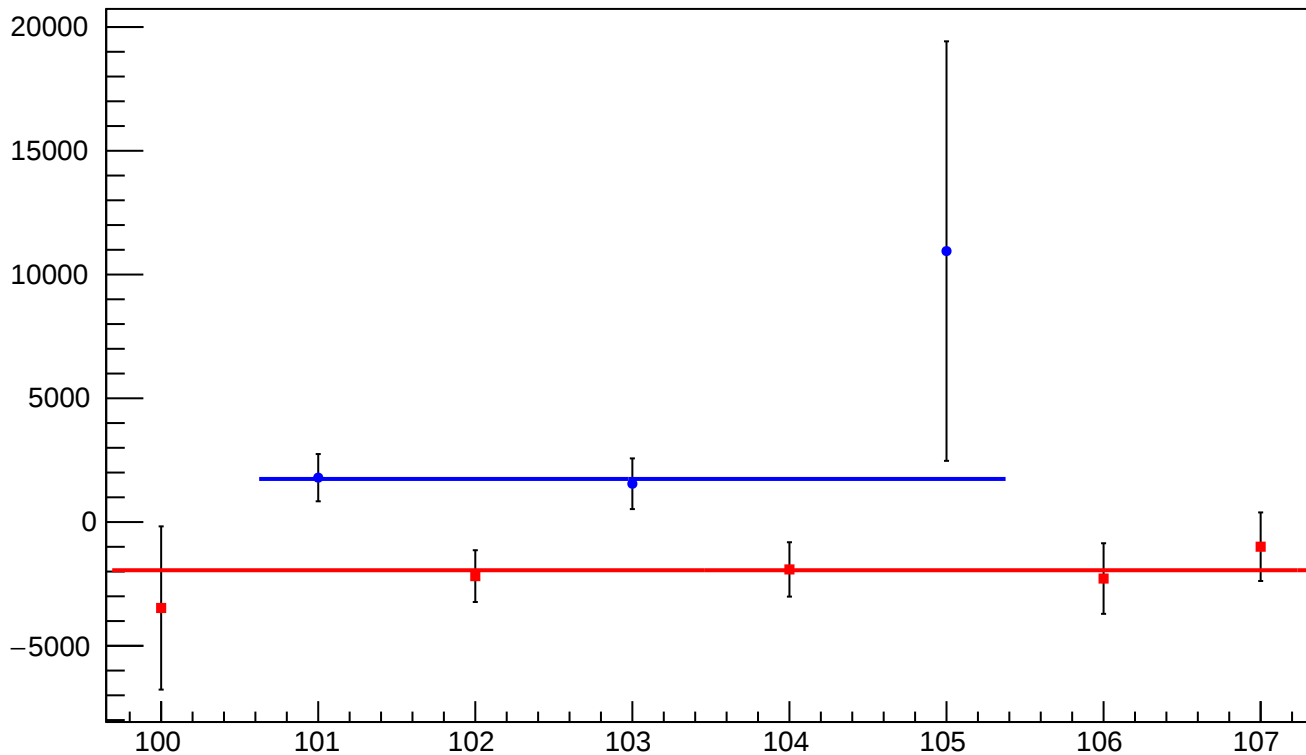


# reg\_asym\_us\_avg\_mean vs slug



Right In: 1741.888+/-695.902  $\chi^2/\text{NDF}$ : 1.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1946.427+/-592.520  $\chi^2/\text{NDF}$ : 0.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

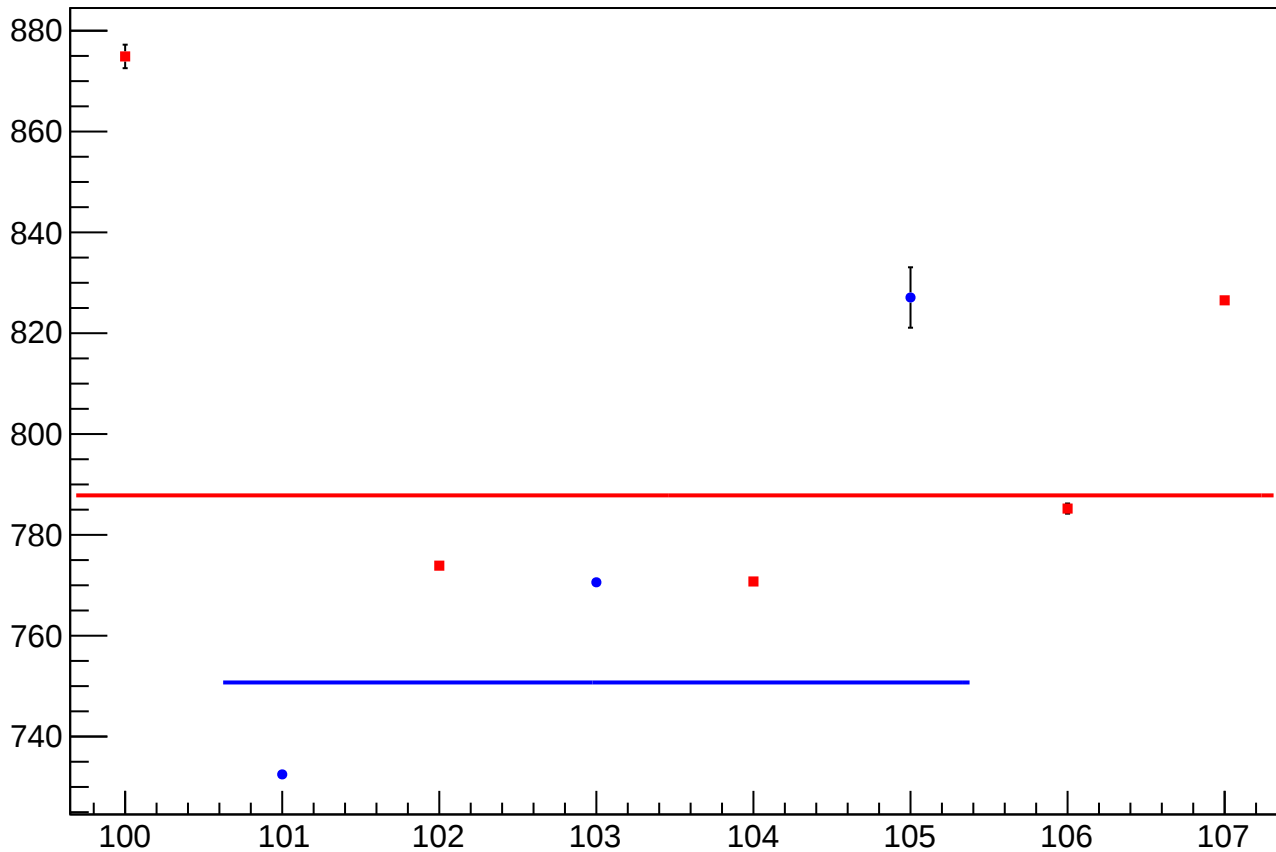
1741.888+/-695.902

$\chi^2/\text{NDF}$ : 1.2/2

-1946.427+/-592.520

$\chi^2/\text{NDF}$ : 0.8/4

# reg\_asym\_us\_avg\_rms vs slug



Right In: 750.725 $\pm$ 0.492  $\chi^2$ /NDF: 1645.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

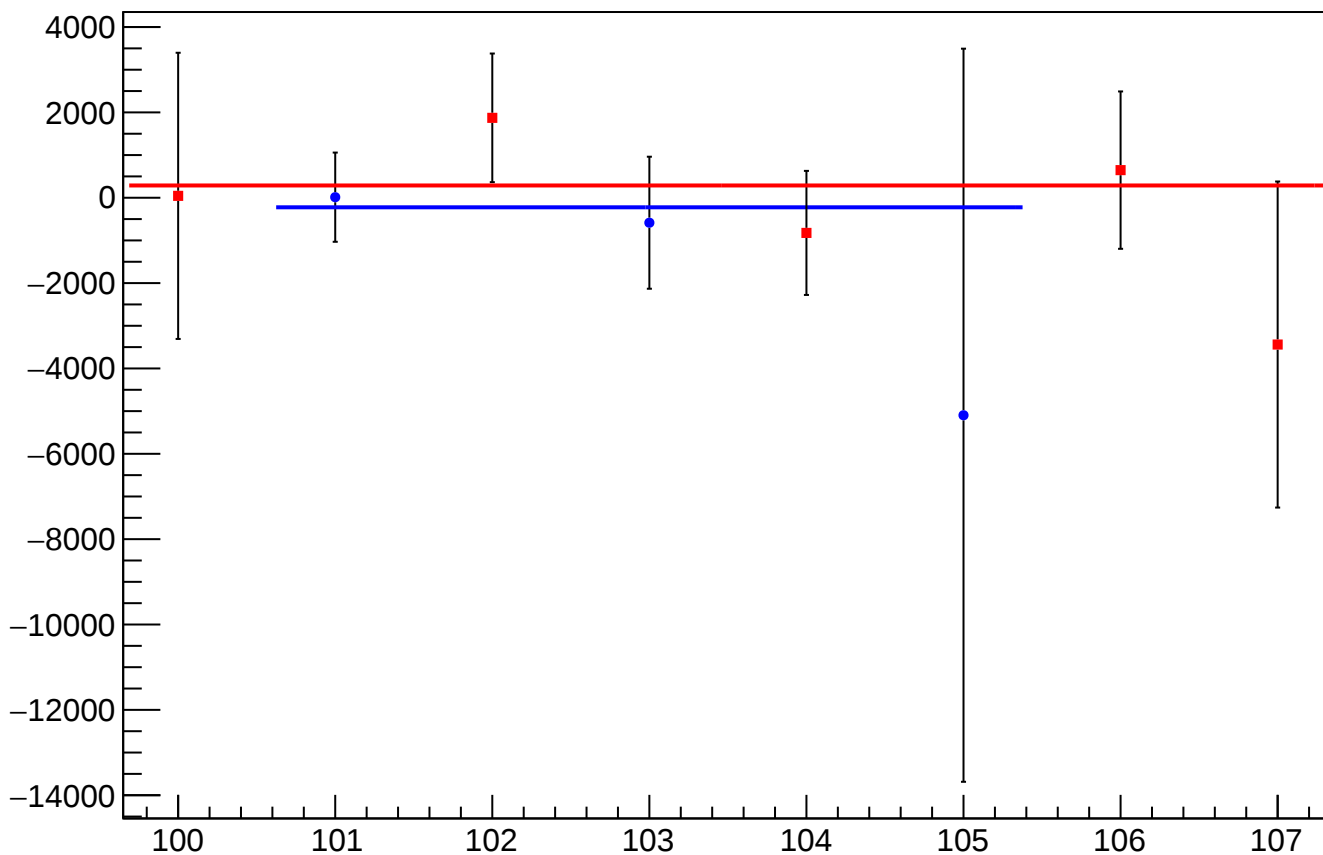
750.725 $\pm$ 0.492  $\chi^2$ /NDF: 1645.0/2

Right Out: 787.833 $\pm$ 0.419  $\chi^2$ /NDF: 3801.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

787.833 $\pm$ 0.419  $\chi^2$ /NDF: 3801.3/4

# asym\_us\_avg\_correction\_mean vs slug



Right In: -223.971+/-861.655  $\chi^2$ /NDF: 0.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

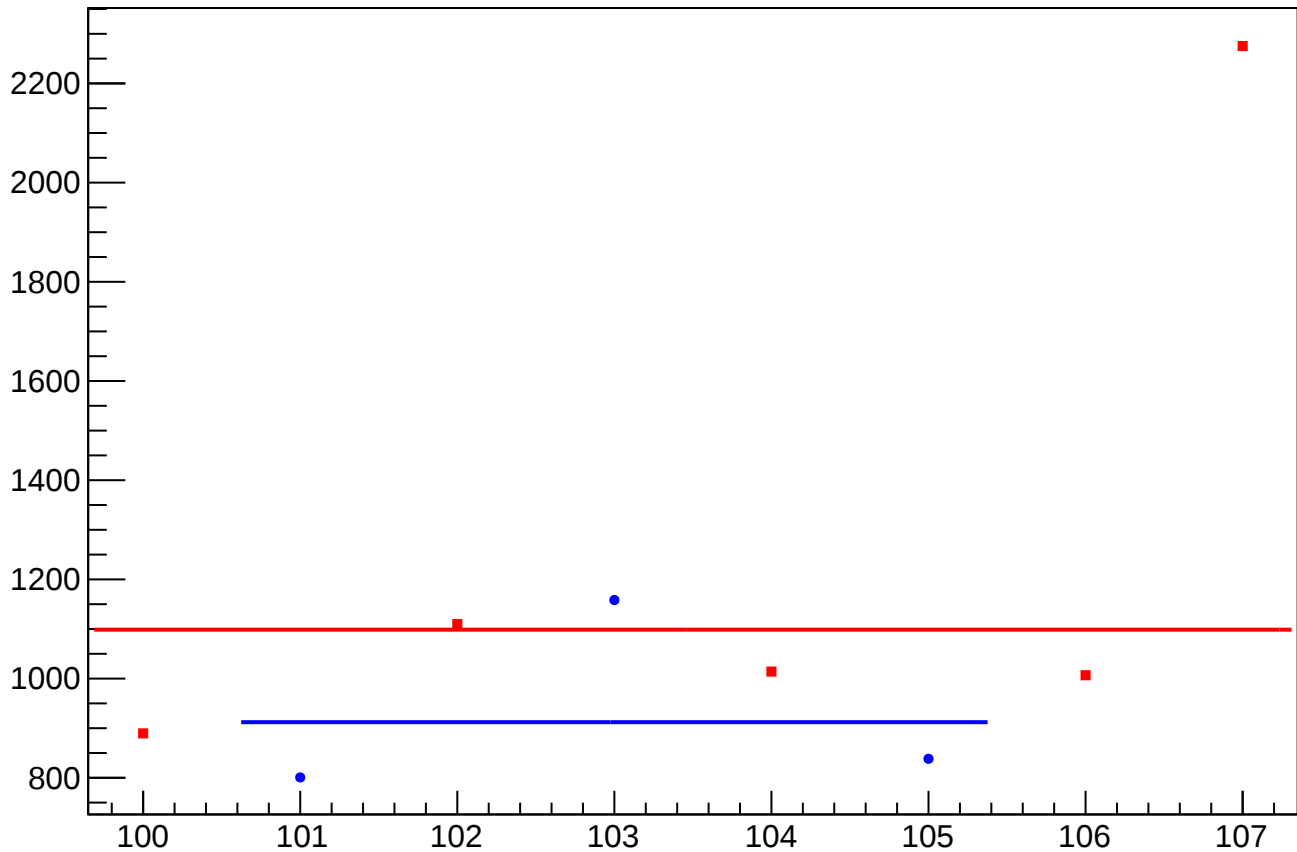
Right Out: 287.684+/-855.868  $\chi^2$ /NDF: 2.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-223.971+/-861.655  $\chi^2$ /NDF: 0.4/2

287.684+/-855.868  $\chi^2$ /NDF: 2.7/4

# asym\_us\_avg\_correction\_rms vs slug



Right In: 912.099+/-0.609  $\chi^2/\text{NDF}$ : 73582.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

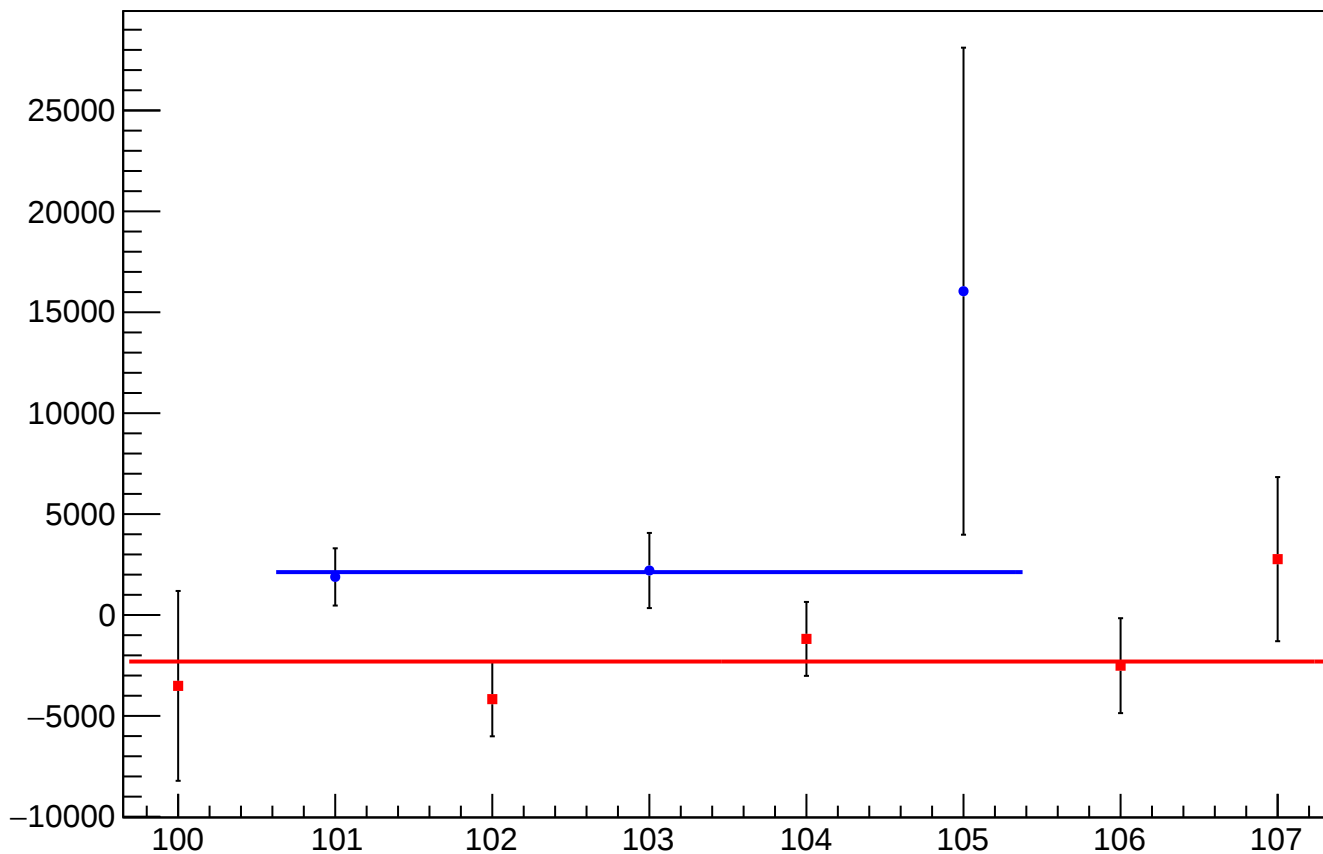
912.099+/-0.609  $\chi^2/\text{NDF}$ : 73582.5/2

Right Out: 1098.621+/-0.605  $\chi^2/\text{NDF}$ : 209415.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1098.621+/-0.605  $\chi^2/\text{NDF}$ : 209415.7/4

# asym\_us\_avg\_mean vs slug



Right In: 2124.777 $\pm$ 1123.328  $\chi^2$ /NDF: 1.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

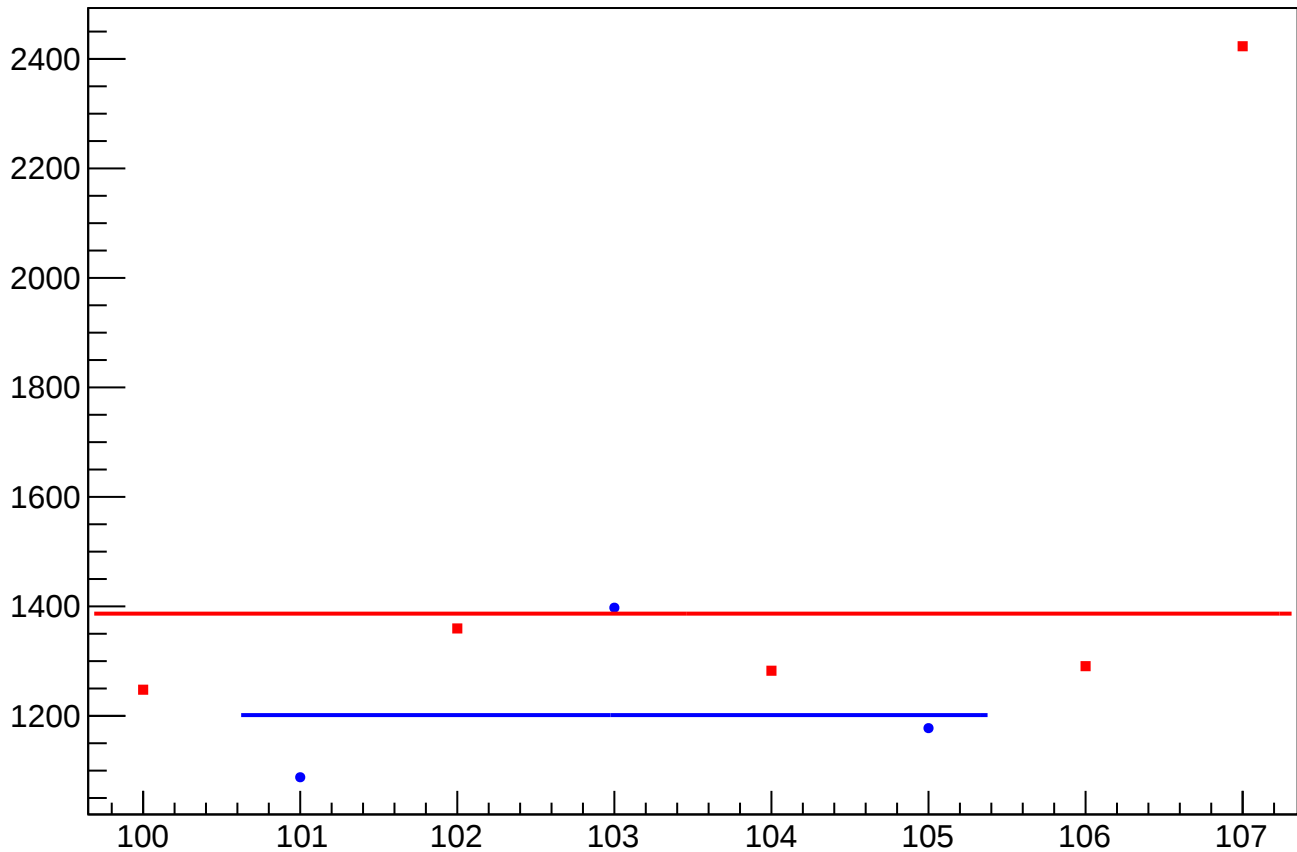
Right Out: -2305.522 $\pm$ 1066.456  $\chi^2$ /NDF: 3.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2124.777 $\pm$ 1123.328  $\chi^2$ /NDF: 1.4/2

-2305.522 $\pm$ 1066.456  $\chi^2$ /NDF: 3.0/4

# asym\_us\_avg\_rms vs slug



Right In: 1201.426+/-0.794  $\chi^2/\text{NDF}$ : 35036.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

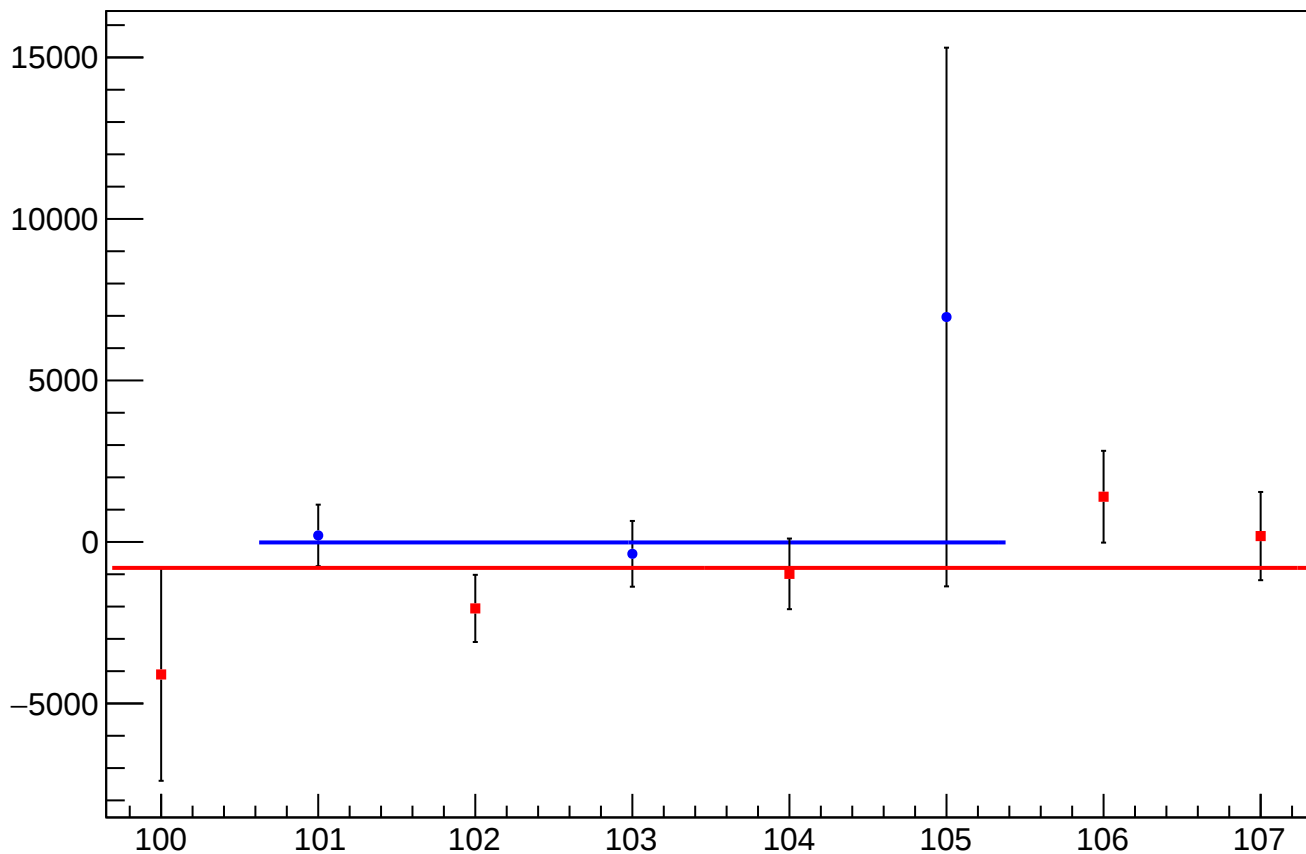
1201.426+/-0.794  $\chi^2/\text{NDF}$ : 35036.5/2

Right Out: 1386.753+/-0.754  $\chi^2/\text{NDF}$ : 141913.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1386.753+/-0.754  $\chi^2/\text{NDF}$ : 141913.4/4

# reg\_asym\_us\_dd\_mean vs slug



Right In: -14.676 $\pm$ 692.991  $\chi^2$ /NDF: 0.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

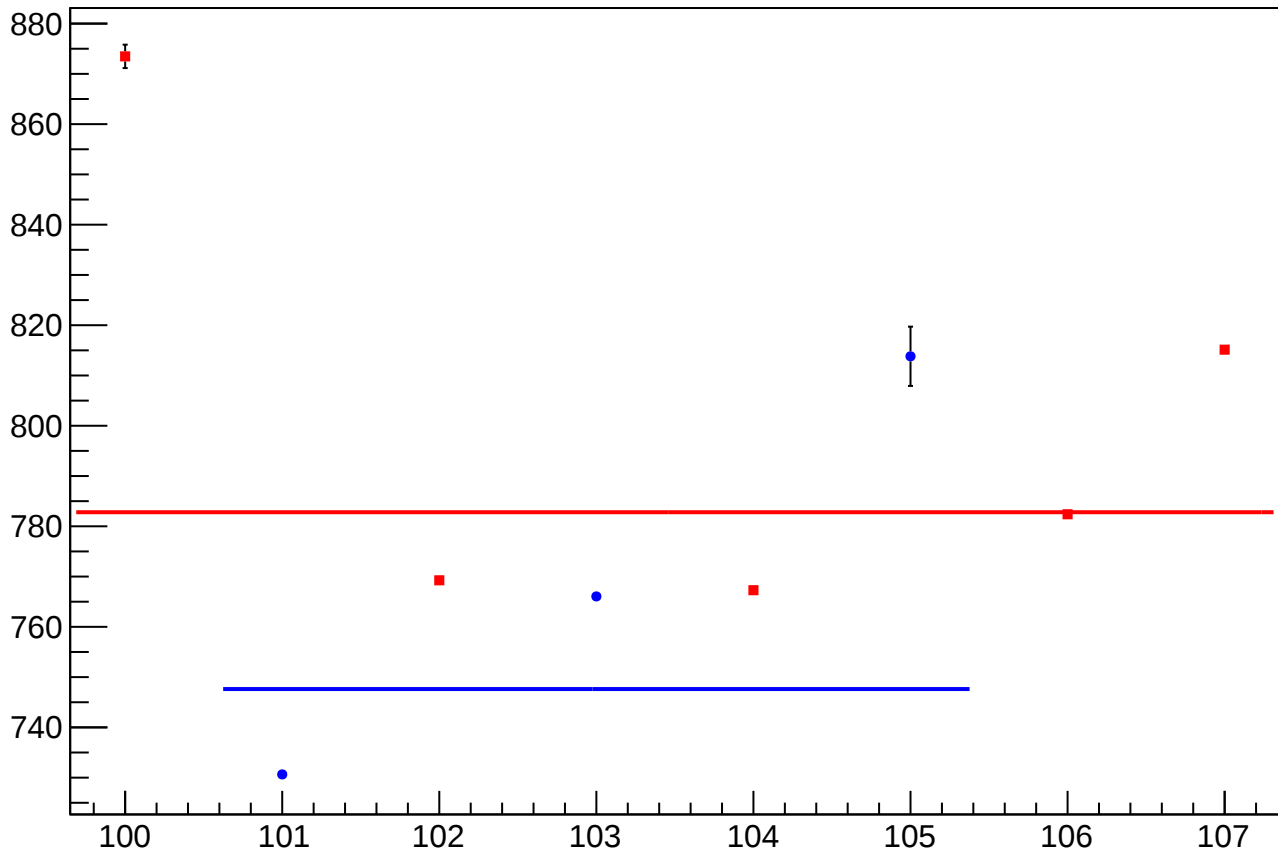
Right Out: -802.763 $\pm$ 588.699  $\chi^2$ /NDF: 5.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-14.676 $\pm$ 692.991  $\chi^2$ /NDF: 0.9/2

-802.763 $\pm$ 588.699  $\chi^2$ /NDF: 5.4/4

# reg\_asym\_us\_dd\_rms vs slug



Right In: 747.625+/-0.490  $\chi^2/\text{NDF}$ : 1417.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

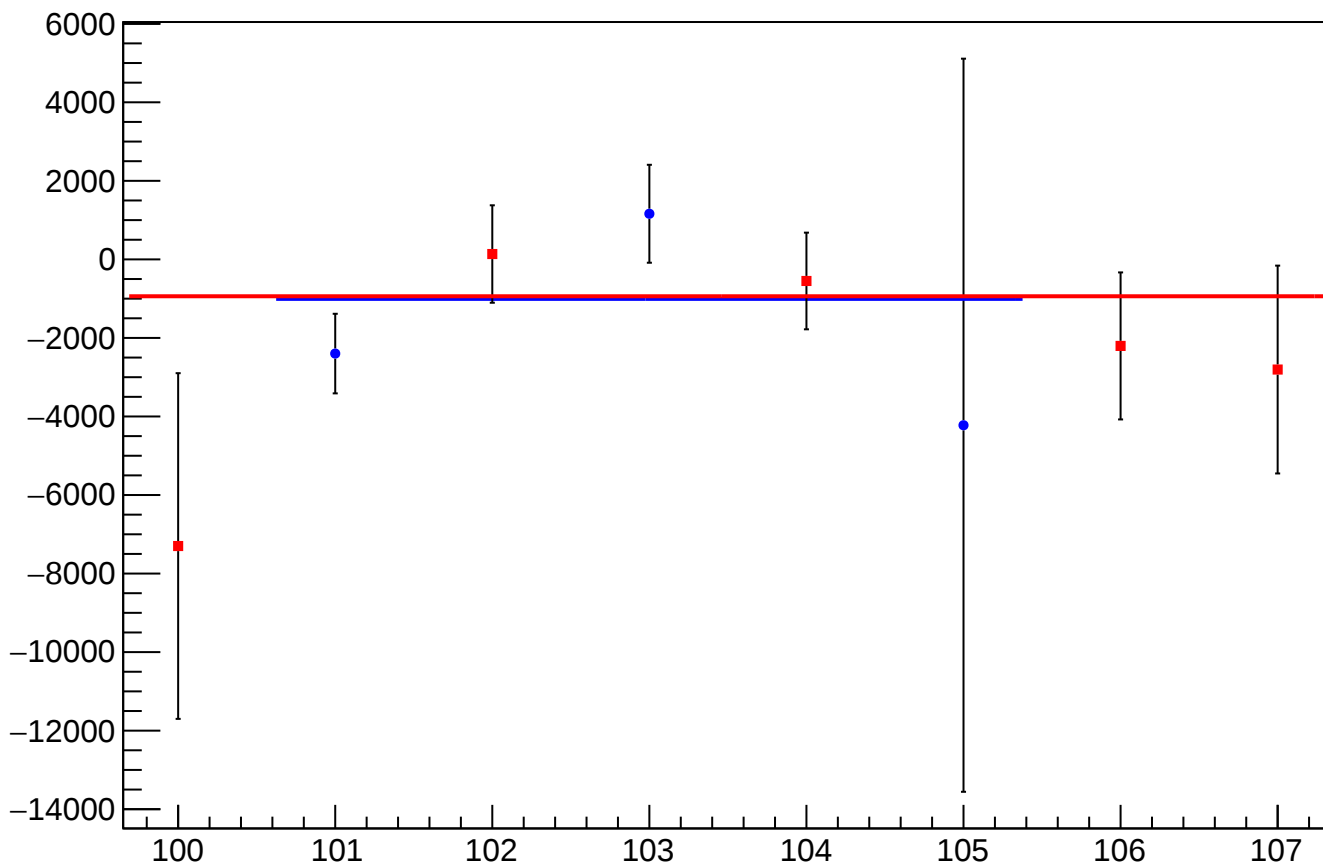
747.625+/-0.490  $\chi^2/\text{NDF}$ : 1417.3/2

Right Out: 782.800+/-0.416  $\chi^2/\text{NDF}$ : 3380.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

782.800+/-0.416  $\chi^2/\text{NDF}$ : 3380.7/4

# asym\_us\_dd\_correction\_mean vs slug



Right In: -1005.460+/-783.591  $\chi^2/\text{NDF}$ : 5.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

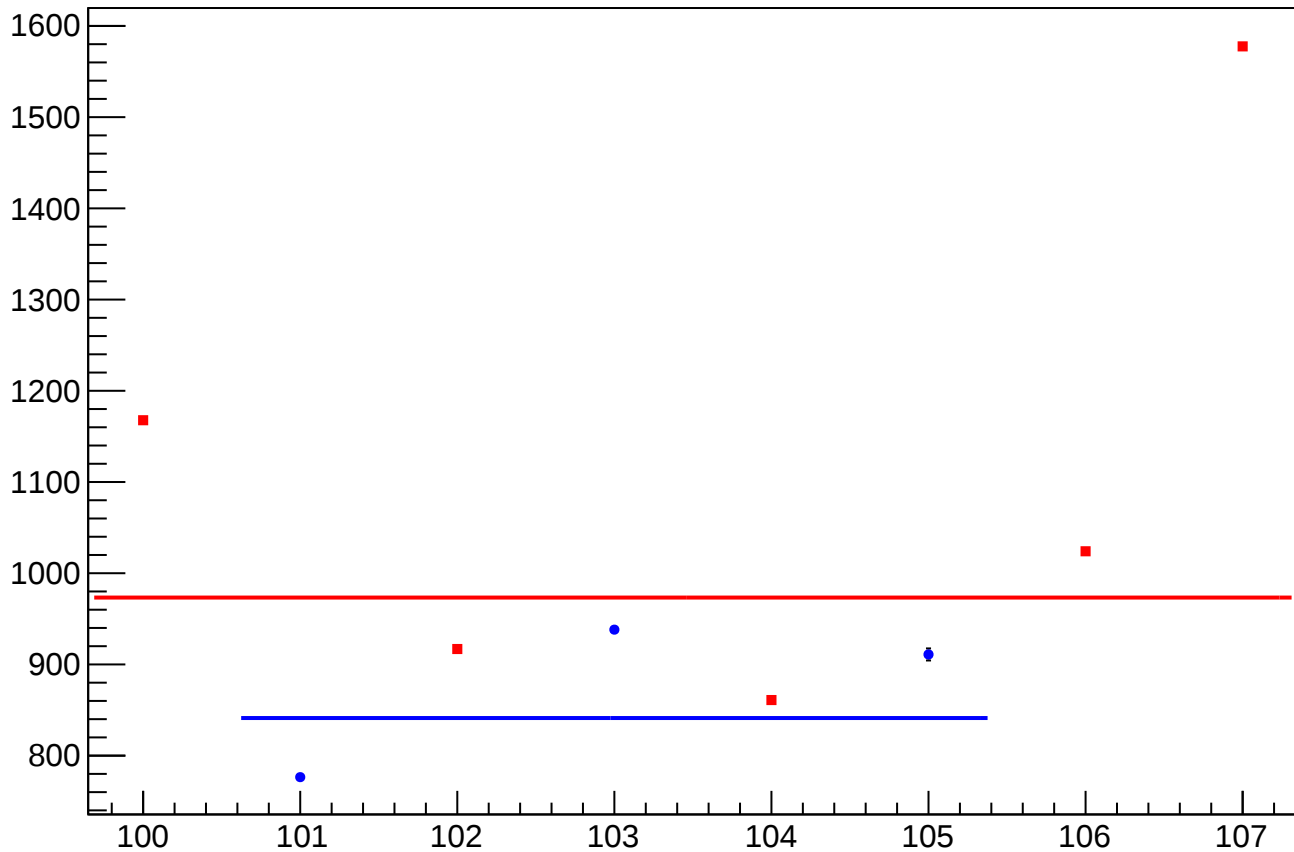
Right Out: -939.071+/-747.495  $\chi^2/\text{NDF}$ : 3.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1005.460+/-783.591  $\chi^2/\text{NDF}$ : 5.0/2

-939.071+/-747.495  $\chi^2/\text{NDF}$ : 3.9/4

# asym\_us\_dd\_correction\_rms vs slug



Right In: 841.243+/-0.554  $\chi^2/\text{NDF}$ : 20371.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

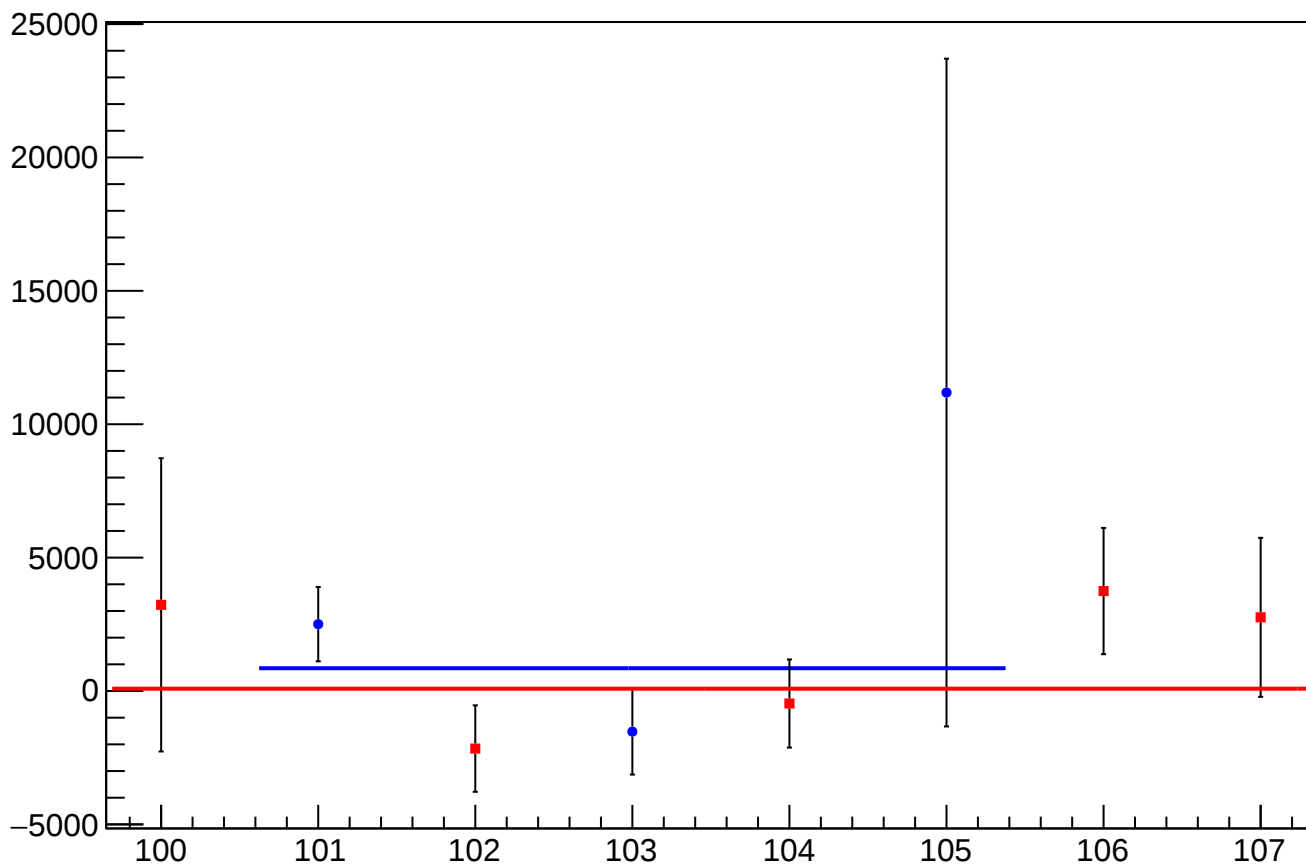
841.243+/-0.554  $\chi^2/\text{NDF}$ : 20371.6/2

Right Out: 973.319+/-0.529  $\chi^2/\text{NDF}$ : 130475.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

973.319+/-0.529  $\chi^2/\text{NDF}$ : 130475.4/4

# asym\_us\_dd\_mean vs slug



Right In: 854.012+/-1049.736  $\chi^2/\text{NDF}$ : 4.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

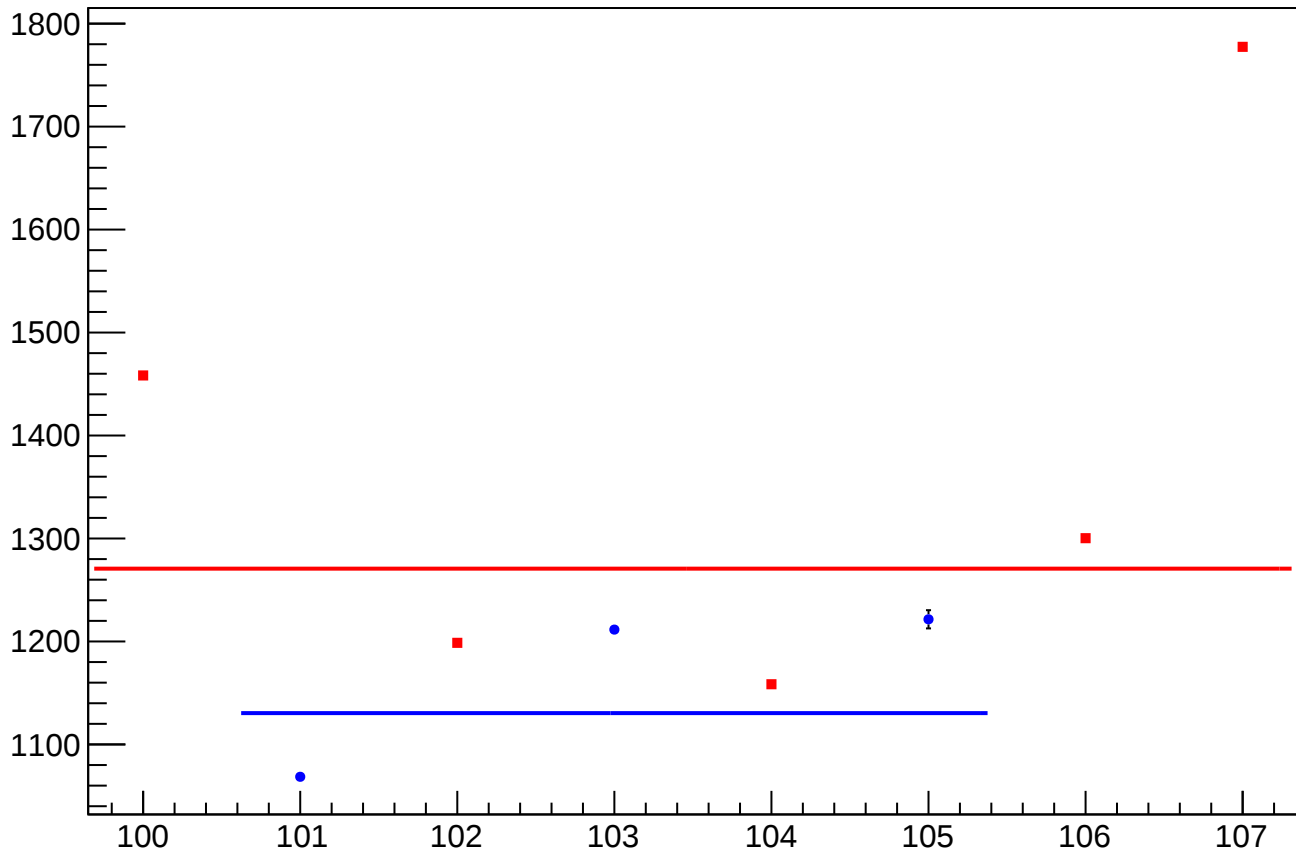
Right Out: 87.150+/-966.179  $\chi^2/\text{NDF}$ : 5.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

854.012+/-1049.736  $\chi^2/\text{NDF}$ : 4.3/2

87.150+/-966.179  $\chi^2/\text{NDF}$ : 5.6/4

# asym\_us\_dd\_rms vs slug



Right In: 1130.421 $\pm$ 0.742  $\chi^2$ /NDF: 9121.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

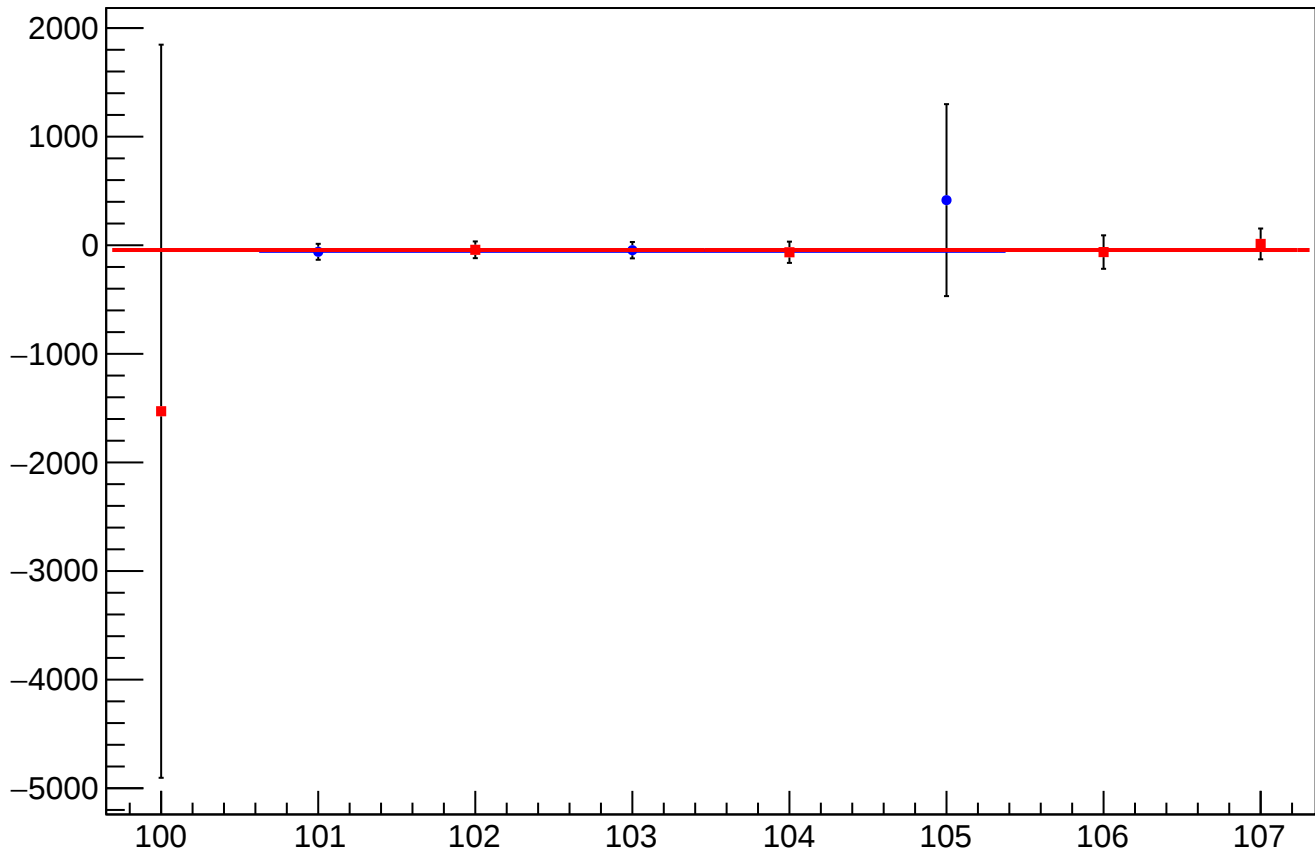
1130.421 $\pm$ 0.742  $\chi^2$ /NDF: 9121.5/2

Right Out: 1270.716 $\pm$ 0.683  $\chi^2$ /NDF: 73660.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1270.716 $\pm$ 0.683  $\chi^2$ /NDF: 73660.4/4

reg\_asym\_ds\_avg\_mean vs slug



Right In: -51.378+/-52.509  $\chi^2$ /NDF: 0.3/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

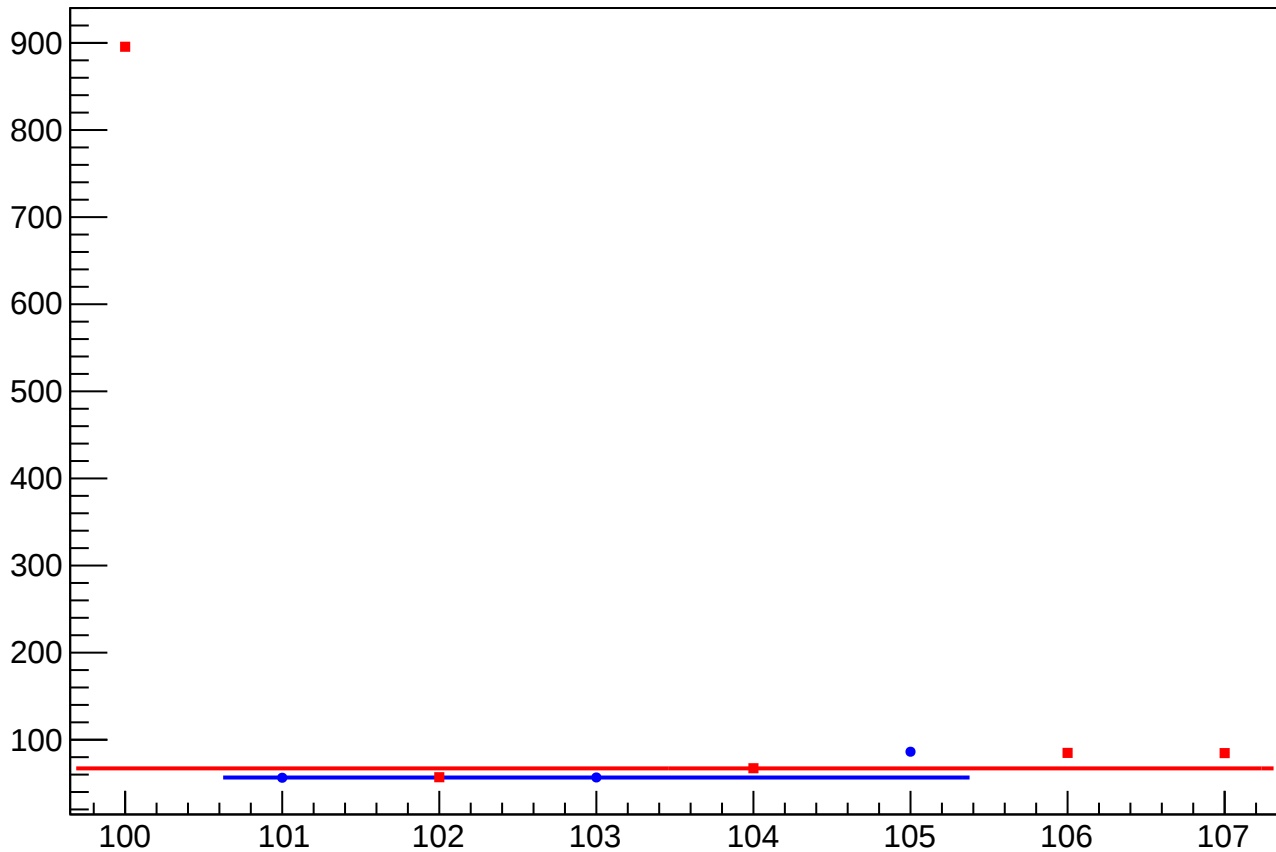
Right Out: -43.778+/-52.345  $\chi^2$ /NDF: 0.4/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-51.378+/-52.509  $\chi^2$ /NDF: 0.3/2

-43.778+/-52.345  $\chi^2$ /NDF: 0.4/4

# reg\_asym\_ds\_avg\_rms vs slug



Right In: 56.642 $\pm$ 0.037  $\chi^2$ /NDF: 2274.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

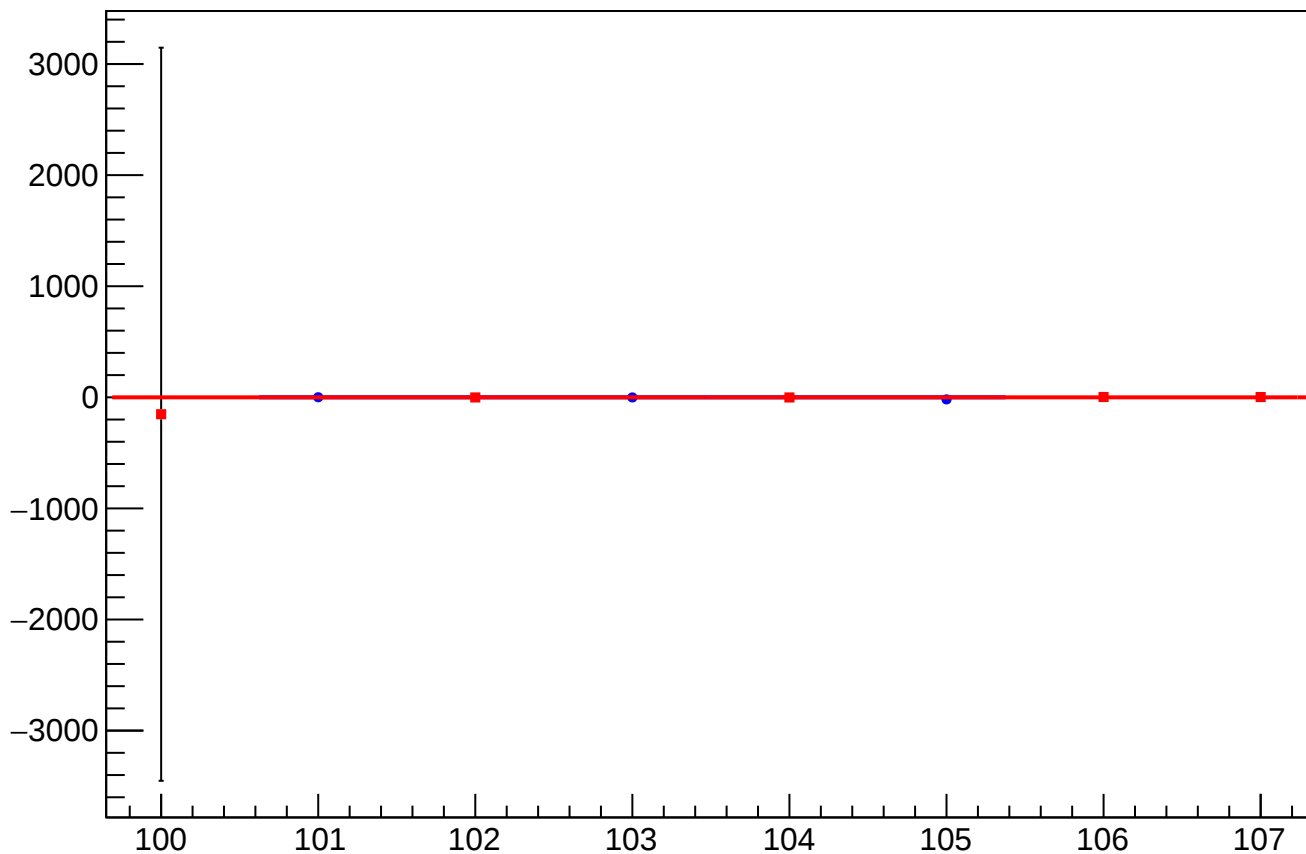
56.642 $\pm$ 0.037  $\chi^2$ /NDF: 2274.3/2

Right Out: 67.126 $\pm$ 0.037  $\chi^2$ /NDF: 212369.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

67.126 $\pm$ 0.037  $\chi^2$ /NDF: 212369.4/4

asym\_ds\_avg\_correction\_mean vs slug



Right In: -0.007 $\pm$ 0.866  $\chi^2$ /NDF: 1.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

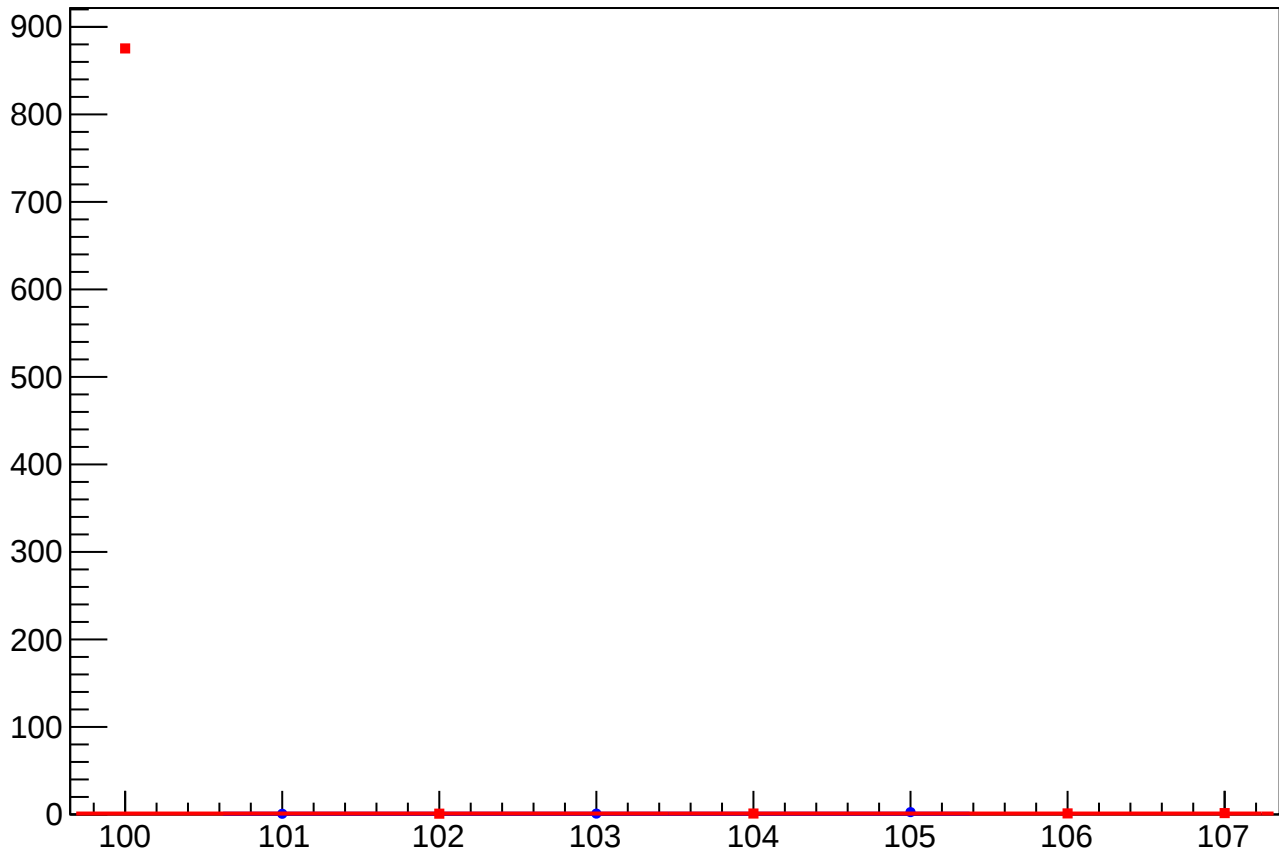
Right Out: -0.173 $\pm$ 0.906  $\chi^2$ /NDF: 3.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.007 $\pm$ 0.866  $\chi^2$ /NDF: 1.4/2

-0.173 $\pm$ 0.906  $\chi^2$ /NDF: 3.5/4

# asym\_ds\_avg\_correction\_rms vs slug



Right In: 0.850+/-0.001  $\chi^2/\text{NDF}$ : 29233.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

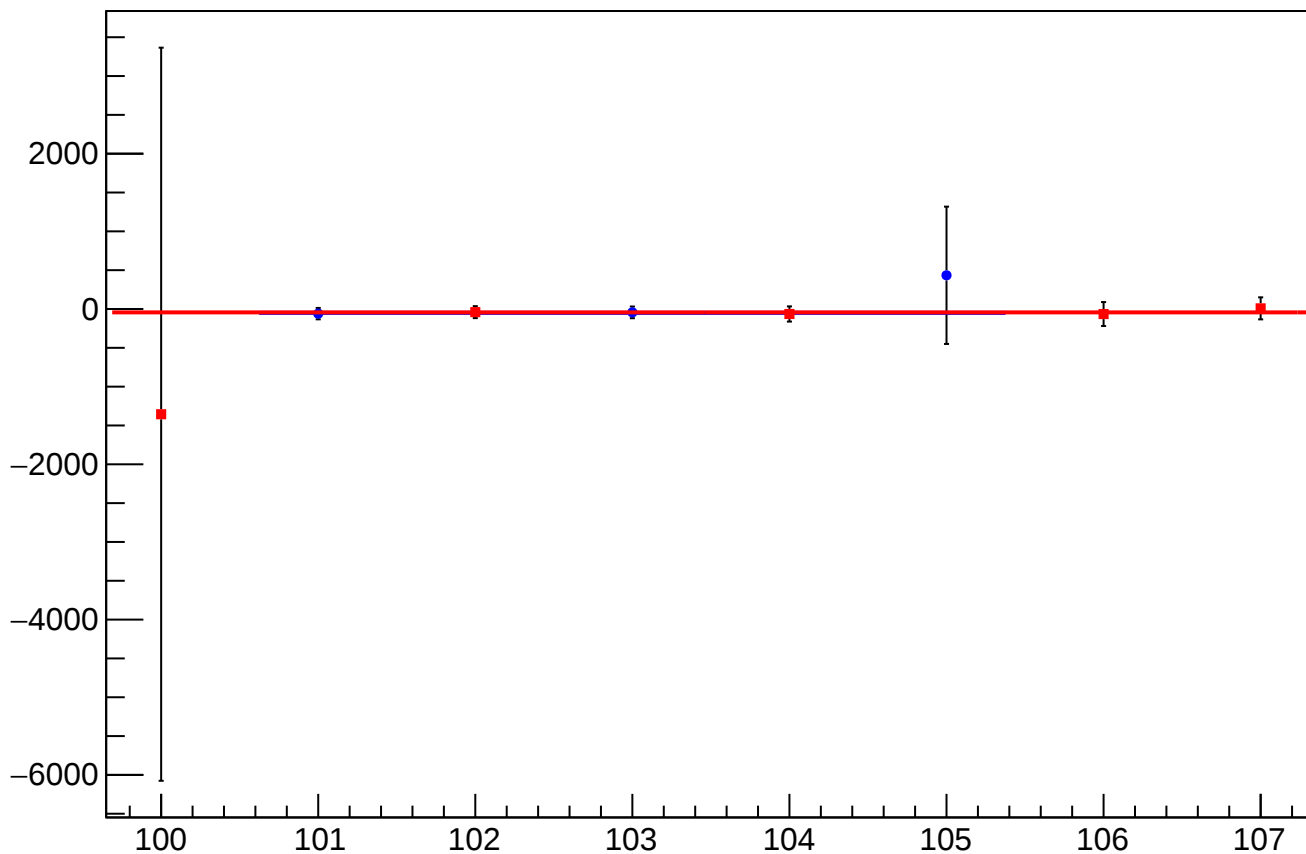
Right Out: 1.058+/-0.001  $\chi^2/\text{NDF}$ : 245158.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.850+/-0.001  $\chi^2/\text{NDF}$ : 29233.6/2

1.058+/-0.001  $\chi^2/\text{NDF}$ : 245158.4/4

# asym\_ds\_avg\_mean vs slug



Right In: -50.045+/-52.522  $\chi^2$ /NDF: 0.3/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

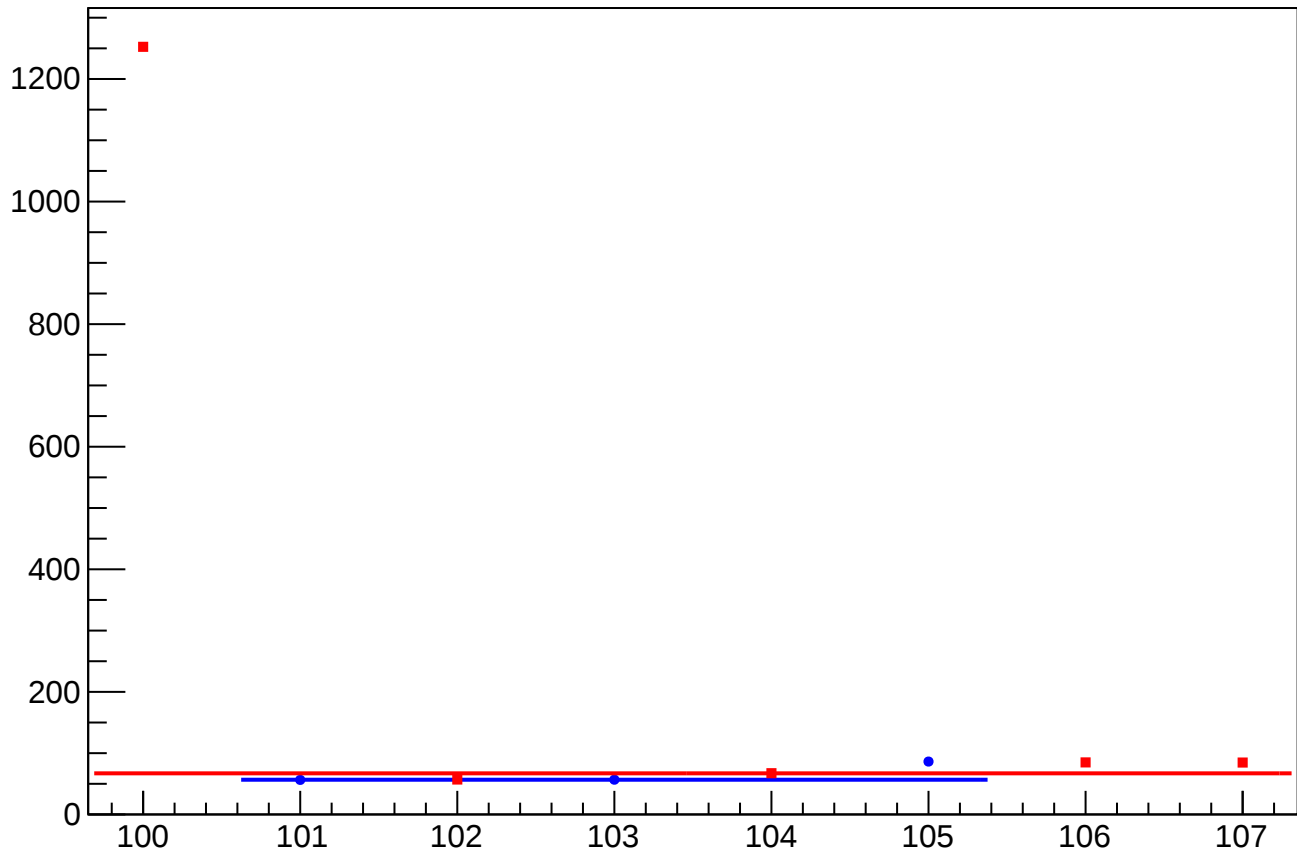
Right Out: -43.645+/-52.362  $\chi^2$ /NDF: 0.3/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-50.045+/-52.522  $\chi^2$ /NDF: 0.3/2

-43.645+/-52.362  $\chi^2$ /NDF: 0.3/4

# asym\_ds\_avg\_rms vs slug



Right In: 56.656+/-0.037  $\chi^2/\text{NDF}$ : 2276.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

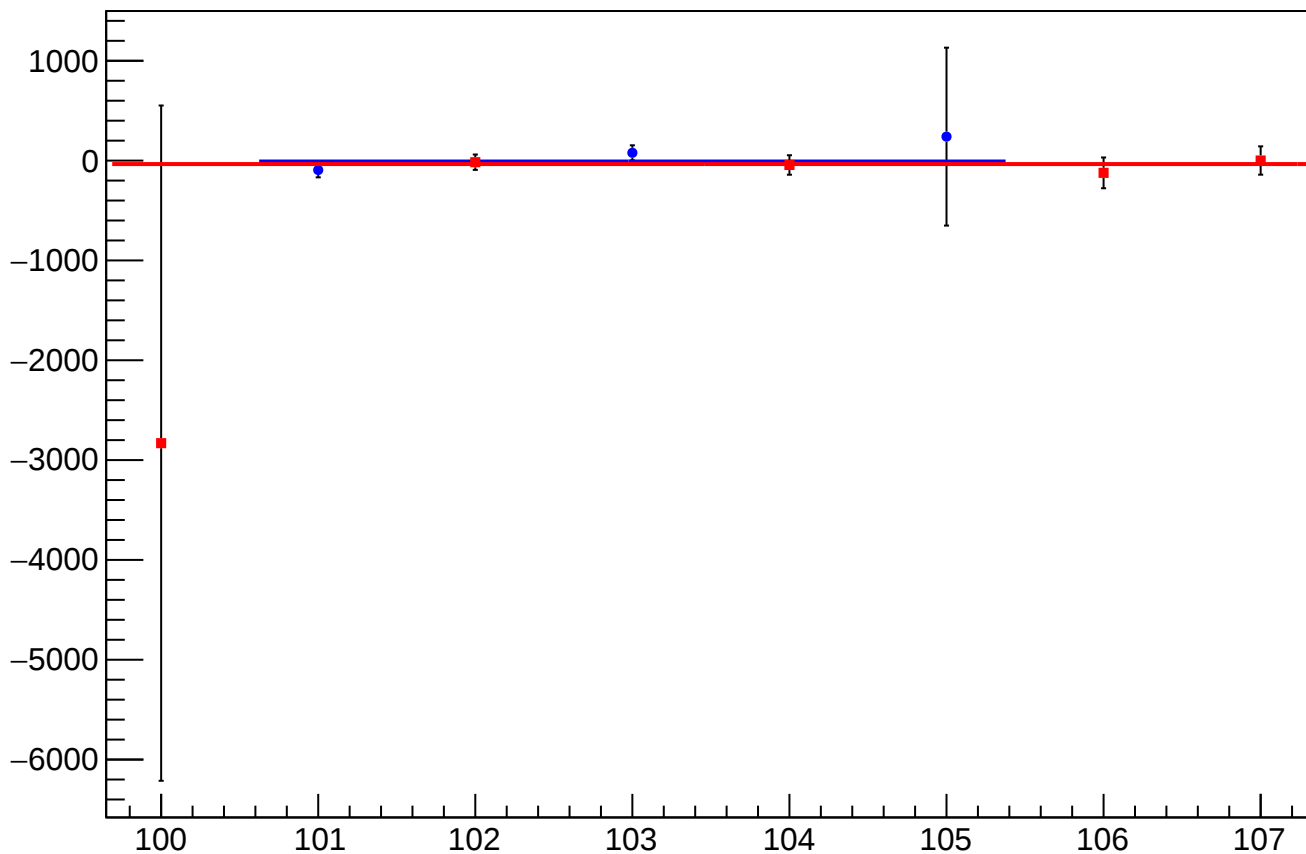
Right Out: 67.091+/-0.037  $\chi^2/\text{NDF}$ : 217979.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

56.656+/-0.037  $\chi^2/\text{NDF}$ : 2276.4/2

67.091+/-0.037  $\chi^2/\text{NDF}$ : 217979.6/4

# reg\_asym\_ds\_dd\_mean vs slug



Right In: -9.114+/-52.482  $\chi^2/\text{NDF}$ : 2.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

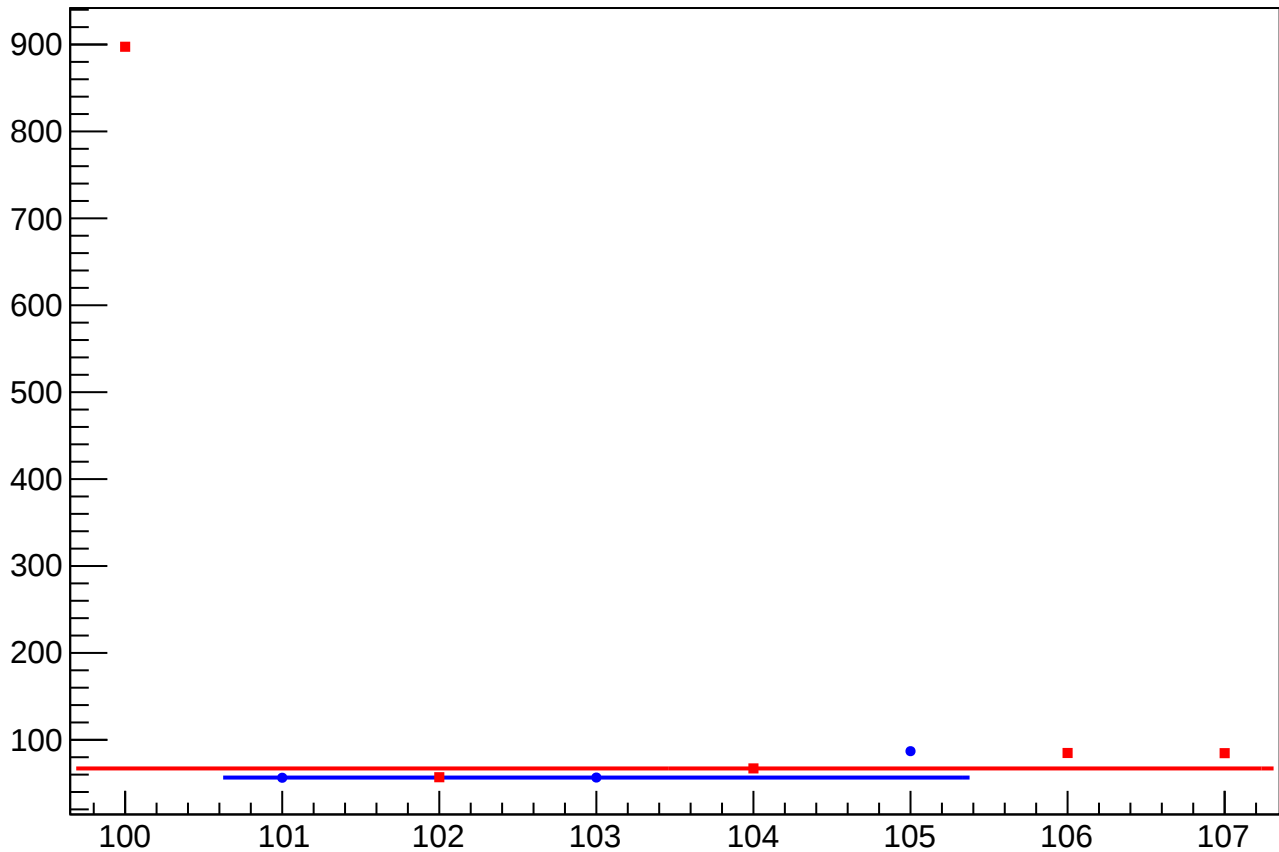
Right Out: -34.600+/-52.313  $\chi^2/\text{NDF}$ : 1.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-9.114+/-52.482  $\chi^2/\text{NDF}$ : 2.8/2

-34.600+/-52.313  $\chi^2/\text{NDF}$ : 1.1/4

# reg\_asym\_ds\_dd\_rms vs slug



Right In: 56.611 $\pm$ 0.037  $\chi^2$ /NDF: 2340.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

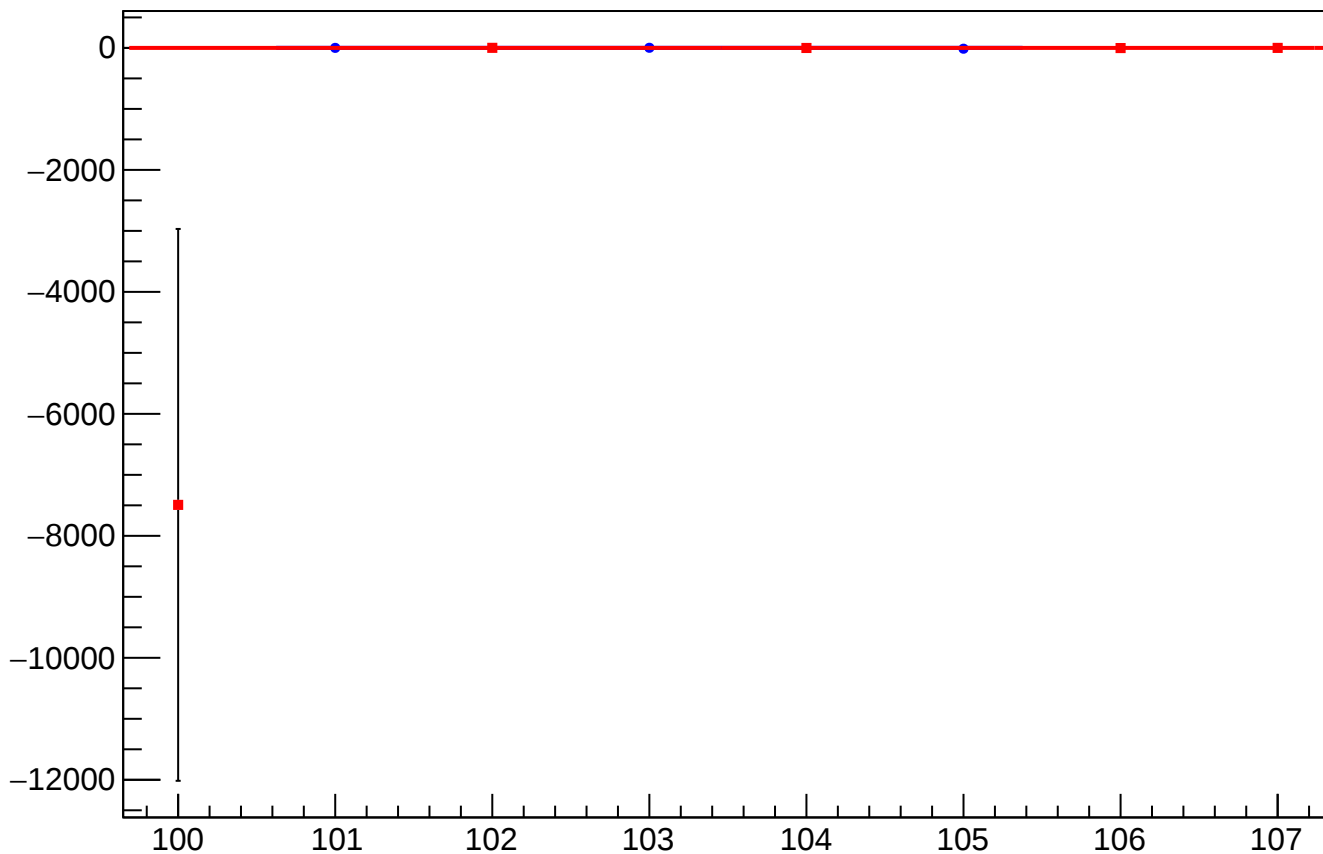
56.611 $\pm$ 0.037  $\chi^2$ /NDF: 2340.5/2

Right Out: 67.086 $\pm$ 0.037  $\chi^2$ /NDF: 212278.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

67.086 $\pm$ 0.037  $\chi^2$ /NDF: 212278.5/4

# asym\_ds\_dd\_correction\_mean vs slug



Right In: 1.432+/-0.883  $\chi^2/\text{NDF}$ : 1.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.184+/-1.026  $\chi^2/\text{NDF}$ : 4.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.432+/-0.883  $\chi^2/\text{NDF}$ : 1.6/2

0.184+/-1.026  $\chi^2/\text{NDF}$ : 4.3/4

# asym\_ds\_dd\_correction\_rms vs slug



Right In: 0.872 $\pm$ 0.001  $\chi^2$ /NDF: 6878.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

