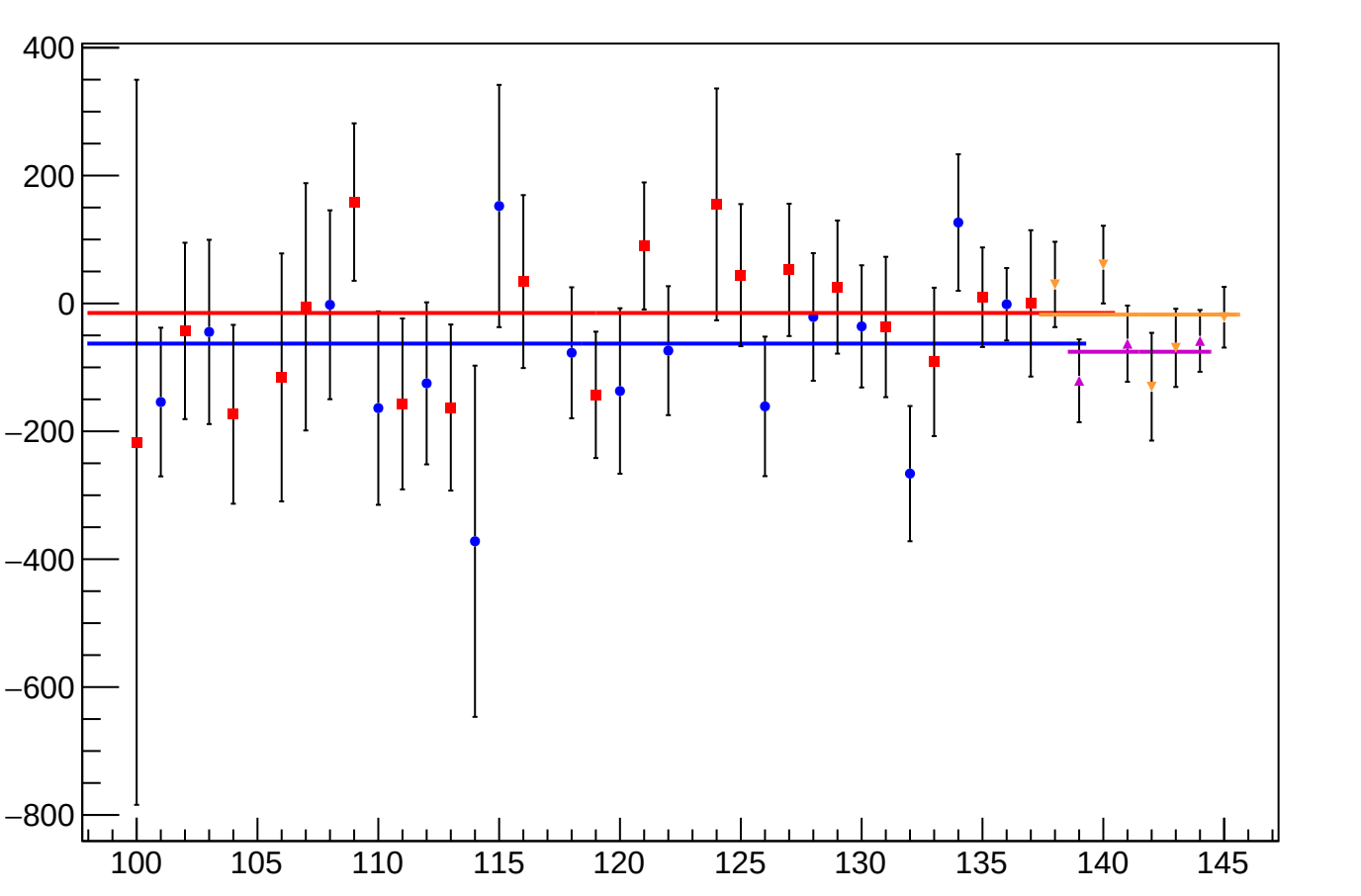
Left: 325.835+/-0.095 $\chi^2$/NDF: 560345.9/7

Right: 704.257+/-0.138 $\chi^2$/NDF: 3186306.4/34

In: 467.108+/-0.118 $\chi^2$/NDF:3776968.3/18

Out: 431.908+/-0.104 $\chi^2$/NDF:5056059.1/23

All: 447.369+/-0.078 $\chi^2$/NDF: 8883236.4/42




Right In: -62.789+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: -17.373+/-27.239 $\chi^2$/NDF:4.7/4

Right Out: -14.932+/-27.783 $\chi^2$/NDF: 11.4/18

Left In: -75.565+/-32.480 $\chi^2$/NDF:0.7/2

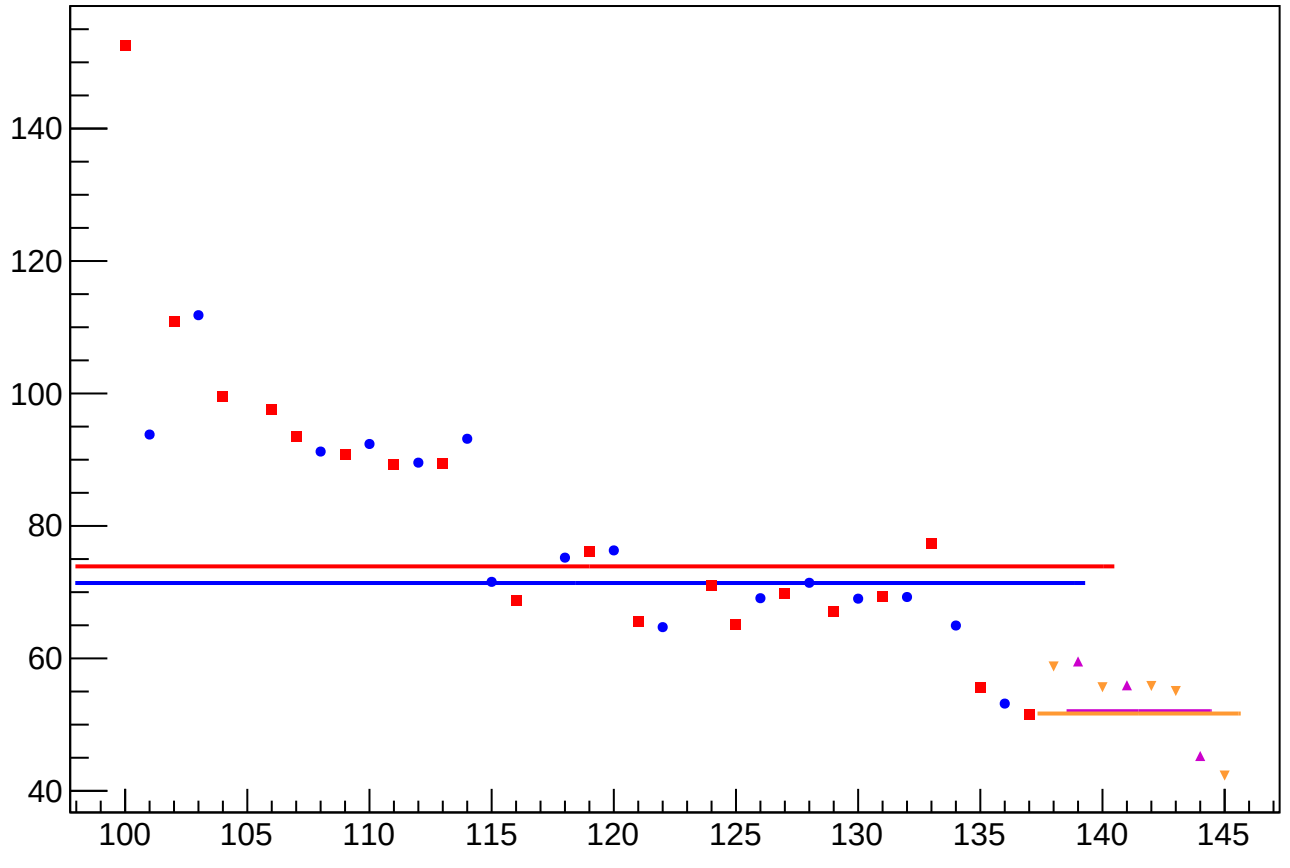
Left: -41.401+/-20.871 $\chi^2$/NDF: 7.2/7

Right: -39.357+/-19.441 $\chi^2$/NDF: 26.4/34

In: -68.058+/-20.859 $\chi^2$/NDF:14.2/18

Out: -16.176+/-19.450 $\chi^2$/NDF:16.1/23

All: -40.306+/-14.226 $\chi^2$/NDF: 33.6/42




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590911.7/15

Left Out: 51.677+/-0.019 $\chi^2$/NDF:120187.7/4

Right Out: 73.894+/-0.020 $\chi^2$/NDF: 627014.3/18

Left In: 52.028+/-0.023 $\chi^2$/NDF:74674.6/2

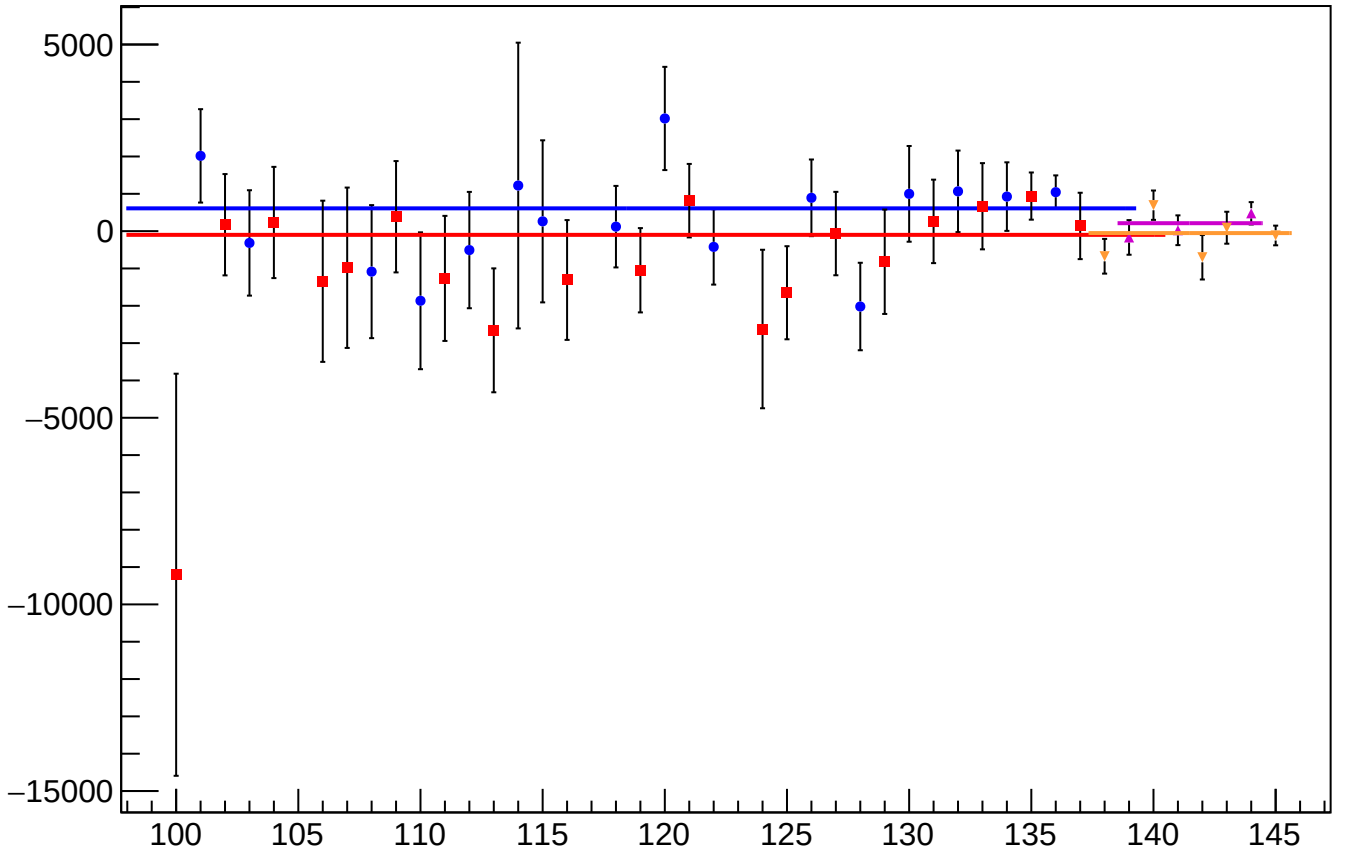
Left: 51.822+/-0.015 $\chi^2$/NDF: 194999.3/7

Right: 72.613+/-0.014 $\chi^2$/NDF: 1226261.8/34

In: 63.400+/-0.015 $\chi^2$/NDF:1082888.4/18

Out: 62.566+/-0.014 $\chi^2$/NDF:1399303.3/23

All: 62.954+/-0.010 $\chi^2$/NDF: 2483903.9/42




Right In: 610.549+/-266.803 $\chi^2$/NDF: 15.7/15

Left Out: -52.036+/-172.109 $\chi^2$/NDF:6.8/4

Right Out: -99.555+/-284.831 $\chi^2$/NDF: 15.1/18

Left In: 212.804+/-212.795 $\chi^2$/NDF:1.7/2

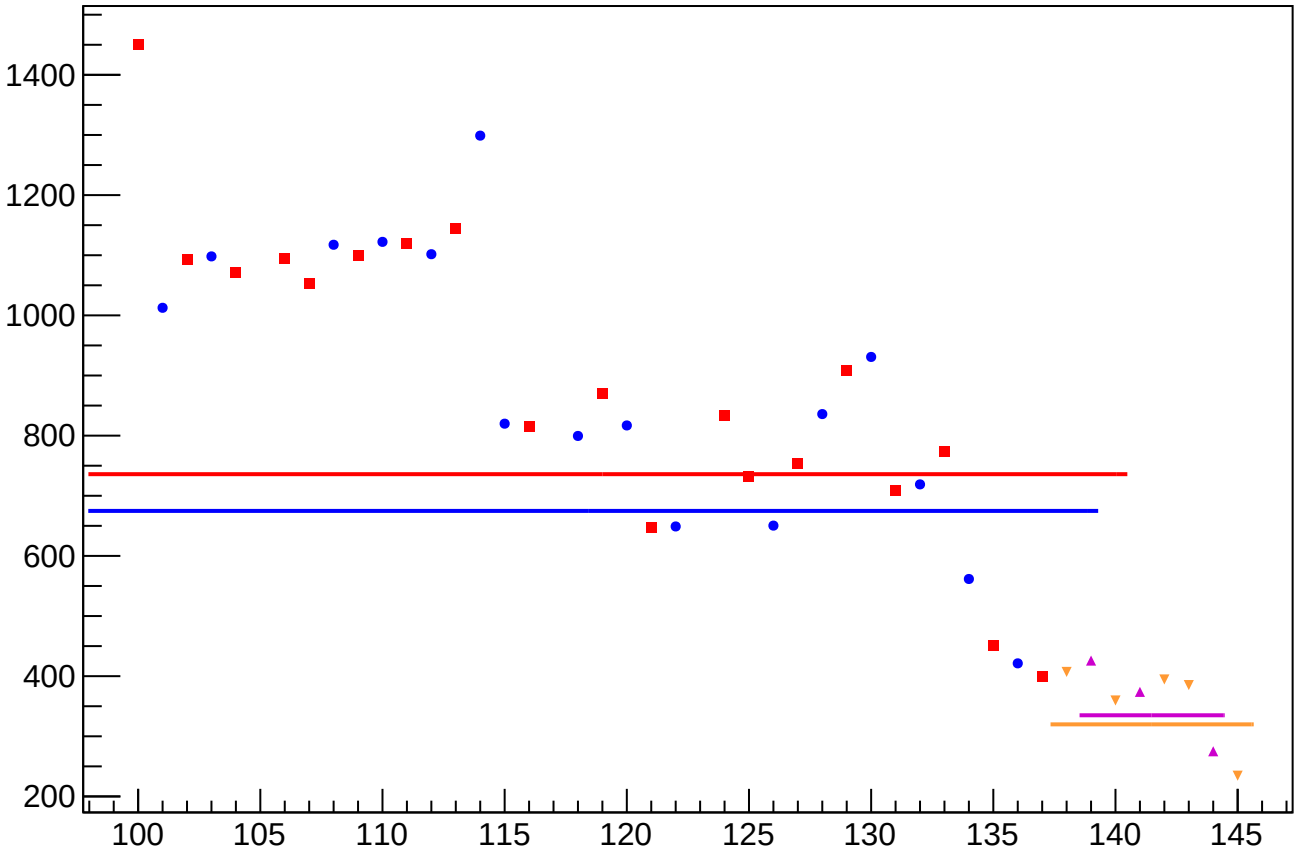
Left: 52.698+/-133.818 $\chi^2$/NDF: 9.4/7

Right: 278.680+/-194.720 $\chi^2$/NDF: 34.1/34

In: 367.447+/-166.362 $\chi^2$/NDF:18.7/18

Out: -64.746+/-147.305 $\chi^2$/NDF:21.9/23

All: 125.190+/-110.285 $\chi^2$/NDF: 44.4/42




Right In: 674.831+/-0.189 $\chi^2$/NDF: 1617624.1/15

Left Out: 319.859+/-0.122 $\chi^2$/NDF:378402.3/4

Right Out: 735.919+/-0.201 $\chi^2$/NDF: 1496977.2/18

Left In: 334.970+/-0.150 $\chi^2$/NDF:175852.4/2

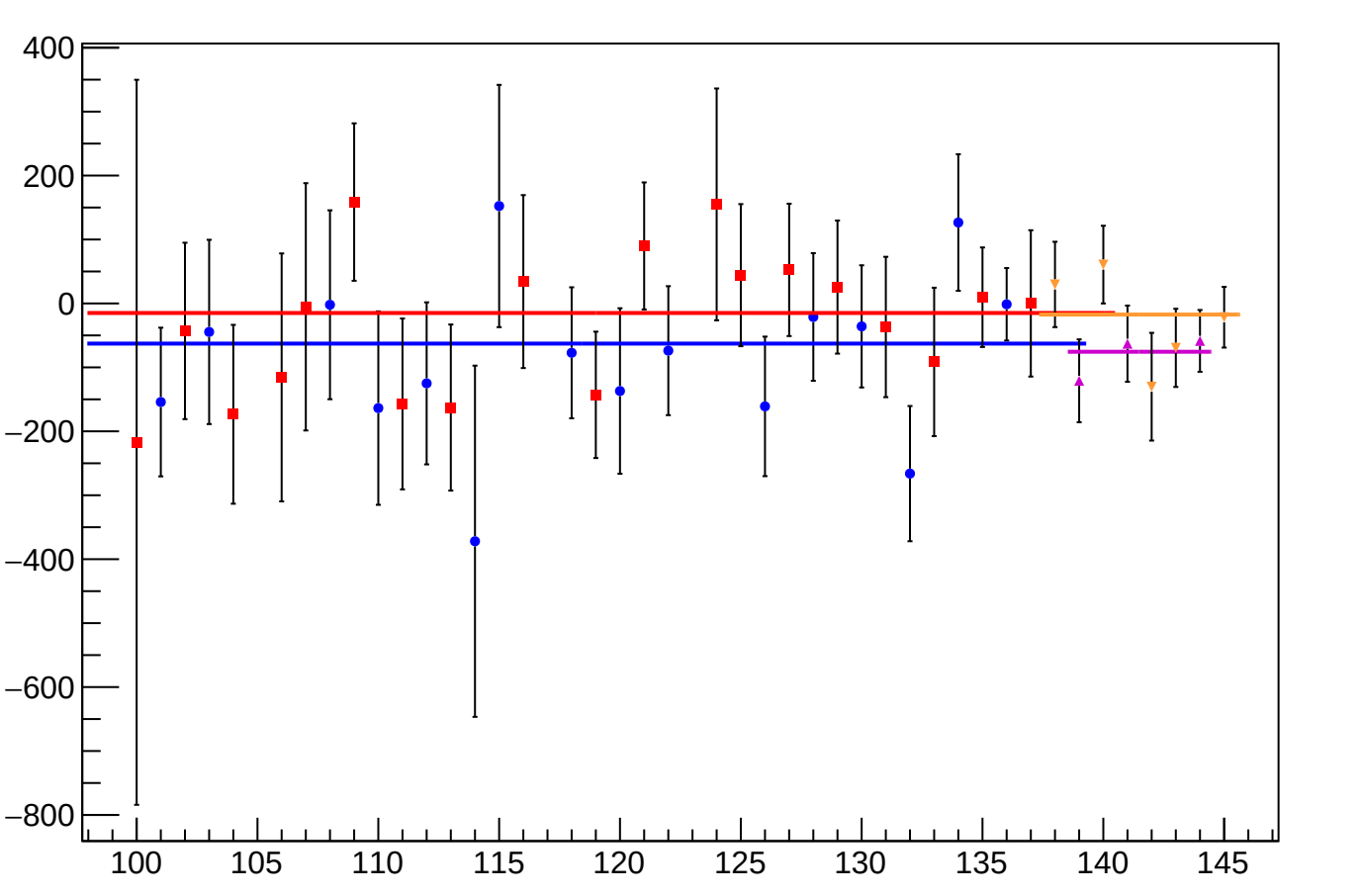
Left: 325.835+/-0.095 $\chi^2$/NDF: 560351.1/7

Right: 703.381+/-0.138 $\chi^2$/NDF: 3163603.4/34

In: 467.108+/-0.118 $\chi^2$/NDF:3776991.4/18

Out: 431.140+/-0.104 $\chi^2$/NDF:5001441.5/23

All: 446.947+/-0.078 $\chi^2$/NDF: 8830836.3/42




Right In: -62.789+/-27.213 $\chi^2$/NDF: 13.5/15

Left Out: -17.373+/-27.239 $\chi^2$/NDF:4.7/4

Right Out: -14.932+/-27.783 $\chi^2$/NDF: 11.4/18

Left In: -75.565+/-32.480 $\chi^2$/NDF:0.7/2

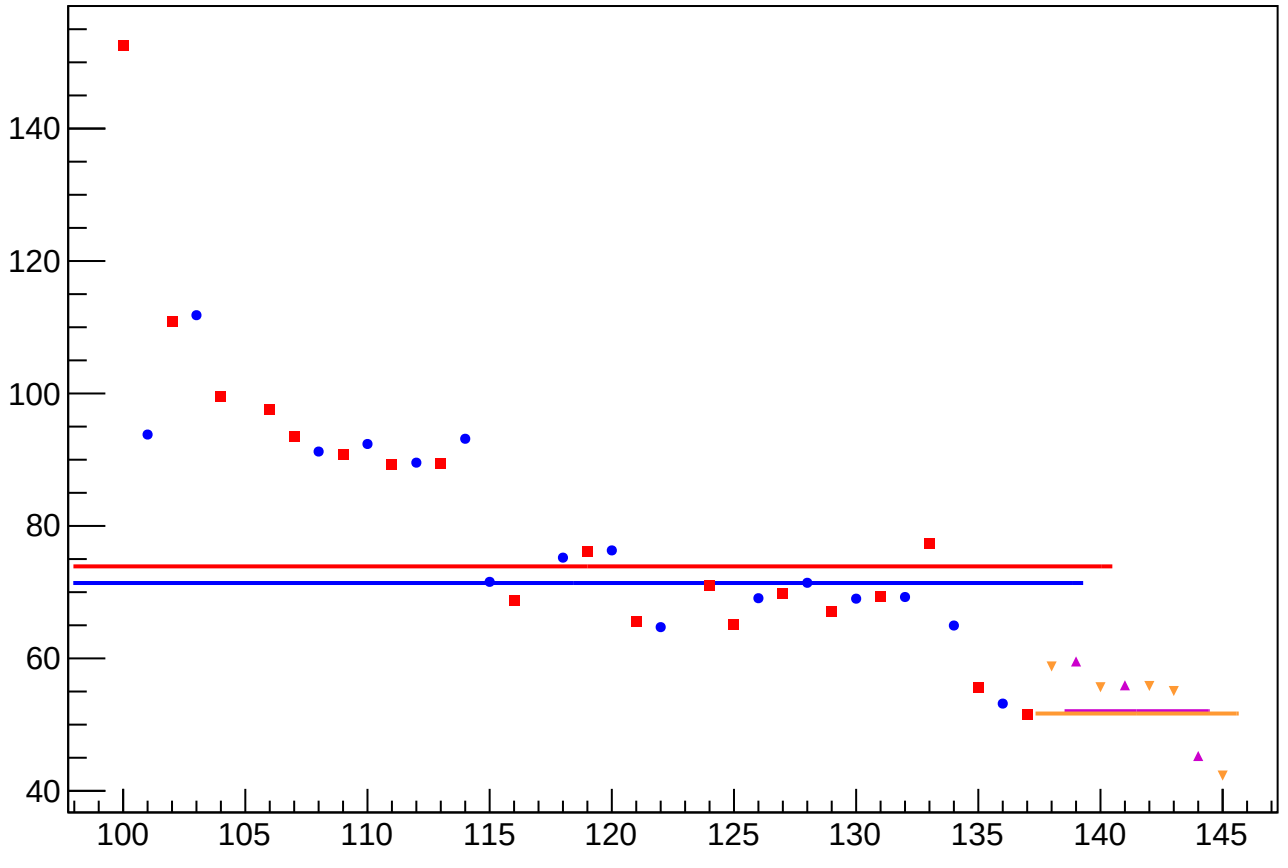
Left: -41.401+/-20.871 $\chi^2$/NDF: 7.2/7

Right: -39.357+/-19.441 $\chi^2$/NDF: 26.4/34

In: -68.058+/-20.859 $\chi^2$/NDF:14.2/18

Out: -16.176+/-19.450 $\chi^2$/NDF:16.1/23

All: -40.306+/-14.226 $\chi^2$/NDF: 33.6/42




Right In: 71.383+/-0.019 $\chi^2$/NDF: 590911.7/15

Left Out: 51.677+/-0.019 $\chi^2$/NDF:120187.7/4

Right Out: 73.894+/-0.020 $\chi^2$/NDF: 627014.3/18

Left In: 52.028+/-0.023 $\chi^2$/NDF:74674.6/2

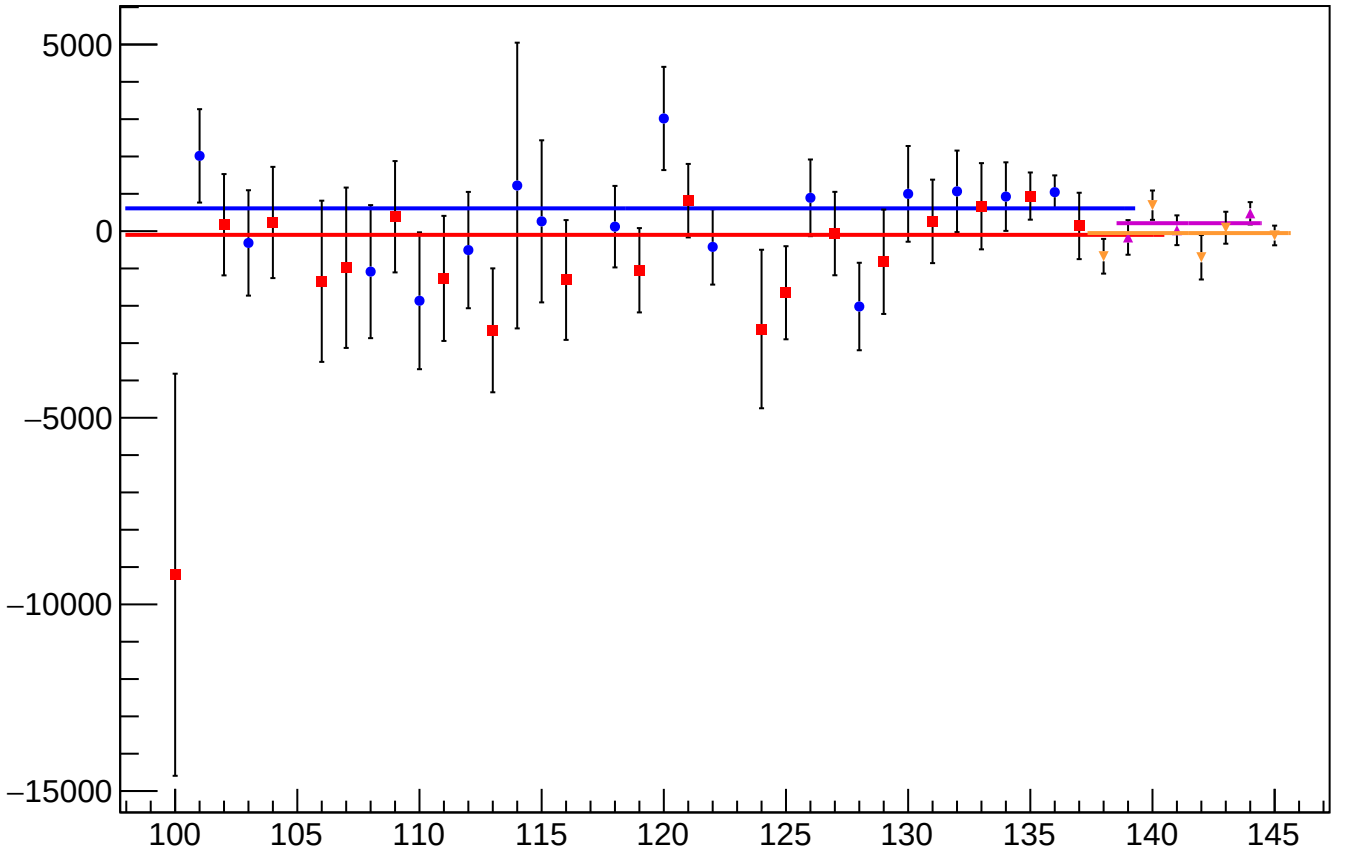
Left: 51.822+/-0.015 $\chi^2$/NDF: 194999.3/7

Right: 72.613+/-0.014 $\chi^2$/NDF: 1226261.8/34

In: 63.400+/-0.015 $\chi^2$/NDF:1082888.4/18

Out: 62.566+/-0.014 $\chi^2$/NDF:1399303.3/23

All: 62.954+/-0.010 $\chi^2$/NDF: 2483903.9/42




Right In: 610.549+/-266.803 $\chi^2$/NDF: 15.7/15

Left Out: -52.036+/-172.109 $\chi^2$/NDF:6.8/4

Right Out: -99.555+/-284.831 $\chi^2$/NDF: 15.1/18

Left In: 212.804+/-212.795 $\chi^2$/NDF:1.7/2

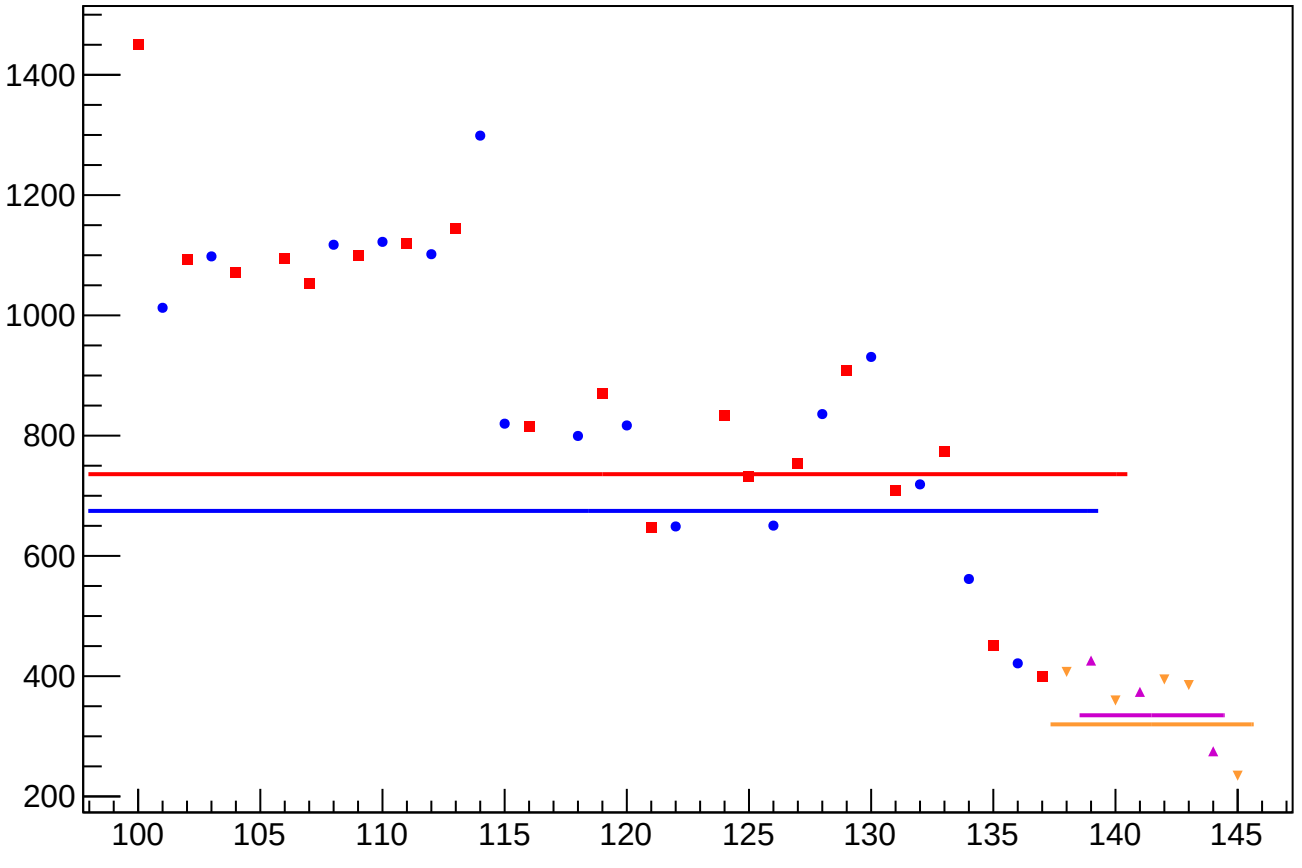
Left: 52.698+/-133.818 $\chi^2$/NDF: 9.4/7

Right: 278.680+/-194.720 $\chi^2$/NDF: 34.1/34

In: 367.447+/-166.362 $\chi^2$/NDF:18.7/18

Out: -64.746+/-147.305 $\chi^2$/NDF:21.9/23

All: 125.190+/-110.285 $\chi^2$/NDF: 44.4/42




Right In: 674.831+/-0.189 $\chi^2$/NDF: 1617624.1/15

Left Out: 319.859+/-0.122 $\chi^2$/NDF:378402.3/4

Right Out: 735.919+/-0.201 $\chi^2$/NDF: 1496977.2/18

Left In: 334.970+/-0.150 $\chi^2$/NDF:175852.4/2

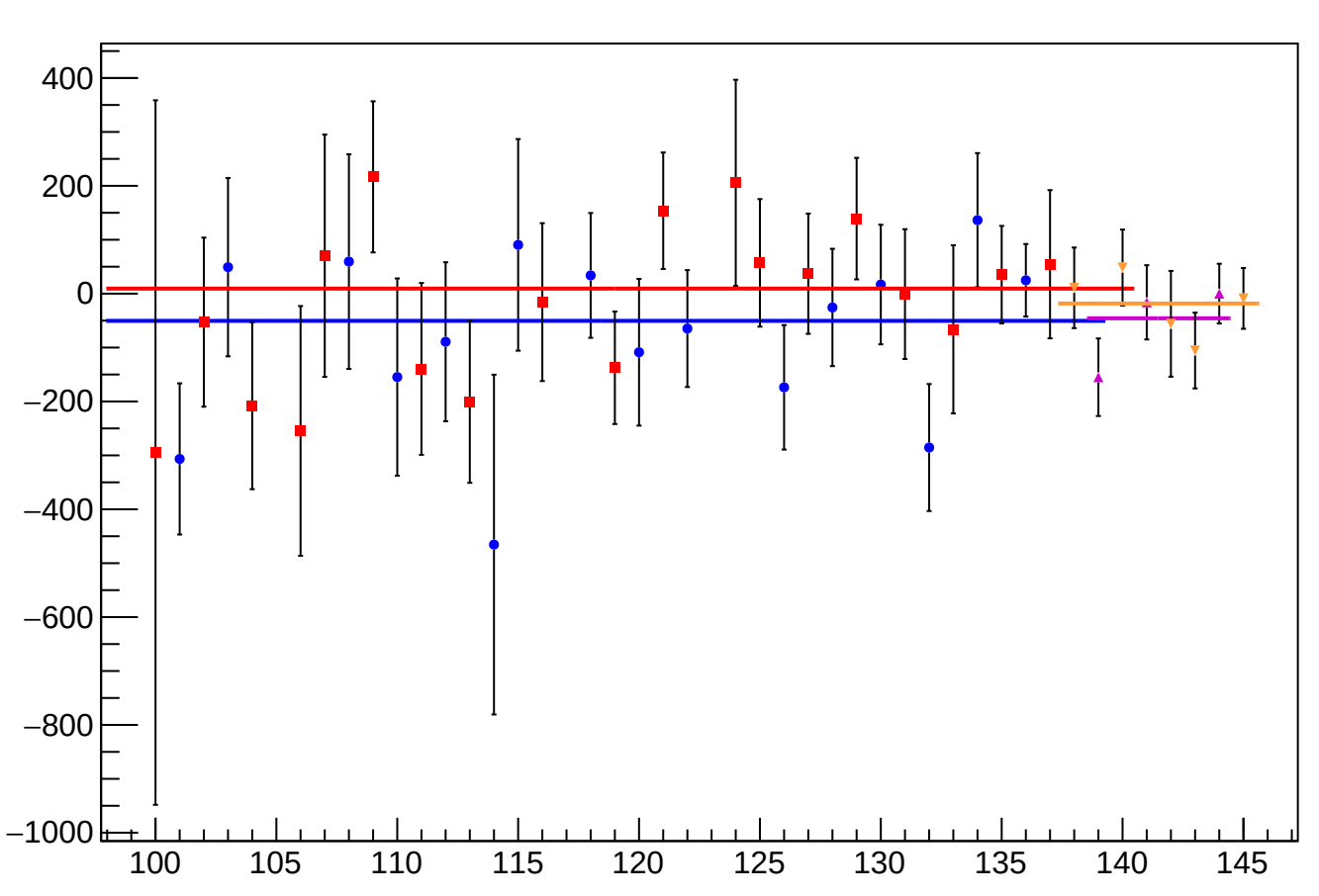
Left: 325.835+/-0.095 $\chi^2$/NDF: 560351.1/7

Right: 703.381+/-0.138 $\chi^2$/NDF: 3163603.4/34

In: 467.108+/-0.118 $\chi^2$/NDF:3776991.4/18

Out: 431.140+/-0.104 $\chi^2$/NDF:5001441.5/23

All: 446.947+/-0.078 $\chi^2$/NDF: 8830836.3/42




Right In: -50.465+/-31.061 $\chi^2$/NDF: 16.4/15

Left Out: -18.225+/-31.599 $\chi^2$/NDF:2.8/4

Right Out: 9.380+/-31.235 $\chi^2$/NDF: 15.6/18

Left In: -45.702+/-37.026 $\chi^2$/NDF:3.2/2

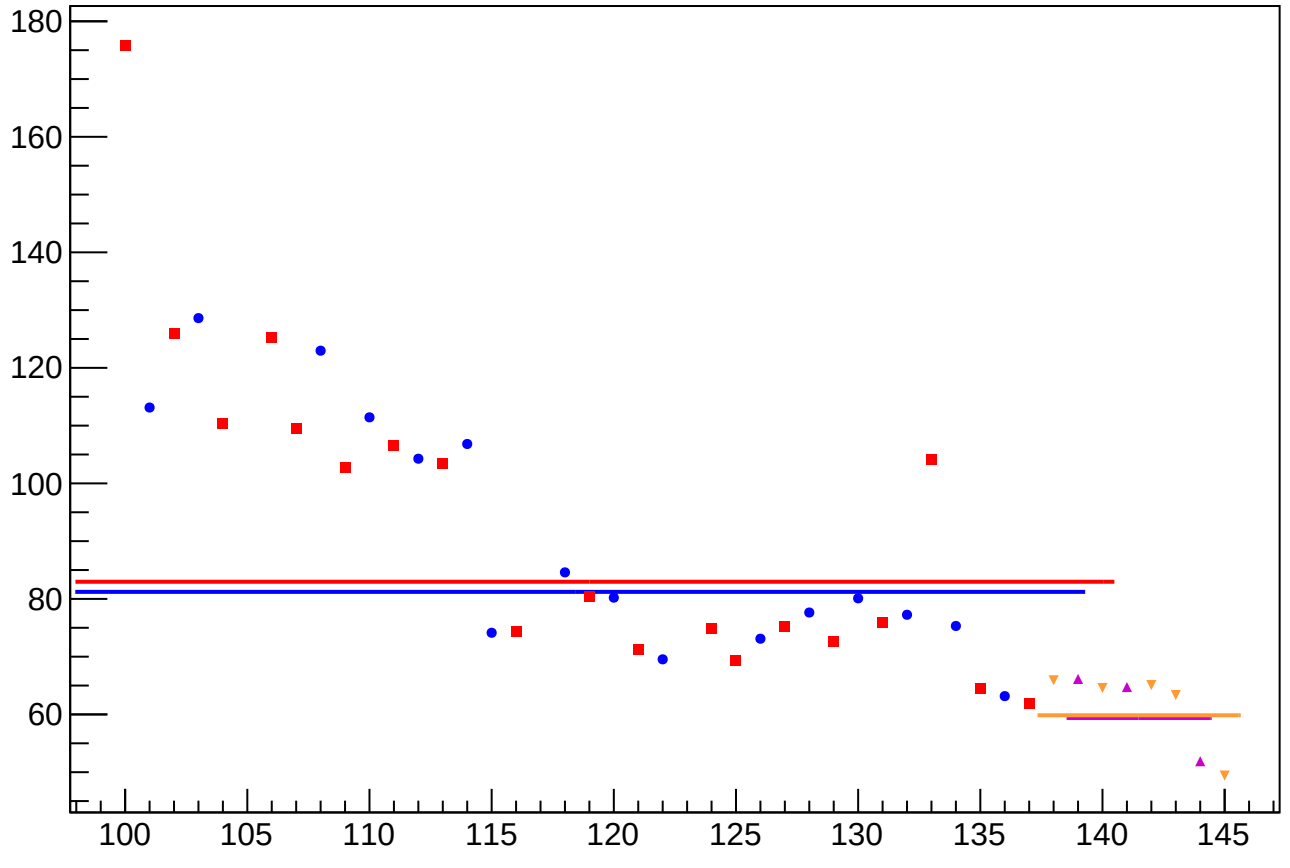
Left: -29.803+/-24.036 $\chi^2$/NDF: 6.3/7

Right: -20.709+/-22.025 $\chi^2$/NDF: 33.8/34

In: -48.498+/-23.797 $\chi^2$/NDF:19.6/18

Out: -4.262+/-22.214 $\chi^2$/NDF:18.7/23

All: -24.860+/-16.238 $\chi^2$/NDF: 40.2/42




Right In: 81.218+/-0.022 $\chi^2$/NDF: 662873.6/15

Left Out: 59.852+/-0.022 $\chi^2$/NDF:101336.7/4

Right Out: 82.971+/-0.022 $\chi^2$/NDF: 730384.9/18

Left In: 59.385+/-0.026 $\chi^2$/NDF:66222.6/2

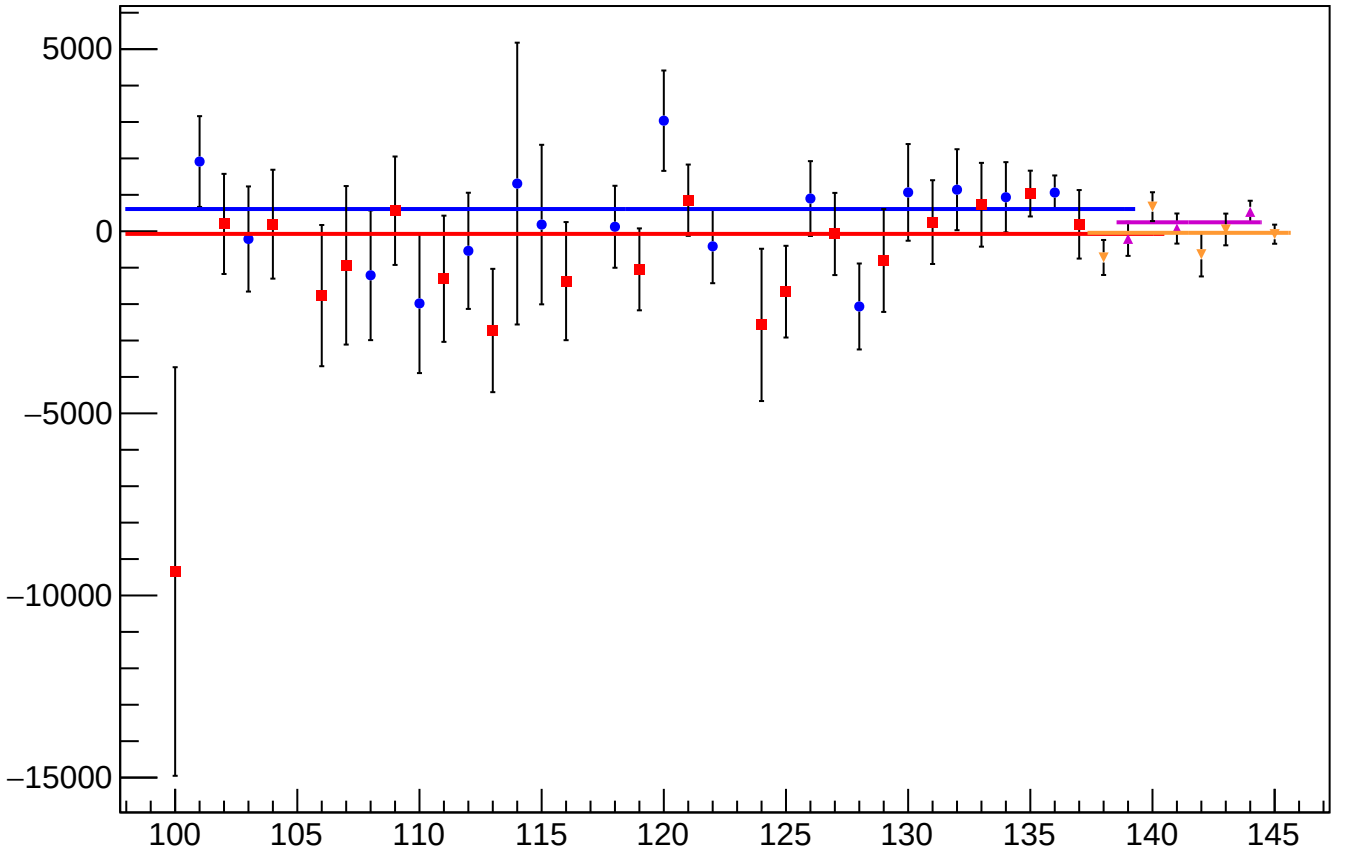
Left: 59.655+/-0.017 $\chi^2$/NDF: 167743.6/7

Right: 82.090+/-0.016 $\chi^2$/NDF: 1396425.1/34

In: 72.200+/-0.017 $\chi^2$/NDF:1137252.7/18

Out: 71.546+/-0.016 $\chi^2$/NDF:1373200.8/23

All: 71.850+/-0.011 $\chi^2$/NDF: 2511261.2/42




Right In: 610.383+/-273.982 $\chi^2$/NDF: 15.8/15

Left Out: -42.946+/-173.523 $\chi^2$/NDF:6.3/4

Right Out: -72.311+/-286.830 $\chi^2$/NDF: 16.2/18

Left In: 245.875+/-217.371 $\chi^2$/NDF:2.0/2

Left: 69.469+/-135.612 $\chi^2$/NDF: 9.3/7

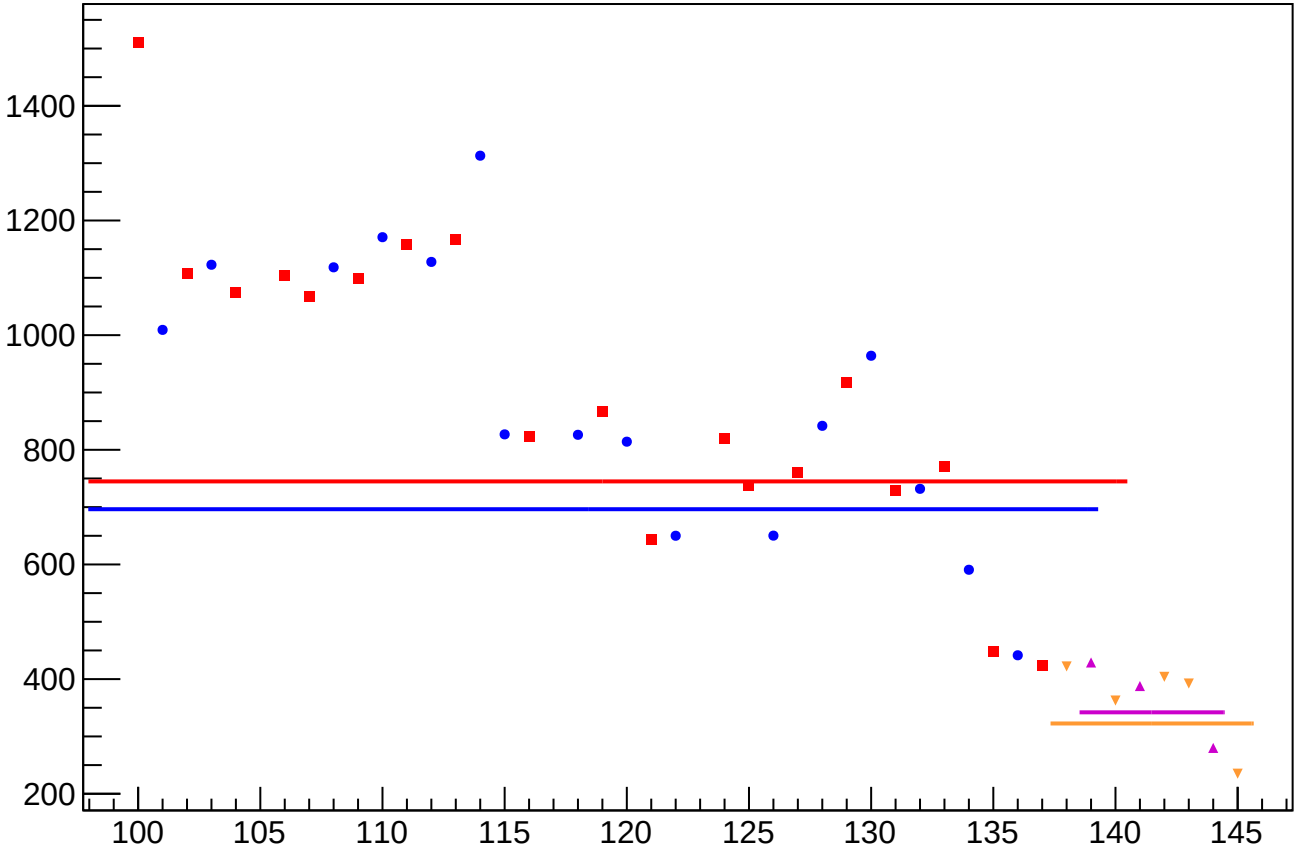
Right: 284.669+/-198.121 $\chi^2$/NDF: 34.9/34

In: 386.682+/-170.287 $\chi^2$/NDF:18.9/18

Out: -50.814+/-148.469 $\chi^2$/NDF:22.5/23

All: 138.128+/-111.907 $\chi^2$/NDF: 45.1/42

asym_sam_15_26_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 696.371+/-0.194 $\chi^2$/NDF: 1515478.0/15

Left Out: 322.598+/-0.123 $\chi^2$/NDF:416148.8/4

Right Out: 744.875+/-0.203 $\chi^2$/NDF: 1498361.7/18

Left In: 342.056+/-0.154 $\chi^2$/NDF:176546.4/2

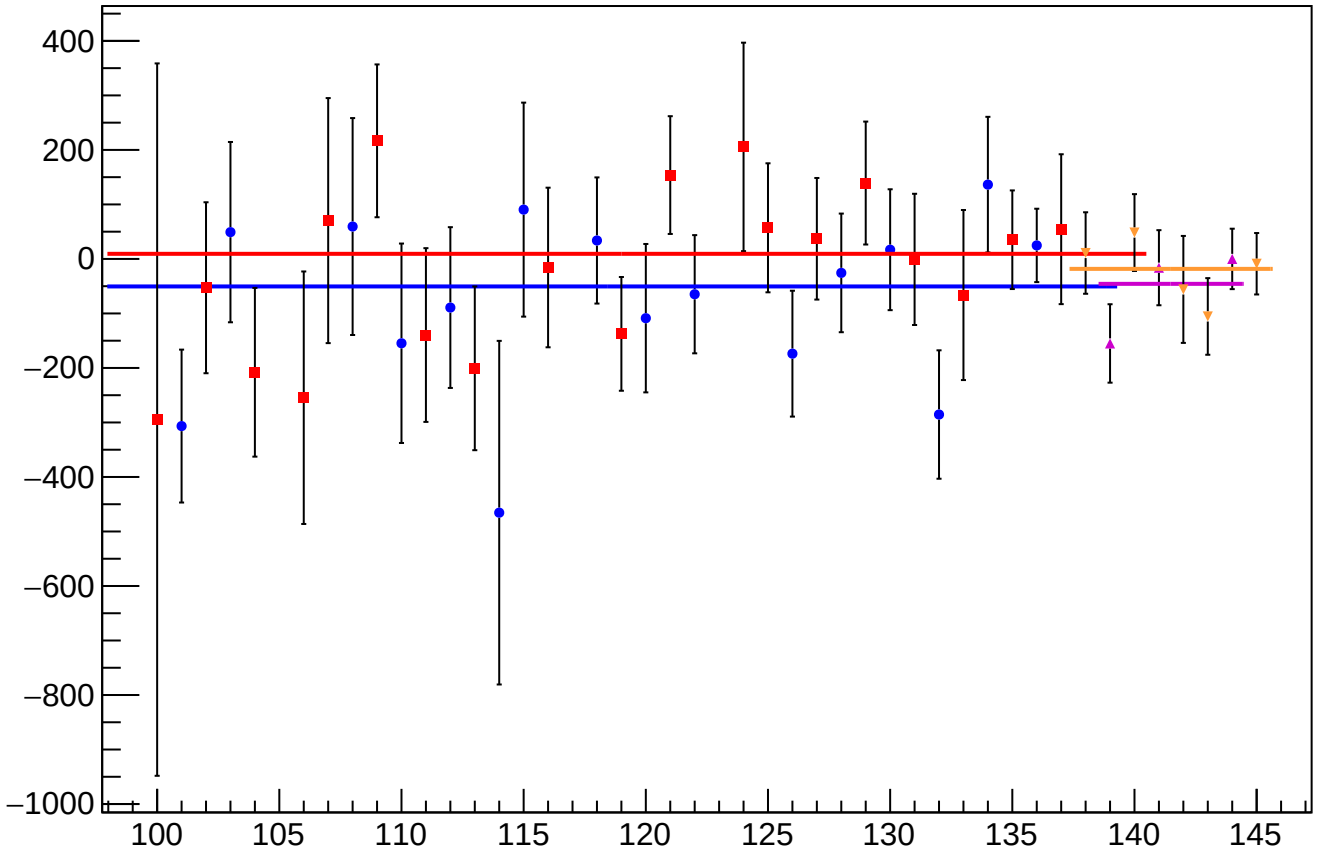
Left: 330.172+/-0.096 $\chi^2$/NDF: 602482.8/7

Right: 719.512+/-0.140 $\chi^2$/NDF: 3043745.4/34

In: 478.926+/-0.120 $\chi^2$/NDF:3744727.3/18

Out: 435.738+/-0.105 $\chi^2$/NDF:5087931.3/23

All: 454.390+/-0.079 $\chi^2$/NDF: 8905743.6/42




Right In: -50.466+/-31.061 $\chi^2$/NDF: 16.4/15

Left Out: -18.223+/-31.599 $\chi^2$/NDF:2.8/4

Right Out: 9.381+/-31.235 $\chi^2$/NDF: 15.6/18

Left In: -45.701+/-37.027 $\chi^2$/NDF:3.2/2

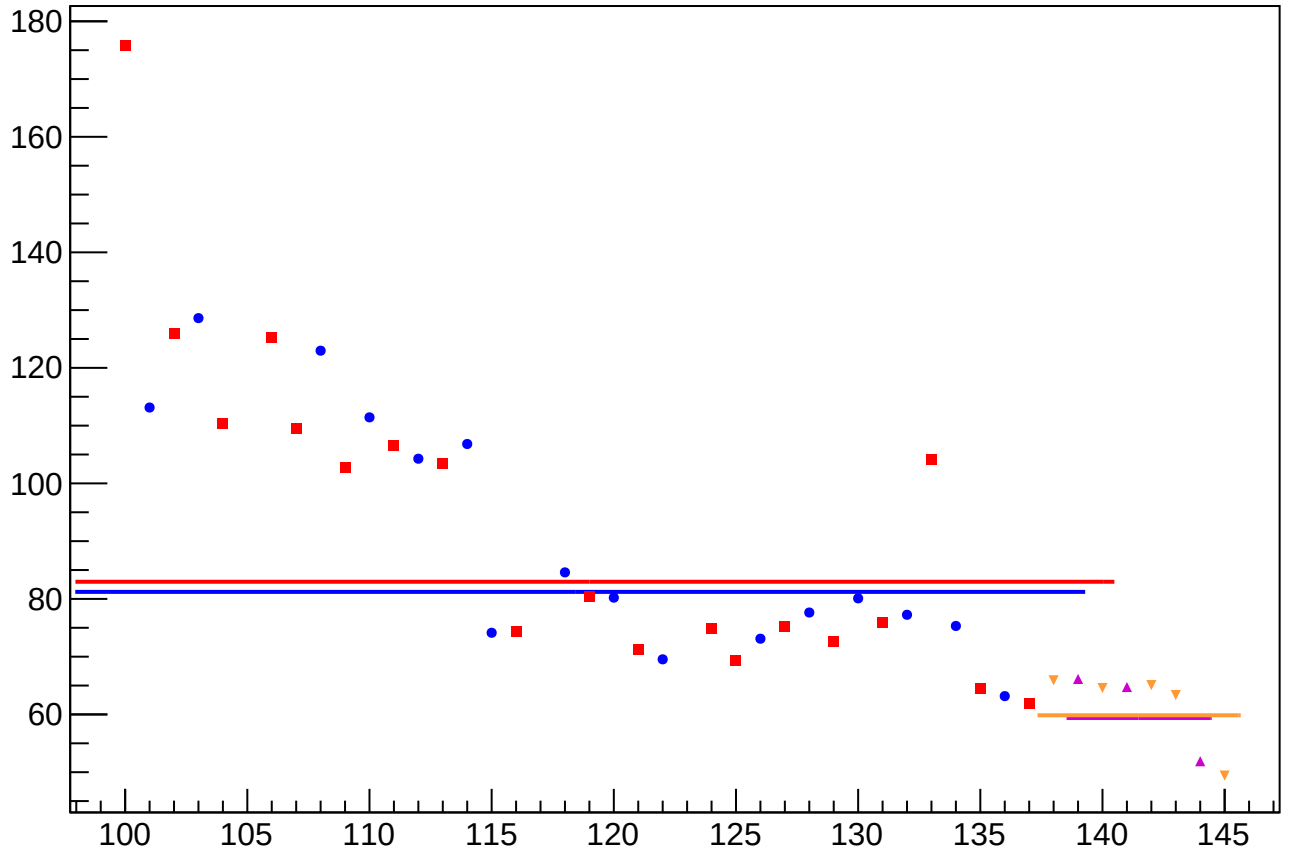
Left: -29.802+/-24.036 $\chi^2$/NDF: 6.3/7

Right: -20.709+/-22.025 $\chi^2$/NDF: 33.8/34

In: -48.498+/-23.797 $\chi^2$/NDF:19.6/18

Out: -4.261+/-22.214 $\chi^2$/NDF:18.7/23

All: -24.859+/-16.238 $\chi^2$/NDF: 40.2/42




Right In: 81.218+/-0.022 $\chi^2$/NDF: 662862.1/15

Left Out: 59.853+/-0.022 $\chi^2$/NDF:101333.8/4

Right Out: 82.971+/-0.022 $\chi^2$/NDF: 730375.6/18

Left In: 59.385+/-0.026 $\chi^2$/NDF:66223.8/2

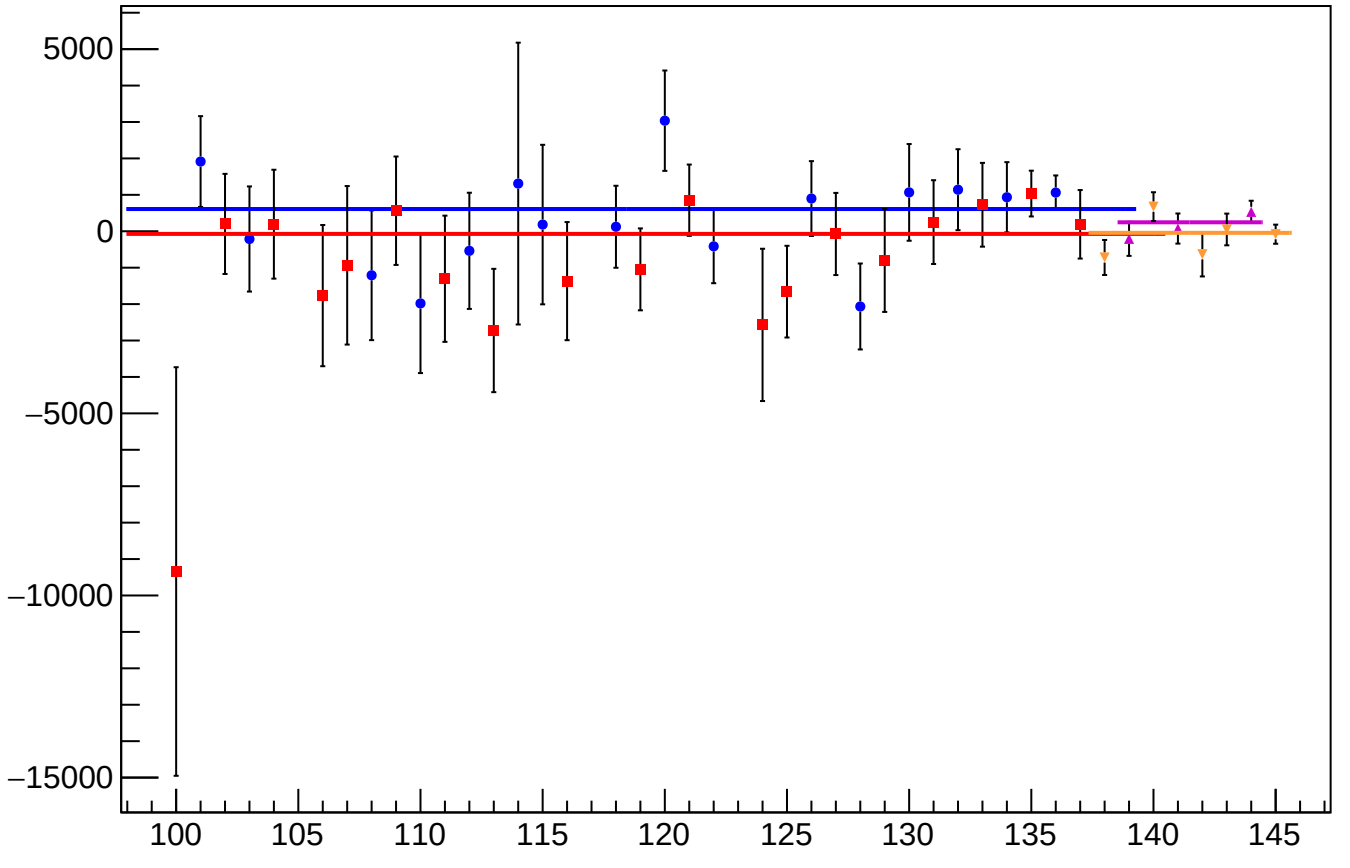
Left: 59.656+/-0.017 $\chi^2$/NDF: 167742.0/7

Right: 82.089+/-0.016 $\chi^2$/NDF: 1396405.1/34

In: 72.200+/-0.017 $\chi^2$/NDF:1137213.2/18

Out: 71.546+/-0.016 $\chi^2$/NDF:1373162.3/23

All: 71.850+/-0.011 $\chi^2$/NDF: 2511183.0/42




Right In: 610.382+/-273.981 $\chi^2$/NDF: 15.8/15

Left Out: -42.945+/-173.523 $\chi^2$/NDF:6.3/4

Right Out: -72.313+/-286.830 $\chi^2$/NDF: 16.2/18

Left In: 245.875+/-217.371 $\chi^2$/NDF:2.0/2

Left: 69.470+/-135.612 $\chi^2$/NDF: 9.3/7

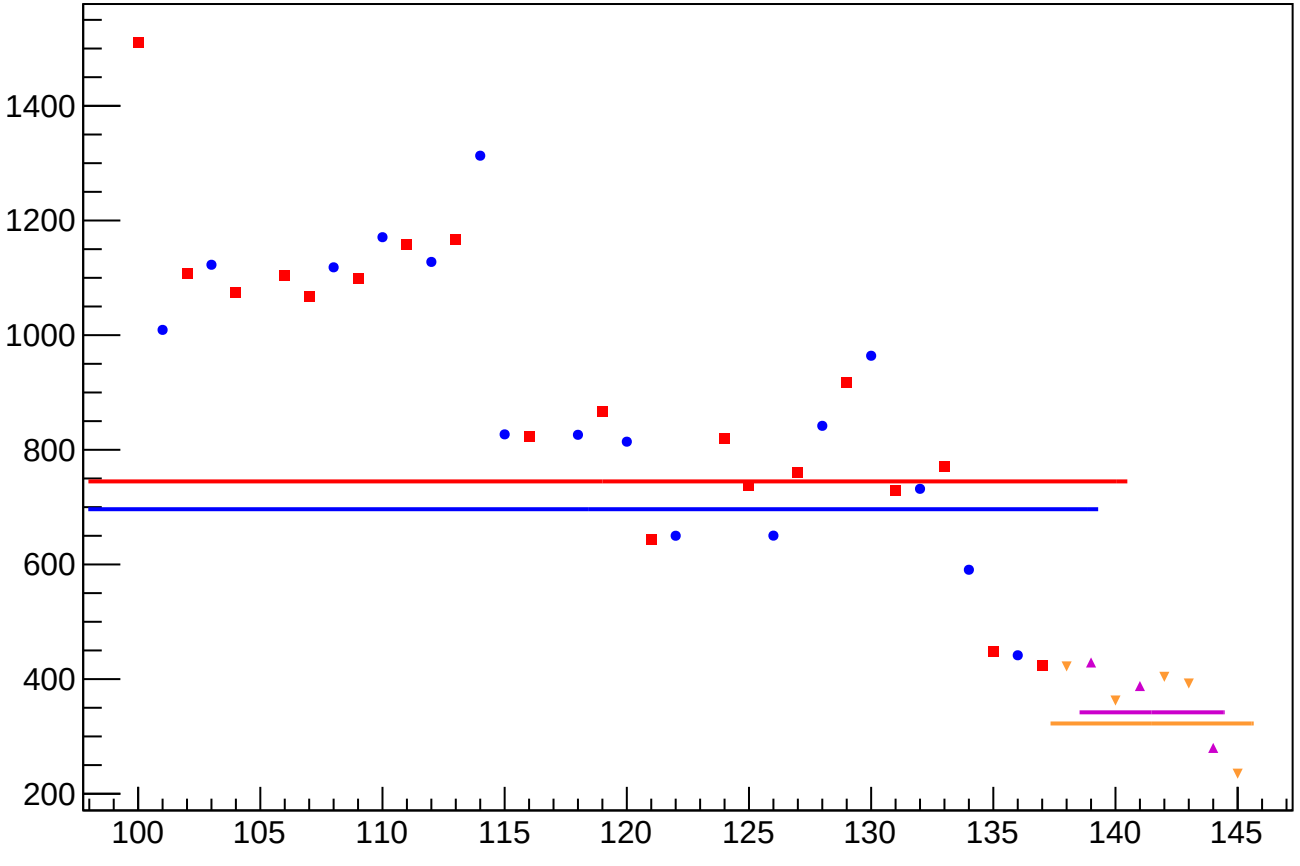
Right: 284.667+/-198.121 $\chi^2$/NDF: 34.9/34

In: 386.683+/-170.287 $\chi^2$/NDF:18.9/18

Out: -50.814+/-148.468 $\chi^2$/NDF:22.5/23

All: 138.128+/-111.907 $\chi^2$/NDF: 45.1/42

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: 322.598+/-0.123 $\chi^2$/NDF:416158.8/4

Right Out: 744.874+/-0.203 $\chi^2$/NDF: 1498349.6/18

Left In: 342.055+/-0.154 $\chi^2$/NDF:176548.2/2

Left: 330.171+/-0.096 $\chi^2$/NDF: 602494.8/7

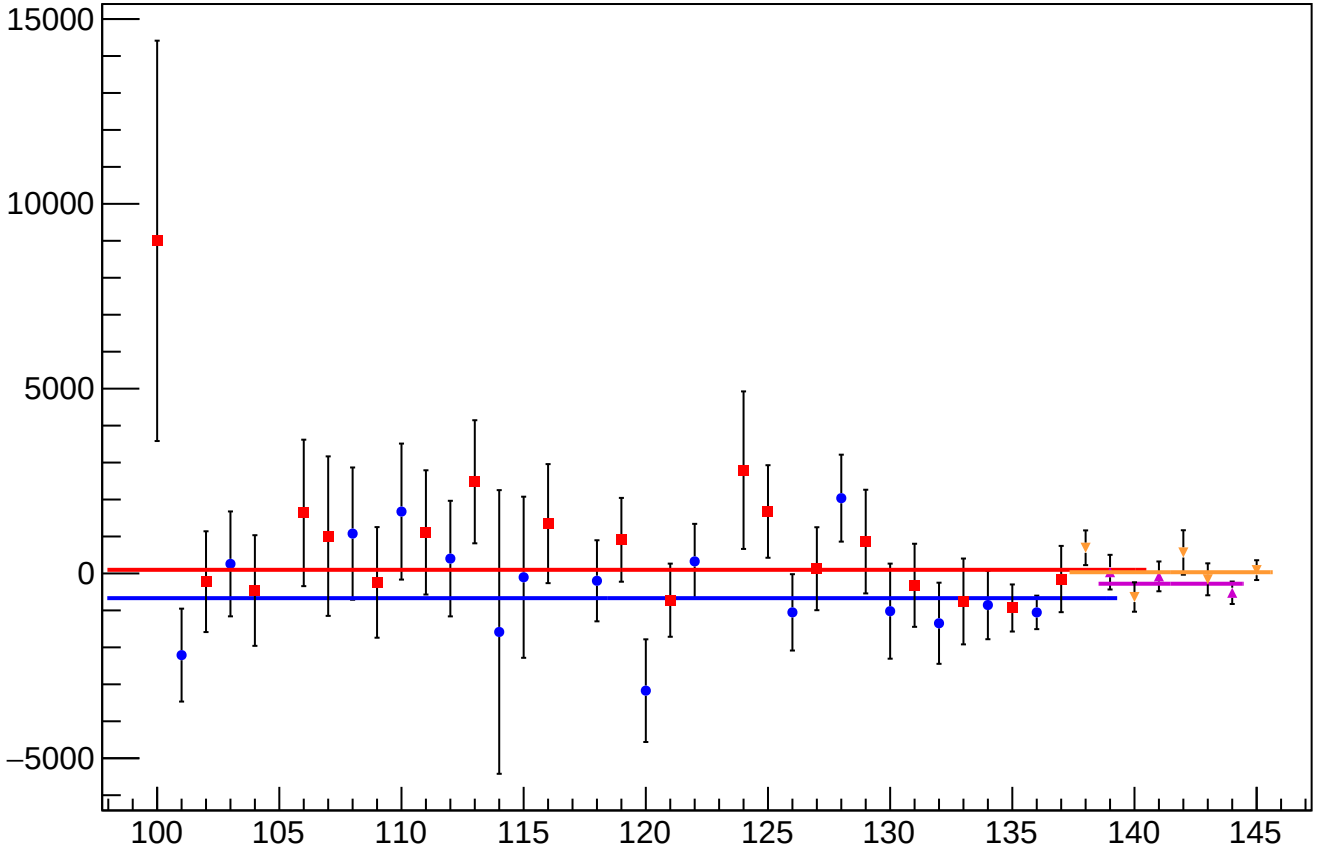
Right: 719.511+/-0.140 $\chi^2$/NDF: 3043716.8/34

In: 478.925+/-0.120 $\chi^2$/NDF:3744710.7/18

Out: 435.738+/-0.105 $\chi^2$/NDF:5087930.9/23

All: 454.389+/-0.079 $\chi^2$/NDF: 8905727.8/42

# asym_sam_15_26_dd_mean vs Slug, Sign Corrected




Right In: -668.503+/-268.452 $\chi^2$/NDF: 16.1/15

Left Out: 33.138+/-174.382 $\chi^2$/NDF:5.9/4

Right Out: 98.003+/-285.882 $\chi^2$/NDF: 14.8/18

Left In: -278.434+/-215.382 $\chi^2$/NDF:1.3/2

Left: -90.231+/-135.530 $\chi^2$/NDF: 8.5/7

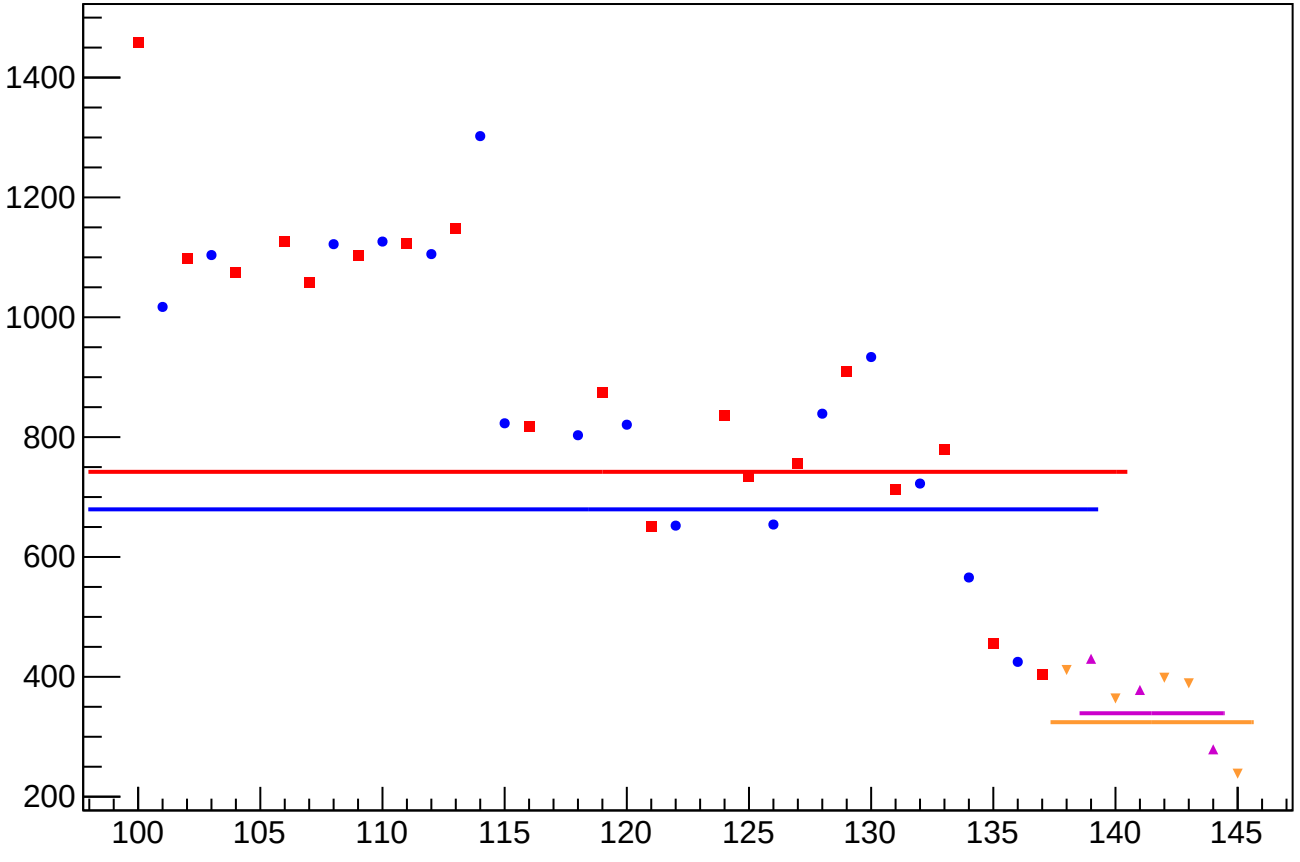
Right: -309.326+/-195.696 $\chi^2$/NDF: 34.8/34

In: -431.192+/-167.996 $\chi^2$/NDF:18.8/18

Out: 50.728+/-148.872 $\chi^2$/NDF:20.7/23

All: -161.252+/-111.419 $\chi^2$/NDF: 44.1/42

# asym_sam_15_26_dd_rms vs Slug, Sign Corrected




Right In: 679.469+/-0.190 $\chi^2$/NDF: 1600922.1/15

Left Out: 324.322+/-0.123 $\chi^2$/NDF:369471.9/4

Right Out: 742.081+/-0.202 $\chi^2$/NDF: 1504391.2/18

Left In: 339.241+/-0.152 $\chi^2$/NDF:172455.1/2

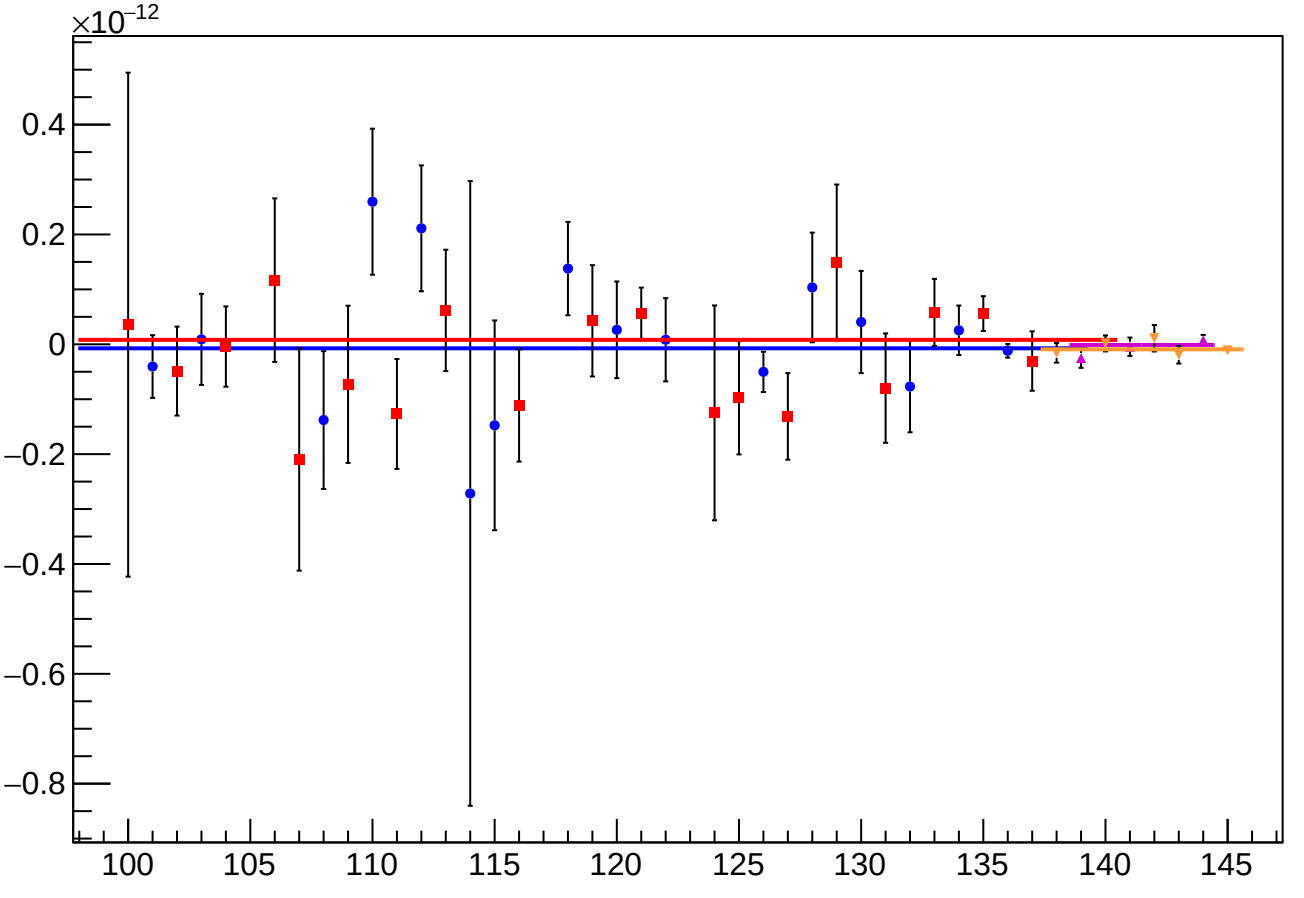
Left: 330.229+/-0.096 $\chi^2$/NDF: 547723.5/7

Right: 708.808+/-0.138 $\chi^2$/NDF: 3156293.3/34

In: 472.480+/-0.119 $\chi^2$/NDF:3727768.7/18

Out: 437.608+/-0.105 $\chi^2$/NDF:4986518.7/23

All: 452.947+/-0.079 $\chi^2$/NDF: 8762557.3/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:1.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.6/2

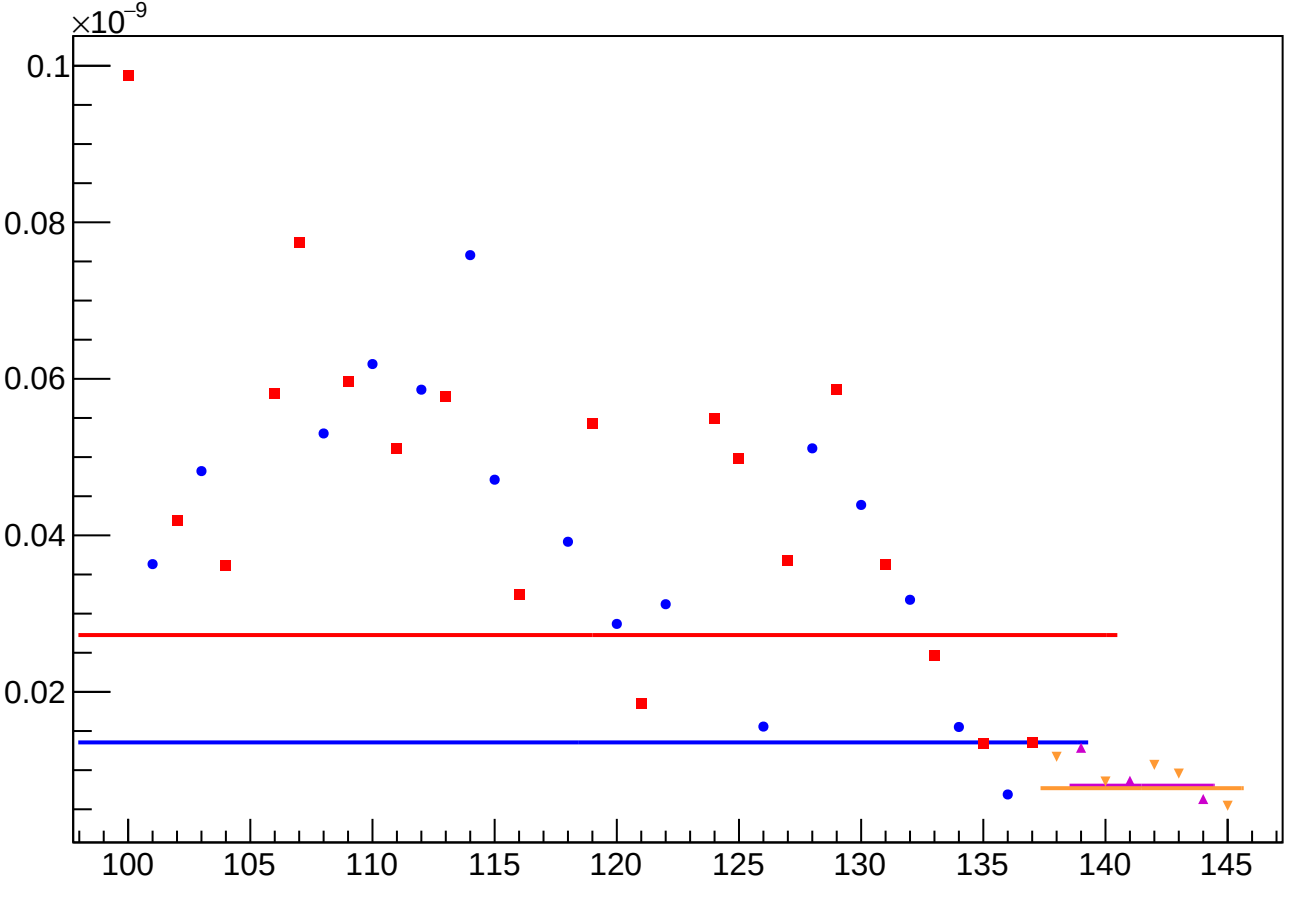
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.0/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:20.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 39.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3045220.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:296196.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1735739.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:210373.1/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 508704.0/7

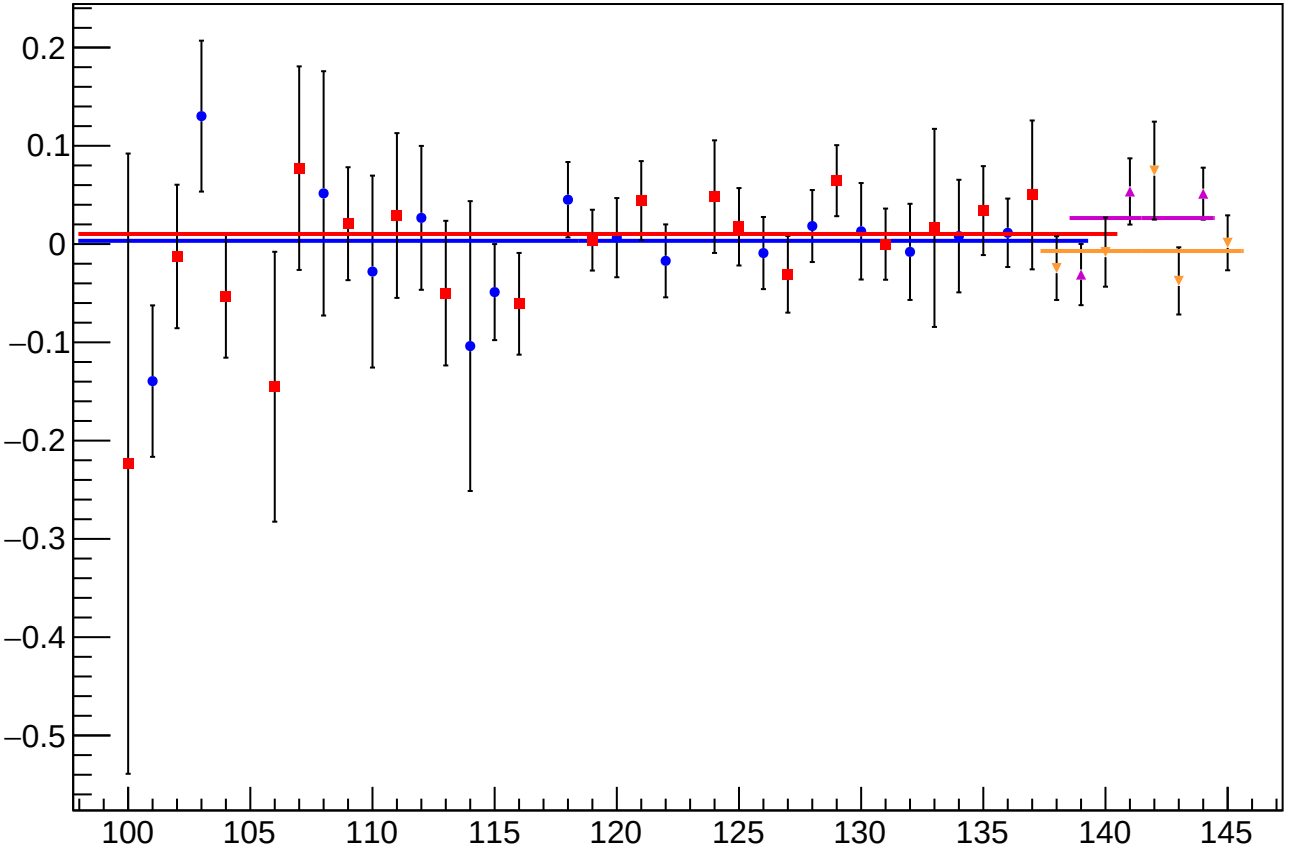
Right: 0.000+/-0.000 $\chi^2$/NDF: 5700569.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:3619224.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:4299395.2/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7918730.4/42

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.007+/-0.015 $\chi^2$/NDF:3.9/4

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: 0.026+/-0.017 $\chi^2$/NDF:4.9/2

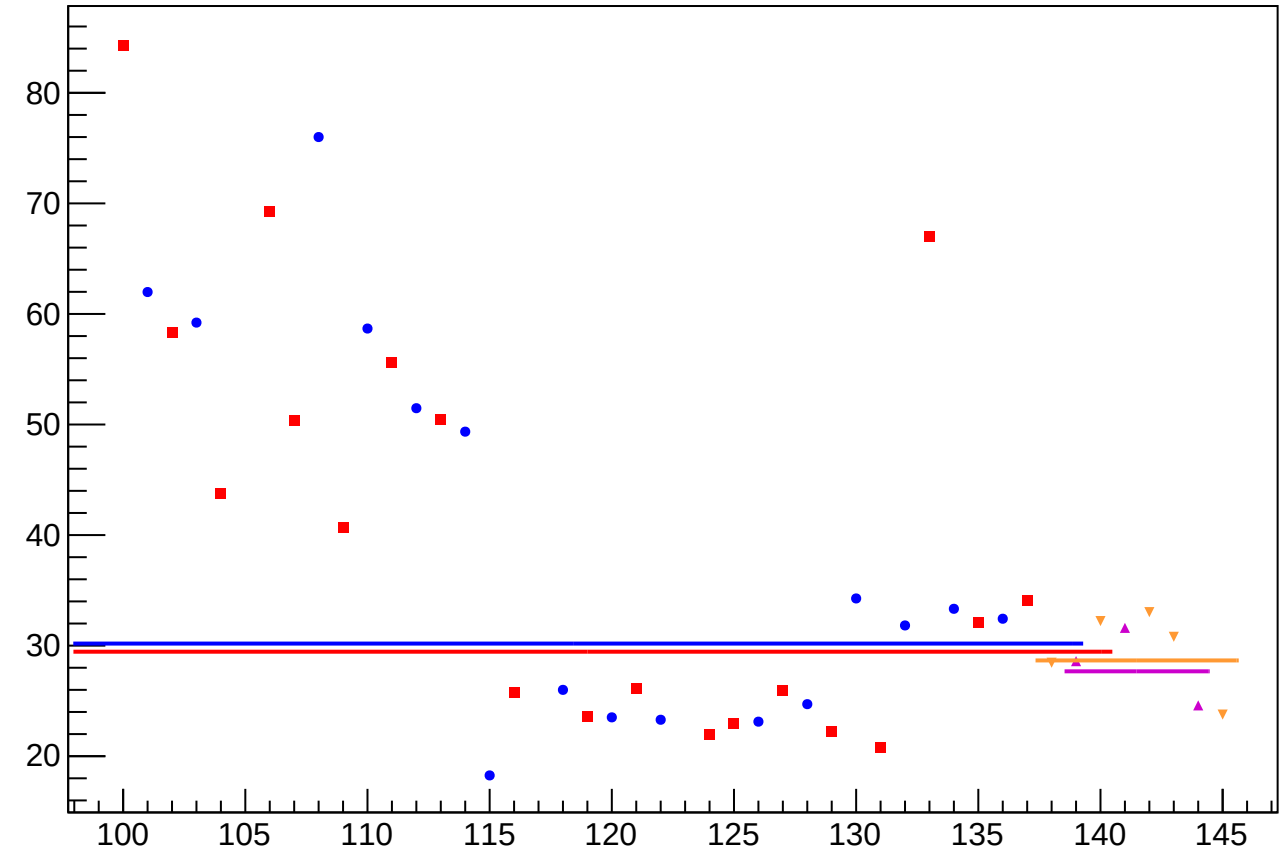
Left: 0.008+/-0.011 $\chi^2$/NDF: 10.9/7

Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: 0.011+/-0.010 $\chi^2$/NDF:16.3/18

Out: 0.004+/-0.009 $\chi^2$/NDF:15.9/23

All: 0.007+/-0.007 $\chi^2$/NDF: 32.4/42




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687373.5/15

Left Out: 28.662+/-0.011 $\chi^2$/NDF:105122.6/4

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848636.5/18

Left In: 27.676+/-0.012 $\chi^2$/NDF:56113.2/2

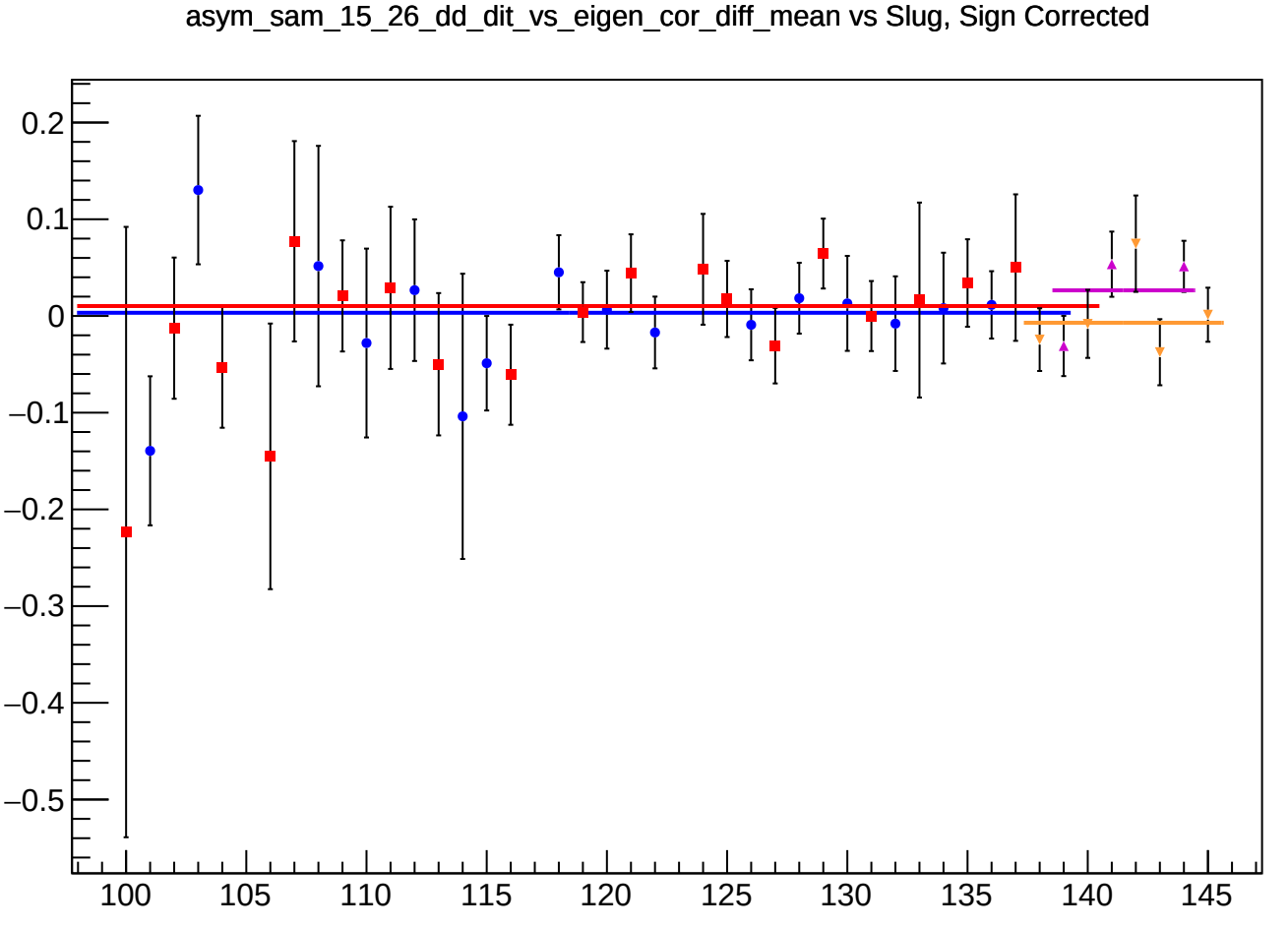
Left: 28.231+/-0.008 $\chi^2$/NDF: 164884.4/7

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539732.7/34

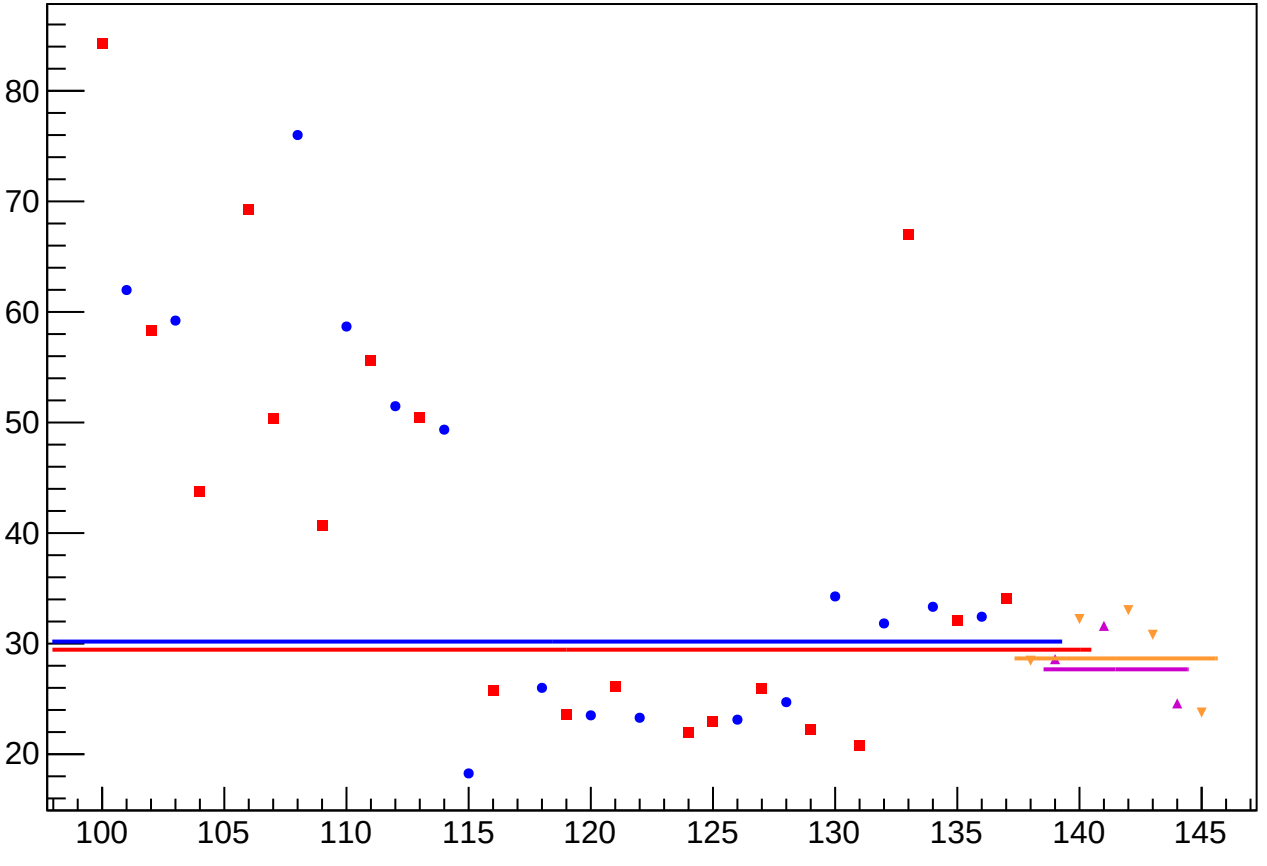
In: 29.345+/-0.007 $\chi^2$/NDF:1771493.4/18

Out: 29.155+/-0.007 $\chi^2$/NDF:1957110.7/23

All: 29.244+/-0.005 $\chi^2$/NDF: 3728989.1/42


asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
100
105
110
115
120
125
130
135
140
145
Right In: 0.003+/-0.012 χ²/NDF: 10.1/15
Left Out: -0.007+/-0.015 χ²/NDF:3.9/4
Right Out: 0.010+/-0.012 χ²/NDF: 11.2/18
Left In: 0.026+/-0.017 χ²/NDF:4.9/2
Left: 0.008+/-0.011 χ²/NDF: 10.9/7
Right: 0.007+/-0.009 χ²/NDF: 21.5/34
In: 0.011+/-0.010 χ²/NDF:16.3/18
Out: 0.004+/-0.009 χ²/NDF:15.9/23
All: 0.007+/-0.007 χ²/NDF: 32.4/42

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: 28.662+/-0.011 $\chi^2$/NDF:105122.6/4

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848636.5/18

Left In: 27.676+/-0.012 $\chi^2$/NDF:56113.2/2

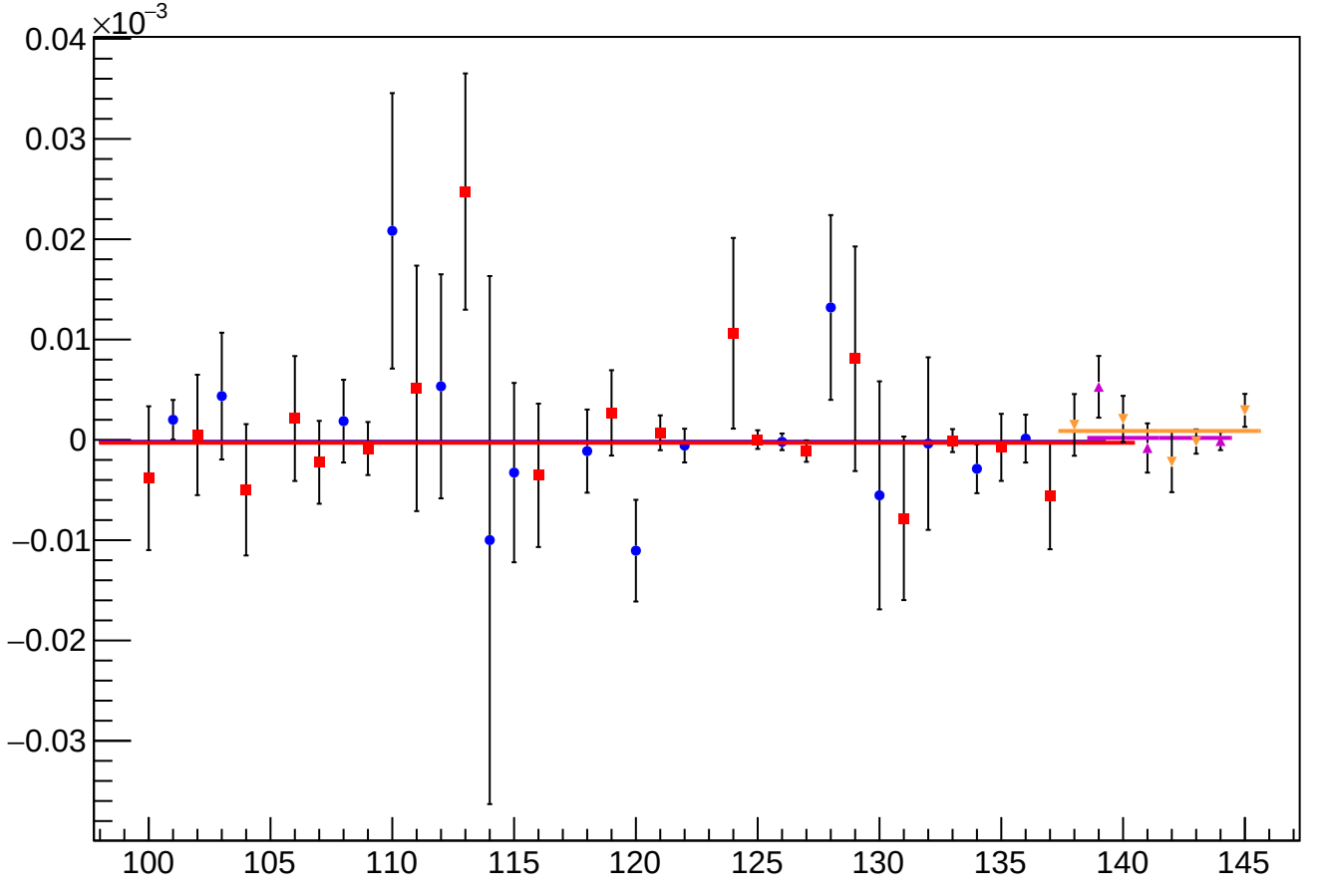
Left: 28.231+/-0.008 $\chi^2$/NDF: 164884.4/7

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539732.7/34

In: 29.345+/-0.007 $\chi^2$/NDF:1771493.4/18

Out: 29.155+/-0.007 $\chi^2$/NDF:1957110.7/23

All: 29.244+/-0.005 $\chi^2$/NDF: 3728989.1/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.7/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:3.0/2

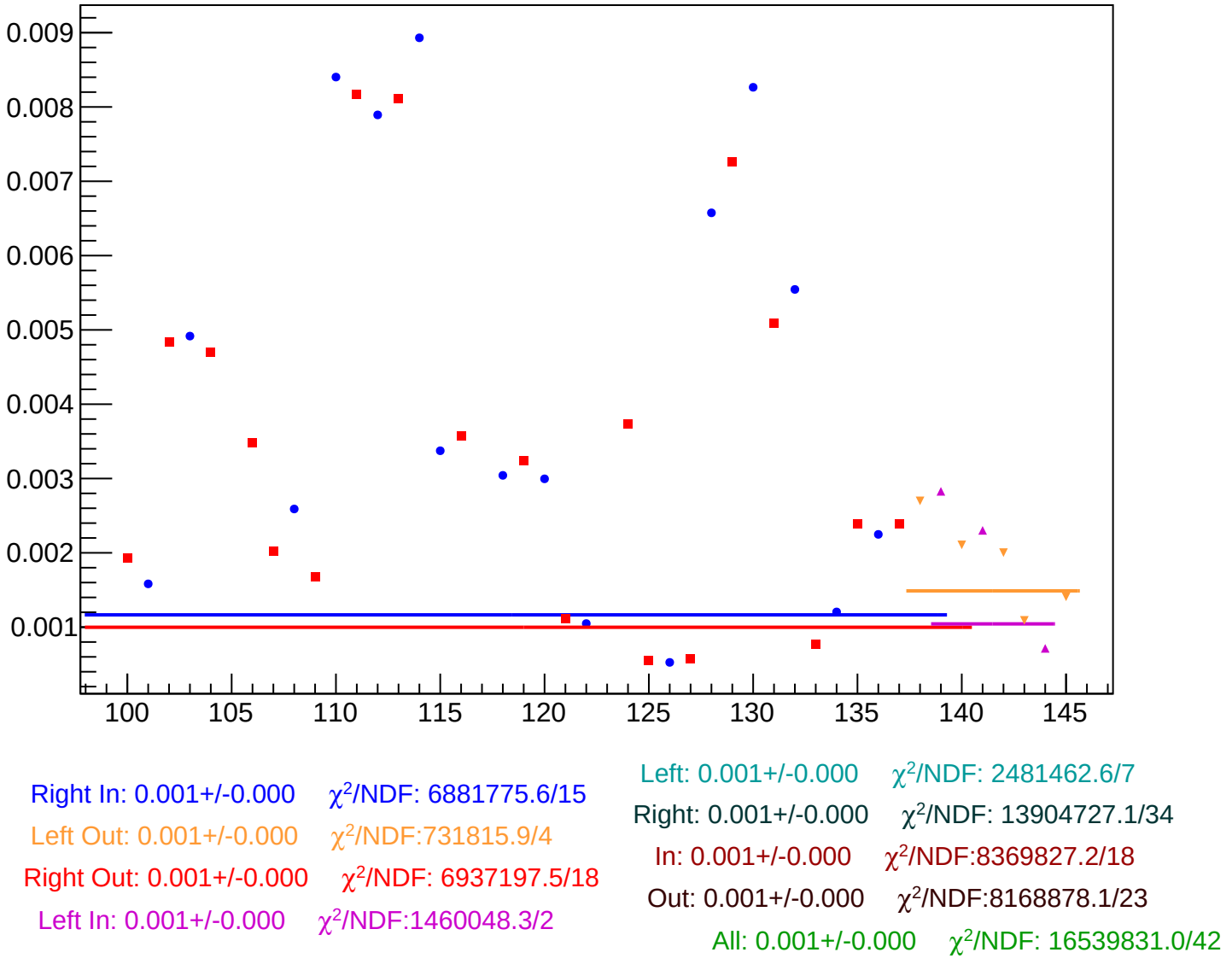
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.0/7

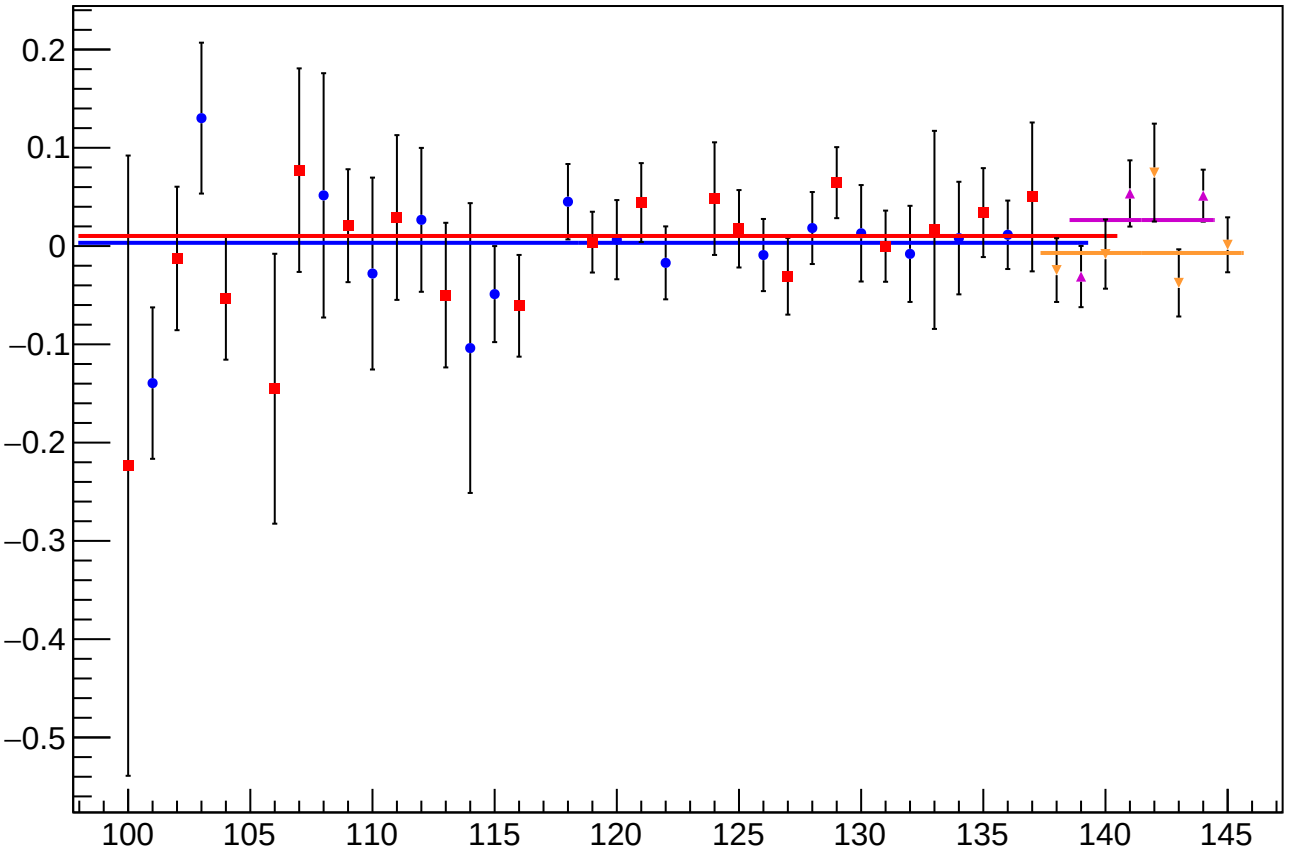
Right: -0.000+/-0.000 $\chi^2$/NDF: 24.6/34

In: -0.000+/-0.000 $\chi^2$/NDF:16.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:16.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 32.8/42


asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
100
105
110
115
120
125
130
135
140
145
Right In: 0.001+/-0.000 χ²/NDF: 6881775.6/15
Left Out: 0.001+/-0.000 χ²/NDF:731815.9/4
Right Out: 0.001+/-0.000 χ²/NDF: 6937197.5/18
Left In: 0.001+/-0.000 χ²/NDF:1460048.3/2
Left: 0.001+/-0.000 χ²/NDF: 2481462.6/7
Right: 0.001+/-0.000 χ²/NDF: 13904727.1/34
In: 0.001+/-0.000 χ²/NDF:8369827.2/18
Out: 0.001+/-0.000 χ²/NDF:8168878.1/23
All: 0.001+/-0.000 χ²/NDF: 16539831.0/42




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.007+/-0.015 $\chi^2$/NDF:3.9/4

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: 0.026+/-0.017 $\chi^2$/NDF:4.9/2

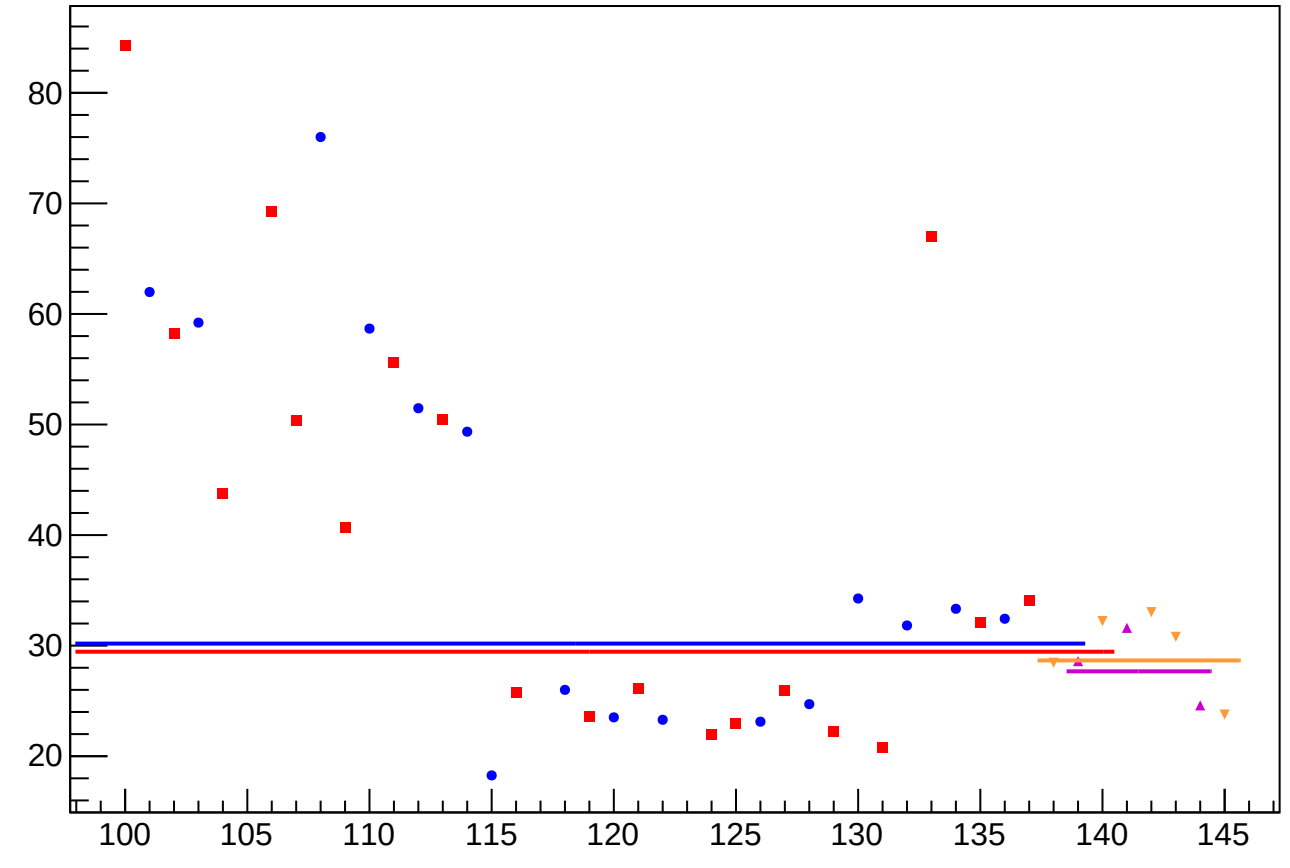
Left: 0.008+/-0.011 $\chi^2$/NDF: 10.9/7

Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: 0.011+/-0.010 $\chi^2$/NDF:16.3/18

Out: 0.004+/-0.009 $\chi^2$/NDF:15.9/23

All: 0.007+/-0.007 $\chi^2$/NDF: 32.4/42




Right In: 30.187+/-0.009 $\chi^2$/NDF: 1687188.2/15

Left Out: 28.662+/-0.011 $\chi^2$/NDF:105109.7/4

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848632.6/18

Left In: 27.677+/-0.012 $\chi^2$/NDF:56122.4/2

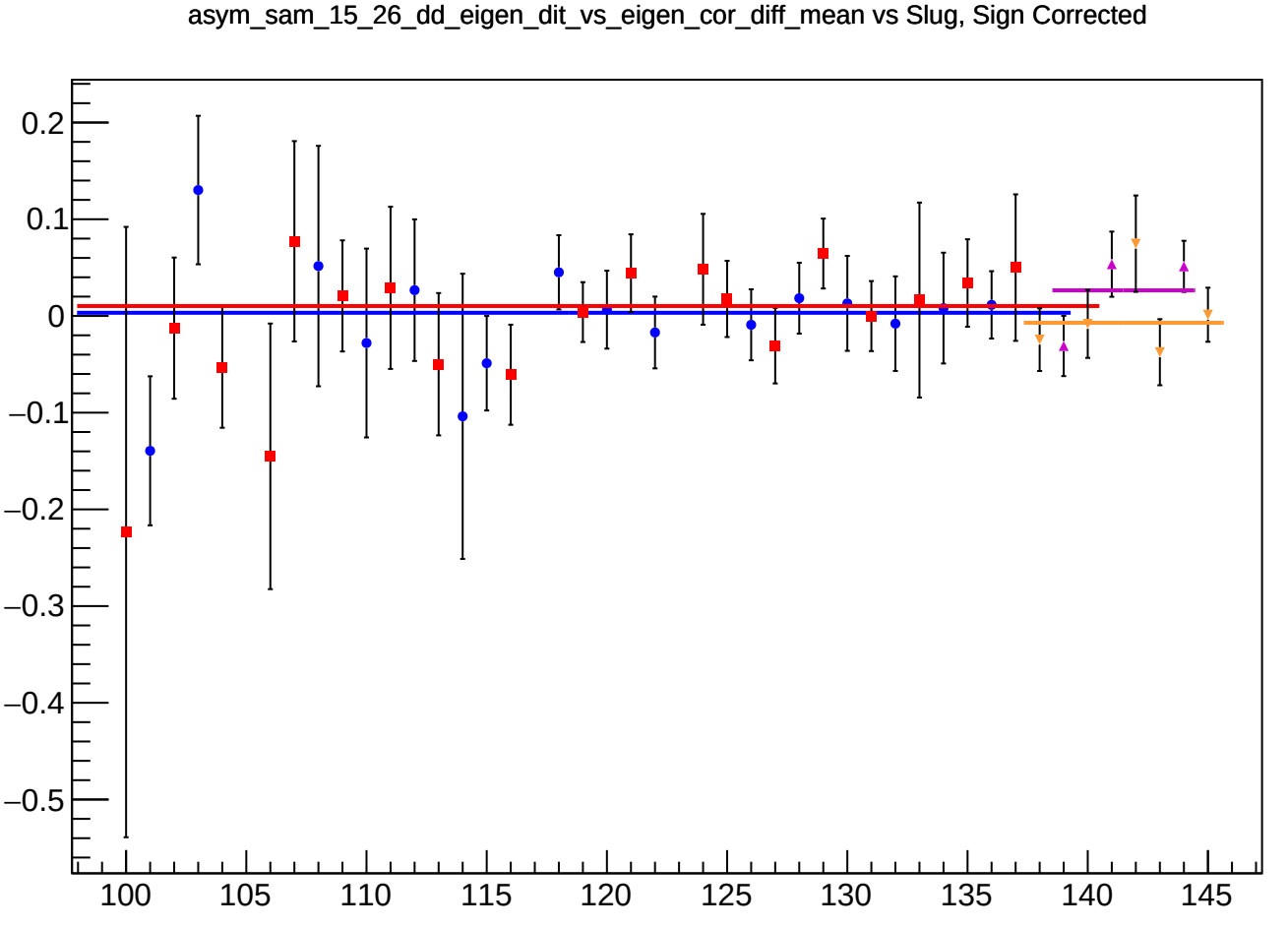
Left: 28.231+/-0.008 $\chi^2$/NDF: 164880.8/7

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539550.0/34

In: 29.346+/-0.007 $\chi^2$/NDF:1771307.7/18

Out: 29.155+/-0.007 $\chi^2$/NDF:1957084.9/23

All: 29.244+/-0.005 $\chi^2$/NDF: 3728779.2/42




Right In: 0.003+/-0.012 $\chi^2$/NDF: 10.1/15

Left Out: -0.007+/-0.015 $\chi^2$/NDF:3.9/4

Right Out: 0.010+/-0.012 $\chi^2$/NDF: 11.2/18

Left In: 0.026+/-0.017 $\chi^2$/NDF:4.9/2

Left: 0.008+/-0.011 $\chi^2$/NDF: 10.9/7

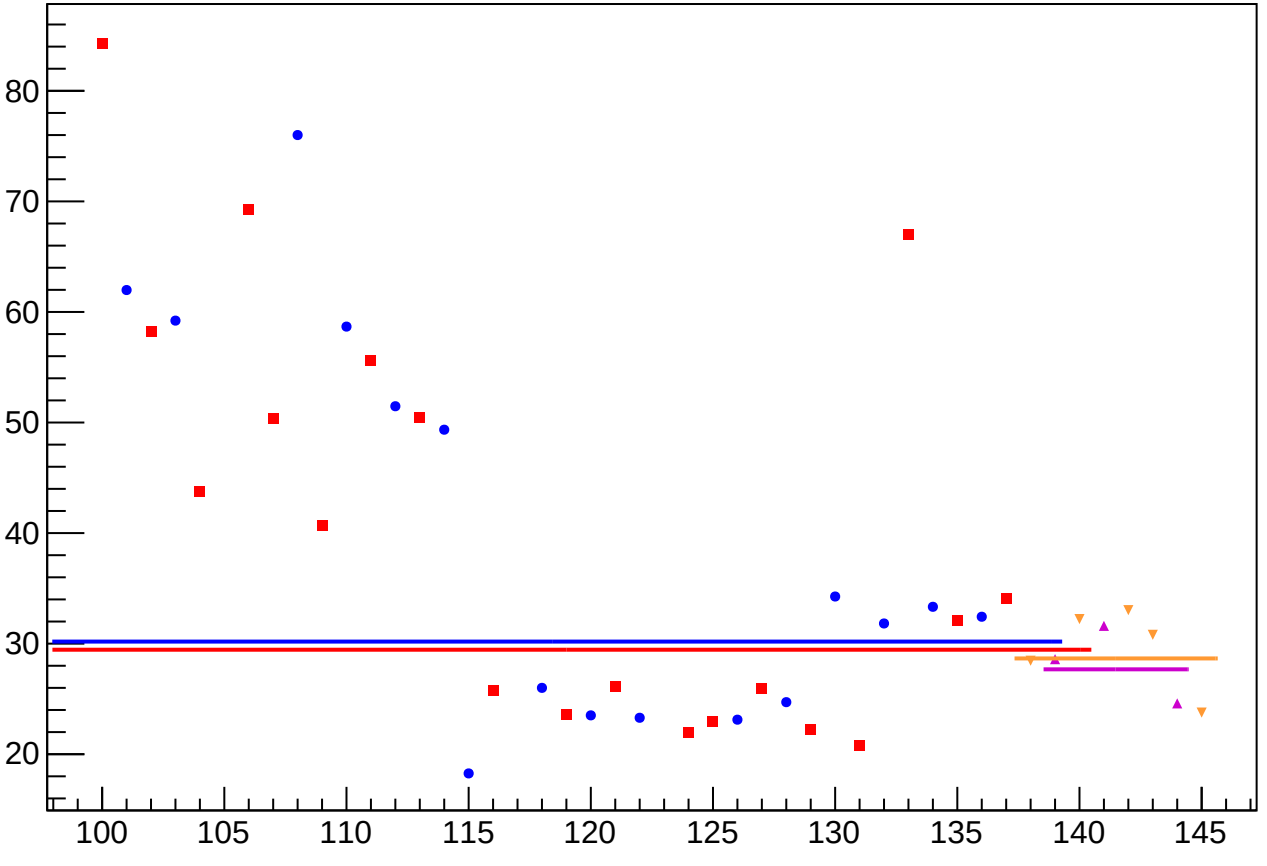
Right: 0.007+/-0.009 $\chi^2$/NDF: 21.5/34

In: 0.011+/-0.010 $\chi^2$/NDF:16.3/18

Out: 0.004+/-0.009 $\chi^2$/NDF:15.9/23

All: 0.007+/-0.007 $\chi^2$/NDF: 32.4/42

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: 28.662+/-0.011 $\chi^2$/NDF:105109.7/4

Right Out: 29.451+/-0.008 $\chi^2$/NDF: 1848632.6/18

Left In: 27.677+/-0.012 $\chi^2$/NDF:56122.4/2

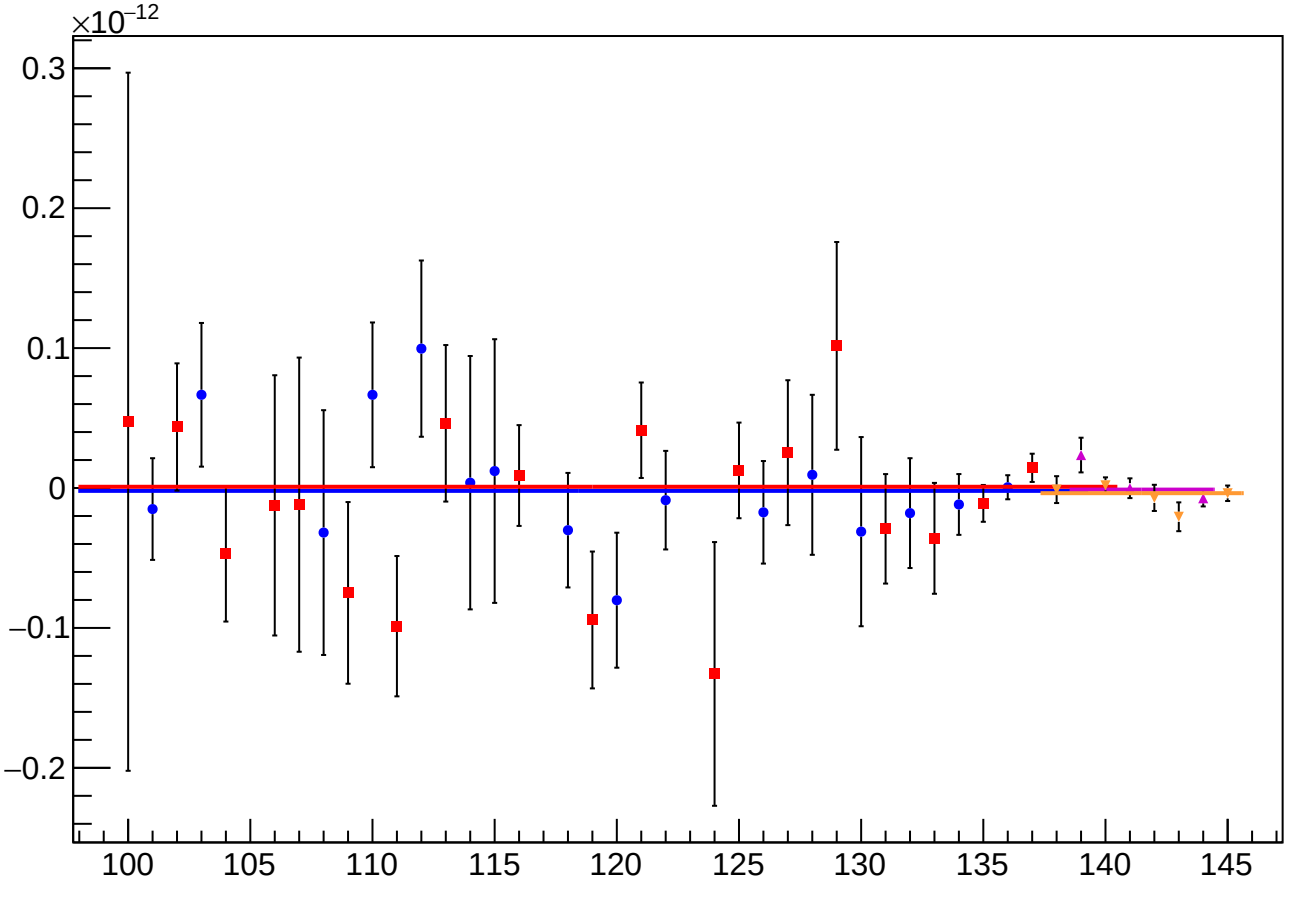
Left: 28.231+/-0.008 $\chi^2$/NDF: 164880.8/7

Right: 29.805+/-0.006 $\chi^2$/NDF: 3539550.0/34

In: 29.346+/-0.007 $\chi^2$/NDF:1771307.7/18

Out: 29.155+/-0.007 $\chi^2$/NDF:1957084.9/23

All: 29.244+/-0.005 $\chi^2$/NDF: 3728779.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.4/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.8/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.4/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:5.1/2

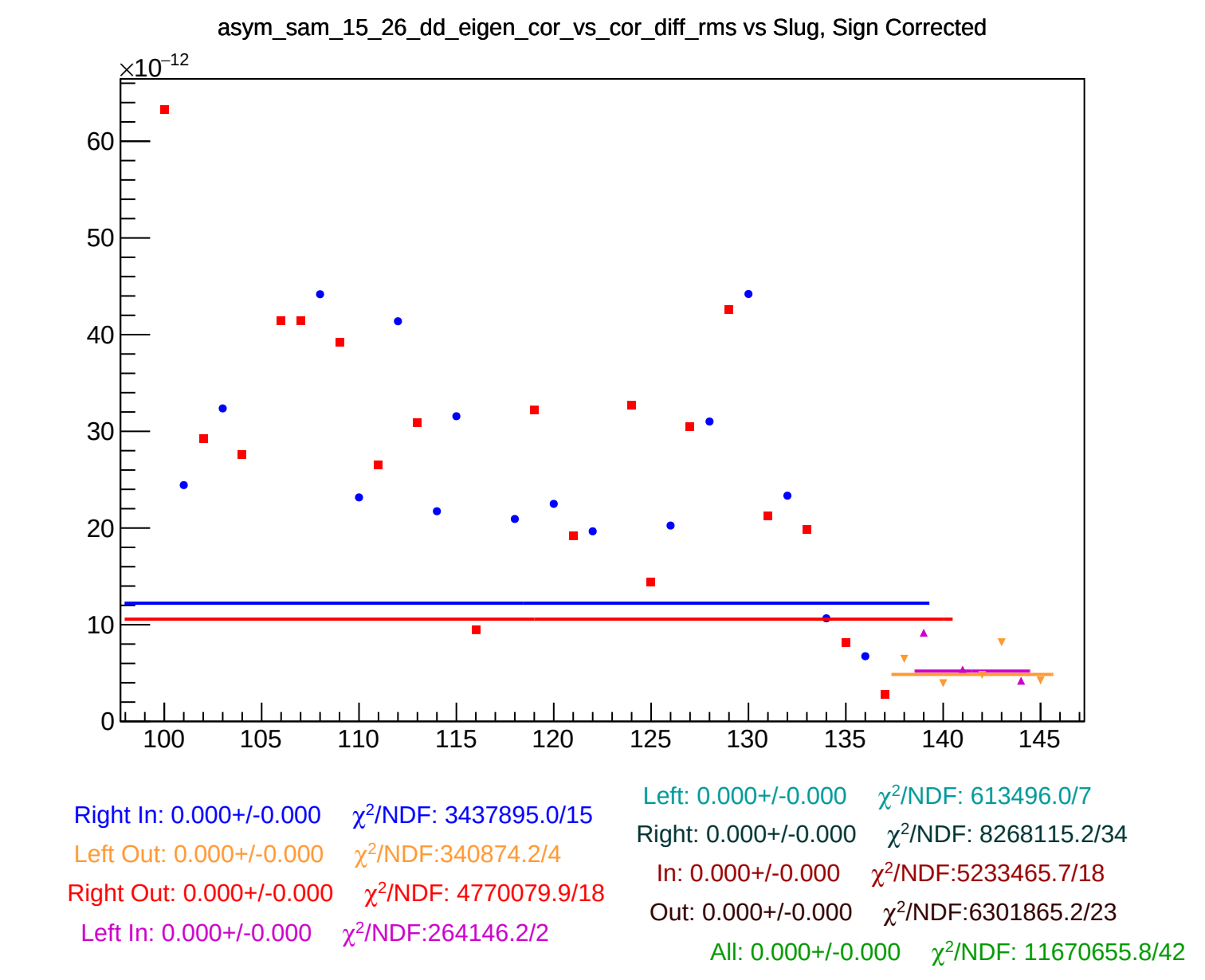
Left: -0.000+/-0.000 $\chi^2$/NDF: 9.2/7

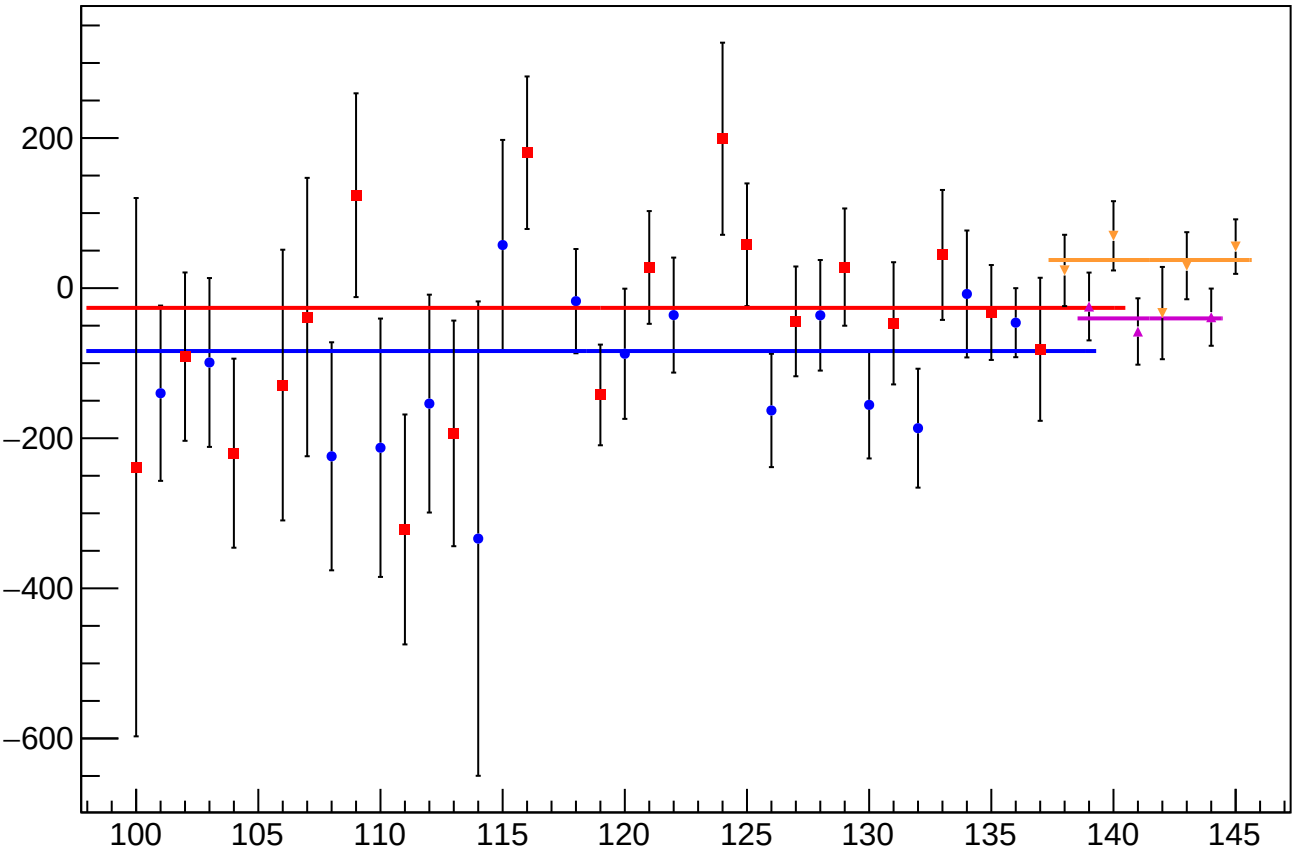
Right: -0.000+/-0.000 $\chi^2$/NDF: 31.9/34

In: -0.000+/-0.000 $\chi^2$/NDF:15.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:25.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 41.2/42


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
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 3437895.0/15
Left Out: 0.000+/-0.000 χ²/NDF:340874.2/4
Right Out: 0.000+/-0.000 χ²/NDF: 4770079.9/18
Left In: 0.000+/-0.000 χ²/NDF:264146.2/2
Left: 0.000+/-0.000 χ²/NDF: 613496.0/7
Right: 0.000+/-0.000 χ²/NDF: 8268115.2/34
In: 0.000+/-0.000 χ²/NDF:5233465.7/18
Out: 0.000+/-0.000 χ²/NDF:6301865.2/23
All: 0.000+/-0.000 χ²/NDF: 11670655.8/42




Right In: -83.808+/-21.434 $\chi^2$/NDF: 10.5/15

Left Out: 37.485+/-20.263 $\chi^2$/NDF:2.2/4

Right Out: -26.301+/-22.067 $\chi^2$/NDF: 23.0/18

Left In: -40.326+/-24.326 $\chi^2$/NDF:0.3/2

Left: 5.611+/-15.569 $\chi^2$/NDF: 8.5/7

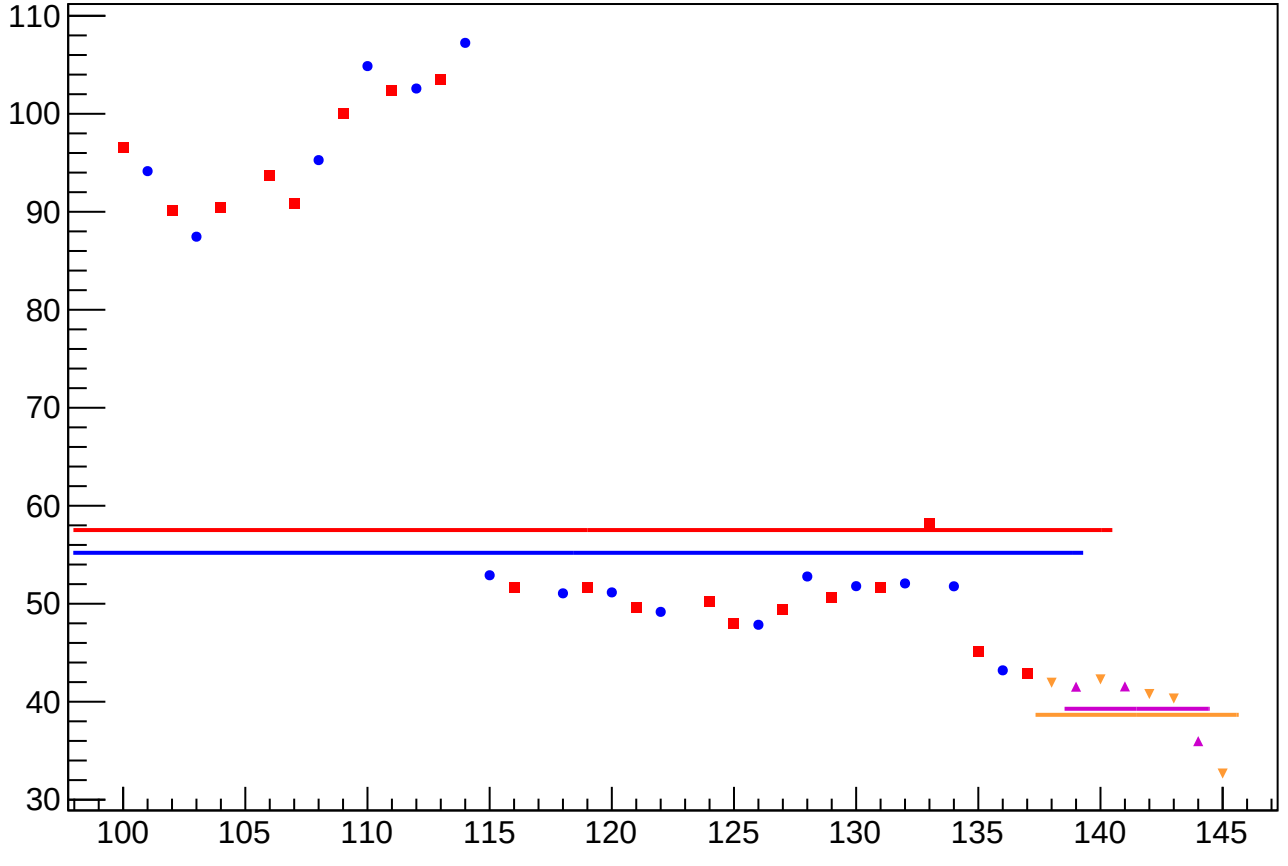
Right: -55.890+/-15.375 $\chi^2$/NDF: 37.0/34

In: -64.803+/-16.082 $\chi^2$/NDF:12.6/18

Out: 8.306+/-14.925 $\chi^2$/NDF:29.7/23

All: -25.525+/-10.940 $\chi^2$/NDF: 53.4/42

# reg_asym_sam_37_26_dd_rms vs Slug, Sign Corrected




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.1/15

Left Out: 38.664+/-0.014 $\chi^2$/NDF:81367.3/4

Right Out: 57.519+/-0.016 $\chi^2$/NDF: 1281793.1/18

Left In: 39.280+/-0.017 $\chi^2$/NDF:25353.3/2

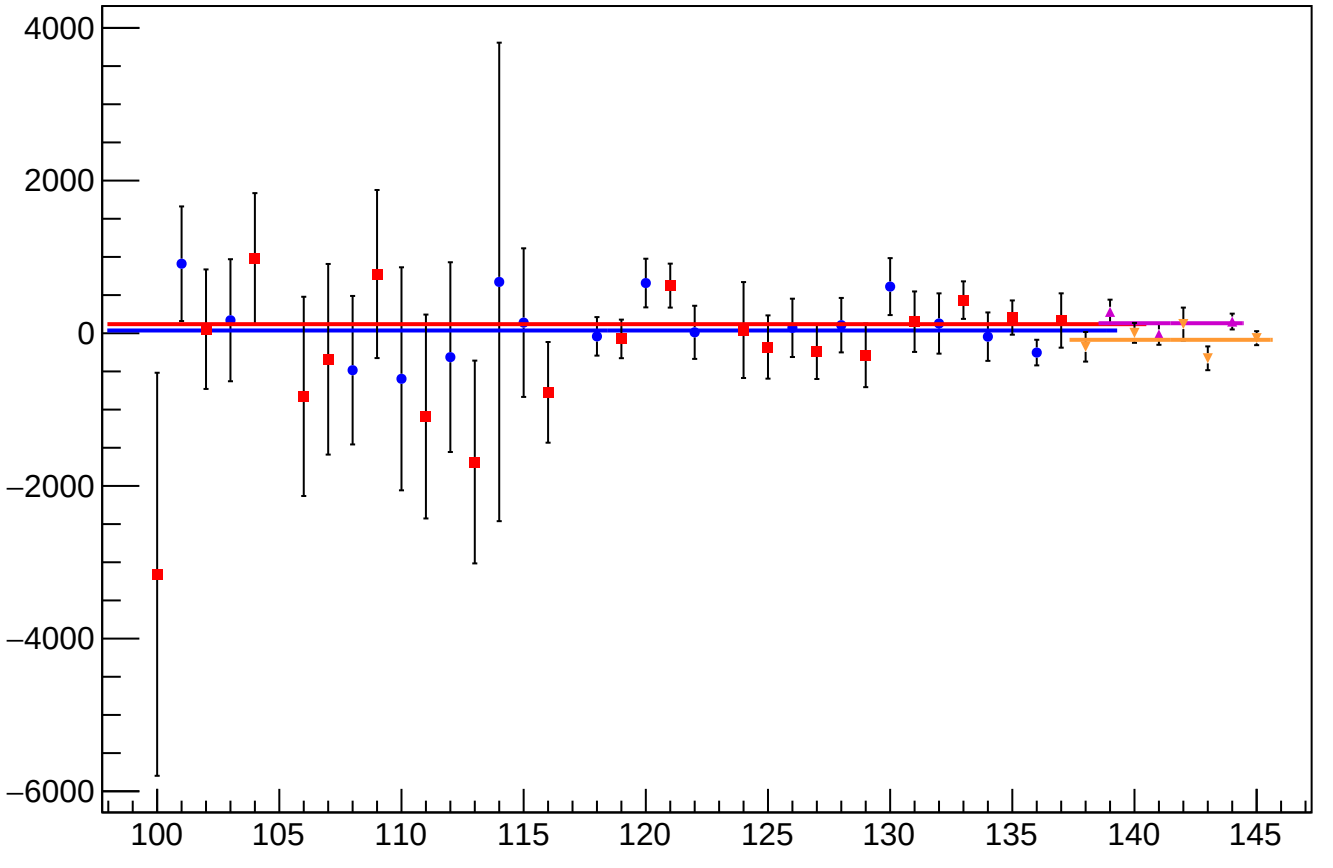
Left: 38.916+/-0.011 $\chi^2$/NDF: 107478.6/7

Right: 56.325+/-0.011 $\chi^2$/NDF: 2445763.7/34

In: 48.241+/-0.011 $\chi^2$/NDF:1660008.0/18

Out: 47.289+/-0.011 $\chi^2$/NDF:2155407.3/23

All: 47.729+/-0.008 $\chi^2$/NDF: 3819176.0/42




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -85.884+/-61.136 $\chi^2$/NDF:4.1/4

Right Out: 119.166+/-95.833 $\chi^2$/NDF: 16.0/18

Left In: 131.484+/-73.270 $\chi^2$/NDF:2.1/2

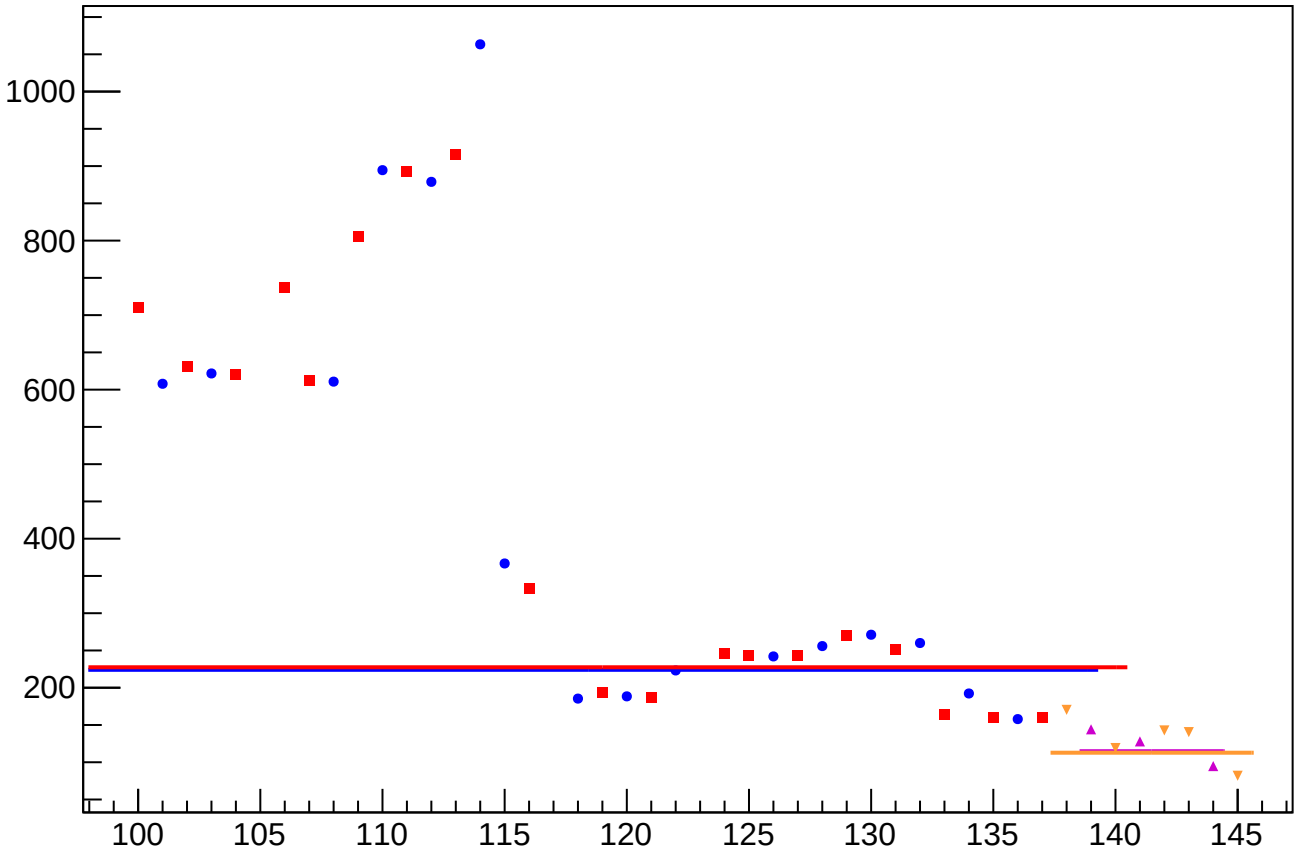
Left: 3.335+/-46.942 $\chi^2$/NDF: 11.4/7

Right: 76.754+/-66.947 $\chi^2$/NDF: 27.8/34

In: 95.311+/-57.687 $\chi^2$/NDF:14.1/18

Out: -26.573+/-51.541 $\chi^2$/NDF:23.4/23

All: 27.534+/-38.435 $\chi^2$/NDF: 40.0/42




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968054.7/15

Left Out: 112.803+/-0.043 $\chi^2$/NDF:510019.2/4

Right Out: 227.451+/-0.068 $\chi^2$/NDF: 3640634.3/18

Left In: 114.819+/-0.052 $\chi^2$/NDF:160712.0/2

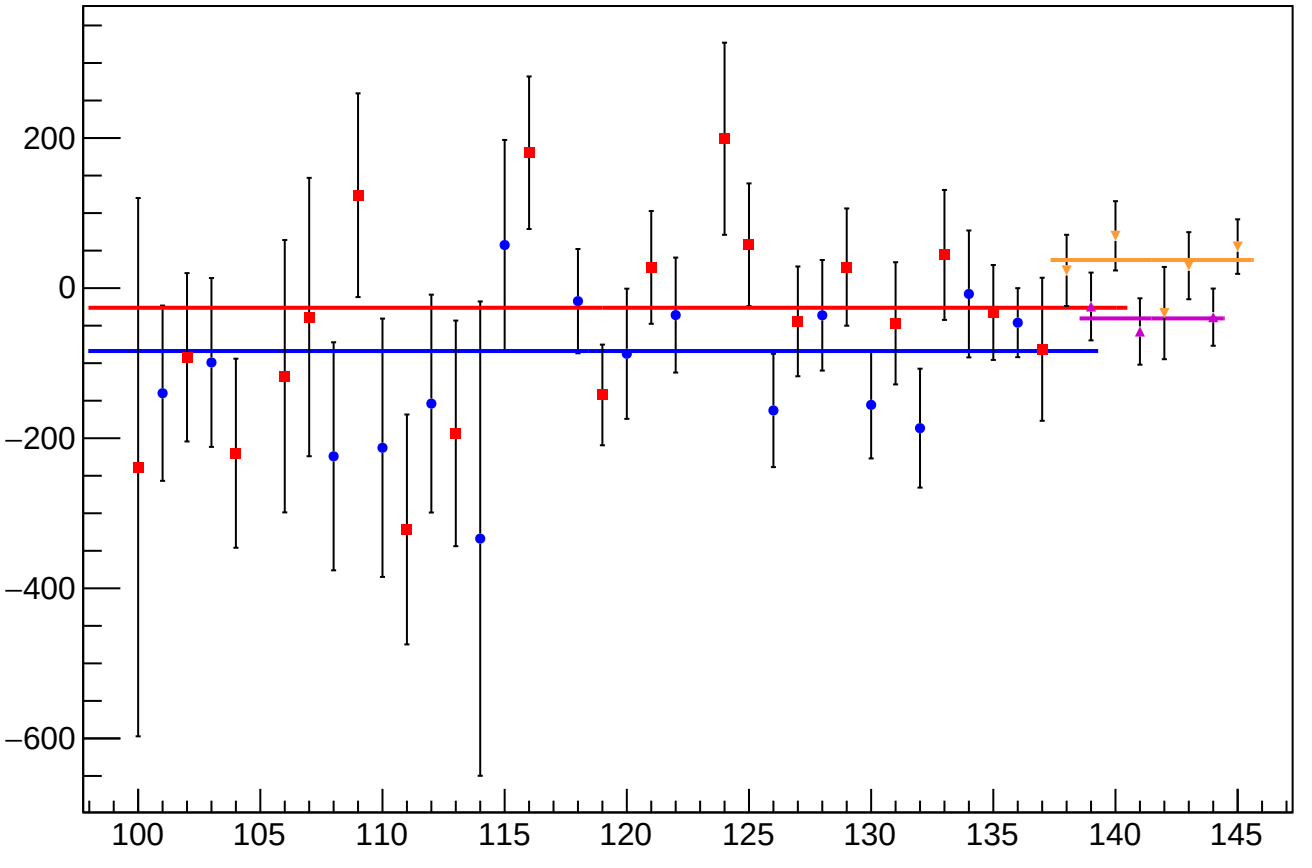
Left: 113.630+/-0.033 $\chi^2$/NDF: 671623.8/7

Right: 225.705+/-0.047 $\chi^2$/NDF: 6609984.7/34

In: 156.339+/-0.041 $\chi^2$/NDF:4818209.3/18

Out: 145.965+/-0.036 $\chi^2$/NDF:6185088.4/23

All: 150.570+/-0.027 $\chi^2$/NDF: 11039263.2/42




Right In: -83.805+/-21.434 $\chi^2$/NDF: 10.5/15

Left Out: 37.486+/-20.263 $\chi^2$/NDF:2.2/4

Right Out: -26.142+/-22.069 $\chi^2$/NDF: 22.9/18

Left In: -40.332+/-24.326 $\chi^2$/NDF:0.3/2

Left: 5.609+/-15.569 $\chi^2$/NDF: 8.5/7

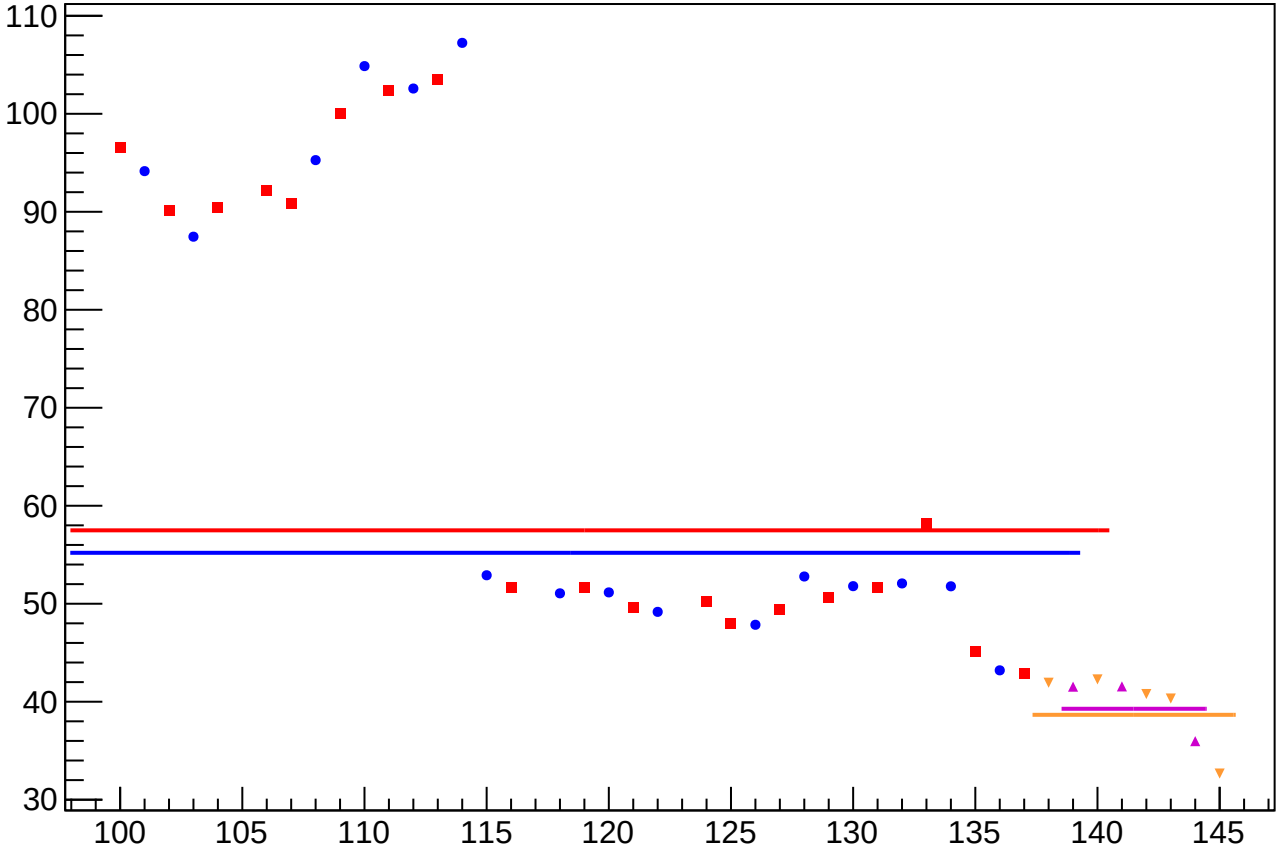
Right: -55.815+/-15.376 $\chi^2$/NDF: 37.0/34

In: -64.804+/-16.082 $\chi^2$/NDF:12.6/18

Out: 8.382+/-14.926 $\chi^2$/NDF:29.6/23

All: -25.486+/-10.940 $\chi^2$/NDF: 53.3/42

# cor_asym_sam_37_26_dd_rms vs Slug, Sign Corrected




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.3/15

Left Out: 38.664+/-0.014 $\chi^2$/NDF:81367.3/4

Right Out: 57.490+/-0.016 $\chi^2$/NDF: 1274387.3/18

Left In: 39.280+/-0.017 $\chi^2$/NDF:25353.3/2

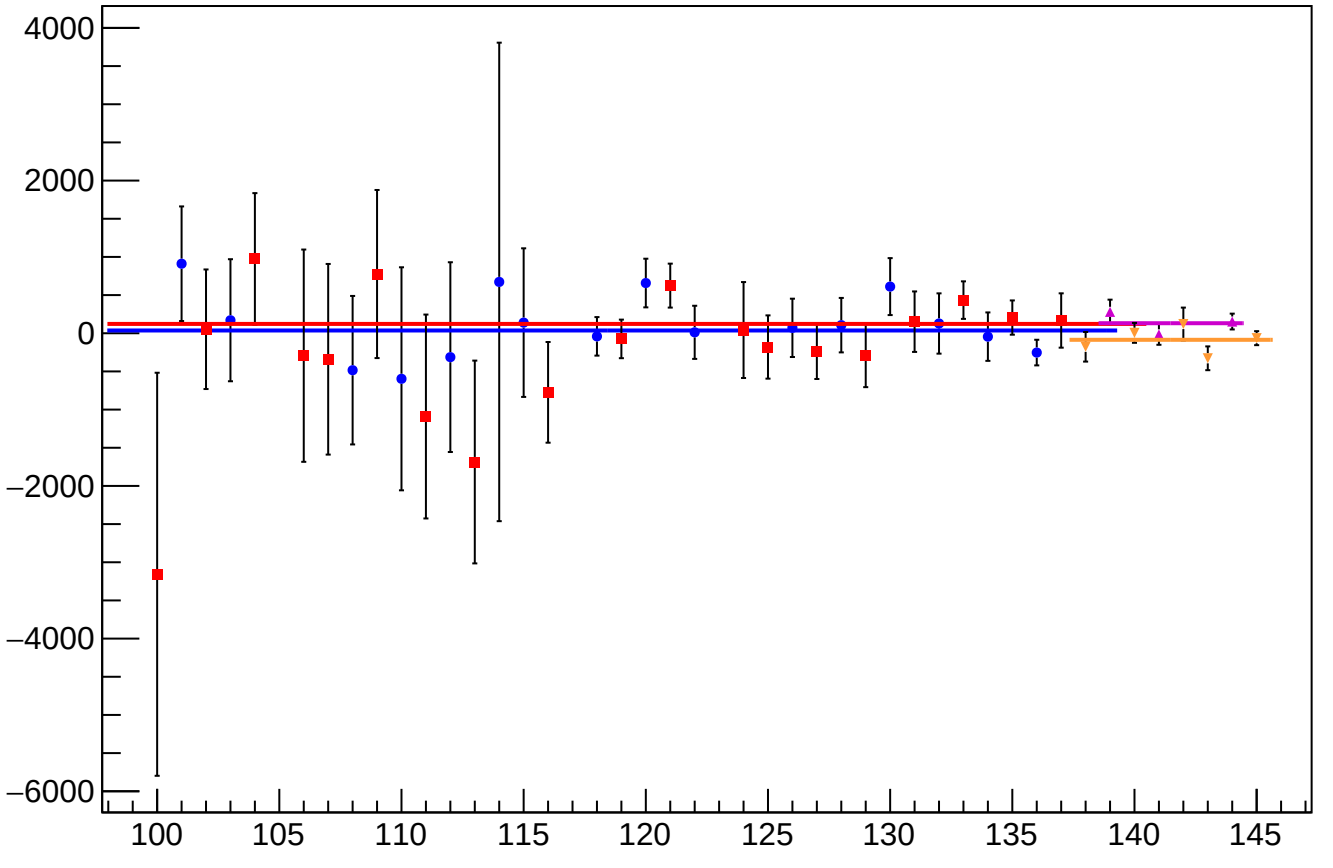
Left: 38.916+/-0.011 $\chi^2$/NDF: 107478.6/7

Right: 56.311+/-0.011 $\chi^2$/NDF: 2438075.6/34

In: 48.241+/-0.011 $\chi^2$/NDF:1660008.3/18

Out: 47.275+/-0.011 $\chi^2$/NDF:2145495.2/23

All: 47.722+/-0.008 $\chi^2$/NDF: 3809376.2/42




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -85.884+/-61.136 $\chi^2$/NDF:4.1/4

Right Out: 122.289+/-95.865 $\chi^2$/NDF: 15.6/18

Left In: 131.482+/-73.270 $\chi^2$/NDF:2.1/2

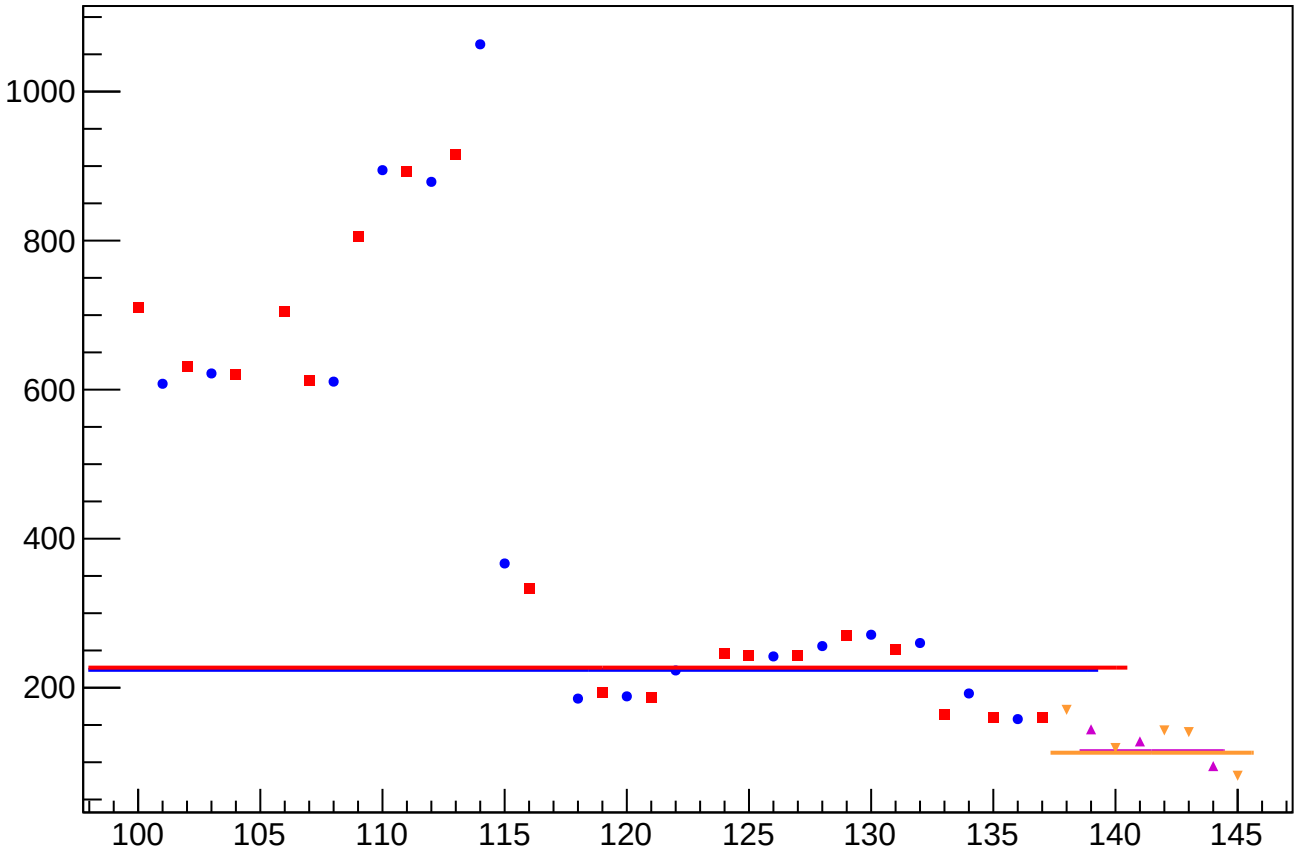
Left: 3.334+/-46.942 $\chi^2$/NDF: 11.4/7

Right: 78.263+/-66.958 $\chi^2$/NDF: 27.4/34

In: 95.310+/-57.687 $\chi^2$/NDF:14.1/18

Out: -25.697+/-51.546 $\chi^2$/NDF:23.0/23

All: 28.025+/-38.437 $\chi^2$/NDF: 39.6/42




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968059.8/15

Left Out: 112.803+/-0.043 $\chi^2$/NDF:510022.5/4

Right Out: 226.971+/-0.068 $\chi^2$/NDF: 3571946.9/18

Left In: 114.819+/-0.052 $\chi^2$/NDF:160712.7/2

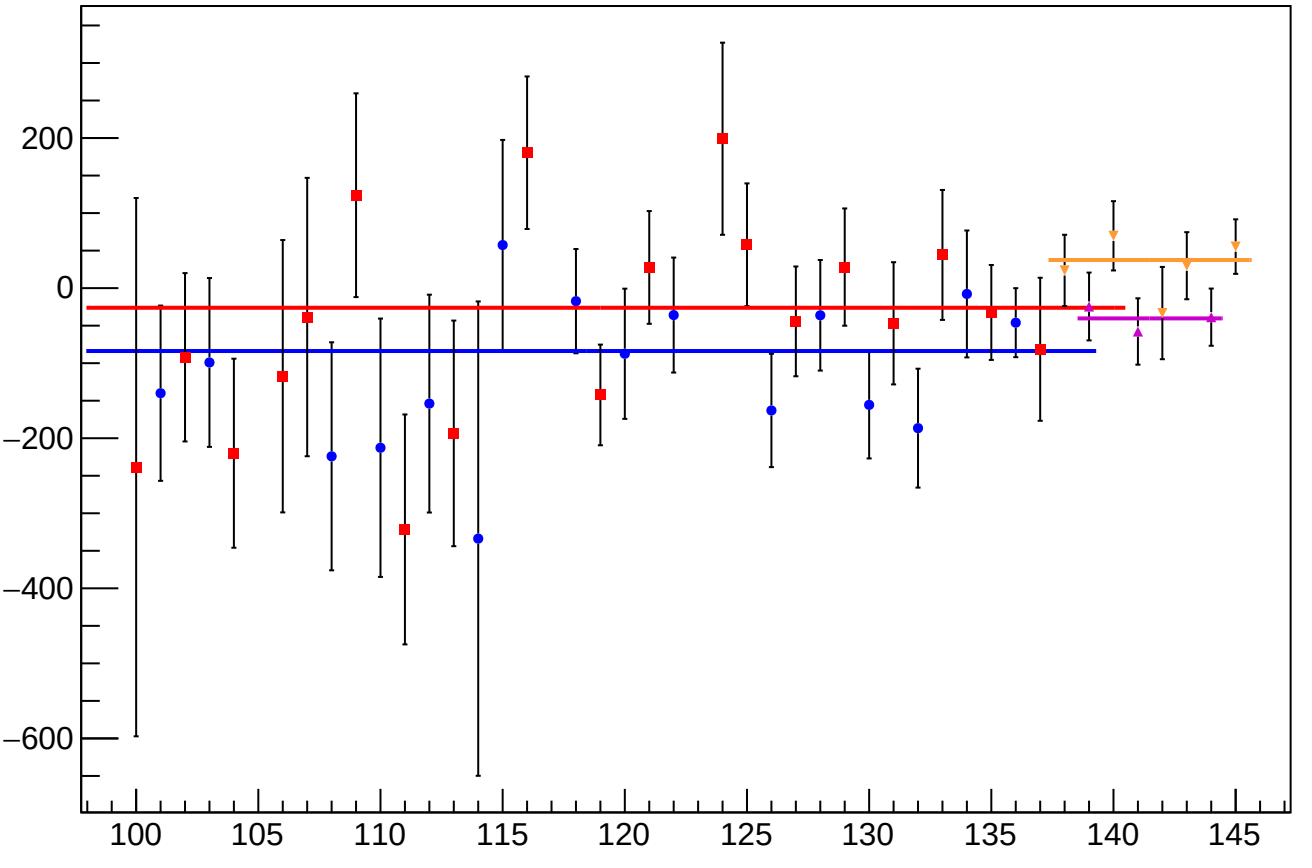
Left: 113.630+/-0.033 $\chi^2$/NDF: 671627.9/7

Right: 225.471+/-0.047 $\chi^2$/NDF: 6540963.0/34

In: 156.339+/-0.041 $\chi^2$/NDF:4818219.0/18

Out: 145.811+/-0.036 $\chi^2$/NDF:6098476.4/23

All: 150.485+/-0.027 $\chi^2$/NDF: 10953735.1/42




Right In: -83.805+/-21.434 $\chi^2$/NDF: 10.5/15

Left Out: 37.486+/-20.263 $\chi^2$/NDF:2.2/4

Right Out: -26.142+/-22.069 $\chi^2$/NDF: 22.9/18

Left In: -40.332+/-24.326 $\chi^2$/NDF:0.3/2

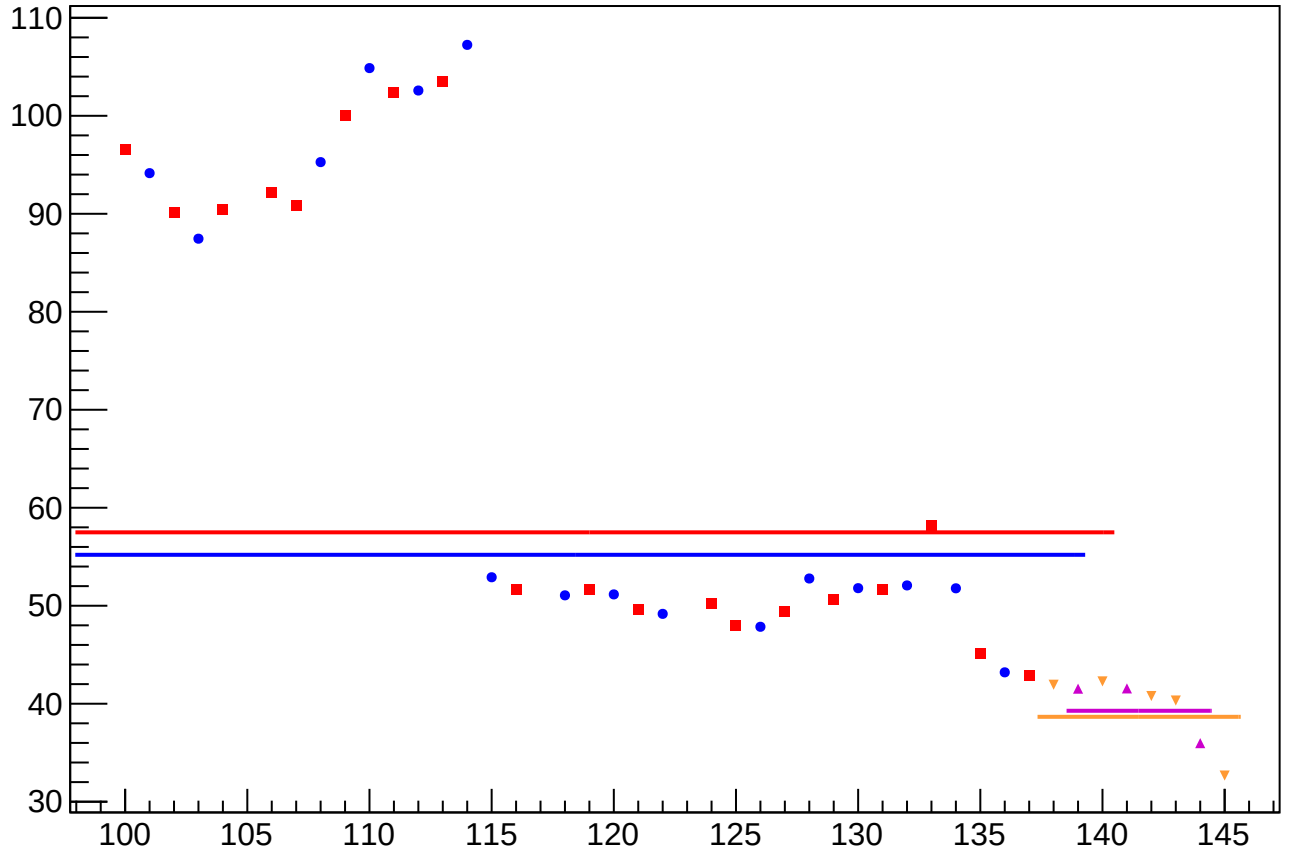
Left: 5.609+/-15.569 $\chi^2$/NDF: 8.5/7

Right: -55.815+/-15.376 $\chi^2$/NDF: 37.0/34

In: -64.804+/-16.082 $\chi^2$/NDF:12.6/18

Out: 8.382+/-14.926 $\chi^2$/NDF:29.6/23

All: -25.486+/-10.940 $\chi^2$/NDF: 53.3/42




Right In: 55.198+/-0.015 $\chi^2$/NDF: 1152581.3/15

Left Out: 38.664+/-0.014 $\chi^2$/NDF:81367.3/4

Right Out: 57.490+/-0.016 $\chi^2$/NDF: 1274387.3/18

Left In: 39.280+/-0.017 $\chi^2$/NDF:25353.3/2

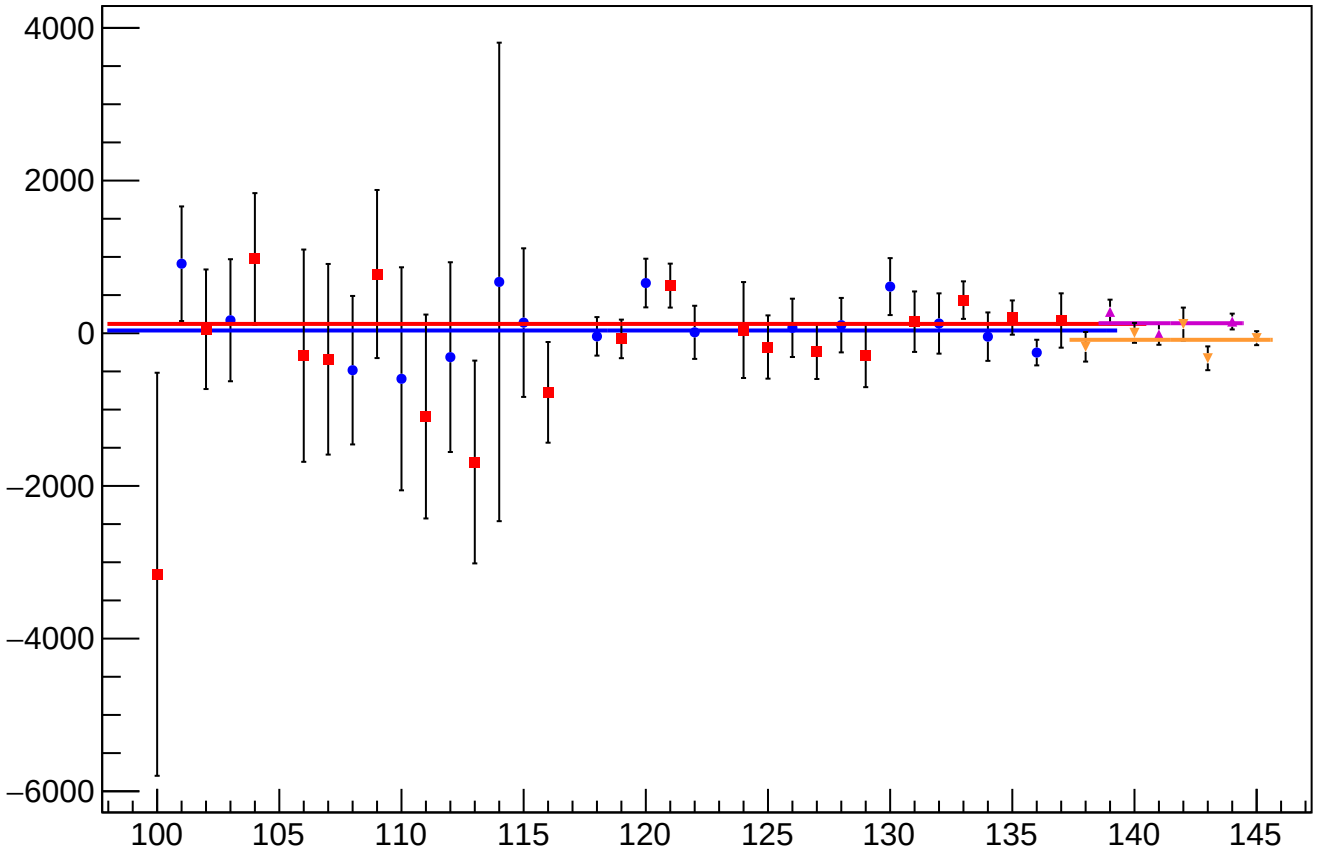
Left: 38.916+/-0.011 $\chi^2$/NDF: 107478.6/7

Right: 56.311+/-0.011 $\chi^2$/NDF: 2438075.6/34

In: 48.241+/-0.011 $\chi^2$/NDF:1660008.3/18

Out: 47.275+/-0.011 $\chi^2$/NDF:2145495.2/23

All: 47.722+/-0.008 $\chi^2$/NDF: 3809376.2/42




Right In: 36.327+/-93.563 $\chi^2$/NDF: 11.4/15

Left Out: -85.884+/-61.136 $\chi^2$/NDF:4.1/4

Right Out: 122.289+/-95.865 $\chi^2$/NDF: 15.6/18

Left In: 131.482+/-73.270 $\chi^2$/NDF:2.1/2

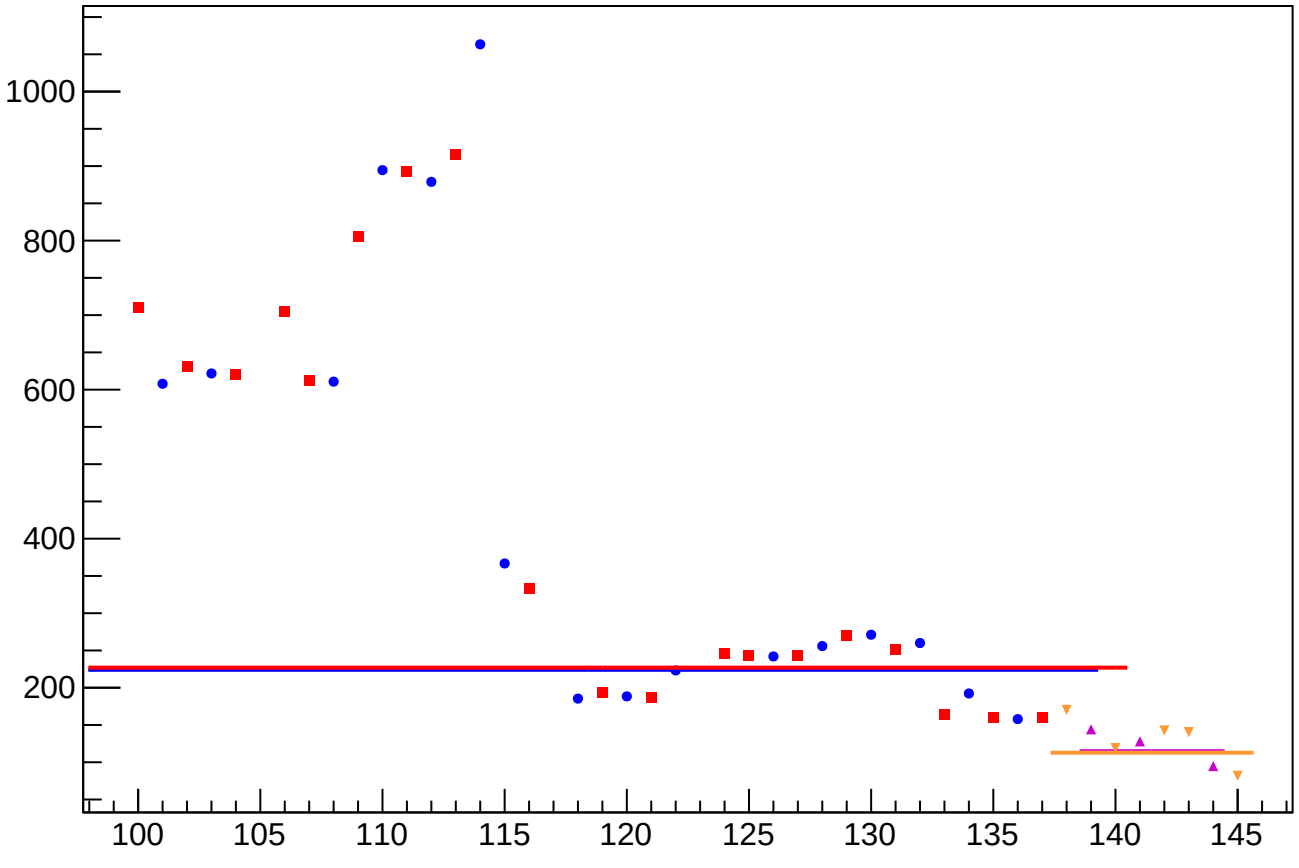
Left: 3.334+/-46.942 $\chi^2$/NDF: 11.4/7

Right: 78.263+/-66.958 $\chi^2$/NDF: 27.4/34

In: 95.310+/-57.687 $\chi^2$/NDF:14.1/18

Out: -25.697+/-51.546 $\chi^2$/NDF:23.0/23

All: 28.025+/-38.437 $\chi^2$/NDF: 39.6/42




Right In: 224.042+/-0.066 $\chi^2$/NDF: 2968059.8/15

Left Out: 112.803+/-0.043 $\chi^2$/NDF:510022.5/4

Right Out: 226.971+/-0.068 $\chi^2$/NDF: 3571946.9/18

Left In: 114.819+/-0.052 $\chi^2$/NDF:160712.7/2

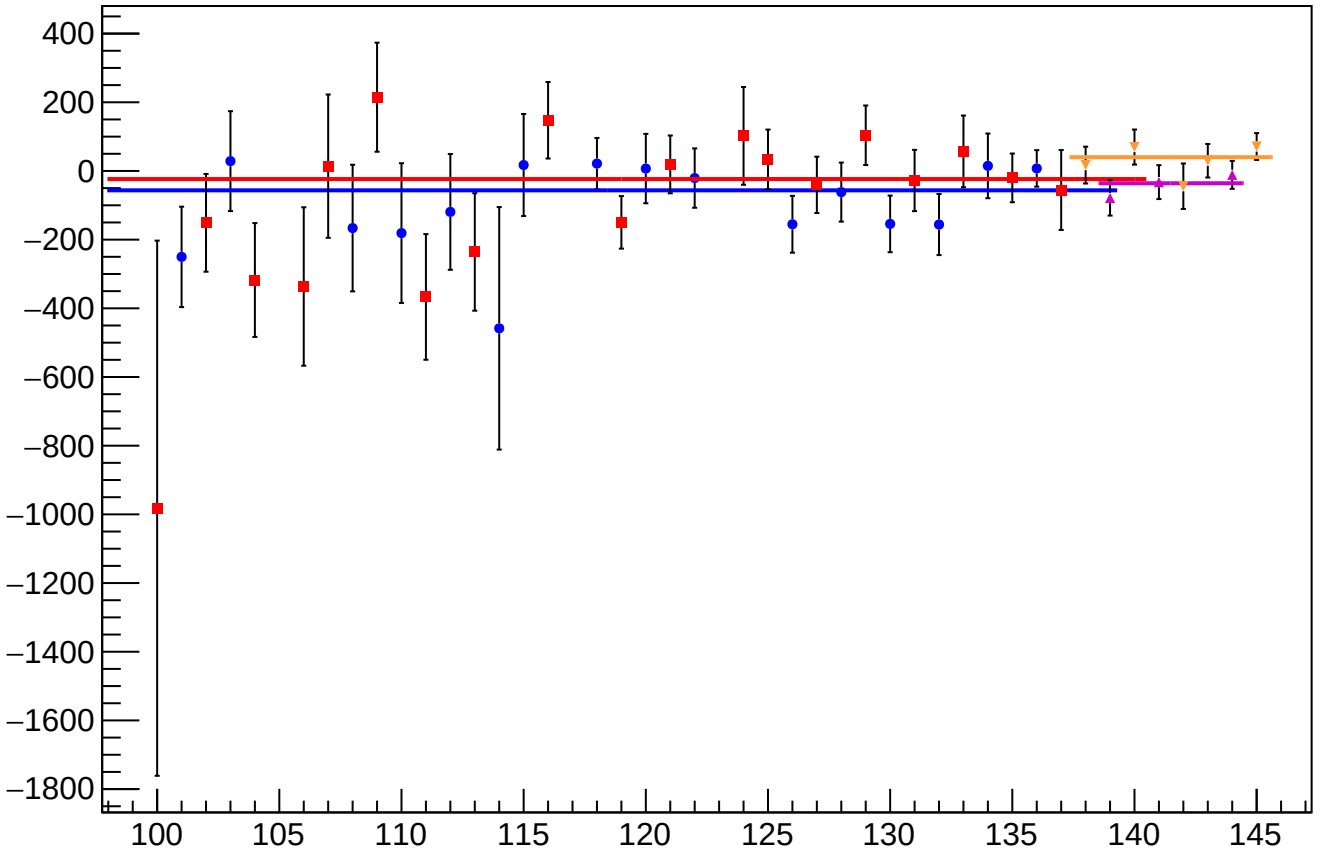
Left: 113.630+/-0.033 $\chi^2$/NDF: 671627.9/7

Right: 225.471+/-0.047 $\chi^2$/NDF: 6540963.0/34

In: 156.339+/-0.041 $\chi^2$/NDF:4818219.0/18

Out: 145.811+/-0.036 $\chi^2$/NDF:6098476.4/23

All: 150.485+/-0.027 $\chi^2$/NDF: 10953735.1/42




Right In: -56.414+/-24.489 $\chi^2$/NDF: 12.3/15

Left Out: 40.137+/-22.177 $\chi^2$/NDF:2.8/4

Right Out: -23.495+/-25.161 $\chi^2$/NDF: 24.1/18

Left In: -35.776+/-26.776 $\chi^2$/NDF:1.1/2

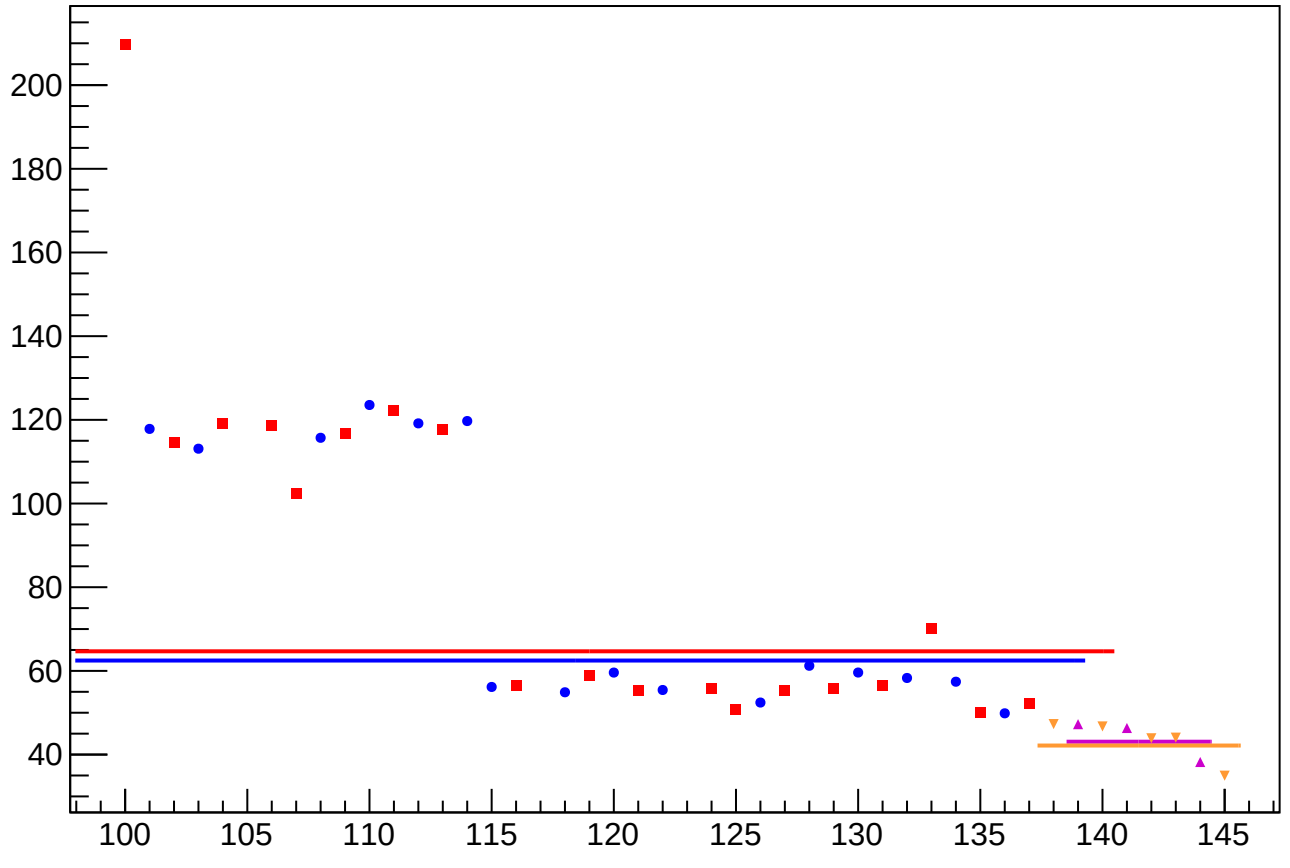
Left: 9.251+/-17.080 $\chi^2$/NDF: 8.6/7

Right: -40.400+/-17.549 $\chi^2$/NDF: 37.2/34

In: -47.014+/-18.071 $\chi^2$/NDF:13.6/18

Out: 12.316+/-16.637 $\chi^2$/NDF:30.5/23

All: -14.902+/-12.240 $\chi^2$/NDF: 50.0/42




Right In: 62.474+/-0.017 $\chi^2$/NDF: 1348224.3/15

Left Out: 42.160+/-0.016 $\chi^2$/NDF:106542.4/4

Right Out: 64.680+/-0.018 $\chi^2$/NDF: 1590446.9/18

Left In: 43.073+/-0.019 $\chi^2$/NDF:50595.8/2

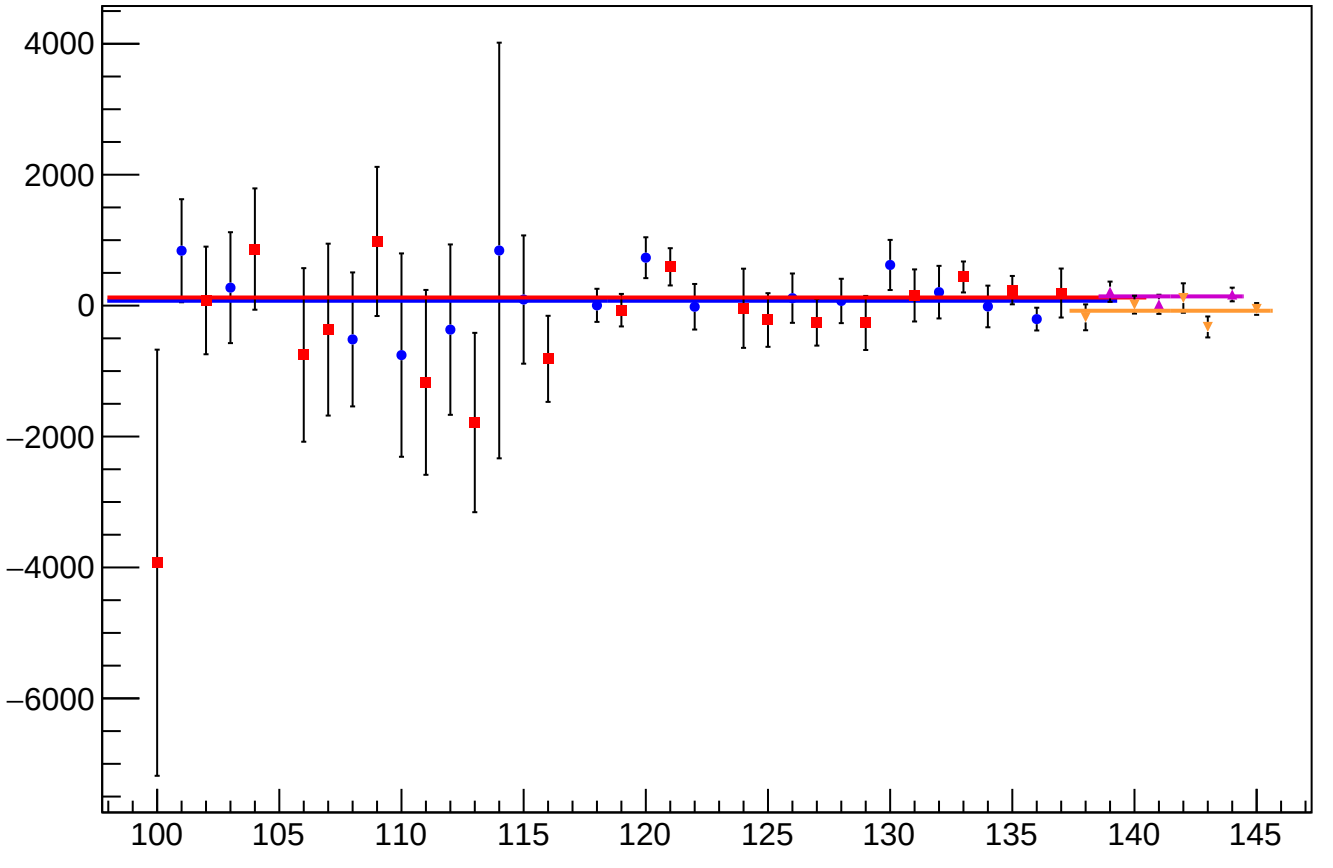
Left: 42.531+/-0.012 $\chi^2$/NDF: 158519.5/7

Right: 63.547+/-0.012 $\chi^2$/NDF: 2946567.9/34

In: 53.638+/-0.013 $\chi^2$/NDF:1970553.0/18

Out: 52.006+/-0.012 $\chi^2$/NDF:2598750.5/23

All: 52.755+/-0.009 $\chi^2$/NDF: 4578127.0/42




Right In: 74.294+/-94.492 $\chi^2$/NDF: 11.2/15

Left Out: -78.240+/-61.825 $\chi^2$/NDF:4.0/4

Right Out: 124.201+/-94.665 $\chi^2$/NDF: 16.3/18

Left In: 140.957+/-74.560 $\chi^2$/NDF:1.0/2

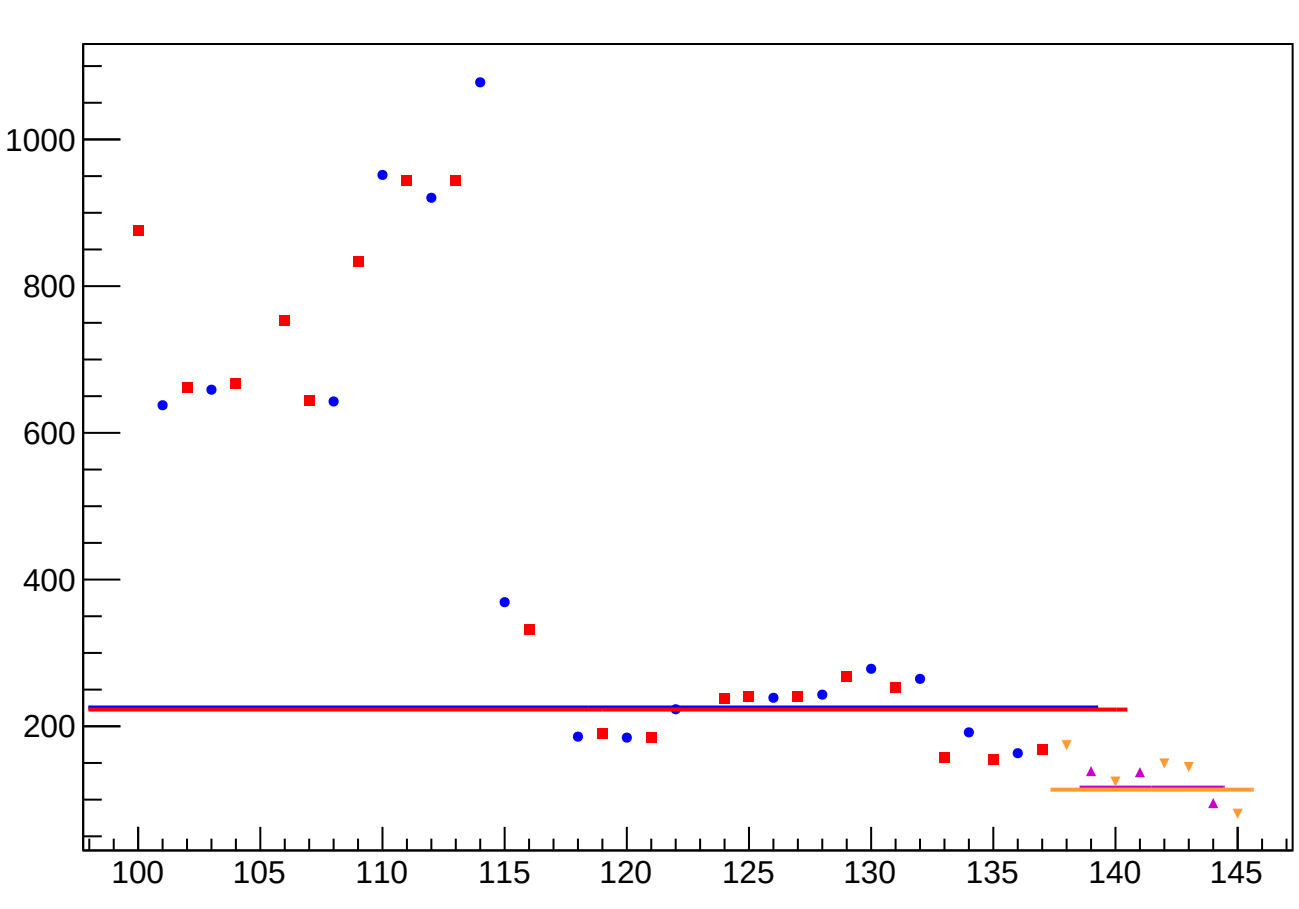
Left: 11.067+/-47.592 $\chi^2$/NDF: 10.1/7

Right: 99.202+/-66.877 $\chi^2$/NDF: 27.7/34

In: 115.378+/-58.533 $\chi^2$/NDF:12.5/18

Out: -17.711+/-51.763 $\chi^2$/NDF:23.5/23

All: 40.696+/-38.776 $\chi^2$/NDF: 38.9/42




Right In: 225.614+/-0.067 $\chi^2$/NDF: 3026007.7/15

Left Out: 113.604+/-0.044 $\chi^2$/NDF:591526.6/4

Right Out: 222.786+/-0.067 $\chi^2$/NDF: 3848156.1/18

Left In: 116.404+/-0.053 $\chi^2$/NDF:165184.9/2

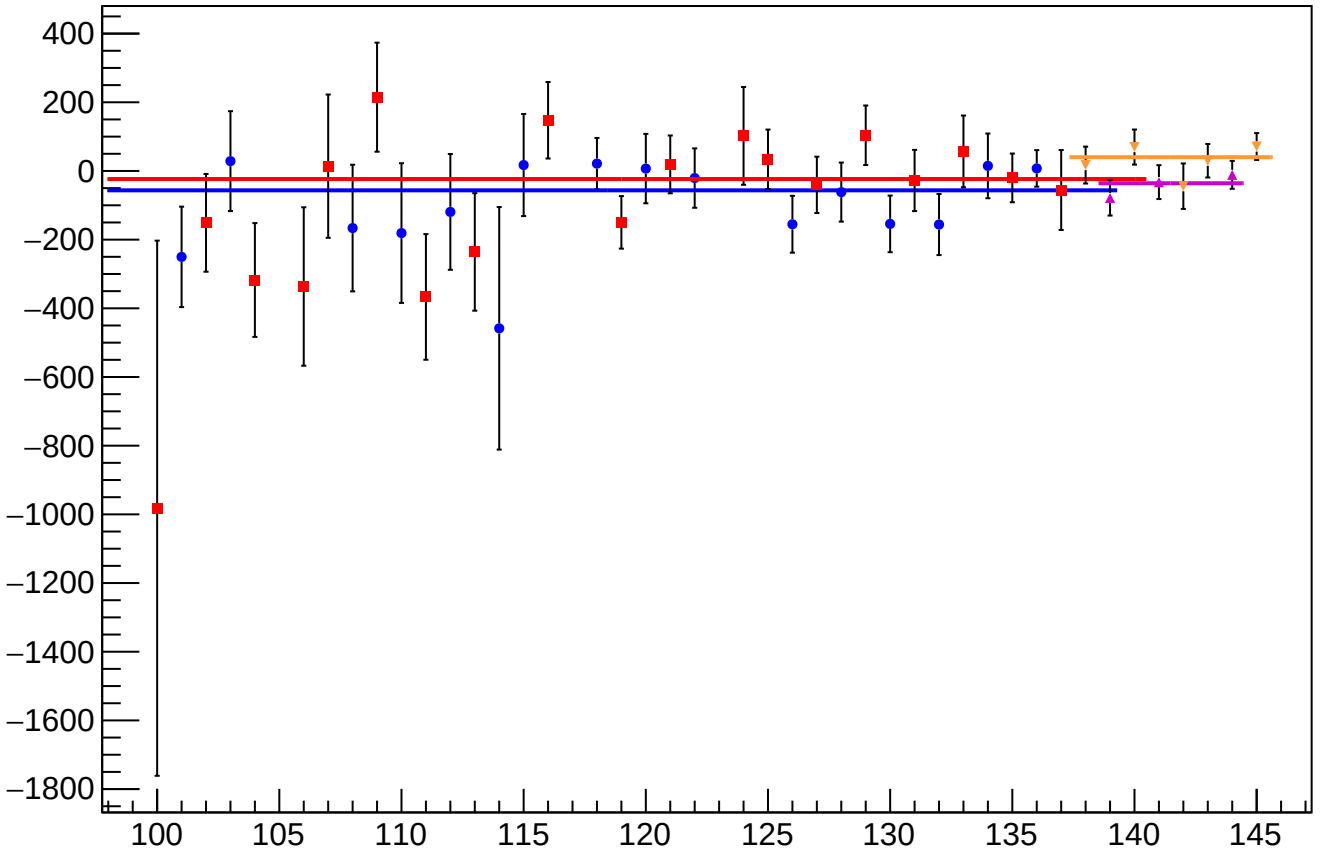
Left: 114.744+/-0.034 $\chi^2$/NDF: 758382.6/7

Right: 224.203+/-0.047 $\chi^2$/NDF: 6875057.9/34

In: 158.309+/-0.041 $\chi^2$/NDF:4837654.0/18

Out: 146.249+/-0.037 $\chi^2$/NDF:6304658.8/23

All: 151.541+/-0.027 $\chi^2$/NDF: 11189958.2/42




Right In: -56.415+/-24.489 $\chi^2$/NDF: 12.3/15

Left Out: 40.138+/-22.177 $\chi^2$/NDF:2.8/4

Right Out: -23.498+/-25.160 $\chi^2$/NDF: 24.1/18

Left In: -35.775+/-26.776 $\chi^2$/NDF:1.1/2

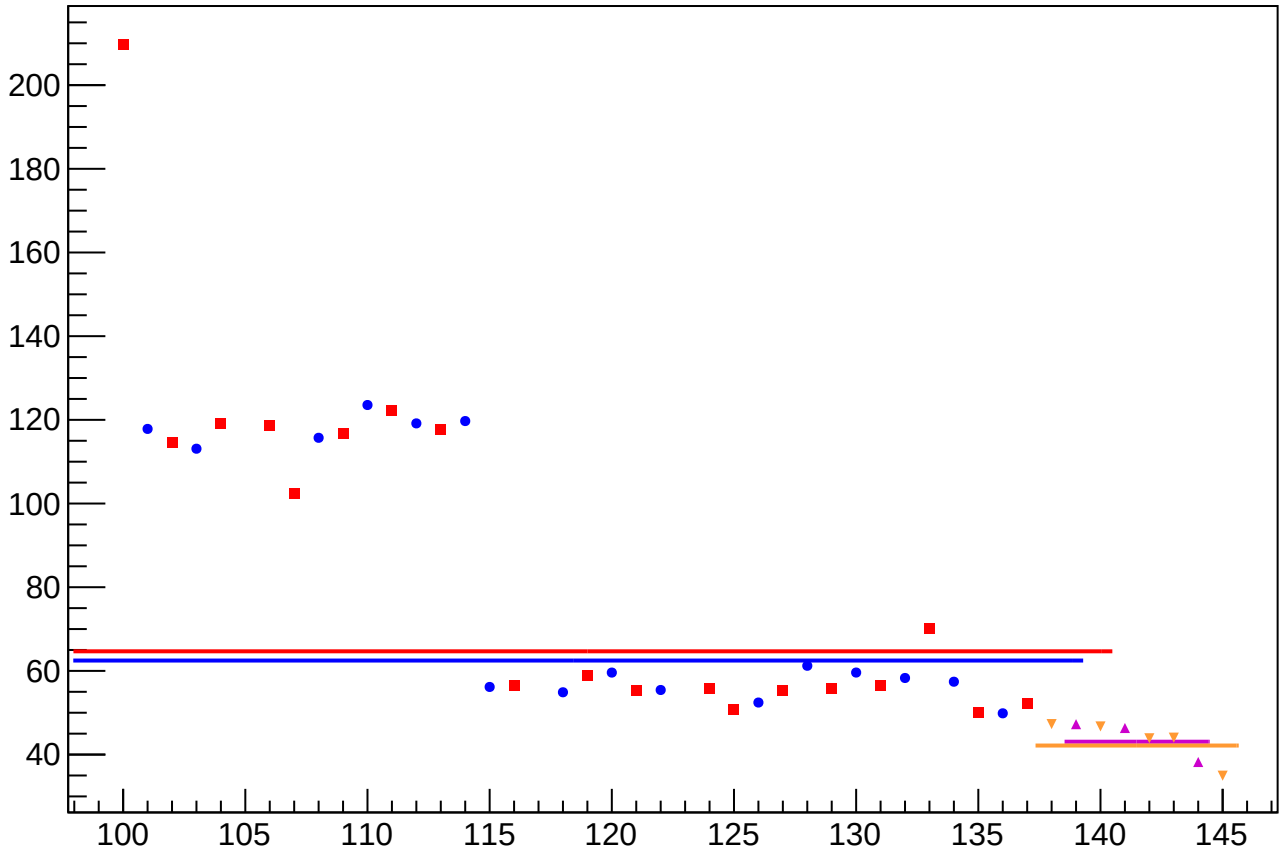
Left: 9.251+/-17.080 $\chi^2$/NDF: 8.6/7

Right: -40.402+/-17.549 $\chi^2$/NDF: 37.2/34

In: -47.014+/-18.071 $\chi^2$/NDF:13.6/18

Out: 12.315+/-16.637 $\chi^2$/NDF:30.5/23

All: -14.903+/-12.240 $\chi^2$/NDF: 50.0/42




Right In: 62.474+/-0.017 $\chi^2$/NDF: 1348204.7/15

Left Out: 42.160+/-0.016 $\chi^2$/NDF:106546.1/4

Right Out: 64.680+/-0.018 $\chi^2$/NDF: 1590426.1/18

Left In: 43.073+/-0.019 $\chi^2$/NDF:50594.5/2

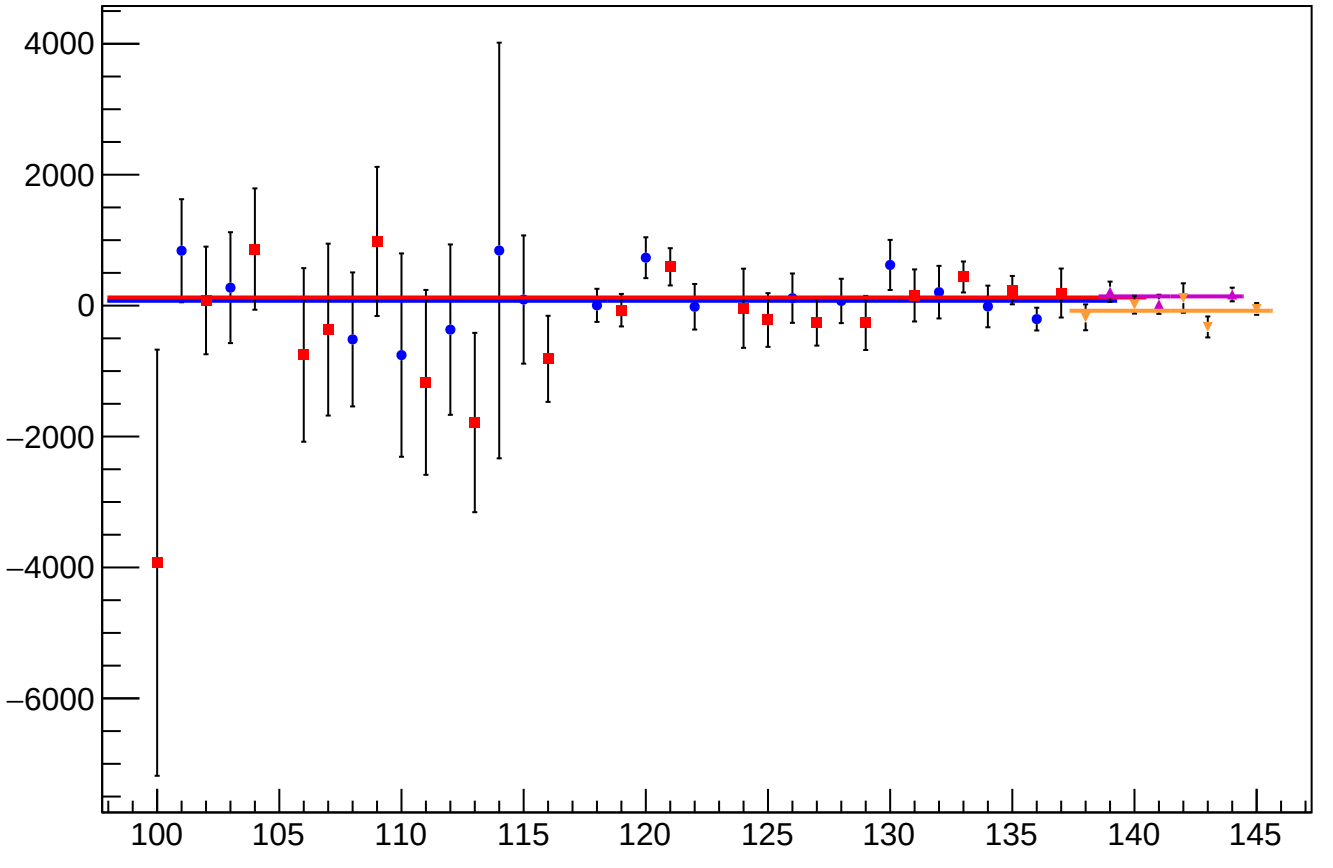
Left: 42.531+/-0.012 $\chi^2$/NDF: 158521.8/7

Right: 63.547+/-0.012 $\chi^2$/NDF: 2946529.3/34

In: 53.638+/-0.013 $\chi^2$/NDF:1970500.3/18

Out: 52.006+/-0.012 $\chi^2$/NDF:2598708.2/23

All: 52.755+/-0.009 $\chi^2$/NDF: 4578030.4/42




Right In: 74.295+/-94.492 $\chi^2$/NDF: 11.2/15

Left Out: -78.239+/-61.825 $\chi^2$/NDF:4.0/4

Right Out: 124.199+/-94.666 $\chi^2$/NDF: 16.3/18

Left In: 140.958+/-74.561 $\chi^2$/NDF:1.0/2

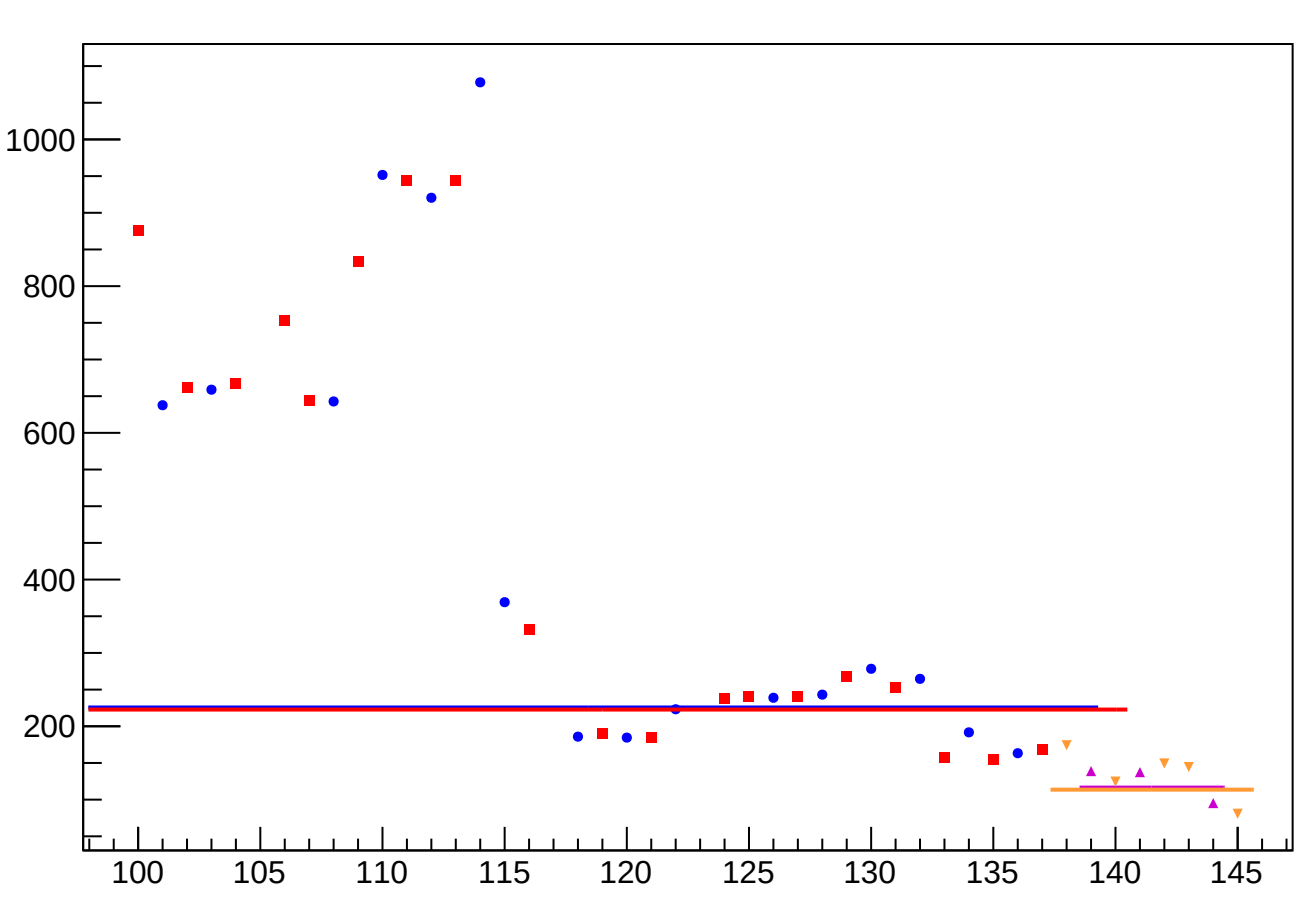
Left: 11.068+/-47.592 $\chi^2$/NDF: 10.1/7

Right: 99.201+/-66.877 $\chi^2$/NDF: 27.7/34

In: 115.378+/-58.533 $\chi^2$/NDF:12.5/18

Out: -17.711+/-51.764 $\chi^2$/NDF:23.5/23

All: 40.696+/-38.776 $\chi^2$/NDF: 38.9/42




Right In: 225.614+/-0.067 $\chi^2$/NDF: 3025994.8/15

Left Out: 113.604+/-0.044 $\chi^2$/NDF:591534.1/4

Right Out: 222.787+/-0.067 $\chi^2$/NDF: 3848136.6/18

Left In: 116.404+/-0.053 $\chi^2$/NDF:165188.5/2

Left: 114.745+/-0.034 $\chi^2$/NDF: 758393.7/7

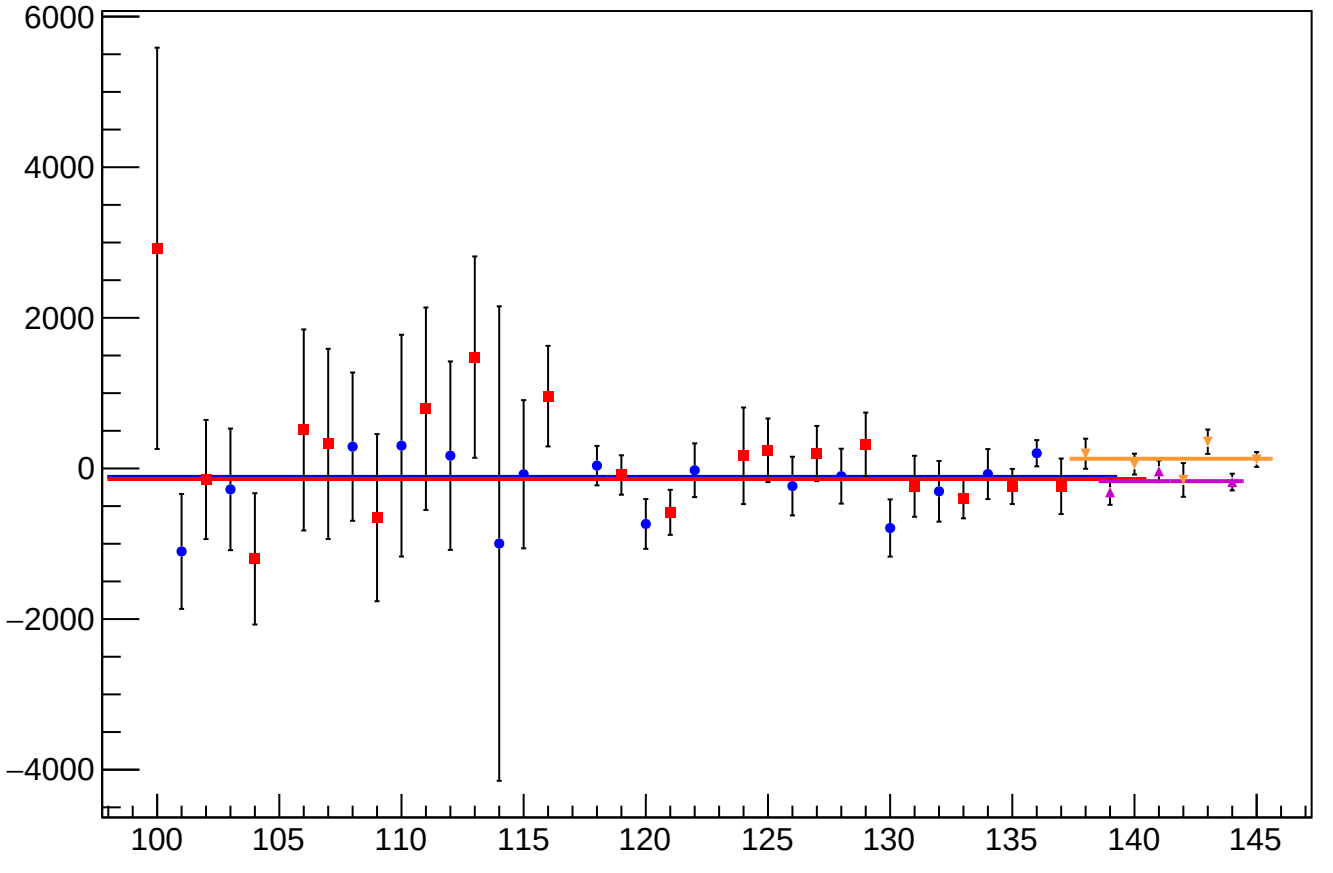
Right: 224.203+/-0.047 $\chi^2$/NDF: 6875025.2/34

In: 158.310+/-0.041 $\chi^2$/NDF:4837627.3/18

Out: 146.249+/-0.037 $\chi^2$/NDF:6304640.5/23

All: 151.542+/-0.027 $\chi^2$/NDF: 11189912.2/42

# asym_sam_37_26_dd_mean vs Slug, Sign Corrected




Right In: -111.916+/-96.551 $\chi^2$/NDF: 12.8/15

Left Out: 128.834+/-64.833 $\chi^2$/NDF:3.9/4

Right Out: -139.974+/-99.174 $\chi^2$/NDF: 14.6/18

Left In: -168.374+/-77.661 $\chi^2$/NDF:1.6/2

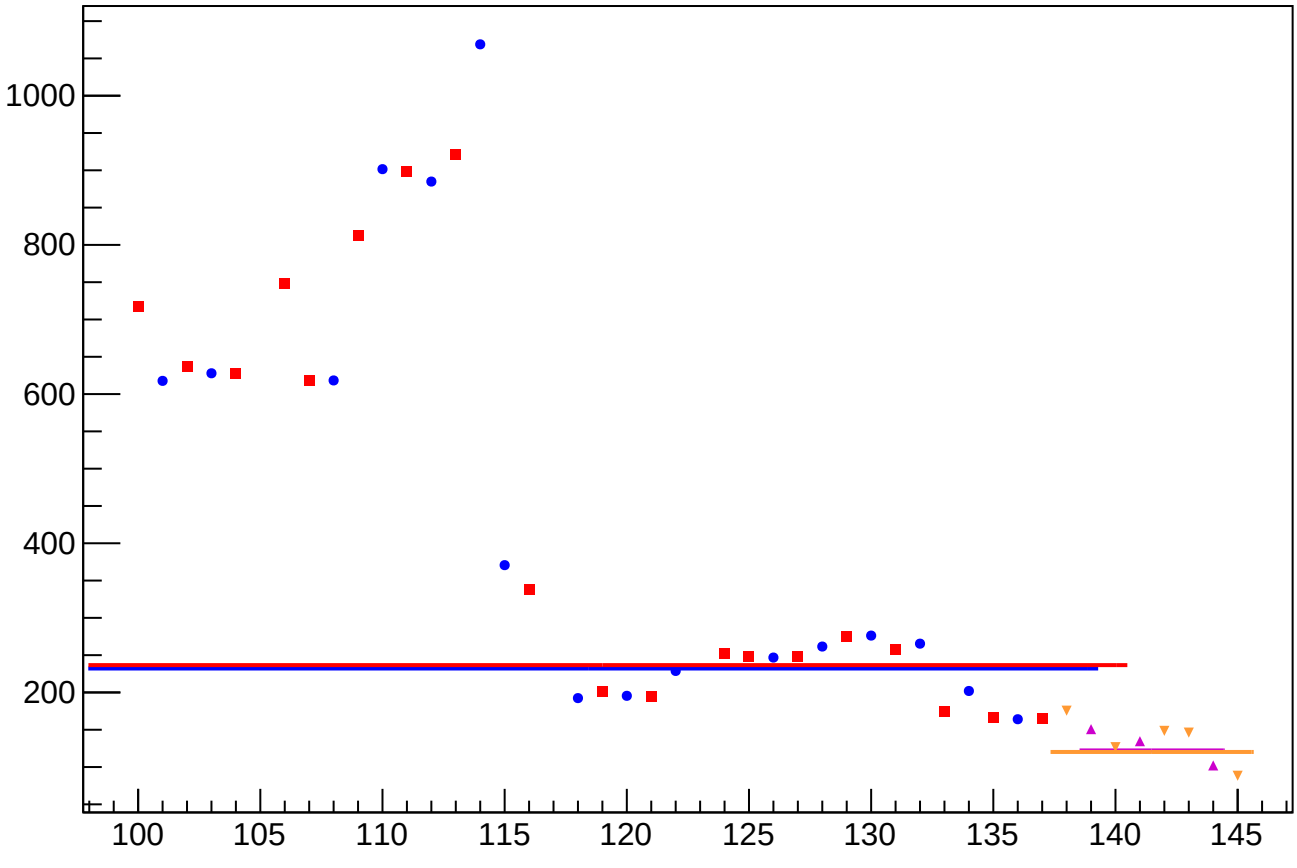
Left: 6.770+/-49.770 $\chi^2$/NDF: 14.2/7

Right: -125.569+/-69.180 $\chi^2$/NDF: 27.5/34

In: -146.196+/-60.514 $\chi^2$/NDF:14.7/18

Out: 48.350+/-54.266 $\chi^2$/NDF:23.7/23

All: -38.364+/-40.401 $\chi^2$/NDF: 44.1/42




Right In: 232.107+/-0.068 $\chi^2$/NDF: 2885510.6/15

Left Out: 120.219+/-0.046 $\chi^2$/NDF:449699.7/4

Right Out: 236.647+/-0.070 $\chi^2$/NDF: 3521033.7/18

Left In: 122.260+/-0.055 $\chi^2$/NDF:139311.4/2

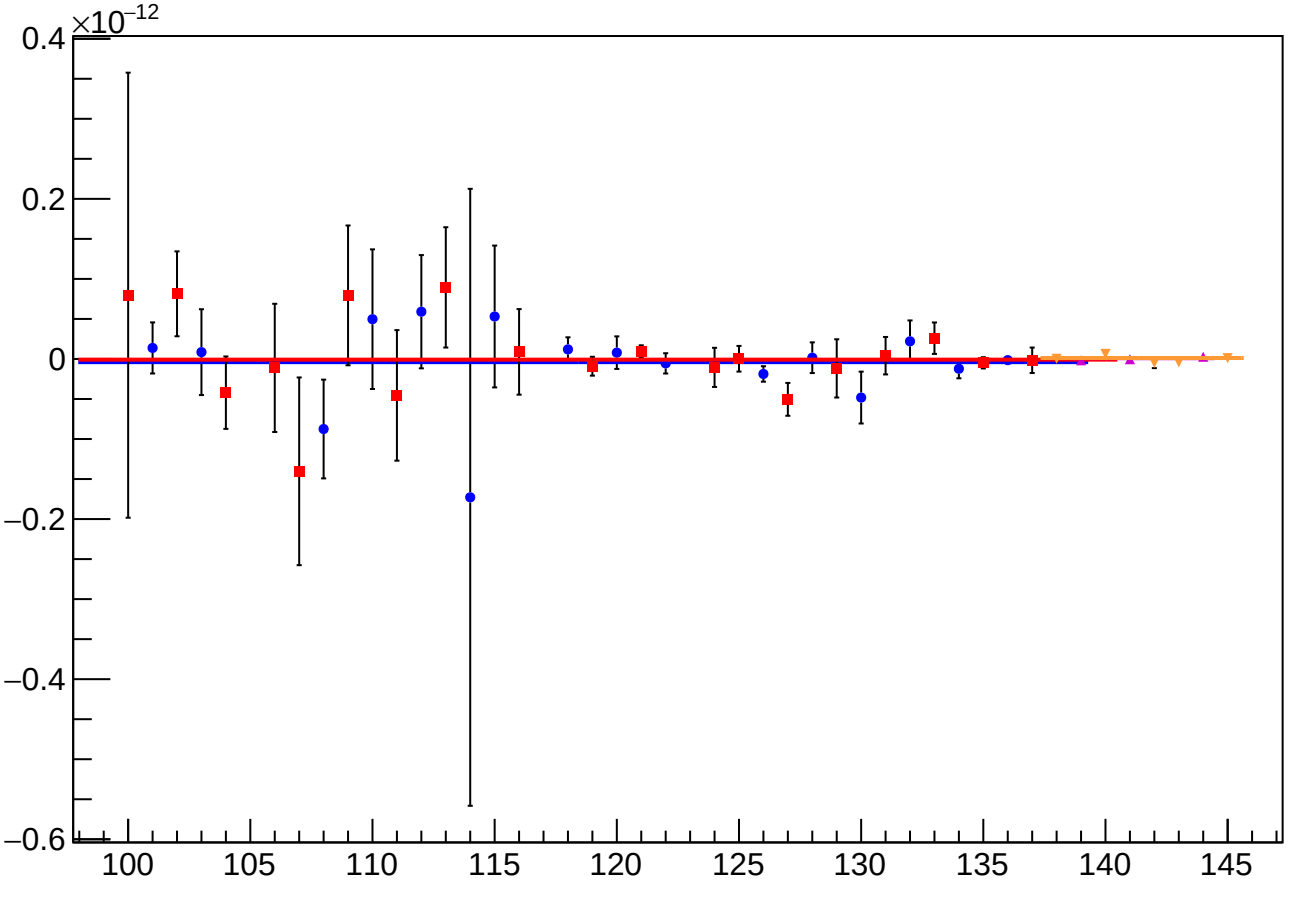
Left: 121.057+/-0.035 $\chi^2$/NDF: 589825.0/7

Right: 234.316+/-0.049 $\chi^2$/NDF: 6408696.2/34

In: 165.411+/-0.043 $\chi^2$/NDF:4596663.6/18

Out: 155.078+/-0.038 $\chi^2$/NDF:5901874.6/23

All: 159.684+/-0.029 $\chi^2$/NDF: 10530854.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.6/2

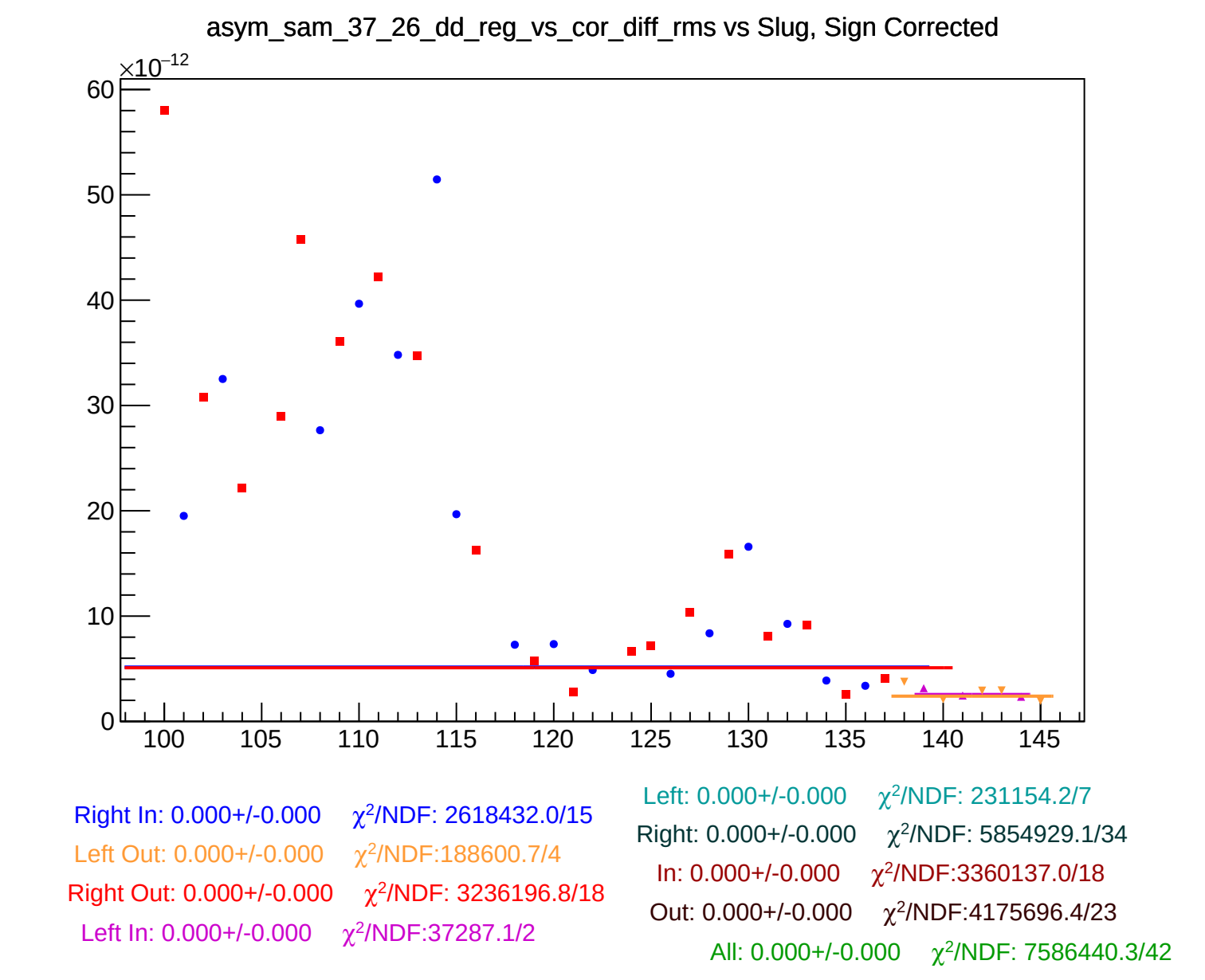
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.8/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 29.8/34

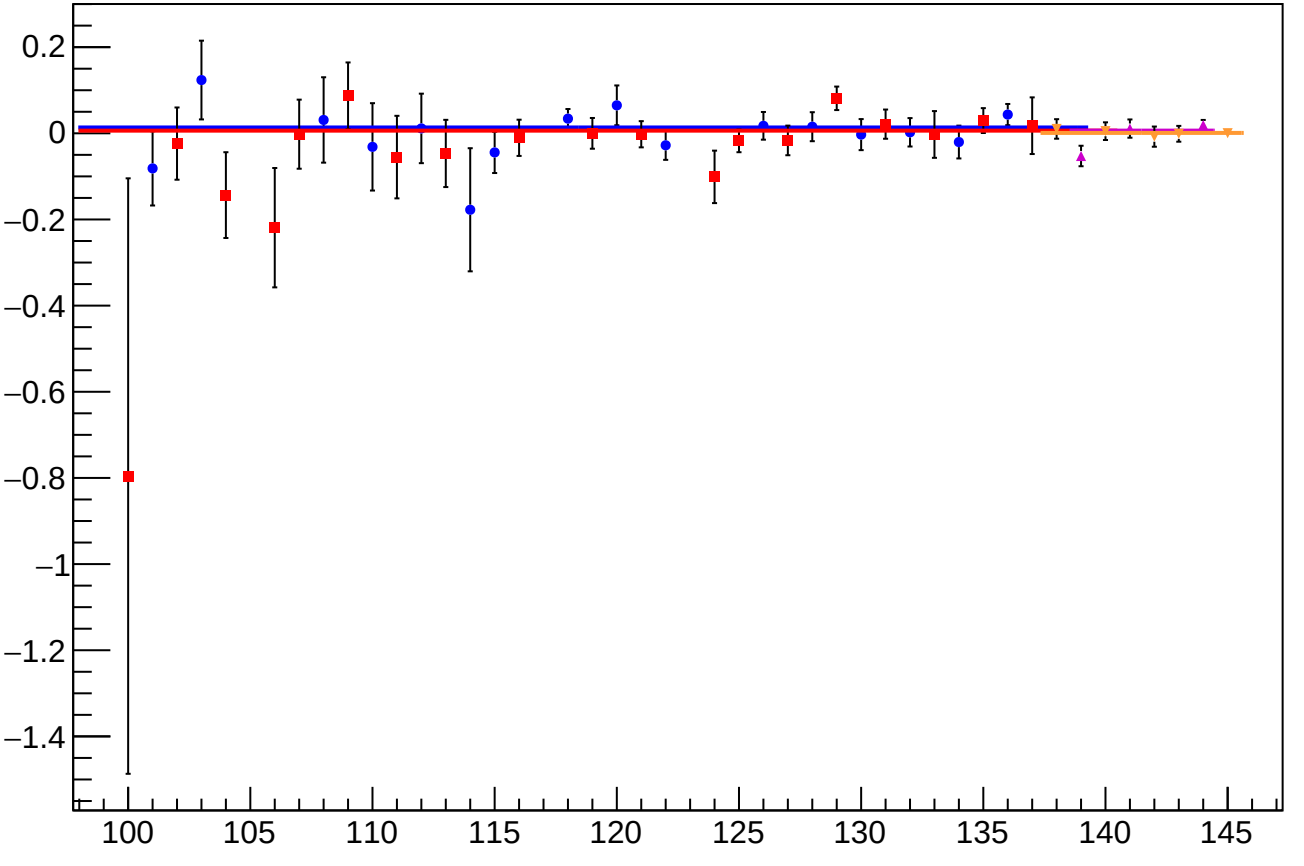
In: -0.000+/-0.000 $\chi^2$/NDF:13.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:22.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 36.0/42


asym_sam_37_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2618432.0/15
Left Out: 0.000+/-0.000 χ²/NDF:188600.7/4
Right Out: 0.000+/-0.000 χ²/NDF: 3236196.8/18
Left In: 0.000+/-0.000 χ²/NDF:37287.1/2
Left: 0.000+/-0.000 χ²/NDF: 231154.2/7
Right: 0.000+/-0.000 χ²/NDF: 5854929.1/34
In: 0.000+/-0.000 χ²/NDF:3360137.0/18
Out: 0.000+/-0.000 χ²/NDF:4175696.4/23
All: 0.000+/-0.000 χ²/NDF: 7586440.3/42

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: 0.001+/-0.008 $\chi^2$/NDF:0.4/4

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: 0.006+/-0.009 $\chi^2$/NDF:7.4/2

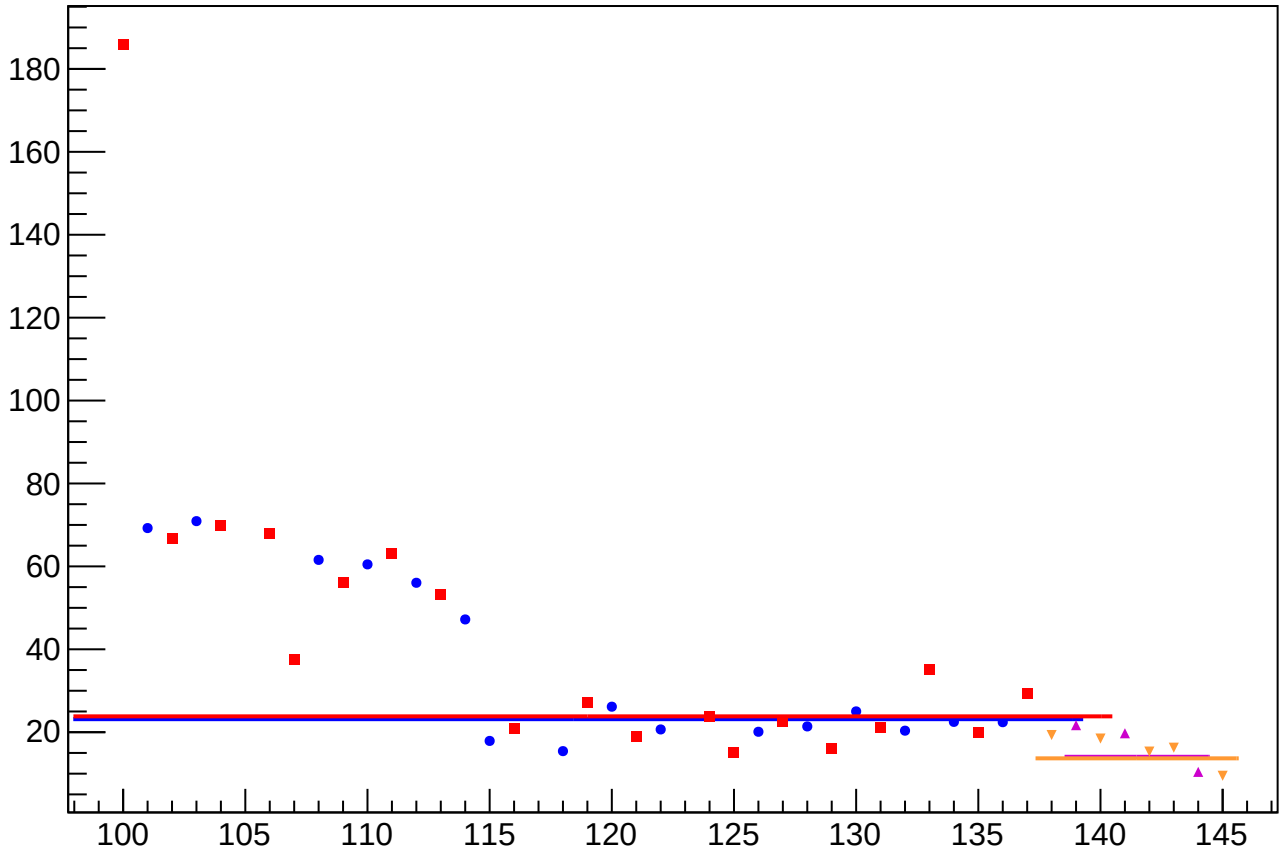
Left: 0.003+/-0.006 $\chi^2$/NDF: 7.9/7

Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.010+/-0.007 $\chi^2$/NDF:20.0/18

Out: 0.003+/-0.006 $\chi^2$/NDF:22.0/23

All: 0.006+/-0.005 $\chi^2$/NDF: 42.6/42




Right In: 23.145+/-0.007 $\chi^2$/NDF: 2406426.8/15

Left Out: 13.695+/-0.005 $\chi^2$/NDF:556930.5/4

Right Out: 23.825+/-0.007 $\chi^2$/NDF: 2898916.7/18

Left In: 14.069+/-0.007 $\chi^2$/NDF:539498.3/2

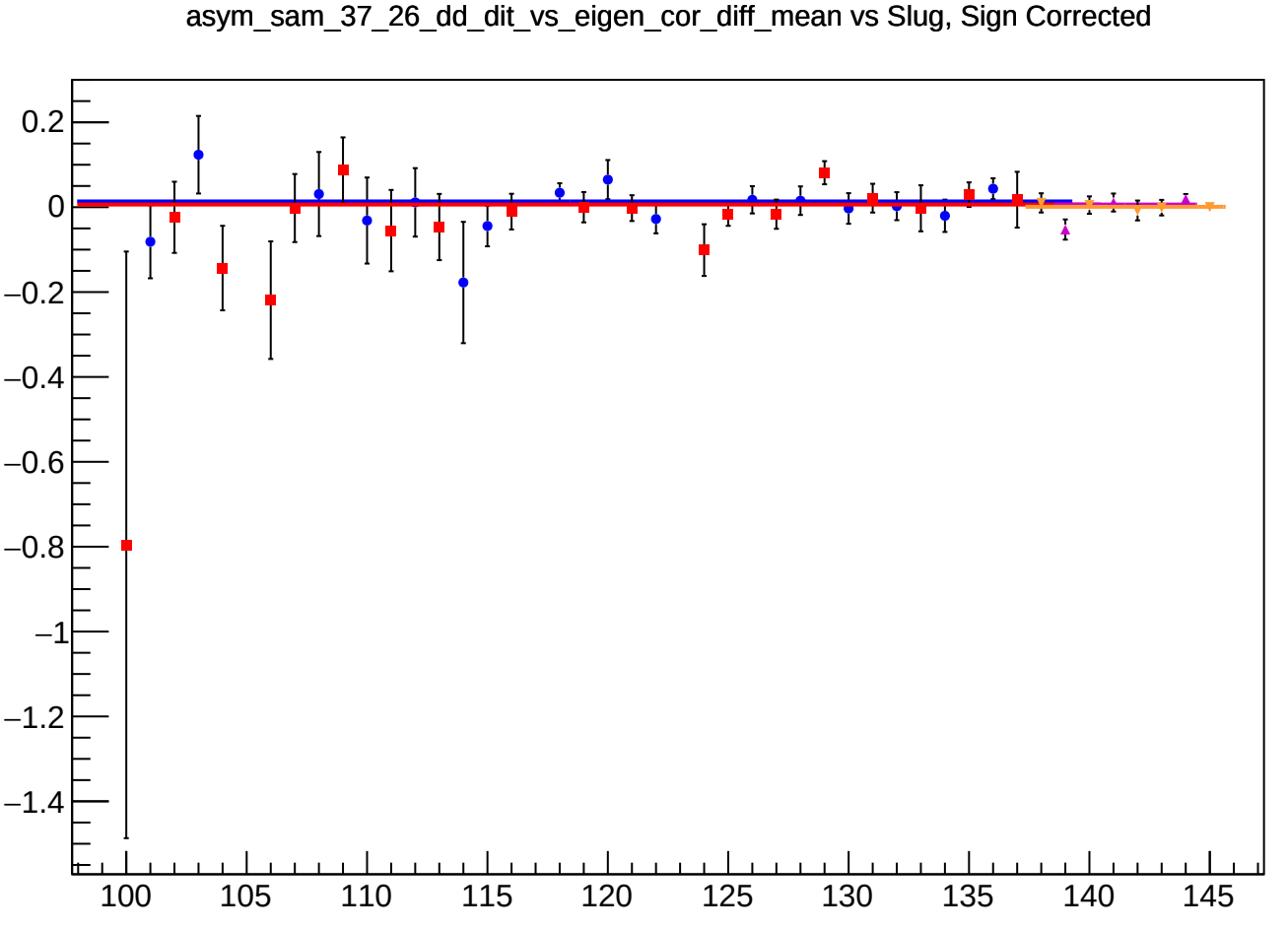
Left: 13.844+/-0.004 $\chi^2$/NDF: 1098311.1/7

Right: 23.477+/-0.005 $\chi^2$/NDF: 5310004.0/34

In: 18.423+/-0.005 $\chi^2$/NDF:3830059.0/18

Out: 17.422+/-0.004 $\chi^2$/NDF:4735564.8/23

All: 17.867+/-0.003 $\chi^2$/NDF: 8589507.6/42




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: 0.001+/-0.008 $\chi^2$/NDF:0.4/4

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: 0.006+/-0.009 $\chi^2$/NDF:7.4/2

Left: 0.003+/-0.006 $\chi^2$/NDF: 7.9/7

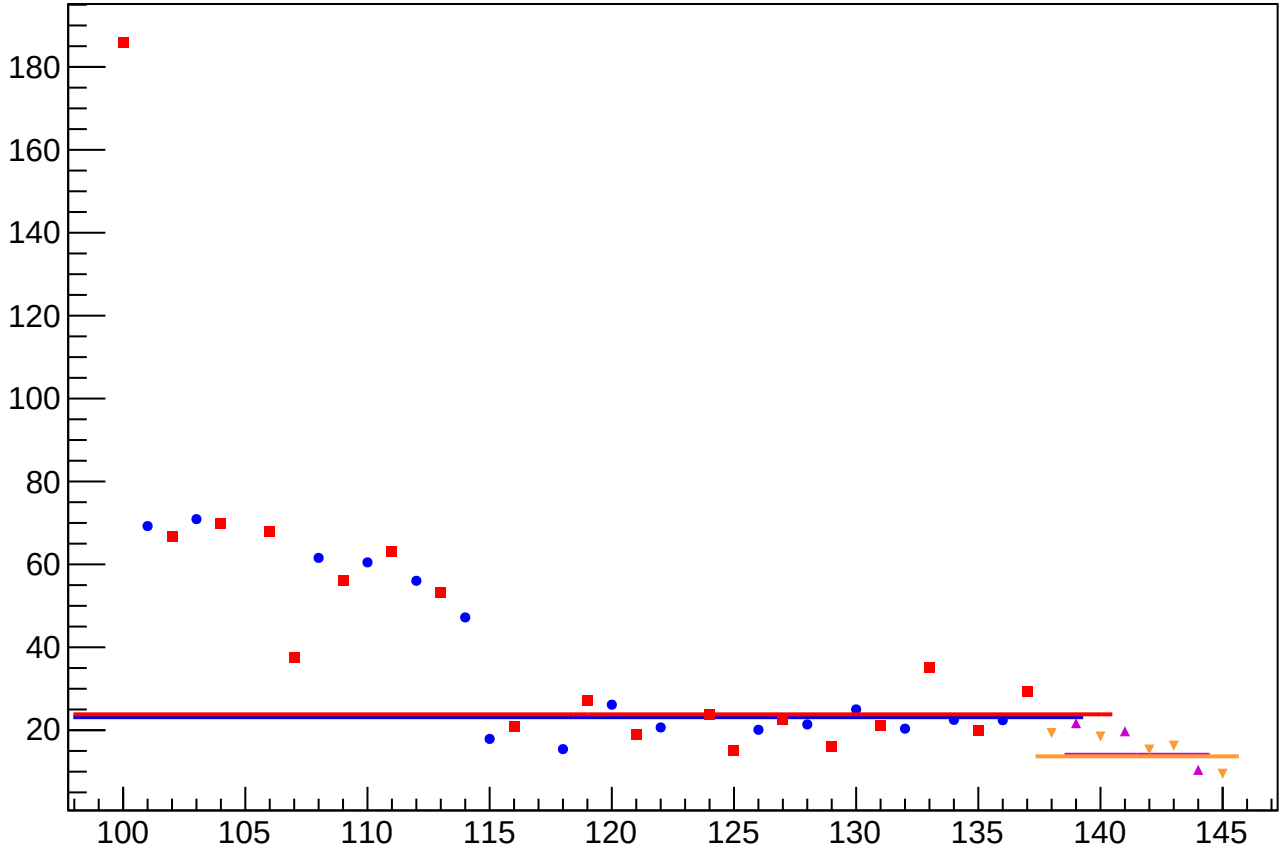
Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.010+/-0.007 $\chi^2$/NDF:20.0/18

Out: 0.003+/-0.006 $\chi^2$/NDF:22.0/23

All: 0.006+/-0.005 $\chi^2$/NDF: 42.6/42

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: 13.695+/-0.005 $\chi^2$/NDF:556930.5/4

Right Out: 23.825+/-0.007 $\chi^2$/NDF: 2898916.7/18

Left In: 14.069+/-0.007 $\chi^2$/NDF:539498.3/2

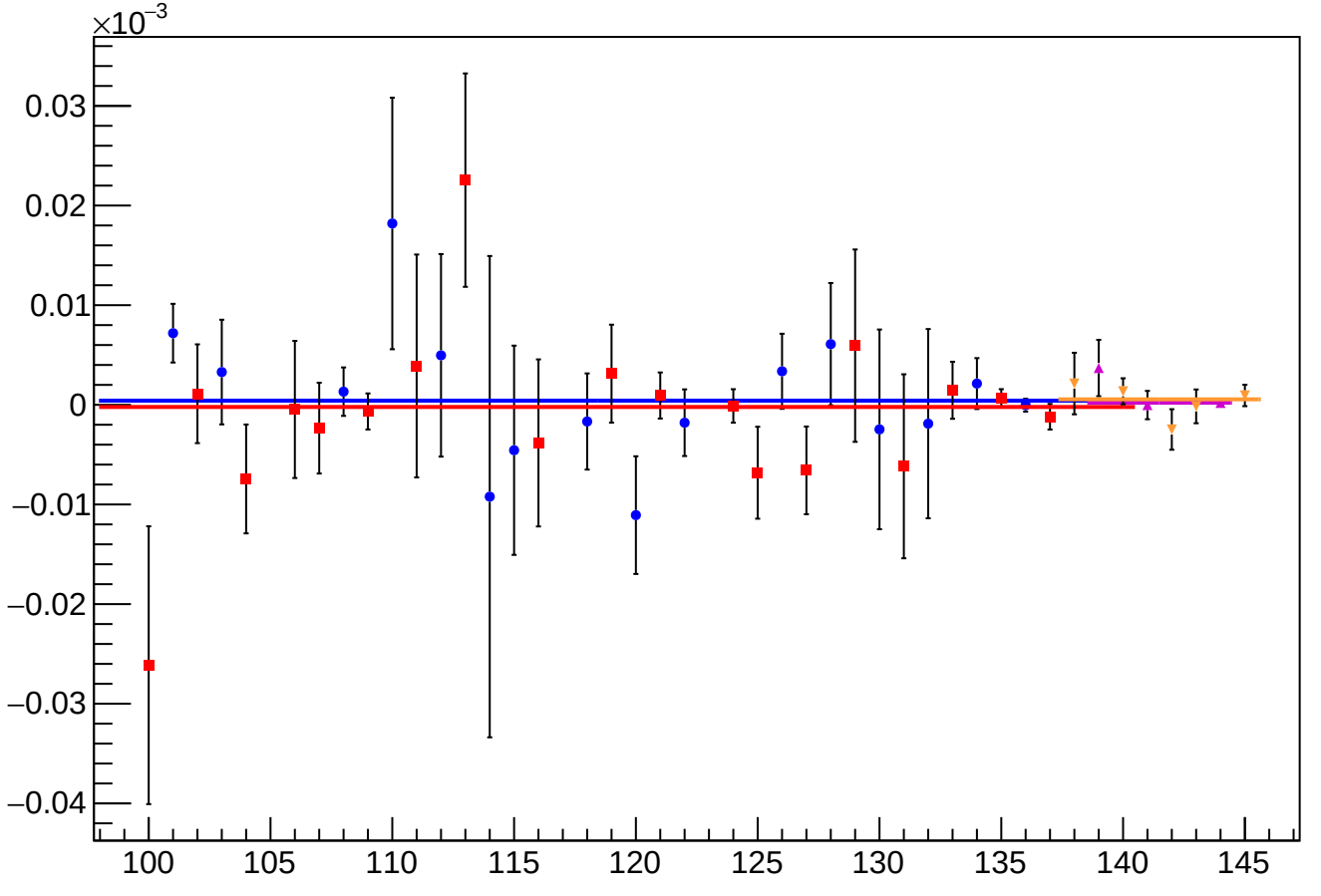
Left: 13.844+/-0.004 $\chi^2$/NDF: 1098311.1/7

Right: 23.477+/-0.005 $\chi^2$/NDF: 5310004.0/34

In: 18.423+/-0.005 $\chi^2$/NDF:3830059.0/18

Out: 17.422+/-0.004 $\chi^2$/NDF:4735564.8/23

All: 17.867+/-0.003 $\chi^2$/NDF: 8589507.6/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.2/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.5/2

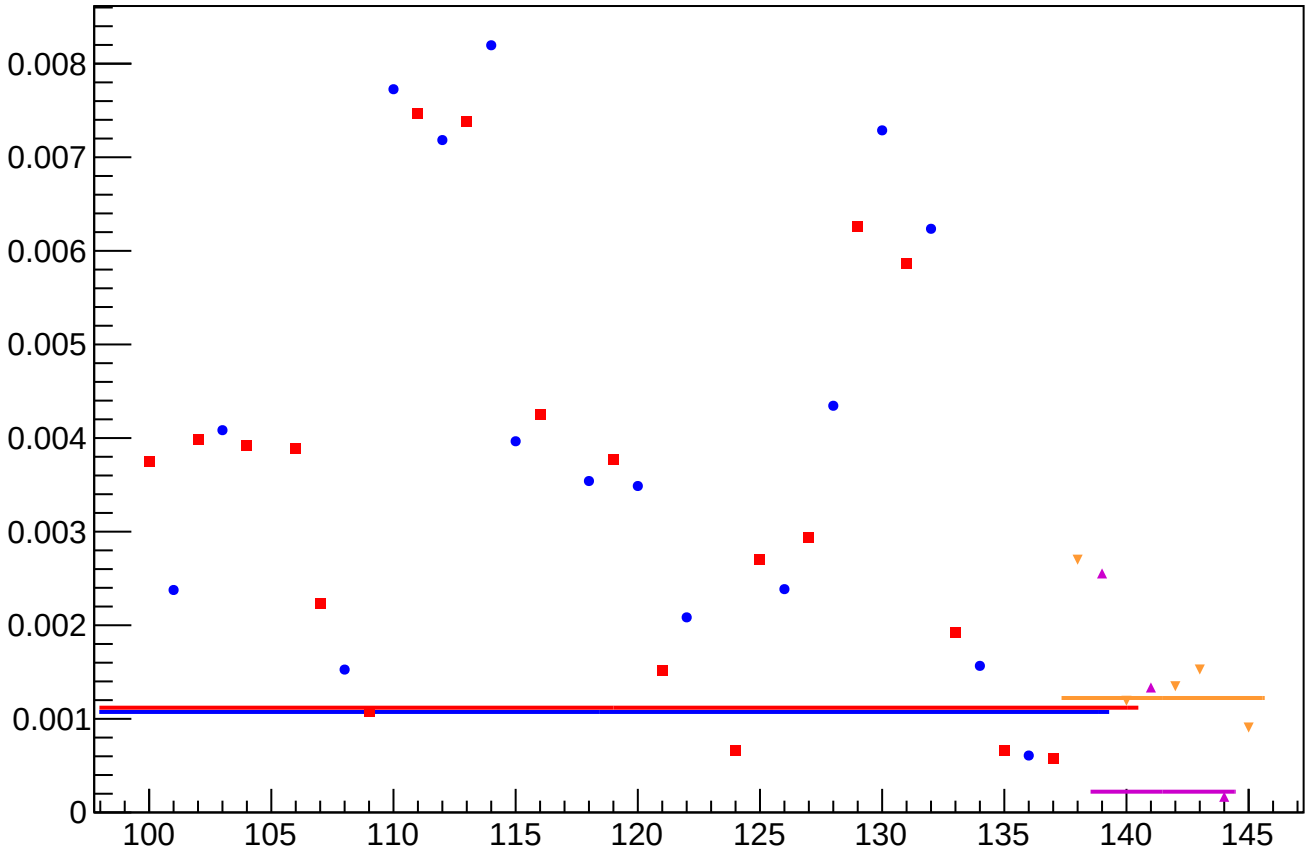
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.9/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:21.8/23

All: 0.000+/-0.000 $\chi^2$/NDF: 38.8/42




Right In: 0.001+/-0.000 $\chi^2$/NDF: 7045313.7/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:703508.3/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 6796343.2/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2677519.8/2

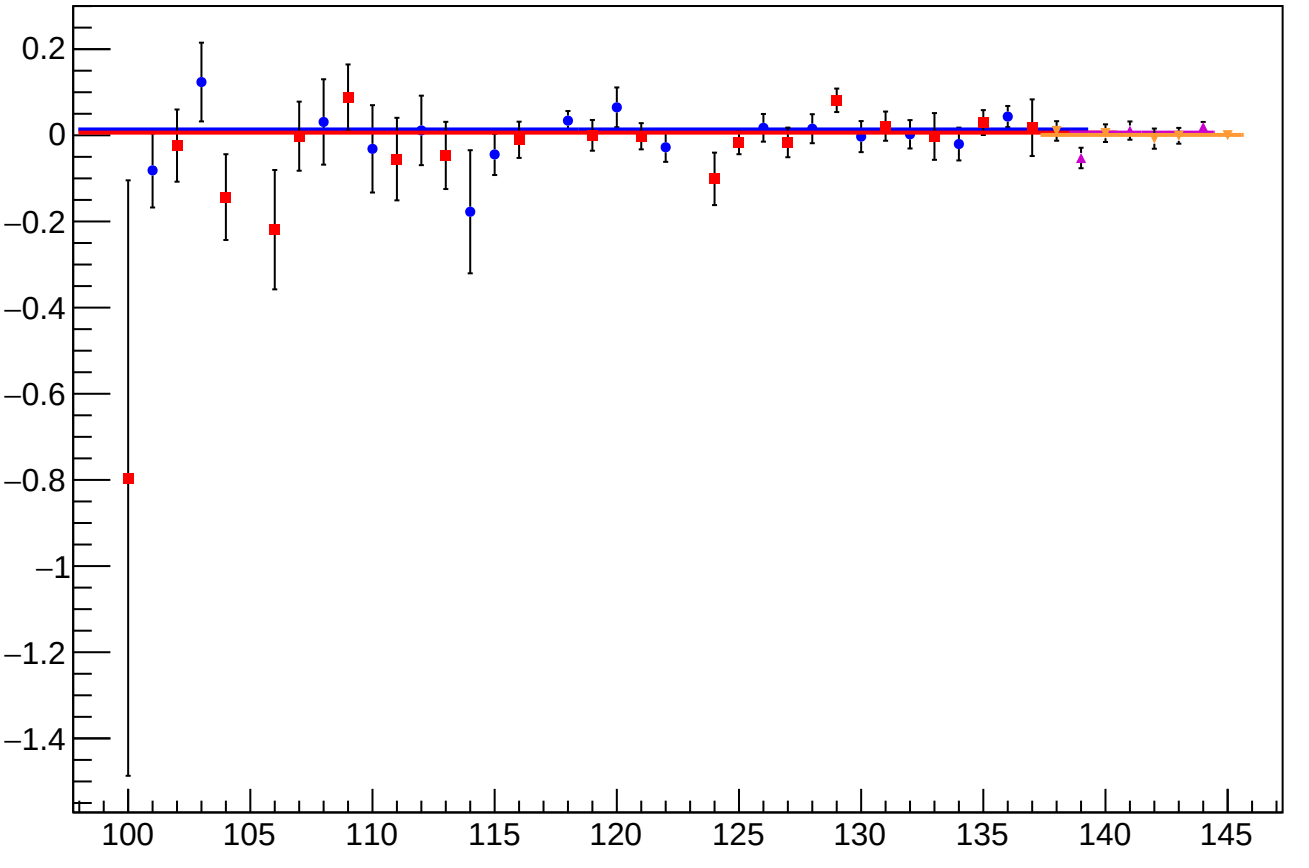
Left: 0.000+/-0.000 $\chi^2$/NDF: 7182297.4/7

Right: 0.001+/-0.000 $\chi^2$/NDF: 13848160.8/34

In: 0.000+/-0.000 $\chi^2$/NDF:13573029.6/18

Out: 0.001+/-0.000 $\chi^2$/NDF:7527049.0/23

All: 0.001+/-0.000 $\chi^2$/NDF: 26377885.5/42




Right In: 0.014+/-0.010 $\chi^2$/NDF: 12.3/15

Left Out: 0.001+/-0.008 $\chi^2$/NDF:0.4/4

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: 0.006+/-0.009 $\chi^2$/NDF:7.4/2

Left: 0.003+/-0.006 $\chi^2$/NDF: 7.9/7

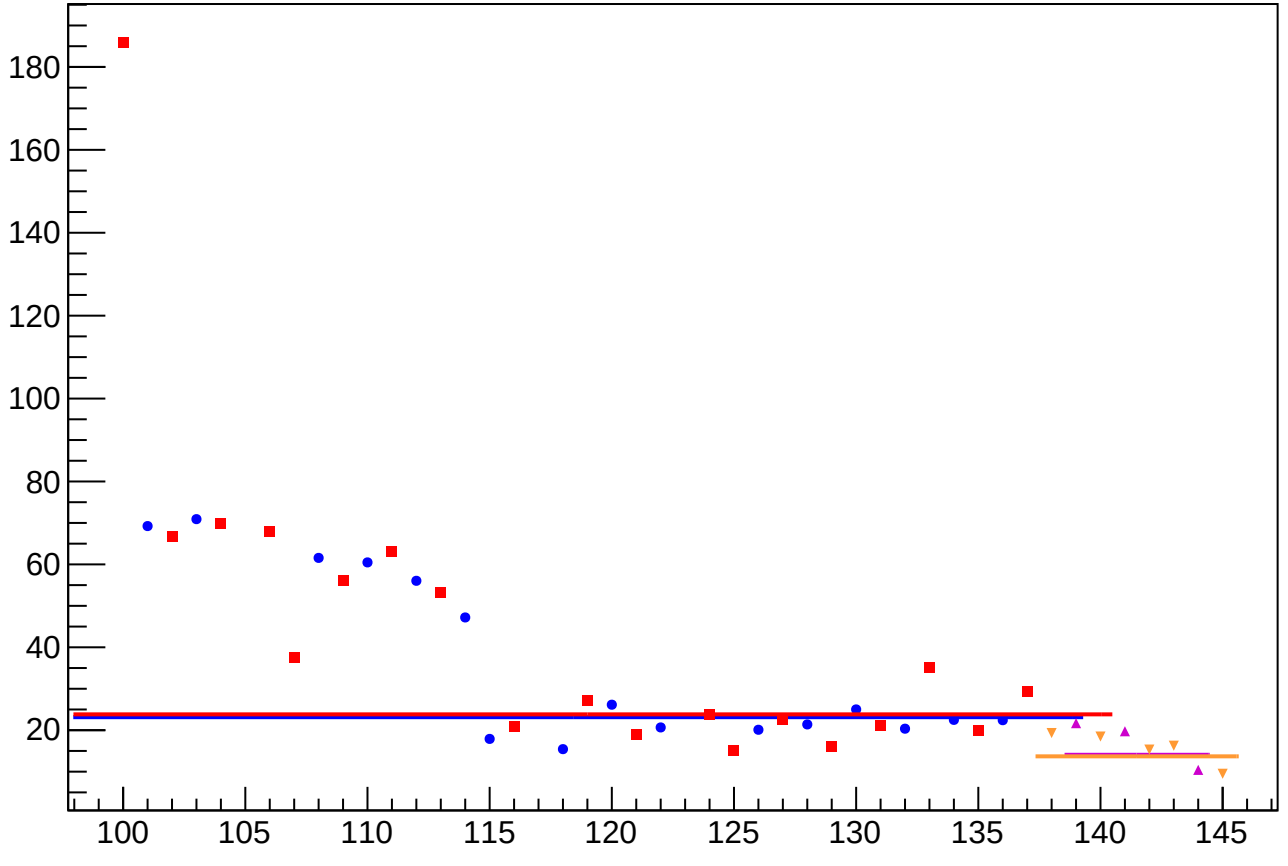
Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.010+/-0.007 $\chi^2$/NDF:20.0/18

Out: 0.003+/-0.006 $\chi^2$/NDF:22.0/23

All: 0.006+/-0.005 $\chi^2$/NDF: 42.6/42

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: 13.696+/-0.005 $\chi^2$/NDF:557018.0/4

Right Out: 23.824+/-0.007 $\chi^2$/NDF: 2898863.9/18

Left In: 14.069+/-0.007 $\chi^2$/NDF:539483.3/2

Left: 13.844+/-0.004 $\chi^2$/NDF: 1098385.4/7

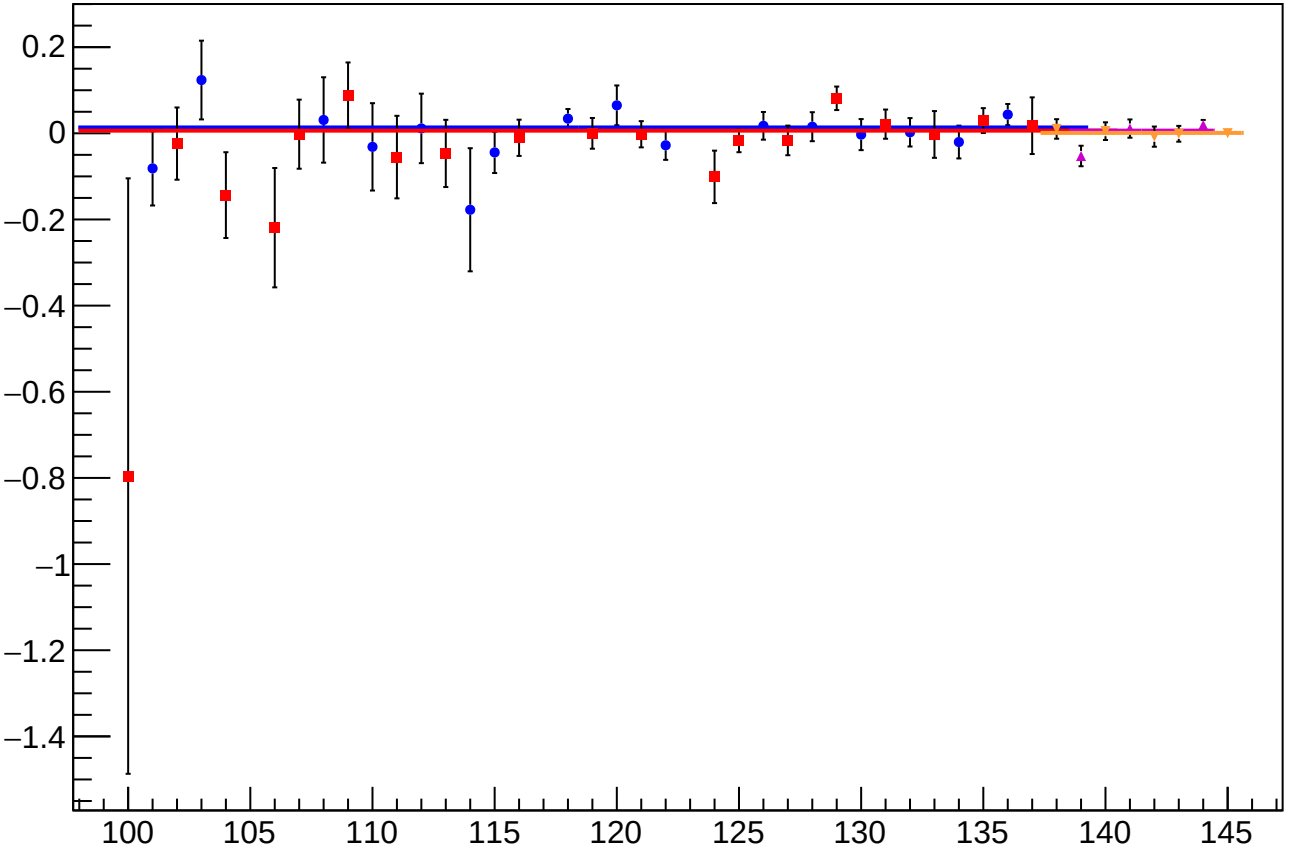
Right: 23.476+/-0.005 $\chi^2$/NDF: 5309985.6/34

In: 18.422+/-0.005 $\chi^2$/NDF:3829805.8/18

Out: 17.422+/-0.004 $\chi^2$/NDF:4735469.0/23

All: 17.867+/-0.003 $\chi^2$/NDF: 8589150.7/42

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: 0.001+/-0.008 $\chi^2$/NDF:0.4/4

Right Out: 0.006+/-0.010 $\chi^2$/NDF: 21.5/18

Left In: 0.006+/-0.009 $\chi^2$/NDF:7.4/2

Left: 0.003+/-0.006 $\chi^2$/NDF: 7.9/7

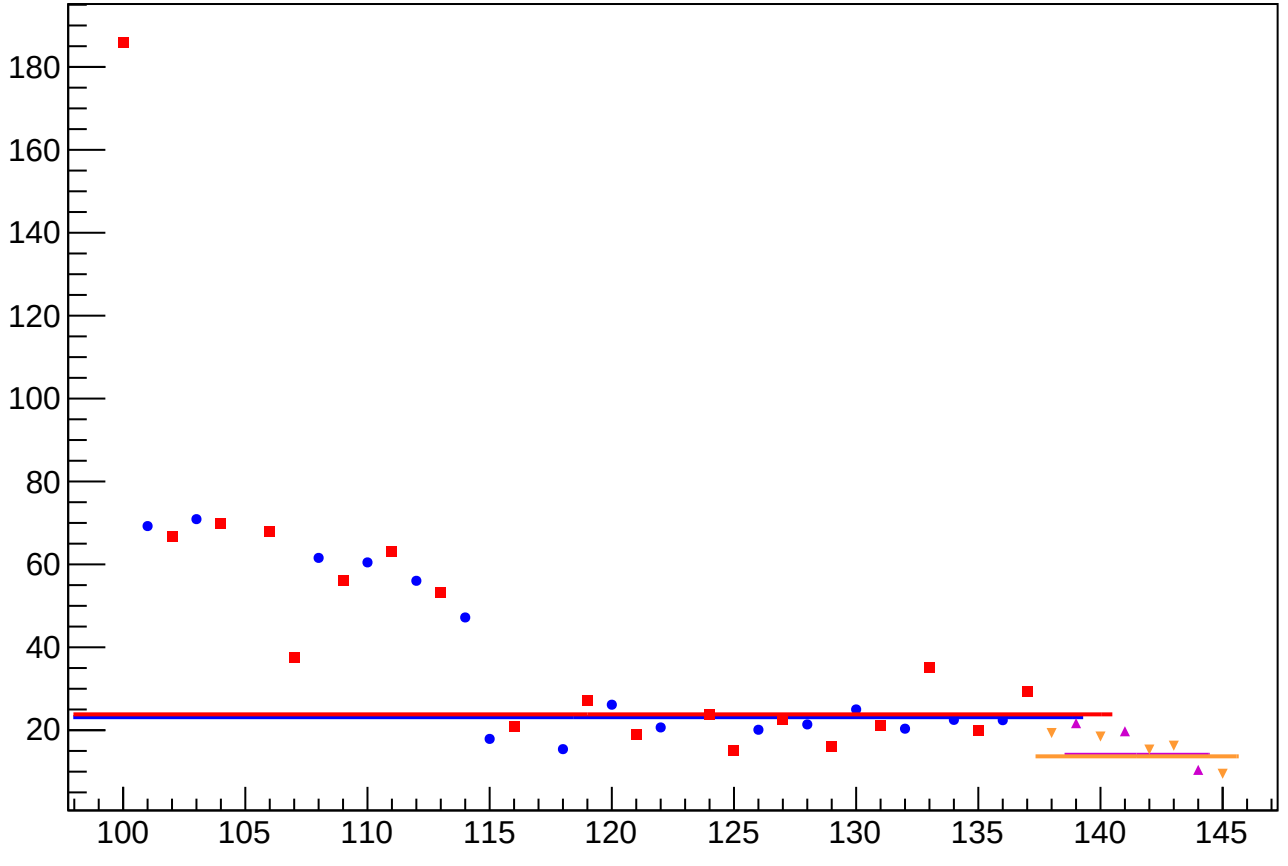
Right: 0.010+/-0.007 $\chi^2$/NDF: 34.1/34

In: 0.010+/-0.007 $\chi^2$/NDF:20.0/18

Out: 0.003+/-0.006 $\chi^2$/NDF:22.0/23

All: 0.006+/-0.005 $\chi^2$/NDF: 42.6/42

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: 13.696+/-0.005 $\chi^2$/NDF:557018.0/4

Right Out: 23.824+/-0.007 $\chi^2$/NDF: 2898863.9/18

Left In: 14.069+/-0.007 $\chi^2$/NDF:539483.3/2

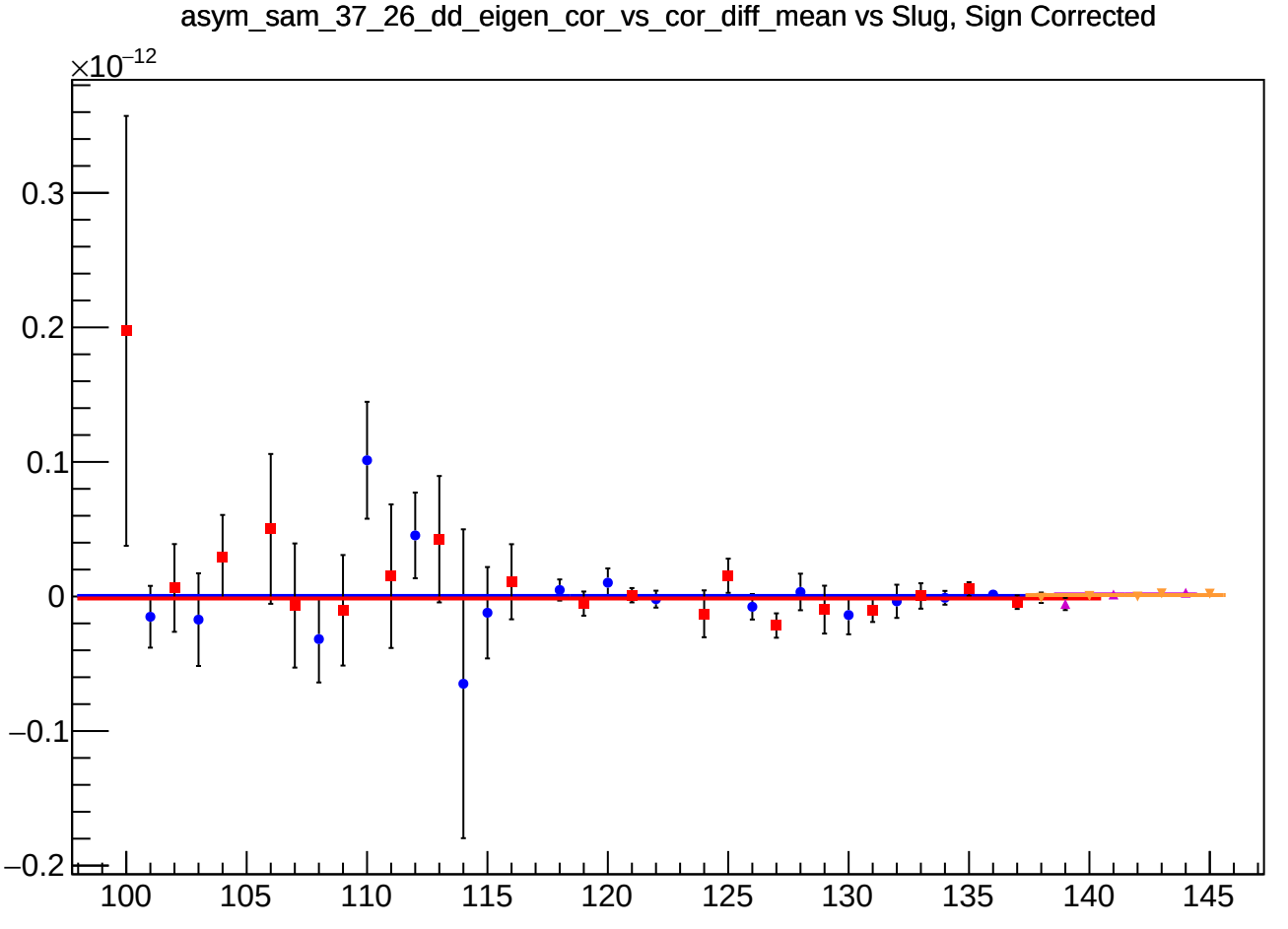
Left: 13.844+/-0.004 $\chi^2$/NDF: 1098385.4/7

Right: 23.476+/-0.005 $\chi^2$/NDF: 5309985.6/34

In: 18.422+/-0.005 $\chi^2$/NDF:3829805.8/18

Out: 17.422+/-0.004 $\chi^2$/NDF:4735469.0/23

All: 17.867+/-0.003 $\chi^2$/NDF: 8589150.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1.0/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.9/2

Left: 0.000+/-0.000 $\chi^2$/NDF: 3.9/7

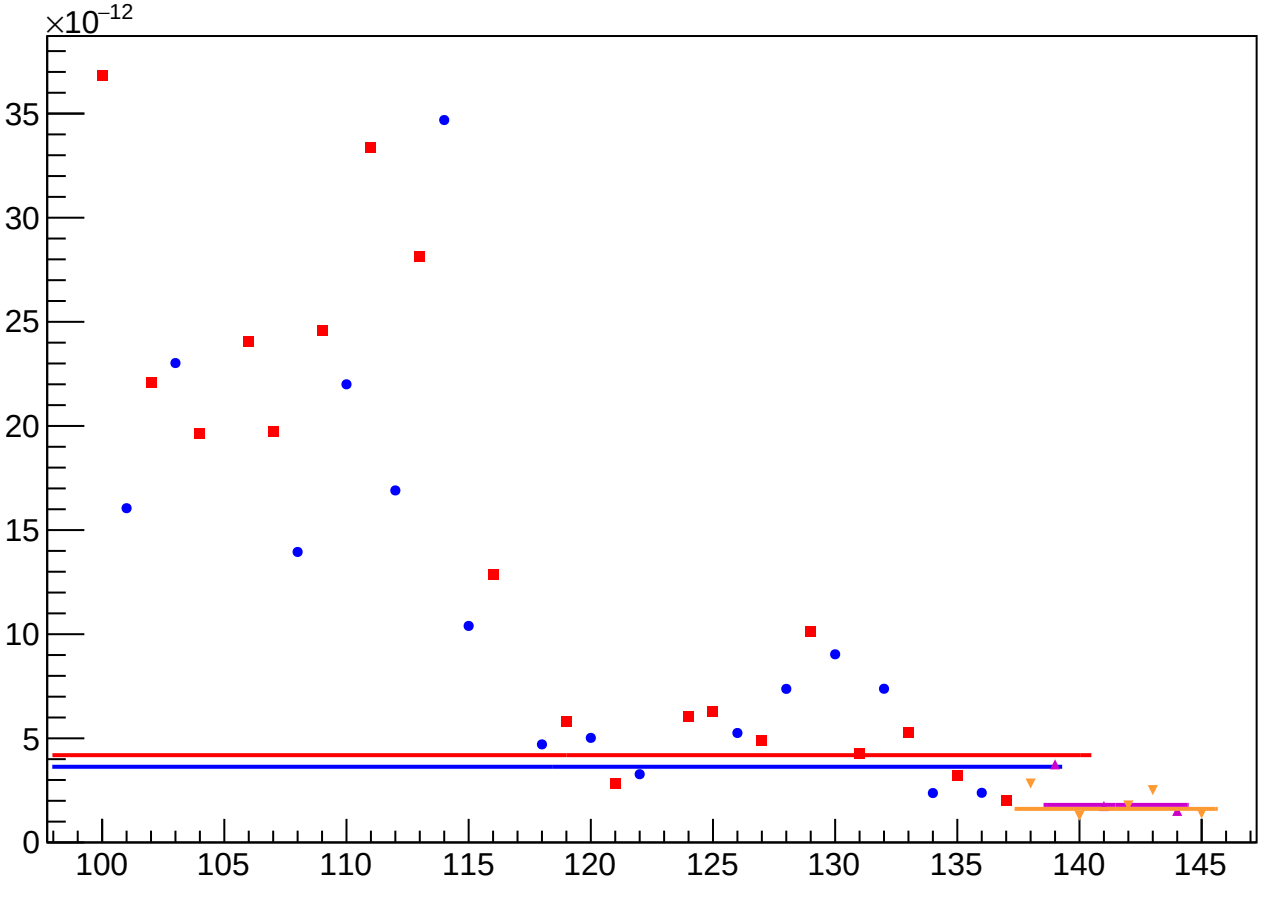
Right: -0.000+/-0.000 $\chi^2$/NDF: 28.9/34

In: 0.000+/-0.000 $\chi^2$/NDF:16.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:17.5/23

All: 0.000+/-0.000 $\chi^2$/NDF: 33.7/42

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3590314.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:474244.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4454808.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:412815.4/2

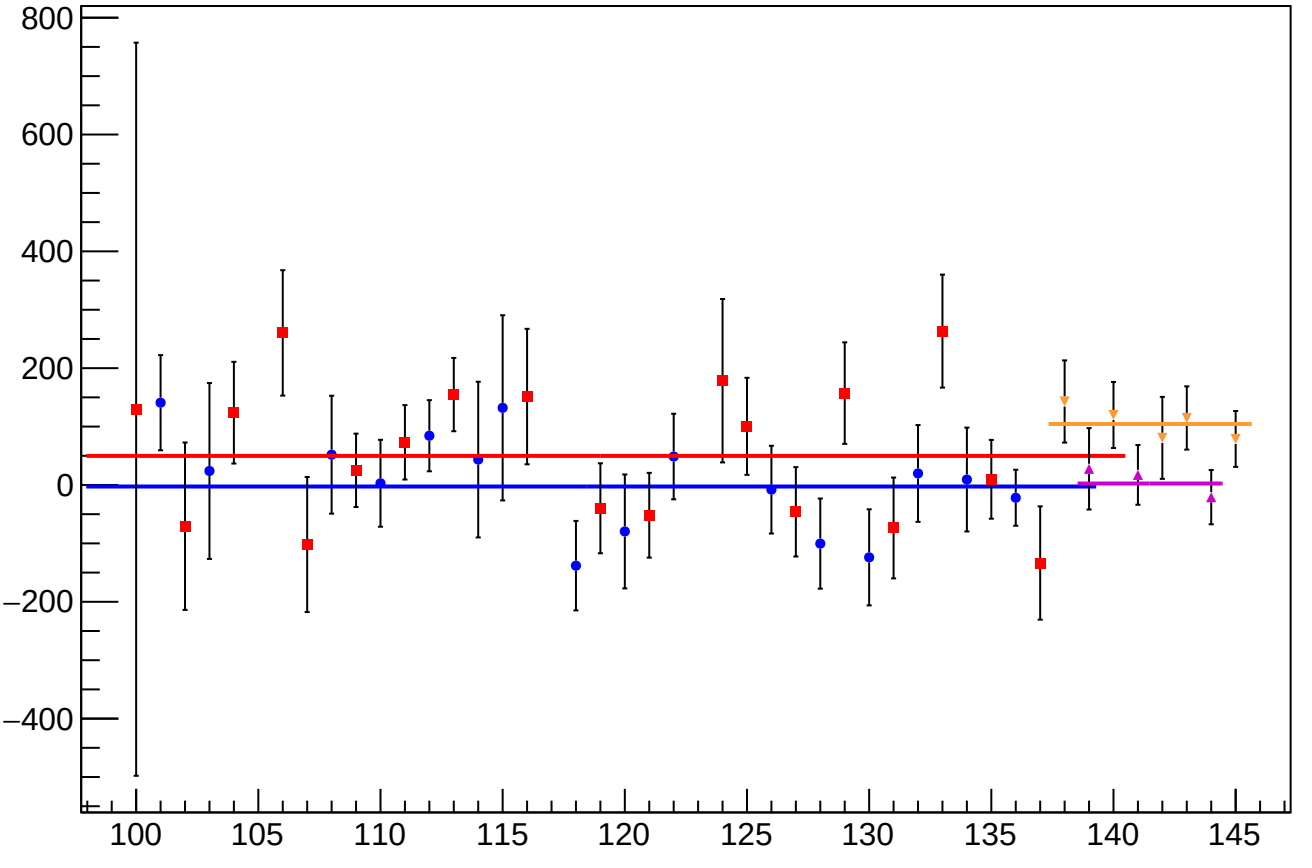
Left: 0.000+/-0.000 $\chi^2$/NDF: 911578.9/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 8108622.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:5099094.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:6927113.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 12123998.7/42




Right In: -2.614+/-19.994 $\chi^2$/NDF: 14.6/15

Left Out: 104.477+/-25.860 $\chi^2$/NDF:0.8/4

Right Out: 49.810+/-19.621 $\chi^2$/NDF: 29.4/18

Left In: 2.506+/-30.823 $\chi^2$/NDF:0.5/2

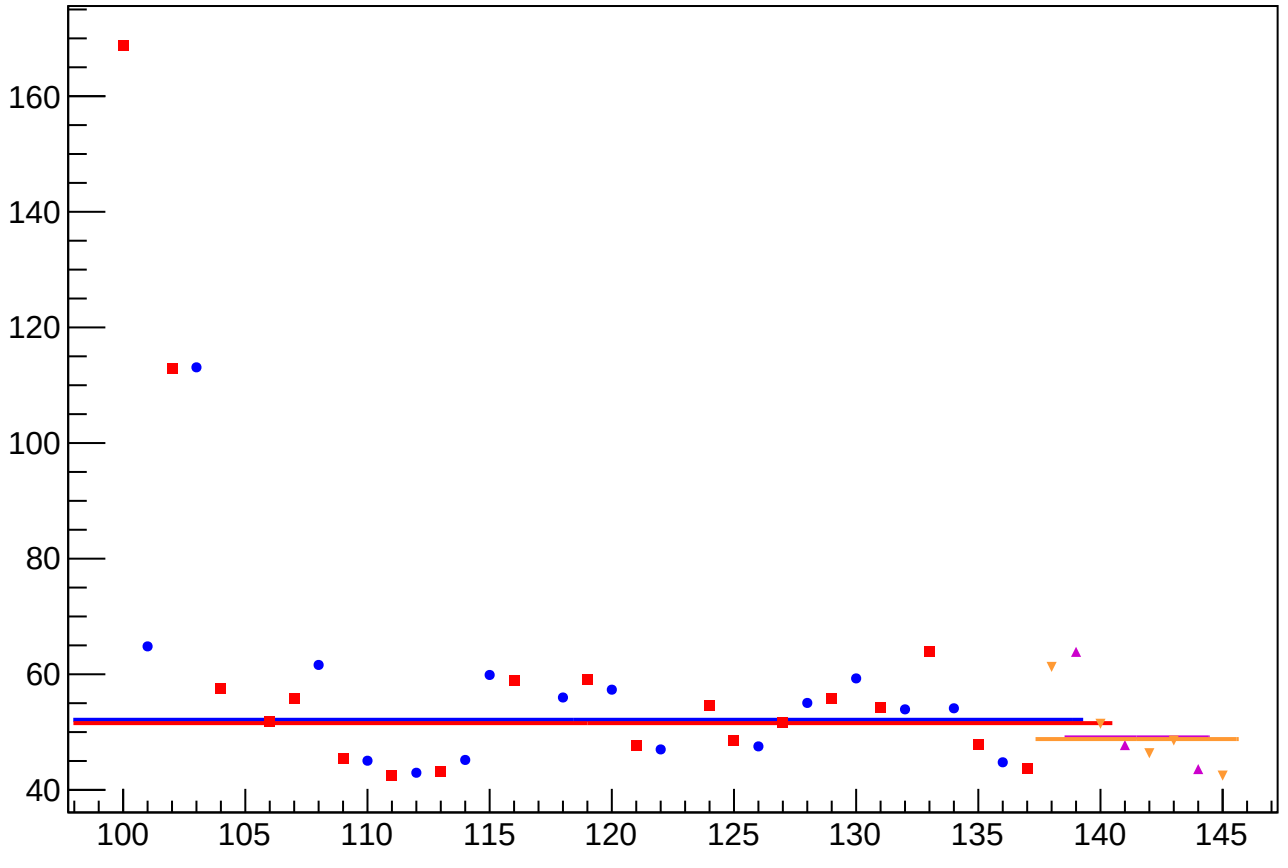
Left: 62.352+/-19.811 $\chi^2$/NDF: 7.7/7

Right: 24.091+/-14.004 $\chi^2$/NDF: 47.4/34

In: -1.098+/-16.774 $\chi^2$/NDF:15.1/18

Out: 69.783+/-15.631 $\chi^2$/NDF:33.0/23

All: 36.840+/-11.436 $\chi^2$/NDF: 57.6/42




Right In: 52.128+/-0.014 $\chi^2$/NDF: 562918.0/15

Left Out: 48.792+/-0.018 $\chi^2$/NDF:104690.4/4

Right Out: 51.550+/-0.014 $\chi^2$/NDF: 639564.9/18

Left In: 49.083+/-0.022 $\chi^2$/NDF:119454.3/2

Left: 48.912+/-0.014 $\chi^2$/NDF: 224249.3/7

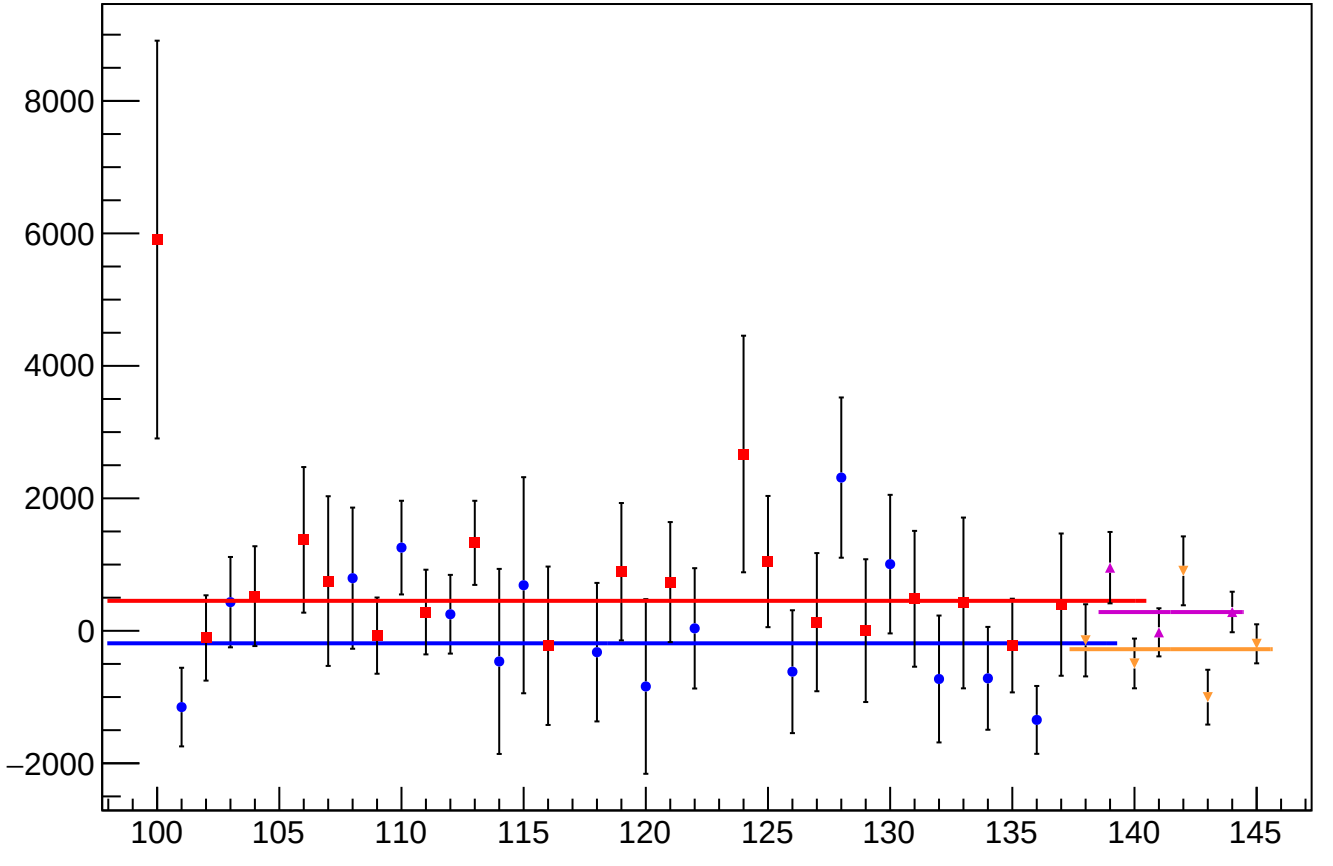
Right: 51.834+/-0.010 $\chi^2$/NDF: 1203336.1/34

In: 51.227+/-0.012 $\chi^2$/NDF:696113.0/18

Out: 50.542+/-0.011 $\chi^2$/NDF:758689.2/23

All: 50.860+/-0.008 $\chi^2$/NDF: 1456583.3/42

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: -277.463+/-178.144 $\chi^2$/NDF:8.7/4

Right Out: 452.540+/-203.918 $\chi^2$/NDF: 11.3/18

Left In: 283.088+/-214.590 $\chi^2$/NDF:2.3/2

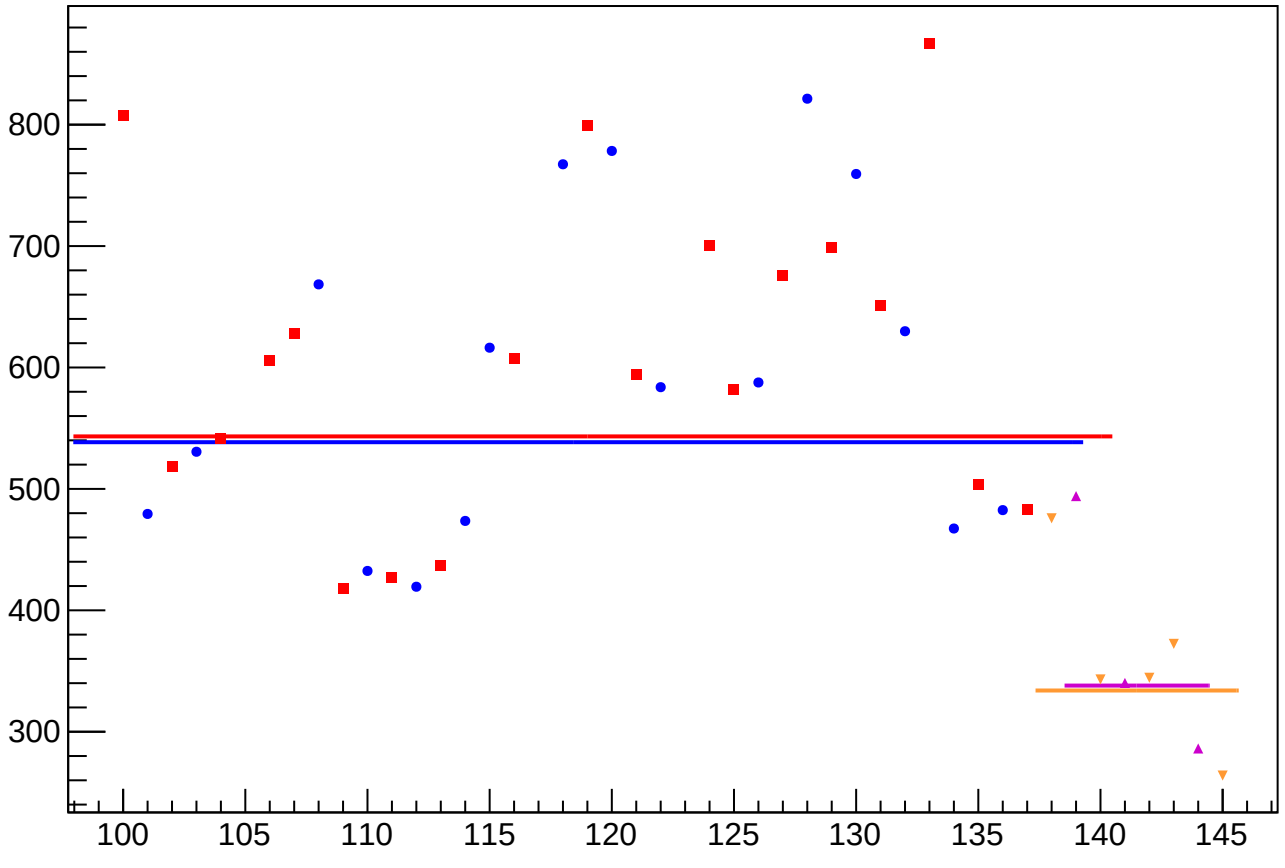
Left: -48.763+/-137.068 $\chi^2$/NDF: 15.0/7

Right: 134.950+/-144.856 $\chi^2$/NDF: 37.6/34

In: 37.417+/-148.537 $\chi^2$/NDF:26.1/18

Out: 38.516+/-134.160 $\chi^2$/NDF:27.3/23

All: 38.022+/-99.561 $\chi^2$/NDF: 53.4/42




Right In: 538.468+/-0.146 $\chi^2$/NDF: 613995.2/15

Left Out: 333.963+/-0.126 $\chi^2$/NDF:267728.1/4

Right Out: 543.242+/-0.144 $\chi^2$/NDF: 637115.5/18

Left In: 338.017+/-0.152 $\chi^2$/NDF:225063.6/2

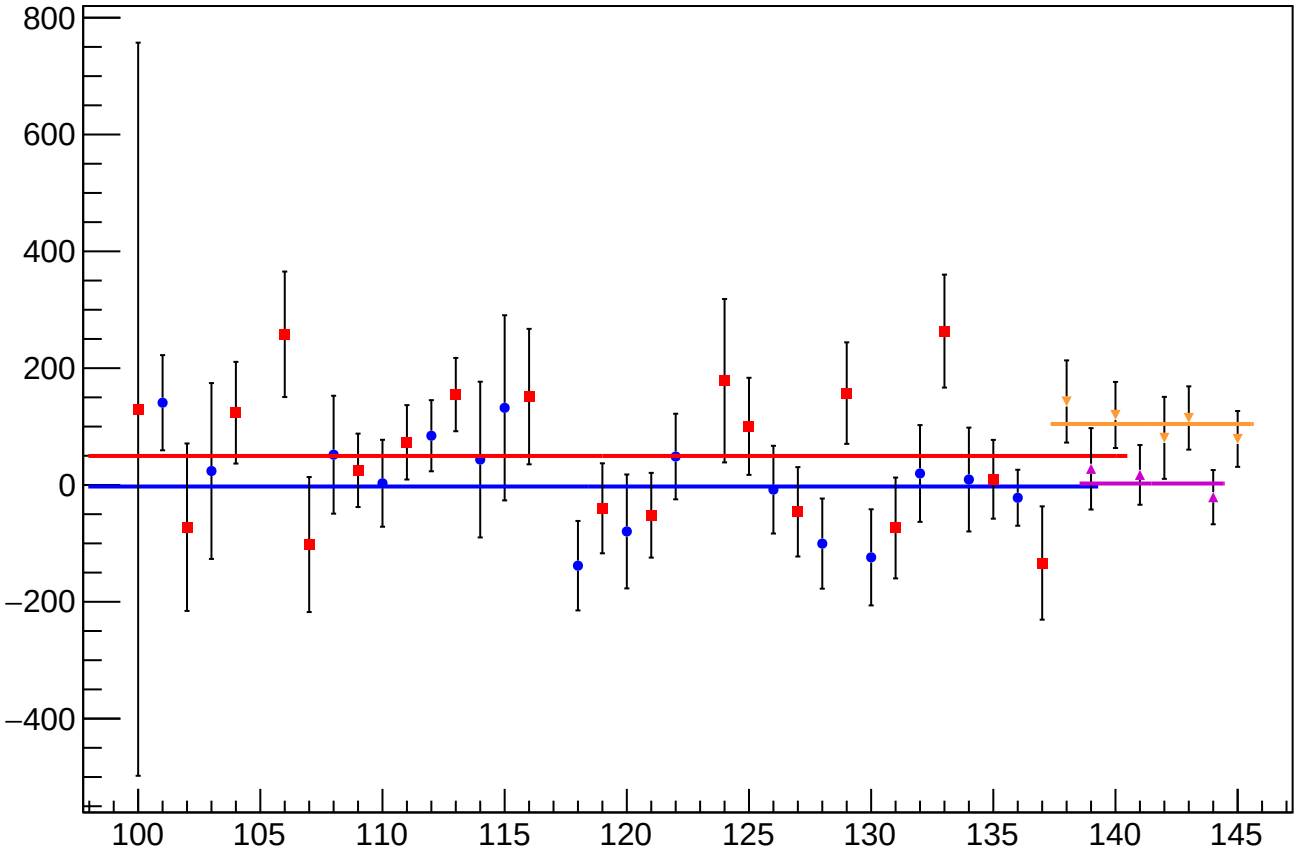
Left: 335.617+/-0.097 $\chi^2$/NDF: 493214.4/7

Right: 540.877+/-0.102 $\chi^2$/NDF: 1251653.7/34

In: 442.427+/-0.105 $\chi^2$/NDF:1748043.9/18

Out: 424.548+/-0.095 $\chi^2$/NDF:2099581.9/23

All: 432.580+/-0.070 $\chi^2$/NDF: 3863583.1/42




Right In: -2.618+/-19.995 $\chi^2$/NDF: 14.6/15

Left Out: 104.482+/-25.860 $\chi^2$/NDF:0.8/4

Right Out: 49.694+/-19.622 $\chi^2$/NDF: 29.3/18

Left In: 2.507+/-30.823 $\chi^2$/NDF:0.5/2

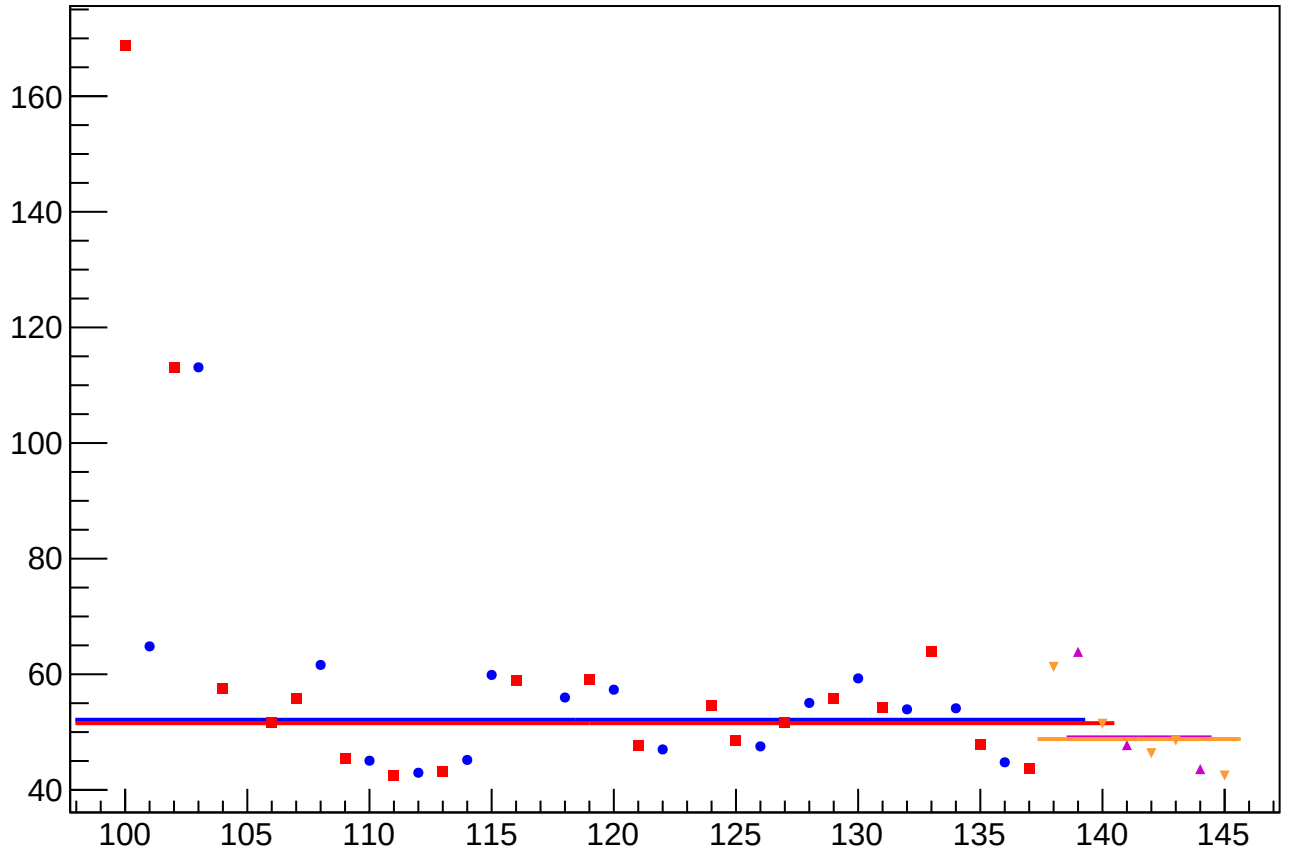
Left: 62.355+/-19.811 $\chi^2$/NDF: 7.7/7

Right: 24.030+/-14.005 $\chi^2$/NDF: 47.4/34

In: -1.101+/-16.774 $\chi^2$/NDF:15.1/18

Out: 69.711+/-15.631 $\chi^2$/NDF:32.9/23

All: 36.800+/-11.436 $\chi^2$/NDF: 57.6/42




Right In: 52.128+/-0.014 $\chi^2$/NDF: 562920.3/15

Left Out: 48.792+/-0.018 $\chi^2$/NDF:104690.4/4

Right Out: 51.540+/-0.014 $\chi^2$/NDF: 639784.7/18

Left In: 49.083+/-0.022 $\chi^2$/NDF:119454.3/2

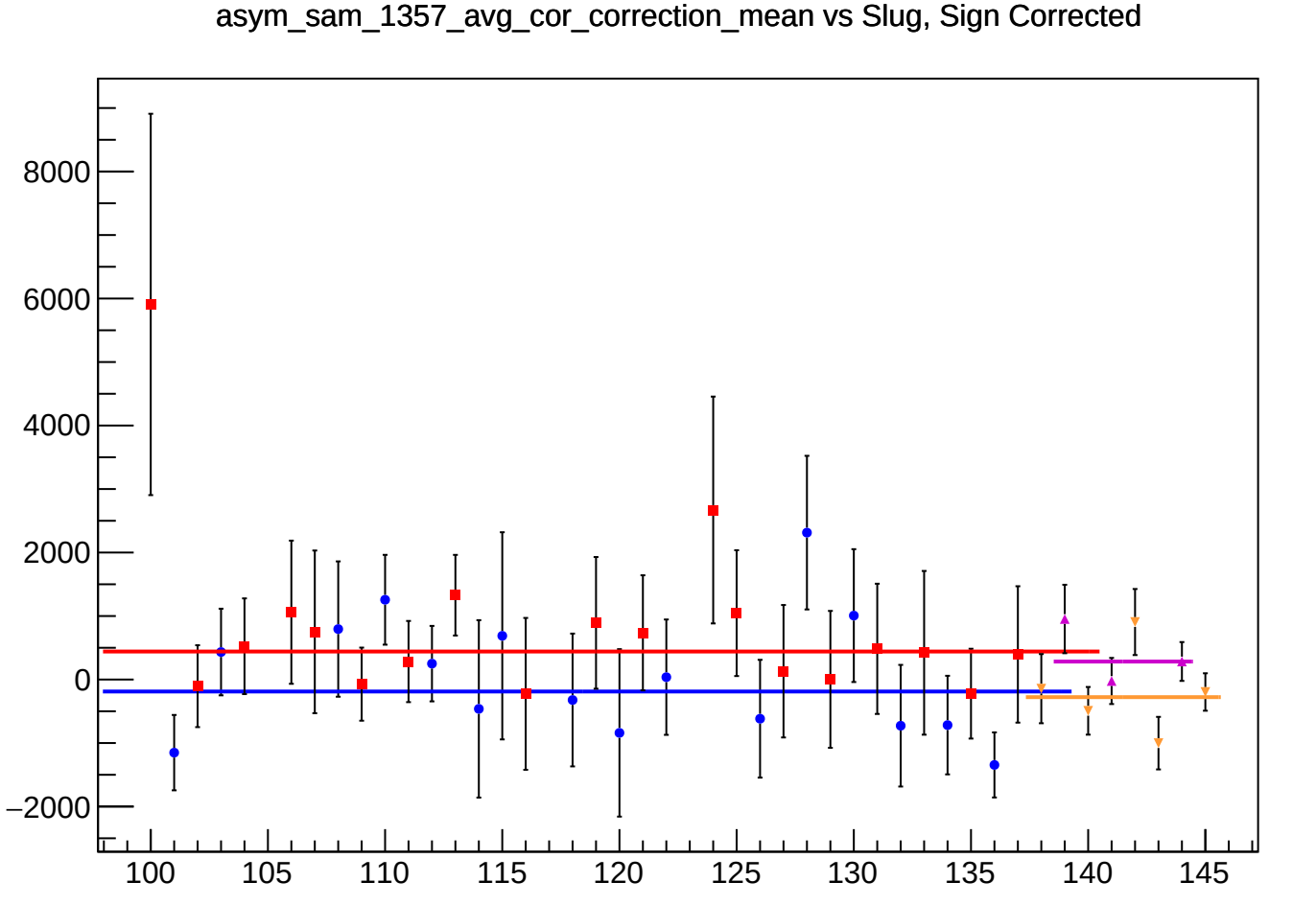
Left: 48.912+/-0.014 $\chi^2$/NDF: 224249.3/7

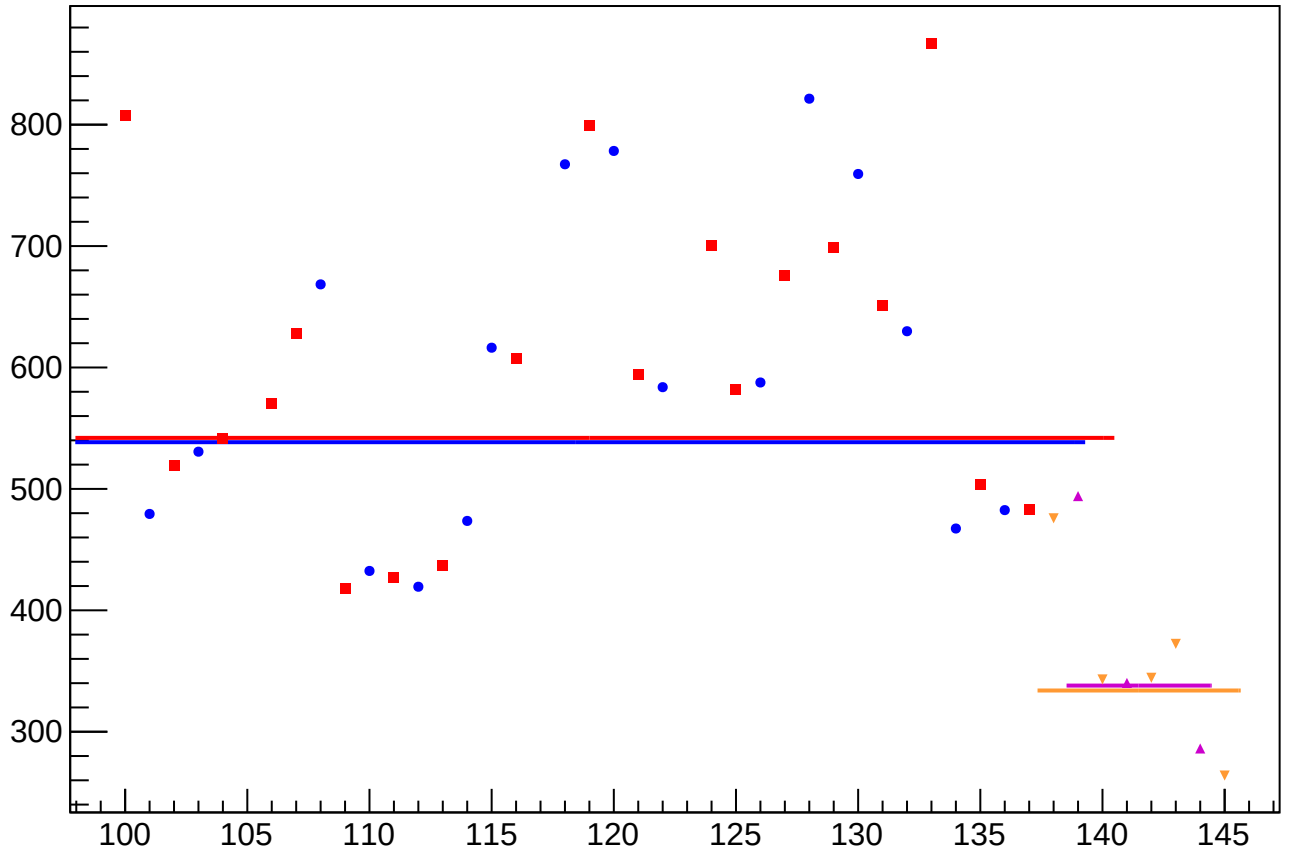
Right: 51.828+/-0.010 $\chi^2$/NDF: 1203588.8/34

In: 51.227+/-0.012 $\chi^2$/NDF:696115.3/18

Out: 50.536+/-0.011 $\chi^2$/NDF:758801.1/23

All: 50.857+/-0.008 $\chi^2$/NDF: 1456731.7/42


asym_sam_1357_avg_cor_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
100
105
110
115
120
125
130
135
140
145
Right In: -188.541+/-205.813 χ²/NDF: 21.4/15
Left Out: -277.458+/-178.144 χ²/NDF:8.7/4
Right Out: 441.171+/-204.111 χ²/NDF: 10.9/18
Left In: 283.093+/-214.590 χ²/NDF:2.3/2
Left: -48.759+/-137.068 χ²/NDF: 15.0/7
Right: 128.930+/-144.926 χ²/NDF: 37.0/34
In: 37.434+/-148.538 χ²/NDF:26.1/18
Out: 33.263+/-134.214 χ²/NDF:26.6/23
All: 35.138+/-99.584 χ²/NDF: 52.8/42




Right In: 538.473+/-0.146 $\chi^2$/NDF: 613991.3/15

Left Out: 333.962+/-0.126 $\chi^2$/NDF:267728.1/4

Right Out: 542.025+/-0.144 $\chi^2$/NDF: 631559.6/18

Left In: 338.018+/-0.152 $\chi^2$/NDF:225063.2/2

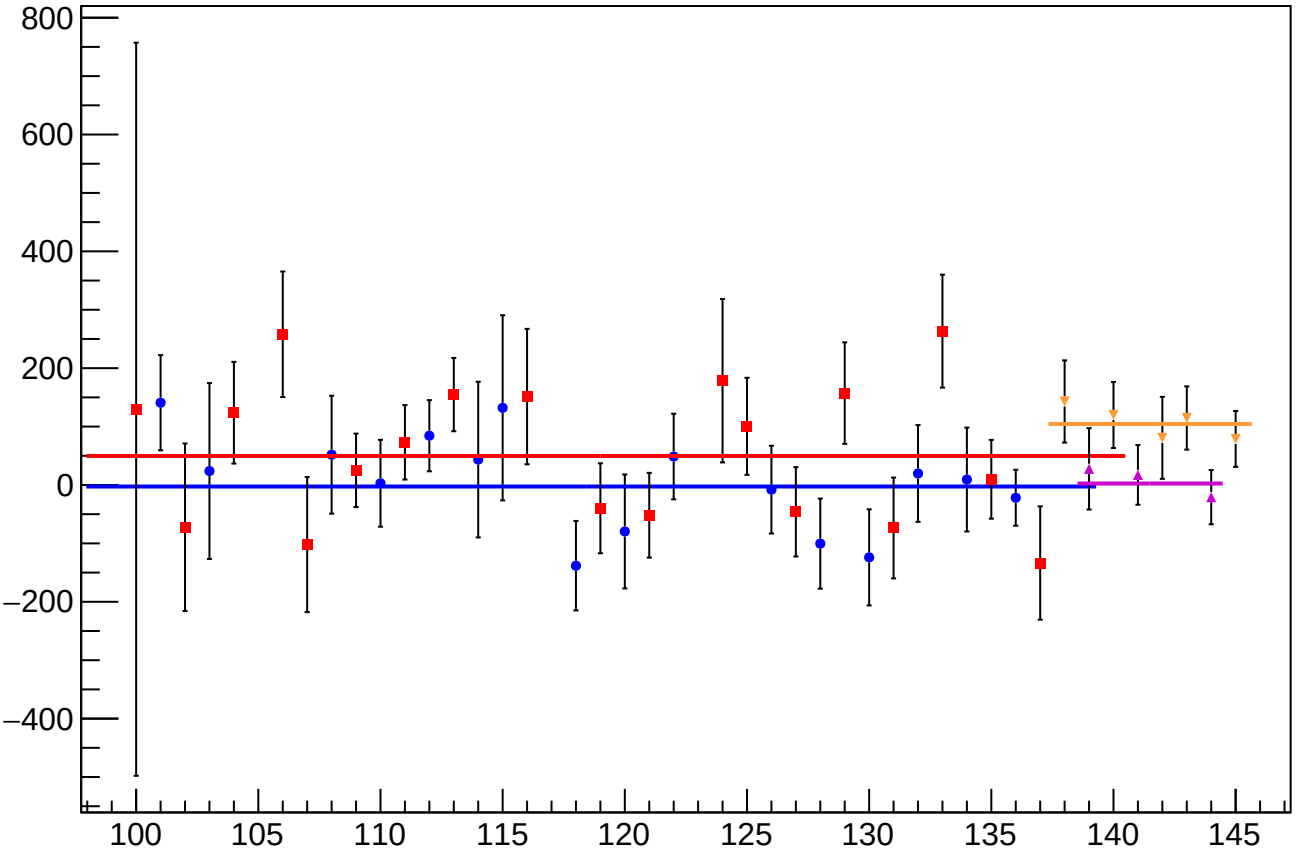
Left: 335.617+/-0.097 $\chi^2$/NDF: 493214.1/7

Right: 540.264+/-0.102 $\chi^2$/NDF: 1245851.3/34

In: 442.428+/-0.105 $\chi^2$/NDF:1748077.6/18

Out: 423.925+/-0.095 $\chi^2$/NDF:2078916.0/23

All: 432.242+/-0.070 $\chi^2$/NDF: 3844080.2/42




Right In: -2.618+/-19.995 $\chi^2$/NDF: 14.6/15

Left Out: 104.482+/-25.860 $\chi^2$/NDF:0.8/4

Right Out: 49.694+/-19.622 $\chi^2$/NDF: 29.3/18

Left In: 2.507+/-30.823 $\chi^2$/NDF:0.5/2

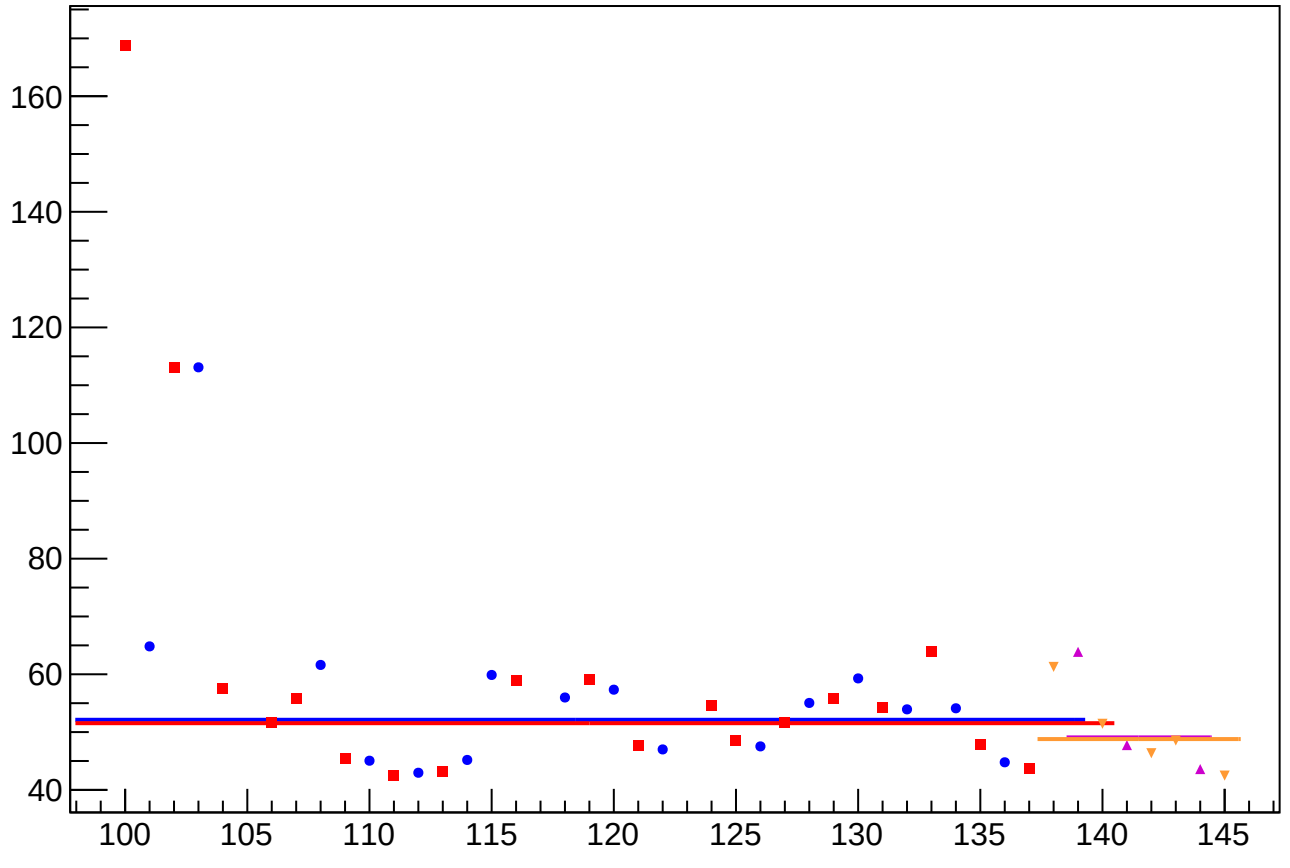
Left: 62.355+/-19.811 $\chi^2$/NDF: 7.7/7

Right: 24.030+/-14.005 $\chi^2$/NDF: 47.4/34

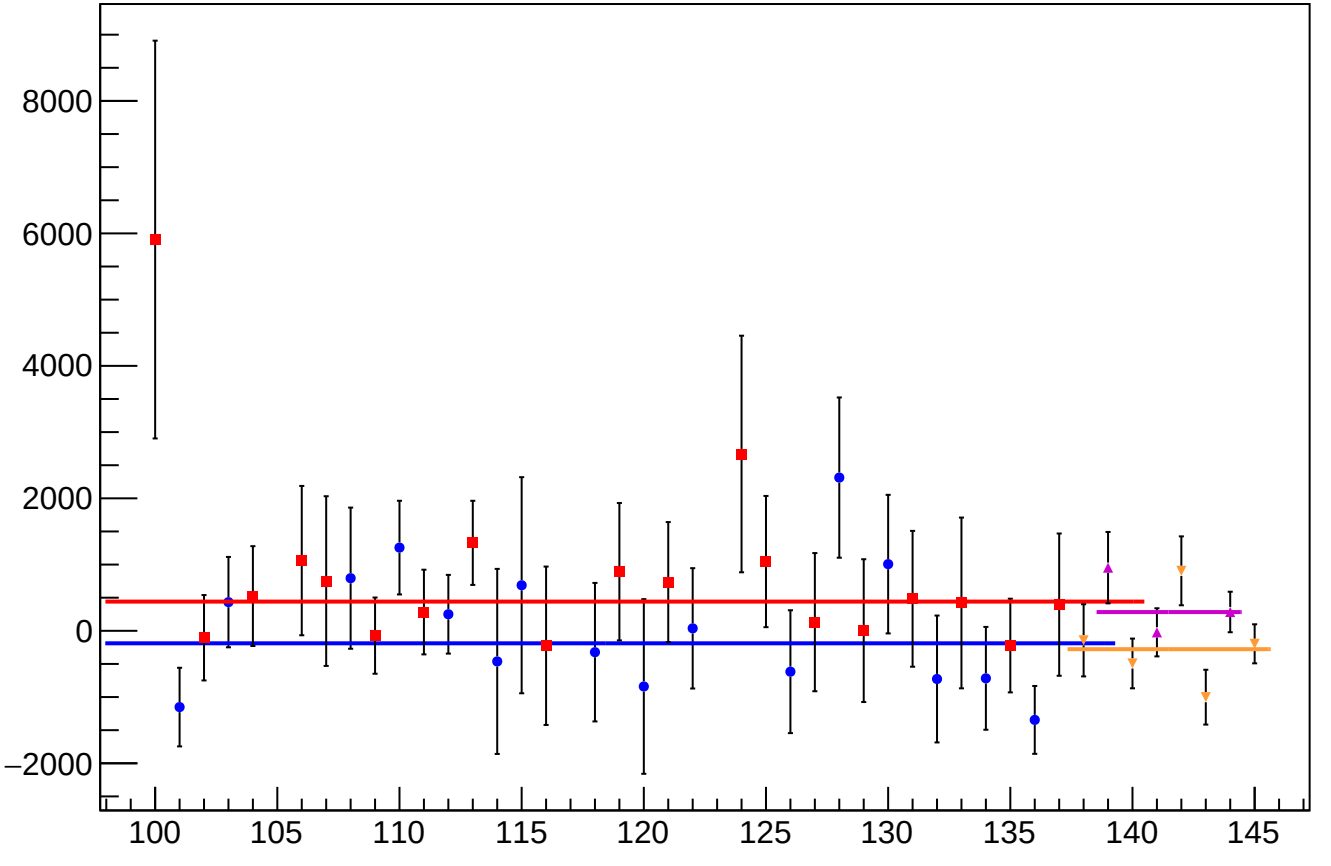
In: -1.101+/-16.774 $\chi^2$/NDF:15.1/18

Out: 69.711+/-15.631 $\chi^2$/NDF:32.9/23

All: 36.800+/-11.436 $\chi^2$/NDF: 57.6/42


eigen_cor_asym_sam_1357_avg_rms vs Slug, Sign Corrected
160
140
120
100
80
60
40
100
105
110
115
120
125
130
135
140
145
Right In: 52.128+/-0.014 χ²/NDF: 562920.3/15
Left Out: 48.792+/-0.018 χ²/NDF:104690.4/4
Right Out: 51.540+/-0.014 χ²/NDF: 639784.7/18
Left In: 49.083+/-0.022 χ²/NDF:119454.3/2
Left: 48.912+/-0.014 χ²/NDF: 224249.3/7
Right: 51.828+/-0.010 χ²/NDF: 1203588.8/34
In: 51.227+/-0.012 χ²/NDF:696115.3/18
Out: 50.536+/-0.011 χ²/NDF:758801.1/23
All: 50.857+/-0.008 χ²/NDF: 1456731.7/42

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: -277.458+/-178.144 $\chi^2$/NDF:8.7/4

Right Out: 441.171+/-204.111 $\chi^2$/NDF: 10.9/18

Left In: 283.093+/-214.590 $\chi^2$/NDF:2.3/2

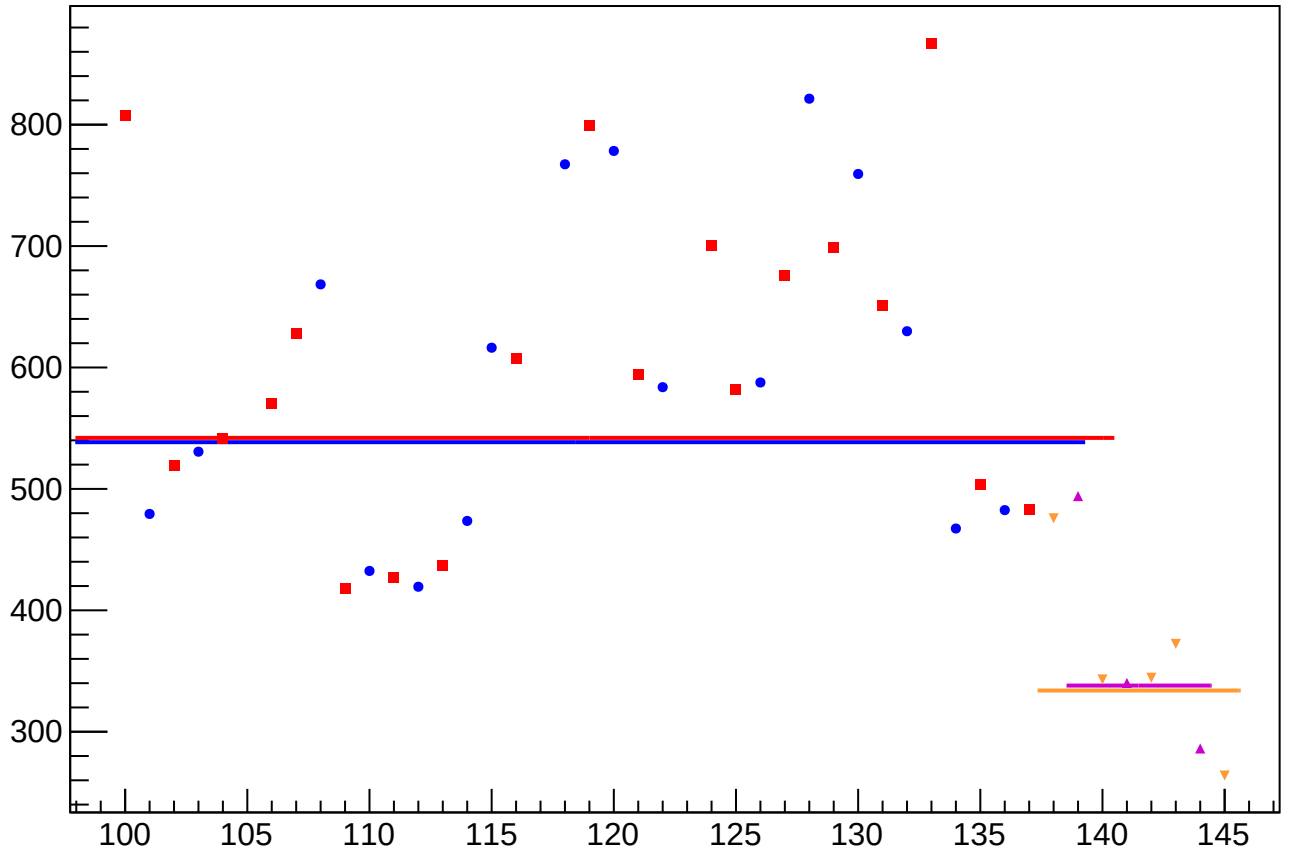
Left: -48.759+/-137.068 $\chi^2$/NDF: 15.0/7

Right: 128.930+/-144.926 $\chi^2$/NDF: 37.0/34

In: 37.434+/-148.538 $\chi^2$/NDF:26.1/18

Out: 33.263+/-134.214 $\chi^2$/NDF:26.6/23

All: 35.138+/-99.584 $\chi^2$/NDF: 52.8/42




Right In: 538.473+/-0.146 $\chi^2$/NDF: 613991.3/15

Left Out: 333.962+/-0.126 $\chi^2$/NDF:267728.1/4

Right Out: 542.025+/-0.144 $\chi^2$/NDF: 631559.6/18

Left In: 338.018+/-0.152 $\chi^2$/NDF:225063.2/2

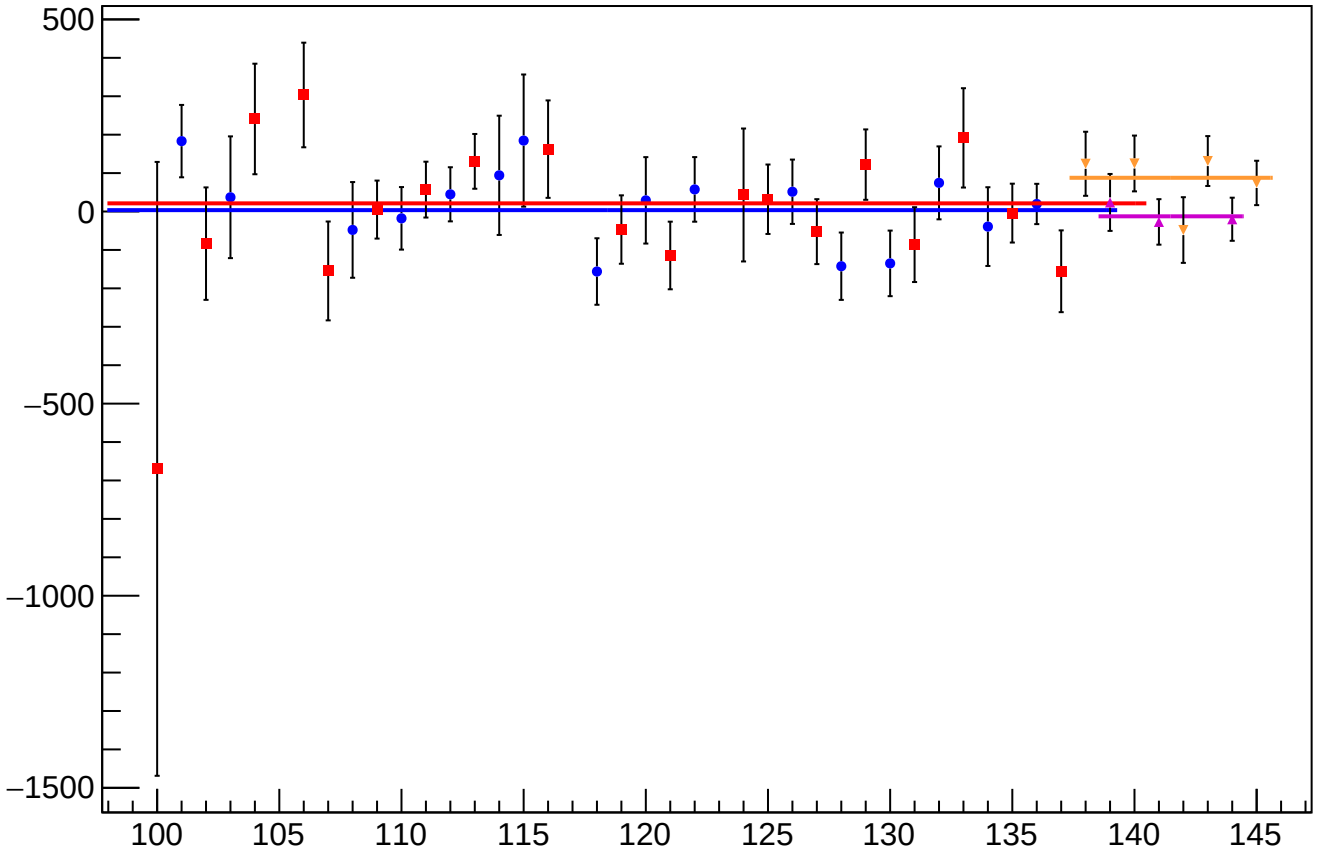
Left: 335.617+/-0.097 $\chi^2$/NDF: 493214.1/7

Right: 540.264+/-0.102 $\chi^2$/NDF: 1245851.3/34

In: 442.428+/-0.105 $\chi^2$/NDF:1748077.6/18

Out: 423.925+/-0.095 $\chi^2$/NDF:2078916.0/23

All: 432.242+/-0.070 $\chi^2$/NDF: 3844080.2/42




Right In: 3.597+/-22.480 $\chi^2$/NDF: 16.1/15

Left Out: 87.805+/-31.507 $\chi^2$/NDF:3.5/4

Right Out: 21.253+/-22.769 $\chi^2$/NDF: 24.4/18

Left In: -12.486+/-35.687 $\chi^2$/NDF:0.3/2

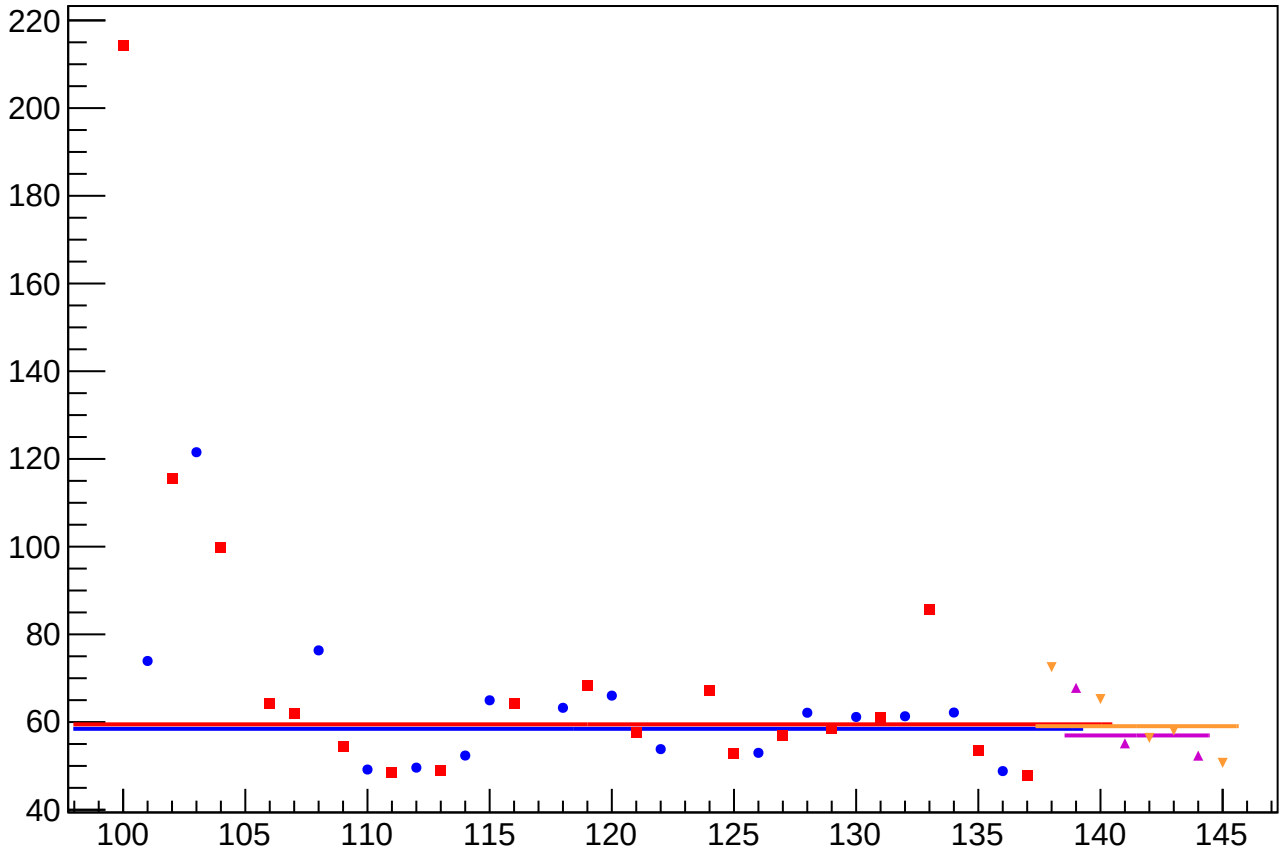
Left: 43.875+/-23.619 $\chi^2$/NDF: 8.2/7

Right: 12.313+/-15.997 $\chi^2$/NDF: 40.9/34

In: -0.972+/-19.021 $\chi^2$/NDF:16.6/18

Out: 44.085+/-18.454 $\chi^2$/NDF:30.8/23

All: 22.238+/-13.245 $\chi^2$/NDF: 50.3/42




Right In: 58.465+/-0.016 $\chi^2$/NDF: 582984.2/15

Left Out: 59.063+/-0.022 $\chi^2$/NDF:110996.1/4

Right Out: 59.484+/-0.016 $\chi^2$/NDF: 784880.1/18

Left In: 56.952+/-0.025 $\chi^2$/NDF:58206.3/2

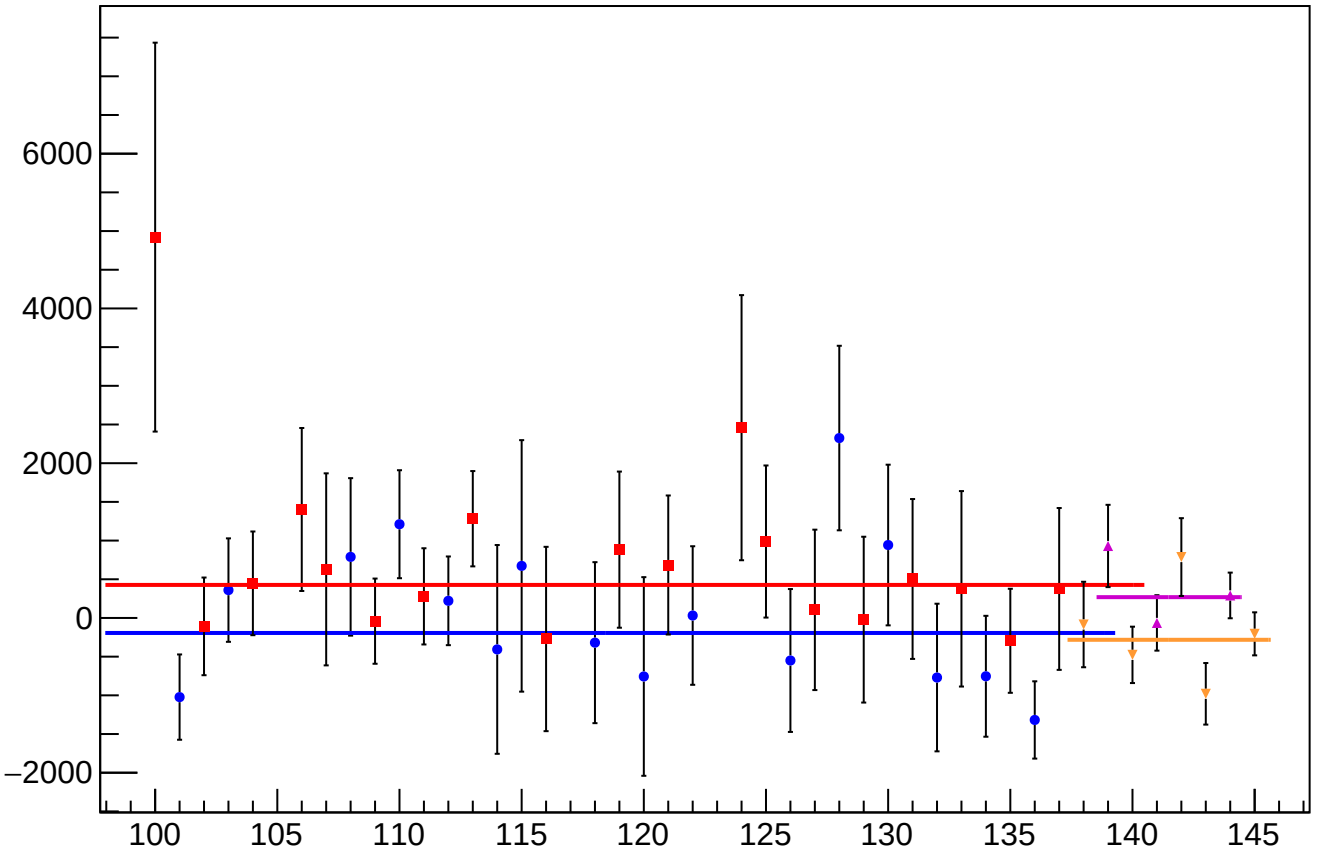
Left: 58.139+/-0.017 $\chi^2$/NDF: 173133.4/7

Right: 58.968+/-0.011 $\chi^2$/NDF: 1369891.4/34

In: 58.036+/-0.013 $\chi^2$/NDF:643763.8/18

Out: 59.340+/-0.013 $\chi^2$/NDF:896110.8/23

All: 58.707+/-0.009 $\chi^2$/NDF: 1544716.5/42




Right In: -193.899+/-200.604 $\chi^2$/NDF: 20.8/15

Left Out: -282.252+/-171.447 $\chi^2$/NDF:8.1/4

Right Out: 426.977+/-197.005 $\chi^2$/NDF: 11.3/18

Left In: 268.887+/-209.359 $\chi^2$/NDF:2.4/2

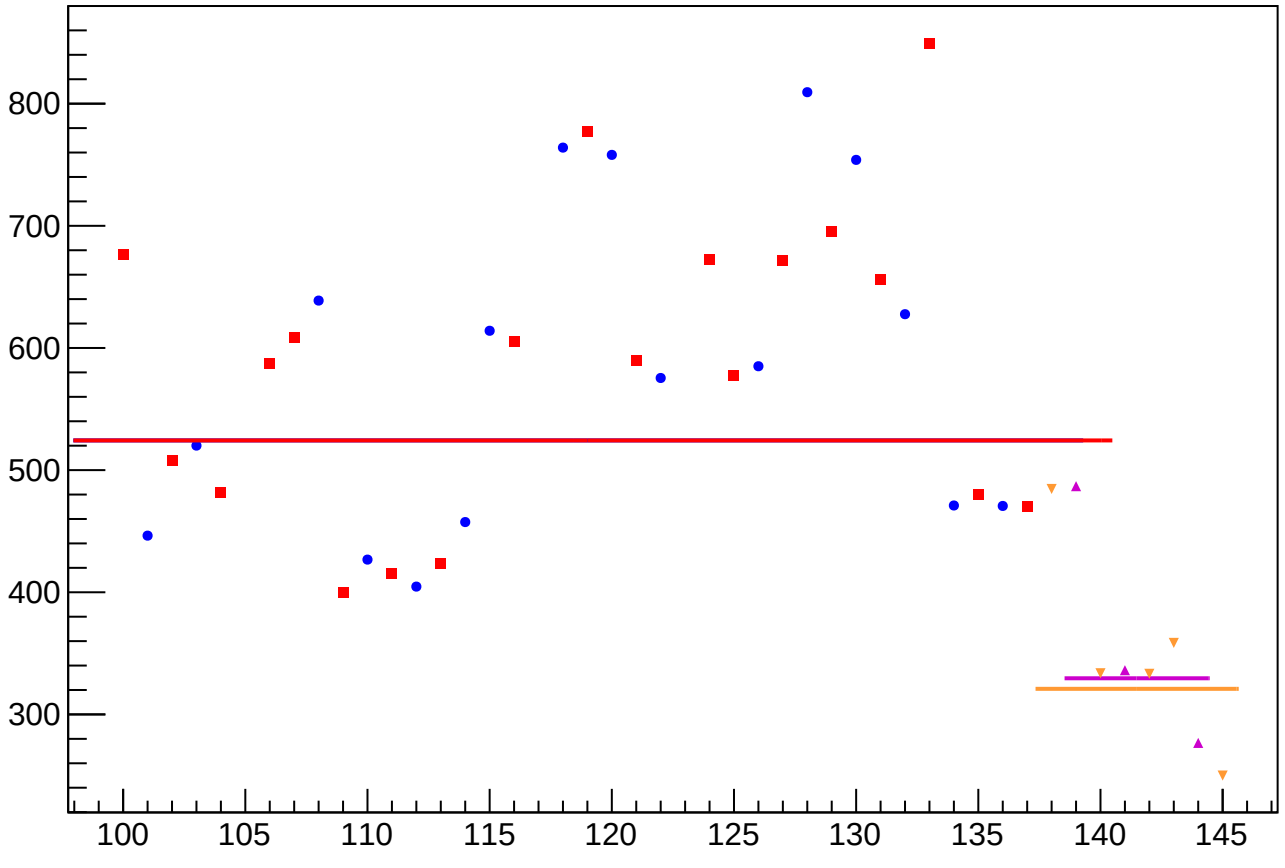
Left: -61.014+/-132.645 $\chi^2$/NDF: 14.7/7

Right: 122.158+/-140.559 $\chi^2$/NDF: 37.0/34

In: 27.615+/-144.845 $\chi^2$/NDF:25.8/18

Out: 23.402+/-129.330 $\chi^2$/NDF:26.8/23

All: 25.271+/-96.471 $\chi^2$/NDF: 52.5/42




Right In: 524.326+/-0.142 $\chi^2$/NDF: 658488.5/15

Left Out: 320.954+/-0.121 $\chi^2$/NDF:327433.3/4

Right Out: 524.306+/-0.139 $\chi^2$/NDF: 686061.2/18

Left In: 329.587+/-0.148 $\chi^2$/NDF:239916.4/2

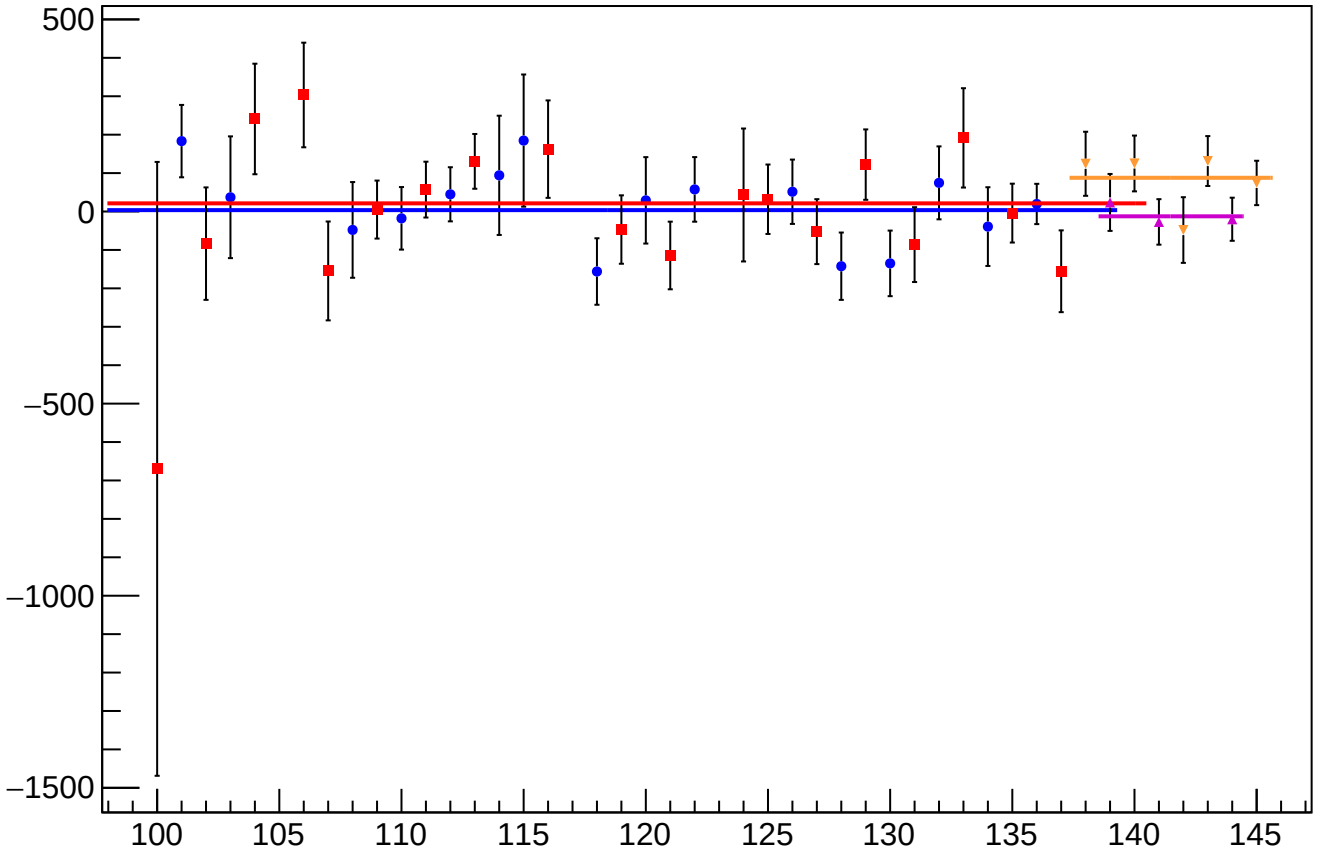
Left: 324.419+/-0.094 $\chi^2$/NDF: 569385.2/7

Right: 524.316+/-0.099 $\chi^2$/NDF: 1344549.7/34

In: 431.114+/-0.102 $\chi^2$/NDF:1800559.6/18

Out: 408.592+/-0.091 $\chi^2$/NDF:2226079.7/23

All: 418.583+/-0.068 $\chi^2$/NDF: 4053543.5/42




Right In: 3.597+/-22.480 $\chi^2$/NDF: 16.1/15

Left Out: 87.804+/-31.507 $\chi^2$/NDF:3.5/4

Right Out: 21.251+/-22.769 $\chi^2$/NDF: 24.4/18

Left In: -12.486+/-35.687 $\chi^2$/NDF:0.3/2

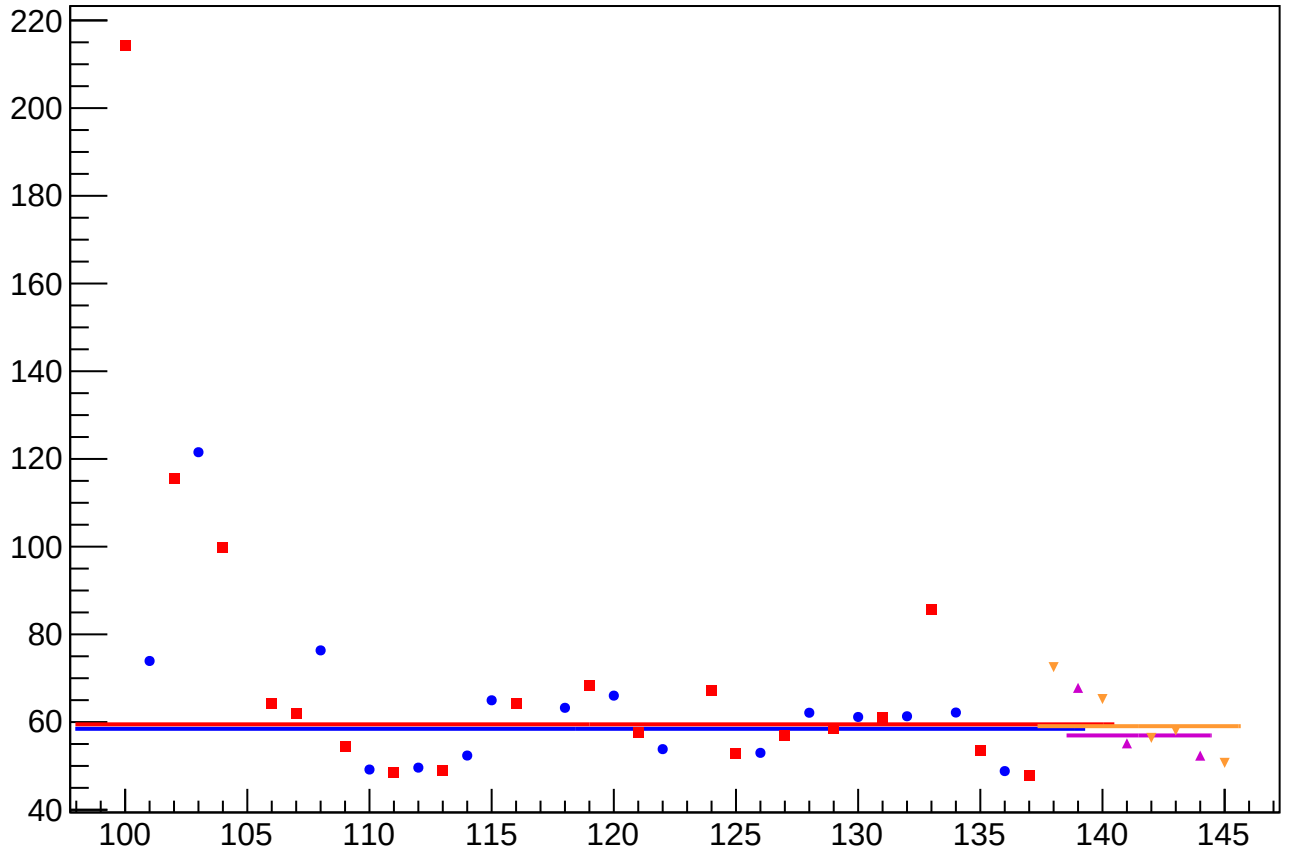
Left: 43.875+/-23.619 $\chi^2$/NDF: 8.2/7

Right: 12.312+/-15.997 $\chi^2$/NDF: 40.9/34

In: -0.972+/-19.021 $\chi^2$/NDF:16.6/18

Out: 44.084+/-18.454 $\chi^2$/NDF:30.8/23

All: 22.237+/-13.245 $\chi^2$/NDF: 50.3/42




Right In: 58.466+/-0.016 $\chi^2$/NDF: 582980.6/15

Left Out: 59.063+/-0.022 $\chi^2$/NDF:110995.7/4

Right Out: 59.484+/-0.016 $\chi^2$/NDF: 784880.2/18

Left In: 56.953+/-0.025 $\chi^2$/NDF:58205.2/2

Left: 58.139+/-0.017 $\chi^2$/NDF: 173132.1/7

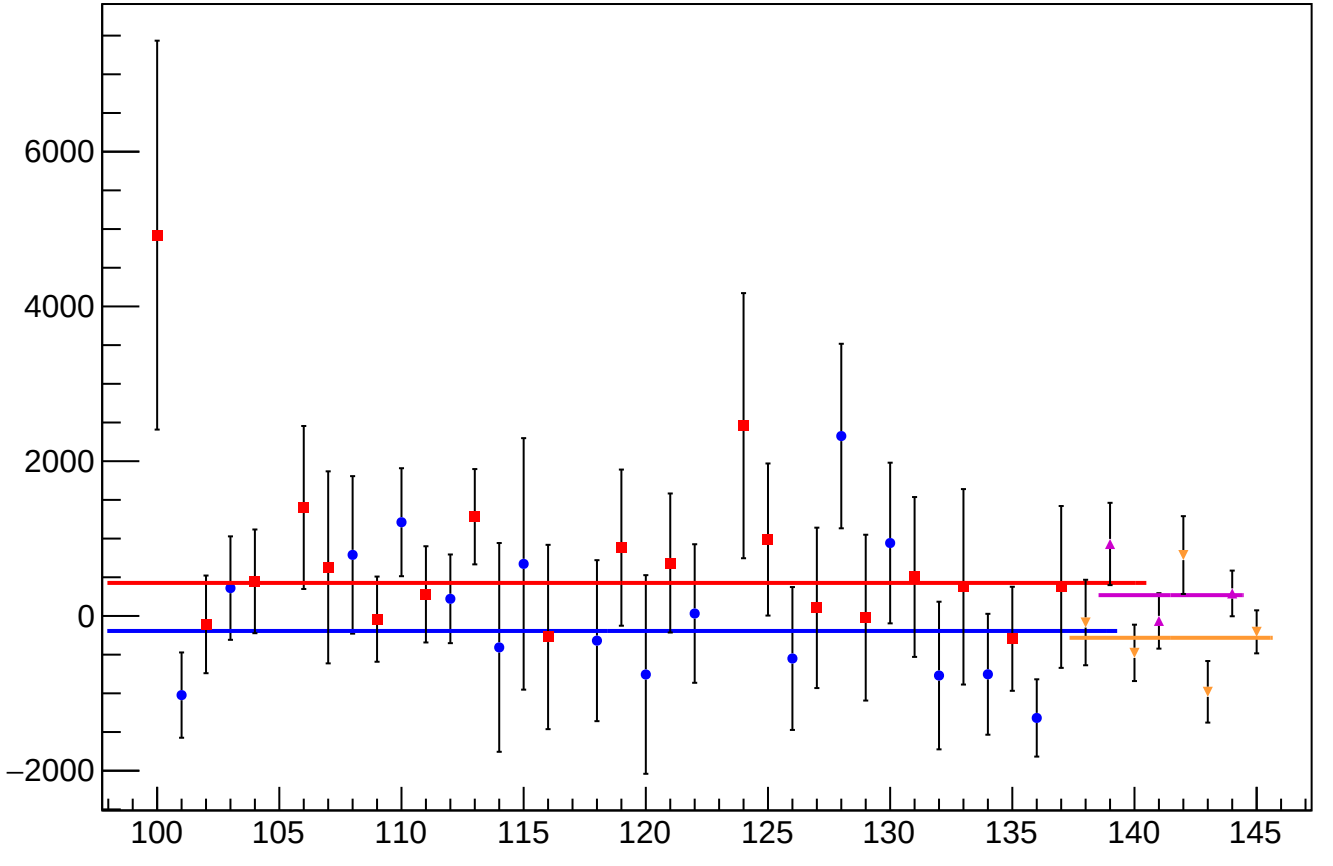
Right: 58.968+/-0.011 $\chi^2$/NDF: 1369888.0/34

In: 58.036+/-0.013 $\chi^2$/NDF:643758.7/18

Out: 59.340+/-0.013 $\chi^2$/NDF:896110.3/23

All: 58.708+/-0.009 $\chi^2$/NDF: 1544711.3/42

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: -282.253+/-171.447 $\chi^2$/NDF:8.1/4

Right Out: 426.976+/-197.005 $\chi^2$/NDF: 11.3/18

Left In: 268.887+/-209.359 $\chi^2$/NDF:2.4/2

Left: -61.015+/-132.645 $\chi^2$/NDF: 14.7/7

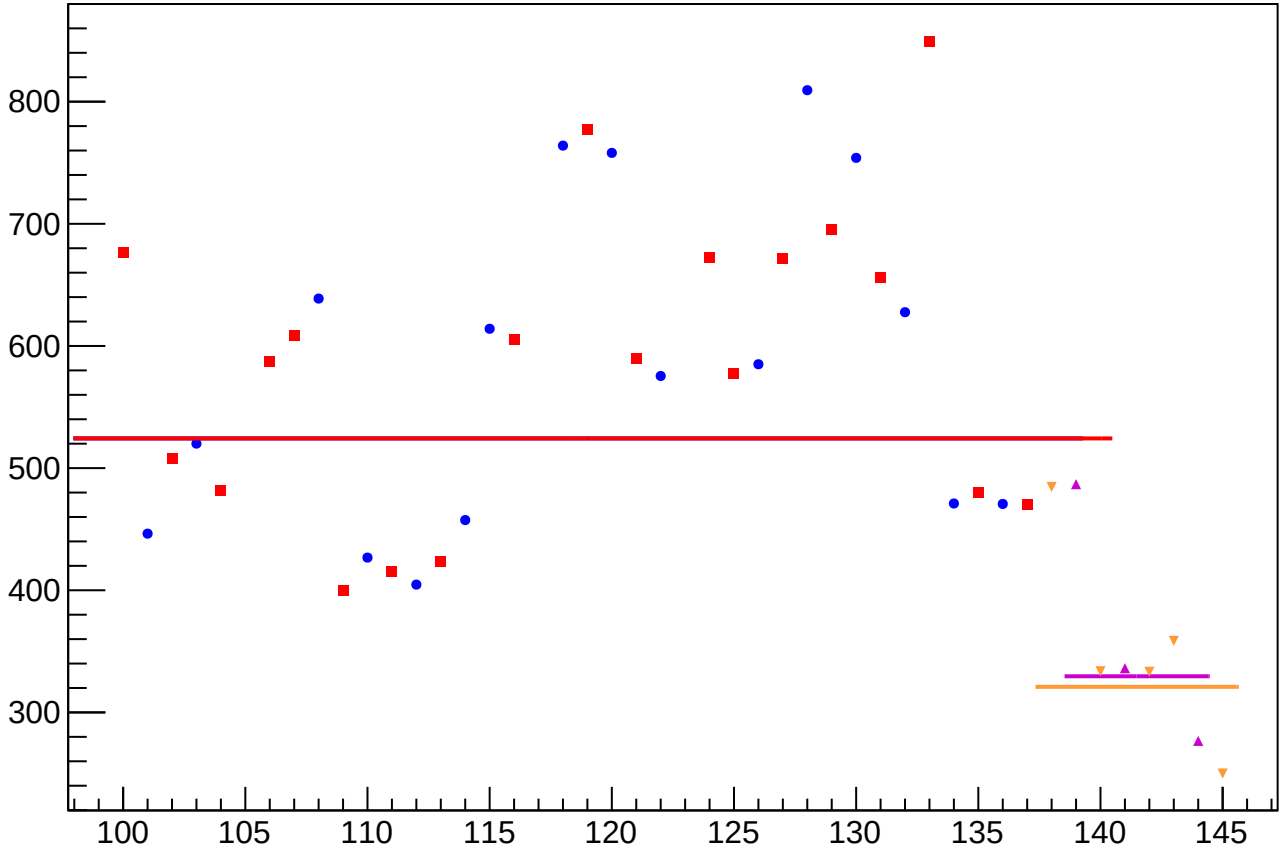
Right: 122.157+/-140.558 $\chi^2$/NDF: 37.0/34

In: 27.615+/-144.844 $\chi^2$/NDF:25.8/18

Out: 23.401+/-129.330 $\chi^2$/NDF:26.8/23

All: 25.270+/-96.470 $\chi^2$/NDF: 52.5/42

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: 320.954+/-0.121 $\chi^2$/NDF:327434.0/4

Right Out: 524.305+/-0.139 $\chi^2$/NDF: 686063.6/18

Left In: 329.587+/-0.148 $\chi^2$/NDF:239917.3/2

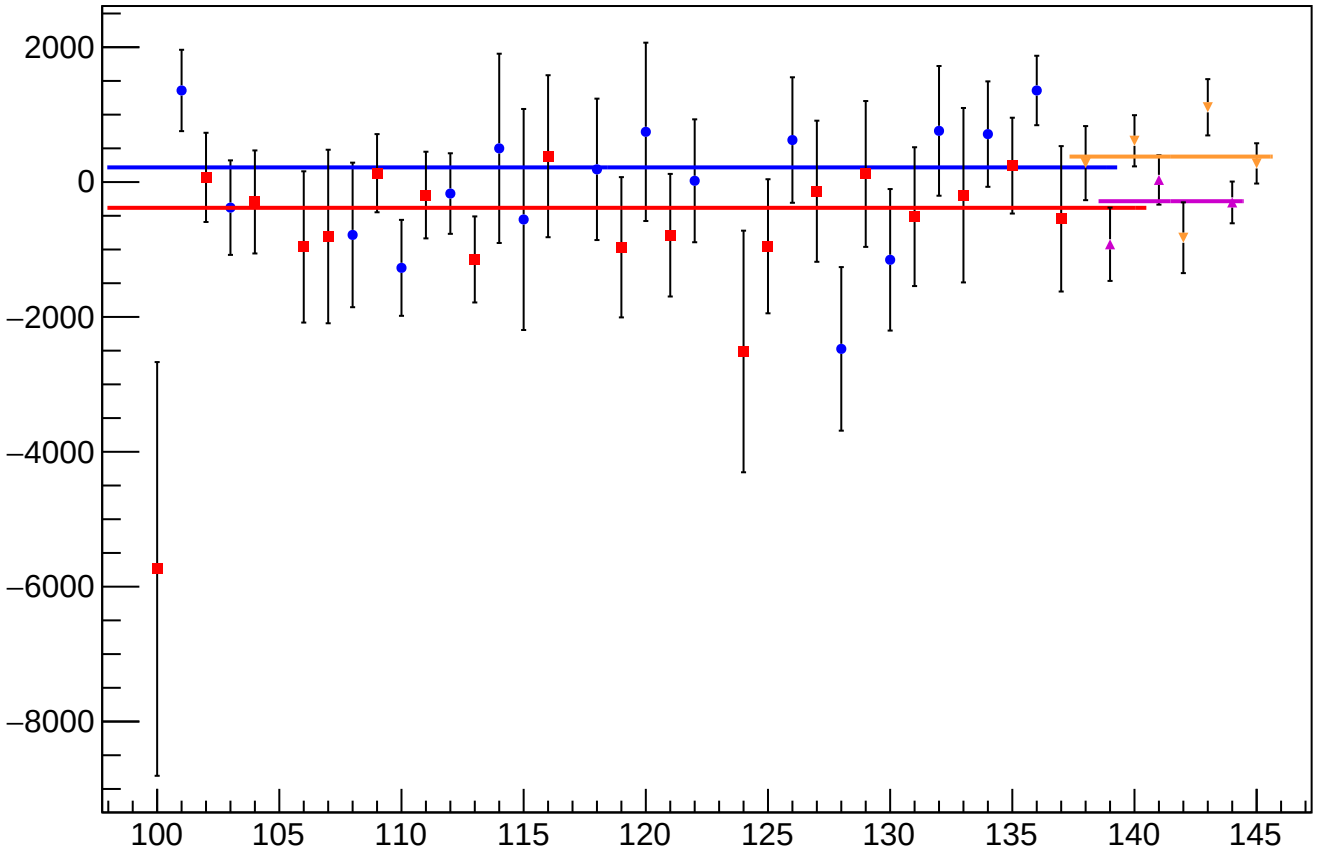
Left: 324.419+/-0.094 $\chi^2$/NDF: 569386.8/7

Right: 524.315+/-0.099 $\chi^2$/NDF: 1344557.5/34

In: 431.113+/-0.102 $\chi^2$/NDF:1800558.0/18

Out: 408.592+/-0.091 $\chi^2$/NDF:2226074.7/23

All: 418.582+/-0.068 $\chi^2$/NDF: 4053536.8/42




Right In: 217.756+/-207.492 $\chi^2$/NDF: 22.9/15

Left Out: 378.073+/-180.123 $\chi^2$/NDF:8.9/4

Right Out: -381.836+/-205.585 $\chi^2$/NDF: 10.0/18

Left In: -283.769+/-216.872 $\chi^2$/NDF:2.1/2

Left: 107.896+/-138.564 $\chi^2$/NDF: 16.5/7

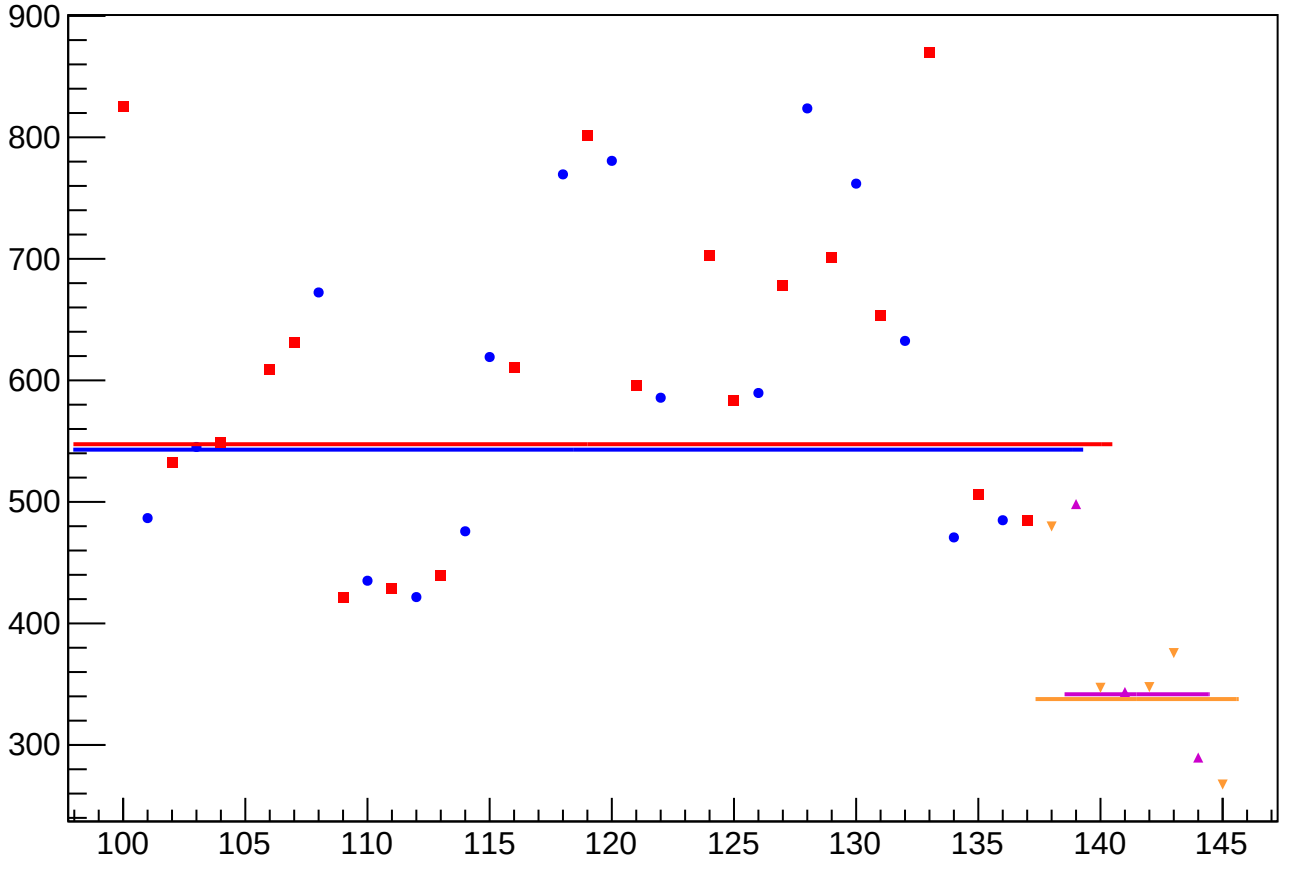
Right: -84.807+/-146.040 $\chi^2$/NDF: 37.1/34

In: -21.927+/-149.925 $\chi^2$/NDF:27.8/18

Out: 48.065+/-135.479 $\chi^2$/NDF:26.6/23

All: 16.603+/-100.519 $\chi^2$/NDF: 54.5/42

# asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 542.997+/-0.147 $\chi^2$/NDF: 605250.7/15

Left Out: 337.767+/-0.127 $\chi^2$/NDF:262849.3/4

Right Out: 547.465+/-0.145 $\chi^2$/NDF: 630284.0/18

Left In: 341.718+/-0.153 $\chi^2$/NDF:222483.8/2

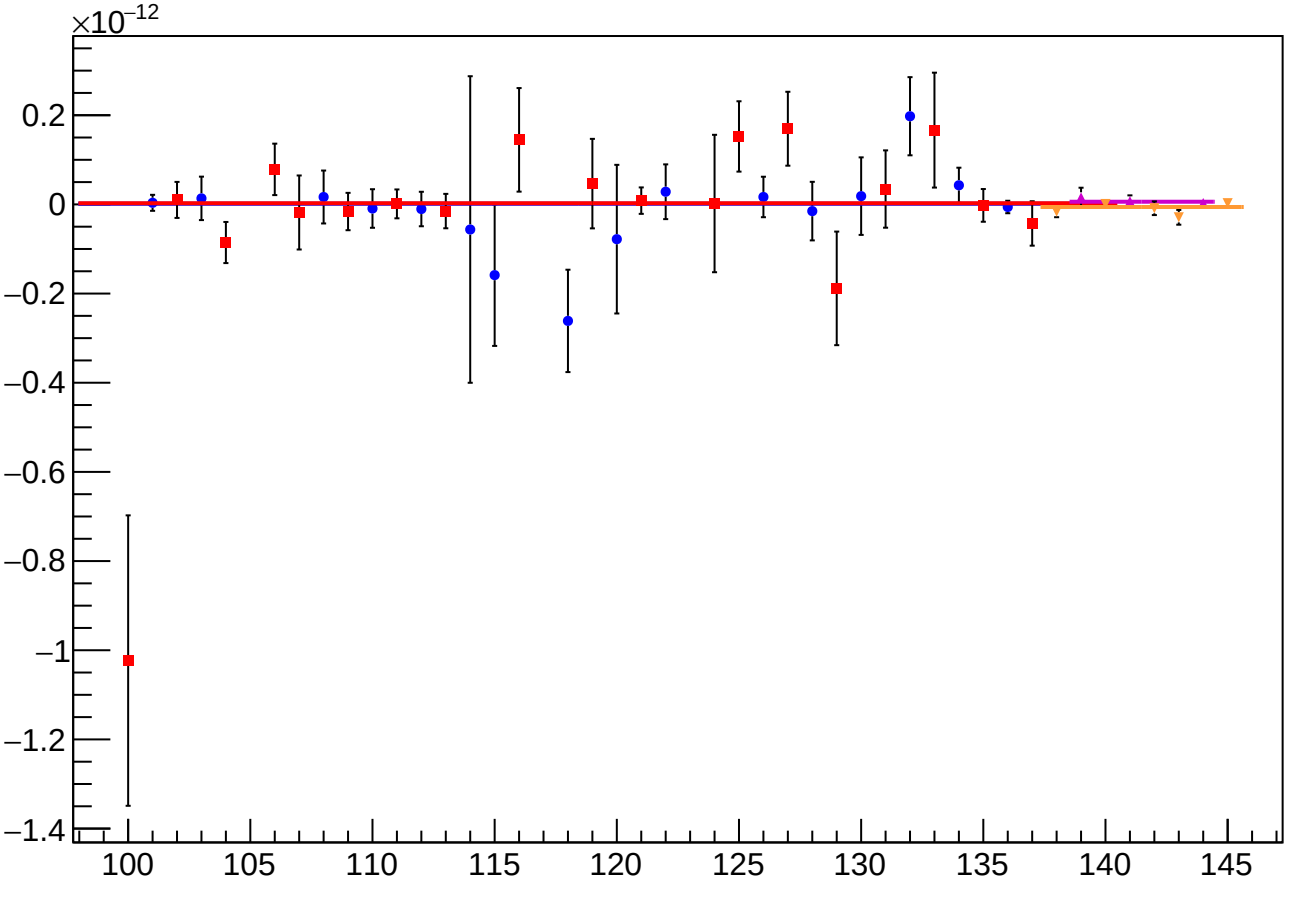
Left: 339.380+/-0.098 $\chi^2$/NDF: 485726.0/7

Right: 545.252+/-0.103 $\chi^2$/NDF: 1236002.5/34

In: 446.805+/-0.106 $\chi^2$/NDF:1727167.7/18

Out: 428.833+/-0.096 $\chi^2$/NDF:2070307.7/23

All: 436.911+/-0.071 $\chi^2$/NDF: 3813295.3/42




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

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 30.1/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.3/2

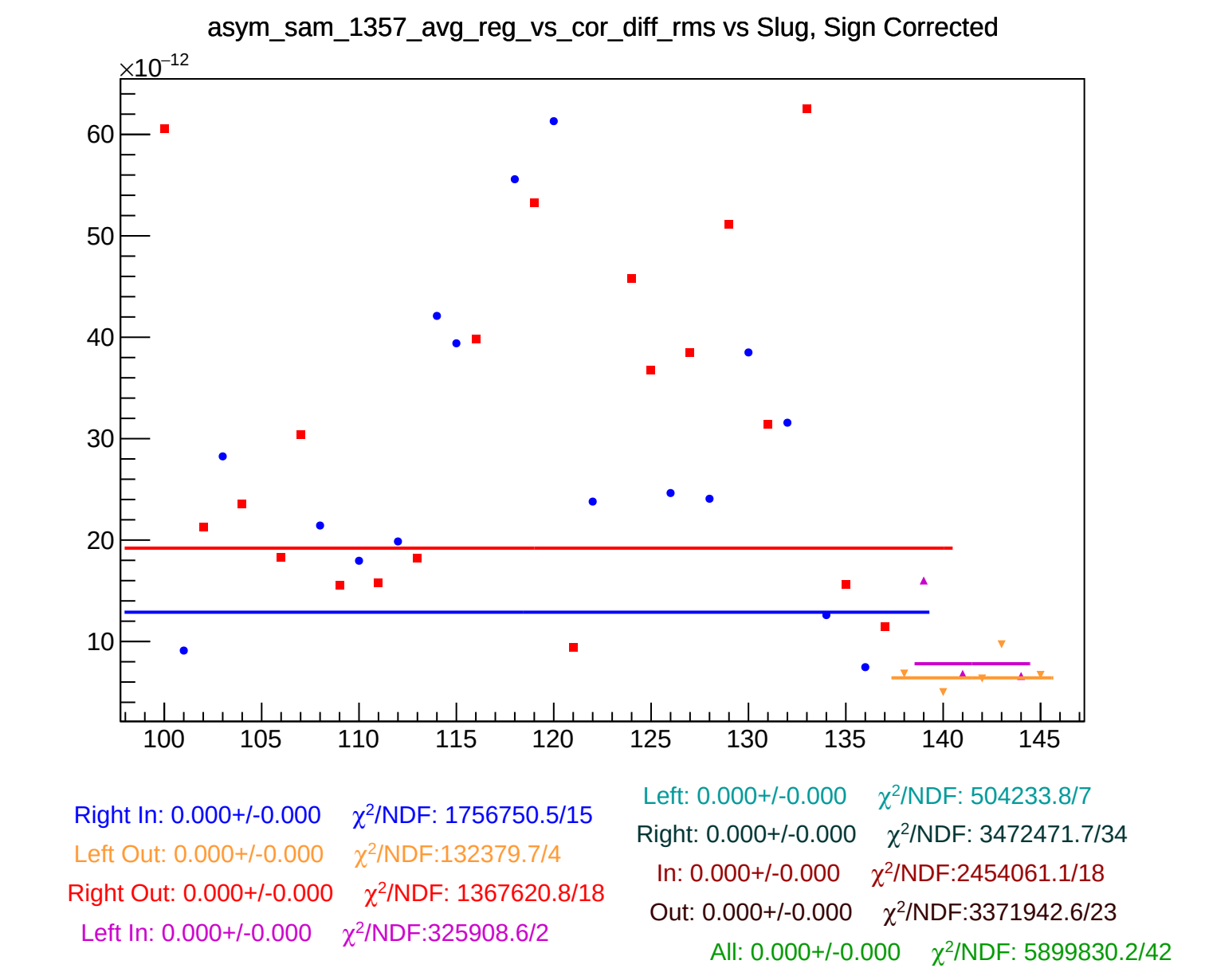
Left: -0.000+/-0.000 $\chi^2$/NDF: 5.9/7

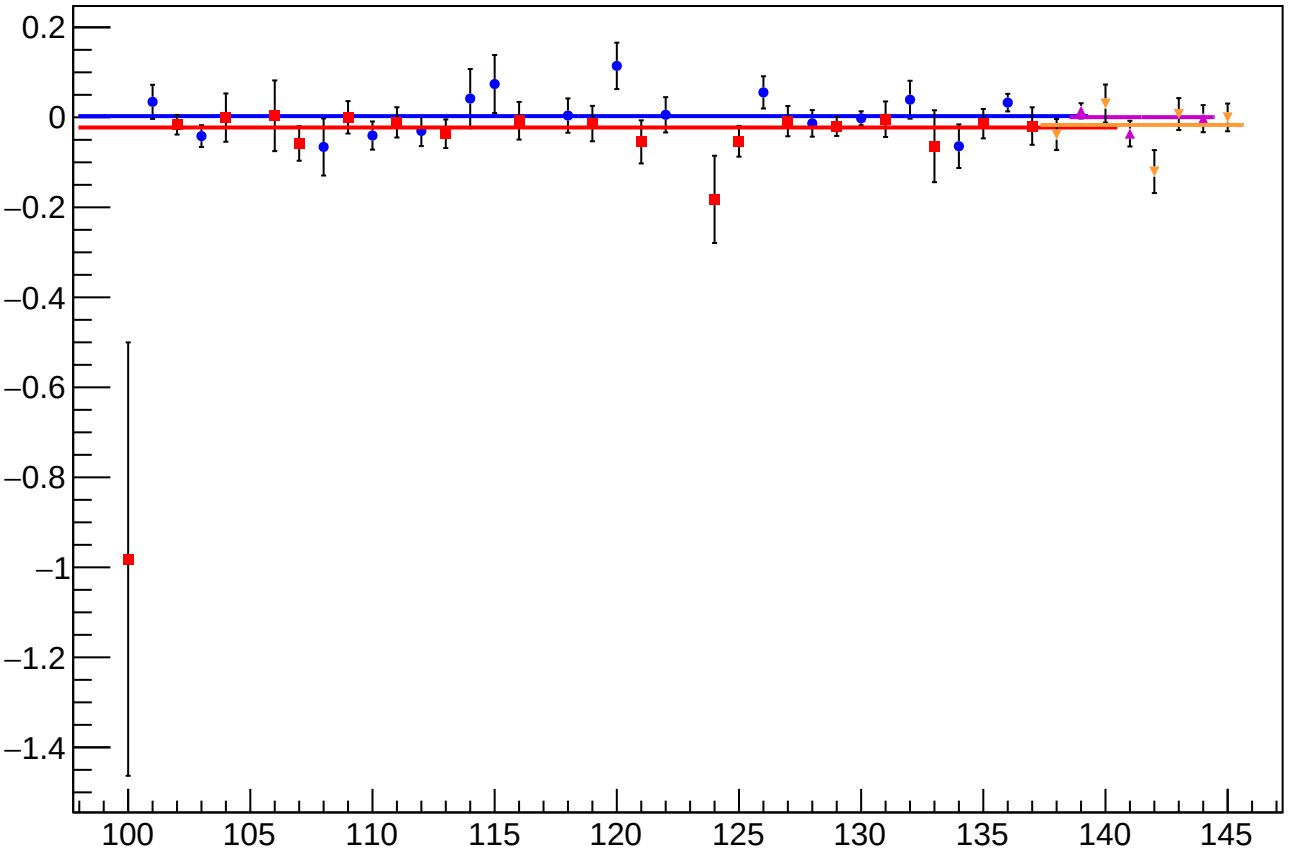
Right: 0.000+/-0.000 $\chi^2$/NDF: 43.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:14.0/18

Out: -0.000+/-0.000 $\chi^2$/NDF:34.4/23

All: -0.000+/-0.000 $\chi^2$/NDF: 49.8/42


asym_sam_1357_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1756750.5/15
Left Out: 0.000+/-0.000 χ²/NDF:132379.7/4
Right Out: 0.000+/-0.000 χ²/NDF: 1367620.8/18
Left In: 0.000+/-0.000 χ²/NDF:325908.6/2
Left: 0.000+/-0.000 χ²/NDF: 504233.8/7
Right: 0.000+/-0.000 χ²/NDF: 3472471.7/34
In: 0.000+/-0.000 χ²/NDF:2454061.1/18
Out: 0.000+/-0.000 χ²/NDF:3371942.6/23
All: 0.000+/-0.000 χ²/NDF: 5899830.2/42




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: -0.017+/-0.016 $\chi^2$/NDF:7.1/4

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: 0.000+/-0.013 $\chi^2$/NDF:2.3/2

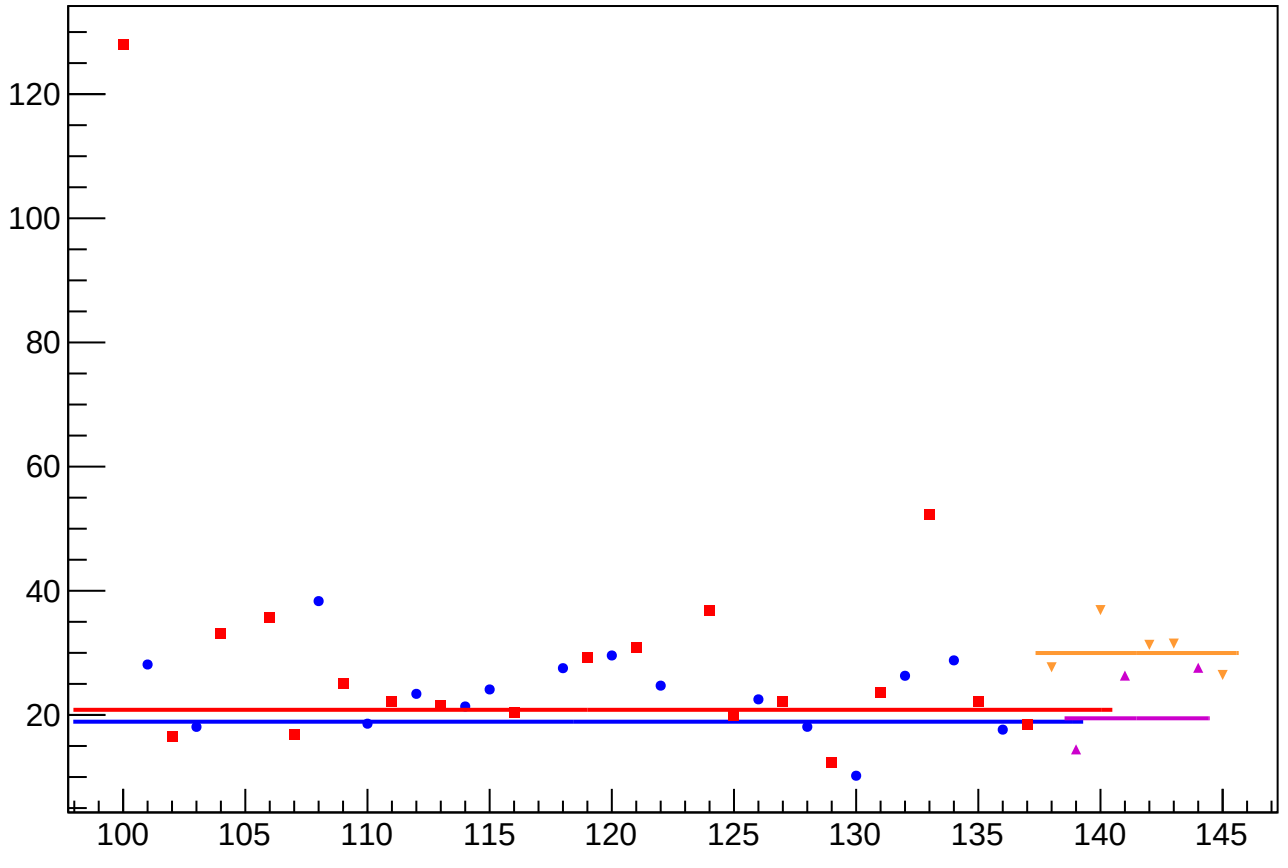
Left: -0.006+/-0.010 $\chi^2$/NDF: 10.1/7

Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: 0.002+/-0.007 $\chi^2$/NDF:24.3/18

Out: -0.021+/-0.008 $\chi^2$/NDF:18.0/23

All: -0.008+/-0.005 $\chi^2$/NDF: 47.7/42




Right In: 18.911+/-0.006 $\chi^2$/NDF: 1390349.2/15

Left Out: 29.975+/-0.012 $\chi^2$/NDF:93810.6/4

Right Out: 20.826+/-0.006 $\chi^2$/NDF: 1291541.1/18

Left In: 19.459+/-0.009 $\chi^2$/NDF:436202.0/2

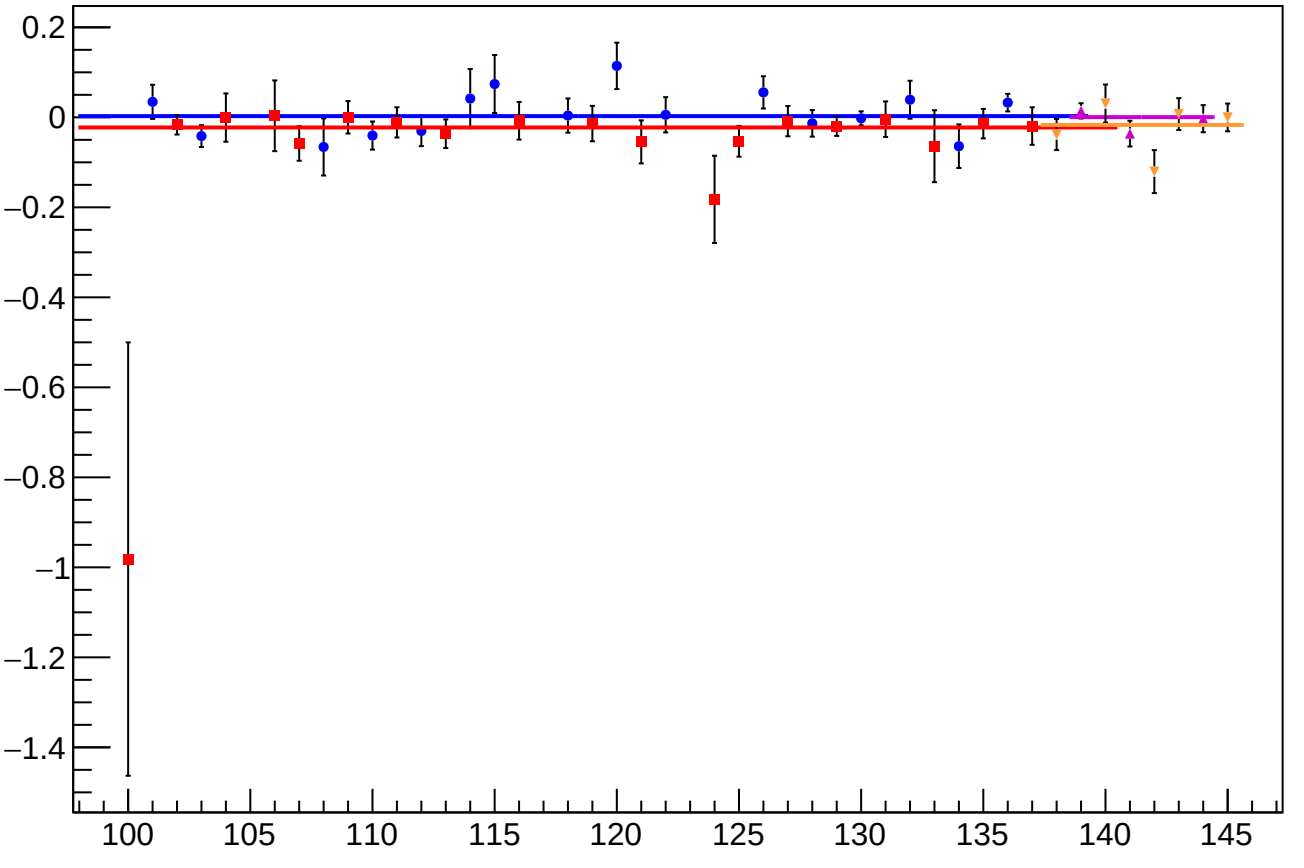
Left: 23.544+/-0.007 $\chi^2$/NDF: 1028659.1/7

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737339.0/34

In: 19.054+/-0.005 $\chi^2$/NDF:1829121.9/18

Out: 22.733+/-0.005 $\chi^2$/NDF:1873867.4/23

All: 20.685+/-0.004 $\chi^2$/NDF: 3969541.0/42




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: -0.017+/-0.016 $\chi^2$/NDF:7.1/4

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: 0.000+/-0.013 $\chi^2$/NDF:2.3/2

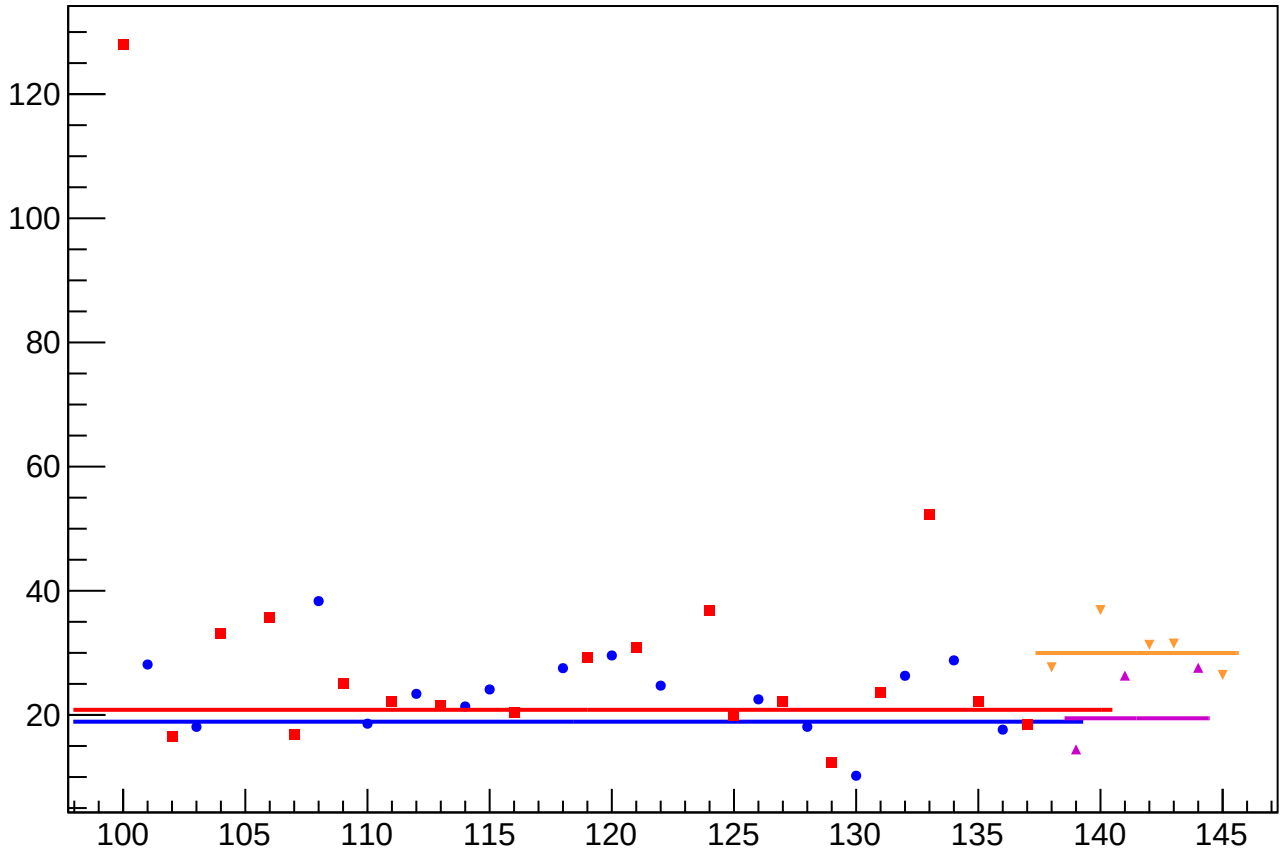
Left: -0.006+/-0.010 $\chi^2$/NDF: 10.1/7

Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: 0.002+/-0.007 $\chi^2$/NDF:24.3/18

Out: -0.021+/-0.008 $\chi^2$/NDF:18.0/23

All: -0.008+/-0.005 $\chi^2$/NDF: 47.7/42




Right In: 18.911+/-0.006 $\chi^2$/NDF: 1390349.2/15

Left Out: 29.975+/-0.012 $\chi^2$/NDF:93810.6/4

Right Out: 20.826+/-0.006 $\chi^2$/NDF: 1291541.1/18

Left In: 19.459+/-0.009 $\chi^2$/NDF:436202.0/2

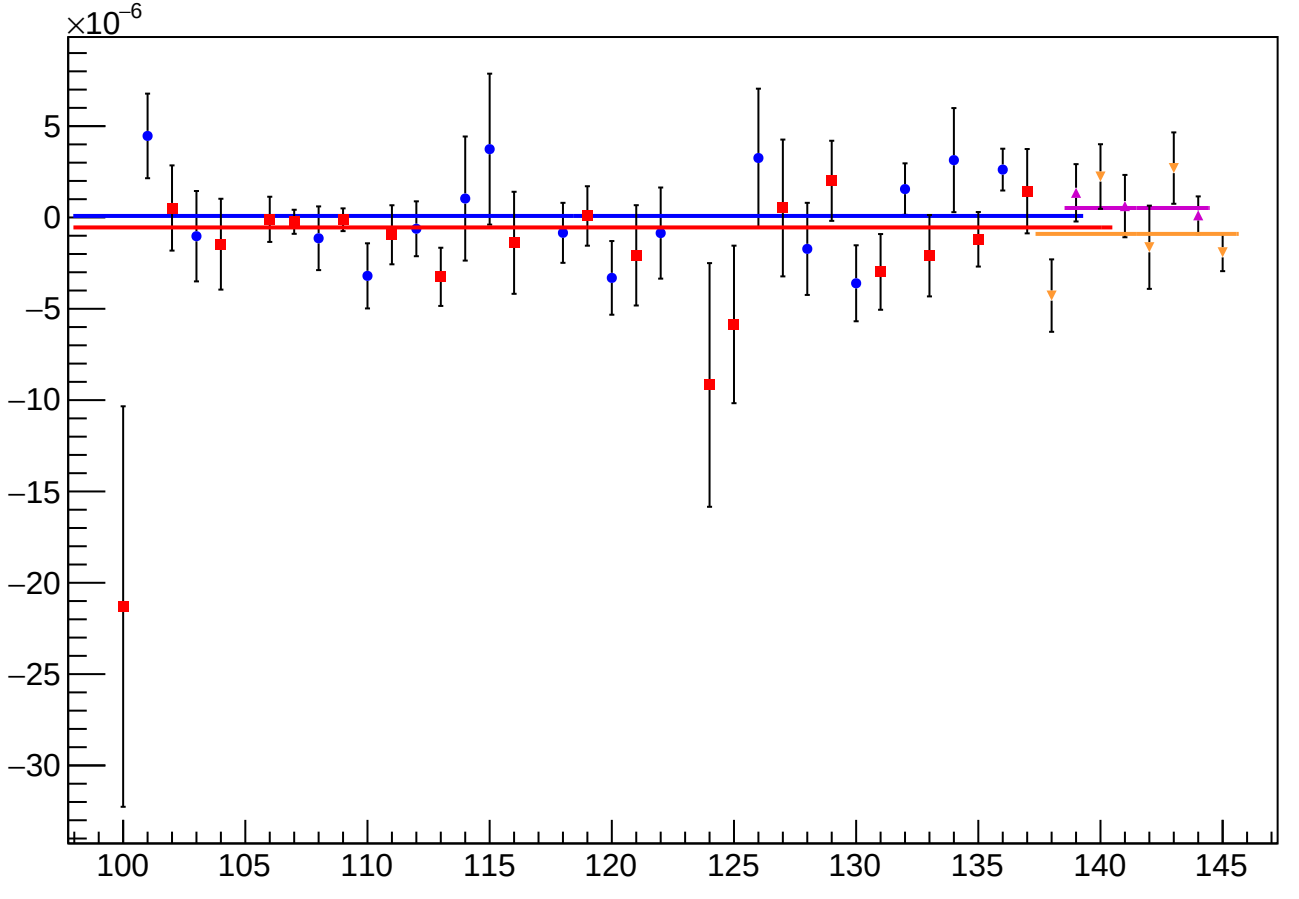
Left: 23.544+/-0.007 $\chi^2$/NDF: 1028659.1/7

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737339.0/34

In: 19.054+/-0.005 $\chi^2$/NDF:1829121.9/18

Out: 22.733+/-0.005 $\chi^2$/NDF:1873867.4/23

All: 20.685+/-0.004 $\chi^2$/NDF: 3969541.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.5/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.4/2

Left: -0.000+/-0.000 $\chi^2$/NDF: 12.8/7

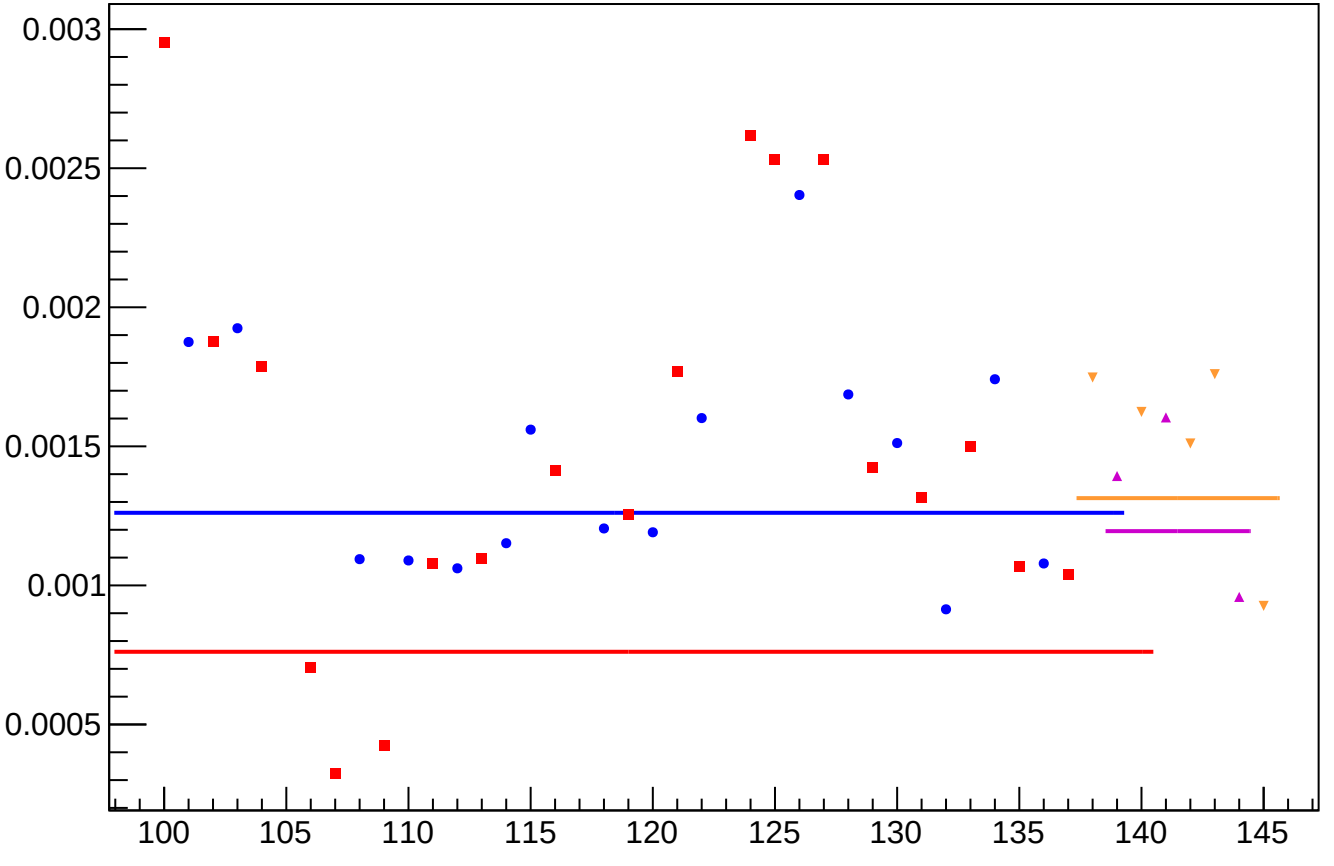
Right: -0.000+/-0.000 $\chi^2$/NDF: 40.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:24.2/18

Out: -0.000+/-0.000 $\chi^2$/NDF:26.3/23

All: -0.000+/-0.000 $\chi^2$/NDF: 53.1/42

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:557936.2/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4672607.8/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:251206.7/2

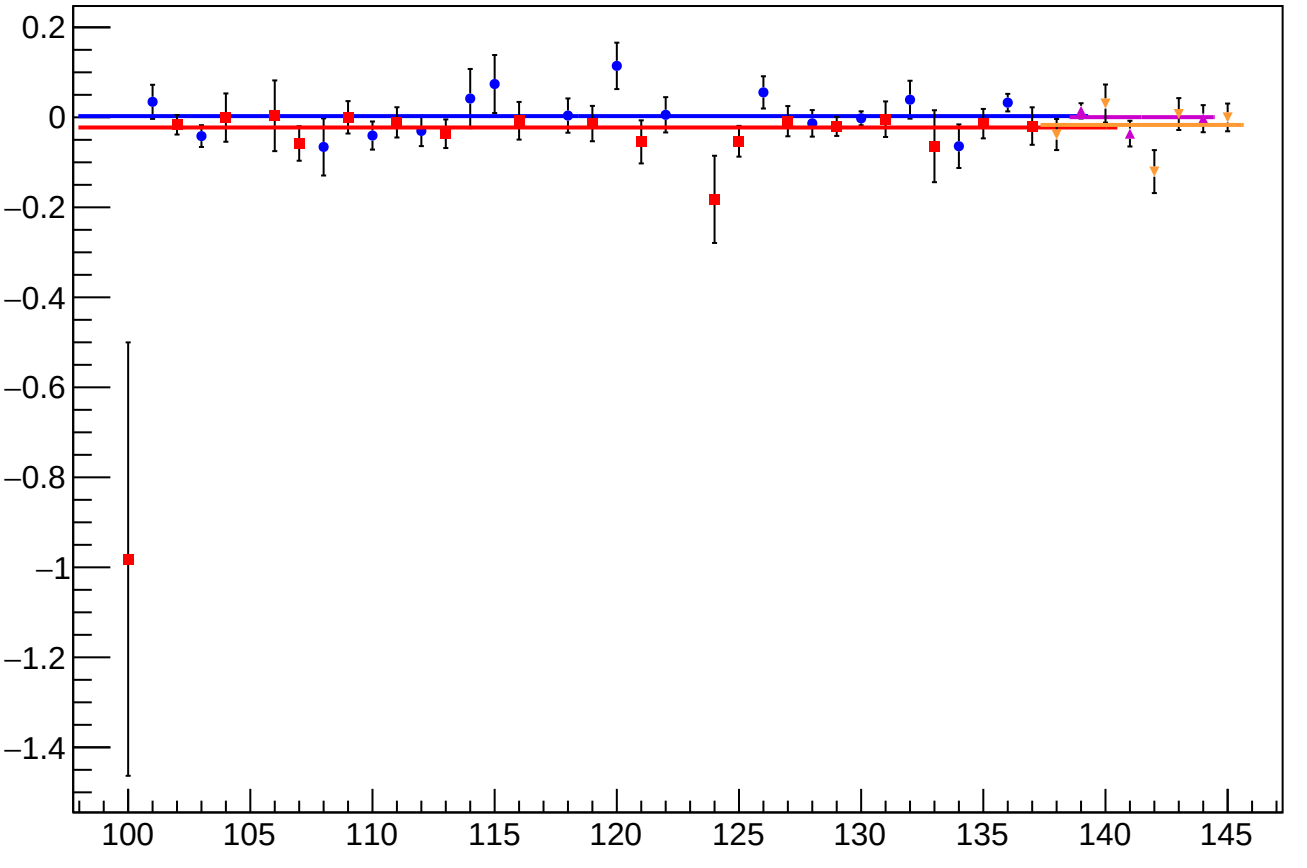
Left: 0.001+/-0.000 $\chi^2$/NDF: 834683.6/7

Right: 0.001+/-0.000 $\chi^2$/NDF: 6998069.8/34

In: 0.001+/-0.000 $\chi^2$/NDF:1168996.0/18

Out: 0.001+/-0.000 $\chi^2$/NDF:6210694.3/23

All: 0.001+/-0.000 $\chi^2$/NDF: 8473088.9/42




Right In: 0.003+/-0.008 $\chi^2$/NDF: 22.0/15

Left Out: -0.017+/-0.016 $\chi^2$/NDF:7.1/4

Right Out: -0.023+/-0.008 $\chi^2$/NDF: 10.8/18

Left In: 0.000+/-0.013 $\chi^2$/NDF:2.3/2

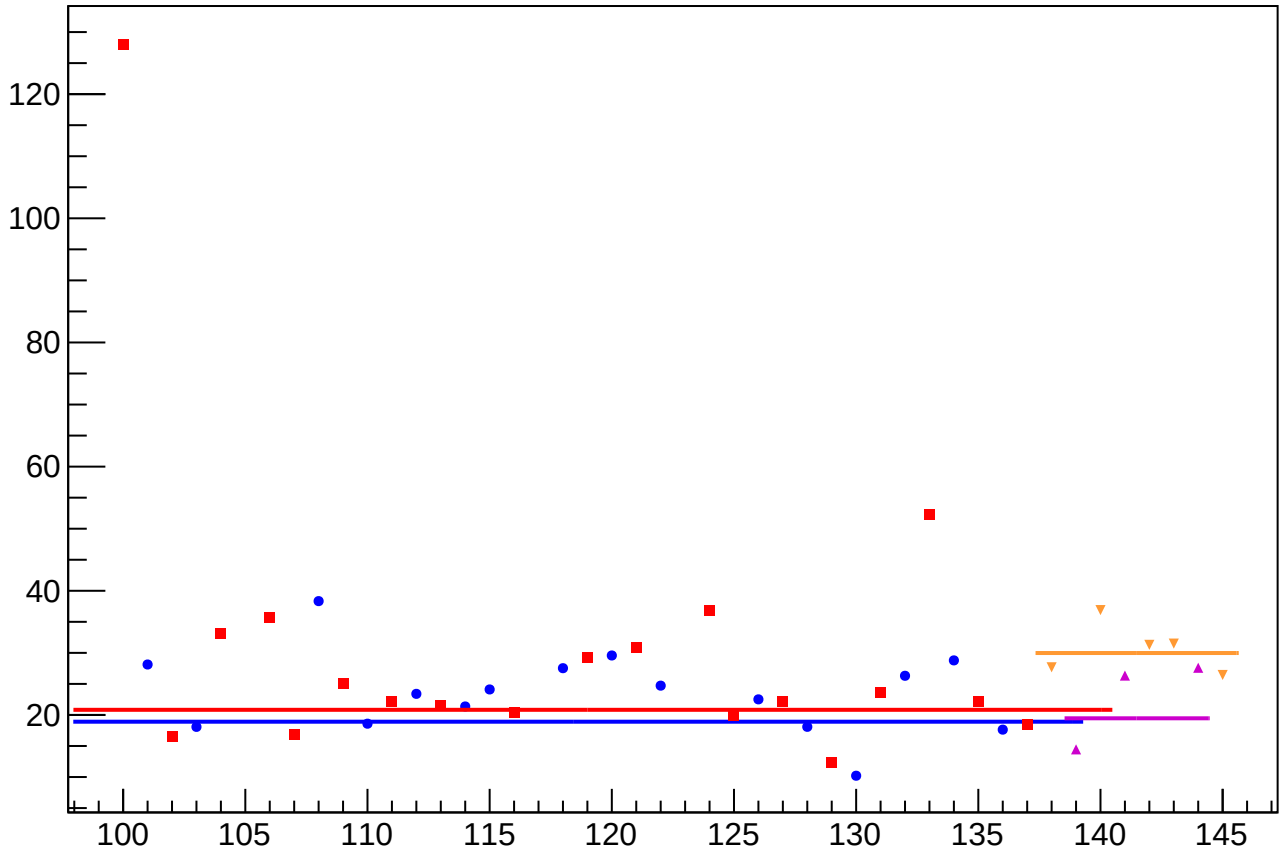
Left: -0.006+/-0.010 $\chi^2$/NDF: 10.1/7

Right: -0.009+/-0.006 $\chi^2$/NDF: 37.5/34

In: 0.002+/-0.007 $\chi^2$/NDF:24.3/18

Out: -0.021+/-0.008 $\chi^2$/NDF:18.0/23

All: -0.008+/-0.005 $\chi^2$/NDF: 47.7/42




Right In: 18.912+/-0.006 $\chi^2$/NDF: 1390233.4/15

Left Out: 29.975+/-0.012 $\chi^2$/NDF:93815.9/4

Right Out: 20.827+/-0.006 $\chi^2$/NDF: 1291537.3/18

Left In: 19.460+/-0.009 $\chi^2$/NDF:436164.6/2

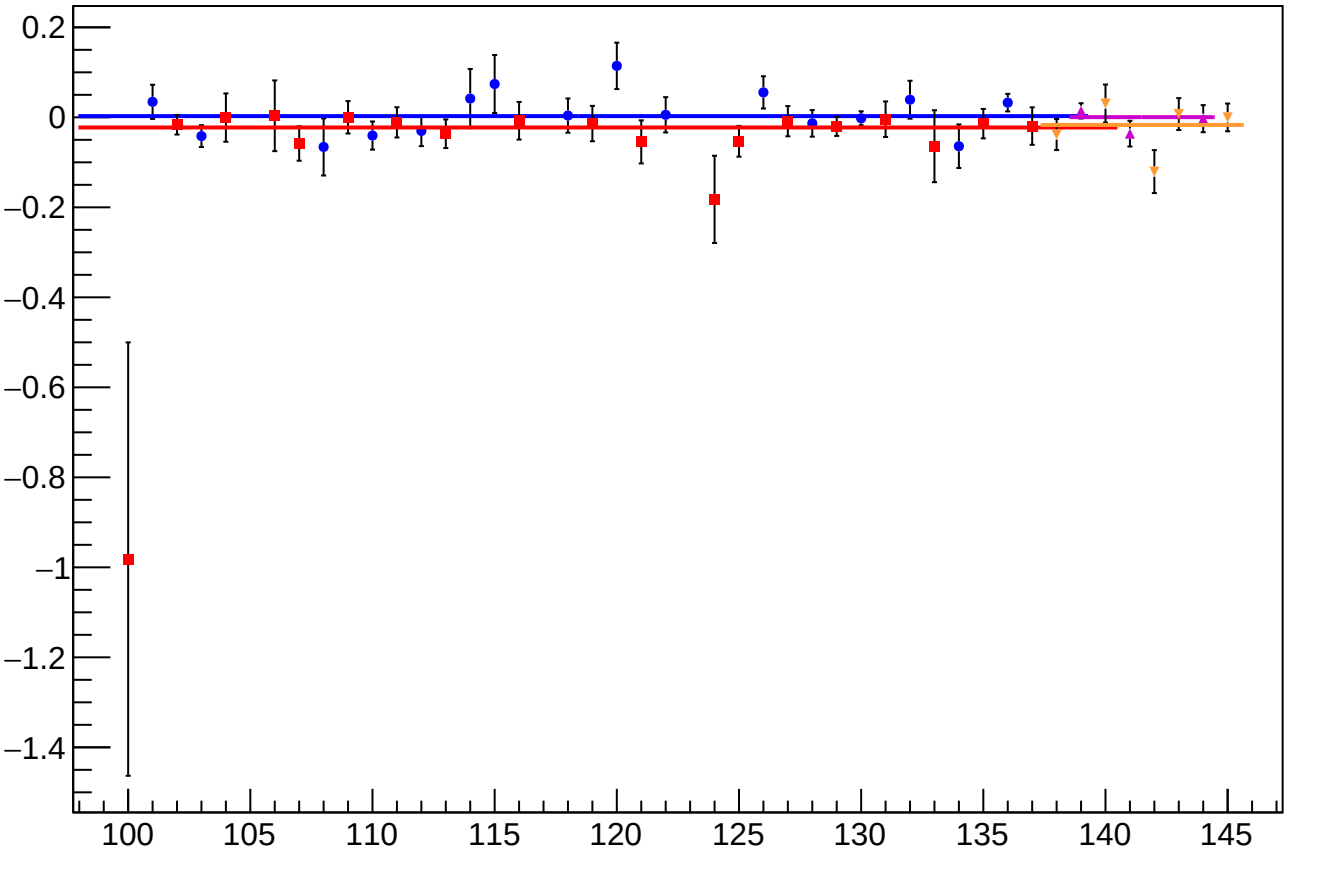
Left: 23.545+/-0.007 $\chi^2$/NDF: 1028582.9/7

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737206.7/34

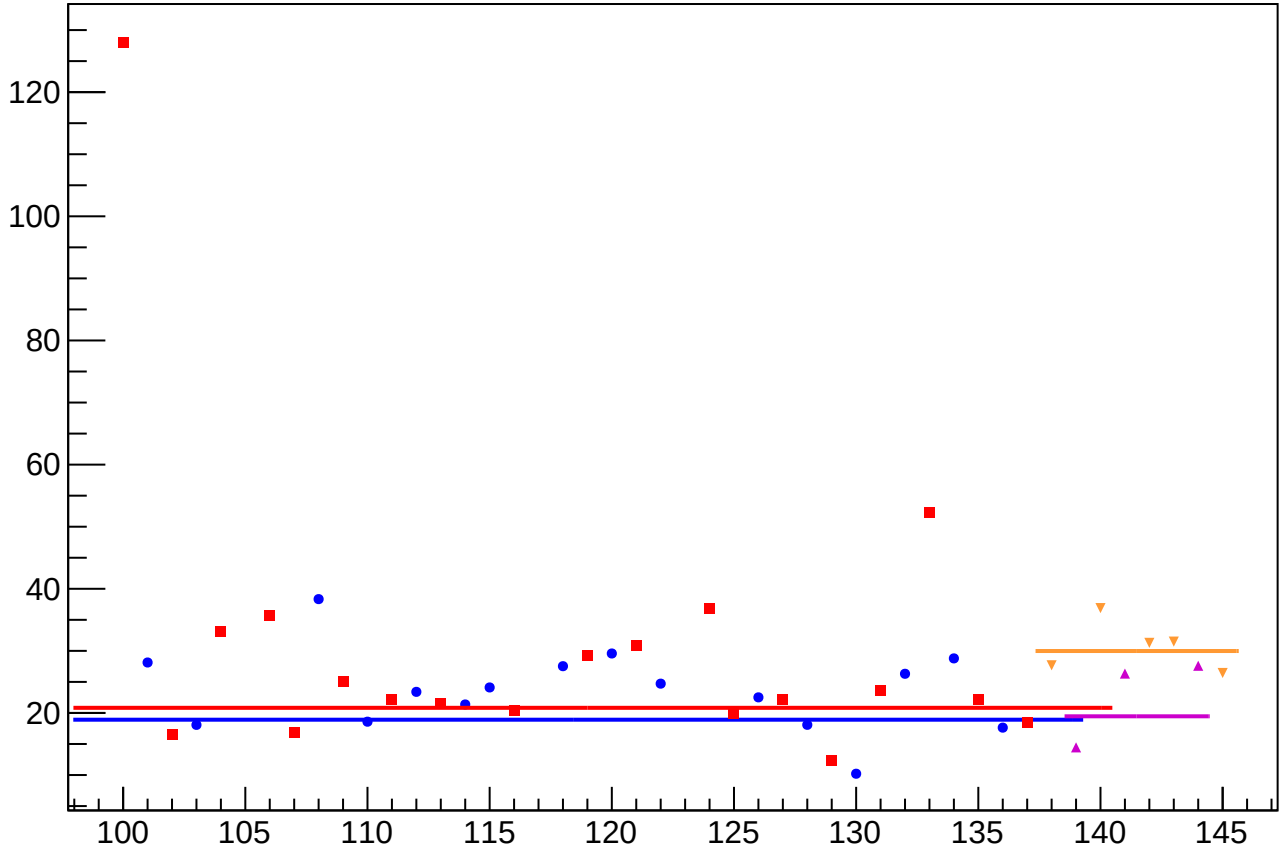
In: 19.055+/-0.005 $\chi^2$/NDF:1828971.6/18

Out: 22.733+/-0.005 $\chi^2$/NDF:1873883.6/23

All: 20.685+/-0.004 $\chi^2$/NDF: 3969365.2/42


asym_sam_1357_avg_eigen_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
105
110
115
120
125
130
135
140
145
Right In: 0.003+/-0.008 χ²/NDF: 22.0/15
Left Out: -0.017+/-0.016 χ²/NDF:7.1/4
Right Out: -0.023+/-0.008 χ²/NDF: 10.8/18
Left In: 0.000+/-0.013 χ²/NDF:2.3/2
Left: -0.006+/-0.010 χ²/NDF: 10.1/7
Right: -0.009+/-0.006 χ²/NDF: 37.5/34
In: 0.002+/-0.007 χ²/NDF:24.3/18
Out: -0.021+/-0.008 χ²/NDF:18.0/23
All: -0.008+/-0.005 χ²/NDF: 47.7/42

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: 29.975+/-0.012 $\chi^2$/NDF:93815.9/4

Right Out: 20.827+/-0.006 $\chi^2$/NDF: 1291537.3/18

Left In: 19.460+/-0.009 $\chi^2$/NDF:436164.6/2

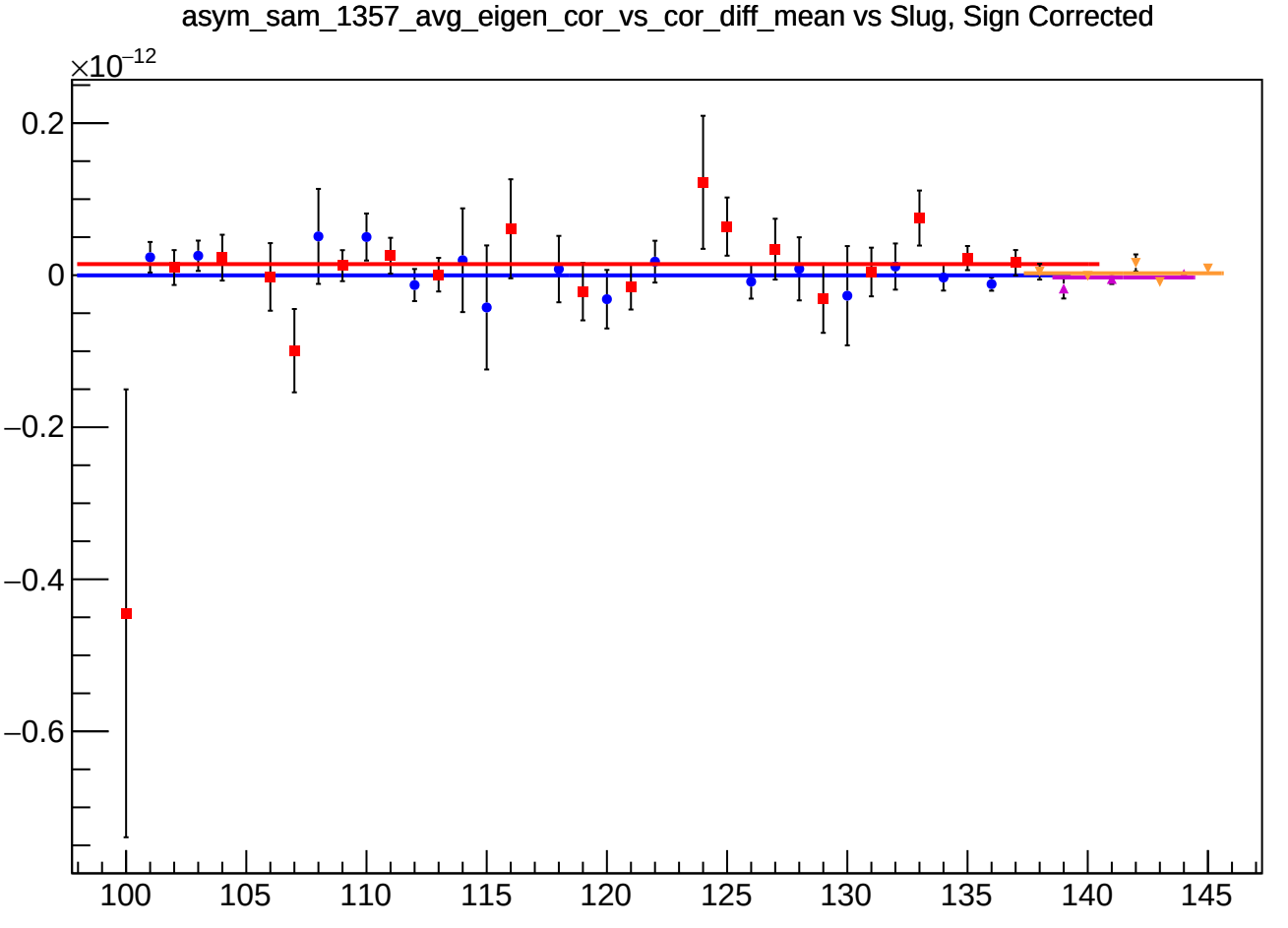
Left: 23.545+/-0.007 $\chi^2$/NDF: 1028582.9/7

Right: 19.793+/-0.004 $\chi^2$/NDF: 2737206.7/34

In: 19.055+/-0.005 $\chi^2$/NDF:1828971.6/18

Out: 22.733+/-0.005 $\chi^2$/NDF:1873883.6/23

All: 20.685+/-0.004 $\chi^2$/NDF: 3969365.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.5/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:1.9/2

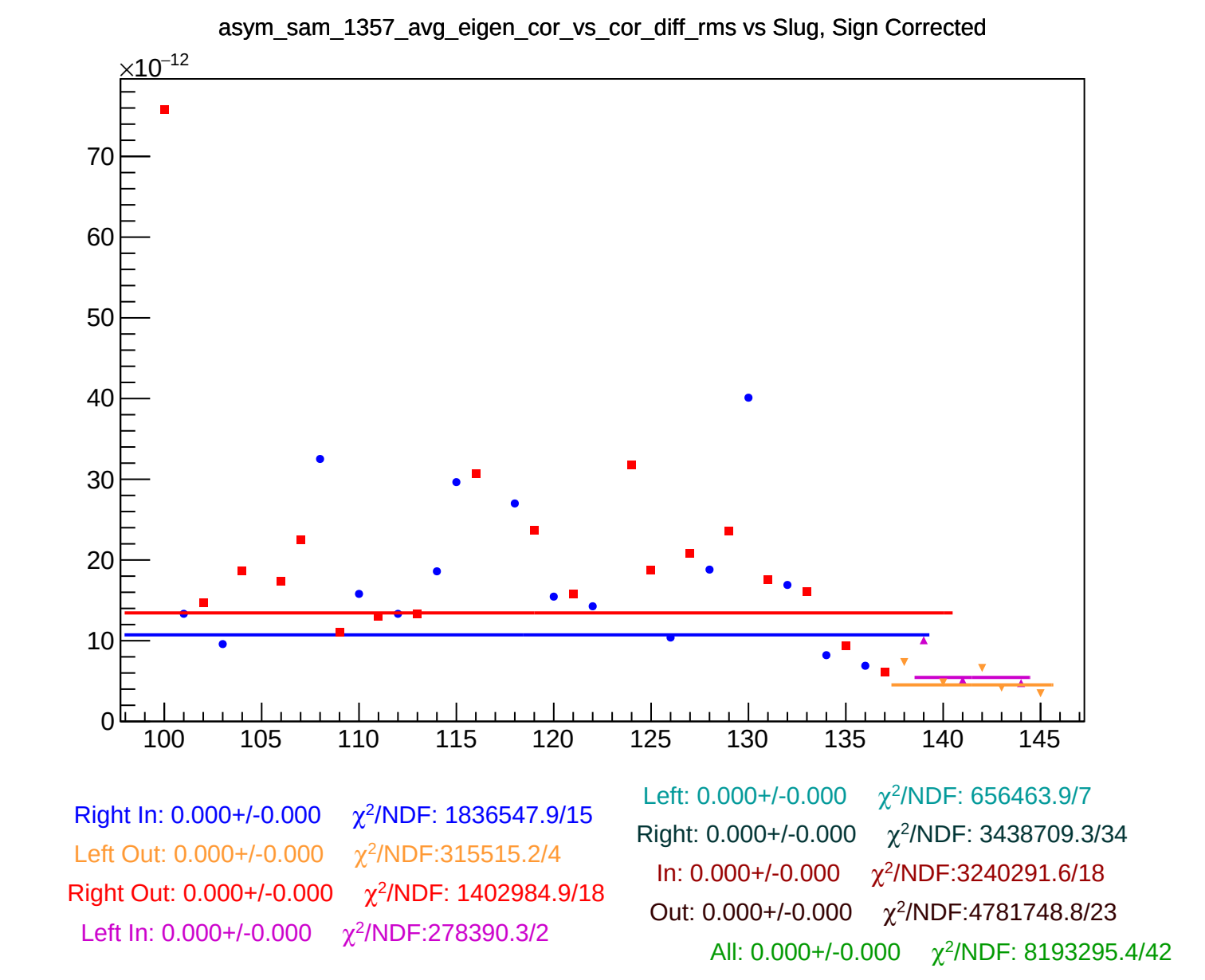
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.7/7

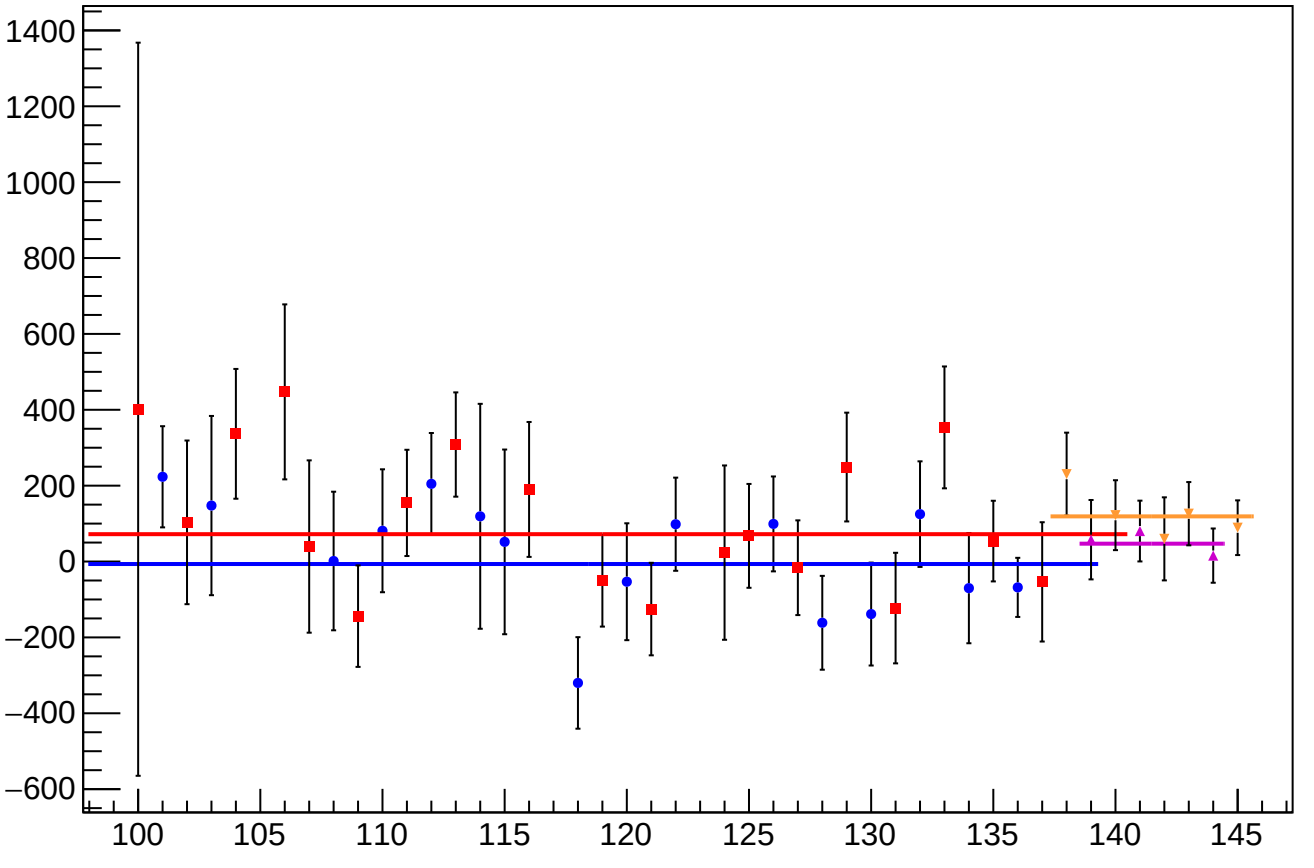
Right: 0.000+/-0.000 $\chi^2$/NDF: 31.1/34

In: -0.000+/-0.000 $\chi^2$/NDF:12.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:27.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 42.0/42


asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
70
60
50
40
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1836547.9/15
Left Out: 0.000+/-0.000 χ²/NDF:315515.2/4
Right Out: 0.000+/-0.000 χ²/NDF: 1402984.9/18
Left In: 0.000+/-0.000 χ²/NDF:278390.3/2
Left: 0.000+/-0.000 χ²/NDF: 656463.9/7
Right: 0.000+/-0.000 χ²/NDF: 3438709.3/34
In: 0.000+/-0.000 χ²/NDF:3240291.6/18
Out: 0.000+/-0.000 χ²/NDF:4781748.8/23
All: 0.000+/-0.000 χ²/NDF: 8193295.4/42




Right In: -6.559+/-34.286 $\chi^2$/NDF: 18.9/15

Left Out: 119.013+/-40.131 $\chi^2$/NDF:1.5/4

Right Out: 72.124+/-34.883 $\chi^2$/NDF: 22.8/18

Left In: 47.044+/-47.524 $\chi^2$/NDF:0.4/2

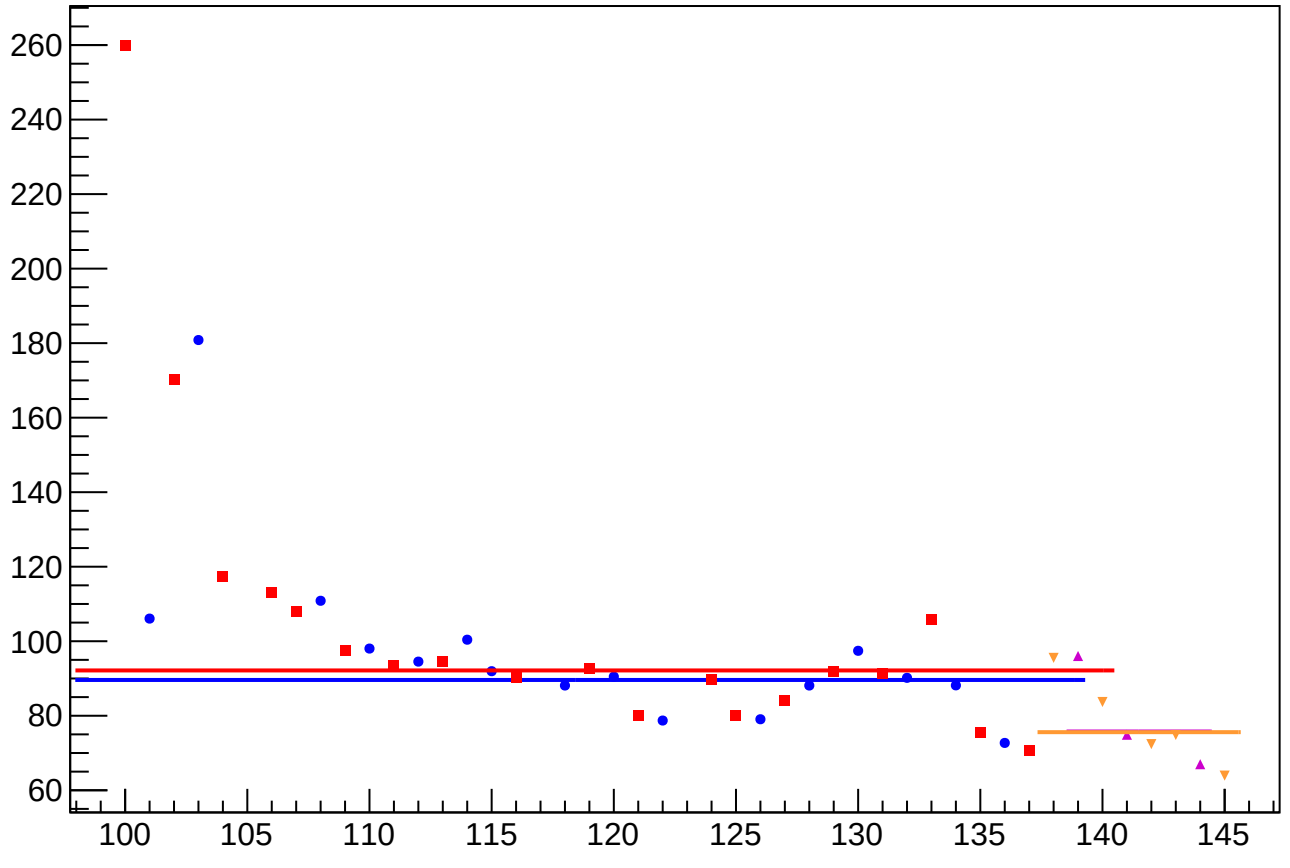
Left: 89.056+/-30.661 $\chi^2$/NDF: 3.2/7

Right: 32.104+/-24.452 $\chi^2$/NDF: 44.3/34

In: 11.791+/-27.805 $\chi^2$/NDF:20.1/18

Out: 92.304+/-26.327 $\chi^2$/NDF:25.1/23

All: 54.244+/-19.117 $\chi^2$/NDF: 49.6/42




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498380.8/15

Left Out: 75.594+/-0.028 $\chi^2$/NDF:136041.5/4

Right Out: 92.161+/-0.025 $\chi^2$/NDF: 542074.4/18

Left In: 75.771+/-0.034 $\chi^2$/NDF:105369.8/2

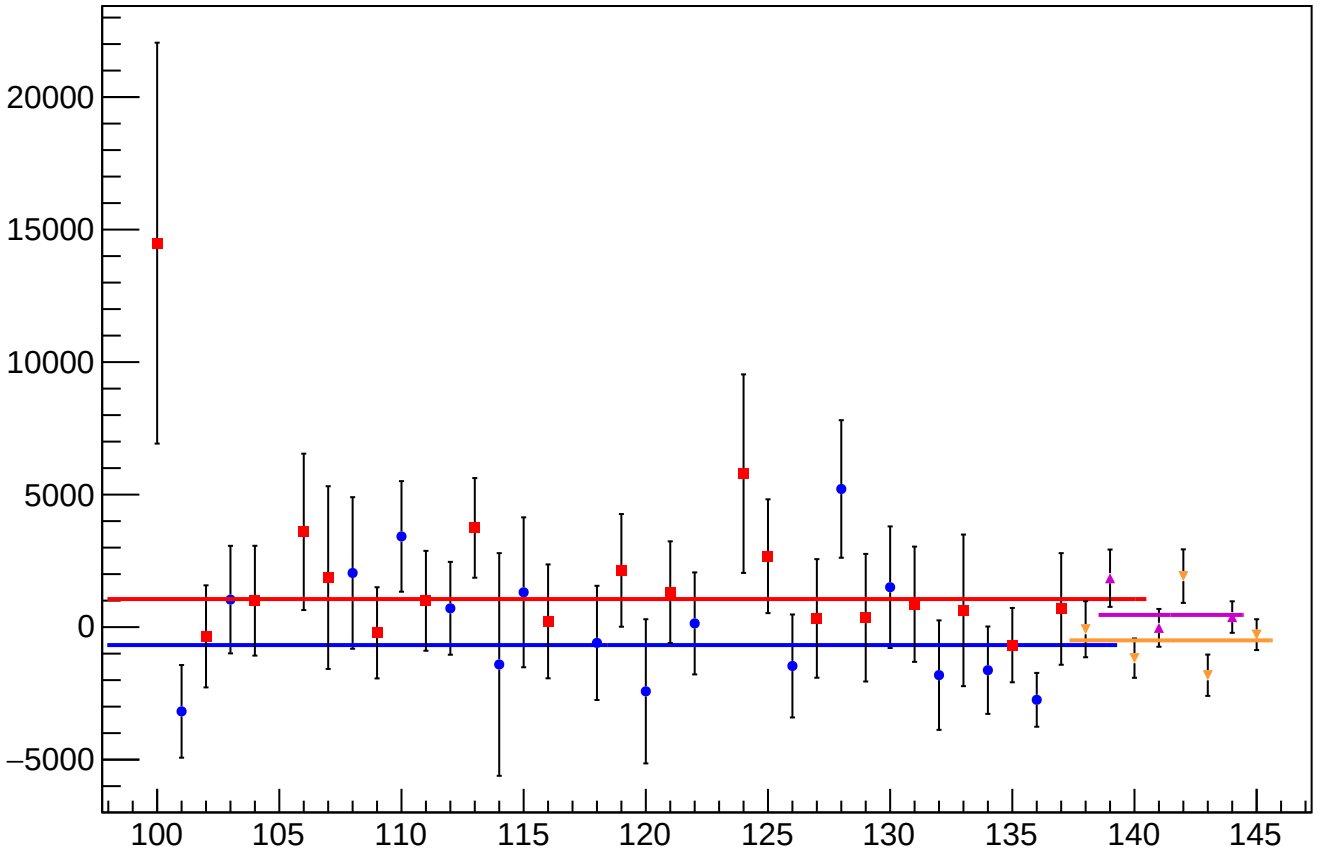
Left: 75.668+/-0.022 $\chi^2$/NDF: 241427.4/7

Right: 90.860+/-0.017 $\chi^2$/NDF: 1045922.9/34

In: 84.868+/-0.020 $\chi^2$/NDF:715192.9/18

Out: 85.031+/-0.019 $\chi^2$/NDF:872264.6/23

All: 84.954+/-0.014 $\chi^2$/NDF: 1587493.6/42




Right In: -677.381+/-486.480 $\chi^2$/NDF: 20.3/15

Left Out: -499.148+/-347.329 $\chi^2$/NDF:9.7/4

Right Out: 1058.761+/-496.350 $\chi^2$/NDF: 11.5/18

Left In: 460.089+/-420.693 $\chi^2$/NDF:2.1/2

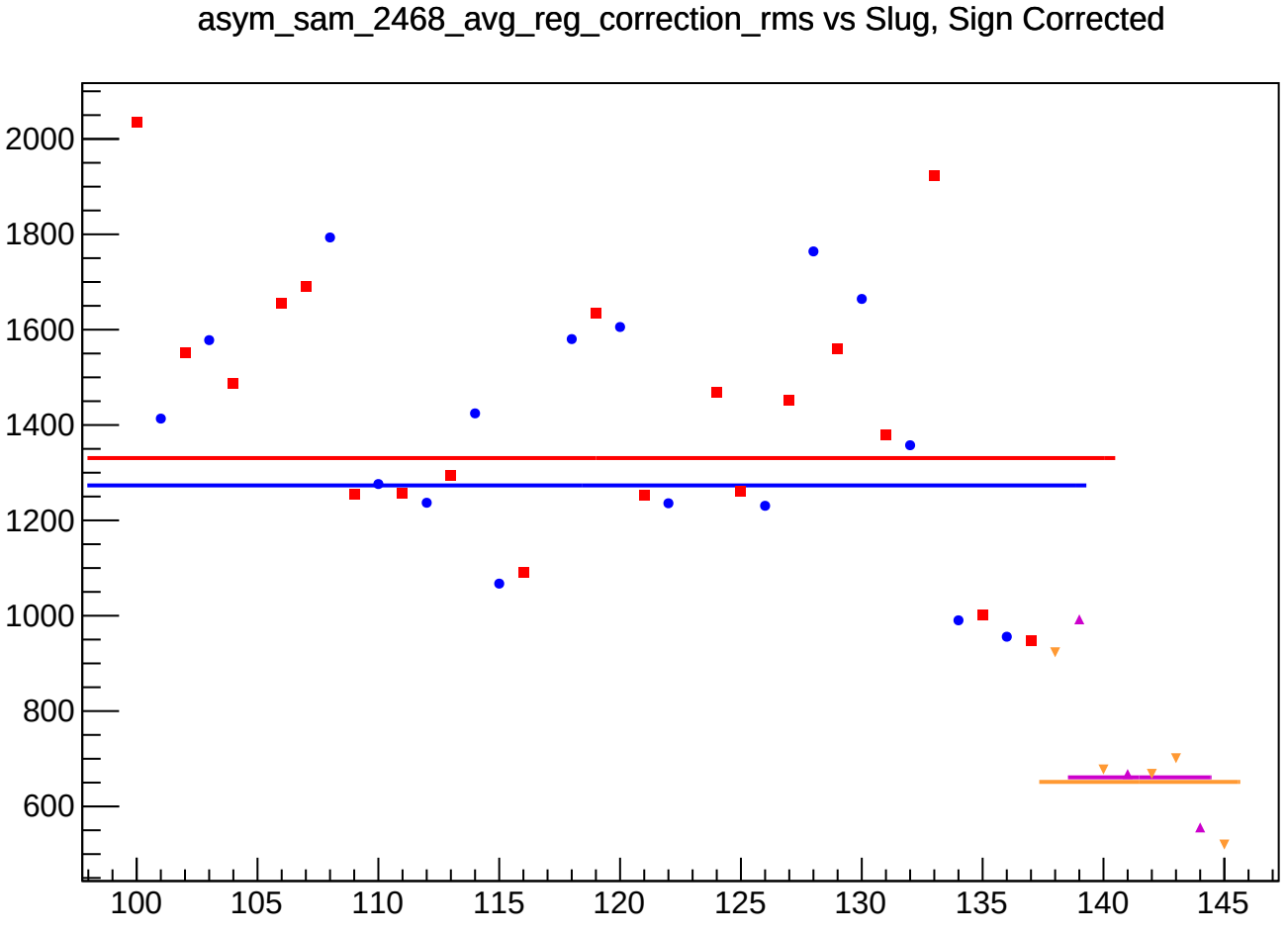
Left: -110.331+/-267.840 $\chi^2$/NDF: 14.9/7

Right: 173.256+/-347.430 $\chi^2$/NDF: 38.0/34

In: -26.589+/-318.212 $\chi^2$/NDF:25.5/18

Out: 12.954+/-284.574 $\chi^2$/NDF:27.8/23

All: -4.618+/-212.123 $\chi^2$/NDF: 53.3/42




Right In: 1273.324+/-0.344 $\chi^2$/NDF: 597520.6/15

Left Out: 651.449+/-0.246 $\chi^2$/NDF:245151.9/4

Right Out: 1330.683+/-0.351 $\chi^2$/NDF: 470703.7/18

Left In: 661.002+/-0.297 $\chi^2$/NDF:250611.3/2

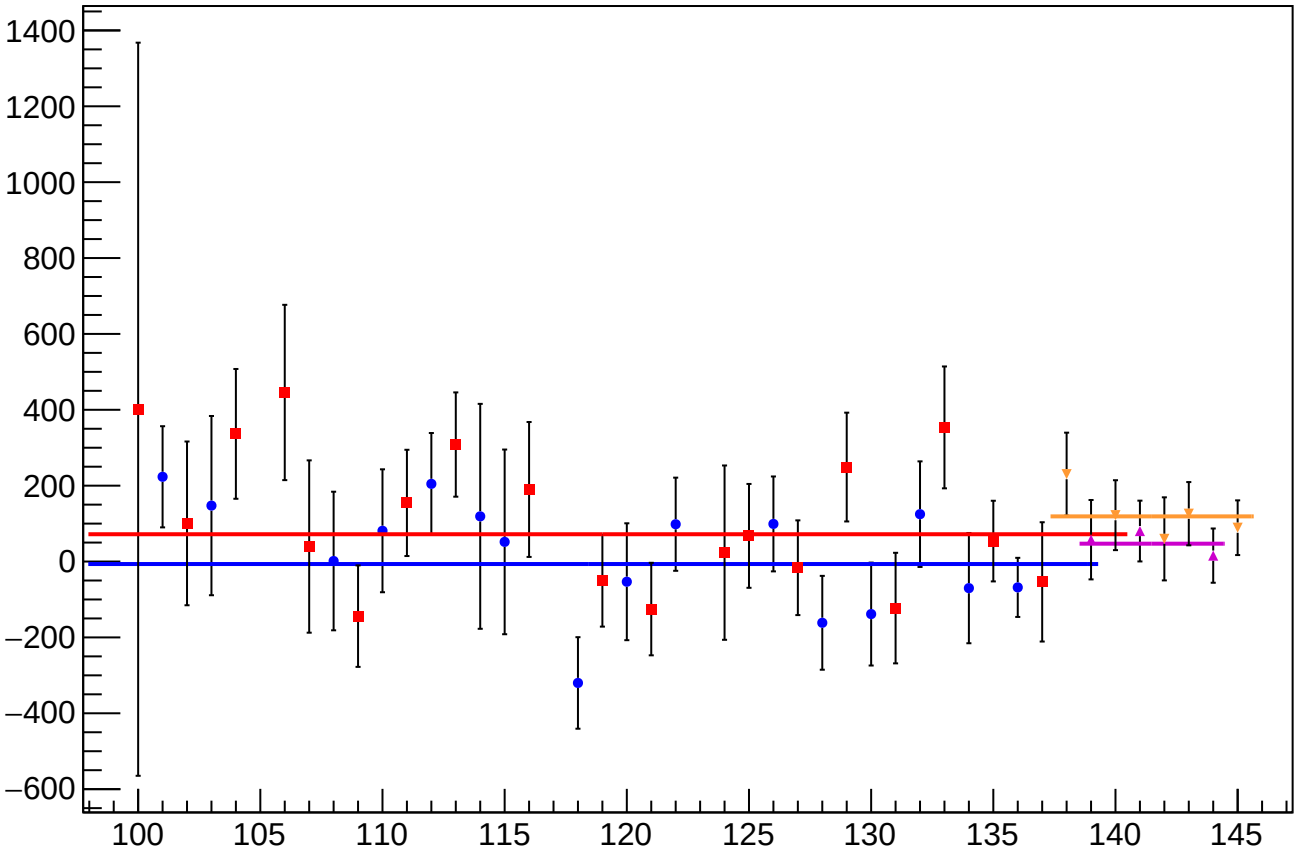
Left: 655.321+/-0.189 $\chi^2$/NDF: 496376.6/7

Right: 1301.428+/-0.246 $\chi^2$/NDF: 1081847.0/34

In: 922.991+/-0.225 $\chi^2$/NDF:2660980.5/18

Out: 874.721+/-0.201 $\chi^2$/NDF:3230069.7/23

All: 896.171+/-0.150 $\chi^2$/NDF: 5916620.6/42




Right In: -6.568+/-34.286 $\chi^2$/NDF: 18.9/15

Left Out: 119.025+/-40.131 $\chi^2$/NDF:1.5/4

Right Out: 71.981+/-34.885 $\chi^2$/NDF: 22.8/18

Left In: 47.053+/-47.524 $\chi^2$/NDF:0.4/2

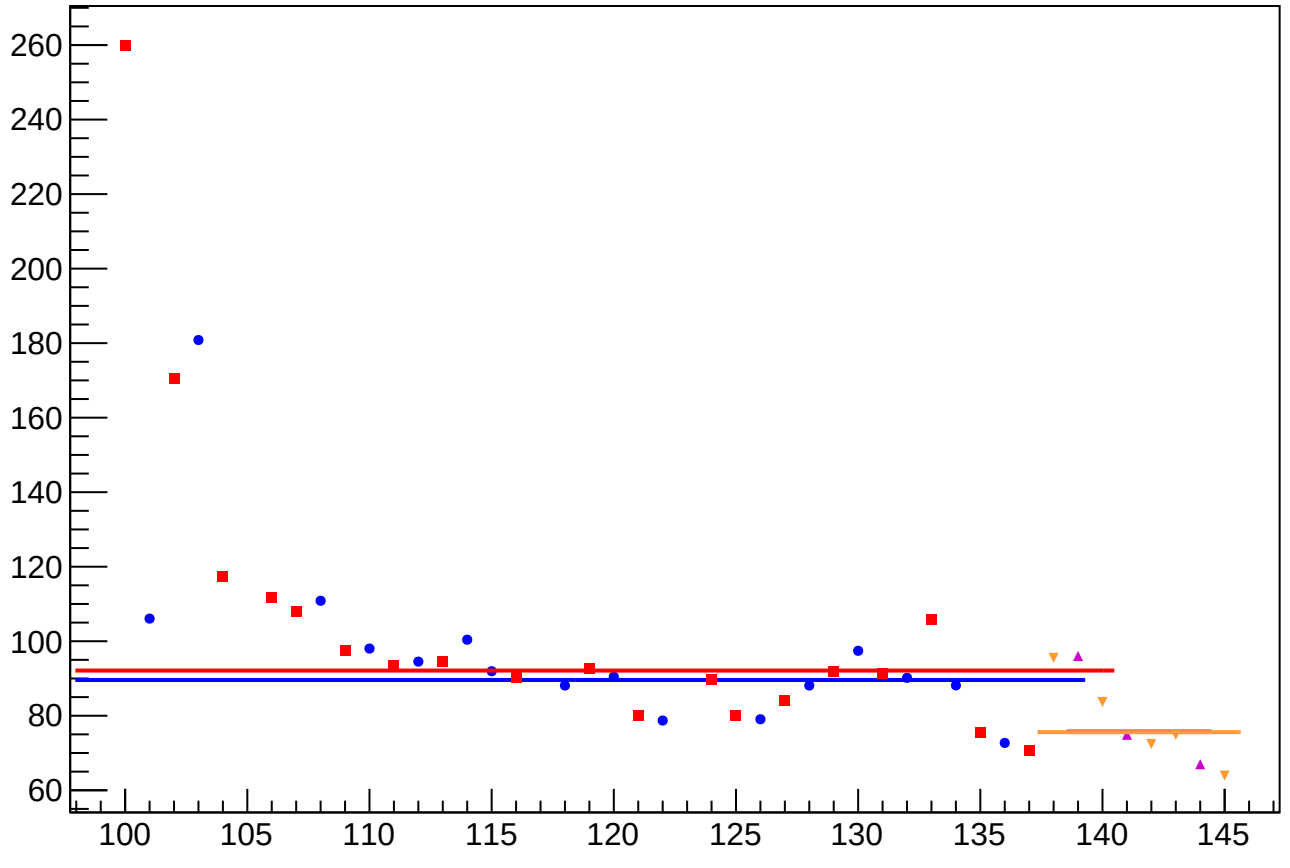
Left: 89.067+/-30.661 $\chi^2$/NDF: 3.2/7

Right: 32.026+/-24.453 $\chi^2$/NDF: 44.3/34

In: 11.787+/-27.805 $\chi^2$/NDF:20.1/18

Out: 92.229+/-26.328 $\chi^2$/NDF:25.0/23

All: 54.202+/-19.118 $\chi^2$/NDF: 49.6/42




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498384.4/15

Left Out: 75.594+/-0.028 $\chi^2$/NDF:136041.5/4

Right Out: 92.129+/-0.025 $\chi^2$/NDF: 540308.7/18

Left In: 75.771+/-0.034 $\chi^2$/NDF:105369.8/2

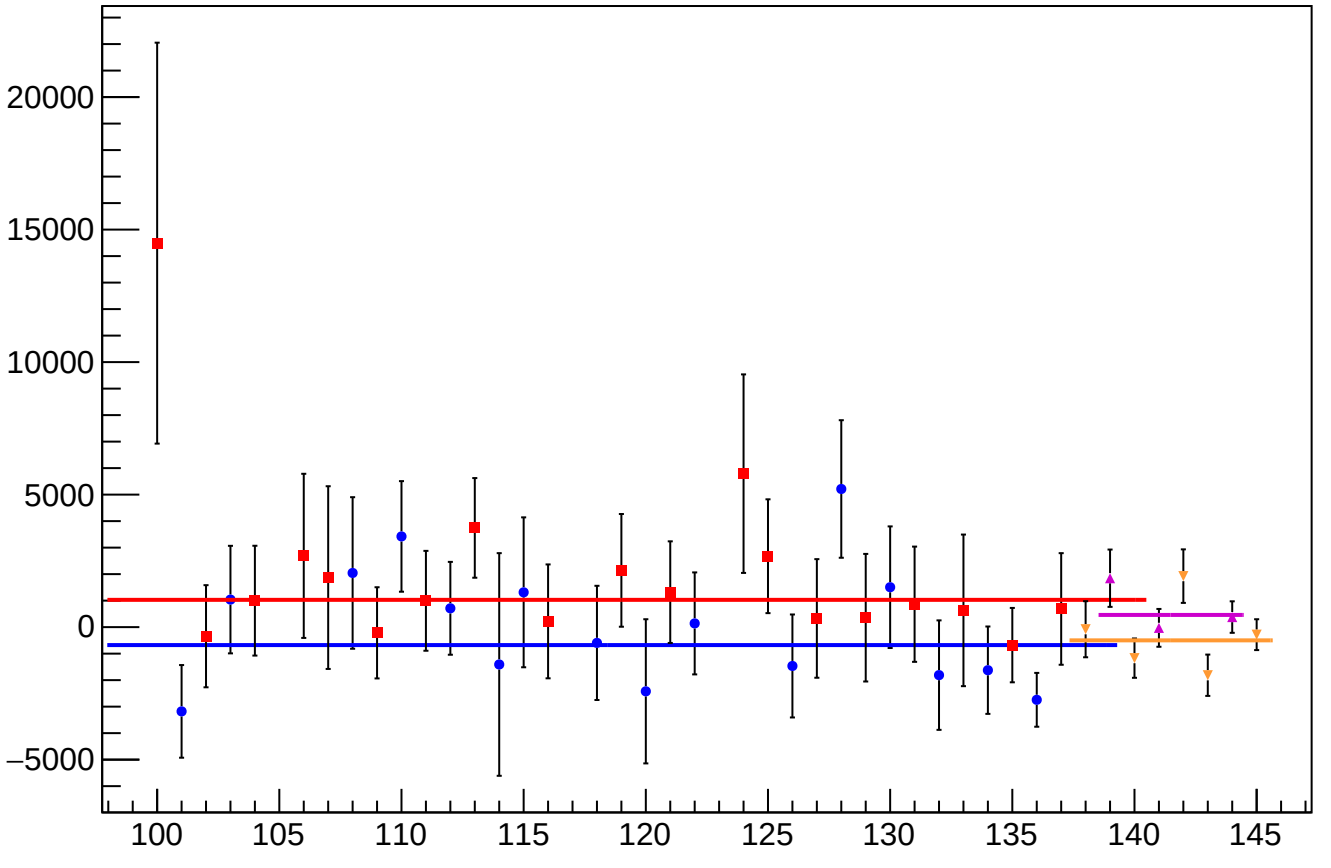
Left: 75.668+/-0.022 $\chi^2$/NDF: 241427.4/7

Right: 90.845+/-0.017 $\chi^2$/NDF: 1044025.4/34

In: 84.868+/-0.020 $\chi^2$/NDF:715196.5/18

Out: 85.012+/-0.019 $\chi^2$/NDF:869745.2/23

All: 84.944+/-0.014 $\chi^2$/NDF: 1584970.0/42




Right In: -677.345+/-486.482 $\chi^2$/NDF: 20.3/15

Left Out: -499.137+/-347.328 $\chi^2$/NDF:9.7/4

Right Out: 1029.395+/-497.018 $\chi^2$/NDF: 11.0/18

Left In: 460.101+/-420.693 $\chi^2$/NDF:2.1/2

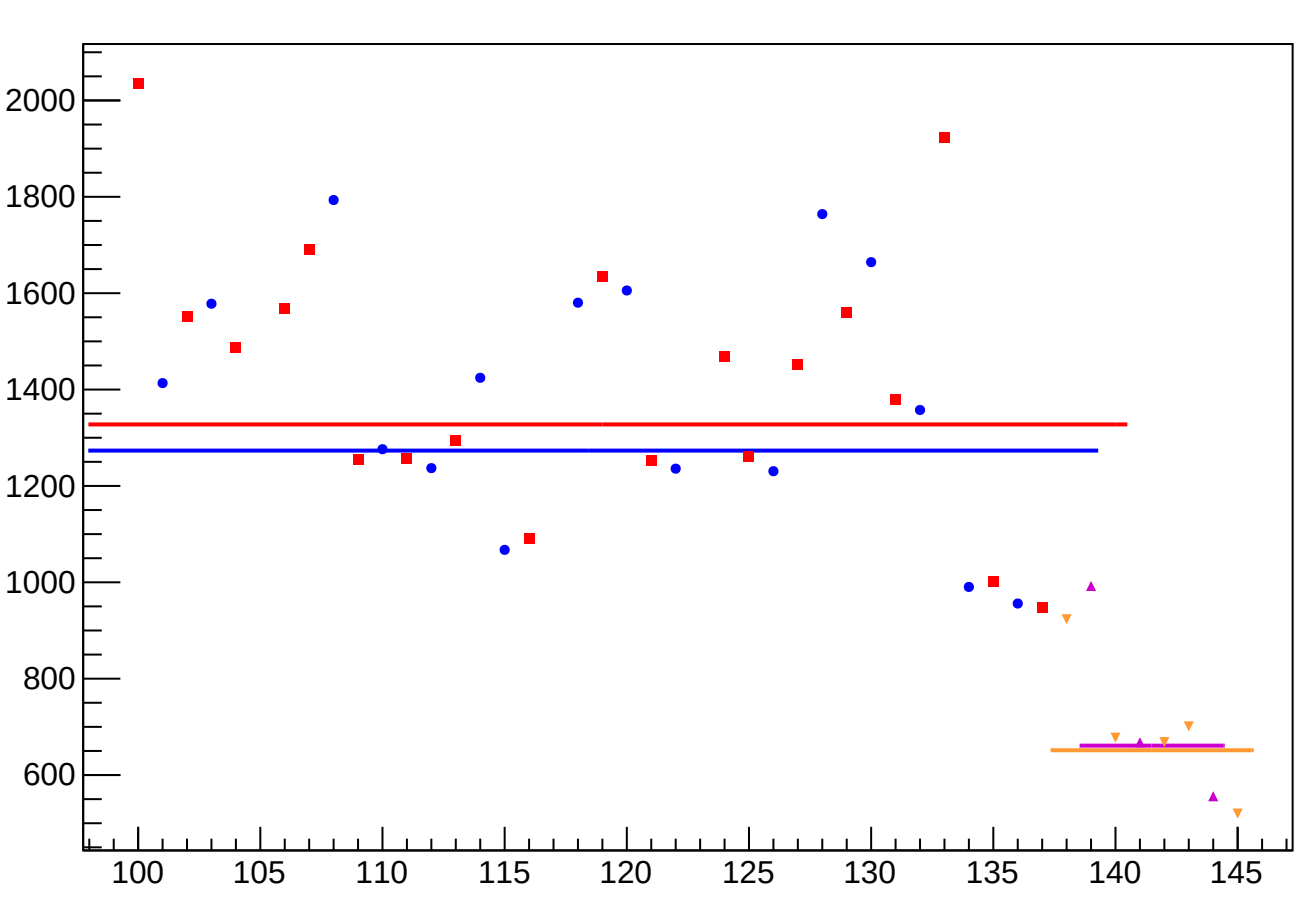
Left: -110.320+/-267.840 $\chi^2$/NDF: 14.9/7

Right: 157.743+/-347.660 $\chi^2$/NDF: 37.3/34

In: -26.565+/-318.212 $\chi^2$/NDF:25.5/18

Out: 2.402+/-284.700 $\chi^2$/NDF:27.1/23

All: -10.477+/-212.175 $\chi^2$/NDF: 52.6/42




Right In: 1273.327+/-0.344 $\chi^2$/NDF: 597547.8/15

Left Out: 651.448+/-0.246 $\chi^2$/NDF:245151.8/4

Right Out: 1327.661+/-0.351 $\chi^2$/NDF: 458481.2/18

Left In: 661.003+/-0.297 $\chi^2$/NDF:250610.5/2

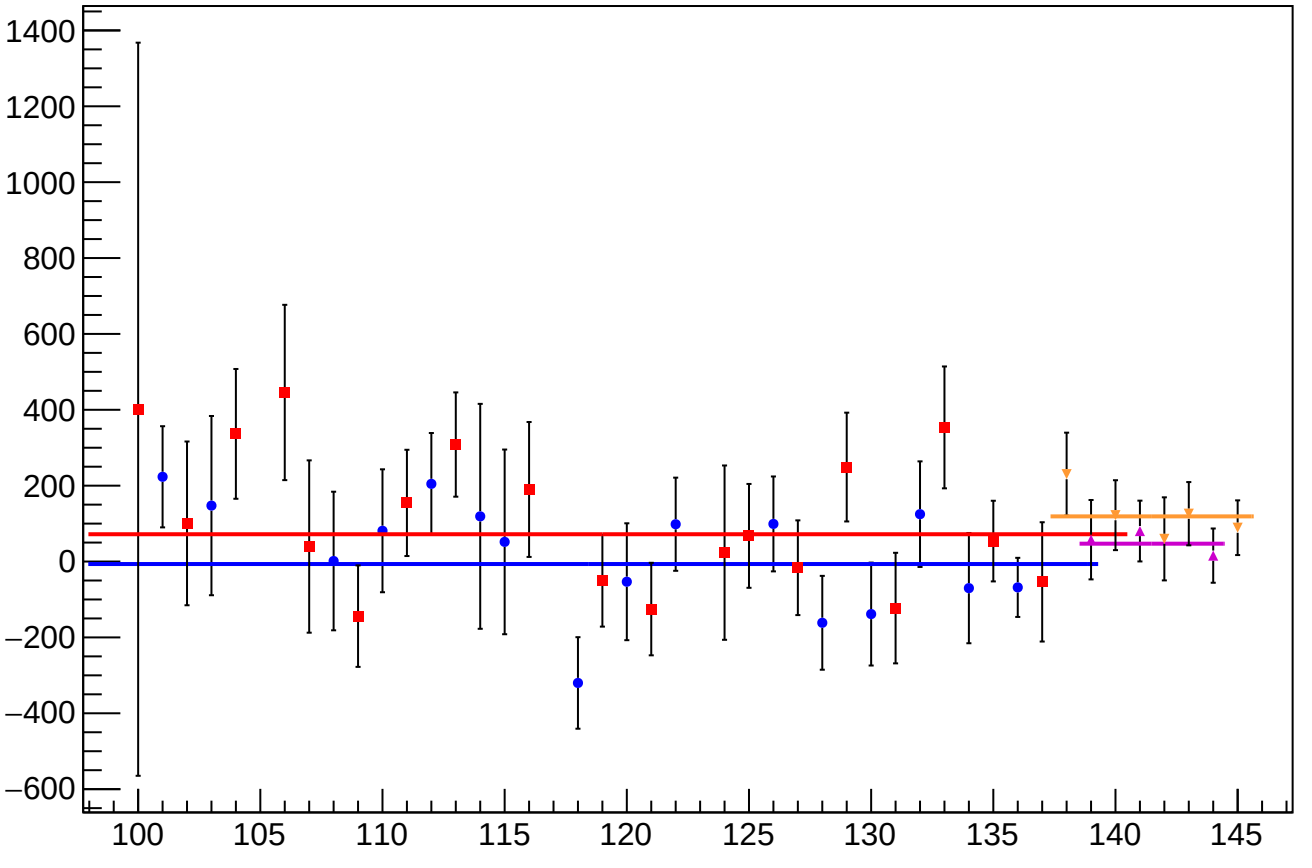
Left: 655.321+/-0.189 $\chi^2$/NDF: 496375.8/7

Right: 1299.912+/-0.246 $\chi^2$/NDF: 1068235.5/34

In: 922.991+/-0.225 $\chi^2$/NDF:2661015.3/18

Out: 873.326+/-0.201 $\chi^2$/NDF:3191033.0/23

All: 895.406+/-0.150 $\chi^2$/NDF: 5879108.3/42




Right In: -6.568+/-34.286 $\chi^2$/NDF: 18.9/15

Left Out: 119.025+/-40.131 $\chi^2$/NDF:1.5/4

Right Out: 71.981+/-34.885 $\chi^2$/NDF: 22.8/18

Left In: 47.053+/-47.524 $\chi^2$/NDF:0.4/2

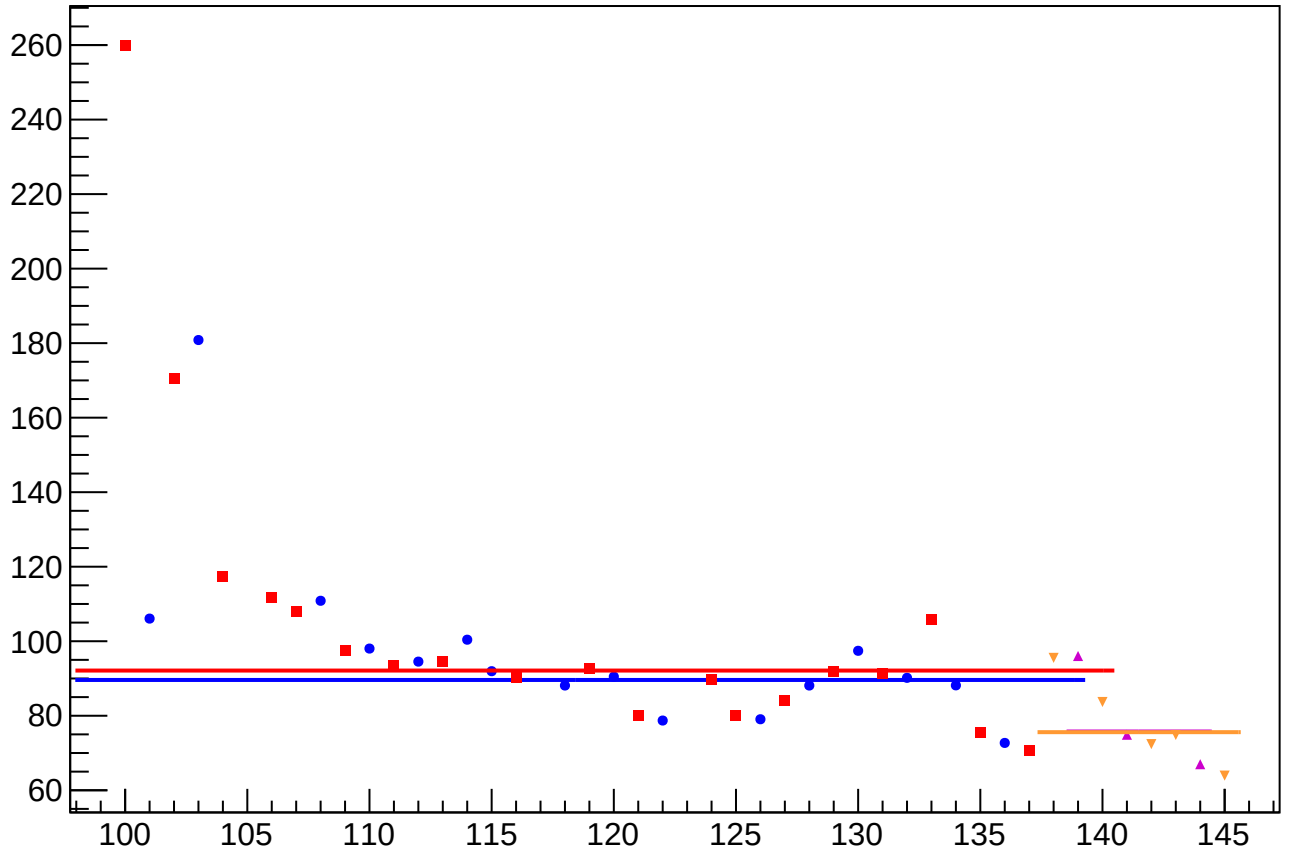
Left: 89.067+/-30.661 $\chi^2$/NDF: 3.2/7

Right: 32.026+/-24.453 $\chi^2$/NDF: 44.3/34

In: 11.787+/-27.805 $\chi^2$/NDF:20.1/18

Out: 92.229+/-26.328 $\chi^2$/NDF:25.0/23

All: 54.202+/-19.118 $\chi^2$/NDF: 49.6/42




Right In: 89.604+/-0.024 $\chi^2$/NDF: 498384.4/15

Left Out: 75.594+/-0.028 $\chi^2$/NDF:136041.5/4

Right Out: 92.129+/-0.025 $\chi^2$/NDF: 540308.7/18

Left In: 75.771+/-0.034 $\chi^2$/NDF:105369.8/2

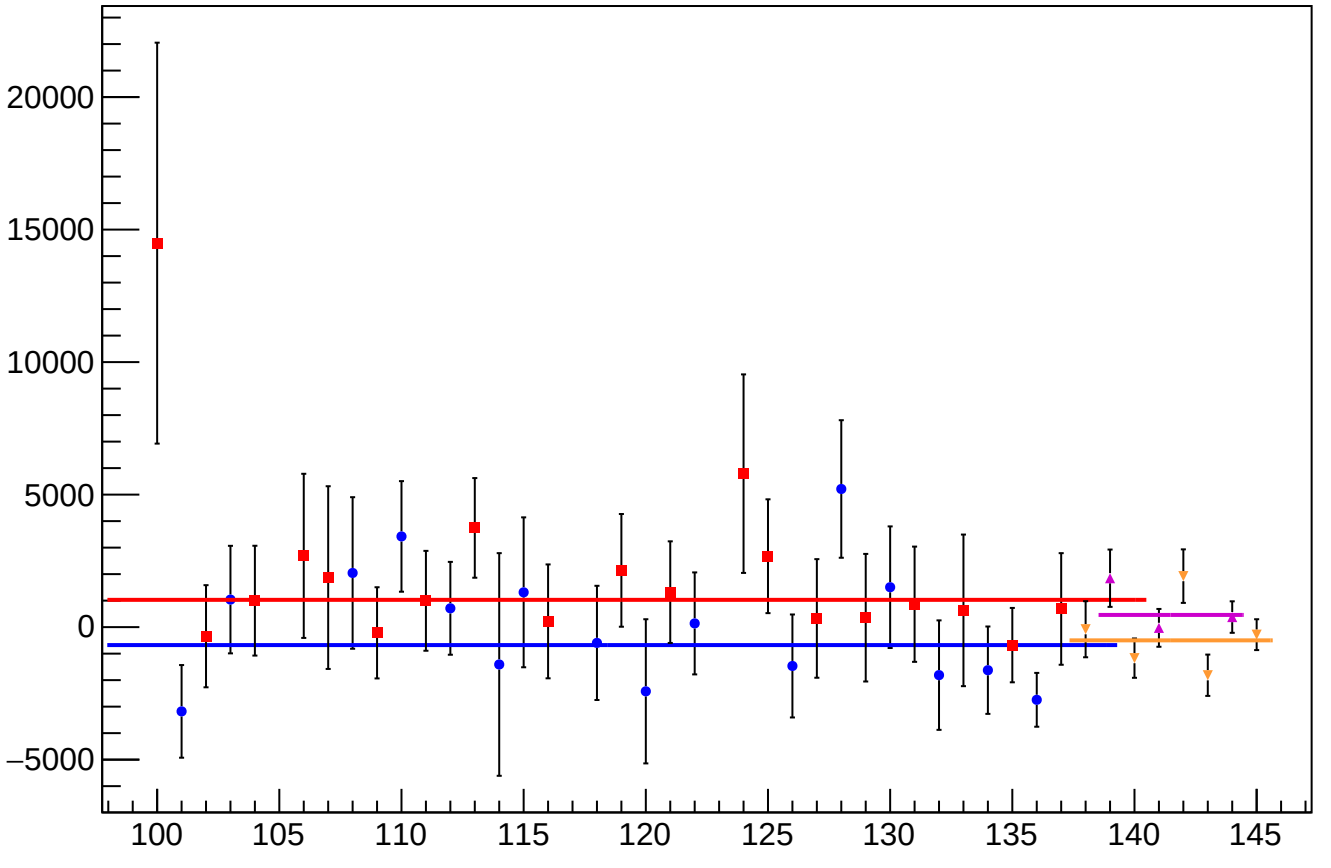
Left: 75.668+/-0.022 $\chi^2$/NDF: 241427.4/7

Right: 90.845+/-0.017 $\chi^2$/NDF: 1044025.4/34

In: 84.868+/-0.020 $\chi^2$/NDF:715196.5/18

Out: 85.012+/-0.019 $\chi^2$/NDF:869745.2/23

All: 84.944+/-0.014 $\chi^2$/NDF: 1584970.0/42




Right In: -677.345+/-486.482 $\chi^2$/NDF: 20.3/15

Left Out: -499.137+/-347.328 $\chi^2$/NDF:9.7/4

Right Out: 1029.395+/-497.018 $\chi^2$/NDF: 11.0/18

Left In: 460.101+/-420.693 $\chi^2$/NDF:2.1/2

Left: -110.320+/-267.840 $\chi^2$/NDF: 14.9/7

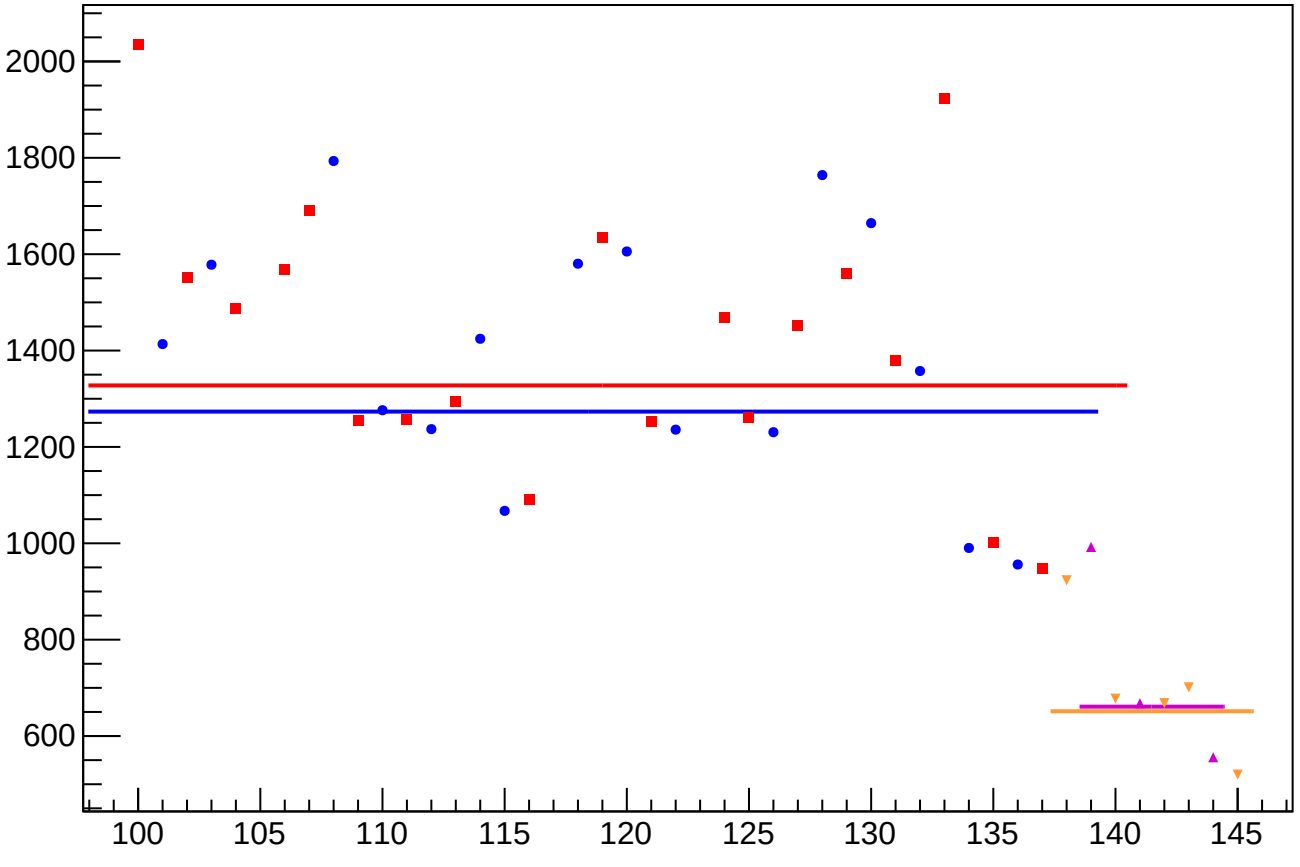
Right: 157.743+/-347.660 $\chi^2$/NDF: 37.3/34

In: -26.565+/-318.212 $\chi^2$/NDF:25.5/18

Out: 2.402+/-284.700 $\chi^2$/NDF:27.1/23

All: -10.477+/-212.175 $\chi^2$/NDF: 52.6/42

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: 651.448+/-0.246 $\chi^2$/NDF:245151.8/4

Right Out: 1327.661+/-0.351 $\chi^2$/NDF: 458481.2/18

Left In: 661.003+/-0.297 $\chi^2$/NDF:250610.5/2

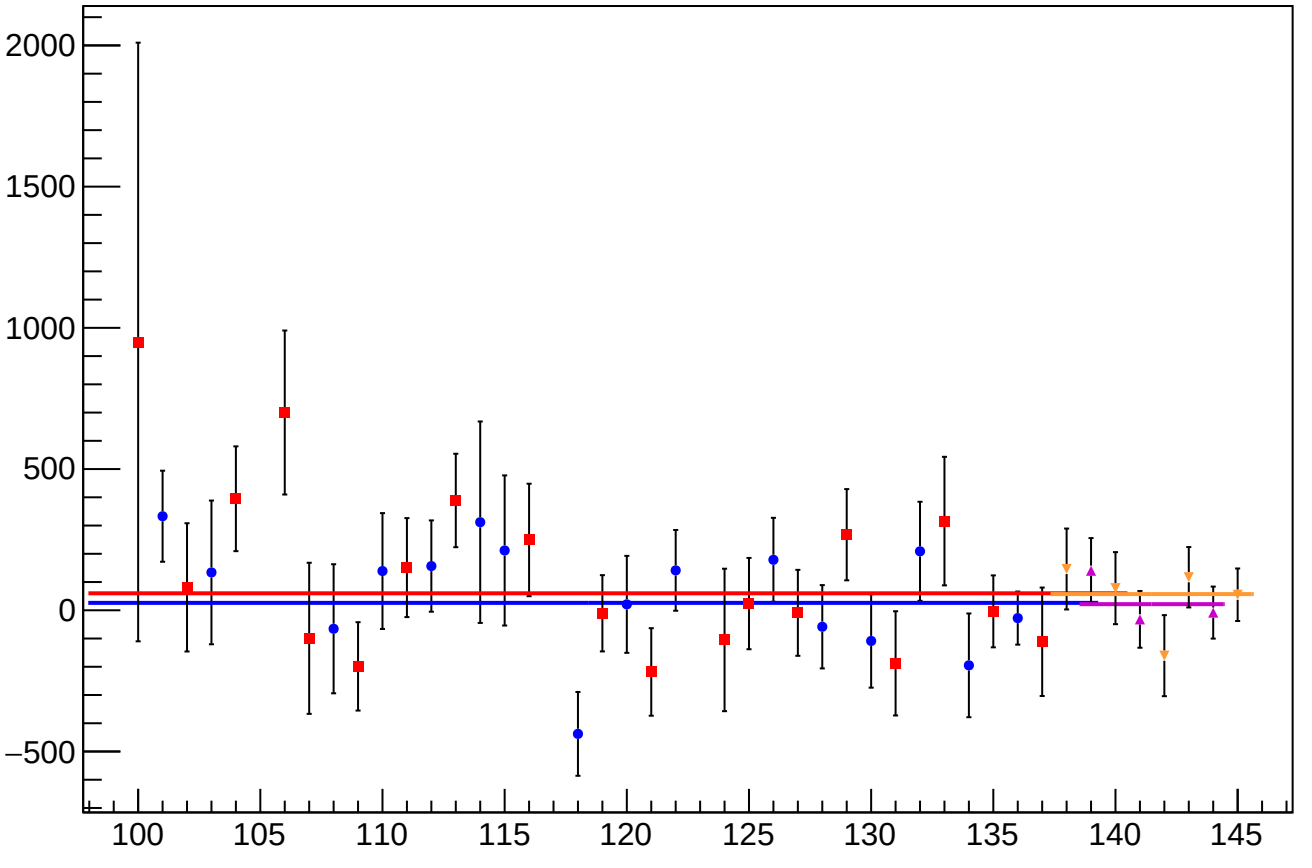
Left: 655.321+/-0.189 $\chi^2$/NDF: 496375.8/7

Right: 1299.912+/-0.246 $\chi^2$/NDF: 1068235.5/34

In: 922.991+/-0.225 $\chi^2$/NDF:2661015.3/18

Out: 873.326+/-0.201 $\chi^2$/NDF:3191033.0/23

All: 895.406+/-0.150 $\chi^2$/NDF: 5879108.3/42




Right In: 26.251+/-41.220 $\chi^2$/NDF: 21.4/15

Left Out: 57.295+/-52.557 $\chi^2$/NDF:3.0/4

Right Out: 60.119+/-41.528 $\chi^2$/NDF: 27.0/18

Left In: 21.680+/-58.530 $\chi^2$/NDF:1.4/2

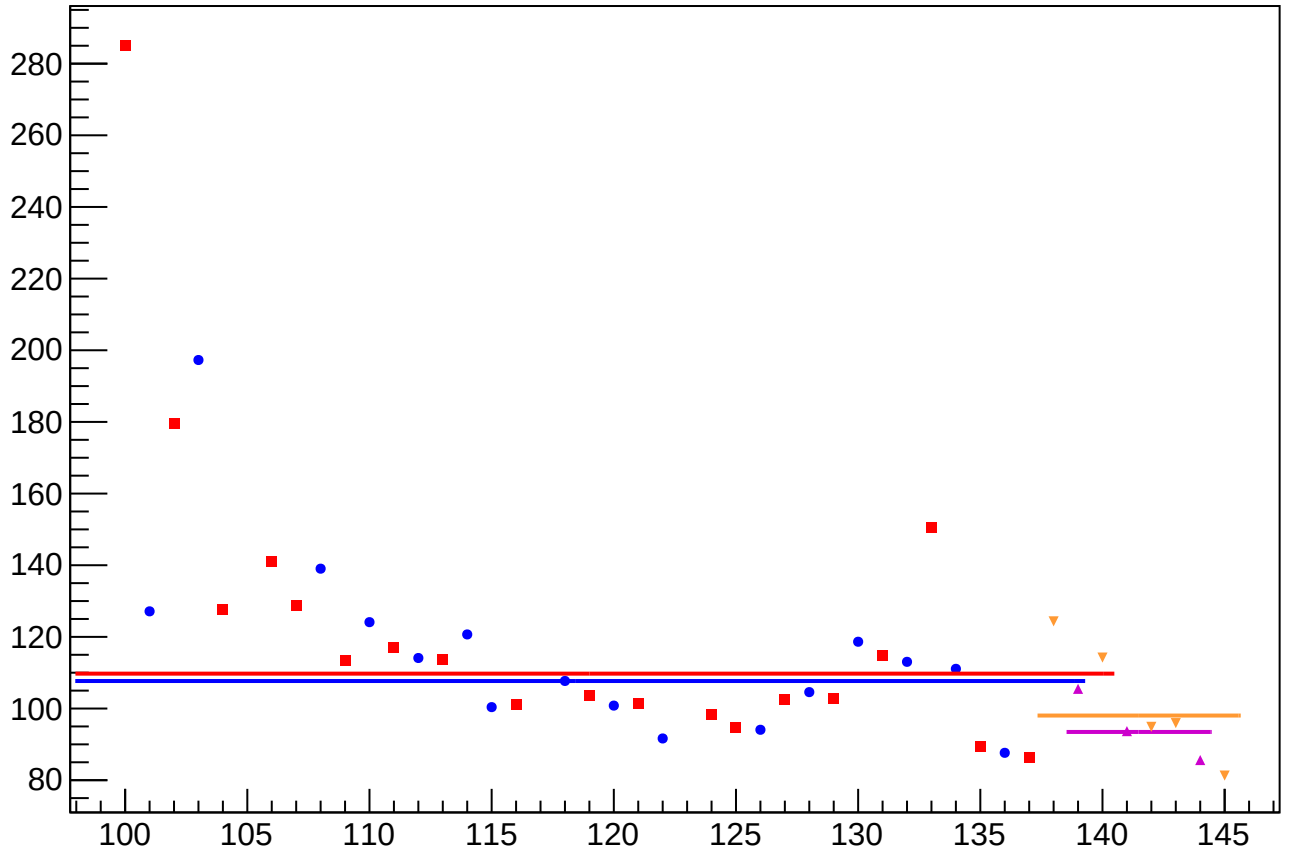
Left: 41.397+/-39.105 $\chi^2$/NDF: 4.7/7

Right: 43.059+/-29.255 $\chi^2$/NDF: 48.7/34

In: 24.735+/-33.701 $\chi^2$/NDF:22.8/18

Out: 59.034+/-32.584 $\chi^2$/NDF:30.0/23

All: 42.462+/-23.425 $\chi^2$/NDF: 53.4/42




Right In: 107.680+/-0.029 $\chi^2$/NDF: 483125.6/15

Left Out: 98.044+/-0.037 $\chi^2$/NDF:166228.7/4

Right Out: 109.739+/-0.029 $\chi^2$/NDF: 491787.3/18

Left In: 93.463+/-0.041 $\chi^2$/NDF:36200.8/2

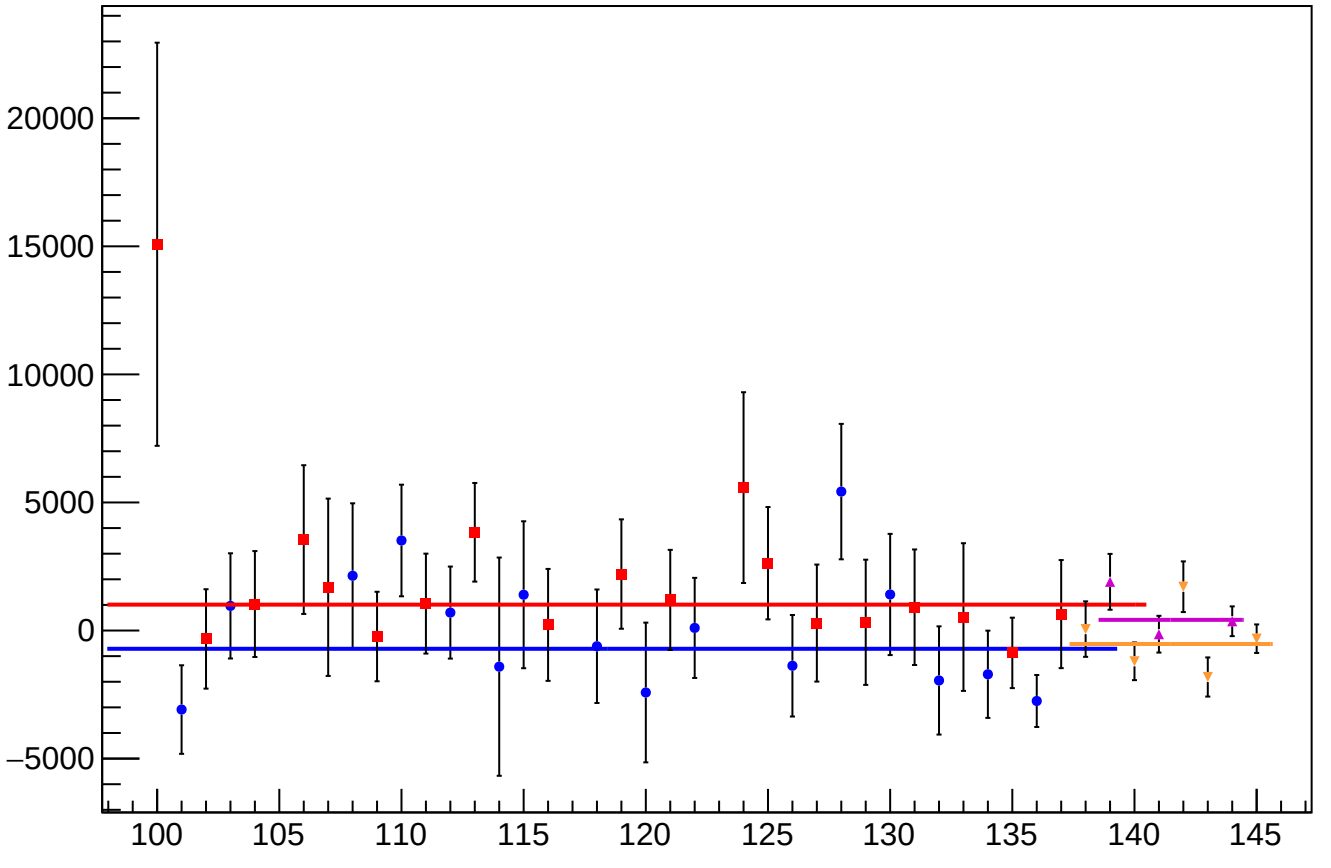
Left: 95.999+/-0.028 $\chi^2$/NDF: 209209.7/7

Right: 108.702+/-0.021 $\chi^2$/NDF: 977390.9/34

In: 102.966+/-0.024 $\chi^2$/NDF:598200.3/18

Out: 105.244+/-0.023 $\chi^2$/NDF:718991.7/23

All: 104.144+/-0.017 $\chi^2$/NDF: 1321912.3/42




Right In: -712.887+/-493.253 $\chi^2$/NDF: 20.1/15

Left Out: -526.428+/-339.794 $\chi^2$/NDF:9.2/4

Right Out: 1010.557+/-501.374 $\chi^2$/NDF: 11.8/18

Left In: 416.967+/-417.122 $\chi^2$/NDF:2.5/2

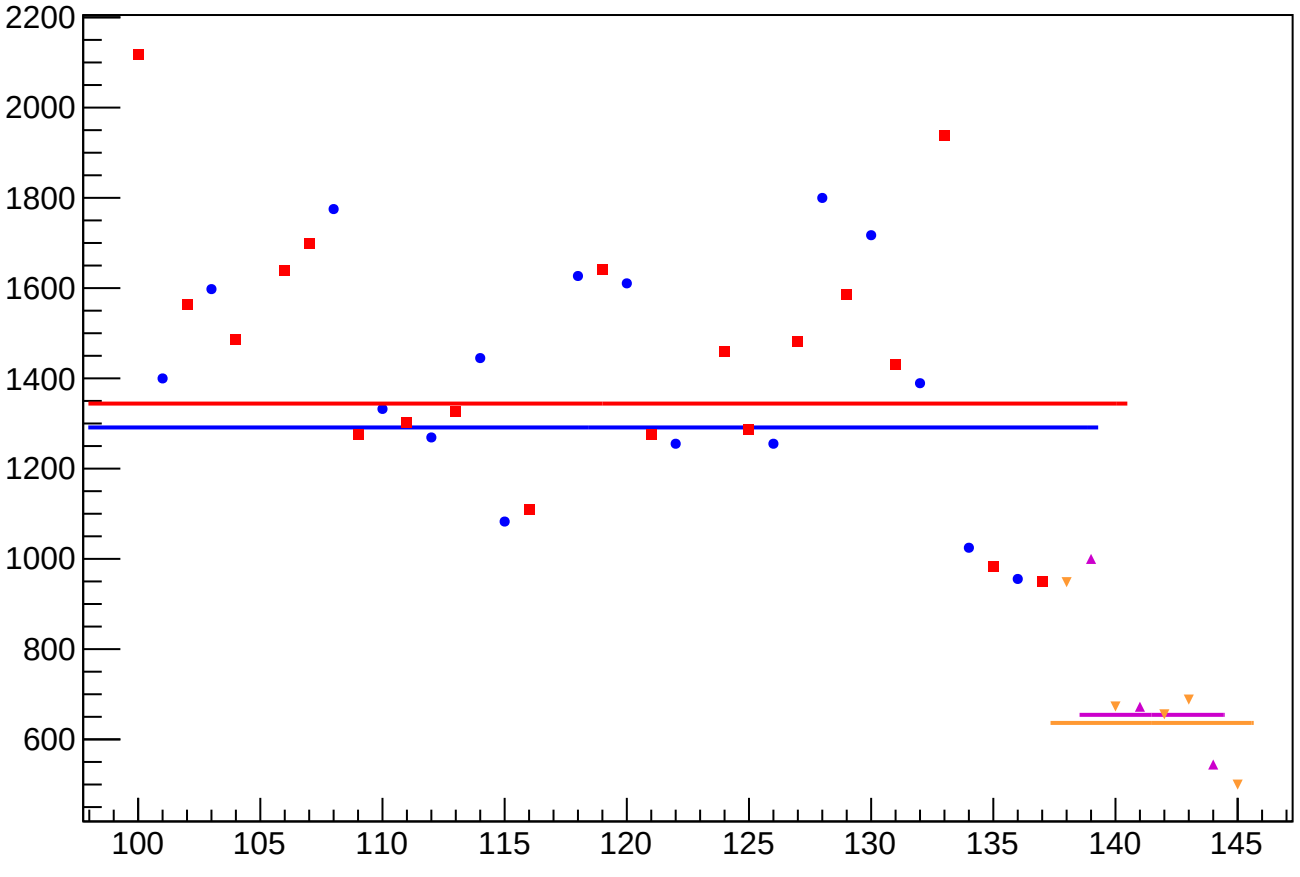
Left: -150.113+/-263.446 $\chi^2$/NDF: 14.8/7

Right: 134.764+/-351.618 $\chi^2$/NDF: 37.9/34

In: -54.131+/-318.503 $\chi^2$/NDF:25.6/18

Out: -42.667+/-281.282 $\chi^2$/NDF:27.4/23

All: -47.690+/-210.834 $\chi^2$/NDF: 53.1/42




Right In: 1291.223+/-0.349 $\chi^2$/NDF: 610897.3/15

Left Out: 636.473+/-0.240 $\chi^2$/NDF:301257.7/4

Right Out: 1344.118+/-0.355 $\chi^2$/NDF: 490963.7/18

Left In: 654.389+/-0.295 $\chi^2$/NDF:274149.0/2

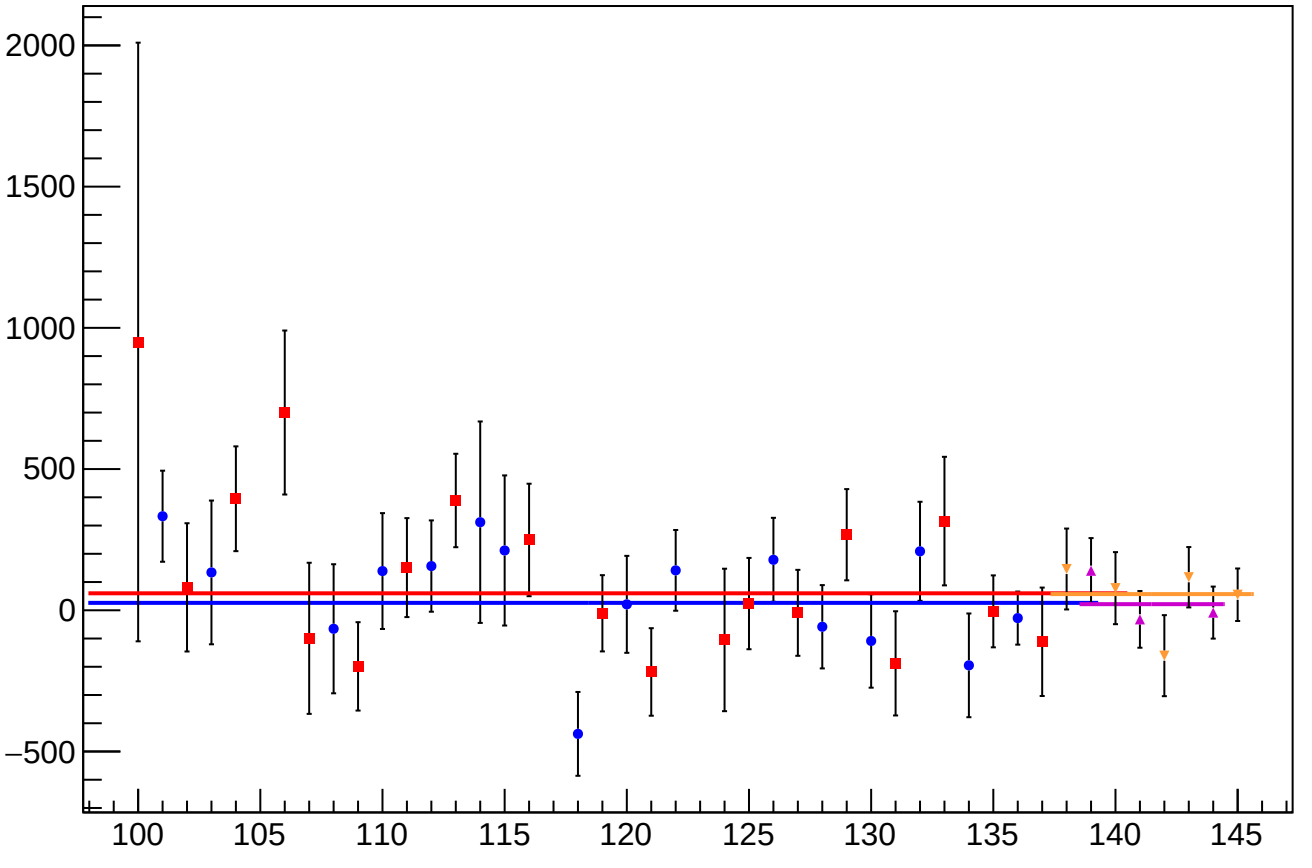
Left: 643.620+/-0.186 $\chi^2$/NDF: 577624.6/7

Right: 1317.239+/-0.249 $\chi^2$/NDF: 1113173.0/34

In: 919.920+/-0.225 $\chi^2$/NDF:2828819.4/18

Out: 859.202+/-0.199 $\chi^2$/NDF:3522385.6/23

All: 885.807+/-0.149 $\chi^2$/NDF: 6392040.4/42




Right In: 26.252+/-41.219 $\chi^2$/NDF: 21.4/15

Left Out: 57.294+/-52.557 $\chi^2$/NDF:3.0/4

Right Out: 60.117+/-41.528 $\chi^2$/NDF: 27.0/18

Left In: 21.680+/-58.530 $\chi^2$/NDF:1.4/2

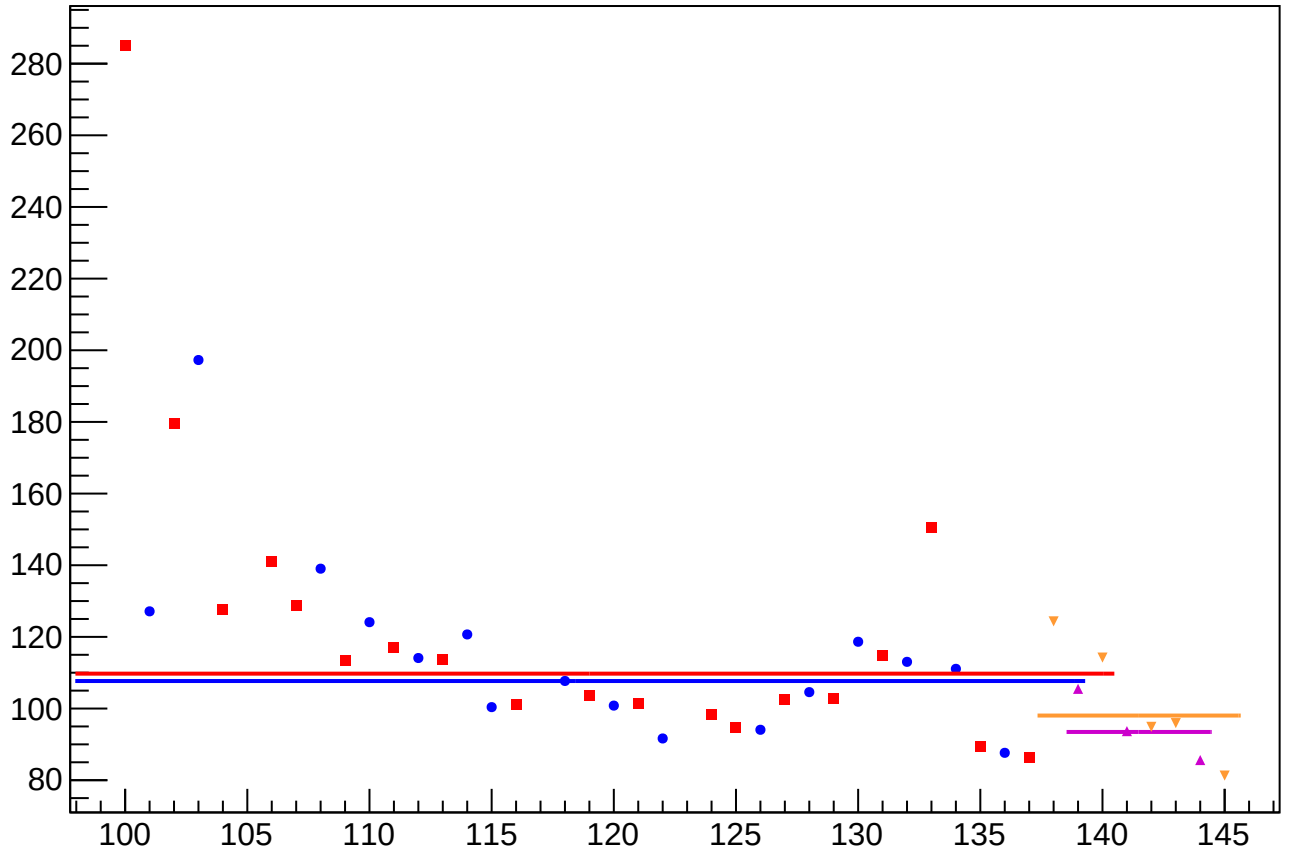
Left: 41.396+/-39.105 $\chi^2$/NDF: 4.7/7

Right: 43.058+/-29.255 $\chi^2$/NDF: 48.7/34

In: 24.736+/-33.701 $\chi^2$/NDF:22.8/18

Out: 59.032+/-32.584 $\chi^2$/NDF:30.0/23

All: 42.462+/-23.425 $\chi^2$/NDF: 53.4/42




Right In: 107.679+/-0.029 $\chi^2$/NDF: 483112.2/15

Left Out: 98.044+/-0.037 $\chi^2$/NDF:166215.6/4

Right Out: 109.739+/-0.029 $\chi^2$/NDF: 491784.5/18

Left In: 93.464+/-0.041 $\chi^2$/NDF:36197.5/2

Left: 95.999+/-0.028 $\chi^2$/NDF: 209193.9/7

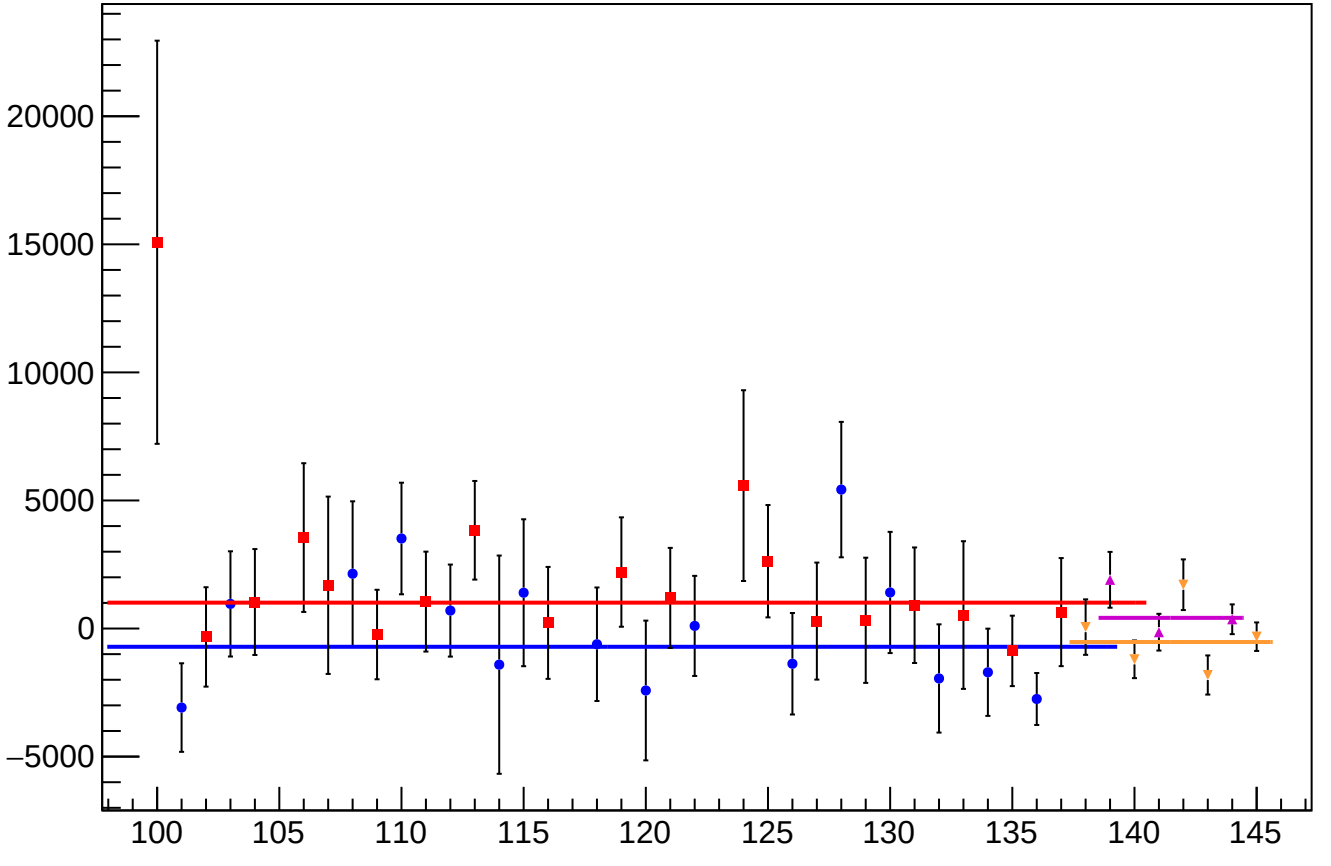
Right: 108.701+/-0.021 $\chi^2$/NDF: 977375.0/34

In: 102.966+/-0.024 $\chi^2$/NDF:598172.1/18

Out: 105.244+/-0.023 $\chi^2$/NDF:718963.5/23

All: 104.143+/-0.017 $\chi^2$/NDF: 1321856.8/42

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: -526.430+/-339.793 $\chi^2$/NDF:9.2/4

Right Out: 1010.556+/-501.373 $\chi^2$/NDF: 11.8/18

Left In: 416.968+/-417.121 $\chi^2$/NDF:2.5/2

Left: -150.115+/-263.445 $\chi^2$/NDF: 14.8/7

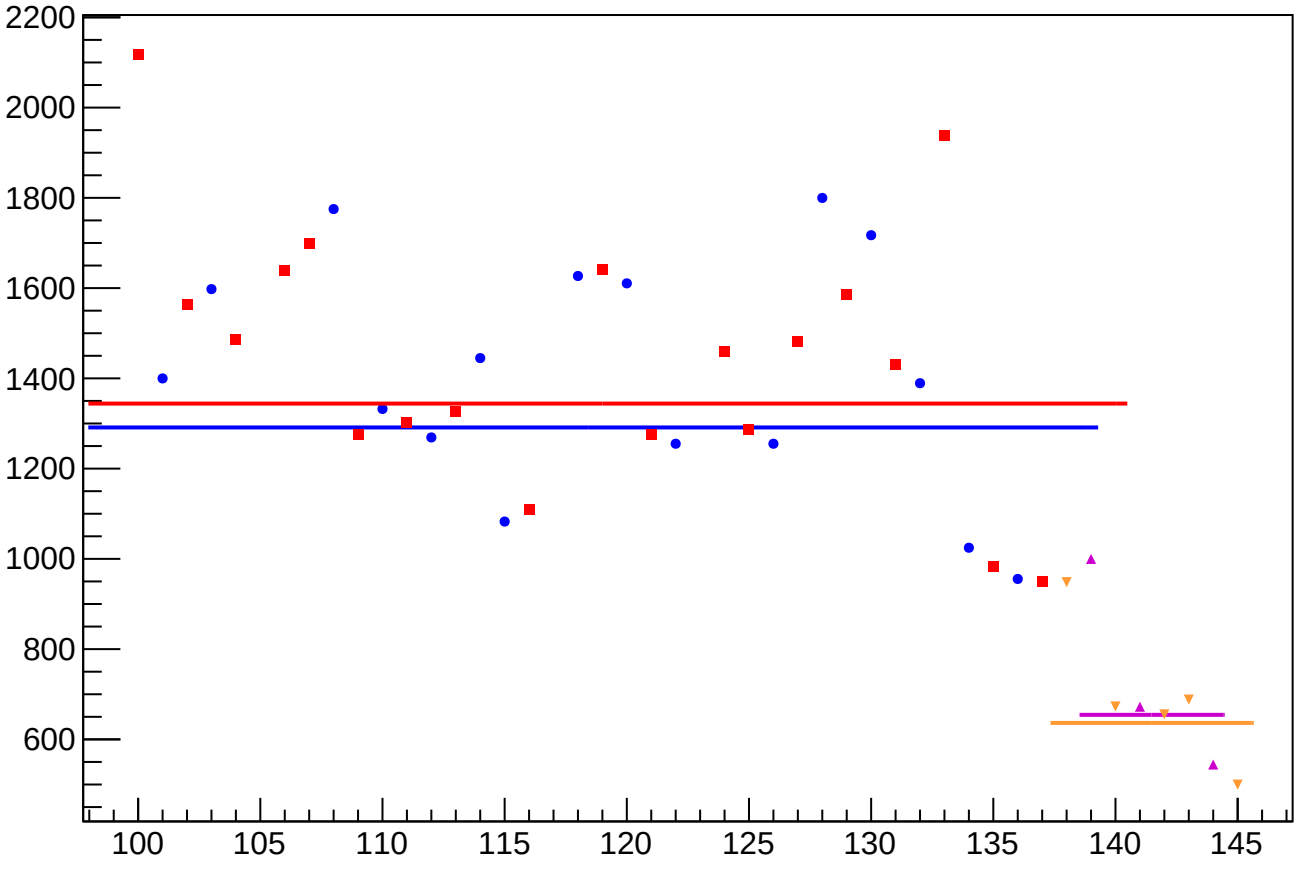
Right: 134.766+/-351.618 $\chi^2$/NDF: 37.9/34

In: -54.128+/-318.503 $\chi^2$/NDF:25.6/18

Out: -42.670+/-281.281 $\chi^2$/NDF:27.4/23

All: -47.691+/-210.833 $\chi^2$/NDF: 53.1/42

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: 636.471+/-0.240 $\chi^2$/NDF:301259.3/4

Right Out: 1344.115+/-0.355 $\chi^2$/NDF: 490963.4/18

Left In: 654.388+/-0.295 $\chi^2$/NDF:274147.7/2

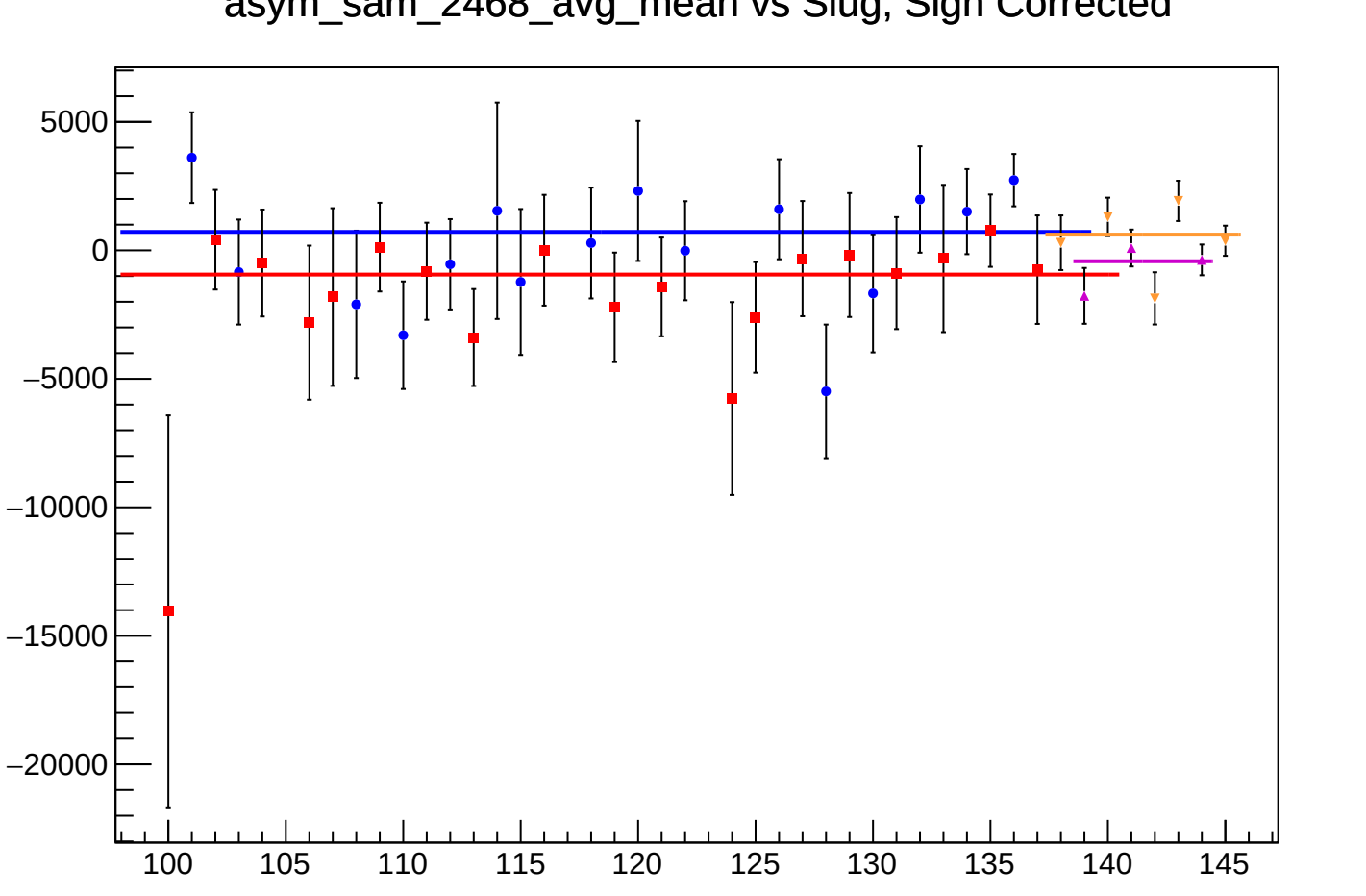
Left: 643.618+/-0.186 $\chi^2$/NDF: 577624.9/7

Right: 1317.235+/-0.249 $\chi^2$/NDF: 1113170.2/34

In: 919.918+/-0.225 $\chi^2$/NDF:2828815.7/18

Out: 859.199+/-0.199 $\chi^2$/NDF:3522390.9/23

All: 885.805+/-0.149 $\chi^2$/NDF: 6392042.8/42




Right In: 717.617+/-488.239 $\chi^2$/NDF: 21.0/15

Left Out: 611.536+/-349.772 $\chi^2$/NDF:9.9/4

Right Out: -942.308+/-498.052 $\chi^2$/NDF: 10.6/18

Left In: -423.694+/-423.497 $\chi^2$/NDF:2.1/2

Left: 191.732+/-269.684 $\chi^2$/NDF: 15.5/7

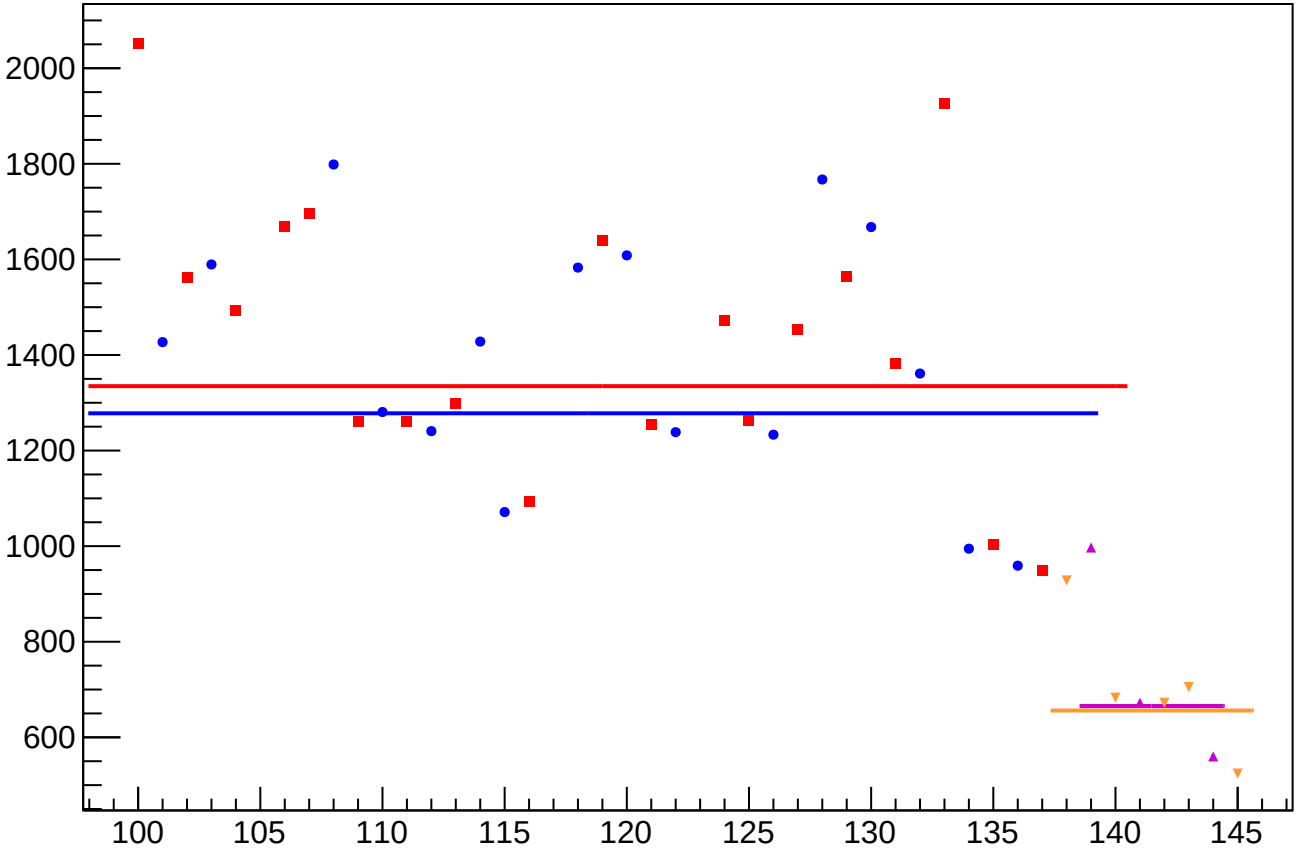
Right: -95.832+/-348.655 $\chi^2$/NDF: 37.2/34

In: 66.324+/-319.916 $\chi^2$/NDF:26.1/18

Out: 98.307+/-286.237 $\chi^2$/NDF:27.0/23

All: 84.087+/-213.317 $\chi^2$/NDF: 53.1/42

# asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 1277.979+/-0.345 $\chi^2$/NDF: 597666.8/15

Left Out: 656.120+/-0.247 $\chi^2$/NDF:243126.3/4

Right Out: 1334.775+/-0.352 $\chi^2$/NDF: 471897.2/18

Left In: 665.569+/-0.299 $\chi^2$/NDF:248567.0/2

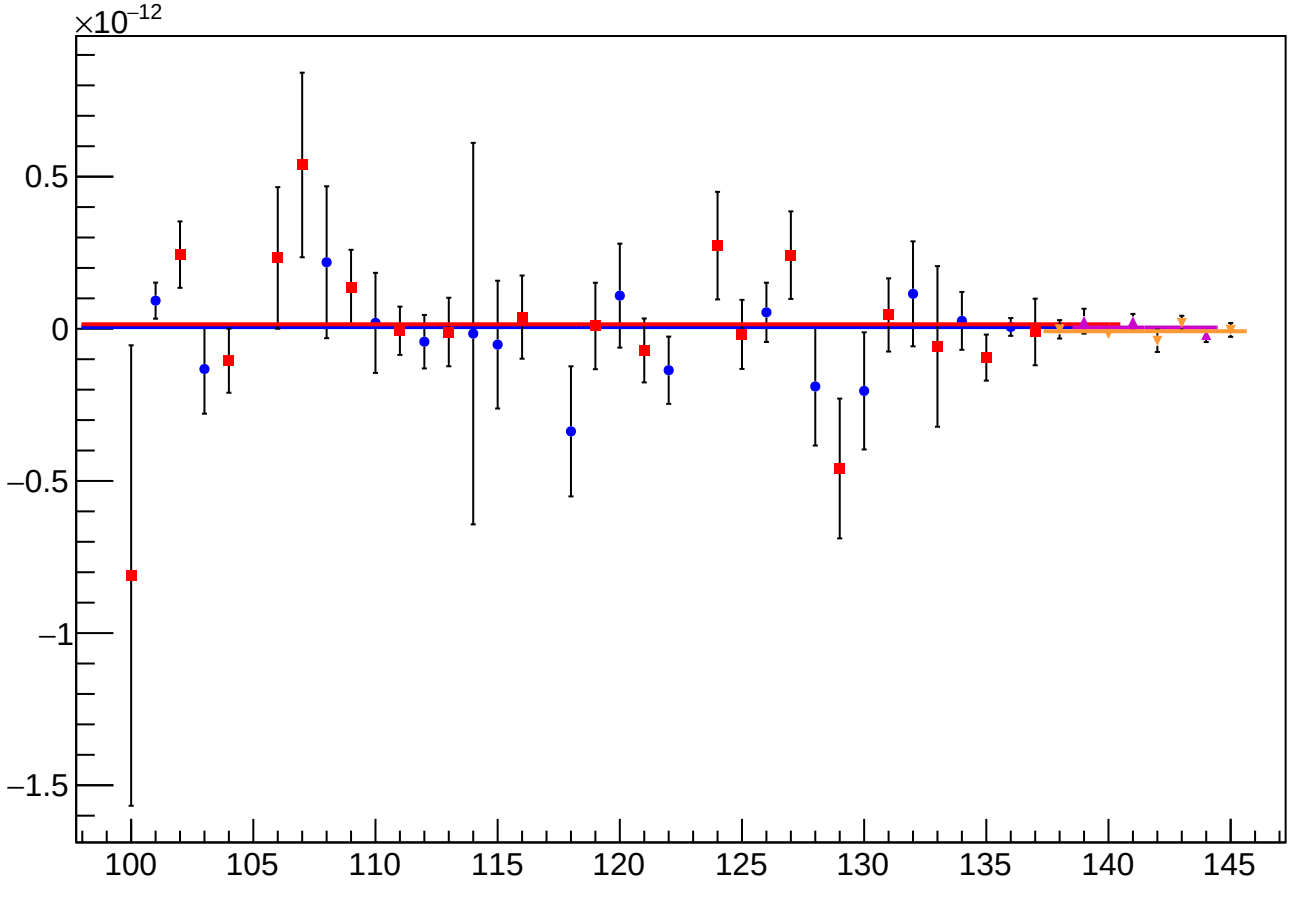
Left: 659.952+/-0.191 $\chi^2$/NDF: 492285.2/7

Right: 1305.812+/-0.247 $\chi^2$/NDF: 1082827.2/34

In: 928.505+/-0.226 $\chi^2$/NDF:2641887.5/18

Out: 880.277+/-0.202 $\chi^2$/NDF:3201946.0/23

All: 901.720+/-0.151 $\chi^2$/NDF: 5869077.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.6/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:2.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.0/2

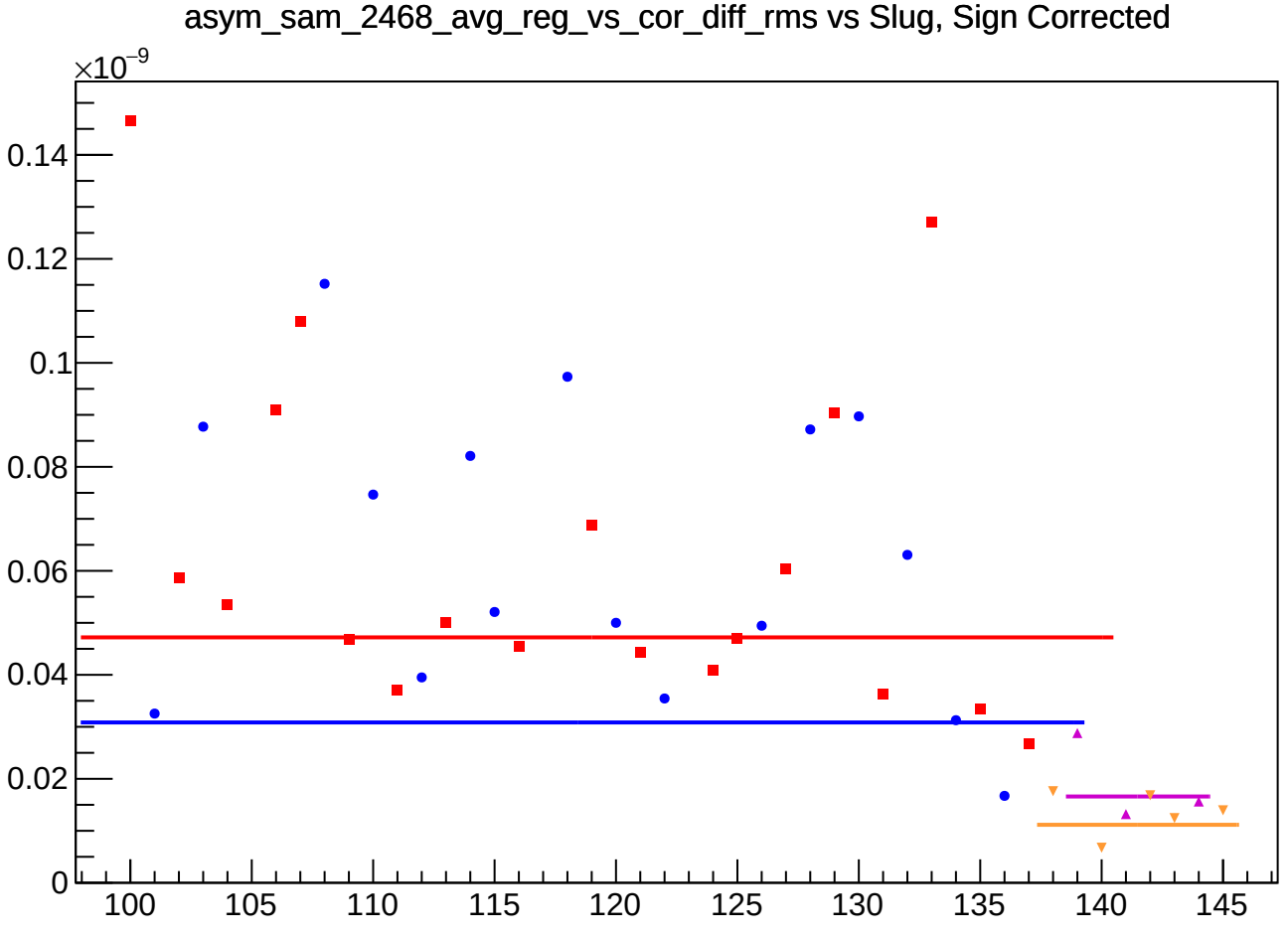
Left: -0.000+/-0.000 $\chi^2$/NDF: 4.9/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 35.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:13.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:26.8/23

All: -0.000+/-0.000 $\chi^2$/NDF: 40.9/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1912879.1/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:343312.0/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 722091.3/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:218594.3/2

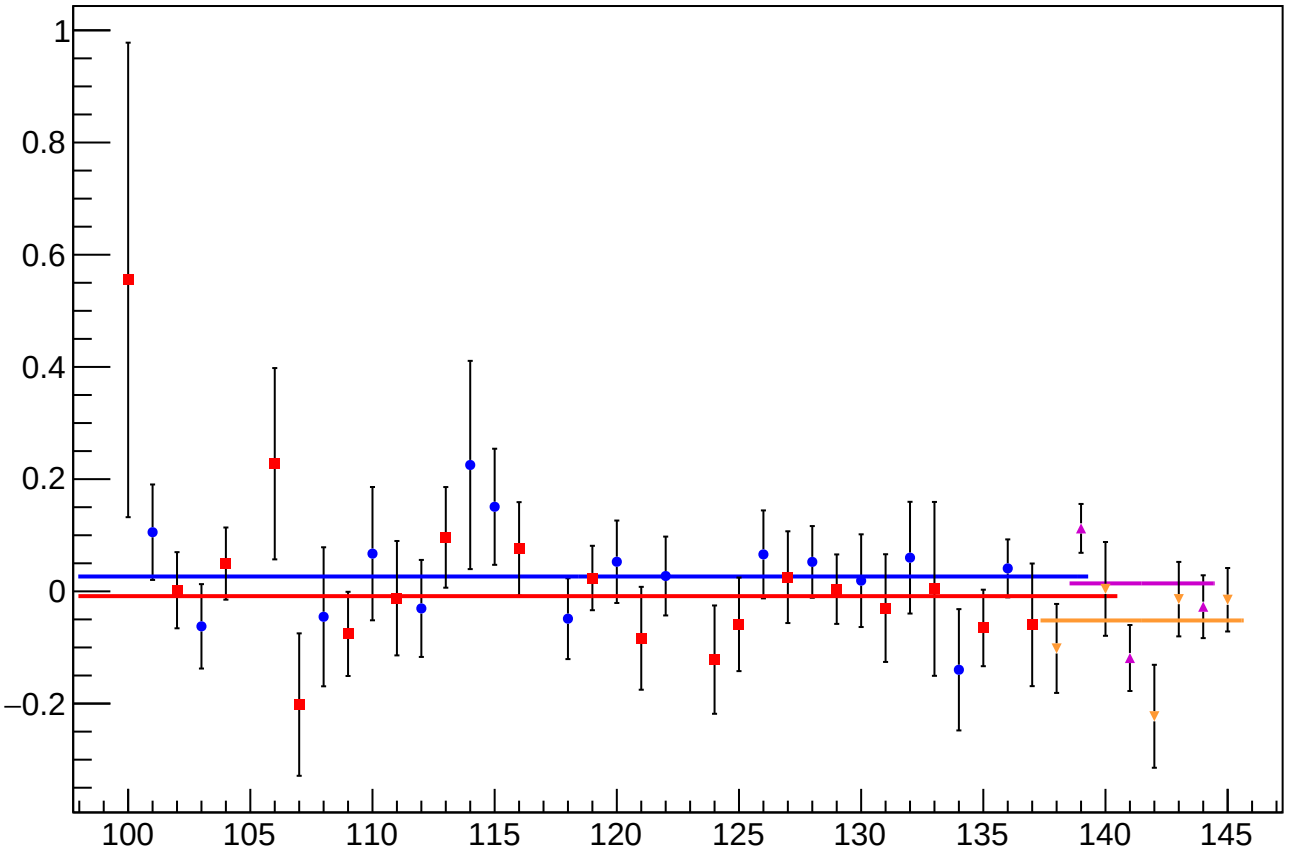
Left: 0.000+/-0.000 $\chi^2$/NDF: 732931.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 3051679.0/34

In: 0.000+/-0.000 $\chi^2$/NDF:2702200.3/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3888244.0/23

All: 0.000+/-0.000 $\chi^2$/NDF: 6916663.0/42




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: -0.052+/-0.032 $\chi^2$/NDF:5.1/4

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.014+/-0.030 $\chi^2$/NDF:10.7/2

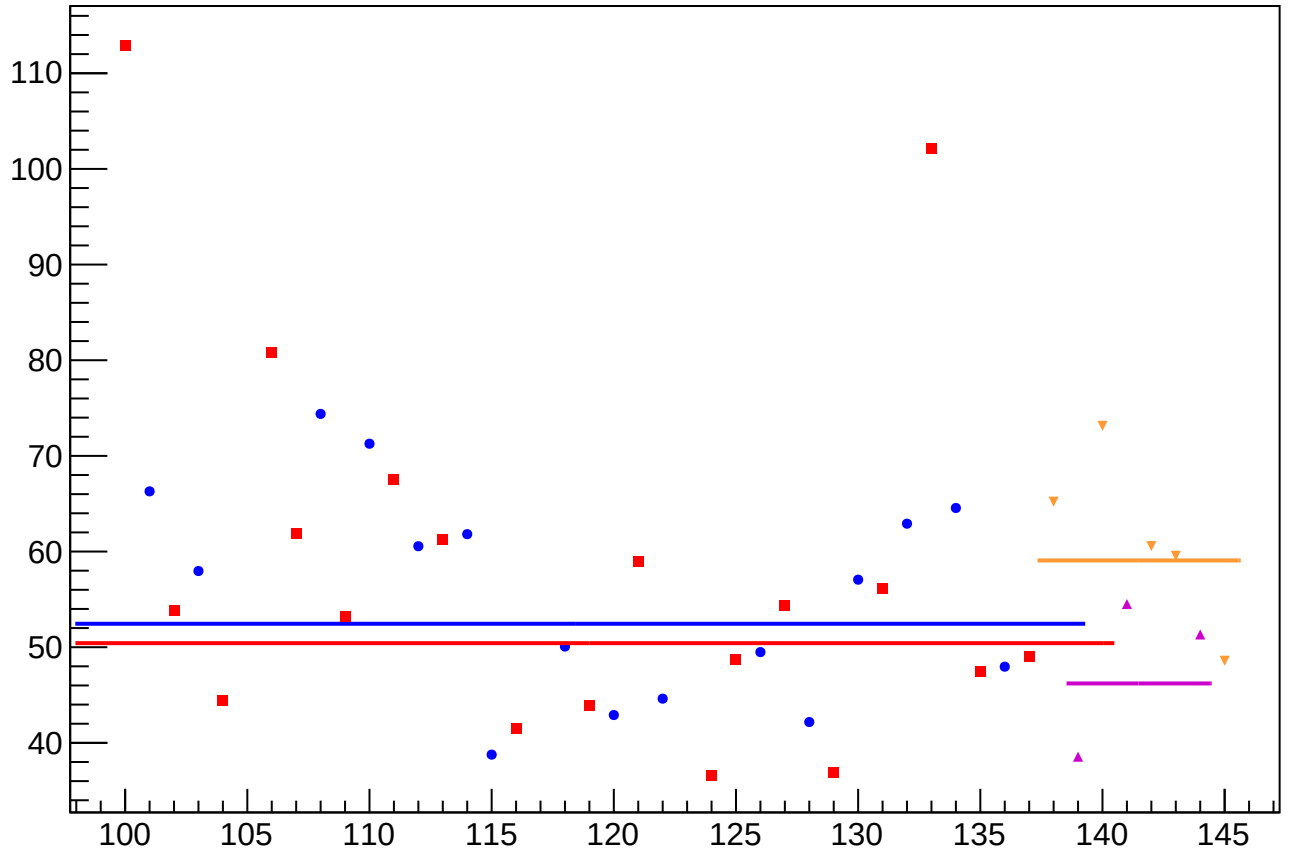
Left: -0.016+/-0.022 $\chi^2$/NDF: 18.1/7

Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.023+/-0.017 $\chi^2$/NDF:20.8/18

Out: -0.020+/-0.017 $\chi^2$/NDF:20.3/23

All: 0.001+/-0.012 $\chi^2$/NDF: 44.4/42




Right In: 52.451+/-0.014 $\chi^2$/NDF: 418014.5/15

Left Out: 59.069+/-0.023 $\chi^2$/NDF:138041.3/4

Right Out: 50.423+/-0.014 $\chi^2$/NDF: 676747.2/18

Left In: 46.211+/-0.021 $\chi^2$/NDF:118426.3/2

Left: 52.103+/-0.015 $\chi^2$/NDF: 428517.4/7

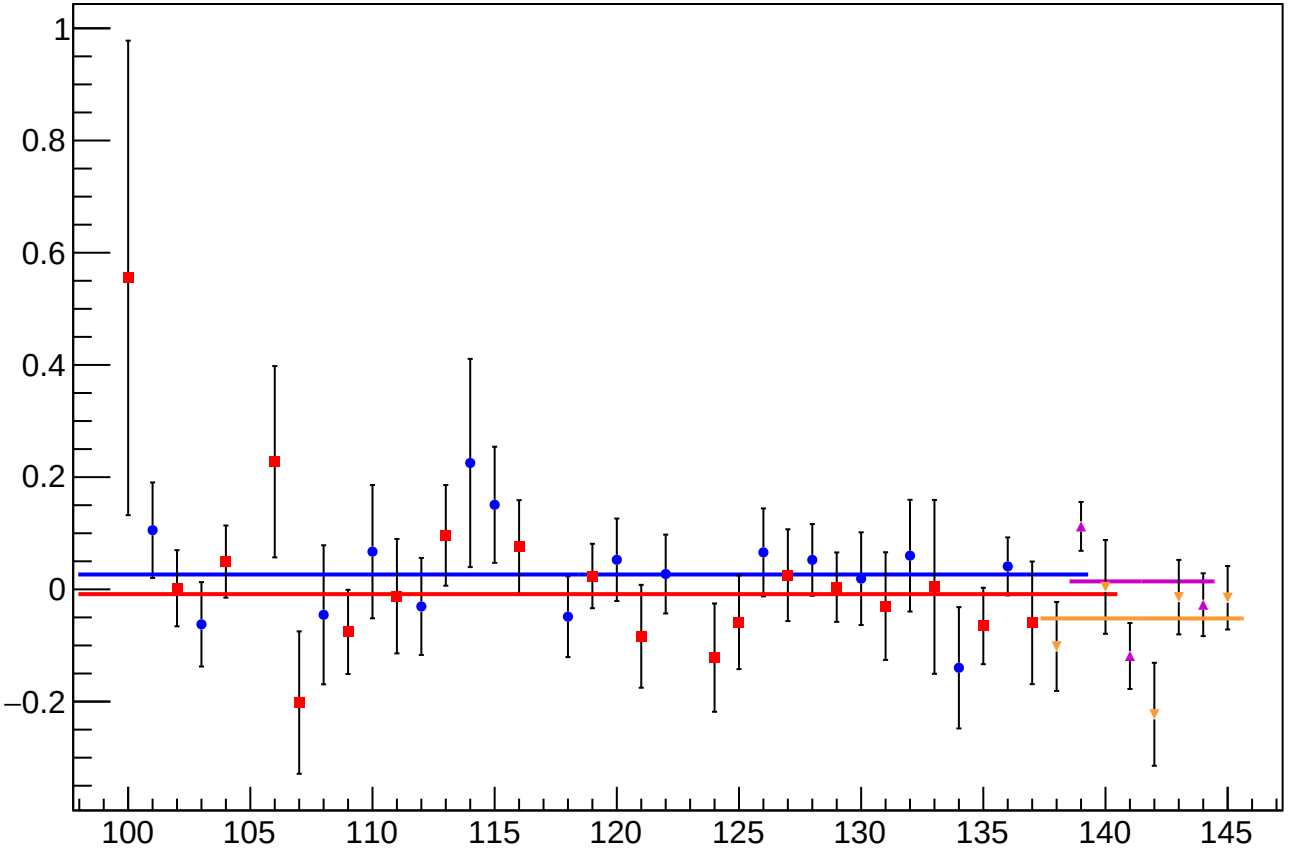
Right: 51.390+/-0.010 $\chi^2$/NDF: 1105100.5/34

In: 50.448+/-0.012 $\chi^2$/NDF:596489.0/18

Out: 52.732+/-0.012 $\chi^2$/NDF:920033.6/23

All: 51.599+/-0.008 $\chi^2$/NDF: 1535123.0/42

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: -0.052+/-0.032 $\chi^2$/NDF:5.1/4

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.014+/-0.030 $\chi^2$/NDF:10.7/2

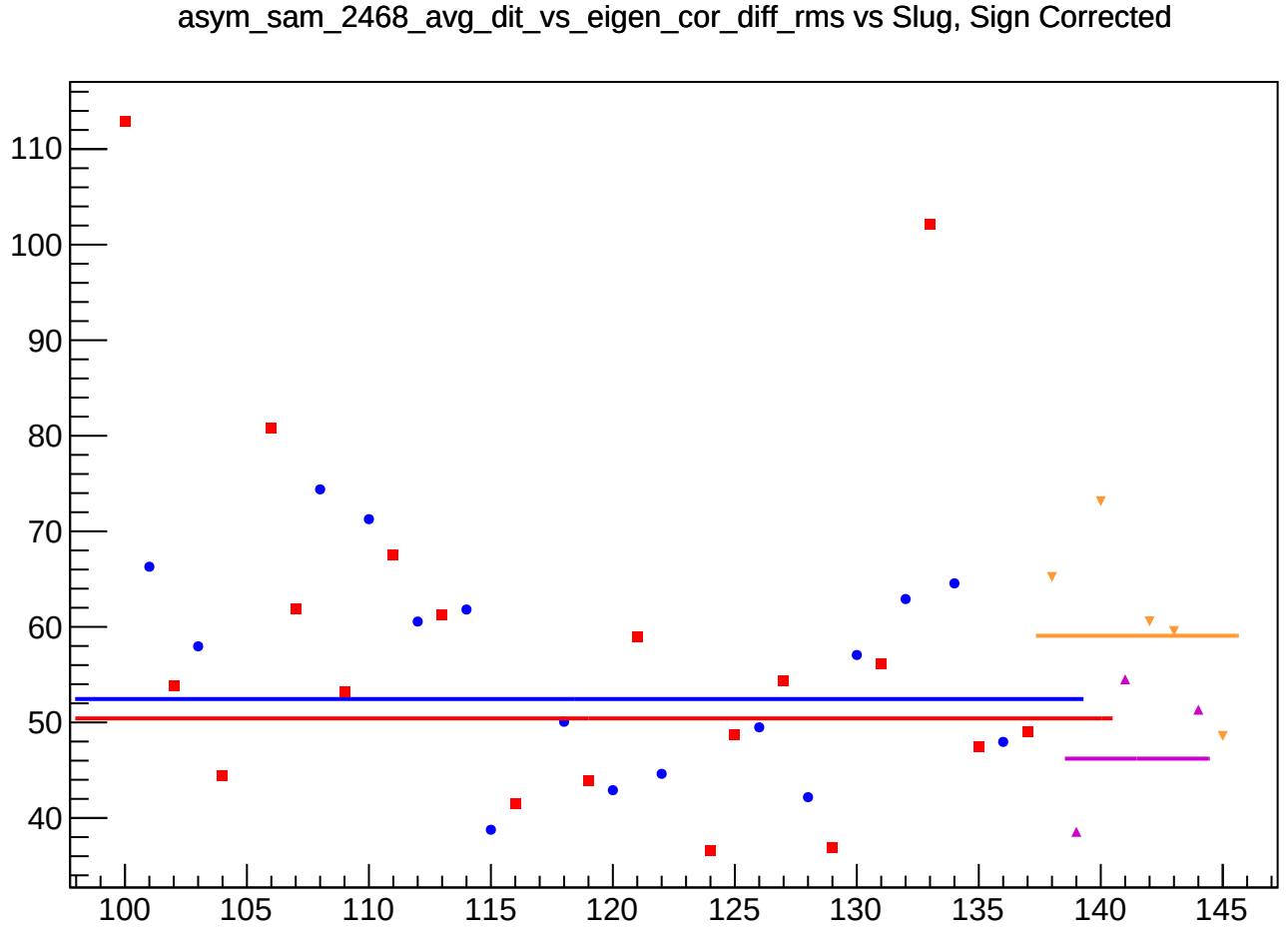
Left: -0.016+/-0.022 $\chi^2$/NDF: 18.1/7

Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.023+/-0.017 $\chi^2$/NDF:20.8/18

Out: -0.020+/-0.017 $\chi^2$/NDF:20.3/23

All: 0.001+/-0.012 $\chi^2$/NDF: 44.4/42




Right In: 52.451+/-0.014 $\chi^2$/NDF: 418014.5/15

Left Out: 59.069+/-0.023 $\chi^2$/NDF:138041.3/4

Right Out: 50.423+/-0.014 $\chi^2$/NDF: 676747.2/18

Left In: 46.211+/-0.021 $\chi^2$/NDF:118426.3/2

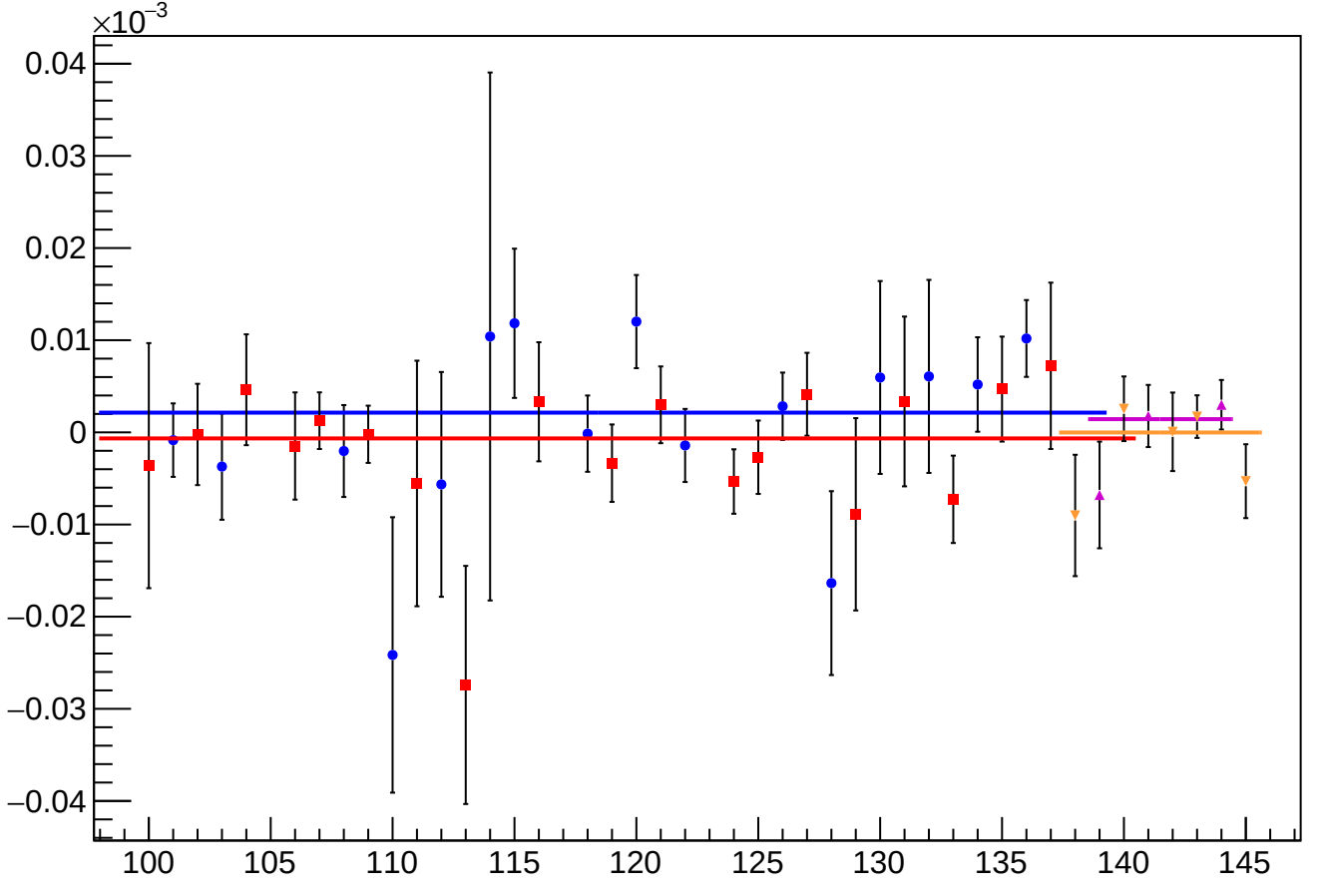
Left: 52.103+/-0.015 $\chi^2$/NDF: 428517.4/7

Right: 51.390+/-0.010 $\chi^2$/NDF: 1105100.5/34

In: 50.448+/-0.012 $\chi^2$/NDF:596489.0/18

Out: 52.732+/-0.012 $\chi^2$/NDF:920033.6/23

All: 51.599+/-0.008 $\chi^2$/NDF: 1535123.0/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.1/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:4.7/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 14.8/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:2.4/2

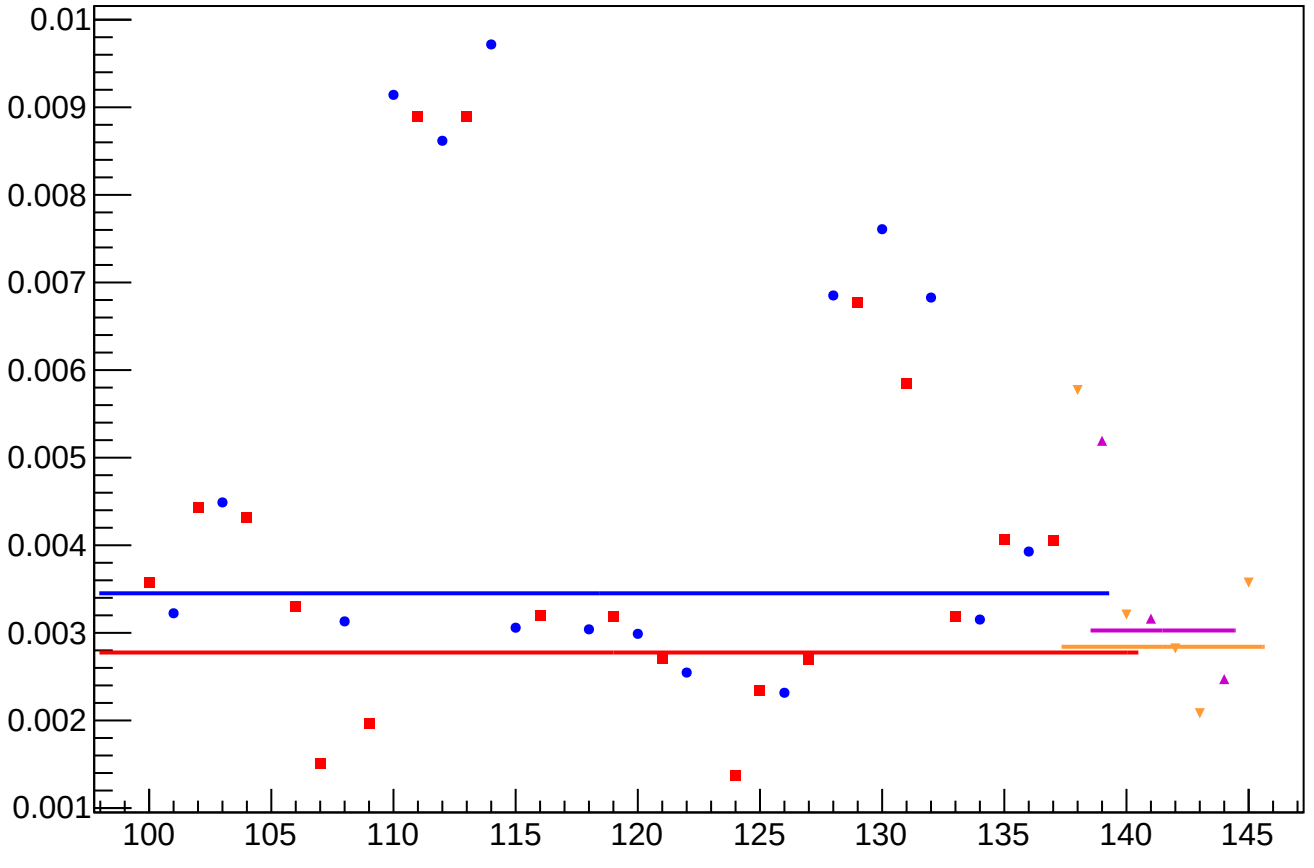
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.4/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:22.5/18

Out: -0.000+/-0.000 $\chi^2$/NDF:19.6/23

All: 0.000+/-0.000 $\chi^2$/NDF: 44.7/42




Right In: 0.003+/-0.000 $\chi^2$/NDF: 1951102.6/15

Left Out: 0.003+/-0.000 $\chi^2$/NDF:700548.2/4

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 2734939.6/18

Left In: 0.003+/-0.000 $\chi^2$/NDF:368308.1/2

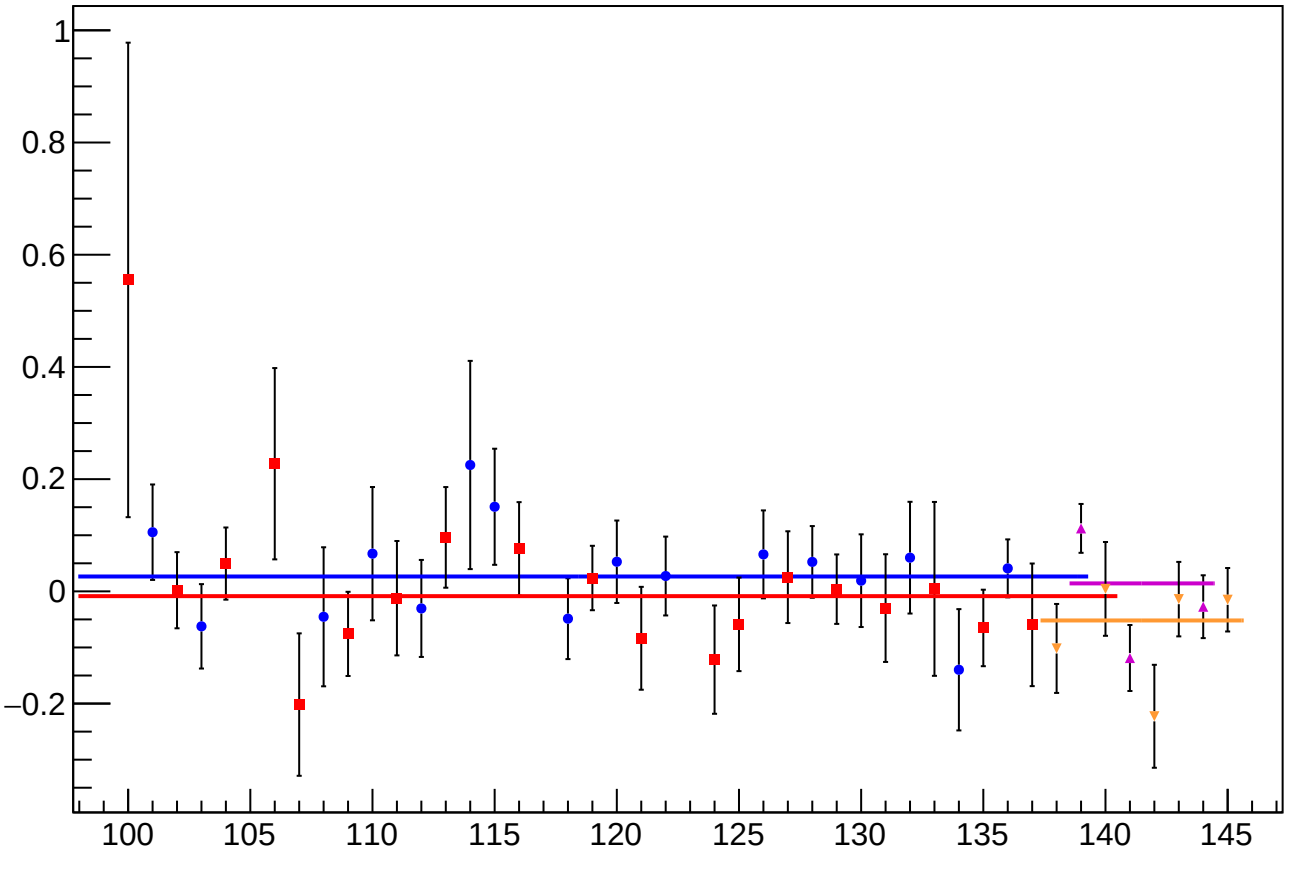
Left: 0.003+/-0.000 $\chi^2$/NDF: 1079754.0/7

Right: 0.003+/-0.000 $\chi^2$/NDF: 4968092.4/34

In: 0.003+/-0.000 $\chi^2$/NDF:2381239.4/18

Out: 0.003+/-0.000 $\chi^2$/NDF:3437754.7/23

All: 0.003+/-0.000 $\chi^2$/NDF: 6064572.2/42




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: -0.052+/-0.032 $\chi^2$/NDF:5.1/4

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.014+/-0.030 $\chi^2$/NDF:10.7/2

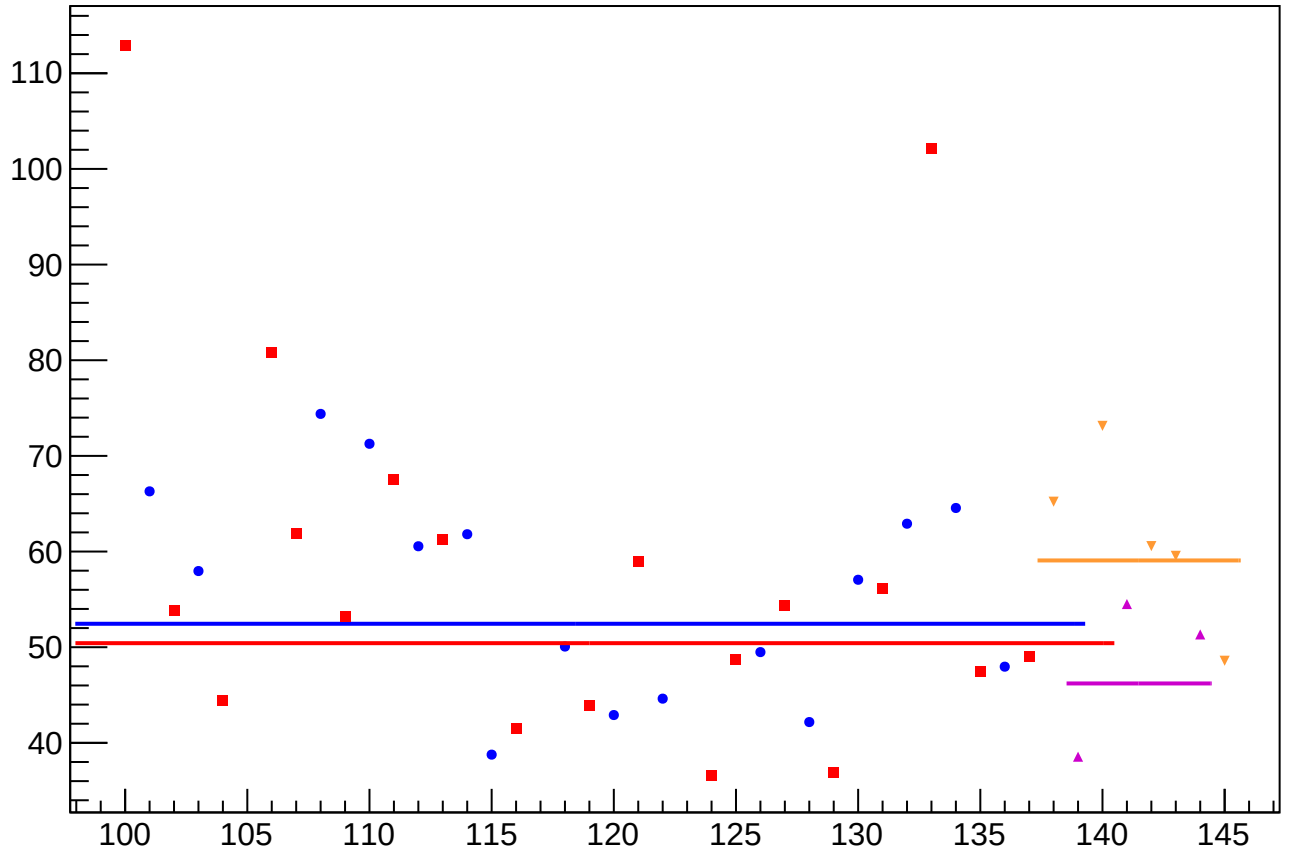
Left: -0.016+/-0.022 $\chi^2$/NDF: 18.1/7

Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.023+/-0.017 $\chi^2$/NDF:20.8/18

Out: -0.020+/-0.017 $\chi^2$/NDF:20.3/23

All: 0.001+/-0.012 $\chi^2$/NDF: 44.4/42




Right In: 52.450+/-0.014 $\chi^2$/NDF: 417967.5/15

Left Out: 59.070+/-0.023 $\chi^2$/NDF:138010.1/4

Right Out: 50.422+/-0.014 $\chi^2$/NDF: 676753.5/18

Left In: 46.211+/-0.021 $\chi^2$/NDF:118451.1/2

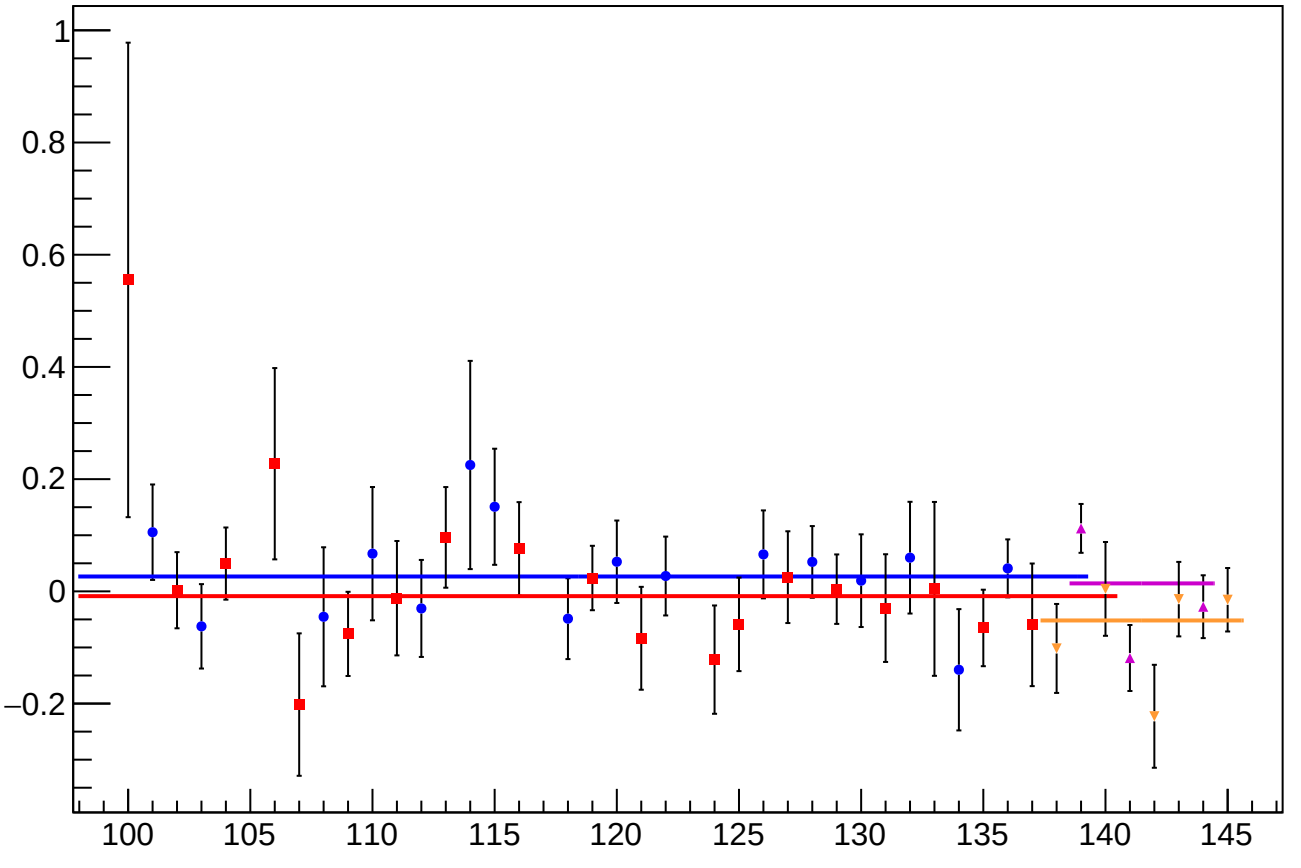
Left: 52.103+/-0.015 $\chi^2$/NDF: 428535.6/7

Right: 51.389+/-0.010 $\chi^2$/NDF: 1105059.9/34

In: 50.448+/-0.012 $\chi^2$/NDF:596450.8/18

Out: 52.731+/-0.012 $\chi^2$/NDF:920052.8/23

All: 51.599+/-0.008 $\chi^2$/NDF: 1535105.8/42




Right In: 0.026+/-0.020 $\chi^2$/NDF: 9.9/15

Left Out: -0.052+/-0.032 $\chi^2$/NDF:5.1/4

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 13.9/18

Left In: 0.014+/-0.030 $\chi^2$/NDF:10.7/2

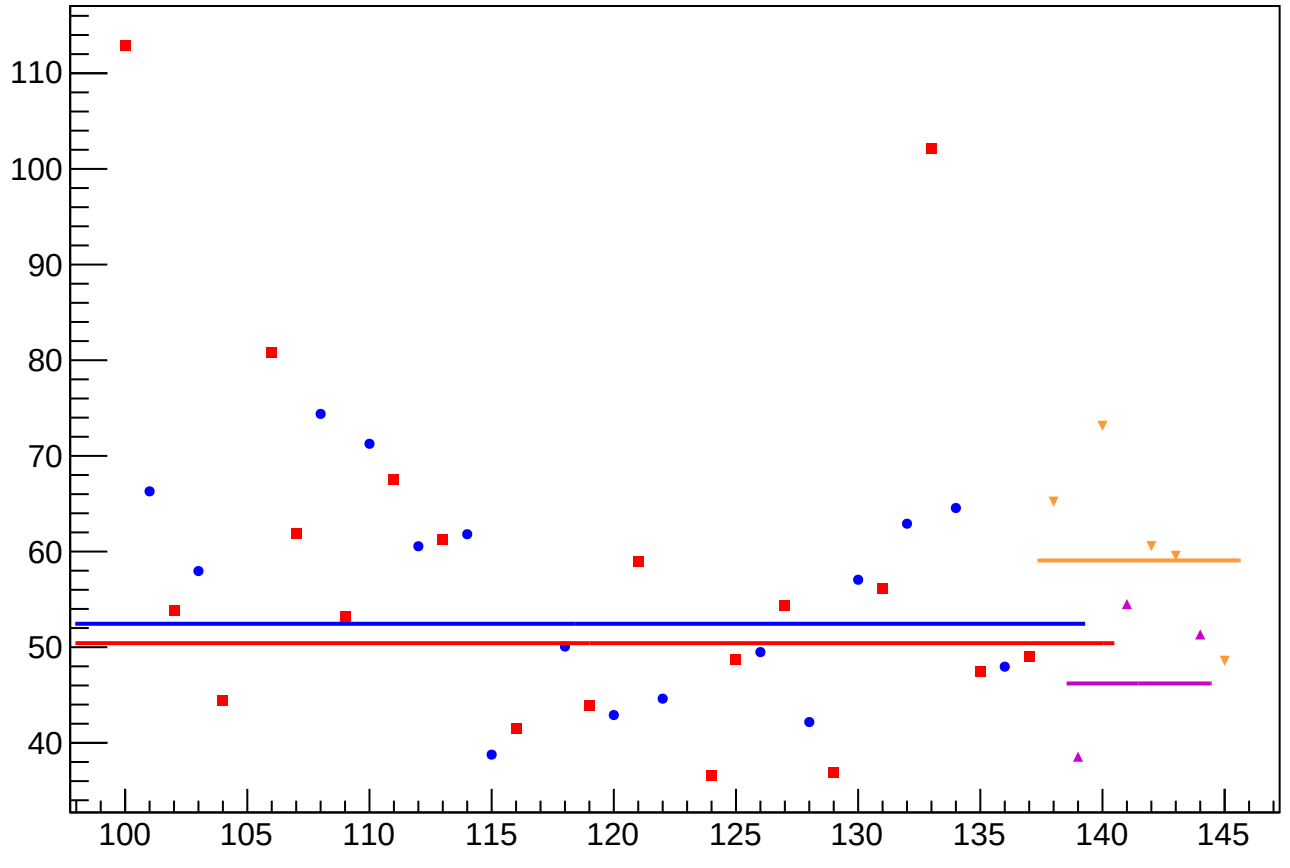
Left: -0.016+/-0.022 $\chi^2$/NDF: 18.1/7

Right: 0.008+/-0.014 $\chi^2$/NDF: 25.4/34

In: 0.023+/-0.017 $\chi^2$/NDF:20.8/18

Out: -0.020+/-0.017 $\chi^2$/NDF:20.3/23

All: 0.001+/-0.012 $\chi^2$/NDF: 44.4/42




Right In: 52.450+/-0.014 $\chi^2$/NDF: 417967.5/15

Left Out: 59.070+/-0.023 $\chi^2$/NDF:138010.1/4

Right Out: 50.422+/-0.014 $\chi^2$/NDF: 676753.5/18

Left In: 46.211+/-0.021 $\chi^2$/NDF:118451.1/2

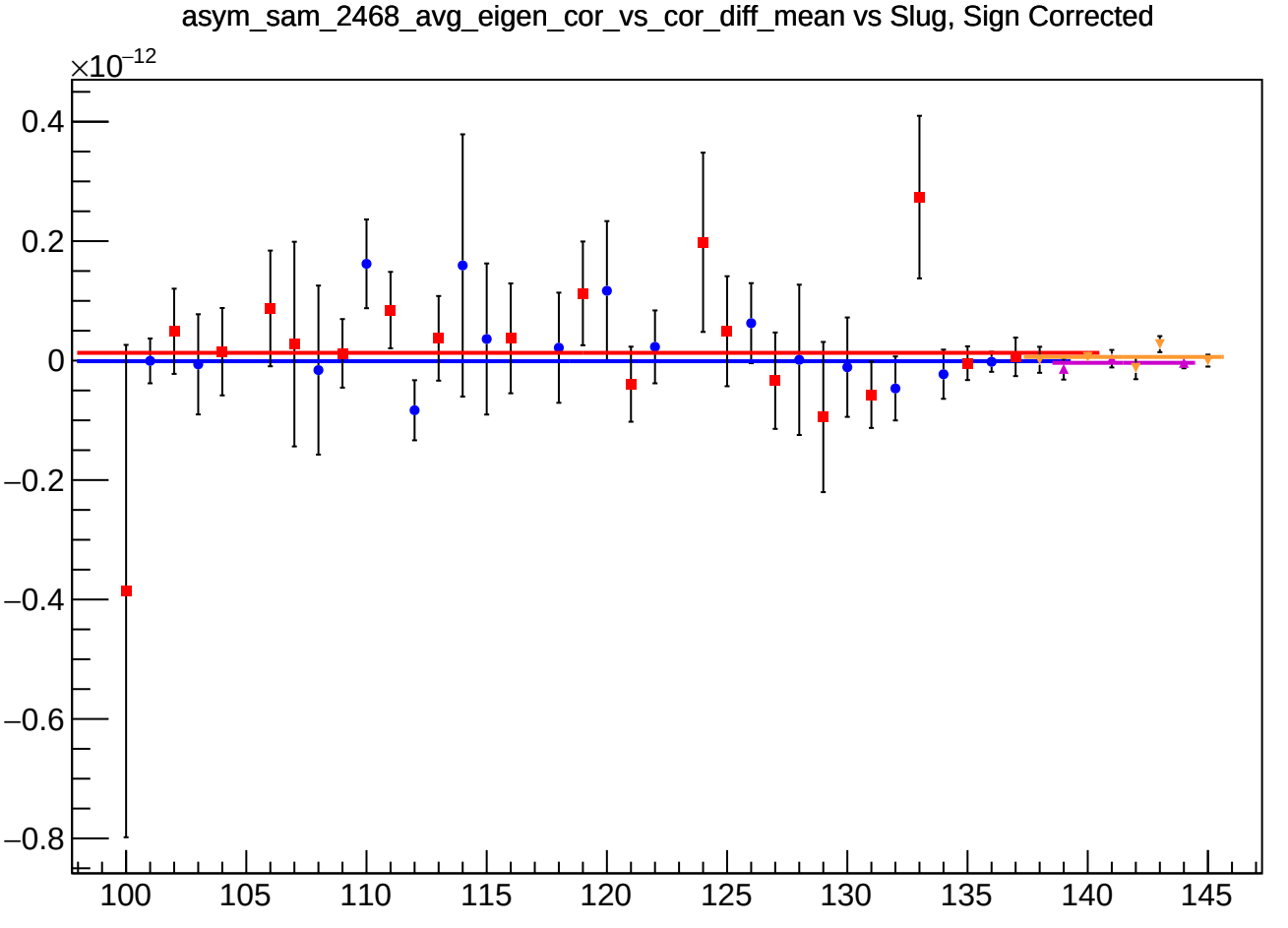
Left: 52.103+/-0.015 $\chi^2$/NDF: 428535.6/7

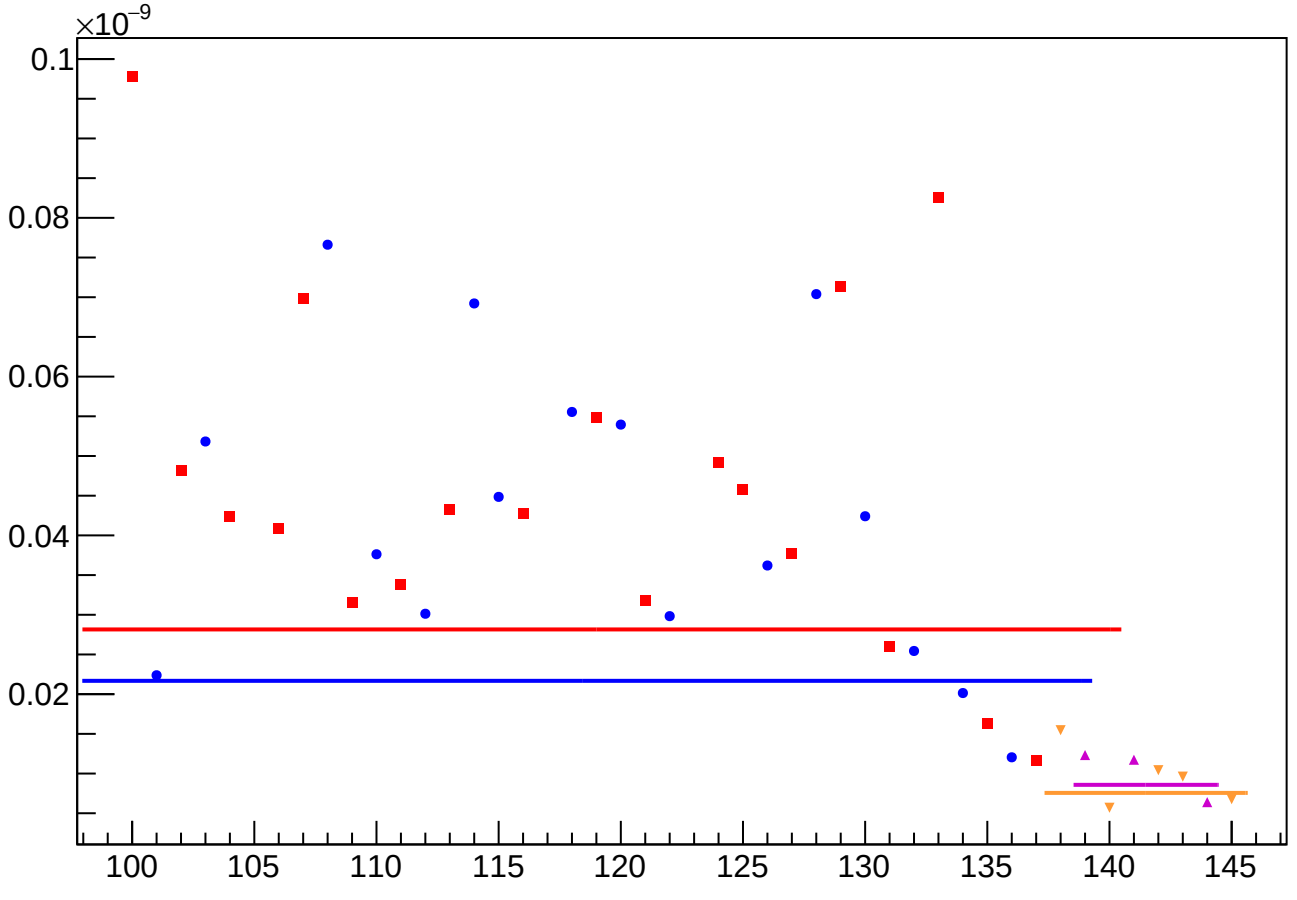
Right: 51.389+/-0.010 $\chi^2$/NDF: 1105059.9/34

In: 50.448+/-0.012 $\chi^2$/NDF:596450.8/18

Out: 52.731+/-0.012 $\chi^2$/NDF:920052.8/23

All: 51.599+/-0.008 $\chi^2$/NDF: 1535105.8/42


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
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 11.3/15
Left Out: 0.000+/-0.000 χ²/NDF:3.9/4
Right Out: 0.000+/-0.000 χ²/NDF: 13.7/18
Left In: -0.000+/-0.000 χ²/NDF:0.5/2
Left: 0.000+/-0.000 χ²/NDF: 5.7/7
Right: 0.000+/-0.000 χ²/NDF: 25.5/34
In: -0.000+/-0.000 χ²/NDF:11.9/18
Out: 0.000+/-0.000 χ²/NDF:17.8/23
All: 0.000+/-0.000 χ²/NDF: 31.2/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2522749.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:471649.7/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2381736.6/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:296231.9/2

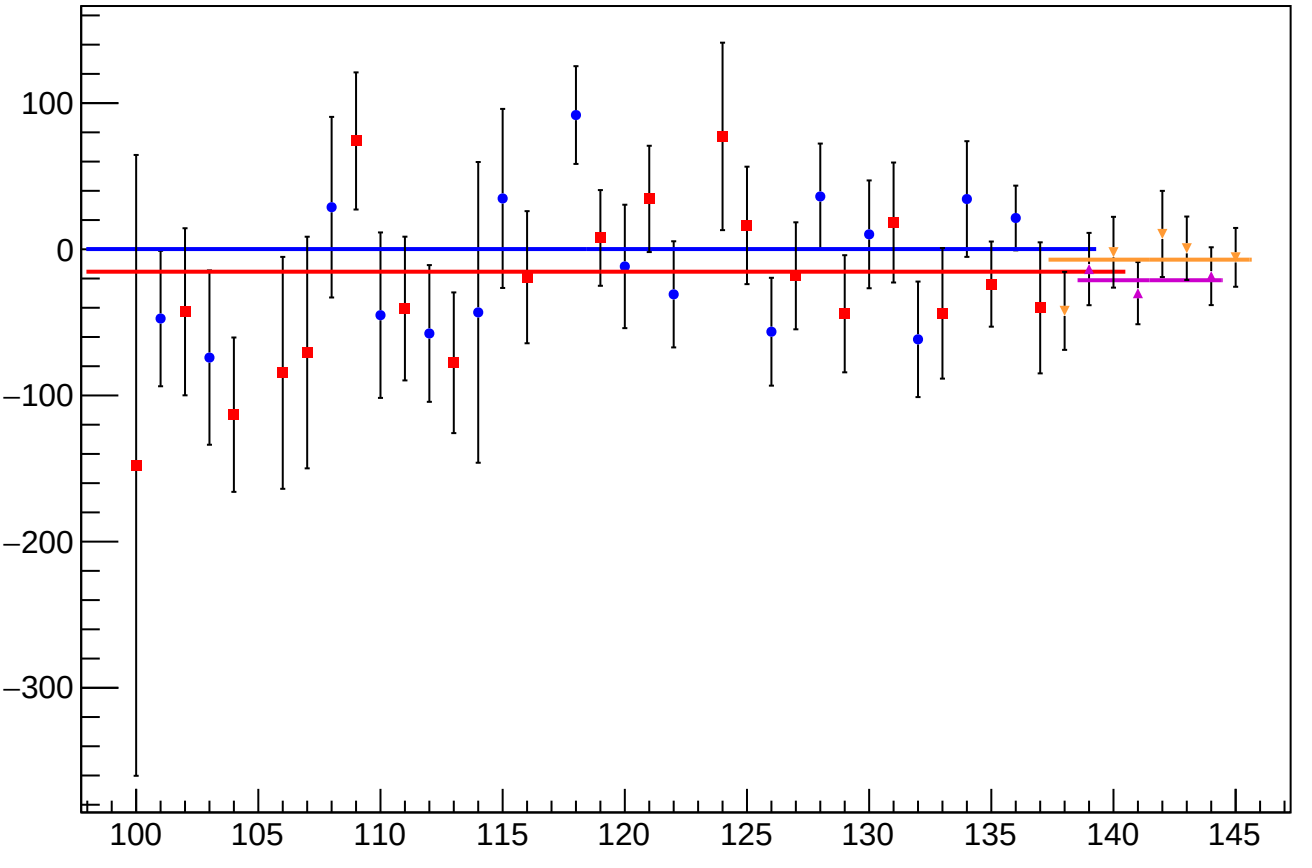
Left: 0.000+/-0.000 $\chi^2$/NDF: 794091.0/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 5141383.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:4590199.6/18

Out: 0.000+/-0.000 $\chi^2$/NDF:6407258.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 11122275.5/42




Right In: 0.155+/-10.048 $\chi^2$/NDF: 21.3/15

Left Out: -7.093+/-10.630 $\chi^2$/NDF:2.3/4

Right Out: -15.333+/-10.267 $\chi^2$/NDF: 17.9/18

Left In: -21.167+/-12.498 $\chi^2$/NDF:0.3/2

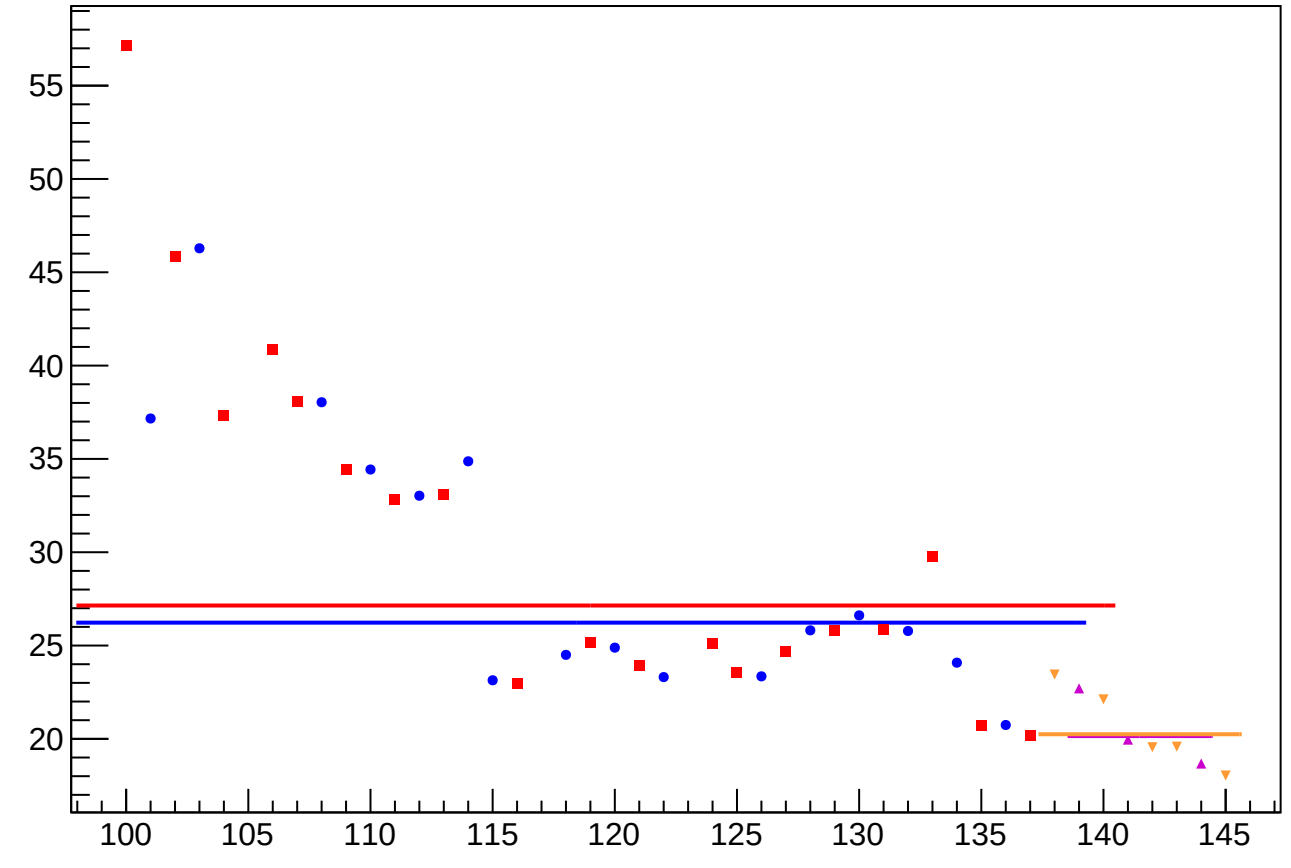
Left: -13.001+/-8.098 $\chi^2$/NDF: 3.3/7

Right: -7.422+/-7.181 $\chi^2$/NDF: 40.4/34

In: -8.215+/-7.831 $\chi^2$/NDF:23.4/18

Out: -11.356+/-7.385 $\chi^2$/NDF:20.5/23

All: -9.878+/-5.373 $\chi^2$/NDF: 44.0/42




Right In: 26.227+/-0.007 $\chi^2$/NDF: 676026.2/15

Left Out: 20.248+/-0.008 $\chi^2$/NDF:67820.1/4

Right Out: 27.145+/-0.007 $\chi^2$/NDF: 755419.8/18

Left In: 20.150+/-0.009 $\chi^2$/NDF:32586.3/2

Left: 20.207+/-0.006 $\chi^2$/NDF: 100477.9/7

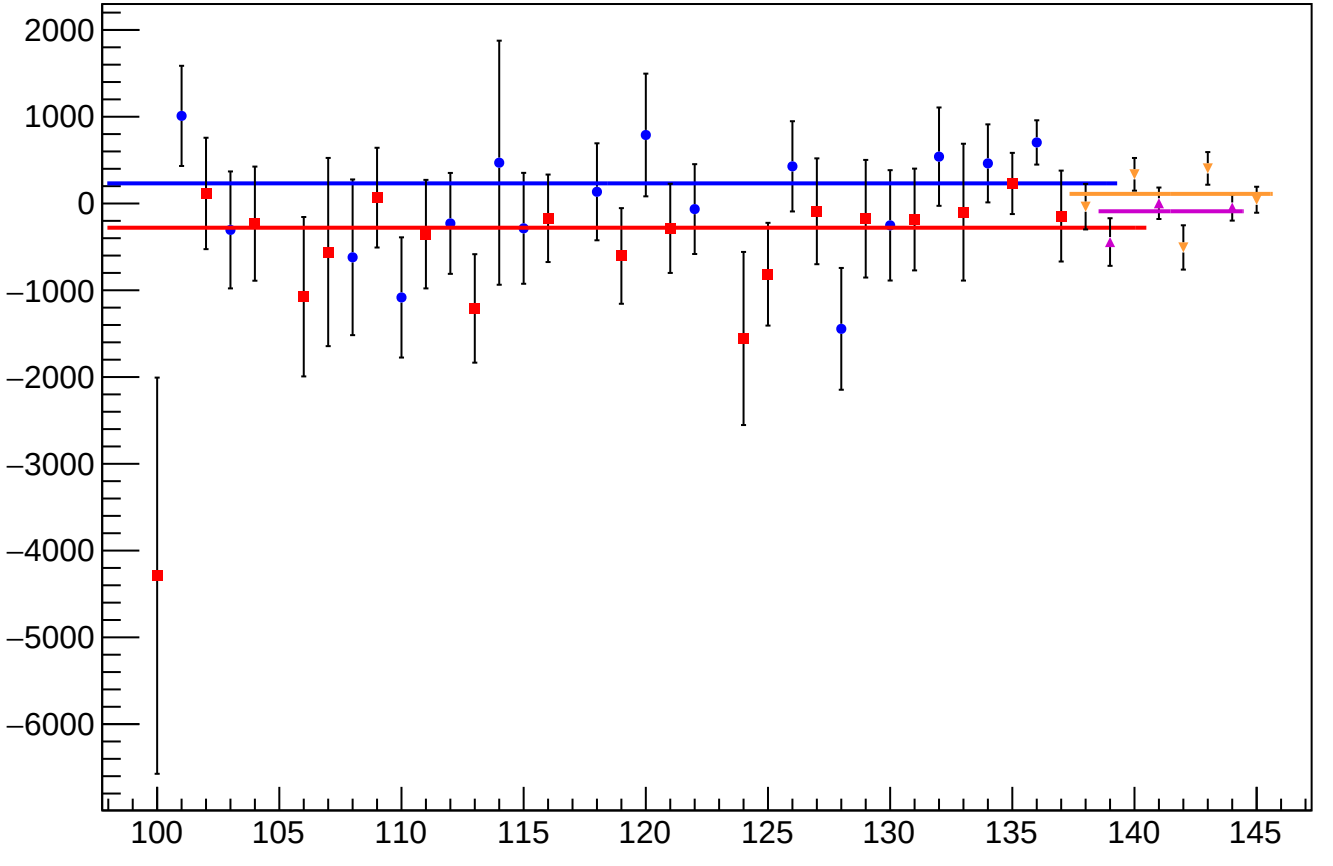
Right: 26.676+/-0.005 $\chi^2$/NDF: 1439621.2/34

In: 23.841+/-0.006 $\chi^2$/NDF:995849.6/18

Out: 23.816+/-0.005 $\chi^2$/NDF:1258893.6/23

All: 23.828+/-0.004 $\chi^2$/NDF: 2254753.8/42

asym_sam_1357_2468_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 232.092+/-134.871 $\chi^2$/NDF: 19.6/15

Left Out: 110.943+/-87.416 $\chi^2$/NDF:10.2/4

Right Out: -279.042+/-139.965 $\chi^2$/NDF: 12.1/18

Left In: -89.592+/-106.846 $\chi^2$/NDF:2.0/2

Left: 30.534+/-67.657 $\chi^2$/NDF: 14.4/7

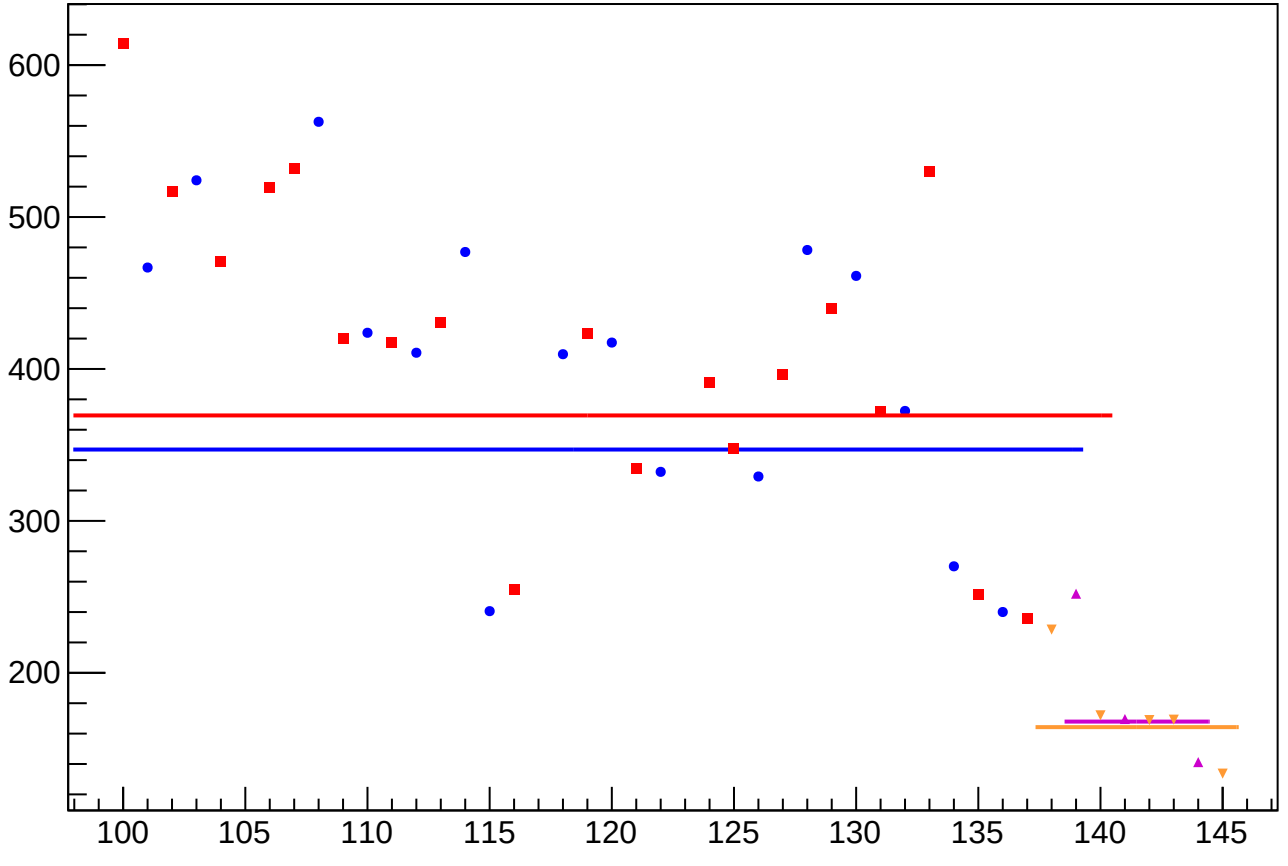
Right: -14.004+/-97.119 $\chi^2$/NDF: 38.6/34

In: 34.448+/-83.750 $\chi^2$/NDF:25.1/18

Out: 1.508+/-74.144 $\chi^2$/NDF:27.9/23

All: 15.981+/-55.515 $\chi^2$/NDF: 53.1/42

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: 164.256+/-0.062 $\chi^2$/NDF:208989.7/4

Right Out: 369.410+/-0.099 $\chi^2$/NDF: 918852.6/18

Left In: 167.909+/-0.076 $\chi^2$/NDF:250804.7/2

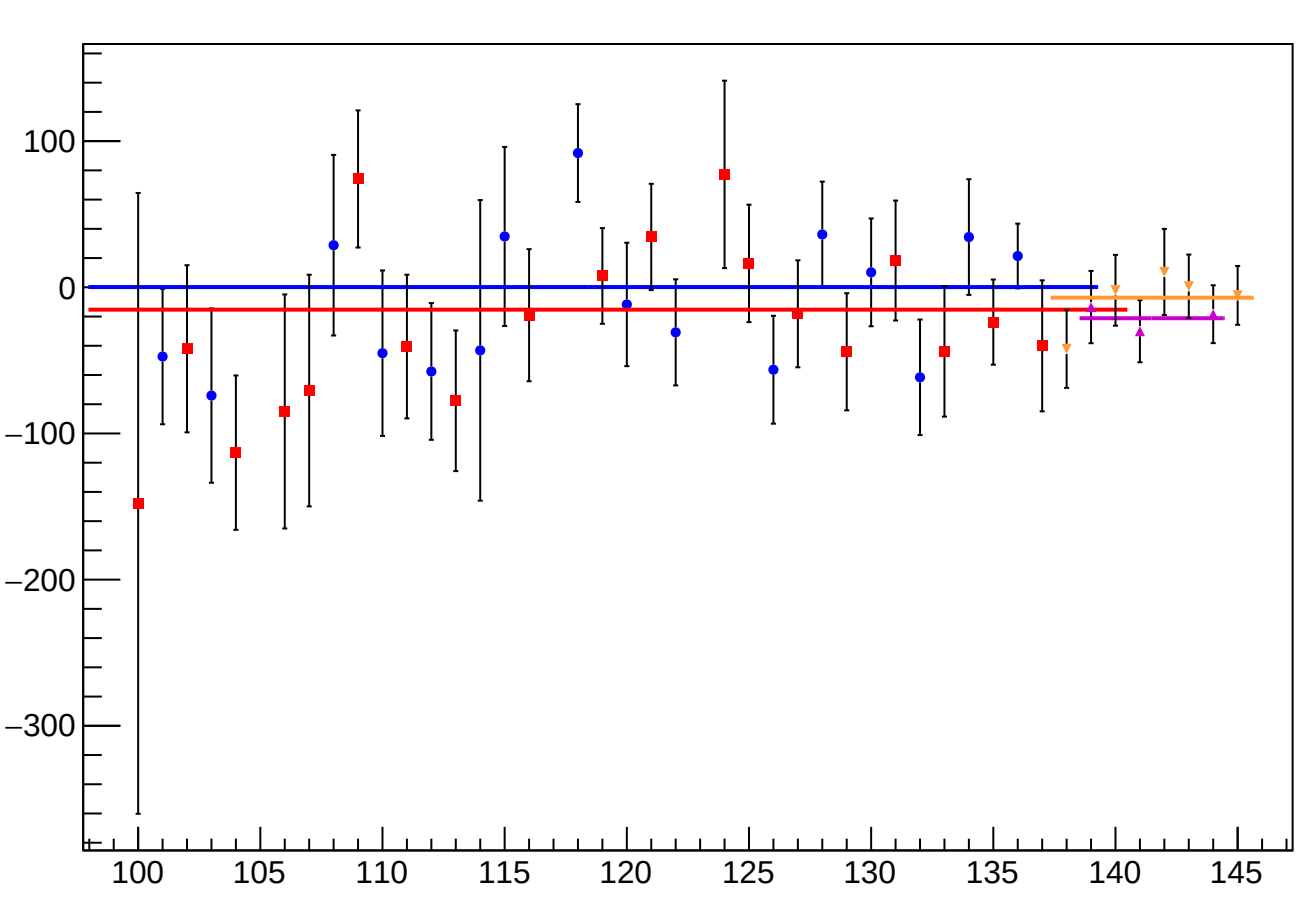
Left: 165.720+/-0.048 $\chi^2$/NDF: 461194.8/7

Right: 357.774+/-0.069 $\chi^2$/NDF: 2003541.6/34

In: 236.954+/-0.059 $\chi^2$/NDF:3474780.5/18

Out: 221.825+/-0.052 $\chi^2$/NDF:4218965.6/23

All: 228.472+/-0.039 $\chi^2$/NDF: 7730334.3/42




Right In: 0.157+/-10.048 $\chi^2$/NDF: 21.3/15

Left Out: -7.096+/-10.630 $\chi^2$/NDF:2.3/4

Right Out: -15.292+/-10.269 $\chi^2$/NDF: 17.9/18

Left In: -21.171+/-12.498 $\chi^2$/NDF:0.3/2

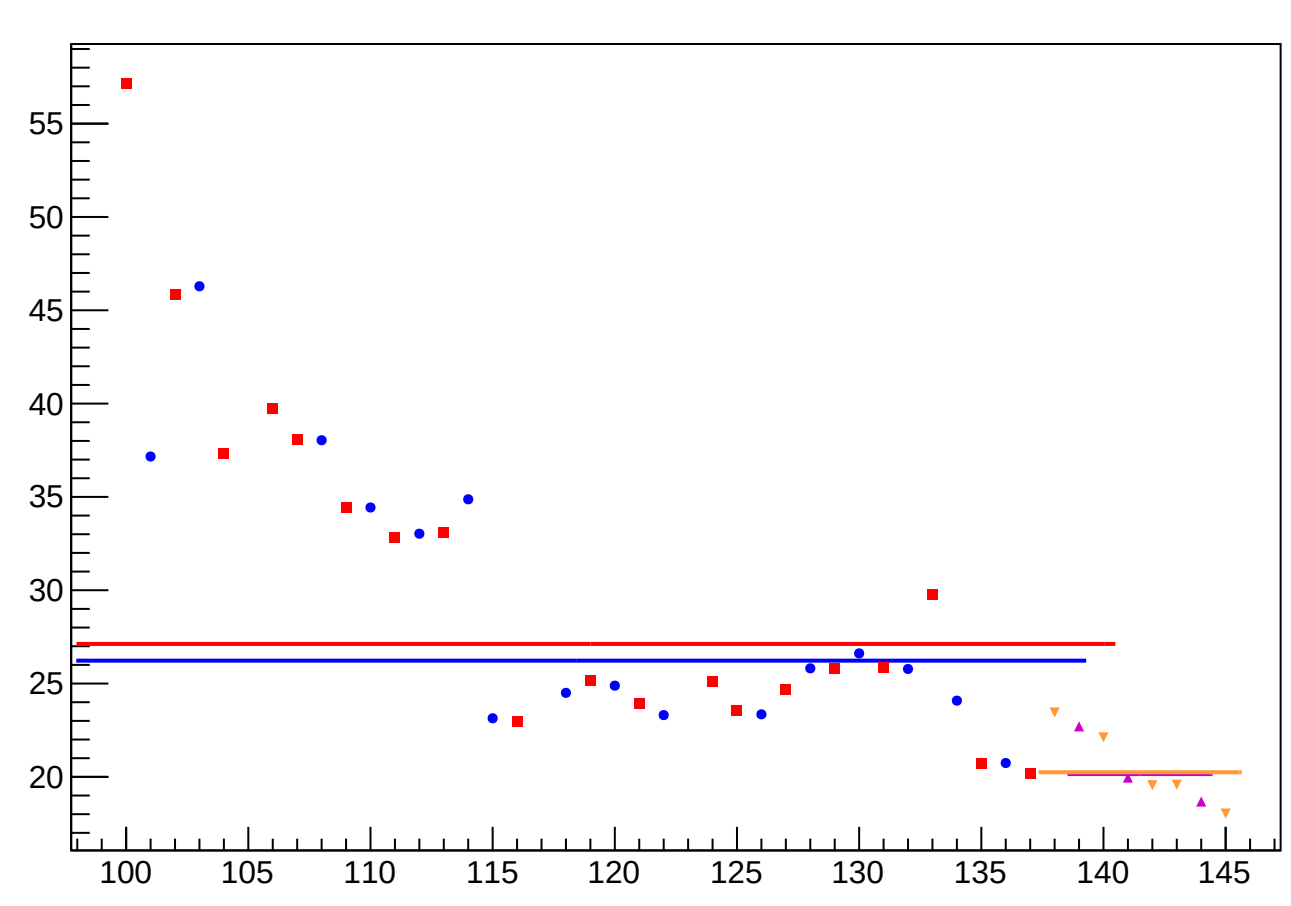
Left: -13.004+/-8.098 $\chi^2$/NDF: 3.3/7

Right: -7.399+/-7.182 $\chi^2$/NDF: 40.4/34

In: -8.216+/-7.831 $\chi^2$/NDF:23.4/18

Out: -11.336+/-7.386 $\chi^2$/NDF:20.5/23

All: -9.867+/-5.373 $\chi^2$/NDF: 44.0/42




Right In: 26.227+/-0.007 $\chi^2$/NDF: 676029.5/15

Left Out: 20.248+/-0.008 $\chi^2$/NDF:67820.1/4

Right Out: 27.123+/-0.007 $\chi^2$/NDF: 745675.5/18

Left In: 20.150+/-0.009 $\chi^2$/NDF:32586.3/2

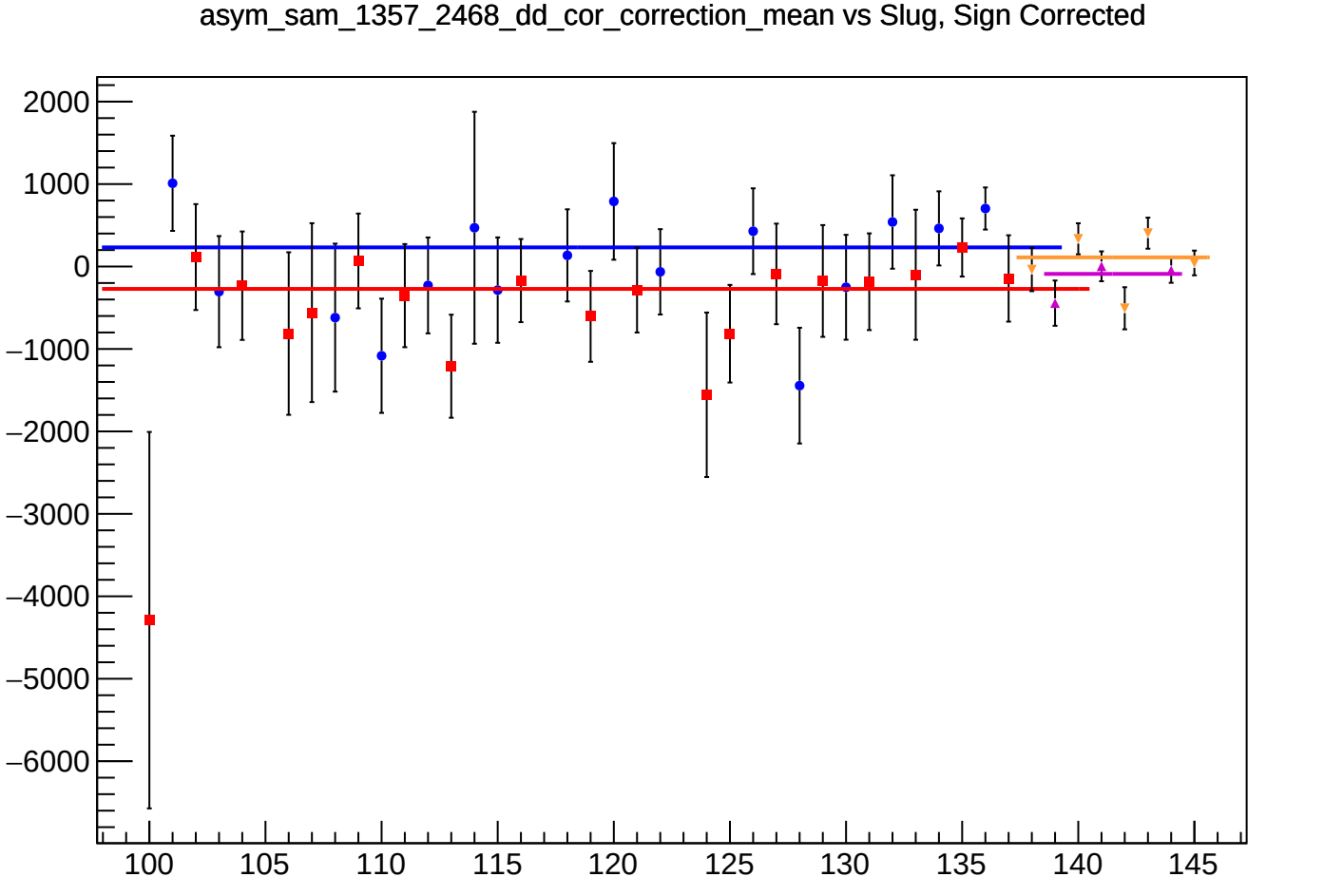
Left: 20.207+/-0.006 $\chi^2$/NDF: 100477.9/7

Right: 26.665+/-0.005 $\chi^2$/NDF: 1429493.5/34

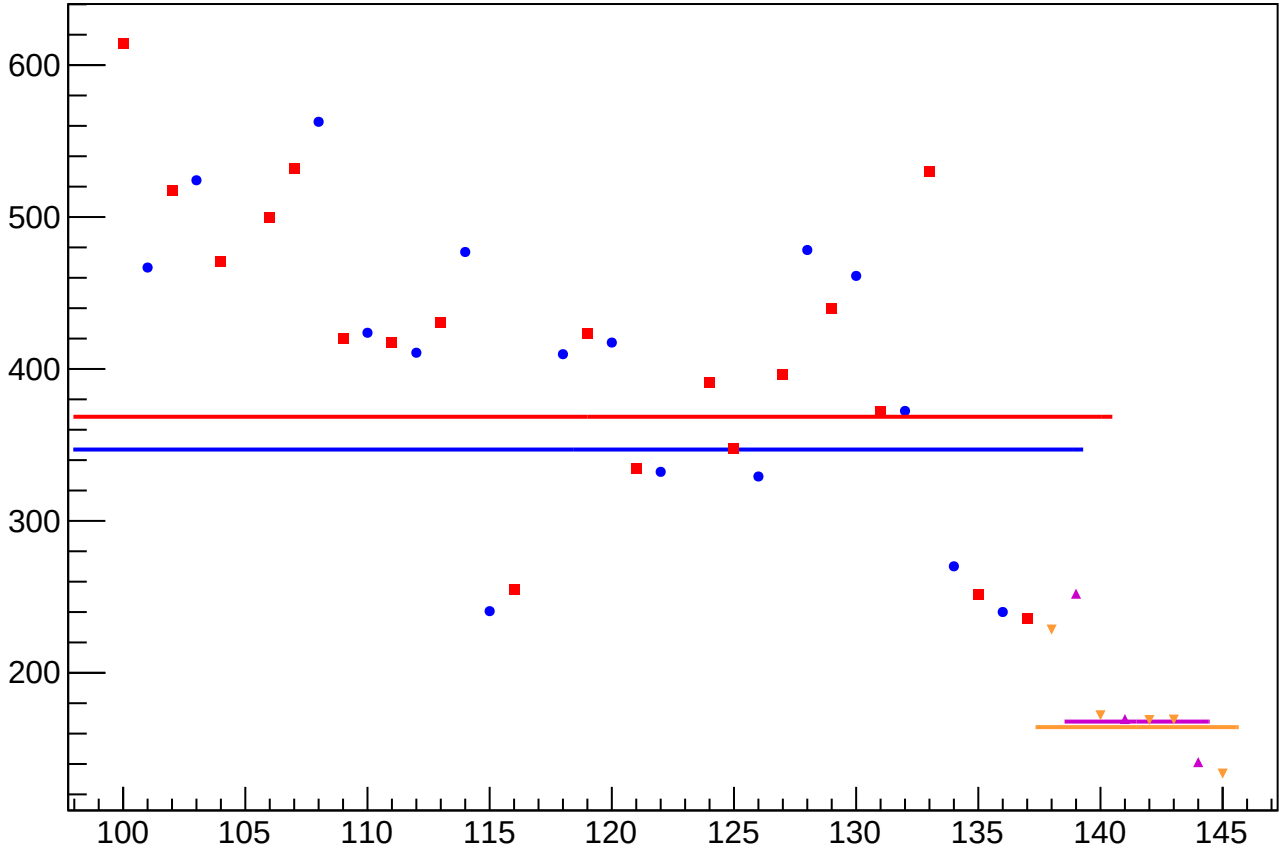
In: 23.841+/-0.006 $\chi^2$/NDF:995853.0/18

Out: 23.805+/-0.005 $\chi^2$/NDF:1246316.3/23

All: 23.822+/-0.004 $\chi^2$/NDF: 2242192.4/42


asym_sam_1357_2468_dd_cor_correction_mean vs Slug, Sign Corrected
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
100
105
110
115
120
125
130
135
140
145
Right In: 232.084+/-134.871 χ²/NDF: 19.6/15
Left Out: 110.939+/-87.416 χ²/NDF:10.2/4
Right Out: -271.412+/-140.183 χ²/NDF: 11.6/18
Left In: -89.596+/-106.846 χ²/NDF:2.0/2
Left: 30.530+/-67.657 χ²/NDF: 14.4/7
Right: -9.945+/-97.192 χ²/NDF: 38.0/34
In: 34.442+/-83.750 χ²/NDF:25.2/18
Out: 3.886+/-74.176 χ²/NDF:27.2/23
All: 17.319+/-55.528 χ²/NDF: 52.4/42

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: 164.255+/-0.062 $\chi^2$/NDF:208989.8/4

Right Out: 368.543+/-0.099 $\chi^2$/NDF: 900219.6/18

Left In: 167.909+/-0.076 $\chi^2$/NDF:250803.7/2

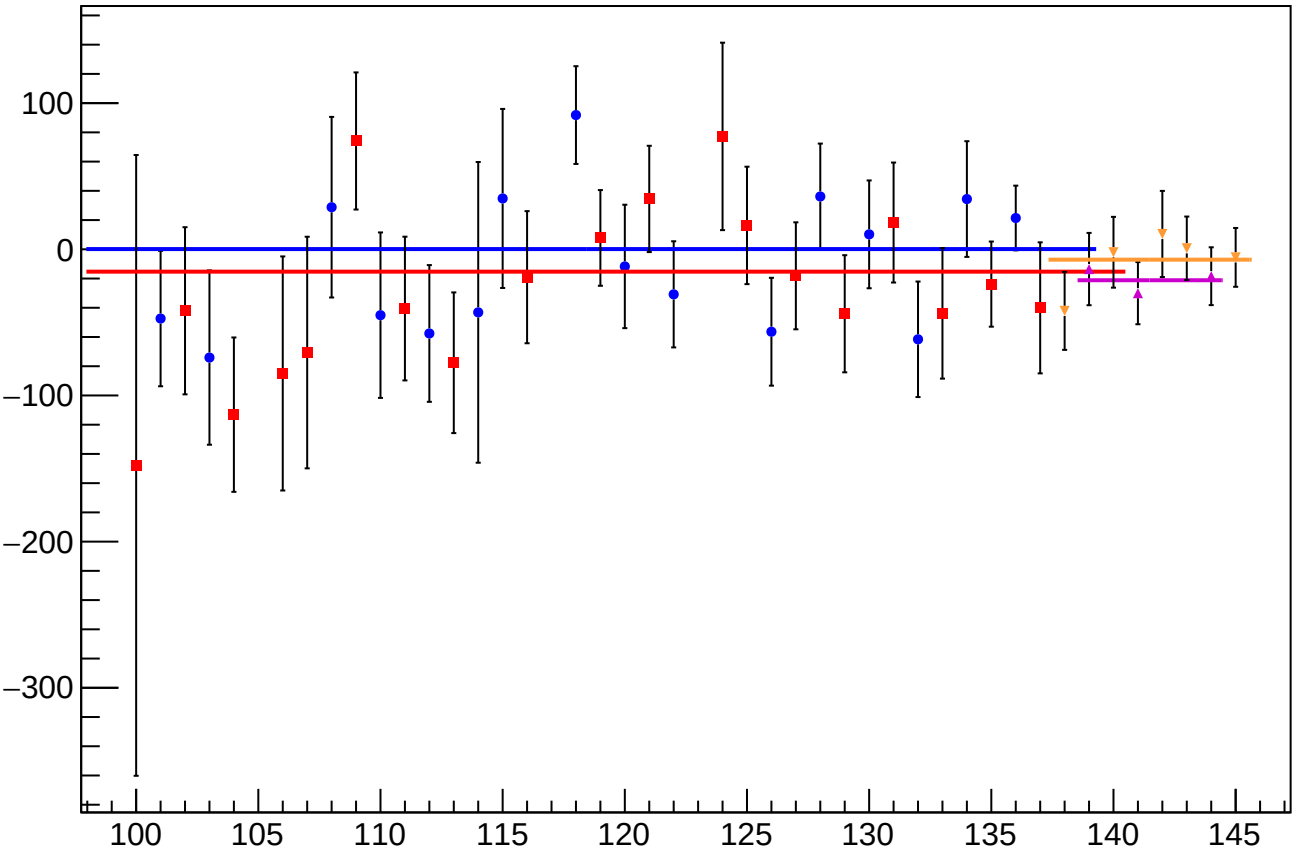
Left: 165.720+/-0.048 $\chi^2$/NDF: 461194.2/7

Right: 357.340+/-0.069 $\chi^2$/NDF: 1982876.2/34

In: 236.954+/-0.059 $\chi^2$/NDF:3474803.3/18

Out: 221.453+/-0.052 $\chi^2$/NDF:4167423.0/23

All: 228.267+/-0.039 $\chi^2$/NDF: 7680618.9/42




Right In: 0.157+/-10.048 $\chi^2$/NDF: 21.3/15

Left Out: -7.096+/-10.630 $\chi^2$/NDF:2.3/4

Right Out: -15.292+/-10.269 $\chi^2$/NDF: 17.9/18

Left In: -21.171+/-12.498 $\chi^2$/NDF:0.3/2

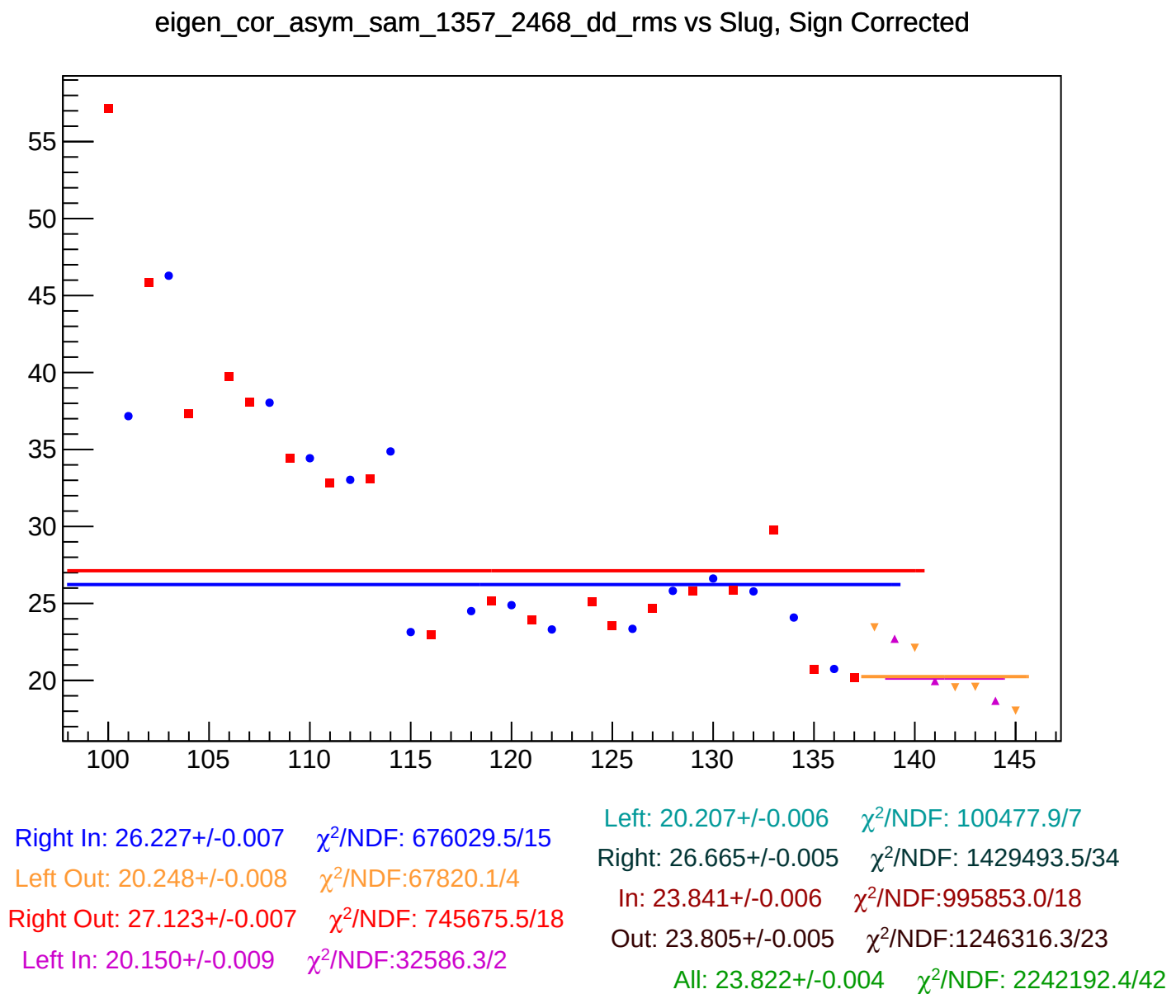
Left: -13.004+/-8.098 $\chi^2$/NDF: 3.3/7

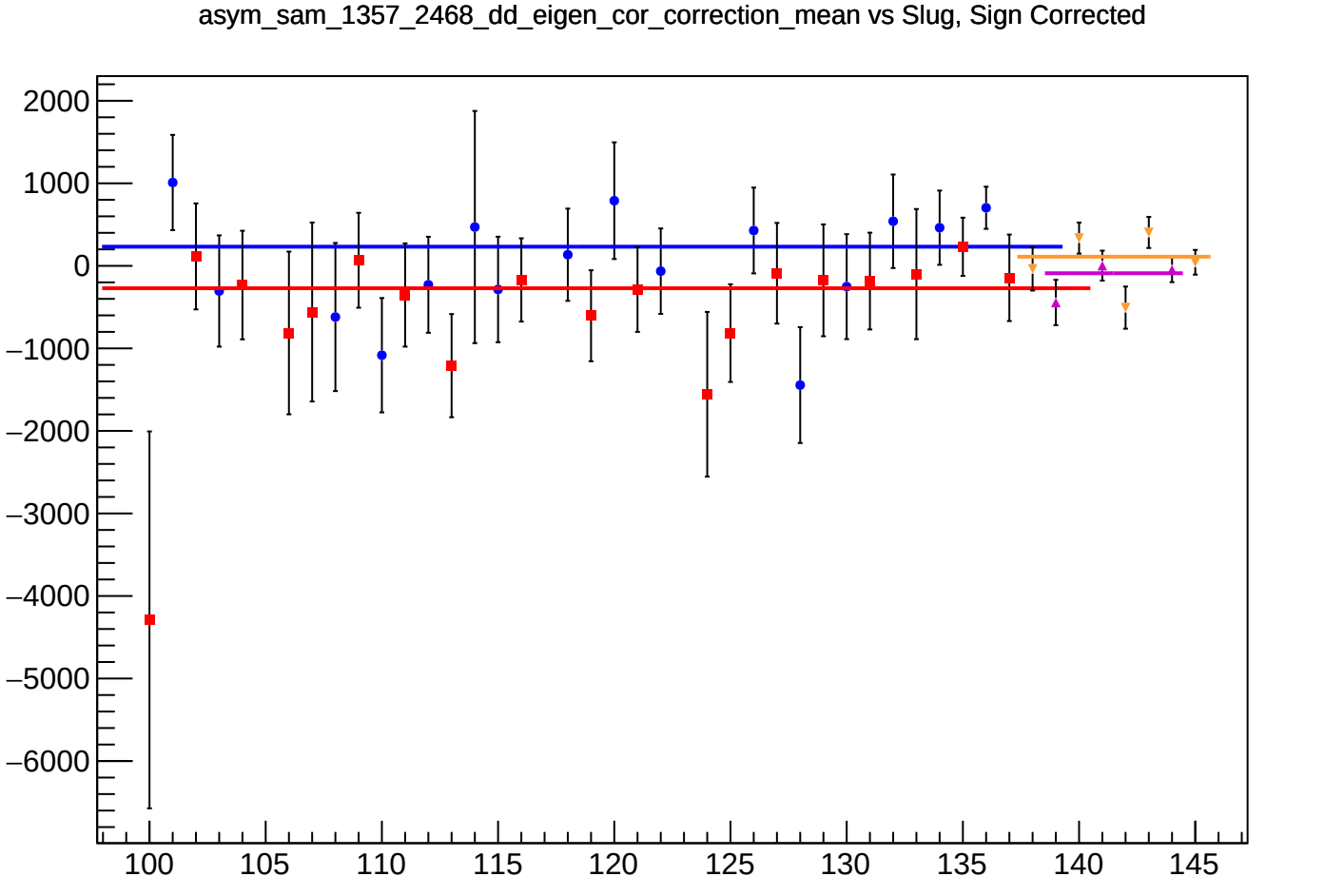
Right: -7.399+/-7.182 $\chi^2$/NDF: 40.4/34

In: -8.216+/-7.831 $\chi^2$/NDF:23.4/18

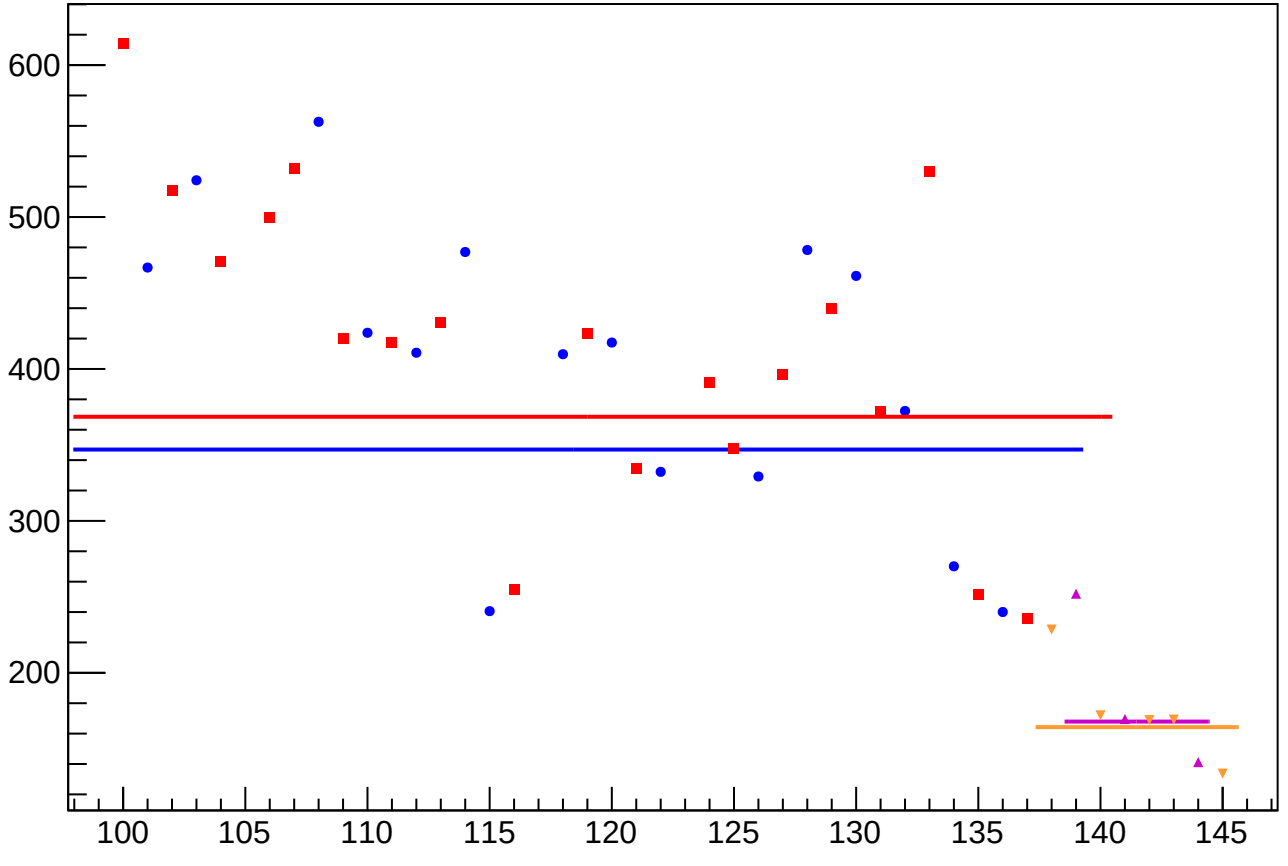
Out: -11.336+/-7.386 $\chi^2$/NDF:20.5/23

All: -9.867+/-5.373 $\chi^2$/NDF: 44.0/42


eigen_cor_asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected
55
50
45
40
35
30
25
20
100
105
110
115
120
125
130
135
140
145
Right In: 26.227+/-0.007 χ²/NDF: 676029.5/15
Left Out: 20.248+/-0.008 χ²/NDF:67820.1/4
Right Out: 27.123+/-0.007 χ²/NDF: 745675.5/18
Left In: 20.150+/-0.009 χ²/NDF:32586.3/2
Left: 20.207+/-0.006 χ²/NDF: 100477.9/7
Right: 26.665+/-0.005 χ²/NDF: 1429493.5/34
In: 23.841+/-0.006 χ²/NDF:995853.0/18
Out: 23.805+/-0.005 χ²/NDF:1246316.3/23
All: 23.822+/-0.004 χ²/NDF: 2242192.4/42


asym_sam_1357_2468_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
100
105
110
115
120
125
130
135
140
145
Right In: 232.084+/-134.871 χ²/NDF: 19.6/15
Left Out: 110.939+/-87.416 χ²/NDF:10.2/4
Right Out: -271.412+/-140.183 χ²/NDF: 11.6/18
Left In: -89.596+/-106.846 χ²/NDF:2.0/2
Left: 30.530+/-67.657 χ²/NDF: 14.4/7
Right: -9.945+/-97.192 χ²/NDF: 38.0/34
In: 34.442+/-83.750 χ²/NDF:25.2/18
Out: 3.886+/-74.176 χ²/NDF:27.2/23
All: 17.319+/-55.528 χ²/NDF: 52.4/42

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: 164.255+/-0.062 $\chi^2$/NDF:208989.8/4

Right Out: 368.543+/-0.099 $\chi^2$/NDF: 900219.6/18

Left In: 167.909+/-0.076 $\chi^2$/NDF:250803.7/2

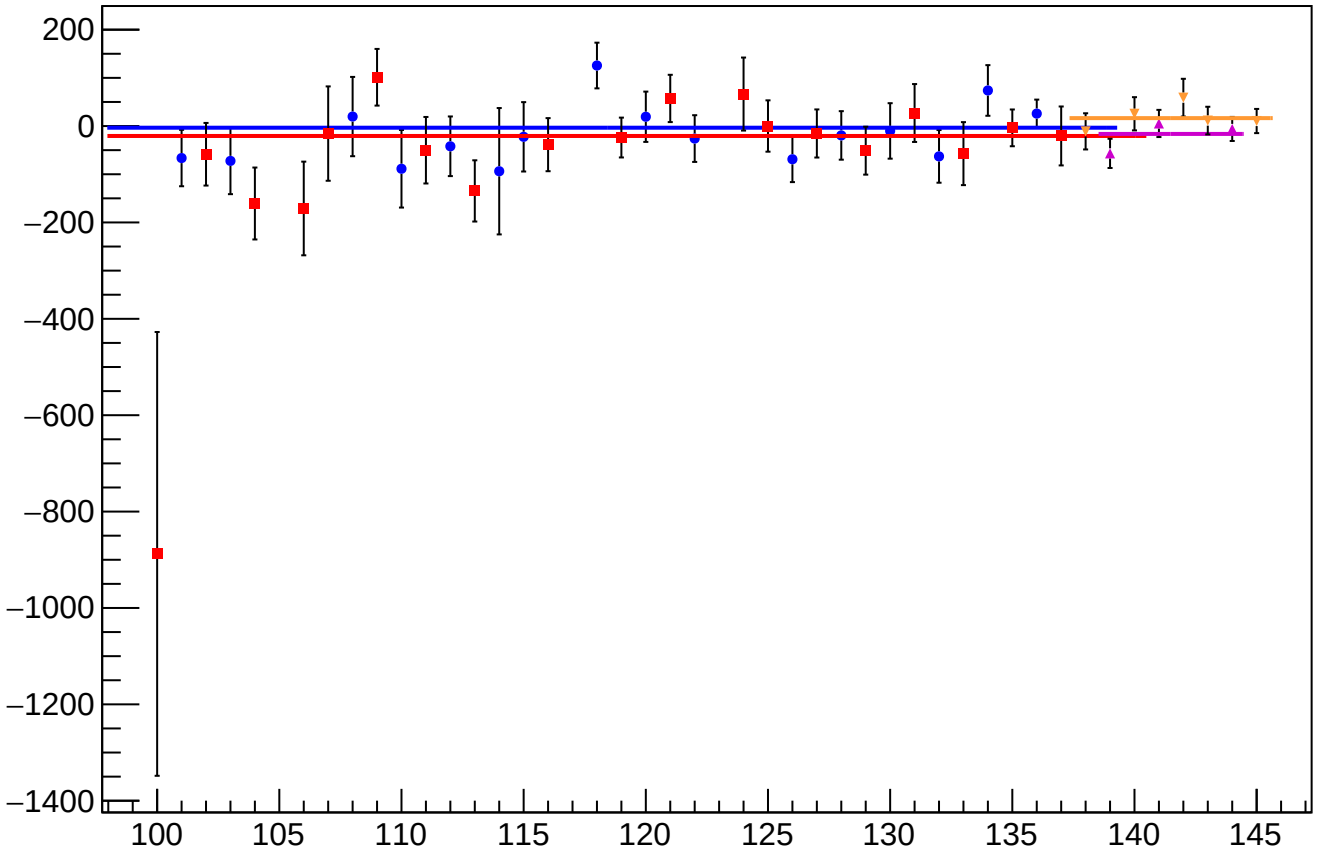
Left: 165.720+/-0.048 $\chi^2$/NDF: 461194.2/7

Right: 357.340+/-0.069 $\chi^2$/NDF: 1982876.2/34

In: 236.954+/-0.059 $\chi^2$/NDF:3474803.3/18

Out: 221.453+/-0.052 $\chi^2$/NDF:4167423.0/23

All: 228.267+/-0.039 $\chi^2$/NDF: 7680618.9/42




Right In: -3.423+/-13.393 $\chi^2$/NDF: 18.5/15

Left Out: 16.458+/-14.134 $\chi^2$/NDF:1.9/4

Right Out: -20.569+/-13.475 $\chi^2$/NDF: 23.1/18

Left In: -16.334+/-15.905 $\chi^2$/NDF:2.5/2

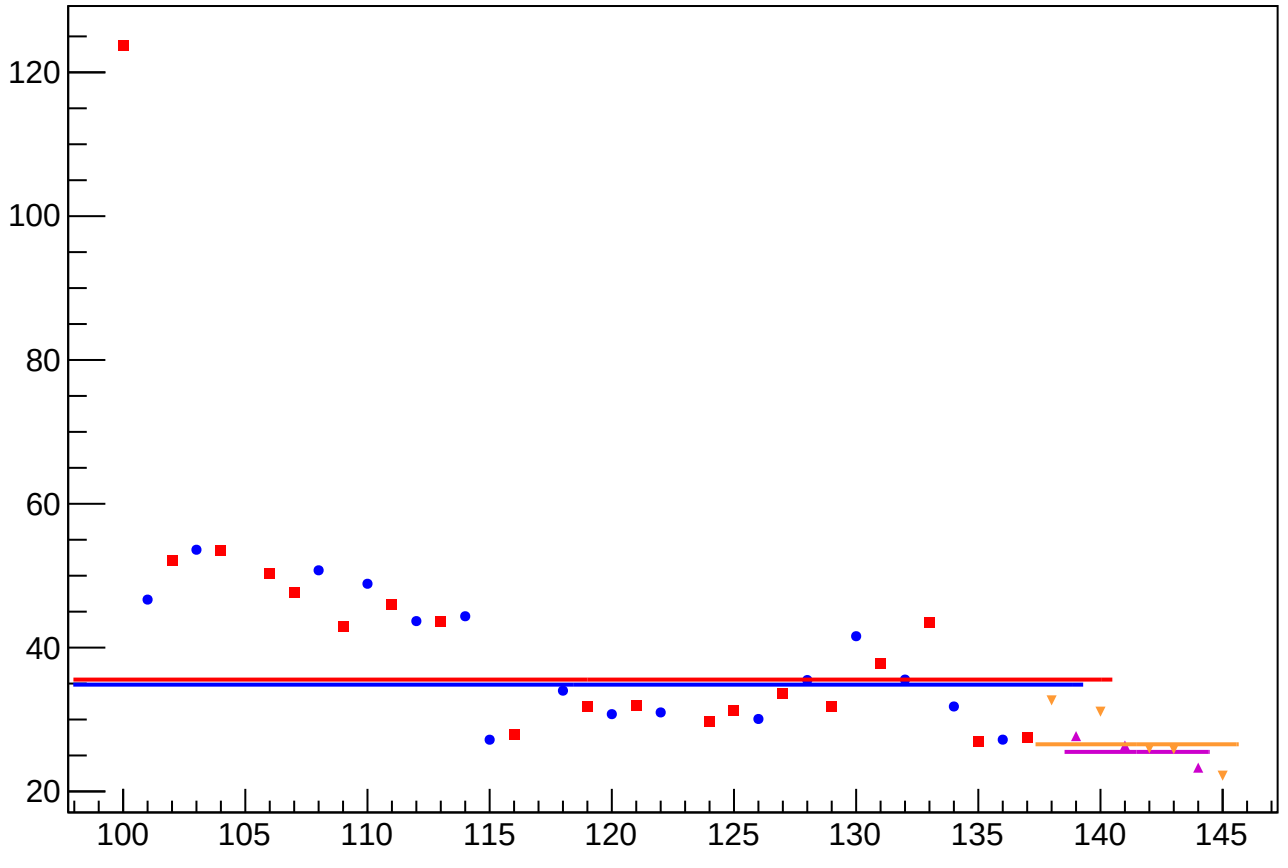
Left: 1.989+/-10.565 $\chi^2$/NDF: 6.8/7

Right: -11.944+/-9.499 $\chi^2$/NDF: 42.4/34

In: -8.780+/-10.244 $\chi^2$/NDF:21.4/18

Out: -2.939+/-9.753 $\chi^2$/NDF:28.6/23

All: -5.716+/-7.064 $\chi^2$/NDF: 50.2/42




Right In: 34.850+/-0.009 $\chi^2$/NDF: 658141.6/15

Left Out: 26.555+/-0.010 $\chi^2$/NDF:149605.0/4

Right Out: 35.553+/-0.010 $\chi^2$/NDF: 779880.3/18

Left In: 25.497+/-0.011 $\chi^2$/NDF:27869.8/2

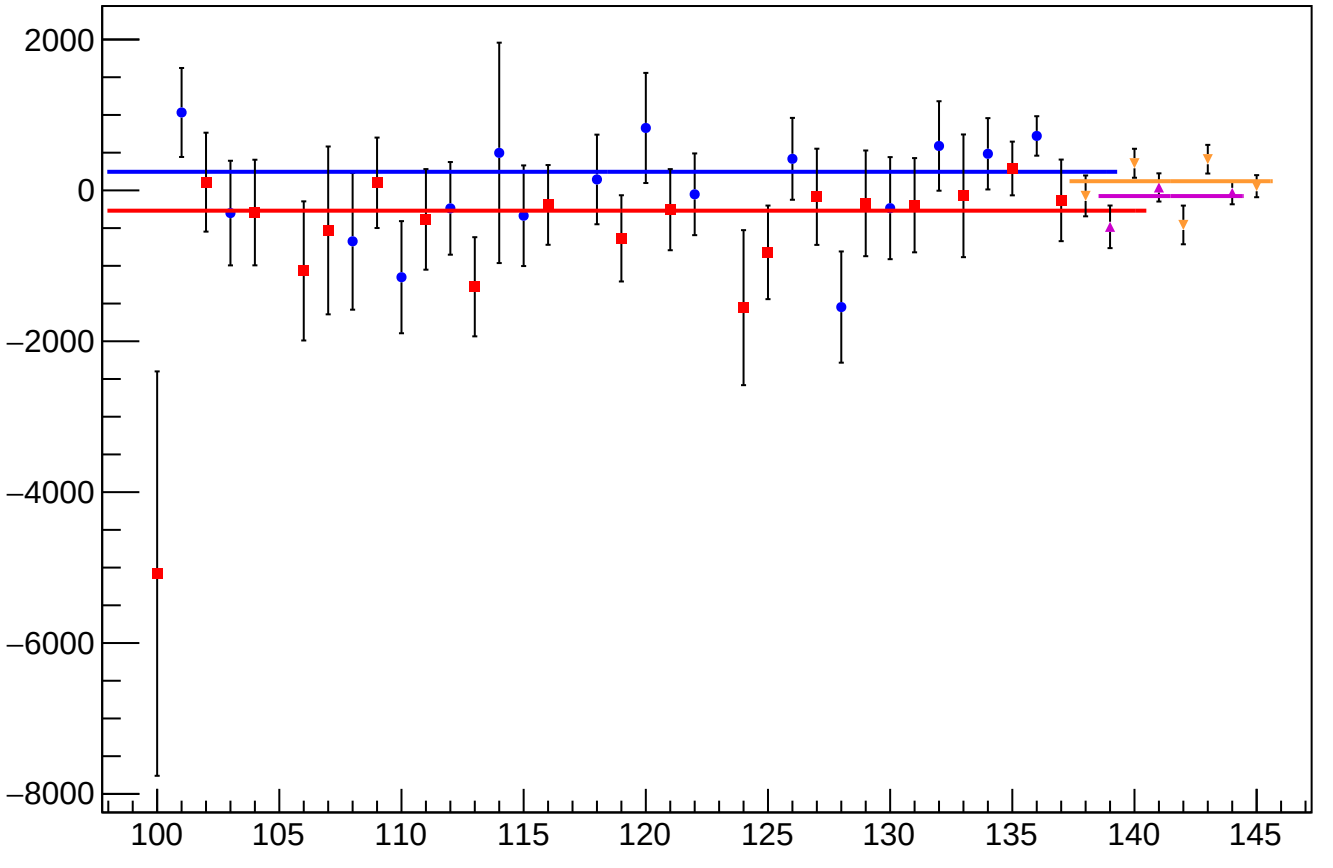
Left: 26.088+/-0.007 $\chi^2$/NDF: 182419.2/7

Right: 35.200+/-0.007 $\chi^2$/NDF: 1440755.9/34

In: 30.970+/-0.007 $\chi^2$/NDF:1090750.2/18

Out: 31.268+/-0.007 $\chi^2$/NDF:1354133.4/23

All: 31.127+/-0.005 $\chi^2$/NDF: 2445774.7/42




Right In: 246.507+/-140.275 $\chi^2$/NDF: 19.8/15

Left Out: 121.697+/-87.577 $\chi^2$/NDF:9.7/4

Right Out: -268.913+/-145.295 $\chi^2$/NDF: 12.6/18

Left In: -75.163+/-108.457 $\chi^2$/NDF:2.5/2

Left: 43.999+/-68.137 $\chi^2$/NDF: 14.3/7

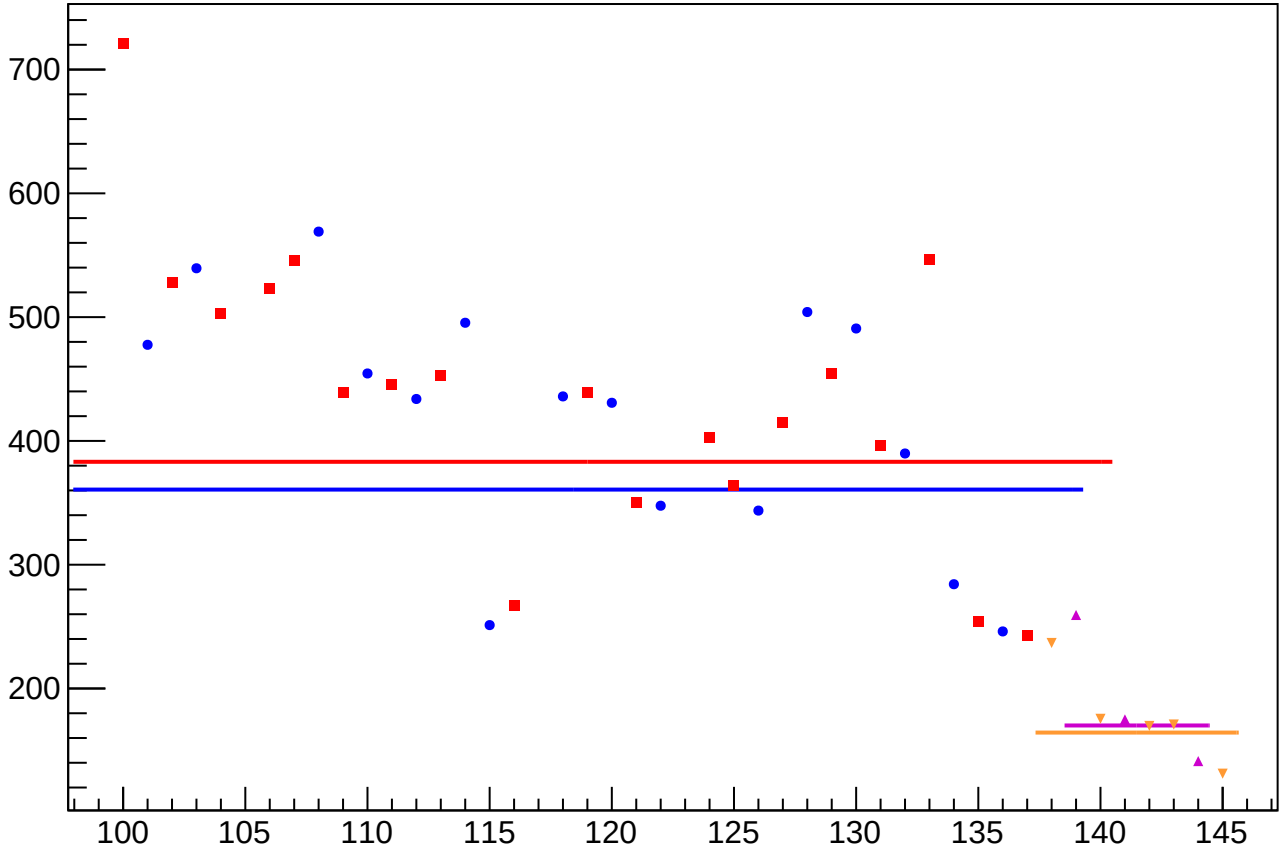
Right: -2.144+/-100.917 $\chi^2$/NDF: 38.9/34

In: 45.186+/-85.802 $\chi^2$/NDF:25.6/18

Out: 17.602+/-75.006 $\chi^2$/NDF:27.7/23

All: 29.551+/-56.471 $\chi^2$/NDF: 53.3/42

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: 164.397+/-0.062 $\chi^2$/NDF:255715.0/4

Right Out: 383.132+/-0.103 $\chi^2$/NDF: 963125.0/18

Left In: 170.129+/-0.077 $\chi^2$/NDF:273985.3/2

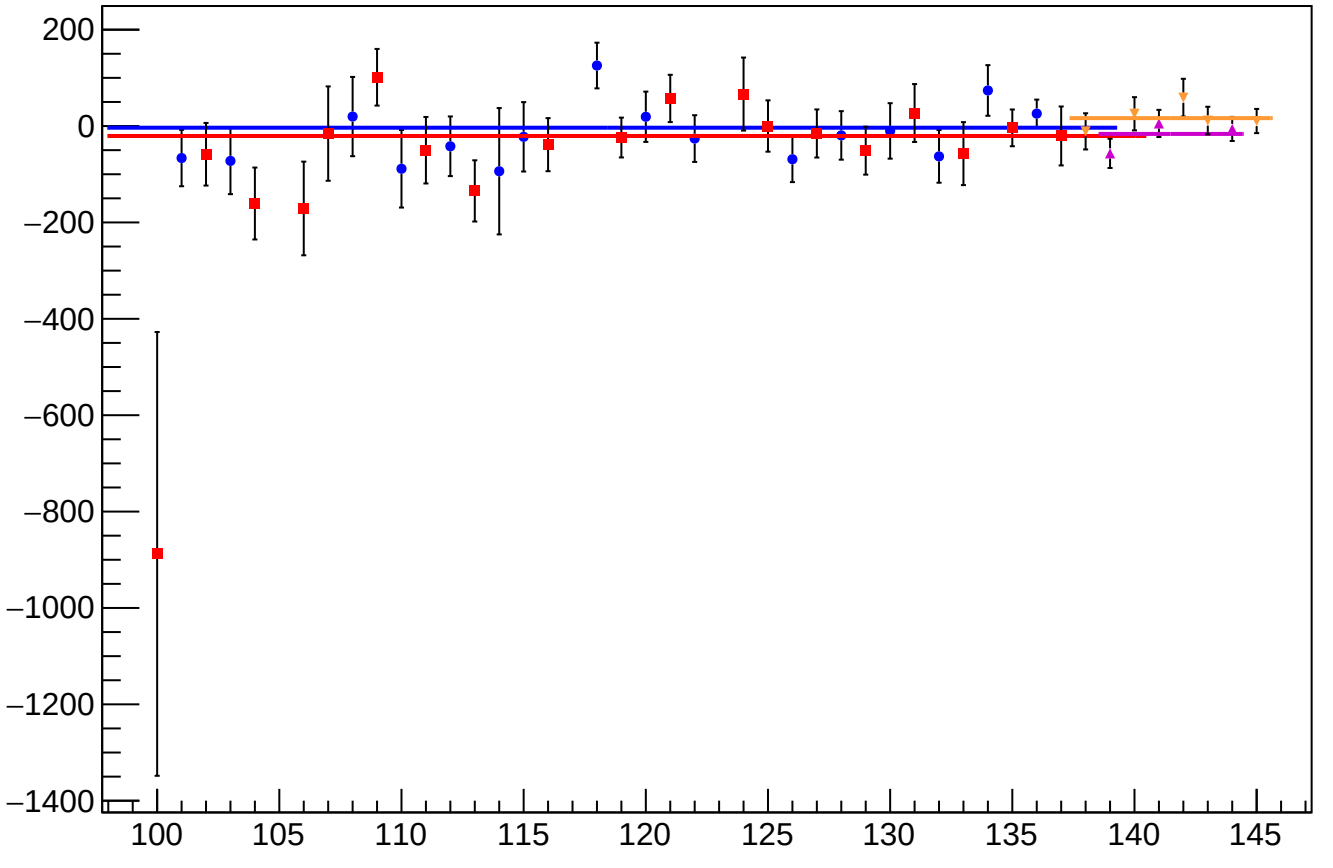
Left: 166.660+/-0.048 $\chi^2$/NDF: 533081.7/7

Right: 371.518+/-0.071 $\chi^2$/NDF: 2080575.8/34

In: 241.427+/-0.061 $\chi^2$/NDF:3676815.1/18

Out: 222.689+/-0.053 $\chi^2$/NDF:4543632.3/23

All: 230.805+/-0.040 $\chi^2$/NDF: 8274515.9/42




Right In: -3.425+/-13.392 $\chi^2$/NDF: 18.5/15

Left Out: 16.459+/-14.134 $\chi^2$/NDF:1.9/4

Right Out: -20.569+/-13.475 $\chi^2$/NDF: 23.1/18

Left In: -16.334+/-15.905 $\chi^2$/NDF:2.5/2

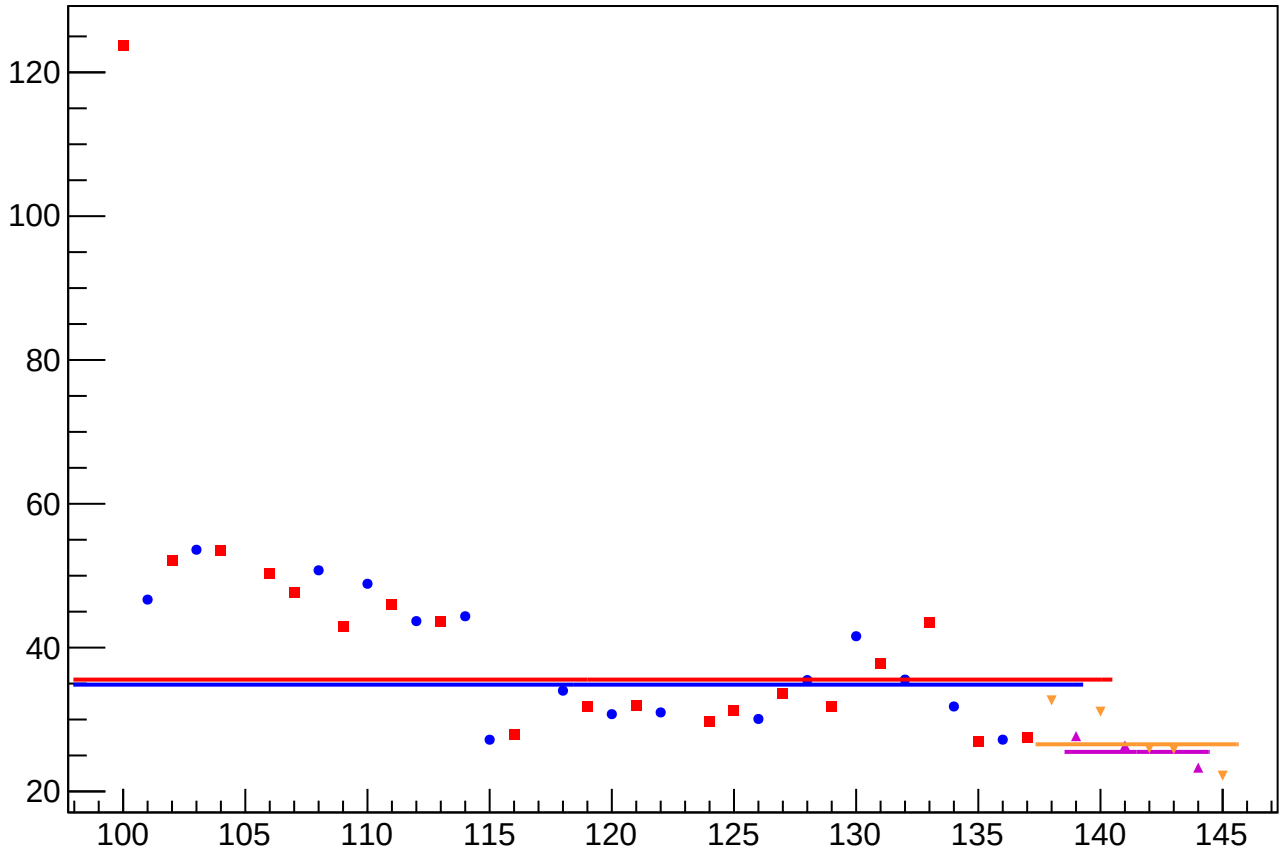
Left: 1.989+/-10.565 $\chi^2$/NDF: 6.8/7

Right: -11.944+/-9.499 $\chi^2$/NDF: 42.4/34

In: -8.780+/-10.244 $\chi^2$/NDF:21.4/18

Out: -2.938+/-9.753 $\chi^2$/NDF:28.6/23

All: -5.716+/-7.064 $\chi^2$/NDF: 50.2/42




Right In: 34.850+/-0.009 $\chi^2$/NDF: 658089.6/15

Left Out: 26.555+/-0.010 $\chi^2$/NDF:149588.2/4

Right Out: 35.552+/-0.010 $\chi^2$/NDF: 779849.4/18

Left In: 25.497+/-0.011 $\chi^2$/NDF:27862.9/2

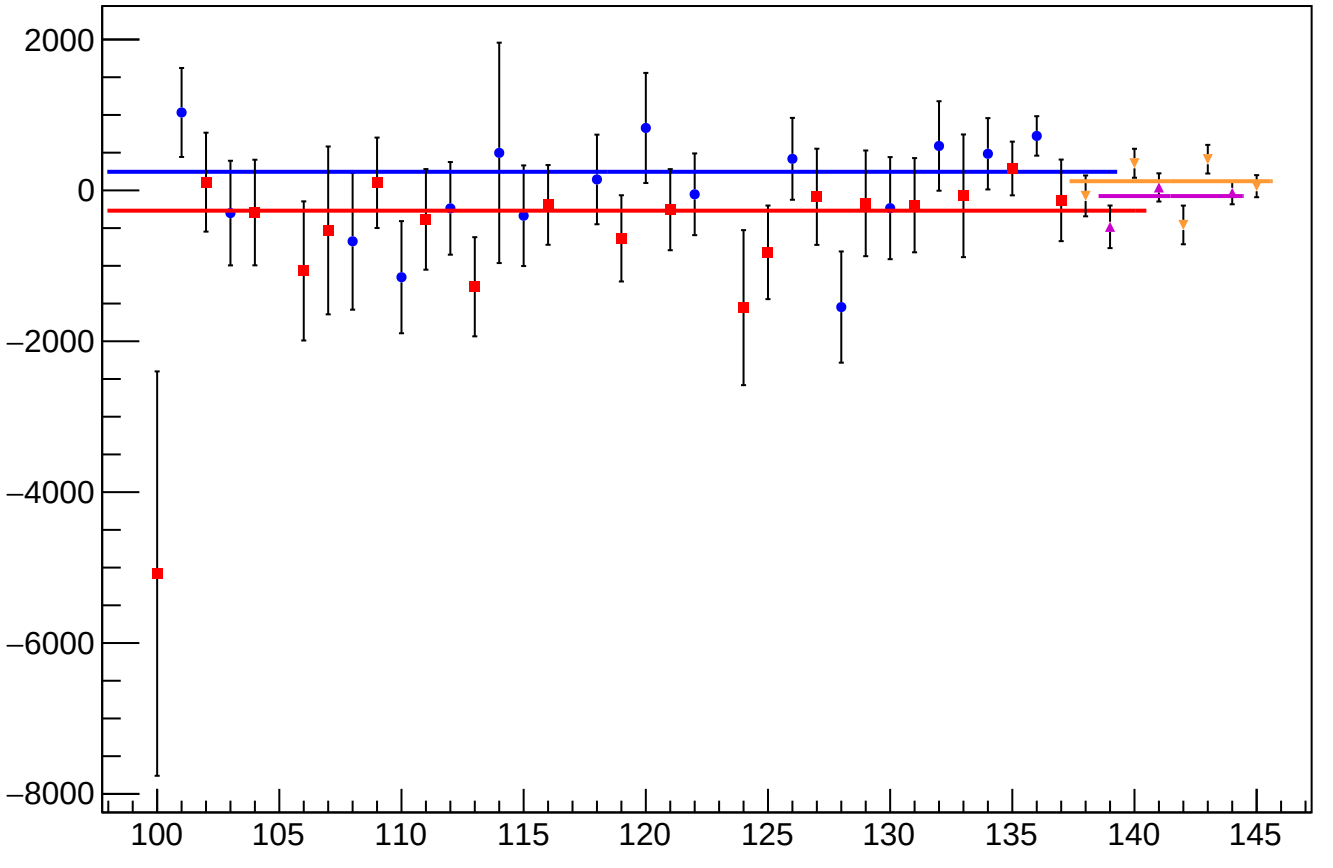
Left: 26.088+/-0.007 $\chi^2$/NDF: 182396.8/7

Right: 35.199+/-0.007 $\chi^2$/NDF: 1440673.9/34

In: 30.970+/-0.007 $\chi^2$/NDF:1090661.8/18

Out: 31.268+/-0.007 $\chi^2$/NDF:1354048.2/23

All: 31.126+/-0.005 $\chi^2$/NDF: 2445602.1/42




Right In: 246.505+/-140.274 $\chi^2$/NDF: 19.8/15

Left Out: 121.697+/-87.577 $\chi^2$/NDF:9.7/4

Right Out: -268.913+/-145.295 $\chi^2$/NDF: 12.6/18

Left In: -75.164+/-108.457 $\chi^2$/NDF:2.5/2

Left: 43.999+/-68.137 $\chi^2$/NDF: 14.3/7

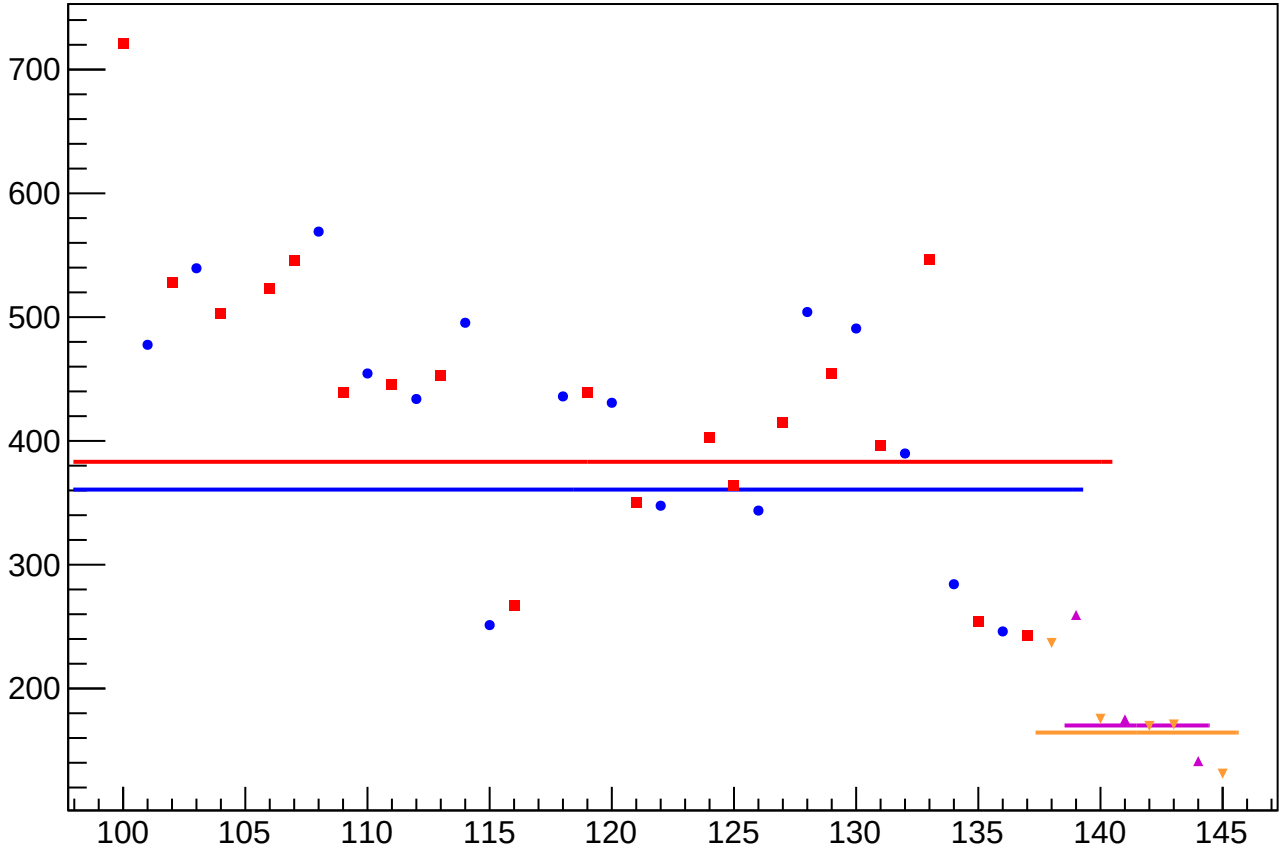
Right: -2.145+/-100.917 $\chi^2$/NDF: 38.9/34

In: 45.185+/-85.802 $\chi^2$/NDF:25.6/18

Out: 17.603+/-75.005 $\chi^2$/NDF:27.7/23

All: 29.551+/-56.470 $\chi^2$/NDF: 53.3/42

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: 164.397+/-0.062 $\chi^2$/NDF:255717.0/4

Right Out: 383.131+/-0.103 $\chi^2$/NDF: 963120.8/18

Left In: 170.129+/-0.077 $\chi^2$/NDF:273981.7/2

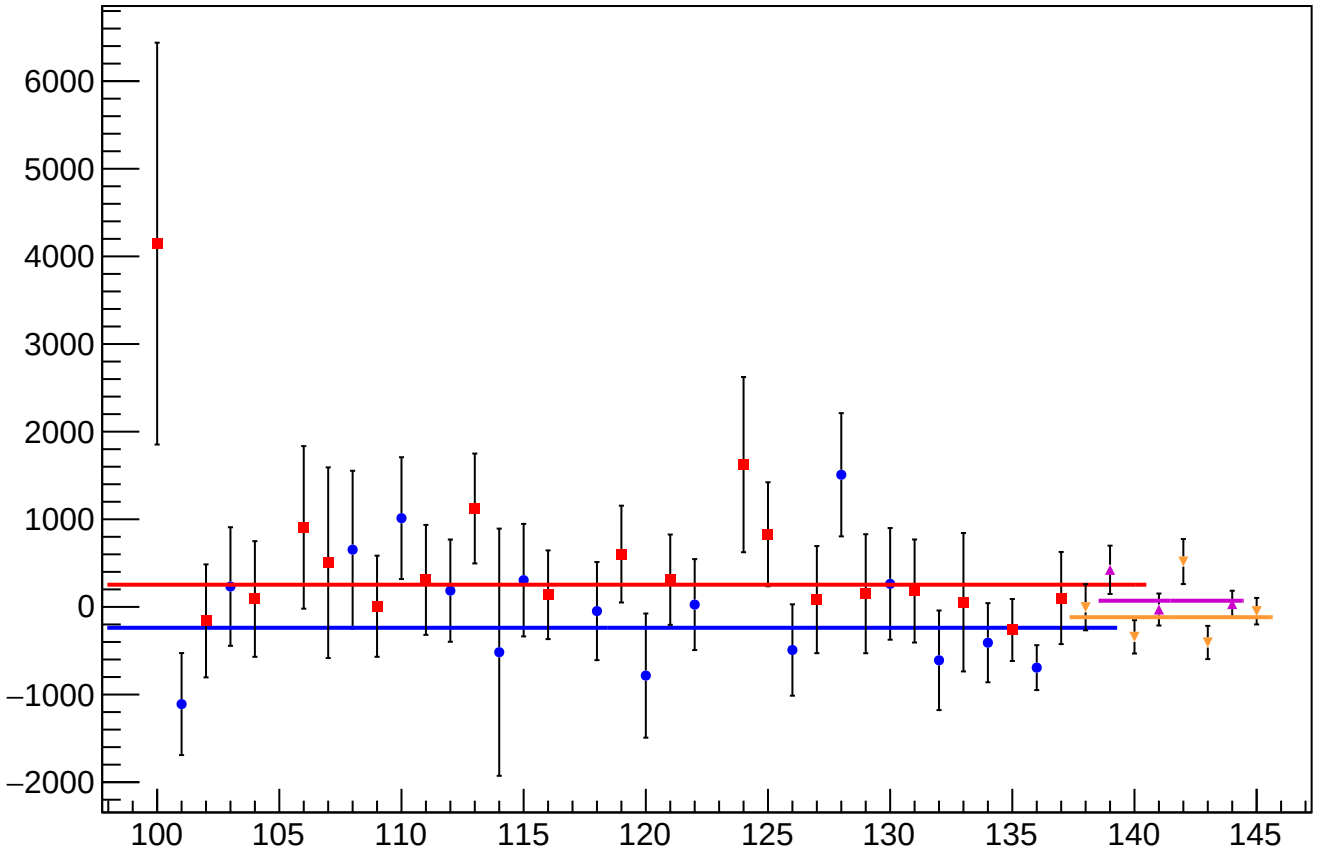
Left: 166.659+/-0.048 $\chi^2$/NDF: 533080.3/7

Right: 371.517+/-0.071 $\chi^2$/NDF: 2080563.7/34

In: 241.426+/-0.061 $\chi^2$/NDF:3676811.1/18

Out: 222.688+/-0.053 $\chi^2$/NDF:4543646.8/23

All: 230.804+/-0.040 $\chi^2$/NDF: 8274527.8/42




Right In: -238.043+/-135.349 $\chi^2$/NDF: 19.9/15

Left Out: -117.260+/-88.102 $\chi^2$/NDF:10.2/4

Right Out: 253.445+/-140.414 $\chi^2$/NDF: 11.7/18

Left In: 70.694+/-107.649 $\chi^2$/NDF:2.0/2

Left: -41.866+/-68.179 $\chi^2$/NDF: 14.0/7

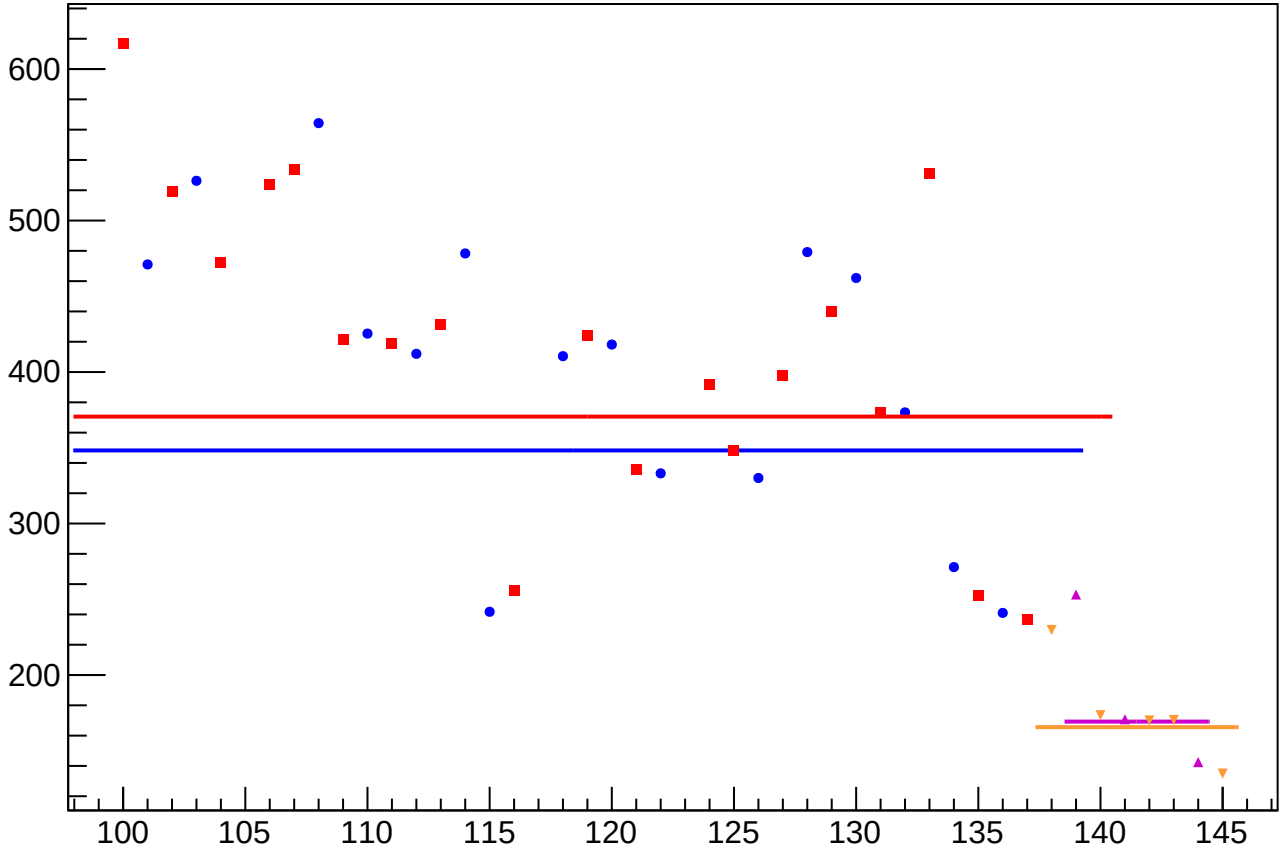
Right: -1.323+/-97.448 $\chi^2$/NDF: 38.0/34

In: -48.933+/-84.251 $\chi^2$/NDF:25.1/18

Out: -12.543+/-74.628 $\chi^2$/NDF:26.9/23

All: -28.542+/-55.864 $\chi^2$/NDF: 52.1/42

# asym_sam_1357_2468_dd_rms vs Slug, Sign Corrected




Right In: 348.253+/-0.096 $\chi^2$/NDF: 1056820.3/15

Left Out: 165.594+/-0.062 $\chi^2$/NDF:206254.5/4

Right Out: 370.585+/-0.099 $\chi^2$/NDF: 917913.5/18

Left In: 169.255+/-0.076 $\chi^2$/NDF:247118.0/2

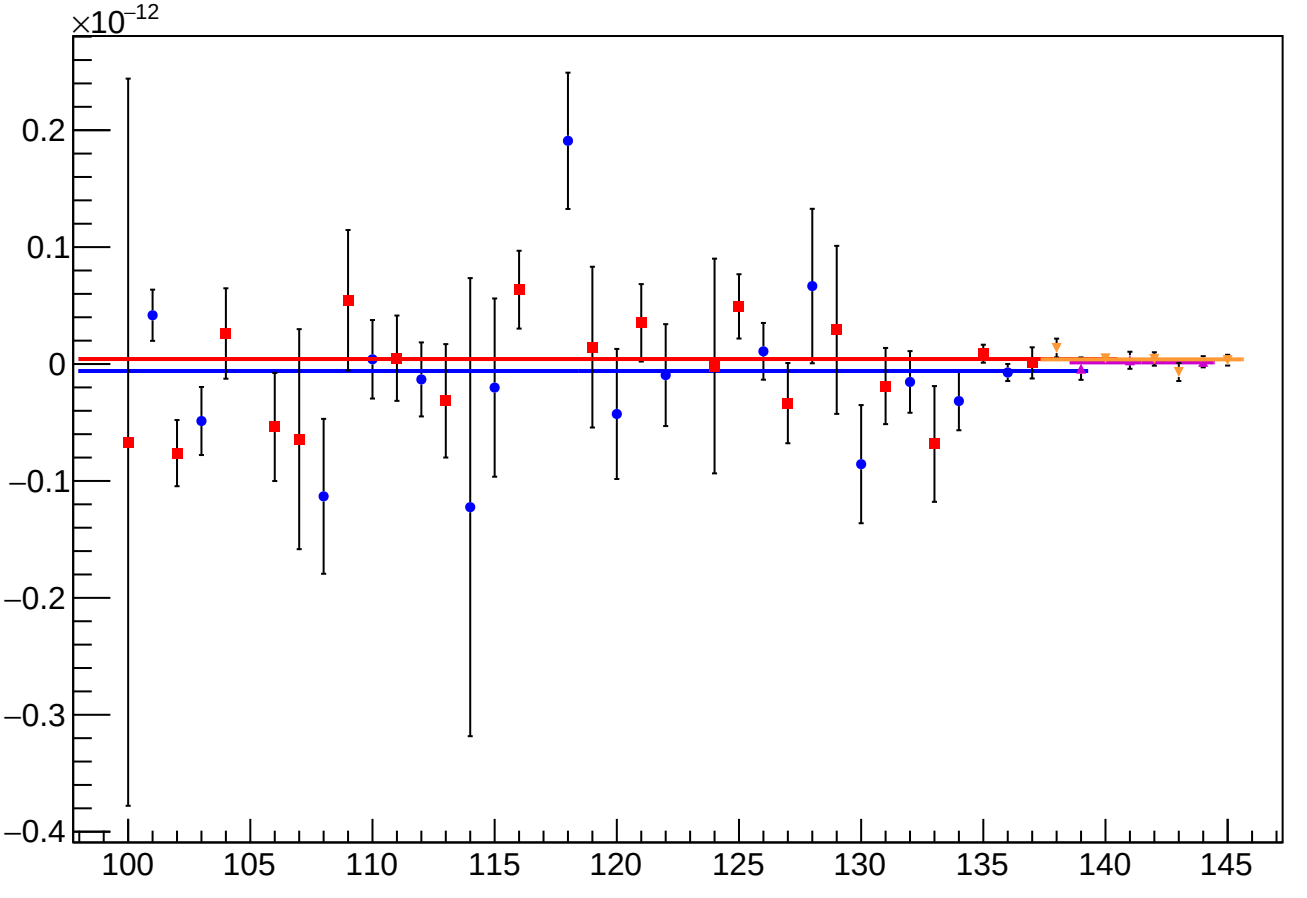
Left: 167.063+/-0.048 $\chi^2$/NDF: 454757.1/7

Right: 359.009+/-0.069 $\chi^2$/NDF: 2000959.8/34

In: 238.611+/-0.060 $\chi^2$/NDF:3446550.3/18

Out: 223.500+/-0.053 $\chi^2$/NDF:4182698.6/23

All: 230.144+/-0.040 $\chi^2$/NDF: 7665299.5/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 27.3/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3.5/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.0/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:0.4/2

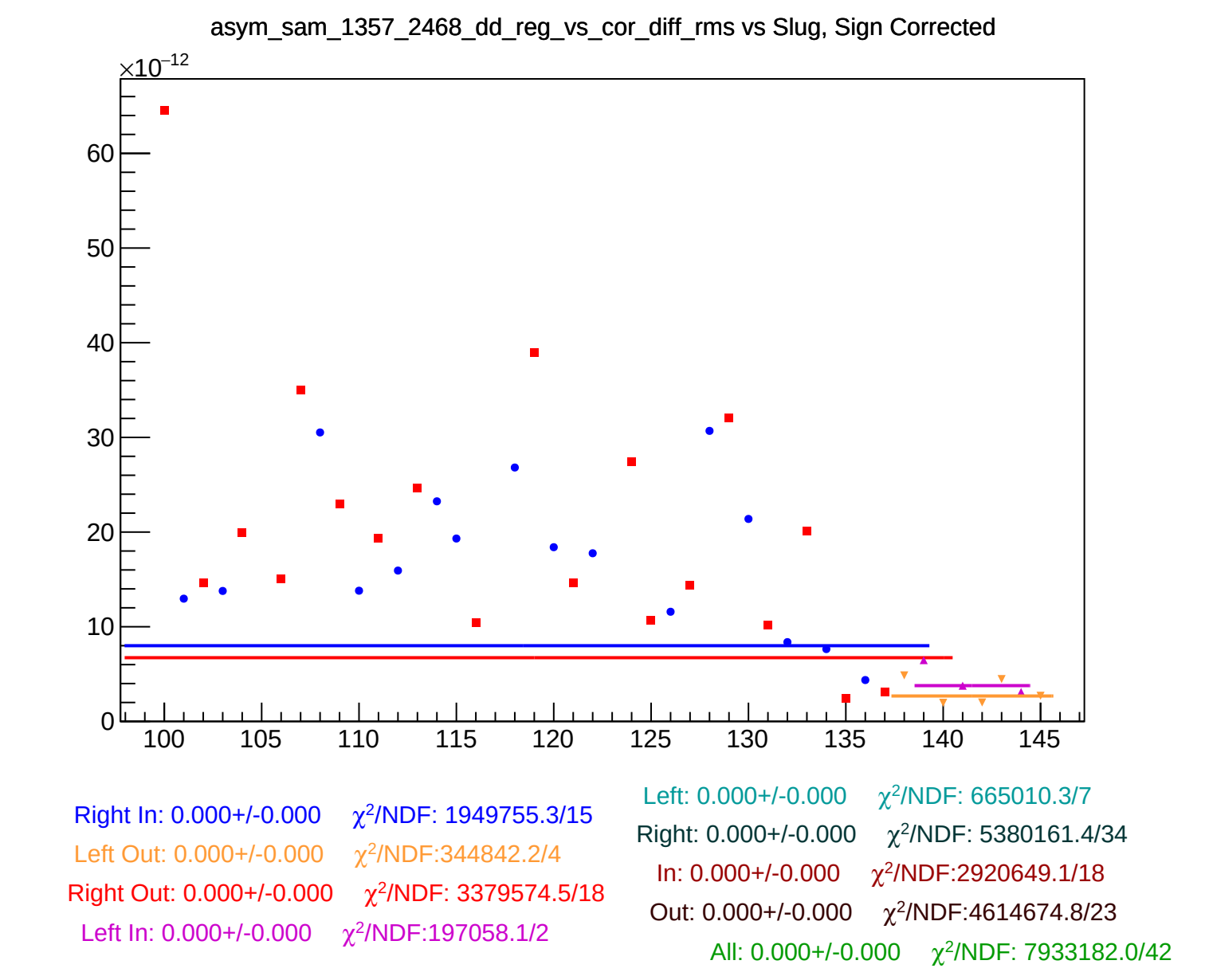
Left: 0.000+/-0.000 $\chi^2$/NDF: 4.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 51.9/34

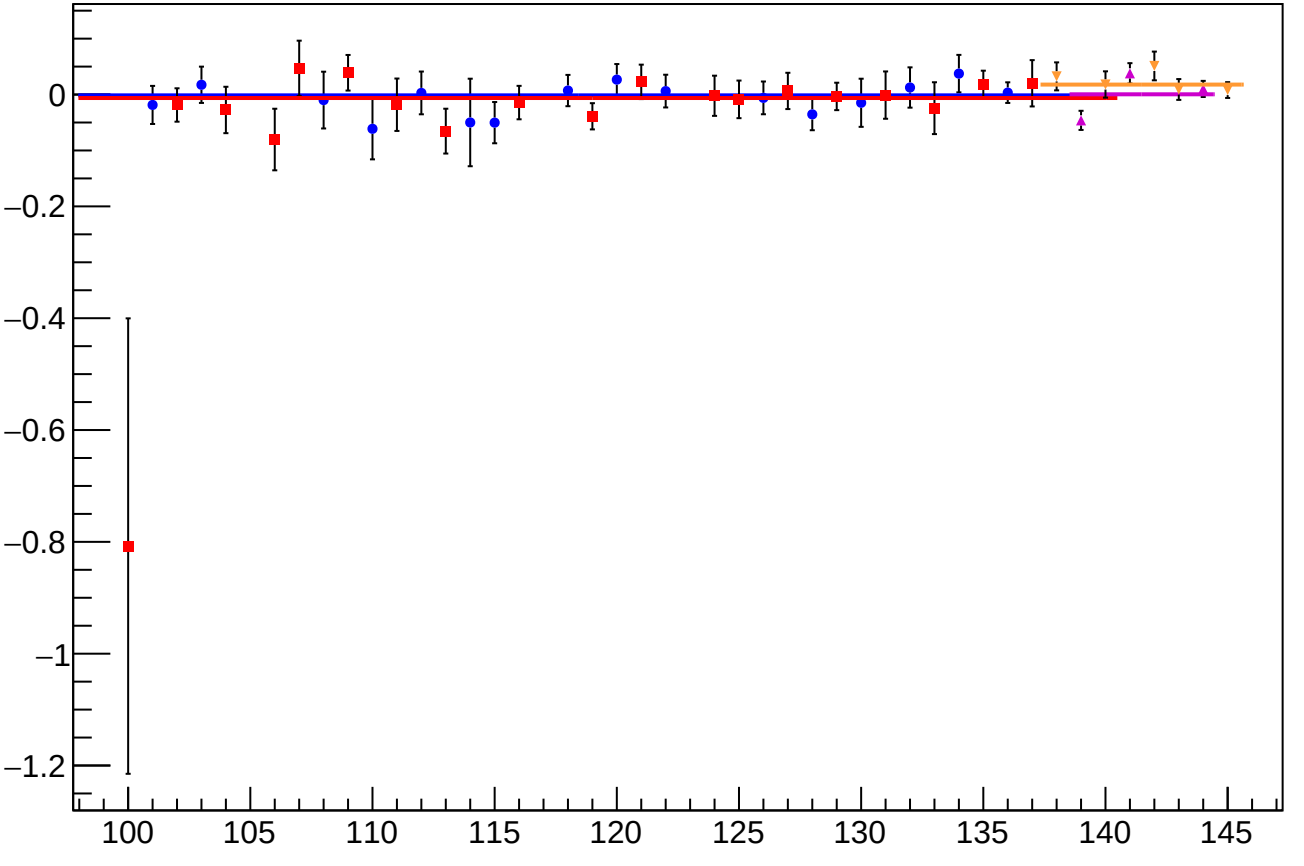
In: -0.000+/-0.000 $\chi^2$/NDF:28.9/18

Out: 0.000+/-0.000 $\chi^2$/NDF:26.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 56.9/42


asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
60
50
40
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 1949755.3/15
Left Out: 0.000+/-0.000 χ²/NDF:344842.2/4
Right Out: 0.000+/-0.000 χ²/NDF: 3379574.5/18
Left In: 0.000+/-0.000 χ²/NDF:197058.1/2
Left: 0.000+/-0.000 χ²/NDF: 665010.3/7
Right: 0.000+/-0.000 χ²/NDF: 5380161.4/34
In: 0.000+/-0.000 χ²/NDF:2920649.1/18
Out: 0.000+/-0.000 χ²/NDF:4614674.8/23
All: 0.000+/-0.000 χ²/NDF: 7933182.0/42

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: 0.018+/-0.009 $\chi^2$/NDF:2.7/4

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: 0.000+/-0.009 $\chi^2$/NDF:12.1/2

Left: 0.010+/-0.006 $\chi^2$/NDF: 16.7/7

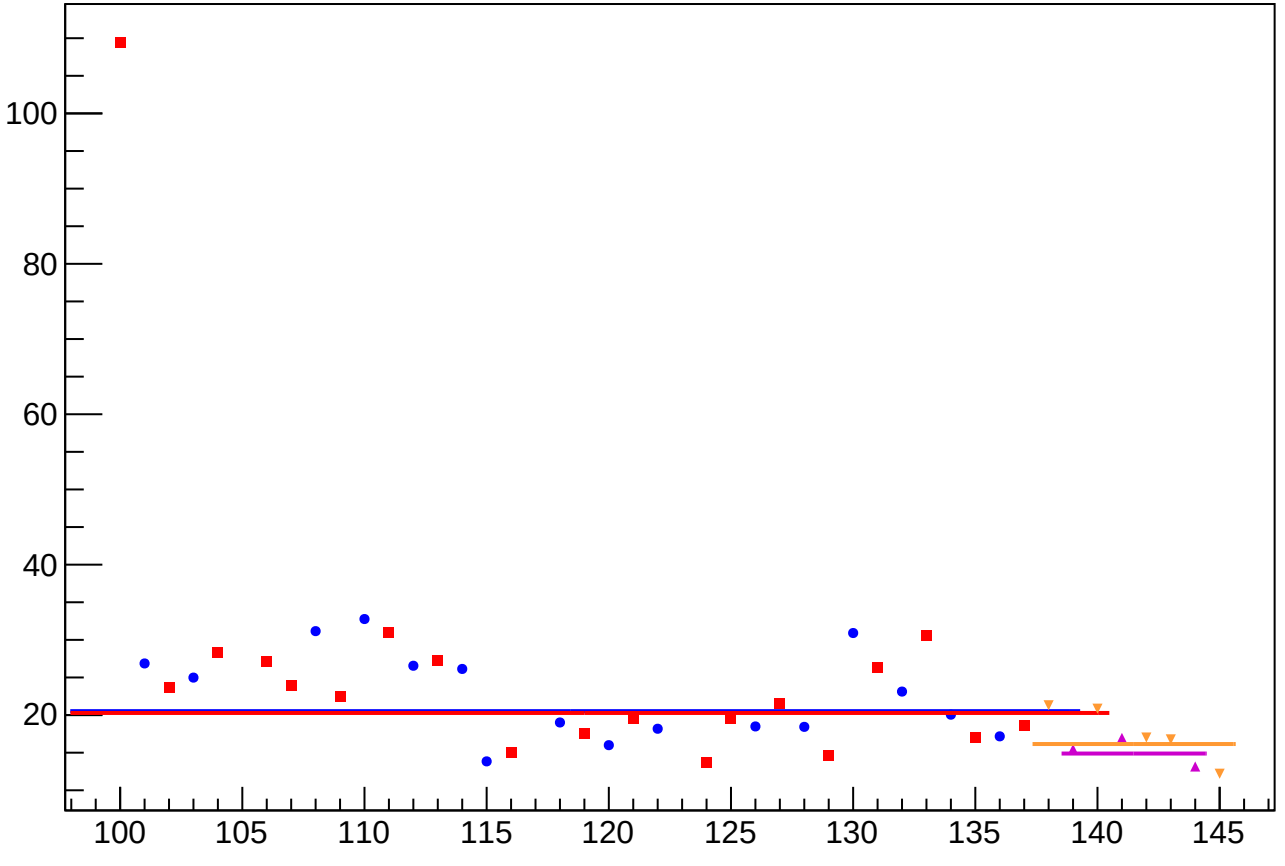
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.001+/-0.006 $\chi^2$/NDF:20.4/18

Out: 0.004+/-0.006 $\chi^2$/NDF:23.1/23

All: 0.002+/-0.004 $\chi^2$/NDF: 43.8/42

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: 16.151+/-0.006 $\chi^2$/NDF:325204.6/4

Right Out: 20.282+/-0.006 $\chi^2$/NDF: 864352.6/18

Left In: 14.885+/-0.007 $\chi^2$/NDF:57058.1/2

Left: 15.559+/-0.005 $\chi^2$/NDF: 401464.7/7

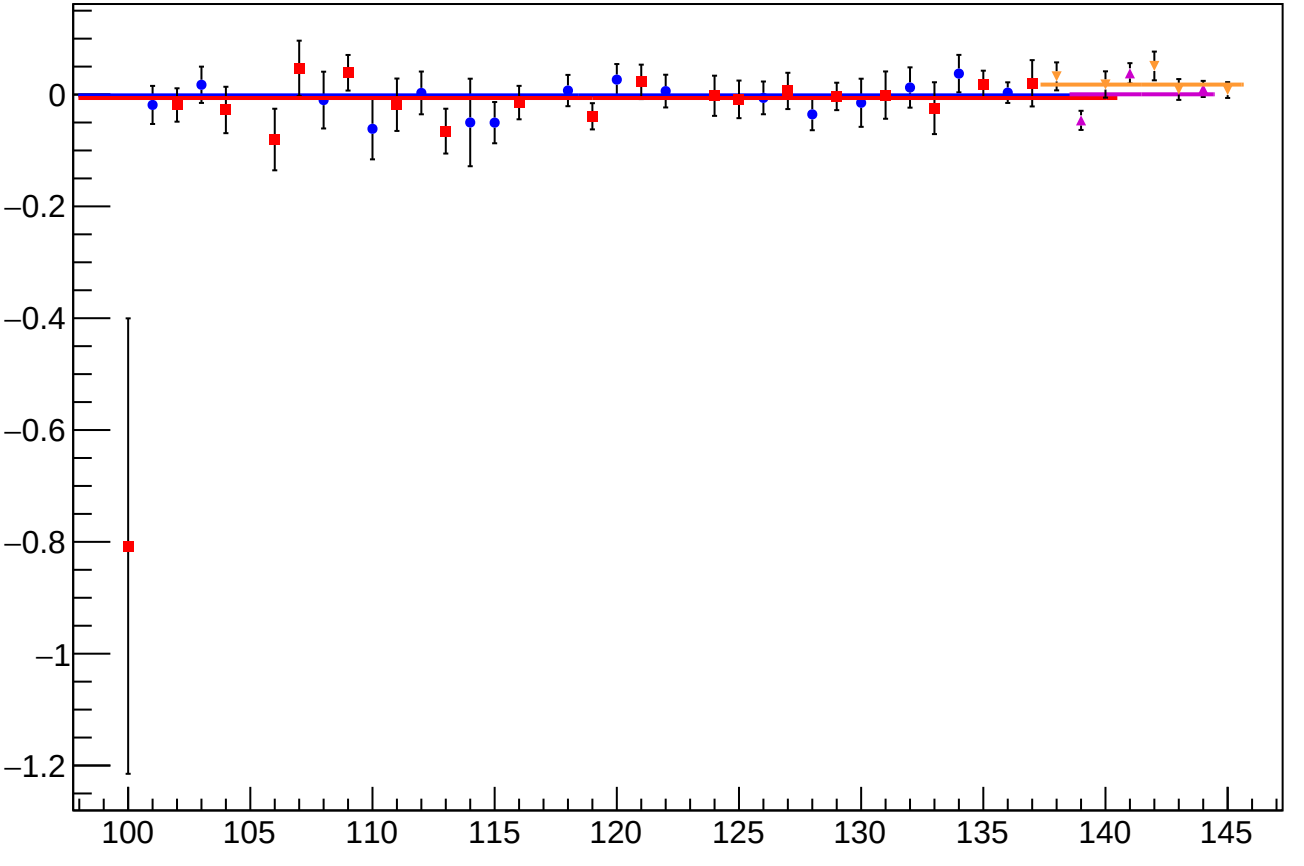
Right: 20.399+/-0.004 $\chi^2$/NDF: 1571258.3/34

In: 18.142+/-0.004 $\chi^2$/NDF:1176036.3/18

Out: 18.450+/-0.004 $\chi^2$/NDF:1432962.3/23

All: 18.302+/-0.003 $\chi^2$/NDF: 2611640.2/42

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: 0.018+/-0.009 $\chi^2$/NDF:2.7/4

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: 0.000+/-0.009 $\chi^2$/NDF:12.1/2

Left: 0.010+/-0.006 $\chi^2$/NDF: 16.7/7

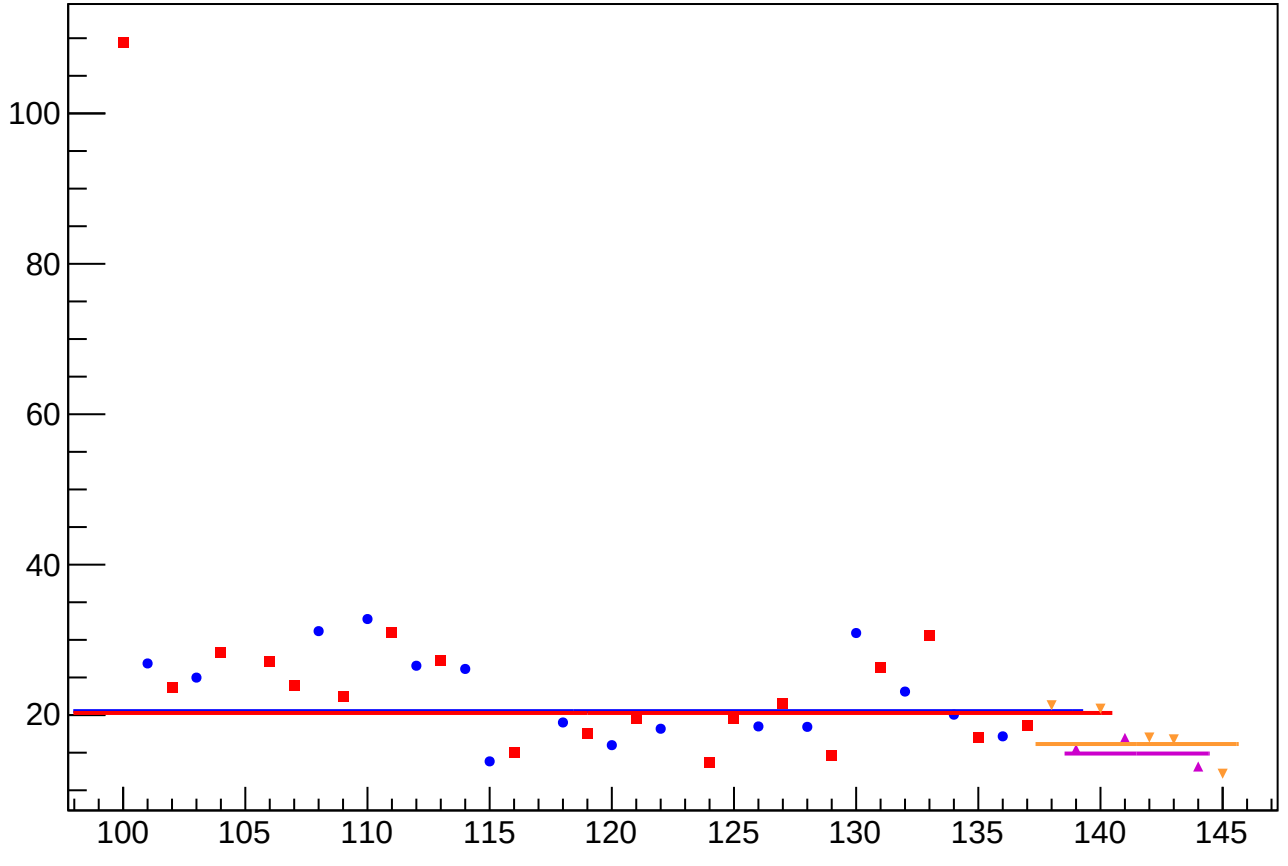
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.001+/-0.006 $\chi^2$/NDF:20.4/18

Out: 0.004+/-0.006 $\chi^2$/NDF:23.1/23

All: 0.002+/-0.004 $\chi^2$/NDF: 43.8/42

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: 16.151+/-0.006 $\chi^2$/NDF:325204.6/4

Right Out: 20.282+/-0.006 $\chi^2$/NDF: 864352.6/18

Left In: 14.885+/-0.007 $\chi^2$/NDF:57058.1/2

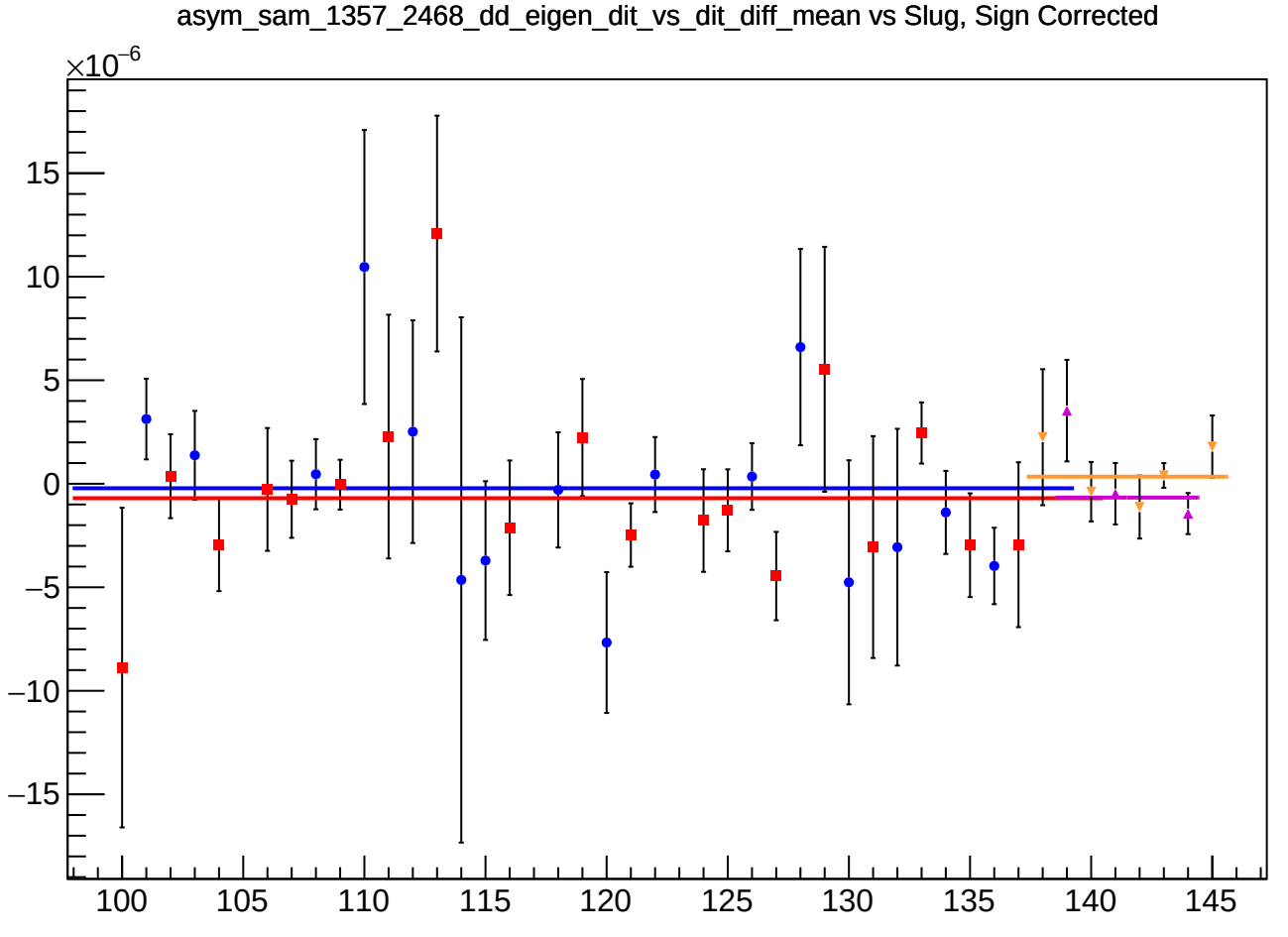
Left: 15.559+/-0.005 $\chi^2$/NDF: 401464.7/7

Right: 20.399+/-0.004 $\chi^2$/NDF: 1571258.3/34

In: 18.142+/-0.004 $\chi^2$/NDF:1176036.3/18

Out: 18.450+/-0.004 $\chi^2$/NDF:1432962.3/23

All: 18.302+/-0.003 $\chi^2$/NDF: 2611640.2/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.9/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2.5/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.0/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:3.6/2

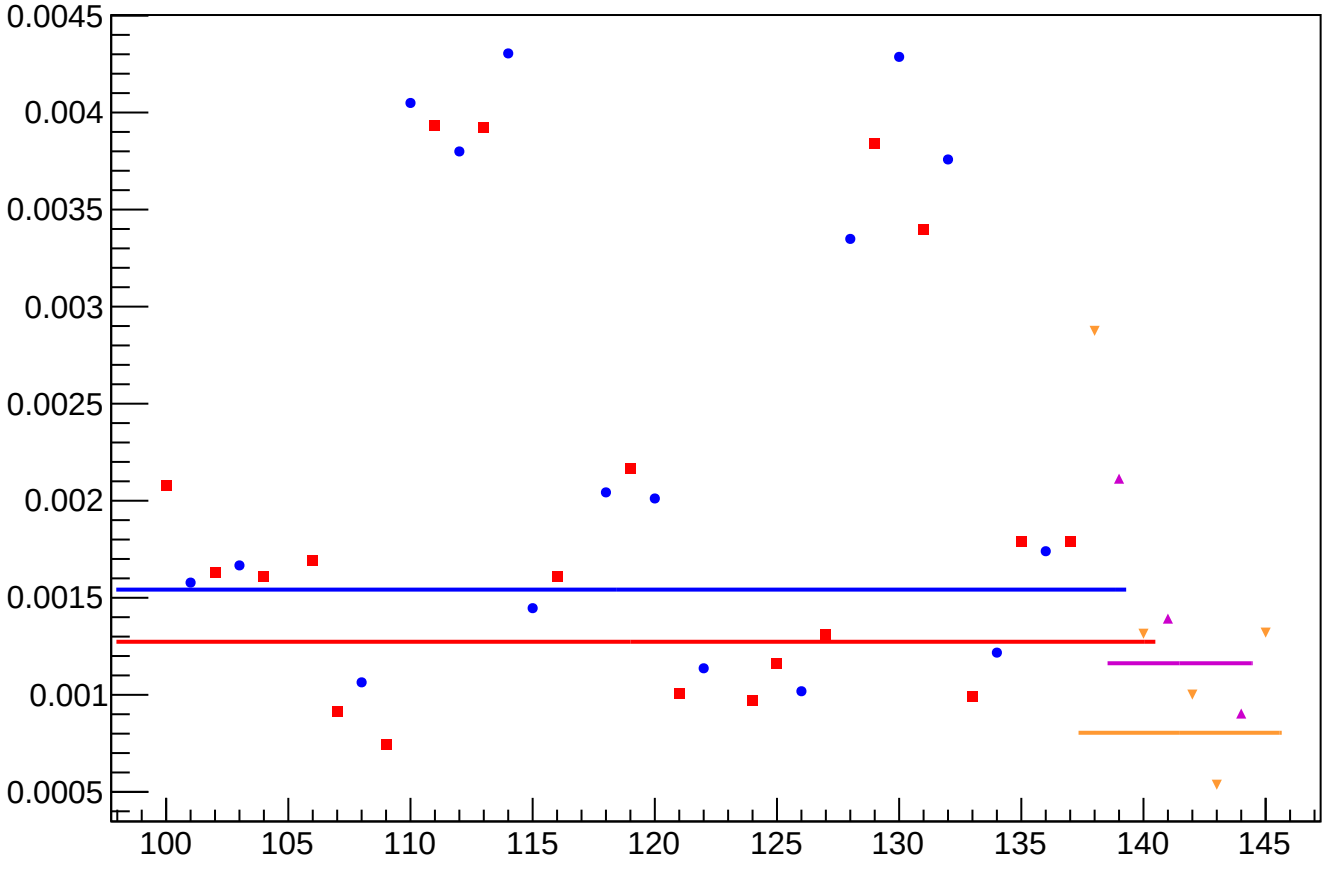
Left: 0.000+/-0.000 $\chi^2$/NDF: 7.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.2/34

In: -0.000+/-0.000 $\chi^2$/NDF:23.7/18

Out: -0.000+/-0.000 $\chi^2$/NDF:25.6/23

All: -0.000+/-0.000 $\chi^2$/NDF: 49.4/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2416805.2/15

Left Out: 0.001+/-0.000 $\chi^2$/NDF:1716411.2/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2667436.5/18

Left In: 0.001+/-0.000 $\chi^2$/NDF:484619.5/2

Left: 0.001+/-0.000 $\chi^2$/NDF: 2503839.7/7

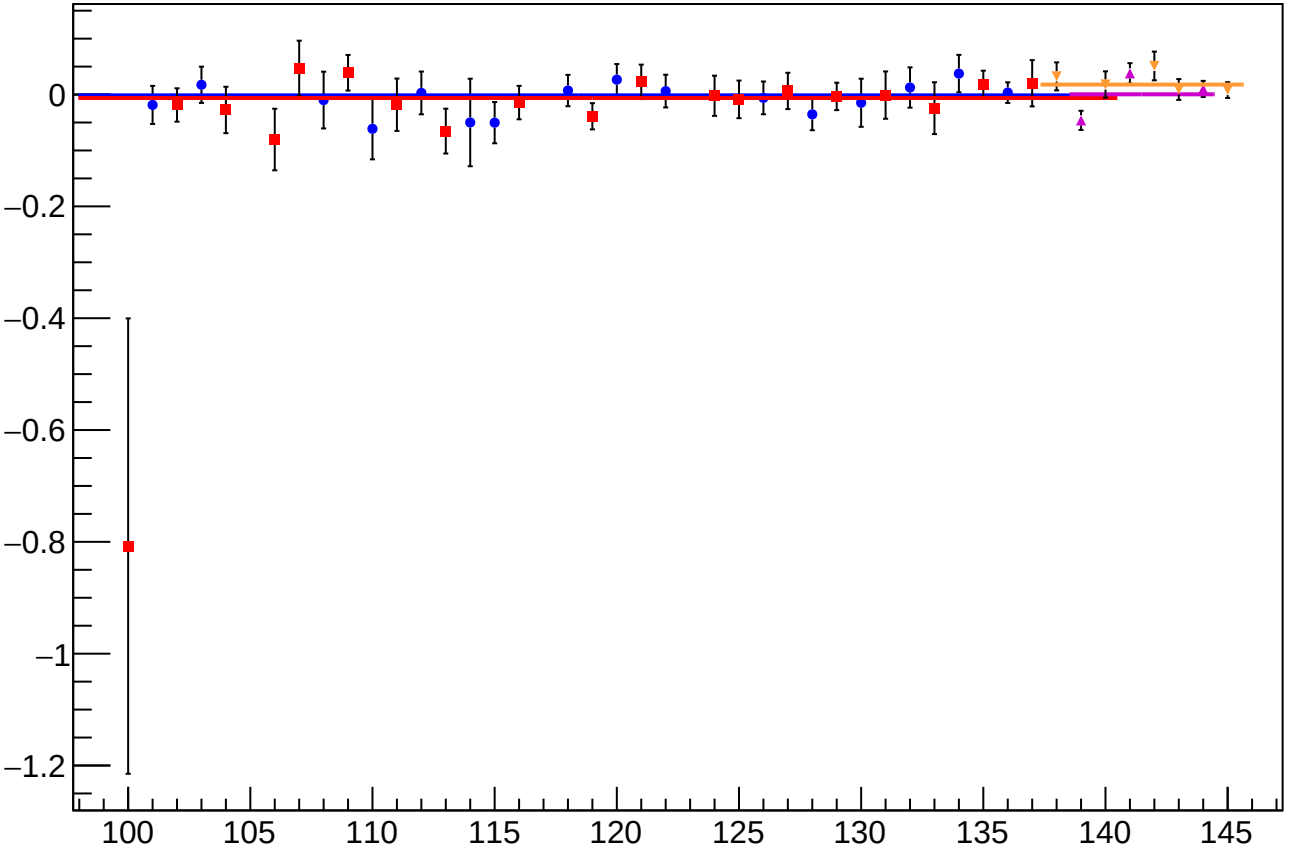
Right: 0.001+/-0.000 $\chi^2$/NDF: 5298926.0/34

In: 0.001+/-0.000 $\chi^2$/NDF:3186496.0/18

Out: 0.001+/-0.000 $\chi^2$/NDF:5246210.5/23

All: 0.001+/-0.000 $\chi^2$/NDF: 9184963.3/42

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.018+/-0.009 $\chi^2$/NDF:2.7/4

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: 0.000+/-0.009 $\chi^2$/NDF:12.1/2

Left: 0.010+/-0.006 $\chi^2$/NDF: 16.7/7

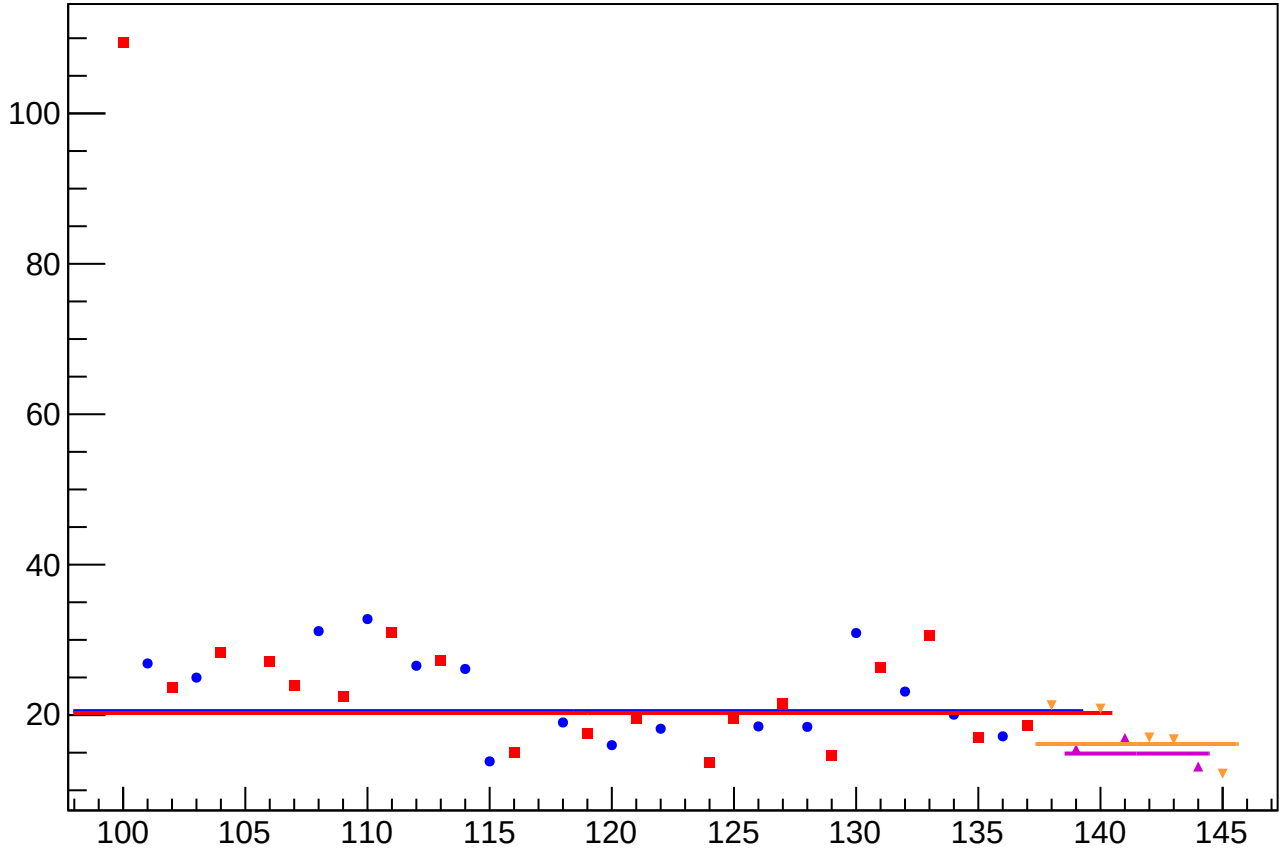
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.001+/-0.006 $\chi^2$/NDF:20.4/18

Out: 0.004+/-0.006 $\chi^2$/NDF:23.1/23

All: 0.002+/-0.004 $\chi^2$/NDF: 43.8/42

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: 16.151+/-0.006 $\chi^2$/NDF:325136.5/4

Right Out: 20.281+/-0.006 $\chi^2$/NDF: 864361.2/18

Left In: 14.885+/-0.007 $\chi^2$/NDF:57042.6/2

Left: 15.559+/-0.005 $\chi^2$/NDF: 401392.0/7

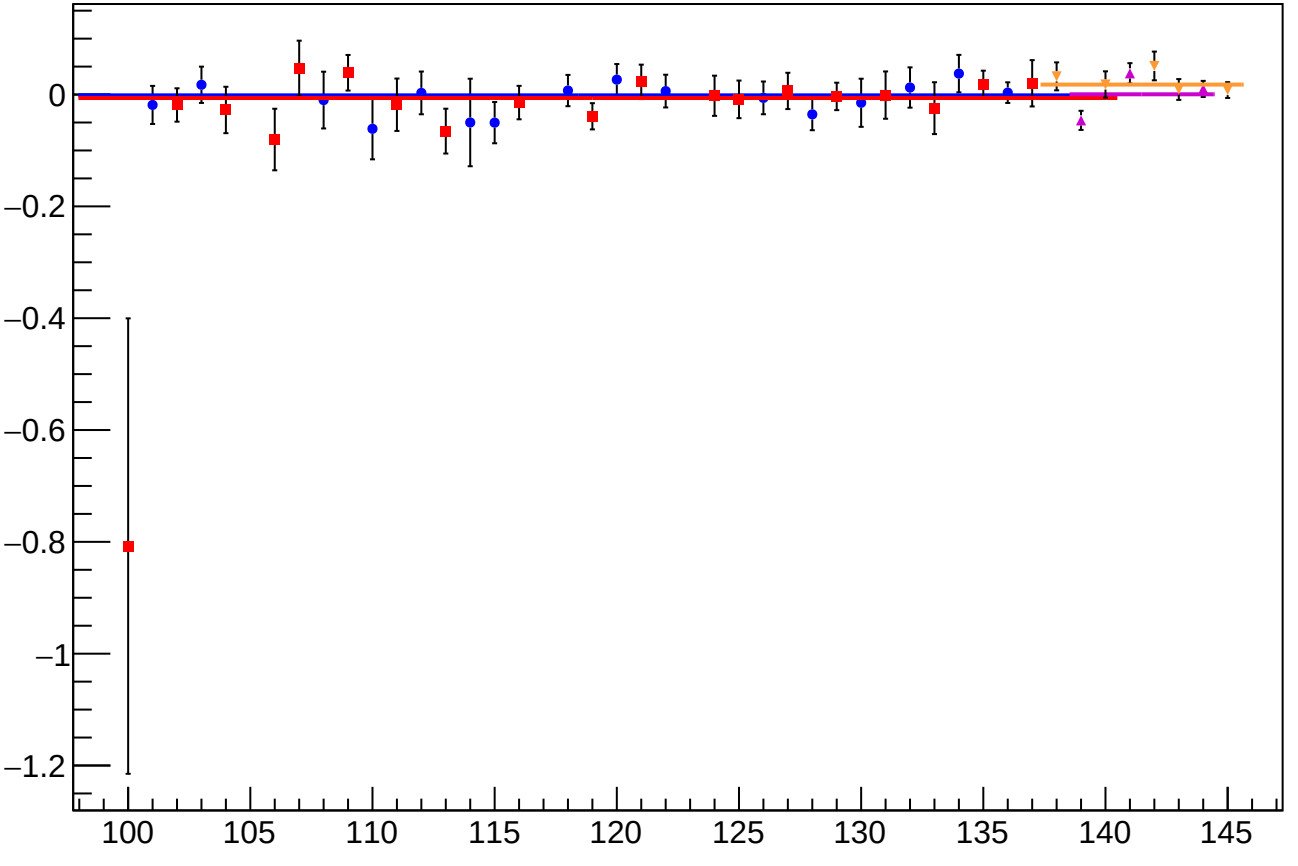
Right: 20.398+/-0.004 $\chi^2$/NDF: 1571146.6/34

In: 18.141+/-0.004 $\chi^2$/NDF:1175851.1/18

Out: 18.450+/-0.004 $\chi^2$/NDF:1432797.8/23

All: 18.302+/-0.003 $\chi^2$/NDF: 2611292.8/42

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.001+/-0.008 $\chi^2$/NDF: 8.3/15

Left Out: 0.018+/-0.009 $\chi^2$/NDF:2.7/4

Right Out: -0.006+/-0.008 $\chi^2$/NDF: 16.2/18

Left In: 0.000+/-0.009 $\chi^2$/NDF:12.1/2

Left: 0.010+/-0.006 $\chi^2$/NDF: 16.7/7

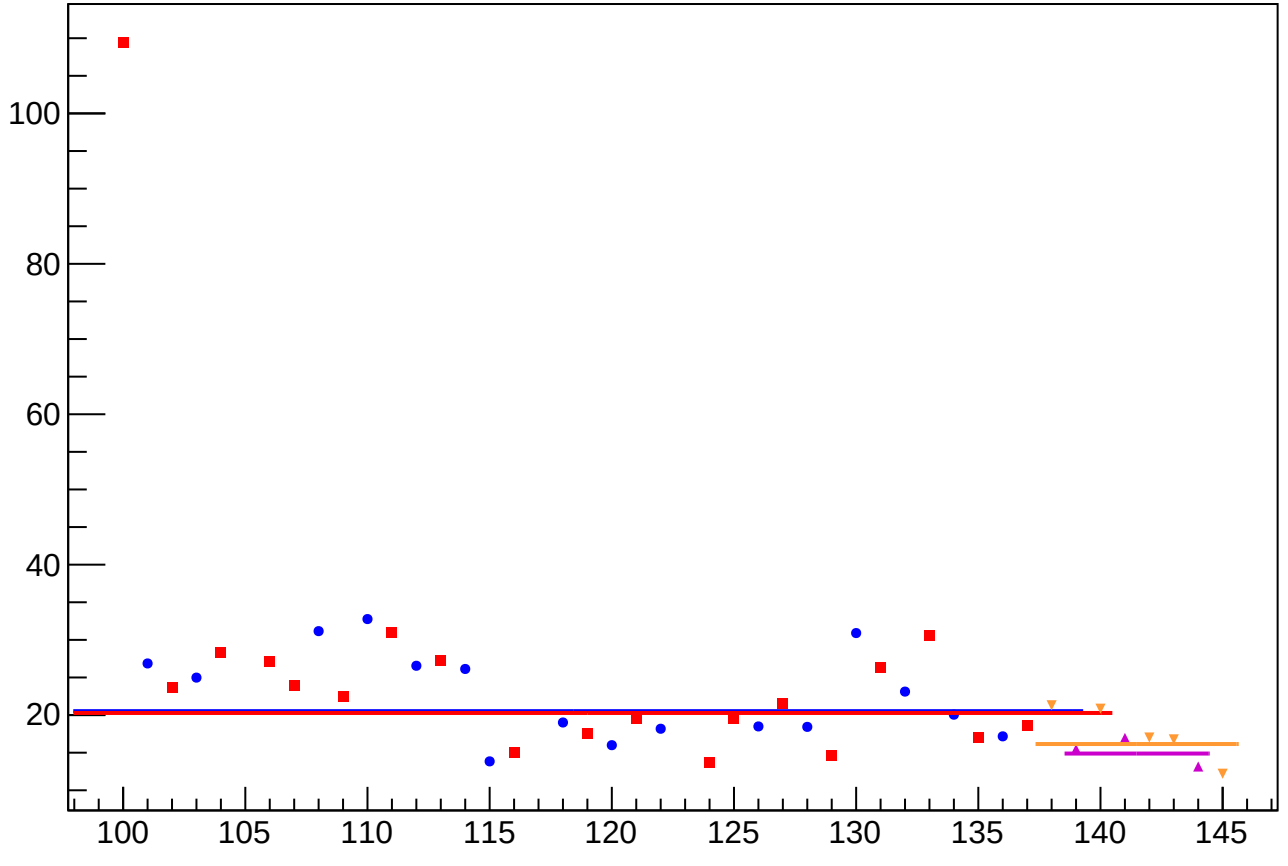
Right: -0.004+/-0.006 $\chi^2$/NDF: 24.7/34

In: -0.001+/-0.006 $\chi^2$/NDF:20.4/18

Out: 0.004+/-0.006 $\chi^2$/NDF:23.1/23

All: 0.002+/-0.004 $\chi^2$/NDF: 43.8/42

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: 16.151+/-0.006 $\chi^2$/NDF:325136.5/4

Right Out: 20.281+/-0.006 $\chi^2$/NDF: 864361.2/18

Left In: 14.885+/-0.007 $\chi^2$/NDF:57042.6/2

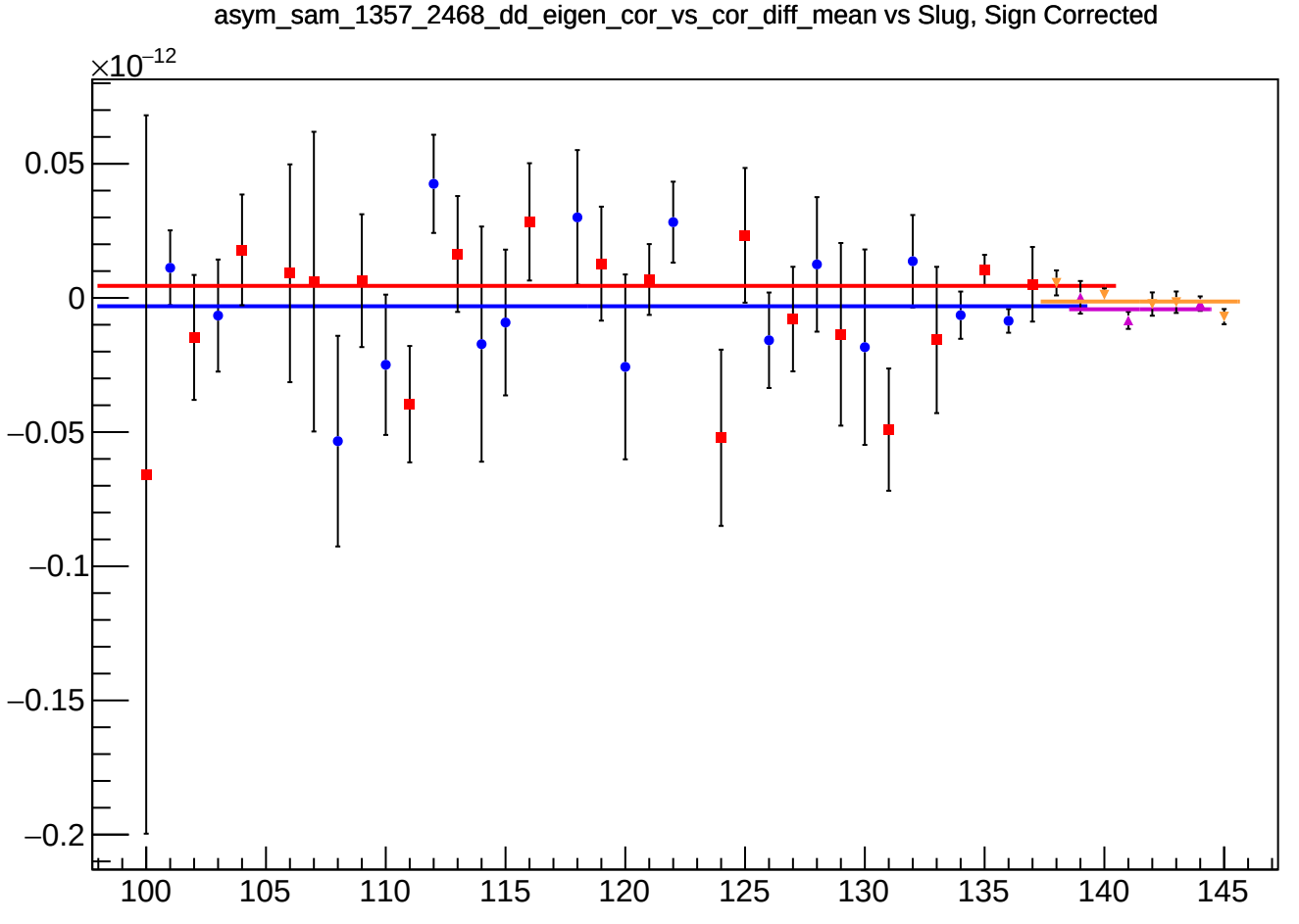
Left: 15.559+/-0.005 $\chi^2$/NDF: 401392.0/7

Right: 20.398+/-0.004 $\chi^2$/NDF: 1571146.6/34

In: 18.141+/-0.004 $\chi^2$/NDF:1175851.1/18

Out: 18.450+/-0.004 $\chi^2$/NDF:1432797.8/23

All: 18.302+/-0.003 $\chi^2$/NDF: 2611292.8/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.4/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.6/18

Left In: -0.000+/-0.000 $\chi^2$/NDF:2.8/2

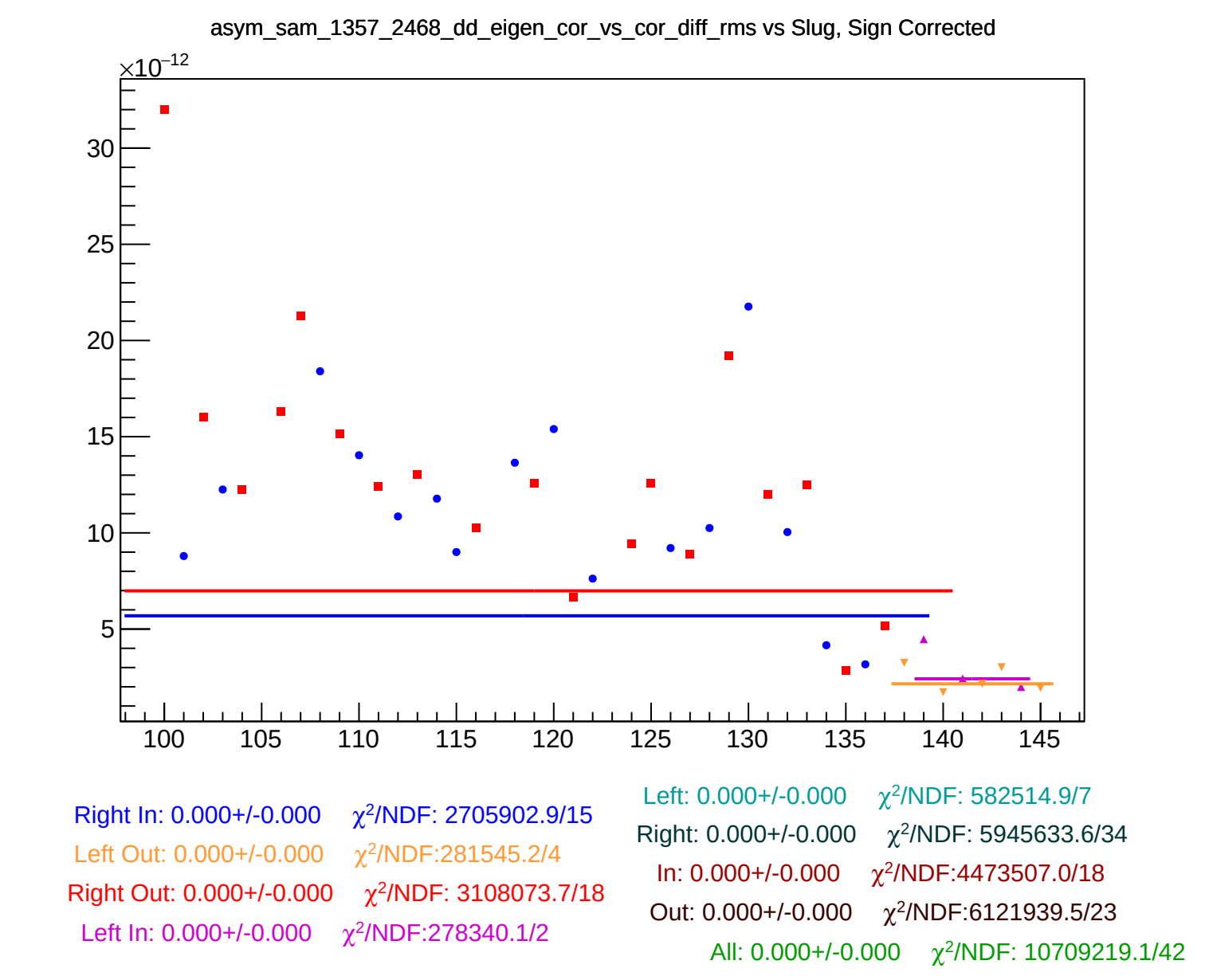
Left: -0.000+/-0.000 $\chi^2$/NDF: 11.6/7

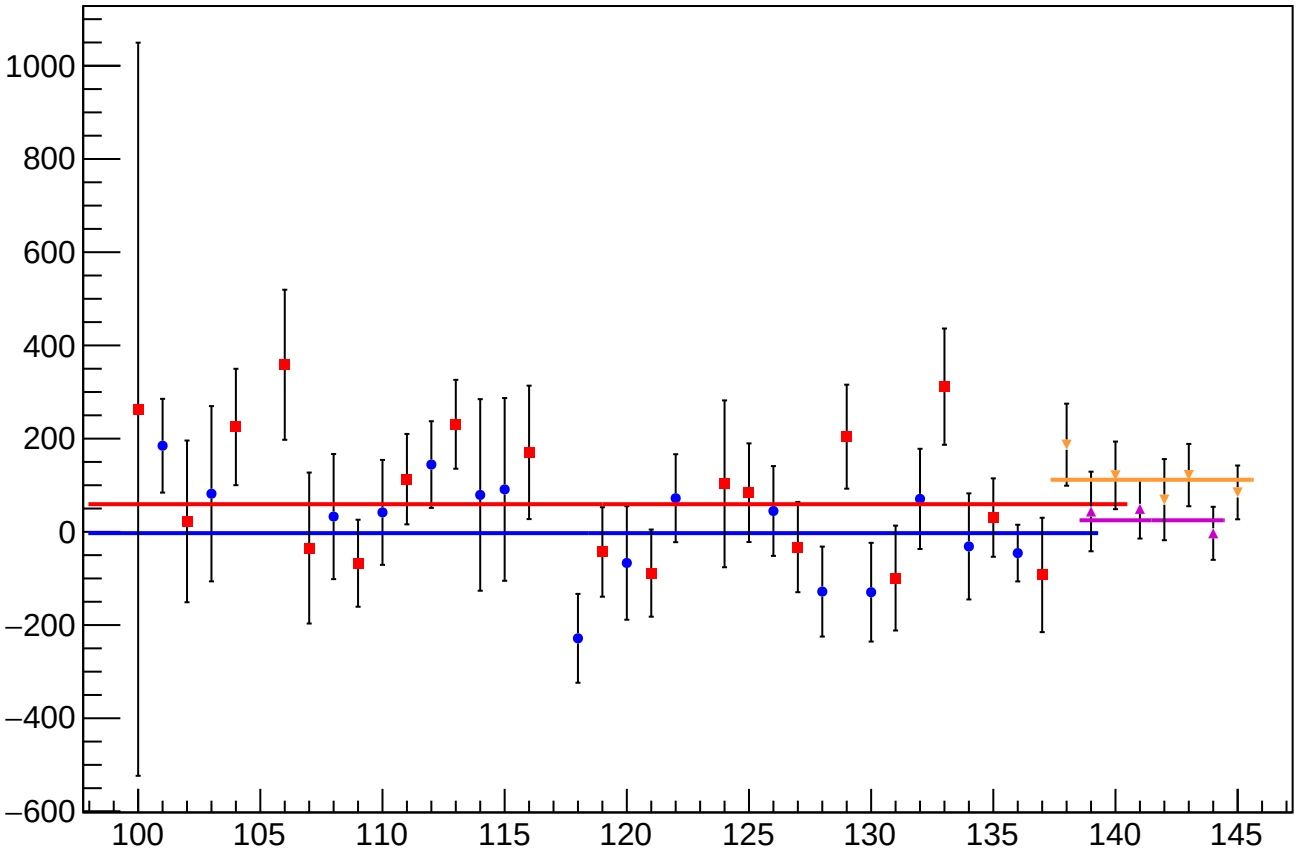
Right: 0.000+/-0.000 $\chi^2$/NDF: 40.8/34

In: -0.000+/-0.000 $\chi^2$/NDF:22.9/18

Out: -0.000+/-0.000 $\chi^2$/NDF:28.0/23

All: -0.000+/-0.000 $\chi^2$/NDF: 53.2/42


asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−12
30
25
20
15
10
5
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 2705902.9/15
Left Out: 0.000+/-0.000 χ²/NDF:281545.2/4
Right Out: 0.000+/-0.000 χ²/NDF: 3108073.7/18
Left In: 0.000+/-0.000 χ²/NDF:278340.1/2
Left: 0.000+/-0.000 χ²/NDF: 582514.9/7
Right: 0.000+/-0.000 χ²/NDF: 5945633.6/34
In: 0.000+/-0.000 χ²/NDF:4473507.0/18
Out: 0.000+/-0.000 χ²/NDF:6121939.5/23
All: 0.000+/-0.000 χ²/NDF: 10709219.1/42




Right In: -2.766+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 111.725+/-32.016 $\chi^2$/NDF:1.2/4

Right Out: 59.349+/-26.382 $\chi^2$/NDF: 25.7/18

Left In: 24.783+/-38.007 $\chi^2$/NDF:0.4/2

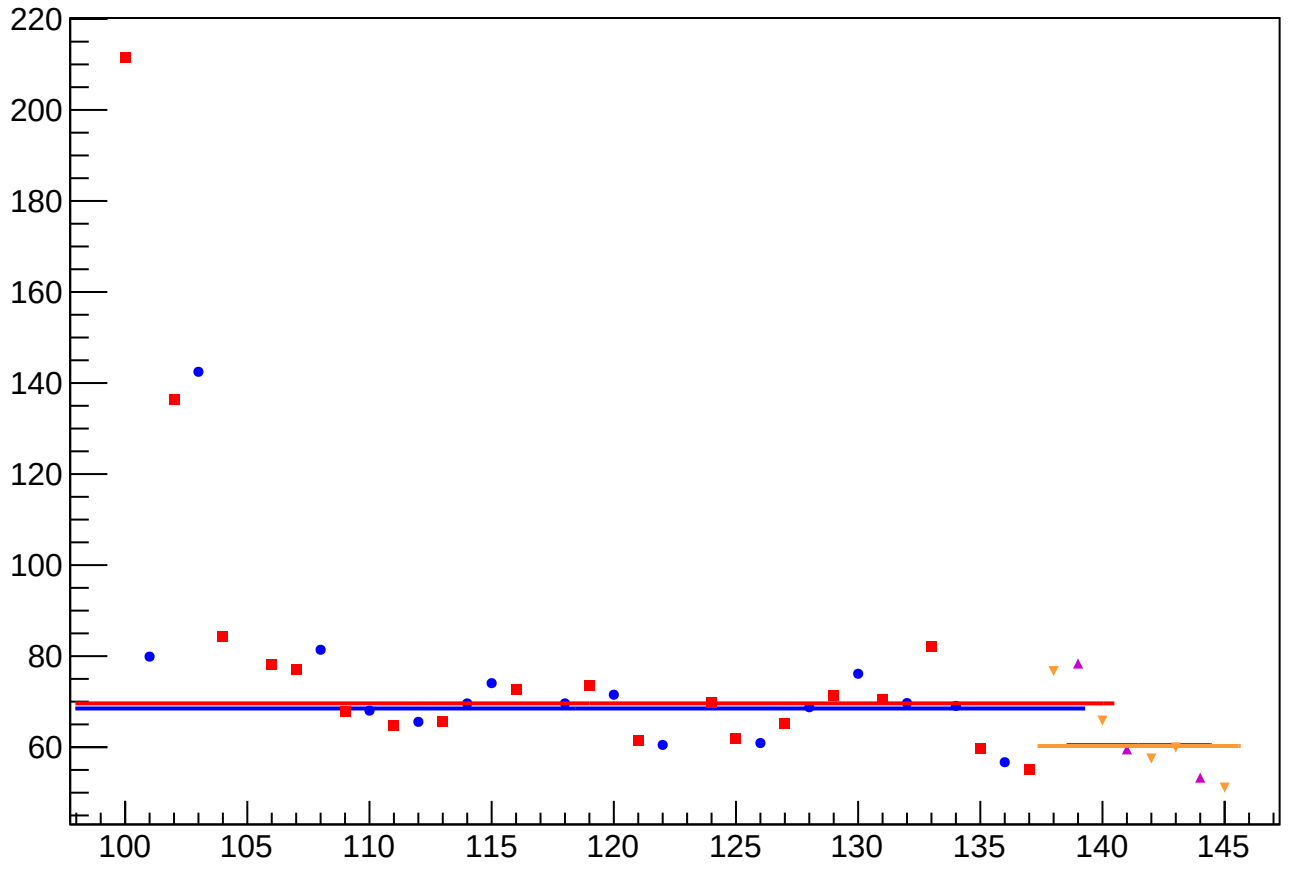
Left: 75.638+/-24.487 $\chi^2$/NDF: 4.7/7

Right: 28.091+/-18.595 $\chi^2$/NDF: 46.2/34

In: 6.114+/-21.579 $\chi^2$/NDF:18.5/18

Out: 80.530+/-20.360 $\chi^2$/NDF:28.5/23

All: 45.482+/-14.809 $\chi^2$/NDF: 53.3/42




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471865.0/15

Left Out: 60.258+/-0.023 $\chi^2$/NDF:133950.2/4

Right Out: 69.620+/-0.019 $\chi^2$/NDF: 520403.9/18

Left In: 60.481+/-0.027 $\chi^2$/NDF:120009.7/2

Left: 60.350+/-0.017 $\chi^2$/NDF: 254000.3/7

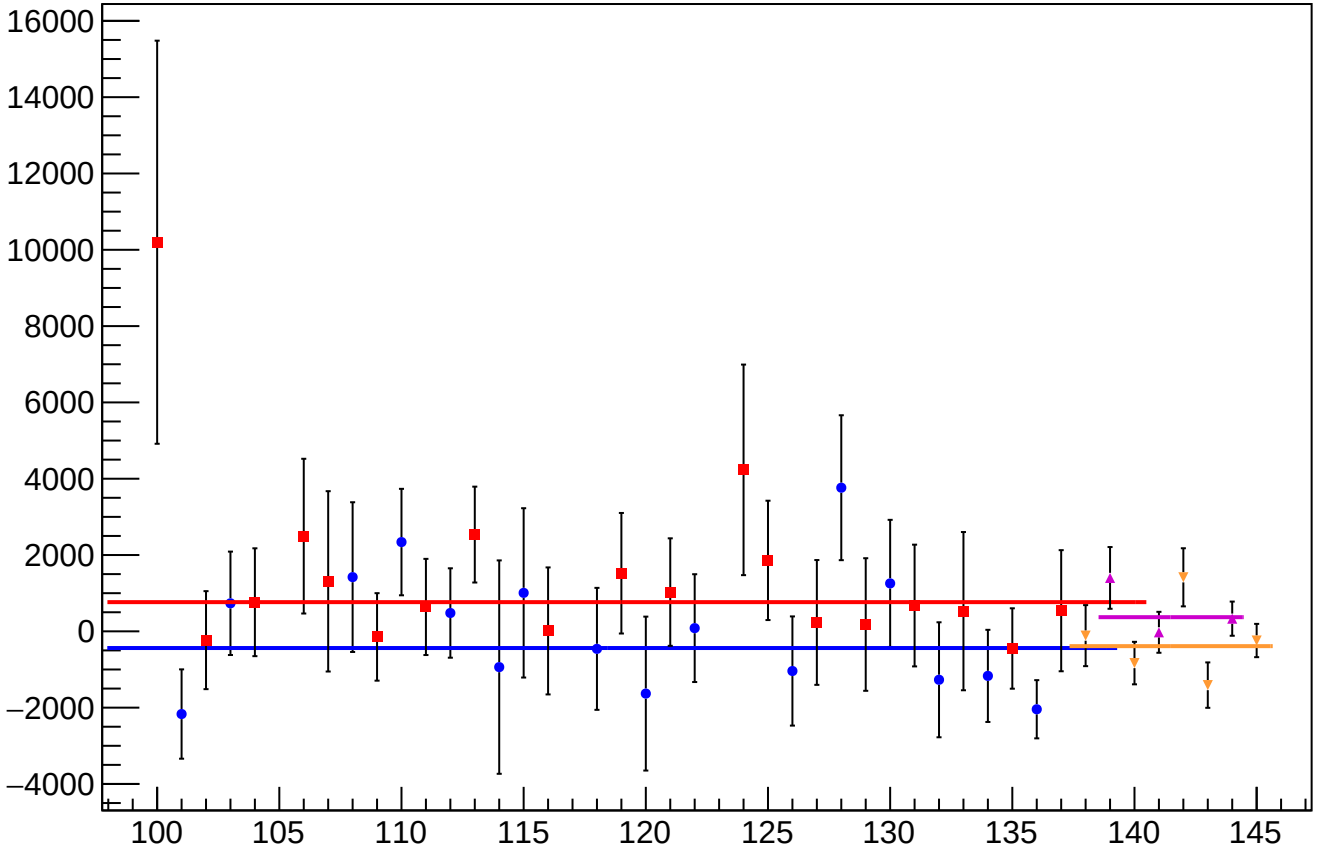
Right: 69.056+/-0.013 $\chi^2$/NDF: 994086.4/34

In: 65.914+/-0.015 $\chi^2$/NDF:652186.0/18

Out: 65.834+/-0.014 $\chi^2$/NDF:756206.3/23

All: 65.872+/-0.010 $\chi^2$/NDF: 1408407.1/42

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: -388.204+/-261.800 $\chi^2$/NDF:9.4/4

Right Out: 765.341+/-353.052 $\chi^2$/NDF: 11.3/18

Left In: 371.099+/-316.412 $\chi^2$/NDF:2.2/2

Left: -79.634+/-201.707 $\chi^2$/NDF: 15.0/7

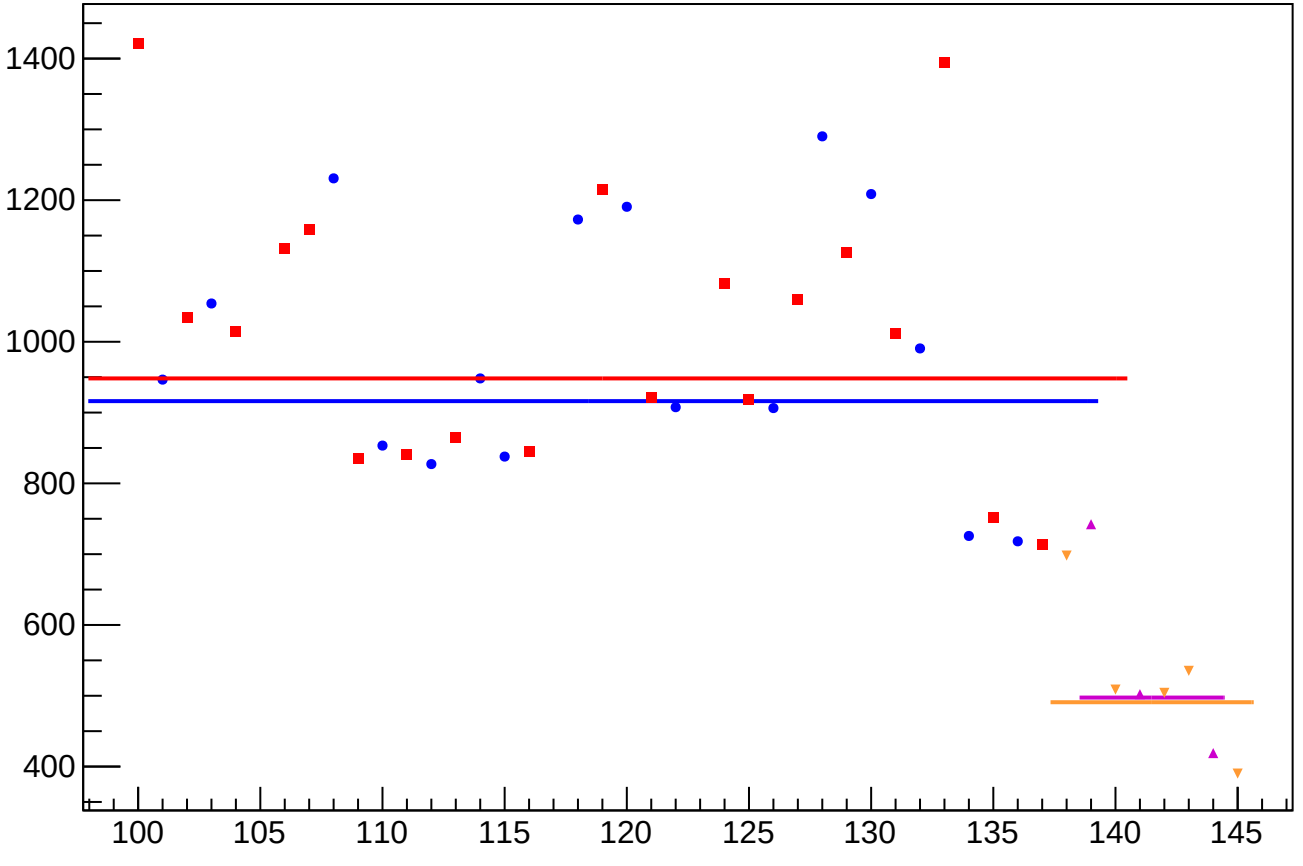
Right: 156.799+/-248.157 $\chi^2$/NDF: 37.7/34

In: 6.192+/-234.377 $\chi^2$/NDF:25.7/18

Out: 21.057+/-210.292 $\chi^2$/NDF:27.6/23

All: 14.427+/-156.523 $\chi^2$/NDF: 53.3/42

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: 490.871+/-0.185 $\chi^2$/NDF:254676.1/4