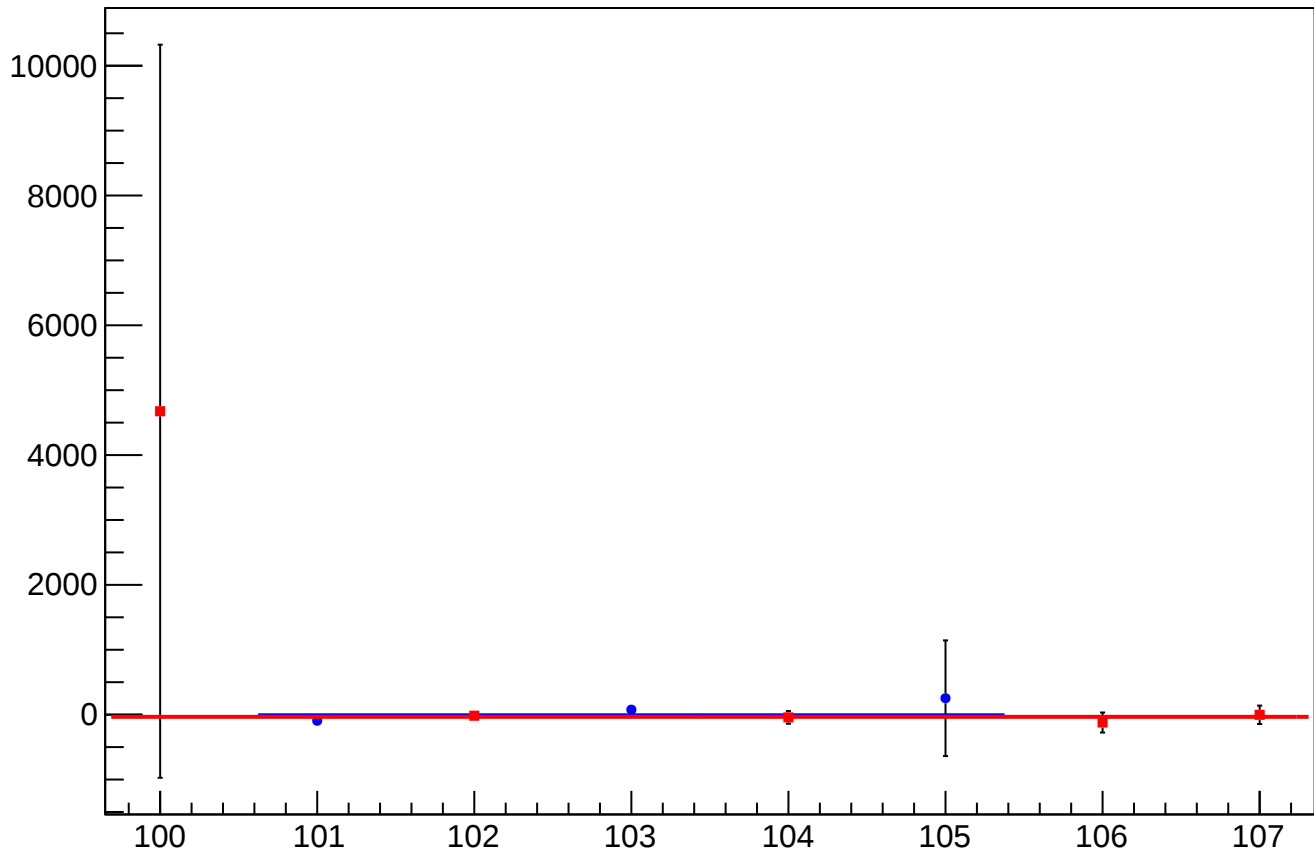
Right Out: 1.244 $\pm$ 0.001  $\chi^2$ /NDF: 235687.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.872 $\pm$ 0.001  $\chi^2$ /NDF: 6878.1/2

1.244 $\pm$ 0.001  $\chi^2$ /NDF: 235687.0/4

# asym\_ds\_dd\_mean vs slug



Right In: -9.775+/-52.495  $\chi^2/\text{NDF}$ : 2.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

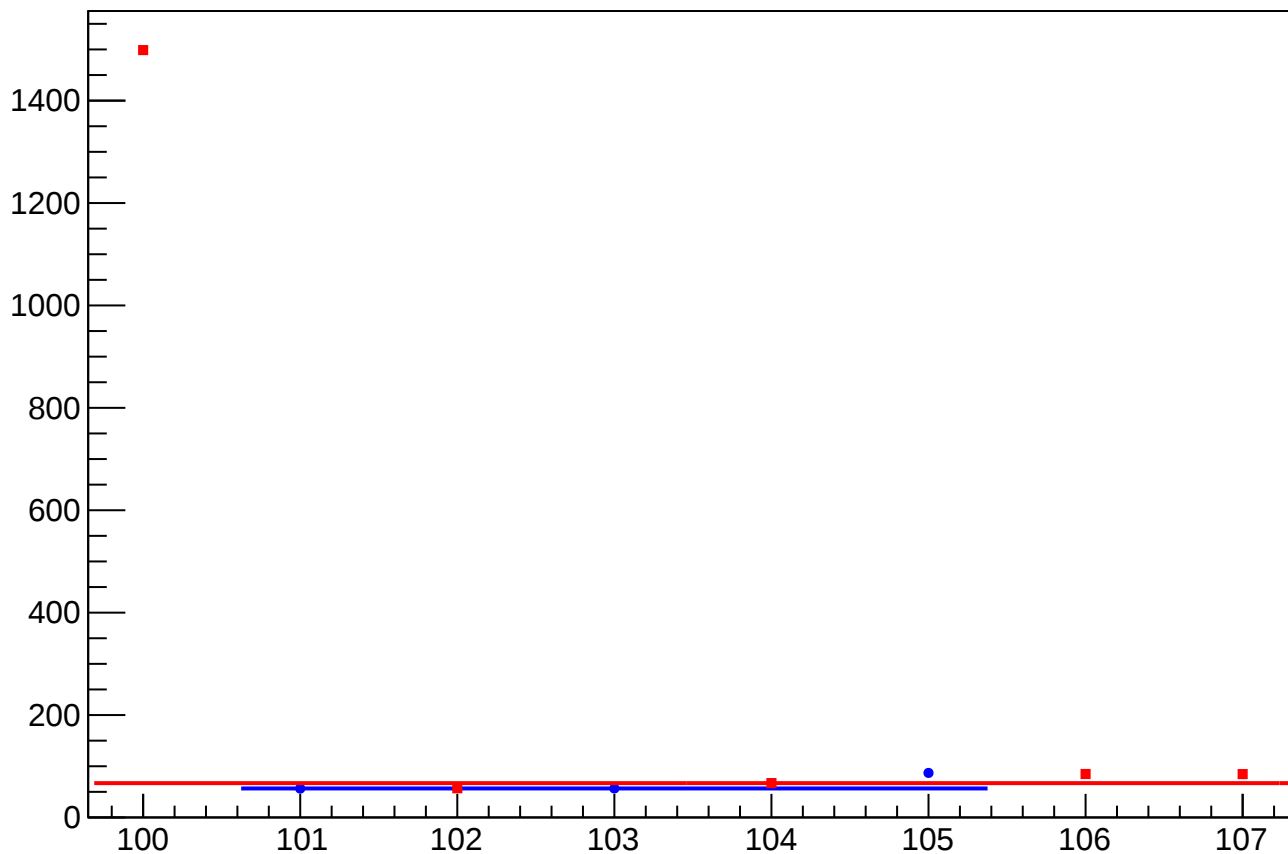
Right Out: -33.675+/-52.332  $\chi^2/\text{NDF}$ : 1.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-9.775+/-52.495  $\chi^2/\text{NDF}$ : 2.7/2

-33.675+/-52.332  $\chi^2/\text{NDF}$ : 1.1/4

# asym\_ds\_dd\_rms vs slug



Right In: 56.626+/-0.037  $\chi^2/\text{NDF}$ : 2339.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

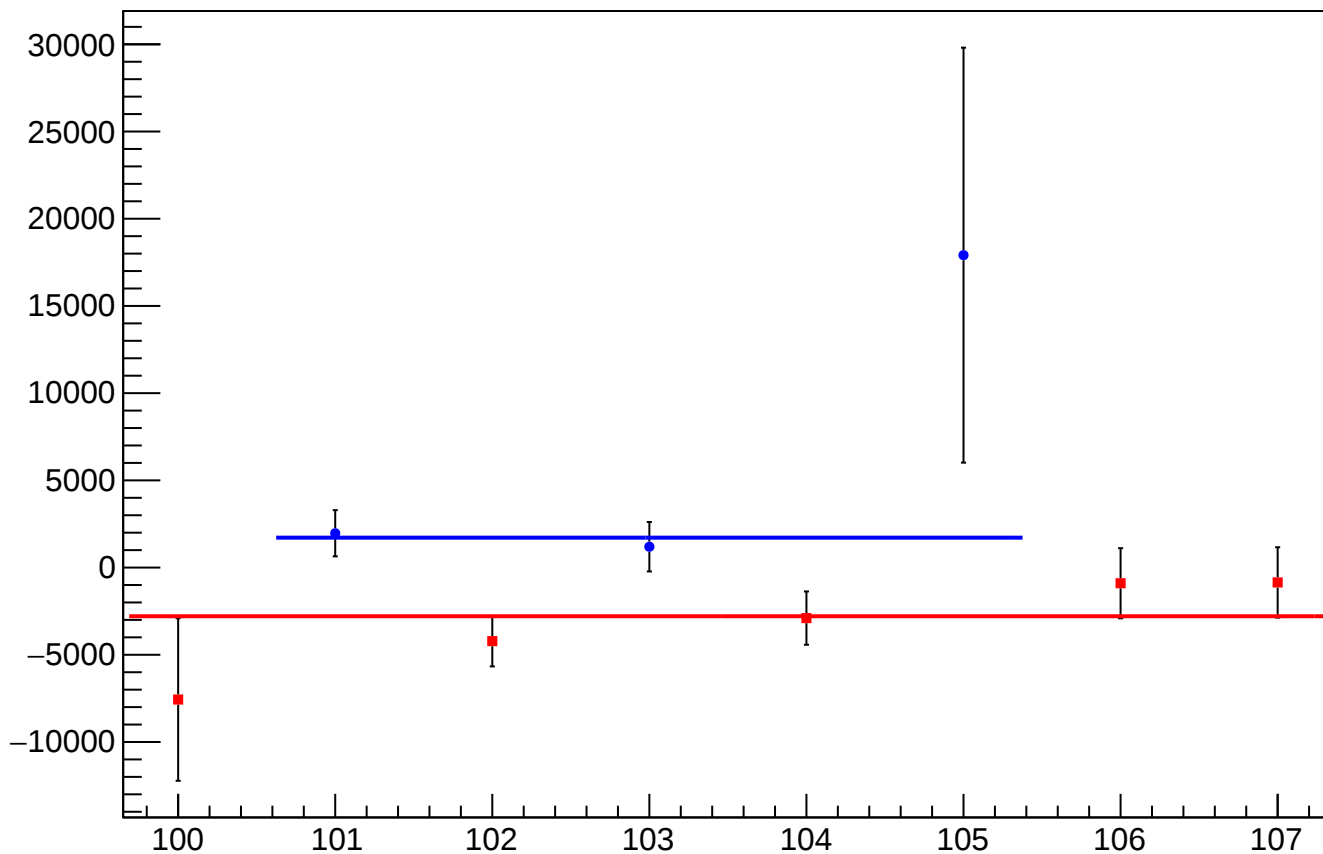
Right Out: 67.029+/-0.037  $\chi^2/\text{NDF}$ : 220221.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

56.626+/-0.037  $\chi^2/\text{NDF}$ : 2339.8/2

67.029+/-0.037  $\chi^2/\text{NDF}$ : 220221.8/4

# reg\_asym\_usl\_mean vs slug



Right In: 1715.031+/-964.986  $\chi^2/\text{NDF}$ : 2.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

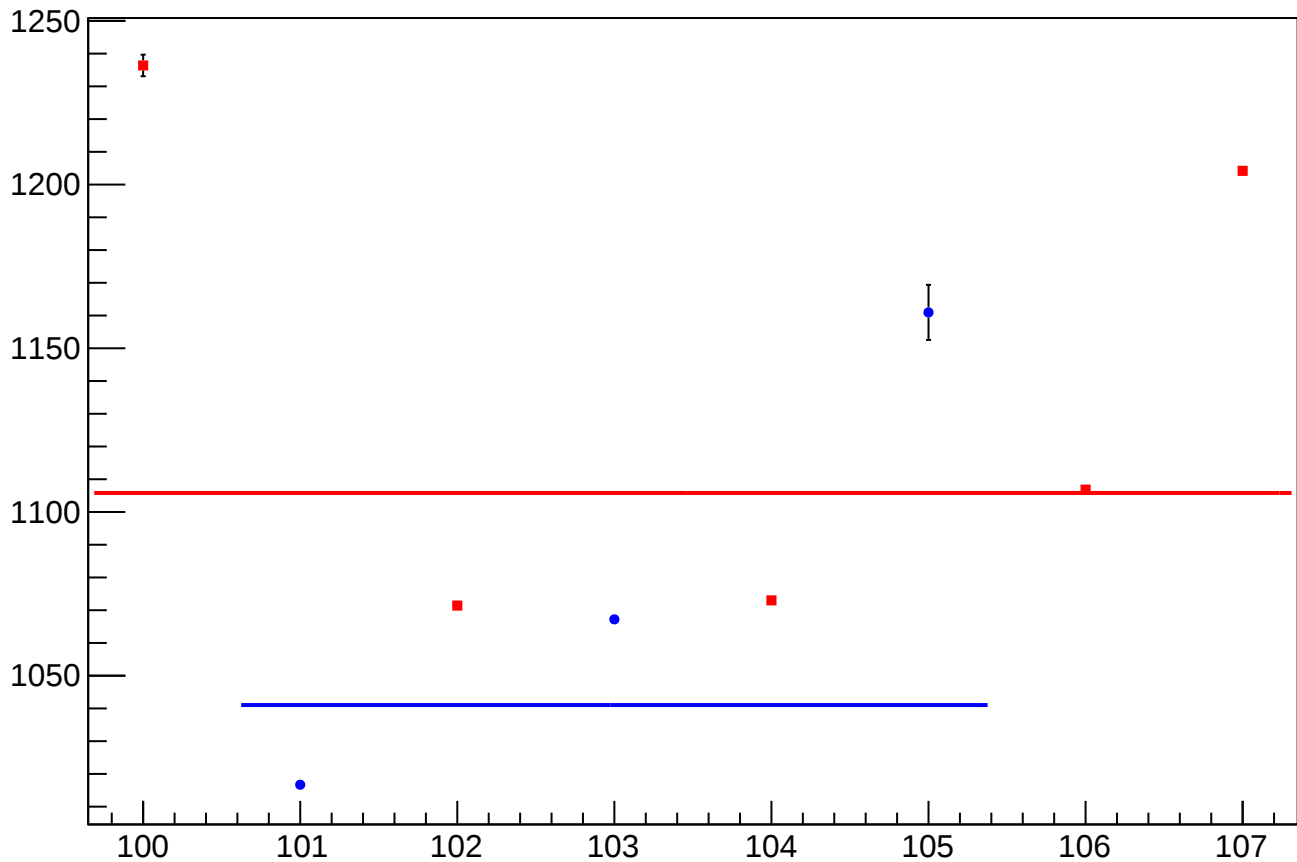
Right Out: -2791.665+/-832.221  $\chi^2/\text{NDF}$ : 3.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1715.031+/-964.986  $\chi^2/\text{NDF}$ : 2.0/2

-2791.665+/-832.221  $\chi^2/\text{NDF}$ : 3.8/4

# reg\_asym\_usl\_rms vs slug



Right In: 1041.032+/-0.682  $\chi^2/\text{NDF}$ : 1559.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

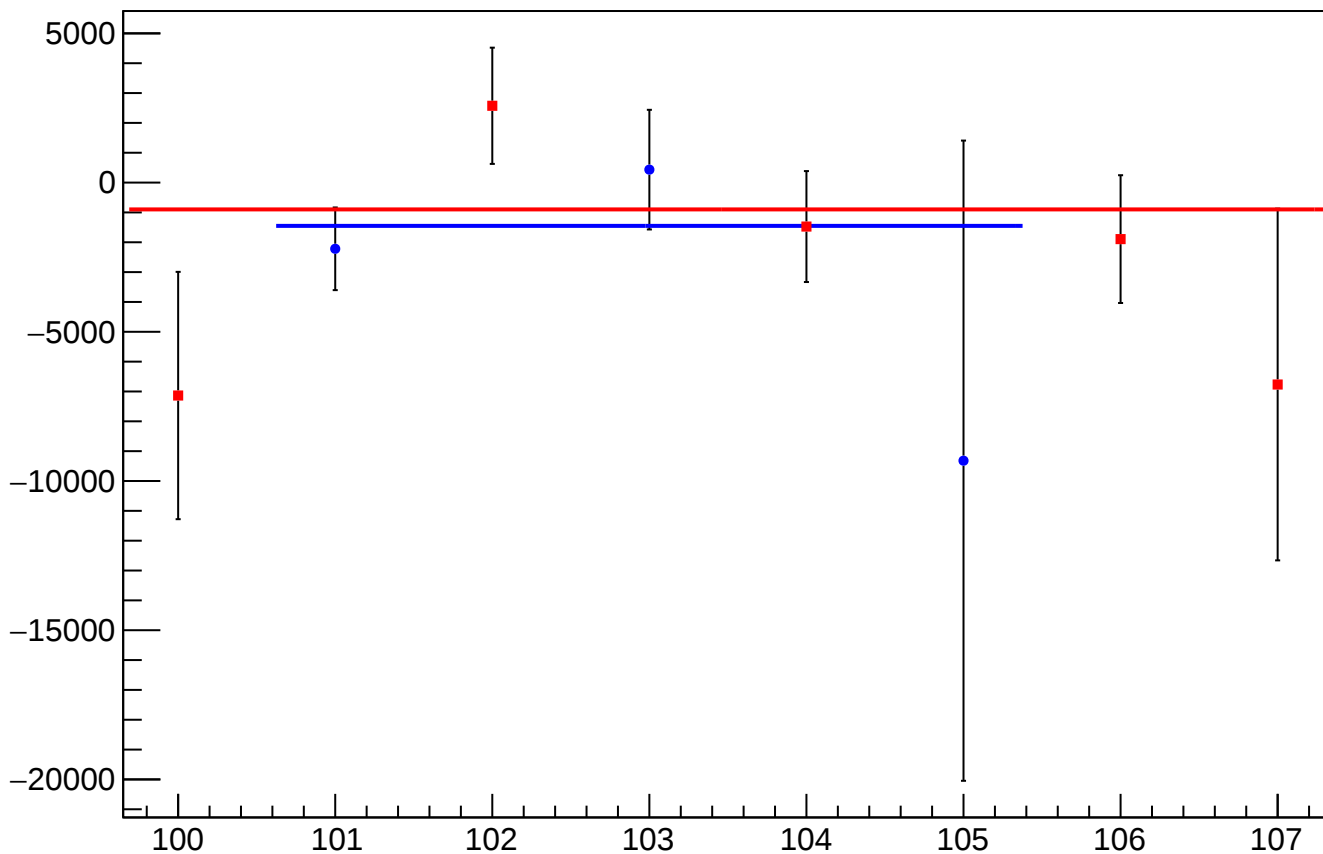
1041.032+/-0.682  $\chi^2/\text{NDF}$ : 1559.4/2

Right Out: 1105.810+/-0.588  $\chi^2/\text{NDF}$ : 8376.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1105.810+/-0.588  $\chi^2/\text{NDF}$ : 8376.2/4

# asym\_usl\_correction\_mean vs slug



Right In: -1450.538 $\pm$ 1133.023  $\chi^2$ /NDF: 1.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

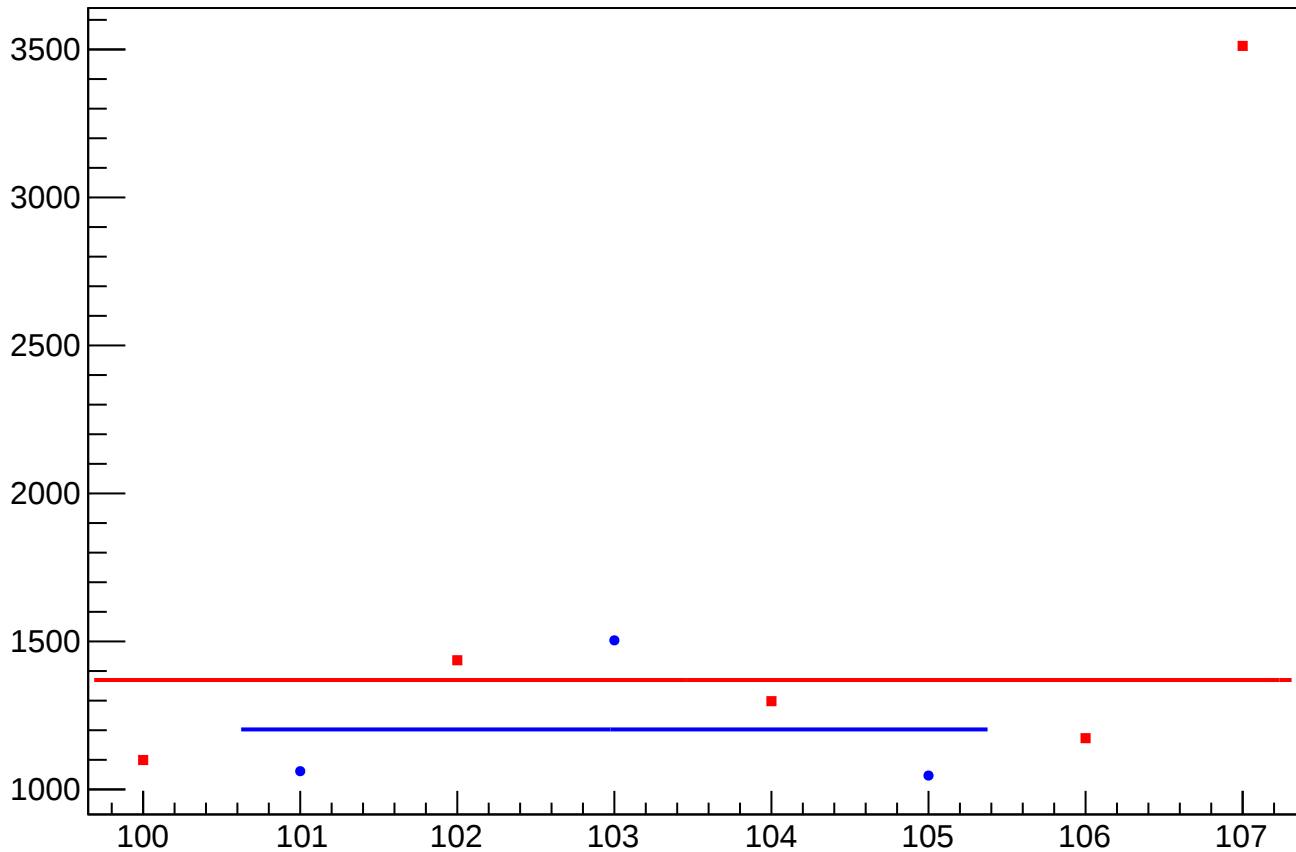
Right Out: -898.869 $\pm$ 1079.374  $\chi^2$ /NDF: 6.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-1450.538 $\pm$ 1133.023  $\chi^2$ /NDF: 1.7/2

-898.869 $\pm$ 1079.374  $\chi^2$ /NDF: 6.7/4

# asym\_usl\_correction\_rms vs slug



Right In: 1202.698 $\pm$ 0.801  $\chi^2$ /NDF: 66267.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

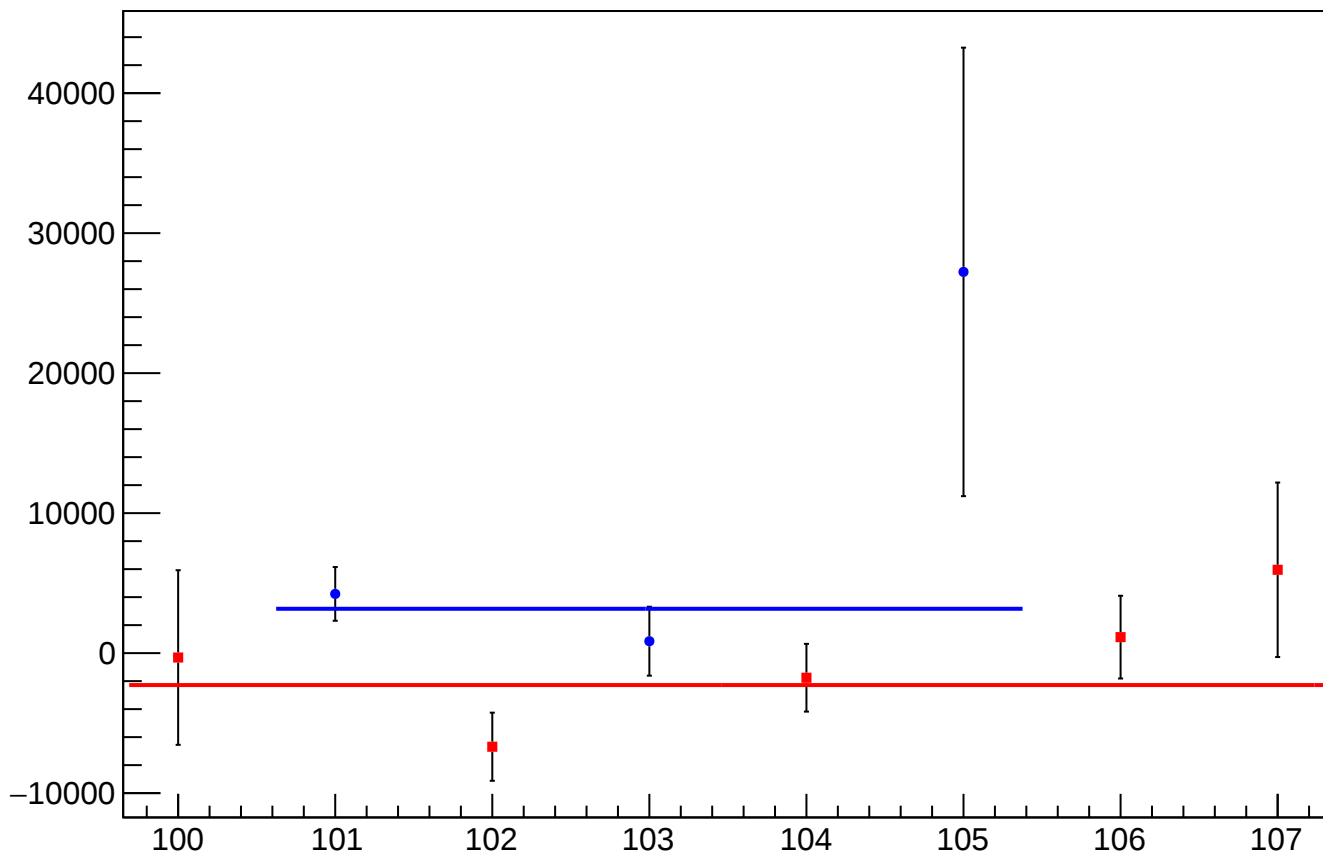
1202.698 $\pm$ 0.801  $\chi^2$ /NDF: 66267.6/2

Right Out: 1369.653 $\pm$ 0.763  $\chi^2$ /NDF: 294974.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1369.653 $\pm$ 0.763  $\chi^2$ /NDF: 294974.8/4

# asym\_usl\_mean vs slug



Right In: 3168.412+/-1506.736  $\chi^2$ /NDF: 3.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

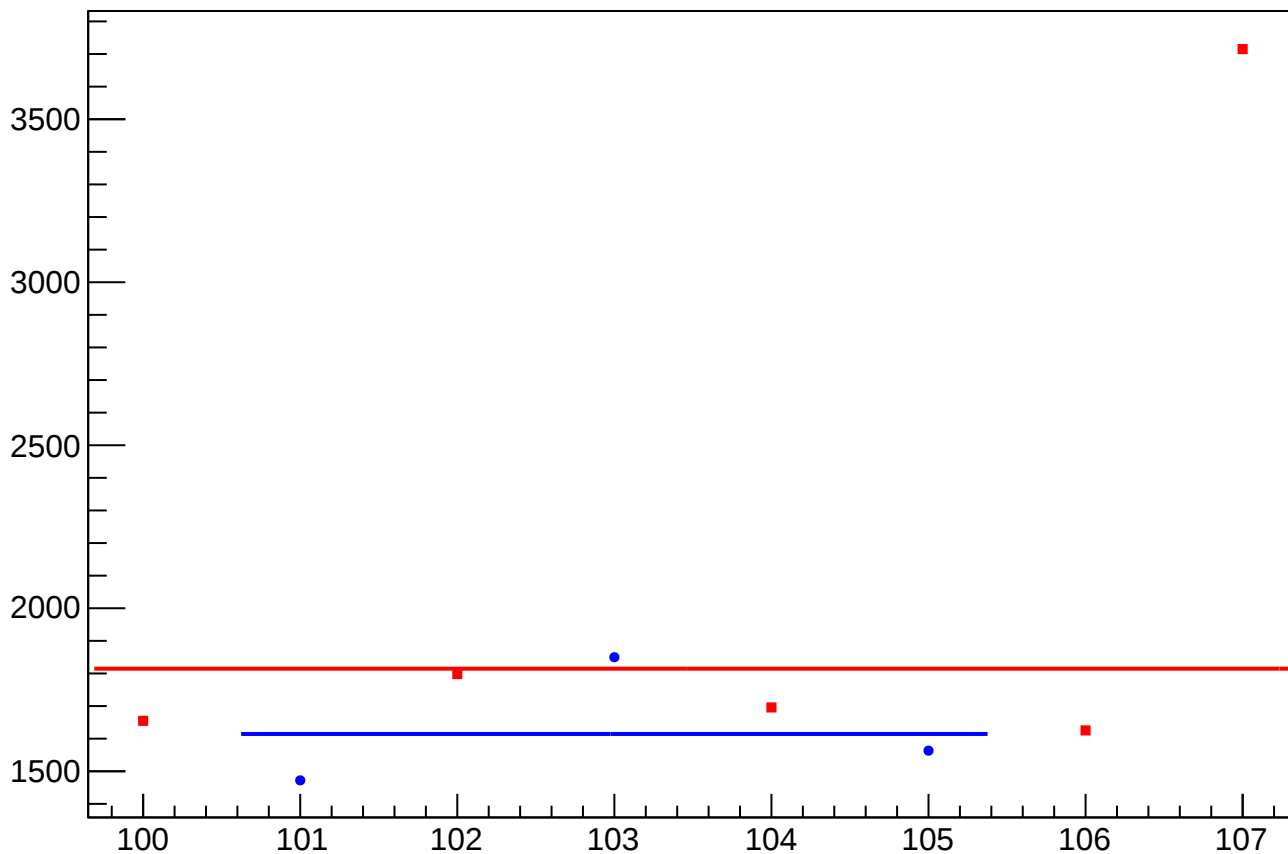
Right Out: -2280.658+/-1406.327  $\chi^2$ /NDF: 6.5/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3168.412+/-1506.736  $\chi^2$ /NDF: 3.4/2

-2280.658+/-1406.327  $\chi^2$ /NDF: 6.5/4

# asym\_usl\_rms vs slug



Right In: 1614.441 $\pm$ 1.065  $\chi^2$ /NDF: 29310.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

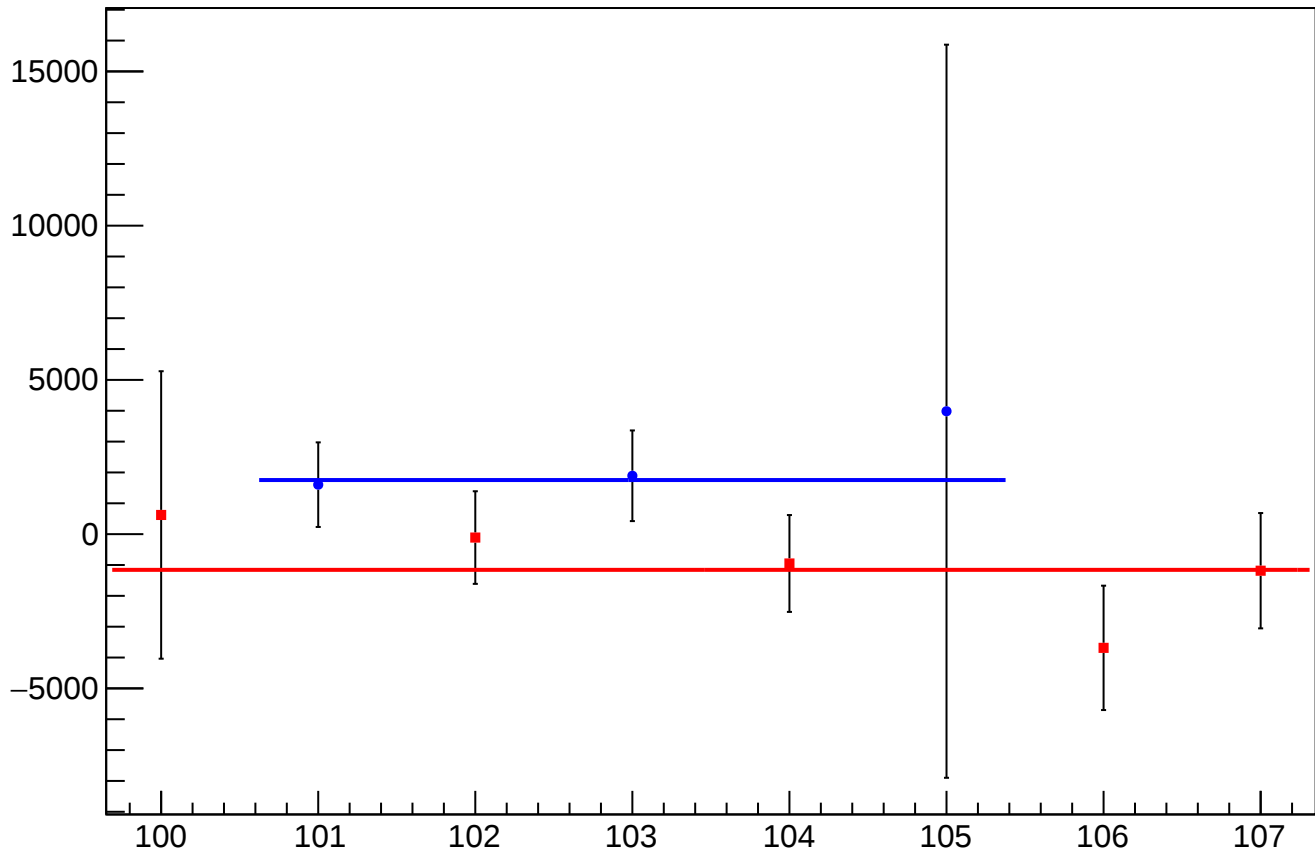
Right Out: 1814.685 $\pm$ 0.994  $\chi^2$ /NDF: 200422.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1614.441 $\pm$ 1.065  $\chi^2$ /NDF: 29310.4/2

1814.685 $\pm$ 0.994  $\chi^2$ /NDF: 200422.1/4

# reg\_asym\_usr\_mean vs slug



Right In: 1753.837+/-998.915  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

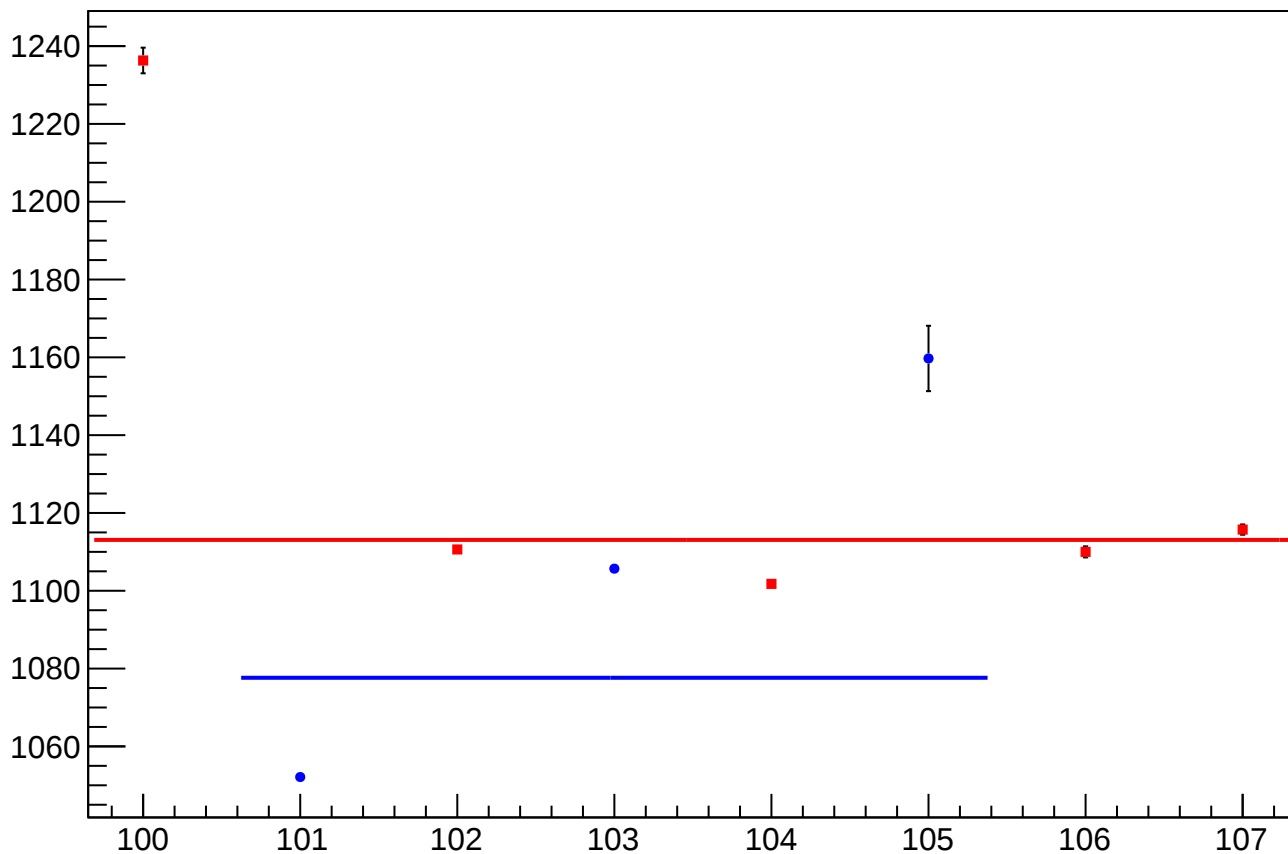
Right Out: -1157.450+/-836.856  $\chi^2/\text{NDF}$ : 2.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1753.837+/-998.915  $\chi^2/\text{NDF}$ : 0.1/2

-1157.450+/-836.856  $\chi^2/\text{NDF}$ : 2.2/4

# reg\_asym\_usr\_rms vs slug



Right In: 1077.639+/-0.706  $\chi^2/\text{NDF}$ : 1516.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

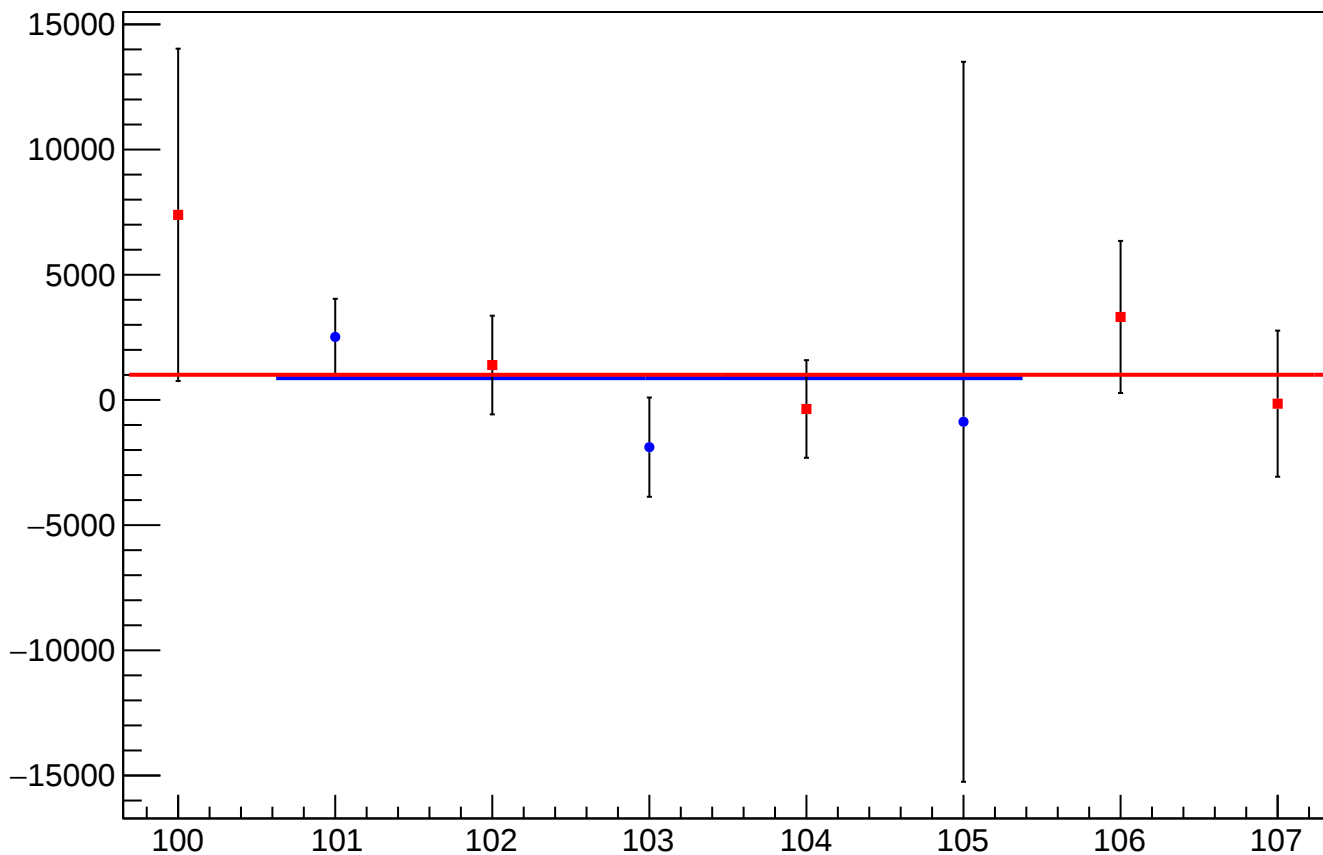
Right Out: 1113.075+/-0.592  $\chi^2/\text{NDF}$ : 1516.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1077.639+/-0.706  $\chi^2/\text{NDF}$ : 1516.4/2

1113.075+/-0.592  $\chi^2/\text{NDF}$ : 1516.5/4

# asym\_usr\_correction\_mean vs slug



Right In: 869.560 $\pm$ 1203.795  $\chi^2$ /NDF: 3.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

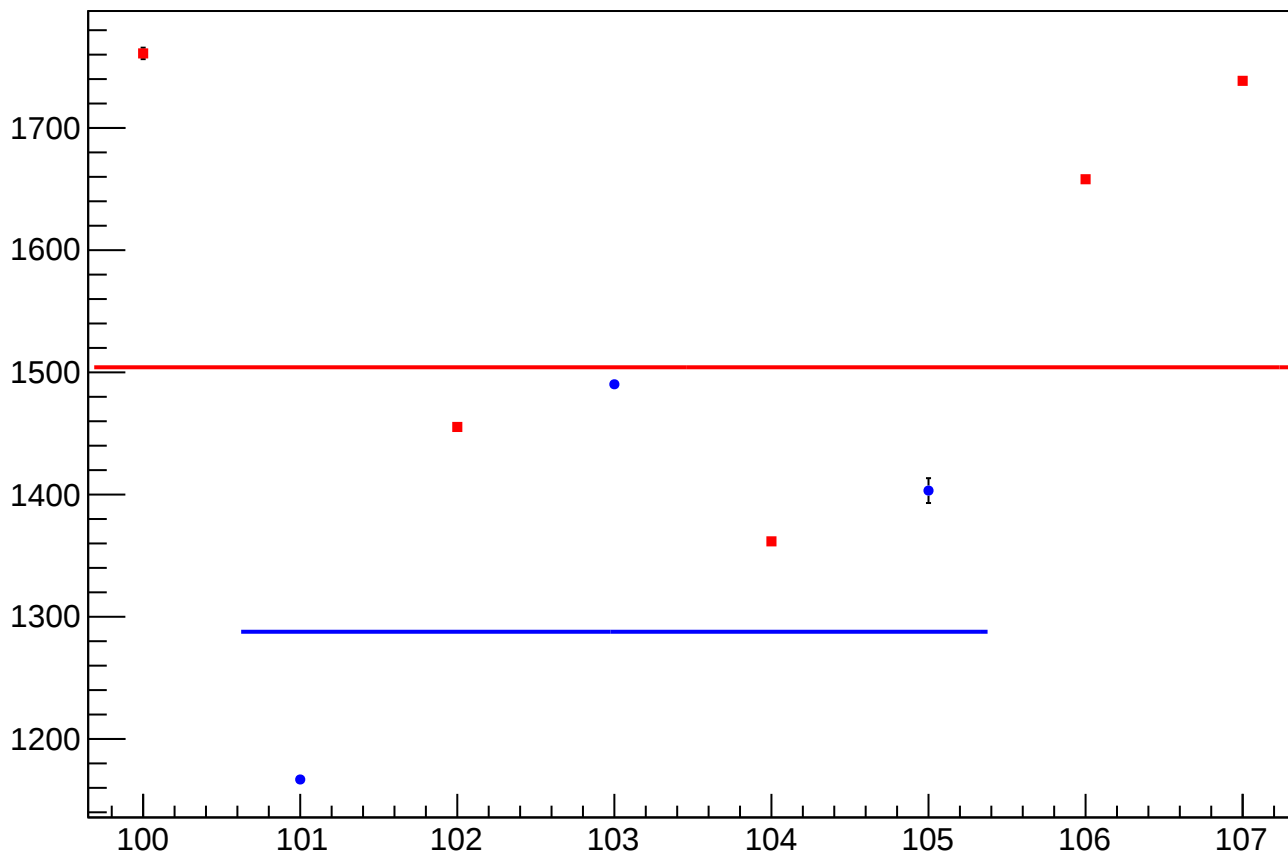
Right Out: 1005.623 $\pm$ 1140.228  $\chi^2$ /NDF: 2.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

869.560 $\pm$ 1203.795  $\chi^2$ /NDF: 3.1/2

1005.623 $\pm$ 1140.228  $\chi^2$ /NDF: 2.2/4

# asym\_usr\_correction\_rms vs slug



Right In: 1287.739+/-0.851  $\chi^2/\text{NDF}$ : 33589.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

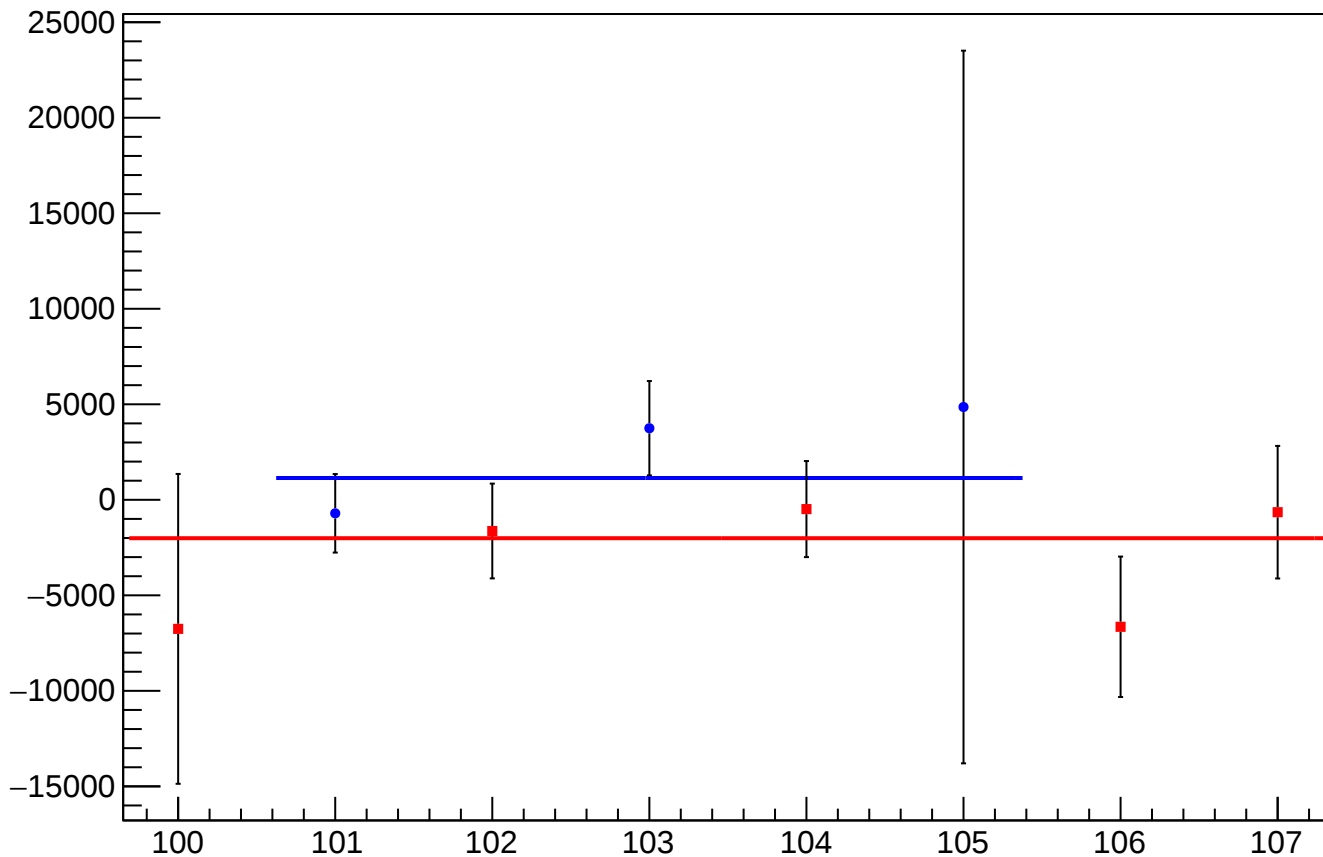
Right Out: 1504.162+/-0.806  $\chi^2/\text{NDF}$ : 32939.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1287.739+/-0.851  $\chi^2/\text{NDF}$ : 33589.2/2

1504.162+/-0.806  $\chi^2/\text{NDF}$ : 32939.3/4

# asym\_usr\_mean vs slug



Right In: 1141.414+/-1573.979  $\chi^2/\text{NDF}$ : 2.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

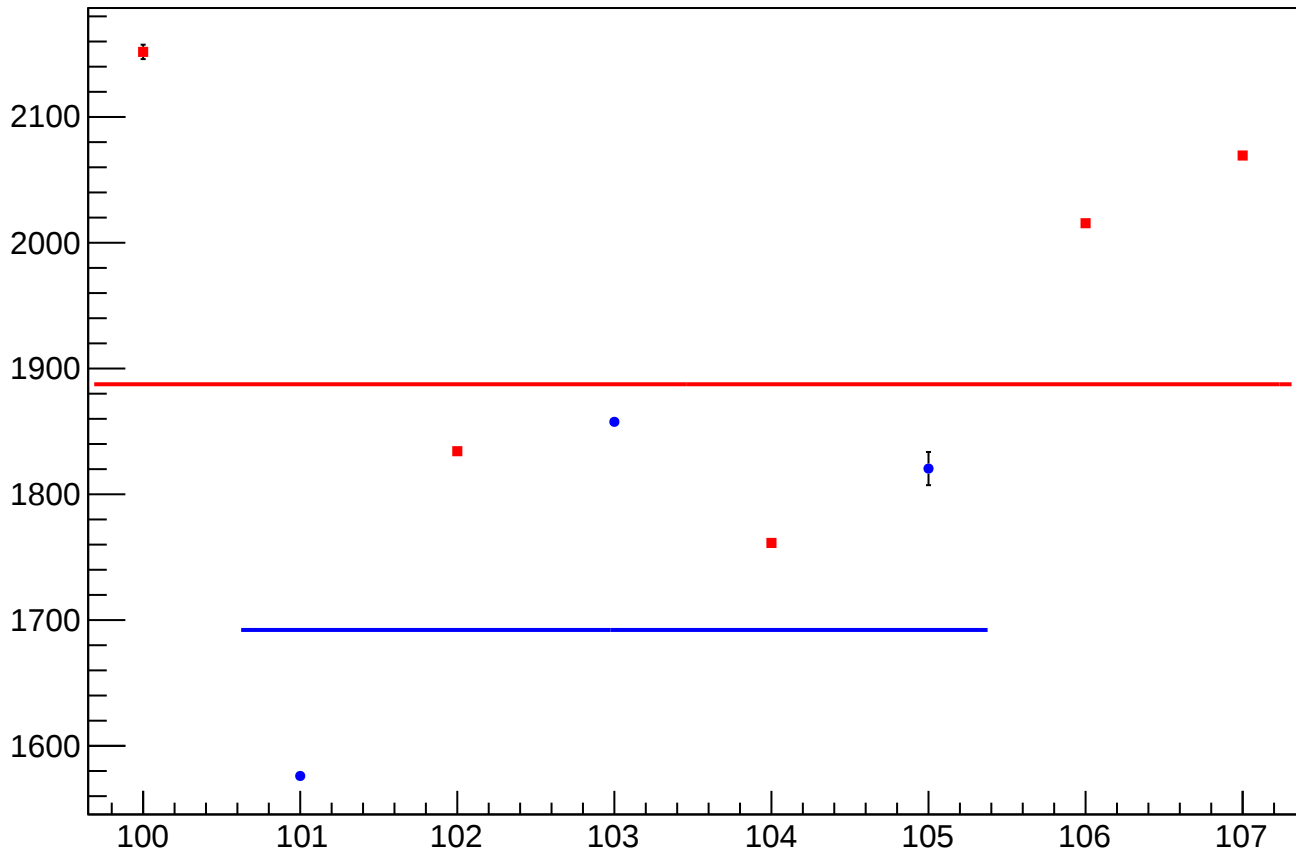
Right Out: -2010.133+/-1424.363  $\chi^2/\text{NDF}$ : 2.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1141.414+/-1573.979  $\chi^2/\text{NDF}$ : 2.0/2

-2010.133+/-1424.363  $\chi^2/\text{NDF}$ : 2.5/4

# asym\_usr\_rms vs slug



Right In: 1692.145+/-1.113  $\chi^2/\text{NDF}$ : 15457.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

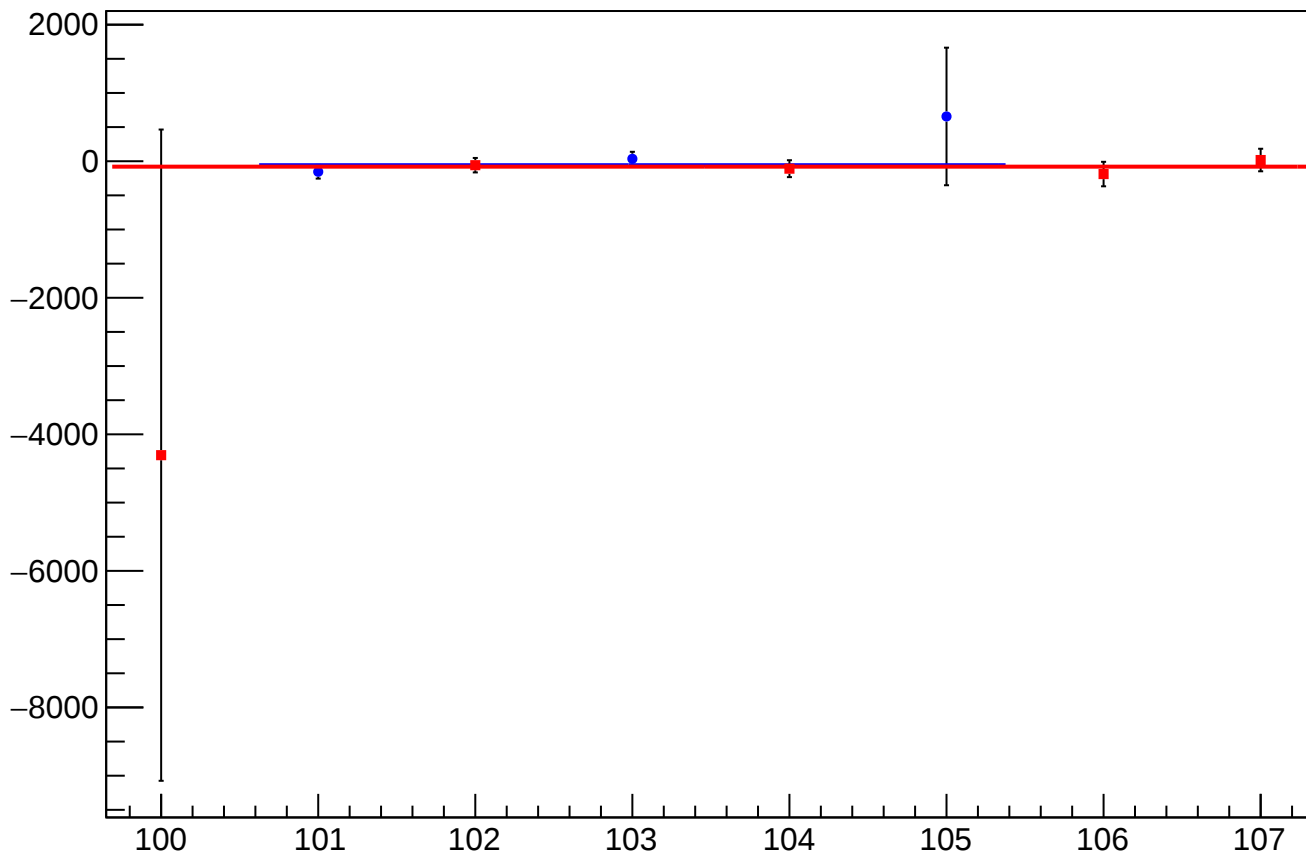
1692.145+/-1.113  $\chi^2/\text{NDF}$ : 15457.3/2

Right Out: 1887.494+/-1.007  $\chi^2/\text{NDF}$ : 15999.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1887.494+/-1.007  $\chi^2/\text{NDF}$ : 15999.3/4

# reg\_asym\_dsl\_mean vs slug



Right In: -58.180+/-71.594  $\chi^2$ /NDF: 2.2/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

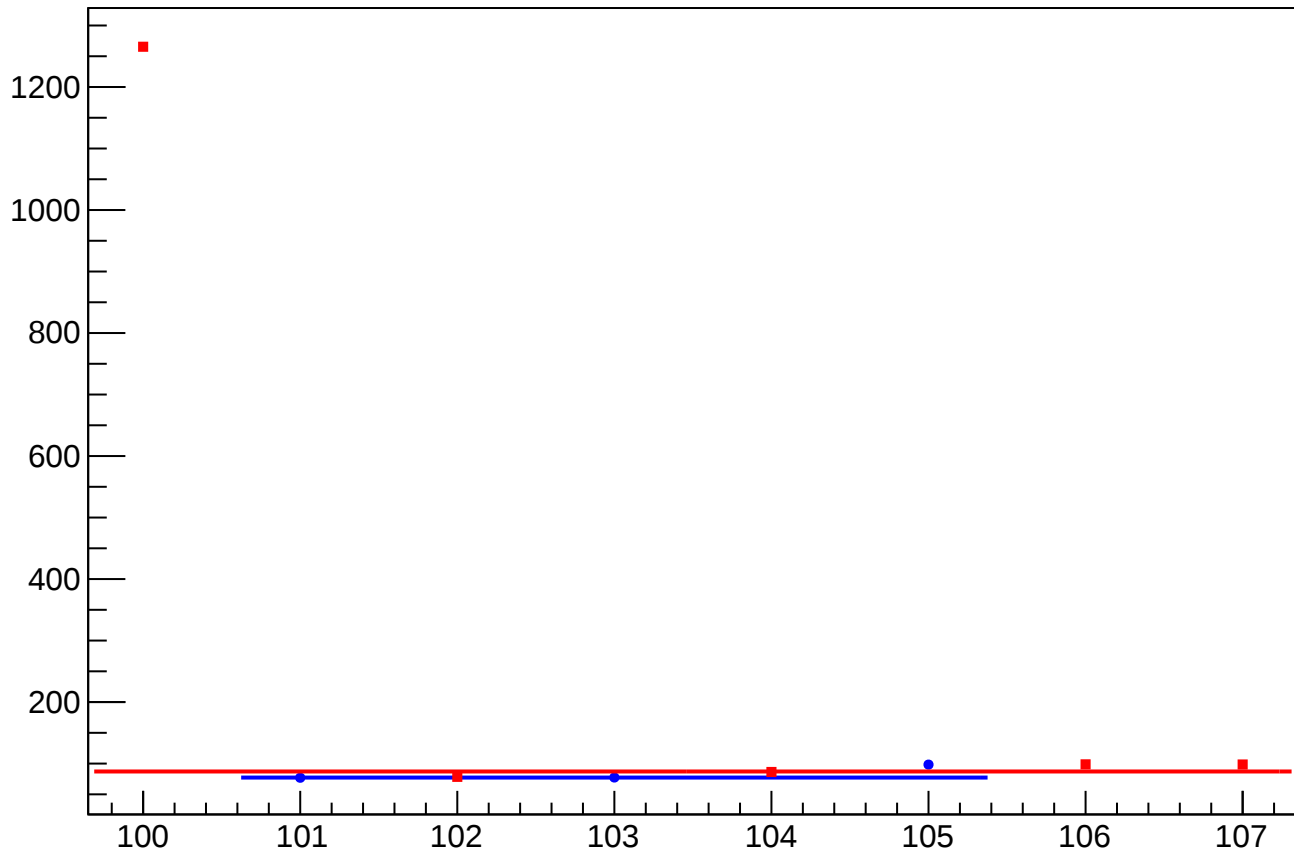
Right Out: -79.529+/-67.114  $\chi^2$ /NDF: 1.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-58.180+/-71.594  $\chi^2$ /NDF: 2.2/2

-79.529+/-67.114  $\chi^2$ /NDF: 1.6/4

# reg\_asym\_dsl\_rms vs slug



Right In: 77.252 $\pm$ 0.051  $\chi^2$ /NDF: 895.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

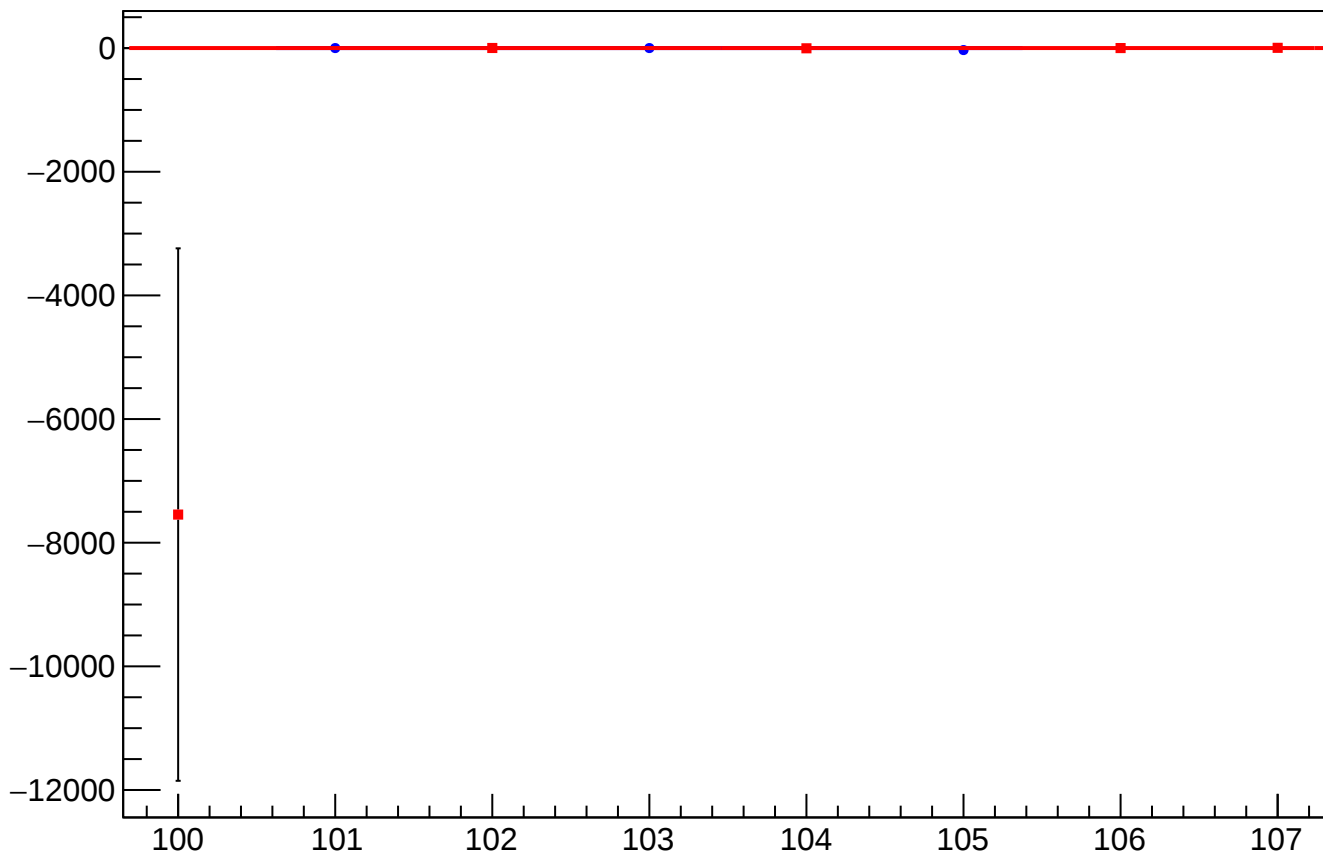
Right Out: 87.149 $\pm$ 0.047  $\chi^2$ /NDF: 153598.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

77.252 $\pm$ 0.051  $\chi^2$ /NDF: 895.6/2

87.149 $\pm$ 0.047  $\chi^2$ /NDF: 153598.2/4

# asym\_dsl\_correction\_mean vs slug



Right In: 0.807+/-1.048  $\chi^2/\text{NDF}$ : 0.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

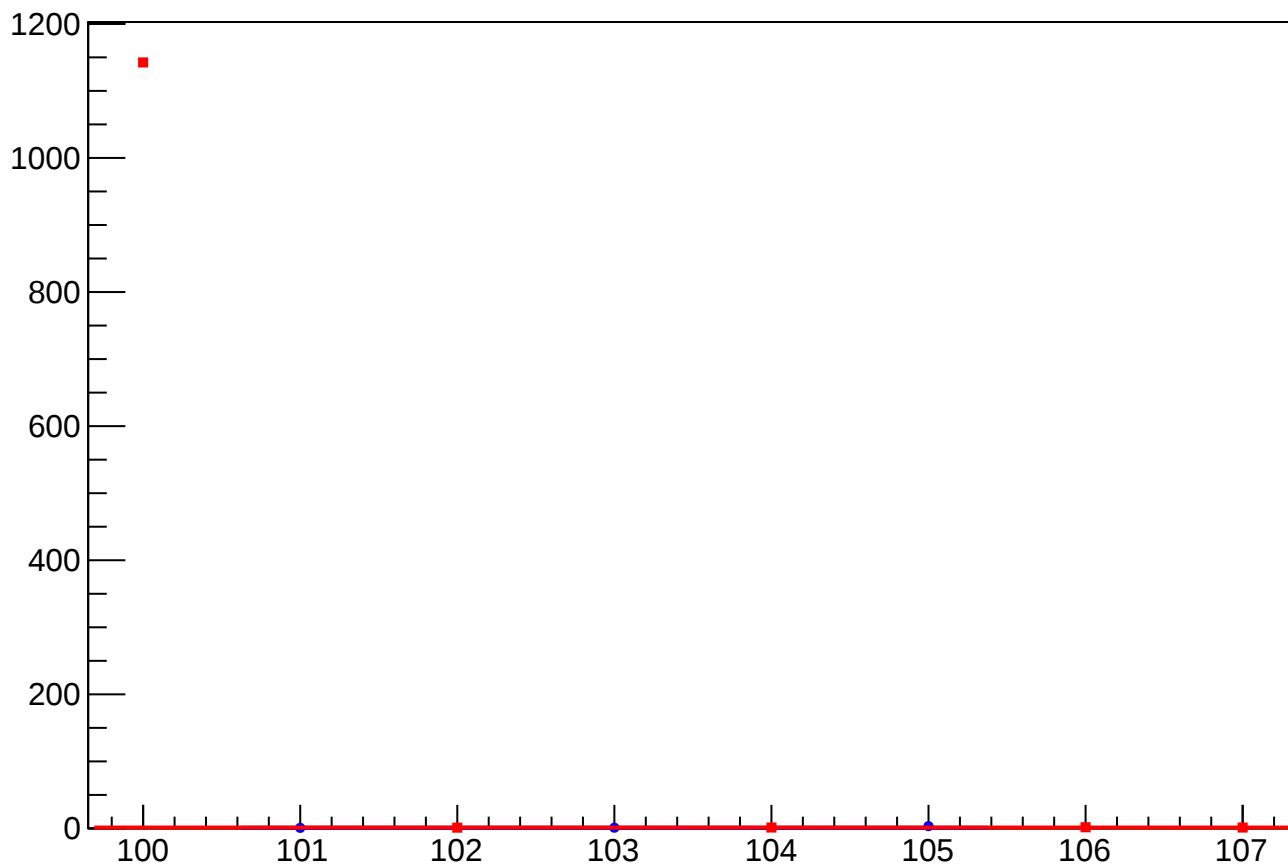
Right Out: 0.993+/-1.161  $\chi^2/\text{NDF}$ : 8.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.807+/-1.048  $\chi^2/\text{NDF}$ : 0.8/2

0.993+/-1.161  $\chi^2/\text{NDF}$ : 8.6/4

# asym\_dsl\_correction\_rms vs slug



Right In: 0.973+/-0.001  $\chi^2/\text{NDF}$ : 36922.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

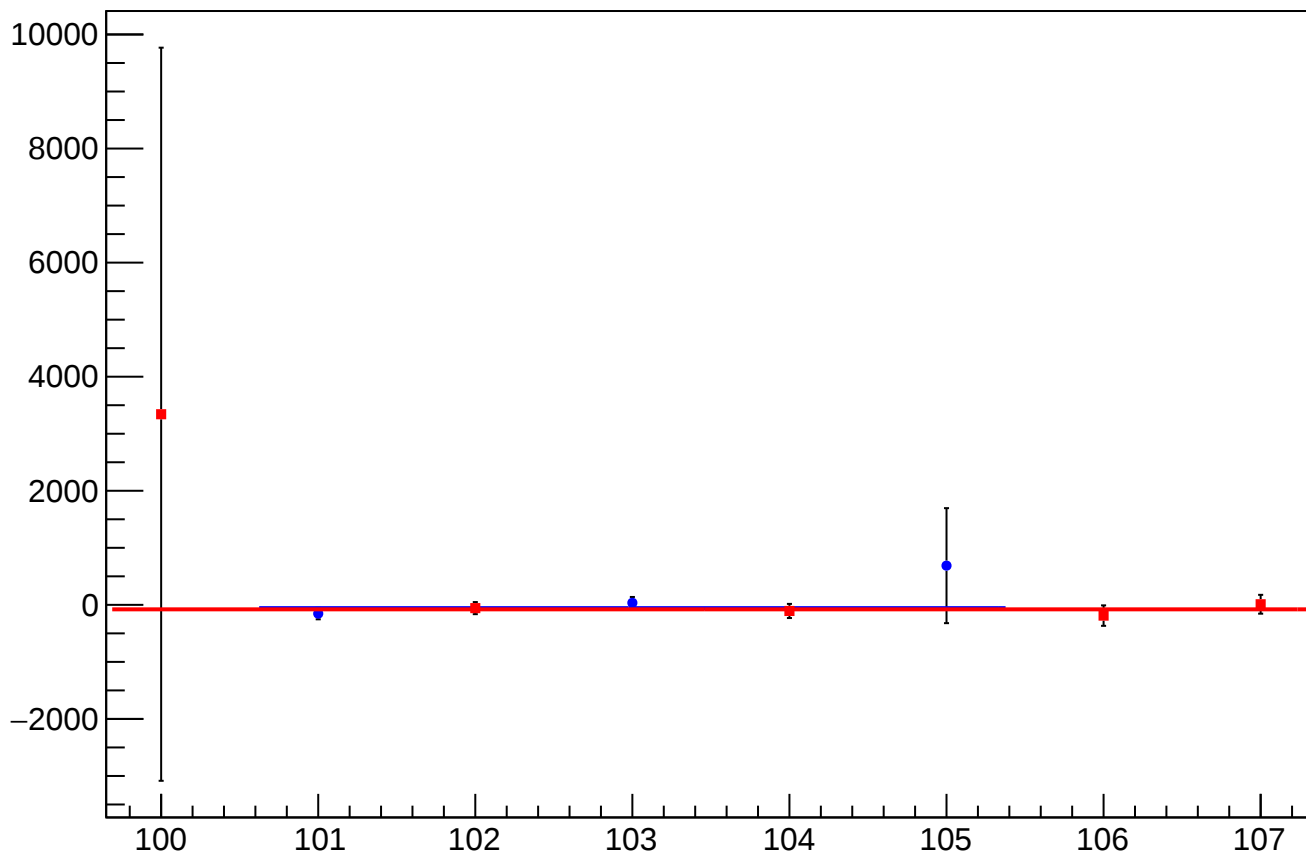
Right Out: 1.369+/-0.001  $\chi^2/\text{NDF}$ : 183845.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.973+/-0.001  $\chi^2/\text{NDF}$ : 36922.9/2

1.369+/-0.001  $\chi^2/\text{NDF}$ : 183845.1/4

# asym\_dsl\_mean vs slug



Right In: -57.545+/-71.612  $\chi^2$ /NDF: 2.3/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

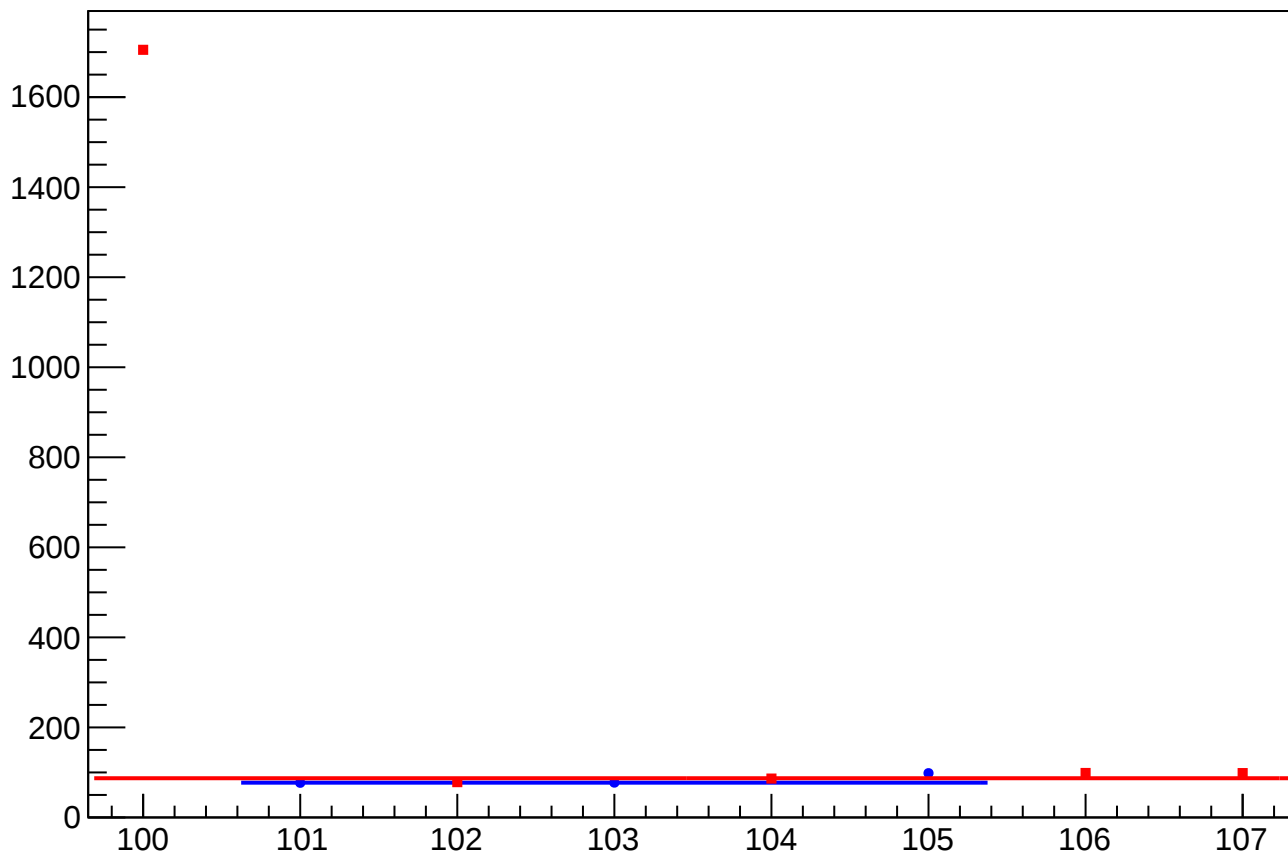
Right Out: -78.701+/-67.136  $\chi^2$ /NDF: 1.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-57.545+/-71.612  $\chi^2$ /NDF: 2.3/2

-78.701+/-67.136  $\chi^2$ /NDF: 1.0/4

# asym\_dsl\_rms vs slug



Right In: 77.272 $\pm$ 0.051  $\chi^2$ /NDF: 898.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

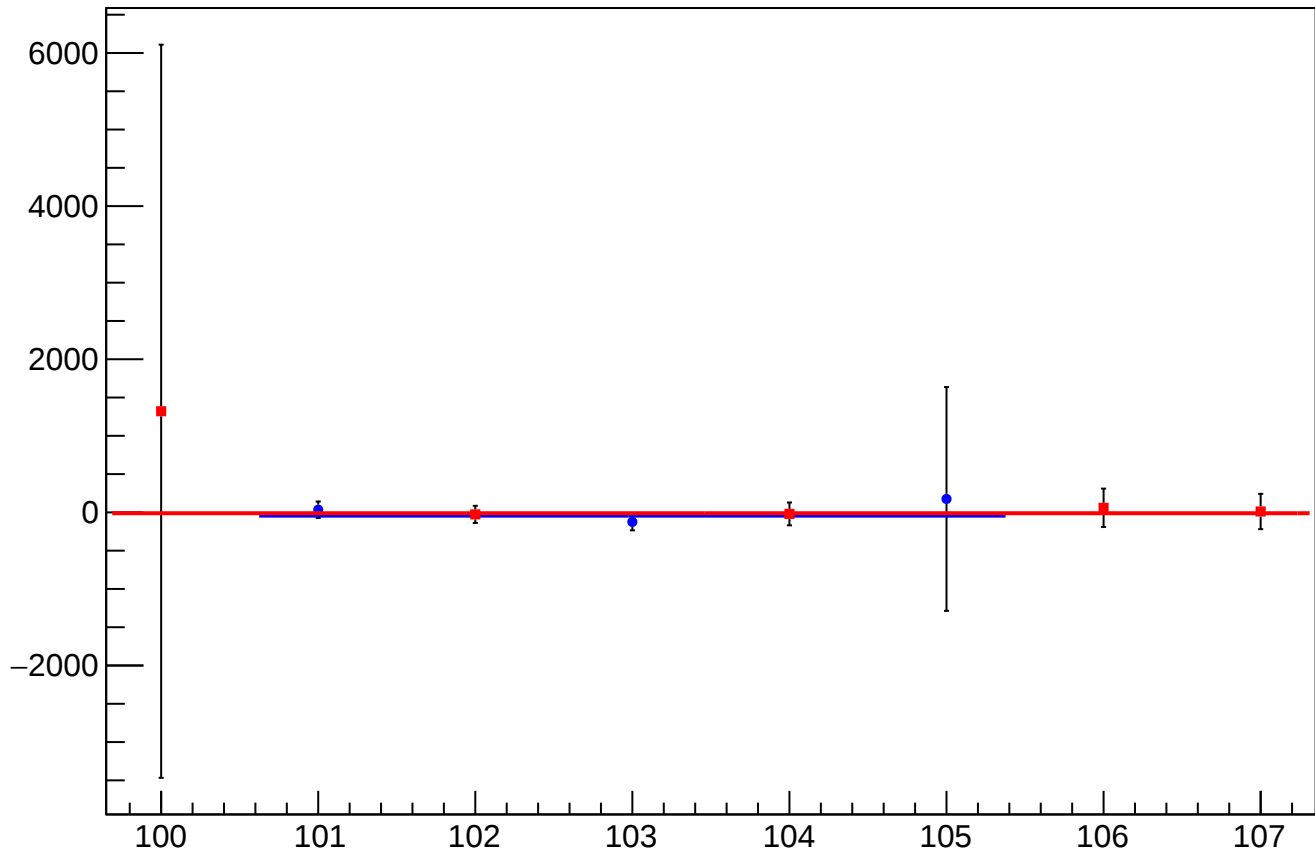
Right Out: 87.116 $\pm$ 0.047  $\chi^2$ /NDF: 158278.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

77.272 $\pm$ 0.051  $\chi^2$ /NDF: 898.1/2

87.116 $\pm$ 0.047  $\chi^2$ /NDF: 158278.3/4

# reg\_asym\_dsr\_mean vs slug



Right In: -42.434+/-76.759  $\chi^2/\text{NDF}$ : 1.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

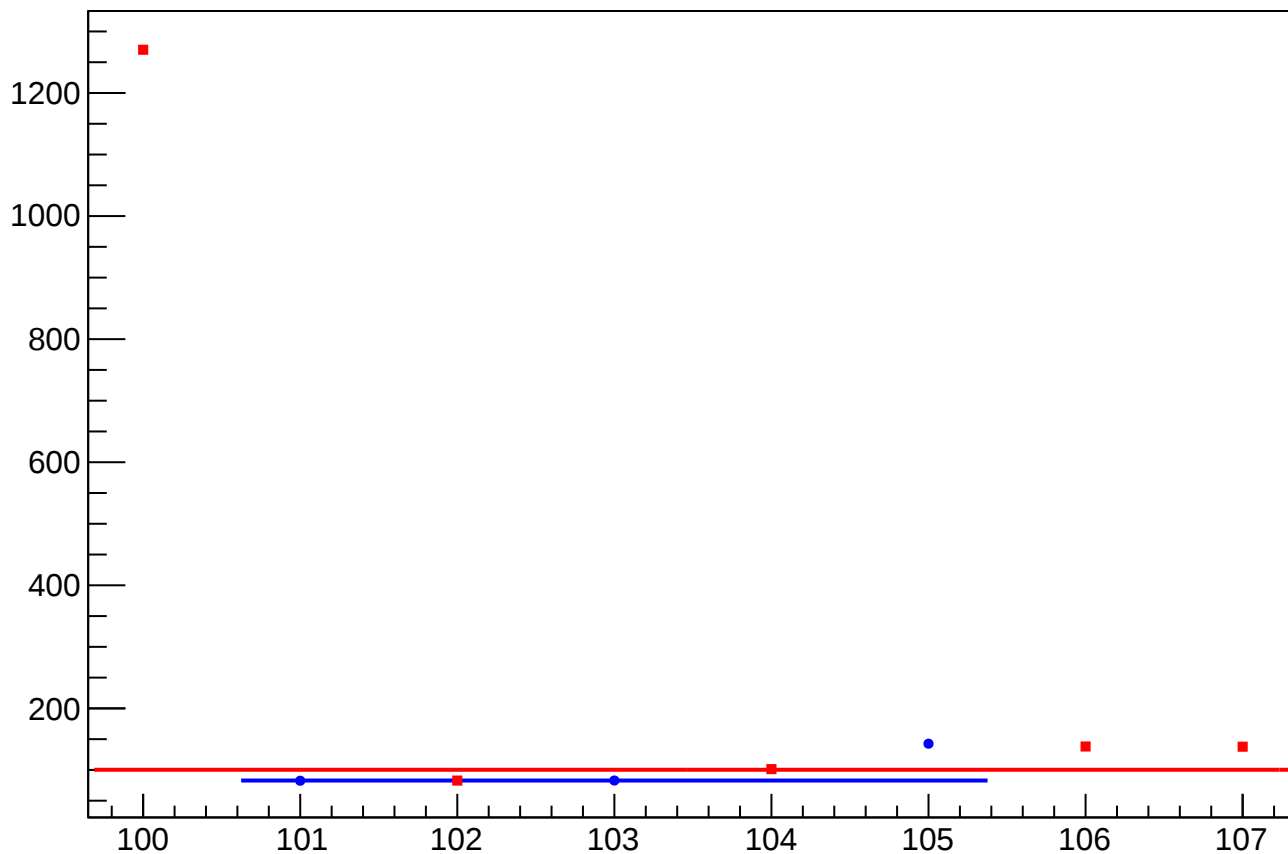
Right Out: -11.156+/-79.096  $\chi^2/\text{NDF}$ : 0.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-42.434+/-76.759  $\chi^2/\text{NDF}$ : 1.1/2