Right Out: 948.235+/-0.250 $\chi^2$/NDF: 415192.3/18

Left In: 497.441+/-0.224 $\chi^2$/NDF:244656.4/2

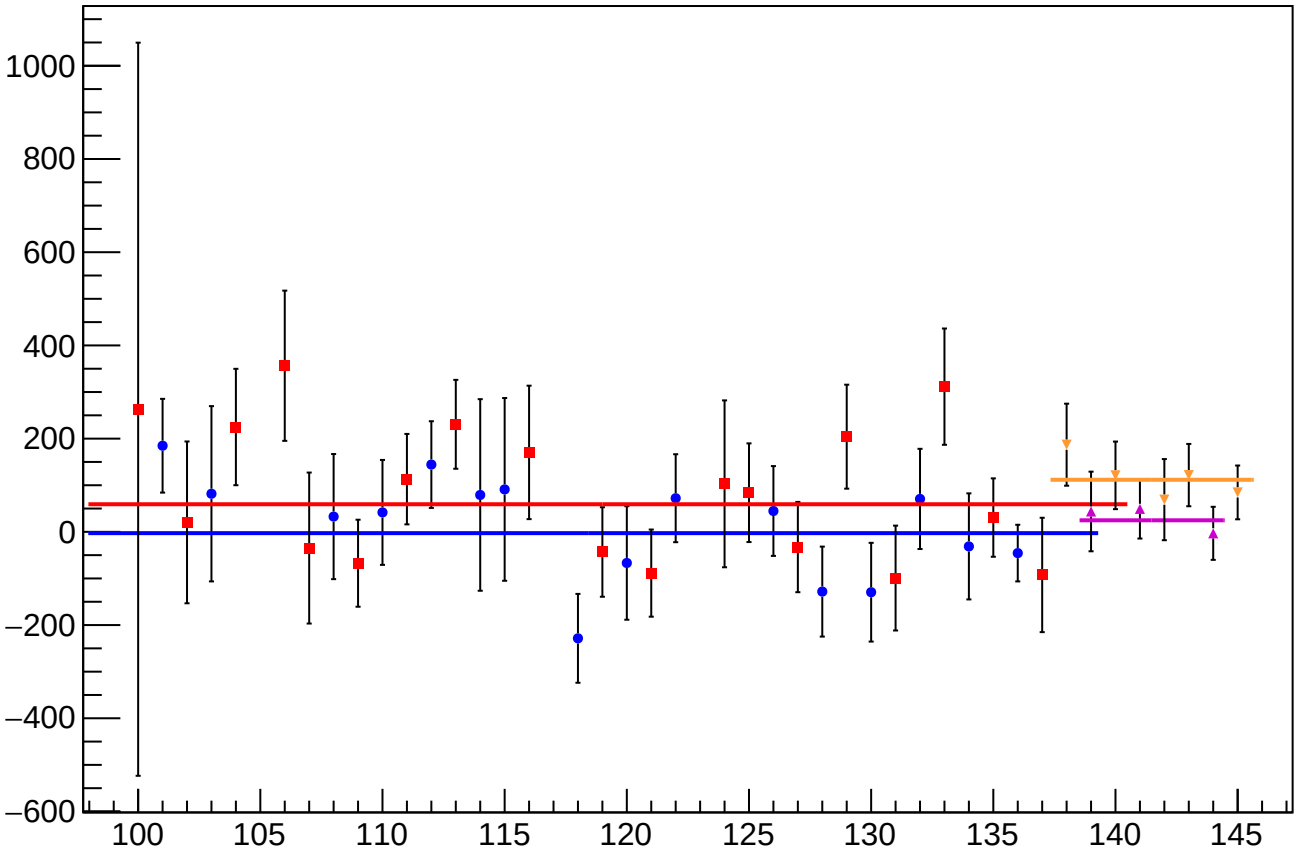
Left: 493.541+/-0.143 $\chi^2$/NDF: 499844.4/7

Right: 932.012+/-0.175 $\chi^2$/NDF: 932665.3/34

In: 686.420+/-0.166 $\chi^2$/NDF:2334556.1/18

Out: 653.137+/-0.149 $\chi^2$/NDF:2835484.0/23

All: 667.981+/-0.111 $\chi^2$/NDF: 5192383.2/42




Right In: -2.773+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 111.734+/-32.016 $\chi^2$/NDF:1.2/4

Right Out: 59.226+/-26.384 $\chi^2$/NDF: 25.7/18

Left In: 24.787+/-38.007 $\chi^2$/NDF:0.4/2

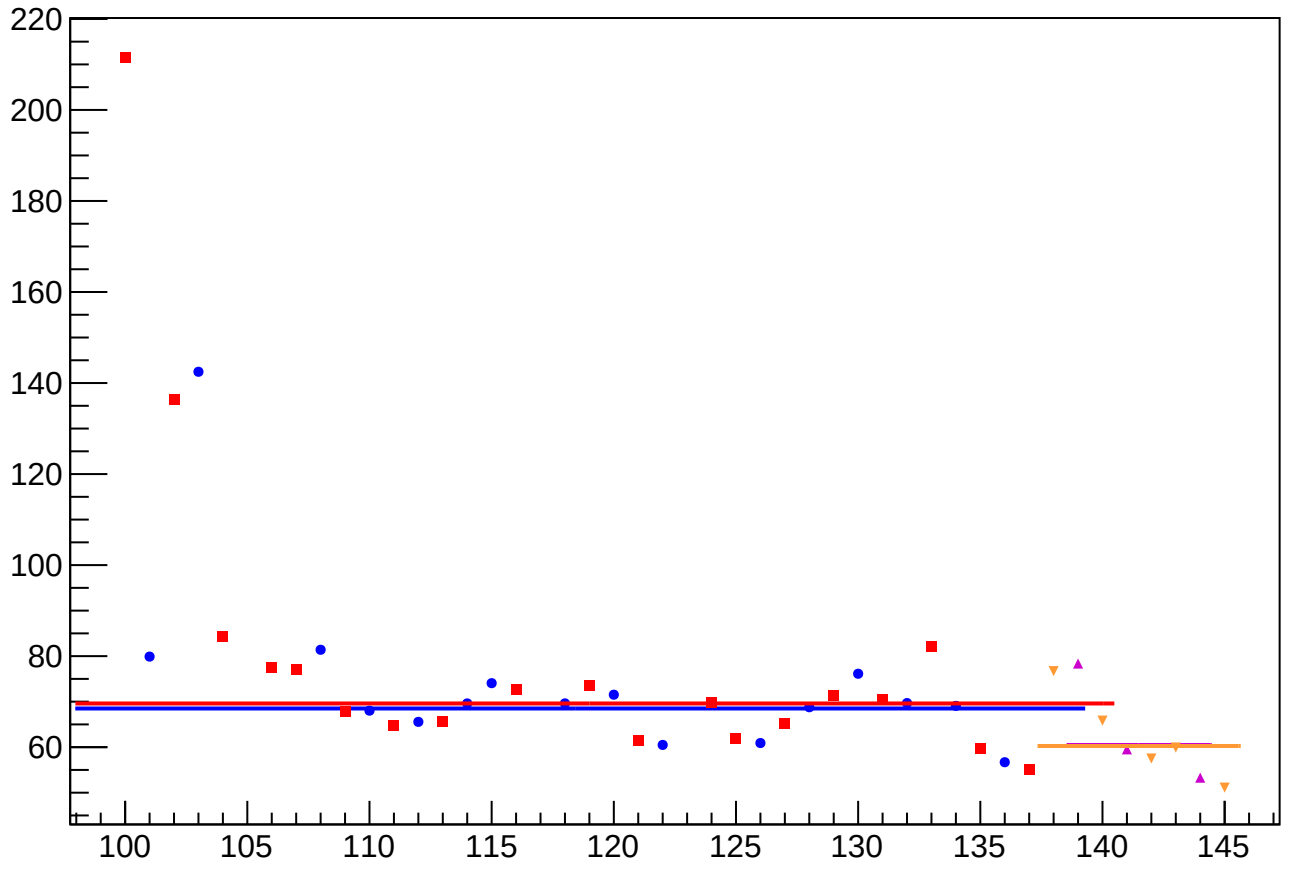
Left: 75.645+/-24.487 $\chi^2$/NDF: 4.7/7

Right: 28.026+/-18.595 $\chi^2$/NDF: 46.1/34

In: 6.111+/-21.579 $\chi^2$/NDF:18.5/18

Out: 80.462+/-20.361 $\chi^2$/NDF:28.5/23

All: 45.443+/-14.809 $\chi^2$/NDF: 53.3/42




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471868.0/15

Left Out: 60.258+/-0.023 $\chi^2$/NDF:133950.2/4

Right Out: 69.600+/-0.019 $\chi^2$/NDF: 519788.9/18

Left In: 60.481+/-0.027 $\chi^2$/NDF:120009.7/2

Left: 60.350+/-0.017 $\chi^2$/NDF: 254000.3/7

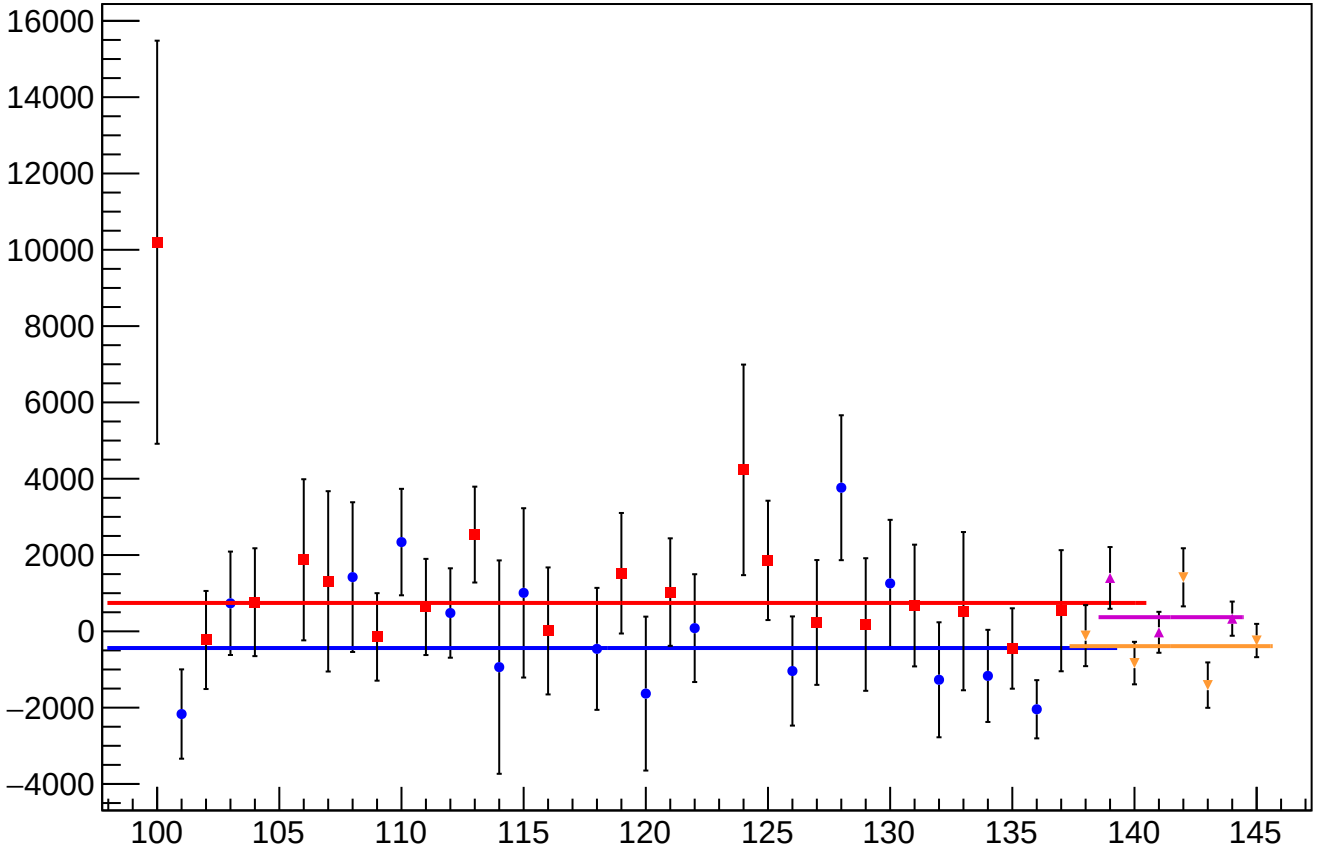
Right: 69.046+/-0.013 $\chi^2$/NDF: 993412.6/34

In: 65.914+/-0.015 $\chi^2$/NDF:652189.1/18

Out: 65.822+/-0.014 $\chi^2$/NDF:755169.4/23

All: 65.865+/-0.010 $\chi^2$/NDF: 1407377.9/42

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: -388.197+/-261.800 $\chi^2$/NDF:9.4/4

Right Out: 744.388+/-353.488 $\chi^2$/NDF: 10.9/18

Left In: 371.107+/-316.412 $\chi^2$/NDF:2.2/2

Left: -79.627+/-201.707 $\chi^2$/NDF: 15.0/7

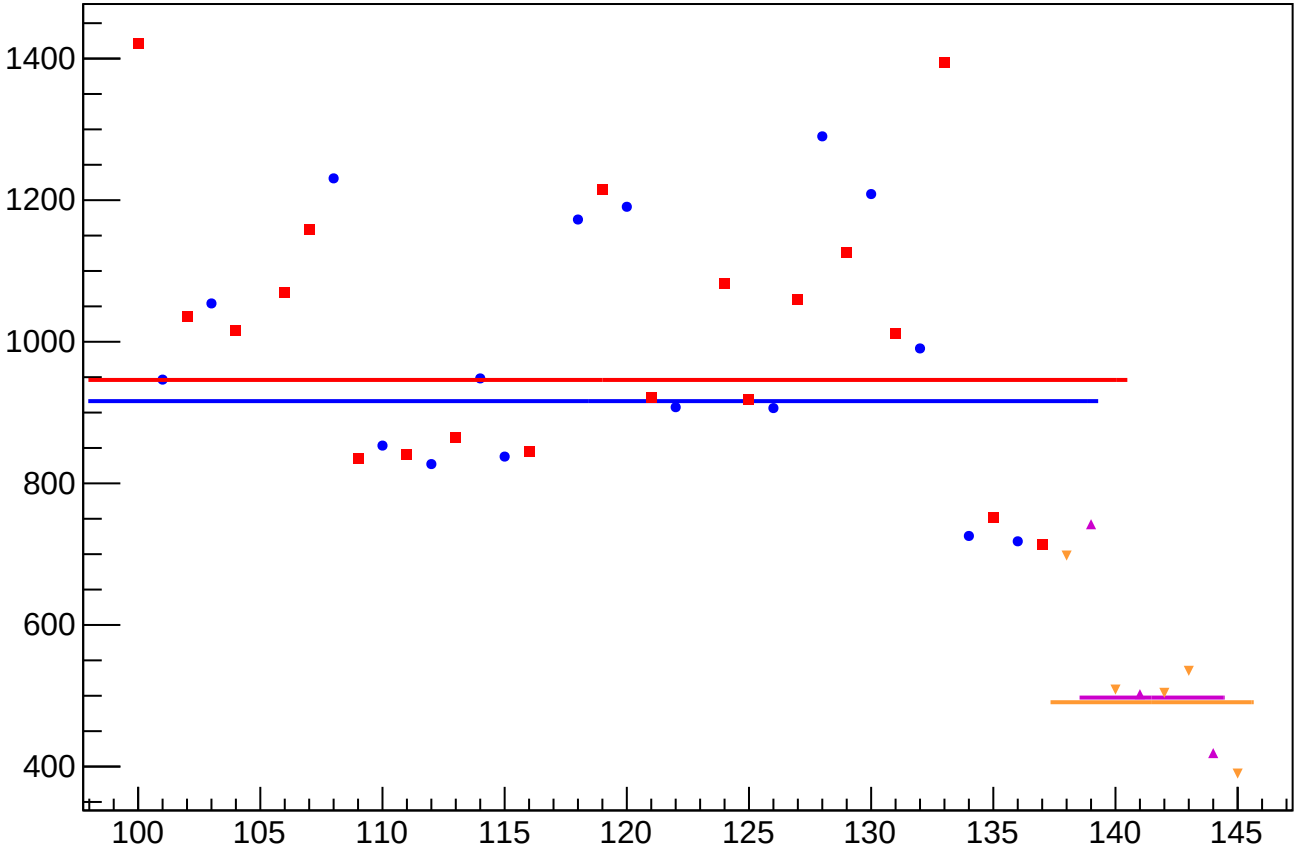
Right: 145.736+/-248.309 $\chi^2$/NDF: 37.1/34

In: 6.212+/-234.378 $\chi^2$/NDF:25.7/18

Out: 12.988+/-210.383 $\chi^2$/NDF:26.9/23

All: 9.964+/-156.561 $\chi^2$/NDF: 52.6/42

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: 490.870+/-0.185 $\chi^2$/NDF:254676.1/4

Right Out: 946.093+/-0.250 $\chi^2$/NDF: 405411.3/18

Left In: 497.442+/-0.224 $\chi^2$/NDF:244655.7/2

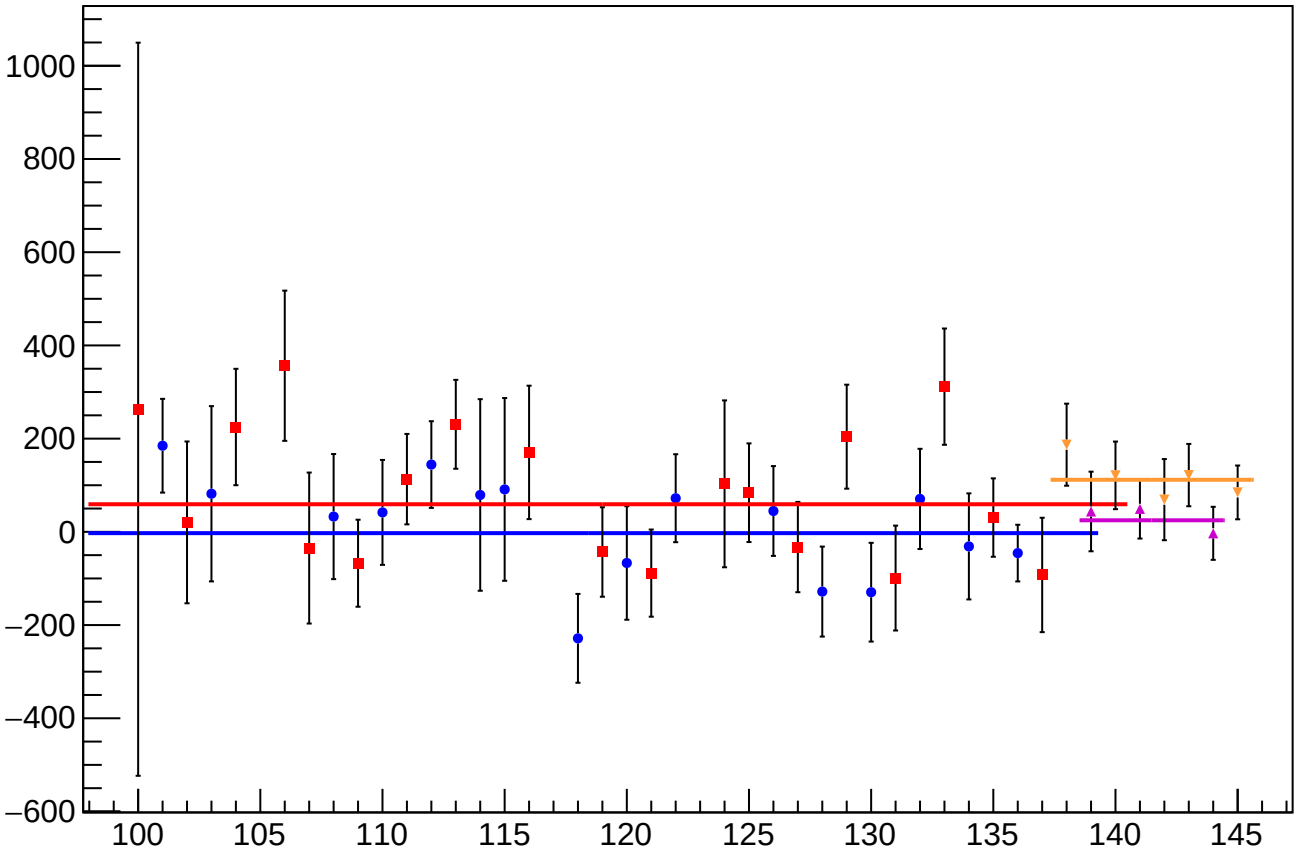
Left: 493.541+/-0.143 $\chi^2$/NDF: 499843.8/7

Right: 930.937+/-0.176 $\chi^2$/NDF: 921817.9/34

In: 686.420+/-0.166 $\chi^2$/NDF:2334594.6/18

Out: 652.119+/-0.149 $\chi^2$/NDF:2802049.9/23

All: 667.425+/-0.111 $\chi^2$/NDF: 5160367.1/42




Right In: -2.773+/-26.213 $\chi^2$/NDF: 17.7/15

Left Out: 111.734+/-32.016 $\chi^2$/NDF:1.2/4

Right Out: 59.226+/-26.384 $\chi^2$/NDF: 25.7/18

Left In: 24.787+/-38.007 $\chi^2$/NDF:0.4/2

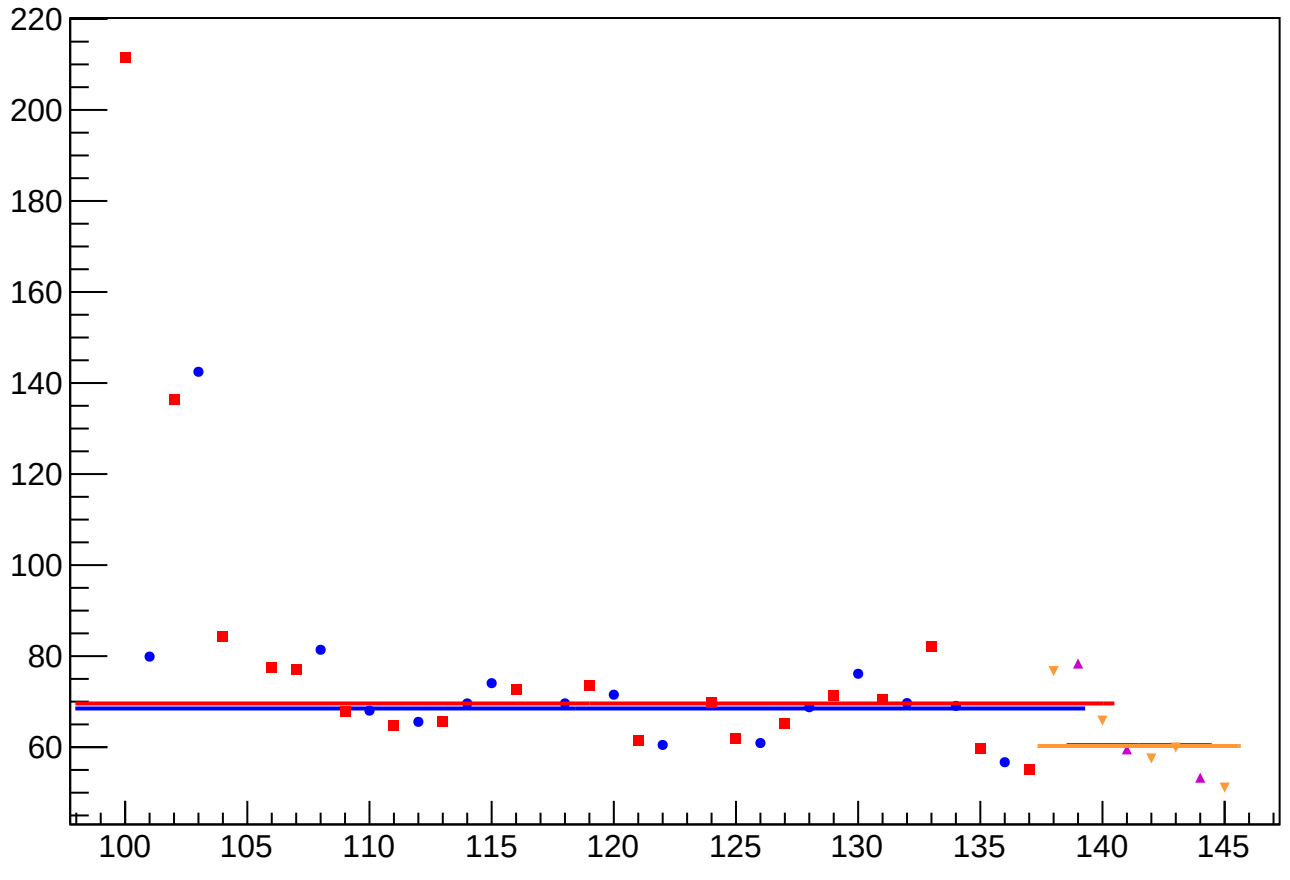
Left: 75.645+/-24.487 $\chi^2$/NDF: 4.7/7

Right: 28.026+/-18.595 $\chi^2$/NDF: 46.1/34

In: 6.111+/-21.579 $\chi^2$/NDF:18.5/18

Out: 80.462+/-20.361 $\chi^2$/NDF:28.5/23

All: 45.443+/-14.809 $\chi^2$/NDF: 53.3/42




Right In: 68.499+/-0.019 $\chi^2$/NDF: 471868.0/15

Left Out: 60.258+/-0.023 $\chi^2$/NDF:133950.2/4

Right Out: 69.600+/-0.019 $\chi^2$/NDF: 519788.9/18

Left In: 60.481+/-0.027 $\chi^2$/NDF:120009.7/2

Left: 60.350+/-0.017 $\chi^2$/NDF: 254000.3/7

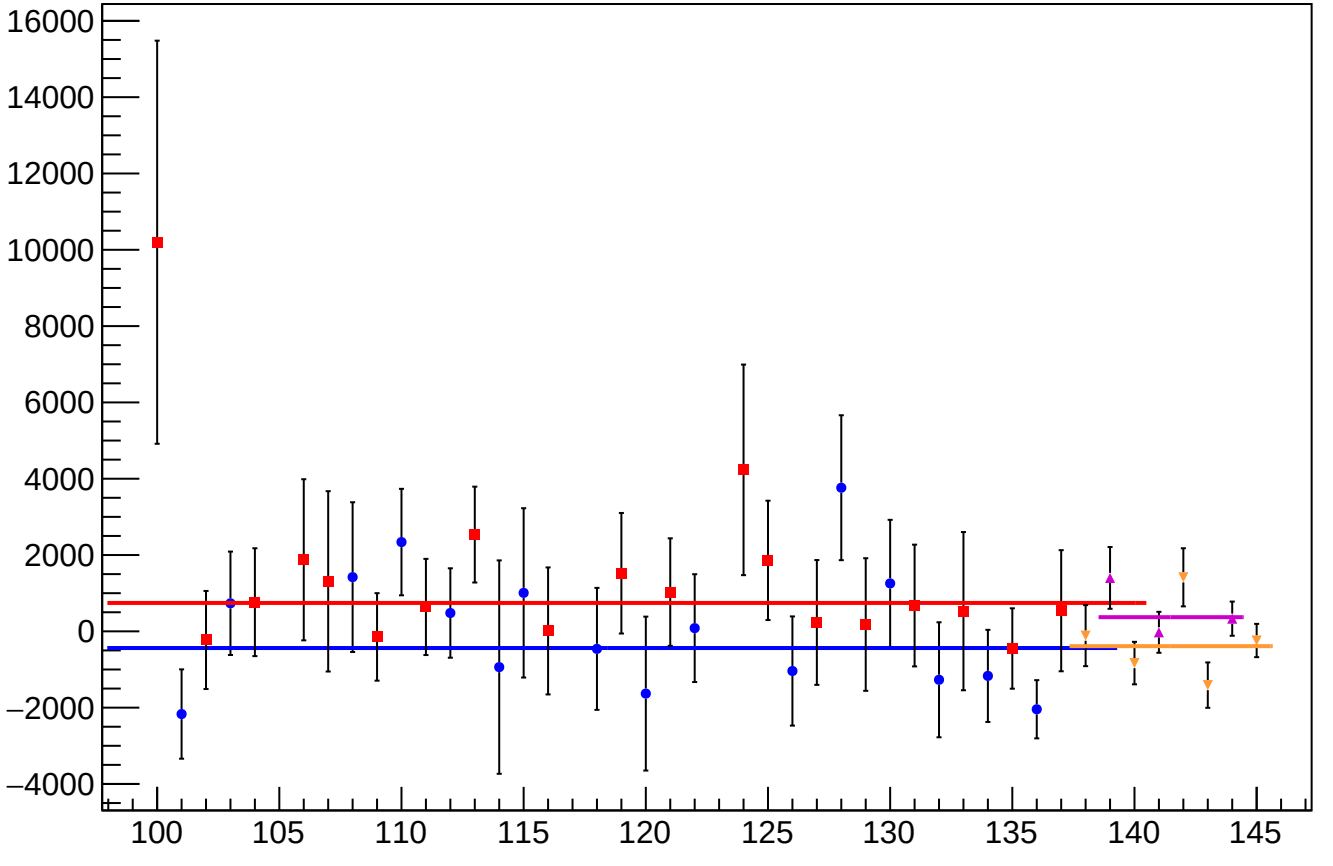
Right: 69.046+/-0.013 $\chi^2$/NDF: 993412.6/34

In: 65.914+/-0.015 $\chi^2$/NDF:652189.1/18

Out: 65.822+/-0.014 $\chi^2$/NDF:755169.4/23

All: 65.865+/-0.010 $\chi^2$/NDF: 1407377.9/42

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: -388.197+/-261.800 $\chi^2$/NDF:9.4/4

Right Out: 744.388+/-353.488 $\chi^2$/NDF: 10.9/18

Left In: 371.107+/-316.412 $\chi^2$/NDF:2.2/2

Left: -79.627+/-201.707 $\chi^2$/NDF: 15.0/7

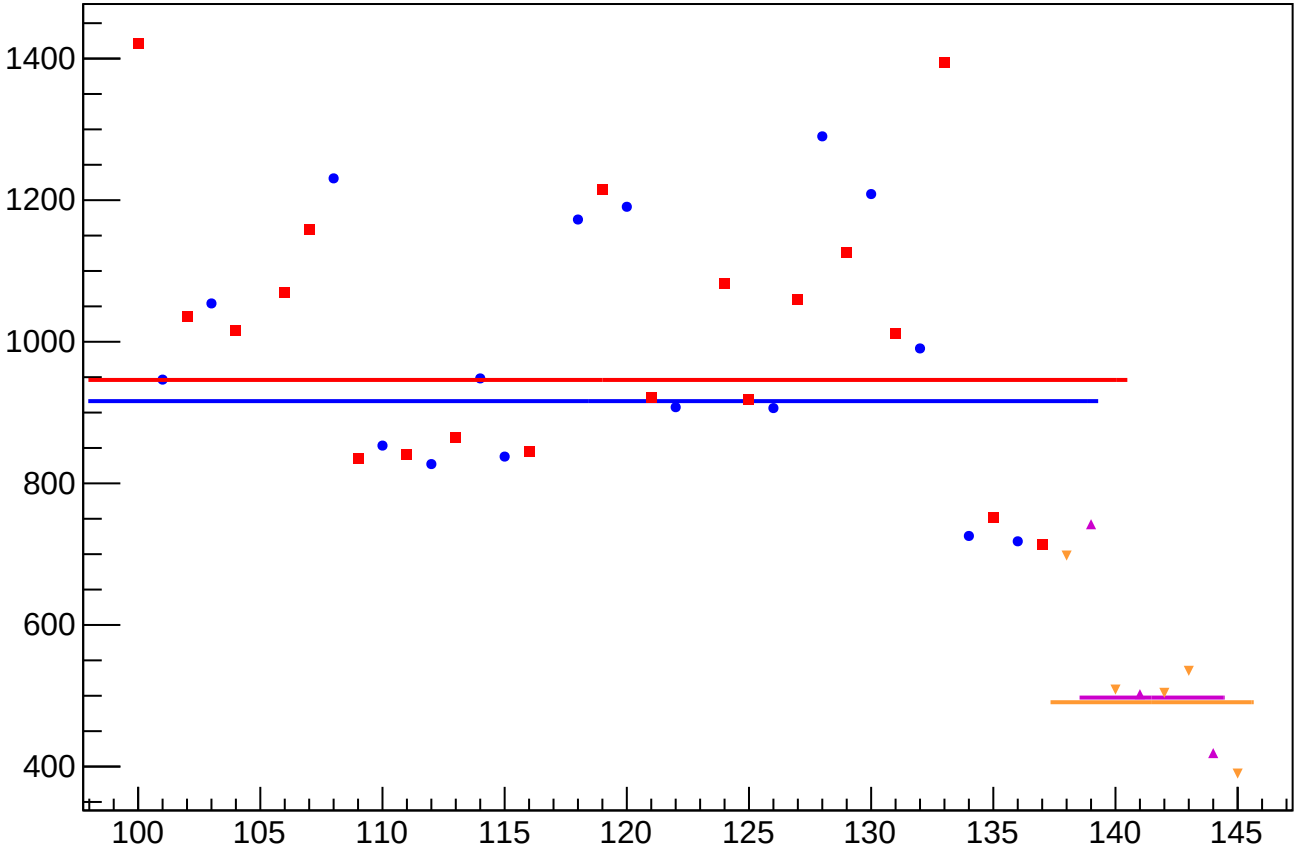
Right: 145.736+/-248.309 $\chi^2$/NDF: 37.1/34

In: 6.212+/-234.378 $\chi^2$/NDF:25.7/18

Out: 12.988+/-210.383 $\chi^2$/NDF:26.9/23

All: 9.964+/-156.561 $\chi^2$/NDF: 52.6/42

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: 490.870+/-0.185 $\chi^2$/NDF:254676.1/4

Right Out: 946.093+/-0.250 $\chi^2$/NDF: 405411.3/18

Left In: 497.442+/-0.224 $\chi^2$/NDF:244655.7/2

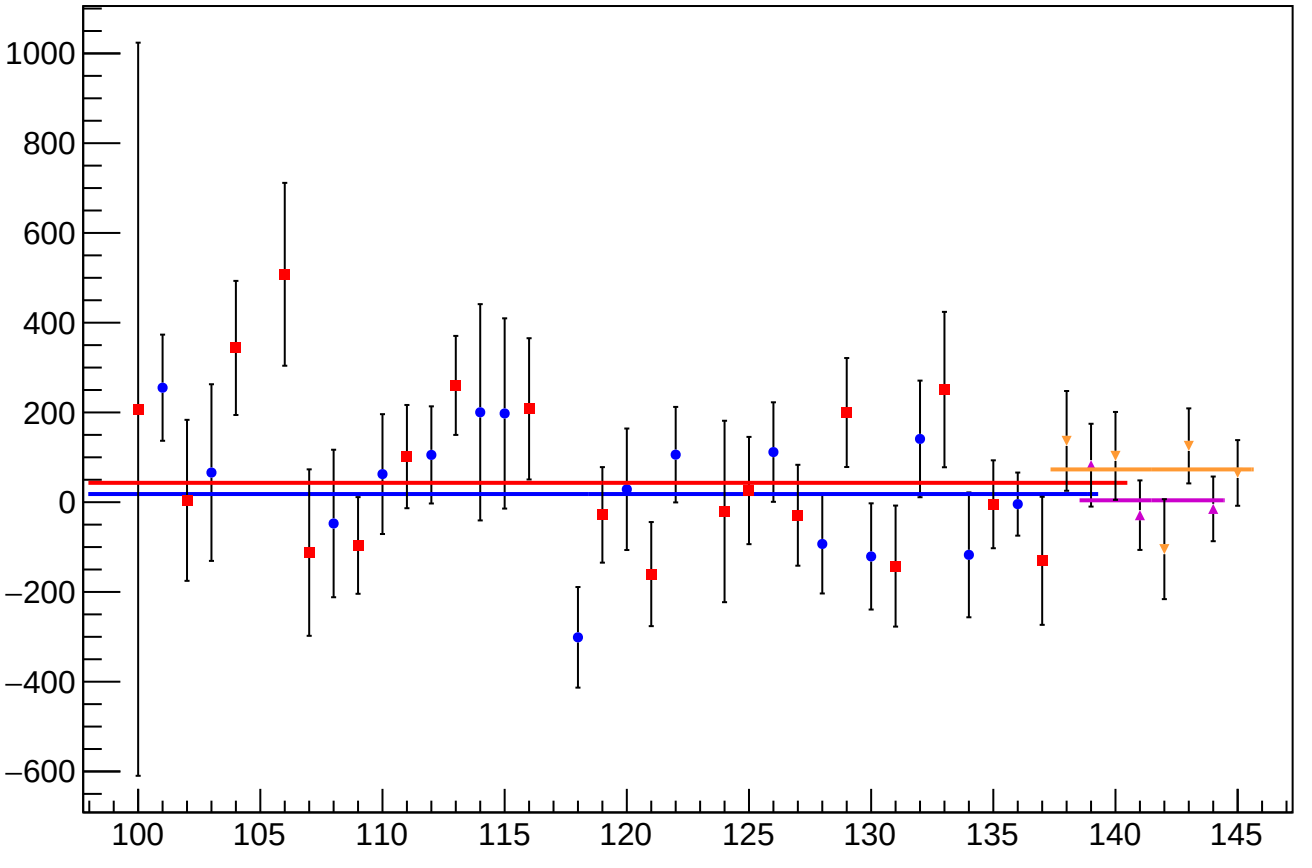
Left: 493.541+/-0.143 $\chi^2$/NDF: 499843.8/7

Right: 930.937+/-0.176 $\chi^2$/NDF: 921817.9/34

In: 686.420+/-0.166 $\chi^2$/NDF:2334594.6/18

Out: 652.119+/-0.149 $\chi^2$/NDF:2802049.9/23

All: 667.425+/-0.111 $\chi^2$/NDF: 5160367.1/42




Right In: 18.175+/-30.346 $\chi^2$/NDF: 20.1/15

Left Out: 73.035+/-40.972 $\chi^2$/NDF:3.4/4

Right Out: 43.146+/-30.707 $\chi^2$/NDF: 27.7/18

Left In: 4.206+/-45.800 $\chi^2$/NDF:1.0/2

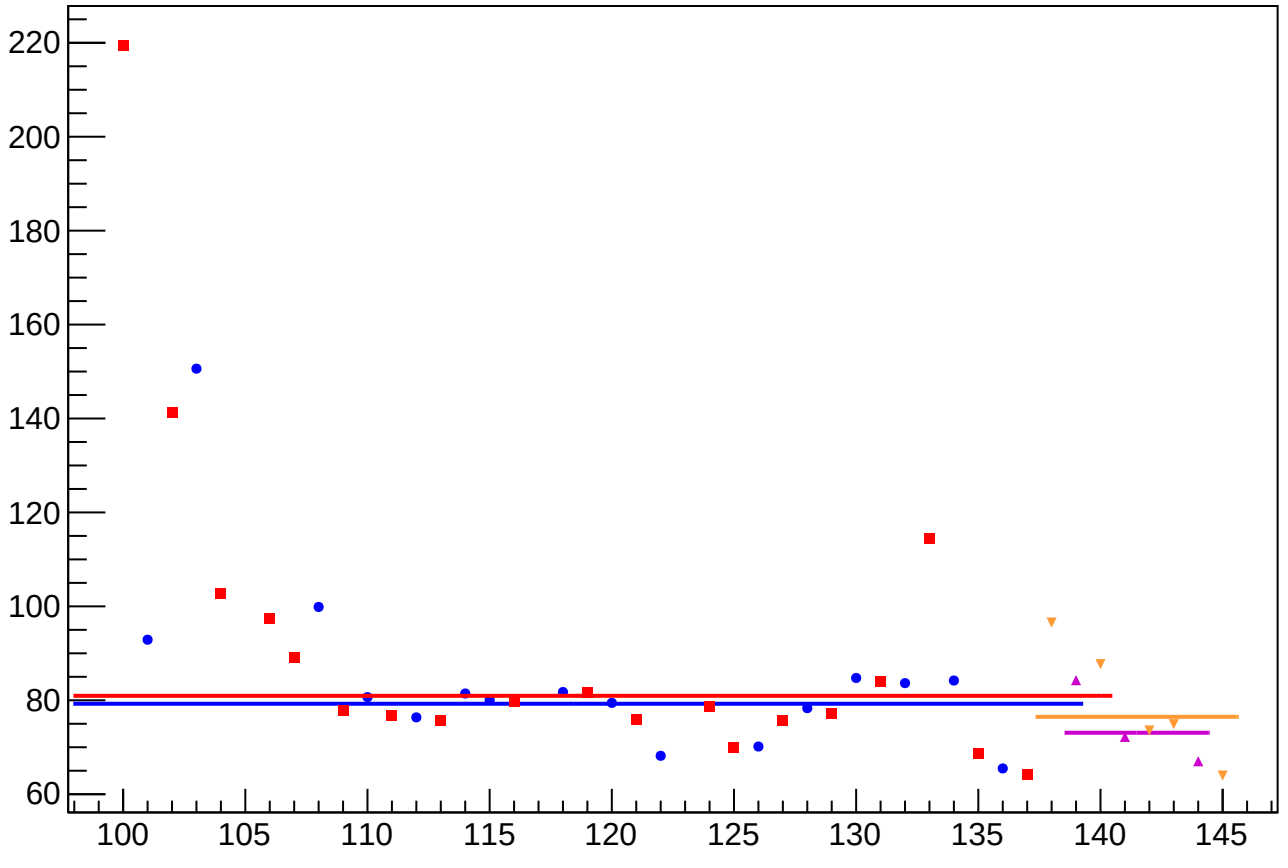
Left: 42.439+/-30.537 $\chi^2$/NDF: 5.6/7

Right: 30.513+/-21.585 $\chi^2$/NDF: 48.2/34

In: 13.913+/-25.297 $\chi^2$/NDF:21.2/18

Out: 53.896+/-24.572 $\chi^2$/NDF:31.4/23

All: 34.486+/-17.626 $\chi^2$/NDF: 53.9/42




Right In: 79.263+/-0.021 $\chi^2$/NDF: 444951.1/15

Left Out: 76.480+/-0.029 $\chi^2$/NDF:151917.2/4

Right Out: 80.958+/-0.022 $\chi^2$/NDF: 514182.4/18

Left In: 73.087+/-0.032 $\chi^2$/NDF:43858.5/2

Left: 74.972+/-0.022 $\chi^2$/NDF: 201875.4/7

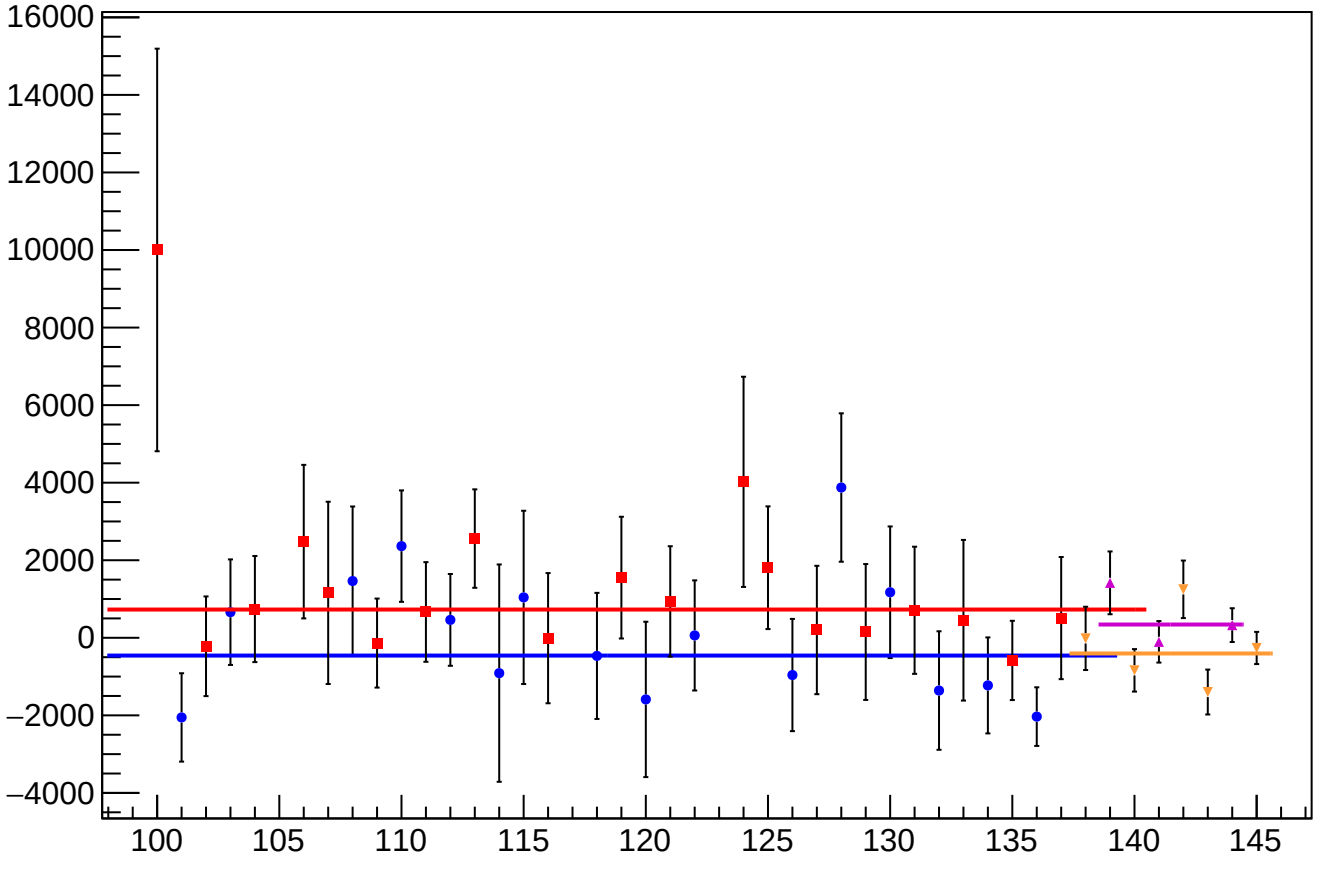
Right: 80.101+/-0.015 $\chi^2$/NDF: 962217.4/34

In: 77.379+/-0.018 $\chi^2$/NDF:514084.4/18

Out: 79.348+/-0.017 $\chi^2$/NDF:681396.2/23

All: 78.392+/-0.012 $\chi^2$/NDF: 1201714.9/42

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: -404.418+/-254.466 $\chi^2$/NDF:8.9/4

Right Out: 728.750+/-352.574 $\chi^2$/NDF: 11.5/18

Left In: 342.436+/-311.725 $\chi^2$/NDF:2.5/2

Left: -105.756+/-197.126 $\chi^2$/NDF: 14.8/7

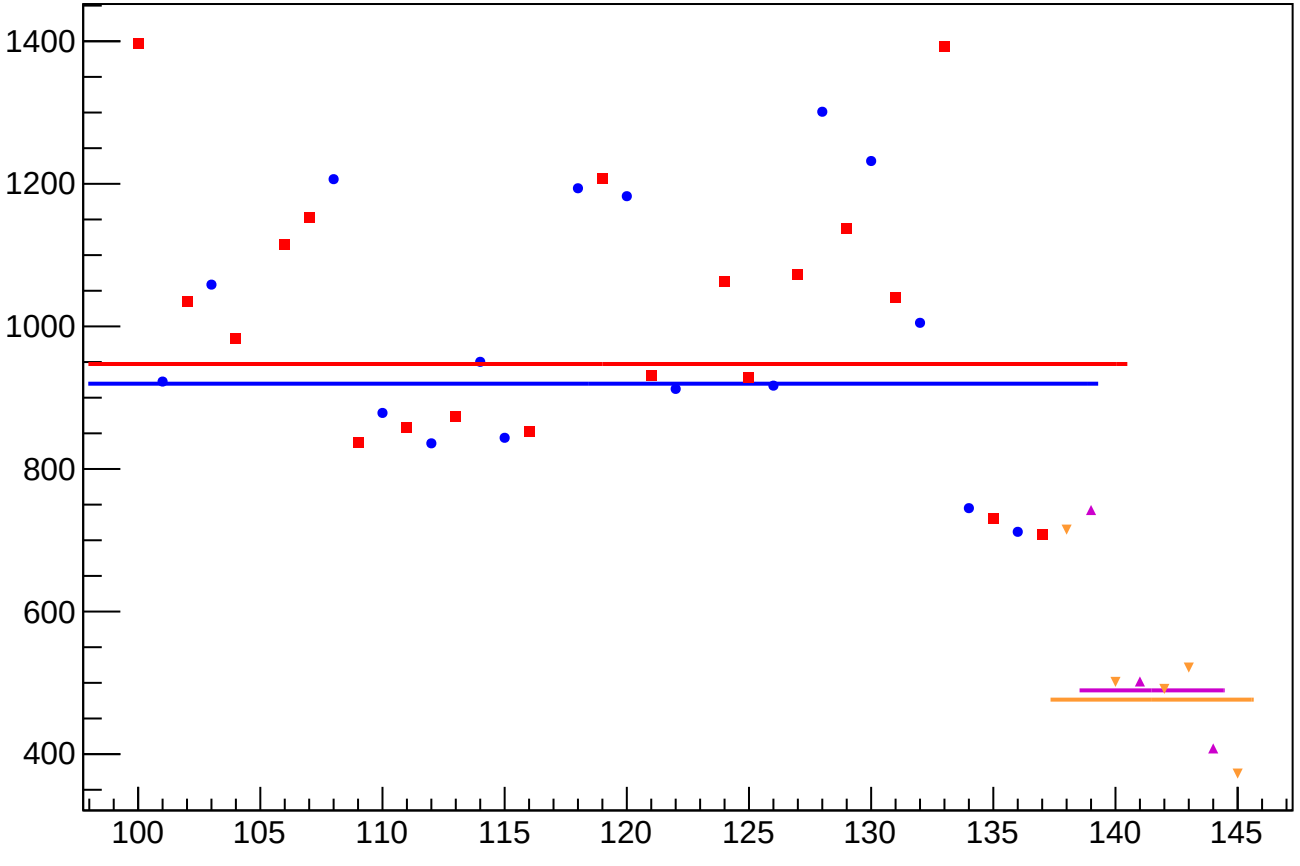
Right: 131.100+/-248.419 $\chi^2$/NDF: 37.5/34

In: -11.601+/-232.805 $\chi^2$/NDF:25.7/18

Out: -16.312+/-206.337 $\chi^2$/NDF:27.2/23

All: -14.240+/-154.416 $\chi^2$/NDF: 52.9/42

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: 476.454+/-0.180 $\chi^2$/NDF:312812.4/4

Right Out: 947.272+/-0.249 $\chi^2$/NDF: 425563.8/18

Left In: 489.447+/-0.220 $\chi^2$/NDF:266354.8/2

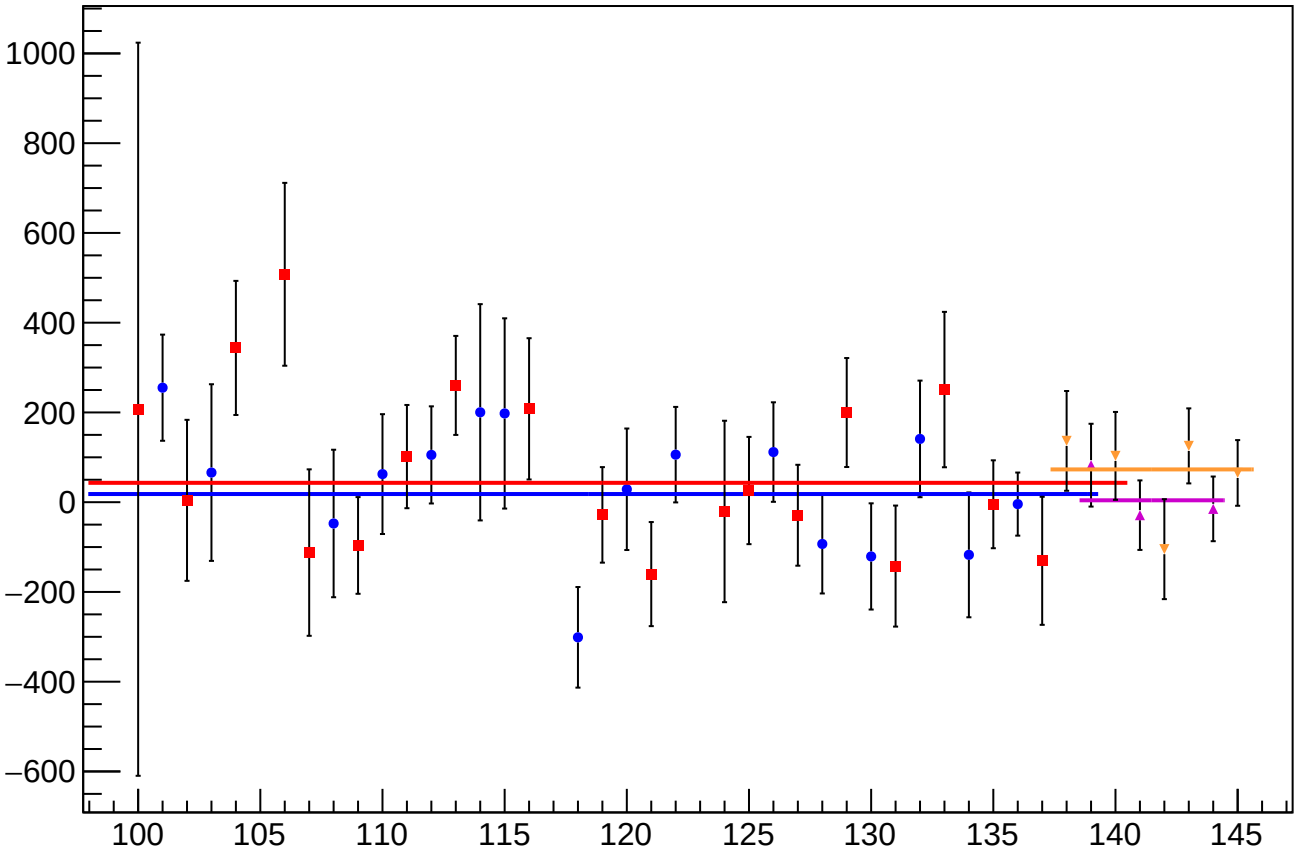
Left: 481.650+/-0.139 $\chi^2$/NDF: 581252.1/7

Right: 933.357+/-0.176 $\chi^2$/NDF: 947194.3/34

In: 679.697+/-0.165 $\chi^2$/NDF:2466312.8/18

Out: 637.708+/-0.146 $\chi^2$/NDF:3083326.3/23

All: 656.181+/-0.109 $\chi^2$/NDF: 5586077.1/42




Right In: 18.175+/-30.346 $\chi^2$/NDF: 20.1/15

Left Out: 73.035+/-40.972 $\chi^2$/NDF:3.4/4

Right Out: 43.144+/-30.707 $\chi^2$/NDF: 27.7/18

Left In: 4.207+/-45.800 $\chi^2$/NDF:1.0/2

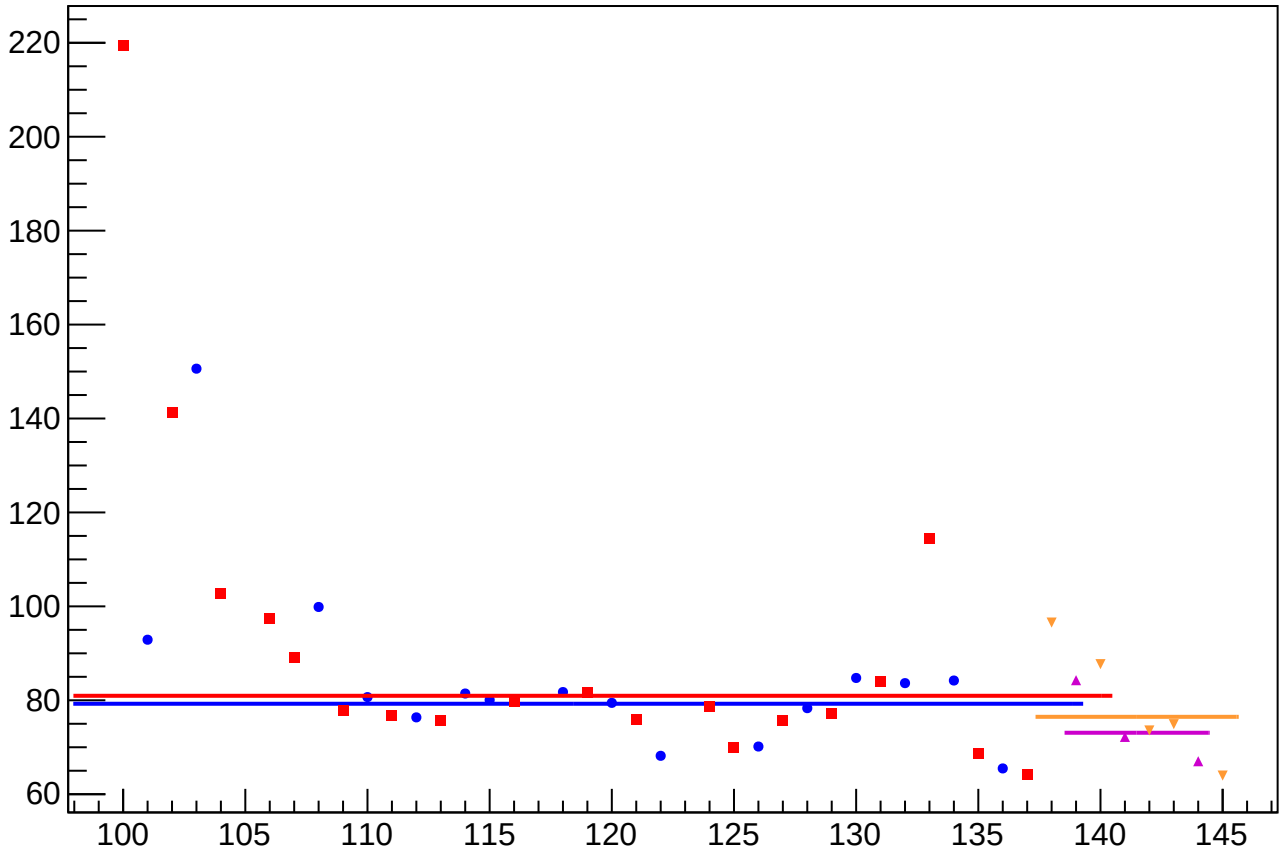
Left: 42.438+/-30.537 $\chi^2$/NDF: 5.6/7

Right: 30.512+/-21.584 $\chi^2$/NDF: 48.2/34

In: 13.914+/-25.297 $\chi^2$/NDF:21.2/18

Out: 53.894+/-24.572 $\chi^2$/NDF:31.4/23

All: 34.485+/-17.626 $\chi^2$/NDF: 53.9/42




Right In: 79.263+/-0.021 $\chi^2$/NDF: 444948.4/15

Left Out: 76.481+/-0.029 $\chi^2$/NDF:151908.7/4

Right Out: 80.958+/-0.022 $\chi^2$/NDF: 514191.2/18

Left In: 73.087+/-0.032 $\chi^2$/NDF:43856.6/2

Left: 74.972+/-0.022 $\chi^2$/NDF: 201865.4/7

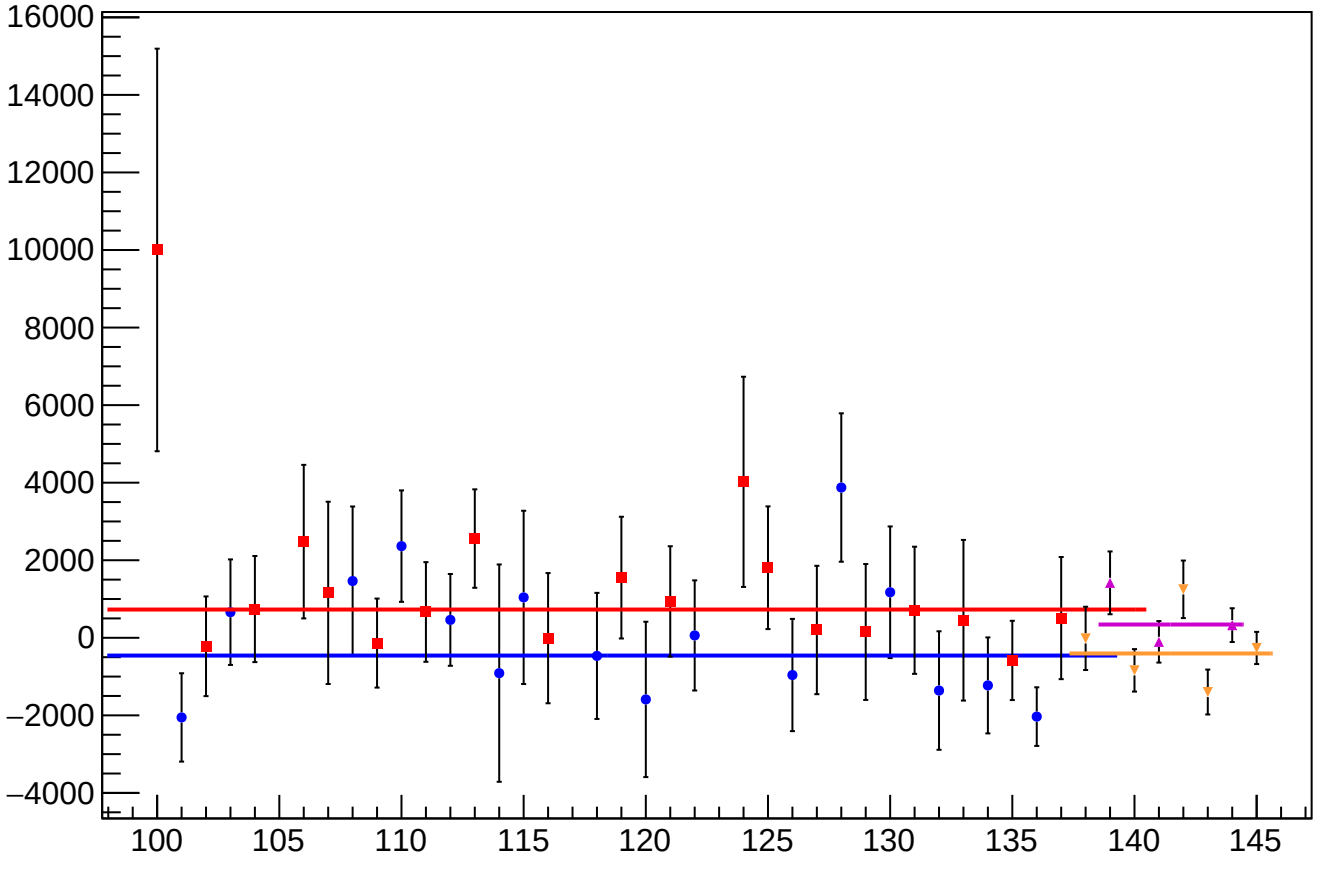
Right: 80.100+/-0.015 $\chi^2$/NDF: 962223.7/34

In: 77.379+/-0.018 $\chi^2$/NDF:514075.2/18

Out: 79.348+/-0.017 $\chi^2$/NDF:681391.9/23

All: 78.392+/-0.012 $\chi^2$/NDF: 1201702.1/42

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: -404.420+/-254.465 $\chi^2$/NDF:8.9/4

Right Out: 728.749+/-352.573 $\chi^2$/NDF: 11.5/18

Left In: 342.437+/-311.725 $\chi^2$/NDF:2.5/2

Left: -105.758+/-197.125 $\chi^2$/NDF: 14.8/7

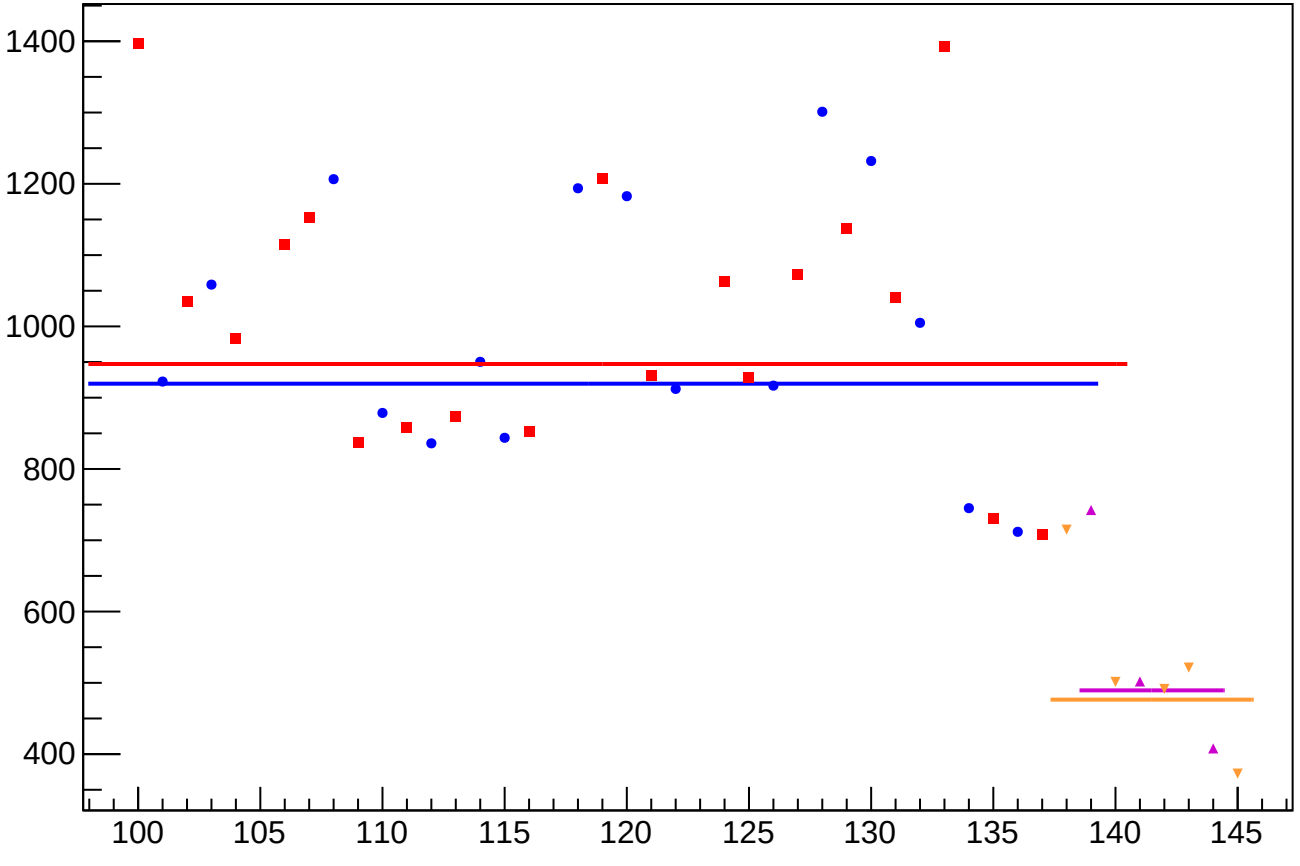
Right: 131.102+/-248.419 $\chi^2$/NDF: 37.5/34

In: -11.600+/-232.805 $\chi^2$/NDF:25.7/18

Out: -16.314+/-206.337 $\chi^2$/NDF:27.2/23

All: -14.240+/-154.416 $\chi^2$/NDF: 52.9/42

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: 476.453+/-0.180 $\chi^2$/NDF:312813.7/4

Right Out: 947.270+/-0.249 $\chi^2$/NDF: 425565.2/18

Left In: 489.446+/-0.220 $\chi^2$/NDF:266354.3/2

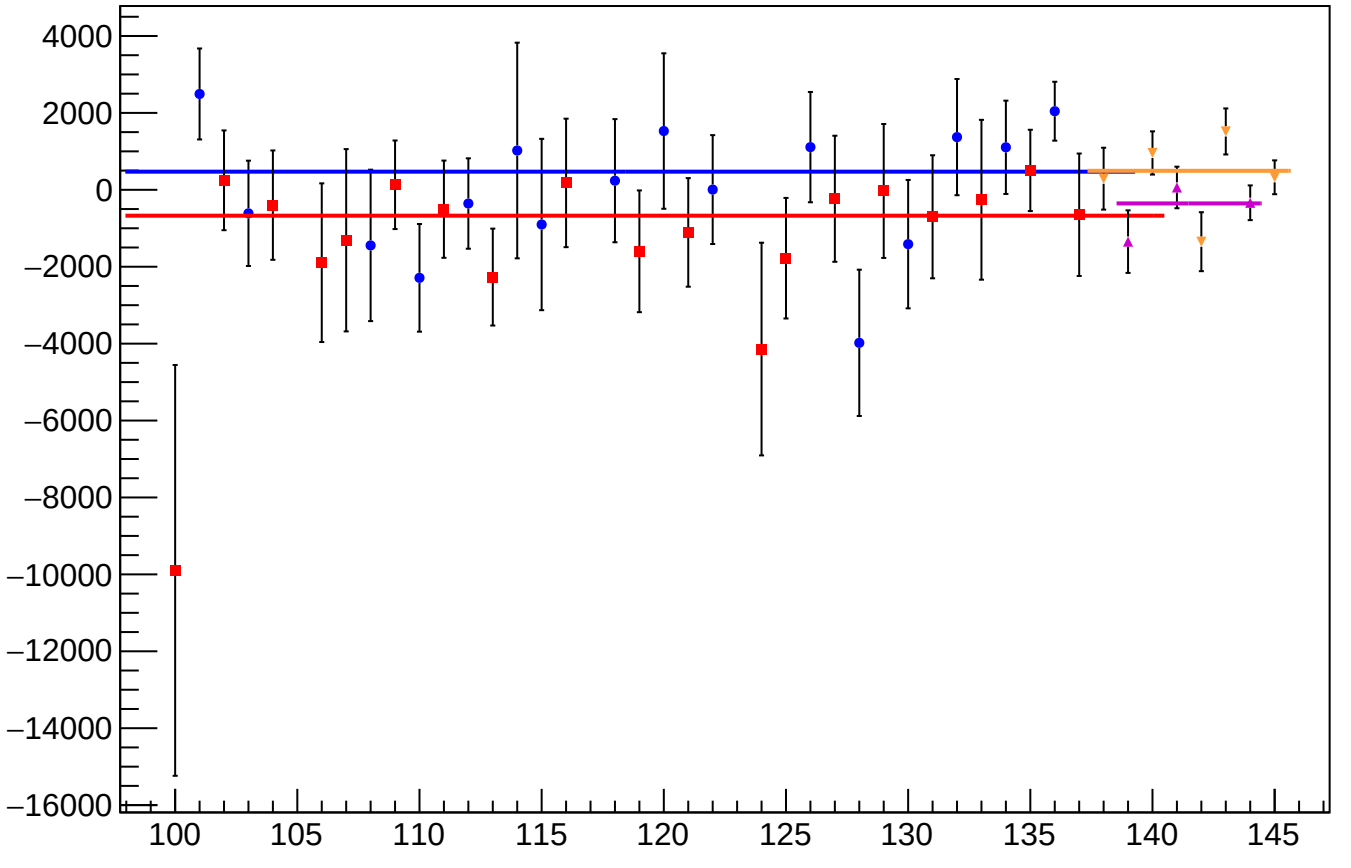
Left: 481.649+/-0.139 $\chi^2$/NDF: 581252.9/7

Right: 933.355+/-0.176 $\chi^2$/NDF: 947195.7/34

In: 679.696+/-0.165 $\chi^2$/NDF:2466309.1/18

Out: 637.706+/-0.146 $\chi^2$/NDF:3083327.6/23

All: 656.180+/-0.109 $\chi^2$/NDF: 5586075.4/42




Right In: 472.014+/-350.376 $\chi^2$/NDF: 21.5/15

Left Out: 494.517+/-263.863 $\chi^2$/NDF:9.6/4

Right Out: -672.537+/-354.512 $\chi^2$/NDF: 10.3/18

Left In: -353.399+/-318.779 $\chi^2$/NDF:2.1/2

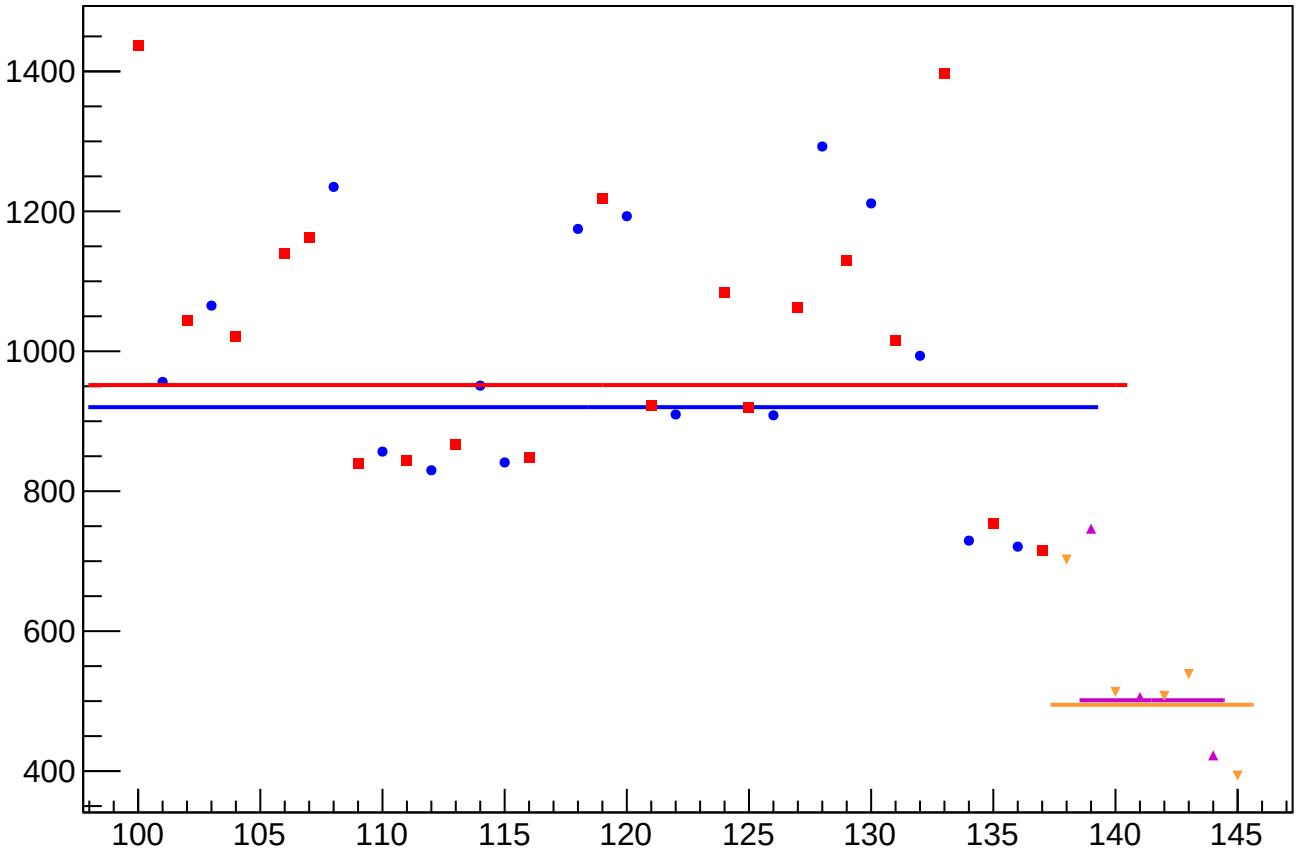
Left: 149.774+/-203.264 $\chi^2$/NDF: 15.9/7

Right: -93.545+/-249.203 $\chi^2$/NDF: 37.1/34

In: 20.420+/-235.792 $\chi^2$/NDF:26.6/18

Out: 78.472+/-211.668 $\chi^2$/NDF:26.9/23

All: 52.566+/-157.513 $\chi^2$/NDF: 53.5/42




Right In: 920.125+/-0.248 $\chi^2$/NDF: 508678.6/15

Left Out: 494.812+/-0.187 $\chi^2$/NDF:252124.1/4

Right Out: 951.726+/-0.251 $\chi^2$/NDF: 416116.3/18

Left In: 501.280+/-0.225 $\chi^2$/NDF:242636.6/2

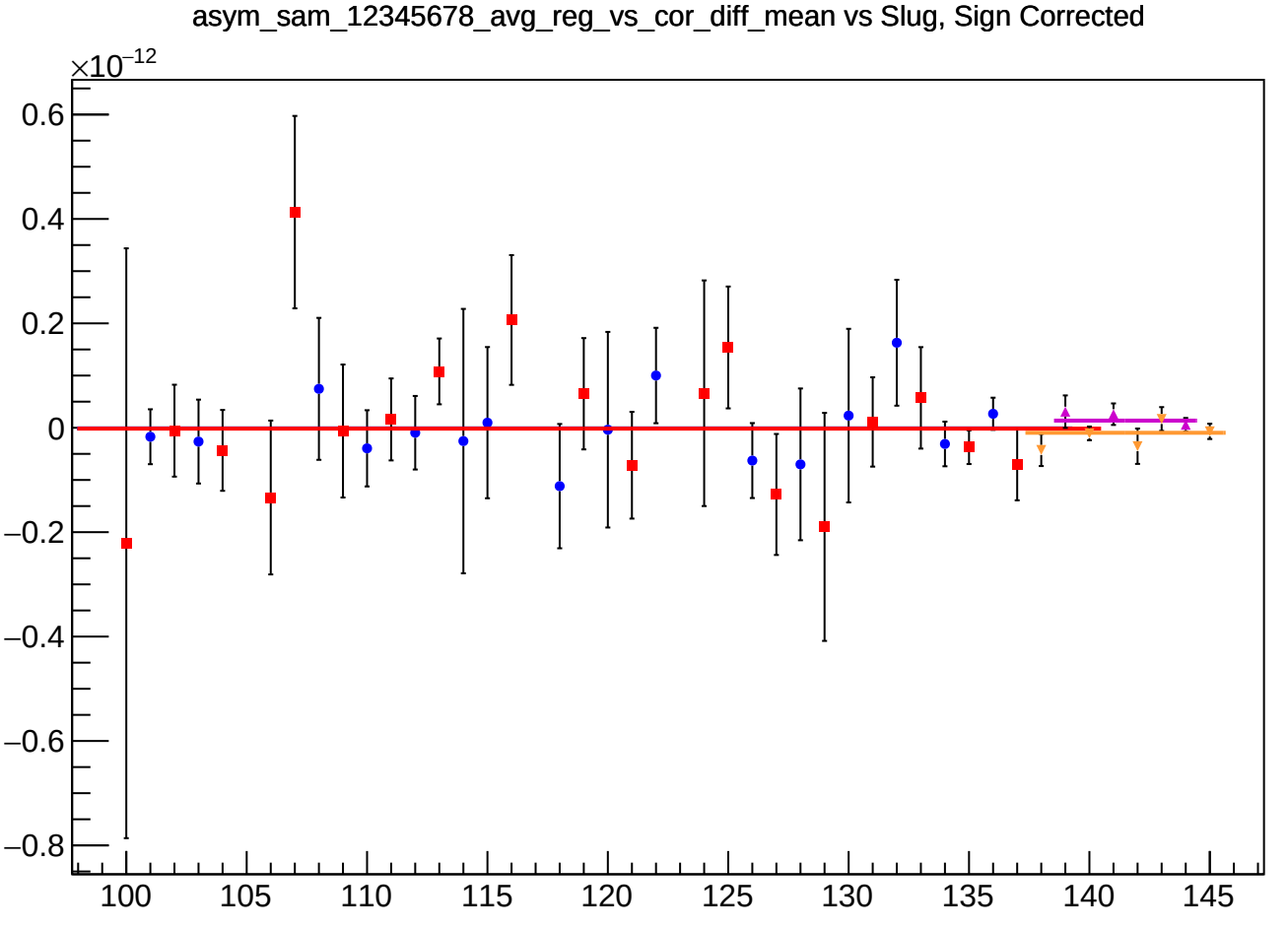
Left: 497.442+/-0.144 $\chi^2$/NDF: 495249.3/7

Right: 935.740+/-0.176 $\chi^2$/NDF: 932834.0/34

In: 690.970+/-0.167 $\chi^2$/NDF:2314989.5/18

Out: 657.698+/-0.150 $\chi^2$/NDF:2806156.3/23

All: 672.545+/-0.111 $\chi^2$/NDF: 5143196.7/42




Right In: -0.000+/-0.000 $\chi^2$/NDF: 7.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:3.1/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.4/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.0/2

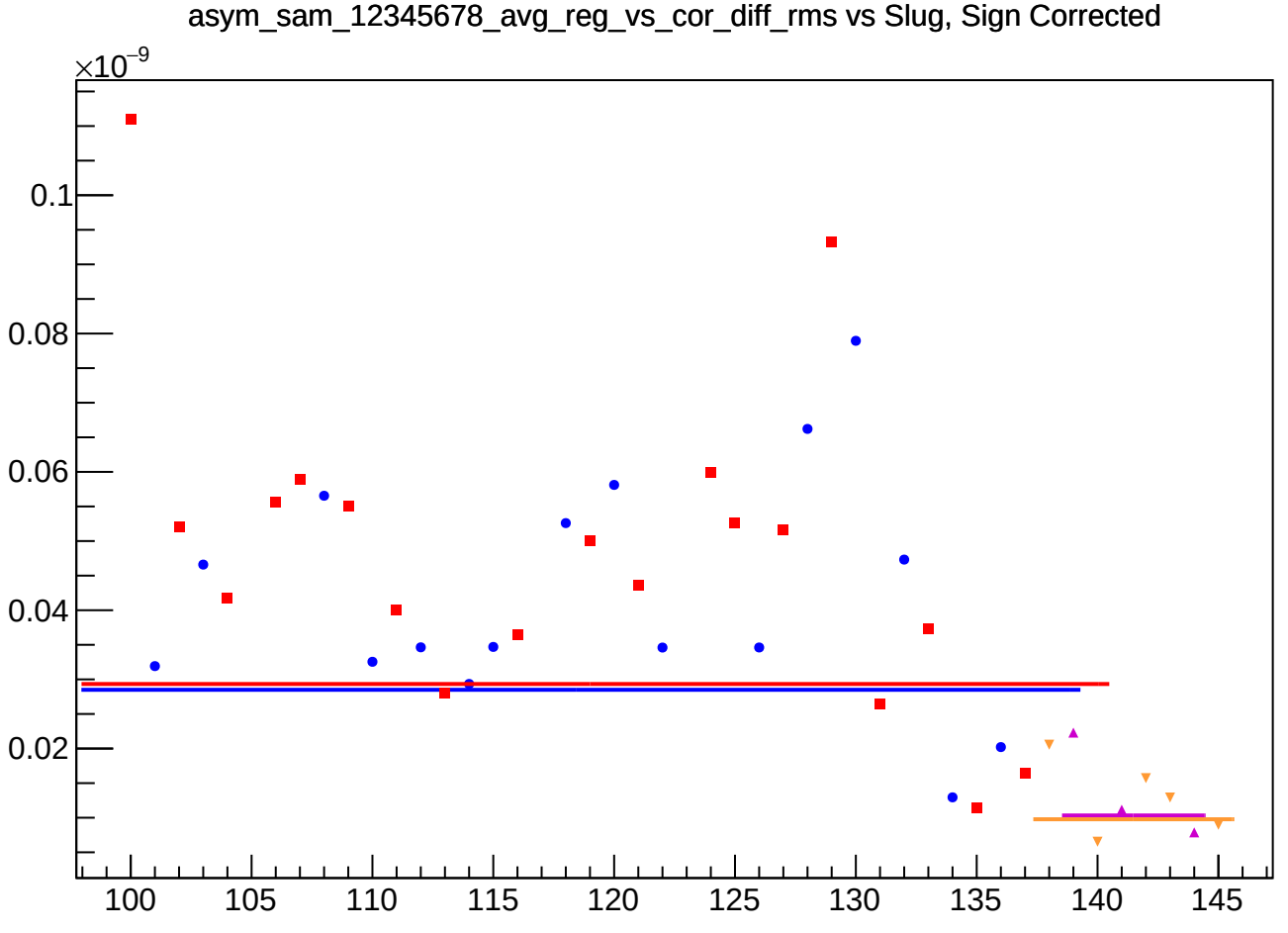
Left: -0.000+/-0.000 $\chi^2$/NDF: 7.2/7

Right: -0.000+/-0.000 $\chi^2$/NDF: 26.5/34

In: 0.000+/-0.000 $\chi^2$/NDF:8.6/18

Out: -0.000+/-0.000 $\chi^2$/NDF:22.7/23

All: -0.000+/-0.000 $\chi^2$/NDF: 33.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1152293.4/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:473498.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 1645968.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:370793.0/2

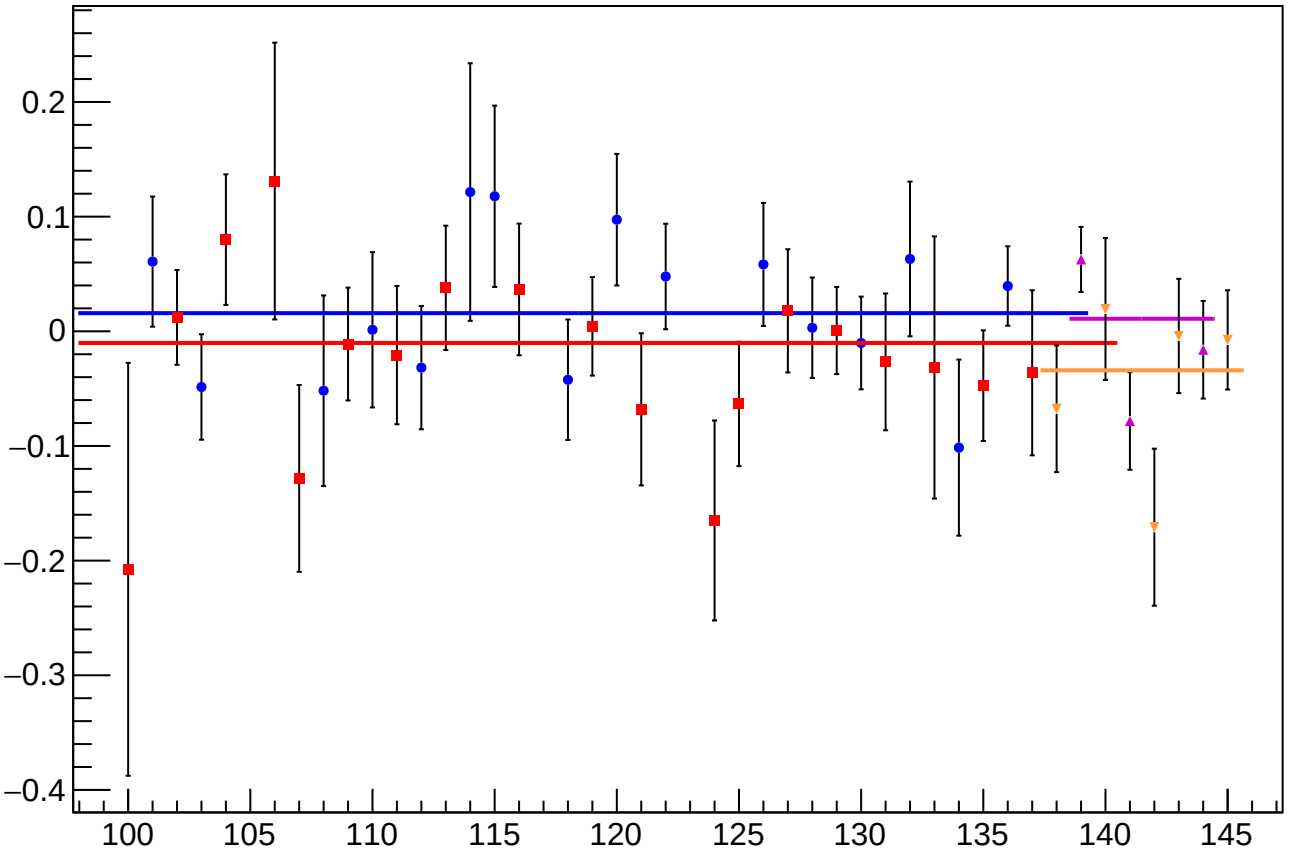
Left: 0.000+/-0.000 $\chi^2$/NDF: 847705.3/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 2800314.7/34

In: 0.000+/-0.000 $\chi^2$/NDF:3088769.5/18

Out: 0.000+/-0.000 $\chi^2$/NDF:3855435.1/23

All: 0.000+/-0.000 $\chi^2$/NDF: 7008055.4/42




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: -0.034+/-0.024 $\chi^2$/NDF:5.8/4

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.011+/-0.021 $\chi^2$/NDF:8.1/2

Left: -0.008+/-0.016 $\chi^2$/NDF: 16.0/7

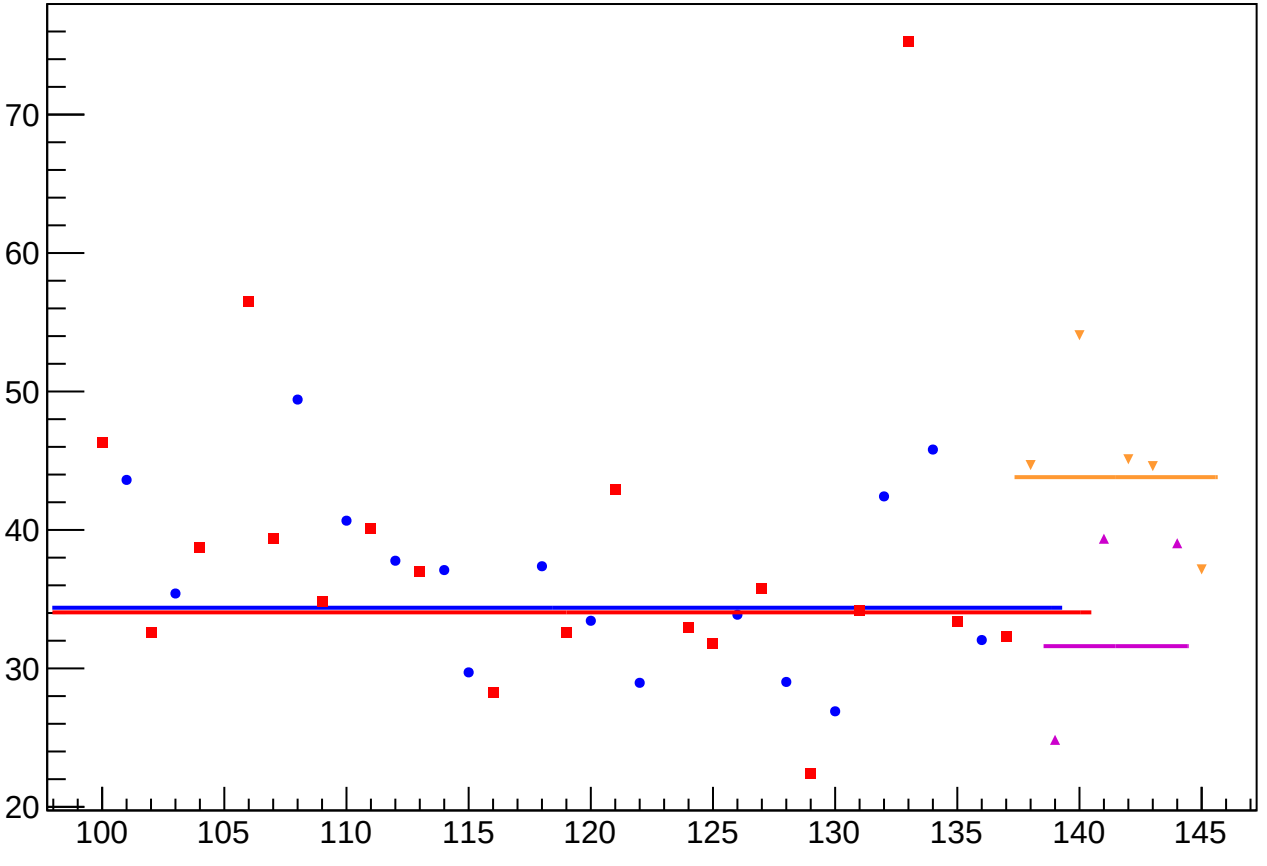
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.014+/-0.011 $\chi^2$/NDF:22.9/18

Out: -0.016+/-0.012 $\chi^2$/NDF:21.7/23

All: -0.000+/-0.008 $\chi^2$/NDF: 48.1/42

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: 43.813+/-0.017 $\chi^2$/NDF:103813.6/4

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642697.3/18

Left In: 31.608+/-0.015 $\chi^2$/NDF:241028.5/2

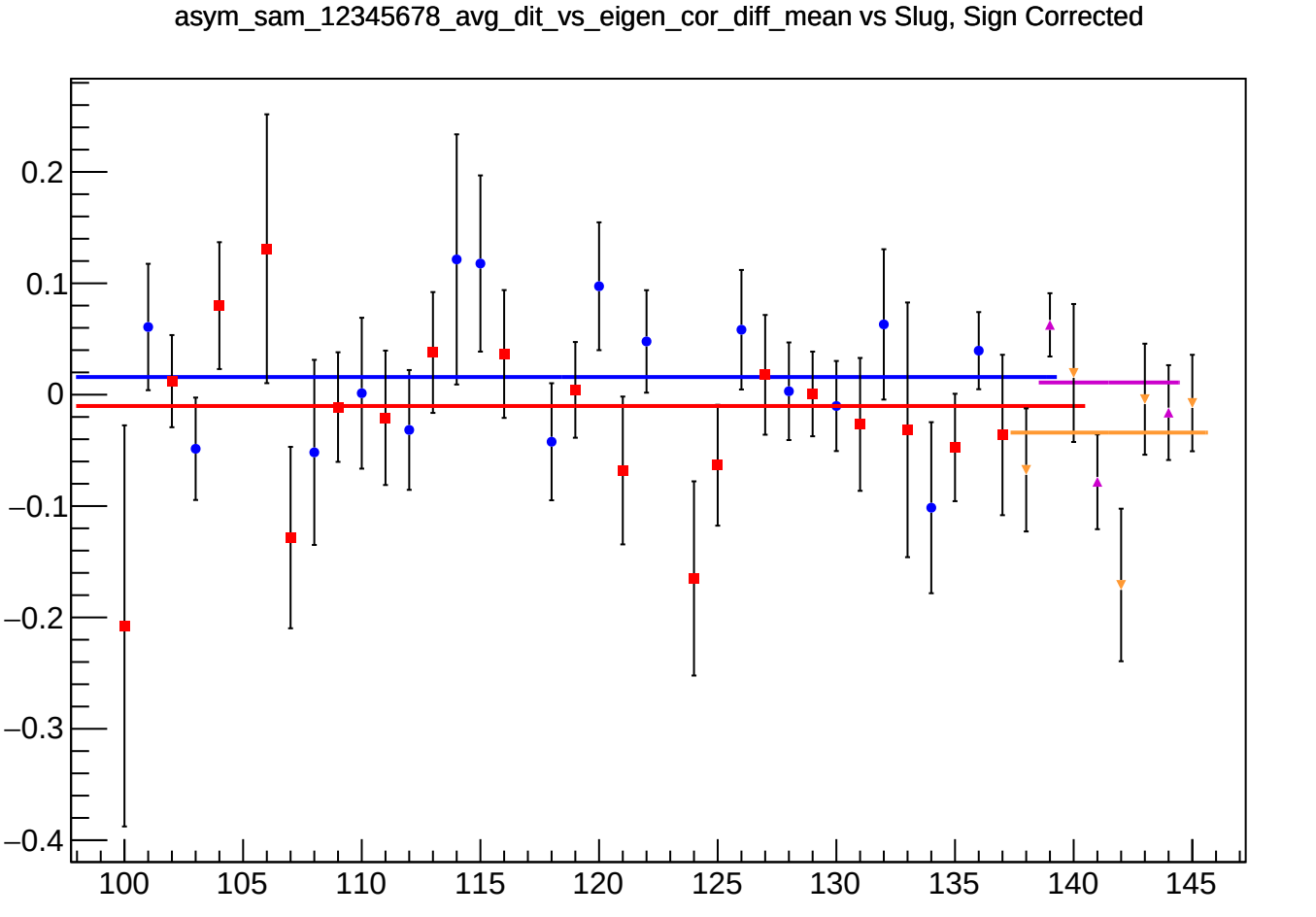
Left: 36.803+/-0.011 $\chi^2$/NDF: 642143.7/7

Right: 34.212+/-0.007 $\chi^2$/NDF: 1011212.4/34

In: 33.560+/-0.008 $\chi^2$/NDF:634310.1/18

Out: 36.319+/-0.008 $\chi^2$/NDF:1000819.0/23

All: 34.899+/-0.006 $\chi^2$/NDF: 1693610.3/42




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: -0.034+/-0.024 $\chi^2$/NDF:5.8/4

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.011+/-0.021 $\chi^2$/NDF:8.1/2

Left: -0.008+/-0.016 $\chi^2$/NDF: 16.0/7

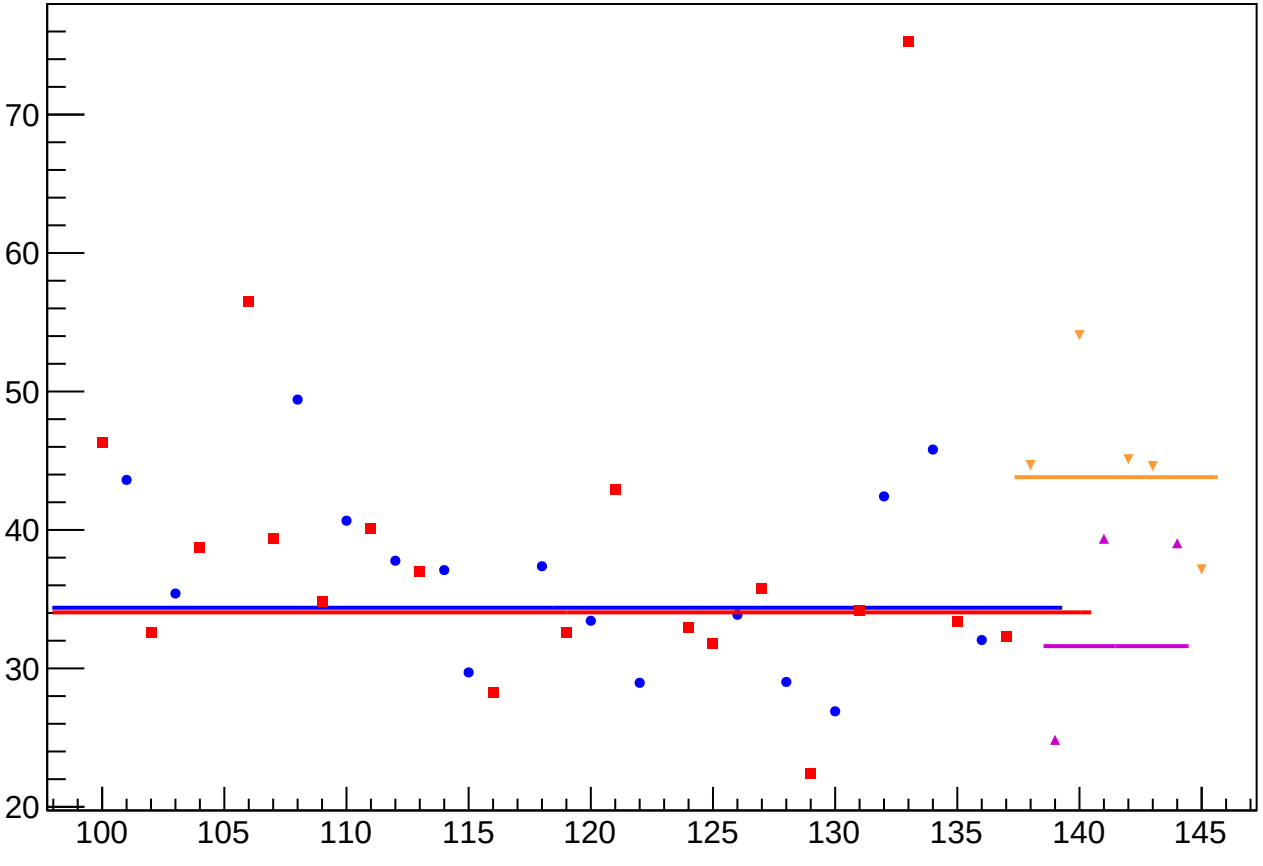
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.014+/-0.011 $\chi^2$/NDF:22.9/18

Out: -0.016+/-0.012 $\chi^2$/NDF:21.7/23

All: -0.000+/-0.008 $\chi^2$/NDF: 48.1/42

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: 43.813+/-0.017 $\chi^2$/NDF:103813.6/4

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642697.3/18

Left In: 31.608+/-0.015 $\chi^2$/NDF:241028.5/2

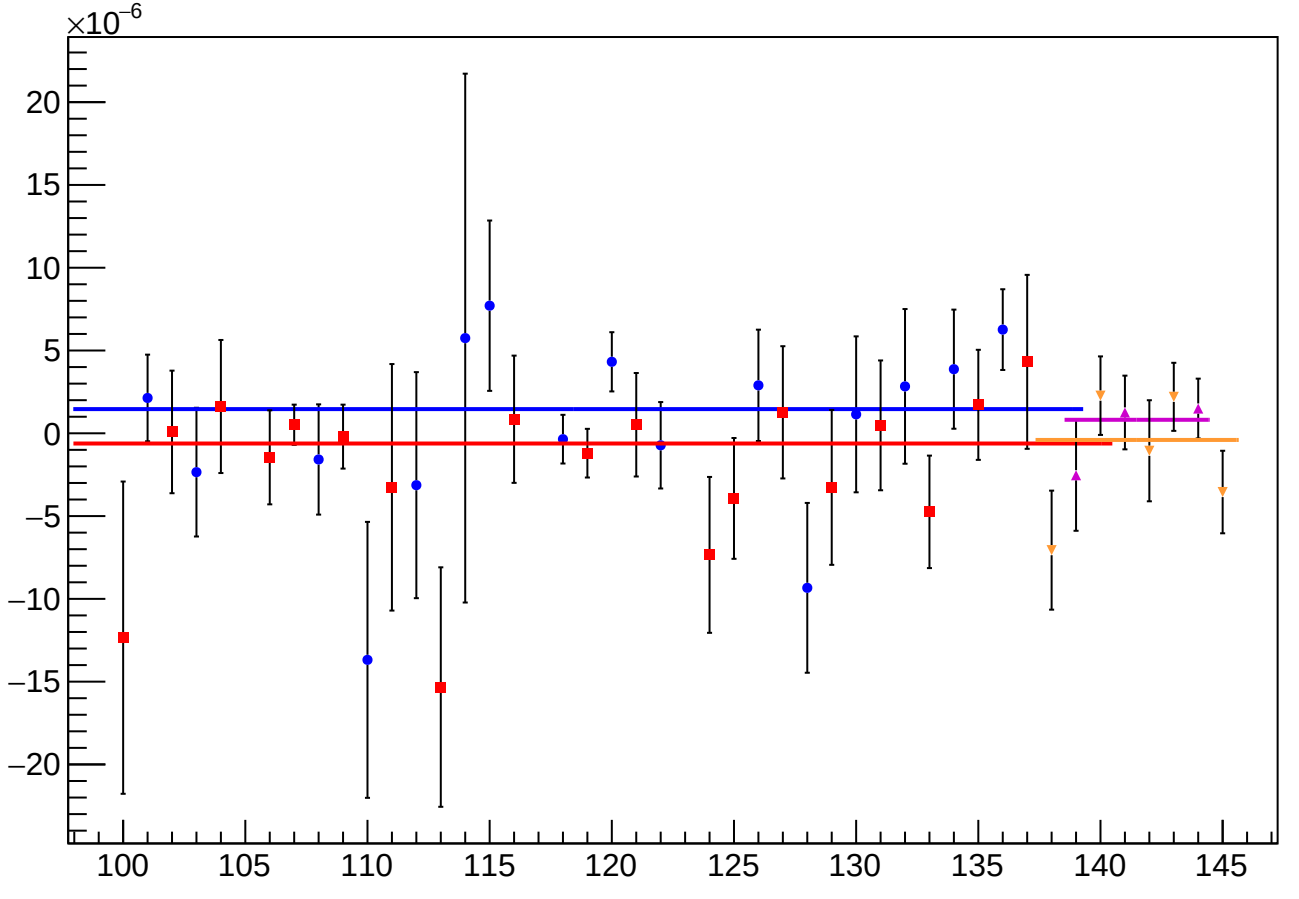
Left: 36.803+/-0.011 $\chi^2$/NDF: 642143.7/7

Right: 34.212+/-0.007 $\chi^2$/NDF: 1011212.4/34

In: 33.560+/-0.008 $\chi^2$/NDF:634310.1/18

Out: 36.319+/-0.008 $\chi^2$/NDF:1000819.0/23

All: 34.899+/-0.006 $\chi^2$/NDF: 1693610.3/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.0/15

Left Out: -0.000+/-0.000 $\chi^2$/NDF:7.9/4

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.9/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:1.2/2

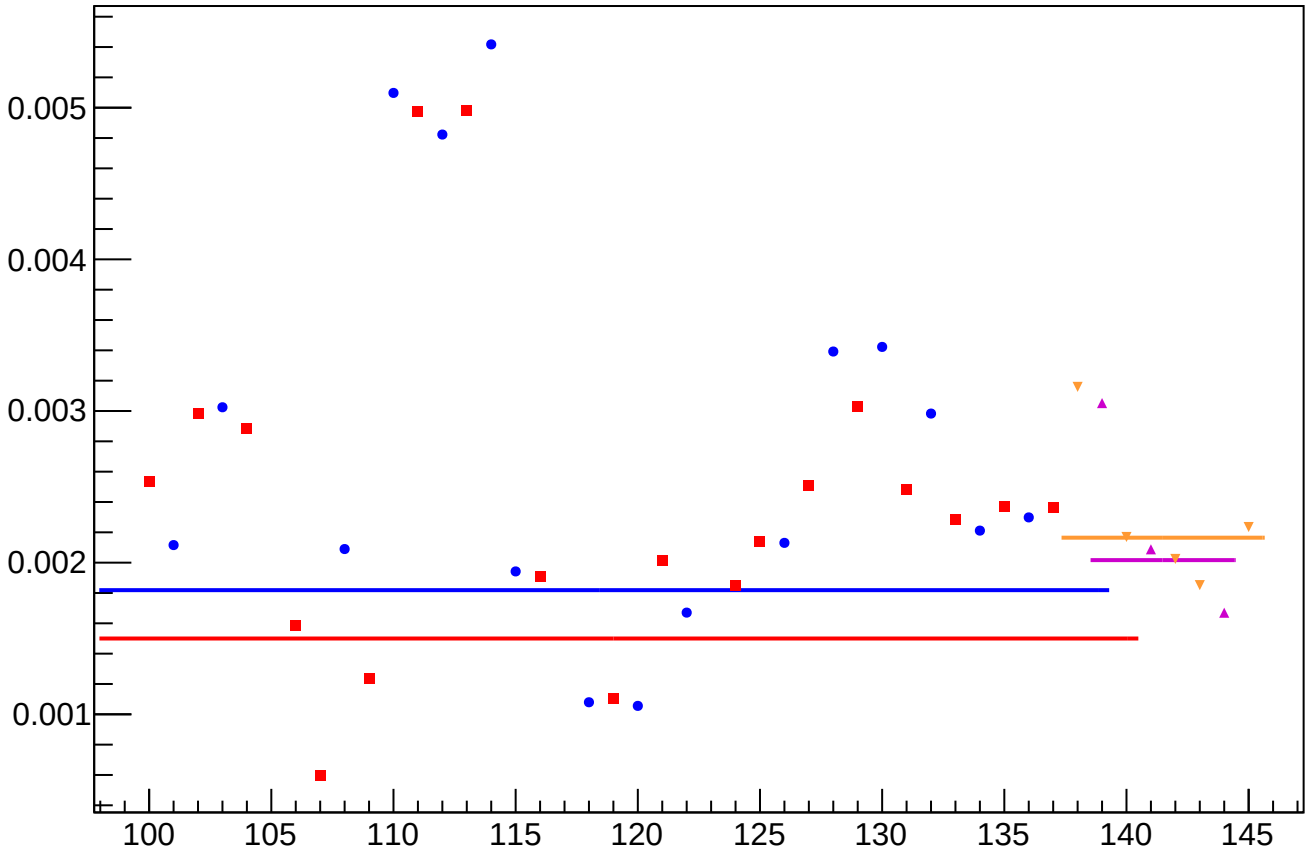
Left: 0.000+/-0.000 $\chi^2$/NDF: 9.6/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 39.3/34

In: 0.000+/-0.000 $\chi^2$/NDF:22.3/18

Out: -0.000+/-0.000 $\chi^2$/NDF:21.9/23

All: 0.000+/-0.000 $\chi^2$/NDF: 48.9/42




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2570250.6/15

Left Out: 0.002+/-0.000 $\chi^2$/NDF:205267.6/4

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 3689451.2/18

Left In: 0.002+/-0.000 $\chi^2$/NDF:266315.7/2

Left: 0.002+/-0.000 $\chi^2$/NDF: 486229.2/7

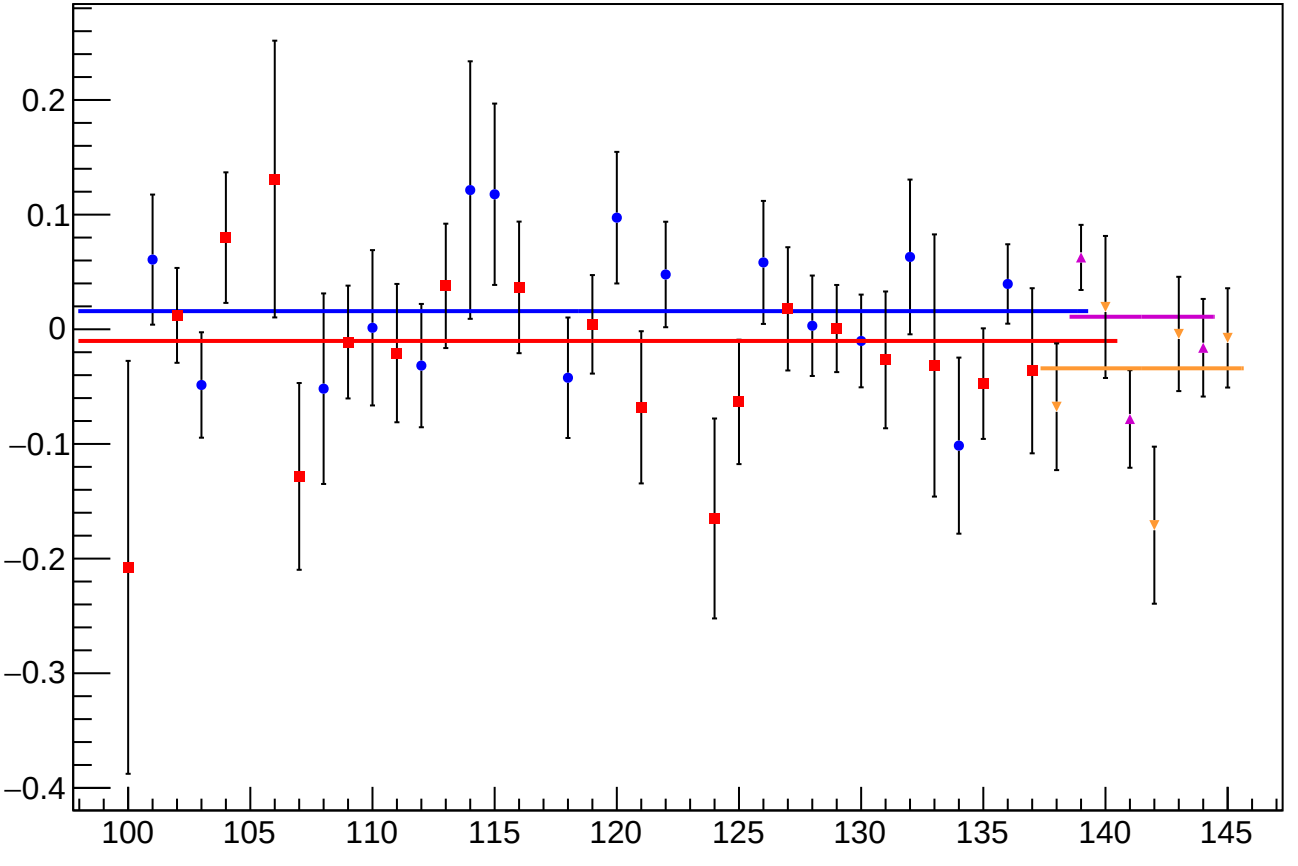
Right: 0.002+/-0.000 $\chi^2$/NDF: 6466308.5/34

In: 0.002+/-0.000 $\chi^2$/NDF:2871581.8/18

Out: 0.002+/-0.000 $\chi^2$/NDF:4404898.2/23

All: 0.002+/-0.000 $\chi^2$/NDF: 7394133.4/42

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.016+/-0.013 $\chi^2$/NDF: 14.8/15

Left Out: -0.034+/-0.024 $\chi^2$/NDF:5.8/4

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.011+/-0.021 $\chi^2$/NDF:8.1/2

Left: -0.008+/-0.016 $\chi^2$/NDF: 16.0/7

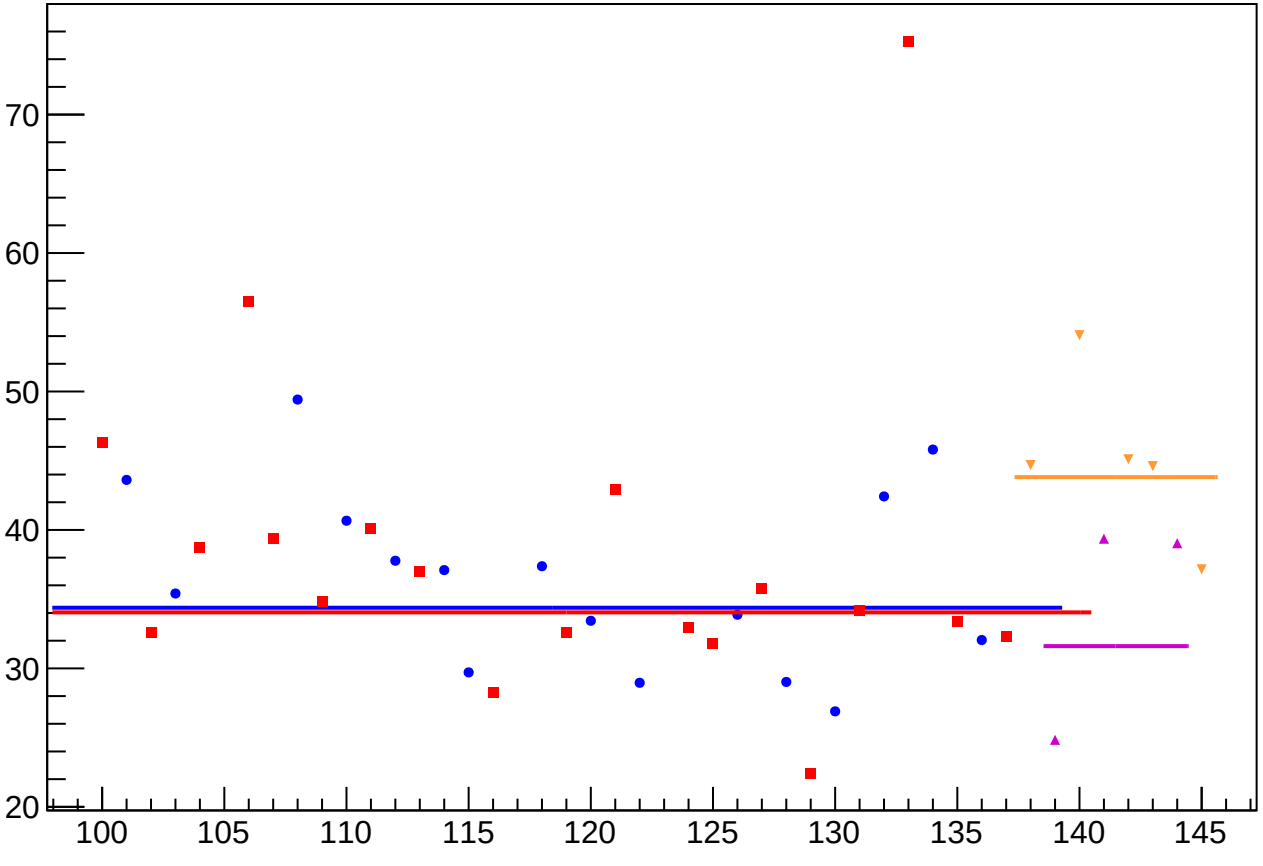
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.014+/-0.011 $\chi^2$/NDF:22.9/18

Out: -0.016+/-0.012 $\chi^2$/NDF:21.7/23

All: -0.000+/-0.008 $\chi^2$/NDF: 48.1/42

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: 43.814+/-0.017 $\chi^2$/NDF:103799.8/4

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642741.5/18

Left In: 31.608+/-0.015 $\chi^2$/NDF:241035.9/2

Left: 36.803+/-0.011 $\chi^2$/NDF: 642144.9/7

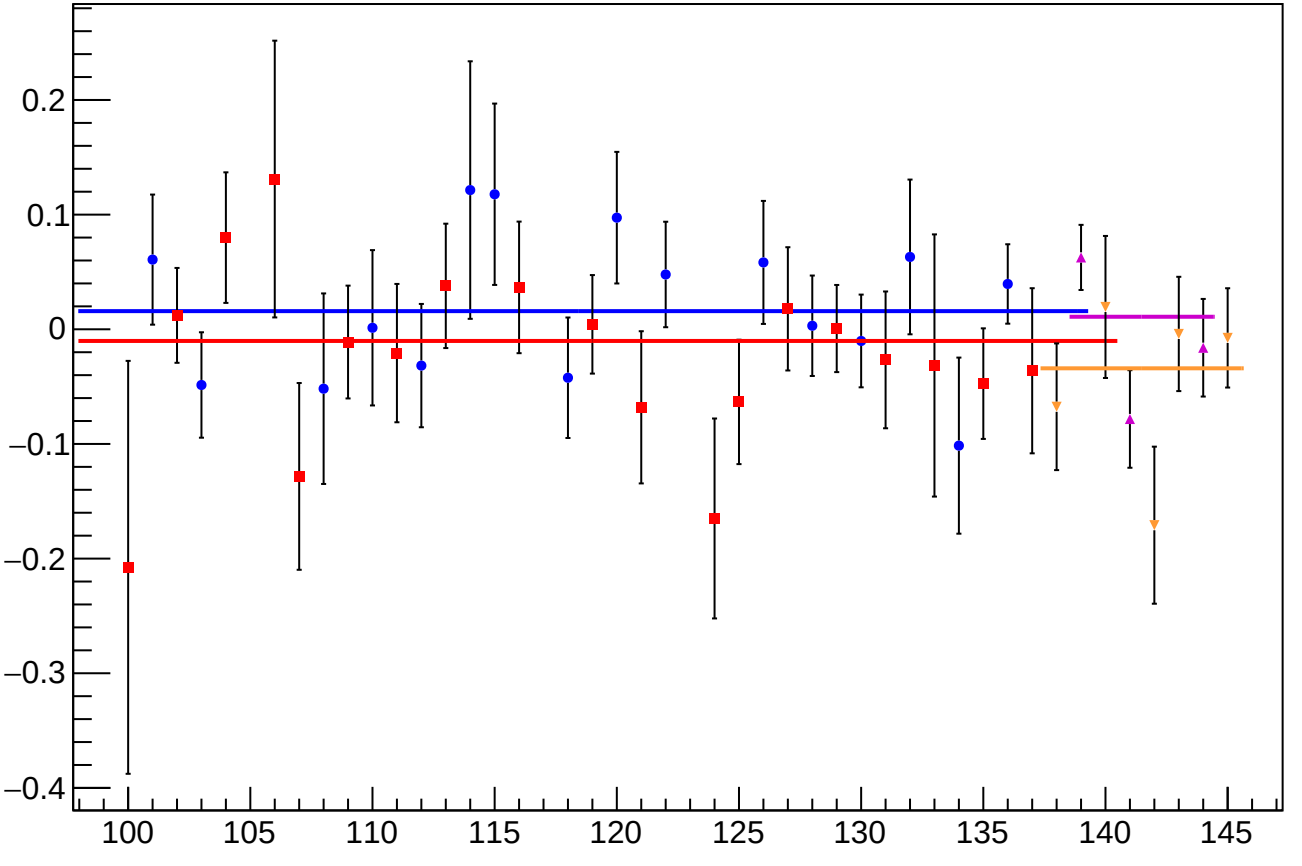
Right: 34.212+/-0.007 $\chi^2$/NDF: 1011312.9/34

In: 33.560+/-0.008 $\chi^2$/NDF:634355.1/18

Out: 36.318+/-0.008 $\chi^2$/NDF:1000904.8/23

All: 34.899+/-0.006 $\chi^2$/NDF: 1693744.5/42

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: -0.034+/-0.024 $\chi^2$/NDF:5.8/4

Right Out: -0.010+/-0.013 $\chi^2$/NDF: 15.1/18

Left In: 0.011+/-0.021 $\chi^2$/NDF:8.1/2

Left: -0.008+/-0.016 $\chi^2$/NDF: 16.0/7

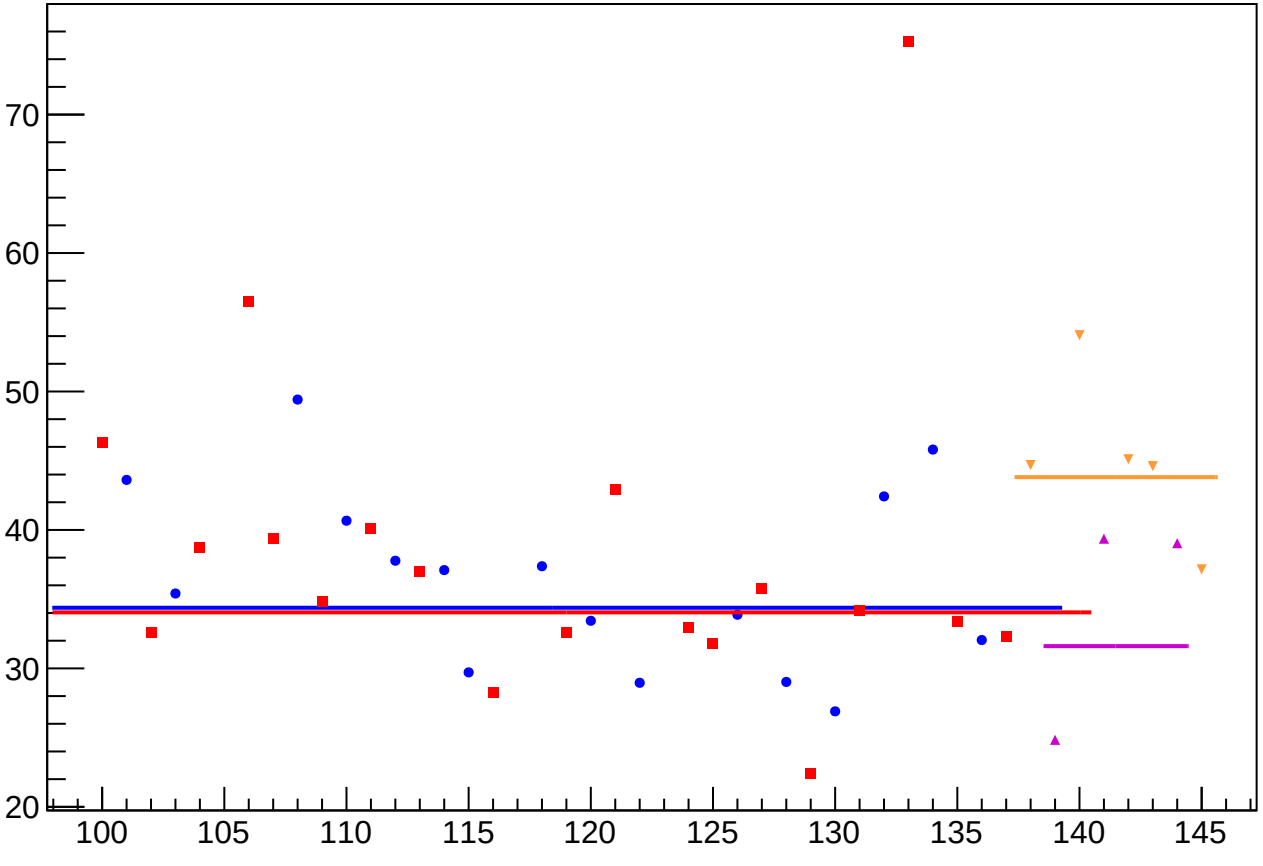
Right: 0.003+/-0.009 $\chi^2$/NDF: 31.8/34

In: 0.014+/-0.011 $\chi^2$/NDF:22.9/18

Out: -0.016+/-0.012 $\chi^2$/NDF:21.7/23

All: -0.000+/-0.008 $\chi^2$/NDF: 48.1/42

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: 43.814+/-0.017 $\chi^2$/NDF:103799.8/4

Right Out: 34.047+/-0.009 $\chi^2$/NDF: 642741.5/18

Left In: 31.608+/-0.015 $\chi^2$/NDF:241035.9/2

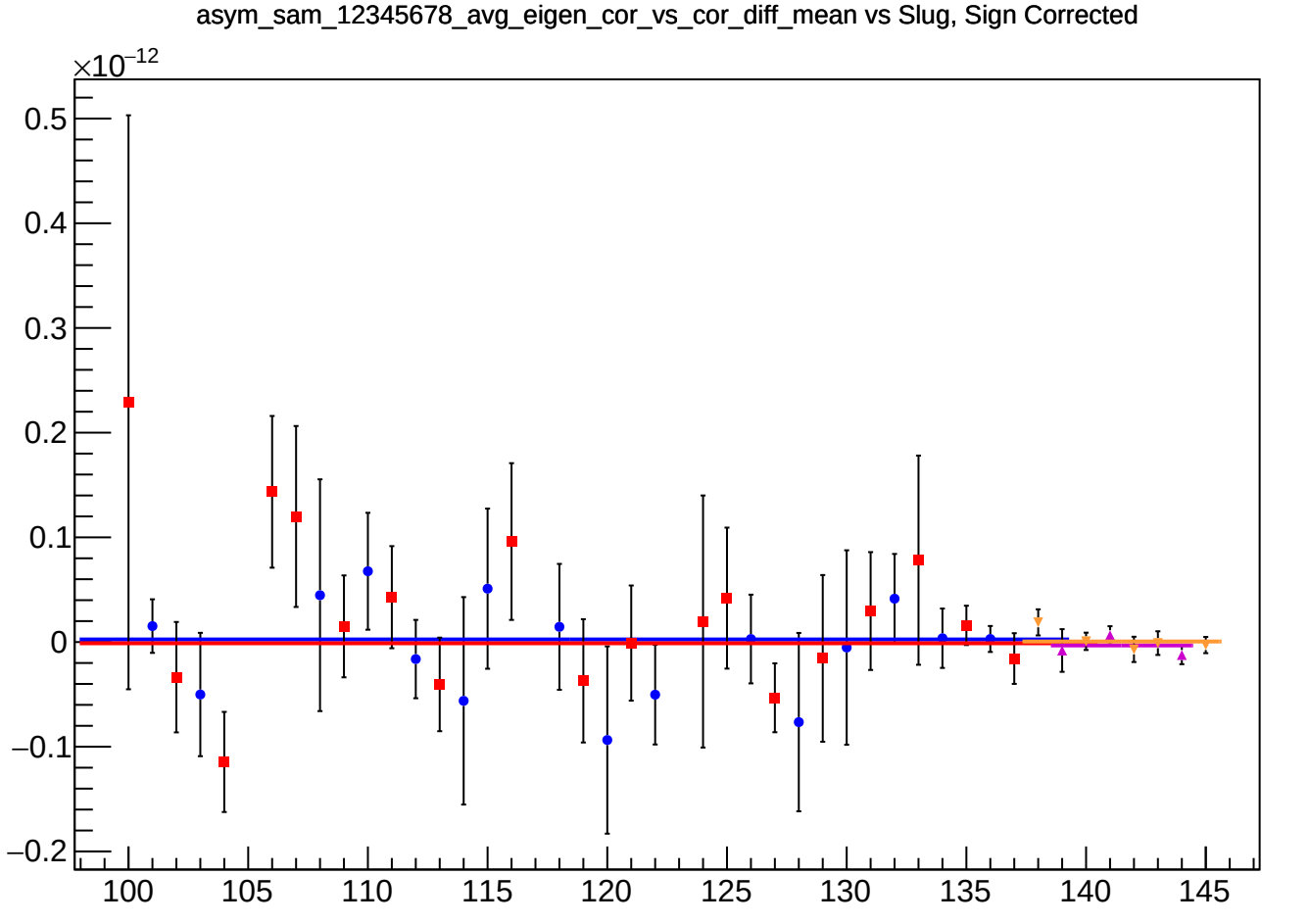
Left: 36.803+/-0.011 $\chi^2$/NDF: 642144.9/7

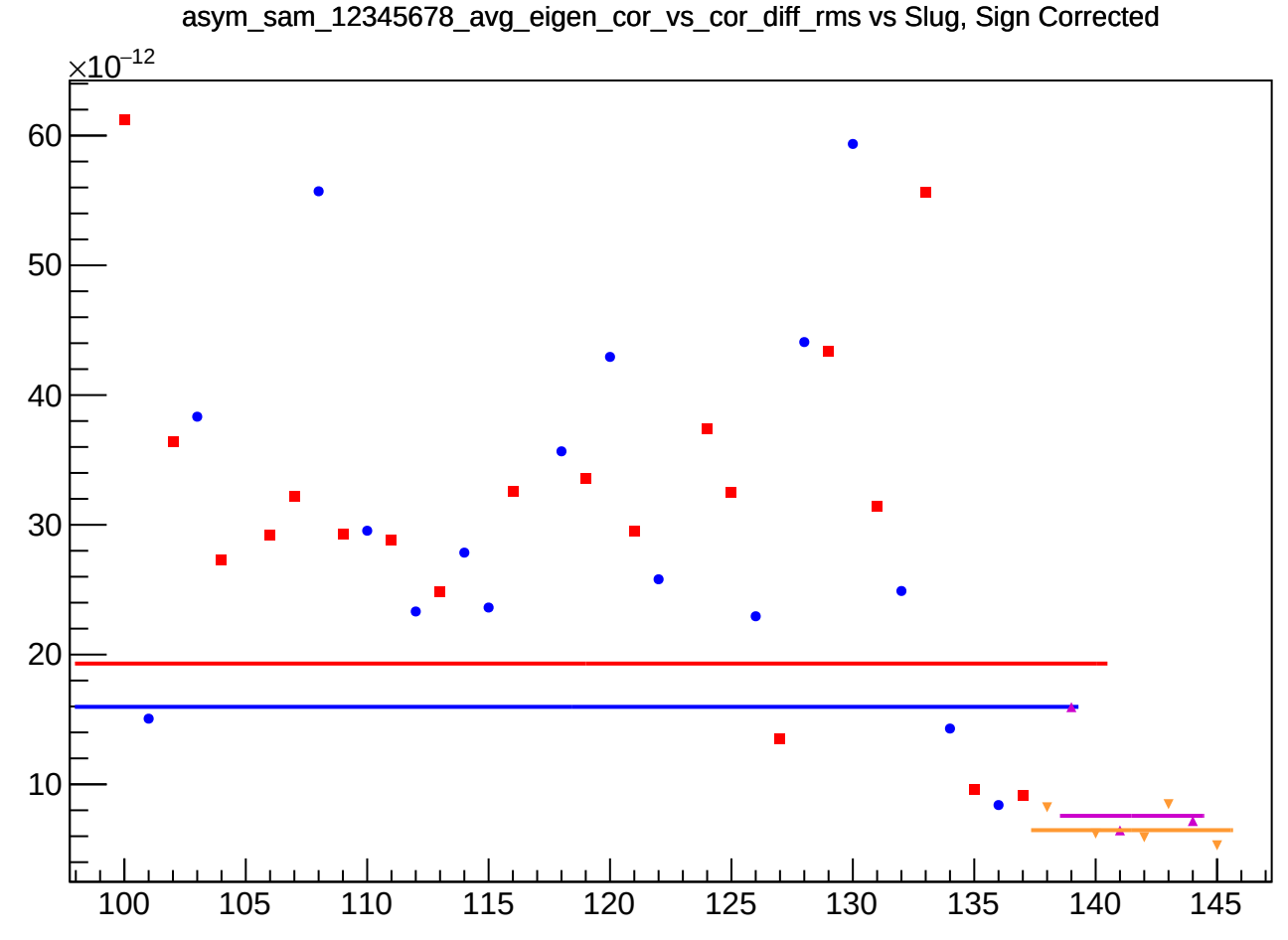
Right: 34.212+/-0.007 $\chi^2$/NDF: 1011312.9/34

In: 33.560+/-0.008 $\chi^2$/NDF:634355.1/18

Out: 36.318+/-0.008 $\chi^2$/NDF:1000904.8/23

All: 34.899+/-0.006 $\chi^2$/NDF: 1693744.5/42


asym_sam_12345678_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
100
105
110
115
120
125
130
135
140
145
Right In: 0.000+/-0.000 χ²/NDF: 7.7/15
Left Out: 0.000+/-0.000 χ²/NDF:2.7/4
Right Out: -0.000+/-0.000 χ²/NDF: 21.5/18
Left In: -0.000+/-0.000 χ²/NDF:2.4/2
Left: -0.000+/-0.000 χ²/NDF: 5.4/7
Right: 0.000+/-0.000 χ²/NDF: 29.3/34
In: -0.000+/-0.000 χ²/NDF:10.4/18
Out: 0.000+/-0.000 χ²/NDF:24.3/23
All: -0.000+/-0.000 χ²/NDF: 34.7/42




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2822278.6/15

Left Out: 0.000+/-0.000 $\chi^2$/NDF:154105.6/4

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2440768.5/18

Left In: 0.000+/-0.000 $\chi^2$/NDF:375996.0/2

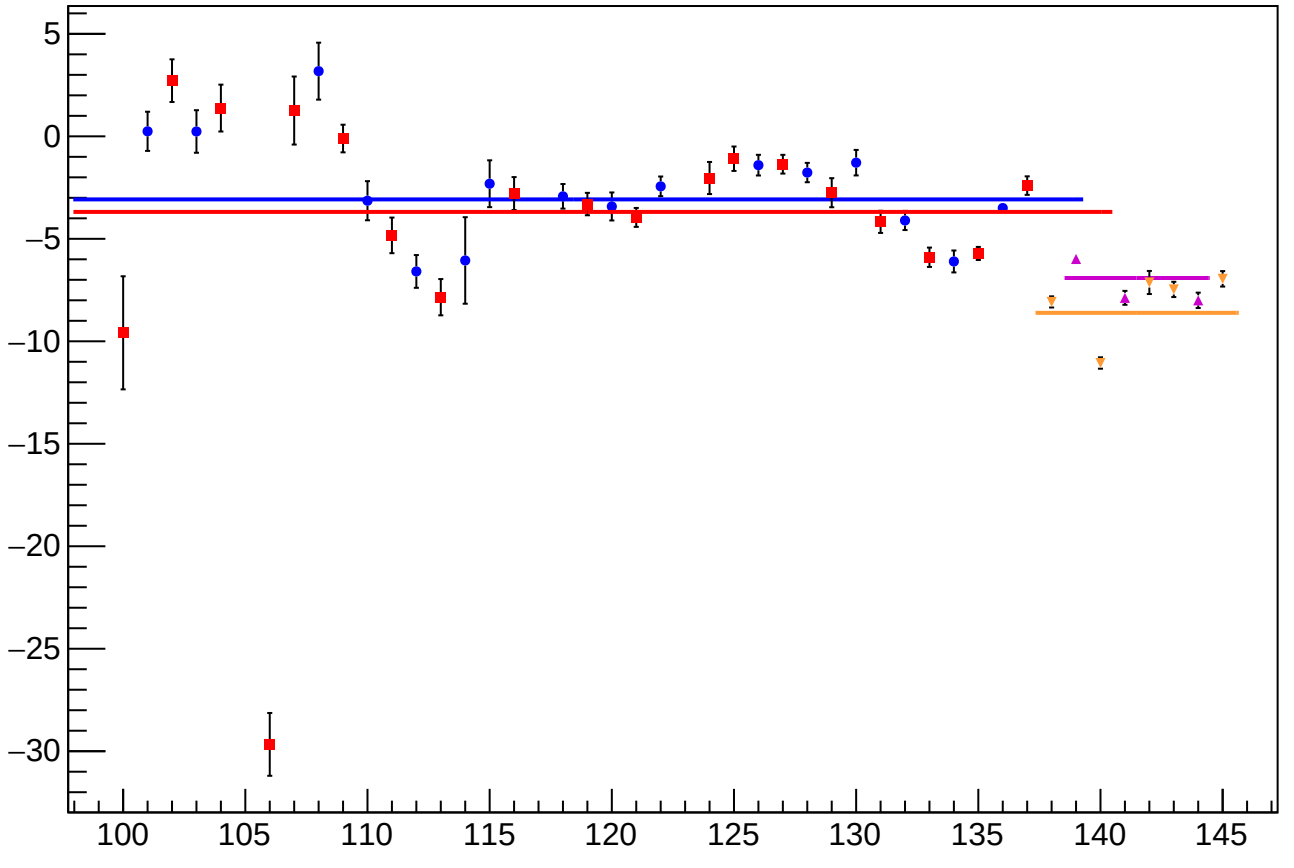
Left: 0.000+/-0.000 $\chi^2$/NDF: 575467.2/7

Right: 0.000+/-0.000 $\chi^2$/NDF: 5386653.4/34

In: 0.000+/-0.000 $\chi^2$/NDF:4471495.0/18

Out: 0.000+/-0.000 $\chi^2$/NDF:5270619.4/23

All: 0.000+/-0.000 $\chi^2$/NDF: 9894757.0/42




Right In: -3.077+/-0.135 $\chi^2$/NDF: 133.8/15

Left Out: -8.611+/-0.151 $\chi^2$/NDF:117.2/4

Right Out: -3.687+/-0.140 $\chi^2$/NDF: 534.8/18

Left In: -6.912+/-0.174 $\chi^2$/NDF:31.5/2

Left: -7.880+/-0.114 $\chi^2$/NDF: 203.3/7

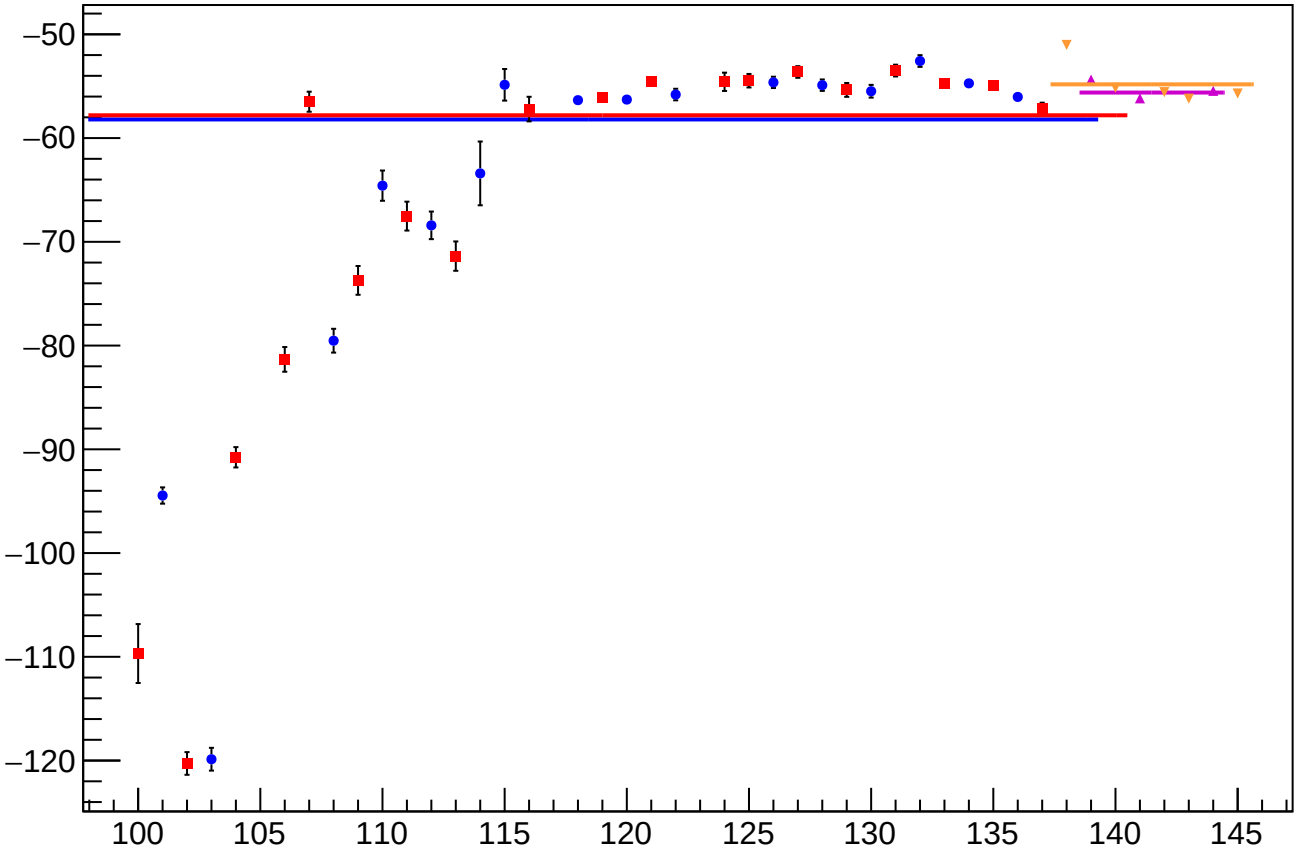
Right: -3.371+/-0.097 $\chi^2$/NDF: 678.4/34

In: -4.523+/-0.107 $\chi^2$/NDF:468.6/18

Out: -5.968+/-0.103 $\chi^2$/NDF:1223.5/23

All: -5.273+/-0.074 $\chi^2$/NDF: 1787.2/42

reg_asym_sam1_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -58.204+/-0.136 $\chi^2$/NDF: 6126.9/15

Left Out: -54.821+/-0.130 $\chi^2$/NDF:186.7/4

Right Out: -57.804+/-0.138 $\chi^2$/NDF: 5792.7/18

Left In: -55.612+/-0.172 $\chi^2$/NDF:13.6/2

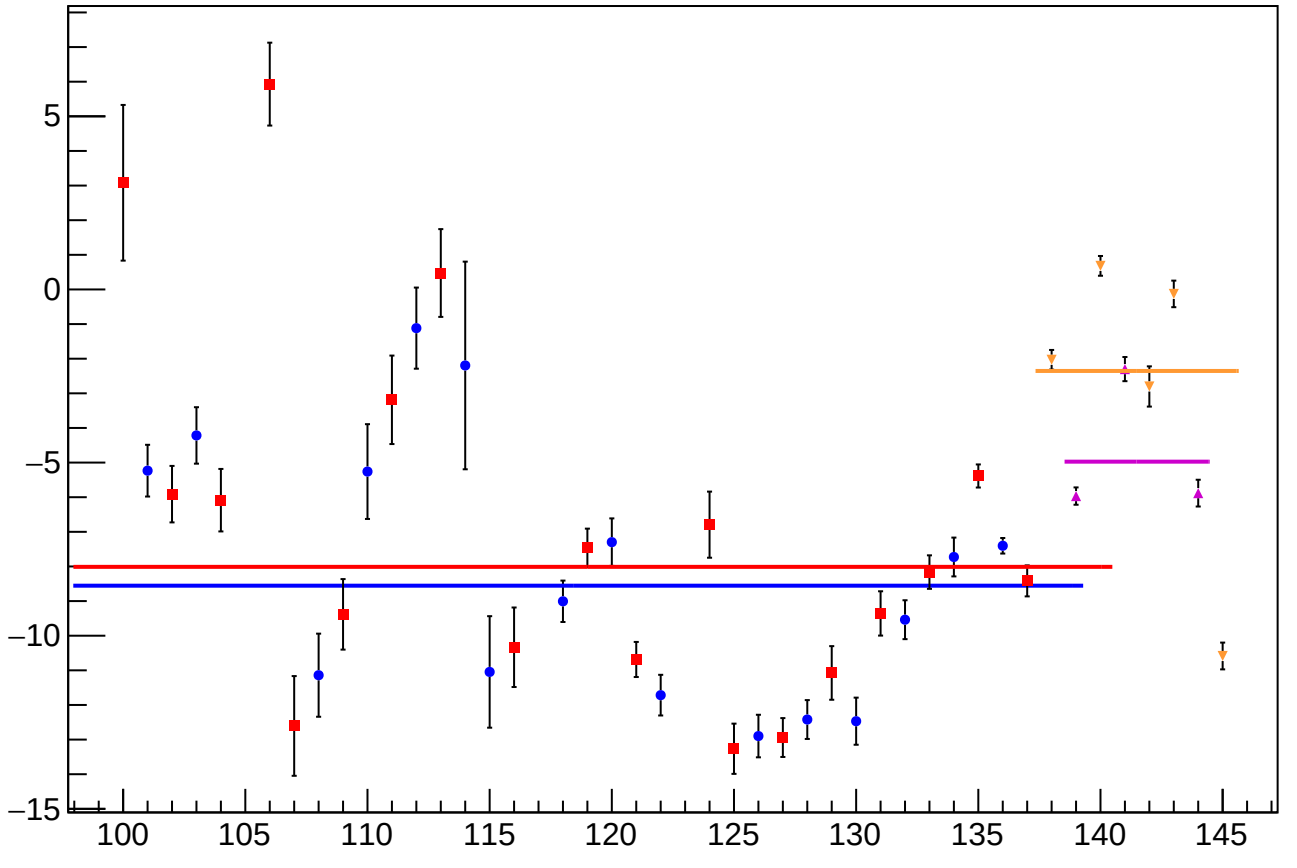
Left: -55.111+/-0.104 $\chi^2$/NDF: 213.8/7

Right: -58.008+/-0.097 $\chi^2$/NDF: 11923.9/34

In: -57.208+/-0.106 $\chi^2$/NDF:6281.1/18

Out: -56.223+/-0.095 $\chi^2$/NDF:6225.3/23

All: -56.660+/-0.071 $\chi^2$/NDF: 12554.1/42




Right In: -8.555+/-0.145 $\chi^2$/NDF: 300.7/15

Left Out: -2.354+/-0.156 $\chi^2$/NDF:601.5/4

Right Out: -8.011+/-0.153 $\chi^2$/NDF: 489.3/18

Left In: -4.973+/-0.180 $\chi^2$/NDF:80.1/2

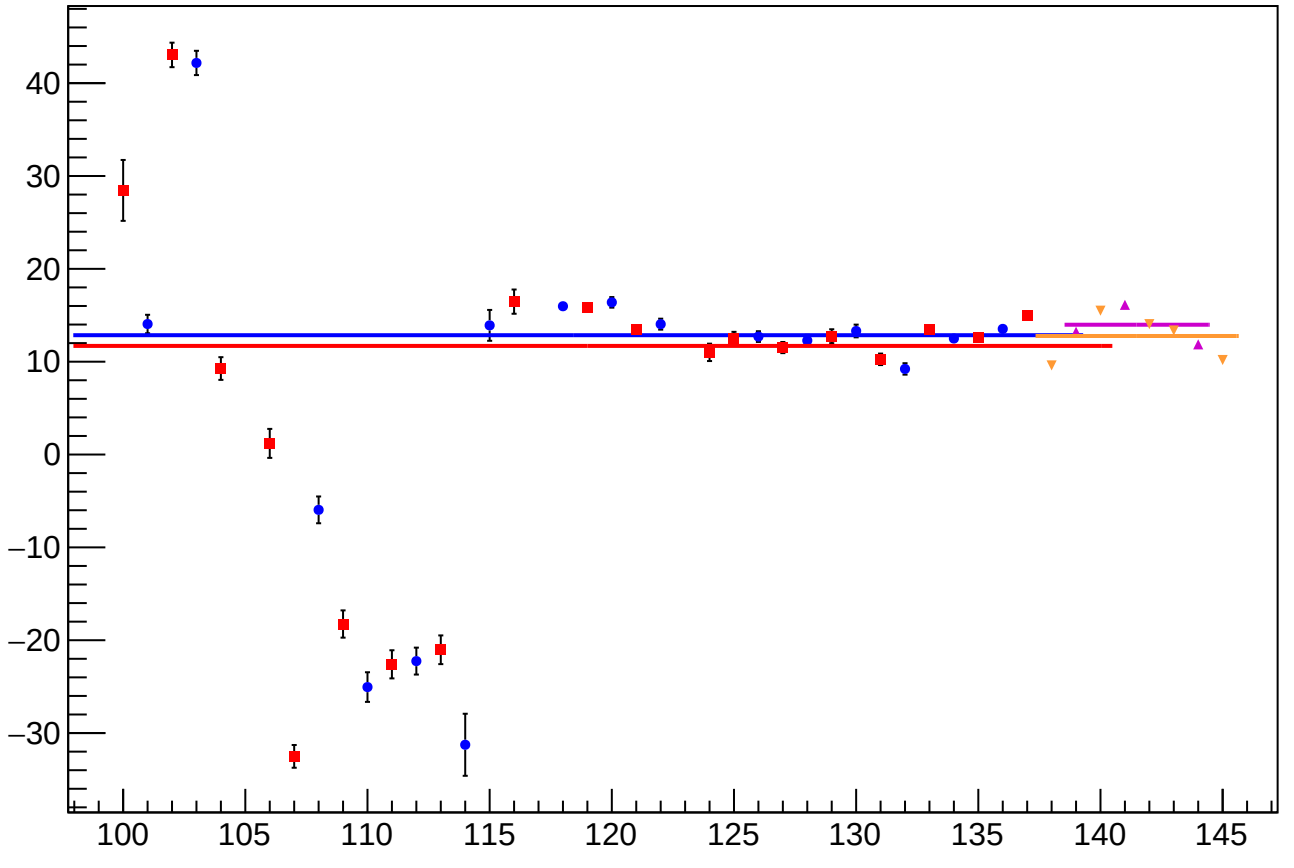
Left: -3.478+/-0.118 $\chi^2$/NDF: 802.6/7

Right: -8.298+/-0.105 $\chi^2$/NDF: 796.7/34

In: -7.148+/-0.113 $\chi^2$/NDF:621.4/18

Out: -5.238+/-0.109 $\chi^2$/NDF:1761.6/23

All: -6.162+/-0.078 $\chi^2$/NDF: 2531.2/42




Right In: 12.853+/-0.150 $\chi^2$/NDF: 2128.4/15

Left Out: 12.767+/-0.151 $\chi^2$/NDF:242.4/4

Right Out: 11.699+/-0.155 $\chi^2$/NDF: 3498.8/18

Left In: 13.981+/-0.194 $\chi^2$/NDF:97.3/2

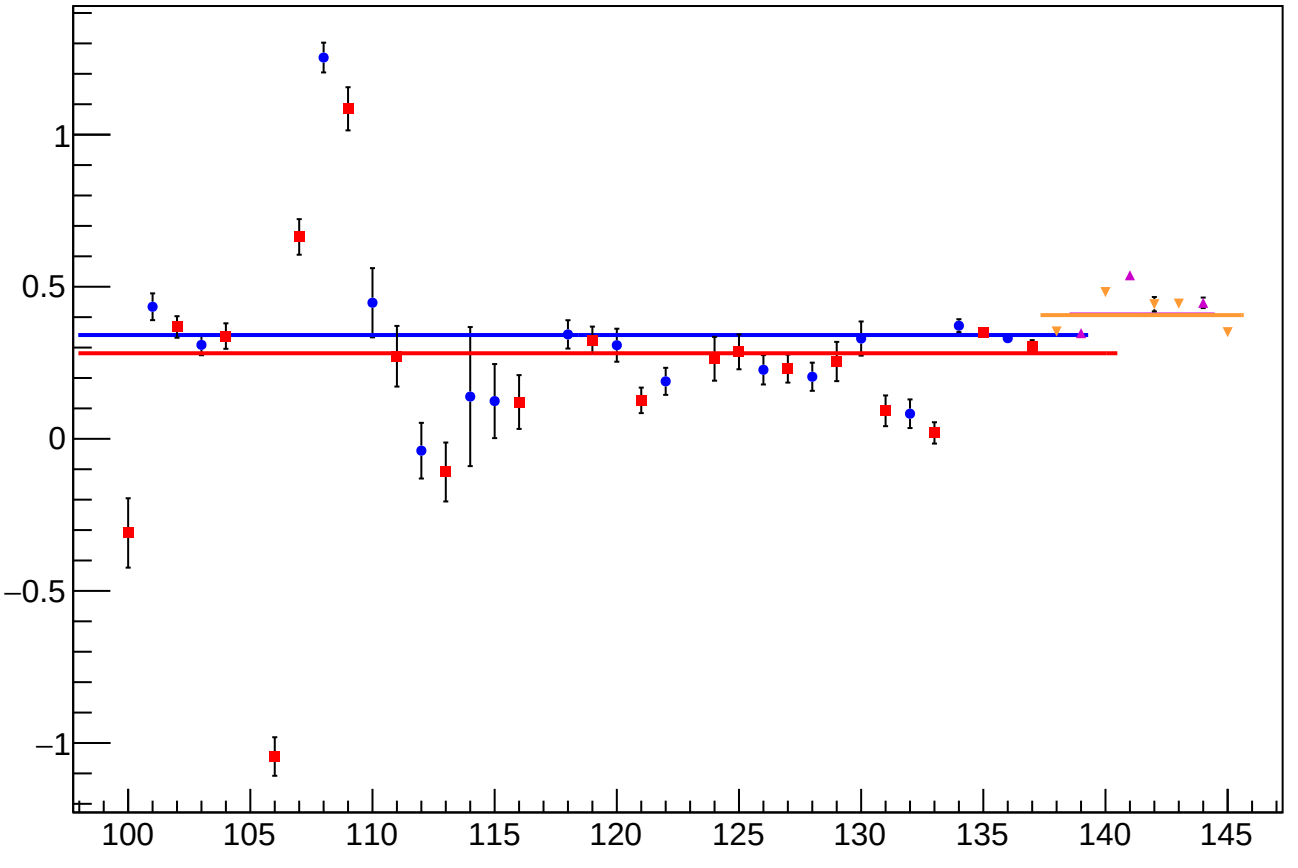
Left: 13.226+/-0.119 $\chi^2$/NDF: 363.9/7

Right: 12.294+/-0.108 $\chi^2$/NDF: 5655.7/34

In: 13.276+/-0.119 $\chi^2$/NDF:2246.8/18

Out: 12.246+/-0.108 $\chi^2$/NDF:3765.5/23

All: 12.713+/-0.080 $\chi^2$/NDF: 6053.2/42




Right In: 0.341+/-0.008 $\chi^2$/NDF: 434.8/15

Left Out: 0.407+/-0.006 $\chi^2$/NDF:81.5/4

Right Out: 0.281+/-0.008 $\chi^2$/NDF: 777.6/18

Left In: 0.409+/-0.007 $\chi^2$/NDF:134.7/2

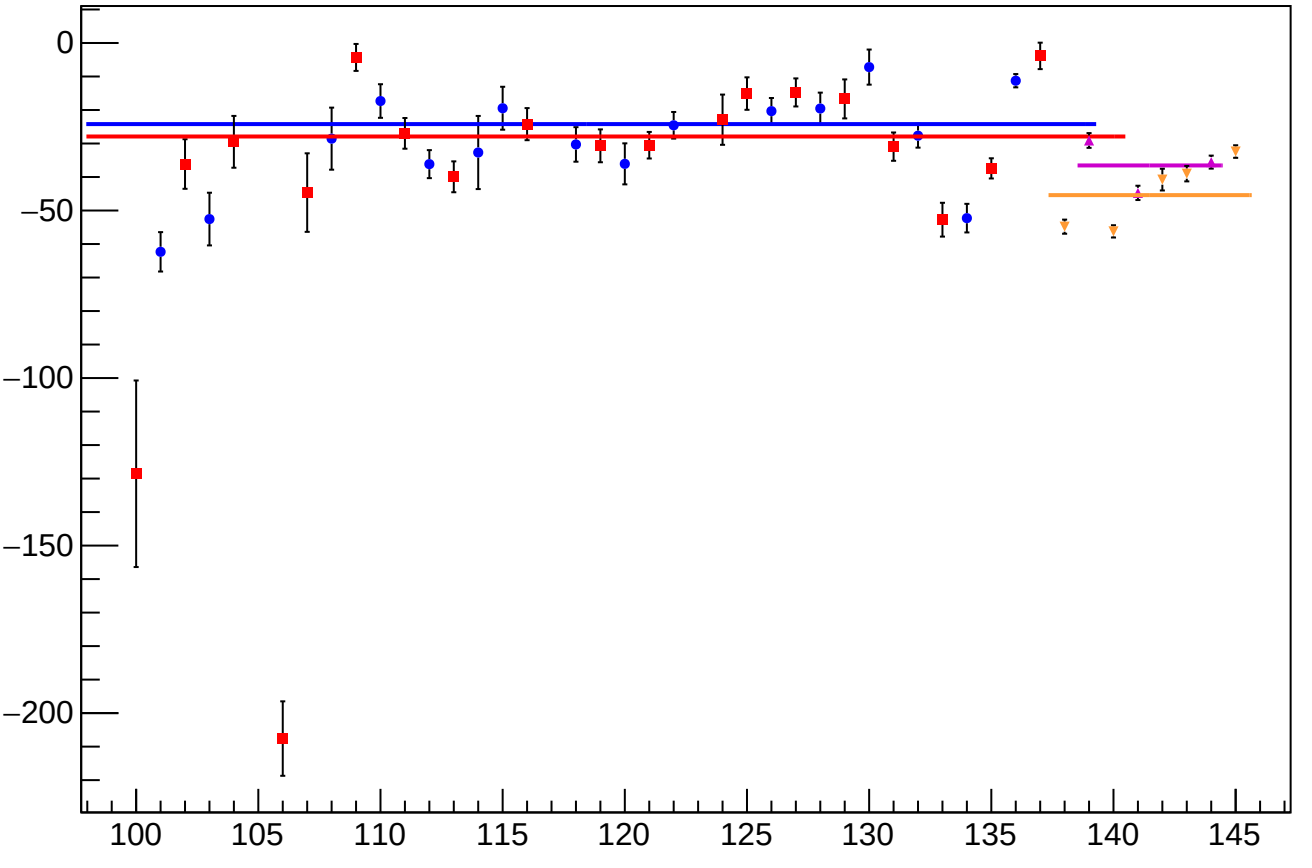
Left: 0.408+/-0.005 $\chi^2$/NDF: 216.2/7

Right: 0.313+/-0.006 $\chi^2$/NDF: 1239.2/34

In: 0.379+/-0.005 $\chi^2$/NDF:611.0/18

Out: 0.361+/-0.005 $\chi^2$/NDF:999.1/23

All: 0.370+/-0.004 $\chi^2$/NDF: 1616.1/42




Right In: -24.205+/-1.086 $\chi^2$/NDF: 170.7/15

Left Out: -45.405+/-0.958 $\chi^2$/NDF:112.6/4

Right Out: -27.906+/-1.137 $\chi^2$/NDF: 413.4/18

Left In: -36.547+/-1.204 $\chi^2$/NDF:26.4/2

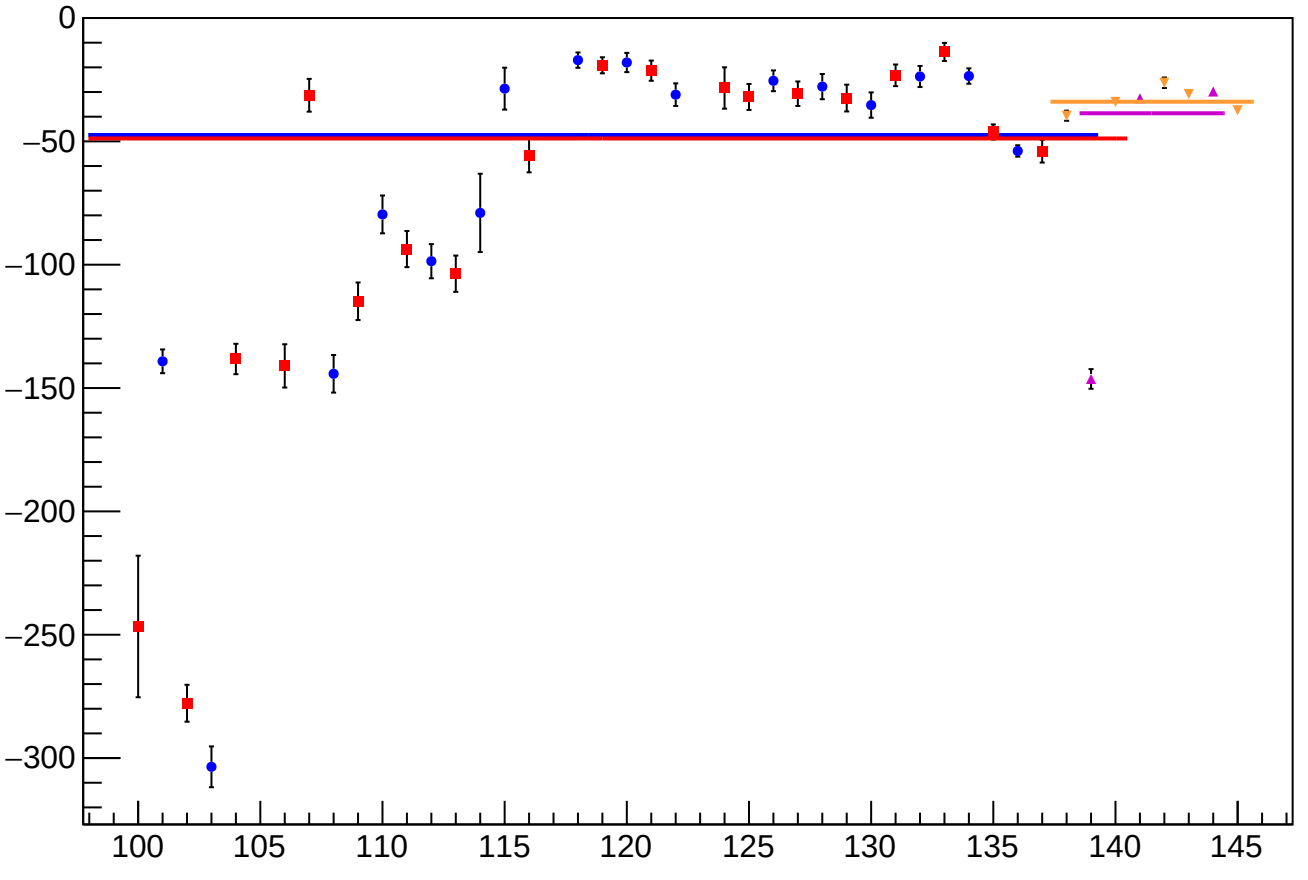
Left: -41.970+/-0.749 $\chi^2$/NDF: 172.2/7

Right: -25.971+/-0.785 $\chi^2$/NDF: 589.7/34

In: -29.746+/-0.806 $\chi^2$/NDF:255.1/18

Out: -38.141+/-0.733 $\chi^2$/NDF:664.5/23

All: -34.346+/-0.542 $\chi^2$/NDF: 979.0/42




Right In: -47.421+/-1.101 $\chi^2$/NDF: 1873.5/15

Left Out: -33.931+/-0.773 $\chi^2$/NDF:29.4/4

Right Out: -48.831+/-1.182 $\chi^2$/NDF: 1774.6/18

Left In: -38.614+/-1.020 $\chi^2$/NDF:783.2/2

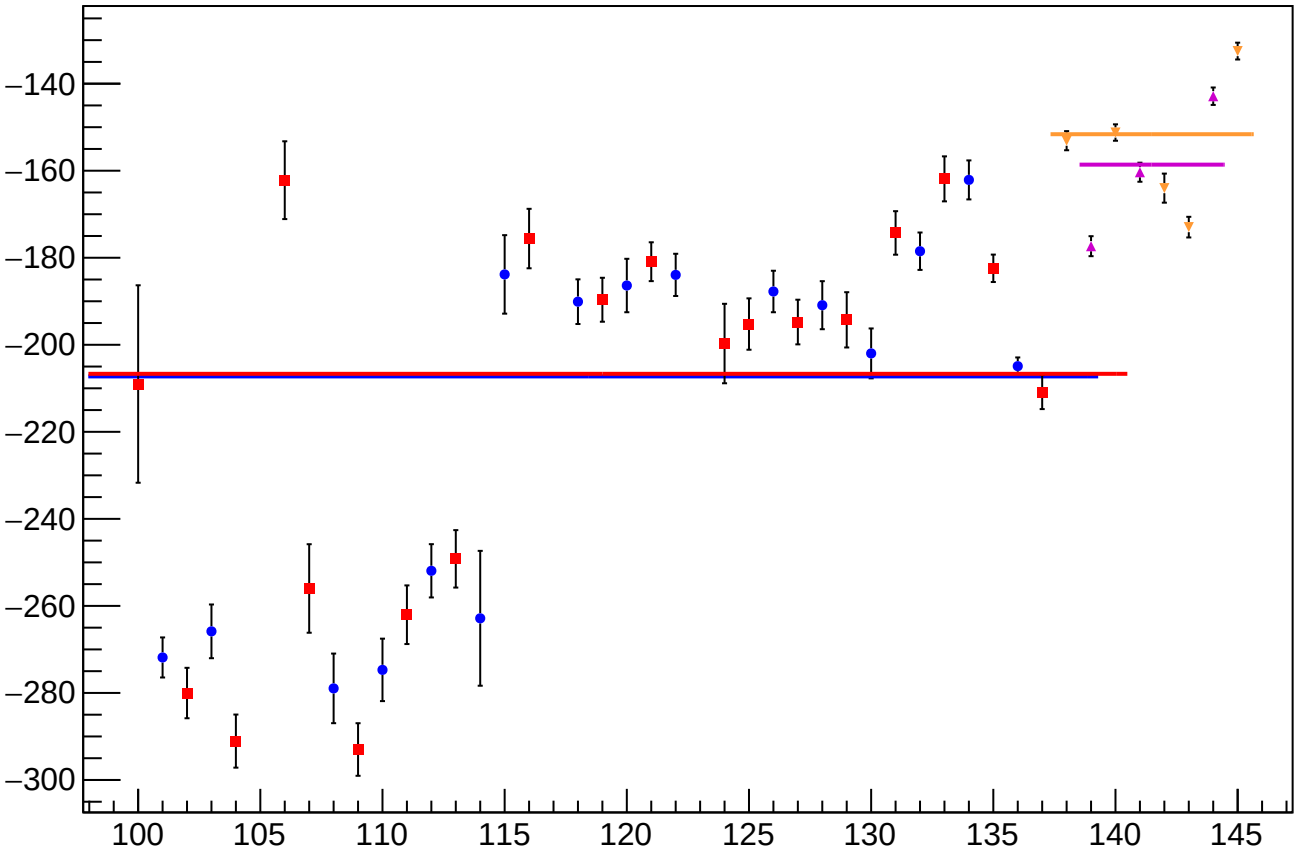
Left: -35.637+/-0.616 $\chi^2$/NDF: 825.9/7

Right: -48.076+/-0.806 $\chi^2$/NDF: 3648.9/34

In: -42.684+/-0.748 $\chi^2$/NDF:2691.1/18

Out: -38.389+/-0.647 $\chi^2$/NDF:1915.3/23

All: -40.225+/-0.489 $\chi^2$/NDF: 4625.2/42




Right In: -207.266+/-1.178 $\chi^2$/NDF: 748.5/15

Left Out: -151.612+/-0.989 $\chi^2$/NDF:192.8/4

Right Out: -206.673+/-1.279 $\chi^2$/NDF: 969.4/18

Left In: -158.605+/-1.243 $\chi^2$/NDF:128.9/2

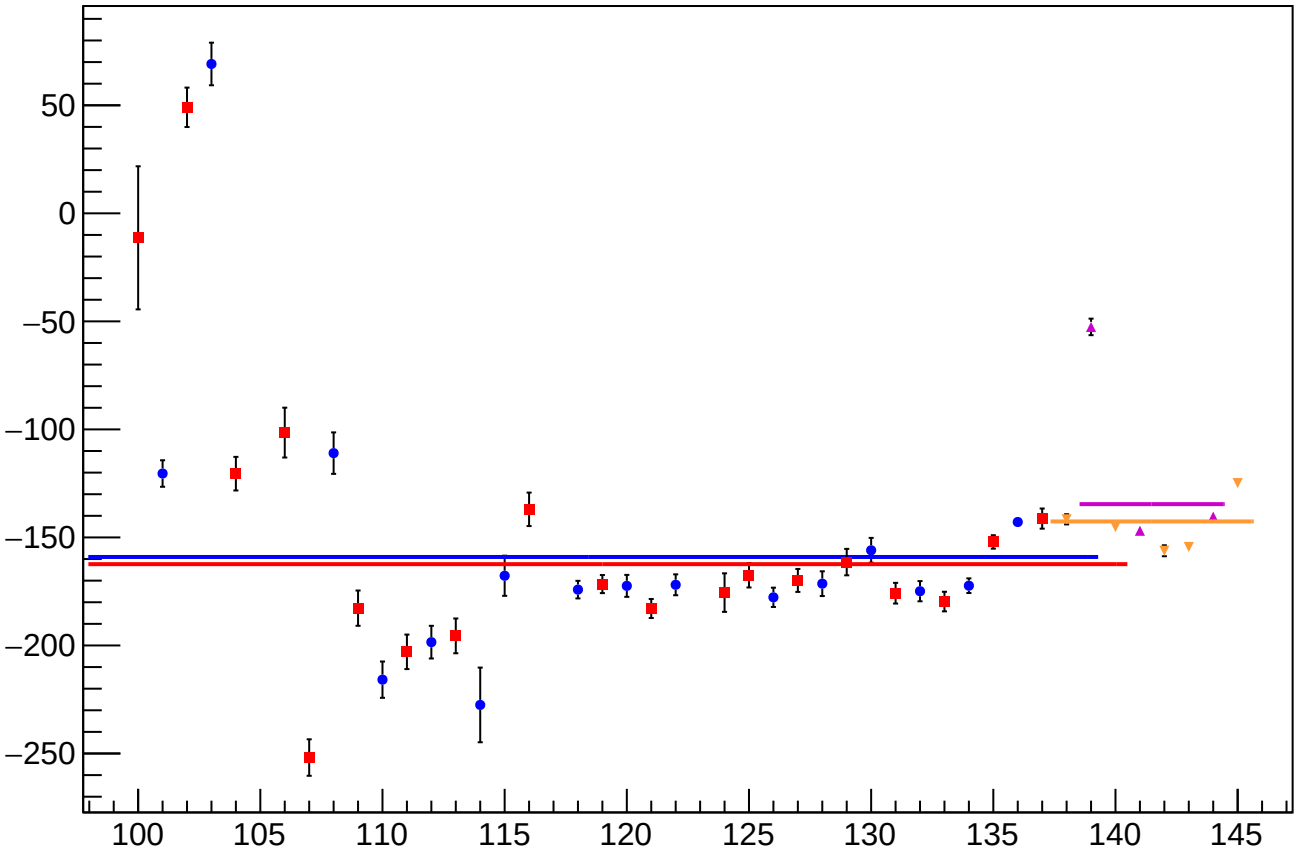
Left: -154.324+/-0.774 $\chi^2$/NDF: 341.1/7

Right: -206.994+/-0.867 $\chi^2$/NDF: 1718.0/34

In: -184.226+/-0.855 $\chi^2$/NDF:1684.8/18

Out: -172.199+/-0.782 $\chi^2$/NDF:2321.7/23

All: -177.680+/-0.577 $\chi^2$/NDF: 4114.3/42




Right In: -159.048+/-1.225 $\chi^2$/NDF: 815.8/15

Left Out: -142.601+/-0.908 $\chi^2$/NDF:168.3/4

Right Out: -162.370+/-1.324 $\chi^2$/NDF: 872.6/18

Left In: -134.593+/-1.185 $\chi^2$/NDF:516.1/2

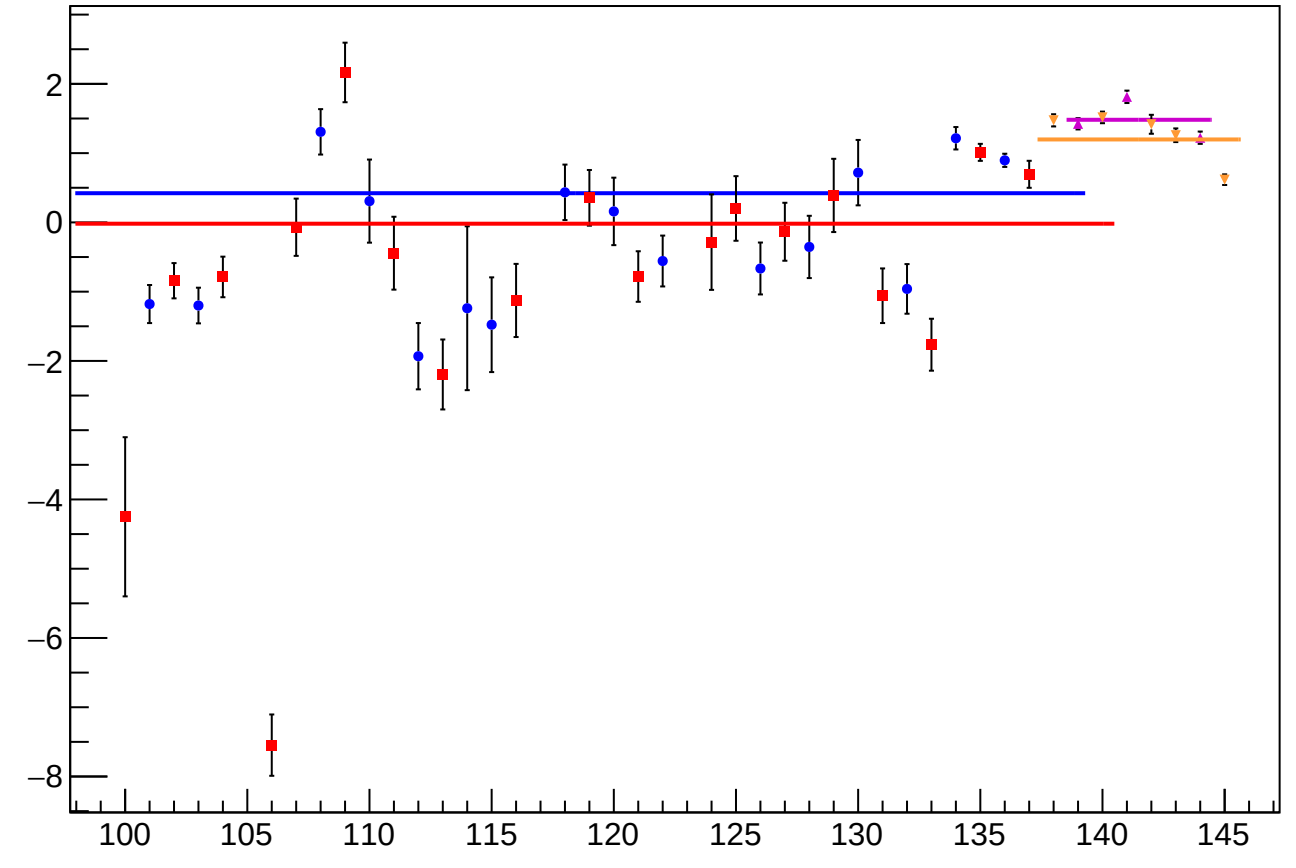
Left: -139.640+/-0.721 $\chi^2$/NDF: 713.2/7

Right: -160.581+/-0.899 $\chi^2$/NDF: 1691.7/34

In: -146.412+/-0.852 $\chi^2$/NDF:1537.7/18

Out: -148.922+/-0.749 $\chi^2$/NDF:1192.5/23

All: -147.828+/-0.562 $\chi^2$/NDF: 2735.1/42




Right In: 0.421+/-0.065 $\chi^2$/NDF: 197.6/15

Left Out: 1.198+/-0.041 $\chi^2$/NDF:84.5/4

Right Out: -0.019+/-0.072 $\chi^2$/NDF: 488.2/18

Left In: 1.481+/-0.050 $\chi^2$/NDF:22.7/2

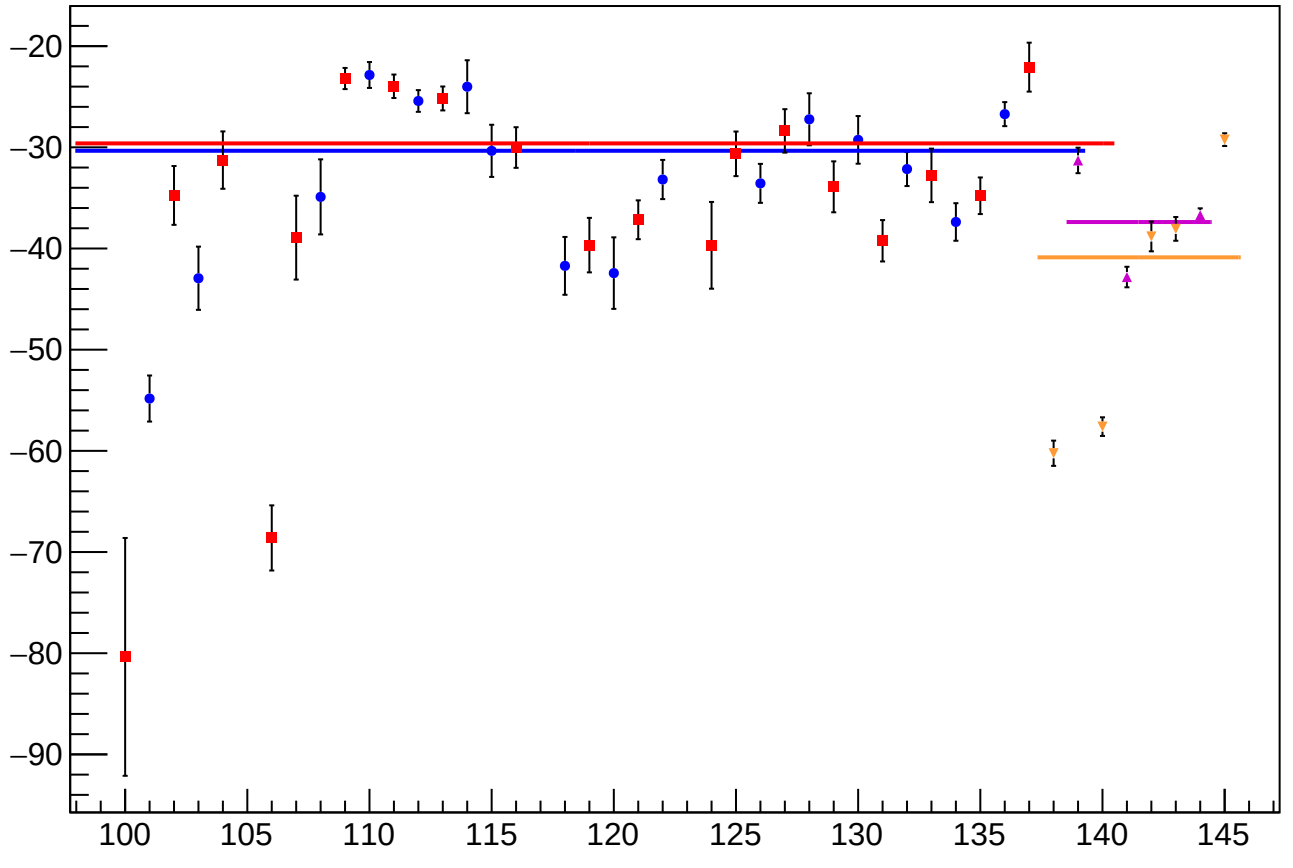
Left: 1.311+/-0.032 $\chi^2$/NDF: 126.5/7

Right: 0.225+/-0.048 $\chi^2$/NDF: 706.4/34

In: 1.086+/-0.040 $\chi^2$/NDF:387.9/18

Out: 0.902+/-0.036 $\chi^2$/NDF:787.0/23

All: 0.984+/-0.026 $\chi^2$/NDF: 1186.7/42




Right In: -30.341+/-0.468 $\chi^2$/NDF: 253.6/15

Left Out: -40.874+/-0.426 $\chi^2$/NDF:917.8/4

Right Out: -29.613+/-0.450 $\chi^2$/NDF: 329.2/18

Left In: -37.385+/-0.517 $\chi^2$/NDF:53.0/2

Left: -39.464+/-0.329 $\chi^2$/NDF: 998.0/7

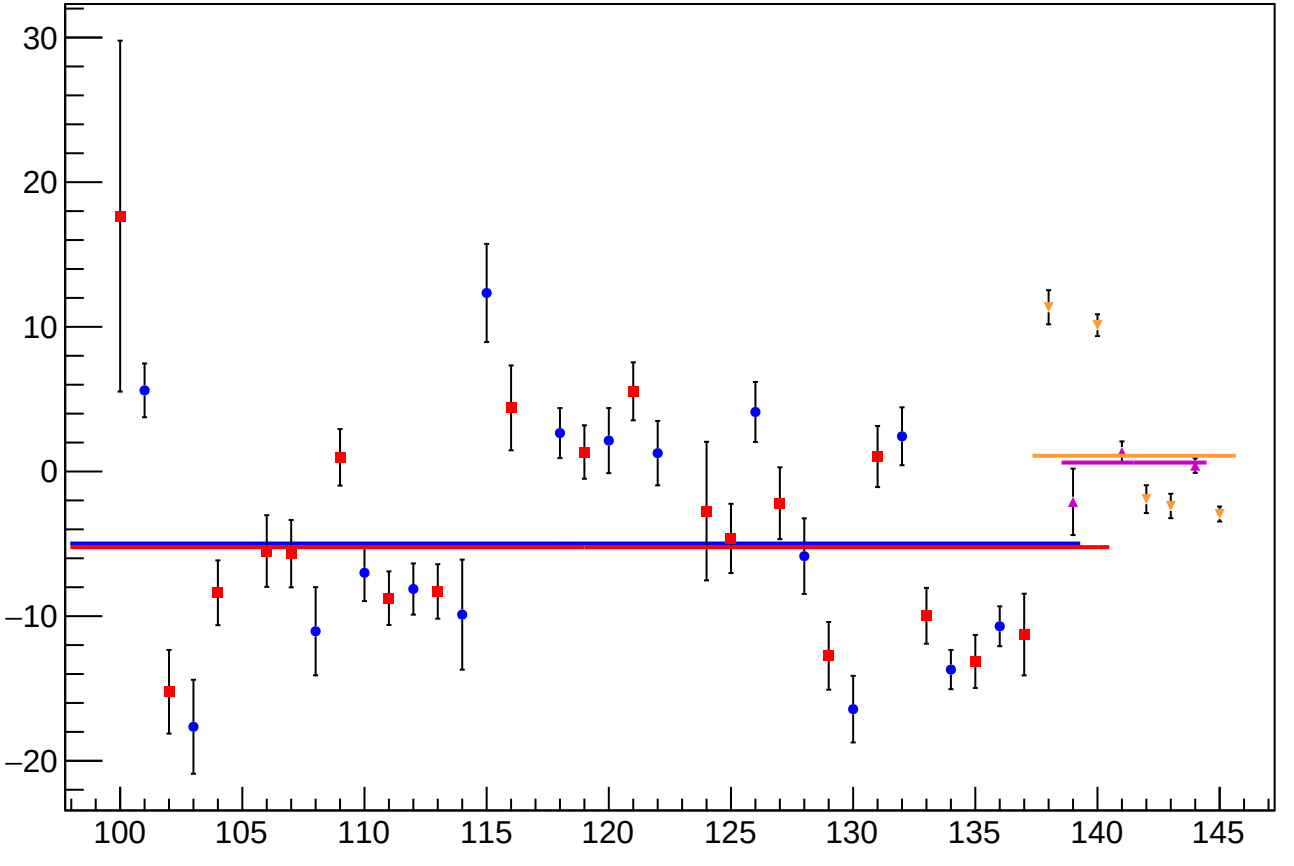
Right: -29.963+/-0.324 $\chi^2$/NDF: 584.0/34

In: -33.512+/-0.347 $\chi^2$/NDF:408.7/18

Out: -35.561+/-0.309 $\chi^2$/NDF:1577.1/23

All: -34.653+/-0.231 $\chi^2$/NDF: 2005.2/42

reg_asym_sam3_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -4.980+/-0.510 $\chi^2$/NDF: 237.3/15

Left Out: 1.088+/-0.339 $\chi^2$/NDF:305.3/4

Right Out: -5.228+/-0.524 $\chi^2$/NDF: 136.5/18

Left In: 0.617+/-0.409 $\chi^2$/NDF:2.5/2

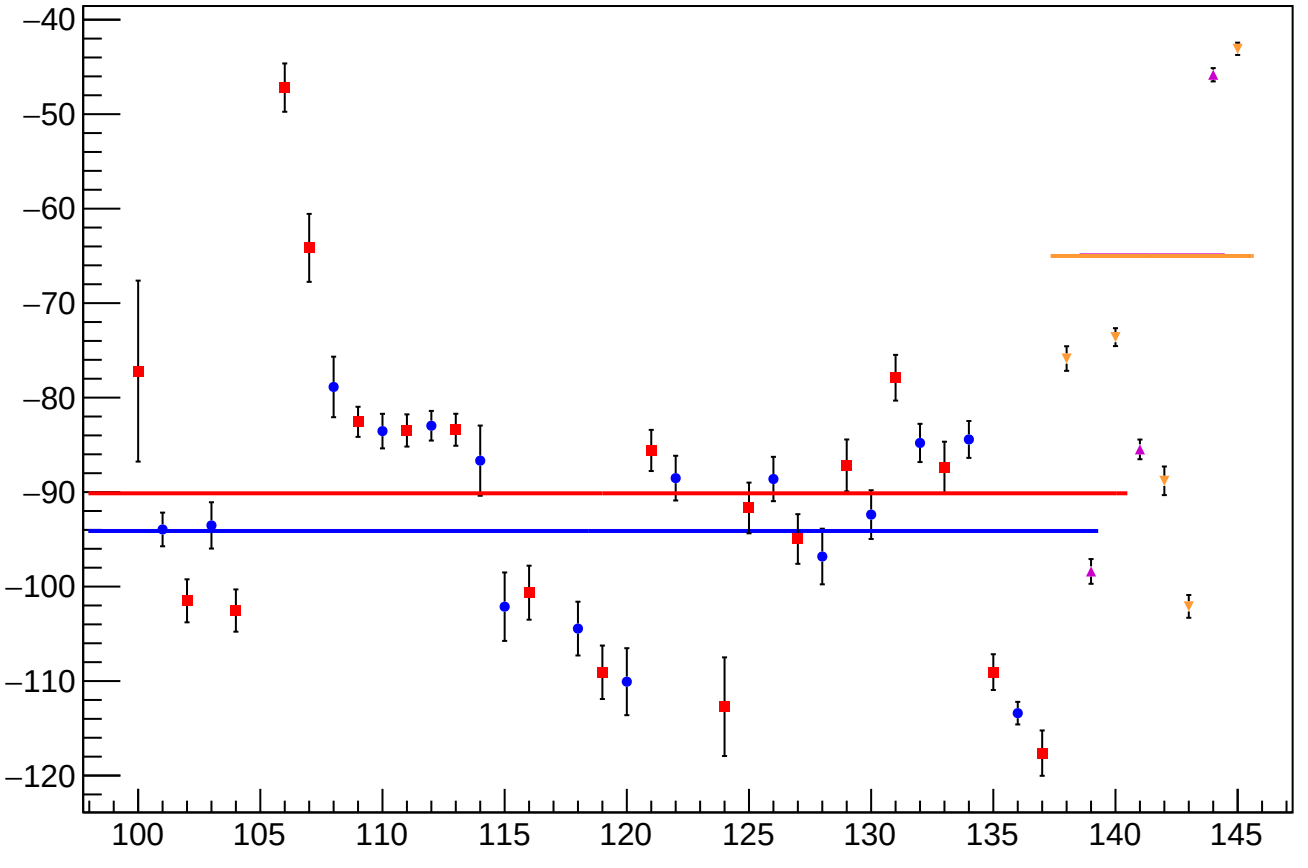
Left: 0.896+/-0.261 $\chi^2$/NDF: 308.6/7

Right: -5.100+/-0.365 $\chi^2$/NDF: 373.9/34

In: -1.576+/-0.319 $\chi^2$/NDF:313.2/18

Out: -0.780+/-0.285 $\chi^2$/NDF:544.2/23

All: -1.133+/-0.212 $\chi^2$/NDF: 860.9/42




Right In: -94.115+/-0.537 $\chi^2$/NDF: 466.8/15

Left Out: -65.009+/-0.439 $\chi^2$/NDF:2479.6/4

Right Out: -90.127+/-0.543 $\chi^2$/NDF: 789.3/18

Left In: -64.943+/-0.533 $\chi^2$/NDF:1776.4/2

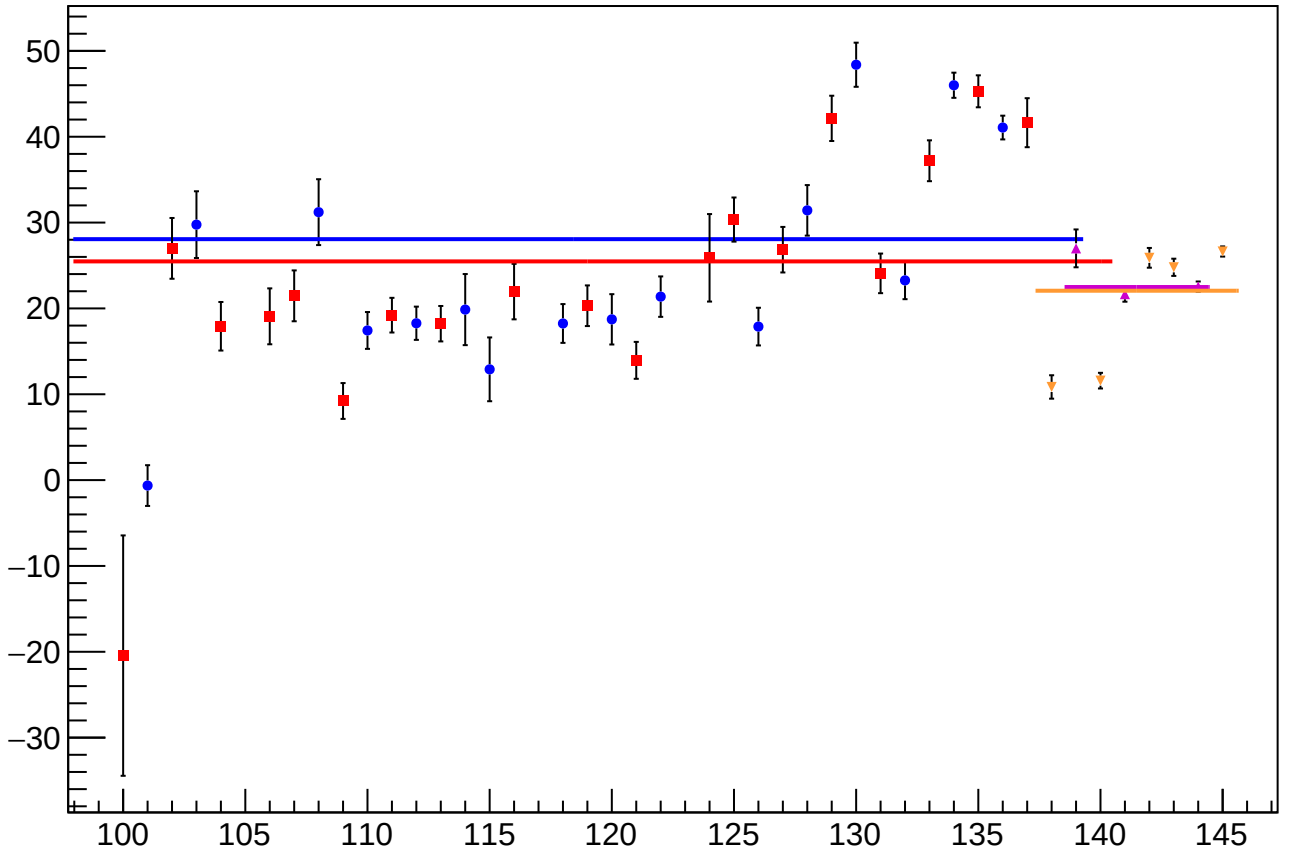
Left: -64.982+/-0.339 $\chi^2$/NDF: 4256.0/7

Right: -92.143+/-0.382 $\chi^2$/NDF: 1283.5/34

In: -79.426+/-0.378 $\chi^2$/NDF:3729.1/18

Out: -74.935+/-0.341 $\chi^2$/NDF:4563.4/23

All: -76.949+/-0.253 $\chi^2$/NDF: 8370.2/42




Right In: 28.068+/-0.569 $\chi^2$/NDF: 583.1/15

Left Out: 22.061+/-0.397 $\chi^2$/NDF:277.4/4

Right Out: 25.477+/-0.590 $\chi^2$/NDF: 354.6/18

Left In: 22.492+/-0.479 $\chi^2$/NDF:5.1/2

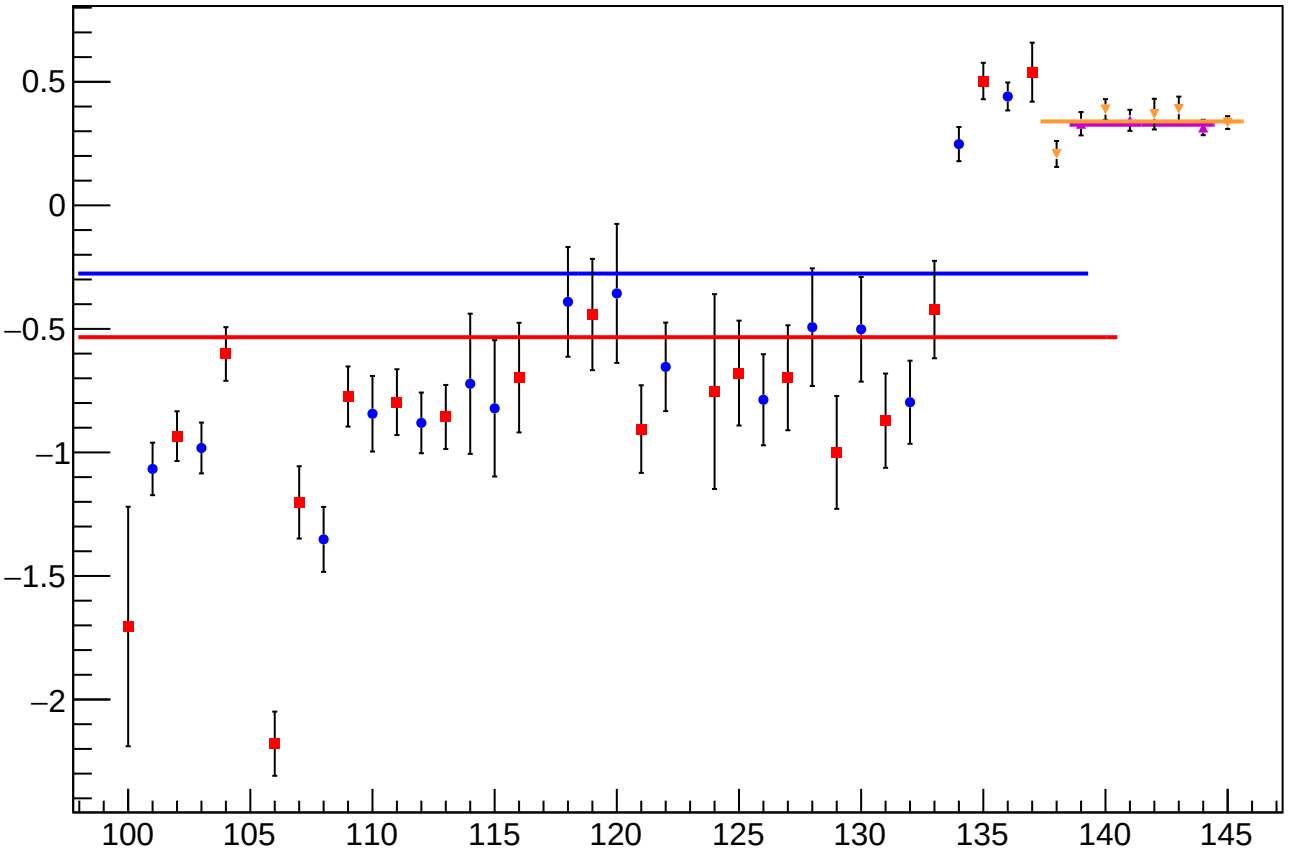
Left: 22.237+/-0.306 $\chi^2$/NDF: 283.0/7

Right: 26.821+/-0.410 $\chi^2$/NDF: 947.7/34

In: 24.803+/-0.366 $\chi^2$/NDF:644.4/18

Out: 23.125+/-0.330 $\chi^2$/NDF:655.1/23

All: 23.876+/-0.245 $\chi^2$/NDF: 1311.1/42




Right In: -0.276+/-0.031 $\chi^2$/NDF: 455.6/15

Left Out: 0.340+/-0.018 $\chi^2$/NDF:8.8/4

Right Out: -0.534+/-0.033 $\chi^2$/NDF: 510.3/18

Left In: 0.326+/-0.022 $\chi^2$/NDF:0.3/2

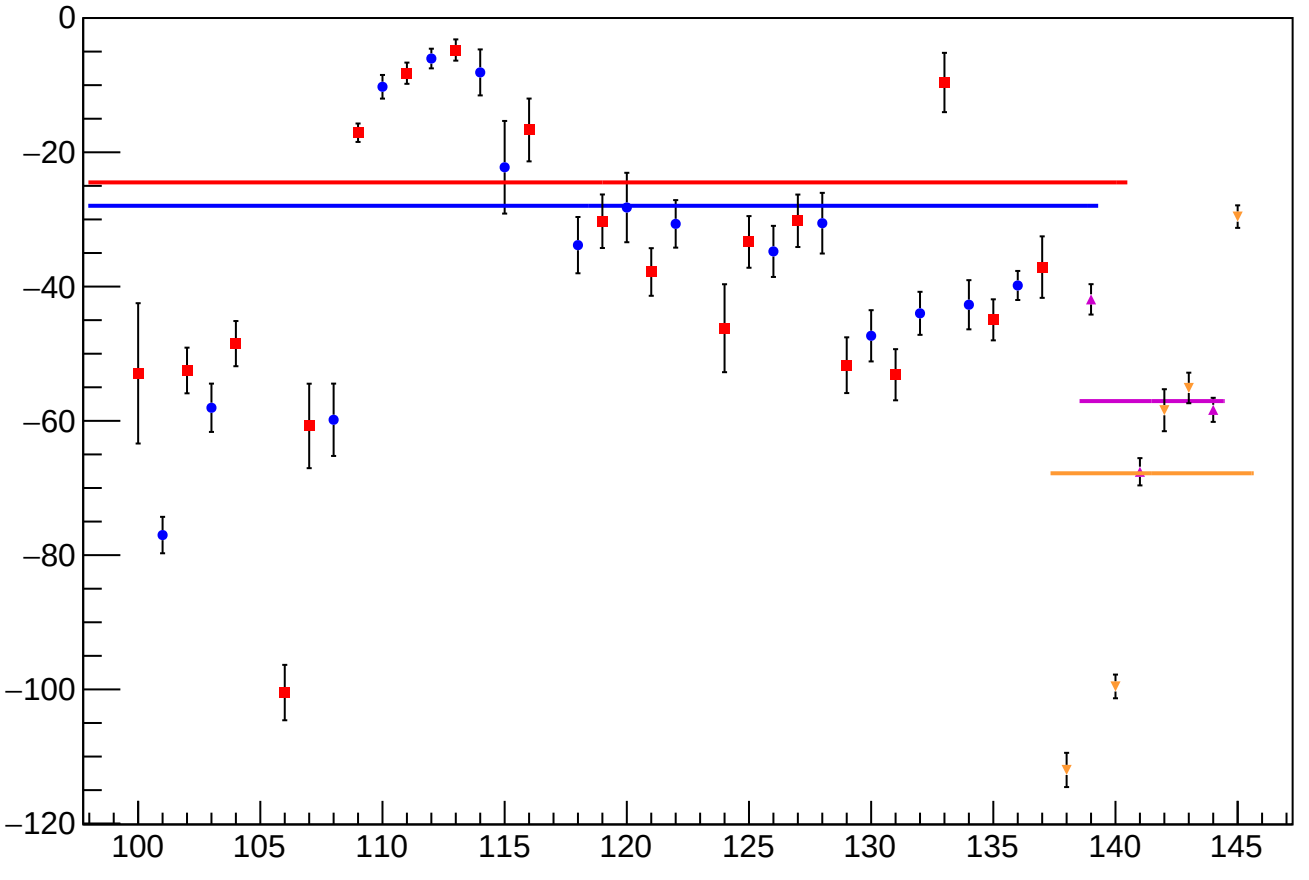
Left: 0.334+/-0.014 $\chi^2$/NDF: 9.4/7

Right: -0.396+/-0.022 $\chi^2$/NDF: 998.8/34

In: 0.119+/-0.018 $\chi^2$/NDF:709.7/18

Out: 0.138+/-0.016 $\chi^2$/NDF:1062.4/23

All: 0.130+/-0.012 $\chi^2$/NDF: 1772.7/42




Right In: -27.967+/-0.728 $\chi^2$/NDF: 894.7/15

Left Out: -67.808+/-0.943 $\chi^2$/NDF:1182.3/4

Right Out: -24.485+/-0.663 $\chi^2$/NDF: 989.7/18

Left In: -57.056+/-1.156 $\chi^2$/NDF:72.2/2

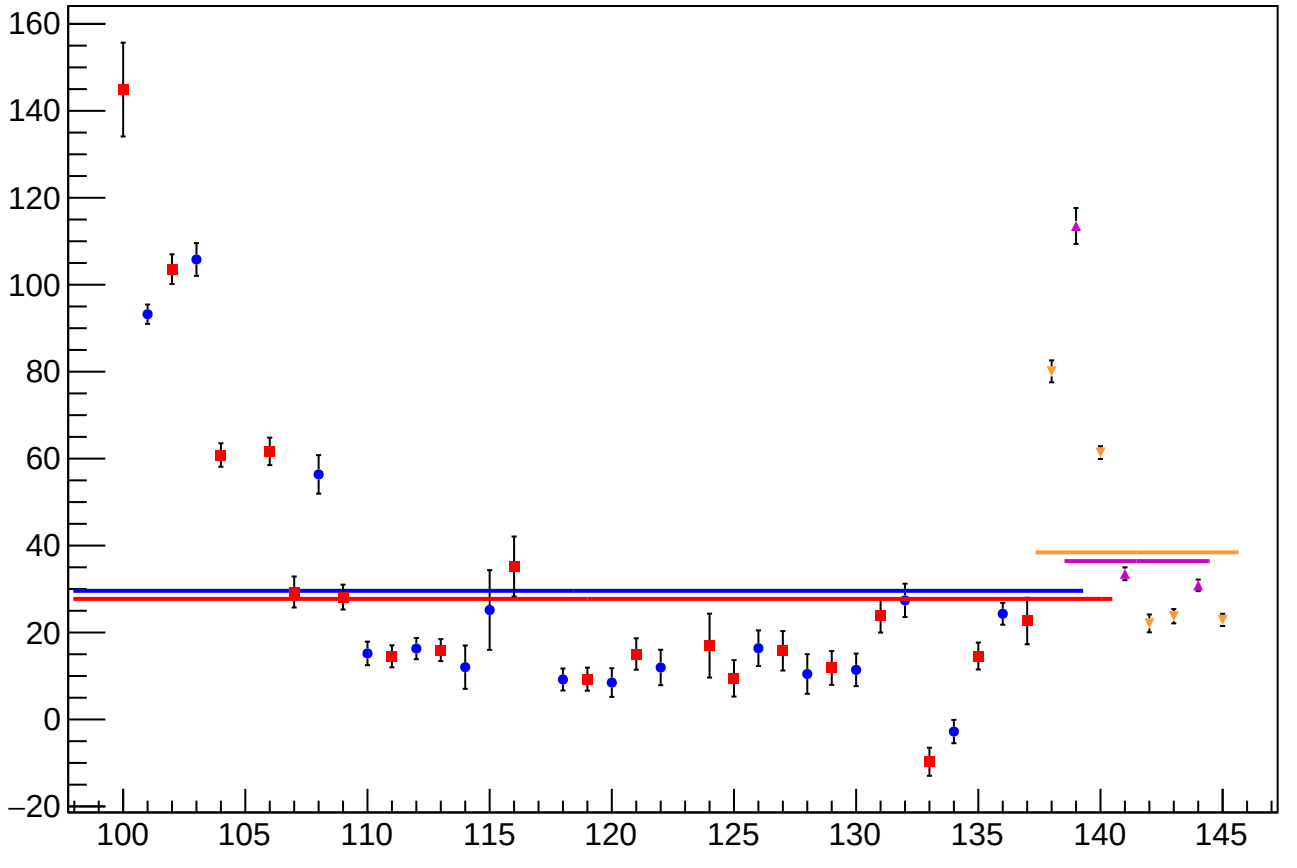
Left: -63.512+/-0.731 $\chi^2$/NDF: 1306.4/7

Right: -26.064+/-0.490 $\chi^2$/NDF: 1896.8/34

In: -36.222+/-0.616 $\chi^2$/NDF:1420.4/18

Out: -38.814+/-0.542 $\chi^2$/NDF:3584.8/23

All: -37.682+/-0.407 $\chi^2$/NDF: 5015.2/42




Right In: 29.594+/-0.807 $\chi^2$/NDF: 1665.7/15

Left Out: 38.434+/-0.759 $\chi^2$/NDF:782.4/4

Right Out: 27.736+/-0.797 $\chi^2$/NDF: 1185.1/18

Left In: 36.426+/-0.962 $\chi^2$/NDF:367.7/2

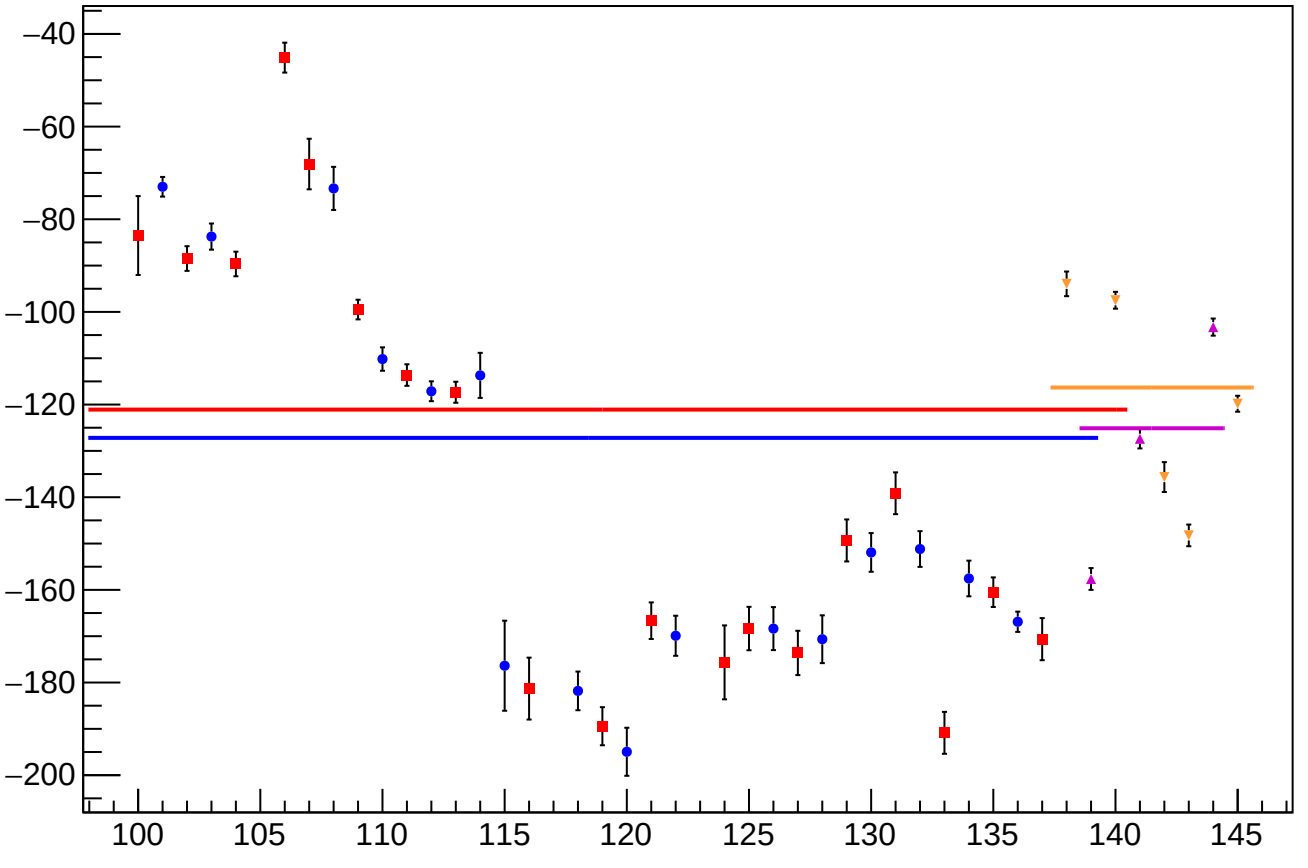
Left: 37.664+/-0.596 $\chi^2$/NDF: 1152.8/7

Right: 28.653+/-0.567 $\chi^2$/NDF: 2853.5/34

In: 32.416+/-0.618 $\chi^2$/NDF:2063.0/18

Out: 33.348+/-0.550 $\chi^2$/NDF:2062.0/23

All: 32.937+/-0.411 $\chi^2$/NDF: 4126.3/42




Right In: -127.190+/-0.829 $\chi^2$/NDF: 2178.2/15

Left Out: -116.318+/-0.971 $\chi^2$/NDF:404.5/4

Right Out: -121.086+/-0.798 $\chi^2$/NDF: 2397.3/18

Left In: -125.114+/-1.193 $\chi^2$/NDF:331.7/2

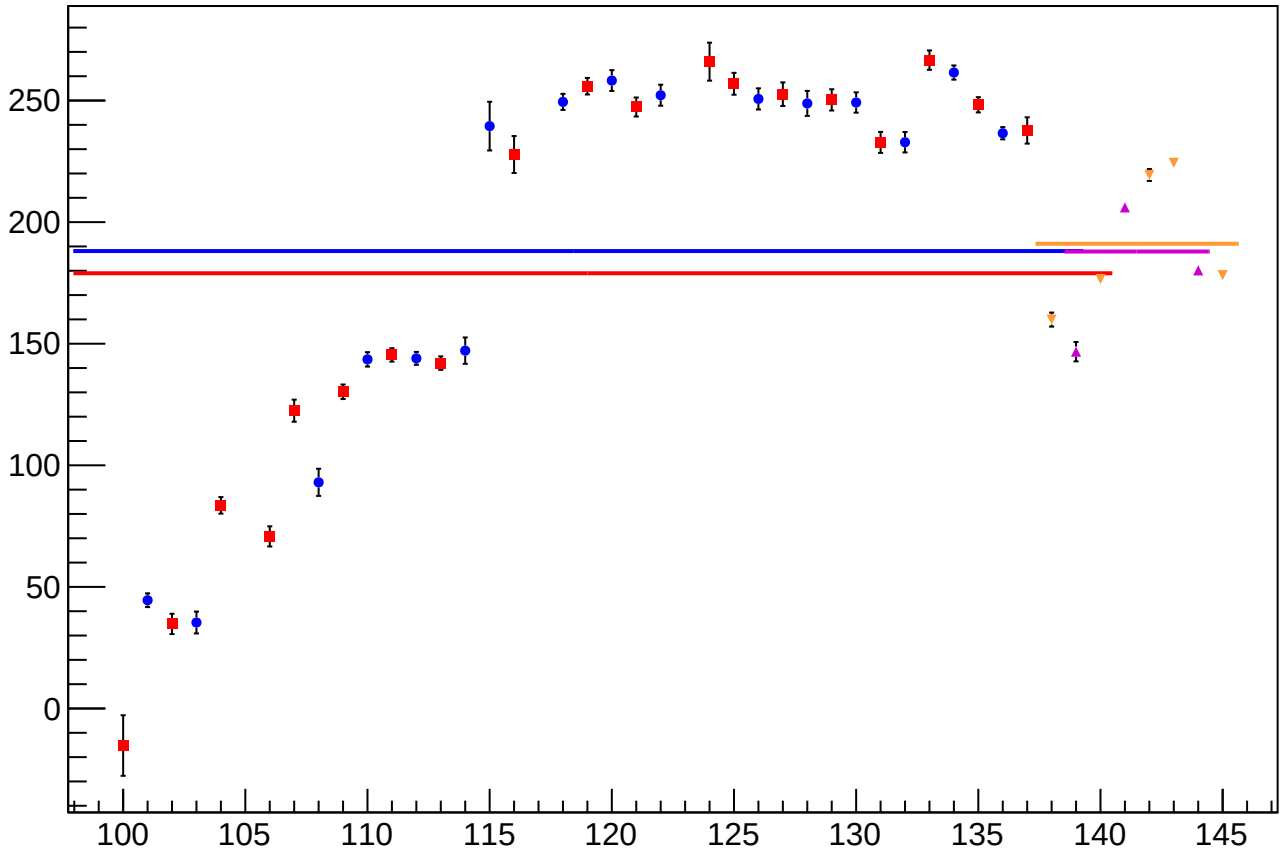
Left: -119.826+/-0.753 $\chi^2$/NDF: 768.9/7

Right: -124.019+/-0.575 $\chi^2$/NDF: 4603.6/34

In: -126.513+/-0.681 $\chi^2$/NDF:2511.9/18

Out: -119.166+/-0.616 $\chi^2$/NDF:2816.2/23

All: -122.475+/-0.457 $\chi^2$/NDF: 5392.1/42




Right In: 188.107+/-0.918 $\chi^2$/NDF: 7118.6/15

Left Out: 191.109+/-0.890 $\chi^2$/NDF:674.6/4

Right Out: 178.971+/-0.908 $\chi^2$/NDF: 6668.8/18

Left In: 187.916+/-1.119 $\chi^2$/NDF:237.8/2

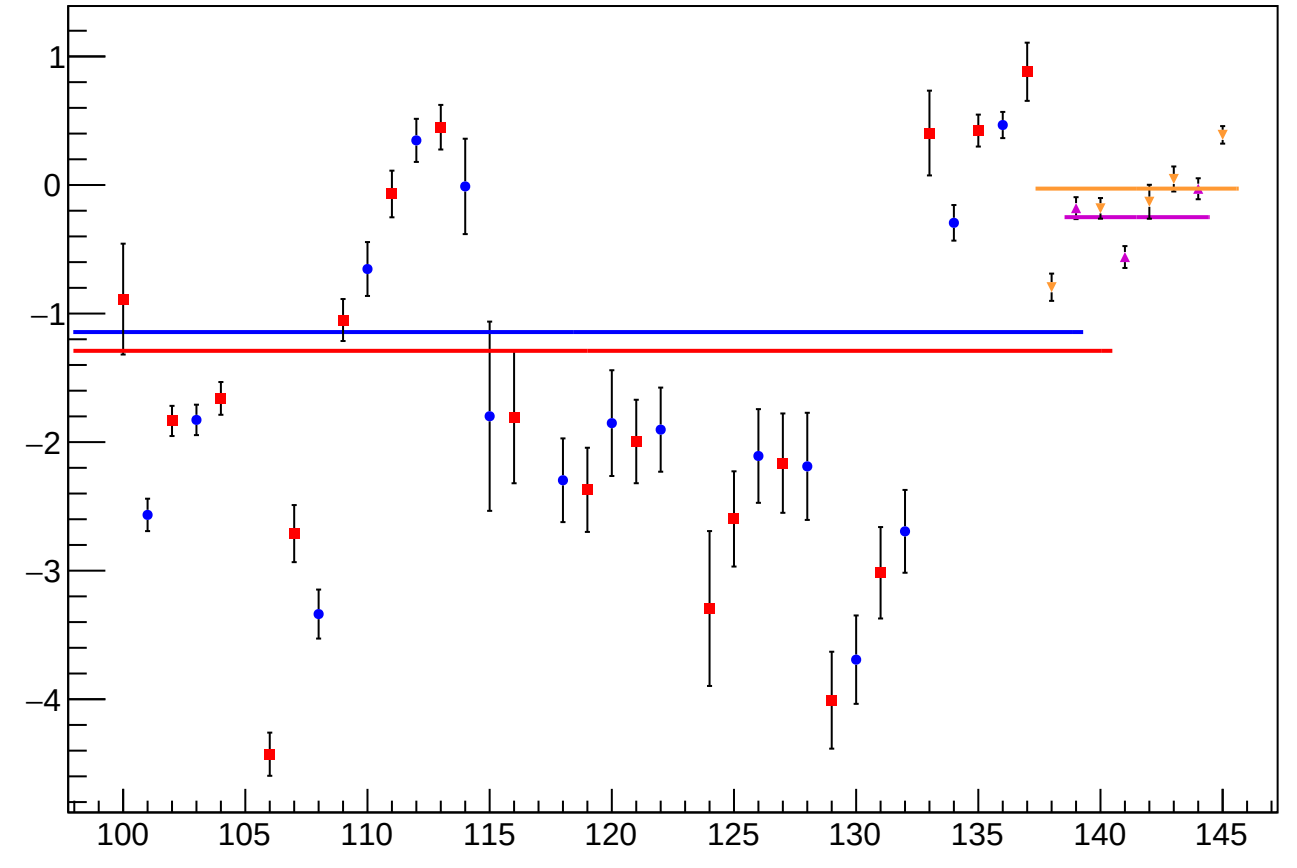
Left: 189.872+/-0.696 $\chi^2$/NDF: 917.4/7

Right: 183.489+/-0.646 $\chi^2$/NDF: 13837.5/34

In: 188.030+/-0.710 $\chi^2$/NDF:7356.4/18

Out: 185.164+/-0.636 $\chi^2$/NDF:7434.6/23

All: 186.440+/-0.473 $\chi^2$/NDF: 14800.1/42




Right In: -1.144+/-0.048 $\chi^2$/NDF: 787.4/15

Left Out: -0.028+/-0.040 $\chi^2$/NDF:94.8/4

Right Out: -1.290+/-0.047 $\chi^2$/NDF: 998.3/18

Left In: -0.250+/-0.048 $\chi^2$/NDF:21.3/2

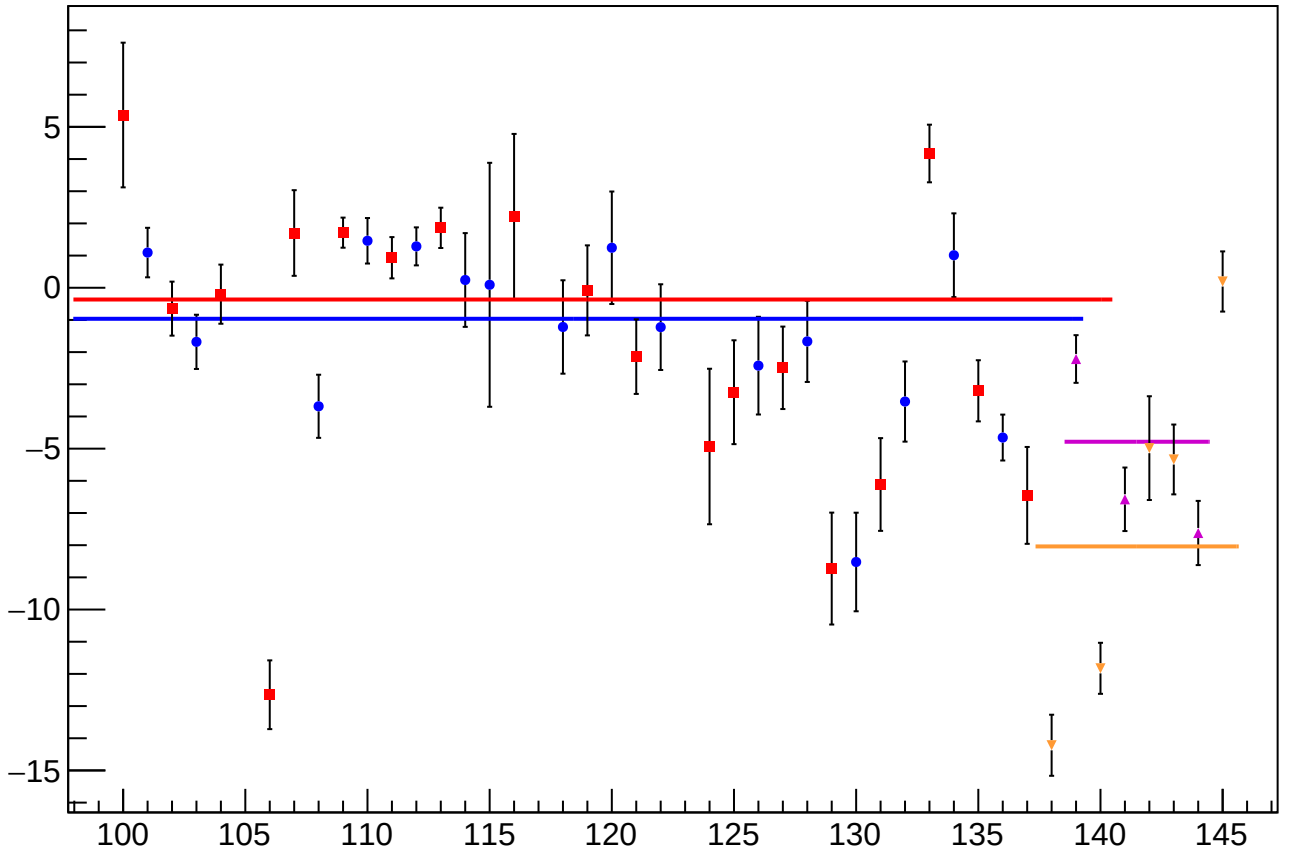
Left: -0.118+/-0.031 $\chi^2$/NDF: 128.6/7

Right: -1.218+/-0.034 $\chi^2$/NDF: 1790.3/34

In: -0.701+/-0.034 $\chi^2$/NDF:980.4/18

Out: -0.554+/-0.031 $\chi^2$/NDF:1505.7/23

All: -0.619+/-0.023 $\chi^2$/NDF: 2496.4/42




Right In: -0.964+/-0.253 $\chi^2$/NDF: 103.2/15

Left Out: -8.039+/-0.444 $\chi^2$/NDF:152.5/4

Right Out: -0.365+/-0.224 $\chi^2$/NDF: 280.6/18

Left In: -4.786+/-0.509 $\chi^2$/NDF:23.4/2

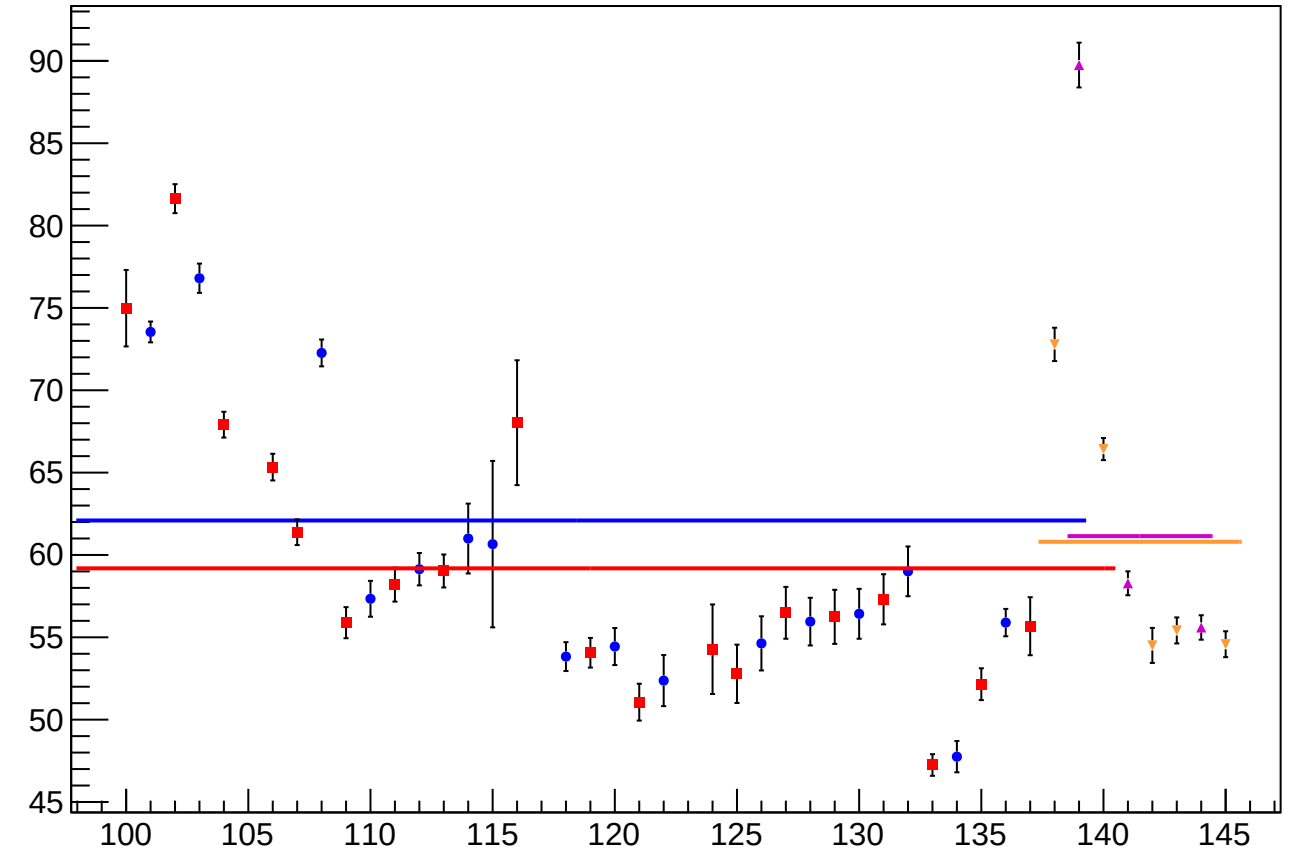
Left: -6.635+/-0.335 $\chi^2$/NDF: 199.1/7

Right: -0.628+/-0.168 $\chi^2$/NDF: 386.9/34

In: -1.721+/-0.227 $\chi^2$/NDF:171.7/18

Out: -1.920+/-0.200 $\chi^2$/NDF:671.5/23

All: -1.833+/-0.150 $\chi^2$/NDF: 843.6/42




Right In: 62.094+/-0.265 $\chi^2$/NDF: 1301.3/15

Left Out: 60.800+/-0.370 $\chi^2$/NDF:355.0/4

Right Out: 59.188+/-0.244 $\chi^2$/NDF: 1402.1/18

Left In: 61.144+/-0.485 $\chi^2$/NDF:514.4/2

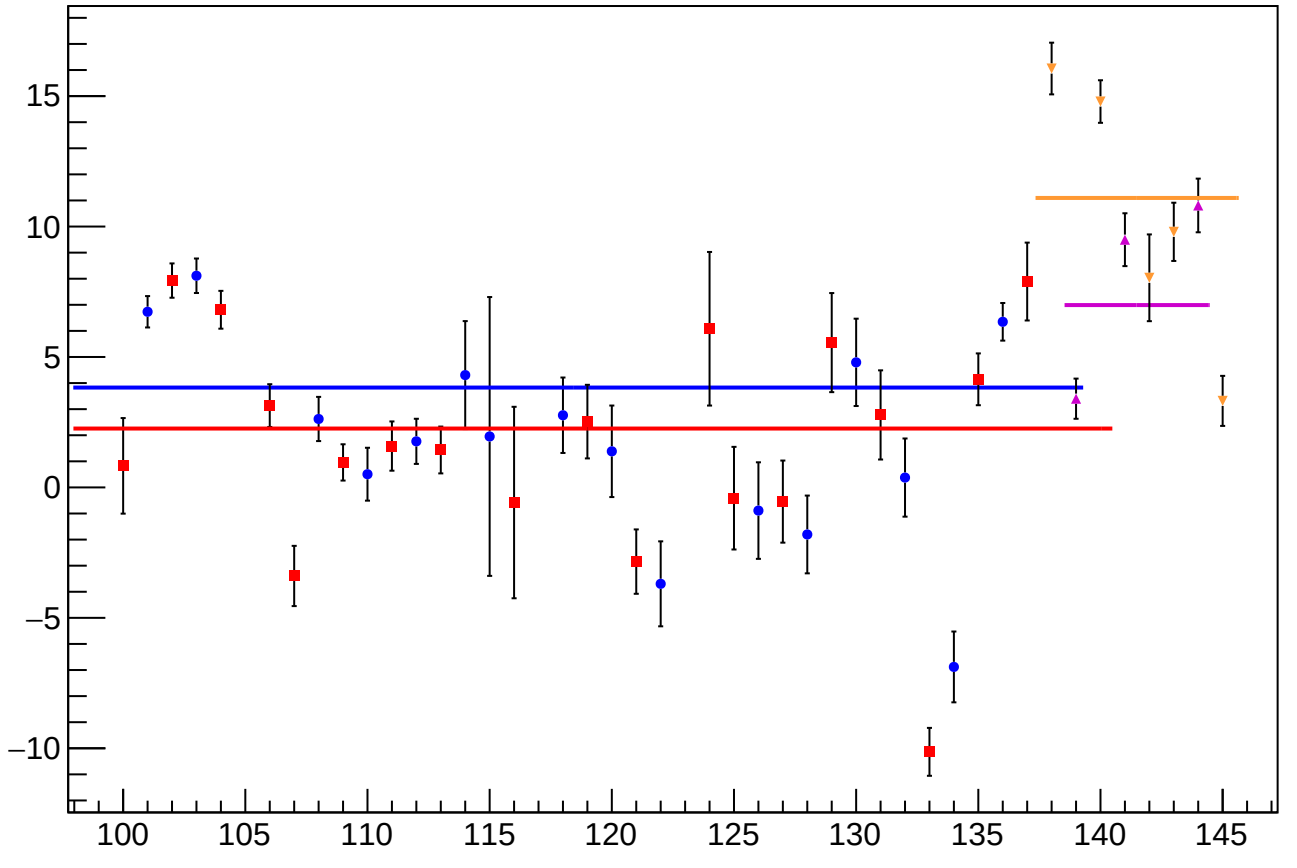
Left: 60.926+/-0.294 $\chi^2$/NDF: 869.6/7

Right: 60.518+/-0.180 $\chi^2$/NDF: 2768.4/34

In: 61.875+/-0.233 $\chi^2$/NDF:1818.6/18

Out: 59.676+/-0.204 $\chi^2$/NDF:1770.4/23

All: 60.629+/-0.153 $\chi^2$/NDF: 3639.5/42




Right In: 3.828+/-0.265 $\chi^2$/NDF: 208.6/15

Left Out: 11.096+/-0.458 $\chi^2$/NDF:116.1/4

Right Out: 2.257+/-0.246 $\chi^2$/NDF: 371.9/18

Left In: 6.990+/-0.527 $\chi^2$/NDF:41.6/2

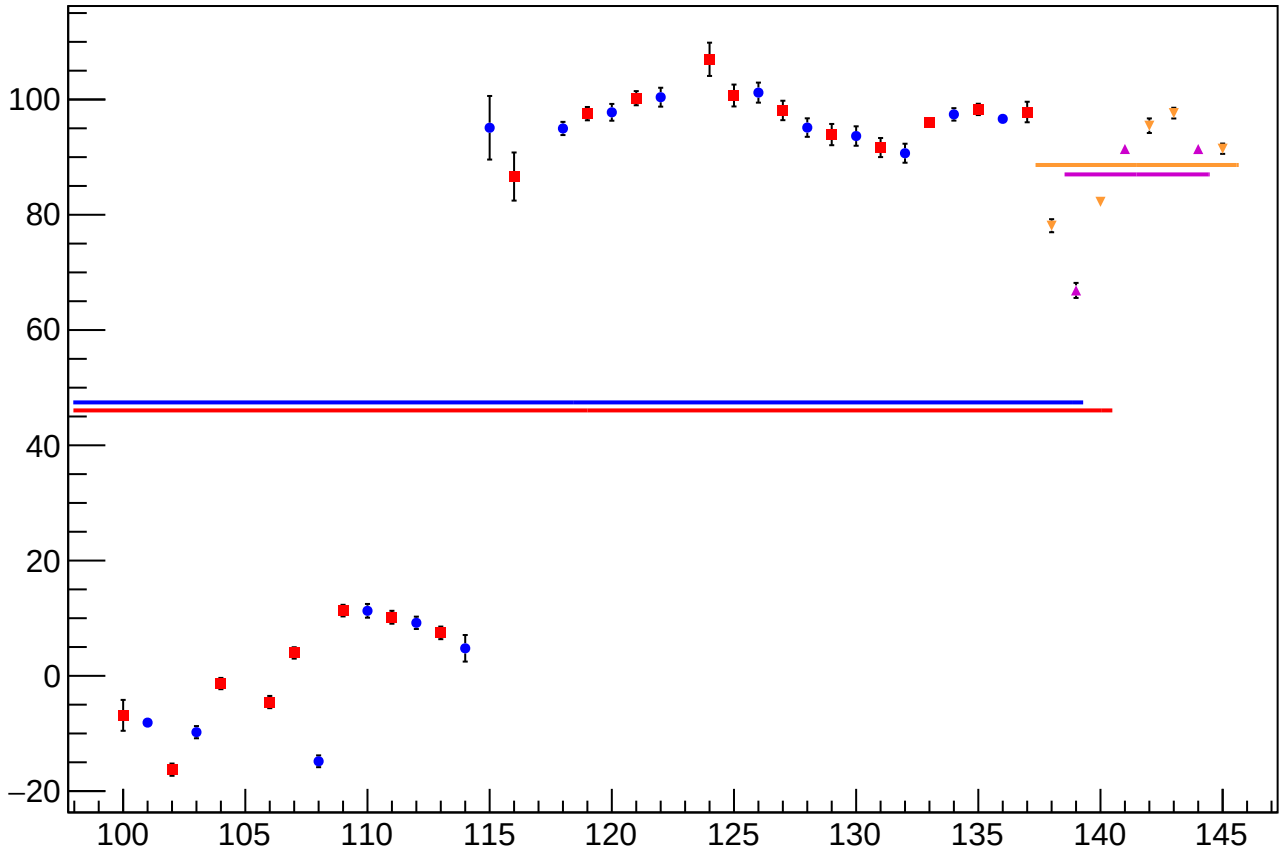
Left: 9.329+/-0.345 $\chi^2$/NDF: 192.3/7

Right: 2.985+/-0.181 $\chi^2$/NDF: 599.4/34

In: 4.468+/-0.237 $\chi^2$/NDF:279.0/18

Out: 4.243+/-0.217 $\chi^2$/NDF:777.1/23

All: 4.346+/-0.160 $\chi^2$/NDF: 1056.5/42




Right In: 47.443+/-0.308 $\chi^2$/NDF: 26886.9/15

Left Out: 88.638+/-0.432 $\chi^2$/NDF:282.2/4

Right Out: 46.053+/-0.284 $\chi^2$/NDF: 28897.8/18

Left In: 87.002+/-0.553 $\chi^2$/NDF:289.9/2

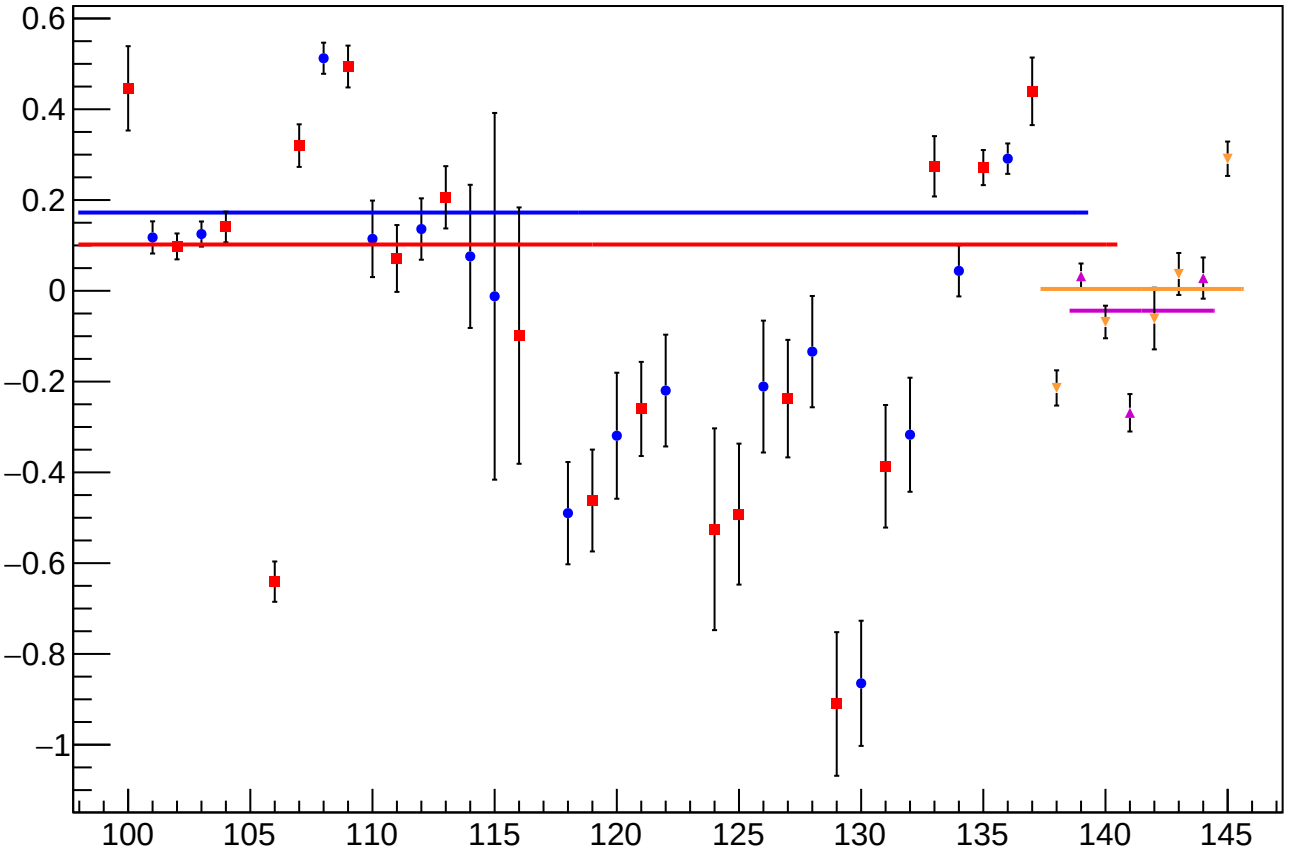
Left: 88.018+/-0.340 $\chi^2$/NDF: 577.5/7

Right: 46.693+/-0.209 $\chi^2$/NDF: 55795.7/34

In: 56.804+/-0.269 $\chi^2$/NDF:31078.9/18

Out: 58.933+/-0.238 $\chi^2$/NDF:35959.5/23

All: 58.001+/-0.178 $\chi^2$/NDF: 67073.6/42




Right In: 0.172+/-0.014 $\chi^2$/NDF: 265.0/15

Left Out: 0.004+/-0.019 $\chi^2$/NDF:94.5/4

Right Out: 0.102+/-0.013 $\chi^2$/NDF: 558.7/18

Left In: -0.044+/-0.021 $\chi^2$/NDF:39.6/2

Left: -0.018+/-0.014 $\chi^2$/NDF: 137.1/7

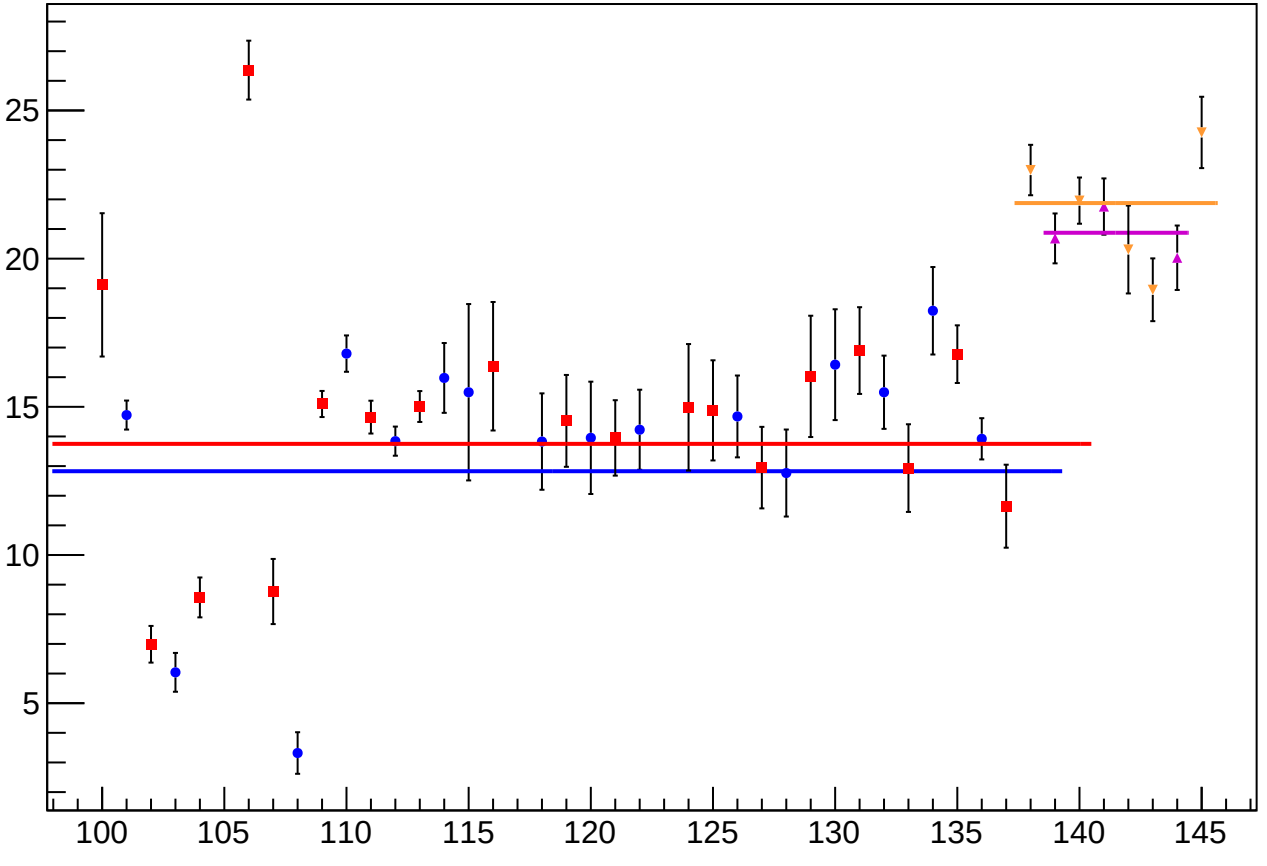
Right: 0.135+/-0.010 $\chi^2$/NDF: 836.7/34

In: 0.103+/-0.012 $\chi^2$/NDF:379.4/18

Out: 0.069+/-0.011 $\chi^2$/NDF:671.1/23

All: 0.085+/-0.008 $\chi^2$/NDF: 1055.1/42

# reg_asym_sam6_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 12.827+/-0.214 $\chi^2$/NDF: 388.0/15

Left Out: 21.875+/-0.444 $\chi^2$/NDF:14.4/4

Right Out: 13.750+/-0.204 $\chi^2$/NDF: 404.0/18

Left In: 20.873+/-0.545 $\chi^2$/NDF:1.5/2

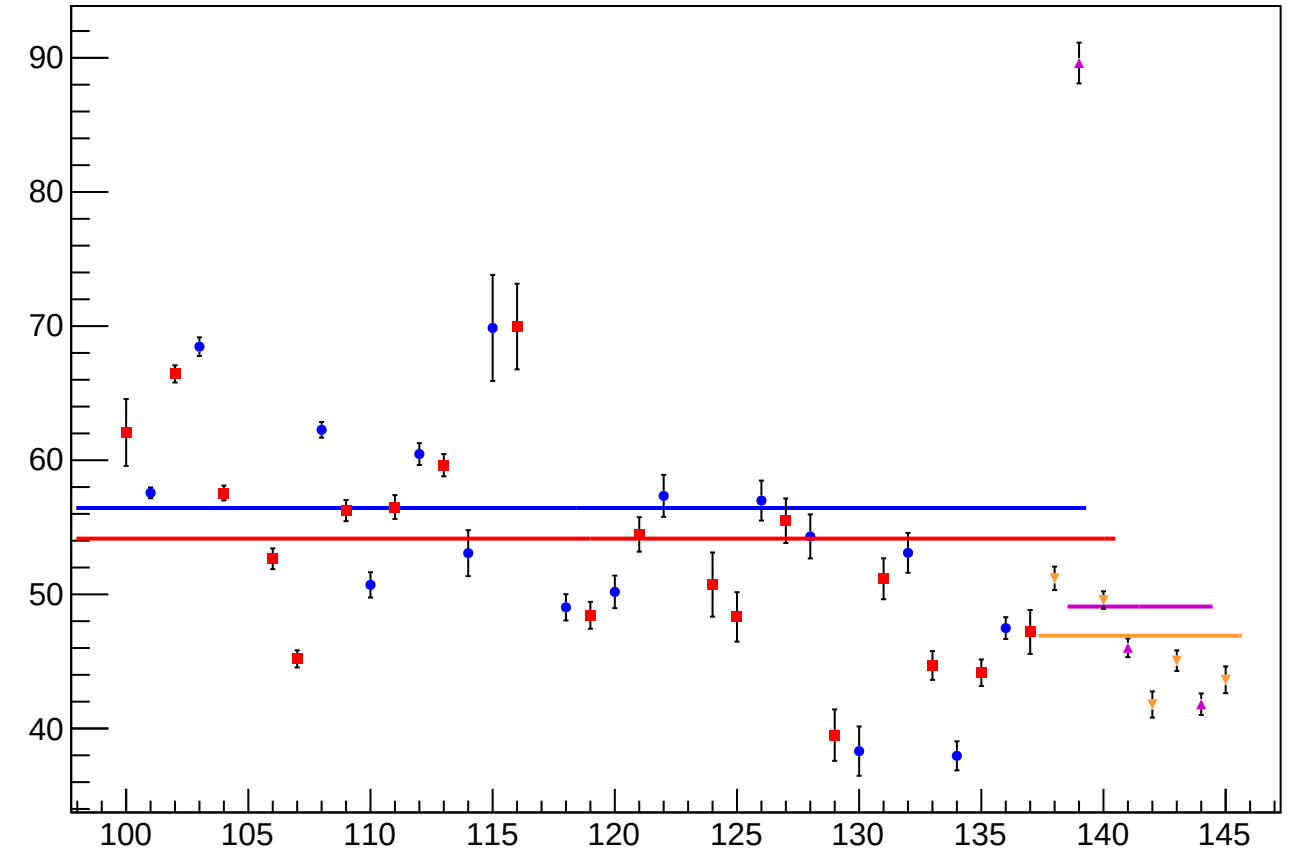
Left: 21.475+/-0.344 $\chi^2$/NDF: 17.9/7

Right: 13.311+/-0.148 $\chi^2$/NDF: 801.7/34

In: 13.903+/-0.199 $\chi^2$/NDF:578.3/18

Out: 15.166+/-0.185 $\chi^2$/NDF:694.4/23

All: 14.579+/-0.136 $\chi^2$/NDF: 1294.2/42




Right In: 56.438+/-0.222 $\chi^2$/NDF: 1088.0/15

Left Out: 46.914+/-0.367 $\chi^2$/NDF:84.8/4

Right Out: 54.156+/-0.225 $\chi^2$/NDF: 1006.6/18

Left In: 49.090+/-0.497 $\chi^2$/NDF:815.1/2

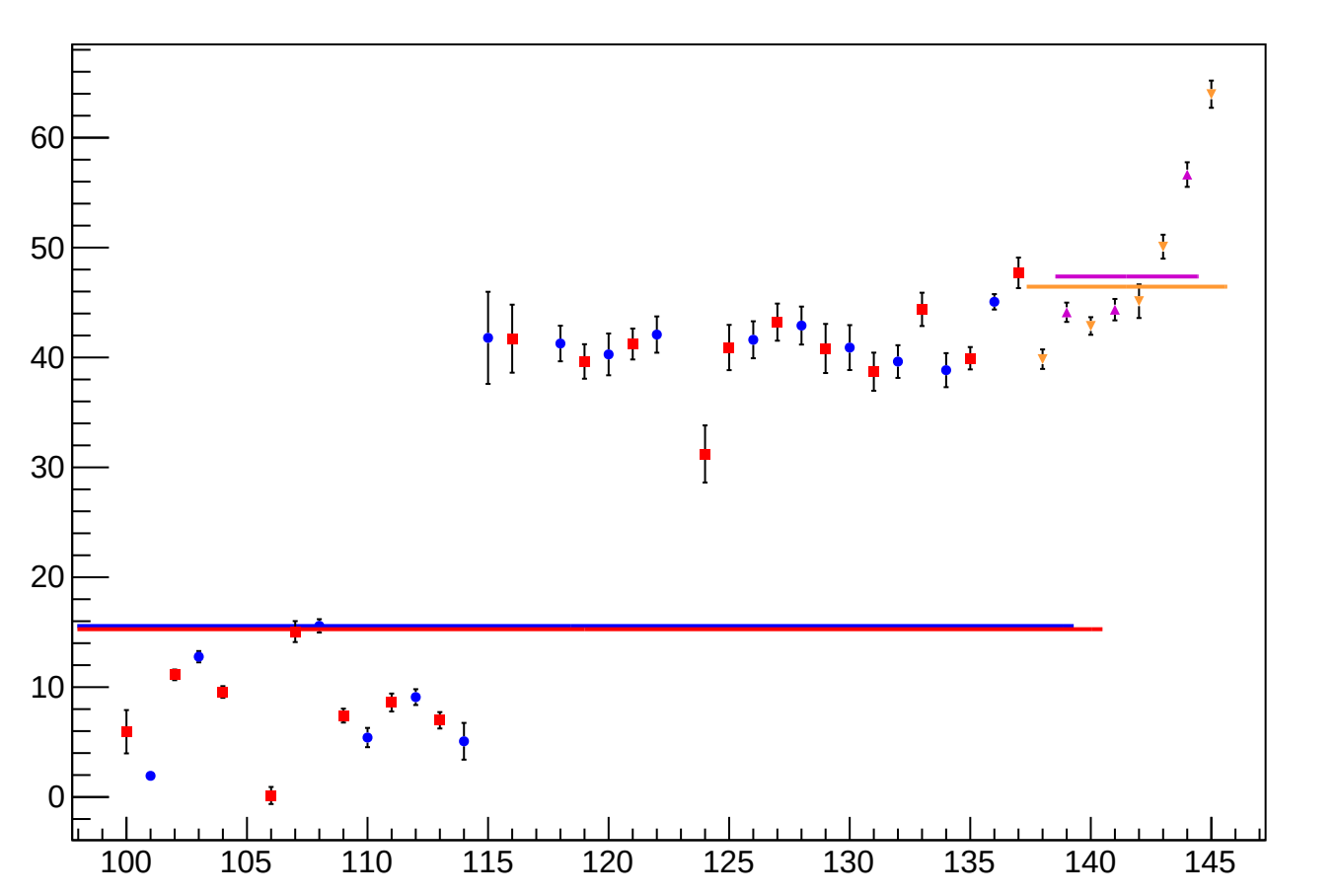
Left: 47.682+/-0.295 $\chi^2$/NDF: 912.3/7

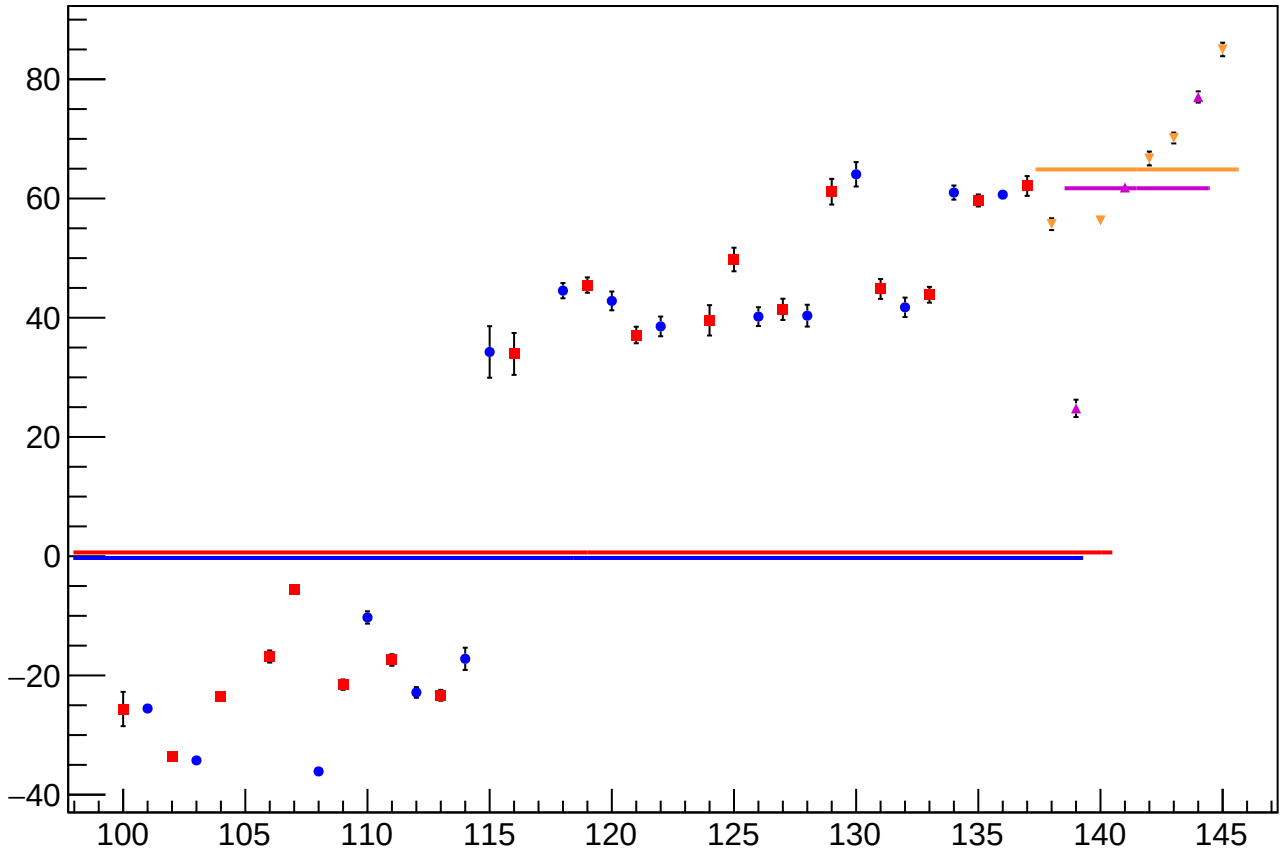
Right: 55.311+/-0.158 $\chi^2$/NDF: 2146.9/34

In: 55.219+/-0.203 $\chi^2$/NDF:2085.2/18

Out: 52.186+/-0.192 $\chi^2$/NDF:1374.5/23

All: 53.618+/-0.139 $\chi^2$/NDF: 3578.0/42


reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected
60
50
40
30
20
10
0
100
105
110
115
120
125
130
135
140
145
Right In: 15.561+/-0.214 χ²/NDF: 5176.0/15
Left Out: 46.441+/-0.459 χ²/NDF:287.0/4
Right Out: 15.272+/-0.219 χ²/NDF: 3873.0/18
Left In: 47.367+/-0.563 χ²/NDF:92.0/2
Left: 46.811+/-0.356 χ²/NDF: 380.7/7
Right: 15.420+/-0.153 χ²/NDF: 9050.0/34
In: 19.572+/-0.200 χ²/NDF:8054.0/18
Out: 21.057+/-0.198 χ²/NDF:7914.8/23
All: 20.323+/-0.141 χ²/NDF: 15996.7/42




Right In: -0.296+/-0.261 $\chi^2$/NDF: 21030.9/15

Left Out: 64.875+/-0.431 $\chi^2$/NDF:555.6/4

Right Out: 0.633+/-0.264 $\chi^2$/NDF: 16028.1/18

Left In: 61.717+/-0.572 $\chi^2$/NDF:907.9/2

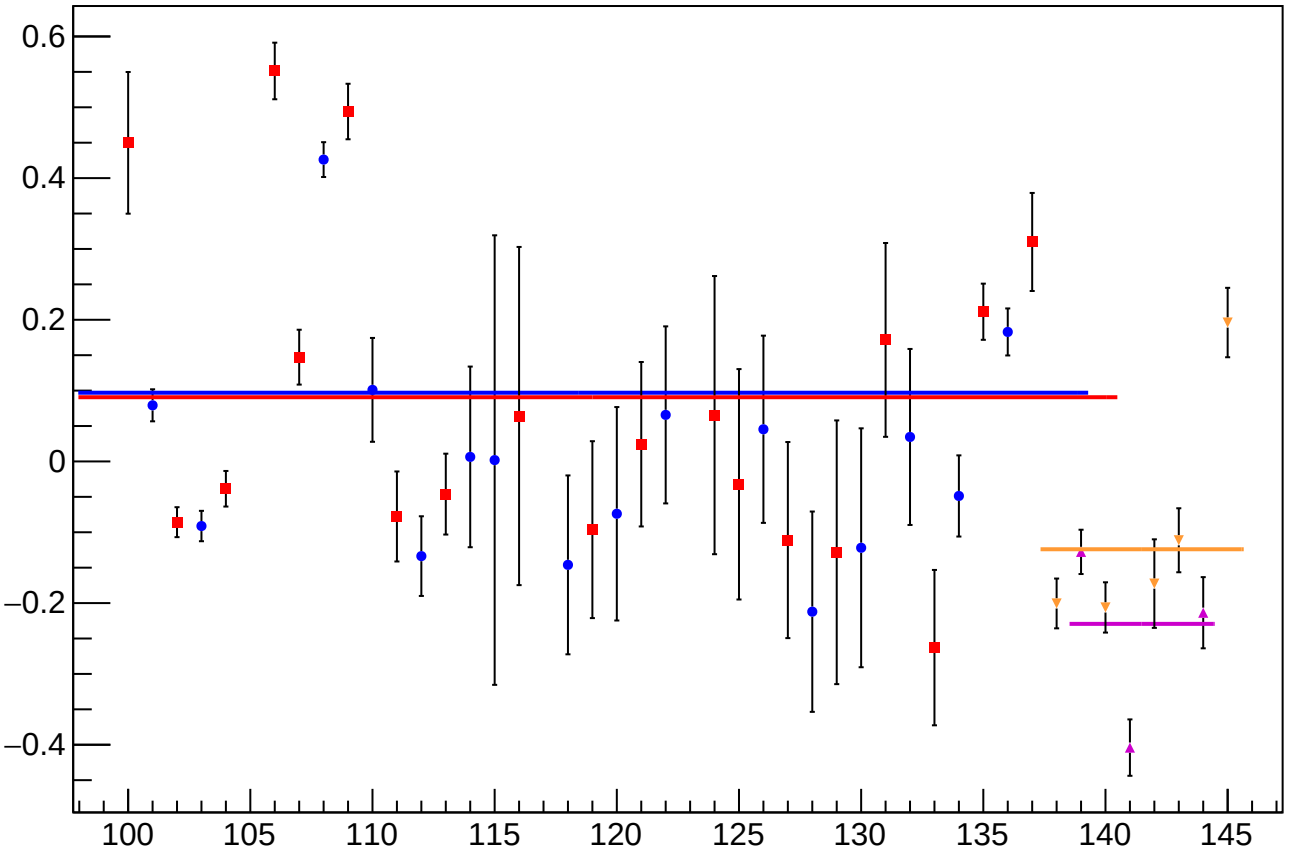
Left: 63.730+/-0.344 $\chi^2$/NDF: 1483.0/7

Right: 0.165+/-0.186 $\chi^2$/NDF: 37065.2/34

In: 10.426+/-0.238 $\chi^2$/NDF:31669.2/18

Out: 18.110+/-0.225 $\chi^2$/NDF:32740.6/23

All: 14.480+/-0.163 $\chi^2$/NDF: 64961.0/42




Right In: 0.097+/-0.011 $\chi^2$/NDF: 299.1/15

Left Out: -0.124+/-0.019 $\chi^2$/NDF:53.4/4

Right Out: 0.091+/-0.011 $\chi^2$/NDF: 399.5/18

Left In: -0.229+/-0.022 $\chi^2$/NDF:29.9/2

Left: -0.169+/-0.014 $\chi^2$/NDF: 96.4/7

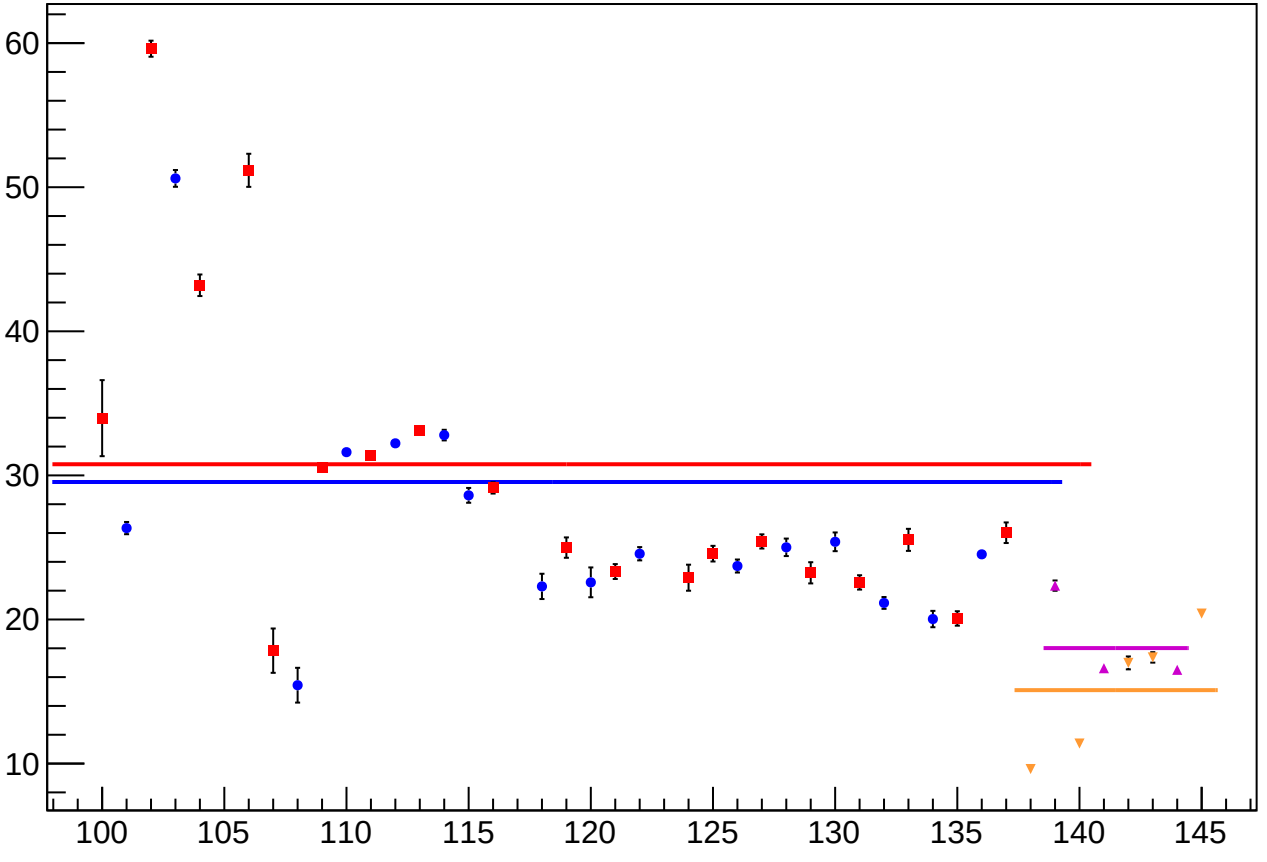
Right: 0.094+/-0.008 $\chi^2$/NDF: 698.7/34

In: 0.030+/-0.010 $\chi^2$/NDF:502.6/18

Out: 0.034+/-0.010 $\chi^2$/NDF:546.6/23

All: 0.032+/-0.007 $\chi^2$/NDF: 1049.3/42

# reg_asym_sam7_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 29.542+/-0.092 $\chi^2$/NDF: 3372.2/15

Left Out: 15.096+/-0.144 $\chi^2$/NDF:895.1/4

Right Out: 30.774+/-0.080 $\chi^2$/NDF: 5079.2/18

Left In: 18.015+/-0.179 $\chi^2$/NDF:196.9/2

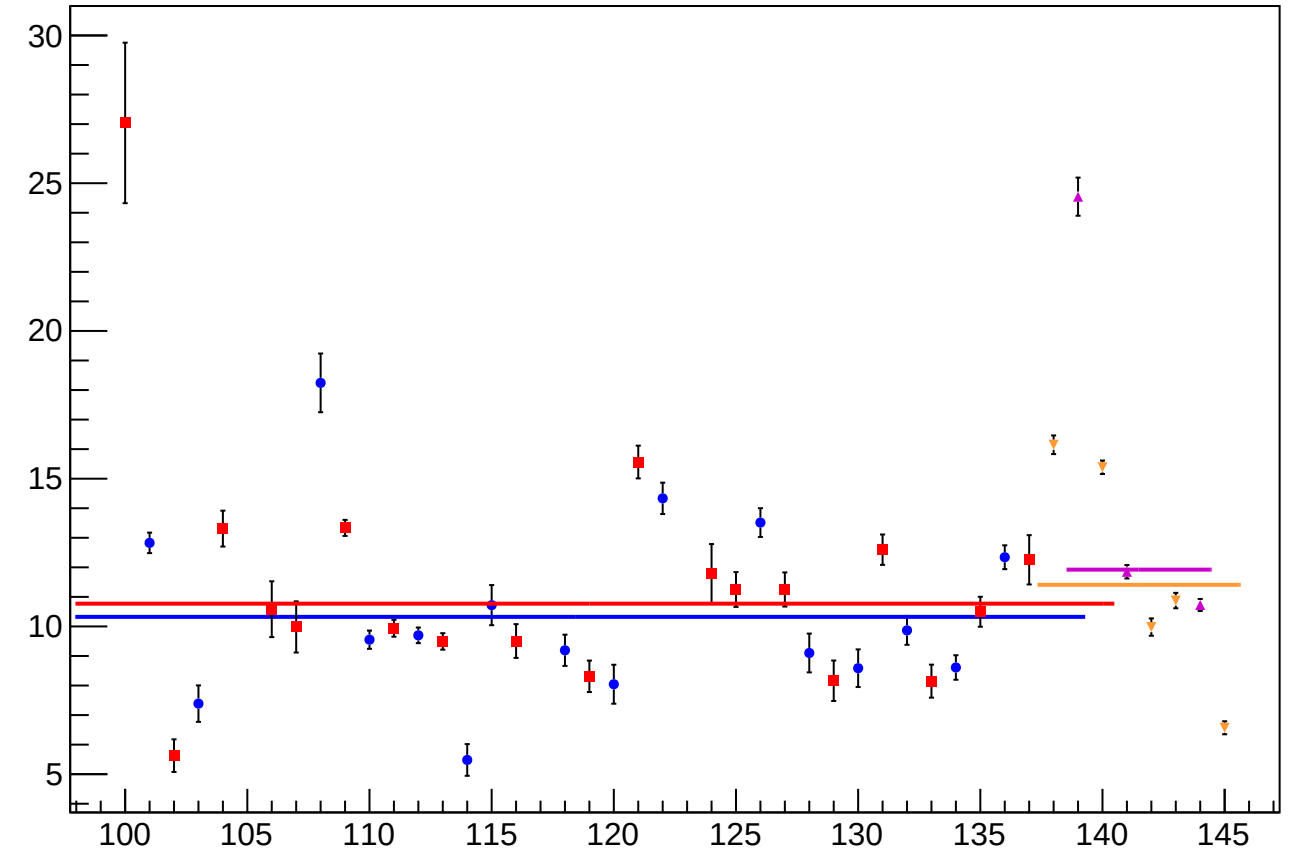
Left: 16.239+/-0.112 $\chi^2$/NDF: 1253.3/7

Right: 30.242+/-0.060 $\chi^2$/NDF: 8553.4/34

In: 27.140+/-0.082 $\chi^2$/NDF:6842.8/18

Out: 27.056+/-0.070 $\chi^2$/NDF:15047.0/23

All: 27.092+/-0.053 $\chi^2$/NDF: 21890.4/42




Right In: 10.324+/-0.114 $\chi^2$/NDF: 402.6/15

Left Out: 11.408+/-0.115 $\chi^2$/NDF:1037.9/4

Right Out: 10.771+/-0.113 $\chi^2$/NDF: 415.8/18

Left In: 11.922+/-0.148 $\chi^2$/NDF:417.0/2

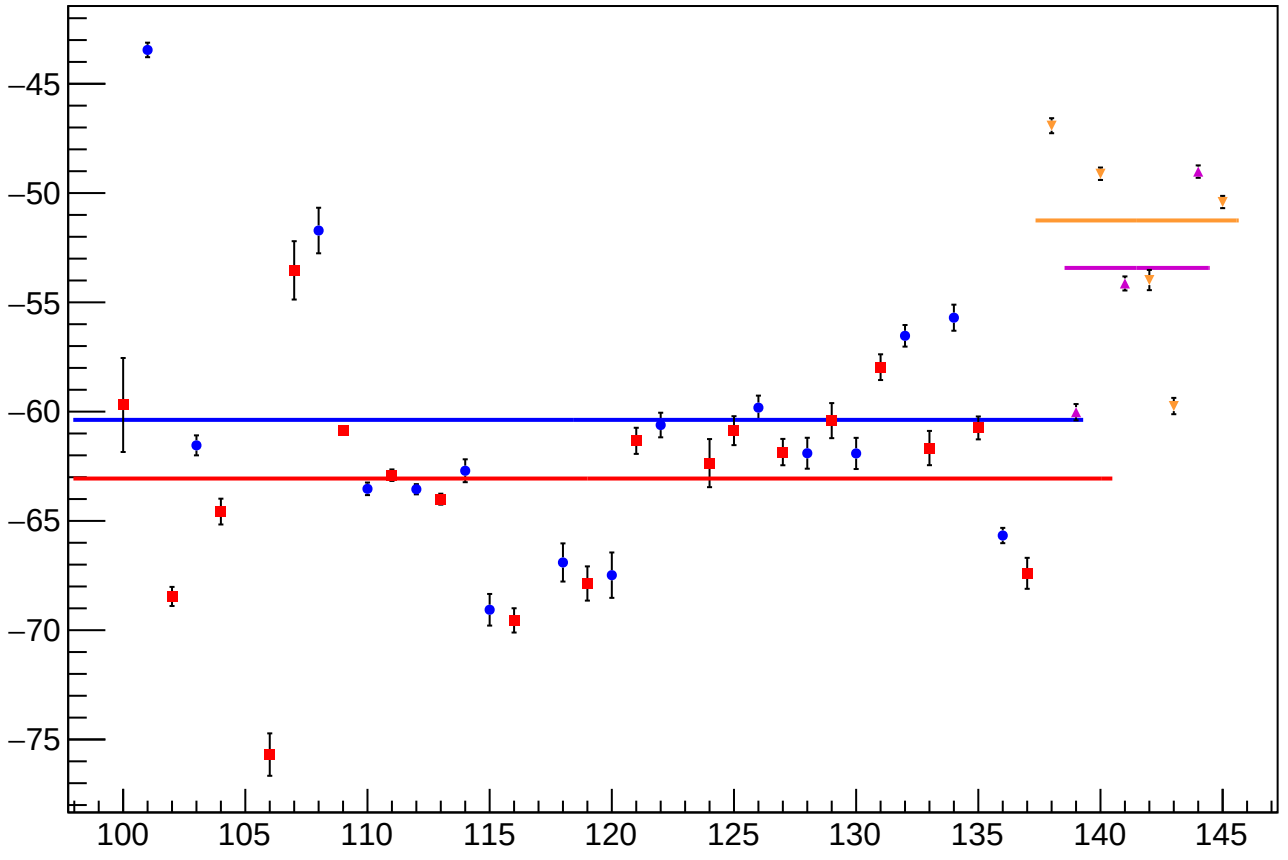
Left: 11.601+/-0.091 $\chi^2$/NDF: 1462.4/7

Right: 10.550+/-0.080 $\chi^2$/NDF: 826.2/34

In: 10.920+/-0.090 $\chi^2$/NDF:893.0/18

Out: 11.085+/-0.080 $\chi^2$/NDF:1469.4/23

All: 11.012+/-0.060 $\chi^2$/NDF: 2364.2/42




Right In: -60.377+/-0.113 $\chi^2$/NDF: 3597.6/15

Left Out: -51.254+/-0.148 $\chi^2$/NDF:777.1/4

Right Out: -63.061+/-0.107 $\chi^2$/NDF: 844.1/18

Left In: -53.425+/-0.185 $\chi^2$/NDF:559.4/2

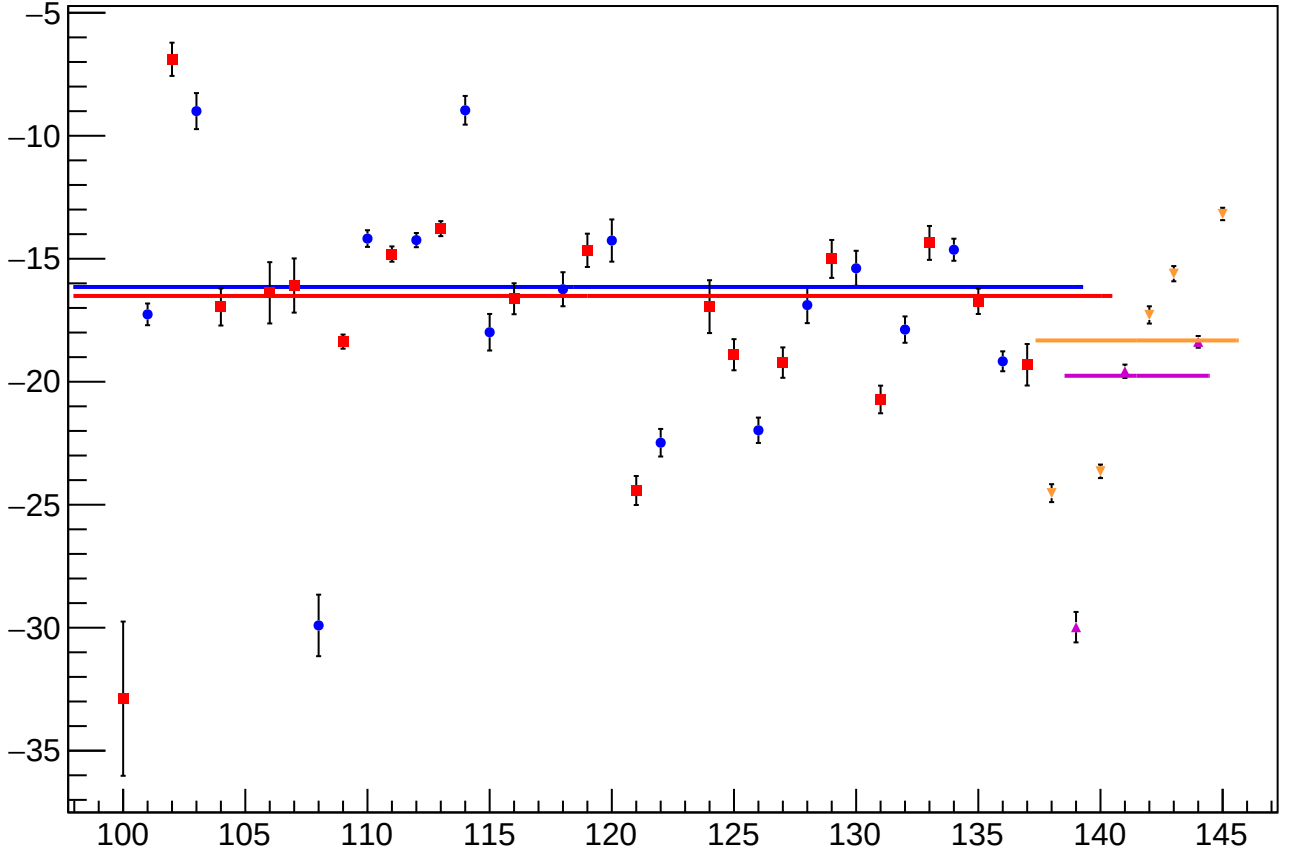
Left: -52.104+/-0.116 $\chi^2$/NDF: 1420.4/7

Right: -61.789+/-0.078 $\chi^2$/NDF: 4738.4/34

In: -58.488+/-0.096 $\chi^2$/NDF:5185.8/18

Out: -59.012+/-0.087 $\chi^2$/NDF:5778.0/23

All: -58.777+/-0.065 $\chi^2$/NDF: 10980.1/42




Right In: -16.147+/-0.127 $\chi^2$/NDF: 797.1/15

Left Out: -18.321+/-0.135 $\chi^2$/NDF:1164.3/4

Right Out: -16.512+/-0.125 $\chi^2$/NDF: 684.7/18

Left In: -19.757+/-0.172 $\chi^2$/NDF:306.3/2

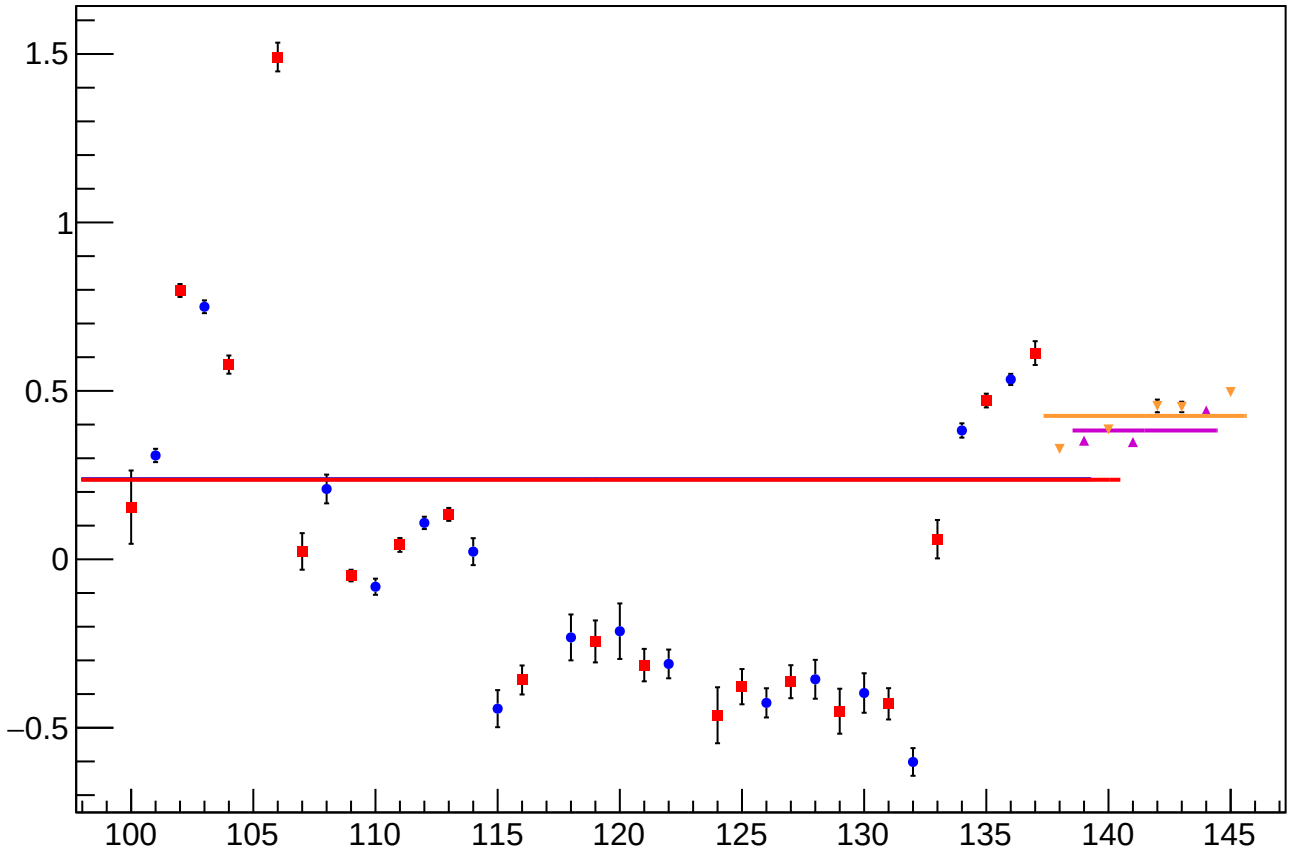
Left: -18.867+/-0.106 $\chi^2$/NDF: 1513.7/7

Right: -16.333+/-0.089 $\chi^2$/NDF: 1486.0/34

In: -17.420+/-0.102 $\chi^2$/NDF:1387.4/18

Out: -17.345+/-0.092 $\chi^2$/NDF:1946.0/23

All: -17.378+/-0.068 $\chi^2$/NDF: 3333.7/42




Right In: 0.238+/-0.007 $\chi^2$/NDF: 2632.9/15

Left Out: 0.426+/-0.006 $\chi^2$/NDF:105.6/4

Right Out: 0.236+/-0.007 $\chi^2$/NDF: 3595.0/18

Left In: 0.382+/-0.008 $\chi^2$/NDF:33.7/2

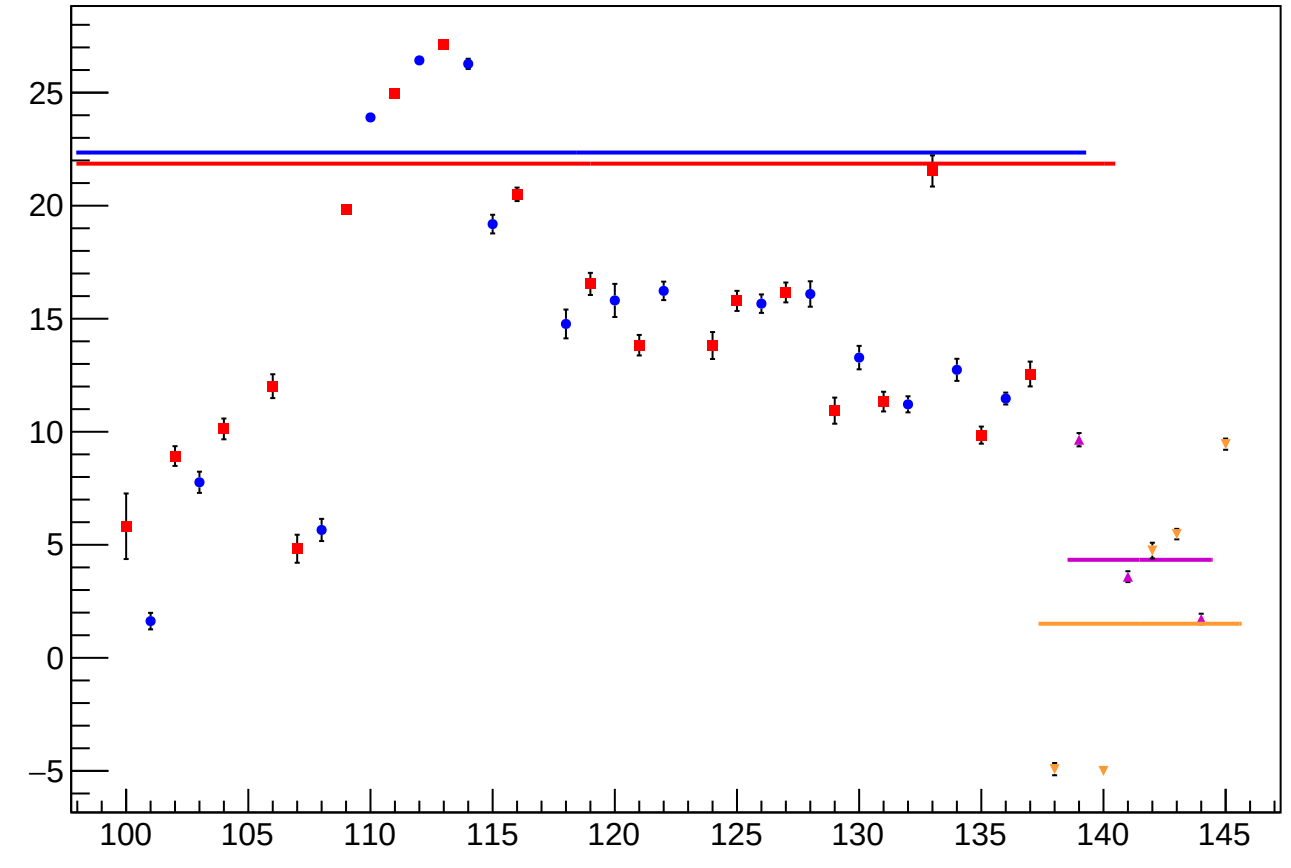
Left: 0.408+/-0.005 $\chi^2$/NDF: 159.2/7

Right: 0.237+/-0.005 $\chi^2$/NDF: 6227.9/34

In: 0.306+/-0.005 $\chi^2$/NDF:2863.1/18

Out: 0.344+/-0.005 $\chi^2$/NDF:4108.6/23

All: 0.327+/-0.003 $\chi^2$/NDF: 7003.0/42




Right In: 22.350+/-0.057 $\chi^2$/NDF: 12336.9/15

Left Out: 1.509+/-0.113 $\chi^2$/NDF:2896.1/4

Right Out: 21.859+/-0.046 $\chi^2$/NDF: 10692.4/18

Left In: 4.337+/-0.146 $\chi^2$/NDF:460.1/2

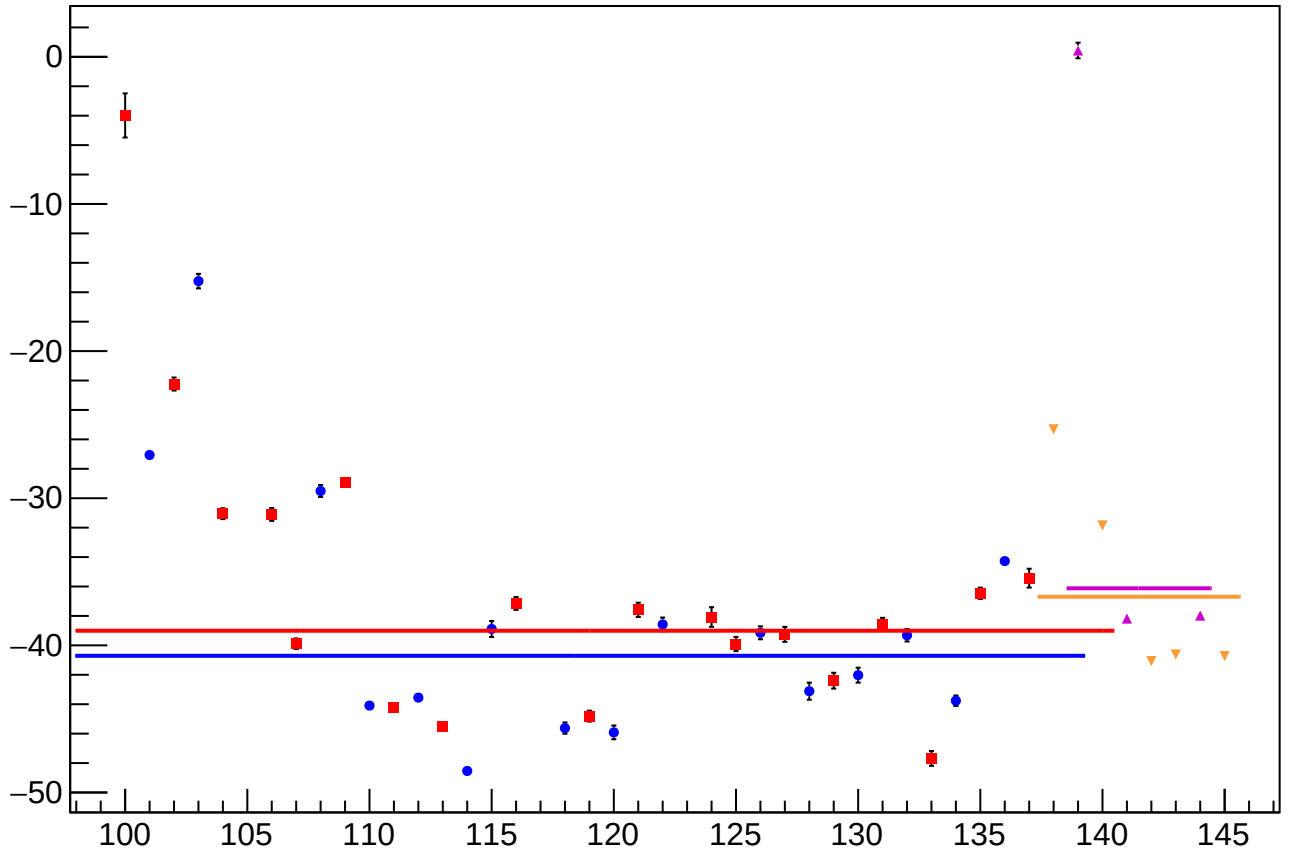
Left: 2.570+/-0.089 $\chi^2$/NDF: 3591.9/7

Right: 22.056+/-0.036 $\chi^2$/NDF: 23074.3/34

In: 19.989+/-0.053 $\chi^2$/NDF:26094.2/18

Out: 18.926+/-0.043 $\chi^2$/NDF:41448.2/23

All: 19.349+/-0.033 $\chi^2$/NDF: 67787.4/42




Right In: -40.709+/-0.076 $\chi^2$/NDF: 7780.4/15

Left Out: -36.695+/-0.089 $\chi^2$/NDF:3947.7/4

Right Out: -39.005+/-0.071 $\chi^2$/NDF: 10101.3/18

Left In: -36.122+/-0.120 $\chi^2$/NDF:4994.8/2

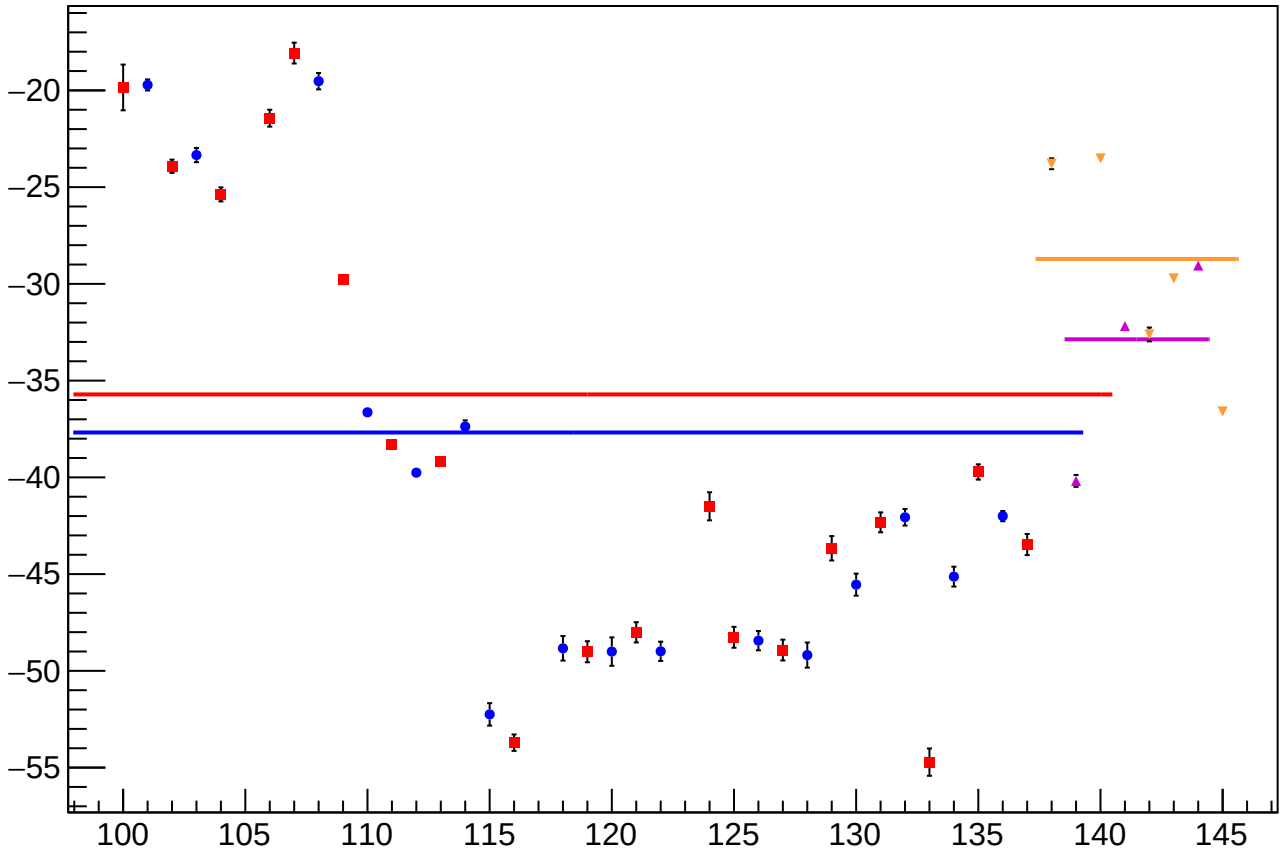
Left: -36.490+/-0.072 $\chi^2$/NDF: 8957.2/7

Right: -39.794+/-0.052 $\chi^2$/NDF: 18148.1/34

In: -39.377+/-0.064 $\chi^2$/NDF:13819.3/18

Out: -38.109+/-0.056 $\chi^2$/NDF:14458.9/23

All: -38.650+/-0.042 $\chi^2$/NDF: 28500.0/42




Right In: -37.681+/-0.074 $\chi^2$/NDF: 10853.9/15

Left Out: -28.713+/-0.116 $\chi^2$/NDF:1951.4/4

Right Out: -35.714+/-0.064 $\chi^2$/NDF: 13274.5/18

Left In: -32.866+/-0.150 $\chi^2$/NDF:826.1/2

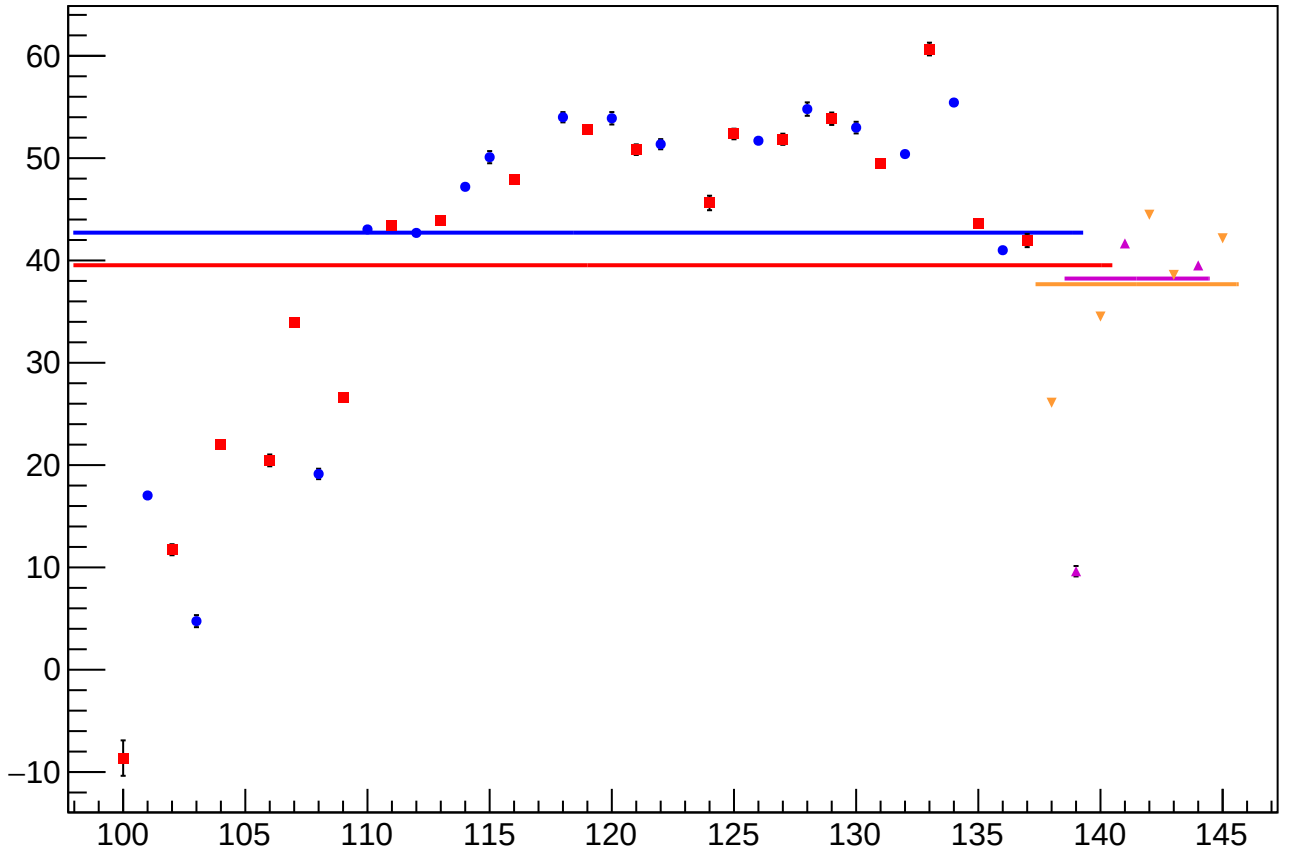
Left: -30.271+/-0.092 $\chi^2$/NDF: 3255.1/7

Right: -36.564+/-0.048 $\chi^2$/NDF: 24532.6/34

In: -36.746+/-0.066 $\chi^2$/NDF:12508.0/18

Out: -34.075+/-0.056 $\chi^2$/NDF:17998.2/23

All: -35.196+/-0.043 $\chi^2$/NDF: 31450.7/42




Right In: 42.718+/-0.085 $\chi^2$/NDF: 14765.0/15

Left Out: 37.678+/-0.105 $\chi^2$/NDF:2713.5/4

Right Out: 39.533+/-0.078 $\chi^2$/NDF: 17978.2/18

Left In: 38.232+/-0.139 $\chi^2$/NDF:3469.5/2

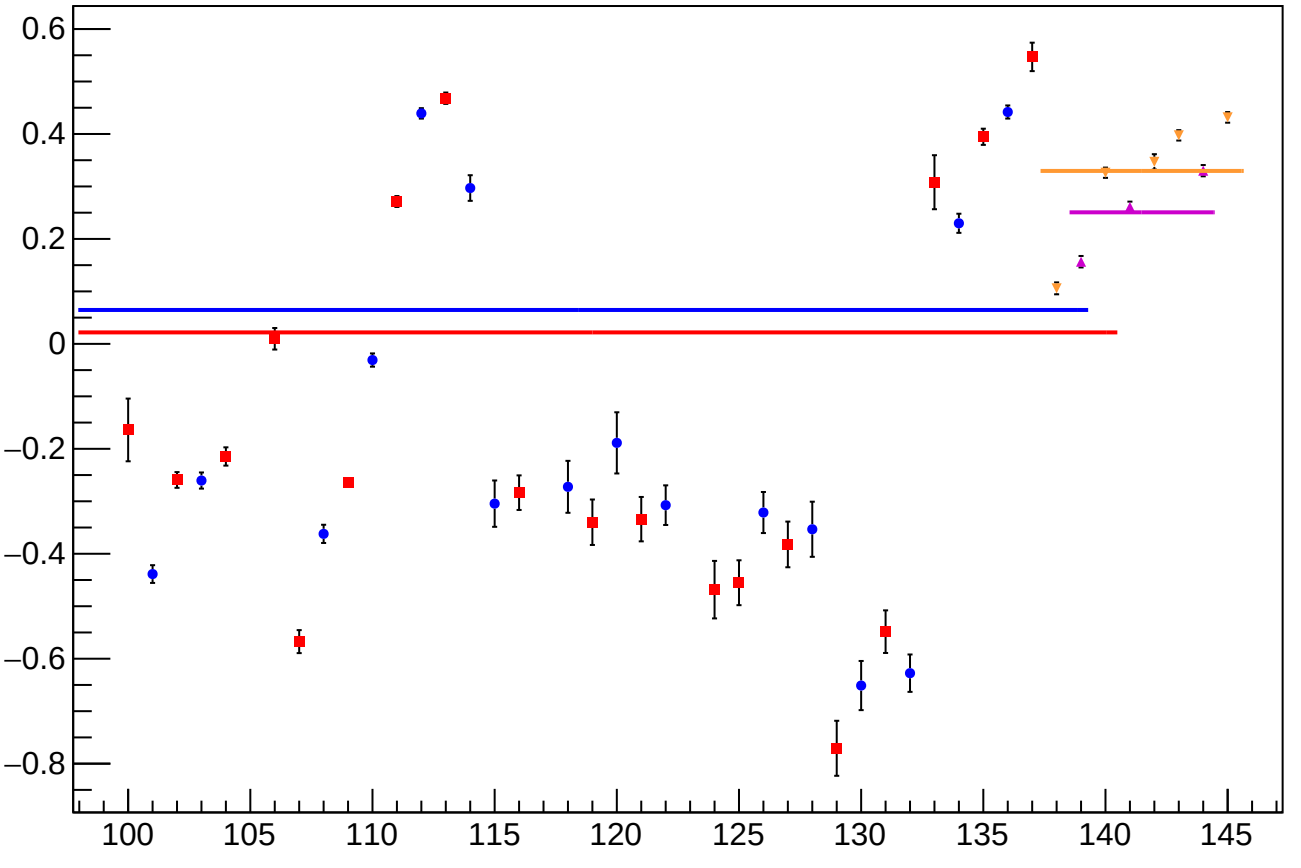
Left: 37.879+/-0.084 $\chi^2$/NDF: 6193.0/7

Right: 40.991+/-0.058 $\chi^2$/NDF: 33503.2/34

In: 41.502+/-0.073 $\chi^2$/NDF:18988.5/18

Out: 38.873+/-0.063 $\chi^2$/NDF:20892.1/23

All: 39.997+/-0.047 $\chi^2$/NDF: 40631.2/42




Right In: 0.065+/-0.005 $\chi^2$/NDF: 5497.5/15

Left Out: 0.330+/-0.005 $\chi^2$/NDF:537.4/4

Right Out: 0.022+/-0.004 $\chi^2$/NDF: 6405.3/18

Left In: 0.251+/-0.006 $\chi^2$/NDF:129.7/2

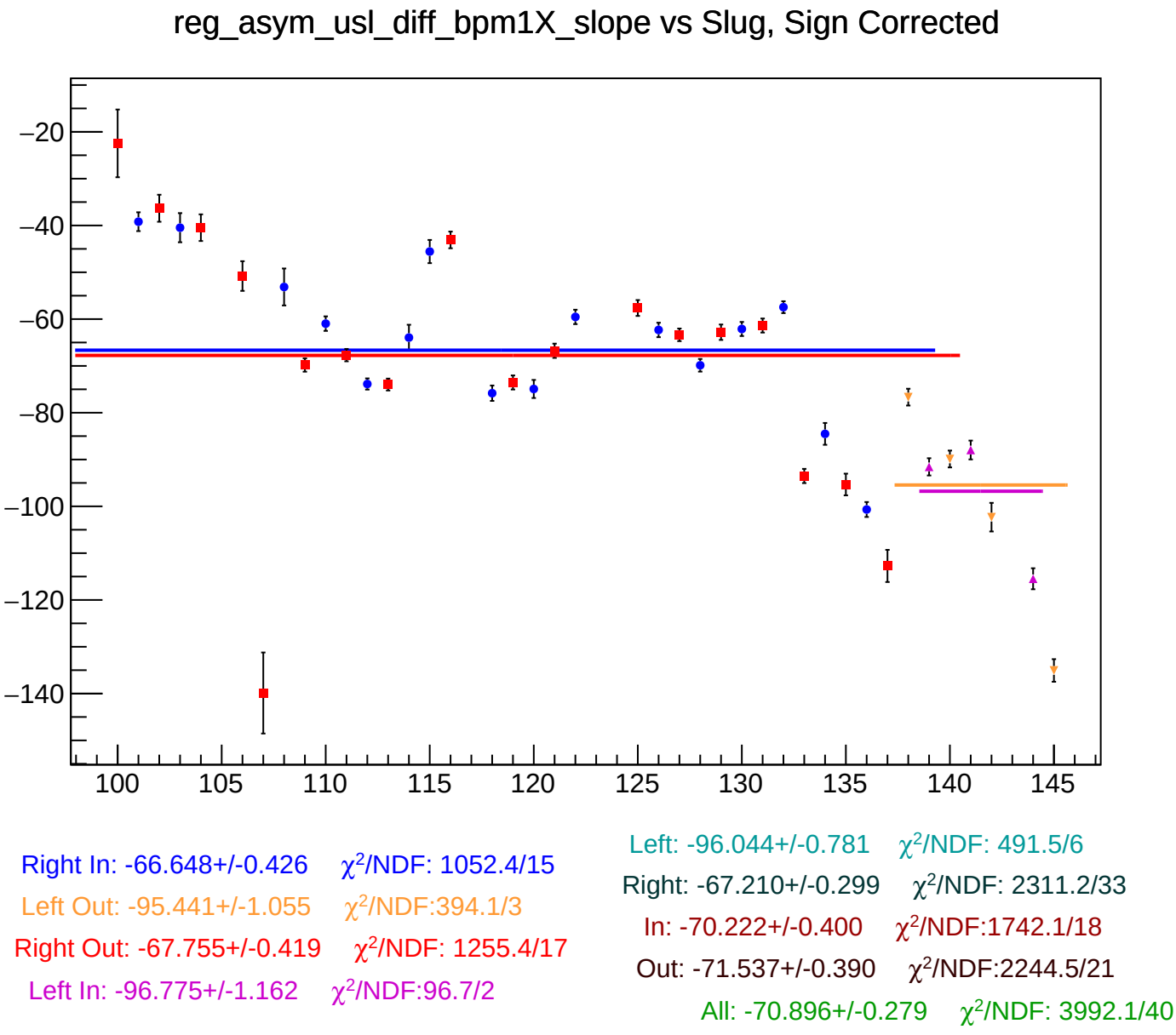
Left: 0.299+/-0.004 $\chi^2$/NDF: 769.8/7

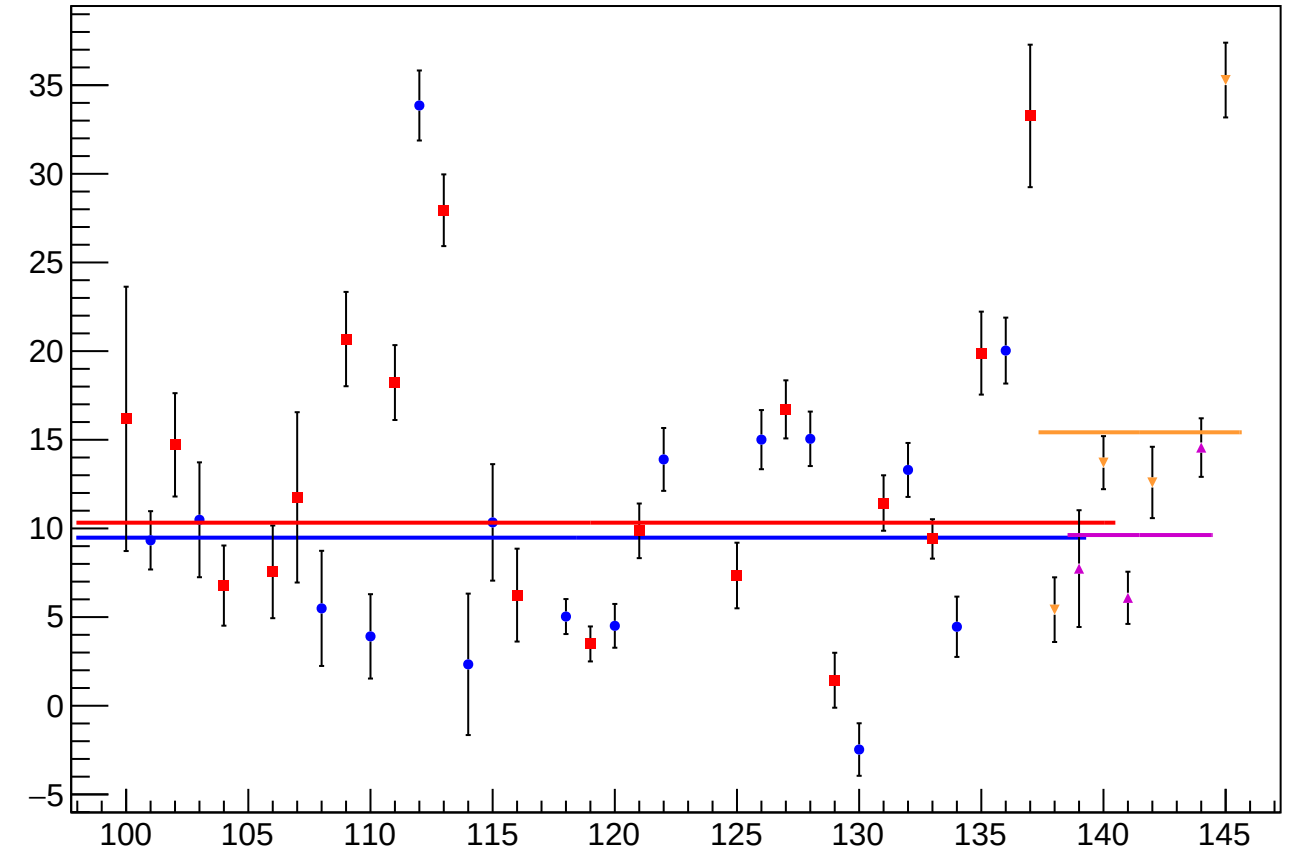
Right: 0.041+/-0.003 $\chi^2$/NDF: 11945.6/34

In: 0.136+/-0.004 $\chi^2$/NDF:6197.8/18

Out: 0.161+/-0.003 $\chi^2$/NDF:9164.3/23

All: 0.150+/-0.002 $\chi^2$/NDF: 15385.8/42


reg_asym_usl_diff_bpm1X_slope vs Slug, Sign Corrected
−20
−40
−60
−80
−100
−120
−140
100
105
110
115
120
125
130
135
140
145
Right In: -66.648+/-0.426 χ²/NDF: 1052.4/15
Left Out: -95.441+/-1.055 χ²/NDF:394.1/3
Right Out: -67.755+/-0.419 χ²/NDF: 1255.4/17
Left In: -96.775+/-1.162 χ²/NDF:96.7/2
Left: -96.044+/-0.781 χ²/NDF: 491.5/6
Right: -67.210+/-0.299 χ²/NDF: 2311.2/33
In: -70.222+/-0.400 χ²/NDF:1742.1/18
Out: -71.537+/-0.390 χ²/NDF:2244.5/21
All: -70.896+/-0.279 χ²/NDF: 3992.1/40




Right In: 9.480+/-0.428 $\chi^2$/NDF: 341.9/15

Left Out: 15.422+/-0.906 $\chi^2$/NDF:122.2/3

Right Out: 10.324+/-0.436 $\chi^2$/NDF: 263.4/17

Left In: 9.628+/-1.042 $\chi^2$/NDF:15.0/2

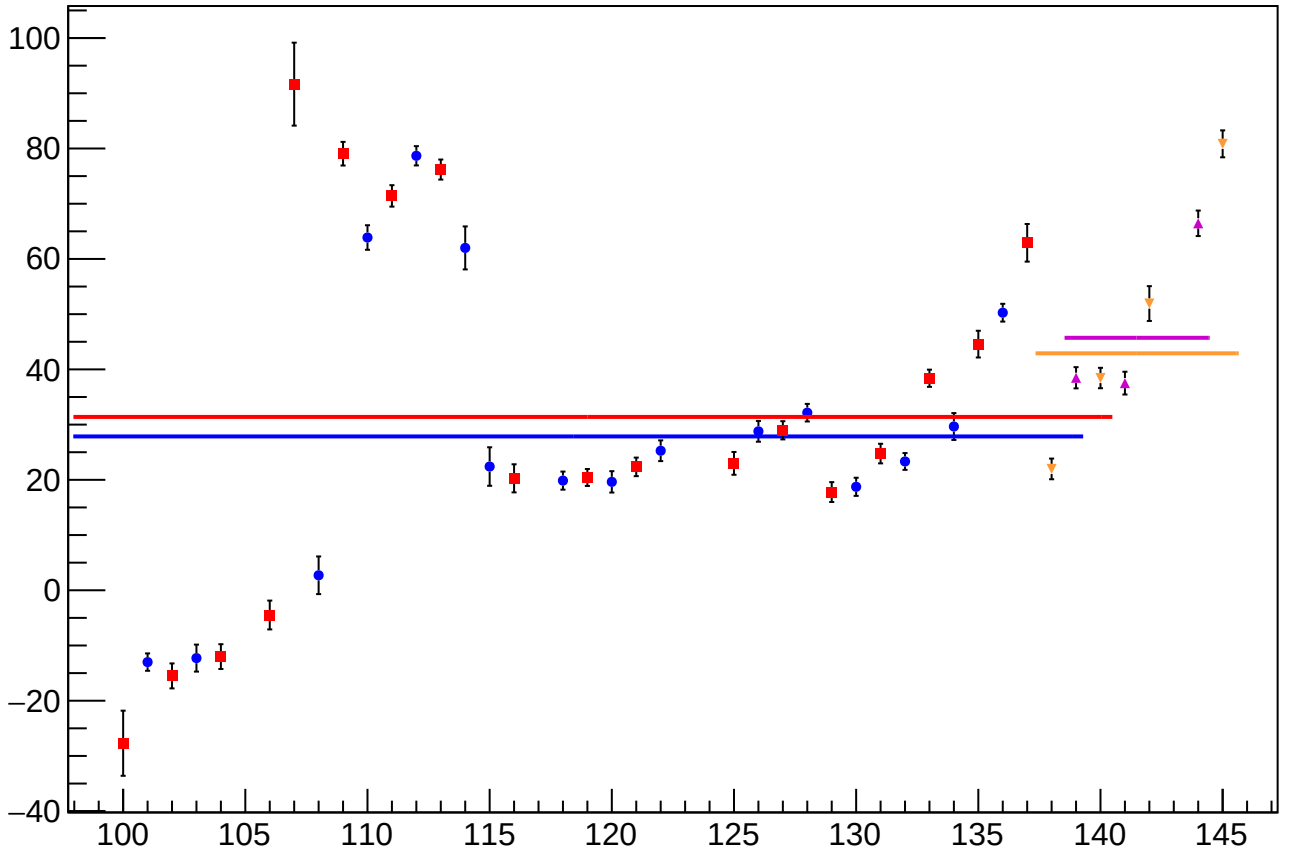
Left: 12.930+/-0.684 $\chi^2$/NDF: 154.8/6

Right: 9.895+/-0.305 $\chi^2$/NDF: 607.3/33

In: 9.501+/-0.396 $\chi^2$/NDF:357.0/18

Out: 11.282+/-0.393 $\chi^2$/NDF:411.3/21

All: 10.399+/-0.279 $\chi^2$/NDF: 778.5/40




Right In: 27.860+/-0.482 $\chi^2$/NDF: 2474.0/15

Left Out: 42.907+/-1.087 $\chi^2$/NDF:380.8/3

Right Out: 31.394+/-0.488 $\chi^2$/NDF: 3011.4/17

Left In: 45.720+/-1.201 $\chi^2$/NDF:110.7/2

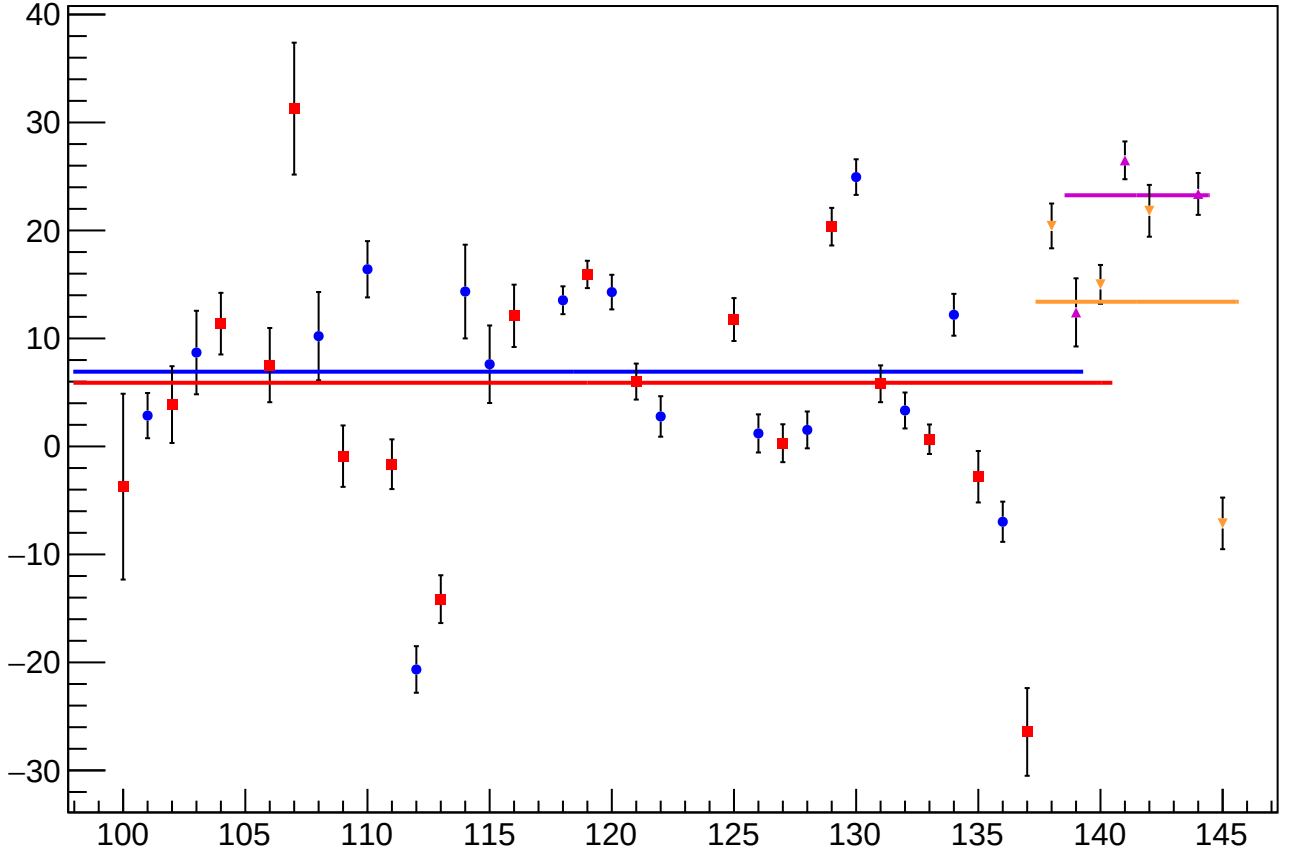
Left: 44.174+/-0.806 $\chi^2$/NDF: 494.4/6

Right: 29.608+/-0.343 $\chi^2$/NDF: 5511.9/33

In: 30.342+/-0.448 $\chi^2$/NDF:2775.2/18

Out: 33.322+/-0.445 $\chi^2$/NDF:3485.6/21

All: 31.842+/-0.316 $\chi^2$/NDF: 6283.0/40




Right In: 6.922+/-0.496 $\chi^2$/NDF: 444.3/15

Left Out: 13.399+/-1.059 $\chi^2$/NDF:98.3/3

Right Out: 5.896+/-0.502 $\chi^2$/NDF: 367.7/17

Left In: 23.259+/-1.201 $\chi^2$/NDF:15.2/2

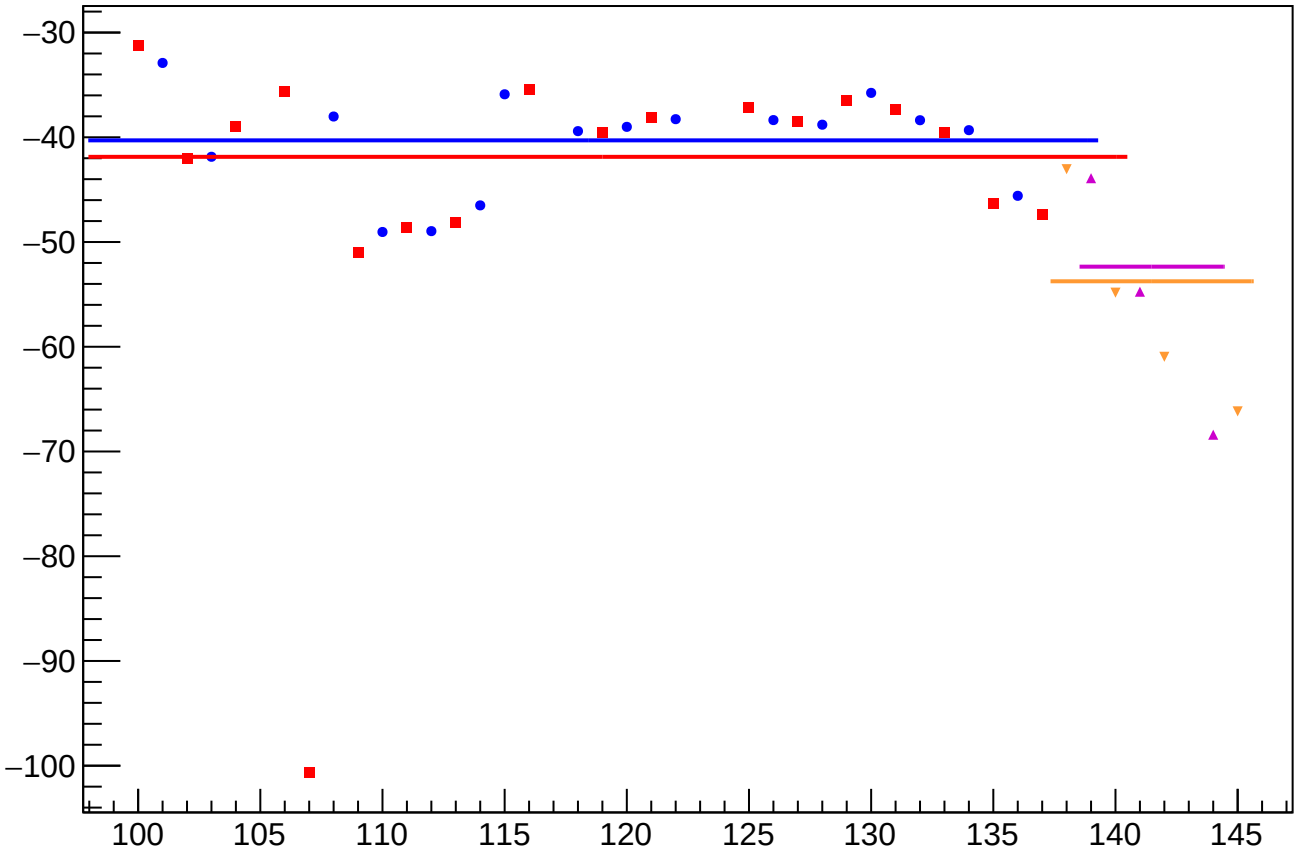
Left: 17.712+/-0.795 $\chi^2$/NDF: 151.5/6

Right: 6.415+/-0.353 $\chi^2$/NDF: 814.1/33

In: 9.297+/-0.458 $\chi^2$/NDF:617.6/18

Out: 7.271+/-0.453 $\chi^2$/NDF:507.0/21

All: 8.274+/-0.322 $\chi^2$/NDF: 1134.5/40




Right In: -40.293+/-0.031 $\chi^2$/NDF: 20663.5/15

Left Out: -53.750+/-0.045 $\chi^2$/NDF:40568.0/3

Right Out: -41.867+/-0.032 $\chi^2$/NDF: 58734.8/17

Left In: -52.353+/-0.047 $\chi^2$/NDF:40140.2/2

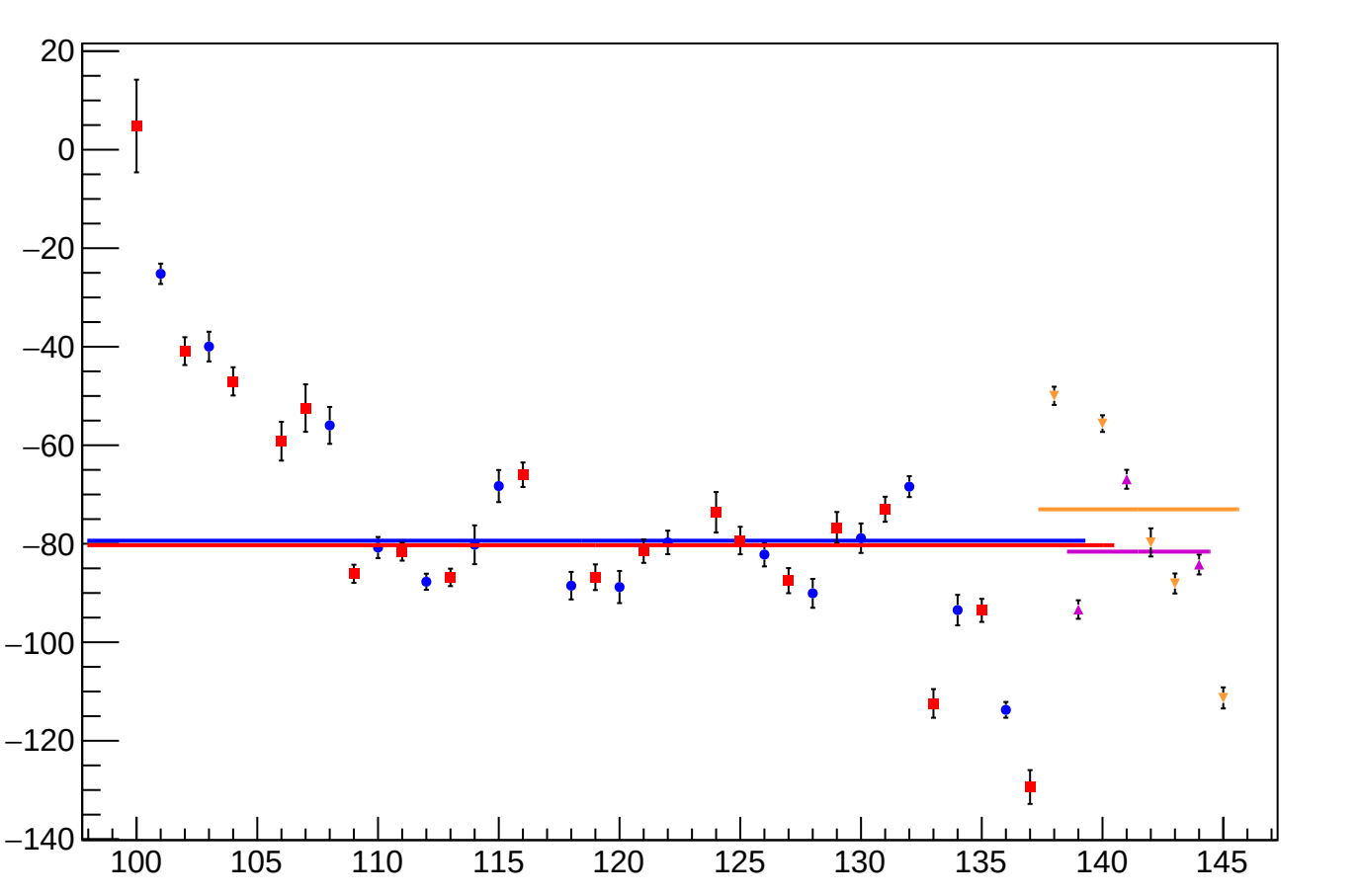
Left: -53.086+/-0.033 $\chi^2$/NDF: 81167.7/6

Right: -41.063+/-0.022 $\chi^2$/NDF: 80626.6/33

In: -43.993+/-0.026 $\chi^2$/NDF:106068.2/18

Out: -45.884+/-0.026 $\chi^2$/NDF:145608.7/21

All: -44.939+/-0.018 $\chi^2$/NDF: 254293.8/40




Right In: -79.382+/-0.611 $\chi^2$/NDF: 1475.9/15

Left Out: -73.012+/-0.903 $\chi^2$/NDF:642.2/4

Right Out: -80.294+/-0.604 $\chi^2$/NDF: 914.7/18

Left In: -81.600+/-1.119 $\chi^2$/NDF:99.2/2

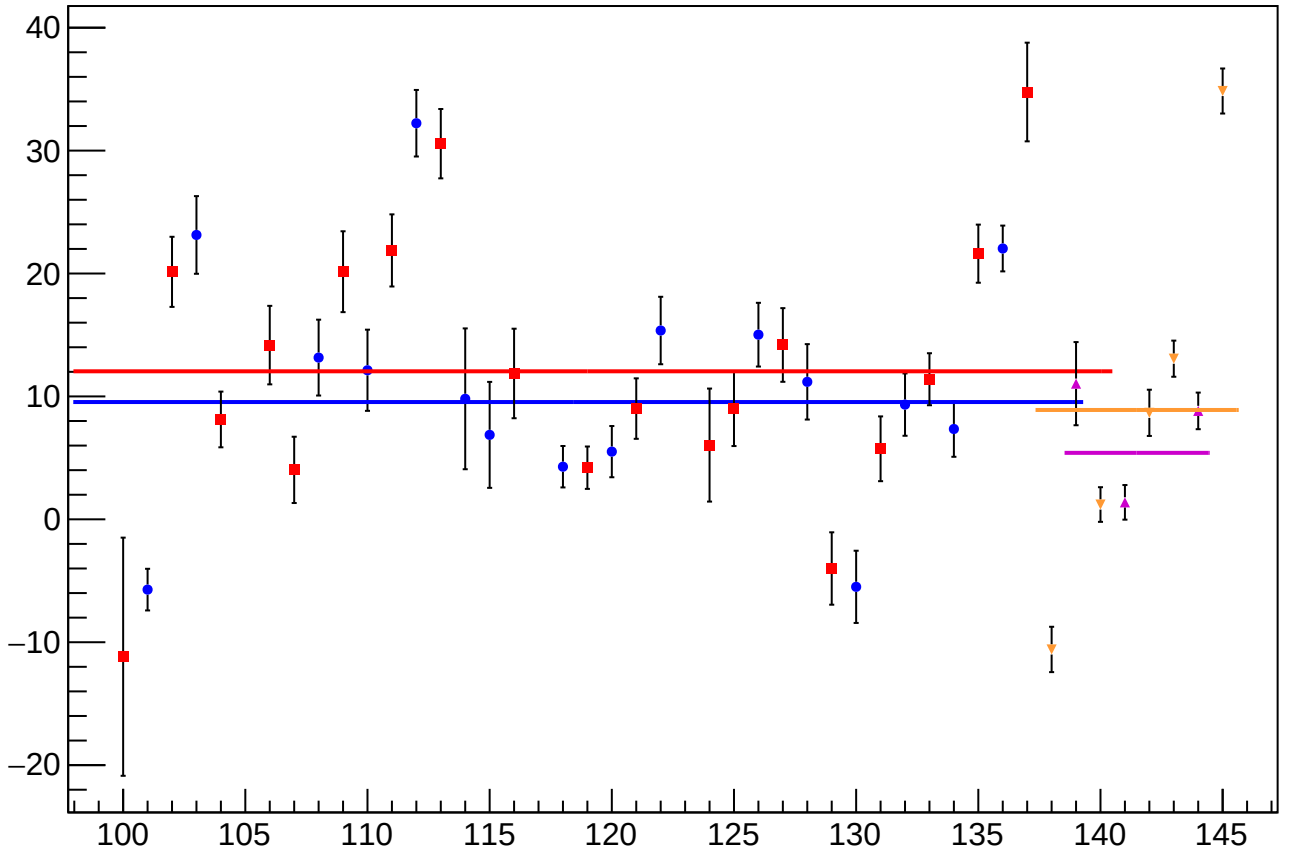
Left: -76.400+/-0.703 $\chi^2$/NDF: 777.0/7

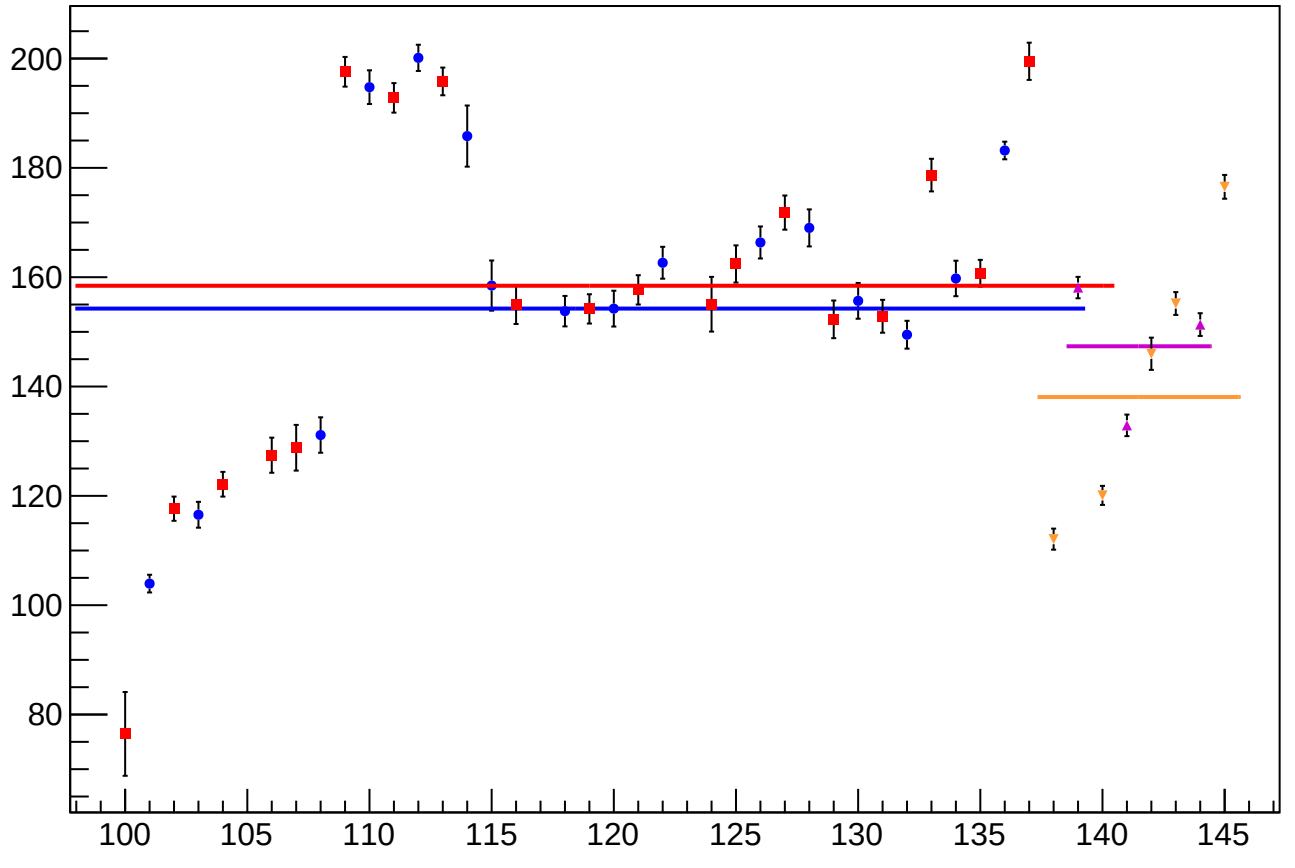
Right: -79.844+/-0.430 $\chi^2$/NDF: 2391.7/34

In: -79.892+/-0.536 $\chi^2$/NDF:1578.1/18

Out: -78.044+/-0.502 $\chi^2$/NDF:1601.8/23

All: -78.907+/-0.367 $\chi^2$/NDF: 3186.1/42


reg_asym_usr_diff_bpm4aY_slope vs Slug, Sign Corrected
40
30
20
10
0
−10
−20
100
105
110
115
120
125
130
135
140
145
Right In: 9.543+/-0.621 χ²/NDF: 267.1/15
Left Out: 8.897+/-0.737 χ²/NDF:350.1/4
Right Out: 12.044+/-0.637 χ²/NDF: 195.8/18
Left In: 5.408+/-0.979 χ²/NDF:16.2/2
Left: 7.635+/-0.589 χ²/NDF: 374.4/7
Right: 10.762+/-0.445 χ²/NDF: 470.8/34
In: 8.356+/-0.525 χ²/NDF:296.0/18
Out: 10.699+/-0.482 χ²/NDF:556.4/23
All: 9.627+/-0.355 χ²/NDF: 863.2/42




Right In: 154.260+/-0.662 $\chi^2$/NDF: 2213.7/15

Left Out: 138.082+/-0.930 $\chi^2$/NDF:675.2/4

Right Out: 158.435+/-0.683 $\chi^2$/NDF: 1664.2/18

Left In: 147.362+/-1.156 $\chi^2$/NDF:87.5/2

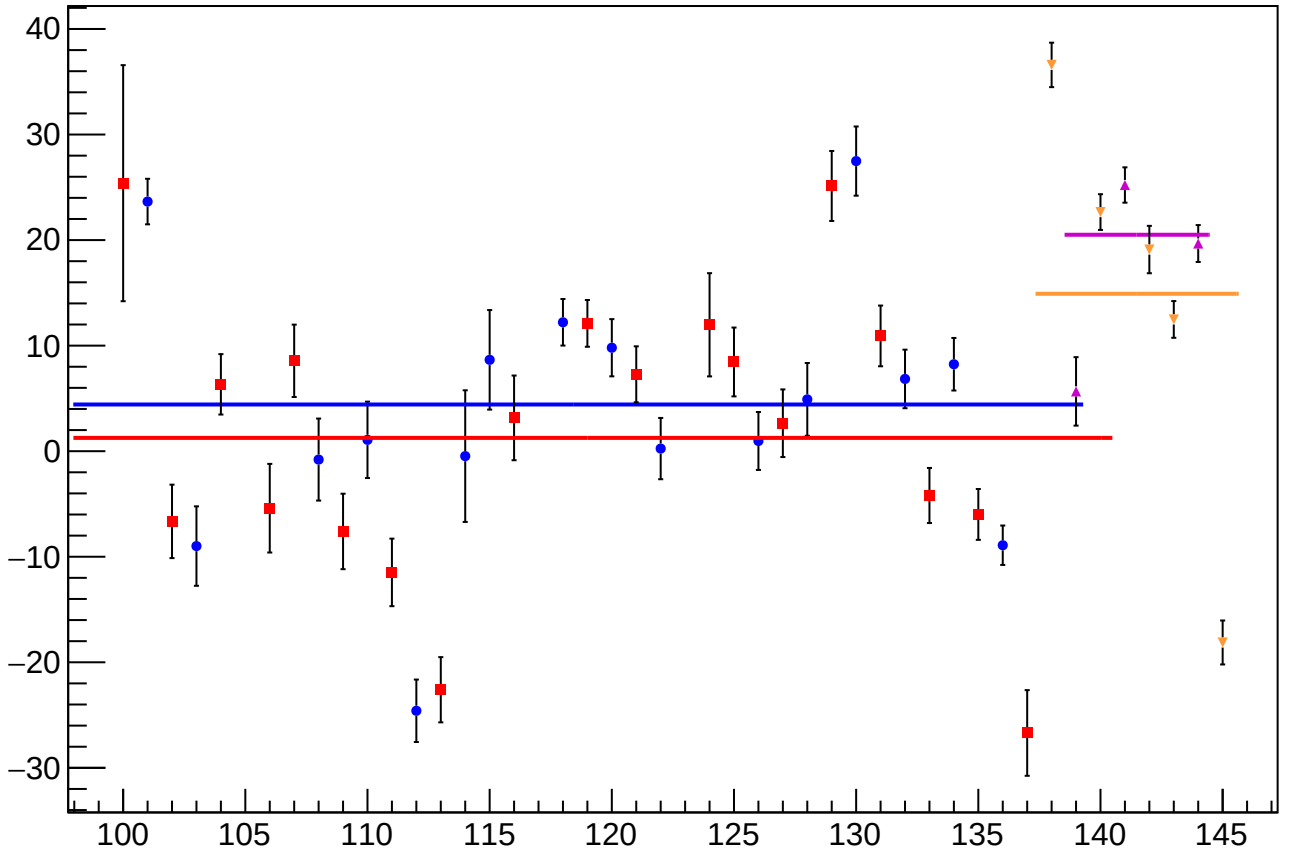
Left: 141.732+/-0.725 $\chi^2$/NDF: 801.8/7

Right: 156.282+/-0.475 $\chi^2$/NDF: 3897.2/34

In: 152.557+/-0.574 $\chi^2$/NDF:2328.0/18

Out: 151.314+/-0.550 $\chi^2$/NDF:2650.5/23

All: 151.909+/-0.397 $\chi^2$/NDF: 4980.9/42




Right In: 4.424+/-0.714 $\chi^2$/NDF: 316.1/15

Left Out: 14.913+/-0.866 $\chi^2$/NDF:384.1/4

Right Out: 1.260+/-0.732 $\chi^2$/NDF: 264.9/18

Left In: 20.505+/-1.133 $\chi^2$/NDF:29.1/2

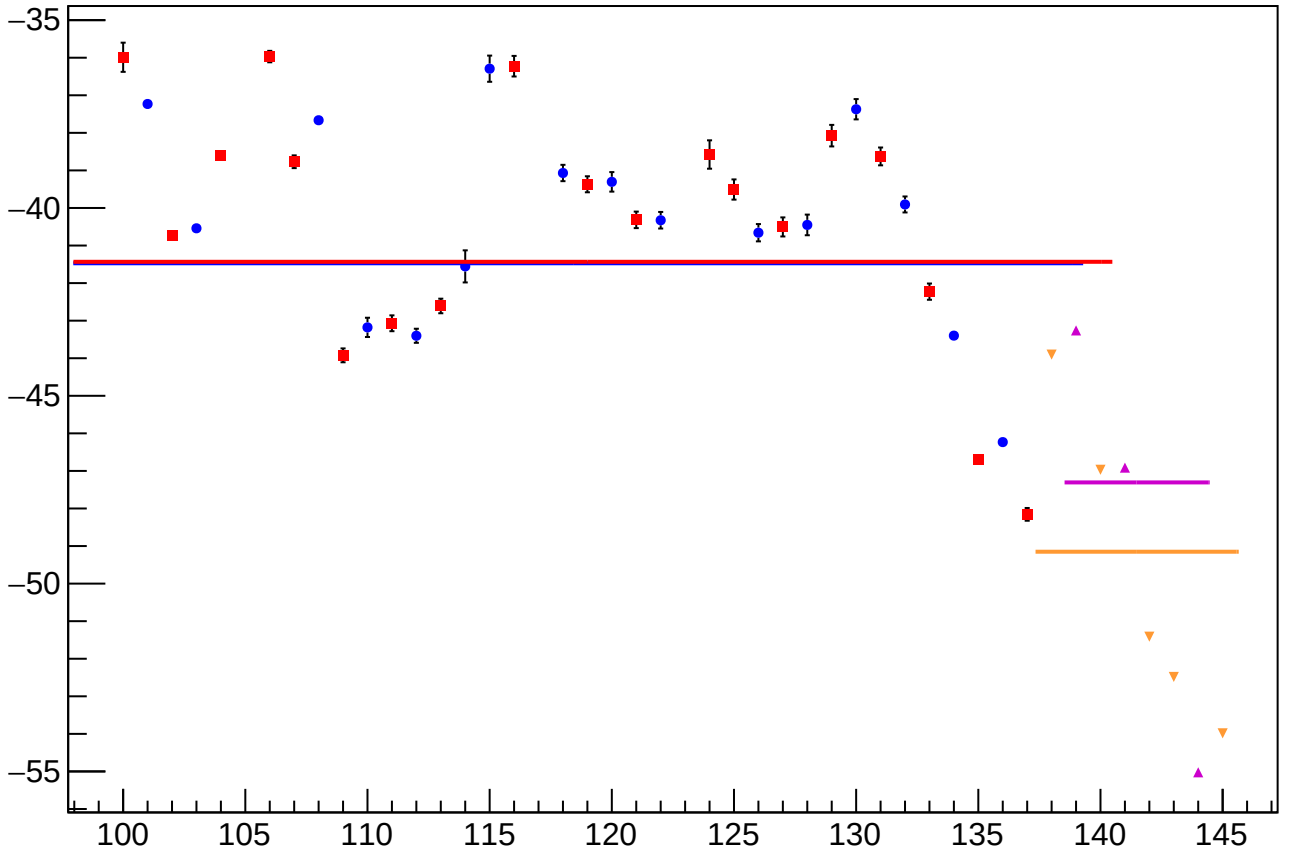
Left: 16.976+/-0.688 $\chi^2$/NDF: 428.5/7

Right: 2.881+/-0.511 $\chi^2$/NDF: 590.5/34

In: 8.997+/-0.604 $\chi^2$/NDF:489.4/18

Out: 6.948+/-0.559 $\chi^2$/NDF:794.0/23

All: 7.893+/-0.410 $\chi^2$/NDF: 1289.6/42




Right In: -41.472+/-0.038 $\chi^2$/NDF: 7912.0/15

Left Out: -49.151+/-0.039 $\chi^2$/NDF:10407.0/4

Right Out: -41.433+/-0.040 $\chi^2$/NDF: 8225.4/18

Left In: -47.306+/-0.046 $\chi^2$/NDF:10240.5/2

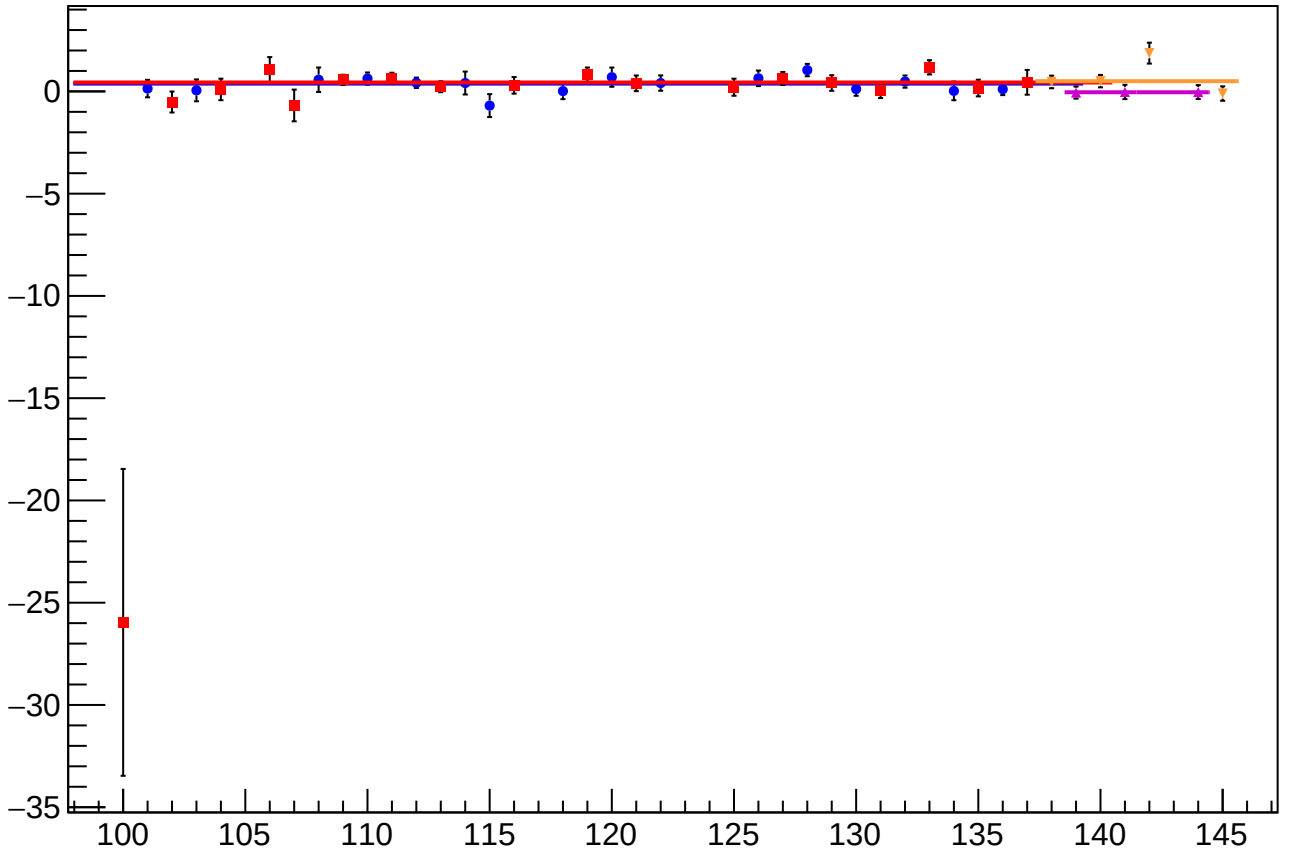
Left: -48.388+/-0.030 $\chi^2$/NDF: 21591.7/7

Right: -41.453+/-0.027 $\chi^2$/NDF: 16137.9/34

In: -43.848+/-0.029 $\chi^2$/NDF:27699.3/18

Out: -45.380+/-0.028 $\chi^2$/NDF:38146.7/23

All: -44.661+/-0.020 $\chi^2$/NDF: 67291.7/42




Right In: 0.382+/-0.092 $\chi^2$/NDF: 14.0/15

Left Out: 0.500+/-0.174 $\chi^2$/NDF:10.2/3

Right Out: 0.436+/-0.090 $\chi^2$/NDF: 29.0/17

Left In: -0.041+/-0.188 $\chi^2$/NDF:0.0/2

Left: 0.251+/-0.128 $\chi^2$/NDF: 14.6/6

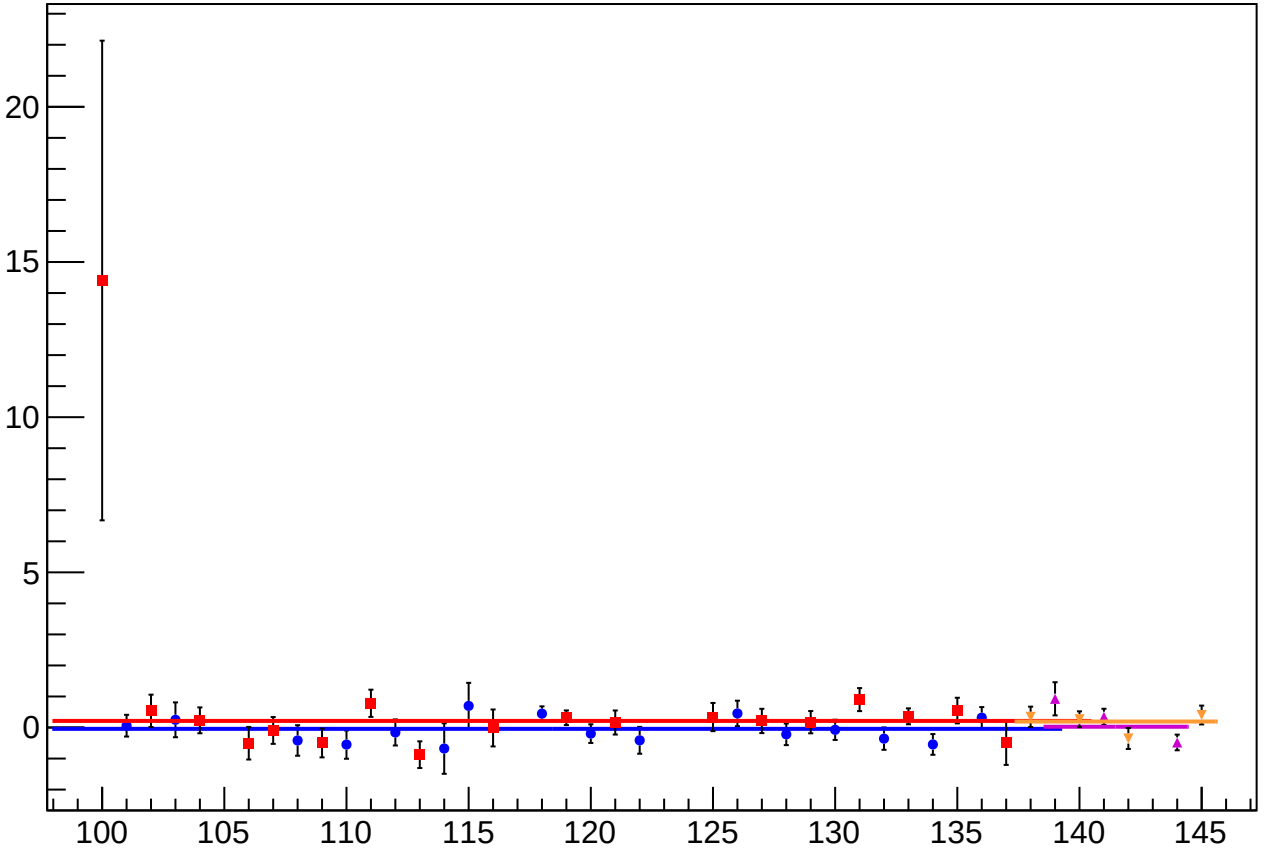
Right: 0.410+/-0.064 $\chi^2$/NDF: 43.2/33

In: 0.300+/-0.083 $\chi^2$/NDF:18.1/18

Out: 0.450+/-0.080 $\chi^2$/NDF:39.3/21

All: 0.378+/-0.057 $\chi^2$/NDF: 59.0/40

# reg_asym_dsl_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.043+/-0.094 $\chi^2$/NDF: 15.0/15

Left Out: 0.193+/-0.150 $\chi^2$/NDF:3.4/3

Right Out: 0.213+/-0.095 $\chi^2$/NDF: 22.4/17

Left In: 0.025+/-0.171 $\chi^2$/NDF:8.4/2

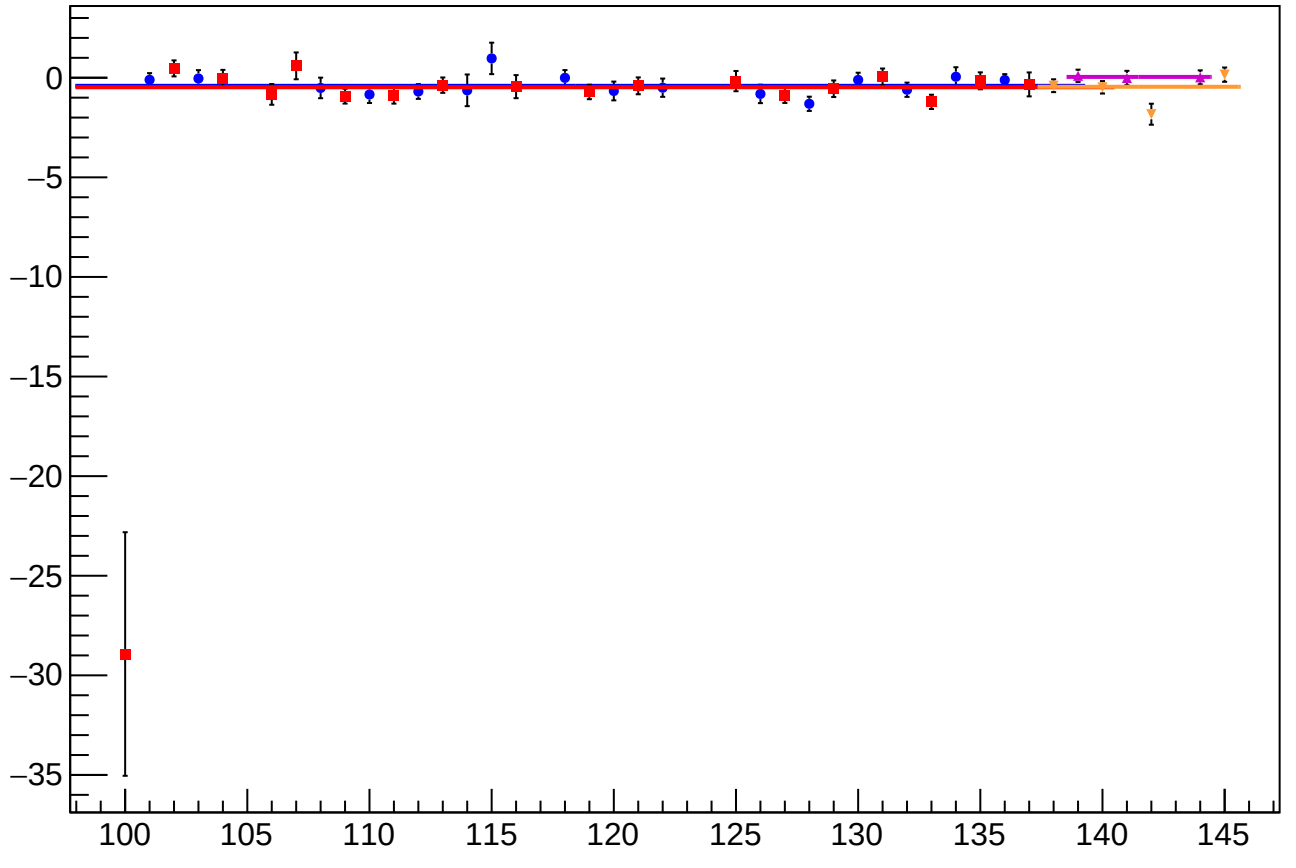
Left: 0.120+/-0.113 $\chi^2$/NDF: 12.4/6

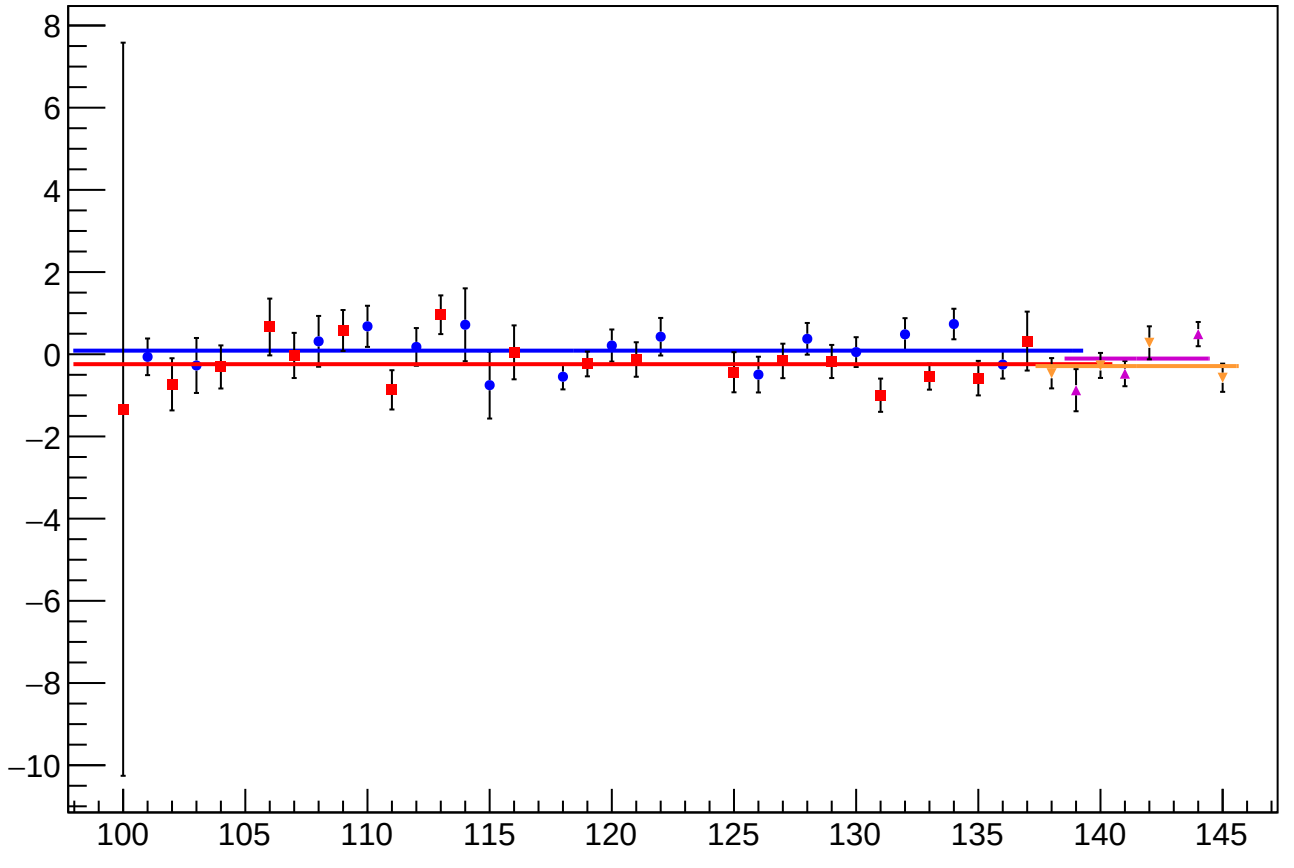
Right: 0.084+/-0.067 $\chi^2$/NDF: 41.1/33

In: -0.027+/-0.083 $\chi^2$/NDF:23.6/18

Out: 0.207+/-0.080 $\chi^2$/NDF:25.8/21

All: 0.093+/-0.058 $\chi^2$/NDF: 53.5/40


reg_asym_dsl_diff_bpm4eX_slope vs Slug, Sign Corrected
0
−5
−10
−15
−20
−25
−30
−35
100
105
110
115
120
125
130
135
140
145
Right In: -0.406+/-0.103 χ²/NDF: 17.8/15
Left Out: -0.453+/-0.179 χ²/NDF:9.7/3
Right Out: -0.478+/-0.104 χ²/NDF: 42.3/17
Left In: 0.042+/-0.195 χ²/NDF:0.1/2
Left: -0.227+/-0.132 χ²/NDF: 13.3/6
Right: -0.441+/-0.073 χ²/NDF: 60.3/33
In: -0.308+/-0.091 χ²/NDF:22.0/18
Out: -0.472+/-0.090 χ²/NDF:52.0/21
All: -0.391+/-0.064 χ²/NDF: 75.6/40




Right In: 0.088+/-0.108 $\chi^2$/NDF: 15.9/15

Left Out: -0.288+/-0.175 $\chi^2$/NDF:2.9/3

Right Out: -0.241+/-0.110 $\chi^2$/NDF: 19.6/17

Left In: -0.105+/-0.196 $\chi^2$/NDF:7.8/2

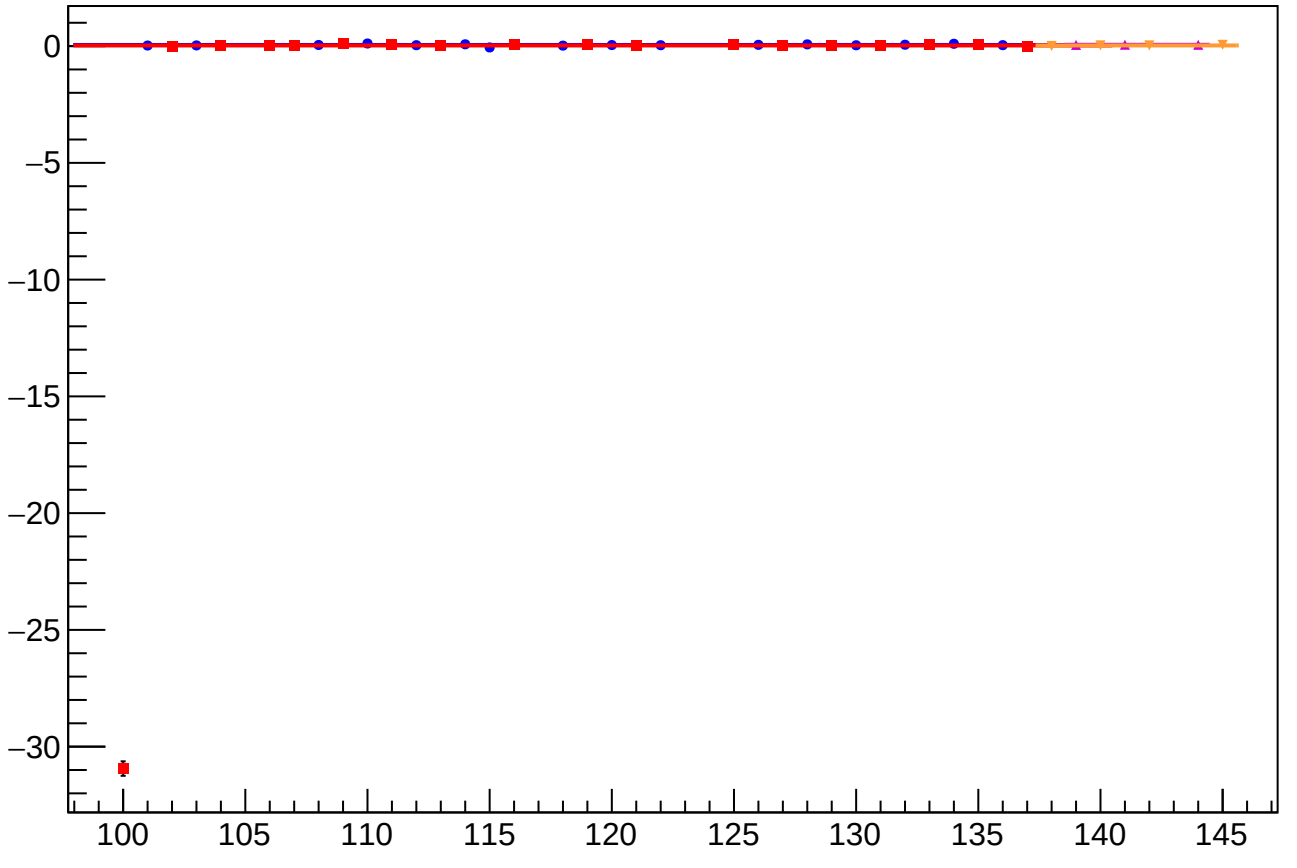
Left: -0.207+/-0.130 $\chi^2$/NDF: 11.1/6

Right: -0.075+/-0.077 $\chi^2$/NDF: 40.0/33

In: 0.043+/-0.095 $\chi^2$/NDF:24.4/18

Out: -0.254+/-0.093 $\chi^2$/NDF:22.6/21

All: -0.109+/-0.066 $\chi^2$/NDF: 51.9/40




Right In: 0.049+/-0.006 $\chi^2$/NDF: 19.2/15

Left Out: 0.029+/-0.007 $\chi^2$/NDF:6.2/3

Right Out: 0.028+/-0.006 $\chi^2$/NDF: 10020.9/17

Left In: 0.056+/-0.008 $\chi^2$/NDF:0.2/2

Left: 0.042+/-0.005 $\chi^2$/NDF: 13.0/6

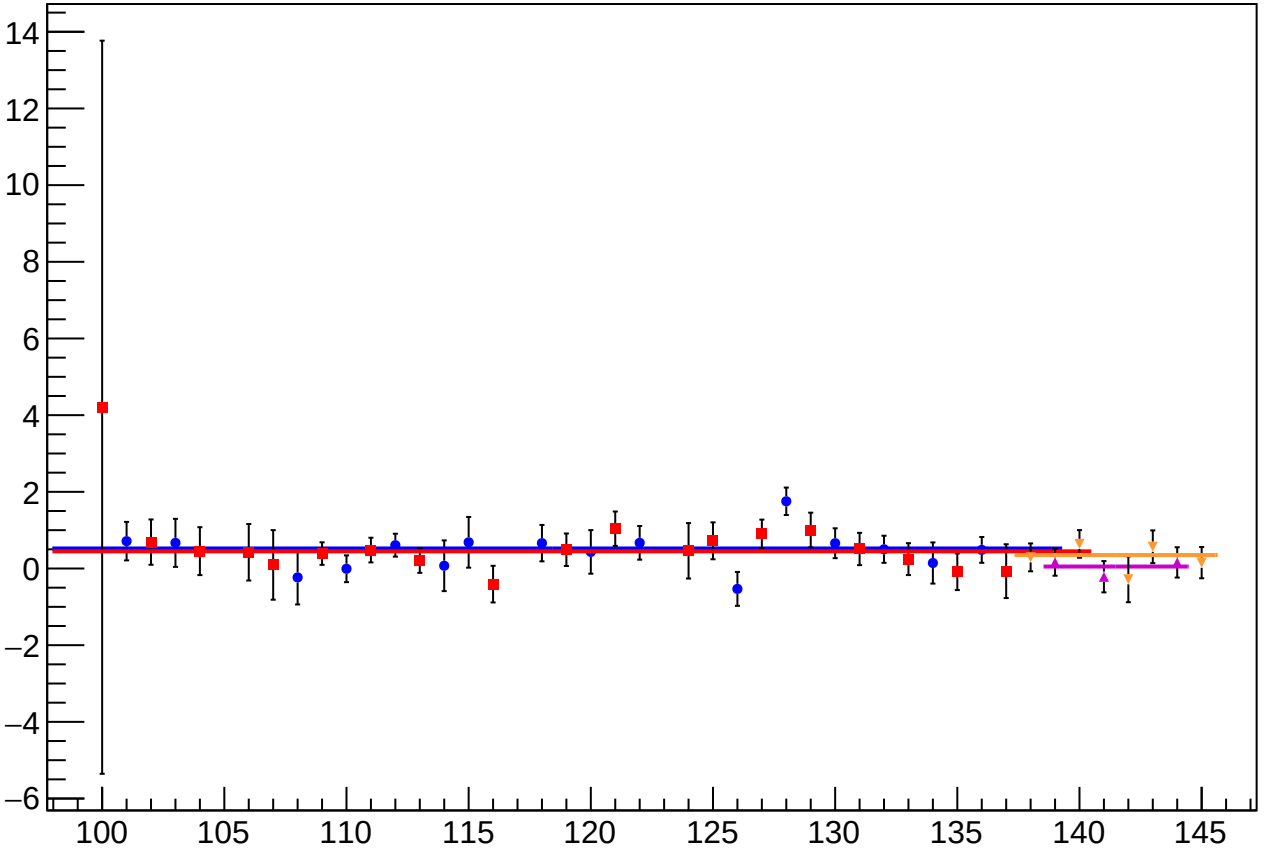
Right: 0.038+/-0.004 $\chi^2$/NDF: 10045.5/33

In: 0.051+/-0.005 $\chi^2$/NDF:20.0/18

Out: 0.028+/-0.005 $\chi^2$/NDF:10027.1/21

All: 0.040+/-0.003 $\chi^2$/NDF: 10058.7/40

# reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 0.522+/-0.108 $\chi^2$/NDF: 22.6/15

Left Out: 0.351+/-0.184 $\chi^2$/NDF:2.3/4

Right Out: 0.448+/-0.105 $\chi^2$/NDF: 11.4/18

Left In: 0.051+/-0.220 $\chi^2$/NDF:0.6/2

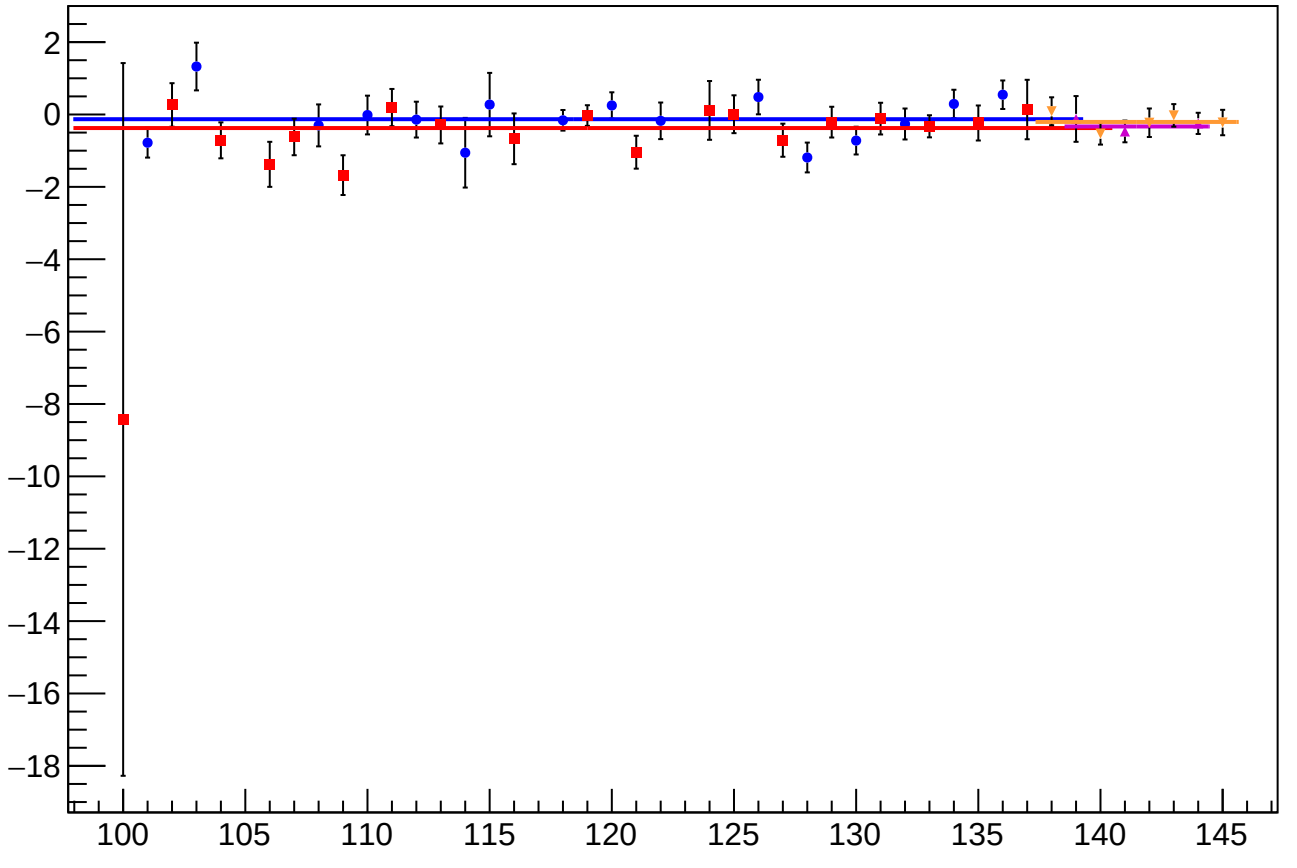
Left: 0.228+/-0.141 $\chi^2$/NDF: 4.0/7

Right: 0.484+/-0.075 $\chi^2$/NDF: 34.3/34

In: 0.431+/-0.097 $\chi^2$/NDF:26.9/18

Out: 0.424+/-0.091 $\chi^2$/NDF:13.9/23

All: 0.427+/-0.067 $\chi^2$/NDF: 40.8/42




Right In: -0.130+/-0.112 $\chi^2$/NDF: 24.6/15

Left Out: -0.206+/-0.153 $\chi^2$/NDF:2.1/4

Right Out: -0.375+/-0.111 $\chi^2$/NDF: 18.2/18

Left In: -0.331+/-0.199 $\chi^2$/NDF:0.4/2

Left: -0.253+/-0.121 $\chi^2$/NDF: 2.7/7

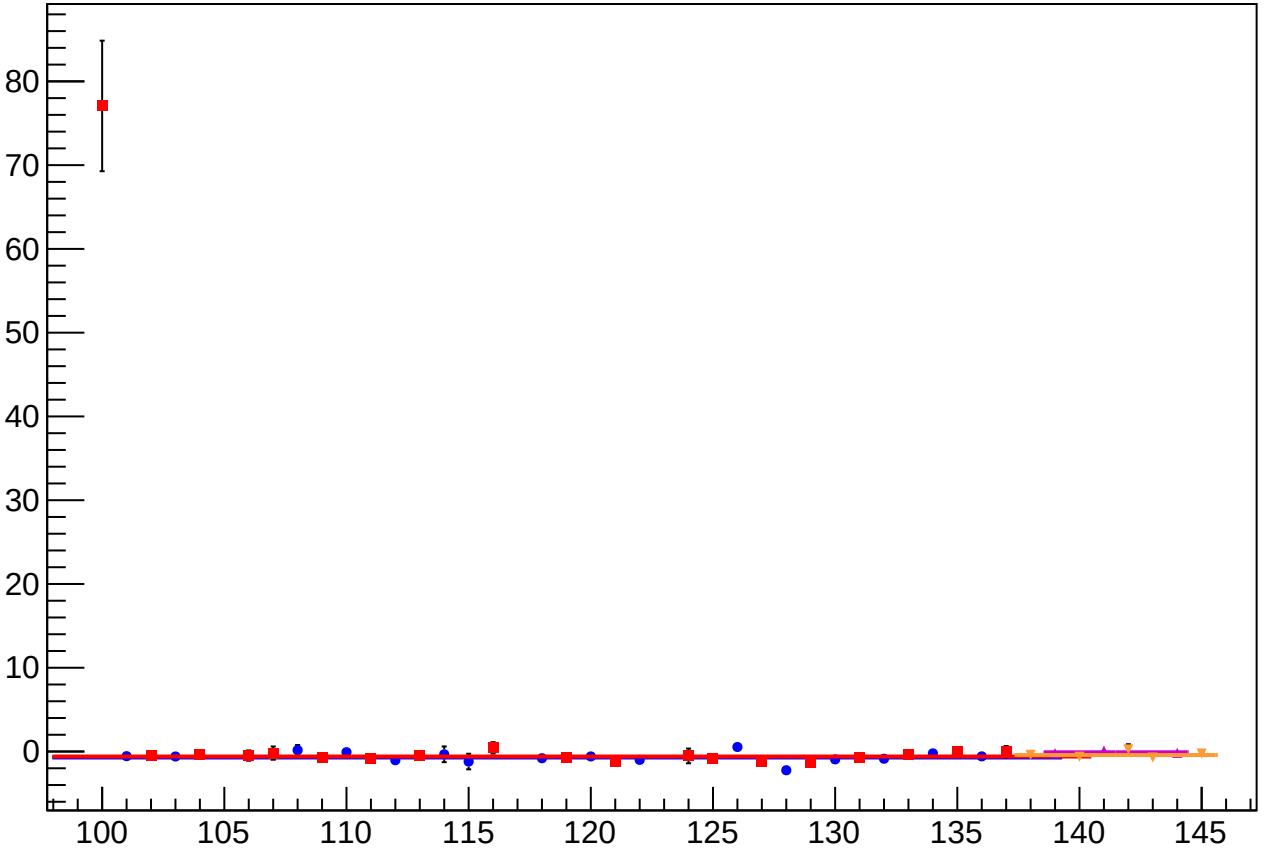
Right: -0.253+/-0.079 $\chi^2$/NDF: 45.2/34

In: -0.178+/-0.097 $\chi^2$/NDF:25.7/18

Out: -0.316+/-0.090 $\chi^2$/NDF:21.1/23

All: -0.253+/-0.066 $\chi^2$/NDF: 47.9/42

# reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -0.713+/-0.122 $\chi^2$/NDF: 24.9/15

Left Out: -0.421+/-0.190 $\chi^2$/NDF:2.1/4

Right Out: -0.597+/-0.122 $\chi^2$/NDF: 110.9/18

Left In: -0.094+/-0.228 $\chi^2$/NDF:0.3/2

Left: -0.287+/-0.146 $\chi^2$/NDF: 3.7/7

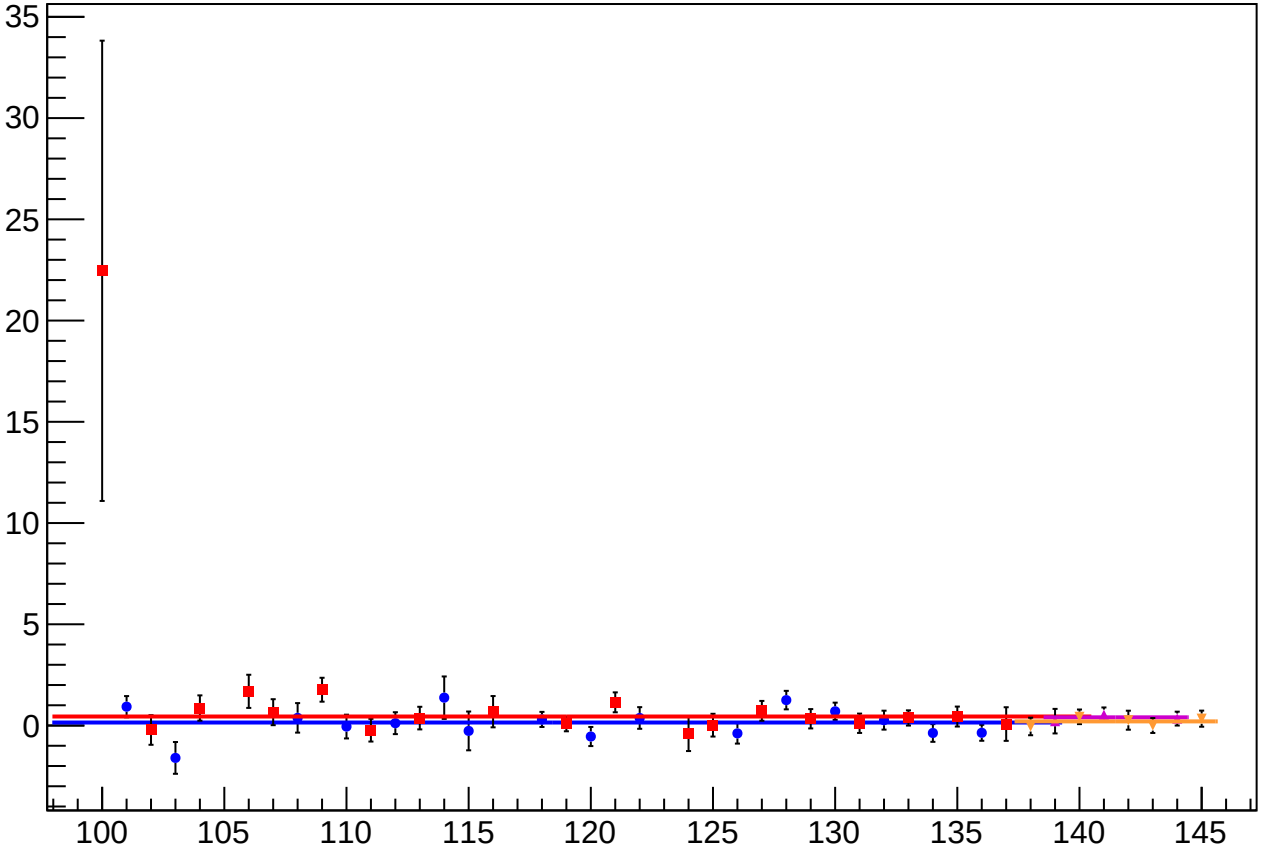
Right: -0.655+/-0.086 $\chi^2$/NDF: 136.3/34

In: -0.576+/-0.107 $\chi^2$/NDF:31.0/18

Out: -0.546+/-0.102 $\chi^2$/NDF:113.7/23

All: -0.560+/-0.074 $\chi^2$/NDF: 144.7/42

# reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 0.148+/-0.128 $\chi^2$/NDF: 23.3/15

Left Out: 0.204+/-0.179 $\chi^2$/NDF:1.2/4

Right Out: 0.445+/-0.128 $\chi^2$/NDF: 19.7/18

Left In: 0.404+/-0.228 $\chi^2$/NDF:0.3/2

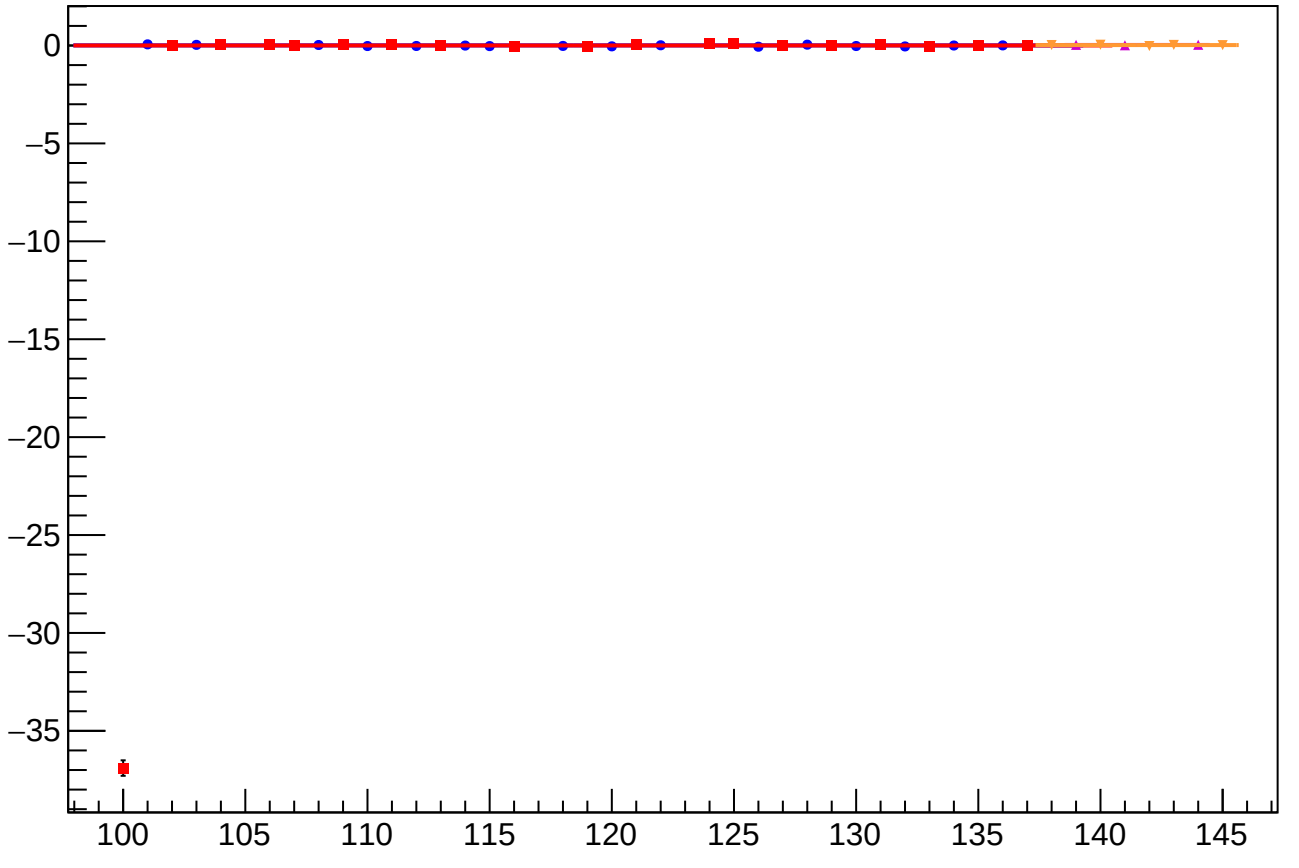
Left: 0.280+/-0.141 $\chi^2$/NDF: 1.9/7

Right: 0.296+/-0.090 $\chi^2$/NDF: 45.7/34

In: 0.209+/-0.112 $\chi^2$/NDF:24.5/18

Out: 0.363+/-0.104 $\chi^2$/NDF:22.1/23

All: 0.291+/-0.076 $\chi^2$/NDF: 47.6/42




Right In: 0.006+/-0.007 $\chi^2$/NDF: 17.6/15

Left Out: 0.022+/-0.008 $\chi^2$/NDF:5.3/4

Right Out: 0.002+/-0.007 $\chi^2$/NDF: 8753.3/18

Left In: 0.028+/-0.009 $\chi^2$/NDF:1.3/2

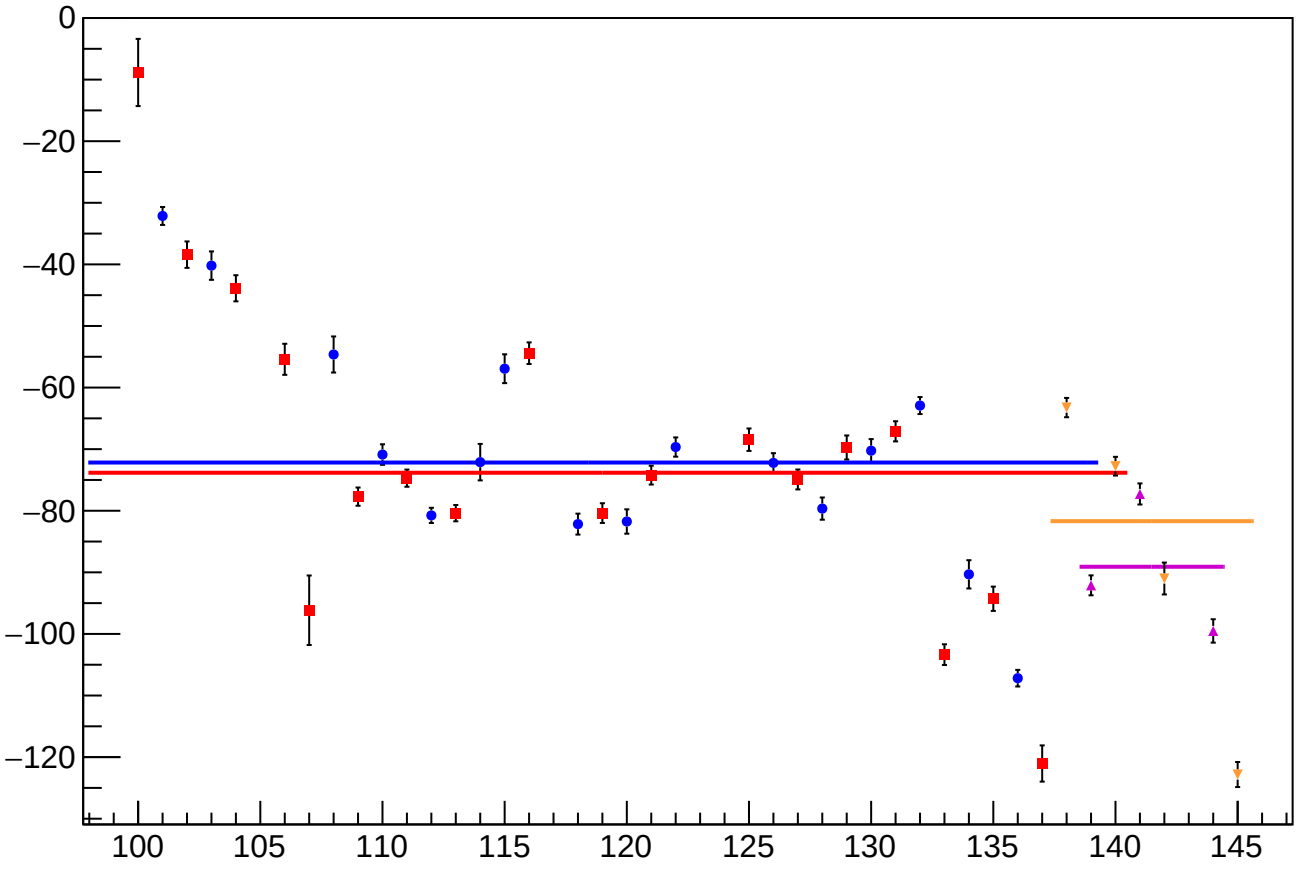
Left: 0.025+/-0.006 $\chi^2$/NDF: 6.9/7

Right: 0.004+/-0.005 $\chi^2$/NDF: 8771.0/34

In: 0.015+/-0.006 $\chi^2$/NDF:22.5/18

Out: 0.012+/-0.005 $\chi^2$/NDF:8762.0/23

All: 0.013+/-0.004 $\chi^2$/NDF: 8784.7/42




Right In: -72.173+/-0.432 $\chi^2$/NDF: 1936.0/15

Left Out: -81.688+/-0.901 $\chi^2$/NDF:595.3/3

Right Out: -73.831+/-0.431 $\chi^2$/NDF: 1557.7/17

Left In: -89.094+/-1.000 $\chi^2$/NDF:81.1/2

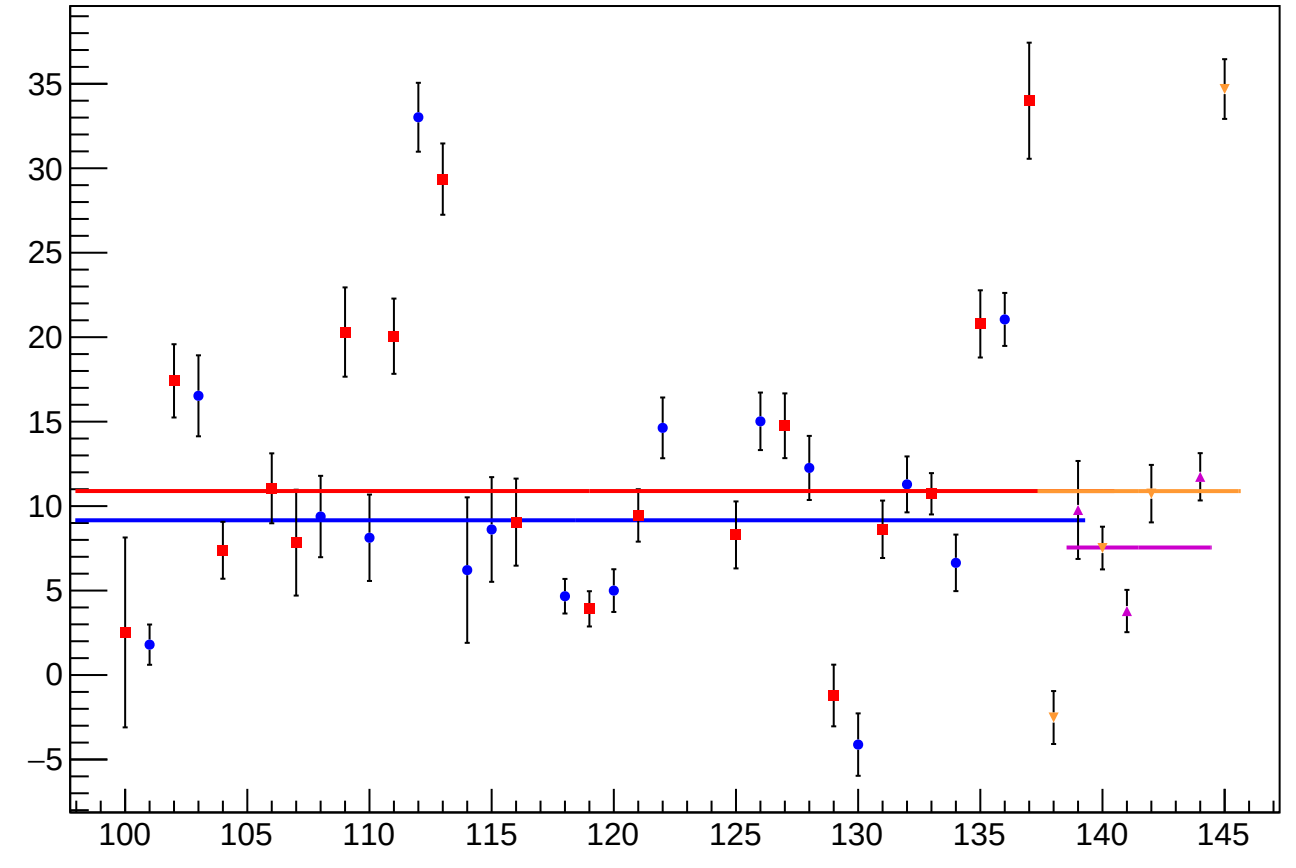
Left: -85.007+/-0.670 $\chi^2$/NDF: 706.7/6

Right: -73.004+/-0.305 $\chi^2$/NDF: 3501.0/33

In: -74.833+/-0.397 $\chi^2$/NDF:2258.3/18

Out: -75.290+/-0.389 $\chi^2$/NDF:2214.8/21

All: -75.066+/-0.278 $\chi^2$/NDF: 4473.8/40




Right In: 9.161+/-0.425 $\chi^2$/NDF: 352.1/15

Left Out: 10.887+/-0.767 $\chi^2$/NDF:261.6/3

Right Out: 10.892+/-0.440 $\chi^2$/NDF: 290.2/17

Left In: 7.549+/-0.888 $\chi^2$/NDF:18.5/2

Left: 9.461+/-0.581 $\chi^2$/NDF: 288.2/6

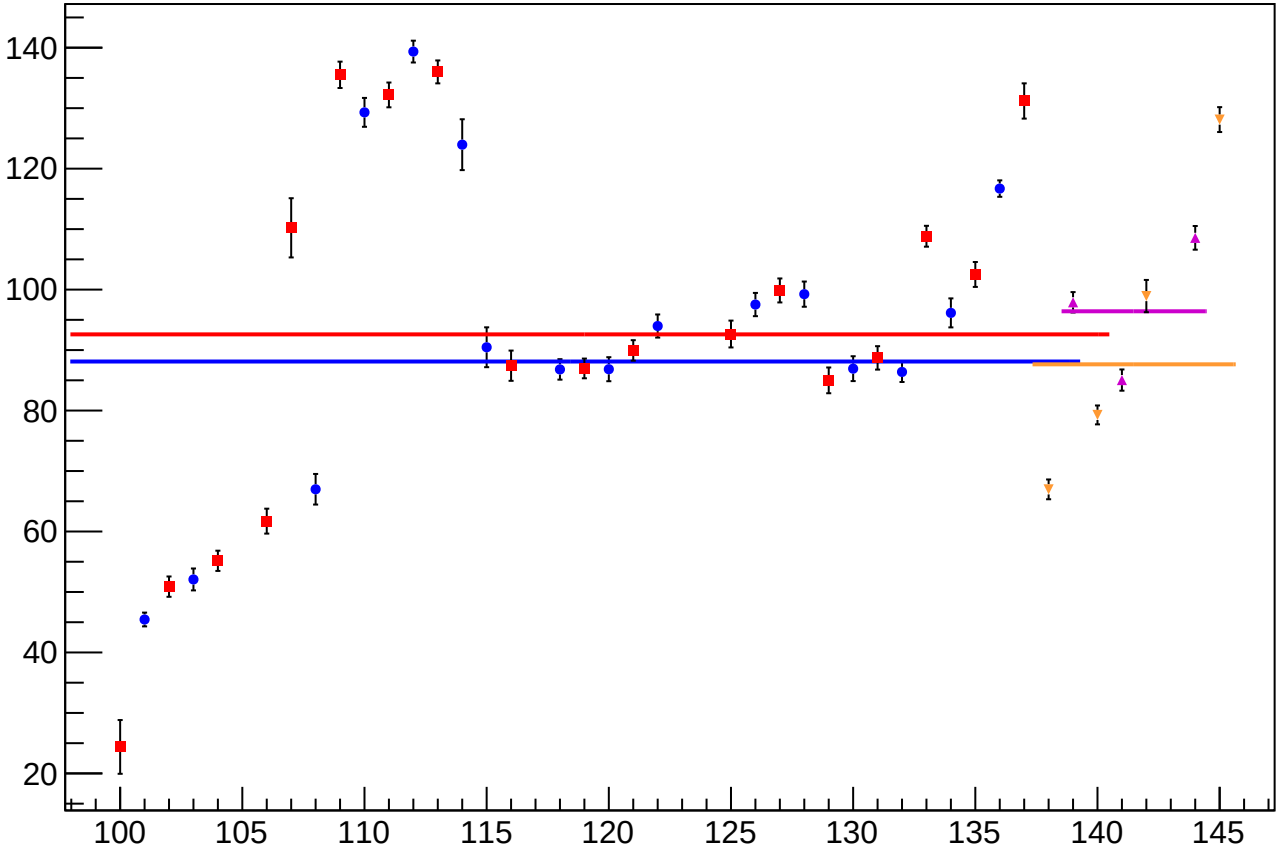
Right: 9.996+/-0.306 $\chi^2$/NDF: 650.3/33

In: 8.860+/-0.383 $\chi^2$/NDF:373.3/18

Out: 10.891+/-0.382 $\chi^2$/NDF:551.8/21

All: 9.880+/-0.271 $\chi^2$/NDF: 939.2/40

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 88.109+/-0.469 $\chi^2$/NDF: 3561.7/15

Left Out: 87.644+/-0.929 $\chi^2$/NDF:592.5/3

Right Out: 92.596+/-0.483 $\chi^2$/NDF: 3211.0/17

Left In: 96.414+/-1.034 $\chi^2$/NDF:81.2/2

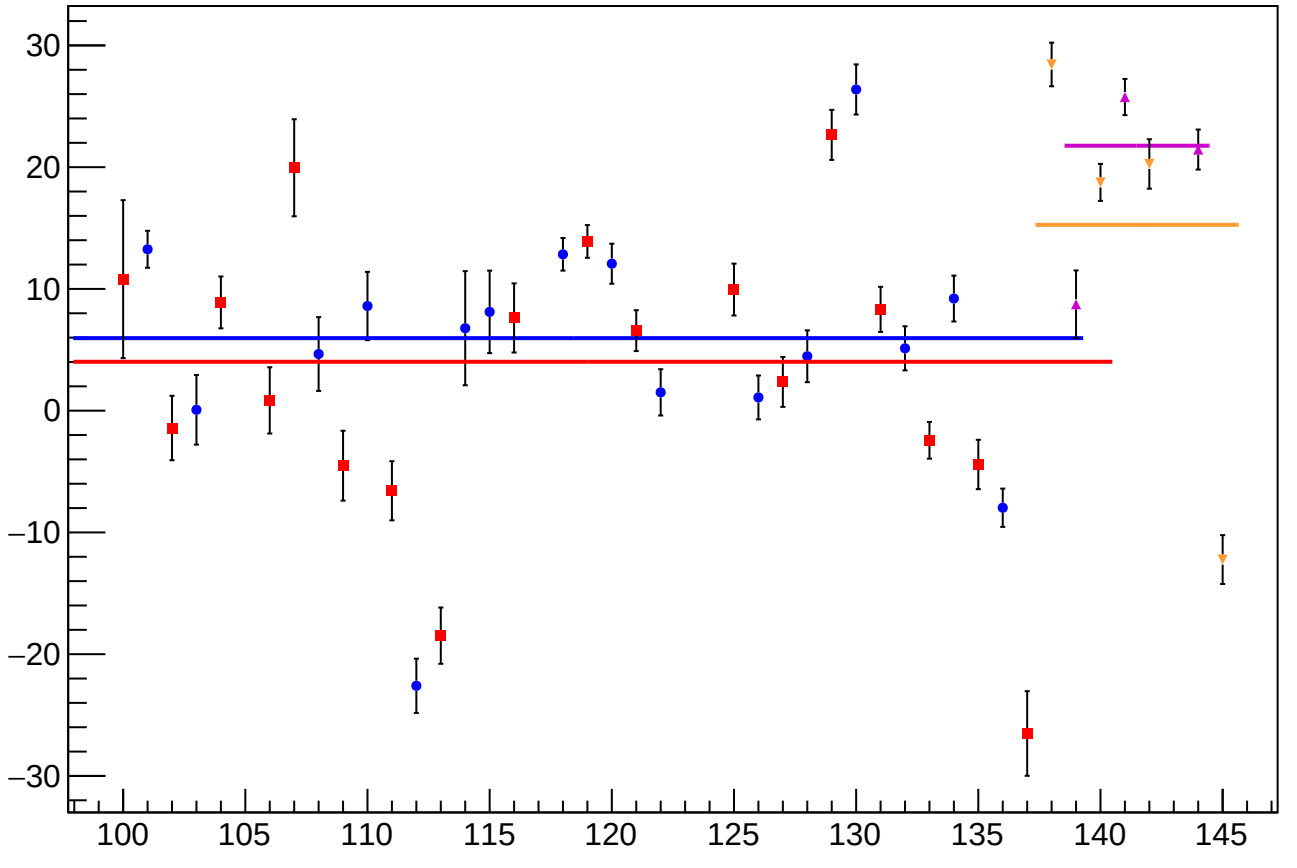
Left: 91.562+/-0.691 $\chi^2$/NDF: 713.6/6

Right: 90.284+/-0.336 $\chi^2$/NDF: 6817.1/33

In: 89.525+/-0.427 $\chi^2$/NDF:3696.4/18

Out: 91.542+/-0.429 $\chi^2$/NDF:3825.9/21

All: 90.529+/-0.302 $\chi^2$/NDF: 7533.5/40




Right In: 5.958+/-0.495 $\chi^2$/NDF: 426.8/15

Left Out: 15.264+/-0.899 $\chi^2$/NDF:253.2/3

Right Out: 4.017+/-0.510 $\chi^2$/NDF: 417.7/17

Left In: 21.764+/-1.026 $\chi^2$/NDF:29.2/2

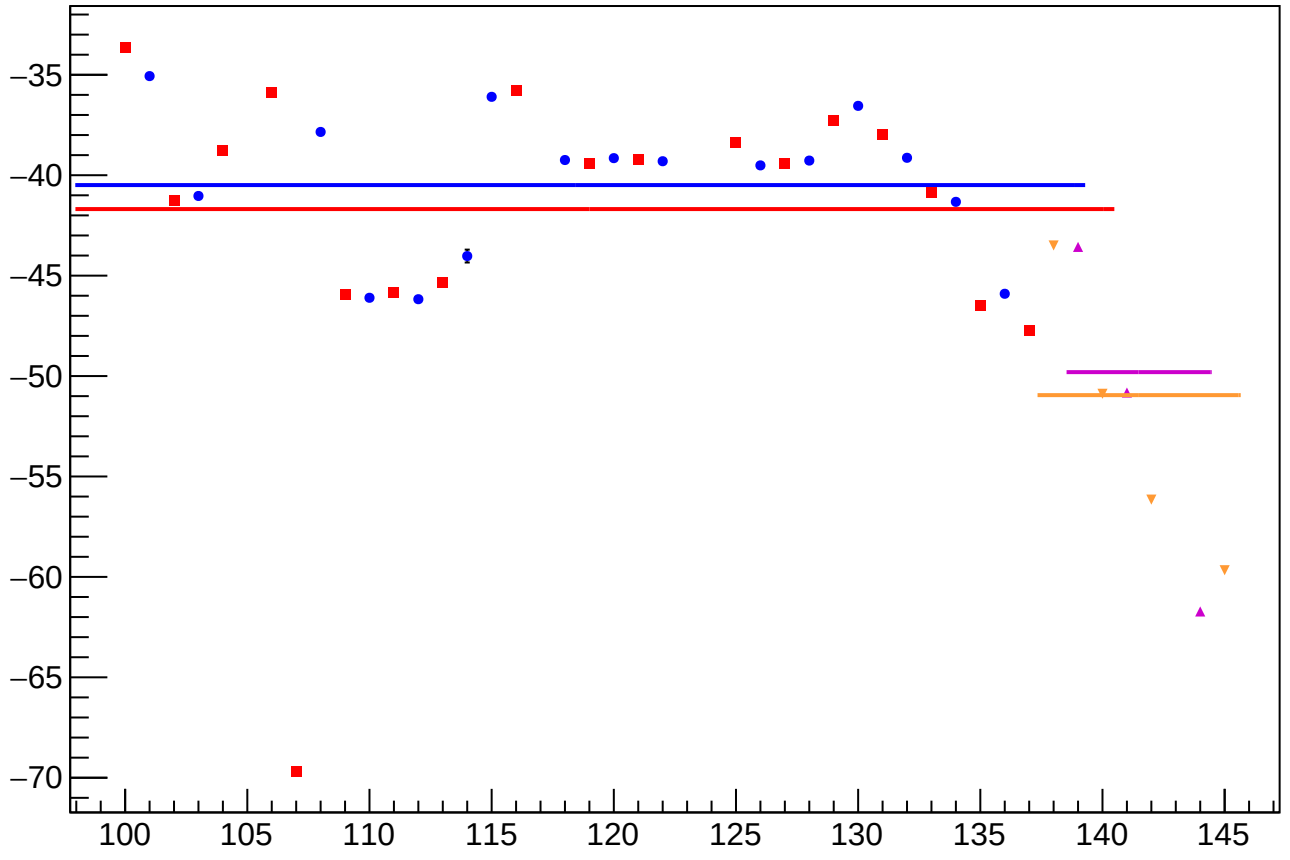
Left: 18.089+/-0.676 $\chi^2$/NDF: 305.1/6

Right: 5.016+/-0.355 $\chi^2$/NDF: 851.9/33

In: 8.940+/-0.446 $\chi^2$/NDF:648.6/18

Out: 6.750+/-0.443 $\chi^2$/NDF:789.3/21

All: 7.840+/-0.314 $\chi^2$/NDF: 1450.0/40




Right In: -40.491+/-0.028 $\chi^2$/NDF: 18125.4/15

Left Out: -50.950+/-0.039 $\chi^2$/NDF:26704.4/3

Right Out: -41.686+/-0.029 $\chi^2$/NDF: 36838.6/17

Left In: -49.805+/-0.041 $\chi^2$/NDF:29398.9/2

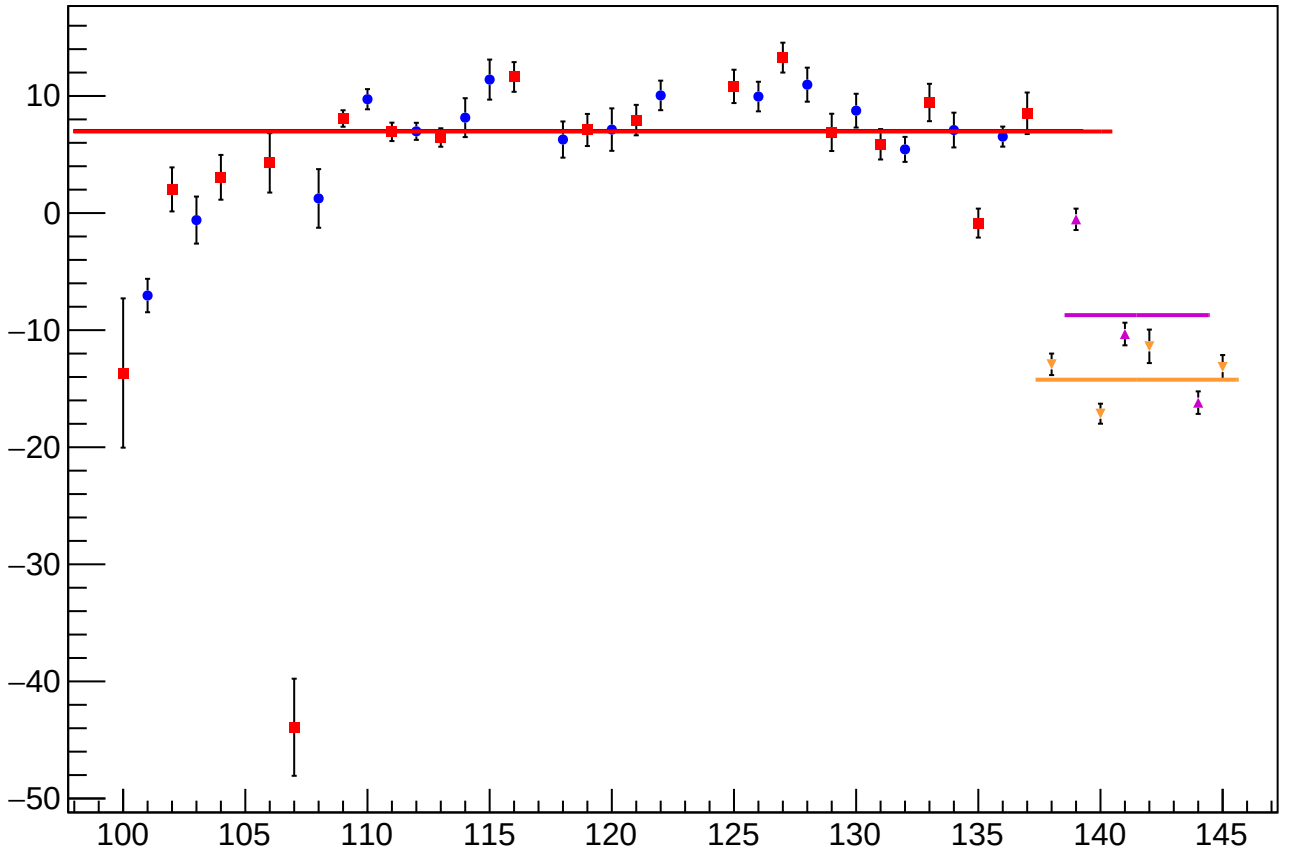
Left: -50.410+/-0.028 $\chi^2$/NDF: 56519.8/6

Right: -41.069+/-0.020 $\chi^2$/NDF: 55825.2/33

In: -43.518+/-0.023 $\chi^2$/NDF:82696.2/18

Out: -45.073+/-0.023 $\chi^2$/NDF:100218.0/21

All: -44.295+/-0.016 $\chi^2$/NDF: 185145.3/40




Right In: 7.011+/-0.309 $\chi^2$/NDF: 156.3/15

Left Out: -14.231+/-0.500 $\chi^2$/NDF:18.7/3

Right Out: 6.967+/-0.298 $\chi^2$/NDF: 266.0/17

Left In: -8.717+/-0.546 $\chi^2$/NDF:143.4/2

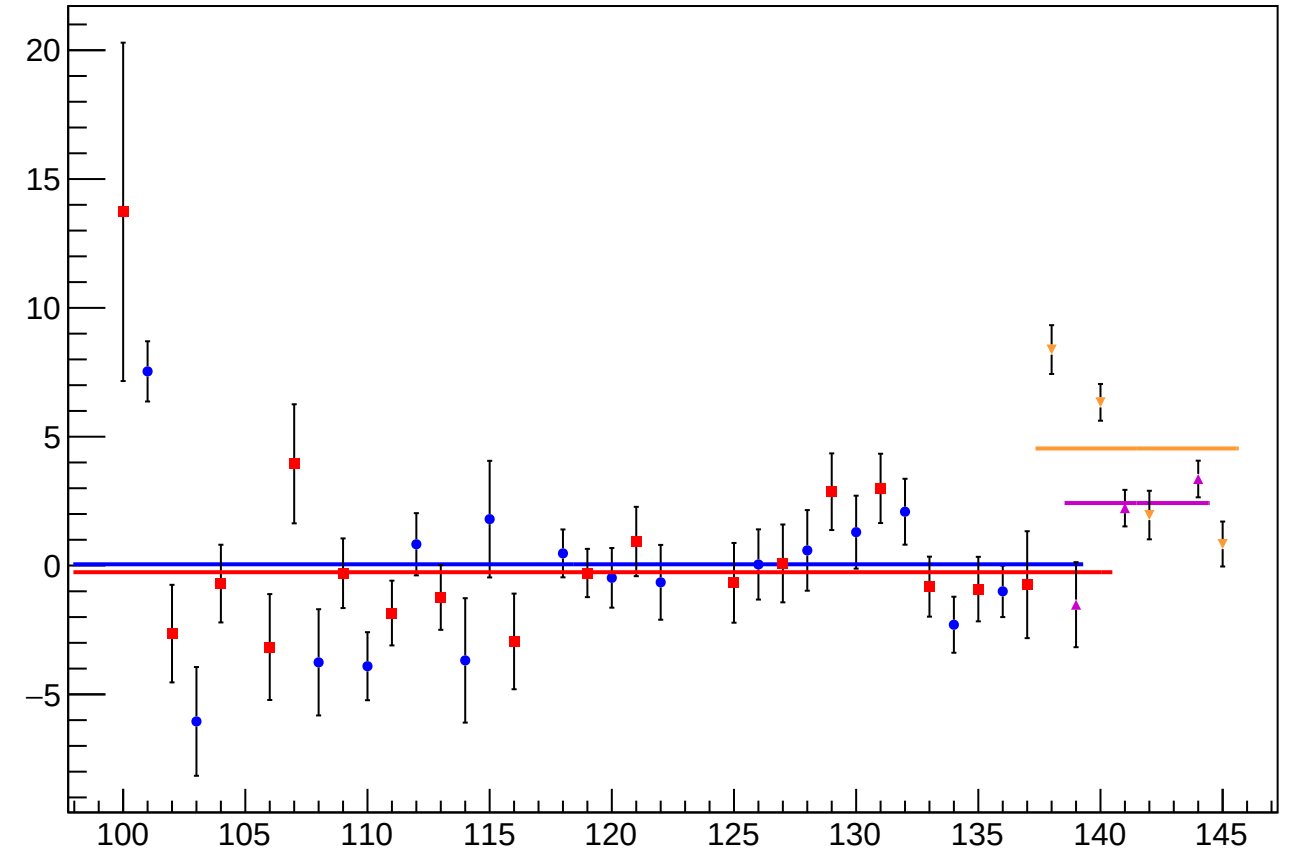
Left: -11.717+/-0.369 $\chi^2$/NDF: 217.4/6

Right: 6.988+/-0.215 $\chi^2$/NDF: 422.3/33

In: 3.195+/-0.269 $\chi^2$/NDF:927.2/18

Out: 1.409+/-0.256 $\chi^2$/NDF:1609.7/21

All: 2.258+/-0.186 $\chi^2$/NDF: 2560.0/40




Right In: 0.048+/-0.331 $\chi^2$/NDF: 75.0/15

Left Out: 4.544+/-0.426 $\chi^2$/NDF:48.3/3

Right Out: -0.259+/-0.344 $\chi^2$/NDF: 27.5/17

Left In: 2.426+/-0.480 $\chi^2$/NDF:7.5/2

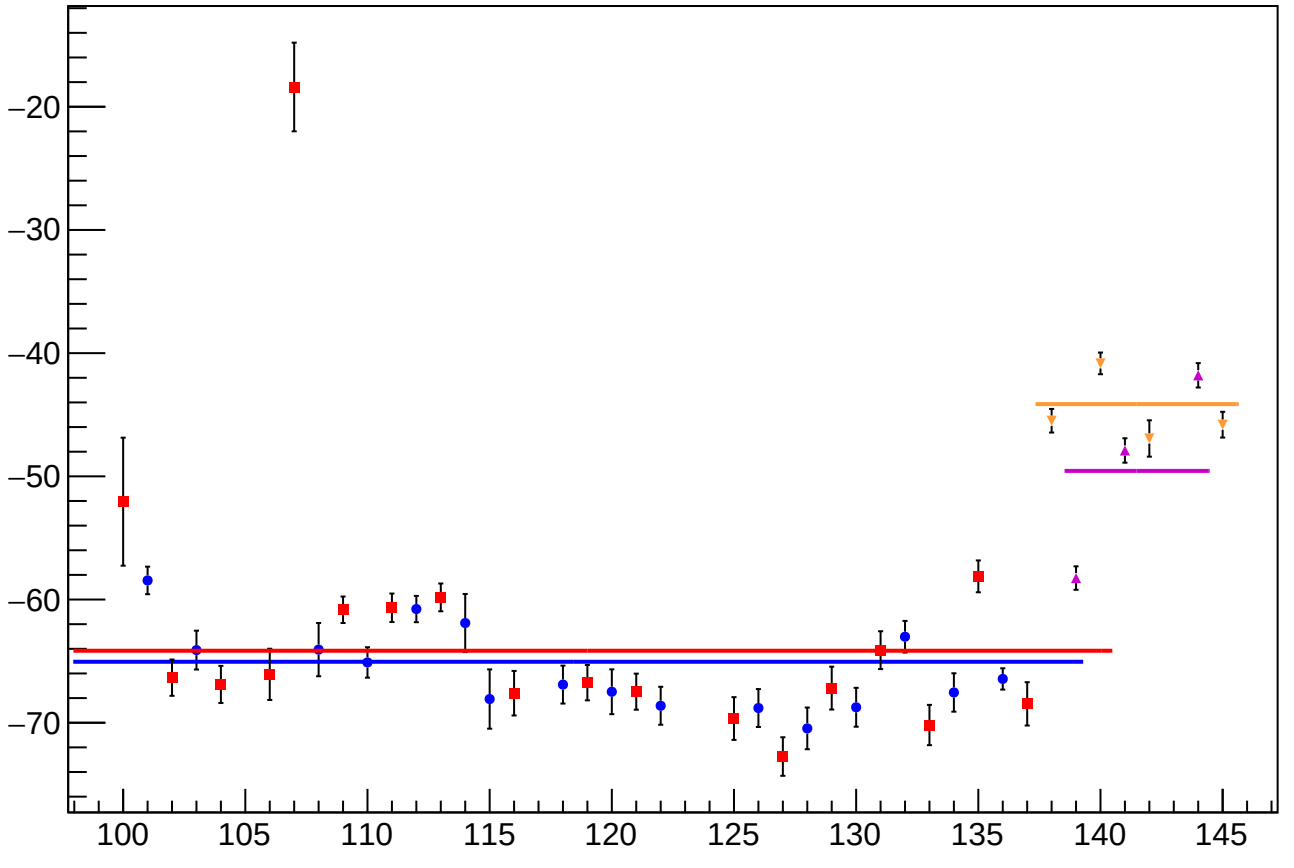
Left: 3.612+/-0.319 $\chi^2$/NDF: 66.7/6

Right: -0.099+/-0.239 $\chi^2$/NDF: 102.9/33

In: 0.815+/-0.273 $\chi^2$/NDF:99.1/18

Out: 1.641+/-0.268 $\chi^2$/NDF:152.7/21

All: 1.236+/-0.191 $\chi^2$/NDF: 256.5/40




Right In: -65.051+/-0.354 $\chi^2$/NDF: 92.8/15

Left Out: -44.136+/-0.516 $\chi^2$/NDF:22.3/3

Right Out: -64.156+/-0.360 $\chi^2$/NDF: 303.7/17

Left In: -49.558+/-0.564 $\chi^2$/NDF:147.6/2

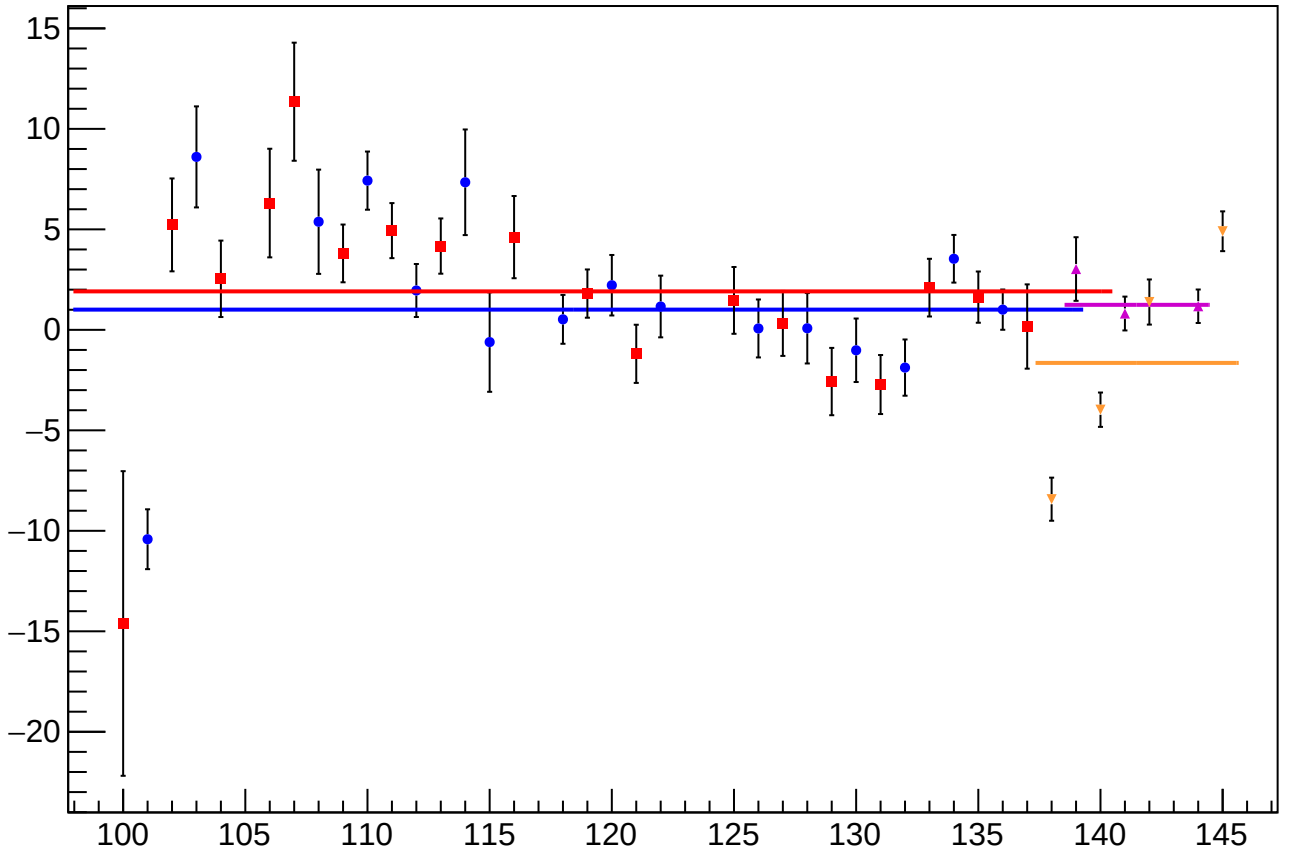
Left: -46.605+/-0.381 $\chi^2$/NDF: 220.2/6

Right: -64.611+/-0.253 $\chi^2$/NDF: 399.6/33

In: -60.676+/-0.300 $\chi^2$/NDF:781.4/18

Out: -57.590+/-0.295 $\chi^2$/NDF:1337.7/21

All: -59.110+/-0.210 $\chi^2$/NDF: 2172.8/40




Right In: 1.006+/-0.376 $\chi^2$/NDF: 109.2/15

Left Out: -1.645+/-0.497 $\chi^2$/NDF:98.4/3

Right Out: 1.914+/-0.390 $\chi^2$/NDF: 54.5/17

Left In: 1.244+/-0.554 $\chi^2$/NDF:1.5/2

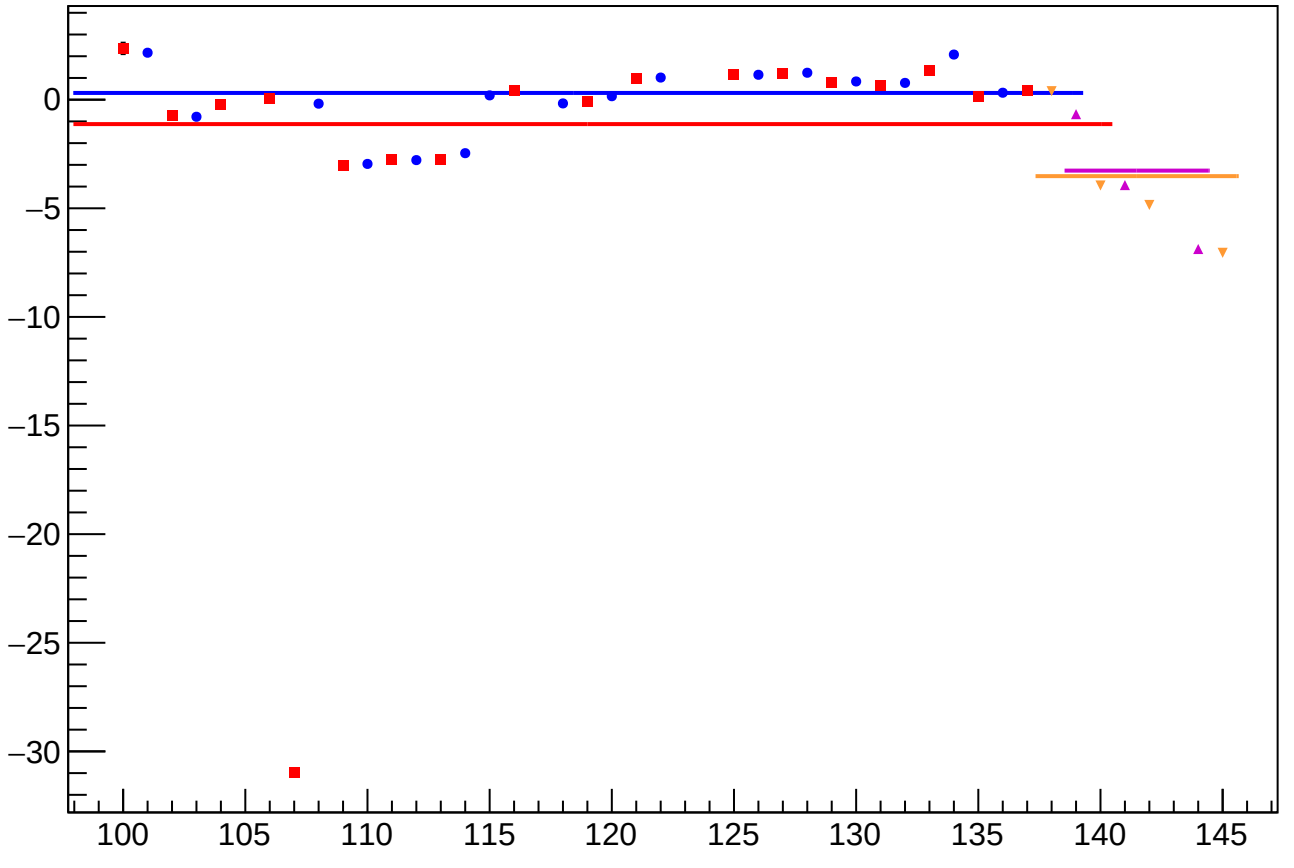
Left: -0.358+/-0.370 $\chi^2$/NDF: 115.1/6

Right: 1.443+/-0.270 $\chi^2$/NDF: 166.5/33

In: 1.081+/-0.311 $\chi^2$/NDF:110.9/18

Out: 0.558+/-0.307 $\chi^2$/NDF:184.7/21

All: 0.816+/-0.218 $\chi^2$/NDF: 297.0/40




Right In: 0.310+/-0.021 $\chi^2$/NDF: 4848.4/15

Left Out: -3.520+/-0.021 $\chi^2$/NDF:18556.7/3

Right Out: -1.124+/-0.022 $\chi^2$/NDF: 46347.9/17

Left In: -3.265+/-0.022 $\chi^2$/NDF:12739.4/2

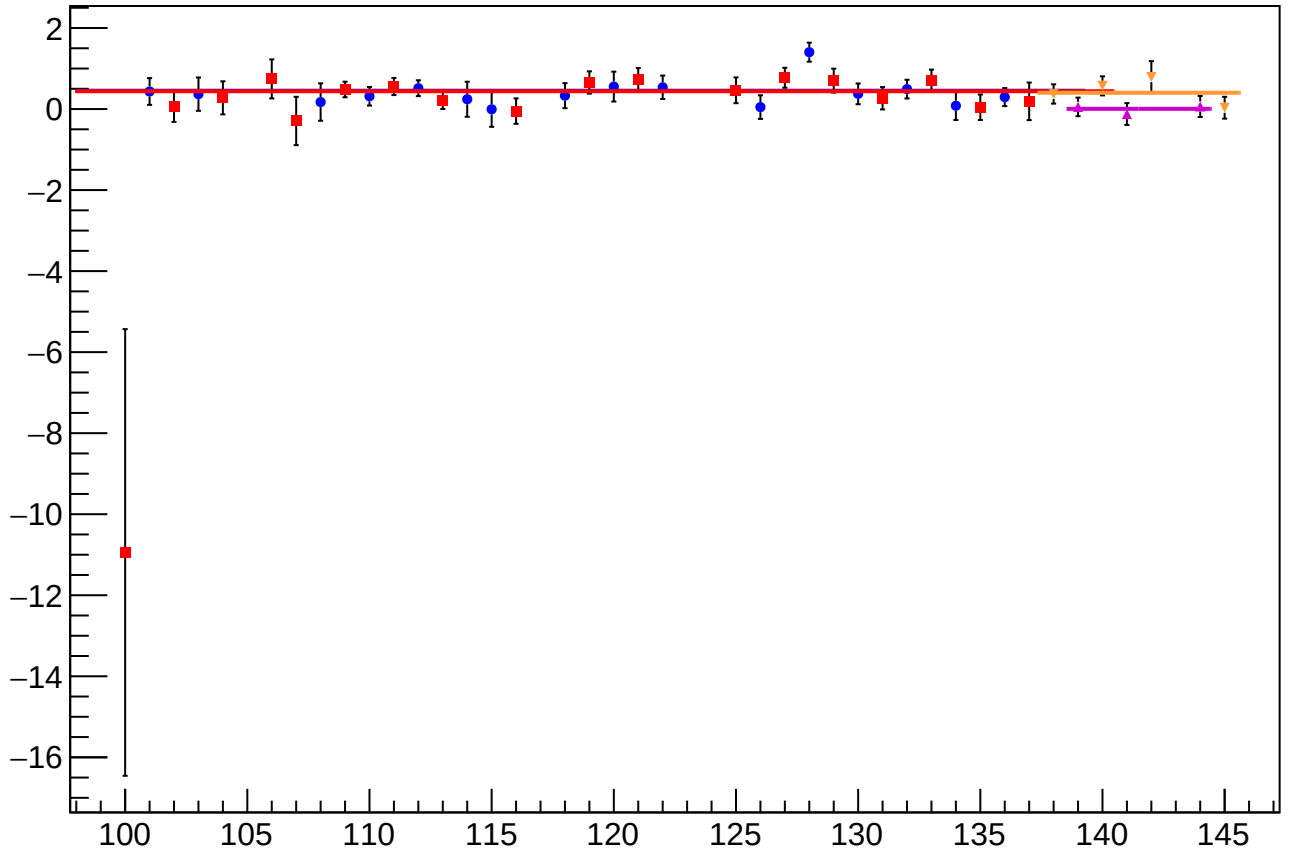
Left: -3.399+/-0.015 $\chi^2$/NDF: 31364.1/6

Right: -0.369+/-0.015 $\chi^2$/NDF: 53391.3/33

In: -1.364+/-0.015 $\chi^2$/NDF:31080.1/18

Out: -2.375+/-0.015 $\chi^2$/NDF:70980.5/21

All: -1.870+/-0.011 $\chi^2$/NDF: 104228.4/40




Right In: 0.452+/-0.071 $\chi^2$/NDF: 22.6/15

Left Out: 0.402+/-0.134 $\chi^2$/NDF:3.4/3

Right Out: 0.440+/-0.070 $\chi^2$/NDF: 18.5/17

Left In: 0.005+/-0.145 $\chi^2$/NDF:0.3/2

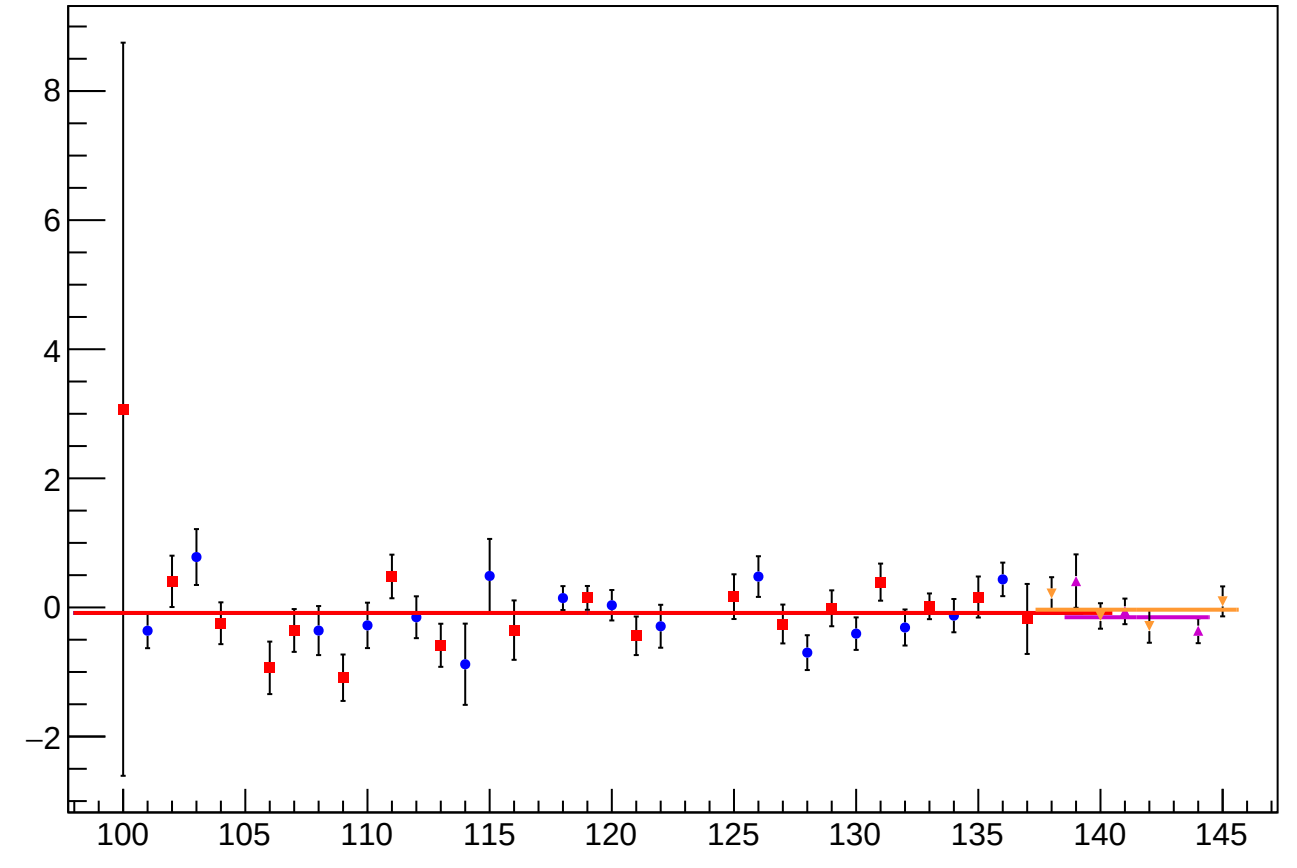
Left: 0.219+/-0.098 $\chi^2$/NDF: 7.7/6

Right: 0.446+/-0.050 $\chi^2$/NDF: 41.2/33

In: 0.365+/-0.064 $\chi^2$/NDF:30.6/18

Out: 0.432+/-0.062 $\chi^2$/NDF:22.0/21

All: 0.400+/-0.044 $\chi^2$/NDF: 53.2/40




Right In: -0.086+/-0.073 $\chi^2$/NDF: 25.4/15

Left Out: -0.035+/-0.116 $\chi^2$/NDF:2.5/3

Right Out: -0.085+/-0.074 $\chi^2$/NDF: 27.9/17

Left In: -0.152+/-0.131 $\chi^2$/NDF:3.2/2

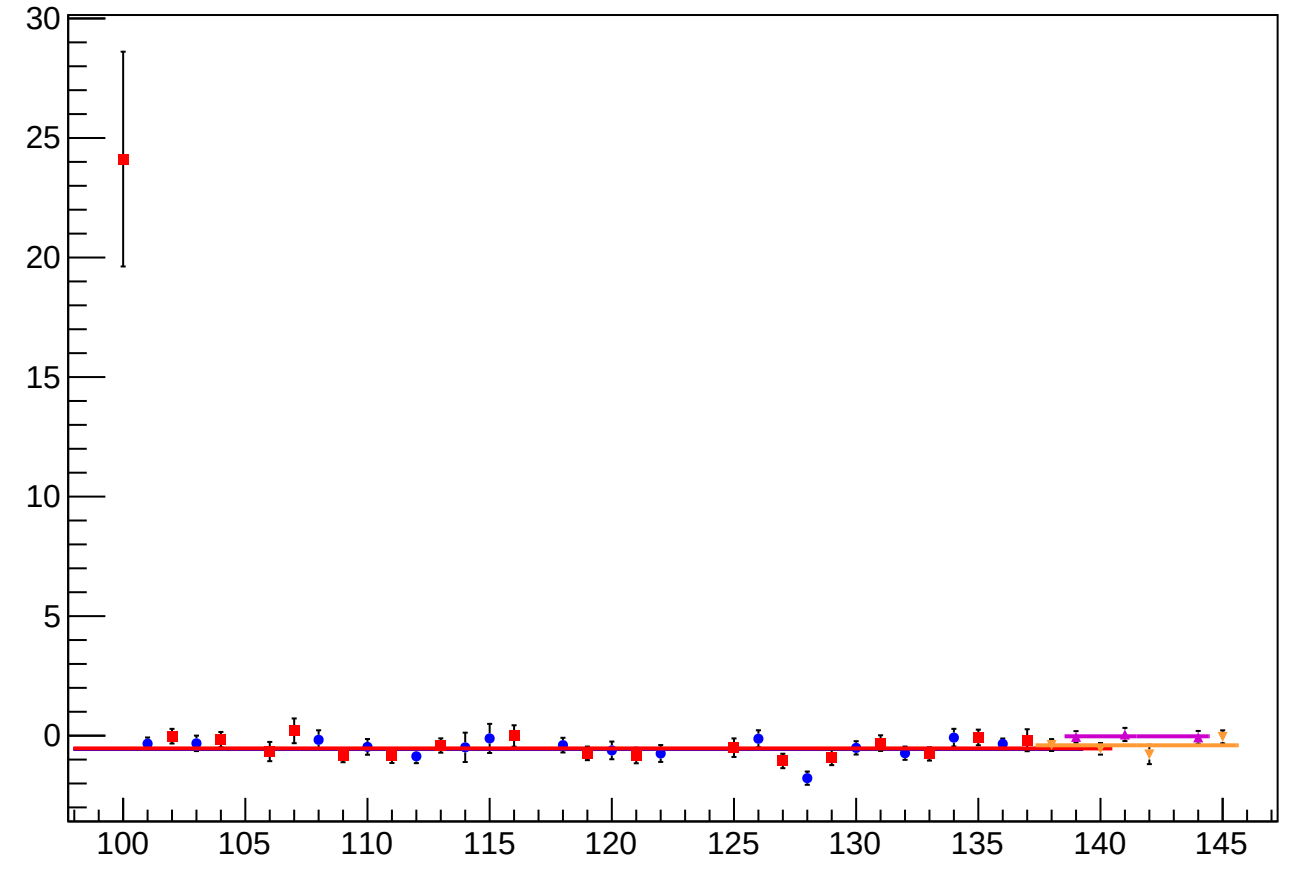
Left: -0.086+/-0.087 $\chi^2$/NDF: 6.1/6

Right: -0.086+/-0.052 $\chi^2$/NDF: 53.3/33

In: -0.102+/-0.064 $\chi^2$/NDF:28.8/18

Out: -0.071+/-0.062 $\chi^2$/NDF:30.5/21

All: -0.086+/-0.044 $\chi^2$/NDF: 59.4/40




Right In: -0.558+/-0.080 $\chi^2$/NDF: 28.3/15

Left Out: -0.403+/-0.138 $\chi^2$/NDF:2.9/3

Right Out: -0.534+/-0.081 $\chi^2$/NDF: 49.2/17

Left In: -0.027+/-0.150 $\chi^2$/NDF:0.1/2

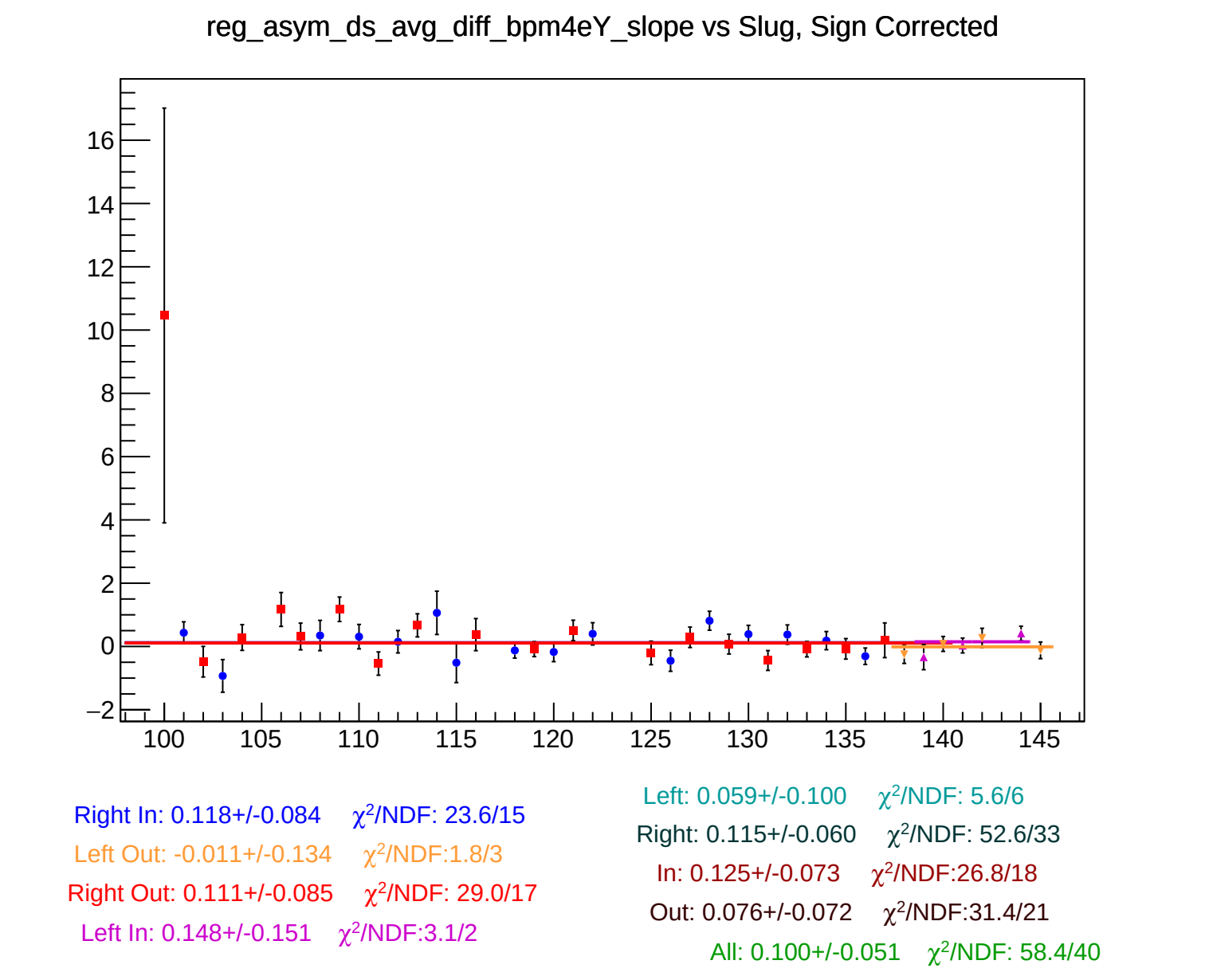
Left: -0.230+/-0.102 $\chi^2$/NDF: 6.4/6

Right: -0.546+/-0.057 $\chi^2$/NDF: 77.6/33

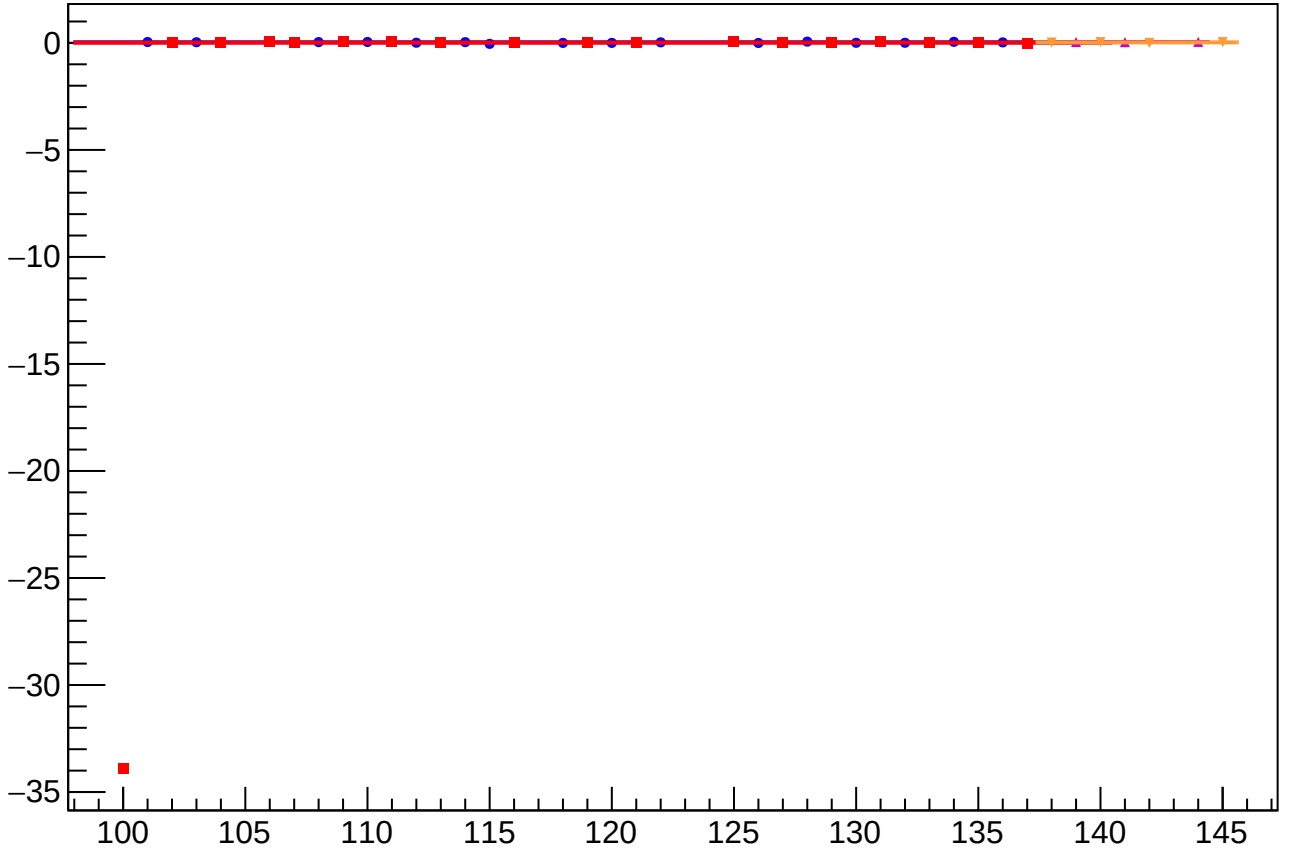
In: -0.441+/-0.070 $\chi^2$/NDF:38.3/18

Out: -0.500+/-0.070 $\chi^2$/NDF:52.7/21

All: -0.471+/-0.049 $\chi^2$/NDF: 91.4/40


reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
16
14
12
10
8
6
4
2
0
−2
100
105
110
115
120
125
130
135
140
145
Right In: 0.118+/-0.084 χ²/NDF: 23.6/15
Left Out: -0.011+/-0.134 χ²/NDF:1.8/3
Right Out: 0.111+/-0.085 χ²/NDF: 29.0/17
Left In: 0.148+/-0.151 χ²/NDF:3.1/2
Left: 0.059+/-0.100 χ²/NDF: 5.6/6
Right: 0.115+/-0.060 χ²/NDF: 52.6/33
In: 0.125+/-0.073 χ²/NDF:26.8/18
Out: 0.076+/-0.072 χ²/NDF:31.4/21
All: 0.100+/-0.051 χ²/NDF: 58.4/40

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.027+/-0.005 $\chi^2$/NDF: 14.7/15

Left Out: 0.025+/-0.006 $\chi^2$/NDF:5.2/3

Right Out: 0.012+/-0.005 $\chi^2$/NDF: 22262.0/17

Left In: 0.042+/-0.006 $\chi^2$/NDF:0.5/2

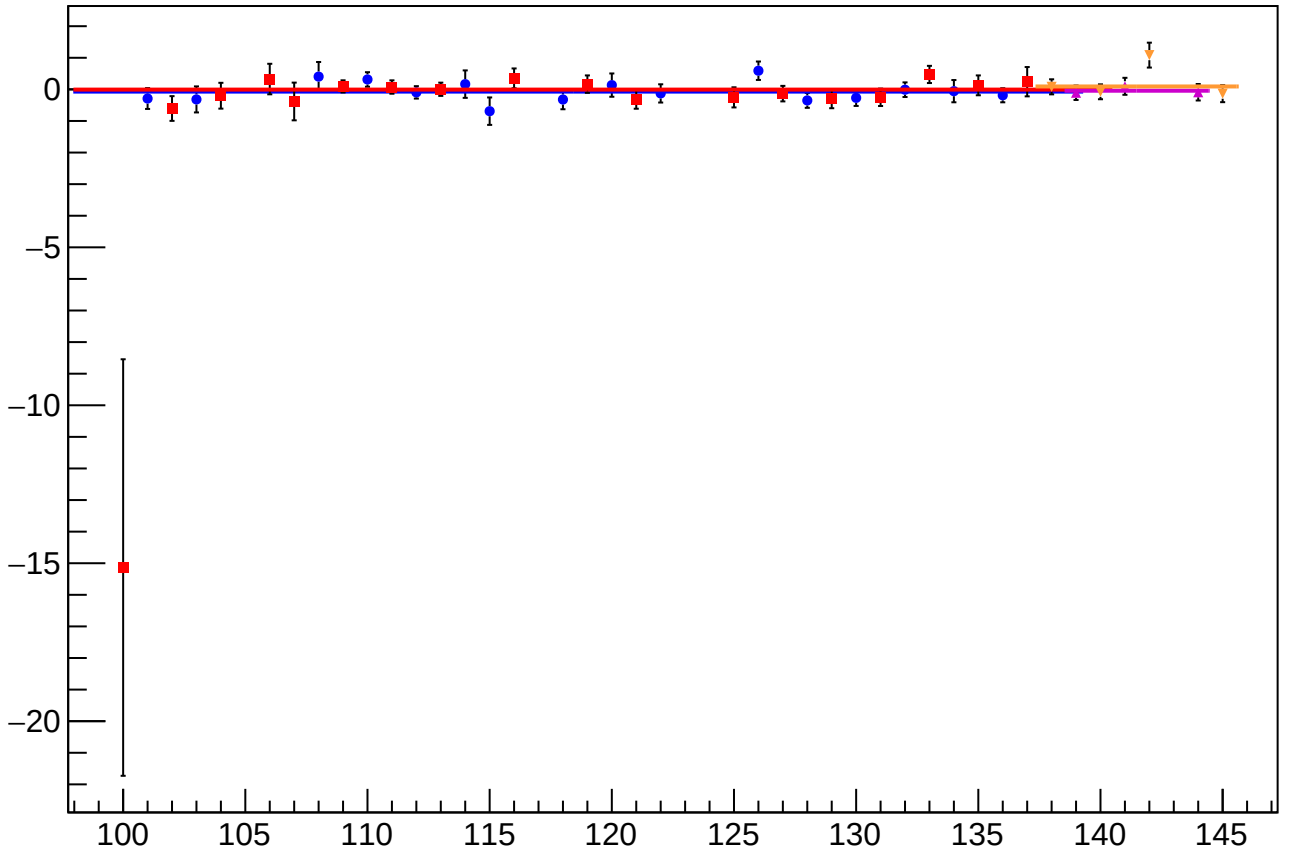
Left: 0.033+/-0.004 $\chi^2$/NDF: 10.2/6

Right: 0.020+/-0.003 $\chi^2$/NDF: 22281.9/33

In: 0.033+/-0.004 $\chi^2$/NDF:18.8/18

Out: 0.017+/-0.004 $\chi^2$/NDF:22270.2/21

All: 0.025+/-0.003 $\chi^2$/NDF: 22298.2/40




Right In: -0.070+/-0.071 $\chi^2$/NDF: 15.5/15

Left Out: 0.092+/-0.134 $\chi^2$/NDF:7.6/3

Right Out: -0.007+/-0.070 $\chi^2$/NDF: 18.1/17

Left In: -0.043+/-0.145 $\chi^2$/NDF:0.4/2

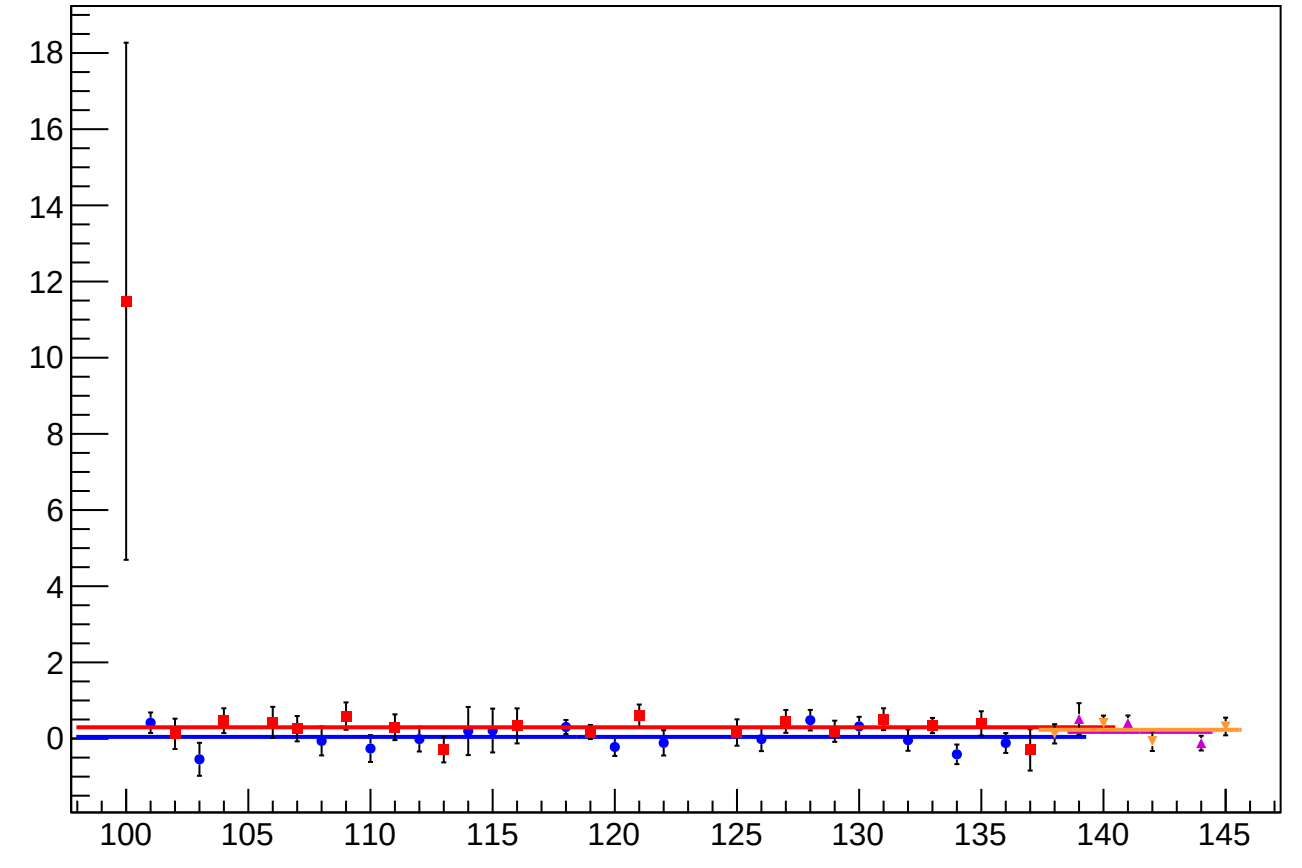
Left: 0.030+/-0.098 $\chi^2$/NDF: 8.4/6

Right: -0.038+/-0.050 $\chi^2$/NDF: 34.1/33

In: -0.065+/-0.064 $\chi^2$/NDF:15.9/18

Out: 0.014+/-0.062 $\chi^2$/NDF:26.2/21

All: -0.024+/-0.044 $\chi^2$/NDF: 42.9/40




Right In: 0.044+/-0.073 $\chi^2$/NDF: 15.7/15

Left Out: 0.231+/-0.116 $\chi^2$/NDF:2.4/3

Right Out: 0.296+/-0.074 $\chi^2$/NDF: 11.0/17

Left In: 0.175+/-0.131 $\chi^2$/NDF:4.4/2

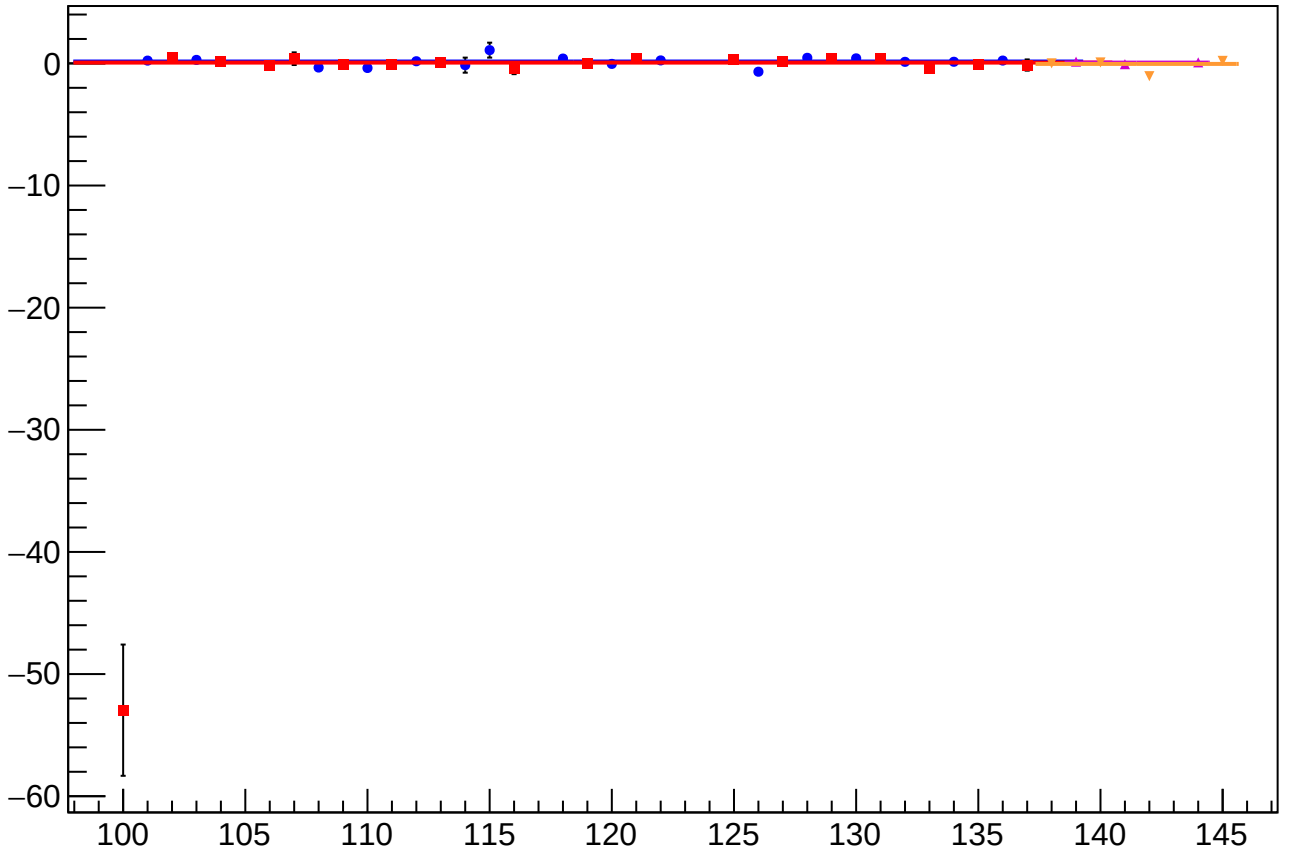
Left: 0.206+/-0.087 $\chi^2$/NDF: 6.9/6

Right: 0.169+/-0.052 $\chi^2$/NDF: 32.6/33

In: 0.075+/-0.064 $\chi^2$/NDF:20.9/18

Out: 0.277+/-0.062 $\chi^2$/NDF:13.6/21

All: 0.179+/-0.045 $\chi^2$/NDF: 39.7/40




Right In: 0.154+/-0.080 $\chi^2$/NDF: 15.6/15

Left Out: -0.043+/-0.138 $\chi^2$/NDF:7.2/3

Right Out: 0.065+/-0.081 $\chi^2$/NDF: 109.3/17

Left In: 0.064+/-0.150 $\chi^2$/NDF:0.3/2

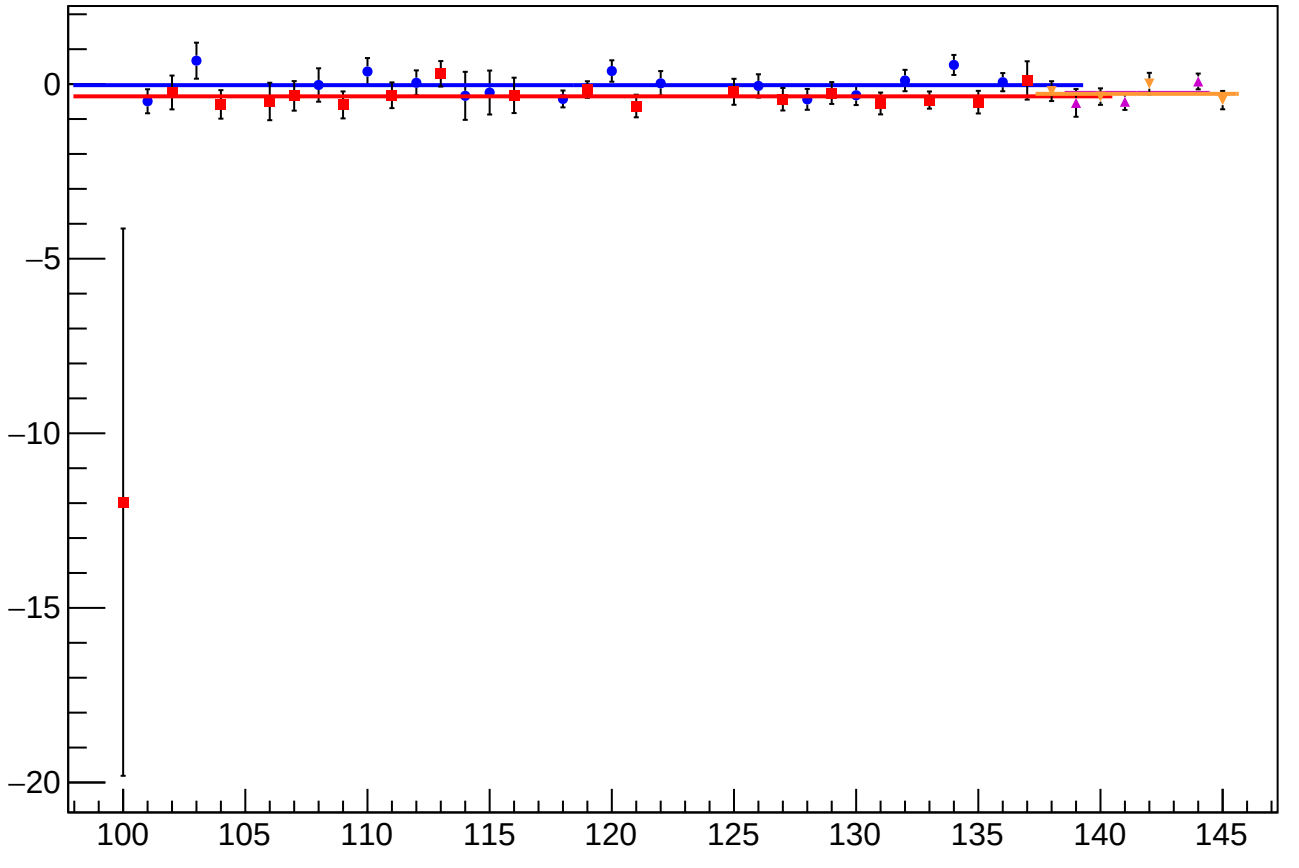
Left: 0.006+/-0.101 $\chi^2$/NDF: 7.8/6

Right: 0.110+/-0.057 $\chi^2$/NDF: 125.5/33

In: 0.134+/-0.070 $\chi^2$/NDF:16.2/18

Out: 0.038+/-0.070 $\chi^2$/NDF:117.0/21

All: 0.085+/-0.049 $\chi^2$/NDF: 134.1/40




Right In: -0.030+/-0.084 $\chi^2$/NDF: 16.8/15

Left Out: -0.279+/-0.134 $\chi^2$/NDF:1.5/3

Right Out: -0.350+/-0.085 $\chi^2$/NDF: 9.4/17

Left In: -0.252+/-0.151 $\chi^2$/NDF:3.8/2

Left: -0.267+/-0.100 $\chi^2$/NDF: 5.3/6

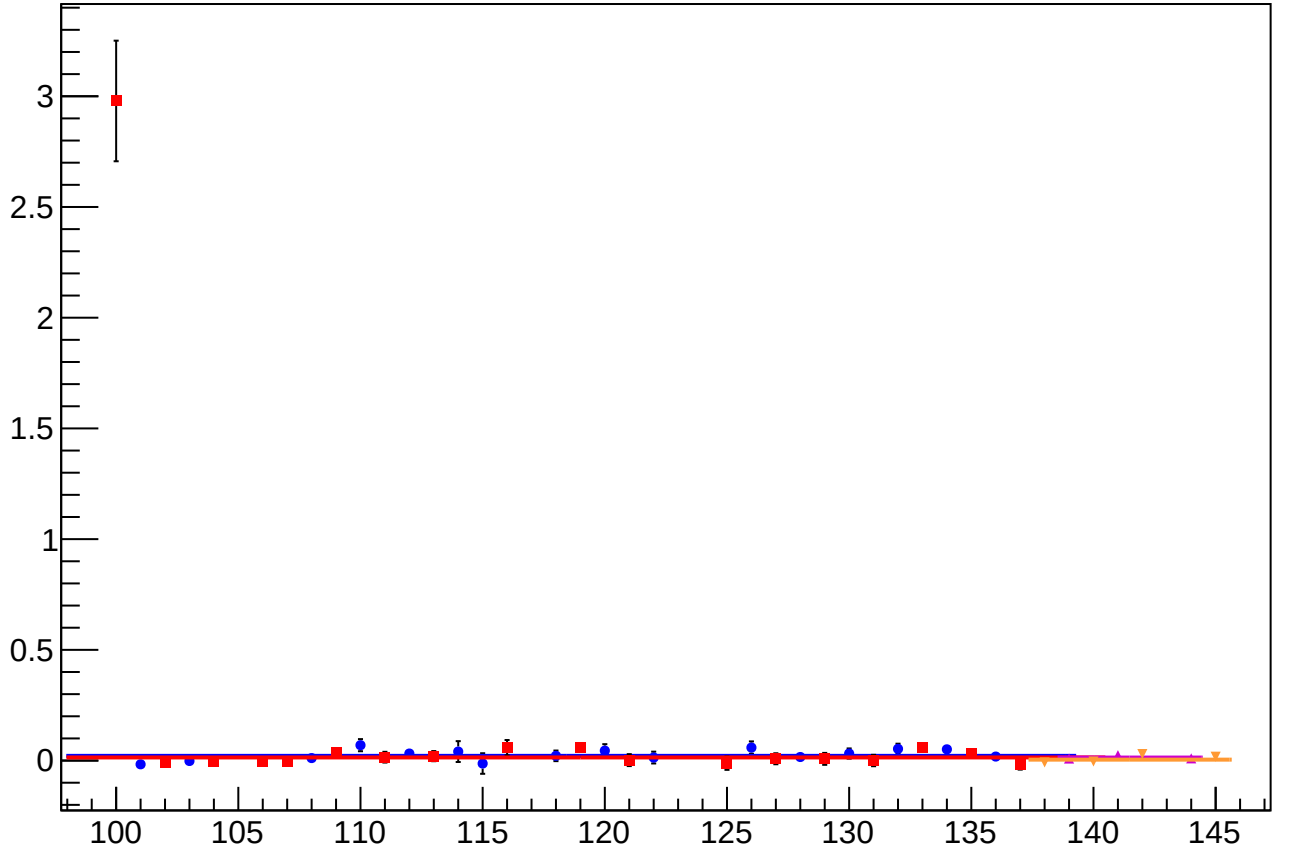
Right: -0.188+/-0.060 $\chi^2$/NDF: 33.4/33

In: -0.083+/-0.073 $\chi^2$/NDF:22.2/18

Out: -0.330+/-0.072 $\chi^2$/NDF:11.2/21

All: -0.209+/-0.051 $\chi^2$/NDF: 39.2/40

reg_asym_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.021+/-0.005 $\chi^2$/NDF: 22.5/15

Left Out: 0.004+/-0.006 $\chi^2$/NDF:6.0/3

Right Out: 0.014+/-0.005 $\chi^2$/NDF: 140.9/17

Left In: 0.014+/-0.006 $\chi^2$/NDF:1.3/2

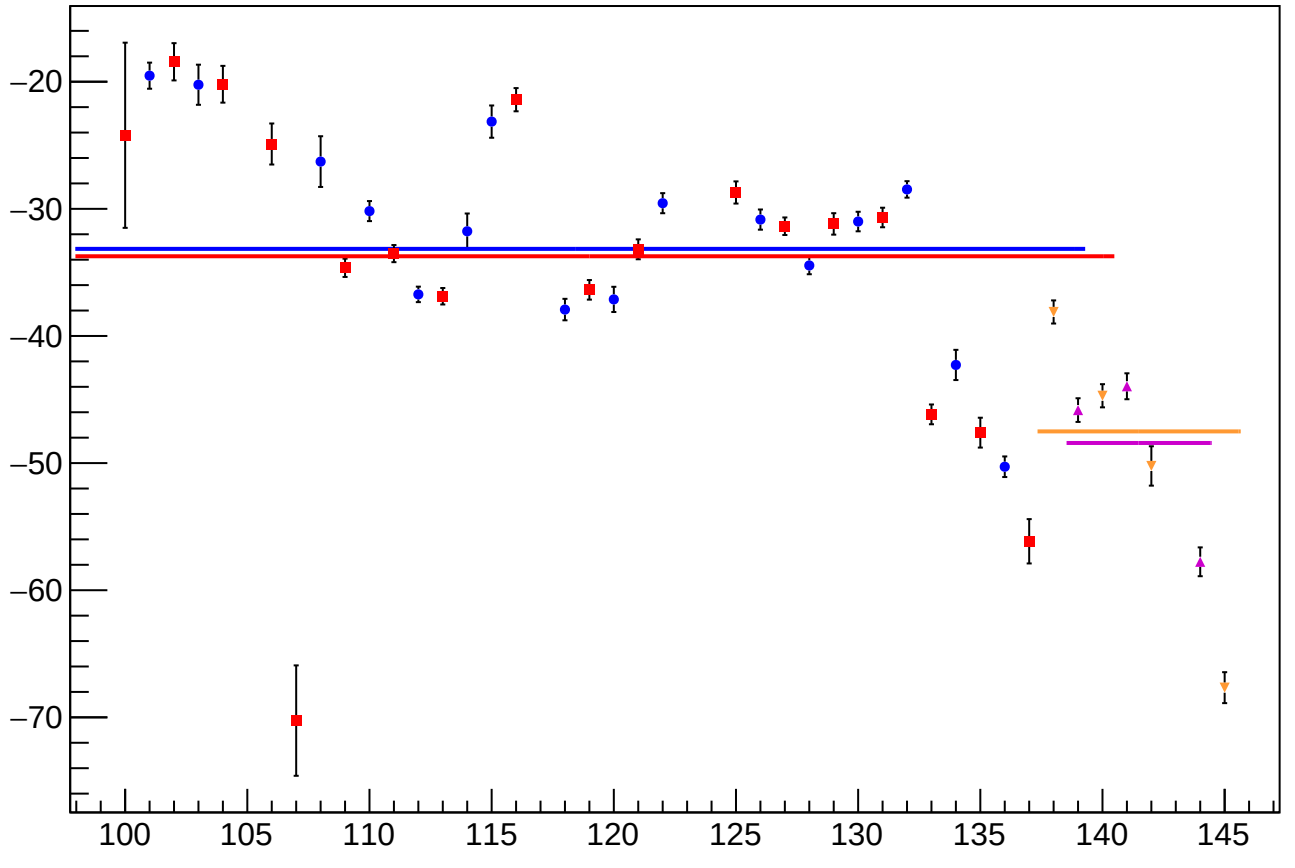
Left: 0.009+/-0.004 $\chi^2$/NDF: 8.6/6

Right: 0.018+/-0.003 $\chi^2$/NDF: 164.5/33

In: 0.018+/-0.004 $\chi^2$/NDF:24.8/18

Out: 0.010+/-0.004 $\chi^2$/NDF:148.7/21

All: 0.014+/-0.003 $\chi^2$/NDF: 176.0/40




Right In: -33.148+/-0.218 $\chi^2$/NDF: 1013.9/15

Left Out: -47.507+/-0.534 $\chi^2$/NDF:393.4/3

Right Out: -33.730+/-0.215 $\chi^2$/NDF: 1148.4/17

Left In: -48.417+/-0.588 $\chi^2$/NDF:94.8/2

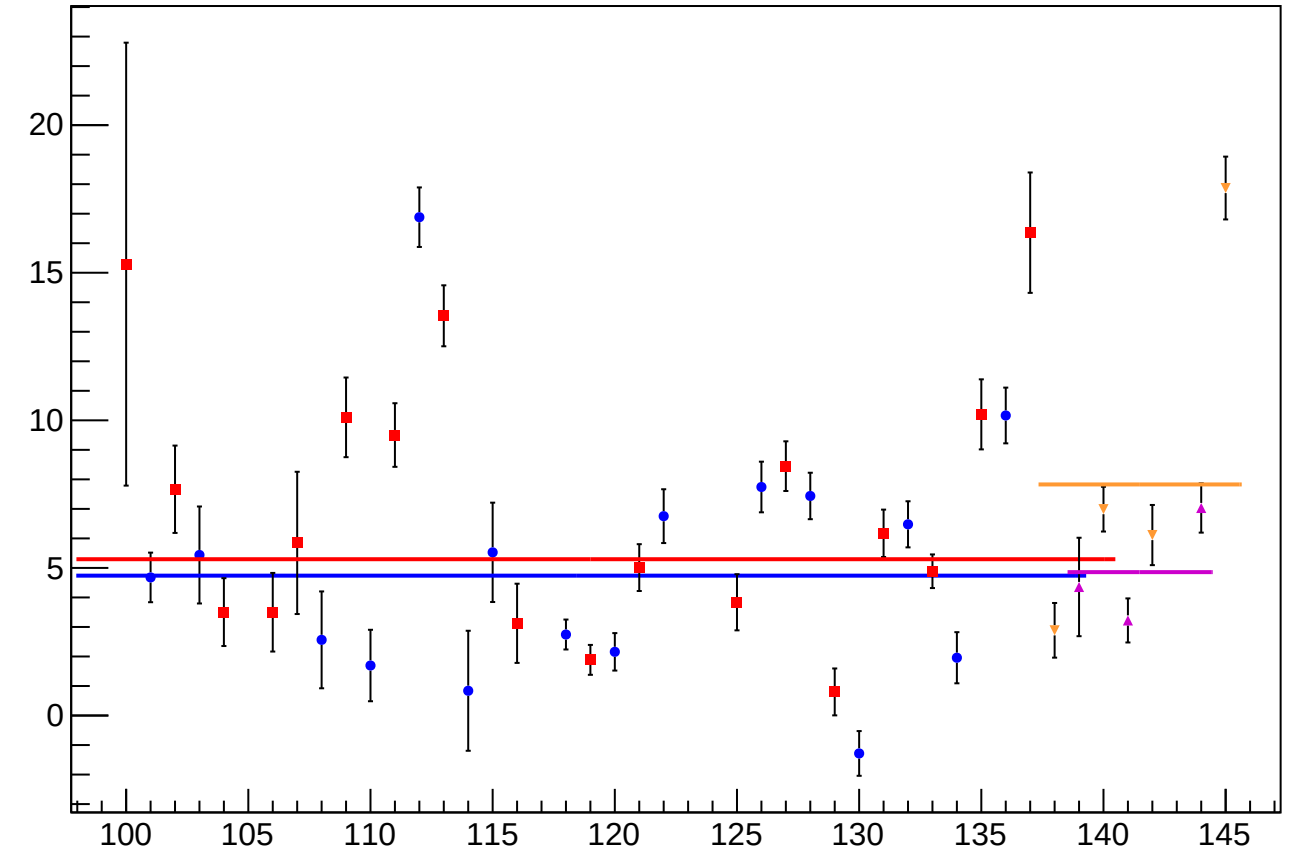
Left: -47.919+/-0.395 $\chi^2$/NDF: 489.5/6

Right: -33.443+/-0.153 $\chi^2$/NDF: 2166.0/33

In: -34.993+/-0.204 $\chi^2$/NDF:1701.5/18

Out: -35.649+/-0.199 $\chi^2$/NDF:2114.4/21

All: -35.329+/-0.143 $\chi^2$/NDF: 3821.2/40




Right In: 4.738+/-0.219 $\chi^2$/NDF: 329.6/15

Left Out: 7.828+/-0.459 $\chi^2$/NDF:121.6/3

Right Out: 5.295+/-0.223 $\chi^2$/NDF: 245.0/17

Left In: 4.858+/-0.528 $\chi^2$/NDF:11.7/2

Left: 6.550+/-0.346 $\chi^2$/NDF: 151.3/6

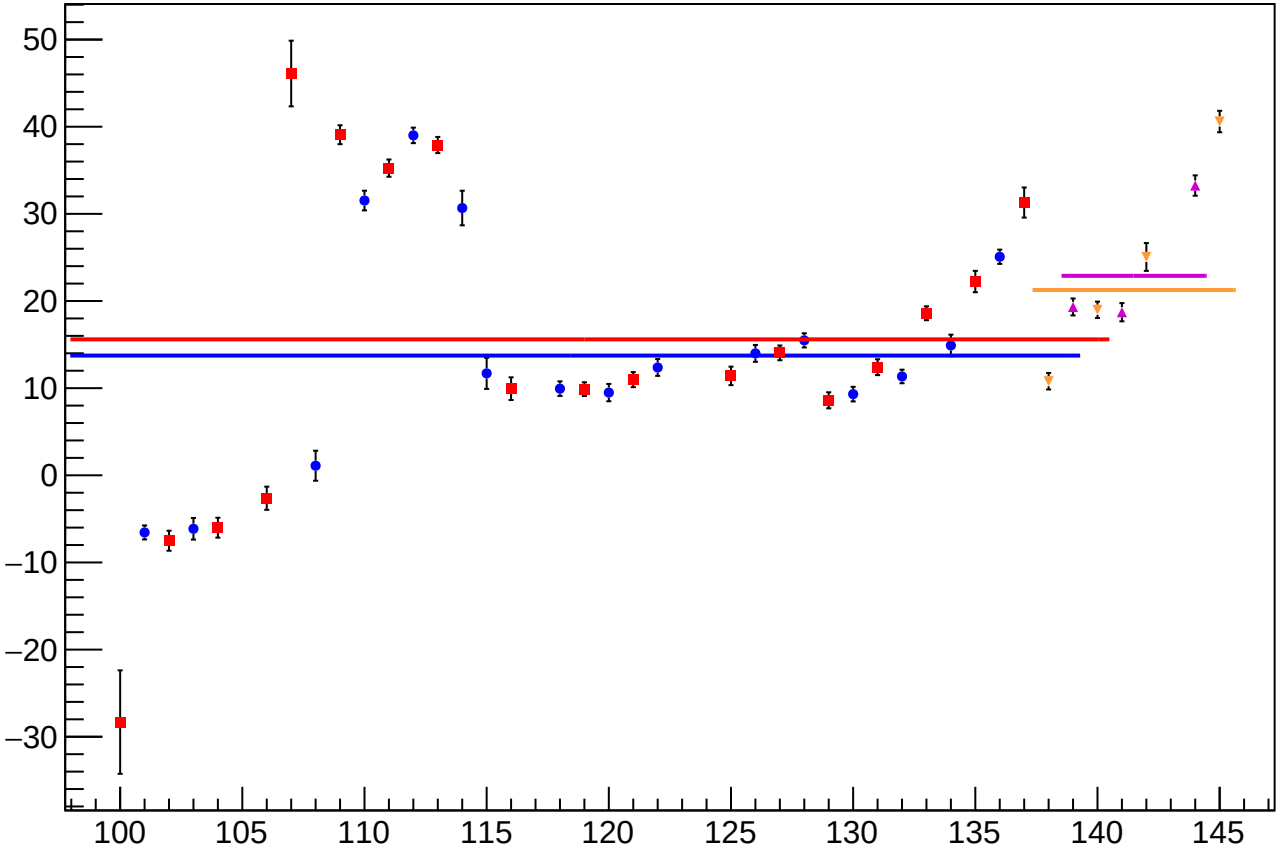
Right: 5.012+/-0.156 $\chi^2$/NDF: 577.8/33

In: 4.756+/-0.202 $\chi^2$/NDF:341.3/18

Out: 5.781+/-0.201 $\chi^2$/NDF:391.2/21

All: 5.272+/-0.143 $\chi^2$/NDF: 745.5/40

reg_asym_left_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 13.738+/-0.247 $\chi^2$/NDF: 2349.9/15

Left Out: 21.269+/-0.551 $\chi^2$/NDF:379.2/3

Right Out: 15.599+/-0.250 $\chi^2$/NDF: 2826.3/17

Left In: 22.893+/-0.608 $\chi^2$/NDF:108.2/2

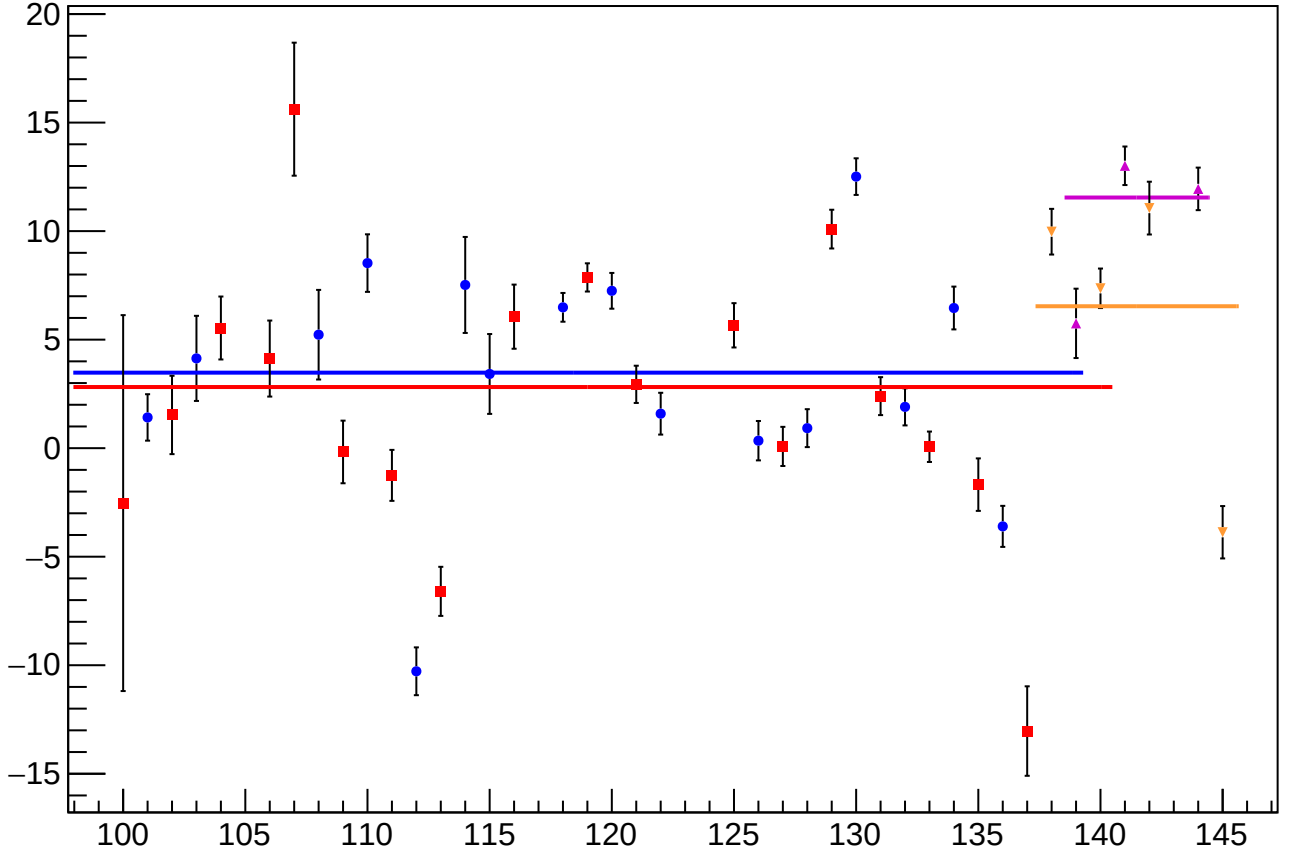
Left: 22.001+/-0.408 $\chi^2$/NDF: 491.4/6

Right: 14.656+/-0.176 $\chi^2$/NDF: 5204.2/33

In: 15.033+/-0.229 $\chi^2$/NDF:2652.9/18

Out: 16.569+/-0.228 $\chi^2$/NDF:3293.4/21

All: 15.804+/-0.161 $\chi^2$/NDF: 5968.9/40




Right In: 3.479+/-0.254 $\chi^2$/NDF: 427.6/15

Left Out: 6.539+/-0.537 $\chi^2$/NDF:99.8/3

Right Out: 2.817+/-0.257 $\chi^2$/NDF: 345.3/17

Left In: 11.548+/-0.608 $\chi^2$/NDF:16.0/2

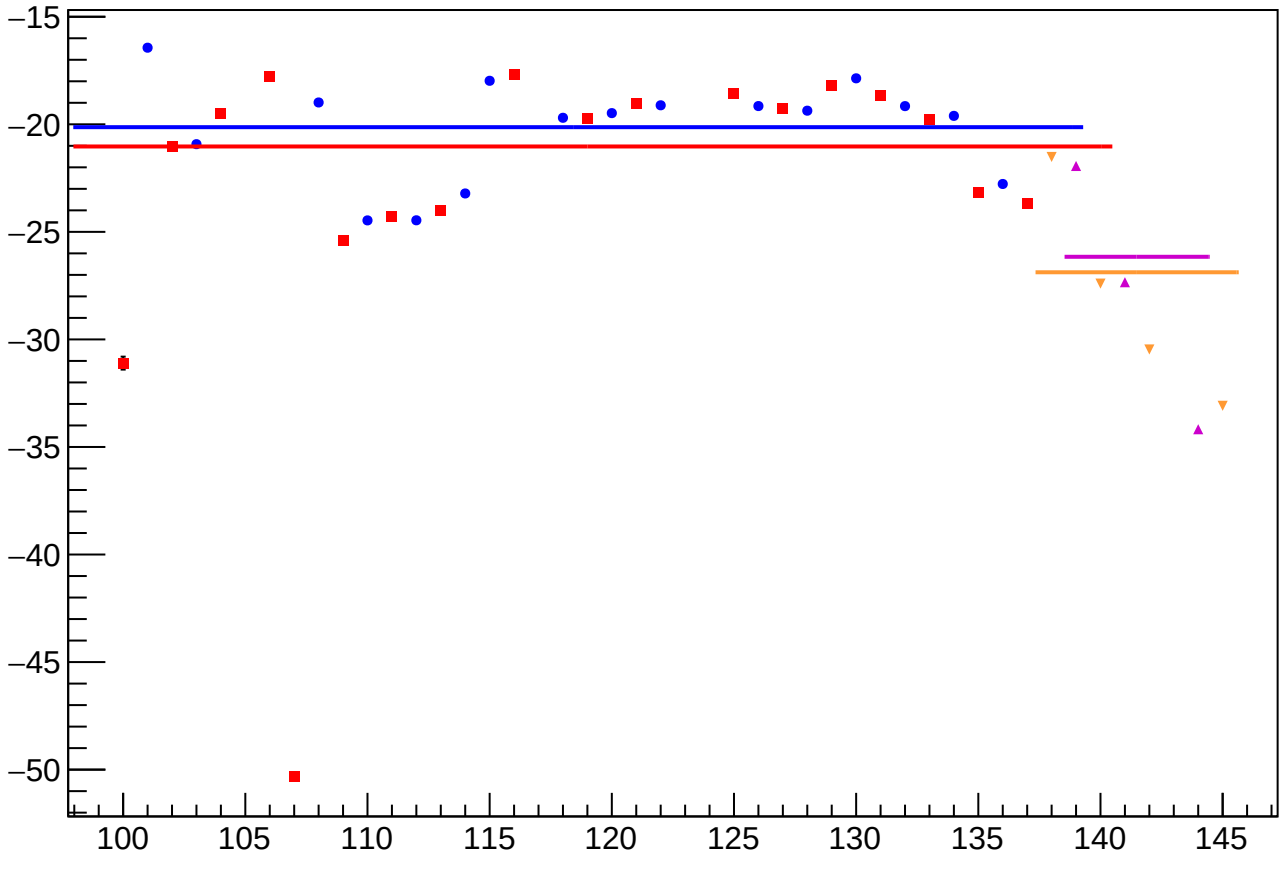
Left: 8.731+/-0.402 $\chi^2$/NDF: 154.0/6

Right: 3.153+/-0.181 $\chi^2$/NDF: 776.3/33

In: 4.674+/-0.234 $\chi^2$/NDF:593.5/18

Out: 3.512+/-0.232 $\chi^2$/NDF:484.2/21

All: 4.088+/-0.165 $\chi^2$/NDF: 1090.2/40




Right In: -20.133+/-0.016 $\chi^2$/NDF: 19831.2/15

Left Out: -26.879+/-0.023 $\chi^2$/NDF:39617.9/3

Right Out: -21.031+/-0.016 $\chi^2$/NDF: 57523.6/17

Left In: -26.159+/-0.024 $\chi^2$/NDF:39169.8/2

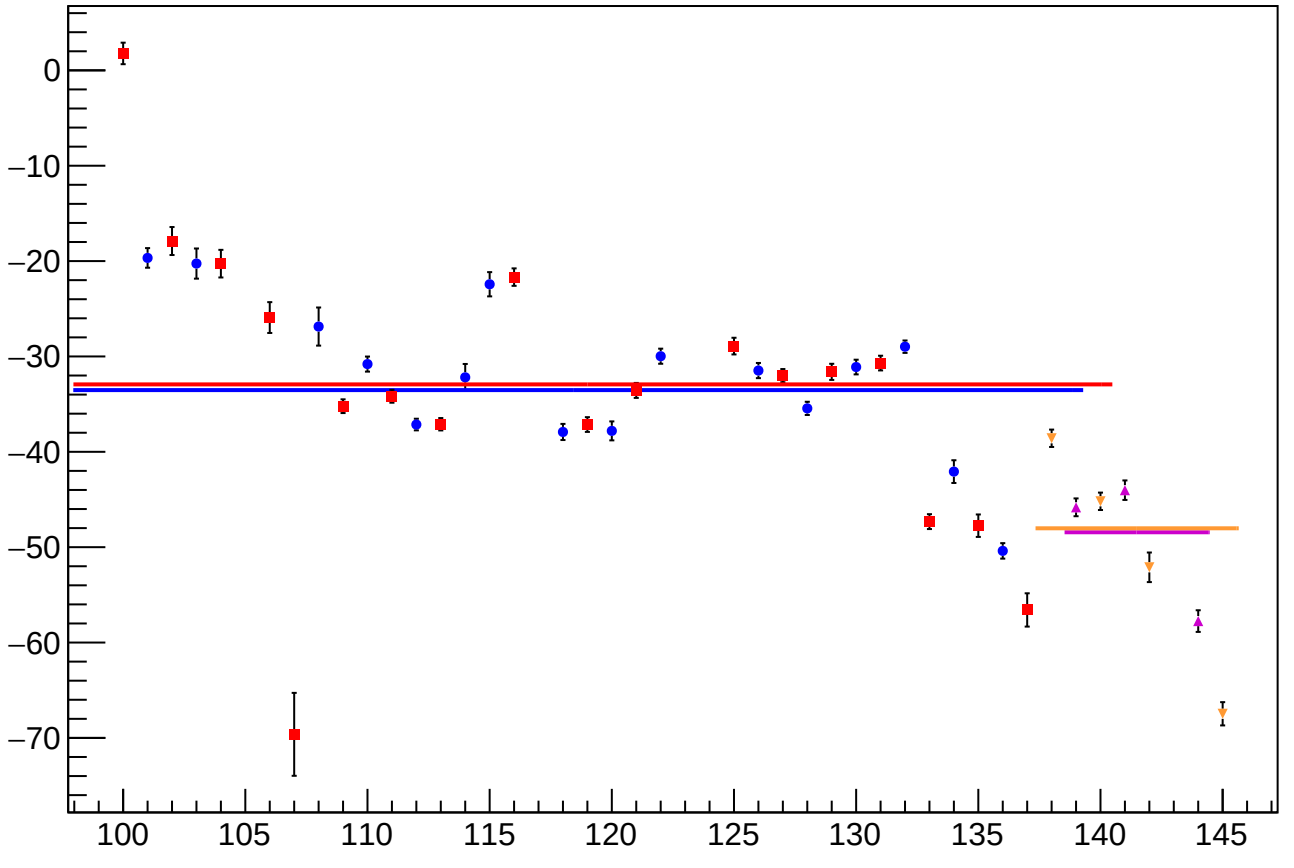
Left: -26.536+/-0.016 $\chi^2$/NDF: 79264.1/6

Right: -20.570+/-0.011 $\chi^2$/NDF: 78882.9/33

In: -22.001+/-0.013 $\chi^2$/NDF:102884.0/18

Out: -23.039+/-0.013 $\chi^2$/NDF:140526.2/21

All: -22.519+/-0.009 $\chi^2$/NDF: 246446.2/40




Right In: -33.528+/-0.218 $\chi^2$/NDF: 1008.7/15

Left Out: -48.020+/-0.535 $\chi^2$/NDF:378.0/3

Right Out: -32.931+/-0.212 $\chi^2$/NDF: 2170.0/17

Left In: -48.436+/-0.589 $\chi^2$/NDF:93.7/2

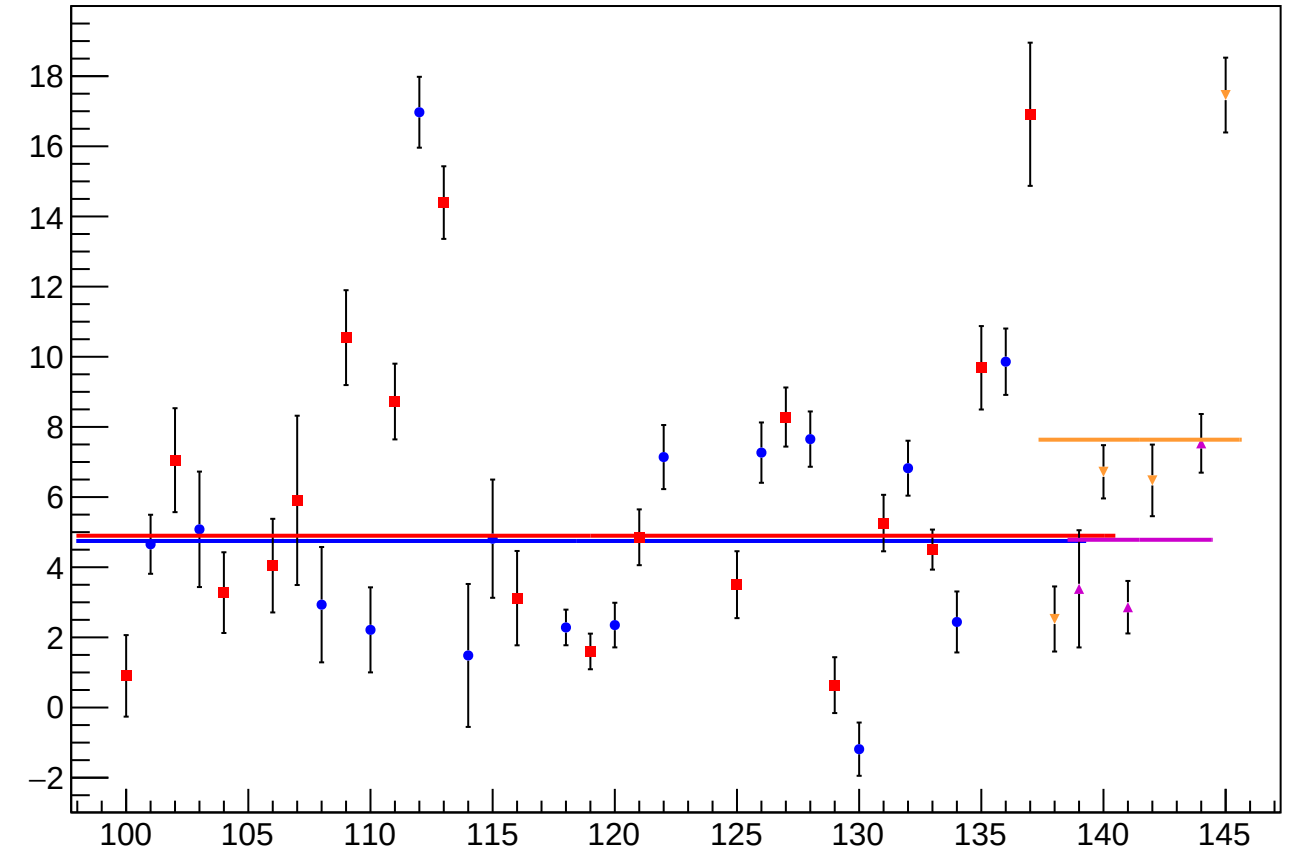
Left: -48.208+/-0.396 $\chi^2$/NDF: 472.0/6

Right: -33.220+/-0.152 $\chi^2$/NDF: 3182.6/33

In: -35.329+/-0.205 $\chi^2$/NDF:1665.1/18

Out: -34.971+/-0.197 $\chi^2$/NDF:3235.7/21

All: -35.143+/-0.142 $\chi^2$/NDF: 4902.3/40




Right In: 4.748+/-0.220 $\chi^2$/NDF: 325.7/15

Left Out: 7.636+/-0.460 $\chi^2$/NDF:117.9/3

Right Out: 4.898+/-0.220 $\chi^2$/NDF: 273.1/17

Left In: 4.783+/-0.529 $\chi^2$/NDF:18.1/2

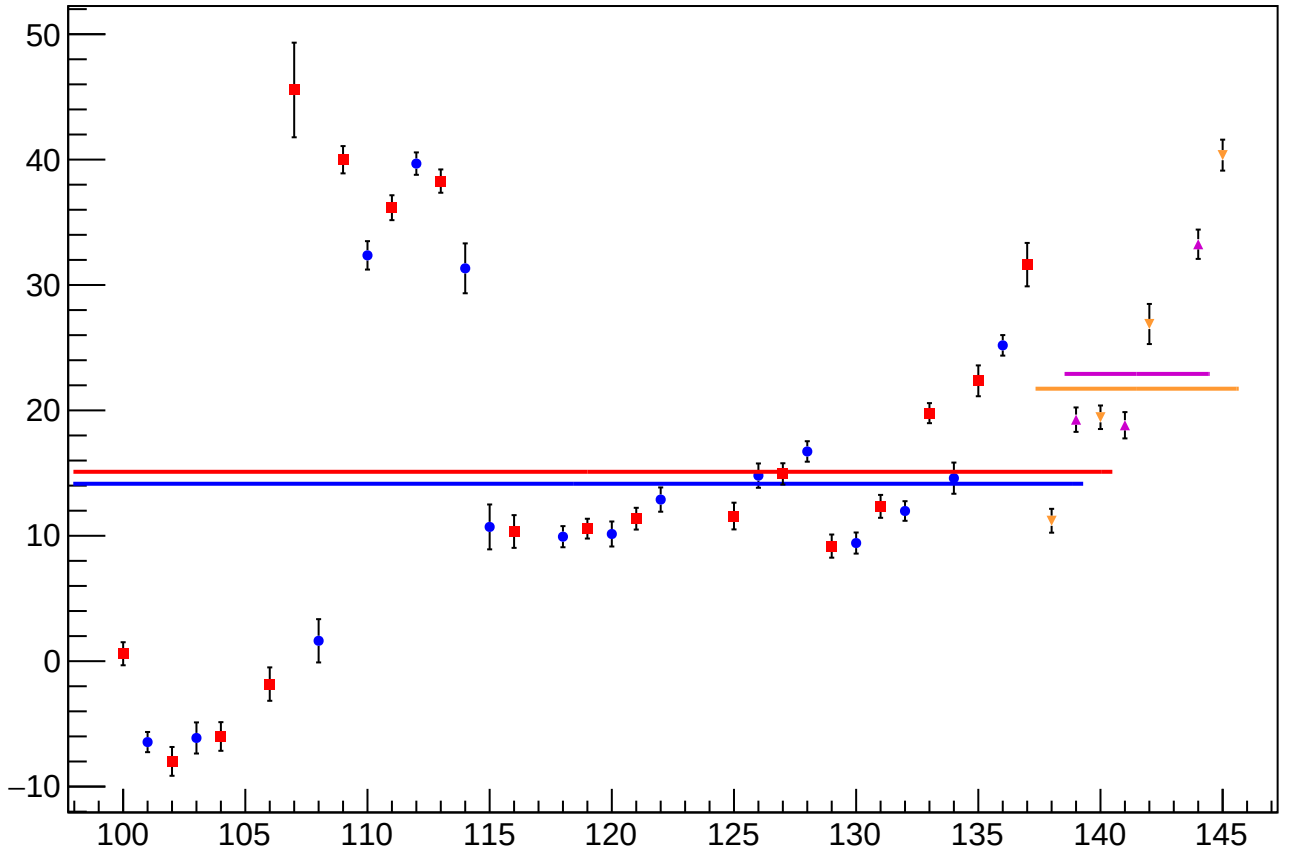
Left: 6.409+/-0.347 $\chi^2$/NDF: 152.6/6

Right: 4.823+/-0.155 $\chi^2$/NDF: 599.0/33

In: 4.753+/-0.203 $\chi^2$/NDF:343.8/18

Out: 5.408+/-0.198 $\chi^2$/NDF:419.9/21

All: 5.088+/-0.142 $\chi^2$/NDF: 769.0/40




Right In: 14.149+/-0.247 $\chi^2$/NDF: 2402.4/15

Left Out: 21.730+/-0.552 $\chi^2$/NDF:366.4/3

Right Out: 15.103+/-0.242 $\chi^2$/NDF: 3102.3/17

Left In: 22.910+/-0.609 $\chi^2$/NDF:107.5/2

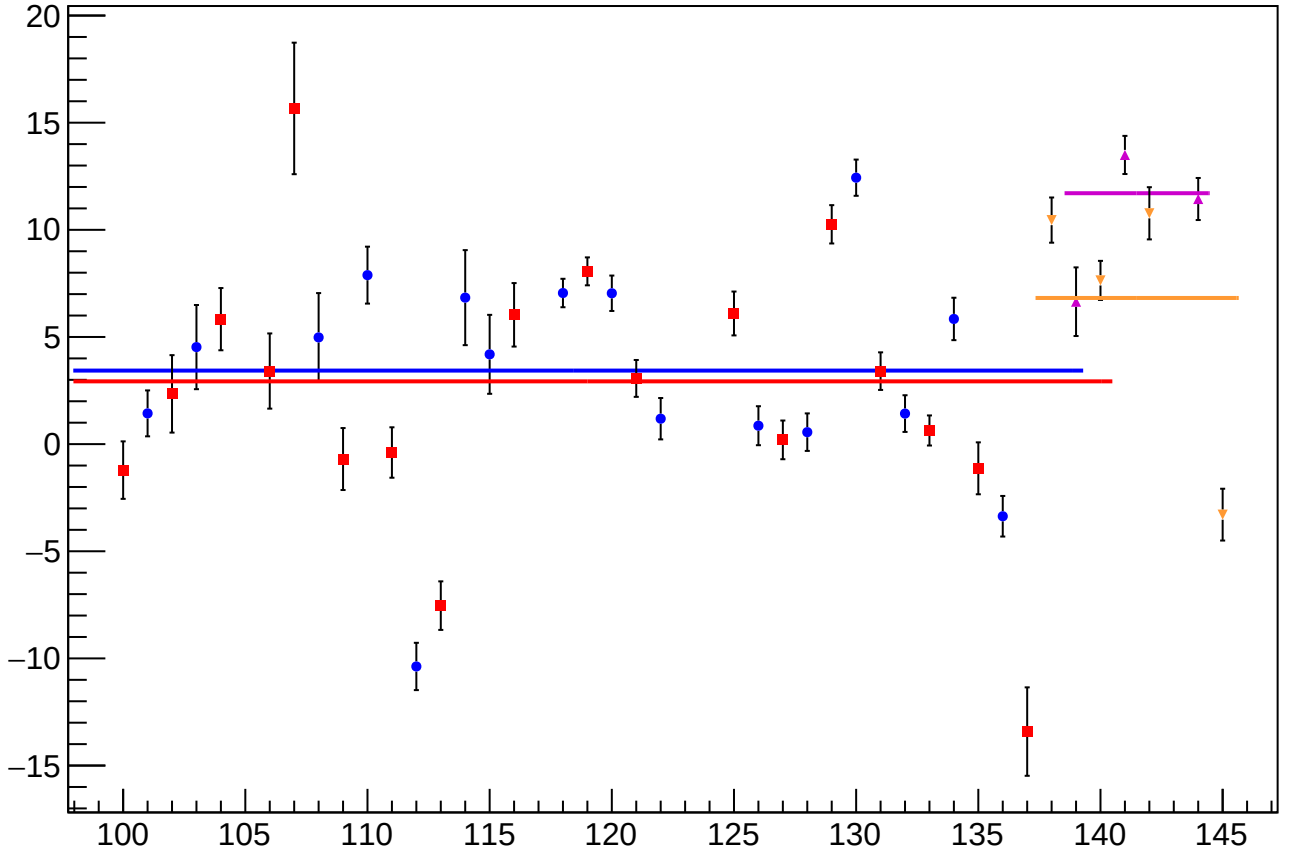
Left: 22.261+/-0.409 $\chi^2$/NDF: 476.0/6

Right: 14.636+/-0.173 $\chi^2$/NDF: 5512.3/33

In: 15.388+/-0.229 $\chi^2$/NDF:2687.5/18

Out: 16.173+/-0.222 $\chi^2$/NDF:3589.7/21

All: 15.794+/-0.159 $\chi^2$/NDF: 6283.3/40




Right In: 3.432+/-0.254 $\chi^2$/NDF: 424.0/15

Left Out: 6.820+/-0.538 $\chi^2$/NDF:93.1/3

Right Out: 2.929+/-0.253 $\chi^2$/NDF: 367.7/17

Left In: 11.709+/-0.610 $\chi^2$/NDF:14.1/2

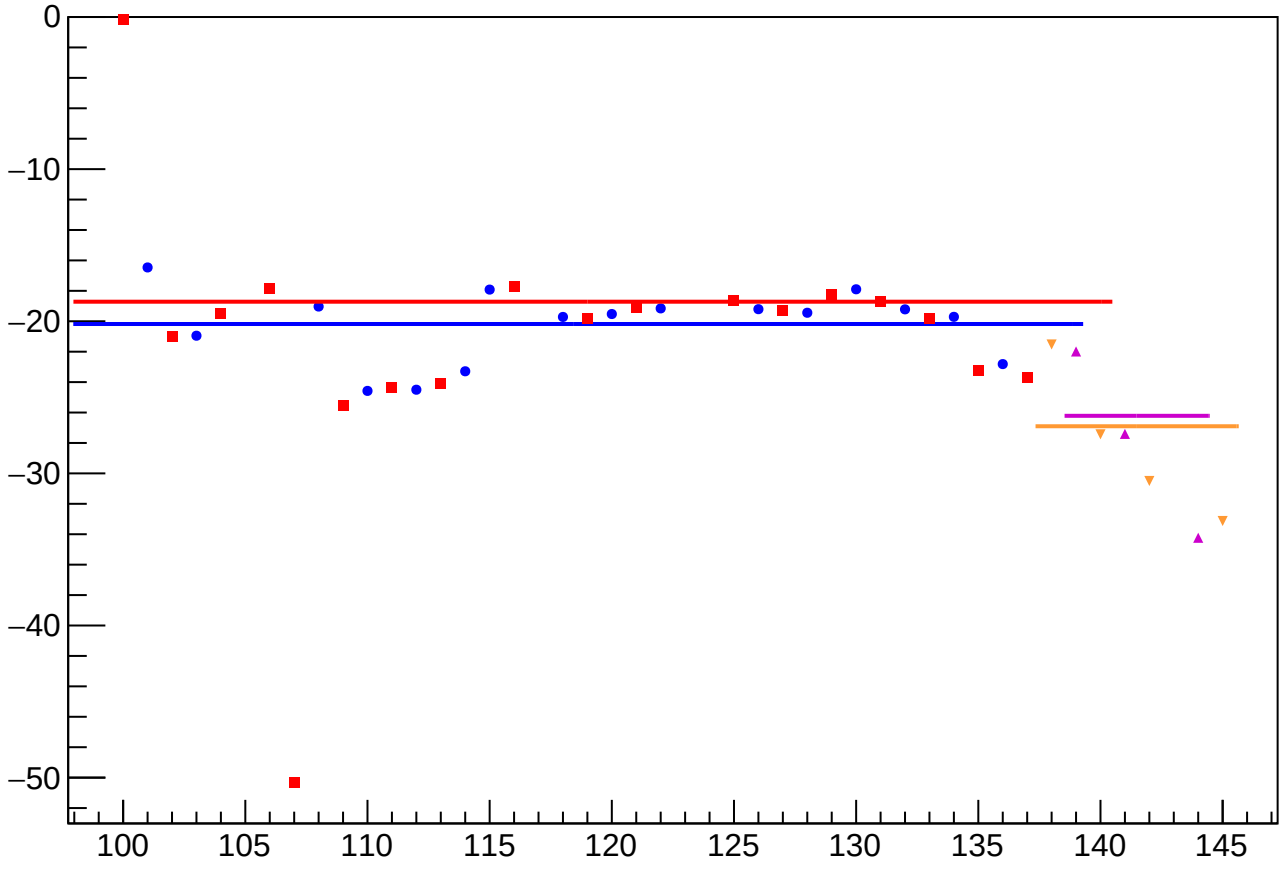
Left: 8.959+/-0.403 $\chi^2$/NDF: 143.4/6

Right: 3.179+/-0.179 $\chi^2$/NDF: 793.7/33

In: 4.658+/-0.235 $\chi^2$/NDF:595.1/18

Out: 3.636+/-0.229 $\chi^2$/NDF:503.7/21

All: 4.135+/-0.164 $\chi^2$/NDF: 1108.6/40




Right In: -20.180+/-0.016 $\chi^2$/NDF: 19856.9/15

Left Out: -26.902+/-0.023 $\chi^2$/NDF:39710.3/3

Right Out: -18.714+/-0.016 $\chi^2$/NDF: 234667.0/17

Left In: -26.215+/-0.024 $\chi^2$/NDF:39094.3/2

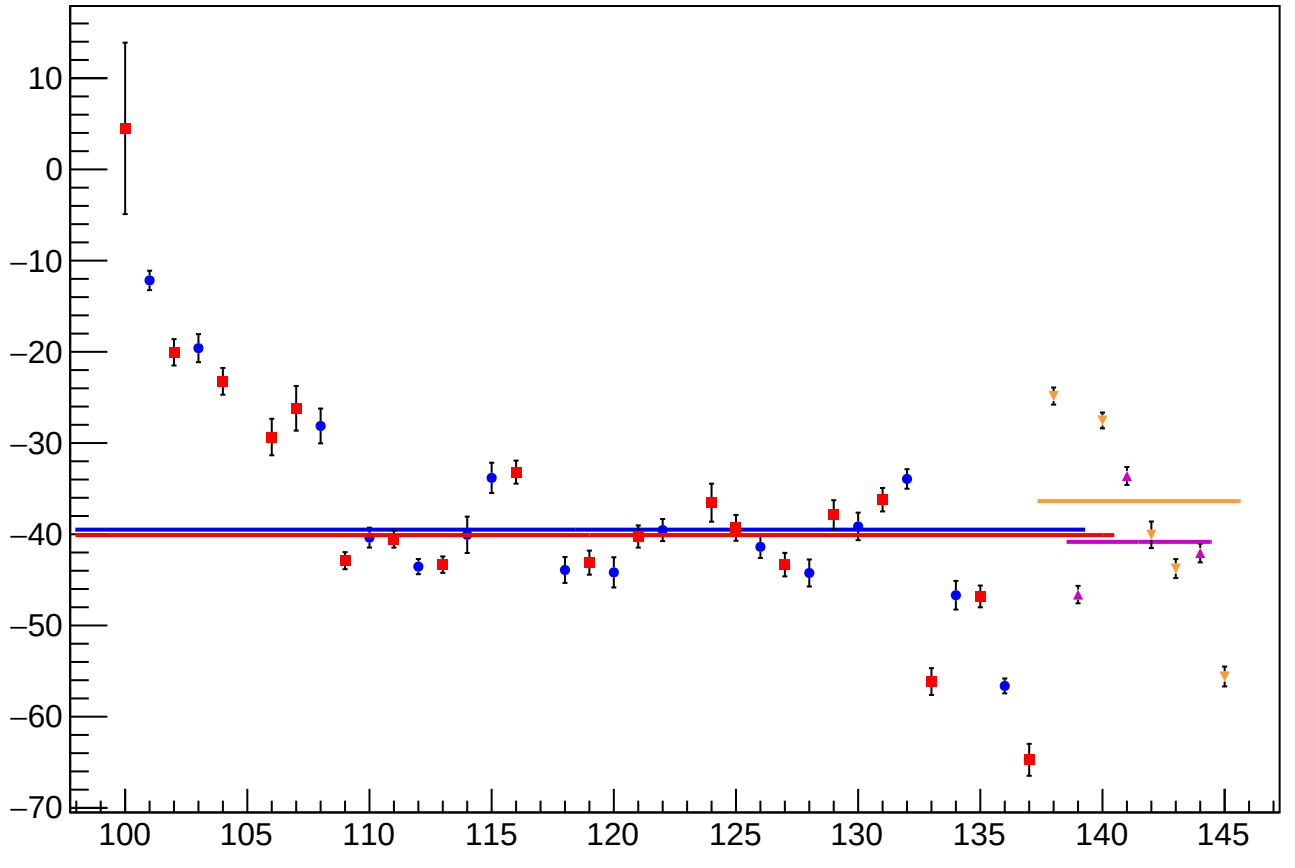
Left: -26.576+/-0.017 $\chi^2$/NDF: 79235.9/6

Right: -19.425+/-0.011 $\chi^2$/NDF: 258824.1/33

In: -22.051+/-0.013 $\chi^2$/NDF:102781.7/18

Out: -21.318+/-0.013 $\chi^2$/NDF:362390.8/21

All: -21.671+/-0.009 $\chi^2$/NDF: 466739.6/40




Right In: -39.493+/-0.311 $\chi^2$/NDF: 1417.1/15

Left Out: -36.363+/-0.461 $\chi^2$/NDF:623.8/4

Right Out: -40.090+/-0.307 $\chi^2$/NDF: 834.9/18

Left In: -40.835+/-0.570 $\chi^2$/NDF:92.1/2

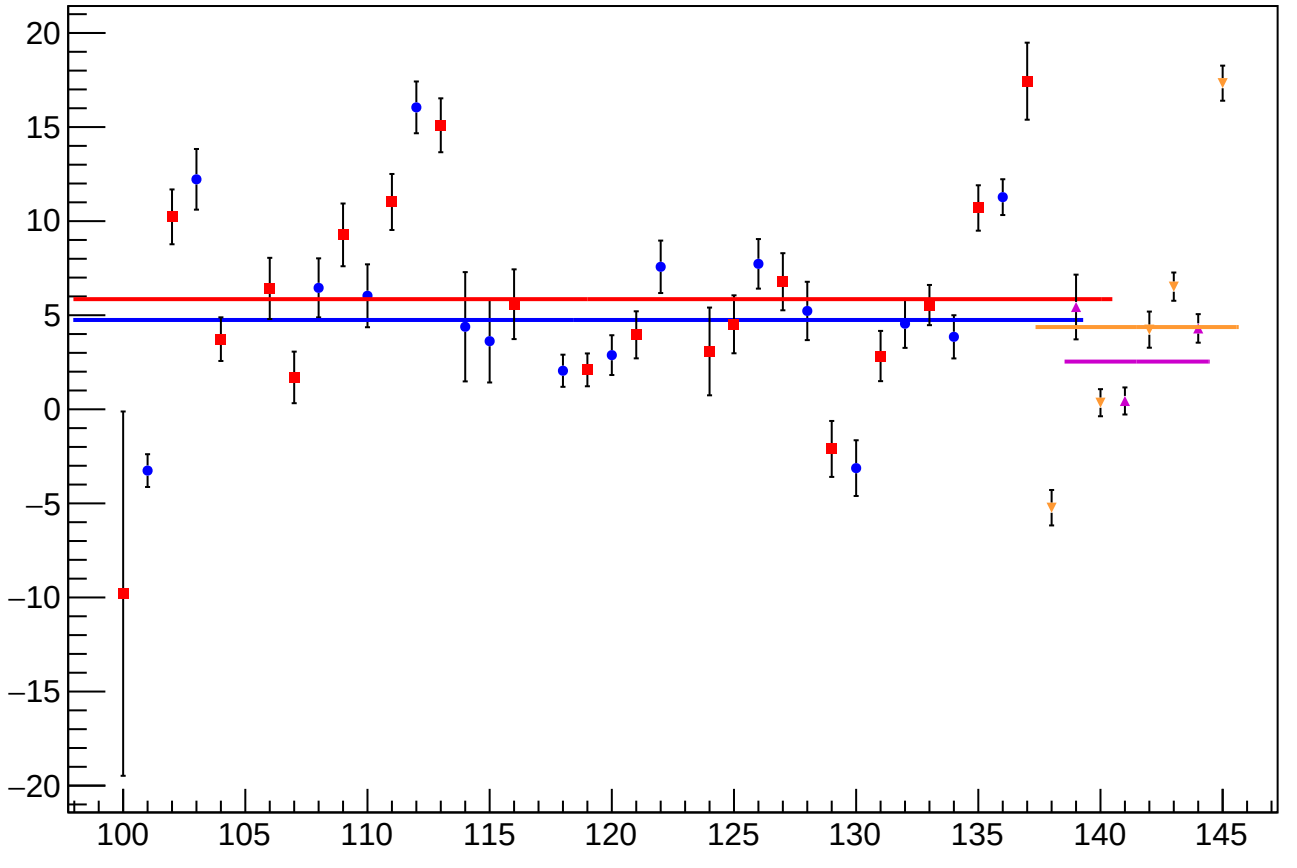
Left: -38.130+/-0.358 $\chi^2$/NDF: 753.1/7

Right: -39.795+/-0.218 $\chi^2$/NDF: 2253.9/34

In: -39.800+/-0.273 $\chi^2$/NDF:1513.4/18

Out: -38.943+/-0.256 $\chi^2$/NDF:1504.0/23

All: -39.344+/-0.186 $\chi^2$/NDF: 3022.7/42




Right In: 4.747+/-0.316 $\chi^2$/NDF: 273.8/15

Left Out: 4.371+/-0.376 $\chi^2$/NDF:336.5/4

Right Out: 5.854+/-0.324 $\chi^2$/NDF: 187.6/18

Left In: 2.536+/-0.499 $\chi^2$/NDF:16.7/2

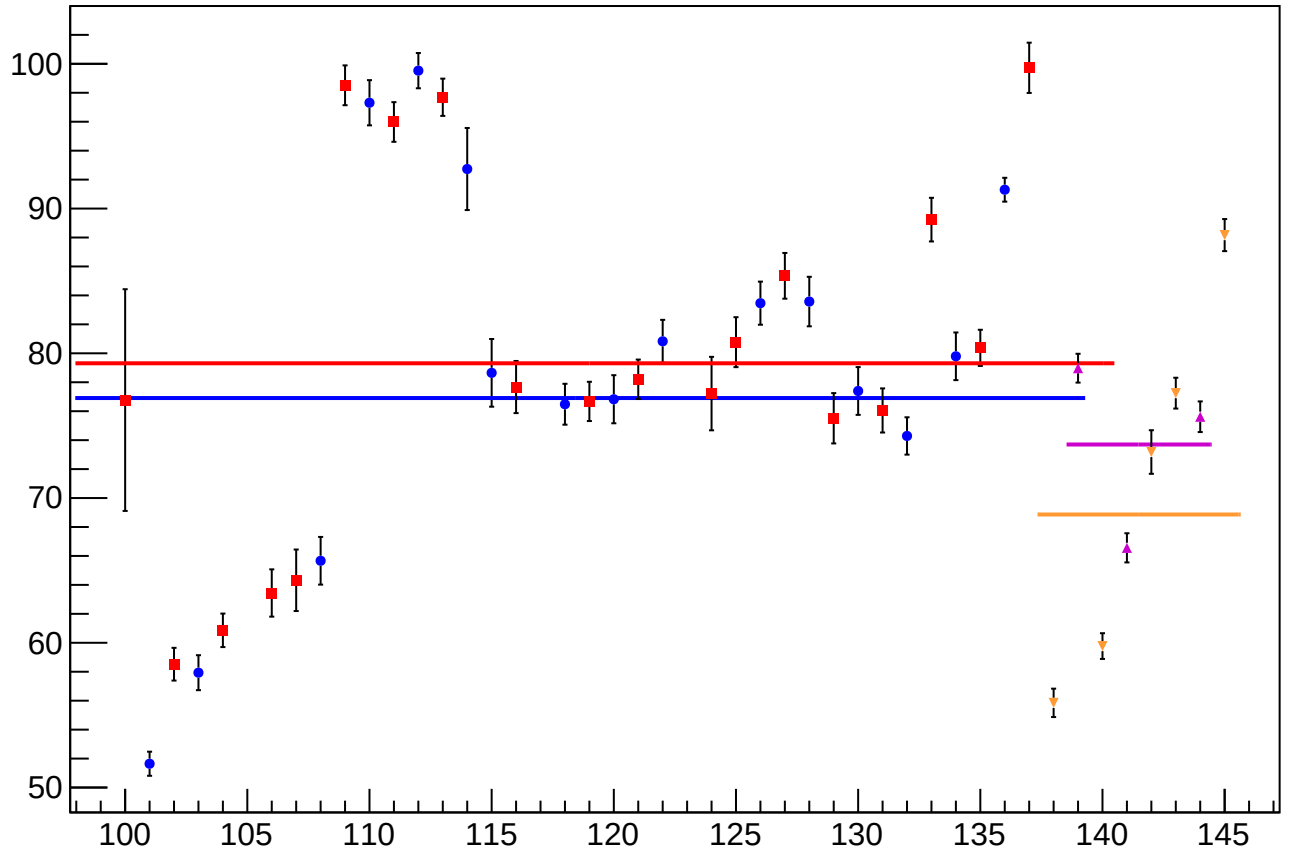
Left: 3.707+/-0.301 $\chi^2$/NDF: 361.8/7

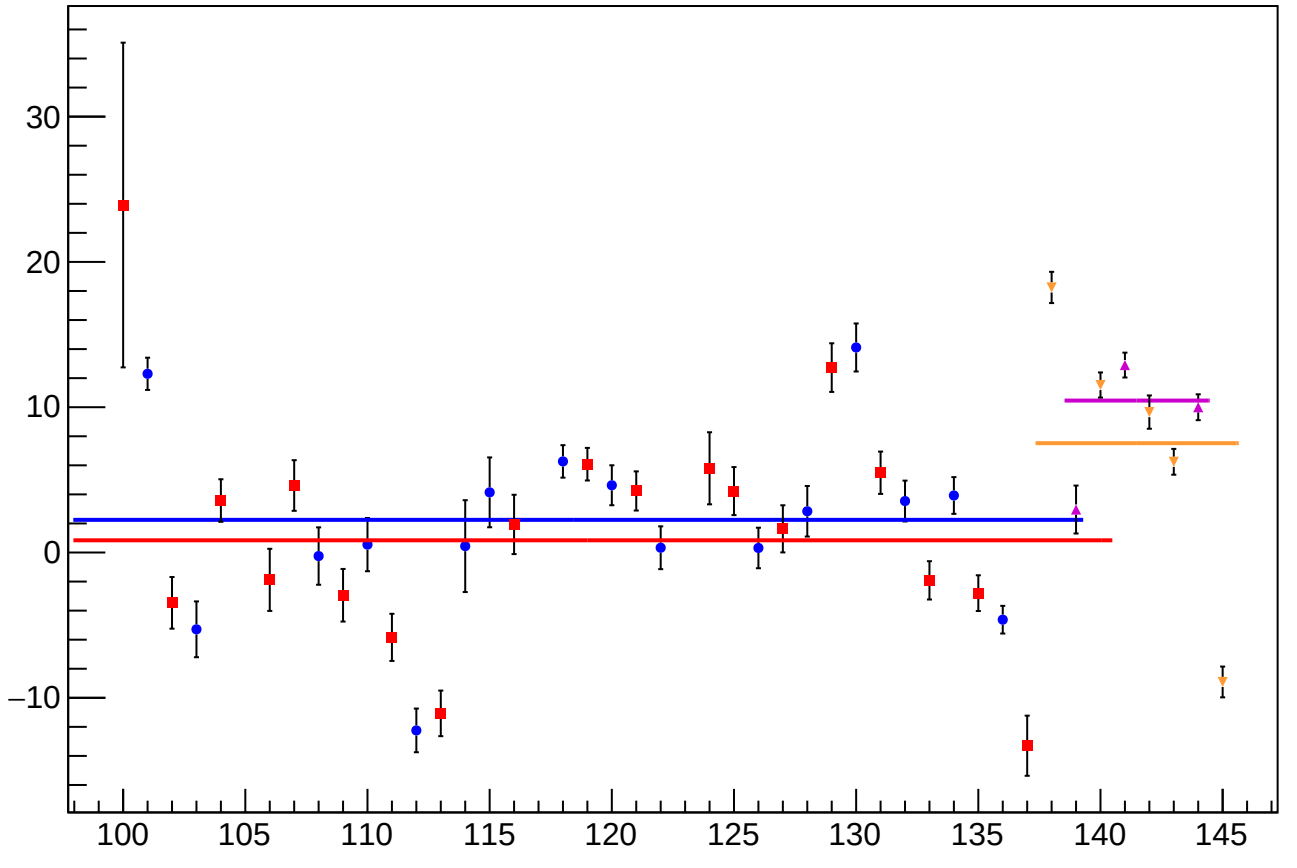
Right: 5.287+/-0.226 $\chi^2$/NDF: 467.4/34

In: 4.115+/-0.267 $\chi^2$/NDF:304.5/18

Out: 5.223+/-0.245 $\chi^2$/NDF:533.0/23

All: 4.716+/-0.181 $\chi^2$/NDF: 846.9/42


reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected
100
90
80
70
60
50
100
105
110
115
120
125
130
135
140
145
Right In: 76.909+/-0.337 χ²/NDF: 2116.0/15
Left Out: 68.863+/-0.475 χ²/NDF:653.9/4
Right Out: 79.311+/-0.348 χ²/NDF: 1496.4/18
Left In: 73.699+/-0.589 χ²/NDF:81.5/2
Left: 70.768+/-0.369 χ²/NDF: 776.4/7
Right: 78.071+/-0.242 χ²/NDF: 3636.9/34
In: 76.117+/-0.292 χ²/NDF:2219.9/18
Out: 75.660+/-0.281 χ²/NDF:2465.5/23
All: 75.879+/-0.202 χ²/NDF: 4686.7/42




Right In: 2.248+/-0.363 $\chi^2$/NDF: 319.6/15

Left Out: 7.525+/-0.442 $\chi^2$/NDF:367.0/4

Right Out: 0.840+/-0.372 $\chi^2$/NDF: 256.2/18

Left In: 10.458+/-0.577 $\chi^2$/NDF:29.1/2

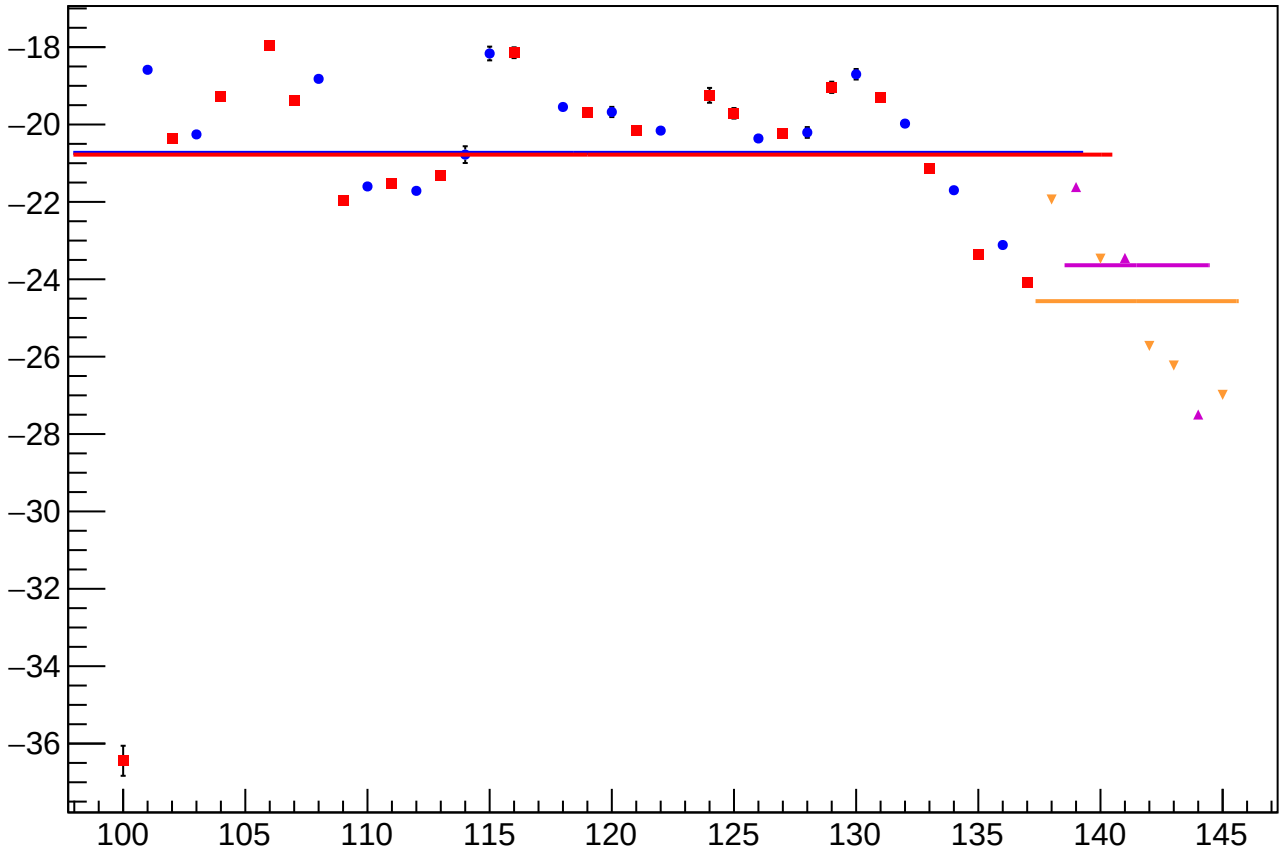
Left: 8.608+/-0.351 $\chi^2$/NDF: 412.4/7

Right: 1.561+/-0.260 $\chi^2$/NDF: 583.2/34

In: 4.574+/-0.307 $\chi^2$/NDF:493.6/18

Out: 3.614+/-0.285 $\chi^2$/NDF:757.1/23

All: 4.057+/-0.209 $\chi^2$/NDF: 1256.0/42




Right In: -20.732+/-0.019 $\chi^2$/NDF: 7634.1/15

Left Out: -24.565+/-0.020 $\chi^2$/NDF:10072.5/4

Right Out: -20.778+/-0.020 $\chi^2$/NDF: 9426.6/18

Left In: -23.637+/-0.023 $\chi^2$/NDF:9877.5/2

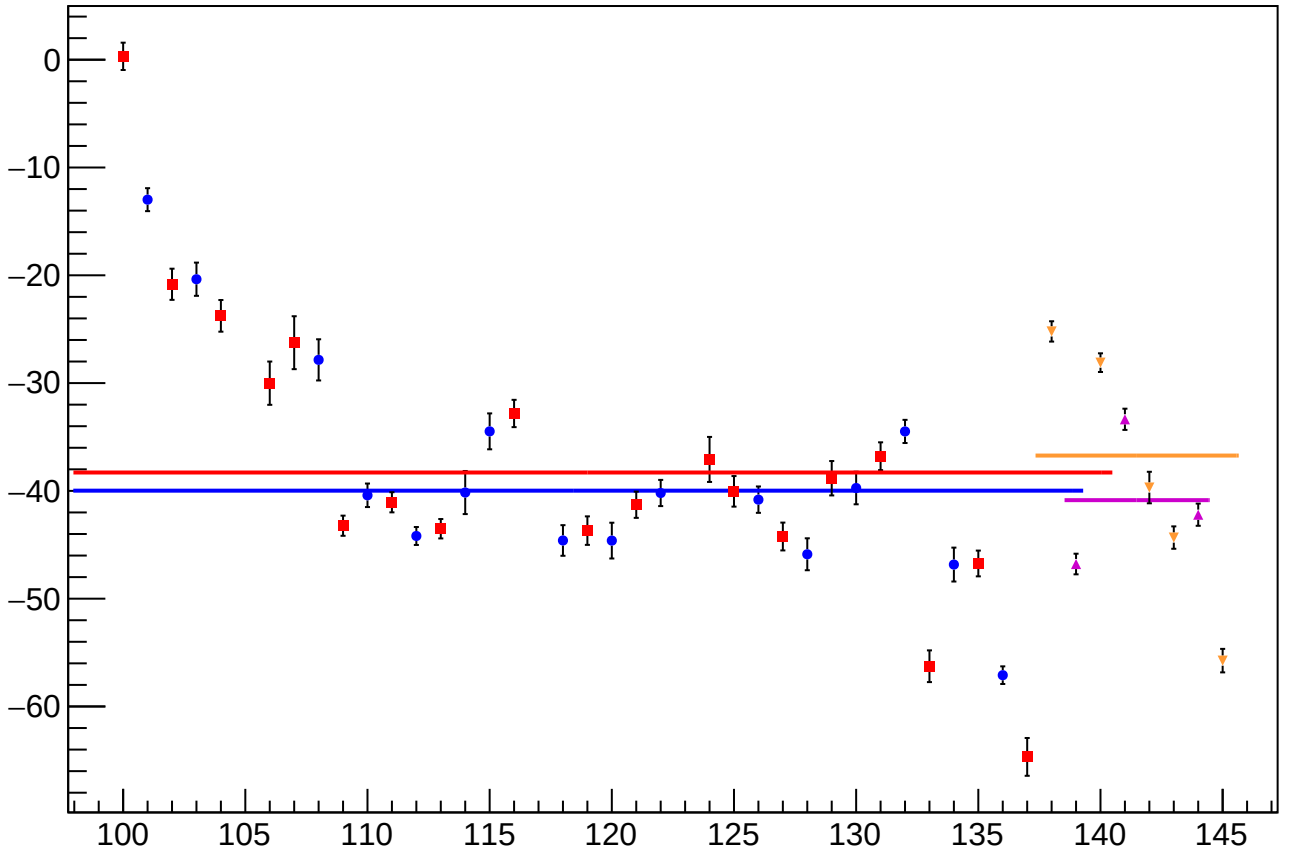
Left: -24.181+/-0.015 $\chi^2$/NDF: 20870.5/7

Right: -20.755+/-0.014 $\chi^2$/NDF: 17063.4/34

In: -21.917+/-0.015 $\chi^2$/NDF:26632.8/18

Out: -22.719+/-0.014 $\chi^2$/NDF:37534.2/23

All: -22.342+/-0.010 $\chi^2$/NDF: 65692.7/42




Right In: -39.979+/-0.311 $\chi^2$/NDF: 1398.4/15

Left Out: -36.723+/-0.462 $\chi^2$/NDF:610.6/4

Right Out: -38.295+/-0.299 $\chi^2$/NDF: 1773.8/18

Left In: -40.860+/-0.571 $\chi^2$/NDF:98.1/2

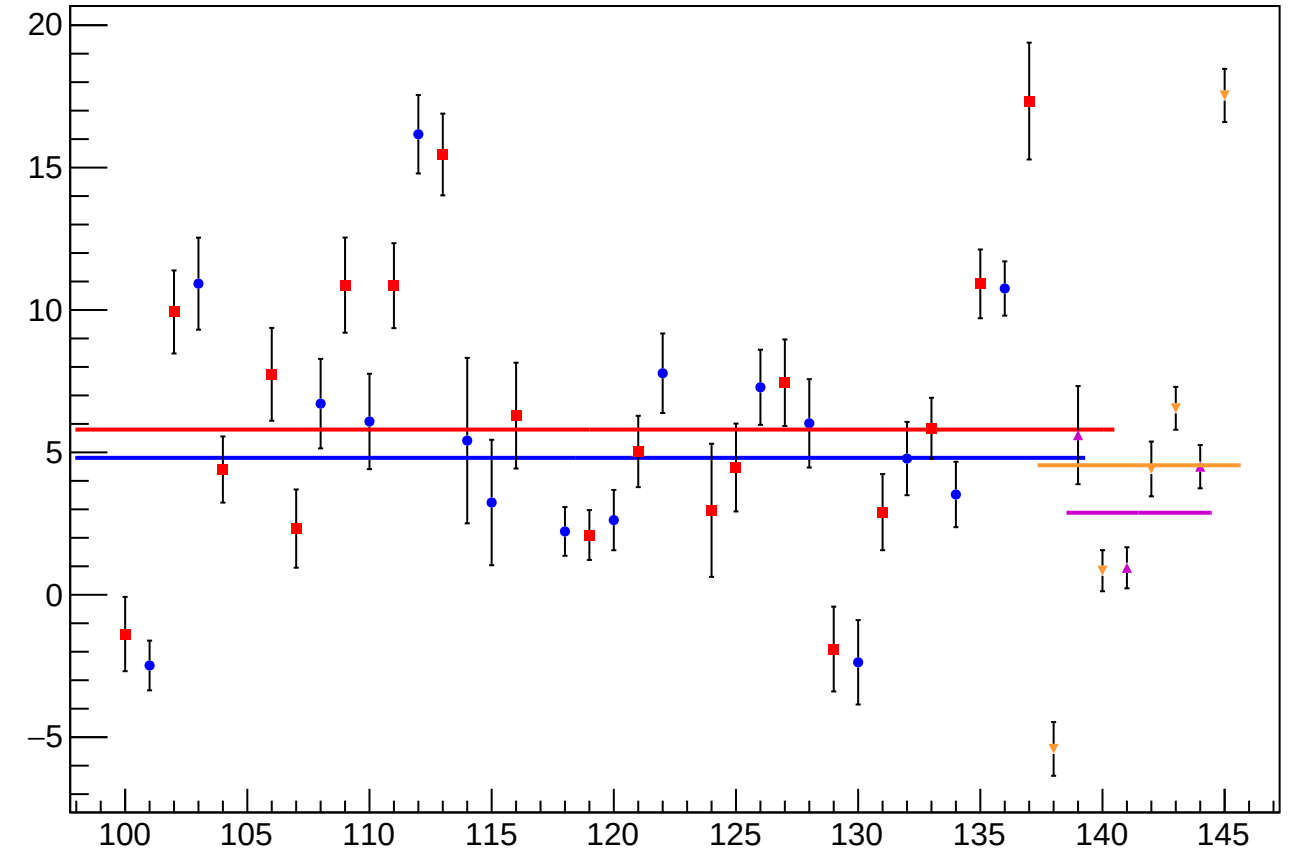
Left: -38.357+/-0.359 $\chi^2$/NDF: 740.5/7

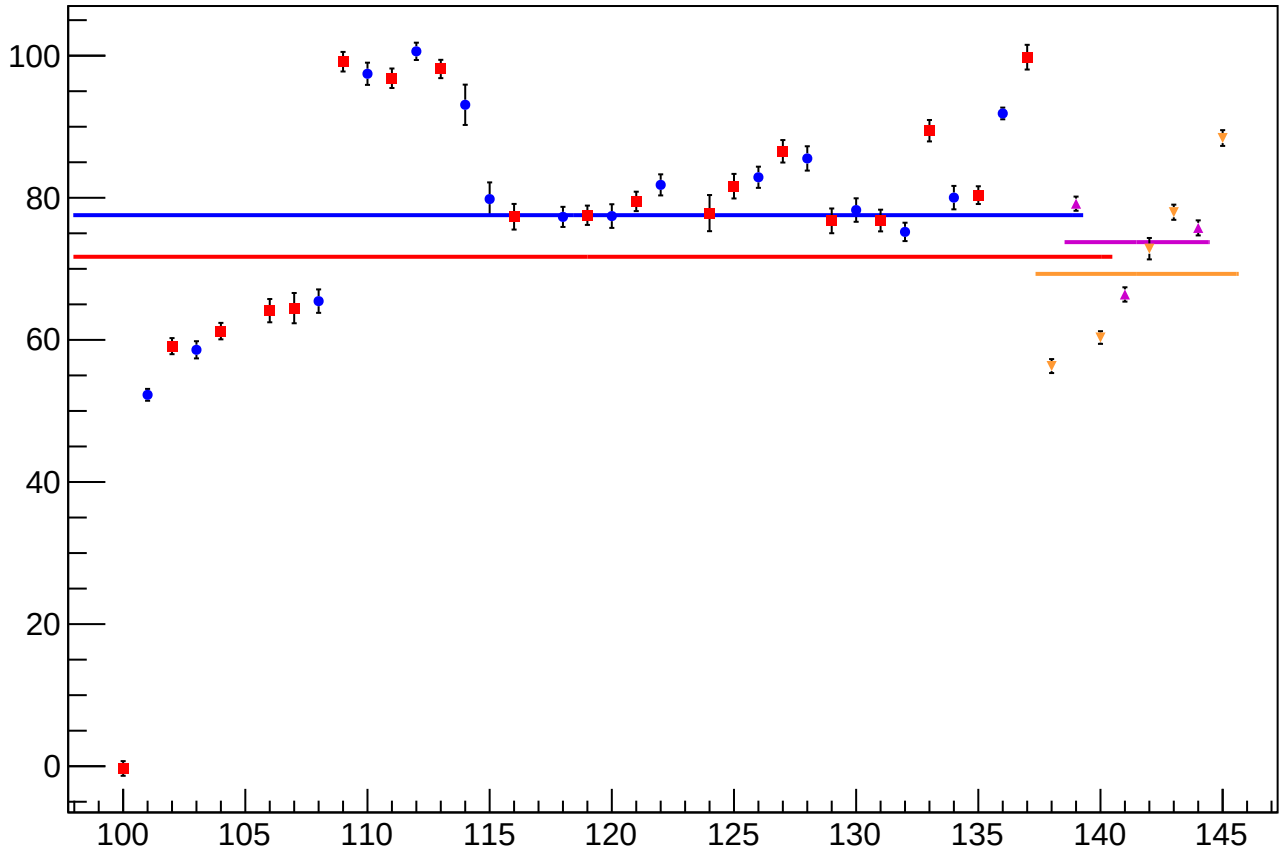
Right: -39.104+/-0.216 $\chi^2$/NDF: 3187.4/34

In: -40.181+/-0.273 $\chi^2$/NDF:1498.4/18

Out: -37.830+/-0.251 $\chi^2$/NDF:2392.6/23

All: -38.906+/-0.185 $\chi^2$/NDF: 3931.1/42


reg_asym_right_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
20
15
10
5
0
−5
100
105
110
115
120
125
130
135
140
145
Right In: 4.808+/-0.316 χ²/NDF: 240.5/15
Left Out: 4.548+/-0.377 χ²/NDF:338.3/4
Right Out: 5.801+/-0.315 χ²/NDF: 216.4/18
Left In: 2.881+/-0.500 χ²/NDF:14.2/2
Left: 3.944+/-0.301 χ²/NDF: 359.6/7
Right: 5.307+/-0.223 χ²/NDF: 461.9/34
In: 4.258+/-0.267 χ²/NDF:265.3/18
Out: 5.286+/-0.242 χ²/NDF:561.2/23
All: 4.824+/-0.179 χ²/NDF: 834.7/42




Right In: 77.554+/-0.337 $\chi^2$/NDF: 2118.3/15

Left Out: 69.291+/-0.475 $\chi^2$/NDF:643.7/4

Right Out: 71.699+/-0.330 $\chi^2$/NDF: 6903.5/18

Left In: 73.758+/-0.590 $\chi^2$/NDF:86.2/2

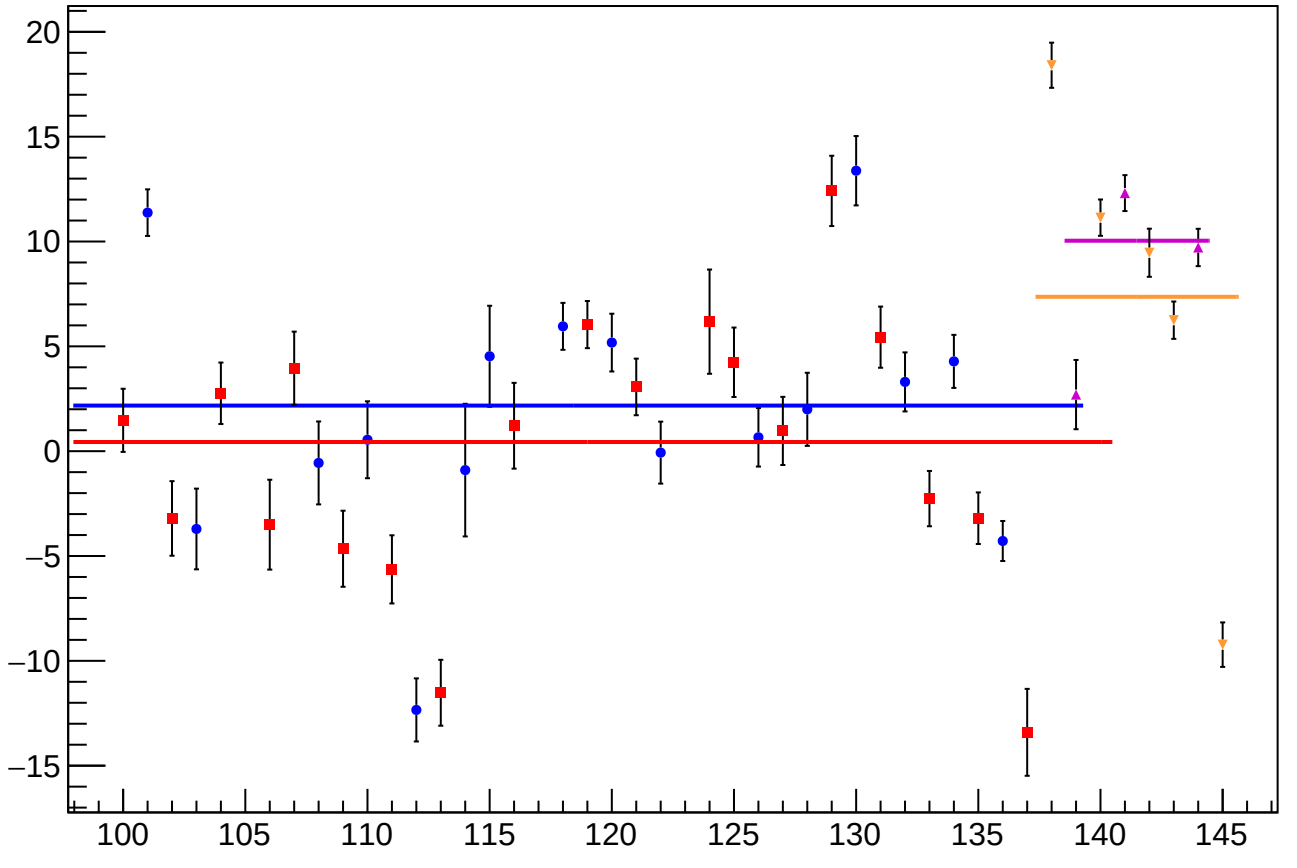
Left: 71.051+/-0.370 $\chi^2$/NDF: 764.7/7

Right: 74.565+/-0.236 $\chi^2$/NDF: 9175.5/34

In: 76.618+/-0.293 $\chi^2$/NDF:2235.7/18

Out: 70.914+/-0.271 $\chi^2$/NDF:7564.5/23

All: 73.549+/-0.199 $\chi^2$/NDF: 10004.3/42




Right In: 2.175+/-0.364 $\chi^2$/NDF: 290.3/15

Left Out: 7.363+/-0.443 $\chi^2$/NDF:373.7/4

Right Out: 0.438+/-0.362 $\chi^2$/NDF: 254.1/18

Left In: 10.038+/-0.578 $\chi^2$/NDF:26.9/2

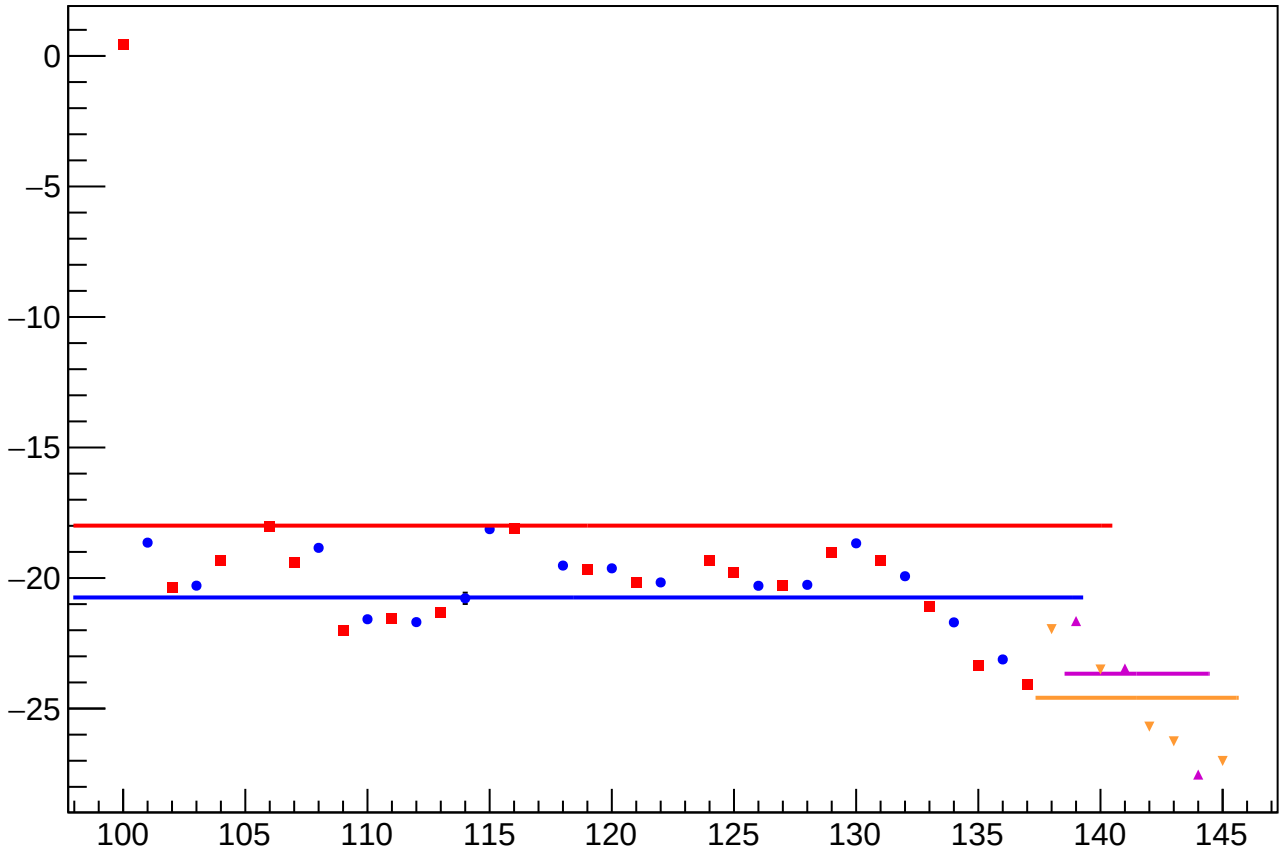
Left: 8.351+/-0.352 $\chi^2$/NDF: 414.0/7

Right: 1.302+/-0.257 $\chi^2$/NDF: 555.9/34

In: 4.402+/-0.308 $\chi^2$/NDF:449.6/18

Out: 3.213+/-0.280 $\chi^2$/NDF:774.5/23

All: 3.751+/-0.207 $\chi^2$/NDF: 1232.3/42




Right In: -20.745+/-0.019 $\chi^2$/NDF: 7513.6/15

Left Out: -24.587+/-0.020 $\chi^2$/NDF:10000.4/4

Right Out: -17.993+/-0.019 $\chi^2$/NDF: 150579.1/18

Left In: -23.666+/-0.023 $\chi^2$/NDF:9852.6/2

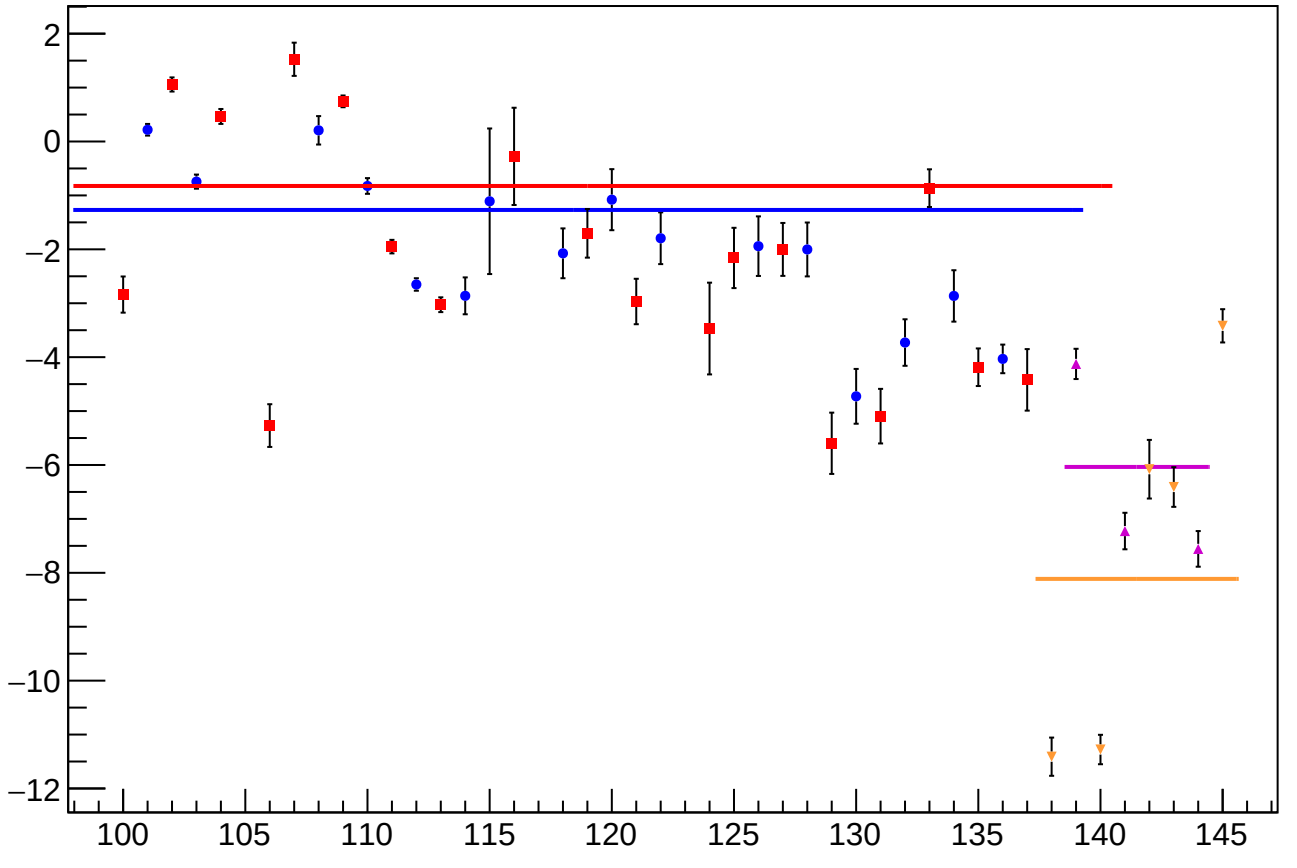
Left: -24.205+/-0.015 $\chi^2$/NDF: 20757.7/7

Right: -19.328+/-0.014 $\chi^2$/NDF: 168397.6/34

In: -21.935+/-0.015 $\chi^2$/NDF:26557.3/18

Out: -21.146+/-0.014 $\chi^2$/NDF:218917.8/23

All: -21.504+/-0.010 $\chi^2$/NDF: 246993.8/42




Right In: -1.270+/-0.055 $\chi^2$/NDF: 616.5/15

Left Out: -8.113+/-0.153 $\chi^2$/NDF:488.1/4

Right Out: -0.825+/-0.051 $\chi^2$/NDF: 1384.3/18

Left In: -6.036+/-0.181 $\chi^2$/NDF:79.9/2

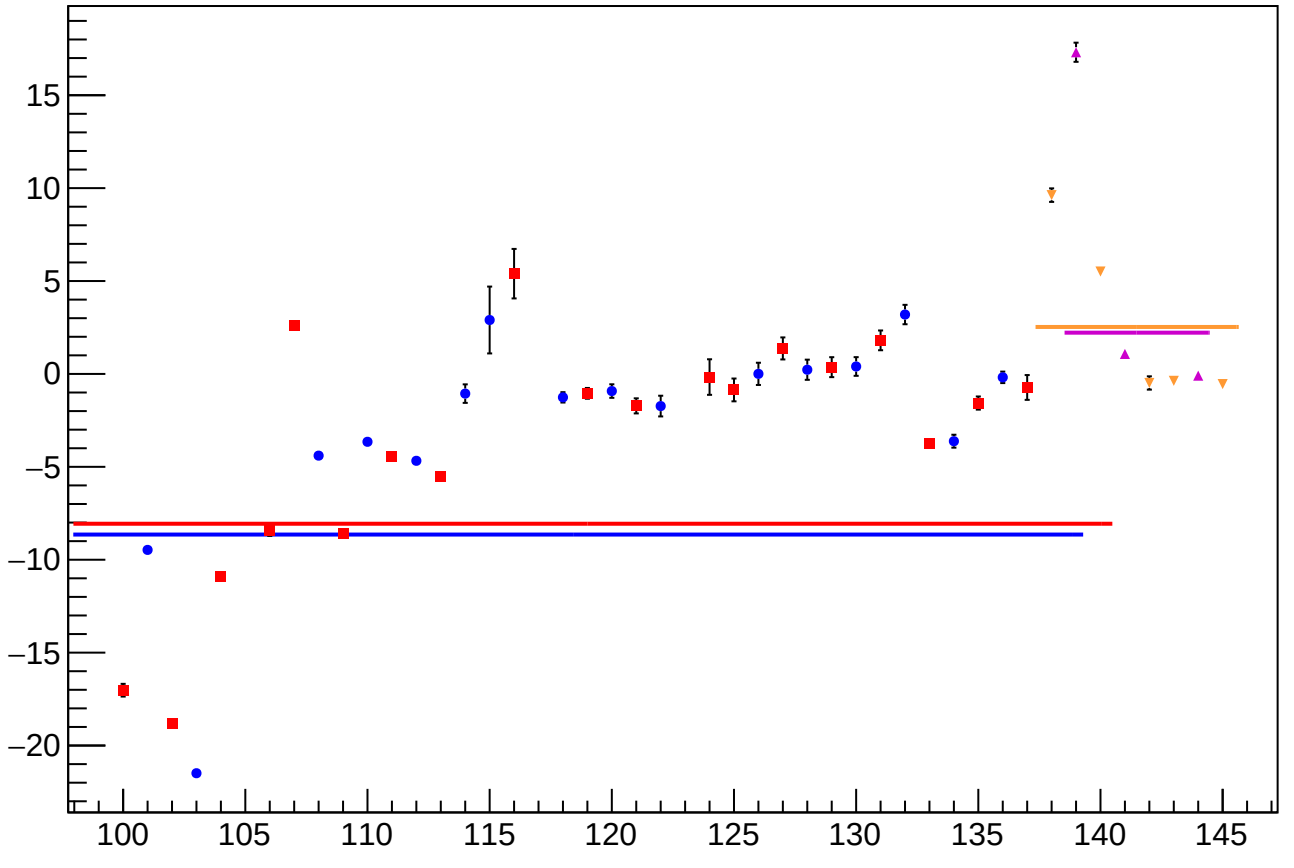
Left: -7.246+/-0.117 $\chi^2$/NDF: 644.8/7

Right: -1.033+/-0.037 $\chi^2$/NDF: 2036.2/34

In: -1.667+/-0.052 $\chi^2$/NDF:1333.1/18

Out: -1.554+/-0.048 $\chi^2$/NDF:3912.3/23

All: -1.606+/-0.035 $\chi^2$/NDF: 5247.9/42




Right In: -8.645+/-0.057 $\chi^2$/NDF: 13827.6/15

Left Out: 2.528+/-0.126 $\chi^2$/NDF:879.8/4

Right Out: -8.063+/-0.058 $\chi^2$/NDF: 14427.9/18

Left In: 2.221+/-0.165 $\chi^2$/NDF:968.0/2

Left: 2.415+/-0.100 $\chi^2$/NDF: 1849.9/7

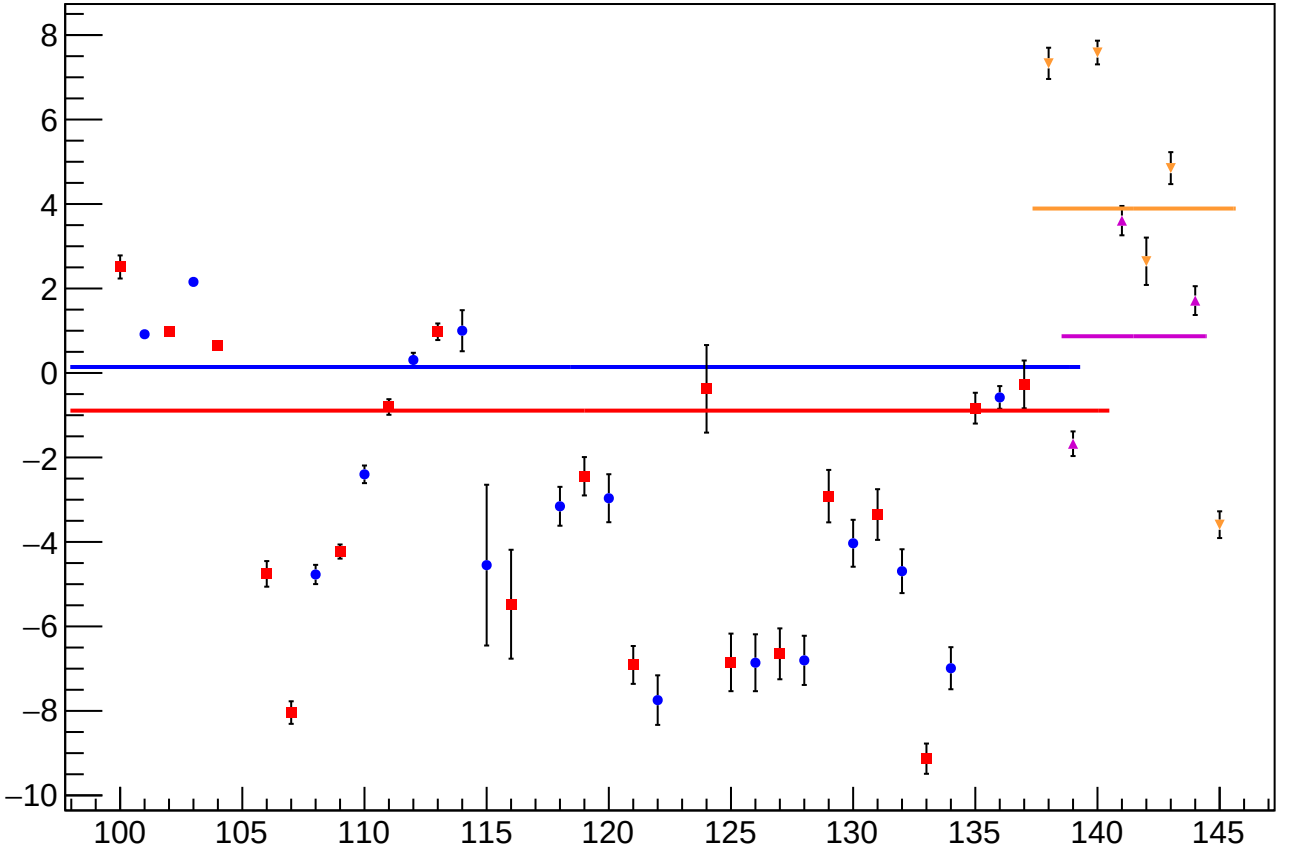
Right: -8.357+/-0.040 $\chi^2$/NDF: 28307.3/34

In: -7.494+/-0.054 $\chi^2$/NDF:18652.2/18

Out: -6.228+/-0.052 $\chi^2$/NDF:21184.7/23

All: -6.843+/-0.038 $\chi^2$/NDF: 40121.5/42

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 0.141+/-0.053 $\chi^2$/NDF: 1959.8/15

Left Out: 3.893+/-0.158 $\chi^2$/NDF:830.2/4

Right Out: -0.891+/-0.054 $\chi^2$/NDF: 2985.7/18

Left In: 0.870+/-0.187 $\chi^2$/NDF:144.4/2

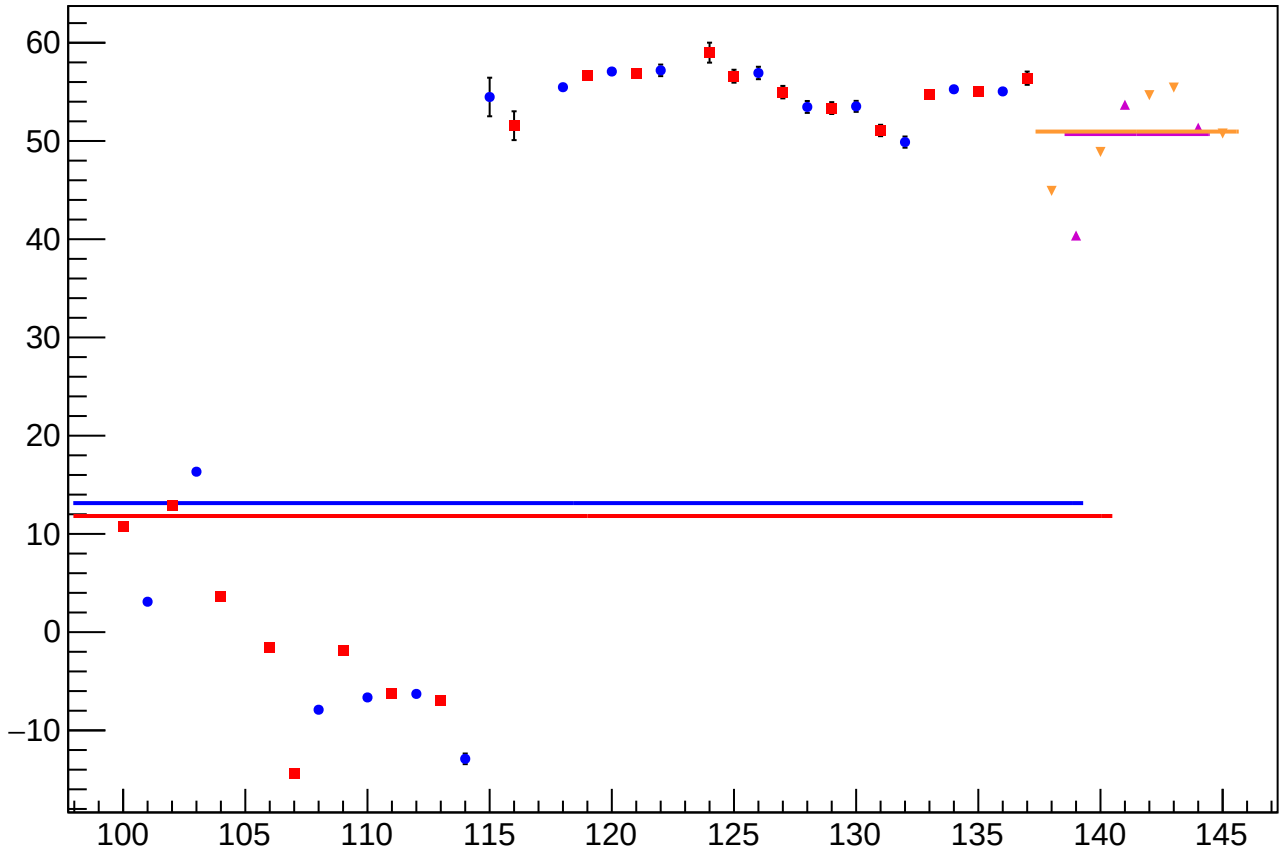
Left: 2.634+/-0.121 $\chi^2$/NDF: 1127.4/7

Right: -0.368+/-0.038 $\chi^2$/NDF: 5133.2/34

In: 0.196+/-0.051 $\chi^2$/NDF:2118.2/18

Out: -0.396+/-0.051 $\chi^2$/NDF:4639.7/23

All: -0.101+/-0.036 $\chi^2$/NDF: 6825.6/42




Right In: 13.136+/-0.068 $\chi^2$/NDF: 108574.4/15

Left Out: 50.958+/-0.147 $\chi^2$/NDF:549.2/4

Right Out: 11.822+/-0.068 $\chi^2$/NDF: 118168.5/18

Left In: 50.705+/-0.190 $\chi^2$/NDF:543.0/2

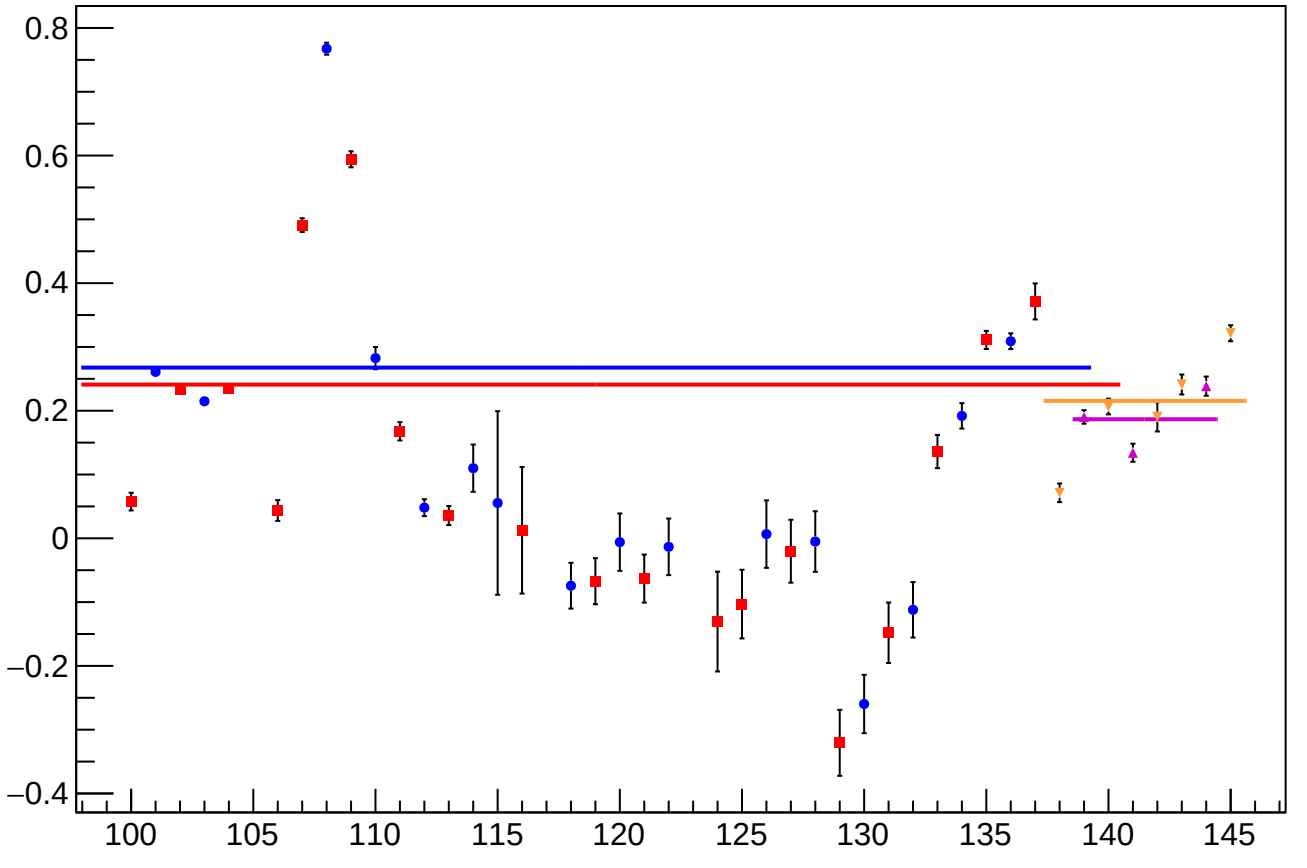
Left: 50.863+/-0.116 $\chi^2$/NDF: 1093.3/7

Right: 12.478+/-0.048 $\chi^2$/NDF: 226930.1/34

In: 17.398+/-0.064 $\chi^2$/NDF:143801.8/18

Out: 18.685+/-0.062 $\chi^2$/NDF:177058.4/23

All: 18.065+/-0.044 $\chi^2$/NDF: 321070.1/42




Right In: 0.268+/-0.003 $\chi^2$/NDF: 3720.4/15

Left Out: 0.215+/-0.007 $\chi^2$/NDF:173.9/4

Right Out: 0.241+/-0.003 $\chi^2$/NDF: 2339.2/18

Left In: 0.187+/-0.007 $\chi^2$/NDF:25.8/2

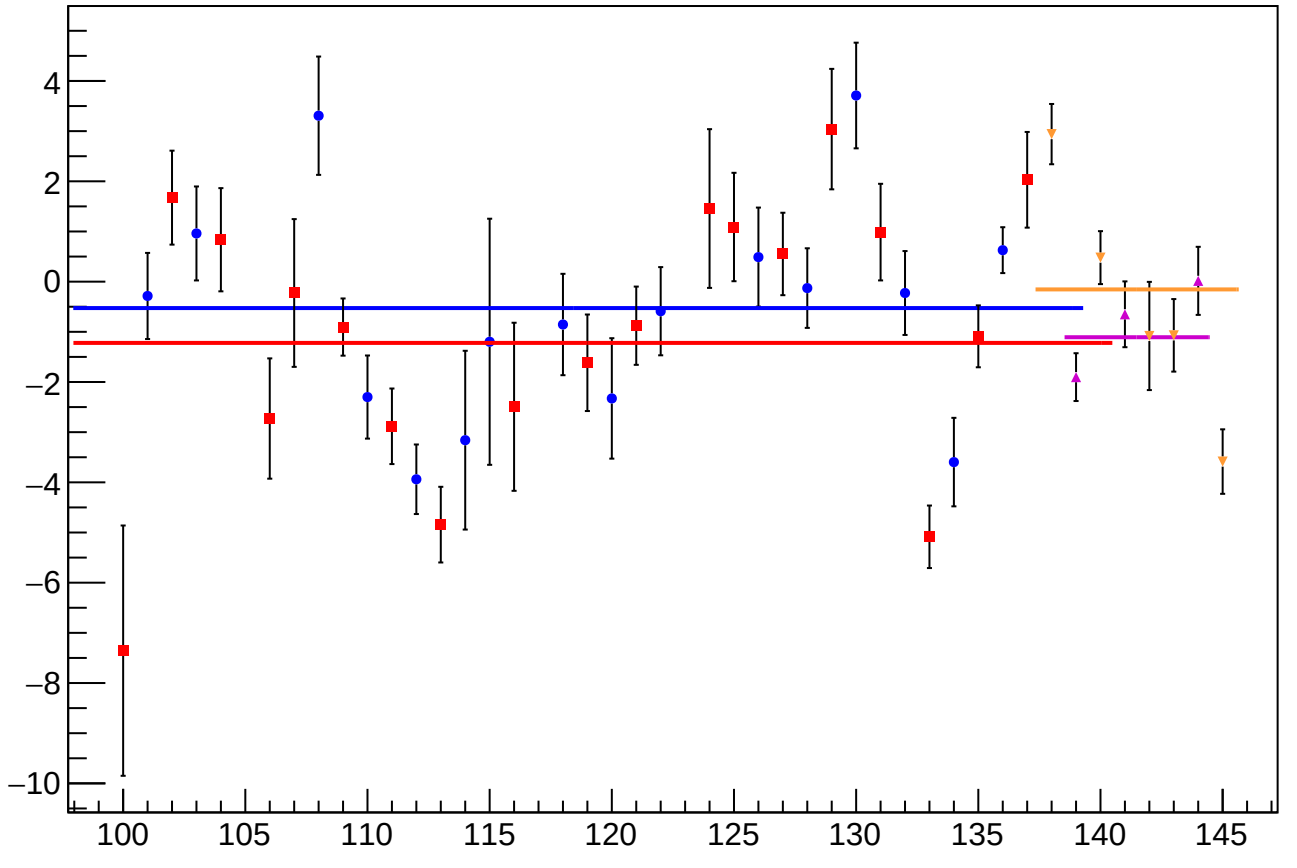
Left: 0.203+/-0.005 $\chi^2$/NDF: 208.2/7

Right: 0.254+/-0.002 $\chi^2$/NDF: 6105.9/34

In: 0.258+/-0.003 $\chi^2$/NDF:3851.3/18

Out: 0.237+/-0.003 $\chi^2$/NDF:2526.1/23

All: 0.247+/-0.002 $\chi^2$/NDF: 6408.9/42




Right In: -0.527+/-0.217 $\chi^2$/NDF: 82.7/15

Left Out: -0.155+/-0.294 $\chi^2$/NDF:58.8/4

Right Out: -1.221+/-0.205 $\chi^2$/NDF: 130.9/18

Left In: -1.108+/-0.335 $\chi^2$/NDF:6.0/2

Left: -0.570+/-0.221 $\chi^2$/NDF: 69.4/7

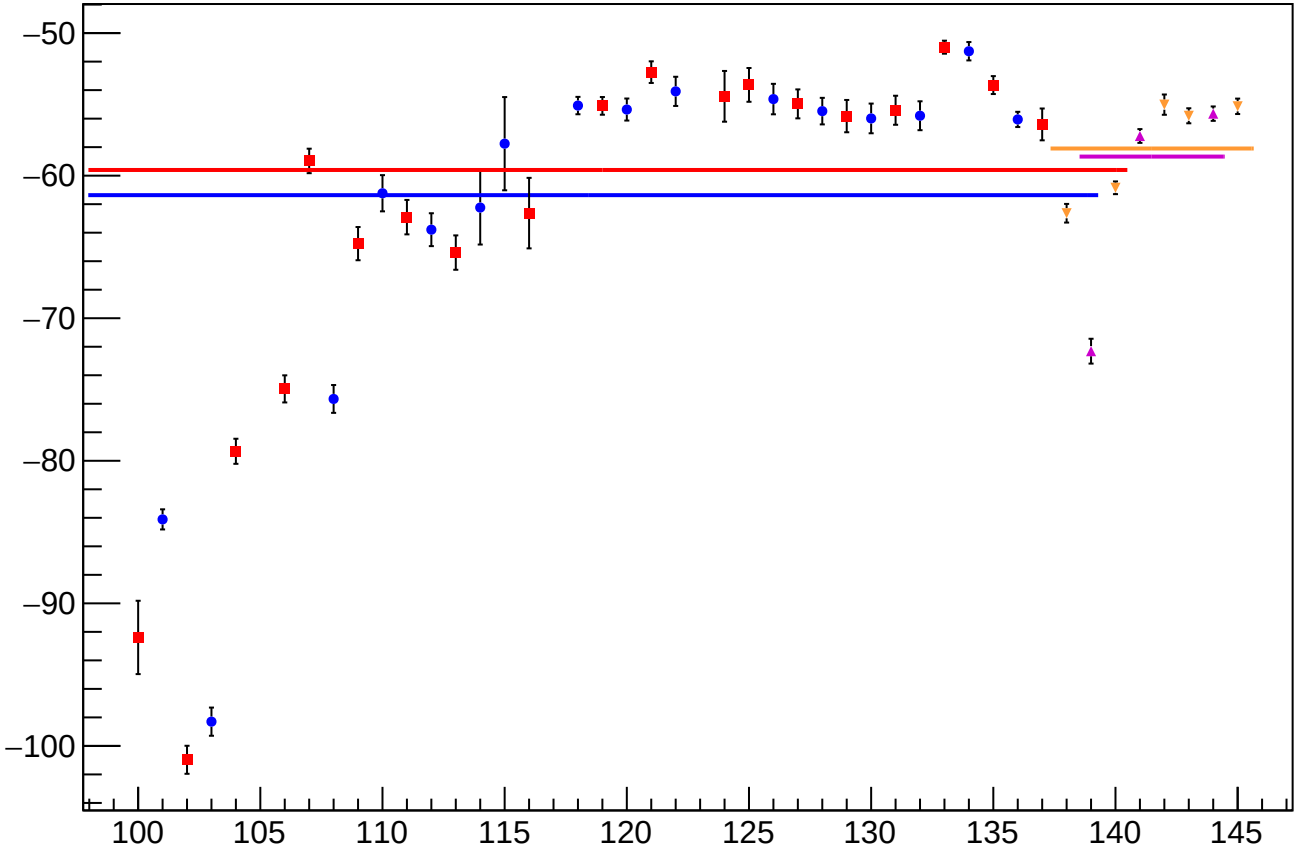
Right: -0.894+/-0.149 $\chi^2$/NDF: 219.1/34

In: -0.698+/-0.182 $\chi^2$/NDF:90.9/18

Out: -0.873+/-0.168 $\chi^2$/NDF:198.6/23

All: -0.793+/-0.123 $\chi^2$/NDF: 290.0/42

reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -61.367+/-0.219 $\chi^2$/NDF: 3351.2/15

Left Out: -58.095+/-0.247 $\chi^2$/NDF:153.8/4

Right Out: -59.601+/-0.207 $\chi^2$/NDF: 3421.3/18

Left In: -58.662+/-0.324 $\chi^2$/NDF:290.0/2

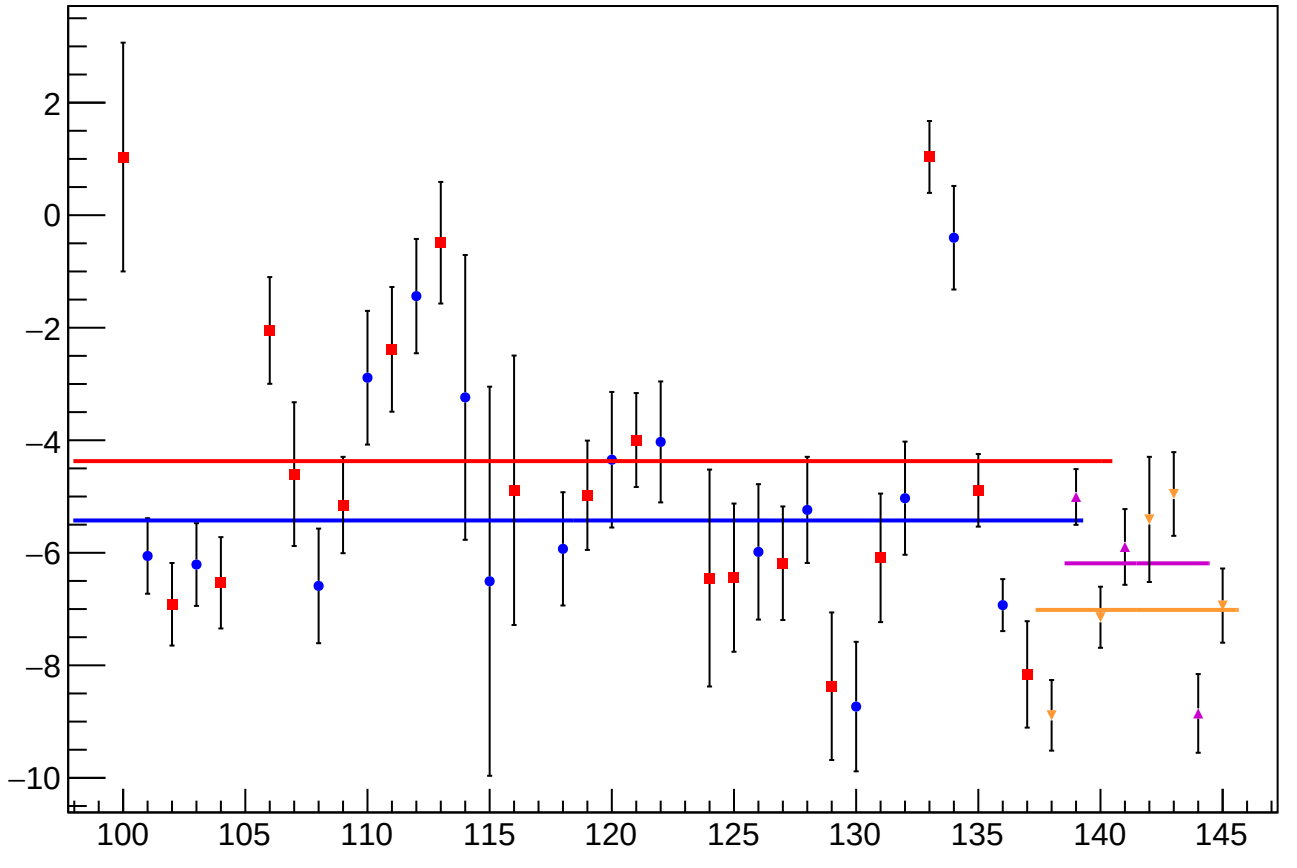
Left: -58.304+/-0.197 $\chi^2$/NDF: 445.8/7

Right: -60.433+/-0.150 $\chi^2$/NDF: 6806.9/34

In: -60.519+/-0.181 $\chi^2$/NDF:3689.0/18

Out: -58.982+/-0.159 $\chi^2$/NDF:3597.0/23

All: -59.648+/-0.119 $\chi^2$/NDF: 7326.7/42




Right In: -5.425+/-0.230 $\chi^2$/NDF: 76.0/15

Left Out: -7.015+/-0.304 $\chi^2$/NDF:18.7/4

Right Out: -4.371+/-0.223 $\chi^2$/NDF: 156.6/18

Left In: -6.187+/-0.346 $\chi^2$/NDF:20.4/2

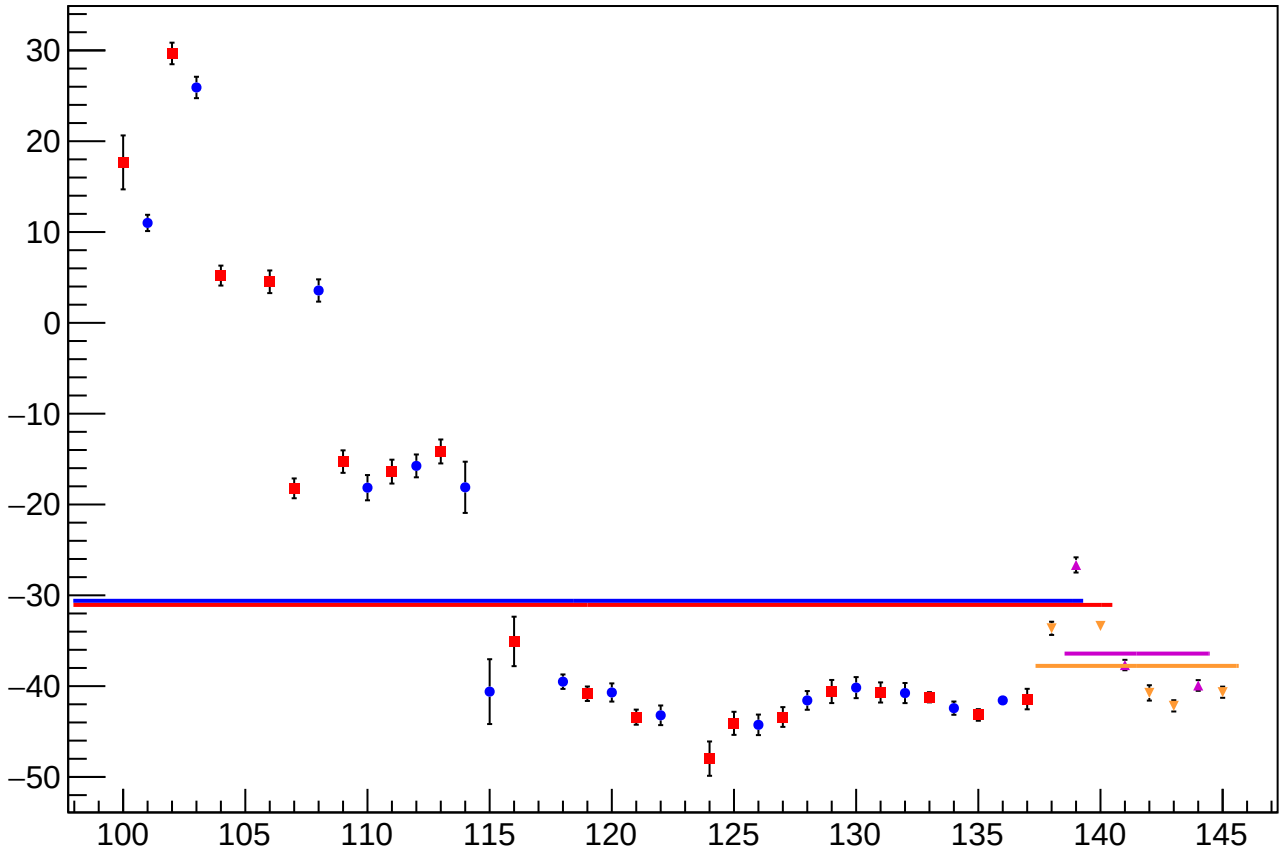
Left: -6.656+/-0.228 $\chi^2$/NDF: 42.4/7

Right: -4.881+/-0.160 $\chi^2$/NDF: 243.4/34

In: -5.658+/-0.192 $\chi^2$/NDF:99.7/18

Out: -5.295+/-0.179 $\chi^2$/NDF:224.7/23

All: -5.465+/-0.131 $\chi^2$/NDF: 326.4/42




Right In: -30.605+/-0.249 $\chi^2$/NDF: 6938.0/15

Left Out: -37.770+/-0.288 $\chi^2$/NDF:184.7/4

Right Out: -31.056+/-0.238 $\chi^2$/NDF: 6976.4/18

Left In: -36.417+/-0.369 $\chi^2$/NDF:176.5/2

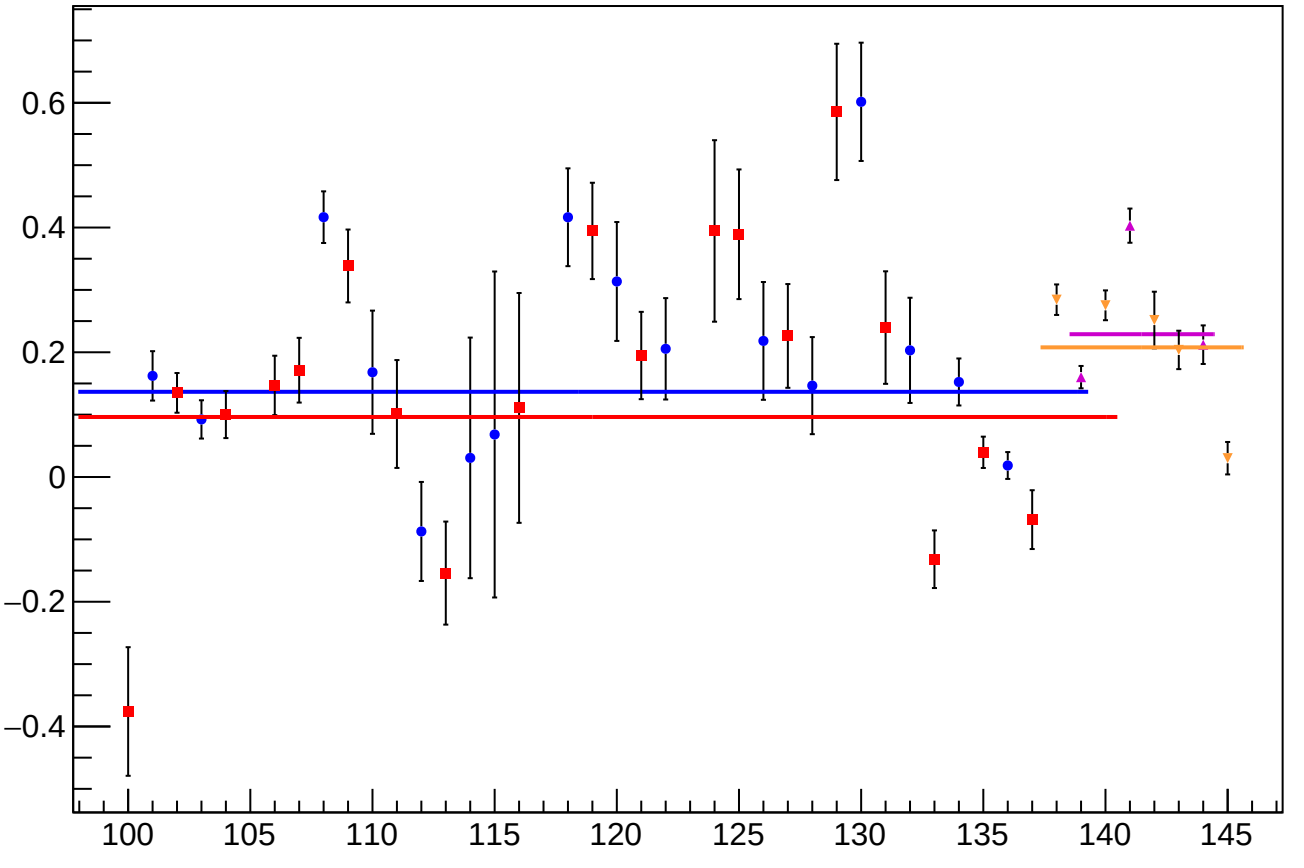
Left: -37.256+/-0.227 $\chi^2$/NDF: 369.5/7

Right: -30.841+/-0.172 $\chi^2$/NDF: 13916.2/34

In: -32.429+/-0.207 $\chi^2$/NDF:7285.0/18

Out: -33.772+/-0.183 $\chi^2$/NDF:7483.7/23

All: -33.180+/-0.137 $\chi^2$/NDF: 14792.3/42




Right In: 0.137+/-0.013 $\chi^2$/NDF: 129.2/15

Left Out: 0.208+/-0.012 $\chi^2$/NDF:65.3/4

Right Out: 0.096+/-0.012 $\chi^2$/NDF: 147.7/18

Left In: 0.229+/-0.013 $\chi^2$/NDF:55.4/2

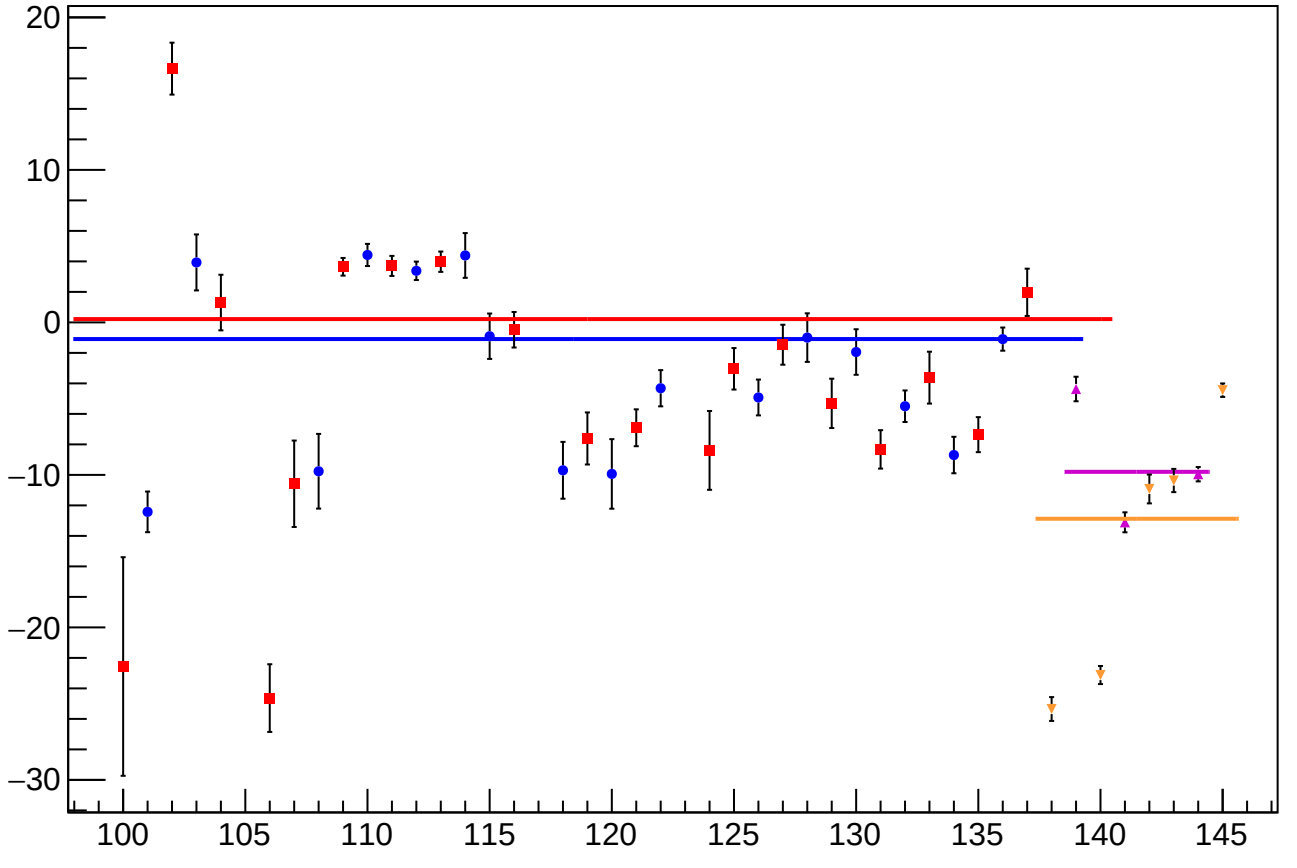
Left: 0.218+/-0.009 $\chi^2$/NDF: 122.0/7

Right: 0.116+/-0.009 $\chi^2$/NDF: 282.3/34

In: 0.179+/-0.009 $\chi^2$/NDF:209.8/18

Out: 0.152+/-0.009 $\chi^2$/NDF:253.5/23

All: 0.165+/-0.006 $\chi^2$/NDF: 468.1/42




Right In: -1.092+/-0.281 $\chi^2$/NDF: 332.0/15

Left Out: -12.876+/-0.283 $\chi^2$/NDF:933.9/4

Right Out: 0.216+/-0.266 $\chi^2$/NDF: 520.8/18

Left In: -9.799+/-0.346 $\chi^2$/NDF:71.2/2

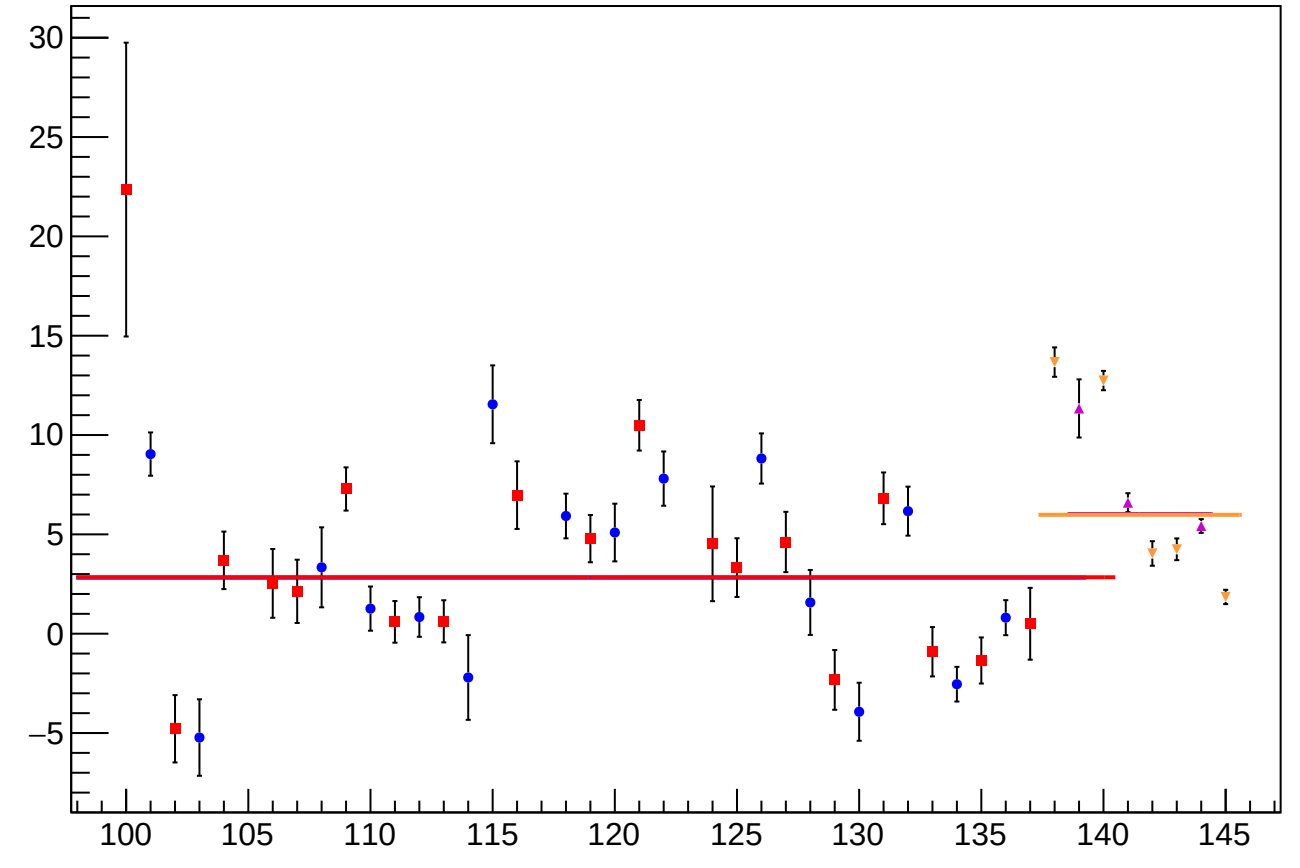
Left: -11.639+/-0.219 $\chi^2$/NDF: 1052.5/7

Right: -0.404+/-0.193 $\chi^2$/NDF: 864.2/34

In: -4.552+/-0.218 $\chi^2$/NDF:785.9/18

Out: -5.922+/-0.194 $\chi^2$/NDF:2588.9/23

All: -5.316+/-0.145 $\chi^2$/NDF: 3396.8/42




Right In: 2.823+/-0.313 $\chi^2$/NDF: 199.6/15

Left Out: 5.984+/-0.225 $\chi^2$/NDF:452.2/4

Right Out: 2.840+/-0.322 $\chi^2$/NDF: 145.0/18

Left In: 6.024+/-0.275 $\chi^2$/NDF:17.6/2

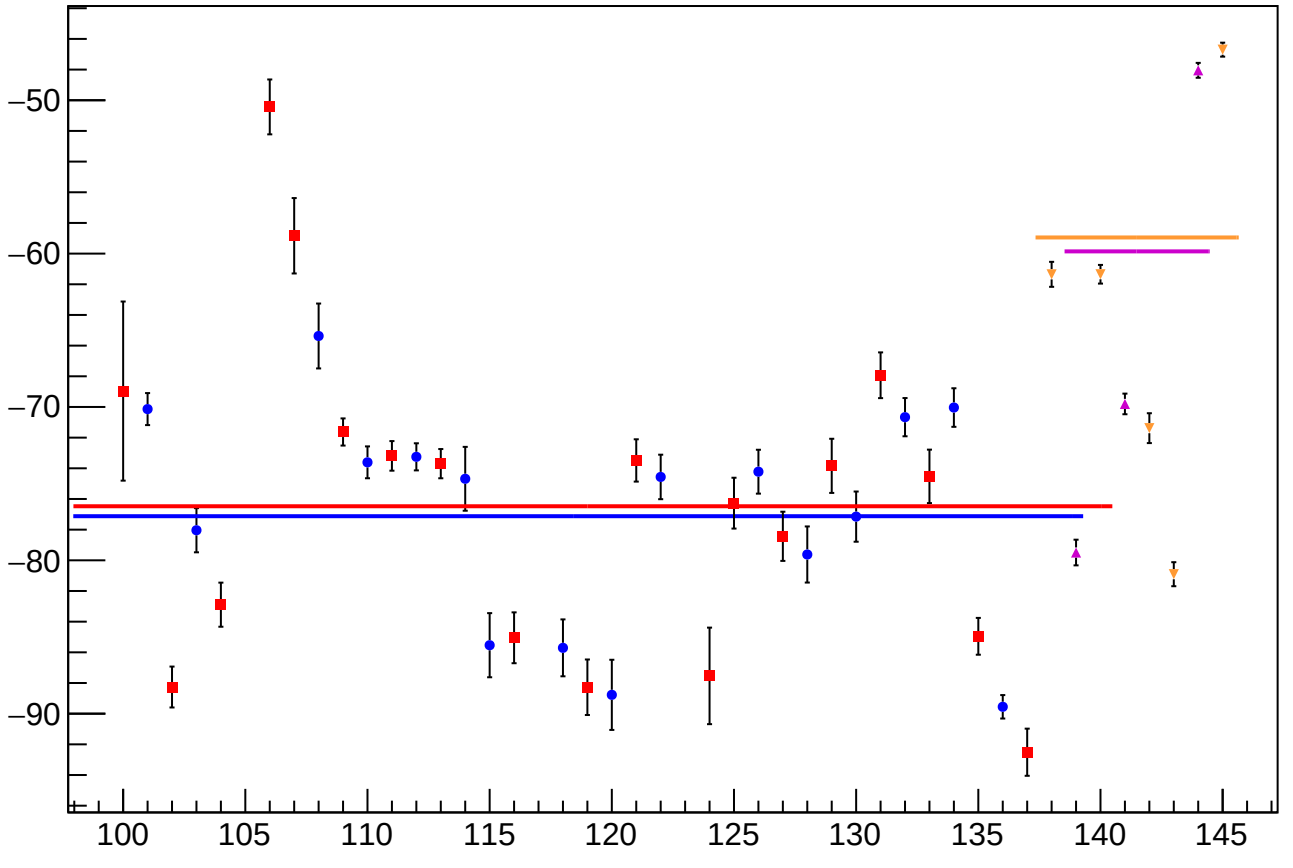
Left: 6.000+/-0.174 $\chi^2$/NDF: 469.8/7

Right: 2.831+/-0.225 $\chi^2$/NDF: 344.5/34

In: 4.630+/-0.207 $\chi^2$/NDF:276.1/18

Out: 4.951+/-0.185 $\chi^2$/NDF:661.0/23

All: 4.809+/-0.138 $\chi^2$/NDF: 938.4/42




Right In: -77.123+/-0.326 $\chi^2$/NDF: 503.3/15

Left Out: -58.947+/-0.292 $\chi^2$/NDF:1695.8/4

Right Out: -76.475+/-0.328 $\chi^2$/NDF: 695.8/18

Left In: -59.855+/-0.356 $\chi^2$/NDF:1359.8/2

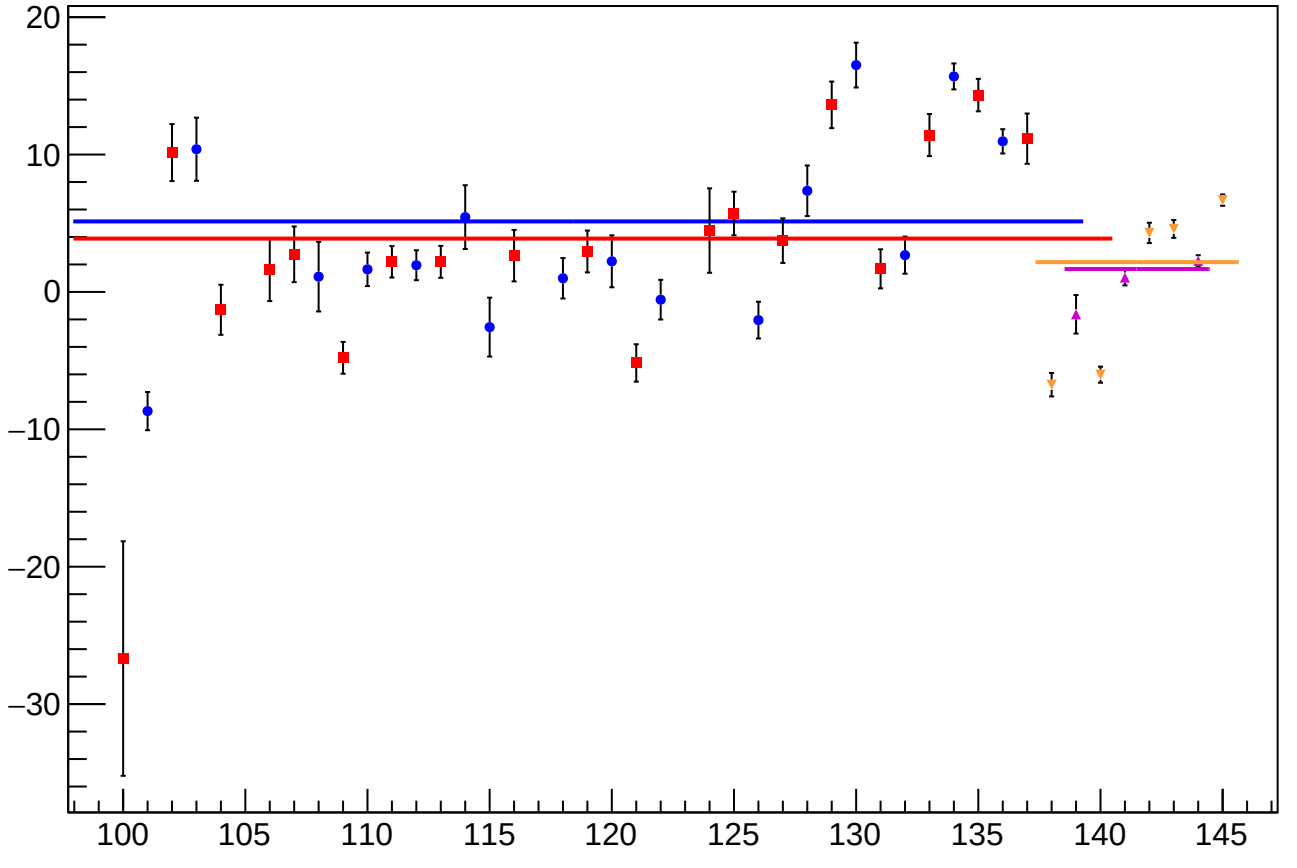
Left: -59.312+/-0.226 $\chi^2$/NDF: 3059.5/7

Right: -76.801+/-0.231 $\chi^2$/NDF: 1201.1/34

In: -69.248+/-0.241 $\chi^2$/NDF:3140.5/18

Out: -66.691+/-0.218 $\chi^2$/NDF:3980.8/23

All: -67.846+/-0.162 $\chi^2$/NDF: 7183.2/42




Right In: 5.132+/-0.350 $\chi^2$/NDF: 412.3/15

Left Out: 2.169+/-0.264 $\chi^2$/NDF:445.3/4

Right Out: 3.885+/-0.361 $\chi^2$/NDF: 291.5/18

Left In: 1.667+/-0.322 $\chi^2$/NDF:8.8/2

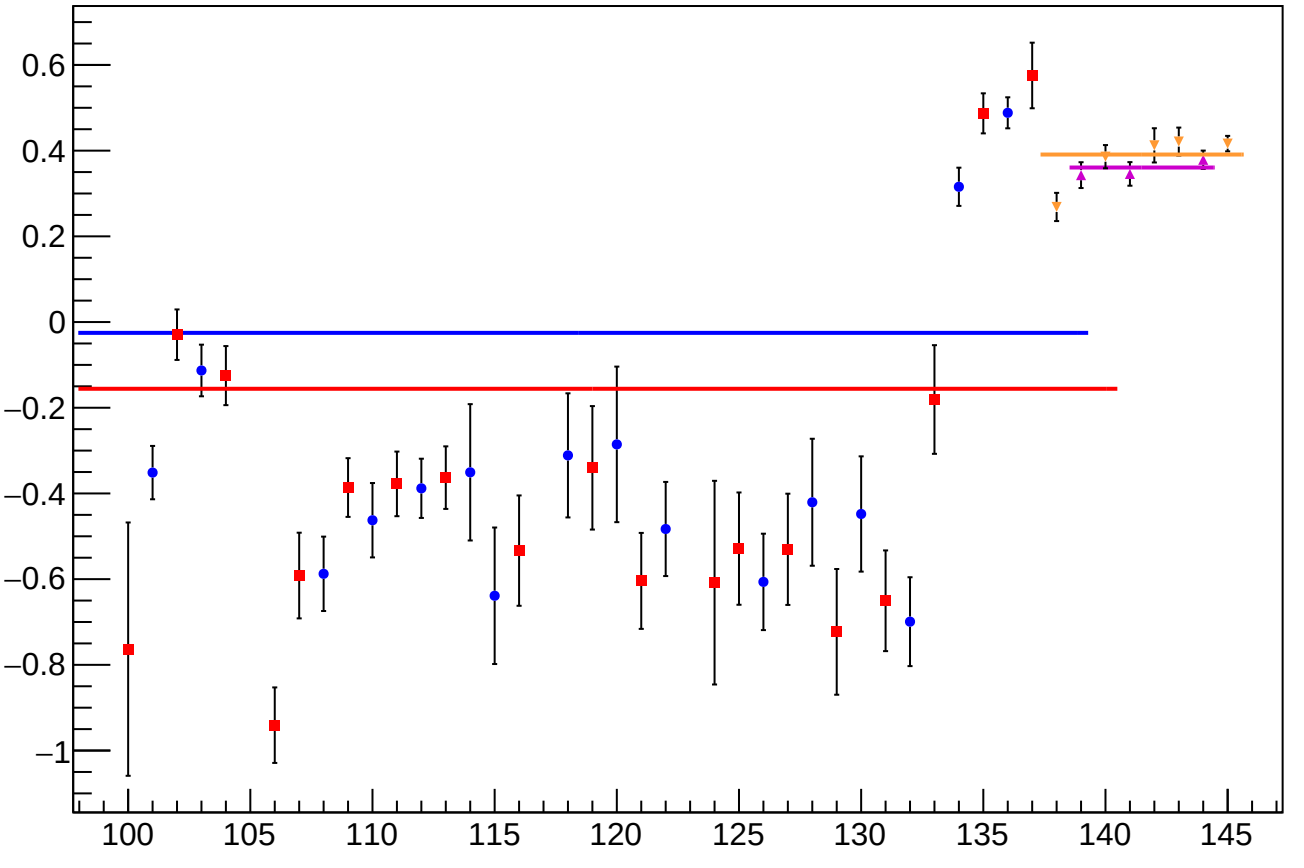
Left: 1.967+/-0.204 $\chi^2$/NDF: 455.6/7

Right: 4.529+/-0.251 $\chi^2$/NDF: 710.0/34

In: 3.257+/-0.237 $\chi^2$/NDF:474.3/18

Out: 2.767+/-0.213 $\chi^2$/NDF:751.5/23

All: 2.987+/-0.159 $\chi^2$/NDF: 1228.1/42




Right In: -0.025+/-0.019 $\chi^2$/NDF: 512.5/15

Left Out: 0.391+/-0.012 $\chi^2$/NDF:17.0/4

Right Out: -0.156+/-0.020 $\chi^2$/NDF: 494.9/18

Left In: 0.361+/-0.015 $\chi^2$/NDF:1.4/2

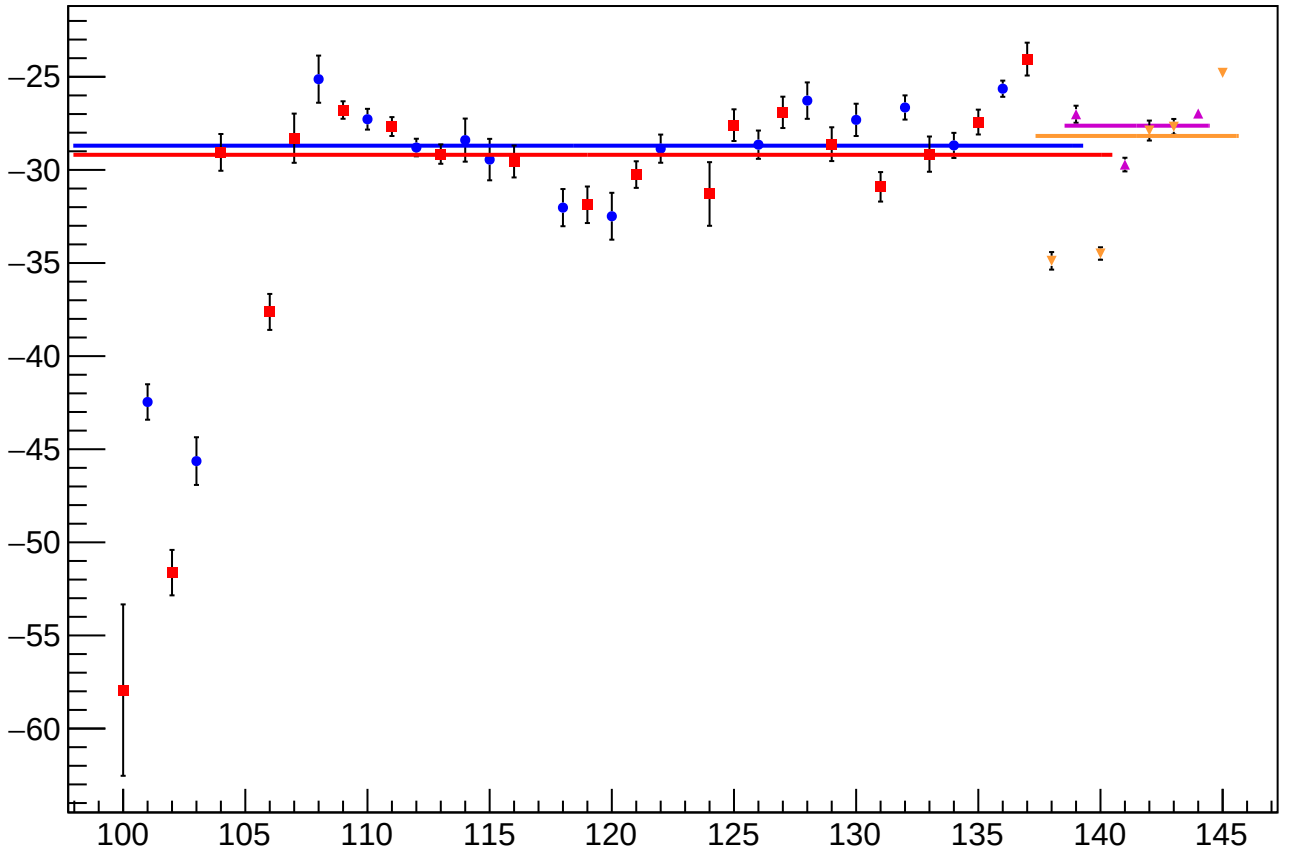
Left: 0.379+/-0.009 $\chi^2$/NDF: 20.9/7

Right: -0.086+/-0.014 $\chi^2$/NDF: 1029.5/34

In: 0.215+/-0.012 $\chi^2$/NDF:772.2/18

Out: 0.248+/-0.010 $\chi^2$/NDF:1052.0/23

All: 0.233+/-0.008 $\chi^2$/NDF: 1828.7/42




Right In: -28.698+/-0.186 $\chi^2$/NDF: 487.3/15

Left Out: -28.176+/-0.146 $\chi^2$/NDF:839.7/4

Right Out: -29.189+/-0.181 $\chi^2$/NDF: 557.3/18

Left In: -27.626+/-0.178 $\chi^2$/NDF:42.4/2

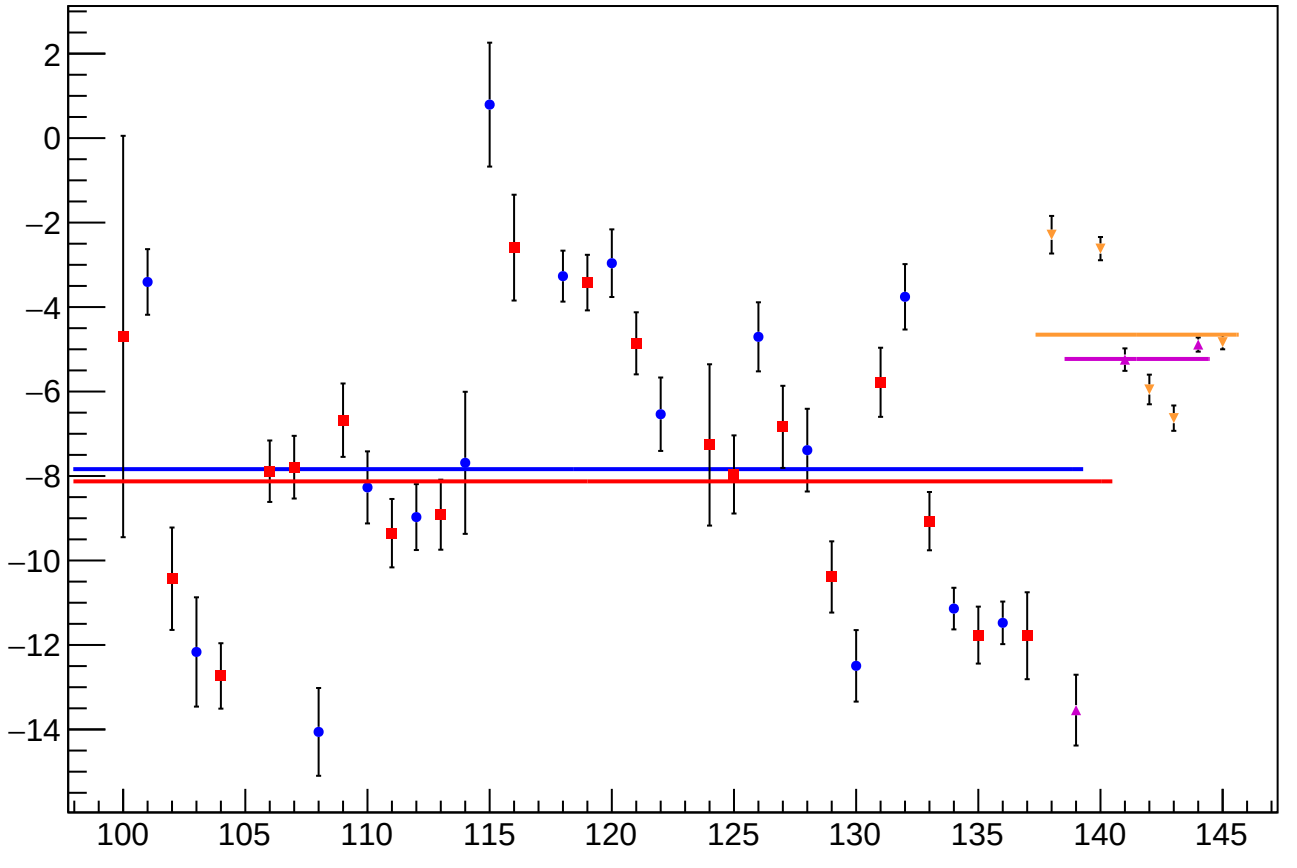
Left: -27.955+/-0.113 $\chi^2$/NDF: 887.9/7

Right: -28.950+/-0.130 $\chi^2$/NDF: 1048.2/34

In: -28.140+/-0.129 $\chi^2$/NDF:547.1/18

Out: -28.574+/-0.114 $\chi^2$/NDF:1416.0/23

All: -28.384+/-0.085 $\chi^2$/NDF: 1969.5/42




Right In: -7.837+/-0.195 $\chi^2$/NDF: 383.2/15

Left Out: -4.654+/-0.117 $\chi^2$/NDF:141.3/4

Right Out: -8.127+/-0.197 $\chi^2$/NDF: 197.3/18

Left In: -5.228+/-0.140 $\chi^2$/NDF:102.5/2

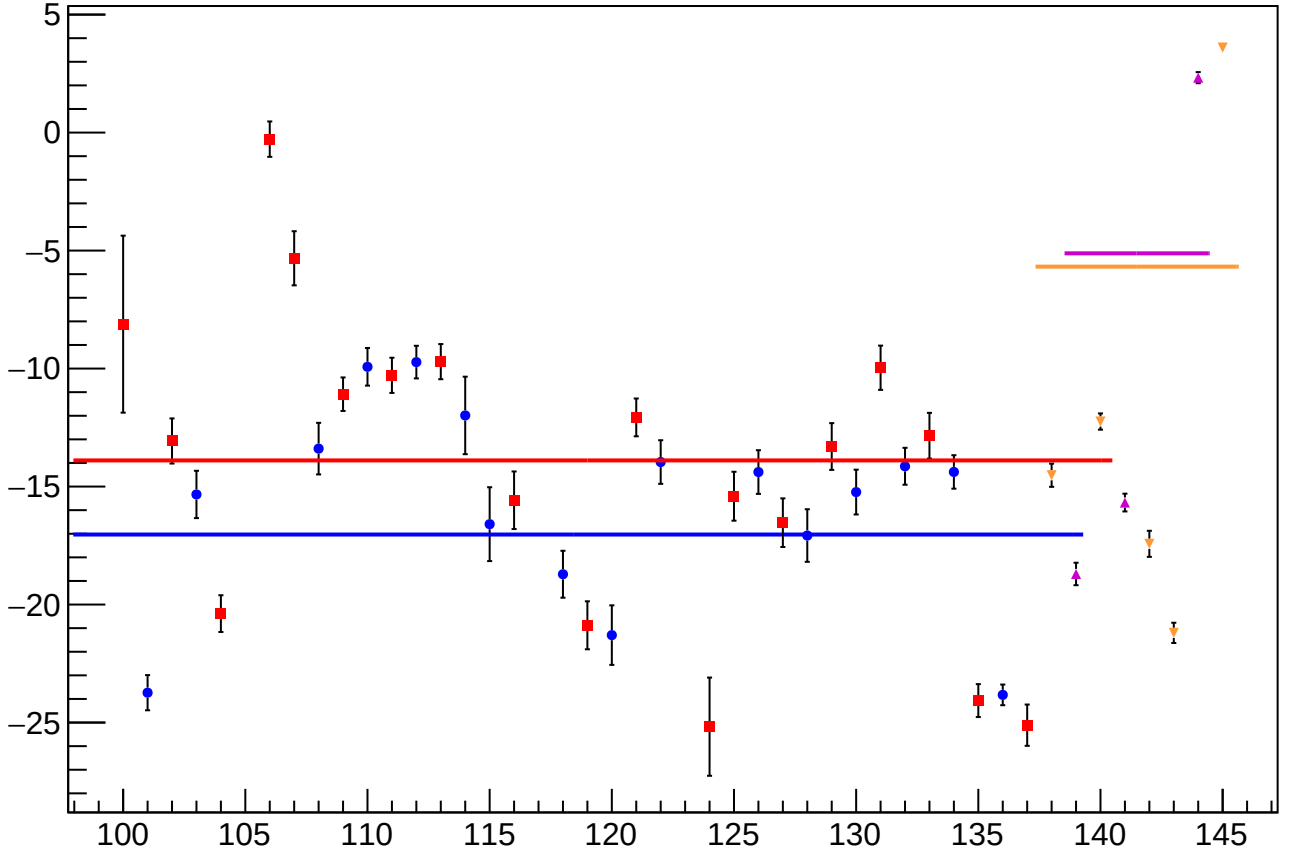
Left: -4.890+/-0.090 $\chi^2$/NDF: 253.8/7

Right: -7.981+/-0.138 $\chi^2$/NDF: 581.6/34

In: -6.117+/-0.114 $\chi^2$/NDF:603.8/18

Out: -5.561+/-0.101 $\chi^2$/NDF:569.1/23

All: -5.805+/-0.075 $\chi^2$/NDF: 1186.3/42




Right In: -17.033+/-0.209 $\chi^2$/NDF: 601.2/15

Left Out: -5.681+/-0.150 $\chi^2$/NDF:4436.5/4

Right Out: -13.892+/-0.209 $\chi^2$/NDF: 1017.4/18

Left In: -5.116+/-0.184 $\chi^2$/NDF:2604.8/2

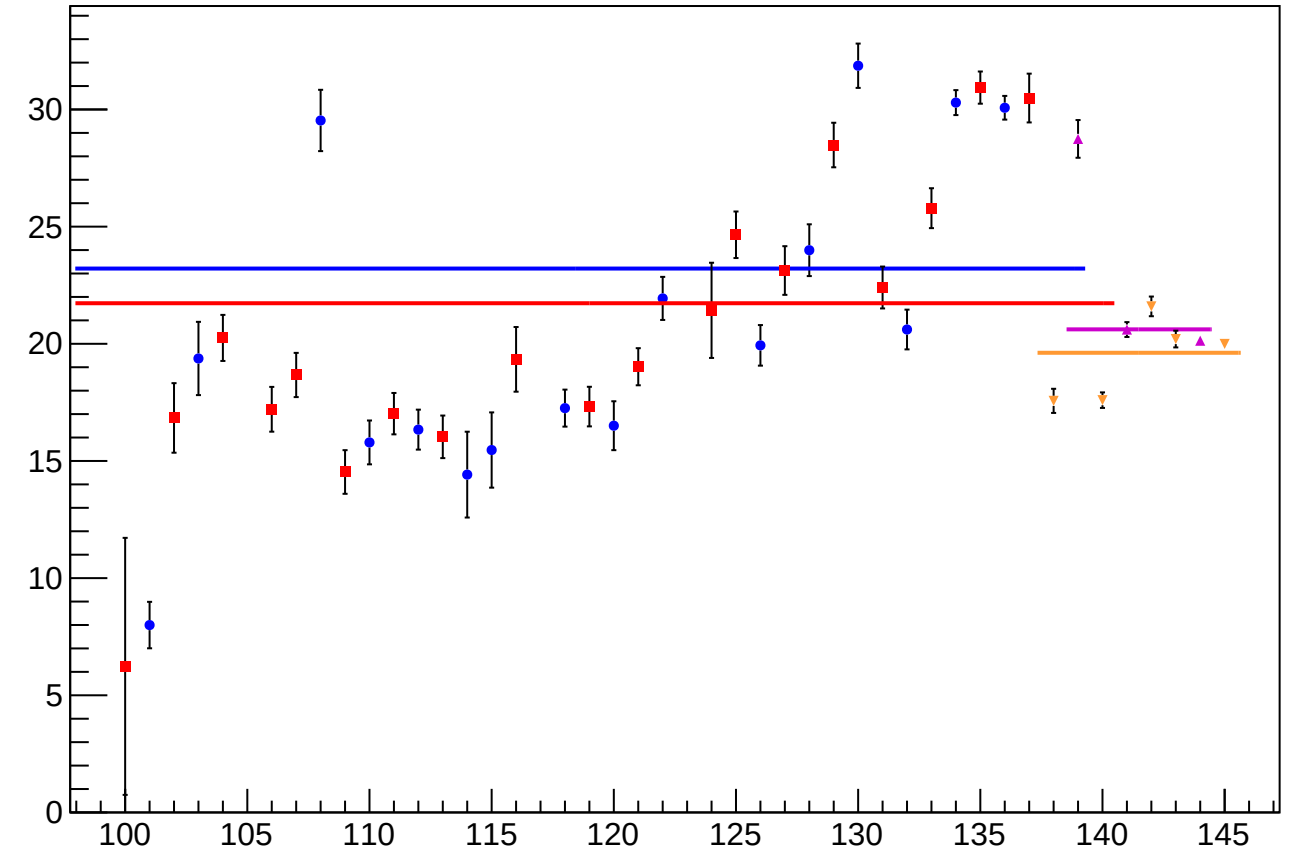
Left: -5.455+/-0.116 $\chi^2$/NDF: 7047.0/7

Right: -15.462+/-0.148 $\chi^2$/NDF: 1731.1/34

In: -10.307+/-0.138 $\chi^2$/NDF:5034.2/18

Out: -8.469+/-0.122 $\chi^2$/NDF:6470.2/23

All: -9.274+/-0.091 $\chi^2$/NDF: 11603.8/42




Right In: 23.211+/-0.218 $\chi^2$/NDF: 1008.2/15

Left Out: 19.617+/-0.137 $\chi^2$/NDF:81.9/4

Right Out: 21.731+/-0.224 $\chi^2$/NDF: 558.2/18

Left In: 20.616+/-0.164 $\chi^2$/NDF:108.0/2

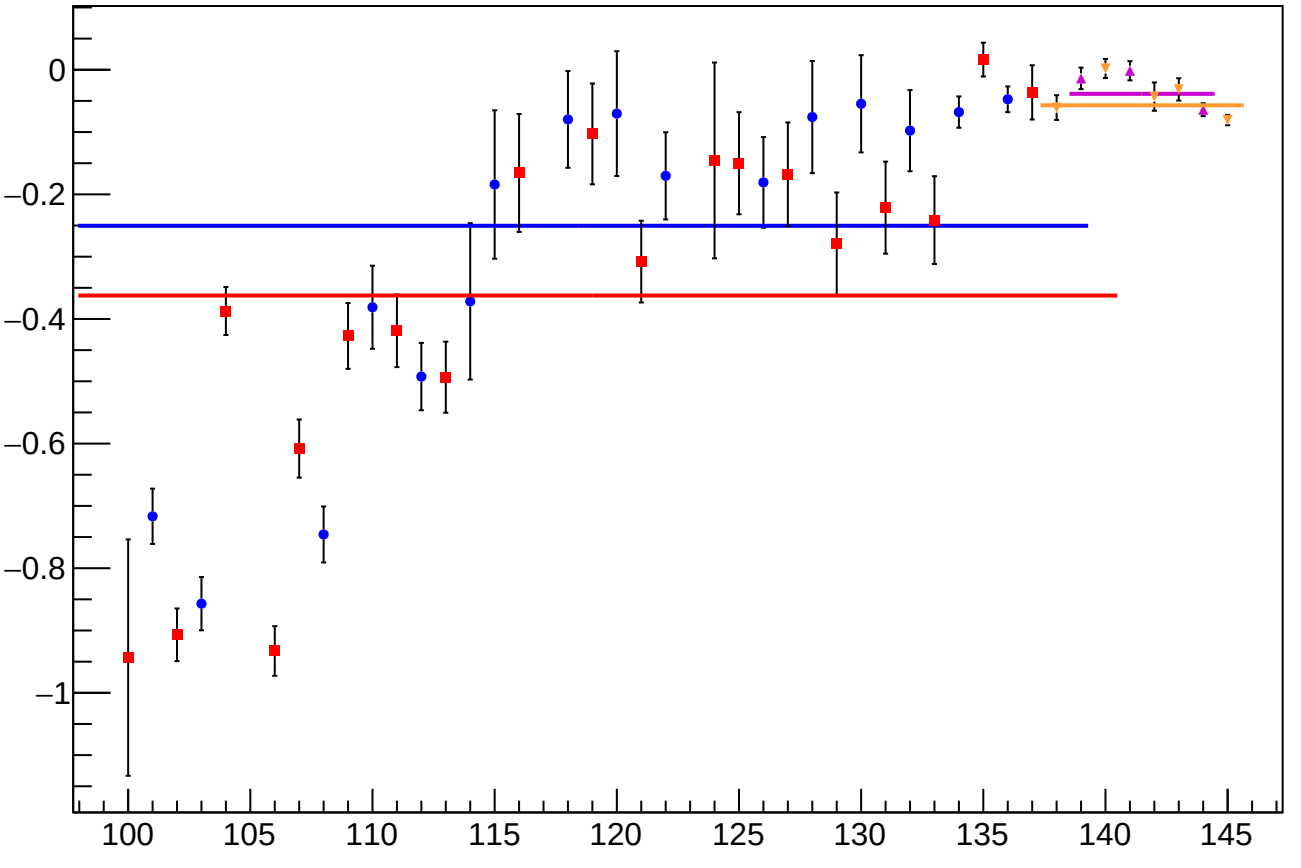
Left: 20.026+/-0.105 $\chi^2$/NDF: 211.8/7

Right: 22.492+/-0.156 $\chi^2$/NDF: 1588.8/34

In: 21.553+/-0.131 $\chi^2$/NDF:1206.7/18

Out: 20.188+/-0.117 $\chi^2$/NDF:704.9/23

All: 20.791+/-0.087 $\chi^2$/NDF: 1972.1/42




Right In: -0.250+/-0.012 $\chi^2$/NDF: 633.5/15

Left Out: -0.057+/-0.006 $\chi^2$/NDF:25.6/4

Right Out: -0.362+/-0.012 $\chi^2$/NDF: 704.3/18

Left In: -0.039+/-0.008 $\chi^2$/NDF:14.0/2

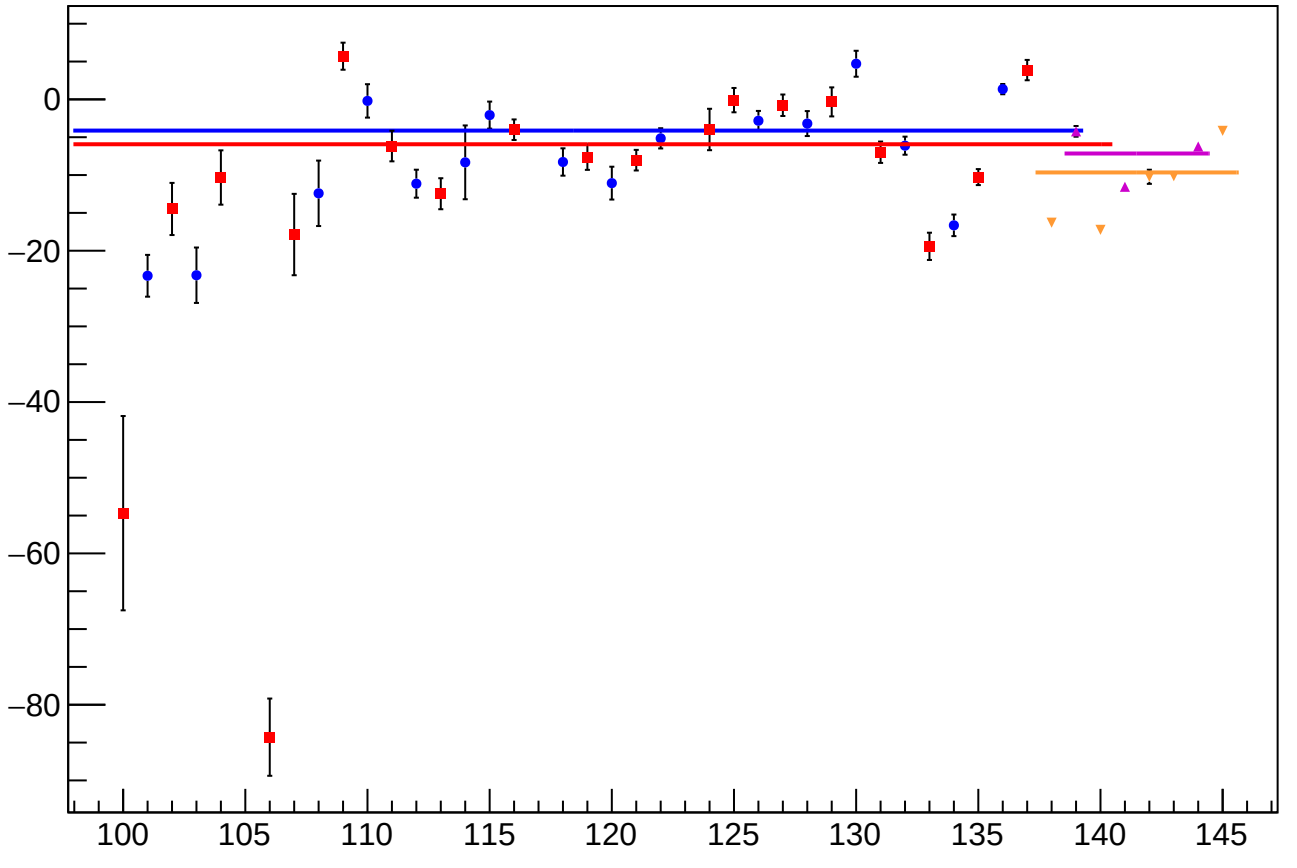
Left: -0.050+/-0.005 $\chi^2$/NDF: 43.1/7

Right: -0.303+/-0.008 $\chi^2$/NDF: 1381.3/34

In: -0.103+/-0.006 $\chi^2$/NDF:877.7/18

Out: -0.117+/-0.005 $\chi^2$/NDF:1220.3/23

All: -0.111+/-0.004 $\chi^2$/NDF: 2101.1/42




Right In: -4.124+/-0.382 $\chi^2$/NDF: 287.9/15

Left Out: -9.656+/-0.247 $\chi^2$/NDF:511.8/4

Right Out: -5.930+/-0.408 $\chi^2$/NDF: 482.6/18

Left In: -7.153+/-0.312 $\chi^2$/NDF:71.1/2

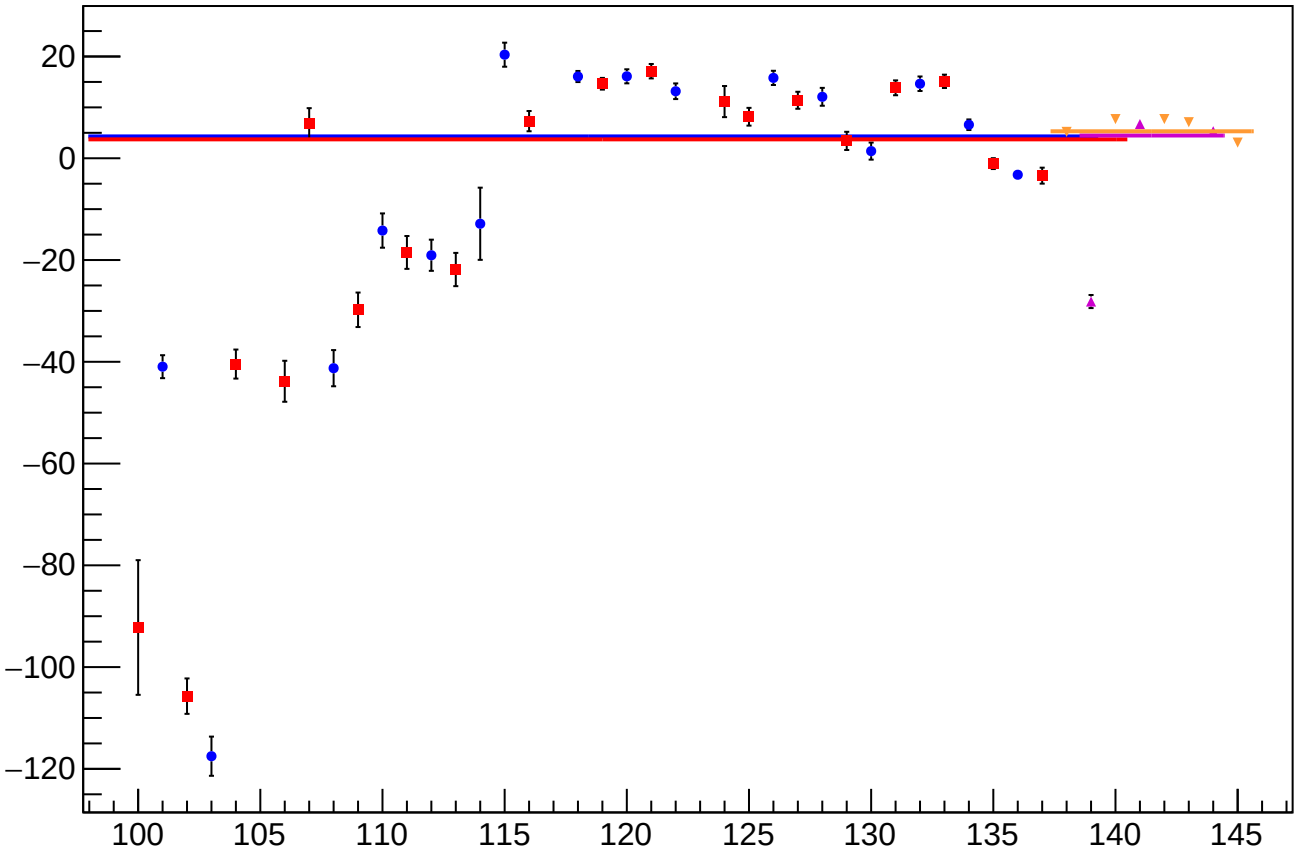
Left: -8.688+/-0.194 $\chi^2$/NDF: 622.5/7

Right: -4.968+/-0.279 $\chi^2$/NDF: 781.0/34

In: -5.942+/-0.241 $\chi^2$/NDF:396.8/18

Out: -8.654+/-0.211 $\chi^2$/NDF:1055.4/23

All: -7.476+/-0.159 $\chi^2$/NDF: 1523.7/42




Right In: 4.292+/-0.385 $\chi^2$/NDF: 2169.1/15

Left Out: 5.301+/-0.198 $\chi^2$/NDF:112.8/4

Right Out: 3.717+/-0.423 $\chi^2$/NDF: 2007.2/18

Left In: 4.476+/-0.250 $\chi^2$/NDF:675.9/2

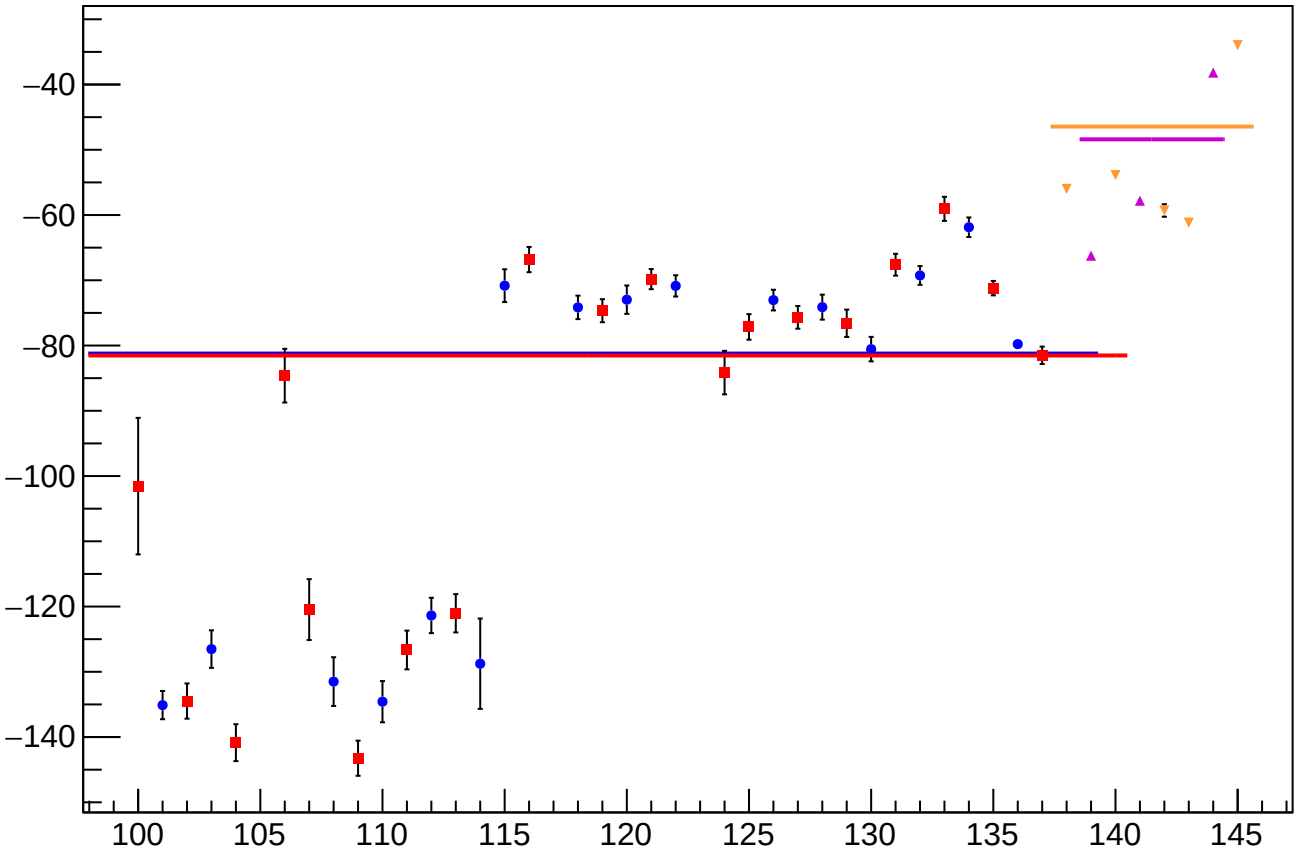
Left: 4.983+/-0.155 $\chi^2$/NDF: 795.4/7

Right: 4.031+/-0.285 $\chi^2$/NDF: 4177.4/34

In: 4.422+/-0.210 $\chi^2$/NDF:2845.2/18

Out: 5.017+/-0.179 $\chi^2$/NDF:2131.5/23

All: 4.766+/-0.136 $\chi^2$/NDF: 4981.4/42




Right In: -81.231+/-0.417 $\chi^2$/NDF: 1971.1/15

Left Out: -46.441+/-0.255 $\chi^2$/NDF:2087.7/4

Right Out: -81.523+/-0.462 $\chi^2$/NDF: 2293.2/18

Left In: -48.398+/-0.321 $\chi^2$/NDF:1365.4/2

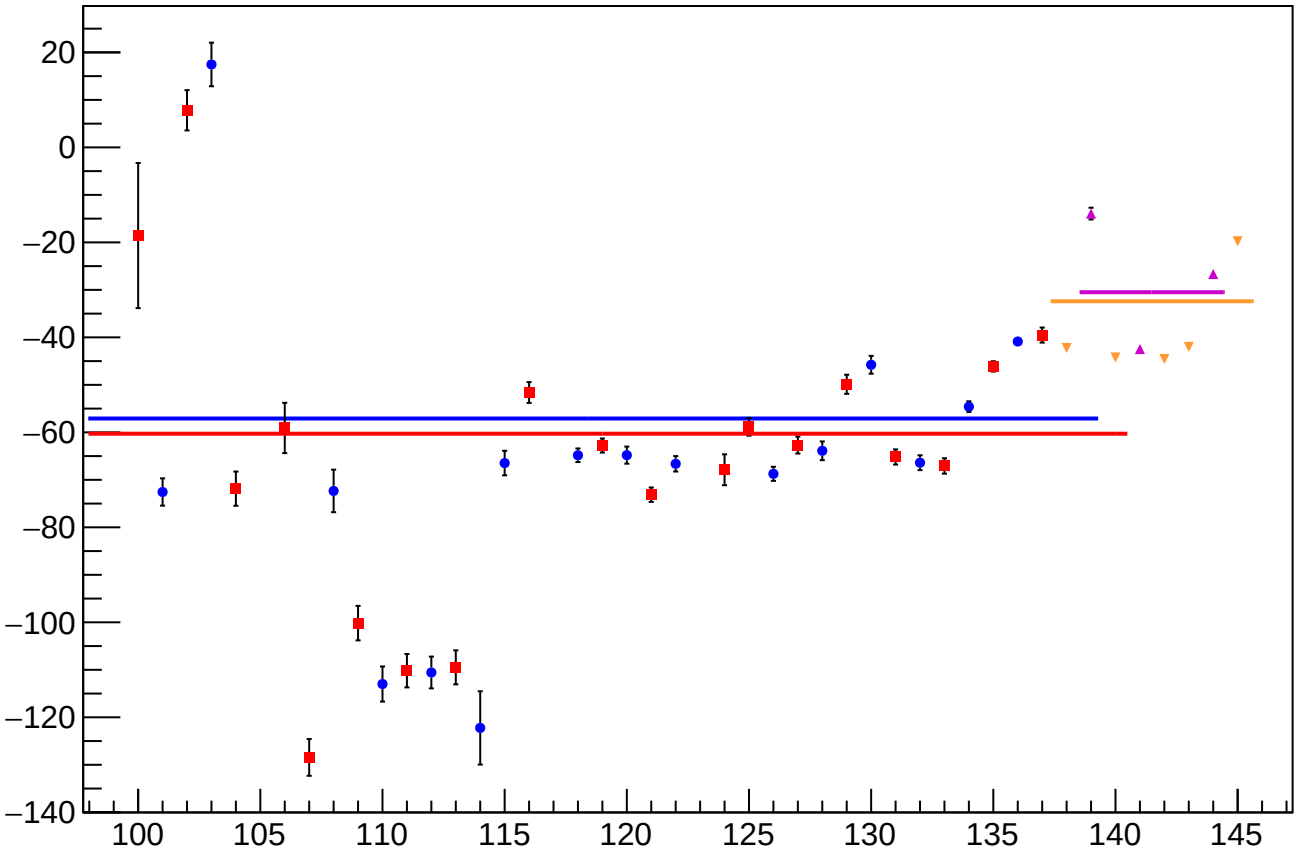
Left: -47.198+/-0.200 $\chi^2$/NDF: 3475.8/7

Right: -81.362+/-0.309 $\chi^2$/NDF: 4264.5/34

In: -60.644+/-0.255 $\chi^2$/NDF:7226.7/18

Out: -54.665+/-0.223 $\chi^2$/NDF:8802.9/23

All: -57.268+/-0.168 $\chi^2$/NDF: 16341.1/42




Right In: -57.089+/-0.426 $\chi^2$/NDF: 1526.8/15

Left Out: -32.398+/-0.231 $\chi^2$/NDF:2576.5/4

Right Out: -60.287+/-0.470 $\chi^2$/NDF: 1587.9/18

Left In: -30.496+/-0.292 $\chi^2$/NDF:777.2/2

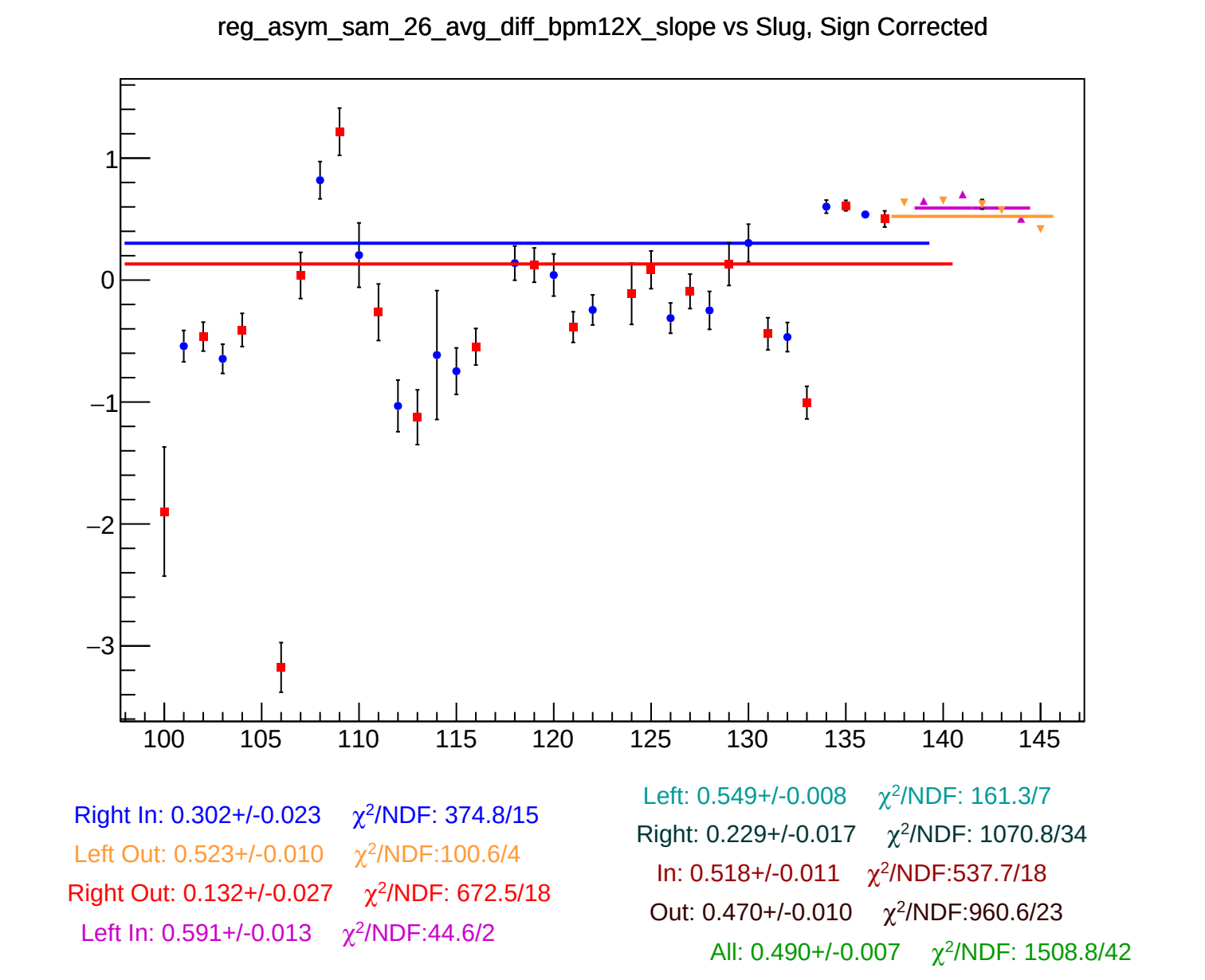
Left: -31.665+/-0.181 $\chi^2$/NDF: 3379.8/7

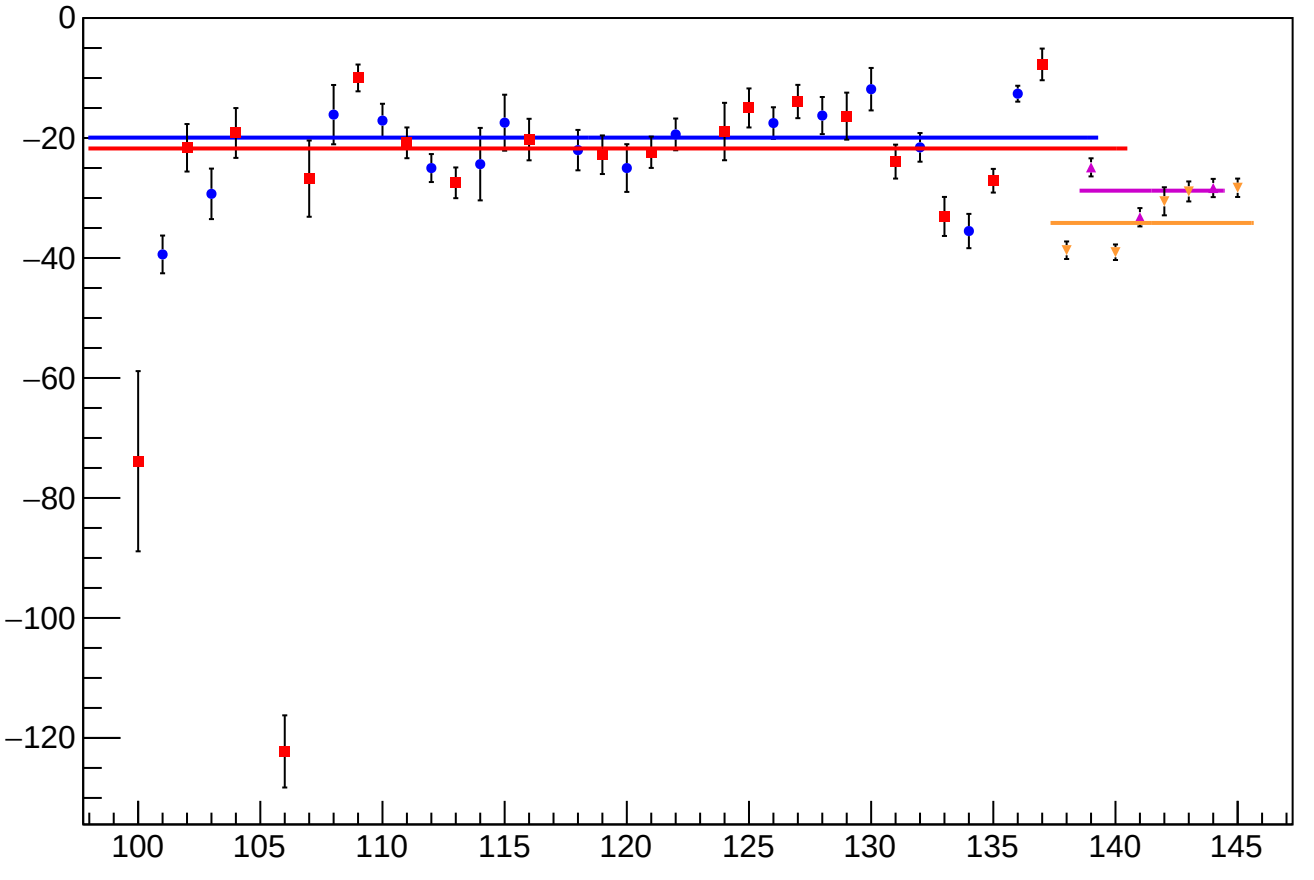
Right: -58.530+/-0.316 $\chi^2$/NDF: 3140.1/34

In: -38.998+/-0.241 $\chi^2$/NDF:4958.4/18

Out: -37.831+/-0.207 $\chi^2$/NDF:6999.1/23

All: -38.328+/-0.157 $\chi^2$/NDF: 11971.0/42


reg_asym_sam_26_avg_diff_bpm12X_slope vs Slug, Sign Corrected
1
0
−1
−2
−3
100
105
110
115
120
125
130
135
140
145
Right In: 0.302+/-0.023 χ²/NDF: 374.8/15
Left Out: 0.523+/-0.010 χ²/NDF:100.6/4
Right Out: 0.132+/-0.027 χ²/NDF: 672.5/18
Left In: 0.591+/-0.013 χ²/NDF:44.6/2
Left: 0.549+/-0.008 χ²/NDF: 161.3/7
Right: 0.229+/-0.017 χ²/NDF: 1070.8/34
In: 0.518+/-0.011 χ²/NDF:537.7/18
Out: 0.470+/-0.010 χ²/NDF:960.6/23
All: 0.490+/-0.007 χ²/NDF: 1508.8/42




Right In: -19.935+/-0.695 $\chi^2$/NDF: 120.6/15

Left Out: -34.158+/-0.701 $\chi^2$/NDF:50.8/4

Right Out: -21.746+/-0.714 $\chi^2$/NDF: 388.3/18

Left In: -28.779+/-0.877 $\chi^2$/NDF:15.1/2

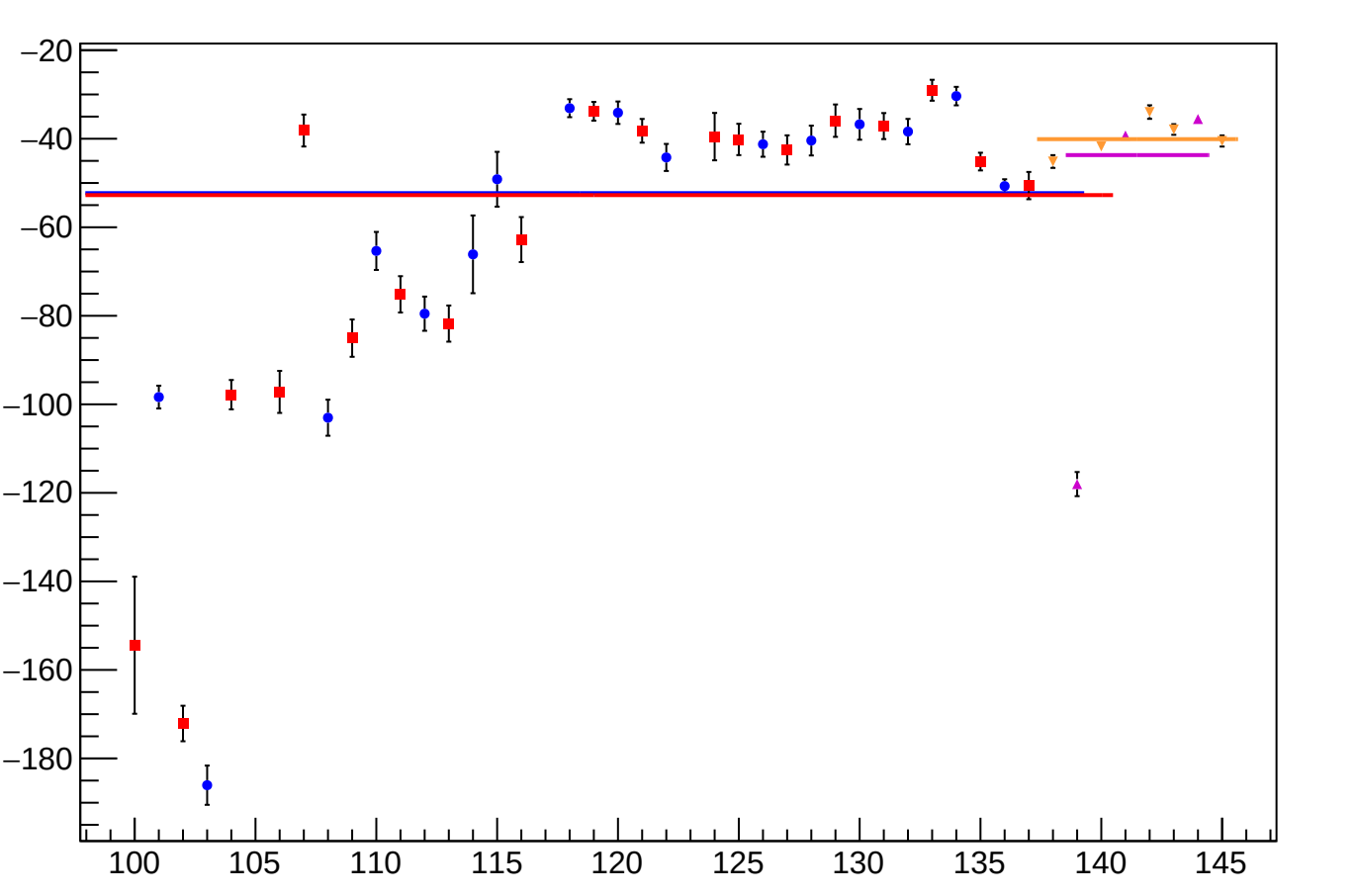
Left: -32.060+/-0.548 $\chi^2$/NDF: 88.9/7

Right: -20.816+/-0.498 $\chi^2$/NDF: 512.2/34

In: -23.345+/-0.545 $\chi^2$/NDF:198.2/18

Out: -28.059+/-0.500 $\chi^2$/NDF:593.0/23

All: -25.902+/-0.368 $\chi^2$/NDF: 831.8/42




Right In: -52.296+/-0.708 $\chi^2$/NDF: 1778.2/15

Left Out: -40.094+/-0.569 $\chi^2$/NDF:33.9/4

Right Out: -52.737+/-0.748 $\chi^2$/NDF: 1662.5/18

Left In: -43.694+/-0.761 $\chi^2$/NDF:811.3/2

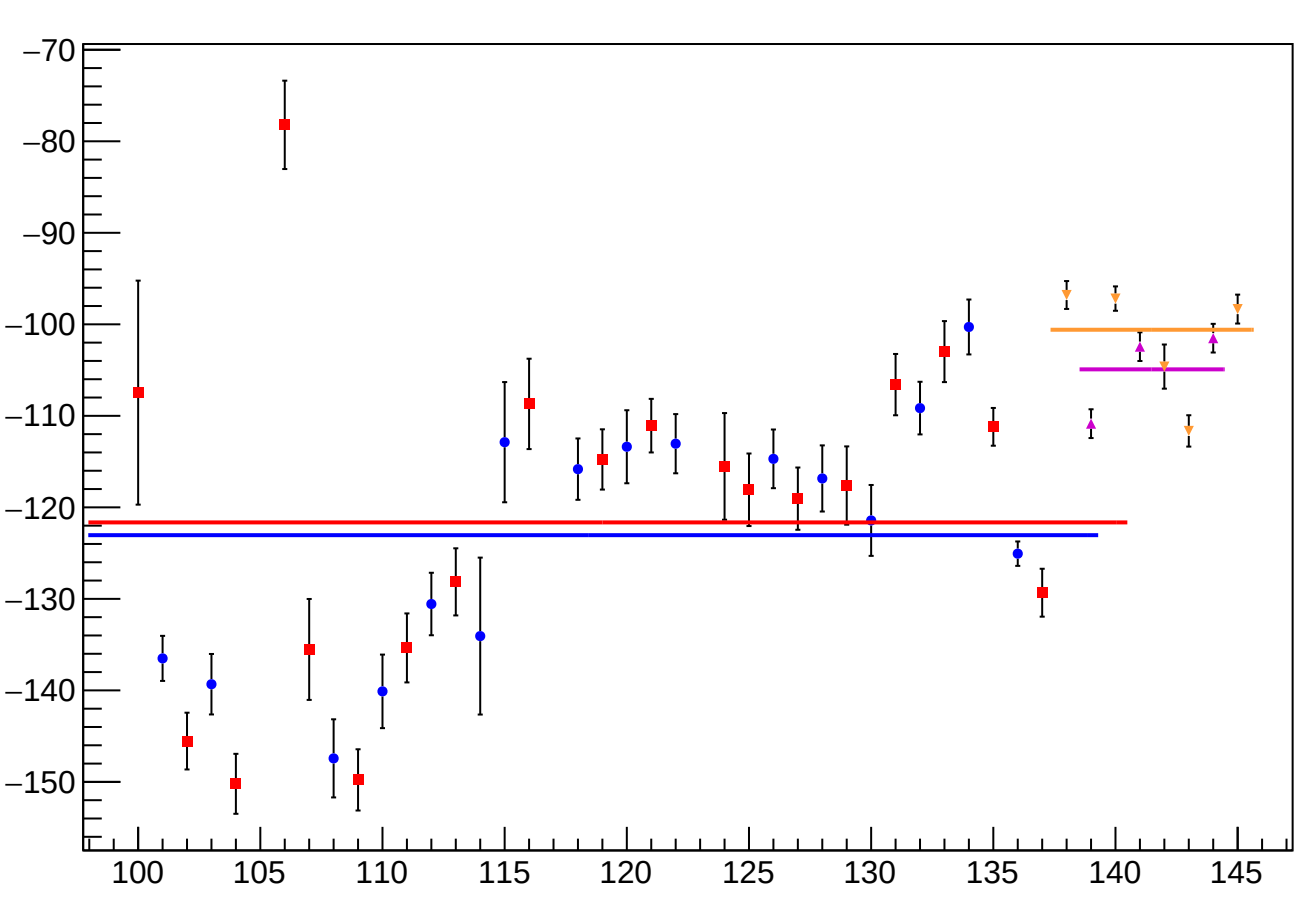
Left: -41.387+/-0.456 $\chi^2$/NDF: 859.6/7

Right: -52.505+/-0.514 $\chi^2$/NDF: 3440.9/34

In: -48.302+/-0.518 $\chi^2$/NDF:2658.1/18

Out: -44.730+/-0.453 $\chi^2$/NDF:1877.2/23

All: -46.278+/-0.341 $\chi^2$/NDF: 4562.2/42




Right In: -123.039+/-0.750 $\chi^2$/NDF: 226.8/15

Left Out: -100.593+/-0.724 $\chi^2$/NDF:59.2/4

Right Out: -121.646+/-0.801 $\chi^2$/NDF: 424.5/18

Left In: -104.922+/-0.906 $\chi^2$/NDF:21.5/2

Left: -102.281+/-0.566 $\chi^2$/NDF: 94.6/7

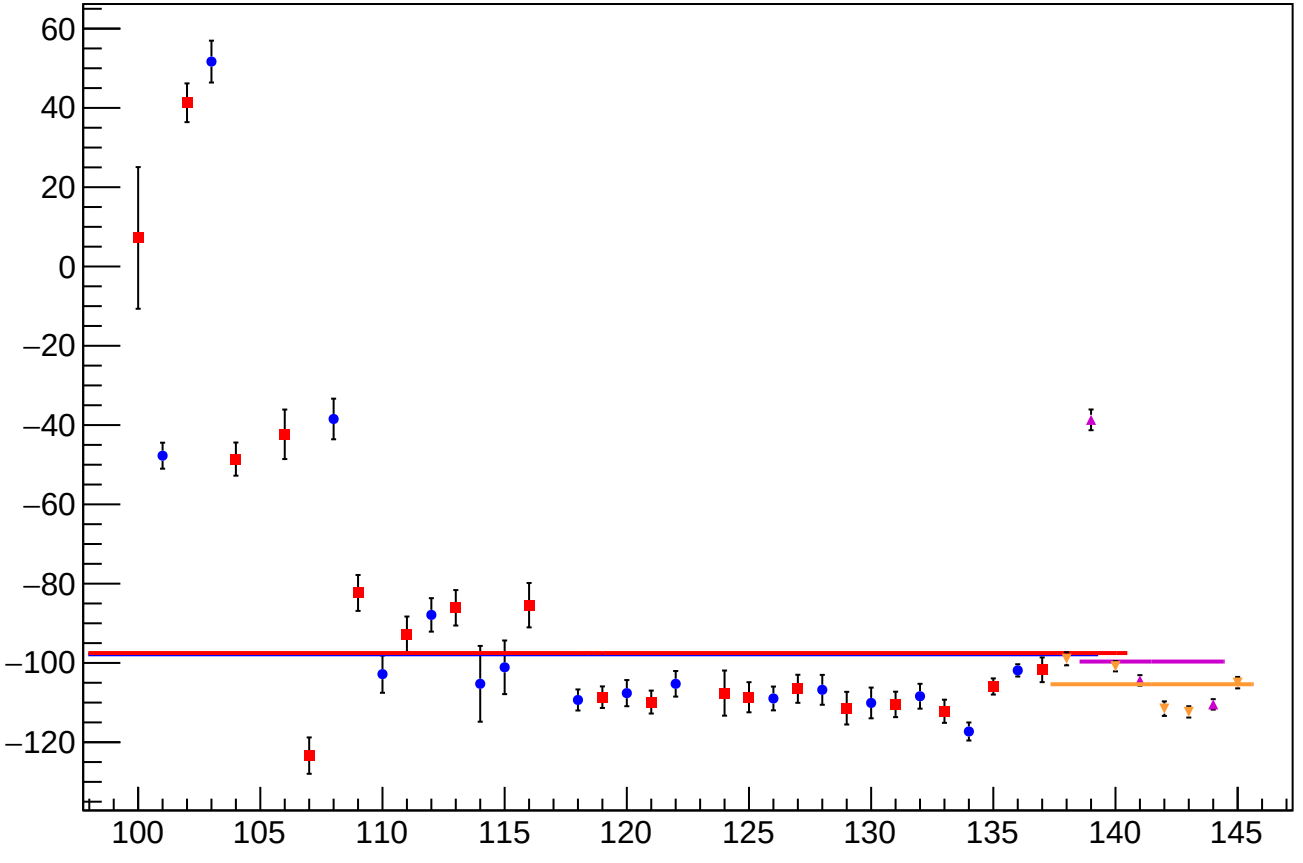
Right: -122.388+/-0.548 $\chi^2$/NDF: 652.9/34

In: -115.670+/-0.578 $\chi^2$/NDF:485.6/18

Out: -110.058+/-0.537 $\chi^2$/NDF:863.7/23

All: -112.661+/-0.393 $\chi^2$/NDF: 1400.0/42

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: -105.375+/-0.669 $\chi^2$/NDF:62.6/4

Right Out: -97.504+/-0.843 $\chi^2$/NDF: 1236.4/18

Left In: -99.652+/-0.881 $\chi^2$/NDF:623.5/2

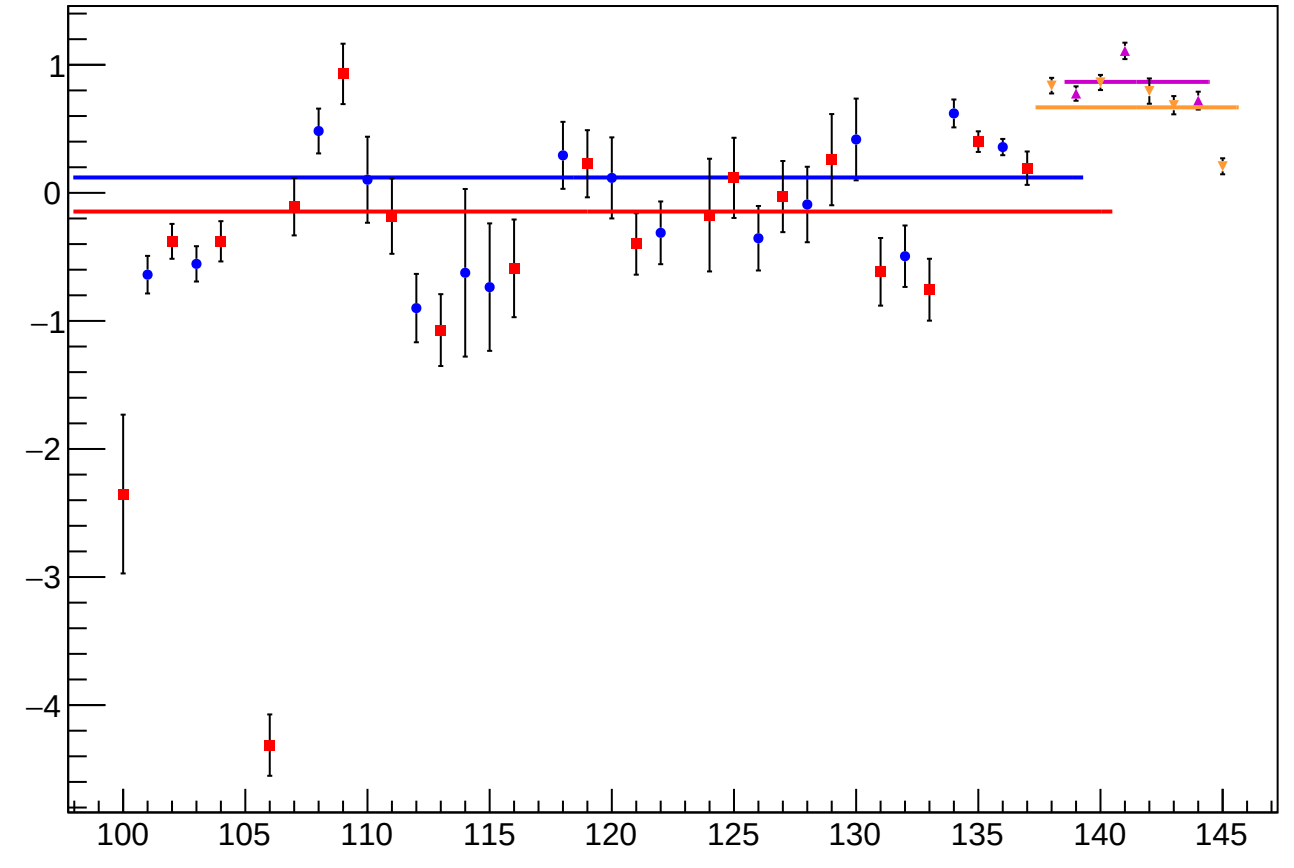
Left: -103.280+/-0.533 $\chi^2$/NDF: 712.9/7

Right: -97.668+/-0.578 $\chi^2$/NDF: 2567.3/34

In: -98.637+/-0.589 $\chi^2$/NDF:1956.7/18

Out: -102.331+/-0.524 $\chi^2$/NDF:1352.6/23

All: -100.699+/-0.392 $\chi^2$/NDF: 3331.3/42




Right In: 0.120+/-0.041 $\chi^2$/NDF: 123.9/15

Left Out: 0.668+/-0.030 $\chi^2$/NDF:74.3/4

Right Out: -0.146+/-0.045 $\chi^2$/NDF: 421.0/18

Left In: 0.867+/-0.036 $\chi^2$/NDF:21.3/2

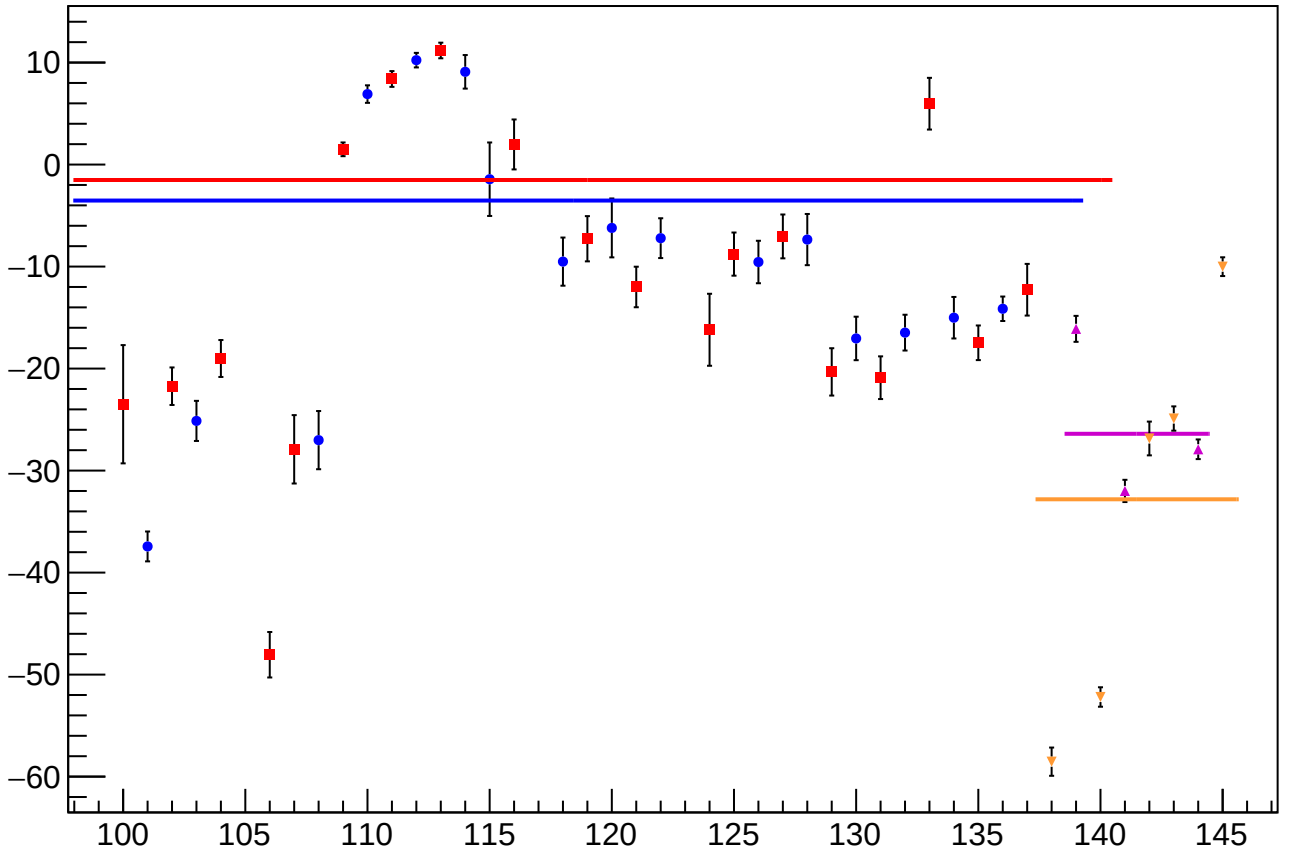
Left: 0.749+/-0.023 $\chi^2$/NDF: 113.5/7

Right: -0.002+/-0.030 $\chi^2$/NDF: 563.9/34

In: 0.542+/-0.027 $\chi^2$/NDF:330.5/18

Out: 0.416+/-0.025 $\chi^2$/NDF:722.4/23

All: 0.474+/-0.018 $\chi^2$/NDF: 1064.5/42




Right In: -3.527+/-0.377 $\chi^2$/NDF: 1529.1/15

Left Out: -32.815+/-0.508 $\chi^2$/NDF:1430.4/4

Right Out: -1.513+/-0.338 $\chi^2$/NDF: 1524.7/18

Left In: -26.393+/-0.628 $\chi^2$/NDF:94.2/2

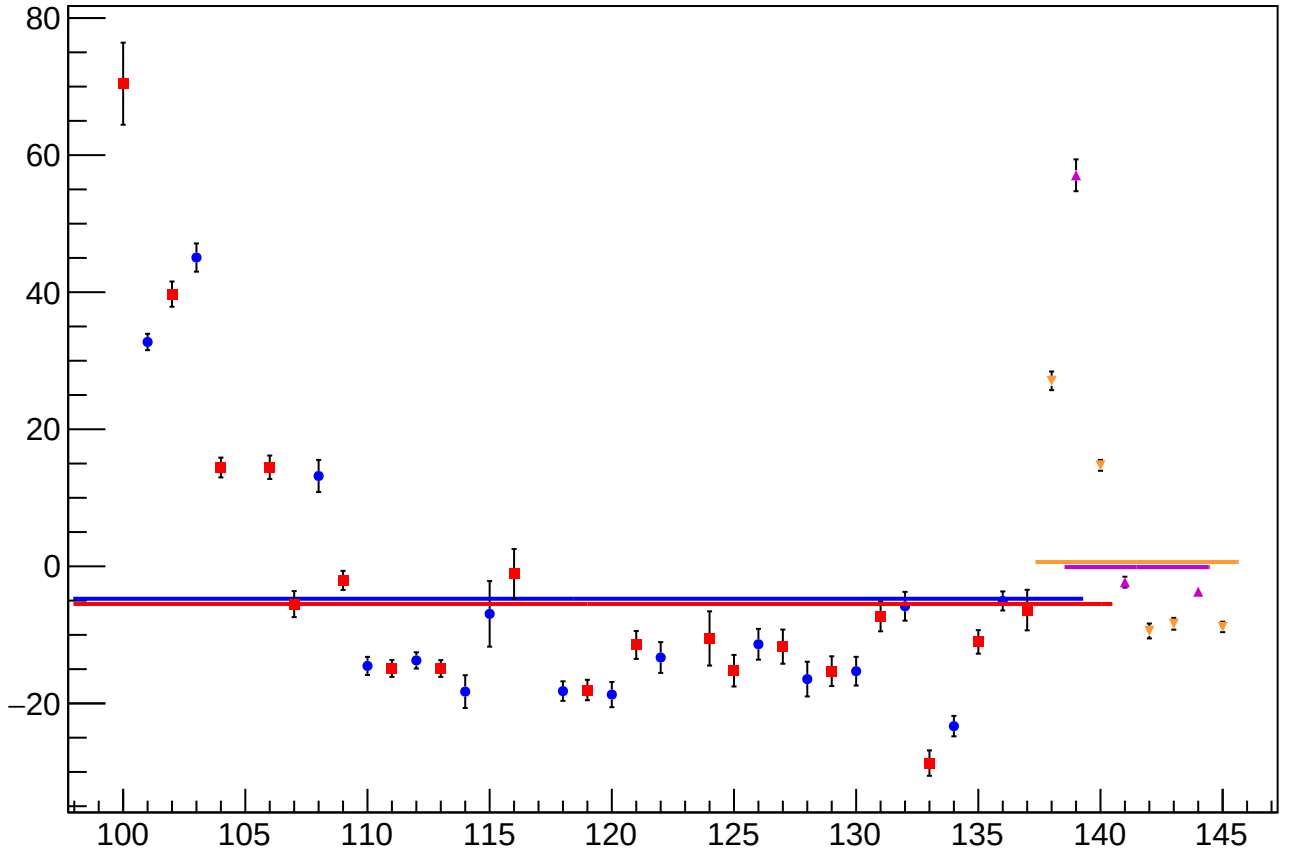
Left: -30.274+/-0.395 $\chi^2$/NDF: 1587.9/7

Right: -2.413+/-0.252 $\chi^2$/NDF: 3069.7/34

In: -9.581+/-0.323 $\chi^2$/NDF:2598.5/18

Out: -11.134+/-0.282 $\chi^2$/NDF:5584.2/23

All: -10.463+/-0.212 $\chi^2$/NDF: 8195.8/42




Right In: -4.729+/-0.431 $\chi^2$/NDF: 2148.0/15

Left Out: 0.629+/-0.406 $\chi^2$/NDF:1046.5/4

Right Out: -5.491+/-0.422 $\chi^2$/NDF: 1508.6/18

Left In: -0.102+/-0.517 $\chi^2$/NDF:638.0/2

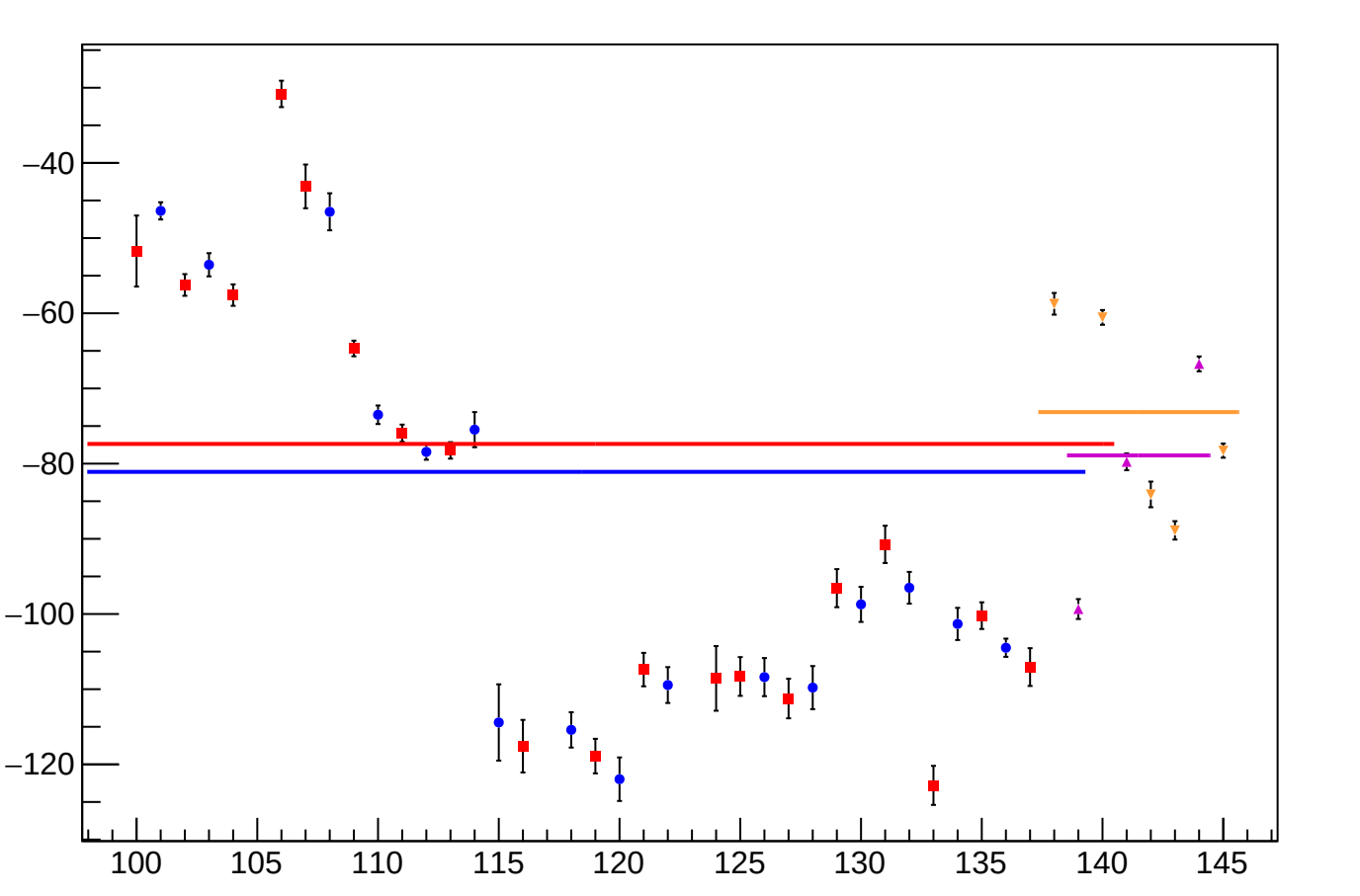
Left: 0.350+/-0.319 $\chi^2$/NDF: 1685.7/7

Right: -5.118+/-0.302 $\chi^2$/NDF: 3658.1/34

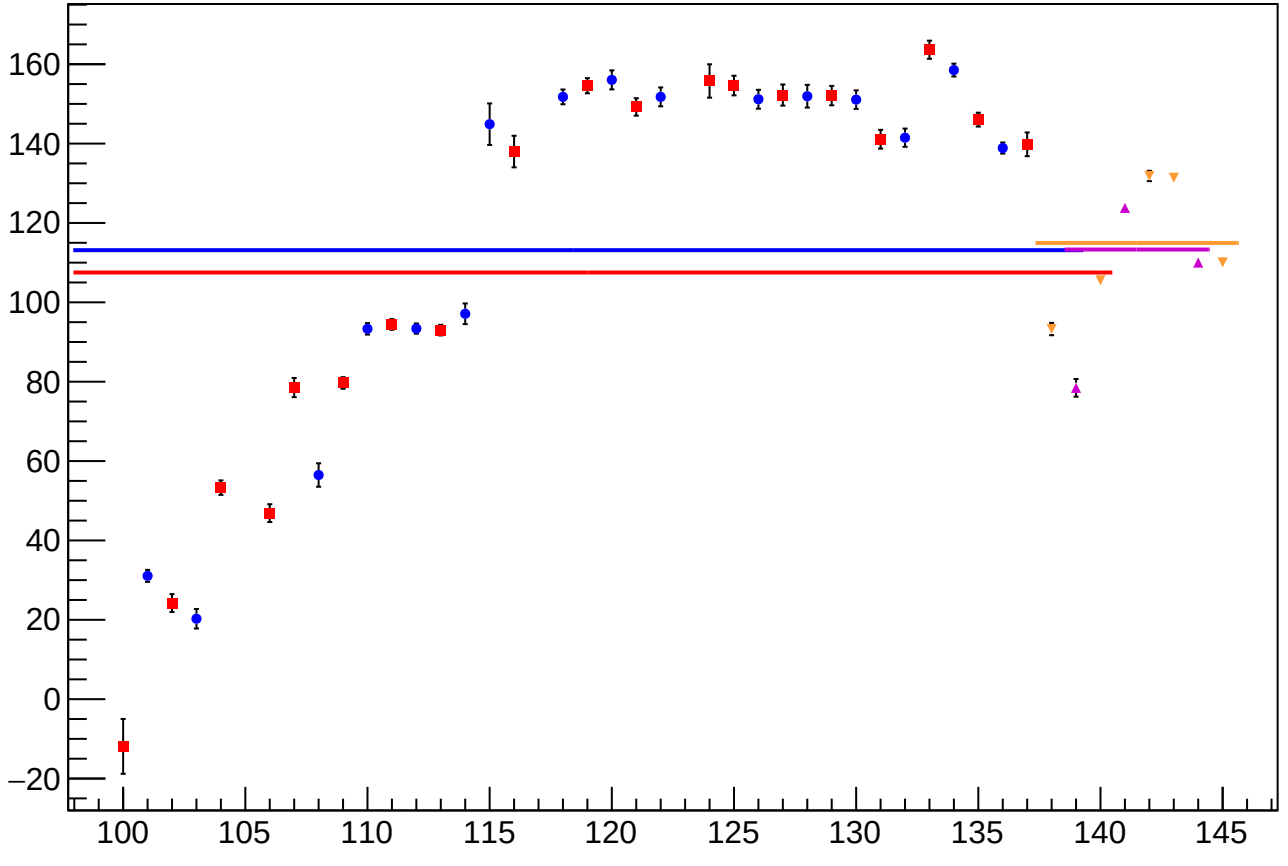
In: -2.833+/-0.331 $\chi^2$/NDF:2833.2/18

Out: -2.315+/-0.293 $\chi^2$/NDF:2664.1/23

All: -2.542+/-0.219 $\chi^2$/NDF: 5498.7/42


reg_asym_sam_48_avg_diff_bpm4eX_slope vs Slug, Sign Corrected
−40
−60
−80
−100
−120
100
105
110
115
120
125
130
135
140
145
Right In: -81.091+/-0.438 χ²/NDF: 2870.3/15
Left Out: -73.143+/-0.523 χ²/NDF:500.0/4
Right Out: -77.379+/-0.417 χ²/NDF: 3129.7/18
Left In: -78.906+/-0.648 χ²/NDF:388.9/2
Left: -75.420+/-0.407 χ²/NDF: 936.8/7
Right: -79.142+/-0.302 χ²/NDF: 6037.6/34
In: -80.405+/-0.363 χ²/NDF:3267.1/18
Out: -75.735+/-0.326 χ²/NDF:3669.7/23
All: -77.820+/-0.243 χ²/NDF: 7028.3/42

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: 114.965+/-0.477 $\chi^2$/NDF:752.8/4

Right Out: 107.515+/-0.479 $\chi^2$/NDF: 7544.0/18

Left In: 113.304+/-0.602 $\chi^2$/NDF:382.4/2

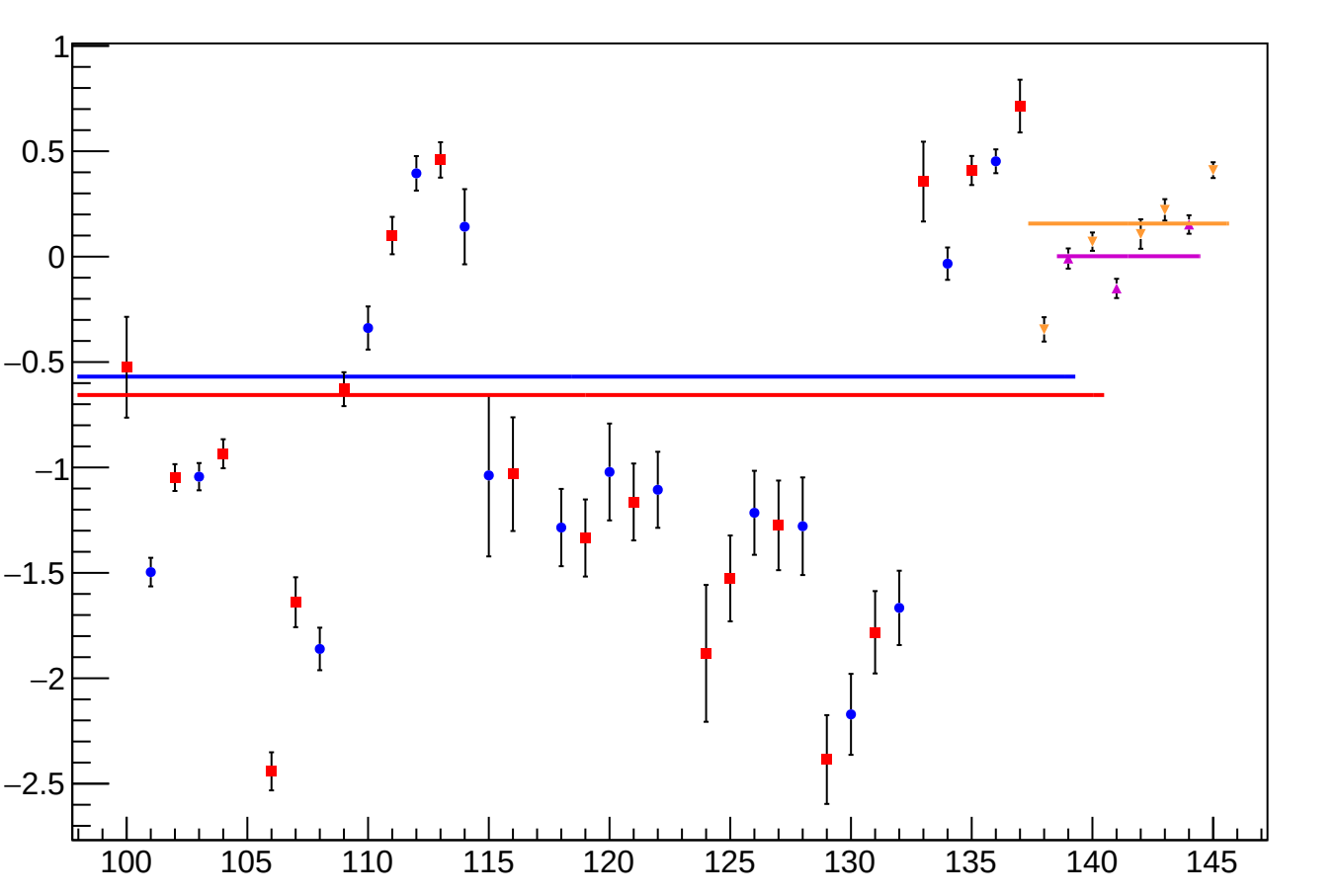
Left: 114.325+/-0.374 $\chi^2$/NDF: 1139.9/7

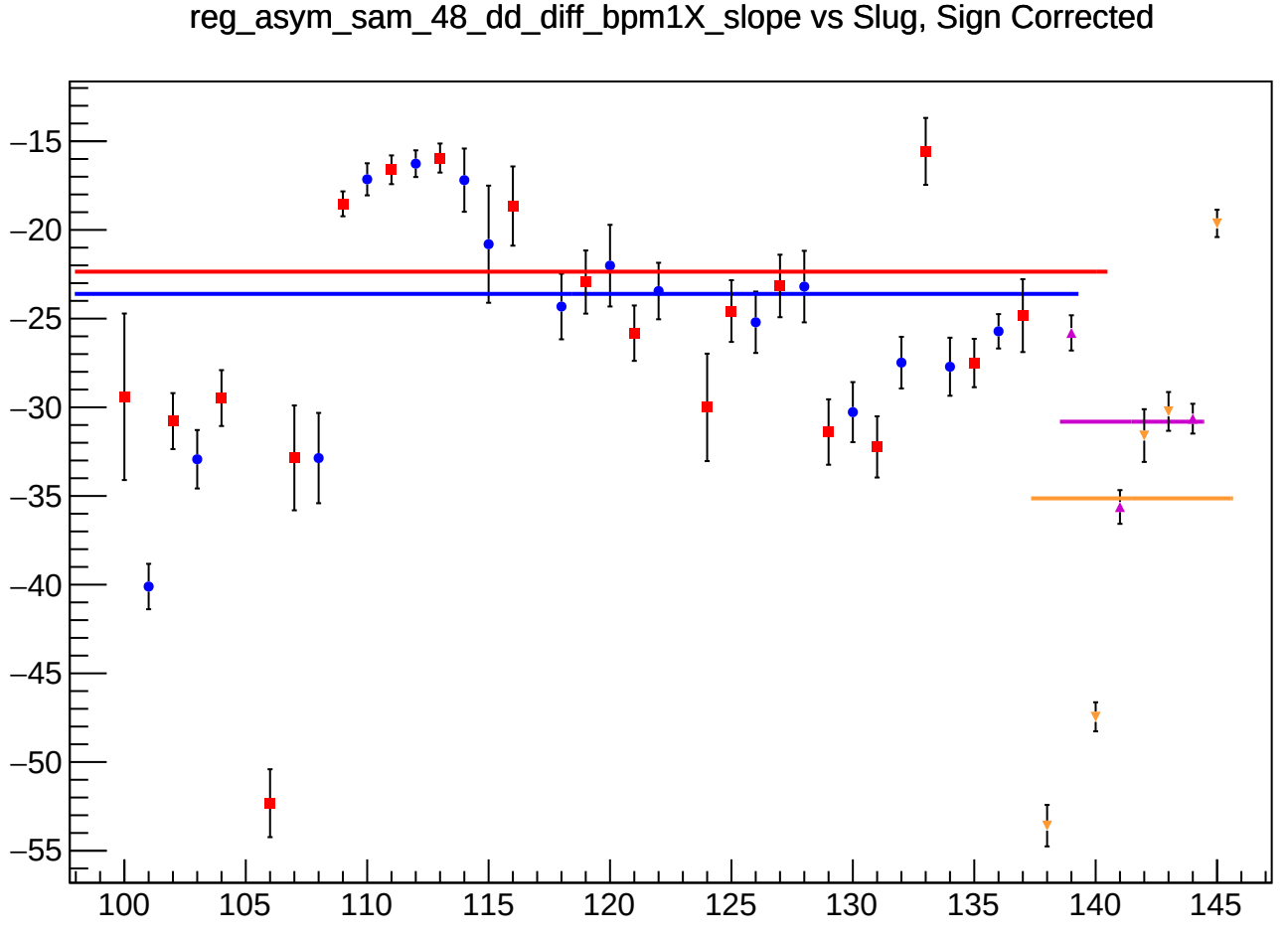
Right: 110.273+/-0.342 $\chi^2$/NDF: 15815.7/34

In: 113.207+/-0.380 $\chi^2$/NDF:8586.6/18

Out: 111.257+/-0.338 $\chi^2$/NDF:8418.1/23

All: 112.120+/-0.253 $\chi^2$/NDF: 17019.4/42


reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
100
105
110
115
120
125
130
135
140
145
Right In: -0.569+/-0.026 χ²/NDF: 1097.4/15
Left Out: 0.157+/-0.022 χ²/NDF:127.6/4
Right Out: -0.656+/-0.025 χ²/NDF: 1315.2/18
Left In: 0.002+/-0.026 χ²/NDF:23.0/2
Left: 0.095+/-0.017 χ²/NDF: 171.2/7
Right: -0.614+/-0.018 χ²/NDF: 2418.5/34
In: -0.290+/-0.018 χ²/NDF:1359.9/18
Out: -0.188+/-0.016 χ²/NDF:2042.0/23
All: -0.233+/-0.012 χ²/NDF: 3418.9/42




Right In: -23.607+/-0.348 $\chi^2$/NDF: 406.4/15

Left Out: -35.135+/-0.439 $\chi^2$/NDF:905.9/4

Right Out: -22.354+/-0.322 $\chi^2$/NDF: 551.7/18

Left In: -30.812+/-0.532 $\chi^2$/NDF:51.0/2

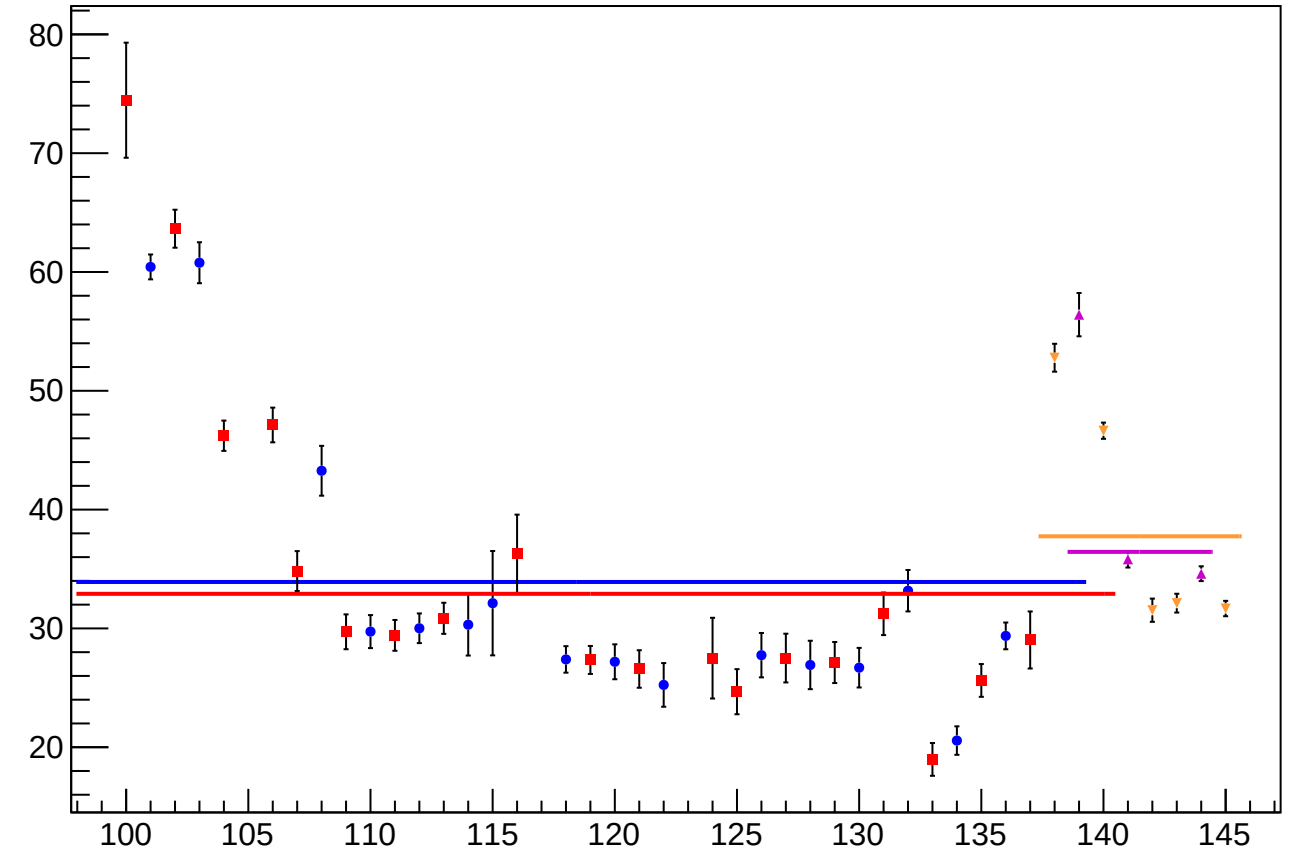
Left: -33.384+/-0.338 $\chi^2$/NDF: 996.3/7

Right: -22.931+/-0.236 $\chi^2$/NDF: 965.1/34

In: -25.770+/-0.291 $\chi^2$/NDF:585.9/18

Out: -26.825+/-0.259 $\chi^2$/NDF:2009.6/23

All: -26.358+/-0.194 $\chi^2$/NDF: 2602.8/42




Right In: 33.909+/-0.375 $\chi^2$/NDF: 1184.4/15

Left Out: 37.753+/-0.356 $\chi^2$/NDF:513.2/4

Right Out: 32.911+/-0.373 $\chi^2$/NDF: 875.0/18

Left In: 36.442+/-0.450 $\chi^2$/NDF:129.6/2

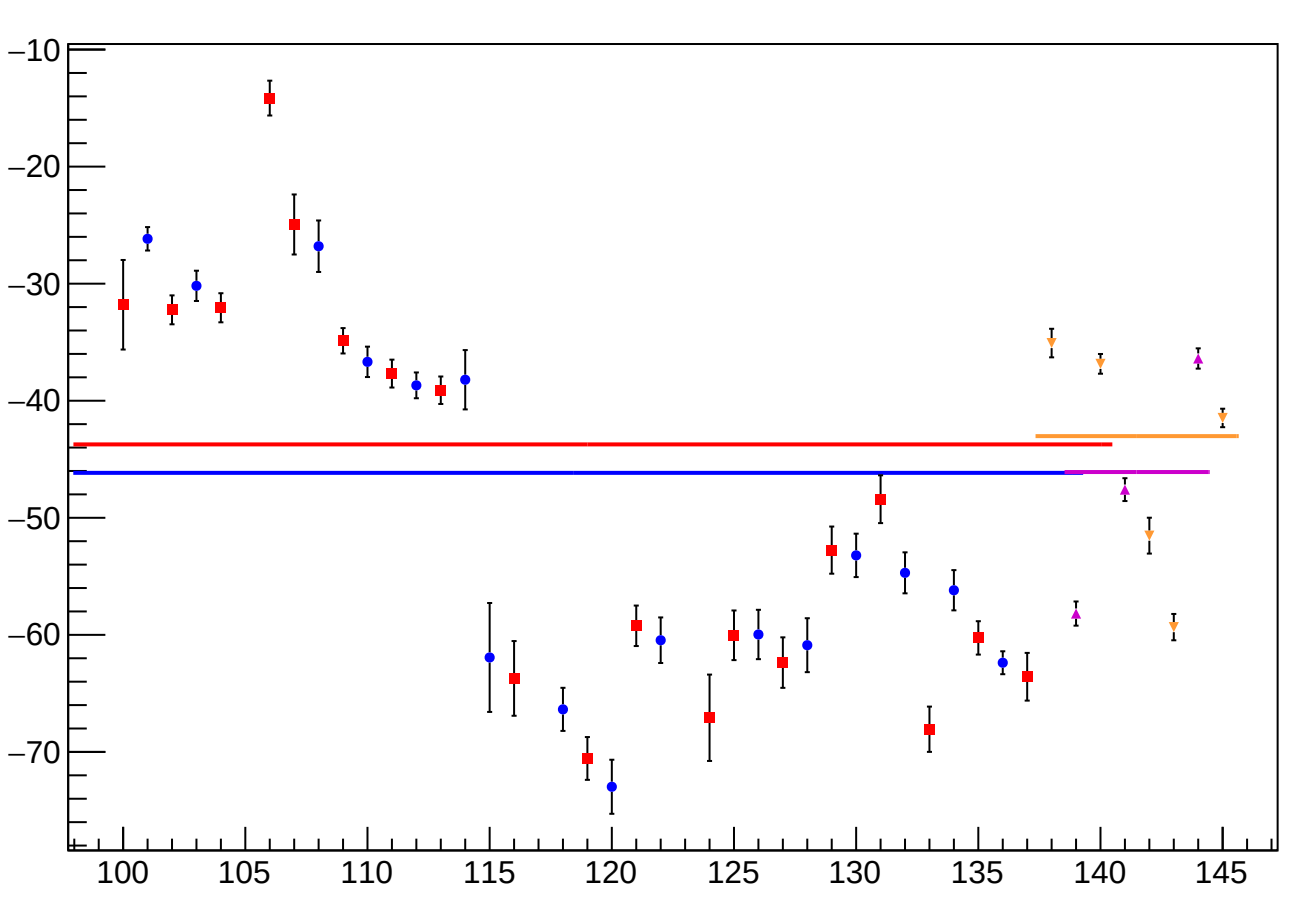
Left: 37.249+/-0.279 $\chi^2$/NDF: 648.0/7

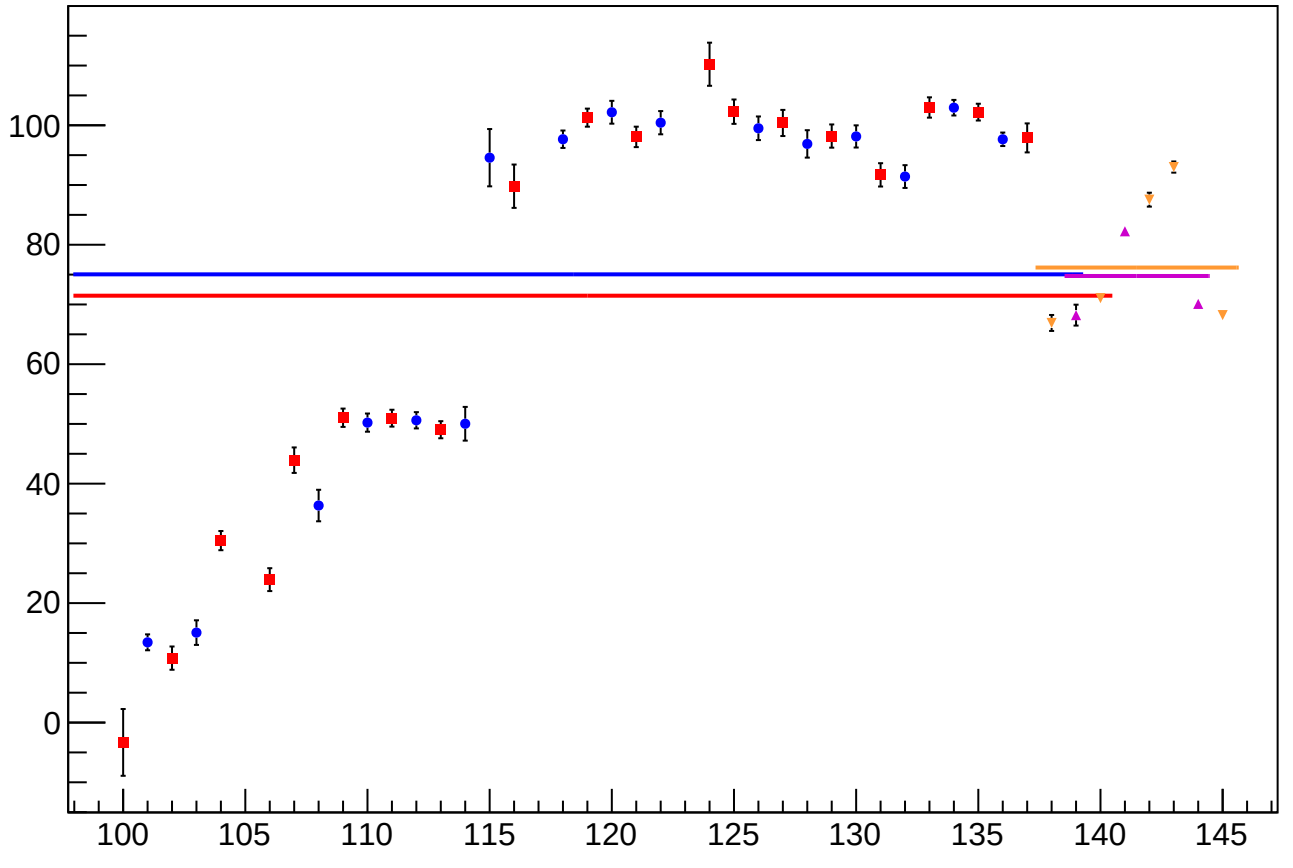
Right: 33.407+/-0.264 $\chi^2$/NDF: 2062.9/34

In: 34.949+/-0.288 $\chi^2$/NDF:1332.7/18

Out: 35.445+/-0.257 $\chi^2$/NDF:1476.5/23

All: 35.225+/-0.192 $\chi^2$/NDF: 2810.8/42


reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
−10
−20
−30
−40
−50
−60
−70
100
105
110
115
120
125
130
135
140
145
Right In: -46.160+/-0.390 χ²/NDF: 1489.6/15
Left Out: -43.023+/-0.452 χ²/NDF:341.3/4
Right Out: -43.730+/-0.378 χ²/NDF: 1663.4/18
Left In: -46.091+/-0.549 χ²/NDF:264.9/2
Left: -44.262+/-0.349 χ²/NDF: 624.8/7
Right: -44.909+/-0.271 χ²/NDF: 3173.0/34
In: -46.137+/-0.318 χ²/NDF:1754.6/18
Out: -43.439+/-0.290 χ²/NDF:2006.1/23
All: -44.665+/-0.214 χ²/NDF: 3800.0/42




Right In: 75.042+/-0.427 $\chi^2$/NDF: 5828.3/15

Left Out: 76.182+/-0.416 $\chi^2$/NDF:621.8/4

Right Out: 71.468+/-0.426 $\chi^2$/NDF: 5628.2/18

Left In: 74.768+/-0.522 $\chi^2$/NDF:137.1/2

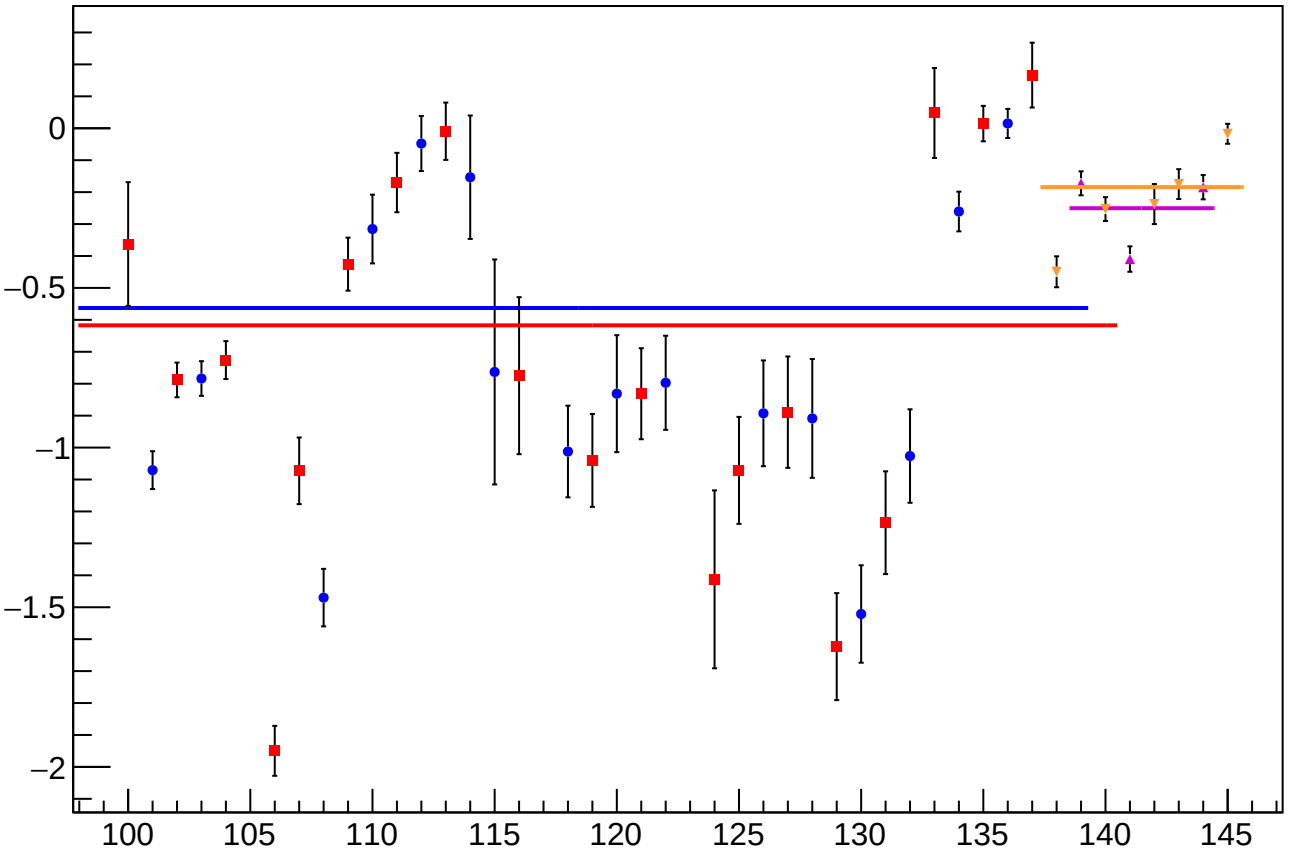
Left: 75.632+/-0.325 $\chi^2$/NDF: 763.4/7

Right: 73.248+/-0.302 $\chi^2$/NDF: 11491.6/34

In: 74.932+/-0.331 $\chi^2$/NDF:5965.6/18

Out: 73.877+/-0.298 $\chi^2$/NDF:6312.7/23

All: 74.350+/-0.221 $\chi^2$/NDF: 12283.9/42




Right In: -0.563+/-0.022 $\chi^2$/NDF: 493.0/15

Left Out: -0.184+/-0.019 $\chi^2$/NDF:62.8/4

Right Out: -0.617+/-0.022 $\chi^2$/NDF: 690.0/18

Left In: -0.250+/-0.022 $\chi^2$/NDF:23.3/2

Left: -0.212+/-0.014 $\chi^2$/NDF: 91.3/7

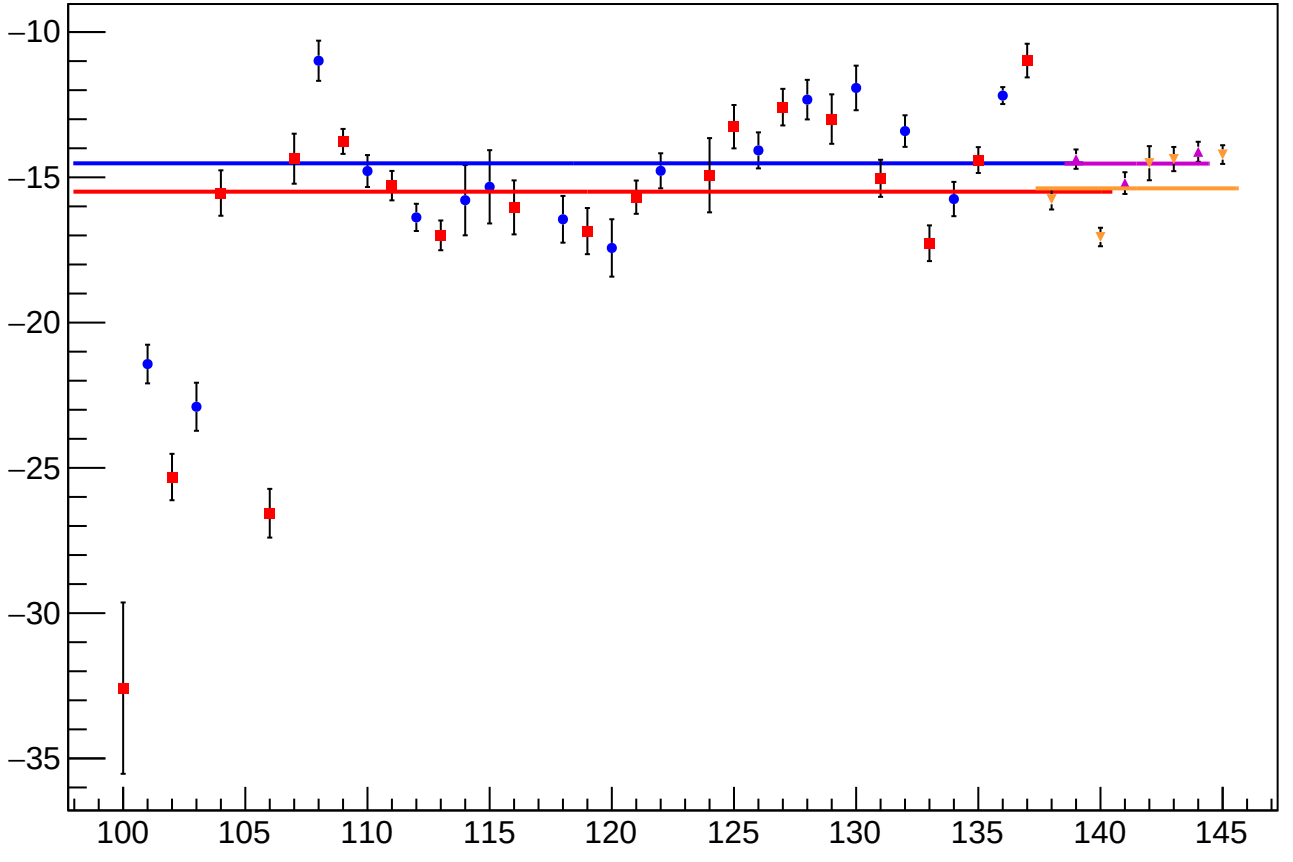
Right: -0.590+/-0.016 $\chi^2$/NDF: 1186.0/34

In: -0.406+/-0.016 $\chi^2$/NDF:615.3/18

Out: -0.363+/-0.014 $\chi^2$/NDF:976.2/23

All: -0.383+/-0.011 $\chi^2$/NDF: 1595.6/42

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -14.518+/-0.149 $\chi^2$/NDF: 363.3/15

Left Out: -15.380+/-0.166 $\chi^2$/NDF:50.0/4

Right Out: -15.494+/-0.150 $\chi^2$/NDF: 503.8/18

Left In: -14.527+/-0.202 $\chi^2$/NDF:4.8/2

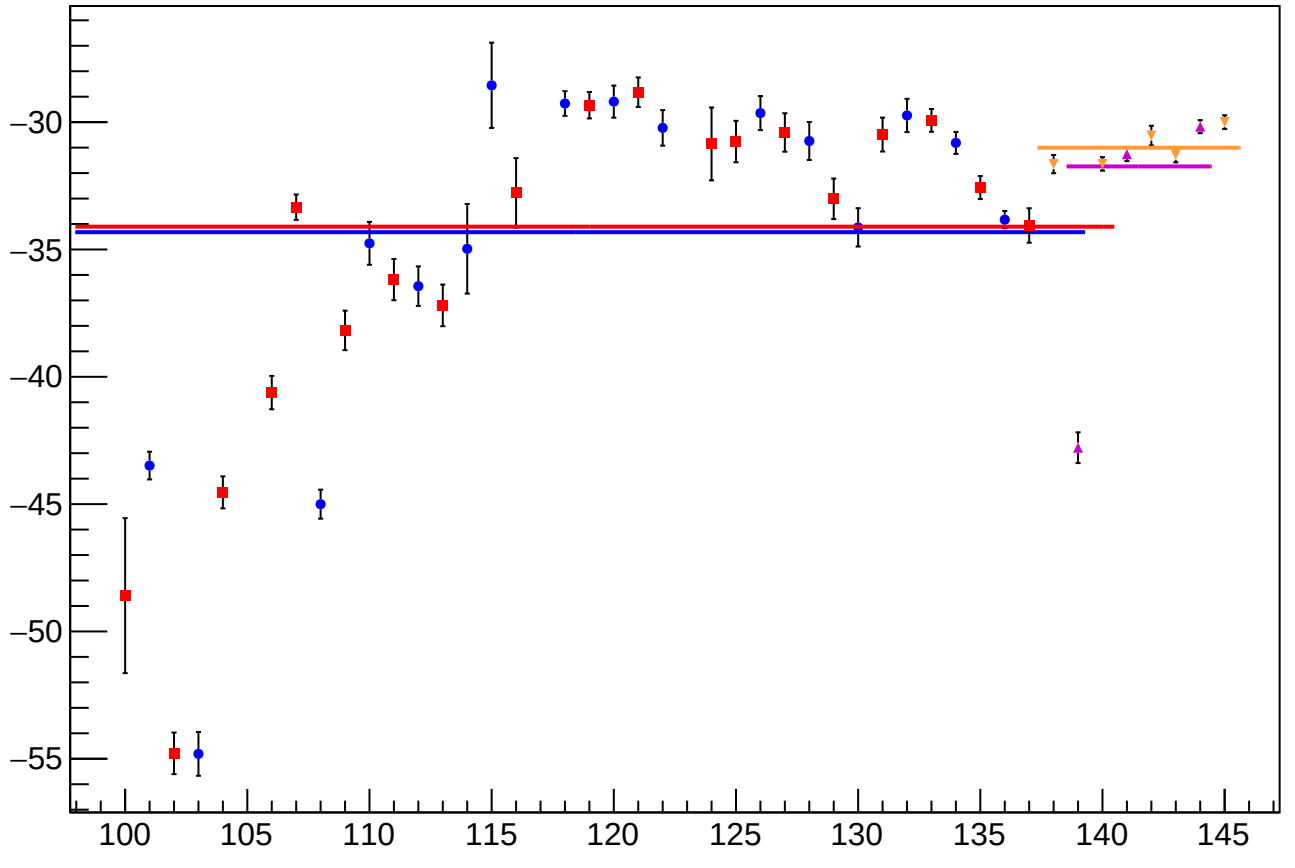
Left: -15.035+/-0.128 $\chi^2$/NDF: 65.4/7

Right: -15.004+/-0.106 $\chi^2$/NDF: 888.5/34

In: -14.521+/-0.120 $\chi^2$/NDF:368.2/18

Out: -15.443+/-0.111 $\chi^2$/NDF:554.1/23

All: -15.017+/-0.082 $\chi^2$/NDF: 953.9/42




Right In: -34.321+/-0.153 $\chi^2$/NDF: 1620.5/15

Left Out: -31.004+/-0.137 $\chi^2$/NDF:25.2/4

Right Out: -34.104+/-0.154 $\chi^2$/NDF: 1434.8/18

Left In: -31.738+/-0.179 $\chi^2$/NDF:374.5/2

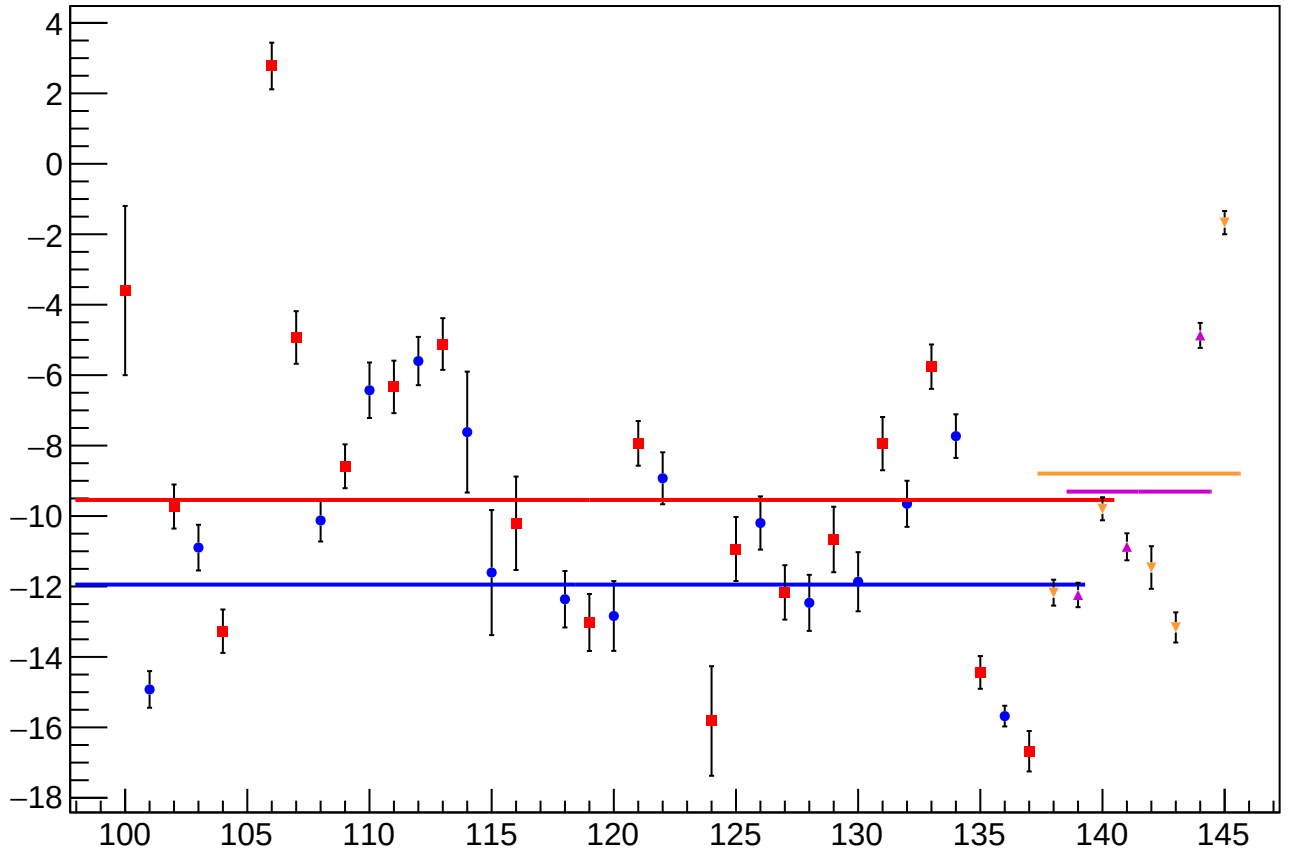
Left: -31.275+/-0.109 $\chi^2$/NDF: 410.3/7

Right: -34.213+/-0.109 $\chi^2$/NDF: 3056.3/34

In: -33.226+/-0.116 $\chi^2$/NDF:2115.4/18

Out: -32.369+/-0.102 $\chi^2$/NDF:1686.3/23

All: -32.743+/-0.077 $\chi^2$/NDF: 3832.3/42




Right In: -11.946+/-0.160 $\chi^2$/NDF: 430.0/15

Left Out: -8.795+/-0.171 $\chi^2$/NDF:683.2/4

Right Out: -9.544+/-0.165 $\chi^2$/NDF: 847.1/18

Left In: -9.306+/-0.208 $\chi^2$/NDF:244.2/2

Left: -9.001+/-0.132 $\chi^2$/NDF: 931.0/7

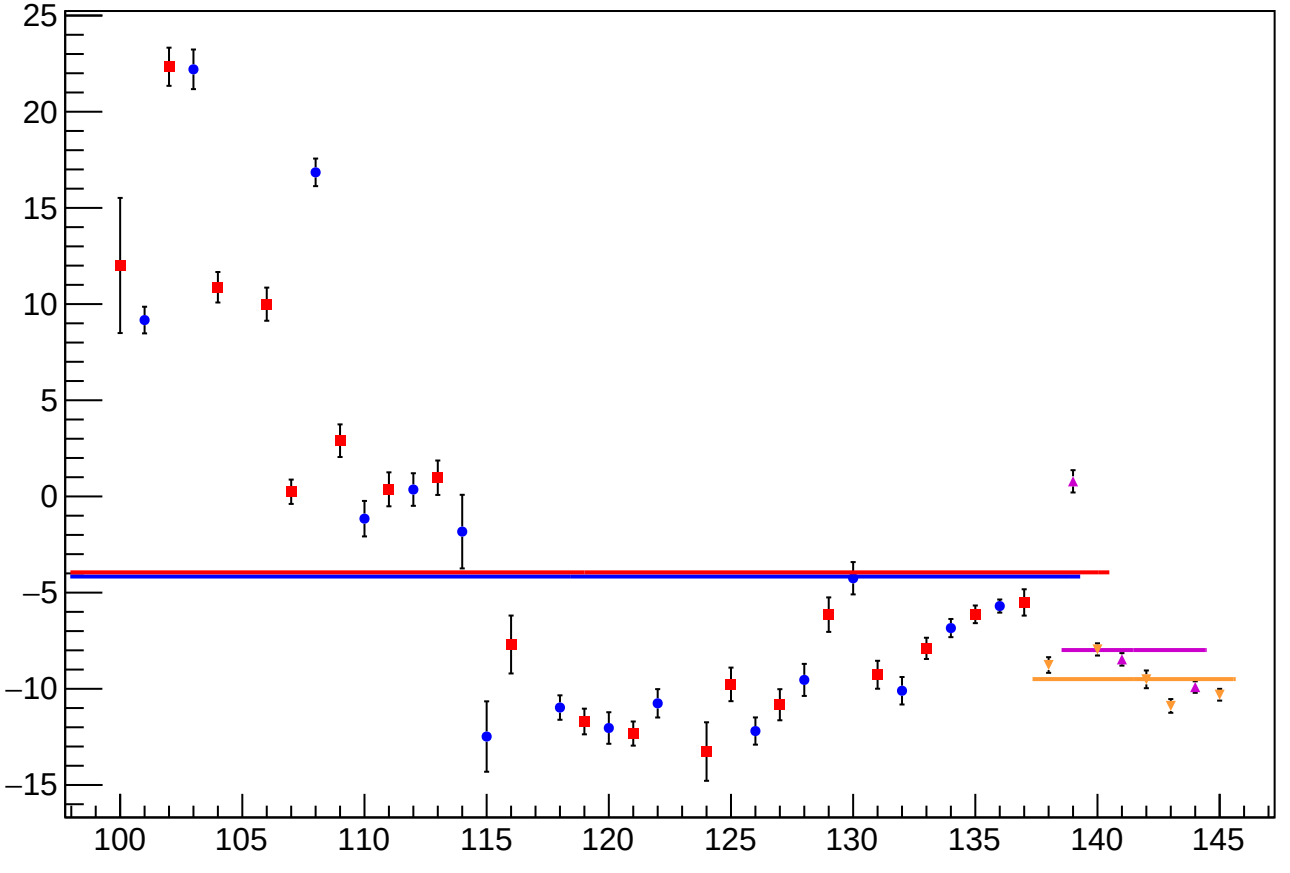
Right: -10.782+/-0.115 $\chi^2$/NDF: 1386.2/34

In: -10.965+/-0.127 $\chi^2$/NDF:775.2/18

Out: -9.183+/-0.119 $\chi^2$/NDF:1540.2/23

All: -10.016+/-0.087 $\chi^2$/NDF: 2420.5/42

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -4.163+/-0.172 $\chi^2$/NDF: 2525.0/15

Left Out: -9.495+/-0.160 $\chi^2$/NDF:49.0/4

Right Out: -3.947+/-0.176 $\chi^2$/NDF: 2110.2/18

Left In: -7.985+/-0.206 $\chi^2$/NDF:272.4/2

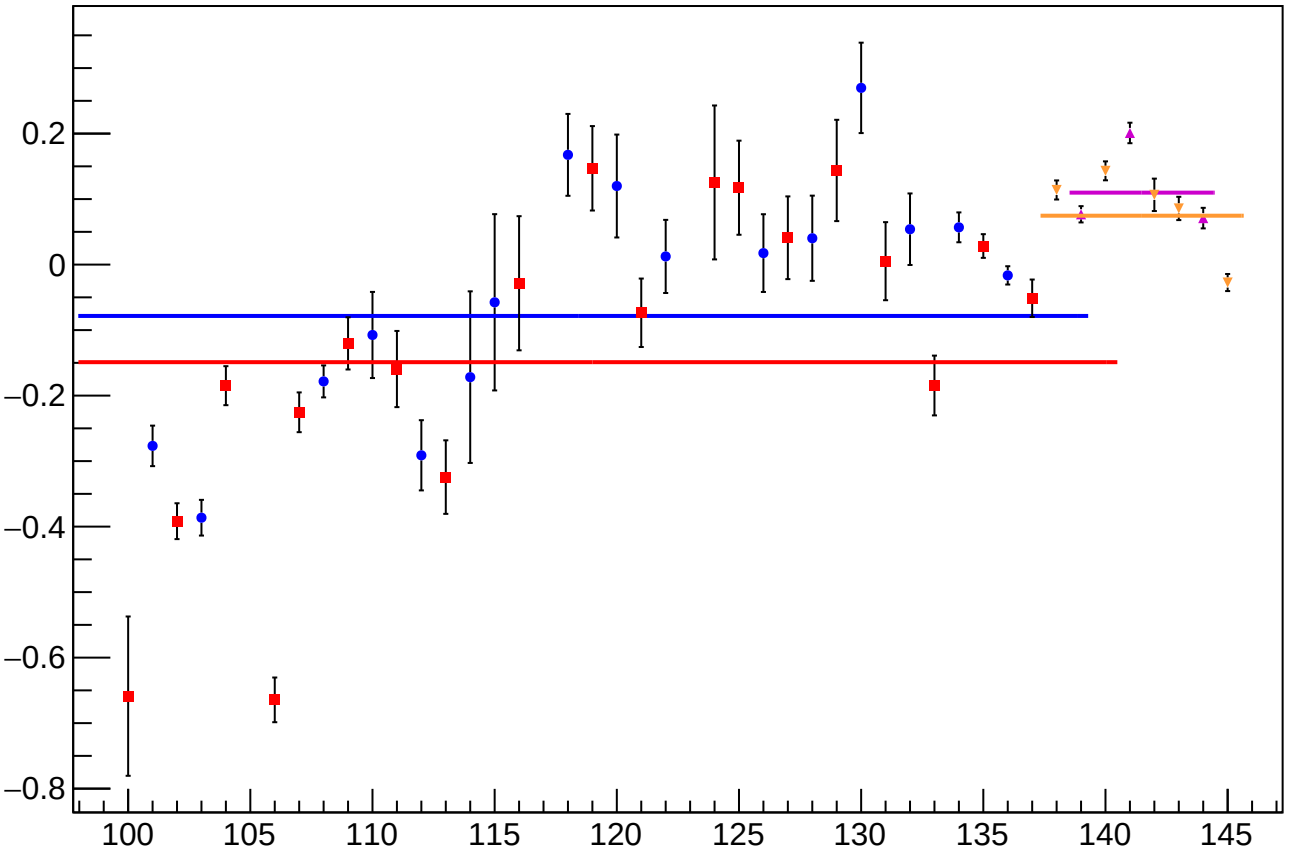
Left: -8.927+/-0.126 $\chi^2$/NDF: 355.0/7

Right: -4.057+/-0.123 $\chi^2$/NDF: 4636.0/34

In: -5.734+/-0.132 $\chi^2$/NDF:3000.6/18

Out: -6.987+/-0.118 $\chi^2$/NDF:2703.6/23

All: -6.428+/-0.088 $\chi^2$/NDF: 5754.1/42




Right In: -0.078+/-0.009 $\chi^2$/NDF: 318.8/15

Left Out: 0.075+/-0.007 $\chi^2$/NDF:93.0/4

Right Out: -0.149+/-0.009 $\chi^2$/NDF: 524.8/18

Left In: 0.110+/-0.008 $\chi^2$/NDF:47.1/2

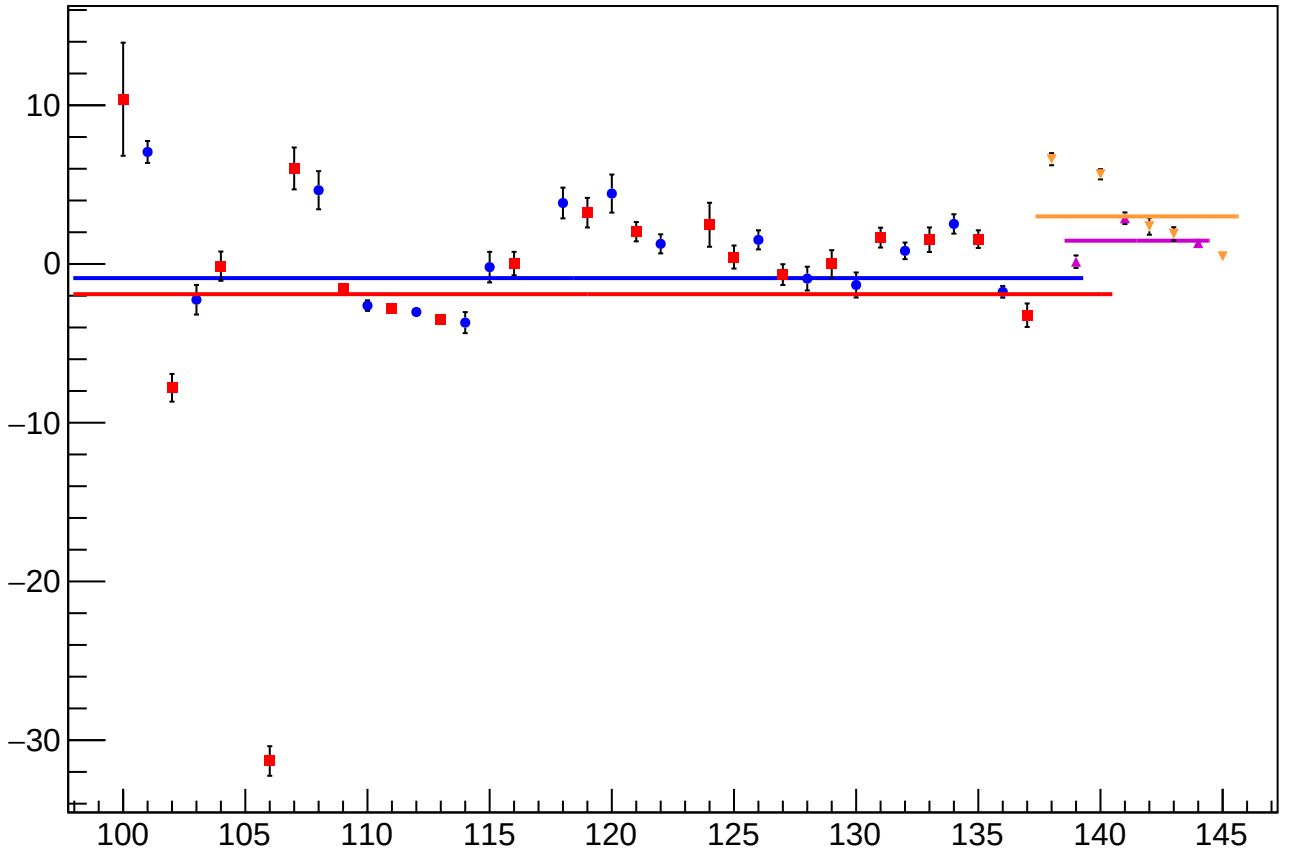
Left: 0.089+/-0.005 $\chi^2$/NDF: 150.6/7

Right: -0.112+/-0.006 $\chi^2$/NDF: 875.6/34

In: 0.019+/-0.006 $\chi^2$/NDF:615.7/18

Out: -0.009+/-0.006 $\chi^2$/NDF:996.9/23

All: 0.004+/-0.004 $\chi^2$/NDF: 1624.8/42




Right In: -0.889+/-0.137 $\chi^2$/NDF: 380.3/15

Left Out: 2.998+/-0.154 $\chi^2$/NDF:270.8/4

Right Out: -1.903+/-0.128 $\chi^2$/NDF: 1331.8/18

Left In: 1.469+/-0.190 $\chi^2$/NDF:26.6/2

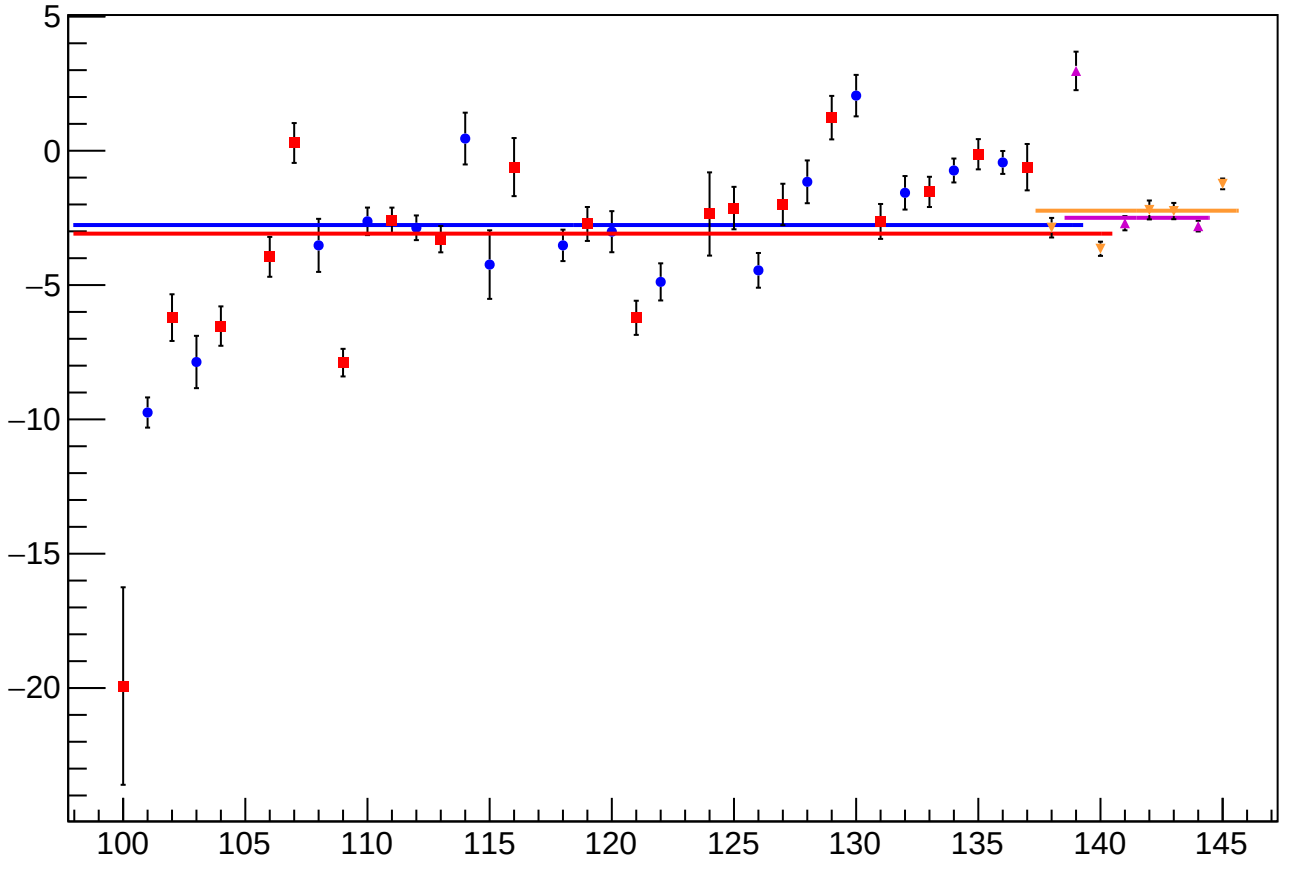
Left: 2.392+/-0.119 $\chi^2$/NDF: 336.6/7

Right: -1.428+/-0.094 $\chi^2$/NDF: 1741.3/34

In: -0.085+/-0.111 $\chi^2$/NDF:508.5/18

Out: 0.110+/-0.099 $\chi^2$/NDF:2201.4/23

All: 0.024+/-0.074 $\chi^2$/NDF: 2711.7/42




Right In: -2.766+/-0.156 $\chi^2$/NDF: 310.1/15

Left Out: -2.232+/-0.123 $\chi^2$/NDF:56.7/4

Right Out: -3.086+/-0.158 $\chi^2$/NDF: 272.5/18

Left In: -2.497+/-0.155 $\chi^2$/NDF:61.2/2

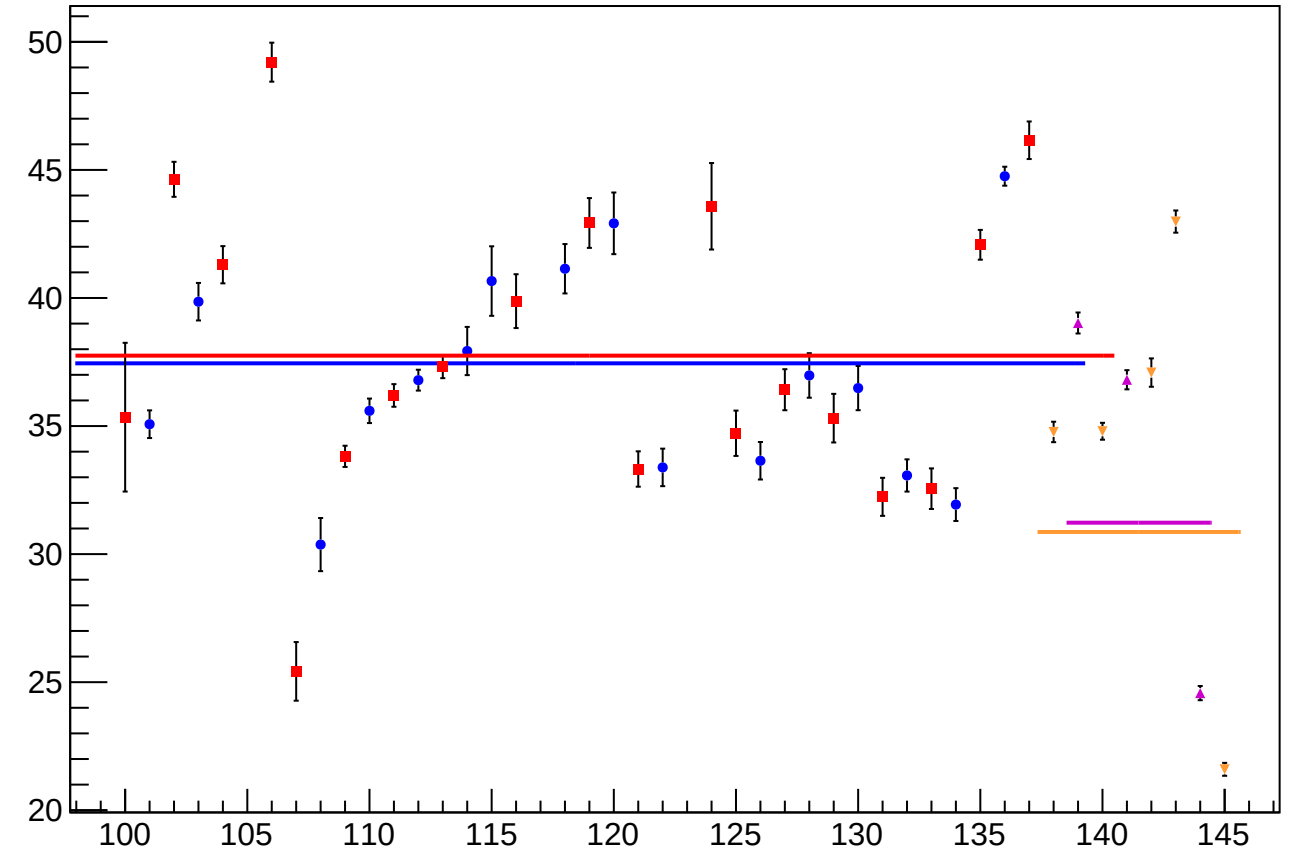
Left: -2.334+/-0.097 $\chi^2$/NDF: 119.7/7