-11.156+/-79.096  $\chi^2/\text{NDF}$ : 0.2/4

# reg\_asym\_dsr\_rms vs slug



Right In: 82.778 $\pm$ 0.054  $\chi^2$ /NDF: 3377.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

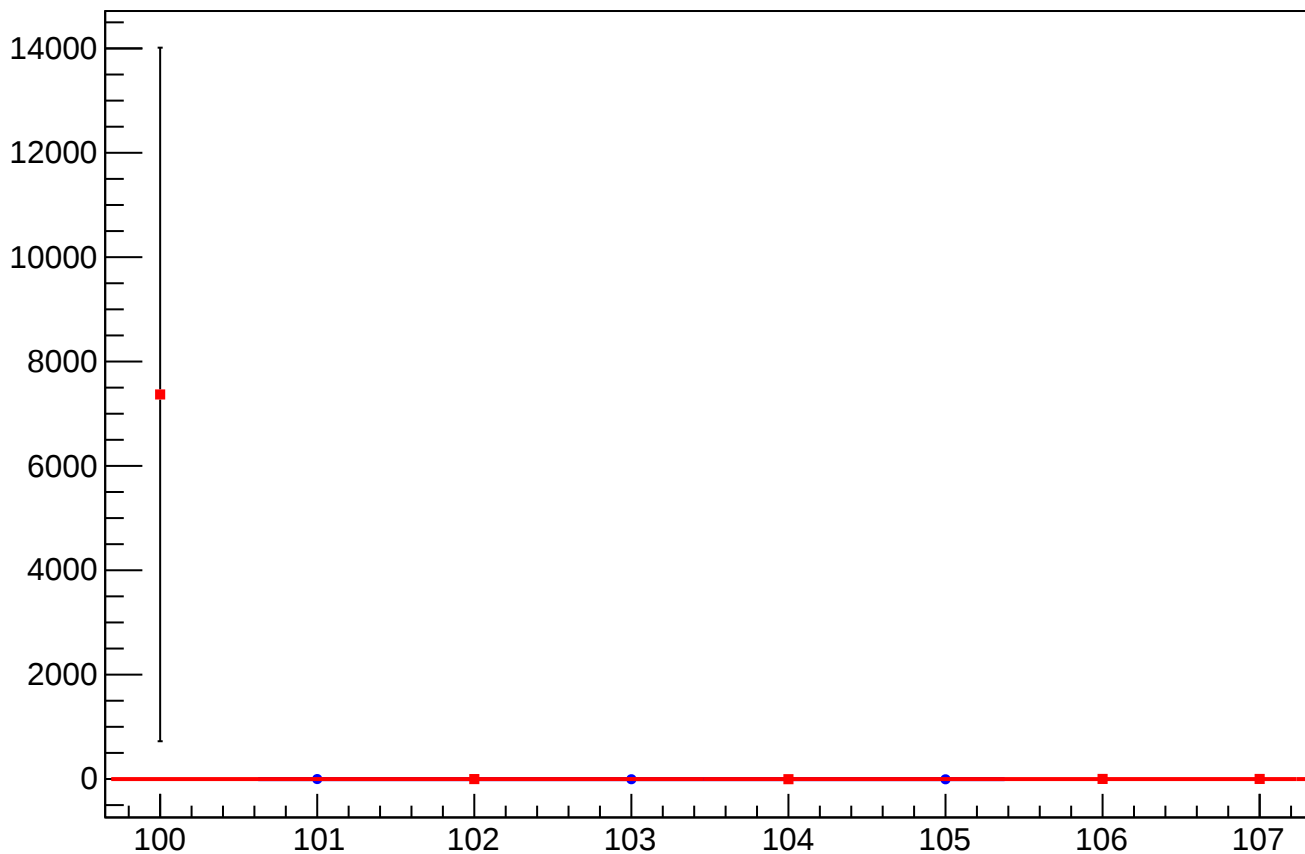
Right Out: 100.238 $\pm$ 0.056  $\chi^2$ /NDF: 267261.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

82.778 $\pm$ 0.054  $\chi^2$ /NDF: 3377.9/2

100.238 $\pm$ 0.056  $\chi^2$ /NDF: 267261.1/4

# asym\_dsr\_correction\_mean vs slug



Right In: -2.611+/-1.392  $\chi^2/\text{NDF}$ : 1.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

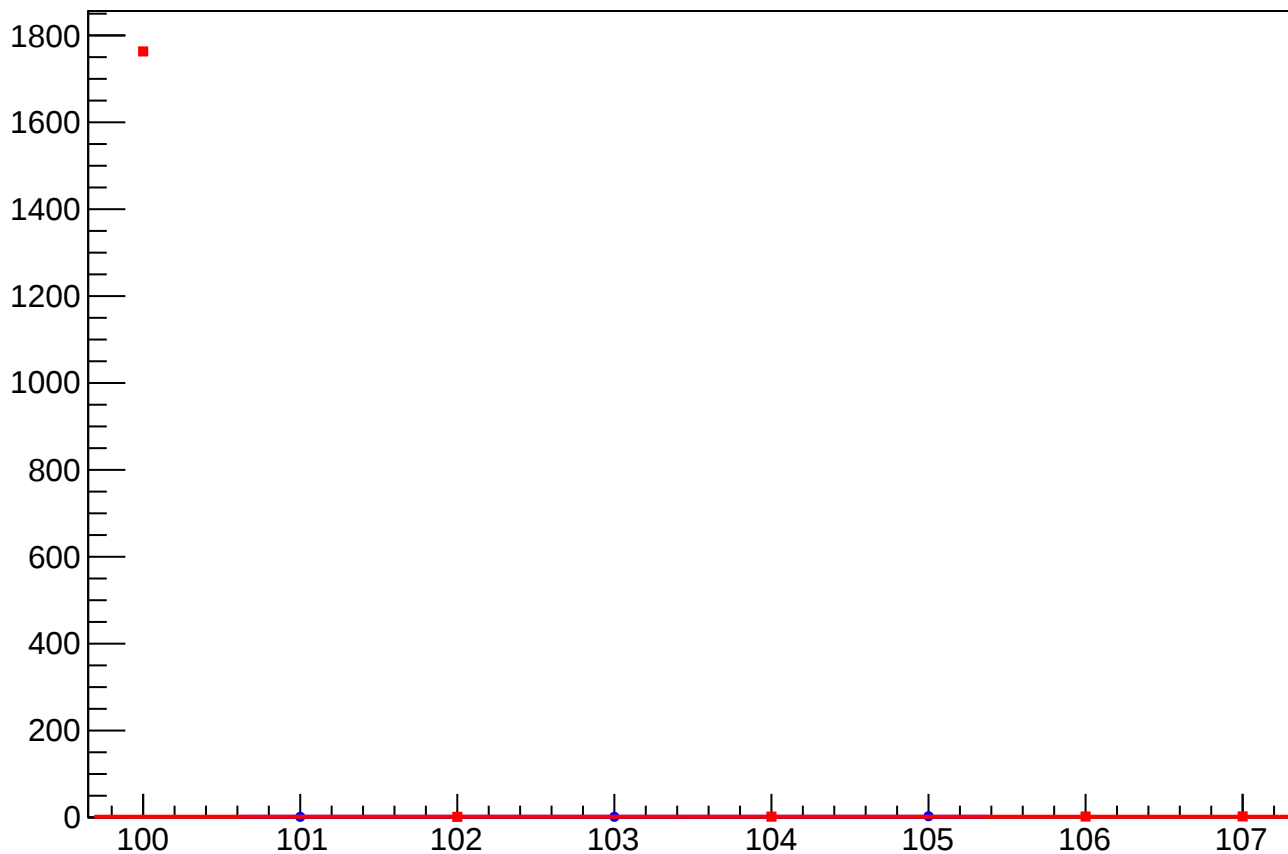
Right Out: -1.426+/-1.448  $\chi^2/\text{NDF}$ : 2.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.611+/-1.392  $\chi^2/\text{NDF}$ : 1.5/2

-1.426+/-1.448  $\chi^2/\text{NDF}$ : 2.4/4

# asym\_dsr\_correction\_rms vs slug



Right In: 1.402 $\pm$ 0.001  $\chi^2$ /NDF: 5935.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

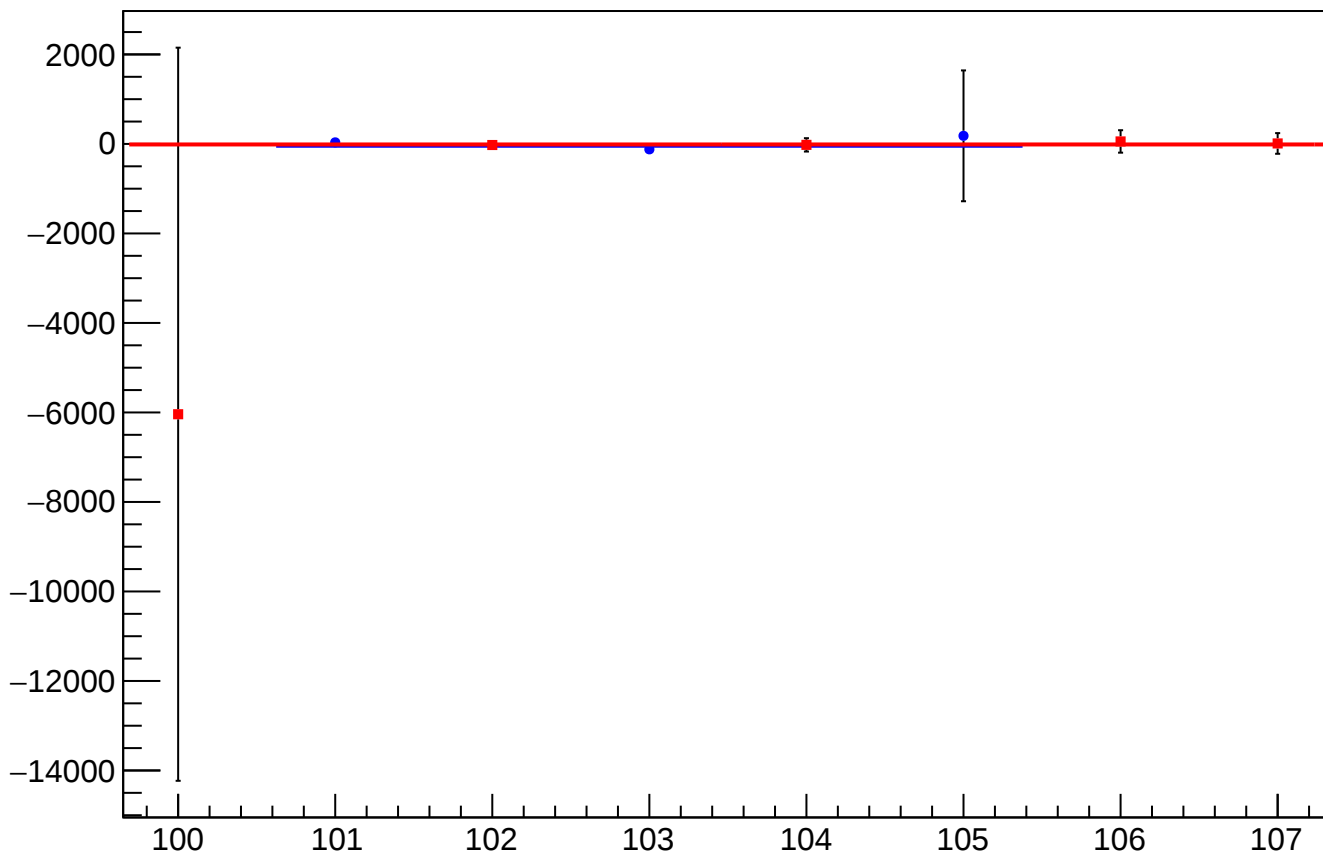
Right Out: 1.695 $\pm$ 0.001  $\chi^2$ /NDF: 278990.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1.402 $\pm$ 0.001  $\chi^2$ /NDF: 5935.2/2

1.695 $\pm$ 0.001  $\chi^2$ /NDF: 278990.3/4

# asym\_dsr\_mean vs slug



Right In: -40.393+/-76.780  $\chi^2$ /NDF: 1.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

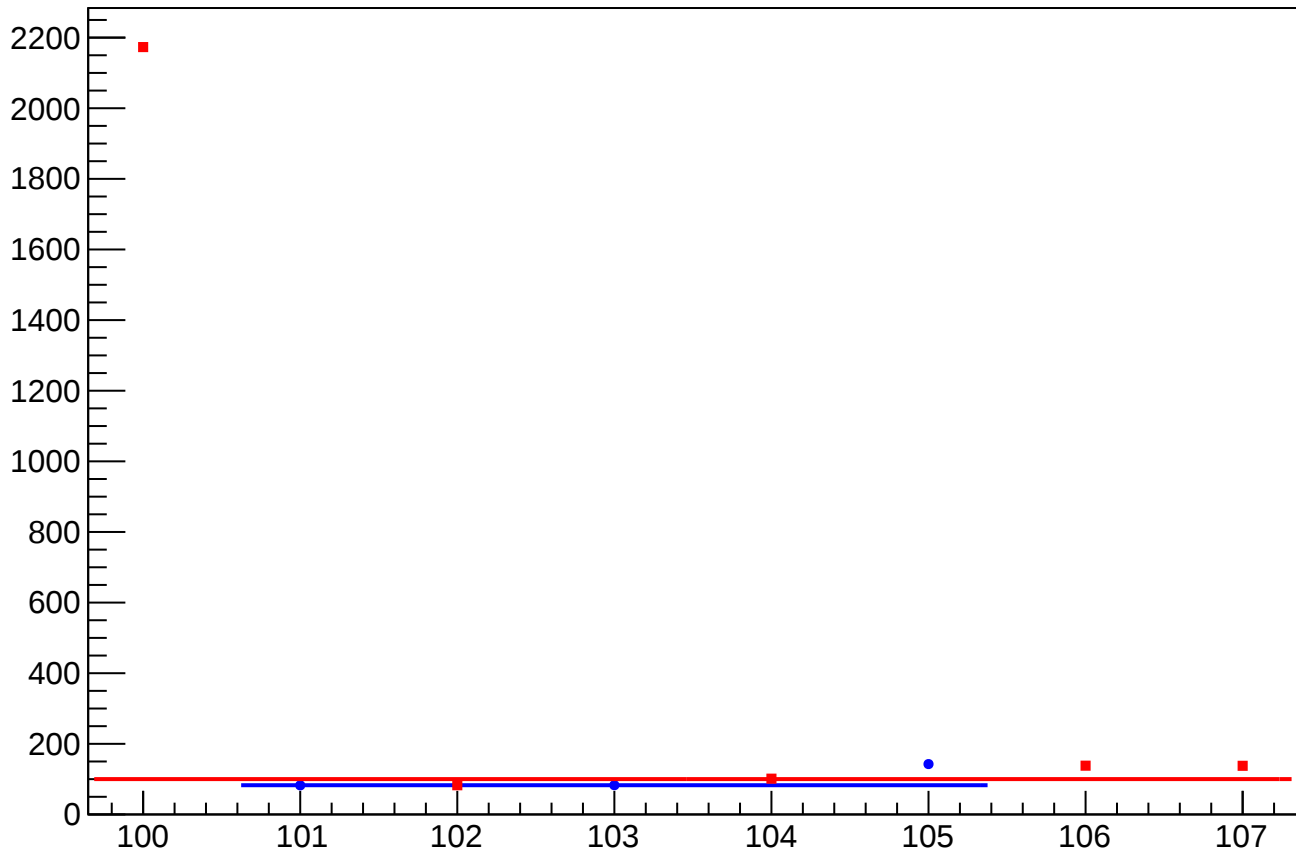
Right Out: -11.725+/-79.125  $\chi^2$ /NDF: 0.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-40.393+/-76.780  $\chi^2$ /NDF: 1.0/2

-11.725+/-79.125  $\chi^2$ /NDF: 0.6/4

# asym\_dsr\_rms vs slug



Right In: 82.799+/-0.054  $\chi^2/\text{NDF}$ : 3377.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

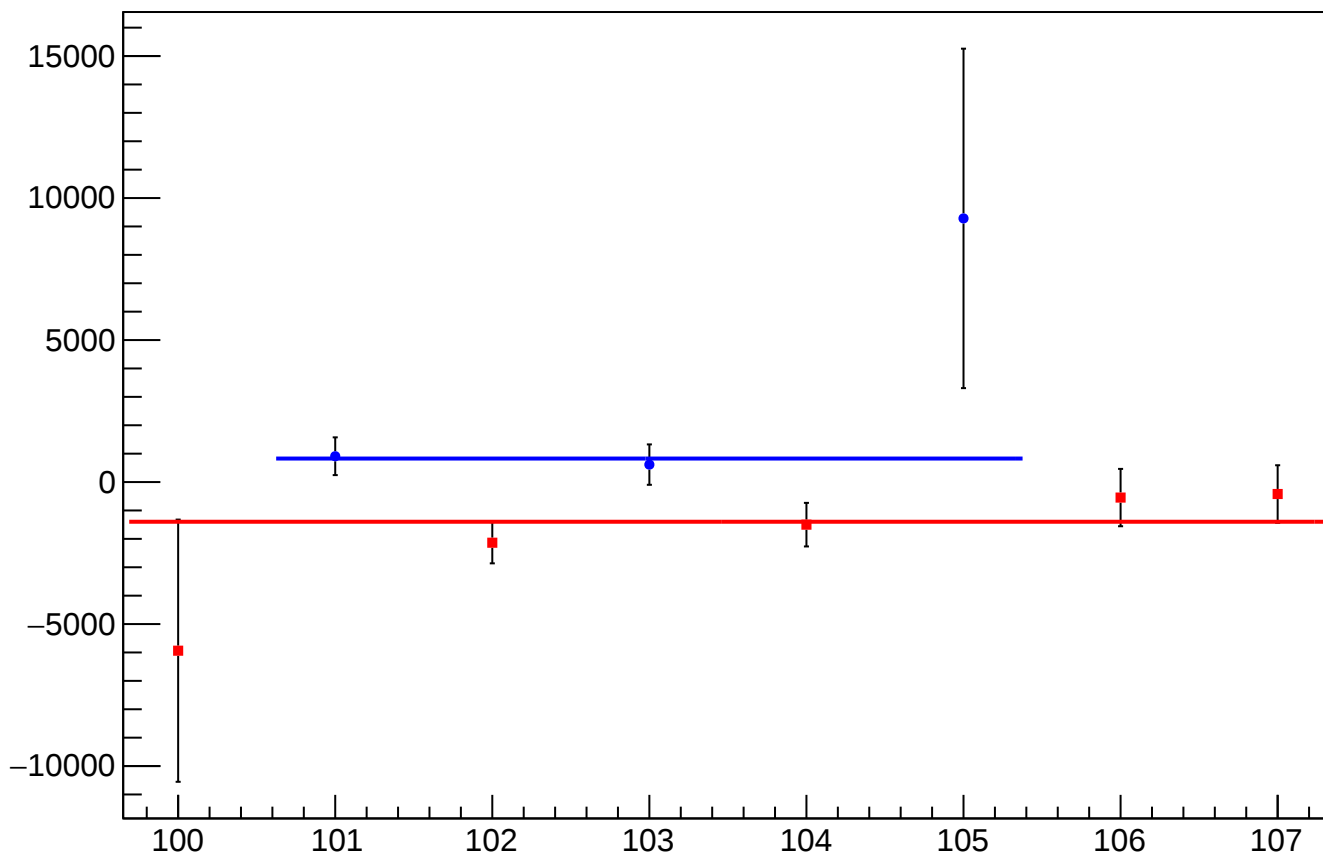
82.799+/-0.054  $\chi^2/\text{NDF}$ : 3377.2/2

Right Out: 100.139+/-0.056  $\chi^2/\text{NDF}$ : 275927.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

100.139+/-0.056  $\chi^2/\text{NDF}$ : 275927.0/4

# reg\_asym\_left\_avg\_mean vs slug



Right In: 827.986+/-484.024  $\chi^2/\text{NDF}$ : 2.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

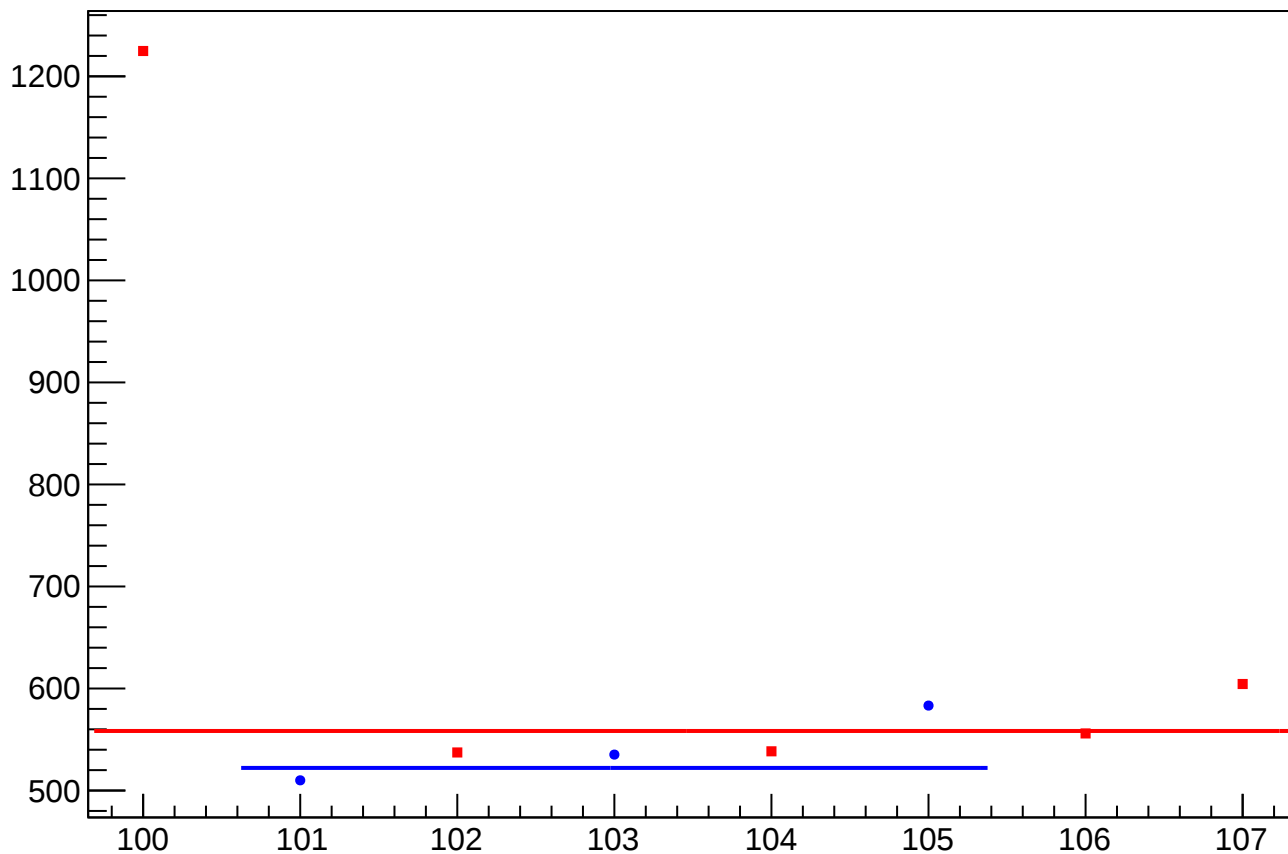
Right Out: -1397.301+/-422.658  $\chi^2/\text{NDF}$ : 3.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

827.986+/-484.024  $\chi^2/\text{NDF}$ : 2.1/2

-1397.301+/-422.658  $\chi^2/\text{NDF}$ : 3.7/4

# reg\_asym\_left\_avg\_rms vs slug



Right In: 522.169+/-0.342  $\chi^2/\text{NDF}$ : 1552.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

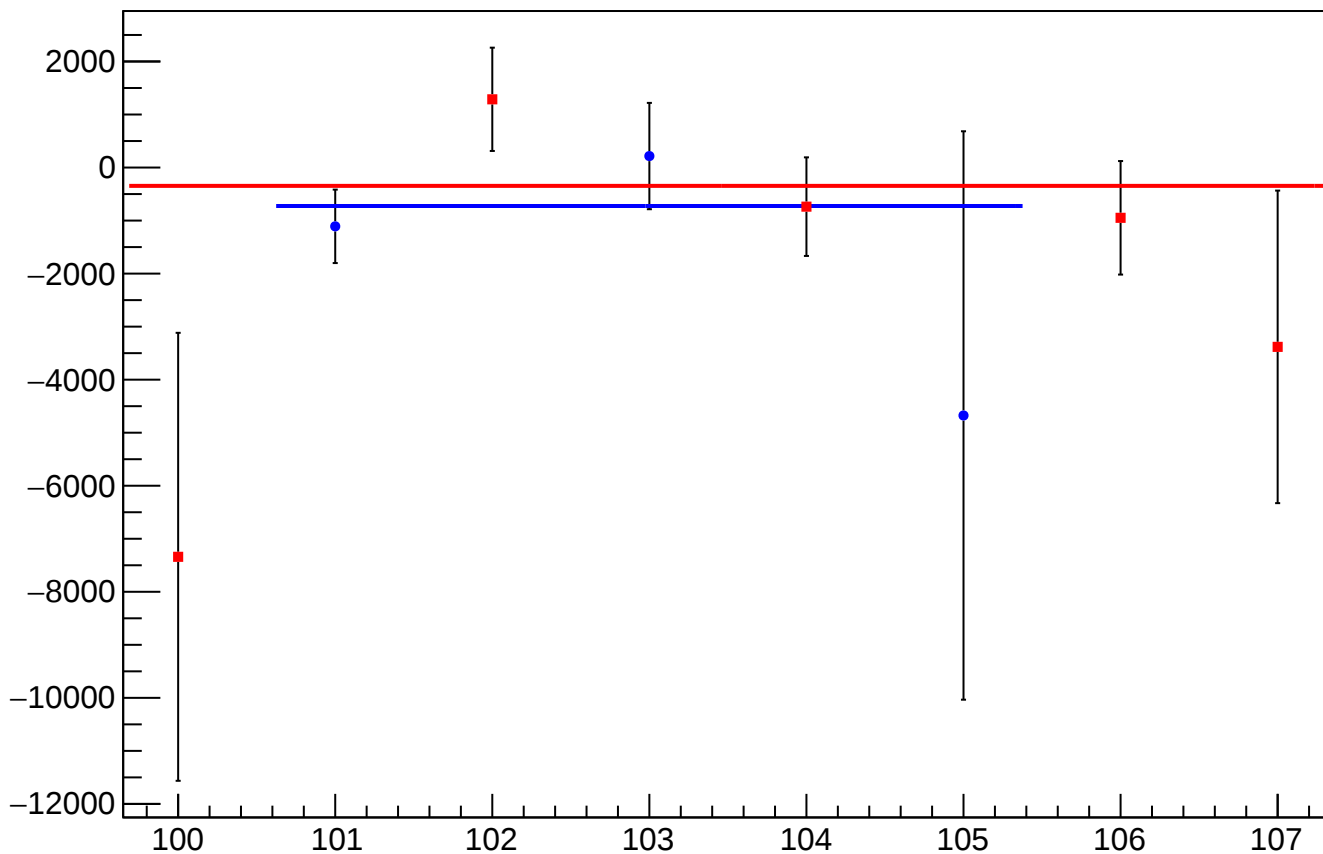
Right Out: 558.376+/-0.299  $\chi^2/\text{NDF}$ : 48863.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

522.169+/-0.342  $\chi^2/\text{NDF}$ : 1552.0/2

558.376+/-0.299  $\chi^2/\text{NDF}$ : 48863.5/4

# asym\_left\_avg\_correction\_mean vs slug



Right In: -725.101+/-566.571  $\chi^2$ /NDF: 1.7/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

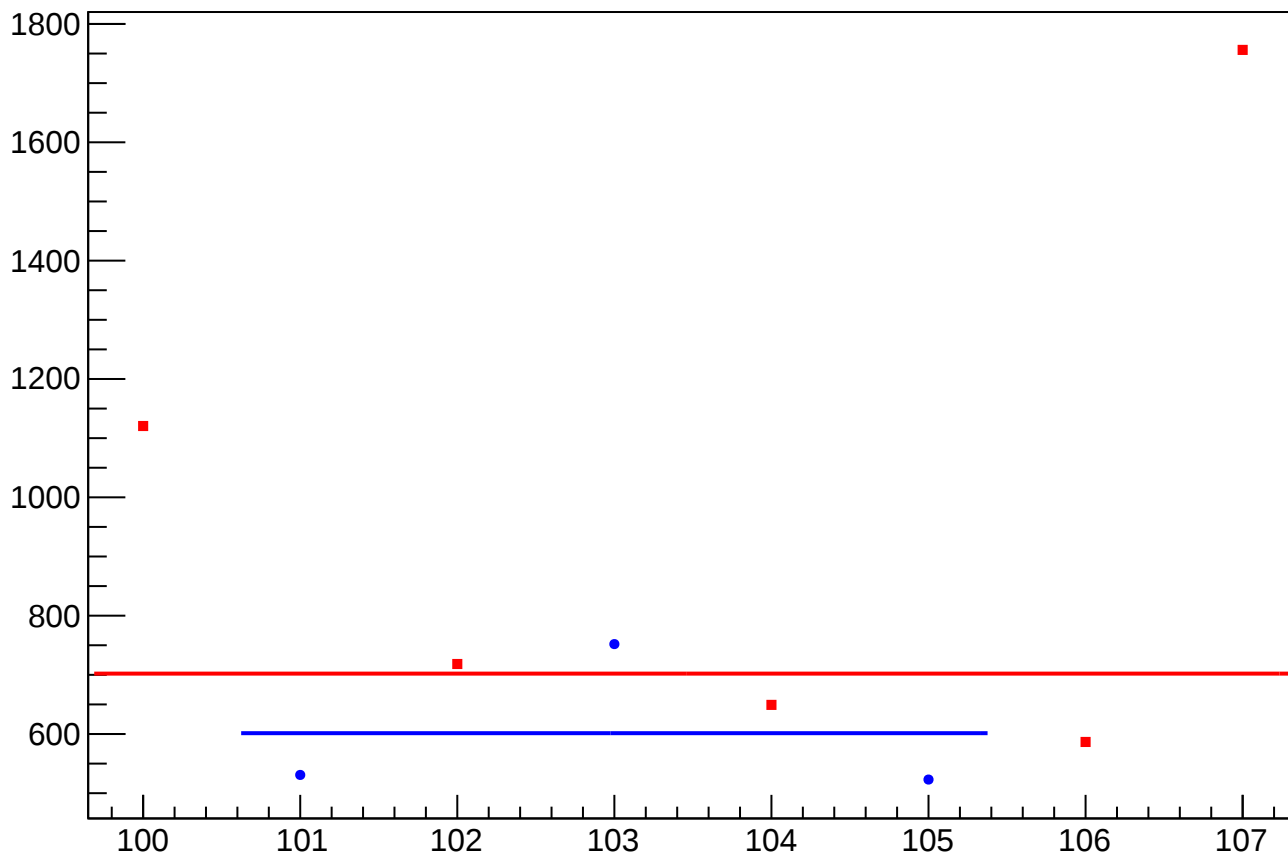
Right Out: -345.556+/-554.224  $\chi^2$ /NDF: 7.1/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-725.101+/-566.571  $\chi^2$ /NDF: 1.7/2

-345.556+/-554.224  $\chi^2$ /NDF: 7.1/4

# asym\_left\_avg\_correction\_rms vs slug



Right In: 601.406 $\pm$ 0.401  $\chi^2$ /NDF: 66301.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

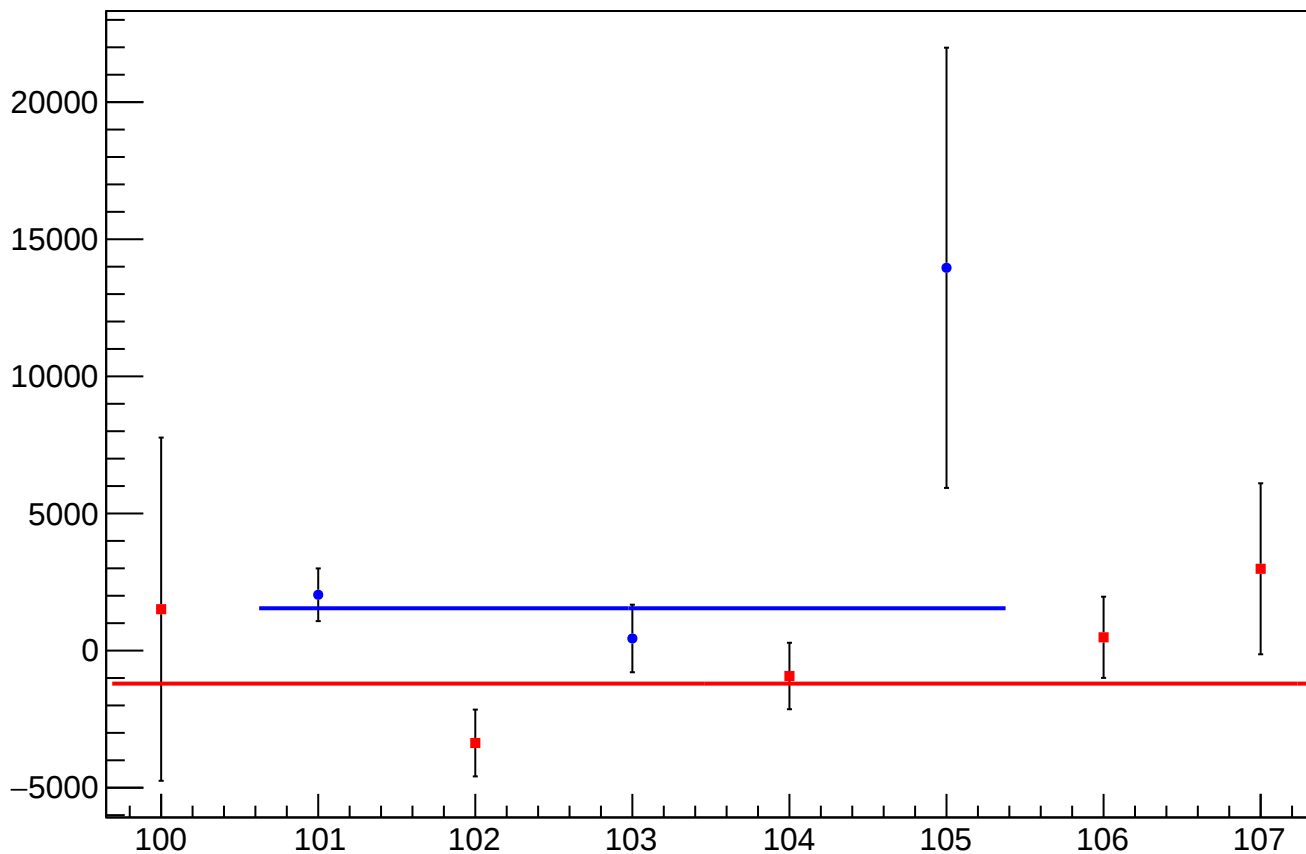
Right Out: 702.084 $\pm$ 0.392  $\chi^2$ /NDF: 305821.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

601.406 $\pm$ 0.401  $\chi^2$ /NDF: 66301.7/2

702.084 $\pm$ 0.392  $\chi^2$ /NDF: 305821.4/4

# asym\_left\_avg\_mean vs slug



Right In: 1543.637+/-754.453  $\chi^2/\text{NDF}$ : 3.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

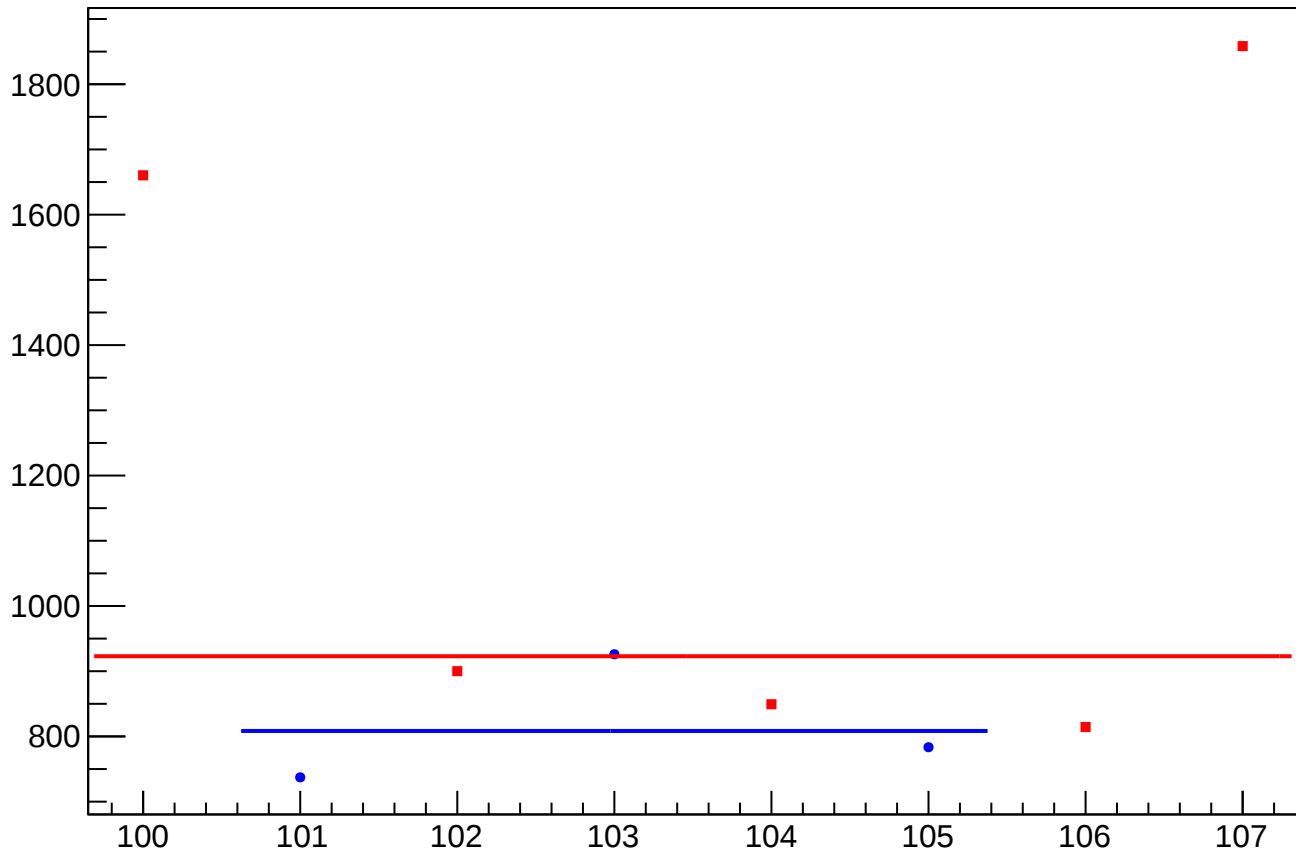
Right Out: -1204.137+/-718.090  $\chi^2/\text{NDF}$ : 6.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1543.637+/-754.453  $\chi^2/\text{NDF}$ : 3.5/2

-1204.137+/-718.090  $\chi^2/\text{NDF}$ : 6.5/4

# asym\_left\_avg\_rms vs slug



Right In: 808.407 $\pm$ 0.533  $\chi^2$ /NDF: 29191.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

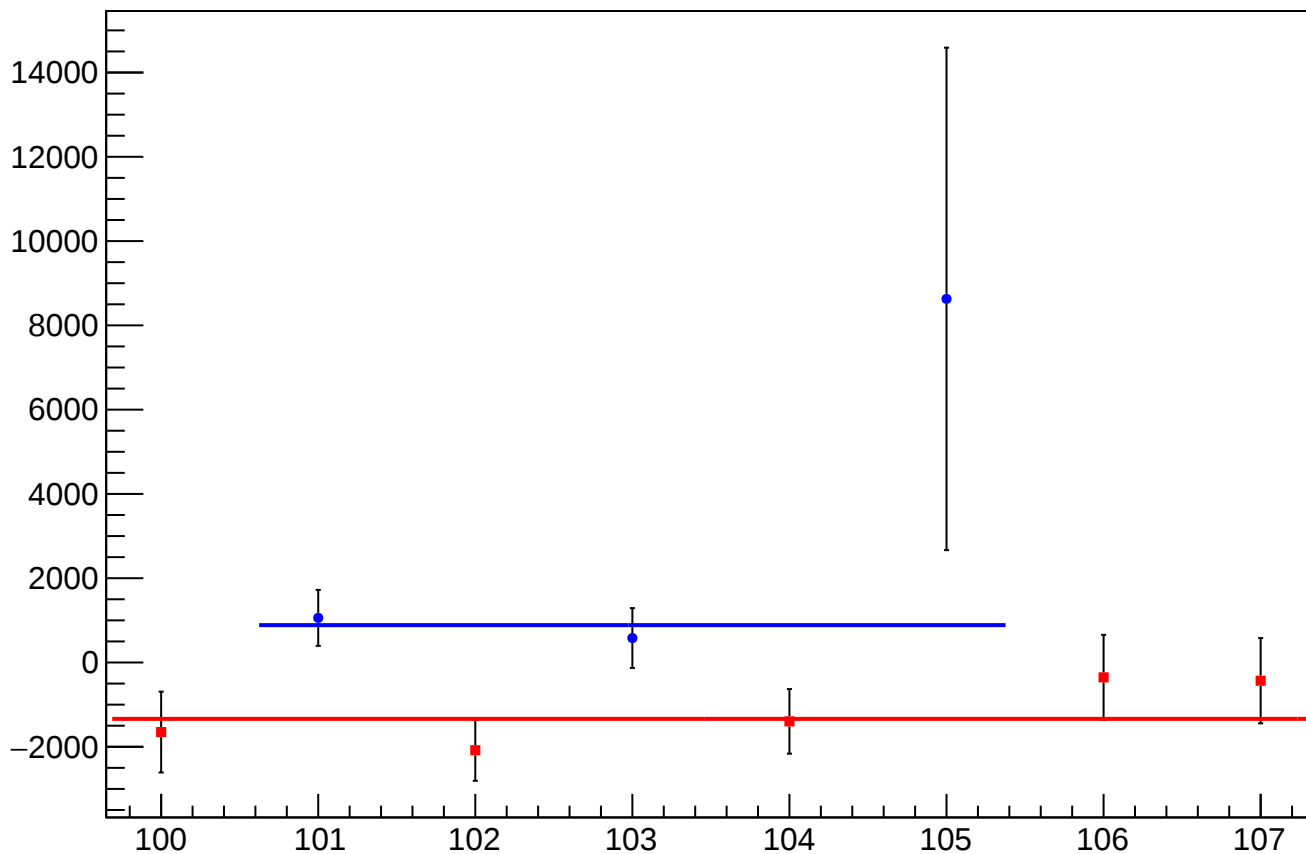
808.407 $\pm$ 0.533  $\chi^2$ /NDF: 29191.1/2

Right Out: 922.949 $\pm$ 0.508  $\chi^2$ /NDF: 226688.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

922.949 $\pm$ 0.508  $\chi^2$ /NDF: 226688.4/4

# reg\_asym\_left\_dd\_mean vs slug



Right In: 886.840+/-483.623  $\chi^2/\text{NDF}$ : 1.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

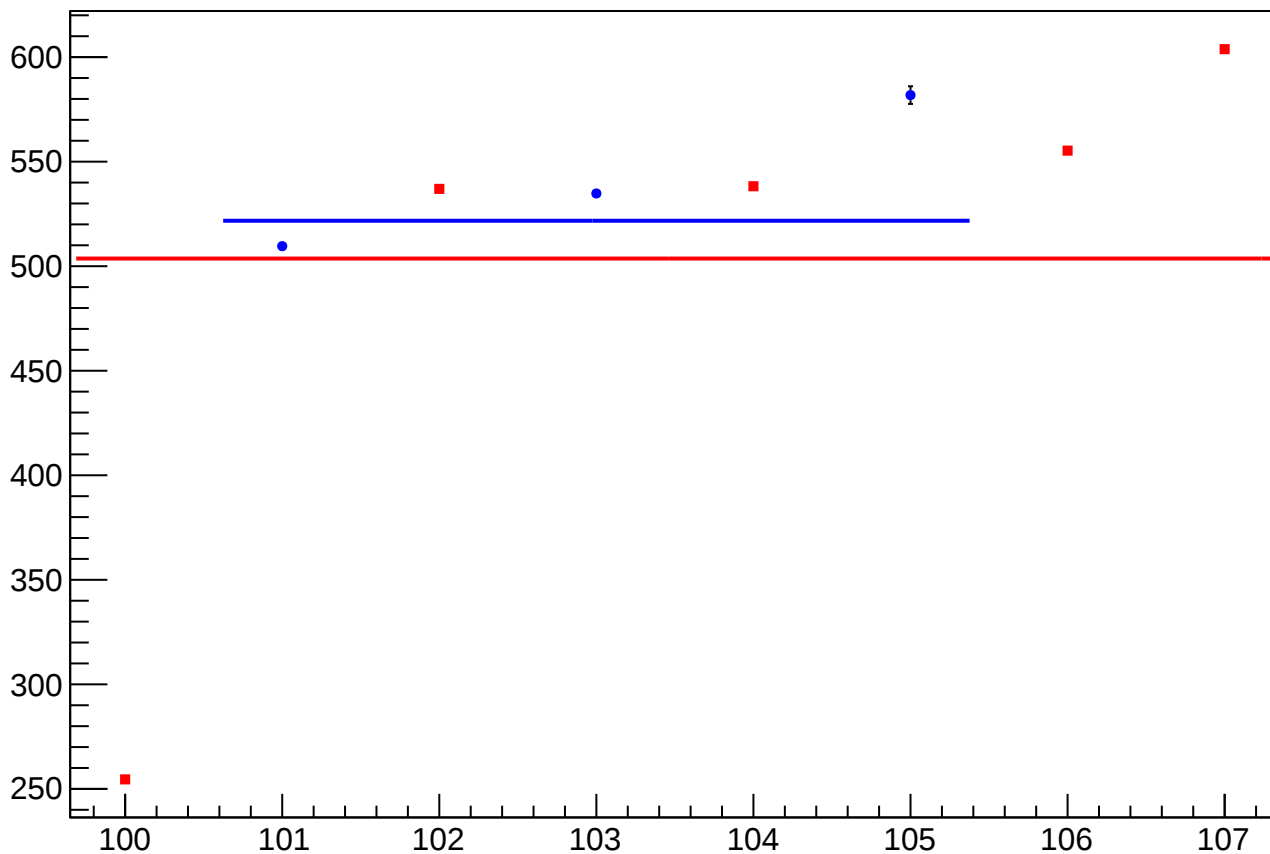
Right Out: -1337.680+/-387.918  $\chi^2/\text{NDF}$ : 2.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

886.840+/-483.623  $\chi^2/\text{NDF}$ : 1.9/2

-1337.680+/-387.918  $\chi^2/\text{NDF}$ : 2.9/4

# reg\_asym\_left\_dd\_rms vs slug



Right In: 521.736+/-0.342  $\chi^2/\text{NDF}$ : 1545.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

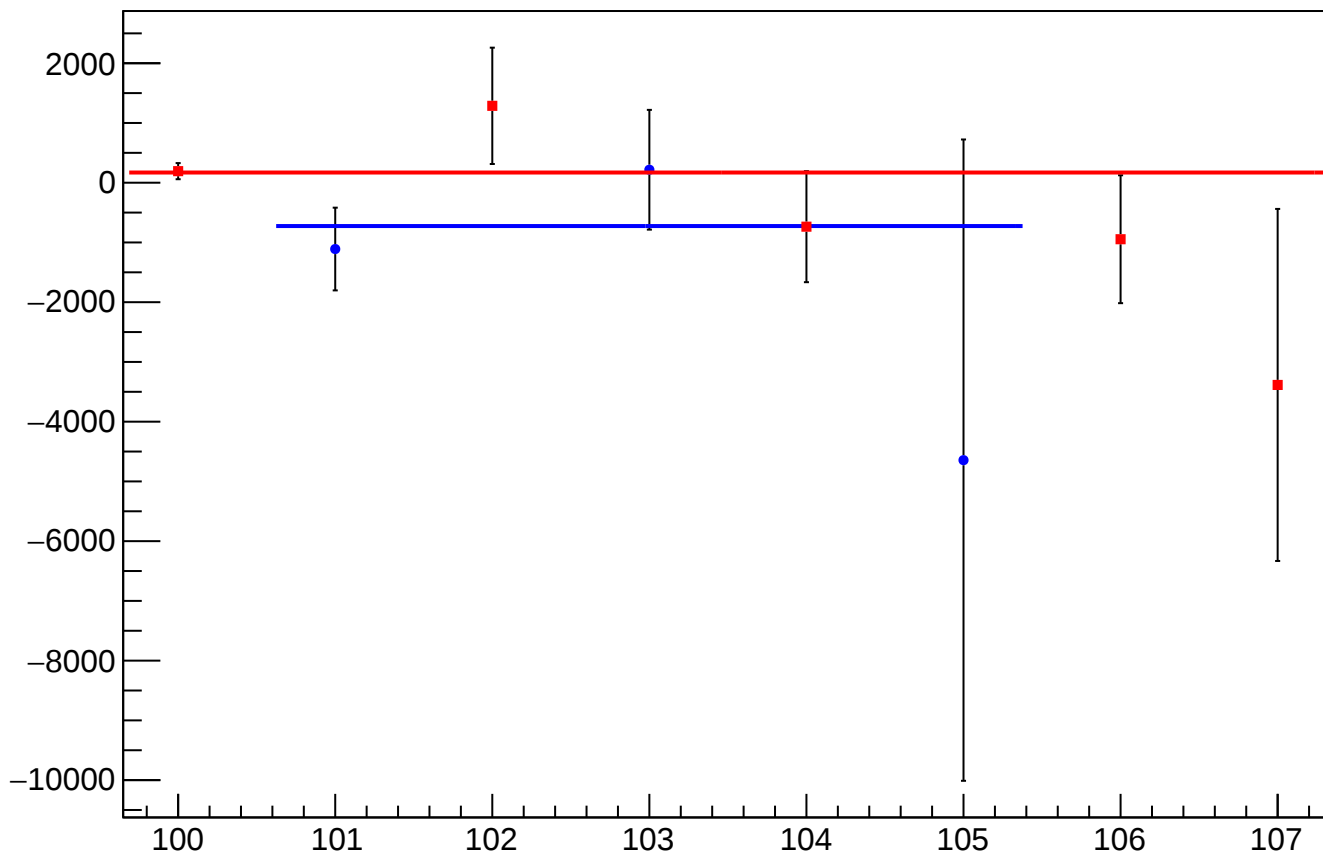
521.736+/-0.342  $\chi^2/\text{NDF}$ : 1545.9/2

Right Out: 503.662+/-0.274  $\chi^2/\text{NDF}$ : 167959.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

503.662+/-0.274  $\chi^2/\text{NDF}$ : 167959.5/4

# asym\_left\_dd\_correction\_mean vs slug



Right In: -725.433+/-566.453  $\chi^2$ /NDF: 1.7/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

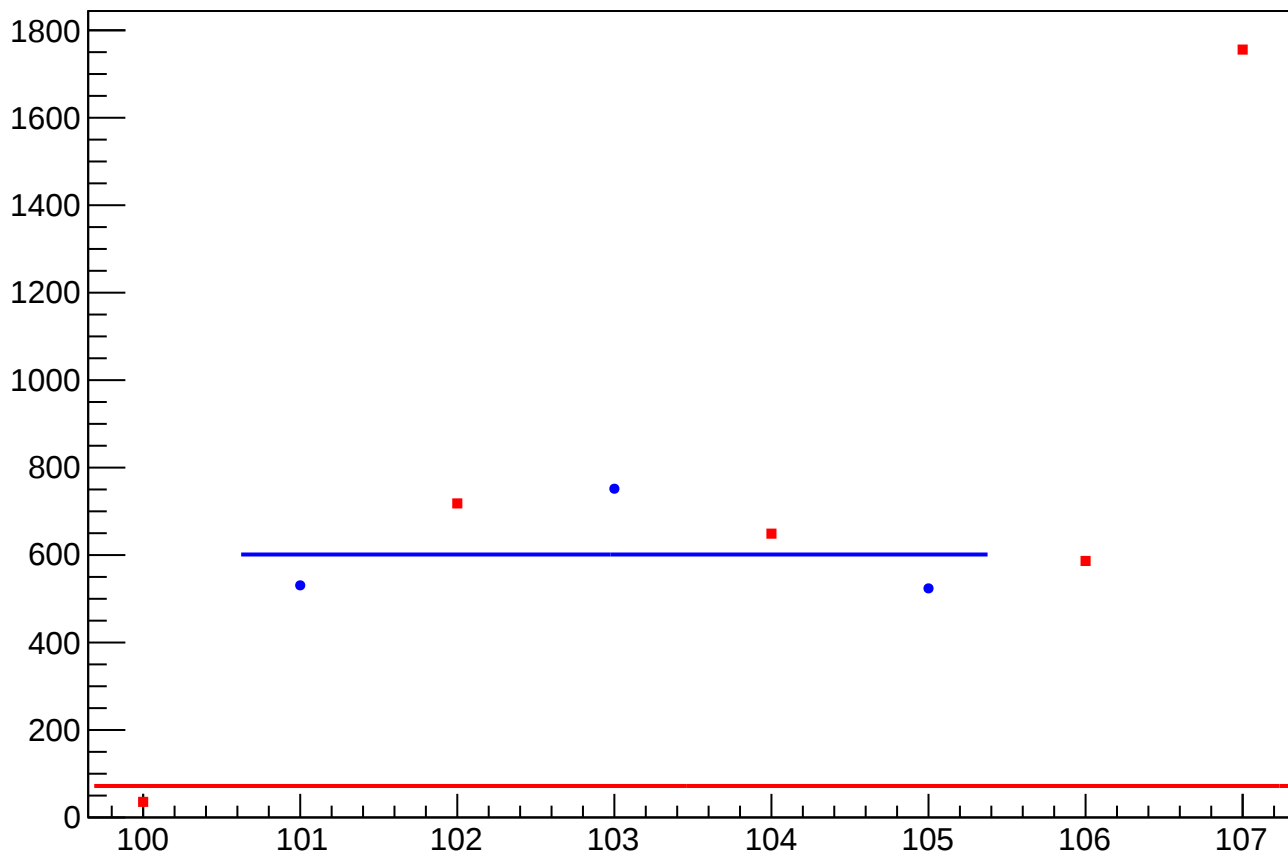
Right Out: 170.607+/-131.194  $\chi^2$ /NDF: 4.8/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-725.433+/-566.453  $\chi^2$ /NDF: 1.7/2

170.607+/-131.194  $\chi^2$ /NDF: 4.8/4

# asym\_left\_dd\_correction\_rms vs slug



Right In: 601.293+/-0.401  $\chi^2/\text{NDF}$ : 66233.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

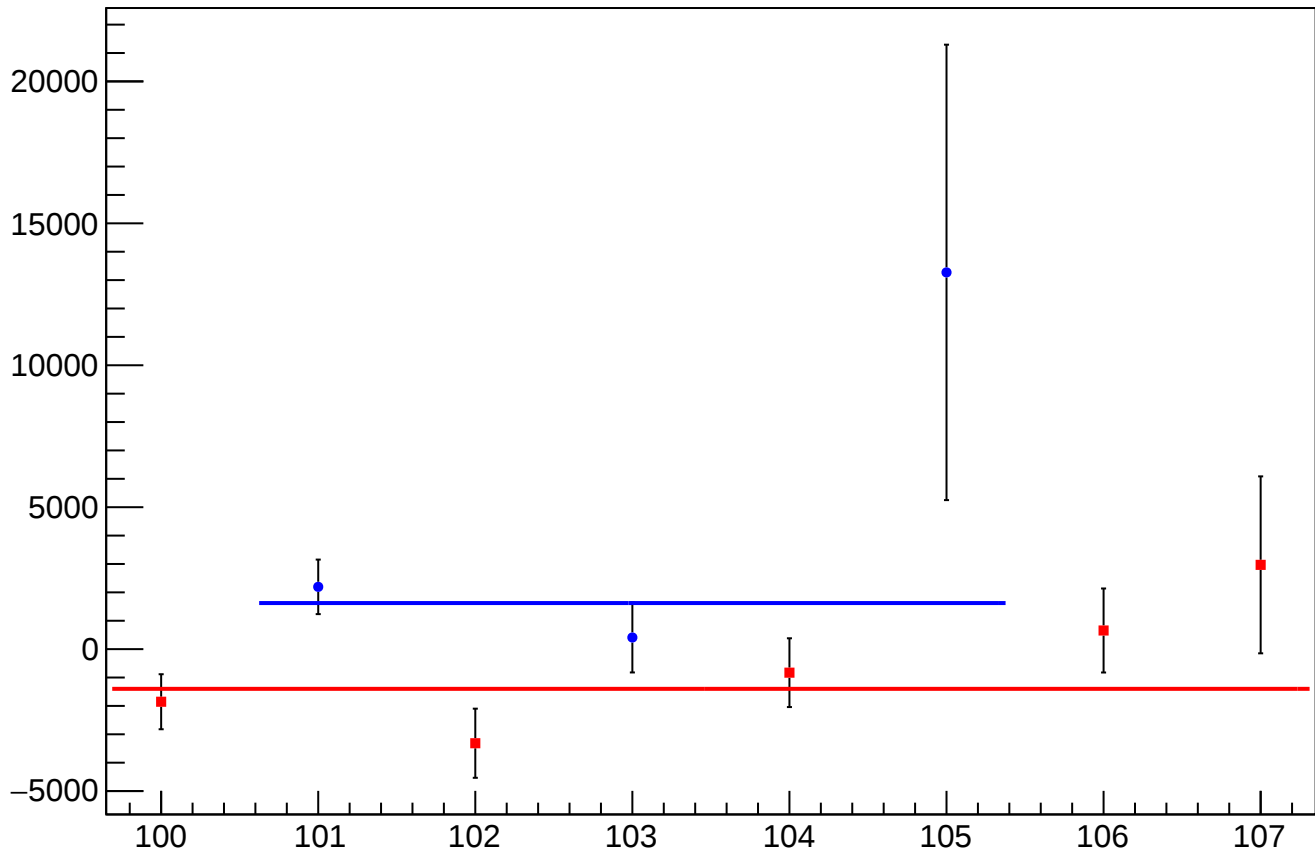
Right Out: 71.989+/-0.093  $\chi^2/\text{NDF}$ : 2912255.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

601.293+/-0.401  $\chi^2/\text{NDF}$ : 66233.3/2

71.989+/-0.093  $\chi^2/\text{NDF}$ : 2912255.2/4

# asym\_left\_dd\_mean vs slug



Right In: 1623.217+/-754.080  $\chi^2$ /NDF: 3.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

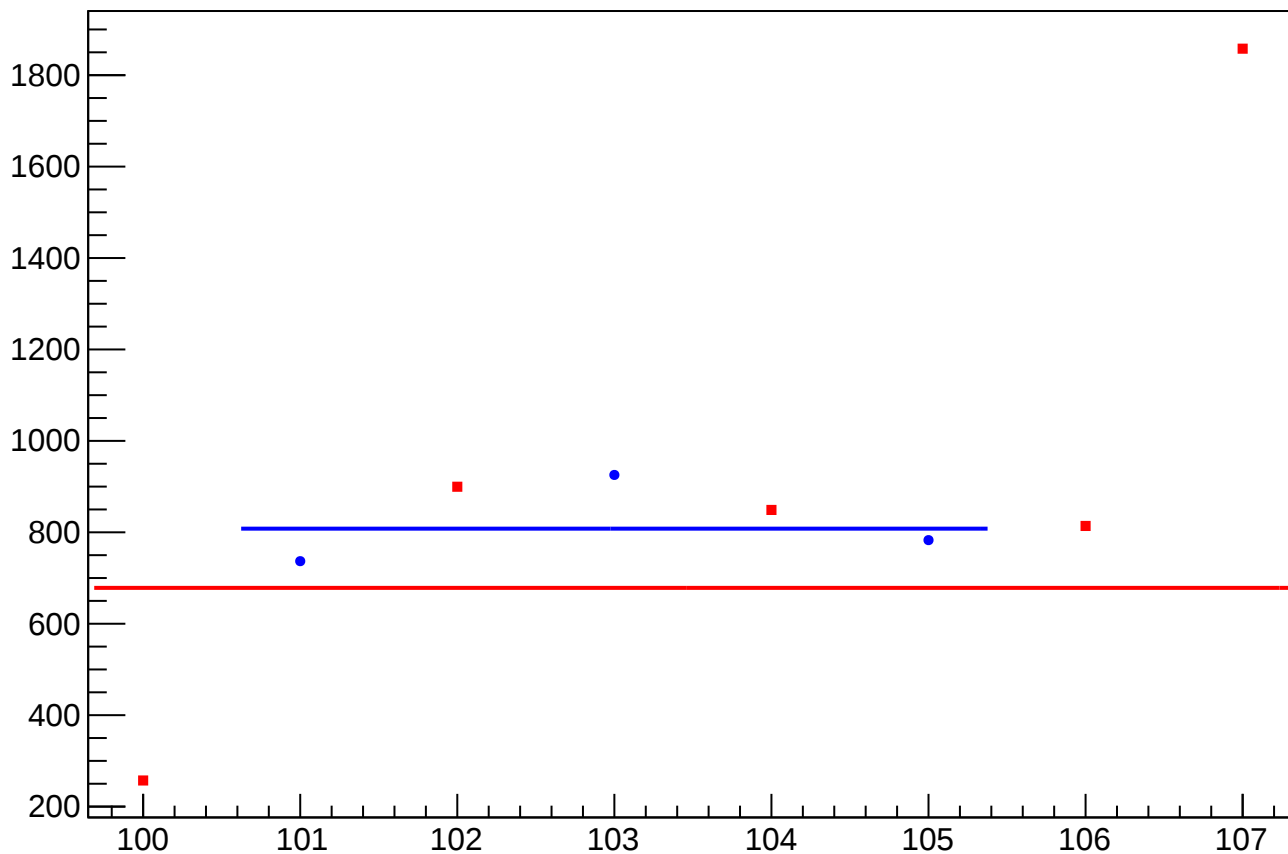
1623.217+/-754.080  $\chi^2$ /NDF: 3.4/2

Right Out: -1398.638+/-579.260  $\chi^2$ /NDF: 6.8/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1398.638+/-579.260  $\chi^2$ /NDF: 6.8/4

# asym\_left\_dd\_rms vs slug



Right In: 808.007+/-0.533  $\chi^2/\text{NDF}$ : 29186.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

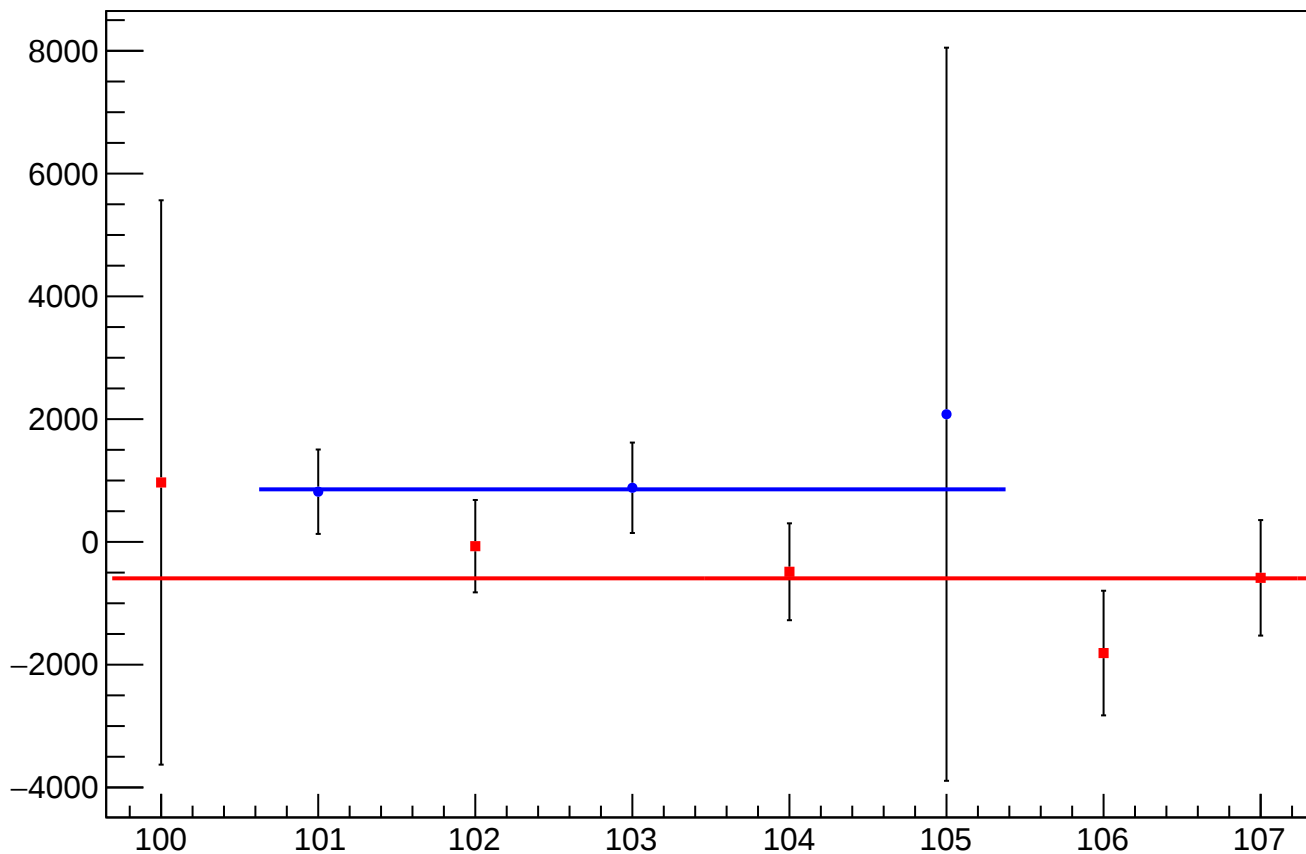
Right Out: 678.471+/-0.410  $\chi^2/\text{NDF}$ : 786869.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

808.007+/-0.533  $\chi^2/\text{NDF}$ : 29186.2/2

678.471+/-0.410  $\chi^2/\text{NDF}$ : 786869.8/4

# reg\_asym\_right\_avg\_mean vs slug



Right In: 856.162+/-500.749  $\chi^2/\text{NDF}$ : 0.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

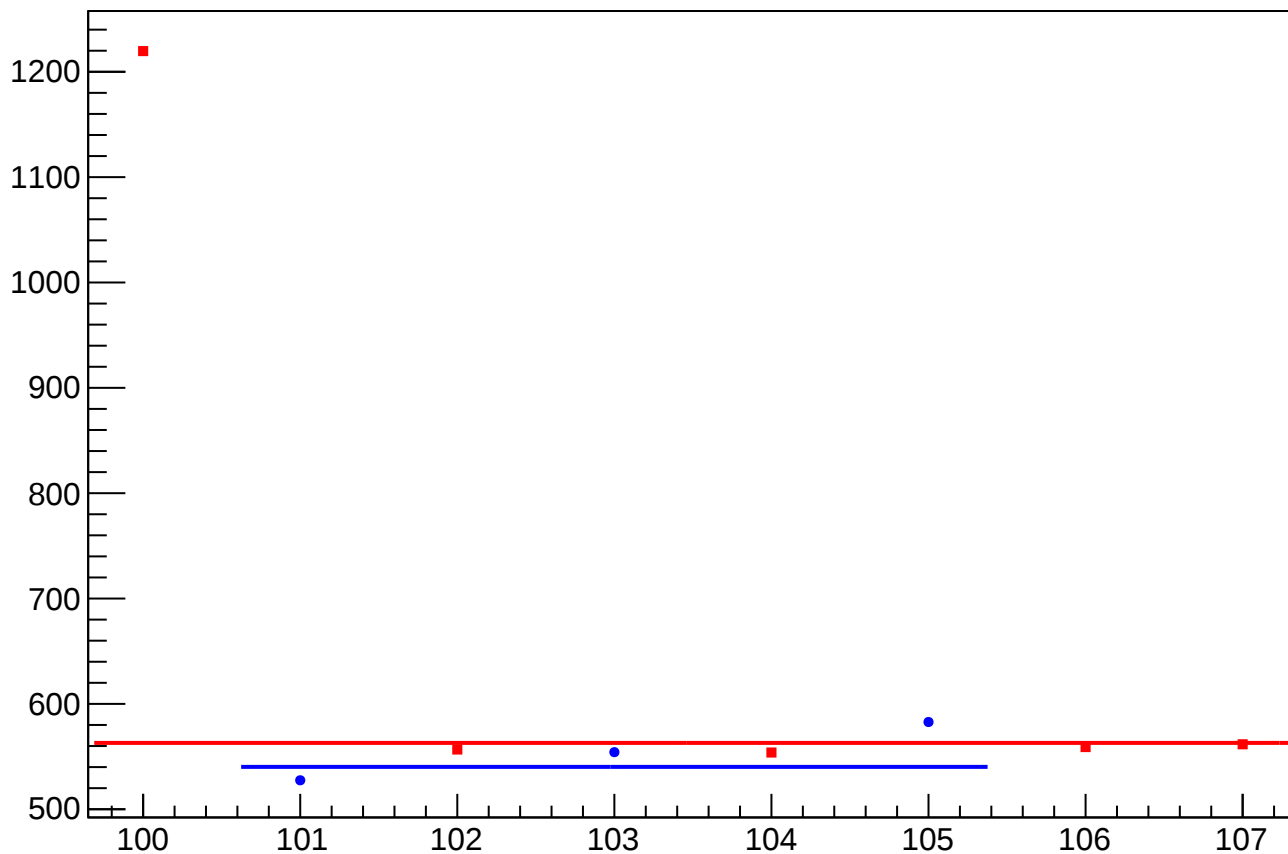
Right Out: -593.651+/-425.663  $\chi^2/\text{NDF}$ : 2.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

856.162+/-500.749  $\chi^2/\text{NDF}$ : 0.0/2

-593.651+/-425.663  $\chi^2/\text{NDF}$ : 2.1/4

# reg\_asym\_right\_avg\_rms vs slug



Right In: 540.214 $\pm$ 0.354  $\chi^2$ /NDF: 1507.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

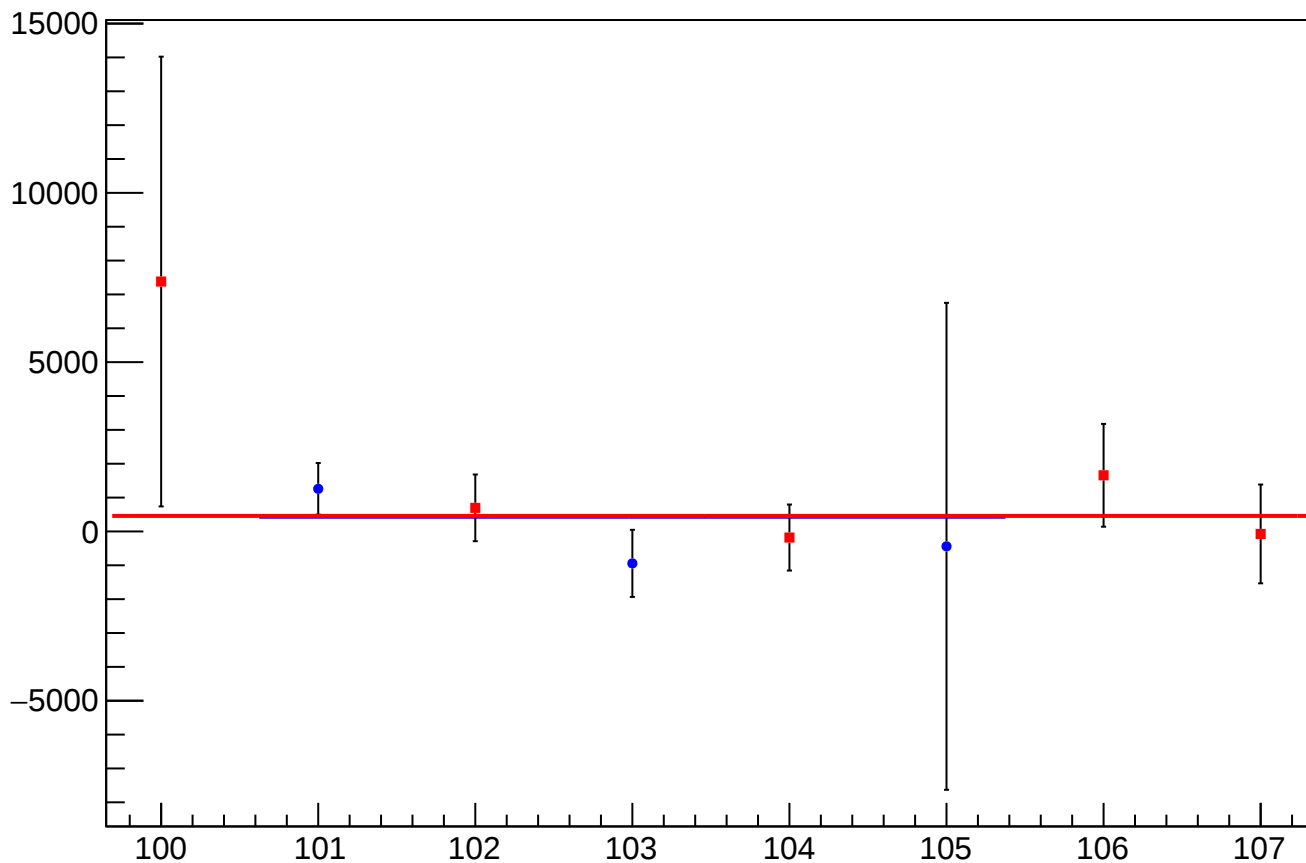
Right Out: 562.973 $\pm$ 0.301  $\chi^2$ /NDF: 41254.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

540.214 $\pm$ 0.354  $\chi^2$ /NDF: 1507.1/2

562.973 $\pm$ 0.301  $\chi^2$ /NDF: 41254.9/4

asym\_right\_avg\_correction\_mean vs slug



Right In: 434.937+/-601.812  $\chi^2/\text{NDF}$ : 3.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

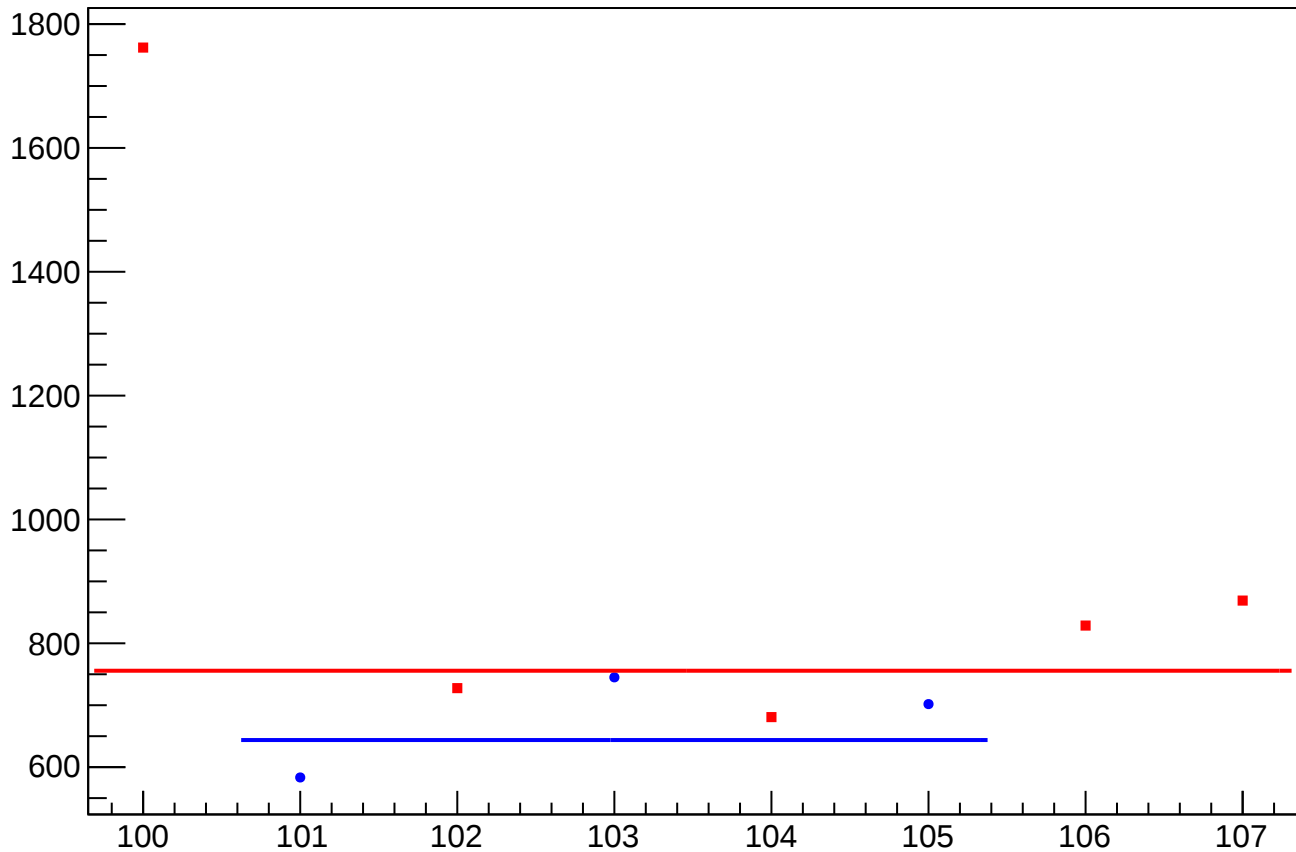
Right Out: 458.779+/-576.443  $\chi^2/\text{NDF}$ : 2.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

434.937+/-601.812  $\chi^2/\text{NDF}$ : 3.1/2

458.779+/-576.443  $\chi^2/\text{NDF}$ : 2.3/4

# asym\_right\_avg\_correction\_rms vs slug



Right In: 643.779+/-0.426  $\chi^2/\text{NDF}$ : 33594.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

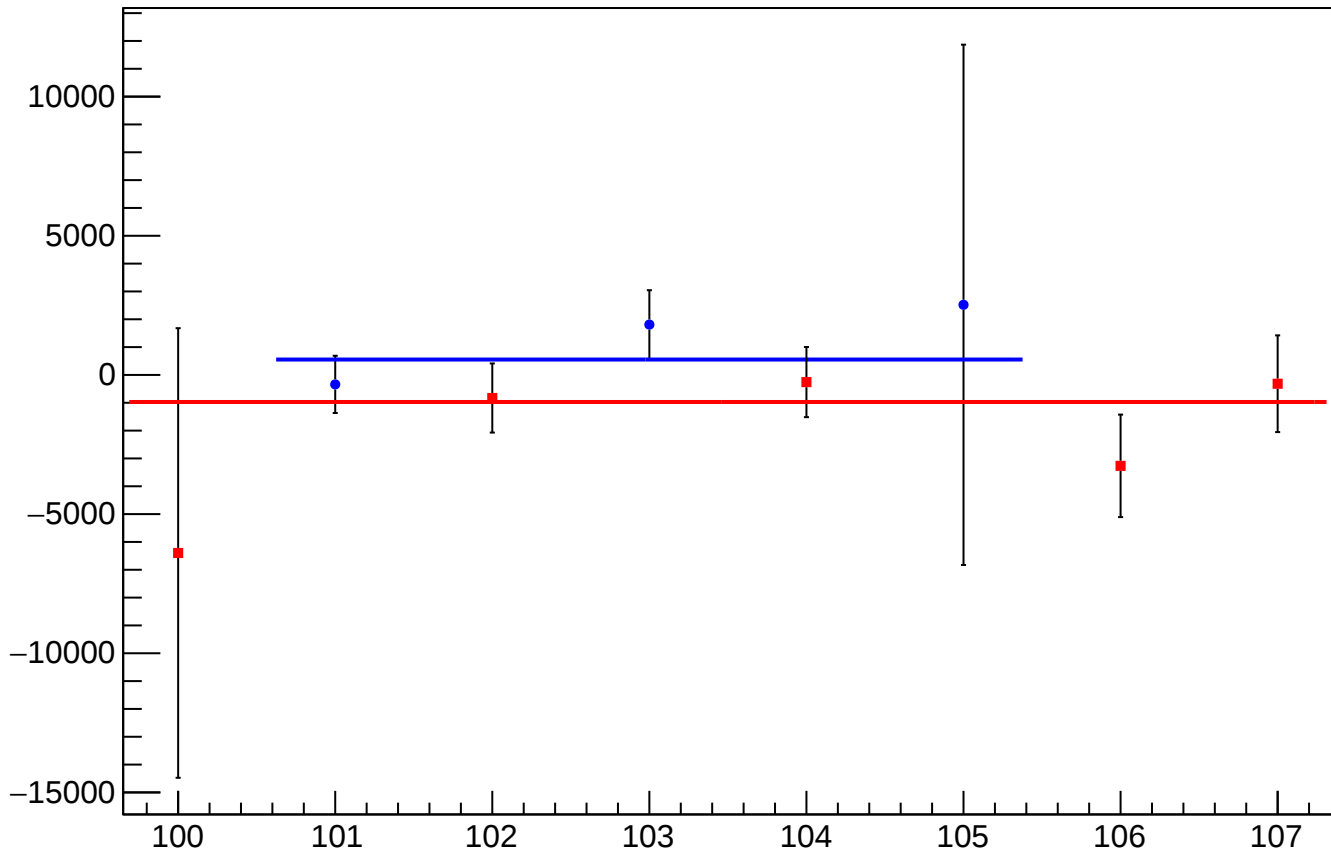
643.779+/-0.426  $\chi^2/\text{NDF}$ : 33594.2/2

Right Out: 755.705+/-0.408  $\chi^2/\text{NDF}$ : 76037.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

755.705+/-0.408  $\chi^2/\text{NDF}$ : 76037.8/4

asym\_right\_avg\_mean vs slug



Right In: 553.706+/-787.758  $\chi^2/\text{NDF}$ : 1.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