Right: -2.925+/-0.111 $\chi^2$/NDF: 584.6/34

In: -2.631+/-0.110 $\chi^2$/NDF:372.8/18

Out: -2.556+/-0.097 $\chi^2$/NDF:347.4/23

All: -2.589+/-0.073 $\chi^2$/NDF: 720.5/42




Right In: 37.449+/-0.161 $\chi^2$/NDF: 706.9/15

Left Out: 30.865+/-0.159 $\chi^2$/NDF:2494.2/4

Right Out: 37.749+/-0.159 $\chi^2$/NDF: 963.6/18

Left In: 31.226+/-0.196 $\chi^2$/NDF:1158.0/2

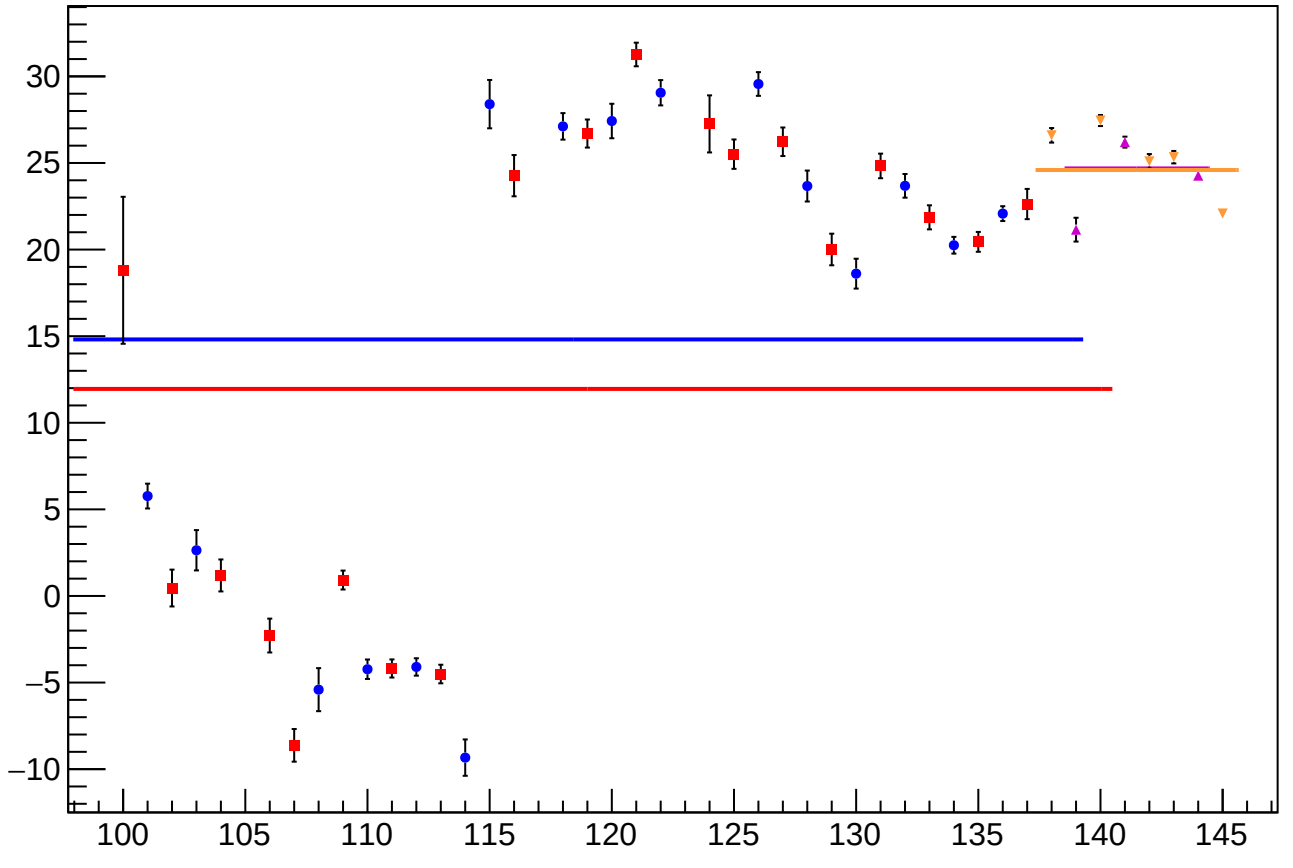
Left: 31.008+/-0.123 $\chi^2$/NDF: 3654.2/7

Right: 37.600+/-0.113 $\chi^2$/NDF: 1672.3/34

In: 34.946+/-0.124 $\chi^2$/NDF:2467.8/18

Out: 34.290+/-0.112 $\chi^2$/NDF:4394.8/23

All: 34.585+/-0.083 $\chi^2$/NDF: 6878.0/42




Right In: 14.812+/-0.174 $\chi^2$/NDF: 5686.4/15

Left Out: 24.594+/-0.144 $\chi^2$/NDF:229.2/4

Right Out: 11.955+/-0.177 $\chi^2$/NDF: 6105.5/18

Left In: 24.686+/-0.181 $\chi^2$/NDF:52.6/2

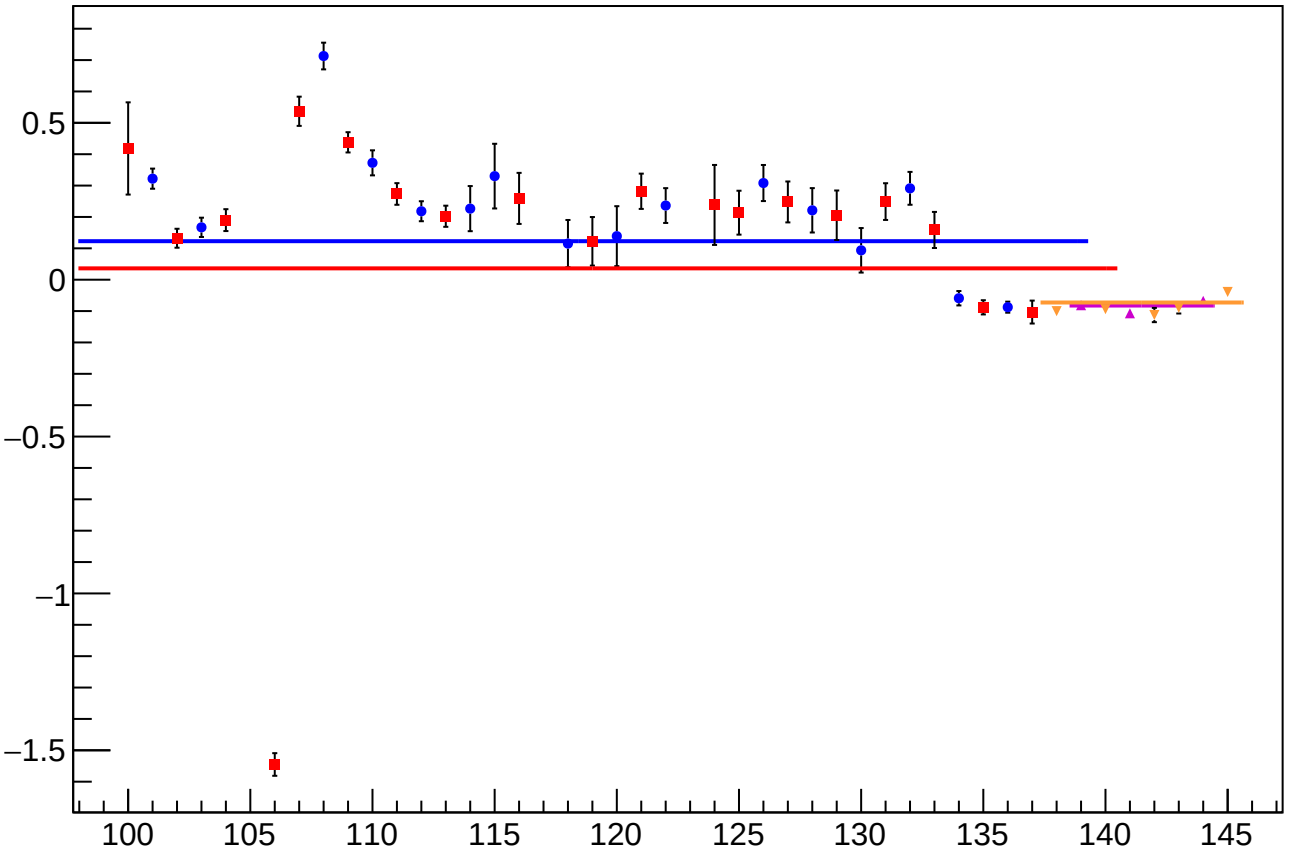
Left: 24.630+/-0.113 $\chi^2$/NDF: 282.0/7

Right: 13.408+/-0.124 $\chi^2$/NDF: 11924.5/34

In: 19.548+/-0.125 $\chi^2$/NDF:7285.8/18

Out: 19.537+/-0.112 $\chi^2$/NDF:9399.5/23

All: 19.542+/-0.083 $\chi^2$/NDF: 16685.3/42




Right In: 0.123+/-0.009 $\chi^2$/NDF: 520.0/15

Left Out: -0.073+/-0.007 $\chi^2$/NDF:20.3/4

Right Out: 0.036+/-0.010 $\chi^2$/NDF: 2414.7/18

Left In: -0.082+/-0.008 $\chi^2$/NDF:4.1/2

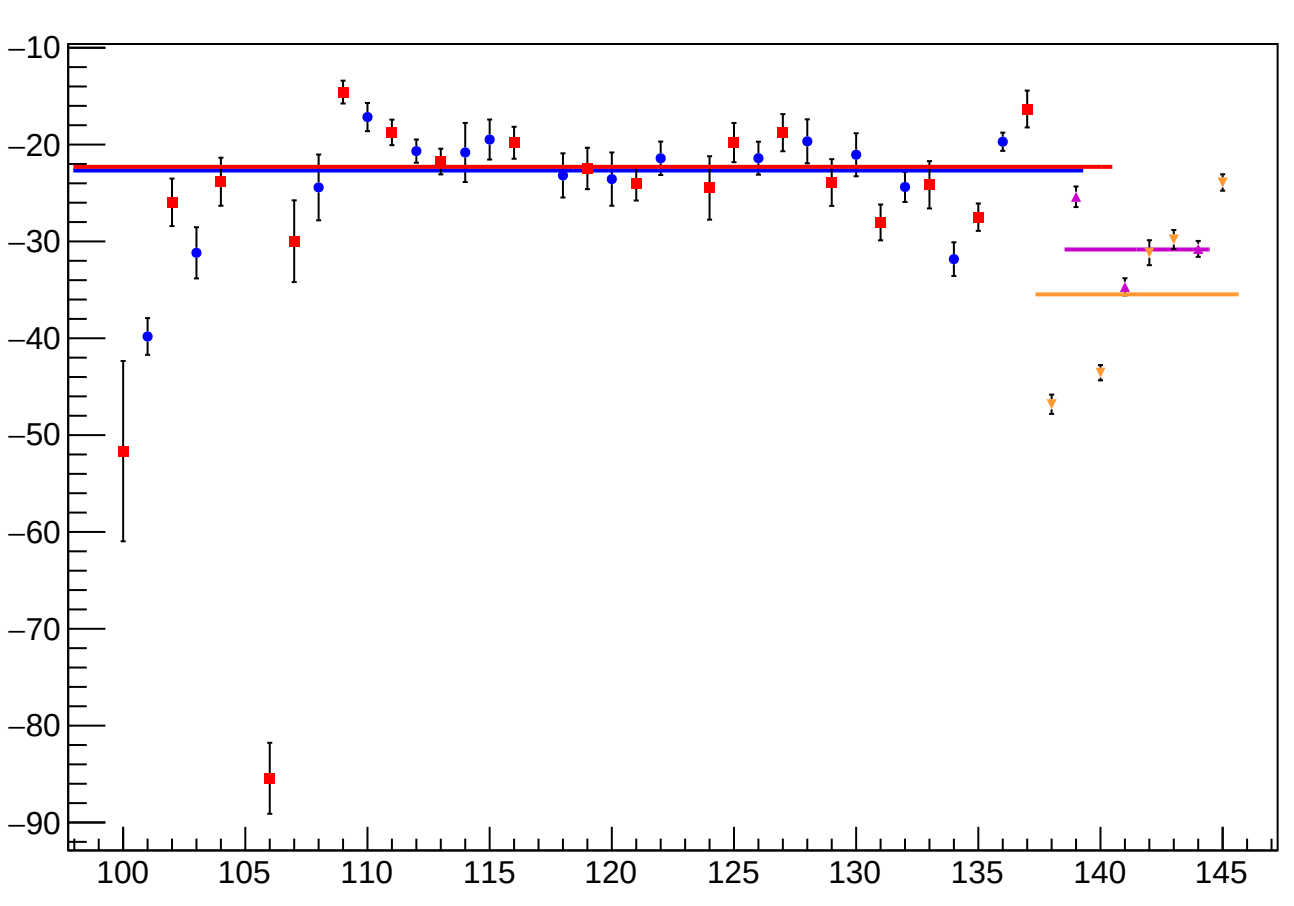
Left: -0.077+/-0.005 $\chi^2$/NDF: 25.2/7

Right: 0.081+/-0.007 $\chi^2$/NDF: 2975.5/34

In: 0.004+/-0.006 $\chi^2$/NDF:799.5/18

Out: -0.039+/-0.005 $\chi^2$/NDF:2520.7/23

All: -0.020+/-0.004 $\chi^2$/NDF: 3348.0/42




Right In: -22.675+/-0.435 $\chi^2$/NDF: 154.4/15

Left Out: -35.465+/-0.421 $\chi^2$/NDF:465.2/4

Right Out: -22.295+/-0.435 $\chi^2$/NDF: 405.5/18

Left In: -30.831+/-0.524 $\chi^2$/NDF:45.1/2

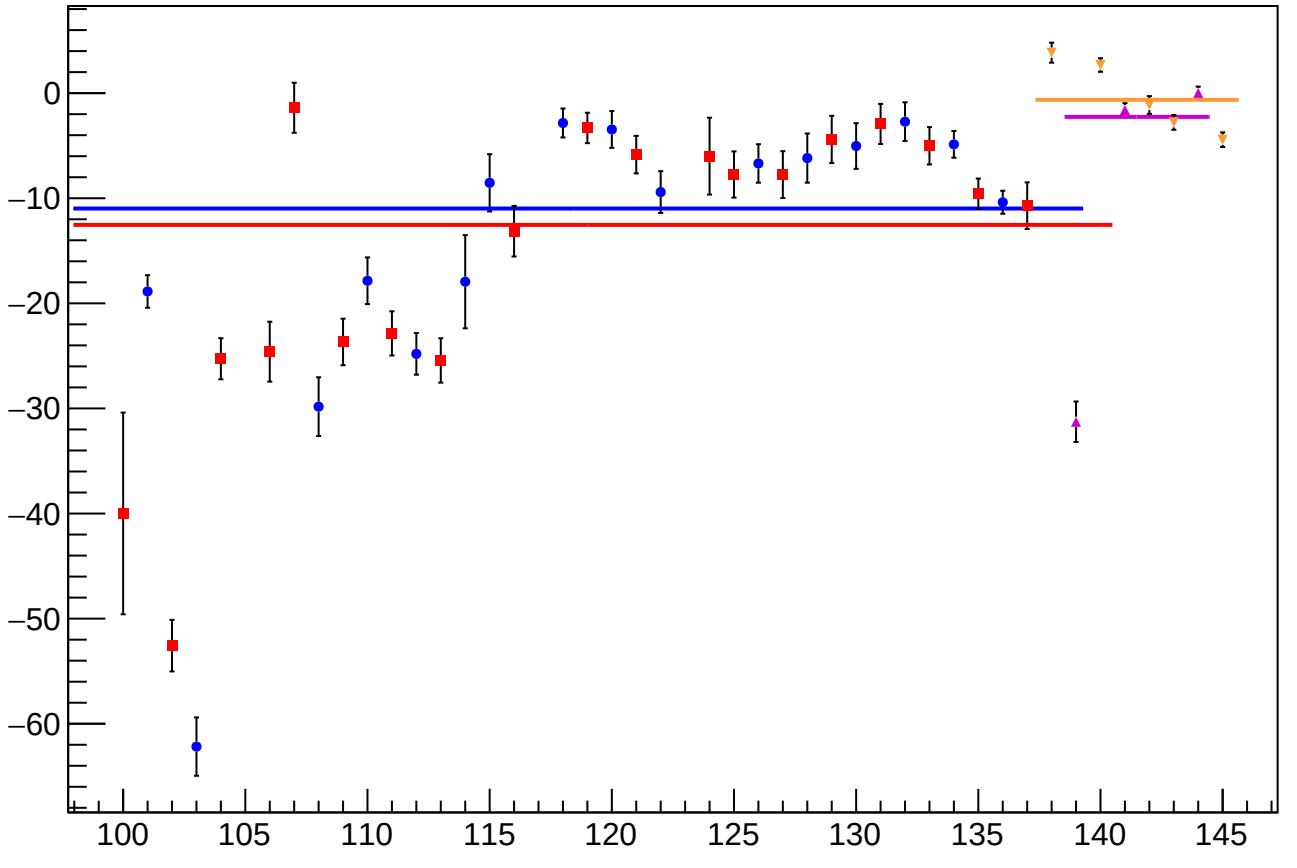
Left: -33.649+/-0.328 $\chi^2$/NDF: 557.9/7

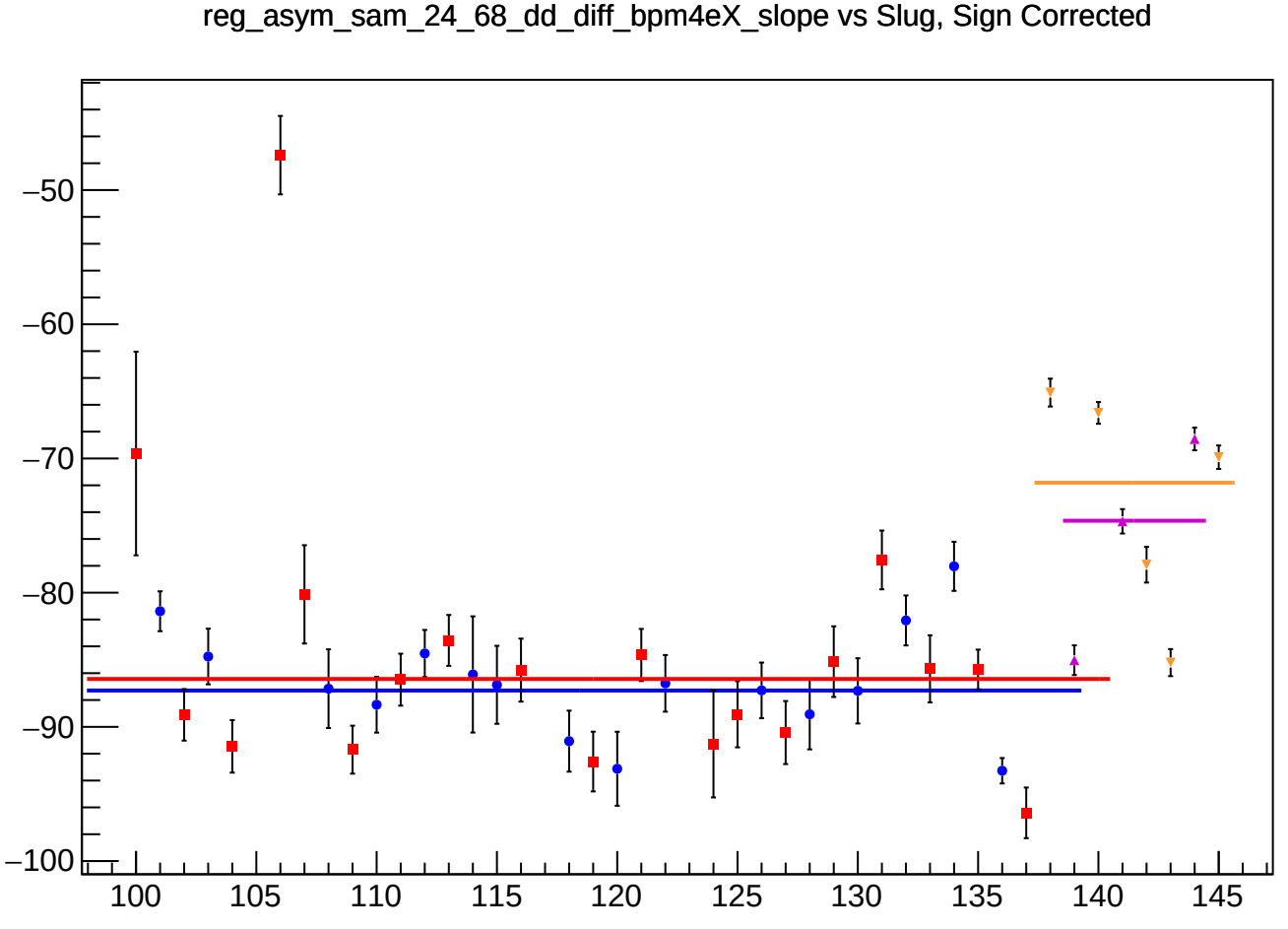
Right: -22.485+/-0.307 $\chi^2$/NDF: 560.3/34

In: -25.998+/-0.334 $\chi^2$/NDF:343.1/18

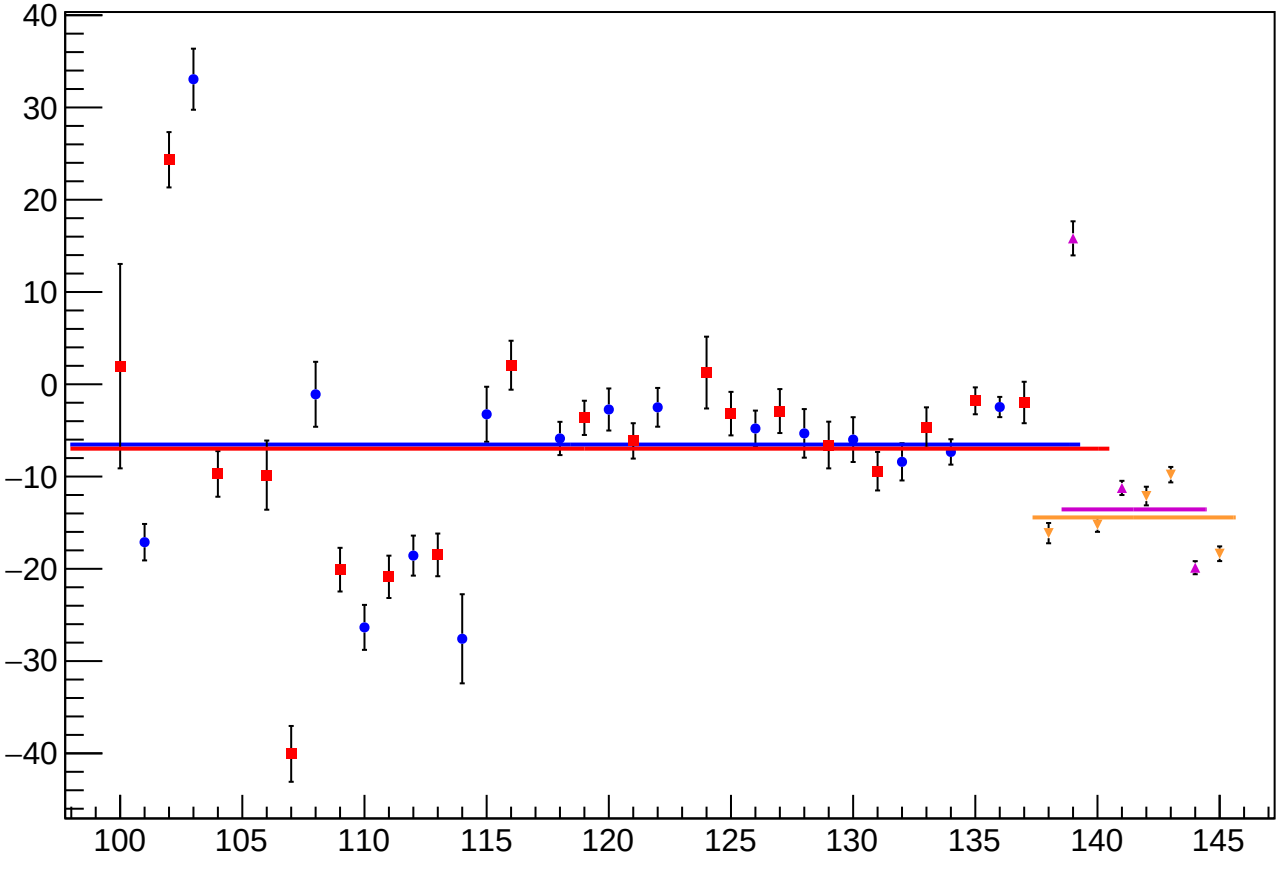
Out: -29.104+/-0.302 $\chi^2$/NDF:1344.2/23

All: -27.707+/-0.224 $\chi^2$/NDF: 1734.8/42


reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
0
−10
−20
−30
−40
−50
−60
100
105
110
115
120
125
130
135
140
145
Right In: -10.978+/-0.453 χ²/NDF: 587.3/15
Left Out: -0.635+/-0.334 χ²/NDF:87.6/4
Right Out: -12.533+/-0.481 χ²/NDF: 572.3/18
Left In: -2.258+/-0.430 χ²/NDF:242.2/2
Left: -1.247+/-0.264 χ²/NDF: 338.7/7
Right: -11.710+/-0.330 χ²/NDF: 1165.1/34
In: -6.385+/-0.312 χ²/NDF:1024.4/18
Out: -4.507+/-0.274 χ²/NDF:1072.5/23
All: -5.326+/-0.206 χ²/NDF: 2117.3/42


reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
−50
−60
−70
−80
−90
−100
100
105
110
115
120
125
130
135
140
145
Right In: -87.291+/-0.481 χ²/NDF: 101.2/15
Left Out: -71.806+/-0.434 χ²/NDF:285.8/4
Right Out: -86.431+/-0.506 χ²/NDF: 264.8/18
Left In: -74.639+/-0.540 χ²/NDF:140.1/2
Left: -72.916+/-0.338 χ²/NDF: 442.6/7
Right: -86.883+/-0.348 χ²/NDF: 367.6/34
In: -81.704+/-0.359 χ²/NDF:547.3/18
Out: -78.003+/-0.329 χ²/NDF:1032.2/23
All: -79.694+/-0.243 χ²/NDF: 1637.2/42

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: -14.431+/-0.394 $\chi^2$/NDF:63.7/4

Right Out: -6.979+/-0.542 $\chi^2$/NDF: 368.3/18

Left In: -13.561+/-0.502 $\chi^2$/NDF:341.3/2

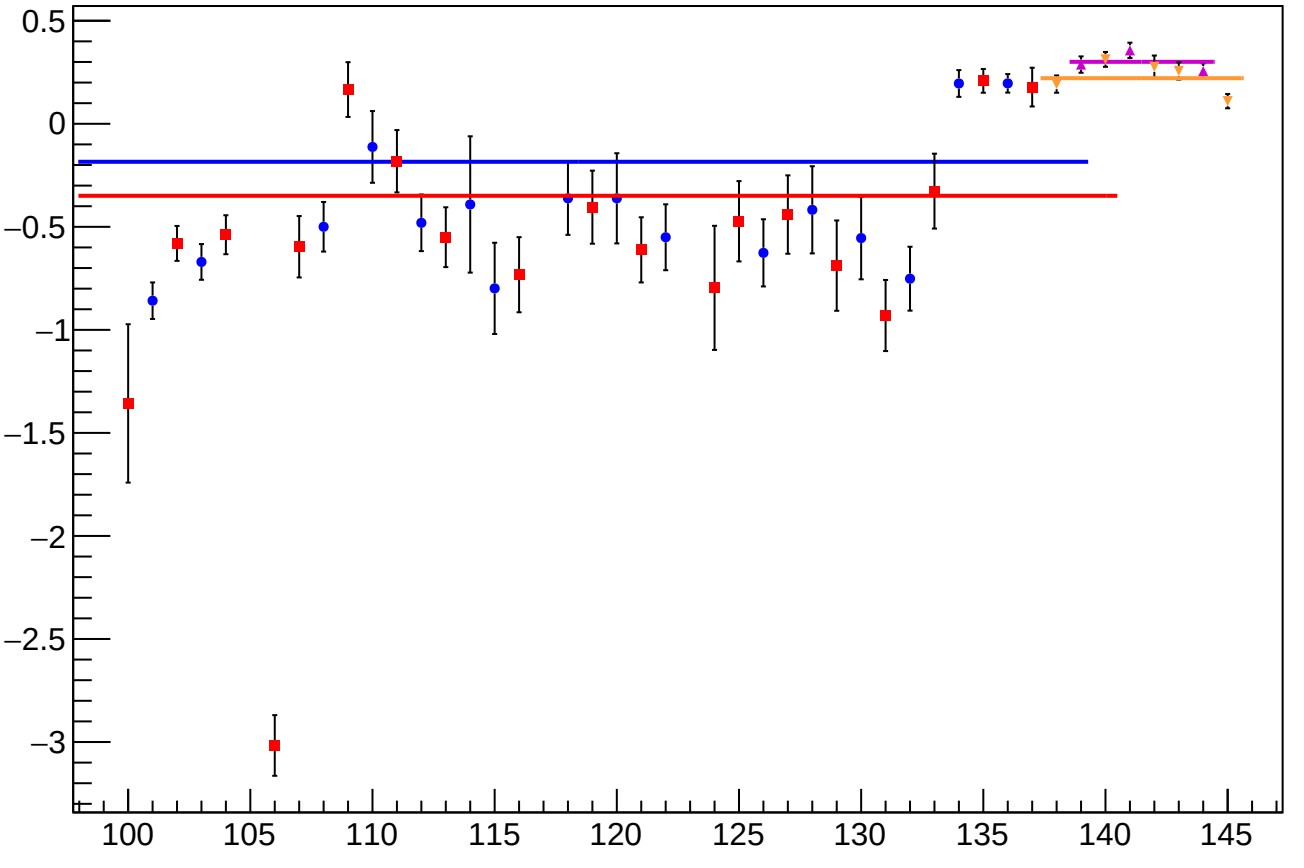
Left: -14.100+/-0.310 $\chi^2$/NDF: 406.8/7

Right: -6.743+/-0.370 $\chi^2$/NDF: 682.6/34

In: -10.090+/-0.357 $\chi^2$/NDF:752.0/18

Out: -11.854+/-0.319 $\chi^2$/NDF:555.8/23

All: -11.072+/-0.238 $\chi^2$/NDF: 1321.5/42




Right In: -0.184+/-0.027 $\chi^2$/NDF: 247.3/15

Left Out: 0.221+/-0.018 $\chi^2$/NDF:18.9/4

Right Out: -0.349+/-0.029 $\chi^2$/NDF: 516.5/18

Left In: 0.301+/-0.022 $\chi^2$/NDF:3.8/2

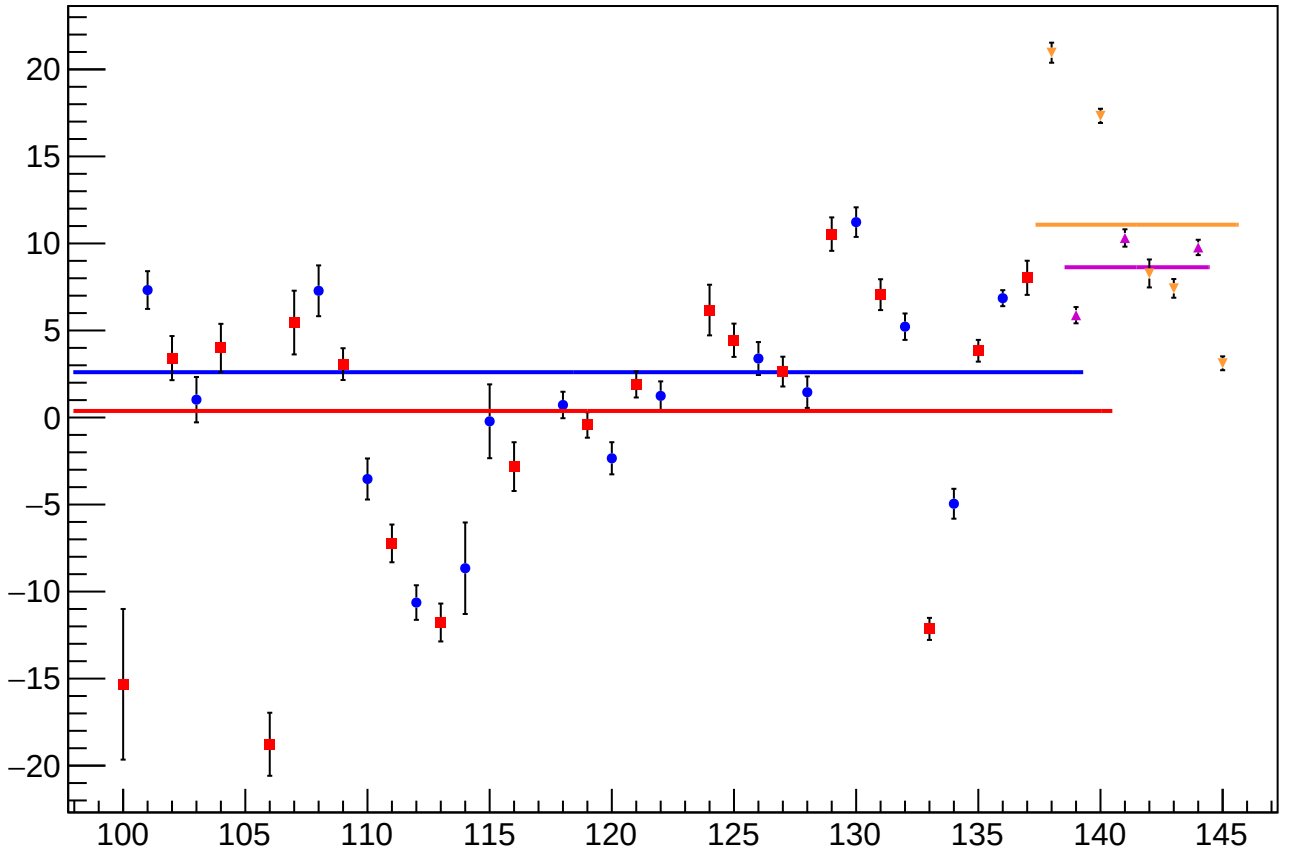
Left: 0.253+/-0.014 $\chi^2$/NDF: 30.5/7

Right: -0.259+/-0.020 $\chi^2$/NDF: 781.1/34

In: 0.105+/-0.017 $\chi^2$/NDF:446.8/18

Out: 0.065+/-0.015 $\chi^2$/NDF:810.3/23

All: 0.083+/-0.011 $\chi^2$/NDF: 1260.2/42




Right In: 2.604+/-0.224 $\chi^2$/NDF: 573.1/15

Left Out: 11.076+/-0.222 $\chi^2$/NDF:986.5/4

Right Out: 0.377+/-0.222 $\chi^2$/NDF: 1030.9/18

Left In: 8.633+/-0.270 $\chi^2$/NDF:52.8/2

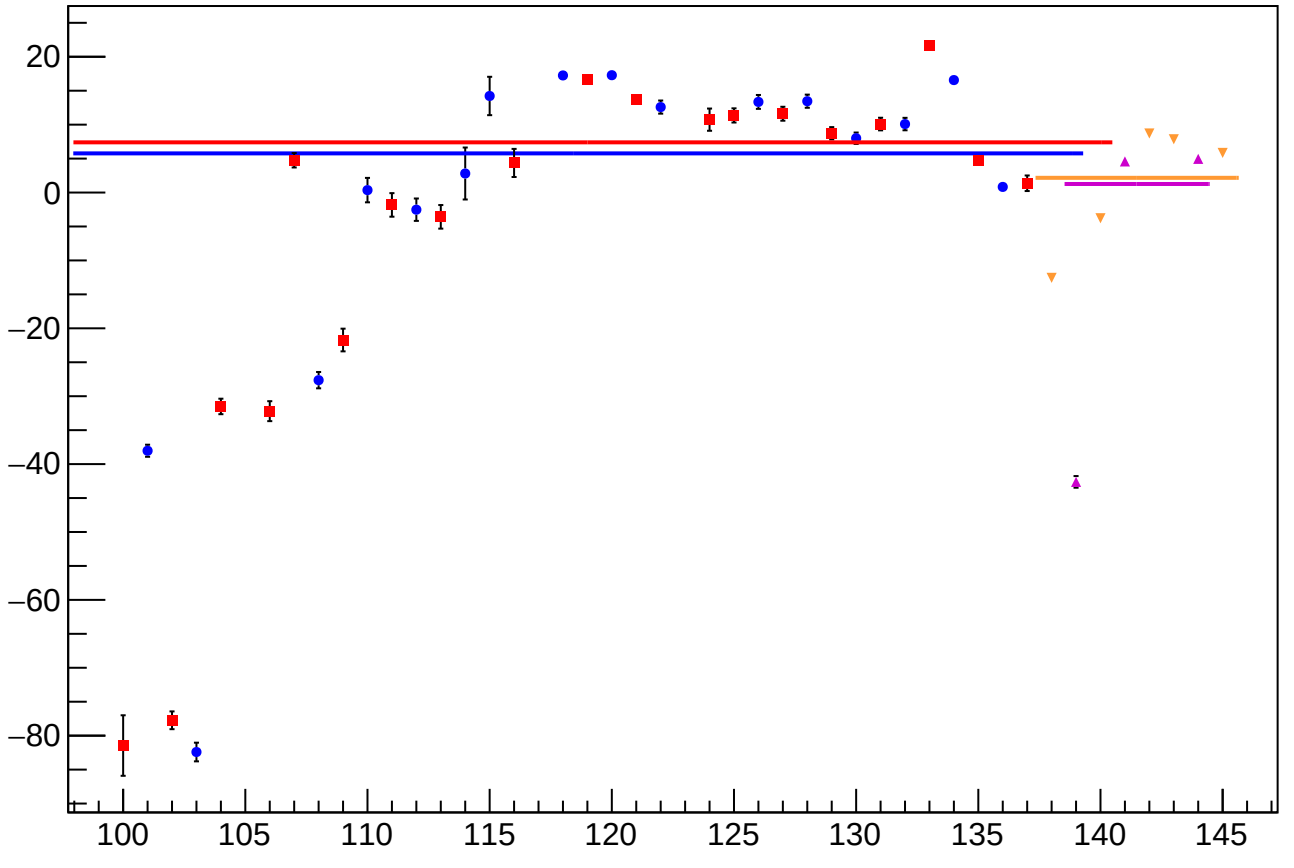
Left: 10.090+/-0.171 $\chi^2$/NDF: 1088.3/7

Right: 1.481+/-0.158 $\chi^2$/NDF: 1653.8/34

In: 5.067+/-0.172 $\chi^2$/NDF:921.7/18

Out: 5.738+/-0.157 $\chi^2$/NDF:3178.7/23

All: 5.434+/-0.116 $\chi^2$/NDF: 4108.7/42




Right In: 5.768+/-0.210 $\chi^2$/NDF: 8933.8/15

Left Out: 2.169+/-0.180 $\chi^2$/NDF:1431.7/4

Right Out: 7.393+/-0.209 $\chi^2$/NDF: 8390.6/18

Left In: 1.260+/-0.234 $\chi^2$/NDF:2823.3/2

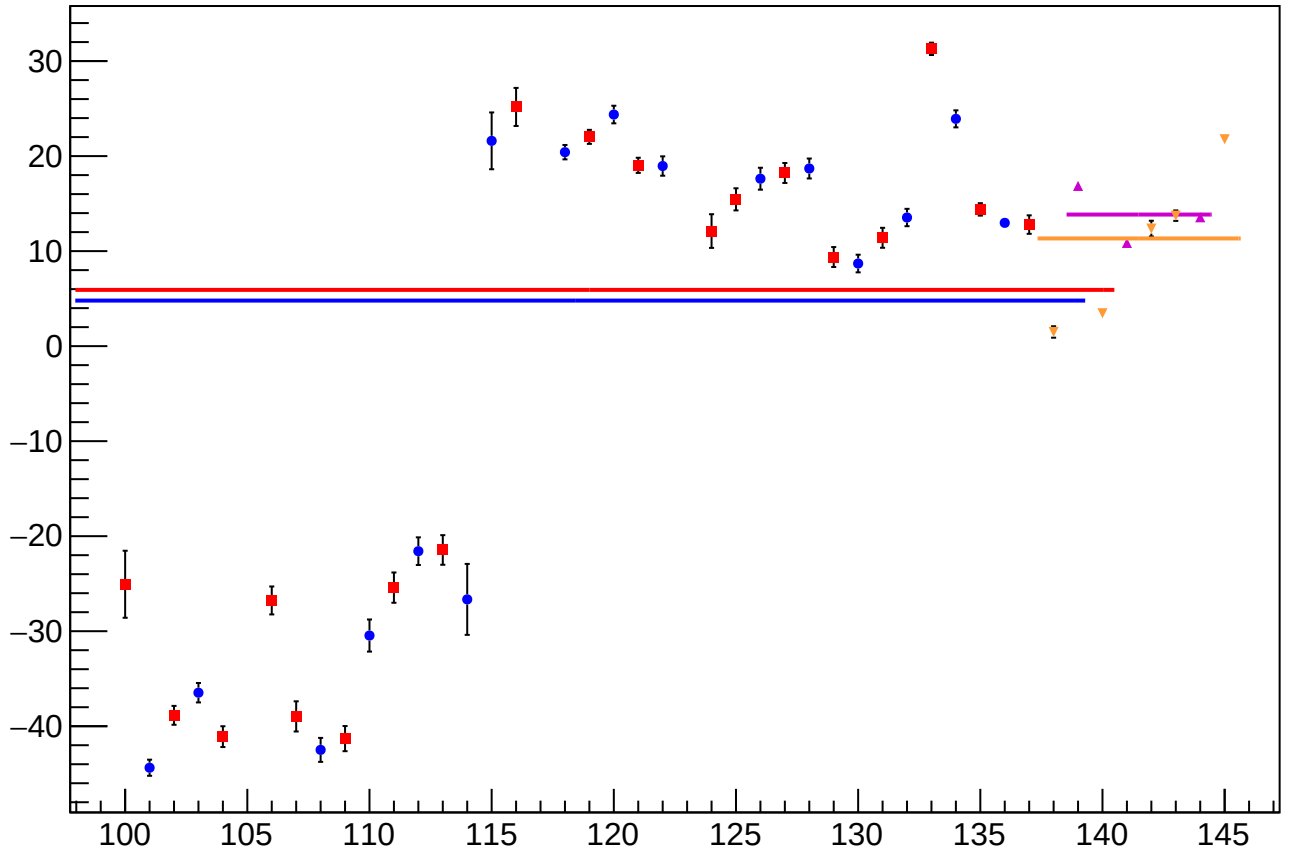
Left: 1.831+/-0.143 $\chi^2$/NDF: 4264.5/7

Right: 6.585+/-0.148 $\chi^2$/NDF: 17354.6/34

In: 3.763+/-0.156 $\chi^2$/NDF:11962.5/18

Out: 4.401+/-0.136 $\chi^2$/NDF:10181.0/23

All: 4.125+/-0.103 $\chi^2$/NDF: 22153.0/42




Right In: 4.794+/-0.237 $\chi^2$/NDF: 9496.9/15

Left Out: 11.333+/-0.229 $\chi^2$/NDF:1291.1/4

Right Out: 5.921+/-0.240 $\chi^2$/NDF: 10059.4/18

Left In: 13.848+/-0.278 $\chi^2$/NDF:73.1/2

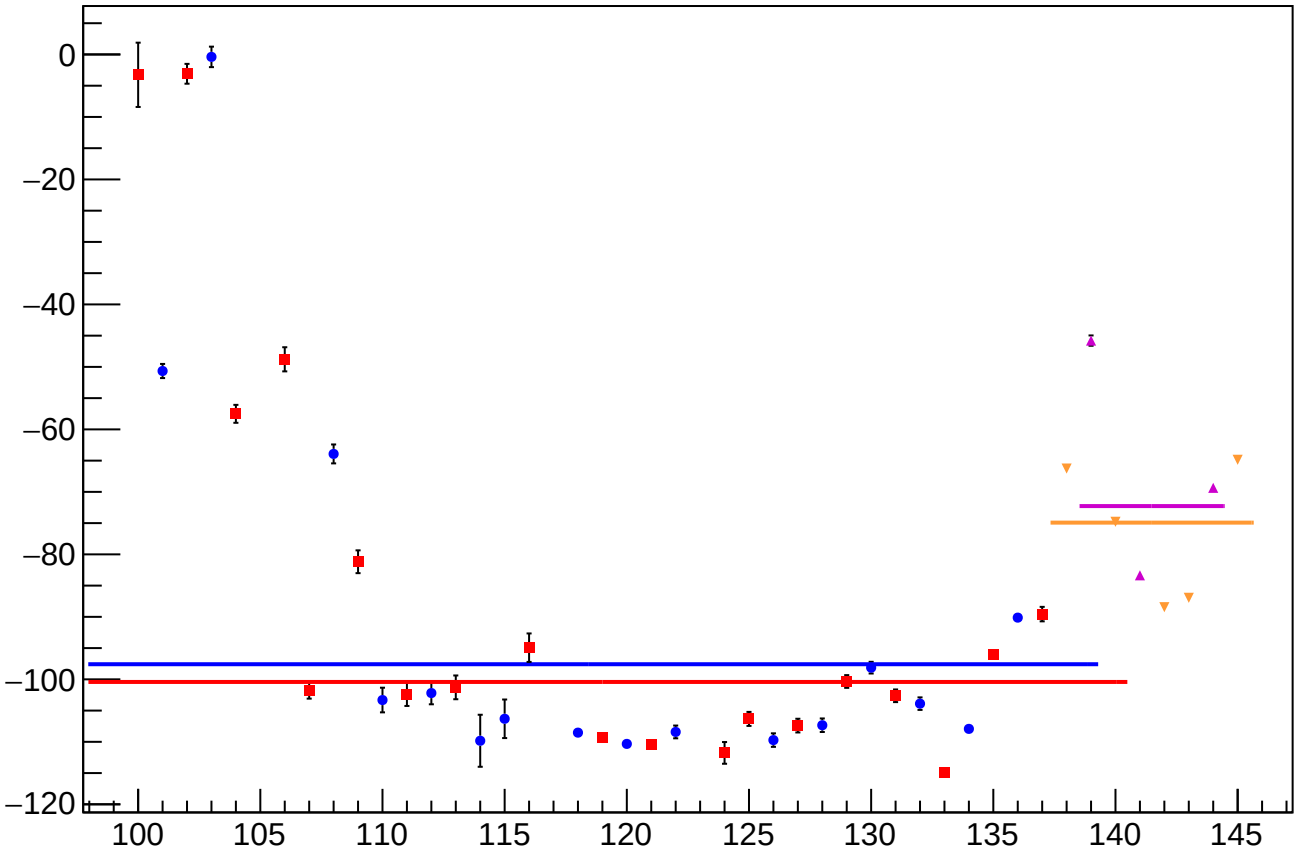
Left: 12.346+/-0.177 $\chi^2$/NDF: 1413.0/7

Right: 5.352+/-0.169 $\chi^2$/NDF: 19567.4/34

In: 8.607+/-0.181 $\chi^2$/NDF:10182.5/18

Out: 8.758+/-0.165 $\chi^2$/NDF:11617.3/23

All: 8.689+/-0.122 $\chi^2$/NDF: 21800.2/42




Right In: -97.581+/-0.242 $\chi^2$/NDF: 7144.2/15

Left Out: -74.920+/-0.211 $\chi^2$/NDF:2022.0/4

Right Out: -100.418+/-0.241 $\chi^2$/NDF: 7115.7/18

Left In: -72.273+/-0.271 $\chi^2$/NDF:1741.9/2

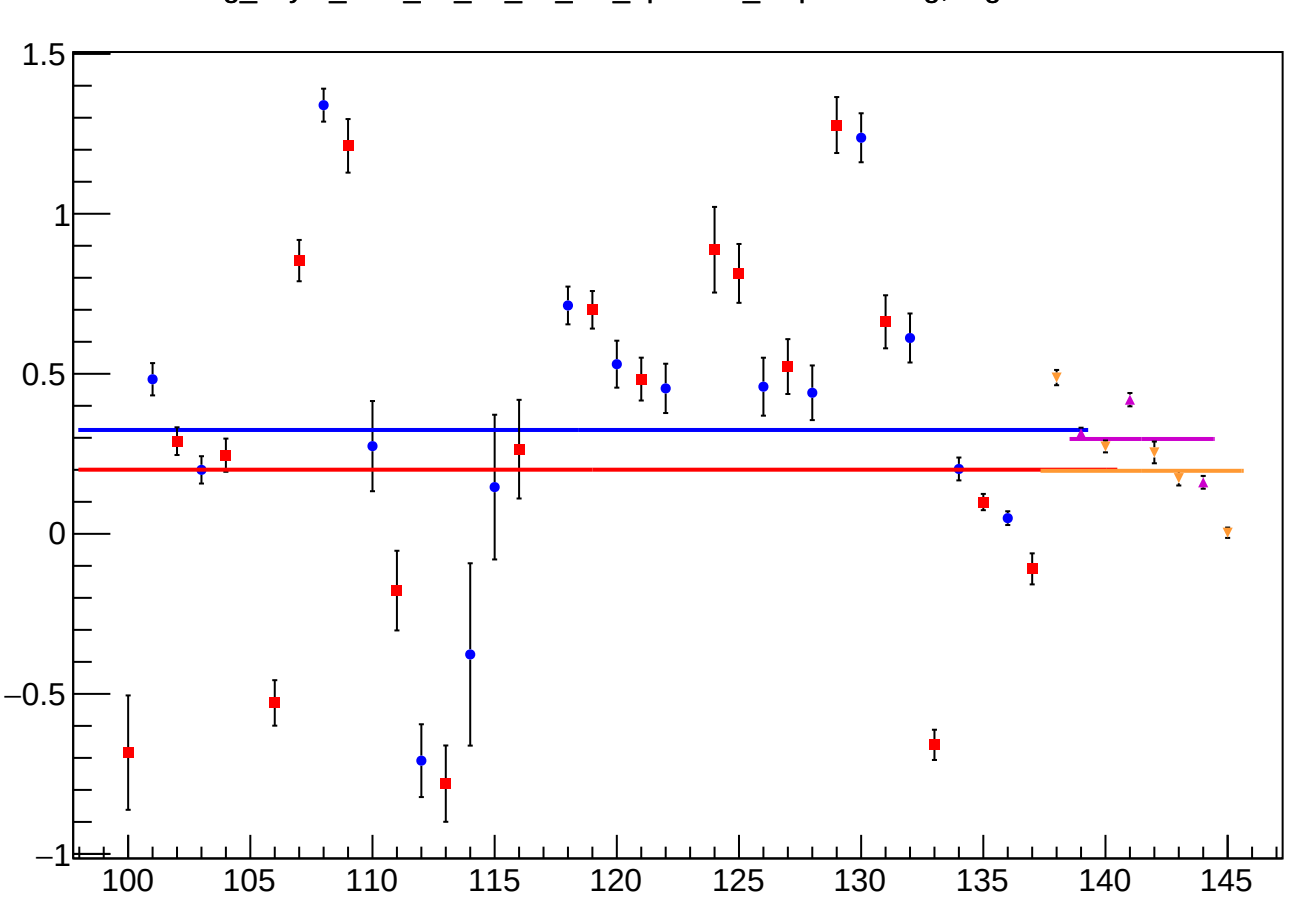
Left: -73.920+/-0.167 $\chi^2$/NDF: 3823.2/7

Right: -99.004+/-0.171 $\chi^2$/NDF: 14329.0/34

In: -86.368+/-0.180 $\chi^2$/NDF:13744.4/18

Out: -85.997+/-0.159 $\chi^2$/NDF:15469.9/23

All: -86.159+/-0.119 $\chi^2$/NDF: 29216.6/42




Right In: 0.324+/-0.013 $\chi^2$/NDF: 886.5/15

Left Out: 0.197+/-0.009 $\chi^2$/NDF:312.5/4

Right Out: 0.200+/-0.014 $\chi^2$/NDF: 1206.3/18

Left In: 0.296+/-0.011 $\chi^2$/NDF:81.5/2

Left: 0.238+/-0.007 $\chi^2$/NDF: 440.3/7

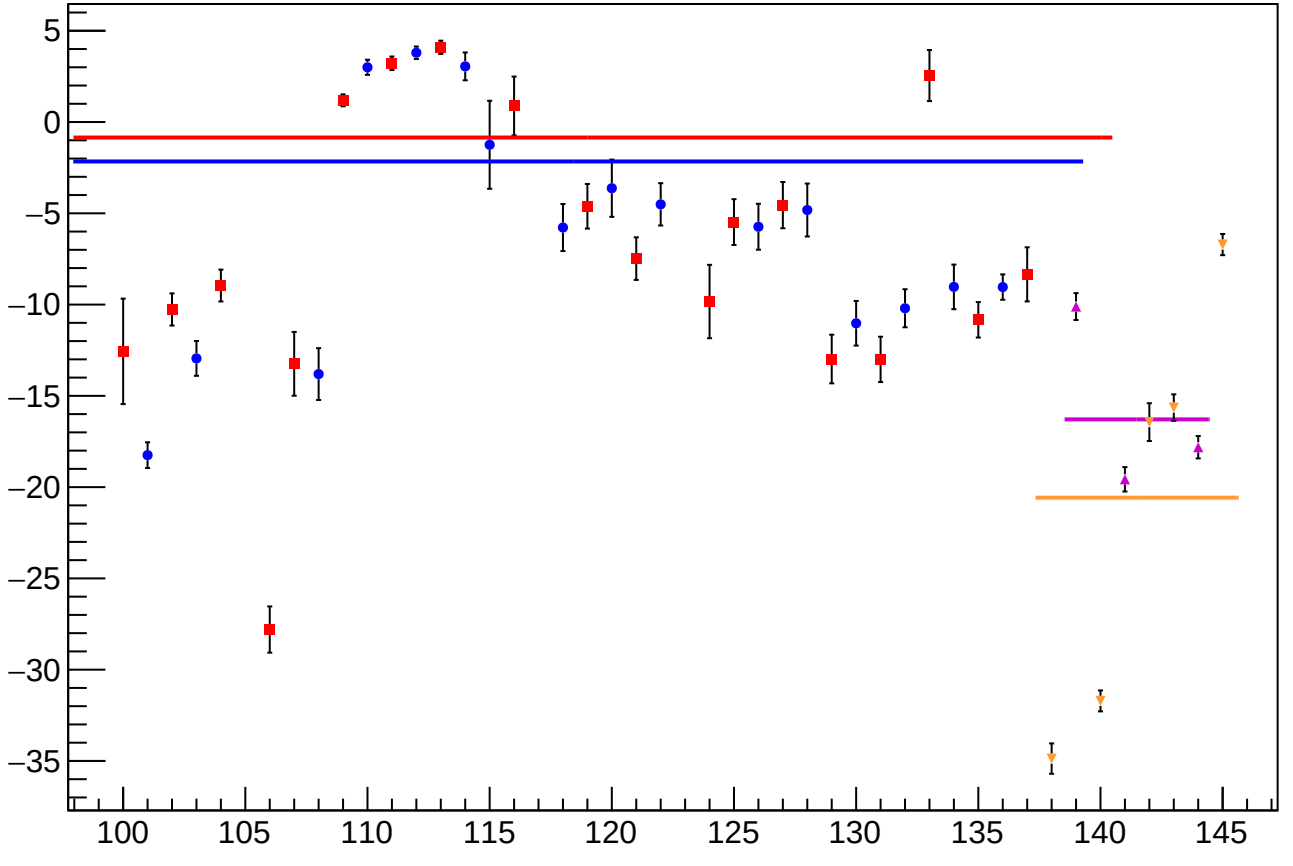
Right: 0.265+/-0.010 $\chi^2$/NDF: 2134.6/34

In: 0.308+/-0.009 $\chi^2$/NDF:970.6/18

Out: 0.198+/-0.008 $\chi^2$/NDF:1518.8/23

All: 0.248+/-0.006 $\chi^2$/NDF: 2579.9/42

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: -20.577+/-0.312 $\chi^2$/NDF:1304.7/4

Right Out: -0.848+/-0.170 $\chi^2$/NDF: 1465.4/18

Left In: -16.288+/-0.385 $\chi^2$/NDF:100.8/2

Left: -18.879+/-0.242 $\chi^2$/NDF: 1480.4/7

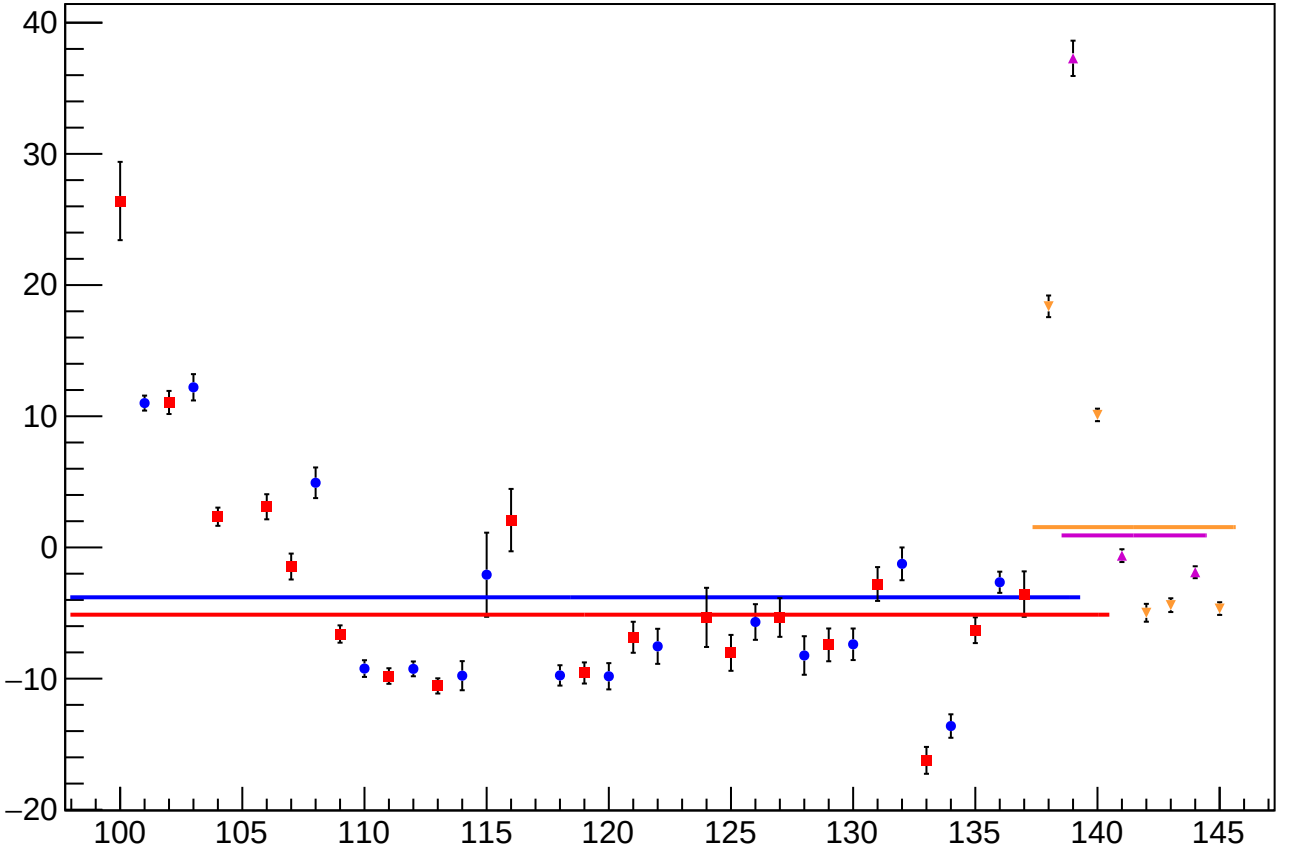
Right: -1.426+/-0.127 $\chi^2$/NDF: 2982.5/34

In: -4.971+/-0.172 $\chi^2$/NDF:2669.8/18

Out: -5.383+/-0.150 $\chi^2$/NDF:5851.6/23

All: -5.206+/-0.113 $\chi^2$/NDF: 8524.7/42

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: 1.549+/-0.251 $\chi^2$/NDF:1121.8/4

Right Out: -5.126+/-0.219 $\chi^2$/NDF: 980.6/18

Left In: 0.917+/-0.323 $\chi^2$/NDF:778.1/2

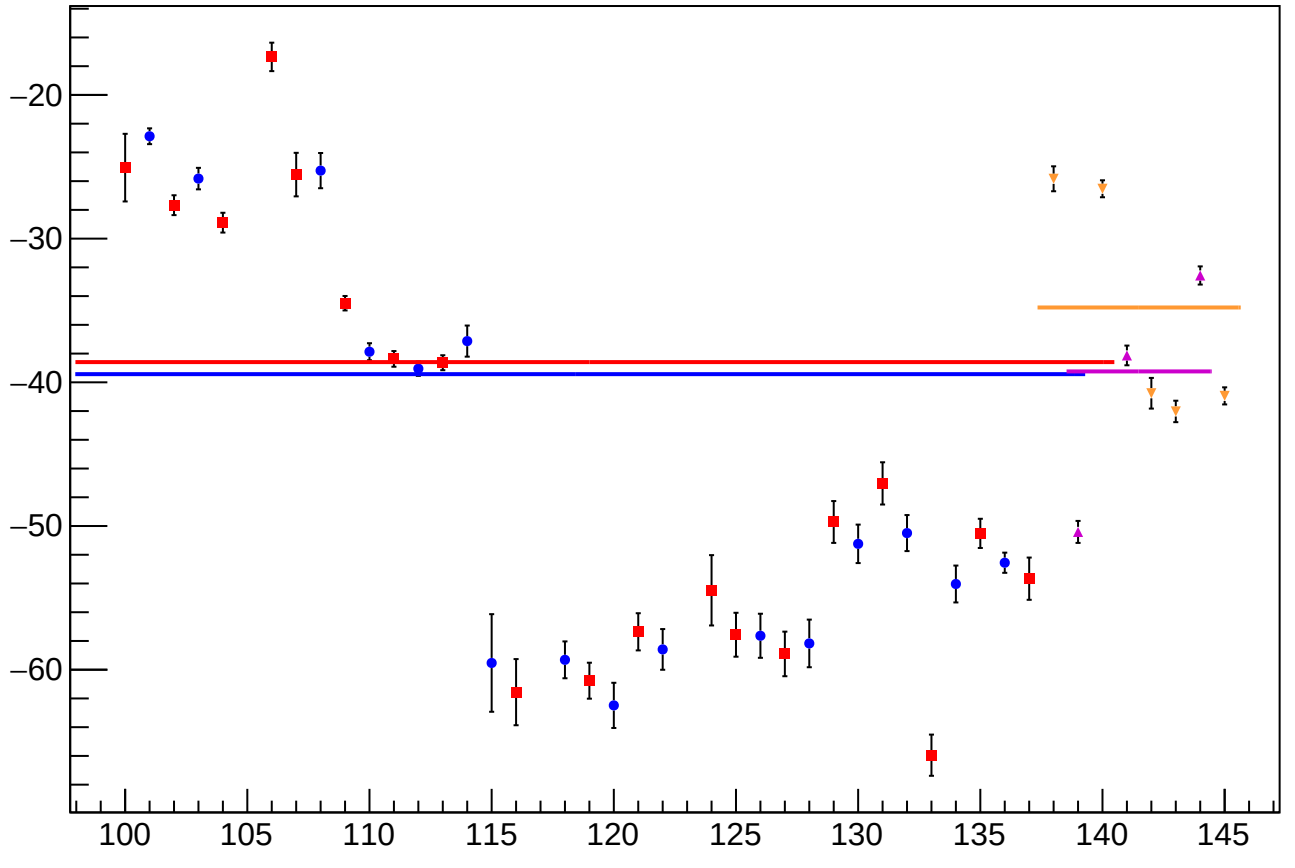
Left: 1.311+/-0.198 $\chi^2$/NDF: 1902.2/7

Right: -4.484+/-0.157 $\chi^2$/NDF: 2423.8/34

In: -2.252+/-0.185 $\chi^2$/NDF:2347.0/18

Out: -2.241+/-0.165 $\chi^2$/NDF:2504.8/23

All: -2.246+/-0.123 $\chi^2$/NDF: 4851.8/42




Right In: -39.431+/-0.225 $\chi^2$/NDF: 2958.1/15

Left Out: -34.792+/-0.321 $\chi^2$/NDF:534.0/4

Right Out: -38.593+/-0.213 $\chi^2$/NDF: 2772.1/18

Left In: -39.241+/-0.397 $\chi^2$/NDF:327.0/2

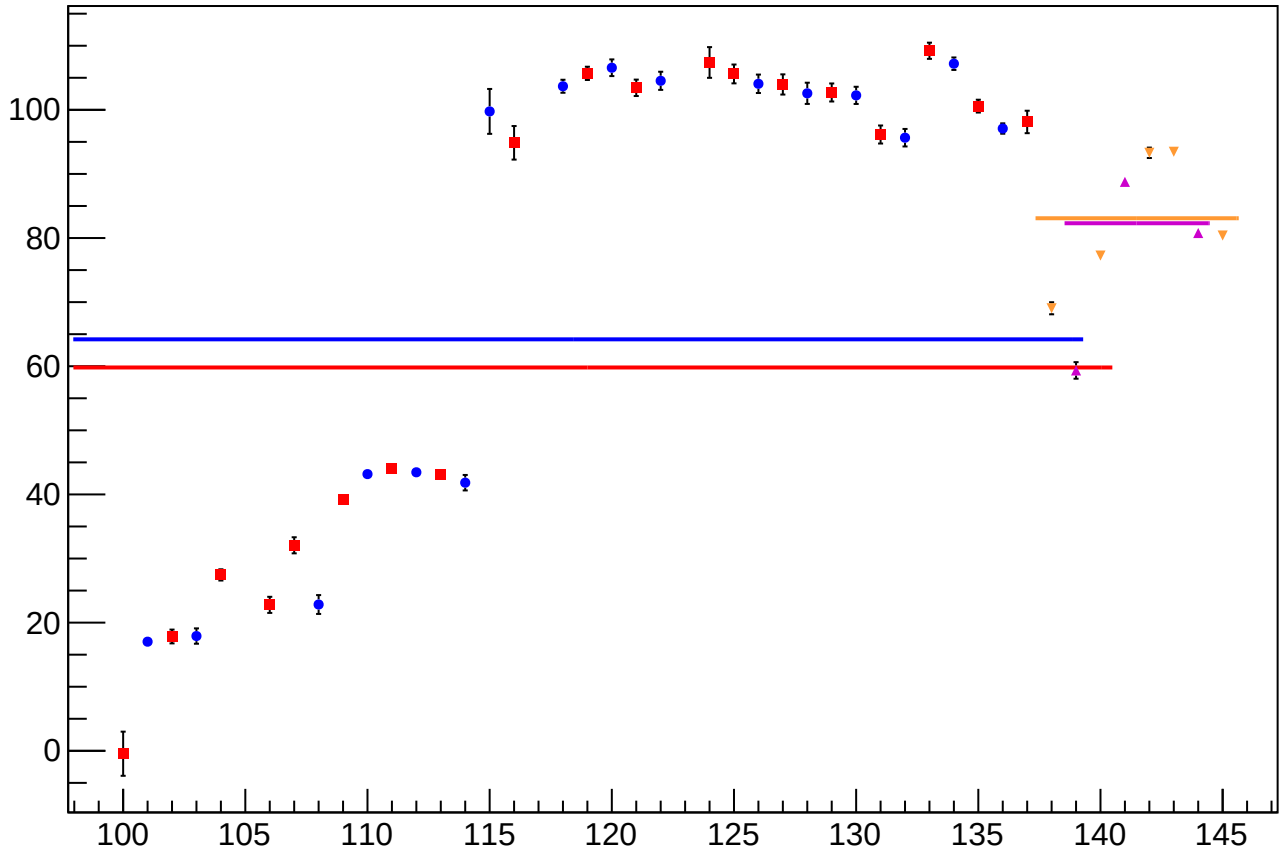
Left: -36.551+/-0.250 $\chi^2$/NDF: 936.8/7

Right: -38.987+/-0.155 $\chi^2$/NDF: 5737.6/34

In: -39.385+/-0.196 $\chi^2$/NDF:3285.3/18

Out: -37.436+/-0.177 $\chi^2$/NDF:3403.5/23

All: -38.312+/-0.132 $\chi^2$/NDF: 6743.2/42




Right In: 64.196+/-0.258 $\chi^2$/NDF: 18596.4/15

Left Out: 83.085+/-0.294 $\chi^2$/NDF:785.0/4

Right Out: 59.805+/-0.249 $\chi^2$/NDF: 17431.2/18

Left In: 82.306+/-0.375 $\chi^2$/NDF:447.5/2

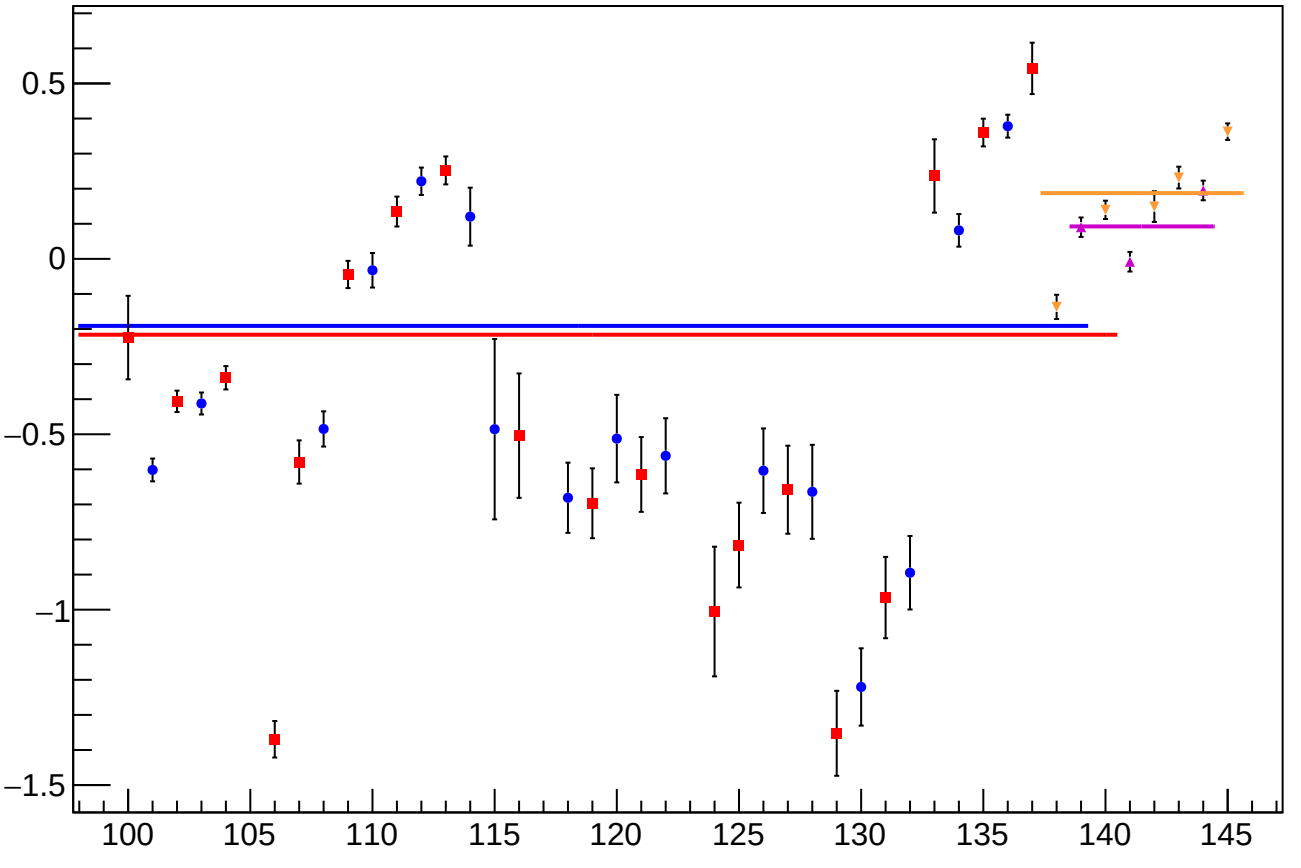
Left: 82.789+/-0.232 $\chi^2$/NDF: 1235.2/7

Right: 61.924+/-0.179 $\chi^2$/NDF: 36178.0/34

In: 69.995+/-0.212 $\chi^2$/NDF:20627.9/18

Out: 69.506+/-0.190 $\chi^2$/NDF:21866.6/23

All: 69.724+/-0.142 $\chi^2$/NDF: 42497.5/42




Right In: -0.191+/-0.013 $\chi^2$/NDF: 918.3/15

Left Out: 0.187+/-0.013 $\chi^2$/NDF:149.5/4

Right Out: -0.216+/-0.013 $\chi^2$/NDF: 1368.1/18

Left In: 0.092+/-0.016 $\chi^2$/NDF:26.4/2

Left: 0.149+/-0.010 $\chi^2$/NDF: 196.6/7

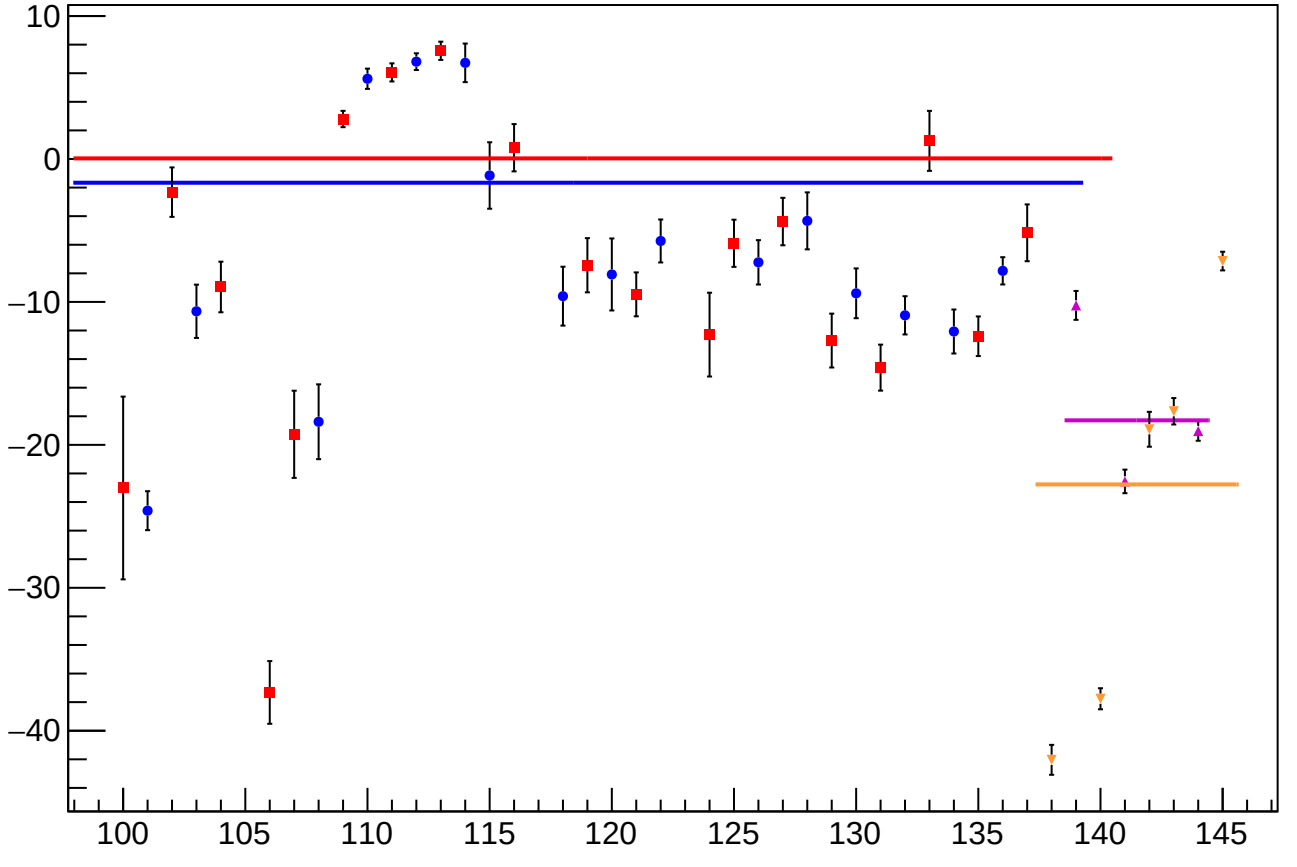
Right: -0.204+/-0.009 $\chi^2$/NDF: 2288.3/34

In: -0.075+/-0.010 $\chi^2$/NDF:1127.7/18

Out: -0.020+/-0.009 $\chi^2$/NDF:1991.6/23

All: -0.044+/-0.007 $\chi^2$/NDF: 3135.0/42

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -1.661+/-0.308 $\chi^2$/NDF: 900.3/15

Left Out: -22.767+/-0.380 $\chi^2$/NDF:1366.2/4

Right Out: 0.042+/-0.282 $\chi^2$/NDF: 931.1/18

Left In: -18.284+/-0.467 $\chi^2$/NDF:91.4/2

Left: -20.982+/-0.294 $\chi^2$/NDF: 1513.1/7

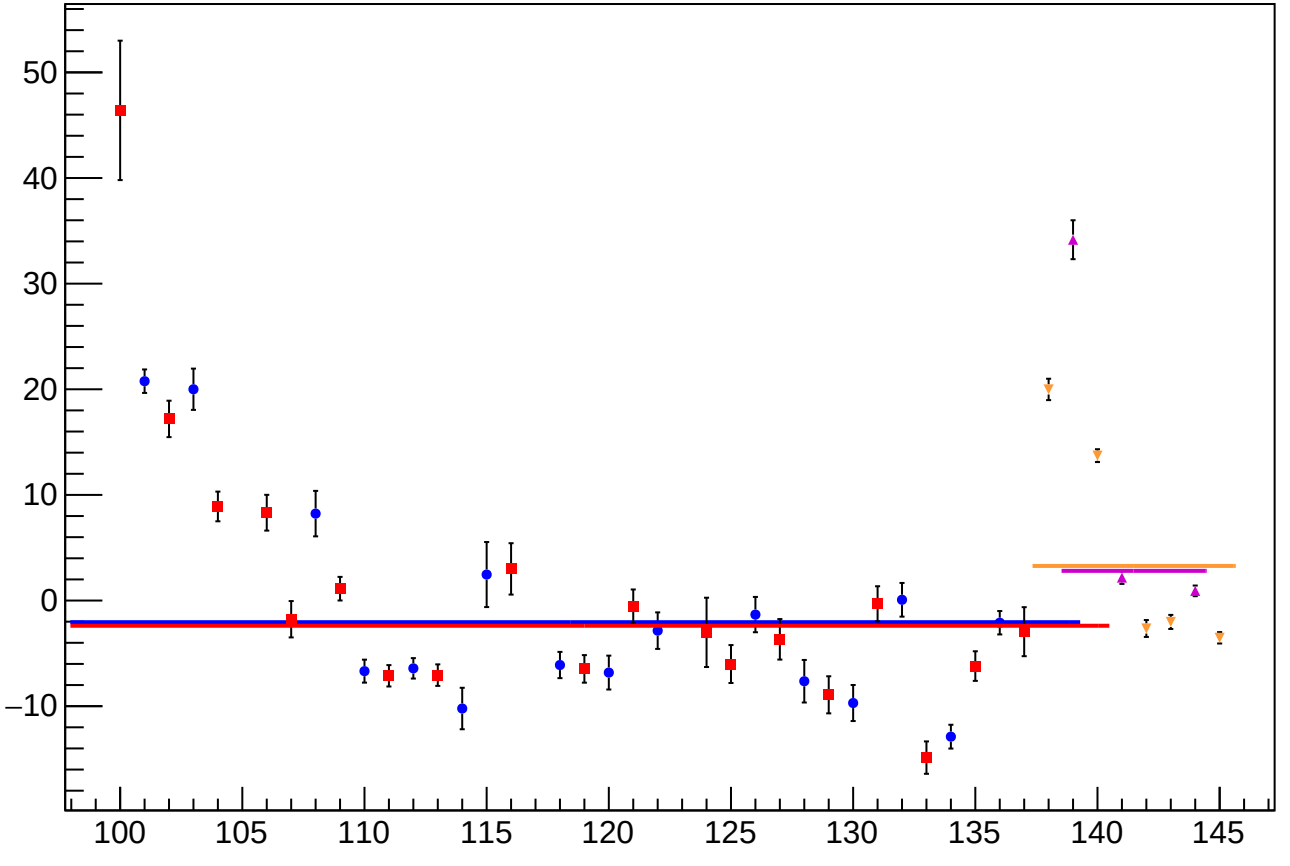
Right: -0.734+/-0.208 $\chi^2$/NDF: 1848.1/34

In: -6.708+/-0.257 $\chi^2$/NDF:1875.7/18

Out: -8.067+/-0.226 $\chi^2$/NDF:4624.8/23

All: -7.474+/-0.170 $\chi^2$/NDF: 6516.2/42

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: 3.277+/-0.302 $\chi^2$/NDF:844.9/4

Right Out: -2.386+/-0.355 $\chi^2$/NDF: 450.9/18

Left In: 2.812+/-0.378 $\chi^2$/NDF:304.7/2

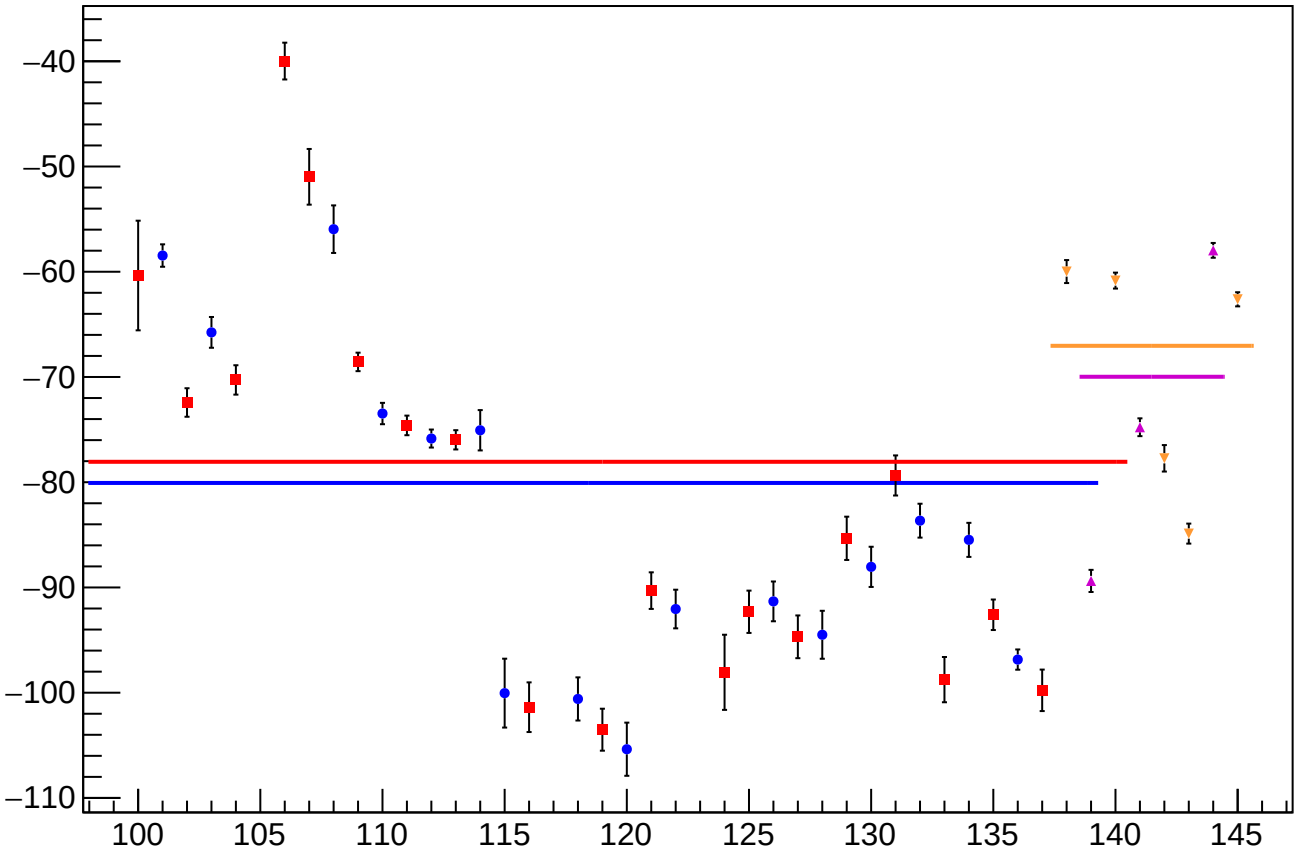
Left: 3.095+/-0.236 $\chi^2$/NDF: 1150.5/7

Right: -2.218+/-0.252 $\chi^2$/NDF: 1223.3/34

In: 0.238+/-0.259 $\chi^2$/NDF:1164.3/18

Out: 0.898+/-0.230 $\chi^2$/NDF:1443.1/23

All: 0.607+/-0.172 $\chi^2$/NDF: 2611.0/42




Right In: -80.069+/-0.364 $\chi^2$/NDF: 1387.2/15

Left Out: -67.038+/-0.391 $\chi^2$/NDF:576.7/4

Right Out: -78.059+/-0.354 $\chi^2$/NDF: 1561.2/18

Left In: -69.979+/-0.481 $\chi^2$/NDF:663.8/2

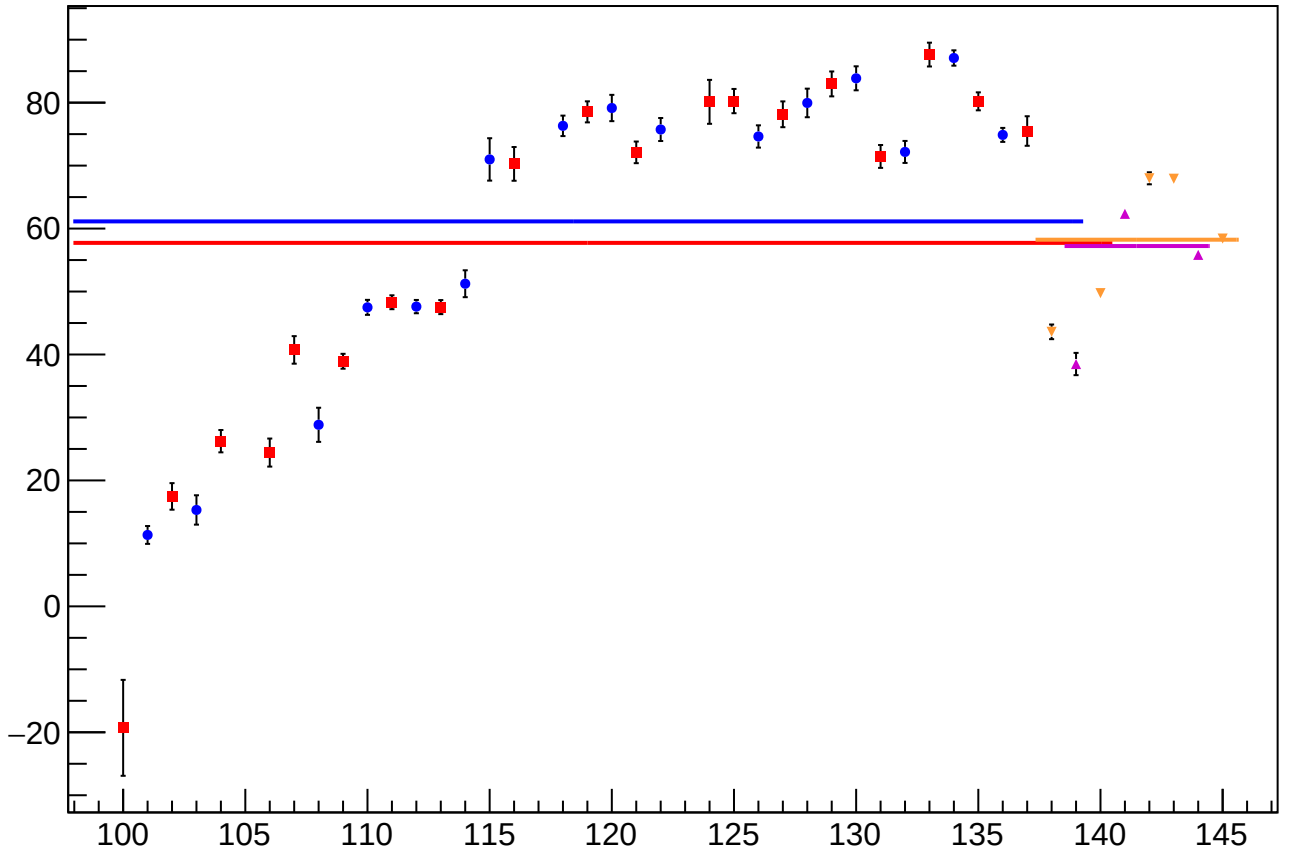
Left: -68.208+/-0.304 $\chi^2$/NDF: 1263.0/7

Right: -79.033+/-0.254 $\chi^2$/NDF: 2964.1/34

In: -76.391+/-0.291 $\chi^2$/NDF:2330.5/18

Out: -73.104+/-0.262 $\chi^2$/NDF:2574.9/23

All: -74.580+/-0.195 $\chi^2$/NDF: 4976.0/42




Right In: 61.139+/-0.401 $\chi^2$/NDF: 3229.3/15

Left Out: 58.232+/-0.355 $\chi^2$/NDF:546.7/4

Right Out: 57.728+/-0.400 $\chi^2$/NDF: 2775.6/18

Left In: 57.225+/-0.441 $\chi^2$/NDF:169.1/2

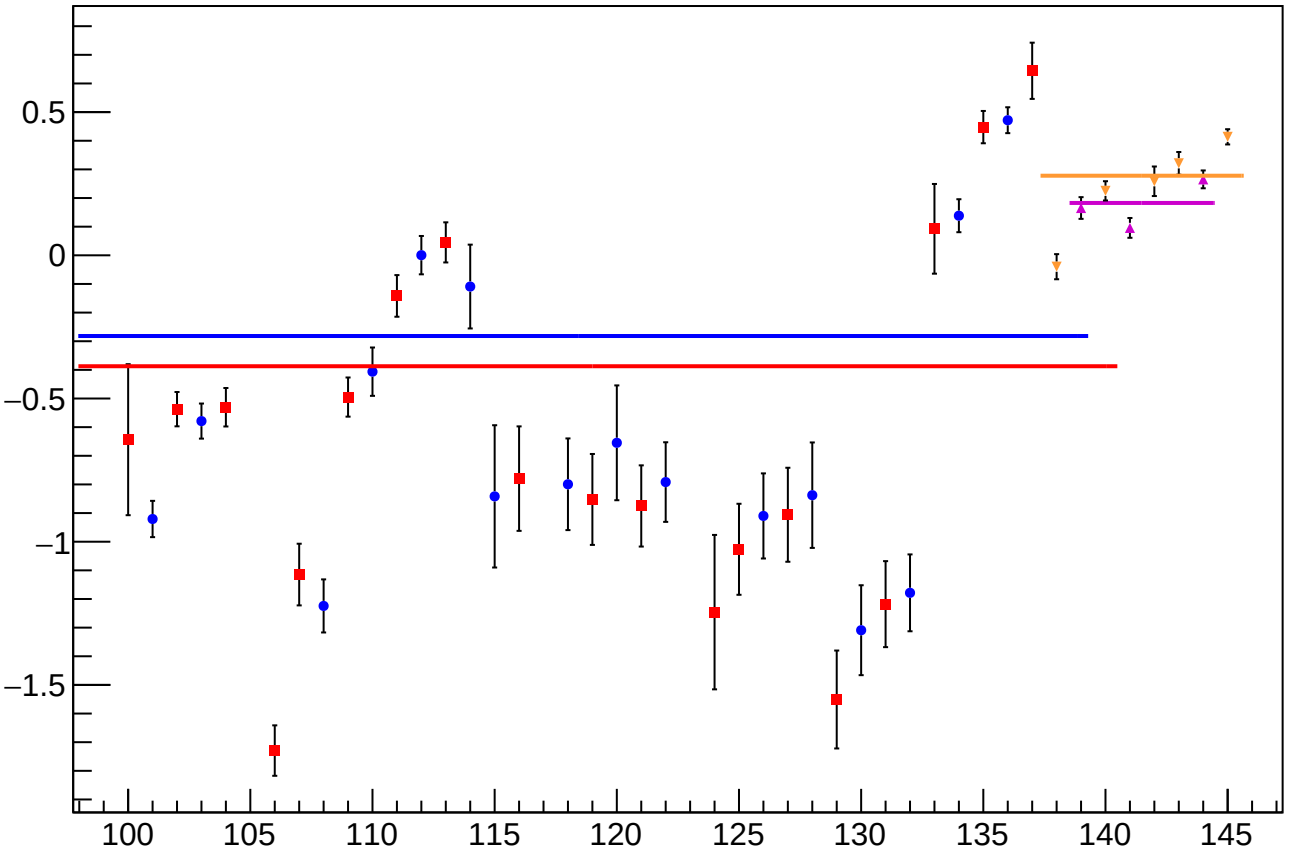
Left: 57.836+/-0.277 $\chi^2$/NDF: 718.9/7

Right: 59.431+/-0.283 $\chi^2$/NDF: 6041.2/34

In: 59.370+/-0.296 $\chi^2$/NDF:3441.5/18

Out: 58.010+/-0.266 $\chi^2$/NDF:3323.2/23

All: 58.615+/-0.198 $\chi^2$/NDF: 6776.4/42




Right In: -0.282+/-0.022 $\chi^2$/NDF: 728.2/15

Left Out: 0.278+/-0.016 $\chi^2$/NDF:82.3/4

Right Out: -0.387+/-0.022 $\chi^2$/NDF: 818.7/18

Left In: 0.183+/-0.020 $\chi^2$/NDF:13.6/2

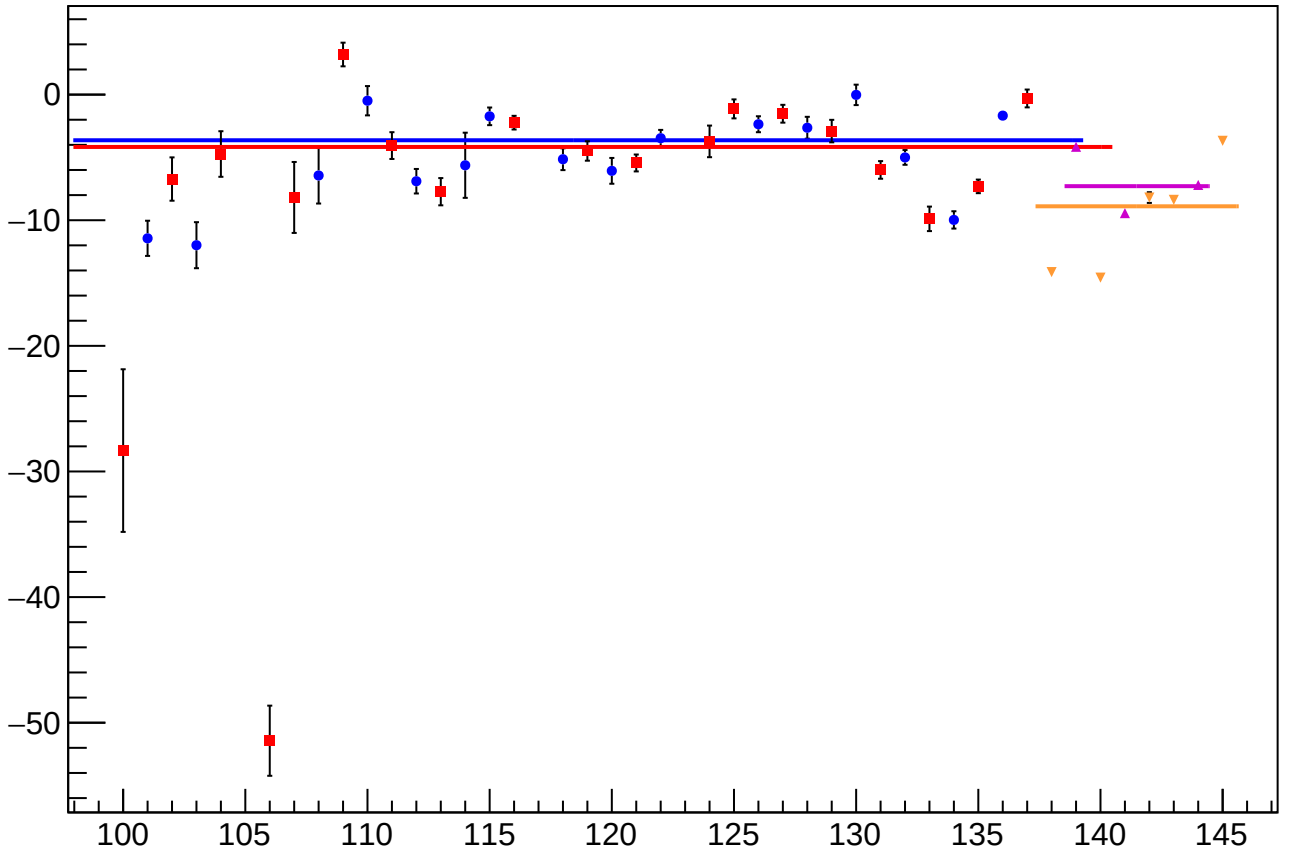
Left: 0.240+/-0.013 $\chi^2$/NDF: 109.8/7

Right: -0.334+/-0.015 $\chi^2$/NDF: 1558.7/34

In: -0.028+/-0.015 $\chi^2$/NDF:993.3/18

Out: 0.044+/-0.013 $\chi^2$/NDF:1498.3/23

All: 0.012+/-0.010 $\chi^2$/NDF: 2505.2/42




Right In: -3.634+/-0.189 $\chi^2$/NDF: 234.8/15

Left Out: -8.892+/-0.130 $\chi^2$/NDF:1266.0/4

Right Out: -4.167+/-0.199 $\chi^2$/NDF: 529.7/18

Left In: -7.289+/-0.162 $\chi^2$/NDF:126.1/2

Left: -8.267+/-0.101 $\chi^2$/NDF: 1451.7/7

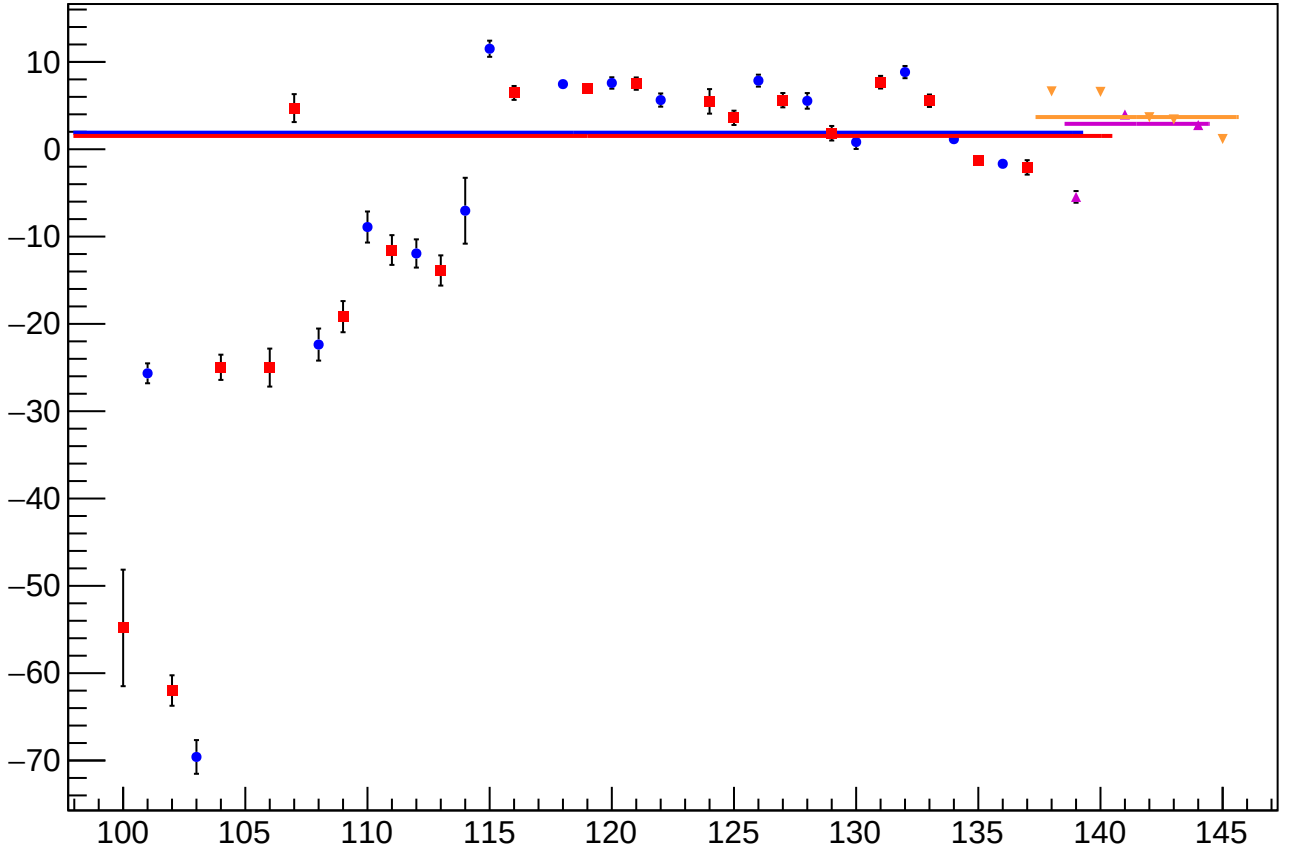
Right: -3.886+/-0.137 $\chi^2$/NDF: 768.2/34

In: -5.739+/-0.123 $\chi^2$/NDF:576.2/18

Out: -7.489+/-0.109 $\chi^2$/NDF:2190.2/23

All: -6.722+/-0.081 $\chi^2$/NDF: 2879.9/42

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: 3.688+/-0.103 $\chi^2$/NDF:450.8/4

Right Out: 1.525+/-0.208 $\chi^2$/NDF: 2559.8/18

Left In: 2.911+/-0.130 $\chi^2$/NDF:182.1/2

Left: 3.388+/-0.081 $\chi^2$/NDF: 654.9/7

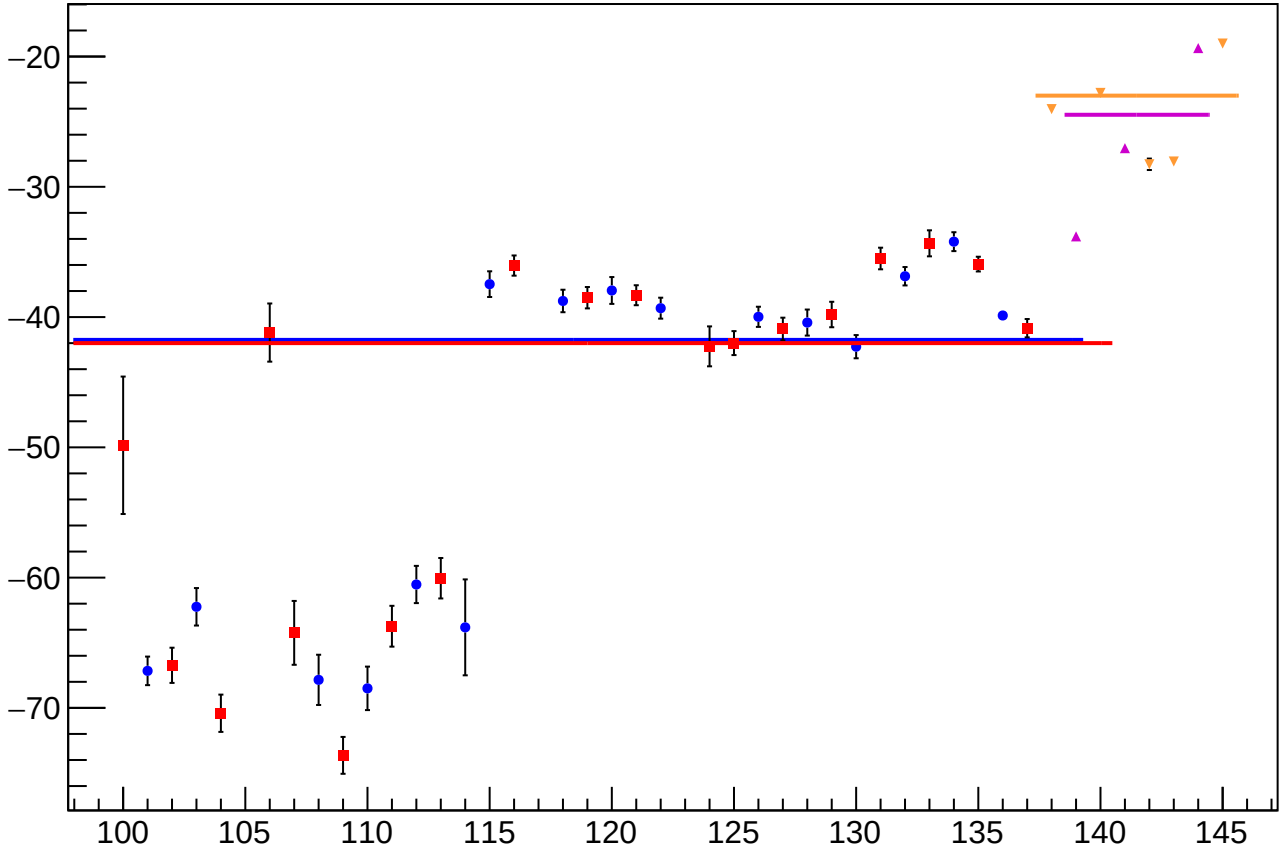
Right: 1.730+/-0.140 $\chi^2$/NDF: 5399.7/34

In: 2.586+/-0.107 $\chi^2$/NDF:3039.8/18

Out: 3.262+/-0.092 $\chi^2$/NDF:3097.2/23

All: 2.974+/-0.070 $\chi^2$/NDF: 6159.9/42

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -41.751+/-0.208 $\chi^2$/NDF: 1633.9/15

Left Out: -23.000+/-0.134 $\chi^2$/NDF:728.7/4

Right Out: -41.999+/-0.228 $\chi^2$/NDF: 1985.2/18

Left In: -24.471+/-0.167 $\chi^2$/NDF:1133.1/2

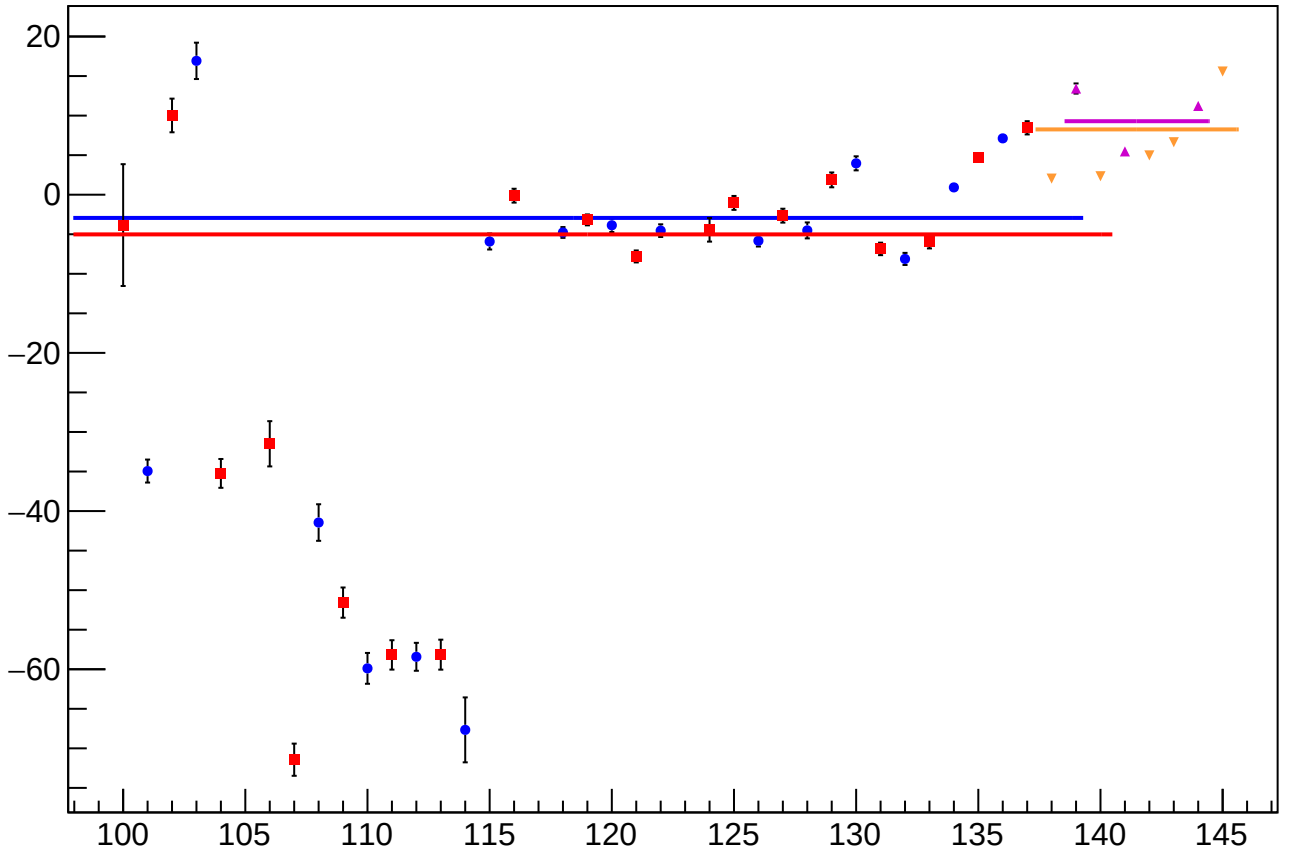
Left: -23.573+/-0.104 $\chi^2$/NDF: 1909.0/7

Right: -41.863+/-0.154 $\chi^2$/NDF: 3619.8/34

In: -31.272+/-0.130 $\chi^2$/NDF:6967.8/18

Out: -27.847+/-0.115 $\chi^2$/NDF:7873.8/23

All: -29.352+/-0.086 $\chi^2$/NDF: 15229.1/42




Right In: -2.936+/-0.210 $\chi^2$/NDF: 3725.6/15

Left Out: 8.255+/-0.121 $\chi^2$/NDF:2193.8/4

Right Out: -5.018+/-0.232 $\chi^2$/NDF: 4377.3/18

Left In: 9.292+/-0.152 $\chi^2$/NDF:362.3/2

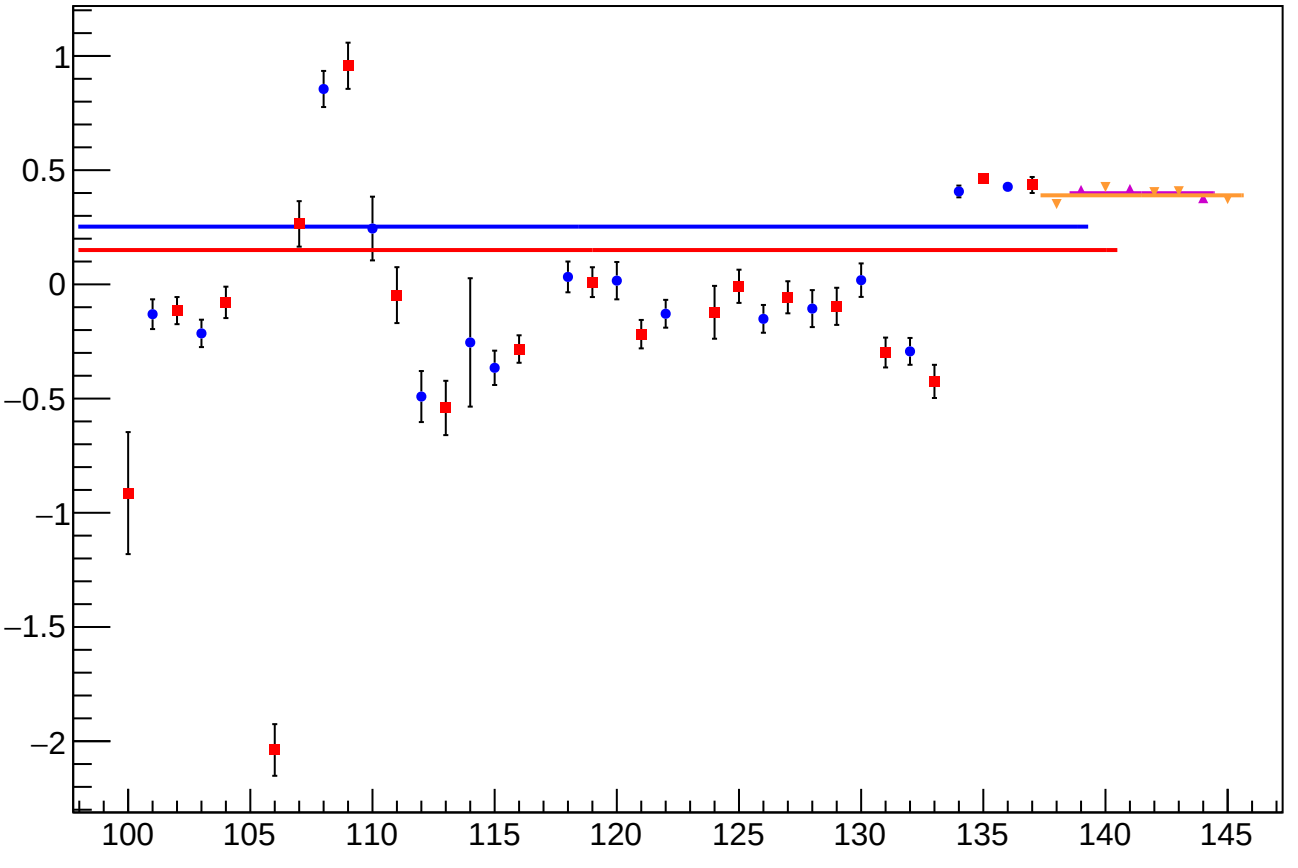
Left: 8.657+/-0.095 $\chi^2$/NDF: 2584.6/7

Right: -3.873+/-0.155 $\chi^2$/NDF: 8147.2/34

In: 5.084+/-0.123 $\chi^2$/NDF:6319.0/18

Out: 5.414+/-0.107 $\chi^2$/NDF:9148.1/23

All: 5.272+/-0.081 $\chi^2$/NDF: 15471.2/42




Right In: 0.253+/-0.011 $\chi^2$/NDF: 631.0/15

Left Out: 0.390+/-0.006 $\chi^2$/NDF:21.4/4

Right Out: 0.150+/-0.013 $\chi^2$/NDF: 1018.0/18

Left In: 0.399+/-0.007 $\chi^2$/NDF:7.6/2

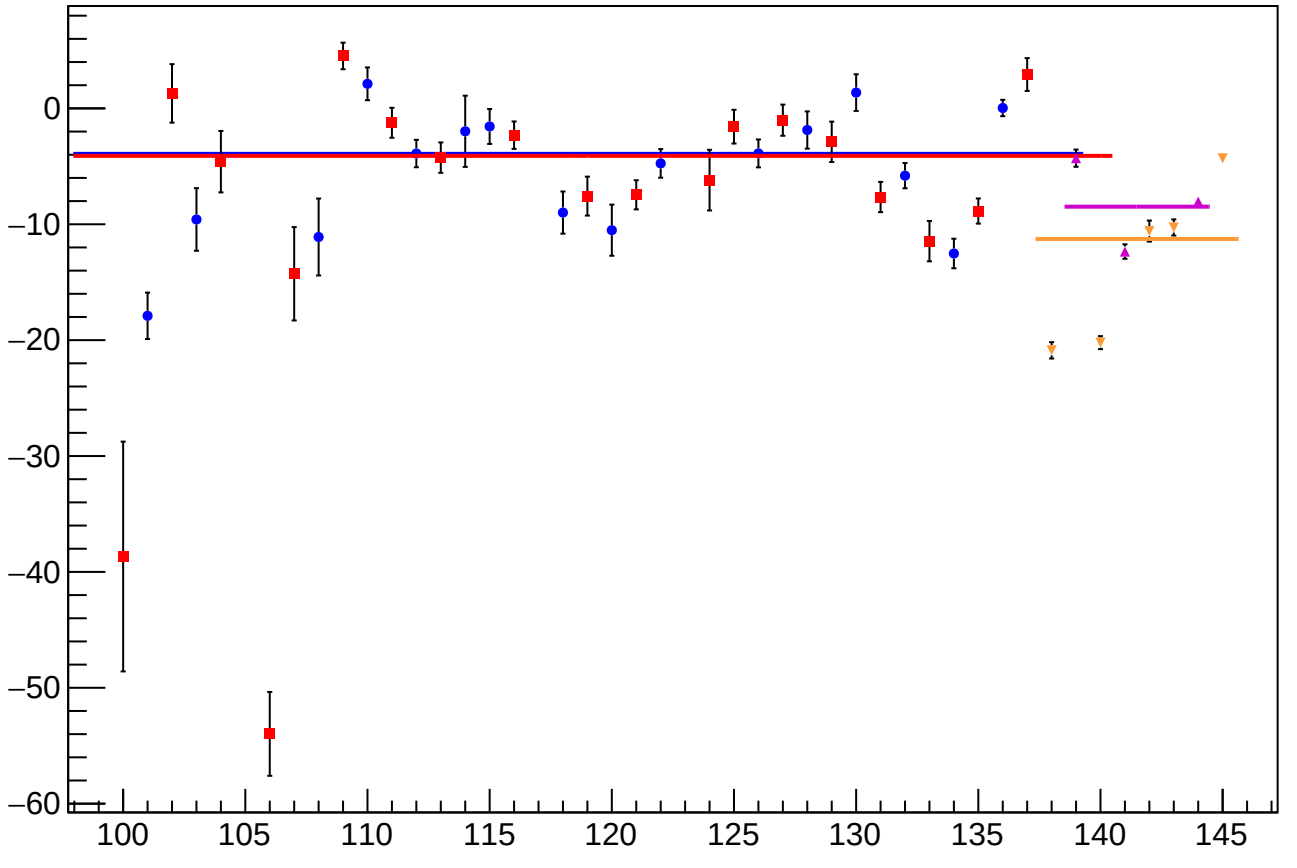
Left: 0.393+/-0.004 $\chi^2$/NDF: 30.1/7

Right: 0.209+/-0.009 $\chi^2$/NDF: 1682.8/34

In: 0.360+/-0.006 $\chi^2$/NDF:758.0/18

Out: 0.355+/-0.005 $\chi^2$/NDF:1314.4/23

All: 0.357+/-0.004 $\chi^2$/NDF: 2072.9/42




Right In: -3.924+/-0.346 $\chi^2$/NDF: 188.8/15

Left Out: -11.268+/-0.259 $\chi^2$/NDF:754.5/4

Right Out: -4.096+/-0.357 $\chi^2$/NDF: 366.9/18

Left In: -8.481+/-0.320 $\chi^2$/NDF:71.1/2

Left: -10.165+/-0.201 $\chi^2$/NDF: 871.4/7

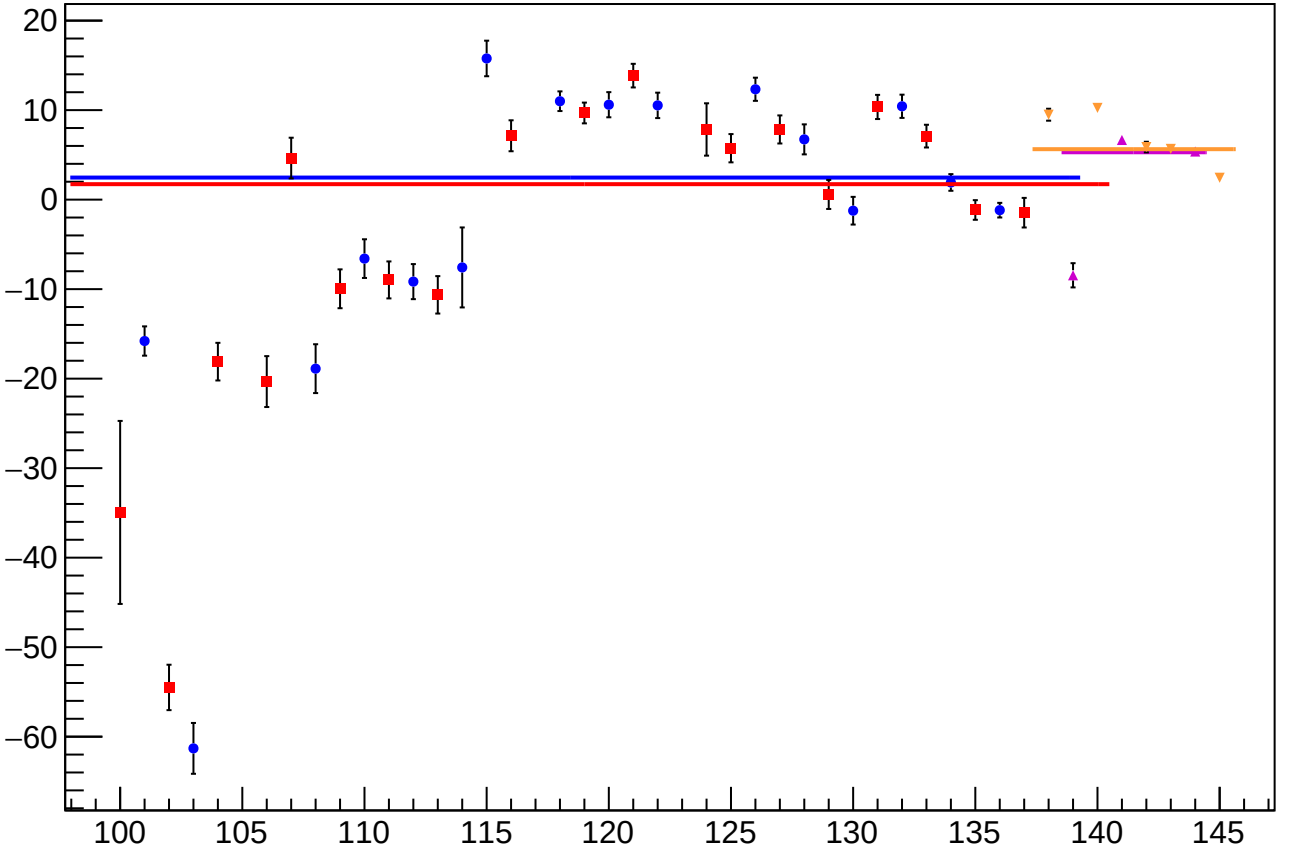
Right: -4.007+/-0.248 $\chi^2$/NDF: 555.8/34

In: -6.379+/-0.235 $\chi^2$/NDF:353.3/18

Out: -8.792+/-0.210 $\chi^2$/NDF:1385.9/23

All: -7.723+/-0.156 $\chi^2$/NDF: 1797.9/42

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: 5.637+/-0.206 $\chi^2$/NDF:232.5/4

Right Out: 1.728+/-0.386 $\chi^2$/NDF: 983.1/18

Left In: 5.293+/-0.255 $\chi^2$/NDF:112.4/2

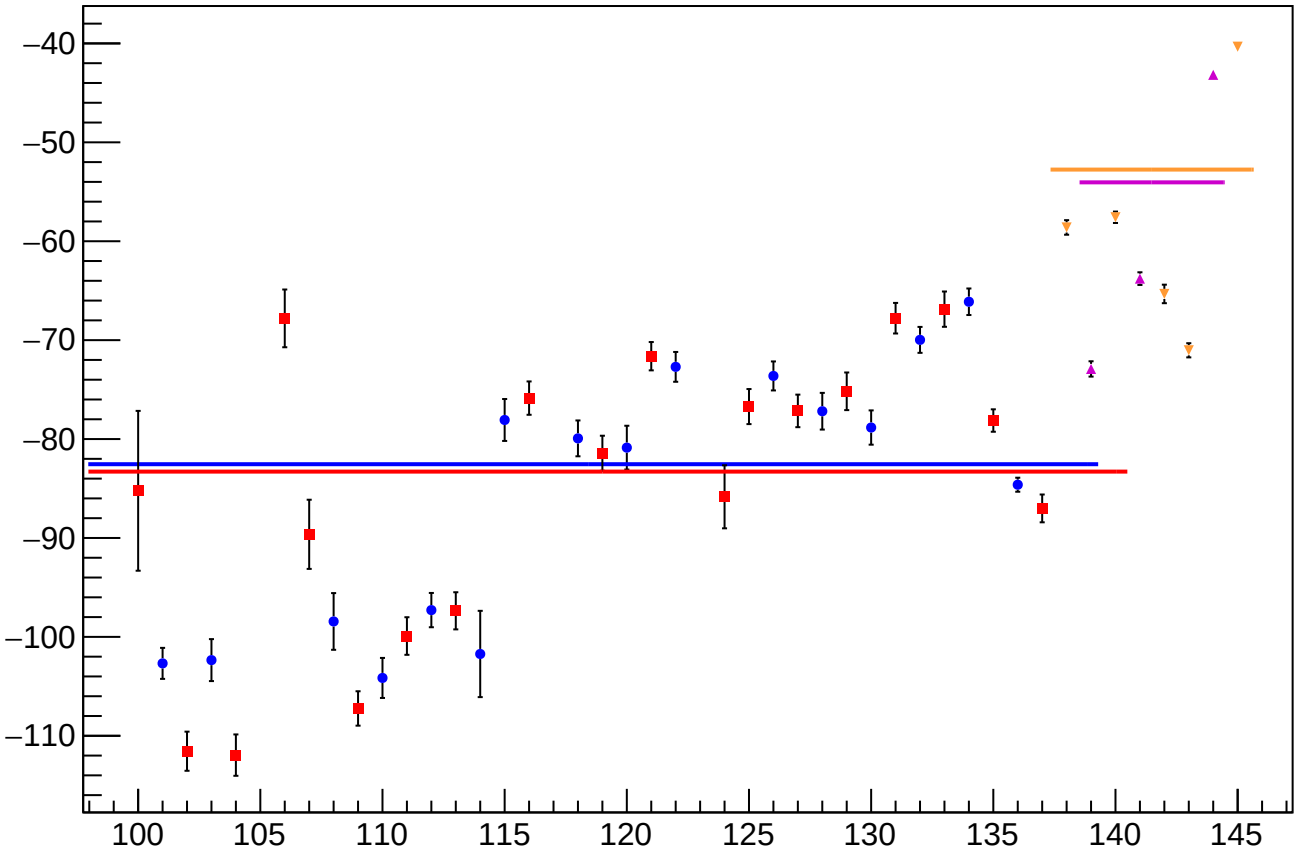
Left: 5.501+/-0.160 $\chi^2$/NDF: 346.1/7

Right: 2.126+/-0.262 $\chi^2$/NDF: 2031.8/34

In: 4.335+/-0.208 $\chi^2$/NDF:1200.7/18

Out: 4.769+/-0.182 $\chi^2$/NDF:1295.4/23

All: 4.580+/-0.137 $\chi^2$/NDF: 2498.6/42




Right In: -82.542+/-0.384 $\chi^2$/NDF: 838.8/15

Left Out: -52.756+/-0.267 $\chi^2$/NDF:1897.3/4

Right Out: -83.290+/-0.414 $\chi^2$/NDF: 1092.6/18

Left In: -54.046+/-0.330 $\chi^2$/NDF:1421.6/2

Left: -53.267+/-0.208 $\chi^2$/NDF: 3328.1/7

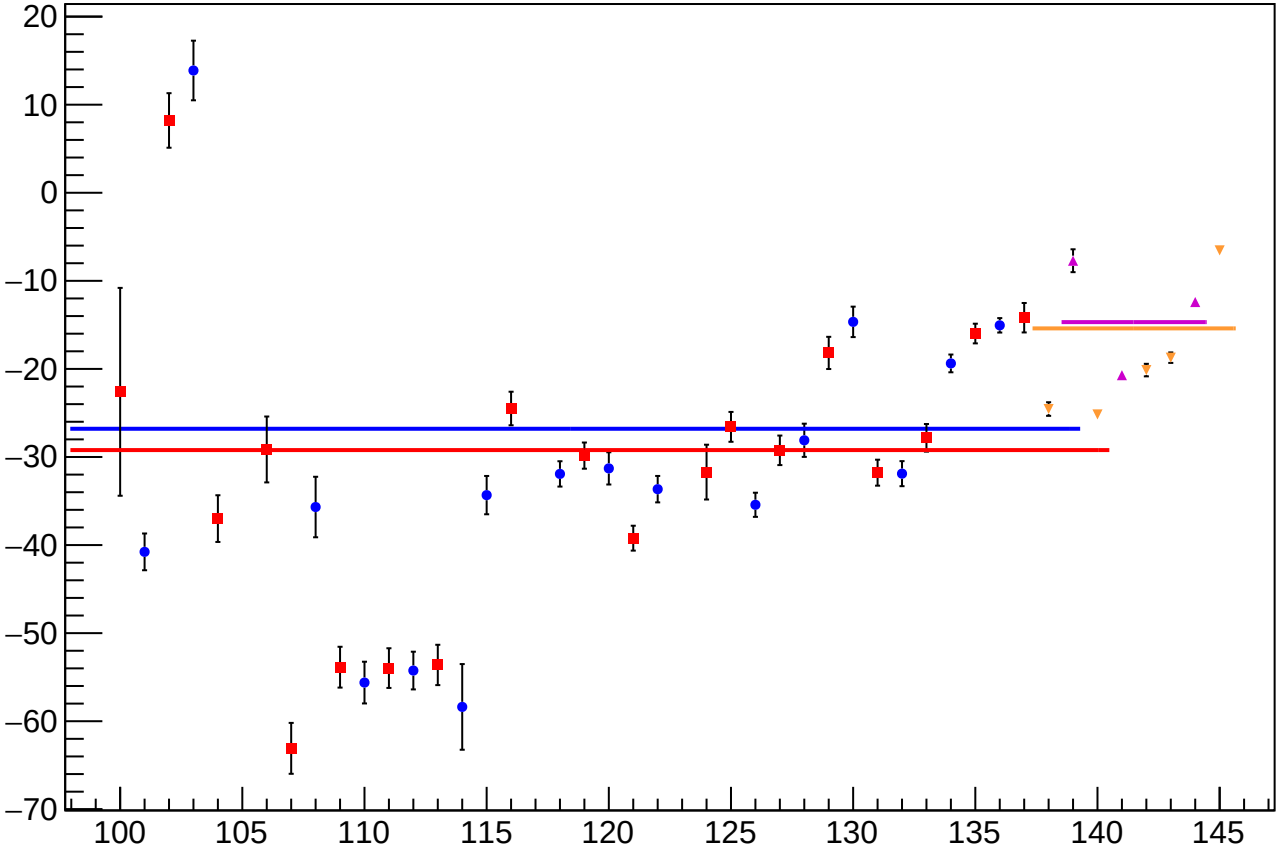
Right: -82.888+/-0.282 $\chi^2$/NDF: 1933.1/34

In: -66.153+/-0.250 $\chi^2$/NDF:5422.4/18

Out: -61.734+/-0.225 $\chi^2$/NDF:6825.4/23

All: -63.704+/-0.167 $\chi^2$/NDF: 12420.3/42

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: -15.399+/-0.242 $\chi^2$/NDF:1105.5/4

Right Out: -29.216+/-0.431 $\chi^2$/NDF: 960.7/18

Left In: -14.687+/-0.299 $\chi^2$/NDF:190.3/2

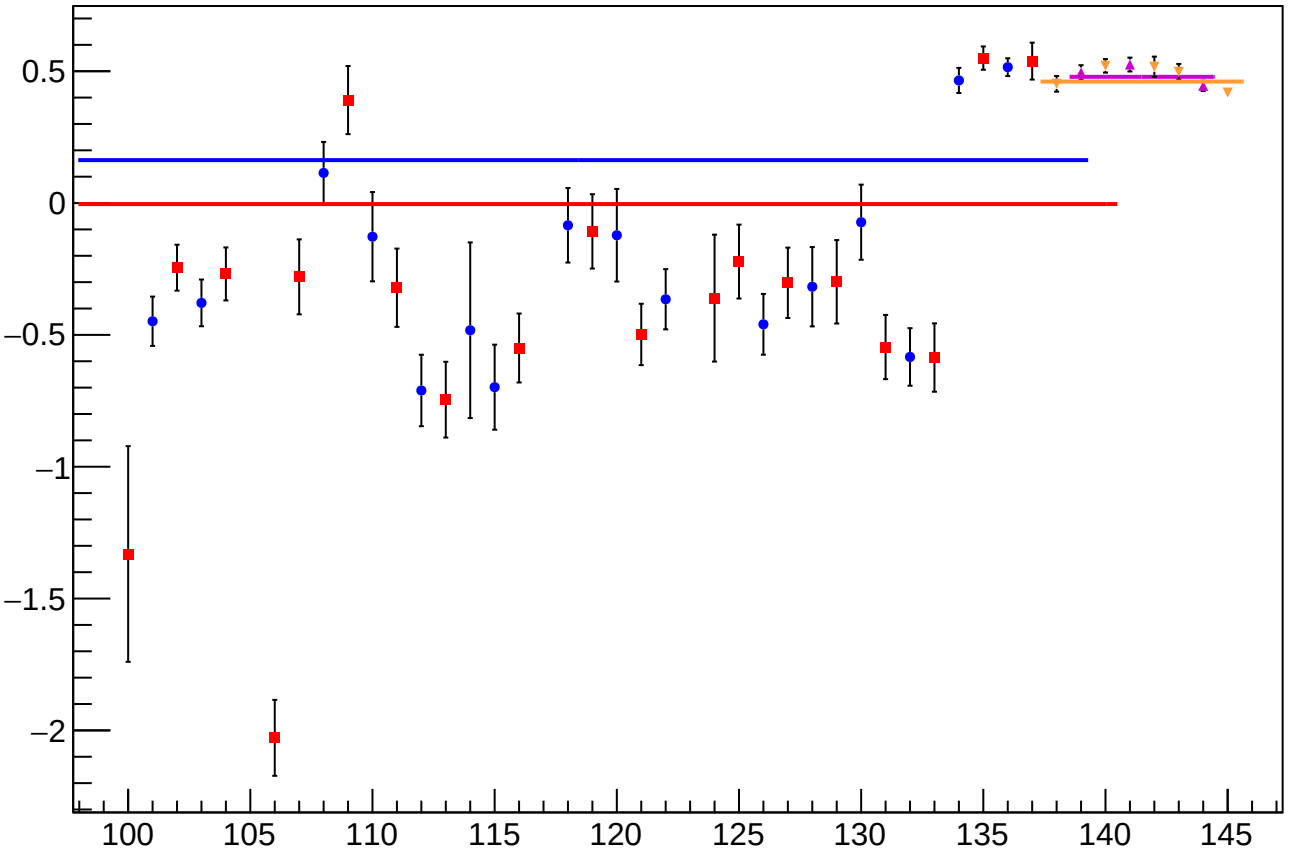
Left: -15.117+/-0.188 $\chi^2$/NDF: 1299.3/7

Right: -27.902+/-0.291 $\chi^2$/NDF: 1941.2/34

In: -19.081+/-0.238 $\chi^2$/NDF:1750.7/18

Out: -18.705+/-0.211 $\chi^2$/NDF:2847.7/23

All: -18.870+/-0.158 $\chi^2$/NDF: 4599.8/42




Right In: 0.163+/-0.021 $\chi^2$/NDF: 422.6/15

Left Out: 0.461+/-0.011 $\chi^2$/NDF:15.9/4

Right Out: -0.004+/-0.024 $\chi^2$/NDF: 573.3/18

Left In: 0.479+/-0.014 $\chi^2$/NDF:6.5/2

Left: 0.468+/-0.009 $\chi^2$/NDF: 23.4/7

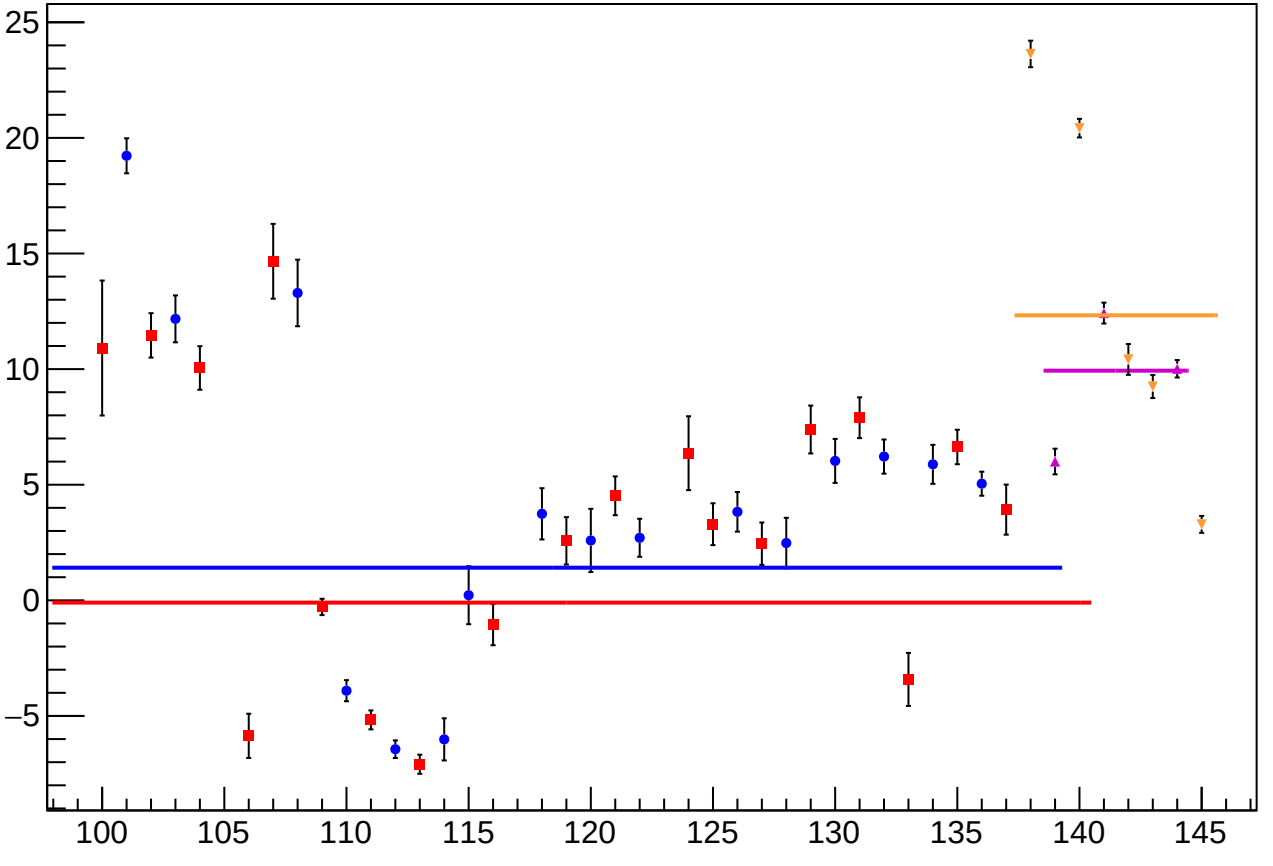
Right: 0.090+/-0.016 $\chi^2$/NDF: 1022.3/34

In: 0.387+/-0.012 $\chi^2$/NDF:583.8/18

Out: 0.382+/-0.010 $\chi^2$/NDF:890.4/23

All: 0.384+/-0.008 $\chi^2$/NDF: 1474.3/42

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 1.412+/-0.183 $\chi^2$/NDF: 1522.1/15

Left Out: 12.328+/-0.209 $\chi^2$/NDF:1450.2/4

Right Out: -0.098+/-0.167 $\chi^2$/NDF: 1147.2/18

Left In: 9.933+/-0.257 $\chi^2$/NDF:80.6/2

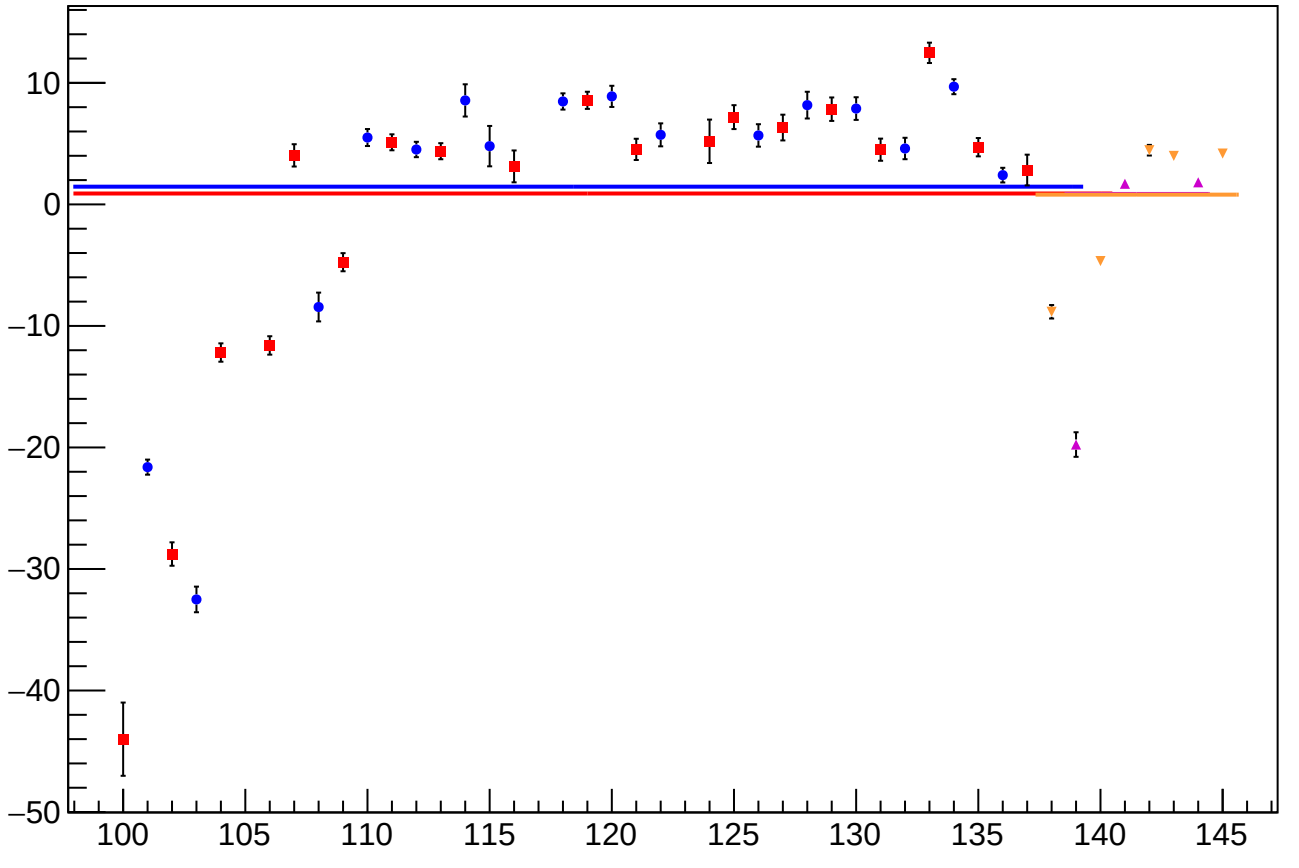
Left: 11.374+/-0.162 $\chi^2$/NDF: 1583.2/7

Right: 0.589+/-0.124 $\chi^2$/NDF: 2706.4/34

In: 4.286+/-0.149 $\chi^2$/NDF:2333.3/18

Out: 4.764+/-0.131 $\chi^2$/NDF:4753.6/23

All: 4.557+/-0.098 $\chi^2$/NDF: 7092.7/42




Right In: 1.459+/-0.203 $\chi^2$/NDF: 3080.3/15

Left Out: 0.803+/-0.166 $\chi^2$/NDF:846.5/4

Right Out: 0.896+/-0.202 $\chi^2$/NDF: 2377.1/18

Left In: 0.859+/-0.208 $\chi^2$/NDF:434.3/2

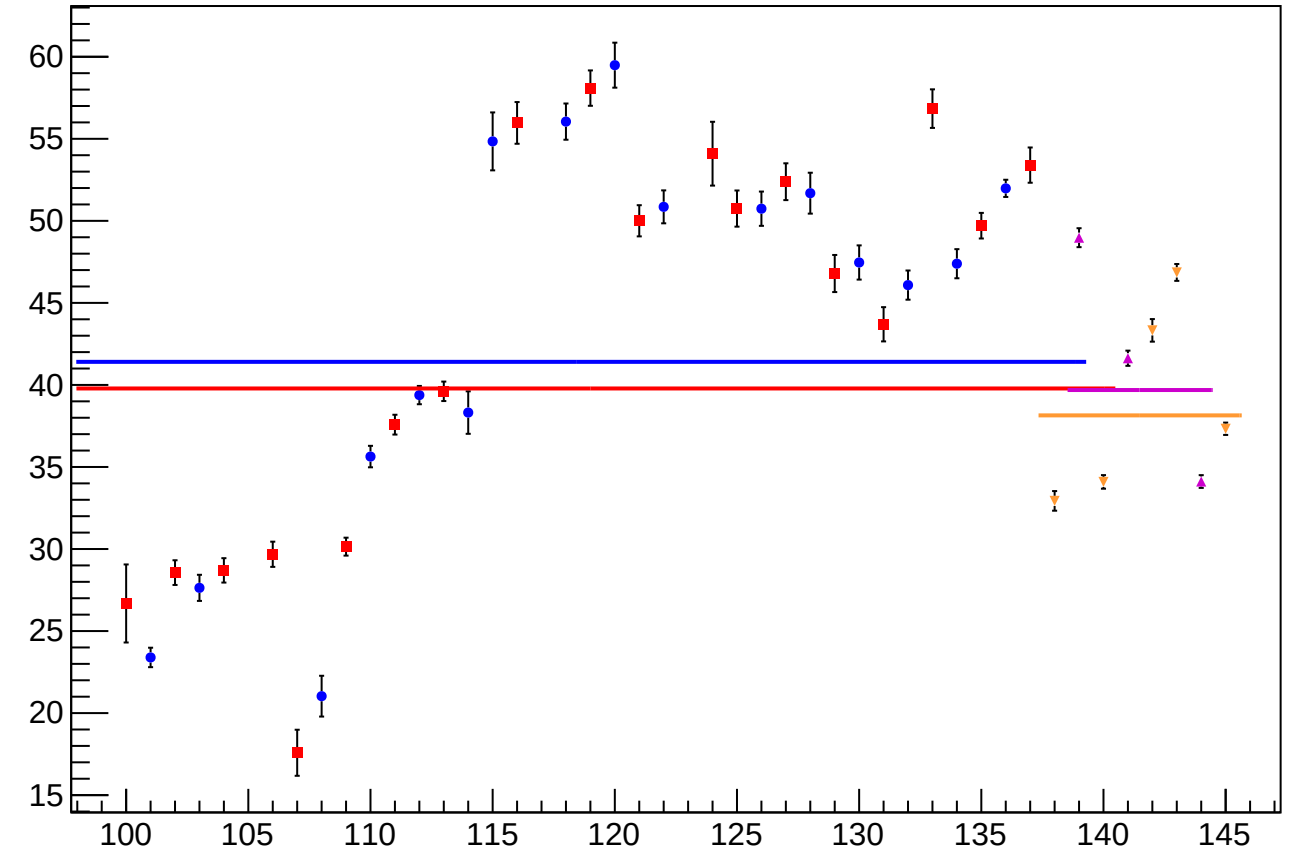
Left: 0.825+/-0.130 $\chi^2$/NDF: 1280.8/7

Right: 1.176+/-0.143 $\chi^2$/NDF: 5461.2/34

In: 1.165+/-0.145 $\chi^2$/NDF:3518.8/18

Out: 0.841+/-0.128 $\chi^2$/NDF:3223.7/23

All: 0.983+/-0.096 $\chi^2$/NDF: 6745.3/42




Right In: 41.407+/-0.211 $\chi^2$/NDF: 2746.0/15

Left Out: 38.144+/-0.215 $\chi^2$/NDF:521.0/4

Right Out: 39.784+/-0.203 $\chi^2$/NDF: 2653.8/18

Left In: 39.690+/-0.265 $\chi^2$/NDF:482.1/2

Left: 38.759+/-0.167 $\chi^2$/NDF: 1023.7/7

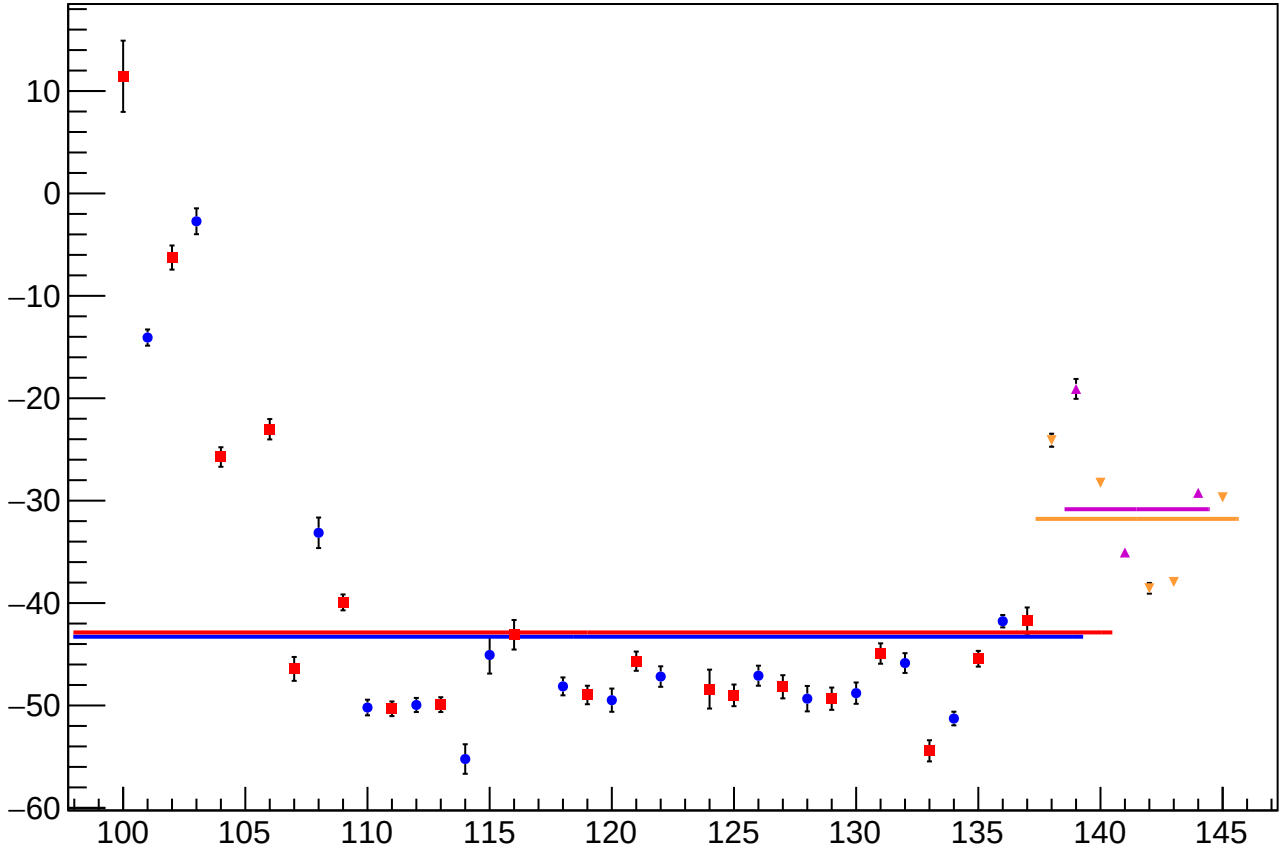
Right: 40.565+/-0.146 $\chi^2$/NDF: 5430.6/34

In: 40.741+/-0.165 $\chi^2$/NDF:3253.9/18

Out: 39.012+/-0.148 $\chi^2$/NDF:3205.6/23

All: 39.782+/-0.110 $\chi^2$/NDF: 6520.5/42

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -43.285+/-0.229 $\chi^2$/NDF: 2985.2/15

Left Out: -31.779+/-0.195 $\chi^2$/NDF:635.9/4

Right Out: -42.867+/-0.229 $\chi^2$/NDF: 2454.2/18

Left In: -30.836+/-0.243 $\chi^2$/NDF:287.0/2

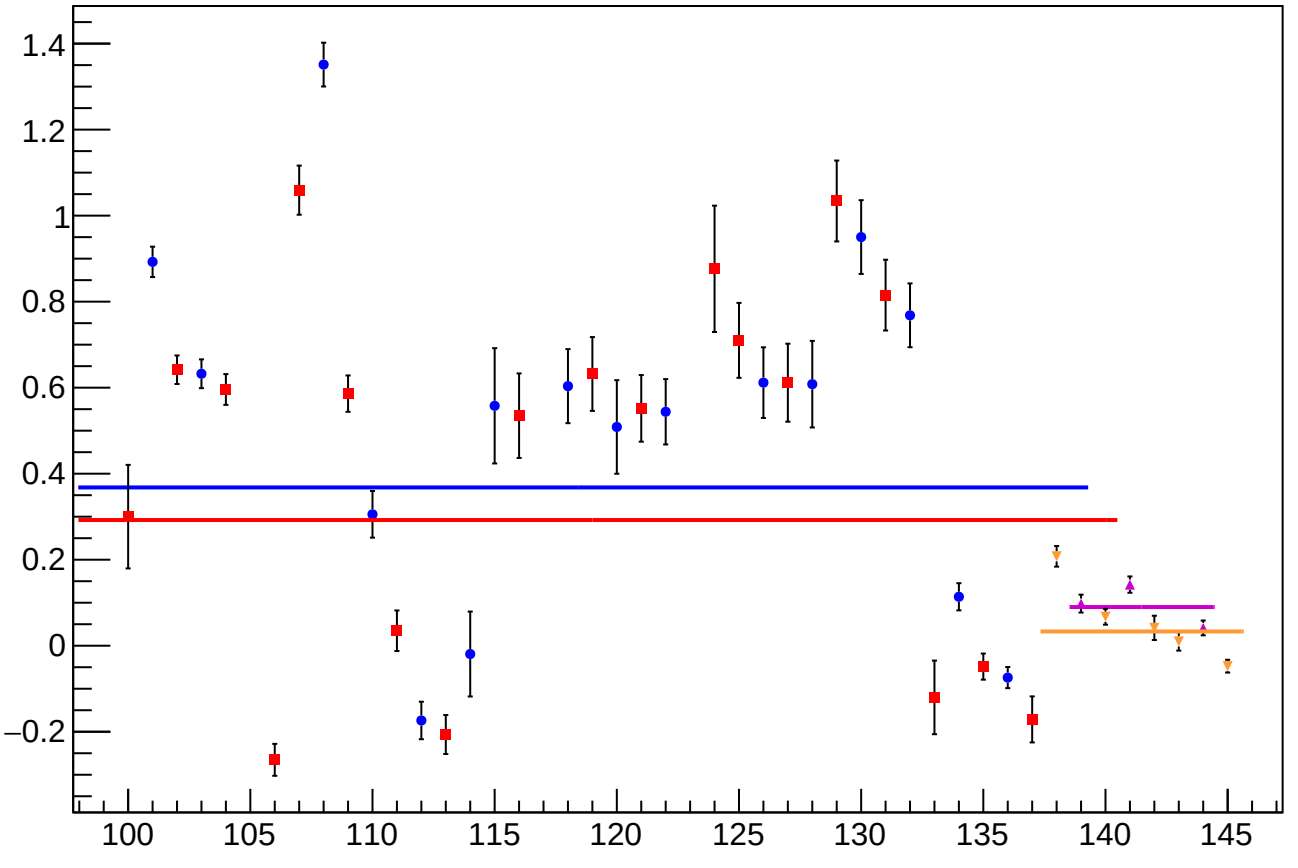
Left: -31.408+/-0.152 $\chi^2$/NDF: 932.0/7

Right: -43.076+/-0.162 $\chi^2$/NDF: 5441.1/34

In: -37.411+/-0.167 $\chi^2$/NDF:4662.7/18

Out: -36.443+/-0.149 $\chi^2$/NDF:4448.1/23

All: -36.872+/-0.111 $\chi^2$/NDF: 9129.6/42




Right In: 0.368+/-0.012 $\chi^2$/NDF: 1320.9/15

Left Out: 0.033+/-0.009 $\chi^2$/NDF:86.9/4

Right Out: 0.292+/-0.012 $\chi^2$/NDF: 1199.2/18

Left In: 0.090+/-0.011 $\chi^2$/NDF:15.7/2

Left: 0.056+/-0.007 $\chi^2$/NDF: 118.9/7

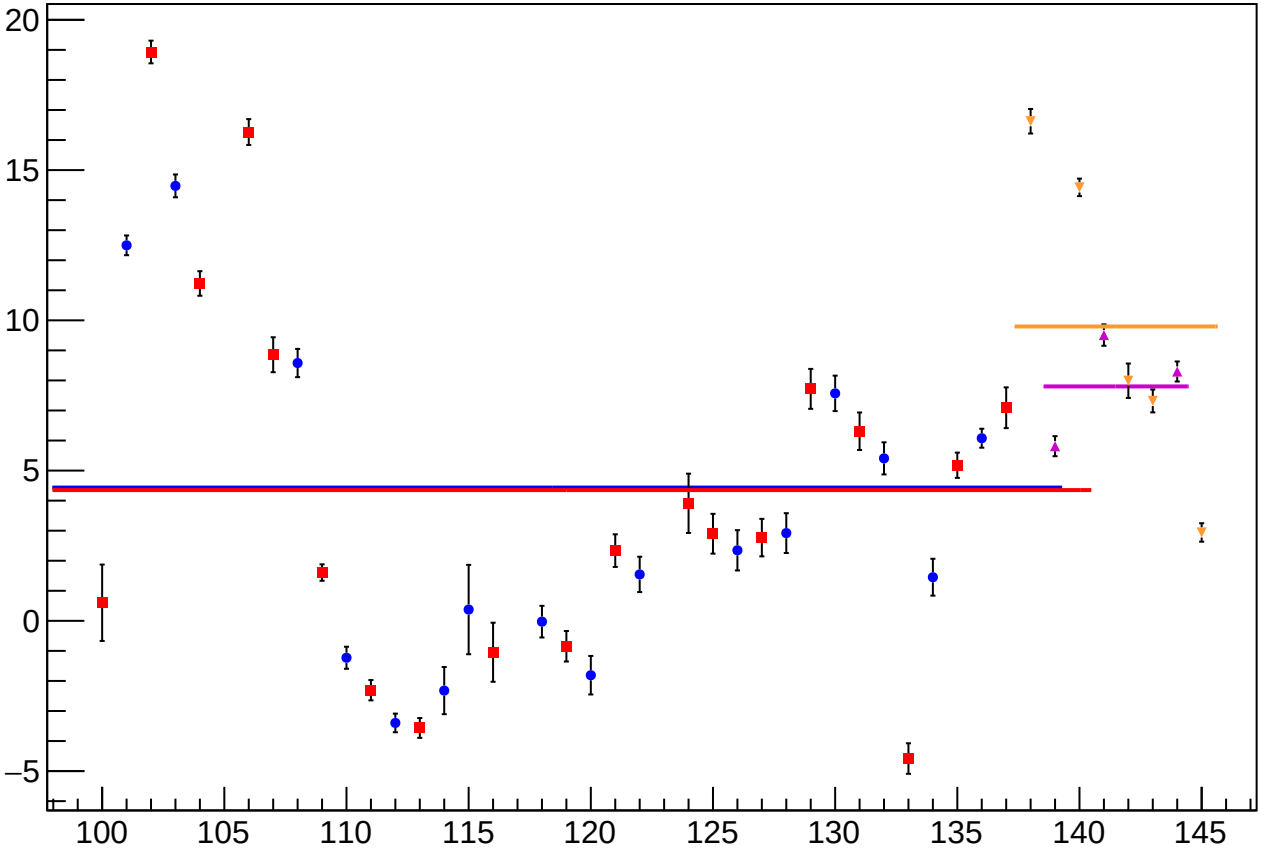
Right: 0.330+/-0.009 $\chi^2$/NDF: 2539.6/34

In: 0.213+/-0.008 $\chi^2$/NDF:1626.4/18

Out: 0.124+/-0.007 $\chi^2$/NDF:1583.5/23

All: 0.163+/-0.005 $\chi^2$/NDF: 3277.3/42

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 4.435+/-0.117 $\chi^2$/NDF: 2622.0/15

Left Out: 9.796+/-0.162 $\chi^2$/NDF:1082.1/4

Right Out: 4.351+/-0.109 $\chi^2$/NDF: 4205.3/18

Left In: 7.801+/-0.197 $\chi^2$/NDF:60.8/2

Left: 8.992+/-0.125 $\chi^2$/NDF: 1204.3/7

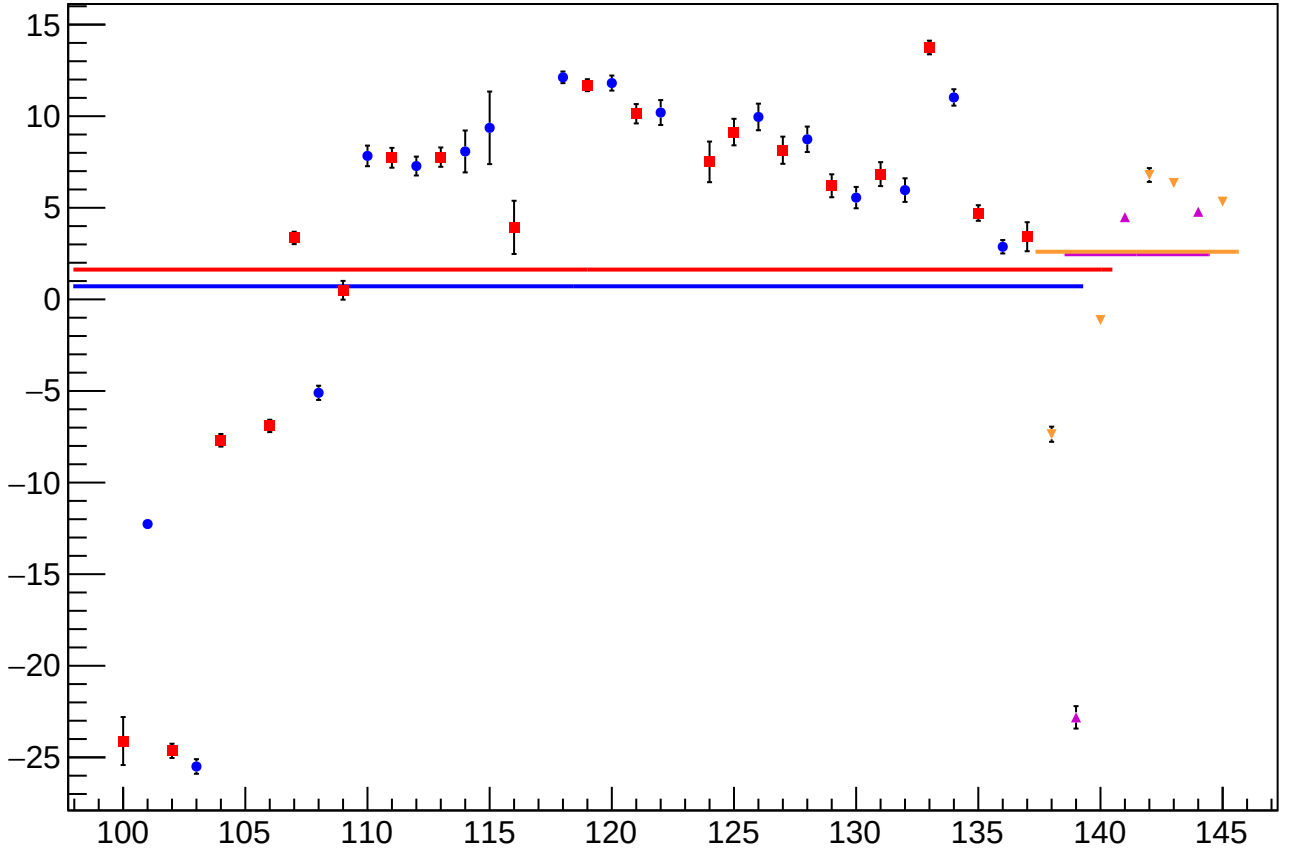
Right: 4.390+/-0.080 $\chi^2$/NDF: 6827.6/34

In: 5.314+/-0.101 $\chi^2$/NDF:2899.2/18

Out: 6.057+/-0.090 $\chi^2$/NDF:6067.8/23

All: 5.725+/-0.067 $\chi^2$/NDF: 8997.2/42

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: 2.601+/-0.131 $\chi^2$/NDF:1234.5/4

Right Out: 1.627+/-0.111 $\chi^2$/NDF: 9255.5/18

Left In: 2.464+/-0.172 $\chi^2$/NDF:1855.1/2

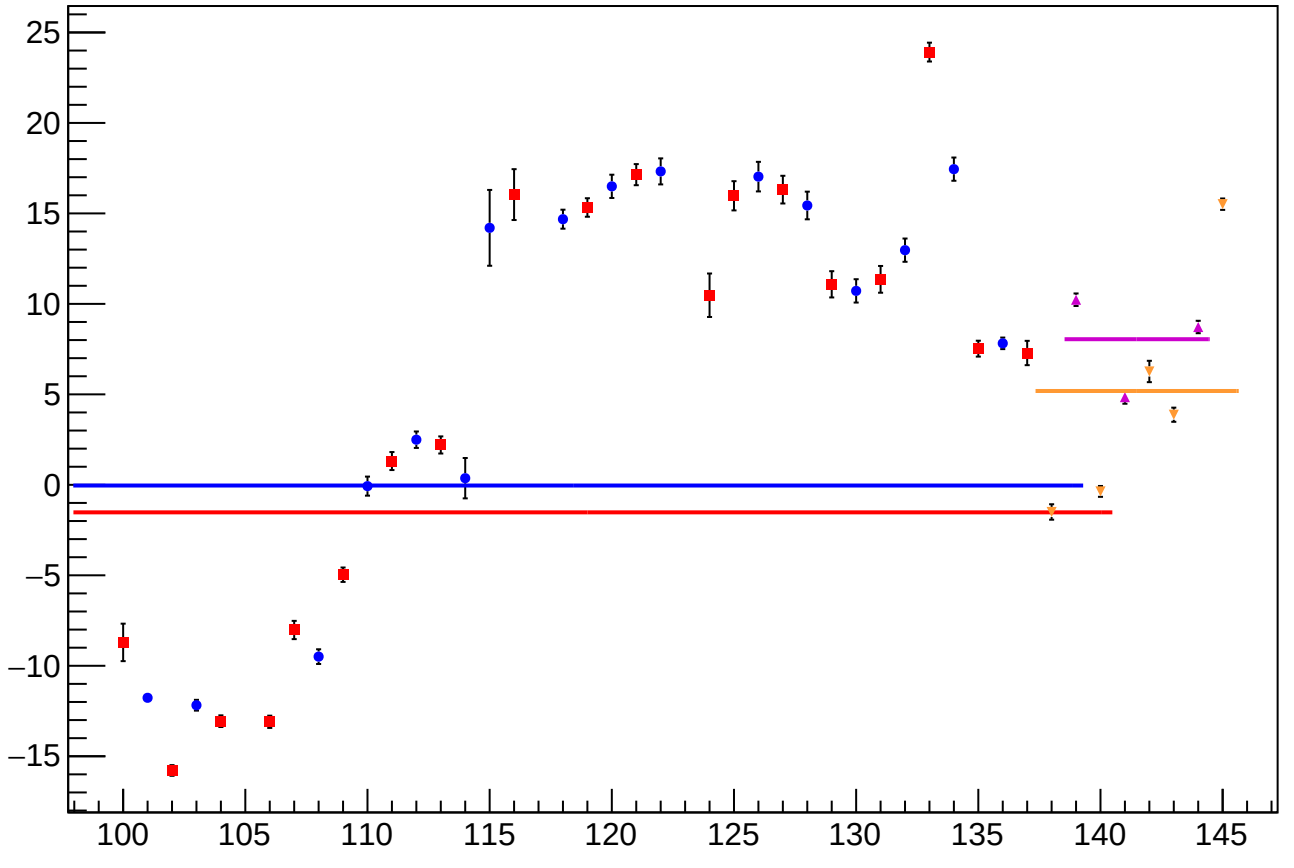
Left: 2.551+/-0.104 $\chi^2$/NDF: 3090.0/7

Right: 1.190+/-0.080 $\chi^2$/NDF: 19741.8/34

In: 1.259+/-0.096 $\chi^2$/NDF:12379.9/18

Out: 2.033+/-0.085 $\chi^2$/NDF:10522.1/23

All: 1.695+/-0.064 $\chi^2$/NDF: 22938.5/42




Right In: -0.038+/-0.119 $\chi^2$/NDF: 9274.3/15

Left Out: 5.186+/-0.166 $\chi^2$/NDF:1675.6/4

Right Out: -1.521+/-0.115 $\chi^2$/NDF: 12130.2/18

Left In: 8.048+/-0.203 $\chi^2$/NDF:119.9/2

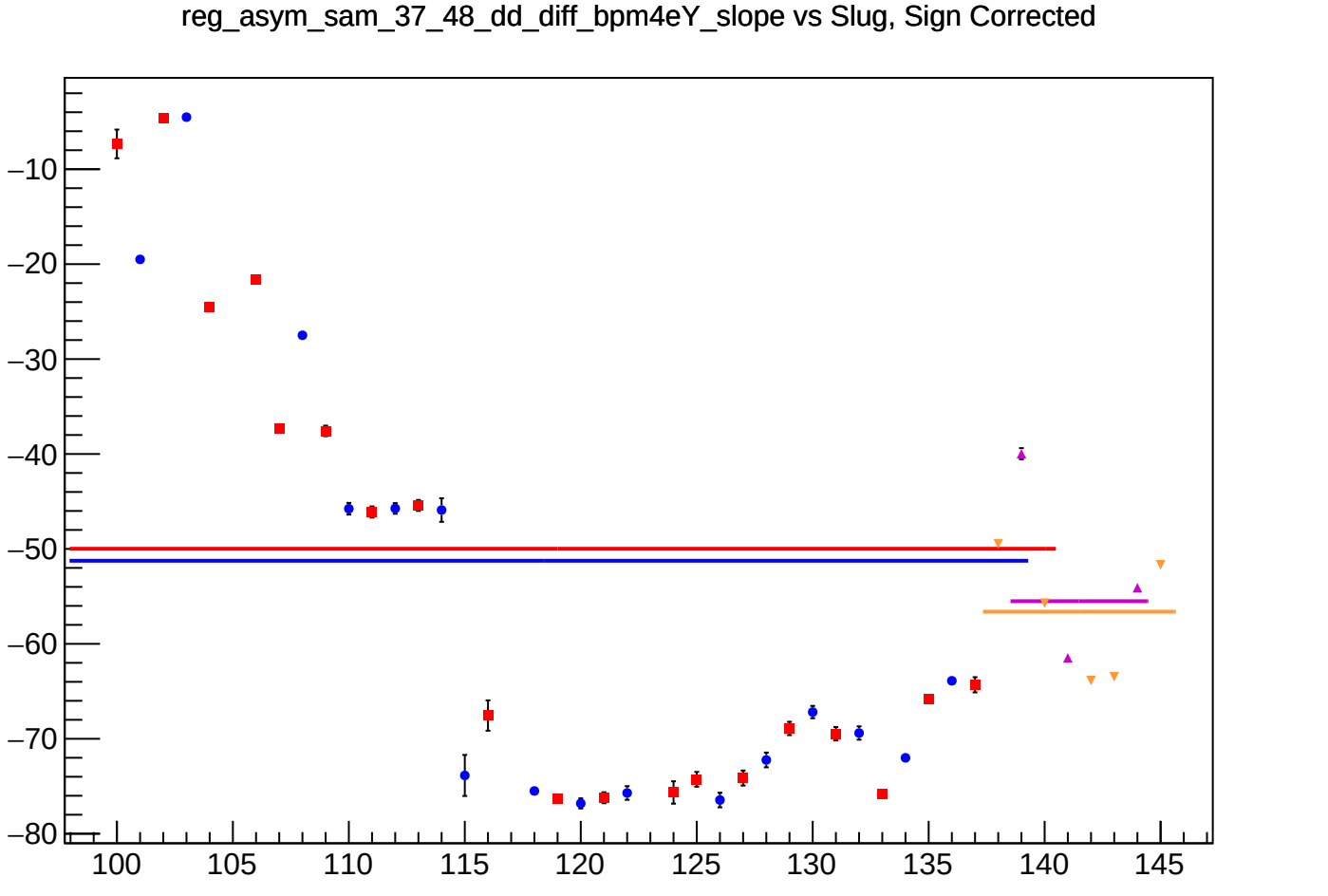
Left: 6.336+/-0.129 $\chi^2$/NDF: 1914.3/7

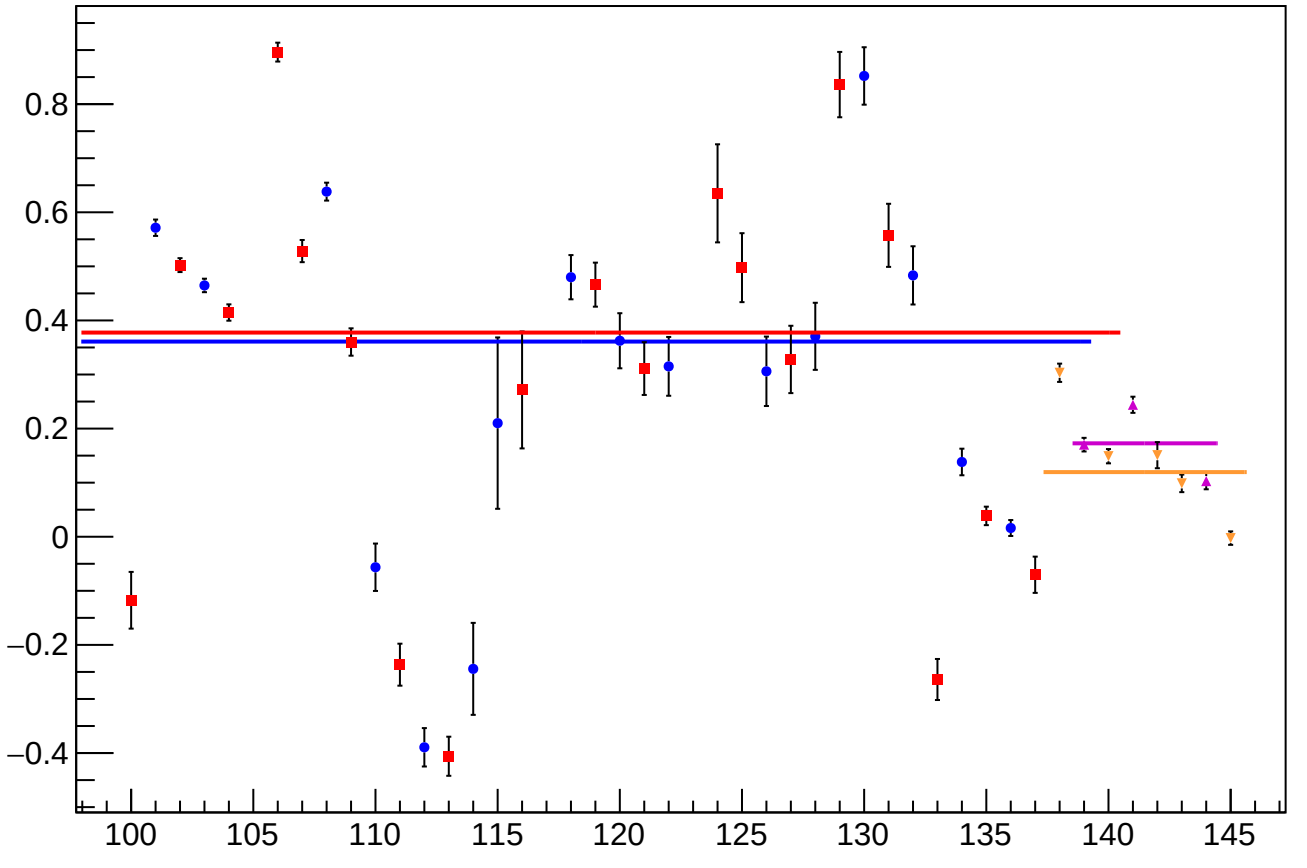
Right: -0.807+/-0.083 $\chi^2$/NDF: 21484.6/34

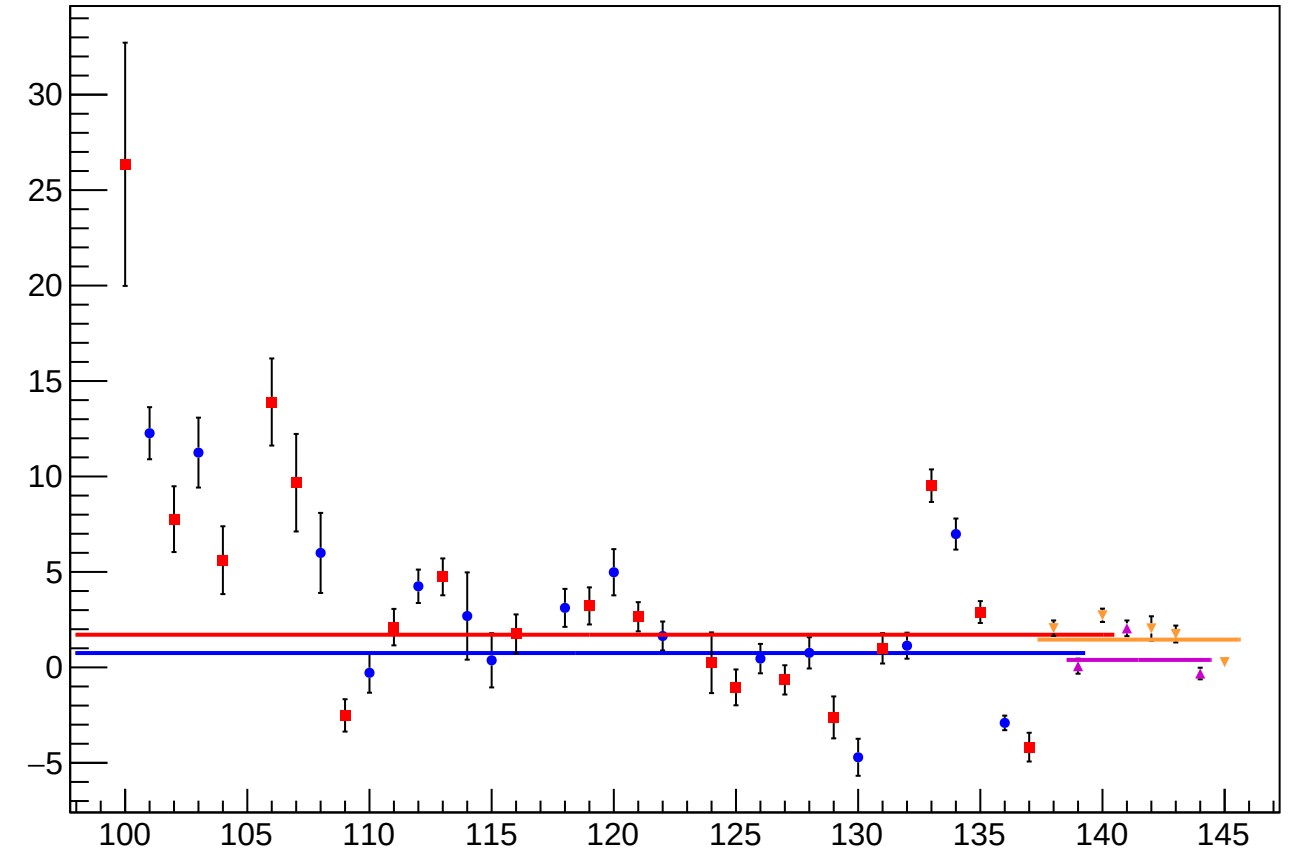
In: 2.039+/-0.103 $\chi^2$/NDF:10572.8/18

Out: 0.648+/-0.095 $\chi^2$/NDF:14904.5/23

All: 1.286+/-0.070 $\chi^2$/NDF: 25576.1/42


reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
−10
−20
−30
−40
−50
−60
−70
−80
100
105
110
115
120
125
130
135
140
145
Right In: -51.246+/-0.136 χ2/NDF: 33765.2/15
Left Out: -56.613+/-0.154 χ2/NDF:1229.8/4
Right Out: -49.983+/-0.131 χ2/NDF: 33892.5/18
Left In: -55.506+/-0.199 χ2/NDF:1092.6/2
Left: -56.199+/-0.122 χ2/NDF: 2341.7/7
Right: -50.590+/-0.094 χ2/NDF: 67702.6/34
In: -52.598+/-0.112 χ2/NDF:35170.3/18
Out: -52.759+/-0.100 χ2/NDF:36200.2/23
All: -52.688+/-0.074 χ2/NDF: 71371.6/42


reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected
0.8
0.6
0.4
0.2
0
−0.2
−0.4
100
105
110
115
120
125
130
135
140
145
Right In: 0.361+/-0.006 χ²/NDF: 1860.0/15
Left Out: 0.120+/-0.007 χ²/NDF:222.3/4
Right Out: 0.378+/-0.006 χ²/NDF: 2790.5/18
Left In: 0.173+/-0.008 χ²/NDF:44.1/2
Left: 0.142+/-0.005 χ²/NDF: 291.4/7
Right: 0.370+/-0.004 χ²/NDF: 4654.1/34
In: 0.289+/-0.005 χ²/NDF:2236.7/18
Out: 0.264+/-0.005 χ²/NDF:3799.7/23
All: 0.275+/-0.003 χ²/NDF: 6050.8/42




Right In: 0.752+/-0.212 $\chi^2$/NDF: 330.1/15

Left Out: 1.454+/-0.166 $\chi^2$/NDF:36.8/4

Right Out: 1.710+/-0.223 $\chi^2$/NDF: 293.8/18

Left In: 0.392+/-0.208 $\chi^2$/NDF:22.4/2

Left: 1.041+/-0.130 $\chi^2$/NDF: 75.1/7

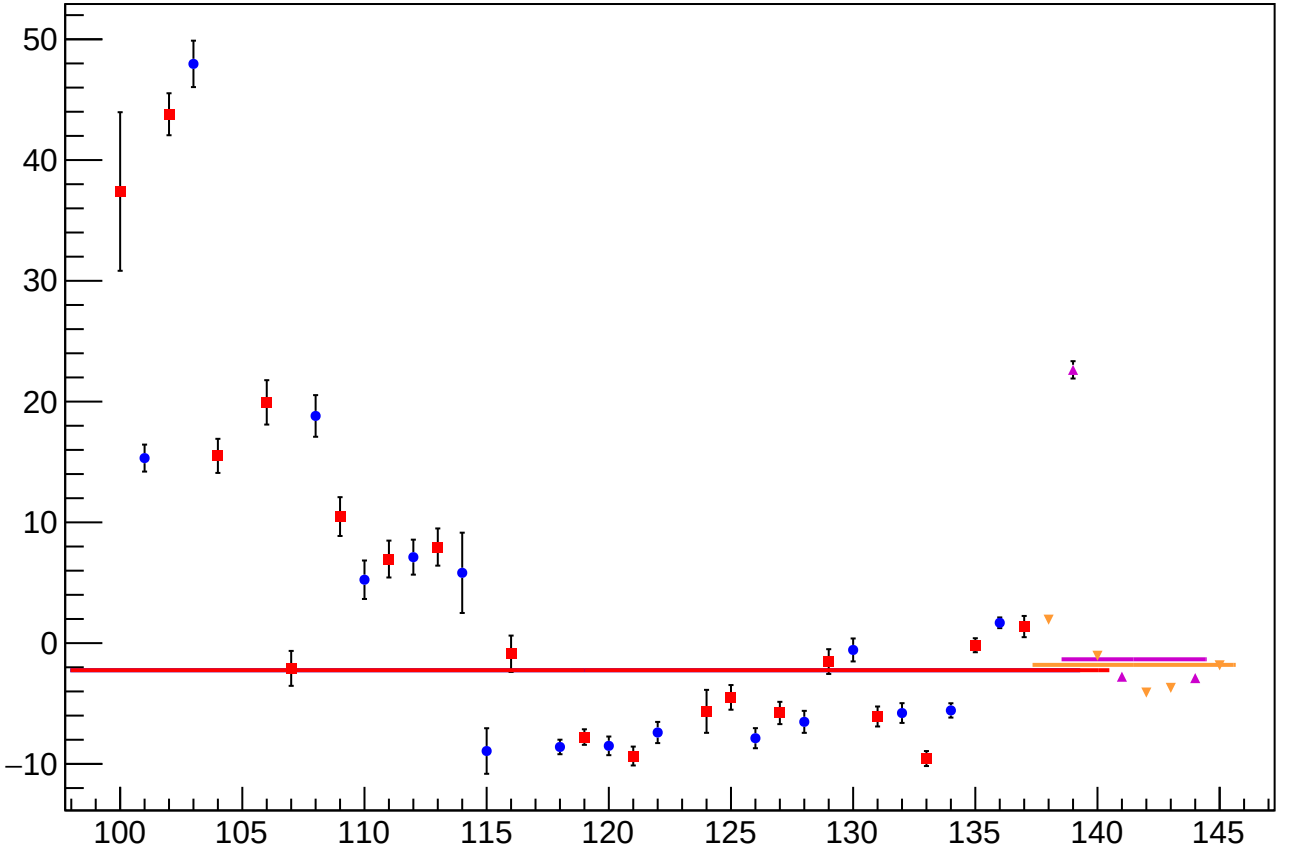
Right: 1.208+/-0.154 $\chi^2$/NDF: 633.6/34

In: 0.568+/-0.149 $\chi^2$/NDF:353.9/18

Out: 1.546+/-0.133 $\chi^2$/NDF:331.5/23

All: 1.110+/-0.099 $\chi^2$/NDF: 709.4/42

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -2.245+/-0.215 $\chi^2$/NDF: 1572.5/15

Left Out: -1.799+/-0.134 $\chi^2$/NDF:162.1/4

Right Out: -2.242+/-0.229 $\chi^2$/NDF: 1555.6/18

Left In: -1.338+/-0.175 $\chi^2$/NDF:1184.7/2

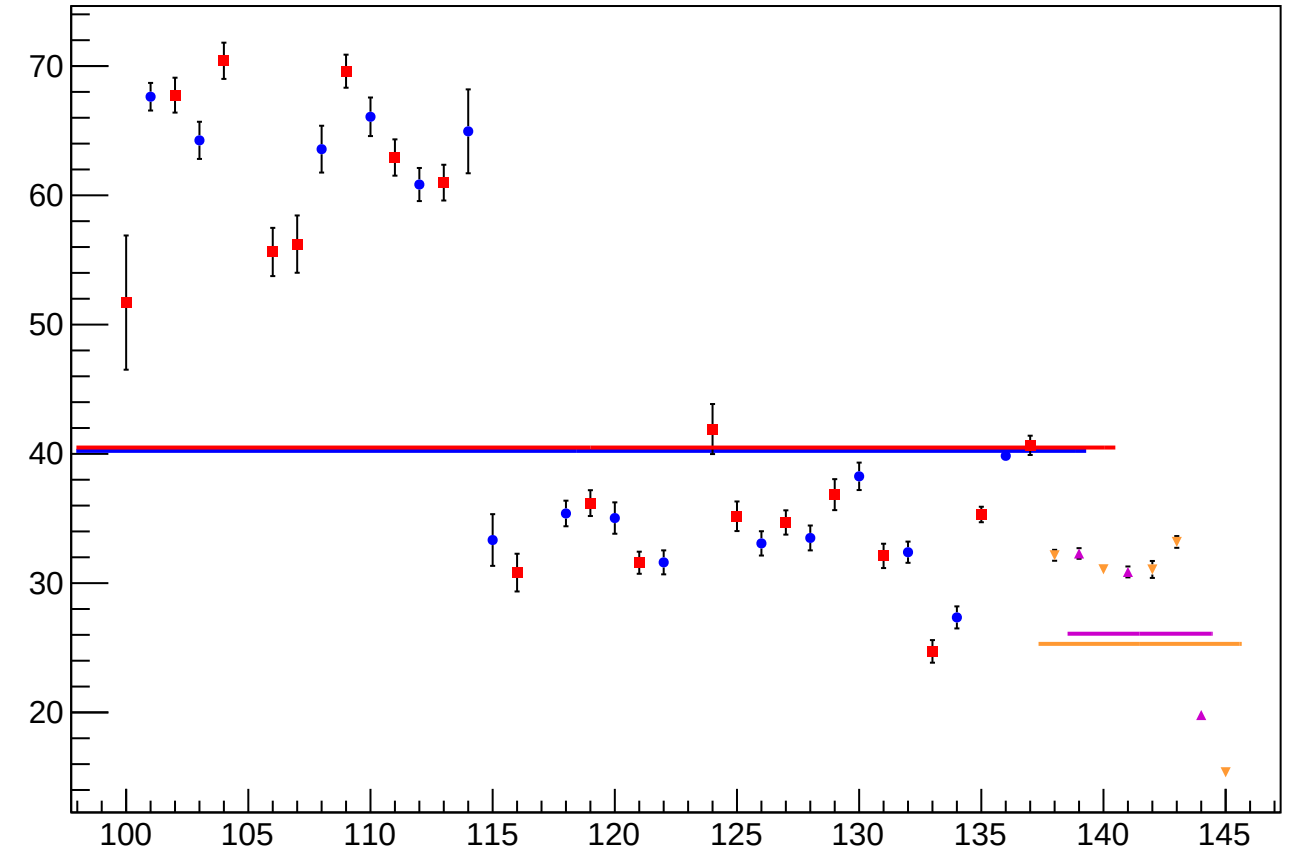
Left: -1.628+/-0.107 $\chi^2$/NDF: 1351.2/7

Right: -2.244+/-0.157 $\chi^2$/NDF: 3128.1/34

In: -1.699+/-0.136 $\chi^2$/NDF:2767.9/18

Out: -1.913+/-0.116 $\chi^2$/NDF:1720.5/23

All: -1.823+/-0.088 $\chi^2$/NDF: 4489.9/42




Right In: 40.232+/-0.231 $\chi^2$/NDF: 2291.1/15

Left Out: 25.302+/-0.171 $\chi^2$/NDF:2235.1/4

Right Out: 40.490+/-0.250 $\chi^2$/NDF: 2698.0/18

Left In: 26.087+/-0.215 $\chi^2$/NDF:757.4/2

Left: 25.608+/-0.134 $\chi^2$/NDF: 3000.7/7

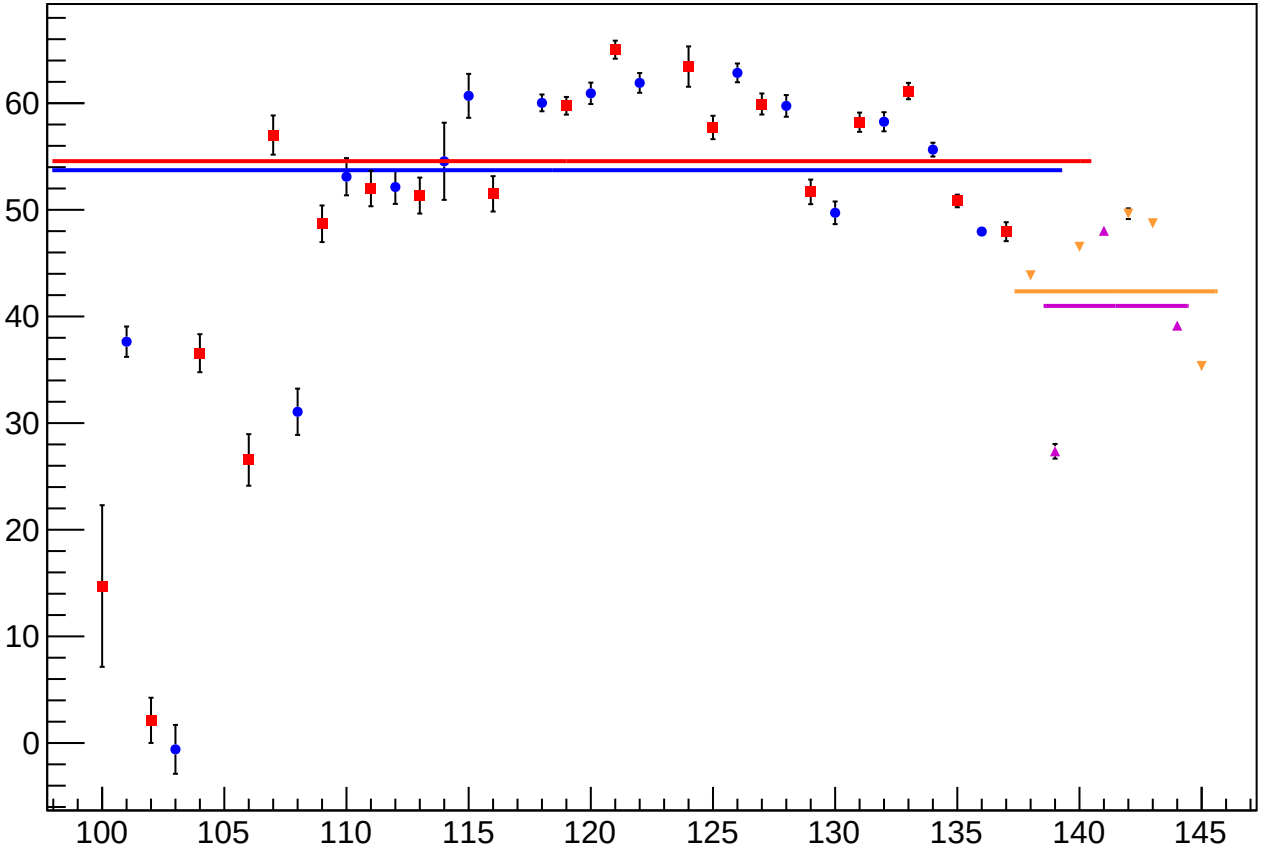
Right: 40.351+/-0.170 $\chi^2$/NDF: 4989.7/34

In: 32.633+/-0.157 $\chi^2$/NDF:5055.2/18

Out: 30.147+/-0.141 $\chi^2$/NDF:7437.8/23

All: 31.257+/-0.105 $\chi^2$/NDF: 12631.0/42

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: 42.357+/-0.157 $\chi^2$/NDF:1457.7/4

Right Out: 54.565+/-0.256 $\chi^2$/NDF: 1342.6/18

Left In: 40.992+/-0.203 $\chi^2$/NDF:828.8/2

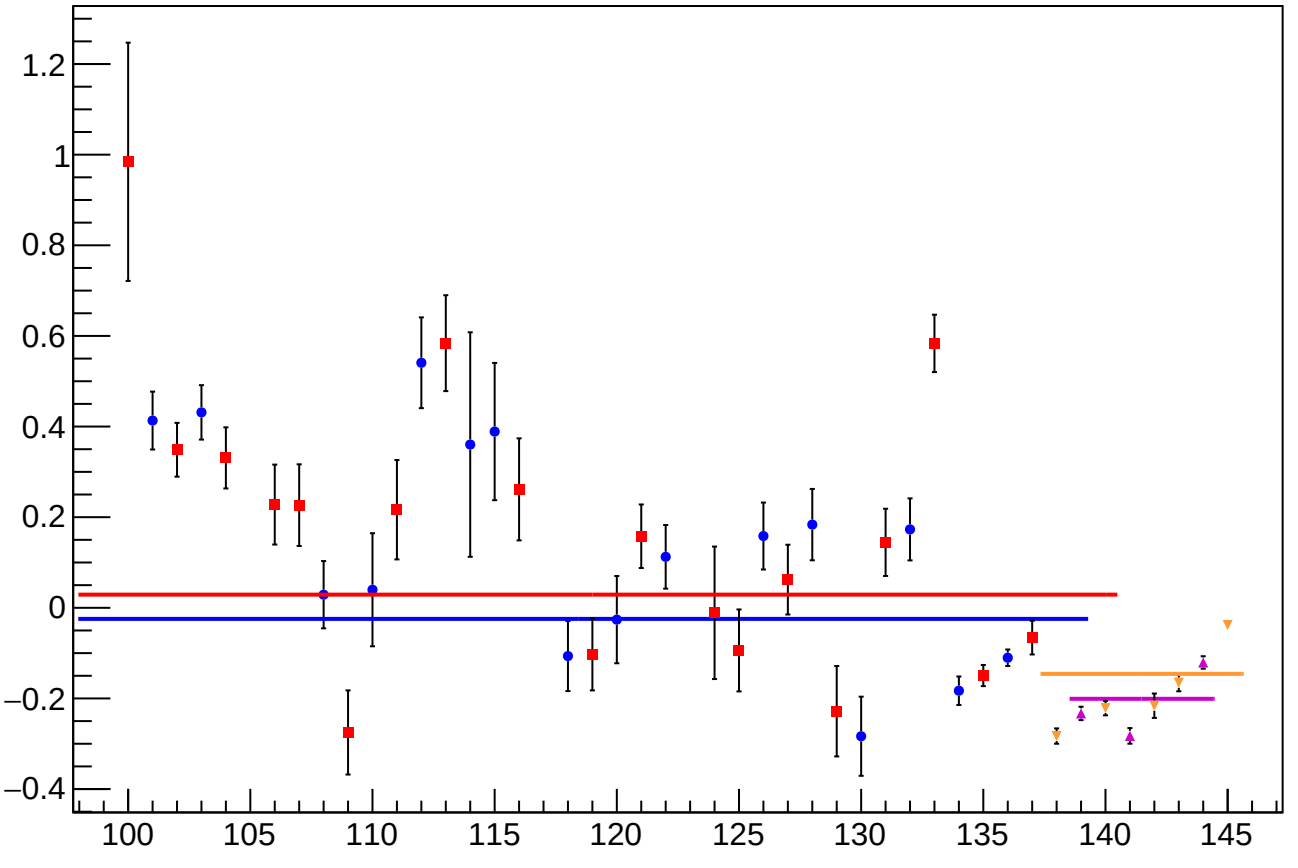
Left: 41.846+/-0.124 $\chi^2$/NDF: 2314.8/7

Right: 54.111+/-0.175 $\chi^2$/NDF: 2711.2/34

In: 46.325+/-0.155 $\chi^2$/NDF:3837.5/18

Out: 45.695+/-0.134 $\chi^2$/NDF:4451.0/23

All: 45.965+/-0.101 $\chi^2$/NDF: 8298.0/42




Right In: -0.024+/-0.013 $\chi^2$/NDF: 229.7/15

Left Out: -0.146+/-0.007 $\chi^2$/NDF:196.4/4

Right Out: 0.029+/-0.014 $\chi^2$/NDF: 276.4/18

Left In: -0.201+/-0.009 $\chi^2$/NDF:61.1/2

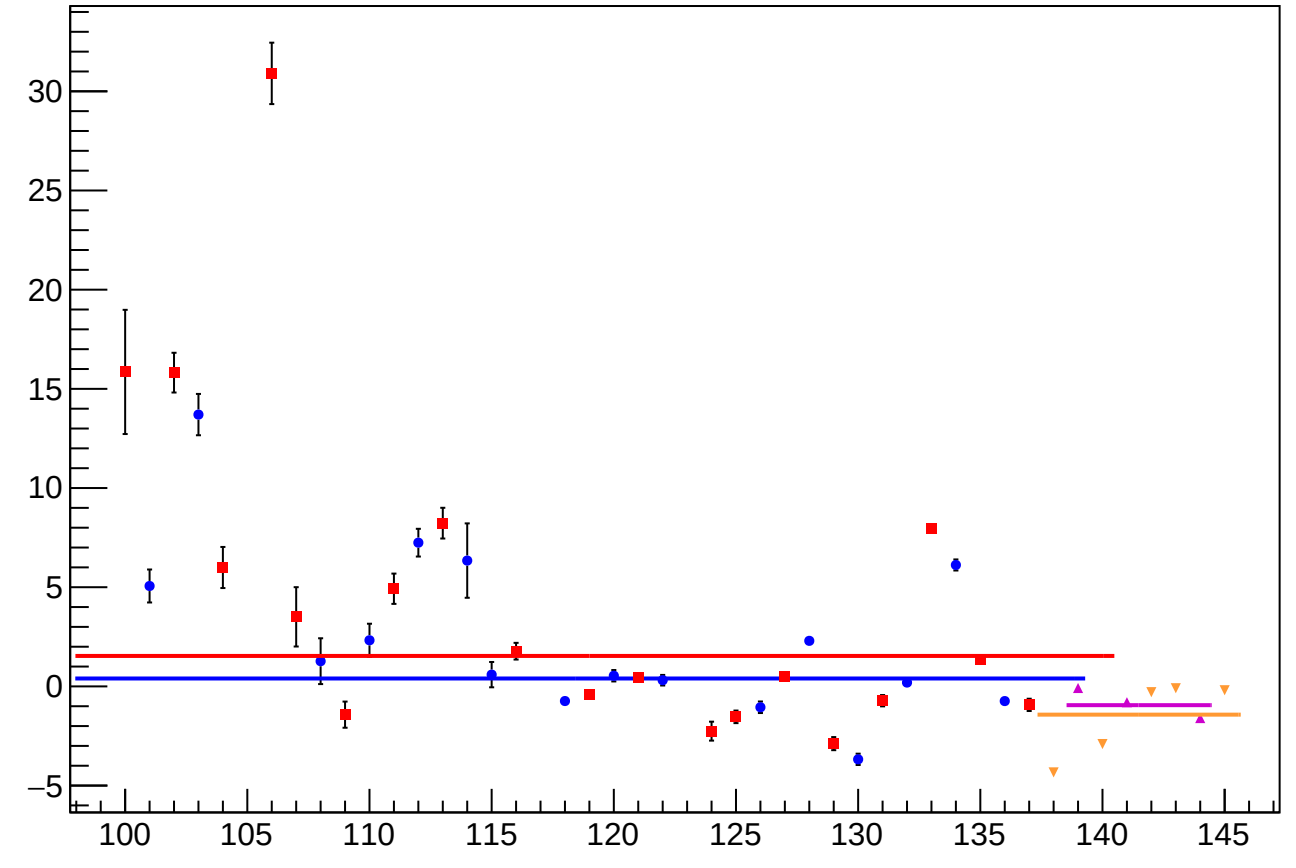
Left: -0.168+/-0.005 $\chi^2$/NDF: 281.8/7

Right: -0.001+/-0.010 $\chi^2$/NDF: 513.9/34

In: -0.145+/-0.007 $\chi^2$/NDF:420.7/18

Out: -0.112+/-0.006 $\chi^2$/NDF:594.0/23

All: -0.126+/-0.005 $\chi^2$/NDF: 1027.0/42




Right In: 0.398+/-0.077 $\chi^2$/NDF: 1097.4/15

Left Out: -1.424+/-0.062 $\chi^2$/NDF:687.4/4

Right Out: 1.536+/-0.078 $\chi^2$/NDF: 2411.2/18

Left In: -0.946+/-0.074 $\chi^2$/NDF:74.5/2

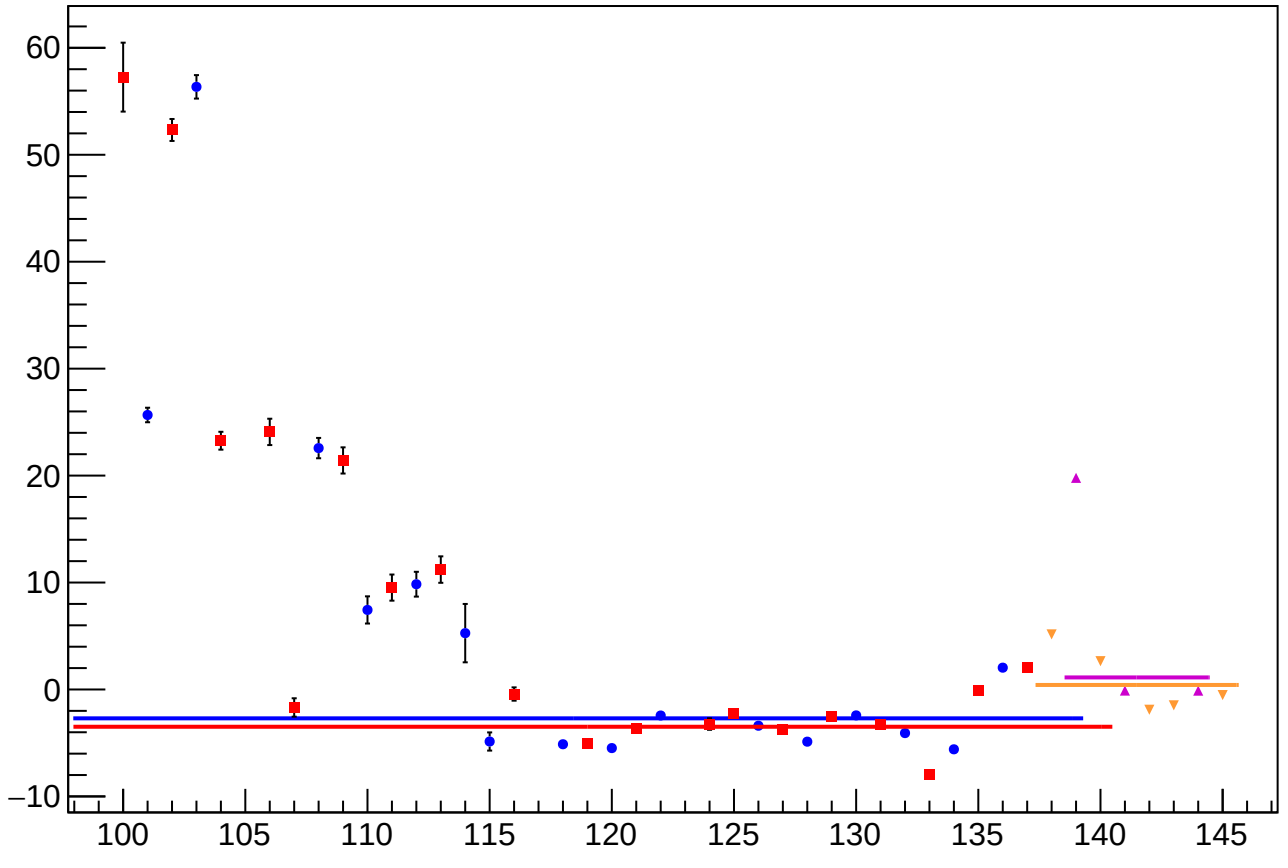
Left: -1.230+/-0.047 $\chi^2$/NDF: 786.4/7

Right: 0.959+/-0.055 $\chi^2$/NDF: 3615.8/34

In: -0.297+/-0.054 $\chi^2$/NDF:1329.2/18

Out: -0.290+/-0.048 $\chi^2$/NDF:3982.5/23

All: -0.293+/-0.036 $\chi^2$/NDF: 5311.8/42




Right In: -2.699+/-0.071 $\chi^2$/NDF: 7103.8/15

Left Out: 0.423+/-0.050 $\chi^2$/NDF:1856.3/4

Right Out: -3.486+/-0.071 $\chi^2$/NDF: 7159.9/18

Left In: 1.126+/-0.063 $\chi^2$/NDF:5739.6/2

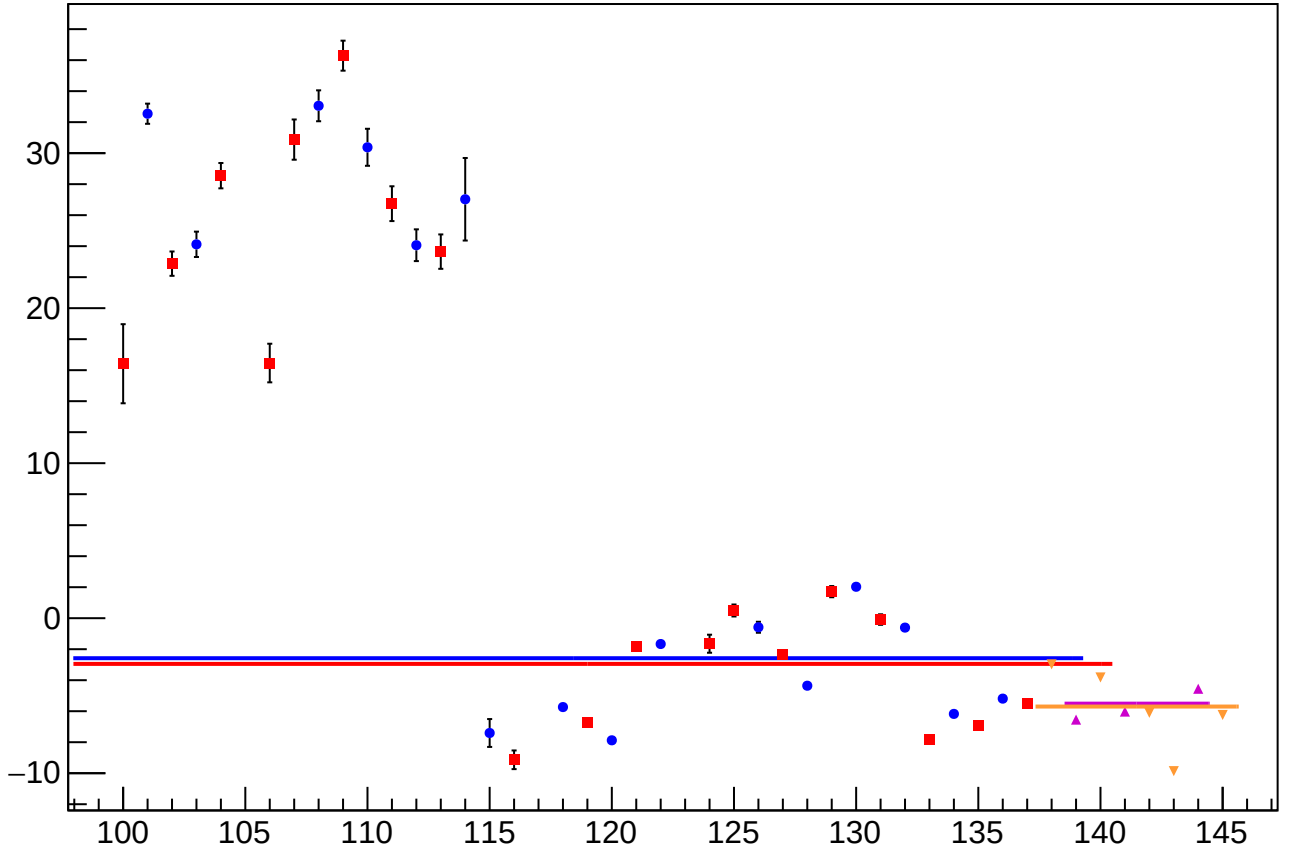
Left: 0.694+/-0.039 $\chi^2$/NDF: 7671.9/7

Right: -3.091+/-0.050 $\chi^2$/NDF: 14325.4/34

In: -0.574+/-0.047 $\chi^2$/NDF:14468.0/18

Out: -0.880+/-0.041 $\chi^2$/NDF:11044.3/23

All: -0.749+/-0.031 $\chi^2$/NDF: 25536.3/42




Right In: -2.582+/-0.083 $\chi^2$/NDF: 8159.7/15

Left Out: -5.700+/-0.064 $\chi^2$/NDF:1092.5/4

Right Out: -2.948+/-0.085 $\chi^2$/NDF: 8196.4/18

Left In: -5.513+/-0.077 $\chi^2$/NDF:133.3/2

Left: -5.624+/-0.049 $\chi^2$/NDF: 1229.3/7

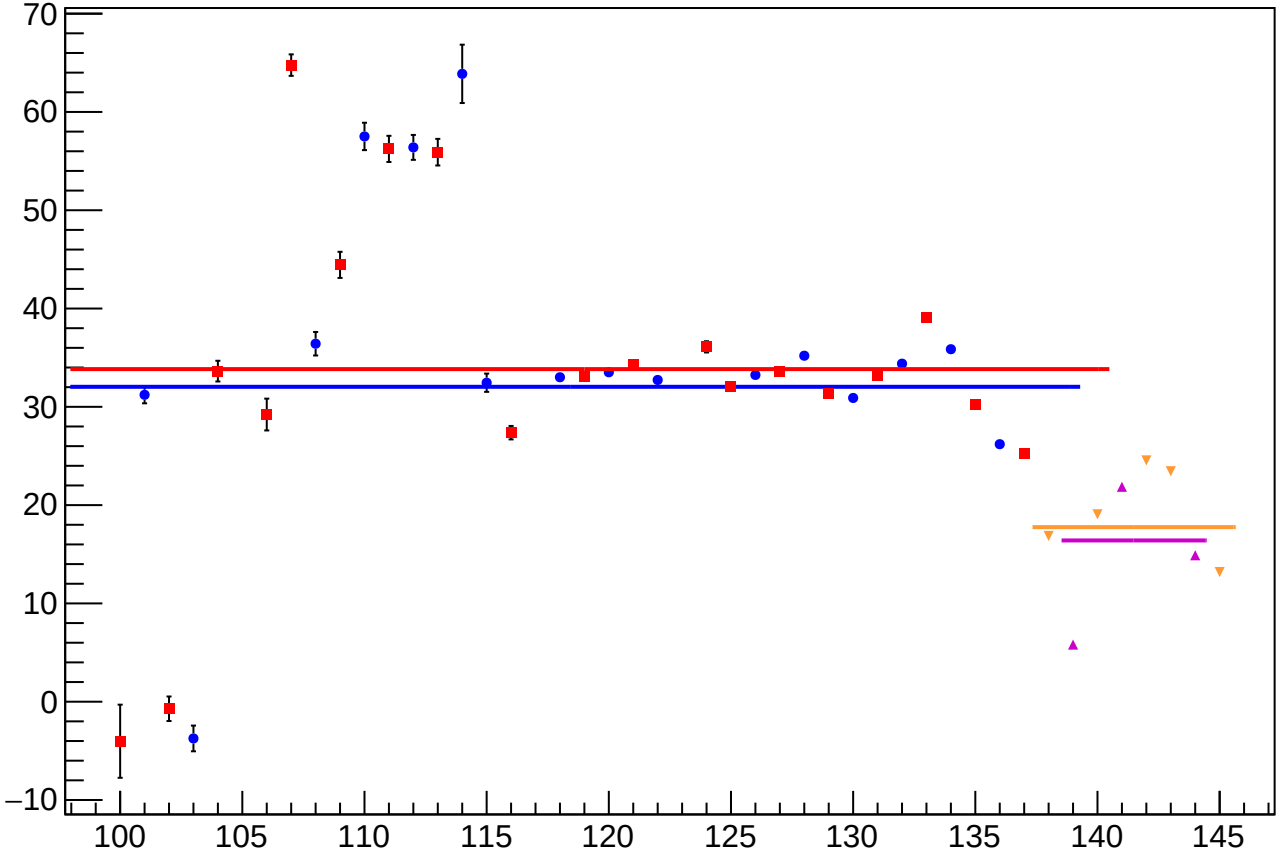
Right: -2.761+/-0.059 $\chi^2$/NDF: 16365.7/34

In: -4.161+/-0.056 $\chi^2$/NDF:8963.5/18

Out: -4.713+/-0.051 $\chi^2$/NDF:9961.9/23

All: -4.465+/-0.038 $\chi^2$/NDF: 18978.3/42

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: 17.758+/-0.059 $\chi^2$/NDF:5582.4/4

Right Out: 33.837+/-0.082 $\chi^2$/NDF: 4237.8/18

Left In: 16.407+/-0.073 $\chi^2$/NDF:3974.0/2

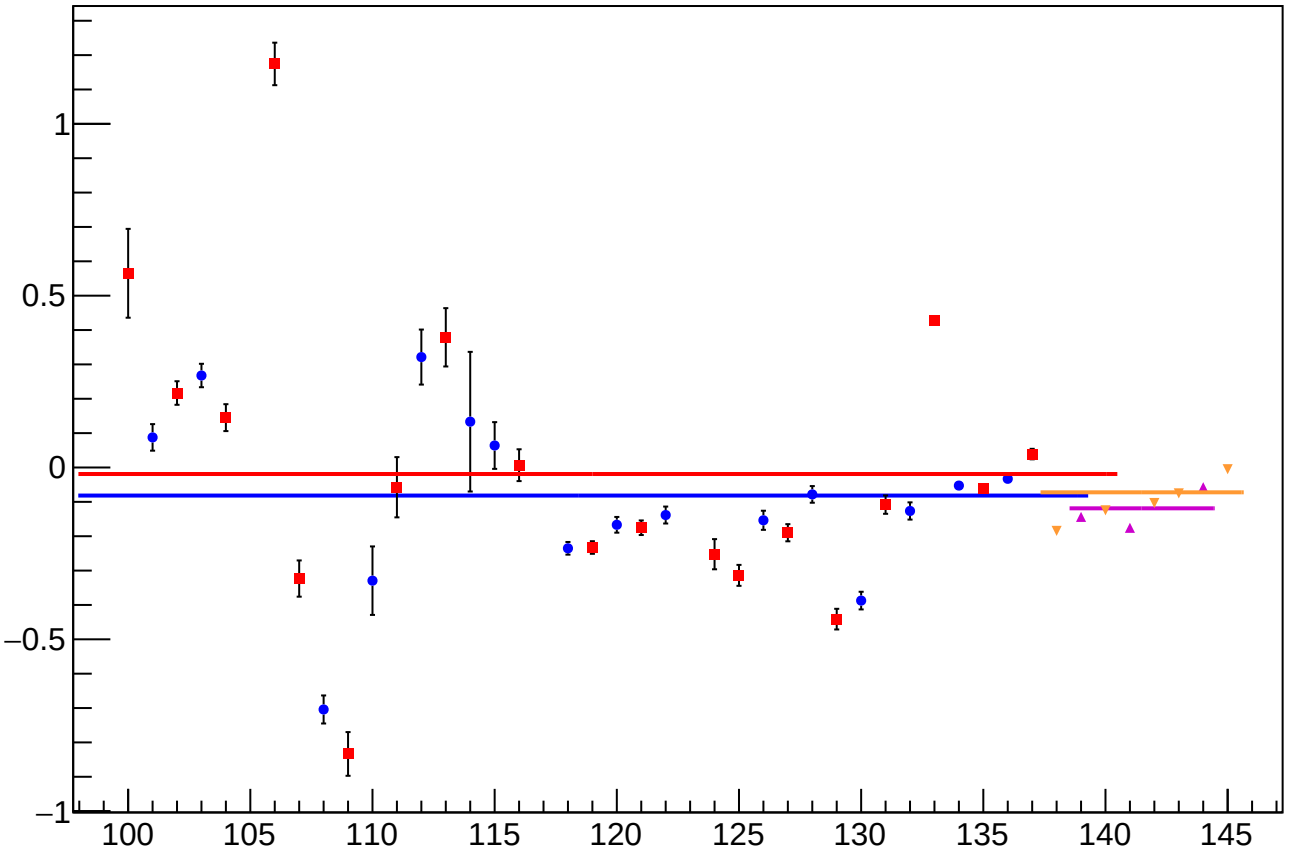
Left: 17.232+/-0.046 $\chi^2$/NDF: 9764.0/7

Right: 32.934+/-0.058 $\chi^2$/NDF: 7737.6/34

In: 23.418+/-0.054 $\chi^2$/NDF:27620.8/18

Out: 23.220+/-0.048 $\chi^2$/NDF:35447.3/23

All: 23.306+/-0.036 $\chi^2$/NDF: 63075.6/42




Right In: -0.082+/-0.005 $\chi^2$/NDF: 689.2/15

Left Out: -0.072+/-0.003 $\chi^2$/NDF:640.0/4

Right Out: -0.019+/-0.005 $\chi^2$/NDF: 2273.7/18

Left In: -0.119+/-0.003 $\chi^2$/NDF:257.5/2

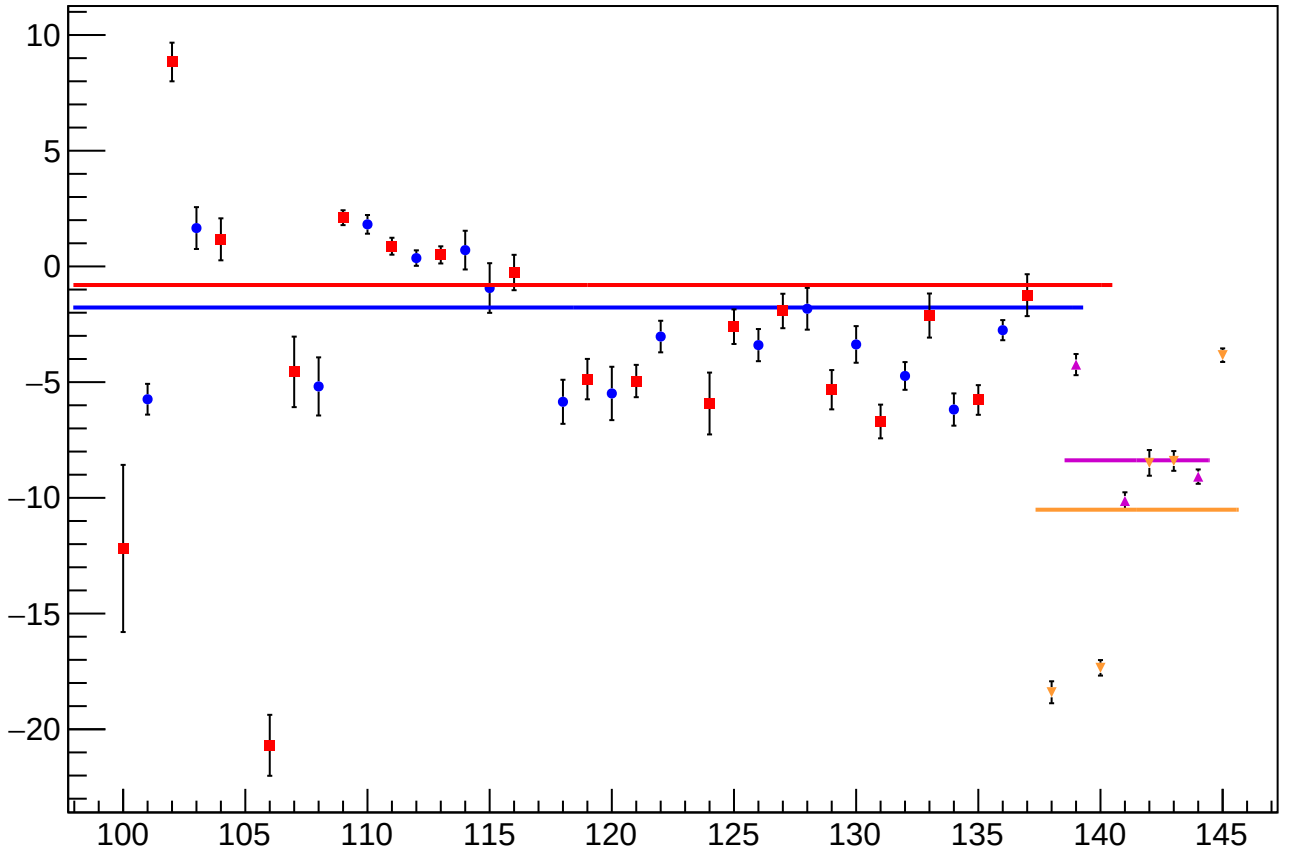
Left: -0.091+/-0.002 $\chi^2$/NDF: 1028.8/7

Right: -0.053+/-0.004 $\chi^2$/NDF: 3041.0/34

In: -0.108+/-0.003 $\chi^2$/NDF:988.5/18

Out: -0.062+/-0.002 $\chi^2$/NDF:2997.5/23

All: -0.082+/-0.002 $\chi^2$/NDF: 4160.8/42




Right In: -1.775+/-0.157 $\chi^2$/NDF: 297.7/15

Left Out: -10.512+/-0.172 $\chi^2$/NDF:1247.1/4

Right Out: -0.803+/-0.148 $\chi^2$/NDF: 733.7/18

Left In: -8.378+/-0.212 $\chi^2$/NDF:109.1/2

Left: -9.662+/-0.134 $\chi^2$/NDF: 1417.3/7

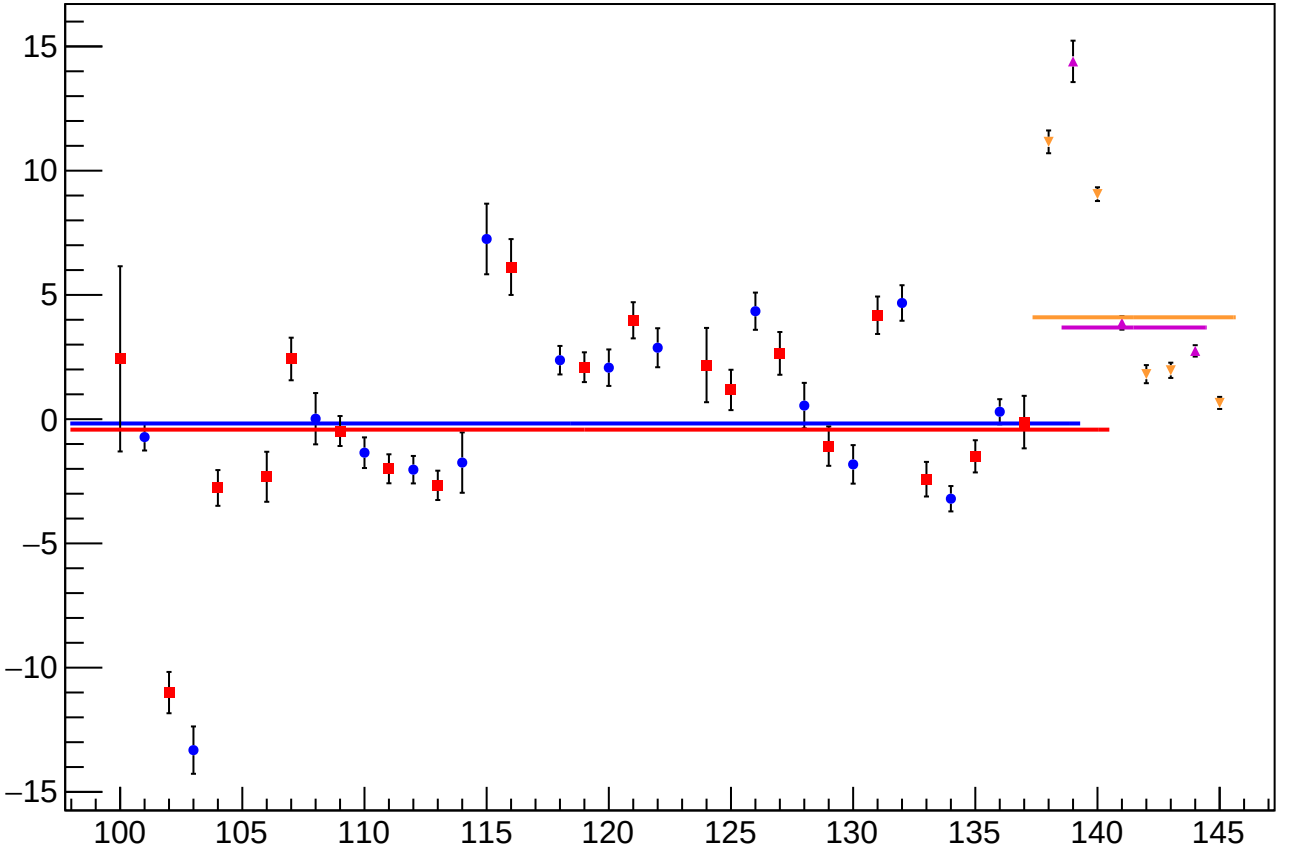
Right: -1.261+/-0.108 $\chi^2$/NDF: 1051.6/34

In: -4.119+/-0.126 $\chi^2$/NDF:1033.6/18

Out: -4.936+/-0.112 $\chi^2$/NDF:3805.0/23

All: -4.574+/-0.084 $\chi^2$/NDF: 4862.0/42

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.174+/-0.173 $\chi^2$/NDF: 403.1/15

Left Out: 4.099+/-0.138 $\chi^2$/NDF:846.5/4

Right Out: -0.421+/-0.177 $\chi^2$/NDF: 366.3/18

Left In: 3.689+/-0.172 $\chi^2$/NDF:182.5/2

Left: 3.939+/-0.107 $\chi^2$/NDF: 1032.5/7

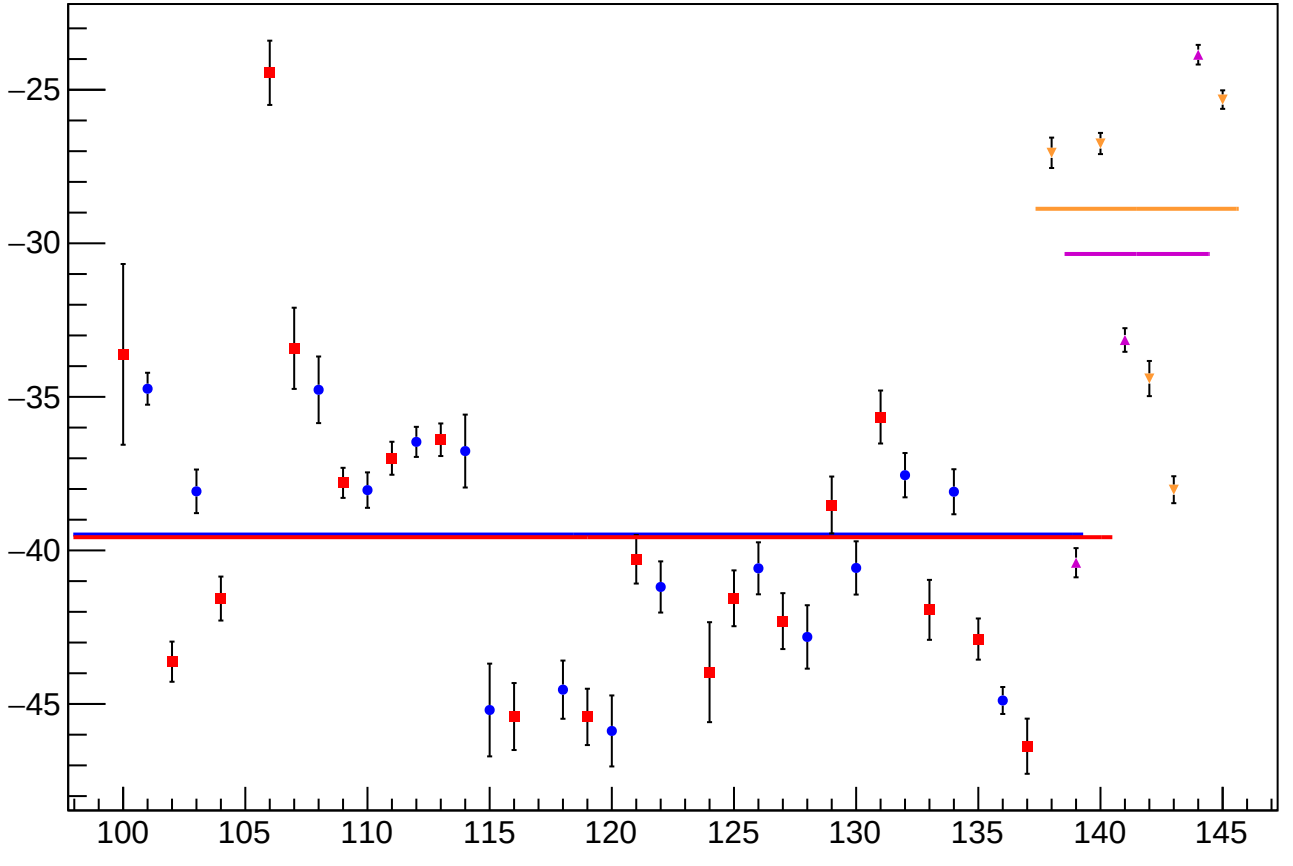
Right: -0.295+/-0.124 $\chi^2$/NDF: 770.4/34

In: 1.772+/-0.122 $\chi^2$/NDF:836.8/18

Out: 2.401+/-0.109 $\chi^2$/NDF:1619.0/23

All: 2.122+/-0.081 $\chi^2$/NDF: 2470.6/42

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: -28.875+/-0.178 $\chi^2$/NDF:718.9/4

Right Out: -39.570+/-0.181 $\chi^2$/NDF: 553.5/18

Left In: -30.347+/-0.218 $\chi^2$/NDF:911.8/2

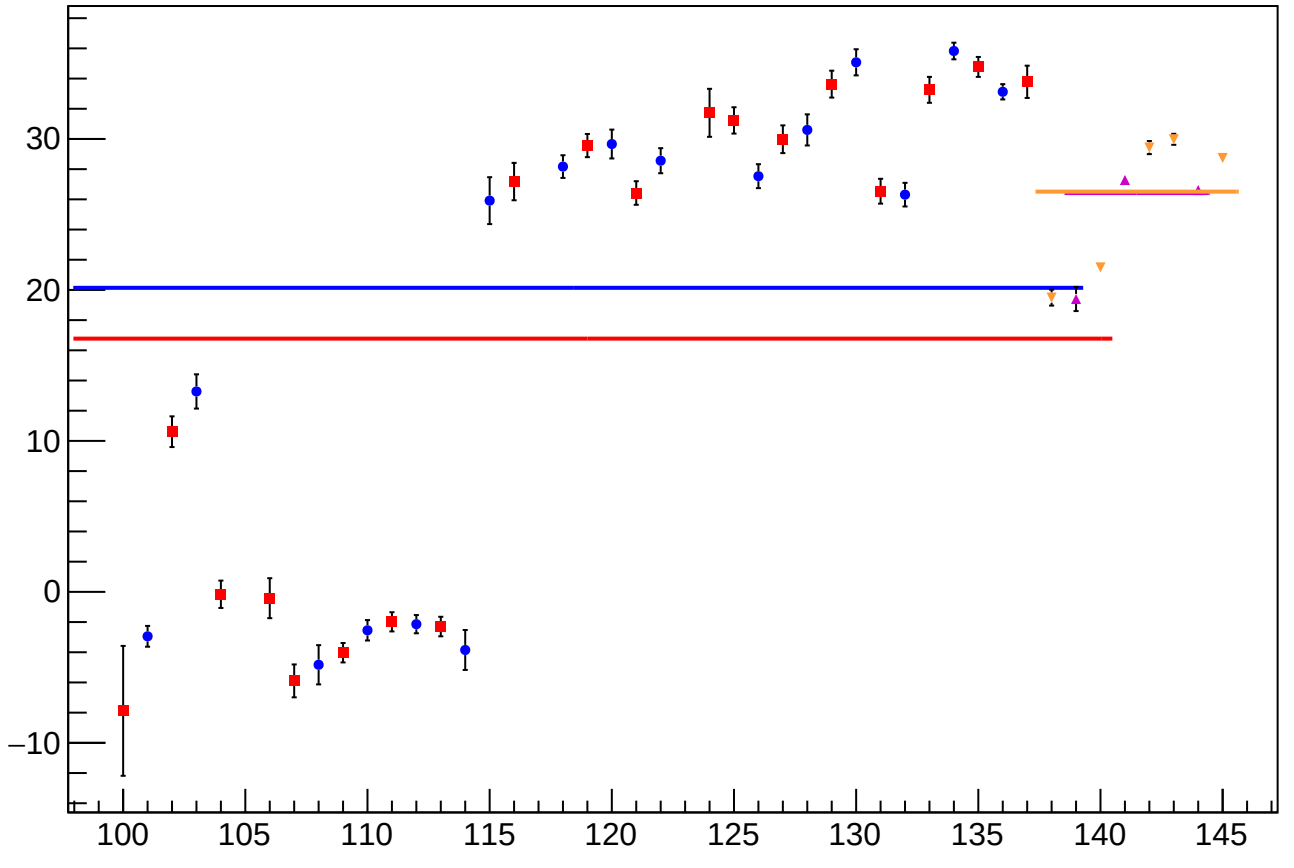
Left: -29.461+/-0.138 $\chi^2$/NDF: 1658.0/7

Right: -39.526+/-0.128 $\chi^2$/NDF: 962.9/34

In: -35.783+/-0.139 $\chi^2$/NDF:2361.9/18

Out: -34.119+/-0.127 $\chi^2$/NDF:3052.1/23

All: -34.874+/-0.094 $\chi^2$/NDF: 5492.3/42




Right In: 20.140+/-0.195 $\chi^2$/NDF: 6684.6/15

Left Out: 26.512+/-0.161 $\chi^2$/NDF:604.1/4

Right Out: 16.775+/-0.200 $\chi^2$/NDF: 6739.1/18

Left In: 26.417+/-0.200 $\chi^2$/NDF:84.6/2

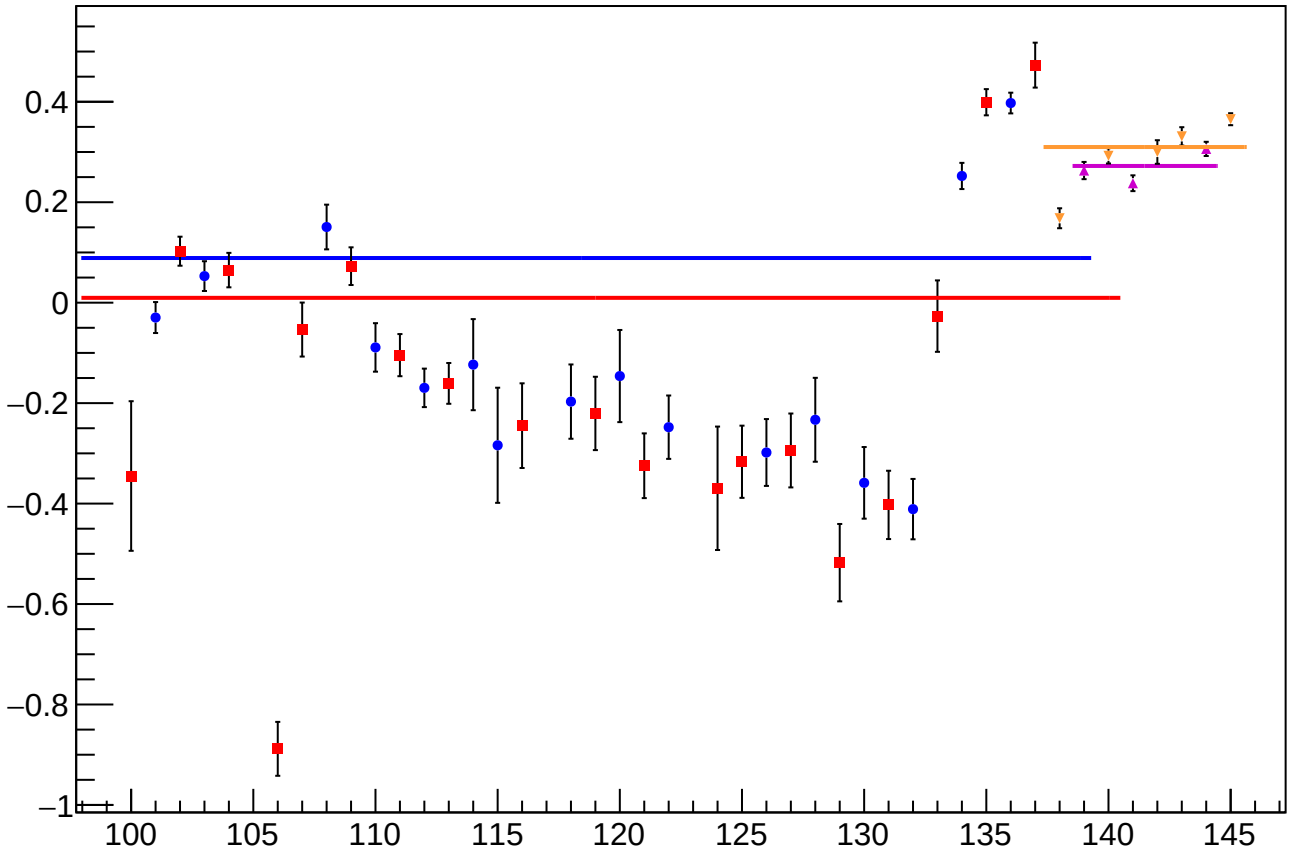
Left: 26.474+/-0.126 $\chi^2$/NDF: 688.8/7

Right: 18.500+/-0.139 $\chi^2$/NDF: 13569.2/34

In: 23.188+/-0.140 $\chi^2$/NDF:7273.8/18

Out: 22.665+/-0.126 $\chi^2$/NDF:8781.2/23

All: 22.899+/-0.093 $\chi^2$/NDF: 16062.7/42




Right In: 0.089+/-0.010 $\chi^2$/NDF: 563.9/15

Left Out: 0.310+/-0.007 $\chi^2$/NDF:75.3/4

Right Out: 0.010+/-0.011 $\chi^2$/NDF: 834.8/18

Left In: 0.272+/-0.009 $\chi^2$/NDF:10.8/2

Left: 0.295+/-0.006 $\chi^2$/NDF: 96.8/7

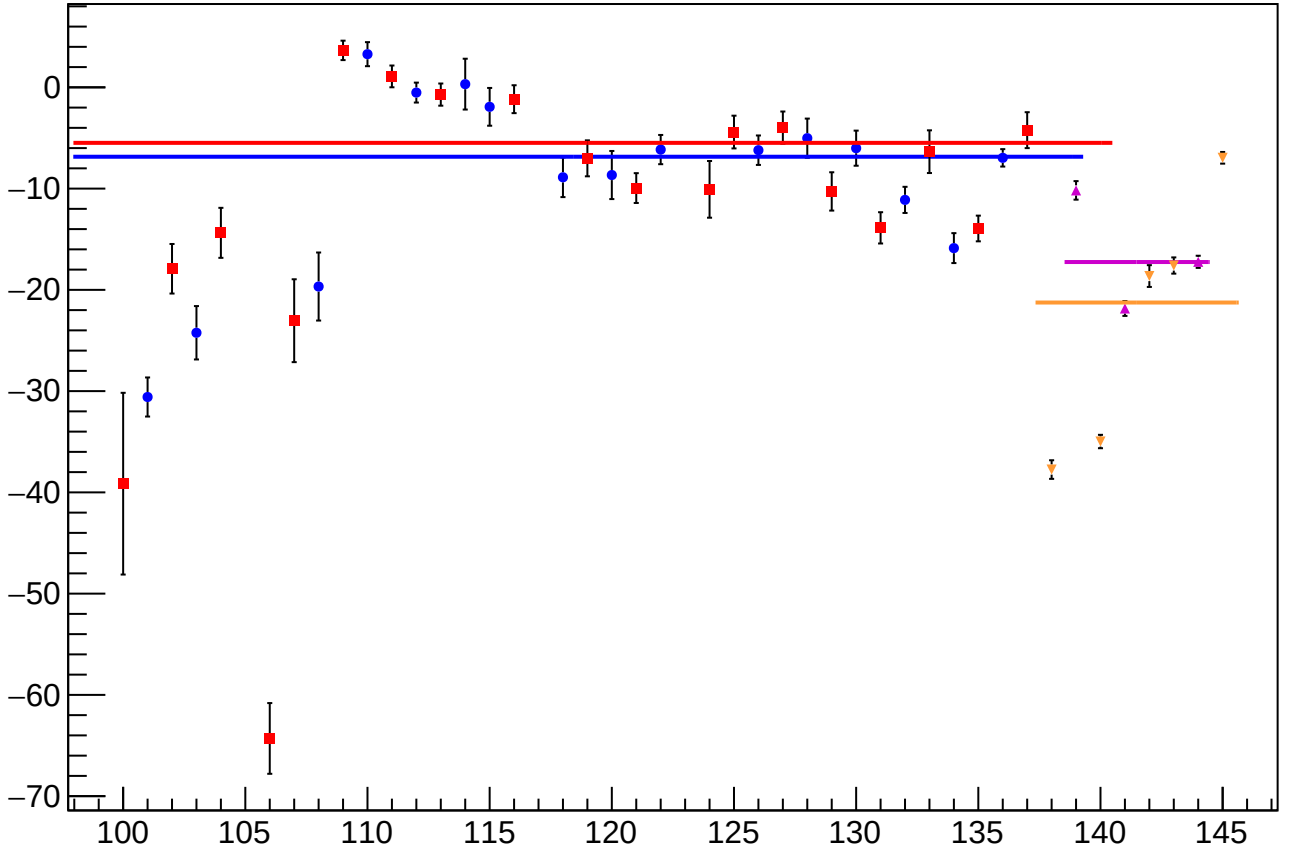
Right: 0.052+/-0.008 $\chi^2$/NDF: 1426.1/34

In: 0.194+/-0.007 $\chi^2$/NDF:752.8/18

Out: 0.218+/-0.006 $\chi^2$/NDF:1425.1/23

All: 0.207+/-0.005 $\chi^2$/NDF: 2184.5/42

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -6.853+/-0.376 $\chi^2$/NDF: 390.1/15

Left Out: -21.251+/-0.335 $\chi^2$/NDF:1395.6/4

Right Out: -5.483+/-0.369 $\chi^2$/NDF: 606.5/18

Left In: -17.252+/-0.415 $\chi^2$/NDF:98.7/2

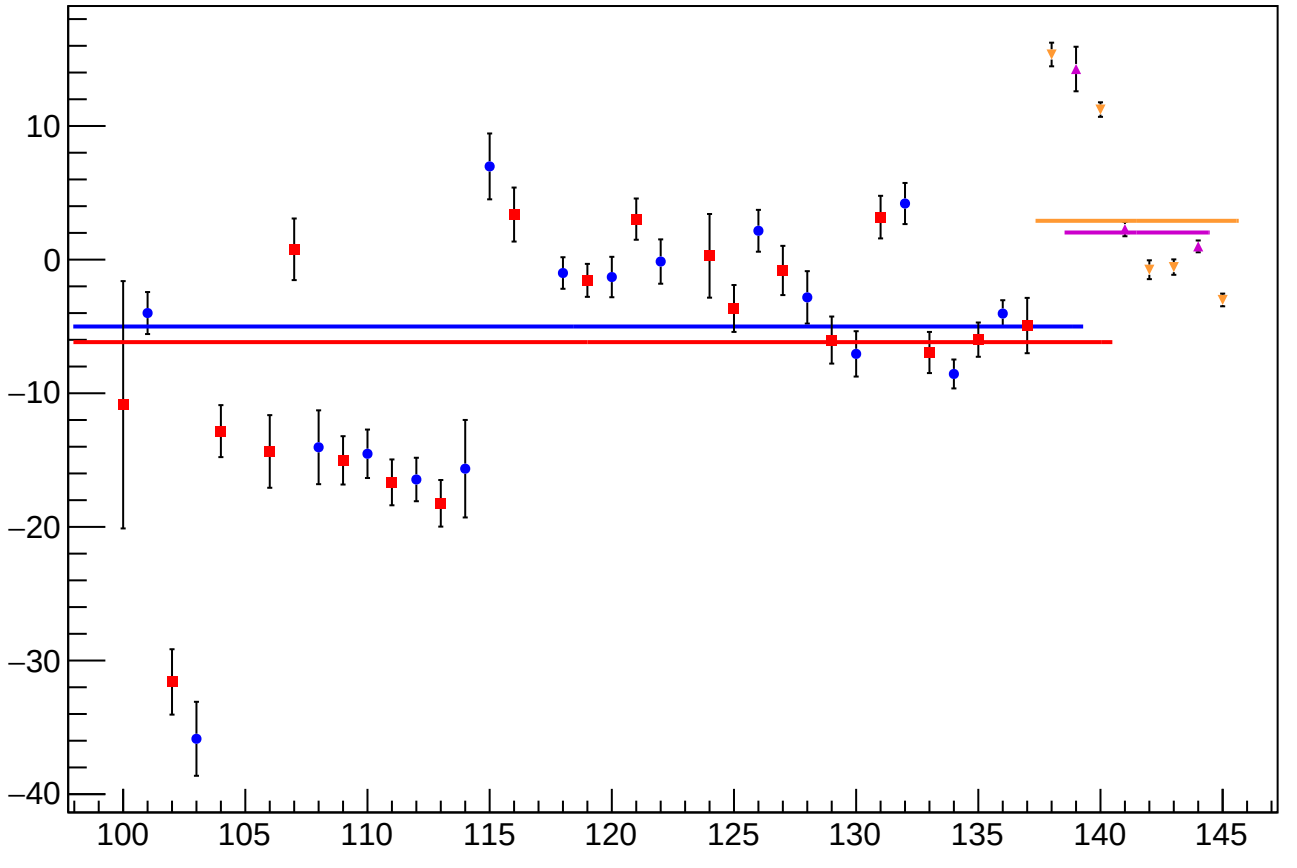
Left: -19.671+/-0.261 $\chi^2$/NDF: 1550.6/7

Right: -6.155+/-0.263 $\chi^2$/NDF: 1003.4/34

In: -11.540+/-0.278 $\chi^2$/NDF:834.2/18

Out: -14.124+/-0.248 $\chi^2$/NDF:3003.0/23

All: -12.980+/-0.185 $\chi^2$/NDF: 3885.3/42




Right In: -5.005+/-0.395 $\chi^2$/NDF: 341.7/15

Left Out: 2.905+/-0.266 $\chi^2$/NDF:650.0/4

Right Out: -6.173+/-0.417 $\chi^2$/NDF: 369.1/18

Left In: 2.030+/-0.334 $\chi^2$/NDF:59.6/2

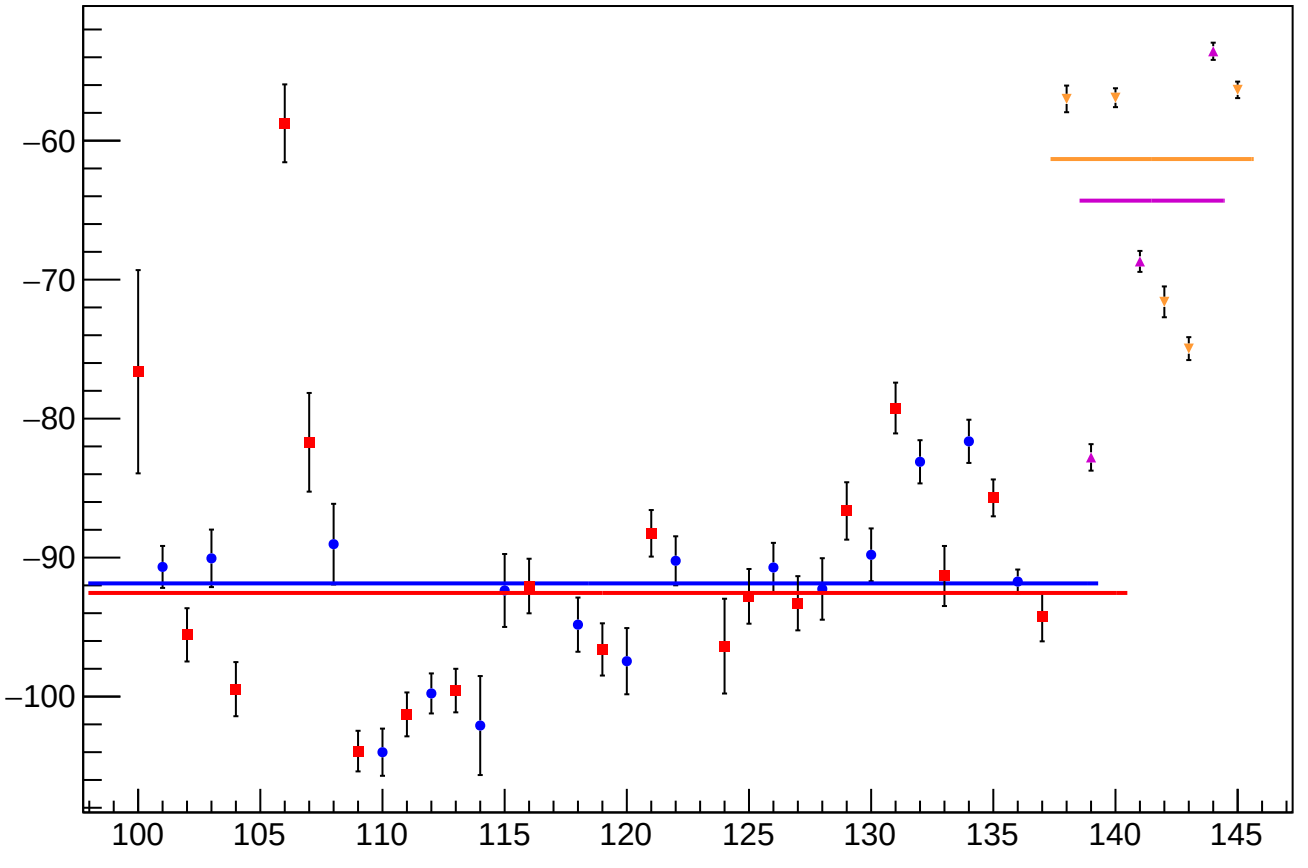
Left: 2.565+/-0.208 $\chi^2$/NDF: 713.8/7

Right: -5.558+/-0.287 $\chi^2$/NDF: 715.0/34

In: -0.900+/-0.255 $\chi^2$/NDF:586.1/18

Out: 0.270+/-0.224 $\chi^2$/NDF:1356.3/23

All: -0.240+/-0.168 $\chi^2$/NDF: 1954.2/42




Right In: -91.856+/-0.424 $\chi^2$/NDF: 177.3/15

Left Out: -61.322+/-0.345 $\chi^2$/NDF:492.9/4

Right Out: -92.544+/-0.439 $\chi^2$/NDF: 387.8/18

Left In: -64.315+/-0.428 $\chi^2$/NDF:710.7/2

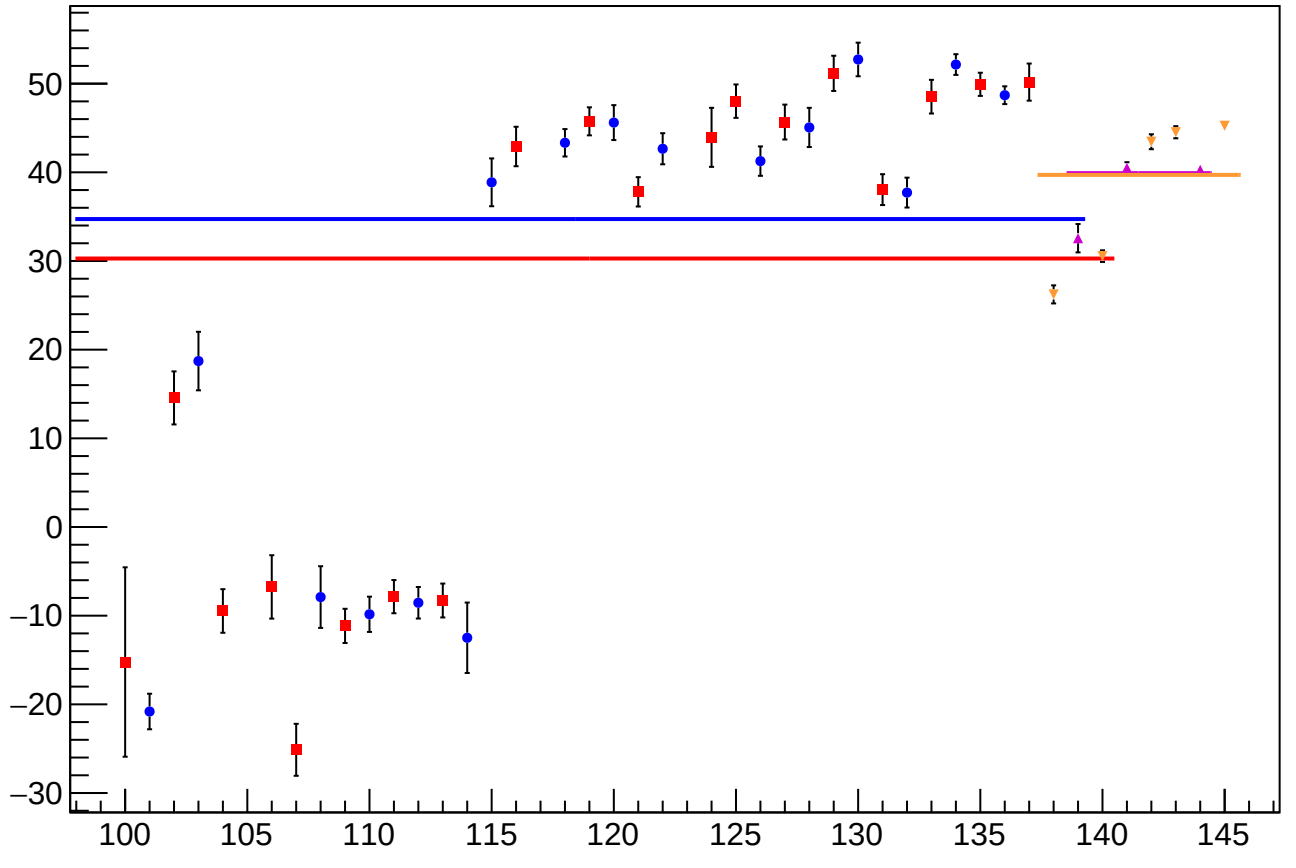
Left: -62.504+/-0.269 $\chi^2$/NDF: 1233.2/7

Right: -92.188+/-0.305 $\chi^2$/NDF: 566.3/34

In: -78.201+/-0.301 $\chi^2$/NDF:2979.4/18

Out: -73.249+/-0.271 $\chi^2$/NDF:4003.0/23

All: -75.469+/-0.202 $\chi^2$/NDF: 7131.6/42




Right In: 34.729+/-0.442 $\chi^2$/NDF: 2809.1/15

Left Out: 39.708+/-0.313 $\chi^2$/NDF:543.1/4

Right Out: 30.279+/-0.467 $\chi^2$/NDF: 2911.2/18

Left In: 39.906+/-0.390 $\chi^2$/NDF:22.5/2

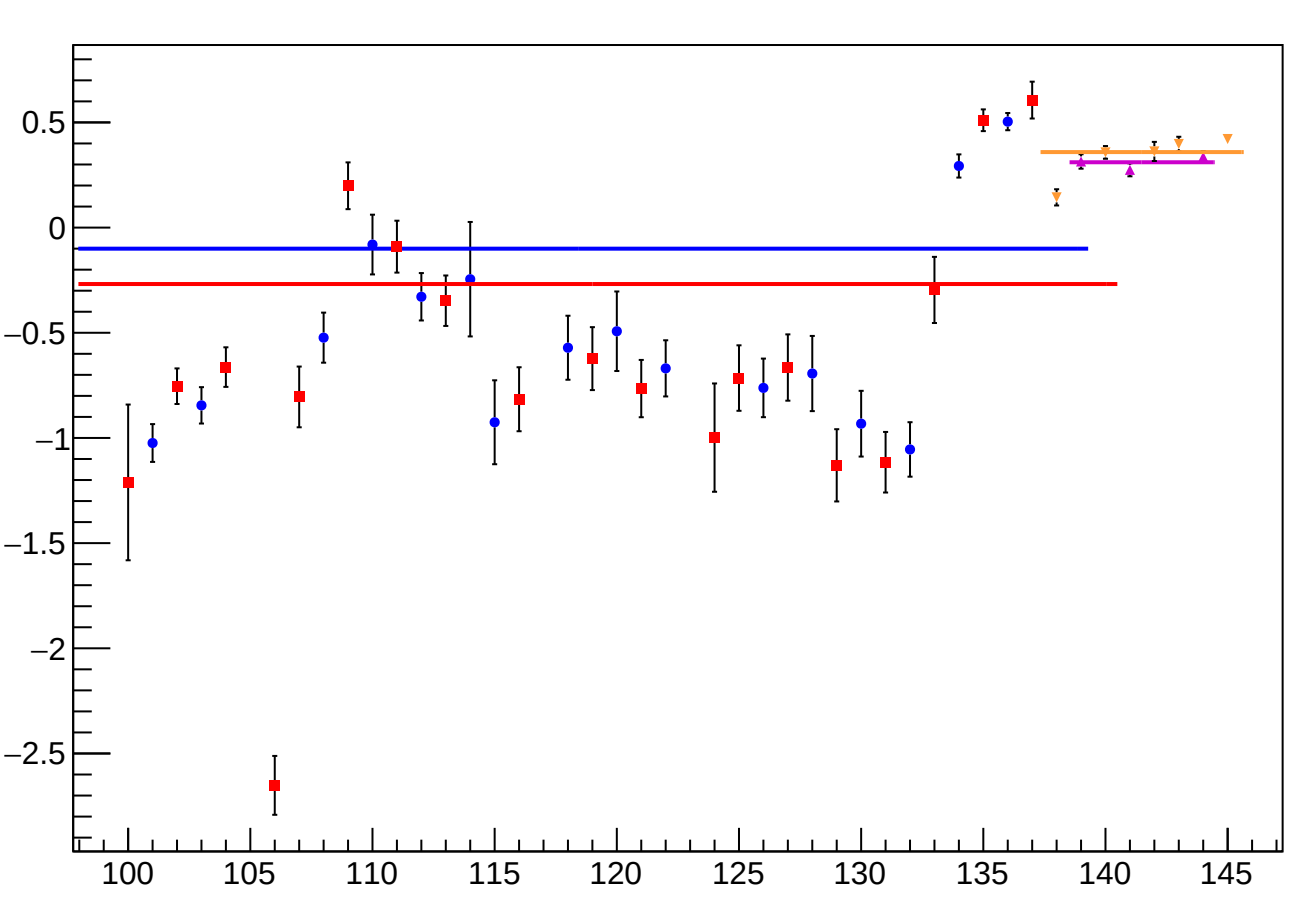
Left: 39.786+/-0.244 $\chi^2$/NDF: 565.7/7

Right: 32.627+/-0.321 $\chi^2$/NDF: 5768.2/34

In: 37.637+/-0.293 $\chi^2$/NDF:2908.7/18

Out: 36.788+/-0.260 $\chi^2$/NDF:3735.6/23

All: 37.163+/-0.194 $\chi^2$/NDF: 6649.0/42




Right In: -0.100+/-0.024 $\chi^2$/NDF: 631.4/15

Left Out: 0.359+/-0.014 $\chi^2$/NDF:39.4/4

Right Out: -0.268+/-0.026 $\chi^2$/NDF: 822.4/18

Left In: 0.311+/-0.018 $\chi^2$/NDF:2.3/2

Left: 0.340+/-0.011 $\chi^2$/NDF: 46.2/7

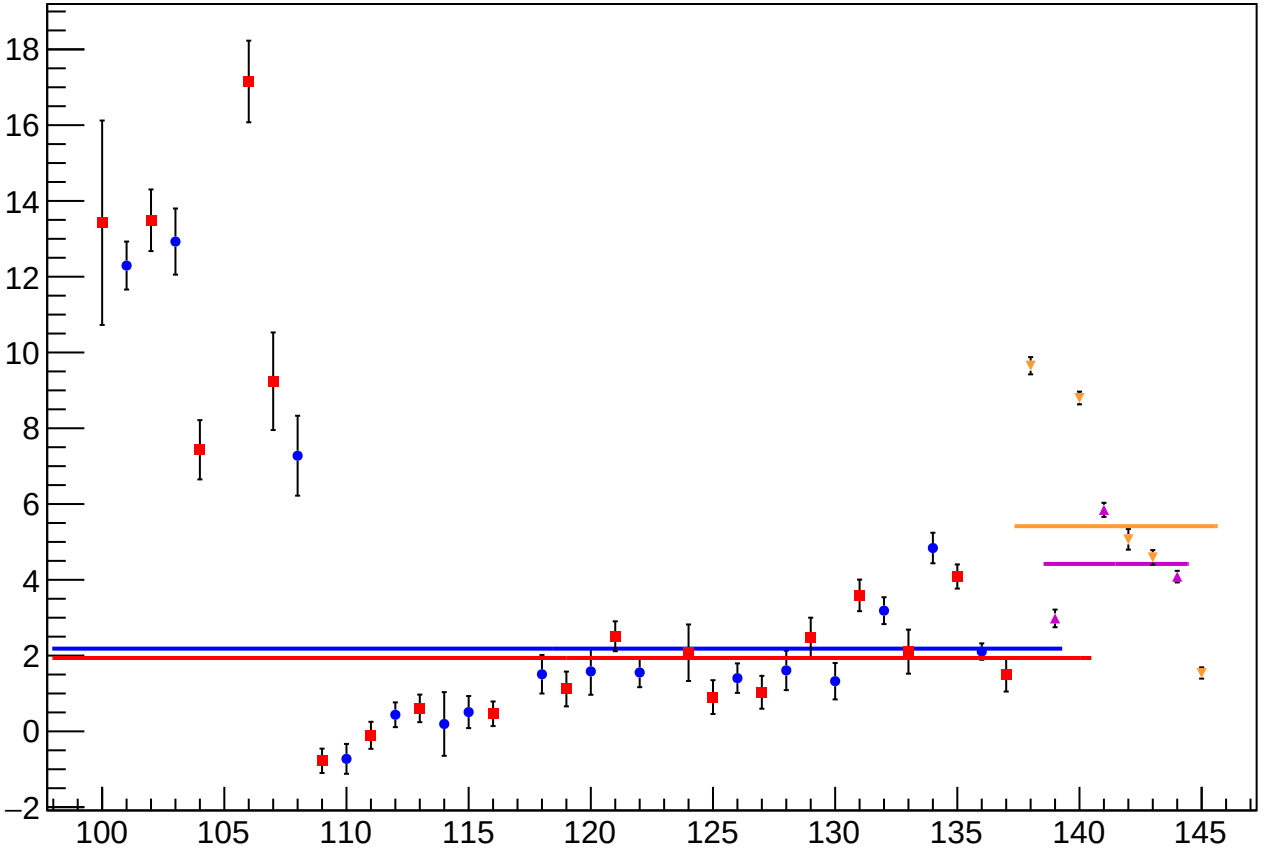
Right: -0.176+/-0.018 $\chi^2$/NDF: 1476.0/34

In: 0.167+/-0.014 $\chi^2$/NDF:824.1/18

Out: 0.217+/-0.013 $\chi^2$/NDF:1300.2/23

All: 0.195+/-0.009 $\chi^2$/NDF: 2131.1/42

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: 5.416+/-0.084 $\chi^2$/NDF:1452.2/4

Right Out: 1.936+/-0.105 $\chi^2$/NDF: 717.1/18

Left In: 4.420+/-0.105 $\chi^2$/NDF:101.4/2

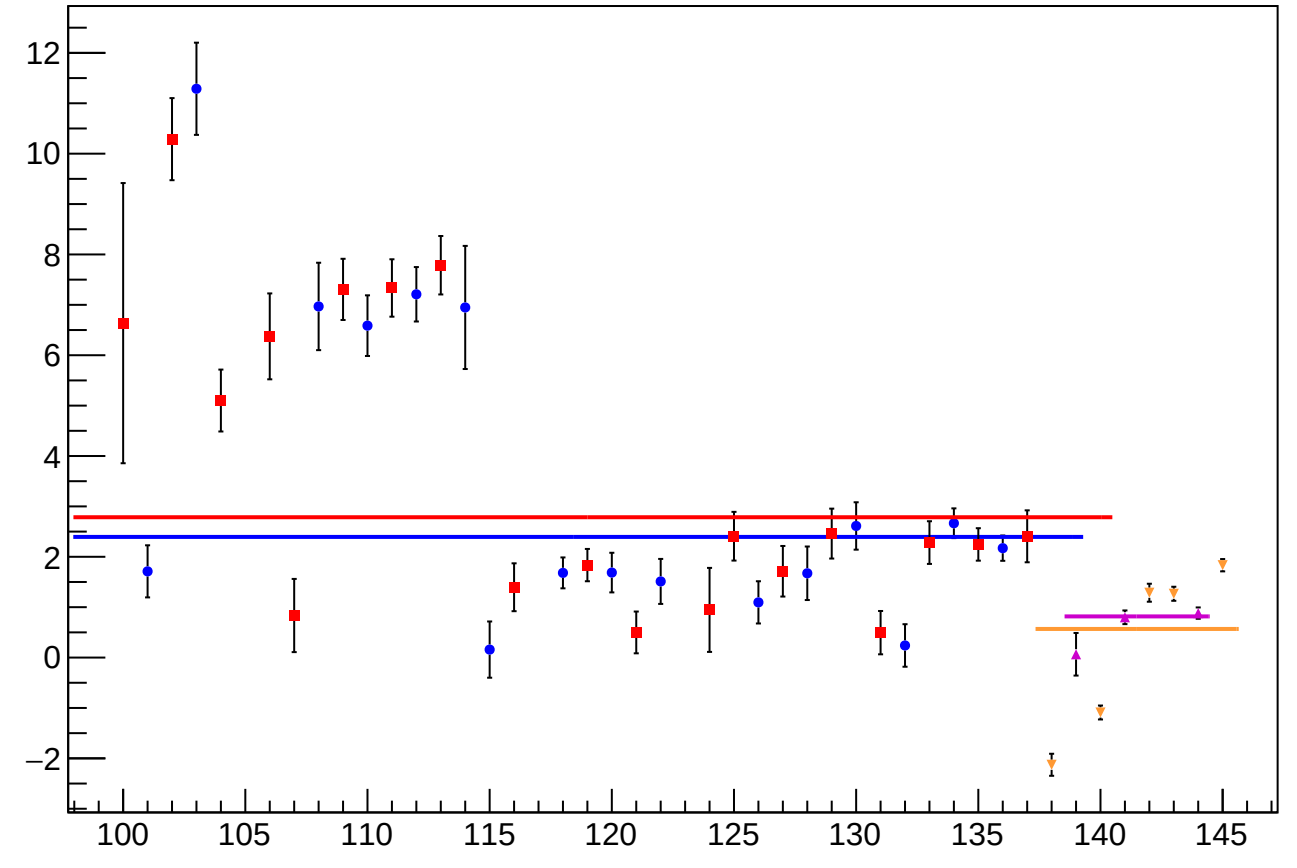
Left: 5.026+/-0.066 $\chi^2$/NDF: 1608.0/7

Right: 2.061+/-0.074 $\chi^2$/NDF: 1319.2/34

In: 3.297+/-0.074 $\chi^2$/NDF:926.5/18

Out: 4.057+/-0.066 $\chi^2$/NDF:2832.4/23

All: 3.722+/-0.049 $\chi^2$/NDF: 3817.4/42




Right In: 2.394+/-0.108 $\chi^2$/NDF: 333.9/15

Left Out: 0.568+/-0.067 $\chi^2$/NDF:444.3/4

Right Out: 2.785+/-0.116 $\chi^2$/NDF: 410.9/18

Left In: 0.817+/-0.085 $\chi^2$/NDF:3.5/2

Left: 0.664+/-0.053 $\chi^2$/NDF: 453.1/7

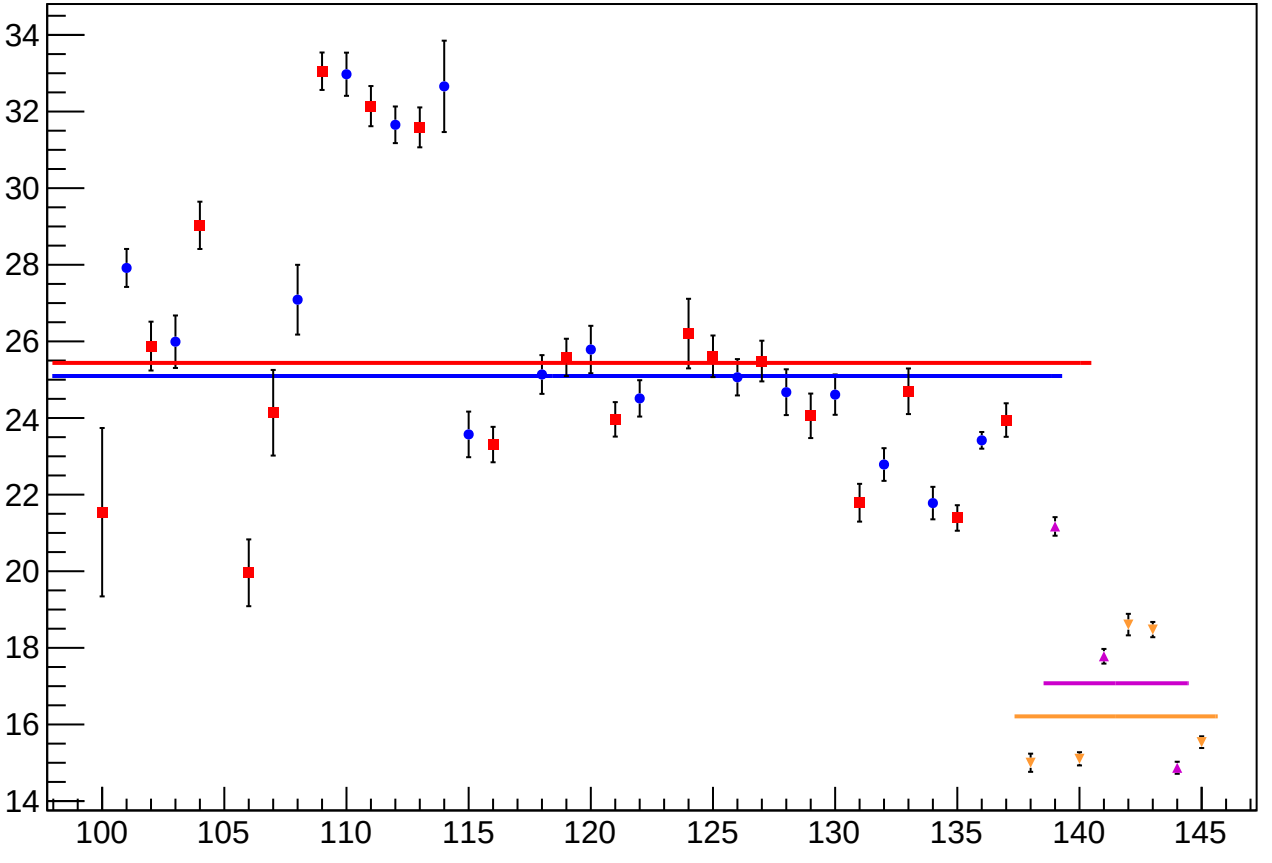
Right: 2.577+/-0.079 $\chi^2$/NDF: 750.9/34

In: 1.417+/-0.067 $\chi^2$/NDF:468.8/18

Out: 1.123+/-0.058 $\chi^2$/NDF:1129.6/23

All: 1.249+/-0.044 $\chi^2$/NDF: 1609.4/42

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: 16.211+/-0.087 $\chi^2$/NDF:288.8/4

Right Out: 25.438+/-0.124 $\chi^2$/NDF: 877.6/18

Left In: 17.076+/-0.109 $\chi^2$/NDF:495.0/2

Left: 16.549+/-0.068 $\chi^2$/NDF: 822.3/7

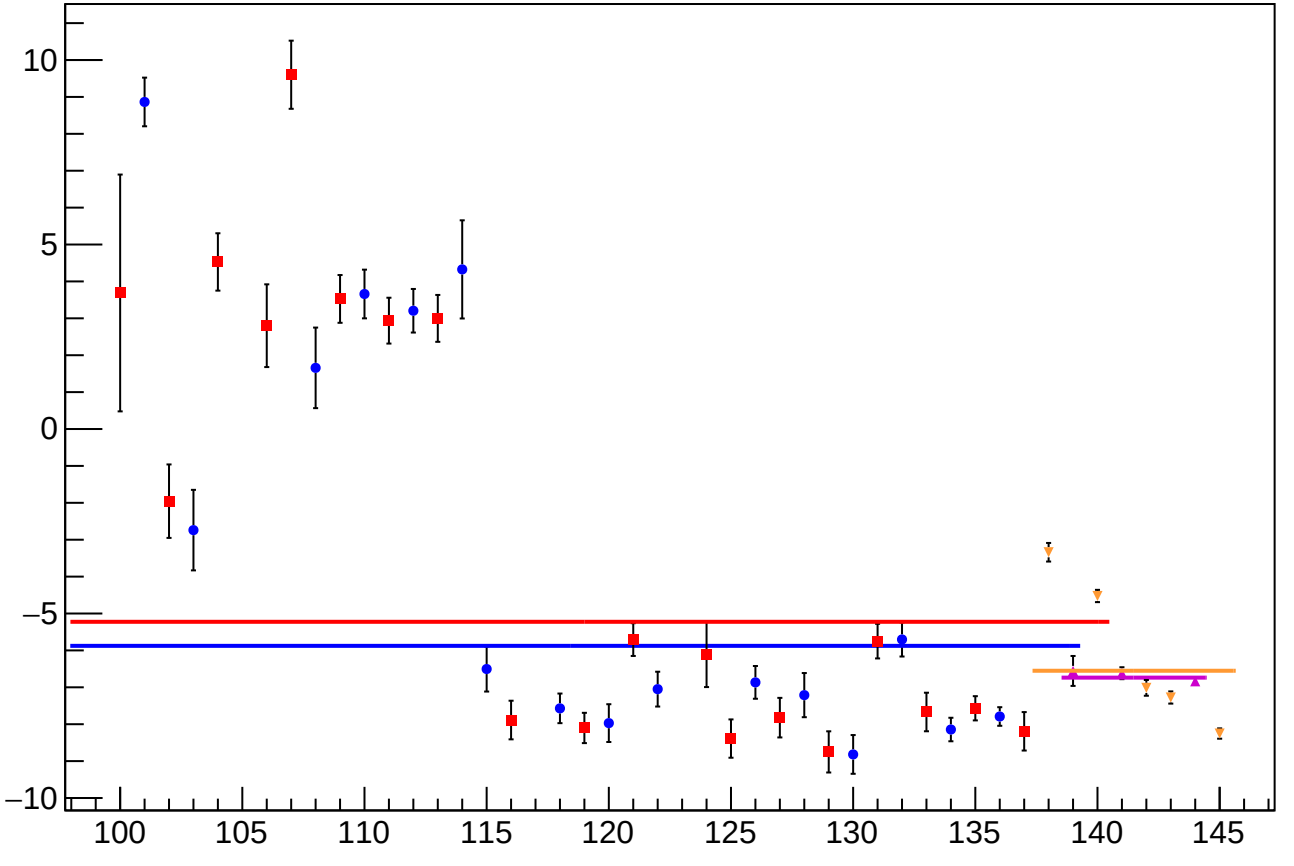
Right: 25.258+/-0.085 $\chi^2$/NDF: 1504.5/34

In: 20.774+/-0.080 $\chi^2$/NDF:3627.1/18

Out: 19.257+/-0.071 $\chi^2$/NDF:4874.4/23

All: 19.930+/-0.053 $\chi^2$/NDF: 8702.7/42

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -5.876+/-0.121 $\chi^2$/NDF: 1251.4/15

Left Out: -6.551+/-0.079 $\chi^2$/NDF:482.6/4

Right Out: -5.225+/-0.129 $\chi^2$/NDF: 1292.0/18

Left In: -6.738+/-0.099 $\chi^2$/NDF:1.3/2

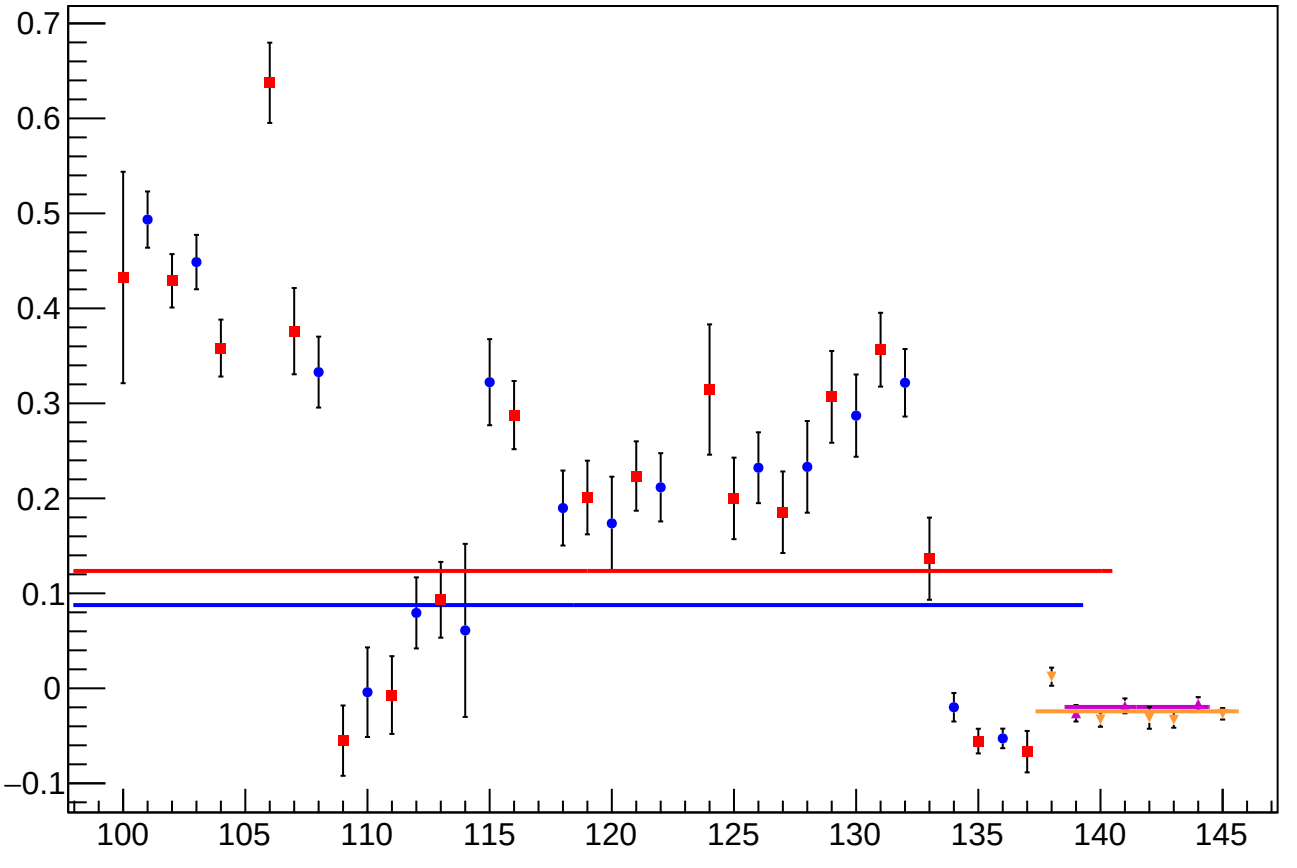
Left: -6.623+/-0.062 $\chi^2$/NDF: 486.1/7

Right: -5.573+/-0.088 $\chi^2$/NDF: 2556.9/34

In: -6.390+/-0.077 $\chi^2$/NDF:1283.1/18

Out: -6.193+/-0.067 $\chi^2$/NDF:1851.2/23

All: -6.279+/-0.051 $\chi^2$/NDF: 3138.1/42




Right In: 0.088+/-0.007 $\chi^2$/NDF: 768.0/15

Left Out: -0.024+/-0.004 $\chi^2$/NDF:17.5/4

Right Out: 0.124+/-0.007 $\chi^2$/NDF: 762.3/18

Left In: -0.020+/-0.004 $\chi^2$/NDF:0.8/2

Left: -0.022+/-0.003 $\chi^2$/NDF: 19.0/7

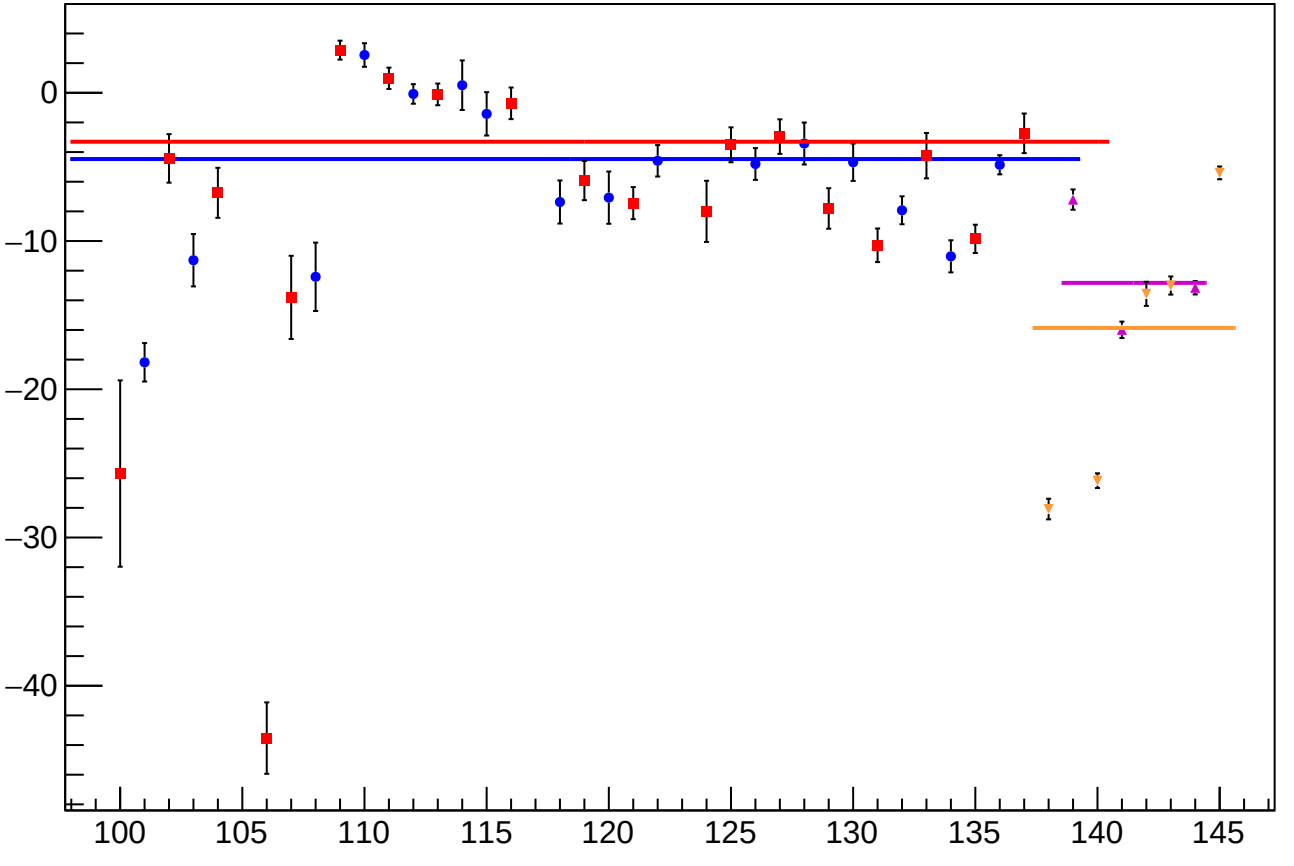
Right: 0.104+/-0.005 $\chi^2$/NDF: 1543.6/34

In: 0.014+/-0.004 $\chi^2$/NDF:950.0/18

Out: 0.005+/-0.003 $\chi^2$/NDF:1107.3/23

All: 0.009+/-0.002 $\chi^2$/NDF: 2061.1/42

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: -15.866+/-0.253 $\chi^2$/NDF:1354.7/4

Right Out: -3.302+/-0.261 $\chi^2$/NDF: 584.6/18

Left In: -12.823+/-0.312 $\chi^2$/NDF:100.6/2

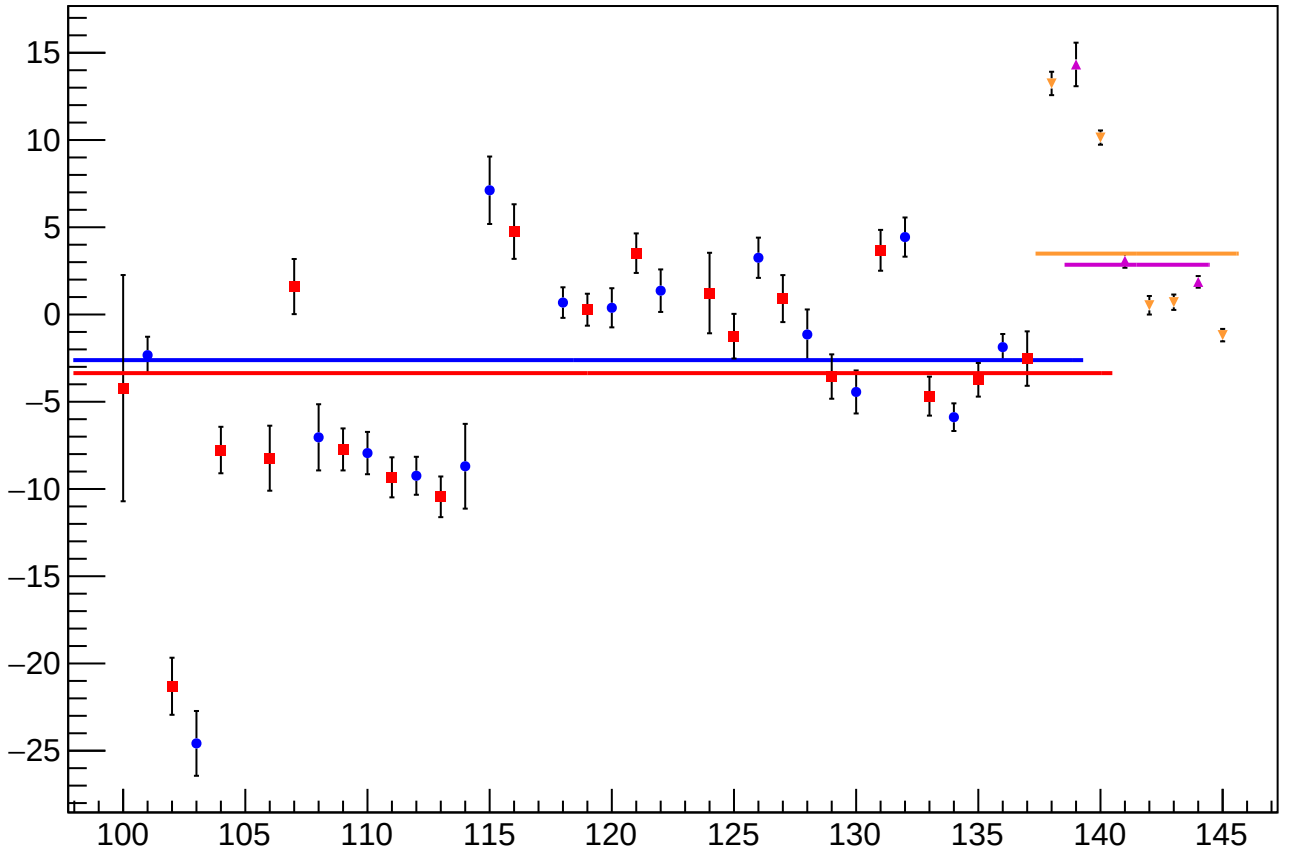
Left: -14.660+/-0.196 $\chi^2$/NDF: 1512.8/7

Right: -3.869+/-0.187 $\chi^2$/NDF: 926.1/34

In: -8.024+/-0.203 $\chi^2$/NDF:844.3/18

Out: -9.783+/-0.181 $\chi^2$/NDF:3136.4/23

All: -9.004+/-0.135 $\chi^2$/NDF: 4022.3/42




Right In: -2.615+/-0.286 $\chi^2$/NDF: 351.9/15

Left Out: 3.490+/-0.201 $\chi^2$/NDF:718.3/4

Right Out: -3.359+/-0.299 $\chi^2$/NDF: 359.6/18

Left In: 2.851+/-0.252 $\chi^2$/NDF:93.6/2

Left: 3.241+/-0.157 $\chi^2$/NDF: 815.9/7

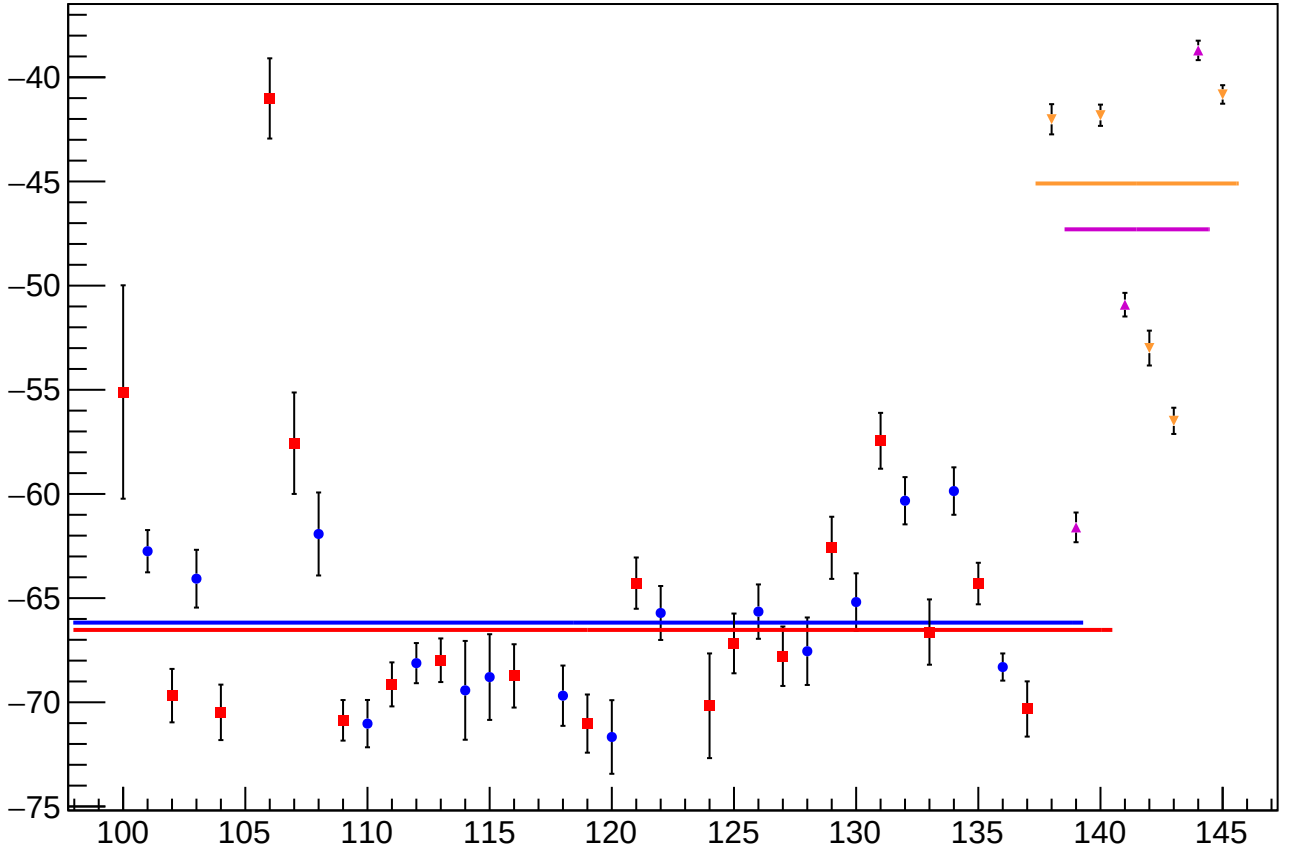
Right: -2.970+/-0.206 $\chi^2$/NDF: 714.8/34

In: 0.464+/-0.189 $\chi^2$/NDF:651.6/18

Out: 1.354+/-0.167 $\chi^2$/NDF:1439.7/23

All: 0.964+/-0.125 $\chi^2$/NDF: 2103.8/42

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -66.176+/-0.304 $\chi^2$/NDF: 129.2/15

Left Out: -45.097+/-0.260 $\chi^2$/NDF:568.5/4

Right Out: -66.526+/-0.312 $\chi^2$/NDF: 321.7/18

Left In: -47.298+/-0.322 $\chi^2$/NDF:781.5/2

Left: -45.968+/-0.202 $\chi^2$/NDF: 1378.3/7

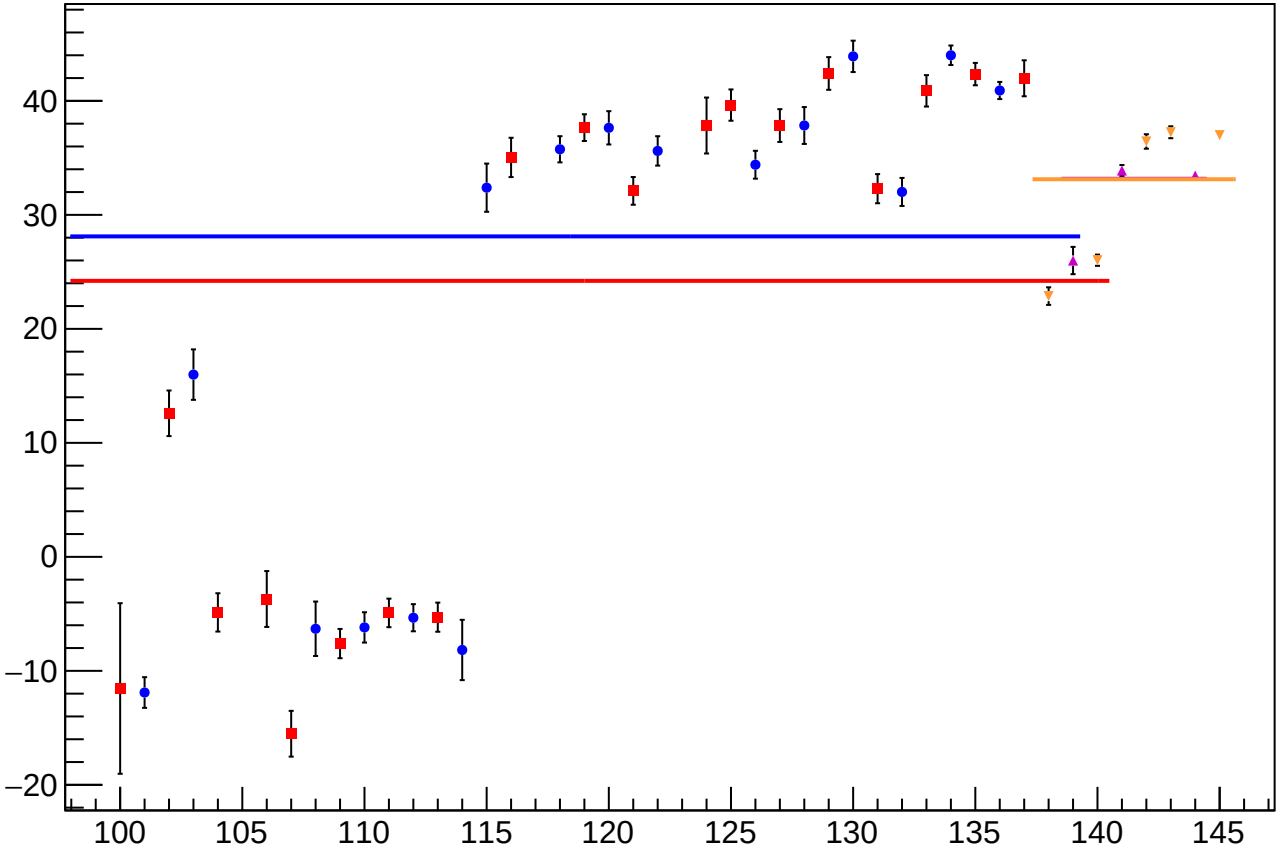
Right: -66.346+/-0.218 $\chi^2$/NDF: 451.5/34

In: -57.260+/-0.221 $\chi^2$/NDF:2728.1/18

Out: -53.879+/-0.200 $\chi^2$/NDF:3665.9/23

All: -55.401+/-0.148 $\chi^2$/NDF: 6522.5/42

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 28.112+/-0.320 $\chi^2$/NDF: 3727.7/15

Left Out: 33.125+/-0.236 $\chi^2$/NDF:563.6/4

Right Out: 24.212+/-0.336 $\chi^2$/NDF: 3841.7/18

Left In: 33.165+/-0.294 $\chi^2$/NDF:38.7/2

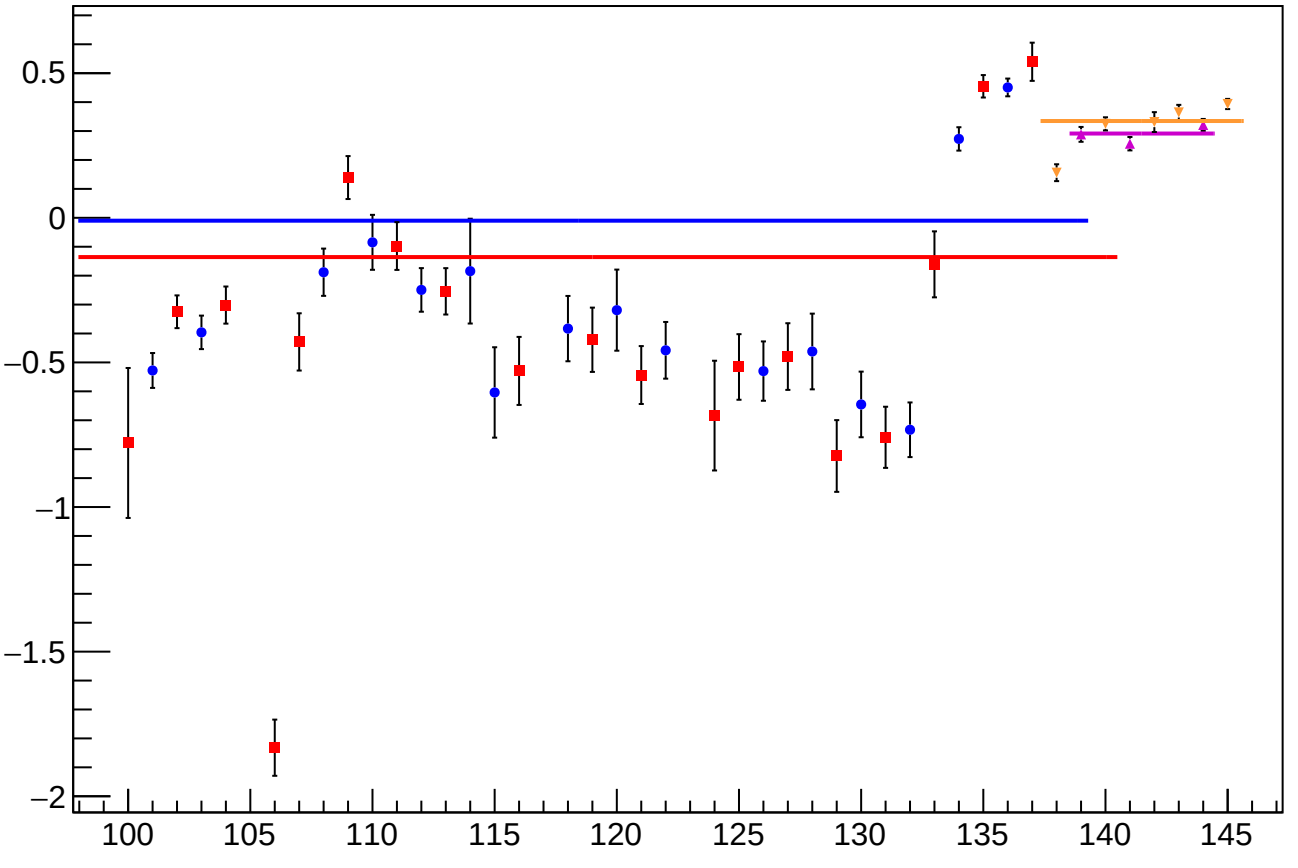
Left: 33.141+/-0.184 $\chi^2$/NDF: 602.3/7

Right: 26.255+/-0.232 $\chi^2$/NDF: 7640.1/34

In: 30.852+/-0.216 $\chi^2$/NDF:3901.6/18

Out: 30.173+/-0.193 $\chi^2$/NDF:4877.0/23

All: 30.474+/-0.144 $\chi^2$/NDF: 8784.1/42




Right In: -0.010+/-0.017 $\chi^2$/NDF: 587.4/15

Left Out: 0.335+/-0.011 $\chi^2$/NDF:50.2/4

Right Out: -0.136+/-0.019 $\chi^2$/NDF: 818.5/18

Left In: 0.291+/-0.013 $\chi^2$/NDF:4.4/2

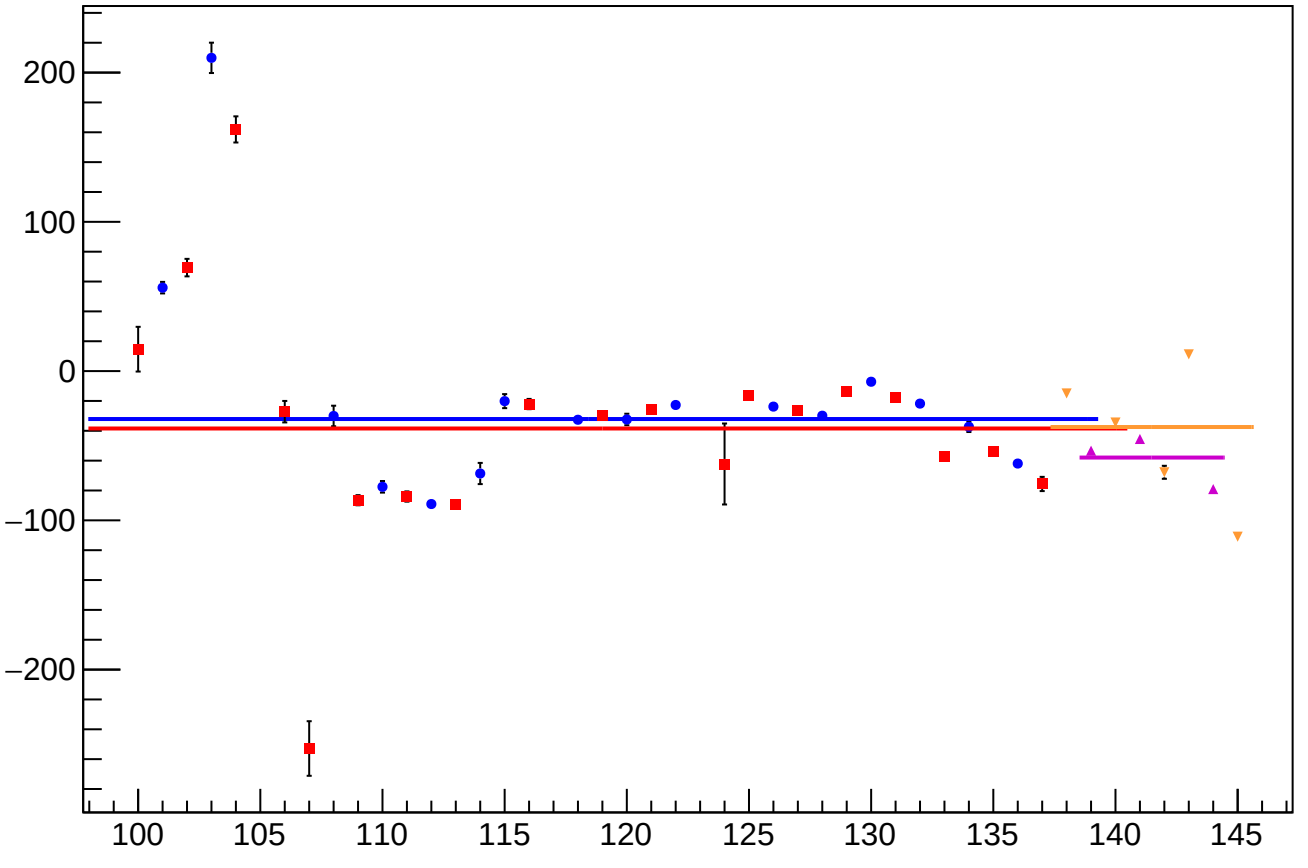
Left: 0.317+/-0.008 $\chi^2$/NDF: 61.1/7

Right: -0.068+/-0.013 $\chi^2$/NDF: 1430.0/34

In: 0.181+/-0.011 $\chi^2$/NDF:782.9/18

Out: 0.219+/-0.009 $\chi^2$/NDF:1339.3/23

All: 0.202+/-0.007 $\chi^2$/NDF: 2129.7/42




Right In: -32.117+/-0.843 $\chi^2$/NDF: 1877.5/15

Left Out: -37.475+/-1.330 $\chi^2$/NDF:875.9/4

Right Out: -38.462+/-0.864 $\chi^2$/NDF: 1972.5/18

Left In: -57.934+/-1.584 $\chi^2$/NDF:70.6/2

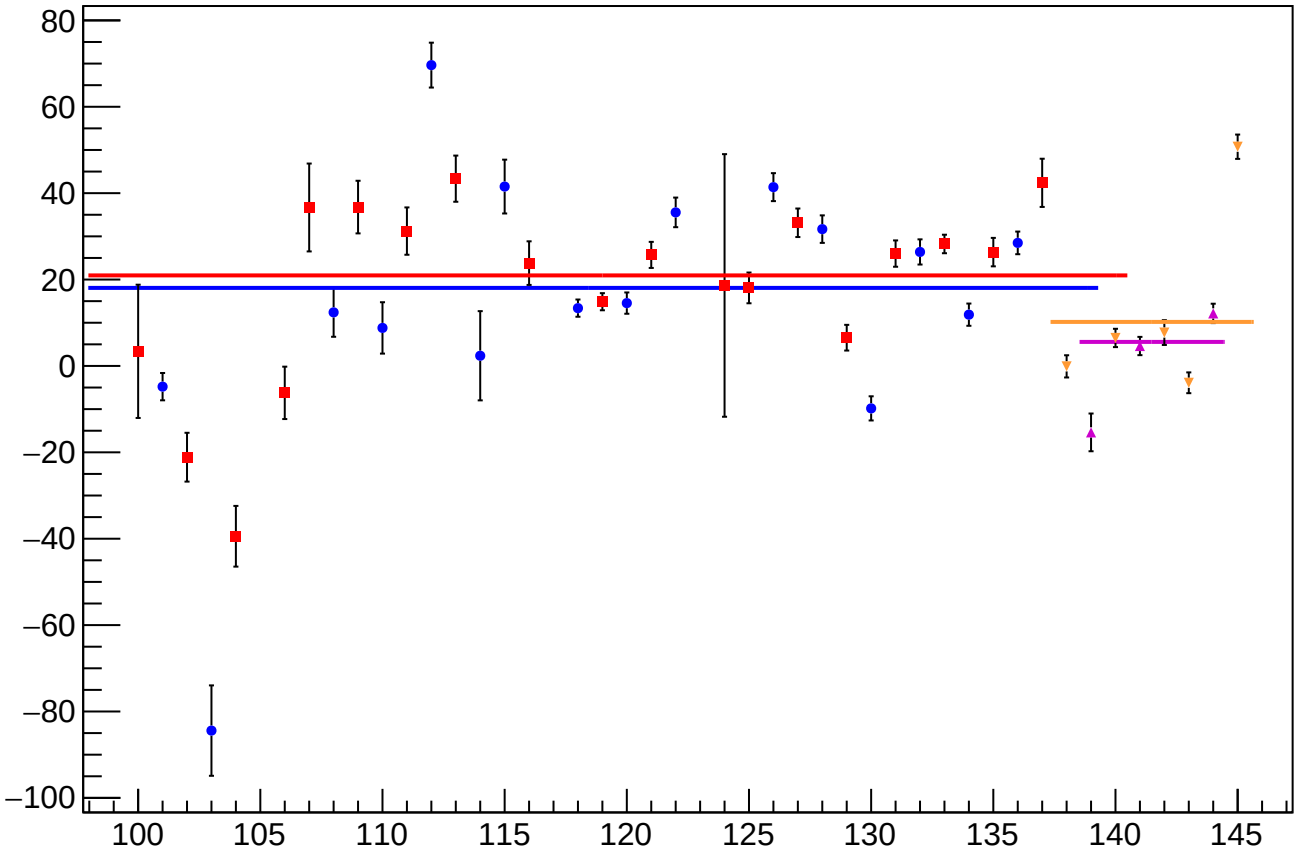
Left: -45.938+/-1.019 $\chi^2$/NDF: 1044.4/7

Right: -35.208+/-0.603 $\chi^2$/NDF: 3877.6/34

In: -37.814+/-0.744 $\chi^2$/NDF:2155.2/18

Out: -38.169+/-0.725 $\chi^2$/NDF:2848.9/23

All: -37.996+/-0.519 $\chi^2$/NDF: 5004.2/42




Right In: 18.068+/-0.823 $\chi^2$/NDF: 499.6/15

Left Out: 10.193+/-1.122 $\chi^2$/NDF:261.6/4

Right Out: 20.959+/-0.868 $\chi^2$/NDF: 262.6/18

Left In: 5.564+/-1.451 $\chi^2$/NDF:31.9/2

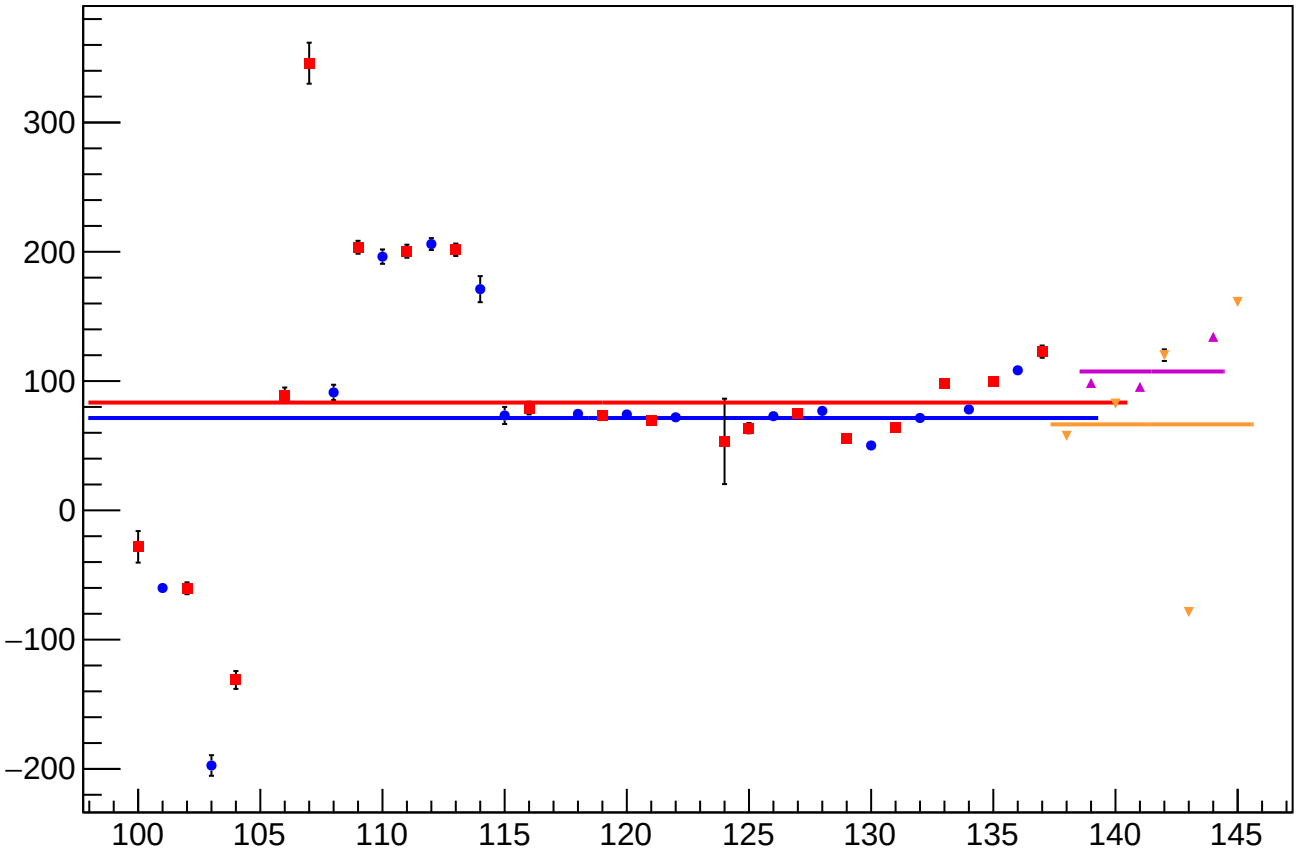
Left: 8.460+/-0.888 $\chi^2$/NDF: 299.8/7

Right: 19.435+/-0.597 $\chi^2$/NDF: 768.0/34

In: 15.027+/-0.716 $\chi^2$/NDF:587.6/18

Out: 16.928+/-0.687 $\chi^2$/NDF:581.8/23

All: 16.016+/-0.496 $\chi^2$/NDF: 1173.0/42




Right In: 71.421+/-0.931 $\chi^2$/NDF: 4819.6/15

Left Out: 66.513+/-1.371 $\chi^2$/NDF:2867.9/4

Right Out: 83.385+/-0.985 $\chi^2$/NDF: 4297.3/18

Left In: 107.411+/-1.637 $\chi^2$/NDF:102.0/2

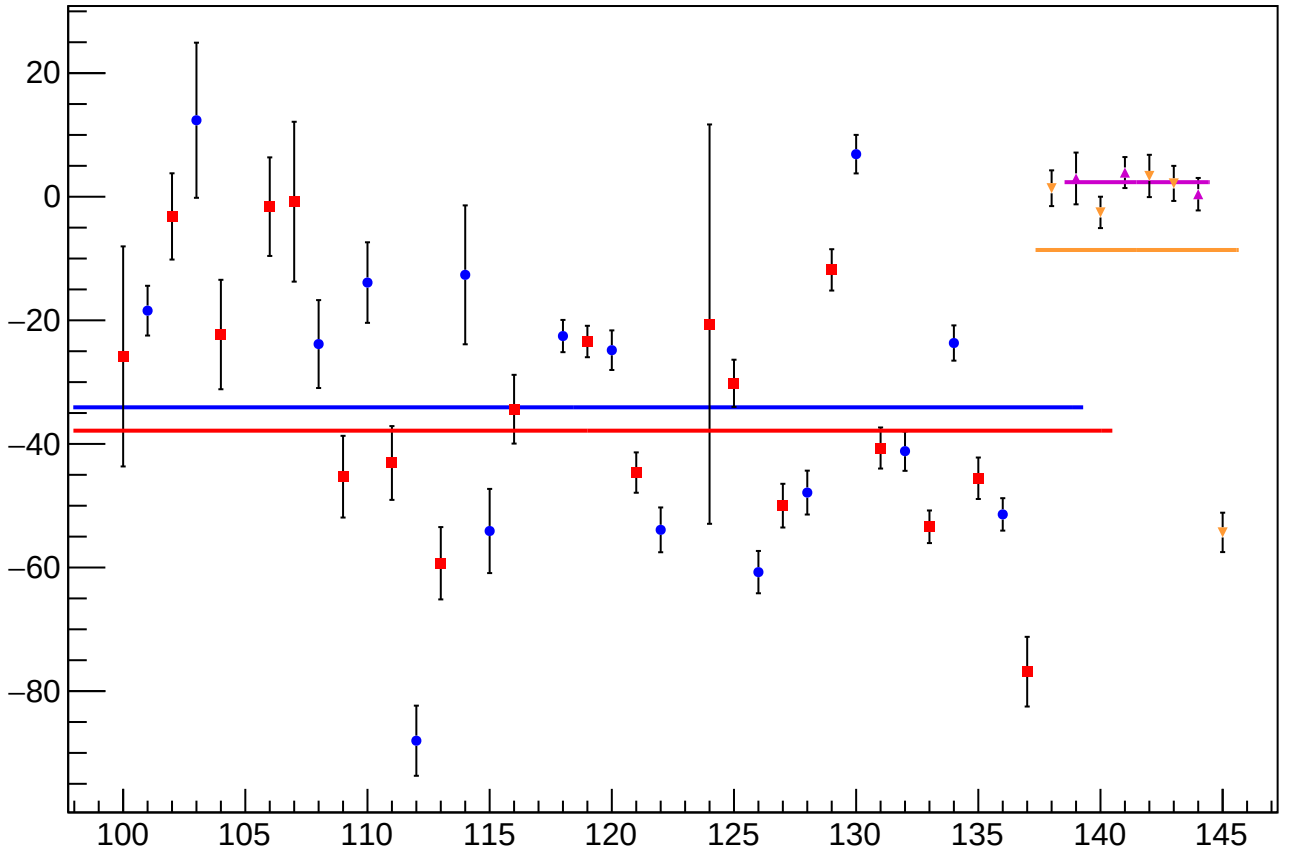
Left: 83.366+/-1.051 $\chi^2$/NDF: 3336.7/7

Right: 77.066+/-0.677 $\chi^2$/NDF: 9194.8/34

In: 80.217+/-0.809 $\chi^2$/NDF:5286.6/18

Out: 77.638+/-0.800 $\chi^2$/NDF:7265.1/23

All: 78.912+/-0.569 $\chi^2$/NDF: 12556.9/42




Right In: -34.077+/-0.942 $\chi^2$/NDF: 511.2/15

Left Out: -8.618+/-1.310 $\chi^2$/NDF:250.0/4

Right Out: -37.855+/-0.994 $\chi^2$/NDF: 274.6/18

Left In: 2.356+/-1.665 $\chi^2$/NDF:1.0/2

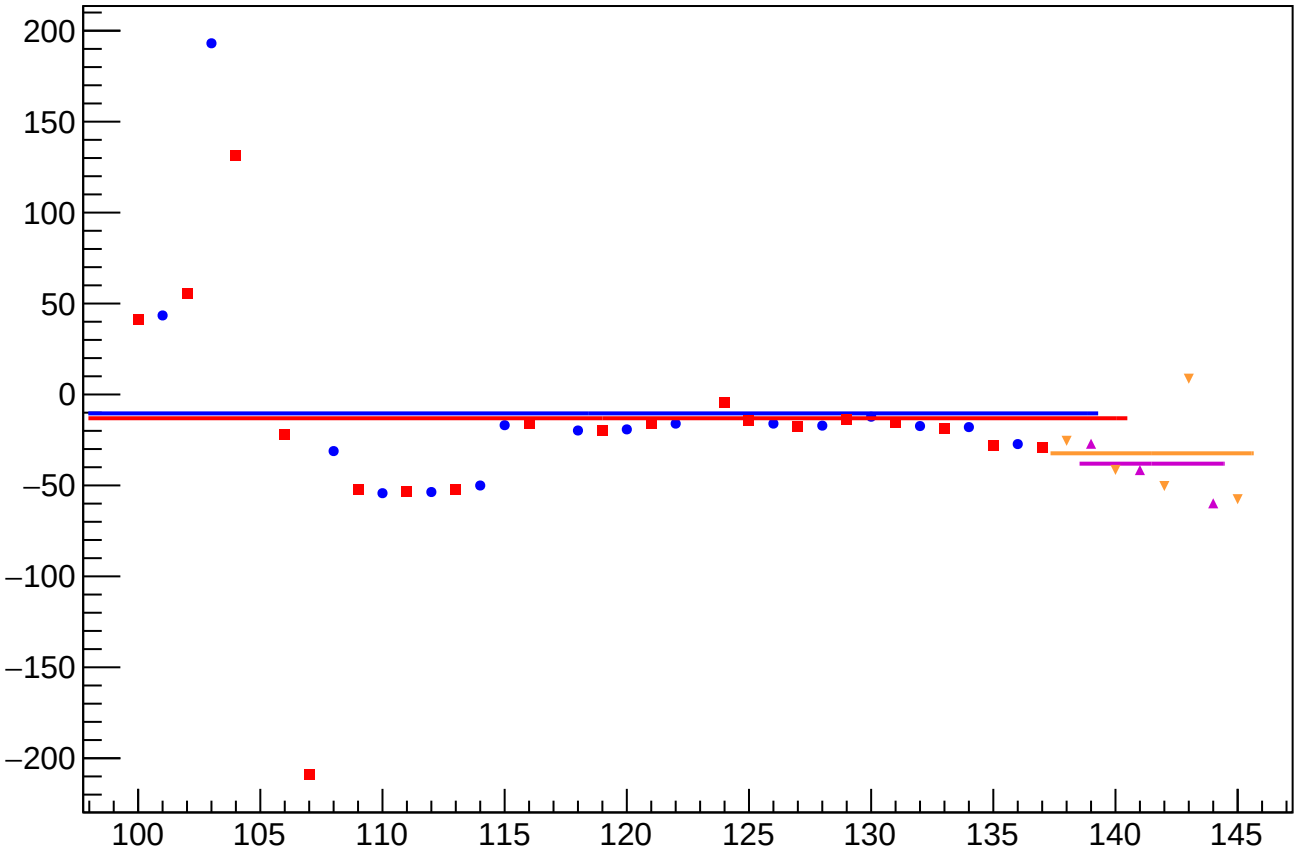
Left: -4.422+/-1.030 $\chi^2$/NDF: 277.7/7

Right: -35.865+/-0.684 $\chi^2$/NDF: 793.4/34

In: -25.240+/-0.820 $\chi^2$/NDF:874.8/18

Out: -27.174+/-0.792 $\chi^2$/NDF:840.8/23

All: -26.241+/-0.570 $\chi^2$/NDF: 1718.5/42




Right In: -10.400+/-0.057 $\chi^2$/NDF: 522334.6/15

Left Out: -32.345+/-0.056 $\chi^2$/NDF:143972.8/4

Right Out: -13.074+/-0.063 $\chi^2$/NDF: 449609.3/18

Left In: -38.043+/-0.064 $\chi^2$/NDF:39825.7/2

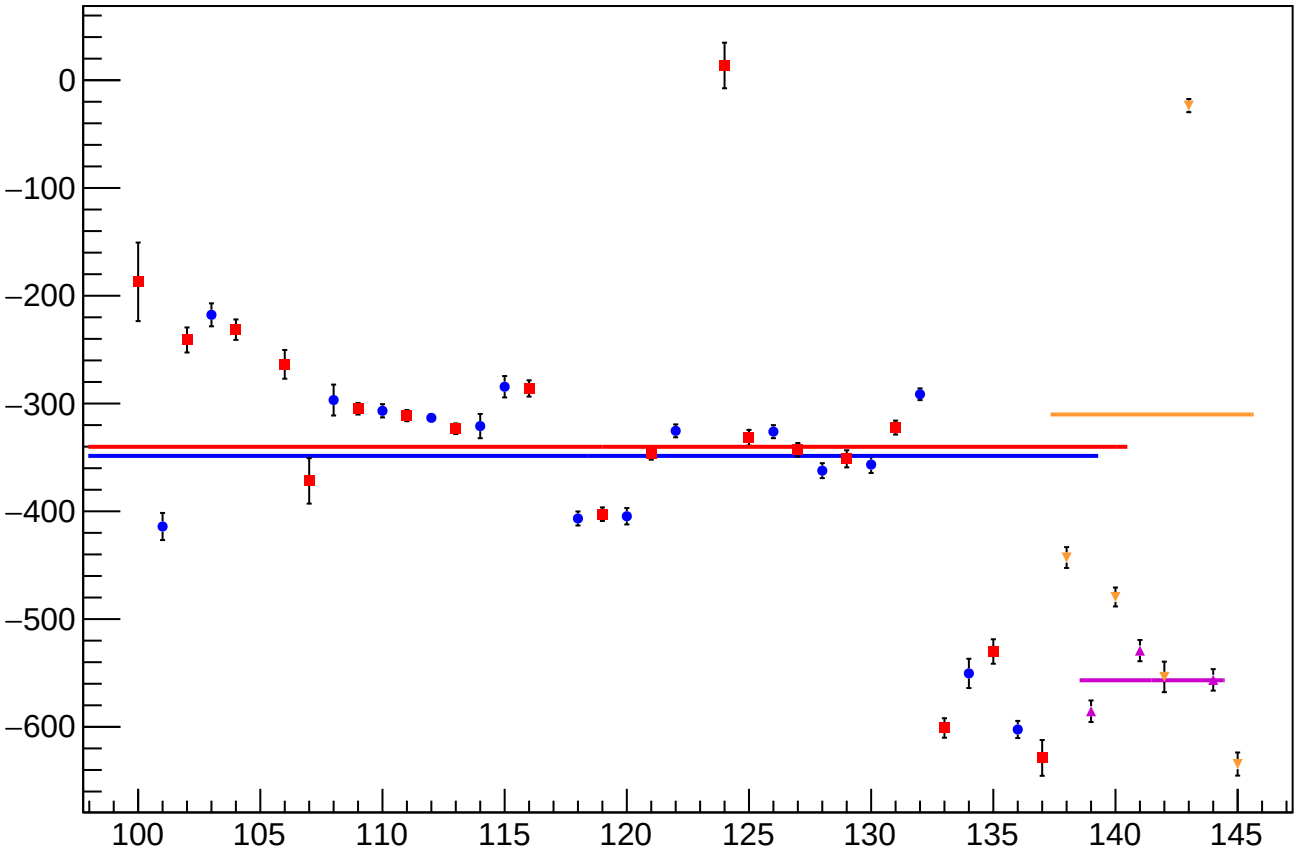
Left: -34.826+/-0.042 $\chi^2$/NDF: 188251.7/7

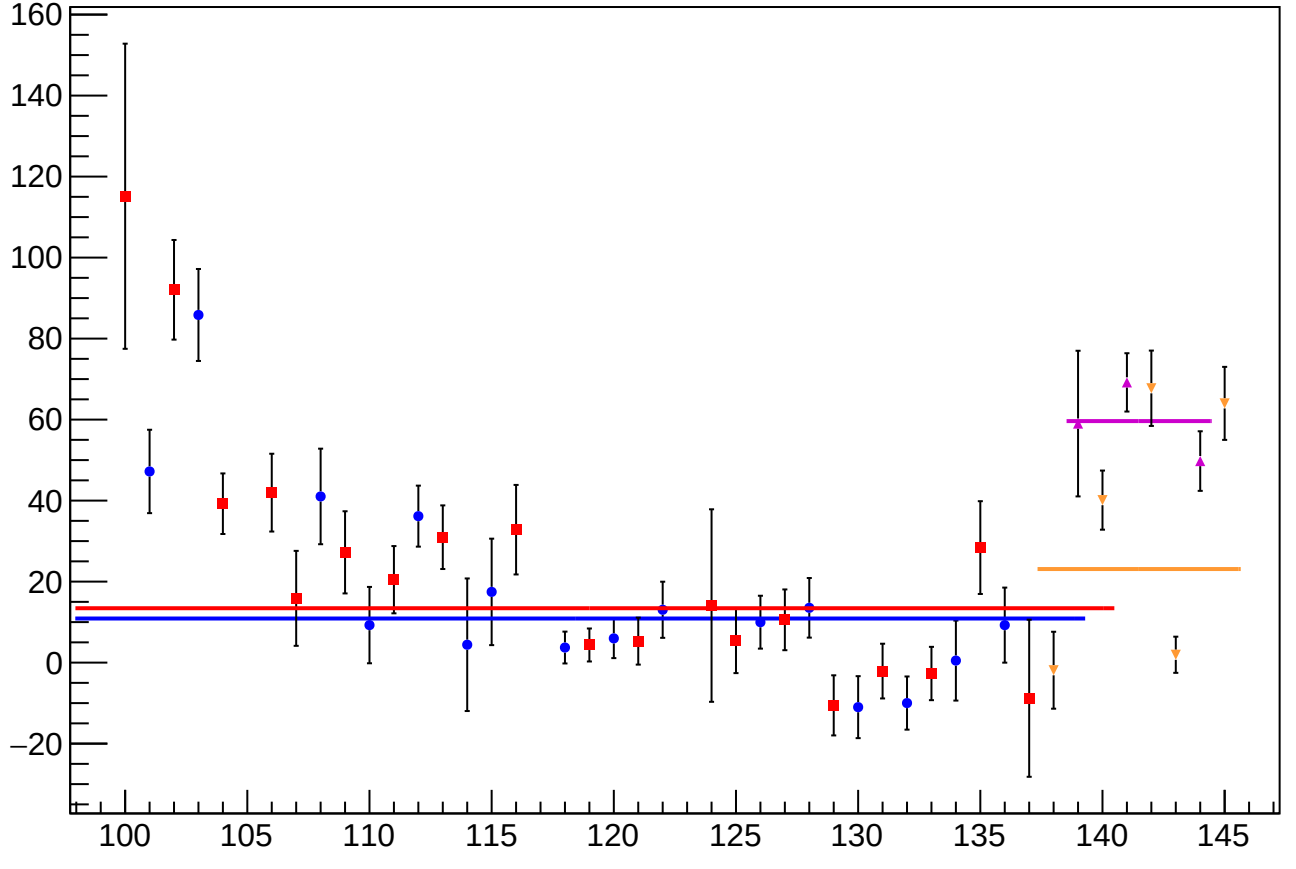
Right: -11.607+/-0.042 $\chi^2$/NDF: 972944.0/34

In: -22.552+/-0.043 $\chi^2$/NDF:666206.4/18

Out: -23.724+/-0.042 $\chi^2$/NDF:645925.8/23

All: -23.147+/-0.030 $\chi^2$/NDF: 1312517.6/42


reg_asym_atl2_diff_bpm1X_slope vs Slug, Sign Corrected
0
−100
−200
−300
−400
−500
−600
100
105
110
115
120
125
130
135
140
145
Right In: -348.586+/-1.825 χ²/NDF: 1858.3/15
Left Out: -310.121+/-3.953 χ²/NDF:3962.1/4
Right Out: -340.144+/-1.759 χ²/NDF: 2197.1/18
Left In: -556.775+/-5.744 χ²/NDF:16.0/2
Left: -389.398+/-3.256 χ²/NDF: 5229.6/7
Right: -344.211+/-1.267 χ²/NDF: 4066.5/34
In: -367.671+/-1.739 χ²/NDF:3067.7/18
Out: -335.180+/-1.607 χ²/NDF:6207.4/23
All: -350.149+/-1.180 χ²/NDF: 9463.3/42




Right In: 10.888+/-1.843 $\chi^2$/NDF: 98.2/15

Left Out: 23.103+/-3.103 $\chi^2$/NDF:78.4/4

Right Out: 13.427+/-1.854 $\chi^2$/NDF: 112.4/18

Left In: 59.633+/-4.948 $\chi^2$/NDF:3.6/2

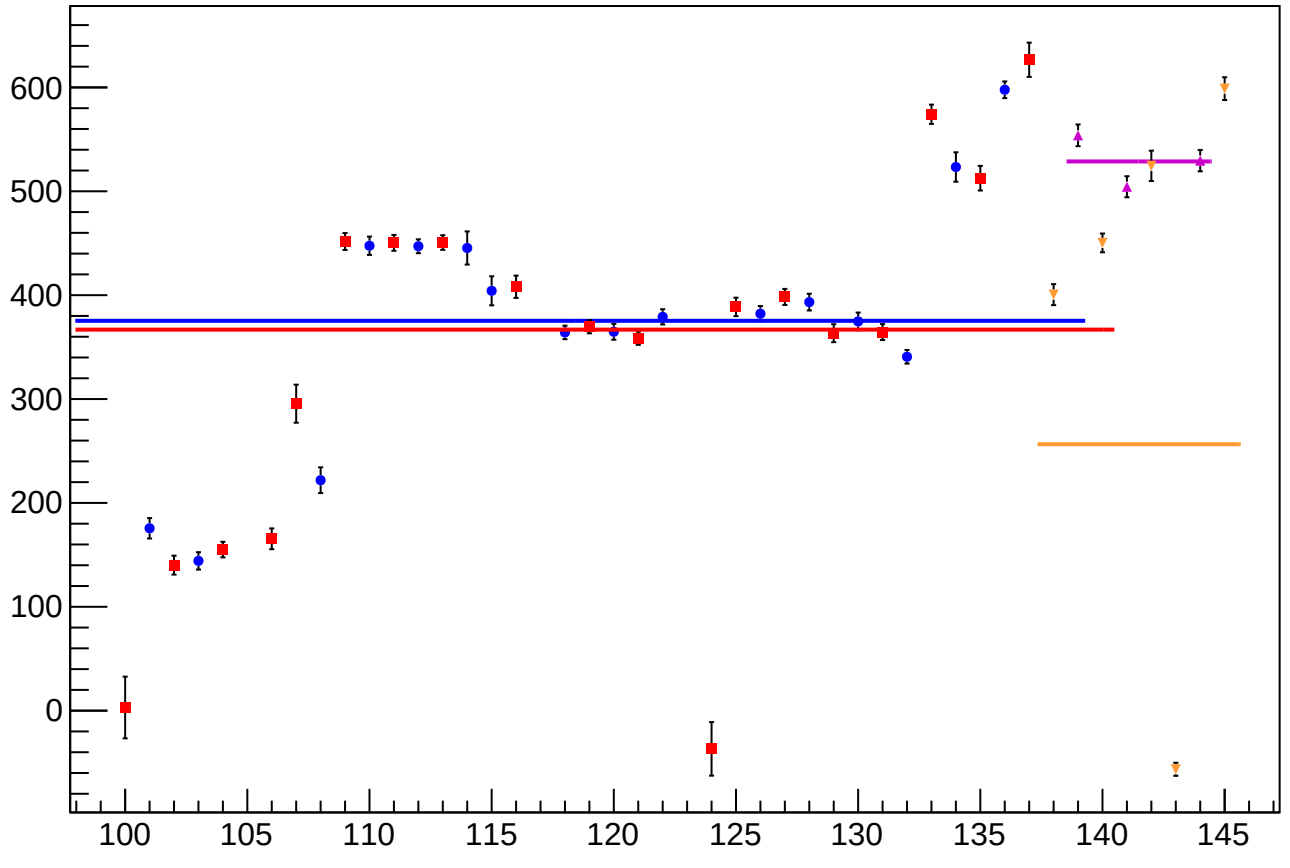
Left: 33.413+/-2.629 $\chi^2$/NDF: 121.1/7

Right: 12.149+/-1.307 $\chi^2$/NDF: 211.6/34

In: 16.826+/-1.727 $\chi^2$/NDF:187.0/18

Out: 15.974+/-1.592 $\chi^2$/NDF:198.0/23

All: 16.365+/-1.170 $\chi^2$/NDF: 385.2/42




Right In: 375.321+/-2.103 $\chi^2$/NDF: 2449.5/15

Left Out: 256.502+/-4.073 $\chi^2$/NDF:4445.2/4

Right Out: 366.830+/-2.049 $\chi^2$/NDF: 3541.1/18

Left In: 528.744+/-5.931 $\chi^2$/NDF:11.6/2

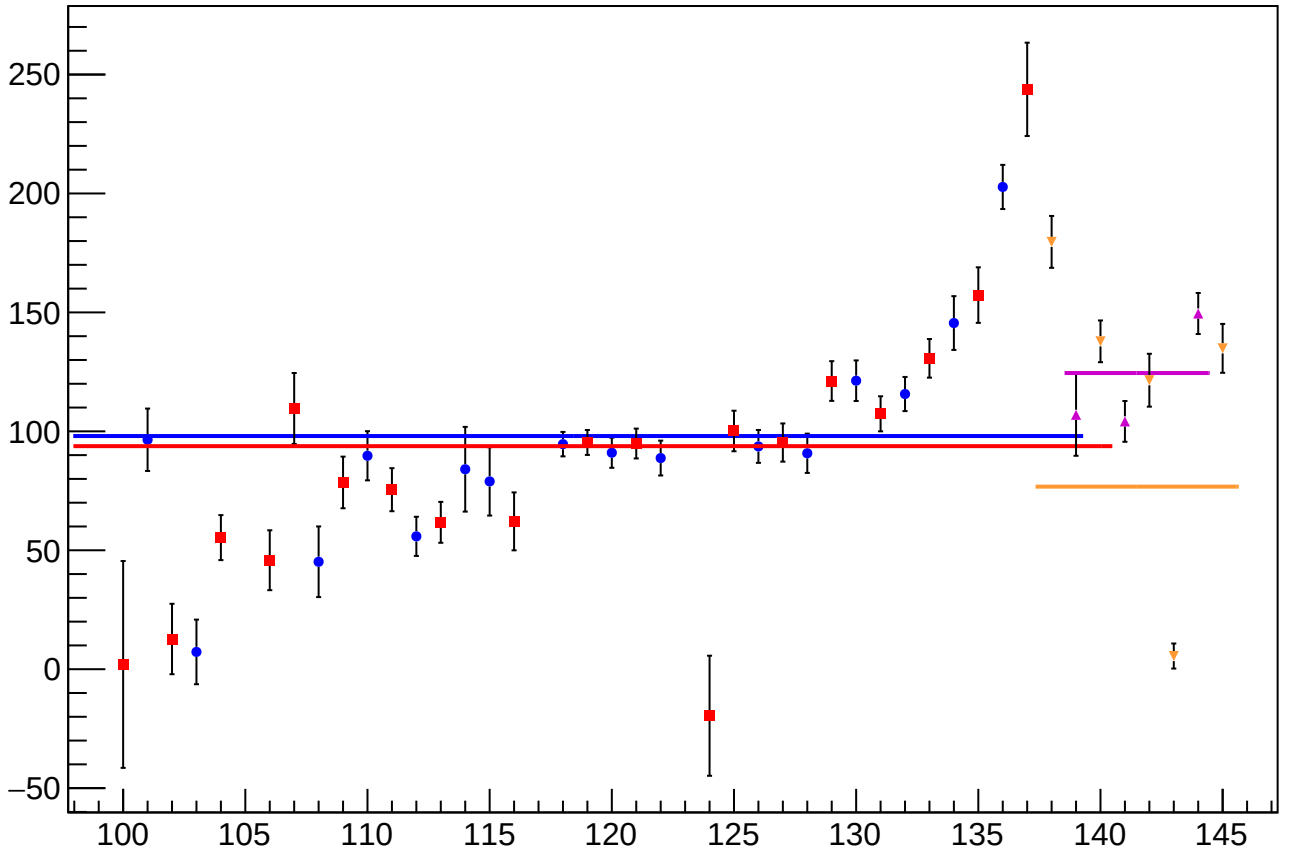
Left: 343.736+/-3.357 $\chi^2$/NDF: 5888.7/7

Right: 370.966+/-1.468 $\chi^2$/NDF: 5998.9/34

In: 392.453+/-1.982 $\chi^2$/NDF:3055.5/18

Out: 344.535+/-1.831 $\chi^2$/NDF:8571.9/23

All: 366.597+/-1.345 $\chi^2$/NDF: 11942.9/42




Right In: 98.021+/-2.144 $\chi^2$/NDF: 249.5/15

Left Out: 76.751+/-3.650 $\chi^2$/NDF:368.8/4

Right Out: 93.771+/-2.138 $\chi^2$/NDF: 237.1/18

Left In: 124.514+/-5.737 $\chi^2$/NDF:15.1/2

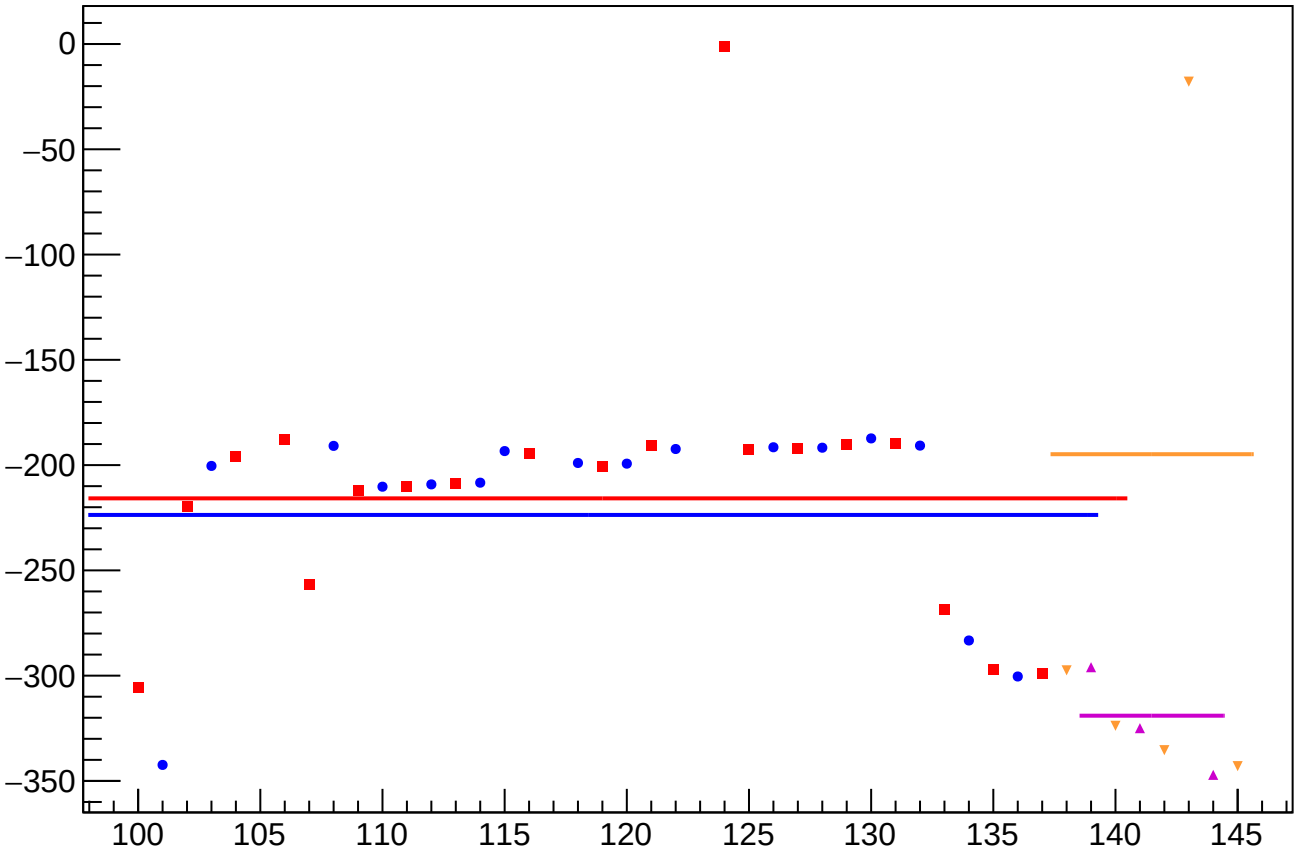
Left: 90.515+/-3.080 $\chi^2$/NDF: 433.2/7

Right: 95.890+/-1.514 $\chi^2$/NDF: 488.6/34

In: 101.268+/-2.008 $\chi^2$/NDF:283.3/18

Out: 89.422+/-1.845 $\chi^2$/NDF:622.1/23

All: 94.844+/-1.359 $\chi^2$/NDF: 924.2/42




Right In: -223.666+/-0.138 $\chi^2$/NDF: 121528.3/15

Left Out: -194.822+/-0.169 $\chi^2$/NDF:795870.2/4

Right Out: -215.797+/-0.134 $\chi^2$/NDF: 81516.6/18

Left In: -319.018+/-0.237 $\chi^2$/NDF:7769.4/2

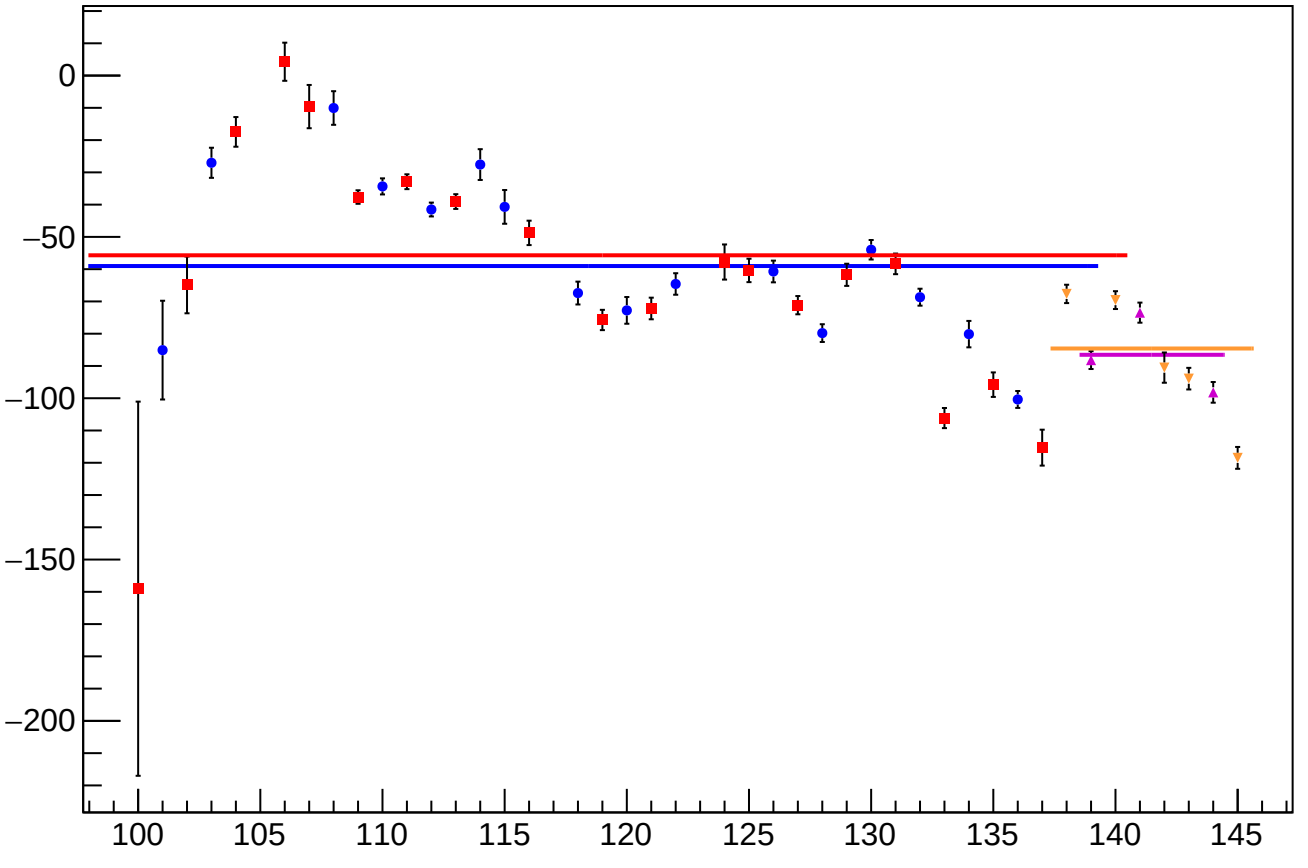
Left: -236.697+/-0.138 $\chi^2$/NDF: 985295.1/7

Right: -219.617+/-0.096 $\chi^2$/NDF: 204711.3/34

In: -247.848+/-0.119 $\chi^2$/NDF:249873.1/18

Out: -207.690+/-0.105 $\chi^2$/NDF:886814.4/23

All: -225.227+/-0.079 $\chi^2$/NDF: 1200330.5/42




Right In: -59.030+/-0.829 $\chi^2$/NDF: 727.3/15

Left Out: -84.587+/-1.449 $\chi^2$/NDF:174.3/4

Right Out: -55.701+/-0.790 $\chi^2$/NDF: 1041.1/18

Left In: -86.539+/-1.736 $\chi^2$/NDF:31.2/2

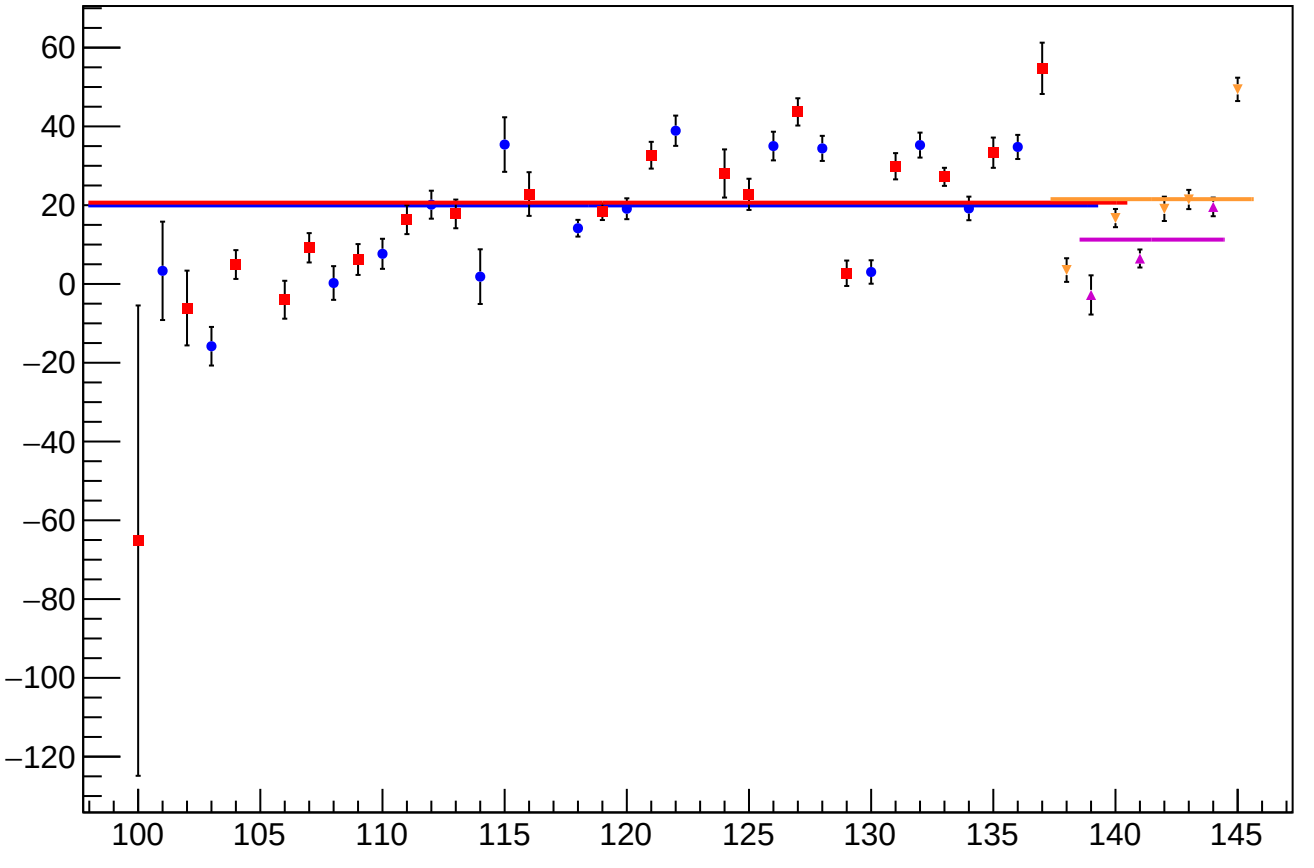
Left: -85.389+/-1.113 $\chi^2$/NDF: 206.2/7

Right: -57.284+/-0.572 $\chi^2$/NDF: 1776.9/34

In: -64.139+/-0.748 $\chi^2$/NDF:962.8/18

Out: -62.320+/-0.694 $\chi^2$/NDF:1521.9/23

All: -63.160+/-0.509 $\chi^2$/NDF: 2487.9/42




Right In: 19.946+/-0.867 $\chi^2$/NDF: 247.2/15

Left Out: 21.529+/-1.208 $\chi^2$/NDF:129.3/4

Right Out: 20.643+/-0.844 $\chi^2$/NDF: 224.8/18

Left In: 11.258+/-1.562 $\chi^2$/NDF:24.7/2

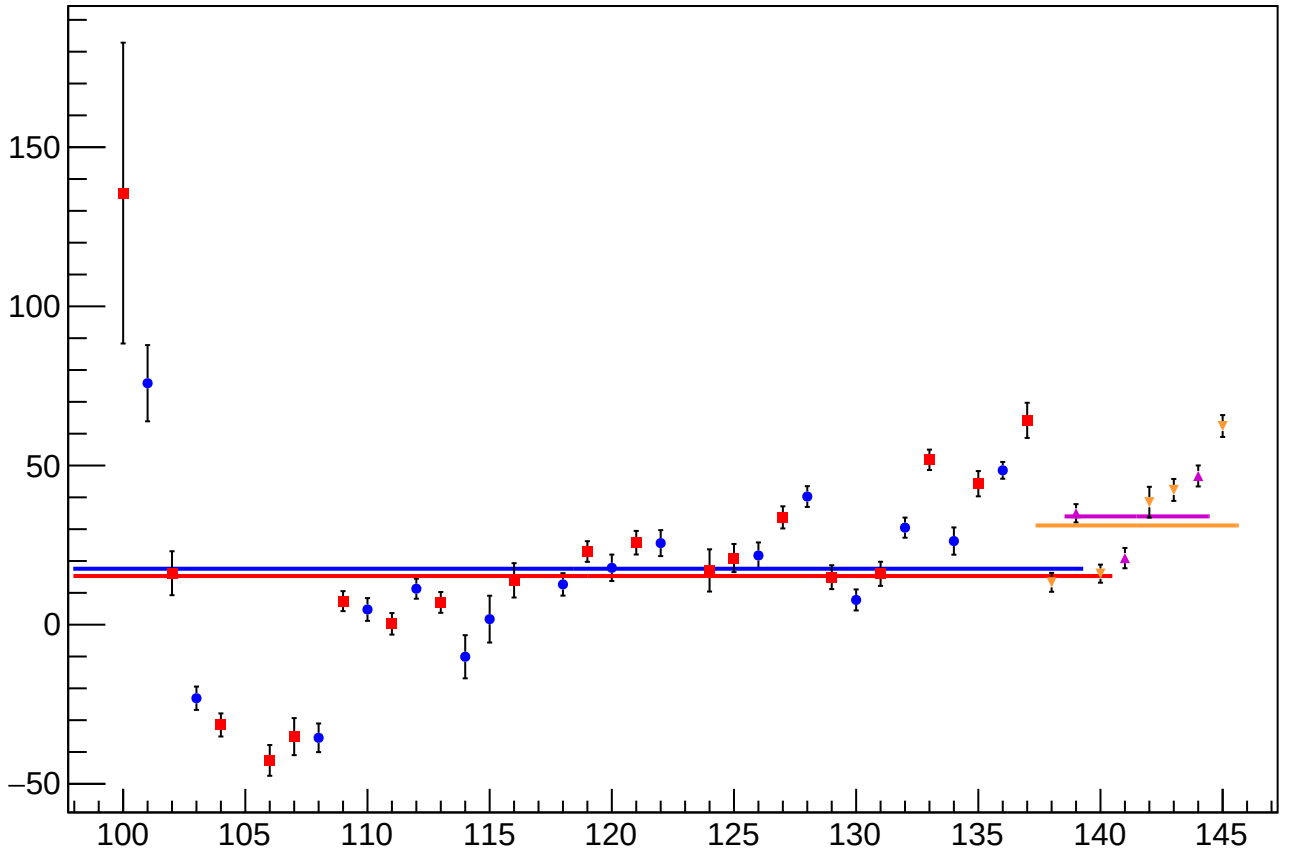
Left: 17.684+/-0.956 $\chi^2$/NDF: 181.0/7

Right: 20.304+/-0.605 $\chi^2$/NDF: 472.3/34

In: 17.899+/-0.758 $\chi^2$/NDF:295.5/18

Out: 20.933+/-0.692 $\chi^2$/NDF:354.4/23

All: 19.555+/-0.511 $\chi^2$/NDF: 658.7/42




Right In: 17.574+/-0.957 $\chi^2$/NDF: 546.2/15

Left Out: 31.170+/-1.492 $\chi^2$/NDF:160.1/4

Right Out: 15.283+/-0.934 $\chi^2$/NDF: 730.0/18

Left In: 34.015+/-1.794 $\chi^2$/NDF:31.8/2

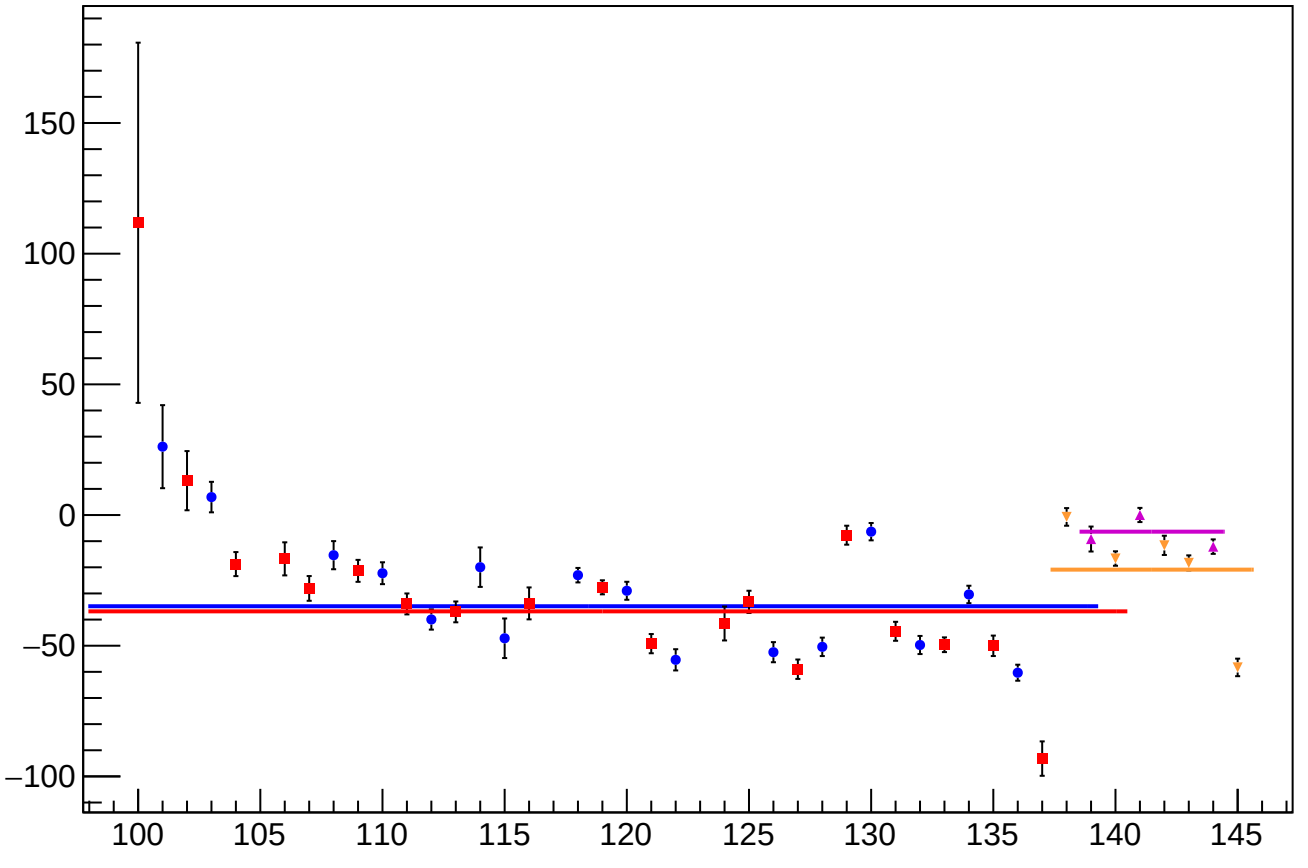
Left: 32.333+/-1.147 $\chi^2$/NDF: 193.3/7

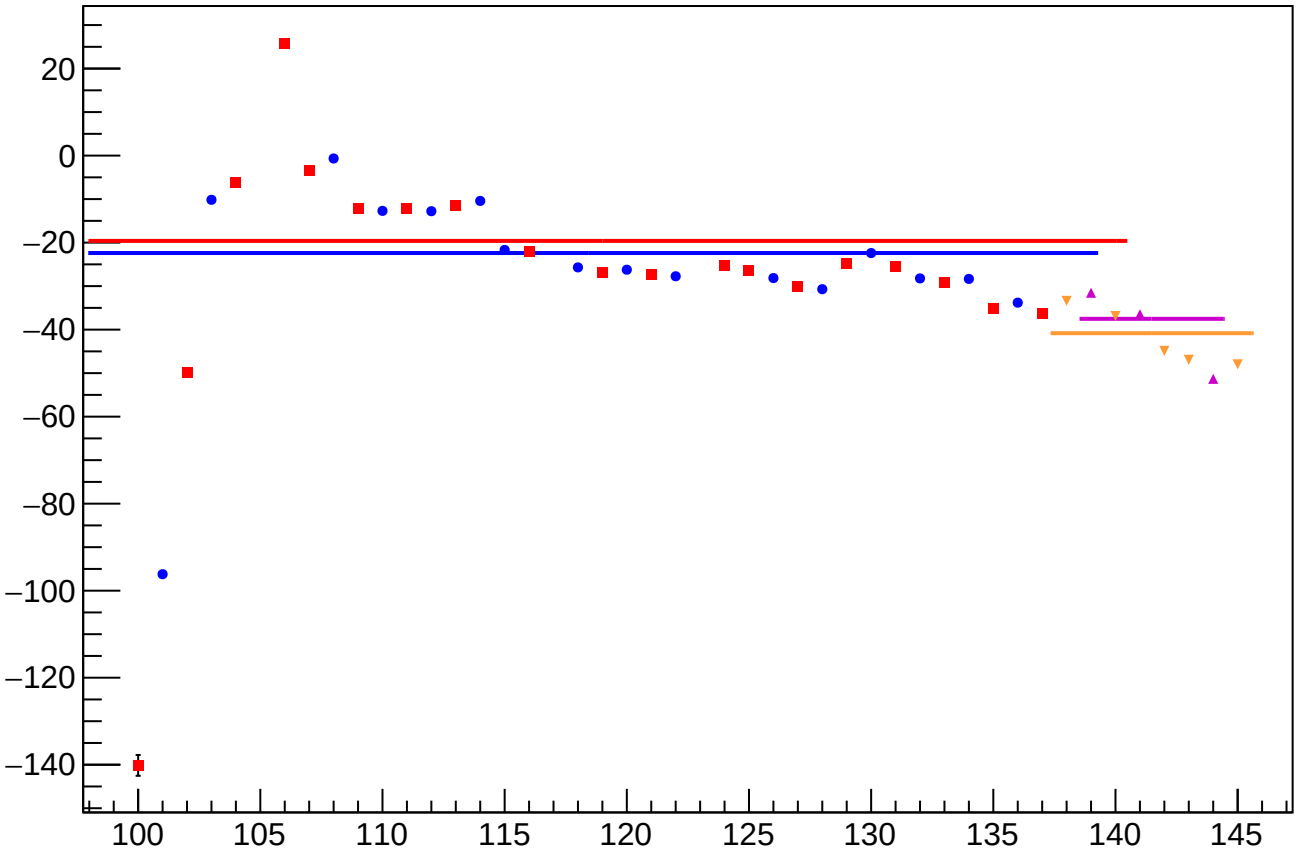
Right: 16.401+/-0.668 $\chi^2$/NDF: 1279.2/34

In: 21.213+/-0.844 $\chi^2$/NDF:643.3/18

Out: 19.754+/-0.792 $\chi^2$/NDF:971.5/23

All: 20.437+/-0.577 $\chi^2$/NDF: 1616.5/42


reg_asym_atr1_diff_bpm4eY_slope vs Slug, Sign Corrected
150
100
50
0
−50
−100
100
105
110
115
120
125
130
135
140
145
Right In: -34.899+/-0.990 χ²/NDF: 346.6/15
Left Out: -20.890+/-1.412 χ²/NDF:169.7/4
Right Out: -36.853+/-0.970 χ²/NDF: 301.4/18
Left In: -6.367+/-1.797 χ²/NDF:10.1/2
Left: -15.347+/-1.110 χ²/NDF: 220.2/7
Right: -35.897+/-0.693 χ²/NDF: 650.0/34
In: -28.251+/-0.867 χ²/NDF:550.2/18
Out: -31.737+/-0.799 χ²/NDF:558.0/23
All: -30.136+/-0.588 χ²/NDF: 1116.9/42




Right In: -22.394+/-0.058 $\chi^2$/NDF: 46519.7/15

Left Out: -40.819+/-0.061 $\chi^2$/NDF:10069.0/4

Right Out: -19.605+/-0.059 $\chi^2$/NDF: 83865.7/18

Left In: -37.520+/-0.071 $\chi^2$/NDF:12193.8/2

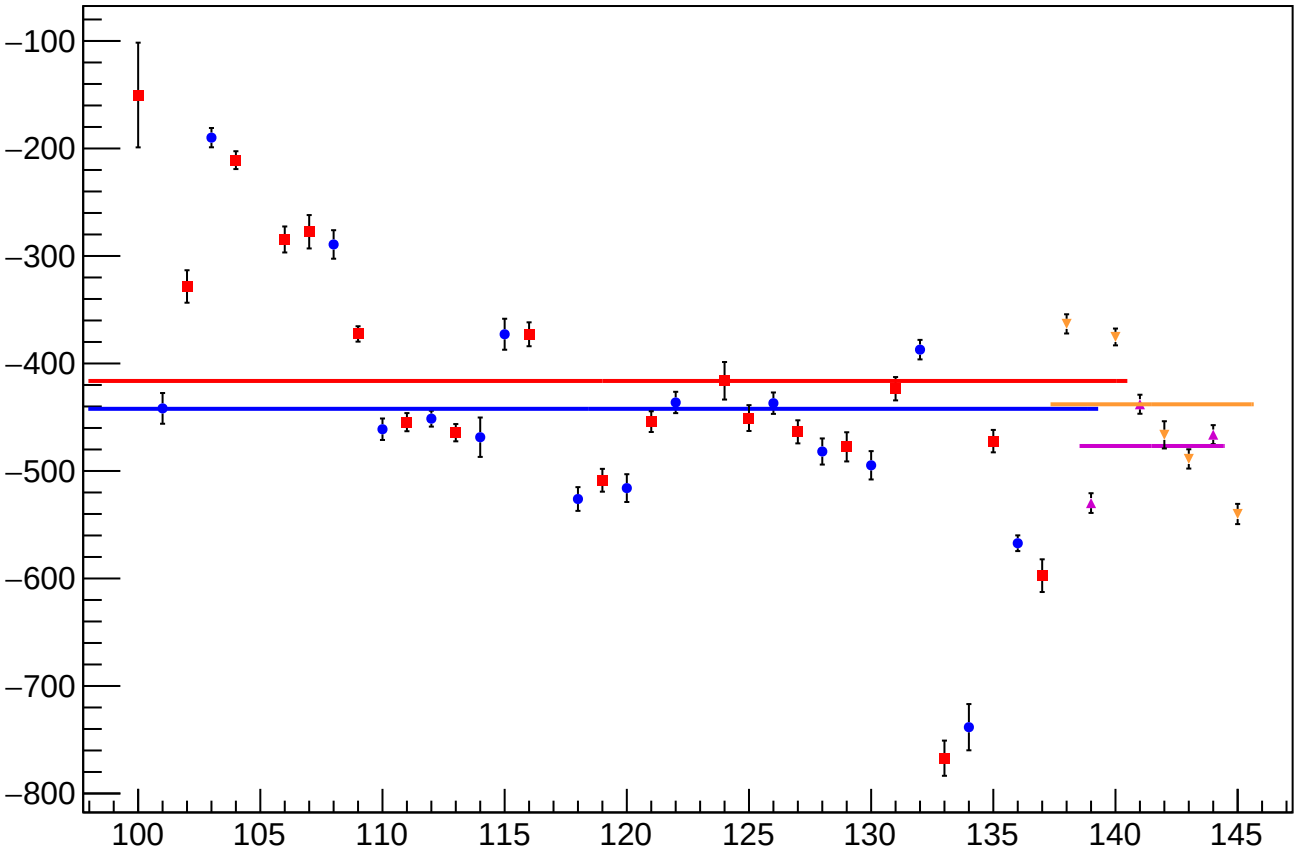
Left: -39.402+/-0.046 $\chi^2$/NDF: 23503.4/7

Right: -21.027+/-0.042 $\chi^2$/NDF: 131507.1/34

In: -28.508+/-0.045 $\chi^2$/NDF:85932.2/18

Out: -29.869+/-0.043 $\chi^2$/NDF:155545.8/23

All: -29.224+/-0.031 $\chi^2$/NDF: 241959.7/42




Right In: -442.182+/-2.682 $\chi^2$/NDF: 1589.1/15

Left Out: -437.971+/-4.122 $\chi^2$/NDF:289.0/4

Right Out: -416.259+/-2.523 $\chi^2$/NDF: 1753.8/18

Left In: -476.751+/-5.166 $\chi^2$/NDF:54.2/2

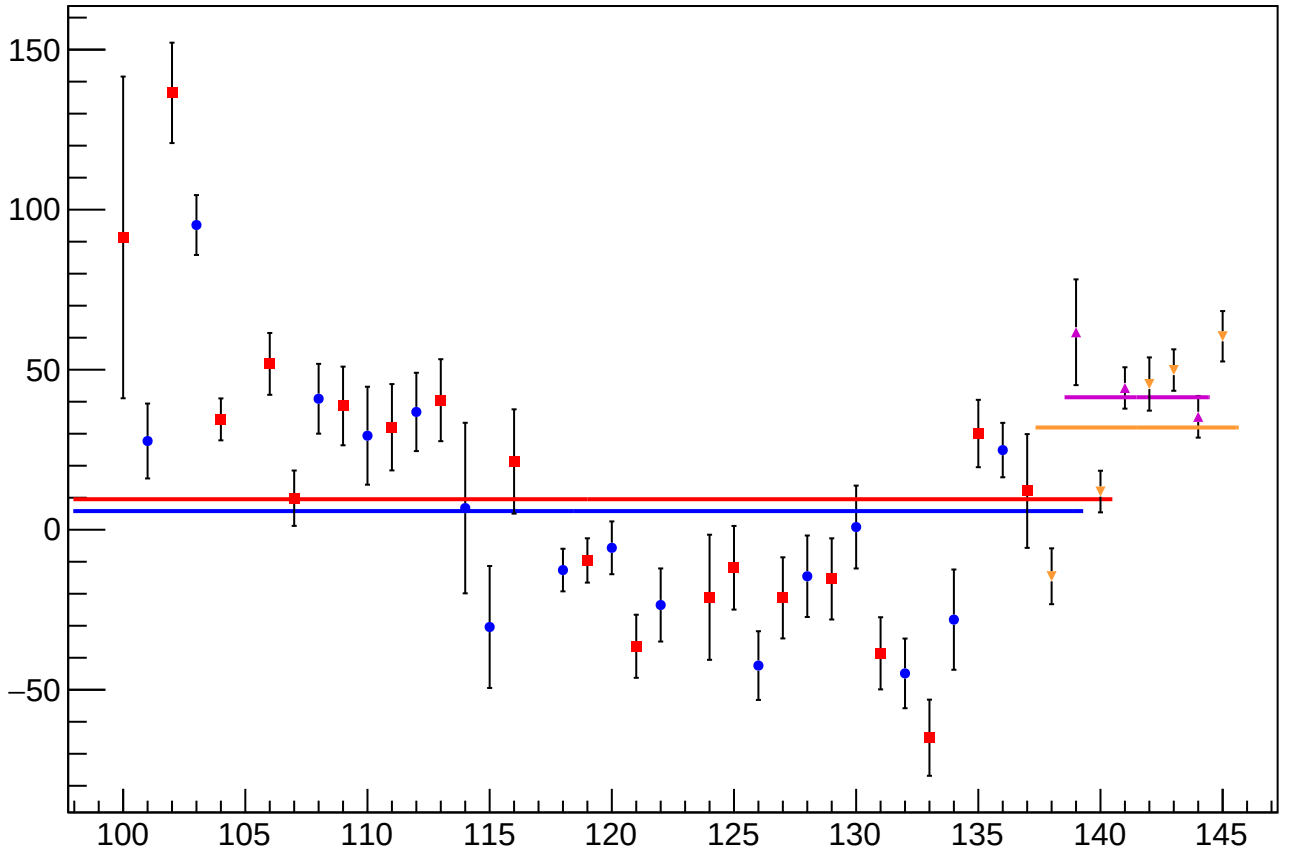
Left: -453.057+/-3.222 $\chi^2$/NDF: 377.6/7

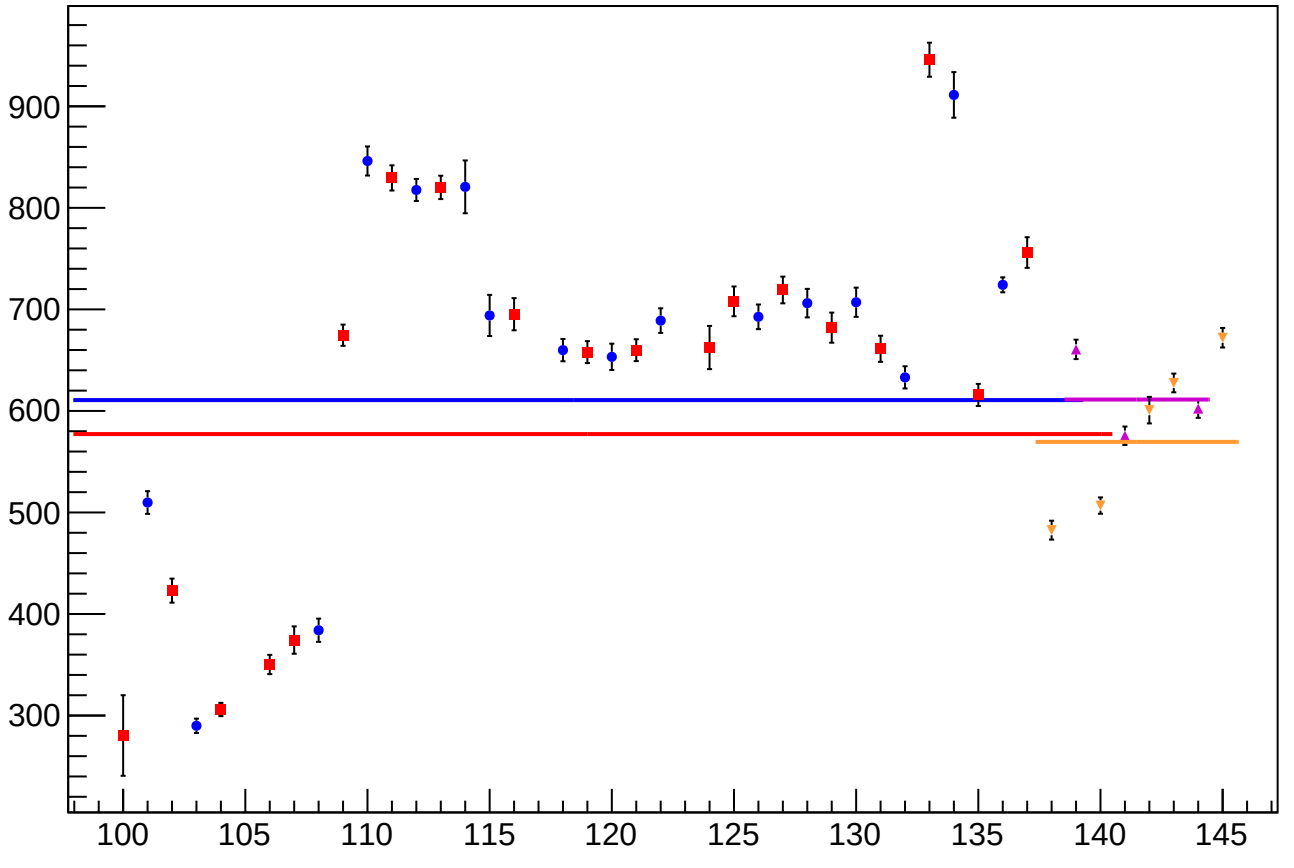
Right: -428.429+/-1.837 $\chi^2$/NDF: 3392.5/34

In: -449.520+/-2.380 $\chi^2$/NDF:1678.6/18

Out: -422.174+/-2.152 $\chi^2$/NDF:2063.0/23

All: -434.472+/-1.596 $\chi^2$/NDF: 3814.2/42


reg_asym_atr2_diff_bpm4aY_slope vs Slug, Sign Corrected
150
100
50
0
−50
100
105
110
115
120
125
130
135
140
145
Right In: 5.824+/-2.728 χ²/NDF: 188.1/15
Left Out: 31.942+/-3.311 χ²/NDF:61.3/4
Right Out: 9.536+/-2.556 χ²/NDF: 222.2/18
Left In: 41.391+/-4.421 χ²/NDF:2.6/2
Left: 35.337+/-2.650 χ²/NDF: 66.8/7
Right: 7.800+/-1.865 χ²/NDF: 411.3/34
In: 15.633+/-2.322 χ²/NDF:237.6/18
Out: 17.905+/-2.023 χ²/NDF:312.2/23
All: 16.924+/-1.525 χ²/NDF: 550.3/42




Right In: 610.665+/-2.892 $\chi^2$/NDF: 3892.6/15

Left Out: 569.515+/-4.249 $\chi^2$/NDF:306.6/4

Right Out: 577.205+/-2.755 $\chi^2$/NDF: 4800.3/18

Left In: 611.212+/-5.333 $\chi^2$/NDF:43.1/2

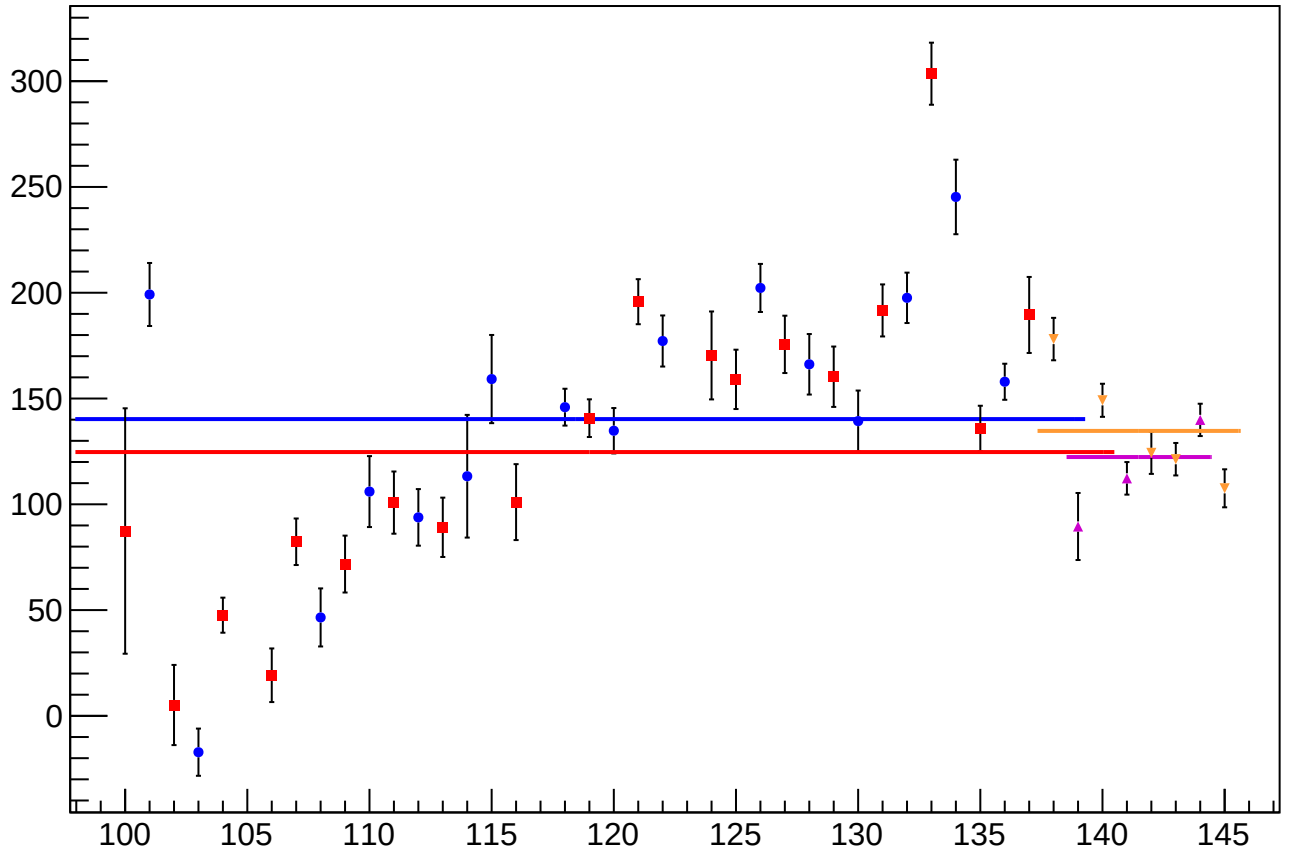
Left: 585.706+/-3.323 $\chi^2$/NDF: 387.1/7

Right: 593.122+/-1.995 $\chi^2$/NDF: 8763.0/34

In: 610.790+/-2.543 $\chi^2$/NDF:3935.6/18

Out: 574.929+/-2.312 $\chi^2$/NDF:5109.2/23

All: 591.158+/-1.710 $\chi^2$/NDF: 9153.8/42




Right In: 140.278+/-3.151 $\chi^2$/NDF: 385.4/15

Left Out: 134.691+/-3.898 $\chi^2$/NDF:35.4/4

Right Out: 124.697+/-2.979 $\chi^2$/NDF: 508.5/18

Left In: 122.341+/-5.130 $\chi^2$/NDF:11.3/2

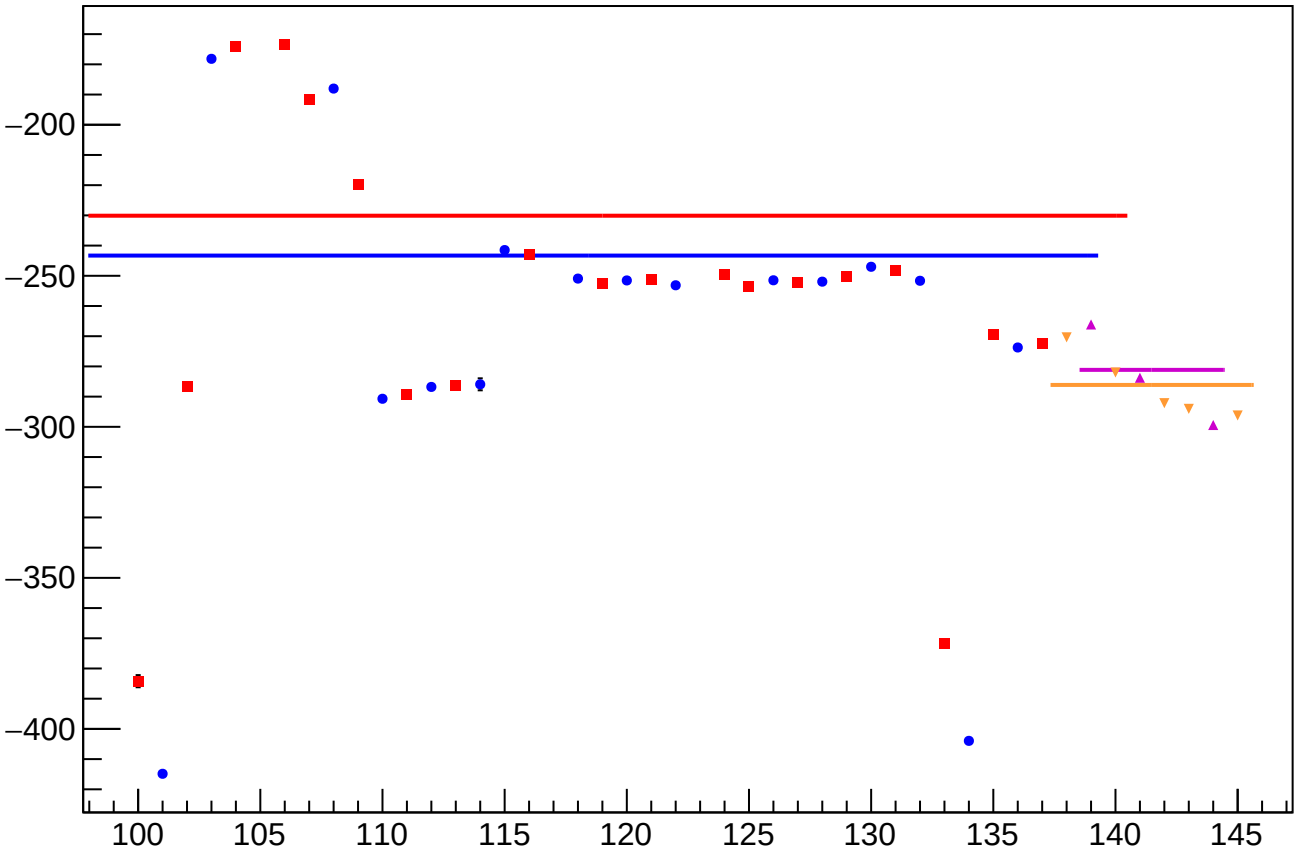
Left: 130.171+/-3.104 $\chi^2$/NDF: 50.4/7

Right: 132.049+/-2.165 $\chi^2$/NDF: 906.8/34

In: 135.365+/-2.685 $\chi^2$/NDF:405.5/18

Out: 128.381+/-2.367 $\chi^2$/NDF:548.1/23

All: 131.434+/-1.775 $\chi^2$/NDF: 957.5/42




Right In: -243.308+/-0.163 $\chi^2$/NDF: 173487.9/15

Left Out: -286.132+/-0.177 $\chi^2$/NDF:3144.5/4

Right Out: -230.109+/-0.157 $\chi^2$/NDF: 102451.2/18

Left In: -281.142+/-0.214 $\chi^2$/NDF:3999.6/2

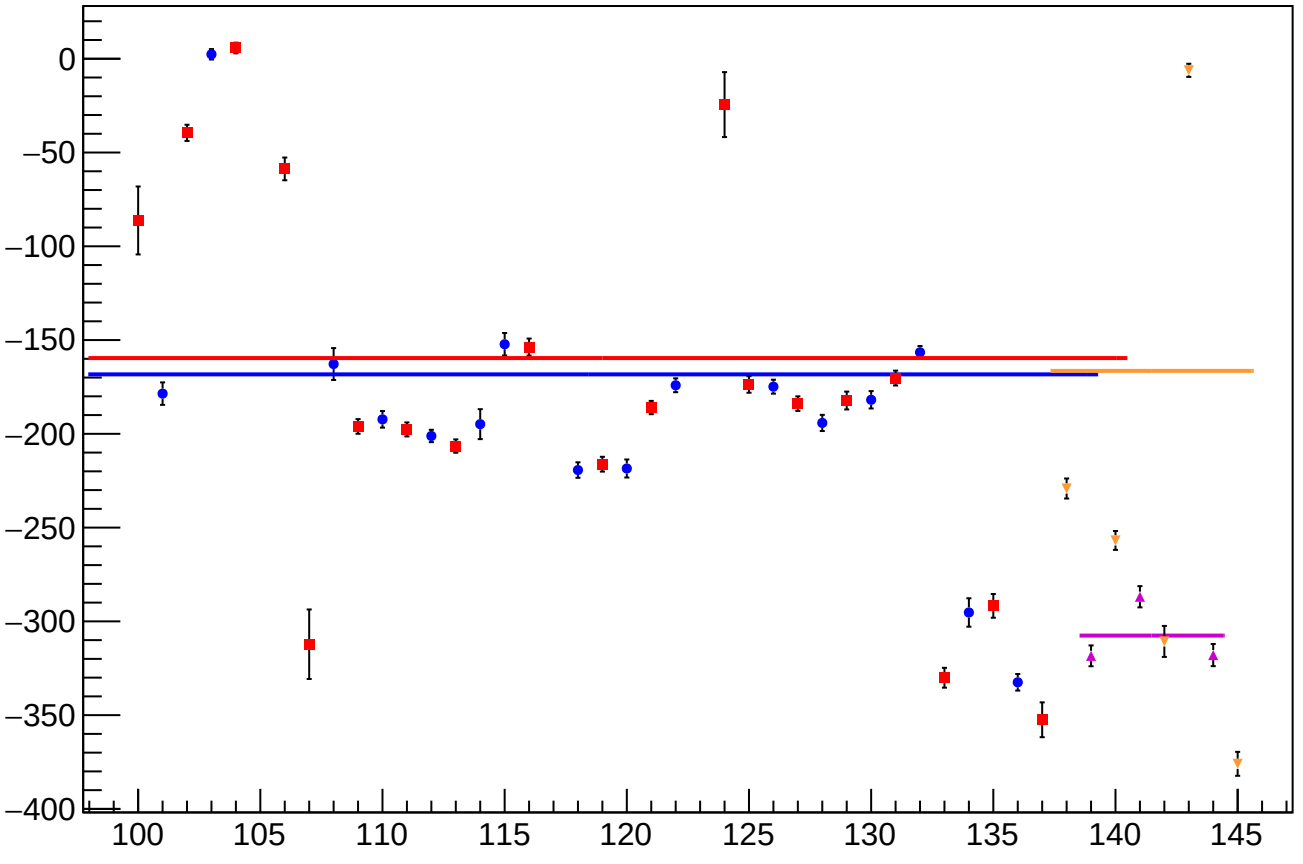
Left: -284.107+/-0.136 $\chi^2$/NDF: 7466.9/7

Right: -236.496+/-0.113 $\chi^2$/NDF: 279343.3/34

In: -257.140+/-0.129 $\chi^2$/NDF:197302.7/18

Out: -254.857+/-0.118 $\chi^2$/NDF:161579.4/23

All: -255.889+/-0.087 $\chi^2$/NDF: 359052.6/42




Right In: -168.291+/-1.076 $\chi^2$/NDF: 5907.6/15

Left Out: -166.433+/-2.266 $\chi^2$/NDF:3927.3/4

Right Out: -159.602+/-1.042 $\chi^2$/NDF: 7197.9/18

Left In: -307.578+/-3.294 $\chi^2$/NDF:20.3/2

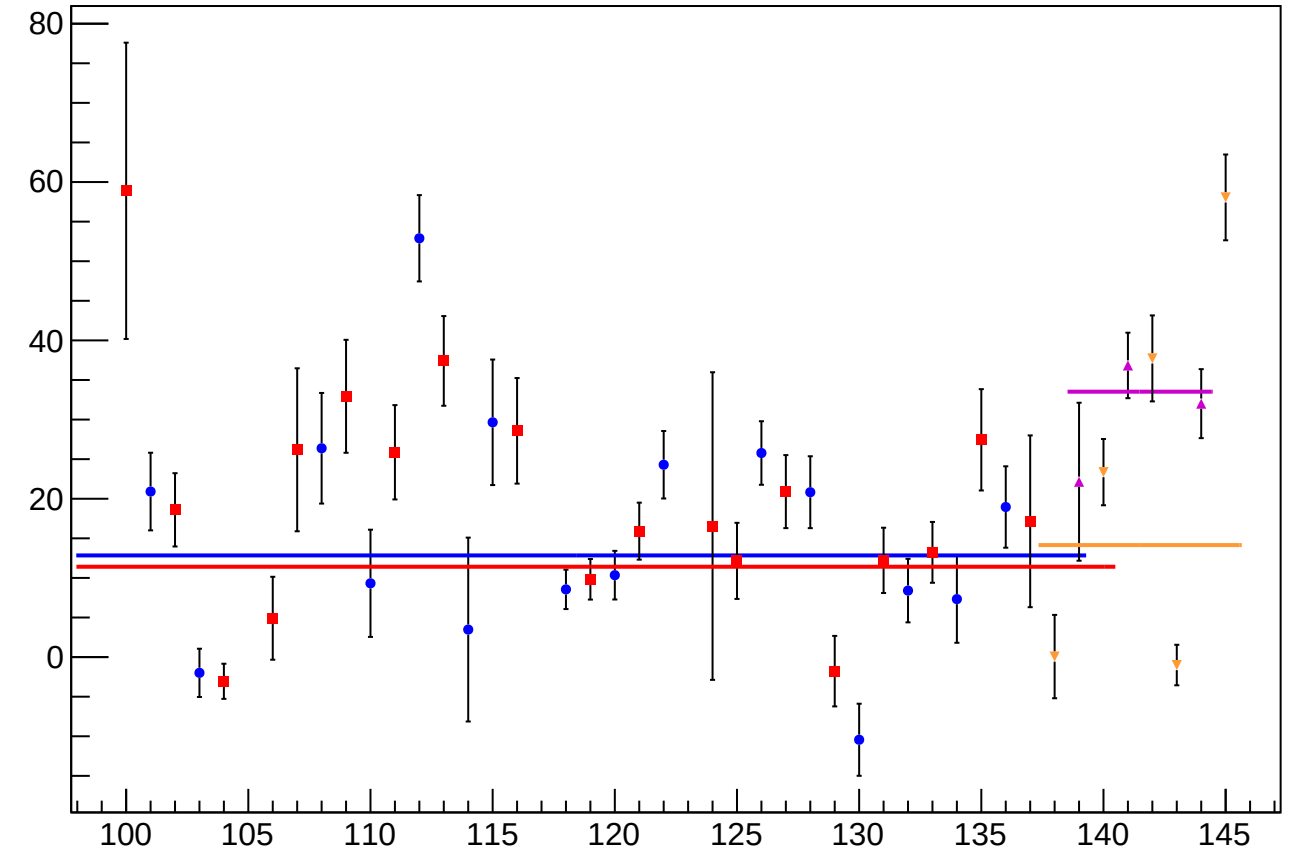
Left: -211.771+/-1.867 $\chi^2$/NDF: 5194.0/7

Right: -163.809+/-0.749 $\chi^2$/NDF: 13139.1/34

In: -181.717+/-1.023 $\chi^2$/NDF:7543.8/18

Out: -160.795+/-0.947 $\chi^2$/NDF:11132.6/23

All: -170.453+/-0.695 $\chi^2$/NDF: 18901.7/42




Right In: 12.842+/-1.076 $\chi^2$/NDF: 143.7/15

Left Out: 14.148+/-1.785 $\chi^2$/NDF:131.6/4

Right Out: 11.414+/-1.035 $\chi^2$/NDF: 119.6/18

Left In: 33.522+/-2.872 $\chi^2$/NDF:2.1/2

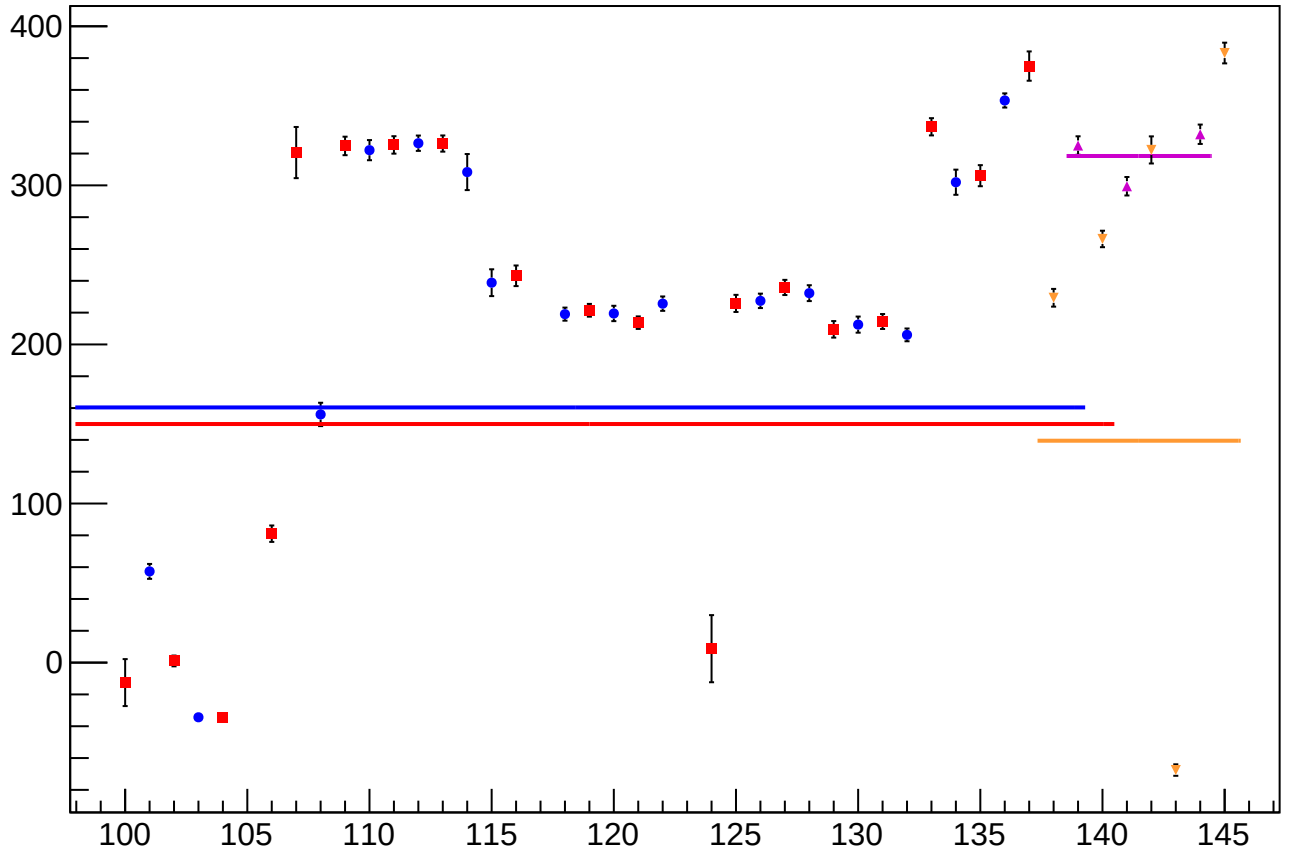
Left: 19.546+/-1.516 $\chi^2$/NDF: 166.5/7

Right: 12.100+/-0.746 $\chi^2$/NDF: 264.2/34

In: 15.389+/-1.008 $\chi^2$/NDF:191.2/18

Out: 12.102+/-0.896 $\chi^2$/NDF:252.9/23

All: 13.552+/-0.670 $\chi^2$/NDF: 450.1/42




Right In: 160.407+/-1.139 $\chi^2$/NDF: 13949.8/15

Left Out: 139.481+/-2.334 $\chi^2$/NDF:6010.4/4

Right Out: 149.974+/-1.107 $\chi^2$/NDF: 16265.2/18

Left In: 318.461+/-3.402 $\chi^2$/NDF:17.1/2

Left: 196.764+/-1.925 $\chi^2$/NDF: 7909.4/7

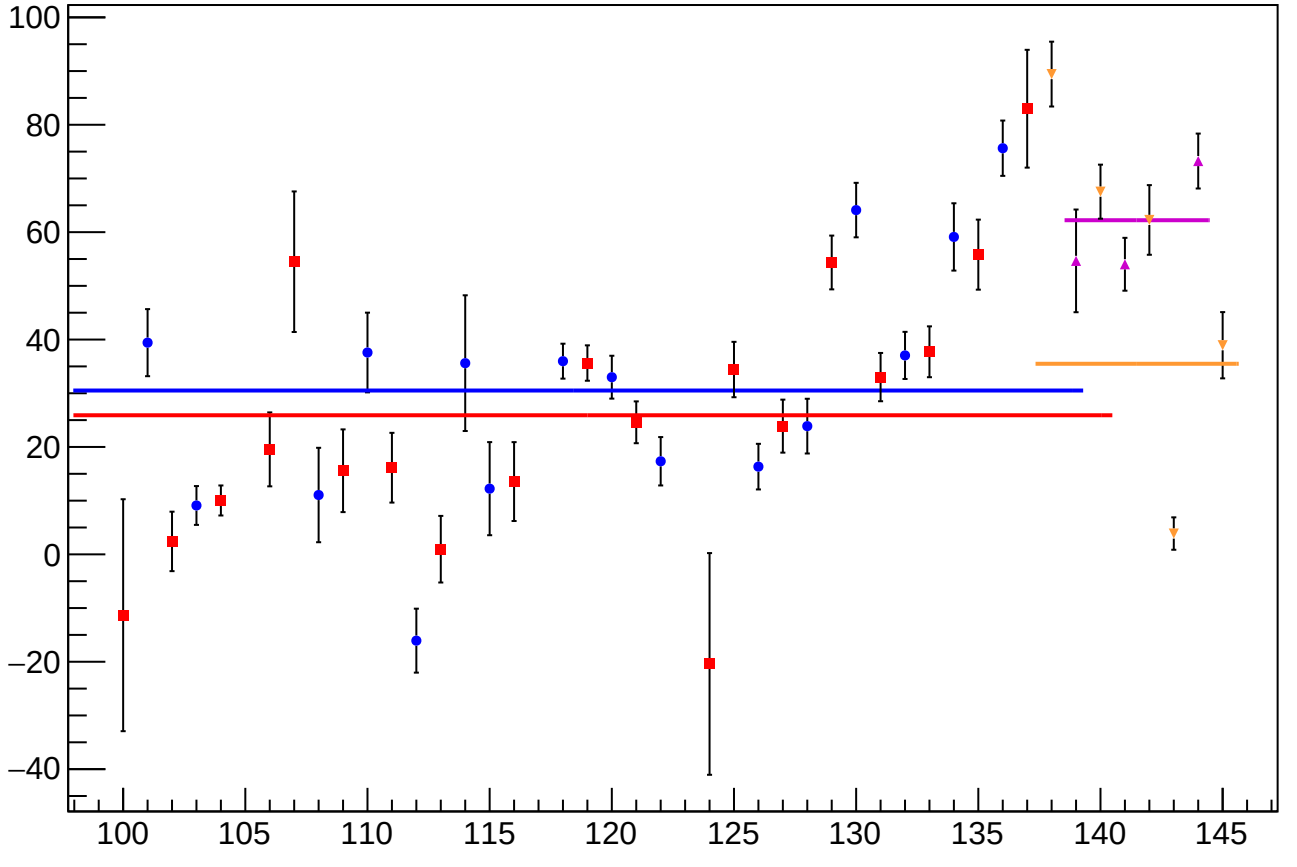
Right: 155.041+/-0.794 $\chi^2$/NDF: 30258.1/34

In: 176.337+/-1.080 $\chi^2$/NDF:15907.7/18

Out: 148.048+/-1.000 $\chi^2$/NDF:22292.1/23

All: 161.105+/-0.734 $\chi^2$/NDF: 38569.1/42

reg_asym_atl_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 30.510+/-1.255 $\chi^2$/NDF: 276.9/15

Left Out: 35.489+/-2.100 $\chi^2$/NDF:247.6/4

Right Out: 25.903+/-1.213 $\chi^2$/NDF: 187.8/18

Left In: 62.223+/-3.325 $\chi^2$/NDF:8.0/2

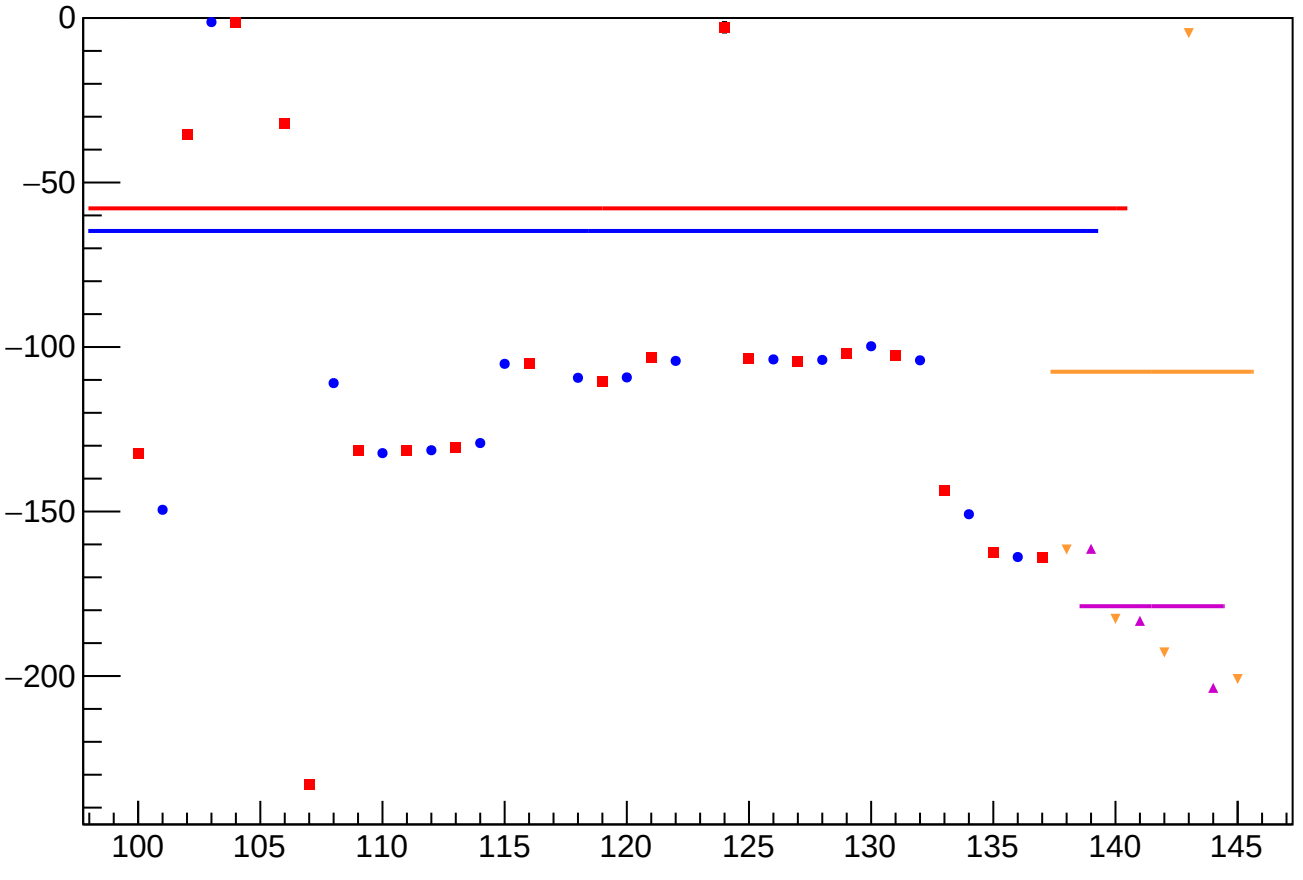
Left: 43.110+/-1.775 $\chi^2$/NDF: 301.9/7

Right: 28.129+/-0.872 $\chi^2$/NDF: 471.7/34

In: 34.462+/-1.174 $\chi^2$/NDF:364.6/18

Out: 28.302+/-1.050 $\chi^2$/NDF:451.0/23

All: 31.041+/-0.783 $\chi^2$/NDF: 830.9/42




Right In: -64.726+/-0.064 $\chi^2$/NDF: 1044441.7/15

Left Out: -107.511+/-0.097 $\chi^2$/NDF:826363.9/4

Right Out: -57.855+/-0.062 $\chi^2$/NDF: 875795.9/18

Left In: -178.781+/-0.135 $\chi^2$/NDF:15772.9/2

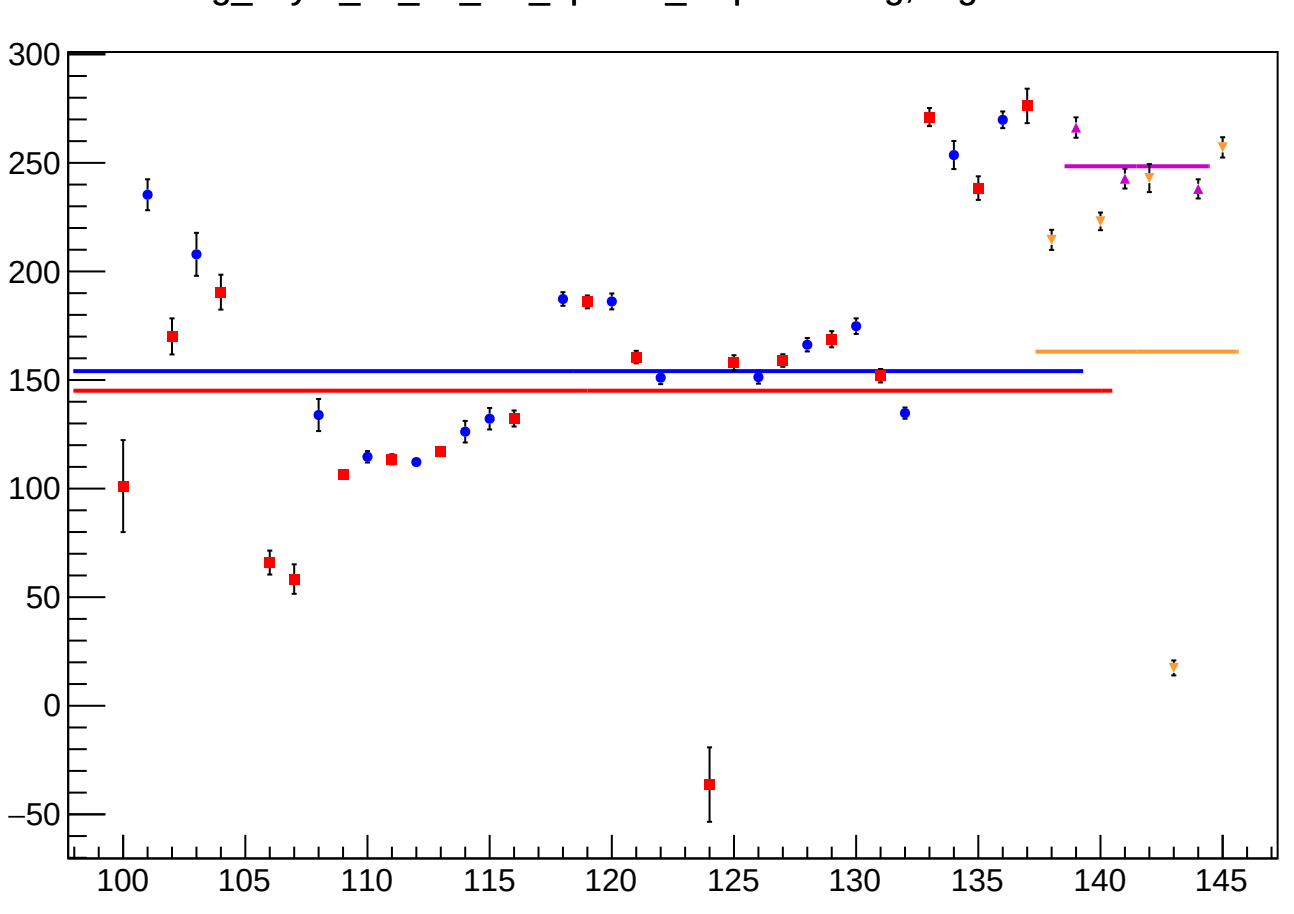
Left: -131.670+/-0.079 $\chi^2$/NDF: 1025340.3/7

Right: -61.201+/-0.045 $\chi^2$/NDF: 1926190.0/34

In: -85.450+/-0.058 $\chi^2$/NDF:1641034.4/18

Out: -72.318+/-0.052 $\chi^2$/NDF:1888097.7/23

All: -78.243+/-0.039 $\chi^2$/NDF: 3557550.0/42




Right In: 154.096+/-0.869 $\chi^2$/NDF: 2281.1/15

Left Out: 163.082+/-1.955 $\chi^2$/NDF:2688.2/4

Right Out: 145.083+/-0.826 $\chi^2$/NDF: 2958.4/18

Left In: 248.436+/-2.628 $\chi^2$/NDF:21.5/2

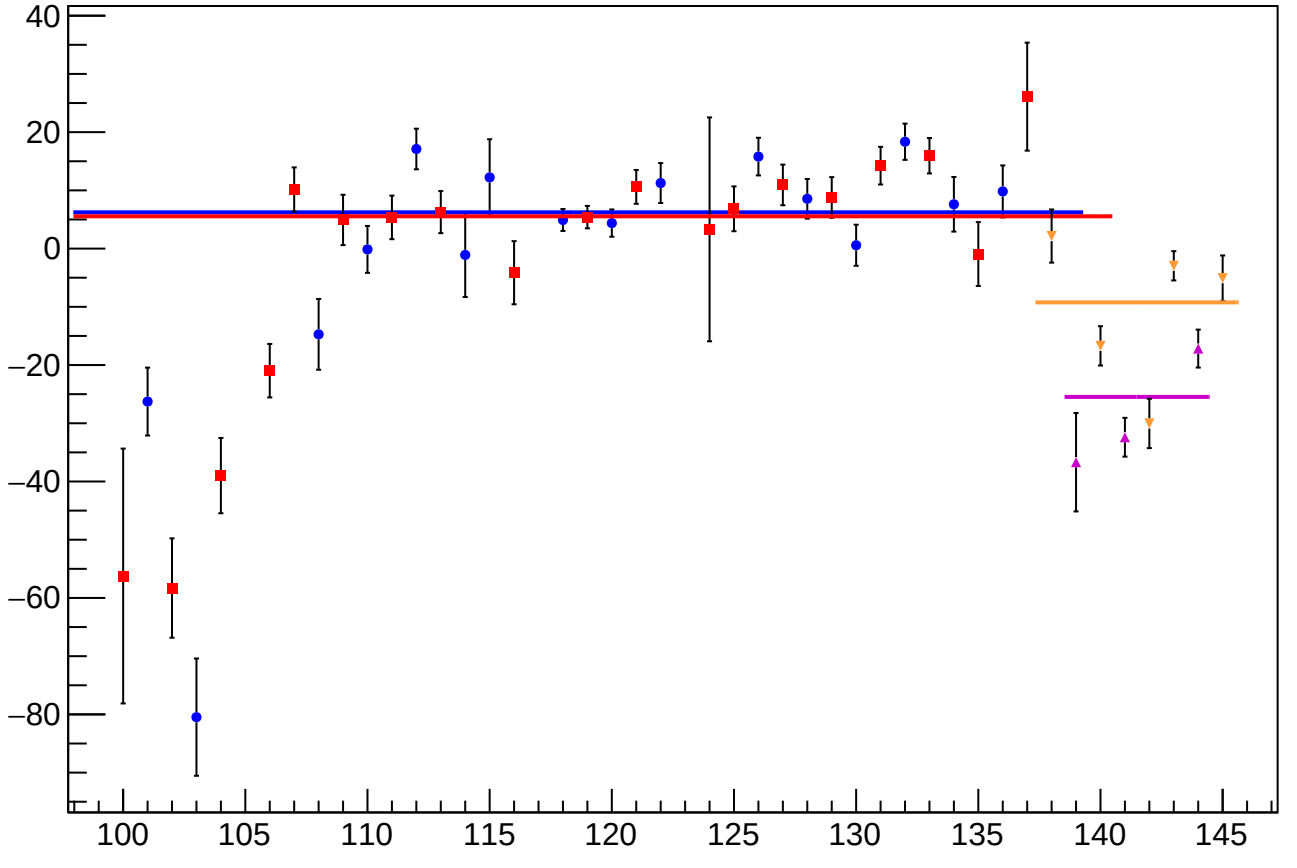
Left: 193.497+/-1.569 $\chi^2$/NDF: 3388.7/7

Right: 149.361+/-0.599 $\chi^2$/NDF: 5296.0/34

In: 163.397+/-0.825 $\chi^2$/NDF:3464.3/18

Out: 147.809+/-0.761 $\chi^2$/NDF:5718.4/23

All: 154.972+/-0.559 $\chi^2$/NDF: 9375.6/42




Right In: 6.229+/-0.890 $\chi^2$/NDF: 162.1/15

Left Out: -9.237+/-1.551 $\chi^2$/NDF:42.6/4

Right Out: 5.548+/-0.889 $\chi^2$/NDF: 181.1/18

Left In: -25.472+/-2.246 $\chi^2$/NDF:12.6/2

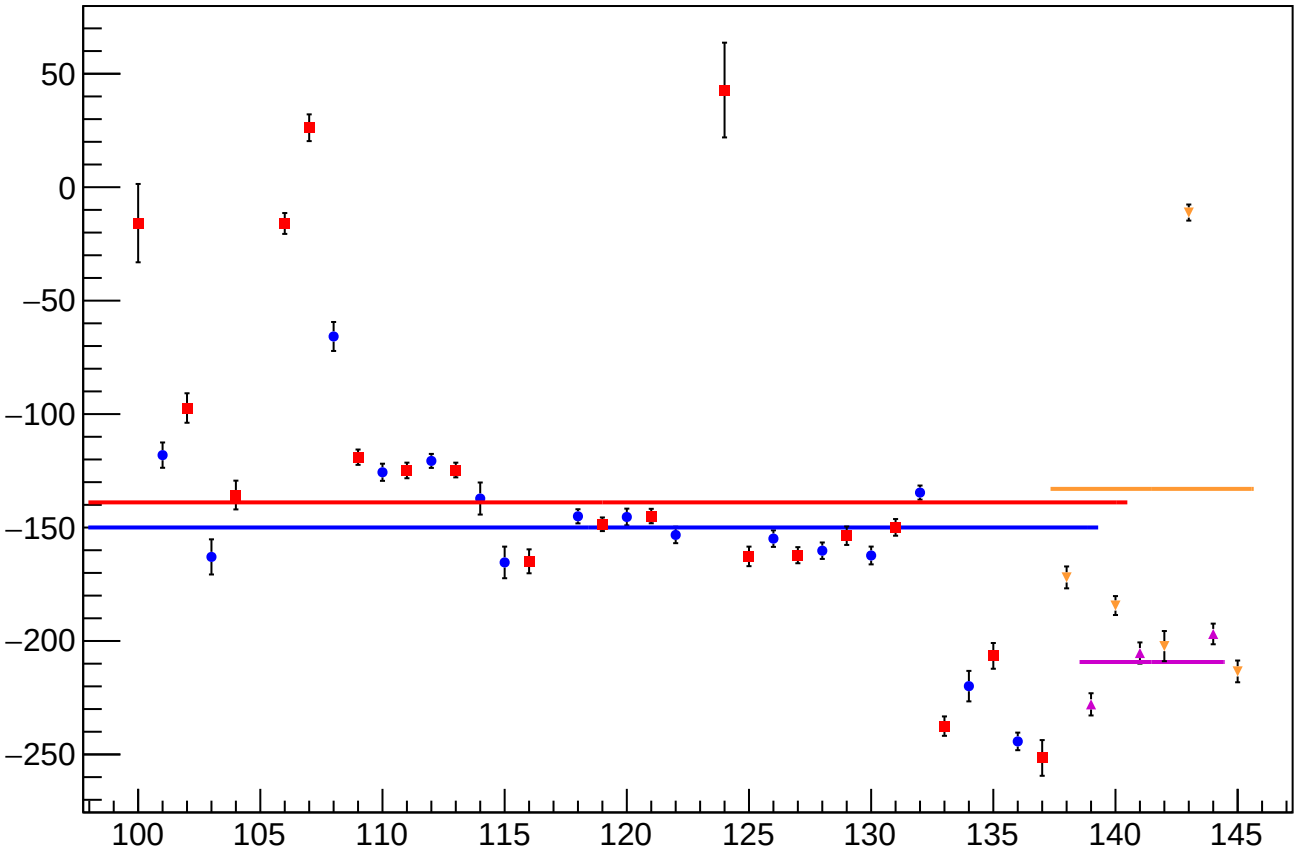
Left: -14.480+/-1.276 $\chi^2$/NDF: 90.6/7

Right: 5.888+/-0.629 $\chi^2$/NDF: 343.5/34

In: 1.926+/-0.827 $\chi^2$/NDF:346.8/18

Out: 1.889+/-0.772 $\chi^2$/NDF:292.1/23

All: 1.906+/-0.564 $\chi^2$/NDF: 639.0/42




Right In: -149.970+/-1.026 $\chi^2$/NDF: 1099.5/15

Left Out: -132.961+/-2.015 $\chi^2$/NDF:1788.8/4

Right Out: -138.912+/-0.993 $\chi^2$/NDF: 2750.9/18

Left In: -209.263+/-2.713 $\chi^2$/NDF:22.6/2

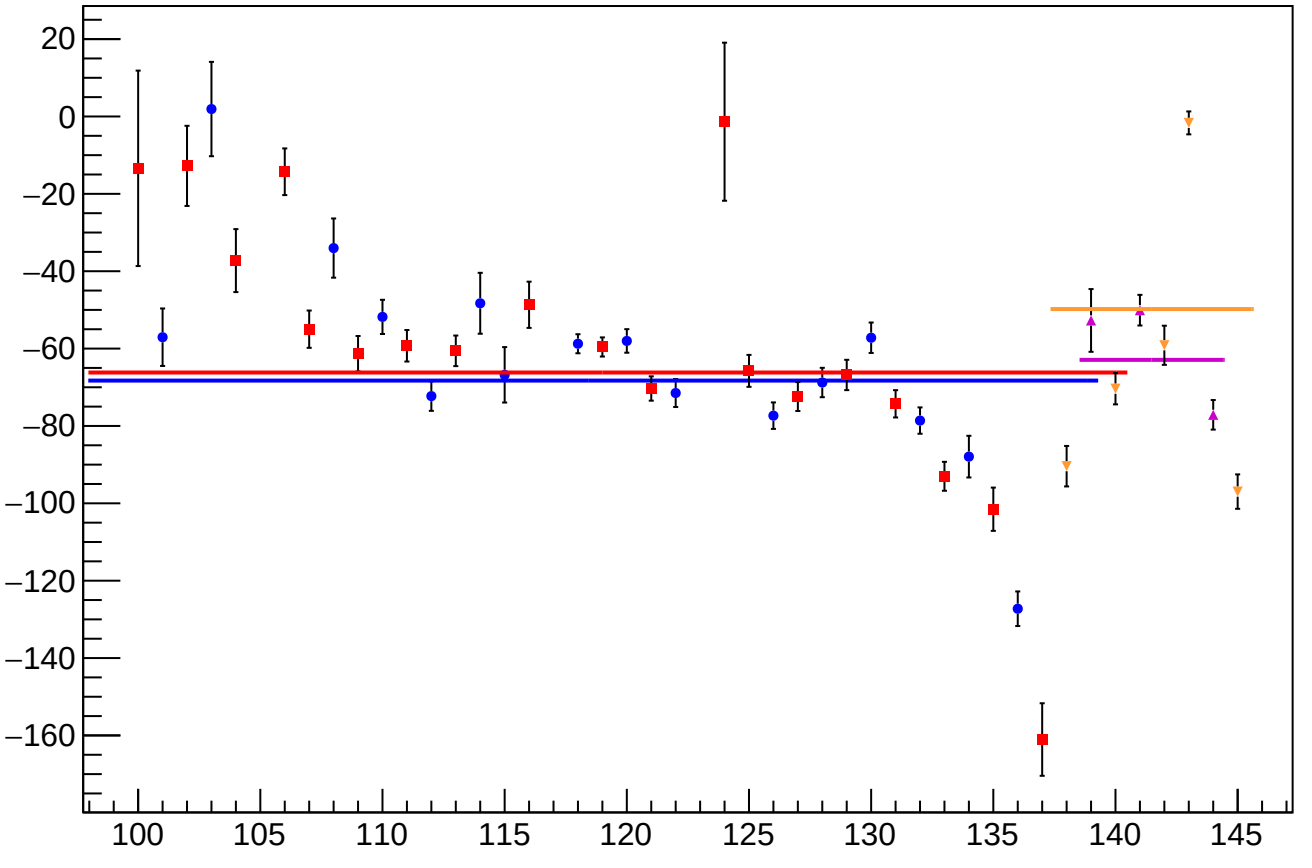
Left: -160.094+/-1.618 $\chi^2$/NDF: 2321.1/7

Right: -144.265+/-0.714 $\chi^2$/NDF: 3910.3/34

In: -157.384+/-0.959 $\chi^2$/NDF:1540.0/18

Out: -137.749+/-0.891 $\chi^2$/NDF:4546.7/23

All: -146.843+/-0.653 $\chi^2$/NDF: 6311.5/42




Right In: -68.272+/-1.033 $\chi^2$/NDF: 315.4/15

Left Out: -49.781+/-1.823 $\chi^2$/NDF:465.9/4

Right Out: -66.186+/-1.024 $\chi^2$/NDF: 358.3/18

Left In: -62.915+/-2.605 $\chi^2$/NDF:25.9/2

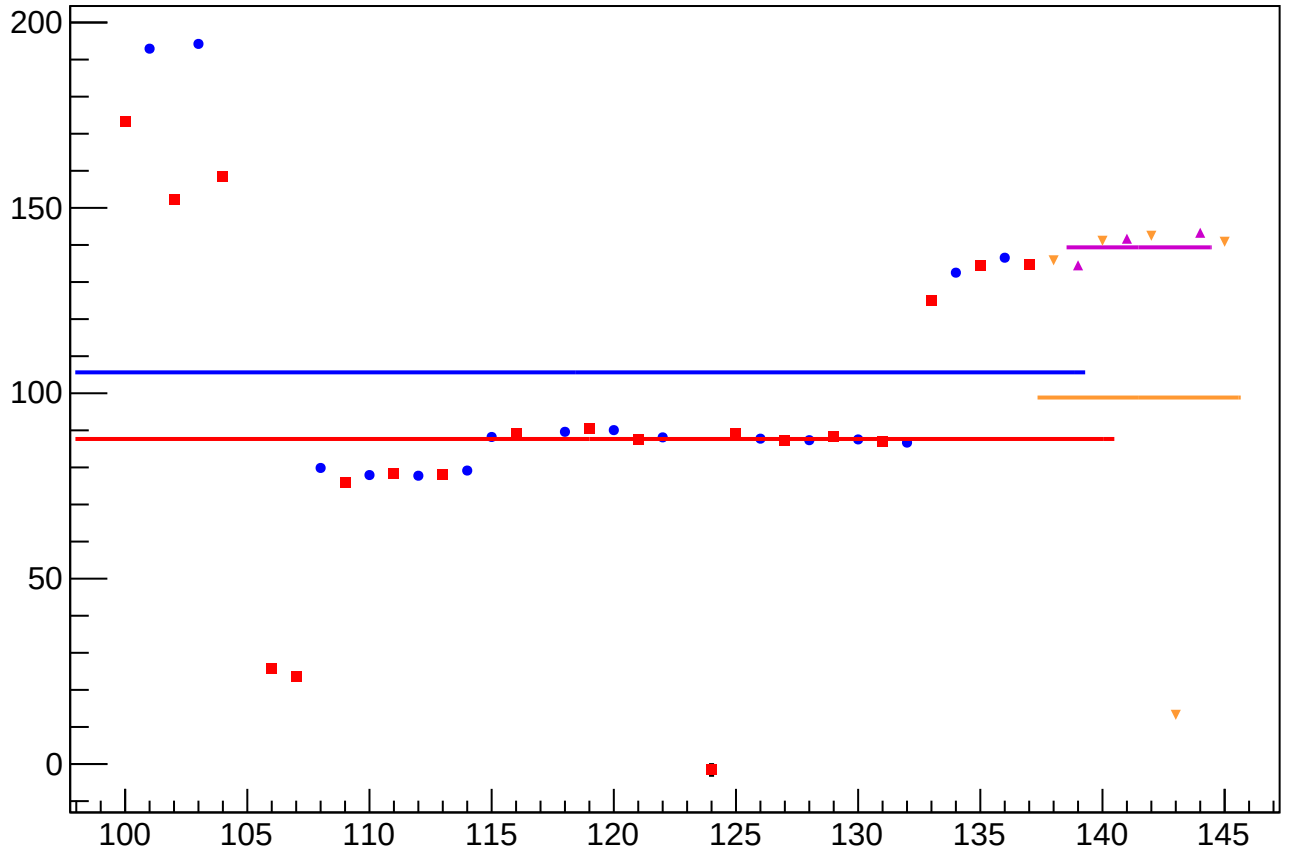
Left: -54.098+/-1.494 $\chi^2$/NDF: 508.9/7

Right: -67.219+/-0.727 $\chi^2$/NDF: 675.8/34

In: -67.544+/-0.960 $\chi^2$/NDF:345.0/18

Out: -62.251+/-0.893 $\chi^2$/NDF:885.8/23

All: -64.704+/-0.654 $\chi^2$/NDF: 1247.1/42




Right In: 105.640+/-0.071 $\chi^2$/NDF: 239614.1/15

Left Out: 98.851+/-0.084 $\chi^2$/NDF:501156.0/4

Right Out: 87.673+/-0.066 $\chi^2$/NDF: 374460.7/18

Left In: 139.357+/-0.109 $\chi^2$/NDF:1293.1/2

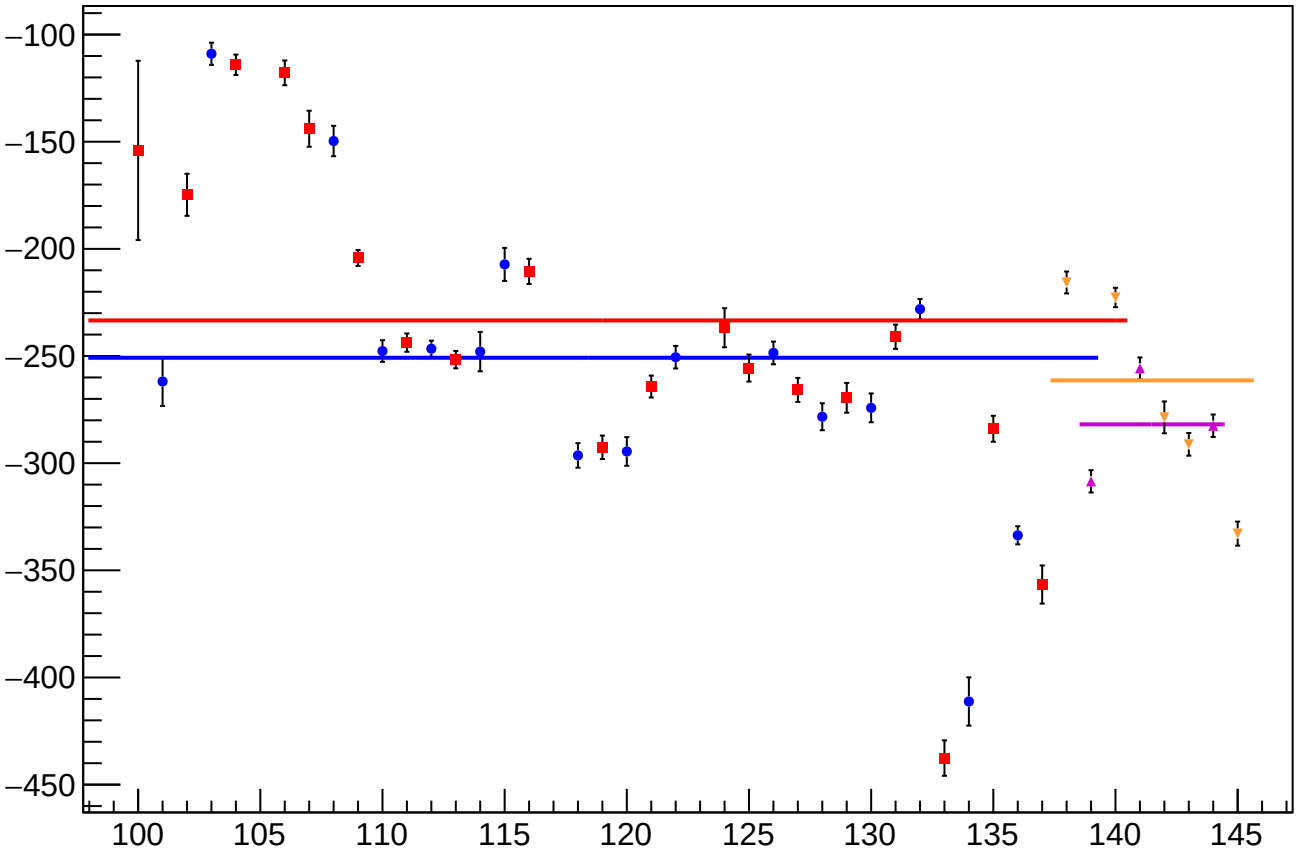
Left: 113.870+/-0.066 $\chi^2$/NDF: 589380.0/7

Right: 95.972+/-0.048 $\chi^2$/NDF: 648694.2/34

In: 115.654+/-0.059 $\chi^2$/NDF:308203.6/18

Out: 91.931+/-0.052 $\chi^2$/NDF:886668.0/23

All: 102.144+/-0.039 $\chi^2$/NDF: 1285736.8/42




Right In: -250.812+/-1.438 $\chi^2$/NDF: 1735.7/15

Left Out: -261.379+/-2.406 $\chi^2$/NDF:352.5/4

Right Out: -233.396+/-1.333 $\chi^2$/NDF: 2378.5/18

Left In: -281.886+/-2.992 $\chi^2$/NDF:52.4/2

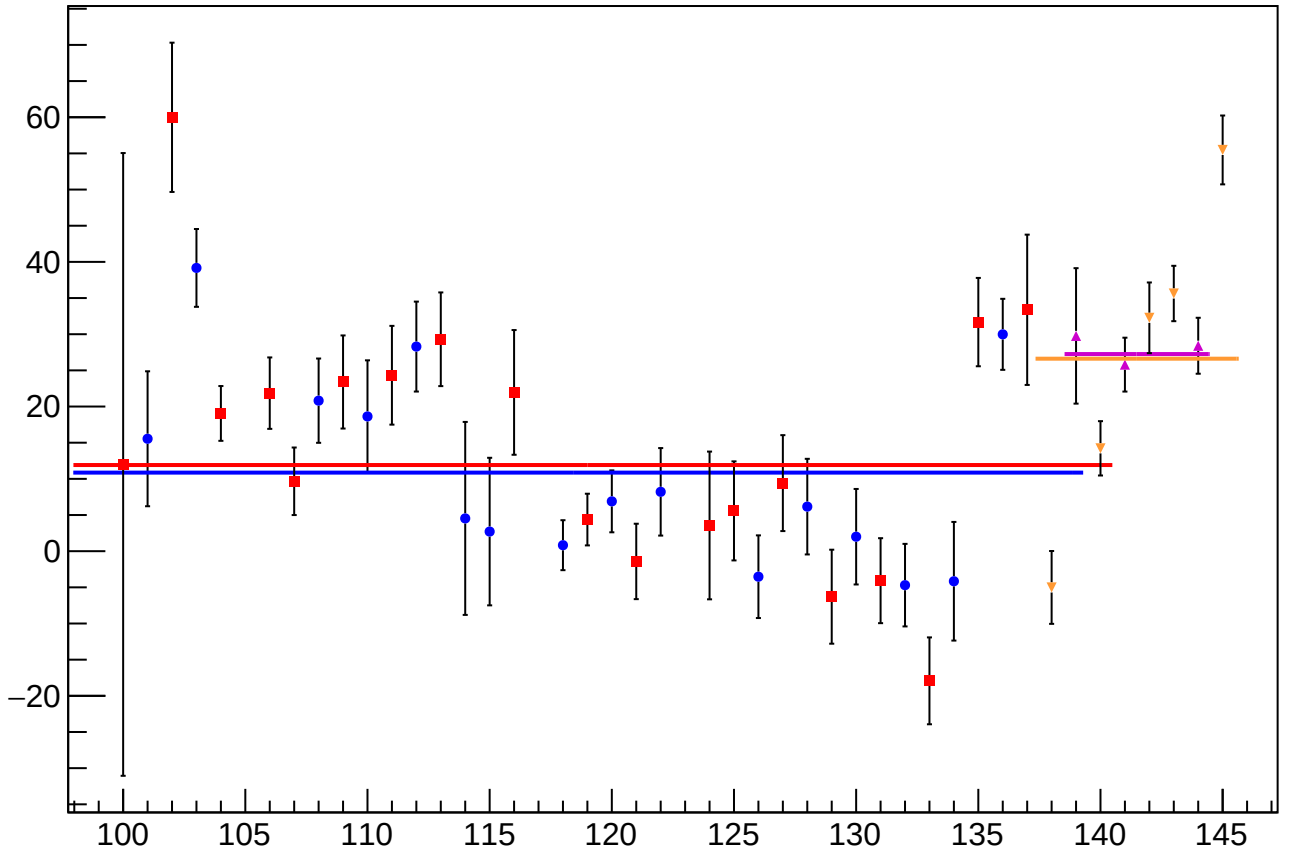
Left: -269.433+/-1.875 $\chi^2$/NDF: 433.4/7

Right: -241.445+/-0.978 $\chi^2$/NDF: 4193.1/34

In: -256.645+/-1.296 $\chi^2$/NDF:1875.7/18

Out: -239.969+/-1.166 $\chi^2$/NDF:2834.5/23

All: -247.429+/-0.867 $\chi^2$/NDF: 4801.6/42




Right In: 10.864+/-1.471 $\chi^2$/NDF: 84.7/15

Left Out: 26.615+/-1.944 $\chi^2$/NDF:94.0/4

Right Out: 11.912+/-1.368 $\chi^2$/NDF: 111.9/18

Left In: 27.256+/-2.579 $\chi^2$/NDF:0.3/2

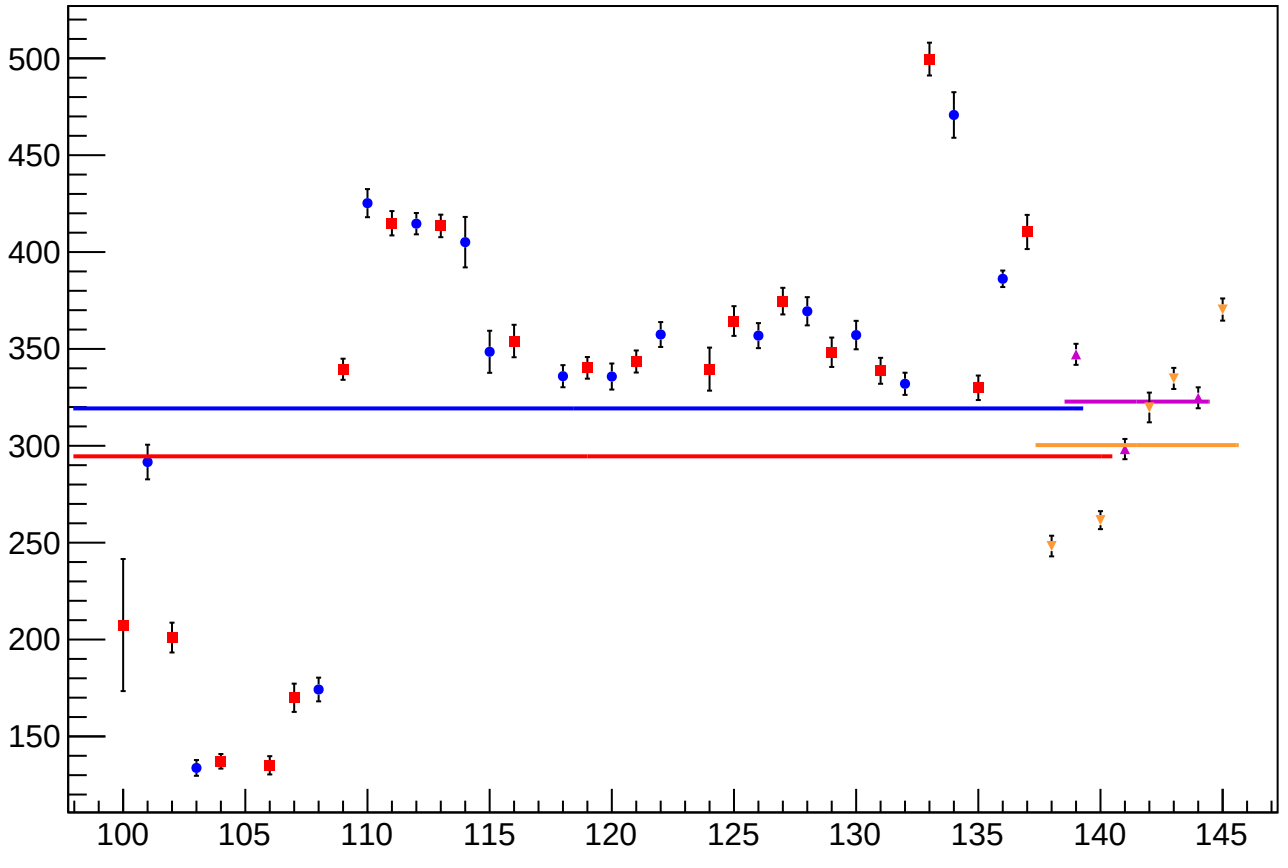
Left: 26.848+/-1.553 $\chi^2$/NDF: 94.3/7

Right: 11.426+/-1.001 $\chi^2$/NDF: 196.9/34

In: 14.886+/-1.278 $\chi^2$/NDF:115.5/18

Out: 16.779+/-1.119 $\chi^2$/NDF:244.2/23

All: 15.957+/-0.842 $\chi^2$/NDF: 360.9/42




Right In: 319.293+/-1.586 $\chi^2$/NDF: 3792.9/15

Left Out: 300.357+/-2.479 $\chi^2$/NDF:360.6/4

Right Out: 294.567+/-1.481 $\chi^2$/NDF: 5503.2/18

Left In: 322.810+/-3.089 $\chi^2$/NDF:42.3/2

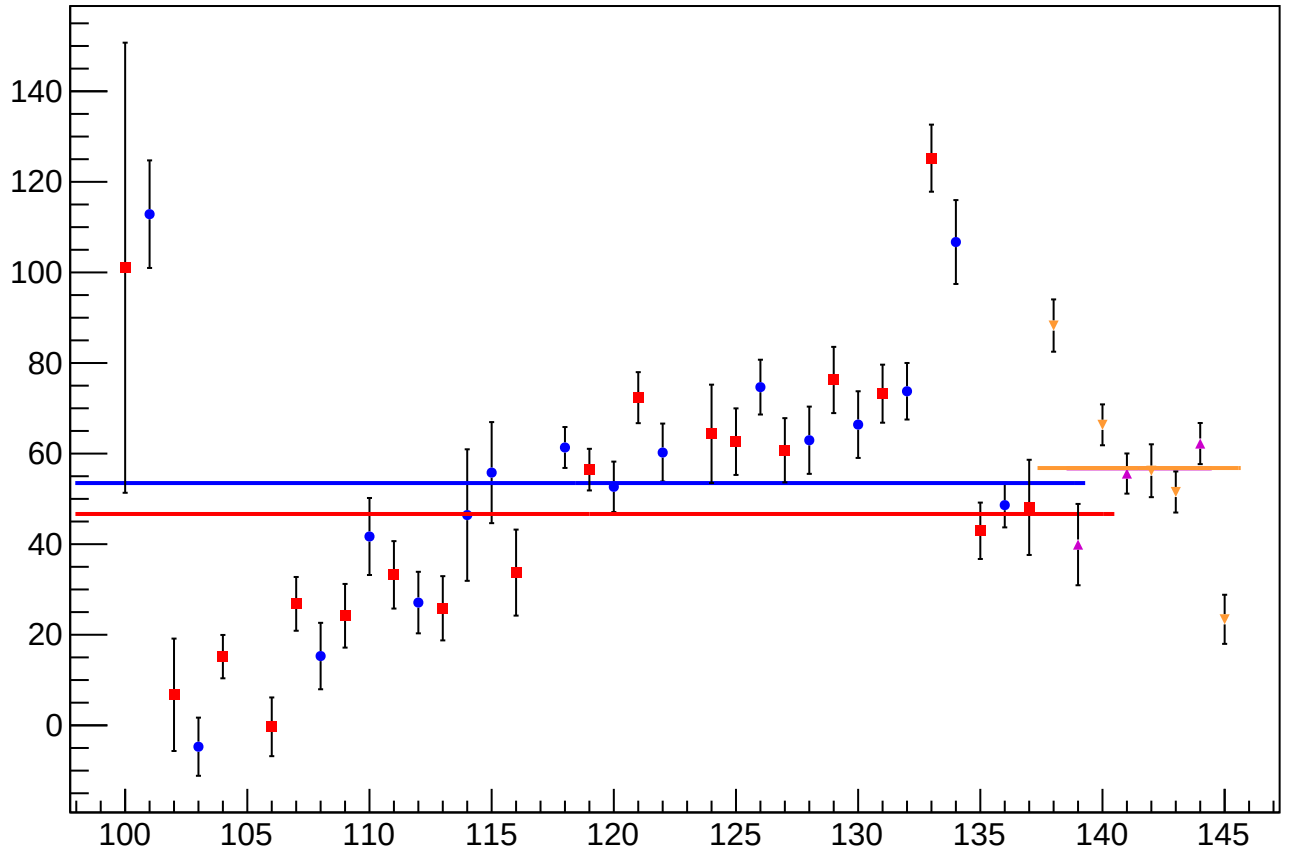
Left: 309.153+/-1.933 $\chi^2$/NDF: 435.1/7

Right: 306.088+/-1.083 $\chi^2$/NDF: 9425.9/34

In: 320.027+/-1.411 $\chi^2$/NDF:3836.3/18

Out: 296.091+/-1.272 $\chi^2$/NDF:5867.8/23

All: 306.819+/-0.945 $\chi^2$/NDF: 9862.9/42




Right In: 53.494+/-1.699 $\chi^2$/NDF: 217.2/15

Left Out: 56.810+/-2.288 $\chi^2$/NDF:73.5/4

Right Out: 46.666+/-1.593 $\chi^2$/NDF: 325.6/18

Left In: 56.728+/-2.990 $\chi^2$/NDF:5.0/2

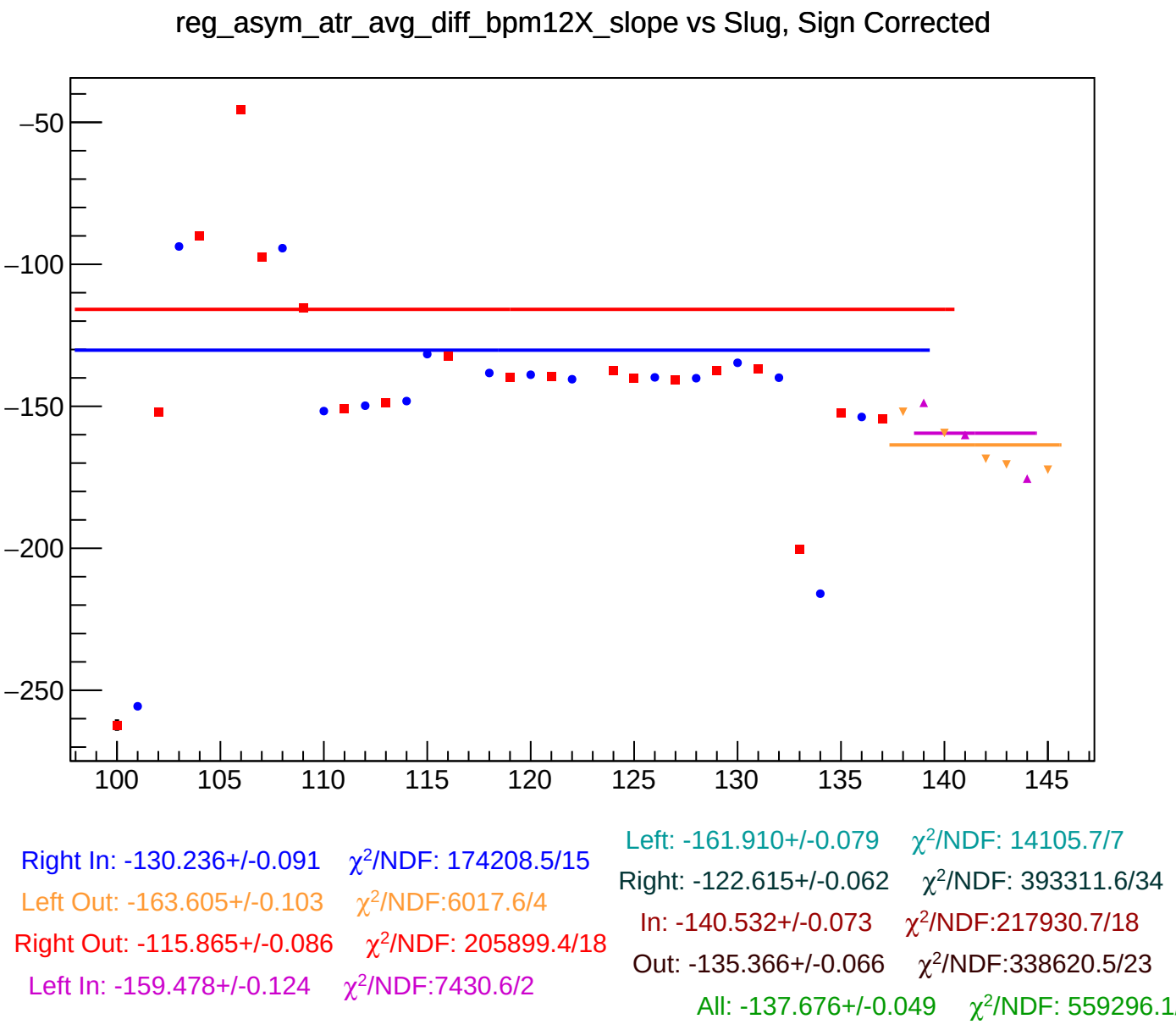
Left: 56.780+/-1.817 $\chi^2$/NDF: 78.5/7

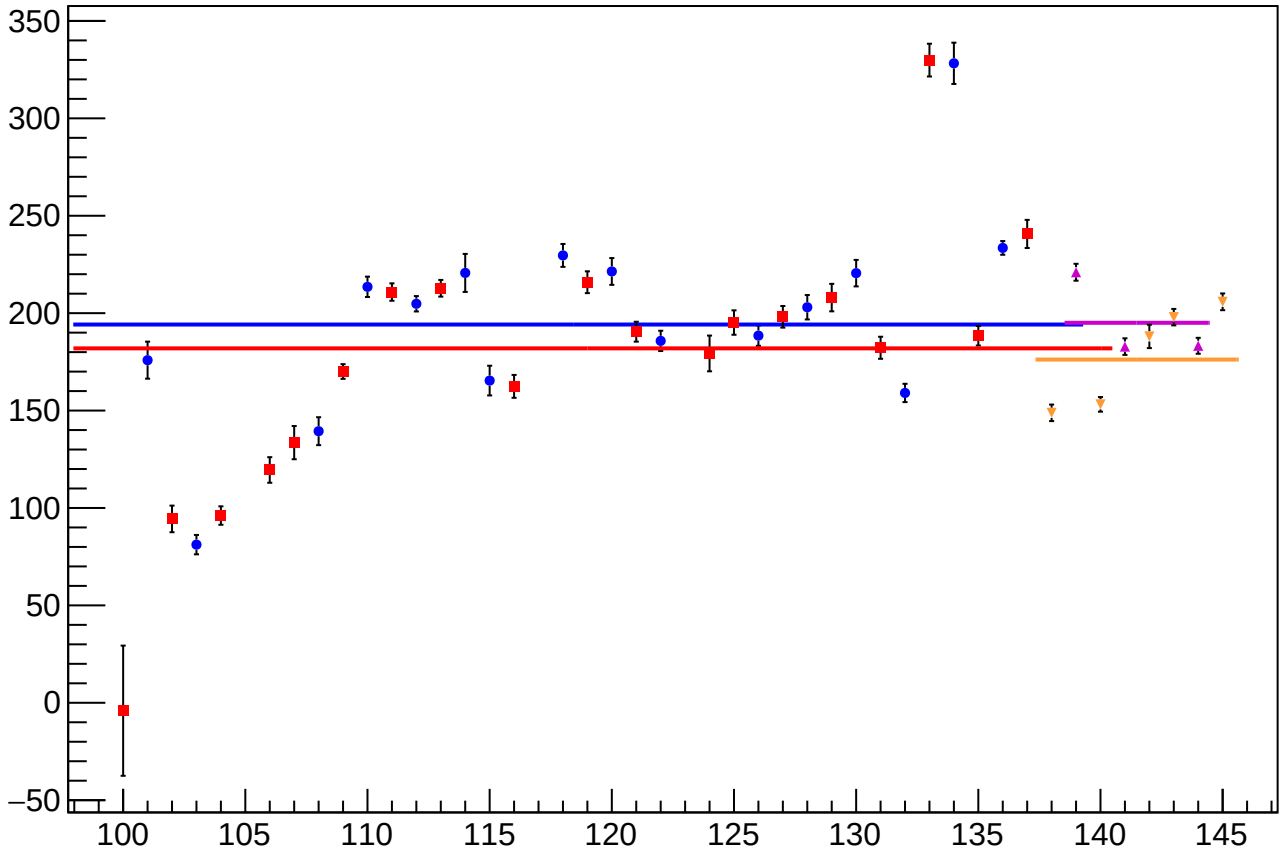
Right: 49.861+/-1.162 $\chi^2$/NDF: 551.4/34

In: 54.283+/-1.477 $\chi^2$/NDF:223.2/18

Out: 49.979+/-1.308 $\chi^2$/NDF:412.3/23

All: 51.870+/-0.979 $\chi^2$/NDF: 640.3/42


reg_asym_atr_avg_diff_bpm12X_slope vs Slug, Sign Corrected
−50
−100
−150
−200
−250
100
105
110
115
120
125
130
135
140
145
Right In: -130.236+/-0.091 χ²/NDF: 174208.5/15
Left Out: -163.605+/-0.103 χ²/NDF:6017.6/4
Right Out: -115.865+/-0.086 χ²/NDF: 205899.4/18
Left In: -159.478+/-0.124 χ²/NDF:7430.6/2
Left: -161.910+/-0.079 χ²/NDF: 14105.7/7
Right: -122.615+/-0.062 χ²/NDF: 393311.6/34
In: -140.532+/-0.073 χ²/NDF:217930.7/18
Out: -135.366+/-0.066 χ²/NDF:338620.5/23
All: -137.676+/-0.049 χ²/NDF: 559296.1/42




Right In: 194.164+/-1.407 $\chi^2$/NDF: 1035.2/15

Left Out: 176.181+/-1.943 $\chi^2$/NDF:157.3/4

Right Out: 181.928+/-1.322 $\chi^2$/NDF: 1204.8/18

Left In: 195.056+/-2.438 $\chi^2$/NDF:52.4/2

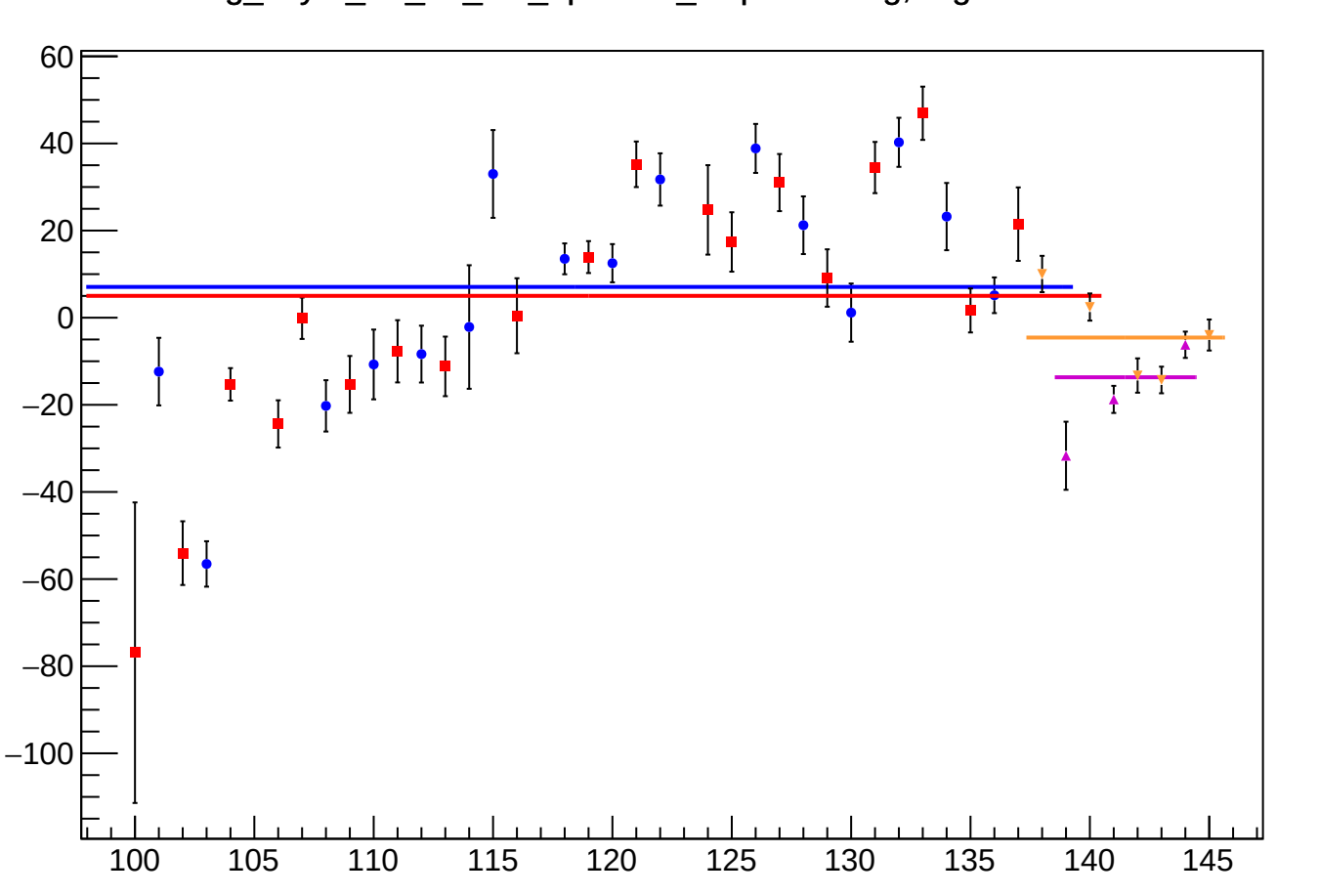
Left: 183.514+/-1.519 $\chi^2$/NDF: 246.4/7

Right: 187.666+/-0.963 $\chi^2$/NDF: 2280.2/34

In: 194.387+/-1.218 $\chi^2$/NDF:1087.7/18

Out: 180.109+/-1.093 $\chi^2$/NDF:1368.2/23

All: 186.476+/-0.814 $\chi^2$/NDF: 2531.9/42




Right In: 7.066+/-1.443 $\chi^2$/NDF: 292.6/15

Left Out: -4.557+/-1.560 $\chi^2$/NDF:32.4/4

Right Out: 5.015+/-1.355 $\chi^2$/NDF: 288.5/18

Left In: -13.674+/-2.088 $\chi^2$/NDF:14.1/2

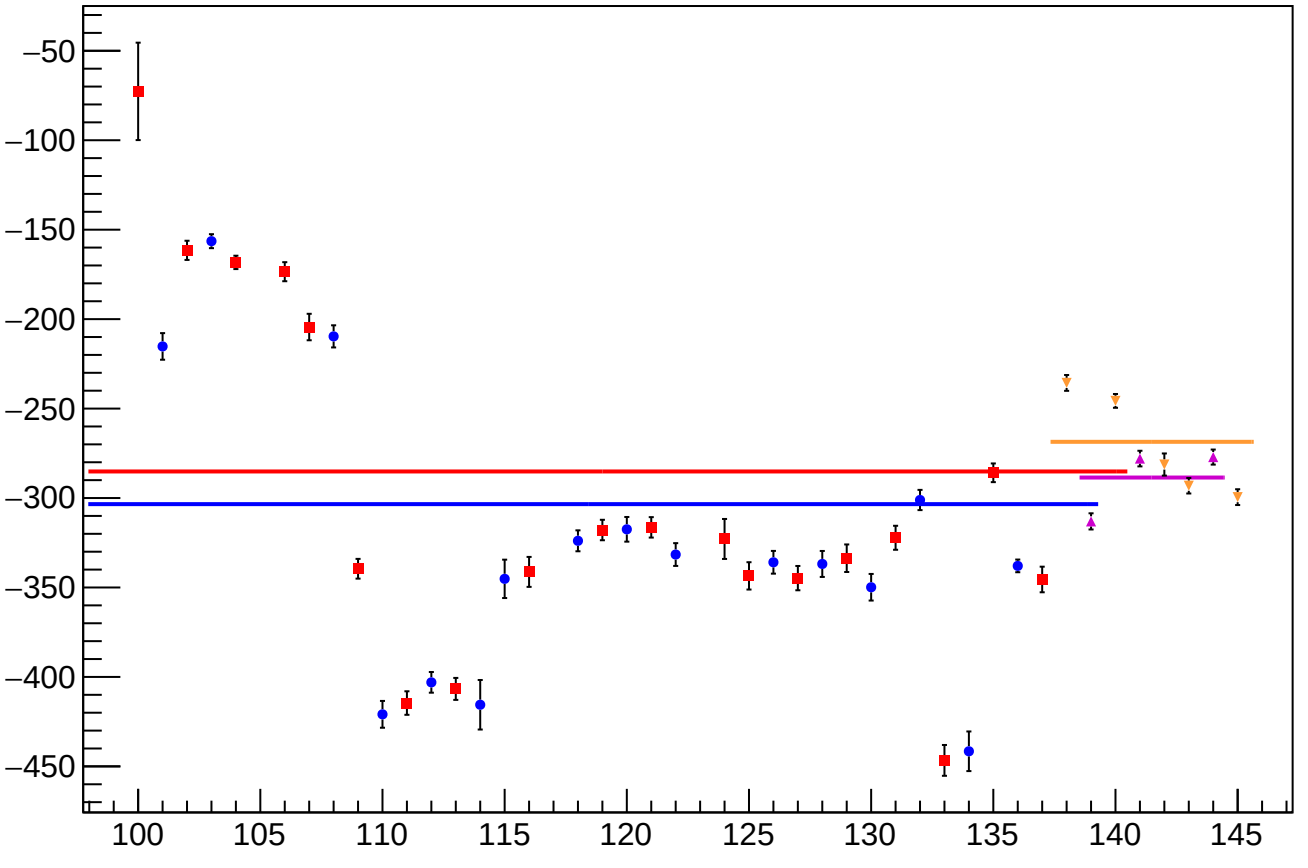
Left: -7.823+/-1.250 $\chi^2$/NDF: 58.7/7

Right: 5.976+/-0.988 $\chi^2$/NDF: 582.2/34

In: 0.363+/-1.187 $\chi^2$/NDF:373.4/18

Out: 0.900+/-1.023 $\chi^2$/NDF:342.4/23

All: 0.671+/-0.775 $\chi^2$/NDF: 715.9/42




Right In: -303.408+/-1.530 $\chi^2$/NDF: 2785.5/15

Left Out: -268.577+/-2.004 $\chi^2$/NDF:175.9/4

Right Out: -285.148+/-1.451 $\chi^2$/NDF: 3754.8/18

Left In: -288.544+/-2.517 $\chi^2$/NDF:42.7/2

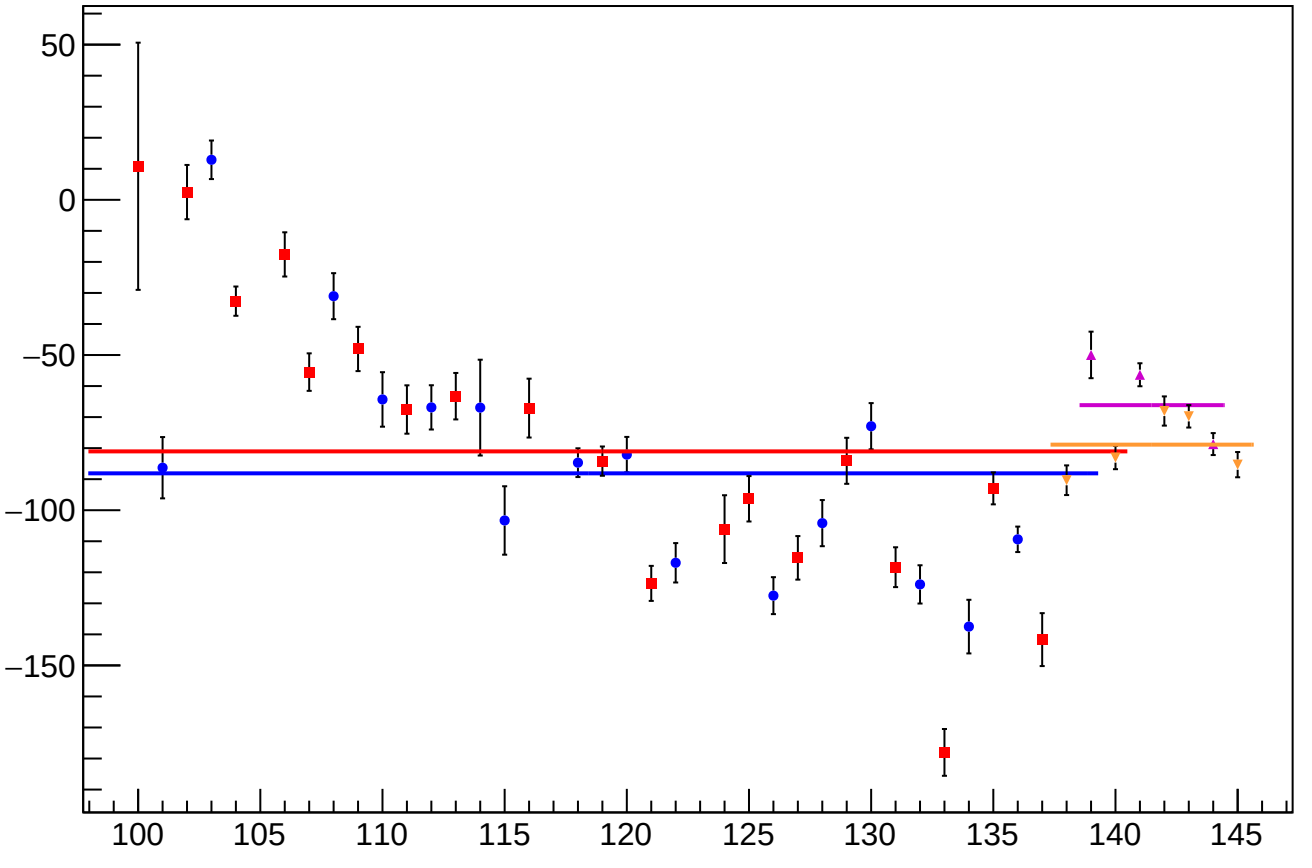
Left: -276.325+/-1.568 $\chi^2$/NDF: 257.1/7

Right: -293.794+/-1.053 $\chi^2$/NDF: 6615.3/34

In: -299.397+/-1.307 $\chi^2$/NDF:2853.7/18

Out: -279.449+/-1.175 $\chi^2$/NDF:3975.6/23

All: -288.364+/-0.874 $\chi^2$/NDF: 6958.0/42




Right In: -88.119+/-1.655 $\chi^2$/NDF: 511.9/15

Left Out: -78.874+/-1.835 $\chi^2$/NDF:21.2/4

Right Out: -81.046+/-1.569 $\chi^2$/NDF: 677.5/18

Left In: -66.150+/-2.421 $\chi^2$/NDF:24.2/2

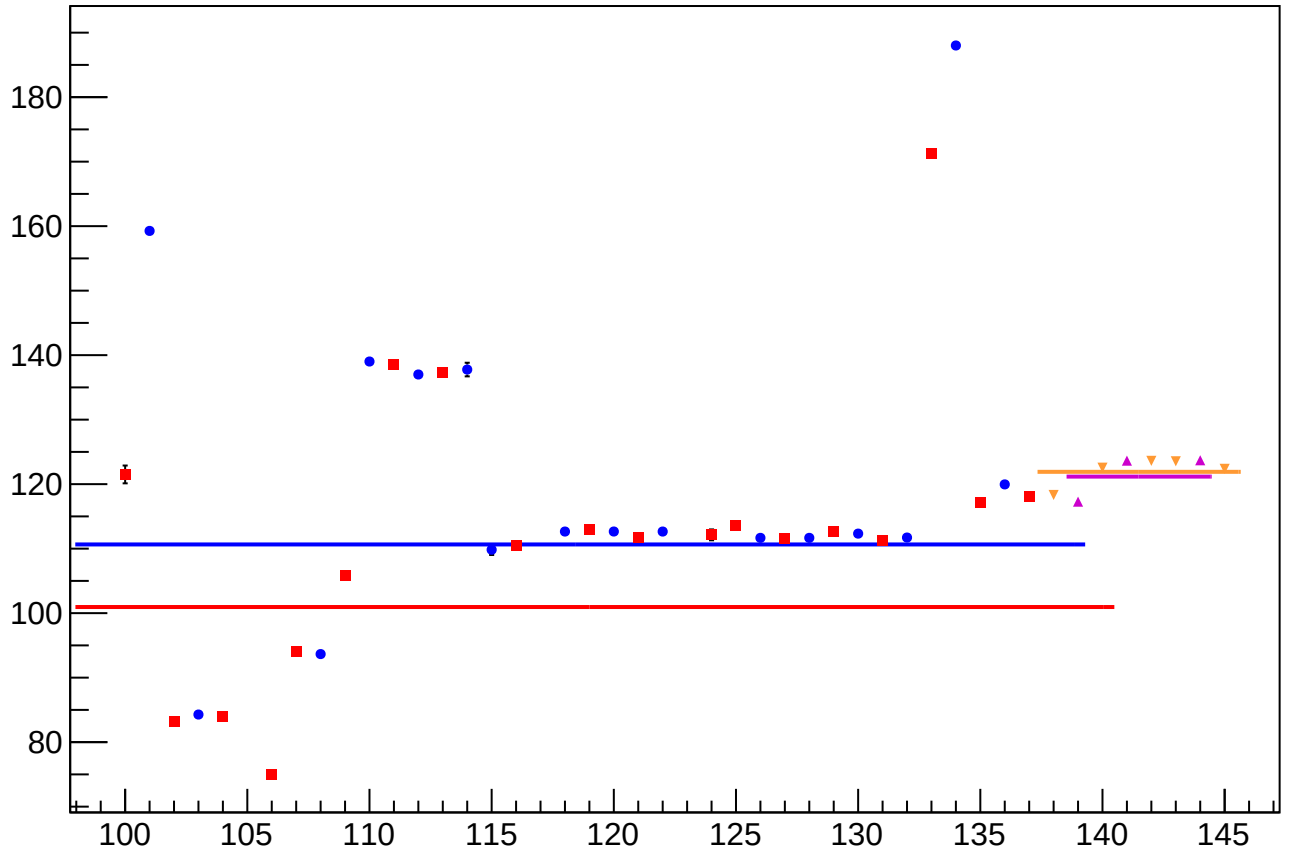
Left: -74.232+/-1.462 $\chi^2$/NDF: 62.9/7

Right: -84.394+/-1.139 $\chi^2$/NDF: 1199.1/34

In: -81.122+/-1.366 $\chi^2$/NDF:592.3/18

Out: -80.129+/-1.192 $\chi^2$/NDF:699.5/23

All: -80.558+/-0.898 $\chi^2$/NDF: 1292.1/42




Right In: 110.651+/-0.086 $\chi^2$/NDF: 83521.8/15

Left Out: 121.910+/-0.083 $\chi^2$/NDF:554.4/4

Right Out: 100.949+/-0.081 $\chi^2$/NDF: 62002.4/18

Left In: 121.169+/-0.101 $\chi^2$/NDF:950.9/2

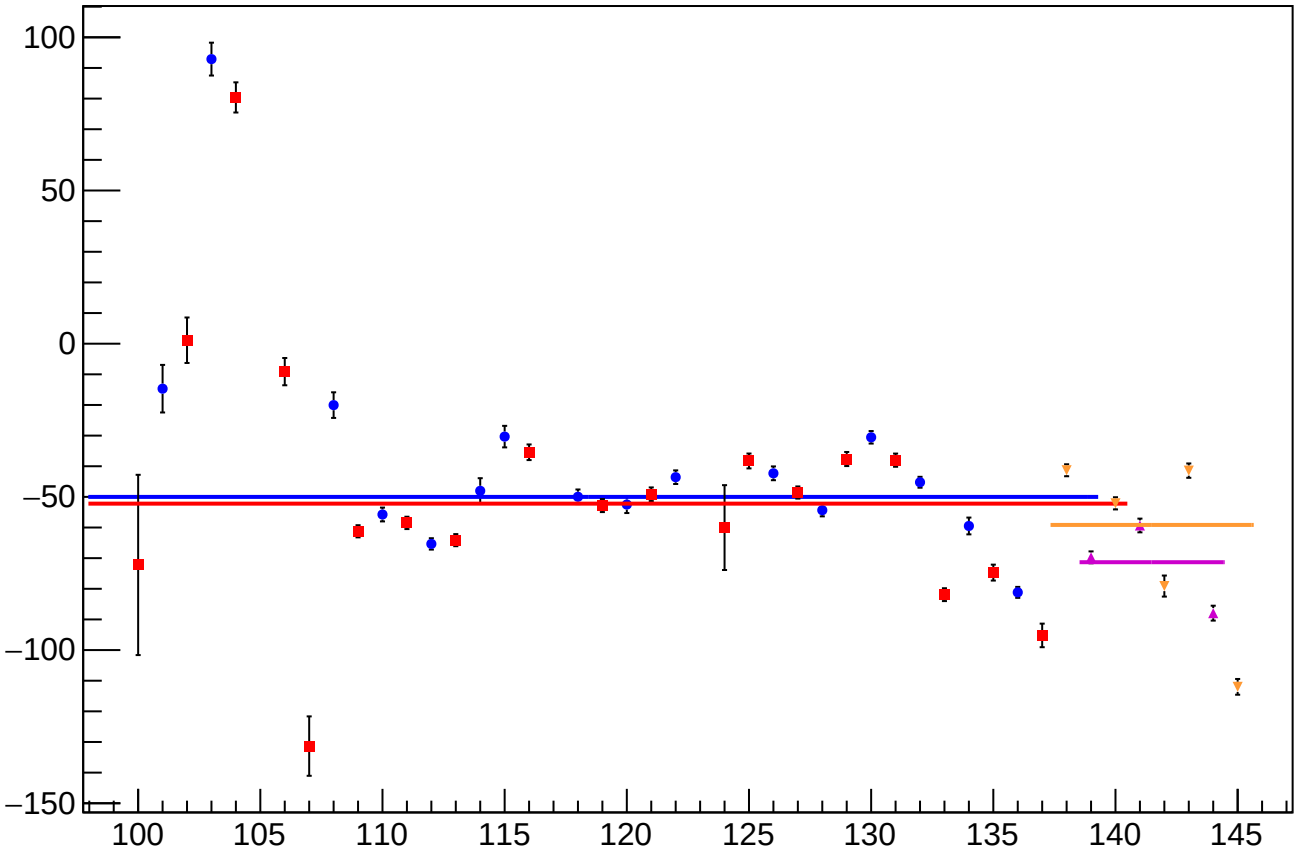
Left: 121.611+/-0.064 $\chi^2$/NDF: 1537.2/7

Right: 105.518+/-0.059 $\chi^2$/NDF: 152285.6/34

In: 115.057+/-0.065 $\chi^2$/NDF:90764.5/18

Out: 111.139+/-0.058 $\chi^2$/NDF:95133.1/23

All: 112.864+/-0.043 $\chi^2$/NDF: 187904.4/42




Right In: -50.008+/-0.610 $\chi^2$/NDF: 1327.4/15

Left Out: -59.155+/-1.036 $\chi^2$/NDF:608.8/4

Right Out: -52.207+/-0.605 $\chi^2$/NDF: 1570.3/18

Left In: -71.322+/-1.256 $\chi^2$/NDF:76.0/2

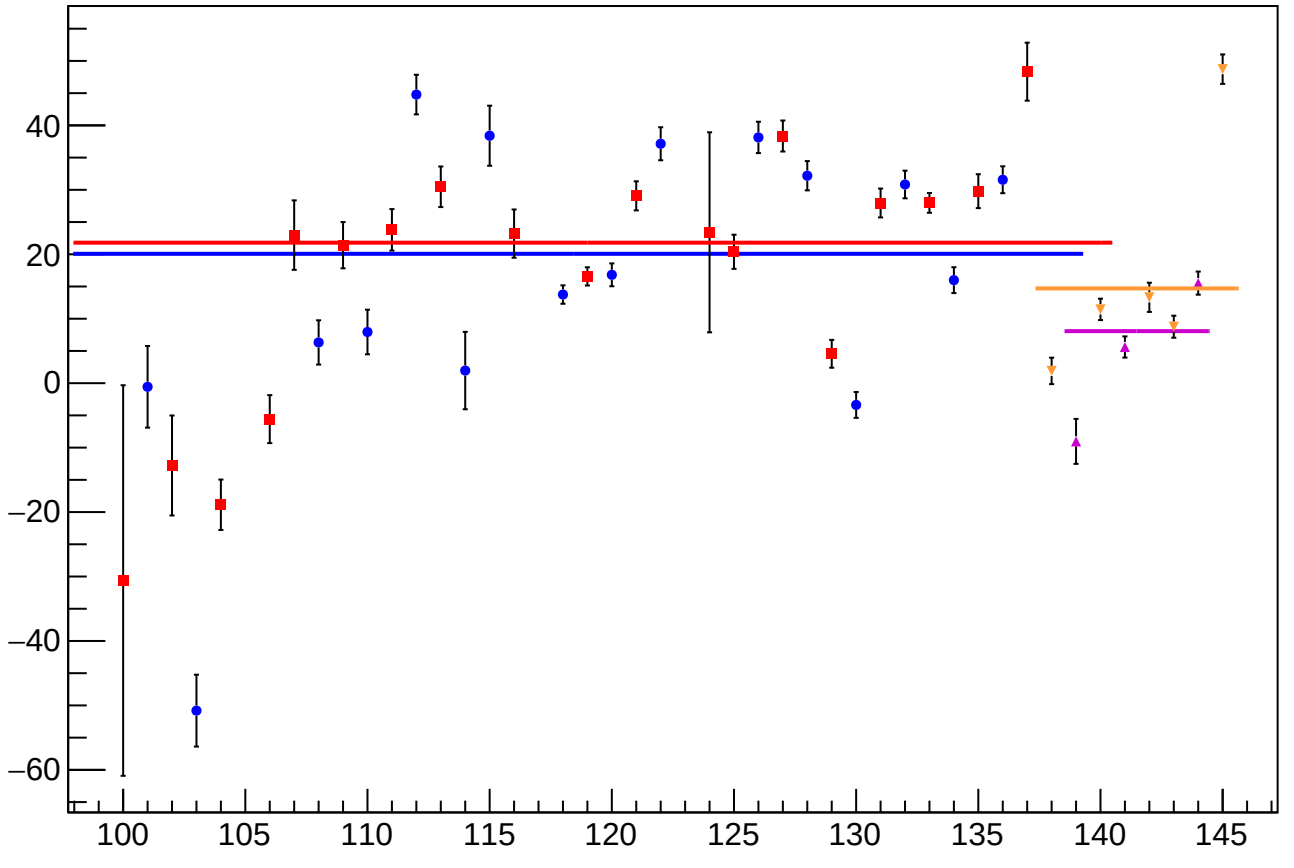
Left: -64.080+/-0.799 $\chi^2$/NDF: 740.7/7

Right: -51.116+/-0.430 $\chi^2$/NDF: 2904.2/34

In: -54.075+/-0.549 $\chi^2$/NDF:1636.4/18

Out: -53.975+/-0.522 $\chi^2$/NDF:2212.6/23

All: -54.022+/-0.378 $\chi^2$/NDF: 3849.0/42




Right In: 20.072+/-0.612 $\chi^2$/NDF: 636.2/15

Left Out: 14.700+/-0.868 $\chi^2$/NDF:276.7/4

Right Out: 21.800+/-0.622 $\chi^2$/NDF: 396.3/18

Left In: 8.073+/-1.145 $\chi^2$/NDF:43.5/2

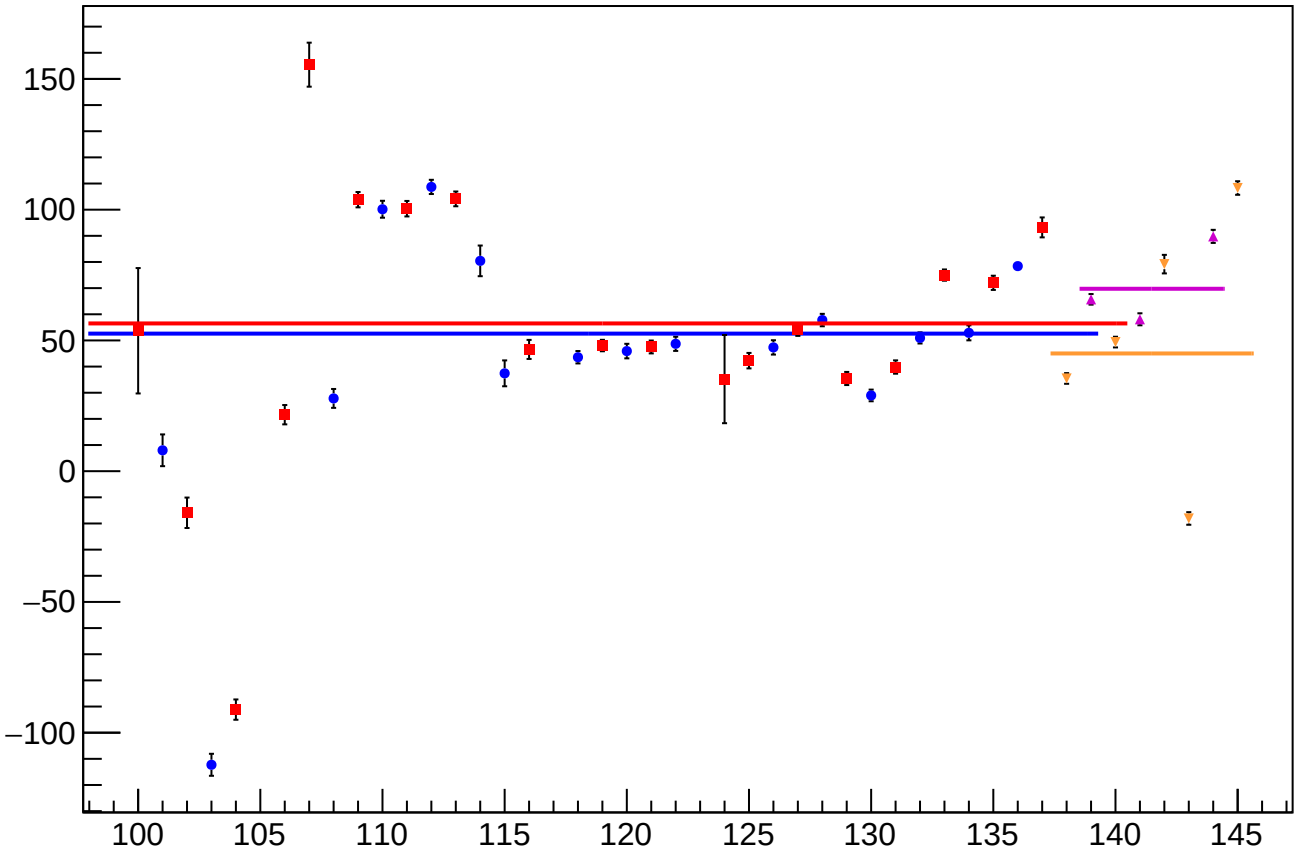
Left: 12.283+/-0.692 $\chi^2$/NDF: 341.5/7

Right: 20.922+/-0.436 $\chi^2$/NDF: 1036.5/34

In: 17.407+/-0.540 $\chi^2$/NDF:765.2/18

Out: 19.390+/-0.506 $\chi^2$/NDF:717.3/23

All: 18.463+/-0.369 $\chi^2$/NDF: 1489.6/42




Right In: 52.605+/-0.696 $\chi^2$/NDF: 2659.4/15

Left Out: 45.017+/-1.067 $\chi^2$/NDF:1398.3/4

Right Out: 56.499+/-0.705 $\chi^2$/NDF: 2965.5/18

Left In: 69.753+/-1.299 $\chi^2$/NDF:93.8/2

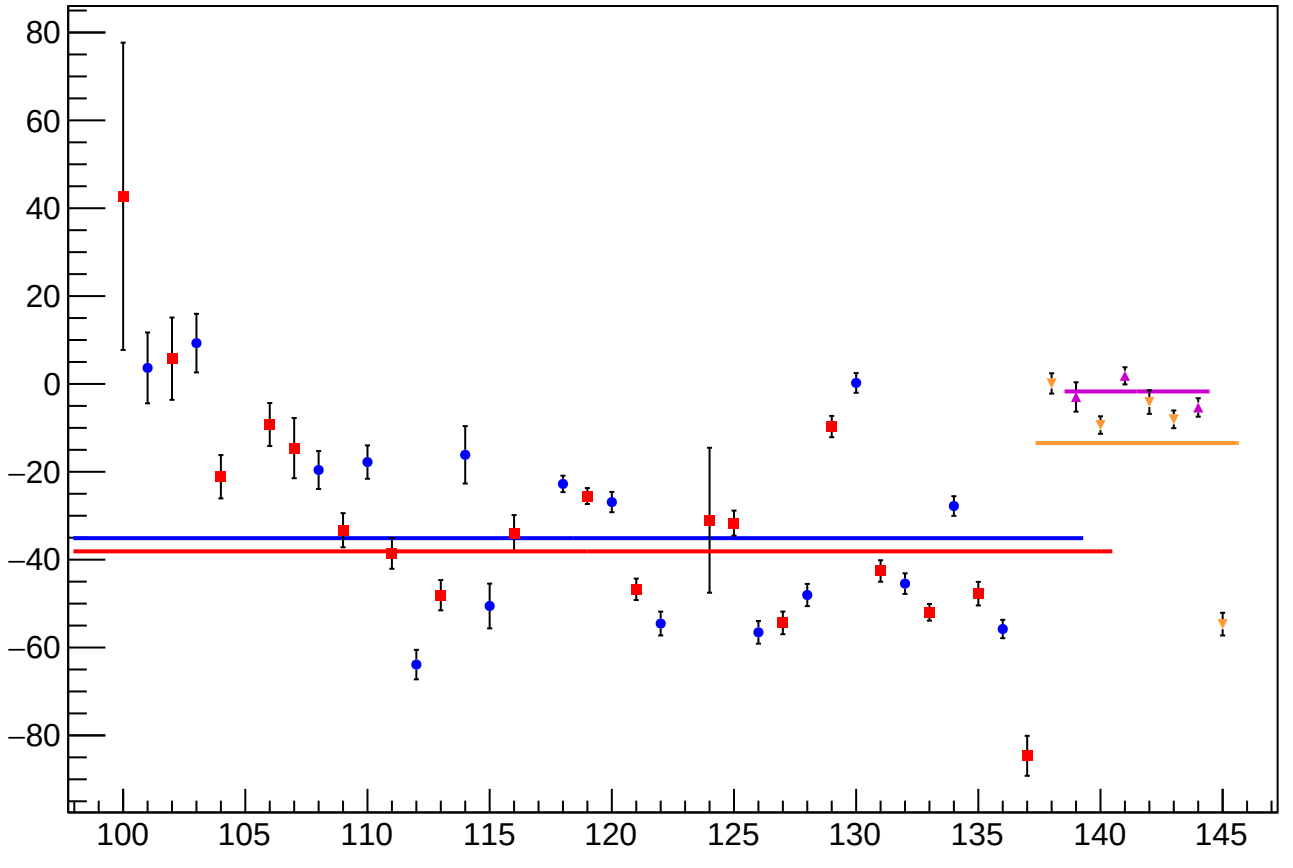
Left: 54.983+/-0.824 $\chi^2$/NDF: 1708.8/7

Right: 54.527+/-0.496 $\chi^2$/NDF: 5640.4/34

In: 56.435+/-0.614 $\chi^2$/NDF:2888.7/18

Out: 53.005+/-0.588 $\chi^2$/NDF:4444.5/23

All: 54.648+/-0.425 $\chi^2$/NDF: 7349.4/42




Right In: -35.104+/-0.700 $\chi^2$/NDF: 773.2/15

Left Out: -13.450+/-1.014 $\chi^2$/NDF:312.5/4

Right Out: -38.109+/-0.714 $\chi^2$/NDF: 514.6/18

Left In: -1.711+/-1.315 $\chi^2$/NDF:6.5/2

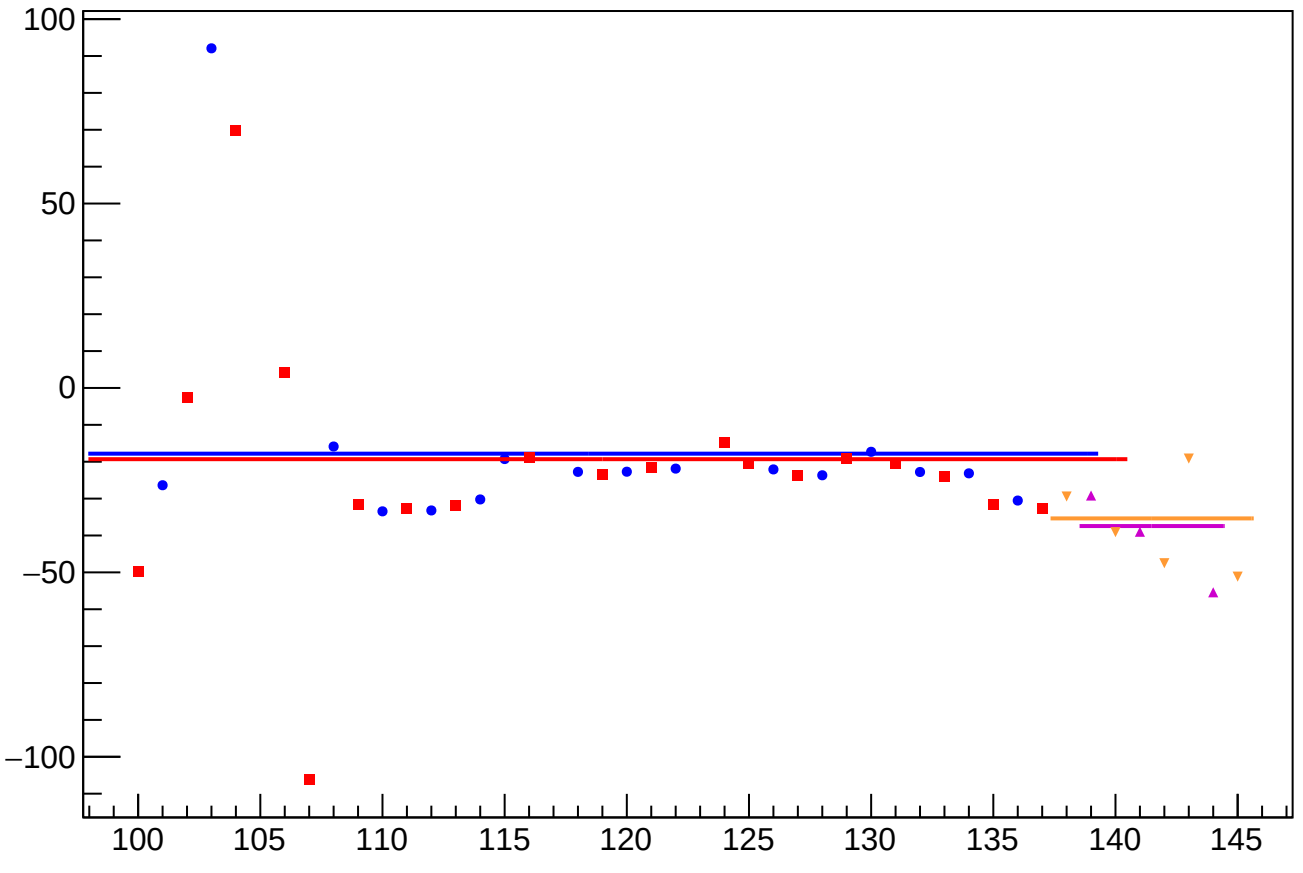
Left: -9.074+/-0.803 $\chi^2$/NDF: 368.9/7

Right: -36.577+/-0.500 $\chi^2$/NDF: 1296.8/34

In: -27.732+/-0.618 $\chi^2$/NDF:1281.9/18

Out: -29.938+/-0.584 $\chi^2$/NDF:1222.5/23

All: -28.898+/-0.424 $\chi^2$/NDF: 2511.1/42




Right In: -17.817+/-0.043 $\chi^2$/NDF: 426105.1/15

Left Out: -35.369+/-0.044 $\chi^2$/NDF:64256.2/4

Right Out: -19.311+/-0.046 $\chi^2$/NDF: 344626.7/18

Left In: -37.442+/-0.051 $\chi^2$/NDF:39048.3/2

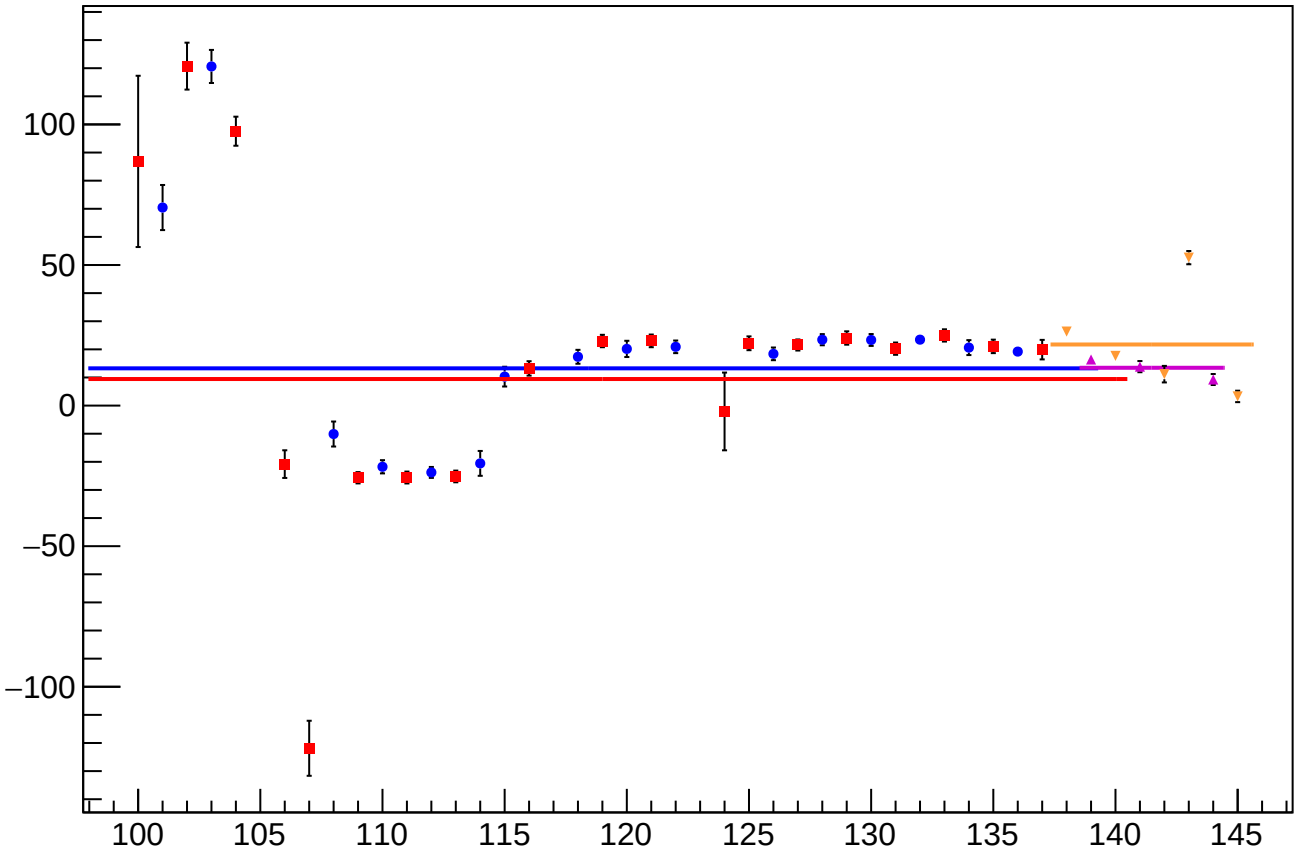
Left: -36.253+/-0.033 $\chi^2$/NDF: 104255.5/7

Right: -18.516+/-0.032 $\chi^2$/NDF: 771290.6/34

In: -26.041+/-0.033 $\chi^2$/NDF:551506.1/18

Out: -27.727+/-0.032 $\chi^2$/NDF:472512.2/23

All: -26.914+/-0.023 $\chi^2$/NDF: 1025375.2/42




Right In: 13.250+/-0.615 $\chi^2$/NDF: 1182.5/15

Left Out: 21.734+/-0.922 $\chi^2$/NDF:278.4/4

Right Out: 9.450+/-0.615 $\chi^2$/NDF: 1836.6/18

Left In: 13.449+/-1.084 $\chi^2$/NDF:7.5/2

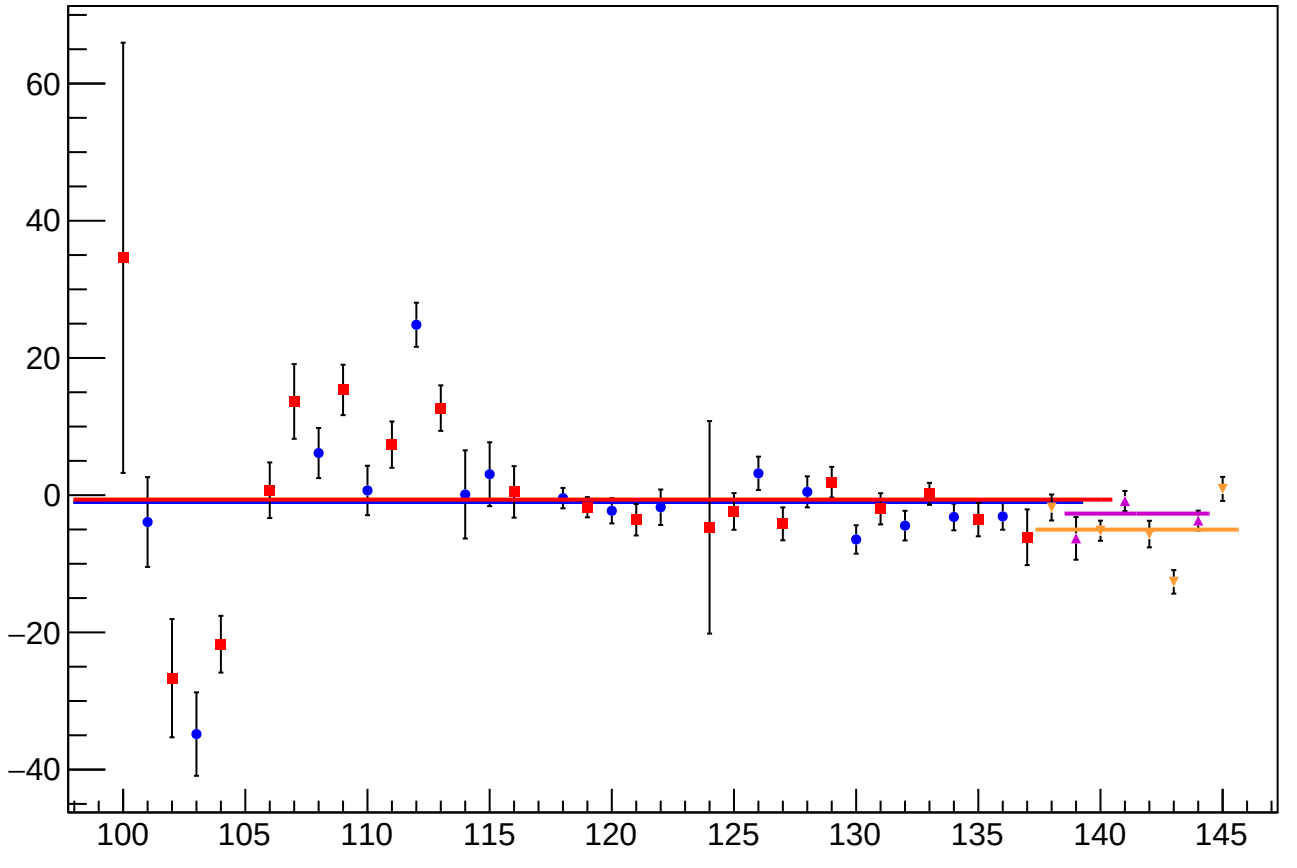
Left: 18.255+/-0.702 $\chi^2$/NDF: 319.8/7

Right: 11.351+/-0.435 $\chi^2$/NDF: 3038.2/34

In: 13.299+/-0.535 $\chi^2$/NDF:1190.0/18

Out: 13.232+/-0.512 $\chi^2$/NDF:2237.8/23

All: 13.264+/-0.370 $\chi^2$/NDF: 3427.8/42




Right In: -0.993+/-0.619 $\chi^2$/NDF: 116.3/15

Left Out: -5.017+/-0.773 $\chi^2$/NDF:34.1/4

Right Out: -0.644+/-0.636 $\chi^2$/NDF: 94.2/18

Left In: -2.687+/-0.977 $\chi^2$/NDF:3.4/2

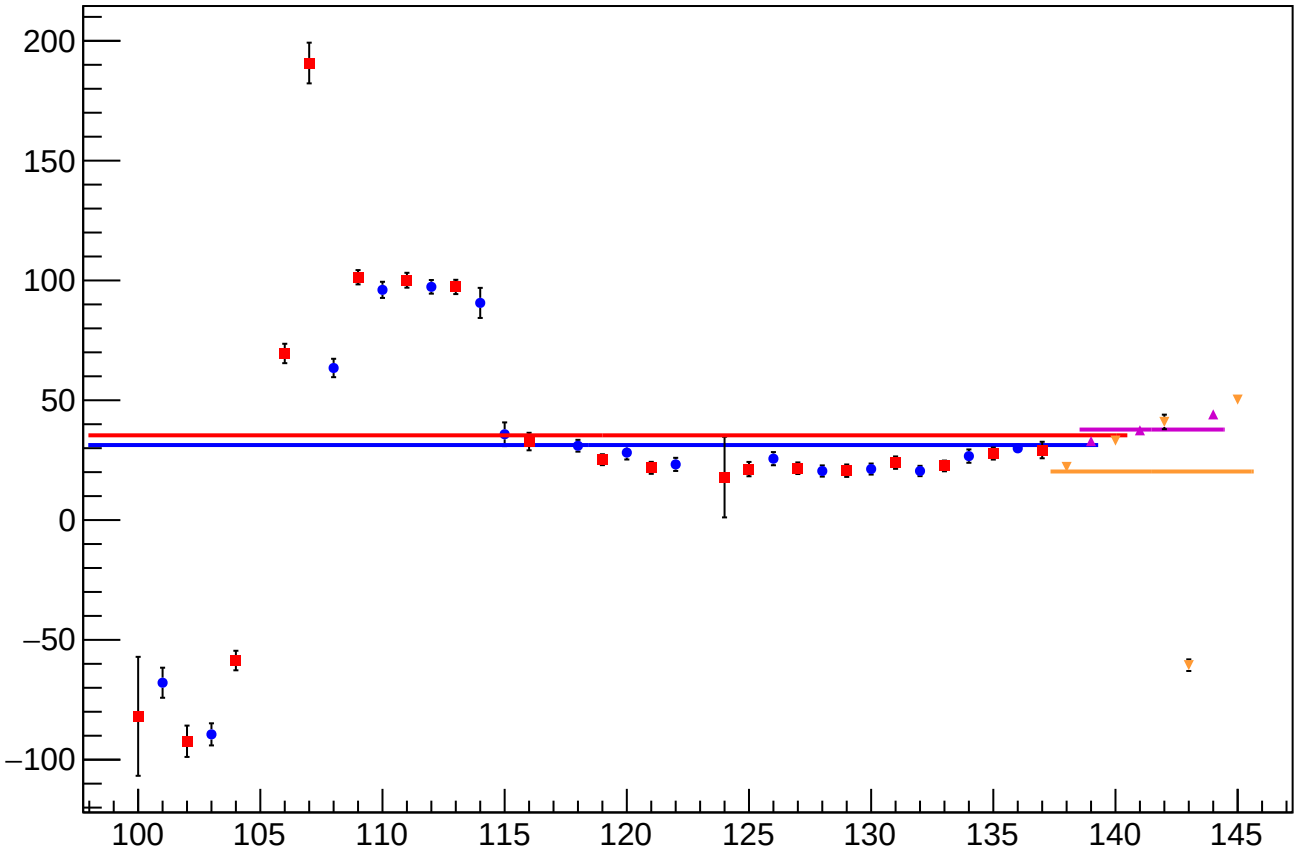
Left: -4.120+/-0.606 $\chi^2$/NDF: 41.0/7

Right: -0.823+/-0.443 $\chi^2$/NDF: 210.7/34

In: -1.479+/-0.523 $\chi^2$/NDF:121.9/18

Out: -2.408+/-0.491 $\chi^2$/NDF:147.4/23

All: -1.973+/-0.358 $\chi^2$/NDF: 271.0/42




Right In: 31.310+/-0.700 $\chi^2$/NDF: 2085.9/15

Left Out: 20.271+/-0.951 $\chi^2$/NDF:1417.1/4

Right Out: 35.366+/-0.717 $\chi^2$/NDF: 2897.7/18

Left In: 37.772+/-1.120 $\chi^2$/NDF:17.2/2

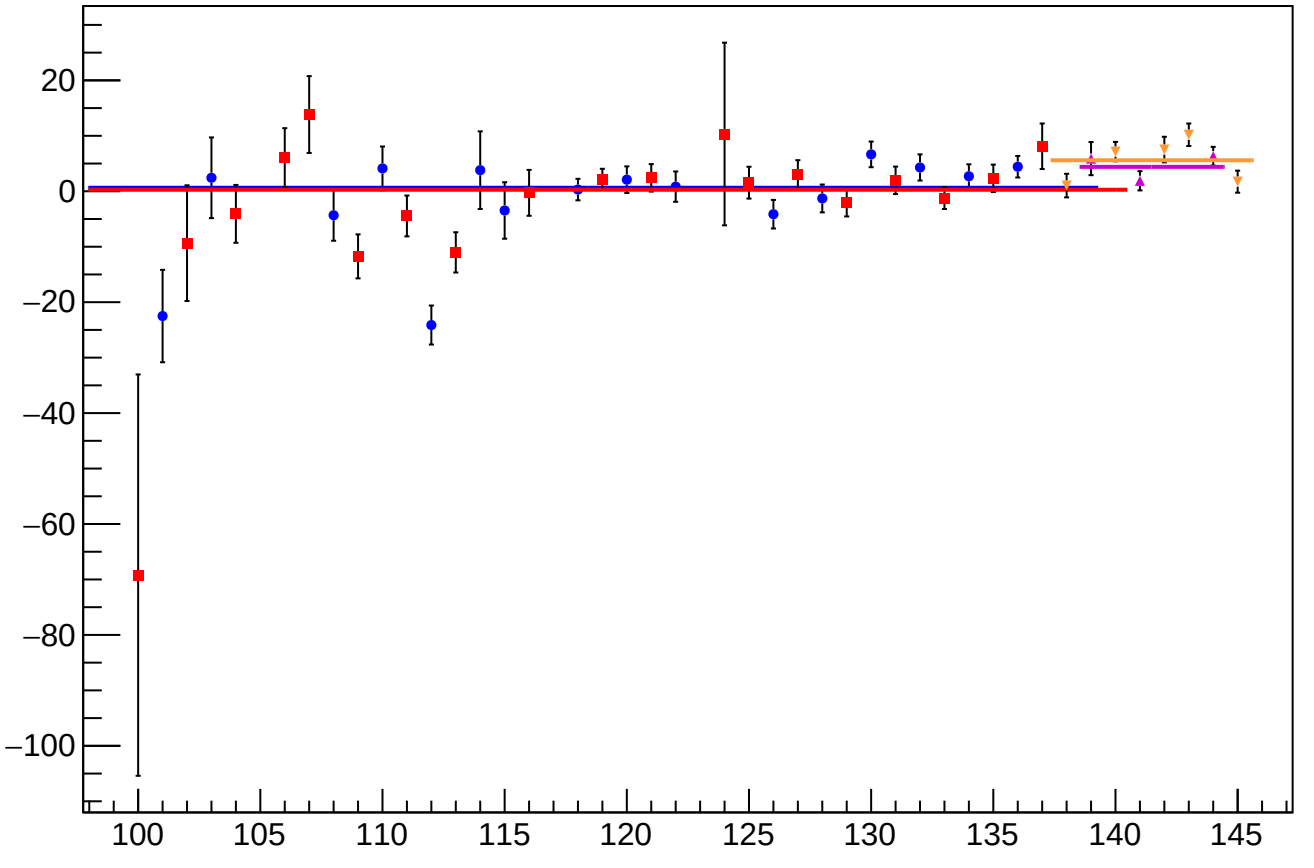
Left: 27.600+/-0.725 $\chi^2$/NDF: 1576.1/7

Right: 33.289+/-0.501 $\chi^2$/NDF: 4999.9/34

In: 33.125+/-0.594 $\chi^2$/NDF:2127.0/18

Out: 29.892+/-0.573 $\chi^2$/NDF:4475.4/23

All: 31.450+/-0.412 $\chi^2$/NDF: 6617.7/42




Right In: 0.632+/-0.705 $\chi^2$/NDF: 78.4/15

Left Out: 5.592+/-0.901 $\chi^2$/NDF:15.0/4

Right Out: 0.274+/-0.726 $\chi^2$/NDF: 40.5/18

Left In: 4.404+/-1.123 $\chi^2$/NDF:3.6/2

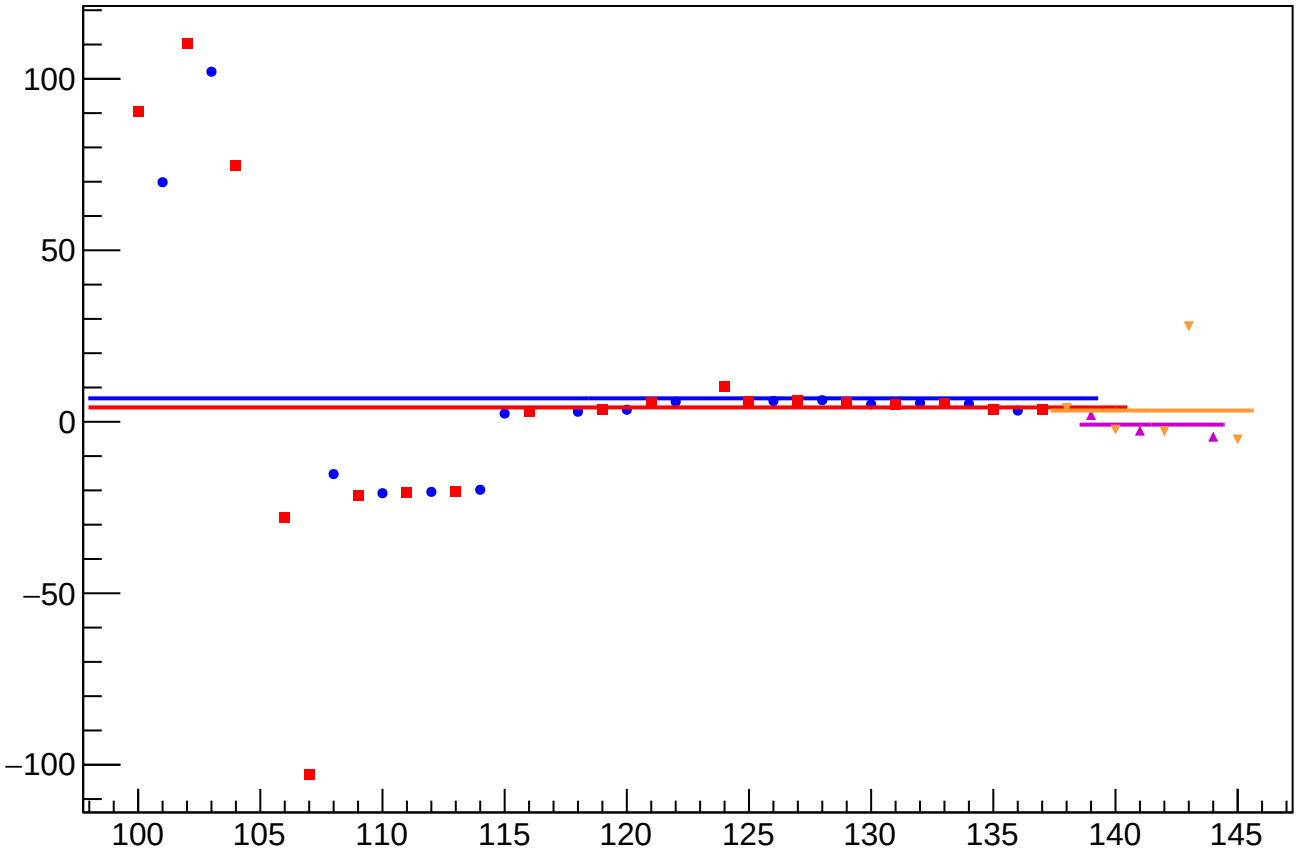
Left: 5.126+/-0.703 $\chi^2$/NDF: 19.3/7

Right: 0.459+/-0.506 $\chi^2$/NDF: 119.0/34

In: 1.698+/-0.597 $\chi^2$/NDF:90.2/18

Out: 2.367+/-0.565 $\chi^2$/NDF:76.6/23

All: 2.051+/-0.410 $\chi^2$/NDF: 167.4/42




Right In: 6.838+/-0.043 $\chi^2$/NDF: 320954.7/15

Left Out: 3.287+/-0.039 $\chi^2$/NDF:77368.1/4

Right Out: 4.190+/-0.046 $\chi^2$/NDF: 434546.8/18

Left In: -0.823+/-0.044 $\chi^2$/NDF:3883.1/2

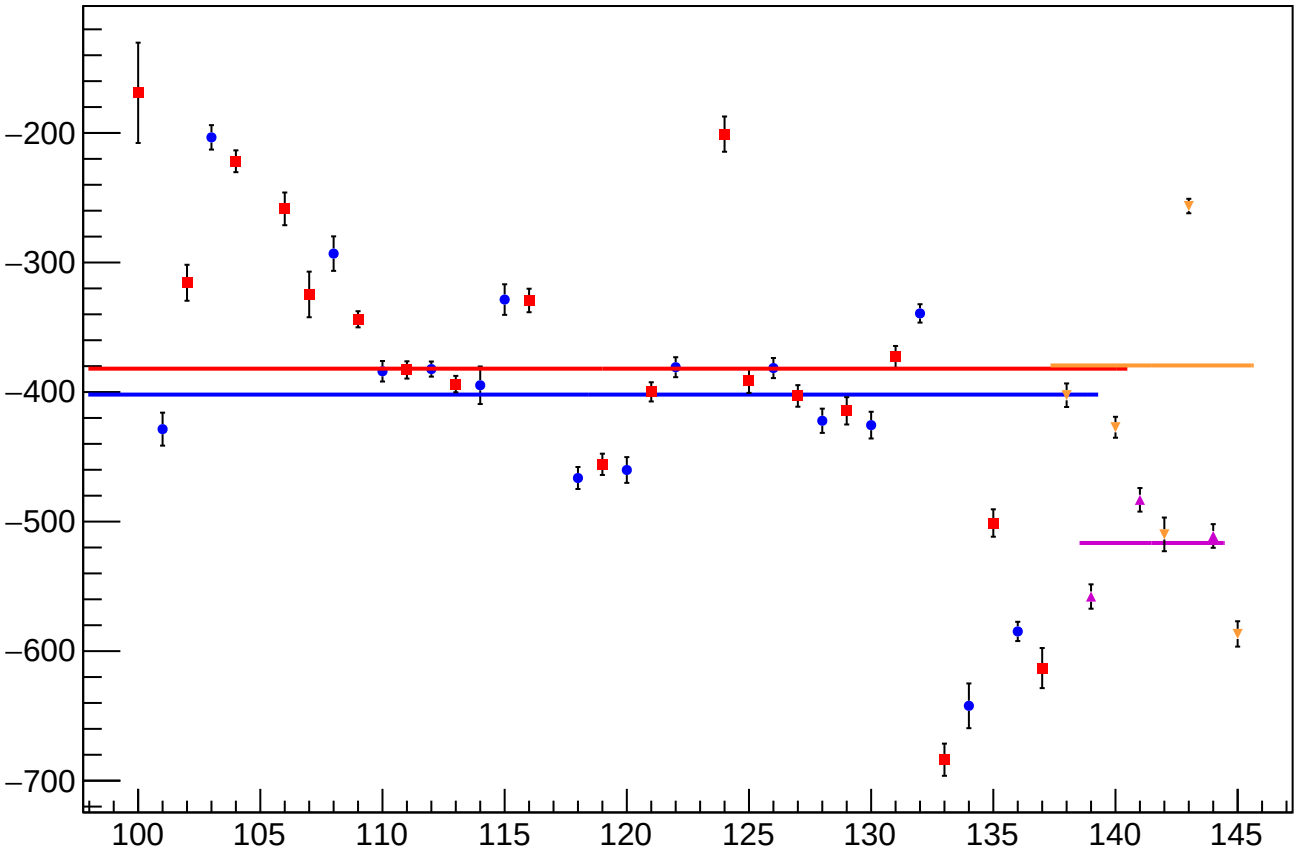
Left: 1.488+/-0.029 $\chi^2$/NDF: 86107.0/7

Right: 5.616+/-0.031 $\chi^2$/NDF: 757263.1/34

In: 3.129+/-0.031 $\chi^2$/NDF:340315.9/18

Out: 3.662+/-0.030 $\chi^2$/NDF:512137.3/23

All: 3.404+/-0.021 $\chi^2$/NDF: 852608.0/42




Right In: -401.961+/-2.236 $\chi^2$/NDF: 1563.3/15

Left Out: -379.469+/-3.632 $\chi^2$/NDF:1075.4/4

Right Out: -381.949+/-2.124 $\chi^2$/NDF: 1817.4/18

Left In: -516.506+/-5.317 $\chi^2$/NDF:33.1/2

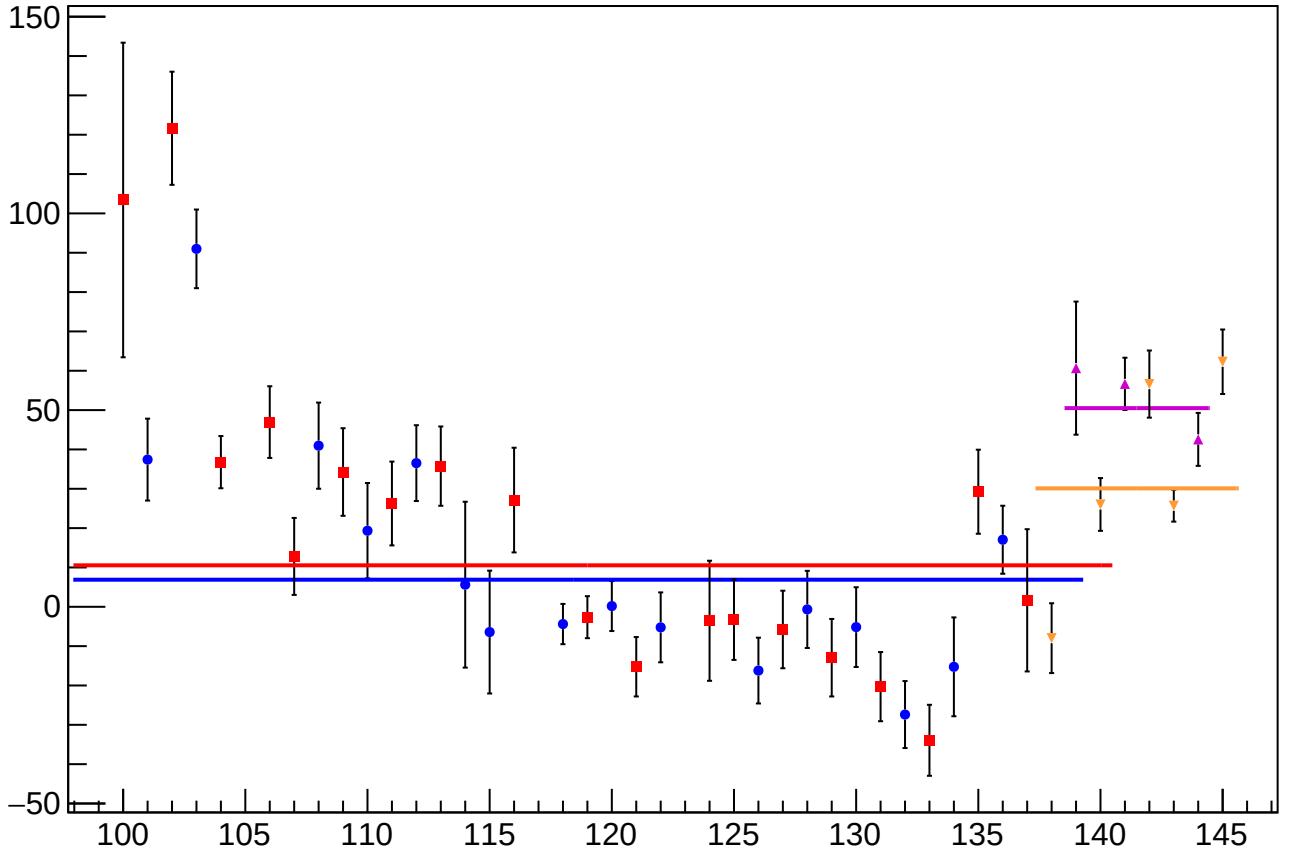
Left: -423.071+/-2.999 $\chi^2$/NDF: 1561.5/7

Right: -391.443+/-1.540 $\chi^2$/NDF: 3422.8/34

In: -419.176+/-2.061 $\chi^2$/NDF:1990.8/18

Out: -381.317+/-1.834 $\chi^2$/NDF:2893.2/23

All: -398.043+/-1.370 $\chi^2$/NDF: 5072.2/42




Right In: 6.889+/-2.264 $\chi^2$/NDF: 138.4/15

Left Out: 30.101+/-2.833 $\chi^2$/NDF:45.0/4

Right Out: 10.544+/-2.197 $\chi^2$/NDF: 180.0/18

Left In: 50.500+/-4.554 $\chi^2$/NDF:2.6/2

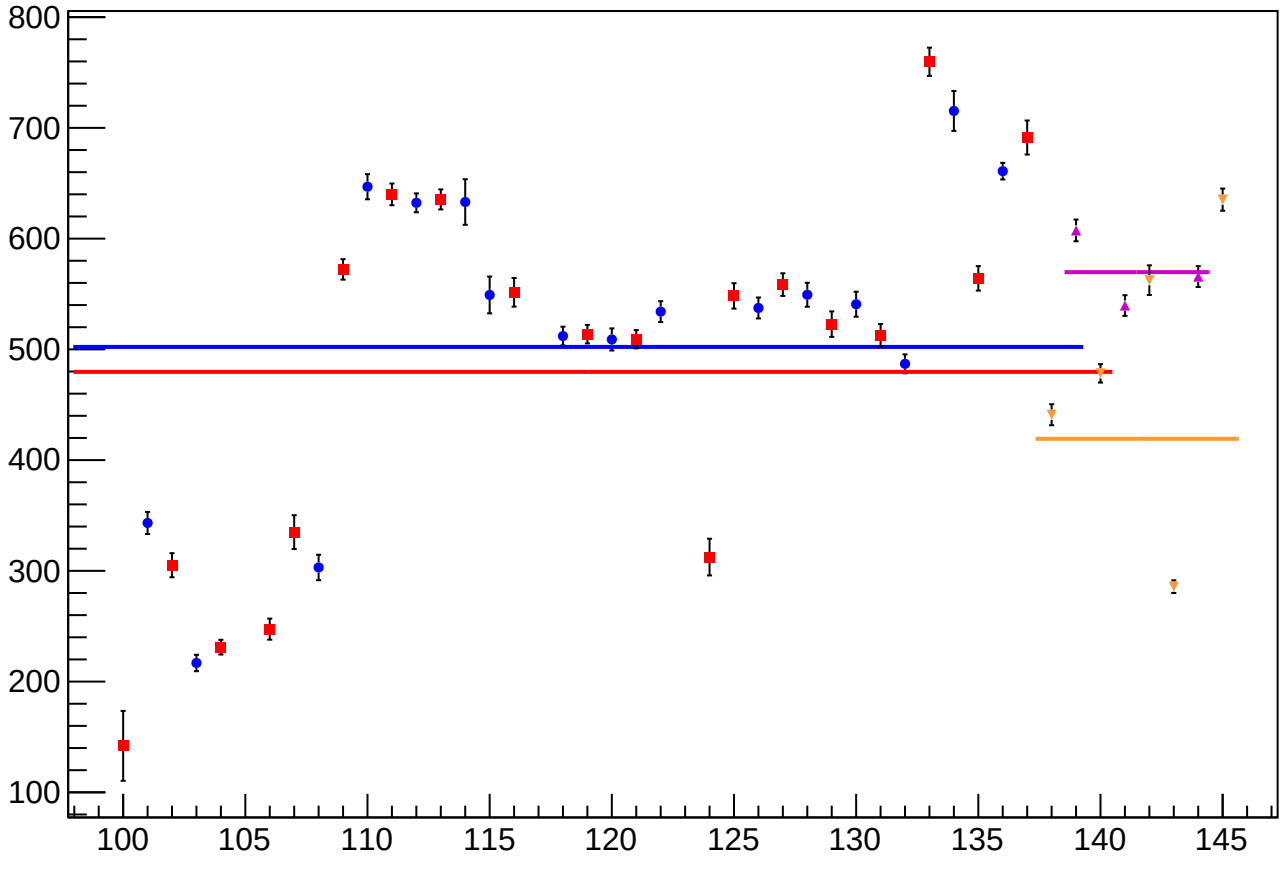
Left: 35.793+/-2.405 $\chi^2$/NDF: 62.1/7

Right: 8.772+/-1.577 $\chi^2$/NDF: 319.8/34

In: 15.534+/-2.027 $\chi^2$/NDF:214.6/18

Out: 17.888+/-1.736 $\chi^2$/NDF:254.8/23

All: 16.892+/-1.319 $\chi^2$/NDF: 470.2/42




Right In: 502.213+/-2.493 $\chi^2$/NDF: 3135.2/15

Left Out: 419.238+/-3.741 $\chi^2$/NDF:1175.0/4

Right Out: 479.679+/-2.399 $\chi^2$/NDF: 4138.5/18

Left In: 569.734+/-5.489 $\chi^2$/NDF:25.4/2

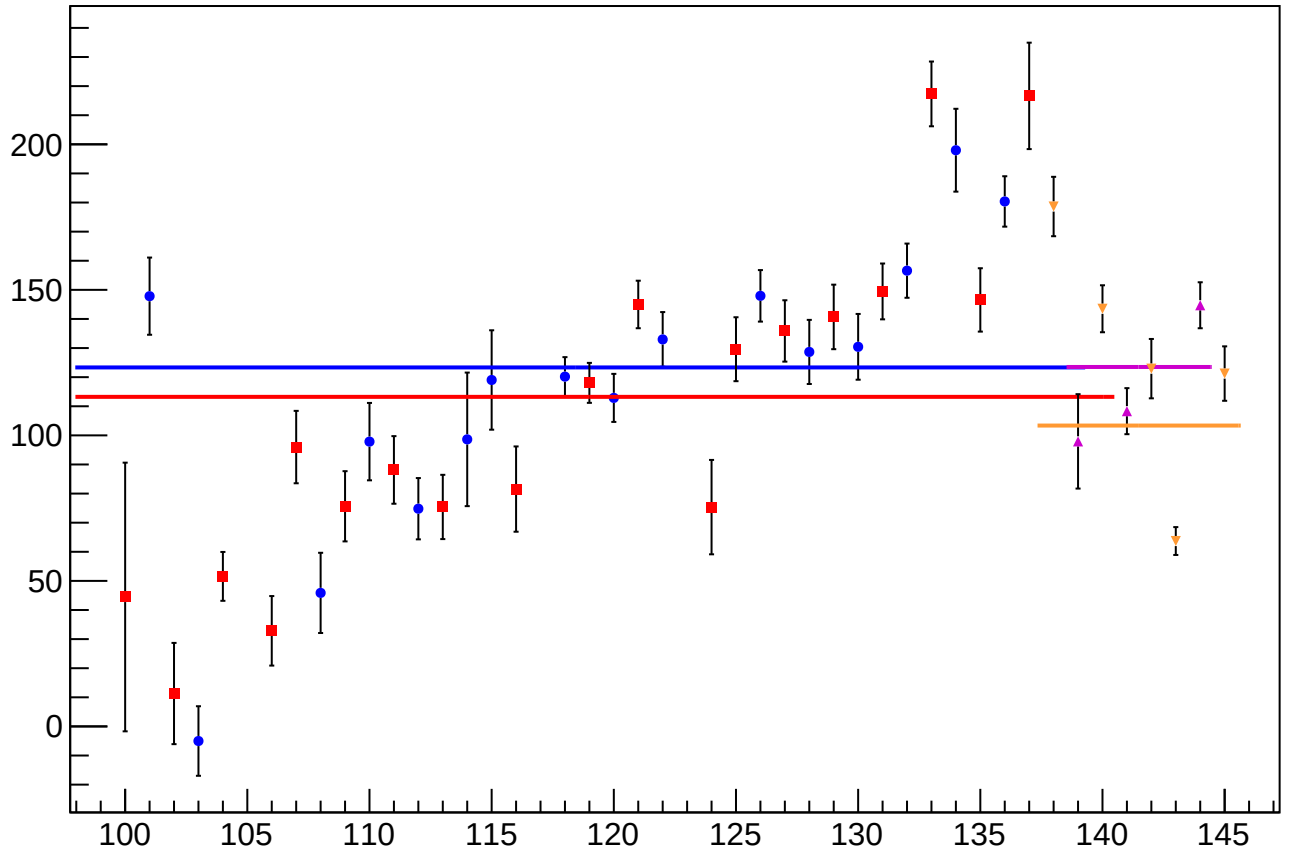
Left: 466.977+/-3.092 $\chi^2$/NDF: 1713.6/7

Right: 490.515+/-1.729 $\chi^2$/NDF: 7316.1/34

In: 513.758+/-2.270 $\chi^2$/NDF:3286.0/18

Out: 462.066+/-2.020 $\chi^2$/NDF:5498.4/23

All: 484.909+/-1.509 $\chi^2$/NDF: 9073.9/42




Right In: 123.344+/-2.627 $\chi^2$/NDF: 271.4/15

Left Out: 103.373+/-3.340 $\chi^2$/NDF:155.1/4

Right Out: 113.235+/-2.545 $\chi^2$/NDF: 345.8/18

Left In: 123.501+/-5.285 $\chi^2$/NDF:13.4/2

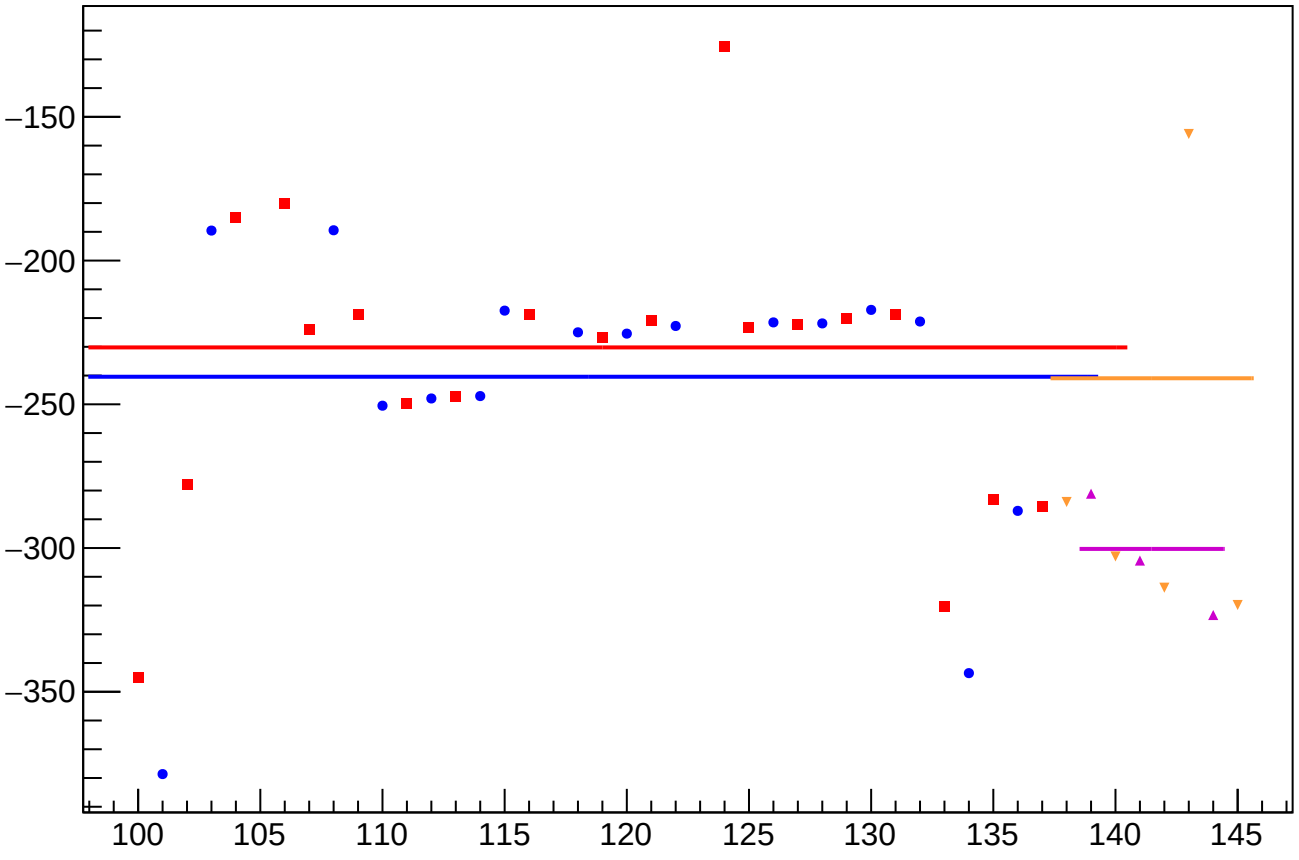
Left: 109.119+/-2.823 $\chi^2$/NDF: 178.9/7

Right: 118.129+/-1.828 $\chi^2$/NDF: 624.8/34

In: 123.375+/-2.352 $\chi^2$/NDF:284.7/18

Out: 109.613+/-2.024 $\chi^2$/NDF:506.4/23

All: 115.468+/-1.534 $\chi^2$/NDF: 810.8/42




Right In: -240.411+/-0.151 $\chi^2$/NDF: 134152.1/15

Left Out: -240.942+/-0.156 $\chi^2$/NDF:223684.1/4

Right Out: -230.207+/-0.146 $\chi^2$/NDF: 83431.4/18

Left In: -300.304+/-0.220 $\chi^2$/NDF:6114.4/2

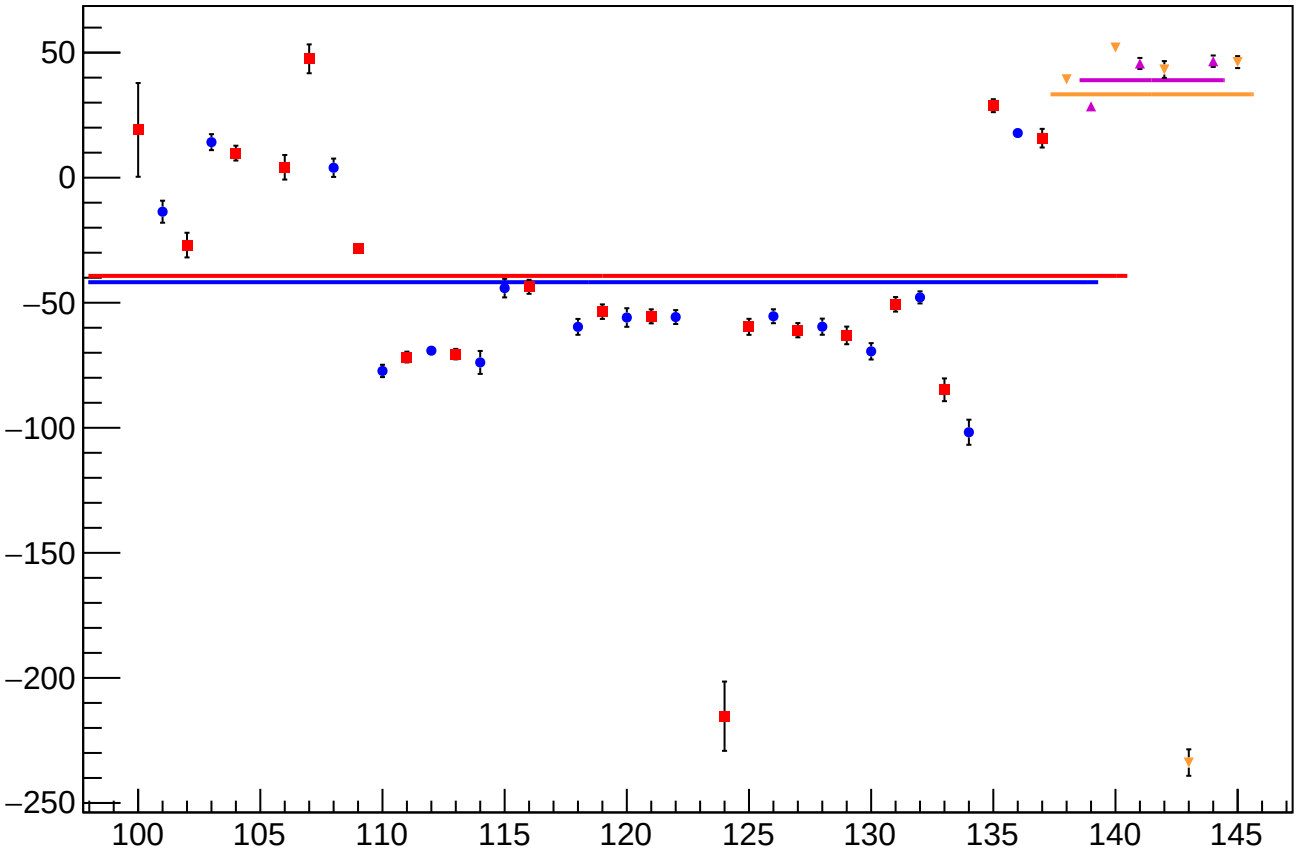
Left: -260.748+/-0.127 $\chi^2$/NDF: 278250.6/7

Right: -235.167+/-0.105 $\chi^2$/NDF: 219942.1/34

In: -259.508+/-0.124 $\chi^2$/NDF:190685.1/18

Out: -235.245+/-0.107 $\chi^2$/NDF:309635.8/23

All: -245.540+/-0.081 $\chi^2$/NDF: 522252.6/42




Right In: -41.788+/-0.723 $\chi^2$/NDF: 2405.5/15

Left Out: 33.330+/-1.103 $\chi^2$/NDF:2688.9/4

Right Out: -39.263+/-0.680 $\chi^2$/NDF: 2478.3/18

Left In: 38.969+/-1.226 $\chi^2$/NDF:49.6/2

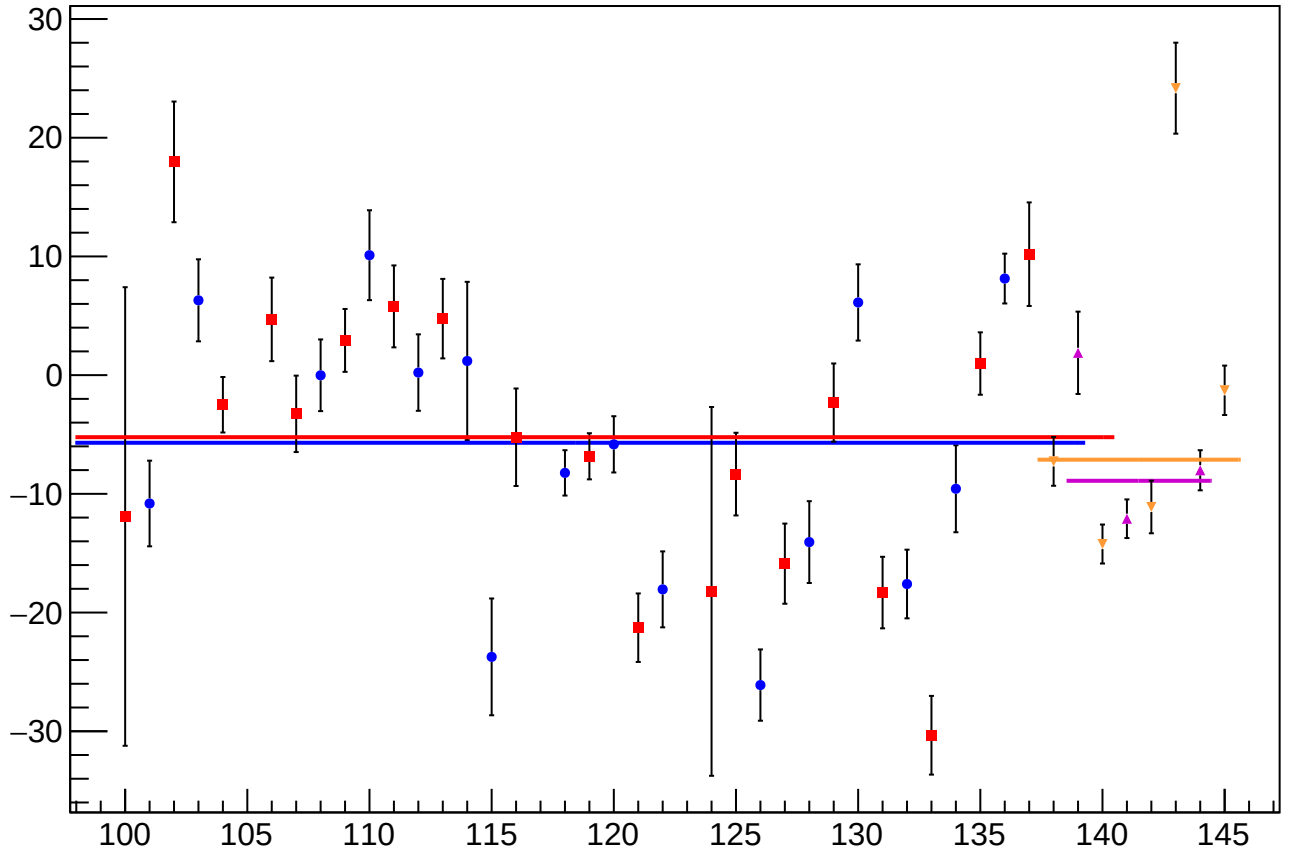
Left: 35.854+/-0.820 $\chi^2$/NDF: 2750.2/7

Right: -40.447+/-0.495 $\chi^2$/NDF: 4890.2/34

In: -20.946+/-0.623 $\chi^2$/NDF:5673.8/18

Out: -19.299+/-0.579 $\chi^2$/NDF:8304.7/23

All: -20.062+/-0.424 $\chi^2$/NDF: 13982.2/42




Right In: -5.697+/-0.753 $\chi^2$/NDF: 196.7/15

Left Out: -7.122+/-0.949 $\chi^2$/NDF:96.5/4

Right Out: -5.227+/-0.740 $\chi^2$/NDF: 197.3/18

Left In: -8.900+/-1.111 $\chi^2$/NDF:13.8/2

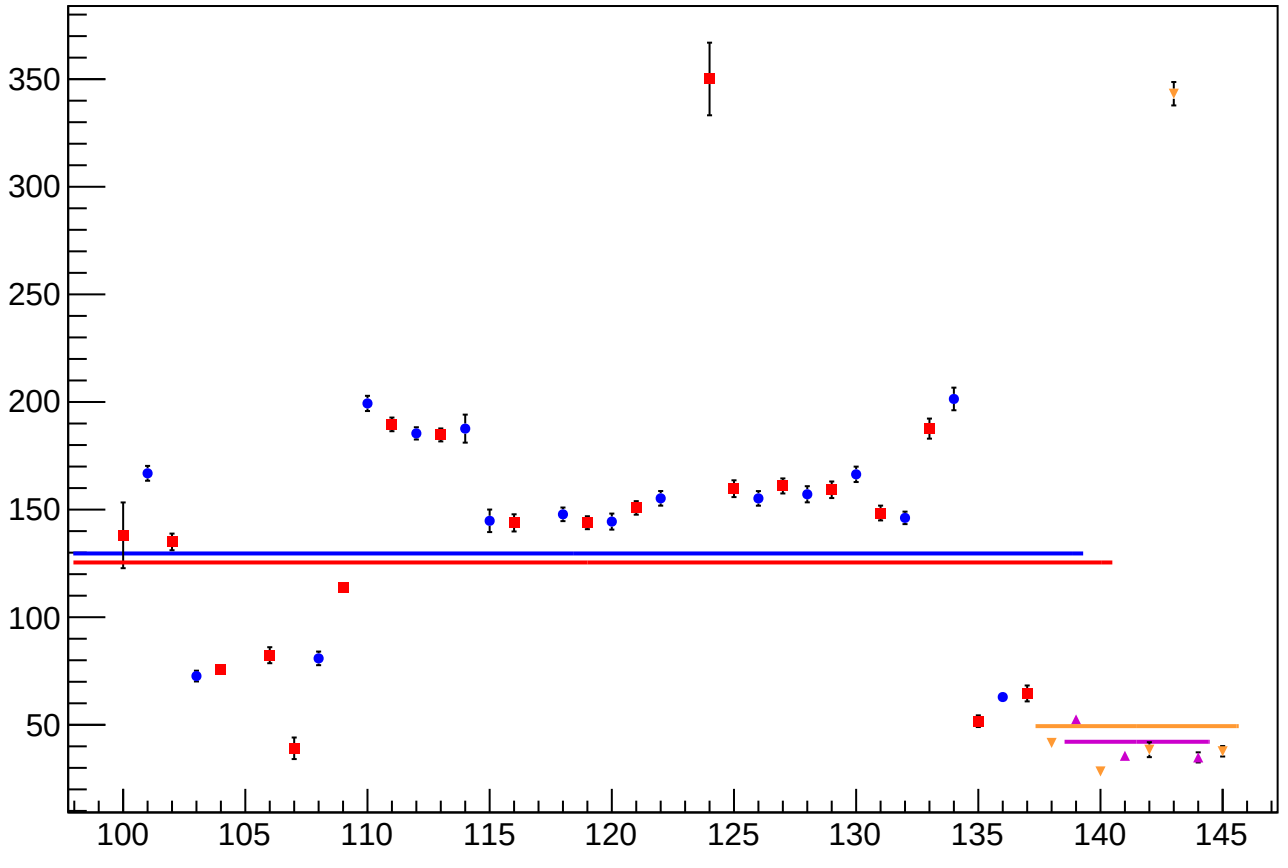
Left: -7.872+/-0.721 $\chi^2$/NDF: 111.8/7

Right: -5.458+/-0.528 $\chi^2$/NDF: 394.3/34

In: -6.706+/-0.623 $\chi^2$/NDF:216.2/18

Out: -5.944+/-0.583 $\chi^2$/NDF:296.3/23

All: -6.300+/-0.426 $\chi^2$/NDF: 513.3/42




Right In: 129.621+/-0.801 $\chi^2$/NDF: 3624.4/15

Left Out: 49.388+/-1.138 $\chi^2$/NDF:3074.8/4

Right Out: 125.435+/-0.790 $\chi^2$/NDF: 3503.2/18

Left In: 42.126+/-1.267 $\chi^2$/NDF:44.4/2

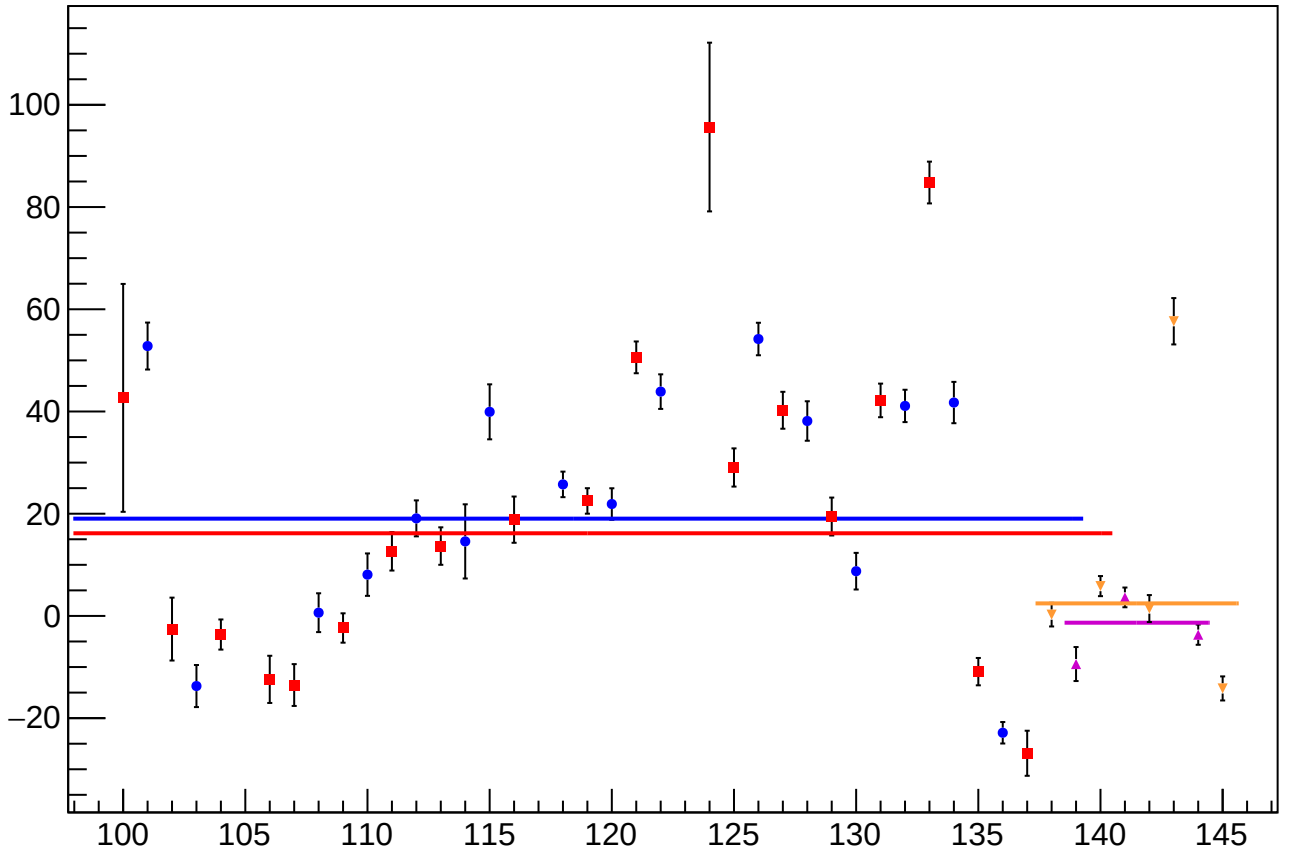
Left: 46.148+/-0.847 $\chi^2$/NDF: 3137.4/7

Right: 127.500+/-0.562 $\chi^2$/NDF: 7141.4/34

In: 104.661+/-0.677 $\chi^2$/NDF:7075.8/18

Out: 100.698+/-0.649 $\chi^2$/NDF:9593.6/23

All: 102.596+/-0.468 $\chi^2$/NDF: 16687.3/42




Right In: 19.035+/-0.860 $\chi^2$/NDF: 858.1/15

Left Out: 2.454+/-1.105 $\chi^2$/NDF:202.2/4

Right Out: 16.173+/-0.846 $\chi^2$/NDF: 941.3/18

Left In: -1.326+/-1.276 $\chi^2$/NDF:13.9/2

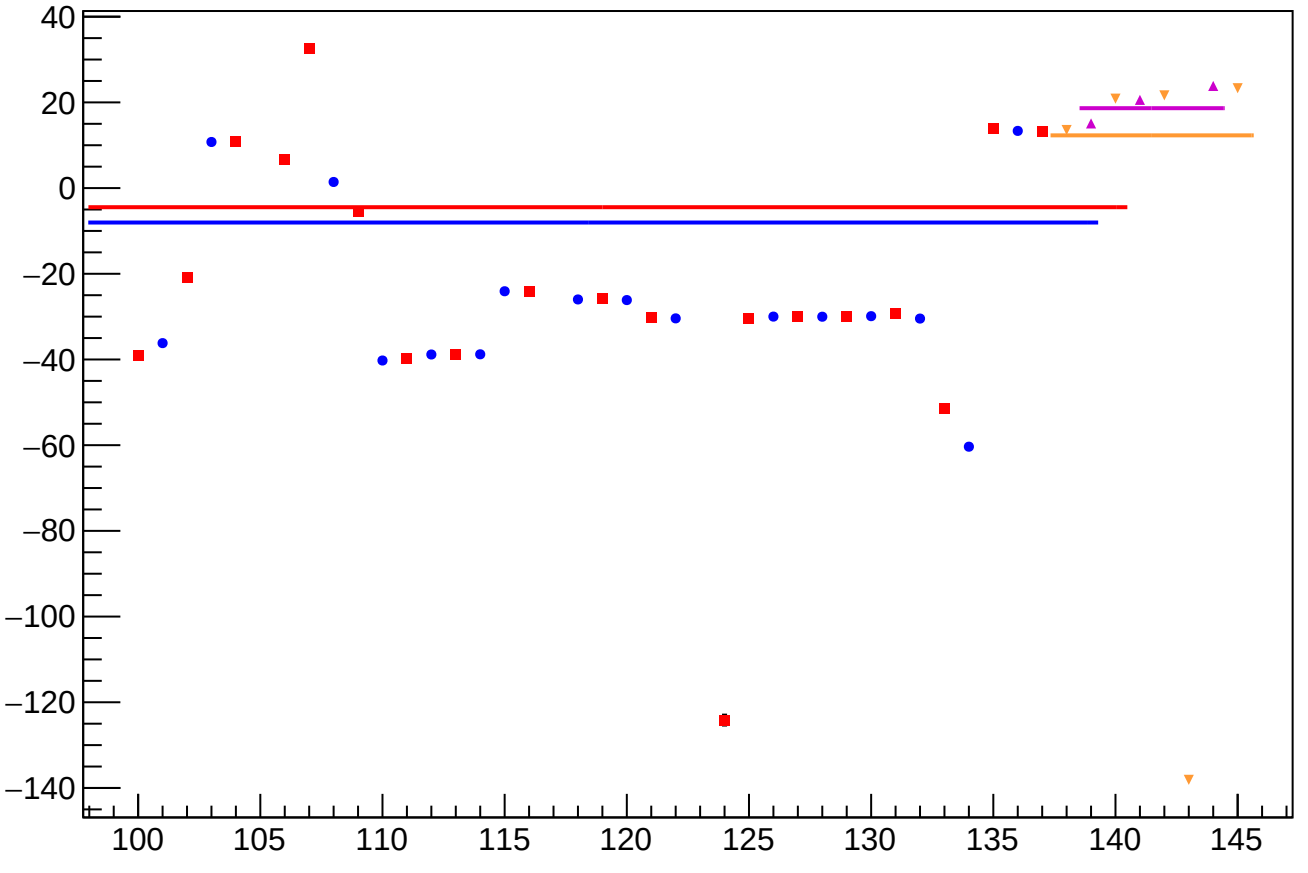
Left: 0.834+/-0.835 $\chi^2$/NDF: 221.1/7

Right: 17.581+/-0.603 $\chi^2$/NDF: 1804.9/34

In: 12.675+/-0.713 $\chi^2$/NDF:1047.1/18

Out: 11.104+/-0.672 $\chi^2$/NDF:1240.6/23

All: 11.843+/-0.489 $\chi^2$/NDF: 2290.3/42




Right In: -8.038+/-0.046 $\chi^2$/NDF: 267883.6/15

Left Out: 12.306+/-0.047 $\chi^2$/NDF:467851.2/4

Right Out: -4.461+/-0.047 $\chi^2$/NDF: 228422.2/18

Left In: 18.646+/-0.050 $\chi^2$/NDF:5345.0/2

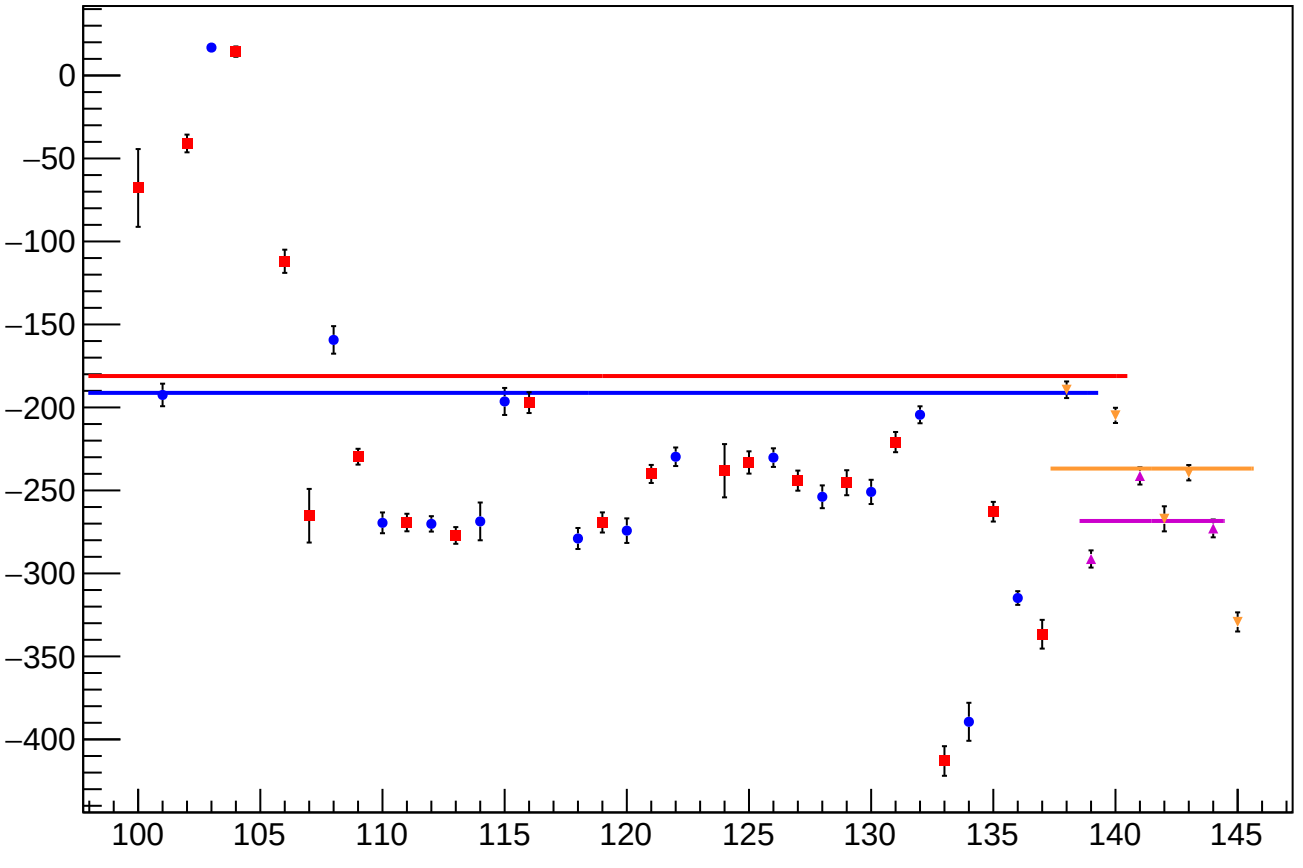
Left: 15.266+/-0.034 $\chi^2$/NDF: 481816.5/7

Right: -6.287+/-0.033 $\chi^2$/NDF: 499287.4/34

In: 4.183+/-0.034 $\chi^2$/NDF:428495.6/18

Out: 3.948+/-0.033 $\chi^2$/NDF:760648.6/23

All: 4.063+/-0.024 $\chi^2$/NDF: 1189168.9/42




Right In: -191.225+/-1.419 $\chi^2$/NDF: 7224.7/15

Left Out: -236.830+/-2.345 $\chi^2$/NDF:412.2/4

Right Out: -181.080+/-1.383 $\chi^2$/NDF: 7374.0/18

Left In: -268.400+/-3.027 $\chi^2$/NDF:47.6/2

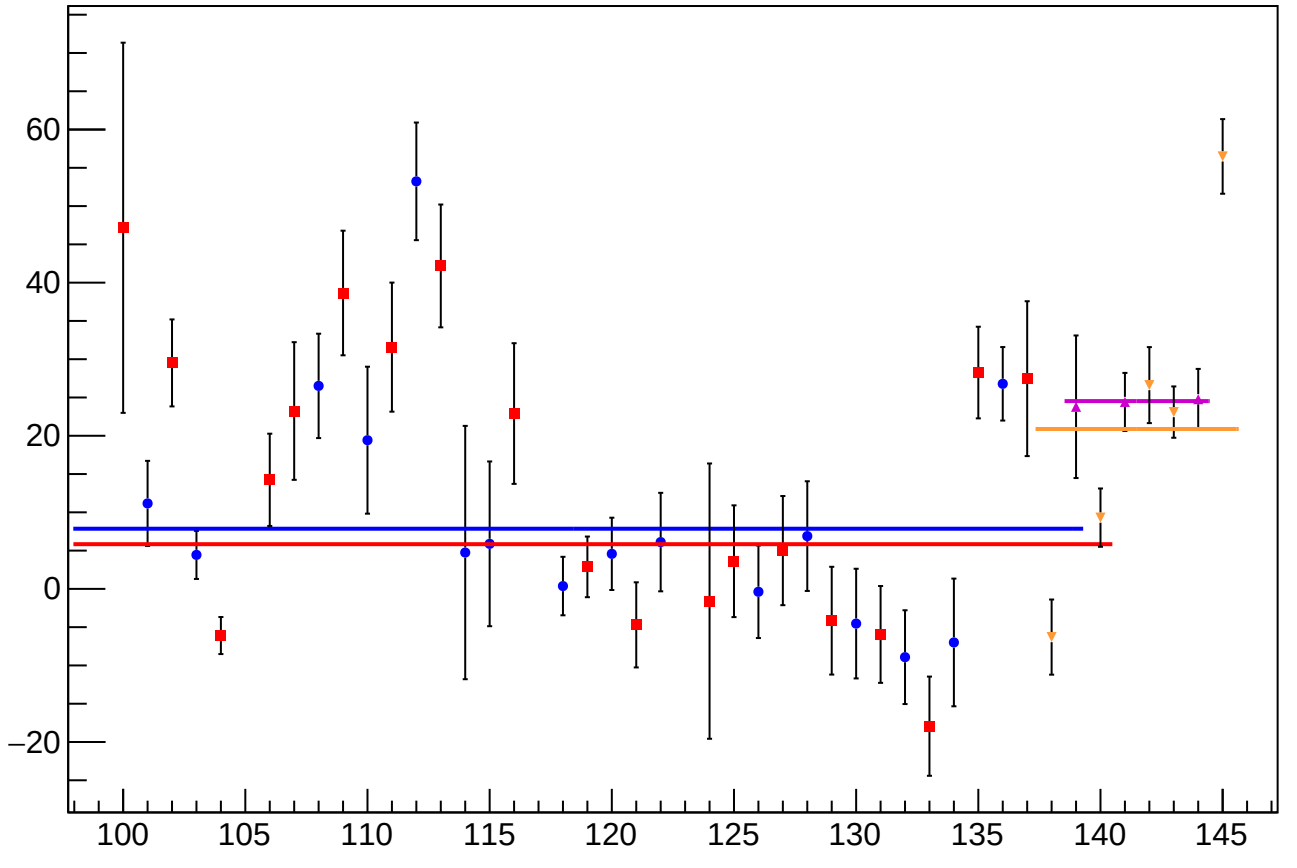
Left: -248.675+/-1.854 $\chi^2$/NDF: 527.8/7

Right: -186.022+/-0.990 $\chi^2$/NDF: 14624.9/34

In: -205.125+/-1.284 $\chi^2$/NDF:7805.4/18

Out: -195.457+/-1.191 $\chi^2$/NDF:8205.5/23

All: -199.926+/-0.873 $\chi^2$/NDF: 16041.3/42




Right In: 7.859+/-1.438 $\chi^2$/NDF: 80.9/15

Left Out: 20.886+/-1.883 $\chi^2$/NDF:95.0/4

Right Out: 5.839+/-1.355 $\chi^2$/NDF: 141.9/18

Left In: 24.529+/-2.625 $\chi^2$/NDF:0.0/2

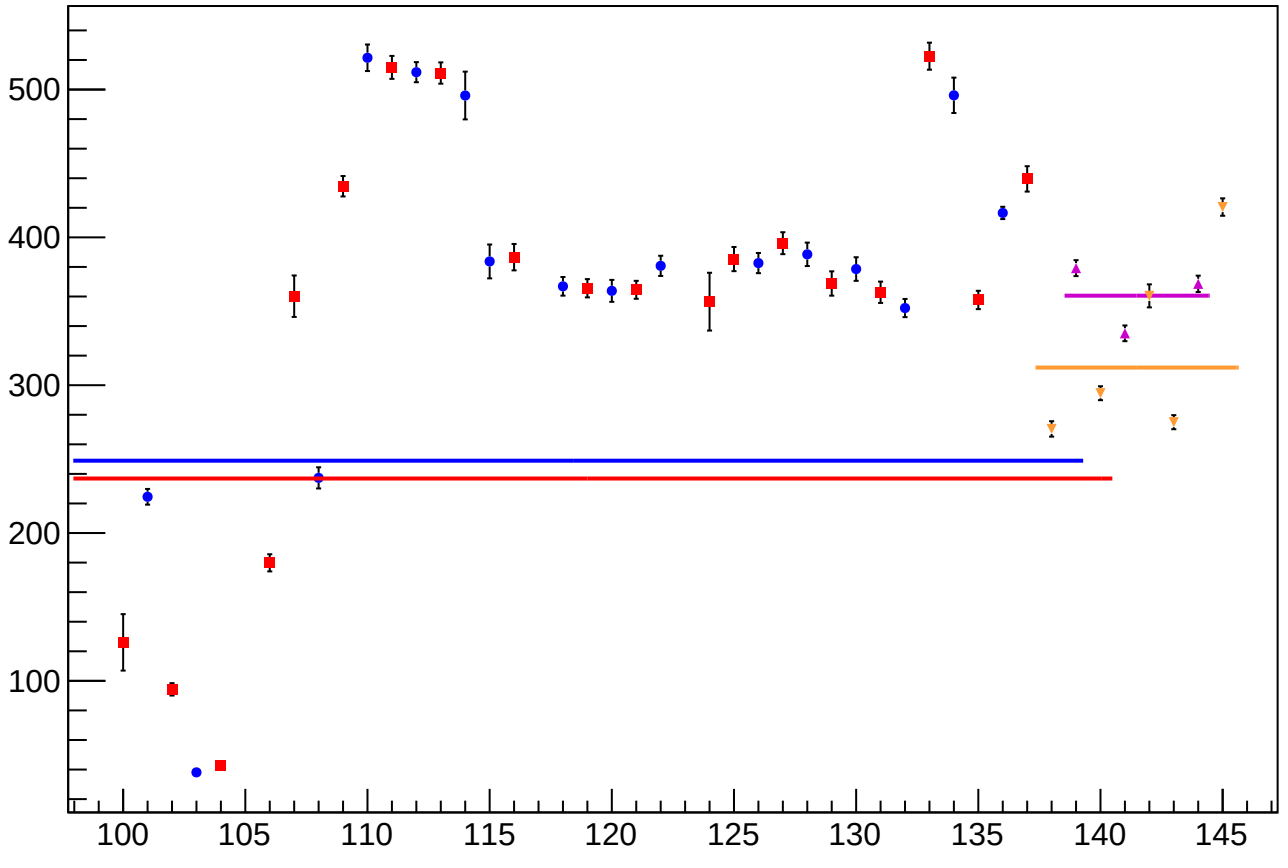
Left: 22.124+/-1.530 $\chi^2$/NDF: 96.3/7

Right: 6.789+/-0.986 $\chi^2$/NDF: 223.8/34

In: 11.706+/-1.261 $\chi^2$/NDF:111.9/18

Out: 10.976+/-1.100 $\chi^2$/NDF:279.0/23

All: 11.291+/-0.829 $\chi^2$/NDF: 391.1/42




Right In: 248.932+/-1.422 $\chi^2$/NDF: 15302.2/15

Left Out: 311.926+/-2.417 $\chi^2$/NDF:516.1/4

Right Out: 236.871+/-1.407 $\chi^2$/NDF: 15657.3/18

Left In: 360.561+/-3.126 $\chi^2$/NDF:36.9/2

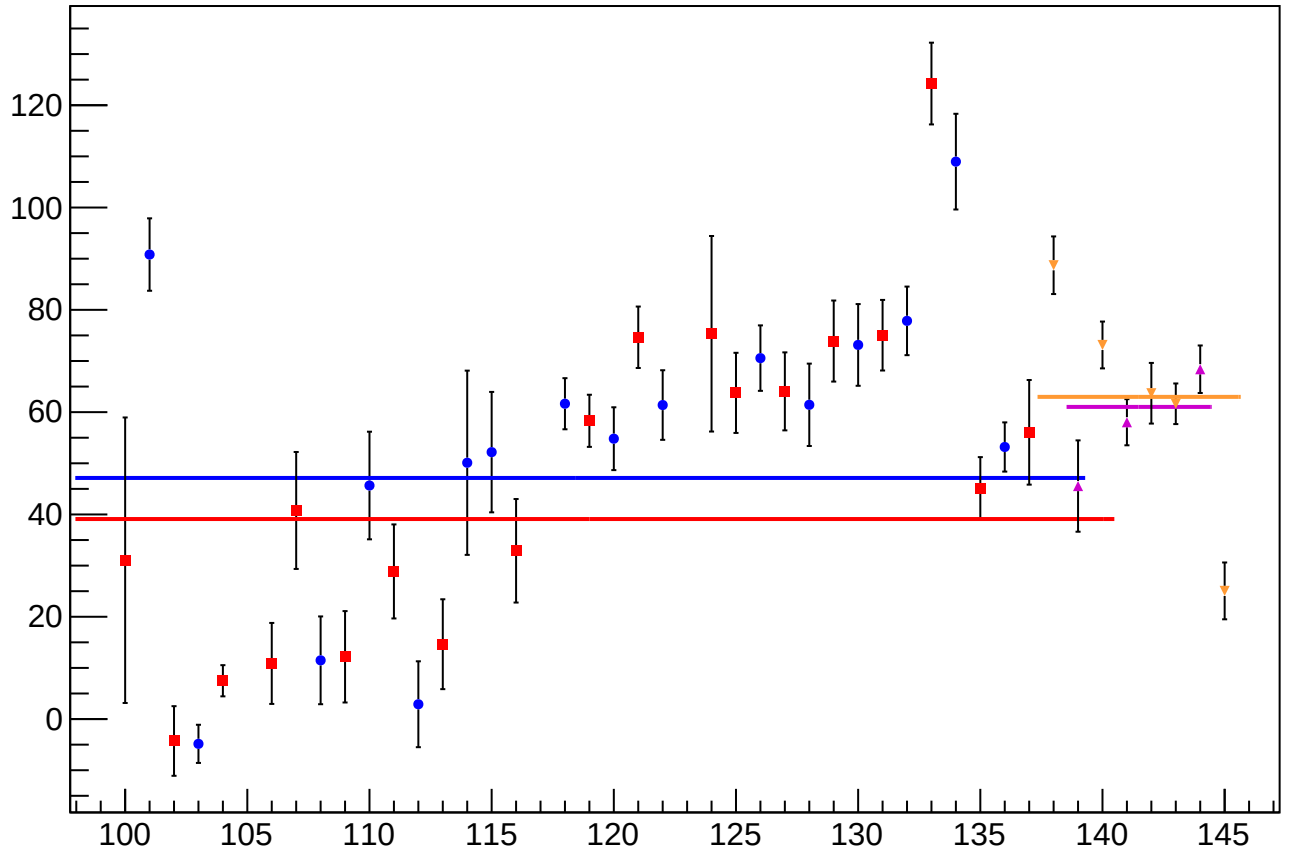
Left: 330.124+/-1.912 $\chi^2$/NDF: 704.6/7

Right: 242.838+/-1.000 $\chi^2$/NDF: 30995.9/34

In: 268.069+/-1.294 $\chi^2$/NDF:16396.1/18

Out: 255.865+/-1.216 $\chi^2$/NDF:16893.9/23

All: 261.586+/-0.886 $\chi^2$/NDF: 33337.2/42




Right In: 47.137+/-1.668 $\chi^2$/NDF: 385.3/15

Left Out: 62.987+/-2.216 $\chi^2$/NDF:72.5/4

Right Out: 39.105+/-1.596 $\chi^2$/NDF: 416.5/18

Left In: 61.025+/-3.042 $\chi^2$/NDF:6.0/2

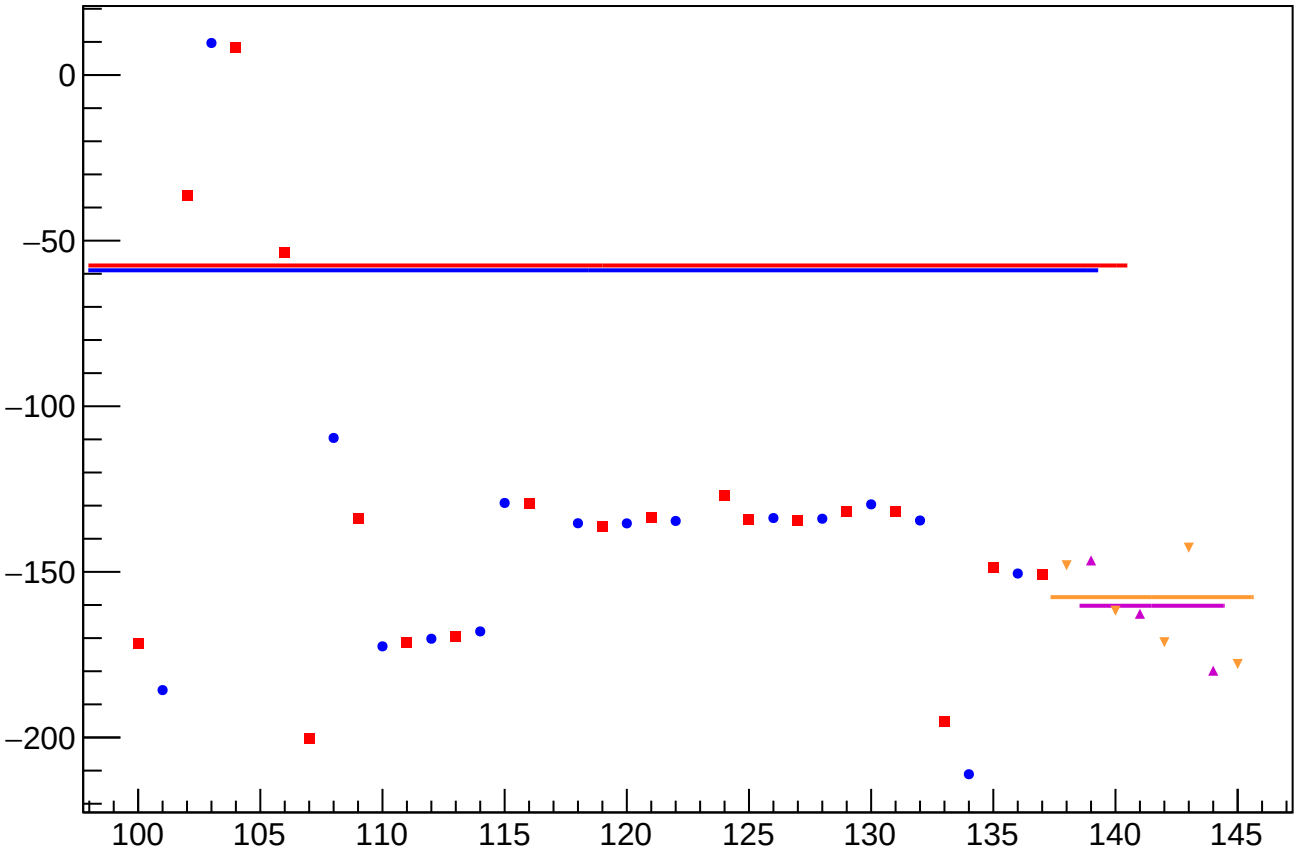
Left: 62.306+/-1.791 $\chi^2$/NDF: 78.8/7

Right: 42.944+/-1.153 $\chi^2$/NDF: 813.9/34

In: 50.347+/-1.462 $\chi^2$/NDF:407.3/18

Out: 47.259+/-1.295 $\chi^2$/NDF:565.5/23

All: 48.616+/-0.970 $\chi^2$/NDF: 975.3/42




Right In: -58.956+/-0.073 $\chi^2$/NDF: 1227079.0/15

Left Out: -157.628+/-0.101 $\chi^2$/NDF:17443.1/4

Right Out: -57.497+/-0.074 $\chi^2$/NDF: 871305.9/18

Left In: -160.228+/-0.125 $\chi^2$/NDF:11441.9/2

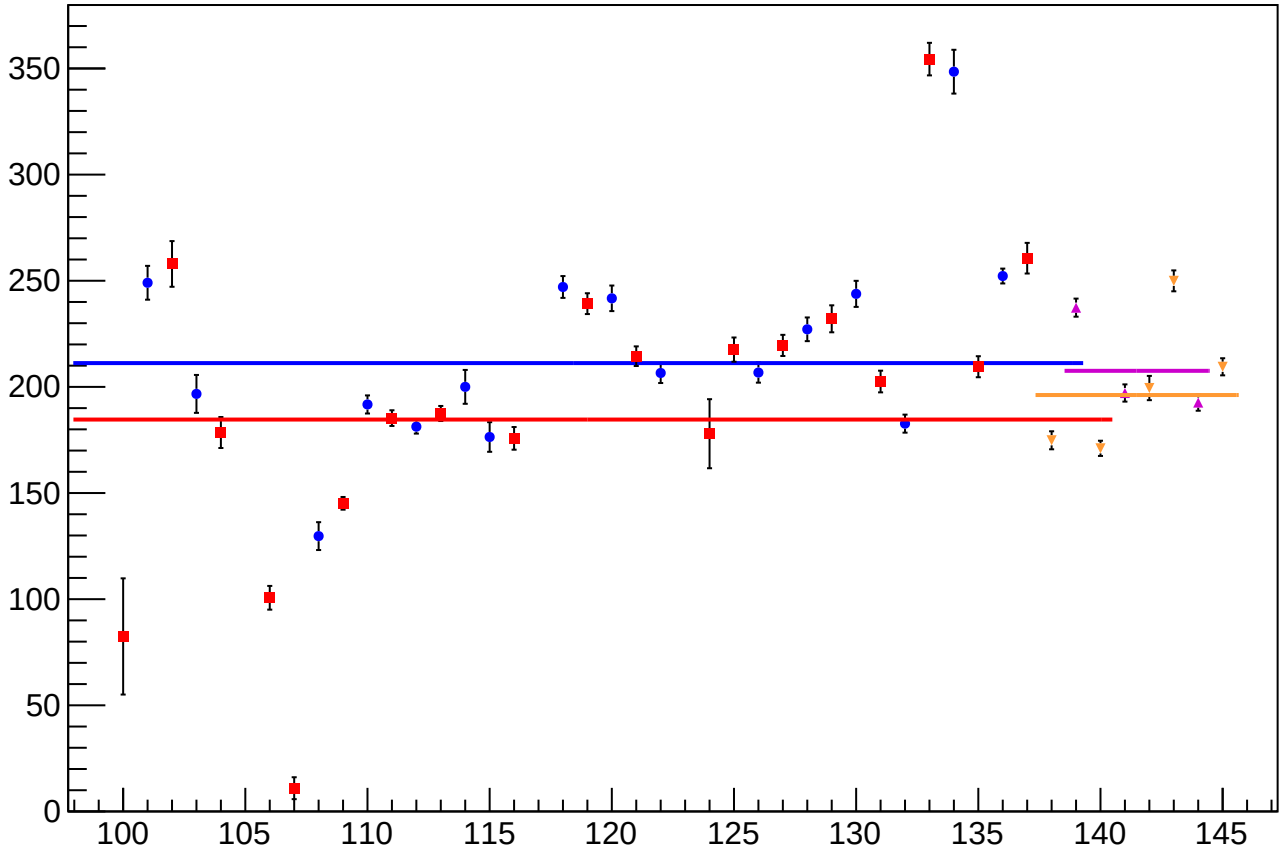
Left: -158.652+/-0.078 $\chi^2$/NDF: 29148.4/7

Right: -58.243+/-0.052 $\chi^2$/NDF: 2098582.3/34

In: -84.592+/-0.063 $\chi^2$/NDF:1731001.8/18

Out: -92.825+/-0.060 $\chi^2$/NDF:1530206.5/23

All: -88.911+/-0.043 $\chi^2$/NDF: 3270238.6/42




Right In: 211.210+/-1.296 $\chi^2$/NDF: 783.0/15

Left Out: 196.167+/-1.936 $\chi^2$/NDF:204.9/4

Right Out: 184.614+/-1.194 $\chi^2$/NDF: 2540.4/18

Left In: 207.568+/-2.336 $\chi^2$/NDF:70.5/2

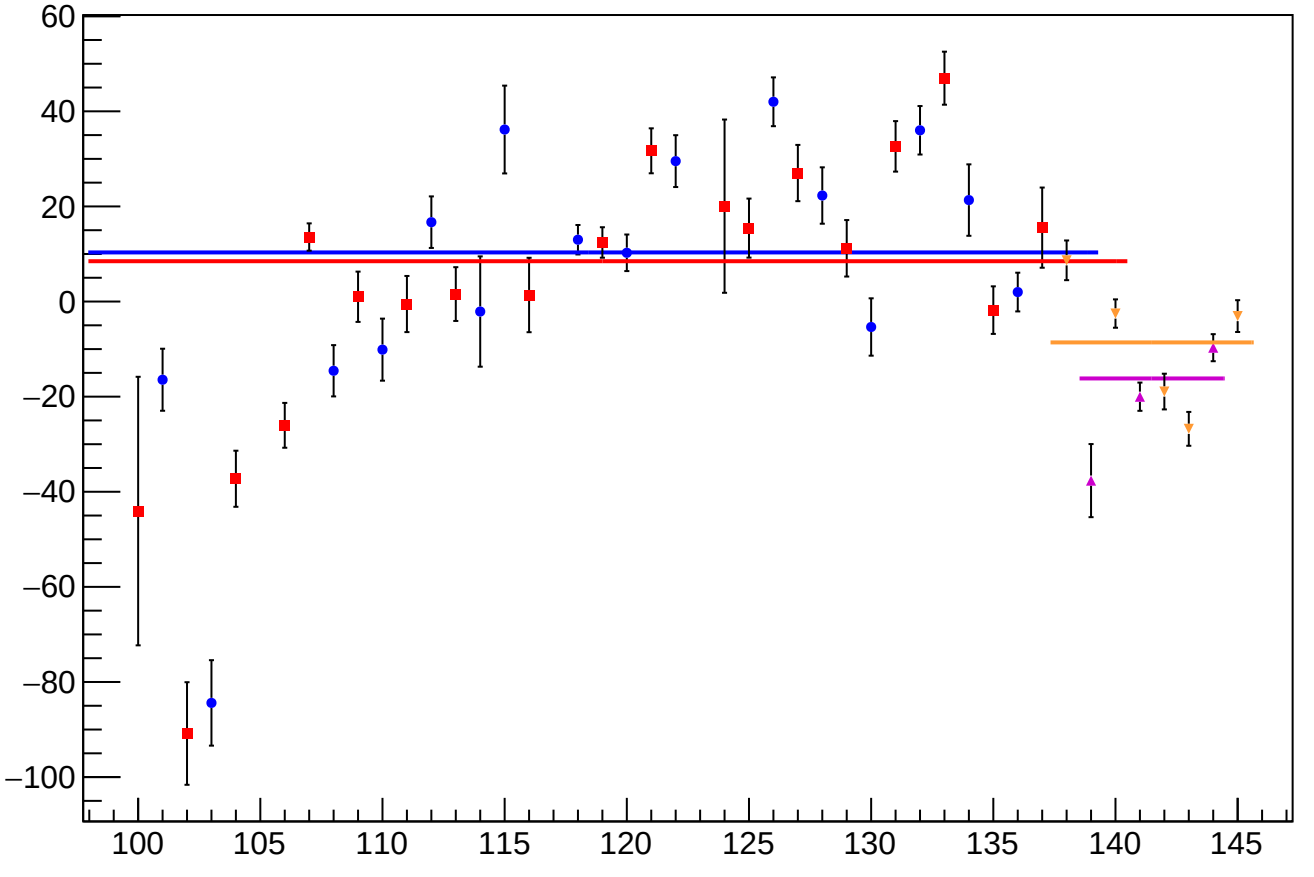
Left: 200.809+/-1.491 $\chi^2$/NDF: 289.5/7

Right: 196.825+/-0.878 $\chi^2$/NDF: 3551.2/34

In: 210.353+/-1.133 $\chi^2$/NDF:855.4/18

Out: 187.797+/-1.016 $\chi^2$/NDF:2771.0/23

All: 197.851+/-0.757 $\chi^2$/NDF: 3846.0/42




Right In: 10.329+/-1.333 $\chi^2$/NDF: 263.3/15

Left Out: -8.595+/-1.564 $\chi^2$/NDF:57.6/4

Right Out: 8.480+/-1.225 $\chi^2$/NDF: 322.3/18

Left In: -16.174+/-1.985 $\chi^2$/NDF:14.7/2

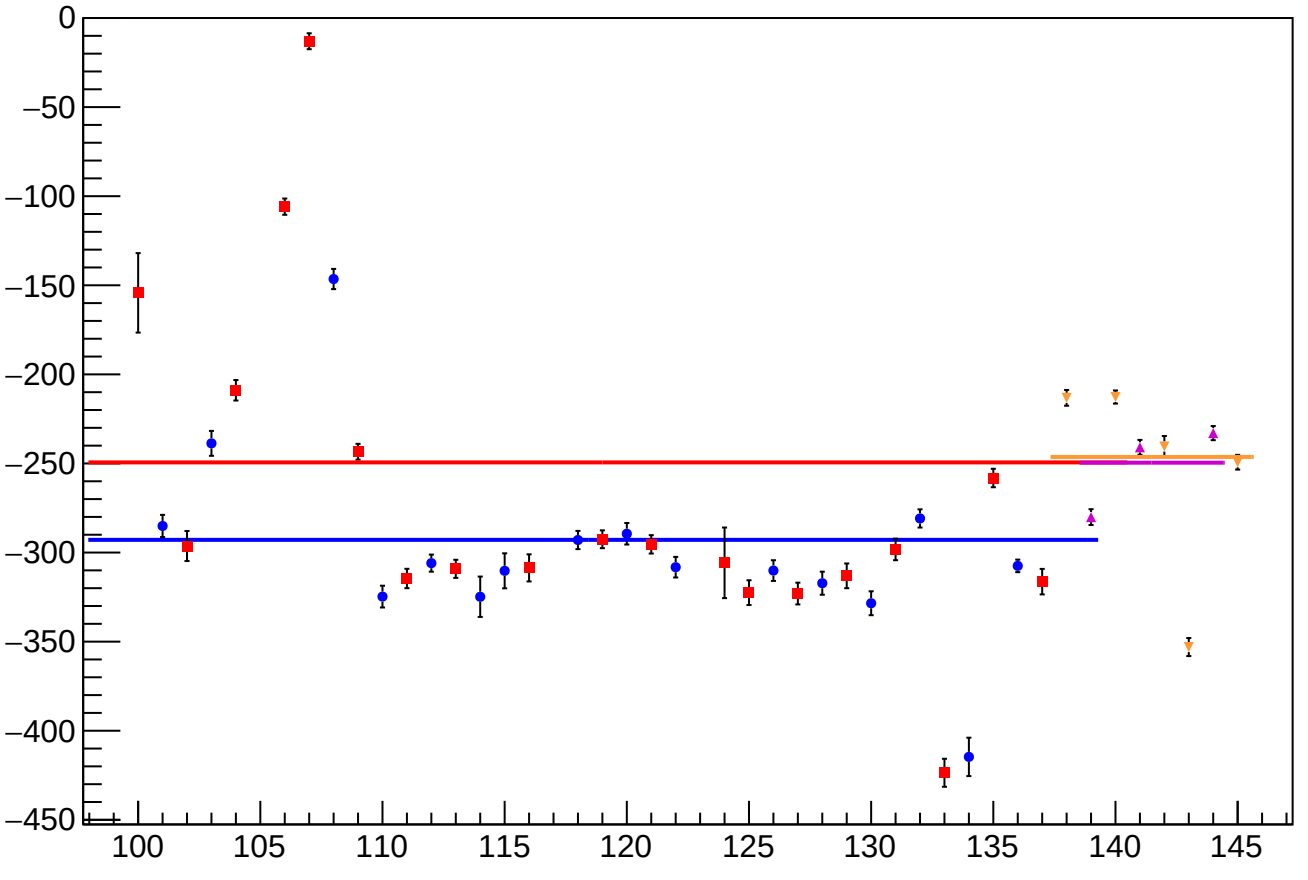
Left: -11.498+/-1.228 $\chi^2$/NDF: 81.3/7

Right: 9.326+/-0.902 $\chi^2$/NDF: 586.7/34

In: 2.092+/-1.106 $\chi^2$/NDF:400.8/18

Out: 1.988+/-0.964 $\chi^2$/NDF:453.9/23

All: 2.033+/-0.727 $\chi^2$/NDF: 854.7/42




Right In: -292.872+/-1.467 $\chi^2$/NDF: 983.5/15

Left Out: -246.341+/-1.997 $\chi^2$/NDF:585.0/4

Right Out: -249.407+/-1.369 $\chi^2$/NDF: 5368.5/18

Left In: -249.564+/-2.411 $\chi^2$/NDF:69.2/2

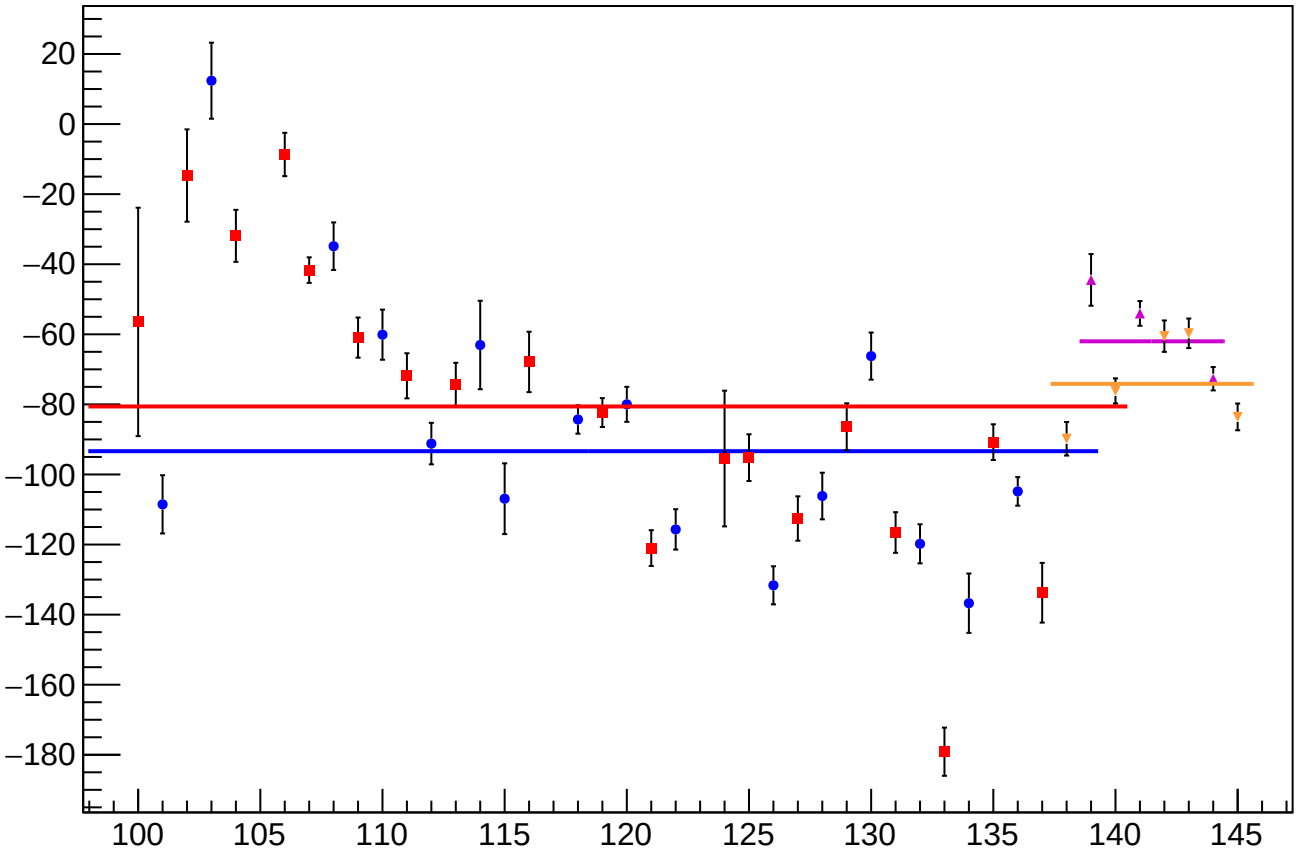
Left: -247.652+/-1.538 $\chi^2$/NDF: 655.2/7

Right: -269.627+/-1.001 $\chi^2$/NDF: 6821.1/34

In: -281.168+/-1.254 $\chi^2$/NDF:1288.0/18

Out: -248.427+/-1.129 $\chi^2$/NDF:5955.1/23

All: -263.088+/-0.839 $\chi^2$/NDF: 7619.7/42




Right In: -93.357+/-1.534 $\chi^2$/NDF: 355.3/15

Left Out: -74.140+/-1.838 $\chi^2$/NDF:38.1/4

Right Out: -80.592+/-1.424 $\chi^2$/NDF: 715.3/18

Left In: -61.998+/-2.303 $\chi^2$/NDF:21.0/2

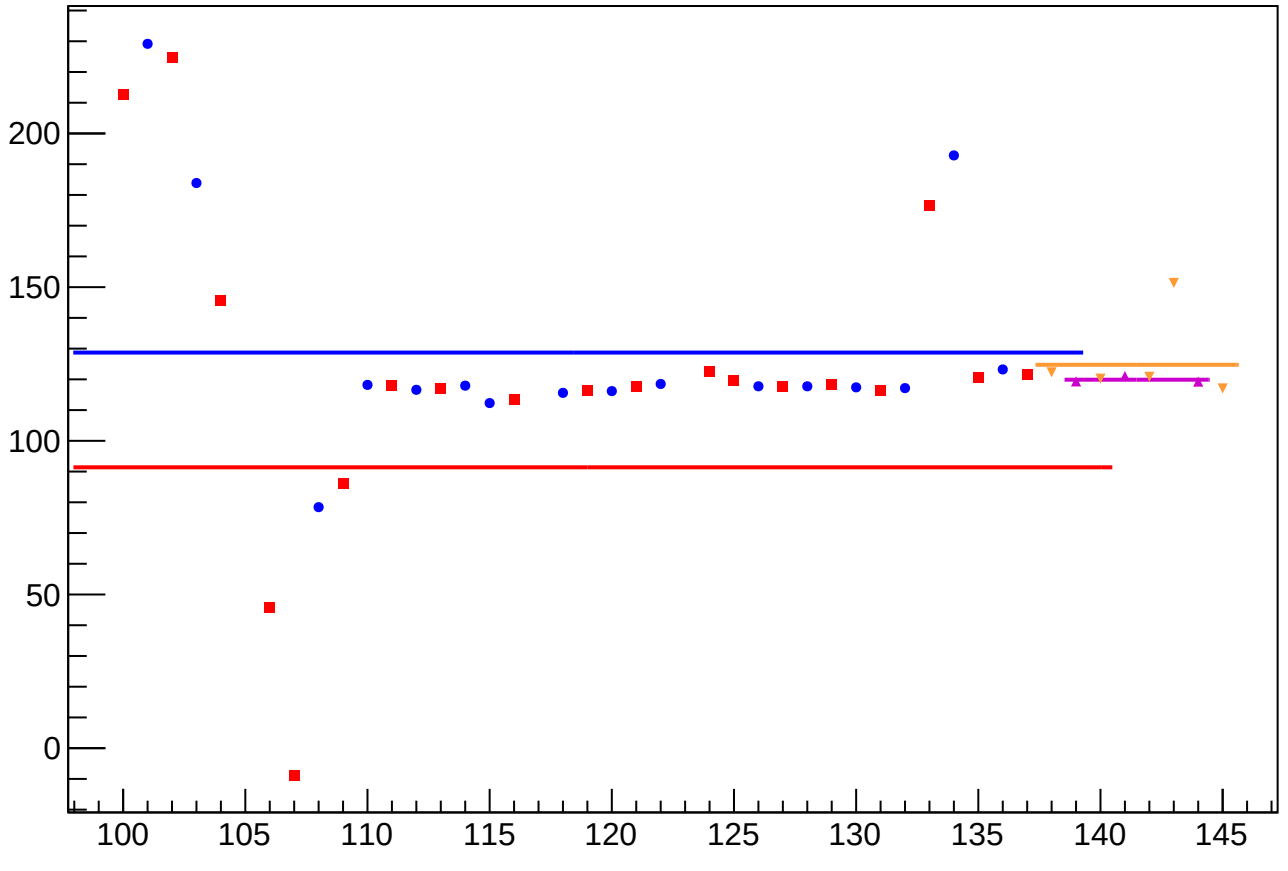
Left: -69.417+/-1.437 $\chi^2$/NDF: 76.0/7

Right: -86.499+/-1.044 $\chi^2$/NDF: 1107.8/34

In: -83.718+/-1.277 $\chi^2$/NDF:504.7/18

Out: -78.171+/-1.126 $\chi^2$/NDF:761.1/23

All: -80.597+/-0.844 $\chi^2$/NDF: 1276.4/42




Right In: 128.715+/-0.089 $\chi^2$/NDF: 183522.8/15

Left Out: 124.740+/-0.083 $\chi^2$/NDF:19322.4/4

Right Out: 91.385+/-0.079 $\chi^2$/NDF: 604912.4/18

Left In: 119.884+/-0.097 $\chi^2$/NDF:73.6/2

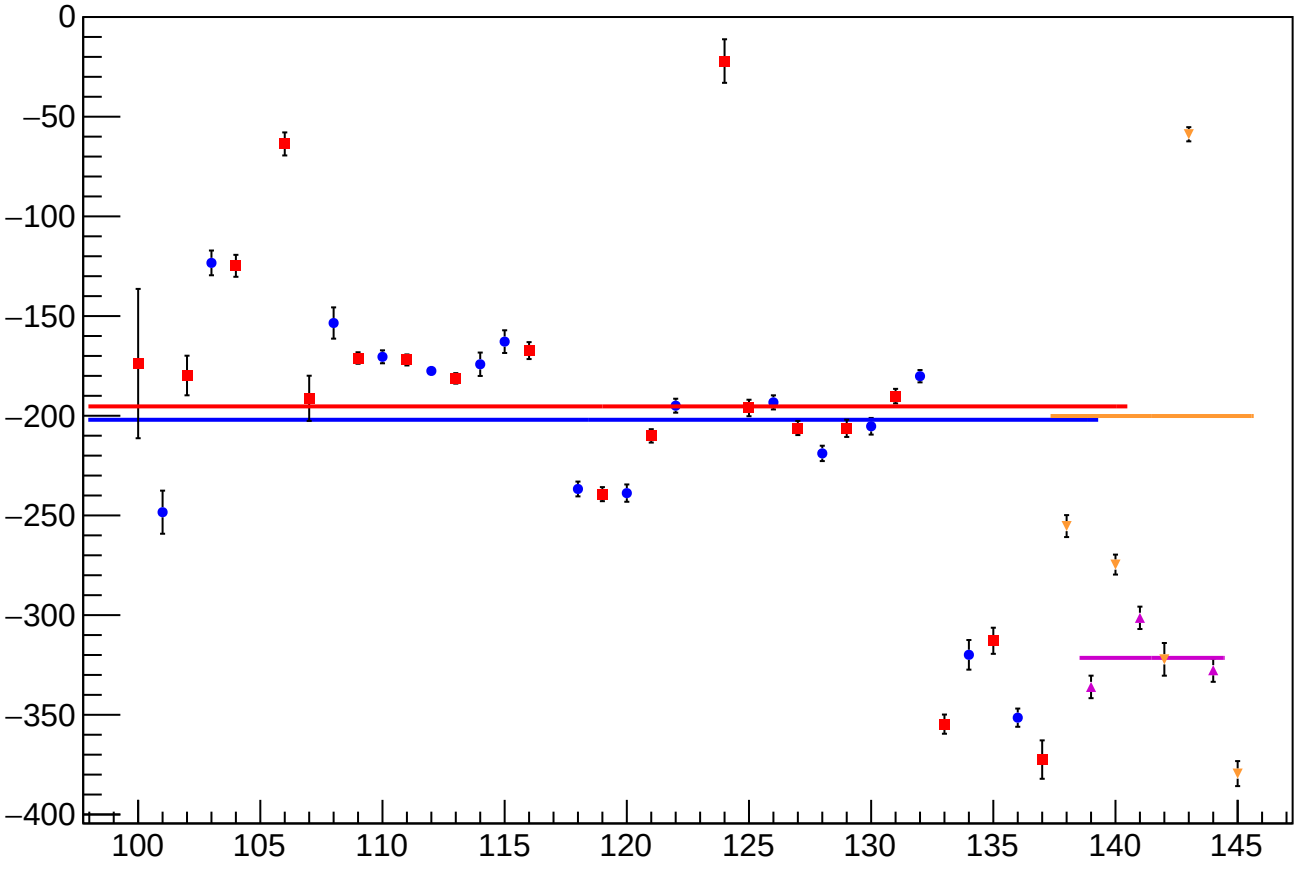
Left: 122.693+/-0.063 $\chi^2$/NDF: 20840.3/7

Right: 107.821+/-0.059 $\chi^2$/NDF: 886599.9/34

In: 124.681+/-0.066 $\chi^2$/NDF:188081.0/18

Out: 107.263+/-0.057 $\chi^2$/NDF:708965.3/23

All: 114.778+/-0.043 $\chi^2$/NDF: 937013.4/42




Right In: -202.020+/-1.024 $\chi^2$/NDF: 2040.4/15

Left Out: -200.134+/-2.282 $\chi^2$/NDF:2937.8/4

Right Out: -195.311+/-0.974 $\chi^2$/NDF: 3100.7/18

Left In: -321.447+/-3.287 $\chi^2$/NDF:20.6/2

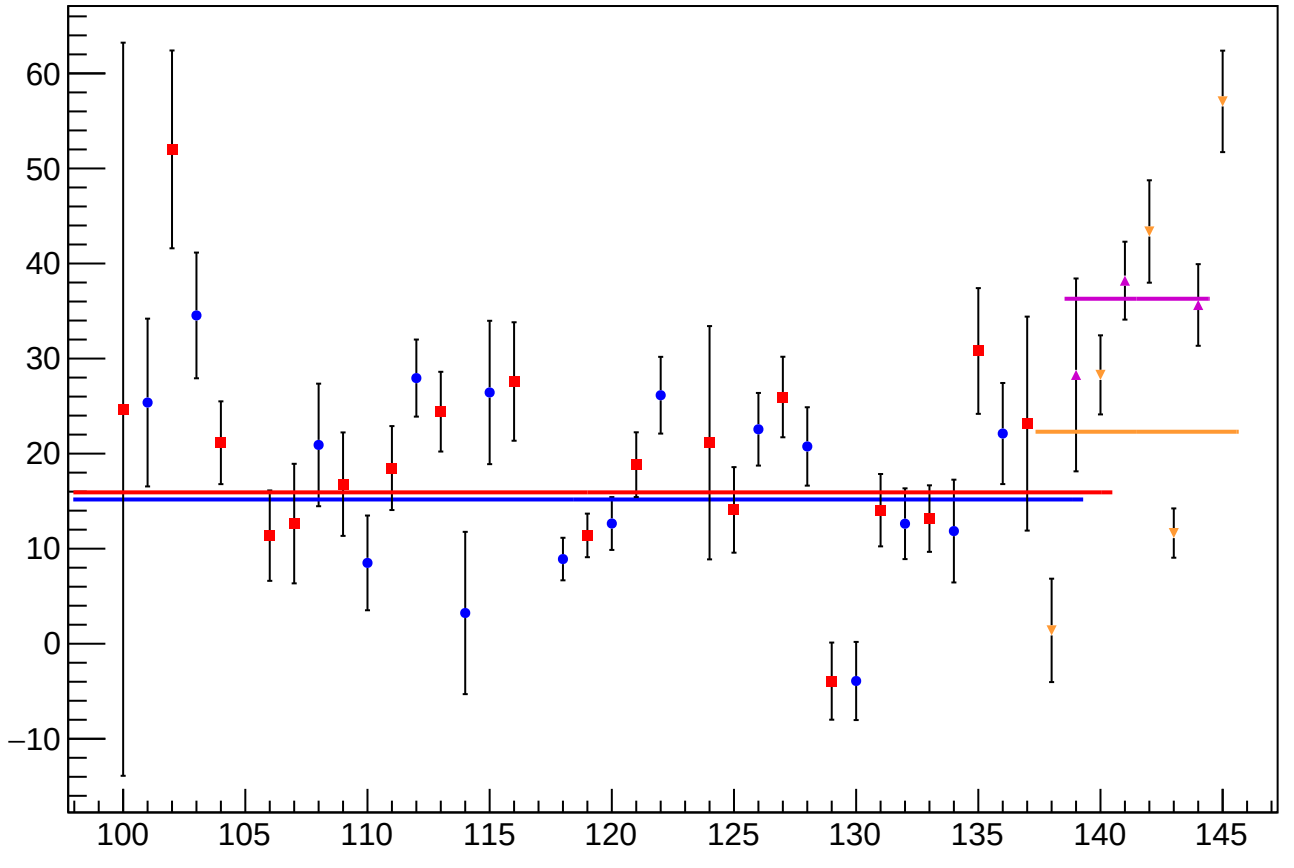
Left: -239.581+/-1.874 $\chi^2$/NDF: 3877.7/7

Right: -198.498+/-0.706 $\chi^2$/NDF: 5163.6/34

In: -212.587+/-0.978 $\chi^2$/NDF:3264.4/18

Out: -196.054+/-0.896 $\chi^2$/NDF:6042.2/23

All: -203.600+/-0.661 $\chi^2$/NDF: 9462.1/42




Right In: 15.175+/-1.048 $\chi^2$/NDF: 72.3/15

Left Out: 22.303+/-1.797 $\chi^2$/NDF:91.4/4

Right Out: 15.925+/-1.037 $\chi^2$/NDF: 63.5/18

Left In: 36.293+/-2.846 $\chi^2$/NDF:0.9/2

Left: 26.290+/-1.519 $\chi^2$/NDF: 109.6/7

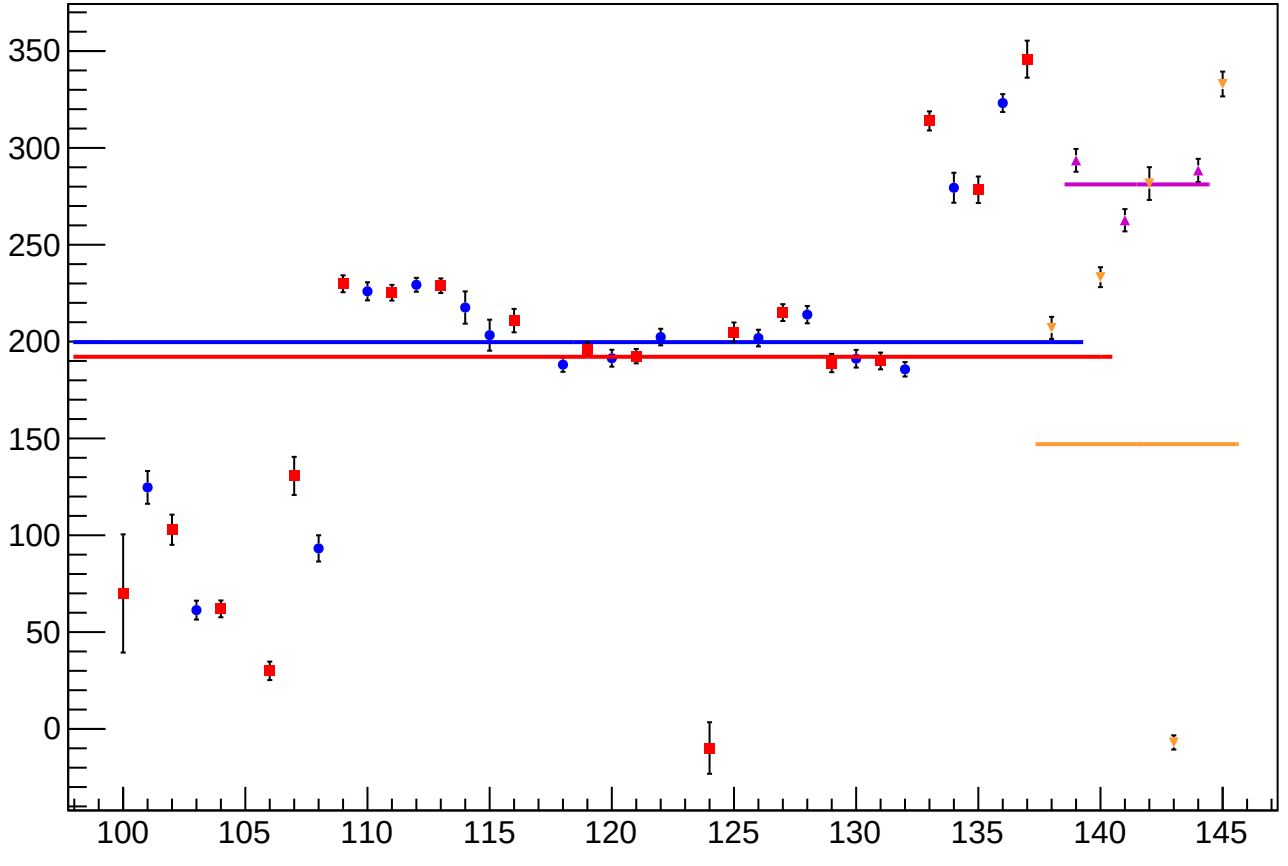
Right: 15.554+/-0.737 $\chi^2$/NDF: 136.1/34

In: 17.696+/-0.983 $\chi^2$/NDF:121.7/18

Out: 17.518+/-0.898 $\chi^2$/NDF:164.4/23

All: 17.599+/-0.663 $\chi^2$/NDF: 286.1/42

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 199.722+/-1.196 $\chi^2$/NDF: 2101.6/15

Left Out: 147.045+/-2.350 $\chi^2$/NDF:3258.8/4

Right Out: 192.156+/-1.150 $\chi^2$/NDF: 3777.1/18

Left In: 281.151+/-3.394 $\chi^2$/NDF:16.2/2

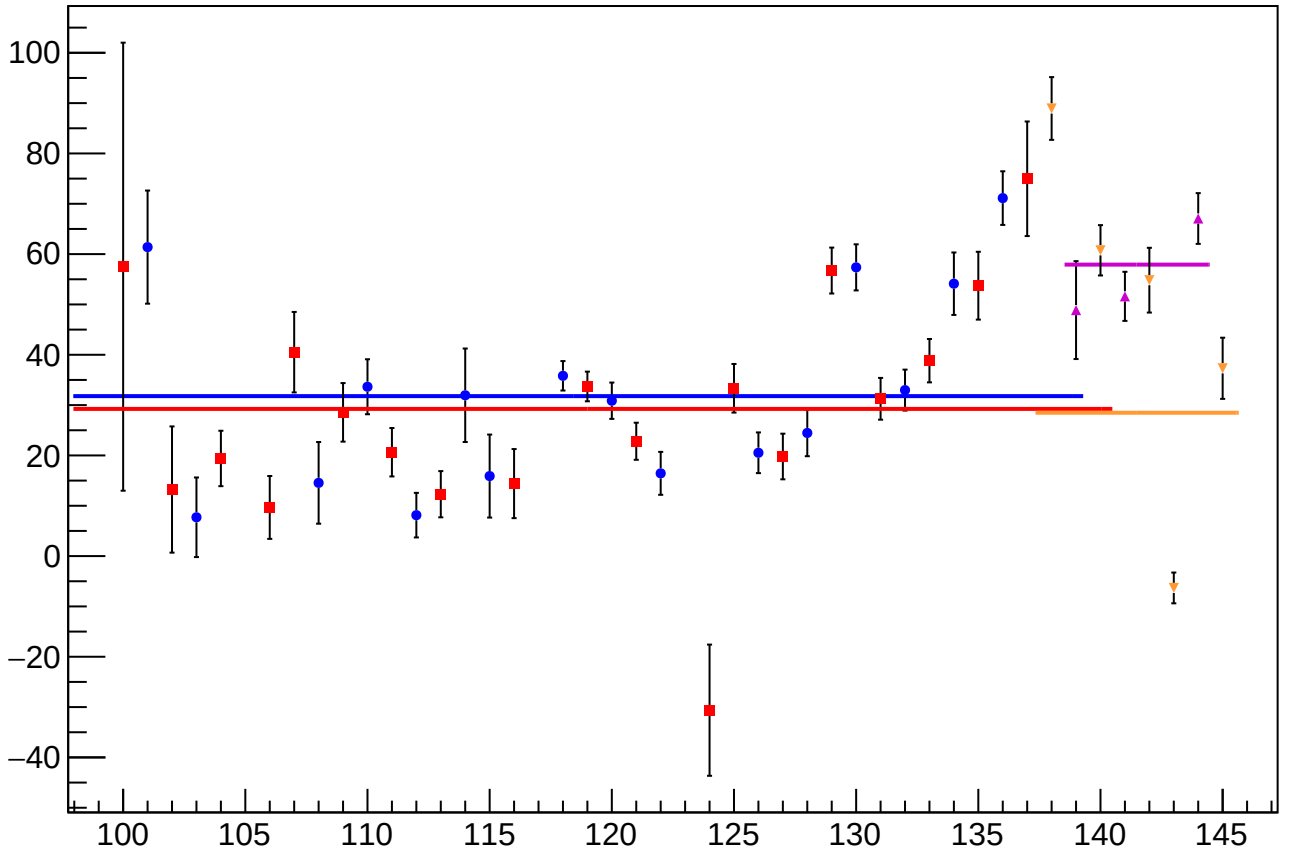
Left: 190.495+/-1.932 $\chi^2$/NDF: 4330.3/7

Right: 195.793+/-0.829 $\chi^2$/NDF: 5899.5/34

In: 208.712+/-1.128 $\chi^2$/NDF:2629.8/18

Out: 183.434+/-1.033 $\chi^2$/NDF:7333.2/23

All: 194.969+/-0.762 $\chi^2$/NDF: 10236.2/42




Right In: 31.782+/-1.217 $\chi^2$/NDF: 177.0/15

Left Out: 28.484+/-2.114 $\chi^2$/NDF:284.1/4

Right Out: 29.245+/-1.197 $\chi^2$/NDF: 140.9/18

Left In: 57.914+/-3.298 $\chi^2$/NDF:5.8/2

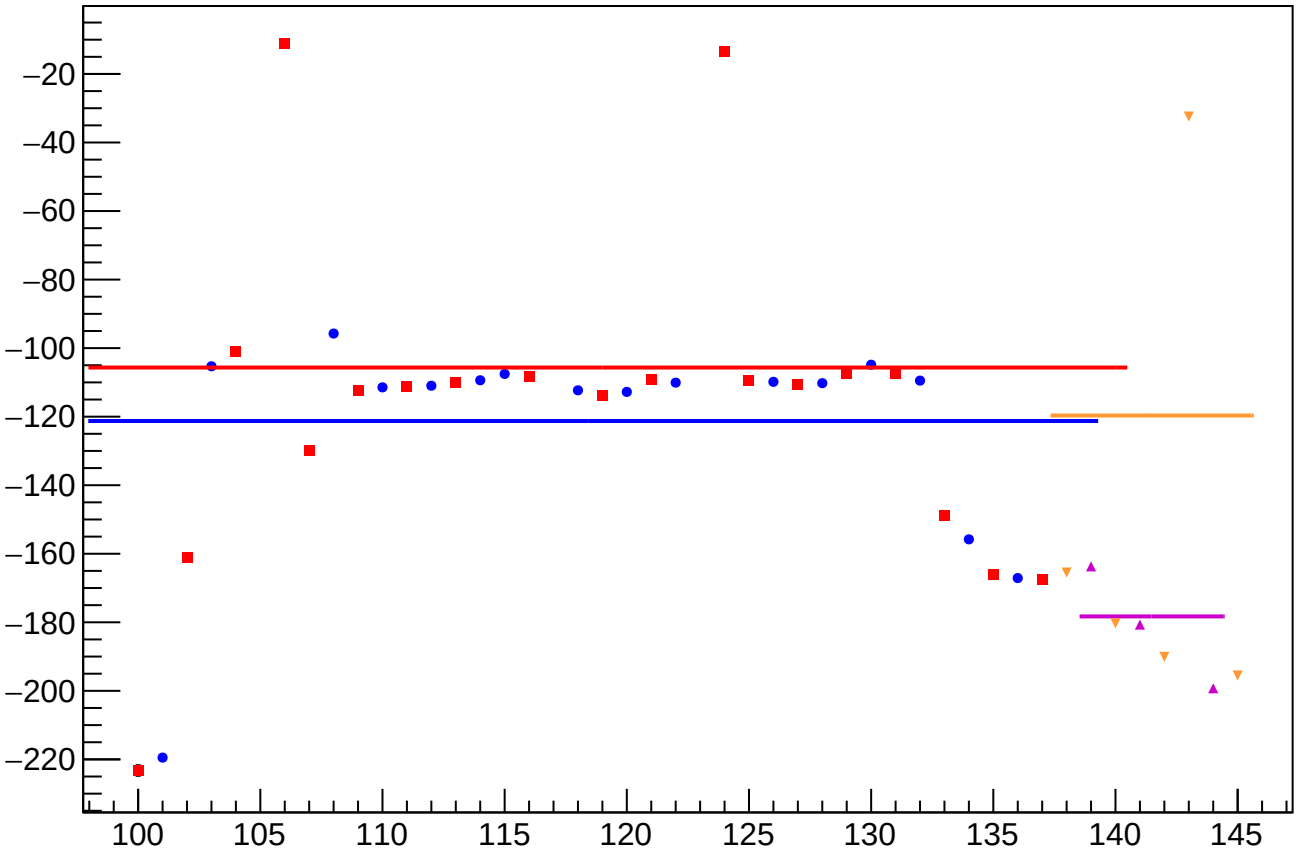
Left: 37.054+/-1.779 $\chi^2$/NDF: 346.4/7

Right: 30.492+/-0.853 $\chi^2$/NDF: 320.1/34

In: 34.913+/-1.141 $\chi^2$/NDF:238.1/18

Out: 29.060+/-1.041 $\chi^2$/NDF:425.1/23

All: 31.719+/-0.769 $\chi^2$/NDF: 677.5/42




Right In: -121.268+/-0.079 $\chi^2$/NDF: 119398.5/15

Left Out: -119.659+/-0.098 $\chi^2$/NDF:569513.0/4

Right Out: -105.660+/-0.075 $\chi^2$/NDF: 355093.7/18

Left In: -178.283+/-0.135 $\chi^2$/NDF:11029.6/2

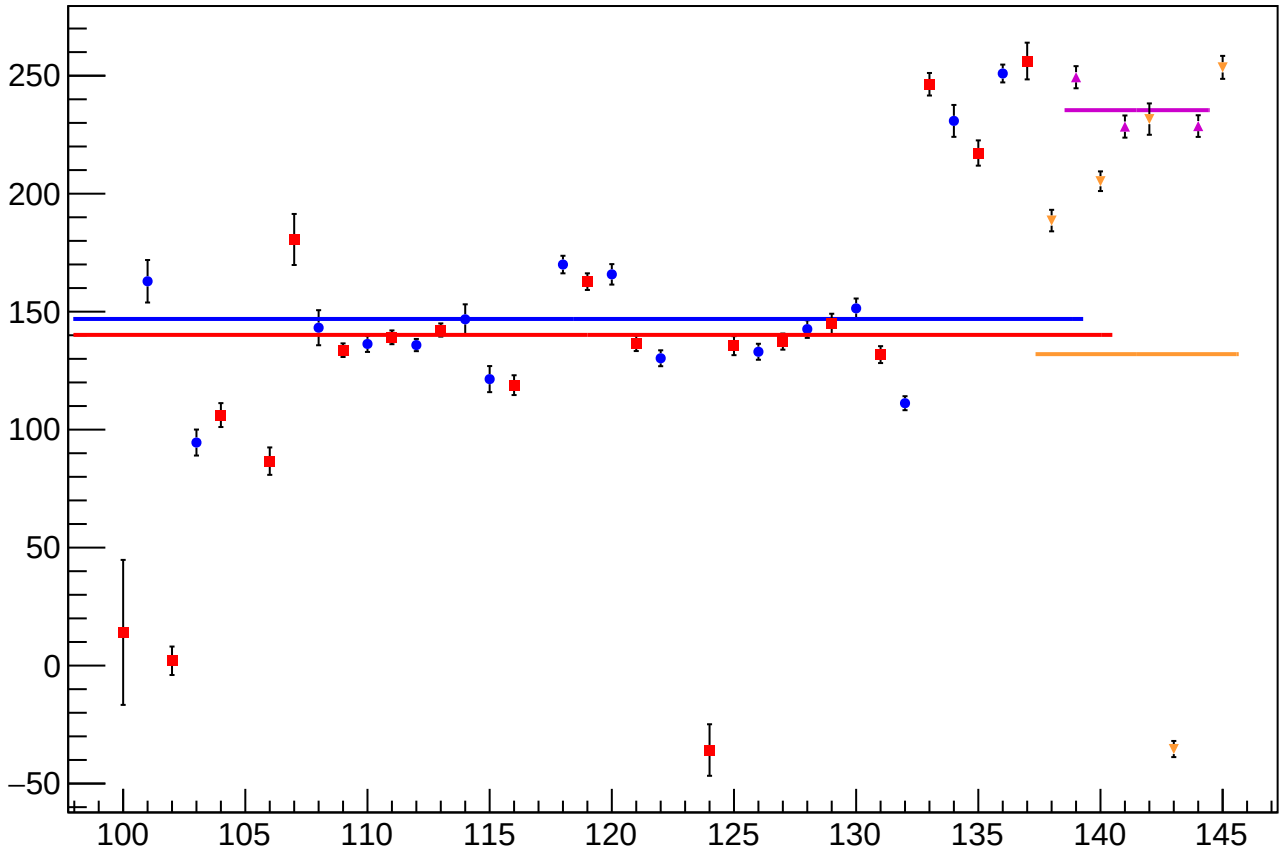
Left: -139.704+/-0.079 $\chi^2$/NDF: 703850.8/7

Right: -113.006+/-0.054 $\chi^2$/NDF: 495037.6/34

In: -135.804+/-0.068 $\chi^2$/NDF:262476.0/18

Out: -110.831+/-0.059 $\chi^2$/NDF:937576.3/23

All: -121.555+/-0.045 $\chi^2$/NDF: 1276149.4/42




Right In: 146.905+/-1.003 $\chi^2$/NDF: 1302.0/15

Left Out: 131.994+/-1.976 $\chi^2$/NDF:3706.8/4

Right Out: 140.153+/-0.960 $\chi^2$/NDF: 1950.6/18

Left In: 235.398+/-2.689 $\chi^2$/NDF:13.2/2

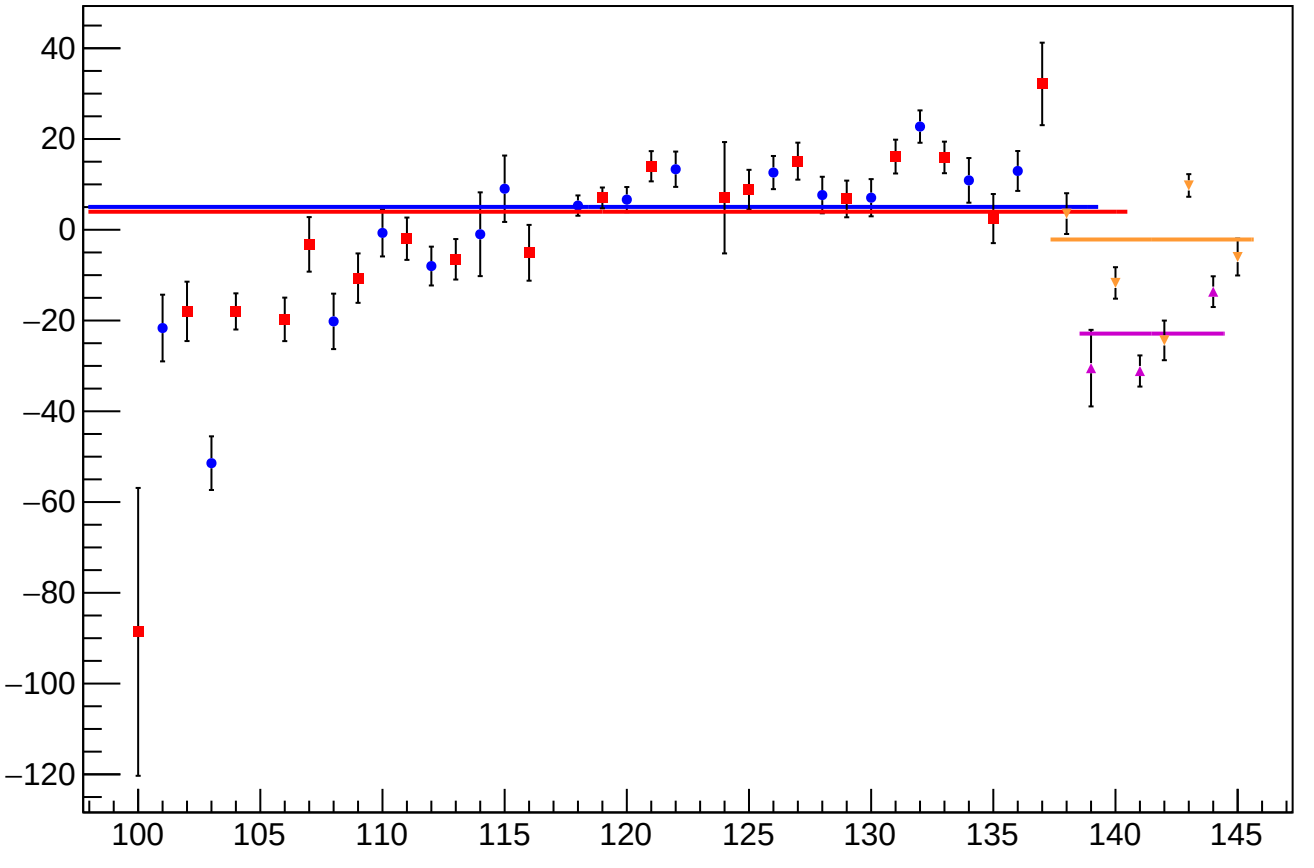
Left: 168.257+/-1.593 $\chi^2$/NDF: 4680.0/7

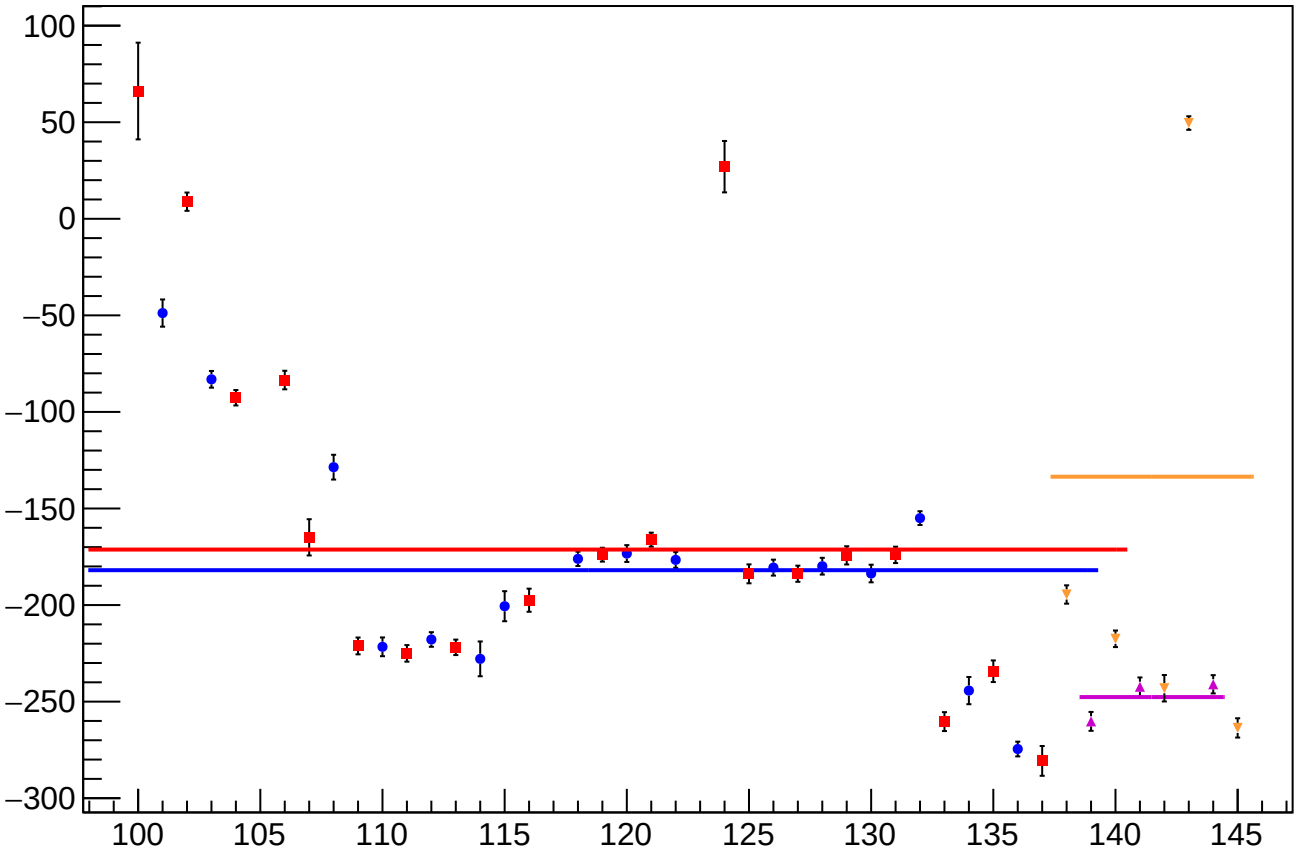
Right: 143.381+/-0.694 $\chi^2$/NDF: 3276.2/34

In: 157.718+/-0.940 $\chi^2$/NDF:2265.8/18

Out: 138.595+/-0.864 $\chi^2$/NDF:5671.1/23

All: 147.347+/-0.636 $\chi^2$/NDF: 8161.3/42


reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
−80
−100
−120
100
105
110
115
120
125
130
135
140
145
Right In: 5.037+/-1.021 χ²/NDF: 171.9/15
Left Out: -2.143+/-1.568 χ²/NDF:58.8/4
Right Out: 3.974+/-1.012 χ²/NDF: 144.9/18
Left In: -22.884+/-2.319 χ²/NDF:14.0/2
Left: -8.653+/-1.299 χ²/NDF: 127.8/7
Right: 4.501+/-0.719 χ²/NDF: 317.3/34
In: 0.504+/-0.934 χ²/NDF:307.3/18
Out: 2.176+/-0.850 χ²/NDF:214.5/23
All: 1.419+/-0.629 χ²/NDF: 523.6/42




Right In: -181.947+/-1.154 $\chi^2$/NDF: 1870.4/15

Left Out: -133.542+/-2.038 $\chi^2$/NDF:4192.5/4

Right Out: -171.262+/-1.111 $\chi^2$/NDF: 3628.2/18

Left In: -247.640+/-2.777 $\chi^2$/NDF:9.8/2

Left: -173.469+/-1.643 $\chi^2$/NDF: 5299.7/7

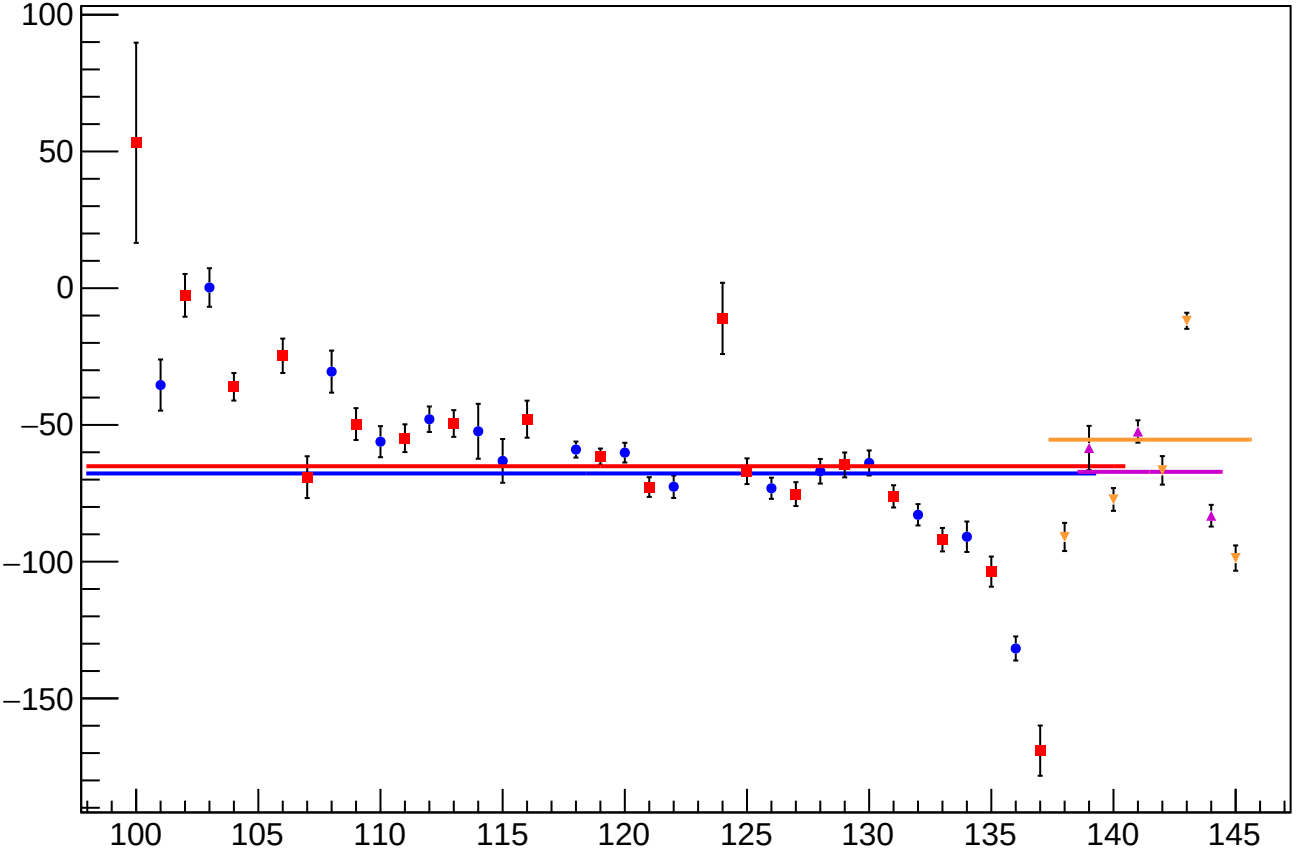
Right: -176.402+/-0.800 $\chi^2$/NDF: 5543.1/34

In: -191.620+/-1.066 $\chi^2$/NDF:2357.5/18

Out: -162.616+/-0.975 $\chi^2$/NDF:8084.8/23

All: -175.839+/-0.720 $\chi^2$/NDF: 10845.3/42

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -67.745+/-1.181 $\chi^2$/NDF: 414.0/15

Left Out: -55.395+/-1.843 $\chi^2$/NDF:385.9/4

Right Out: -65.105+/-1.167 $\chi^2$/NDF: 429.0/18

Left In: -67.154+/-2.686 $\chi^2$/NDF:30.5/2

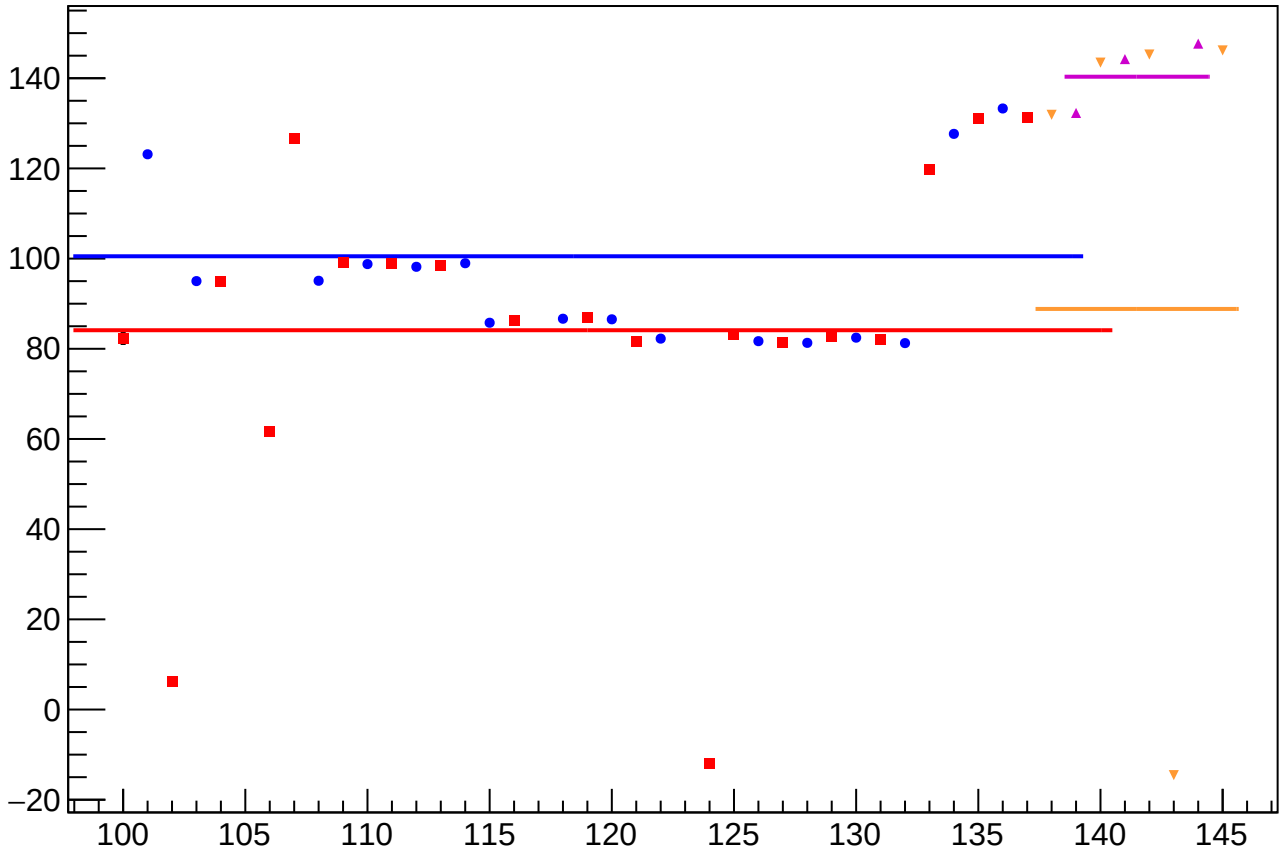
Left: -59.159+/-1.520 $\chi^2$/NDF: 429.4/7

Right: -66.409+/-0.830 $\chi^2$/NDF: 845.6/34

In: -67.650+/-1.081 $\chi^2$/NDF:444.6/18

Out: -62.327+/-0.986 $\chi^2$/NDF:834.8/23

All: -64.743+/-0.728 $\chi^2$/NDF: 1292.6/42




Right In: 100.517+/-0.074 $\chi^2$/NDF: 67464.8/15

Left Out: 88.838+/-0.085 $\chi^2$/NDF:758227.9/4

Right Out: 84.116+/-0.069 $\chi^2$/NDF: 263788.9/18

Left In: 140.336+/-0.111 $\chi^2$/NDF:3721.0/2

Left: 107.712+/-0.067 $\chi^2$/NDF: 897922.5/7

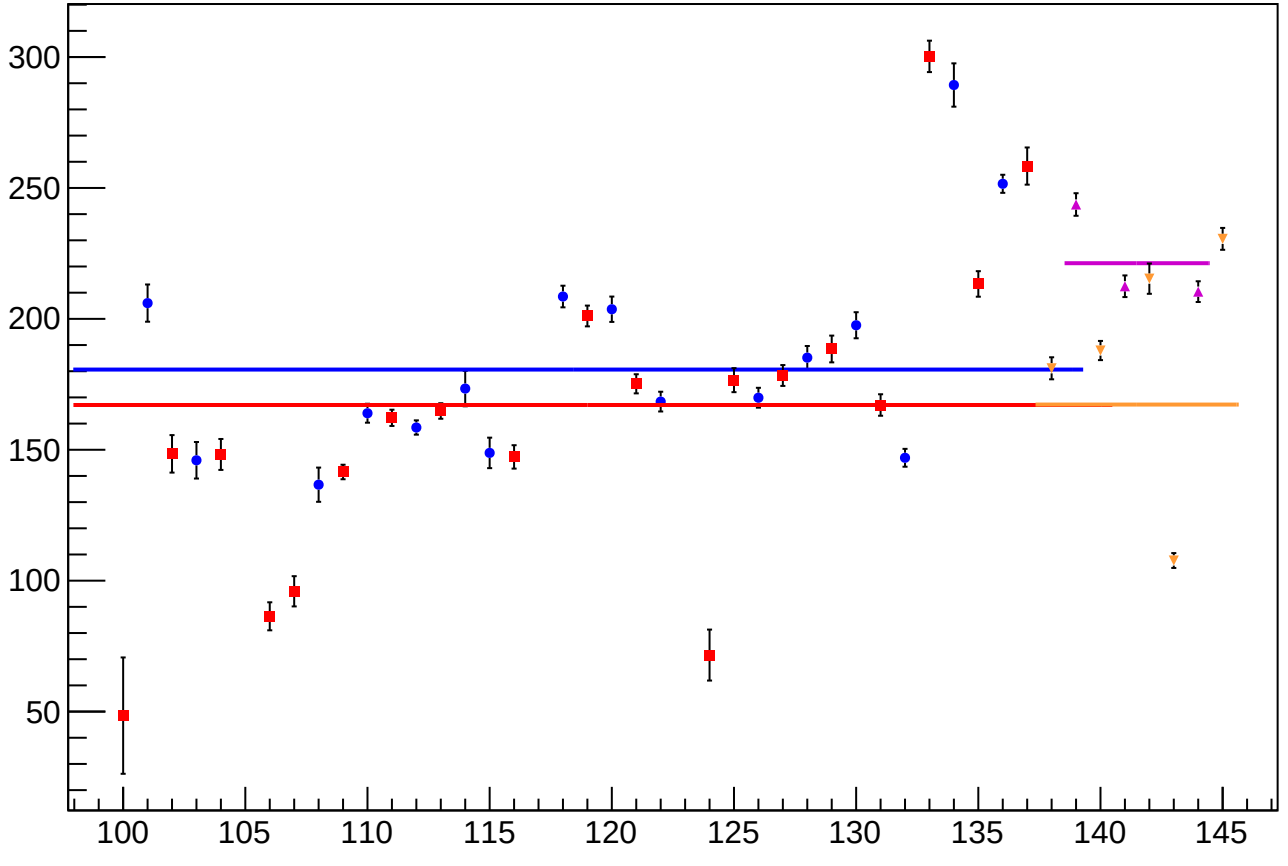
Right: 91.772+/-0.051 $\chi^2$/NDF: 357470.2/34

In: 112.737+/-0.062 $\chi^2$/NDF:160131.0/18

Out: 86.011+/-0.054 $\chi^2$/NDF:1023884.9/23

All: 97.520+/-0.040 $\chi^2$/NDF: 1291270.6/42

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: 167.266+/-1.710 $\chi^2$/NDF:780.2/4

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 221.260+/-2.383 $\chi^2$/NDF:39.1/2

Left: 185.620+/-1.390 $\chi^2$/NDF: 1158.1/7

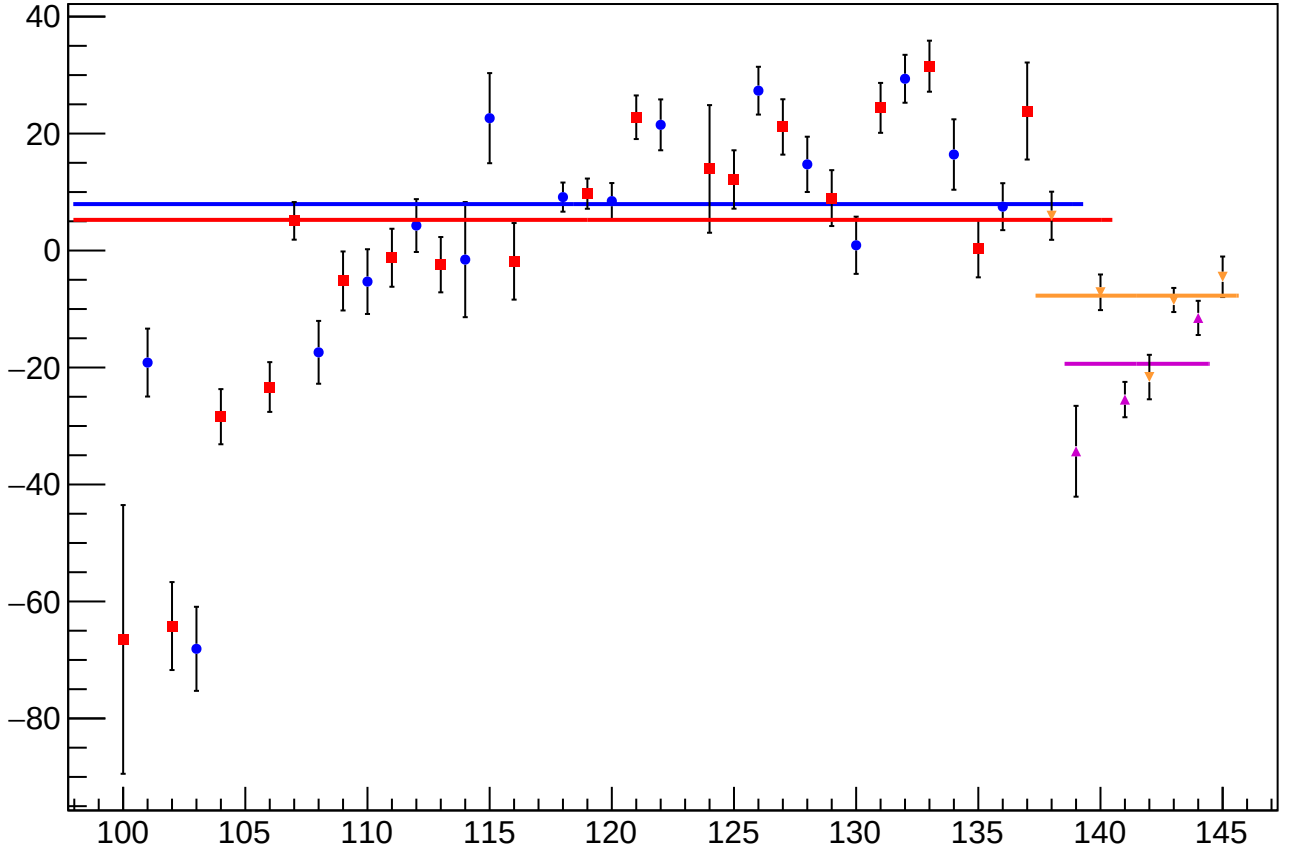
Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 187.658+/-0.991 $\chi^2$/NDF:1272.9/18

Out: 167.145+/-0.877 $\chi^2$/NDF:2264.7/23

All: 176.149+/-0.657 $\chi^2$/NDF: 3778.0/42

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 7.942+/-1.113 $\chi^2$/NDF: 232.9/15

Left Out: -7.712+/-1.342 $\chi^2$/NDF:25.5/4

Right Out: 5.244+/-1.062 $\chi^2$/NDF: 302.9/18

Left In: -19.365+/-2.028 $\chi^2$/NDF:15.0/2

Left: -11.262+/-1.119 $\chi^2$/NDF: 63.4/7

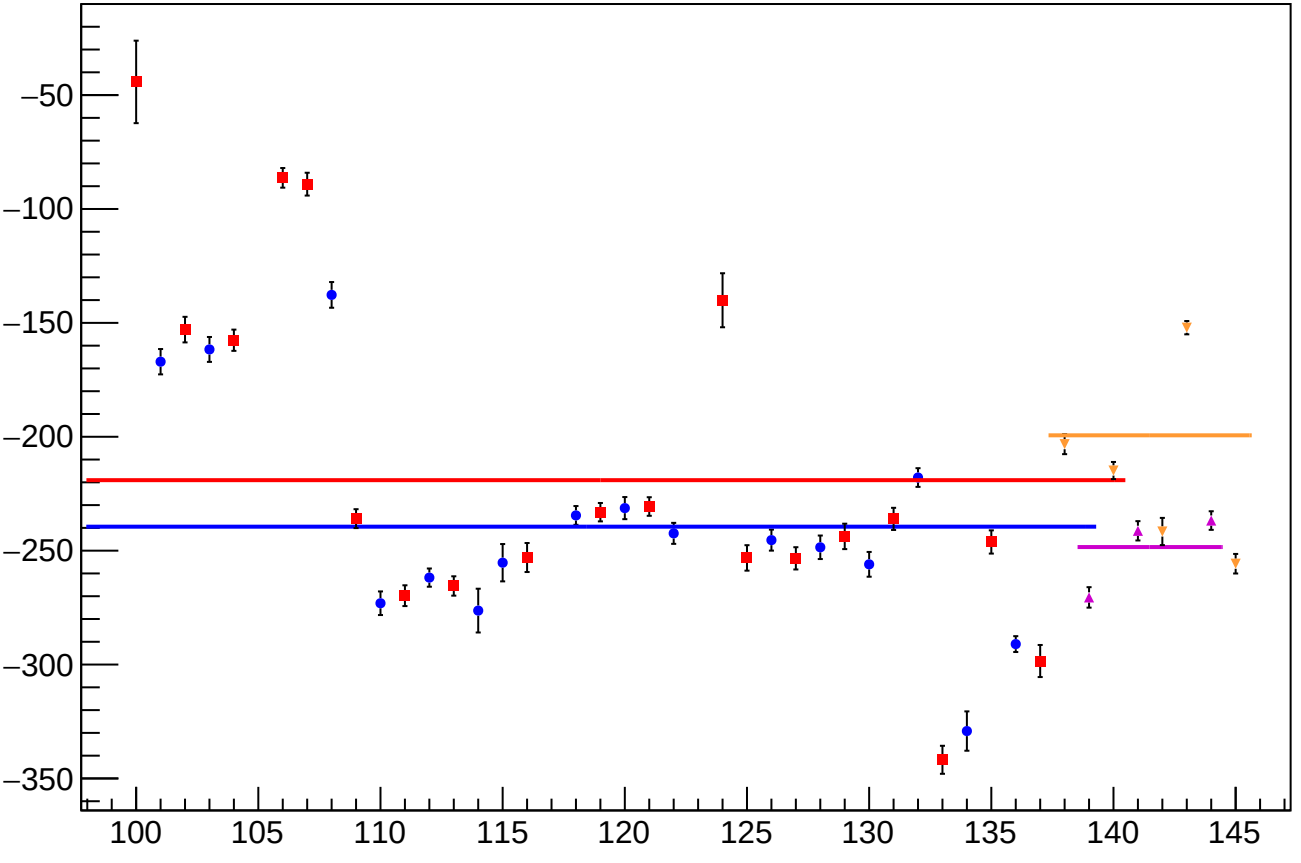
Right: 6.530+/-0.768 $\chi^2$/NDF: 538.9/34

In: 1.619+/-0.976 $\chi^2$/NDF:387.2/18

Out: 0.256+/-0.833 $\chi^2$/NDF:385.7/23

All: 0.831+/-0.634 $\chi^2$/NDF: 774.1/42

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -199.365+/-1.763 $\chi^2$/NDF:501.5/4

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -248.416+/-2.460 $\chi^2$/NDF:35.2/2

Left: -216.005+/-1.433 $\chi^2$/NDF: 799.3/7

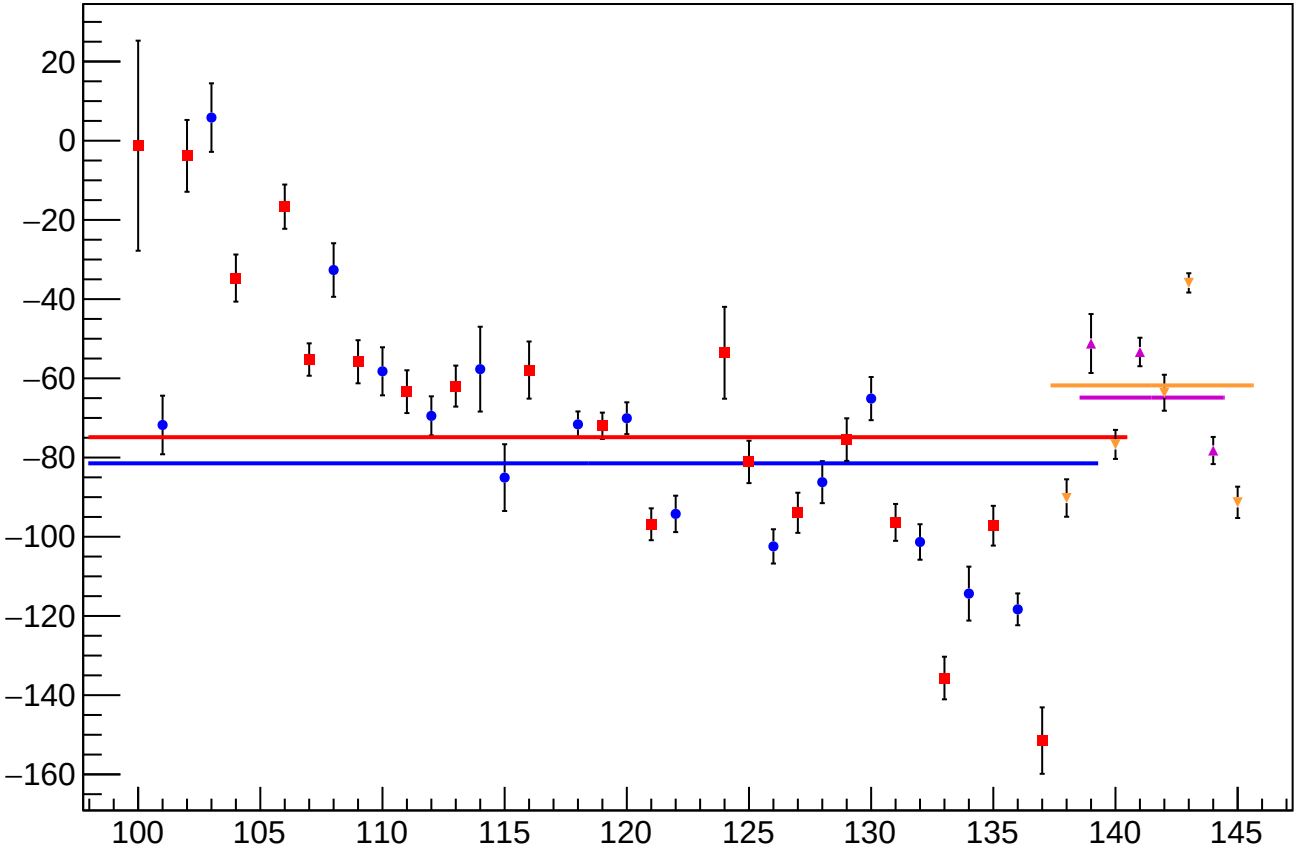
Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -241.293+/-1.111 $\chi^2$/NDF:1207.9/18

Out: -212.988+/-0.978 $\chi^2$/NDF:3637.0/23

All: -225.351+/-0.734 $\chi^2$/NDF: 5210.5/42

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: -61.784+/-1.581 $\chi^2$/NDF:221.5/4

Right Out: -74.861+/-1.230 $\chi^2$/NDF: 576.6/18

Left In: -64.863+/-2.354 $\chi^2$/NDF:28.8/2

Left: -62.741+/-1.312 $\chi^2$/NDF: 251.5/7

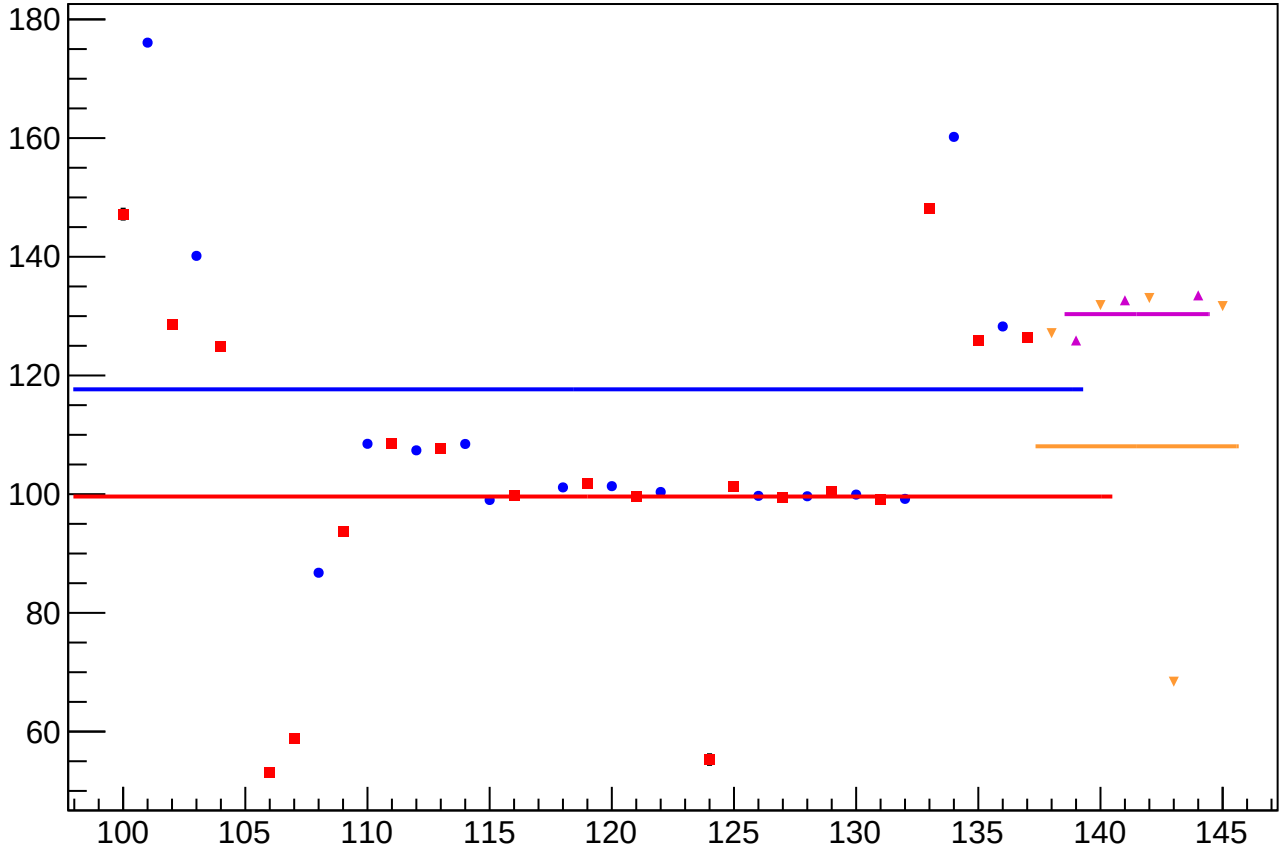
Right: -78.013+/-0.889 $\chi^2$/NDF: 956.9/34

In: -77.643+/-1.129 $\chi^2$/NDF:433.6/18

Out: -69.929+/-0.971 $\chi^2$/NDF:840.8/23

All: -73.208+/-0.736 $\chi^2$/NDF: 1301.2/42

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 108.067+/-0.073 $\chi^2$/NDF:167652.8/4

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 130.338+/-0.099 $\chi^2$/NDF:1245.3/2

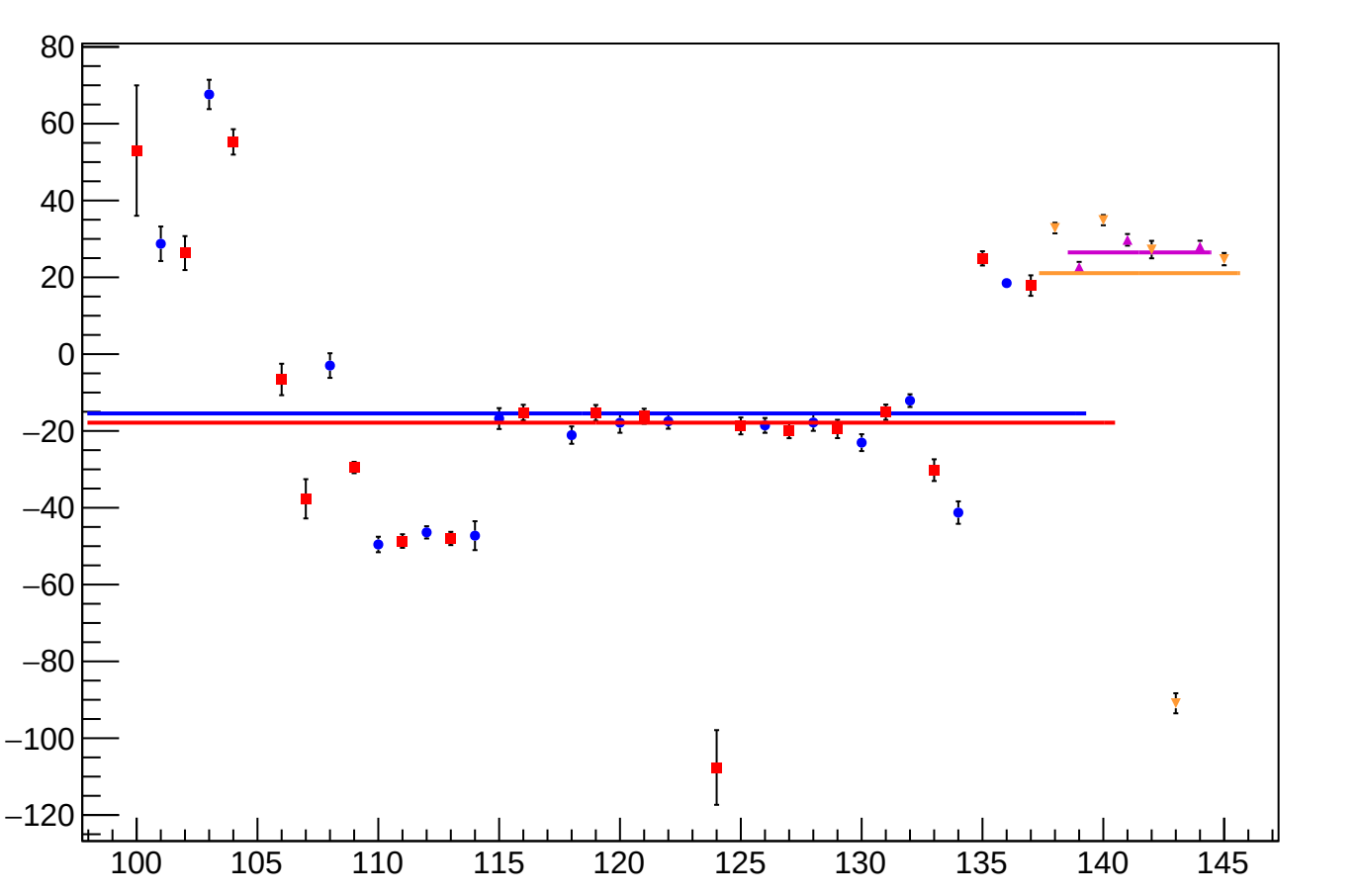
Left: 115.949+/-0.059 $\chi^2$/NDF: 201572.2/7

Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

In: 122.537+/-0.061 $\chi^2$/NDF:106721.9/18

Out: 103.659+/-0.051 $\chi^2$/NDF:340830.6/23

All: 111.319+/-0.039 $\chi^2$/NDF: 503726.6/42




Right In: -15.438+/-0.539 $\chi^2$/NDF: 2124.2/15

Left Out: 21.085+/-0.744 $\chi^2$/NDF:2028.3/4

Right Out: -17.848+/-0.530 $\chi^2$/NDF: 2125.2/18

Left In: 26.482+/-0.843 $\chi^2$/NDF:13.6/2

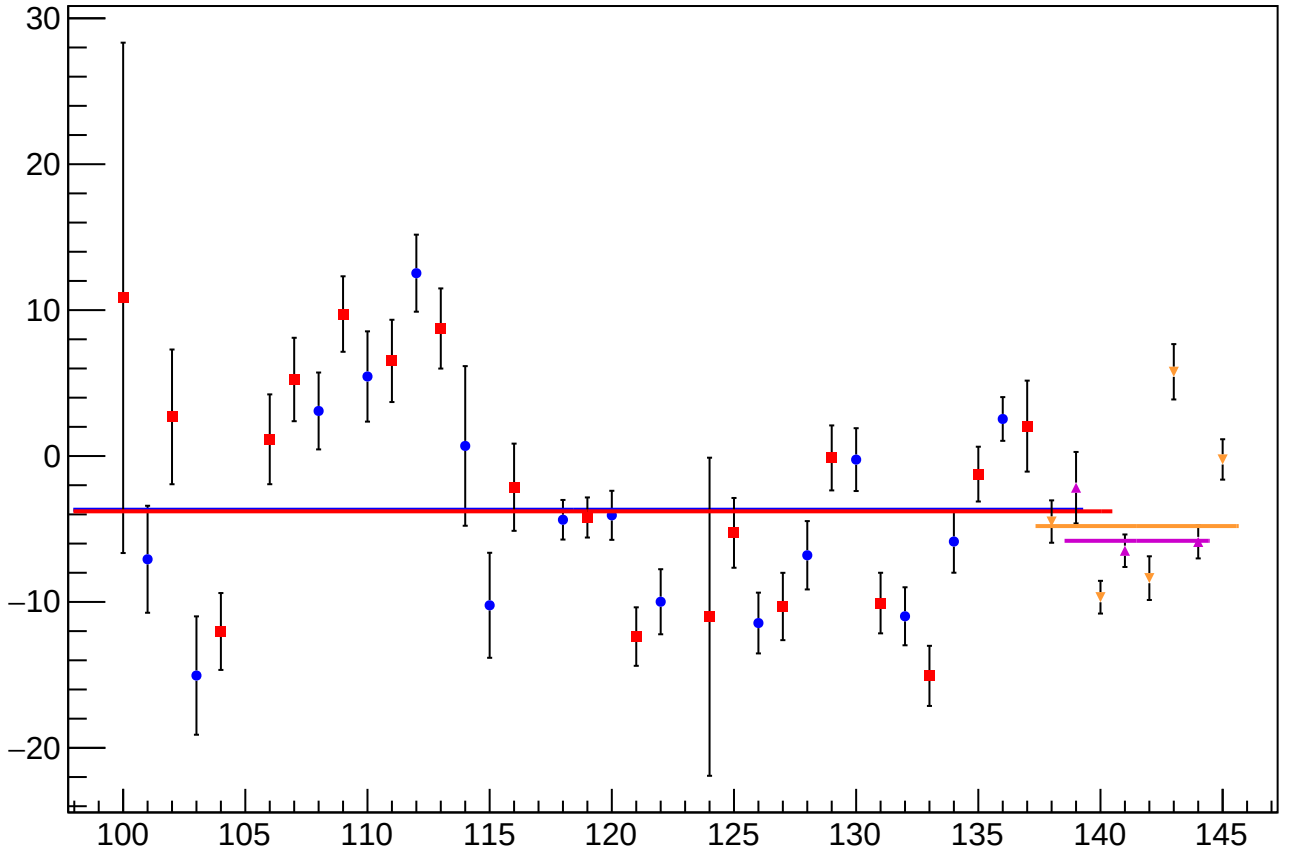
Left: 23.448+/-0.558 $\chi^2$/NDF: 2064.9/7

Right: -16.664+/-0.378 $\chi^2$/NDF: 4259.6/34

In: -3.275+/-0.454 $\chi^2$/NDF:3892.5/18

Out: -4.756+/-0.431 $\chi^2$/NDF:5970.5/23

All: -4.054+/-0.313 $\chi^2$/NDF: 9868.6/42




Right In: -3.679+/-0.552 $\chi^2$/NDF: 124.0/15

Left Out: -4.801+/-0.630 $\chi^2$/NDF:66.6/4

Right Out: -3.790+/-0.564 $\chi^2$/NDF: 161.2/18

Left In: -5.810+/-0.755 $\chi^2$/NDF:2.6/2

Left: -5.216+/-0.484 $\chi^2$/NDF: 70.2/7

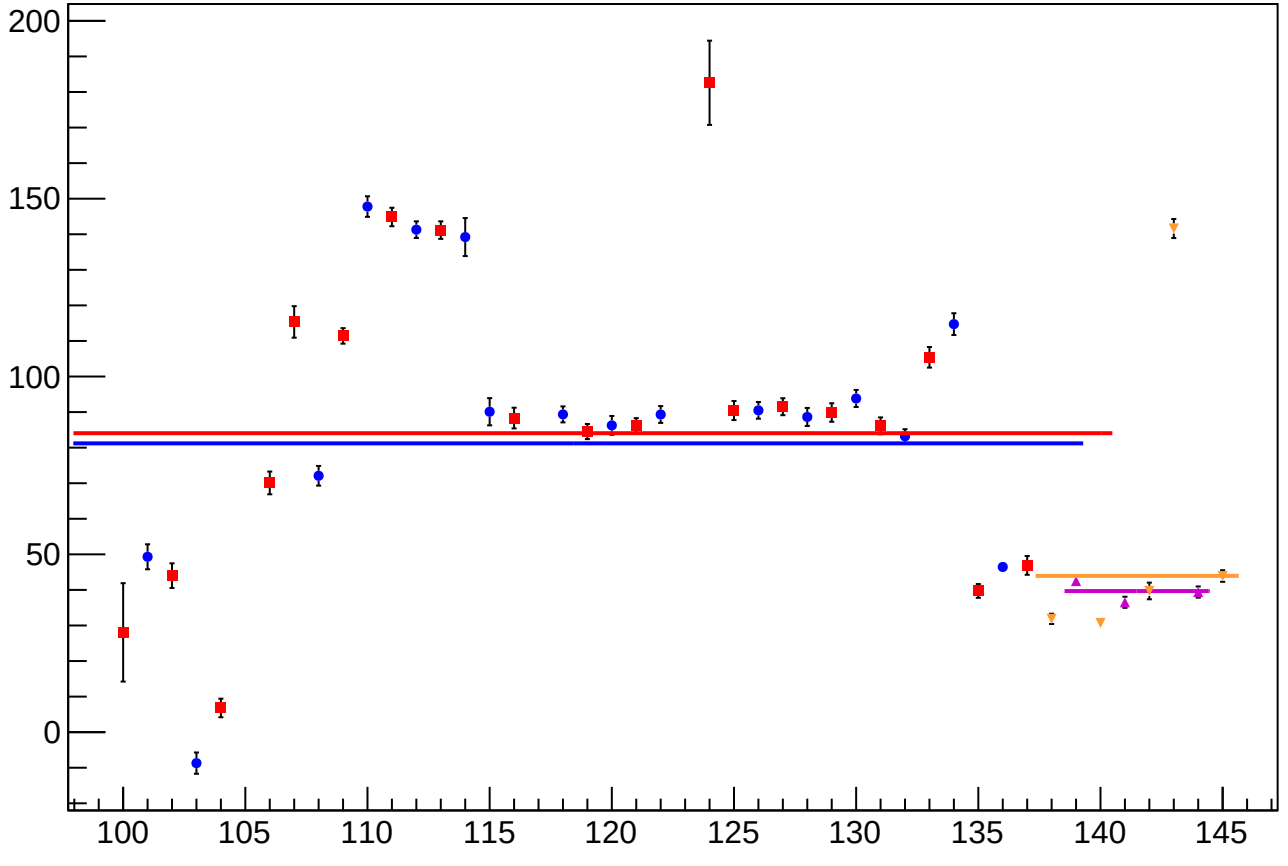
Right: -3.734+/-0.394 $\chi^2$/NDF: 285.2/34

In: -4.422+/-0.446 $\chi^2$/NDF:131.8/18

Out: -4.239+/-0.420 $\chi^2$/NDF:229.2/23

All: -4.325+/-0.306 $\chi^2$/NDF: 361.1/42

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: 43.951+/-0.767 $\chi^2$/NDF:1486.8/4

Right Out: 84.065+/-0.616 $\chi^2$/NDF: 3206.5/18

Left In: 39.677+/-0.871 $\chi^2$/NDF:8.1/2

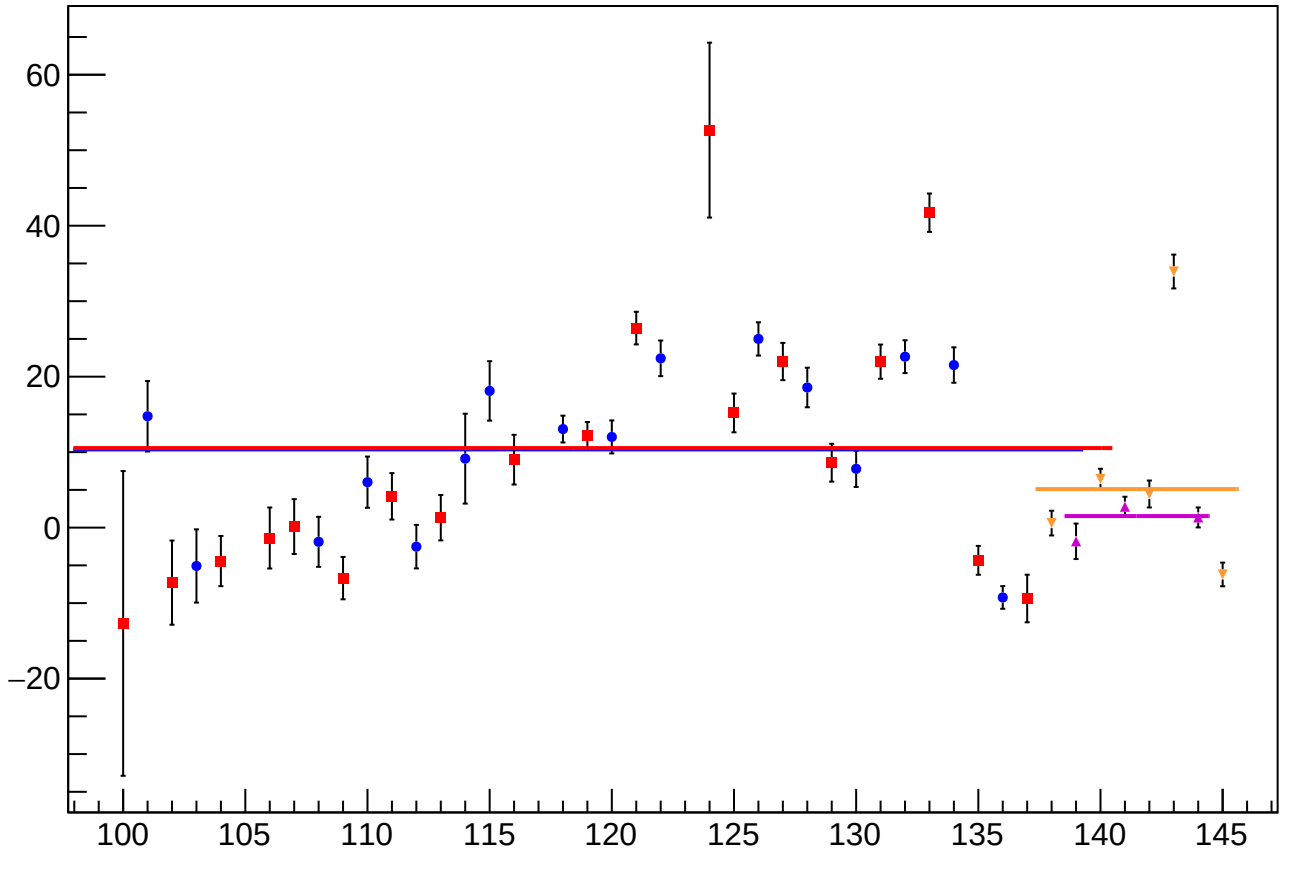
Left: 42.085+/-0.576 $\chi^2$/NDF: 1508.5/7

Right: 82.612+/-0.432 $\chi^2$/NDF: 6447.9/34

In: 67.630+/-0.498 $\chi^2$/NDF:4768.1/18

Out: 68.328+/-0.480 $\chi^2$/NDF:6355.4/23

All: 67.992+/-0.346 $\chi^2$/NDF: 11124.5/42




Right In: 10.367+/-0.627 $\chi^2$/NDF: 359.8/15

Left Out: 5.106+/-0.735 $\chi^2$/NDF:226.2/4

Right Out: 10.539+/-0.640 $\chi^2$/NDF: 470.7/18

Left In: 1.531+/-0.869 $\chi^2$/NDF:2.9/2

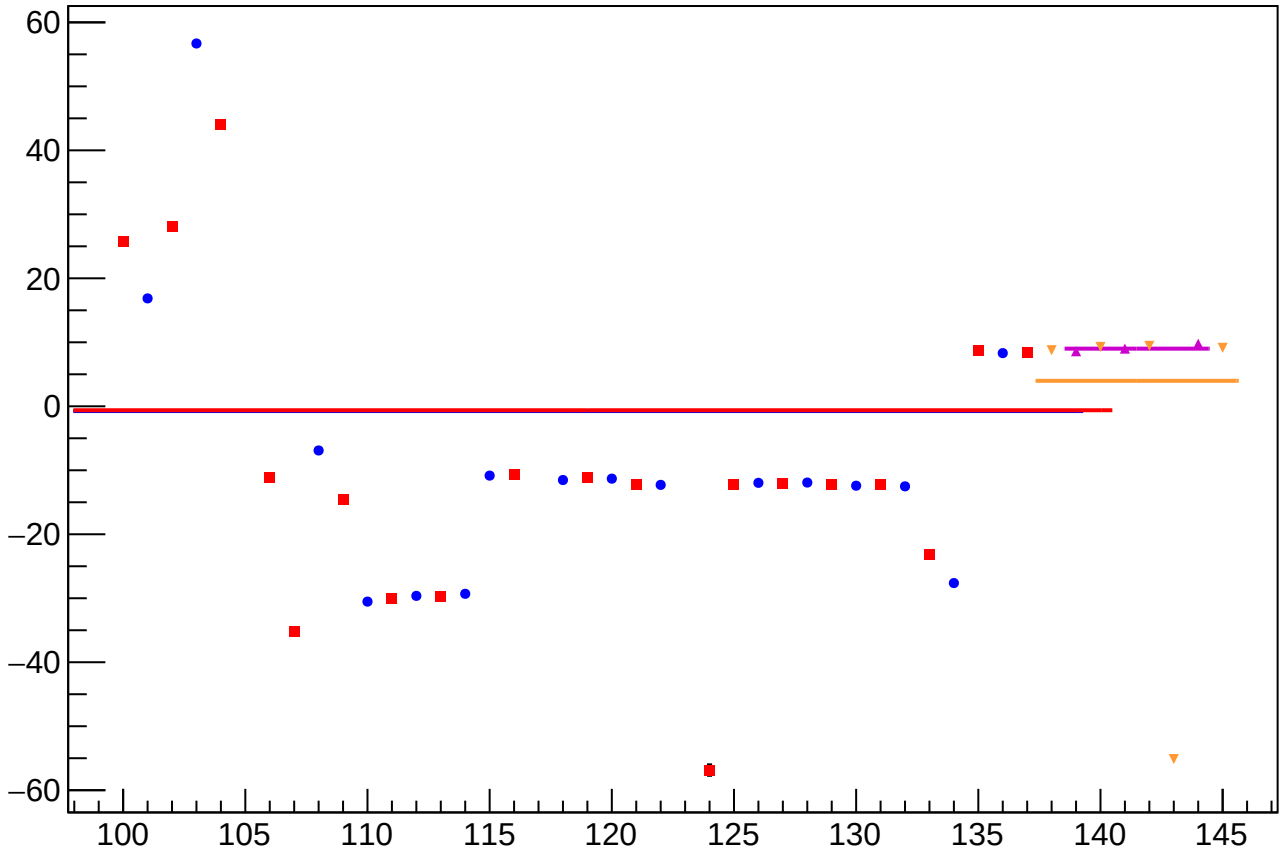
Left: 3.613+/-0.561 $\chi^2$/NDF: 238.9/7

Right: 10.451+/-0.448 $\chi^2$/NDF: 830.5/34

In: 7.343+/-0.508 $\chi^2$/NDF:430.8/18

Out: 8.197+/-0.483 $\chi^2$/NDF:727.9/23

All: 7.791+/-0.350 $\chi^2$/NDF: 1160.2/42




Right In: -0.745+/-0.036 $\chi^2$/NDF: 367993.9/15

Left Out: 3.980+/-0.032 $\chi^2$/NDF:304062.5/4

Right Out: -0.618+/-0.037 $\chi^2$/NDF: 316492.6/18

Left In: 9.007+/-0.034 $\chi^2$/NDF:184.6/2

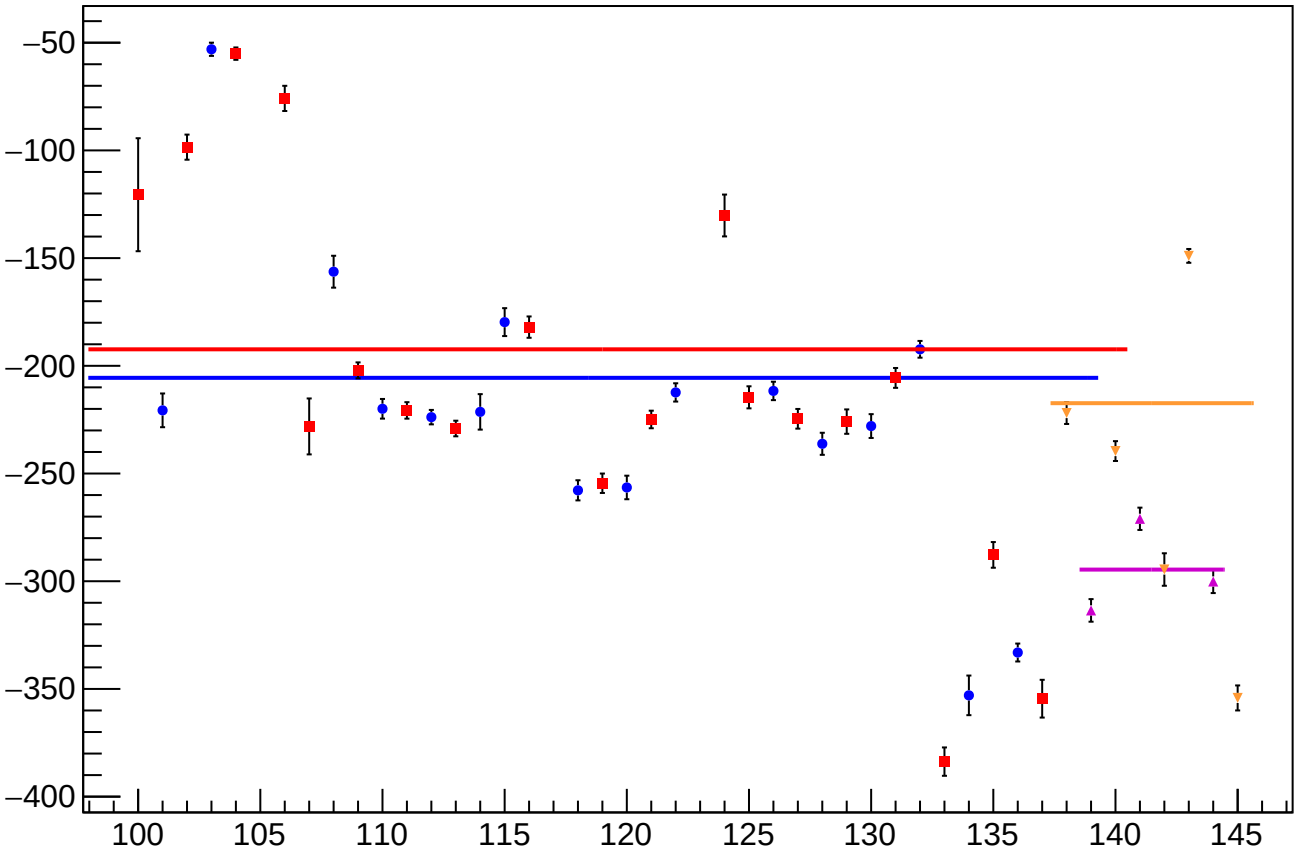
Left: 6.272+/-0.023 $\chi^2$/NDF: 315844.8/7

Right: -0.684+/-0.026 $\chi^2$/NDF: 684492.5/34

In: 4.331+/-0.025 $\chi^2$/NDF:406633.3/18

Out: 2.066+/-0.024 $\chi^2$/NDF:629410.9/23

All: 3.164+/-0.017 $\chi^2$/NDF: 1040329.0/42




Right In: -205.577+/-1.185 $\chi^2$/NDF: 4056.0/15

Left Out: -217.345+/-2.083 $\chi^2$/NDF:1138.6/4

Right Out: -192.345+/-1.123 $\chi^2$/NDF: 4969.8/18

Left In: -294.597+/-3.041 $\chi^2$/NDF:34.8/2

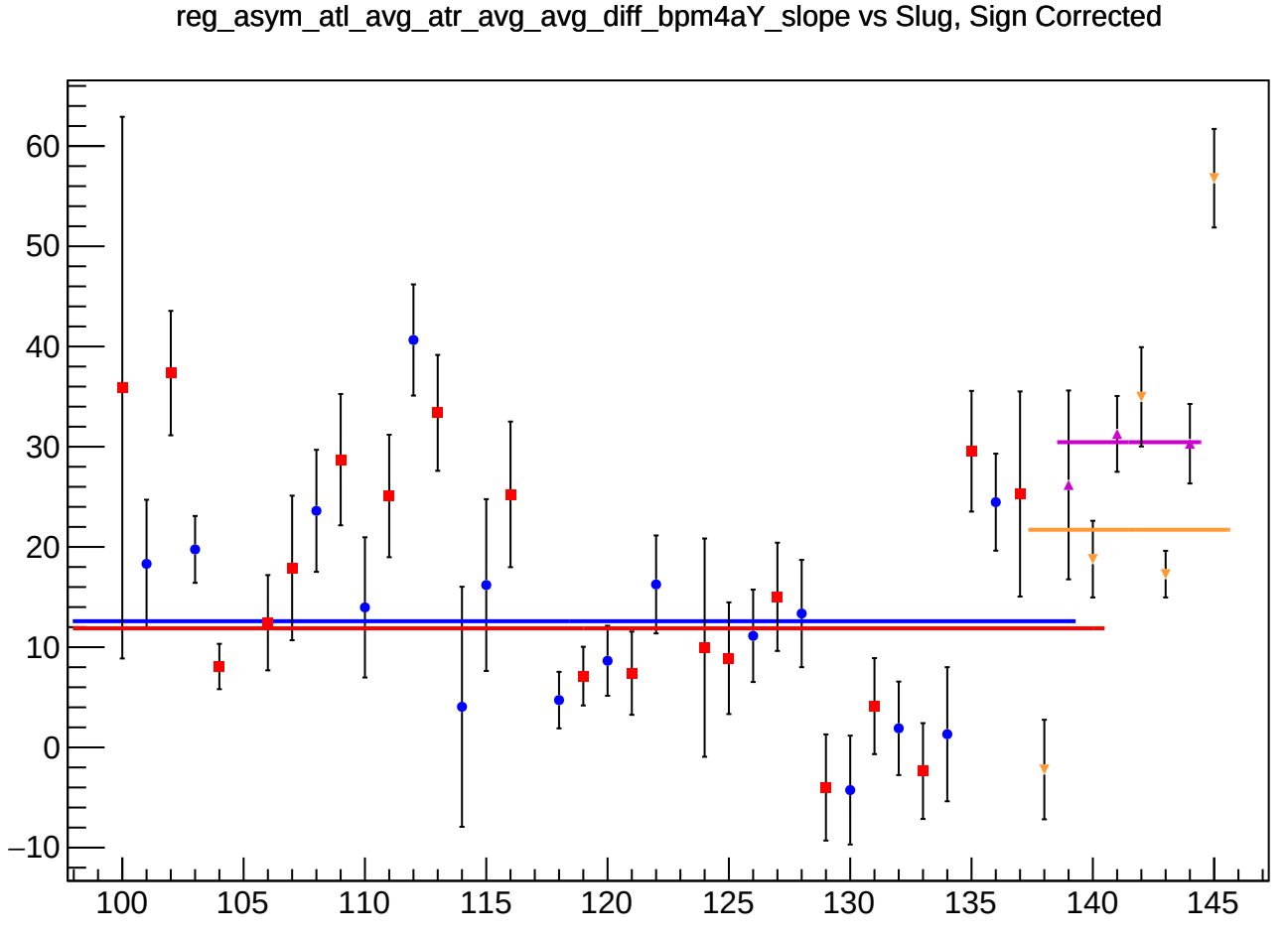
Left: -242.010+/-1.718 $\chi^2$/NDF: 1612.7/7

Right: -198.605+/-0.815 $\chi^2$/NDF: 9091.6/34

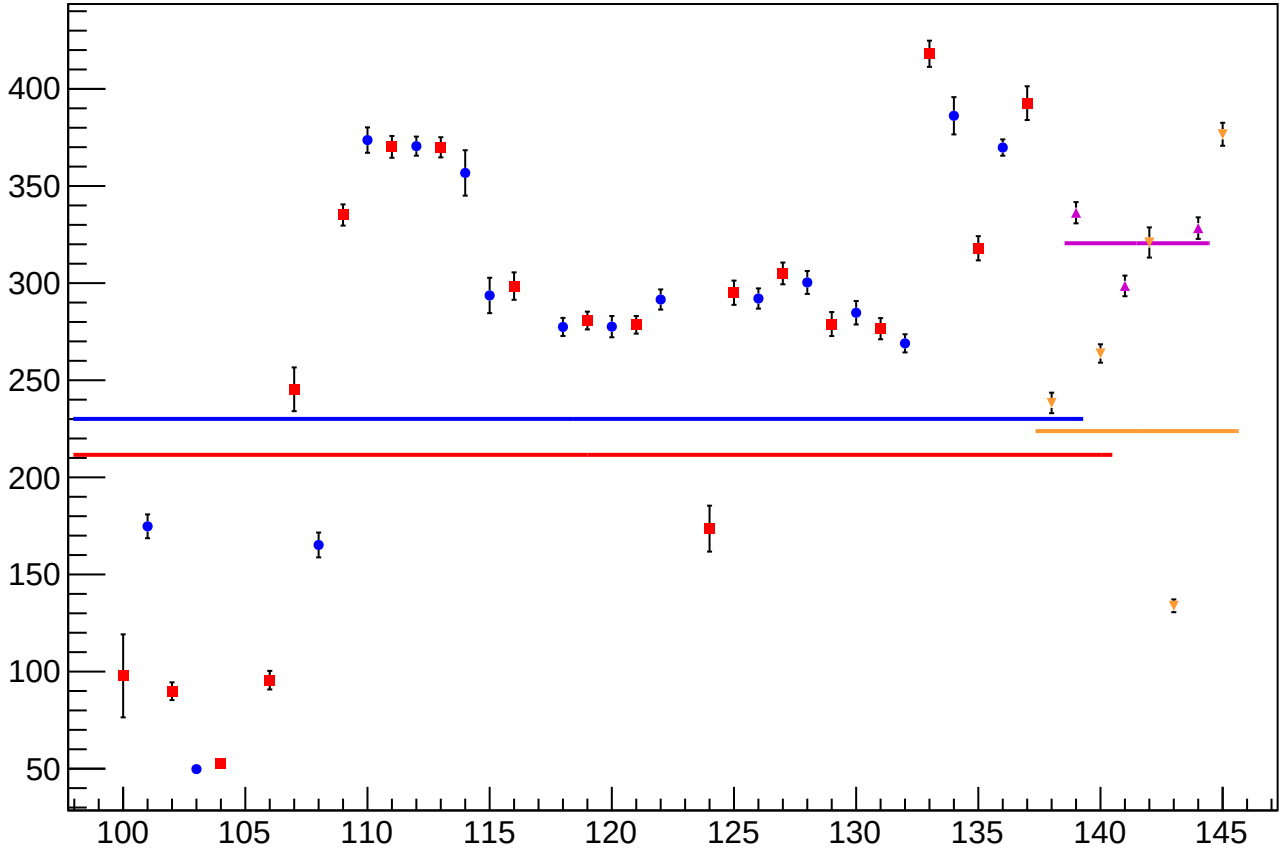
In: -217.307+/-1.104 $\chi^2$/NDF:4834.8/18

Out: -197.972+/-0.988 $\chi^2$/NDF:6220.1/23

All: -206.573+/-0.736 $\chi^2$/NDF: 11225.2/42


reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
60
50
40
30
20
10
0
−10
100
105
110
115
120
125
130
135
140
145
Right In: 12.592+/-1.203 χ²/NDF: 68.5/15
Left Out: 21.717+/-1.631 χ²/NDF:85.5/4
Right Out: 11.880+/-1.122 χ²/NDF: 84.9/18
Left In: 30.452+/-2.629 χ²/NDF:0.3/2
Left: 24.145+/-1.386 χ²/NDF: 93.7/7
Right: 12.211+/-0.820 χ²/NDF: 153.6/34
In: 15.684+/-1.094 χ²/NDF:106.9/18
Out: 15.039+/-0.924 χ²/NDF:195.1/23
All: 15.308+/-0.706 χ²/NDF: 302.3/42

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: 223.813+/-2.145 $\chi^2$/NDF:1644.2/4

Right Out: 211.588+/-1.195 $\chi^2$/NDF: 11472.1/18

Left In: 320.536+/-3.140 $\chi^2$/NDF:27.3/2

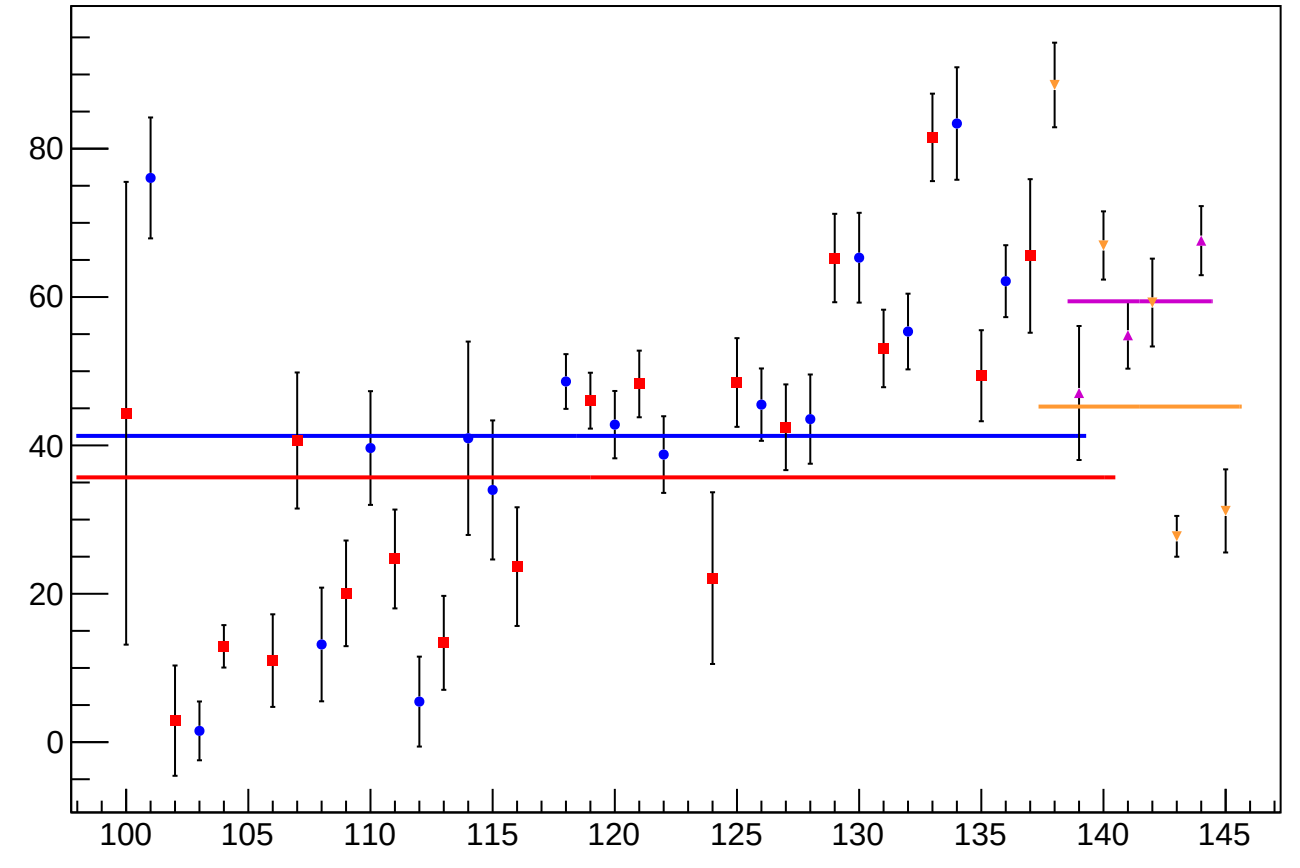
Left: 254.582+/-1.771 $\chi^2$/NDF: 2318.4/7

Right: 220.357+/-0.867 $\chi^2$/NDF: 20961.4/34

In: 242.629+/-1.169 $\chi^2$/NDF:10117.4/18

Out: 214.485+/-1.044 $\chi^2$/NDF:13141.1/23

All: 226.973+/-0.779 $\chi^2$/NDF: 23581.0/42




Right In: 41.282+/-1.398 $\chi^2$/NDF: 245.8/15

Left Out: 45.235+/-1.922 $\chi^2$/NDF:132.5/4

Right Out: 35.692+/-1.317 $\chi^2$/NDF: 253.2/18

Left In: 59.424+/-3.047 $\chi^2$/NDF:6.0/2

Left: 49.274+/-1.626 $\chi^2$/NDF: 153.9/7

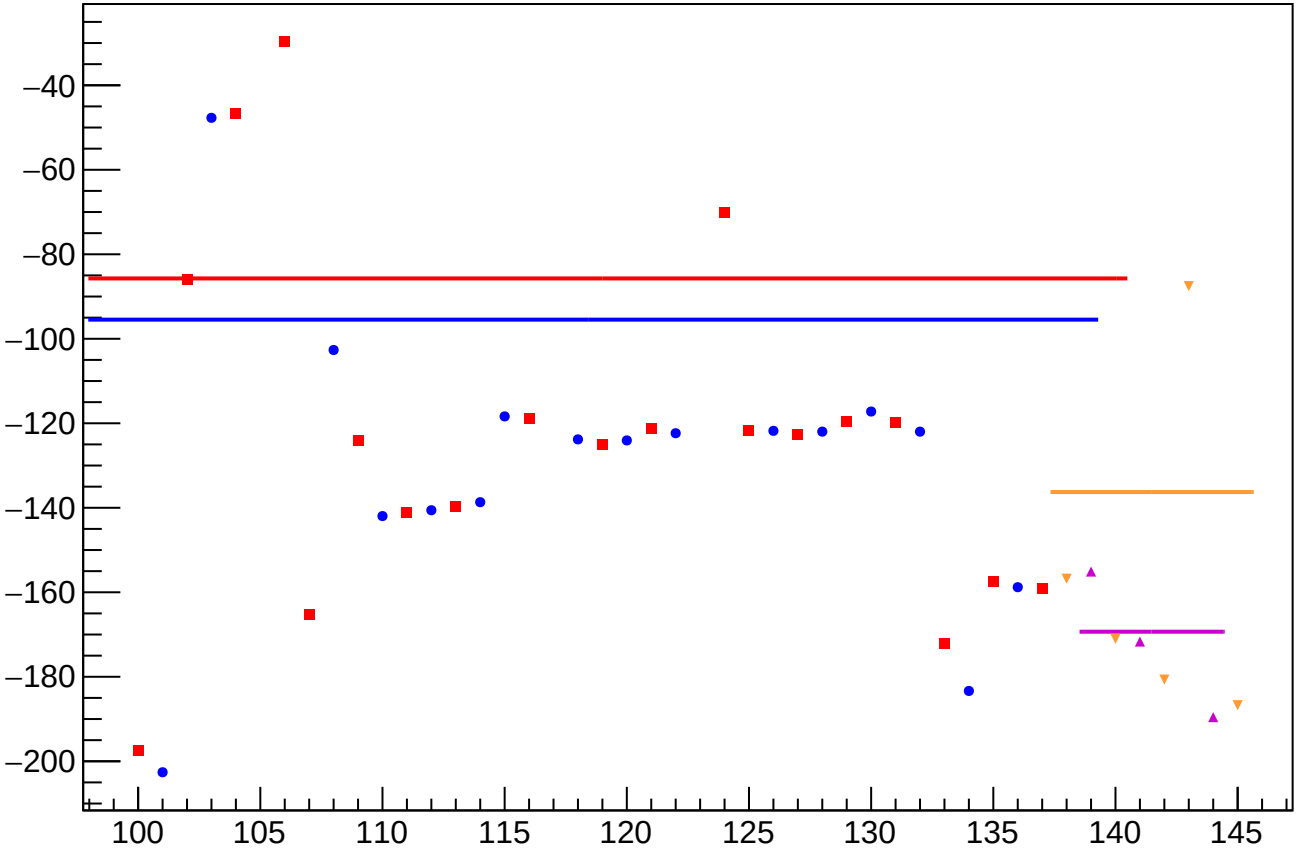
Right: 38.321+/-0.958 $\chi^2$/NDF: 507.4/34

In: 44.434+/-1.270 $\chi^2$/NDF:281.0/18

Out: 38.740+/-1.086 $\chi^2$/NDF:402.4/23

All: 41.146+/-0.826 $\chi^2$/NDF: 695.0/42

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -95.468+/-0.069 $\chi^2$/NDF: 519953.8/15

Left Out: -136.275+/-0.089 $\chi^2$/NDF:227697.6/4

Right Out: -85.716+/-0.067 $\chi^2$/NDF: 482604.9/18

Left In: -169.335+/-0.125 $\chi^2$/NDF:12084.5/2

Left: -147.396+/-0.073 $\chi^2$/NDF: 285899.6/7

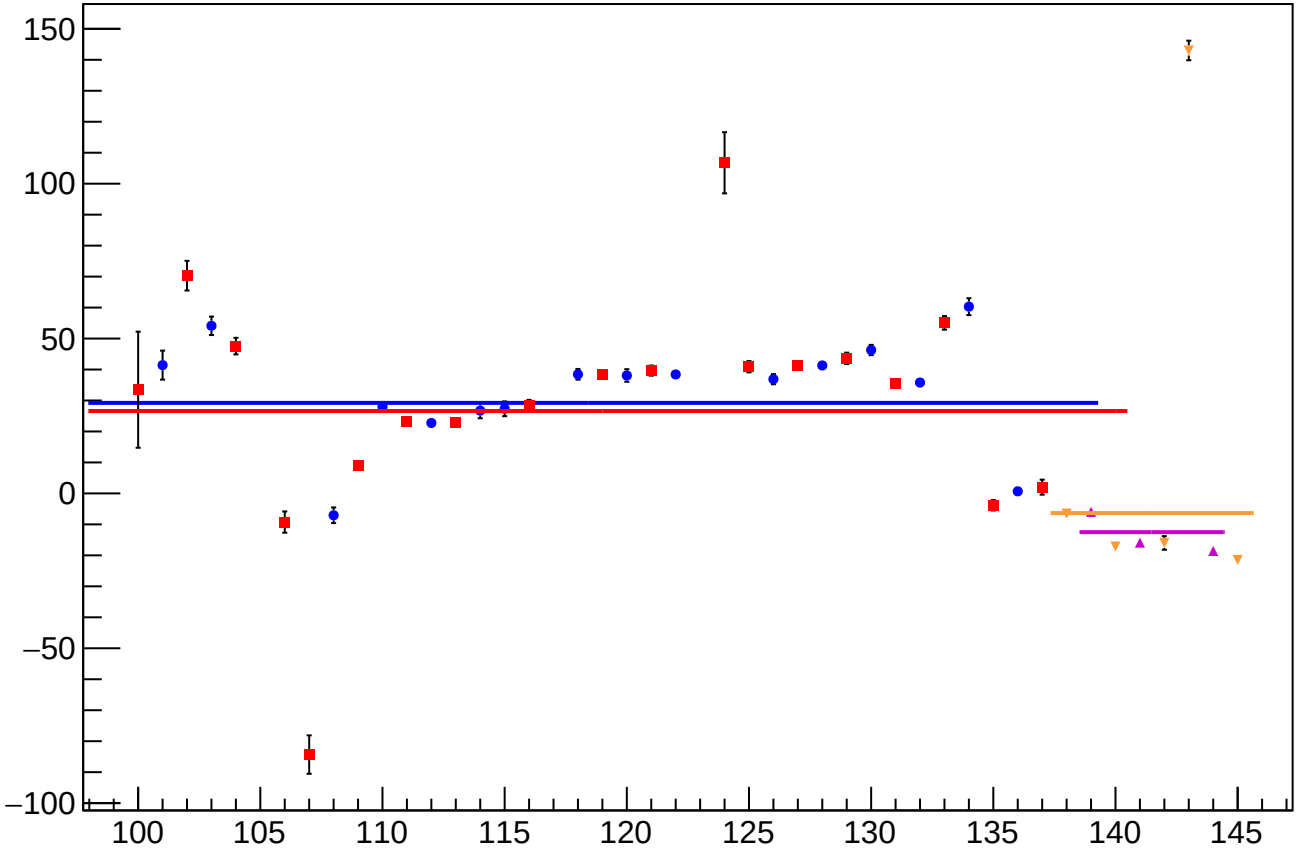
Right: -90.413+/-0.048 $\chi^2$/NDF: 1012777.7/34

In: -112.806+/-0.061 $\chi^2$/NDF:797544.6/18

Out: -103.911+/-0.054 $\chi^2$/NDF:915532.3/23

All: -107.801+/-0.040 $\chi^2$/NDF: 1725137.0/42

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: -6.343+/-0.713 $\chi^2$/NDF:2426.5/4

Right Out: 26.609+/-0.414 $\chi^2$/NDF: 1920.6/18

Left In: -12.505+/-0.793 $\chi^2$/NDF:50.7/2

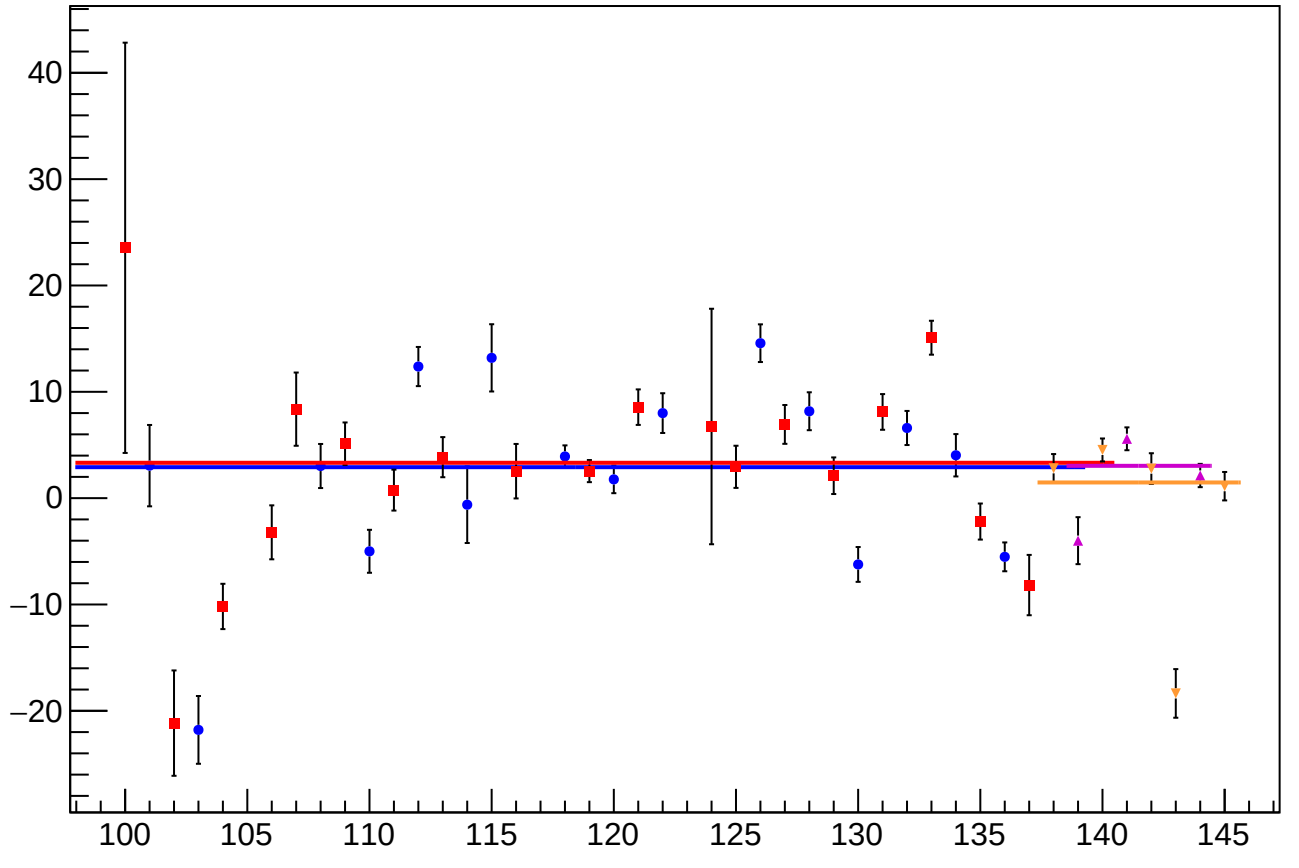
Left: -9.100+/-0.530 $\chi^2$/NDF: 2510.6/7

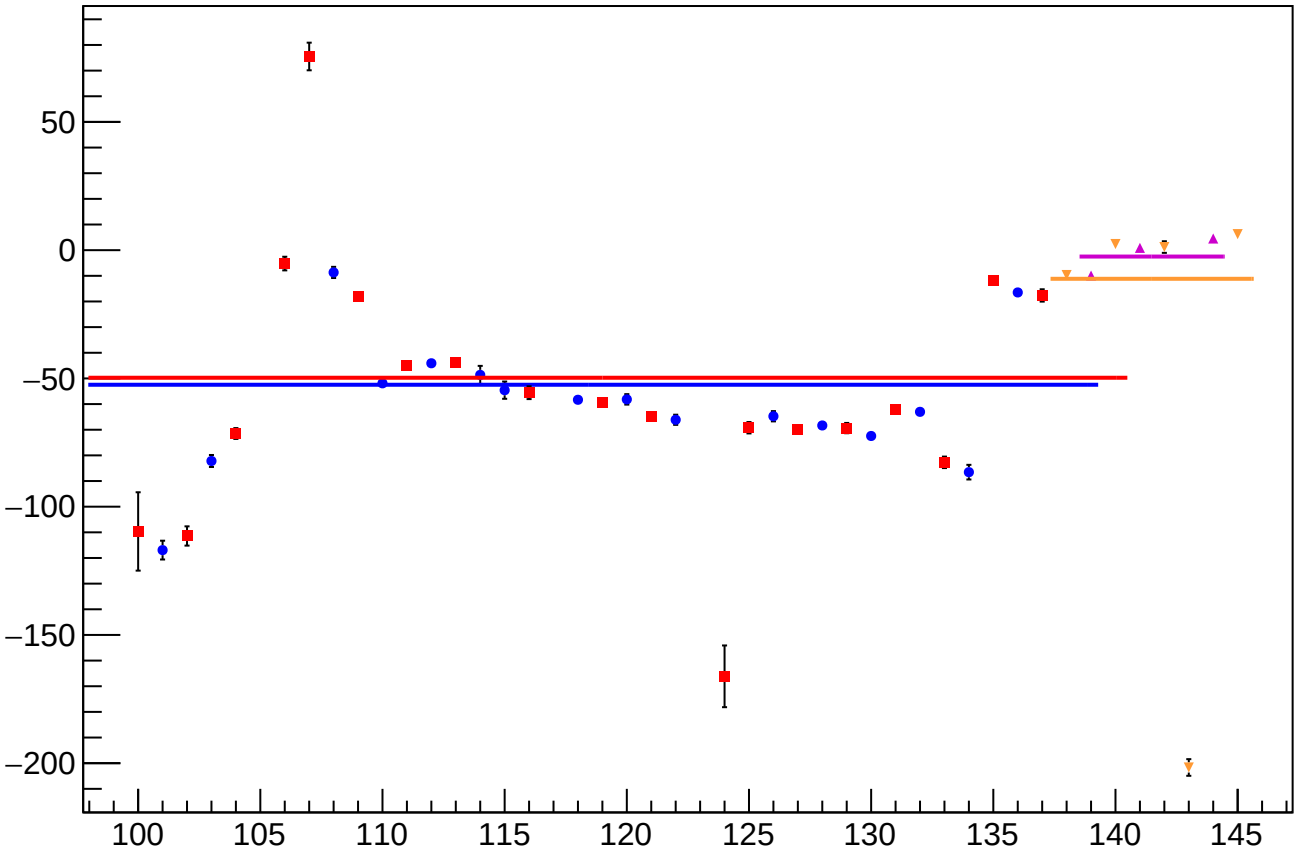
Right: 27.887+/-0.296 $\chi^2$/NDF: 3283.1/34

In: 19.932+/-0.374 $\chi^2$/NDF:3549.0/18

Out: 18.302+/-0.358 $\chi^2$/NDF:5943.5/23

All: 19.082+/-0.259 $\chi^2$/NDF: 9502.4/42


reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
40
30
20
10
0
−10
−20
100
105
110
115
120
125
130
135
140
145
Right In: 2.912+/-0.442 χ²/NDF: 250.0/15
Left Out: 1.475+/-0.615 χ²/NDF:85.1/4
Right Out: 3.326+/-0.454 χ²/NDF: 181.8/18
Left In: 3.040+/-0.724 χ²/NDF:16.4/2
Left: 2.131+/-0.469 χ²/NDF: 104.3/7
Right: 3.114+/-0.317 χ²/NDF: 432.2/34
In: 2.947+/-0.378 χ²/NDF:266.4/18
Out: 2.674+/-0.365 χ²/NDF:272.8/23
All: 2.806+/-0.262 χ²/NDF: 539.5/42




Right In: -52.467+/-0.488 $\chi^2$/NDF: 2330.2/15

Left Out: -11.160+/-0.735 $\chi^2$/NDF:3706.2/4

Right Out: -49.734+/-0.494 $\chi^2$/NDF: 3009.7/18

Left In: -2.487+/-0.819 $\chi^2$/NDF:60.1/2

Left: -7.290+/-0.547 $\chi^2$/NDF: 3828.4/7

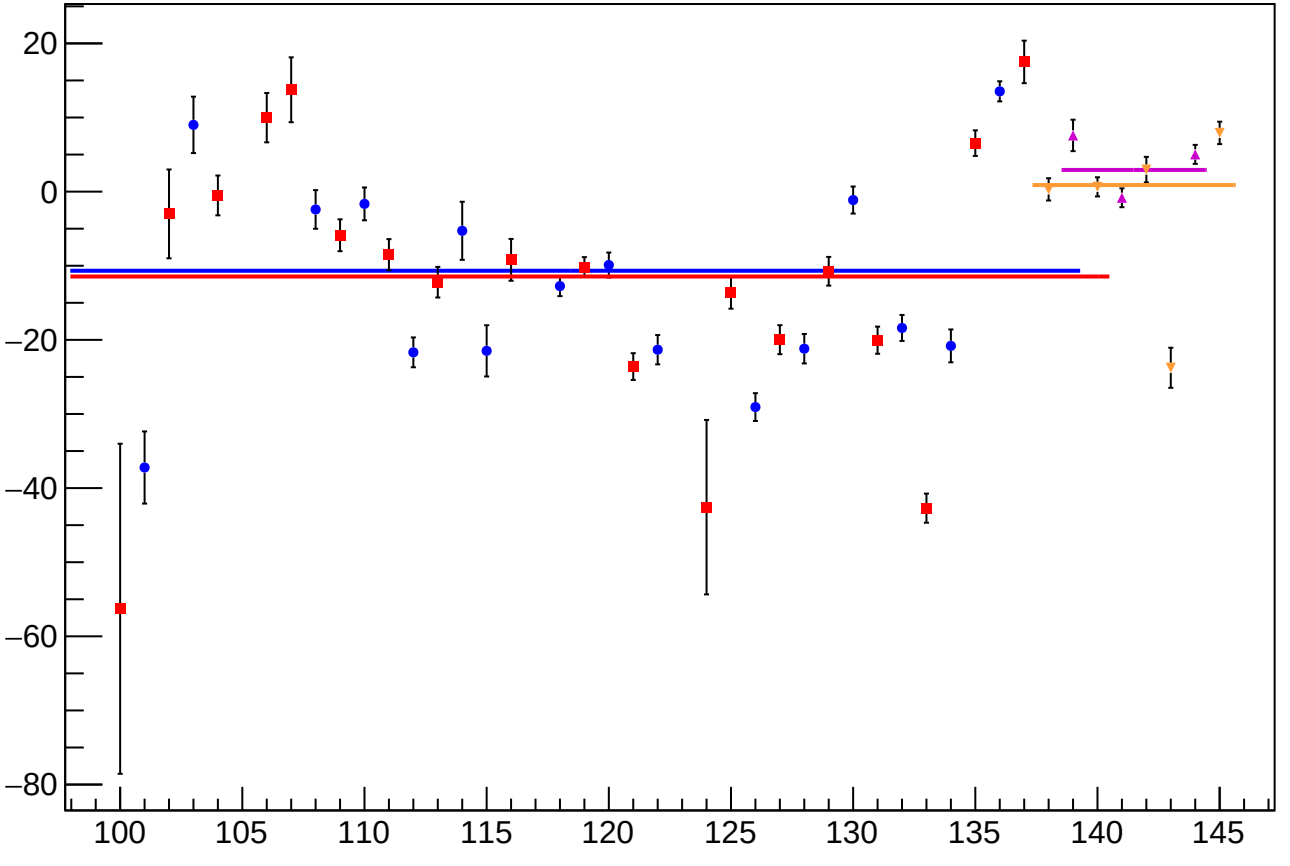
Right: -51.118+/-0.347 $\chi^2$/NDF: 5355.4/34

In: -39.387+/-0.419 $\chi^2$/NDF:5138.0/18

Out: -37.739+/-0.410 $\chi^2$/NDF:8611.5/23

All: -38.545+/-0.293 $\chi^2$/NDF: 13757.4/42

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -10.675+/-0.505 $\chi^2$/NDF: 666.4/15

Left Out: 0.888+/-0.715 $\chi^2$/NDF:106.3/4

Right Out: -11.450+/-0.516 $\chi^2$/NDF: 665.7/18

Left In: 2.927+/-0.831 $\chi^2$/NDF:16.2/2

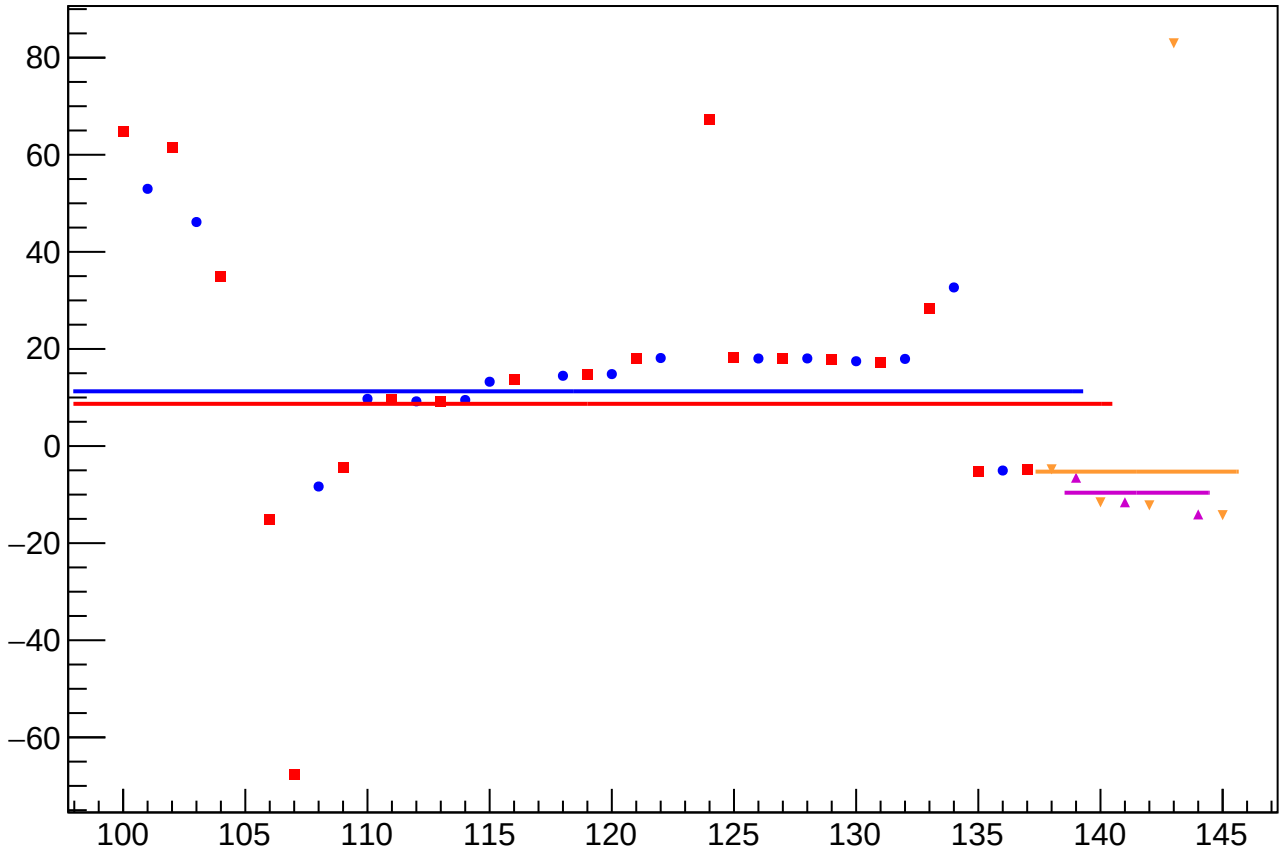
Left: 1.756+/-0.542 $\chi^2$/NDF: 126.0/7

Right: -11.054+/-0.361 $\chi^2$/NDF: 1333.3/34

In: -7.000+/-0.432 $\chi^2$/NDF:878.3/18

Out: -7.227+/-0.419 $\chi^2$/NDF:967.7/23

All: -7.117+/-0.301 $\chi^2$/NDF: 1846.1/42




Right In: 11.277+/-0.030 $\chi^2$/NDF: 349346.9/15

Left Out: -5.268+/-0.030 $\chi^2$/NDF:464678.9/4

Right Out: 8.698+/-0.031 $\chi^2$/NDF: 436156.0/18

Left In: -9.611+/-0.032 $\chi^2$/NDF:9957.1/2

Left: -7.295+/-0.022 $\chi^2$/NDF: 484350.2/7

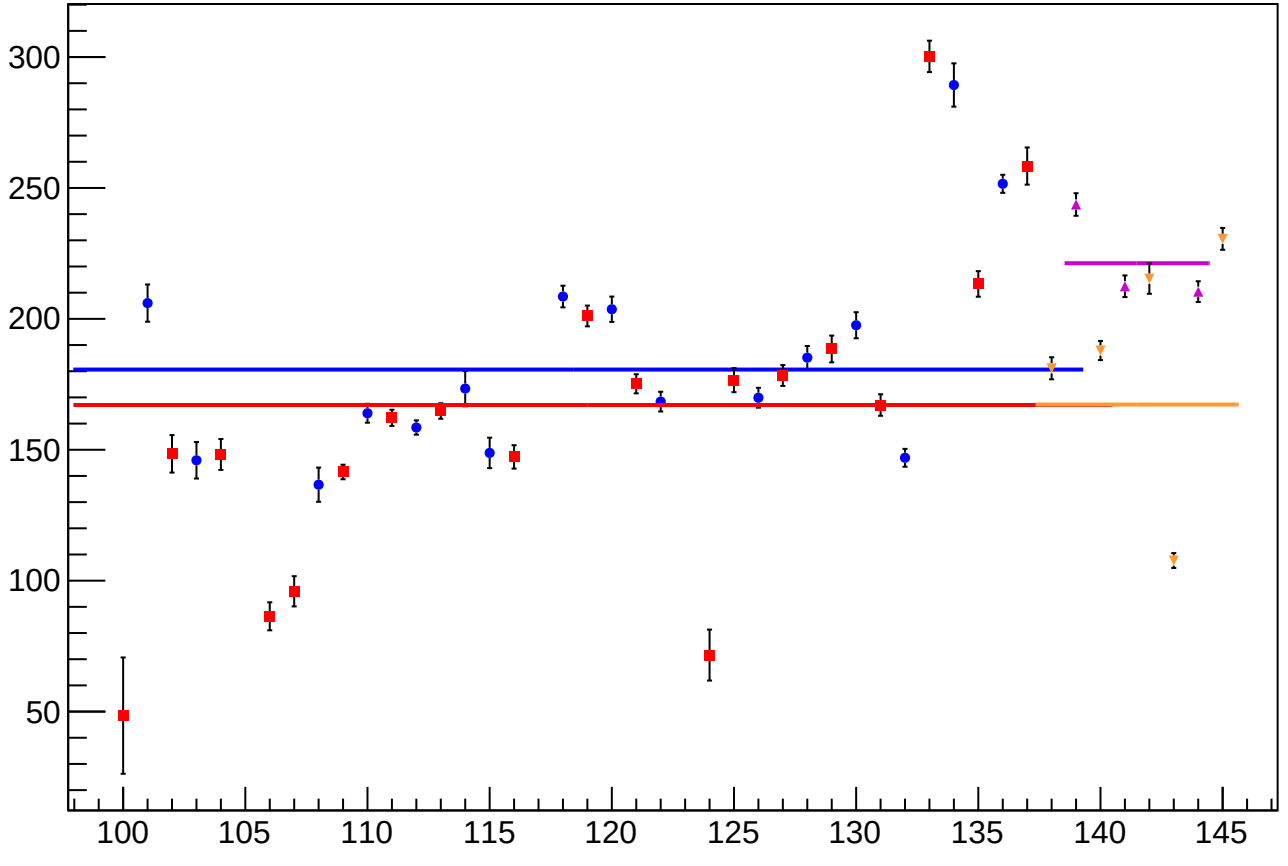
Right: 10.050+/-0.022 $\chi^2$/NDF: 789035.8/34

In: 1.589+/-0.022 $\chi^2$/NDF:585311.4/18

Out: 1.417+/-0.022 $\chi^2$/NDF:1003819.6/23

All: 1.503+/-0.015 $\chi^2$/NDF: 1589161.9/42

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: 167.266+/-1.710 $\chi^2$/NDF:780.2/4

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 221.260+/-2.383 $\chi^2$/NDF:39.1/2

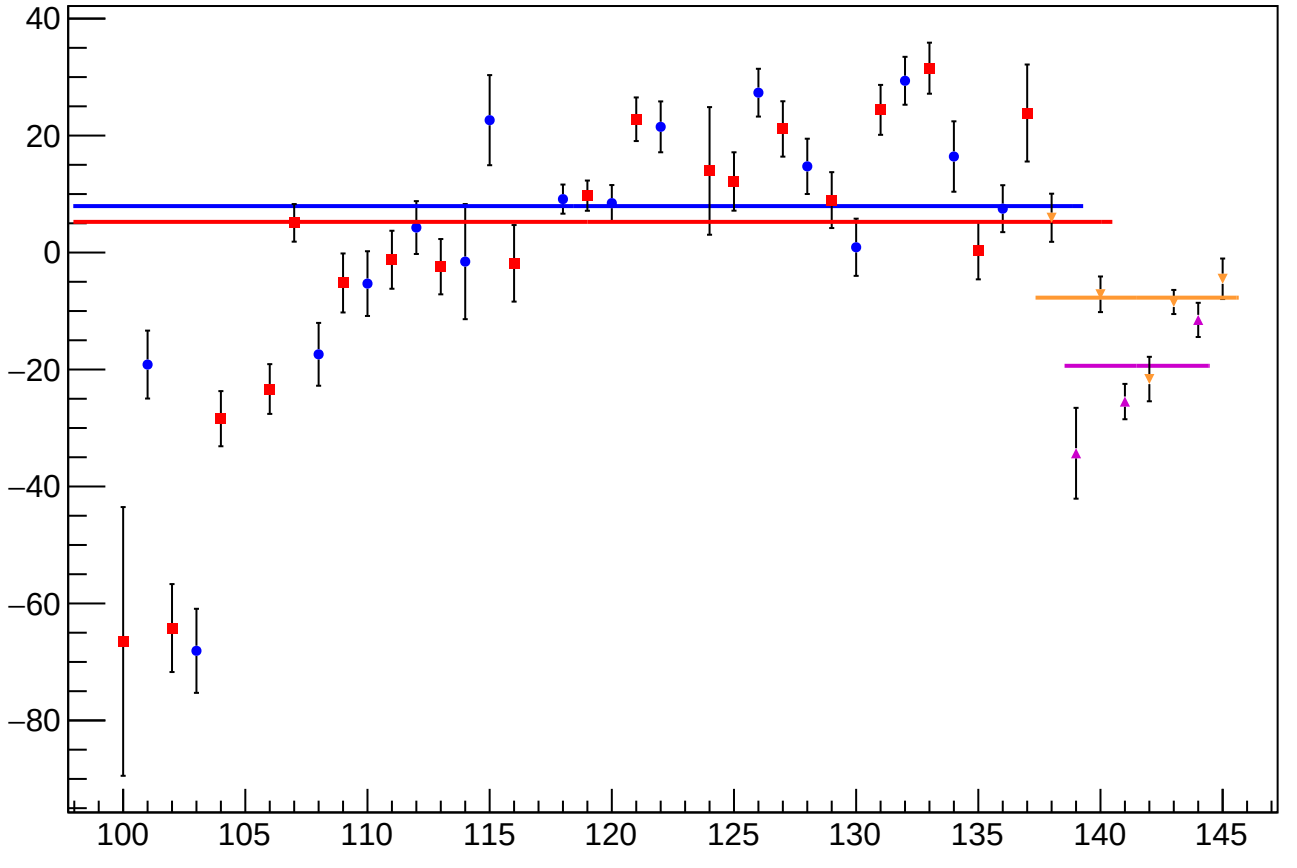
Left: 185.620+/-1.390 $\chi^2$/NDF: 1158.1/7

Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 187.658+/-0.991 $\chi^2$/NDF:1272.9/18

Out: 167.145+/-0.877 $\chi^2$/NDF:2264.7/23

All: 176.149+/-0.657 $\chi^2$/NDF: 3778.0/42




Right In: 7.942+/-1.113 $\chi^2$/NDF: 232.9/15

Left Out: -7.712+/-1.342 $\chi^2$/NDF:25.5/4

Right Out: 5.244+/-1.062 $\chi^2$/NDF: 302.9/18

Left In: -19.365+/-2.028 $\chi^2$/NDF:15.0/2

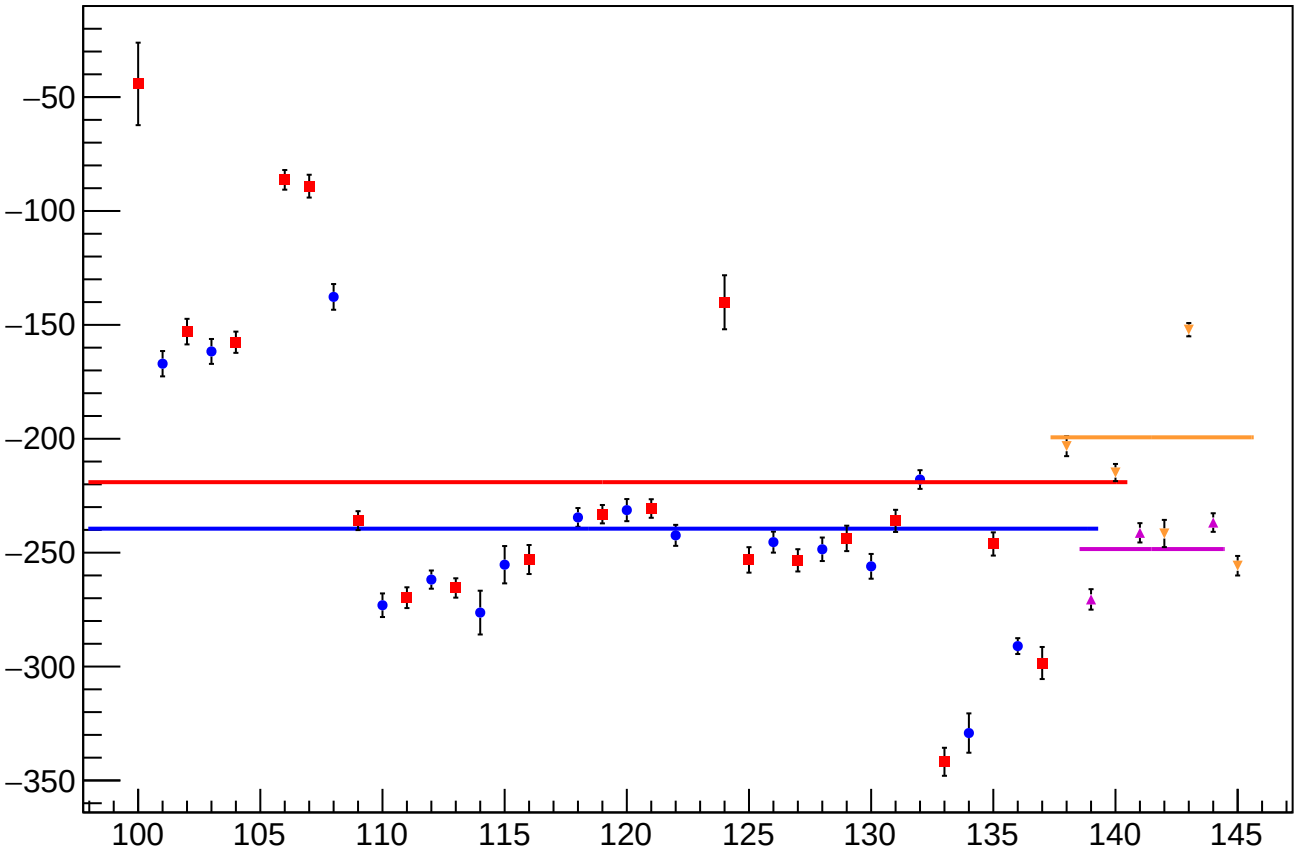
Left: -11.262+/-1.119 $\chi^2$/NDF: 63.4/7

Right: 6.530+/-0.768 $\chi^2$/NDF: 538.9/34

In: 1.619+/-0.976 $\chi^2$/NDF:387.2/18

Out: 0.256+/-0.833 $\chi^2$/NDF:385.7/23

All: 0.831+/-0.634 $\chi^2$/NDF: 774.1/42




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -199.365+/-1.763 $\chi^2$/NDF:501.5/4

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -248.416+/-2.460 $\chi^2$/NDF:35.2/2

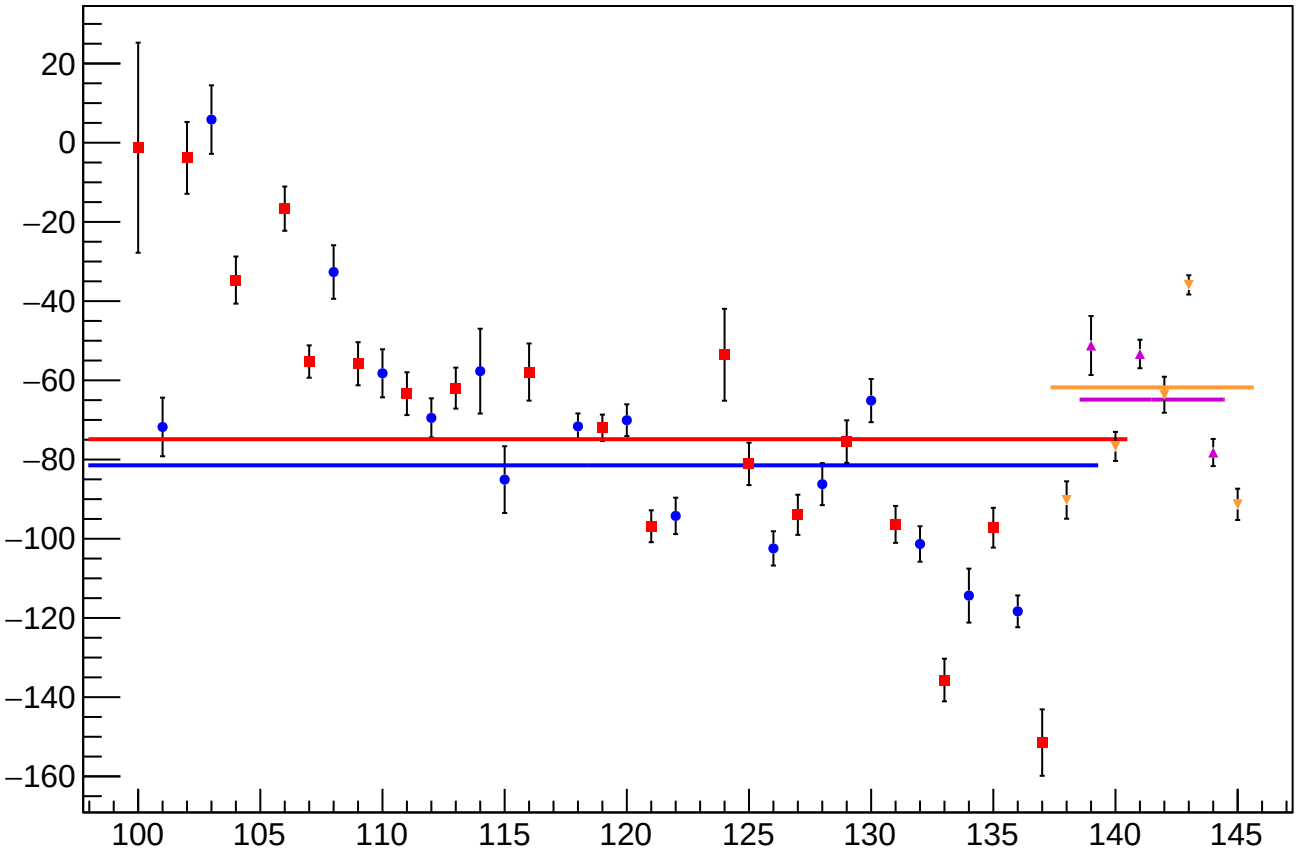
Left: -216.005+/-1.433 $\chi^2$/NDF: 799.3/7

Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -241.293+/-1.111 $\chi^2$/NDF:1207.9/18

Out: -212.988+/-0.978 $\chi^2$/NDF:3637.0/23

All: -225.351+/-0.734 $\chi^2$/NDF: 5210.5/42




Right In: -81.462+/-1.287 $\chi^2$/NDF: 366.5/15

Left Out: -61.784+/-1.581 $\chi^2$/NDF:221.5/4

Right Out: -74.861+/-1.230 $\chi^2$/NDF: 576.6/18

Left In: -64.863+/-2.354 $\chi^2$/NDF:28.8/2

Left: -62.741+/-1.312 $\chi^2$/NDF: 251.5/7

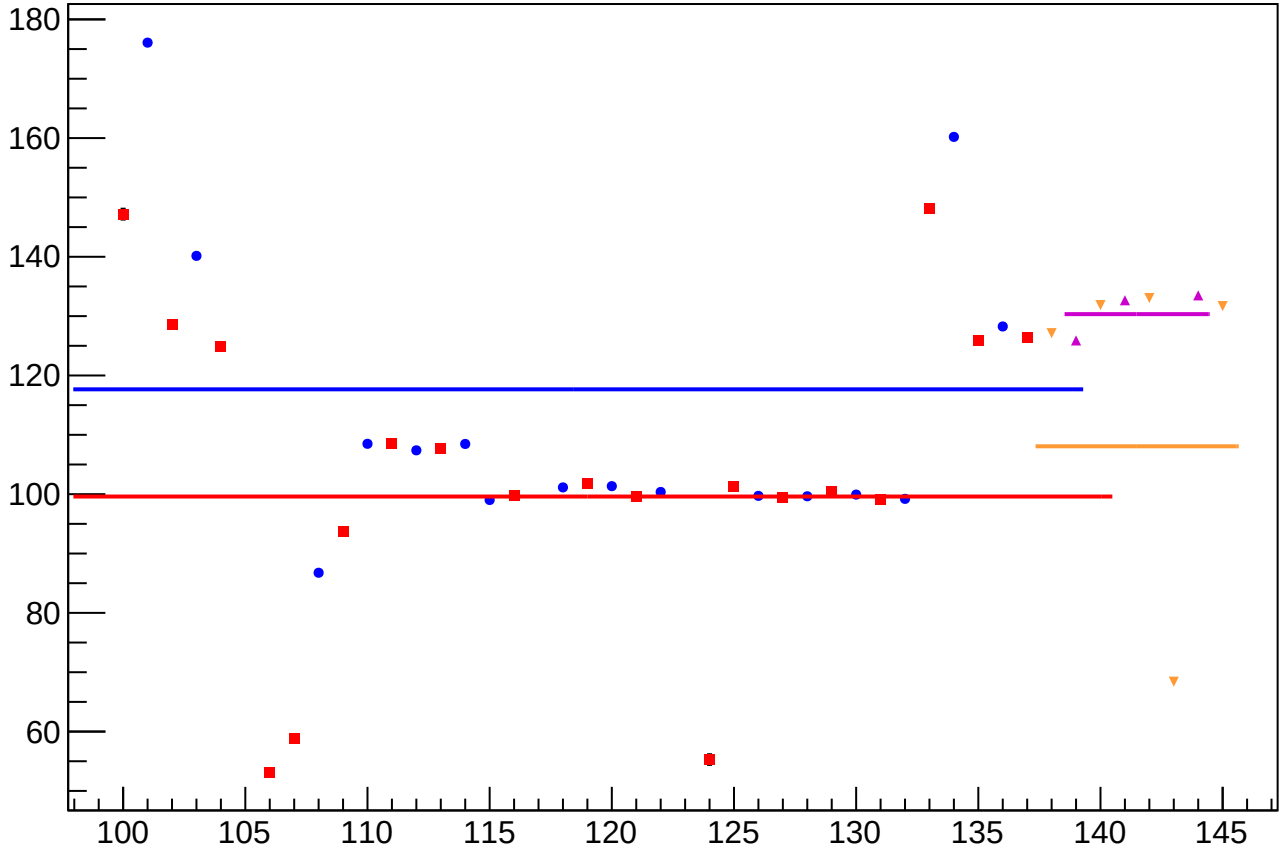
Right: -78.013+/-0.889 $\chi^2$/NDF: 956.9/34

In: -77.643+/-1.129 $\chi^2$/NDF:433.6/18

Out: -69.929+/-0.971 $\chi^2$/NDF:840.8/23

All: -73.208+/-0.736 $\chi^2$/NDF: 1301.2/42

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 108.067+/-0.073 $\chi^2$/NDF:167652.8/4

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 130.338+/-0.099 $\chi^2$/NDF:1245.3/2

Left: 115.949+/-0.059 $\chi^2$/NDF: 201572.2/7

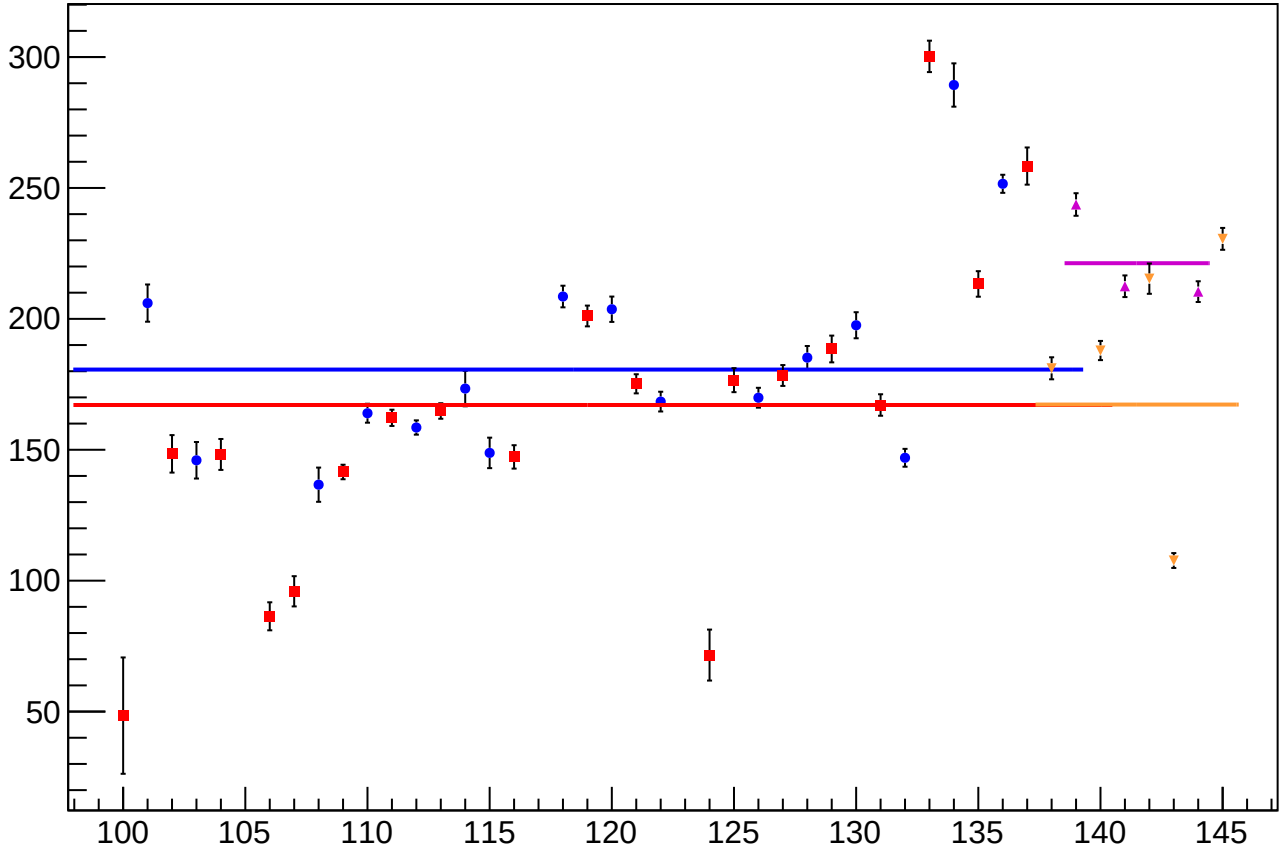
Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

In: 122.537+/-0.061 $\chi^2$/NDF:106721.9/18

Out: 103.659+/-0.051 $\chi^2$/NDF:340830.6/23

All: 111.319+/-0.039 $\chi^2$/NDF: 503726.6/42

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: 167.266+/-1.710 $\chi^2$/NDF:780.2/4

Right Out: 167.102+/-1.021 $\chi^2$/NDF: 1484.6/18

Left In: 221.260+/-2.383 $\chi^2$/NDF:39.1/2

Left: 185.620+/-1.390 $\chi^2$/NDF: 1158.1/7

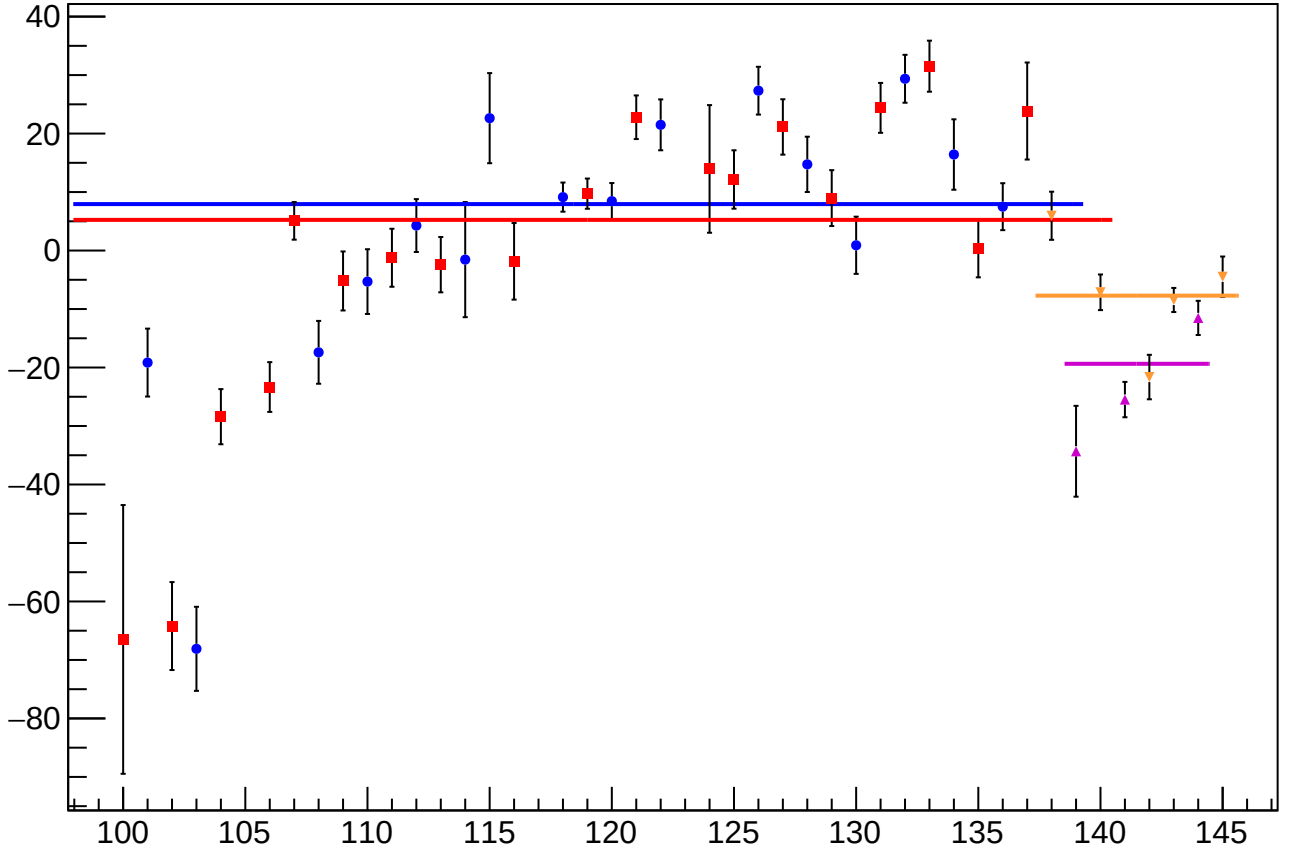
Right: 173.427+/-0.745 $\chi^2$/NDF: 2560.1/34

In: 187.658+/-0.991 $\chi^2$/NDF:1272.9/18

Out: 167.145+/-0.877 $\chi^2$/NDF:2264.7/23

All: 176.149+/-0.657 $\chi^2$/NDF: 3778.0/42

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: -7.712+/-1.342 $\chi^2$/NDF:25.5/4