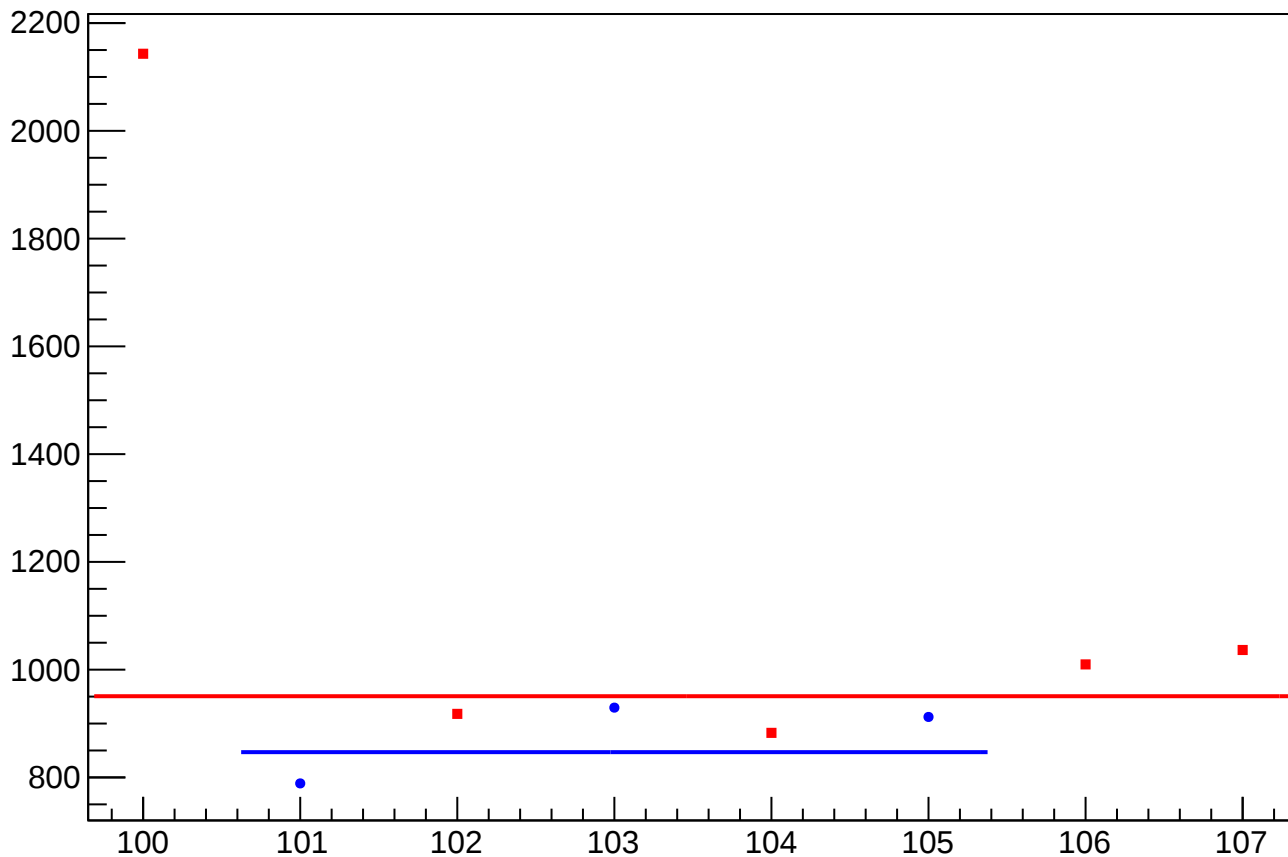
Right Out: -971.709+/-721.726  $\chi^2/\text{NDF}$ : 2.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

553.706+/-787.758  $\chi^2/\text{NDF}$ : 1.8/2

-971.709+/-721.726  $\chi^2/\text{NDF}$ : 2.5/4

# asym\_right\_avg\_rms vs slug



Right In: 846.911 $\pm$ 0.557  $\chi^2$ /NDF: 15396.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

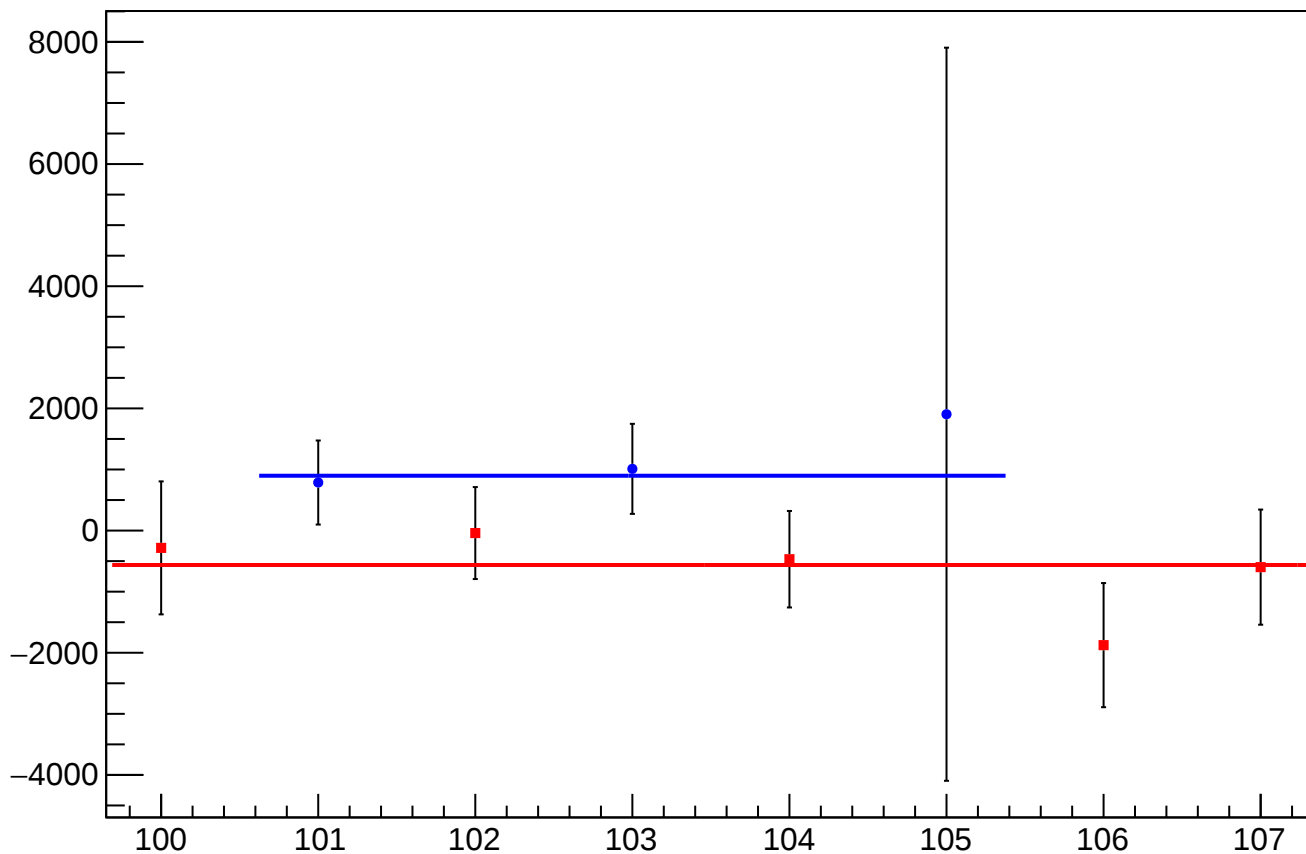
Right Out: 950.718 $\pm$ 0.510  $\chi^2$ /NDF: 57729.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

846.911 $\pm$ 0.557  $\chi^2$ /NDF: 15396.9/2

950.718 $\pm$ 0.510  $\chi^2$ /NDF: 57729.6/4

# reg\_asym\_right\_dd\_mean vs slug



Right In: 897.833+/-501.139  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

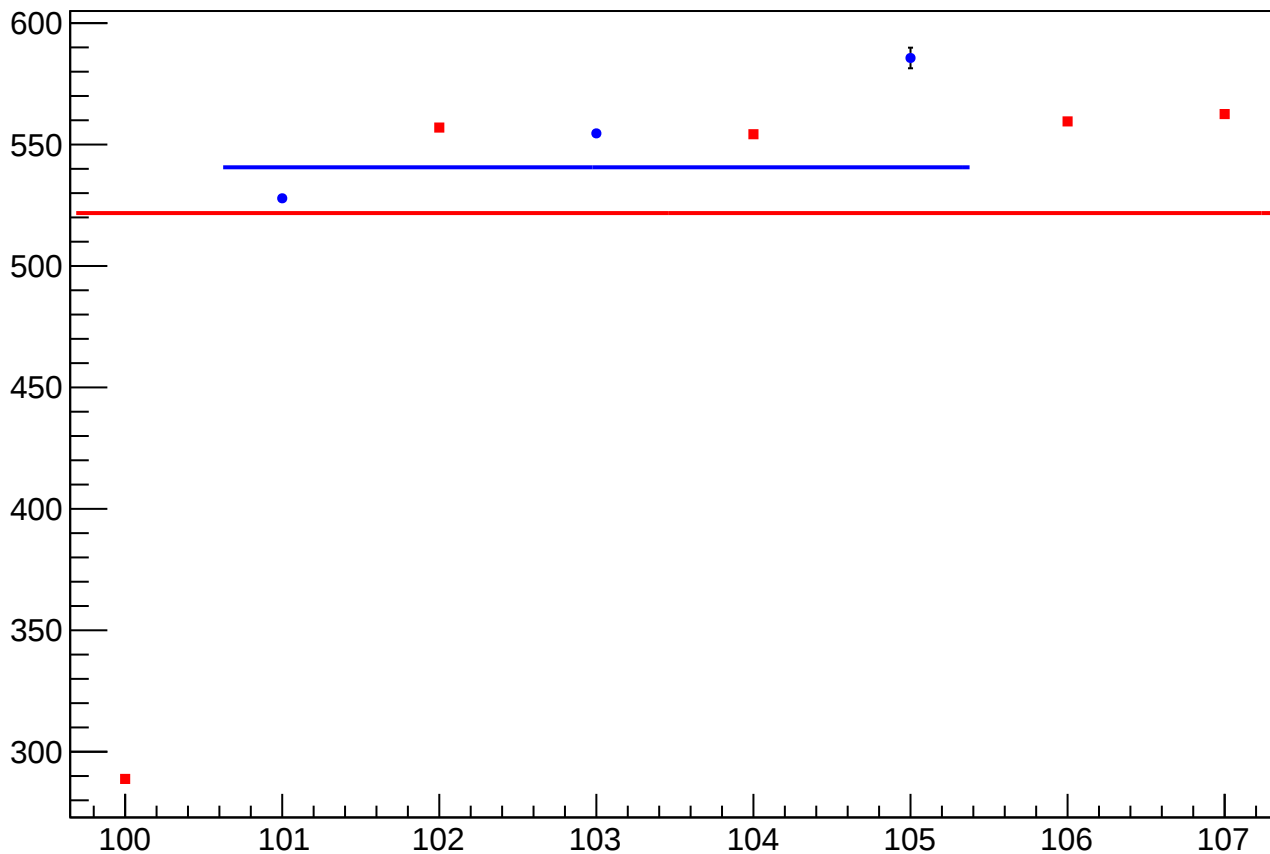
Right Out: -563.410+/-398.217  $\chi^2/\text{NDF}$ : 2.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

897.833+/-501.139  $\chi^2/\text{NDF}$ : 0.1/2

-563.410+/-398.217  $\chi^2/\text{NDF}$ : 2.2/4

# reg\_asym\_right\_dd\_rms vs slug



Right In: 540.635 $\pm$ 0.354  $\chi^2$ /NDF: 1519.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

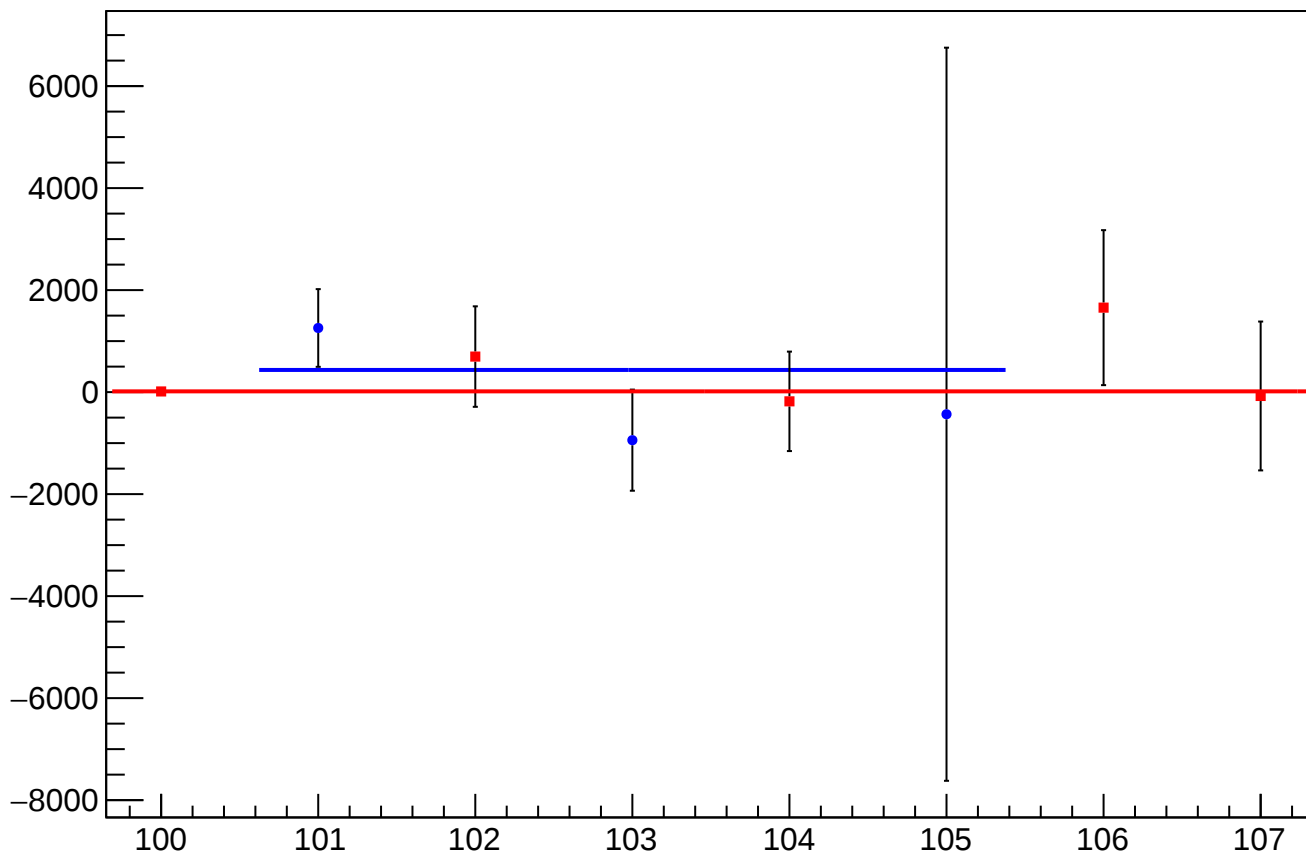
540.635 $\pm$ 0.354  $\chi^2$ /NDF: 1519.4/2

Right Out: 521.786 $\pm$ 0.282  $\chi^2$ /NDF: 105881.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

521.786 $\pm$ 0.282  $\chi^2$ /NDF: 105881.6/4

# asym\_right\_dd\_correction\_mean vs slug



Right In: 434.616+/-601.984  $\chi^2/\text{NDF}$ : 3.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

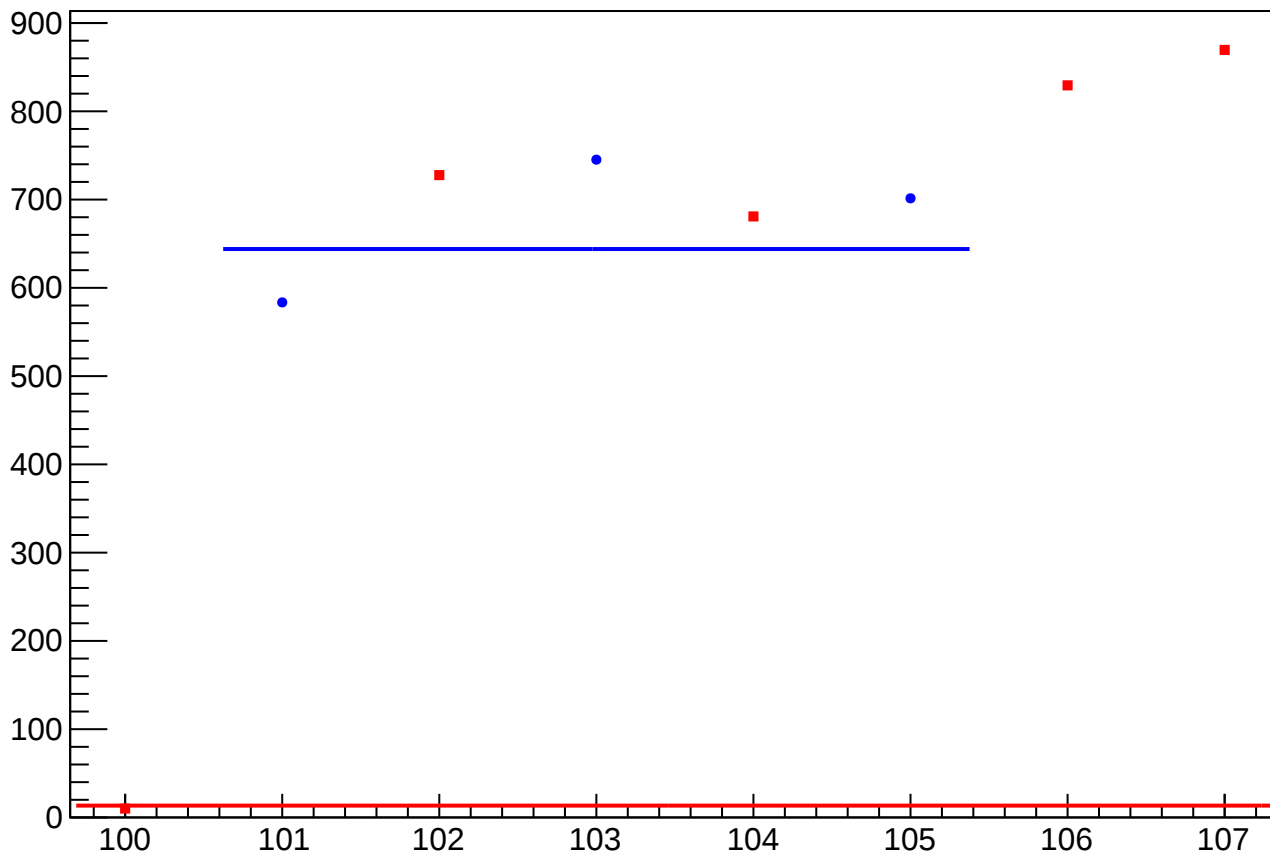
Right Out: 14.795+/-39.134  $\chi^2/\text{NDF}$ : 1.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

434.616+/-601.984  $\chi^2/\text{NDF}$ : 3.1/2

14.795+/-39.134  $\chi^2/\text{NDF}$ : 1.7/4

# asym\_right\_dd\_correction\_rms vs slug



Right In: 643.959 $\pm$ 0.426  $\chi^2$ /NDF: 33584.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

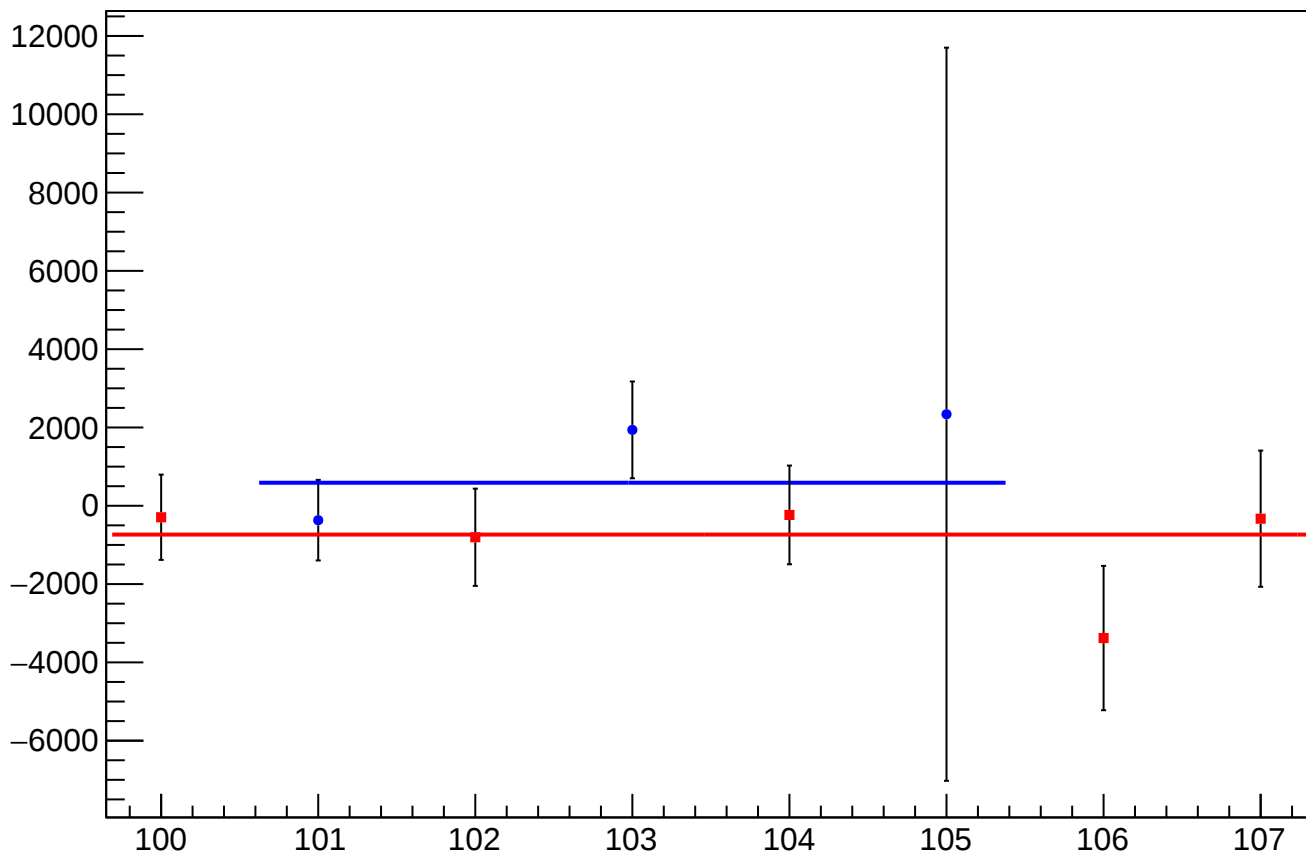
643.959 $\pm$ 0.426  $\chi^2$ /NDF: 33584.2/2

Right Out: 13.418 $\pm$ 0.028  $\chi^2$ /NDF: 3268632.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

13.418 $\pm$ 0.028  $\chi^2$ /NDF: 3268632.4/4

# asym\_right\_dd\_mean vs slug



Right In: 588.460 $\pm$ 788.160  $\chi^2$ /NDF: 2.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

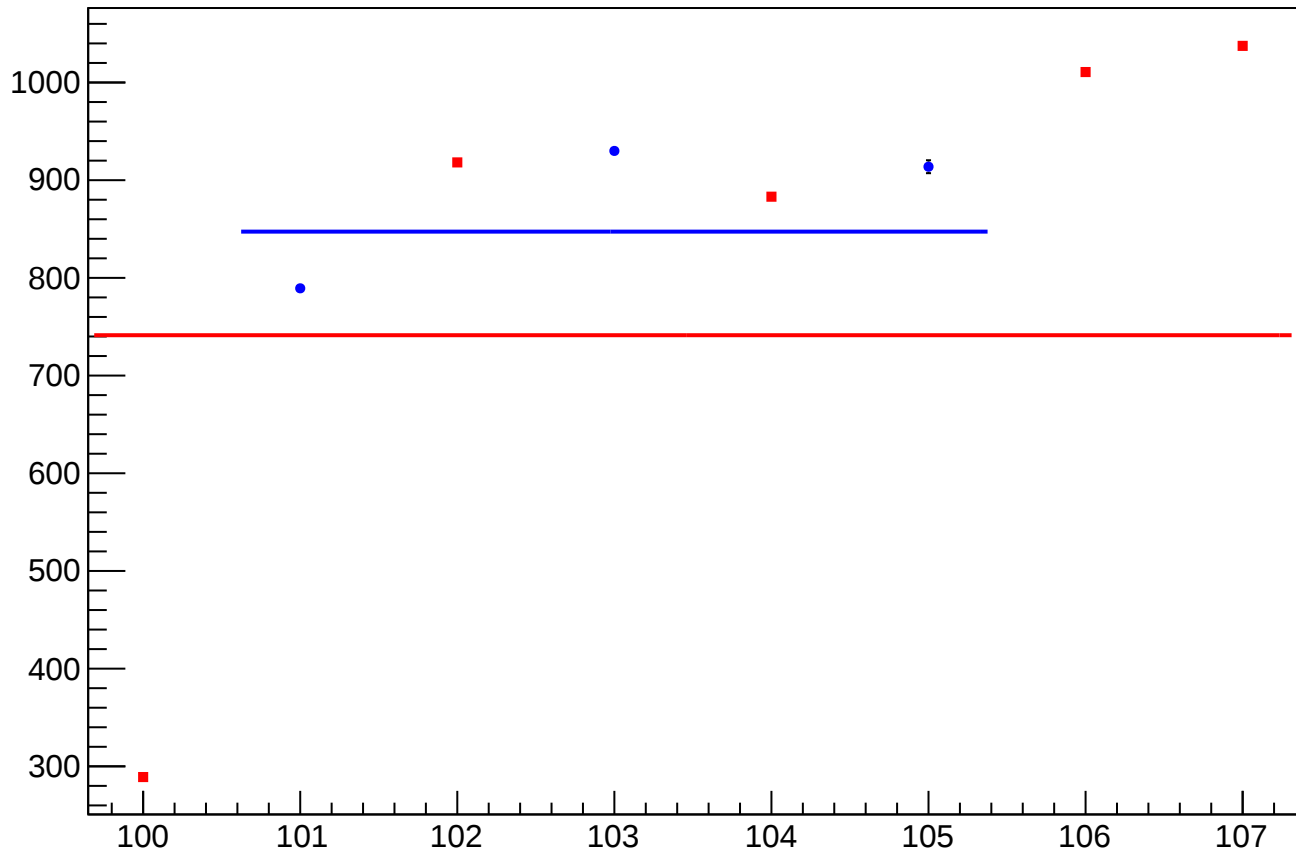
Right Out: -735.578 $\pm$ 603.571  $\chi^2$ /NDF: 2.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

588.460 $\pm$ 788.160  $\chi^2$ /NDF: 2.1/2

-735.578 $\pm$ 603.571  $\chi^2$ /NDF: 2.4/4

# asym\_right\_dd\_rms vs slug



Right In: 847.348+/-0.557  $\chi^2/\text{NDF}$ : 15388.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

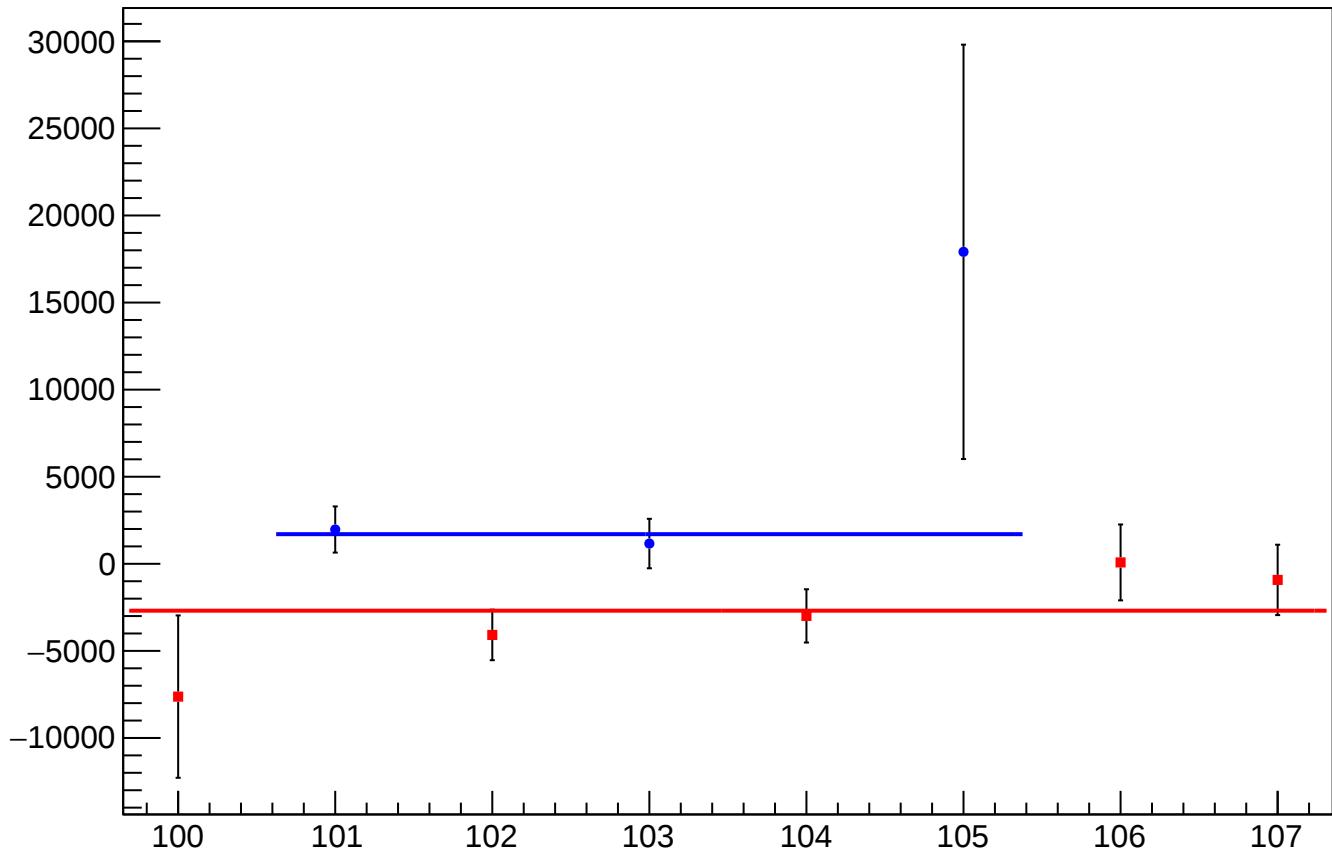
847.348+/-0.557  $\chi^2/\text{NDF}$ : 15388.8/2

Right Out: 741.312+/-0.427  $\chi^2/\text{NDF}$ : 511266.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

741.312+/-0.427  $\chi^2/\text{NDF}$ : 511266.4/4

# cor\_usl\_mean vs slug



Right In: 1701.648 $\pm$ 965.848  $\chi^2$ /NDF: 2.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

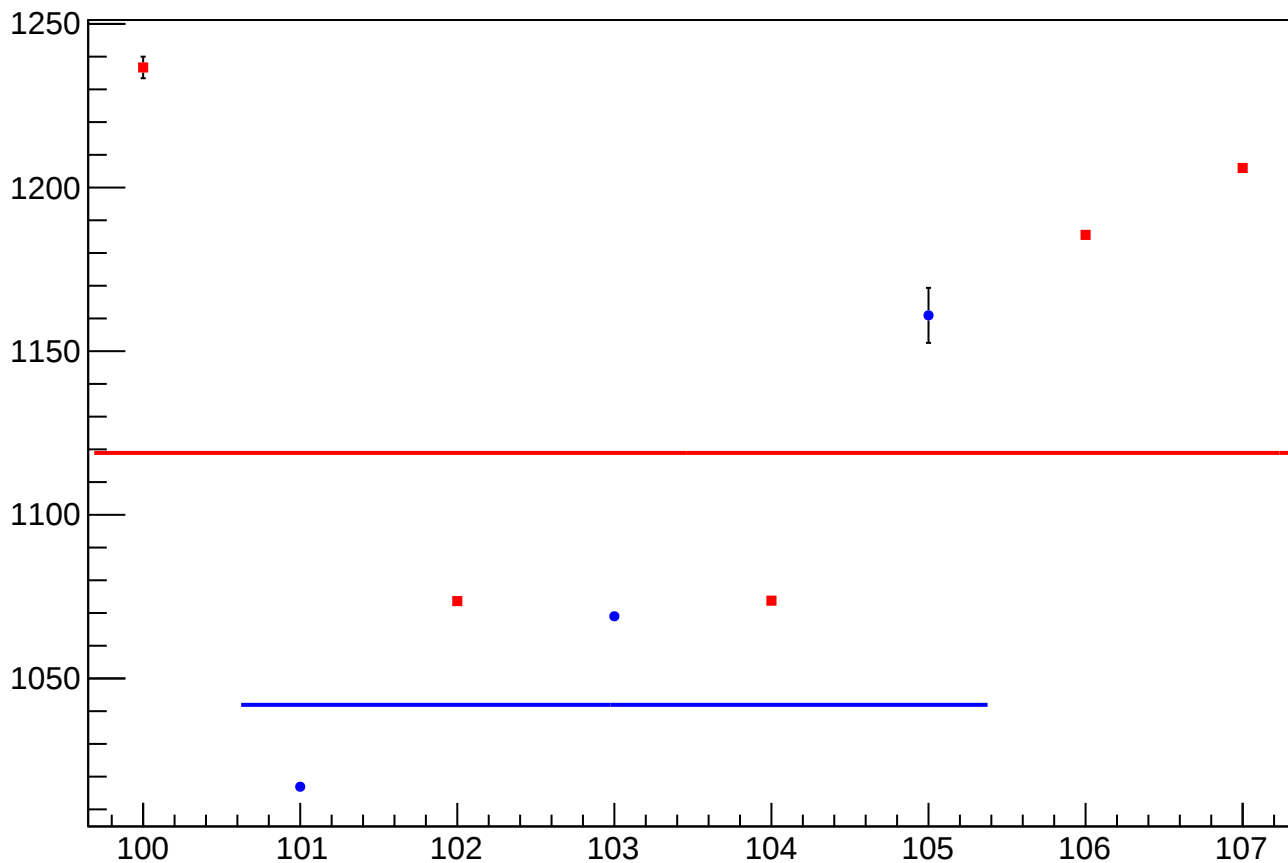
1701.648 $\pm$ 965.848  $\chi^2$ /NDF: 2.0/2

Right Out: -2691.057 $\pm$ 844.061  $\chi^2$ /NDF: 4.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-2691.057 $\pm$ 844.061  $\chi^2$ /NDF: 4.5/4

# cor\_usl\_rms vs slug



Right In: 1041.942 $\pm$ 0.683  $\chi^2$ /NDF: 1639.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

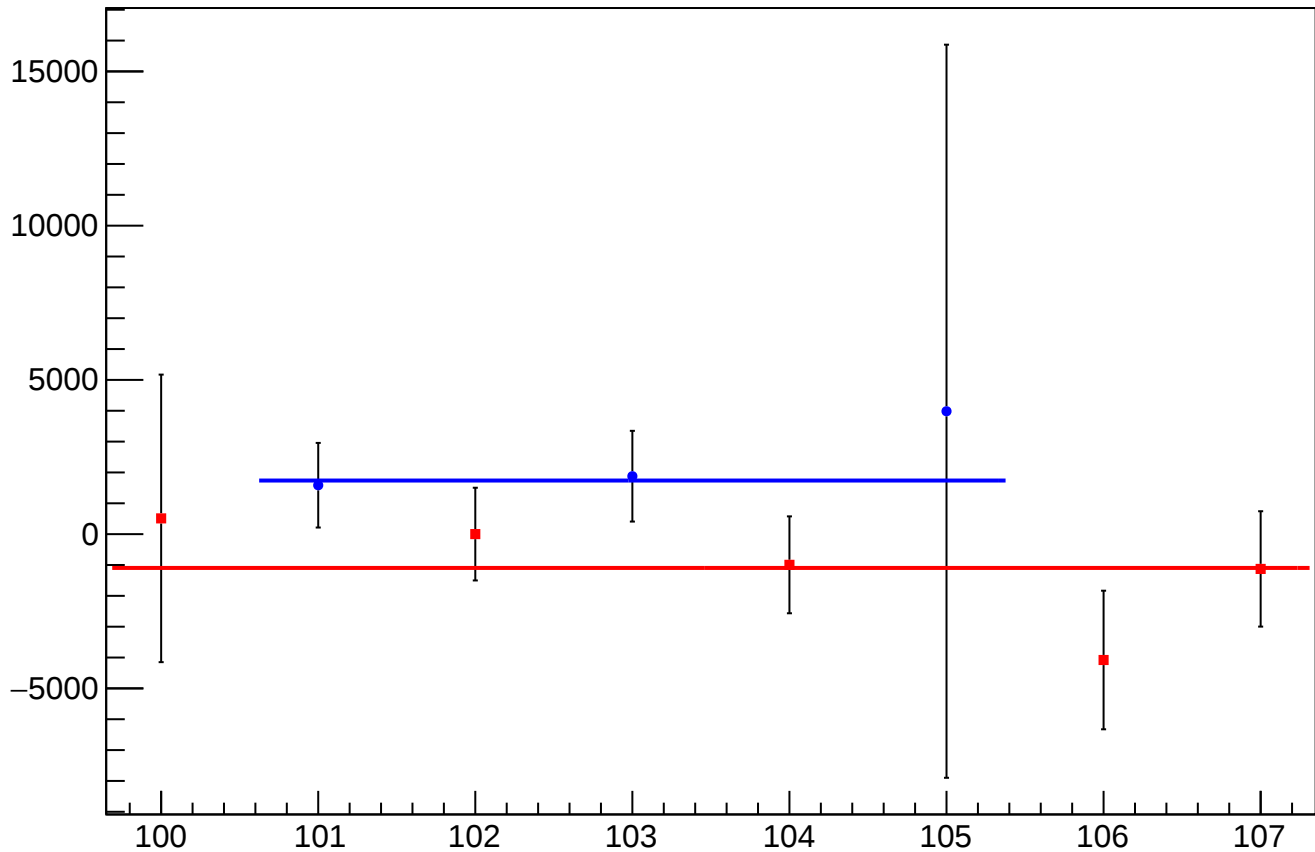
Right Out: 1118.912 $\pm$ 0.597  $\chi^2$ /NDF: 10548.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1041.942 $\pm$ 0.683  $\chi^2$ /NDF: 1639.1/2

1118.912 $\pm$ 0.597  $\chi^2$ /NDF: 10548.0/4

# cor\_usr\_mean vs slug



Right In: 1737.878+/-999.494  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

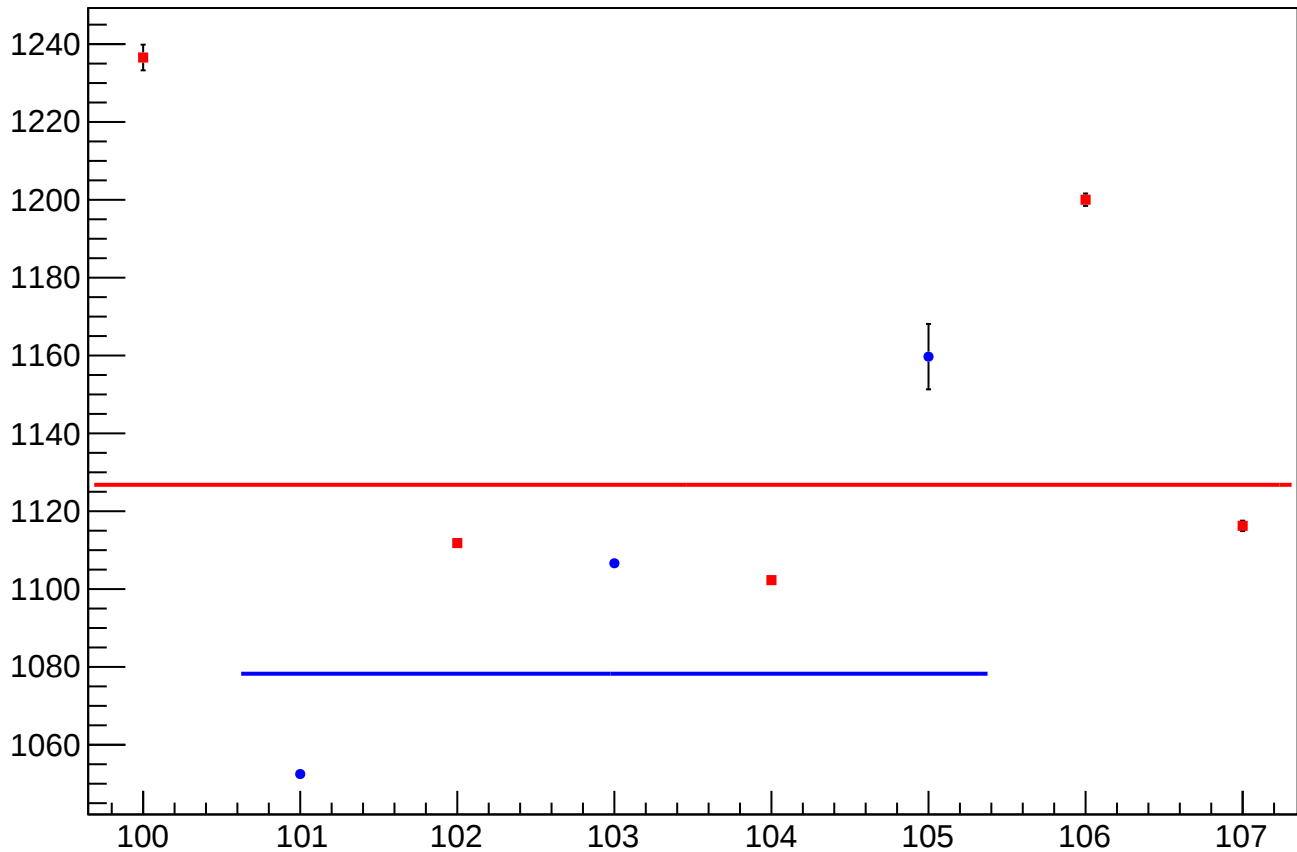
1737.878+/-999.494  $\chi^2/\text{NDF}$ : 0.1/2

Right Out: -1095.351+/-851.774  $\chi^2/\text{NDF}$ : 2.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1095.351+/-851.774  $\chi^2/\text{NDF}$ : 2.4/4

# cor\_usr\_rms vs slug



Right In: 1078.255+/-0.707  $\chi^2/\text{NDF}$ : 1544.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

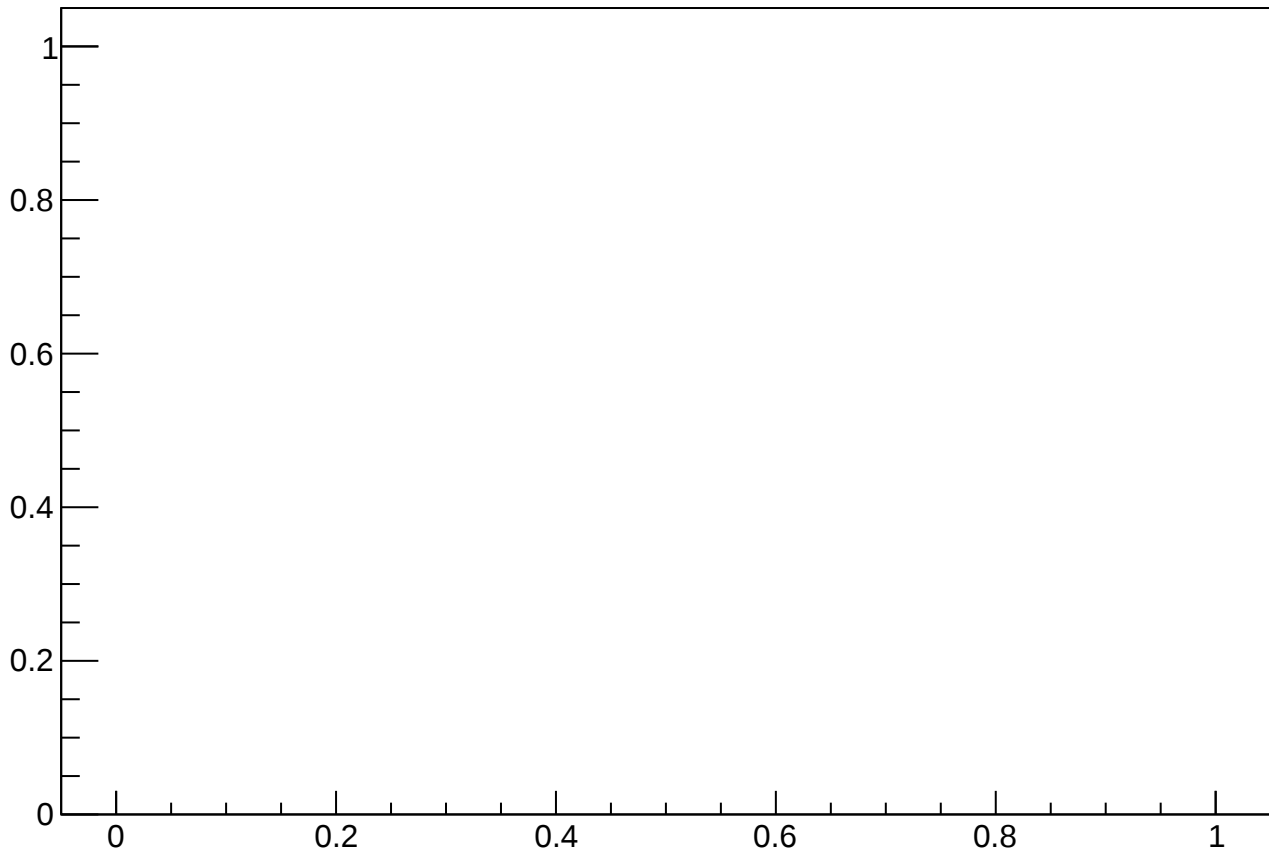
Right Out: 1126.787+/-0.602  $\chi^2/\text{NDF}$ : 3983.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1078.255+/-0.707  $\chi^2/\text{NDF}$ : 1544.3/2

1126.787+/-0.602  $\chi^2/\text{NDF}$ : 3983.9/4

# cor\_dsl\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

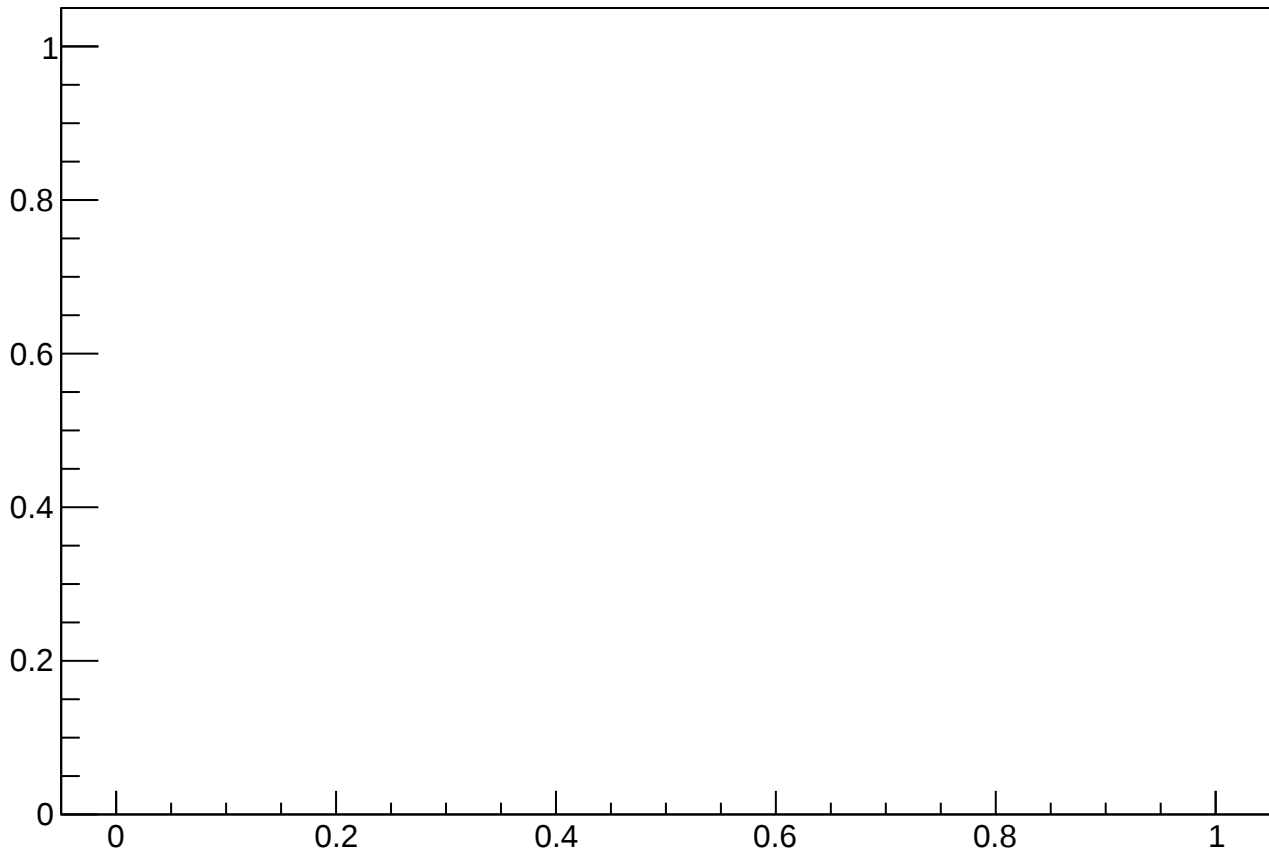
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_dsl\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

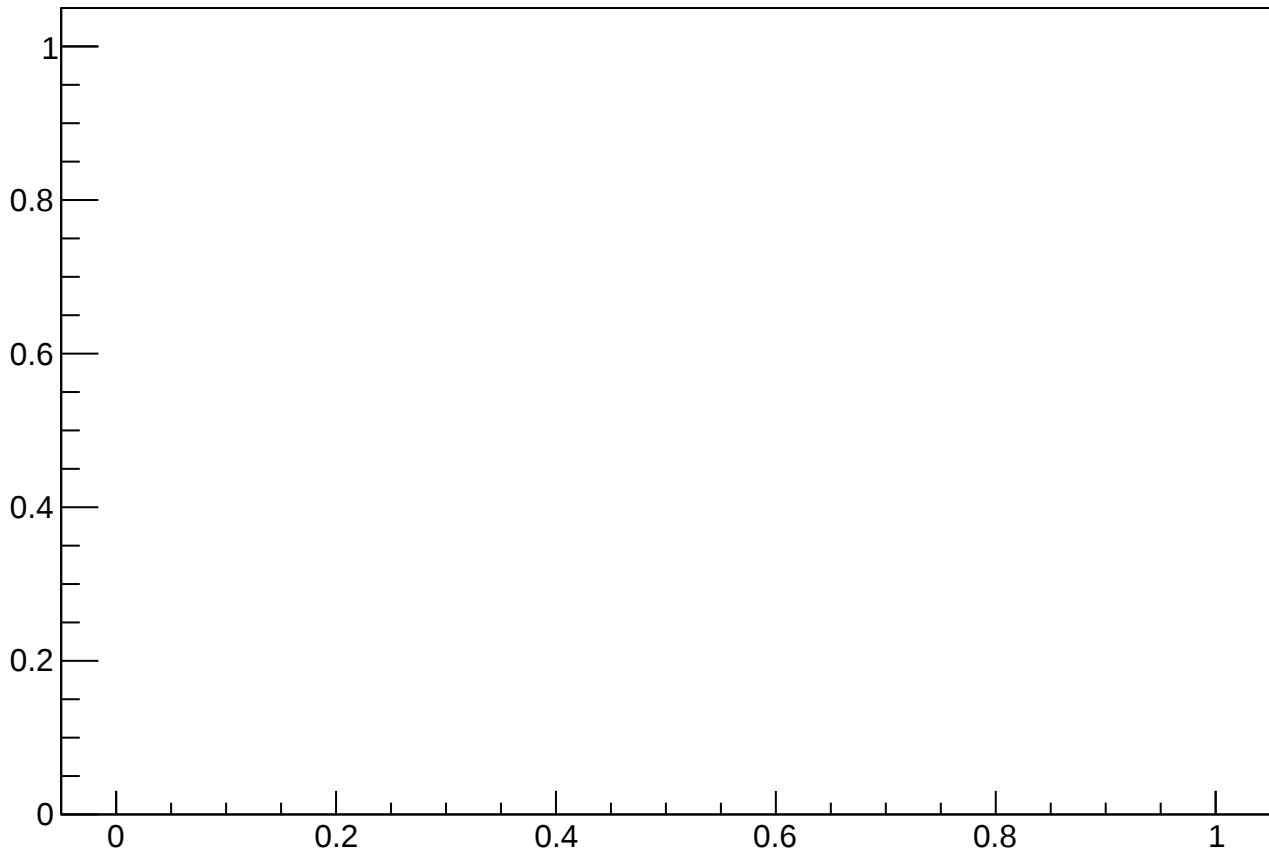
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# cor\_dsr\_mean vs slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

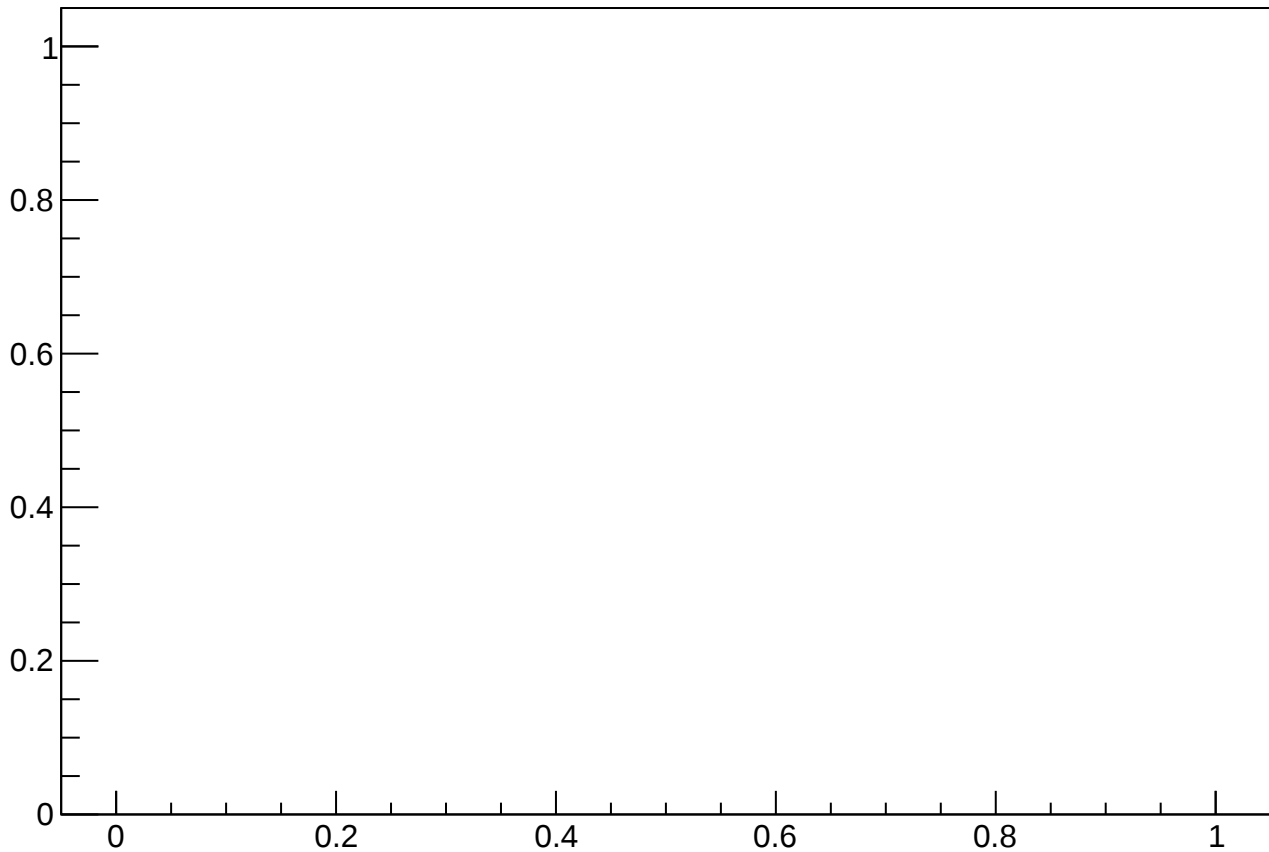
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_dsr\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

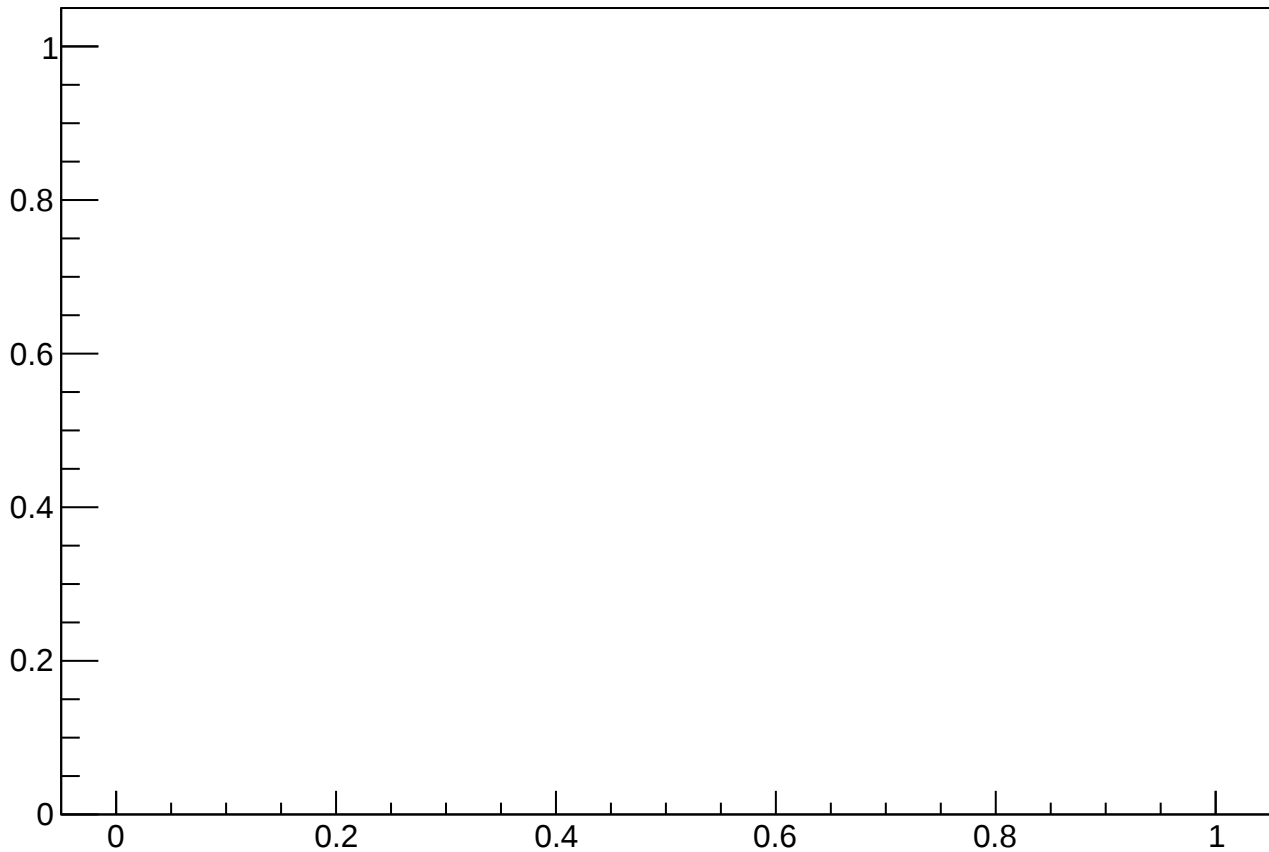
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_us\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

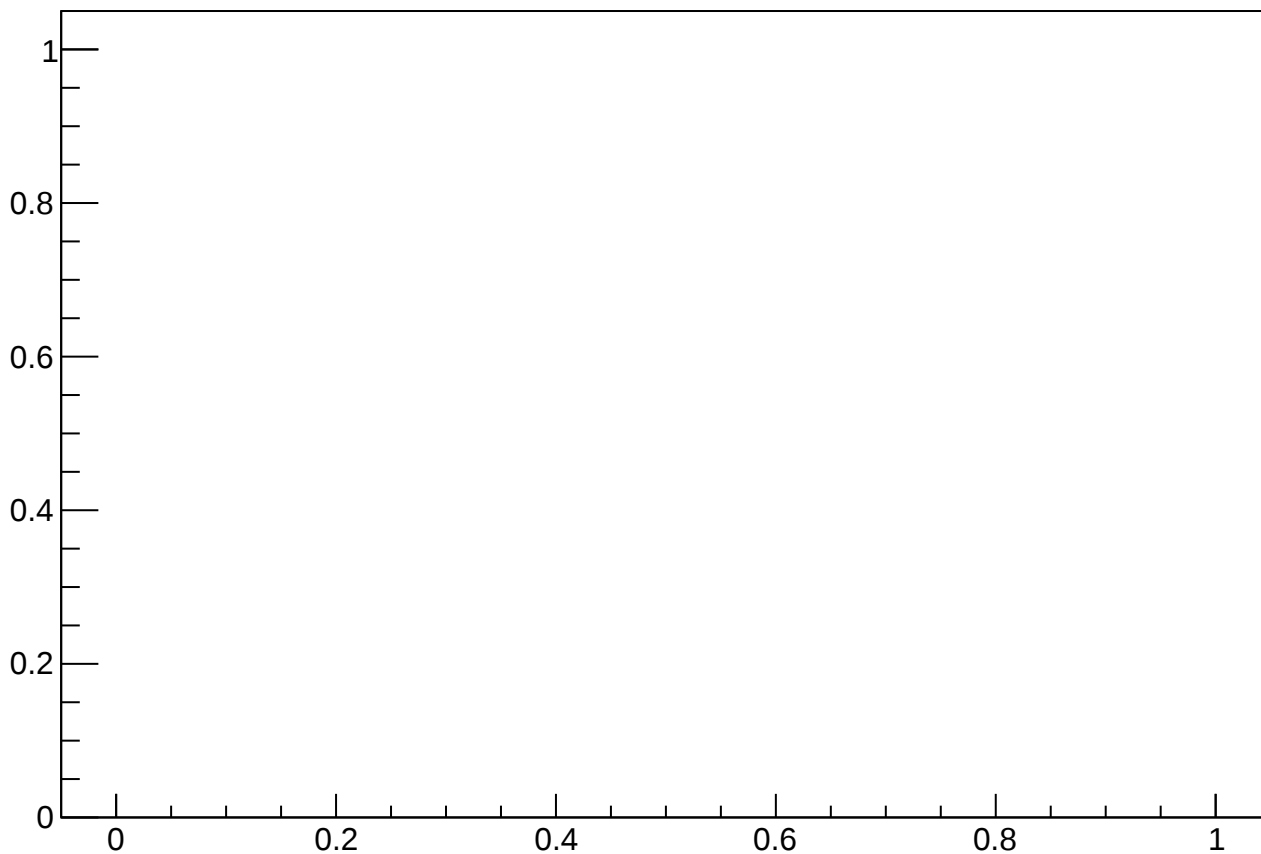
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_us\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

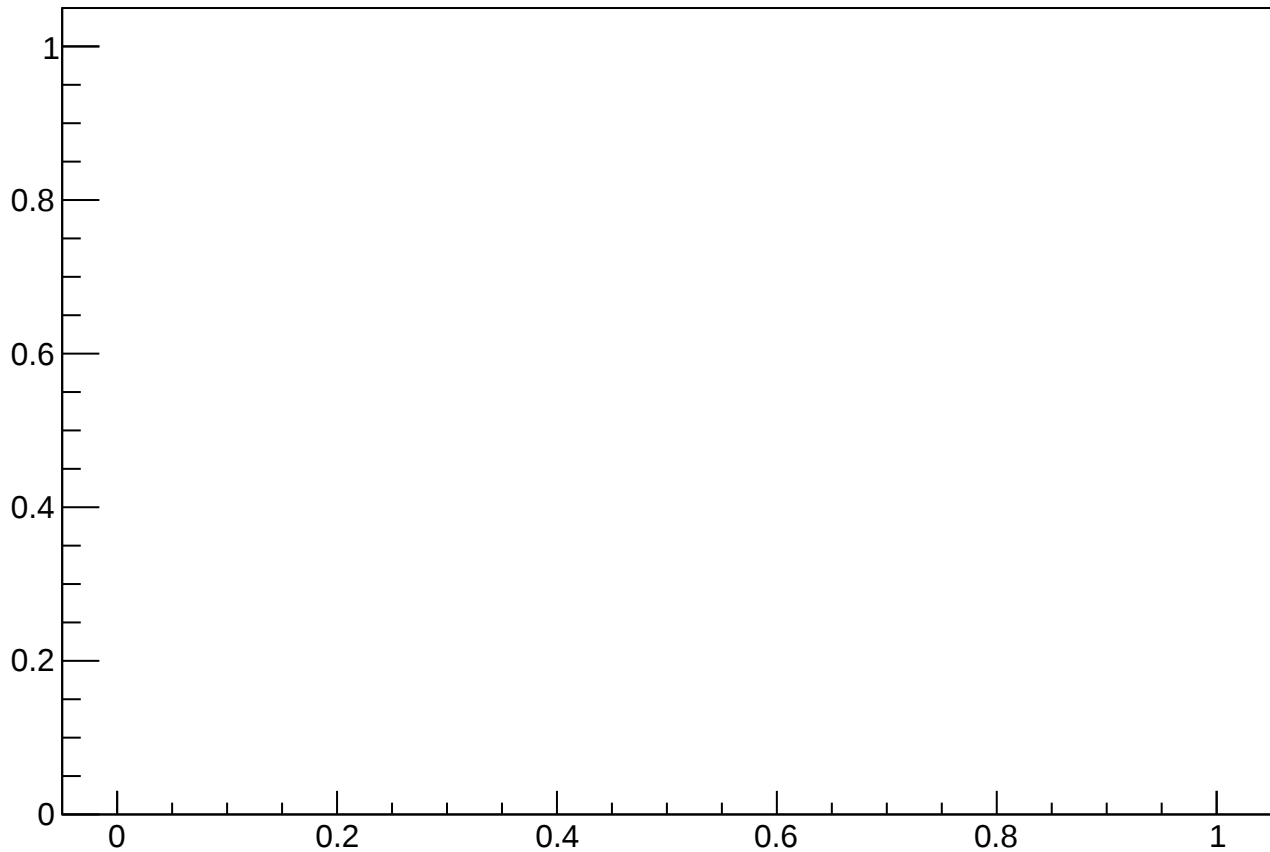
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_us\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

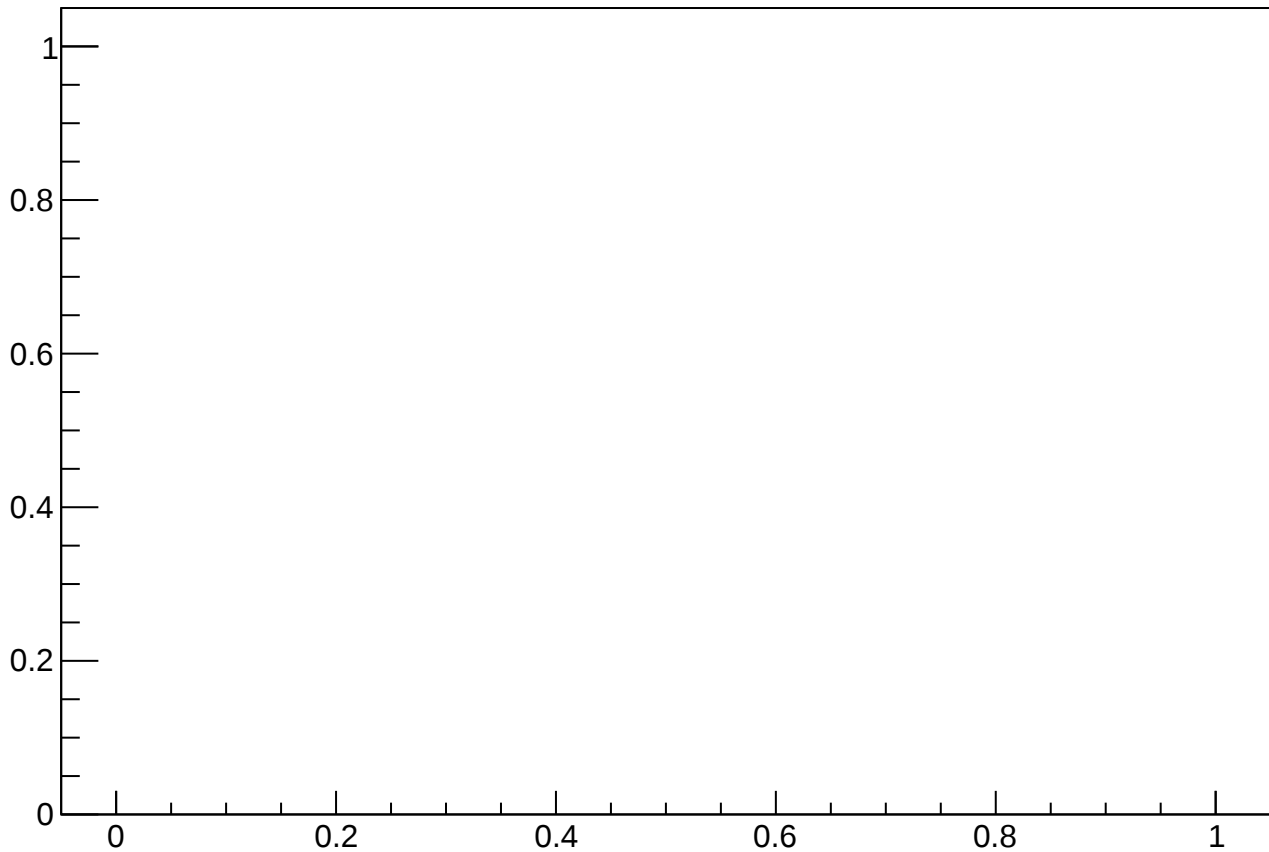
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_us\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

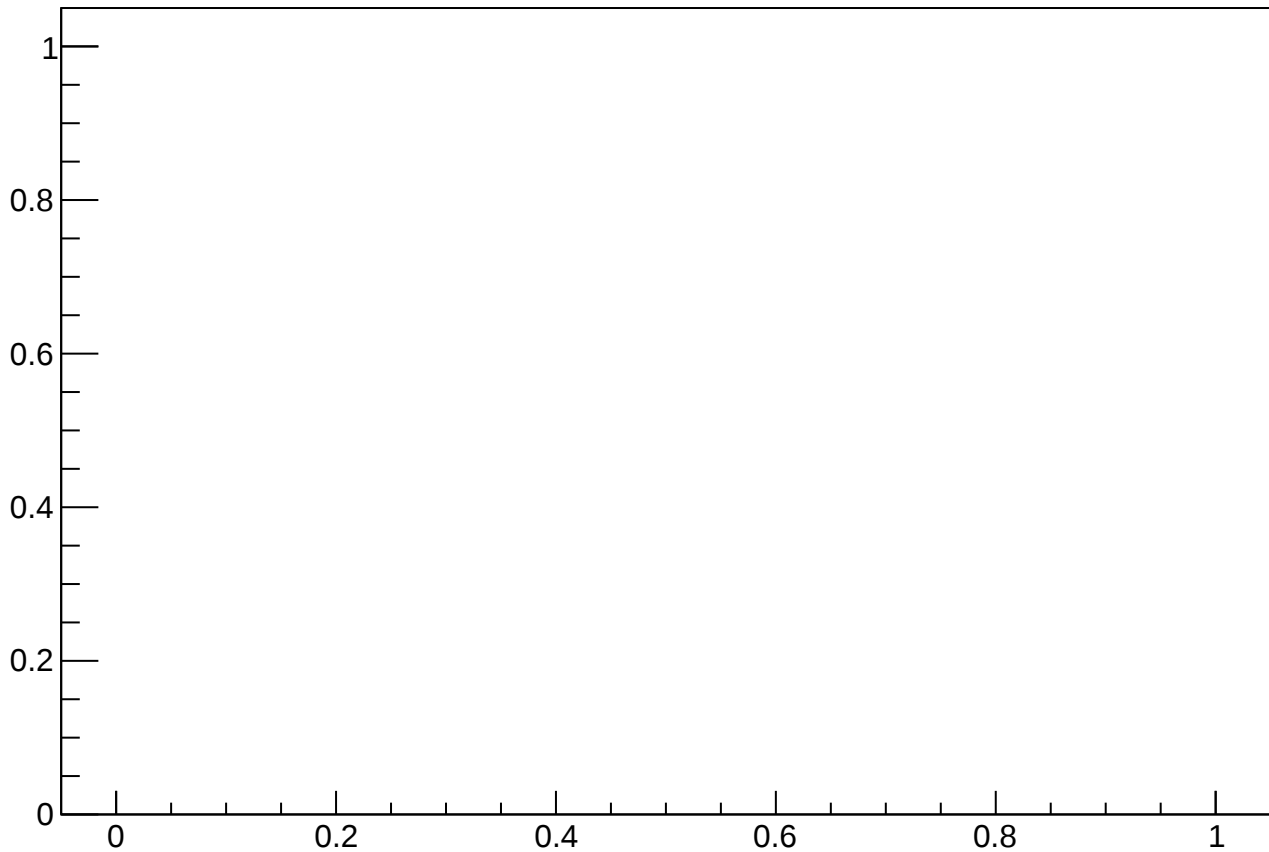
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_ds\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

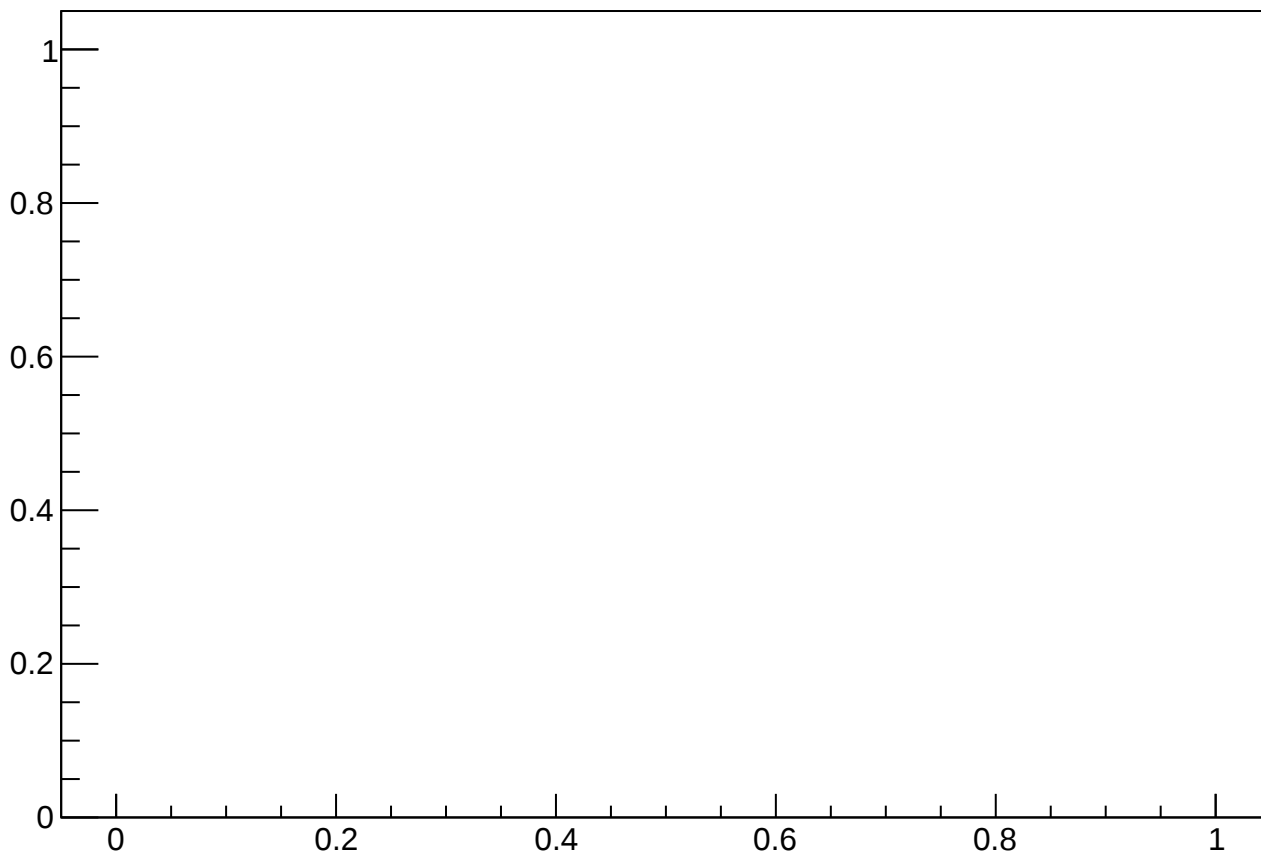
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_ds\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

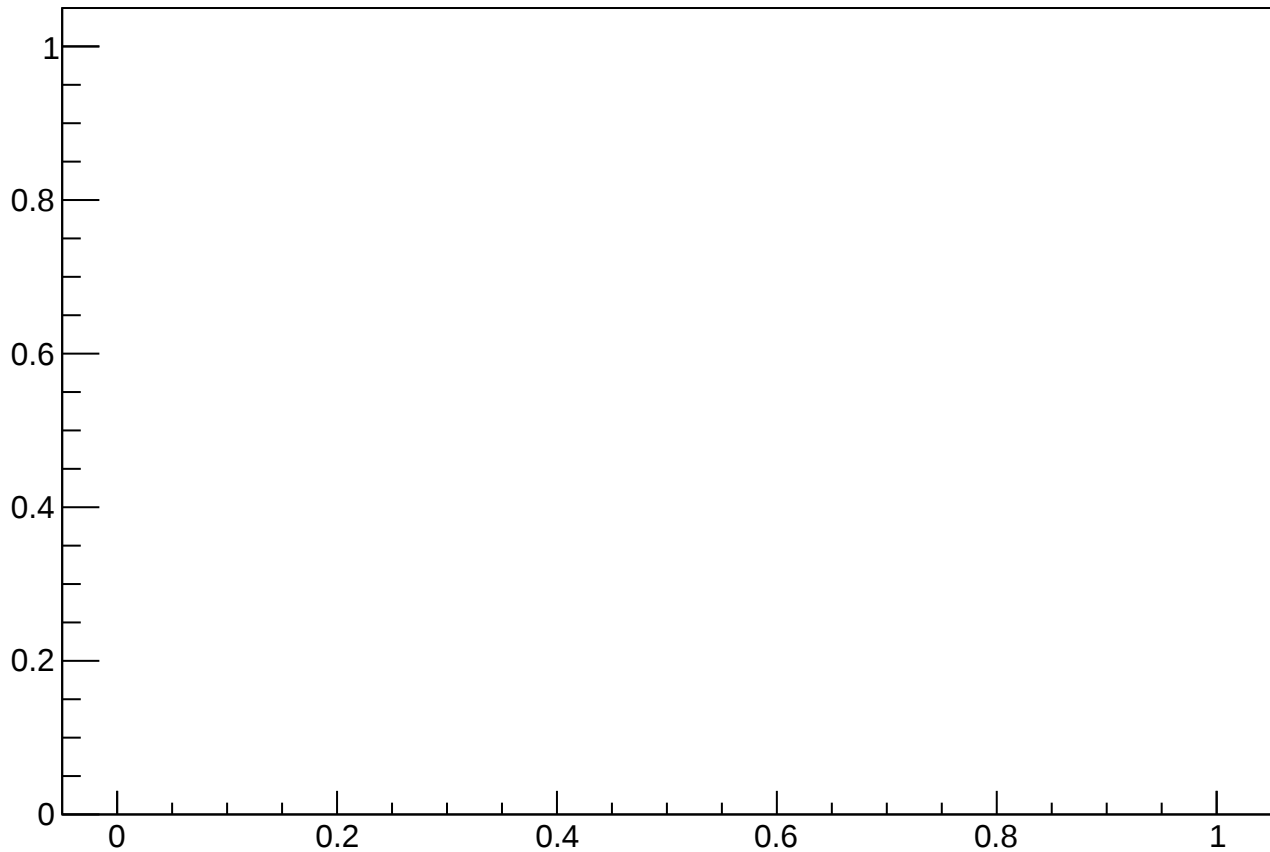
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_ds\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

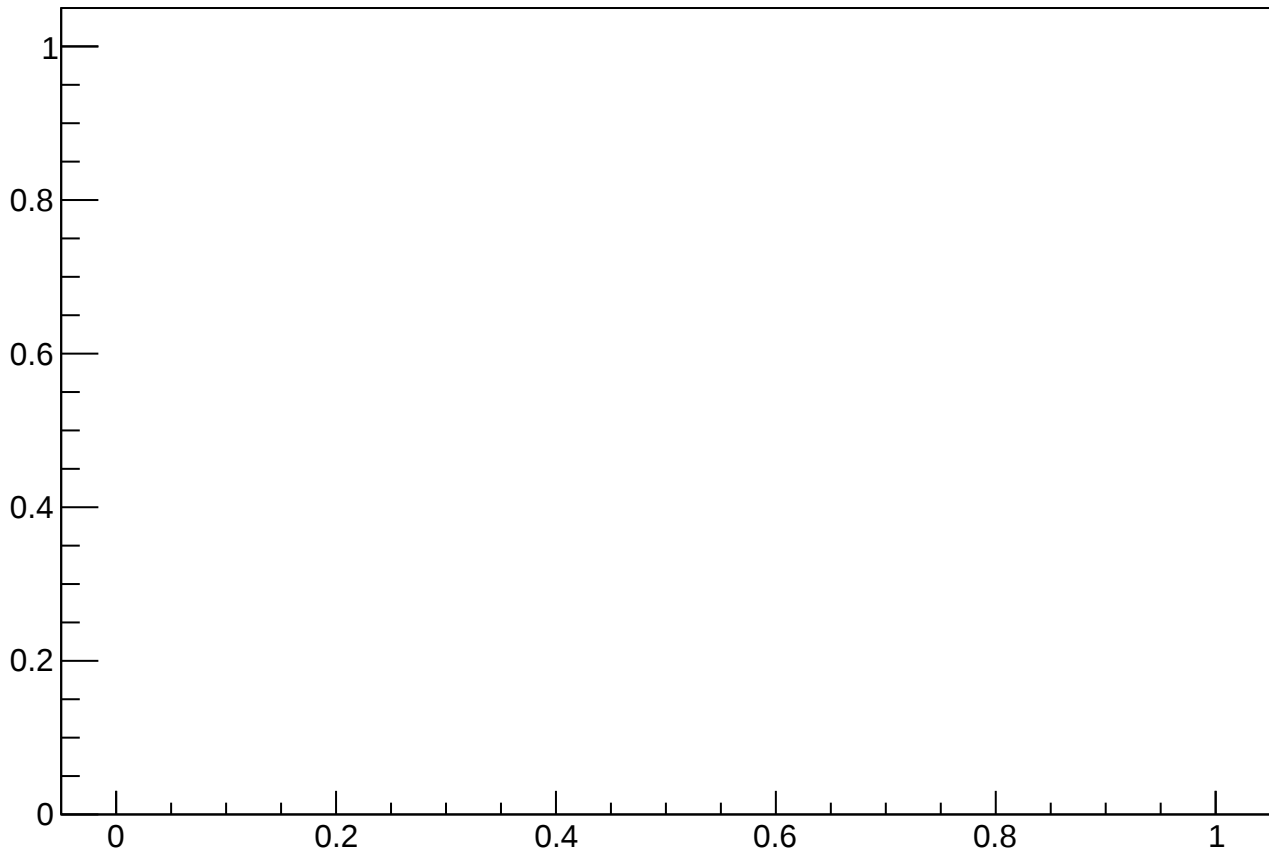
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_ds\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

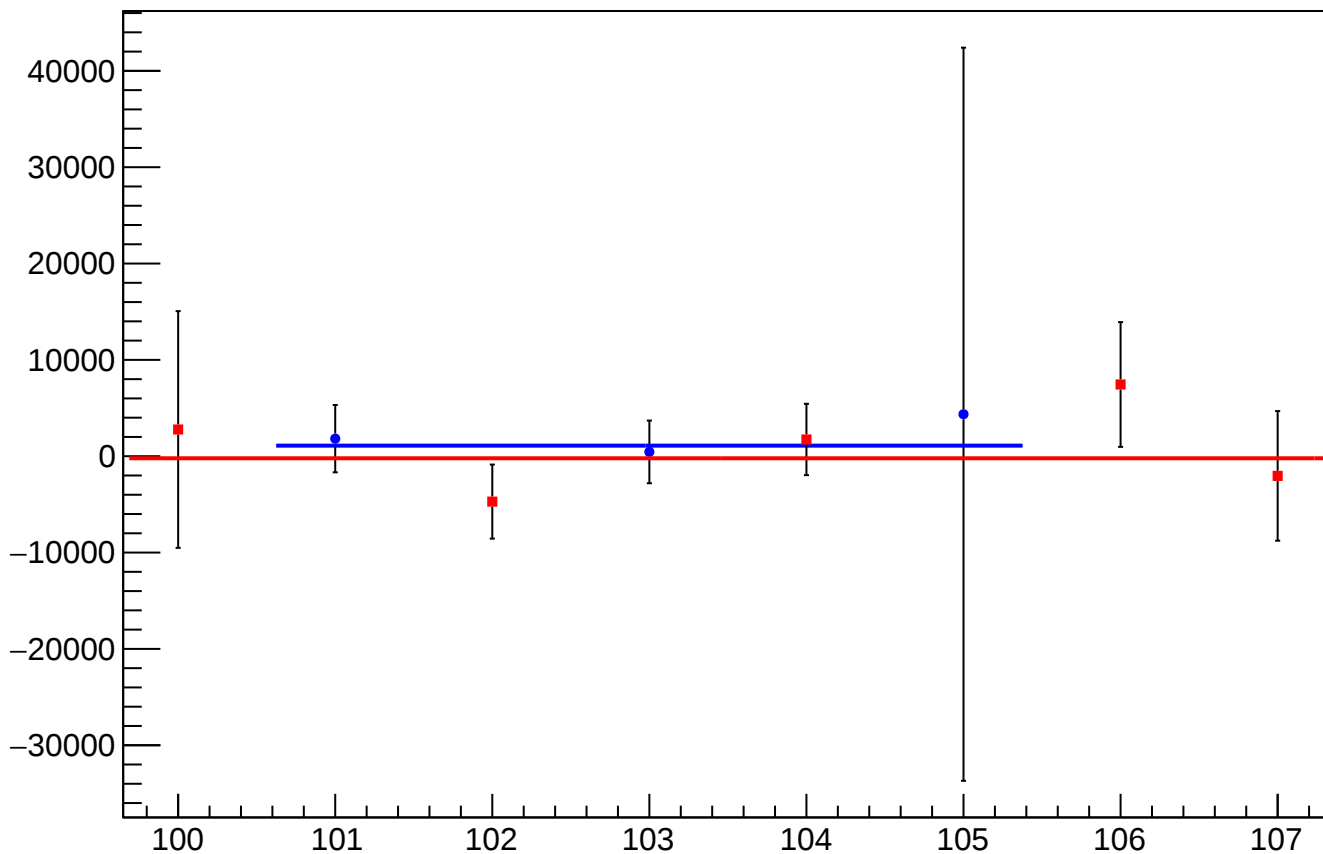
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_mean vs slug



Right In: 1097.985 $\pm$ 2375.909  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

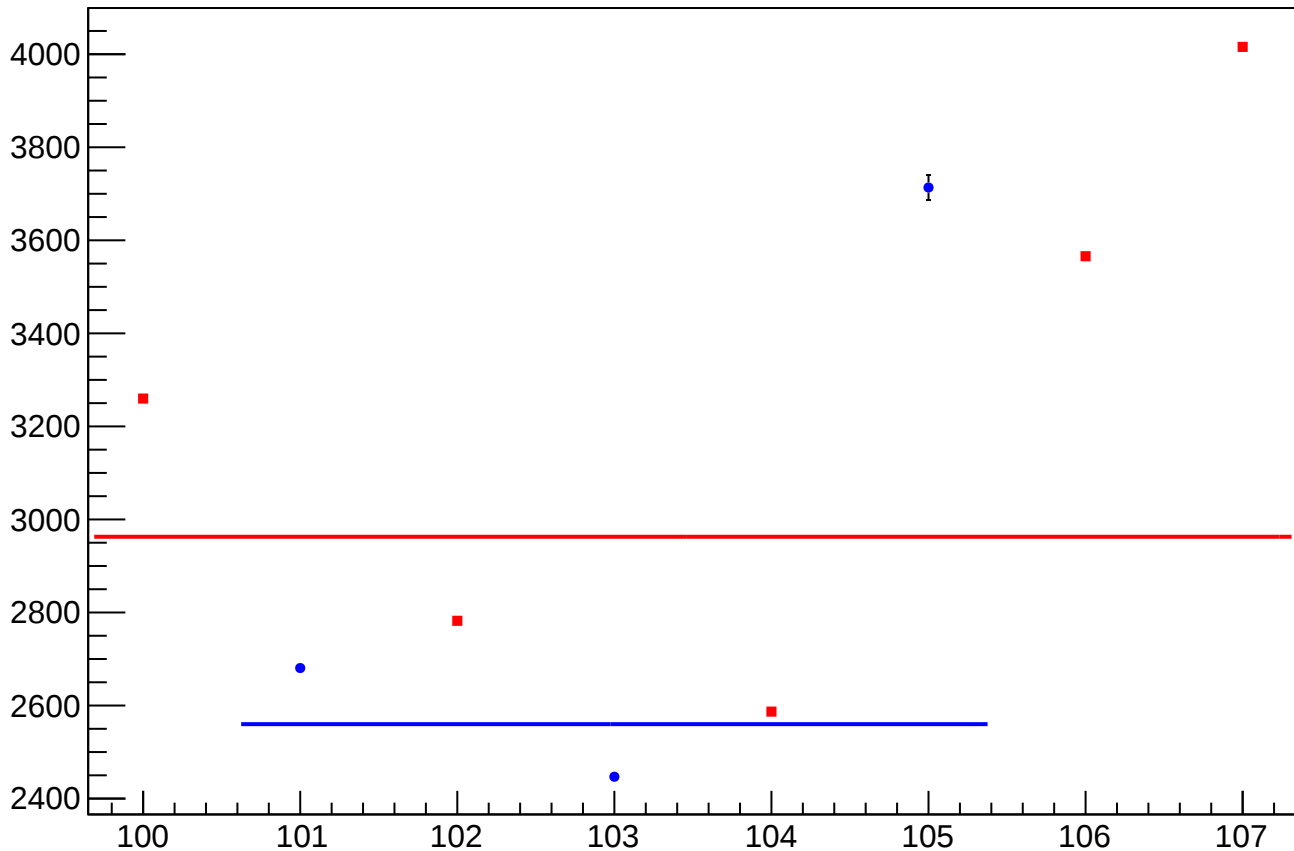
Right Out: -213.289 $\pm$ 2275.831  $\chi^2$ /NDF: 3.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1097.985 $\pm$ 2375.909  $\chi^2$ /NDF: 0.1/2

-213.289 $\pm$ 2275.831  $\chi^2$ /NDF: 3.2/4

# reg\_asym\_atl1\_rms vs slug



Right In: 2559.975+/-1.680  $\chi^2/\text{NDF}$ : 6635.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

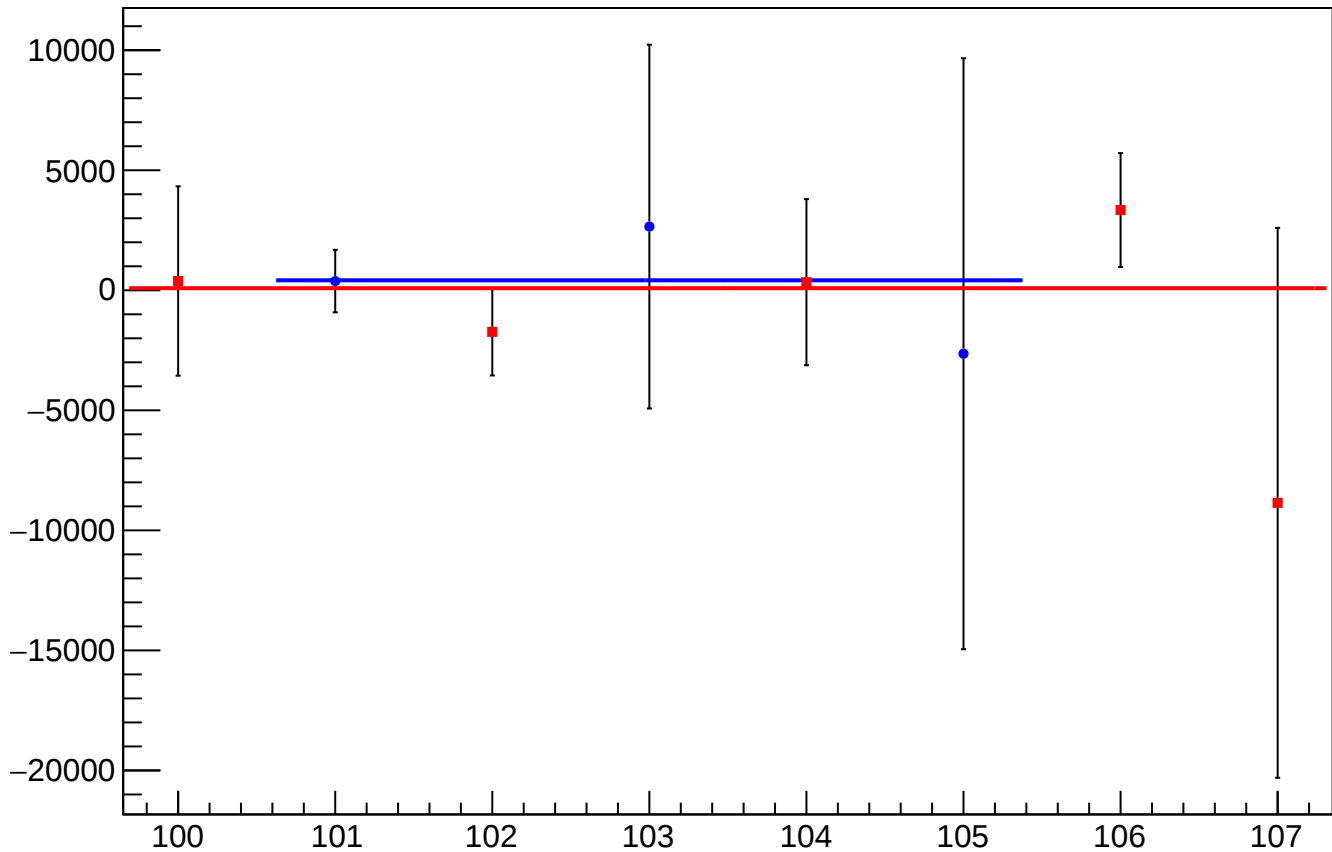
2559.975+/-1.680  $\chi^2/\text{NDF}$ : 6635.8/2

Right Out: 2962.823+/-1.609  $\chi^2/\text{NDF}$ : 92501.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2962.823+/-1.609  $\chi^2/\text{NDF}$ : 92501.7/4

# asym\_atl1\_correction\_mean vs slug



Right In: 415.504 $\pm$ 1276.239  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

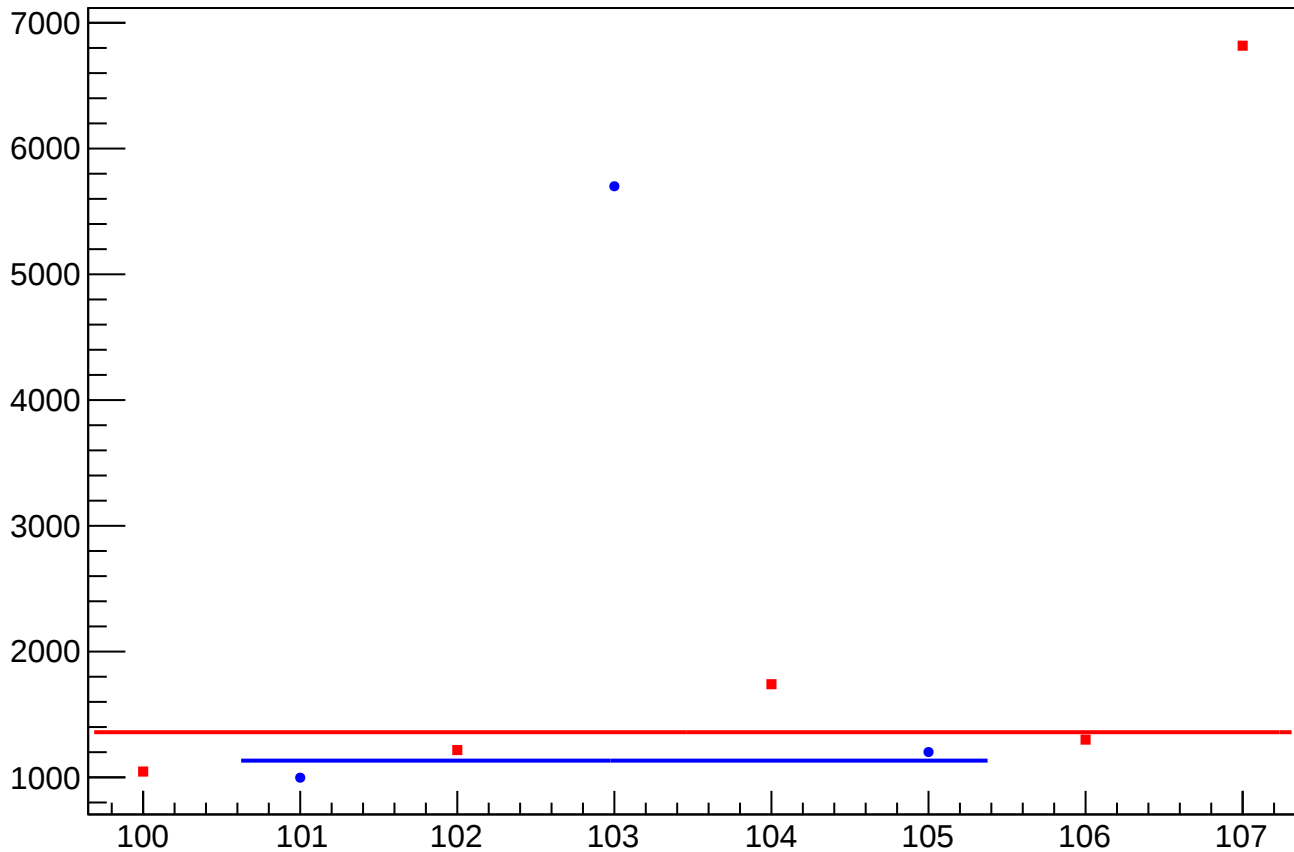
Right Out: 86.460 $\pm$ 1254.304  $\chi^2$ /NDF: 3.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

415.504 $\pm$ 1276.239  $\chi^2$ /NDF: 0.1/2

86.460 $\pm$ 1254.304  $\chi^2$ /NDF: 3.5/4

# asym\_atl1\_correction\_rms vs slug



Right In: 1132.903+/-0.902  $\chi^2/\text{NDF}$ : 748441.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

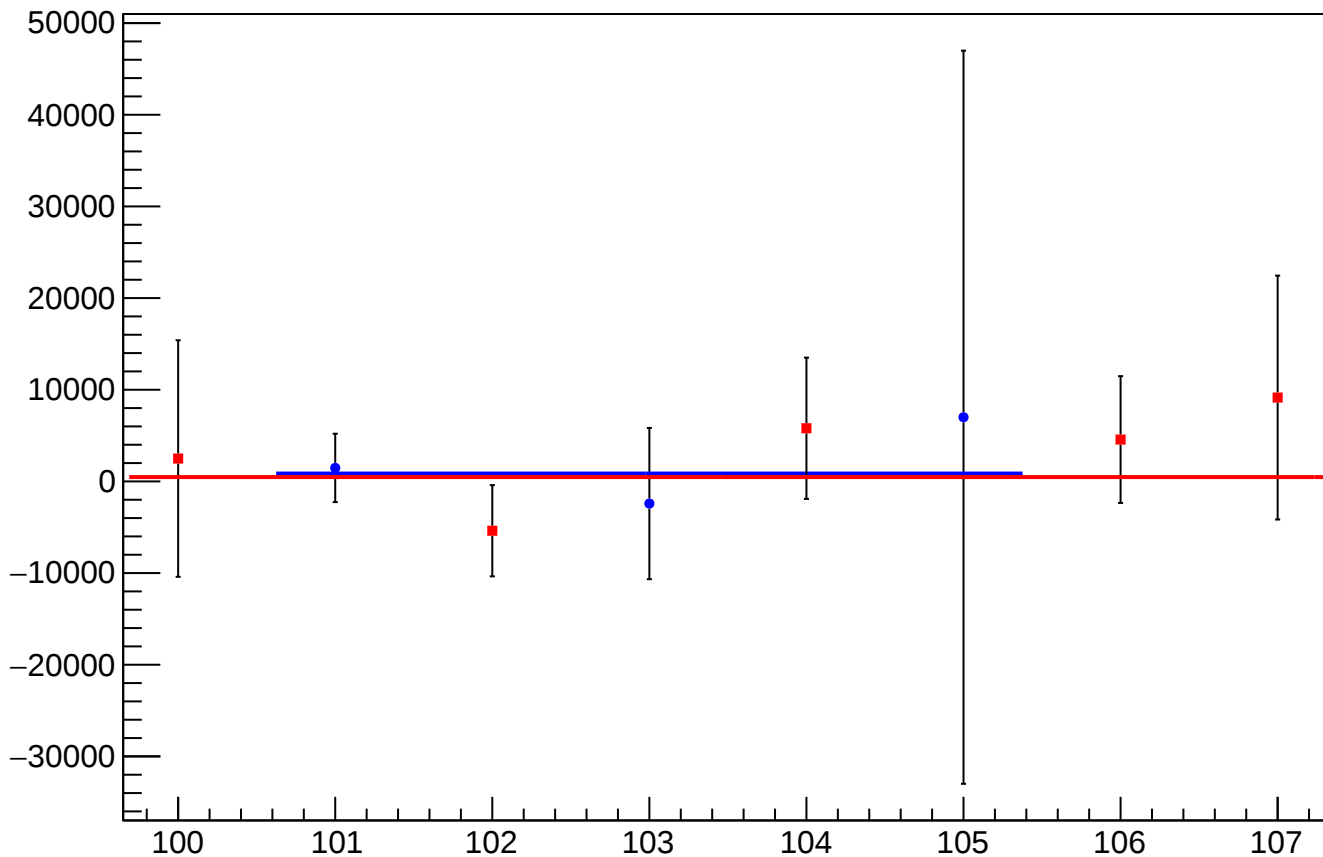
1132.903+/-0.902  $\chi^2/\text{NDF}$ : 748441.9/2

Right Out: 1358.853+/-0.887  $\chi^2/\text{NDF}$ : 504829.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1358.853+/-0.887  $\chi^2/\text{NDF}$ : 504829.6/4

# asym\_atl1\_mean vs slug



Right In: 856.889 $\pm$ 3387.530  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

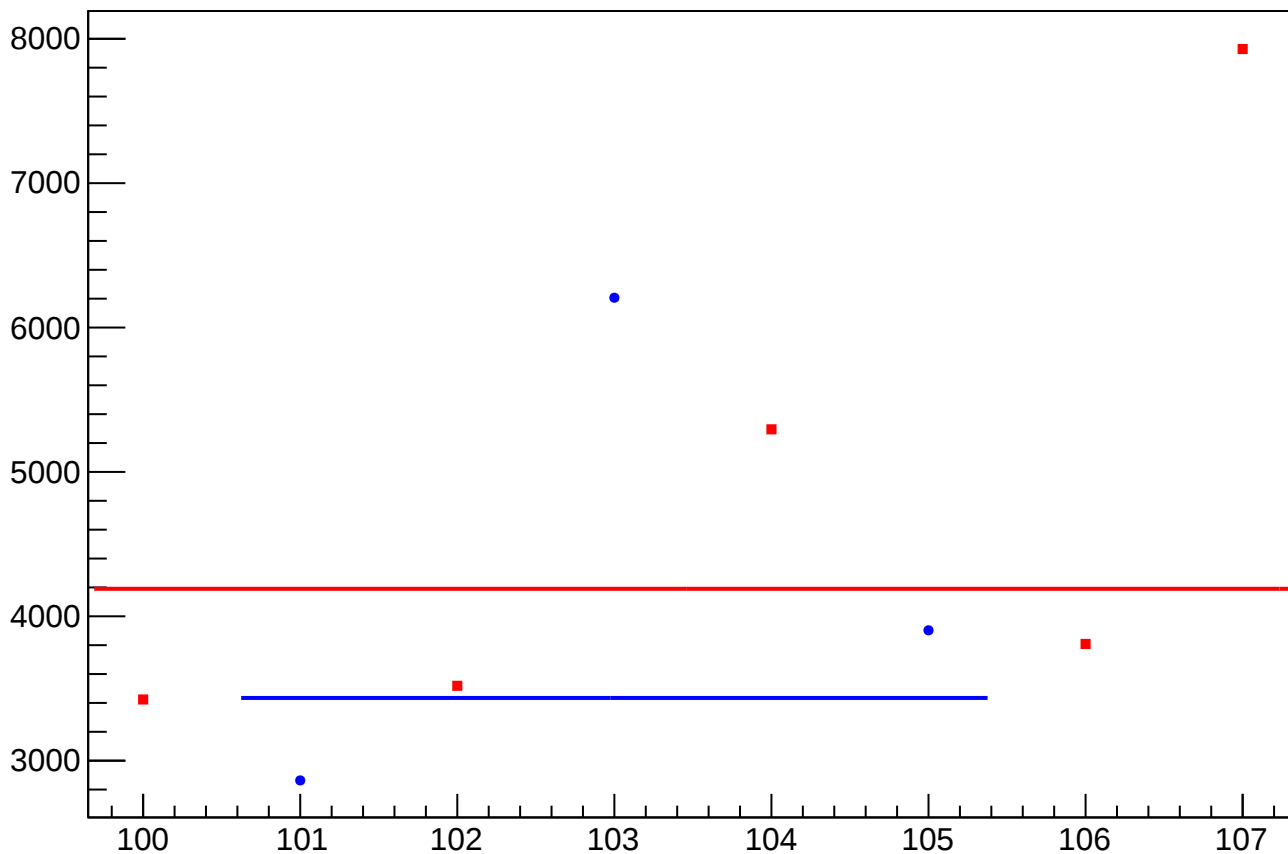
Right Out: 473.610 $\pm$ 3337.873  $\chi^2$ /NDF: 2.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

856.889 $\pm$ 3387.530  $\chi^2$ /NDF: 0.2/2

473.610 $\pm$ 3337.873  $\chi^2$ /NDF: 2.7/4

# asym\_atl1\_rms vs slug



Right In: 3434.490+/-2.395  $\chi^2/\text{NDF}$ : 272984.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

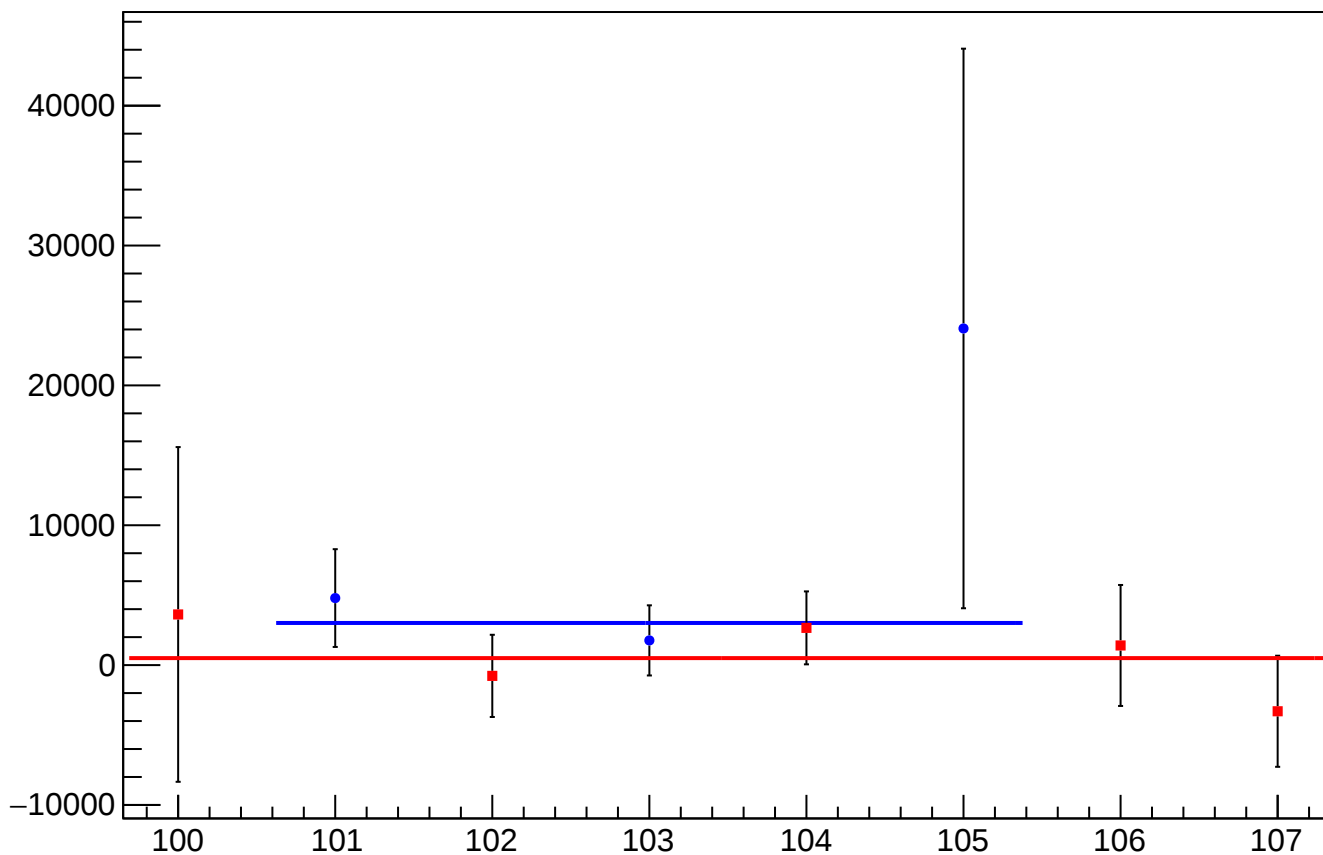
Right Out: 4190.698+/-2.360  $\chi^2/\text{NDF}$ : 248605.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3434.490+/-2.395  $\chi^2/\text{NDF}$ : 272984.7/2

4190.698+/-2.360  $\chi^2/\text{NDF}$ : 248605.0/4

# reg\_asym\_atl2\_mean vs slug



Right In: 3013.311+/-2027.192  $\chi^2$ /NDF: 1.6/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

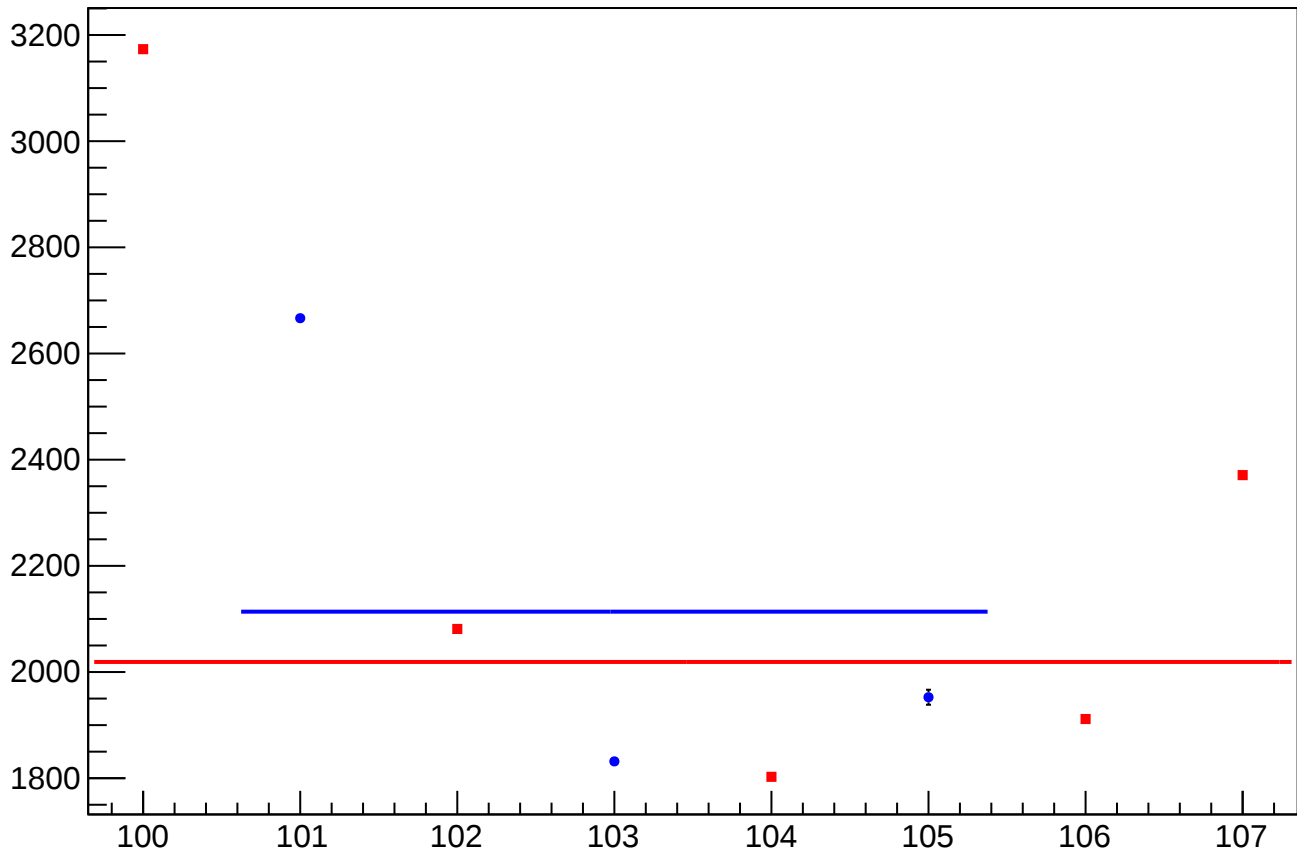
Right Out: 500.081+/-1608.189  $\chi^2$ /NDF: 1.9/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3013.311+/-2027.192  $\chi^2$ /NDF: 1.6/2

500.081+/-1608.189  $\chi^2$ /NDF: 1.9/4

# reg\_asym\_atl2\_rms vs slug



Right In: 2113.710+/-1.433  $\chi^2/\text{NDF}$ : 75448.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

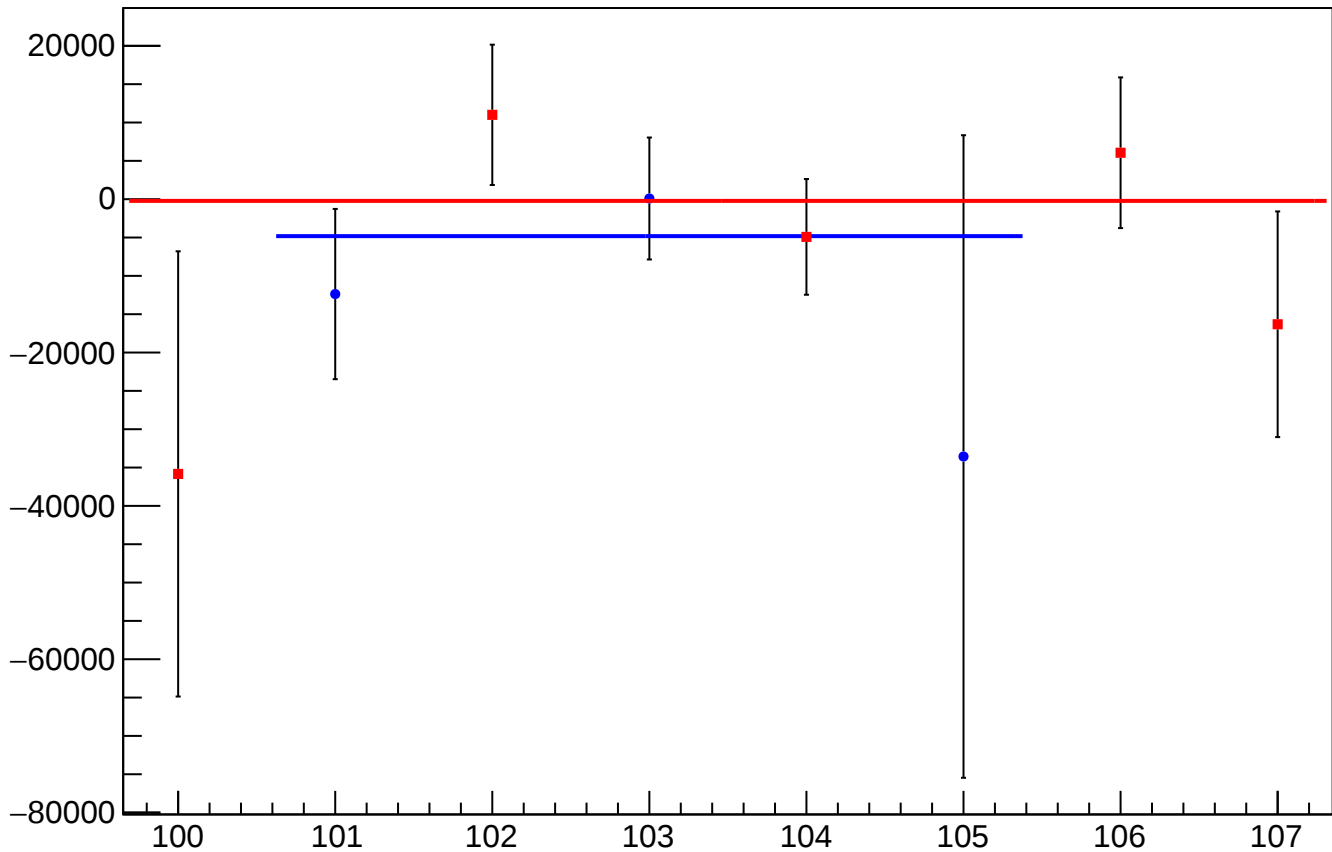
2113.710+/-1.433  $\chi^2/\text{NDF}$ : 75448.6/2

Right Out: 2018.985+/-1.137  $\chi^2/\text{NDF}$ : 50210.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2018.985+/-1.137  $\chi^2/\text{NDF}$ : 50210.8/4

# asym\_atl2\_correction\_mean vs slug



Right In: -4819.093+/-6389.178  $\chi^2/\text{NDF}$ : 1.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

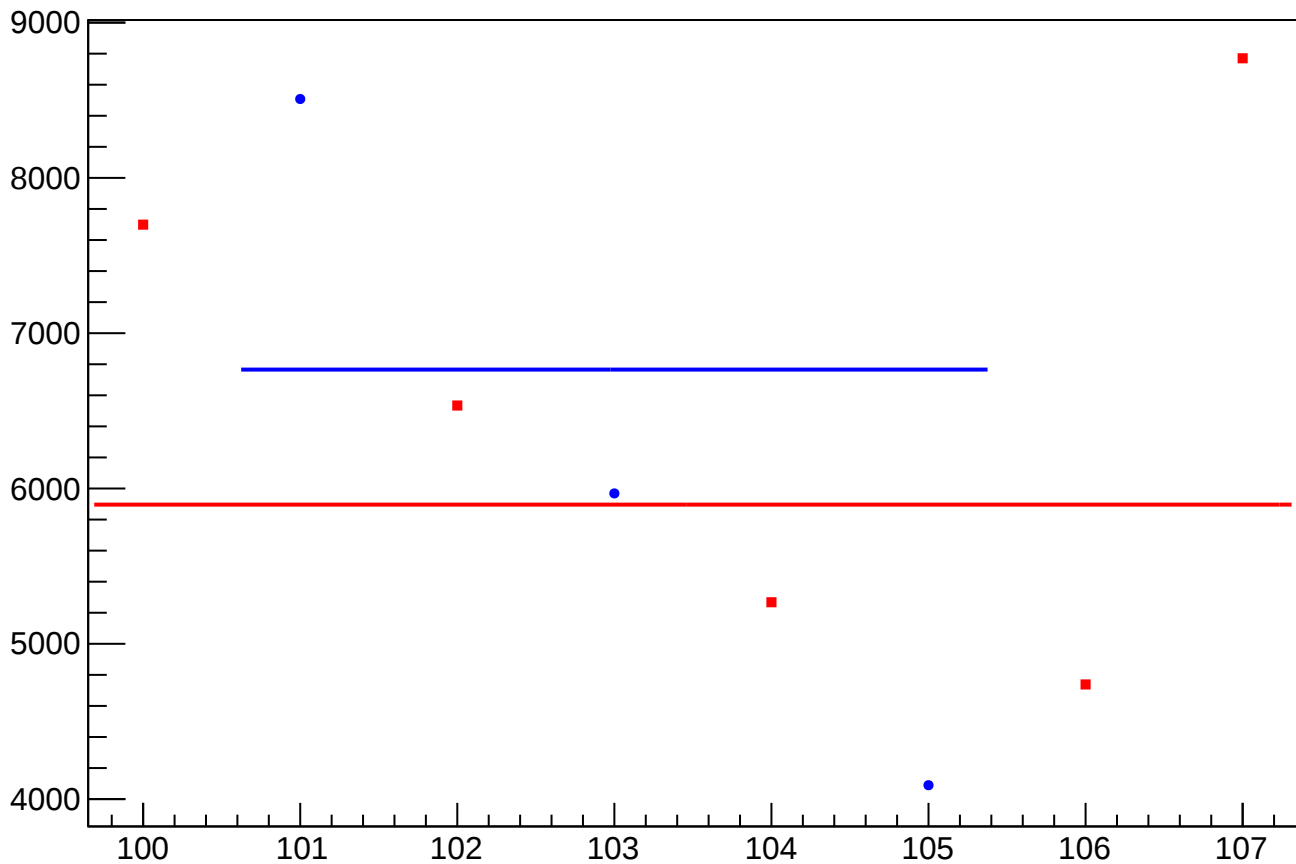
Right Out: -220.306+/-4679.893  $\chi^2/\text{NDF}$ : 5.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4819.093+/-6389.178  $\chi^2/\text{NDF}$ : 1.3/2

-220.306+/-4679.893  $\chi^2/\text{NDF}$ : 5.0/4

# asym\_atl2\_correction\_rms vs slug



Right In: 6765.711+/-4.518  $\chi^2/\text{NDF}$ : 77513.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

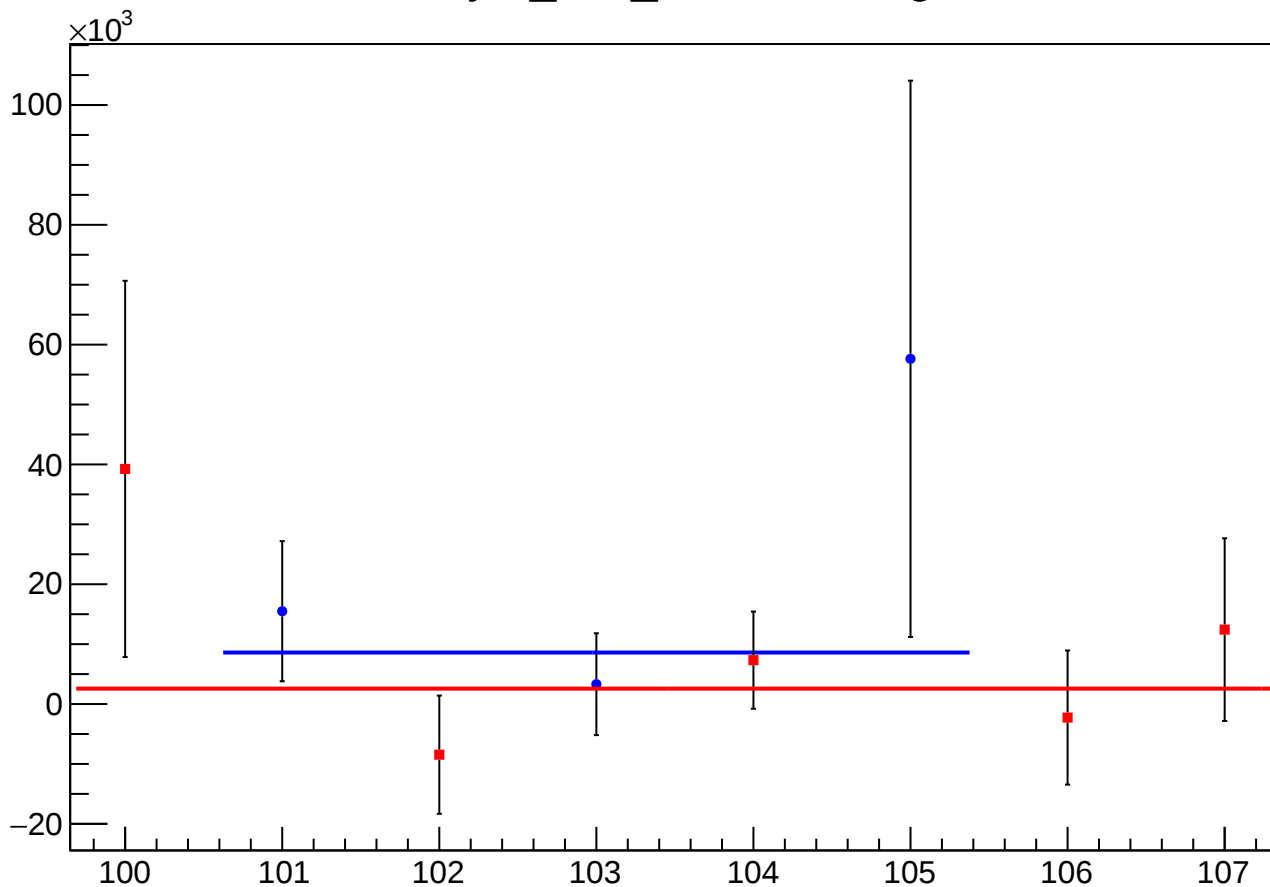
6765.711+/-4.518  $\chi^2/\text{NDF}$ : 77513.1/2

Right Out: 5896.209+/-3.309  $\chi^2/\text{NDF}$ : 135352.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5896.209+/-3.309  $\chi^2/\text{NDF}$ : 135352.5/4

# asym\_atl2\_mean vs slug



Right In: 8599.102+/-6802.174  $\chi^2/\text{NDF}$ : 1.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

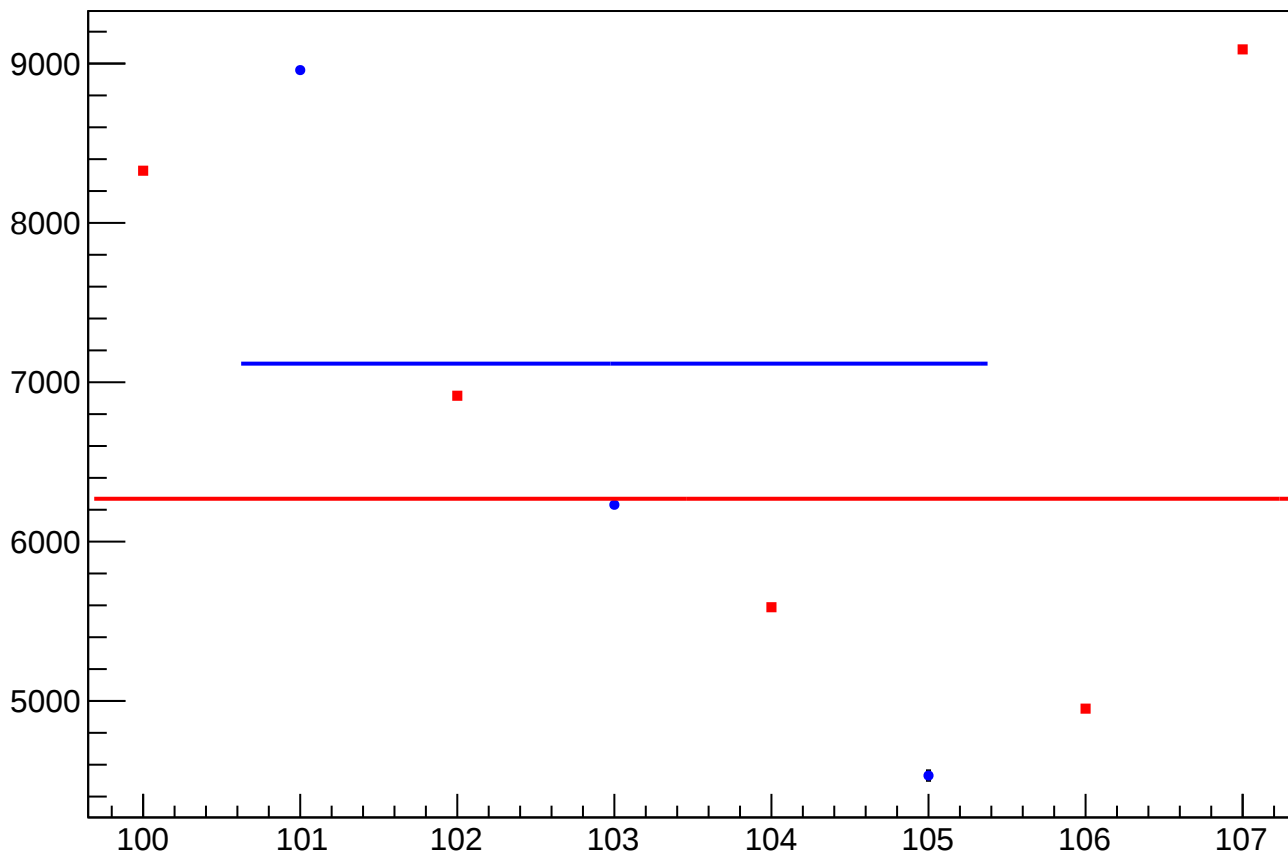
Right Out: 2574.162+/-5079.116  $\chi^2/\text{NDF}$ : 3.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

8599.102+/-6802.174  $\chi^2/\text{NDF}$ : 1.8/2

2574.162+/-5079.116  $\chi^2/\text{NDF}$ : 3.6/4

# asym\_atl2\_rms vs slug



Right In: 7116.830+/-4.810  $\chi^2/\text{NDF}$ : 77508.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

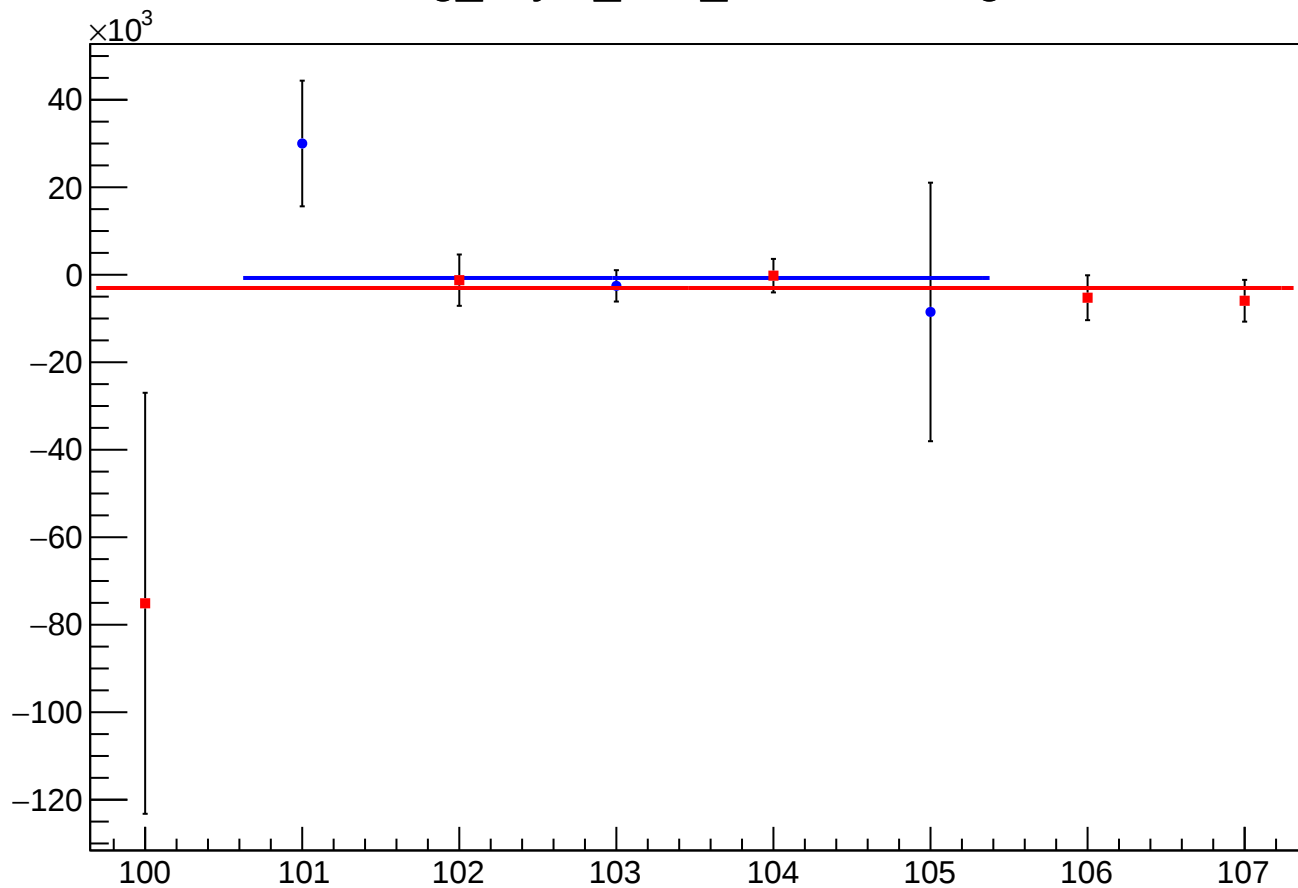
Right Out: 6268.912+/-3.591  $\chi^2/\text{NDF}$ : 127358.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7116.830+/-4.810  $\chi^2/\text{NDF}$ : 77508.6/2

6268.912+/-3.591  $\chi^2/\text{NDF}$ : 127358.3/4

# reg\_asym\_atr1\_mean vs slug



Right In: -735.228+/-3454.503  $\chi^2/\text{NDF}$ : 4.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

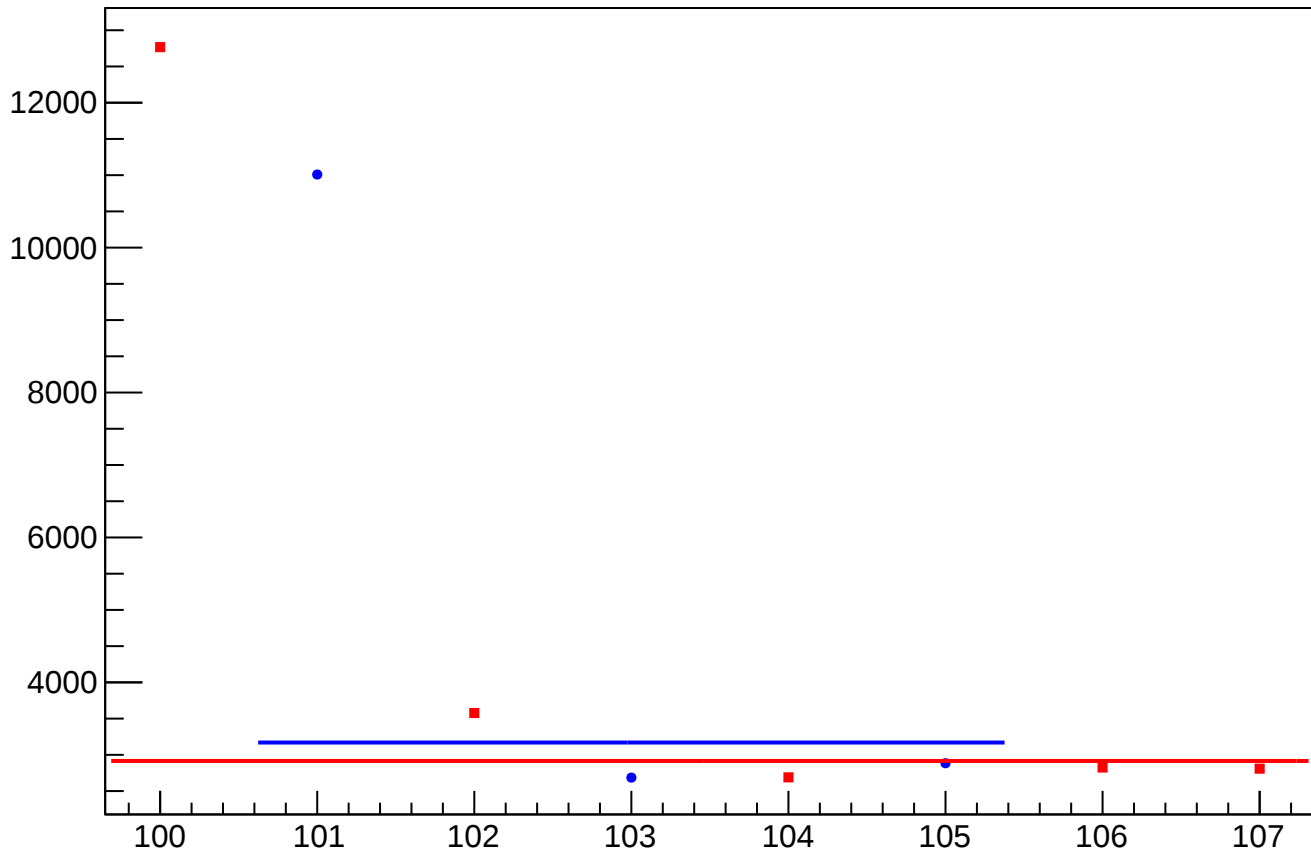
Right Out: -3022.887+/-2360.505  $\chi^2/\text{NDF}$ : 3.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-735.228+/-3454.503  $\chi^2/\text{NDF}$ : 4.9/2

-3022.887+/-2360.505  $\chi^2/\text{NDF}$ : 3.4/4

# reg\_asym\_atr1\_rms vs slug



Right In: 3169.861+/-2.443  $\chi^2/\text{NDF}$ : 632505.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

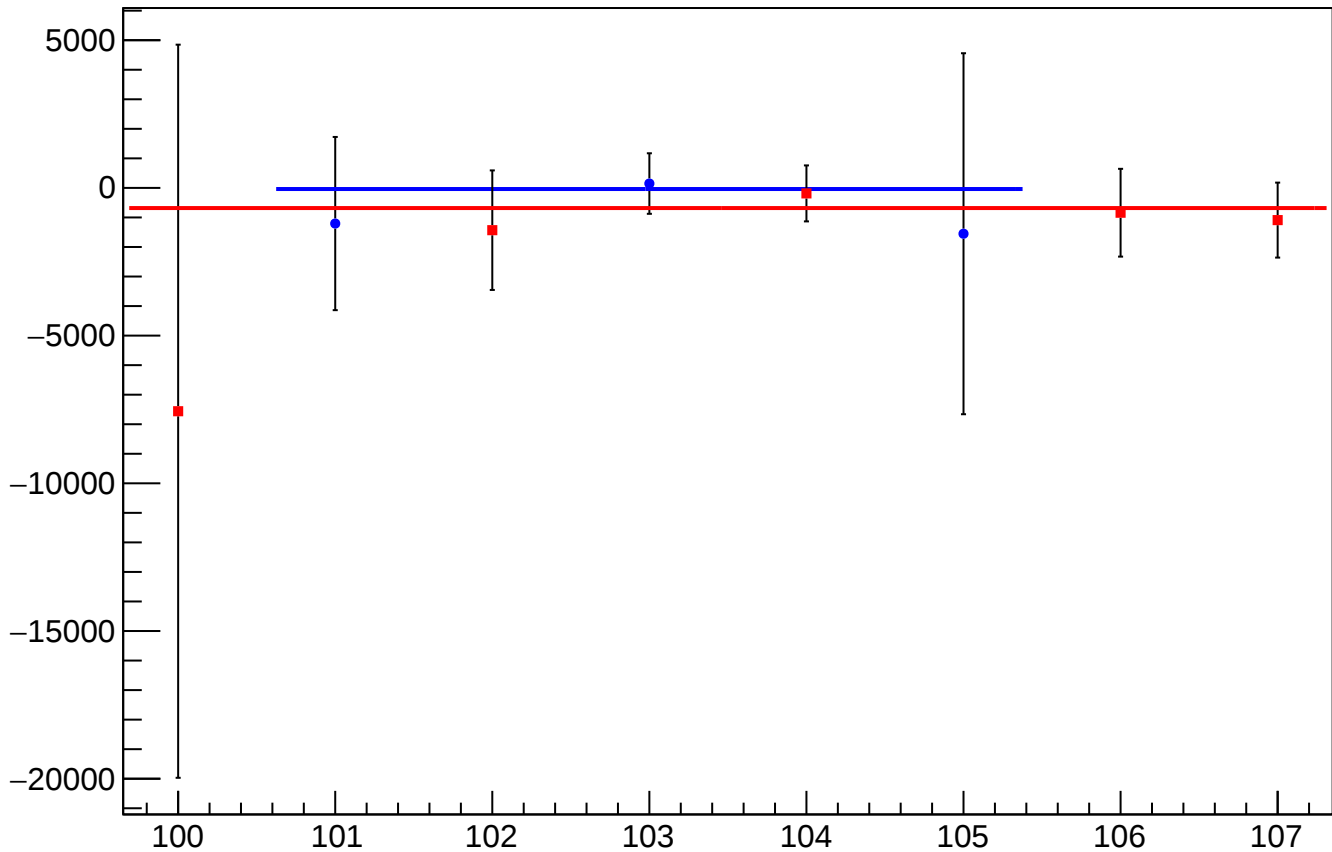
3169.861+/-2.443  $\chi^2/\text{NDF}$ : 632505.6/2

Right Out: 2915.477+/-1.669  $\chi^2/\text{NDF}$ : 117891.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2915.477+/-1.669  $\chi^2/\text{NDF}$ : 117891.4/4

asym\_atr1\_correction\_mean vs slug



Right In: -37.700+/-955.422  $\chi^2/\text{NDF}$ : 0.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

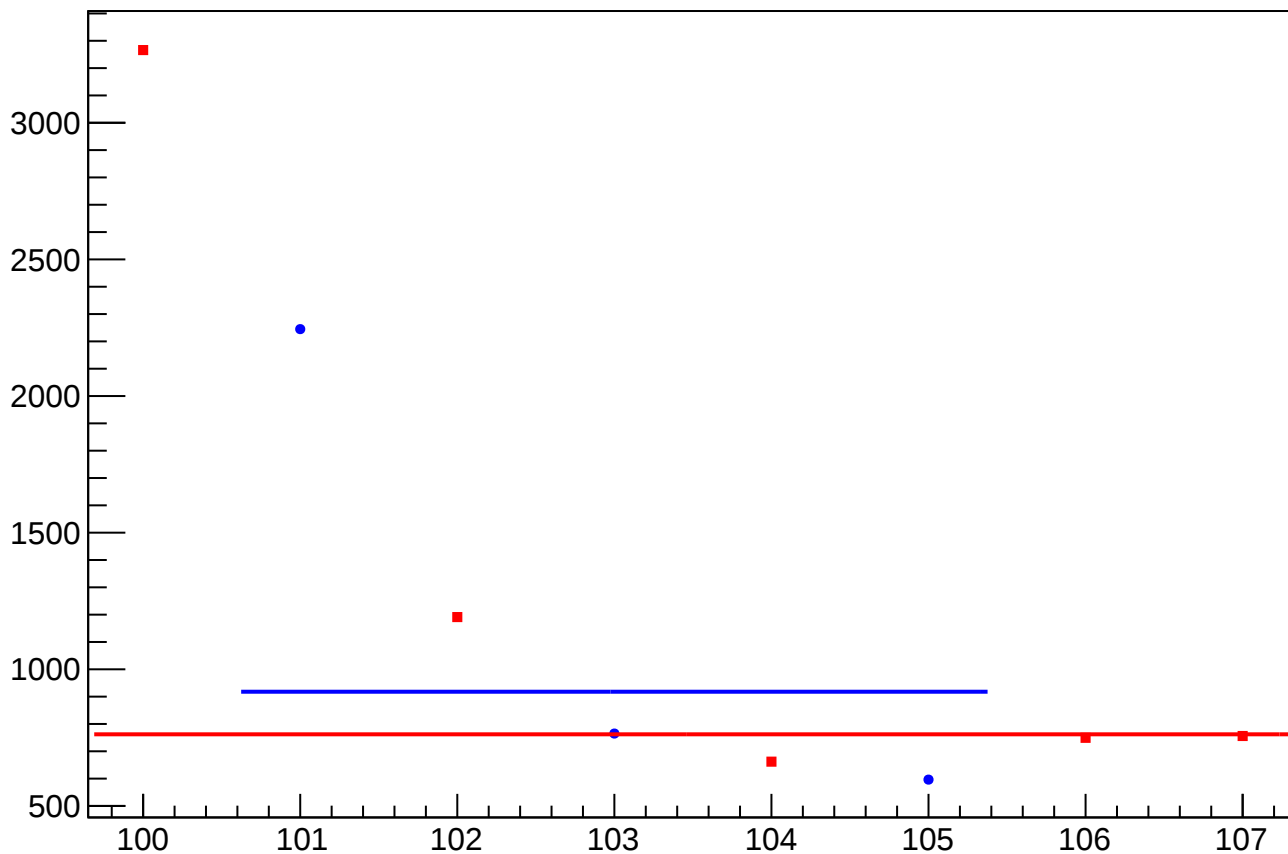
Right Out: -682.189+/-640.409  $\chi^2/\text{NDF}$ : 0.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-37.700+/-955.422  $\chi^2/\text{NDF}$ : 0.3/2

-682.189+/-640.409  $\chi^2/\text{NDF}$ : 0.8/4

# asym\_atr1\_correction\_rms vs slug



Right In: 917.969 $\pm$ 0.676  $\chi^2$ /NDF: 459900.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

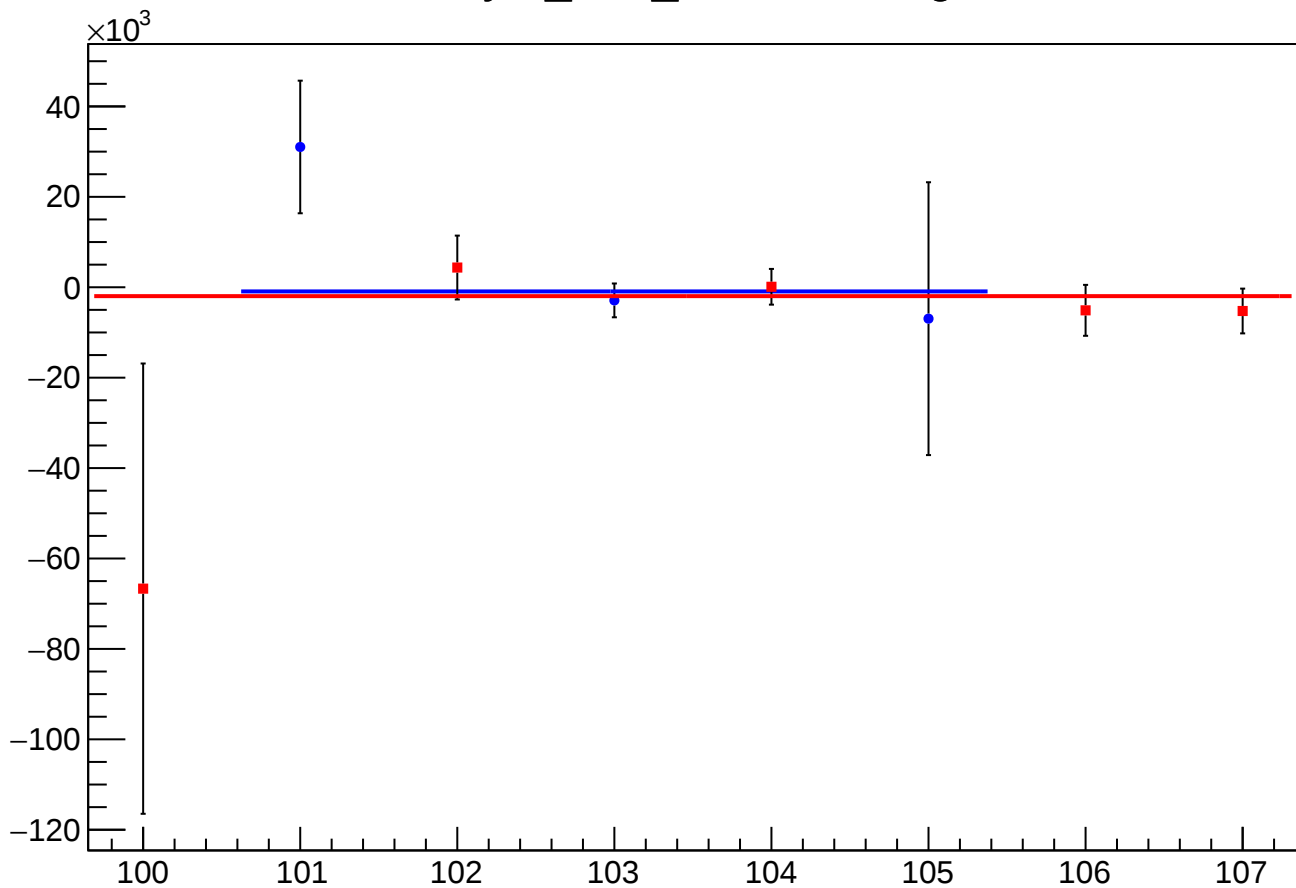
Right Out: 762.117 $\pm$ 0.453  $\chi^2$ /NDF: 193867.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

917.969 $\pm$ 0.676  $\chi^2$ /NDF: 459900.1/2

762.117 $\pm$ 0.453  $\chi^2$ /NDF: 193867.6/4

# asym\_atr1\_mean vs slug



Right In: -920.340 $\pm$ 3598.074  $\chi^2$ /NDF: 5.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

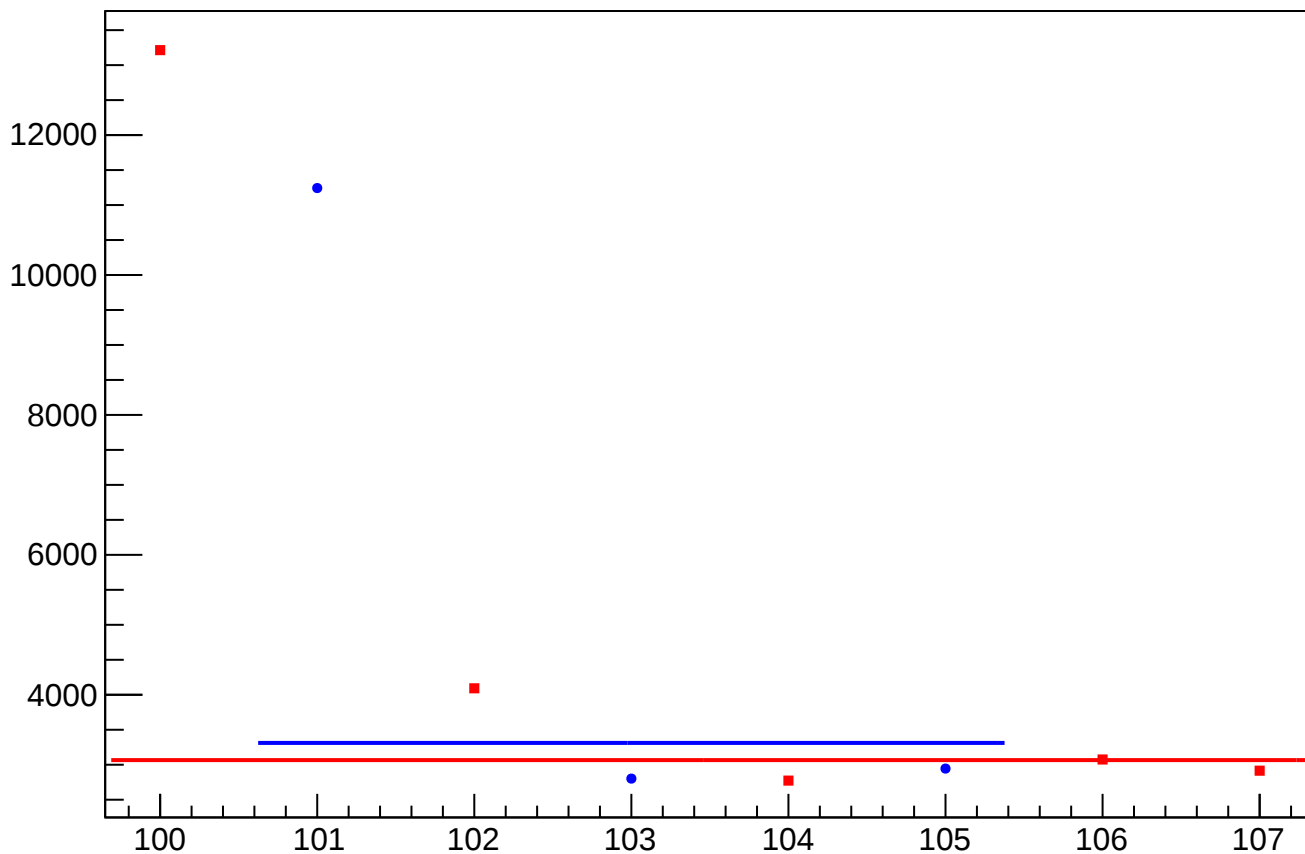
Right Out: -1964.270 $\pm$ 2525.486  $\chi^2$ /NDF: 3.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-920.340 $\pm$ 3598.074  $\chi^2$ /NDF: 5.1/2

-1964.270 $\pm$ 2525.486  $\chi^2$ /NDF: 3.5/4

# asym\_atr1\_rms vs slug



Right In: 3311.896+/-2.544  $\chi^2/\text{NDF}$ : 622344.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

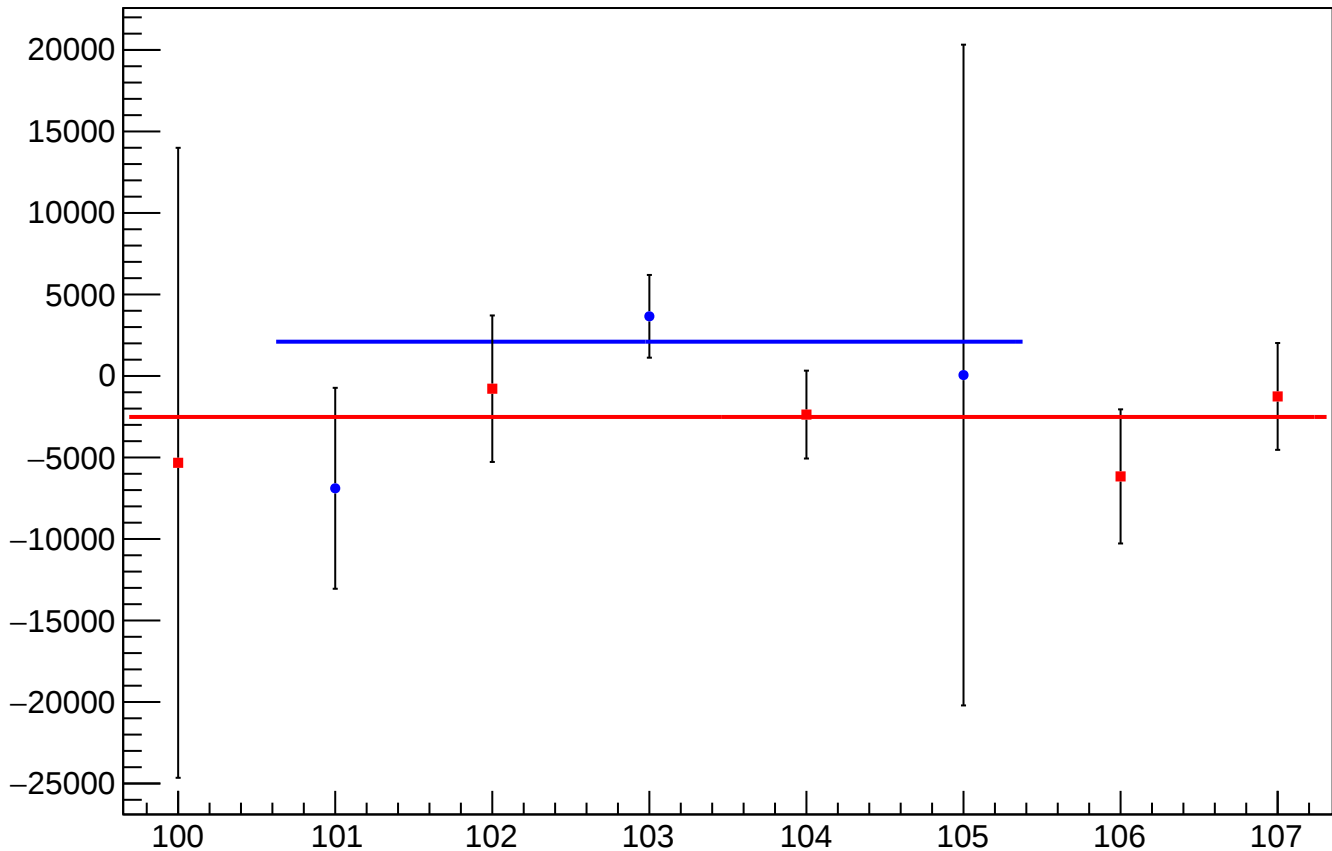
Right Out: 3066.120+/-1.786  $\chi^2/\text{NDF}$ : 138121.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3311.896+/-2.544  $\chi^2/\text{NDF}$ : 622344.0/2

3066.120+/-1.786  $\chi^2/\text{NDF}$ : 138121.8/4

# reg\_asym\_atr2\_mean vs slug



Right In: 2103.249+/-2330.912  $\chi^2/\text{NDF}$ : 2.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

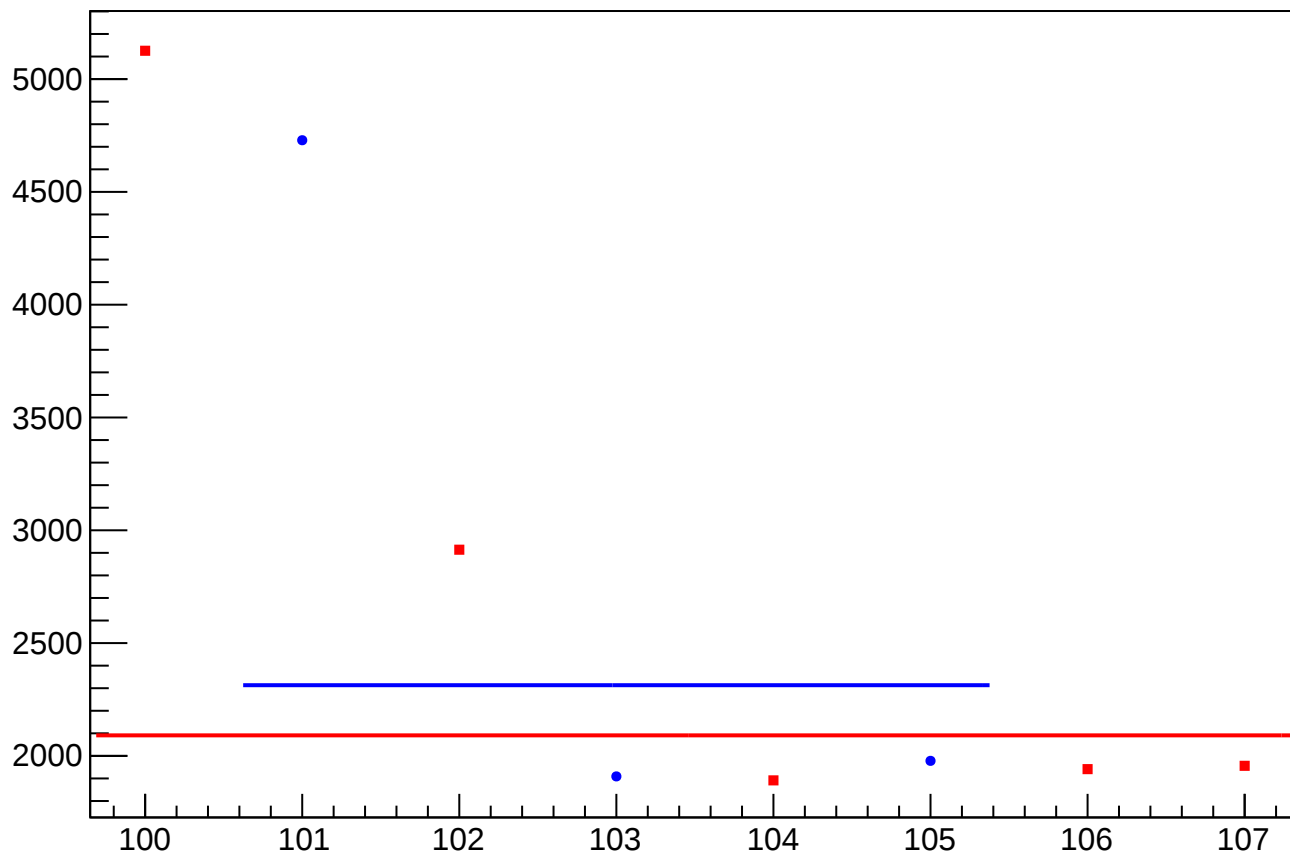
2103.249+/-2330.912  $\chi^2/\text{NDF}$ : 2.5/2

Right Out: -2514.003+/-1709.801  $\chi^2/\text{NDF}$ : 1.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2514.003+/-1709.801  $\chi^2/\text{NDF}$ : 1.1/4

# reg\_asym\_atr2\_rms vs slug



Right In: 2313.340+/-1.648  $\chi^2/\text{NDF}$ : 358566.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

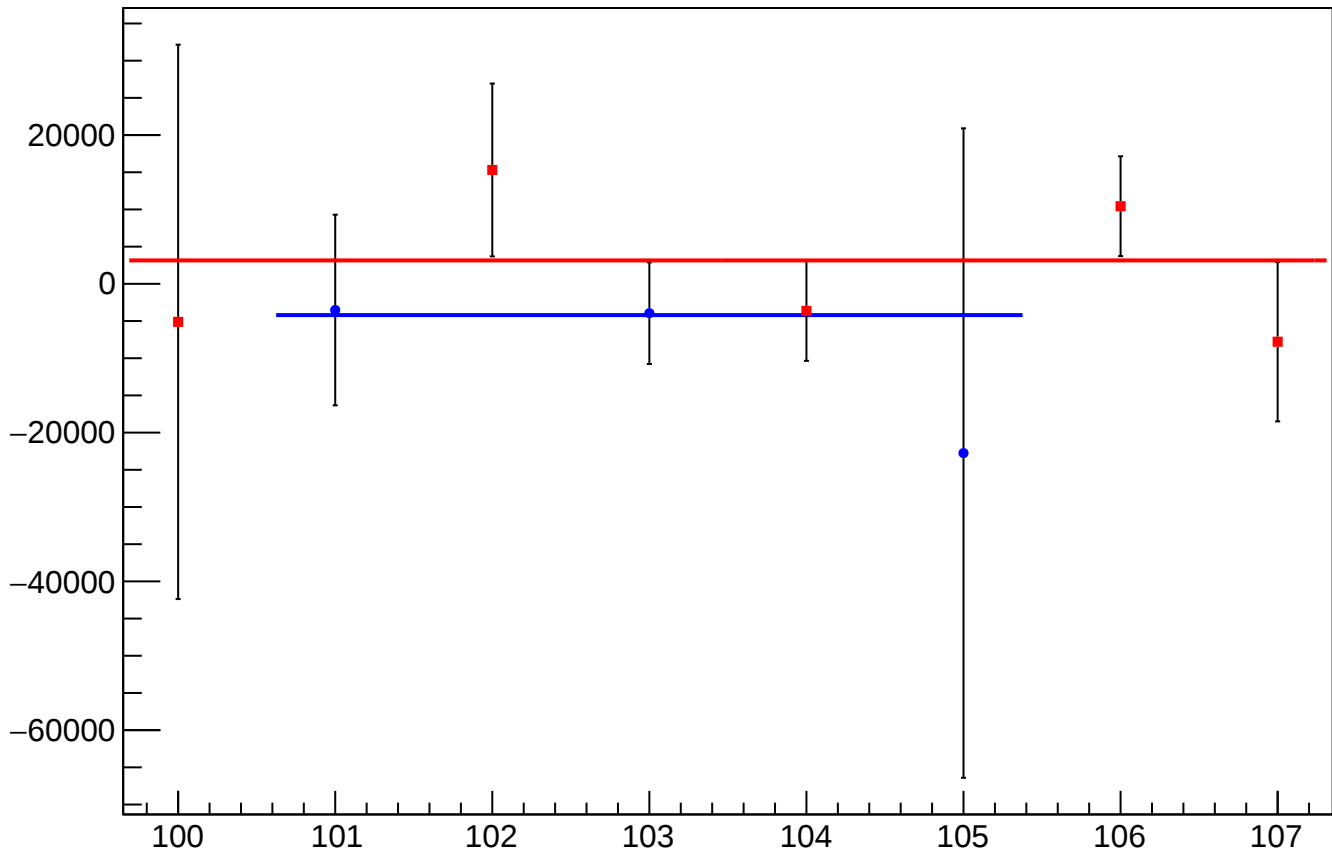
Right Out: 2091.013+/-1.209  $\chi^2/\text{NDF}$ : 133409.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2313.340+/-1.648  $\chi^2/\text{NDF}$ : 358566.8/2

2091.013+/-1.209  $\chi^2/\text{NDF}$ : 133409.7/4

# asym\_atr2\_correction\_mean vs slug



Right In: -4203.360+/-5973.219  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