Right Out: 5.244+/-1.062 $\chi^2$/NDF: 302.9/18

Left In: -19.365+/-2.028 $\chi^2$/NDF:15.0/2

Left: -11.262+/-1.119 $\chi^2$/NDF: 63.4/7

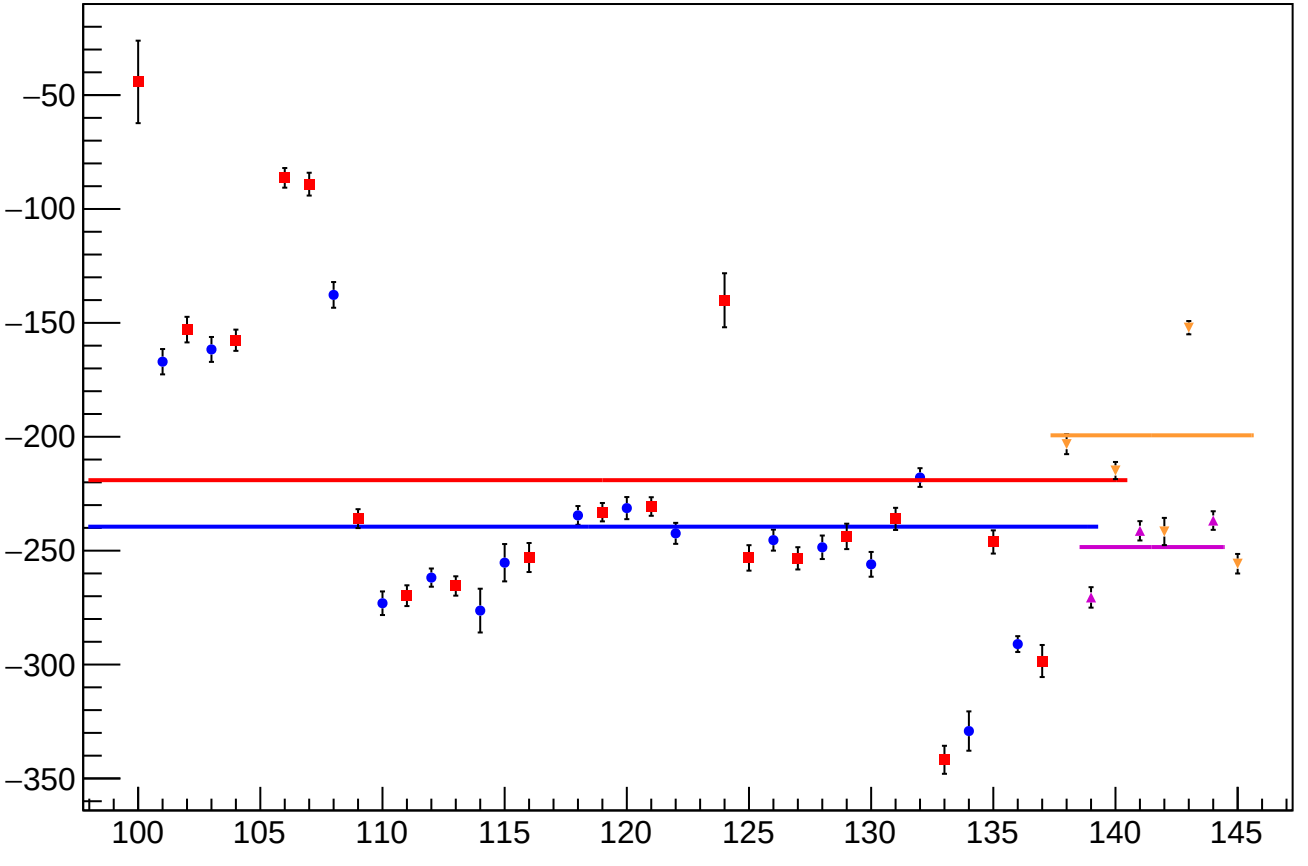
Right: 6.530+/-0.768 $\chi^2$/NDF: 538.9/34

In: 1.619+/-0.976 $\chi^2$/NDF:387.2/18

Out: 0.256+/-0.833 $\chi^2$/NDF:385.7/23

All: 0.831+/-0.634 $\chi^2$/NDF: 774.1/42

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -239.468+/-1.245 $\chi^2$/NDF: 1162.2/15

Left Out: -199.365+/-1.763 $\chi^2$/NDF:501.5/4

Right Out: -219.053+/-1.176 $\chi^2$/NDF: 3049.3/18

Left In: -248.416+/-2.460 $\chi^2$/NDF:35.2/2

Left: -216.005+/-1.433 $\chi^2$/NDF: 799.3/7

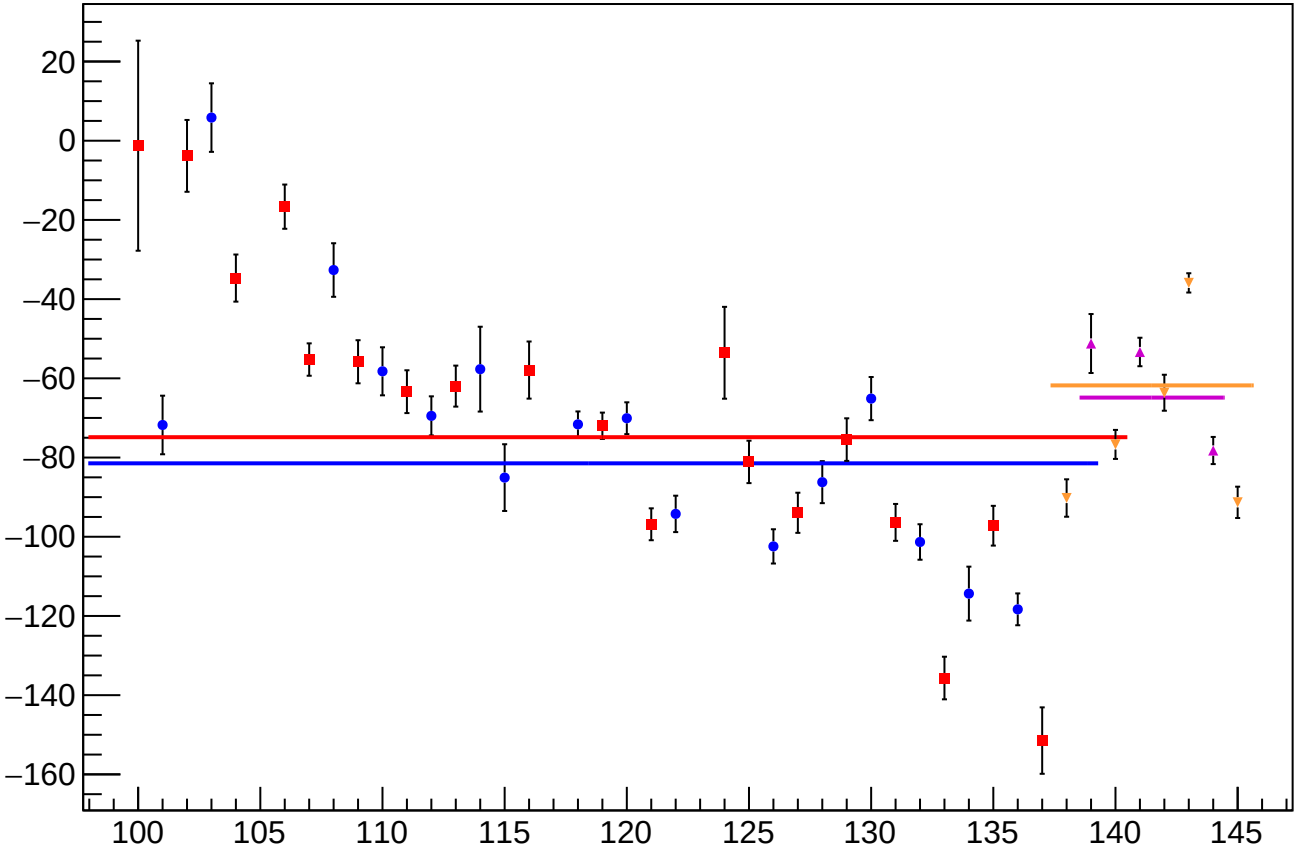
Right: -228.679+/-0.855 $\chi^2$/NDF: 4353.5/34

In: -241.293+/-1.111 $\chi^2$/NDF:1207.9/18

Out: -212.988+/-0.978 $\chi^2$/NDF:3637.0/23

All: -225.351+/-0.734 $\chi^2$/NDF: 5210.5/42

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: -61.784+/-1.581 $\chi^2$/NDF:221.5/4

Right Out: -74.861+/-1.230 $\chi^2$/NDF: 576.6/18

Left In: -64.863+/-2.354 $\chi^2$/NDF:28.8/2

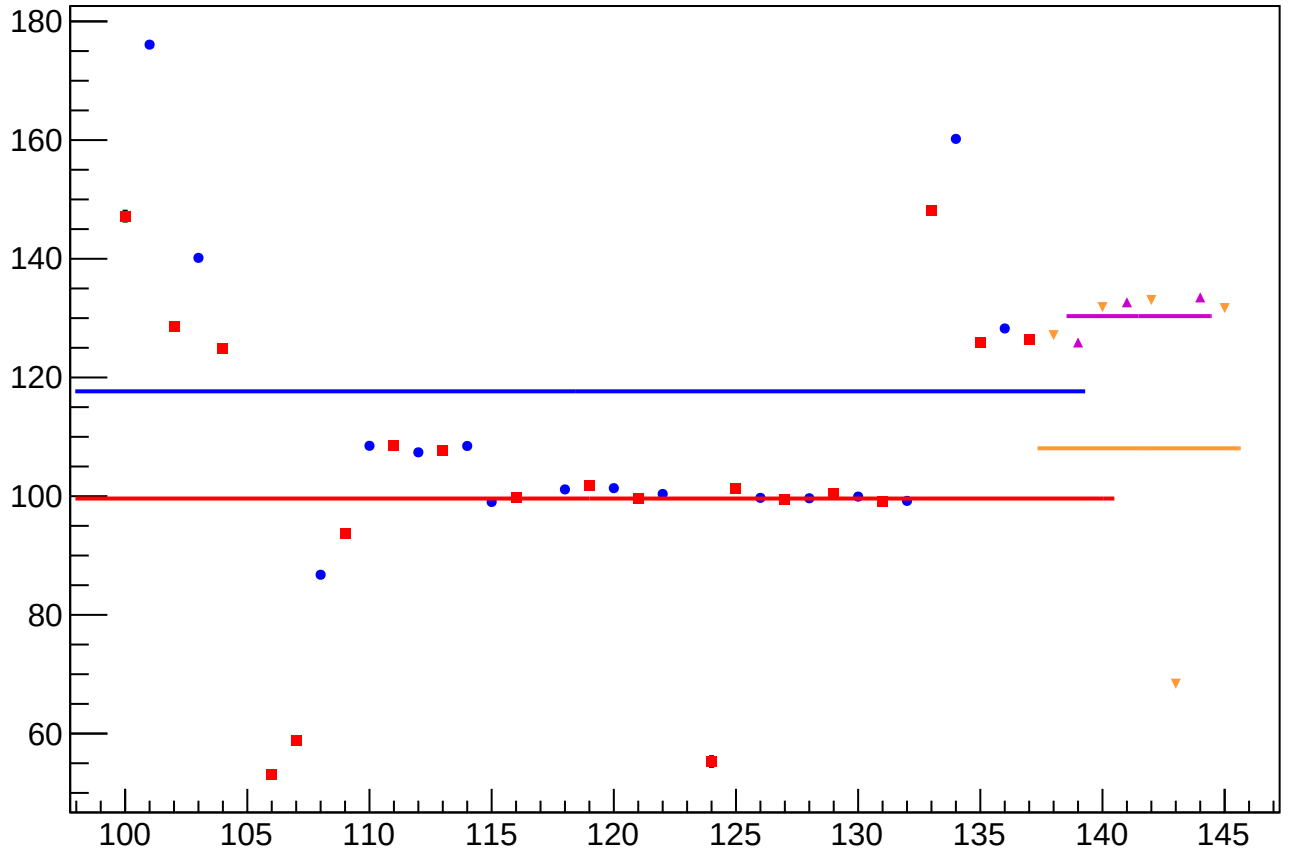
Left: -62.741+/-1.312 $\chi^2$/NDF: 251.5/7

Right: -78.013+/-0.889 $\chi^2$/NDF: 956.9/34

In: -77.643+/-1.129 $\chi^2$/NDF:433.6/18

Out: -69.929+/-0.971 $\chi^2$/NDF:840.8/23

All: -73.208+/-0.736 $\chi^2$/NDF: 1301.2/42




Right In: 117.666+/-0.078 $\chi^2$/NDF: 95397.2/15

Left Out: 108.067+/-0.073 $\chi^2$/NDF:167652.8/4

Right Out: 99.604+/-0.070 $\chi^2$/NDF: 166236.0/18

Left In: 130.338+/-0.099 $\chi^2$/NDF:1245.3/2

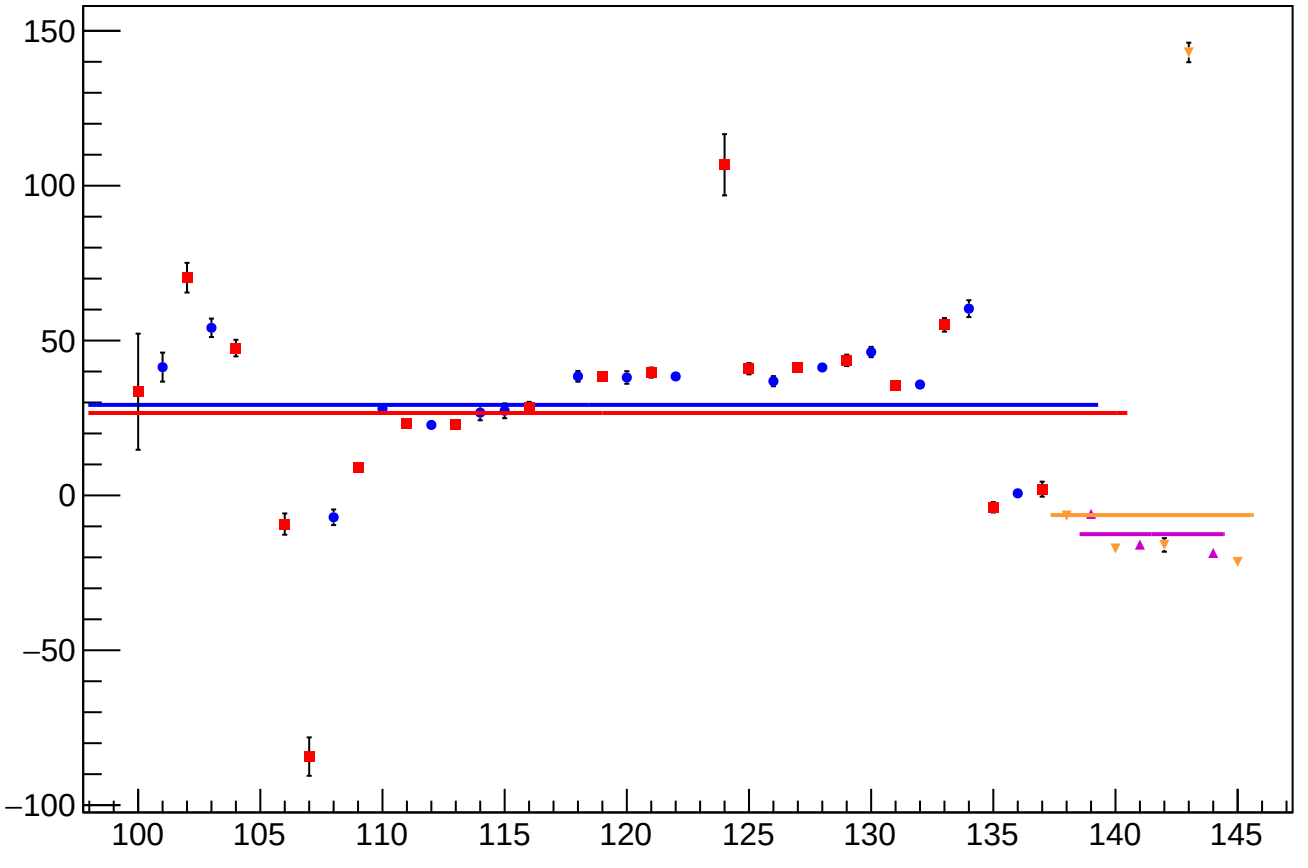
Left: 115.949+/-0.059 $\chi^2$/NDF: 201572.2/7

Right: 107.671+/-0.052 $\chi^2$/NDF: 291112.6/34

In: 122.537+/-0.061 $\chi^2$/NDF:106721.9/18

Out: 103.659+/-0.051 $\chi^2$/NDF:340830.6/23

All: 111.319+/-0.039 $\chi^2$/NDF: 503726.6/42




Right In: 29.229+/-0.424 $\chi^2$/NDF: 1342.9/15

Left Out: -6.343+/-0.713 $\chi^2$/NDF:2426.5/4

Right Out: 26.609+/-0.414 $\chi^2$/NDF: 1920.6/18

Left In: -12.505+/-0.793 $\chi^2$/NDF:50.7/2

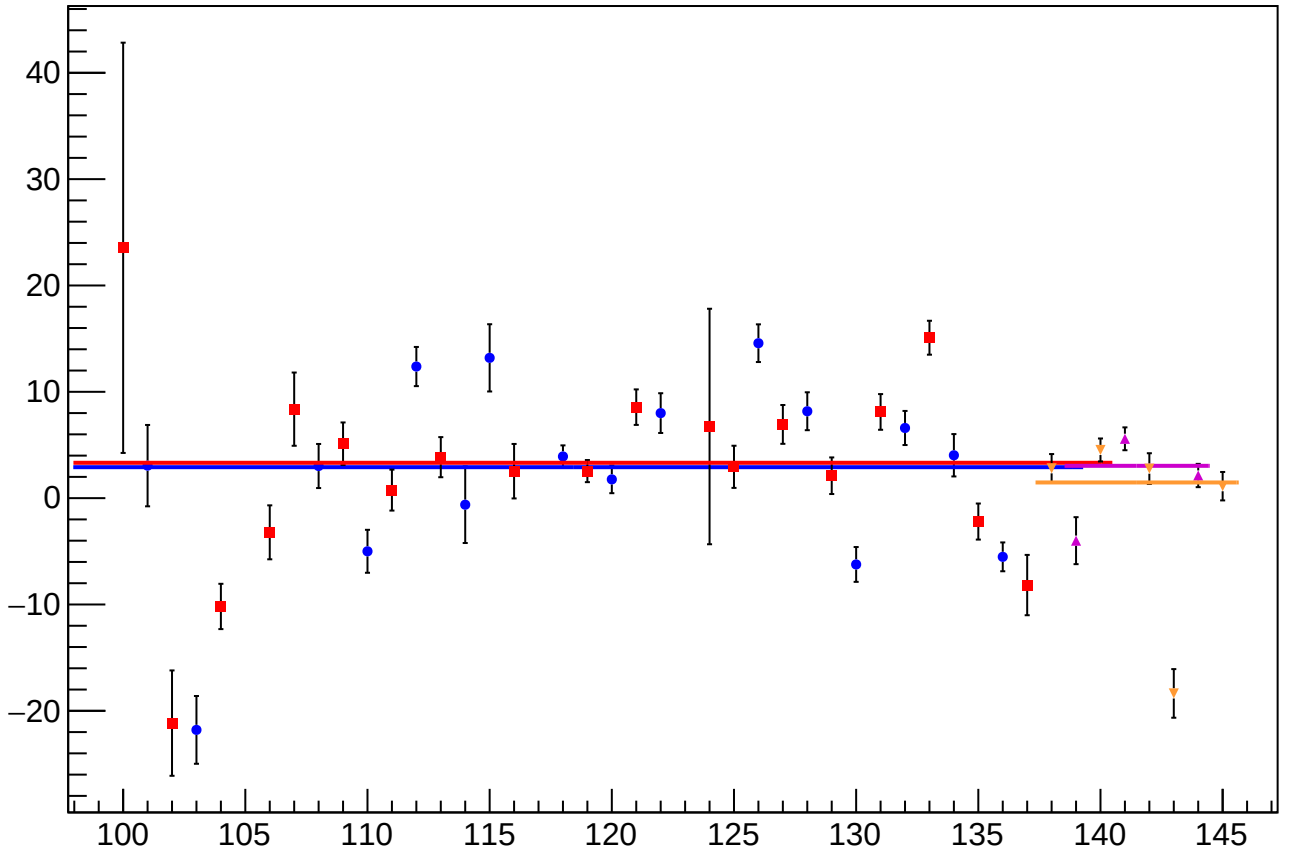
Left: -9.100+/-0.530 $\chi^2$/NDF: 2510.6/7

Right: 27.887+/-0.296 $\chi^2$/NDF: 3283.1/34

In: 19.932+/-0.374 $\chi^2$/NDF:3549.0/18

Out: 18.302+/-0.358 $\chi^2$/NDF:5943.5/23

All: 19.082+/-0.259 $\chi^2$/NDF: 9502.4/42




Right In: 2.912+/-0.442 $\chi^2$/NDF: 250.0/15

Left Out: 1.475+/-0.615 $\chi^2$/NDF:85.1/4

Right Out: 3.326+/-0.454 $\chi^2$/NDF: 181.8/18

Left In: 3.040+/-0.724 $\chi^2$/NDF:16.4/2

Left: 2.131+/-0.469 $\chi^2$/NDF: 104.3/7

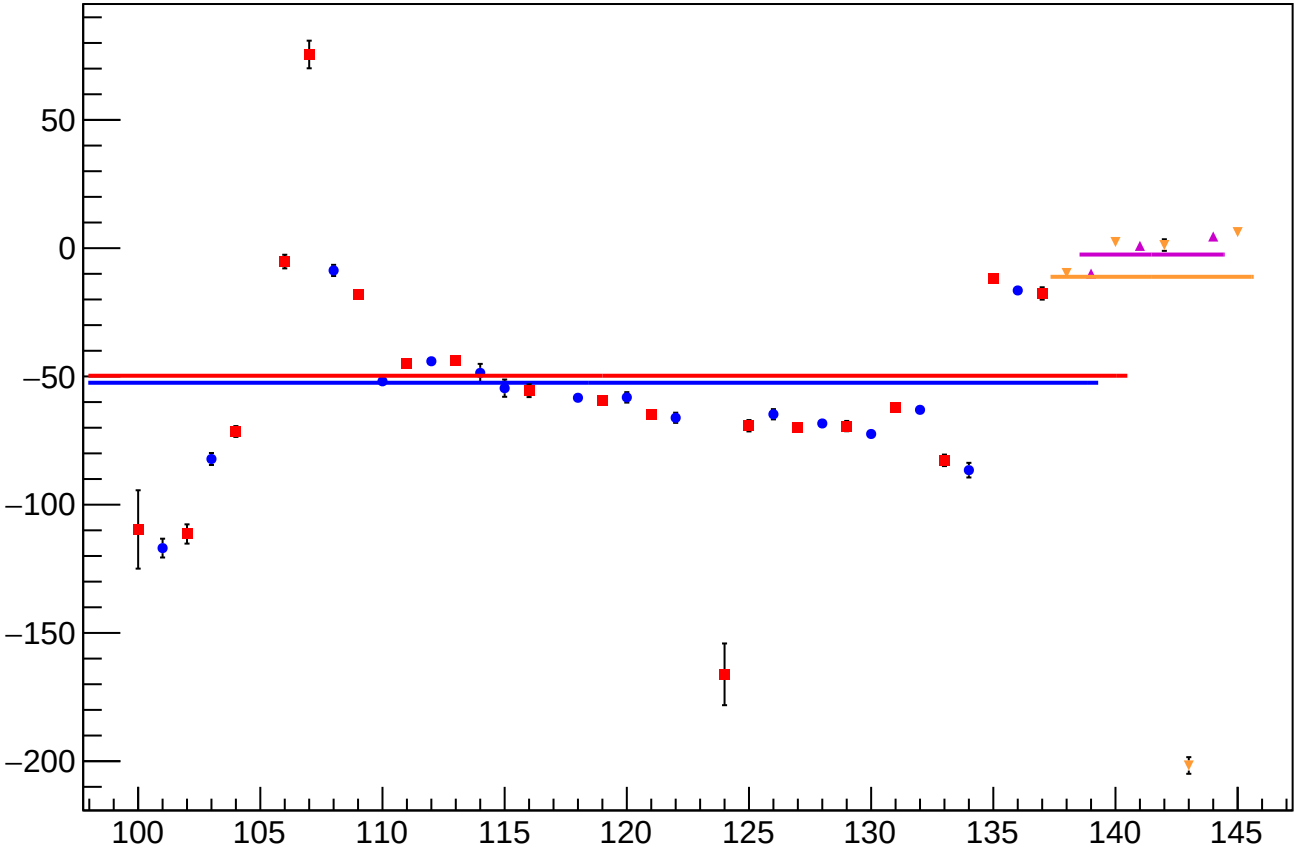
Right: 3.114+/-0.317 $\chi^2$/NDF: 432.2/34

In: 2.947+/-0.378 $\chi^2$/NDF:266.4/18

Out: 2.674+/-0.365 $\chi^2$/NDF:272.8/23

All: 2.806+/-0.262 $\chi^2$/NDF: 539.5/42

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: -11.160+/-0.735 $\chi^2$/NDF:3706.2/4

Right Out: -49.734+/-0.494 $\chi^2$/NDF: 3009.7/18

Left In: -2.487+/-0.819 $\chi^2$/NDF:60.1/2

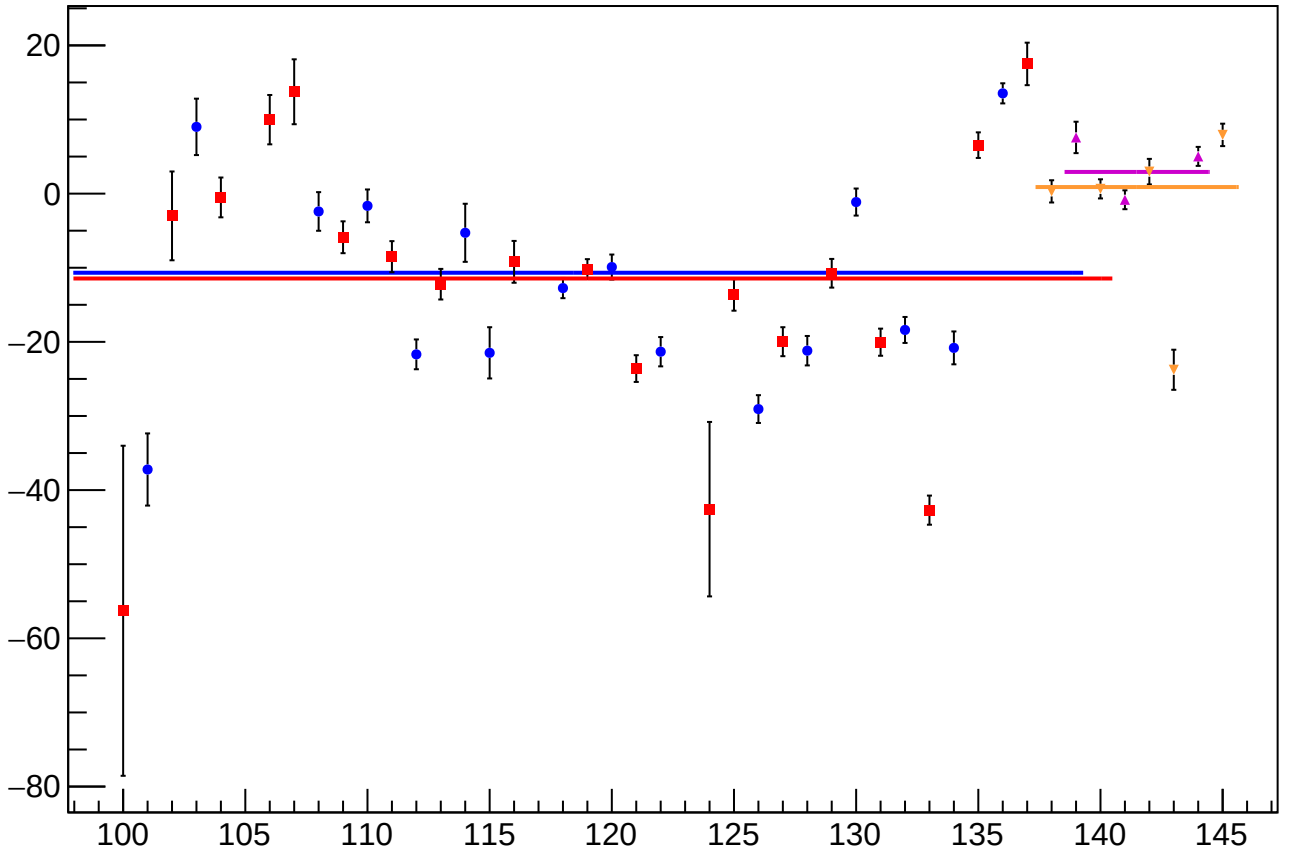
Left: -7.290+/-0.547 $\chi^2$/NDF: 3828.4/7

Right: -51.118+/-0.347 $\chi^2$/NDF: 5355.4/34

In: -39.387+/-0.419 $\chi^2$/NDF:5138.0/18

Out: -37.739+/-0.410 $\chi^2$/NDF:8611.5/23

All: -38.545+/-0.293 $\chi^2$/NDF: 13757.4/42




Right In: -10.675+/-0.505 $\chi^2$/NDF: 666.4/15

Left Out: 0.888+/-0.715 $\chi^2$/NDF:106.3/4

Right Out: -11.450+/-0.516 $\chi^2$/NDF: 665.7/18

Left In: 2.927+/-0.831 $\chi^2$/NDF:16.2/2

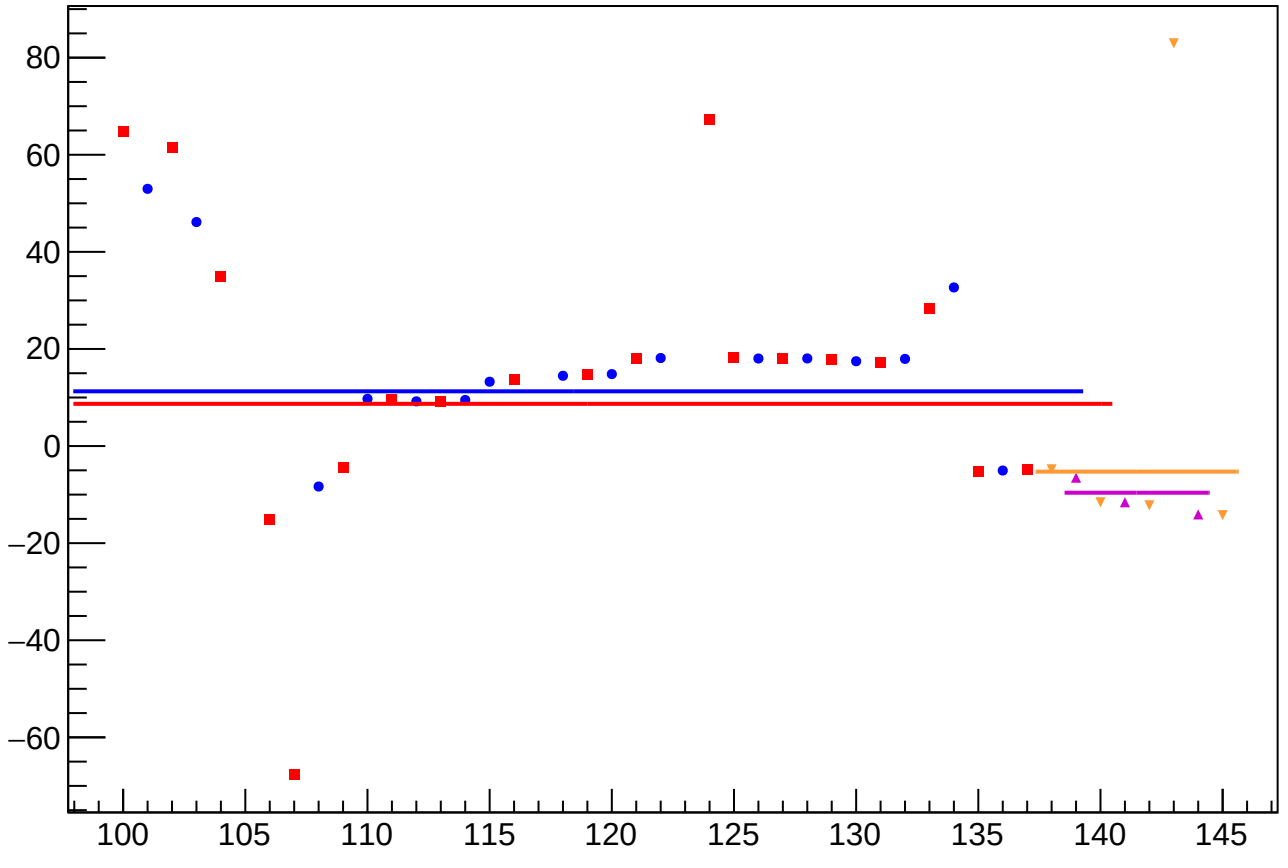
Left: 1.756+/-0.542 $\chi^2$/NDF: 126.0/7

Right: -11.054+/-0.361 $\chi^2$/NDF: 1333.3/34

In: -7.000+/-0.432 $\chi^2$/NDF:878.3/18

Out: -7.227+/-0.419 $\chi^2$/NDF:967.7/23

All: -7.117+/-0.301 $\chi^2$/NDF: 1846.1/42




Right In: 11.277+/-0.030 $\chi^2$/NDF: 349346.9/15

Left Out: -5.268+/-0.030 $\chi^2$/NDF:464678.9/4

Right Out: 8.698+/-0.031 $\chi^2$/NDF: 436156.0/18

Left In: -9.611+/-0.032 $\chi^2$/NDF:9957.1/2

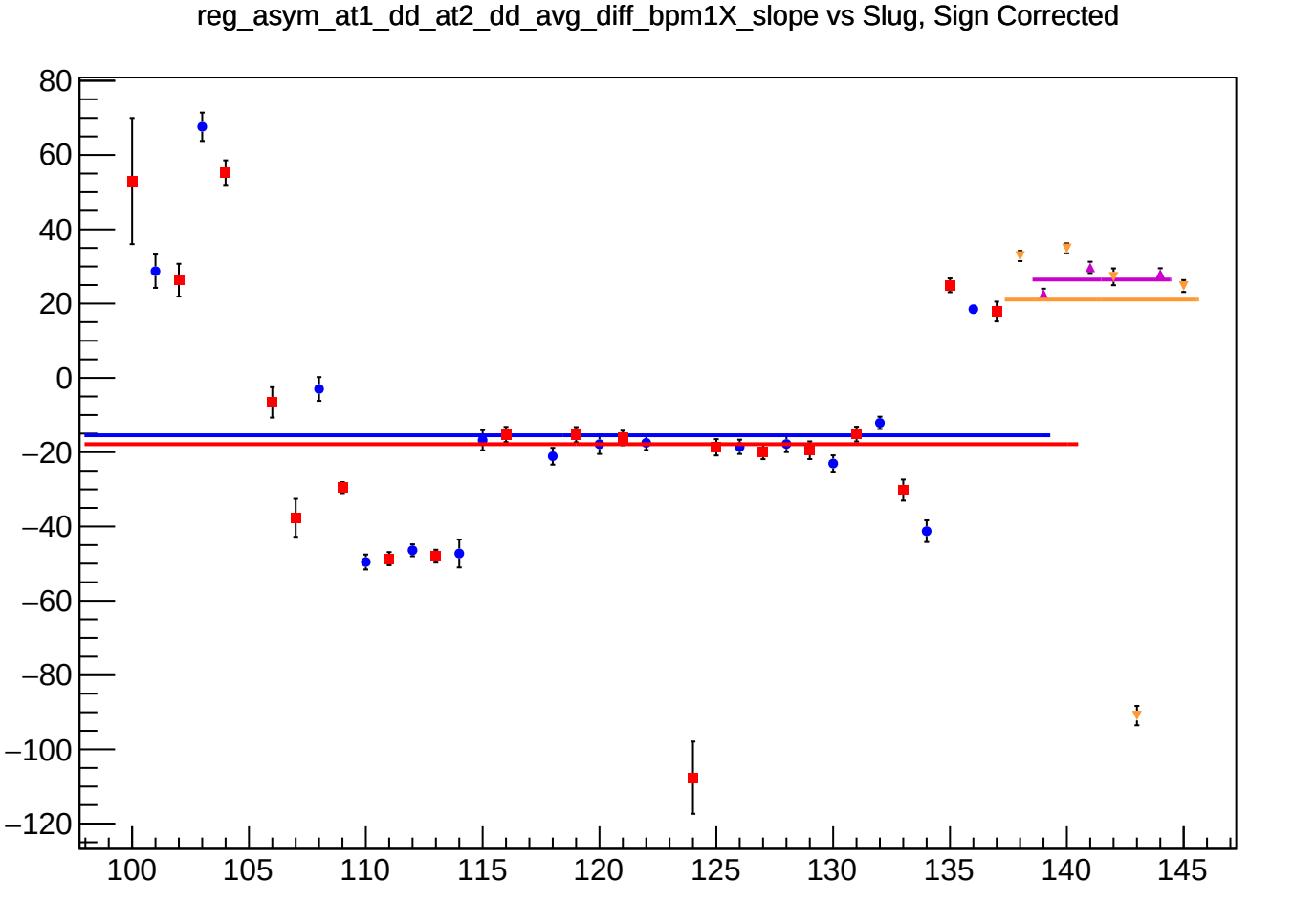
Left: -7.295+/-0.022 $\chi^2$/NDF: 484350.2/7

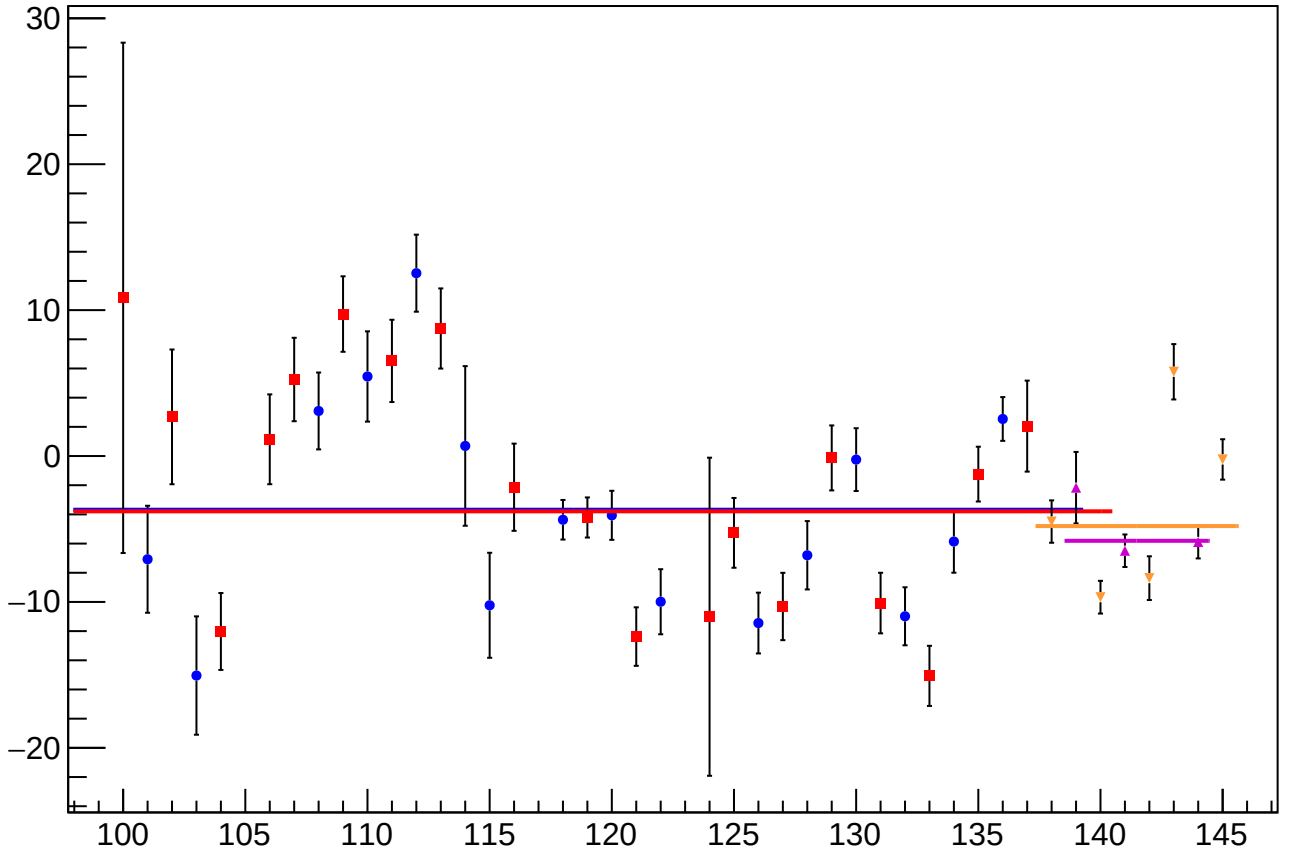
Right: 10.050+/-0.022 $\chi^2$/NDF: 789035.8/34

In: 1.589+/-0.022 $\chi^2$/NDF:585311.4/18

Out: 1.417+/-0.022 $\chi^2$/NDF:1003819.6/23

All: 1.503+/-0.015 $\chi^2$/NDF: 1589161.9/42


reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
−100
−120
100
105
110
115
120
125
130
135
140
145
Right In: -15.438+/-0.539 χ²/NDF: 2124.2/15
Left Out: 21.085+/-0.744 χ²/NDF:2028.3/4
Right Out: -17.848+/-0.530 χ²/NDF: 2125.2/18
Left In: 26.482+/-0.843 χ²/NDF:13.6/2
Left: 23.448+/-0.558 χ²/NDF: 2064.9/7
Right: -16.664+/-0.378 χ²/NDF: 4259.6/34
In: -3.275+/-0.454 χ²/NDF:3892.5/18
Out: -4.756+/-0.431 χ²/NDF:5970.5/23
All: -4.054+/-0.313 χ²/NDF: 9868.6/42




Right In: -3.679+/-0.552 $\chi^2$/NDF: 124.0/15

Left Out: -4.801+/-0.630 $\chi^2$/NDF:66.6/4

Right Out: -3.790+/-0.564 $\chi^2$/NDF: 161.2/18

Left In: -5.810+/-0.755 $\chi^2$/NDF:2.6/2

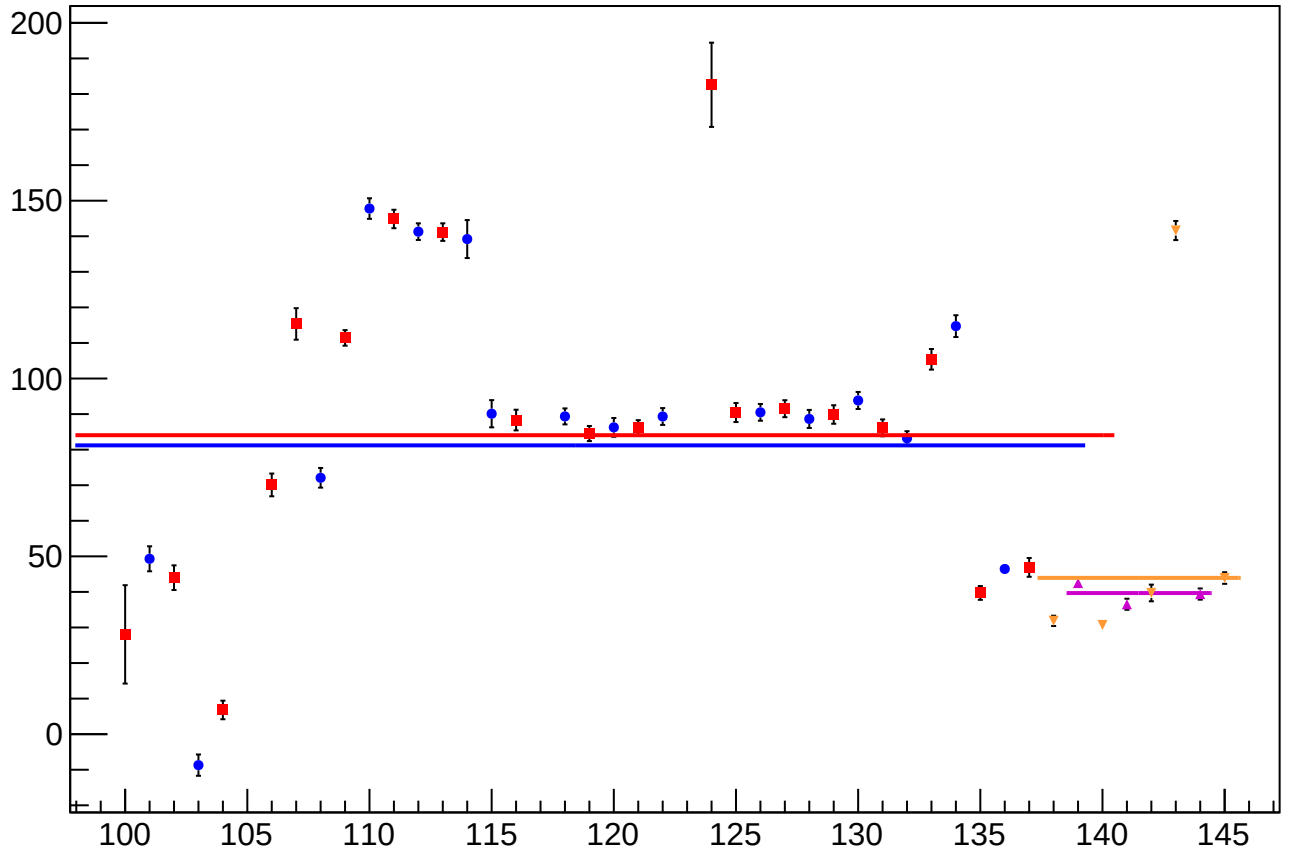
Left: -5.216+/-0.484 $\chi^2$/NDF: 70.2/7

Right: -3.734+/-0.394 $\chi^2$/NDF: 285.2/34

In: -4.422+/-0.446 $\chi^2$/NDF:131.8/18

Out: -4.239+/-0.420 $\chi^2$/NDF:229.2/23

All: -4.325+/-0.306 $\chi^2$/NDF: 361.1/42




Right In: 81.203+/-0.607 $\chi^2$/NDF: 3230.5/15

Left Out: 43.951+/-0.767 $\chi^2$/NDF:1486.8/4

Right Out: 84.065+/-0.616 $\chi^2$/NDF: 3206.5/18

Left In: 39.677+/-0.871 $\chi^2$/NDF:8.1/2

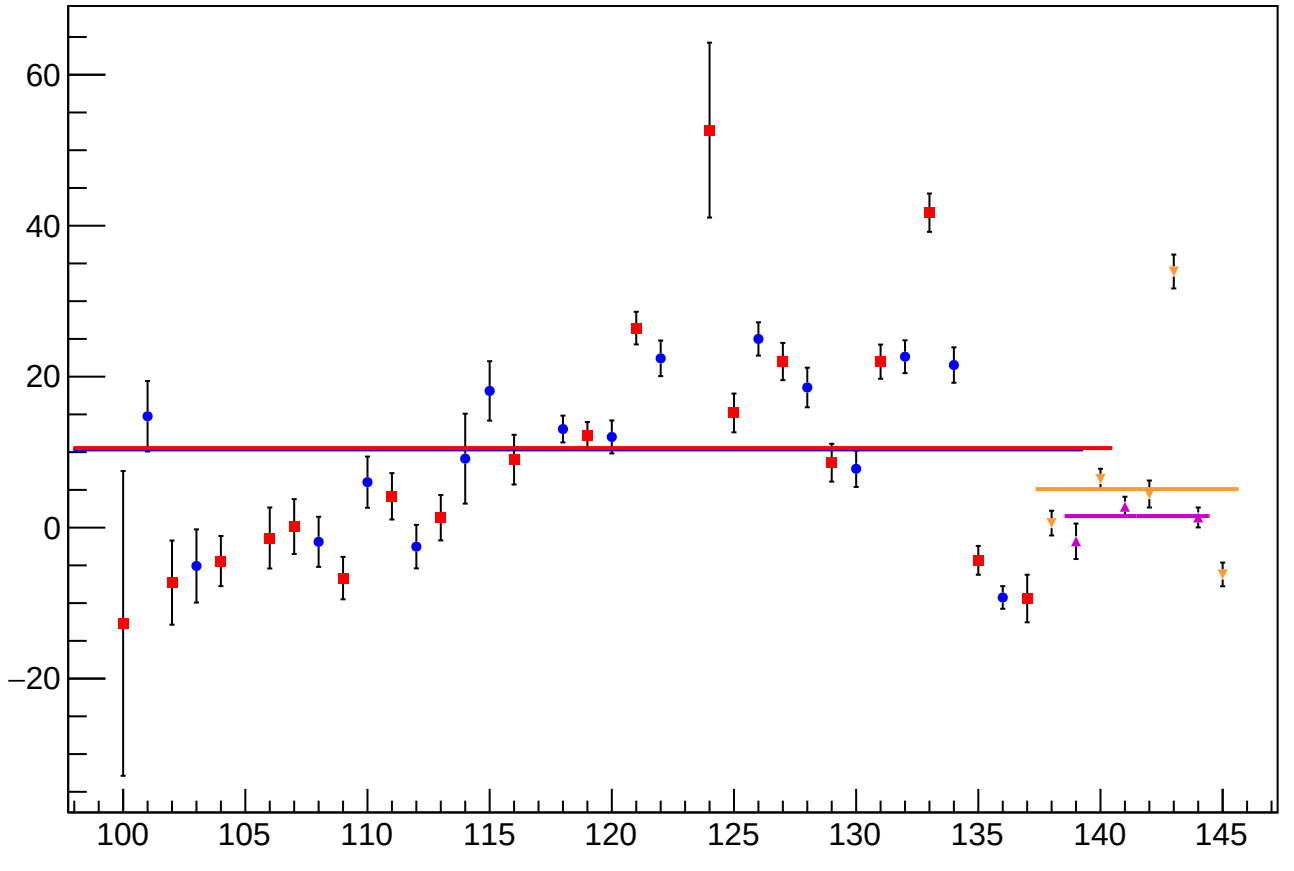
Left: 42.085+/-0.576 $\chi^2$/NDF: 1508.5/7

Right: 82.612+/-0.432 $\chi^2$/NDF: 6447.9/34

In: 67.630+/-0.498 $\chi^2$/NDF:4768.1/18

Out: 68.328+/-0.480 $\chi^2$/NDF:6355.4/23

All: 67.992+/-0.346 $\chi^2$/NDF: 11124.5/42




Right In: 10.367+/-0.627 $\chi^2$/NDF: 359.8/15

Left Out: 5.106+/-0.735 $\chi^2$/NDF:226.2/4

Right Out: 10.539+/-0.640 $\chi^2$/NDF: 470.7/18

Left In: 1.531+/-0.869 $\chi^2$/NDF:2.9/2

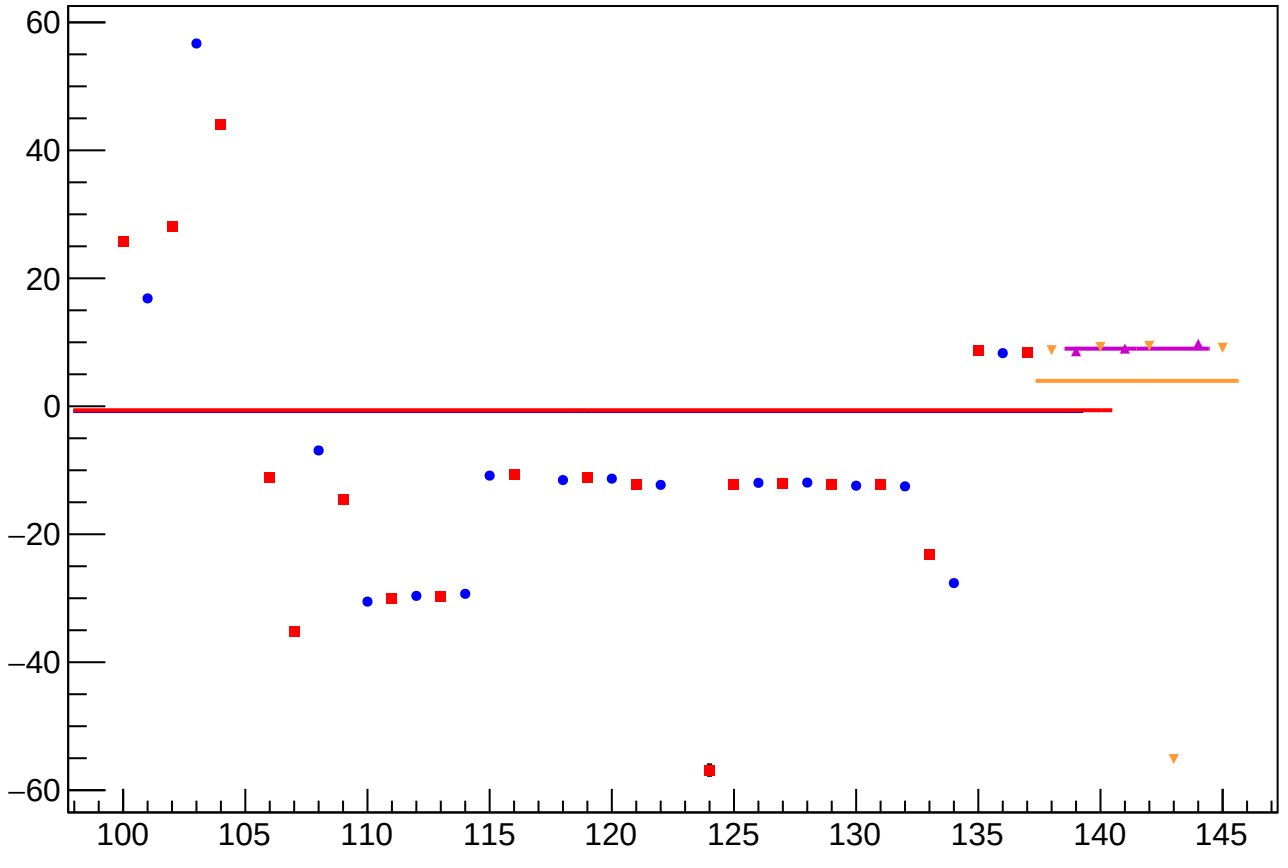
Left: 3.613+/-0.561 $\chi^2$/NDF: 238.9/7

Right: 10.451+/-0.448 $\chi^2$/NDF: 830.5/34

In: 7.343+/-0.508 $\chi^2$/NDF:430.8/18

Out: 8.197+/-0.483 $\chi^2$/NDF:727.9/23

All: 7.791+/-0.350 $\chi^2$/NDF: 1160.2/42




Right In: -0.745+/-0.036 $\chi^2$/NDF: 367993.9/15

Left Out: 3.980+/-0.032 $\chi^2$/NDF:304062.5/4

Right Out: -0.618+/-0.037 $\chi^2$/NDF: 316492.6/18

Left In: 9.007+/-0.034 $\chi^2$/NDF:184.6/2

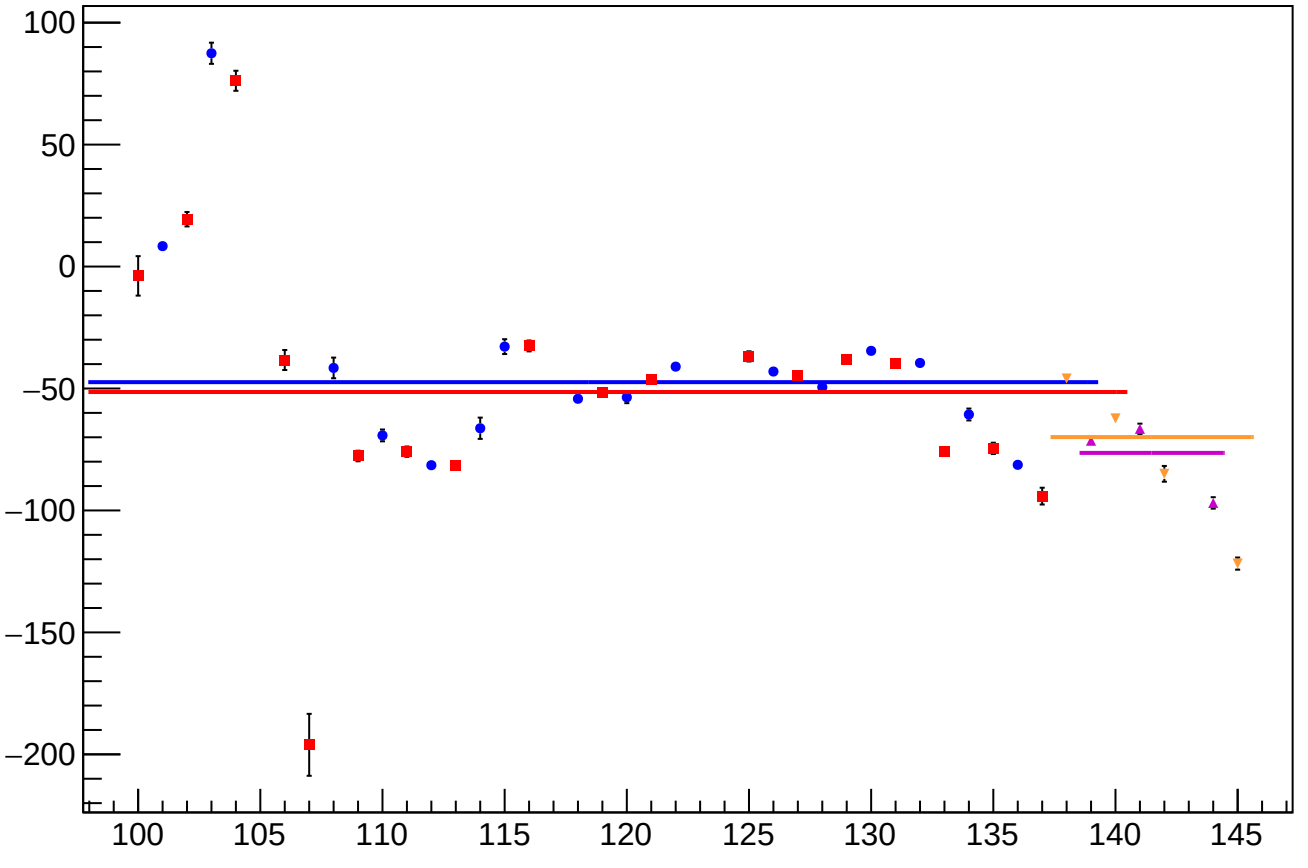
Left: 6.272+/-0.023 $\chi^2$/NDF: 315844.8/7

Right: -0.684+/-0.026 $\chi^2$/NDF: 684492.5/34

In: 4.331+/-0.025 $\chi^2$/NDF:406633.3/18

Out: 2.066+/-0.024 $\chi^2$/NDF:629410.9/23

All: 3.164+/-0.017 $\chi^2$/NDF: 1040329.0/42




Right In: -47.398+/-0.535 $\chi^2$/NDF: 2769.0/15

Left Out: -69.916+/-1.079 $\chi^2$/NDF:653.9/3

Right Out: -51.442+/-0.545 $\chi^2$/NDF: 2872.7/17

Left In: -76.400+/-1.185 $\chi^2$/NDF:106.1/2

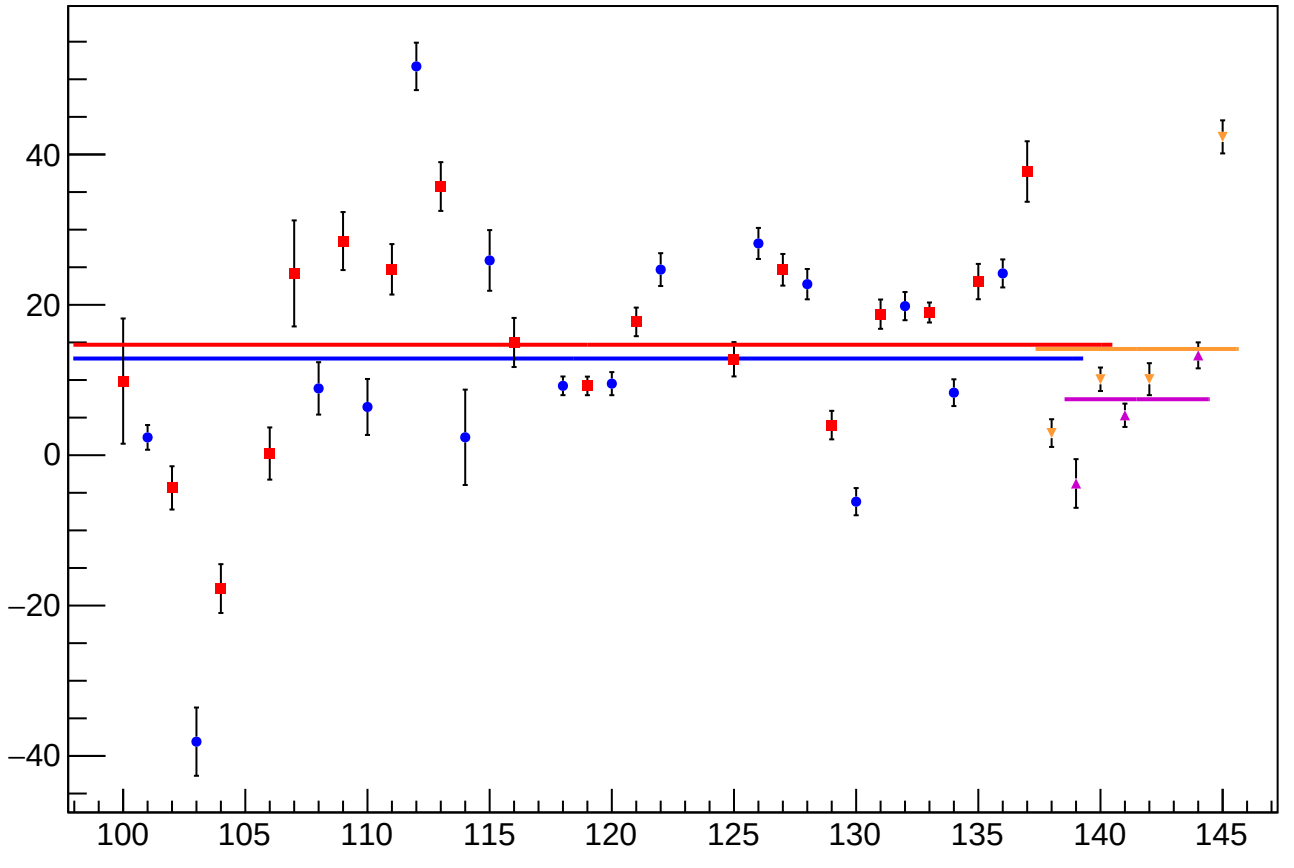
Left: -72.856+/-0.798 $\chi^2$/NDF: 776.4/6

Right: -49.383+/-0.382 $\chi^2$/NDF: 5669.8/33

In: -52.309+/-0.488 $\chi^2$/NDF:3372.5/18

Out: -55.198+/-0.487 $\chi^2$/NDF:3760.1/21

All: -53.756+/-0.344 $\chi^2$/NDF: 7150.1/40




Right In: 12.860+/-0.519 $\chi^2$/NDF: 625.5/15

Left Out: 14.131+/-0.940 $\chi^2$/NDF:211.6/3

Right Out: 14.691+/-0.544 $\chi^2$/NDF: 364.1/17

Left In: 7.445+/-1.087 $\chi^2$/NDF:25.3/2

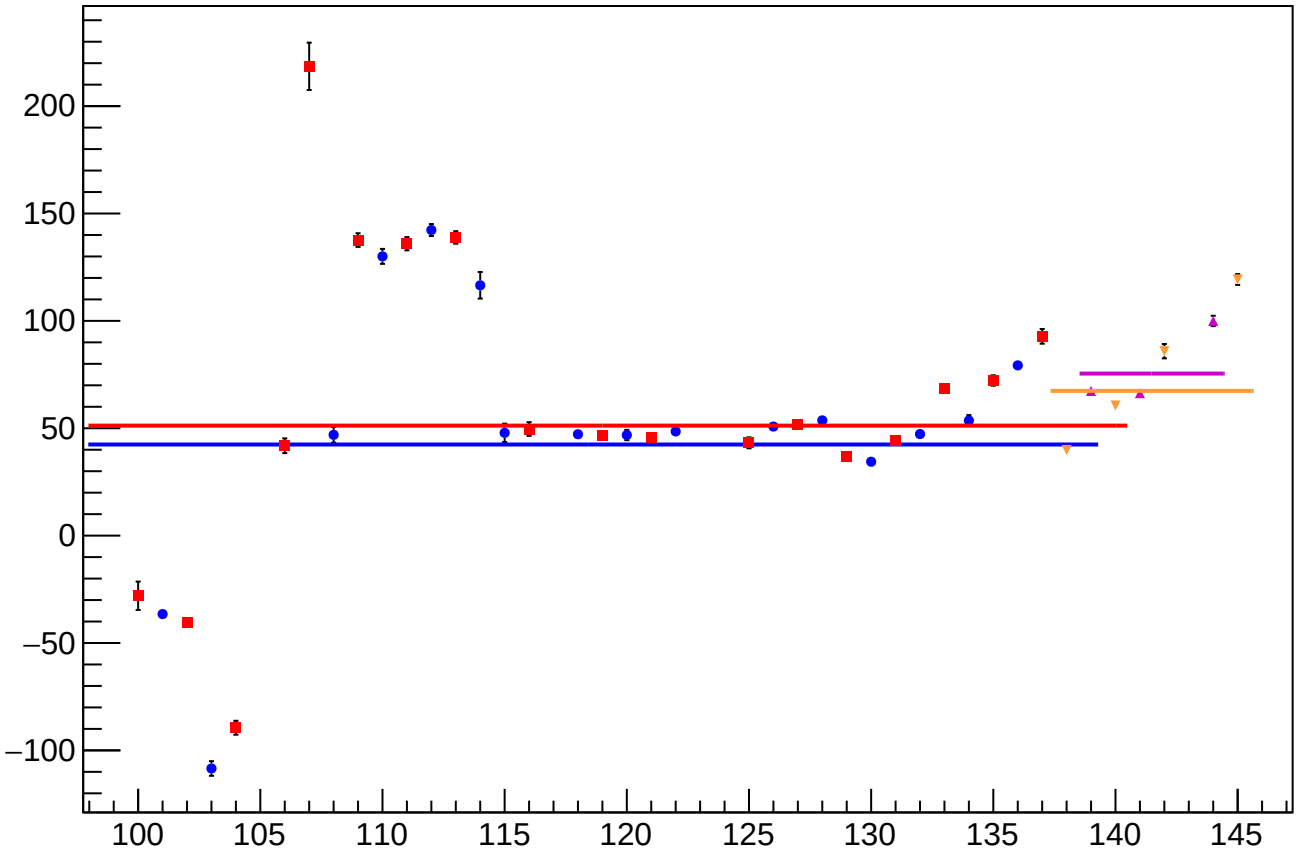
Left: 11.268+/-0.711 $\chi^2$/NDF: 258.5/6

Right: 13.731+/-0.375 $\chi^2$/NDF: 995.5/33

In: 11.855+/-0.468 $\chi^2$/NDF:671.0/18

Out: 14.550+/-0.471 $\chi^2$/NDF:576.0/21

All: 13.194+/-0.332 $\chi^2$/NDF: 1263.4/40




Right In: 42.437+/-0.584 $\chi^2$/NDF: 7168.9/15

Left Out: 67.412+/-1.113 $\chi^2$/NDF:687.9/3

Right Out: 51.226+/-0.615 $\chi^2$/NDF: 6611.3/17

Left In: 75.467+/-1.226 $\chi^2$/NDF:139.4/2

Left: 71.051+/-0.824 $\chi^2$/NDF: 851.0/6

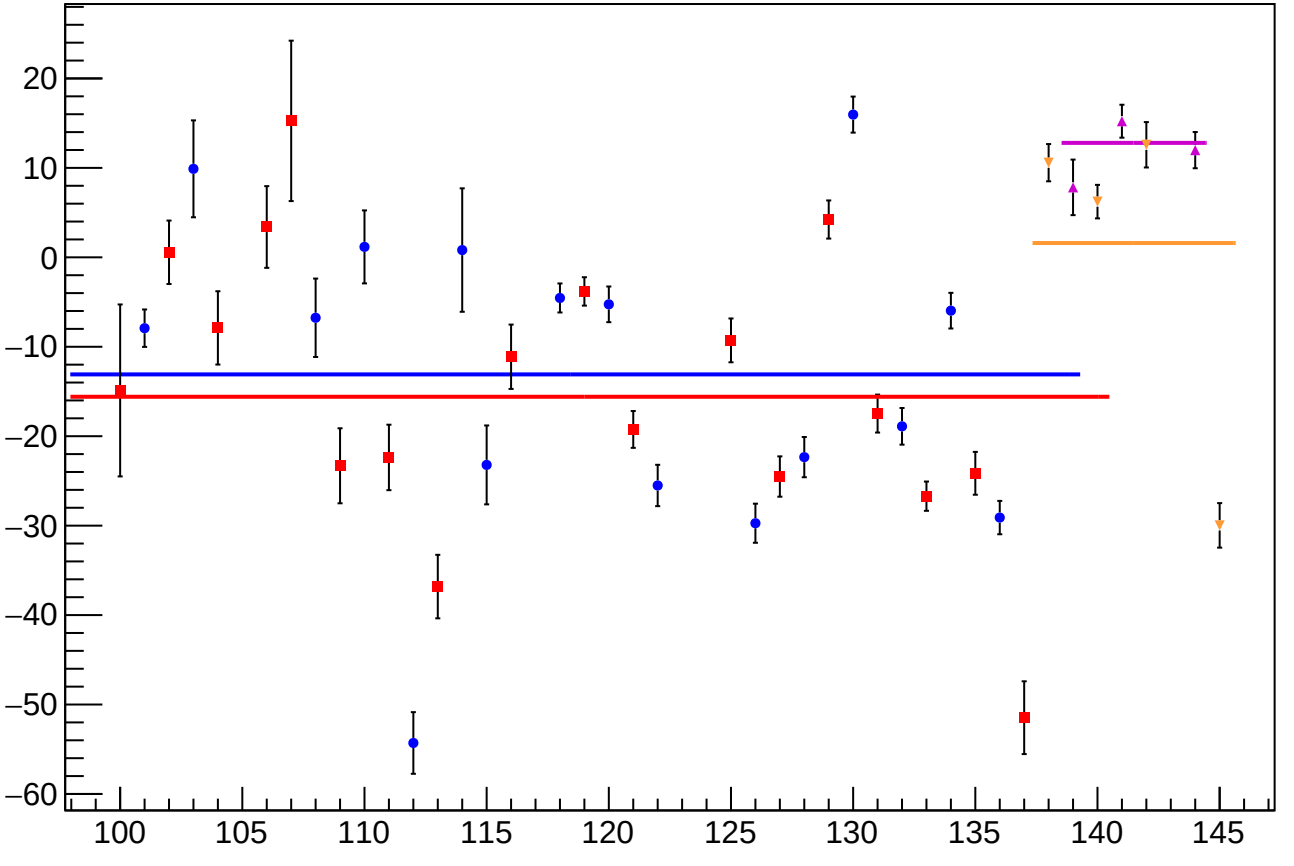
Right: 46.608+/-0.424 $\chi^2$/NDF: 13887.6/33

In: 48.554+/-0.527 $\chi^2$/NDF:7900.1/18

Out: 55.012+/-0.538 $\chi^2$/NDF:7461.3/21

All: 51.718+/-0.377 $\chi^2$/NDF: 15434.8/40

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -13.090+/-0.600 $\chi^2$/NDF: 639.9/15

Left Out: 1.599+/-1.097 $\chi^2$/NDF:204.2/3

Right Out: -15.589+/-0.627 $\chi^2$/NDF: 401.8/17

Left In: 12.797+/-1.248 $\chi^2$/NDF:4.5/2

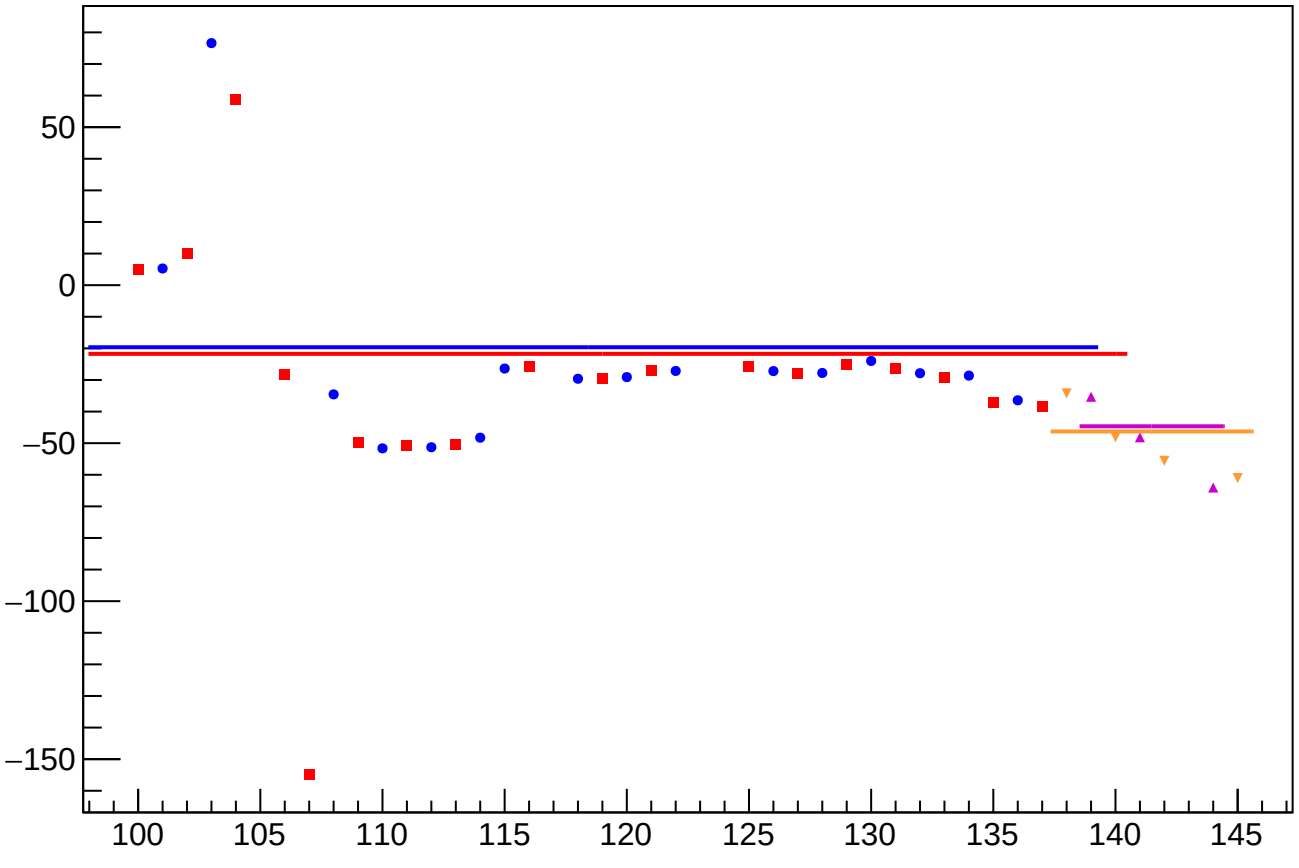
Left: 6.479+/-0.824 $\chi^2$/NDF: 254.1/6

Right: -14.285+/-0.433 $\chi^2$/NDF: 1050.0/33

In: -8.231+/-0.541 $\chi^2$/NDF:994.1/18

Out: -11.356+/-0.544 $\chi^2$/NDF:791.2/21

All: -9.783+/-0.383 $\chi^2$/NDF: 1801.9/40




Right In: -19.644+/-0.036 $\chi^2$/NDF: 646925.7/15

Left Out: -46.295+/-0.046 $\chi^2$/NDF:54133.9/3

Right Out: -21.730+/-0.039 $\chi^2$/NDF: 546659.9/17

Left In: -44.658+/-0.048 $\chi^2$/NDF:53086.5/2

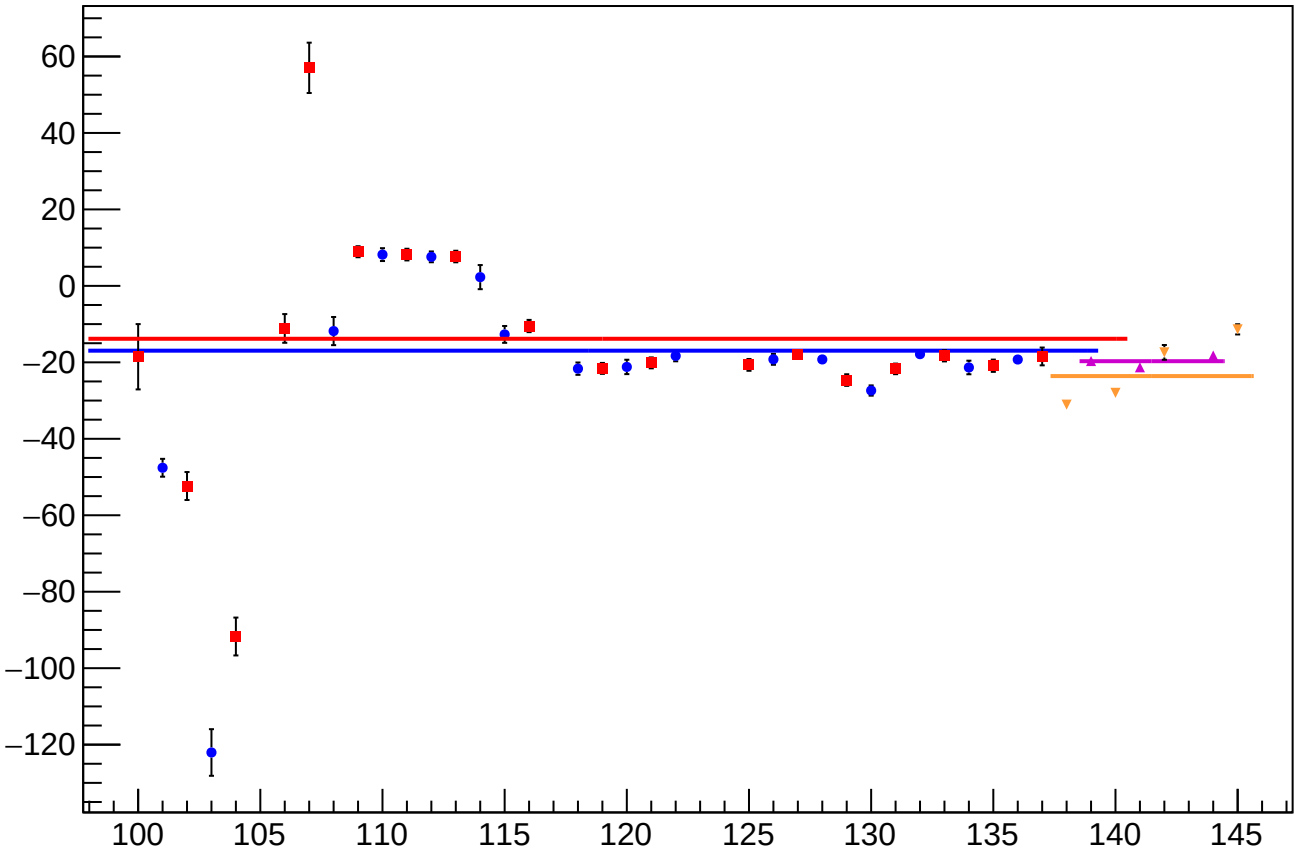
Left: -45.513+/-0.033 $\chi^2$/NDF: 107831.0/6

Right: -20.610+/-0.026 $\chi^2$/NDF: 1195130.0/33

In: -28.710+/-0.029 $\chi^2$/NDF:873922.0/18

Out: -32.026+/-0.030 $\chi^2$/NDF:768041.3/21

All: -30.322+/-0.021 $\chi^2$/NDF: 1648394.3/40




Right In: -16.949+/-0.404 $\chi^2$/NDF: 1128.2/15

Left Out: -23.593+/-0.662 $\chi^2$/NDF:147.5/3

Right Out: -13.837+/-0.409 $\chi^2$/NDF: 1333.2/17

Left In: -19.700+/-0.718 $\chi^2$/NDF:2.9/2

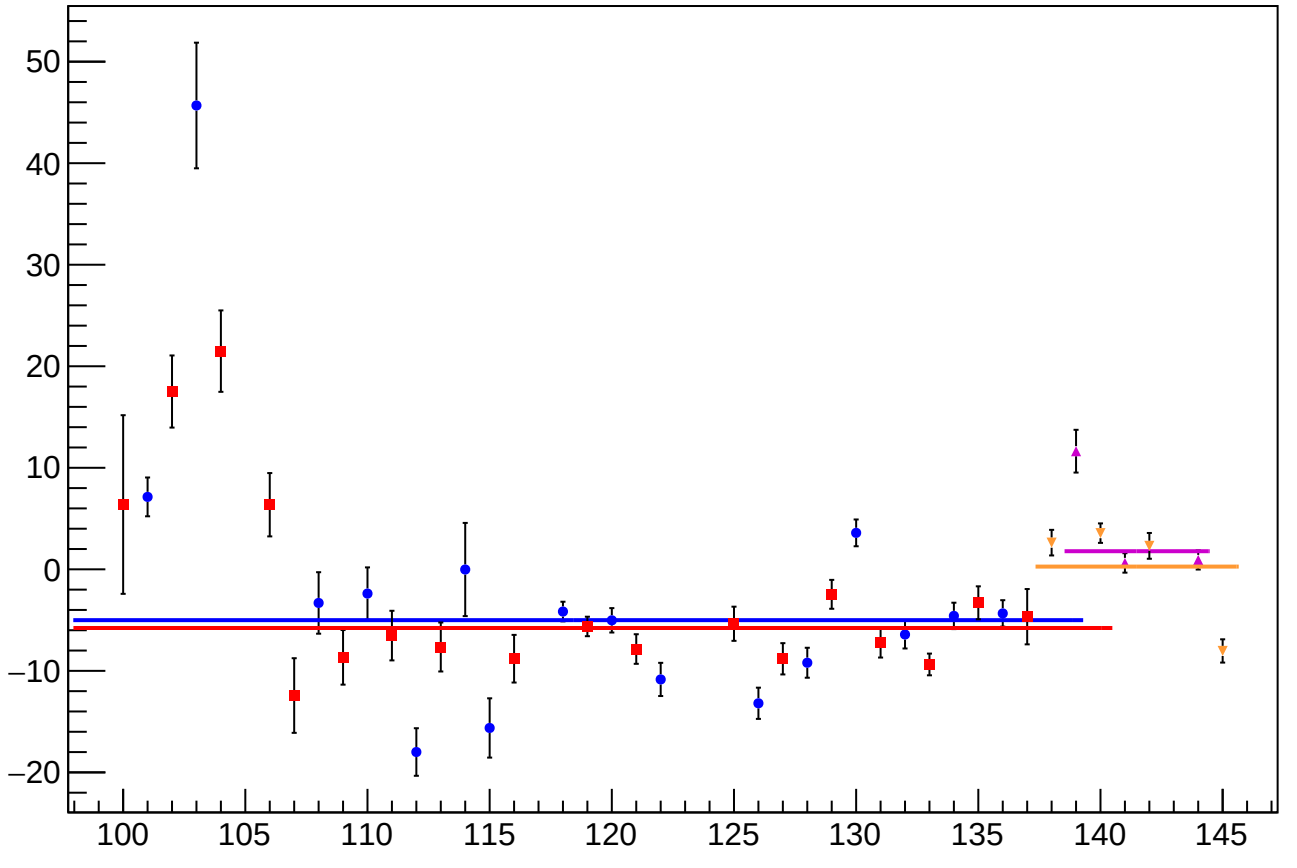
Left: -21.806+/-0.487 $\chi^2$/NDF: 166.2/6

Right: -15.414+/-0.287 $\chi^2$/NDF: 2490.7/33

In: -17.610+/-0.352 $\chi^2$/NDF:1142.2/18

Out: -16.536+/-0.348 $\chi^2$/NDF:1637.9/21

All: -17.067+/-0.247 $\chi^2$/NDF: 2784.9/40




Right In: -5.006+/-0.401 $\chi^2$/NDF: 247.8/15

Left Out: 0.270+/-0.568 $\chi^2$/NDF:70.4/3

Right Out: -5.779+/-0.419 $\chi^2$/NDF: 139.3/17

Left In: 1.784+/-0.641 $\chi^2$/NDF:24.2/2

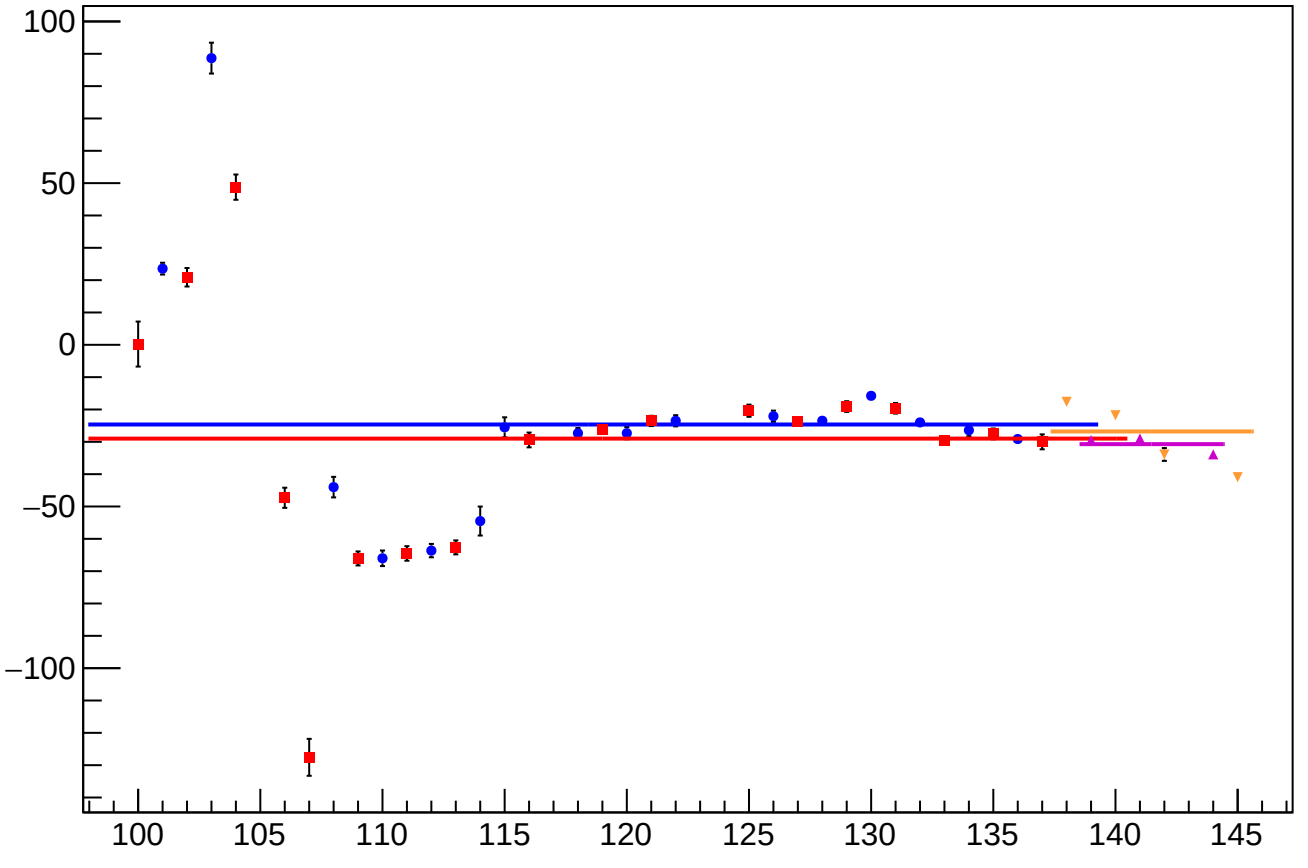
Left: 0.937+/-0.425 $\chi^2$/NDF: 97.7/6

Right: -5.375+/-0.290 $\chi^2$/NDF: 388.9/33

In: -3.092+/-0.340 $\chi^2$/NDF:352.6/18

Out: -3.646+/-0.337 $\chi^2$/NDF:283.1/21

All: -3.371+/-0.240 $\chi^2$/NDF: 637.0/40




Right In: -24.641+/-0.455 $\chi^2$/NDF: 2051.8/15

Left Out: -26.794+/-0.682 $\chi^2$/NDF:192.2/3

Right Out: -29.002+/-0.475 $\chi^2$/NDF: 1952.3/17

Left In: -30.716+/-0.742 $\chi^2$/NDF:8.5/2

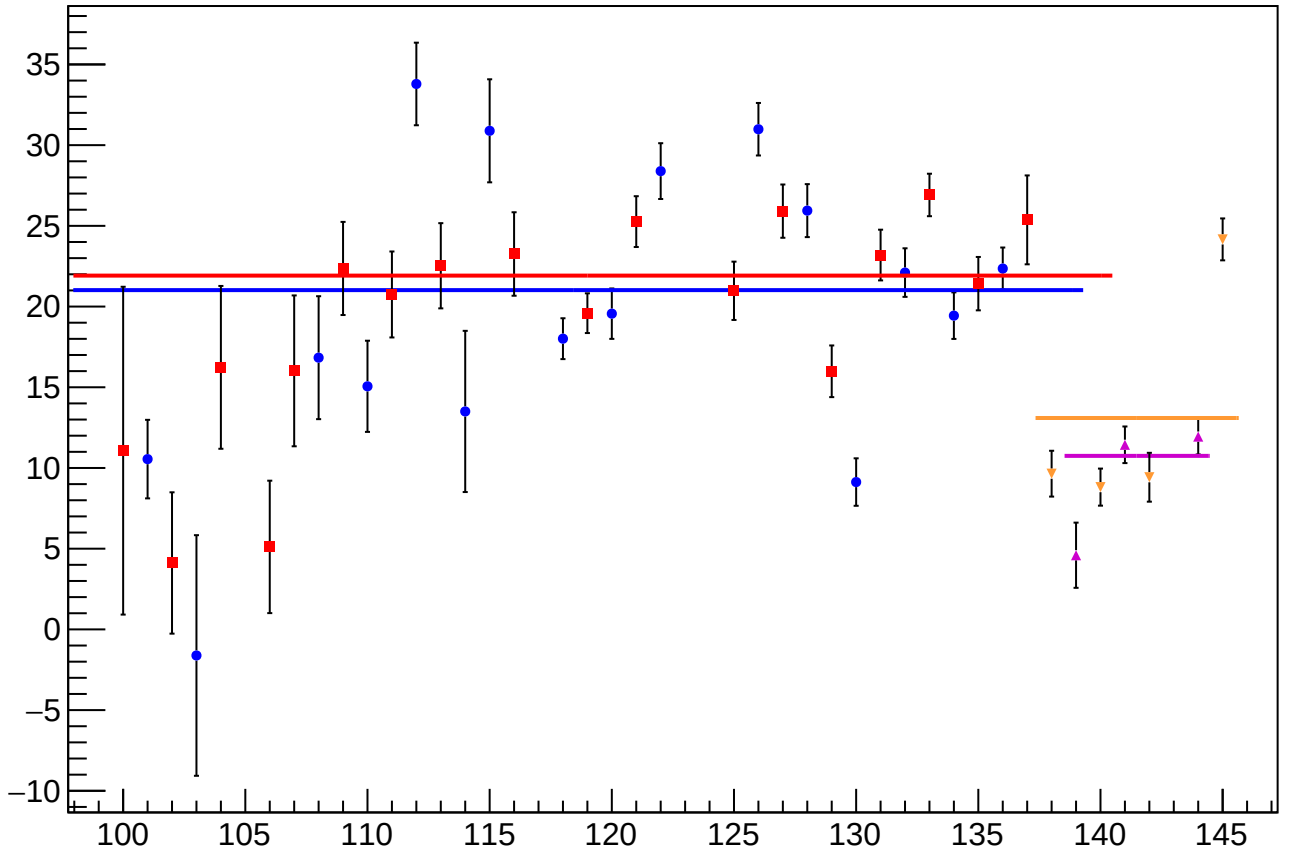
Left: -28.591+/-0.502 $\chi^2$/NDF: 215.8/6

Right: -26.727+/-0.329 $\chi^2$/NDF: 4048.0/33

In: -26.300+/-0.388 $\chi^2$/NDF:2109.1/18

Out: -28.281+/-0.390 $\chi^2$/NDF:2151.5/21

All: -27.285+/-0.275 $\chi^2$/NDF: 4273.5/40




Right In: 21.019+/-0.458 $\chi^2$/NDF: 209.6/15

Left Out: 13.096+/-0.662 $\chi^2$/NDF:98.3/3

Right Out: 21.918+/-0.478 $\chi^2$/NDF: 82.5/17

Left In: 10.750+/-0.737 $\chi^2$/NDF:10.8/2

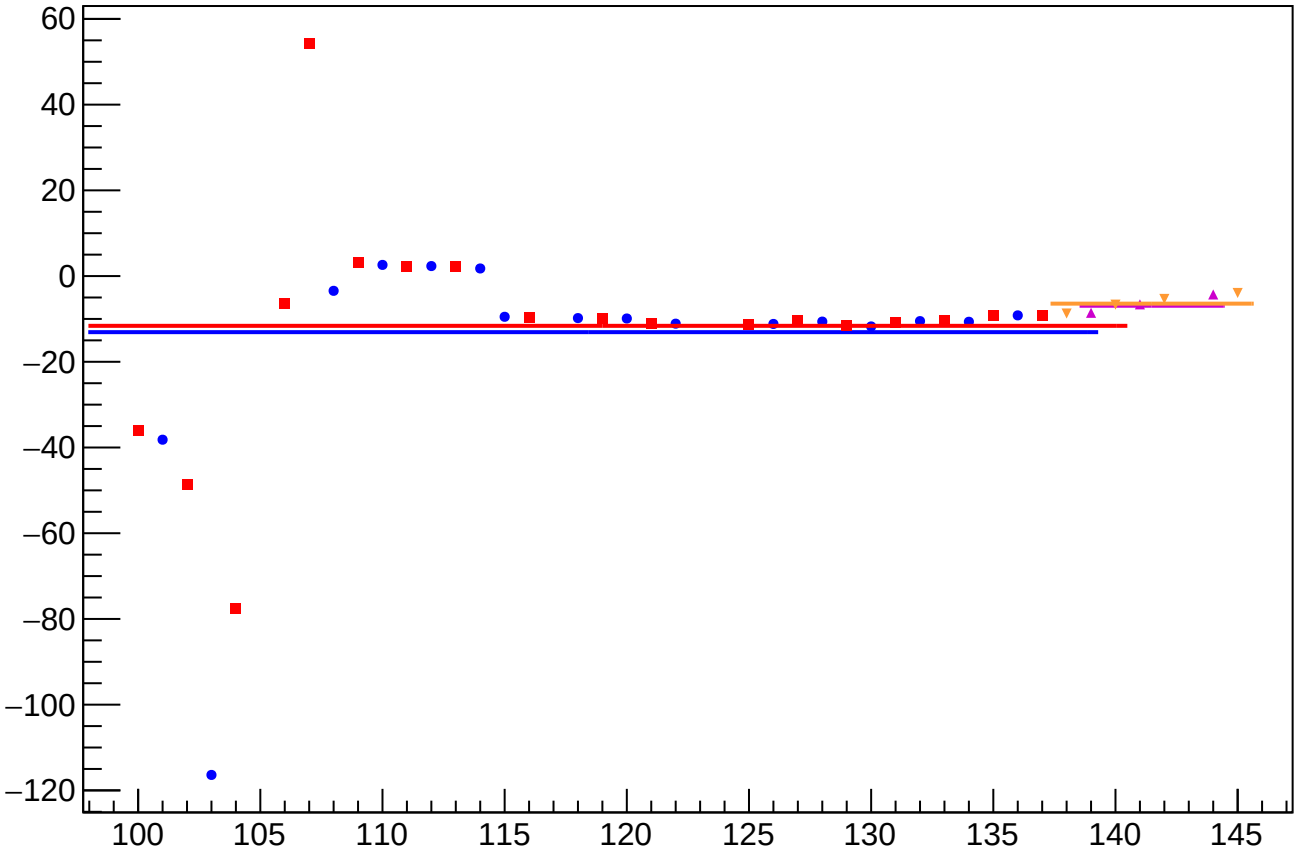
Left: 12.050+/-0.492 $\chi^2$/NDF: 114.7/6

Right: 21.449+/-0.331 $\chi^2$/NDF: 294.0/33

In: 18.159+/-0.389 $\chi^2$/NDF:360.3/18

Out: 18.889+/-0.388 $\chi^2$/NDF:297.6/21

All: 18.525+/-0.275 $\chi^2$/NDF: 659.7/40




Right In: -13.086+/-0.028 $\chi^2$/NDF: 344941.2/15

Left Out: -6.434+/-0.028 $\chi^2$/NDF:4531.2/3

Right Out: -11.610+/-0.031 $\chi^2$/NDF: 314183.9/17

Left In: -6.922+/-0.029 $\chi^2$/NDF:3473.2/2

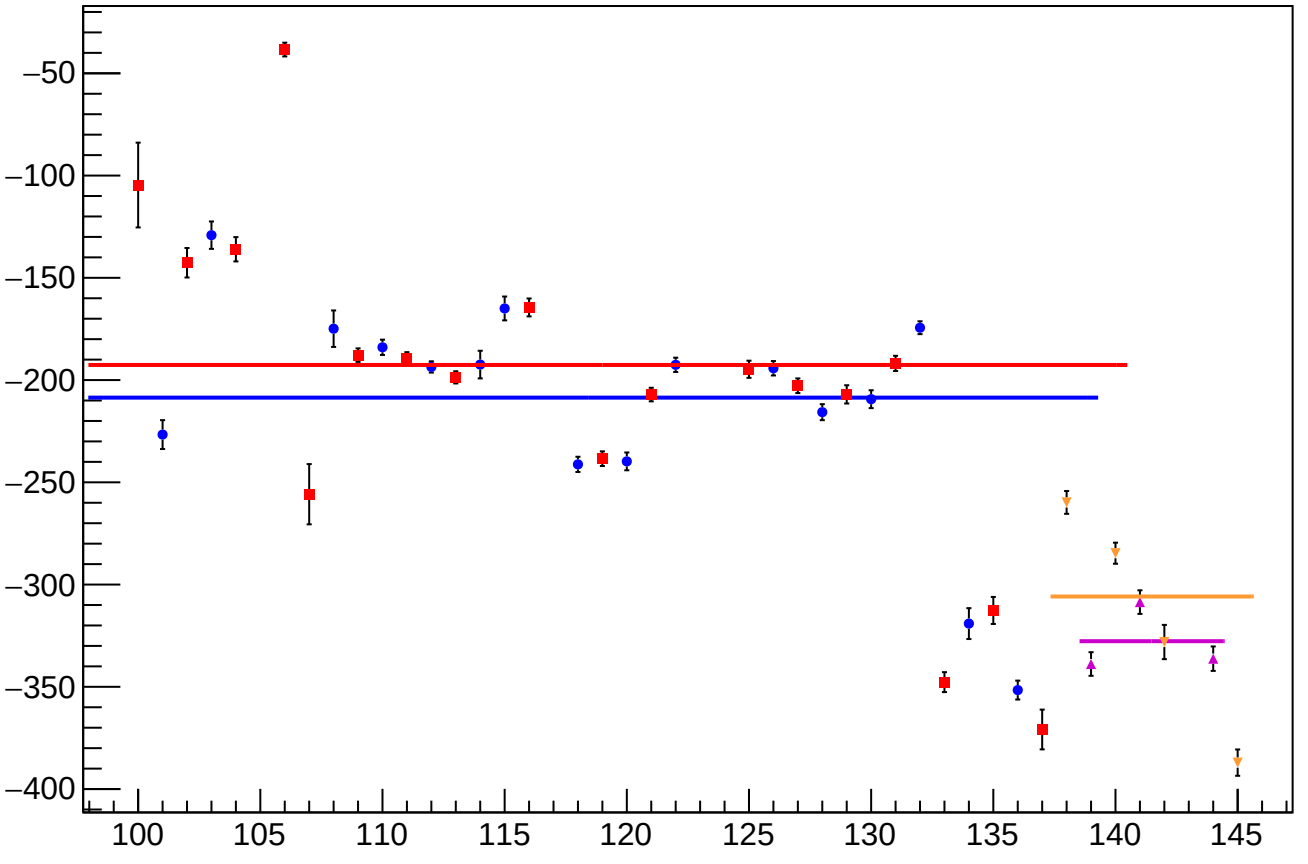
Left: -6.666+/-0.020 $\chi^2$/NDF: 8149.3/6

Right: -12.409+/-0.021 $\chi^2$/NDF: 660362.1/33

In: -10.109+/-0.020 $\chi^2$/NDF:371152.7/18

Out: -8.769+/-0.021 $\chi^2$/NDF:334124.6/21

All: -9.450+/-0.015 $\chi^2$/NDF: 707393.1/40




Right In: -208.586+/-1.067 $\chi^2$/NDF: 1751.1/15

Left Out: -305.838+/-3.041 $\chi^2$/NDF:251.0/3

Right Out: -192.617+/-0.999 $\chi^2$/NDF: 4207.1/17

Left In: -327.690+/-3.372 $\chi^2$/NDF:16.7/2

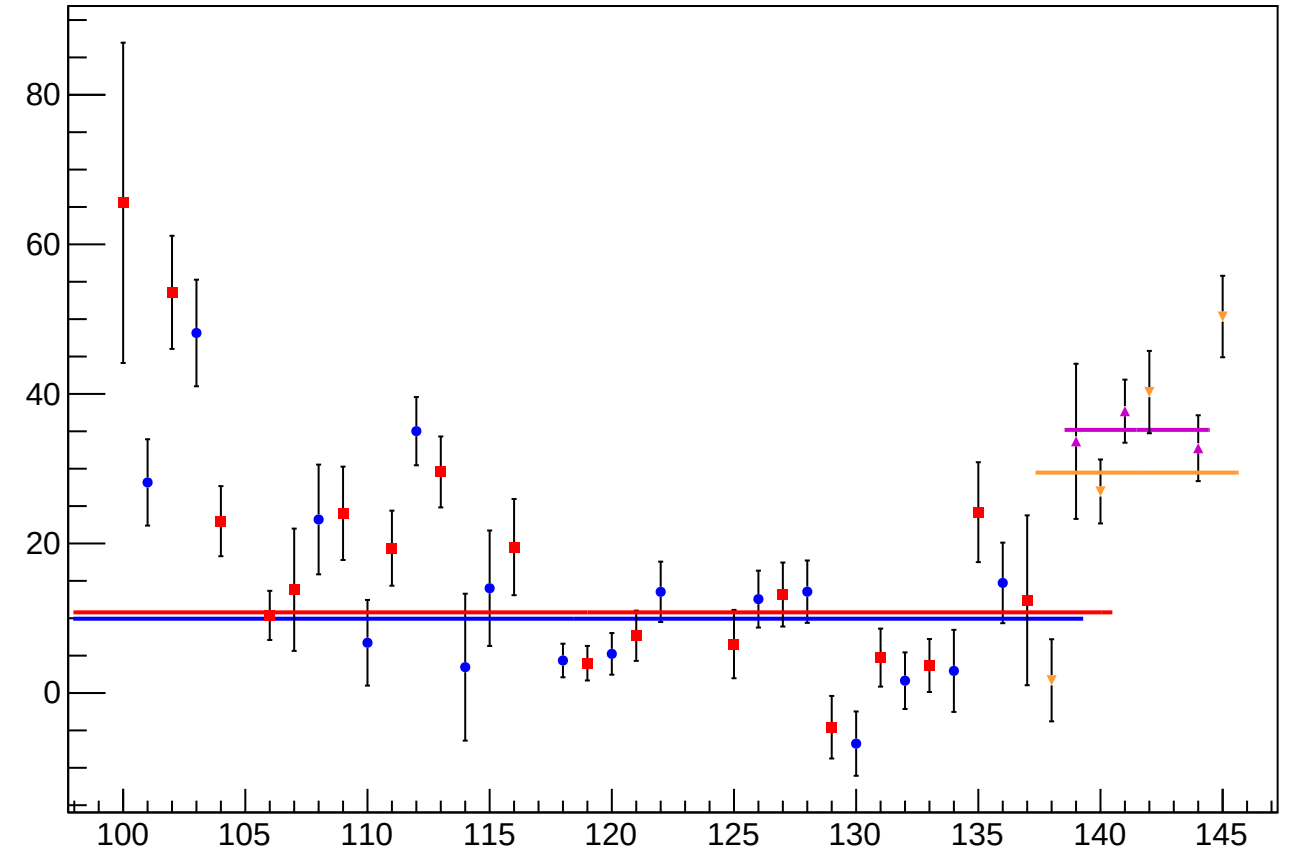
Left: -315.638+/-2.258 $\chi^2$/NDF: 290.9/6

Right: -200.079+/-0.729 $\chi^2$/NDF: 6077.7/33

In: -219.418+/-1.017 $\chi^2$/NDF:2902.1/18

Out: -203.645+/-0.949 $\chi^2$/NDF:5709.5/21

All: -210.987+/-0.694 $\chi^2$/NDF: 8740.2/40




Right In: 9.938+/-1.065 $\chi^2$/NDF: 106.6/15

Left Out: 29.478+/-2.544 $\chi^2$/NDF:44.4/3

Right Out: 10.788+/-1.044 $\chi^2$/NDF: 105.1/17

Left In: 35.191+/-2.922 $\chi^2$/NDF:0.7/2

Left: 31.942+/-1.919 $\chi^2$/NDF: 47.3/6

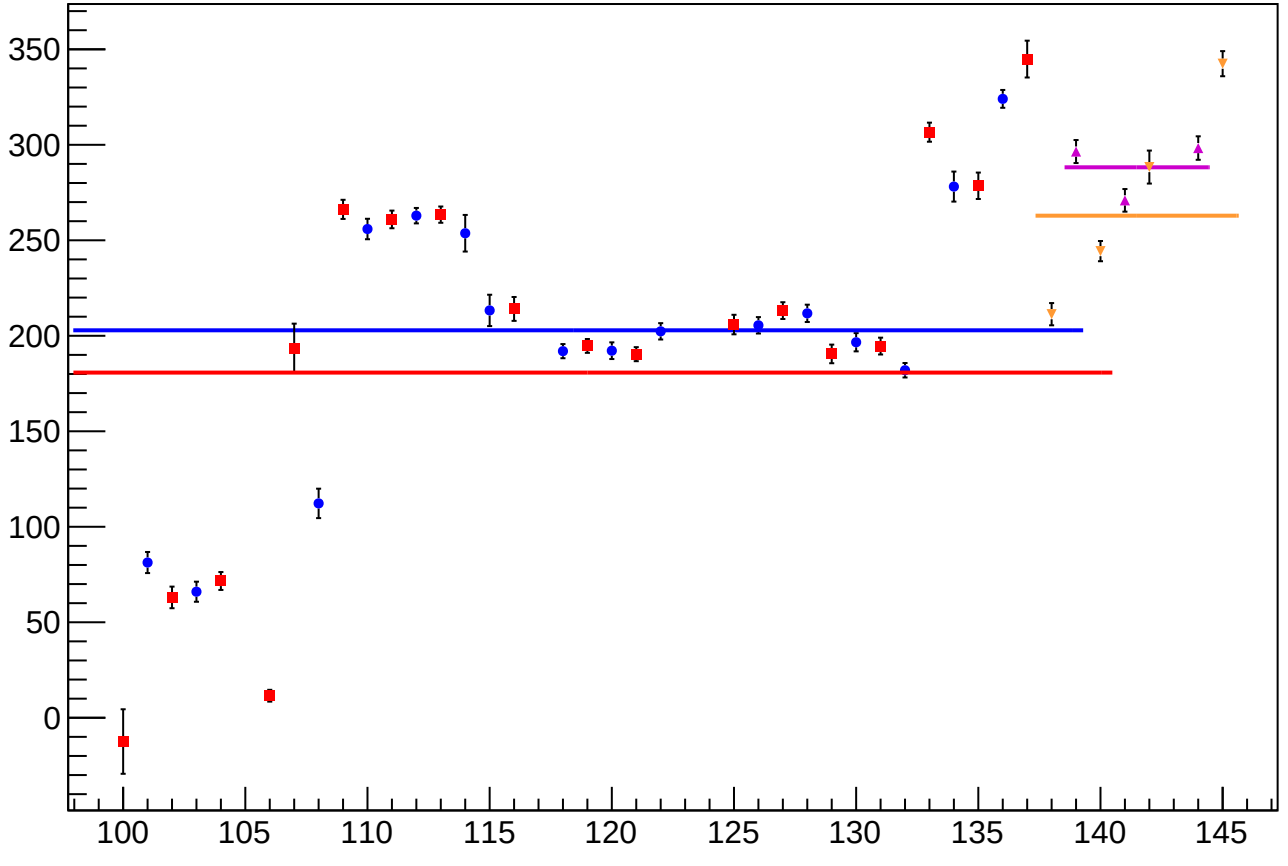
Right: 10.372+/-0.746 $\chi^2$/NDF: 212.0/33

In: 12.902+/-1.001 $\chi^2$/NDF:173.2/18

Out: 13.480+/-0.965 $\chi^2$/NDF:195.7/21

All: 13.201+/-0.695 $\chi^2$/NDF: 369.0/40

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 202.874+/-1.226 $\chi^2$/NDF: 2464.2/15

Left Out: 262.891+/-3.136 $\chi^2$/NDF:246.0/3

Right Out: 180.731+/-1.144 $\chi^2$/NDF: 6347.9/17

Left In: 288.222+/-3.482 $\chi^2$/NDF:13.1/2

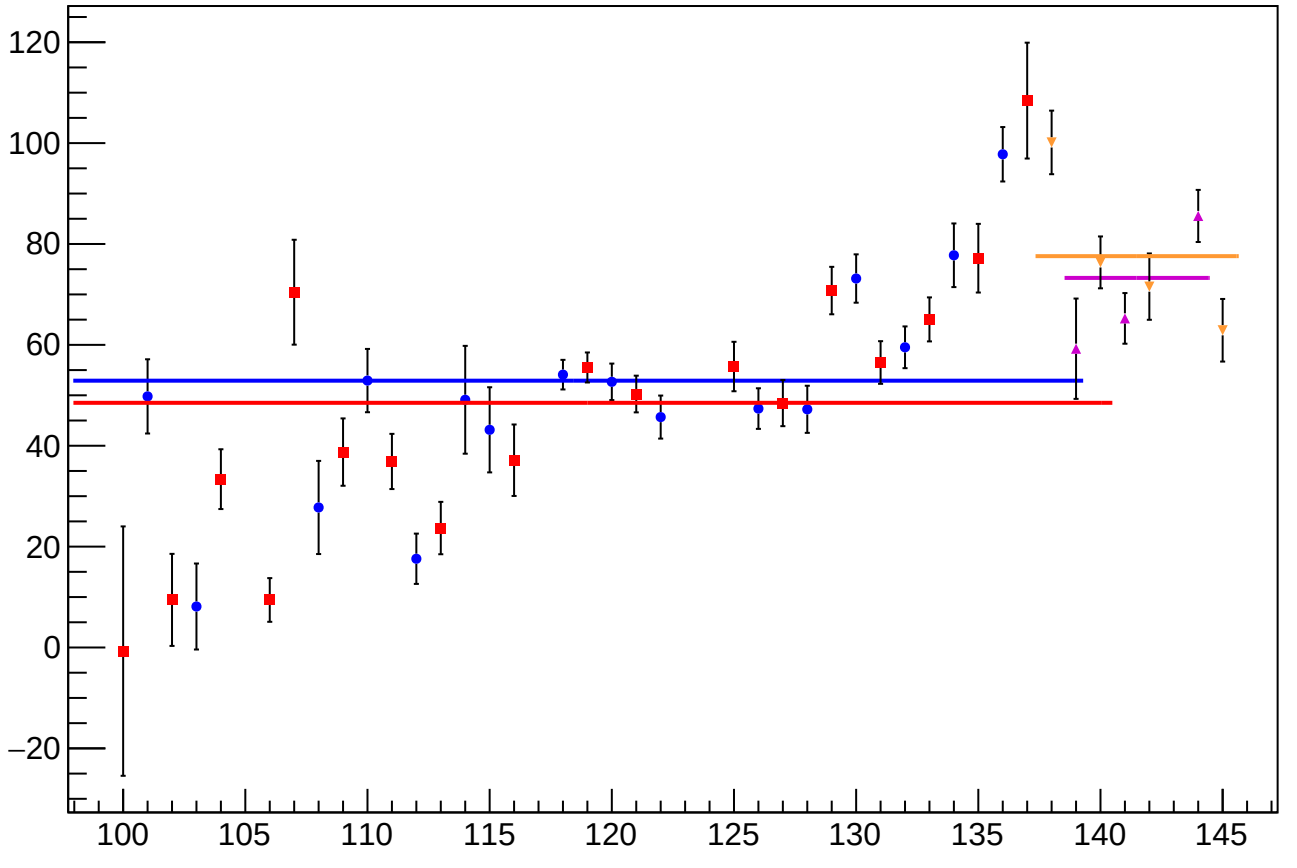
Left: 274.234+/-2.330 $\chi^2$/NDF: 288.3/6

Right: 191.037+/-0.836 $\chi^2$/NDF: 8986.6/33

In: 212.280+/-1.156 $\chi^2$/NDF:3011.8/18

Out: 190.375+/-1.074 $\chi^2$/NDF:7199.7/21

All: 200.527+/-0.787 $\chi^2$/NDF: 10404.2/40




Right In: 52.899+/-1.242 $\chi^2$/NDF: 198.3/15

Left Out: 77.588+/-2.987 $\chi^2$/NDF:19.3/3

Right Out: 48.510+/-1.214 $\chi^2$/NDF: 240.0/17

Left In: 73.273+/-3.386 $\chi^2$/NDF:10.2/2

Left: 75.699+/-2.240 $\chi^2$/NDF: 30.4/6

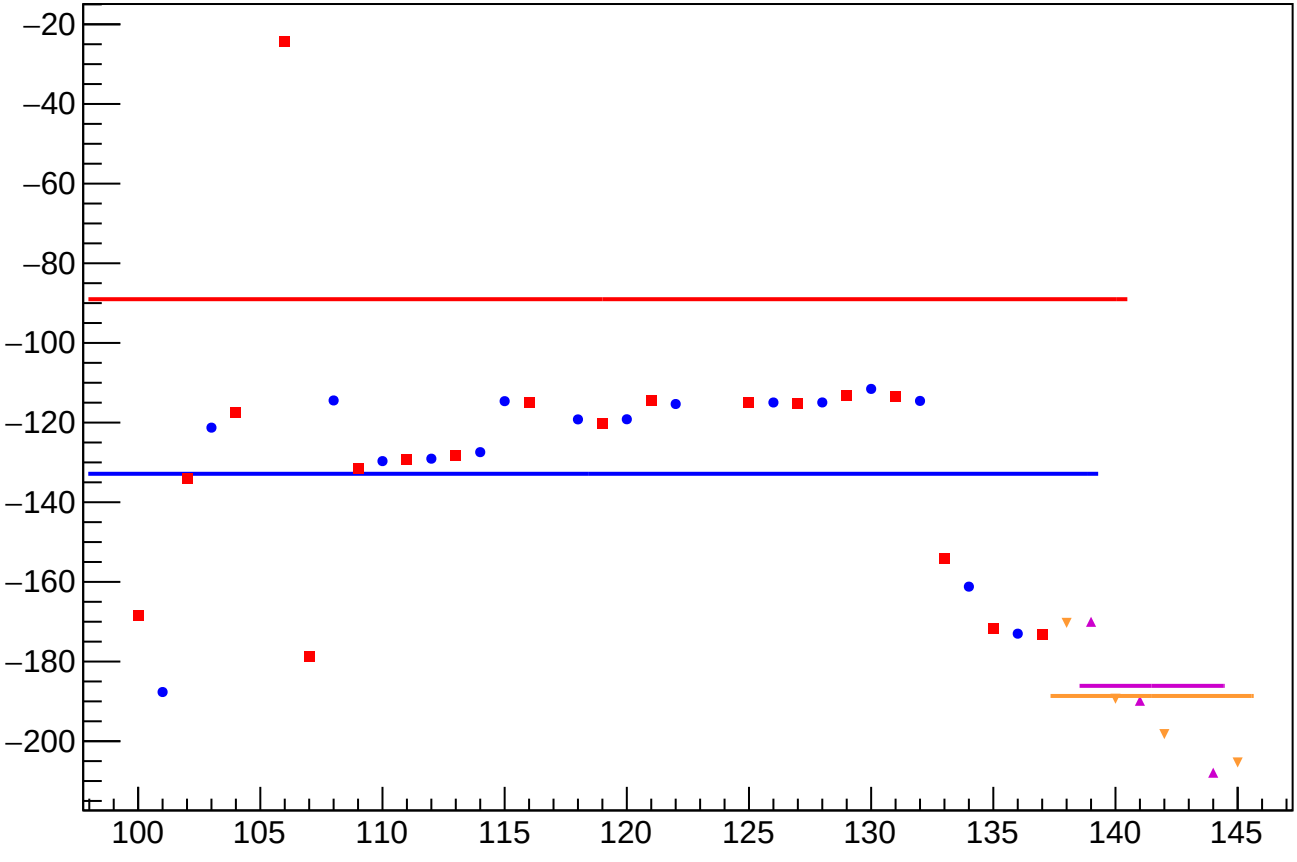
Right: 50.656+/-0.868 $\chi^2$/NDF: 444.7/33

In: 55.314+/-1.166 $\chi^2$/NDF:240.4/18

Out: 52.634+/-1.125 $\chi^2$/NDF:340.6/21

All: 53.926+/-0.809 $\chi^2$/NDF: 583.8/40

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: -188.640+/-0.130 $\chi^2$/NDF:10993.8/3

Right Out: -89.020+/-0.064 $\chi^2$/NDF: 728110.1/17

Left In: -186.102+/-0.139 $\chi^2$/NDF:12121.7/2

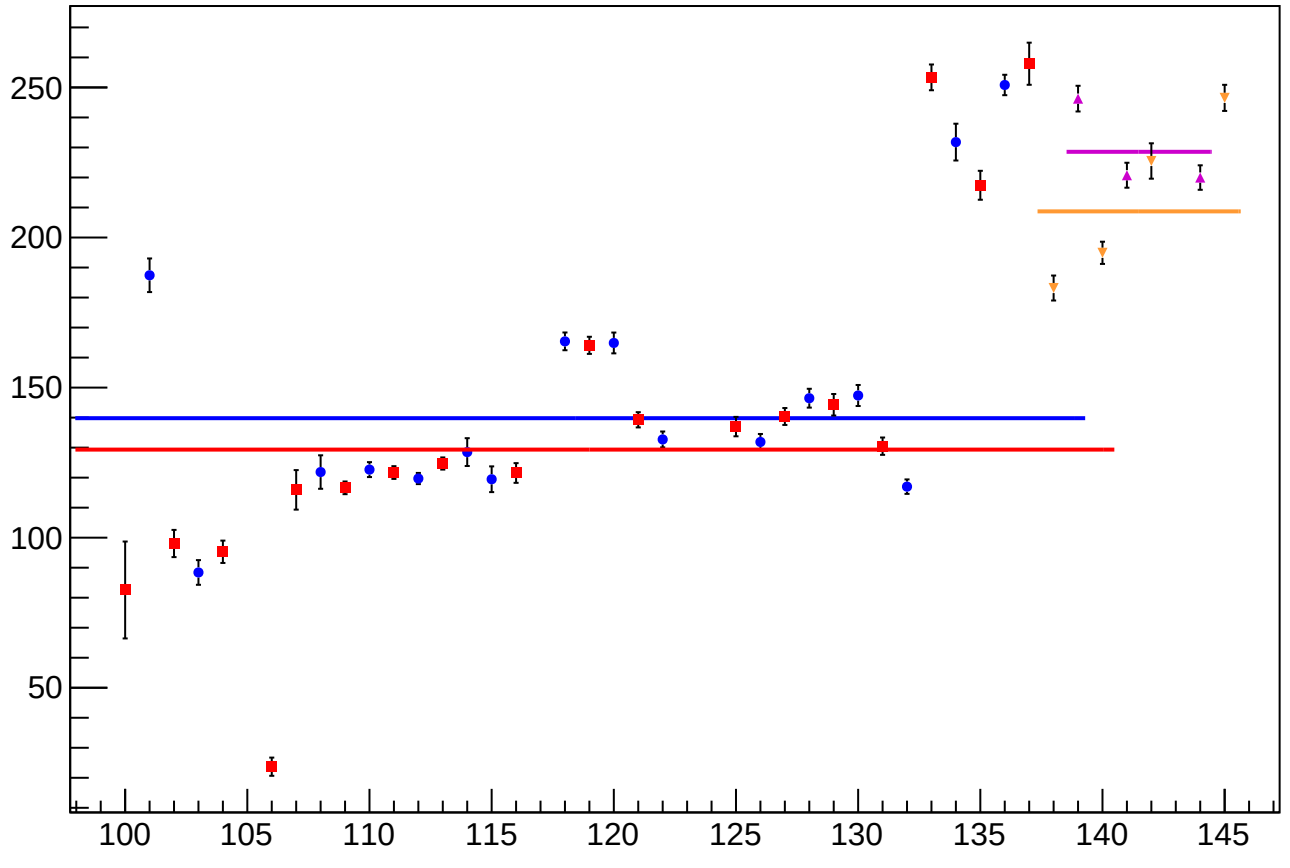
Left: -187.452+/-0.095 $\chi^2$/NDF: 23293.1/6

Right: -105.832+/-0.050 $\chi^2$/NDF: 1000593.4/33

In: -146.456+/-0.070 $\chi^2$/NDF:215038.6/18

Out: -108.450+/-0.058 $\chi^2$/NDF:1209189.2/21

All: -123.733+/-0.045 $\chi^2$/NDF: 1599483.3/40




Right In: 139.810+/-0.785 $\chi^2$/NDF: 1964.9/15

Left Out: 208.710+/-2.170 $\chi^2$/NDF:135.3/3

Right Out: 129.344+/-0.734 $\chi^2$/NDF: 3123.5/17

Left In: 228.558+/-2.408 $\chi^2$/NDF:25.1/2

Left: 217.603+/-1.612 $\chi^2$/NDF: 197.9/6

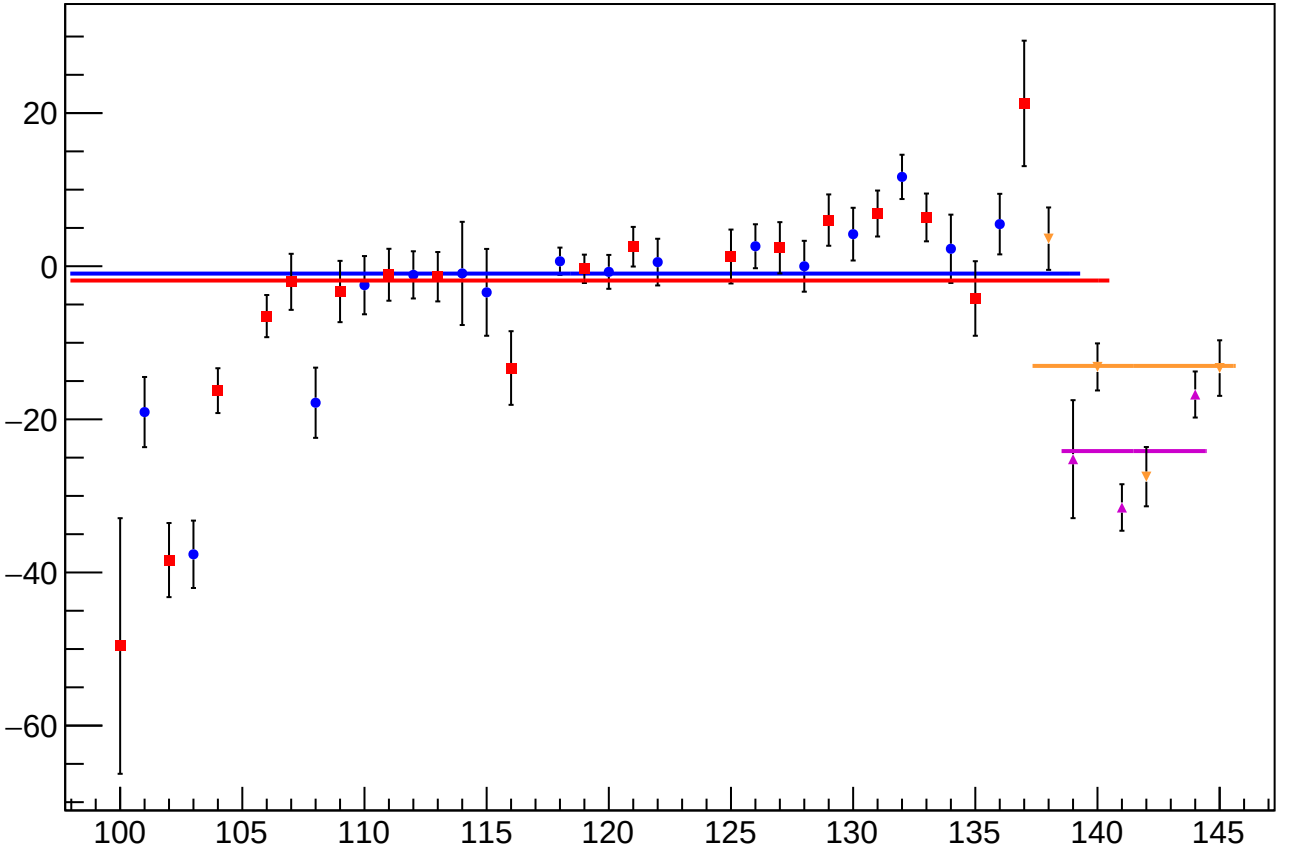
Right: 134.231+/-0.536 $\chi^2$/NDF: 5183.3/33

In: 148.327+/-0.746 $\chi^2$/NDF:3218.0/18

Out: 137.499+/-0.696 $\chi^2$/NDF:4459.4/21

All: 142.535+/-0.509 $\chi^2$/NDF: 7790.1/40

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: -13.020+/-1.800 $\chi^2$/NDF:30.6/3

Right Out: -1.869+/-0.784 $\chi^2$/NDF: 133.2/17

Left In: -24.145+/-2.060 $\chi^2$/NDF:11.9/2

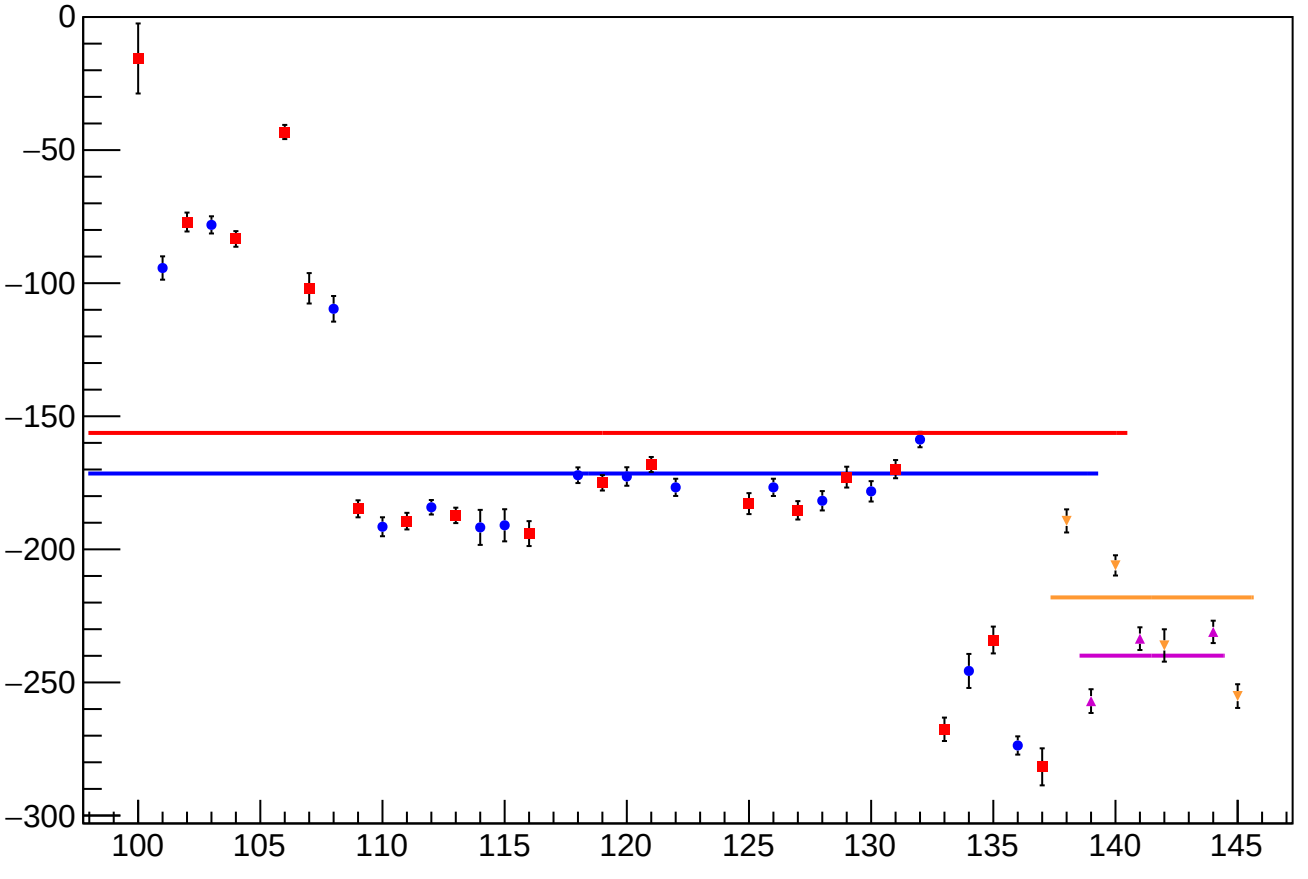
Left: -17.837+/-1.355 $\chi^2$/NDF: 59.1/6

Right: -1.430+/-0.563 $\chi^2$/NDF: 259.9/33

In: -4.055+/-0.752 $\chi^2$/NDF:247.7/18

Out: -3.645+/-0.718 $\chi^2$/NDF:196.0/21

All: -3.841+/-0.520 $\chi^2$/NDF: 443.9/40




Right In: -171.506+/-0.907 $\chi^2$/NDF: 2442.8/15

Left Out: -218.055+/-2.239 $\chi^2$/NDF:131.8/3

Right Out: -156.260+/-0.847 $\chi^2$/NDF: 4904.3/17

Left In: -239.940+/-2.486 $\chi^2$/NDF:21.4/2

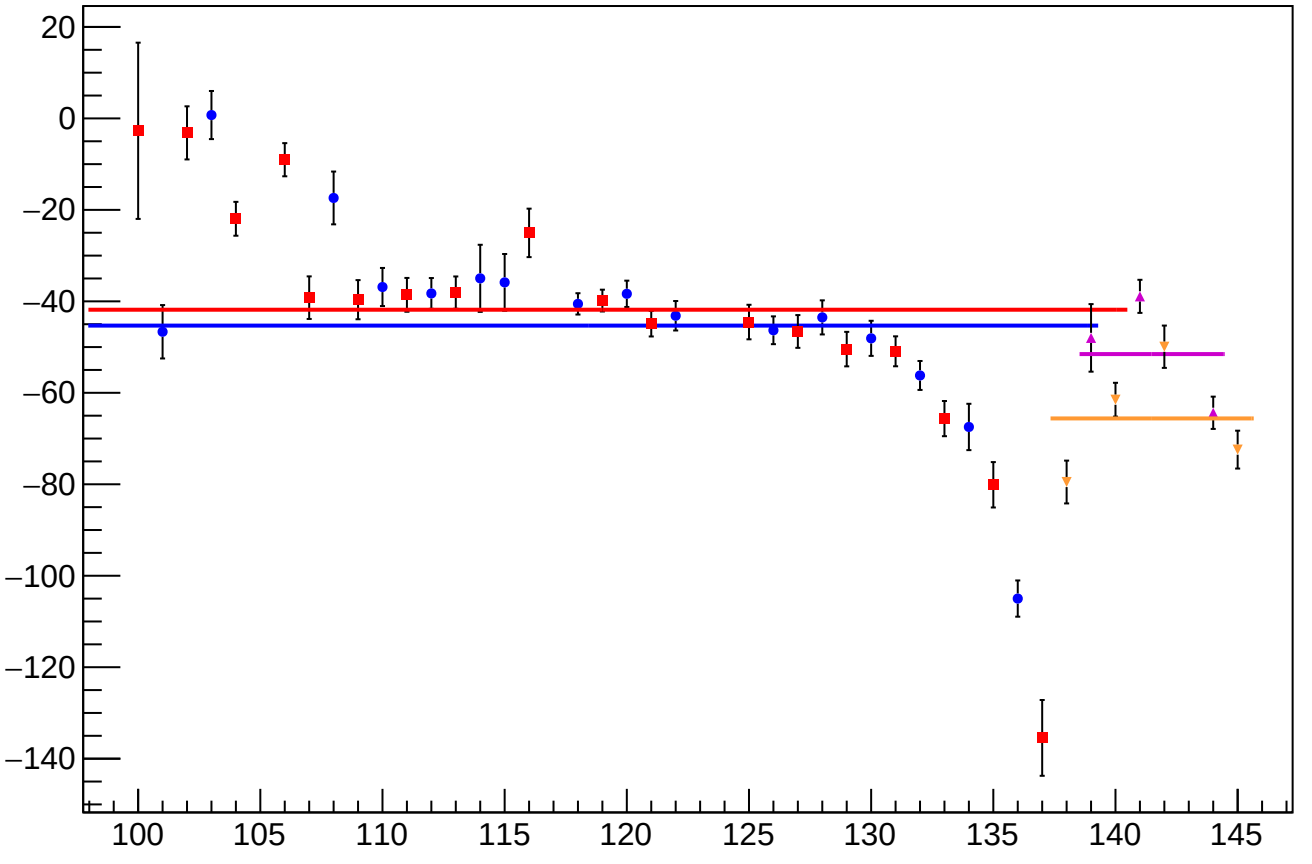
Left: -227.854+/-1.664 $\chi^2$/NDF: 196.0/6

Right: -163.367+/-0.619 $\chi^2$/NDF: 7498.1/33

In: -179.542+/-0.852 $\chi^2$/NDF:3132.9/18

Out: -164.004+/-0.792 $\chi^2$/NDF:5702.7/21

All: -171.212+/-0.580 $\chi^2$/NDF: 9014.0/40




Right In: -45.304+/-0.938 $\chi^2$/NDF: 382.0/15

Left Out: -65.603+/-2.114 $\chi^2$/NDF:24.2/3

Right Out: -41.832+/-0.909 $\chi^2$/NDF: 414.2/17

Left In: -51.531+/-2.390 $\chi^2$/NDF:25.6/2

Left: -59.428+/-1.583 $\chi^2$/NDF: 69.3/6

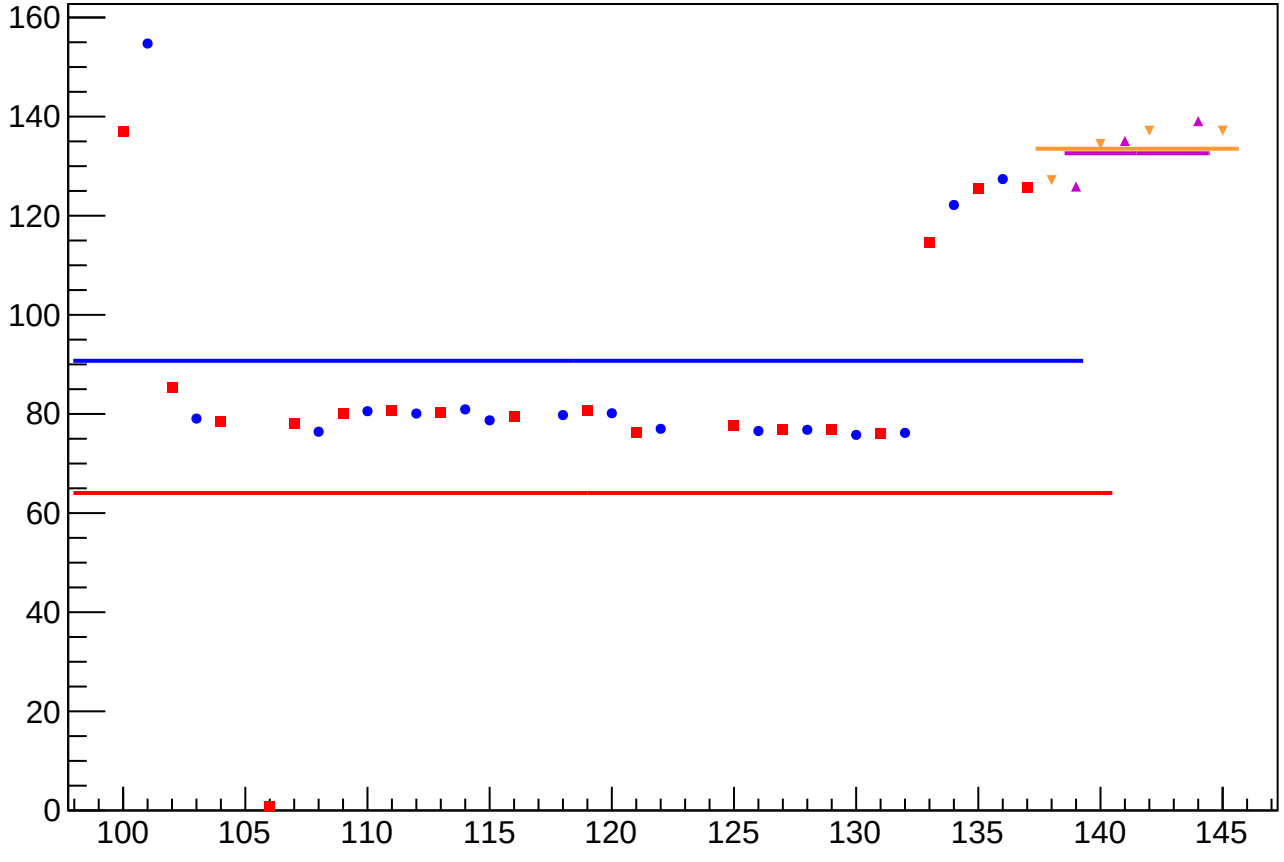
Right: -43.515+/-0.653 $\chi^2$/NDF: 803.4/33

In: -46.135+/-0.873 $\chi^2$/NDF:413.6/18

Out: -45.545+/-0.835 $\chi^2$/NDF:545.2/21

All: -45.827+/-0.603 $\chi^2$/NDF: 959.0/40

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: 133.517+/-0.093 $\chi^2$/NDF:1987.6/3

Right Out: 64.059+/-0.049 $\chi^2$/NDF: 660935.1/17

Left In: 132.602+/-0.100 $\chi^2$/NDF:3171.9/2

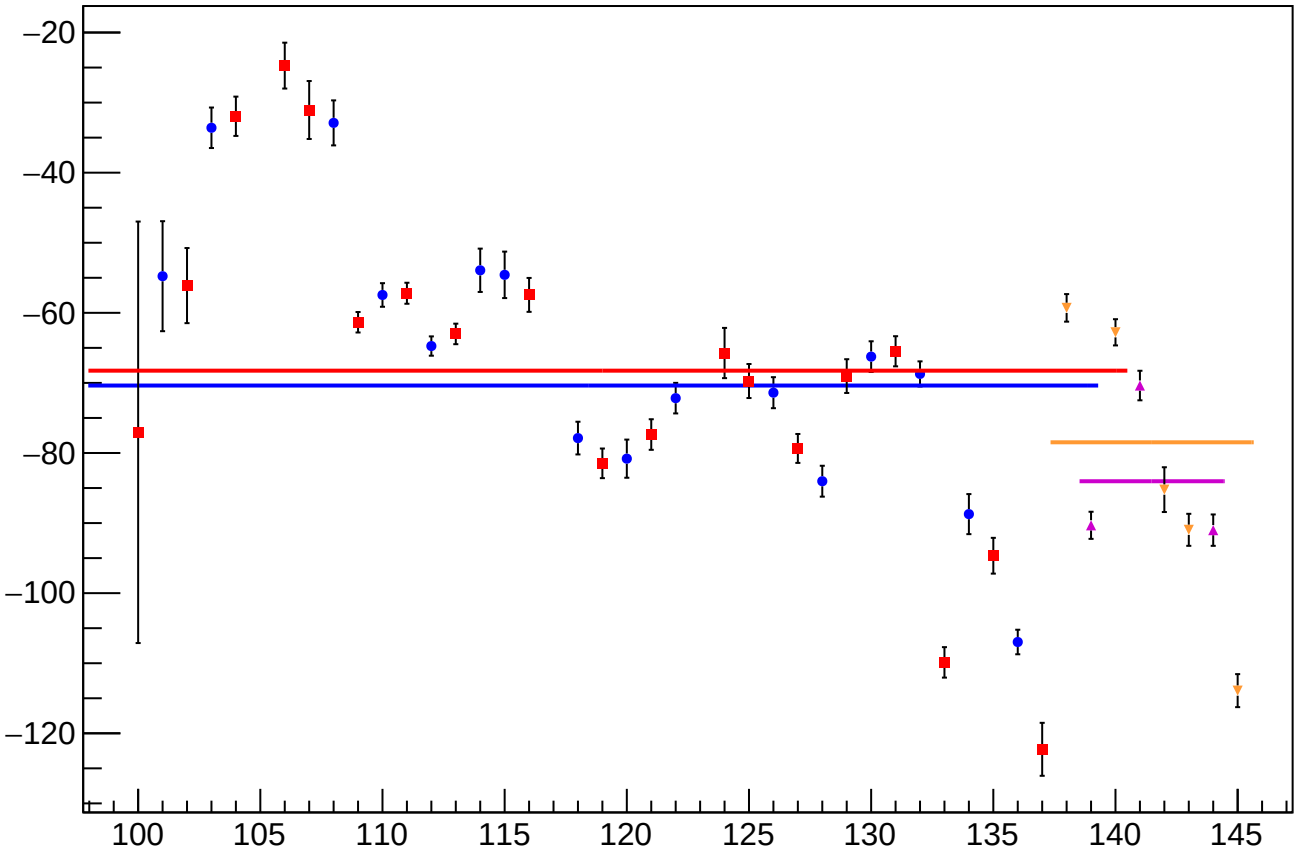
Left: 133.091+/-0.068 $\chi^2$/NDF: 5204.5/6

Right: 75.136+/-0.038 $\chi^2$/NDF: 943639.1/33

In: 101.432+/-0.050 $\chi^2$/NDF:295399.6/18

Out: 79.282+/-0.044 $\chi^2$/NDF:1098041.5/21

All: 88.741+/-0.033 $\chi^2$/NDF: 1503851.4/40




Right In: -70.374+/-0.558 $\chi^2$/NDF: 974.9/15

Left Out: -78.475+/-0.993 $\chi^2$/NDF:426.1/4

Right Out: -68.252+/-0.527 $\chi^2$/NDF: 1306.0/18

Left In: -84.031+/-1.202 $\chi^2$/NDF:62.2/2

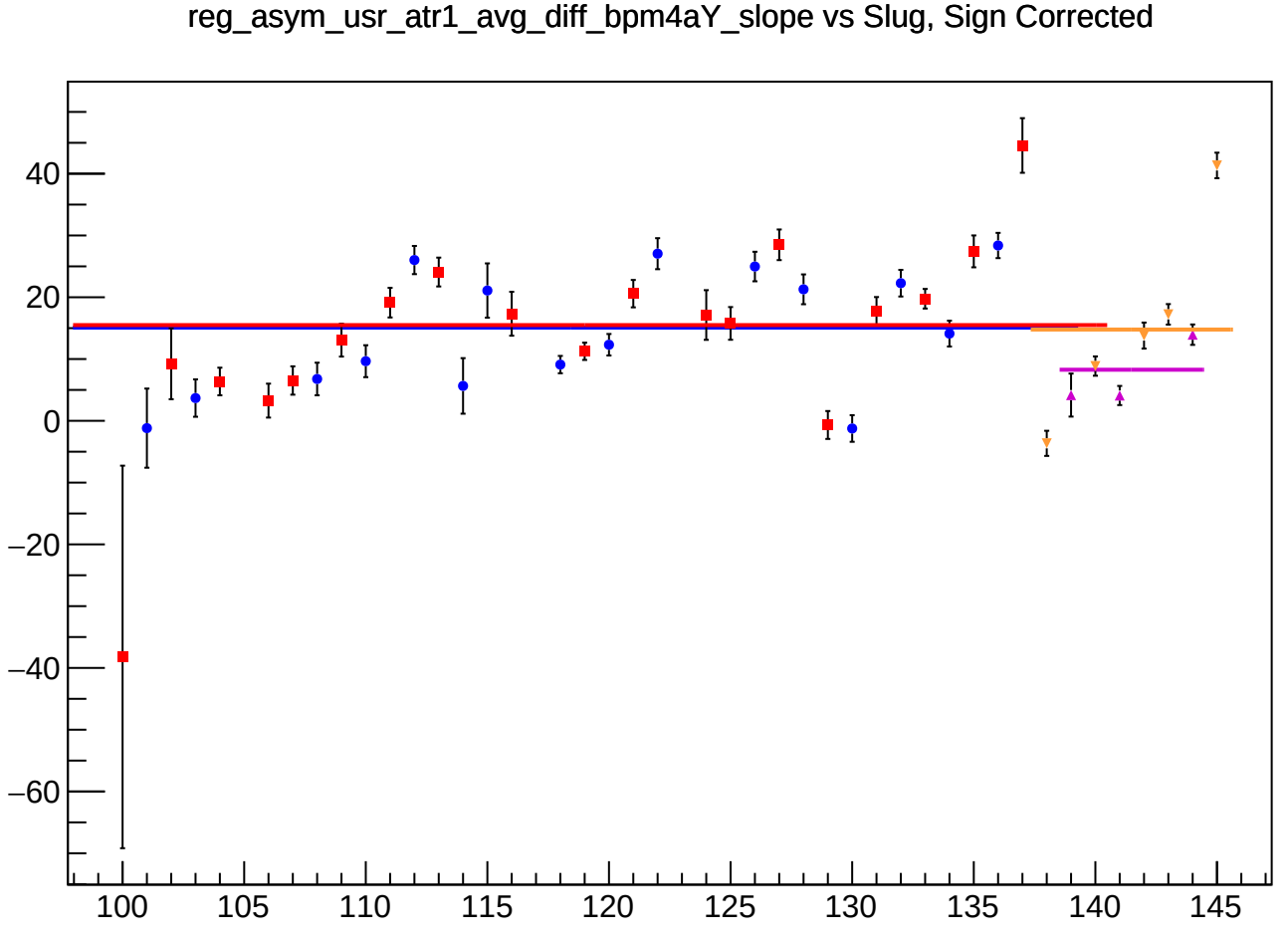
Left: -80.728+/-0.766 $\chi^2$/NDF: 501.1/7

Right: -69.252+/-0.383 $\chi^2$/NDF: 2288.5/34

In: -72.793+/-0.506 $\chi^2$/NDF:1143.3/18

Out: -70.496+/-0.465 $\chi^2$/NDF:1814.8/23

All: -71.548+/-0.342 $\chi^2$/NDF: 2969.3/42




Right In: 15.092+/-0.581 $\chi^2$/NDF: 242.4/15

Left Out: 14.774+/-0.824 $\chi^2$/NDF:263.6/4

Right Out: 15.491+/-0.558 $\chi^2$/NDF: 239.3/18

Left In: 8.269+/-1.074 $\chi^2$/NDF:20.5/2

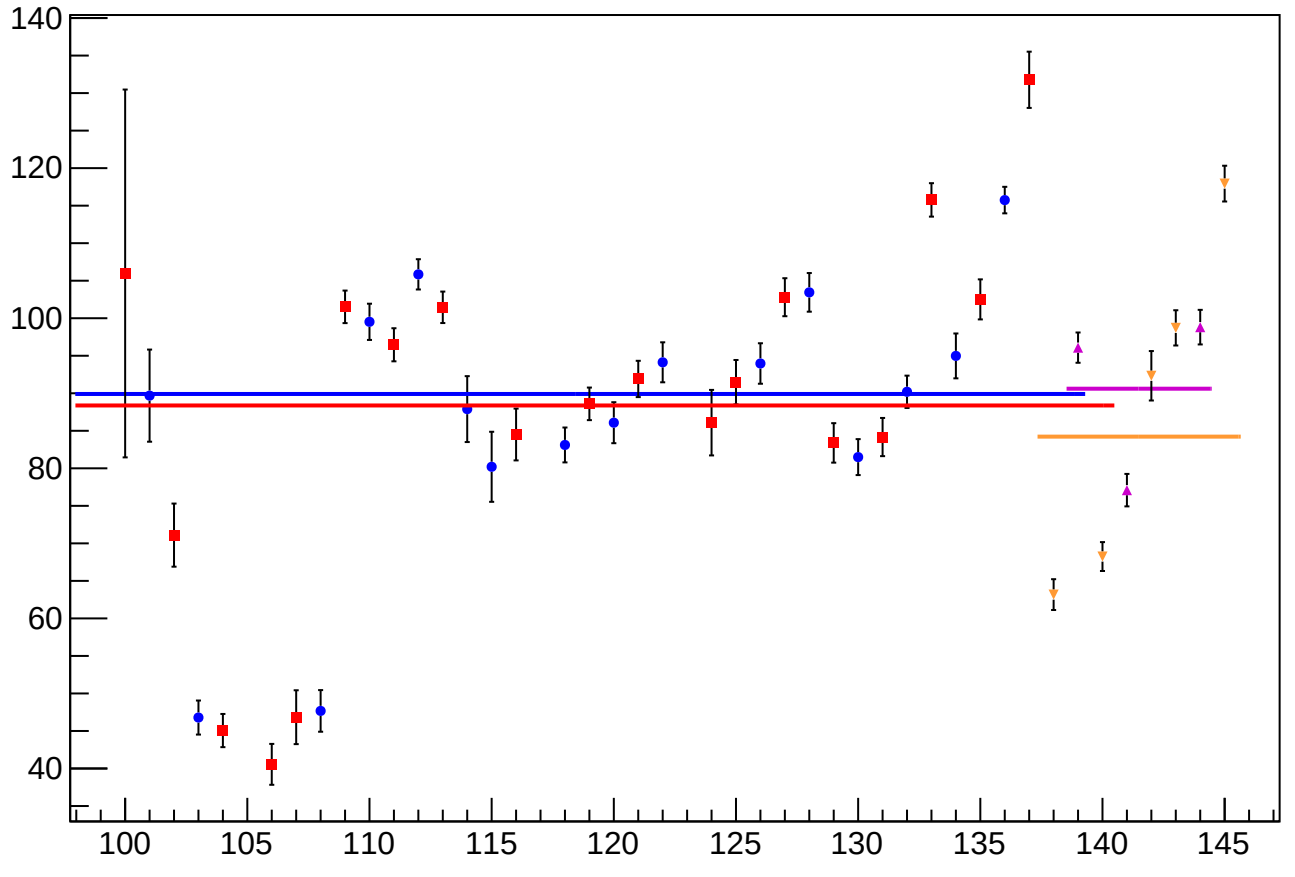
Left: 12.365+/-0.654 $\chi^2$/NDF: 307.1/7

Right: 15.300+/-0.402 $\chi^2$/NDF: 482.0/34

In: 13.548+/-0.511 $\chi^2$/NDF:294.1/18

Out: 15.266+/-0.462 $\chi^2$/NDF:503.4/23

All: 14.493+/-0.343 $\chi^2$/NDF: 803.7/42




Right In: 89.907+/-0.641 $\chi^2$/NDF: 947.7/15

Left Out: 84.223+/-1.022 $\chi^2$/NDF:418.3/4

Right Out: 88.375+/-0.617 $\chi^2$/NDF: 1288.9/18

Left In: 90.609+/-1.242 $\chi^2$/NDF:59.1/2

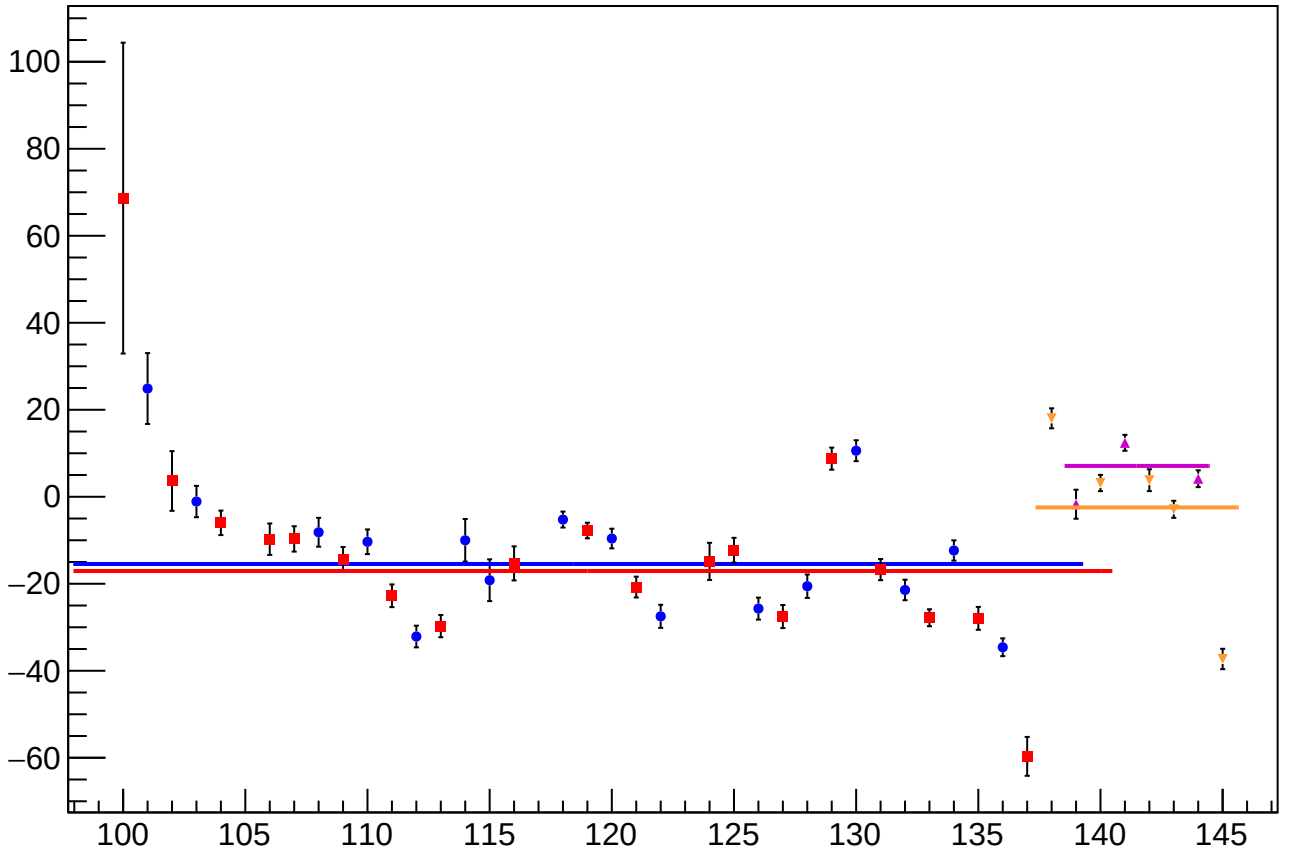
Left: 86.801+/-0.789 $\chi^2$/NDF: 493.2/7

Right: 89.113+/-0.445 $\chi^2$/NDF: 2239.5/34

In: 90.054+/-0.569 $\chi^2$/NDF:1007.1/18

Out: 87.265+/-0.529 $\chi^2$/NDF:1719.3/23

All: 88.556+/-0.387 $\chi^2$/NDF: 2739.2/42




Right In: -15.454+/-0.665 $\chi^2$/NDF: 386.5/15

Left Out: -2.449+/-0.964 $\chi^2$/NDF:315.9/4

Right Out: -17.066+/-0.644 $\chi^2$/NDF: 361.0/18

Left In: 7.089+/-1.237 $\chi^2$/NDF:17.6/2

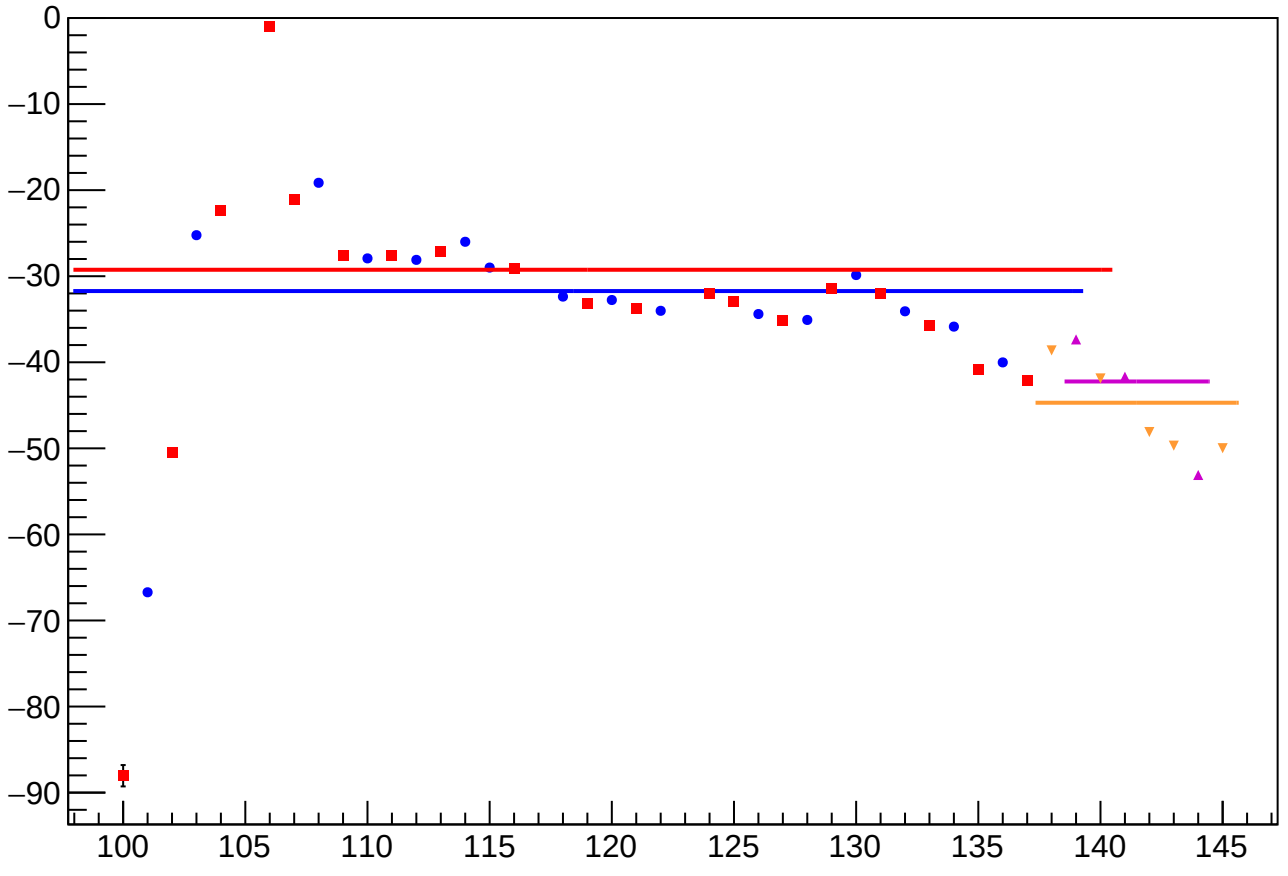
Left: 1.154+/-0.761 $\chi^2$/NDF: 370.5/7

Right: -16.287+/-0.463 $\chi^2$/NDF: 750.5/34

In: -10.397+/-0.586 $\chi^2$/NDF:661.6/18

Out: -12.561+/-0.535 $\chi^2$/NDF:835.8/23

All: -11.577+/-0.395 $\chi^2$/NDF: 1504.8/42




Right In: -31.725+/-0.039 $\chi^2$/NDF: 39636.6/15

Left Out: -44.700+/-0.042 $\chi^2$/NDF:13100.0/4

Right Out: -29.250+/-0.038 $\chi^2$/NDF: 95235.9/18

Left In: -42.232+/-0.049 $\chi^2$/NDF:15727.9/2

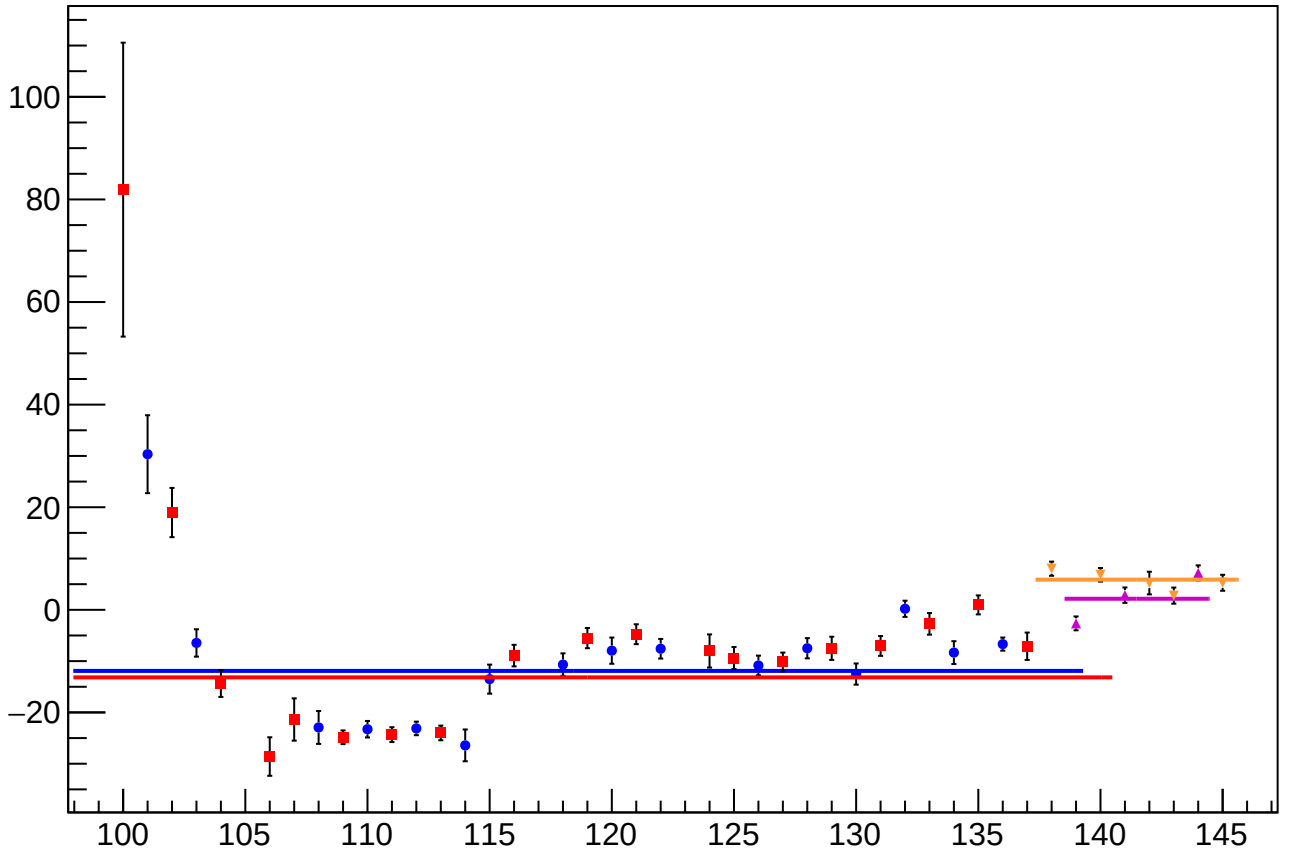
Left: -43.650+/-0.032 $\chi^2$/NDF: 30282.7/7

Right: -30.485+/-0.027 $\chi^2$/NDF: 136941.1/34

In: -35.731+/-0.030 $\chi^2$/NDF:83743.6/18

Out: -36.250+/-0.028 $\chi^2$/NDF:181591.5/23

All: -36.007+/-0.021 $\chi^2$/NDF: 265491.0/42




Right In: -11.906+/-0.497 $\chi^2$/NDF: 282.1/15

Left Out: 5.885+/-0.687 $\chi^2$/NDF:7.1/4

Right Out: -13.169+/-0.480 $\chi^2$/NDF: 421.5/18

Left In: 2.158+/-0.830 $\chi^2$/NDF:24.5/2

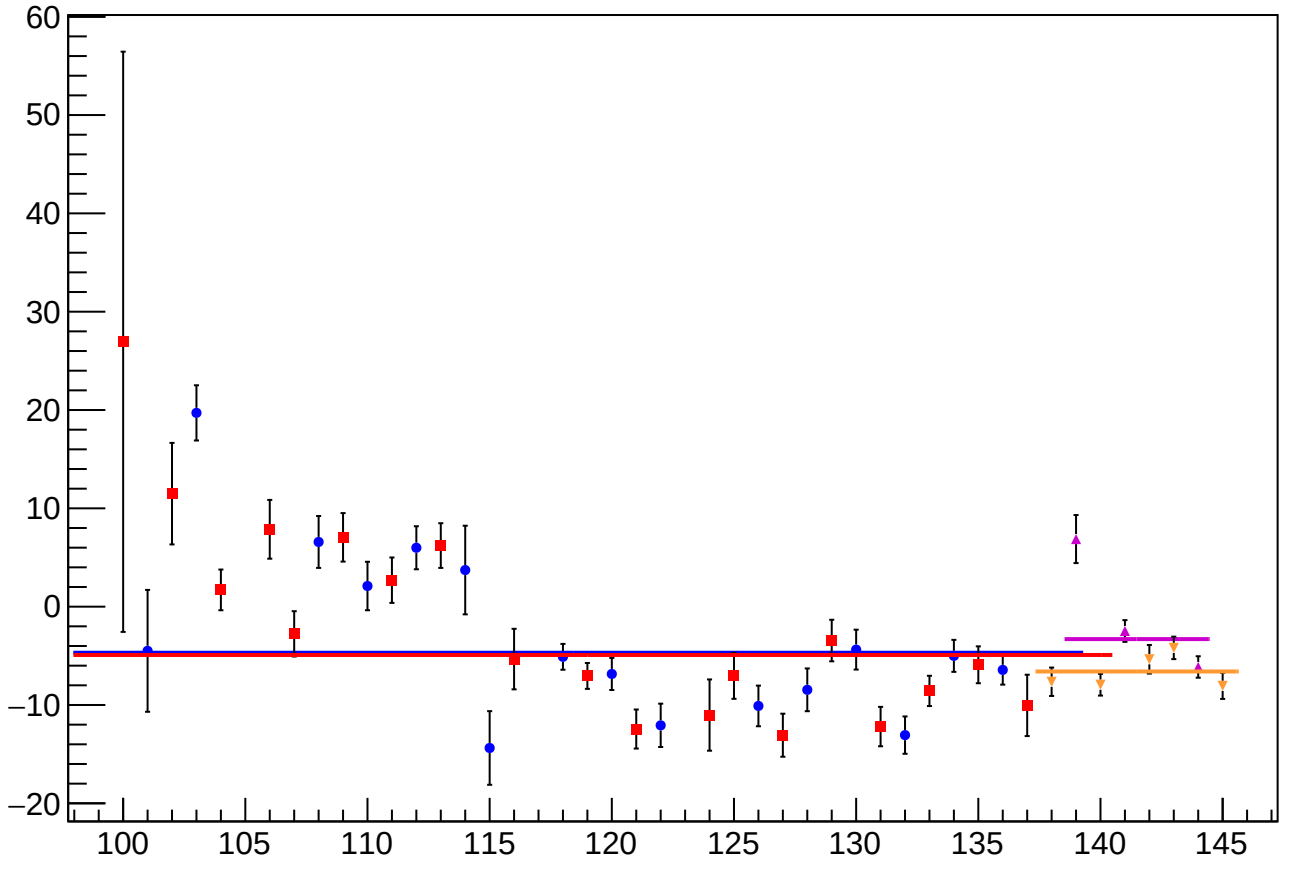
Left: 4.371+/-0.529 $\chi^2$/NDF: 43.5/7

Right: -12.559+/-0.345 $\chi^2$/NDF: 706.9/34

In: -8.199+/-0.426 $\chi^2$/NDF:517.9/18

Out: -6.914+/-0.394 $\chi^2$/NDF:945.6/23

All: -7.506+/-0.289 $\chi^2$/NDF: 1468.4/42




Right In: -4.686+/-0.517 $\chi^2$/NDF: 179.0/15

Left Out: -6.593+/-0.568 $\chi^2$/NDF:8.3/4

Right Out: -4.913+/-0.513 $\chi^2$/NDF: 155.9/18

Left In: -3.299+/-0.740 $\chi^2$/NDF:24.7/2

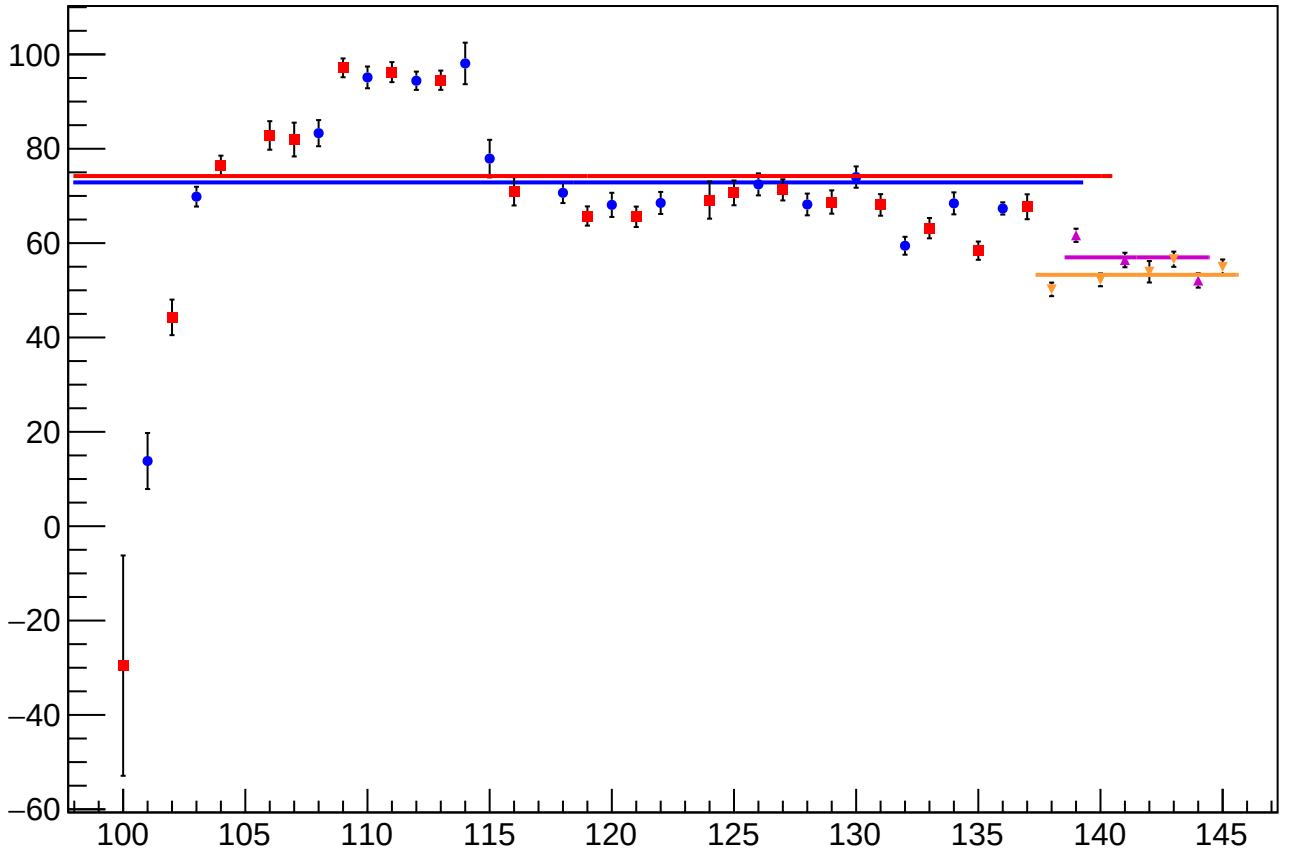
Left: -5.371+/-0.450 $\chi^2$/NDF: 45.5/7

Right: -4.801+/-0.364 $\chi^2$/NDF: 335.0/34

In: -4.231+/-0.424 $\chi^2$/NDF:206.1/18

Out: -5.668+/-0.381 $\chi^2$/NDF:169.0/23

All: -5.026+/-0.283 $\chi^2$/NDF: 381.5/42




Right In: 72.866+/-0.565 $\chi^2$/NDF: 450.7/15

Left Out: 53.278+/-0.708 $\chi^2$/NDF:10.6/4

Right Out: 74.217+/-0.562 $\chi^2$/NDF: 586.2/18

Left In: 56.980+/-0.858 $\chi^2$/NDF:21.6/2

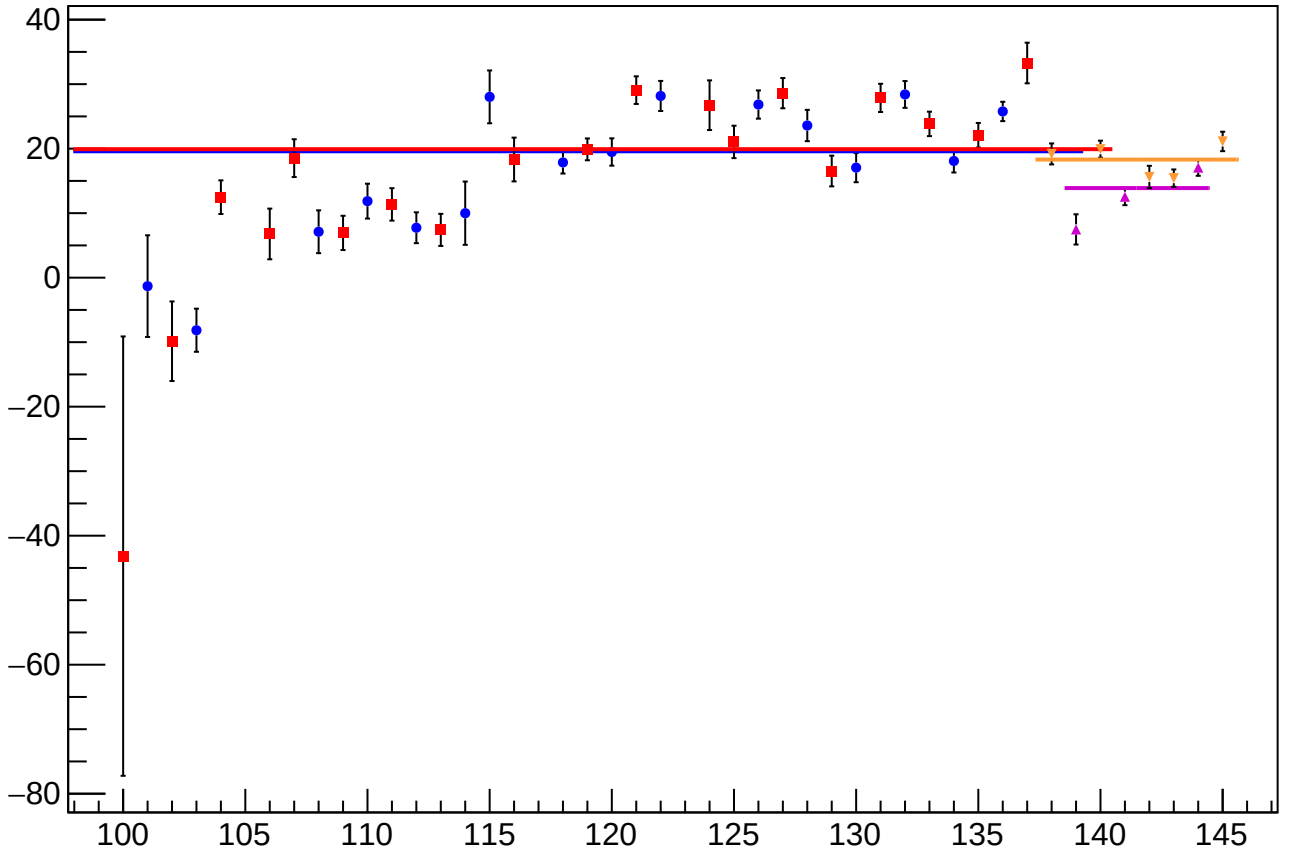
Left: 54.779+/-0.546 $\chi^2$/NDF: 43.2/7

Right: 73.545+/-0.399 $\chi^2$/NDF: 1039.8/34

In: 68.055+/-0.472 $\chi^2$/NDF:711.4/18

Out: 66.121+/-0.440 $\chi^2$/NDF:1133.0/23

All: 67.021+/-0.322 $\chi^2$/NDF: 1853.4/42




Right In: 19.598+/-0.585 $\chi^2$/NDF: 196.0/15

Left Out: 18.308+/-0.664 $\chi^2$/NDF:12.2/4

Right Out: 19.919+/-0.585 $\chi^2$/NDF: 181.3/18

Left In: 13.890+/-0.852 $\chi^2$/NDF:14.7/2

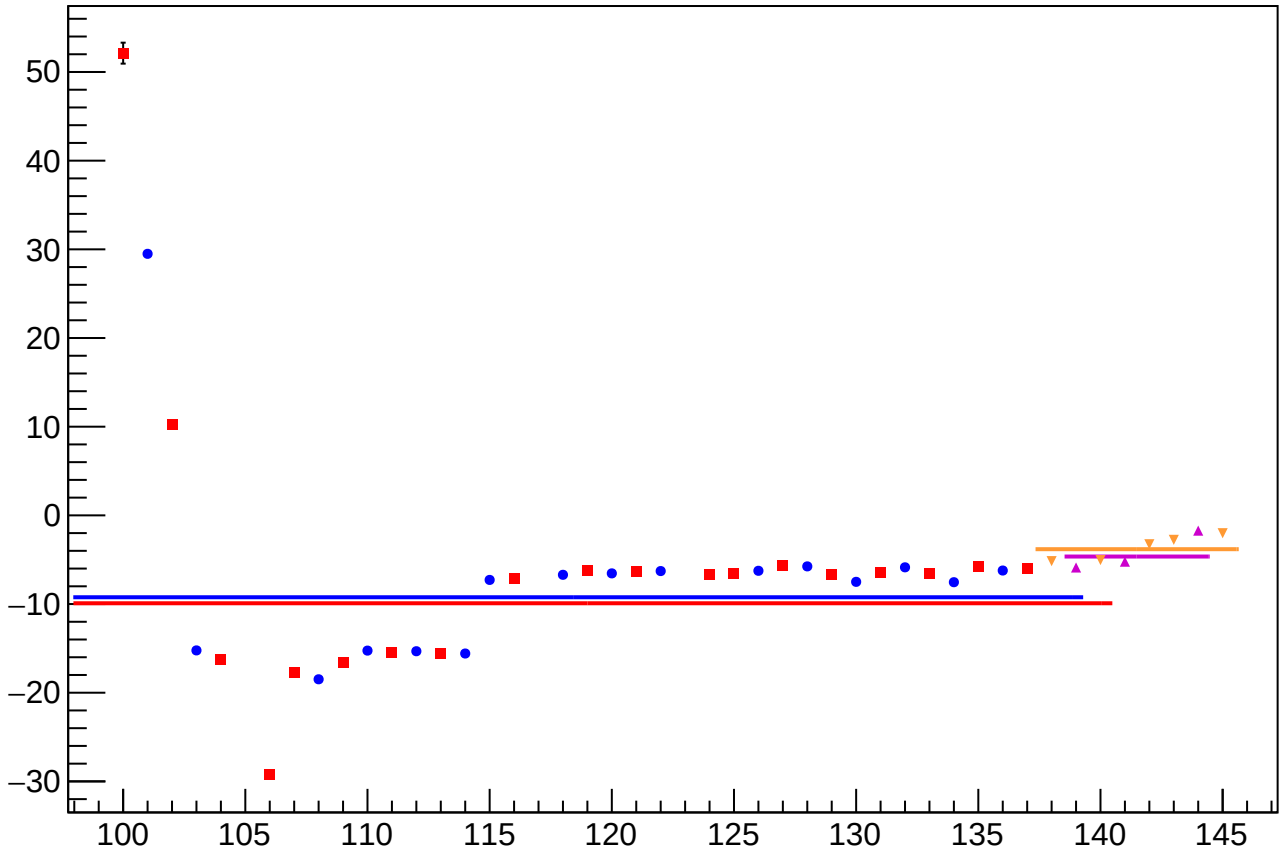
Left: 16.639+/-0.523 $\chi^2$/NDF: 43.7/7

Right: 19.759+/-0.414 $\chi^2$/NDF: 377.5/34

In: 17.766+/-0.482 $\chi^2$/NDF:241.2/18

Out: 19.214+/-0.439 $\chi^2$/NDF:196.9/23

All: 18.558+/-0.325 $\chi^2$/NDF: 443.0/42




Right In: -9.235+/-0.033 $\chi^2$/NDF: 31159.3/15

Left Out: -3.815+/-0.029 $\chi^2$/NDF:2085.2/4

Right Out: -9.913+/-0.034 $\chi^2$/NDF: 53863.3/18

Left In: -4.643+/-0.034 $\chi^2$/NDF:2540.9/2

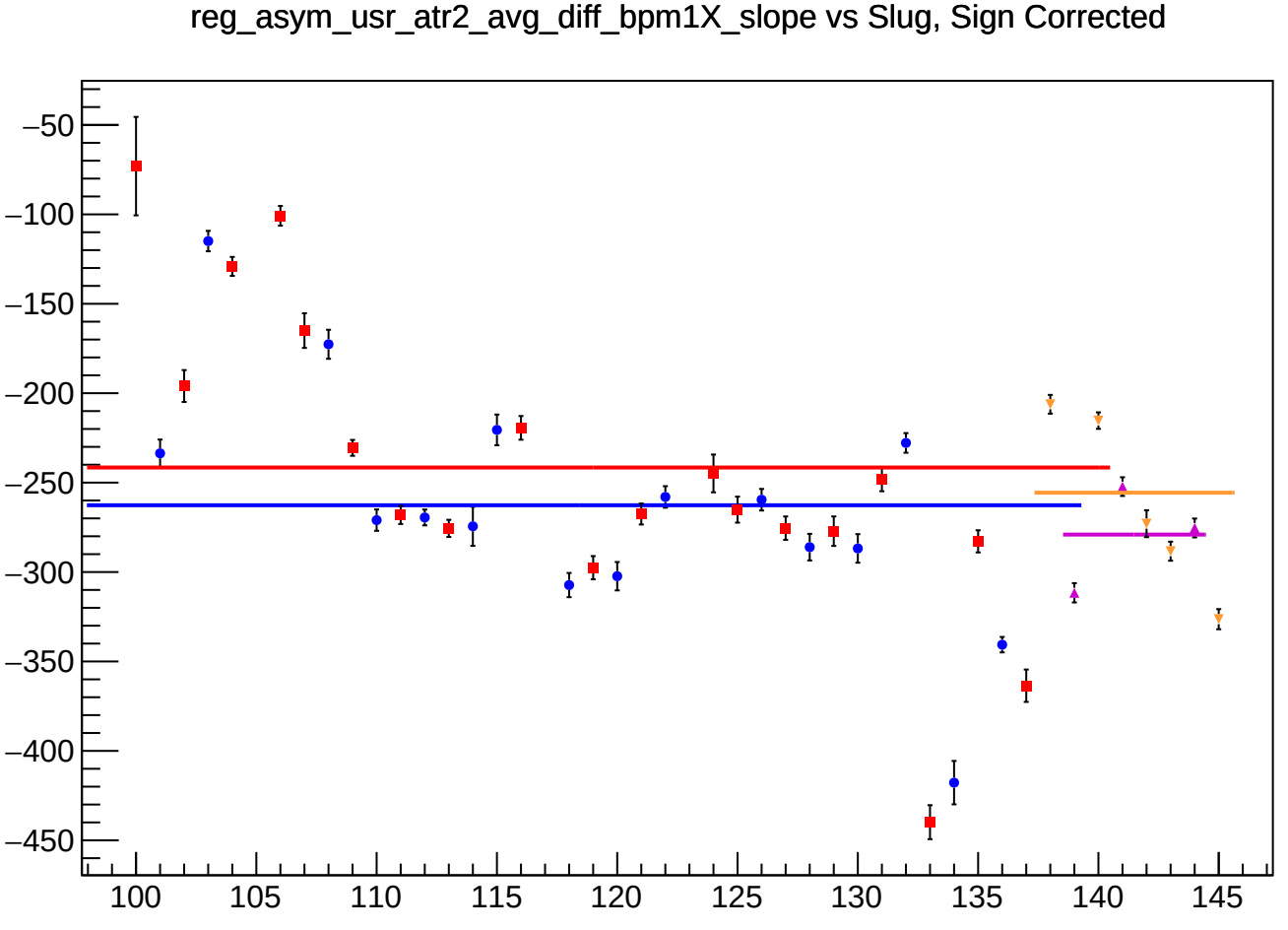
Left: -4.165+/-0.022 $\chi^2$/NDF: 4968.2/7

Right: -9.558+/-0.024 $\chi^2$/NDF: 85225.4/34

In: -7.018+/-0.024 $\chi^2$/NDF:43137.5/18

Out: -6.359+/-0.022 $\chi^2$/NDF:74226.3/23

All: -6.669+/-0.016 $\chi^2$/NDF: 117776.1/42




Right In: -262.643+/-1.614 $\chi^2$/NDF: 1454.3/15

Left Out: -255.635+/-2.442 $\chi^2$/NDF:365.9/4

Right Out: -241.548+/-1.506 $\chi^2$/NDF: 2138.6/18

Left In: -279.062+/-3.059 $\chi^2$/NDF:63.2/2

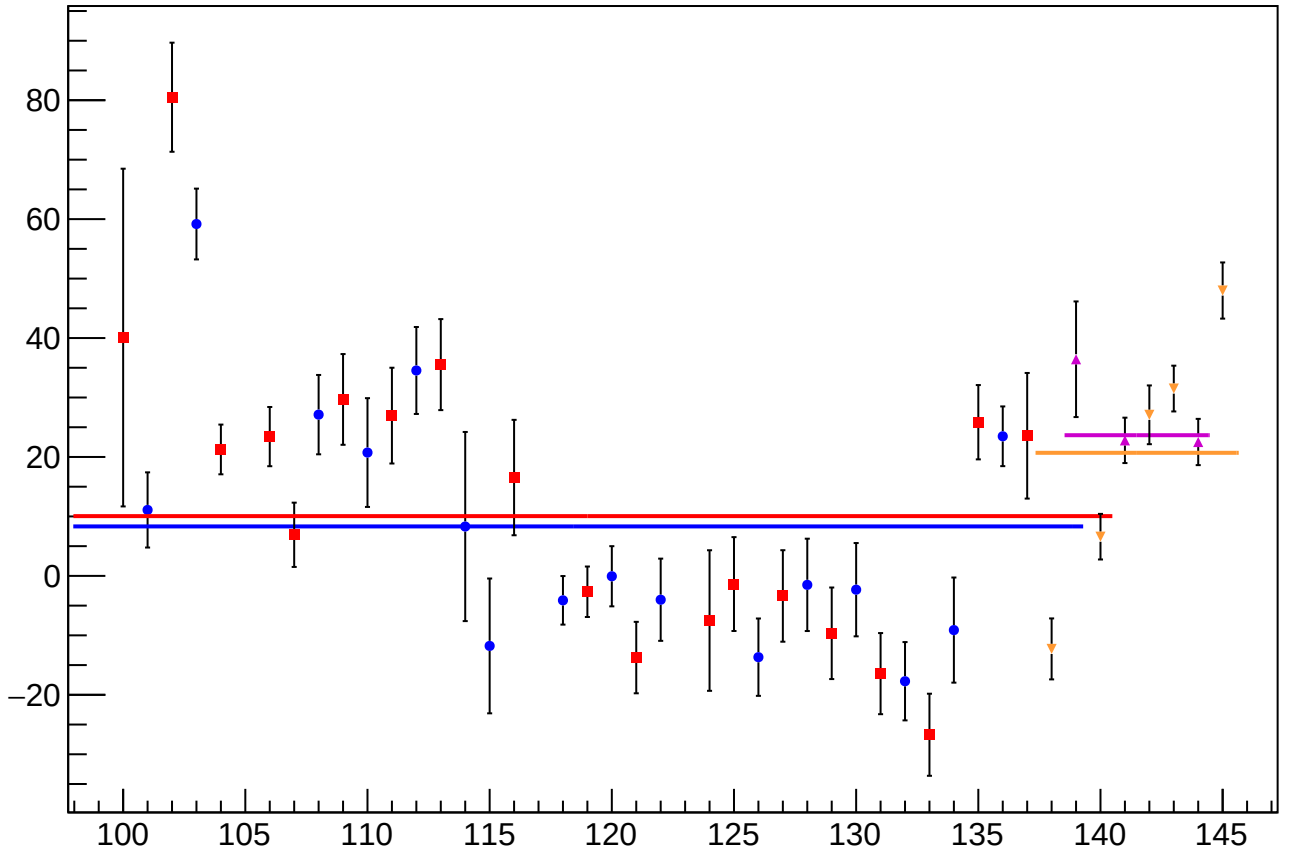
Left: -264.750+/-1.908 $\chi^2$/NDF: 464.9/7

Right: -251.368+/-1.101 $\chi^2$/NDF: 3684.2/34

In: -266.217+/-1.427 $\chi^2$/NDF:1540.0/18

Out: -245.431+/-1.282 $\chi^2$/NDF:2528.6/23

All: -254.710+/-0.954 $\chi^2$/NDF: 4186.0/42




Right In: 8.320+/-1.644 $\chi^2$/NDF: 157.6/15

Left Out: 20.700+/-1.964 $\chi^2$/NDF:97.8/4

Right Out: 10.052+/-1.539 $\chi^2$/NDF: 187.4/18

Left In: 23.660+/-2.623 $\chi^2$/NDF:1.9/2

Left: 21.763+/-1.572 $\chi^2$/NDF: 100.5/7

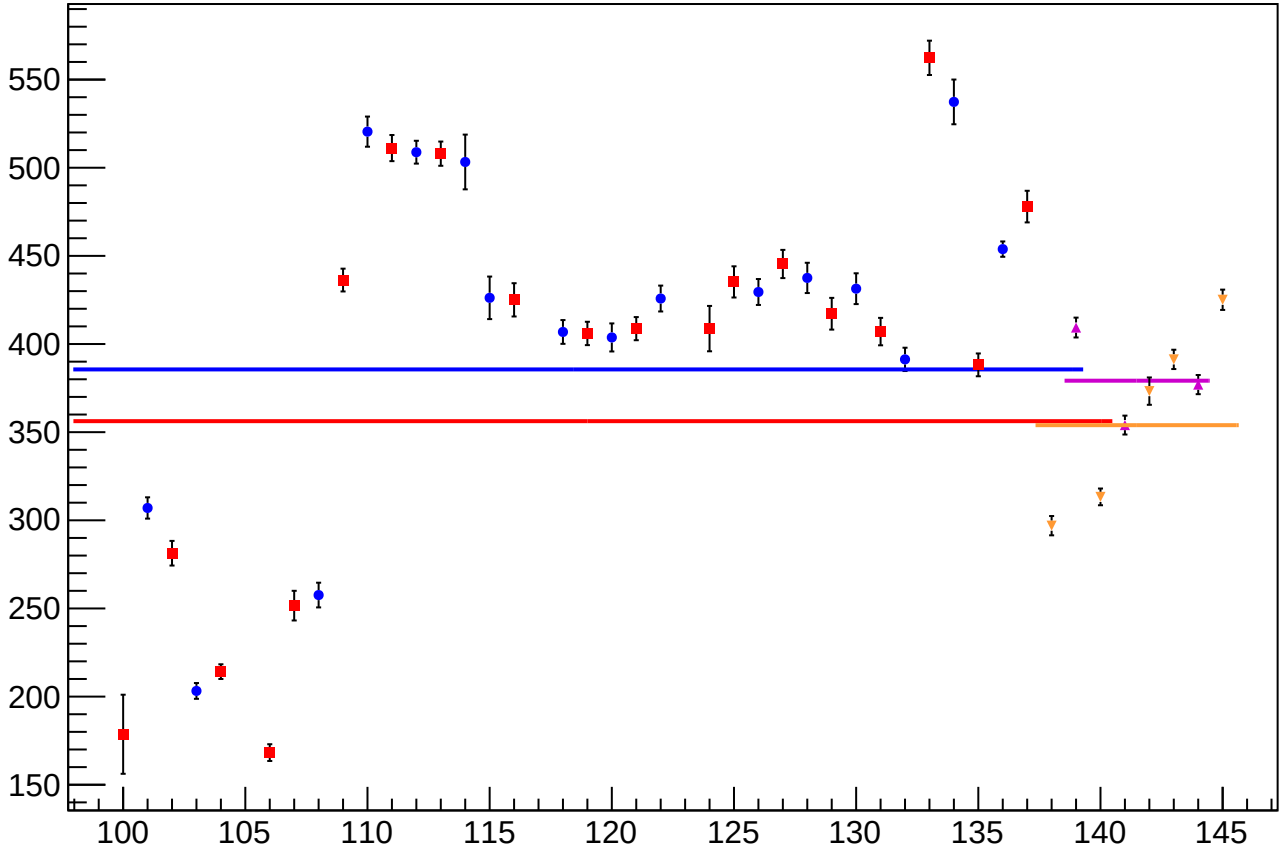
Right: 9.243+/-1.123 $\chi^2$/NDF: 345.7/34

In: 12.646+/-1.393 $\chi^2$/NDF:184.1/18

Out: 14.103+/-1.211 $\chi^2$/NDF:303.5/23

All: 13.476+/-0.914 $\chi^2$/NDF: 488.2/42

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: 353.967+/-2.516 $\chi^2$/NDF:387.2/4

Right Out: 356.245+/-1.647 $\chi^2$/NDF: 5270.3/18

Left In: 379.198+/-3.159 $\chi^2$/NDF:50.9/2

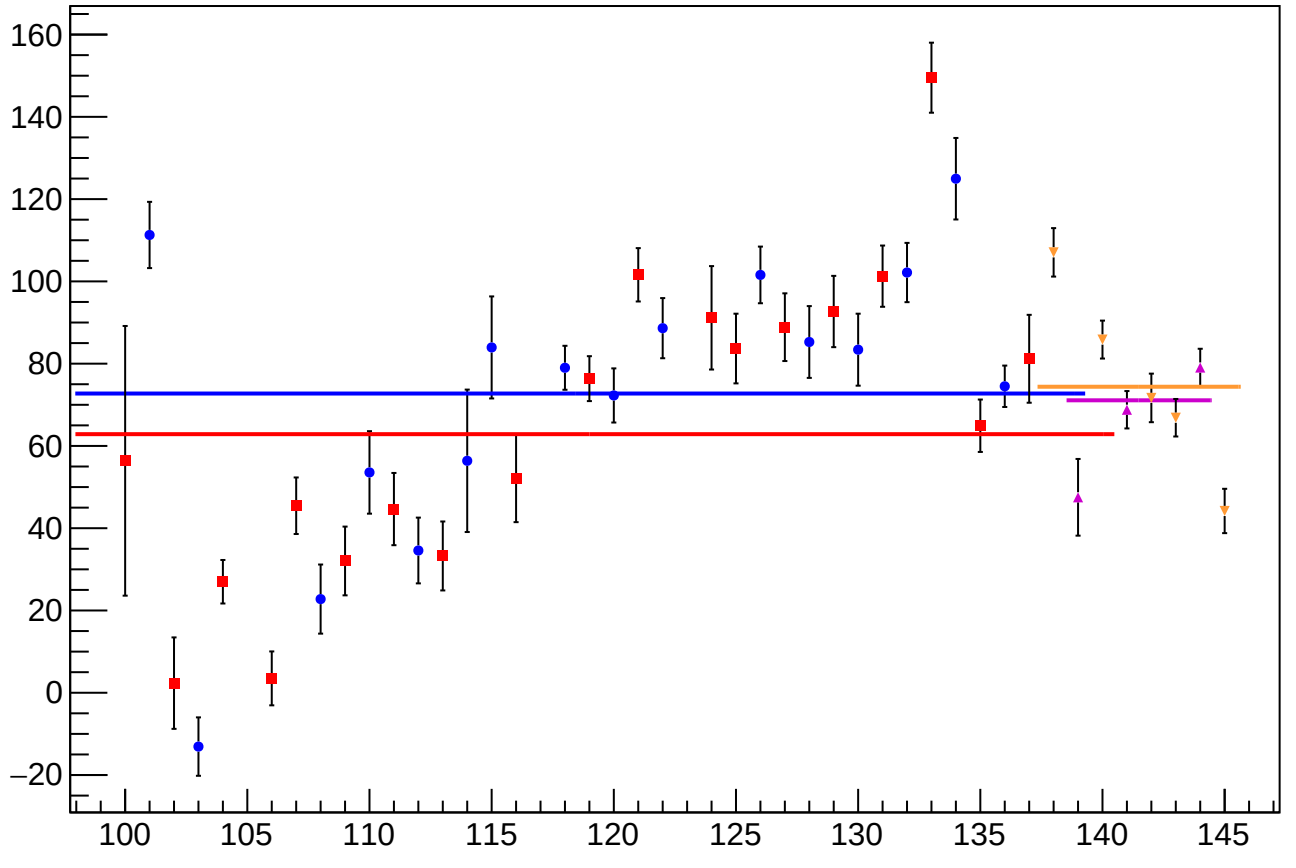
Left: 363.763+/-1.968 $\chi^2$/NDF: 477.2/7

Right: 370.089+/-1.197 $\chi^2$/NDF: 8793.2/34

In: 384.099+/-1.526 $\chi^2$/NDF:3427.2/18

Out: 355.562+/-1.378 $\chi^2$/NDF:5658.1/23

All: 368.382+/-1.023 $\chi^2$/NDF: 9277.9/42




Right In: 72.740+/-1.897 $\chi^2$/NDF: 304.3/15

Left Out: 74.390+/-2.312 $\chi^2$/NDF:71.3/4

Right Out: 62.863+/-1.795 $\chi^2$/NDF: 403.6/18

Left In: 71.092+/-3.044 $\chi^2$/NDF:9.7/2

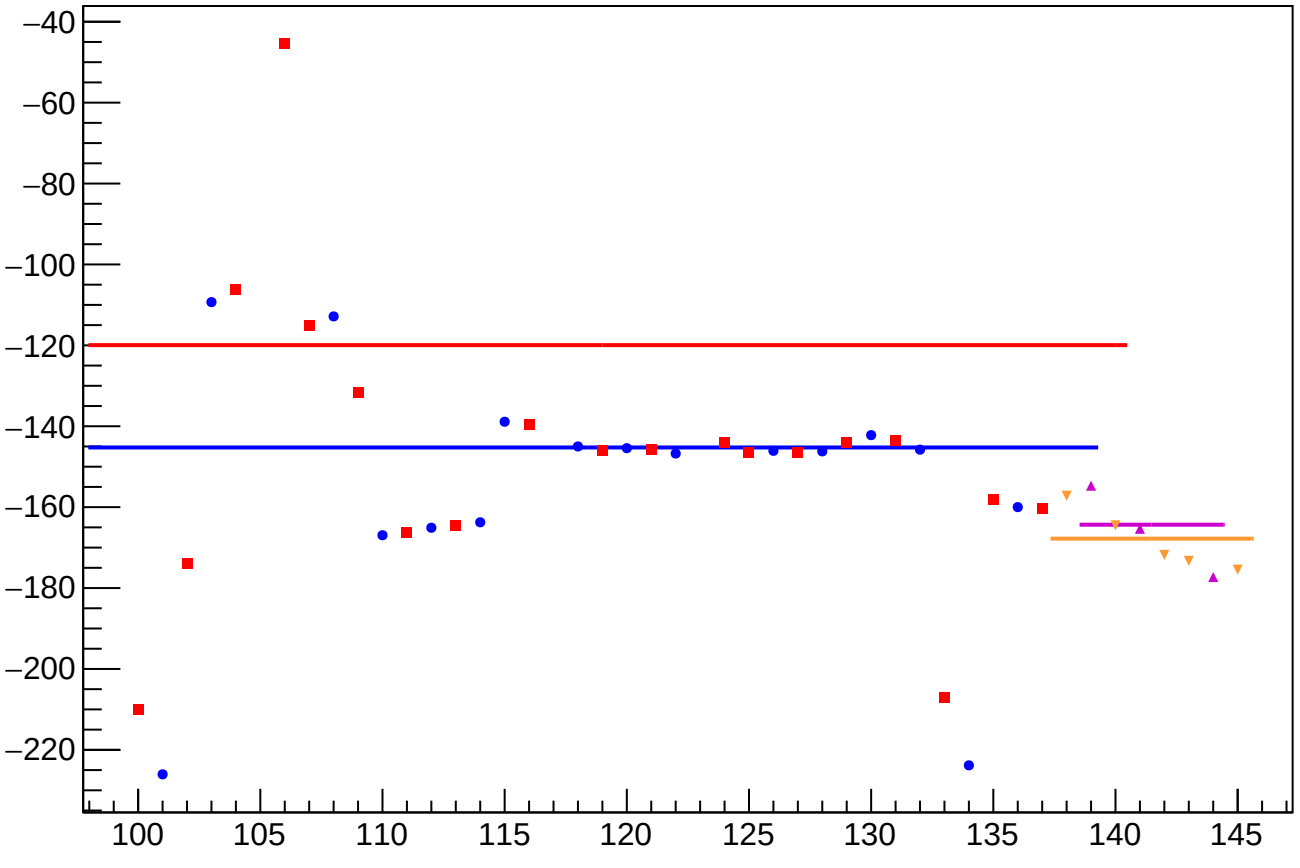
Left: 73.184+/-1.841 $\chi^2$/NDF: 81.7/7

Right: 67.528+/-1.304 $\chi^2$/NDF: 722.2/34

In: 72.279+/-1.610 $\chi^2$/NDF:314.2/18

Out: 67.197+/-1.418 $\chi^2$/NDF:490.4/23

All: 69.417+/-1.064 $\chi^2$/NDF: 810.2/42




Right In: -145.246+/-0.098 $\chi^2$/NDF: 132057.3/15

Left Out: -167.788+/-0.105 $\chi^2$/NDF:4420.9/4

Right Out: -119.947+/-0.089 $\chi^2$/NDF: 270354.1/18

Left In: -164.340+/-0.127 $\chi^2$/NDF:5156.3/2

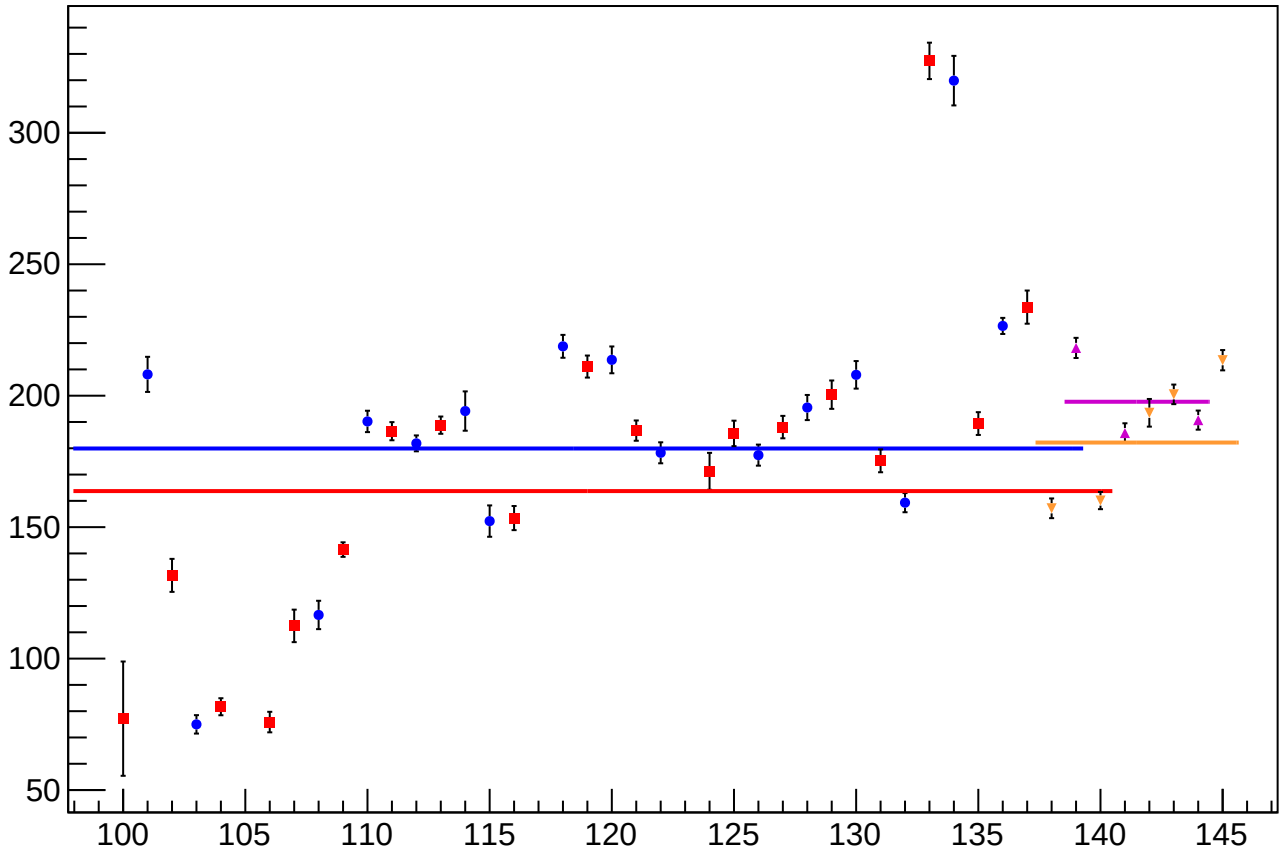
Left: -166.387+/-0.081 $\chi^2$/NDF: 10017.1/7

Right: -131.335+/-0.066 $\chi^2$/NDF: 438808.7/34

In: -152.428+/-0.078 $\chi^2$/NDF:151393.6/18

Out: -139.989+/-0.068 $\chi^2$/NDF:395904.5/23

All: -145.370+/-0.051 $\chi^2$/NDF: 561849.6/42




Right In: 179.918+/-1.089 $\chi^2$/NDF: 1732.7/15

Left Out: 182.182+/-1.716 $\chi^2$/NDF:184.5/4

Right Out: 163.718+/-1.001 $\chi^2$/NDF: 2416.8/18

Left In: 197.693+/-2.148 $\chi^2$/NDF:42.6/2

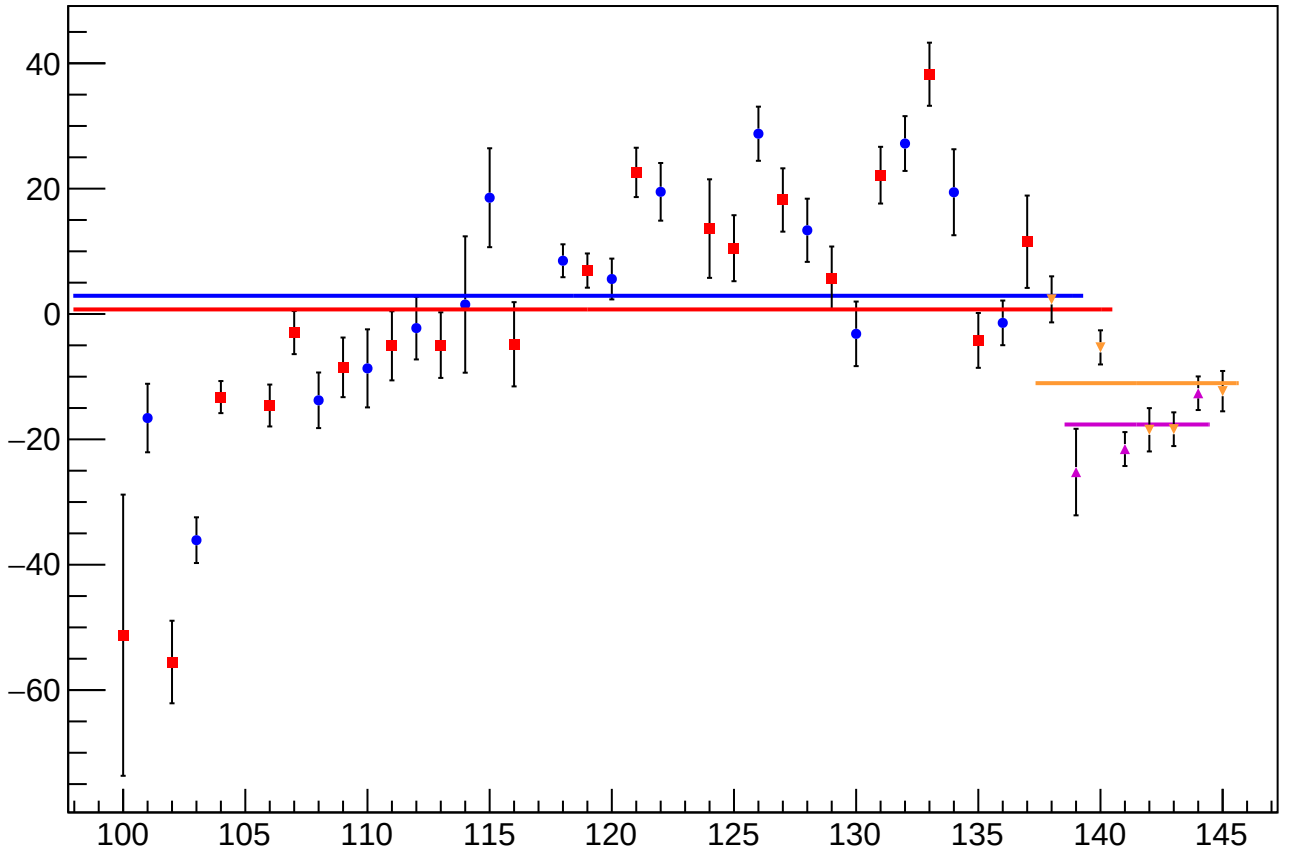
Left: 188.225+/-1.341 $\chi^2$/NDF: 258.9/7

Right: 171.138+/-0.737 $\chi^2$/NDF: 4269.5/34

In: 183.550+/-0.971 $\chi^2$/NDF:1829.7/18

Out: 168.404+/-0.865 $\chi^2$/NDF:2687.7/23

All: 175.101+/-0.646 $\chi^2$/NDF: 4653.2/42




Right In: 2.907+/-1.105 $\chi^2$/NDF: 247.5/15

Left Out: -11.035+/-1.377 $\chi^2$/NDF:29.9/4

Right Out: 0.729+/-1.012 $\chi^2$/NDF: 273.6/18

Left In: -17.628+/-1.836 $\chi^2$/NDF:6.8/2

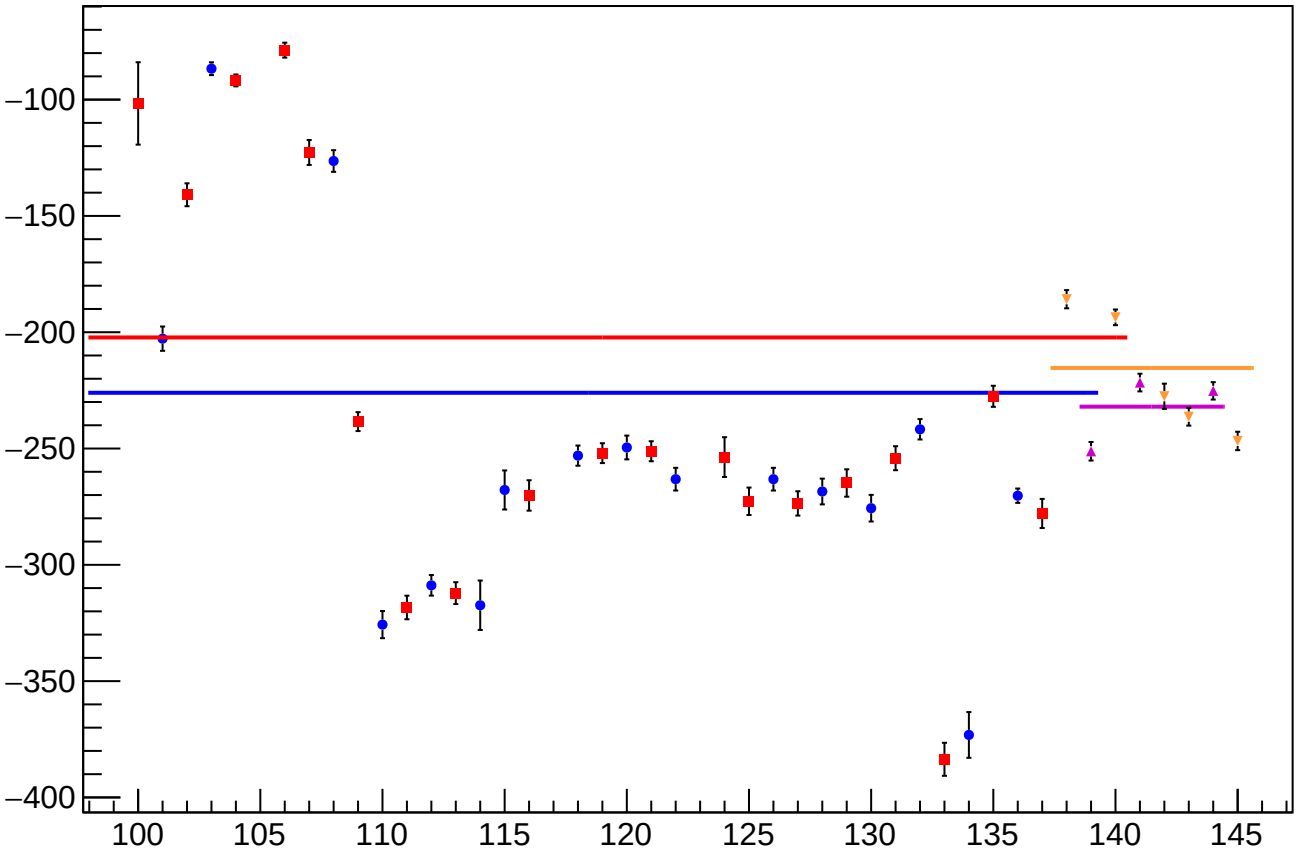
Left: -13.409+/-1.102 $\chi^2$/NDF: 44.9/7

Right: 1.723+/-0.746 $\chi^2$/NDF: 523.2/34

In: -2.551+/-0.947 $\chi^2$/NDF:346.1/18

Out: -3.397+/-0.816 $\chi^2$/NDF:350.9/23

All: -3.037+/-0.618 $\chi^2$/NDF: 697.4/42




Right In: -226.028+/-1.175 $\chi^2$/NDF: 4539.0/15

Left Out: -215.366+/-1.769 $\chi^2$/NDF:196.7/4

Right Out: -202.247+/-1.087 $\chi^2$/NDF: 6690.8/18

Left In: -232.001+/-2.217 $\chi^2$/NDF:33.8/2

Left: -221.836+/-1.383 $\chi^2$/NDF: 264.9/7

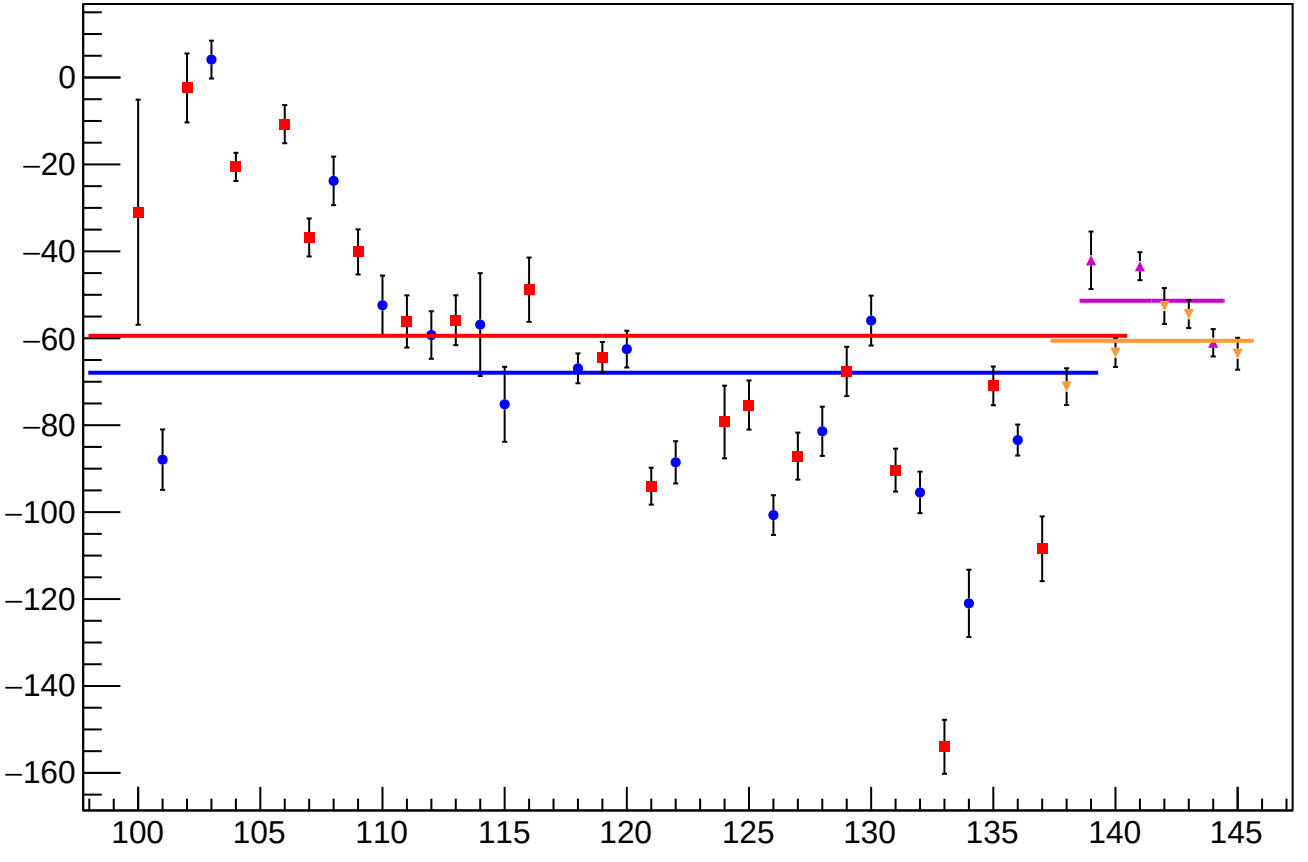
Right: -213.214+/-0.798 $\chi^2$/NDF: 11450.5/34

In: -227.337+/-1.038 $\chi^2$/NDF:4578.5/18

Out: -205.843+/-0.926 $\chi^2$/NDF:6927.4/23

All: -215.368+/-0.691 $\chi^2$/NDF: 11744.6/42

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: -60.573+/-1.621 $\chi^2$/NDF:15.1/4

Right Out: -59.428+/-1.184 $\chi^2$/NDF: 794.9/18

Left In: -51.366+/-2.130 $\chi^2$/NDF:17.5/2

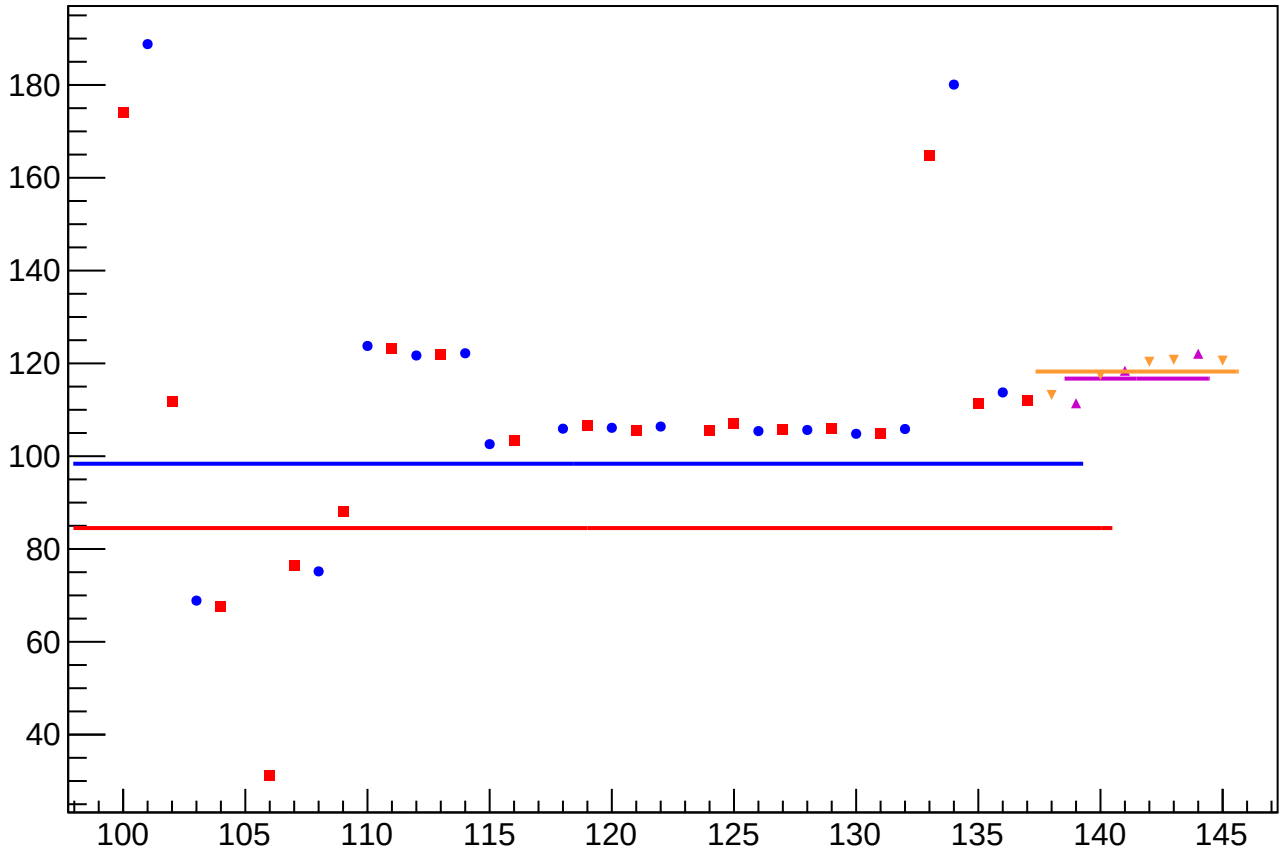
Left: -57.198+/-1.290 $\chi^2$/NDF: 44.4/7

Right: -63.353+/-0.869 $\chi^2$/NDF: 1352.7/34

In: -63.544+/-1.096 $\chi^2$/NDF:596.0/18

Out: -59.826+/-0.956 $\chi^2$/NDF:810.2/23

All: -61.433+/-0.720 $\chi^2$/NDF: 1412.8/42




Right In: 98.377+/-0.066 $\chi^2$/NDF: 228419.7/15

Left Out: 118.246+/-0.074 $\chi^2$/NDF:1619.7/4

Right Out: 84.512+/-0.061 $\chi^2$/NDF: 268911.0/18

Left In: 116.722+/-0.089 $\chi^2$/NDF:2531.9/2

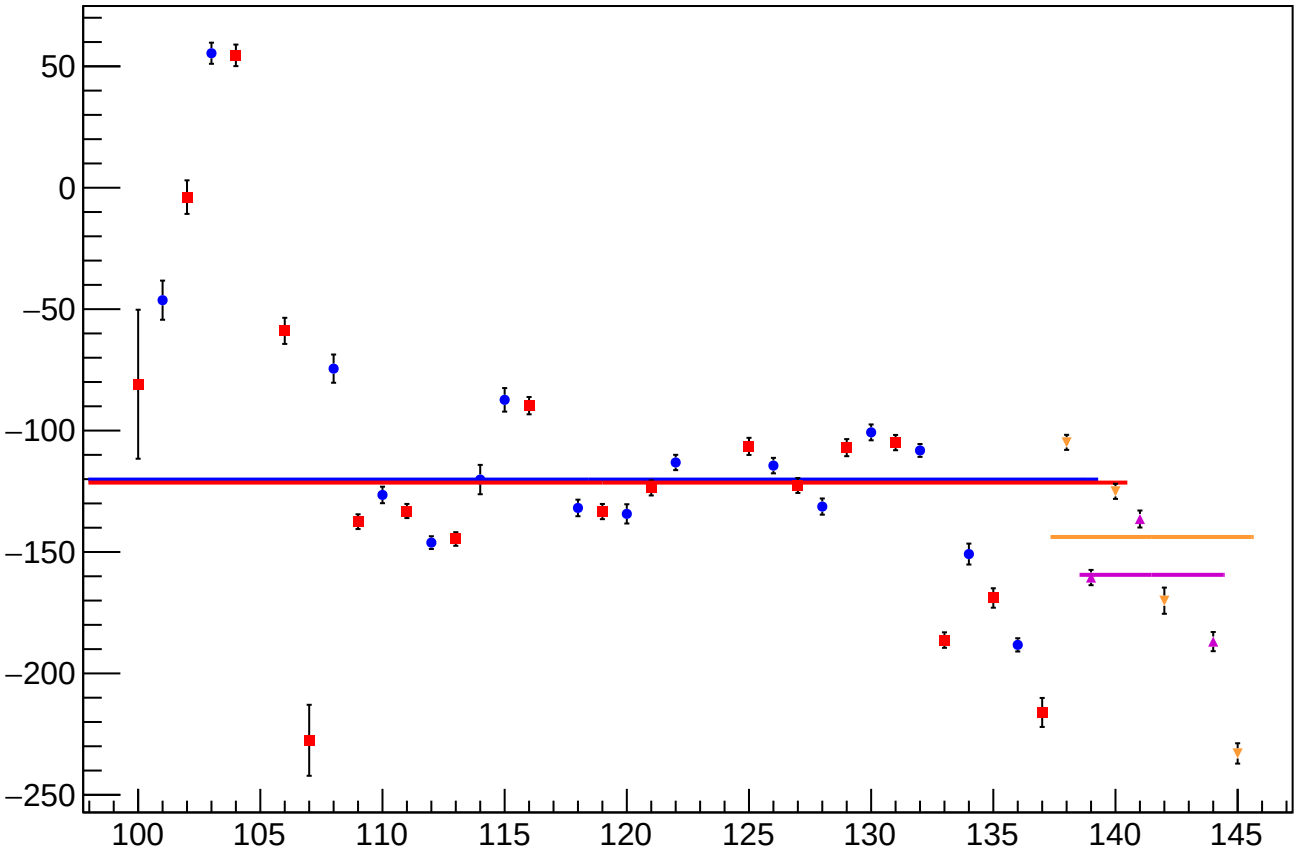
Left: 117.628+/-0.057 $\chi^2$/NDF: 4325.4/7

Right: 90.854+/-0.045 $\chi^2$/NDF: 521250.8/34

In: 104.884+/-0.053 $\chi^2$/NDF:258321.4/18

Out: 98.148+/-0.047 $\chi^2$/NDF:395667.7/23

All: 101.096+/-0.035 $\chi^2$/NDF: 663054.7/42




Right In: -120.177+/-0.891 $\chi^2$/NDF: 2691.2/15

Left Out: -143.807+/-1.830 $\chi^2$/NDF:671.2/3

Right Out: -121.418+/-0.875 $\chi^2$/NDF: 3126.3/17

Left In: -159.404+/-2.014 $\chi^2$/NDF:91.7/2

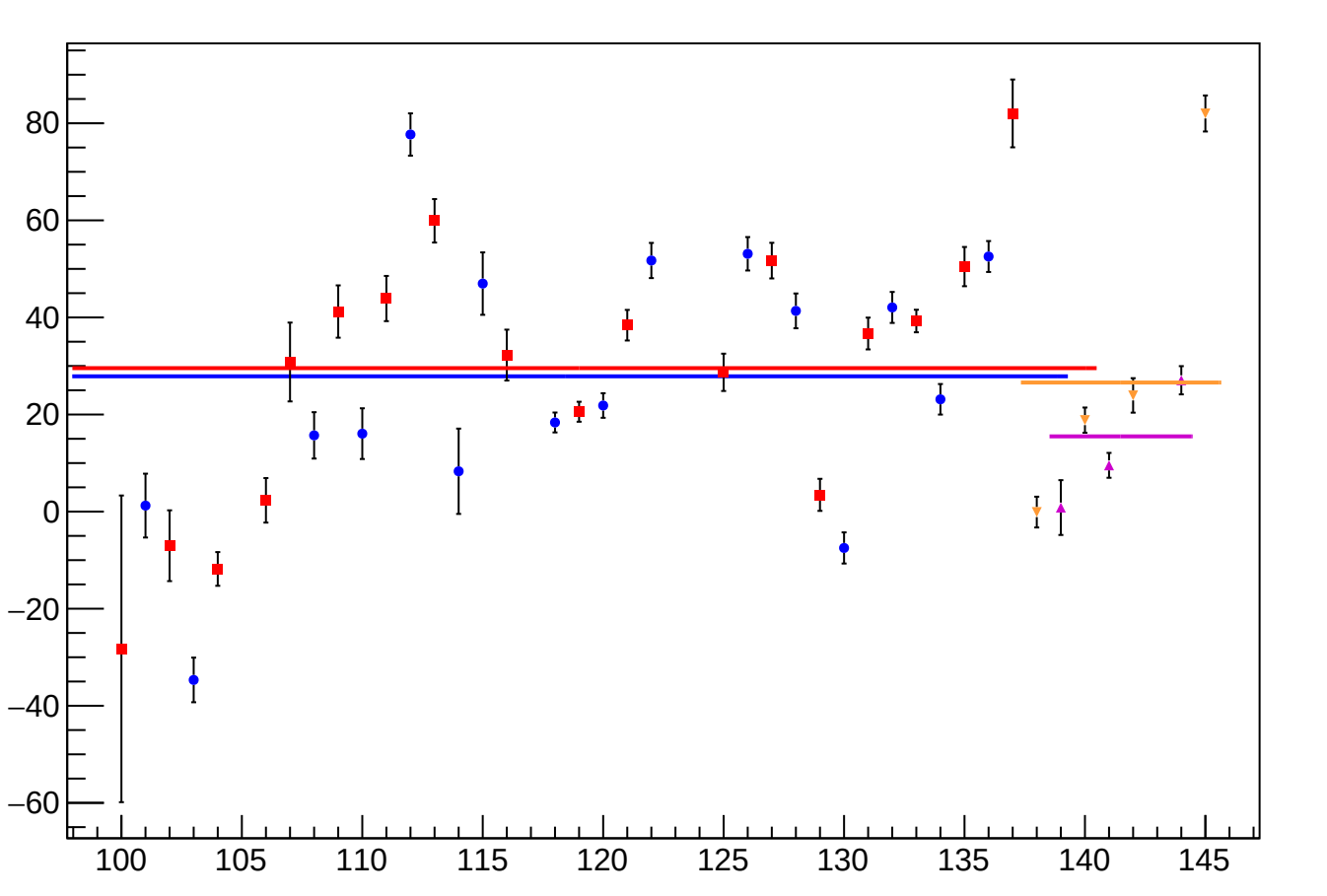
Left: -150.860+/-1.355 $\chi^2$/NDF: 795.8/6

Right: -120.808+/-0.624 $\chi^2$/NDF: 5818.5/33

In: -126.591+/-0.815 $\chi^2$/NDF:3100.2/18

Out: -125.586+/-0.790 $\chi^2$/NDF:3919.3/21

All: -126.073+/-0.567 $\chi^2$/NDF: 7020.3/40




Right In: 27.872+/-0.888 $\chi^2$/NDF: 699.6/15

Left Out: 26.593+/-1.581 $\chi^2$/NDF:303.0/3

Right Out: 29.553+/-0.890 $\chi^2$/NDF: 497.5/17

Left In: 15.498+/-1.820 $\chi^2$/NDF:28.0/2

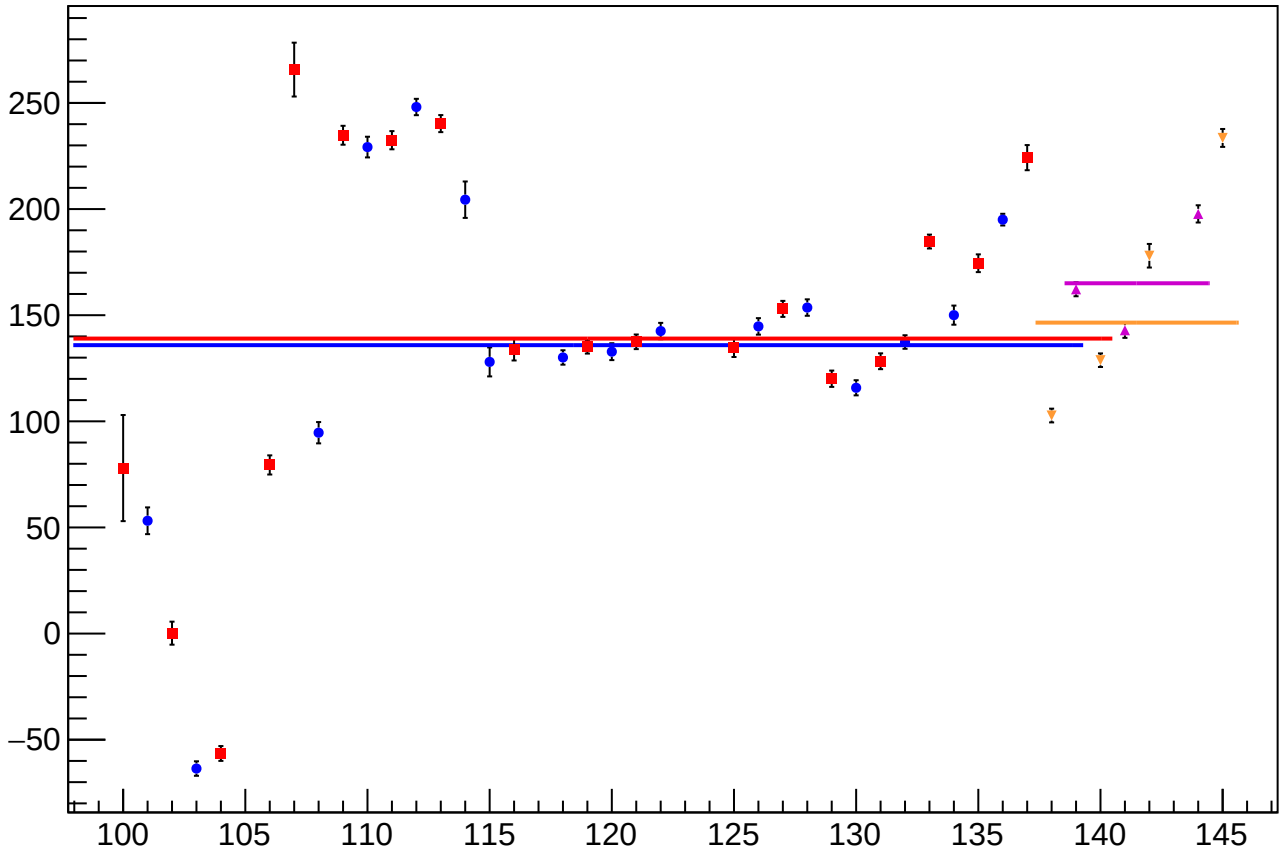
Left: 21.821+/-1.194 $\chi^2$/NDF: 352.1/6

Right: 28.711+/-0.629 $\chi^2$/NDF: 1198.9/33

In: 25.493+/-0.798 $\chi^2$/NDF:764.9/18

Out: 28.841+/-0.775 $\chi^2$/NDF:803.1/21

All: 27.216+/-0.556 $\chi^2$/NDF: 1577.1/40




Right In: 135.883+/-0.999 $\chi^2$/NDF: 5463.6/15

Left Out: 146.505+/-1.885 $\chi^2$/NDF:670.6/3

Right Out: 138.985+/-0.998 $\chi^2$/NDF: 6156.4/17

Left In: 165.043+/-2.082 $\chi^2$/NDF:103.4/2

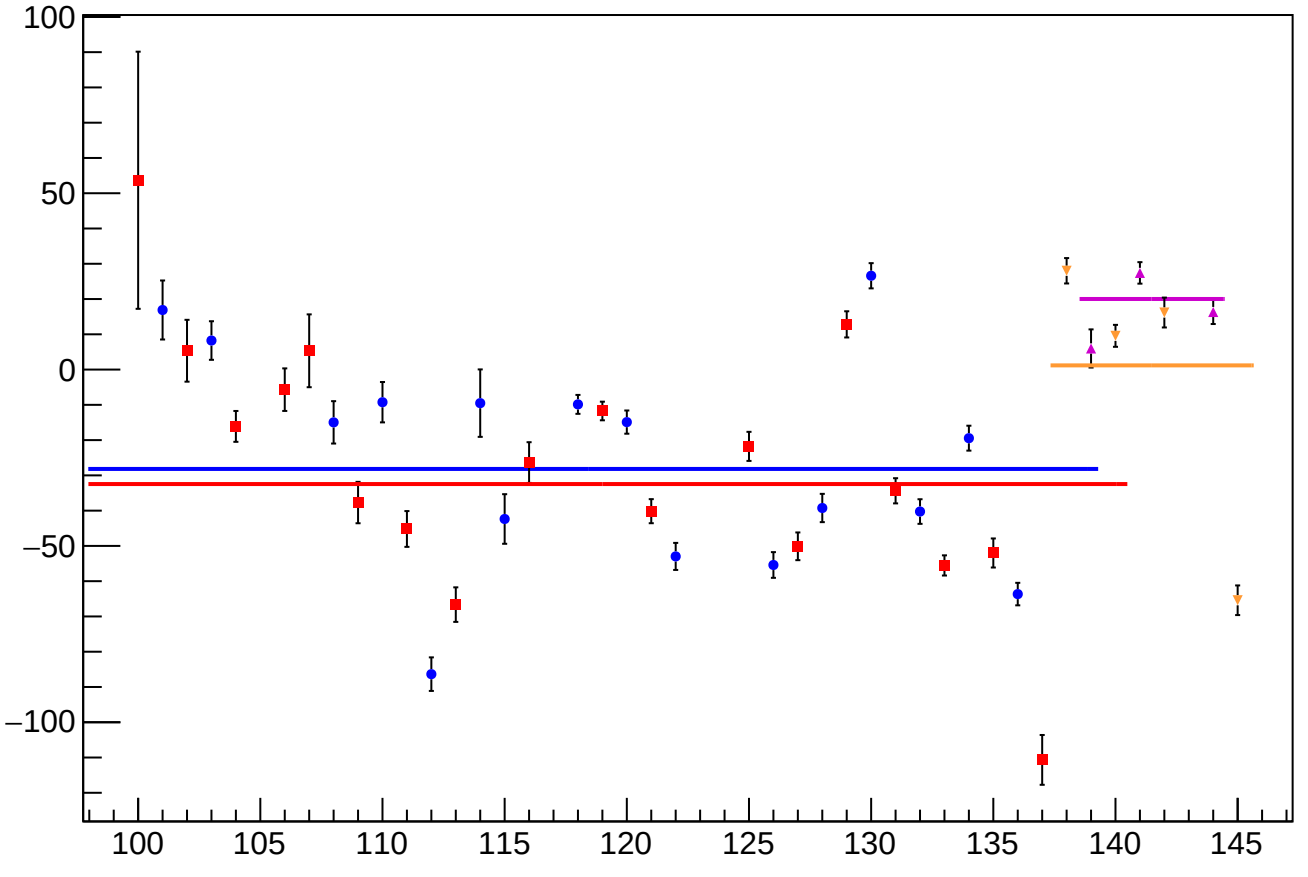
Left: 154.854+/-1.397 $\chi^2$/NDF: 817.5/6

Right: 137.434+/-0.706 $\chi^2$/NDF: 11624.9/33

In: 141.335+/-0.900 $\chi^2$/NDF:5726.5/18

Out: 140.632+/-0.882 $\chi^2$/NDF:6839.4/21

All: 140.976+/-0.630 $\chi^2$/NDF: 12566.2/40




Right In: -28.175+/-1.022 $\chi^2$/NDF: 791.2/15

Left Out: 1.188+/-1.848 $\chi^2$/NDF:326.4/3

Right Out: -32.459+/-1.027 $\chi^2$/NDF: 580.8/17

Left In: 20.017+/-2.096 $\chi^2$/NDF:13.8/2

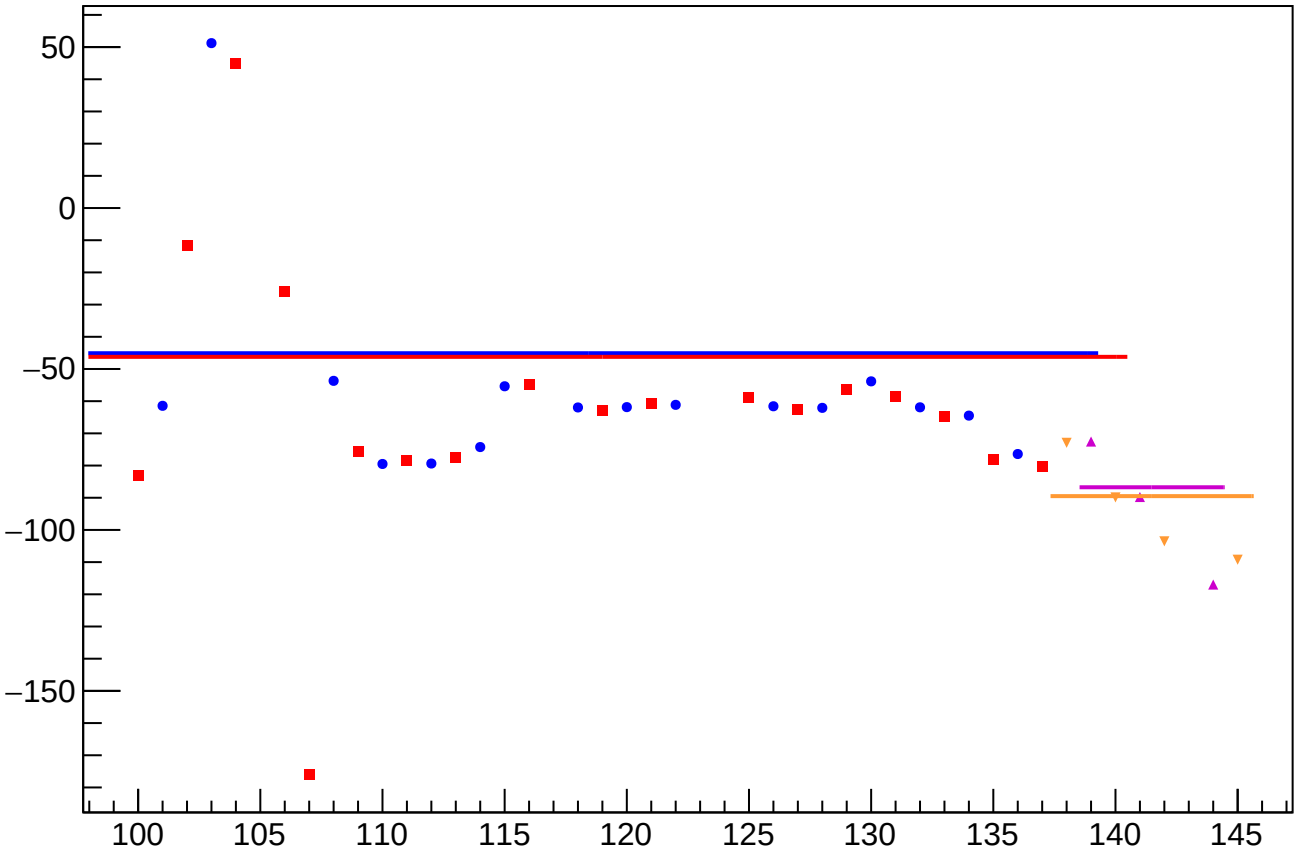
Left: 9.425+/-1.386 $\chi^2$/NDF: 385.6/6

Right: -30.307+/-0.725 $\chi^2$/NDF: 1380.8/33

In: -18.913+/-0.919 $\chi^2$/NDF:1232.2/18

Out: -24.516+/-0.898 $\chi^2$/NDF:1160.5/21

All: -21.779+/-0.642 $\chi^2$/NDF: 2411.7/40




Right In: -45.106+/-0.060 $\chi^2$/NDF: 575184.2/15

Left Out: -89.498+/-0.078 $\chi^2$/NDF:34496.8/3

Right Out: -46.229+/-0.063 $\chi^2$/NDF: 493616.3/17

Left In: -86.746+/-0.082 $\chi^2$/NDF:42641.6/2

Left: -88.189+/-0.056 $\chi^2$/NDF: 77733.2/6

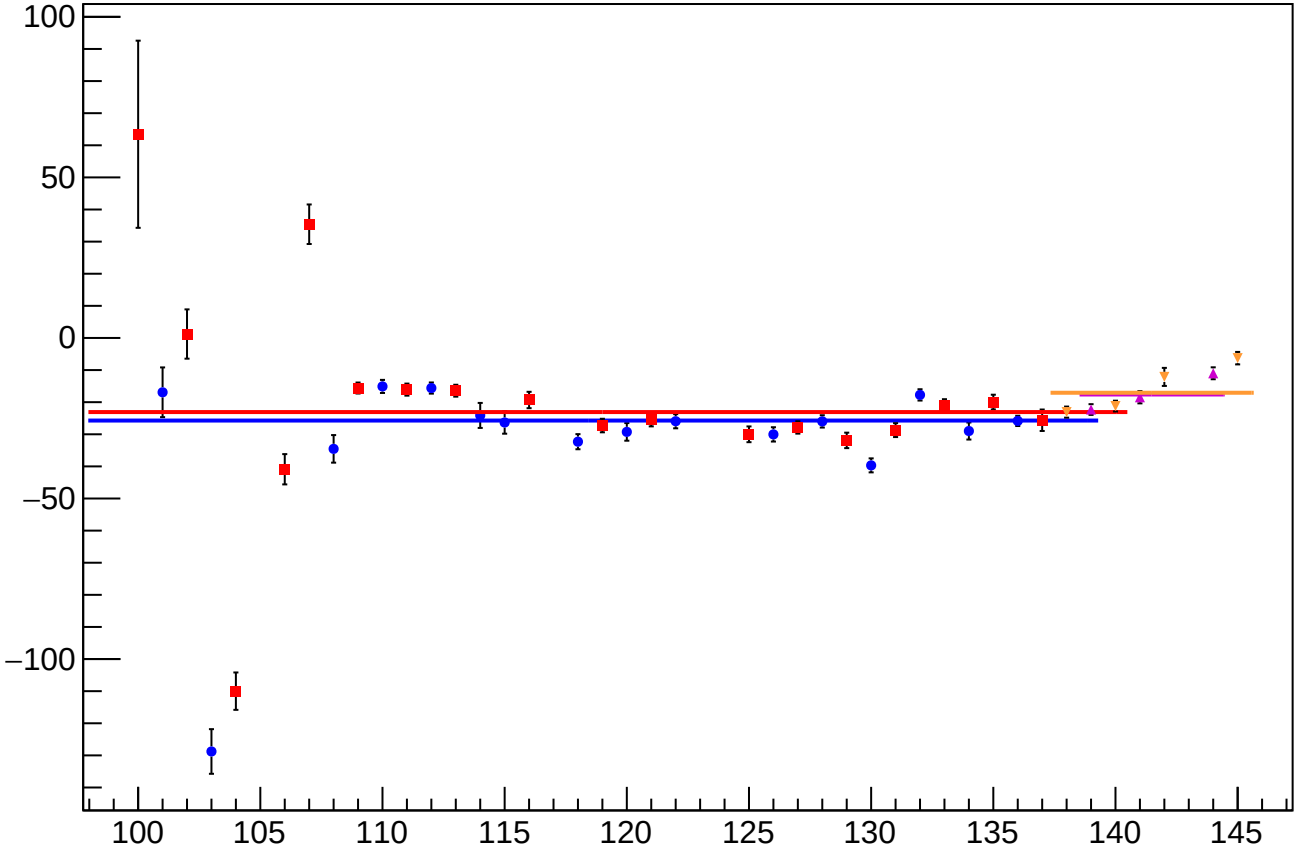
Right: -45.645+/-0.043 $\chi^2$/NDF: 1068967.9/33

In: -59.737+/-0.048 $\chi^2$/NDF:786308.3/18

Out: -63.217+/-0.049 $\chi^2$/NDF:715767.4/21

All: -61.465+/-0.034 $\chi^2$/NDF: 1504638.6/40

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: -17.064+/-0.962 $\chi^2$/NDF:52.1/3

Right Out: -23.079+/-0.582 $\chi^2$/NDF: 437.1/17

Left In: -17.609+/-1.041 $\chi^2$/NDF:20.7/2

Left: -17.315+/-0.707 $\chi^2$/NDF: 73.0/6

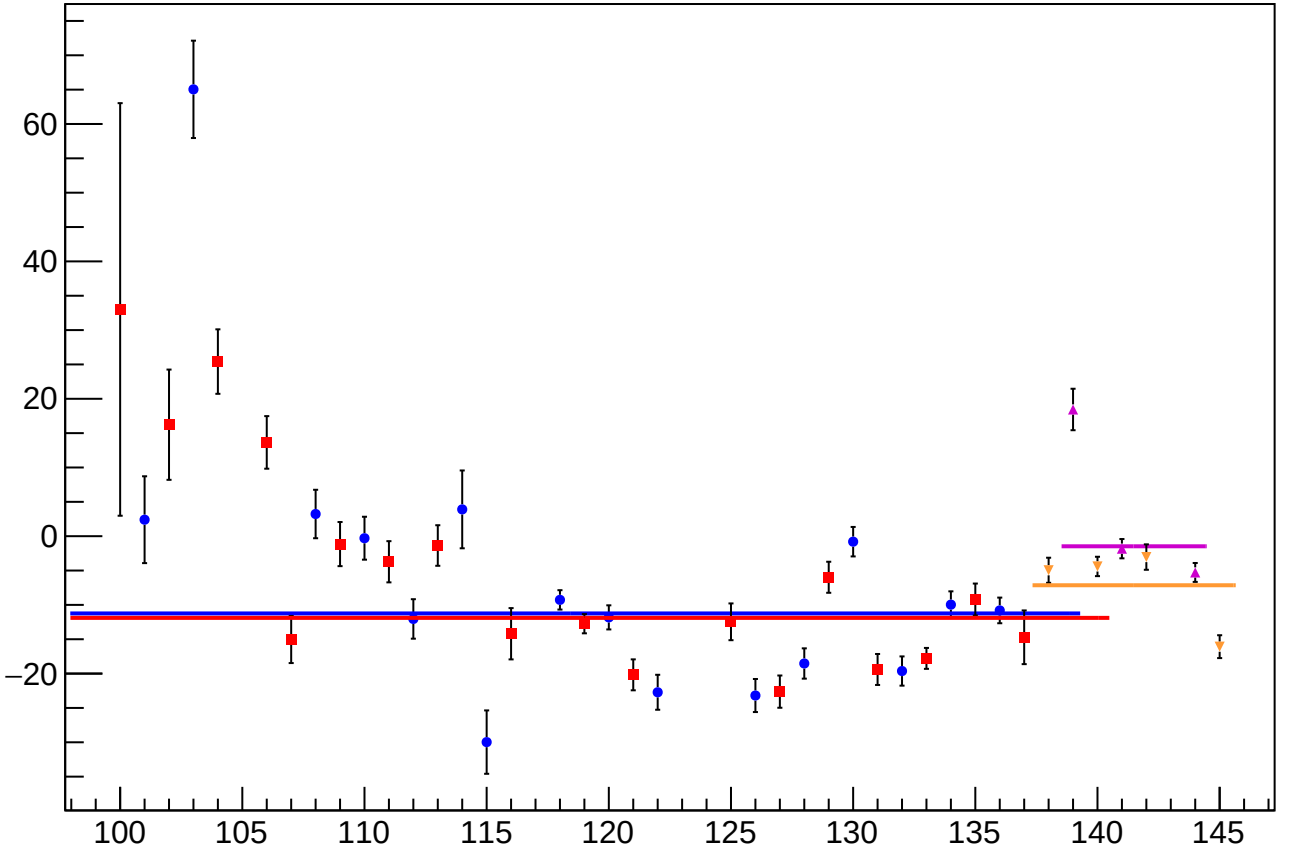
Right: -24.381+/-0.414 $\chi^2$/NDF: 810.3/33

In: -23.748+/-0.513 $\chi^2$/NDF:429.7/18

Out: -21.469+/-0.498 $\chi^2$/NDF:517.8/21

All: -22.574+/-0.357 $\chi^2$/NDF: 957.7/40

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: -7.141+/-0.829 $\chi^2$/NDF:39.0/3

Right Out: -11.890+/-0.607 $\chi^2$/NDF: 224.5/17

Left In: -1.471+/-0.934 $\chi^2$/NDF:51.2/2

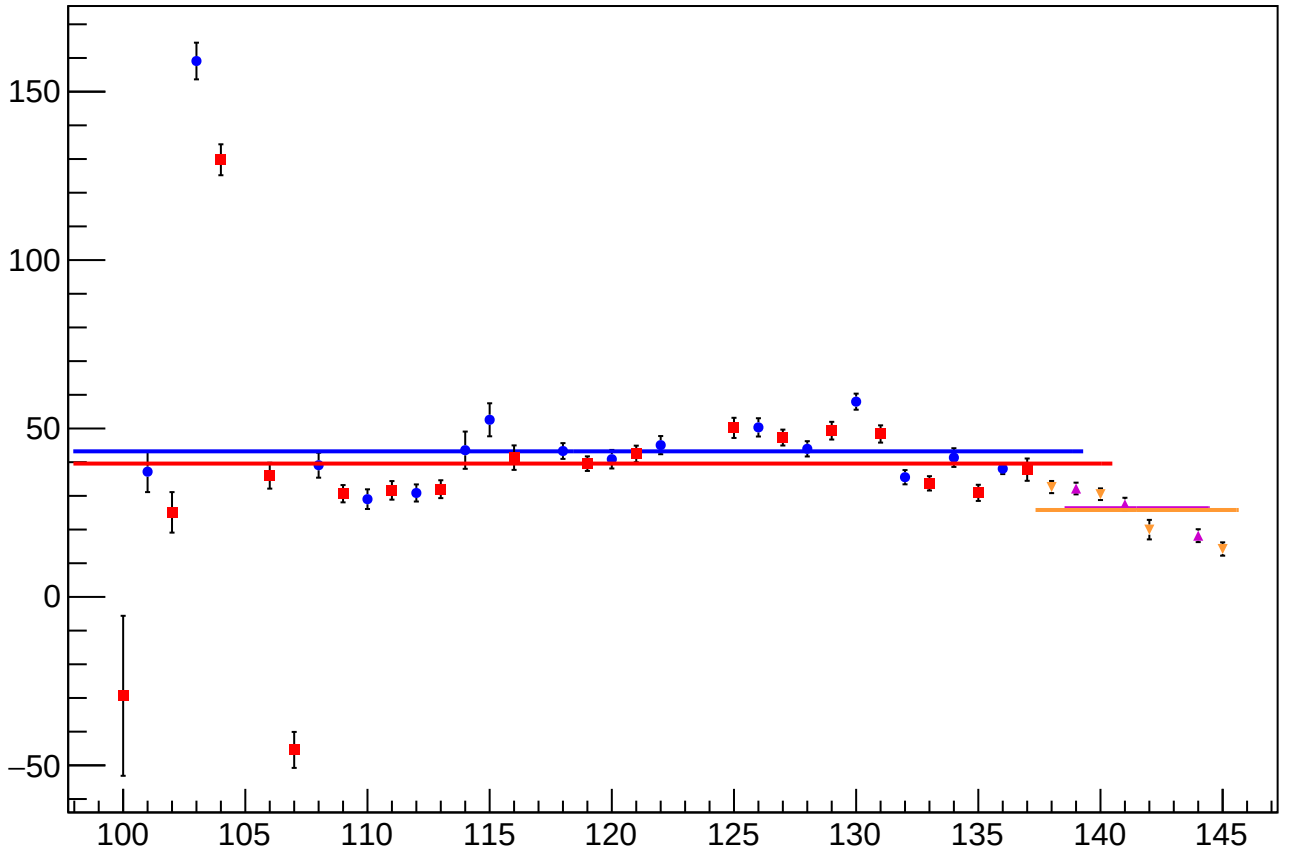
Left: -4.645+/-0.620 $\chi^2$/NDF: 110.8/6

Right: -11.564+/-0.427 $\chi^2$/NDF: 496.1/33

In: -8.393+/-0.505 $\chi^2$/NDF:399.8/18

Out: -10.232+/-0.490 $\chi^2$/NDF:284.8/21

All: -9.340+/-0.352 $\chi^2$/NDF: 691.4/40




Right In: 43.222+/-0.678 $\chi^2$/NDF: 576.0/15

Left Out: 25.810+/-0.993 $\chi^2$/NDF:59.8/3

Right Out: 39.587+/-0.685 $\chi^2$/NDF: 754.0/17

Left In: 26.339+/-1.076 $\chi^2$/NDF:29.8/2

Left: 26.054+/-0.729 $\chi^2$/NDF: 89.8/6

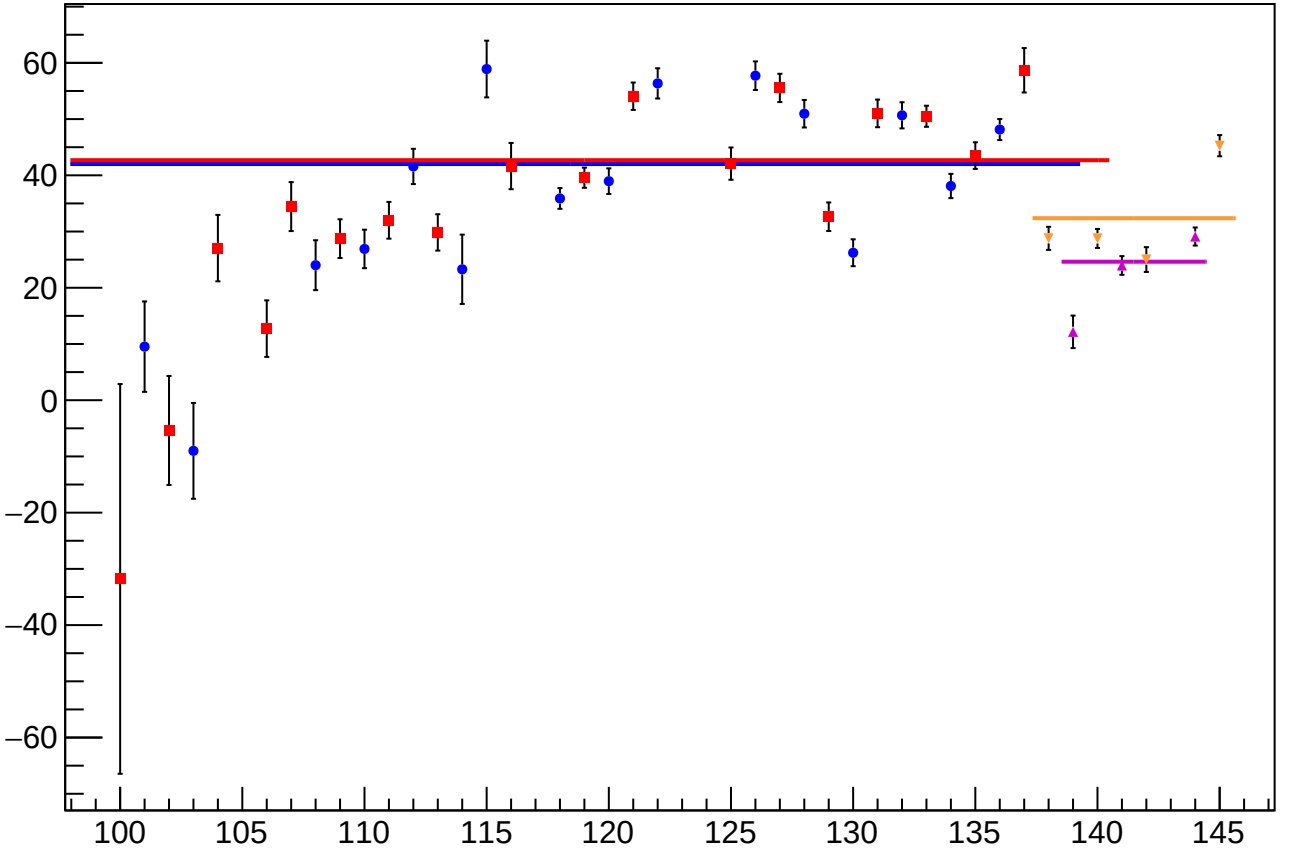
Right: 41.422+/-0.482 $\chi^2$/NDF: 1344.2/33

In: 38.420+/-0.574 $\chi^2$/NDF:782.1/18

Out: 35.146+/-0.564 $\chi^2$/NDF:944.4/21

All: 36.754+/-0.402 $\chi^2$/NDF: 1743.0/40

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 42.006+/-0.684 $\chi^2$/NDF: 272.7/15

Left Out: 32.373+/-0.964 $\chi^2$/NDF:65.5/3

Right Out: 42.696+/-0.695 $\chi^2$/NDF: 230.3/17

Left In: 24.634+/-1.074 $\chi^2$/NDF:26.5/2

Left: 28.921+/-0.717 $\chi^2$/NDF: 120.8/6

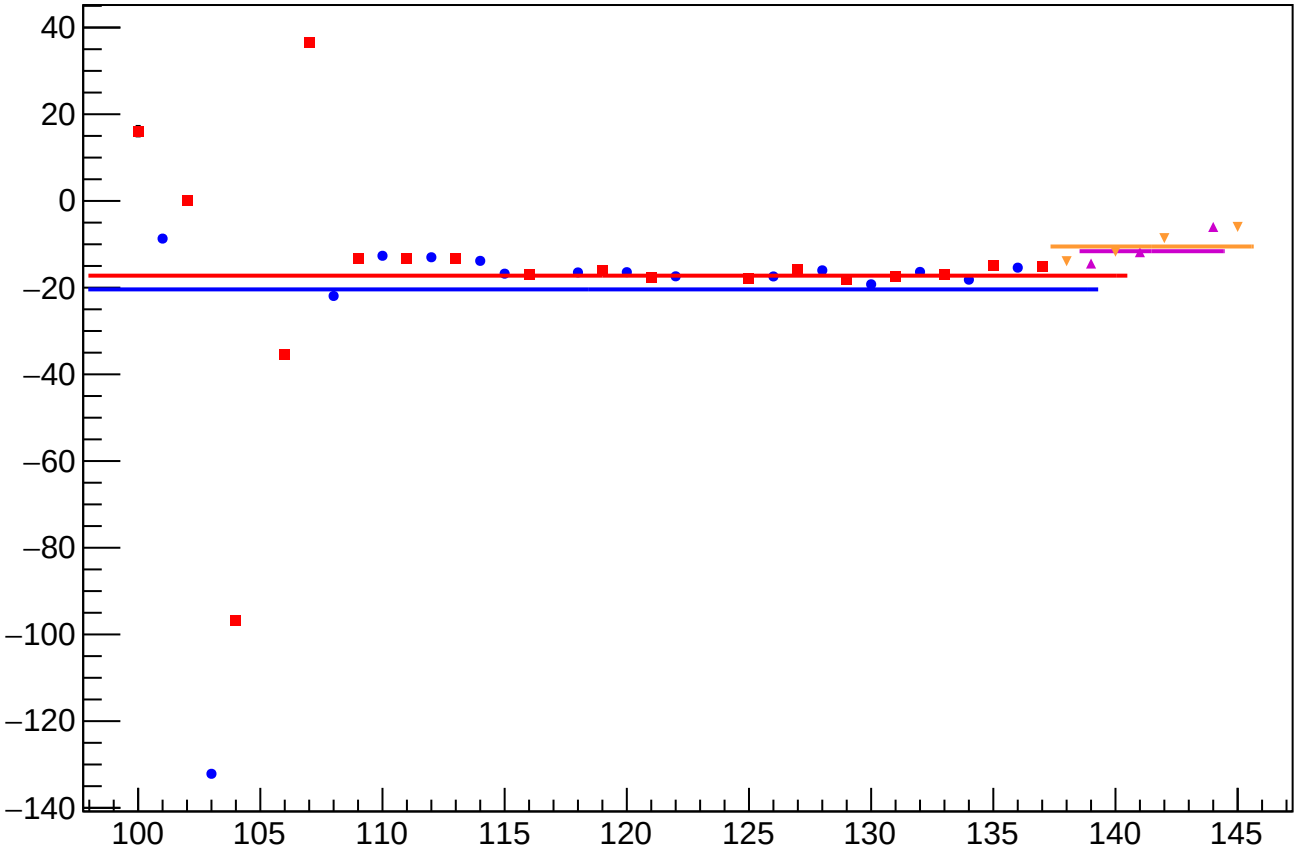
Right: 42.345+/-0.487 $\chi^2$/NDF: 503.5/33

In: 36.997+/-0.577 $\chi^2$/NDF:485.3/18

Out: 39.167+/-0.564 $\chi^2$/NDF:371.3/21

All: 38.107+/-0.403 $\chi^2$/NDF: 863.9/40

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: -10.509+/-0.041 $\chi^2$/NDF:6143.8/3

Right Out: -17.236+/-0.044 $\chi^2$/NDF: 204657.3/17

Left In: -11.596+/-0.043 $\chi^2$/NDF:6382.1/2

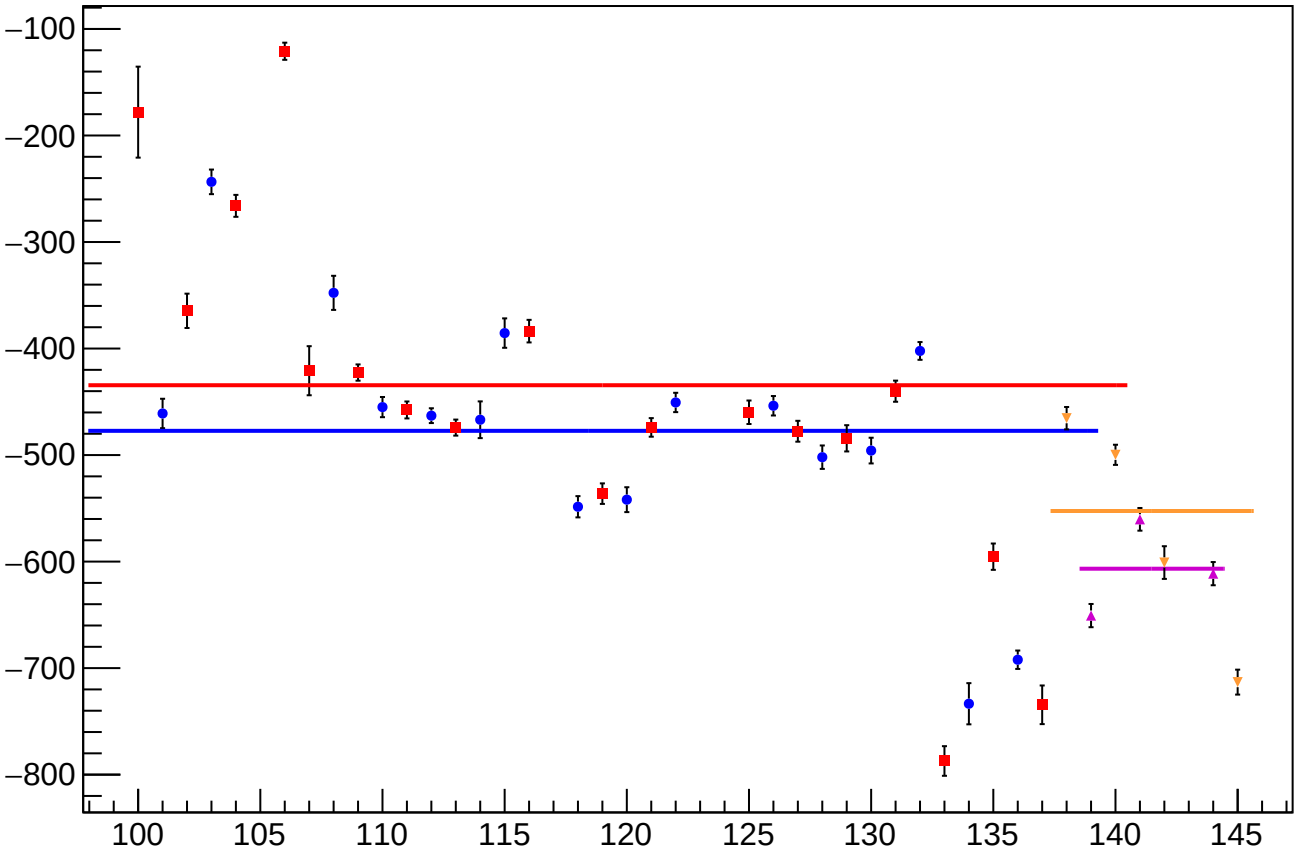
Left: -11.028+/-0.029 $\chi^2$/NDF: 12867.1/6

Right: -18.901+/-0.030 $\chi^2$/NDF: 452982.8/33

In: -16.067+/-0.030 $\chi^2$/NDF:273750.6/18

Out: -13.603+/-0.030 $\chi^2$/NDF:223372.9/21

All: -14.837+/-0.021 $\chi^2$/NDF: 500525.0/40




Right In: -477.255+/-2.633 $\chi^2$/NDF: 1510.8/15

Left Out: -552.509+/-5.611 $\chi^2$/NDF:297.9/3

Right Out: -434.437+/-2.464 $\chi^2$/NDF: 3161.9/17

Left In: -606.691+/-6.242 $\chi^2$/NDF:35.5/2

Left: -576.724+/-4.173 $\chi^2$/NDF: 375.0/6

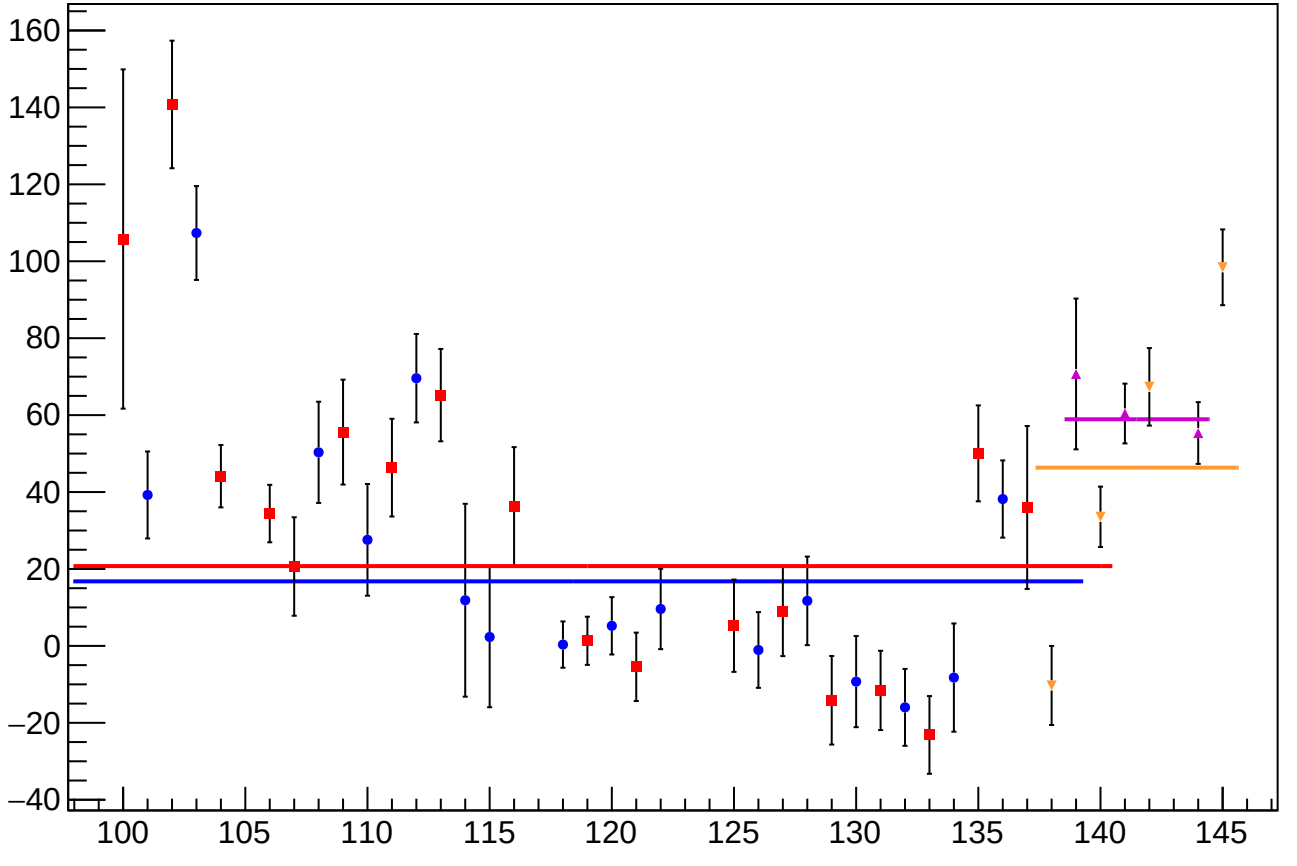
Right: -454.426+/-1.799 $\chi^2$/NDF: 4813.7/33

In: -496.810+/-2.426 $\chi^2$/NDF:1911.3/18

Out: -453.525+/-2.256 $\chi^2$/NDF:3831.0/21

All: -473.597+/-1.652 $\chi^2$/NDF: 5913.1/40

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 16.780+/-2.654 $\chi^2$/NDF: 125.0/15

Left Out: 46.342+/-4.671 $\chi^2$/NDF:65.3/3

Right Out: 20.749+/-2.548 $\chi^2$/NDF: 157.9/17

Left In: 58.918+/-5.369 $\chi^2$/NDF:0.6/2

Left: 51.760+/-3.524 $\chi^2$/NDF: 69.0/6

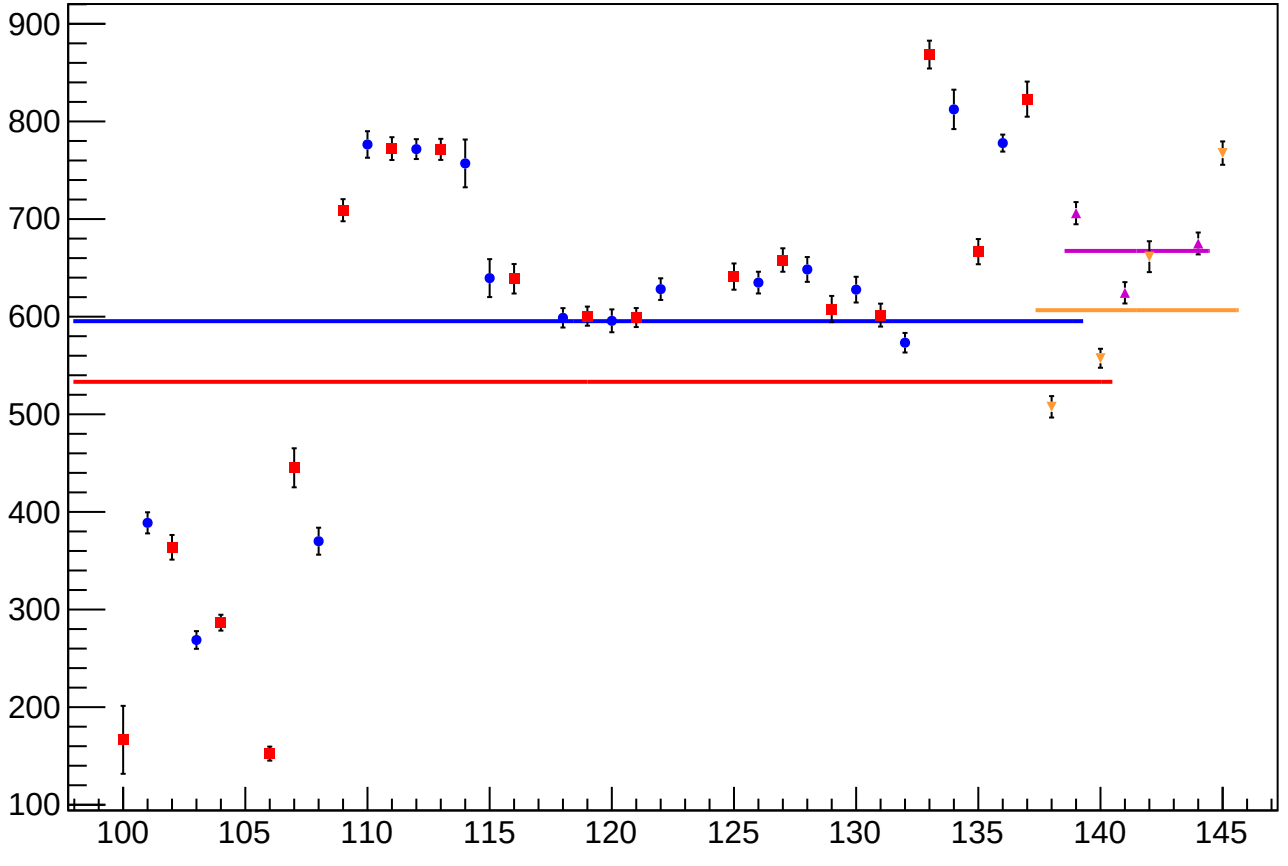
Right: 18.845+/-1.838 $\chi^2$/NDF: 284.1/33

In: 25.055+/-2.379 $\chi^2$/NDF:175.1/18

Out: 26.618+/-2.237 $\chi^2$/NDF:246.4/21

All: 25.885+/-1.630 $\chi^2$/NDF: 421.7/40

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: 606.648+/-5.786 $\chi^2$/NDF:299.9/3

Right Out: 533.283+/-2.746 $\chi^2$/NDF: 6502.9/17

Left In: 667.371+/-6.445 $\chi^2$/NDF:27.5/2

Left: 633.751+/-4.306 $\chi^2$/NDF: 376.6/6

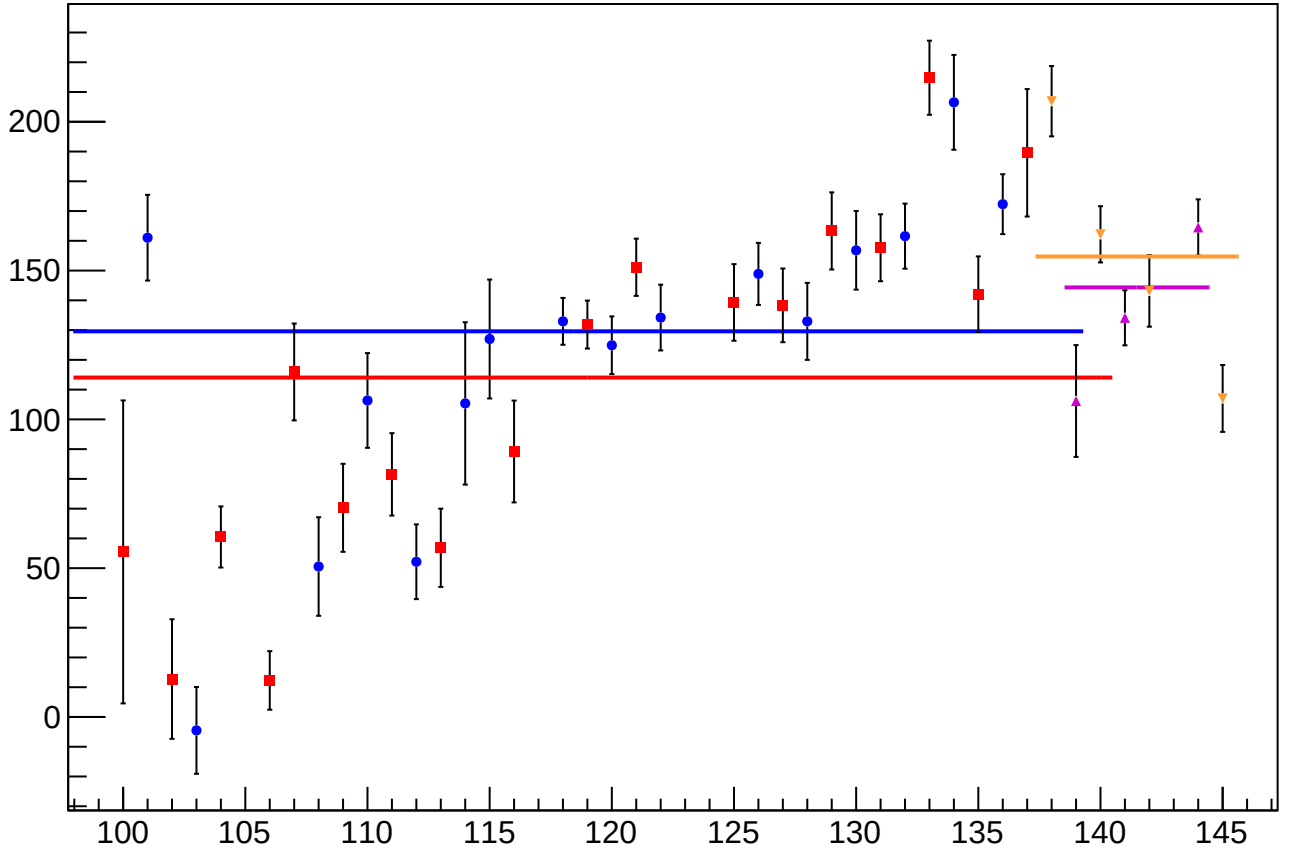
Right: 562.337+/-2.003 $\chi^2$/NDF: 9802.0/33

In: 607.731+/-2.667 $\chi^2$/NDF:3190.6/18

Out: 546.769+/-2.481 $\chi^2$/NDF:6934.0/21

All: 575.048+/-1.816 $\chi^2$/NDF: 10404.7/40

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: 154.732+/-5.489 $\chi^2$/NDF:39.1/3

Right Out: 114.048+/-2.976 $\chi^2$/NDF: 335.9/17

Left In: 144.341+/-6.229 $\chi^2$/NDF:9.9/2

Left: 150.190+/-4.118 $\chi^2$/NDF: 50.6/6

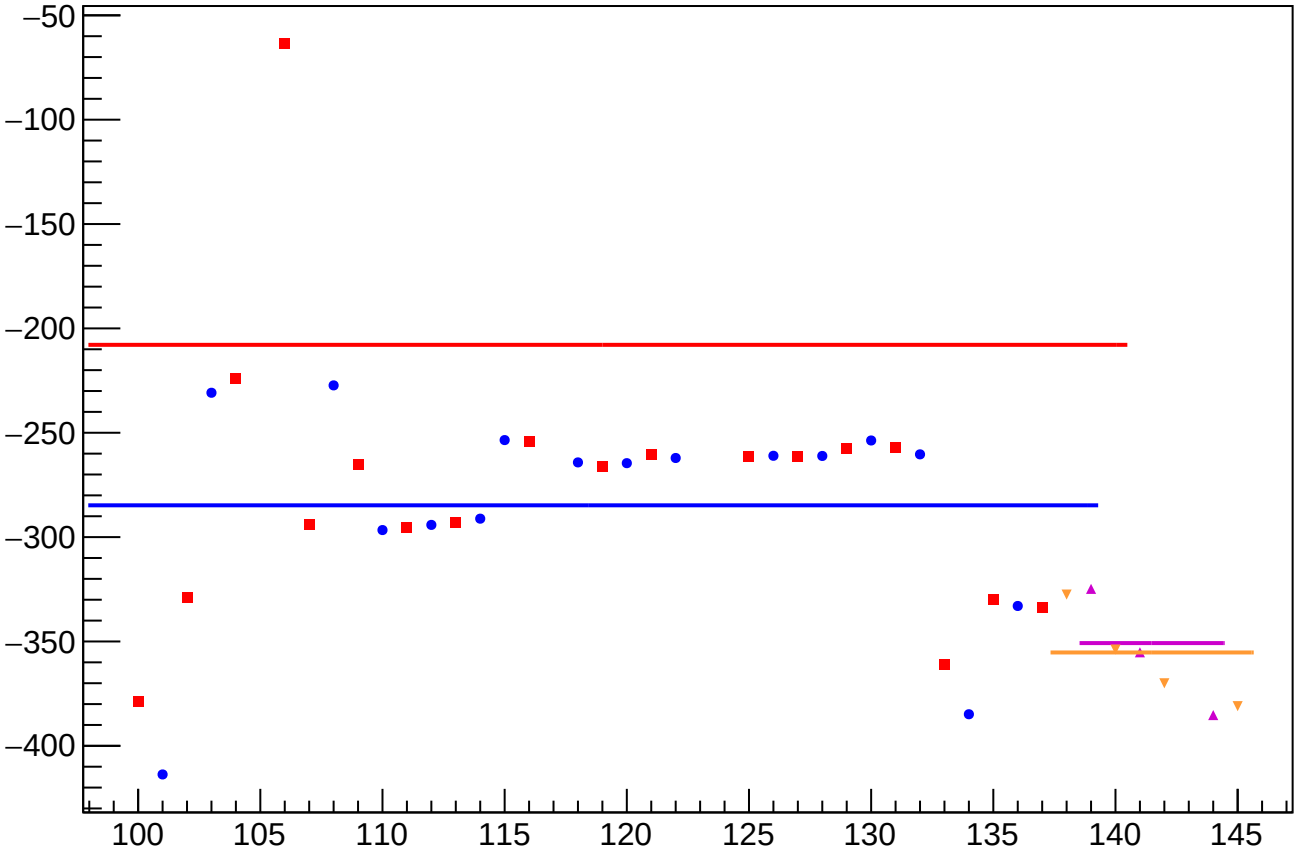
Right: 121.549+/-2.140 $\chi^2$/NDF: 560.3/33

In: 132.486+/-2.761 $\chi^2$/NDF:225.7/18

Out: 123.291+/-2.616 $\chi^2$/NDF:417.5/21

All: 127.641+/-1.899 $\chi^2$/NDF: 649.0/40

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: -355.267+/-0.241 $\chi^2$/NDF:7405.9/3

Right Out: -207.875+/-0.149 $\chi^2$/NDF: 536707.7/17

Left In: -350.772+/-0.258 $\chi^2$/NDF:8927.6/2

Left: -353.173+/-0.176 $\chi^2$/NDF: 16495.7/6

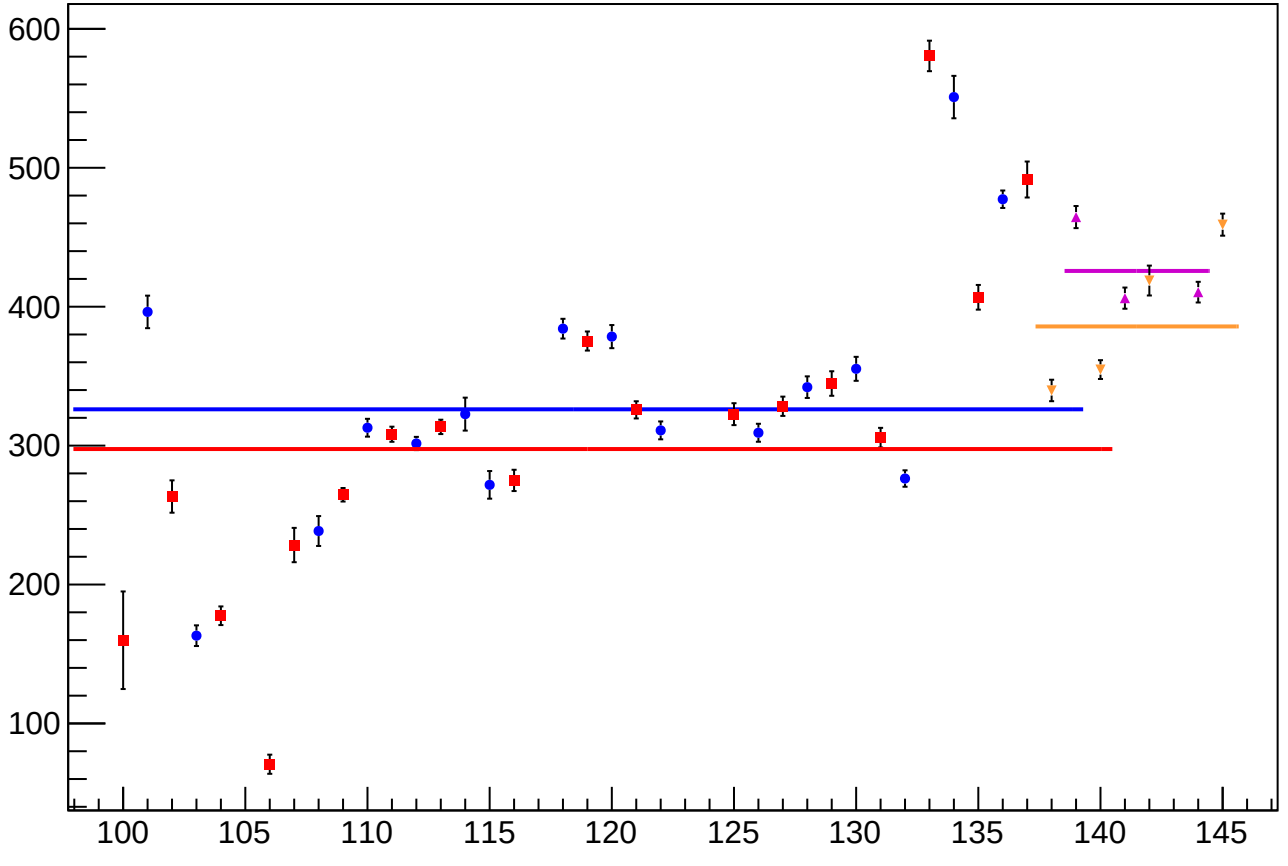
Right: -239.608+/-0.114 $\chi^2$/NDF: 751214.9/33

In: -305.990+/-0.146 $\chi^2$/NDF:157739.6/18

Out: -248.602+/-0.127 $\chi^2$/NDF:815079.7/21

All: -273.189+/-0.096 $\chi^2$/NDF: 1060829.3/40

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: 385.785+/-3.980 $\chi^2$/NDF:151.3/3

Right Out: 297.538+/-1.735 $\chi^2$/NDF: 2775.4/17

Left In: 425.744+/-4.426 $\chi^2$/NDF:34.6/2

Left: 403.655+/-2.960 $\chi^2$/NDF: 231.0/6

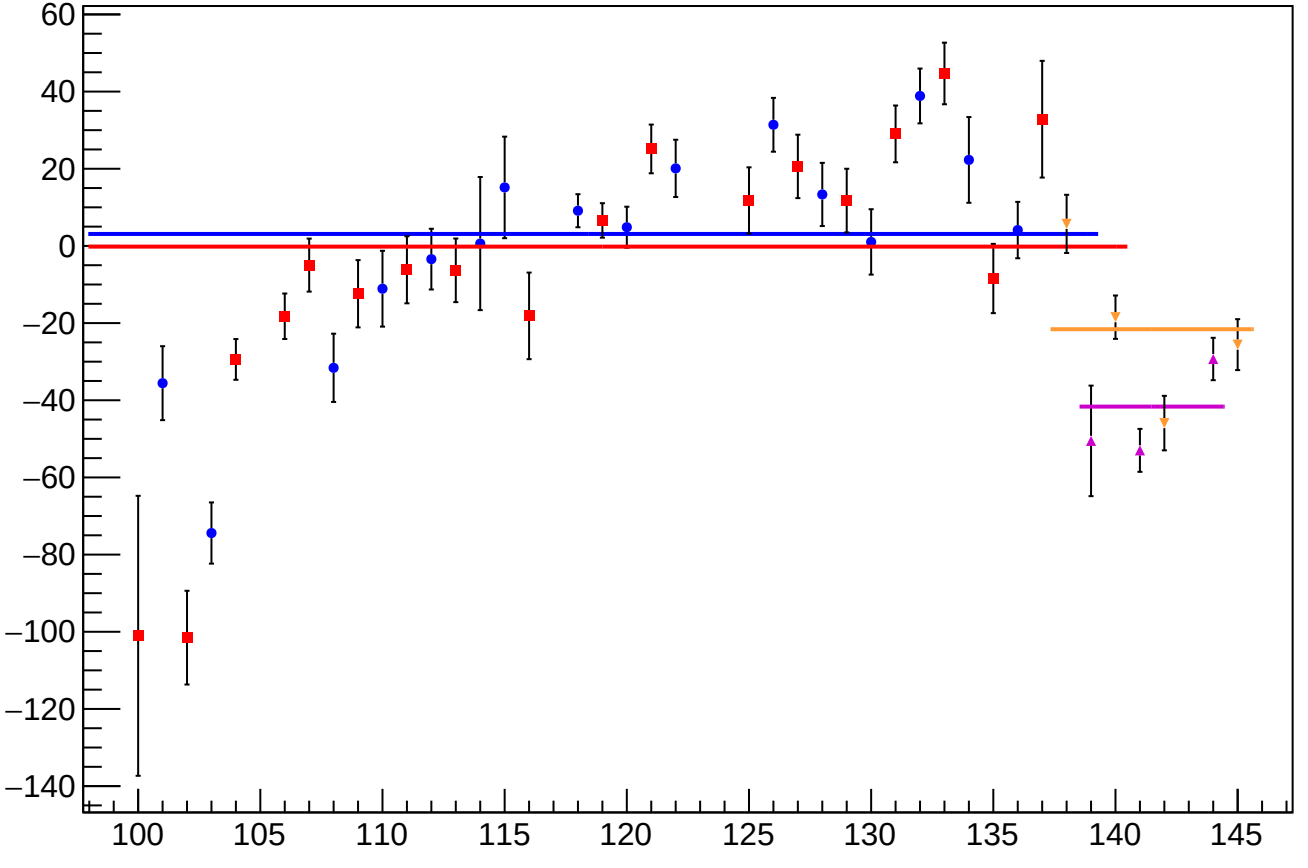
Right: 310.864+/-1.268 $\chi^2$/NDF: 4545.0/33

In: 341.043+/-1.712 $\chi^2$/NDF:2108.3/18

Out: 311.622+/-1.590 $\chi^2$/NDF:3339.8/21

All: 325.247+/-1.165 $\chi^2$/NDF: 5606.6/40

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: -21.589+/-3.292 $\chi^2$/NDF:25.7/3

Right Out: -0.180+/-1.791 $\chi^2$/NDF: 205.2/17

Left In: -41.642+/-3.771 $\chi^2$/NDF:9.6/2

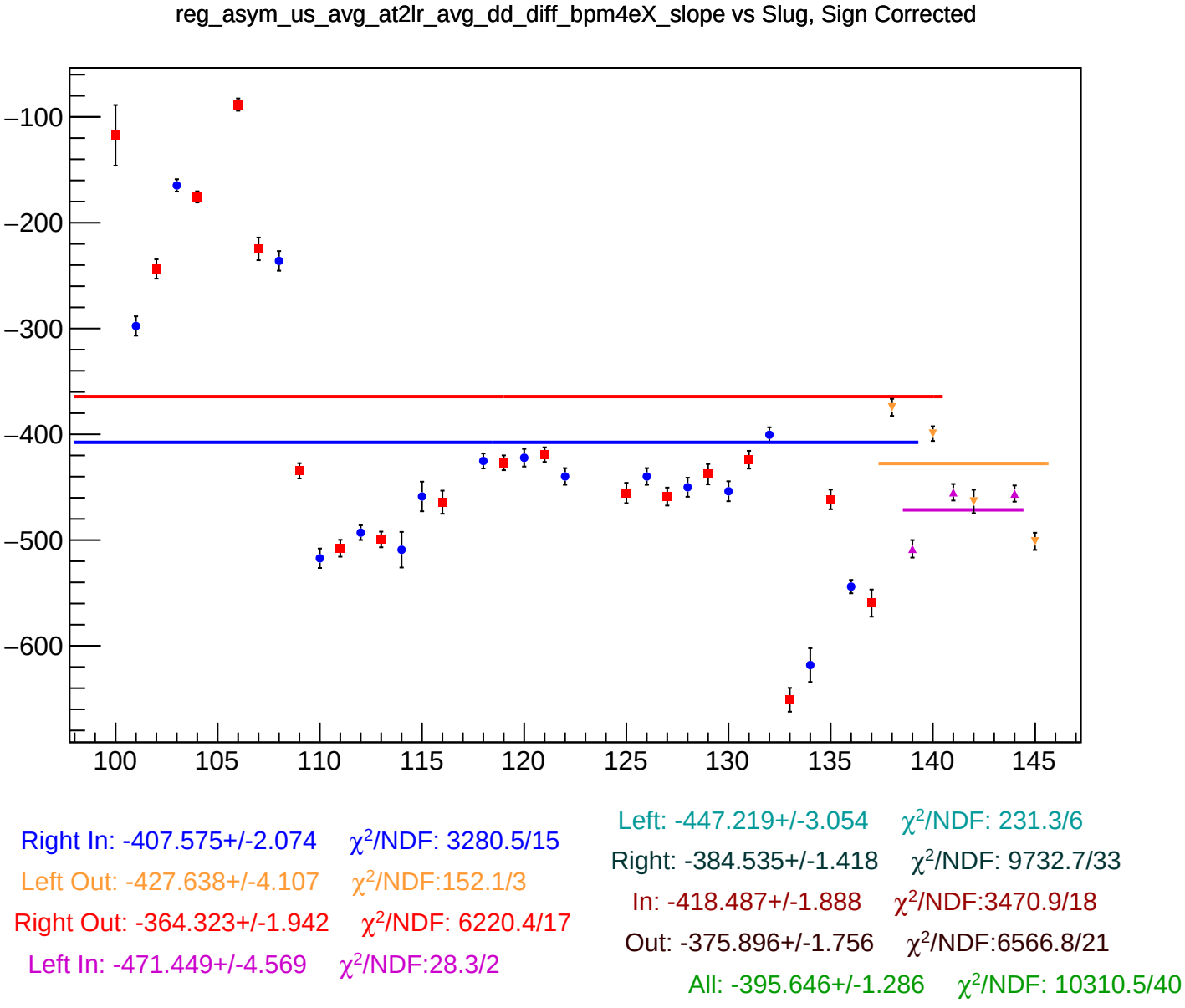
Left: -30.263+/-2.480 $\chi^2$/NDF: 51.3/6

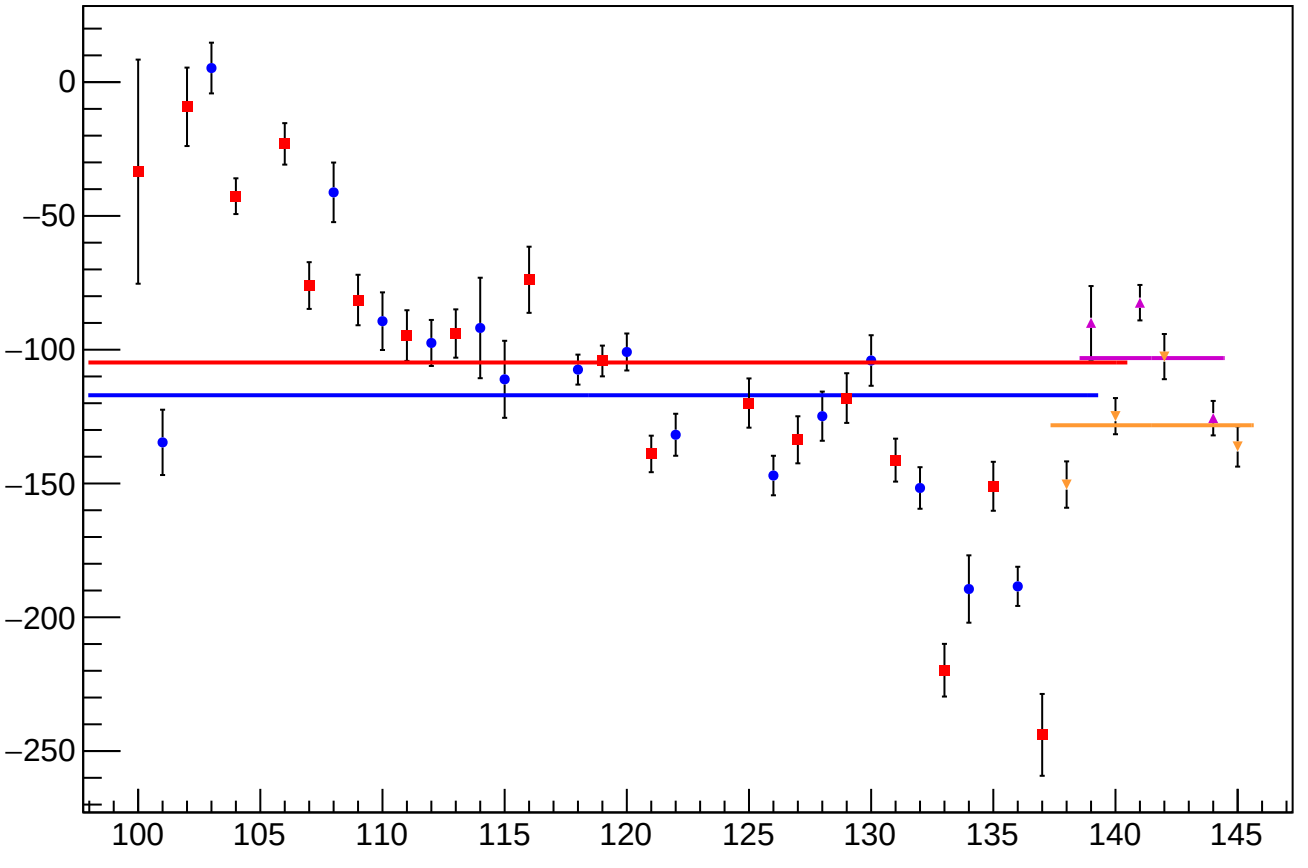
Right: 1.370+/-1.301 $\chi^2$/NDF: 391.3/33

In: -5.899+/-1.691 $\chi^2$/NDF:306.6/18

Out: -5.069+/-1.573 $\chi^2$/NDF:263.5/21

All: -5.454+/-1.152 $\chi^2$/NDF: 570.2/40


reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
−100
−200
−300
−400
−500
−600
100
105
110
115
120
125
130
135
140
145
Right In: -407.575+/-2.074 χ²/NDF: 3280.5/15
Left Out: -427.638+/-4.107 χ²/NDF:152.1/3
Right Out: -364.323+/-1.942 χ²/NDF: 6220.4/17
Left In: -471.449+/-4.569 χ²/NDF:28.3/2
Left: -447.219+/-3.054 χ²/NDF: 231.3/6
Right: -384.535+/-1.418 χ²/NDF: 9732.7/33
In: -418.487+/-1.888 χ²/NDF:3470.9/18
Out: -375.896+/-1.756 χ²/NDF:6566.8/21
All: -395.646+/-1.286 χ²/NDF: 10310.5/40




Right In: -117.021+/-2.194 $\chi^2$/NDF: 407.8/15

Left Out: -128.238+/-3.868 $\chi^2$/NDF:17.1/3

Right Out: -104.780+/-2.091 $\chi^2$/NDF: 575.1/17

Left In: -103.132+/-4.378 $\chi^2$/NDF:22.8/2

Left: -117.232+/-2.899 $\chi^2$/NDF: 58.4/6

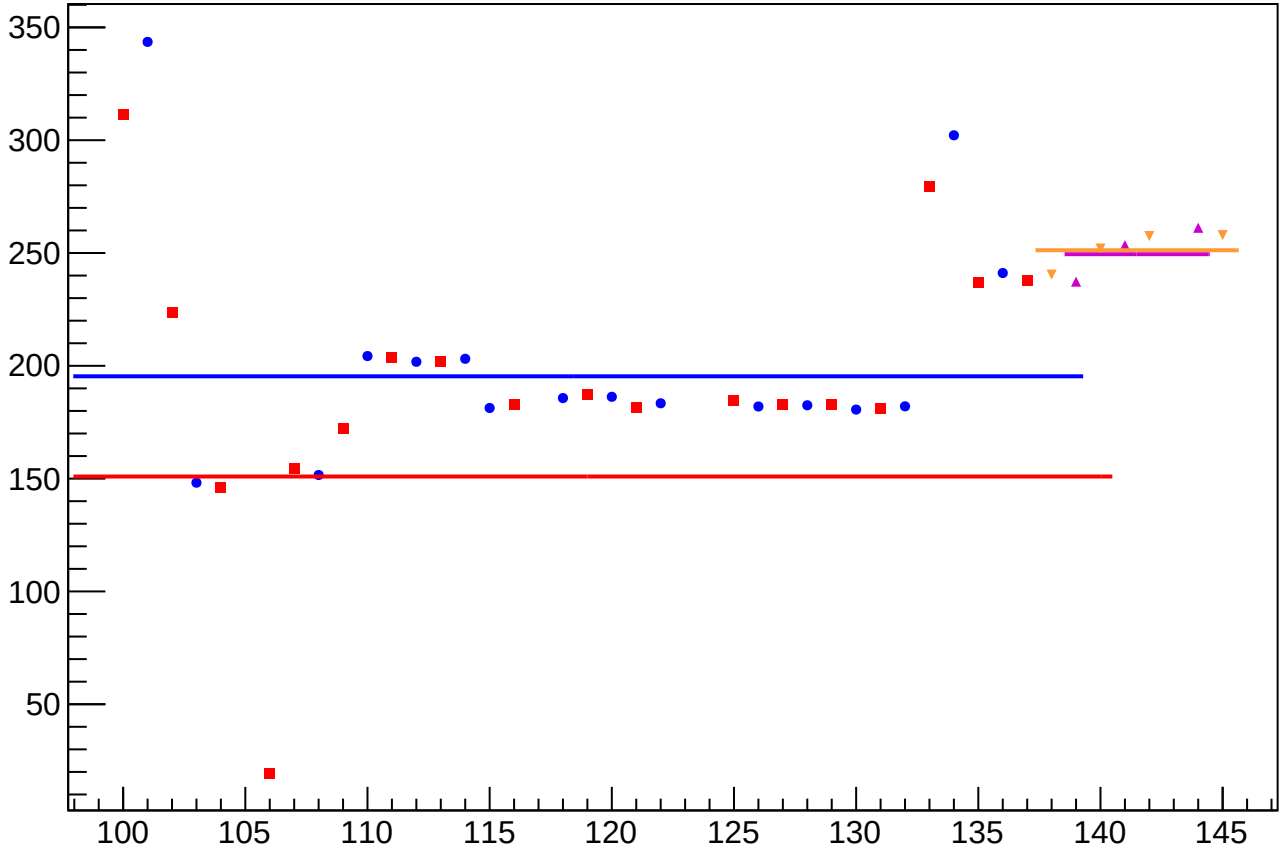
Right: -110.605+/-1.514 $\chi^2$/NDF: 999.2/33

In: -114.232+/-1.962 $\chi^2$/NDF:438.7/18

Out: -110.084+/-1.839 $\chi^2$/NDF:620.7/21

All: -112.025+/-1.342 $\chi^2$/NDF: 1061.8/40

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: 251.220+/-0.171 $\chi^2$/NDF:1733.2/3

Right Out: 150.932+/-0.110 $\chi^2$/NDF: 499233.7/17

Left In: 249.475+/-0.184 $\chi^2$/NDF:3014.4/2

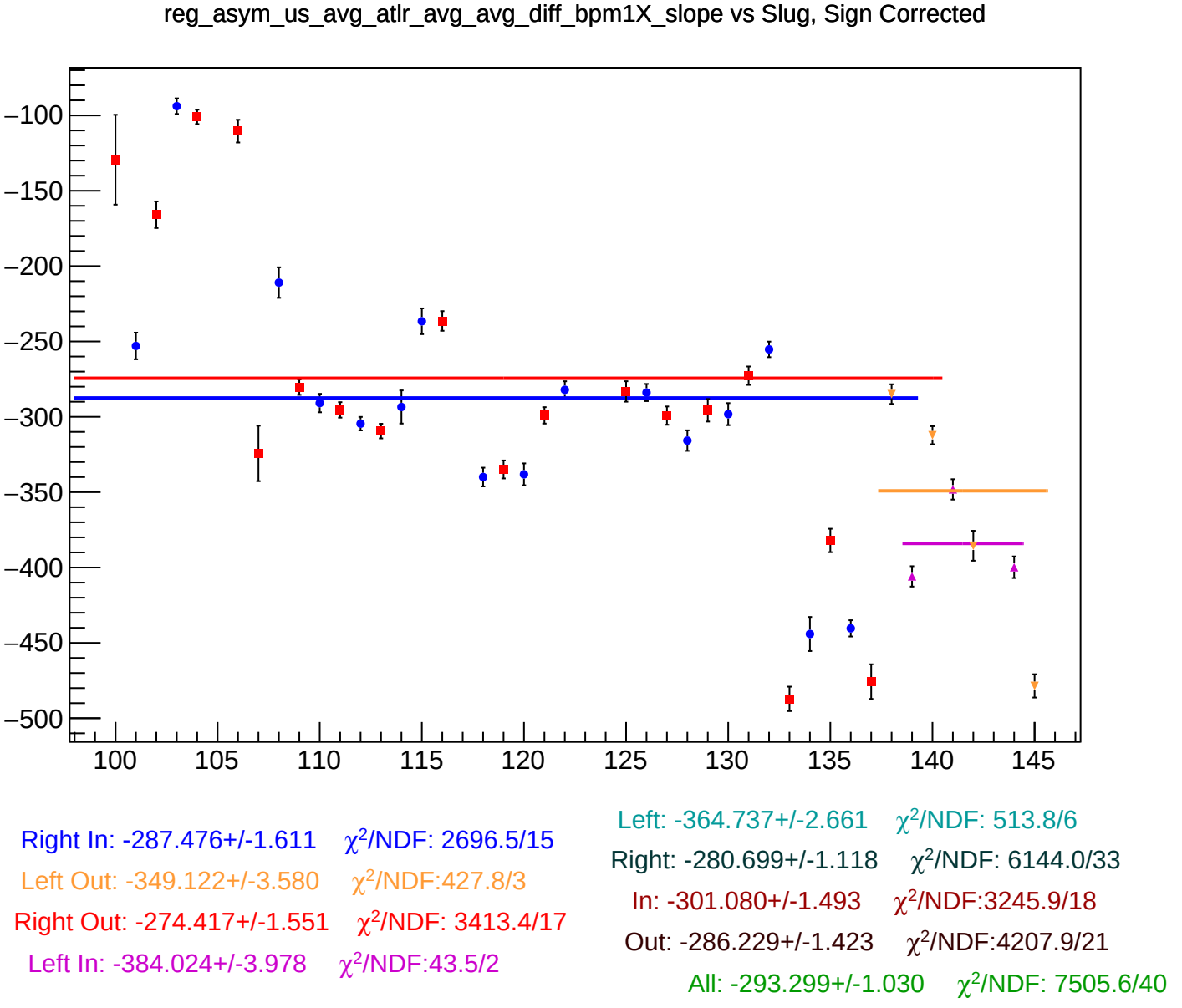
Left: 250.411+/-0.125 $\chi^2$/NDF: 4796.0/6

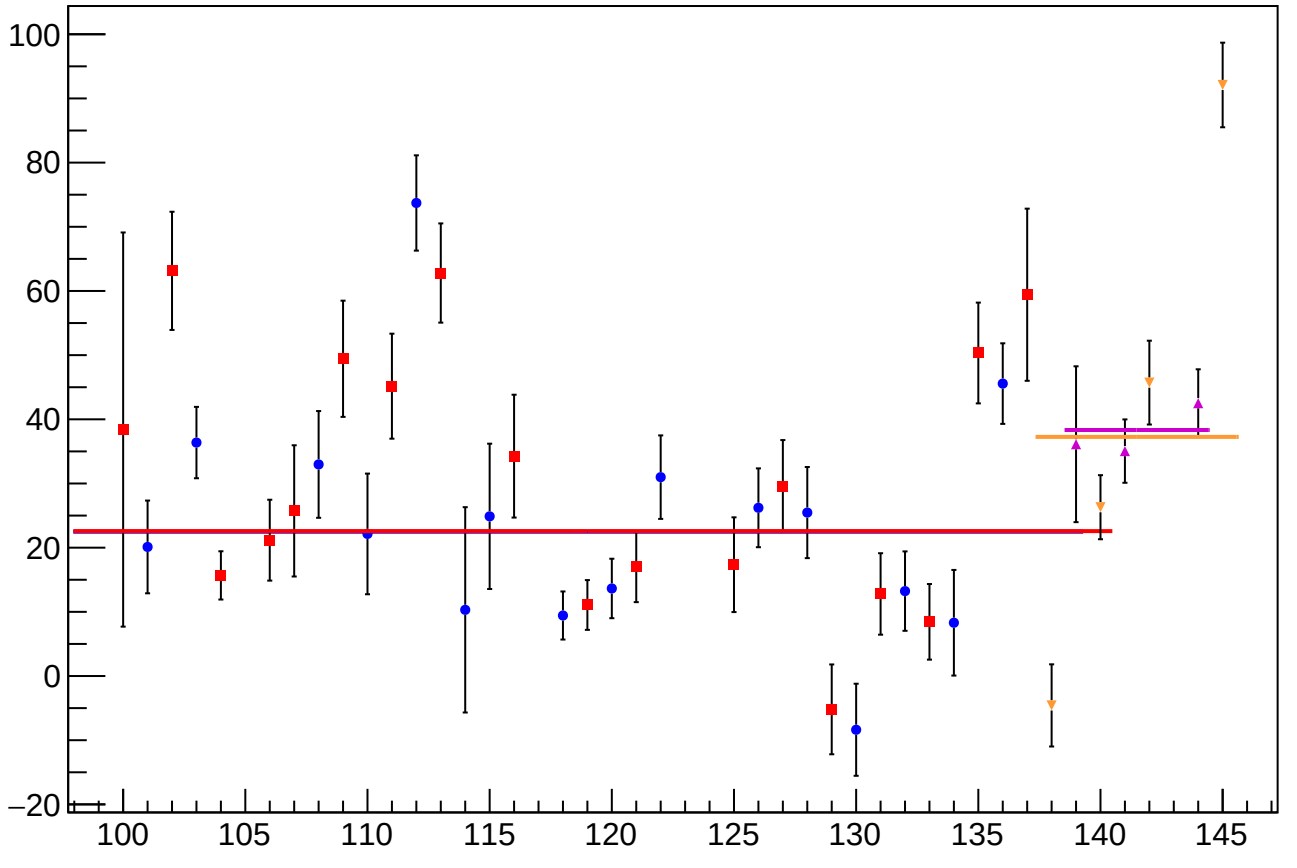
Right: 170.416+/-0.083 $\chi^2$/NDF: 747517.5/33

In: 212.409+/-0.103 $\chi^2$/NDF:239429.4/18

Out: 180.380+/-0.093 $\chi^2$/NDF:744286.9/21

All: 194.674+/-0.069 $\chi^2$/NDF: 1037117.9/40


reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected
−100
−150
−200
−250
−300
−350
−400
−450
−500
100
105
110
115
120
125
130
135
140
145
Right In: -287.476+/-1.611 χ2/NDF: 2696.5/15
Left Out: -349.122+/-3.580 χ2/NDF:427.8/3
Right Out: -274.417+/-1.551 χ2/NDF: 3413.4/17
Left In: -384.024+/-3.978 χ2/NDF:43.5/2
Left: -364.737+/-2.661 χ2/NDF: 513.8/6
Right: -280.699+/-1.118 χ2/NDF: 6144.0/33
In: -301.080+/-1.493 χ2/NDF:3245.9/18
Out: -286.229+/-1.423 χ2/NDF:4207.9/21
All: -293.299+/-1.030 χ2/NDF: 7505.6/40




Right In: 22.492+/-1.621 $\chi^2$/NDF: 111.4/15

Left Out: 37.260+/-3.002 $\chi^2$/NDF:118.4/3

Right Out: 22.580+/-1.570 $\chi^2$/NDF: 123.3/17

Left In: 38.334+/-3.457 $\chi^2$/NDF:1.1/2

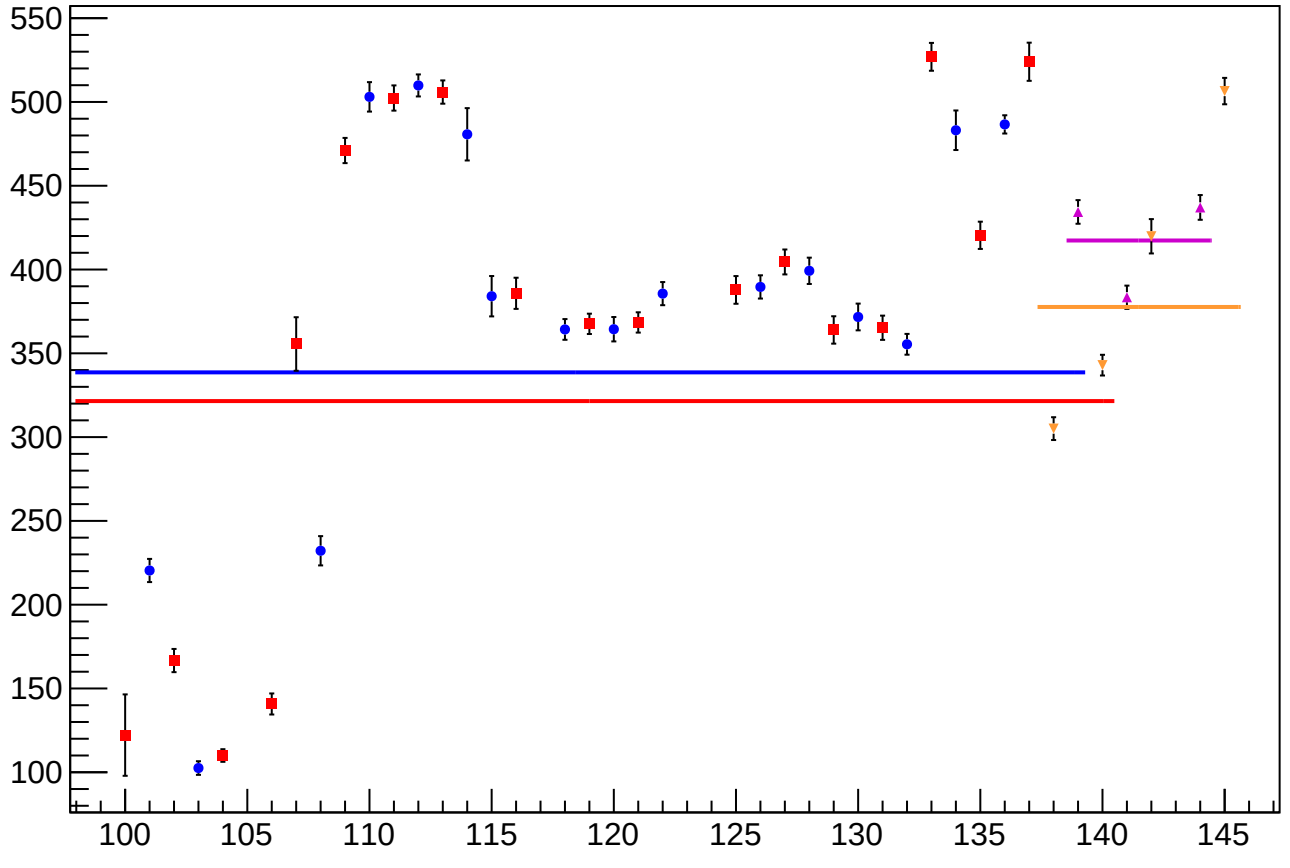
Left: 37.722+/-2.267 $\chi^2$/NDF: 119.6/6

Right: 22.537+/-1.128 $\chi^2$/NDF: 234.8/33

In: 25.347+/-1.468 $\chi^2$/NDF:129.7/18

Out: 25.732+/-1.391 $\chi^2$/NDF:260.5/21

All: 25.550+/-1.010 $\chi^2$/NDF: 390.3/40




Right In: 338.633+/-1.748 $\chi^2$/NDF: 6042.6/15

Left Out: 377.661+/-3.690 $\chi^2$/NDF:429.9/3

Right Out: 321.500+/-1.694 $\chi^2$/NDF: 7720.8/17

Left In: 417.331+/-4.109 $\chi^2$/NDF:36.8/2

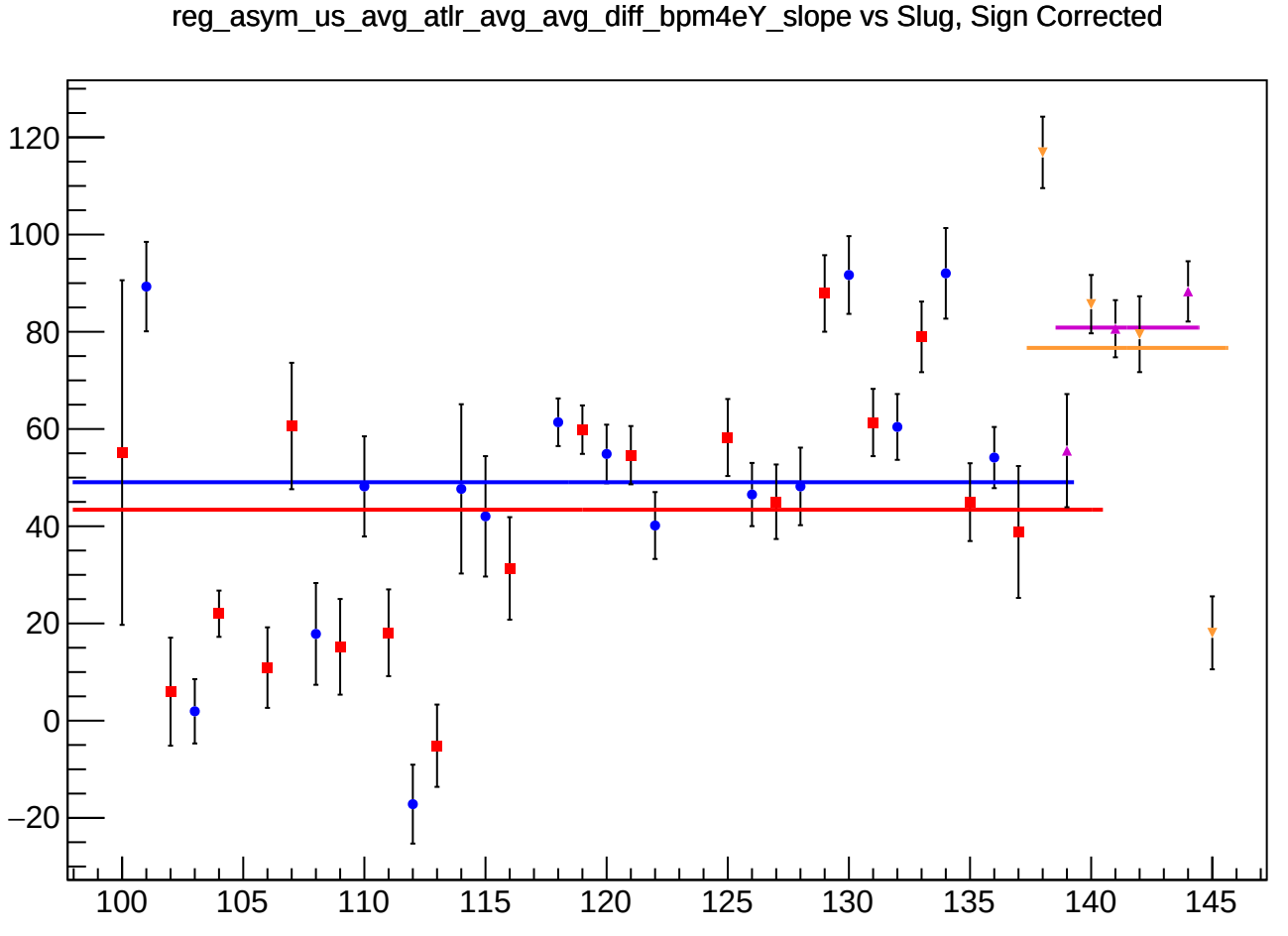
Left: 395.373+/-2.745 $\chi^2$/NDF: 518.3/6

Right: 329.797+/-1.217 $\chi^2$/NDF: 13813.0/33

In: 350.697+/-1.609 $\chi^2$/NDF:6390.1/18

Out: 331.277+/-1.540 $\chi^2$/NDF:8342.0/21

All: 340.561+/-1.112 $\chi^2$/NDF: 14808.1/40




Right In: 49.053+/-1.882 $\chi^2$/NDF: 207.9/15

Left Out: 76.681+/-3.526 $\chi^2$/NDF:93.3/3

Right Out: 43.392+/-1.834 $\chi^2$/NDF: 180.0/17

Left In: 80.862+/-4.006 $\chi^2$/NDF:6.2/2

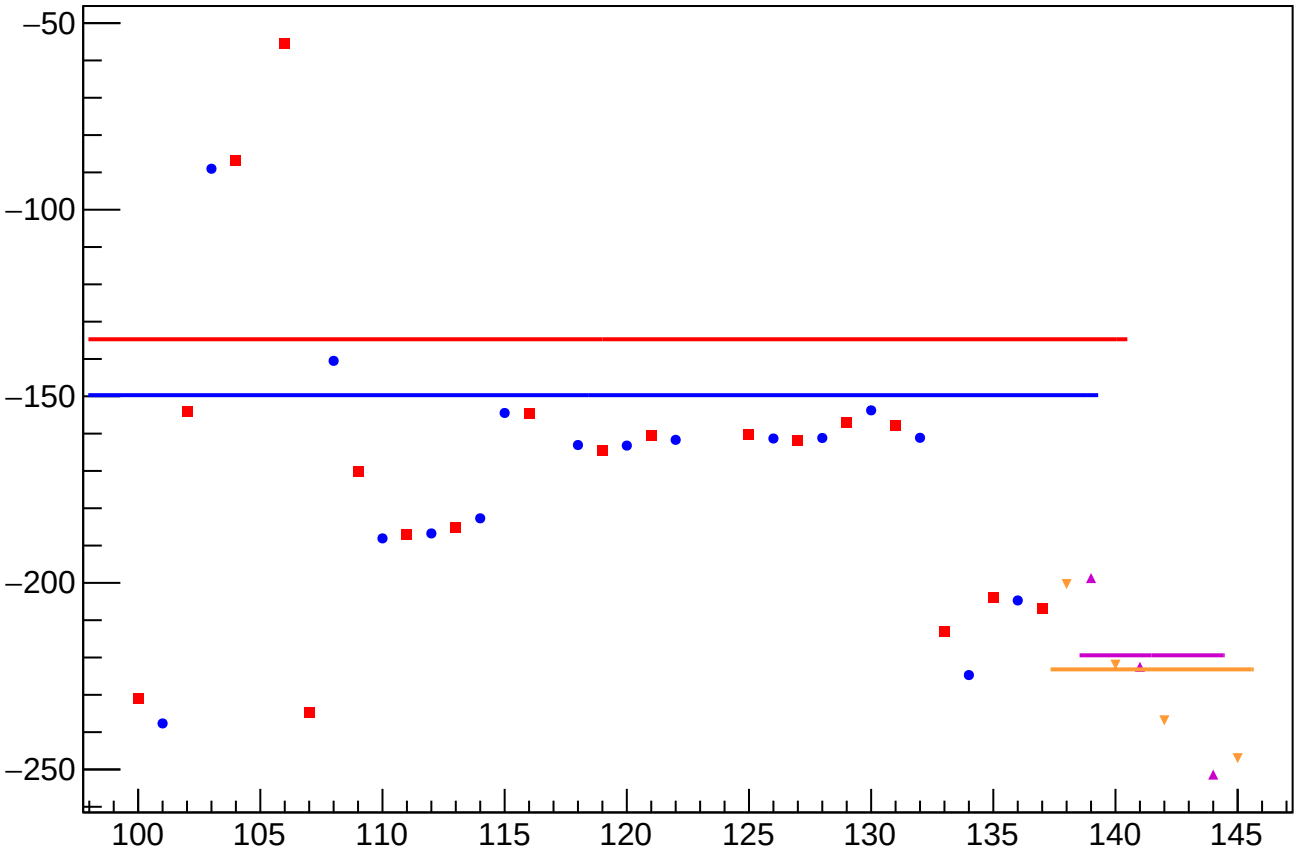
Left: 78.506+/-2.646 $\chi^2$/NDF: 100.1/6

Right: 46.149+/-1.314 $\chi^2$/NDF: 392.6/33

In: 54.808+/-1.704 $\chi^2$/NDF:265.8/18

Out: 50.480+/-1.627 $\chi^2$/NDF:343.5/21

All: 52.544+/-1.177 $\chi^2$/NDF: 612.6/40




Right In: -149.698+/-0.101 $\chi^2$/NDF: 256472.2/15

Left Out: -223.178+/-0.154 $\chi^2$/NDF:13869.0/3

Right Out: -134.715+/-0.097 $\chi^2$/NDF: 312639.8/17

Left In: -219.409+/-0.164 $\chi^2$/NDF:16233.5/2

Left: -221.413+/-0.112 $\chi^2$/NDF: 30384.6/6

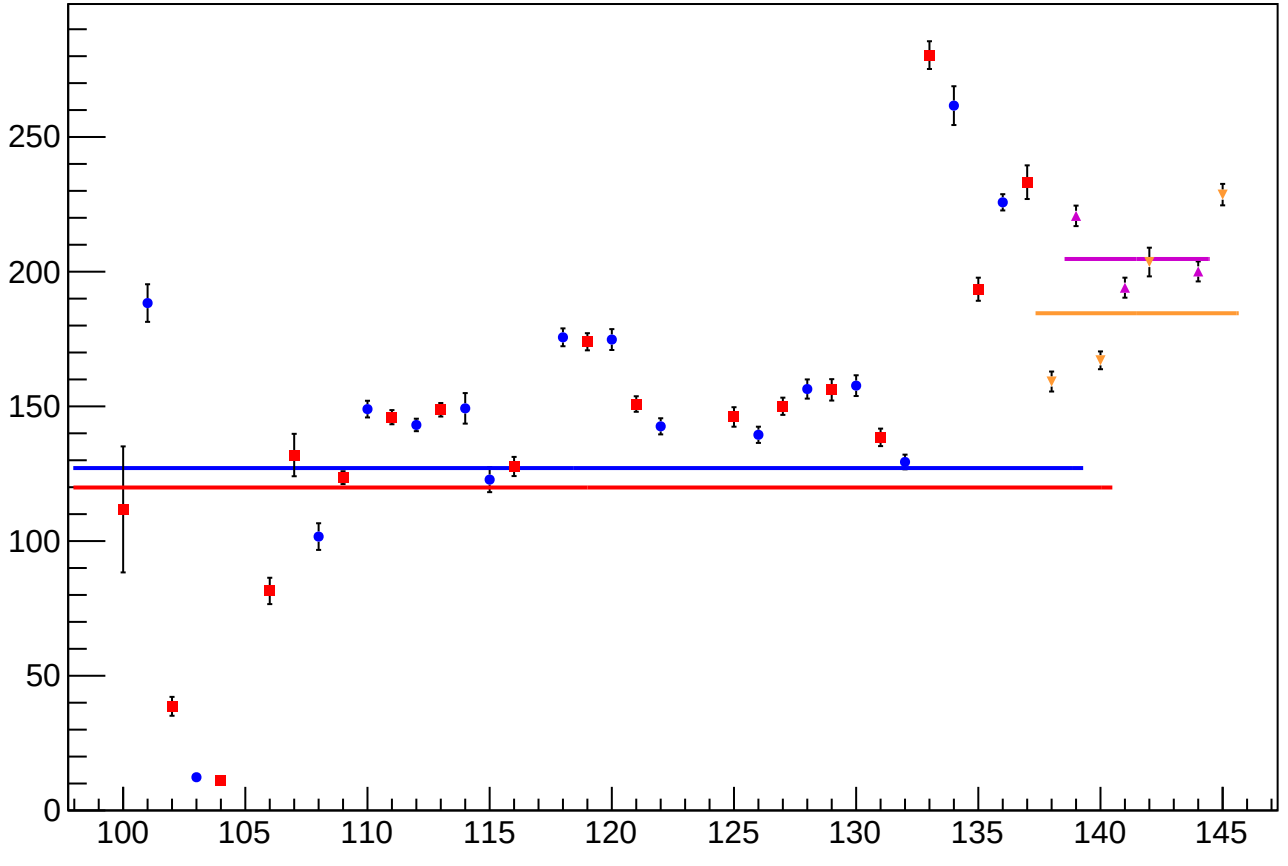
Right: -141.917+/-0.070 $\chi^2$/NDF: 580582.0/33

In: -168.875+/-0.086 $\chi^2$/NDF:404222.8/18

Out: -159.945+/-0.082 $\chi^2$/NDF:563743.3/21

All: -164.206+/-0.059 $\chi^2$/NDF: 973624.3/40

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: 184.573+/-1.951 $\chi^2$/NDF:209.7/3

Right Out: 119.886+/-0.774 $\chi^2$/NDF: 6649.6/17

Left In: 204.718+/-2.162 $\chi^2$/NDF:27.5/2

Left: 193.616+/-1.448 $\chi^2$/NDF: 285.0/6

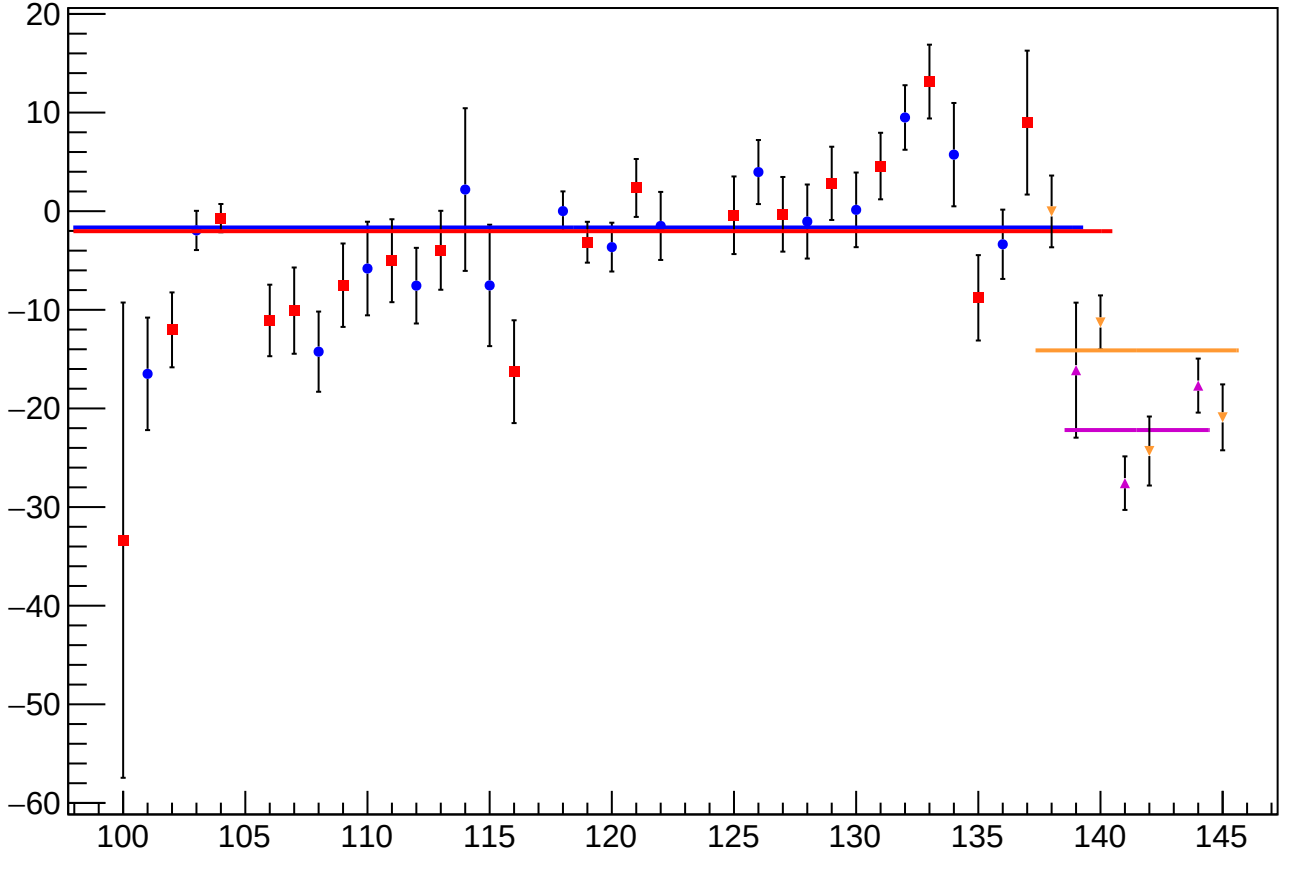
Right: 123.326+/-0.560 $\chi^2$/NDF: 12854.2/33

In: 136.672+/-0.759 $\chi^2$/NDF:7320.8/18

Out: 128.687+/-0.720 $\chi^2$/NDF:7809.1/21

All: 132.466+/-0.522 $\chi^2$/NDF: 15188.1/40

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: -14.113+/-1.623 $\chi^2$/NDF:28.7/3

Right Out: -2.027+/-0.770 $\chi^2$/NDF: 58.6/17

Left In: -22.190+/-1.856 $\chi^2$/NDF:7.4/2

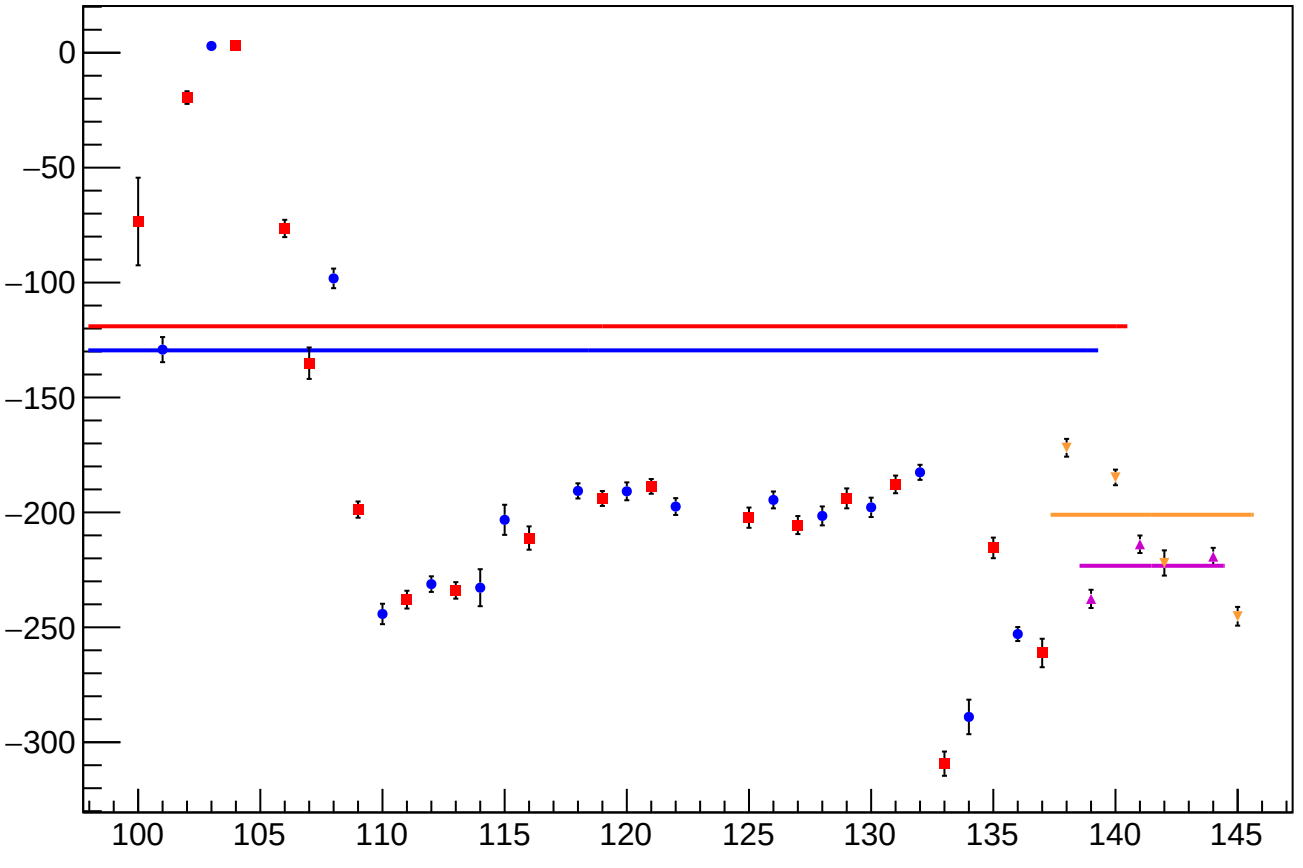
Left: -17.614+/-1.222 $\chi^2$/NDF: 46.9/6

Right: -1.854+/-0.565 $\chi^2$/NDF: 97.8/33

In: -5.094+/-0.760 $\chi^2$/NDF:148.5/18

Out: -4.249+/-0.696 $\chi^2$/NDF:132.5/21

All: -4.634+/-0.513 $\chi^2$/NDF: 281.7/40




Right In: -129.497+/-0.846 $\chi^2$/NDF: 14687.9/15

Left Out: -201.027+/-2.012 $\chi^2$/NDF:211.8/3

Right Out: -119.022+/-0.813 $\chi^2$/NDF: 16177.3/17

Left In: -223.222+/-2.232 $\chi^2$/NDF:20.3/2

Left: -210.979+/-1.495 $\chi^2$/NDF: 286.7/6

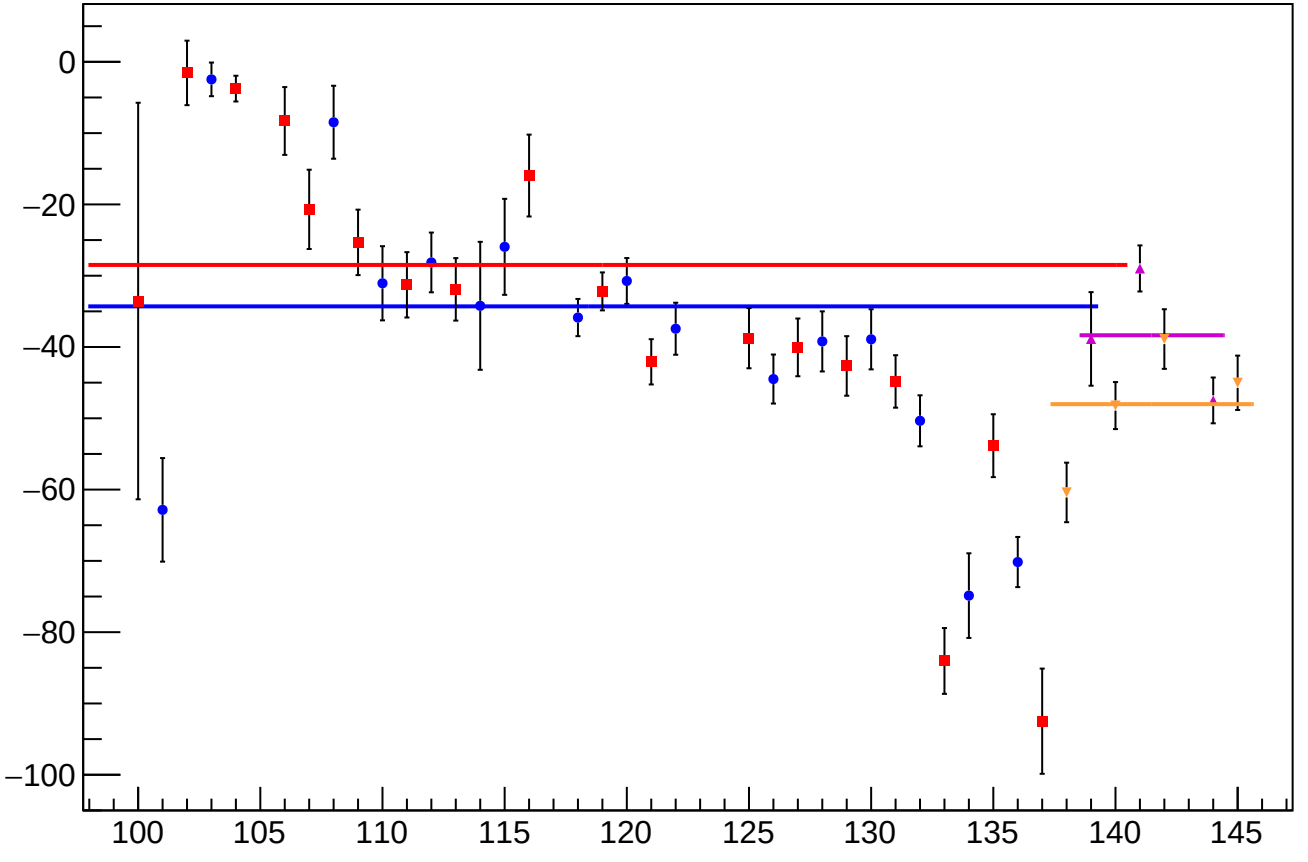
Right: -124.047+/-0.586 $\chi^2$/NDF: 30944.8/33

In: -141.281+/-0.791 $\chi^2$/NDF:16249.9/18

Out: -130.525+/-0.754 $\chi^2$/NDF:17817.0/21

All: -135.640+/-0.546 $\chi^2$/NDF: 34163.7/40

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -34.301+/-0.968 $\chi^2$/NDF: 411.3/15

Left Out: -48.015+/-1.906 $\chi^2$/NDF:14.2/3

Right Out: -28.488+/-0.907 $\chi^2$/NDF: 568.0/17

Left In: -38.352+/-2.153 $\chi^2$/NDF:16.5/2

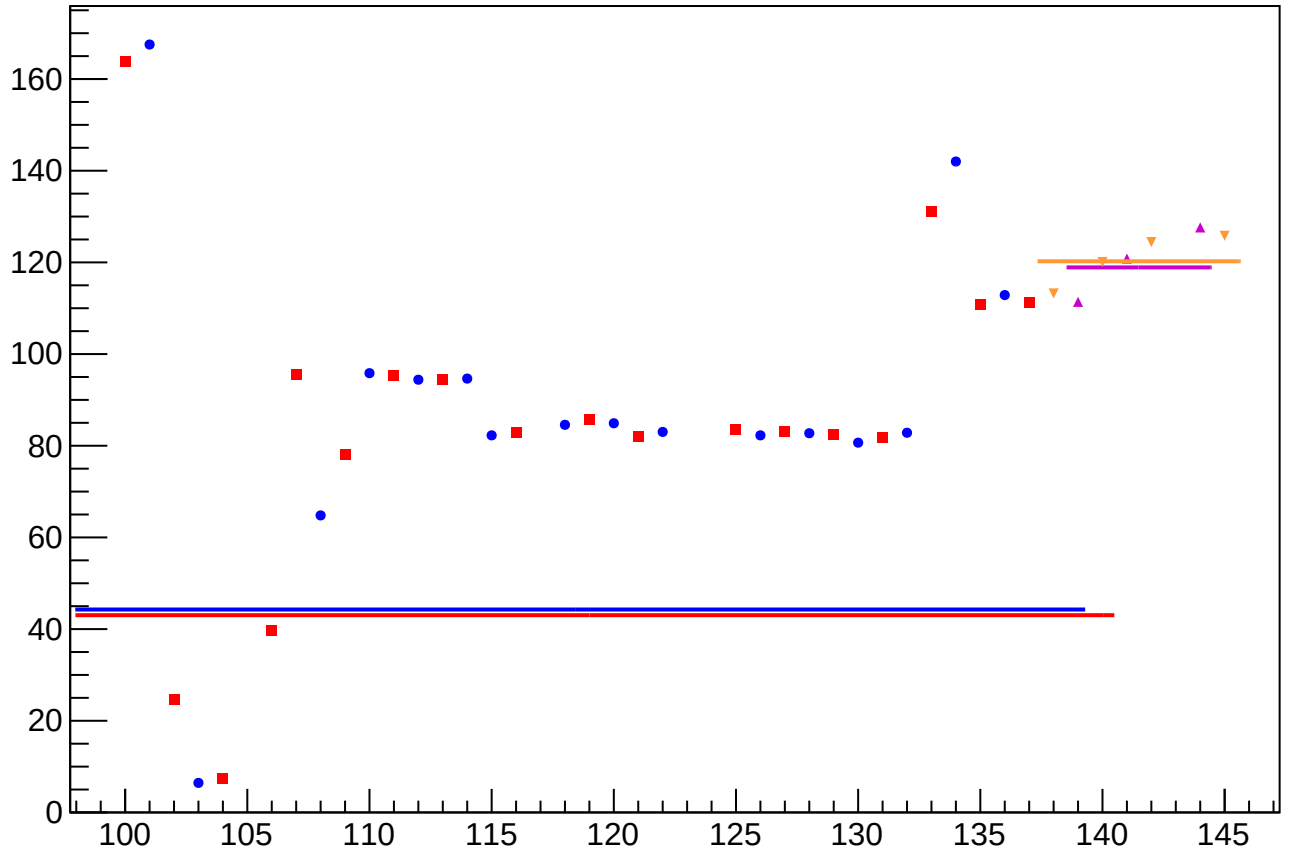
Left: -43.769+/-1.427 $\chi^2$/NDF: 42.0/6

Right: -31.206+/-0.662 $\chi^2$/NDF: 998.5/33

In: -34.982+/-0.883 $\chi^2$/NDF:430.7/18

Out: -32.093+/-0.819 $\chi^2$/NDF:667.8/21

All: -33.429+/-0.600 $\chi^2$/NDF: 1104.3/40




Right In: 44.274+/-0.045 $\chi^2$/NDF: 1085082.2/15

Left Out: 120.237+/-0.084 $\chi^2$/NDF:3562.4/3

Right Out: 43.035+/-0.045 $\chi^2$/NDF: 805108.5/17

Left In: 118.909+/-0.089 $\chi^2$/NDF:5565.6/2

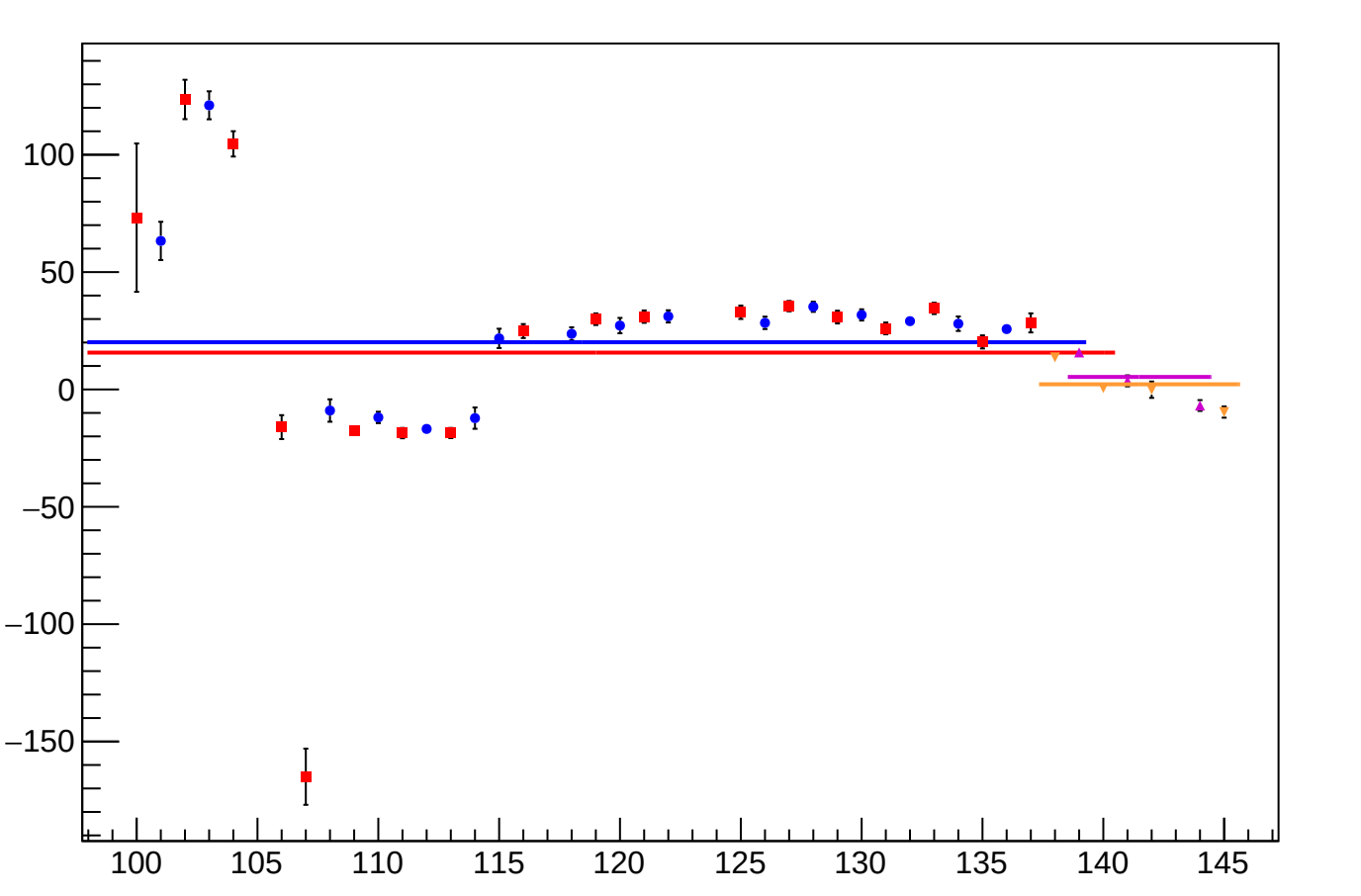
Left: 119.617+/-0.061 $\chi^2$/NDF: 9245.6/6

Right: 43.656+/-0.032 $\chi^2$/NDF: 1890570.2/33

In: 59.314+/-0.040 $\chi^2$/NDF:1646417.1/18

Out: 60.376+/-0.040 $\chi^2$/NDF:1468747.5/21

All: 59.852+/-0.028 $\chi^2$/NDF: 3115518.6/40




Right In: 20.117+/-0.687 $\chi^2$/NDF: 1048.1/15

Left Out: 2.197+/-1.180 $\chi^2$/NDF:55.5/3

Right Out: 15.700+/-0.682 $\chi^2$/NDF: 1773.8/17

Left In: 5.330+/-1.273 $\chi^2$/NDF:55.4/2

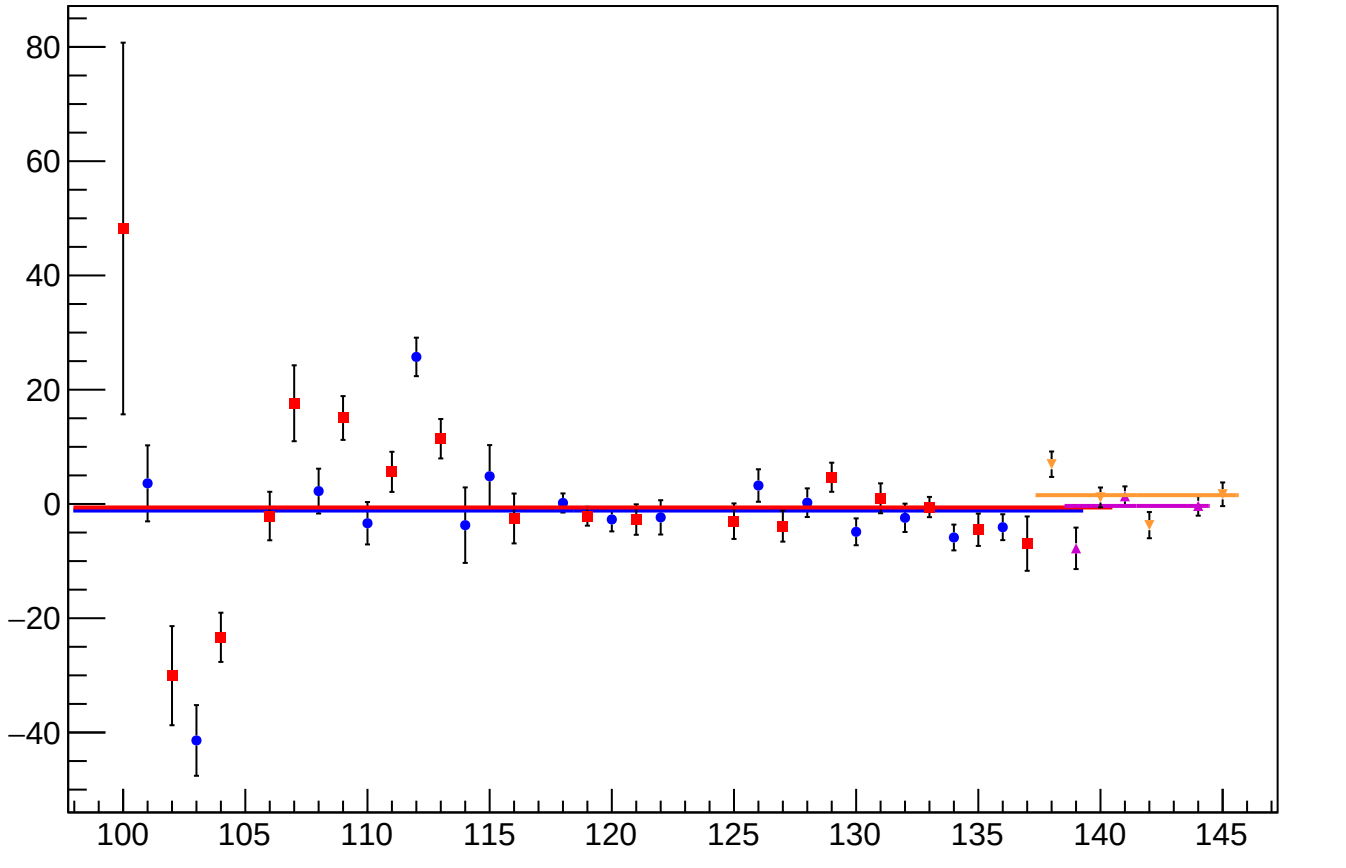
Left: 3.644+/-0.865 $\chi^2$/NDF: 114.1/6

Right: 17.893+/-0.484 $\chi^2$/NDF: 2842.7/33

In: 16.782+/-0.605 $\chi^2$/NDF:1208.0/18

Out: 12.317+/-0.590 $\chi^2$/NDF:1927.5/21

All: 14.497+/-0.422 $\chi^2$/NDF: 3163.4/40




Right In: -1.151+/-0.699 $\chi^2$/NDF: 121.8/15

Left Out: 1.542+/-1.022 $\chi^2$/NDF:11.2/3

Right Out: -0.614+/-0.713 $\chi^2$/NDF: 93.4/17

Left In: -0.342+/-1.153 $\chi^2$/NDF:5.1/2

Left: 0.713+/-0.765 $\chi^2$/NDF: 17.8/6

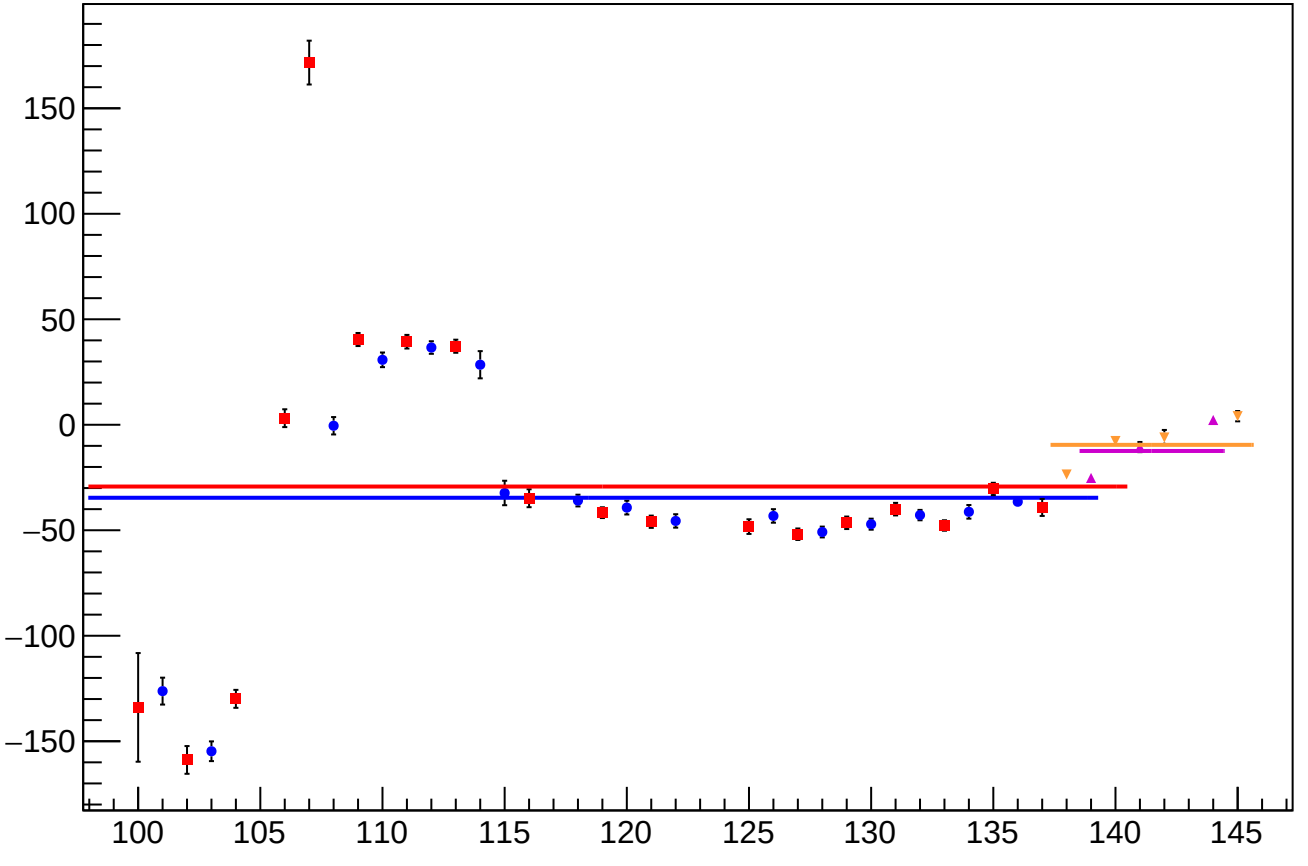
Right: -0.888+/-0.499 $\chi^2$/NDF: 215.5/33

In: -0.933+/-0.598 $\chi^2$/NDF:127.3/18

Out: 0.092+/-0.585 $\chi^2$/NDF:107.6/21

All: -0.409+/-0.418 $\chi^2$/NDF: 236.4/40

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: -9.522+/-1.217 $\chi^2$/NDF:74.0/3

Right Out: -29.277+/-0.800 $\chi^2$/NDF: 3081.1/17

Left In: -12.423+/-1.316 $\chi^2$/NDF:76.2/2

Left: -10.859+/-0.893 $\chi^2$/NDF: 152.8/6

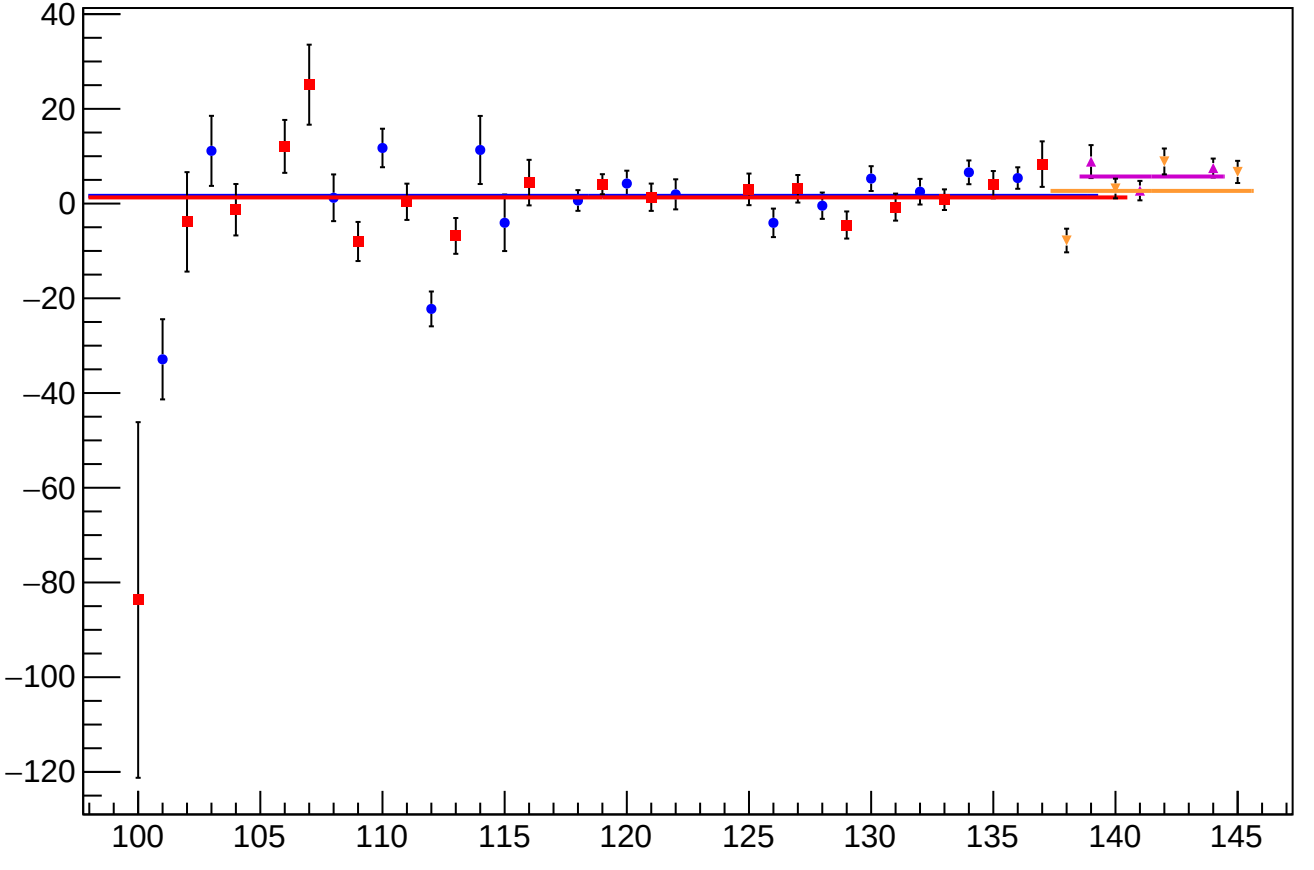
Right: -31.983+/-0.561 $\chi^2$/NDF: 5162.0/33

In: -28.764+/-0.675 $\chi^2$/NDF:2343.9/18

Out: -23.315+/-0.668 $\chi^2$/NDF:3339.2/21

All: -26.013+/-0.475 $\chi^2$/NDF: 5716.0/40

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: 2.677+/-1.188 $\chi^2$/NDF:25.8/3

Right Out: 1.298+/-0.817 $\chi^2$/NDF: 37.5/17

Left In: 5.714+/-1.324 $\chi^2$/NDF:3.7/2

Left: 4.031+/-0.884 $\chi^2$/NDF: 32.4/6

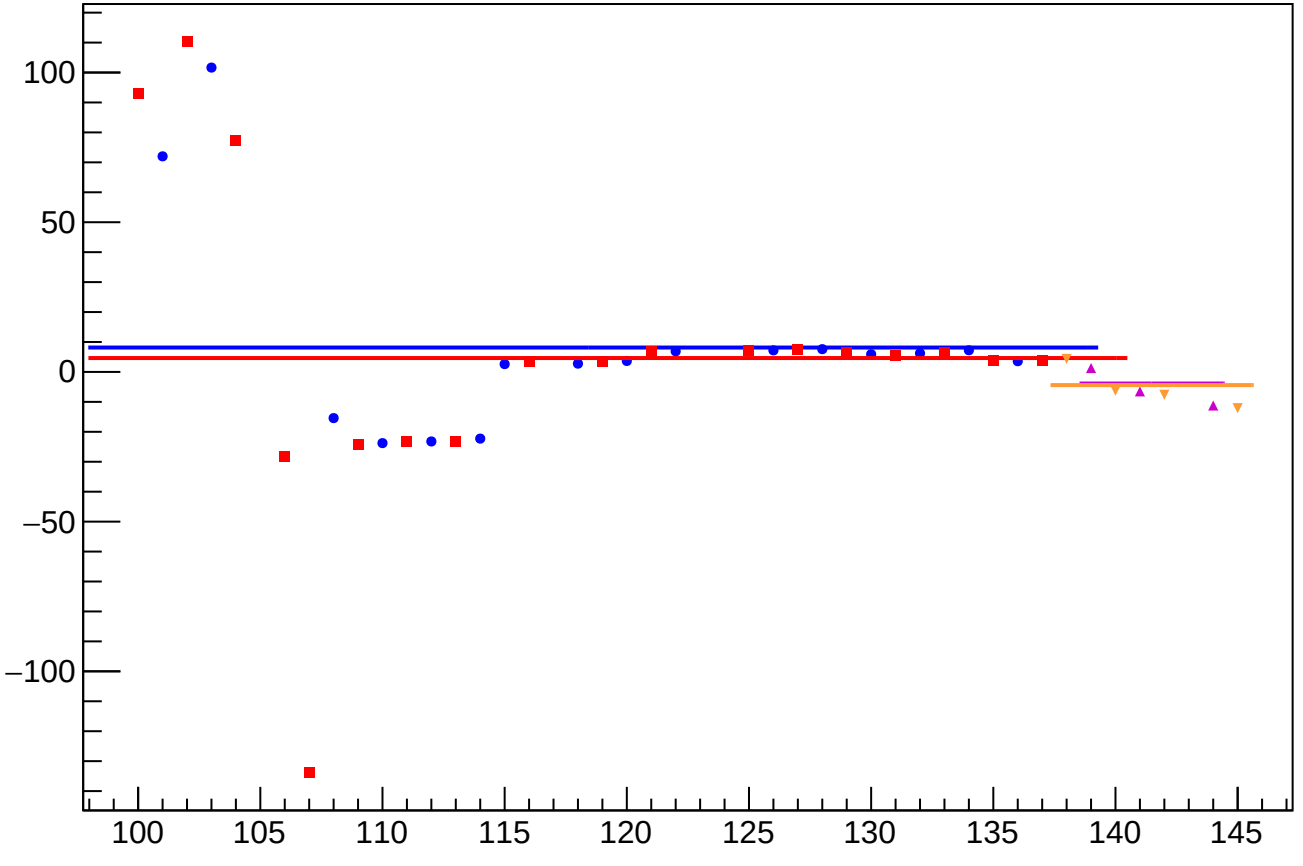
Right: 1.468+/-0.570 $\chi^2$/NDF: 120.9/33

In: 2.717+/-0.683 $\chi^2$/NDF:94.0/18

Out: 1.741+/-0.673 $\chi^2$/NDF:64.2/21

All: 2.222+/-0.479 $\chi^2$/NDF: 159.3/40

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: -4.401+/-0.050 $\chi^2$/NDF:17727.4/3

Right Out: 4.638+/-0.052 $\chi^2$/NDF: 446805.7/17

Left In: -3.870+/-0.052 $\chi^2$/NDF:10299.1/2

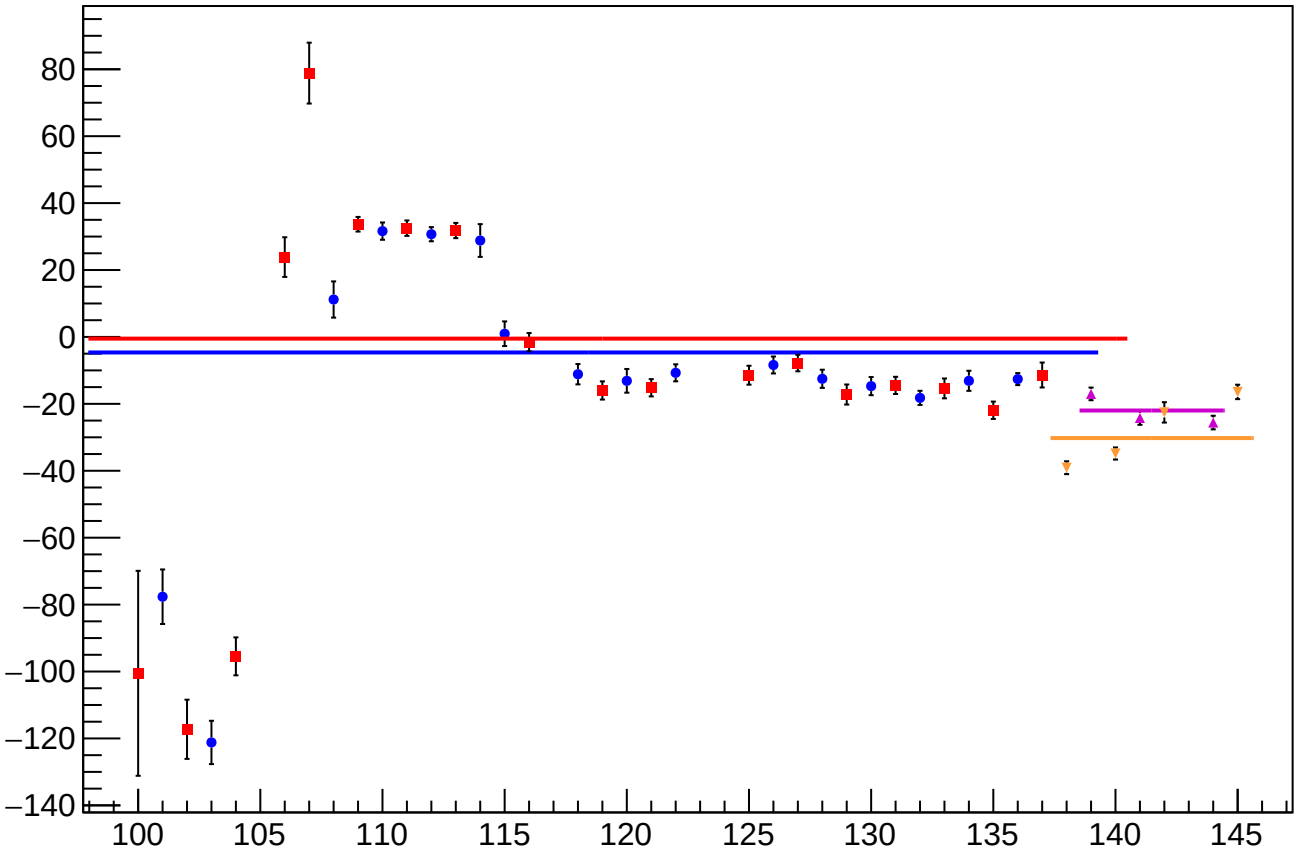
Left: -4.147+/-0.036 $\chi^2$/NDF: 28081.0/6

Right: 6.508+/-0.035 $\chi^2$/NDF: 762611.1/33

In: 2.559+/-0.035 $\chi^2$/NDF:352342.2/18

Out: -0.051+/-0.036 $\chi^2$/NDF:480397.9/21

All: 1.272+/-0.025 $\chi^2$/NDF: 835423.2/40




Right In: -4.640+/-0.712 $\chi^2$/NDF: 1046.3/15

Left Out: -30.228+/-1.056 $\chi^2$/NDF:74.9/3

Right Out: -0.505+/-0.711 $\chi^2$/NDF: 1457.8/17

Left In: -21.990+/-1.151 $\chi^2$/NDF:11.2/2

Left: -26.462+/-0.778 $\chi^2$/NDF: 113.8/6

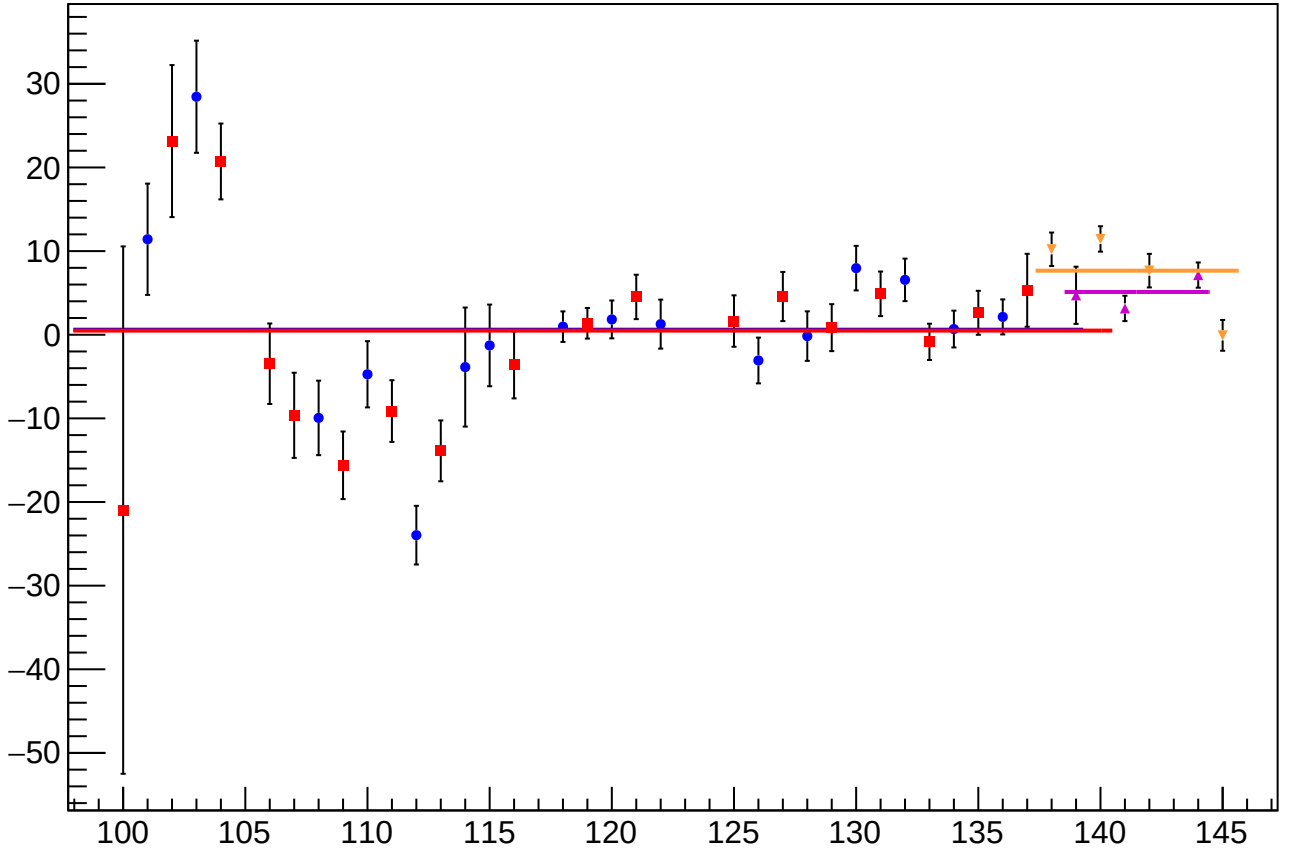
Right: -2.571+/-0.503 $\chi^2$/NDF: 2521.0/33