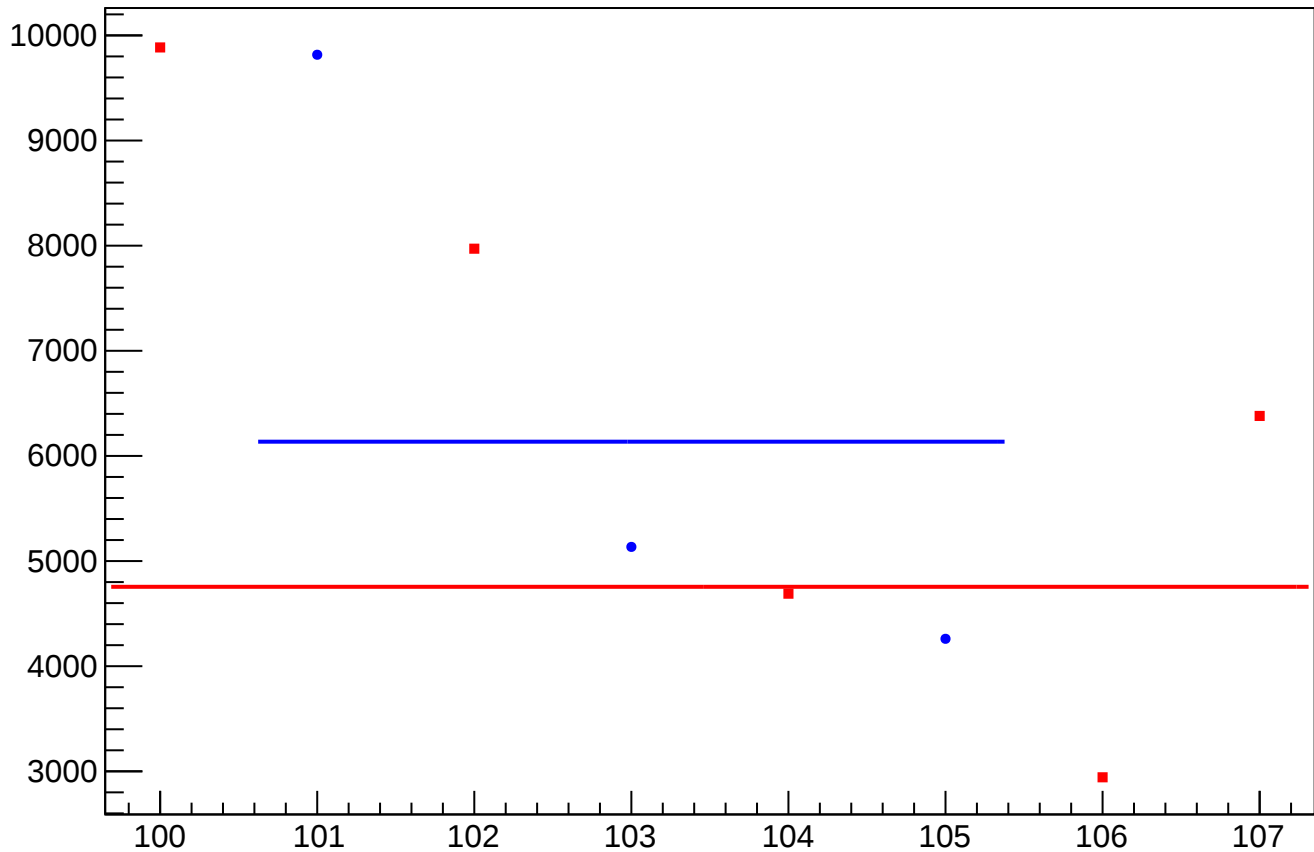
Right Out: 3149.666+/-4041.469  $\chi^2$ /NDF: 4.4/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-4203.360+/-5973.219  $\chi^2$ /NDF: 0.2/2

3149.666+/-4041.469  $\chi^2$ /NDF: 4.4/4

# asym\_atr2\_correction\_rms vs slug



Right In: 6135.535+/-4.224  $\chi^2/\text{NDF}$ : 211563.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

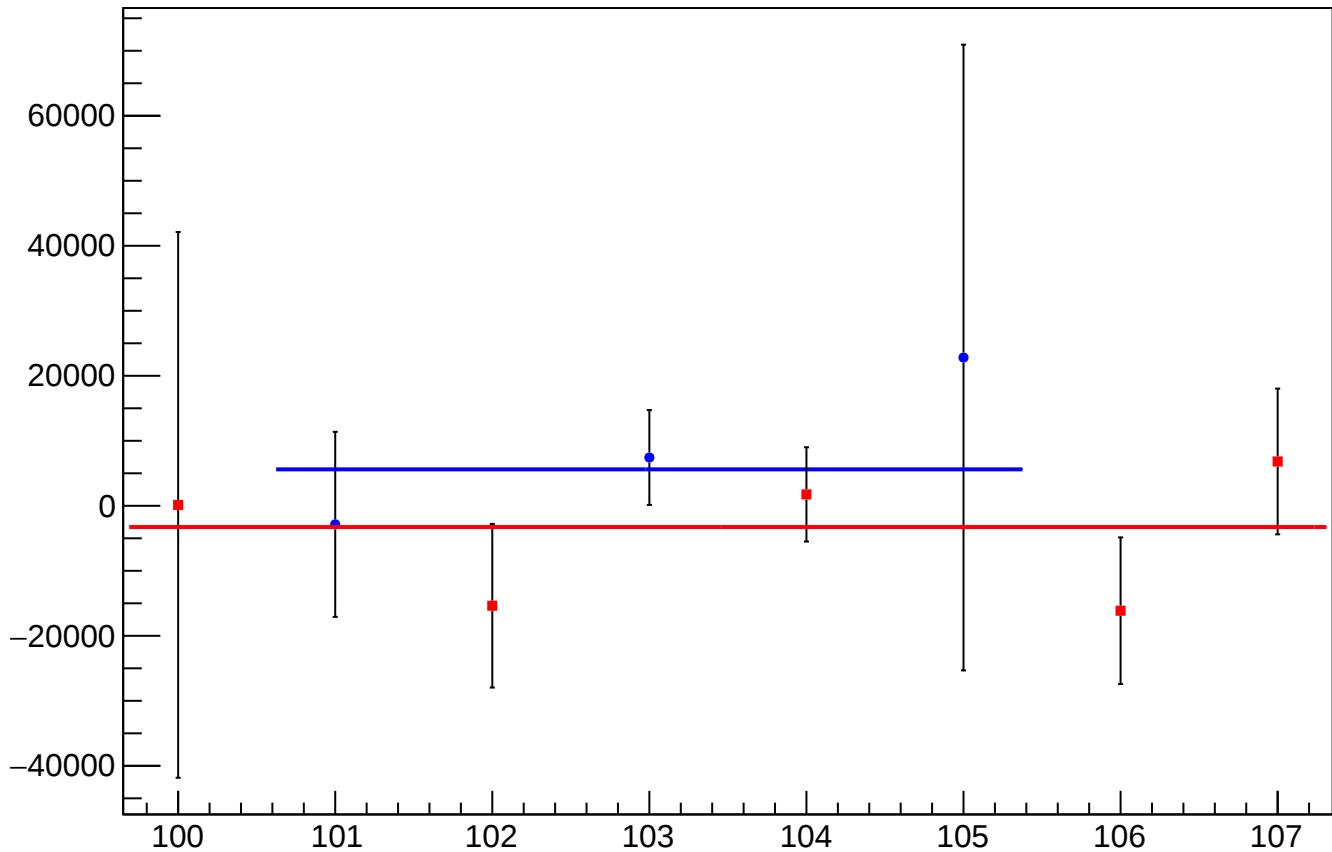
6135.535+/-4.224  $\chi^2/\text{NDF}$ : 211563.2/2

Right Out: 4755.176+/-2.858  $\chi^2/\text{NDF}$ : 383140.4/4

4755.176+/-2.858  $\chi^2/\text{NDF}$ : 383140.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_mean vs slug



Right In: 5605.734+/-6431.556  $\chi^2/\text{NDF}$ : 0.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

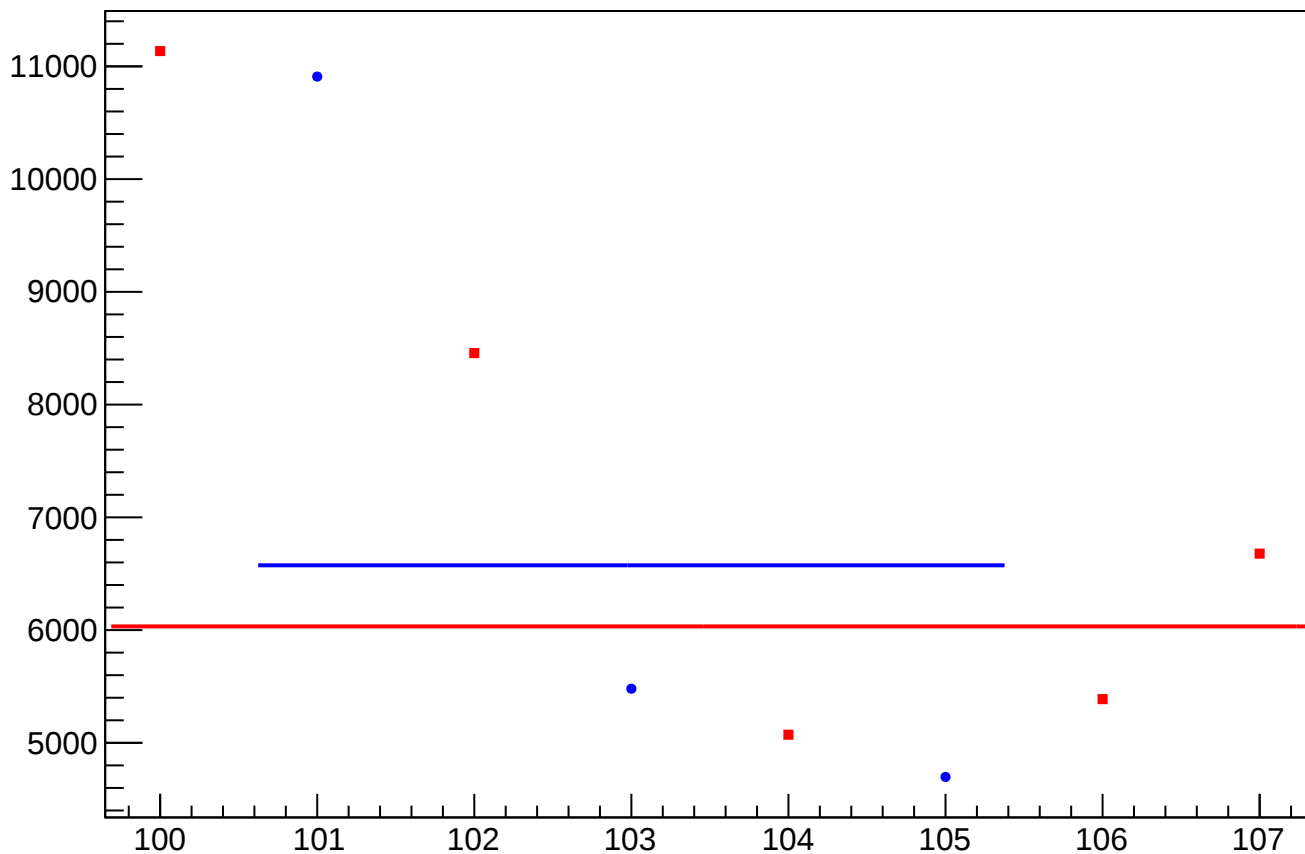
5605.734+/-6431.556  $\chi^2/\text{NDF}$ : 0.5/2

Right Out: -3264.788+/-4896.487  $\chi^2/\text{NDF}$ : 3.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3264.788+/-4896.487  $\chi^2/\text{NDF}$ : 3.5/4

# asym\_atr2\_rms vs slug



Right In: 6574.584+/-4.548  $\chi^2/\text{NDF}$ : 233592.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

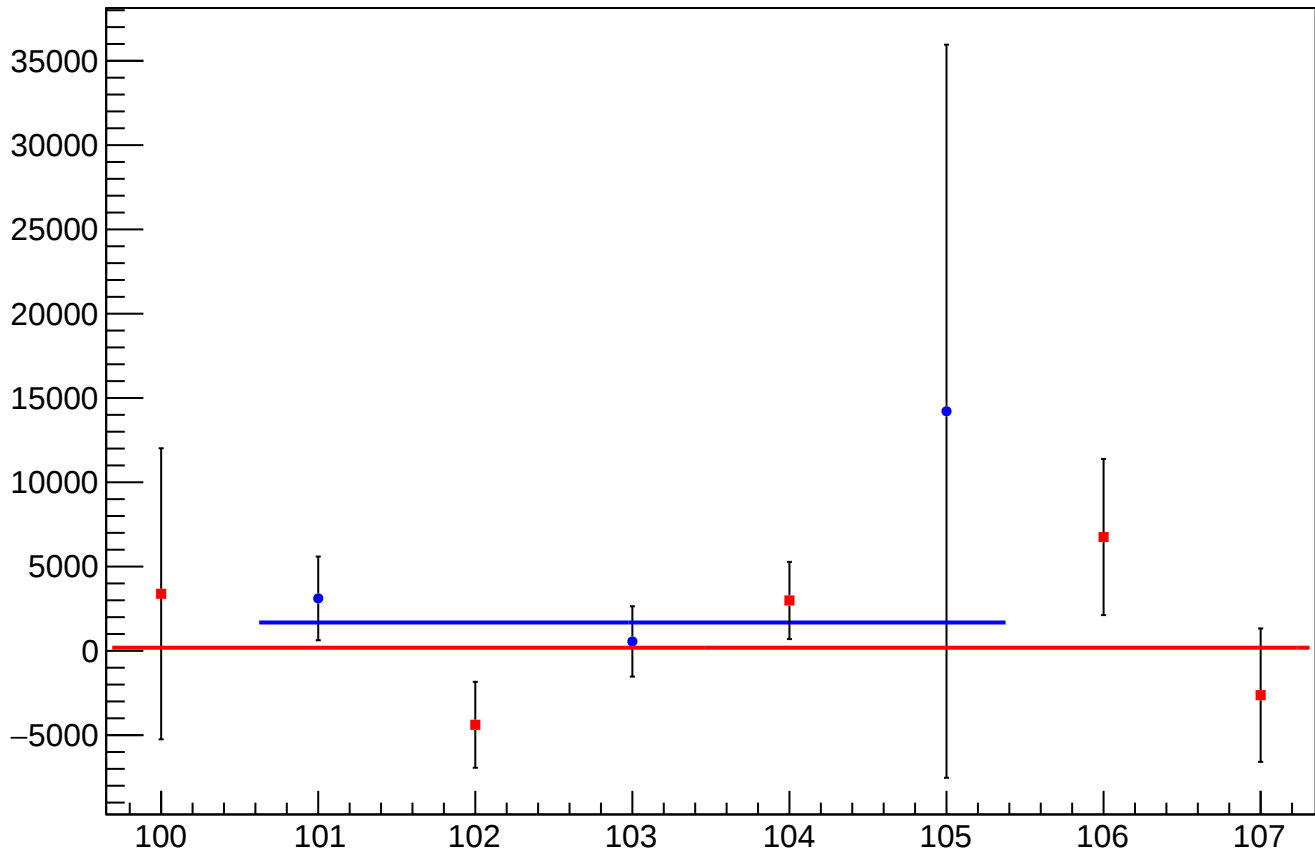
Right Out: 6032.644+/-3.462  $\chi^2/\text{NDF}$ : 152004.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6574.584+/-4.548  $\chi^2/\text{NDF}$ : 233592.6/2

6032.644+/-3.462  $\chi^2/\text{NDF}$ : 152004.5/4

# reg\_asym\_atl\_avg\_mean vs slug



Right In: 1682.840+/-1592.898  $\chi^2/\text{NDF}$ : 1.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

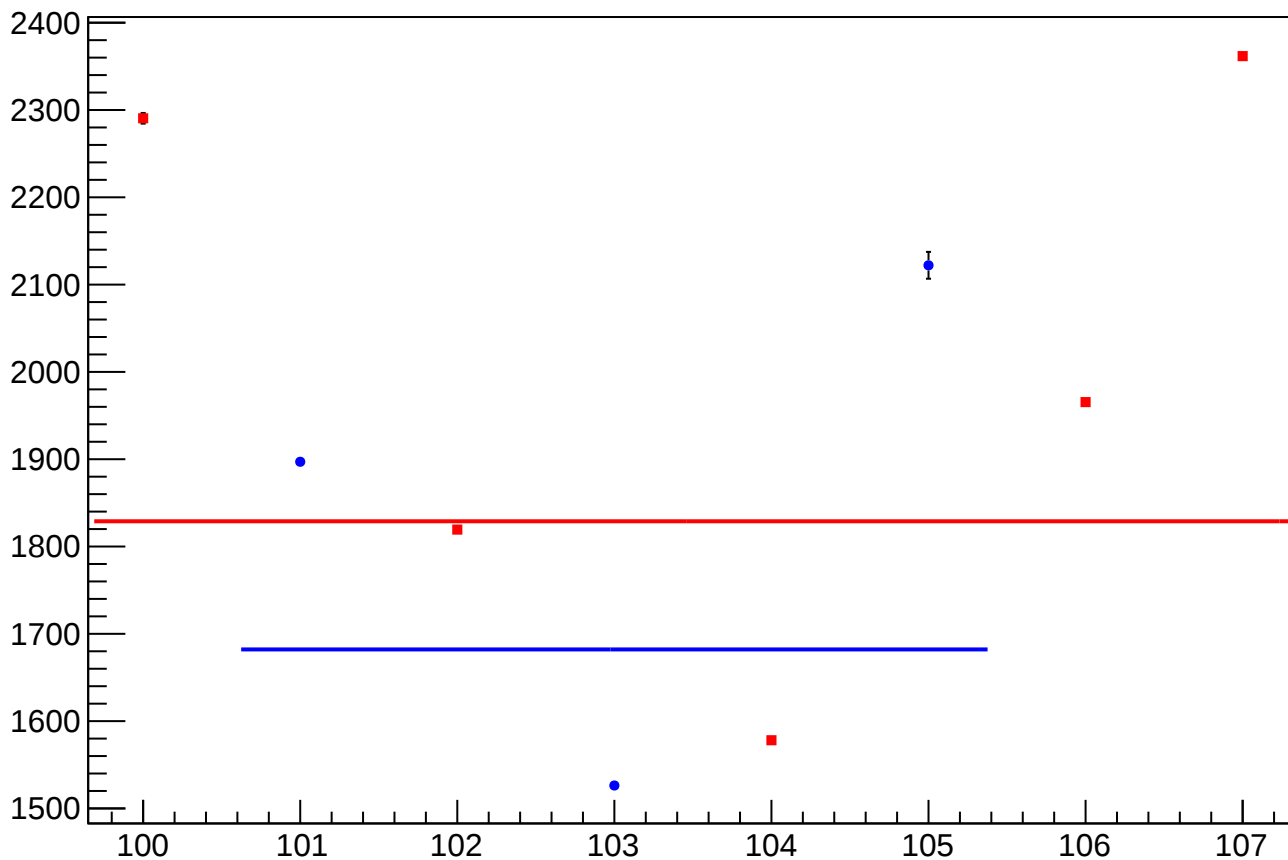
Right Out: 187.369+/-1460.818  $\chi^2/\text{NDF}$ : 7.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1682.840+/-1592.898  $\chi^2/\text{NDF}$ : 1.0/2

187.369+/-1460.818  $\chi^2/\text{NDF}$ : 7.4/4

# reg\_asym\_atl\_avg\_rms vs slug



Right In: 1682.127+/-1.126  $\chi^2/\text{NDF}$ : 26977.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

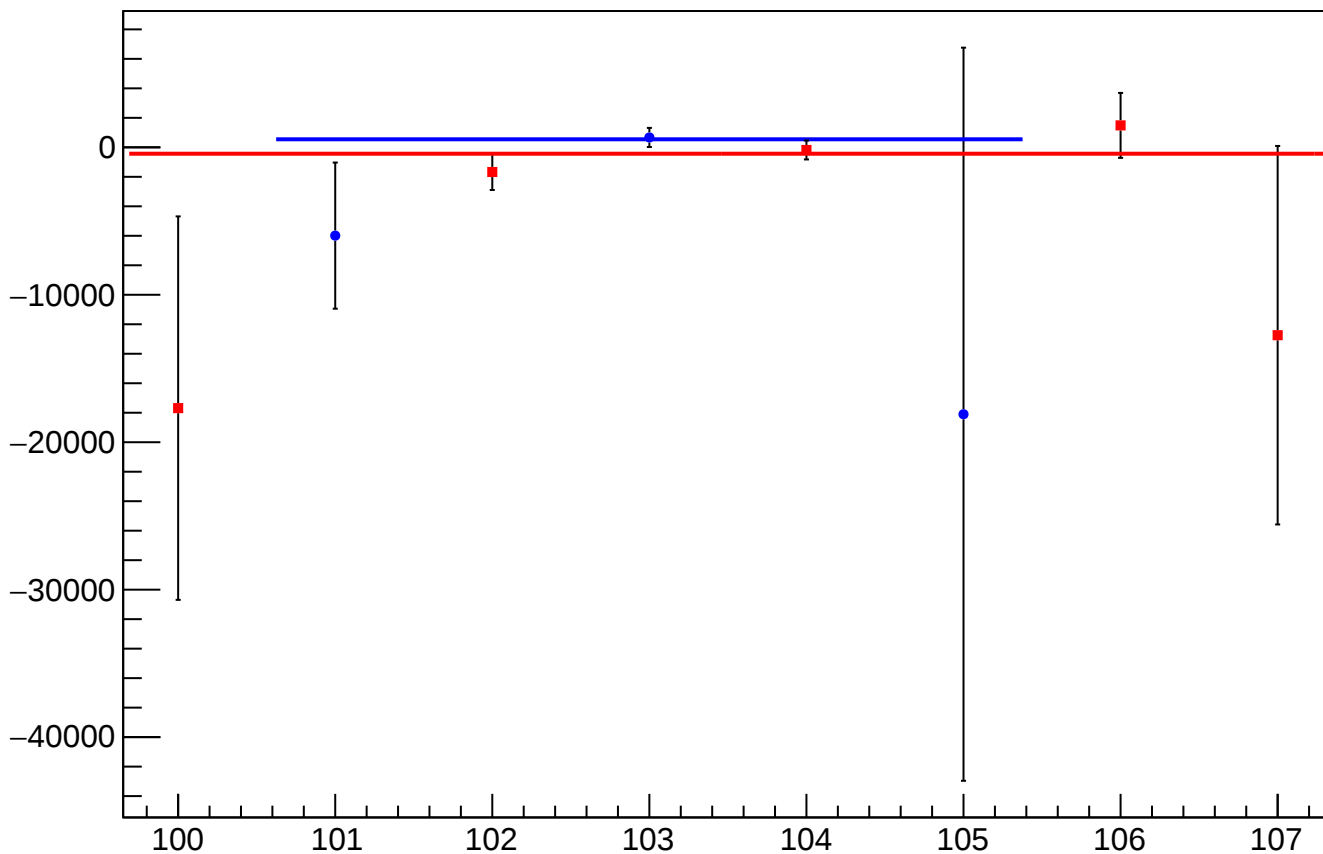
1682.127+/-1.126  $\chi^2/\text{NDF}$ : 26977.7/2

Right Out: 1828.915+/-1.012  $\chi^2/\text{NDF}$ : 68486.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1828.915+/-1.012  $\chi^2/\text{NDF}$ : 68486.8/4

# asym\_atl\_avg\_correction\_mean vs slug



Right In: 545.421+/-642.883  $\chi^2$ /NDF: 2.3/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

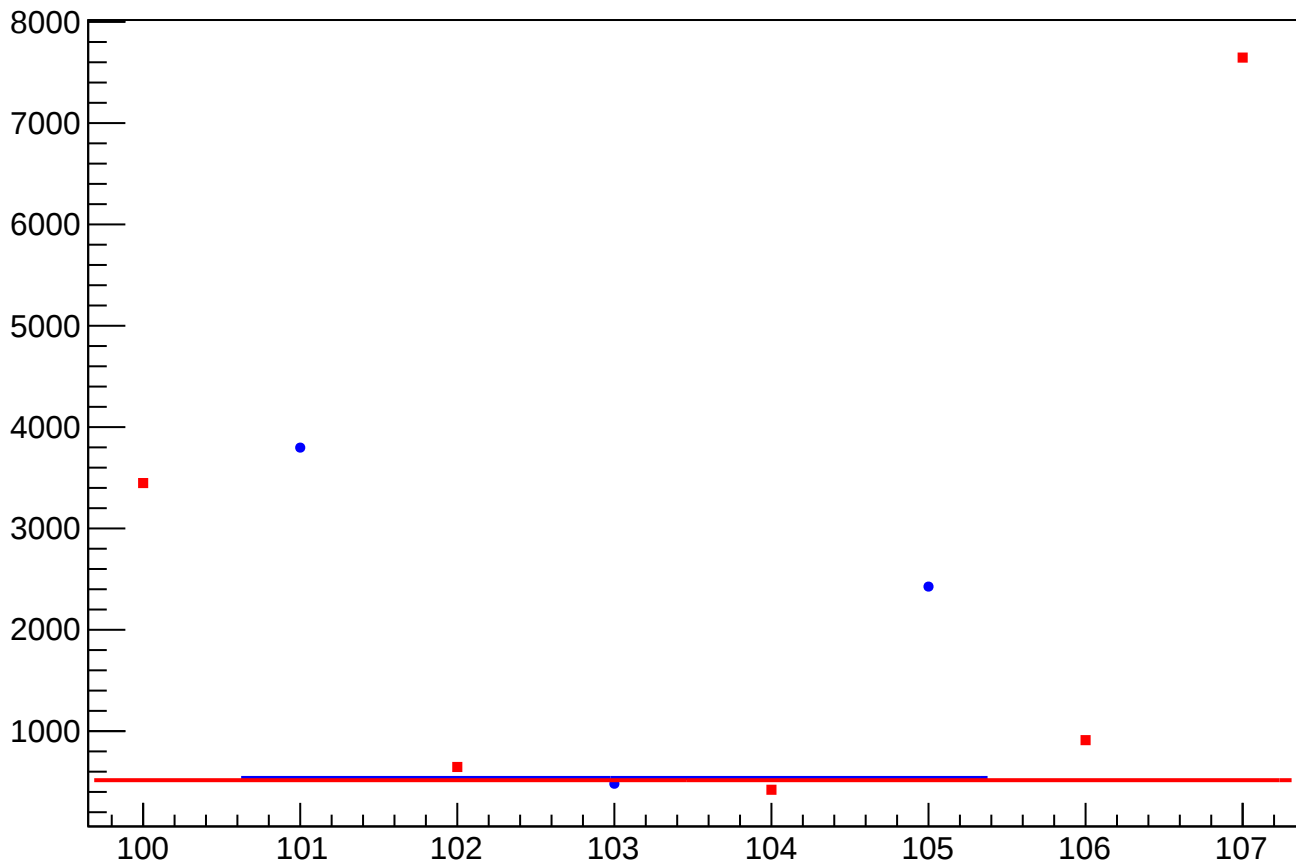
Right Out: -432.666+/-548.684  $\chi^2$ /NDF: 4.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

545.421+/-642.883  $\chi^2$ /NDF: 2.3/2

-432.666+/-548.684  $\chi^2$ /NDF: 4.6/4

# asym\_atl\_avg\_correction\_rms vs slug



Right In: 538.065+/-0.455  $\chi^2/\text{NDF}$ : 892267.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

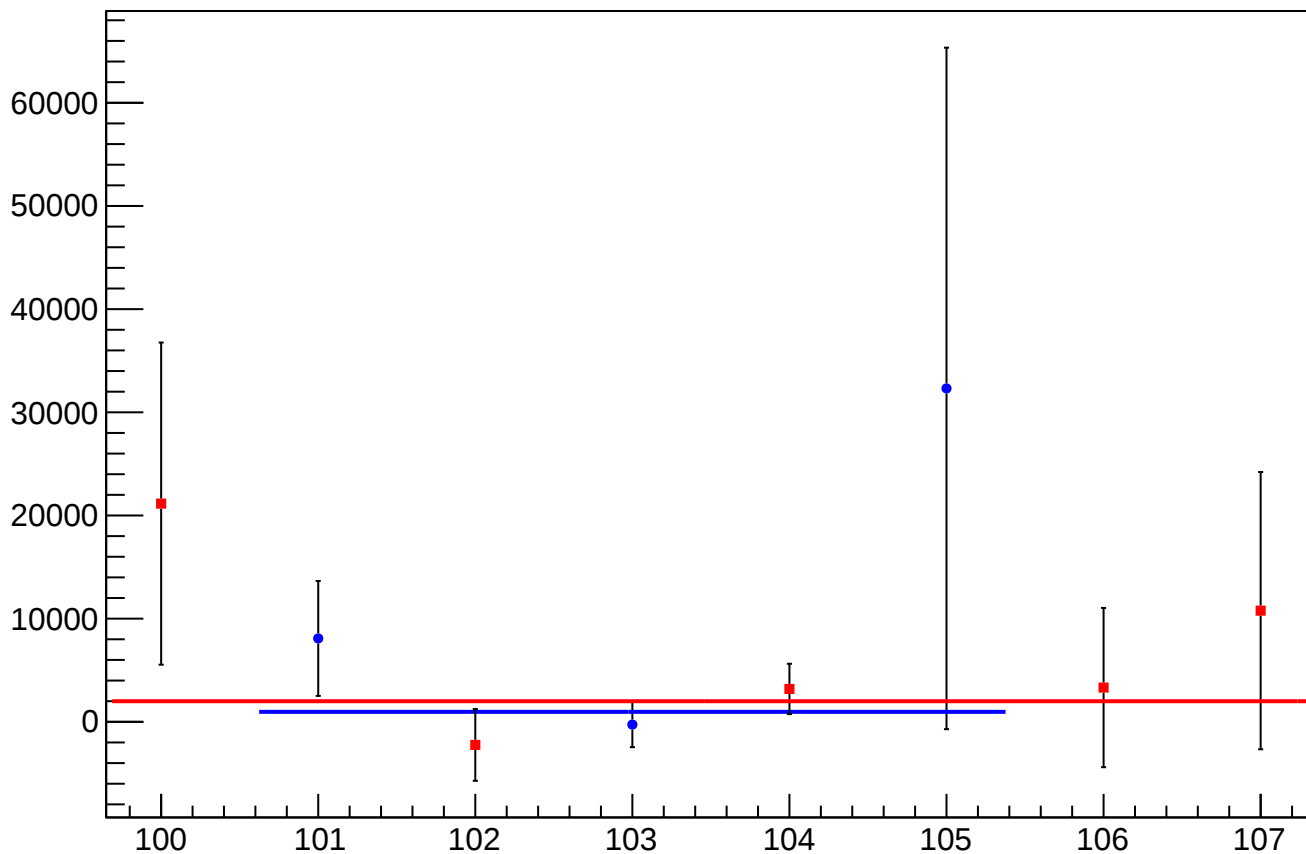
538.065+/-0.455  $\chi^2/\text{NDF}$ : 892267.9/2

Right Out: 515.987+/-0.388  $\chi^2/\text{NDF}$ : 849324.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

515.987+/-0.388  $\chi^2/\text{NDF}$ : 849324.3/4

# asym\_atl\_avg\_mean vs slug



Right In: 967.919+/-2033.074  $\chi^2/\text{NDF}$ : 2.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

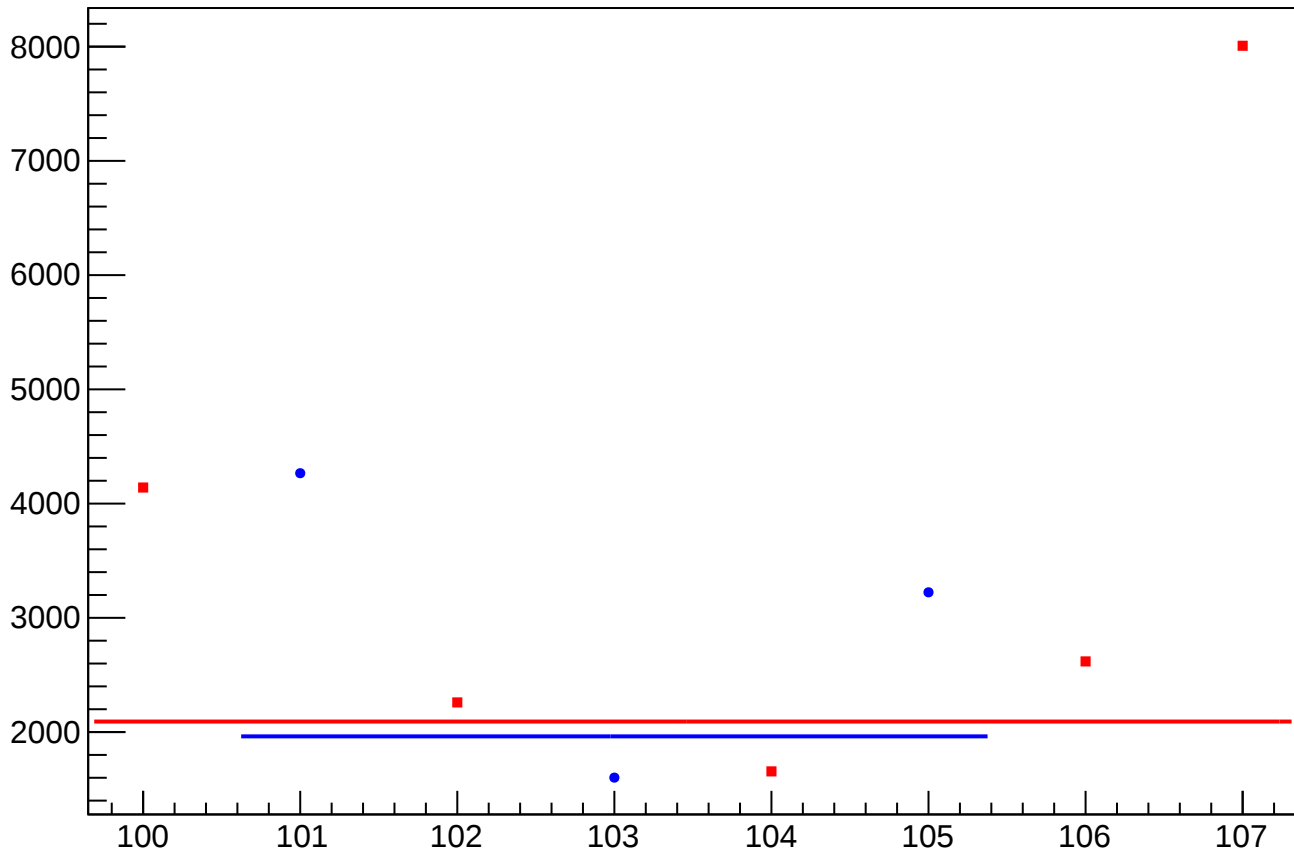
Right Out: 1996.095+/-1900.210  $\chi^2/\text{NDF}$ : 3.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

967.919+/-2033.074  $\chi^2/\text{NDF}$ : 2.9/2

1996.095+/-1900.210  $\chi^2/\text{NDF}$ : 3.7/4

# asym\_atl\_avg\_rms vs slug



Right In: 1962.502+/-1.438  $\chi^2/\text{NDF}$ : 399466.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

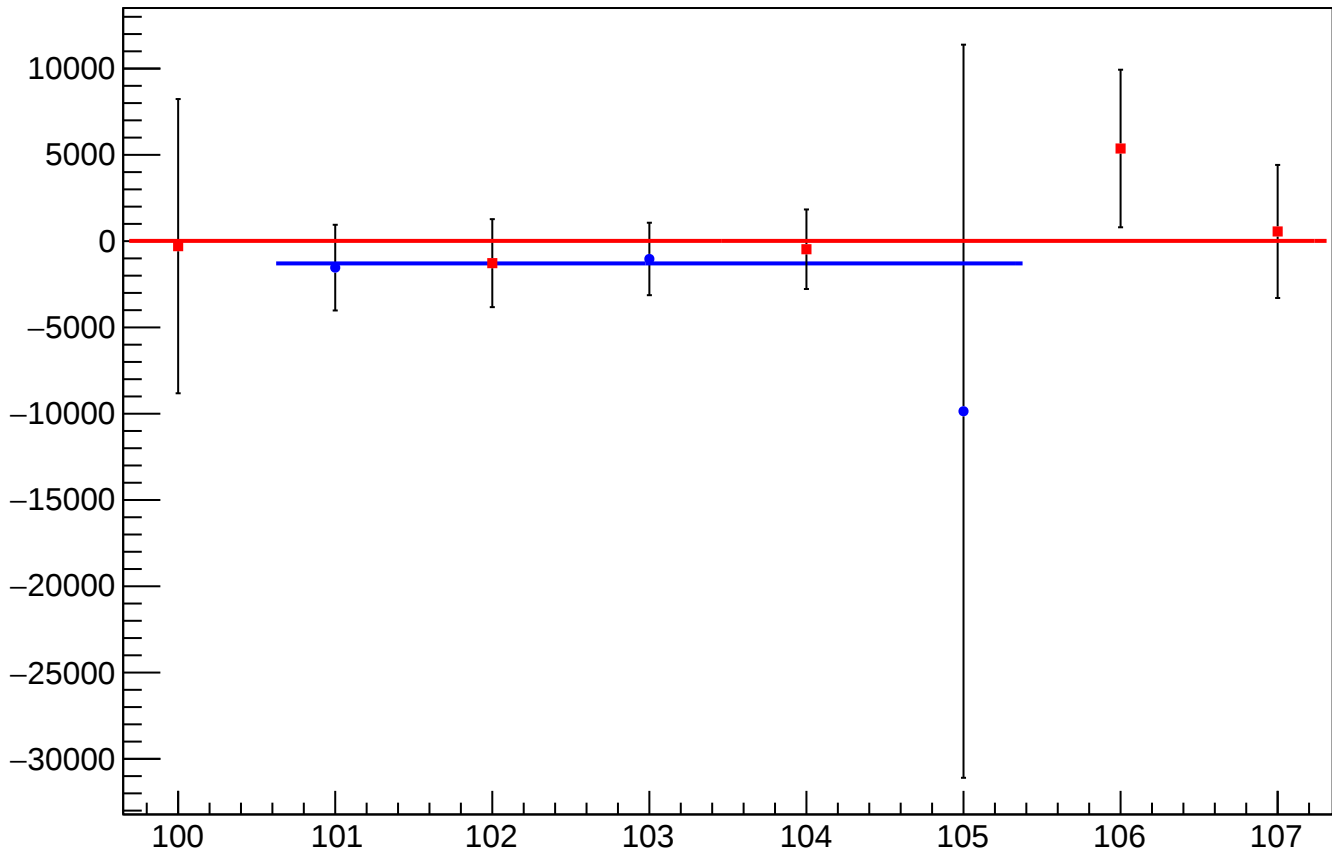
1962.502+/-1.438  $\chi^2/\text{NDF}$ : 399466.2/2

Right Out: 2092.104+/-1.302  $\chi^2/\text{NDF}$ : 509725.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2092.104+/-1.302  $\chi^2/\text{NDF}$ : 509725.0/4

# reg\_asym\_atl\_dd\_mean vs slug



Right In: -1290.567 $\pm$ 1598.491  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

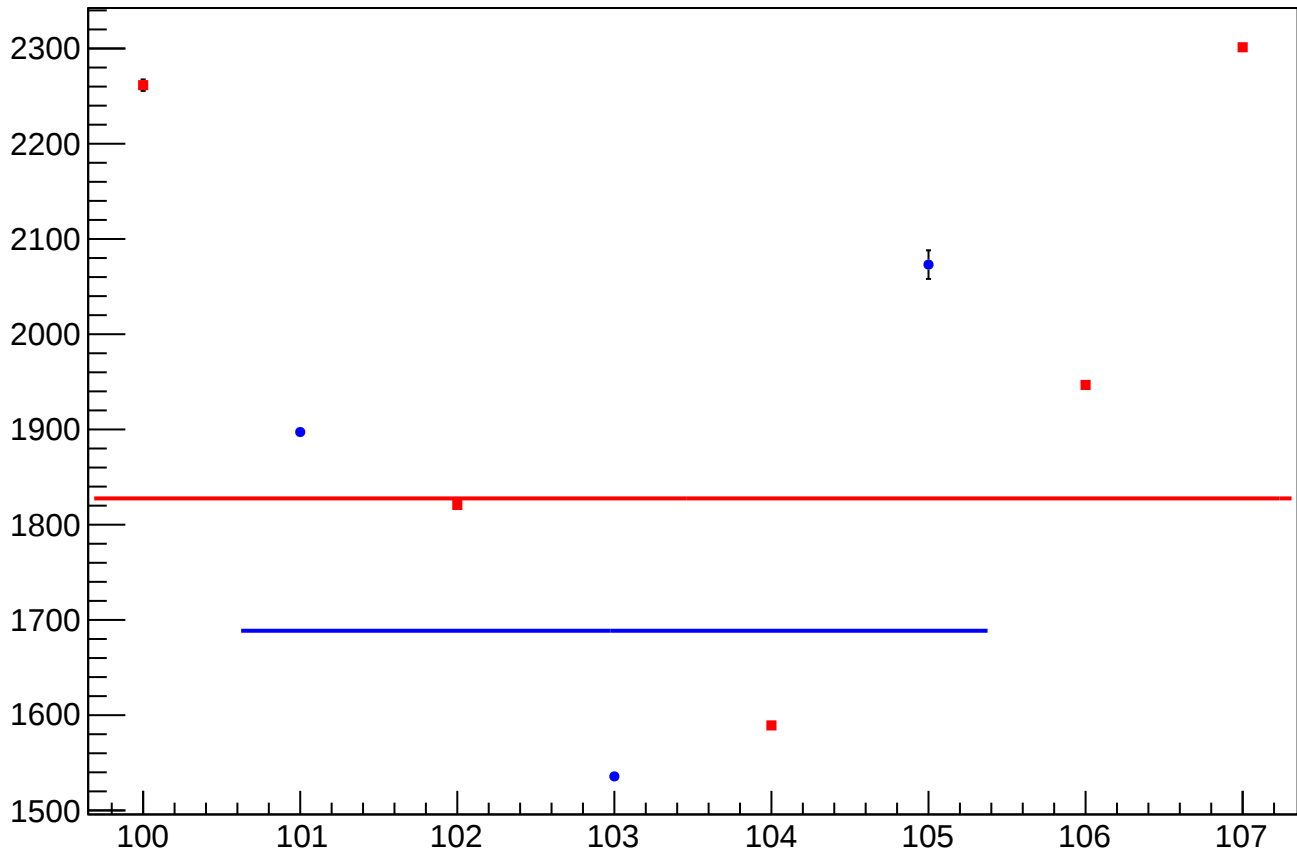
Right Out: 14.737 $\pm$ 1456.954  $\chi^2$ /NDF: 1.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-1290.567 $\pm$ 1598.491  $\chi^2$ /NDF: 0.2/2

14.737 $\pm$ 1456.954  $\chi^2$ /NDF: 1.7/4

# reg\_asym\_atl\_dd\_rms vs slug



Right In: 1688.646 $\pm$ 1.130  $\chi^2$ /NDF: 25392.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

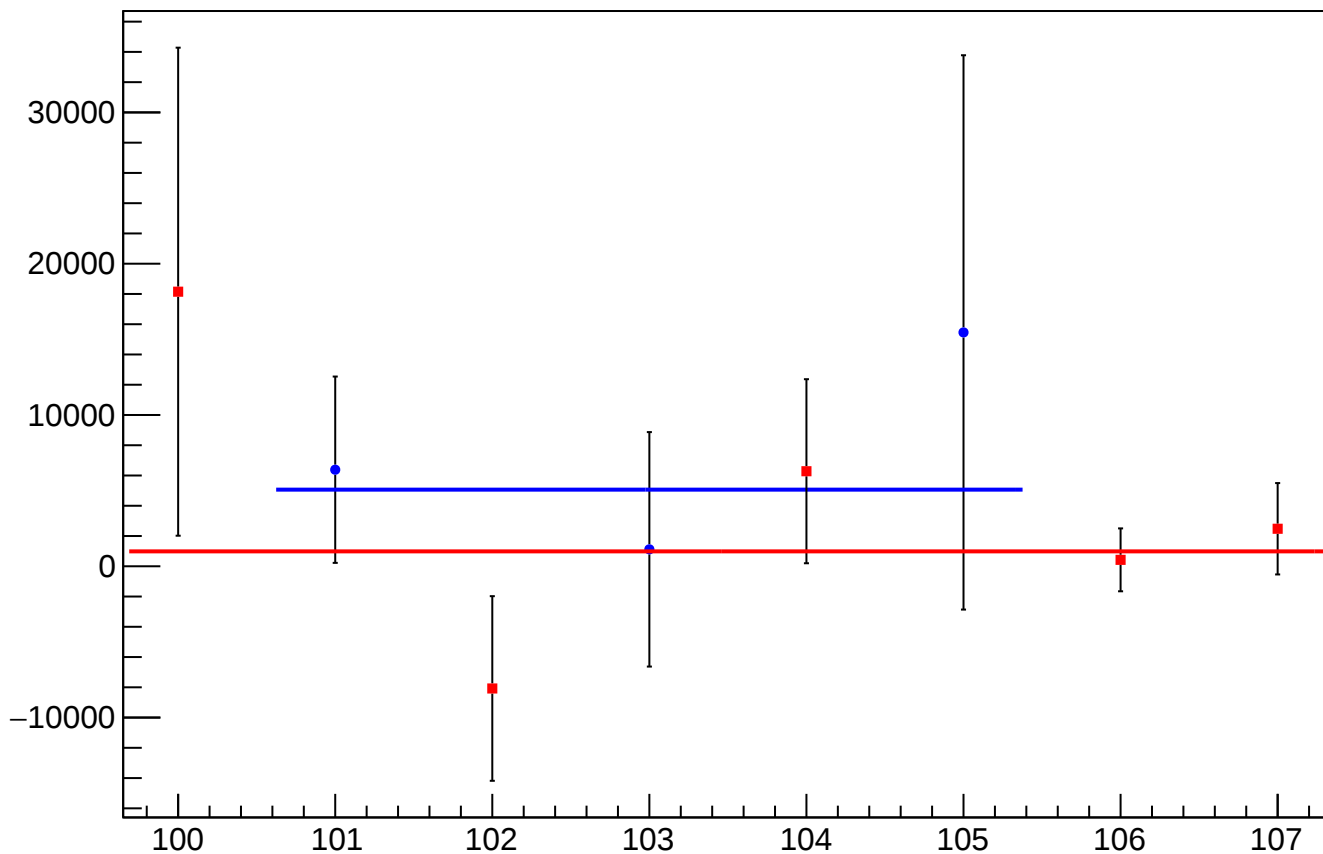
1688.646 $\pm$ 1.130  $\chi^2$ /NDF: 25392.8/2

Right Out: 1827.605 $\pm$ 1.009  $\chi^2$ /NDF: 58696.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1827.605 $\pm$ 1.009  $\chi^2$ /NDF: 58696.4/4

# asym\_atl\_dd\_correction\_mean vs slug



Right In: 5065.451+/-4662.520  $\chi^2/\text{NDF}$ : 0.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

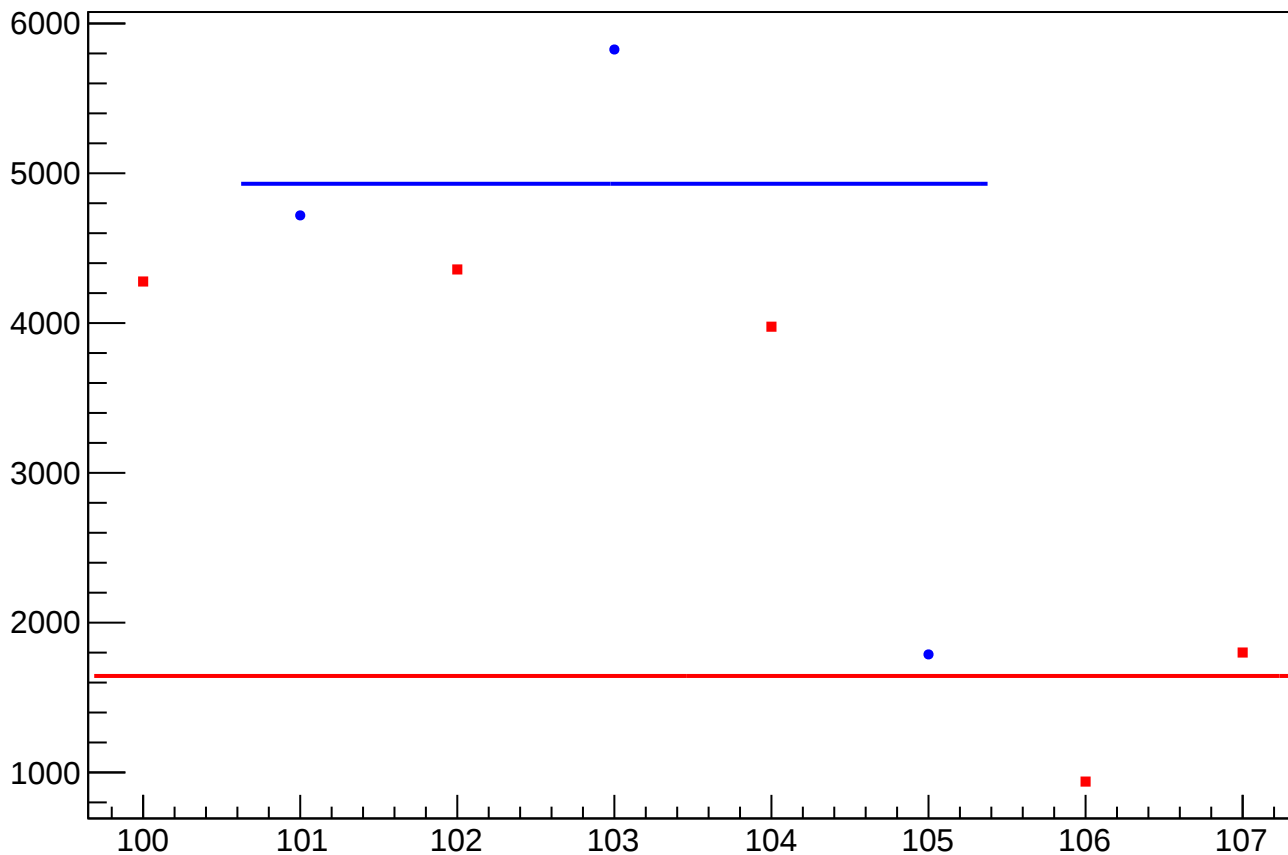
Right Out: 985.165+/-1583.582  $\chi^2/\text{NDF}$ : 4.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5065.451+/-4662.520  $\chi^2/\text{NDF}$ : 0.6/2

985.165+/-1583.582  $\chi^2/\text{NDF}$ : 4.4/4

# asym\_atl\_dd\_correction\_rms vs slug



Right In: 4929.930+/-3.297  $\chi^2/\text{NDF}$ : 87937.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

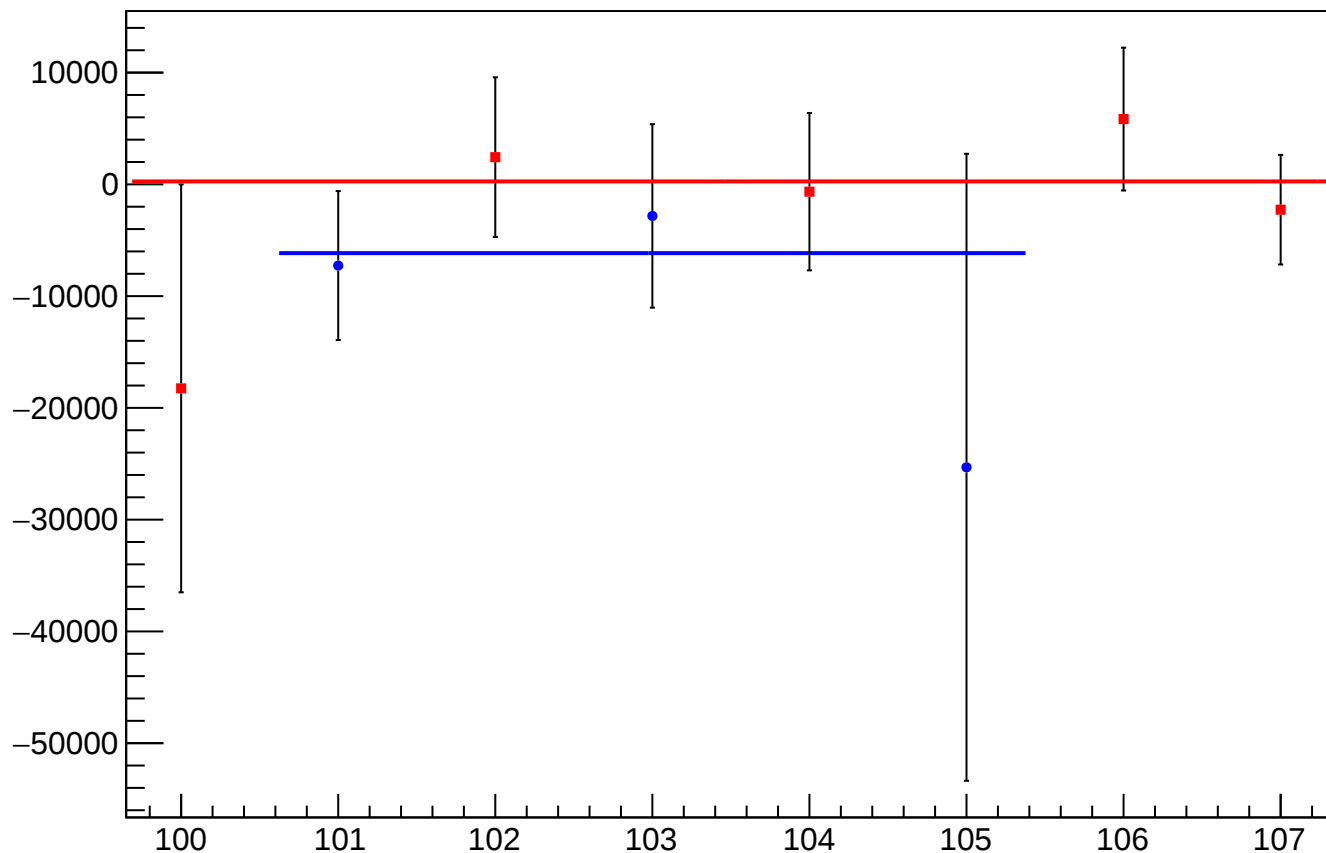
Right Out: 1644.097+/-1.120  $\chi^2/\text{NDF}$ : 978199.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4929.930+/-3.297  $\chi^2/\text{NDF}$ : 87937.0/2

1644.097+/-1.120  $\chi^2/\text{NDF}$ : 978199.2/4

# asym\_atl\_dd\_mean vs slug



Right In: -6152.966 $\pm$ 5089.287  $\chi^2$ /NDF: 0.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

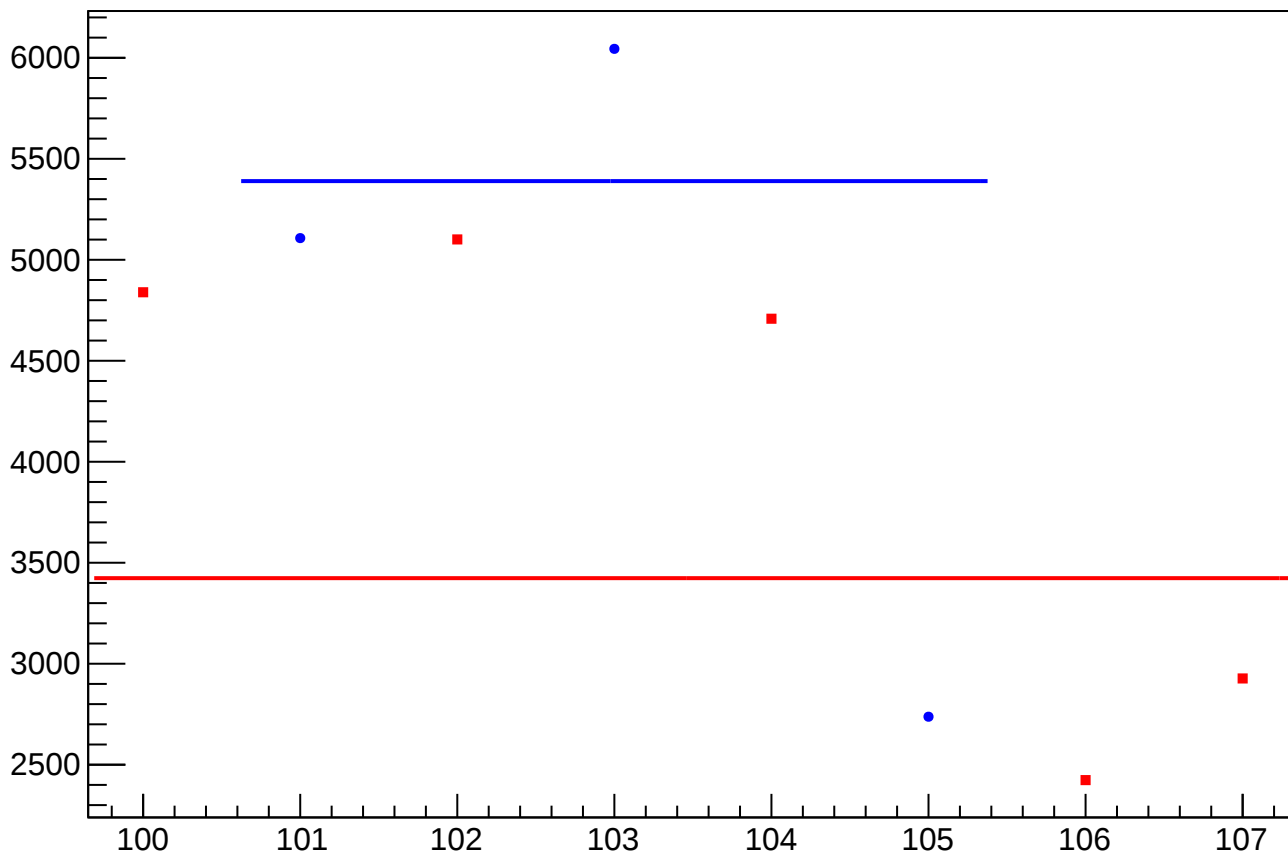
Right Out: 262.565 $\pm$ 3031.259  $\chi^2$ /NDF: 2.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-6152.966 $\pm$ 5089.287  $\chi^2$ /NDF: 0.7/2

262.565 $\pm$ 3031.259  $\chi^2$ /NDF: 2.2/4

# asym\_atl\_dd\_rms vs slug



Right In: 5389.614+/-3.598  $\chi^2/\text{NDF}$ : 34191.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

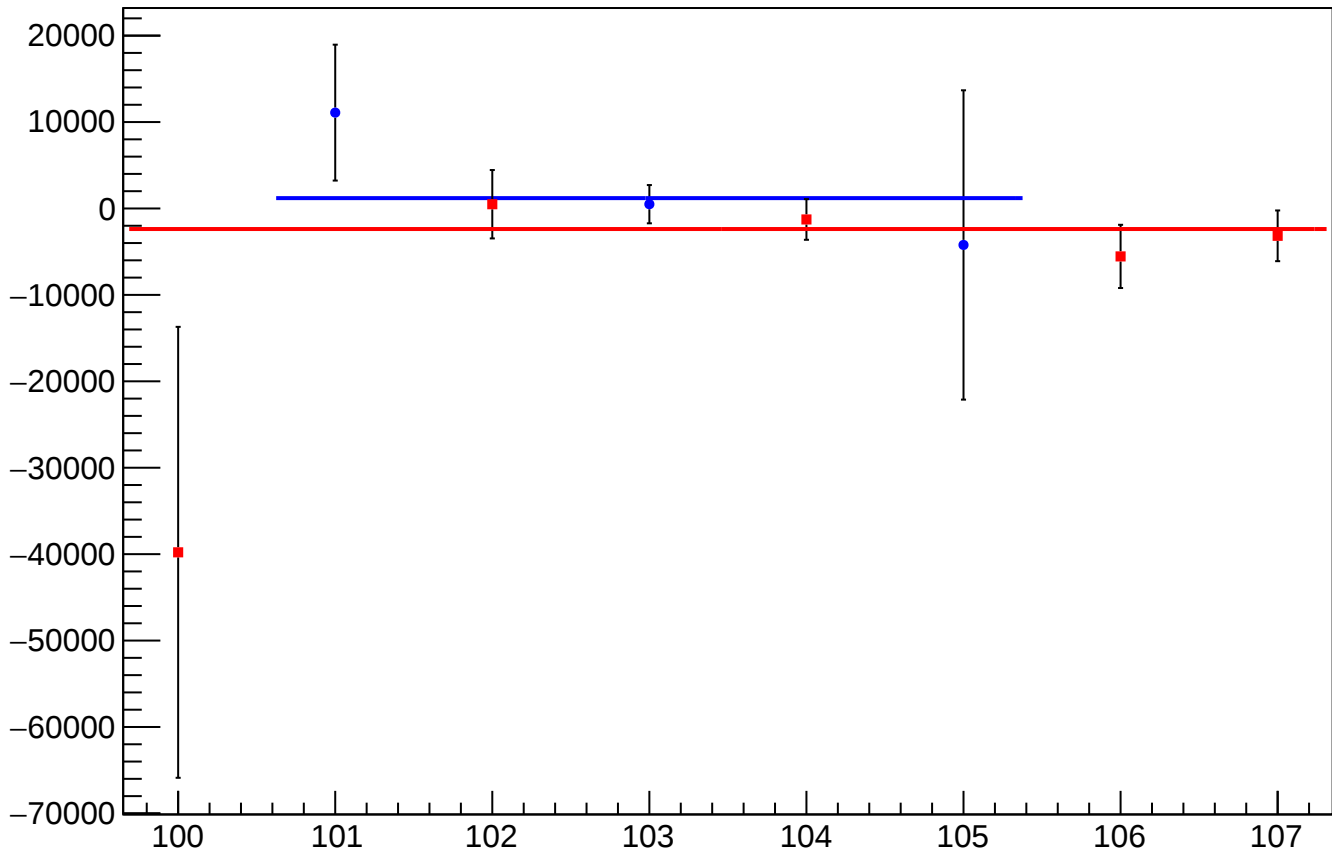
Right Out: 3423.667+/-1.986  $\chi^2/\text{NDF}$ : 294065.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5389.614+/-3.598  $\chi^2/\text{NDF}$ : 34191.3/2

3423.667+/-1.986  $\chi^2/\text{NDF}$ : 294065.4/4

# reg\_asym\_atr\_avg\_mean vs slug



Right In: 1197.807+/-2116.132  $\chi^2/\text{NDF}$ : 1.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

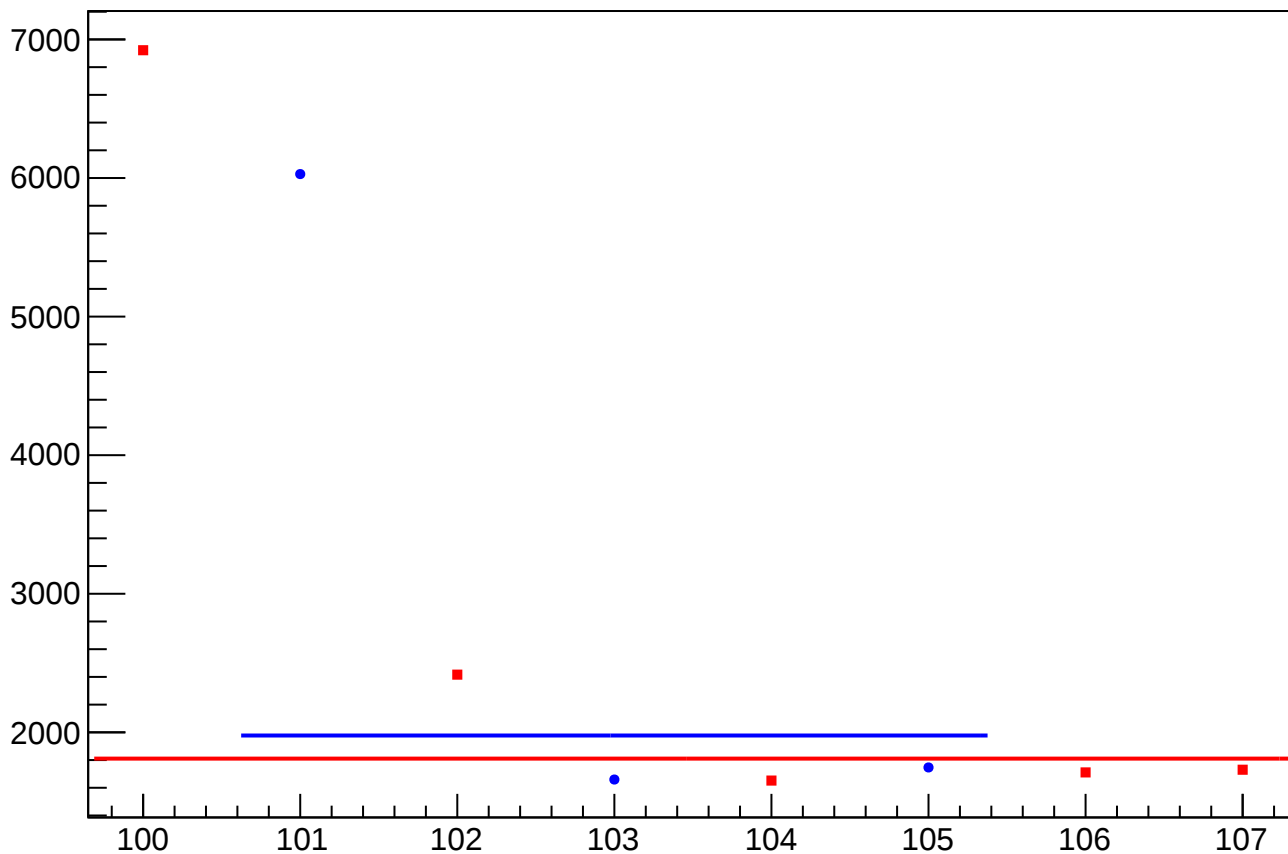
1197.807+/-2116.132  $\chi^2/\text{NDF}$ : 1.8/2

Right Out: -2378.012+/-1513.235  $\chi^2/\text{NDF}$ : 3.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2378.012+/-1513.235  $\chi^2/\text{NDF}$ : 3.6/4

# reg\_asym\_atr\_avg\_rms vs slug



Right In: 1977.139+/-1.496  $\chi^2/\text{NDF}$ : 572455.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

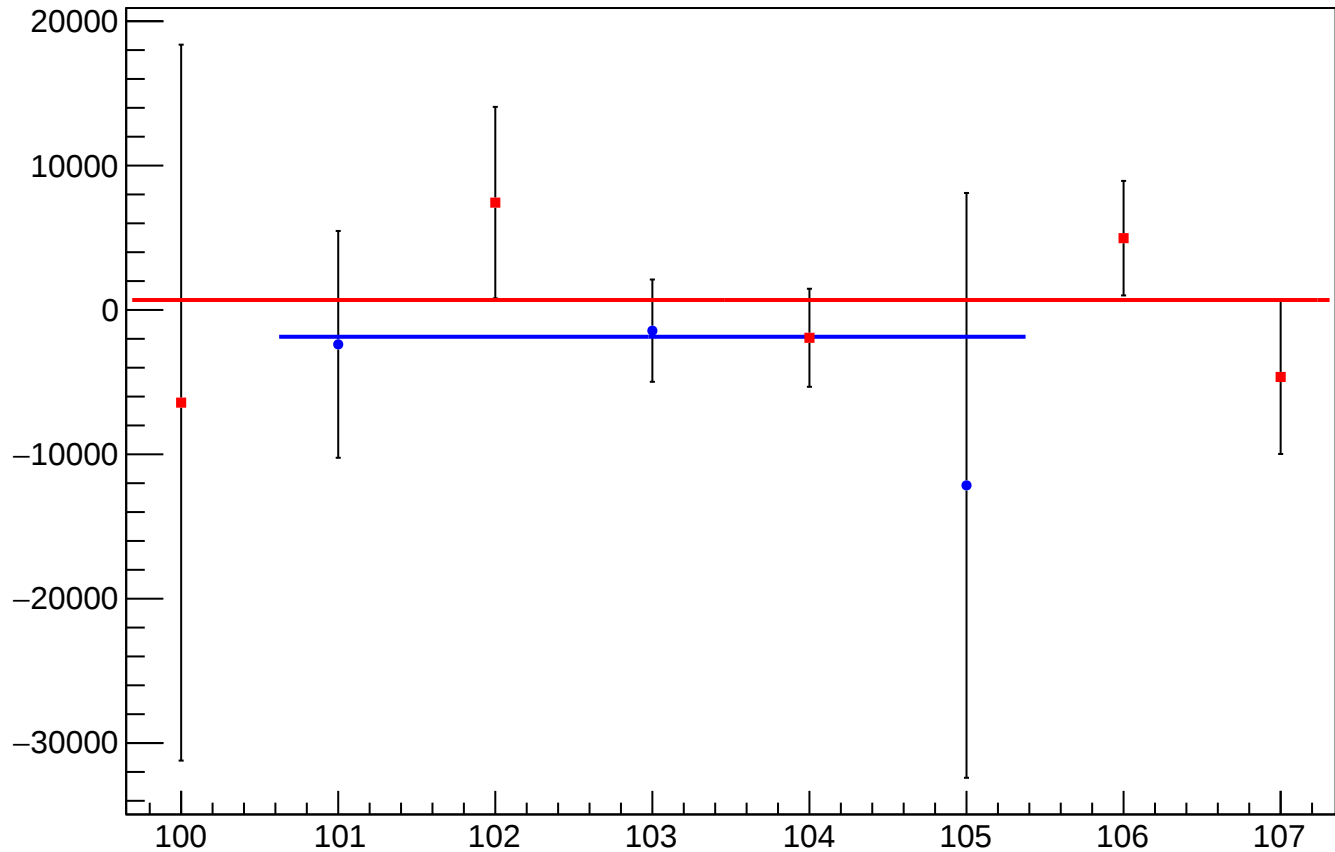
1977.139+/-1.496  $\chi^2/\text{NDF}$ : 572455.6/2

Right Out: 1810.431+/-1.060  $\chi^2/\text{NDF}$ : 135870.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1810.431+/-1.060  $\chi^2/\text{NDF}$ : 135870.4/4

asym\_atr\_avg\_correction\_mean vs slug



Right In: -1857.236 $\pm$ 3189.230  $\chi^2$ /NDF: 0.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

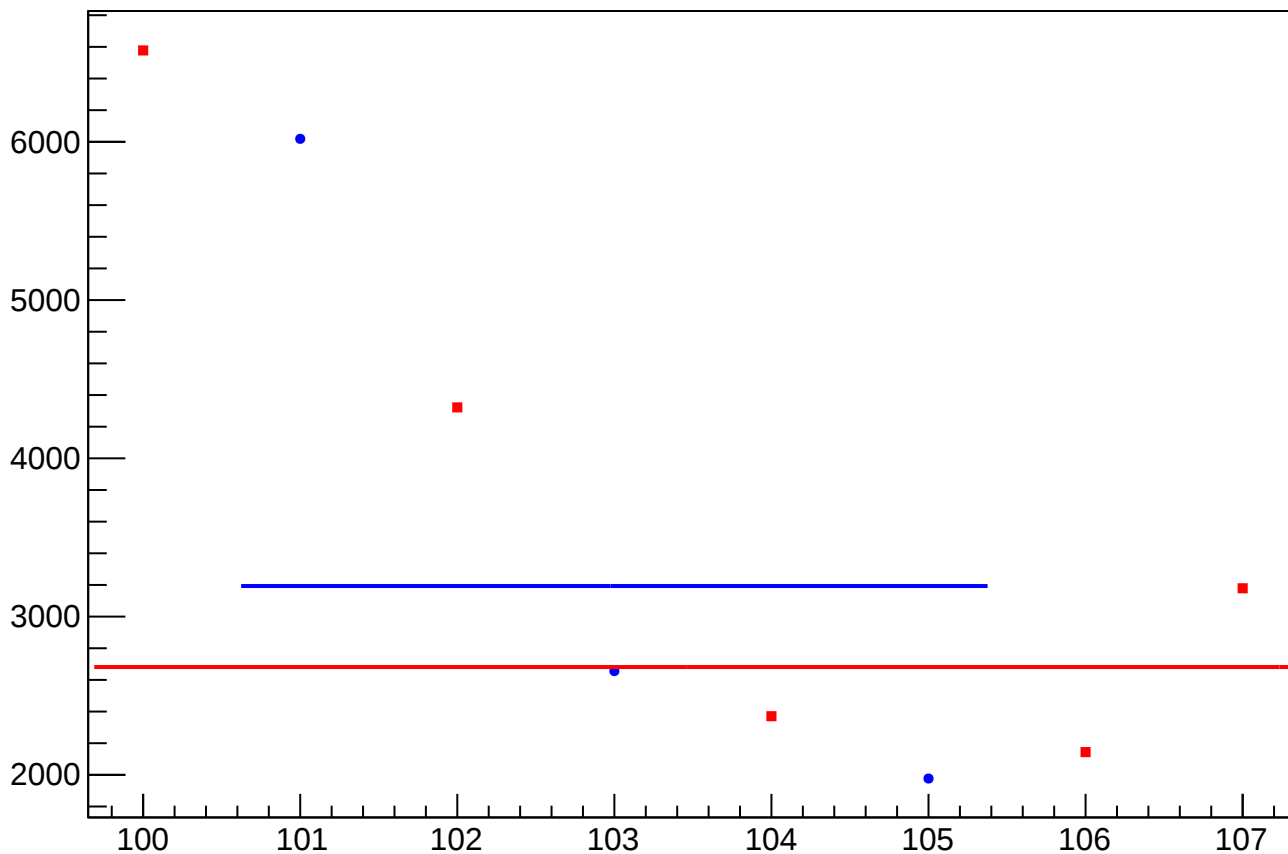
Right Out: 688.698 $\pm$ 2183.411  $\chi^2$ /NDF: 3.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-1857.236 $\pm$ 3189.230  $\chi^2$ /NDF: 0.3/2

688.698 $\pm$ 2183.411  $\chi^2$ /NDF: 3.9/4

asym\_atr\_avg\_correction\_rms vs slug



Right In: 3193.139+/-2.255  $\chi^2/\text{NDF}$ : 312017.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

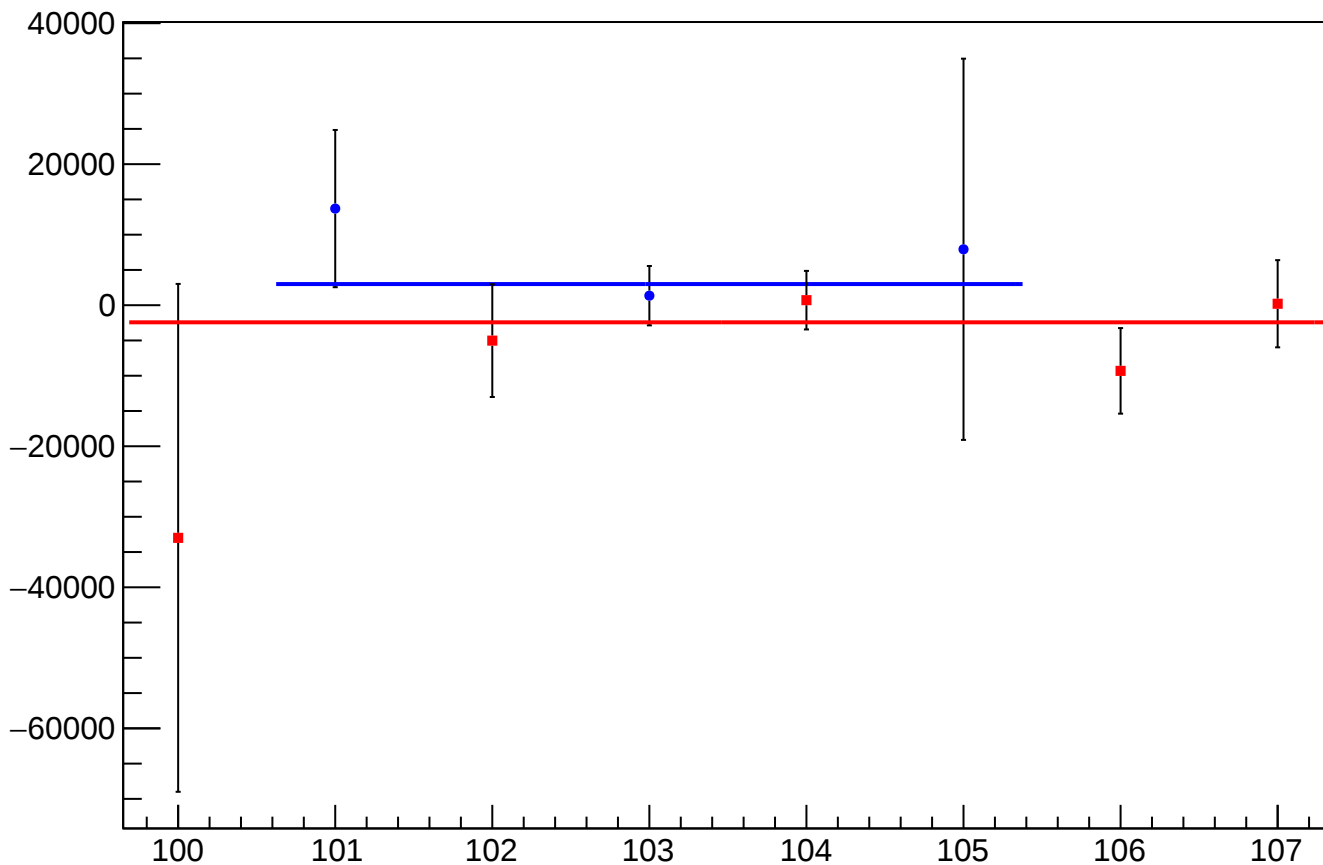
Right Out: 2681.306+/-1.544  $\chi^2/\text{NDF}$ : 242653.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3193.139+/-2.255  $\chi^2/\text{NDF}$ : 312017.8/2

2681.306+/-1.544  $\chi^2/\text{NDF}$ : 242653.1/4

asym\_atr\_avg\_mean vs slug



Right In: 2997.271+/-3896.230  $\chi^2/\text{NDF}$ : 1.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

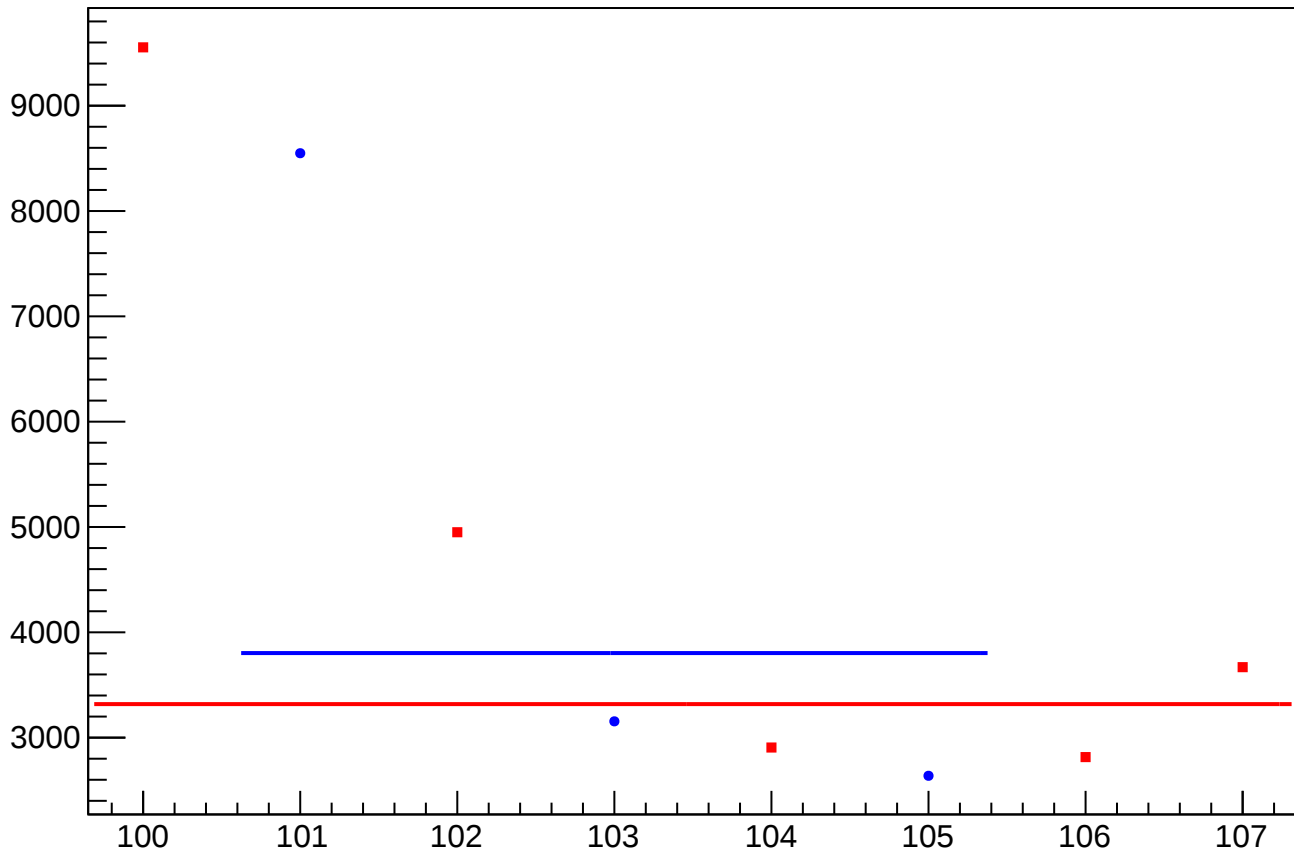
2997.271+/-3896.230  $\chi^2/\text{NDF}$ : 1.1/2

Right Out: -2426.724+/-2797.554  $\chi^2/\text{NDF}$ : 2.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2426.724+/-2797.554  $\chi^2/\text{NDF}$ : 2.9/4

# asym\_atr\_avg\_rms vs slug



Right In: 3802.992+/-2.755  $\chi^2/\text{NDF}$ : 413672.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

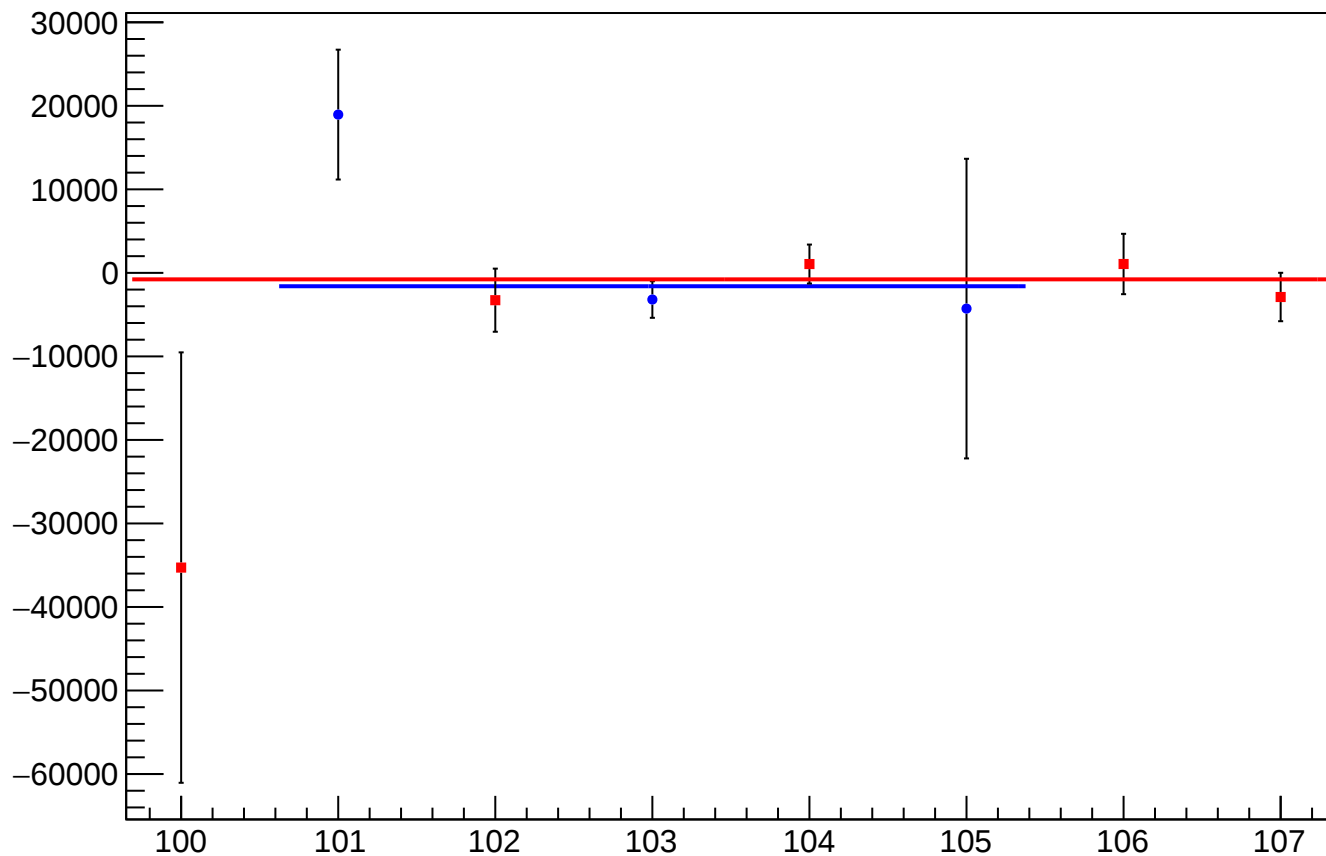
Right Out: 3318.408+/-1.949  $\chi^2/\text{NDF}$ : 185274.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3802.992+/-2.755  $\chi^2/\text{NDF}$ : 413672.4/2

3318.408+/-1.949  $\chi^2/\text{NDF}$ : 185274.8/4

# reg\_asym\_atr\_dd\_mean vs slug



Right In: -1600.473+/-2093.276  $\chi^2/\text{NDF}$ : 7.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

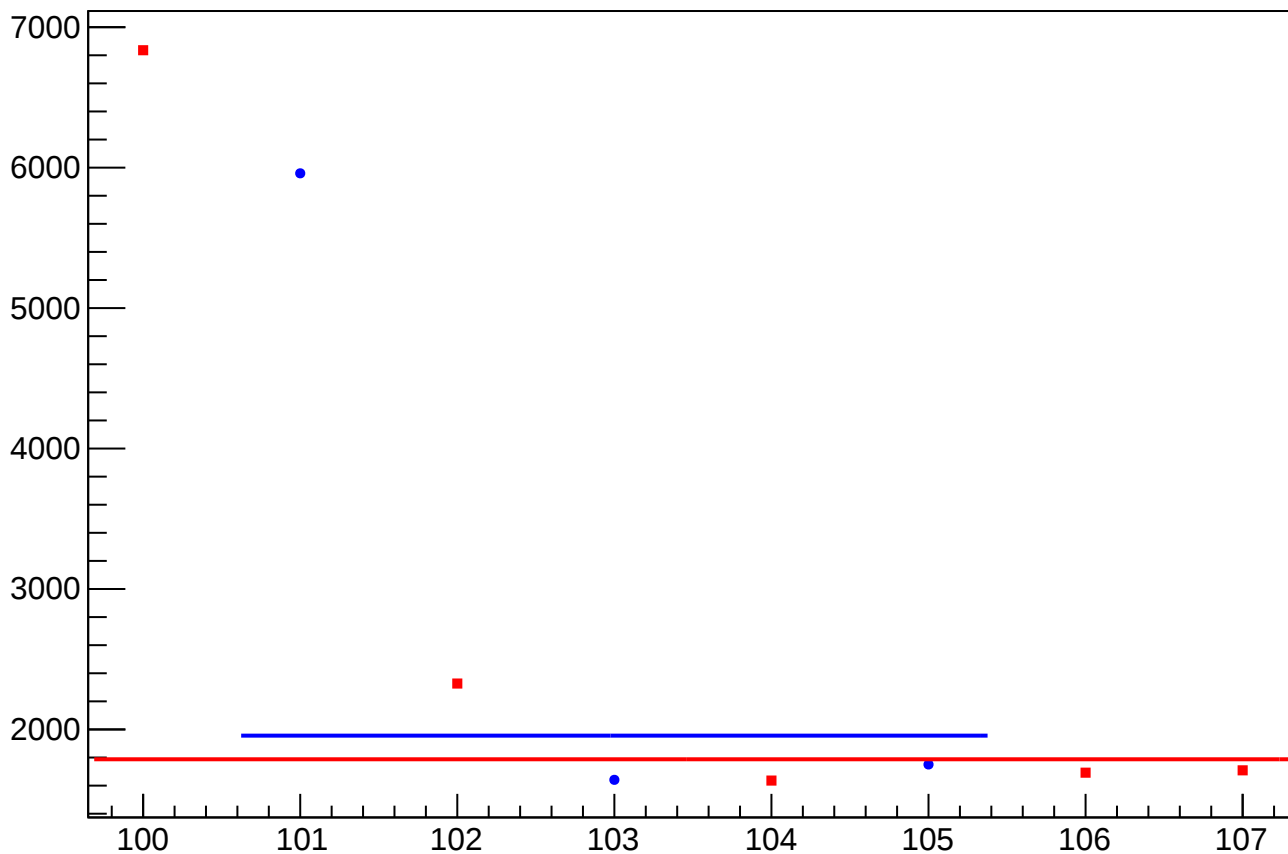
Right Out: -776.284+/-1488.760  $\chi^2/\text{NDF}$ : 3.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1600.473+/-2093.276  $\chi^2/\text{NDF}$ : 7.5/2

-776.284+/-1488.760  $\chi^2/\text{NDF}$ : 3.6/4

# reg\_asym\_atr\_dd\_rms vs slug



Right In: 1955.909+/-1.480  $\chi^2/\text{NDF}$ : 572148.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

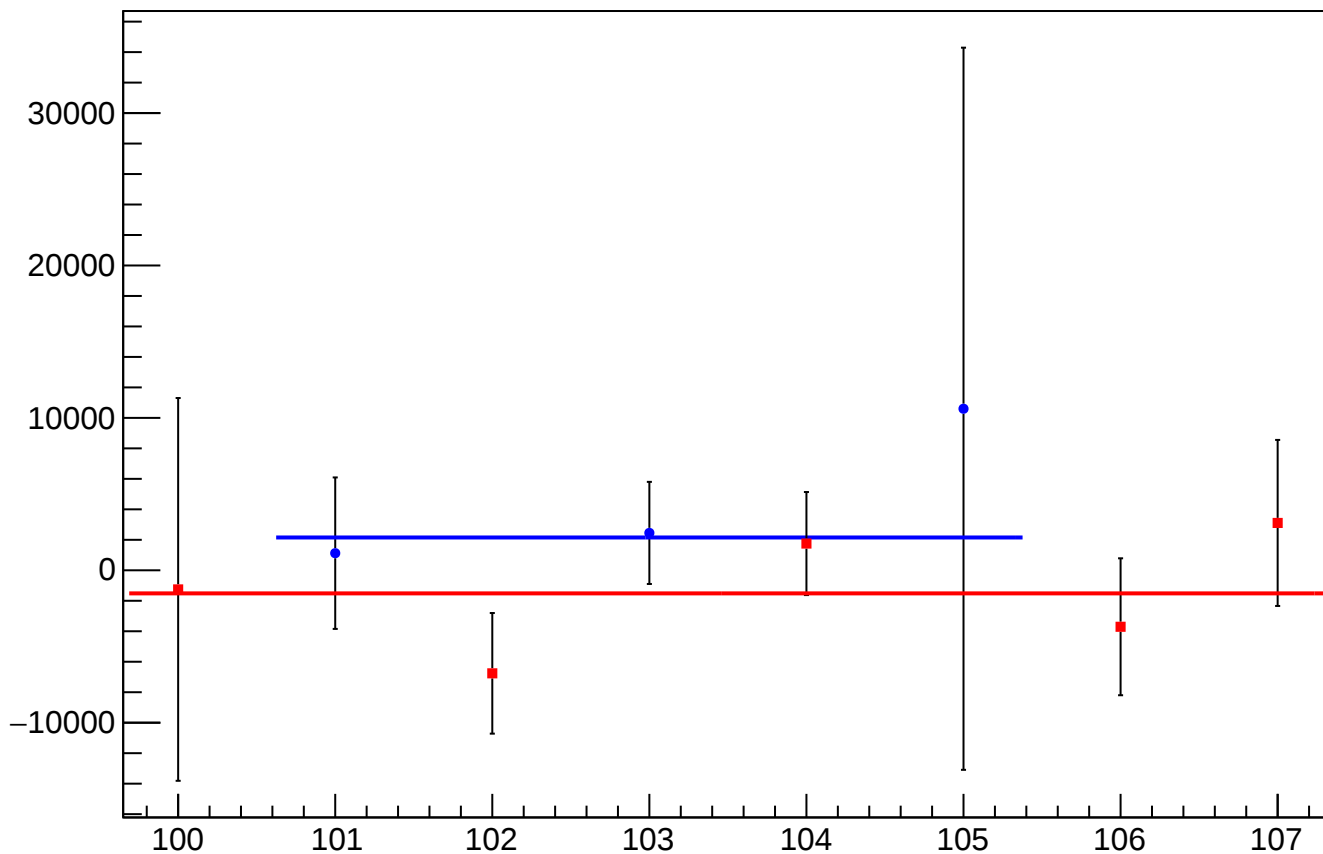
1955.909+/-1.480  $\chi^2/\text{NDF}$ : 572148.4/2

Right Out: 1787.590+/-1.043  $\chi^2/\text{NDF}$ : 129000.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1787.590+/-1.043  $\chi^2/\text{NDF}$ : 129000.2/4

# asym\_atr\_dd\_correction\_mean vs slug



Right In: 2153.107 $\pm$ 2758.903  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

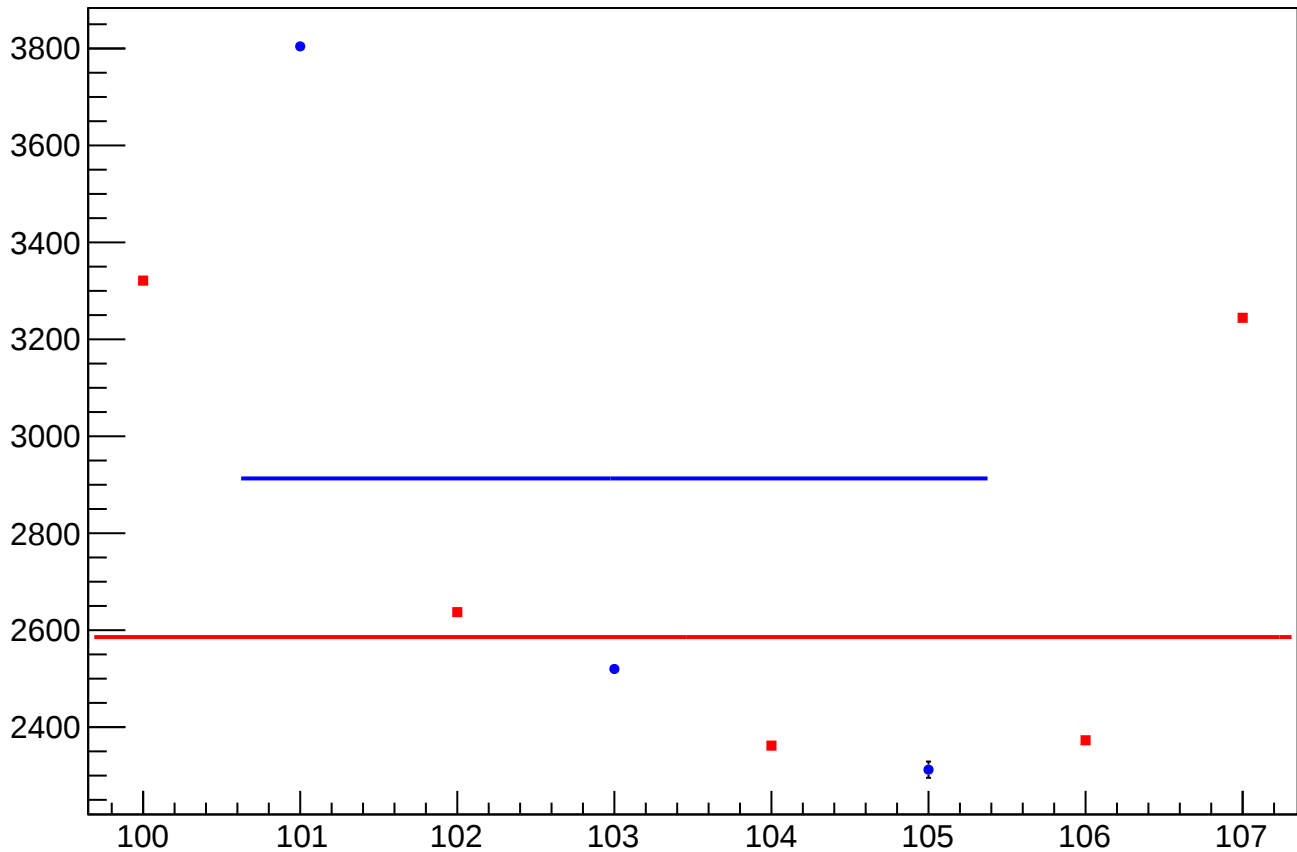
Right Out: -1514.672 $\pm$ 2037.289  $\chi^2$ /NDF: 3.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2153.107 $\pm$ 2758.903  $\chi^2$ /NDF: 0.2/2

-1514.672 $\pm$ 2037.289  $\chi^2$ /NDF: 3.7/4

# asym\_atr\_dd\_correction\_rms vs slug



Right In: 2913.029+/-1.951  $\chi^2$ /NDF: 93163.3/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

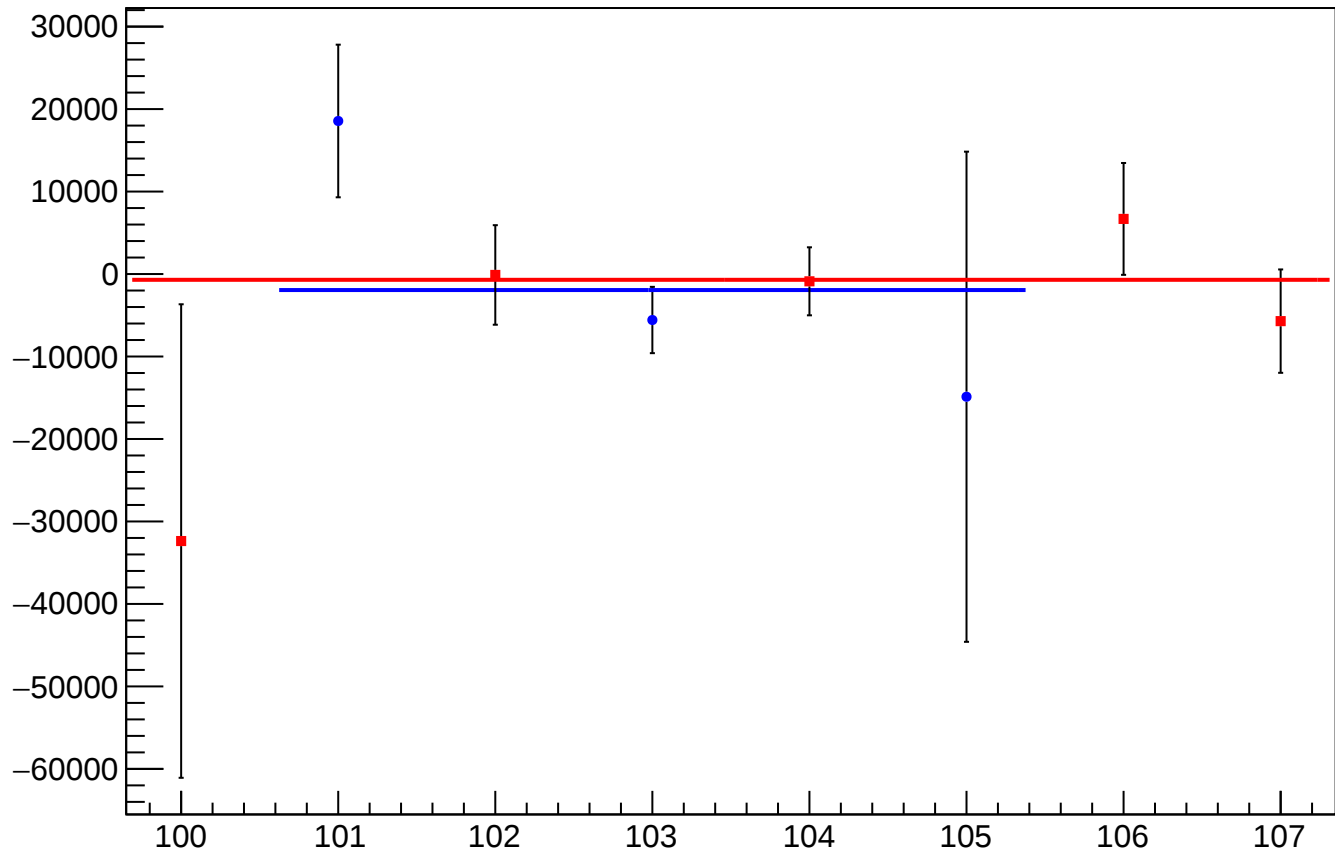
2913.029+/-1.951  $\chi^2$ /NDF: 93163.3/2

Right Out: 2585.772+/-1.441  $\chi^2$ /NDF: 49705.4/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2585.772+/-1.441  $\chi^2$ /NDF: 49705.4/4

# asym\_atr\_dd\_mean vs slug



Right In: -1941.722+/-3659.012  $\chi^2/\text{NDF}$ : 5.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

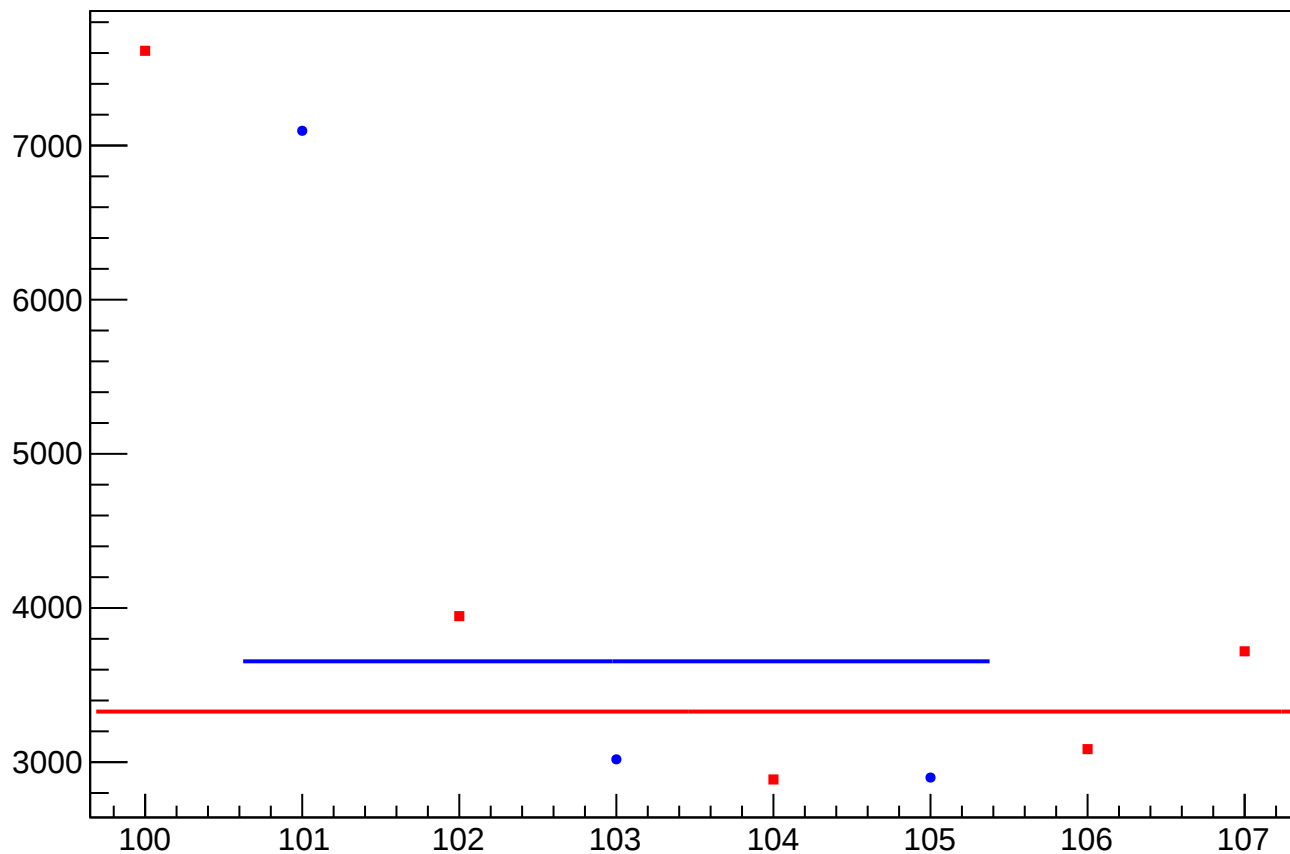
-1941.722+/-3659.012  $\chi^2/\text{NDF}$ : 5.9/2

Right Out: -700.206+/-2724.791  $\chi^2/\text{NDF}$ : 3.1/4

-700.206+/-2724.791  $\chi^2/\text{NDF}$ : 3.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_rms vs slug



Right In: 3654.135+/-2.587  $\chi^2/\text{NDF}$ : 327955.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

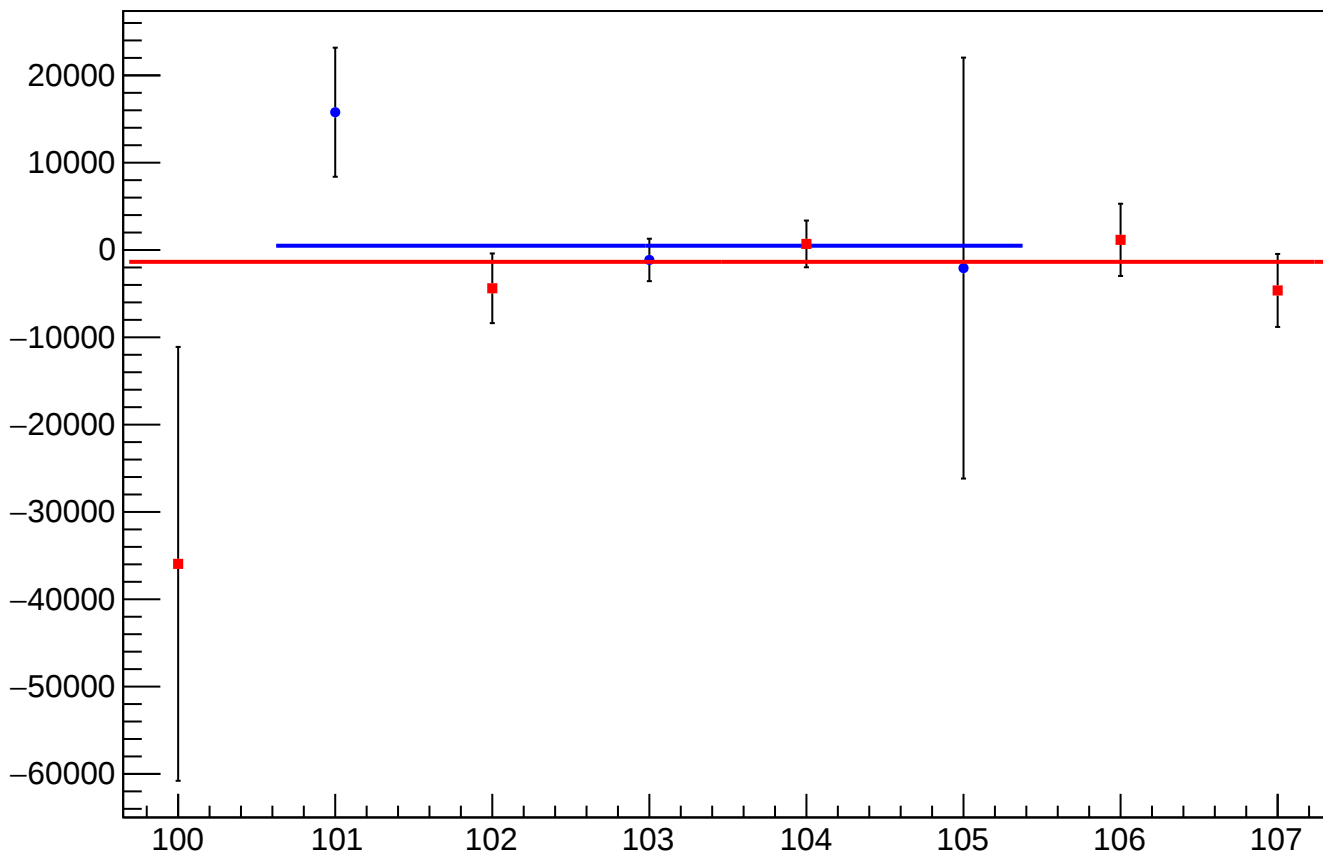
Right Out: 3328.194+/-1.899  $\chi^2/\text{NDF}$ : 99285.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3654.135+/-2.587  $\chi^2/\text{NDF}$ : 327955.6/2

3328.194+/-1.899  $\chi^2/\text{NDF}$ : 99285.6/4

# reg\_asym\_at1\_avg\_mean vs slug



Right In: 489.464+/-2298.773  $\chi^2/\text{NDF}$ : 4.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

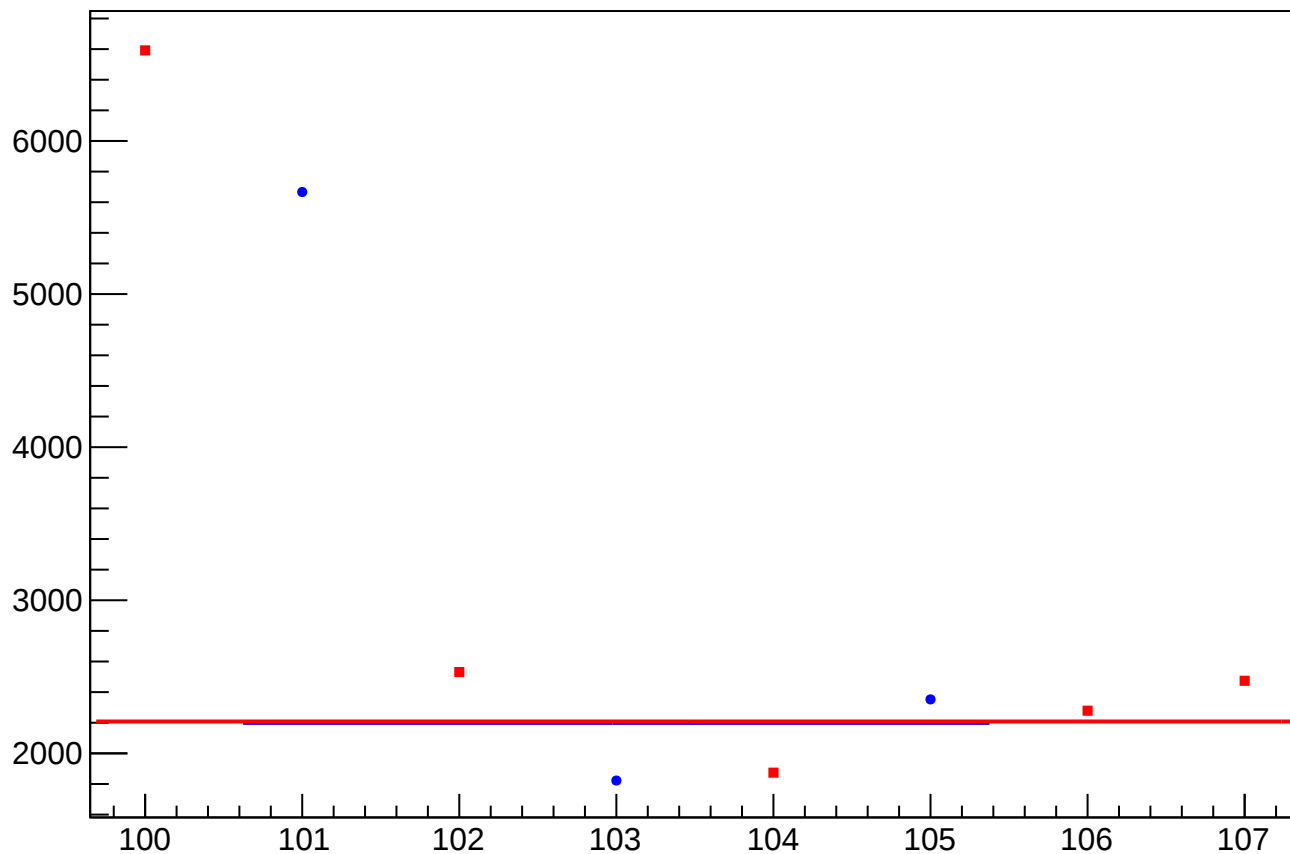
Right Out: -1355.386+/-1768.404  $\chi^2/\text{NDF}$ : 4.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

489.464+/-2298.773  $\chi^2/\text{NDF}$ : 4.7/2

-1355.386+/-1768.404  $\chi^2/\text{NDF}$ : 4.1/4

# reg\_asym\_at1\_avg\_rms vs slug



Right In: 2199.124+/-1.625  $\chi^2/\text{NDF}$ : 488133.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

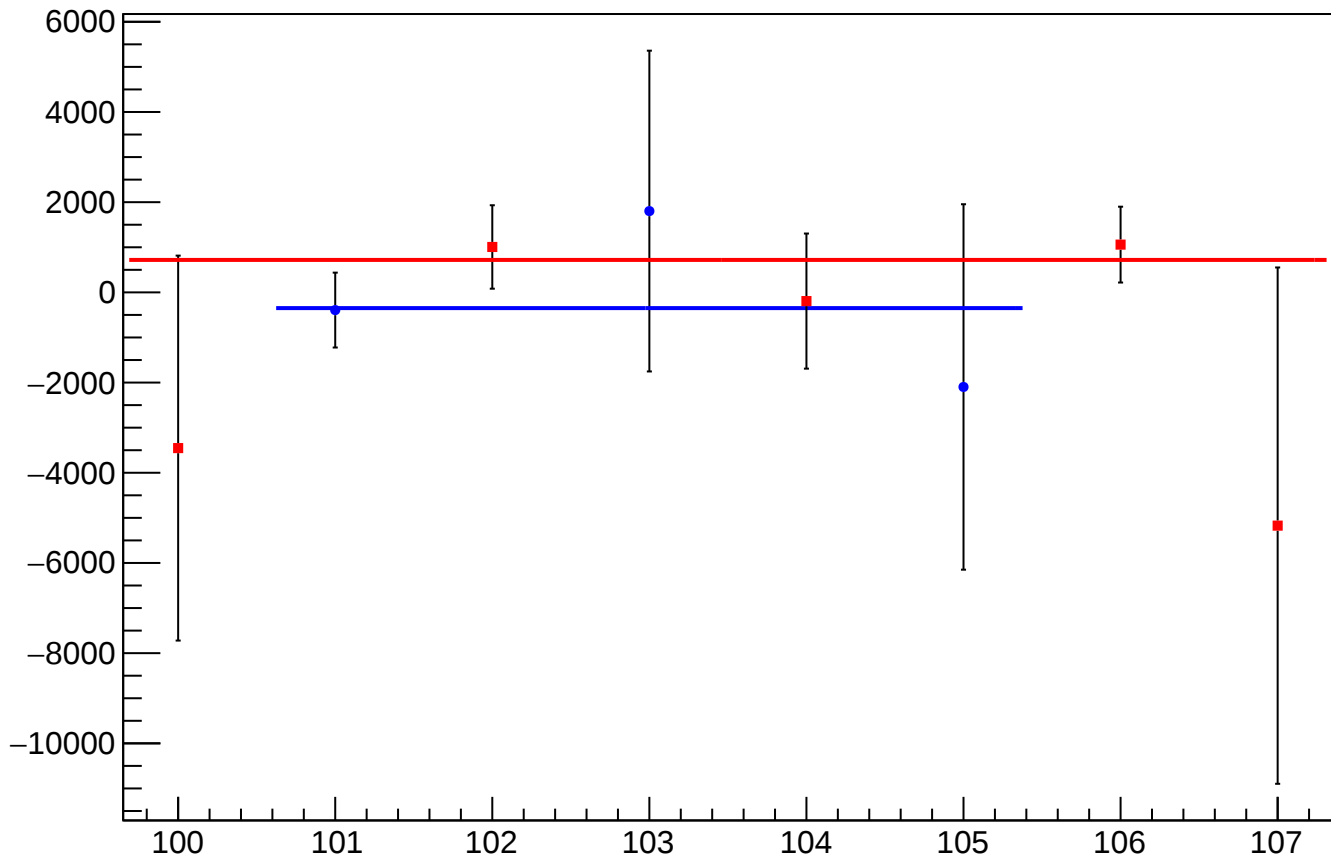
Right Out: 2208.270+/-1.250  $\chi^2/\text{NDF}$ : 115280.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2199.124+/-1.625  $\chi^2/\text{NDF}$ : 488133.5/2

2208.270+/-1.250  $\chi^2/\text{NDF}$ : 115280.4/4

# asym\_at1\_avg\_correction\_mean vs slug



Right In: -348.742+/-792.872  $\chi^2$ /NDF: 0.6/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

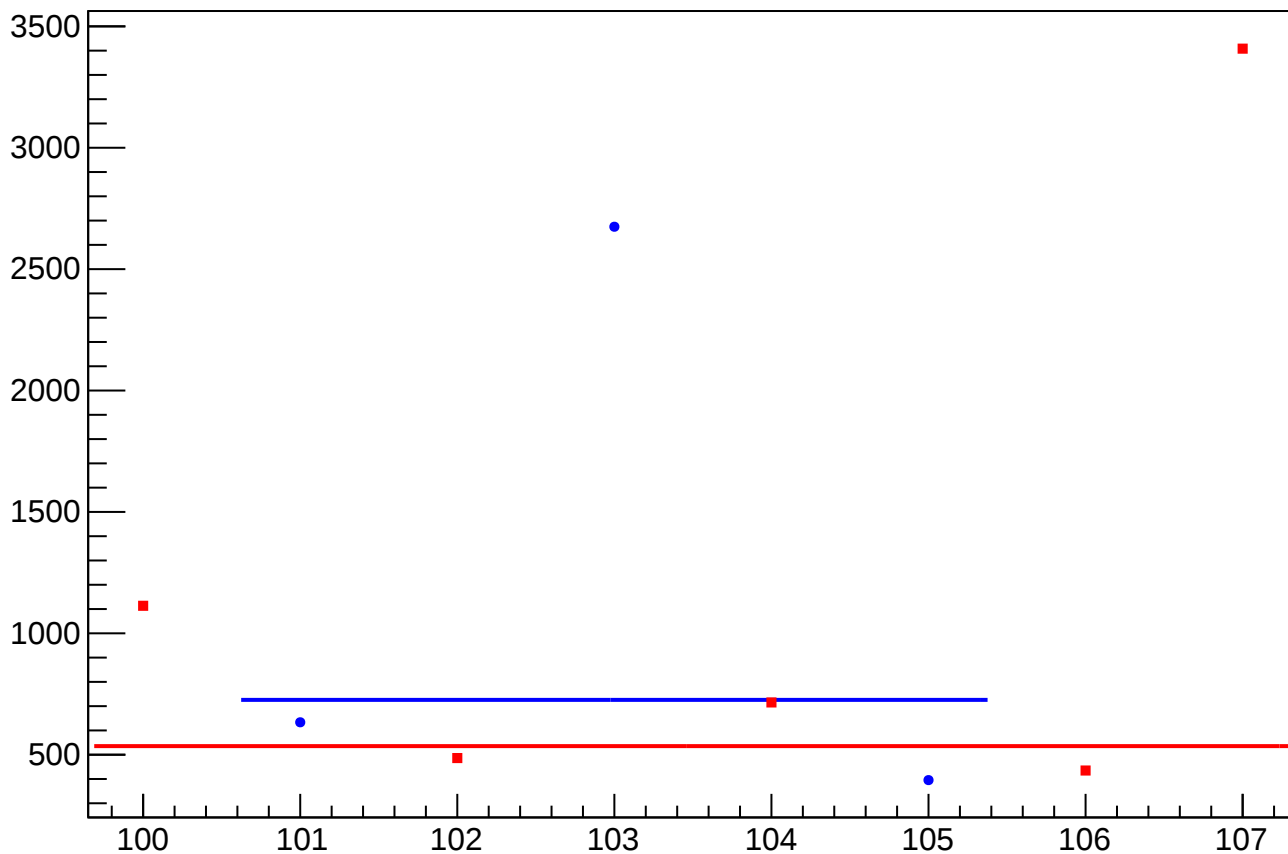
Right Out: 719.584+/-566.730  $\chi^2$ /NDF: 2.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-348.742+/-792.872  $\chi^2$ /NDF: 0.6/2

719.584+/-566.730  $\chi^2$ /NDF: 2.6/4

# asym\_at1\_avg\_correction\_rms vs slug



Right In: 725.866+/-0.561  $\chi^2/\text{NDF}$ : 638503.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

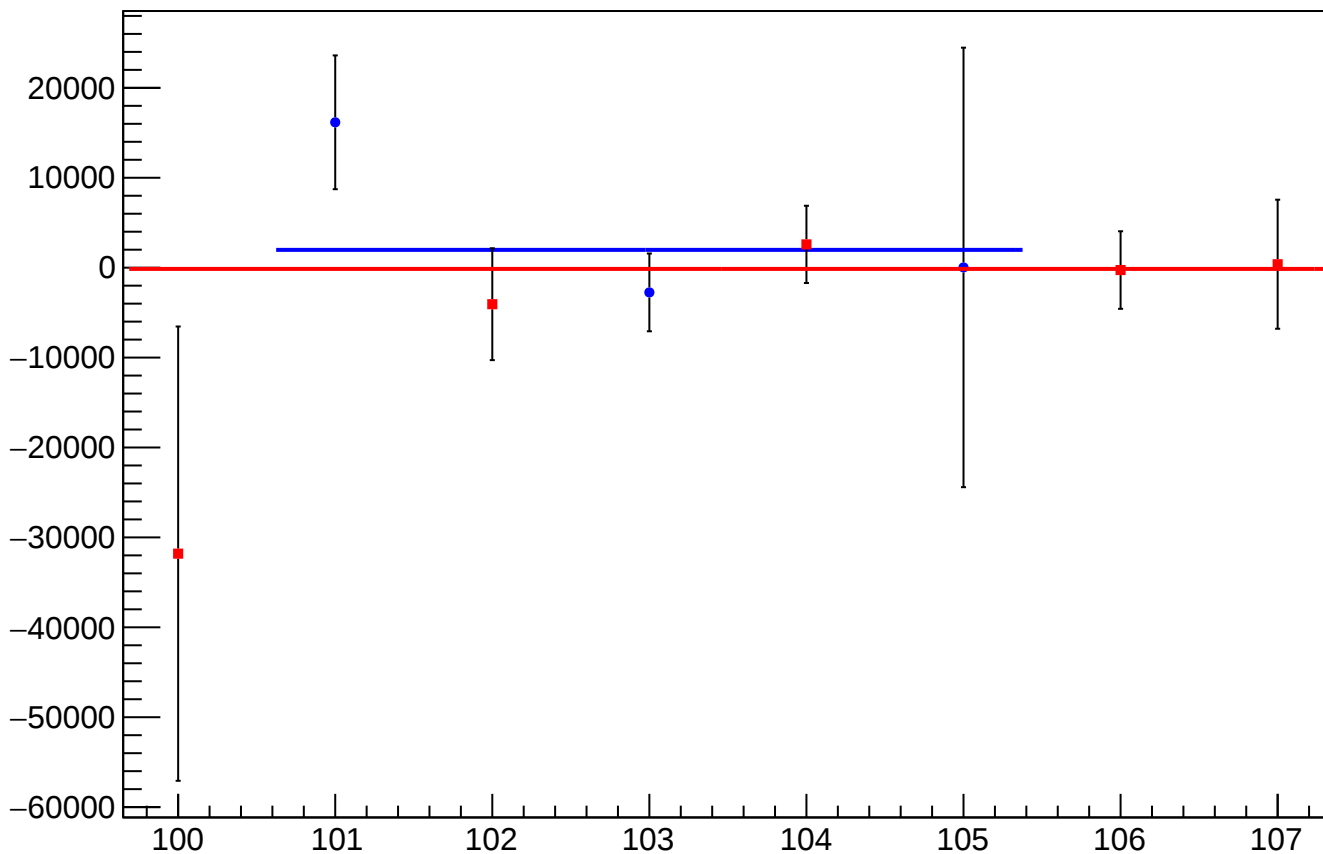
Right Out: 535.403+/-0.401  $\chi^2/\text{NDF}$ : 603408.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

725.866+/-0.561  $\chi^2/\text{NDF}$ : 638503.5/2

535.403+/-0.401  $\chi^2/\text{NDF}$ : 603408.9/4

# asym\_at1\_avg\_mean vs slug



Right In: 1980.159+/-3695.907  $\chi^2$ /NDF: 4.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

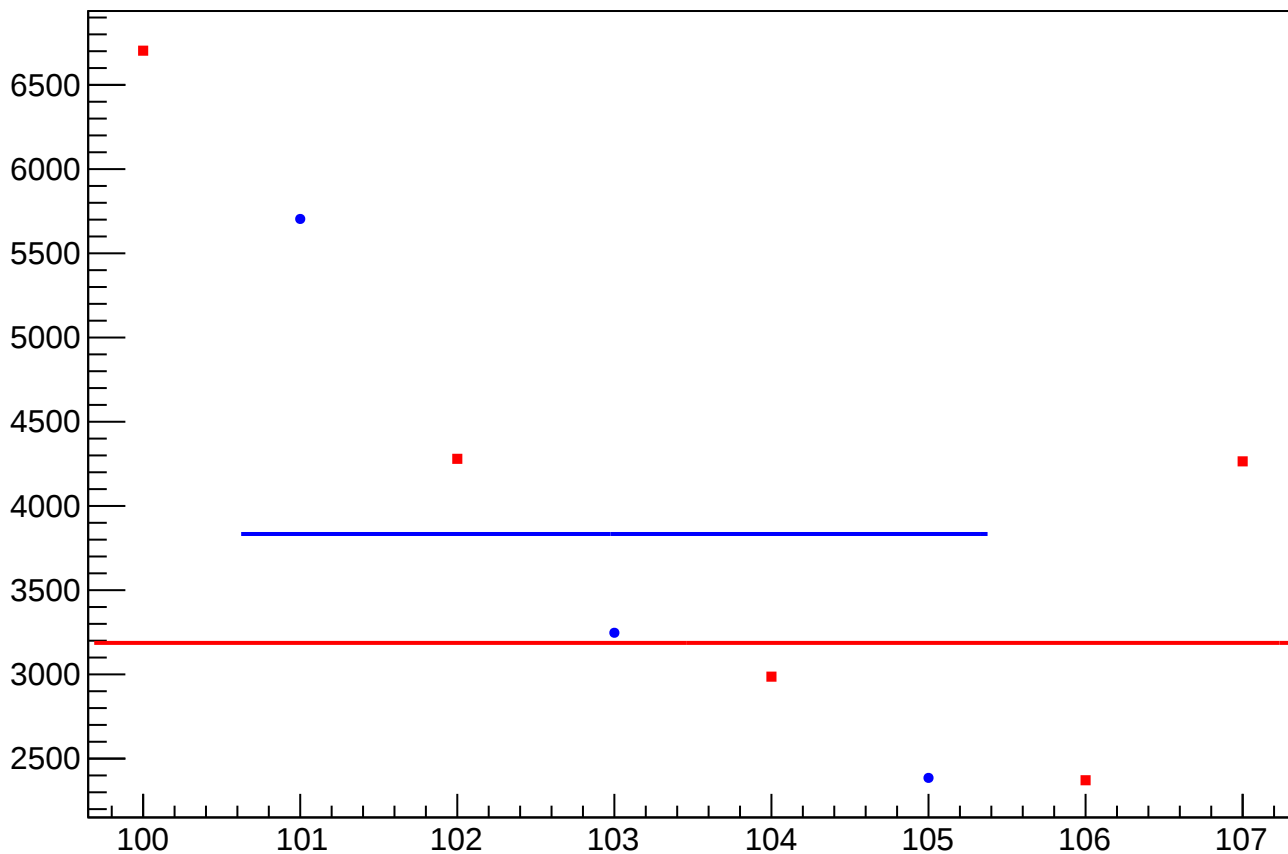
Right Out: -138.266+/-2542.034  $\chi^2$ /NDF: 2.4/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1980.159+/-3695.907  $\chi^2$ /NDF: 4.8/2

-138.266+/-2542.034  $\chi^2$ /NDF: 2.4/4

# asym\_at1\_avg\_rms vs slug



Right In: 3833.582 $\pm$ 2.613  $\chi^2$ /NDF: 170194.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

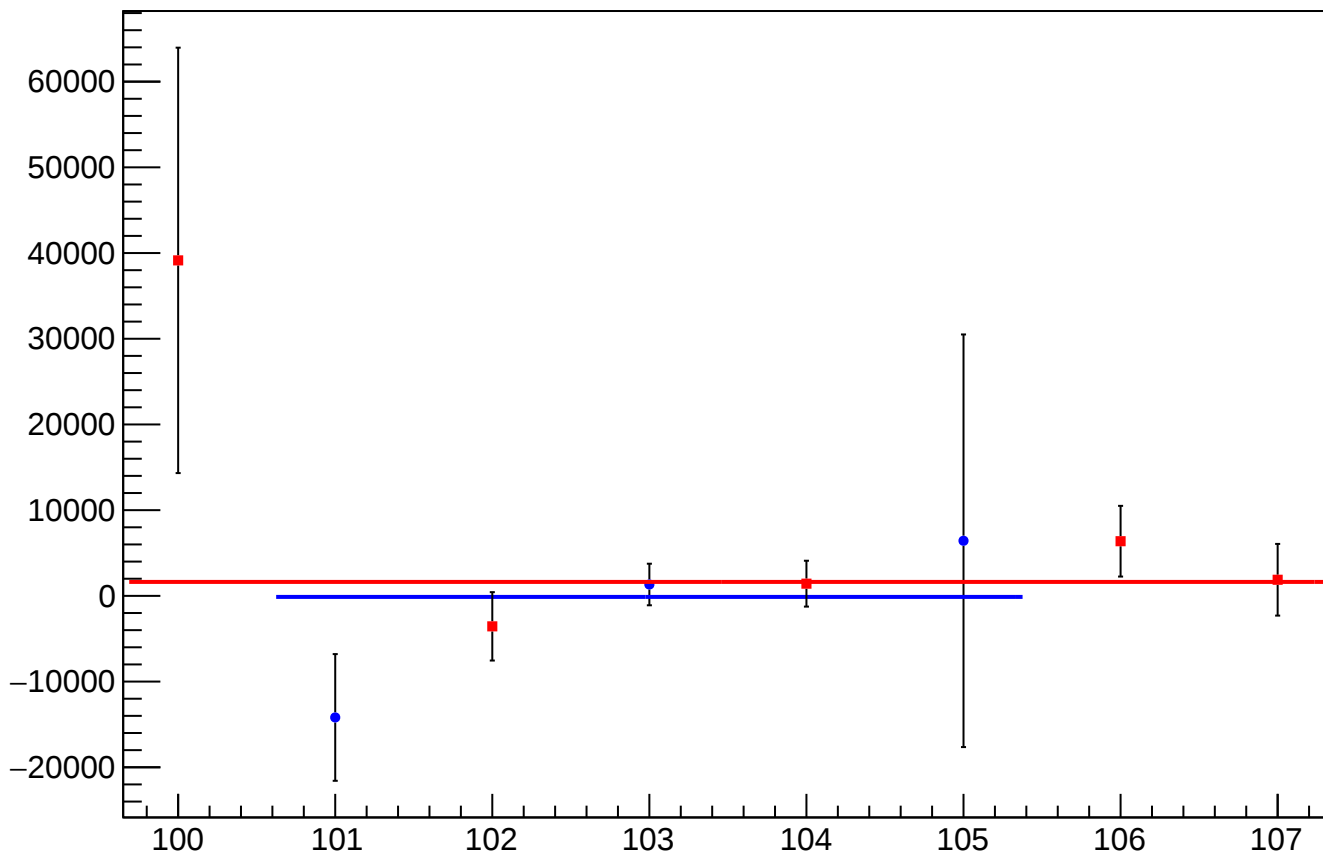
Right Out: 3186.957 $\pm$ 1.797  $\chi^2$ /NDF: 221482.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3833.582 $\pm$ 2.613  $\chi^2$ /NDF: 170194.4/2

3186.957 $\pm$ 1.797  $\chi^2$ /NDF: 221482.0/4

# reg\_asym\_at1\_dd\_mean vs slug



Right In: -121.405+/-2294.056  $\chi^2/\text{NDF}$ : 4.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

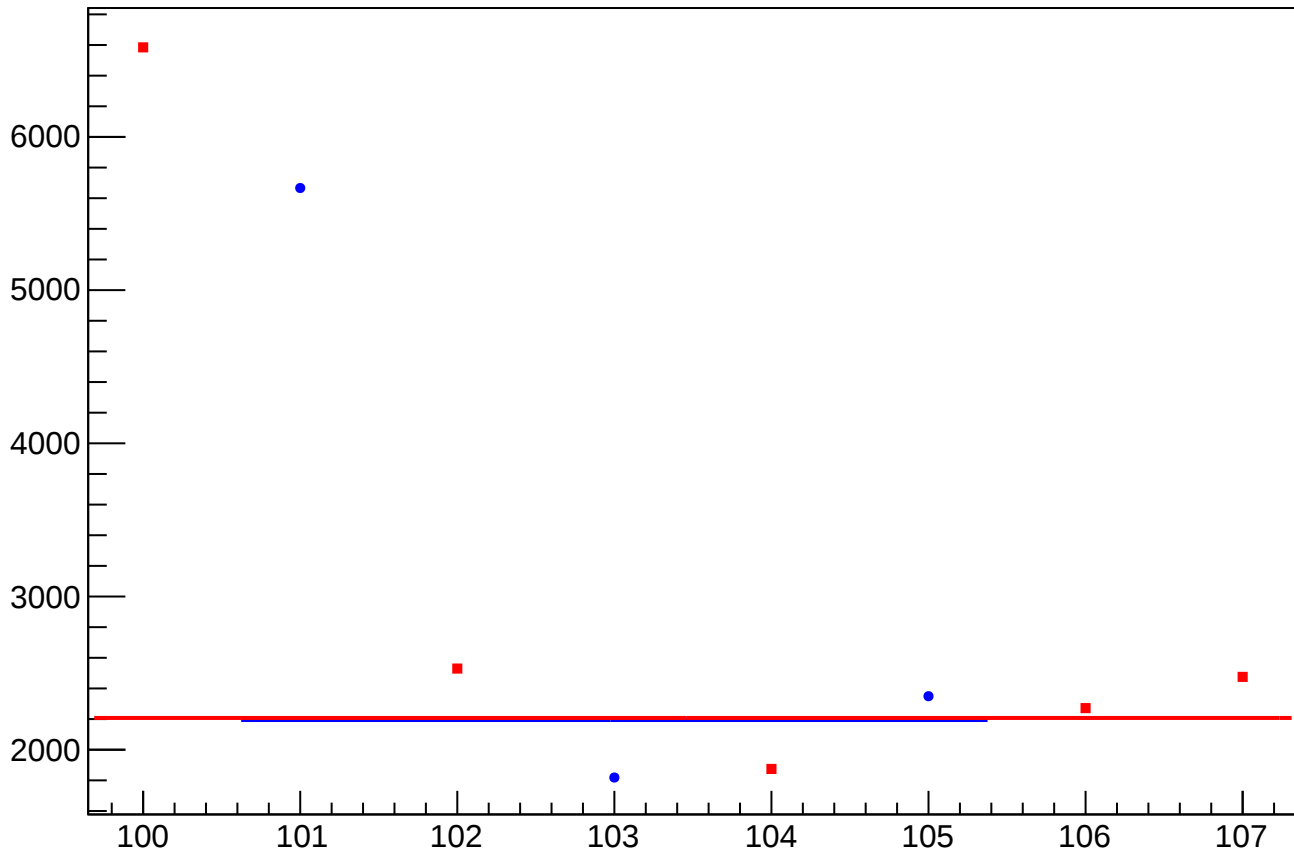
Right Out: 1628.009+/-1767.677  $\chi^2/\text{NDF}$ : 5.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-121.405+/-2294.056  $\chi^2/\text{NDF}$ : 4.1/2

1628.009+/-1767.677  $\chi^2/\text{NDF}$ : 5.3/4

# reg\_asym\_at1\_dd\_rms vs slug



Right In: 2193.901+/-1.622  $\chi^2/\text{NDF}$ : 489434.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

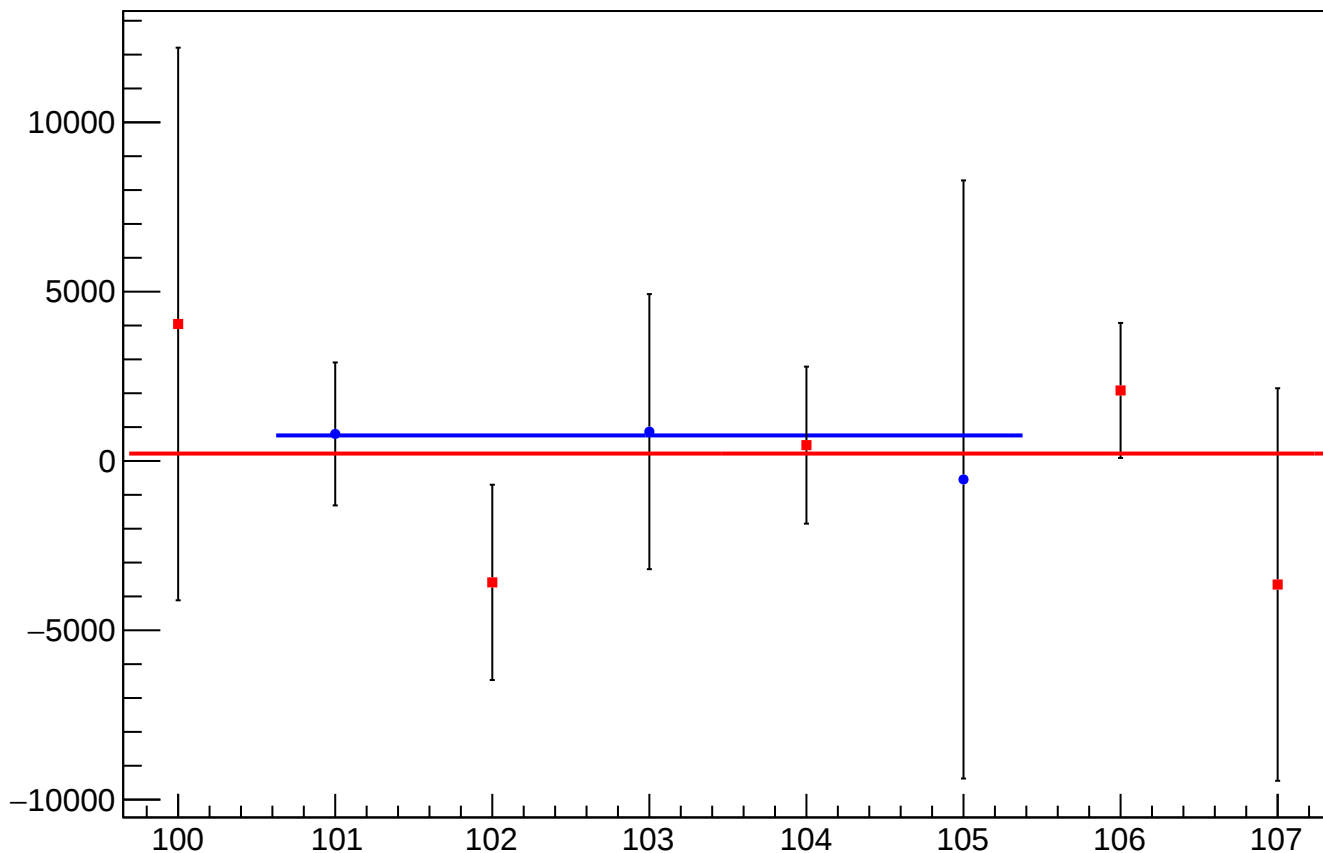
2193.901+/-1.622  $\chi^2/\text{NDF}$ : 489434.6/2

Right Out: 2207.348+/-1.250  $\chi^2/\text{NDF}$ : 114912.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2207.348+/-1.250  $\chi^2/\text{NDF}$ : 114912.9/4

# asym\_at1\_dd\_correction\_mean vs slug



Right In: 754.181 $\pm$ 1832.168  $\chi^2$ /NDF: 0.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

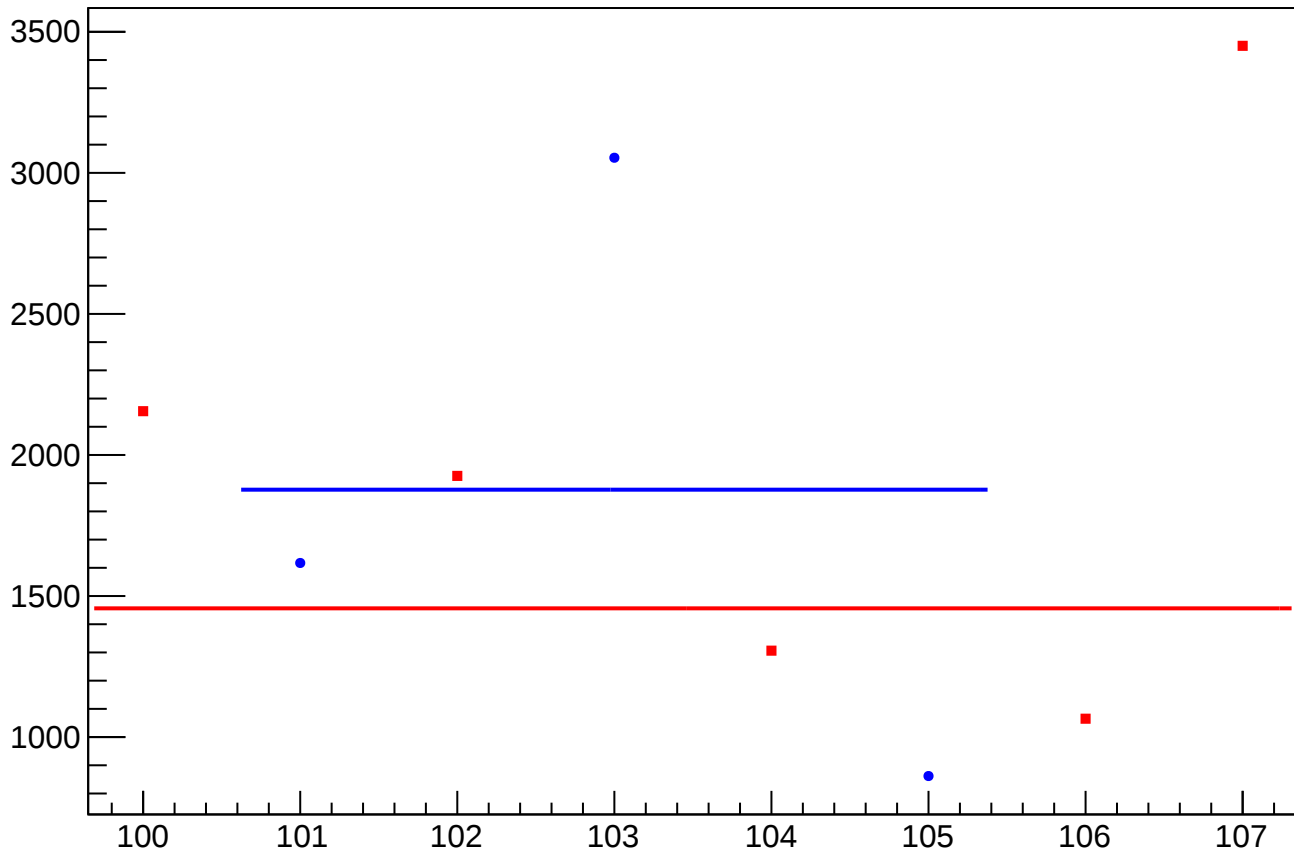
Right Out: 218.787 $\pm$ 1288.097  $\chi^2$ /NDF: 3.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

754.181 $\pm$ 1832.168  $\chi^2$ /NDF: 0.0/2

218.787 $\pm$ 1288.097  $\chi^2$ /NDF: 3.3/4

# asym\_at1\_dd\_correction\_rms vs slug



Right In: 1876.981+/-1.296  $\chi^2/\text{NDF}$ : 224564.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

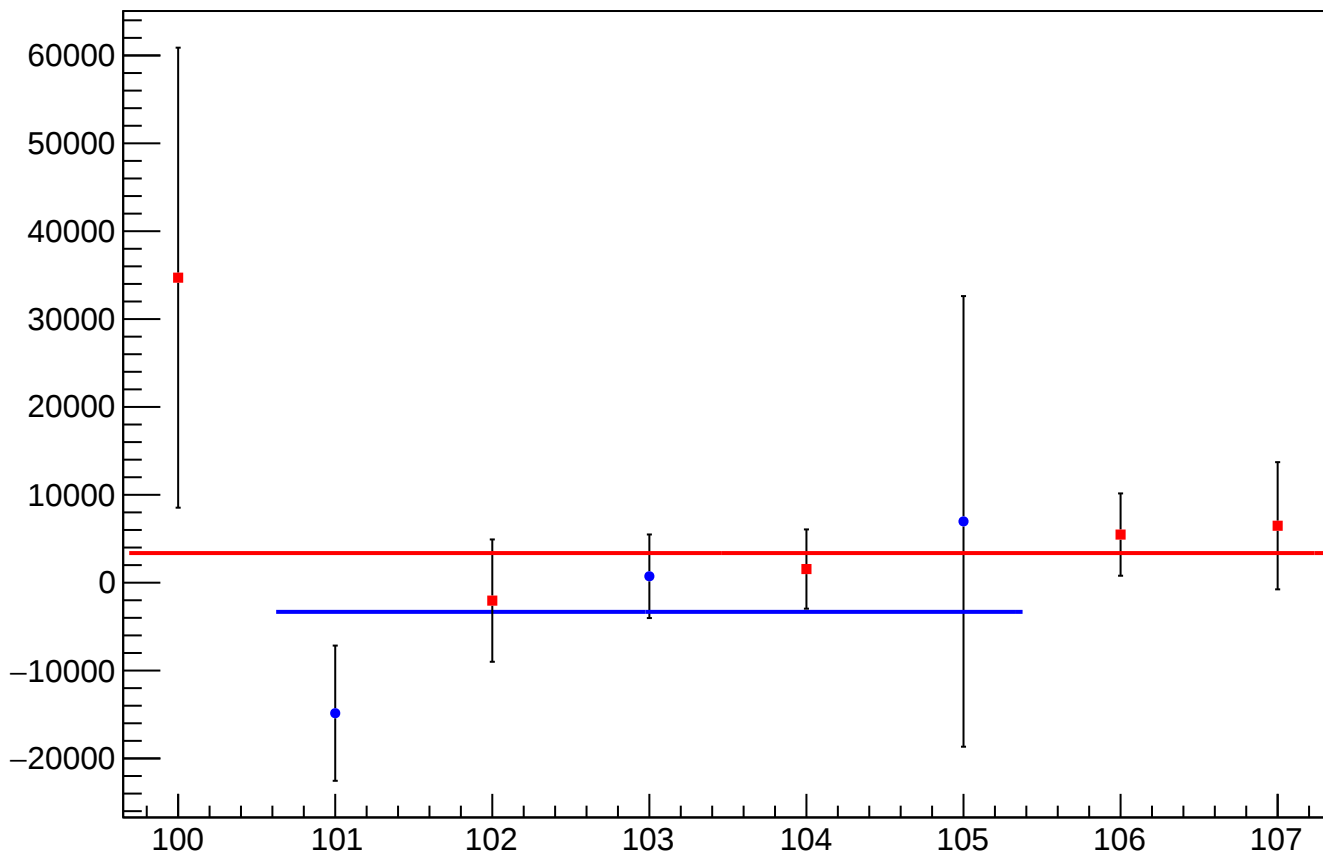
1876.981+/-1.296  $\chi^2/\text{NDF}$ : 224564.2/2

Right Out: 1456.335+/-0.911  $\chi^2/\text{NDF}$ : 389780.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1456.335+/-0.911  $\chi^2/\text{NDF}$ : 389780.4/4

# asym\_at1\_dd\_mean vs slug



Right In: -3320.119+/-3995.595  $\chi^2$ /NDF: 3.1/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

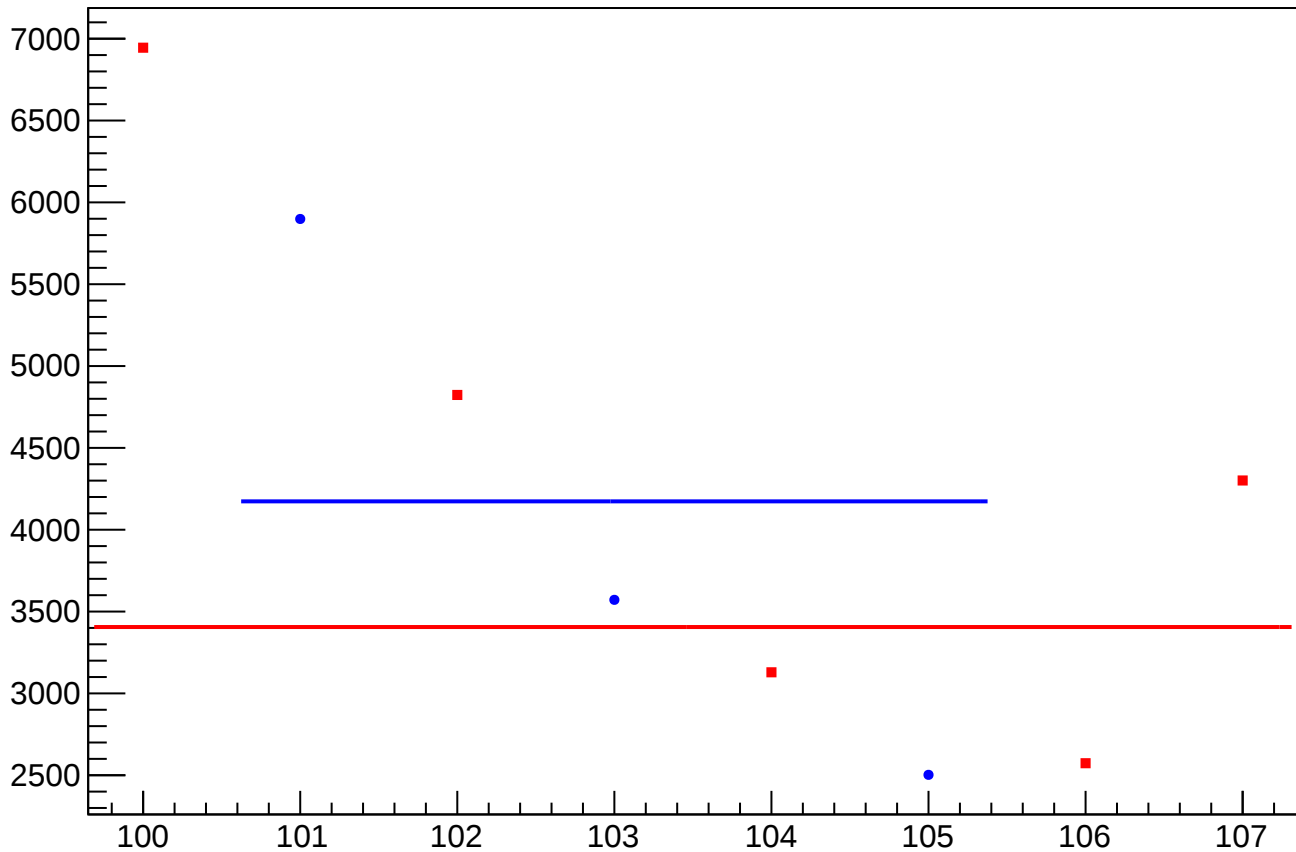
Right Out: 3370.766+/-2712.357  $\chi^2$ /NDF: 2.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-3320.119+/-3995.595  $\chi^2$ /NDF: 3.1/2

3370.766+/-2712.357  $\chi^2$ /NDF: 2.6/4

# asym\_at1\_dd\_rms vs slug



Right In: 4173.298+/-2.825  $\chi^2/\text{NDF}$ : 141093.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

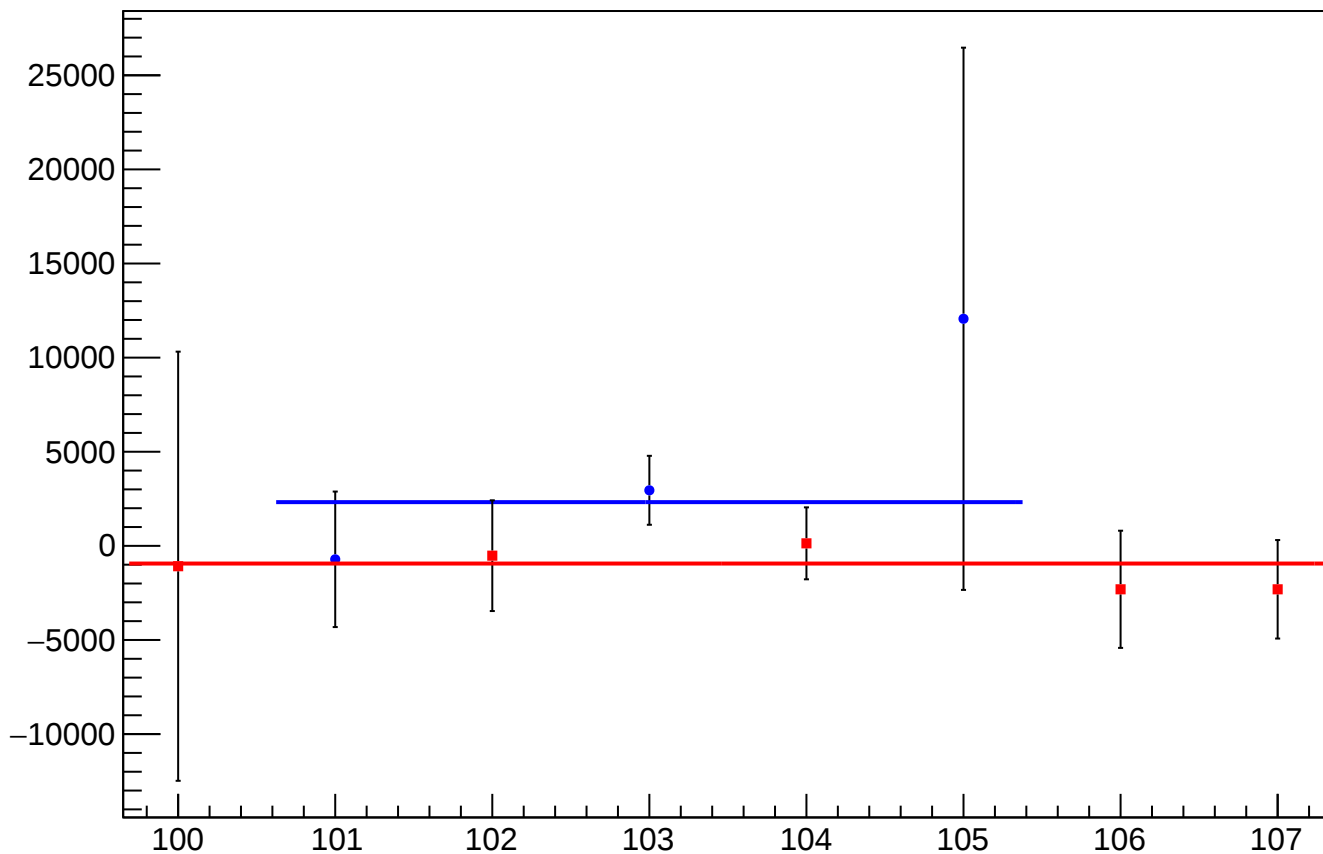
4173.298+/-2.825  $\chi^2/\text{NDF}$ : 141093.9/2

Right Out: 3405.519+/-1.918  $\chi^2/\text{NDF}$ : 220821.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3405.519+/-1.918  $\chi^2/\text{NDF}$ : 220821.4/4

# reg\_asym\_at2\_avg\_mean vs slug



Right In: 2322.837+/-1621.920  $\chi^2/\text{NDF}$ : 1.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

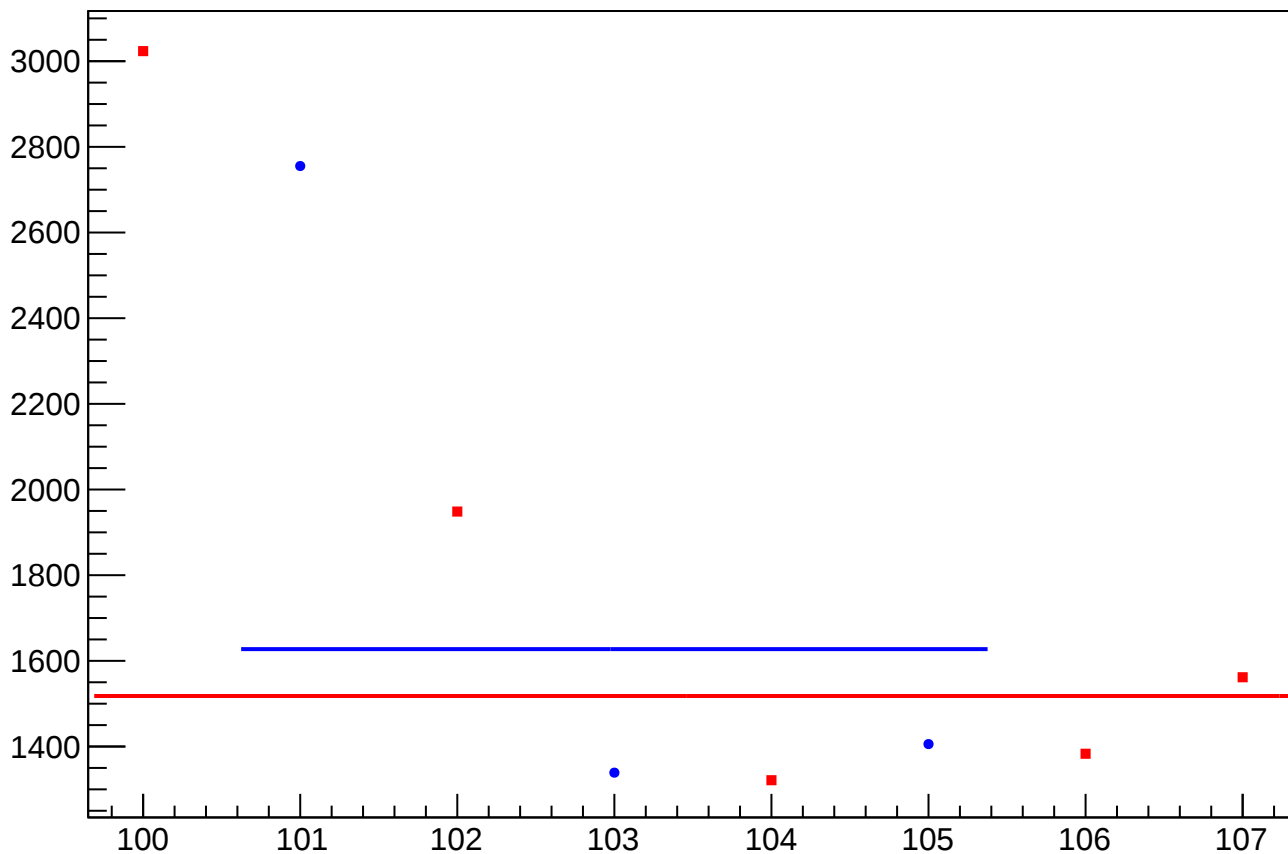
Right Out: -939.633+/-1243.891  $\chi^2/\text{NDF}$ : 0.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2322.837+/-1621.920  $\chi^2/\text{NDF}$ : 1.3/2

-939.633+/-1243.891  $\chi^2/\text{NDF}$ : 0.8/4

# reg\_asym\_at2\_avg\_rms vs slug



Right In: 1627.381+/-1.147  $\chi^2/\text{NDF}$ : 246438.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

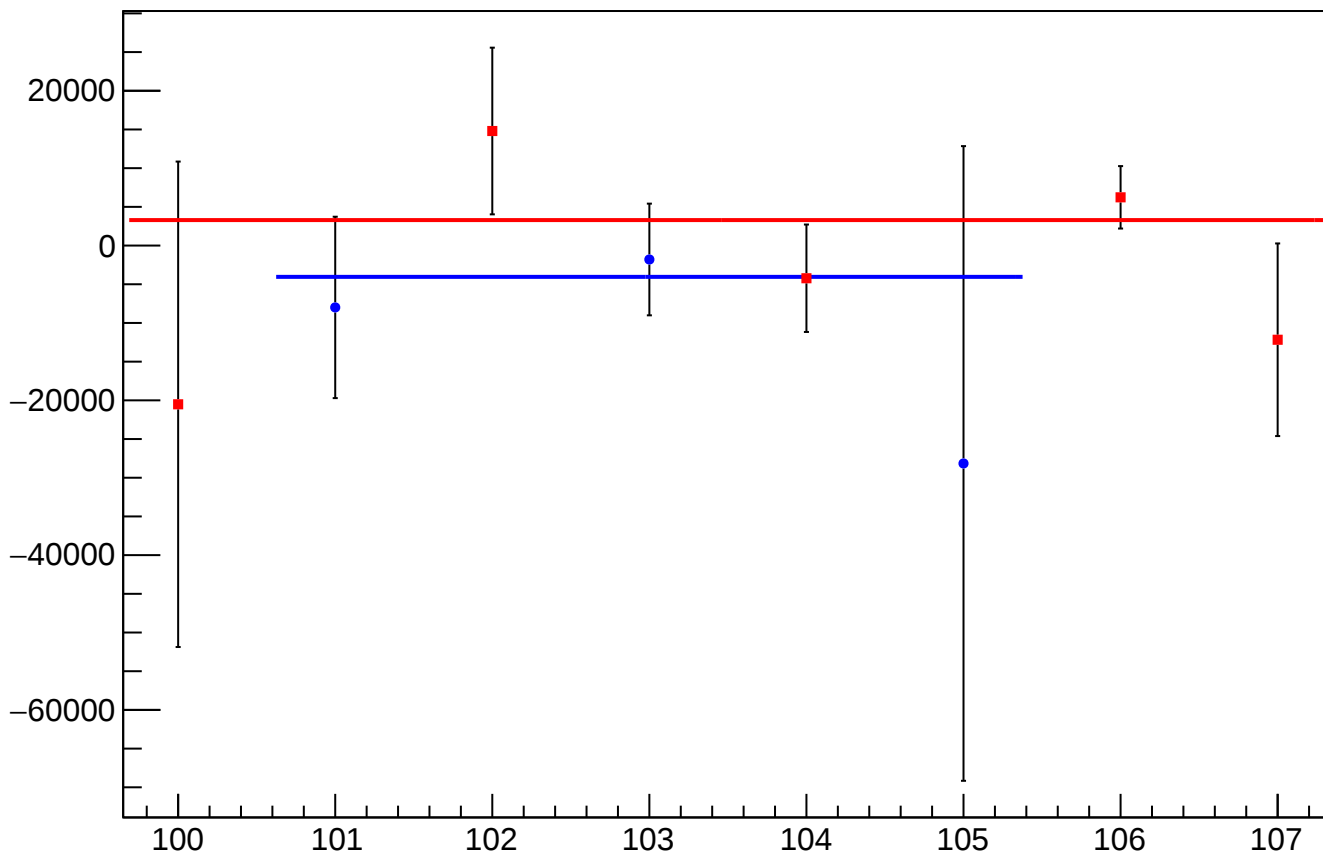
Right Out: 1517.945+/-0.880  $\chi^2/\text{NDF}$ : 103228.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1627.381+/-1.147  $\chi^2/\text{NDF}$ : 246438.3/2

1517.945+/-0.880  $\chi^2/\text{NDF}$ : 103228.6/4

asym\_at2\_avg\_correction\_mean vs slug



Right In: -4044.063+/-6076.783  $\chi^2$ /NDF: 0.6/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

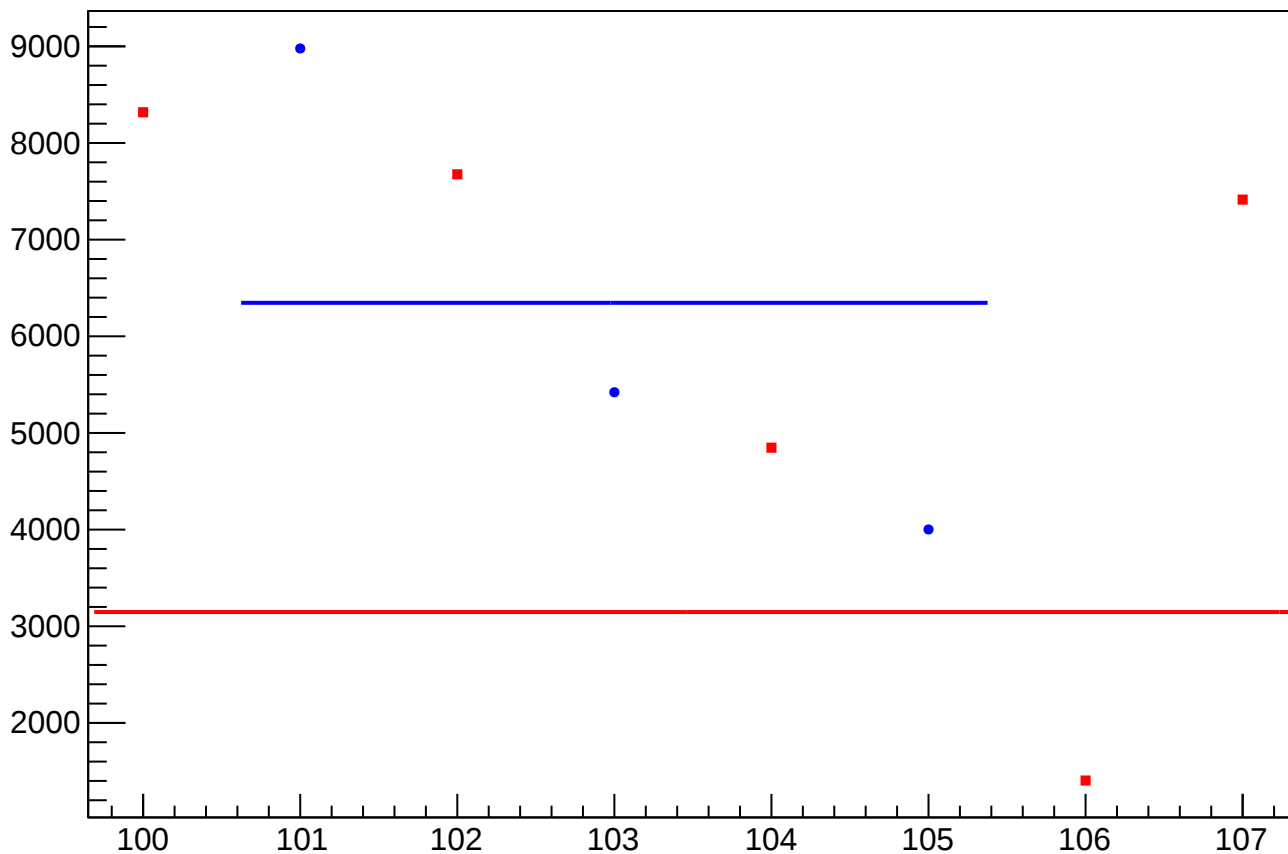
Right Out: 3291.844+/-3189.157  $\chi^2$ /NDF: 5.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-4044.063+/-6076.783  $\chi^2$ /NDF: 0.6/2