In: -9.436+/-0.605 $\chi^2$/NDF:1221.7/18

Out: -9.768+/-0.590 $\chi^2$/NDF:2077.5/21

All: -9.606+/-0.422 $\chi^2$/NDF: 3299.4/40

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.602+/-0.727 $\chi^2$/NDF: 92.9/15

Left Out: 7.661+/-0.903 $\chi^2$/NDF:25.5/3

Right Out: 0.496+/-0.755 $\chi^2$/NDF: 80.2/17

Left In: 5.111+/-1.020 $\chi^2$/NDF:3.5/2

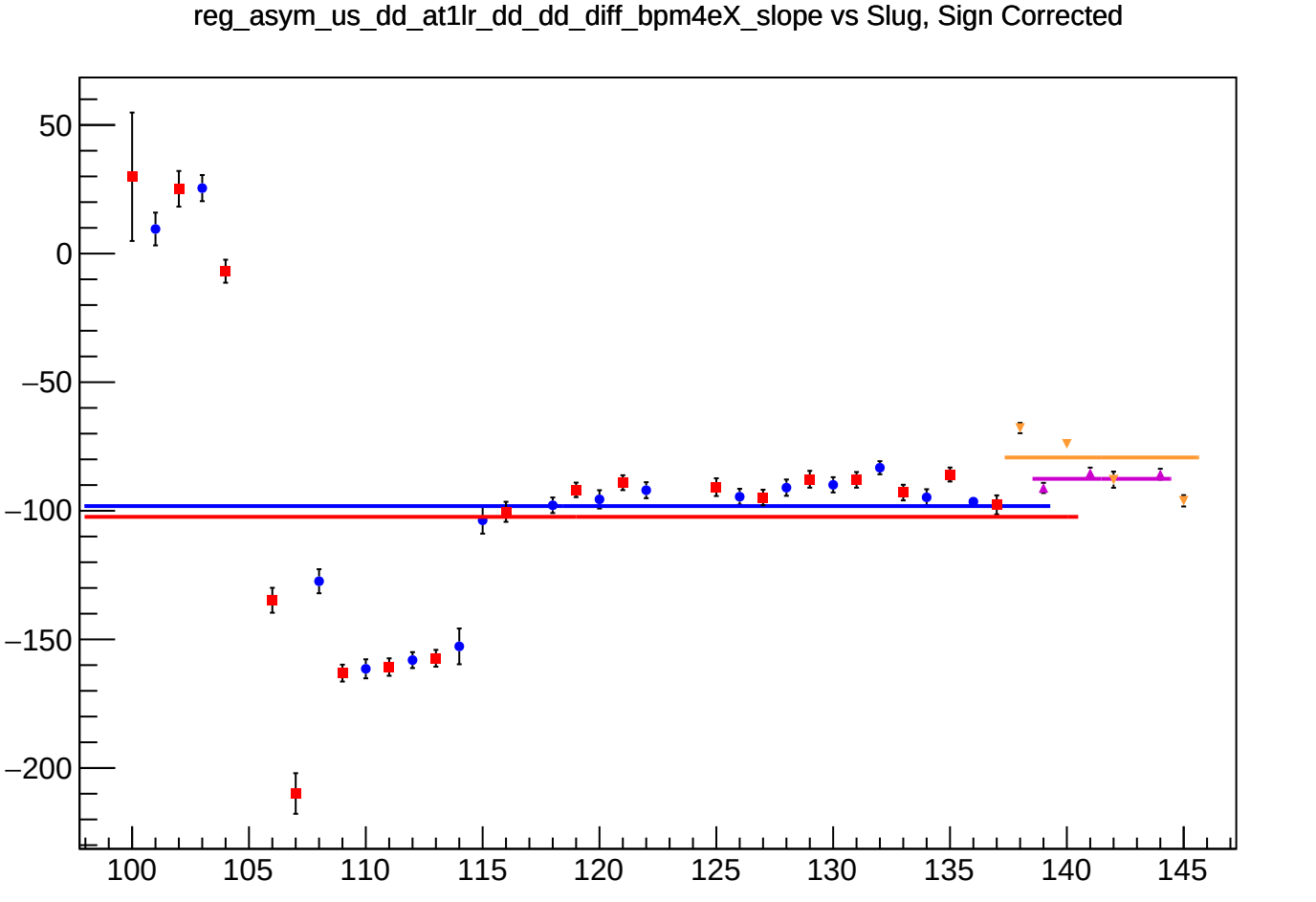
Left: 6.541+/-0.676 $\chi^2$/NDF: 32.5/6

Right: 0.551+/-0.524 $\chi^2$/NDF: 173.0/33

In: 2.120+/-0.592 $\chi^2$/NDF:109.3/18

Out: 3.443+/-0.579 $\chi^2$/NDF:142.7/21

All: 2.796+/-0.414 $\chi^2$/NDF: 254.6/40




Right In: -98.168+/-0.813 $\chi^2$/NDF: 1699.9/15

Left Out: -79.264+/-1.090 $\chi^2$/NDF:106.7/3

Right Out: -102.349+/-0.837 $\chi^2$/NDF: 2117.5/17

Left In: -87.570+/-1.189 $\chi^2$/NDF:5.1/2

Left: -83.055+/-0.803 $\chi^2$/NDF: 138.3/6

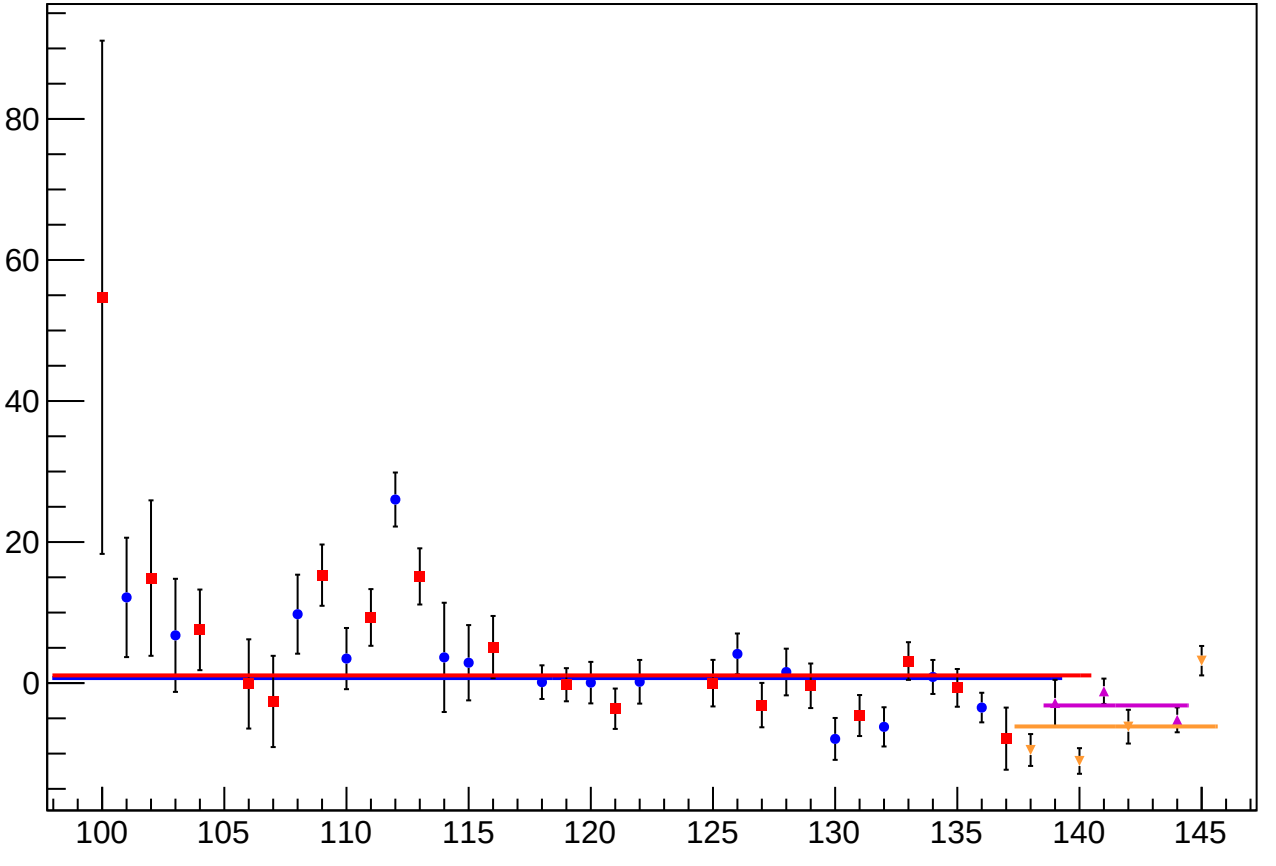
Right: -100.197+/-0.583 $\chi^2$/NDF: 3830.3/33

In: -94.795+/-0.671 $\chi^2$/NDF:1759.1/18

Out: -93.784+/-0.664 $\chi^2$/NDF:2506.4/21

All: -94.284+/-0.472 $\chi^2$/NDF: 4266.7/40

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: -6.152+/-1.053 $\chi^2$/NDF:29.4/3

Right Out: 1.088+/-0.856 $\chi^2$/NDF: 47.7/17

Left In: -3.171+/-1.176 $\chi^2$/NDF:2.6/2

Left: -4.826+/-0.784 $\chi^2$/NDF: 35.6/6

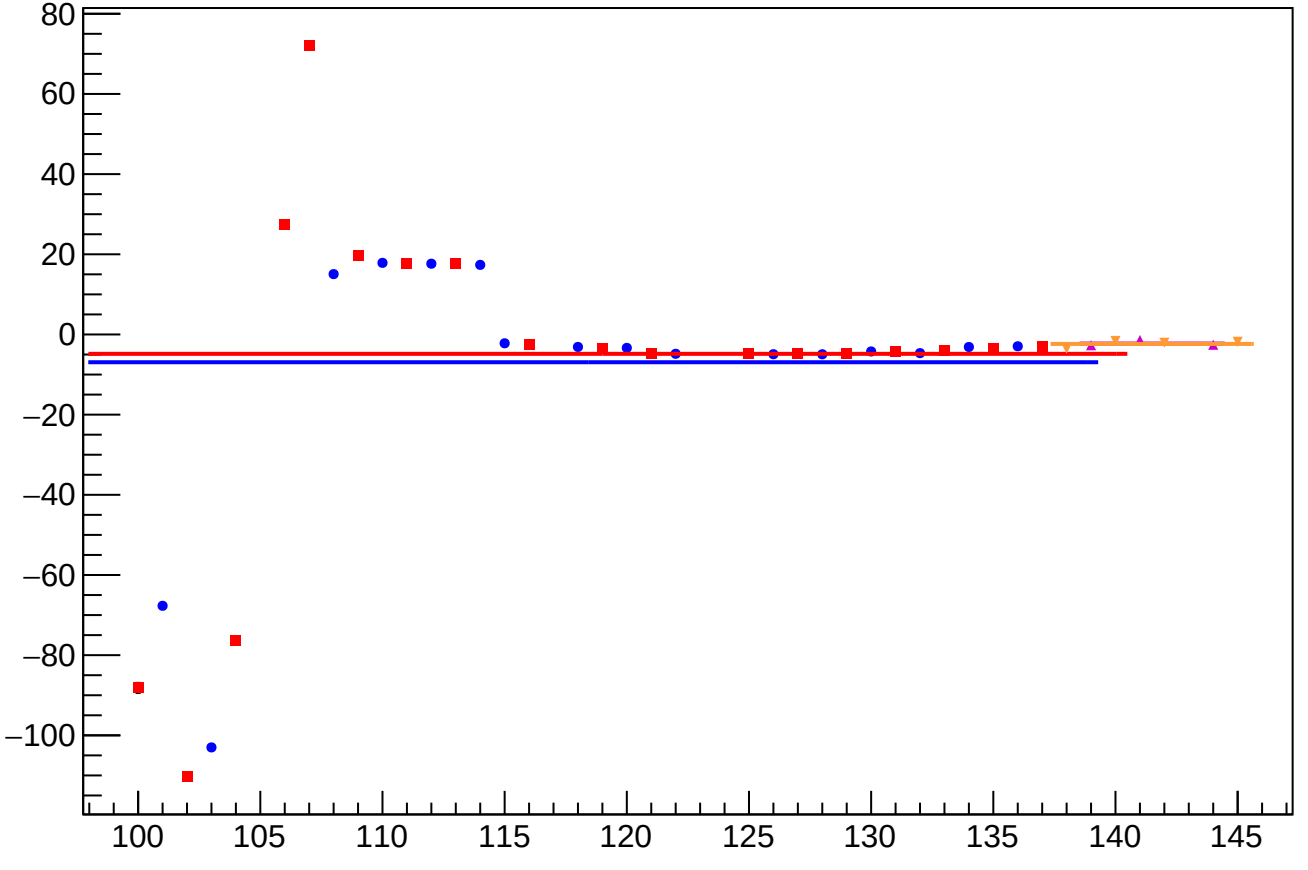
Right: 0.892+/-0.593 $\chi^2$/NDF: 117.4/33

In: -0.562+/-0.673 $\chi^2$/NDF:79.5/18

Out: -1.795+/-0.664 $\chi^2$/NDF:105.5/21

All: -1.187+/-0.473 $\chi^2$/NDF: 186.7/40

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -6.927+/-0.049 $\chi^2$/NDF: 265187.0/15

Left Out: -2.355+/-0.045 $\chi^2$/NDF:355.5/3

Right Out: -4.833+/-0.053 $\chi^2$/NDF: 339363.3/17

Left In: -2.265+/-0.047 $\chi^2$/NDF:153.2/2

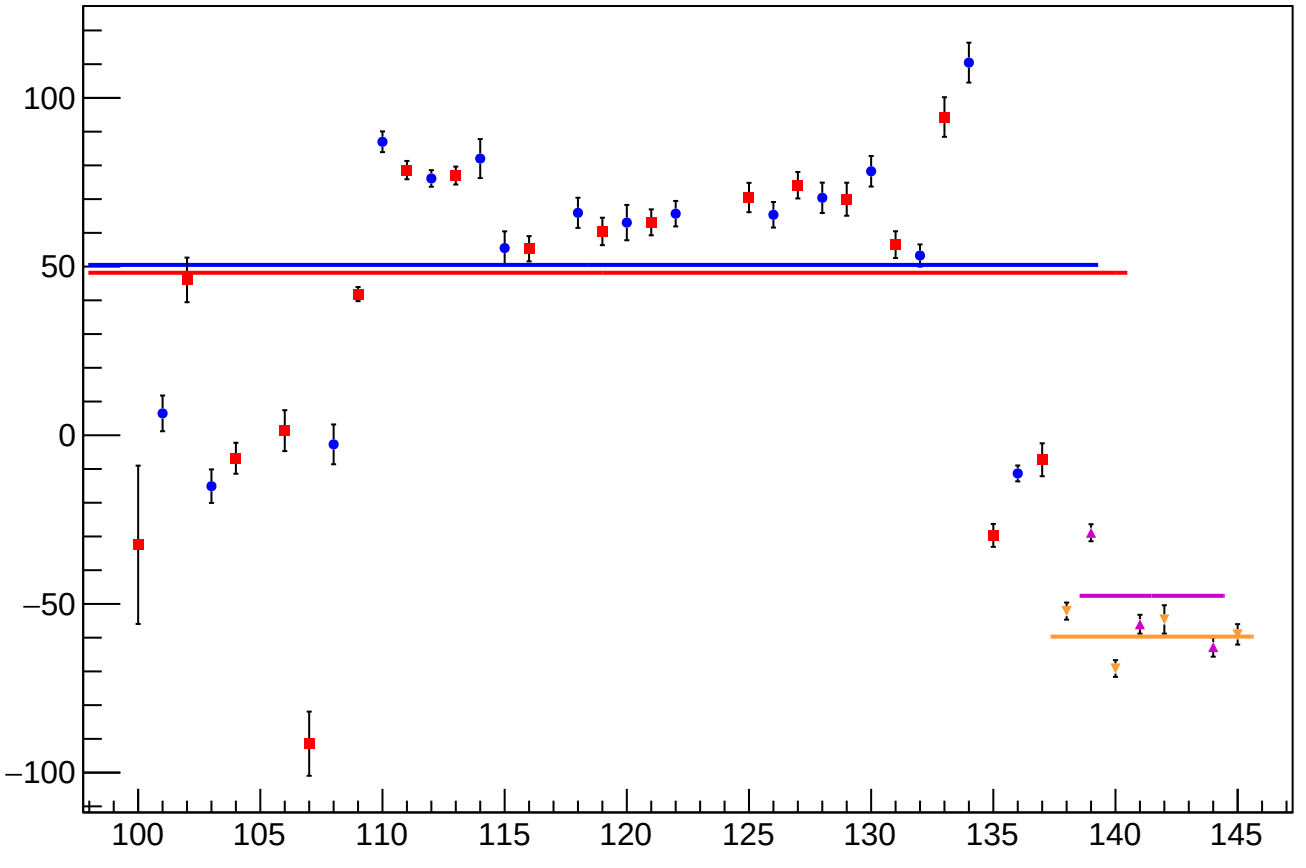
Left: -2.312+/-0.032 $\chi^2$/NDF: 510.6/6

Right: -5.968+/-0.036 $\chi^2$/NDF: 605403.2/33

In: -4.531+/-0.034 $\chi^2$/NDF:270085.0/18

Out: -3.392+/-0.034 $\chi^2$/NDF:340998.7/21

All: -3.967+/-0.024 $\chi^2$/NDF: 611644.2/40




Right In: 50.503+/-0.965 $\chi^2$/NDF: 1503.6/15

Left Out: -59.688+/-1.439 $\chi^2$/NDF:24.9/3

Right Out: 48.172+/-0.914 $\chi^2$/NDF: 1519.5/17

Left In: -47.585+/-1.568 $\chi^2$/NDF:92.0/2

Left: -54.156+/-1.060 $\chi^2$/NDF: 149.3/6

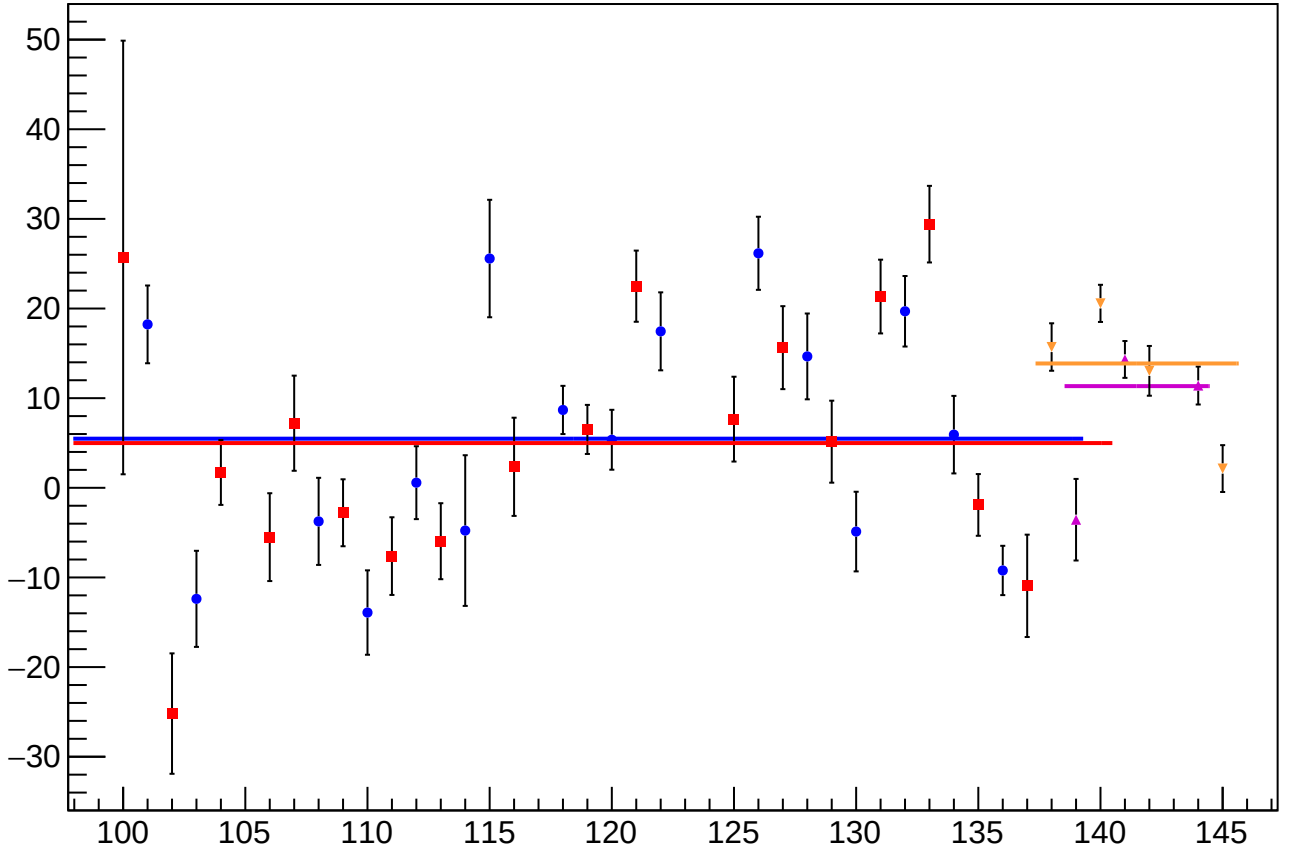
Right: 49.274+/-0.664 $\chi^2$/NDF: 3026.2/33

In: 23.546+/-0.822 $\chi^2$/NDF:4433.2/18

Out: 17.144+/-0.772 $\chi^2$/NDF:5547.9/21

All: 20.143+/-0.563 $\chi^2$/NDF: 10013.3/40

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: 13.870+/-1.239 $\chi^2$/NDF:31.2/3

Right Out: 4.992+/-1.023 $\chi^2$/NDF: 131.8/17

Left In: 11.344+/-1.402 $\chi^2$/NDF:12.8/2

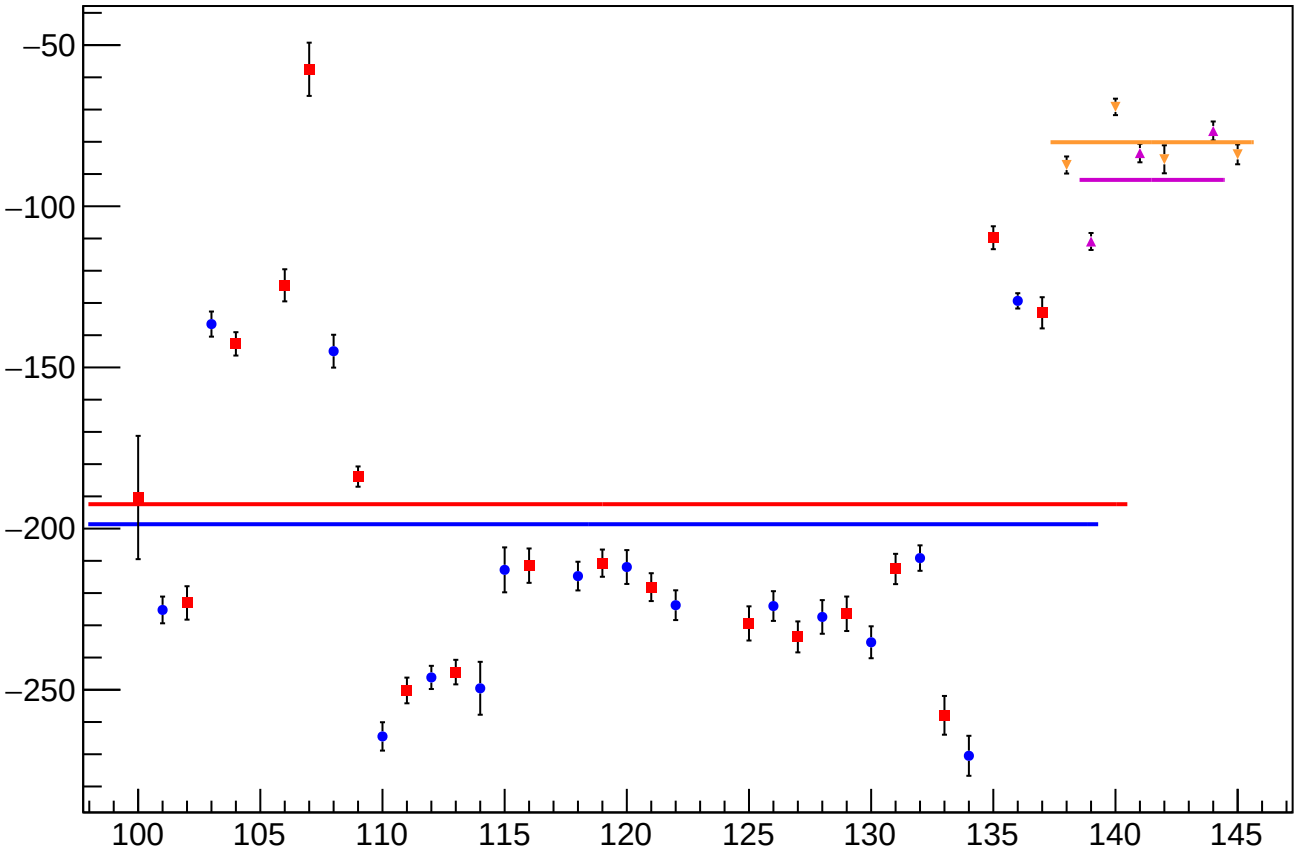
Left: 12.763+/-0.928 $\chi^2$/NDF: 45.8/6

Right: 5.236+/-0.723 $\chi^2$/NDF: 270.1/33

In: 7.513+/-0.826 $\chi^2$/NDF:162.4/18

Out: 8.590+/-0.789 $\chi^2$/NDF:193.5/21

All: 8.076+/-0.570 $\chi^2$/NDF: 356.8/40




Right In: -198.641+/-1.083 $\chi^2$/NDF: 2002.3/15

Left Out: -80.133+/-1.484 $\chi^2$/NDF:28.5/3

Right Out: -192.426+/-1.080 $\chi^2$/NDF: 2139.0/17

Left In: -91.815+/-1.620 $\chi^2$/NDF:87.6/2

Left: -85.460+/-1.094 $\chi^2$/NDF: 144.5/6

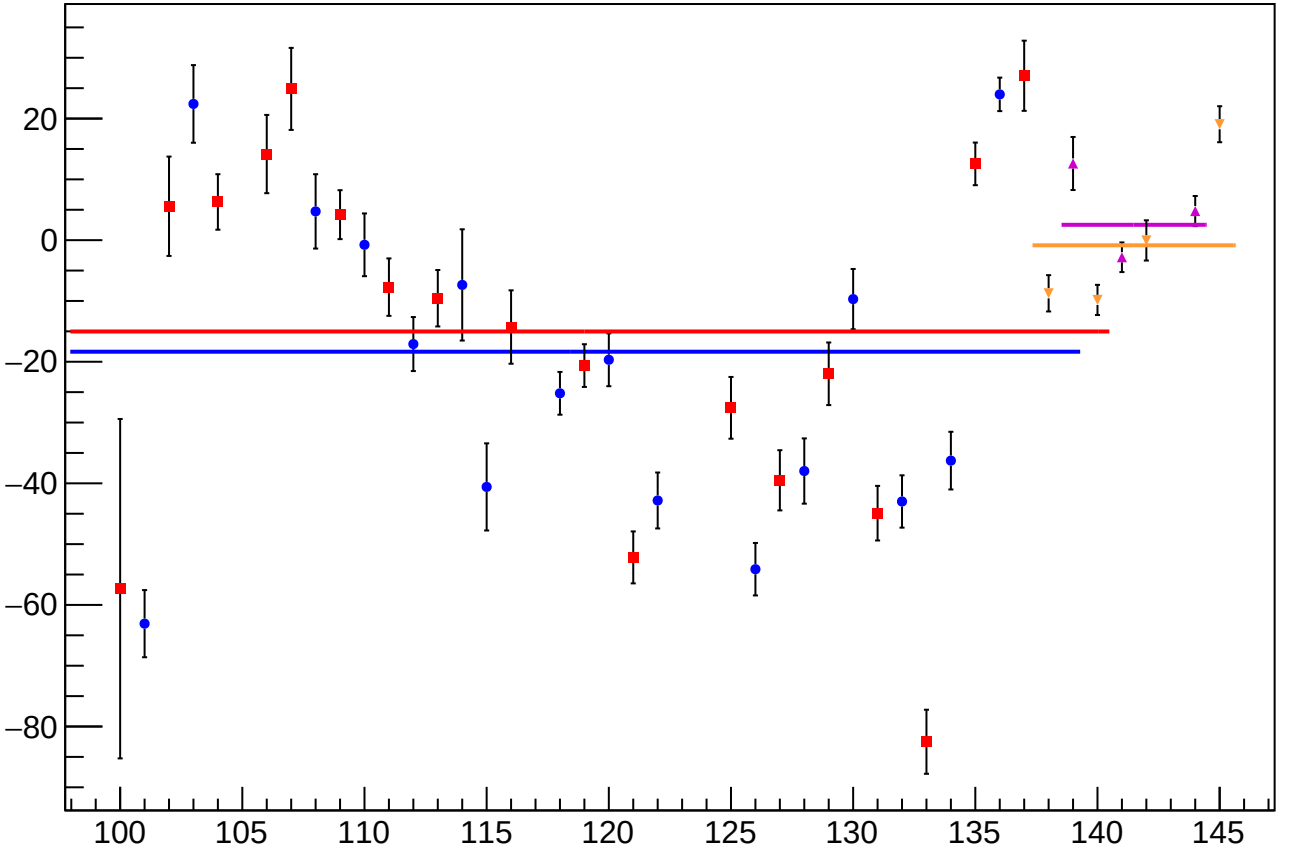
Right: -195.523+/-0.765 $\chi^2$/NDF: 4157.8/33

In: -165.637+/-0.901 $\chi^2$/NDF:5093.7/18

Out: -153.544+/-0.873 $\chi^2$/NDF:5912.8/21

All: -159.402+/-0.627 $\chi^2$/NDF: 11099.5/40

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: -0.846+/-1.443 $\chi^2$/NDF:65.4/3

Right Out: -15.021+/-1.162 $\chi^2$/NDF: 546.4/17

Left In: 2.525+/-1.614 $\chi^2$/NDF:11.0/2

Left: 0.652+/-1.076 $\chi^2$/NDF: 78.8/6

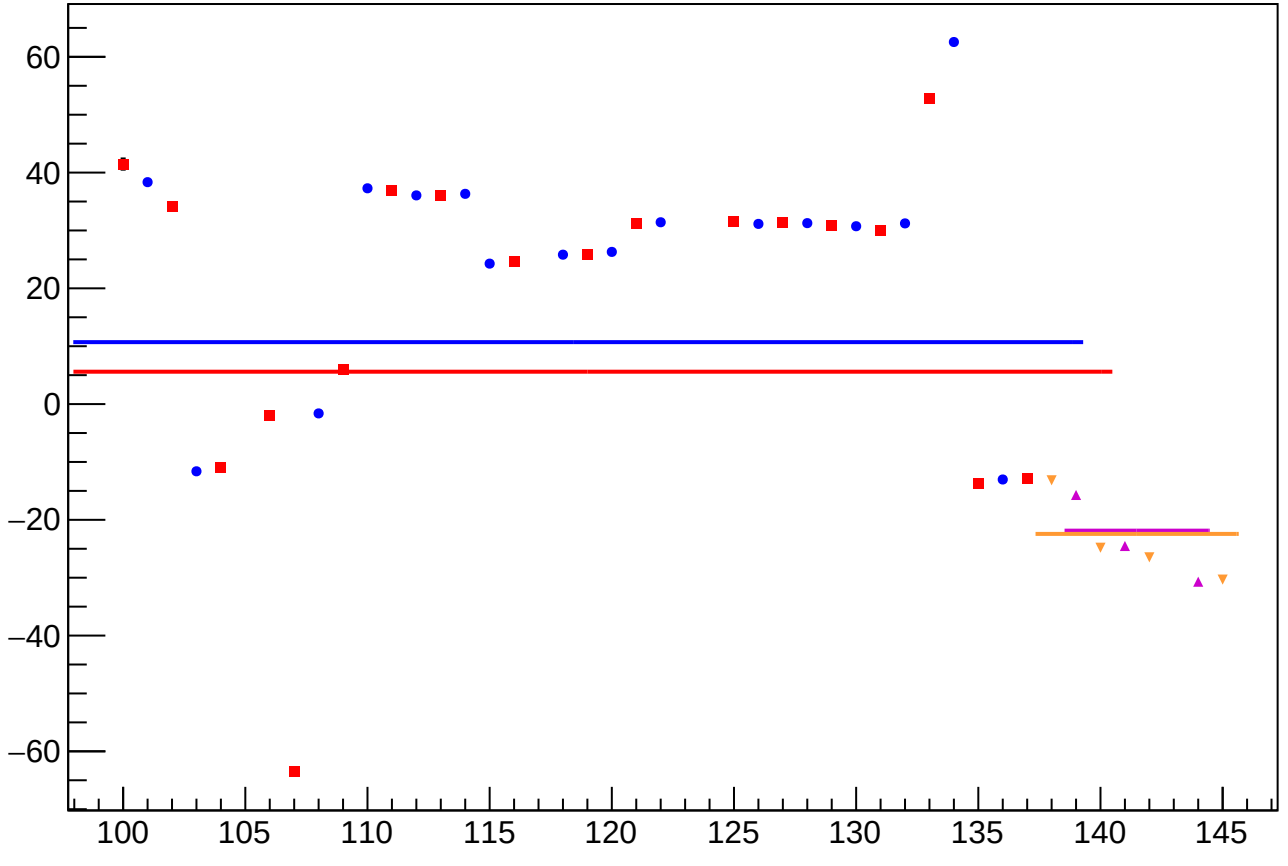
Right: -16.688+/-0.821 $\chi^2$/NDF: 1094.5/33

In: -11.245+/-0.942 $\chi^2$/NDF:665.2/18

Out: -9.449+/-0.905 $\chi^2$/NDF:670.4/21

All: -10.311+/-0.653 $\chi^2$/NDF: 1337.5/40

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: -22.432+/-0.061 $\chi^2$/NDF:13048.3/3

Right Out: 5.595+/-0.064 $\chi^2$/NDF: 154966.4/17

Left In: -21.870+/-0.064 $\chi^2$/NDF:9304.9/2

Left: -22.165+/-0.044 $\chi^2$/NDF: 22393.7/6

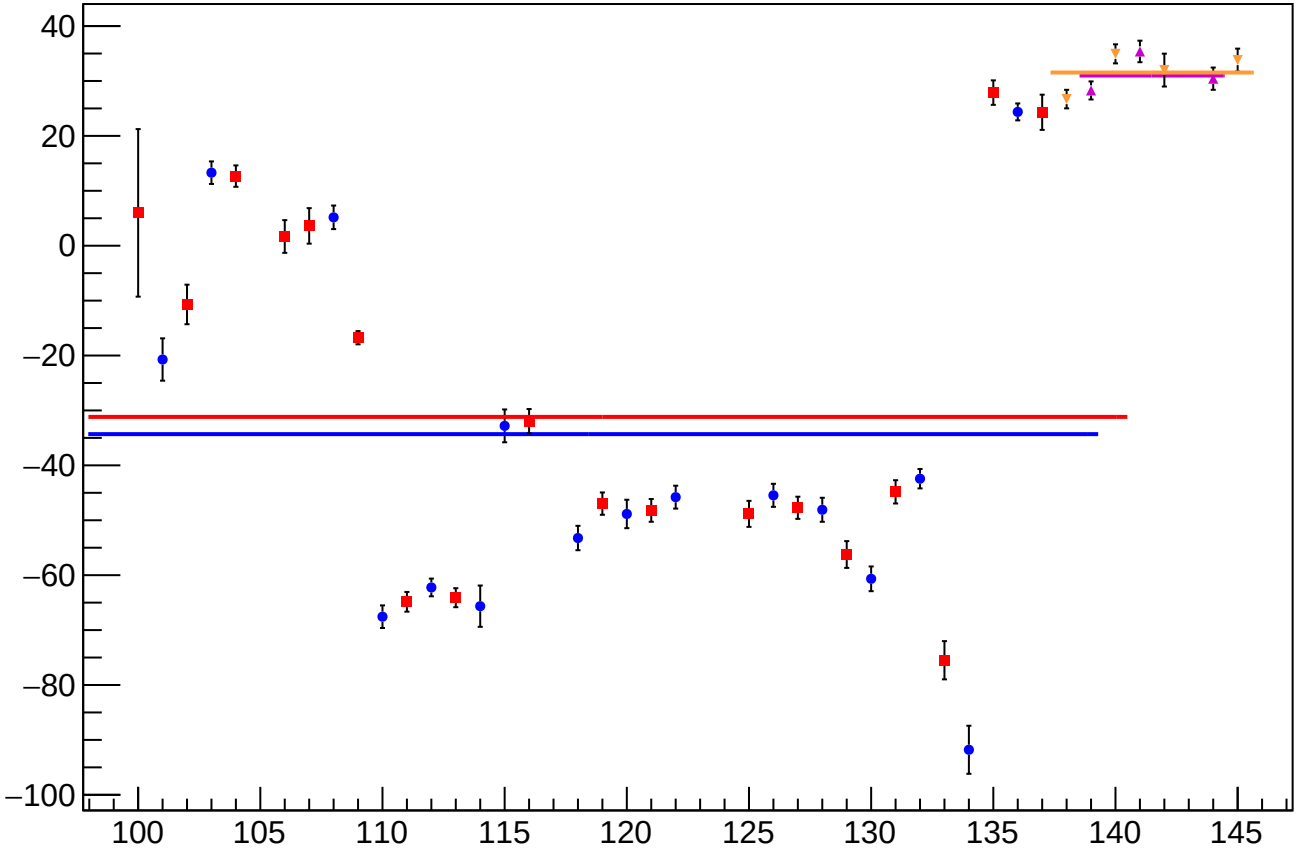
Right: 8.178+/-0.045 $\chi^2$/NDF: 323087.7/33

In: -5.299+/-0.045 $\chi^2$/NDF:305907.1/18

Out: -9.020+/-0.044 $\chi^2$/NDF:269233.0/21

All: -7.196+/-0.031 $\chi^2$/NDF: 578647.0/40

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -34.315+/-0.548 $\chi^2$/NDF: 3500.2/15

Left Out: 31.542+/-0.989 $\chi^2$/NDF:13.2/3

Right Out: -31.175+/-0.516 $\chi^2$/NDF: 3200.4/17

Left In: 30.991+/-1.070 $\chi^2$/NDF:7.8/2

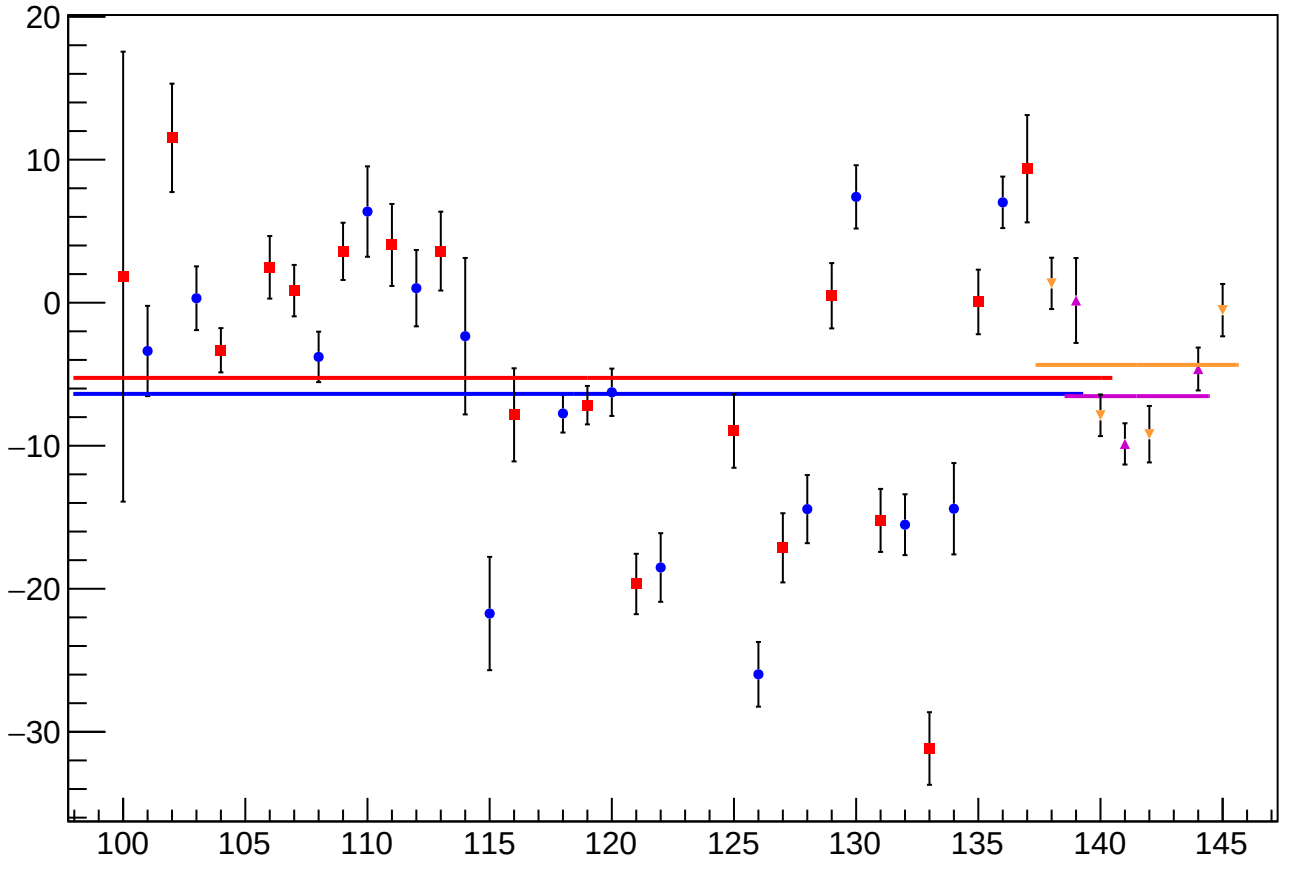
Left: 31.288+/-0.726 $\chi^2$/NDF: 21.2/6

Right: -32.651+/-0.375 $\chi^2$/NDF: 6718.0/33

In: -20.762+/-0.488 $\chi^2$/NDF:6457.8/18

Out: -17.767+/-0.457 $\chi^2$/NDF:6375.1/21

All: -19.168+/-0.334 $\chi^2$/NDF: 12853.0/40




Right In: -6.375+/-0.554 $\chi^2$/NDF: 283.6/15

Left Out: -4.347+/-0.864 $\chi^2$/NDF:26.4/3

Right Out: -5.256+/-0.533 $\chi^2$/NDF: 312.9/17

Left In: -6.532+/-0.981 $\chi^2$/NDF:12.0/2

Left: -5.302+/-0.649 $\chi^2$/NDF: 41.2/6

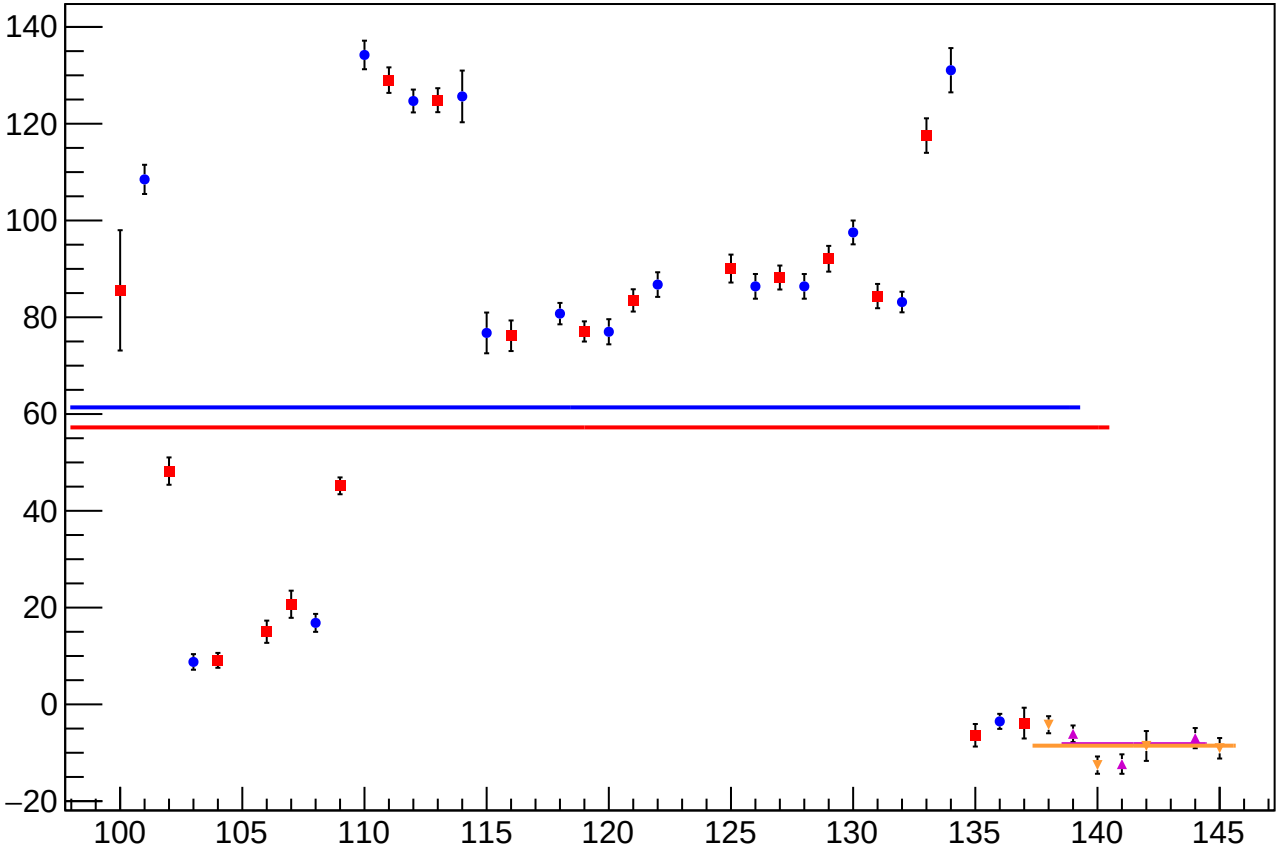
Right: -5.794+/-0.384 $\chi^2$/NDF: 598.6/33

In: -6.413+/-0.482 $\chi^2$/NDF:295.7/18

Out: -5.006+/-0.453 $\chi^2$/NDF:340.1/21

All: -5.667+/-0.330 $\chi^2$/NDF: 640.3/40

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: -8.533+/-1.019 $\chi^2$/NDF:11.1/3

Right Out: 57.240+/-0.580 $\chi^2$/NDF: 5267.5/17

Left In: -8.222+/-1.107 $\chi^2$/NDF:6.1/2

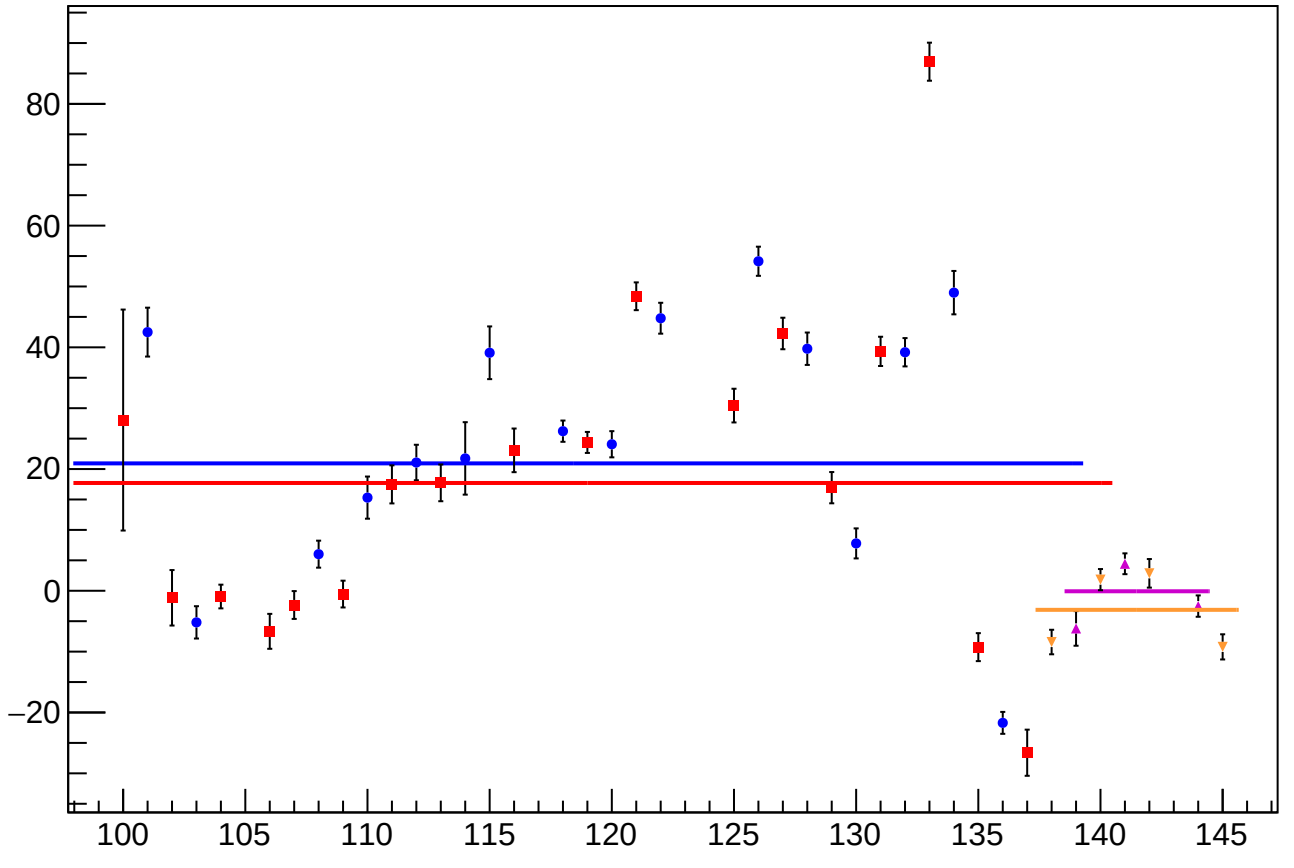
Left: -8.390+/-0.750 $\chi^2$/NDF: 17.3/6

Right: 59.259+/-0.415 $\chi^2$/NDF: 11359.0/33

In: 45.797+/-0.524 $\chi^2$/NDF:9143.0/18

Out: 41.147+/-0.504 $\chi^2$/NDF:8423.1/21

All: 43.384+/-0.363 $\chi^2$/NDF: 17607.0/40




Right In: 20.931+/-0.640 $\chi^2$/NDF: 1245.4/15

Left Out: -3.134+/-1.004 $\chi^2$/NDF:30.2/3

Right Out: 17.711+/-0.618 $\chi^2$/NDF: 1481.9/17

Left In: -0.084+/-1.125 $\chi^2$/NDF:13.5/2

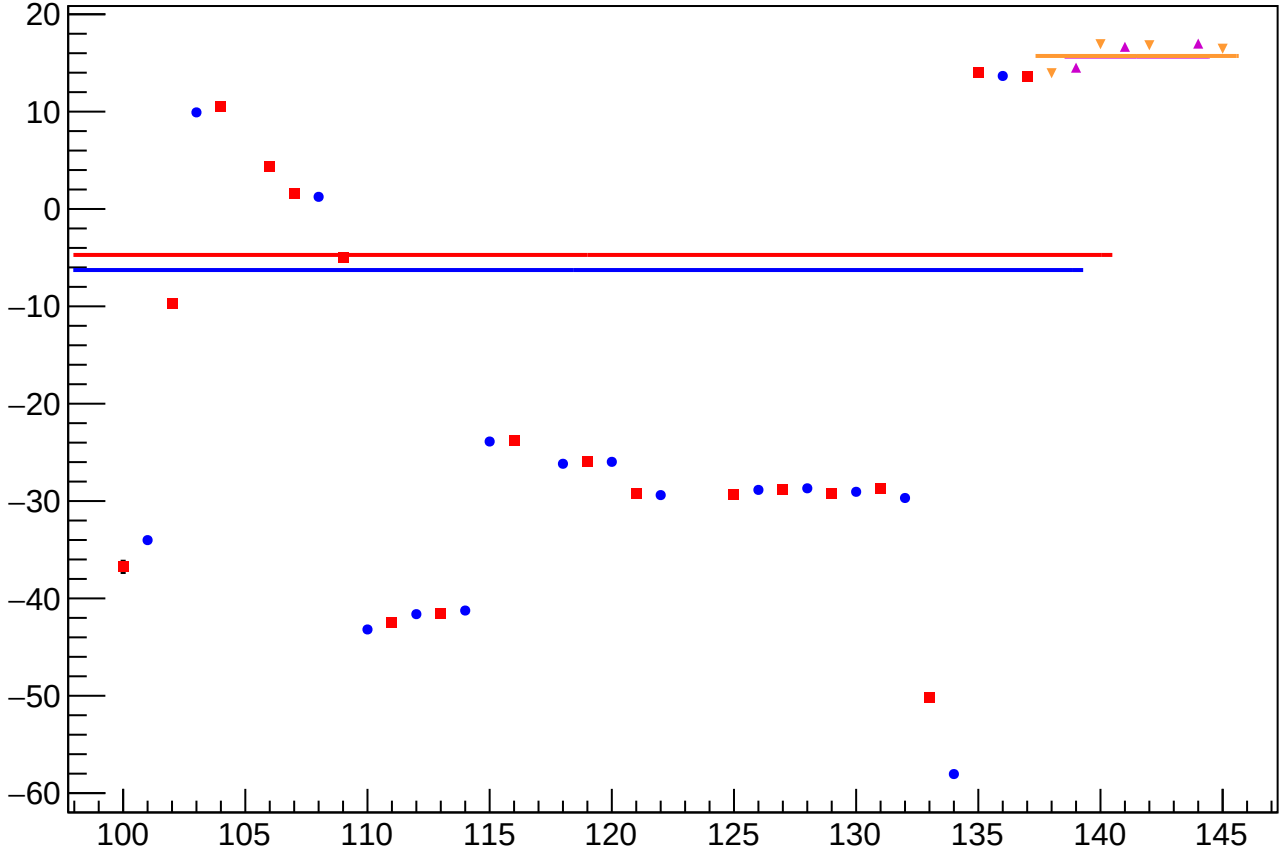
Left: -1.781+/-0.749 $\chi^2$/NDF: 47.8/6

Right: 19.265+/-0.445 $\chi^2$/NDF: 2740.4/33

In: 15.790+/-0.556 $\chi^2$/NDF:1522.6/18

Out: 11.984+/-0.526 $\chi^2$/NDF:1824.6/21

All: 13.782+/-0.382 $\chi^2$/NDF: 3371.9/40




Right In: -6.271+/-0.033 $\chi^2$/NDF: 410461.0/15

Left Out: 15.717+/-0.042 $\chi^2$/NDF:1043.5/3

Right Out: -4.720+/-0.034 $\chi^2$/NDF: 306663.6/17

Left In: 15.653+/-0.043 $\chi^2$/NDF:700.9/2

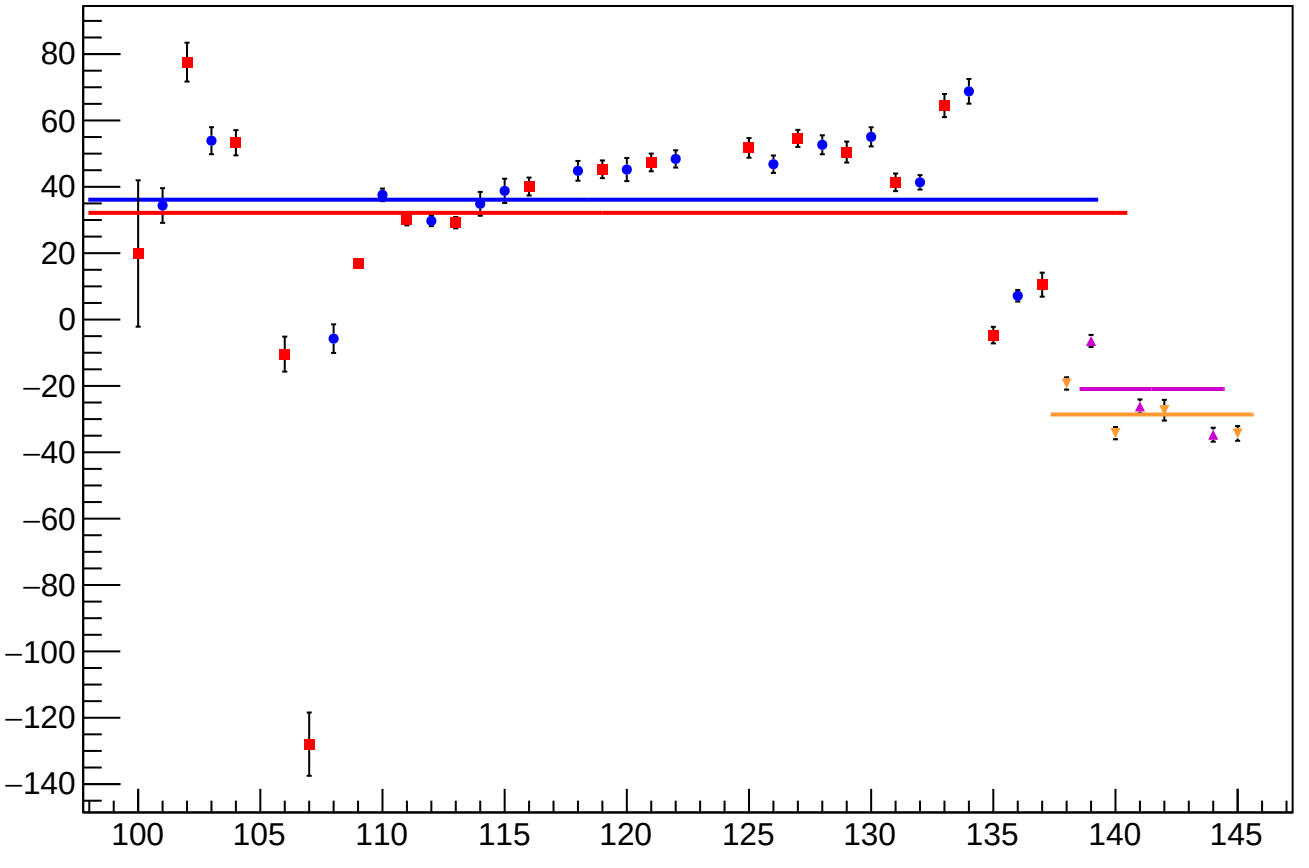
Left: 15.687+/-0.030 $\chi^2$/NDF: 1745.5/6

Right: -5.502+/-0.024 $\chi^2$/NDF: 718193.1/33

In: 1.889+/-0.026 $\chi^2$/NDF:571377.6/18

Out: 3.350+/-0.026 $\chi^2$/NDF:453032.4/21

All: 2.627+/-0.019 $\chi^2$/NDF: 1025948.8/40




Right In: 36.118+/-0.656 $\chi^2$/NDF: 622.8/15

Left Out: -28.607+/-1.063 $\chi^2$/NDF:41.1/3

Right Out: 32.150+/-0.631 $\chi^2$/NDF: 1114.6/17

Left In: -20.936+/-1.154 $\chi^2$/NDF:111.4/2

Left: -25.086+/-0.782 $\chi^2$/NDF: 176.4/6

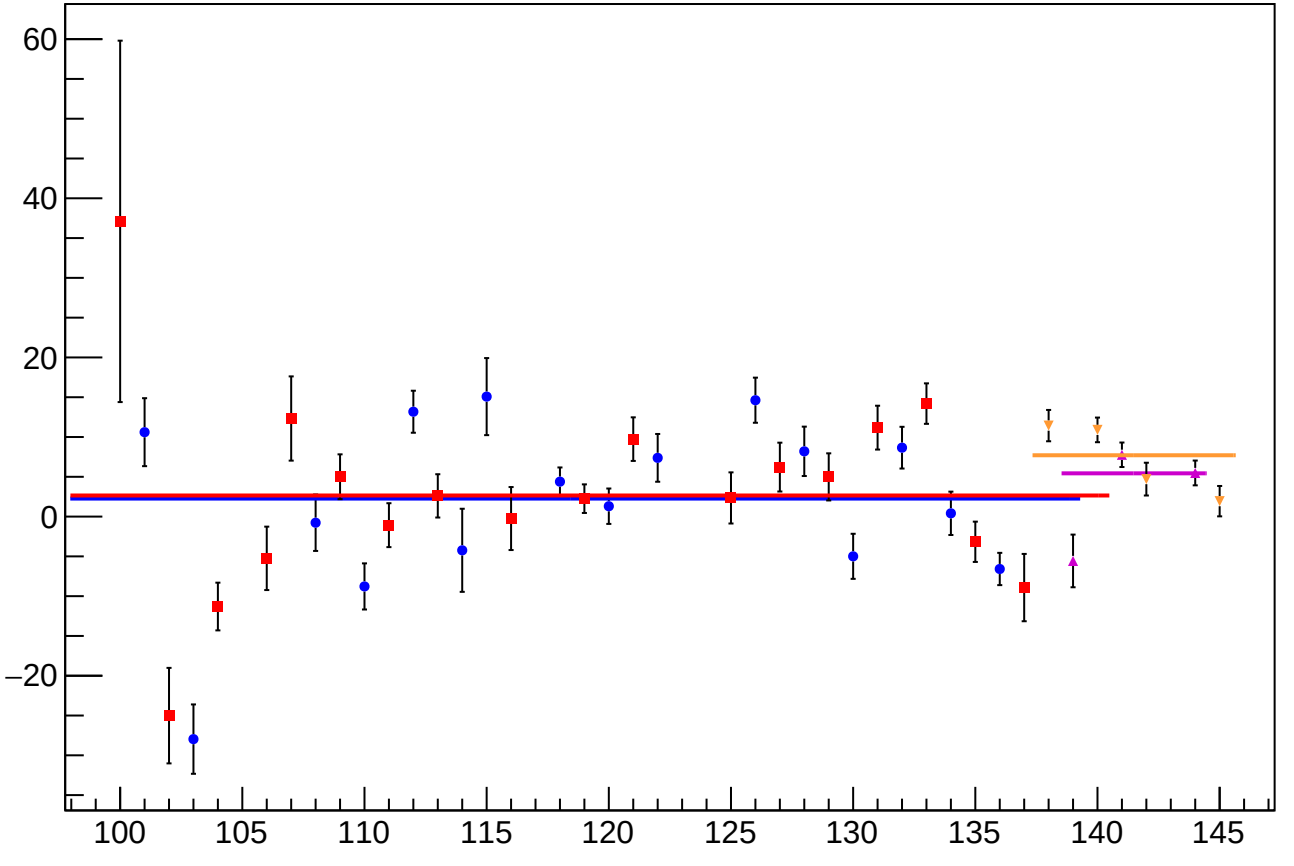
Right: 34.055+/-0.455 $\chi^2$/NDF: 1756.4/33

In: 22.166+/-0.571 $\chi^2$/NDF:2581.6/18

Out: 16.329+/-0.542 $\chi^2$/NDF:3572.8/21

All: 19.100+/-0.393 $\chi^2$/NDF: 6209.4/40

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: 7.707+/-0.918 $\chi^2$/NDF:19.1/3

Right Out: 2.651+/-0.715 $\chi^2$/NDF: 107.2/17

Left In: 5.436+/-1.039 $\chi^2$/NDF:13.4/2

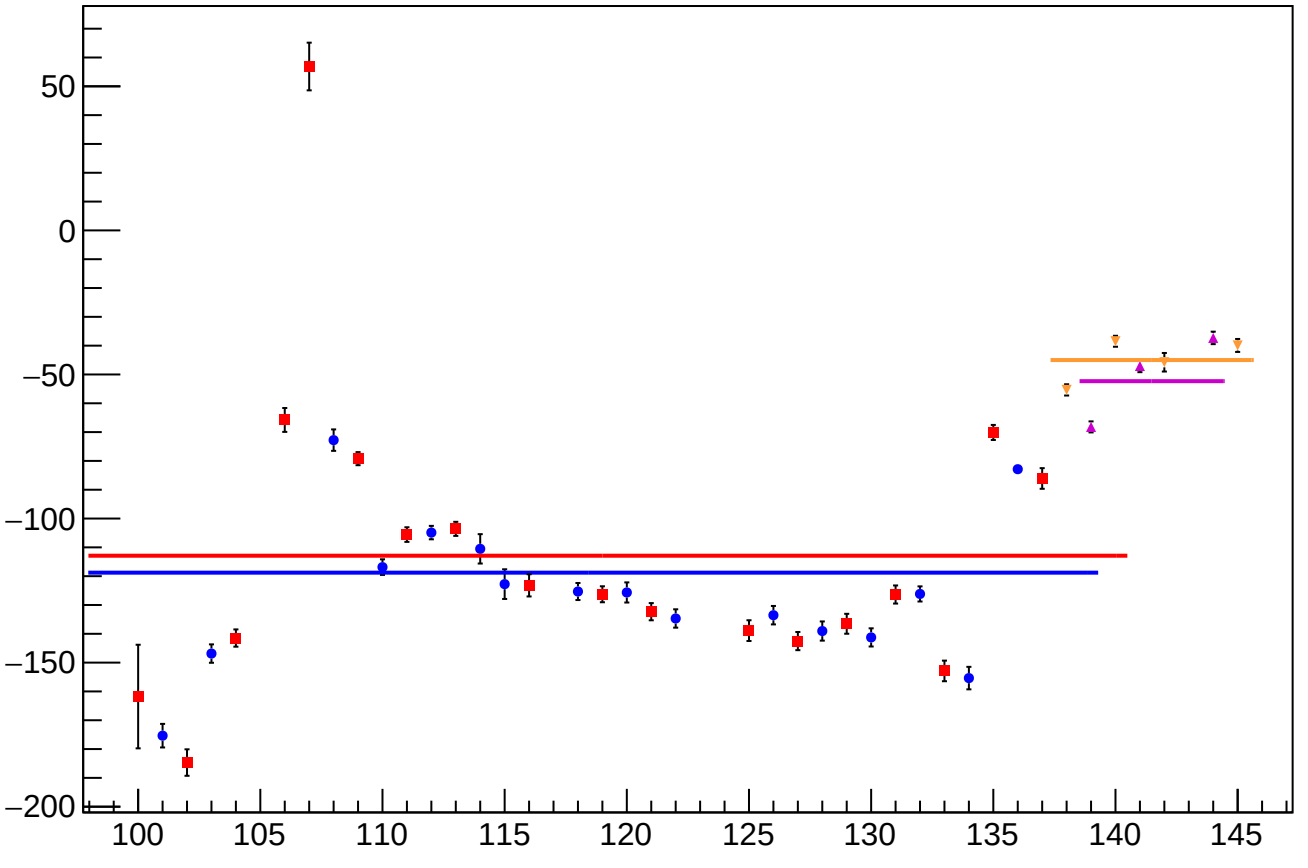
Left: 6.711+/-0.688 $\chi^2$/NDF: 35.1/6

Right: 2.454+/-0.501 $\chi^2$/NDF: 259.4/33

In: 3.258+/-0.581 $\chi^2$/NDF:171.8/18

Out: 4.560+/-0.564 $\chi^2$/NDF:145.2/21

All: 3.928+/-0.405 $\chi^2$/NDF: 319.5/40




Right In: -118.778+/-0.757 $\chi^2$/NDF: 1119.5/15

Left Out: -44.996+/-1.096 $\chi^2$/NDF:45.1/3

Right Out: -112.899+/-0.761 $\chi^2$/NDF: 1862.9/17

Left In: -52.322+/-1.192 $\chi^2$/NDF:123.0/2

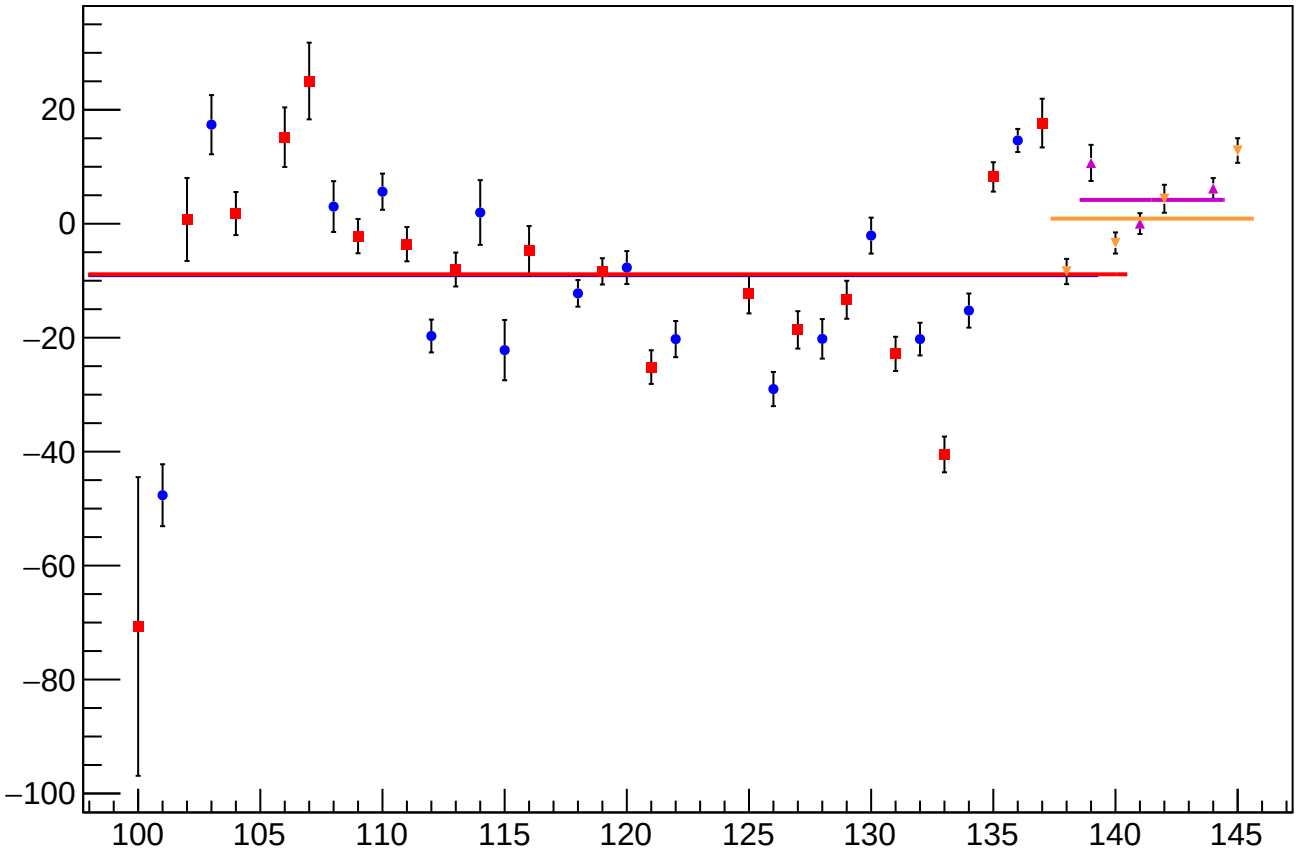
Left: -48.351+/-0.807 $\chi^2$/NDF: 188.5/6

Right: -115.855+/-0.537 $\chi^2$/NDF: 3012.4/33

In: -99.692+/-0.639 $\chi^2$/NDF:3456.9/18

Out: -90.815+/-0.625 $\chi^2$/NDF:4497.6/21

All: -95.156+/-0.447 $\chi^2$/NDF: 8053.1/40




Right In: -9.022+/-0.796 $\chi^2$/NDF: 358.0/15

Left Out: 0.898+/-1.069 $\chi^2$/NDF:55.5/3

Right Out: -8.878+/-0.810 $\chi^2$/NDF: 318.7/17

Left In: 4.187+/-1.194 $\chi^2$/NDF:10.6/2

Left: 2.360+/-0.796 $\chi^2$/NDF: 70.3/6

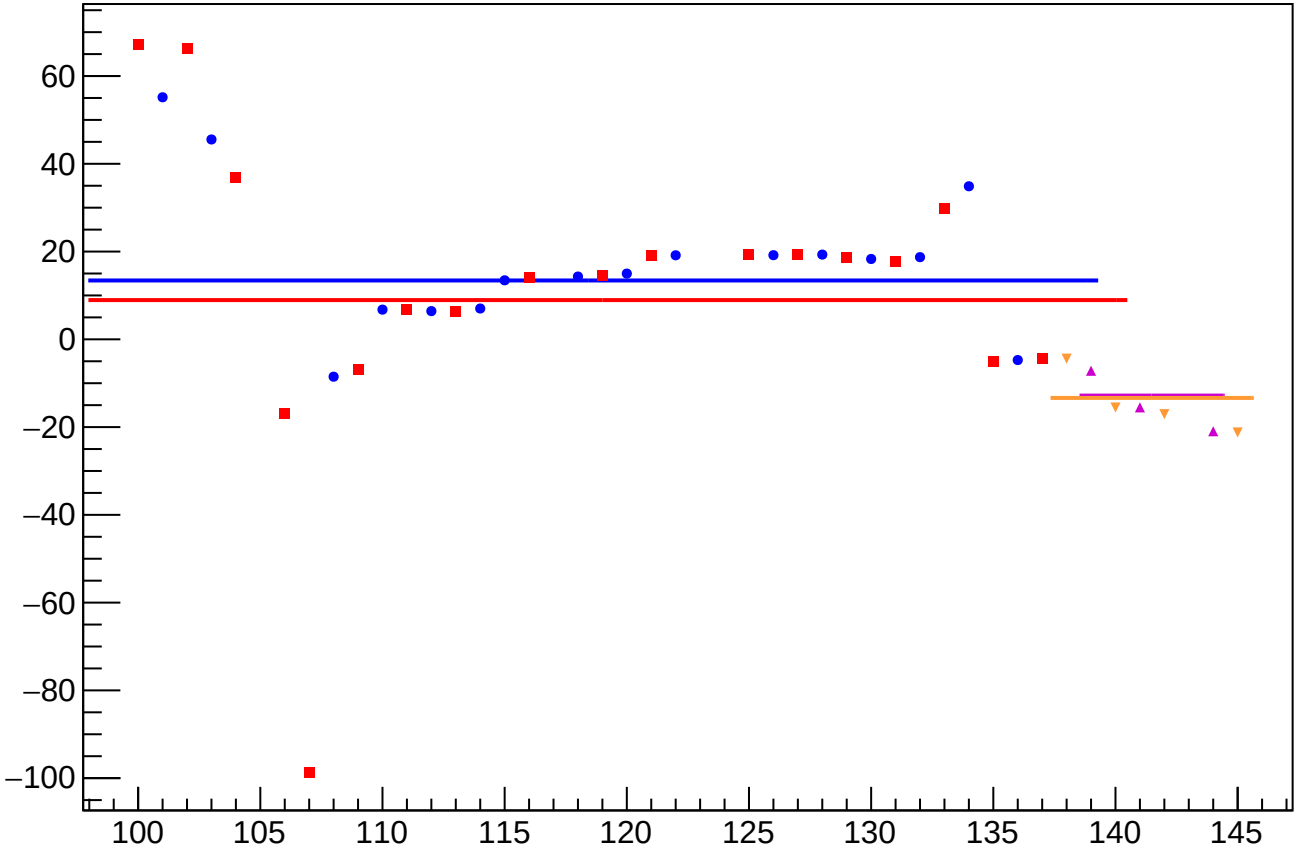
Right: -8.951+/-0.568 $\chi^2$/NDF: 676.8/33

In: -4.962+/-0.662 $\chi^2$/NDF:453.3/18

Out: -5.309+/-0.646 $\chi^2$/NDF:427.3/21

All: -5.140+/-0.462 $\chi^2$/NDF: 880.8/40

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: -13.351+/-0.045 $\chi^2$/NDF:22924.6/3

Right Out: 8.943+/-0.047 $\chi^2$/NDF: 291126.5/17

Left In: -12.824+/-0.047 $\chi^2$/NDF:14857.3/2

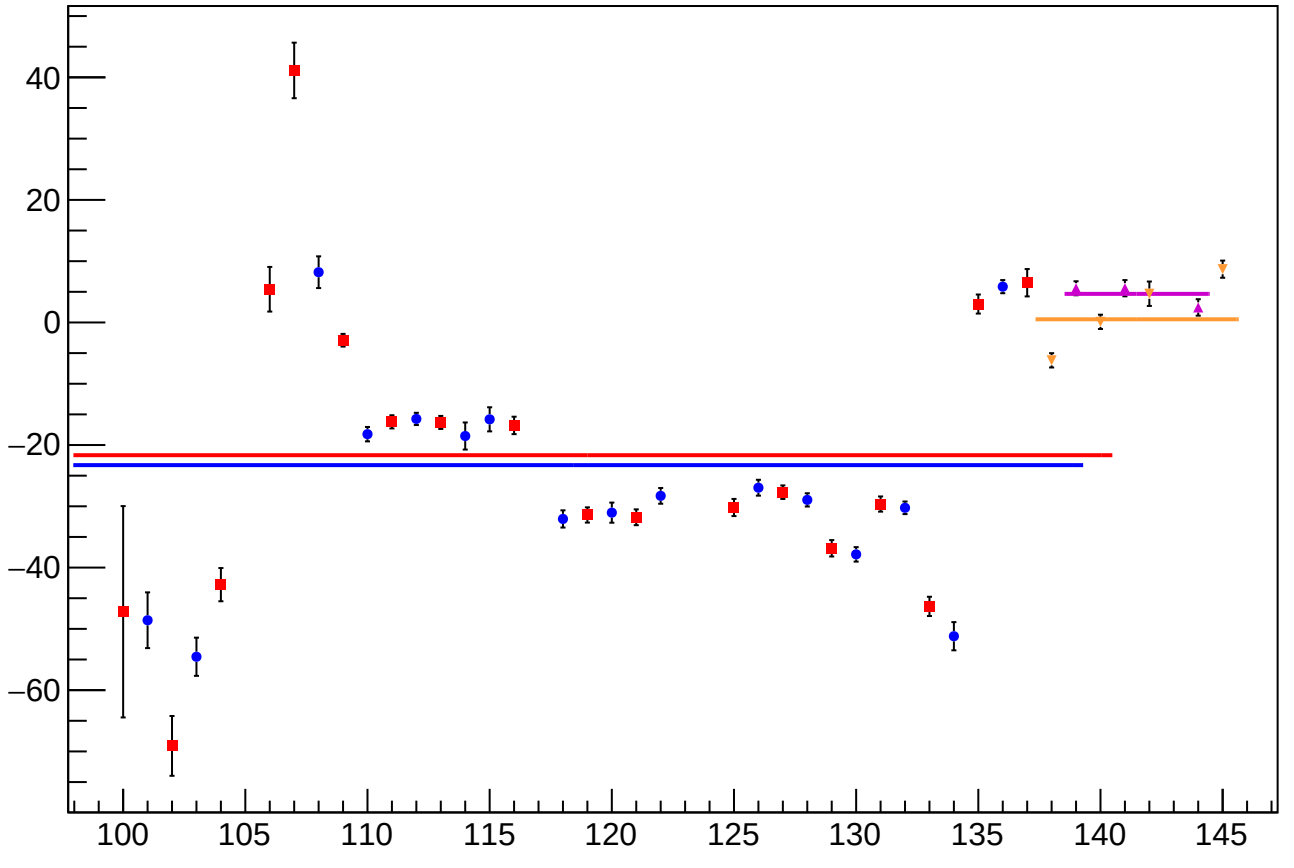
Left: -13.100+/-0.032 $\chi^2$/NDF: 37847.6/6

Right: 11.280+/-0.033 $\chi^2$/NDF: 479481.6/33

In: 0.793+/-0.033 $\chi^2$/NDF:360024.7/18

Out: -2.799+/-0.033 $\chi^2$/NDF:430564.9/21

All: -1.003+/-0.023 $\chi^2$/NDF: 796652.7/40




Right In: -23.281+/-0.350 $\chi^2$/NDF: 1567.9/15

Left Out: 0.518+/-0.669 $\chi^2$/NDF:71.6/3

Right Out: -21.660+/-0.347 $\chi^2$/NDF: 1813.6/17

Left In: 4.667+/-0.727 $\chi^2$/NDF:3.8/2

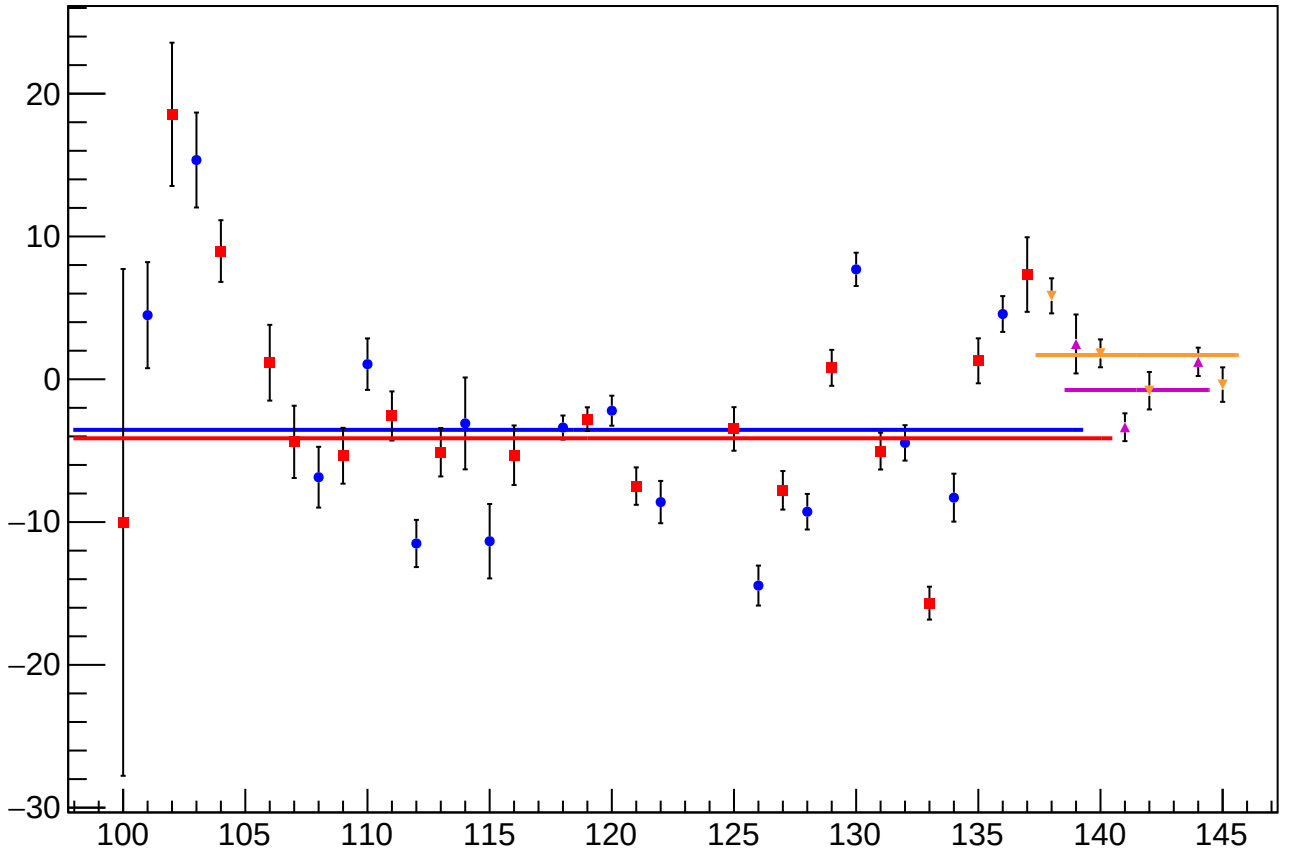
Left: 2.420+/-0.493 $\chi^2$/NDF: 93.0/6

Right: -22.463+/-0.247 $\chi^2$/NDF: 3392.3/33

In: -18.016+/-0.316 $\chi^2$/NDF:2770.1/18

Out: -16.955+/-0.308 $\chi^2$/NDF:2750.0/21

All: -17.473+/-0.221 $\chi^2$/NDF: 5525.9/40




Right In: -3.541+/-0.363 $\chi^2$/NDF: 316.8/15

Left Out: 1.699+/-0.580 $\chi^2$/NDF:17.9/3

Right Out: -4.132+/-0.371 $\chi^2$/NDF: 227.4/17

Left In: -0.750+/-0.659 $\chi^2$/NDF:13.6/2

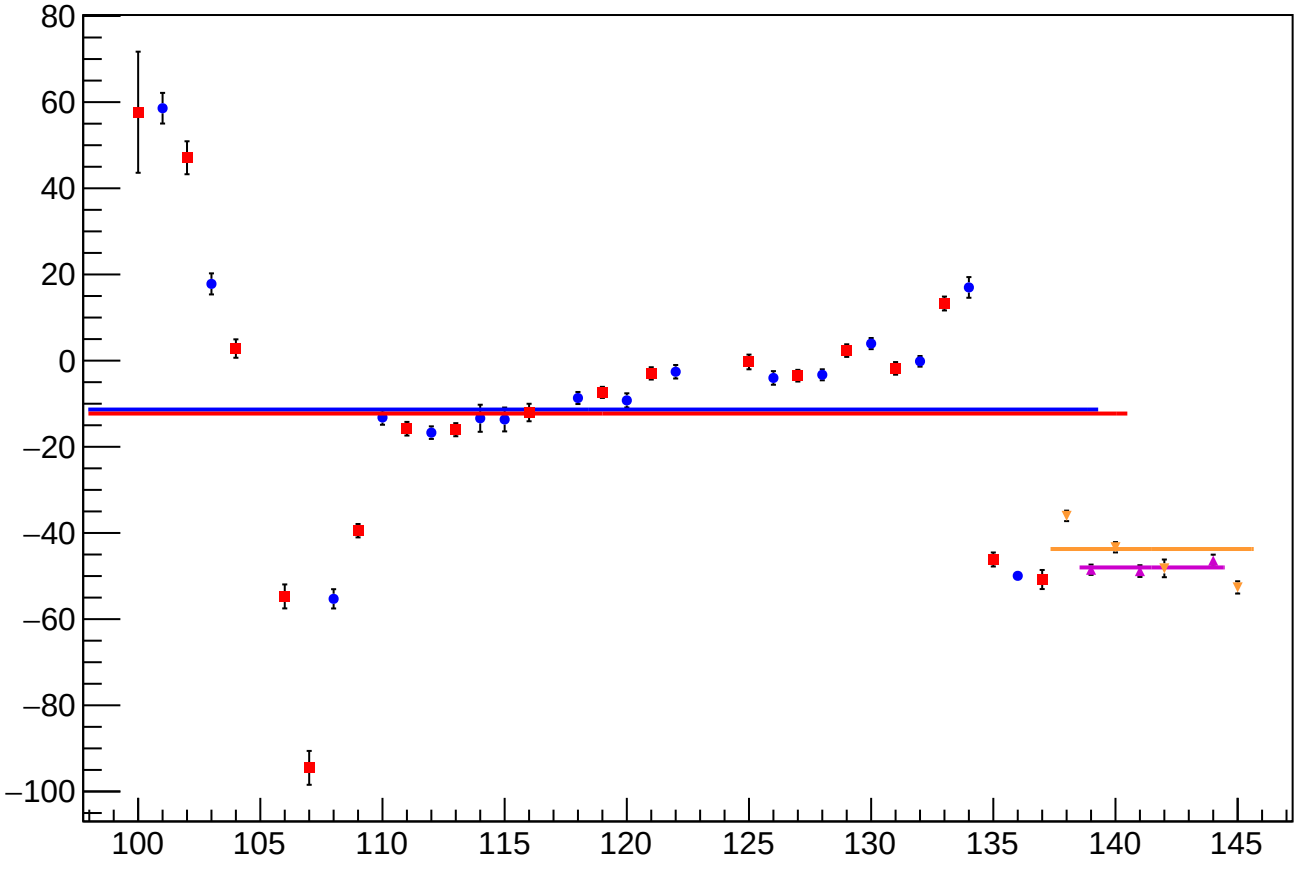
Left: 0.630+/-0.435 $\chi^2$/NDF: 39.3/6

Right: -3.830+/-0.259 $\chi^2$/NDF: 545.5/33

In: -2.892+/-0.318 $\chi^2$/NDF:344.1/18

Out: -2.440+/-0.312 $\chi^2$/NDF:317.2/21

All: -2.662+/-0.223 $\chi^2$/NDF: 662.3/40




Right In: -11.355+/-0.406 $\chi^2$/NDF: 2661.6/15

Left Out: -43.722+/-0.690 $\chi^2$/NDF:83.9/3

Right Out: -12.281+/-0.413 $\chi^2$/NDF: 2590.4/17

Left In: -48.001+/-0.752 $\chi^2$/NDF:1.9/2

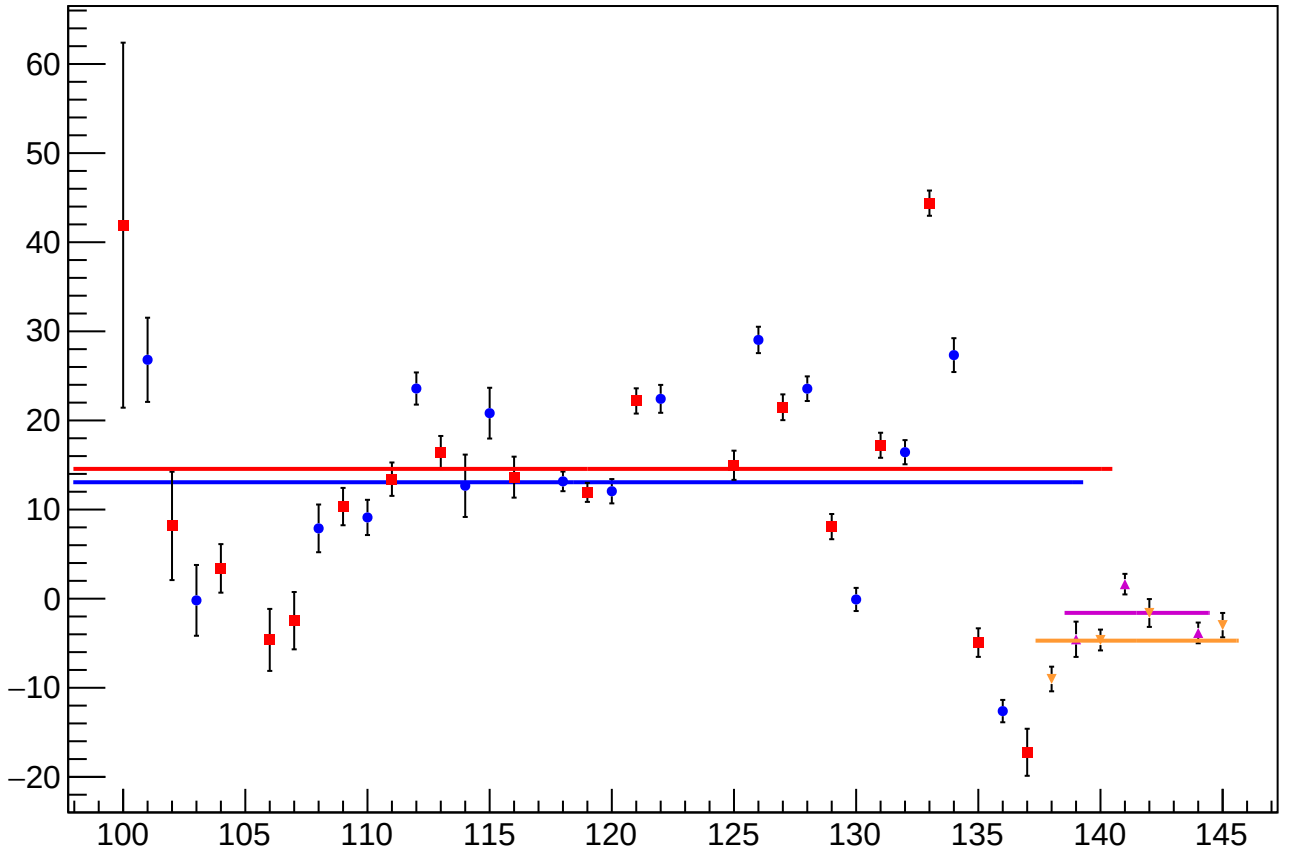
Left: -45.680+/-0.508 $\chi^2$/NDF: 103.4/6

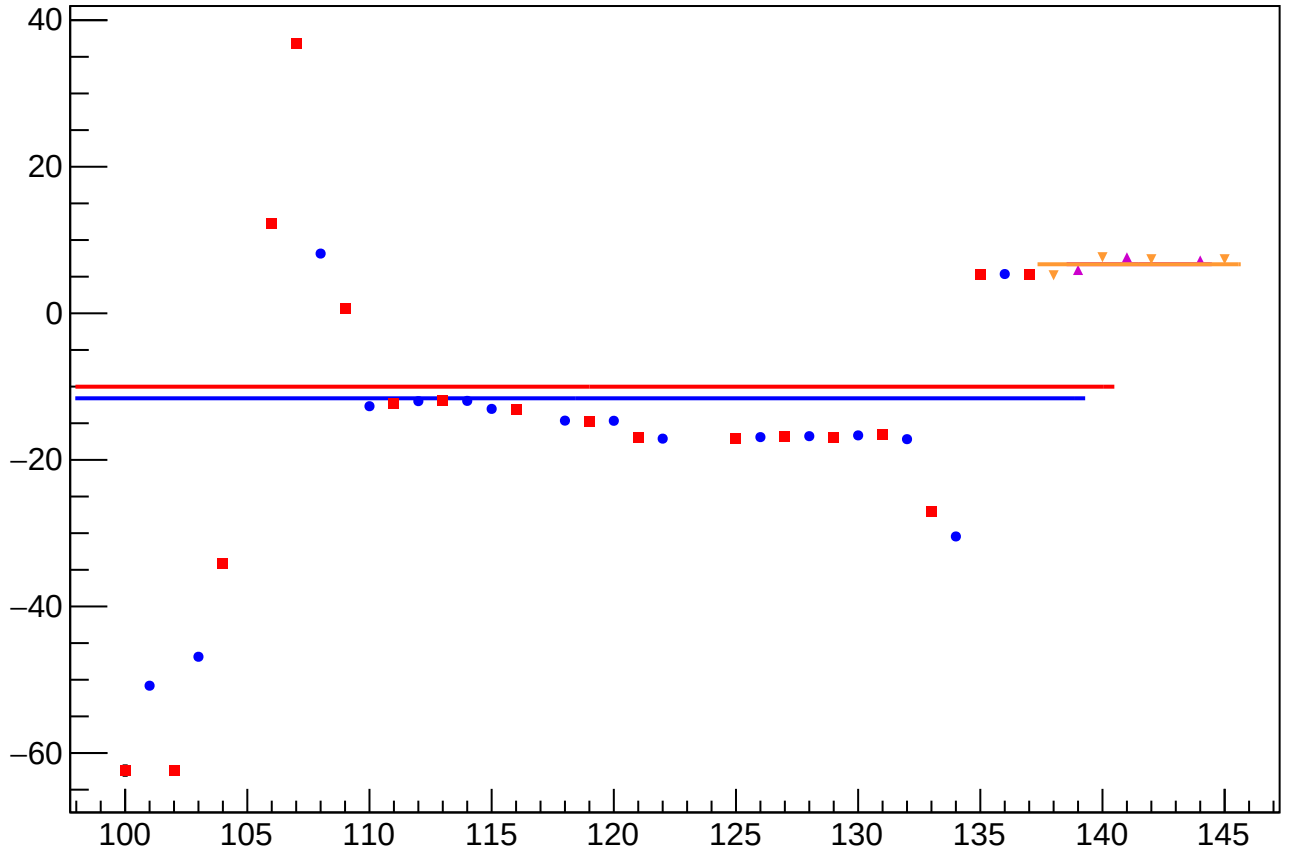
Right: -11.809+/-0.289 $\chi^2$/NDF: 5254.6/33

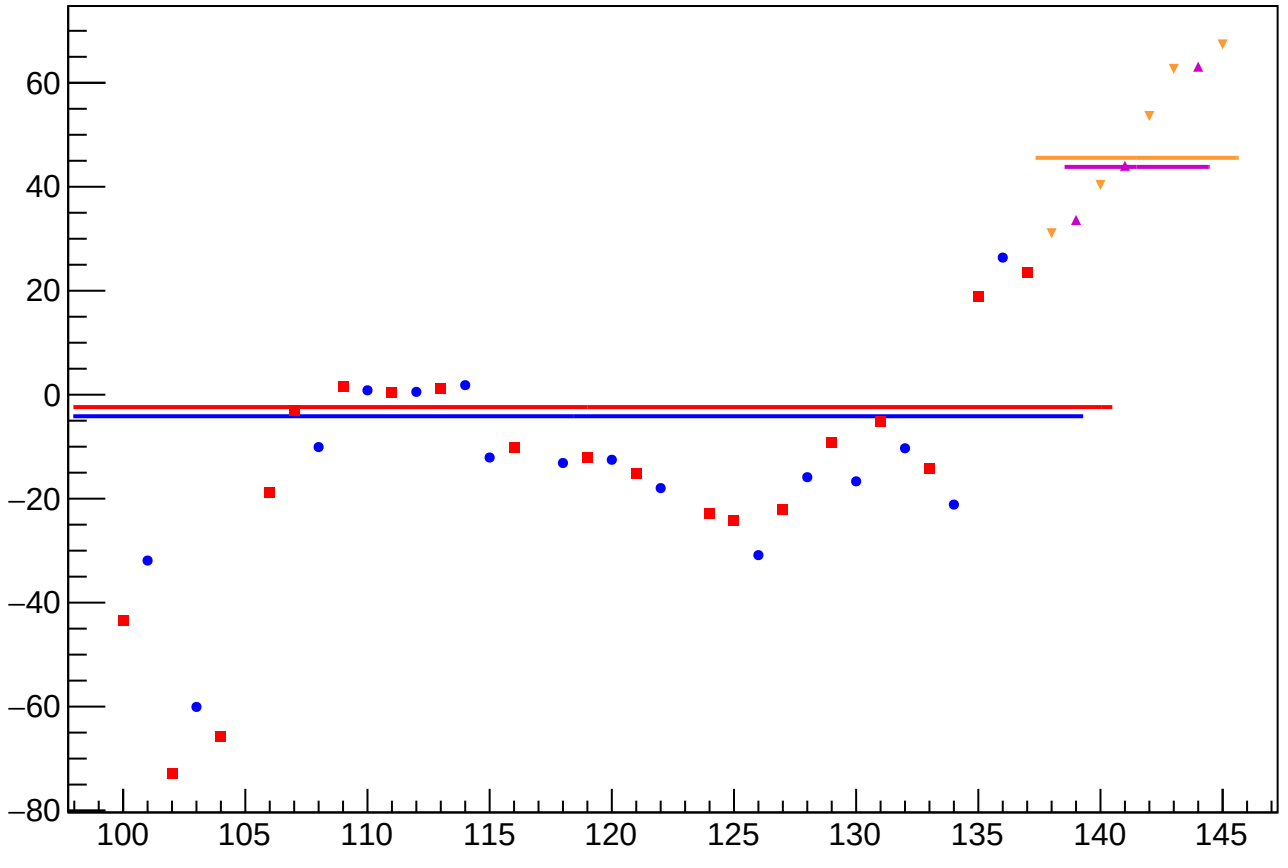
In: -19.621+/-0.357 $\chi^2$/NDF:4504.1/18

Out: -20.573+/-0.355 $\chi^2$/NDF:4201.6/21

All: -20.100+/-0.252 $\chi^2$/NDF: 8709.3/40


reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
60
50
40
30
20
10
0
−10
−20
100
105
110
115
120
125
130
135
140
145
Right In: 13.066+/-0.415 χ²/NDF: 863.4/15
Left Out: -4.711+/-0.674 χ²/NDF:15.2/3
Right Out: 14.563+/-0.423 χ²/NDF: 903.1/17
Left In: -1.594+/-0.757 χ²/NDF:13.8/2
Left: -3.331+/-0.503 χ²/NDF: 38.5/6
Right: 13.801+/-0.296 χ²/NDF: 1772.9/33
In: 9.679+/-0.364 χ²/NDF:1165.9/18
Out: 9.132+/-0.358 χ²/NDF:1504.8/21
All: 9.401+/-0.255 χ²/NDF: 2671.9/40


reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
100
105
110
115
120
125
130
135
140
145
Right In: -11.596+/-0.026 χ²/NDF: 360523.2/15
Left Out: 6.693+/-0.028 χ²/NDF:1524.5/3
Right Out: -10.012+/-0.027 χ²/NDF: 396286.9/17
Left In: 6.708+/-0.030 χ²/NDF:699.3/2
Left: 6.700+/-0.020 χ²/NDF: 2224.0/6
Right: -10.837+/-0.019 χ²/NDF: 758546.1/33
In: -3.520+/-0.020 χ²/NDF:574767.7/18
Out: -1.915+/-0.020 χ²/NDF:577382.6/21
All: -2.719+/-0.014 χ²/NDF: 1155476.1/40




Right In: -4.145+/-0.055 $\chi^2$/NDF: 75262.7/15

Left Out: 45.568+/-0.116 $\chi^2$/NDF:13958.1/4

Right Out: -2.382+/-0.046 $\chi^2$/NDF: 80749.3/18

Left In: 43.825+/-0.130 $\chi^2$/NDF:7690.3/2

Left: 44.794+/-0.087 $\chi^2$/NDF: 21748.2/7

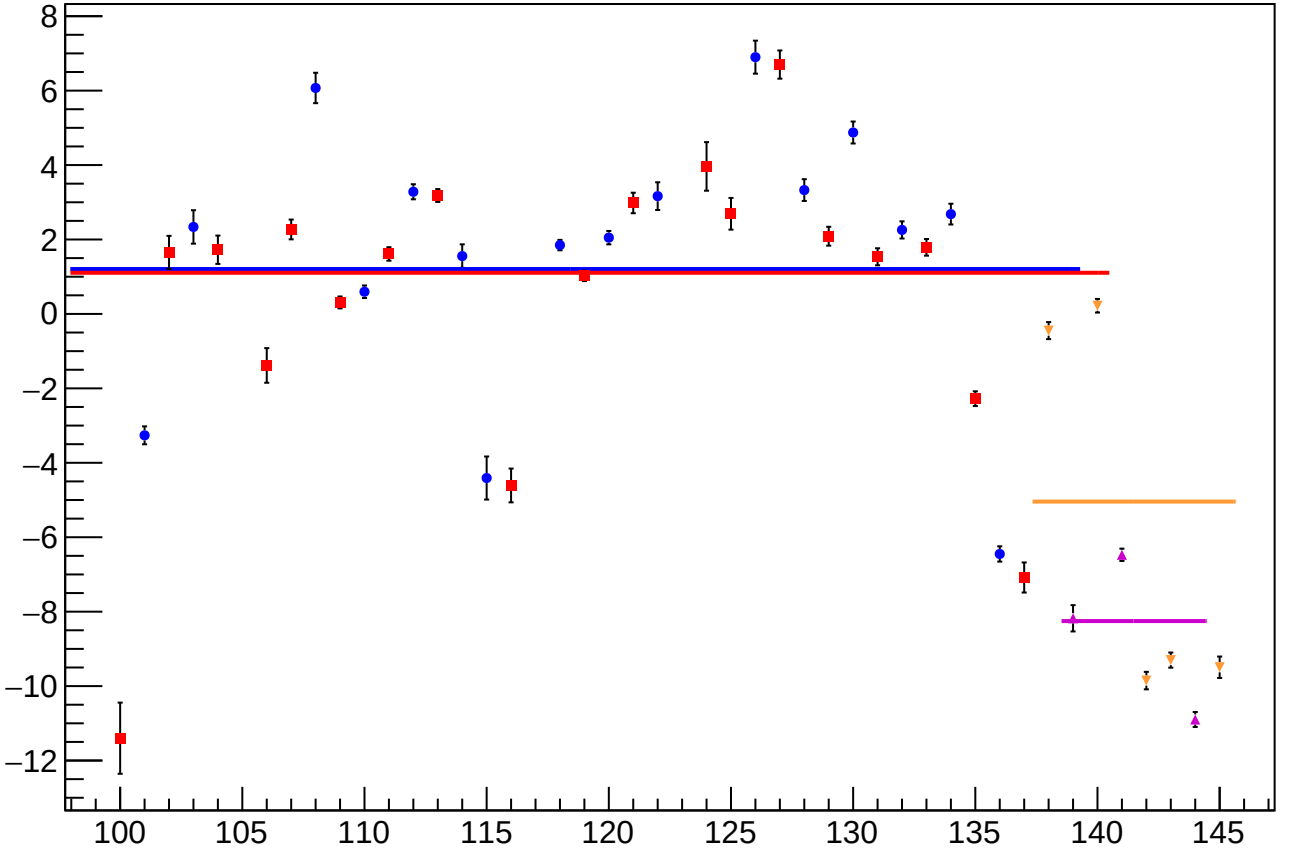
Right: -3.115+/-0.035 $\chi^2$/NDF: 156619.4/34

In: 3.052+/-0.050 $\chi^2$/NDF:198417.8/18

Out: 4.141+/-0.043 $\chi^2$/NDF:241666.7/23

All: 3.684+/-0.033 $\chi^2$/NDF: 440355.7/42

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.206+/-0.060 $\chi^2$/NDF: 2584.4/15

Left Out: -5.042+/-0.098 $\chi^2$/NDF:2321.6/4

Right Out: 1.106+/-0.057 $\chi^2$/NDF: 1587.2/18

Left In: -8.253+/-0.120 $\chi^2$/NDF:288.4/2

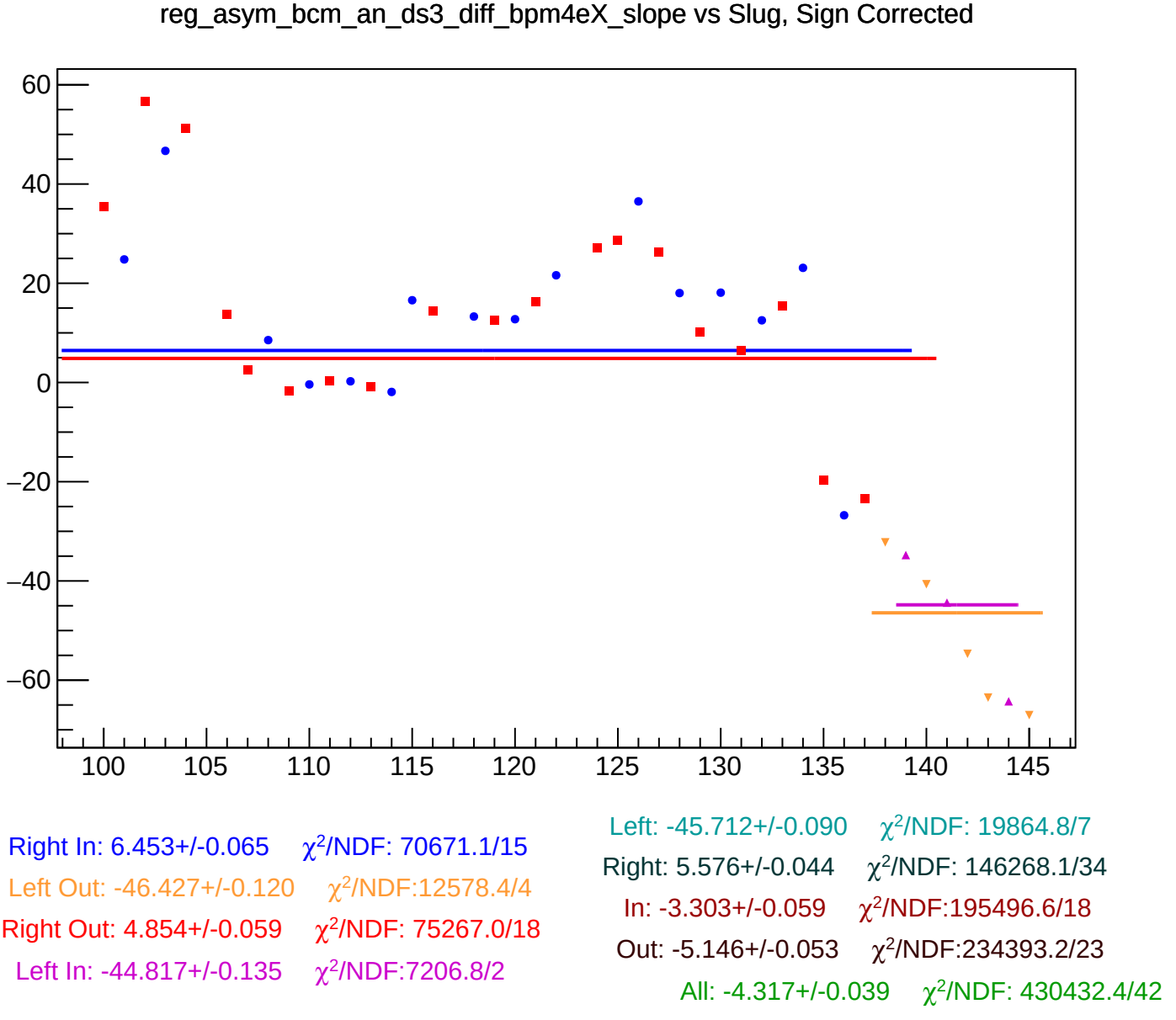
Left: -6.331+/-0.076 $\chi^2$/NDF: 3036.5/7

Right: 1.153+/-0.042 $\chi^2$/NDF: 4173.1/34

In: -0.700+/-0.054 $\chi^2$/NDF:7810.1/18

Out: -0.446+/-0.049 $\chi^2$/NDF:6822.2/23

All: -0.562+/-0.036 $\chi^2$/NDF: 14644.4/42


reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs Slug, Sign Corrected
60
40
20
0
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−40
−60
100
105
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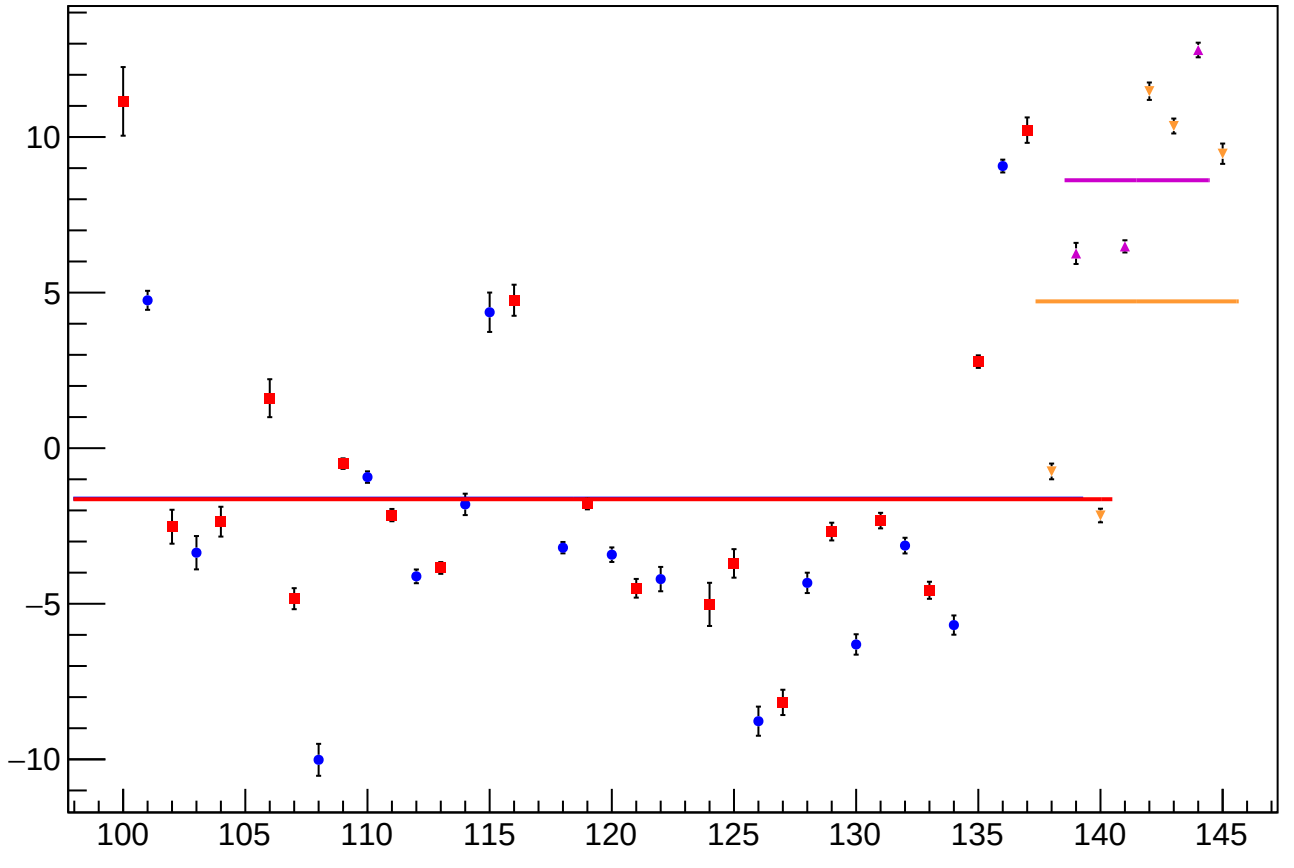
120
125
130
135
140
145
Right In: 6.453+/-0.065 χ²/NDF: 70671.1/15
Left Out: -46.427+/-0.120 χ²/NDF:12578.4/4
Right Out: 4.854+/-0.059 χ²/NDF: 75267.0/18
Left In: -44.817+/-0.135 χ²/NDF:7206.8/2
Left: -45.712+/-0.090 χ²/NDF: 19864.8/7
Right: 5.576+/-0.044 χ²/NDF: 146268.1/34
In: -3.303+/-0.059 χ²/NDF:195496.6/18
Out: -5.146+/-0.053 χ²/NDF:234393.2/23
All: -4.317+/-0.039 χ²/NDF: 430432.4/42




Right In: -1.622+/-0.070 $\chi^2$/NDF: 4525.3/15

Left Out: 4.718+/-0.115 $\chi^2$/NDF:2800.4/4

Right Out: -1.640+/-0.065 $\chi^2$/NDF: 2462.1/18

Left In: 8.611+/-0.138 $\chi^2$/NDF:481.2/2

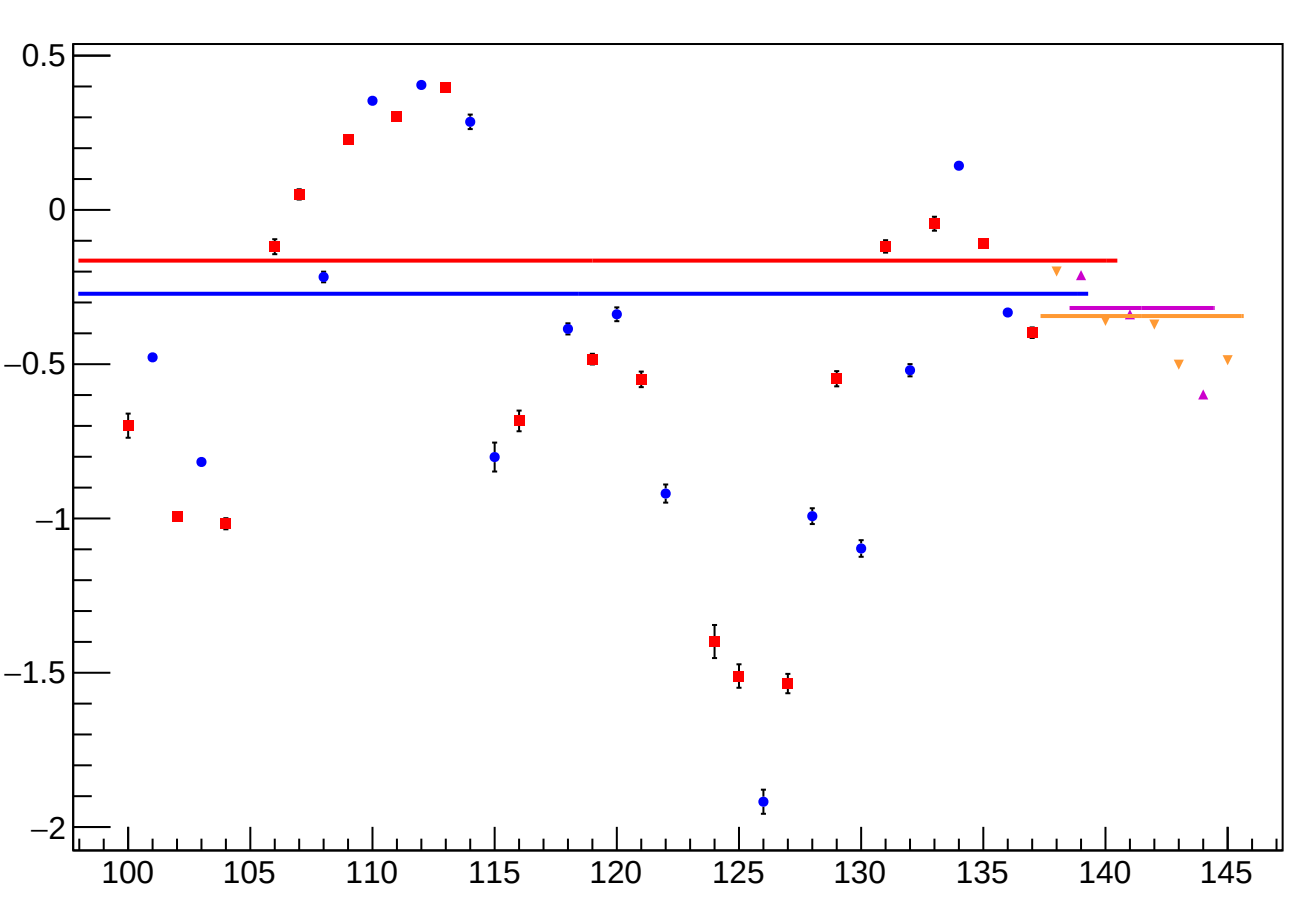
Left: 6.311+/-0.088 $\chi^2$/NDF: 3752.9/7

Right: -1.632+/-0.047 $\chi^2$/NDF: 6987.4/34

In: 0.457+/-0.062 $\chi^2$/NDF:9398.5/18

Out: -0.110+/-0.056 $\chi^2$/NDF:7596.5/23

All: 0.145+/-0.042 $\chi^2$/NDF: 17040.8/42




Right In: -0.272+/-0.004 $\chi^2$/NDF: 12048.2/15

Left Out: -0.344+/-0.005 $\chi^2$/NDF:601.2/4

Right Out: -0.164+/-0.004 $\chi^2$/NDF: 15497.0/18

Left In: -0.318+/-0.005 $\chi^2$/NDF:714.7/2

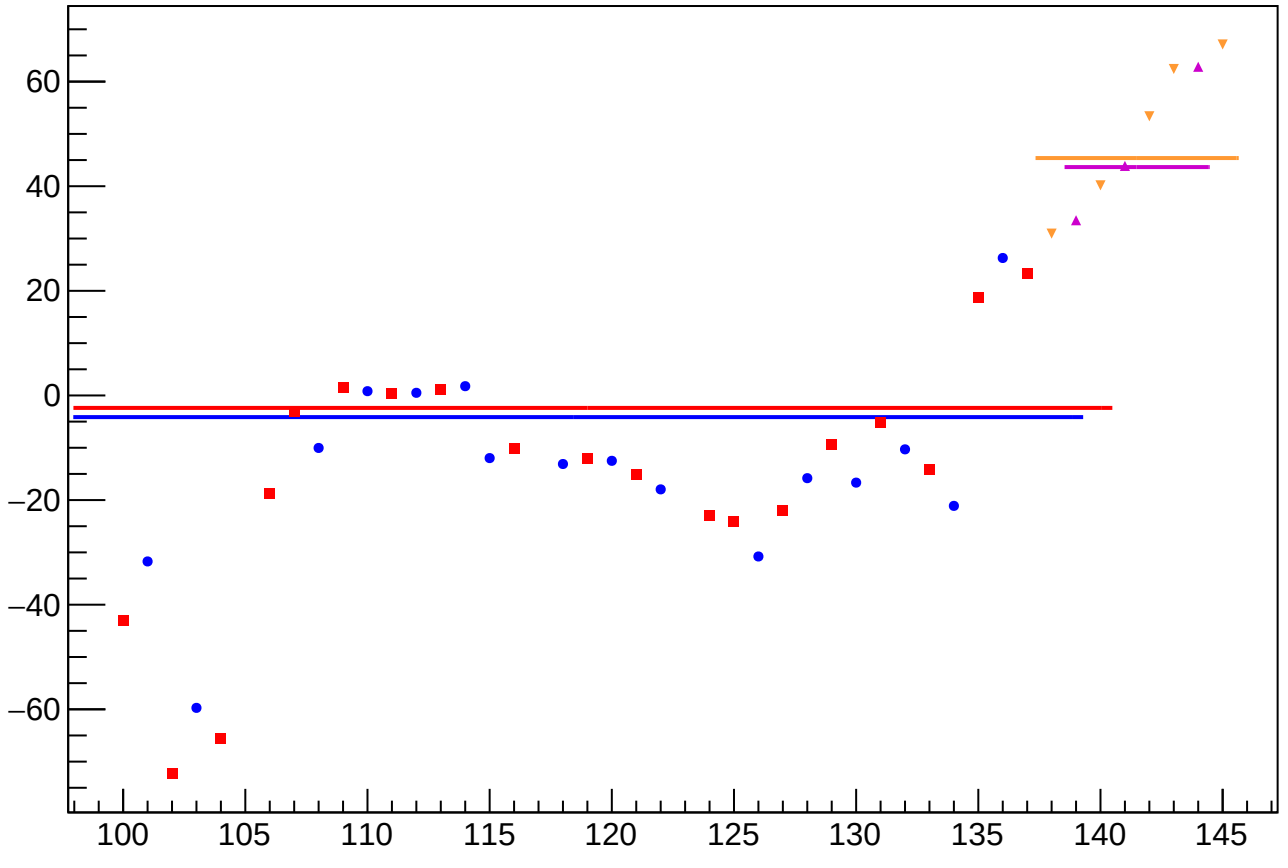
Left: -0.332+/-0.004 $\chi^2$/NDF: 1329.2/7

Right: -0.213+/-0.003 $\chi^2$/NDF: 27909.3/34

In: -0.290+/-0.003 $\chi^2$/NDF:12810.6/18

Out: -0.232+/-0.003 $\chi^2$/NDF:16943.1/23

All: -0.259+/-0.002 $\chi^2$/NDF: 29922.0/42




Right In: -4.139+/-0.054 $\chi^2$/NDF: 75240.1/15

Left Out: 45.384+/-0.116 $\chi^2$/NDF:13915.6/4

Right Out: -2.380+/-0.046 $\chi^2$/NDF: 80668.5/18

Left In: 43.659+/-0.130 $\chi^2$/NDF:7666.0/2

Left: 44.619+/-0.086 $\chi^2$/NDF: 21679.9/7

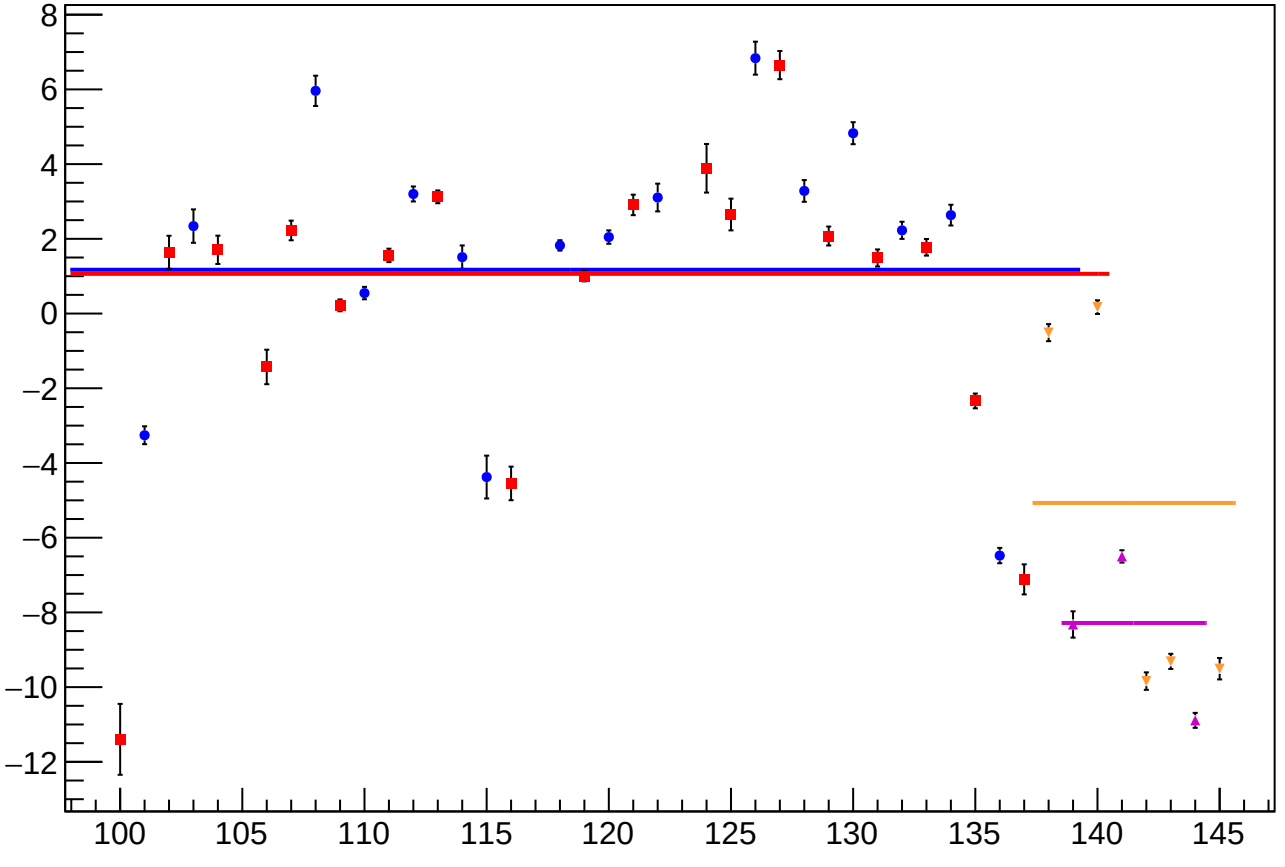
Right: -3.111+/-0.035 $\chi^2$/NDF: 156520.4/34

In: 2.994+/-0.050 $\chi^2$/NDF:198353.7/18

Out: 4.083+/-0.043 $\chi^2$/NDF:241475.7/23

All: 3.626+/-0.032 $\chi^2$/NDF: 440102.9/42

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.172+/-0.060 $\chi^2$/NDF: 2584.5/15

Left Out: -5.070+/-0.098 $\chi^2$/NDF:2312.2/4

Right Out: 1.063+/-0.057 $\chi^2$/NDF: 1596.5/18

Left In: -8.283+/-0.120 $\chi^2$/NDF:285.3/2

Left: -6.359+/-0.076 $\chi^2$/NDF: 3027.4/7

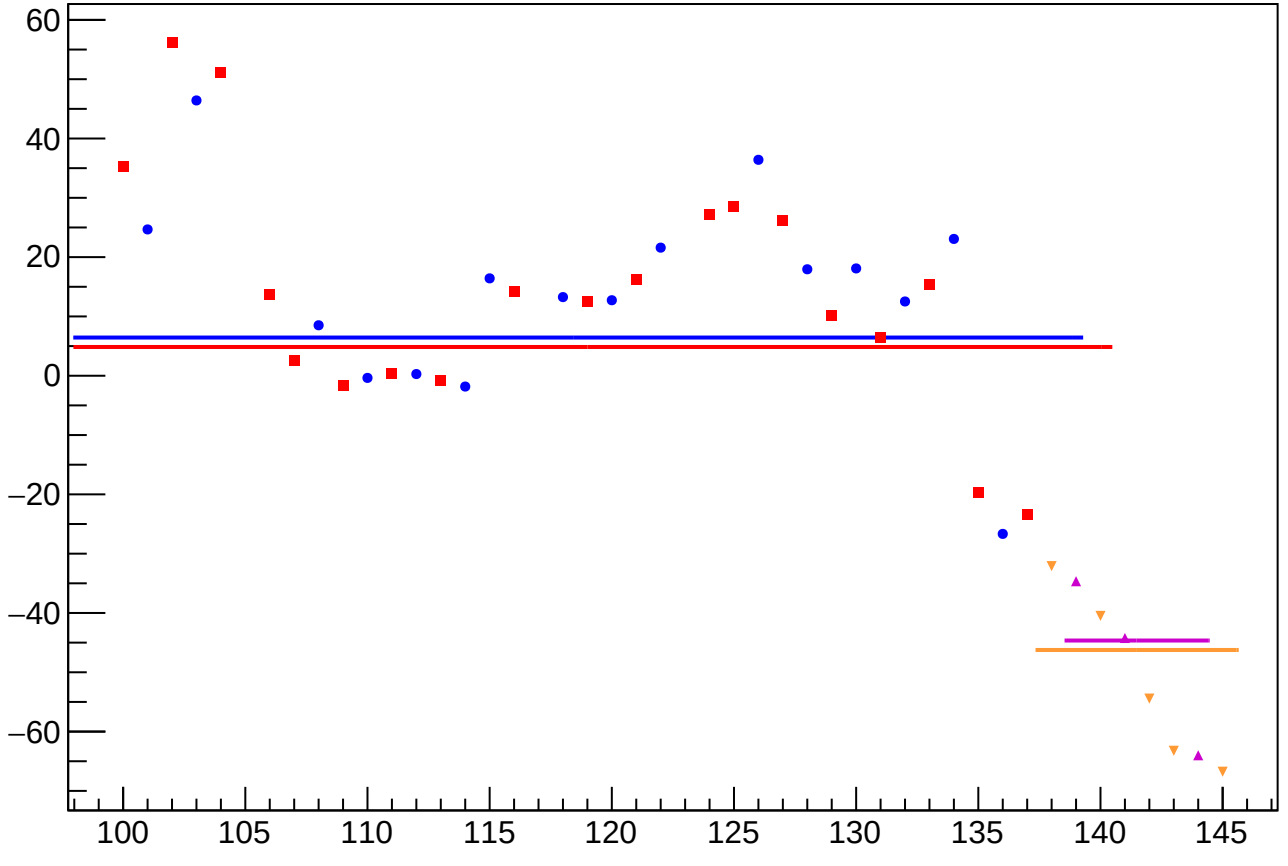
Right: 1.115+/-0.041 $\chi^2$/NDF: 4182.7/34

In: -0.727+/-0.054 $\chi^2$/NDF:7837.8/18

Out: -0.481+/-0.049 $\chi^2$/NDF:6829.4/23

All: -0.593+/-0.036 $\chi^2$/NDF: 14678.5/42

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 6.442+/-0.065 $\chi^2$/NDF: 70630.3/15

Left Out: -46.238+/-0.120 $\chi^2$/NDF:12539.1/4

Right Out: 4.848+/-0.059 $\chi^2$/NDF: 75159.9/18

Left In: -44.646+/-0.134 $\chi^2$/NDF:7184.4/2

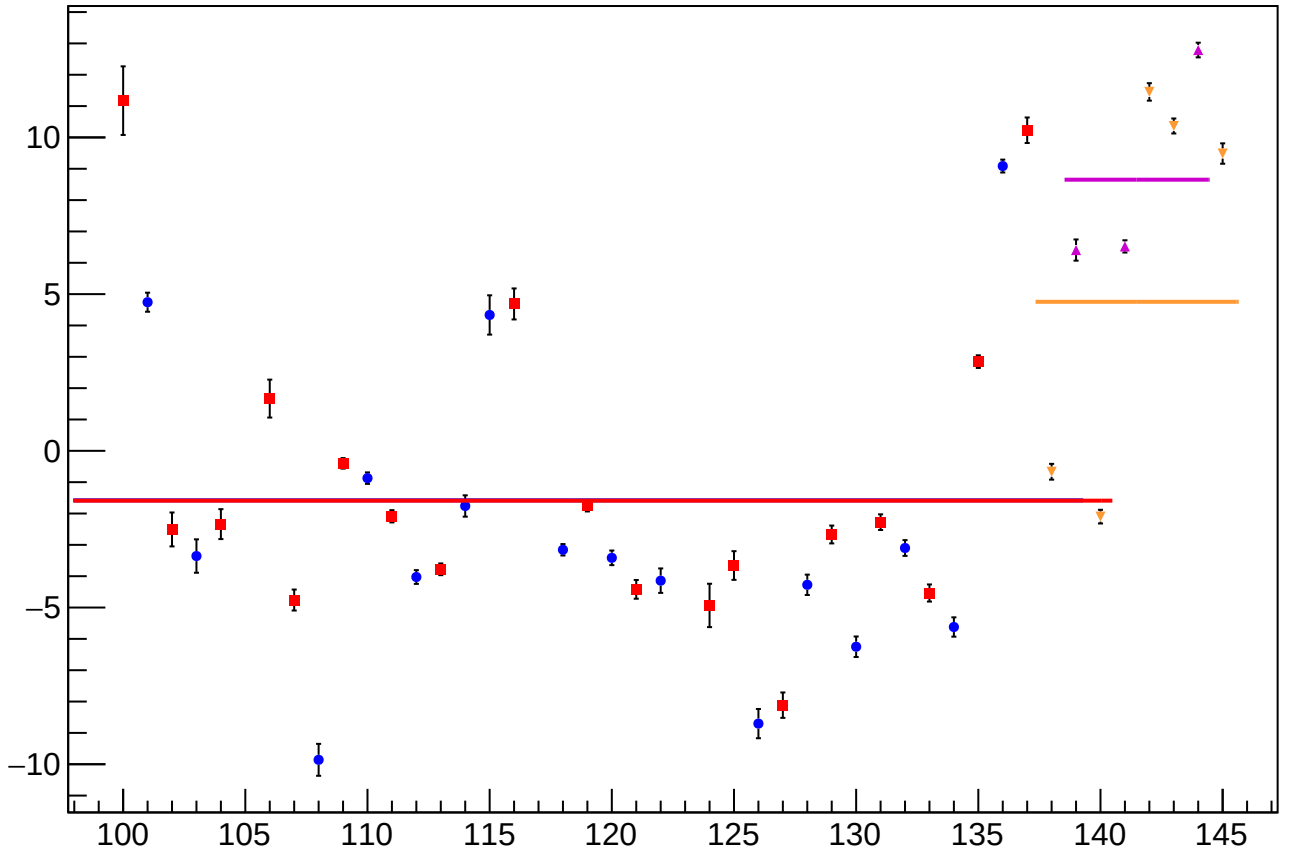
Left: -45.531+/-0.089 $\chi^2$/NDF: 19802.0/7

Right: 5.568+/-0.044 $\chi^2$/NDF: 146121.3/34

In: -3.240+/-0.058 $\chi^2$/NDF:195424.7/18

Out: -5.075+/-0.053 $\chi^2$/NDF:234217.1/23

All: -4.250+/-0.039 $\chi^2$/NDF: 430185.1/42




Right In: -1.580+/-0.069 $\chi^2$/NDF: 4524.3/15

Left Out: 4.755+/-0.114 $\chi^2$/NDF:2787.5/4

Right Out: -1.589+/-0.064 $\chi^2$/NDF: 2472.2/18

Left In: 8.652+/-0.137 $\chi^2$/NDF:473.0/2

Left: 6.349+/-0.088 $\chi^2$/NDF: 3735.6/7

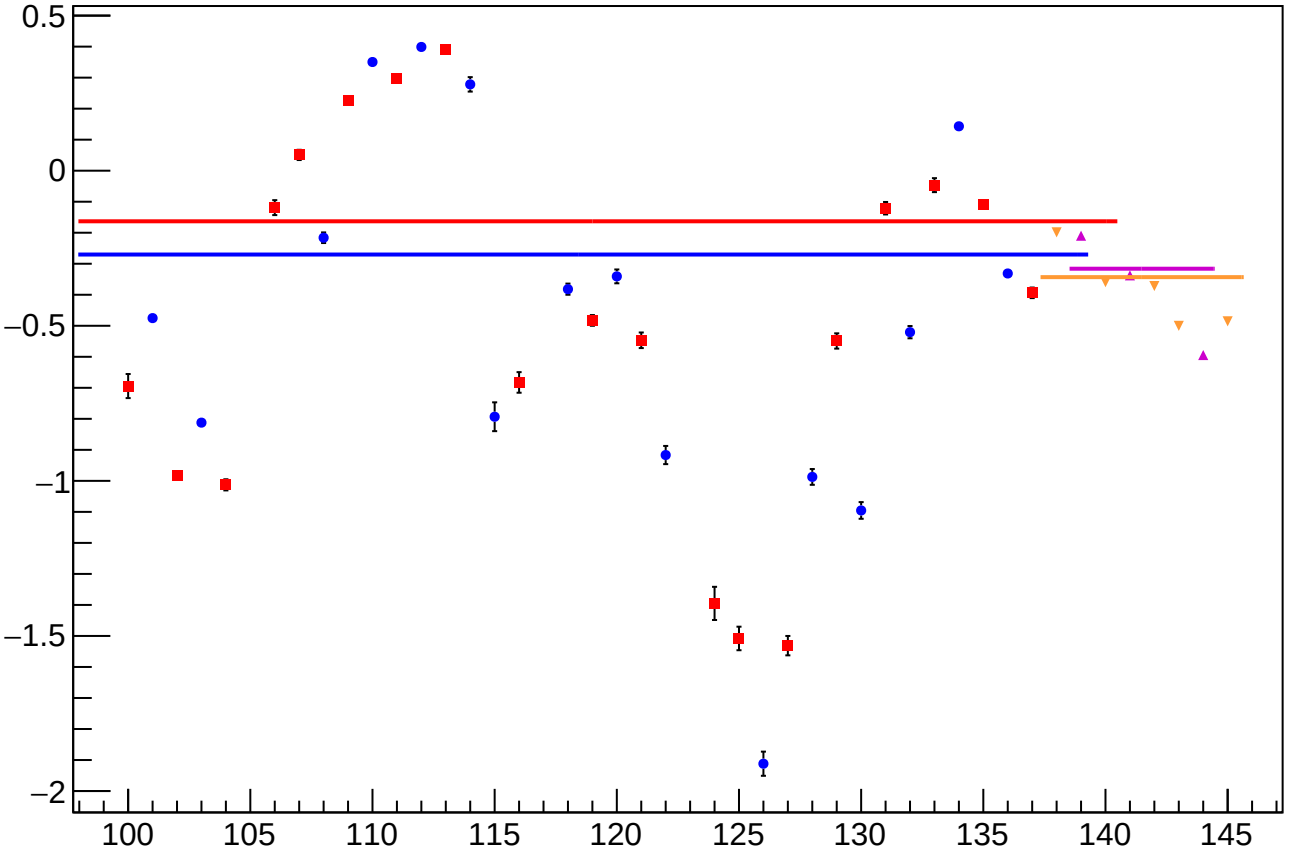
Right: -1.585+/-0.047 $\chi^2$/NDF: 6996.4/34

In: 0.491+/-0.062 $\chi^2$/NDF:9419.4/18

Out: -0.066+/-0.056 $\chi^2$/NDF:7601.0/23

All: 0.185+/-0.042 $\chi^2$/NDF: 17065.0/42

reg_asym_bcm_an_ds_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.270+/-0.004 $\chi^2$/NDF: 12036.3/15

Left Out: -0.343+/-0.005 $\chi^2$/NDF:603.7/4

Right Out: -0.163+/-0.004 $\chi^2$/NDF: 15510.0/18

Left In: -0.316+/-0.005 $\chi^2$/NDF:713.1/2

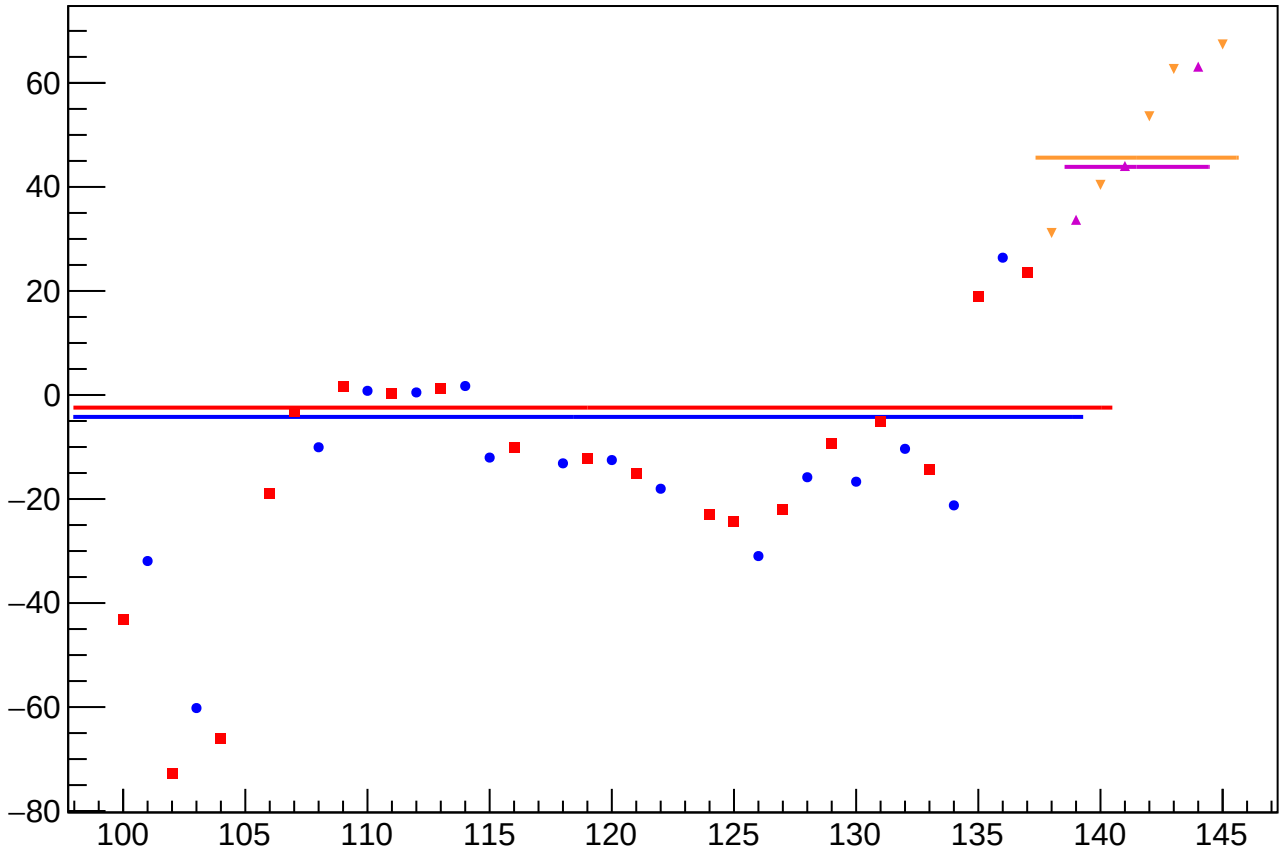
Left: -0.331+/-0.004 $\chi^2$/NDF: 1331.3/7

Right: -0.212+/-0.003 $\chi^2$/NDF: 27912.3/34

In: -0.288+/-0.003 $\chi^2$/NDF:12796.6/18

Out: -0.231+/-0.003 $\chi^2$/NDF:16969.1/23

All: -0.257+/-0.002 $\chi^2$/NDF: 29932.6/42




Right In: -4.214+/-0.055 $\chi^2$/NDF: 75215.4/15

Left Out: 45.632+/-0.116 $\chi^2$/NDF:13844.9/4

Right Out: -2.427+/-0.046 $\chi^2$/NDF: 80724.5/18

Left In: 43.860+/-0.130 $\chi^2$/NDF:7647.7/2

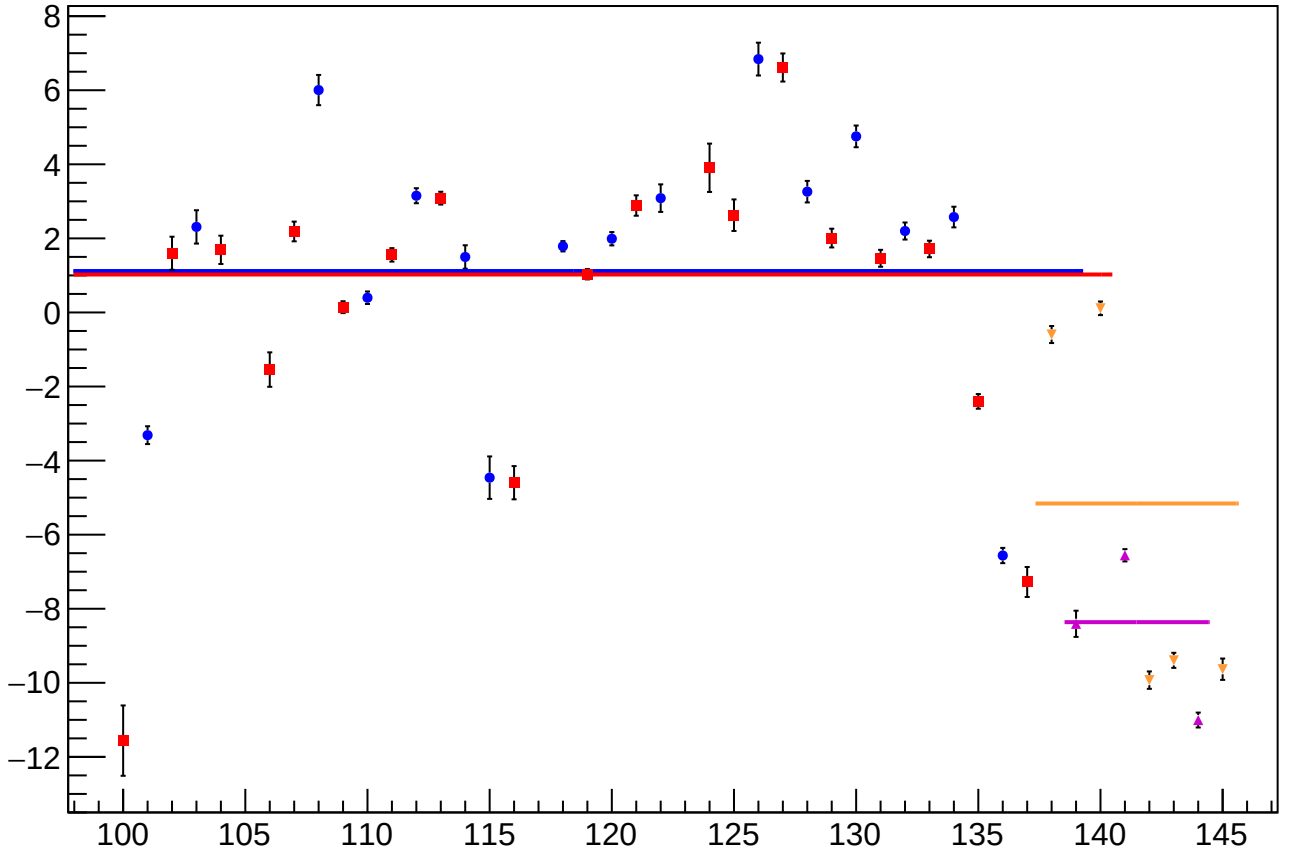
Left: 44.846+/-0.087 $\chi^2$/NDF: 21595.3/7

Right: -3.171+/-0.035 $\chi^2$/NDF: 156563.0/34

In: 2.988+/-0.050 $\chi^2$/NDF:198551.0/18

Out: 4.107+/-0.043 $\chi^2$/NDF:241814.3/23

All: 3.637+/-0.033 $\chi^2$/NDF: 440650.2/42




Right In: 1.118+/-0.060 $\chi^2$/NDF: 2591.7/15

Left Out: -5.158+/-0.099 $\chi^2$/NDF:2303.5/4

Right Out: 1.025+/-0.057 $\chi^2$/NDF: 1612.0/18

Left In: -8.362+/-0.120 $\chi^2$/NDF:290.7/2

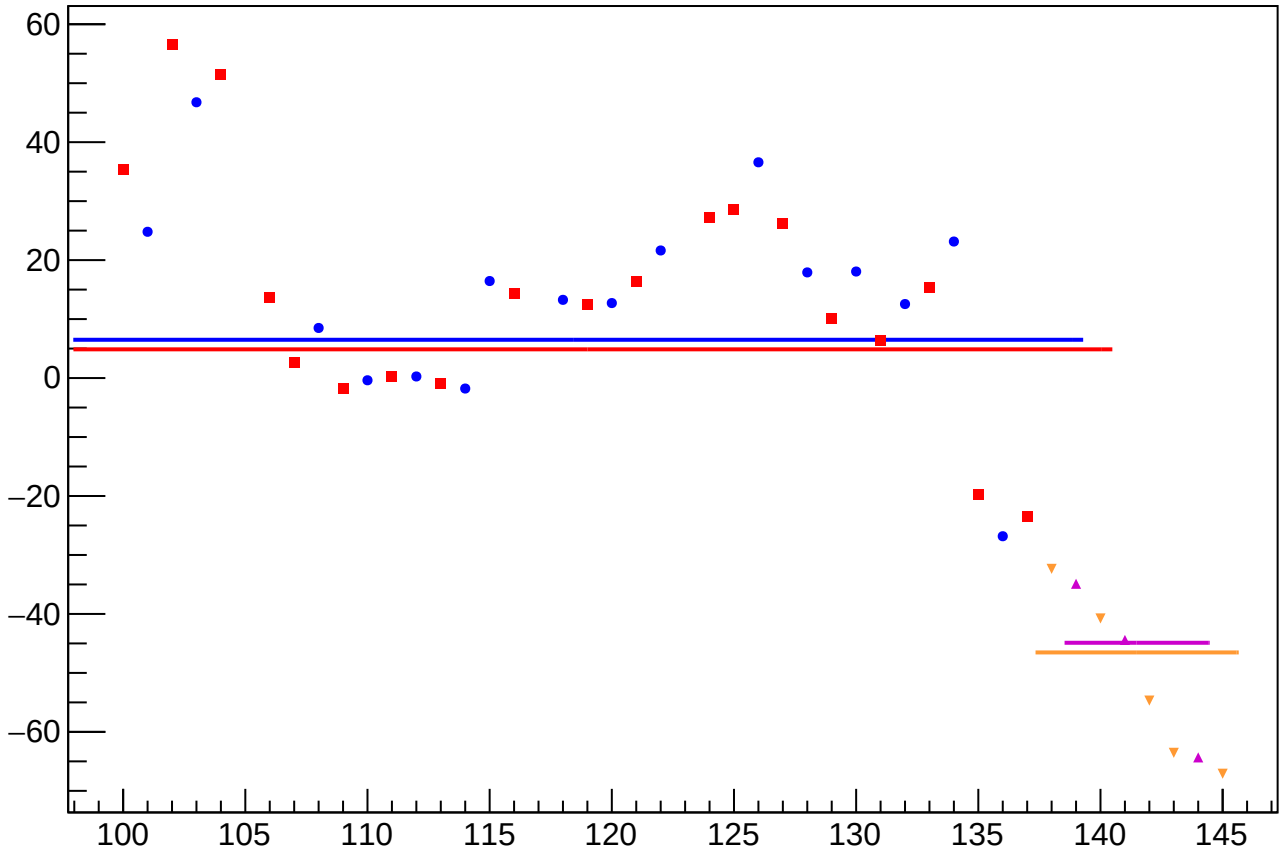
Left: -6.444+/-0.076 $\chi^2$/NDF: 3017.9/7

Right: 1.069+/-0.042 $\chi^2$/NDF: 4205.0/34

In: -0.788+/-0.054 $\chi^2$/NDF:7833.4/18

Out: -0.534+/-0.050 $\chi^2$/NDF:6857.0/23

All: -0.650+/-0.036 $\chi^2$/NDF: 14702.4/42




Right In: 6.492+/-0.065 $\chi^2$/NDF: 70623.9/15

Left Out: -46.527+/-0.120 $\chi^2$/NDF:12475.3/4

Right Out: 4.869+/-0.059 $\chi^2$/NDF: 75265.6/18

Left In: -44.890+/-0.135 $\chi^2$/NDF:7167.5/2

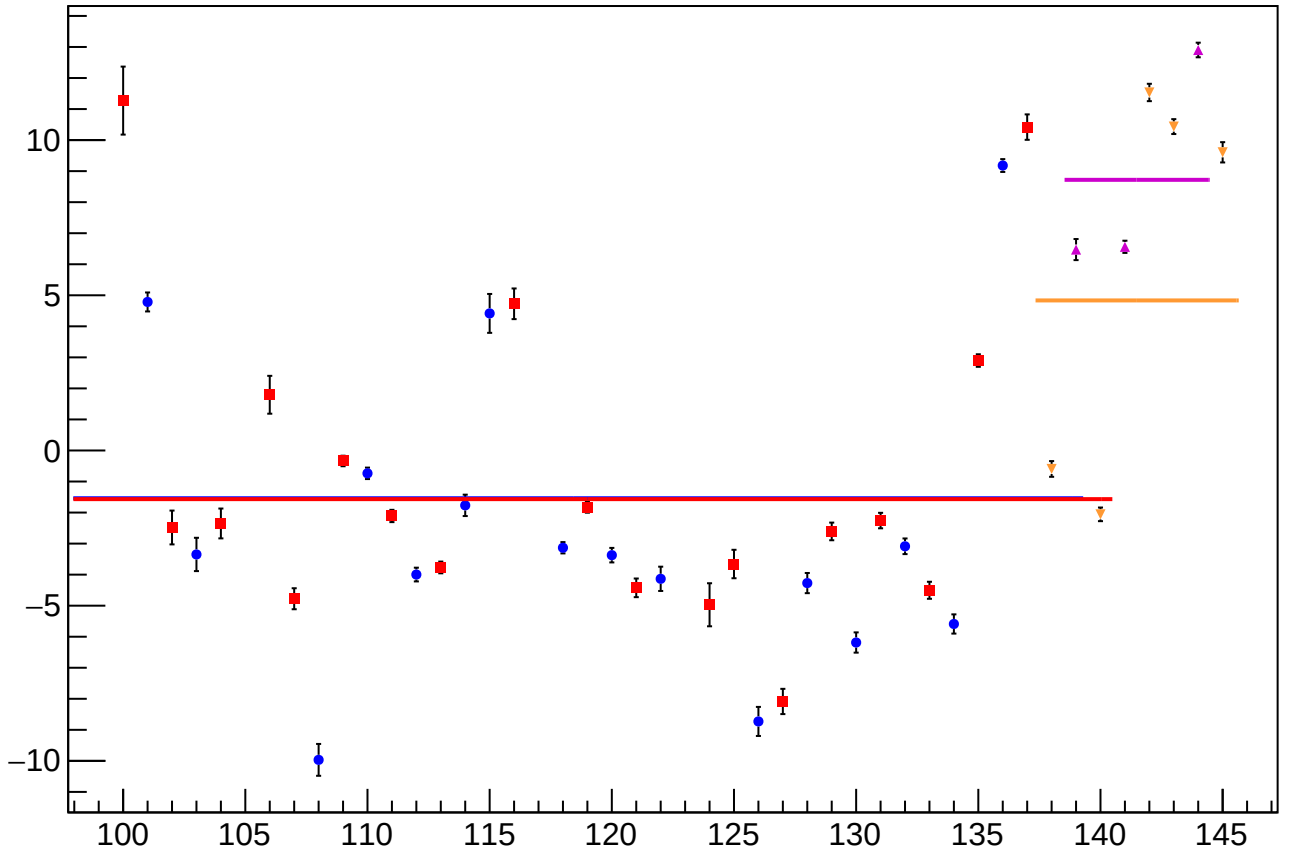
Left: -45.800+/-0.090 $\chi^2$/NDF: 19724.9/7

Right: 5.602+/-0.044 $\chi^2$/NDF: 146229.3/34

In: -3.267+/-0.059 $\chi^2$/NDF:195660.4/18

Out: -5.143+/-0.053 $\chi^2$/NDF:234586.6/23

All: -4.299+/-0.039 $\chi^2$/NDF: 430808.3/42




Right In: -1.540+/-0.070 $\chi^2$/NDF: 4535.9/15

Left Out: 4.834+/-0.115 $\chi^2$/NDF:2777.2/4

Right Out: -1.567+/-0.065 $\chi^2$/NDF: 2497.0/18

Left In: 8.720+/-0.138 $\chi^2$/NDF:479.0/2

Left: 6.424+/-0.088 $\chi^2$/NDF: 3724.7/7

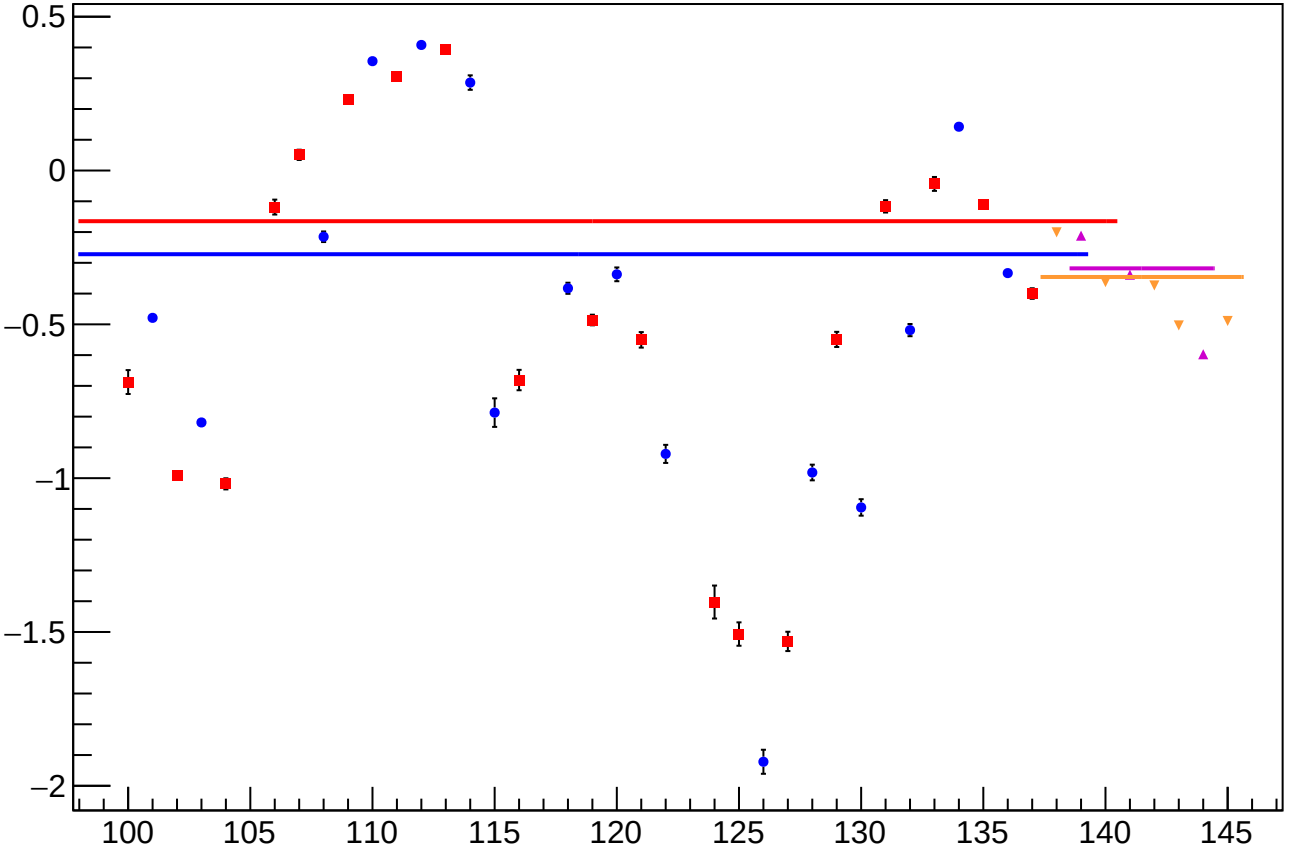
Right: -1.555+/-0.047 $\chi^2$/NDF: 7032.9/34

In: 0.540+/-0.062 $\chi^2$/NDF:9422.6/18

Out: -0.028+/-0.056 $\chi^2$/NDF:7635.6/23

All: 0.228+/-0.042 $\chi^2$/NDF: 17104.0/42

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: -0.346+/-0.005 $\chi^2$/NDF:602.9/4

Right Out: -0.165+/-0.004 $\chi^2$/NDF: 15490.5/18

Left In: -0.318+/-0.005 $\chi^2$/NDF:708.9/2

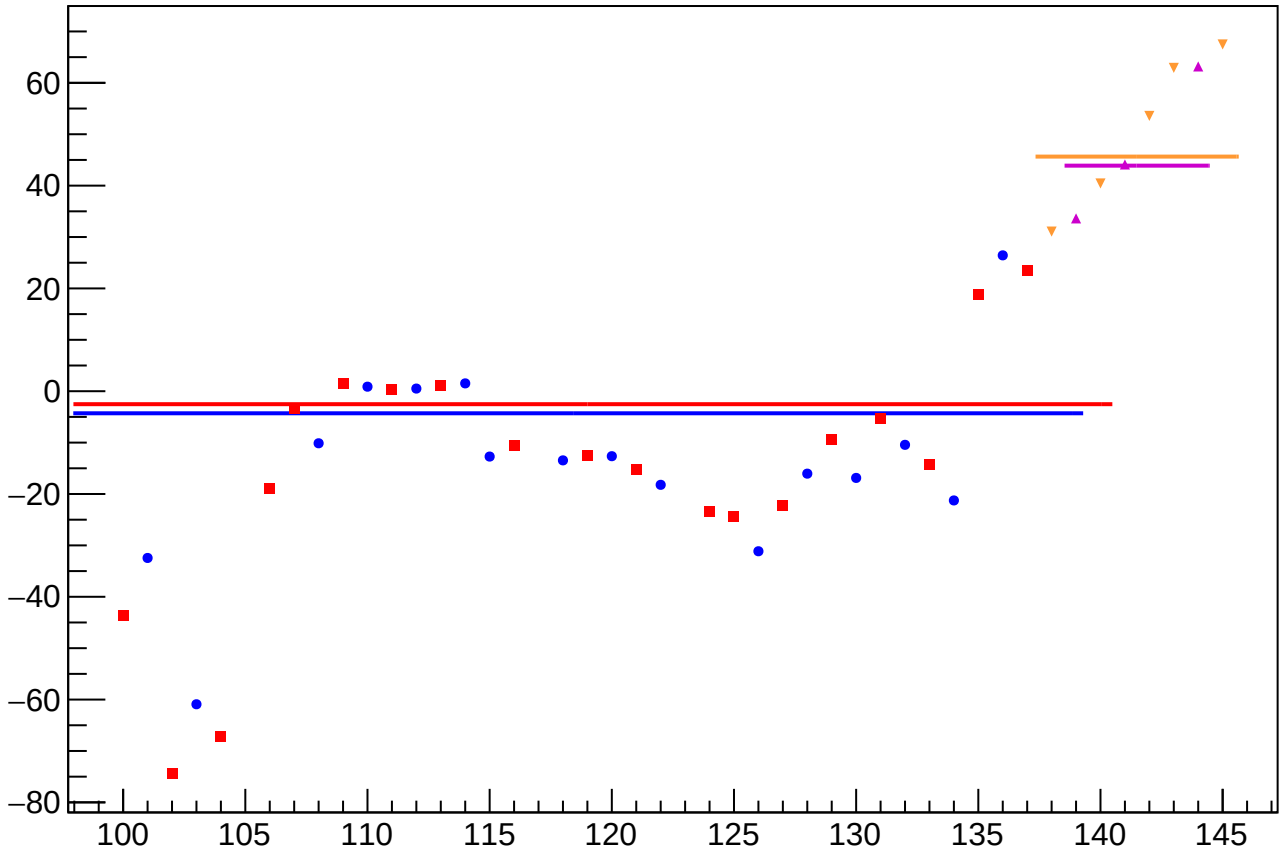
Left: -0.333+/-0.004 $\chi^2$/NDF: 1327.1/7

Right: -0.214+/-0.003 $\chi^2$/NDF: 27917.4/34

In: -0.290+/-0.003 $\chi^2$/NDF:12819.7/18

Out: -0.233+/-0.003 $\chi^2$/NDF:16952.7/23

All: -0.259+/-0.002 $\chi^2$/NDF: 29936.2/42




Right In: -4.296+/-0.056 $\chi^2$/NDF: 74218.3/15

Left Out: 45.651+/-0.117 $\chi^2$/NDF:13790.5/4

Right Out: -2.524+/-0.047 $\chi^2$/NDF: 79883.8/18

Left In: 43.888+/-0.132 $\chi^2$/NDF:7574.9/2

Left: 44.869+/-0.088 $\chi^2$/NDF: 21465.2/7

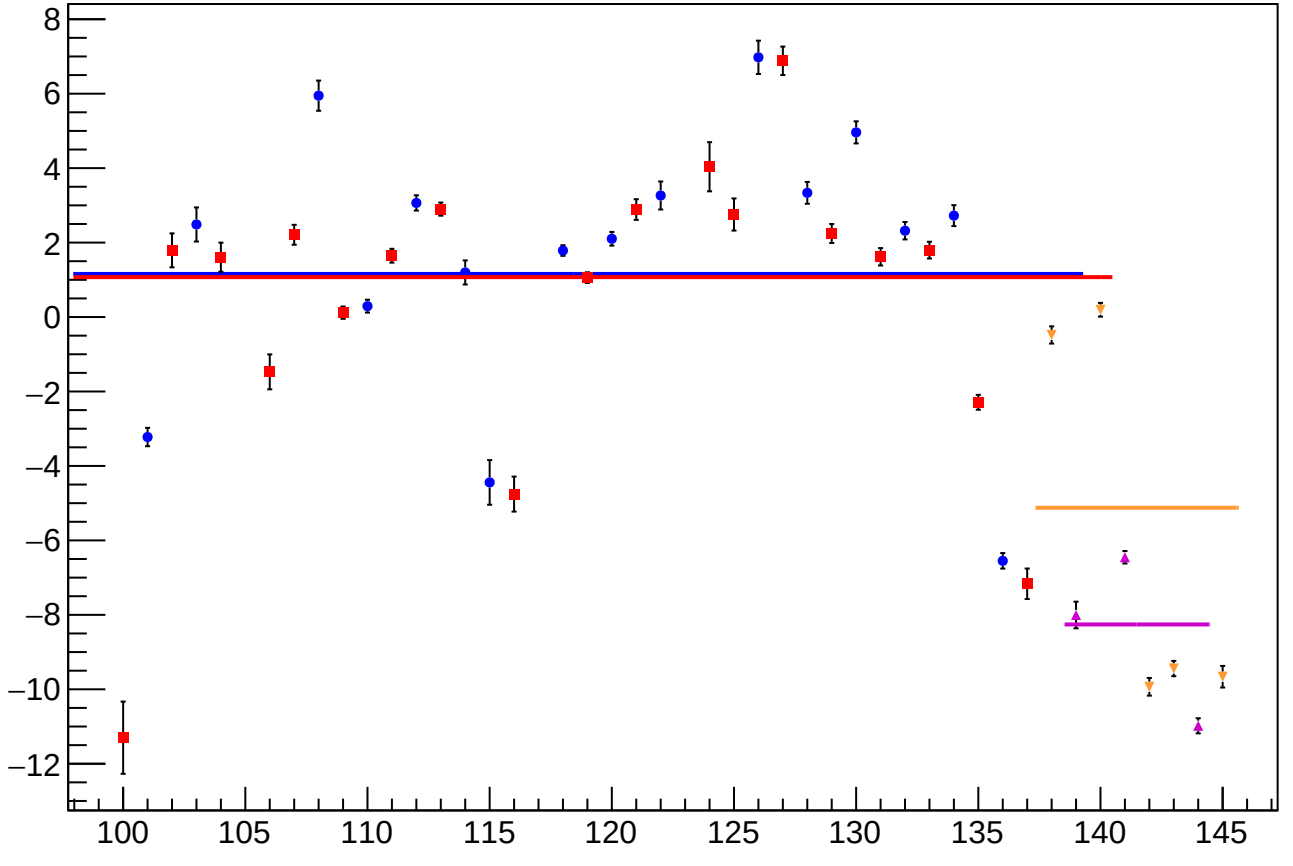
Right: -3.265+/-0.036 $\chi^2$/NDF: 154689.9/34

In: 3.026+/-0.051 $\chi^2$/NDF:195361.4/18

Out: 4.180+/-0.044 $\chi^2$/NDF:238479.0/23

All: 3.694+/-0.033 $\chi^2$/NDF: 434133.1/42

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: -5.123+/-0.099 $\chi^2$/NDF:2321.8/4

Right Out: 1.072+/-0.058 $\chi^2$/NDF: 1551.4/18

Left In: -8.258+/-0.122 $\chi^2$/NDF:295.7/2

Left: -6.379+/-0.077 $\chi^2$/NDF: 3015.4/7

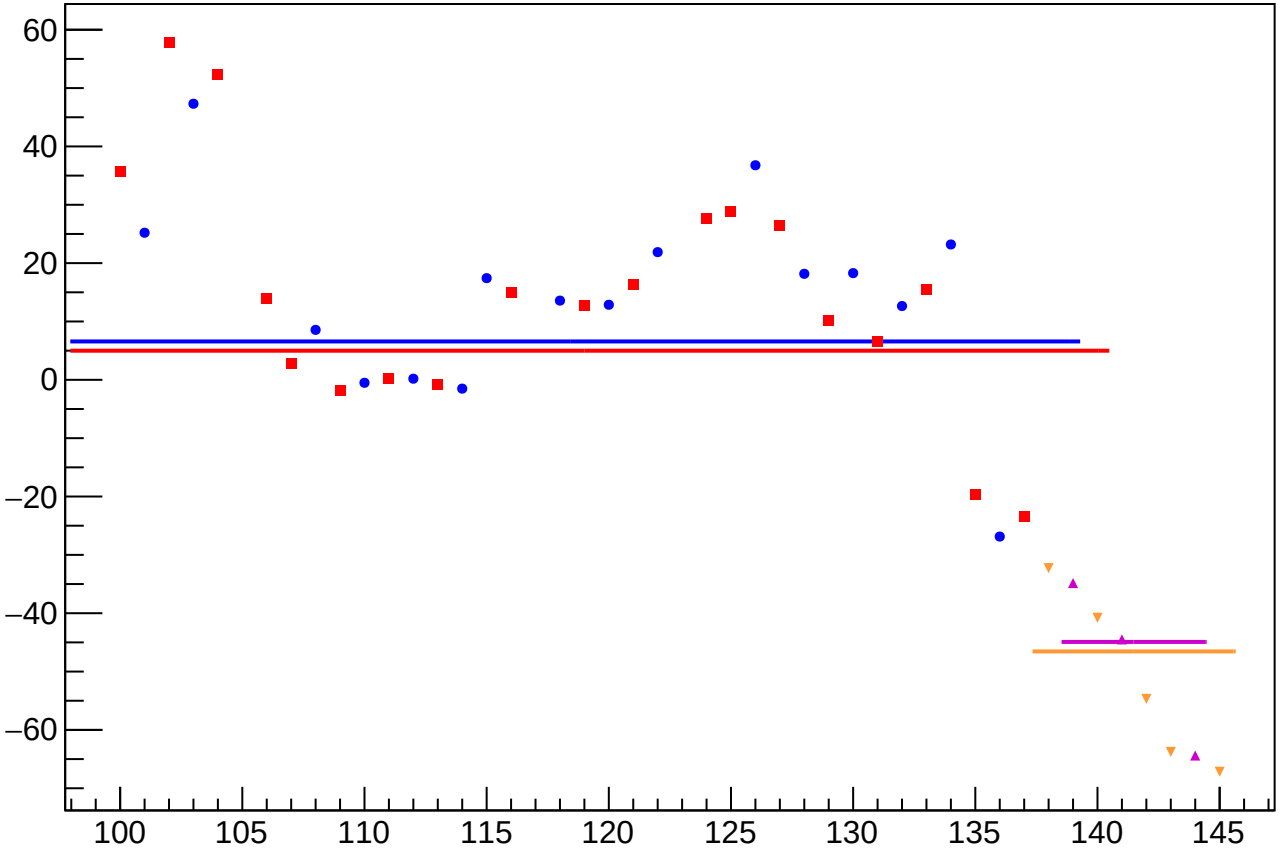
Right: 1.113+/-0.042 $\chi^2$/NDF: 4102.4/34

In: -0.758+/-0.055 $\chi^2$/NDF:7613.8/18

Out: -0.513+/-0.050 $\chi^2$/NDF:6758.4/23

All: -0.625+/-0.037 $\chi^2$/NDF: 14383.0/42

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 6.578+/-0.066 $\chi^2$/NDF: 69731.5/15

Left Out: -46.548+/-0.121 $\chi^2$/NDF:12419.7/4

Right Out: 4.992+/-0.060 $\chi^2$/NDF: 74461.3/18

Left In: -44.920+/-0.136 $\chi^2$/NDF:7093.7/2

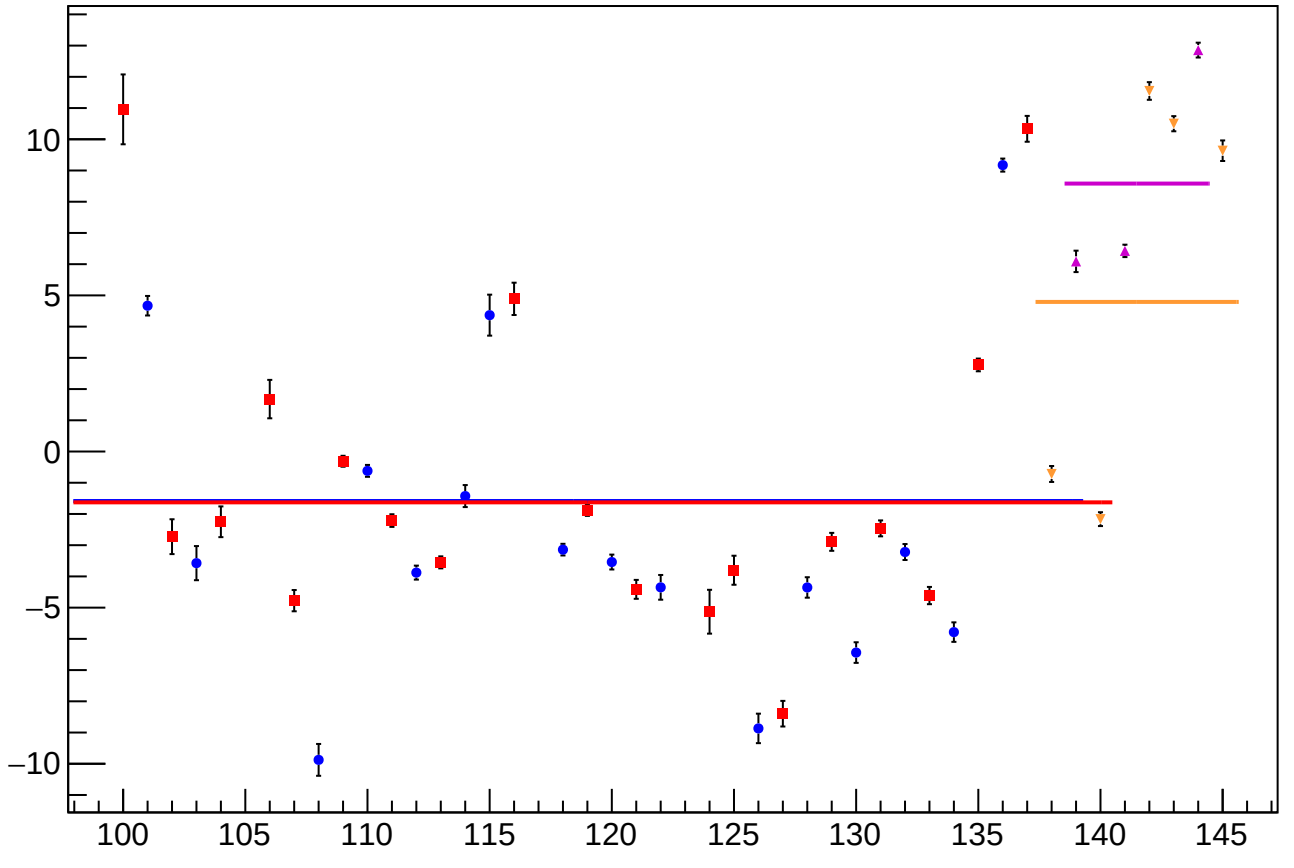
Left: -45.826+/-0.091 $\chi^2$/NDF: 19593.2/7

Right: 5.710+/-0.045 $\chi^2$/NDF: 144504.9/34

In: -3.323+/-0.060 $\chi^2$/NDF:192485.7/18

Out: -5.236+/-0.054 $\chi^2$/NDF:231289.3/23

All: -4.373+/-0.040 $\chi^2$/NDF: 424339.4/42




Right In: -1.586+/-0.071 $\chi^2$/NDF: 4472.6/15

Left Out: 4.791+/-0.116 $\chi^2$/NDF:2794.5/4

Right Out: -1.628+/-0.066 $\chi^2$/NDF: 2422.3/18

Left In: 8.581+/-0.139 $\chi^2$/NDF:493.2/2

Left: 6.339+/-0.089 $\chi^2$/NDF: 3724.7/7

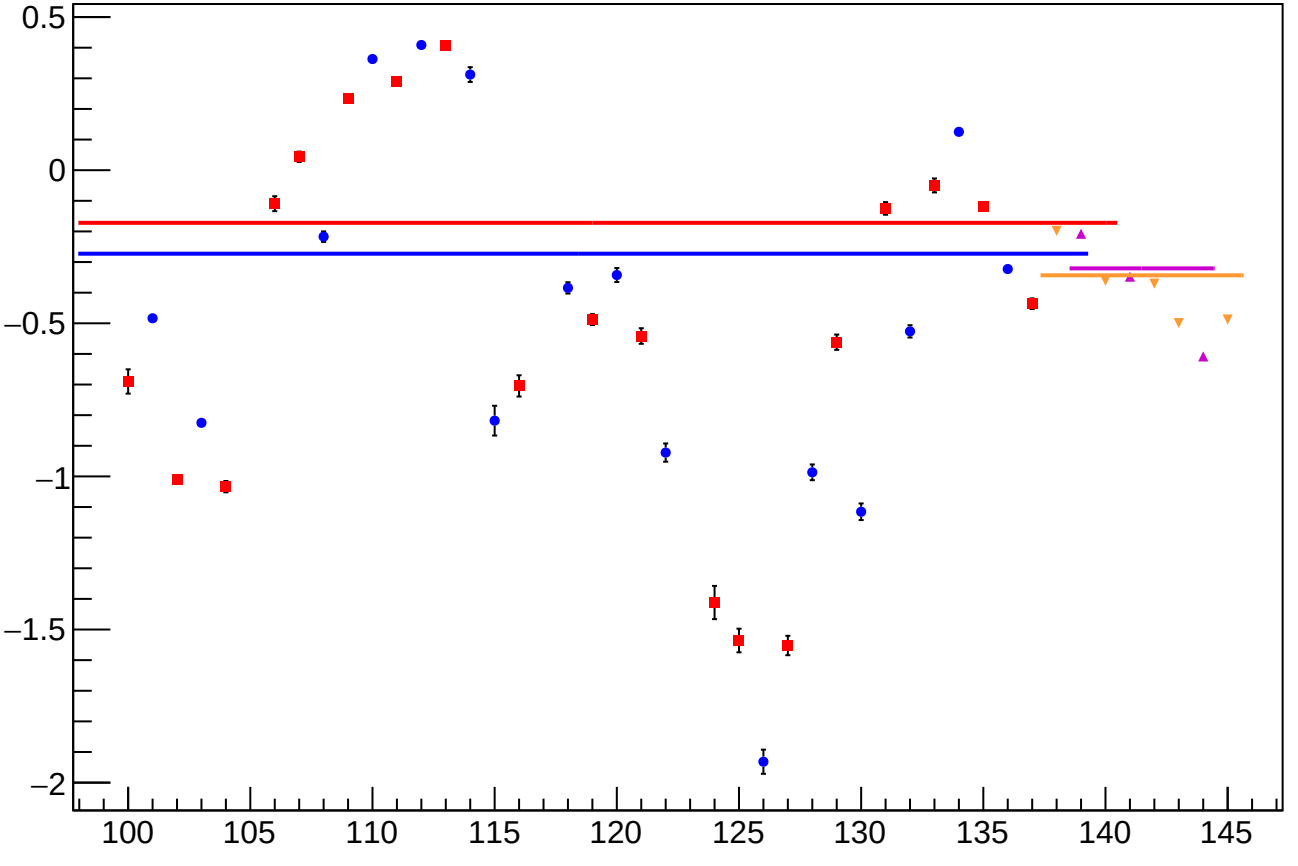
Right: -1.609+/-0.048 $\chi^2$/NDF: 6895.1/34

In: 0.498+/-0.063 $\chi^2$/NDF:9192.4/18

Out: -0.061+/-0.057 $\chi^2$/NDF:7537.0/23

All: 0.191+/-0.042 $\chi^2$/NDF: 16772.5/42

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.273+/-0.004 $\chi^2$/NDF: 11856.3/15

Left Out: -0.343+/-0.005 $\chi^2$/NDF:592.4/4

Right Out: -0.172+/-0.004 $\chi^2$/NDF: 15322.3/18

Left In: -0.321+/-0.005 $\chi^2$/NDF:756.4/2

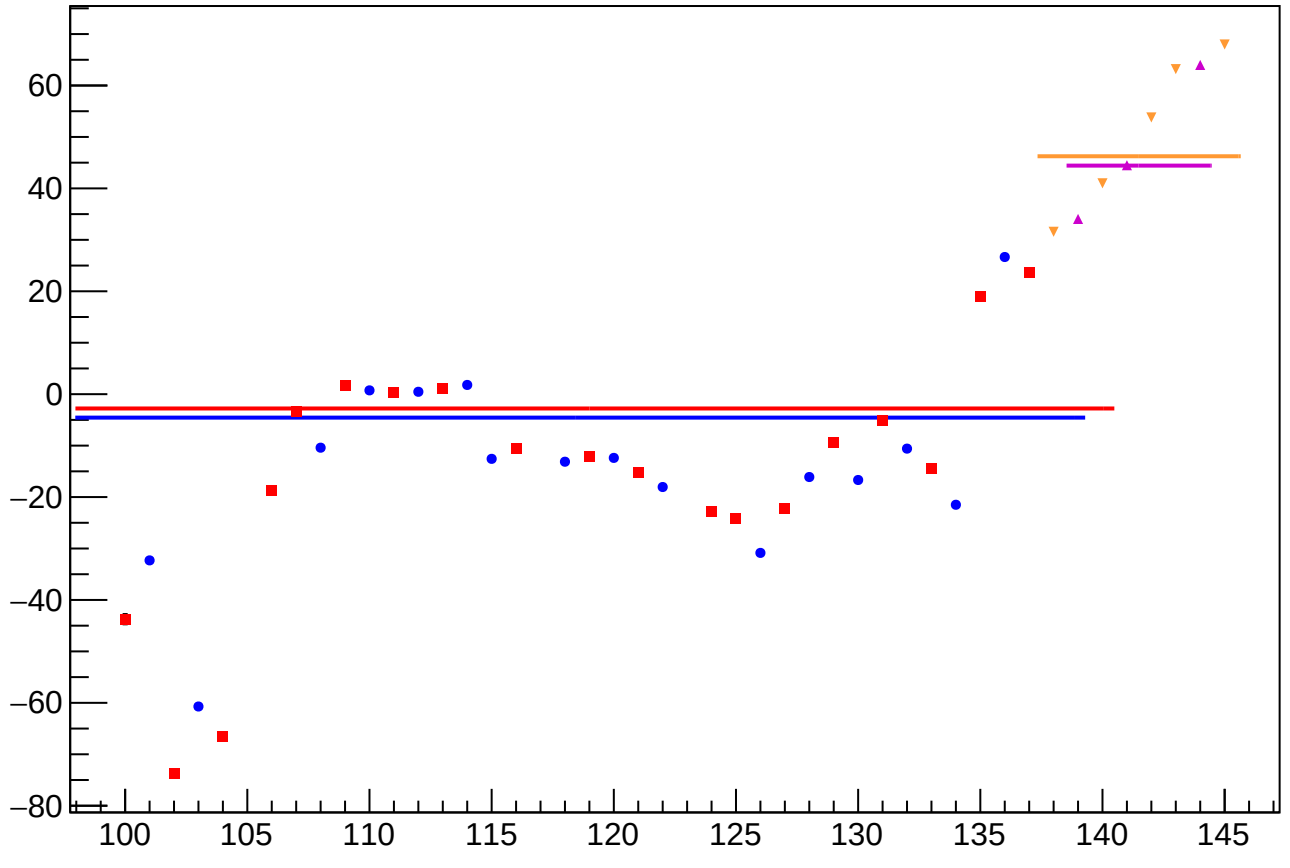
Left: -0.333+/-0.004 $\chi^2$/NDF: 1358.5/7

Right: -0.218+/-0.003 $\chi^2$/NDF: 27488.4/34

In: -0.291+/-0.003 $\chi^2$/NDF:12662.8/18

Out: -0.237+/-0.003 $\chi^2$/NDF:16663.5/23

All: -0.262+/-0.002 $\chi^2$/NDF: 29471.4/42




Right In: -4.557+/-0.057 $\chi^2$/NDF: 72635.2/15

Left Out: 46.247+/-0.120 $\chi^2$/NDF:13116.9/4

Right Out: -2.780+/-0.049 $\chi^2$/NDF: 77905.3/18

Left In: 44.429+/-0.134 $\chi^2$/NDF:7470.1/2

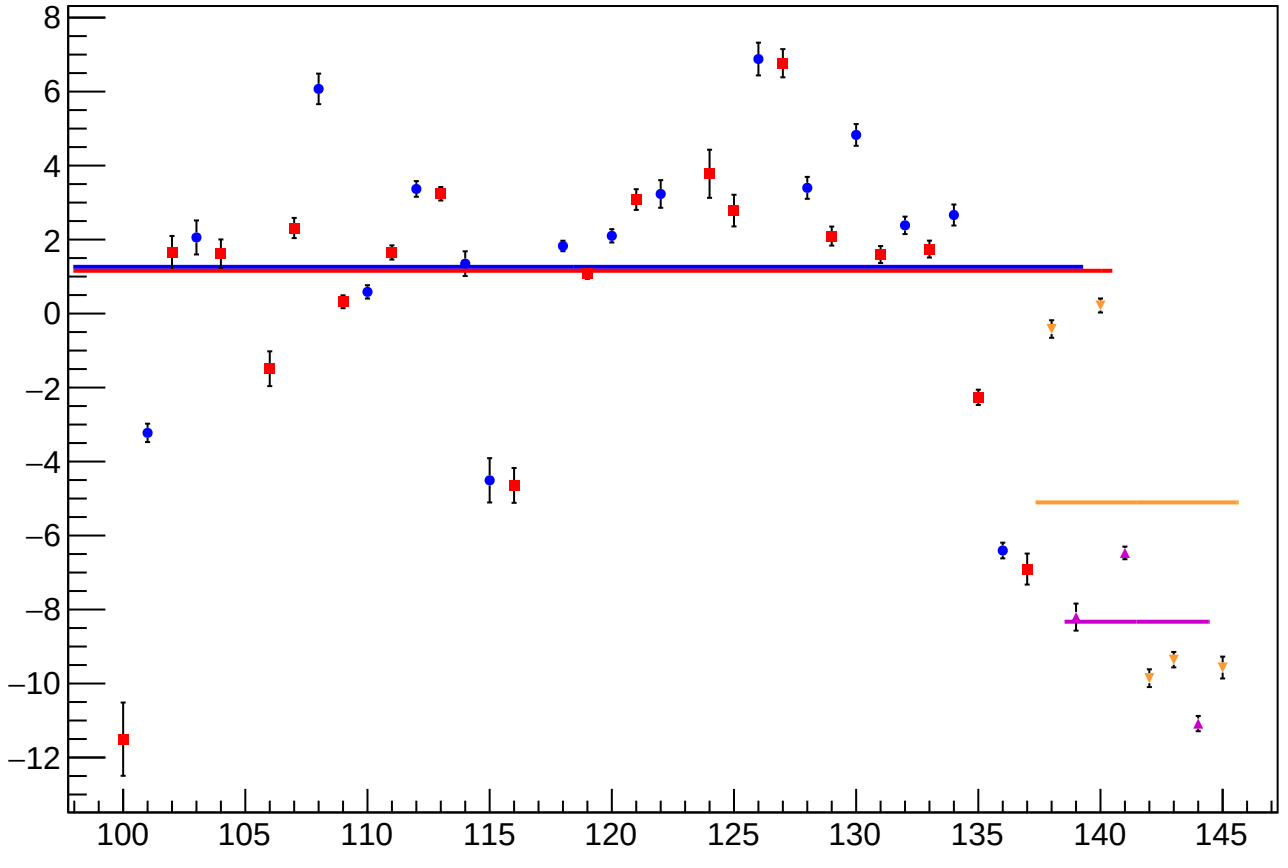
Left: 45.441+/-0.089 $\chi^2$/NDF: 20688.9/7

Right: -3.530+/-0.037 $\chi^2$/NDF: 151106.4/34

In: 2.875+/-0.052 $\chi^2$/NDF:192939.3/18

Out: 4.116+/-0.045 $\chi^2$/NDF:234679.2/23

All: 3.588+/-0.034 $\chi^2$/NDF: 427941.9/42




Right In: 1.263+/-0.062 $\chi^2$/NDF: 2443.8/15

Left Out: -5.105+/-0.101 $\chi^2$/NDF:2214.0/4

Right Out: 1.157+/-0.059 $\chi^2$/NDF: 1490.5/18

Left In: -8.329+/-0.124 $\chi^2$/NDF:295.6/2

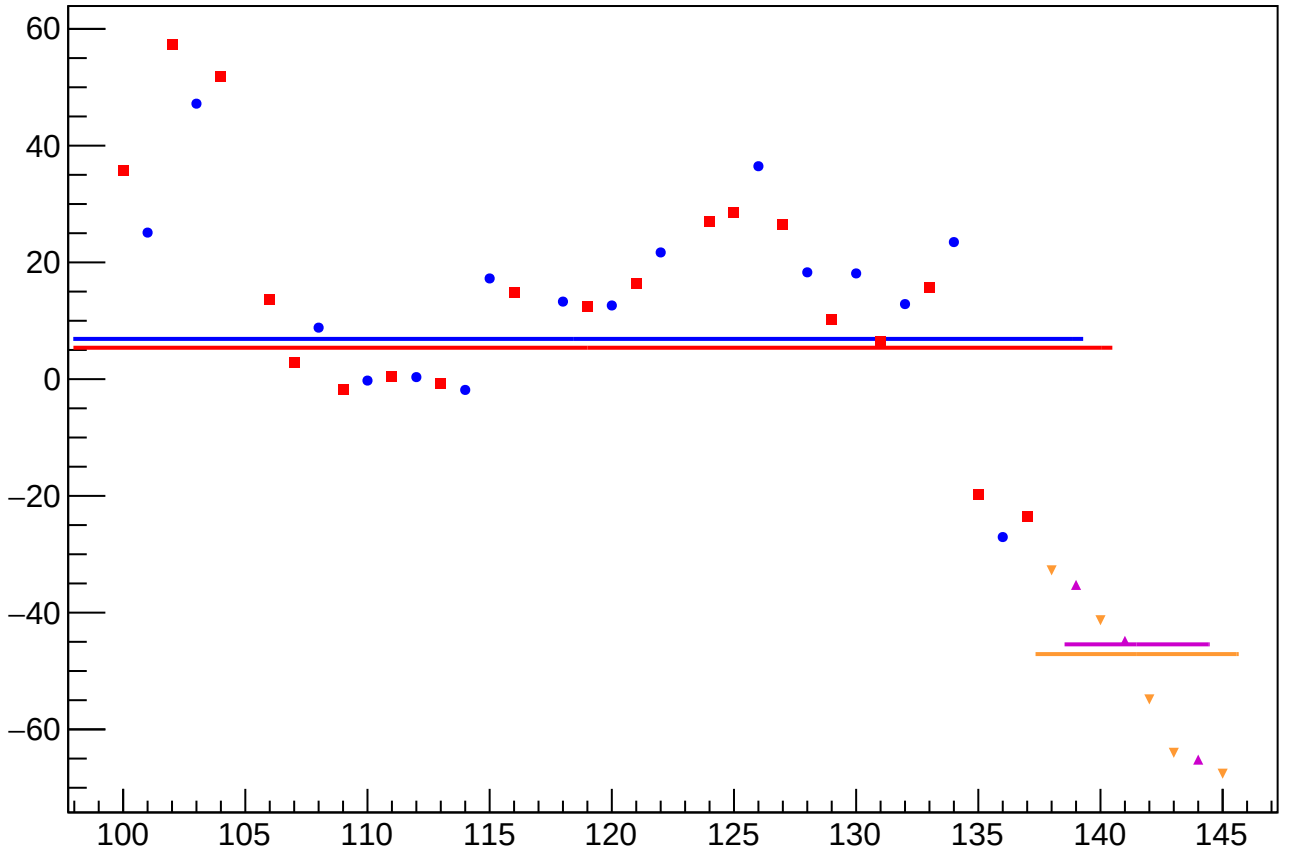
Left: -6.396+/-0.078 $\chi^2$/NDF: 2915.0/7

Right: 1.208+/-0.043 $\chi^2$/NDF: 3935.9/34

In: -0.657+/-0.055 $\chi^2$/NDF:7525.4/18

Out: -0.432+/-0.051 $\chi^2$/NDF:6554.2/23

All: -0.535+/-0.038 $\chi^2$/NDF: 14088.6/42




Right In: 6.895+/-0.067 $\chi^2$/NDF: 68047.4/15

Left Out: -47.100+/-0.124 $\chi^2$/NDF:11790.6/4

Right Out: 5.381+/-0.062 $\chi^2$/NDF: 72230.2/18

Left In: -45.433+/-0.139 $\chi^2$/NDF:7001.7/2

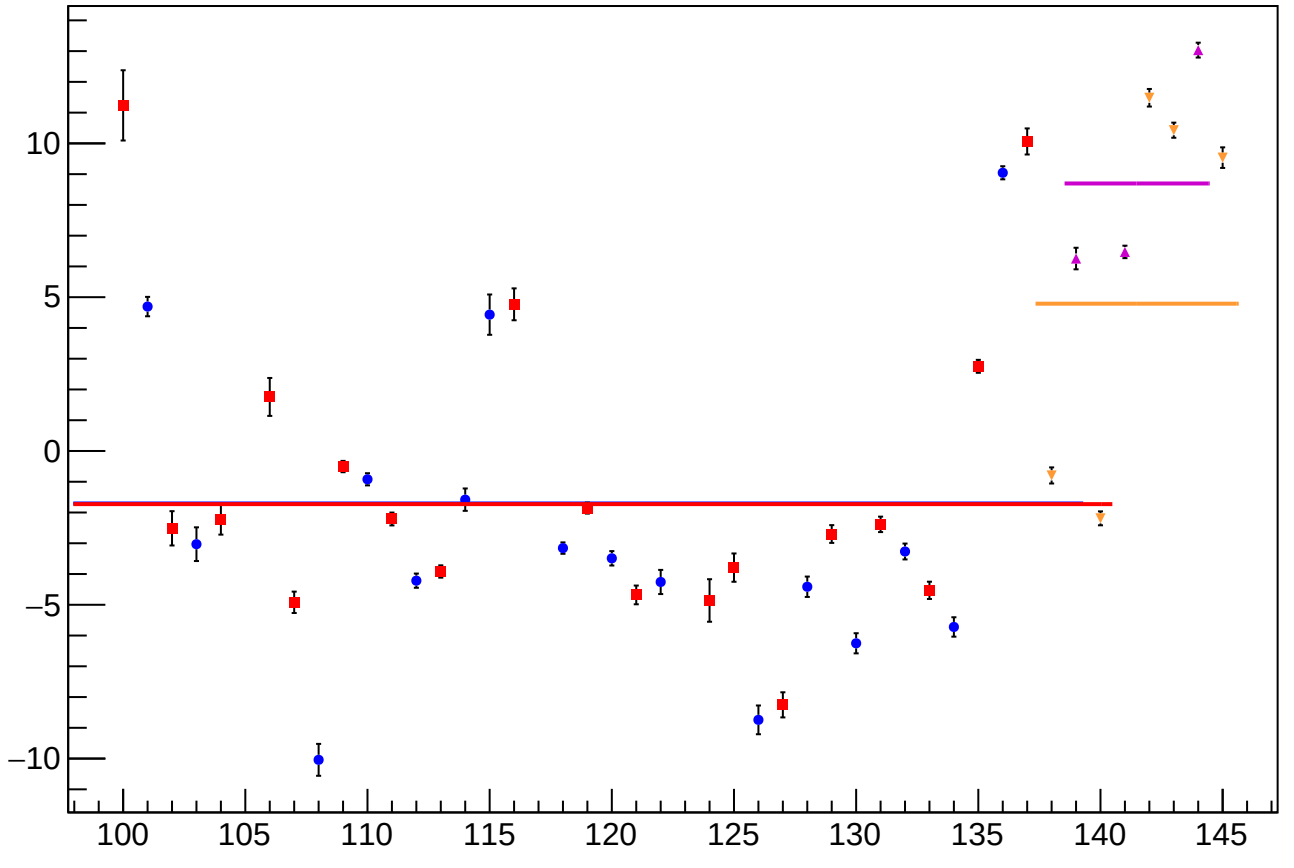
Left: -46.361+/-0.092 $\chi^2$/NDF: 18872.6/7

Right: 6.071+/-0.045 $\chi^2$/NDF: 140552.1/34

In: -3.077+/-0.061 $\chi^2$/NDF:190045.7/18

Out: -5.037+/-0.055 $\chi^2$/NDF:227710.2/23

All: -4.148+/-0.041 $\chi^2$/NDF: 418327.4/42




Right In: -1.708+/-0.072 $\chi^2$/NDF: 4289.8/15

Left Out: 4.789+/-0.118 $\chi^2$/NDF:2679.5/4

Right Out: -1.727+/-0.067 $\chi^2$/NDF: 2309.6/18

Left In: 8.697+/-0.142 $\chi^2$/NDF:489.7/2

Left: 6.384+/-0.091 $\chi^2$/NDF: 3616.9/7

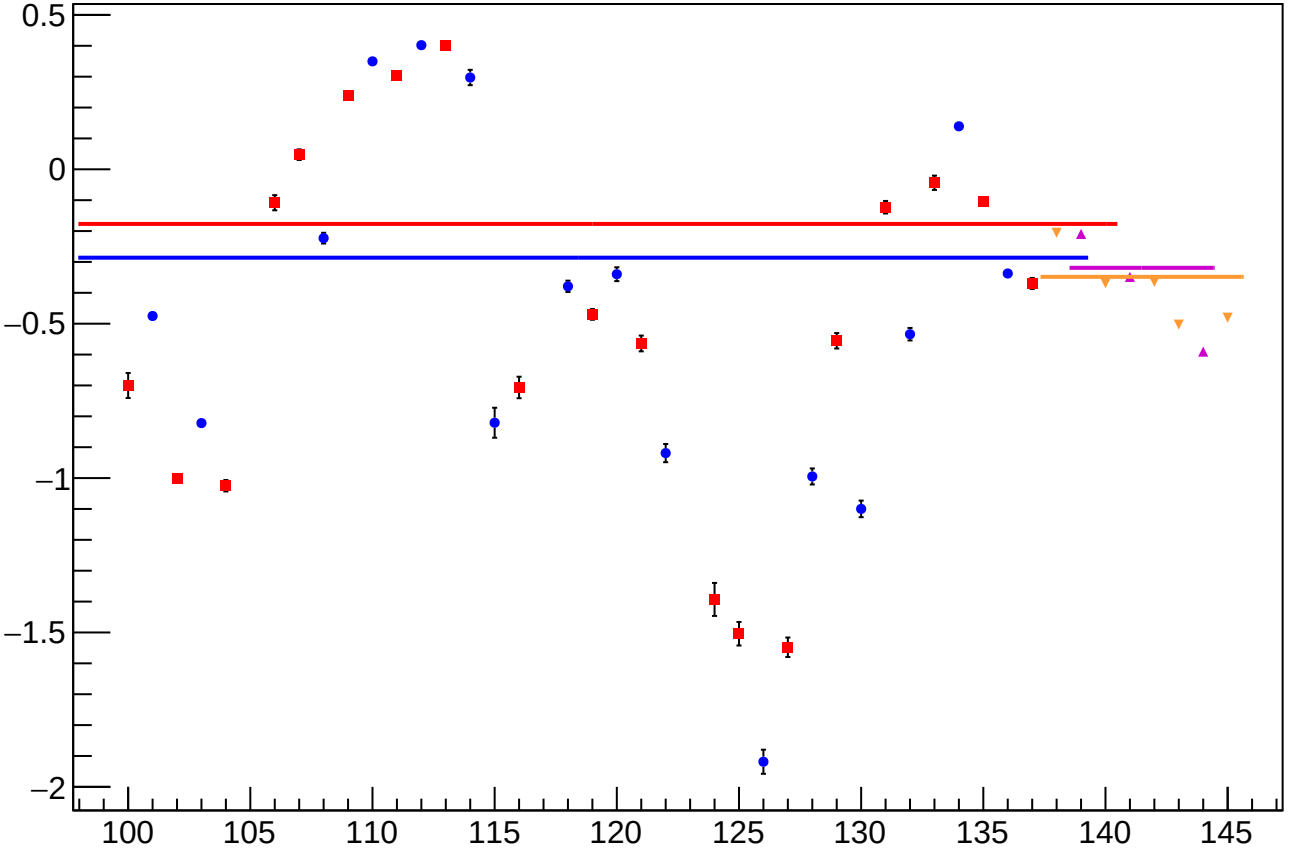
Right: -1.718+/-0.049 $\chi^2$/NDF: 6599.4/34

In: 0.397+/-0.064 $\chi^2$/NDF:9056.5/18

Out: -0.145+/-0.058 $\chi^2$/NDF:7296.5/23

All: 0.101+/-0.043 $\chi^2$/NDF: 16392.3/42

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.286+/-0.004 $\chi^2$/NDF: 11361.1/15

Left Out: -0.348+/-0.005 $\chi^2$/NDF:536.7/4

Right Out: -0.177+/-0.004 $\chi^2$/NDF: 14767.8/18

Left In: -0.319+/-0.005 $\chi^2$/NDF:663.0/2

Left: -0.335+/-0.004 $\chi^2$/NDF: 1215.4/7

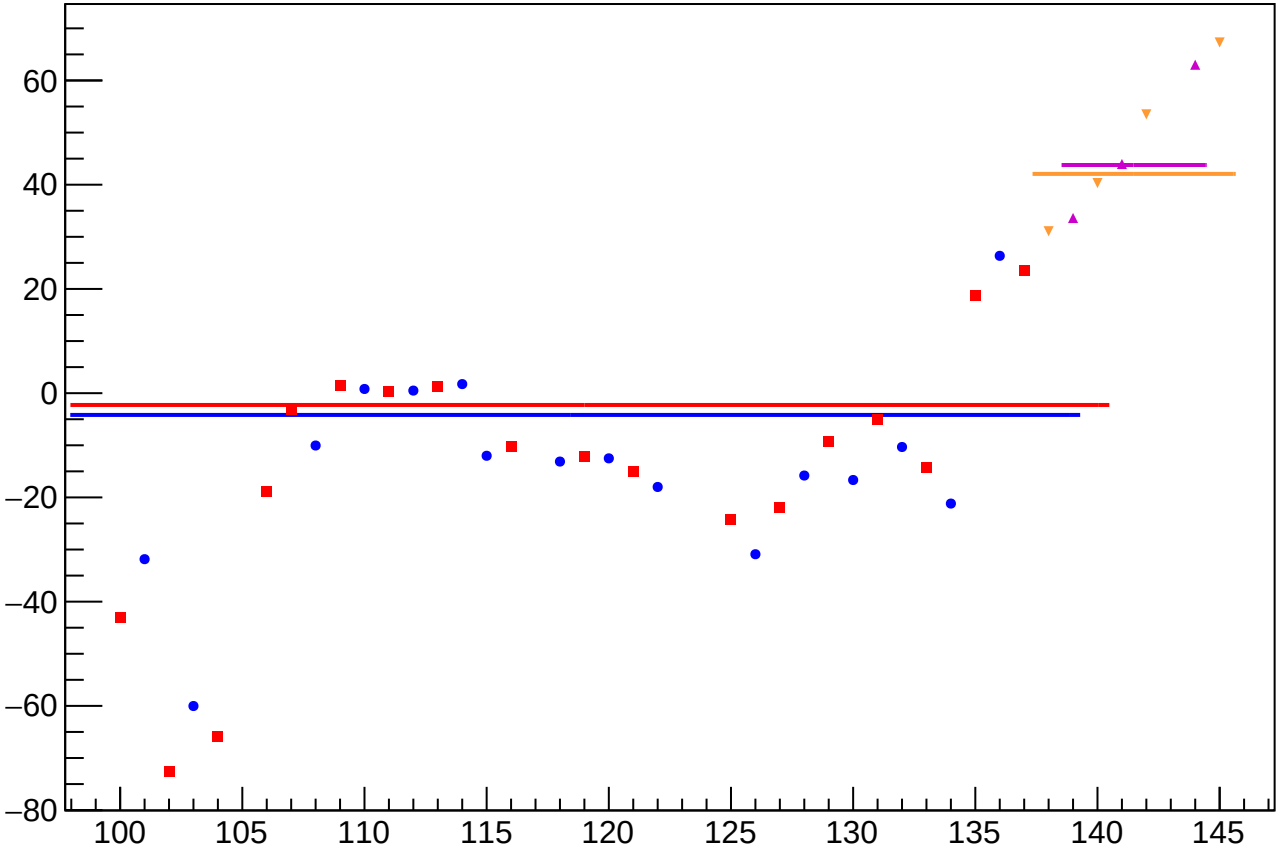
Right: -0.227+/-0.003 $\chi^2$/NDF: 26481.0/34

In: -0.299+/-0.003 $\chi^2$/NDF:12046.8/18

Out: -0.242+/-0.003 $\chi^2$/NDF:16022.6/23

All: -0.268+/-0.002 $\chi^2$/NDF: 28222.5/42

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: 42.074+/-0.127 $\chi^2$/NDF:9534.8/3

Right Out: -2.261+/-0.046 $\chi^2$/NDF: 79624.4/17

Left In: 43.780+/-0.130 $\chi^2$/NDF:7669.5/2

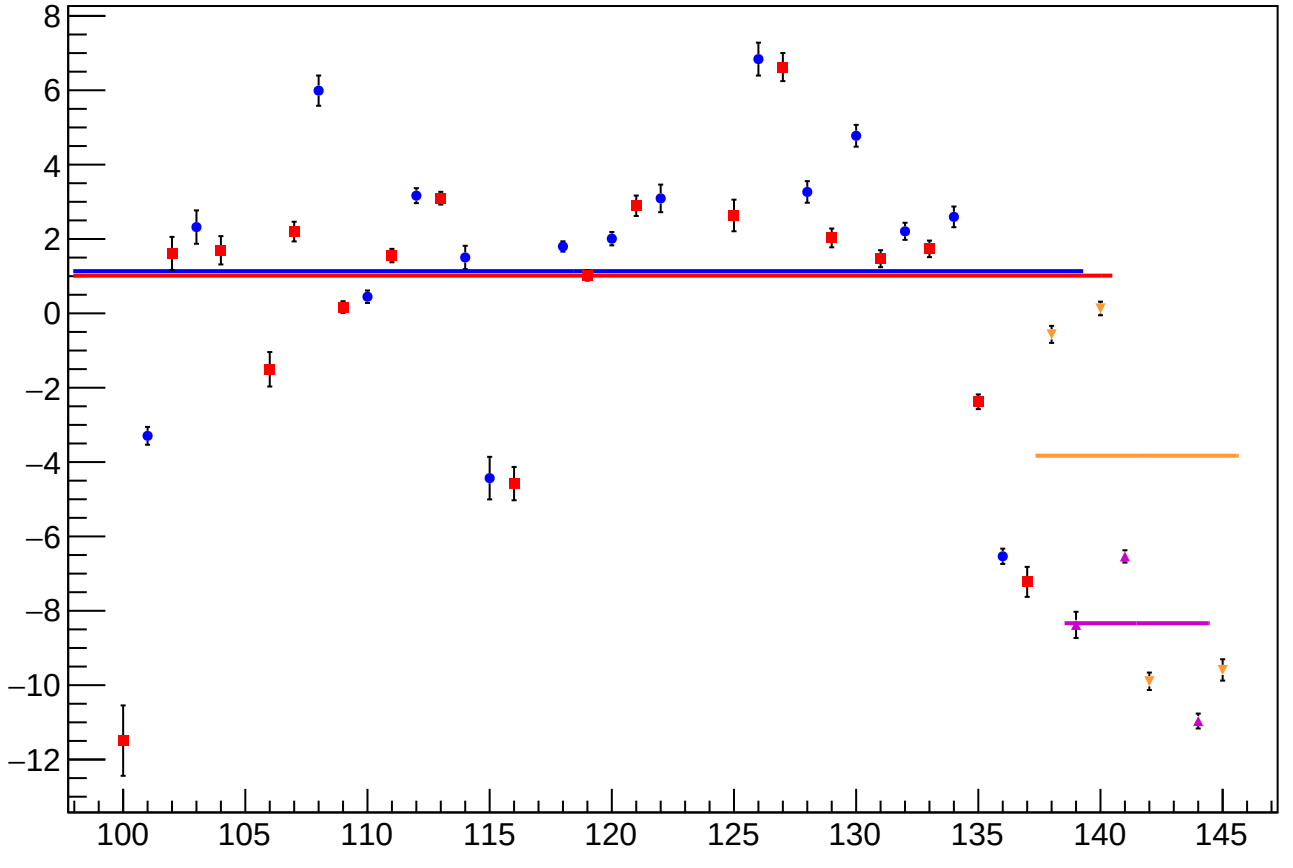
Left: 42.910+/-0.091 $\chi^2$/NDF: 17292.1/6

Right: -3.058+/-0.035 $\chi^2$/NDF: 155737.8/33

In: 2.987+/-0.050 $\chi^2$/NDF:198878.5/18

Out: 2.867+/-0.043 $\chi^2$/NDF:196416.6/21

All: 2.918+/-0.033 $\chi^2$/NDF: 395298.5/40




Right In: 1.135+/-0.060 $\chi^2$/NDF: 2595.7/15

Left Out: -3.829+/-0.112 $\chi^2$/NDF:1742.8/3

Right Out: 1.014+/-0.057 $\chi^2$/NDF: 1593.0/17

Left In: -8.334+/-0.120 $\chi^2$/NDF:289.4/2

Left: -5.932+/-0.082 $\chi^2$/NDF: 2782.3/6

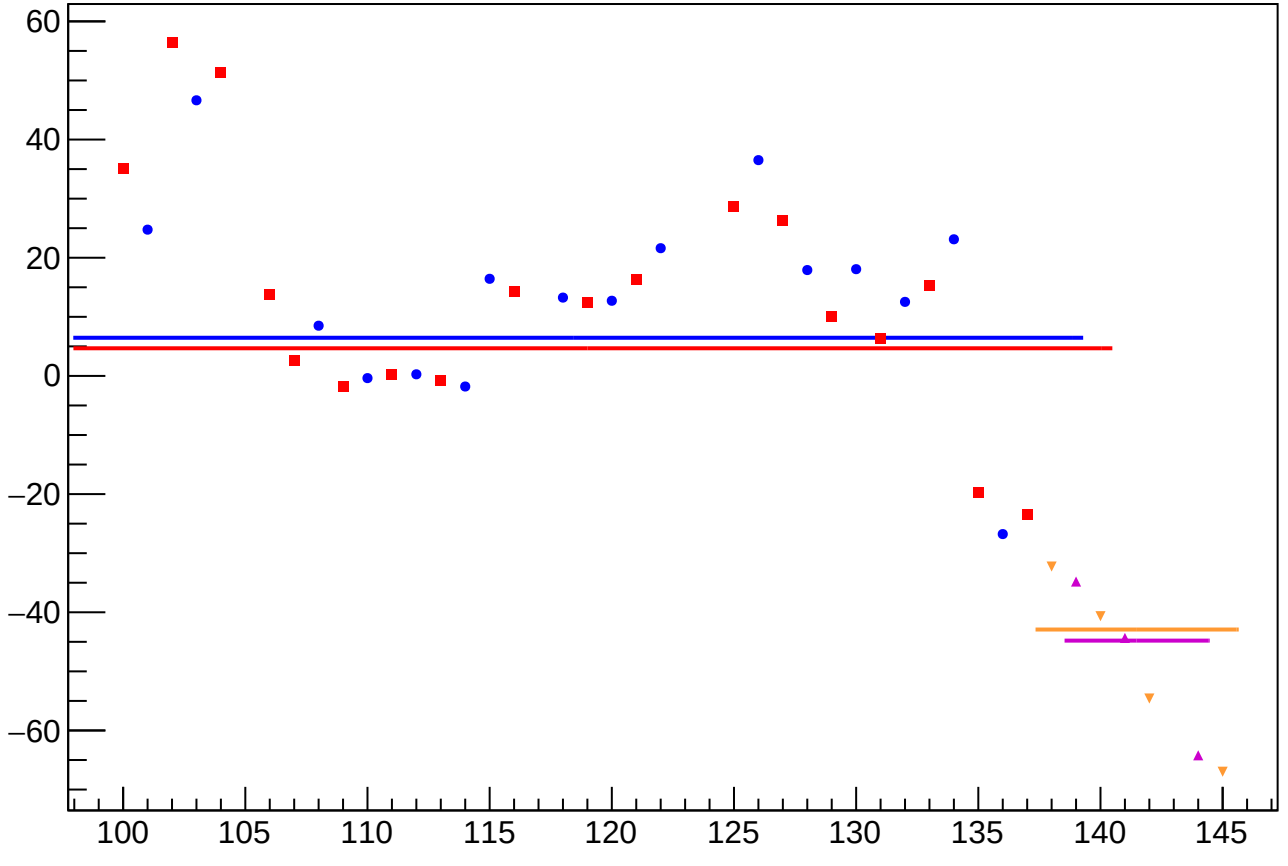
Right: 1.072+/-0.041 $\chi^2$/NDF: 4190.8/33

In: -0.765+/-0.054 $\chi^2$/NDF:7852.8/18

Out: 0.017+/-0.051 $\chi^2$/NDF:4811.3/21

All: -0.353+/-0.037 $\chi^2$/NDF: 12775.5/40

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: -42.918+/-0.132 $\chi^2$/NDF:8401.3/3

Right Out: 4.677+/-0.059 $\chi^2$/NDF: 74414.5/17

Left In: -44.795+/-0.134 $\chi^2$/NDF:7187.6/2

Left: -43.839+/-0.094 $\chi^2$/NDF: 15688.4/6

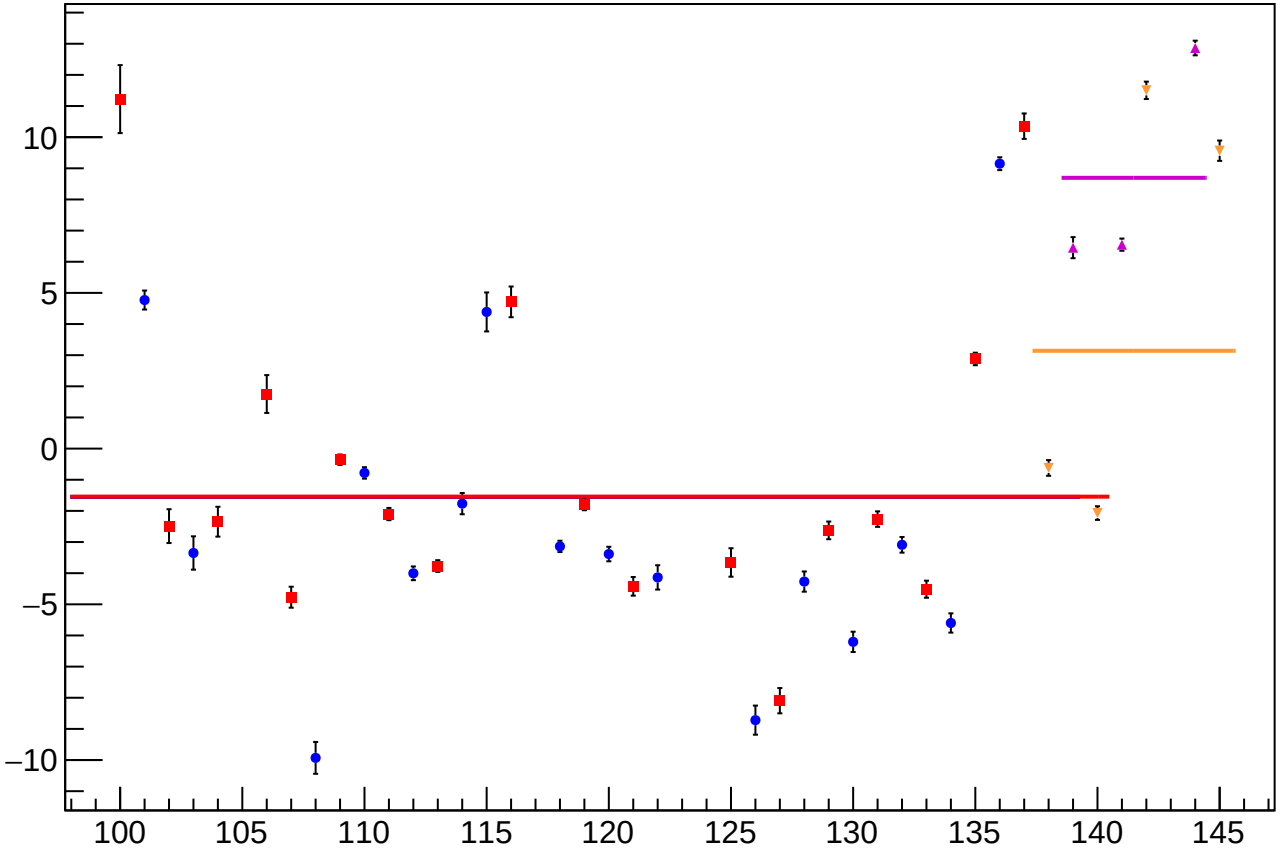
Right: 5.483+/-0.044 $\chi^2$/NDF: 145618.4/33

In: -3.256+/-0.058 $\chi^2$/NDF:195969.6/18

Out: -3.294+/-0.054 $\chi^2$/NDF:191476.4/21

All: -3.277+/-0.040 $\chi^2$/NDF: 387446.2/40

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: 3.141+/-0.130 $\chi^2$/NDF:2075.0/3

Right Out: -1.543+/-0.065 $\chi^2$/NDF: 2473.0/17

Left In: 8.695+/-0.138 $\chi^2$/NDF:477.8/2

Left: 5.768+/-0.095 $\chi^2$/NDF: 3411.2/6

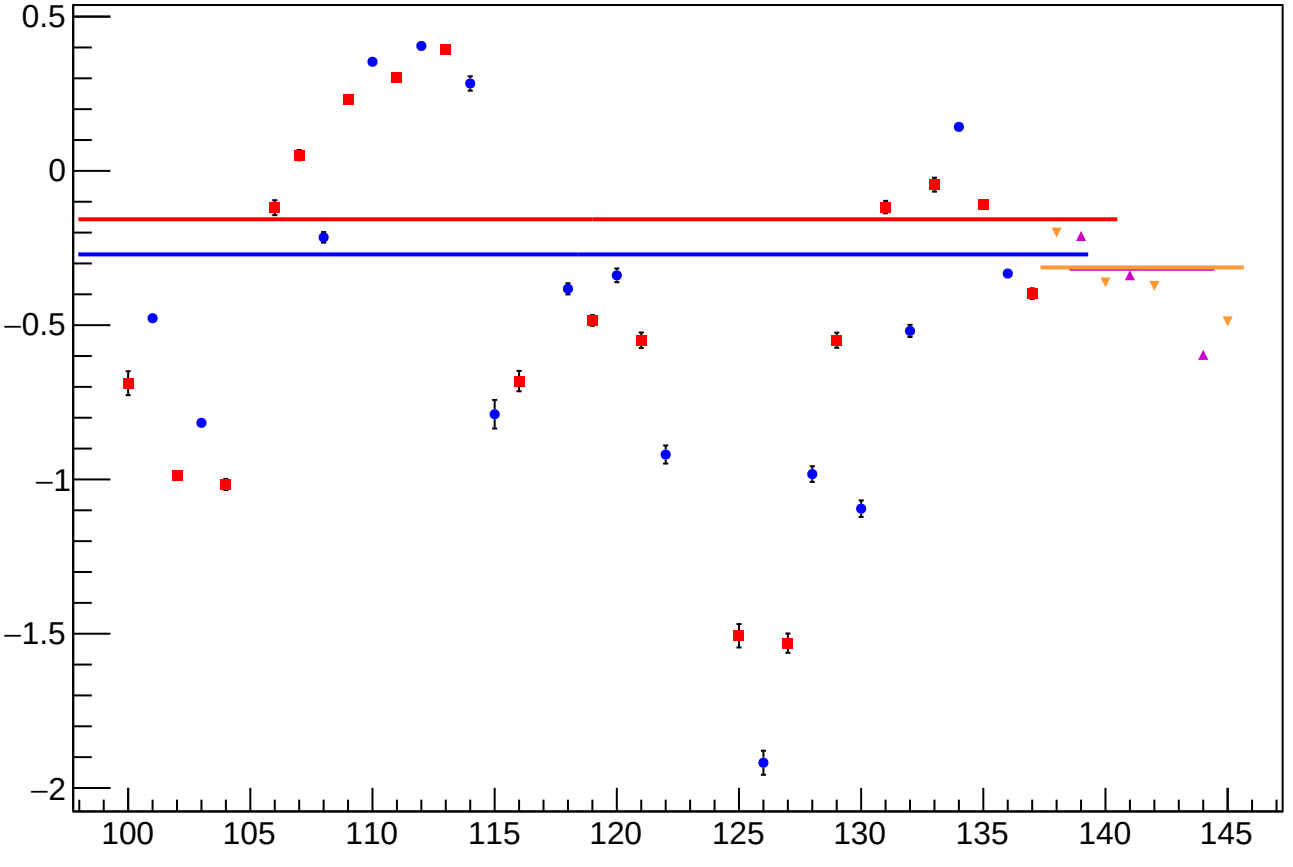
Right: -1.547+/-0.047 $\chi^2$/NDF: 7016.6/33

In: 0.521+/-0.062 $\chi^2$/NDF:9443.3/18

Out: -0.621+/-0.058 $\chi^2$/NDF:5584.1/21

All: -0.088+/-0.042 $\chi^2$/NDF: 15208.9/40

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: -0.313+/-0.005 $\chi^2$/NDF:392.4/3

Right Out: -0.157+/-0.004 $\chi^2$/NDF: 15019.0/17

Left In: -0.317+/-0.005 $\chi^2$/NDF:711.8/2

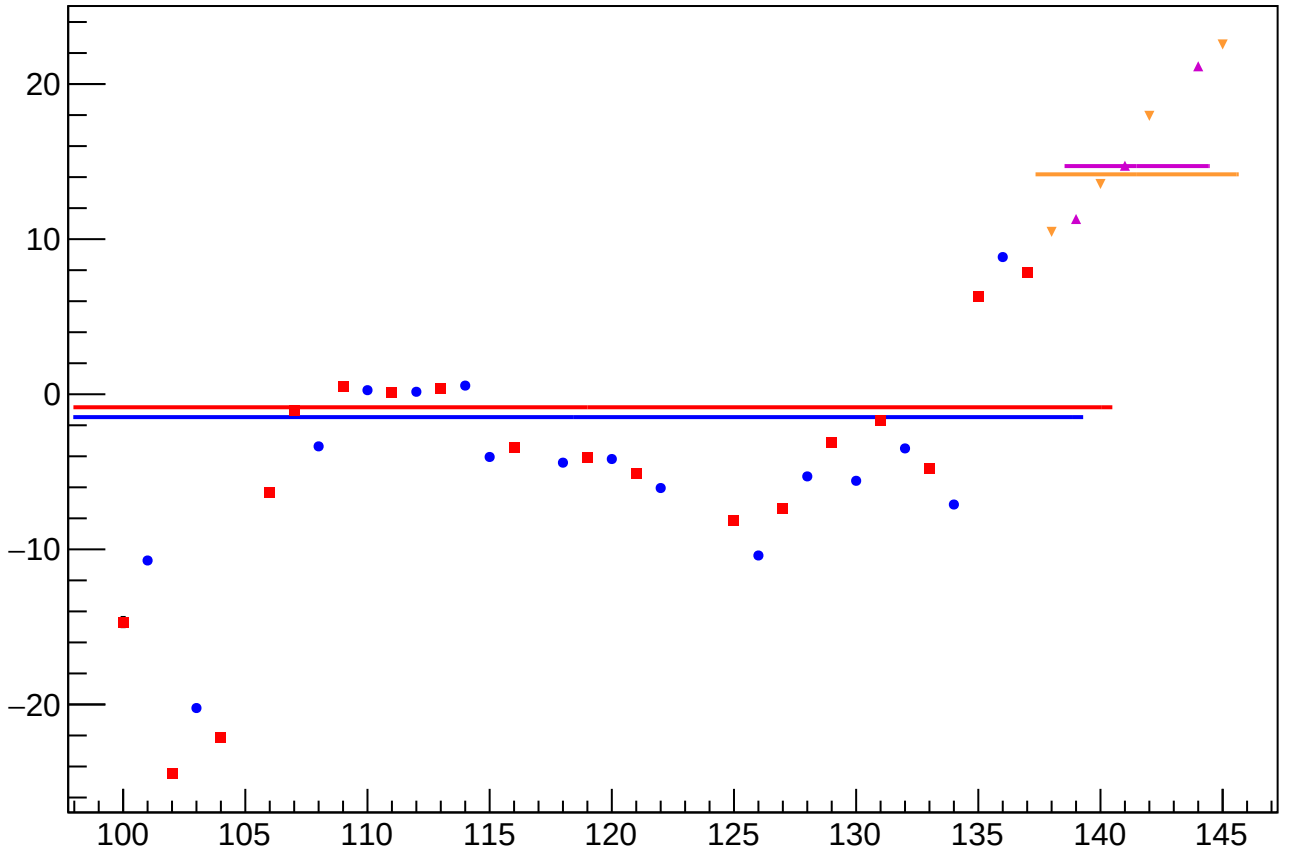
Left: -0.315+/-0.004 $\chi^2$/NDF: 1104.5/6

Right: -0.209+/-0.003 $\chi^2$/NDF: 27526.5/33

In: -0.289+/-0.003 $\chi^2$/NDF:12856.5/18

Out: -0.209+/-0.003 $\chi^2$/NDF:15979.8/21

All: -0.247+/-0.002 $\chi^2$/NDF: 29150.6/40




Right In: -1.474+/-0.019 $\chi^2$/NDF: 73722.2/15

Left Out: 14.179+/-0.043 $\chi^2$/NDF:9247.0/3

Right Out: -0.838+/-0.016 $\chi^2$/NDF: 78013.1/17

Left In: 14.712+/-0.044 $\chi^2$/NDF:7494.2/2

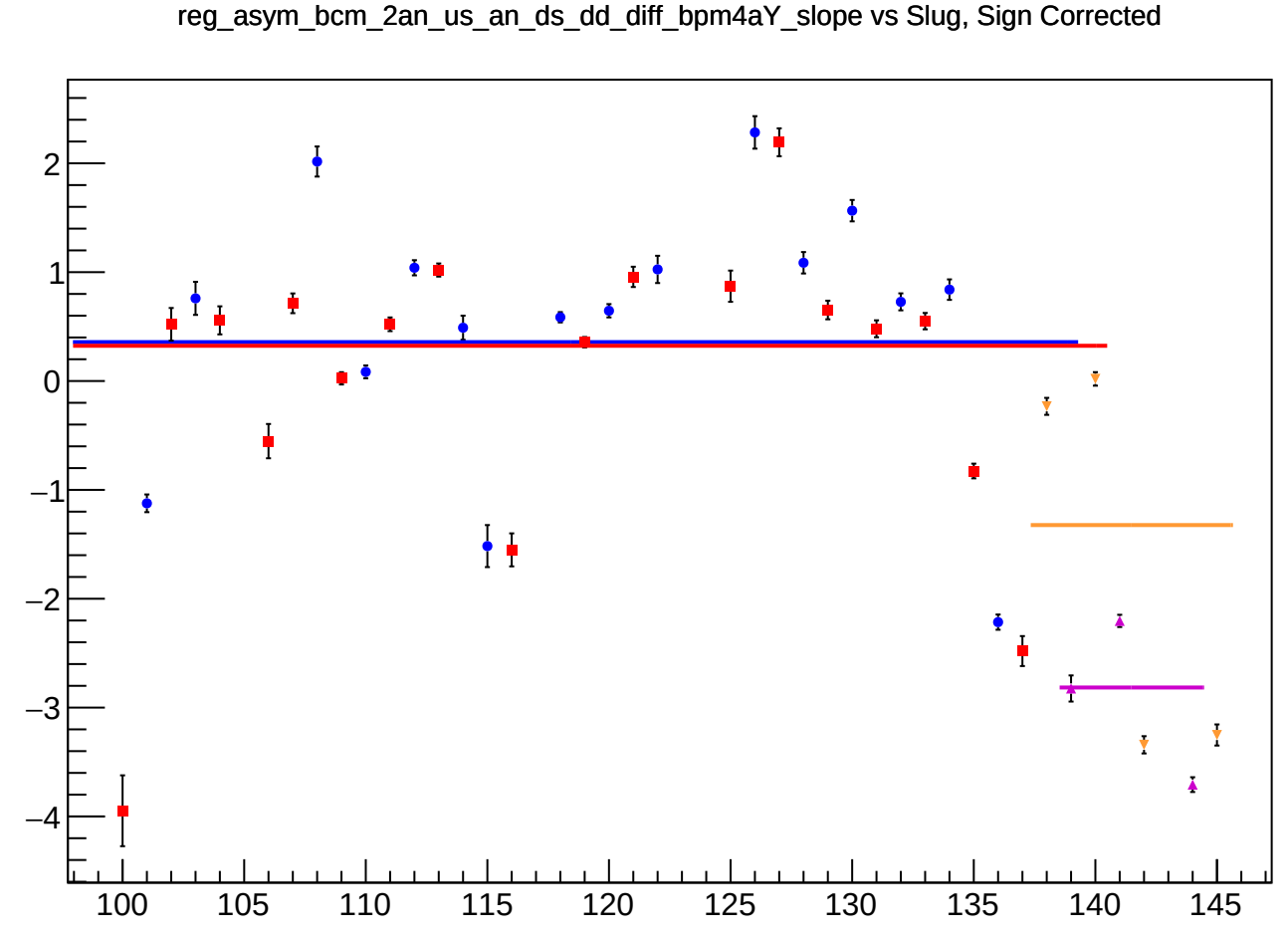
Left: 14.440+/-0.031 $\chi^2$/NDF: 16815.5/6

Right: -1.107+/-0.012 $\chi^2$/NDF: 152399.4/33

In: 1.002+/-0.017 $\chi^2$/NDF:195329.6/18

Out: 0.976+/-0.015 $\chi^2$/NDF:193276.3/21

All: 0.987+/-0.011 $\chi^2$/NDF: 388607.3/40




Right In: 0.357+/-0.021 $\chi^2$/NDF: 2543.0/15

Left Out: -1.323+/-0.038 $\chi^2$/NDF:1706.9/3

Right Out: 0.324+/-0.020 $\chi^2$/NDF: 1558.9/17

Left In: -2.815+/-0.041 $\chi^2$/NDF:291.6/2

Left: -2.020+/-0.028 $\chi^2$/NDF: 2714.9/6

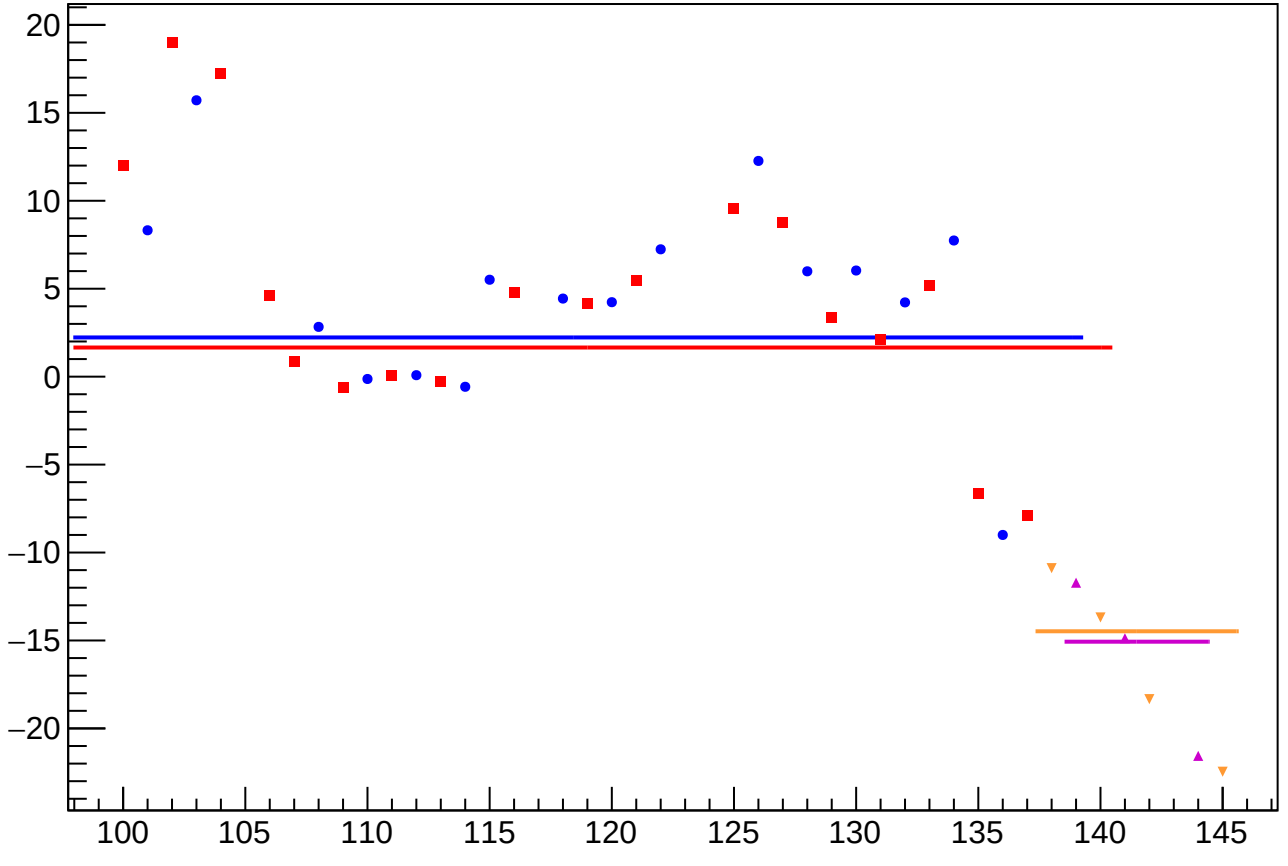
Right: 0.340+/-0.014 $\chi^2$/NDF: 4103.4/33

In: -0.289+/-0.018 $\chi^2$/NDF:7674.6/18

Out: -0.024+/-0.017 $\chi^2$/NDF:4740.3/21

All: -0.150+/-0.013 $\chi^2$/NDF: 12524.5/40

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: -14.477+/-0.045 $\chi^2$/NDF:8141.7/3

Right Out: 1.657+/-0.020 $\chi^2$/NDF: 72797.4/17

Left In: -15.069+/-0.046 $\chi^2$/NDF:7025.5/2

Left: -14.768+/-0.032 $\chi^2$/NDF: 15253.2/6

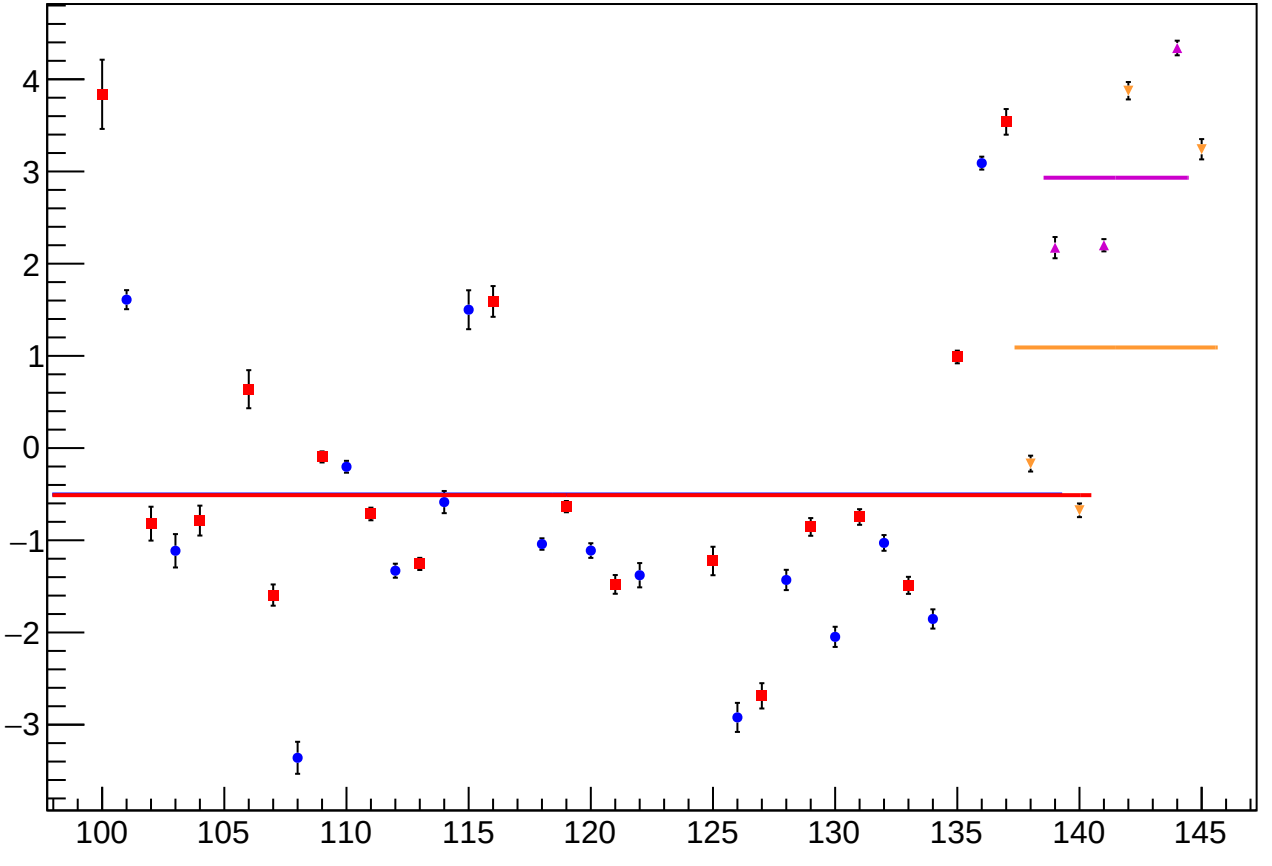
Right: 1.919+/-0.015 $\chi^2$/NDF: 142343.2/33

In: -1.102+/-0.020 $\chi^2$/NDF:192524.4/18

Out: -1.130+/-0.019 $\chi^2$/NDF:188467.8/21

All: -1.117+/-0.014 $\chi^2$/NDF: 380993.2/40

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: 1.091+/-0.044 $\chi^2$/NDF:2032.2/3

Right Out: -0.511+/-0.022 $\chi^2$/NDF: 2424.0/17

Left In: 2.932+/-0.047 $\chi^2$/NDF:477.9/2

Left: 1.963+/-0.032 $\chi^2$/NDF: 3330.6/6

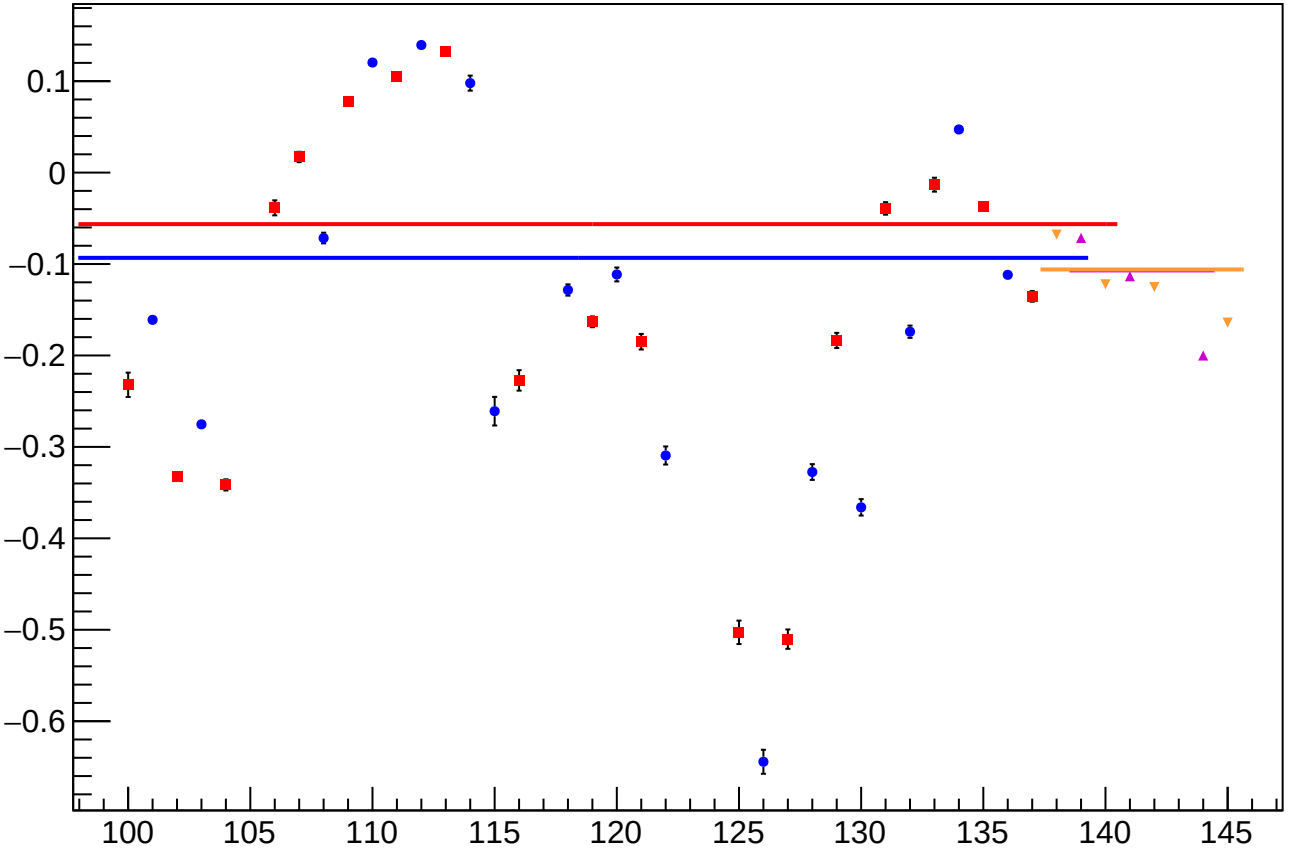
Right: -0.507+/-0.016 $\chi^2$/NDF: 6871.2/33

In: 0.202+/-0.021 $\chi^2$/NDF:9238.2/18

Out: -0.187+/-0.020 $\chi^2$/NDF:5502.8/21

All: -0.004+/-0.014 $\chi^2$/NDF: 14920.6/40

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.093+/-0.001 $\chi^2$/NDF: 11742.4/15

Left Out: -0.106+/-0.002 $\chi^2$/NDF:381.6/3

Right Out: -0.056+/-0.001 $\chi^2$/NDF: 14457.4/17

Left In: -0.107+/-0.002 $\chi^2$/NDF:691.4/2

Left: -0.106+/-0.001 $\chi^2$/NDF: 1073.1/6

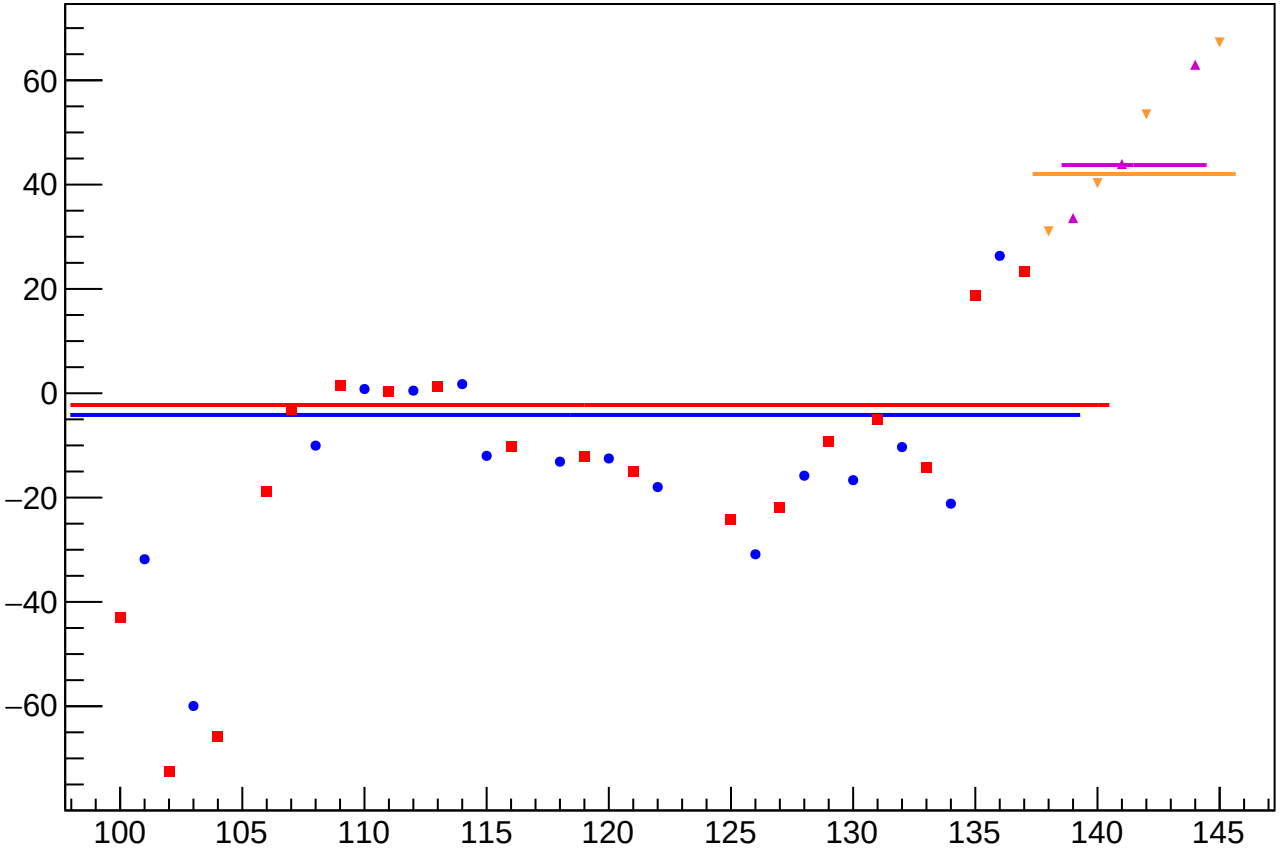
Right: -0.073+/-0.001 $\chi^2$/NDF: 26566.6/33

In: -0.099+/-0.001 $\chi^2$/NDF:12470.4/18

Out: -0.073+/-0.001 $\chi^2$/NDF:15330.8/21

All: -0.085+/-0.001 $\chi^2$/NDF: 28073.7/40

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: 42.037+/-0.127 $\chi^2$/NDF:9546.2/3

Right Out: -2.251+/-0.046 $\chi^2$/NDF: 79637.5/17

Left In: 43.750+/-0.130 $\chi^2$/NDF:7674.5/2

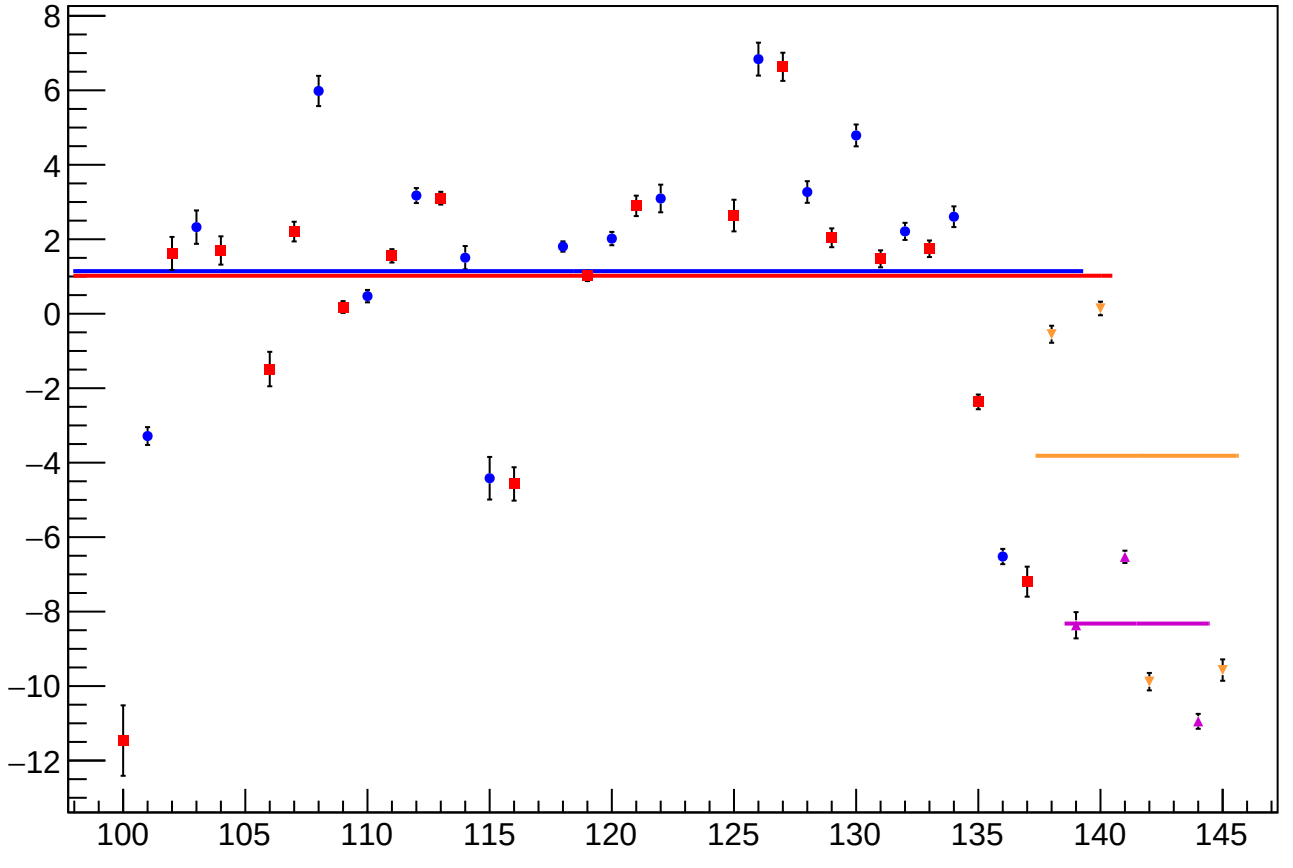
Left: 42.876+/-0.091 $\chi^2$/NDF: 17309.5/6

Right: -3.046+/-0.035 $\chi^2$/NDF: 155775.7/33

In: 2.988+/-0.050 $\chi^2$/NDF:198895.5/18

Out: 2.864+/-0.043 $\chi^2$/NDF:196416.6/21

All: 2.917+/-0.033 $\chi^2$/NDF: 395315.6/40




Right In: 1.144+/-0.060 $\chi^2$/NDF: 2595.3/15

Left Out: -3.815+/-0.112 $\chi^2$/NDF:1743.7/3

Right Out: 1.021+/-0.057 $\chi^2$/NDF: 1591.2/17

Left In: -8.322+/-0.120 $\chi^2$/NDF:288.6/2

Left: -5.918+/-0.082 $\chi^2$/NDF: 2784.3/6

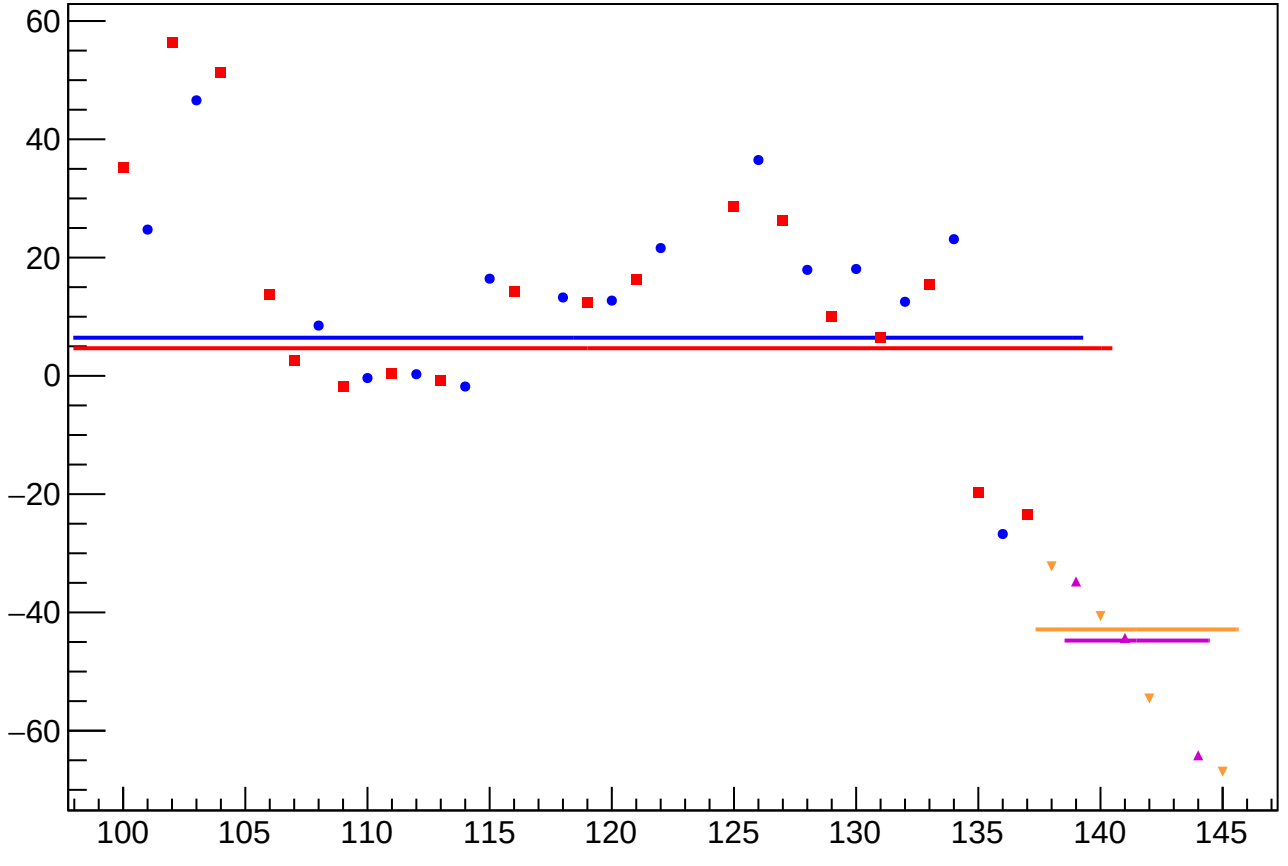
Right: 1.079+/-0.041 $\chi^2$/NDF: 4188.7/33

In: -0.755+/-0.054 $\chi^2$/NDF:7855.9/18

Out: 0.026+/-0.051 $\chi^2$/NDF:4808.0/21

All: -0.343+/-0.037 $\chi^2$/NDF: 12775.0/40

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: -42.875+/-0.132 $\chi^2$/NDF:8411.8/3

Right Out: 4.671+/-0.059 $\chi^2$/NDF: 74420.3/17

Left In: -44.758+/-0.134 $\chi^2$/NDF:7192.2/2

Left: -43.798+/-0.094 $\chi^2$/NDF: 15704.3/6

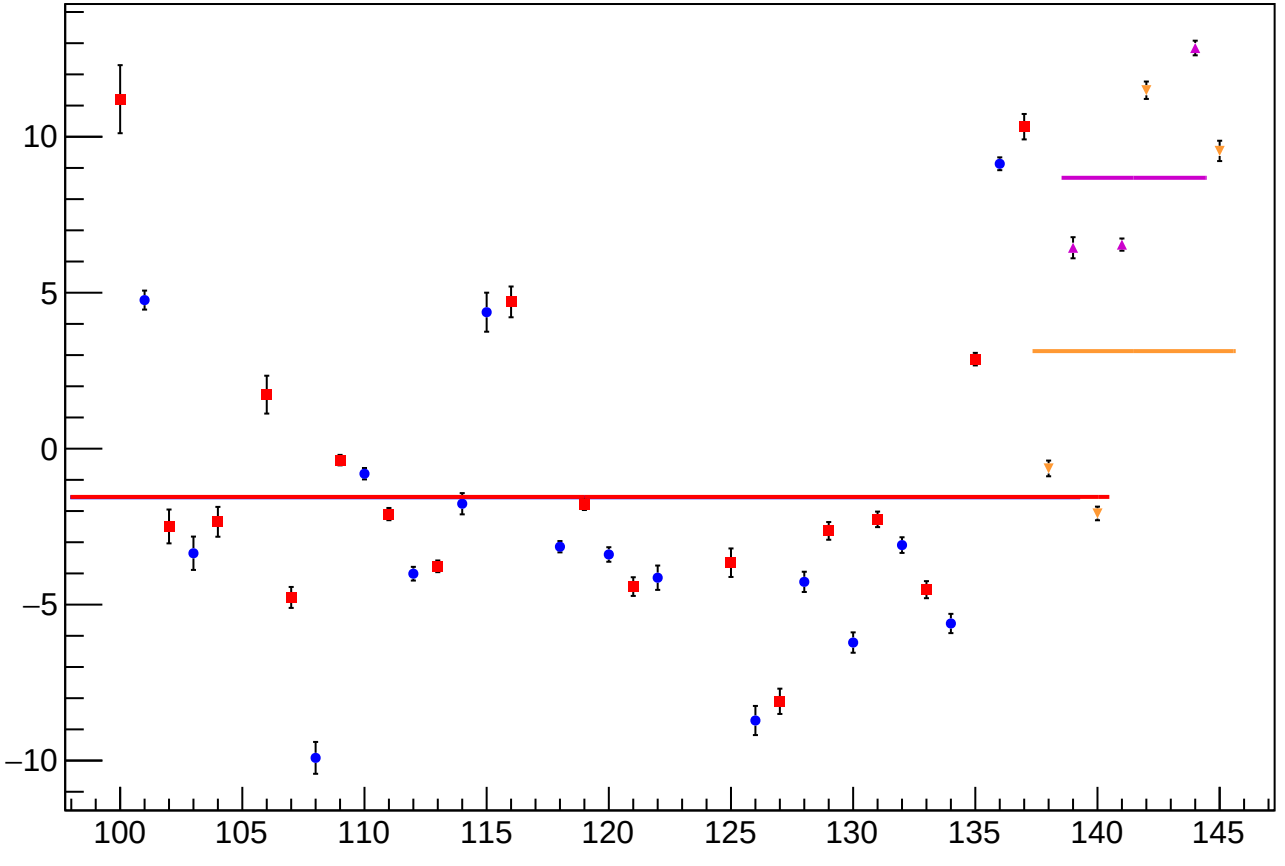
Right: 5.475+/-0.044 $\chi^2$/NDF: 145645.8/33

In: -3.252+/-0.058 $\chi^2$/NDF:195979.5/18

Out: -3.285+/-0.054 $\chi^2$/NDF:191469.8/21

All: -3.270+/-0.040 $\chi^2$/NDF: 387449.5/40

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -1.558+/-0.069 $\chi^2$/NDF: 4543.1/15

Left Out: 3.127+/-0.130 $\chi^2$/NDF:2076.1/3

Right Out: -1.547+/-0.064 $\chi^2$/NDF: 2470.1/17

Left In: 8.684+/-0.138 $\chi^2$/NDF:476.9/2

Left: 5.756+/-0.095 $\chi^2$/NDF: 3413.4/6

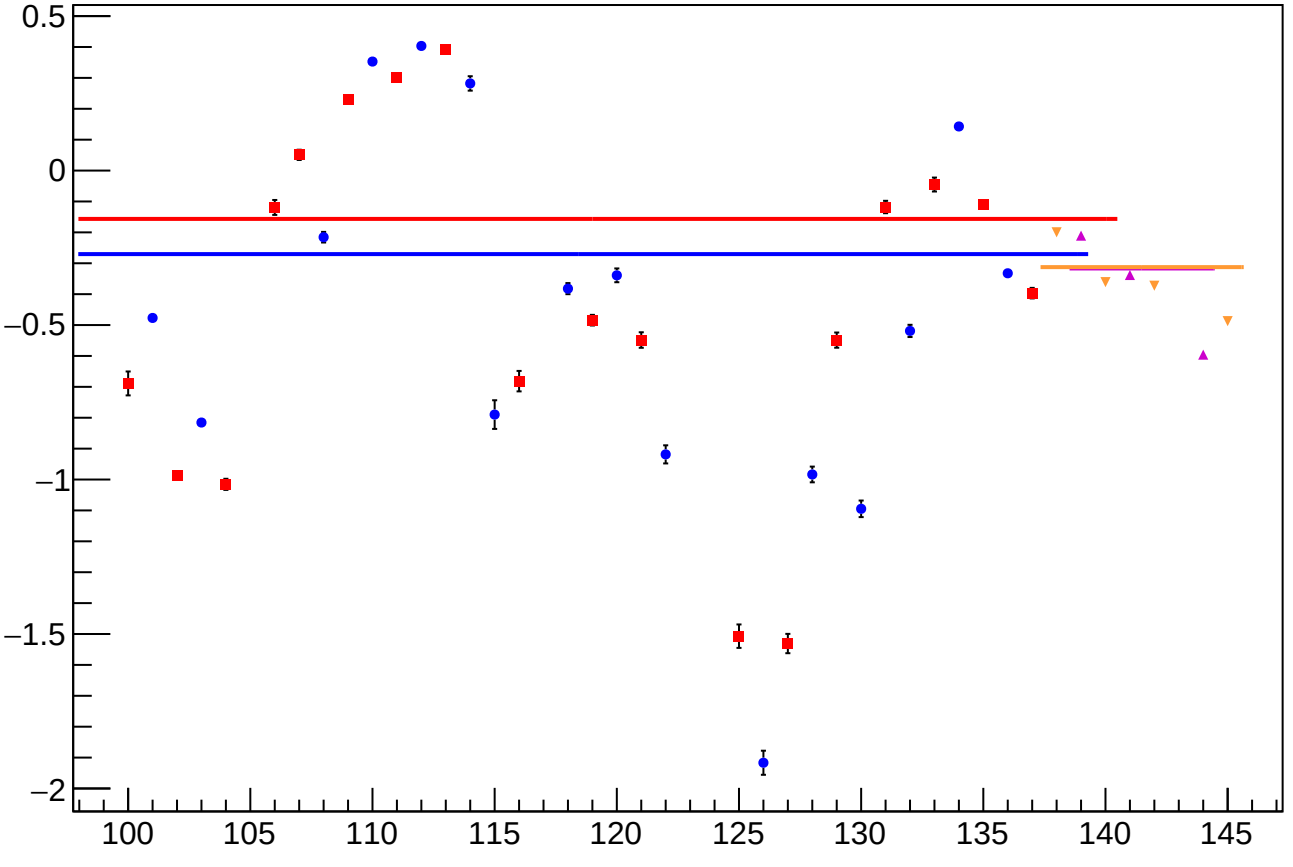
Right: -1.552+/-0.047 $\chi^2$/NDF: 7013.2/33

In: 0.513+/-0.062 $\chi^2$/NDF:9445.5/18

Out: -0.627+/-0.058 $\chi^2$/NDF:5579.8/21

All: -0.095+/-0.042 $\chi^2$/NDF: 15206.5/40

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: -0.313+/-0.005 $\chi^2$/NDF:392.6/3

Right Out: -0.156+/-0.004 $\chi^2$/NDF: 15030.0/17

Left In: -0.317+/-0.005 $\chi^2$/NDF:712.7/2

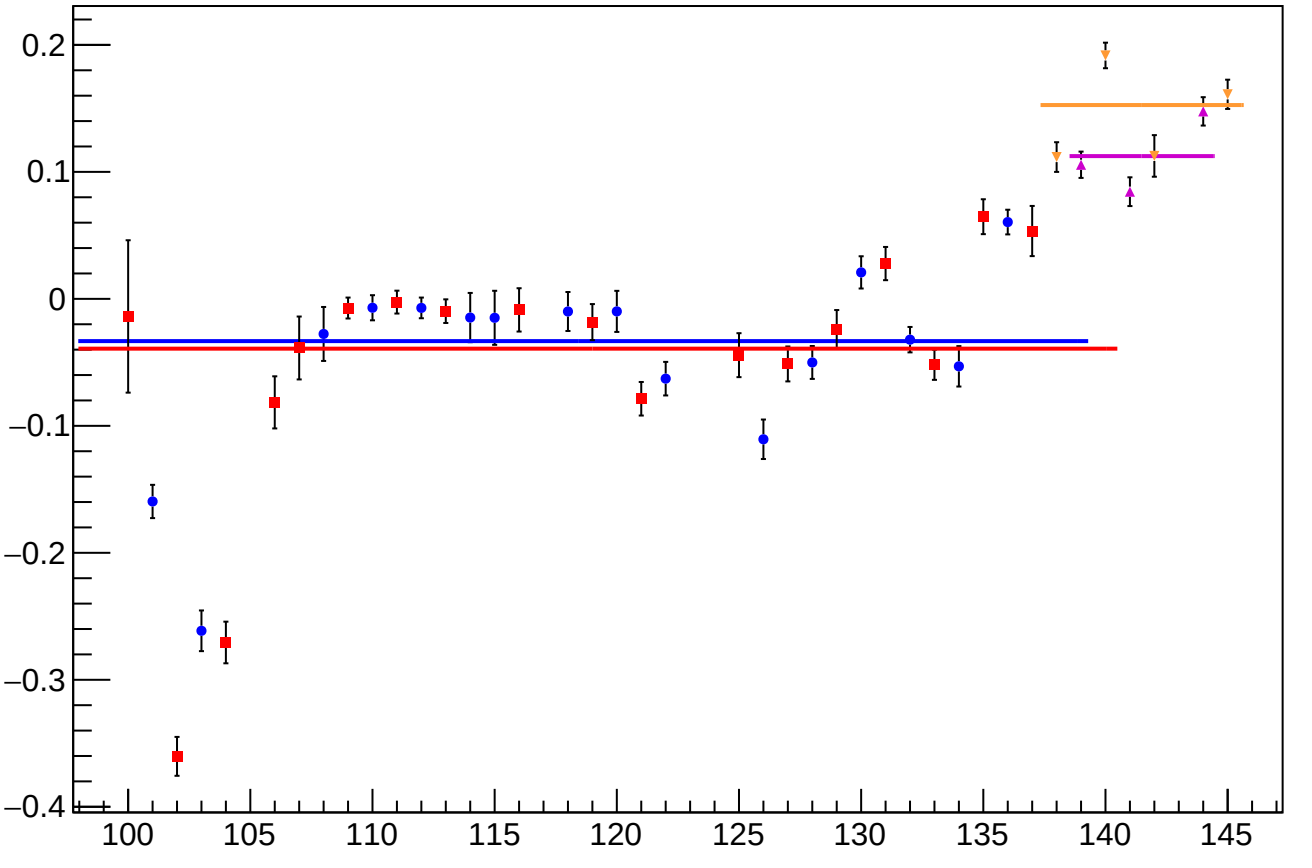
Left: -0.315+/-0.004 $\chi^2$/NDF: 1105.6/6

Right: -0.208+/-0.003 $\chi^2$/NDF: 27539.3/33

In: -0.288+/-0.003 $\chi^2$/NDF:12858.3/18

Out: -0.209+/-0.003 $\chi^2$/NDF:15991.7/21

All: -0.247+/-0.002 $\chi^2$/NDF: 29165.5/40




Right In: -0.033+/-0.003 $\chi^2$/NDF: 463.5/15

Left Out: 0.153+/-0.006 $\chi^2$/NDF:33.8/3

Right Out: -0.039+/-0.003 $\chi^2$/NDF: 807.6/17

Left In: 0.112+/-0.006 $\chi^2$/NDF:16.5/2

Left: 0.134+/-0.004 $\chi^2$/NDF: 71.9/6

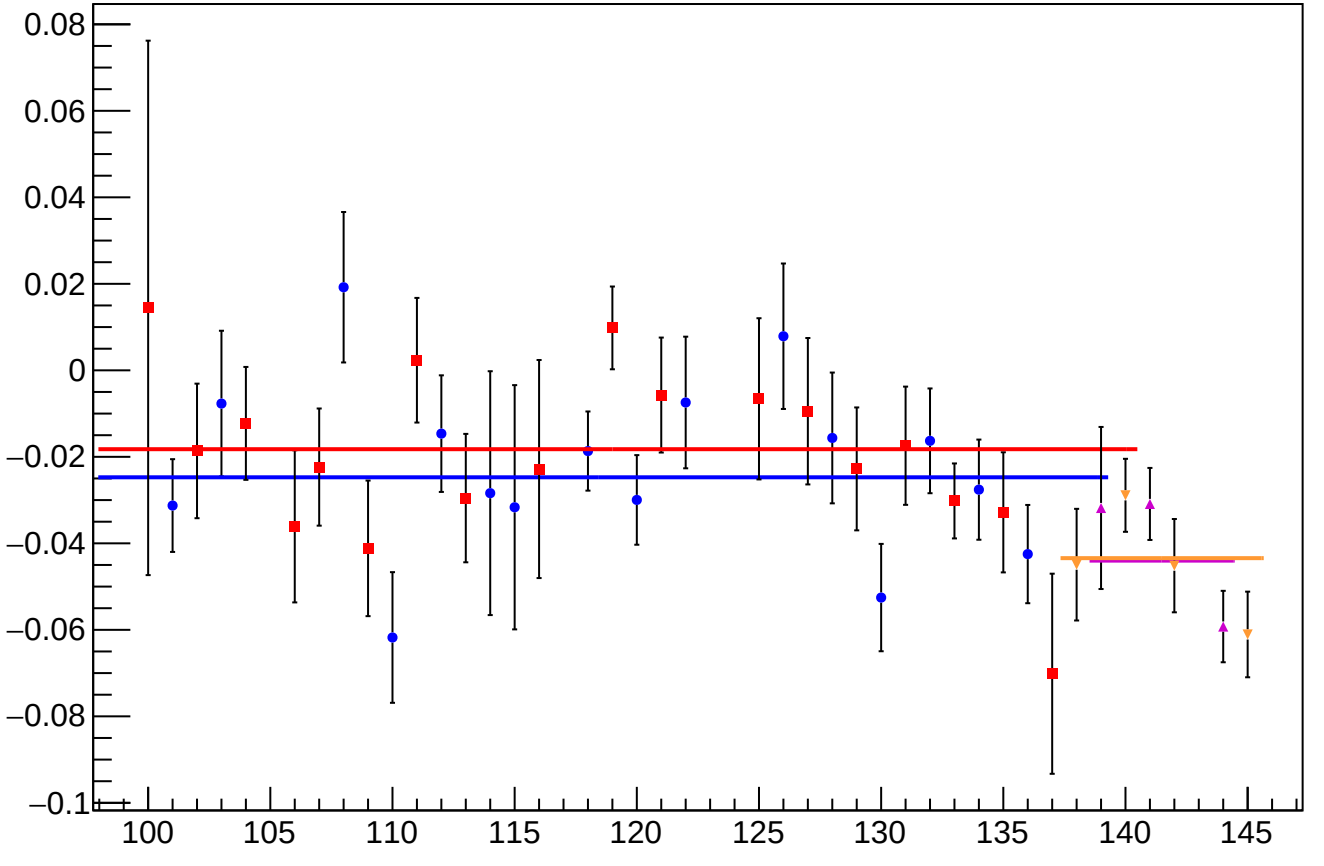
Right: -0.036+/-0.002 $\chi^2$/NDF: 1272.8/33

In: -0.003+/-0.003 $\chi^2$/NDF:903.4/18

Out: 0.004+/-0.003 $\chi^2$/NDF:1654.2/21

All: 0.000+/-0.002 $\chi^2$/NDF: 2560.6/40

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: -0.043+/-0.005 $\chi^2$/NDF:6.2/3

Right Out: -0.018+/-0.003 $\chi^2$/NDF: 24.7/17

Left In: -0.044+/-0.006 $\chi^2$/NDF:6.3/2

Left: -0.044+/-0.004 $\chi^2$/NDF: 12.5/6

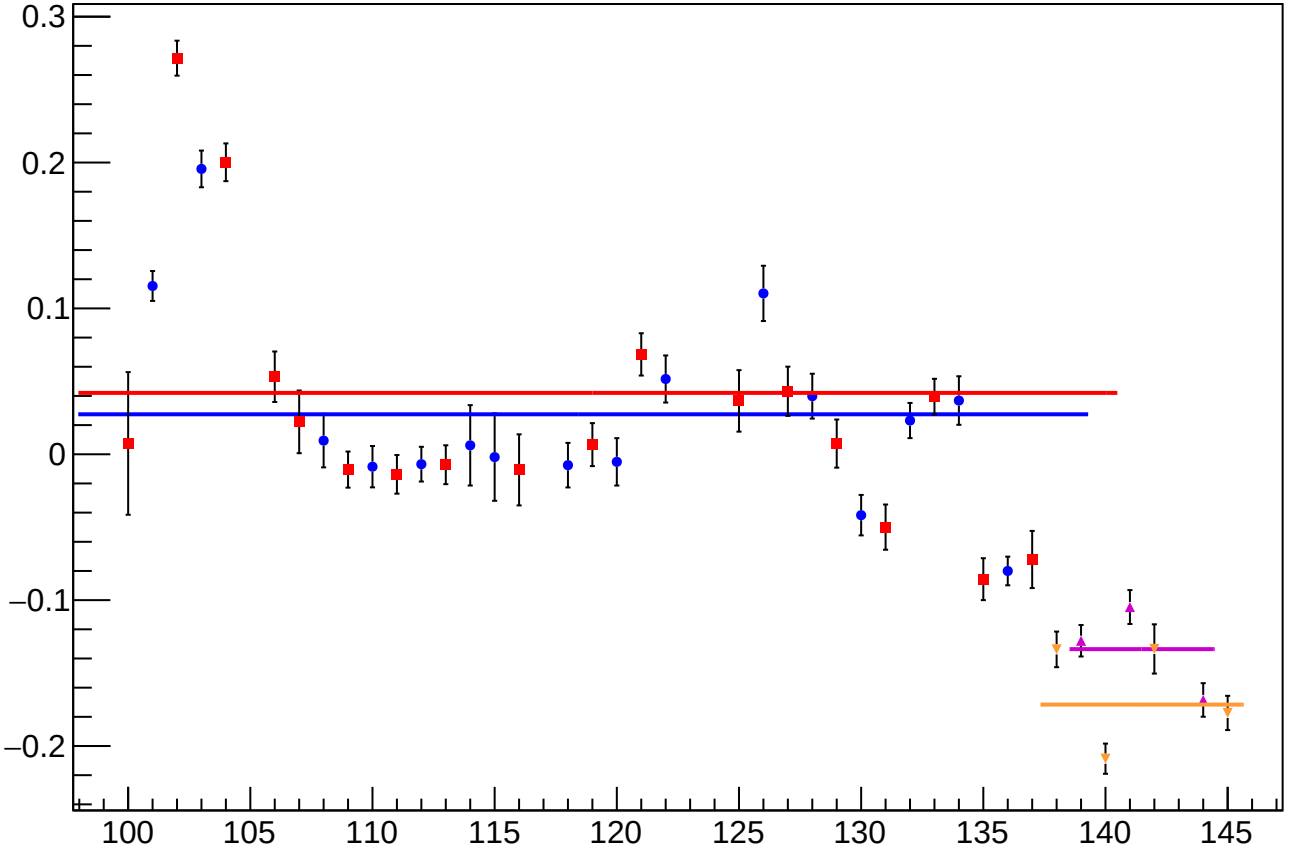
Right: -0.022+/-0.002 $\chi^2$/NDF: 55.1/33

In: -0.030+/-0.003 $\chi^2$/NDF:43.6/18

Out: -0.026+/-0.003 $\chi^2$/NDF:47.9/21

All: -0.028+/-0.002 $\chi^2$/NDF: 92.4/40

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: -0.172+/-0.006 $\chi^2$/NDF:27.8/3

Right Out: 0.042+/-0.004 $\chi^2$/NDF: 733.2/17

Left In: -0.134+/-0.007 $\chi^2$/NDF:15.6/2

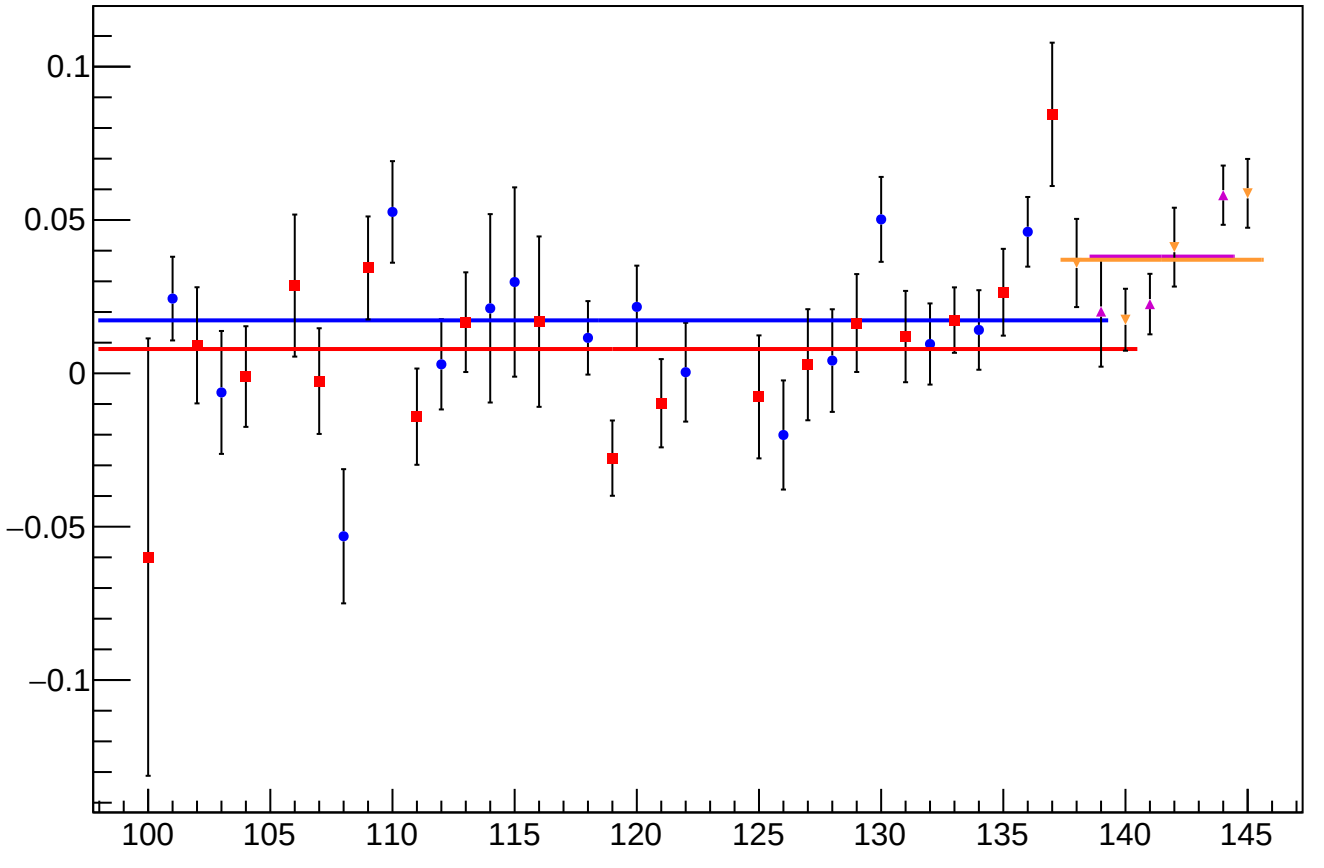
Left: -0.154+/-0.004 $\chi^2$/NDF: 61.5/6

Right: 0.035+/-0.003 $\chi^2$/NDF: 1187.6/33

In: -0.010+/-0.003 $\chi^2$/NDF:931.0/18

Out: -0.014+/-0.003 $\chi^2$/NDF:1664.0/21

All: -0.012+/-0.002 $\chi^2$/NDF: 2595.8/40




Right In: 0.017+/-0.004 $\chi^2$/NDF: 36.7/15

Left Out: 0.037+/-0.006 $\chi^2$/NDF:7.6/3

Right Out: 0.008+/-0.004 $\chi^2$/NDF: 31.4/17

Left In: 0.038+/-0.006 $\chi^2$/NDF:7.8/2

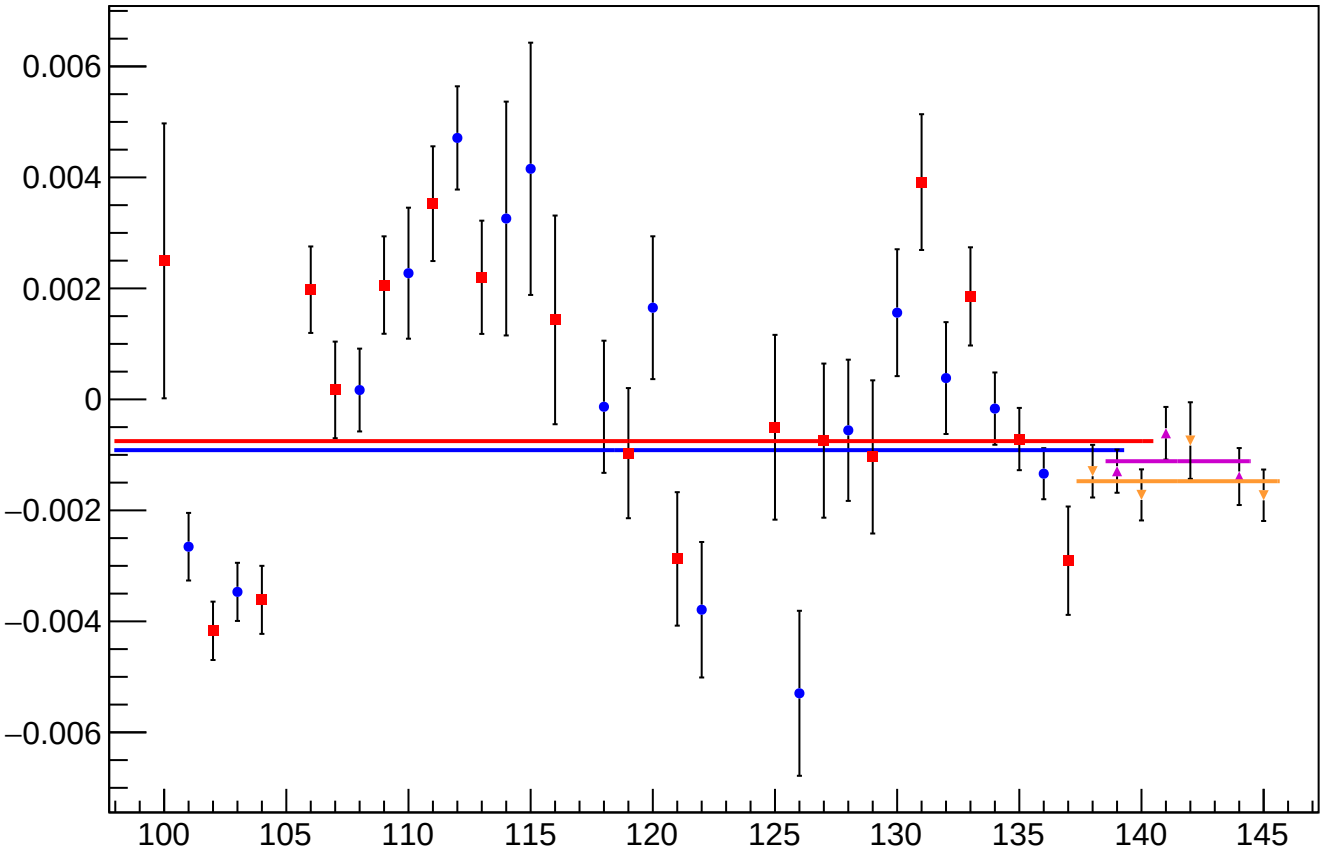
Left: 0.038+/-0.004 $\chi^2$/NDF: 15.4/6

Right: 0.013+/-0.003 $\chi^2$/NDF: 71.0/33

In: 0.023+/-0.003 $\chi^2$/NDF:52.1/18

Out: 0.017+/-0.003 $\chi^2$/NDF:55.9/21

All: 0.020+/-0.002 $\chi^2$/NDF: 109.6/40




Right In: -0.001+/-0.000 $\chi^2$/NDF: 114.1/15

Left Out: -0.001+/-0.000 $\chi^2$/NDF:1.9/3

Right Out: -0.001+/-0.000 $\chi^2$/NDF: 147.6/17

Left In: -0.001+/-0.000 $\chi^2$/NDF:1.6/2

Left: -0.001+/-0.000 $\chi^2$/NDF: 4.5/6

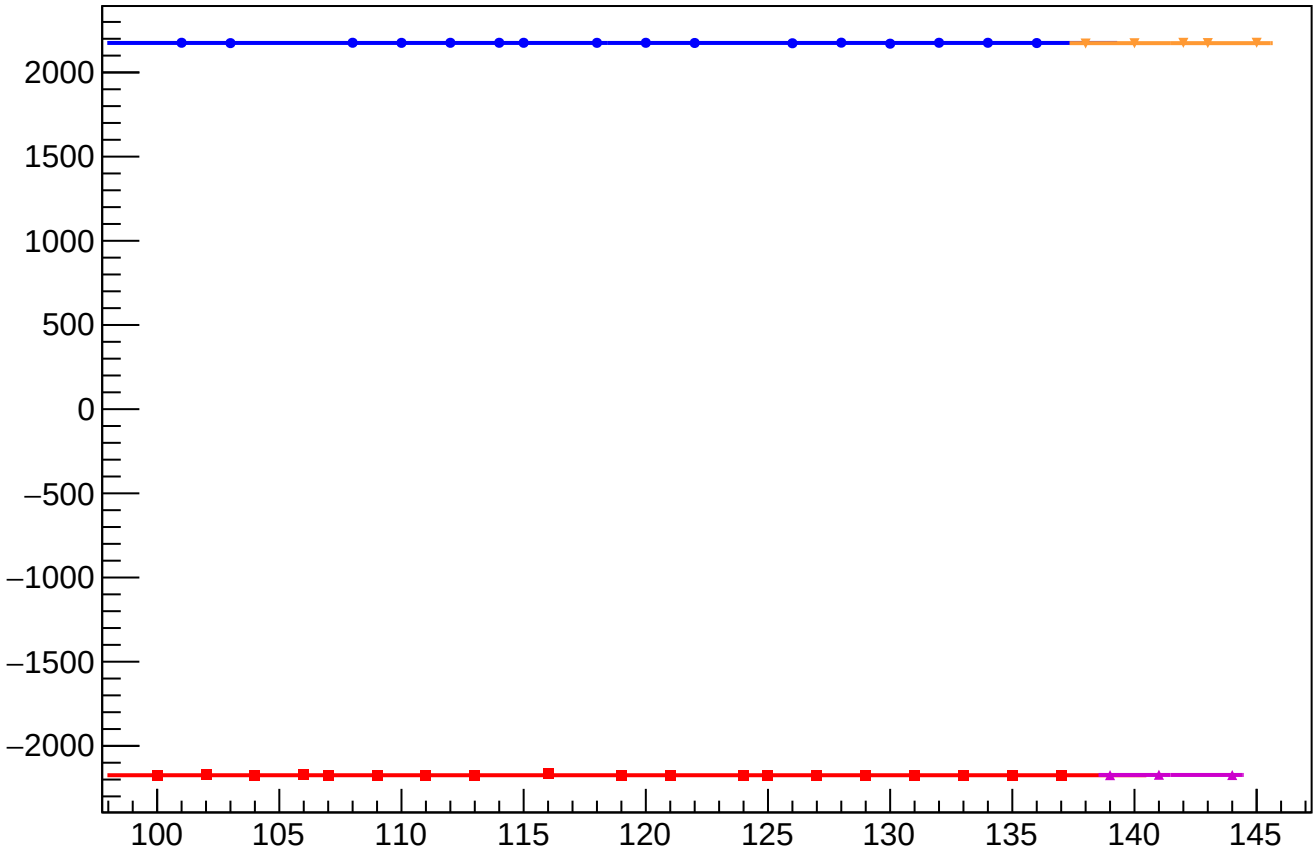
Right: -0.001+/-0.000 $\chi^2$/NDF: 261.9/33

In: -0.001+/-0.000 $\chi^2$/NDF:116.1/18

Out: -0.001+/-0.000 $\chi^2$/NDF:154.3/21

All: -0.001+/-0.000 $\chi^2$/NDF: 270.4/40

# HALLA_p_mean vs Slug, Sign Corrected




Right In: 2175.201+/-0.000 $\chi^2$/NDF: 176572407292366018093705133136281 6.0/15

Left Out: 2174.003+/-0.000 $\chi^2$/NDF:10245289551869720032139007586467 84.0/4

Right Out: -2174.324+/-0.000 $\chi^2$/NDF: 554223941568104692872352720171 8272.0/18

Left In: -2172.700+/-0.000 $\chi^2$/NDF:27416283048785912530261074824 3968.0/2

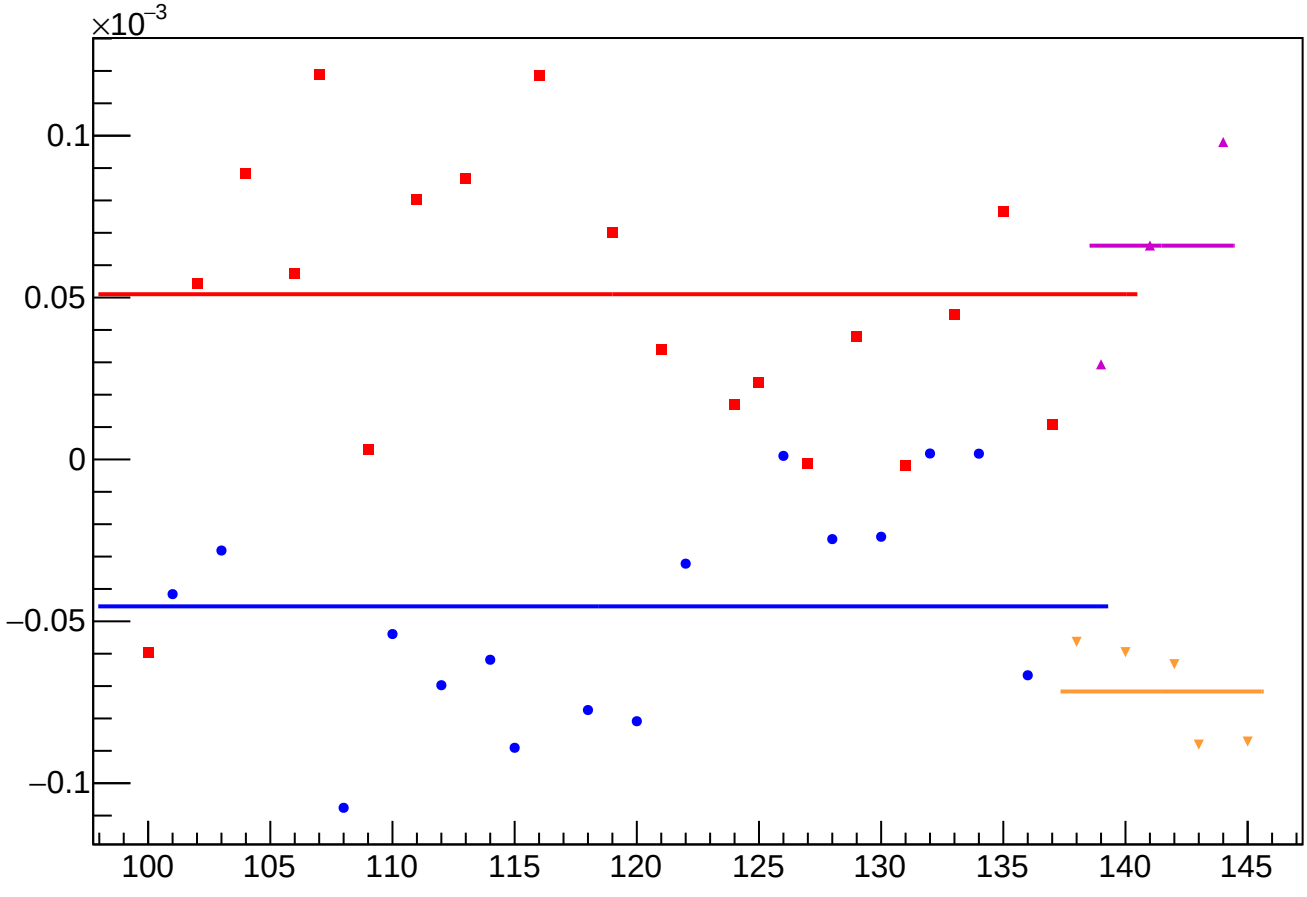
Left: 359.554+/-0.000 $\chi^2$/NDF: 3004901035279437

Right: -31.373+/-0.000 $\chi^2$/NDF: 7111791049076111

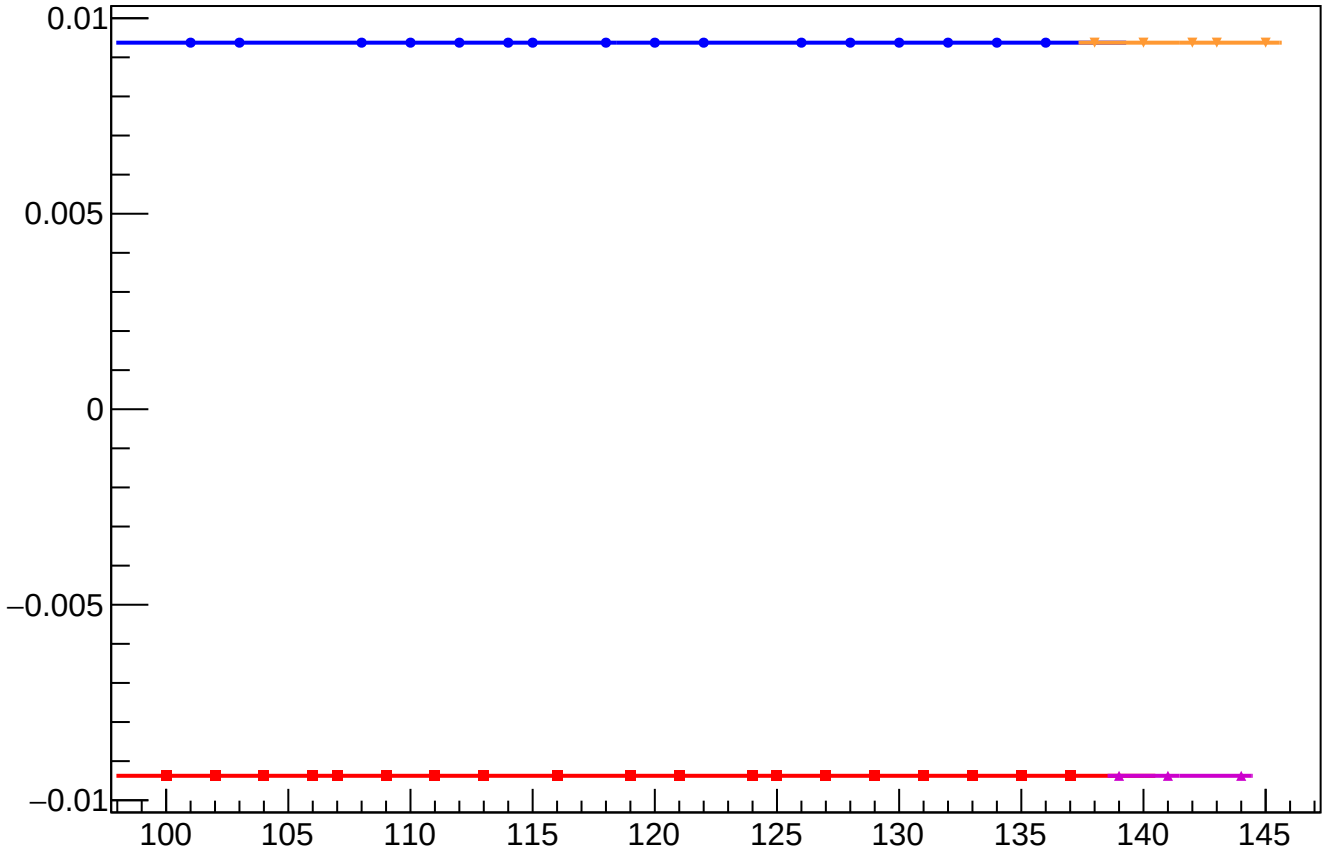
In: 1004.612+/-0.000 $\chi^2$/NDF:377139922592451 4

Out: -726.148+/-0.000 $\chi^2$/NDF:480472507879758

All: 87.101+/-0.000 $\chi^2$/NDF: 1018634913149


HALLA_dpp_mean vs Slug, Sign Corrected
×10⁻³
0.1
0.05
0
−0.05
−0.1
100
105
110
115
120
125
130
135
140
145
Right In: -0.000+/-0.000 χ²/NDF: 7131320813781223777239040.0/15
Left Out: -0.000+/-0.000 χ²/NDF:7784035614143841881292 8.0/4
Right Out: 0.000+/-0.000 χ²/NDF: 10119559107206471011532 80.0/18
Left In: 0.000+/-0.000 χ²/NDF:2112250239967578470481 92.0/2
Left: -0.000+/-0.000 χ²/NDF: 330489949785737 05
Right: 0.000+/-0.000 χ²/NDF: 521935687334018 49
In: -0.000+/-0.000 χ²/NDF:340065493143116 323
Out: 0.000+/-0.000 χ²/NDF:491583120895162 206
All: -0.000+/-0.000 χ²/NDF: 866741027670 0

# 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:0.0/4

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.0/2

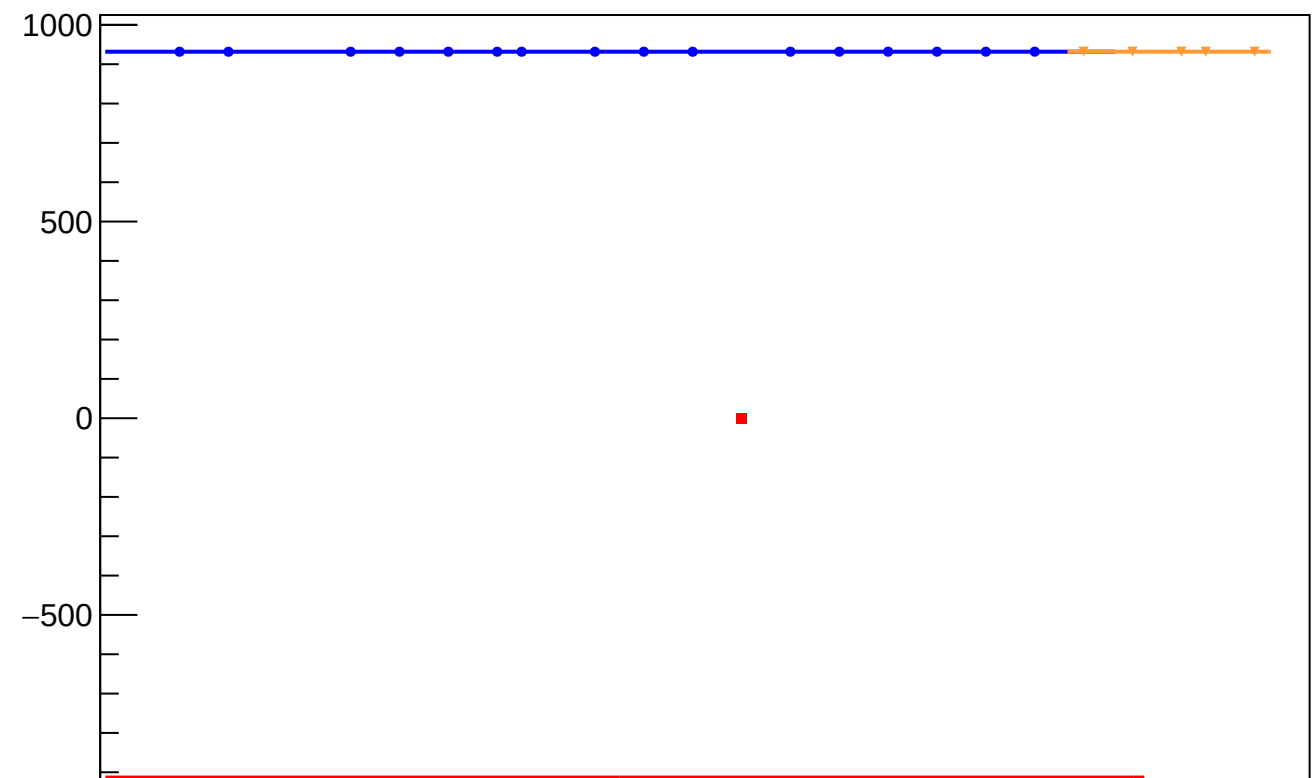
Left: 0.002+/-0.000 $\chi^2$/NDF: 559129515481649550

Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: 0.004+/-0.000 $\chi^2$/NDF:701367187499998568

Out: -0.003+/-0.000 $\chi^2$/NDF:89335903354457896

All: 0.000+/-0.000 $\chi^2$/NDF: 18936674582947




Right In: 931.769+/-0.000 $\chi^2$/NDF: 2757217223595001187167685836800.0/15

Left Out: 931.865+/-0.000 $\chi^2$/NDF:954407444165110595766636833792.0/4

Right Out: -913.447+/-0.000 $\chi^2$/NDF: 12765879635094435683491886518824337408.0/18

Left In: -931.869+/-0.000 $\chi^2$/NDF:433965790282951012378895974 4.0/2

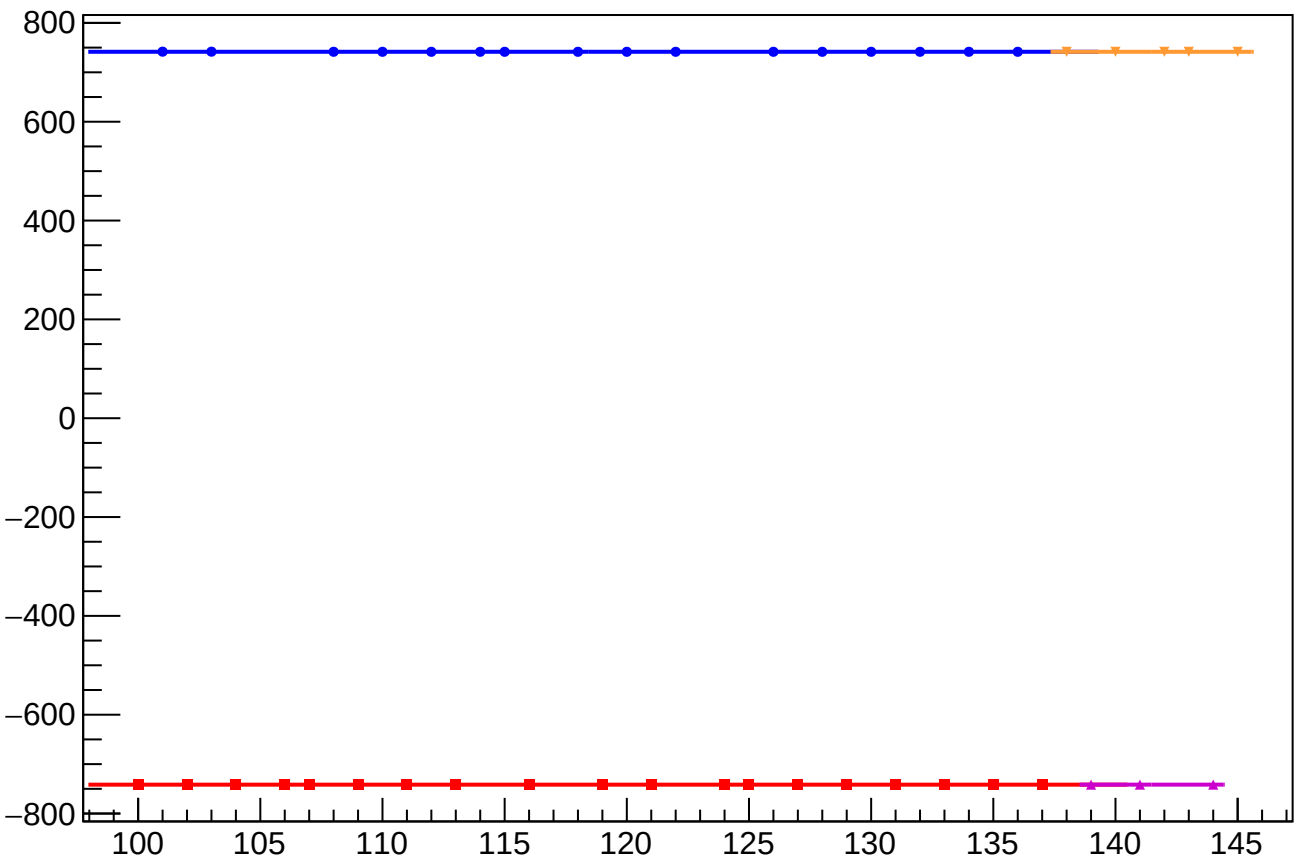
Left: 153.884+/-0.000 $\chi^2$/NDF: 5524308003289411

Right: -4.335+/-0.000 $\chi^2$/NDF: 1292705120140630

In: 430.020+/-0.000 $\chi^2$/NDF:69289311927446315

Out: -298.881+/-0.000 $\chi^2$/NDF:878058582761720

All: 43.615+/-0.000 $\chi^2$/NDF: 1856546014967




Right In: 741.569+/-0.000 $\chi^2$/NDF: 643295117612794706193889938 6368.0/15

Left Out: 741.527+/-0.000 $\chi^2$/NDF:123862746165827244179545128 96.0/4

Right Out: -741.577+/-0.000 $\chi^2$/NDF: 769226394789261471153747761 5616.0/18

Left In: -741.529+/-0.000 $\chi^2$/NDF:426145427694860000593077862 4.0/2

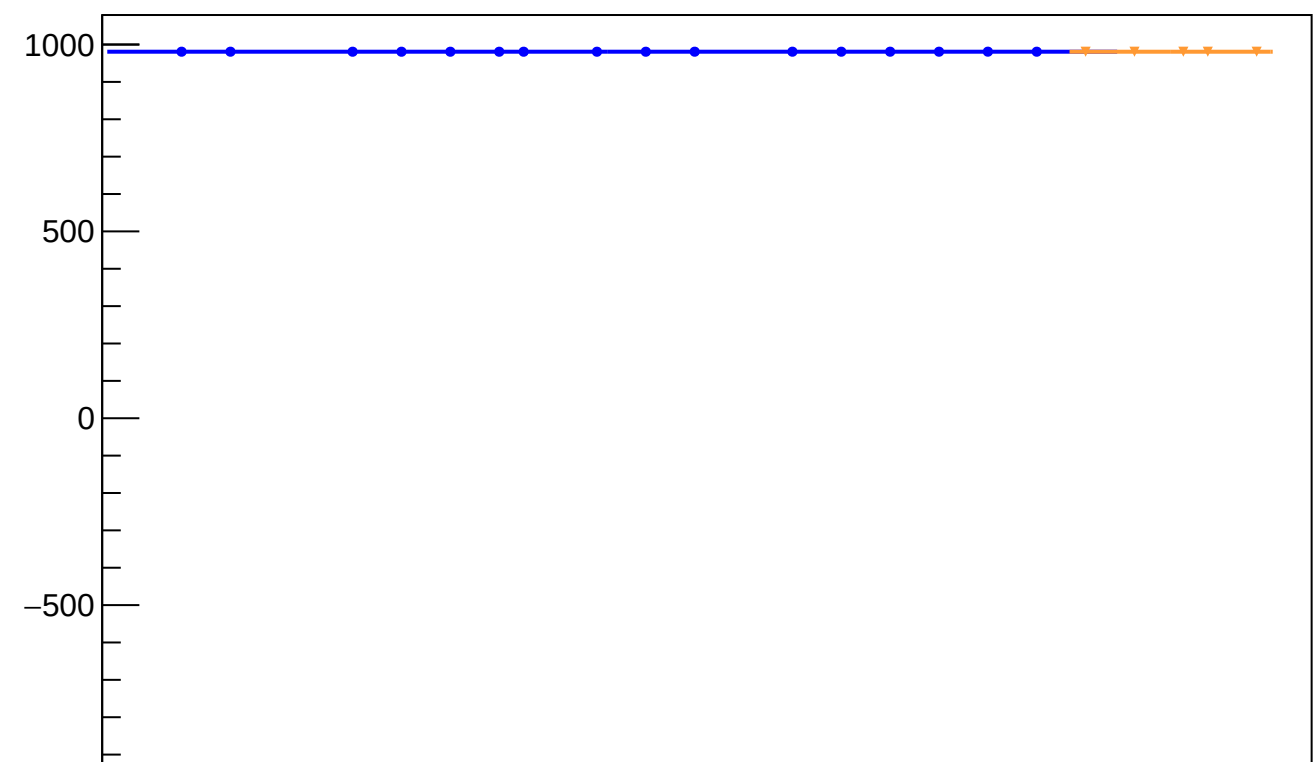
Left: 122.453+/-0.000 $\chi^2$/NDF: 3498041620999891

Right: -10.851+/-0.000 $\chi^2$/NDF: 826918104240998

In: 342.273+/-0.000 $\chi^2$/NDF:43881606617307948

Out: -247.641+/-0.000 $\chi^2$/NDF:558941767460876

All: 29.548+/-0.000 $\chi^2$/NDF: 1184821880796




Right In: 980.804+/-0.000 $\chi^2$/NDF: 9333132768848077867742459330560.0/15

Left Out: 980.764+/-0.000 $\chi^2$/NDF:3521128462250947608544542720.0/4

Right Out: -980.725+/-0.000 $\chi^2$/NDF: 560402056173583362216628762705920.0/18

Left In: -980.763+/-0.000 $\chi^2$/NDF:859389189379556047759343616.0/2

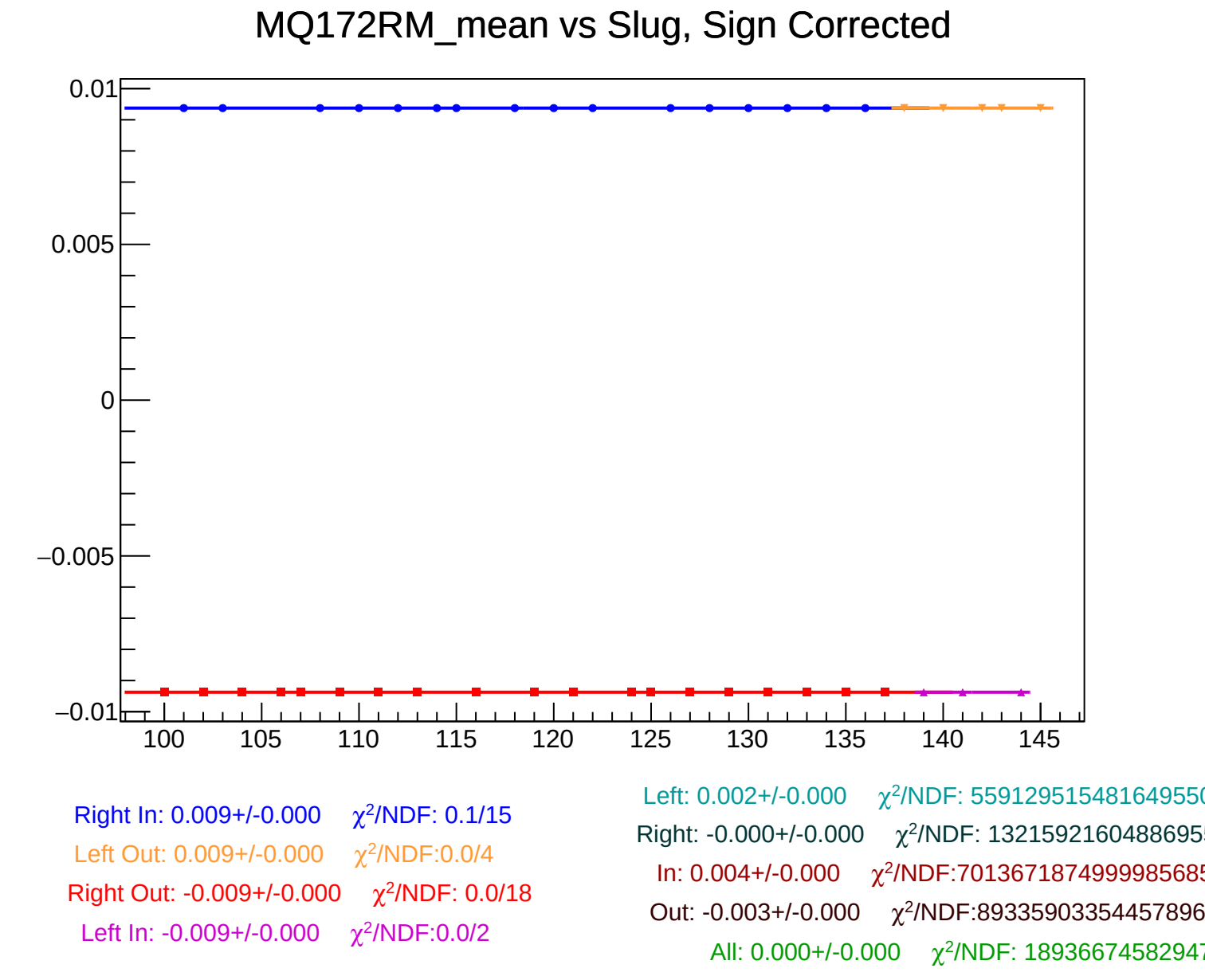
Left: 161.961+/-0.000 $\chi^2$/NDF: 6119252839331661

Right: -14.307+/-0.000 $\chi^2$/NDF: 1446386008808569

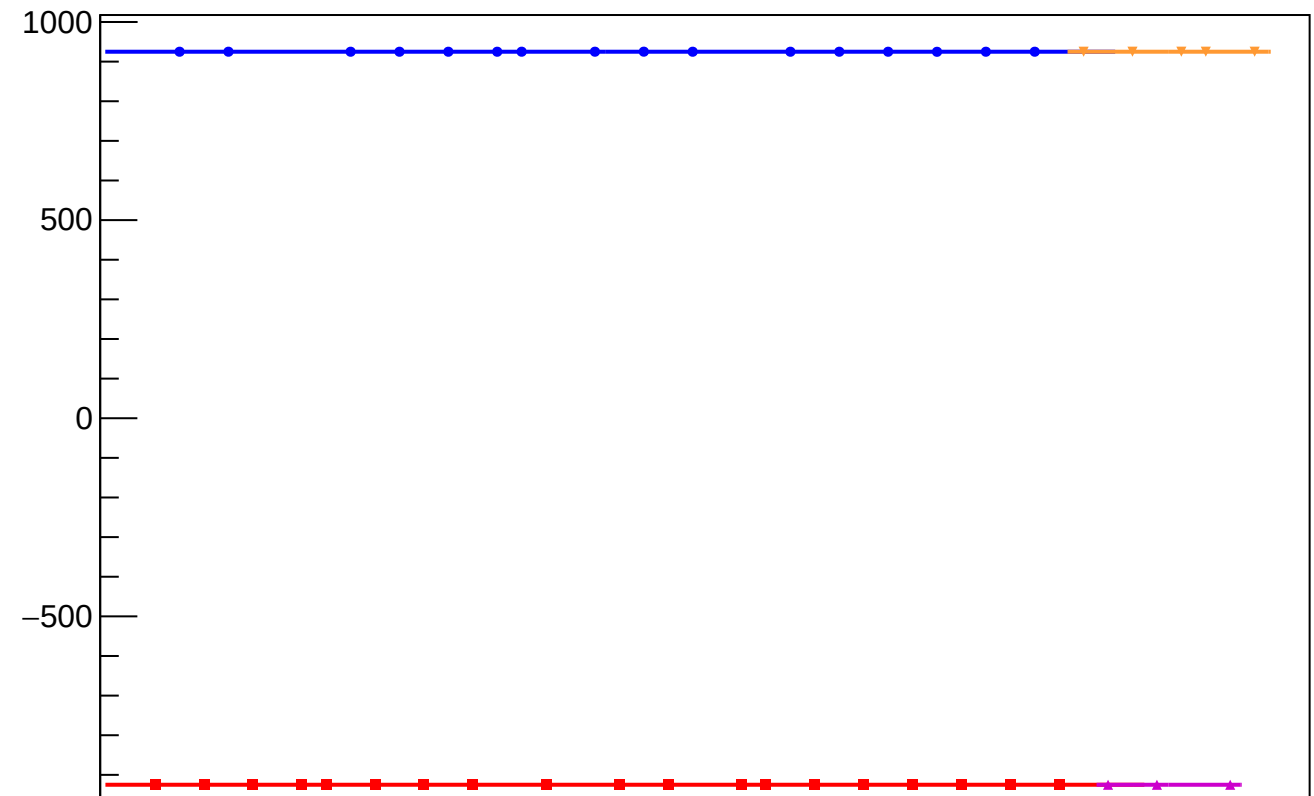
In: 452.690+/-0.000 $\chi^2$/NDF:76762533613993732

Out: -327.467+/-0.000 $\chi^2$/NDF:977675928942272

All: 39.113+/-0.000 $\chi^2$/NDF: 2072473132286


MQ172RM_mean vs Slug, Sign Corrected
0.01
0.005
0
−0.005
−0.01
100
105
110
115
120
125
130
135
140
145
Right In: 0.009+/-0.000 χ²/NDF: 0.1/15
Left Out: 0.009+/-0.000 χ²/NDF:0.0/4
Right Out: -0.009+/-0.000 χ²/NDF: 0.0/18
Left In: -0.009+/-0.000 χ²/NDF:0.0/2
Left: 0.002+/-0.000 χ²/NDF: 559129515481649550
Right: -0.000+/-0.000 χ²/NDF: 1321592160488695
In: 0.004+/-0.000 χ²/NDF:701367187499998568
Out: -0.003+/-0.000 χ²/NDF:89335903354457896
All: 0.000+/-0.000 χ²/NDF: 18936674582947

# HacR_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected




Right In: 924.966+/-0.000 $\chi^2$/NDF: 254437050808765880053303712153 6.0/15

Left Out: 924.991+/-0.000 $\chi^2$/NDF:126931852570878267114938957824.0/4

Right Out: -924.974+/-0.000 $\chi^2$/NDF: 124198152111689090023635183206 4.0/18

Left In: -925.005+/-0.000 $\chi^2$/NDF:628200033317452715087091466 24.0/2

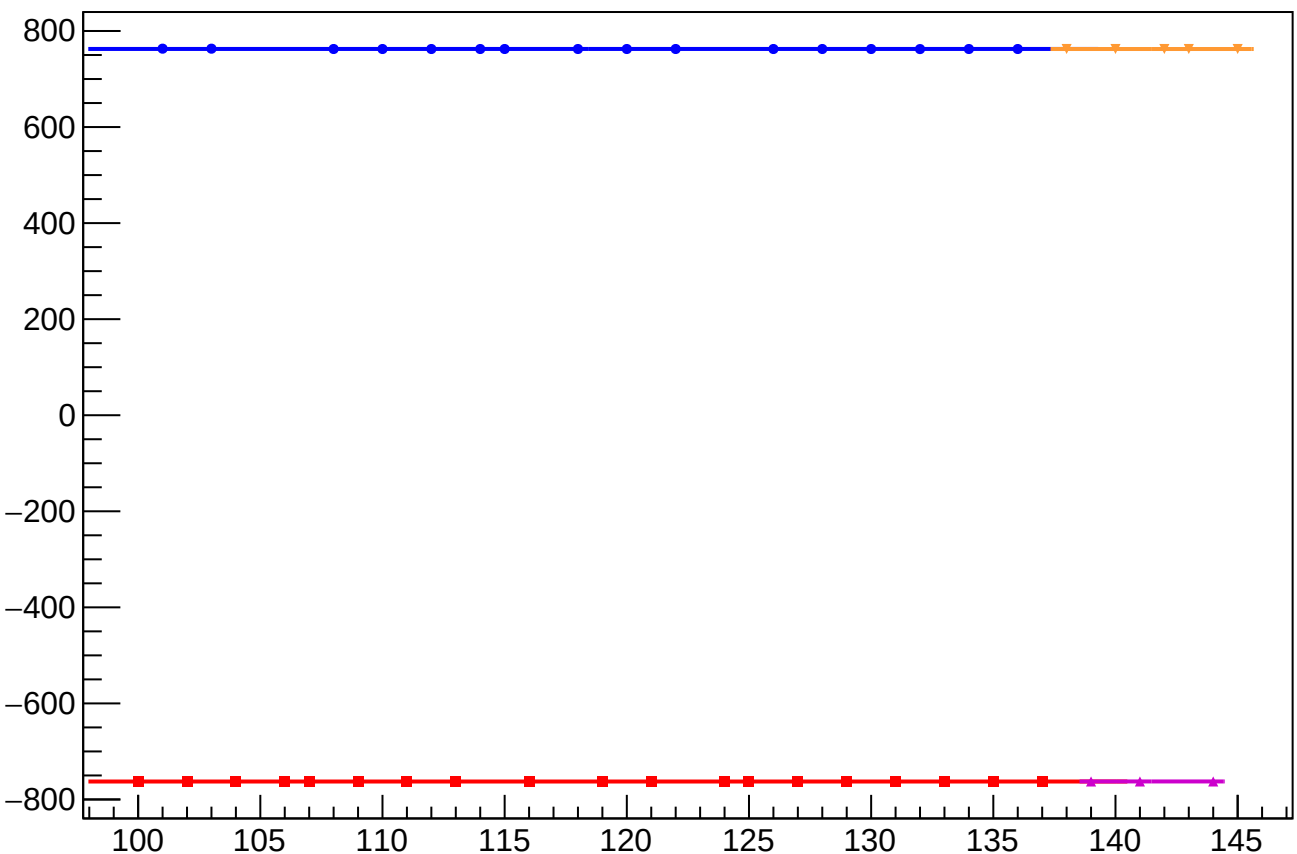
Left: 152.745+/-0.000 $\chi^2$/NDF: 5443161307137392

Right: -13.534+/-0.000 $\chi^2$/NDF: 128650155911450

In: 426.897+/-0.000 $\chi^2$/NDF:6827671887195419

Out: -308.858+/-0.000 $\chi^2$/NDF:869661983112838

All: 36.858+/-0.000 $\chi^2$/NDF: 184341998672




Right In: 762.611+/-0.000 $\chi^2$/NDF: 52161453489138778834460408283136.0/15

Left Out: 762.489+/-0.000 $\chi^2$/NDF:1434655491817232763288603852 8.0/4

Right Out: -762.618+/-0.000 $\chi^2$/NDF: 5313433853263039584129784374886 4.0/18

Left In: -762.489+/-0.000 $\chi^2$/NDF:702366001595765299588209049 6.0/2

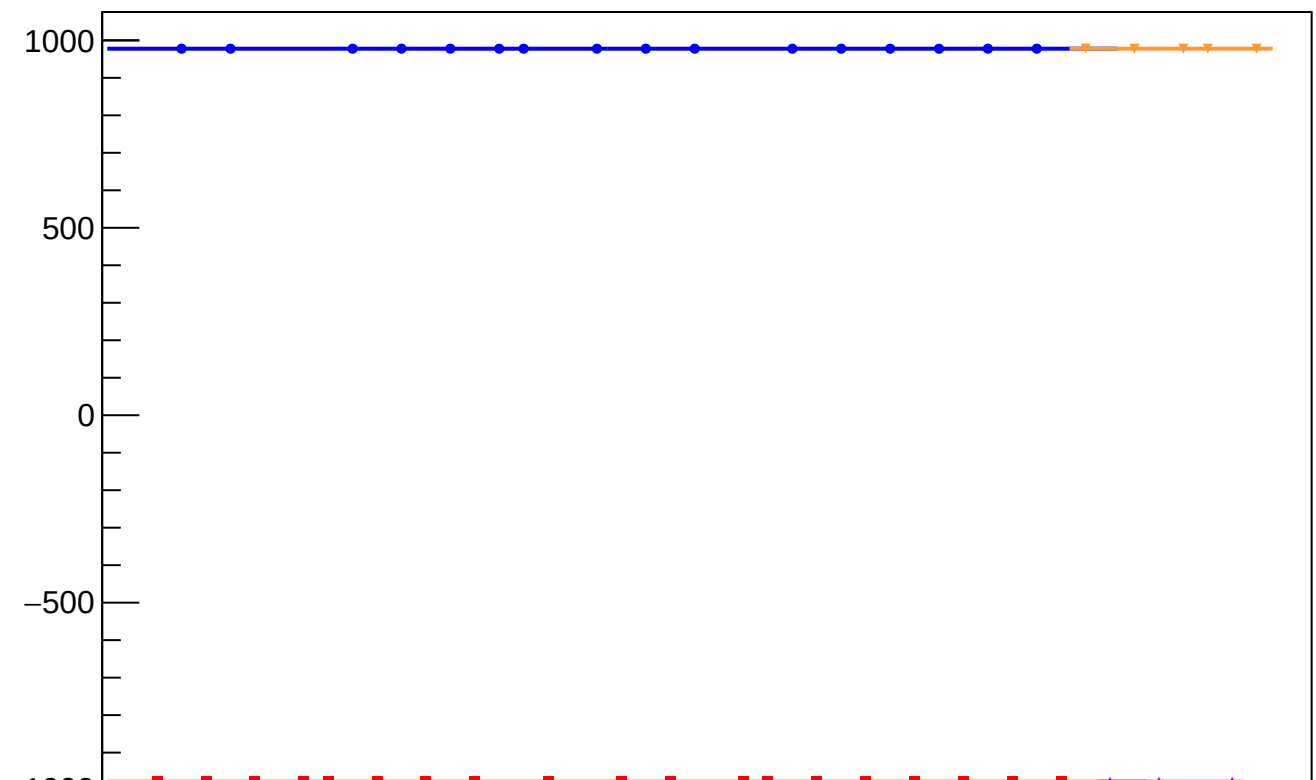
Left: 125.916+/-0.000 $\chi^2$/NDF: 3698597270865700

Right: -11.159+/-0.000 $\chi^2$/NDF: 8745102746392638

In: 352.007+/-0.000 $\chi^2$/NDF:46402290458815796

Out: -254.693+/-0.000 $\chi^2$/NDF:591049956287423

All: 30.383+/-0.000 $\chi^2$/NDF: 1252934222733




Right In: 977.749+/-0.000 $\chi^2$/NDF: 19595783310723160744482245181440.0/15

Left Out: 977.776+/-0.000 $\chi^2$/NDF:39503642765172996655303937228 8.0/4

Right Out: -977.747+/-0.000 $\chi^2$/NDF: 178222687781691472632796623667 2.0/18

Left In: -977.773+/-0.000 $\chi^2$/NDF:54367464477098981450588356608 0.0/2

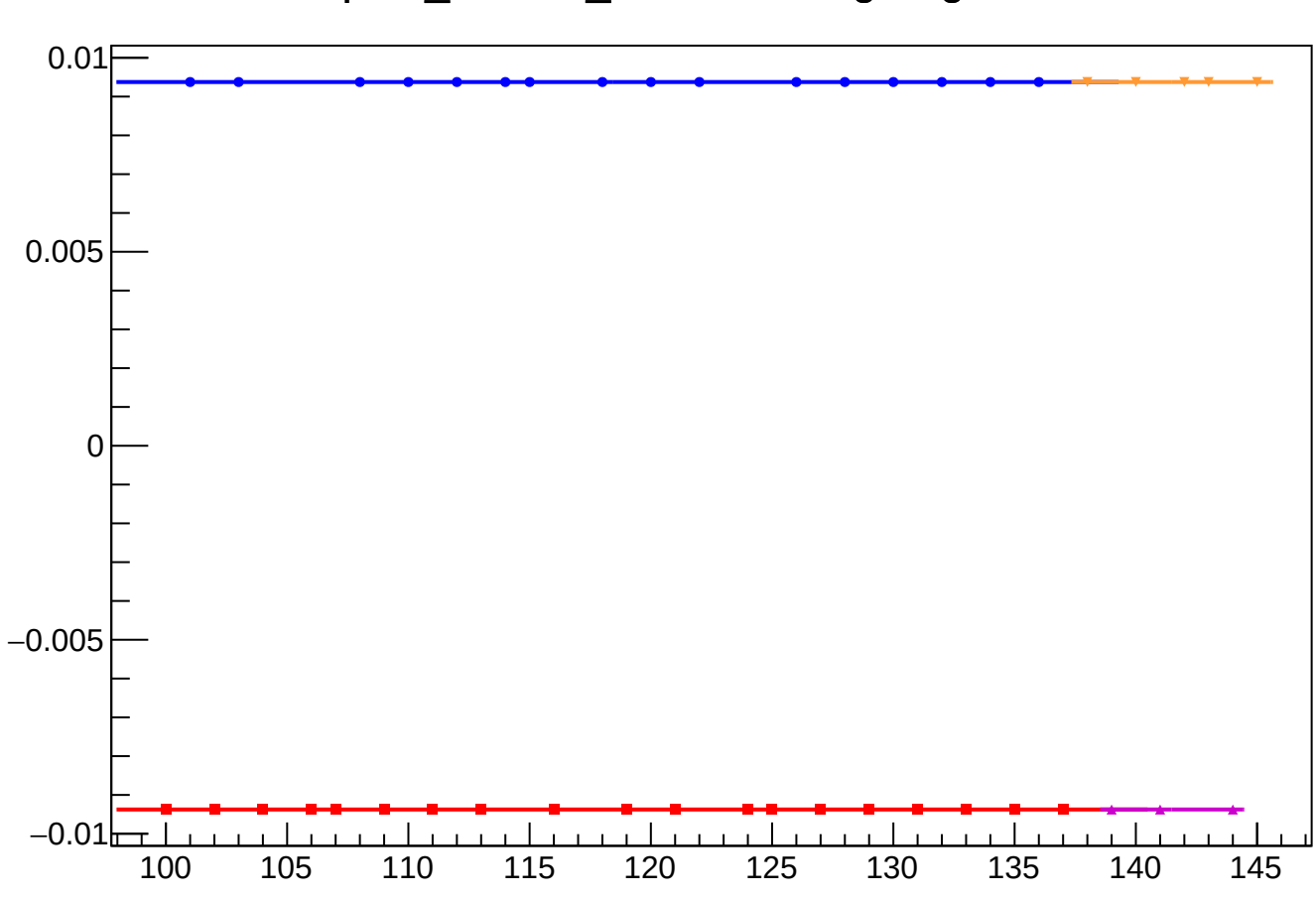
Left: 161.469+/-0.000 $\chi^2$/NDF: 6082015961621666

Right: -14.301+/-0.000 $\chi^2$/NDF: 143750377983115

In: 451.262+/-0.000 $\chi^2$/NDF:76290174946847487

Out: -326.476+/-0.000 $\chi^2$/NDF:971738804893934

All: 38.967+/-0.000 $\chi^2$/NDF: 205978734693




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/4

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.0/2

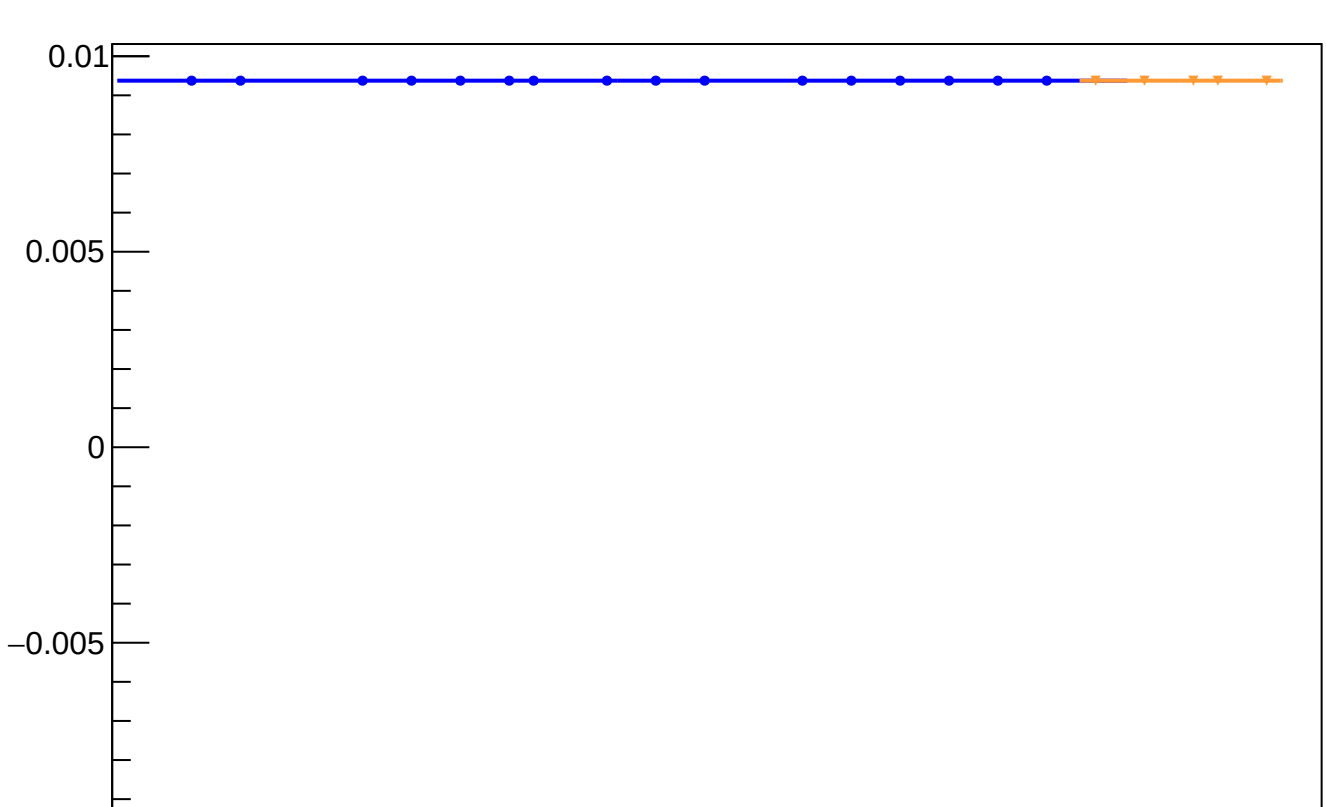
Left: 0.002+/-0.000 $\chi^2$/NDF: 559129515481649550

Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: 0.004+/-0.000 $\chi^2$/NDF:701367187499998568

Out: -0.003+/-0.000 $\chi^2$/NDF:89335903354457896

All: 0.000+/-0.000 $\chi^2$/NDF: 18936674582947




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/15

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.0/4

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.0/18

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.0/2

Left: 0.002+/-0.000 $\chi^2$/NDF: 559129515481649550

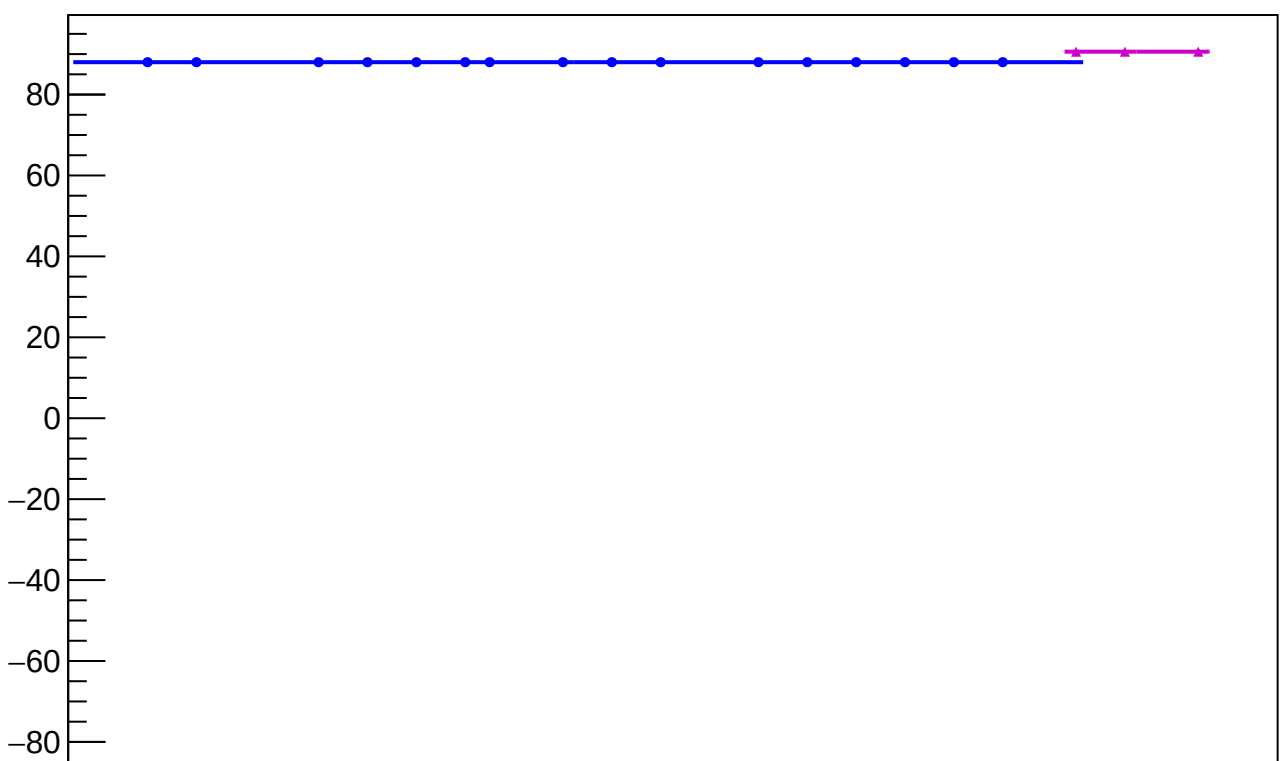
Right: -0.000+/-0.000 $\chi^2$/NDF: 1321592160488695

In: 0.004+/-0.000 $\chi^2$/NDF:701367187499998568

Out: -0.003+/-0.000 $\chi^2$/NDF:89335903354457896

All: 0.000+/-0.000 $\chi^2$/NDF: 18936674582947

# 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:2526980.2/4

Right Out: -88.003+/-0.000 $\chi^2$/NDF: 732270589413796643601760911360/18

Left In: 90.599+/-0.000 $\chi^2$/NDF:385317.5/2

Left: -14.961+/-0.000 $\chi^2$/NDF: 5221791417890756

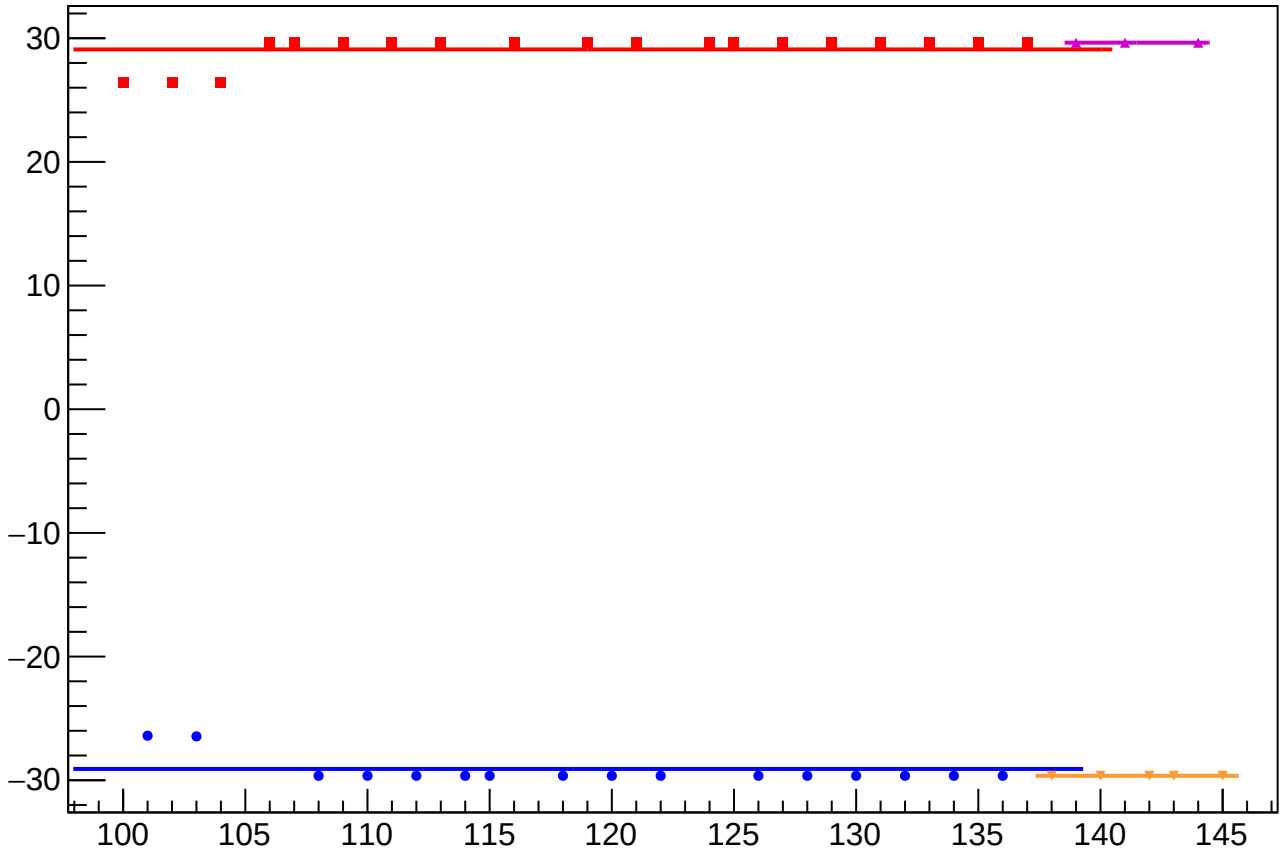
Right: -1.289+/-0.000 $\chi^2$/NDF: 1164502782894649

In: 88.700+/-0.000 $\chi^2$/NDF:134716155076880973

Out: -88.868+/-0.000 $\chi^2$/NDF:1712437271530696

All: -5.432+/-0.000 $\chi^2$/NDF: 1695202815334

# HWienAngle_mean vs Slug, Sign Corrected




Right In: -29.085+/-0.000 $\chi^2$/NDF: 109436788525160987735503641195315 2.0/15

Left Out: -29.641+/-0.000 $\chi^2$/NDF:149000.0/4

Right Out: 29.093+/-0.000 $\chi^2$/NDF: 112523815674969284979780589977600 0.0/18

Left In: 29.641+/-0.000 $\chi^2$/NDF:10753.8/2

Left: -4.895+/-0.000 $\chi^2$/NDF: 55891642035521957

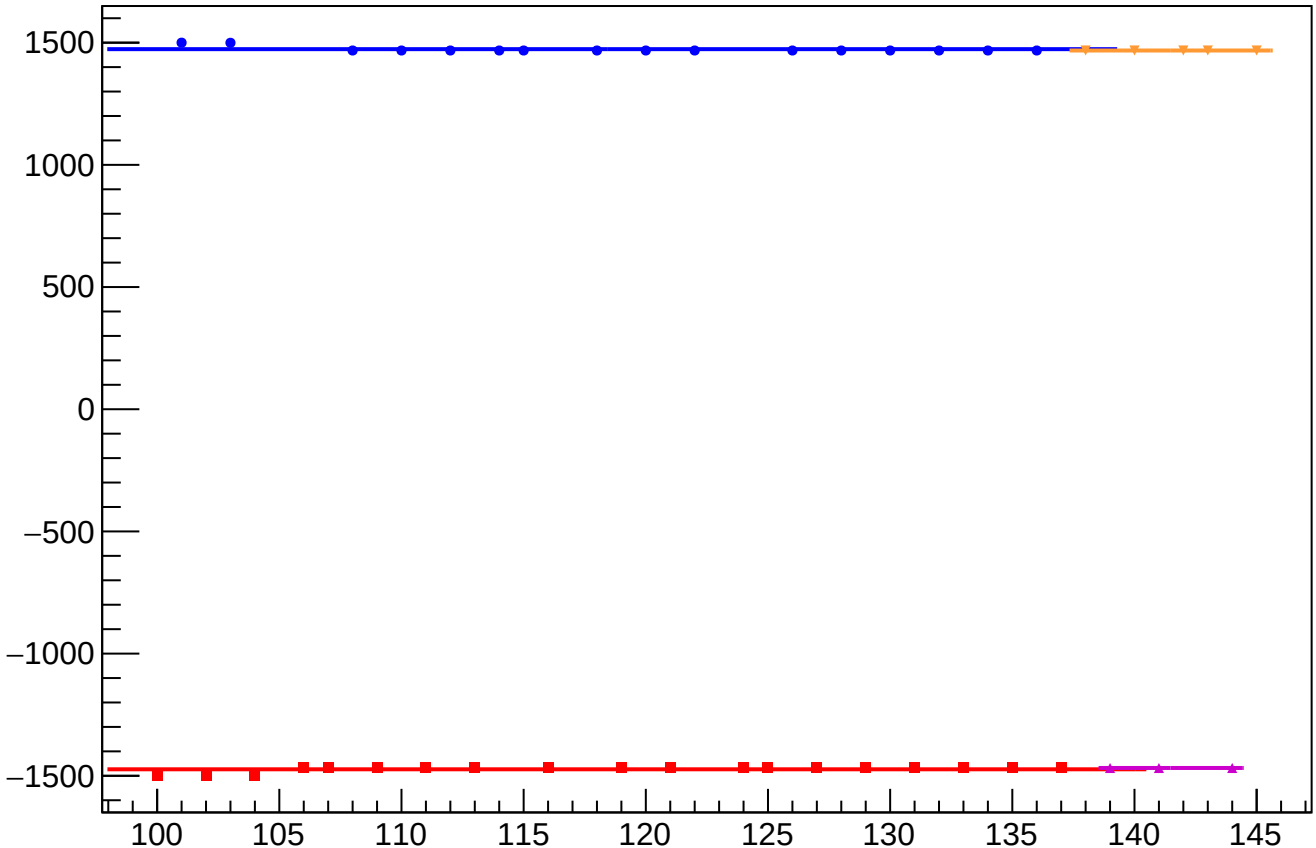
Right: 0.429+/-0.000 $\chi^2$/NDF: 12746007522578358

In: -13.275+/-0.000 $\chi^2$/NDF:689121015786143 81

Out: 9.532+/-0.000 $\chi^2$/NDF:877716313835564939

All: -1.184+/-0.000 $\chi^2$/NDF: 1846437101611

# psub_pl_pos_mean vs Slug, Sign Corrected




Right In: 1473.467+/-0.000 $\chi^2$/NDF: 10689419486070617687848579370477 1584.0/15

Left Out: 1467.979+/-0.000 $\chi^2$/NDF:209690285.3/4

Right Out: -1473.393+/-0.000 $\chi^2$/NDF: 10990949973340107876106784330062 2336.0/18

Left In: -1467.979+/-0.000 $\chi^2$/NDF:43426982.2/2

Left: 242.419+/-0.000 $\chi^2$/NDF: 1370912470895322

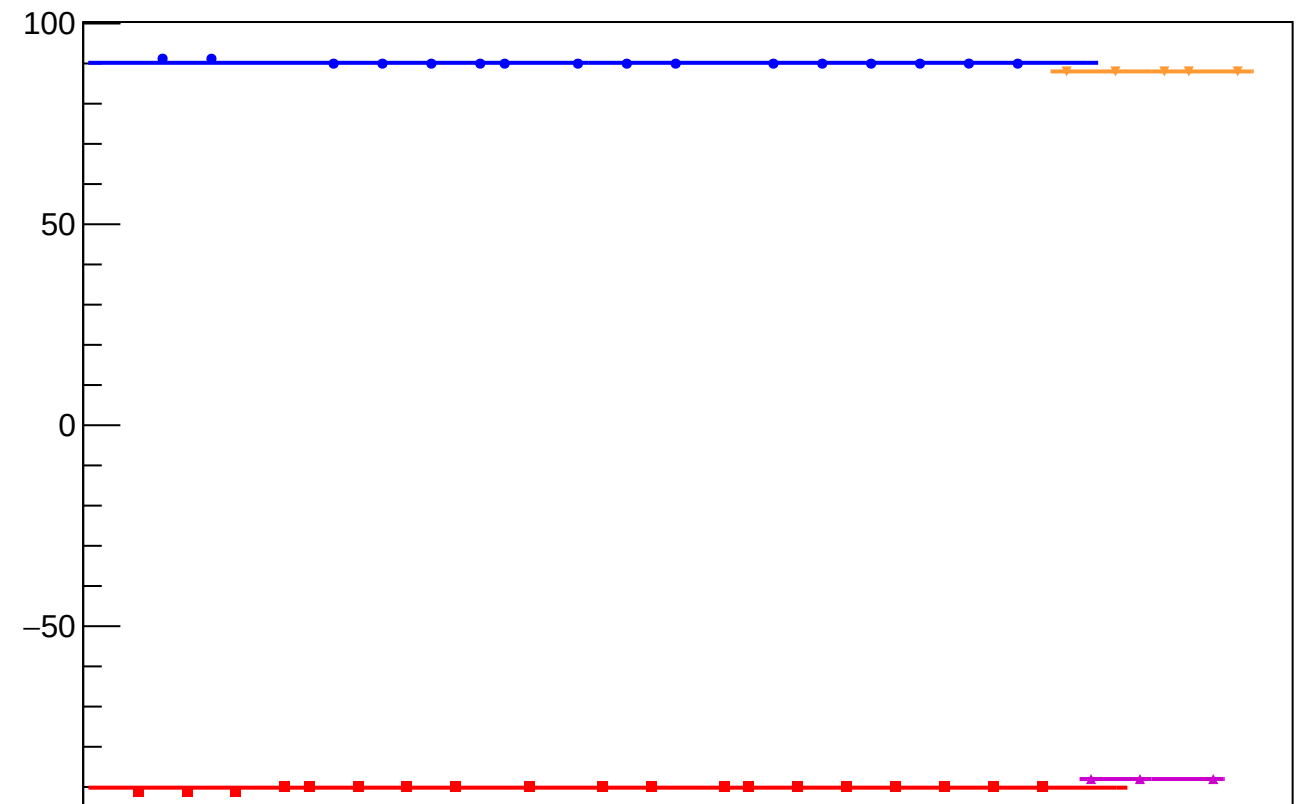
Right: -21.516+/-0.000 $\chi^2$/NDF: 3264697385914600

In: 681.539+/-0.000 $\chi^2$/NDF:17262026281041804

Out: -493.793+/-0.000 $\chi^2$/NDF:219859500466533

All: 58.472+/-0.000 $\chi^2$/NDF: 466736146694

# 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:2214364.1/4

Right Out: -90.169+/-0.000 $\chi^2$/NDF: 164815404456112641329707295440896.0/18

Left In: -88.021+/-0.000 $\chi^2$/NDF:266571.9/2

Left: 14.536+/-0.000 $\chi^2$/NDF: 49287811250809566

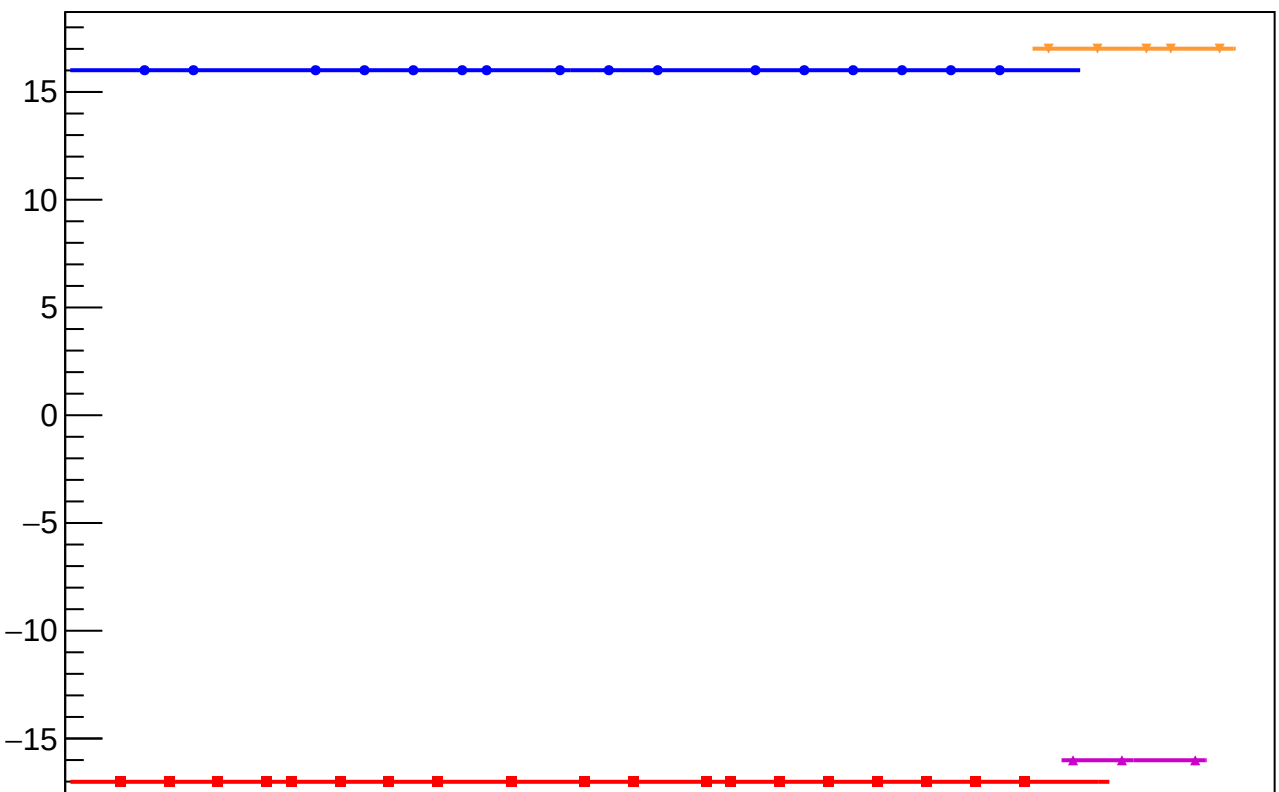
Right: -1.317+/-0.000 $\chi^2$/NDF: 1222640469973926

In: 42.198+/-0.000 $\chi^2$/NDF:633486540960213272

Out: -30.824+/-0.000 $\chi^2$/NDF:8068583378799638

All: 3.487+/-0.000 $\chi^2$/NDF: 17269730714242

# 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:9720059497836475140014080.0/4

Right Out: -17.009+/-0.000 $\chi^2$/NDF: 13878987313036743260766208.0/18

Left In: -16.009+/-0.000 $\chi^2$/NDF:24385.3/2

Left: 2.835+/-0.000 $\chi^2$/NDF: 160530387753601479

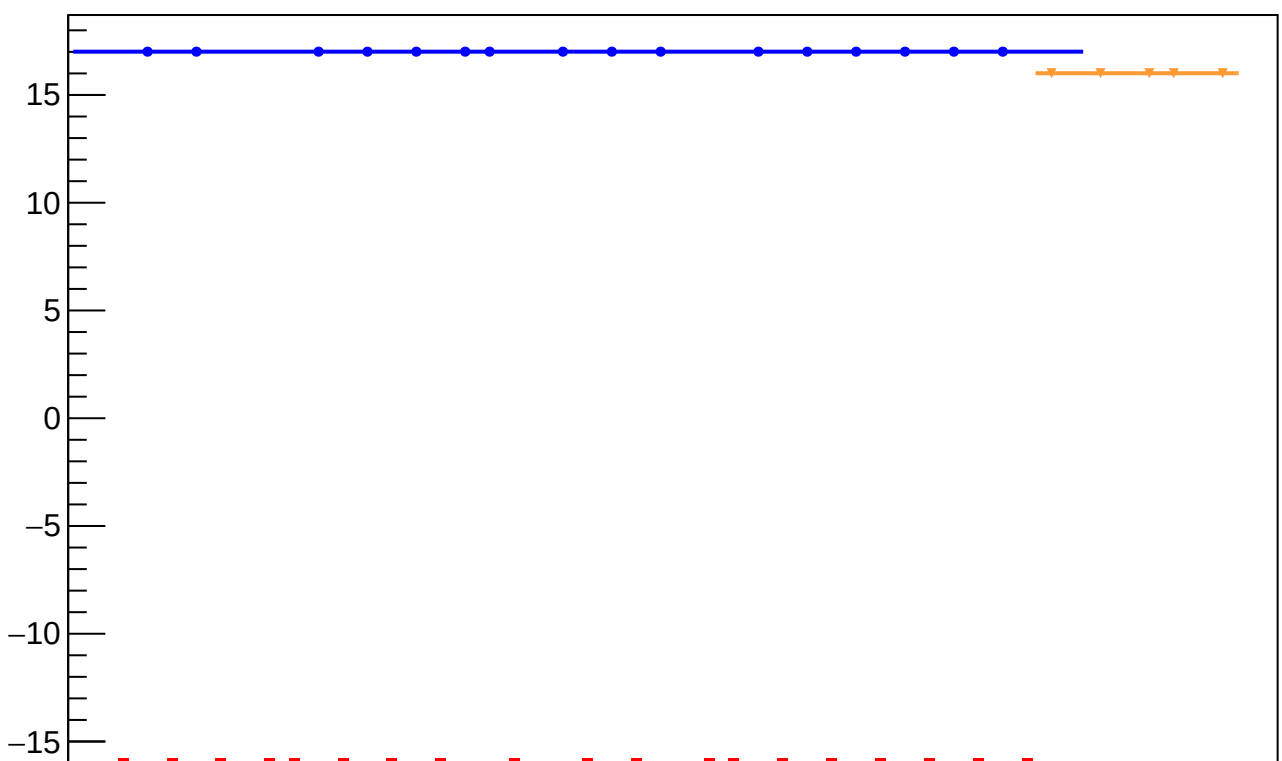
Right: -0.393+/-0.000 $\chi^2$/NDF: 38020254772992161

In: 7.404+/-0.000 $\chi^2$/NDF:193416861326660445

Out: -5.746+/-0.000 $\chi^2$/NDF:2655209193550677

All: 0.579+/-0.000 $\chi^2$/NDF: 5451105524916

# 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:34987.6/4

Right Out: -16.009+/-0.000 $\chi^2$/NDF: 39518.8/18

Left In: -17.009+/-0.000 $\chi^2$/NDF:2385.5/2

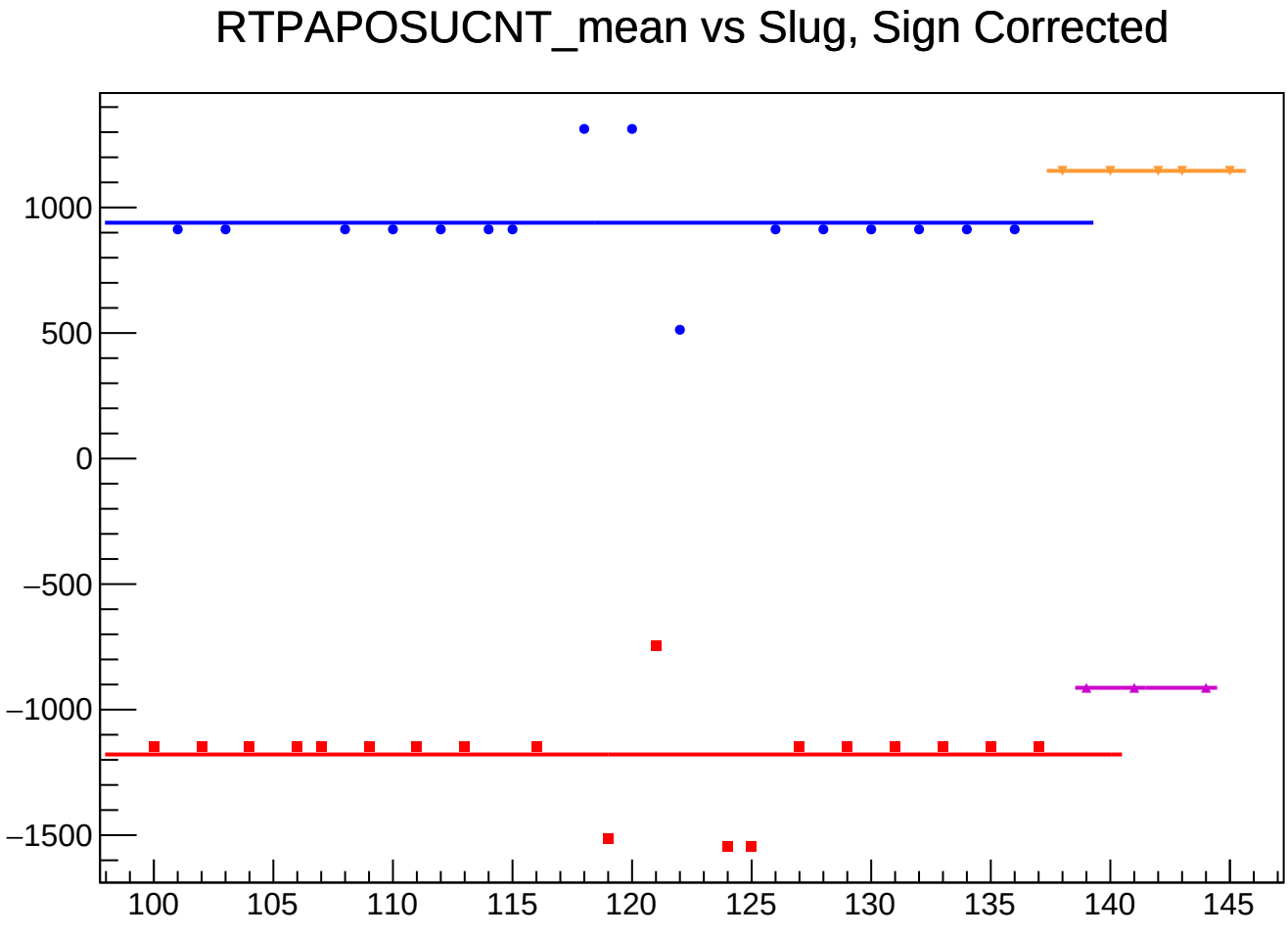
Left: 2.034+/-0.000 $\chi^2$/NDF: 171659217446947642

Right: -0.086+/-0.000 $\chi^2$/NDF: 39906944354741345

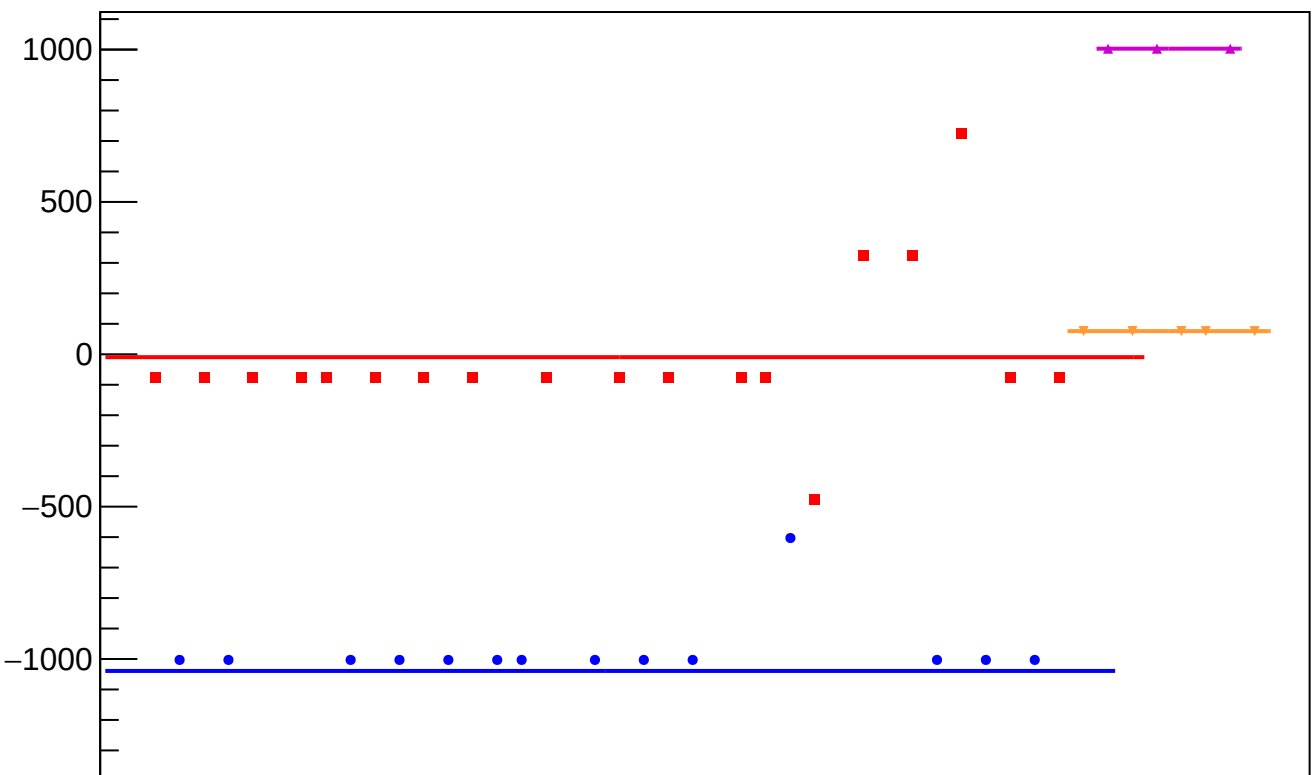
In: 7.533+/-0.000 $\chi^2$/NDF:227925380490234230

Out: -5.478+/-0.000 $\chi^2$/NDF:25593569307070671

All: 0.562+/-0.000 $\chi^2$/NDF: 57274104795698


RTPAPOSUCNT_mean vs Slug, Sign Corrected
1000
500
0
−500
−1000
−1500
100
105
110
115
120
125
130
135
140
145
Right In: 939.446+/-0.000 χ²/NDF: 21082933856092788763552768673189986304.0/15
Left Out: 1146.011+/-0.000 χ²/NDF:16886957754630624284382330880.0/4
Right Out: -1178.513+/-0.000 χ²/NDF: 22140259958123277565481106114837741568.0/18
Left In: -912.994+/-0.000 χ²/NDF:713579501333807390068310016O.0/2
Left: 286.518+/-0.000 χ²/NDF: 6742562700163244
Right: -135.024+/-0.000 χ²/NDF: 17295046801044
In: 440.712+/-0.000 χ²/NDF:70567435304392528
Out: -404.349+/-0.000 χ²/NDF:139520716039268
All: -7.272+/-0.000 χ²/NDF: 2484755494835

# RTPAPOSVCNT_mean vs Slug, Sign Corrected




Left: 462.961+/-0.000 $\chi^2$/NDF: 1366623838151627

Right In: -1039.157+/-0.000 $\chi^2$/NDF: 228703773085071640027081015550845911104.0/15

Right: -516.762+/-0.000 $\chi^2$/NDF: 46752928412988

Left Out: 76.011+/-0.000 $\chi^2$/NDF:22937732369503243469554974 72.0/4

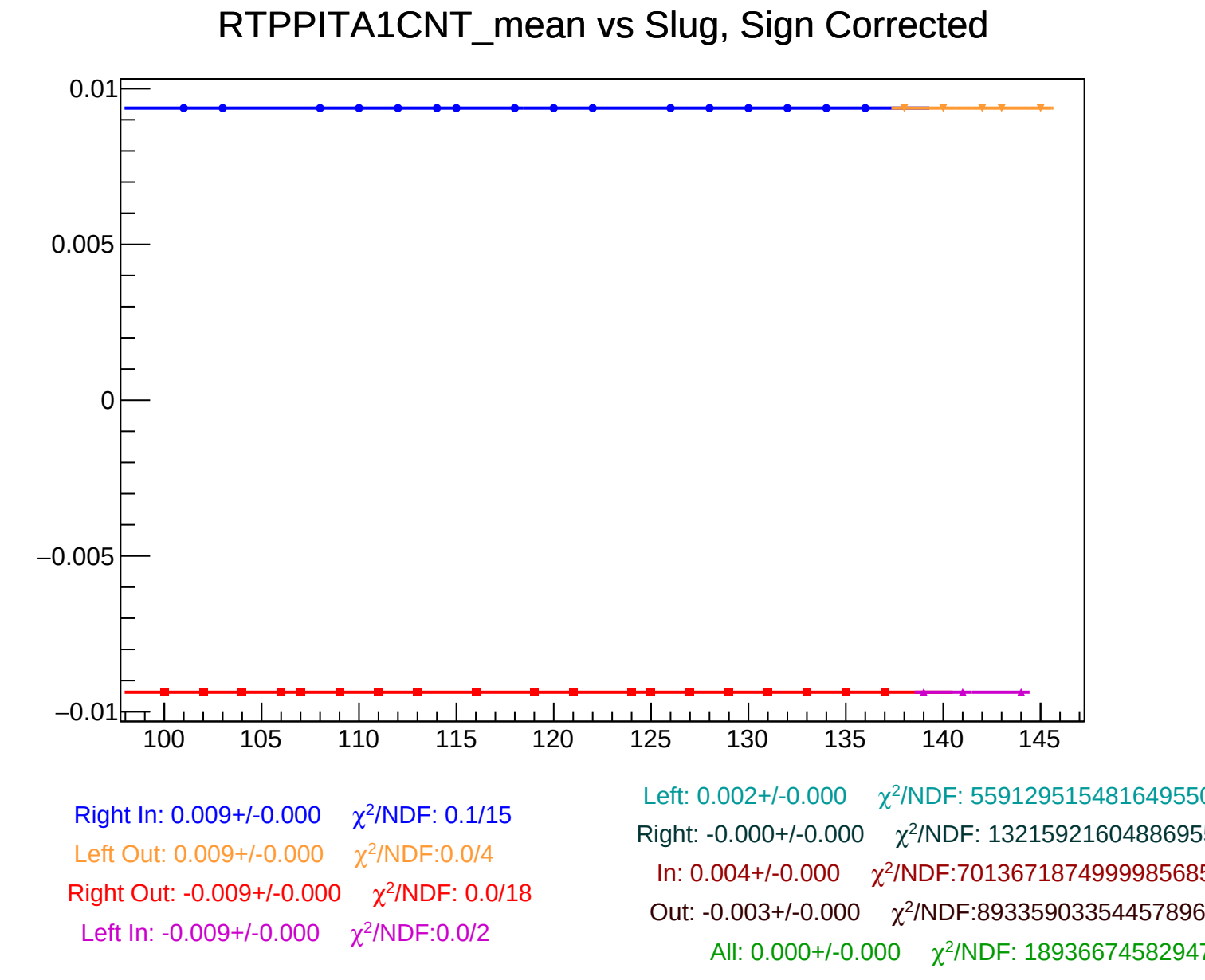
In: -489.348+/-0.000 $\chi^2$/NDF:8548572813861979

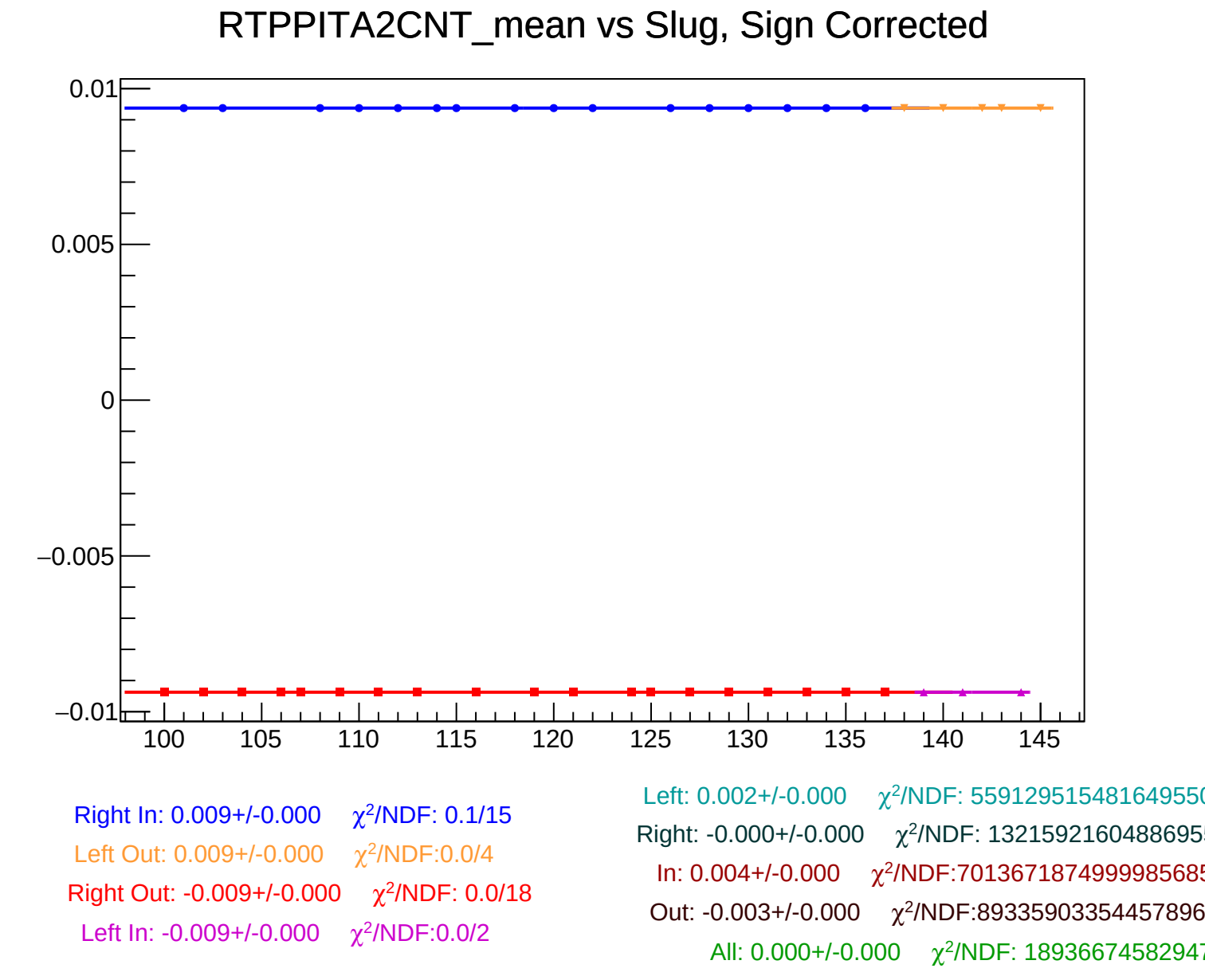
Right Out: -9.430+/-0.000 $\chi^2$/NDF: 46057394734928766474893736526051540992.0/18

Out: 19.026+/-0.000 $\chi^2$/NDF:4791244485842291

Left In: 1002.989+/-0.000 $\chi^2$/NDF:59637093996613338732167 1680.0/2

All: -219.849+/-0.000 $\chi^2$/NDF: 1041694163


RTPPITA1CNT_mean vs Slug, Sign Corrected
0.01
0.005
0
−0.005
−0.01
100
105
110
115
120
125
130
135
140
145
Right In: 0.009+/-0.000 χ²/NDF: 0.1/15
Left Out: 0.009+/-0.000 χ²/NDF:0.0/4
Right Out: -0.009+/-0.000 χ²/NDF: 0.0/18
Left In: -0.009+/-0.000 χ²/NDF:0.0/2
Left: 0.002+/-0.000 χ²/NDF: 559129515481649550
Right: -0.000+/-0.000 χ²/NDF: 1321592160488695
In: 0.004+/-0.000 χ²/NDF:701367187499998568
Out: -0.003+/-0.000 χ²/NDF:89335903354457896
All: 0.000+/-0.000 χ²/NDF: 18936674582947


RTPPITA2CNT_mean vs Slug, Sign Corrected
0.01
0.005
0
−0.005
−0.01
100
105
110
115
120
125
130
135
140
145
Right In: 0.009+/-0.000 χ²/NDF: 0.1/15
Left Out: 0.009+/-0.000 χ²/NDF:0.0/4
Right Out: -0.009+/-0.000 χ²/NDF: 0.0/18
Left In: -0.009+/-0.000 χ²/NDF:0.0/2
Left: 0.002+/-0.000 χ²/NDF: 559129515481649550
Right: -0.000+/-0.000 χ²/NDF: 1321592160488695
In: 0.004+/-0.000 χ²/NDF:701367187499998568
Out: -0.003+/-0.000 χ²/NDF:89335903354457896
All: 0.000+/-0.000 χ²/NDF: 18936674582947