3291.844+/-3189.157  $\chi^2$ /NDF: 5.0/4

# asym\_at2\_avg\_correction\_rms vs slug



Right In: 6346.446+/-4.297  $\chi^2/\text{NDF}$ : 140275.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

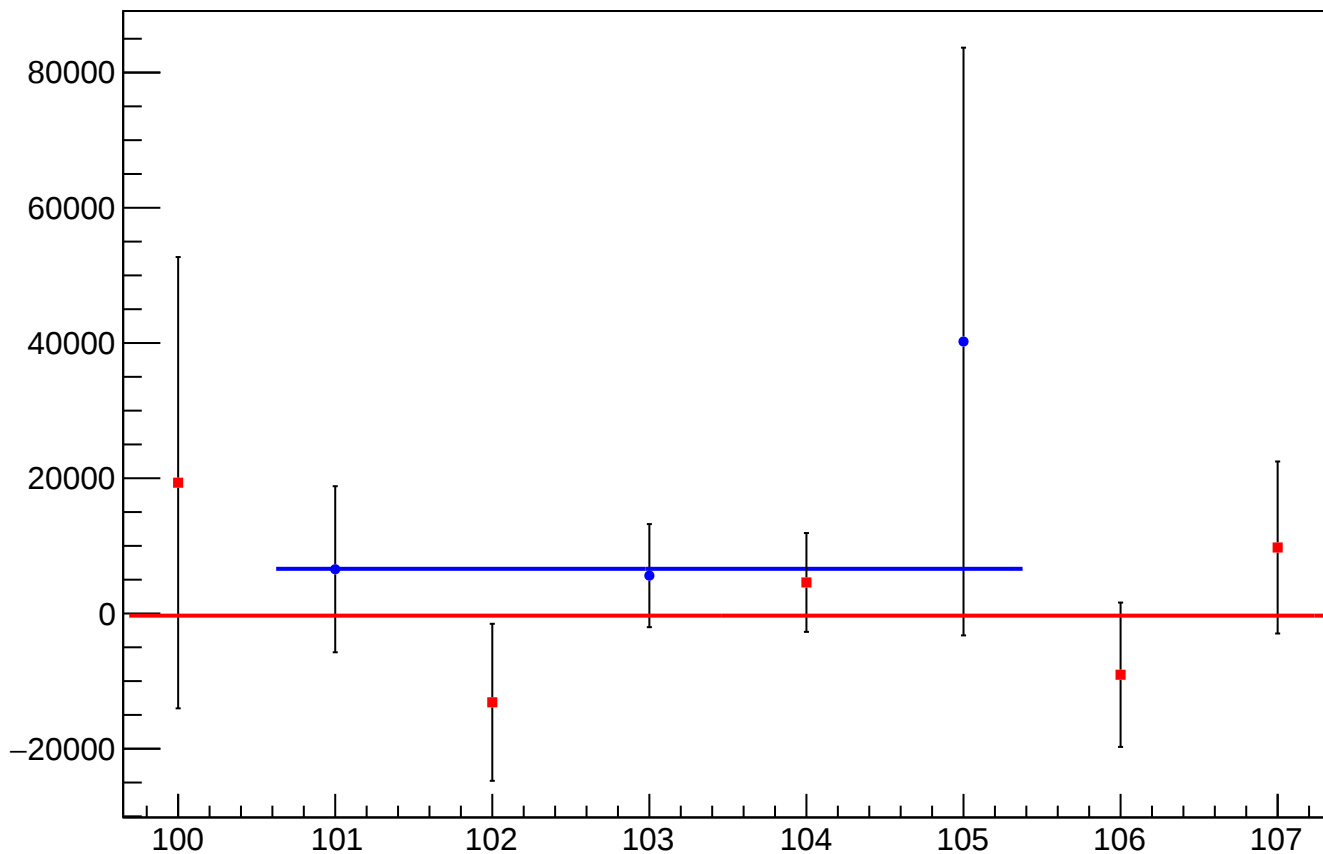
6346.446+/-4.297  $\chi^2/\text{NDF}$ : 140275.4/2

Right Out: 3147.319+/-2.255  $\chi^2/\text{NDF}$ : 1136808.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3147.319+/-2.255  $\chi^2/\text{NDF}$ : 1136808.7/4

# asym\_at2\_avg\_mean vs slug



Right In: 6606.815+/-6404.958  $\chi^2/\text{NDF}$ : 0.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

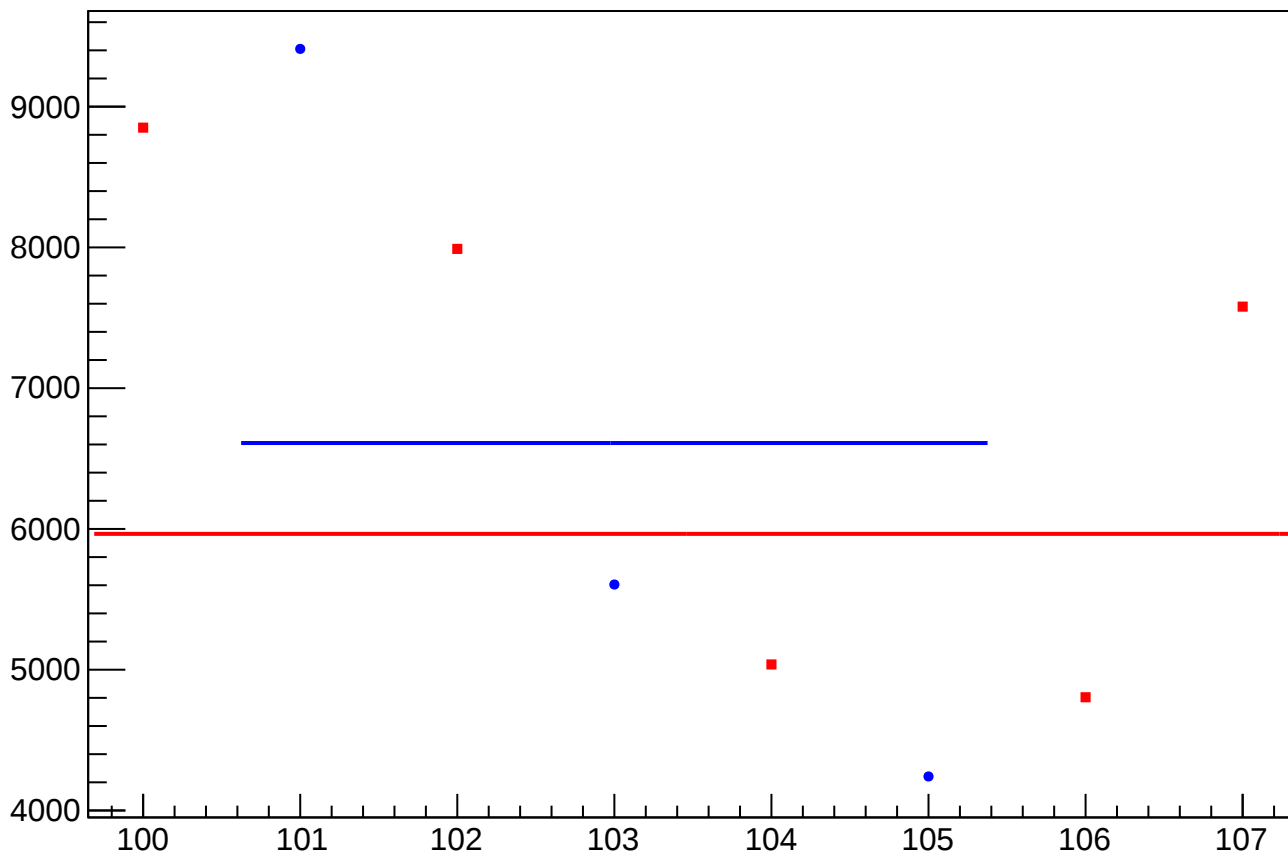
Right Out: -318.052+/-4879.669  $\chi^2/\text{NDF}$ : 3.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6606.815+/-6404.958  $\chi^2/\text{NDF}$ : 0.6/2

-318.052+/-4879.669  $\chi^2/\text{NDF}$ : 3.3/4

# asym\_at2\_avg\_rms vs slug



Right In: 6610.425+/-4.529  $\chi^2/\text{NDF}$ : 144701.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

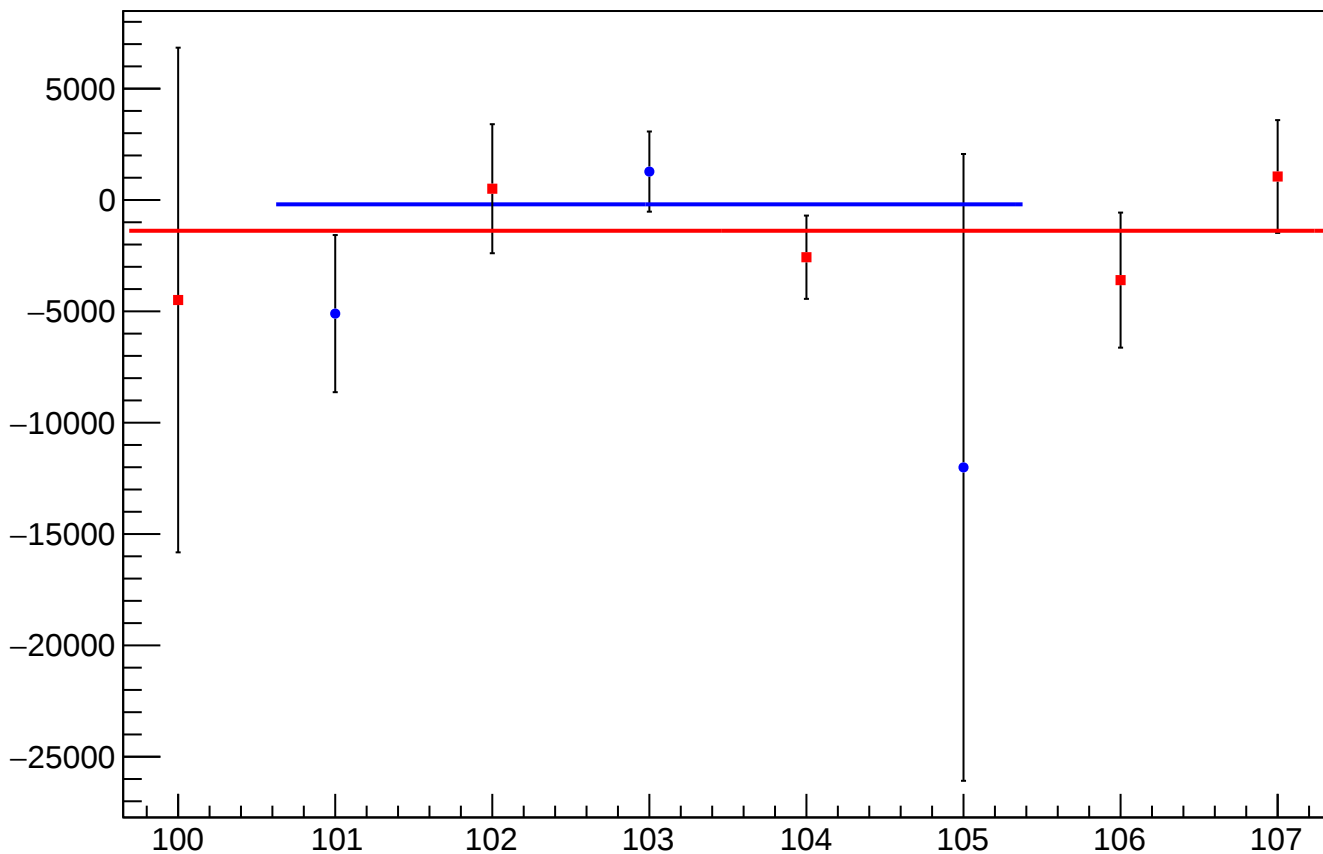
Right Out: 5965.025+/-3.449  $\chi^2/\text{NDF}$ : 163957.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6610.425+/-4.529  $\chi^2/\text{NDF}$ : 144701.0/2

5965.025+/-3.449  $\chi^2/\text{NDF}$ : 163957.3/4

# reg\_asym\_at2\_dd\_mean vs slug



Right In: -194.523+/-1593.134  $\chi^2/\text{NDF}$ : 3.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

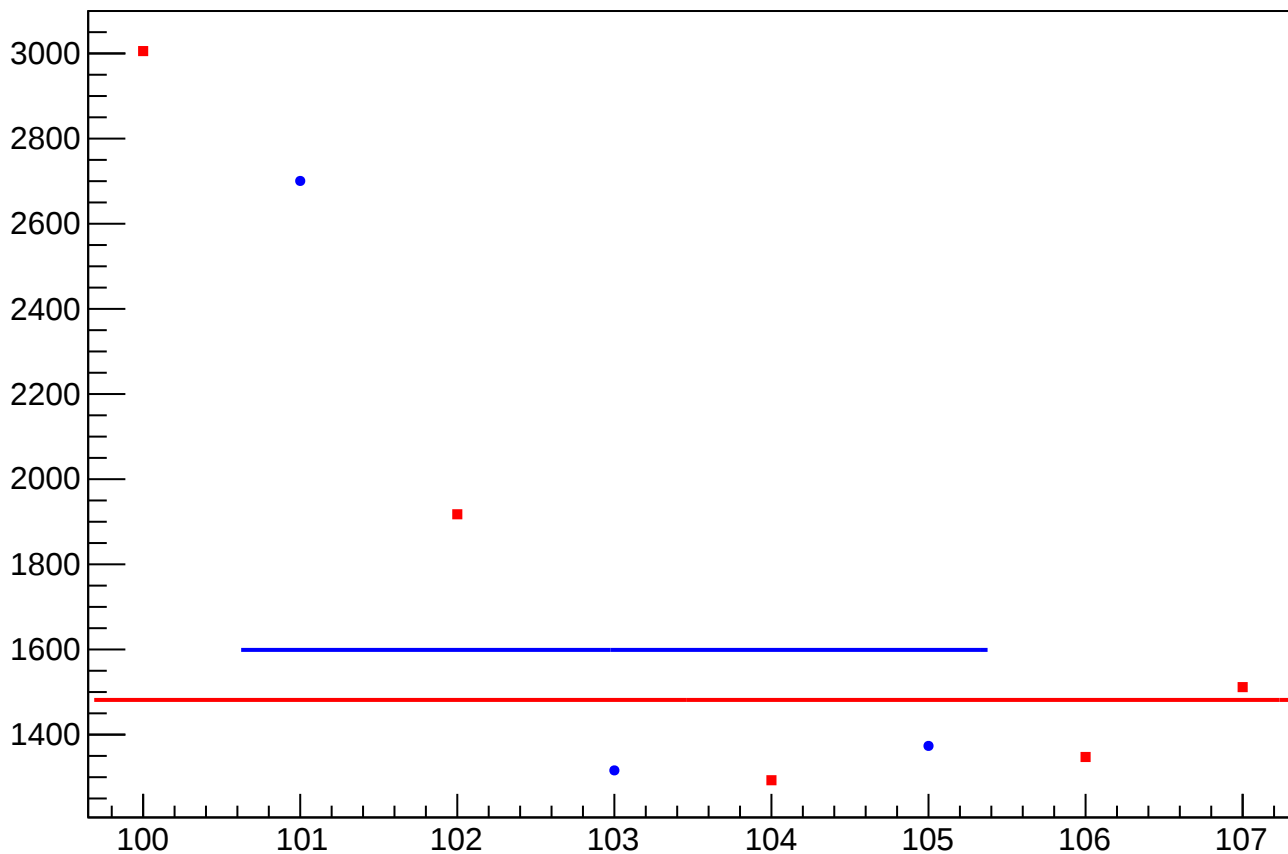
Right Out: -1381.489+/-1214.862  $\chi^2/\text{NDF}$ : 2.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-194.523+/-1593.134  $\chi^2/\text{NDF}$ : 3.3/2

-1381.489+/-1214.862  $\chi^2/\text{NDF}$ : 2.4/4

# reg\_asym\_at2\_dd\_rms vs slug



Right In: 1598.999+/-1.127  $\chi^2/\text{NDF}$ : 244899.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

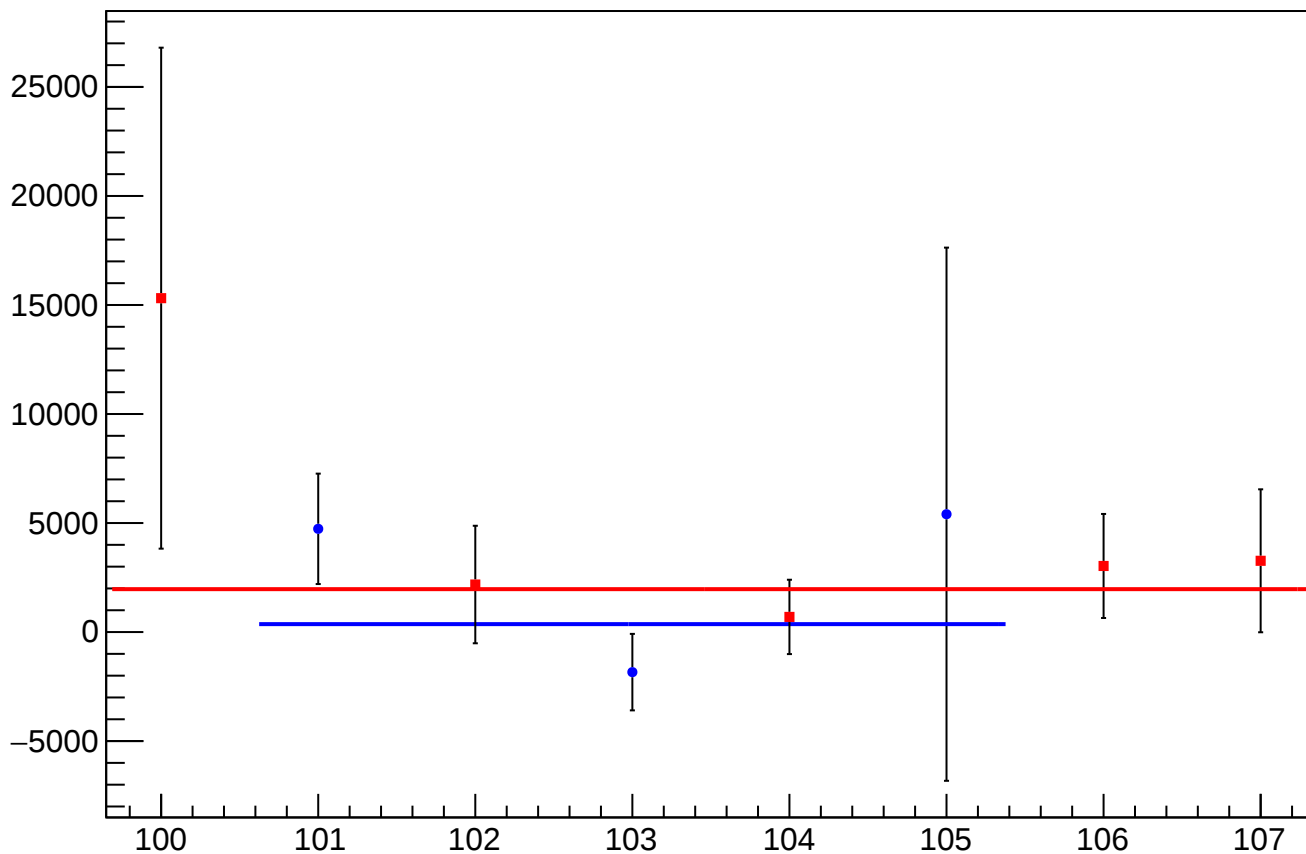
Right Out: 1481.496+/-0.859  $\chi^2/\text{NDF}$ : 106035.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1598.999+/-1.127  $\chi^2/\text{NDF}$ : 244899.7/2

1481.496+/-0.859  $\chi^2/\text{NDF}$ : 106035.4/4

# asym\_at2\_dd\_correction\_mean vs slug



Right In: 363.444 $\pm$ 1431.893  $\chi^2$ /NDF: 4.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

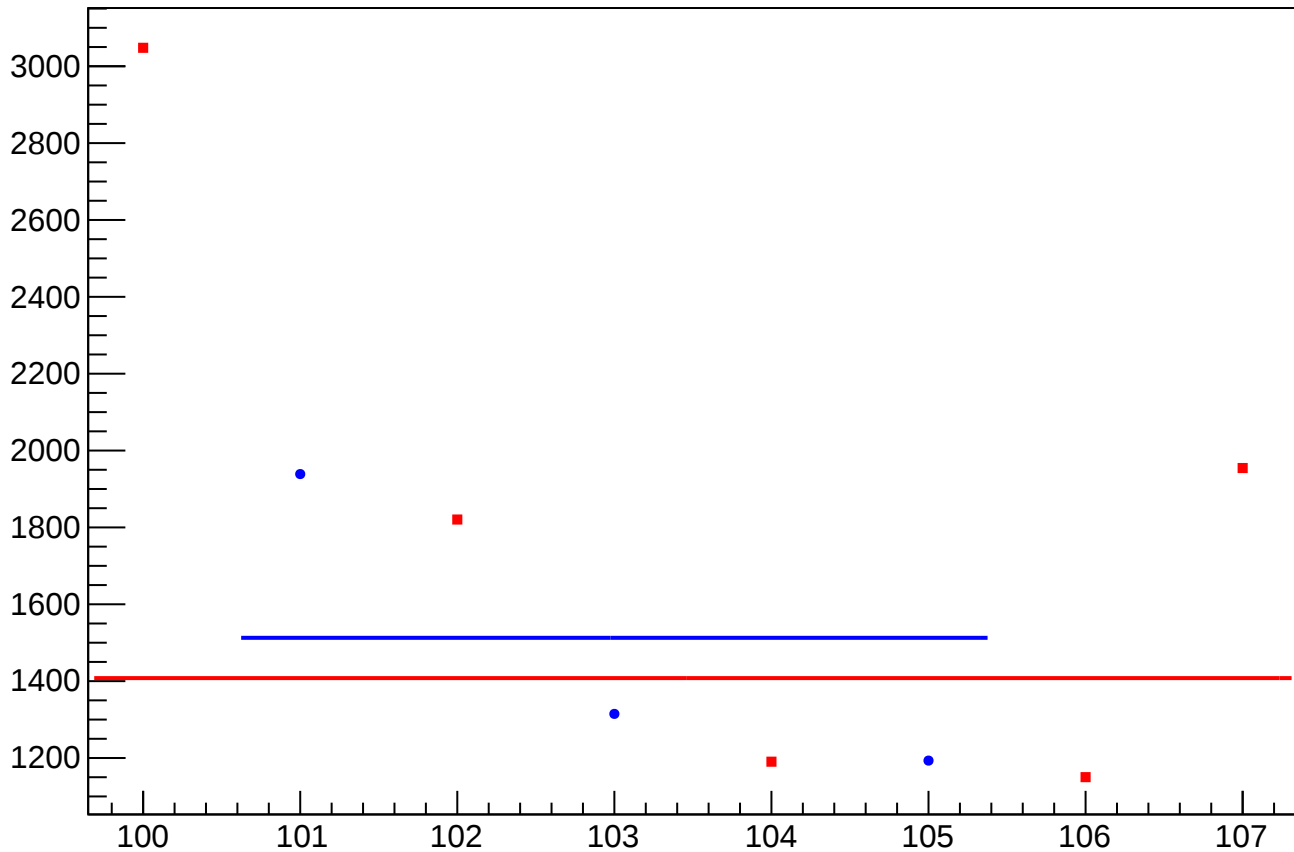
Right Out: 1967.562 $\pm$ 1148.517  $\chi^2$ /NDF: 2.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

363.444 $\pm$ 1431.893  $\chi^2$ /NDF: 4.7/2

1967.562 $\pm$ 1148.517  $\chi^2$ /NDF: 2.3/4

# asym\_at2\_dd\_correction\_rms vs slug



Right In: 1512.739 $\pm$ 1.013  $\chi^2$ /NDF: 83479.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

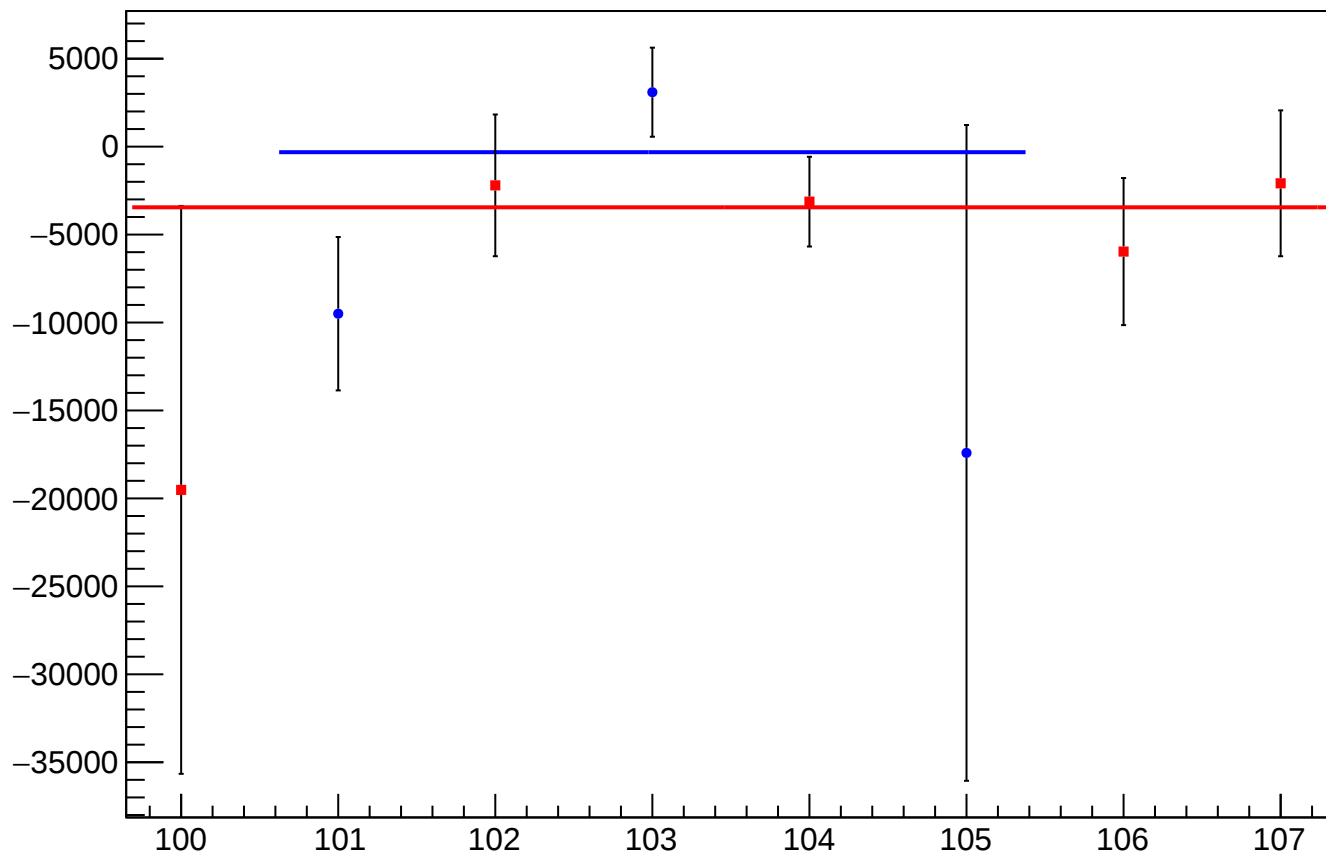
1512.739 $\pm$ 1.013  $\chi^2$ /NDF: 83479.8/2

Right Out: 1407.917 $\pm$ 0.812  $\chi^2$ /NDF: 199153.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1407.917 $\pm$ 0.812  $\chi^2$ /NDF: 199153.9/4

# asym\_at2\_dd\_mean vs slug



Right In: -315.739+/-2174.575  $\chi^2/\text{NDF}$ : 7.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

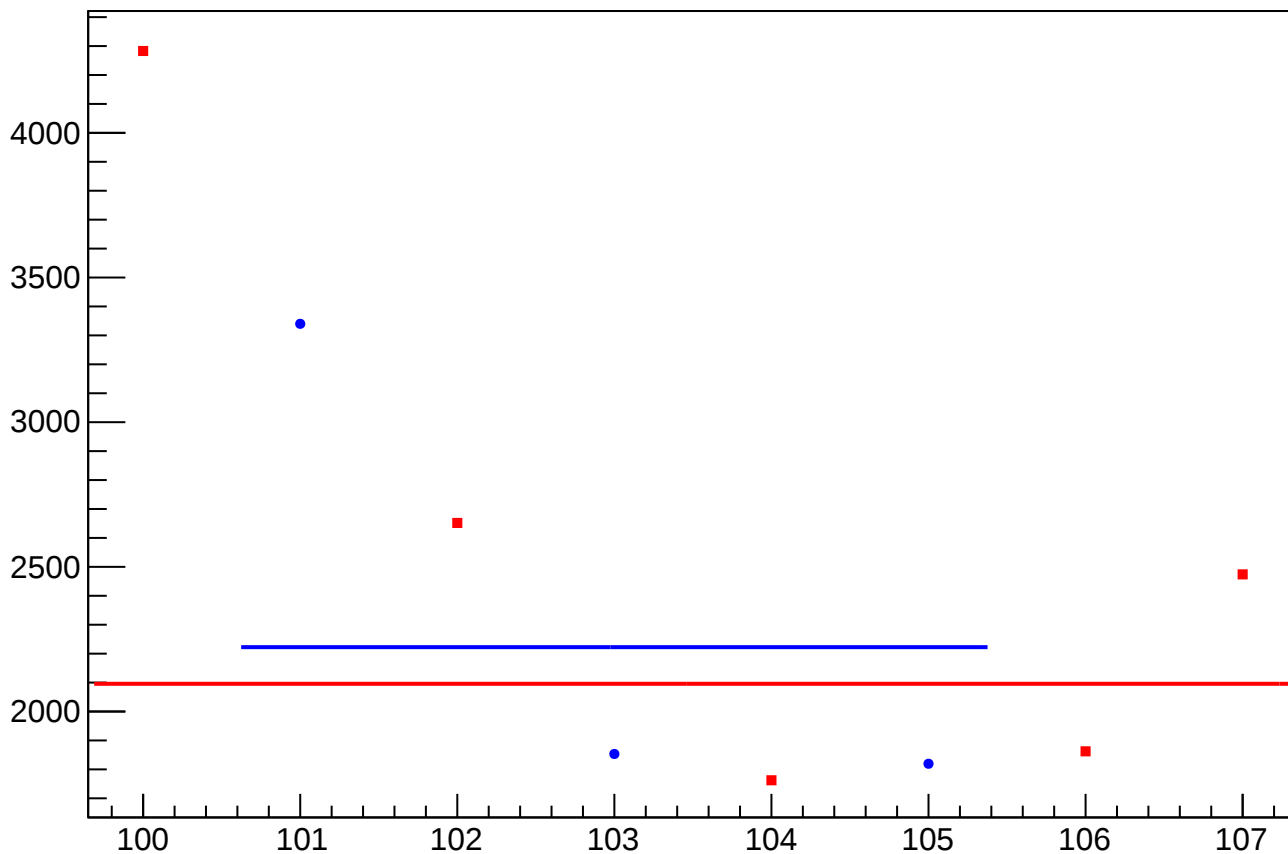
Right Out: -3449.215+/-1728.883  $\chi^2/\text{NDF}$ : 1.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-315.739+/-2174.575  $\chi^2/\text{NDF}$ : 7.1/2

-3449.215+/-1728.883  $\chi^2/\text{NDF}$ : 1.6/4

# asym\_at2\_dd\_rms vs slug



Right In: 2222.469+/-1.538  $\chi^2/\text{NDF}$ : 174818.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

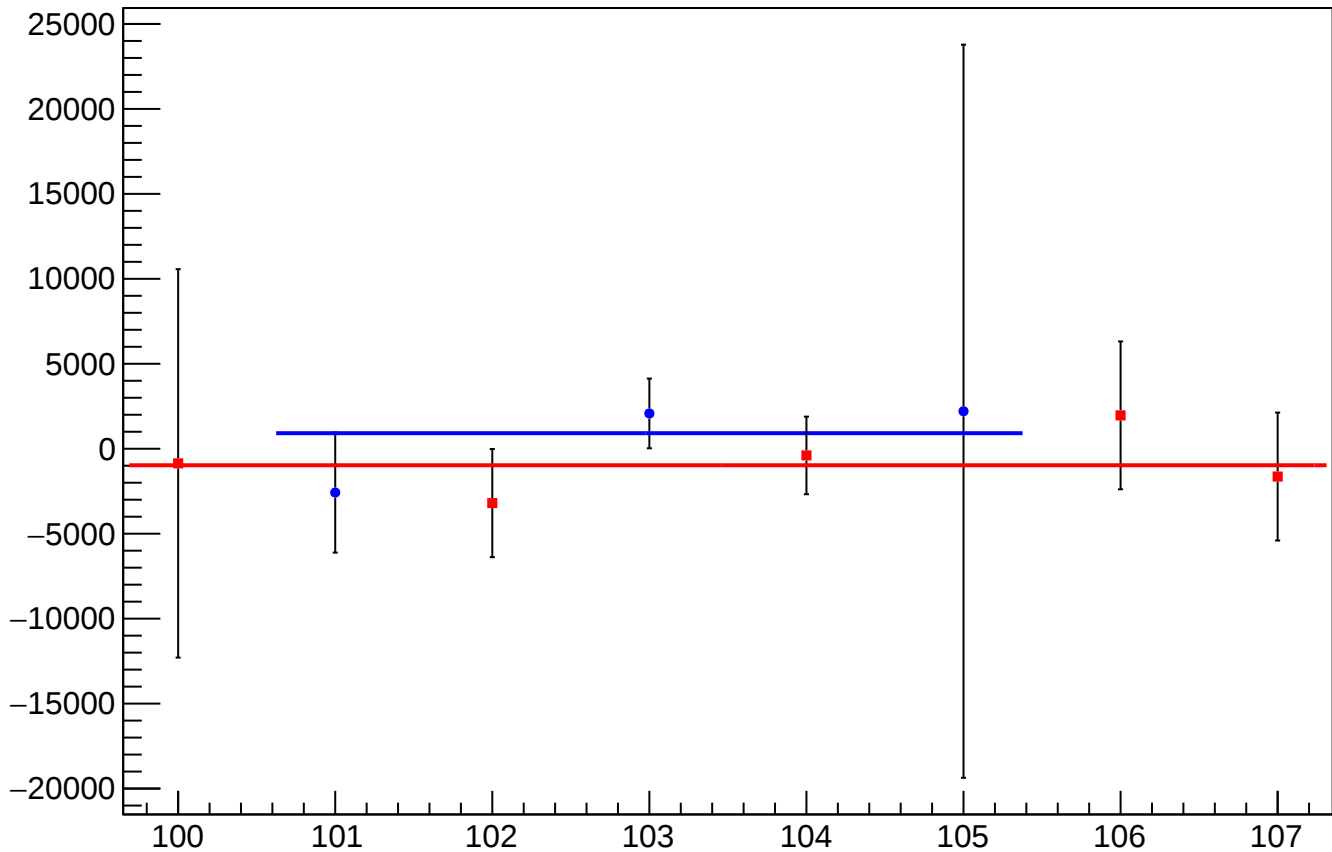
Right Out: 2095.840+/-1.222  $\chi^2/\text{NDF}$ : 131859.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2222.469+/-1.538  $\chi^2/\text{NDF}$ : 174818.0/2

2095.840+/-1.222  $\chi^2/\text{NDF}$ : 131859.8/4

# reg\_asym\_atl1r2\_avg\_mean vs slug



Right In: 914.920+/-1768.260  $\chi^2/\text{NDF}$ : 1.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

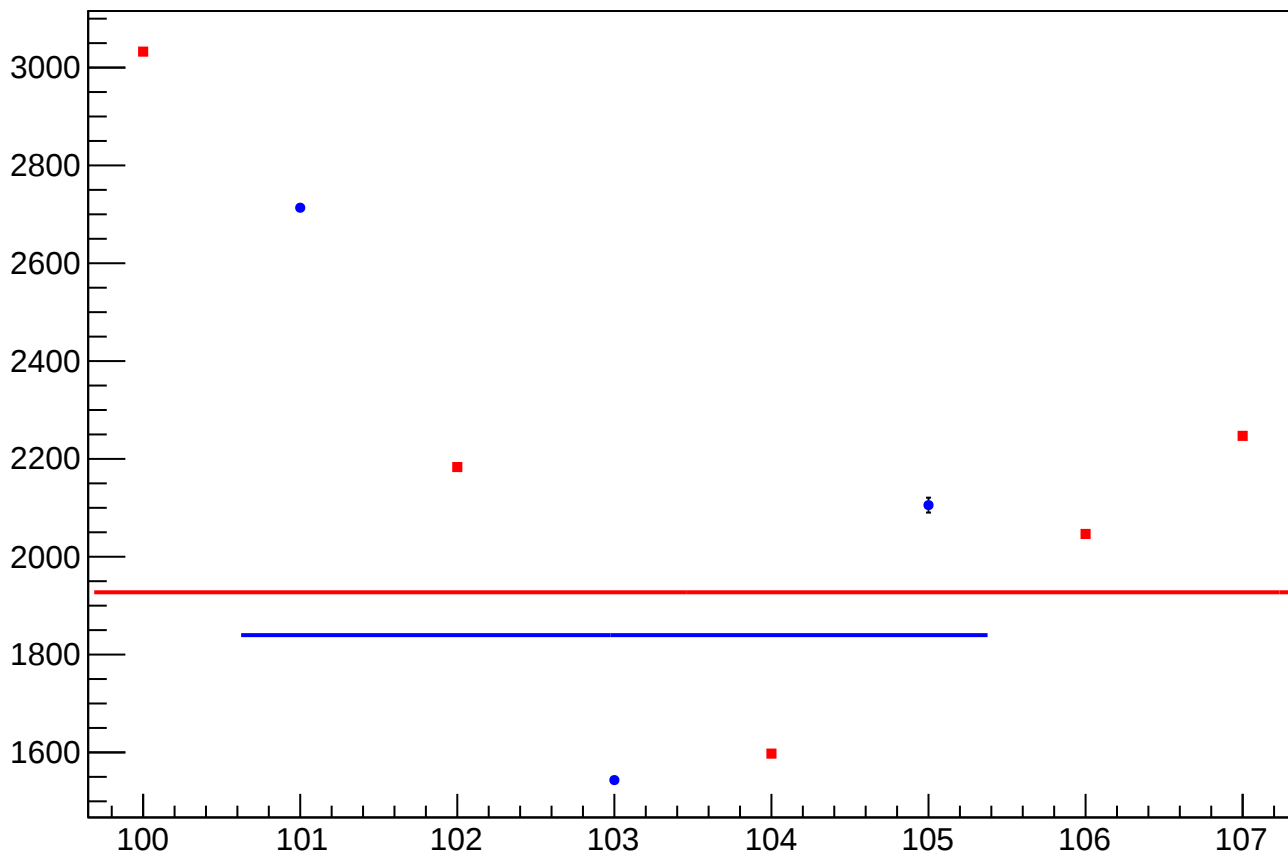
914.920+/-1768.260  $\chi^2/\text{NDF}$ : 1.3/2

Right Out: -971.772+/-1540.163  $\chi^2/\text{NDF}$ : 1.0/4

-971.772+/-1540.163  $\chi^2/\text{NDF}$ : 1.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_avg\_rms vs slug



Right In: 1839.738 $\pm$ 1.250  $\chi^2$ /NDF: 164153.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

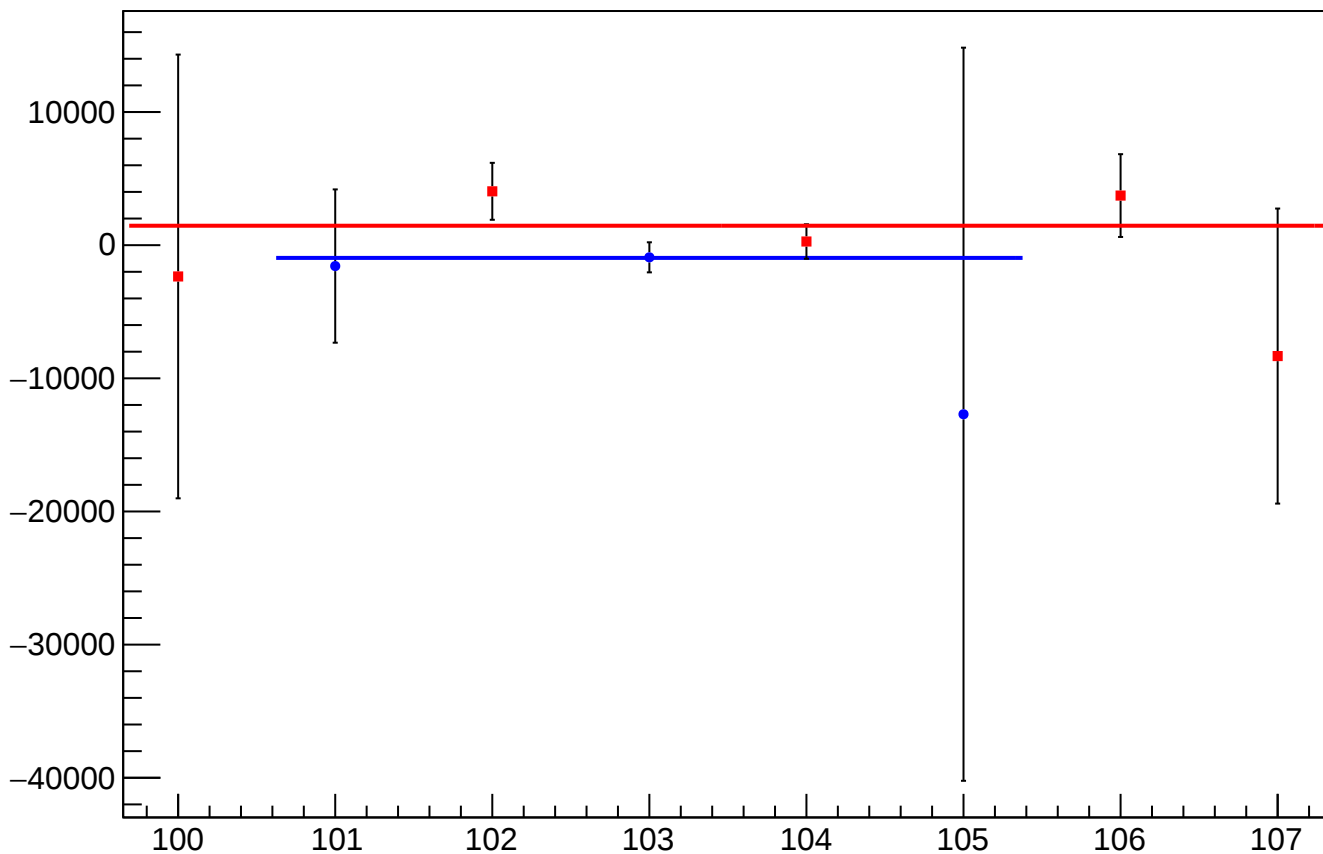
Right Out: 1927.333 $\pm$ 1.082  $\chi^2$ /NDF: 89475.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1839.738 $\pm$ 1.250  $\chi^2$ /NDF: 164153.0/2

1927.333 $\pm$ 1.082  $\chi^2$ /NDF: 89475.0/4

# asym\_atl1r2\_avg\_correction\_mean vs slug



Right In: -956.032+/-1106.889  $\chi^2/\text{NDF}$ : 0.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

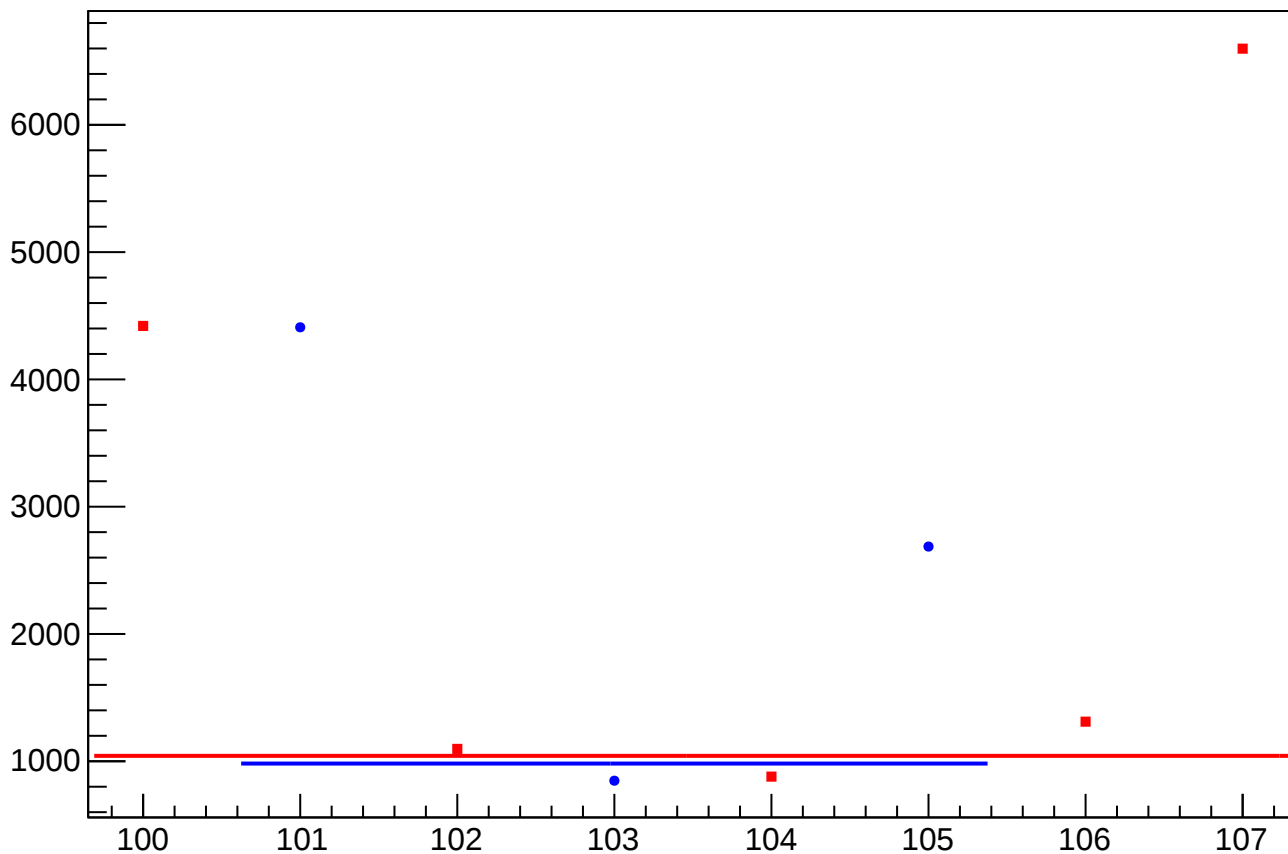
Right Out: 1460.469+/-1037.097  $\chi^2/\text{NDF}$ : 3.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-956.032+/-1106.889  $\chi^2/\text{NDF}$ : 0.2/2

1460.469+/-1037.097  $\chi^2/\text{NDF}$ : 3.7/4

# asym\_atl1r2\_avg\_correction\_rms vs slug



Right In: 981.968 $\pm$ 0.783  $\chi^2$ /NDF: 745115.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

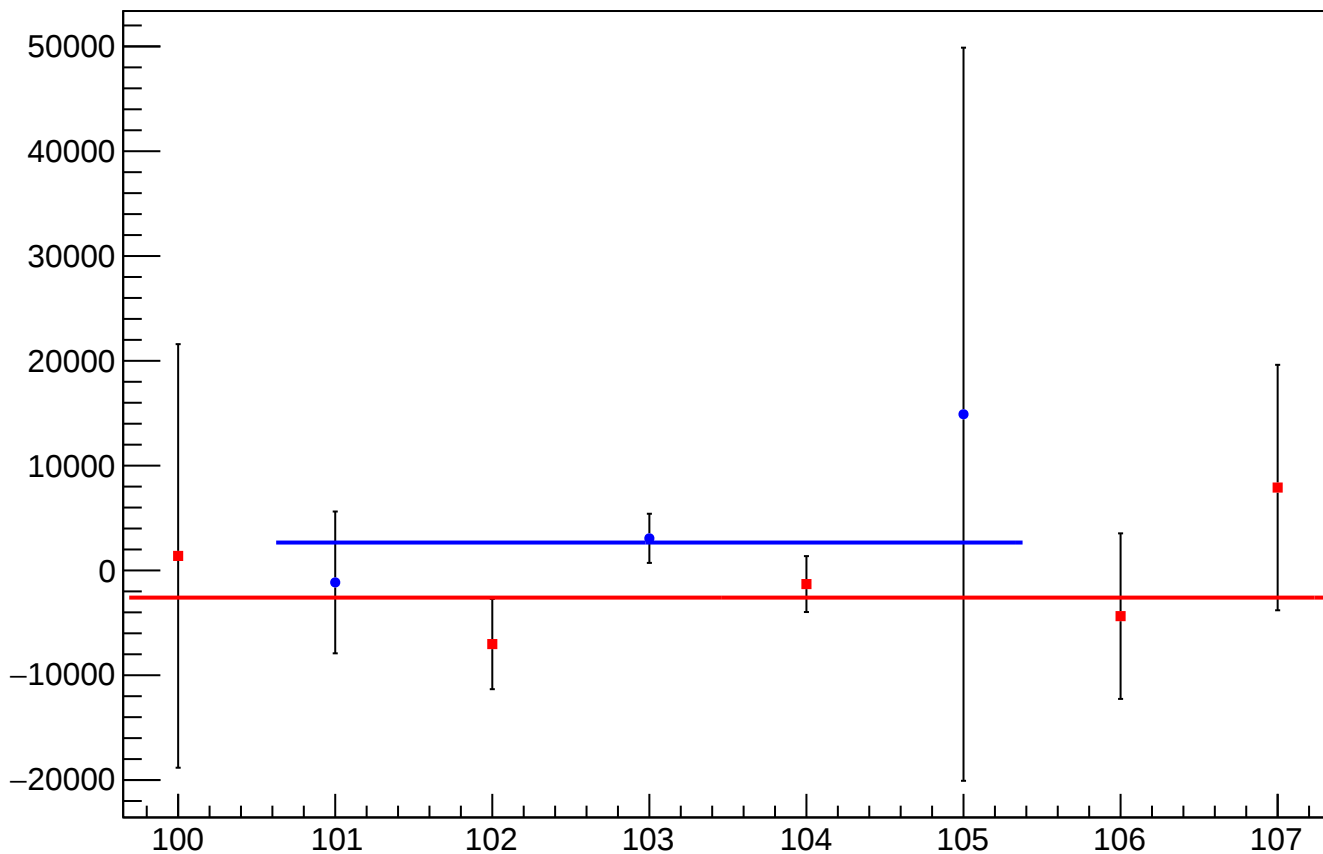
Right Out: 1042.475 $\pm$ 0.733  $\chi^2$ /NDF: 633053.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

981.968 $\pm$ 0.783  $\chi^2$ /NDF: 745115.5/2

1042.475 $\pm$ 0.733  $\chi^2$ /NDF: 633053.0/4

asym\_atl1r2\_avg\_mean vs slug



Right In: 2661.391+/-2211.178  $\chi^2/\text{NDF}$ : 0.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

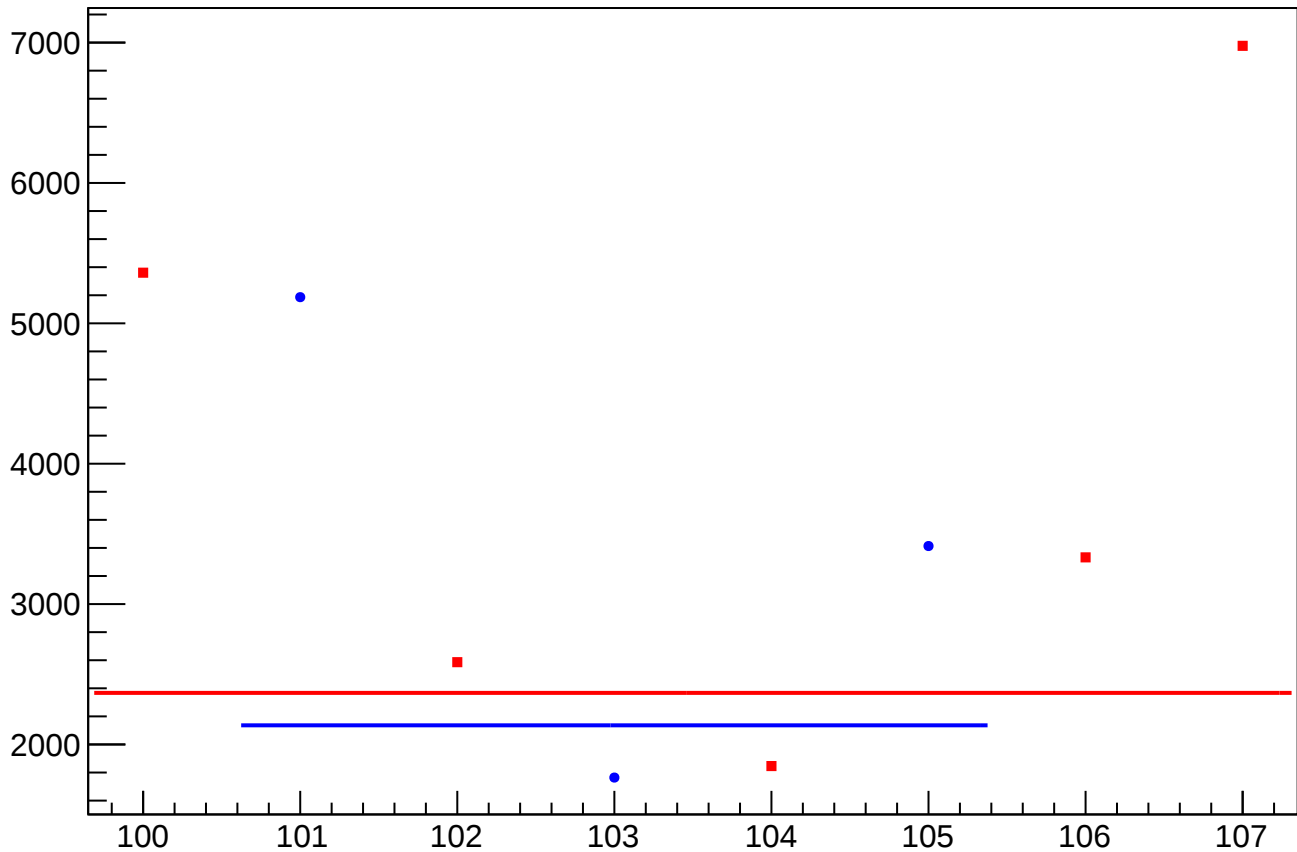
Right Out: -2592.079+/-2130.716  $\chi^2/\text{NDF}$ : 2.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2661.391+/-2211.178  $\chi^2/\text{NDF}$ : 0.5/2

-2592.079+/-2130.716  $\chi^2/\text{NDF}$ : 2.2/4

# asym\_atl1r2\_avg\_rms vs slug



Right In: 2136.294+/-1.564  $\chi^2/\text{NDF}$ : 459536.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

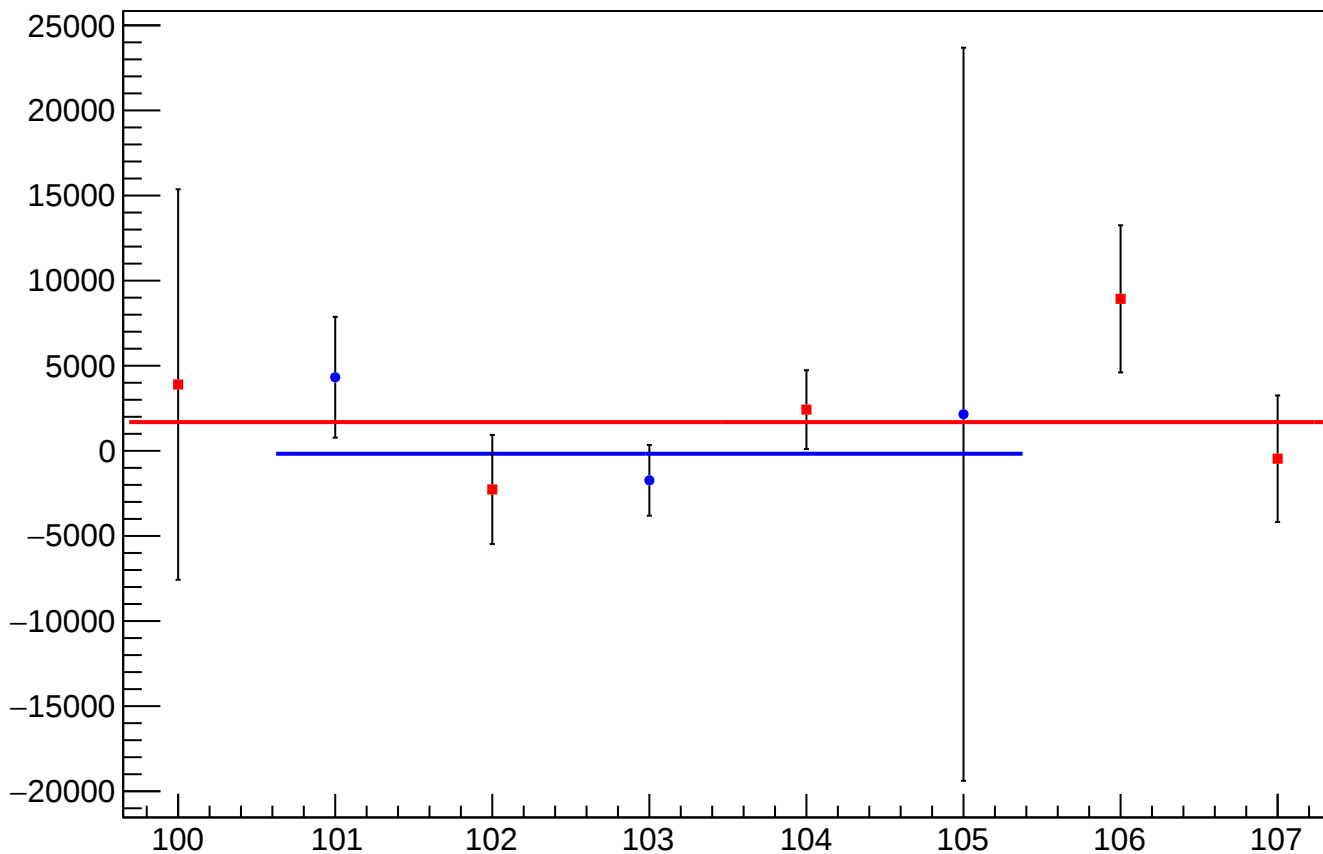
2136.294+/-1.564  $\chi^2/\text{NDF}$ : 459536.0/2

Right Out: 2367.408+/-1.489  $\chi^2/\text{NDF}$ : 474879.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2367.408+/-1.489  $\chi^2/\text{NDF}$ : 474879.7/4

# reg\_asym\_atl1r2\_dd\_mean vs slug



Right In: -170.381+/-1787.434  $\chi^2/\text{NDF}$ : 2.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

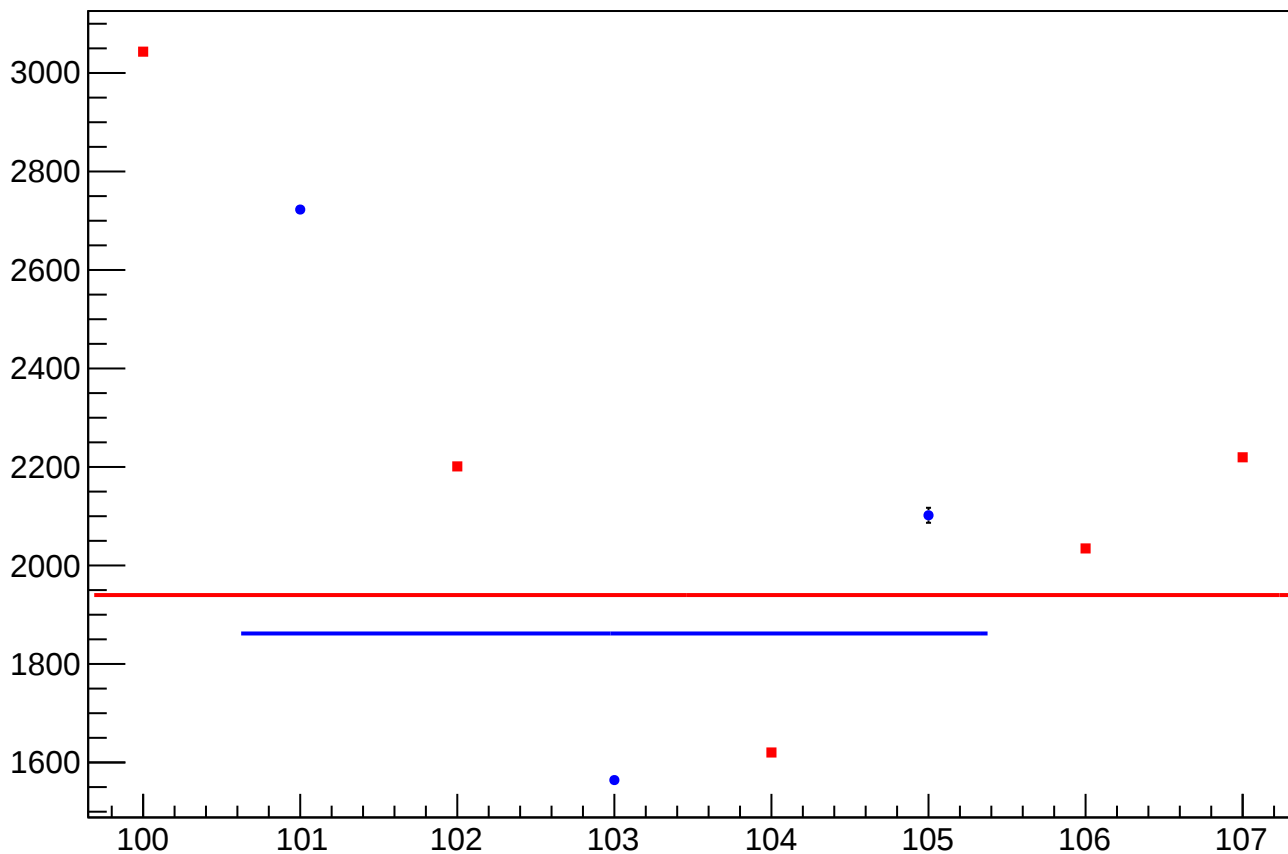
Right Out: 1688.436+/-1547.806  $\chi^2/\text{NDF}$ : 4.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-170.381+/-1787.434  $\chi^2/\text{NDF}$ : 2.2/2

1688.436+/-1547.806  $\chi^2/\text{NDF}$ : 4.8/4

# reg\_asym\_atl1r2\_dd\_rms vs slug



Right In: 1861.898+/-1.264  $\chi^2/\text{NDF}$ : 158968.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

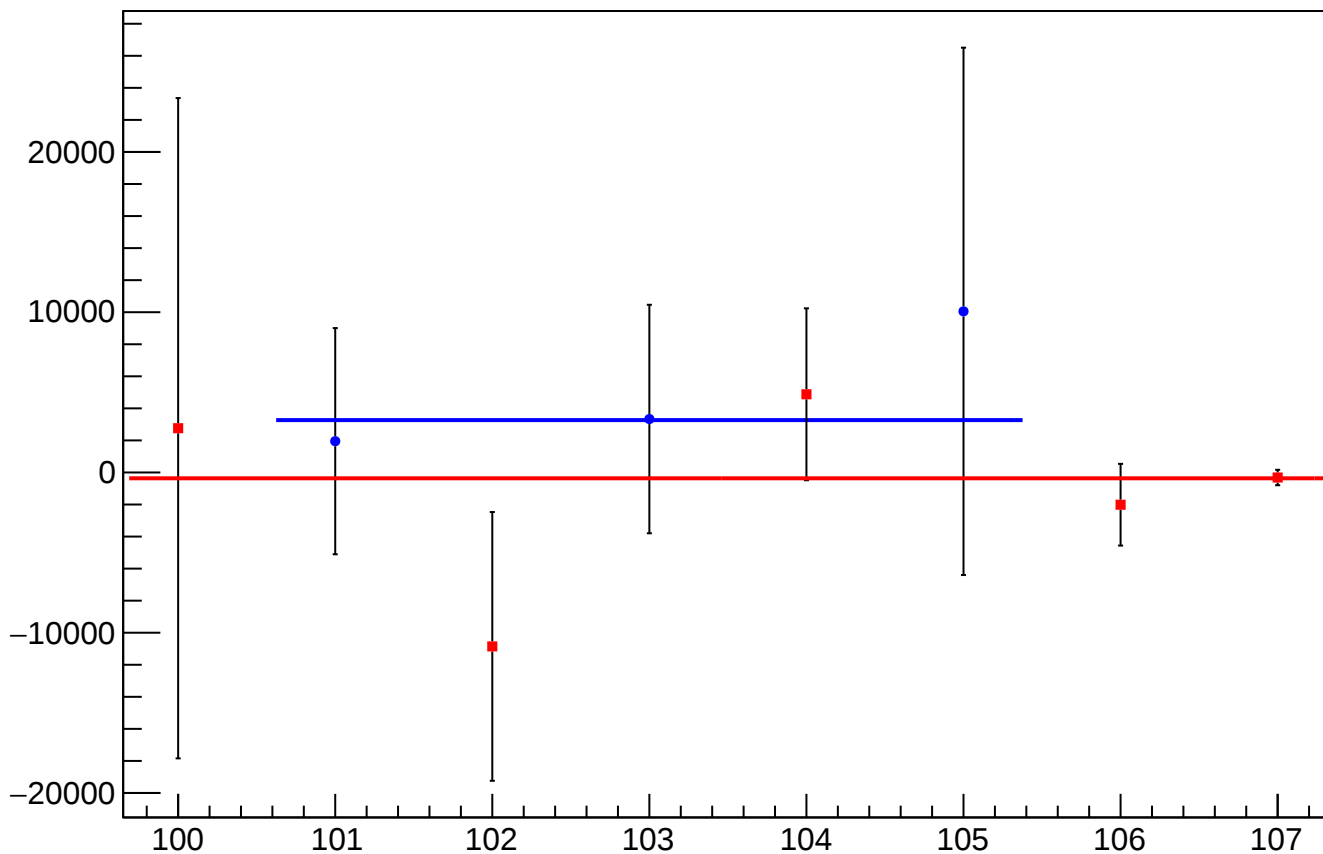
Right Out: 1939.913+/-1.087  $\chi^2/\text{NDF}$ : 82319.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1861.898+/-1.264  $\chi^2/\text{NDF}$ : 158968.6/2

1939.913+/-1.087  $\chi^2/\text{NDF}$ : 82319.9/4

# asym\_atl1r2\_dd\_correction\_mean vs slug



Right In: 3266.992 $\pm$ 4797.767  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

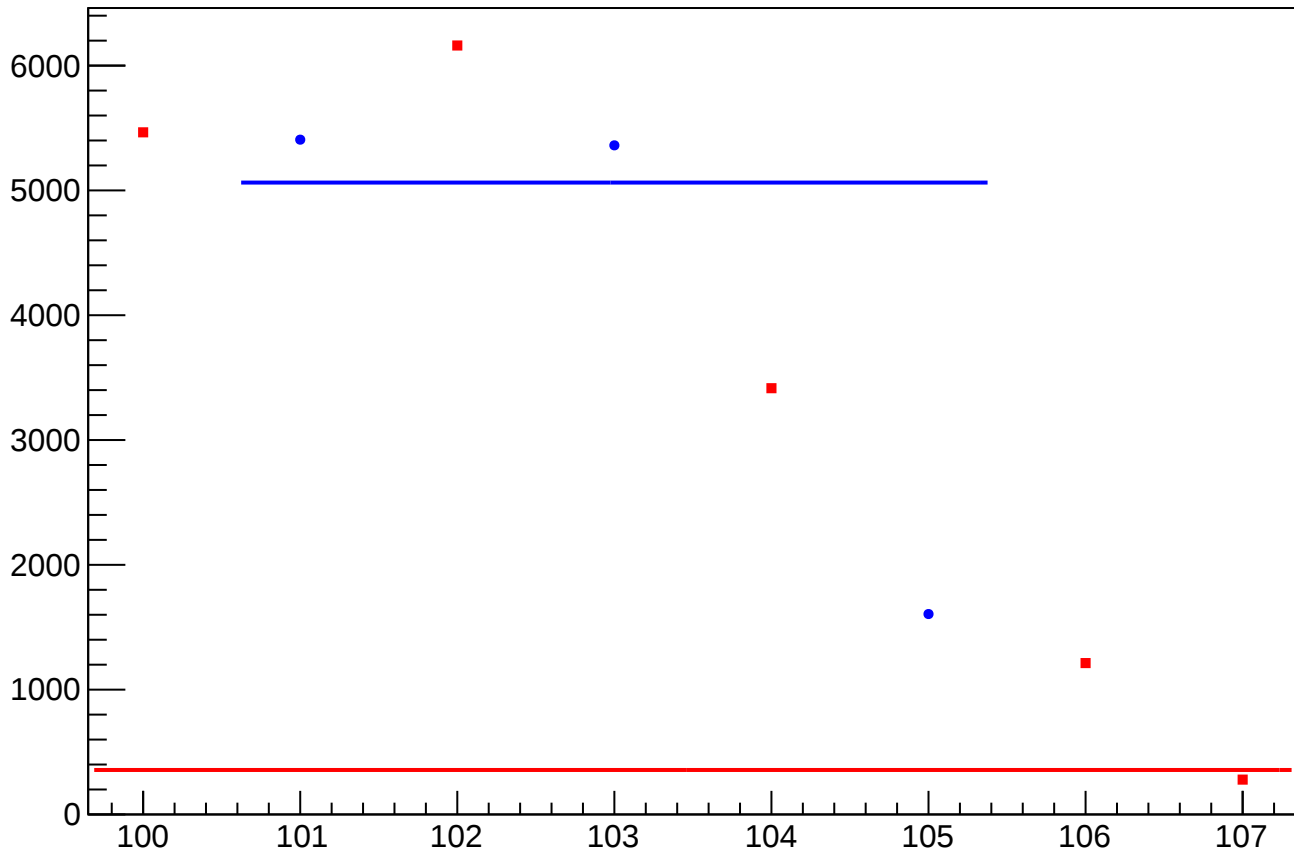
Right Out: -364.642 $\pm$ 470.712  $\chi^2$ /NDF: 3.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3266.992 $\pm$ 4797.767  $\chi^2$ /NDF: 0.2/2

-364.642 $\pm$ 470.712  $\chi^2$ /NDF: 3.0/4

# asym\_atl1r2\_dd\_correction\_rms vs slug



Right In: 5062.856+/-3.393  $\chi^2/\text{NDF}$ : 96537.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

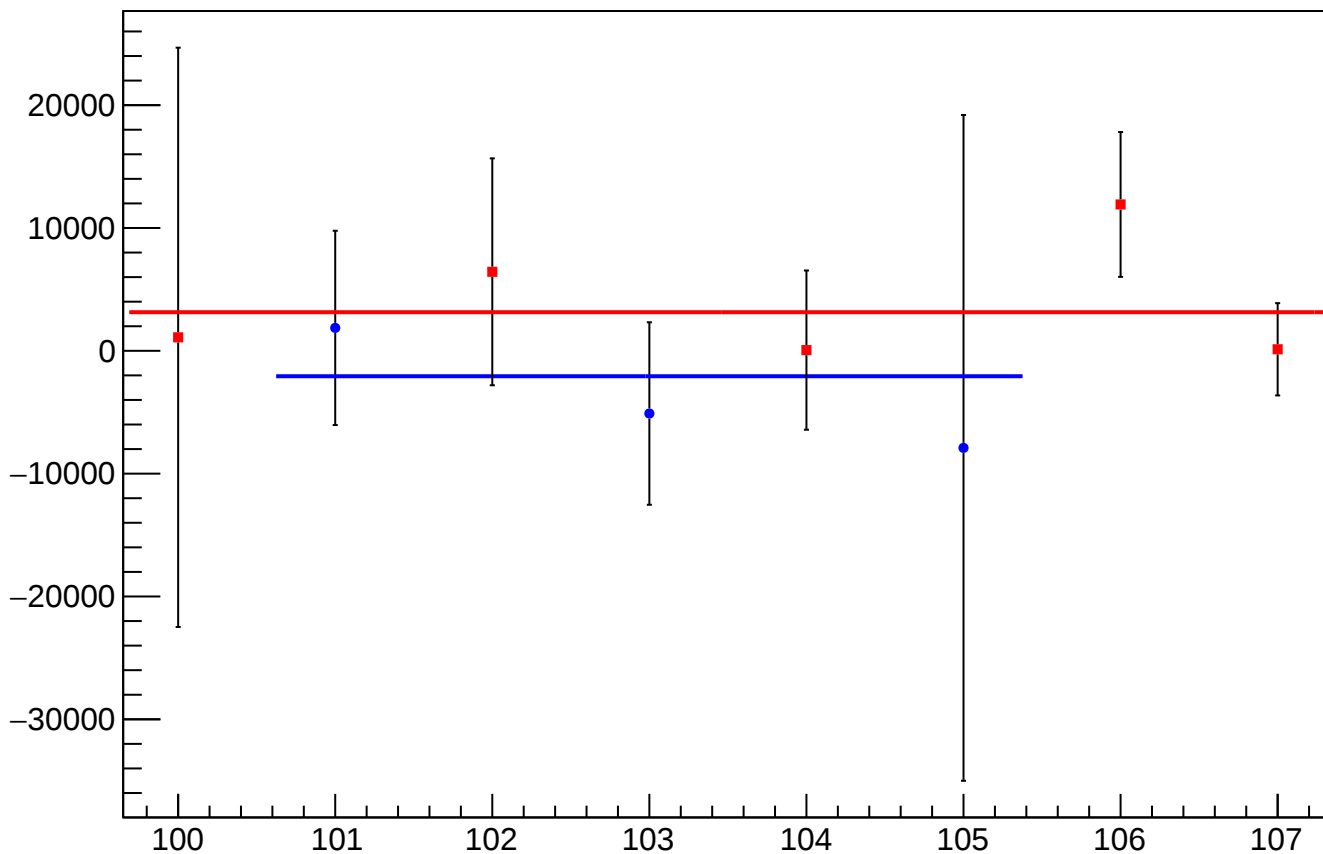
5062.856+/-3.393  $\chi^2/\text{NDF}$ : 96537.0/2

Right Out: 356.373+/-0.333  $\chi^2/\text{NDF}$ : 2008884.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

356.373+/-0.333  $\chi^2/\text{NDF}$ : 2008884.0/4

# asym\_atl1r2\_dd\_mean vs slug



Right In: -2070.034+/-5309.414  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

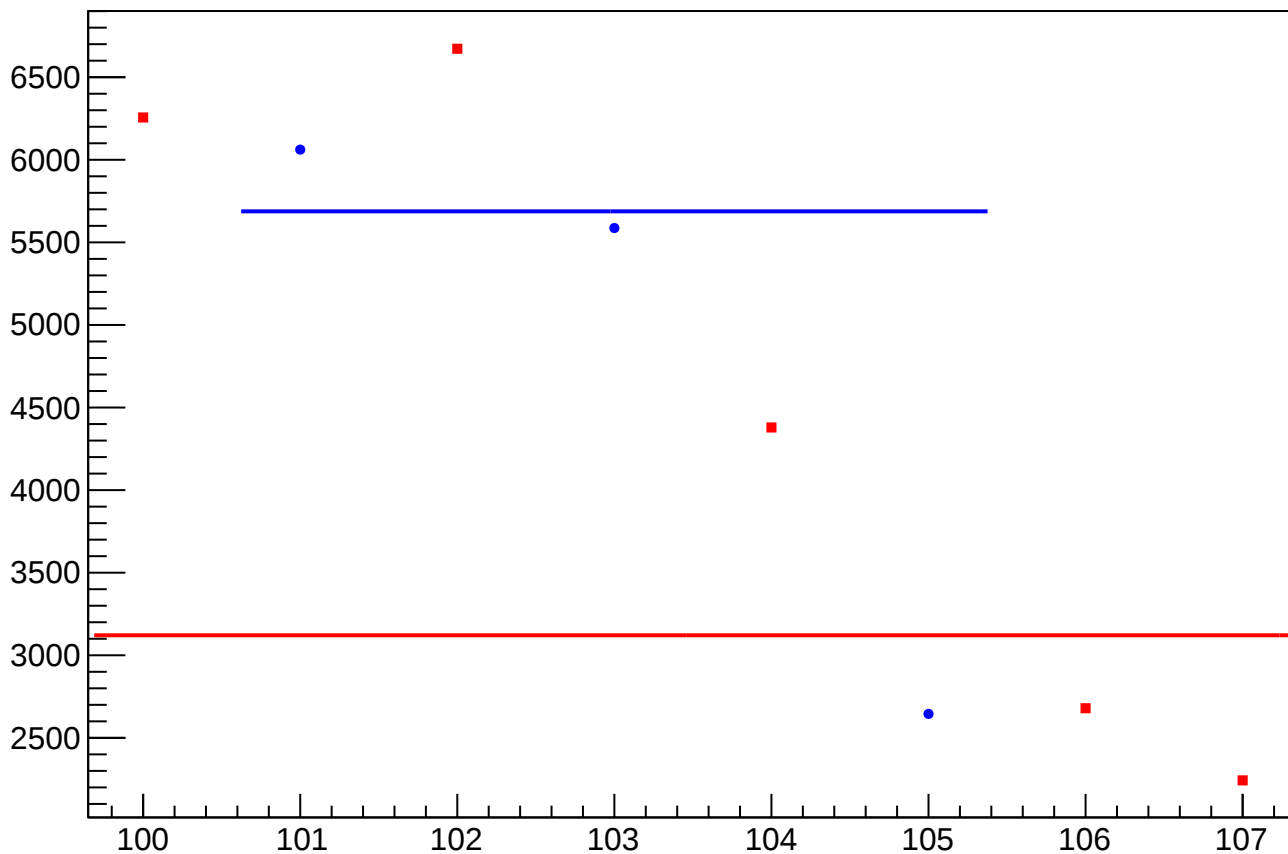
Right Out: 3143.560+/-2702.574  $\chi^2$ /NDF: 3.2/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2070.034+/-5309.414  $\chi^2$ /NDF: 0.5/2

3143.560+/-2702.574  $\chi^2$ /NDF: 3.2/4

# asym\_atl1r2\_dd\_rms vs slug



Right In: 5687.864+/-3.754  $\chi^2/\text{NDF}$ : 30046.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

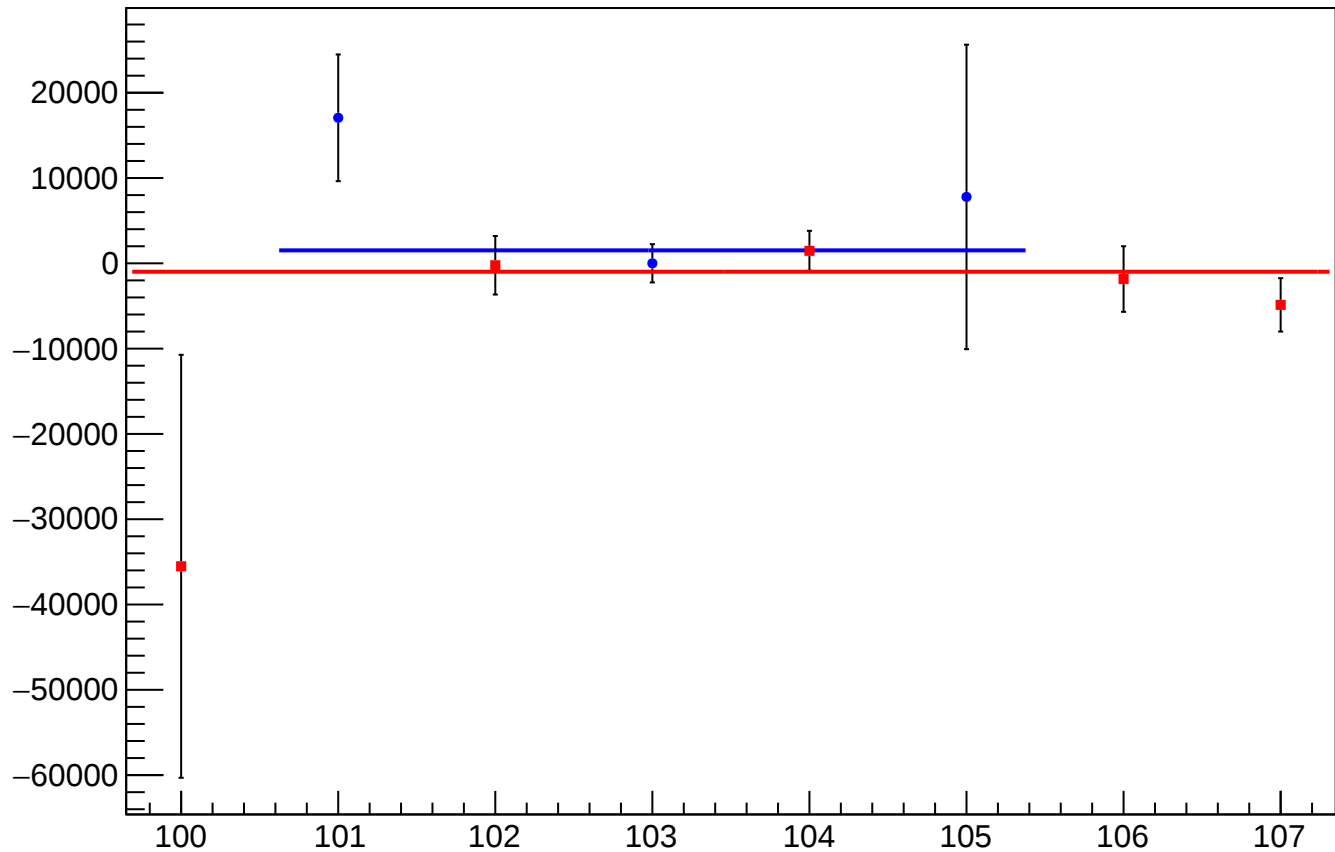
Right Out: 3121.003+/-1.876  $\chi^2/\text{NDF}$ : 528845.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5687.864+/-3.754  $\chi^2/\text{NDF}$ : 30046.8/2

3121.003+/-1.876  $\chi^2/\text{NDF}$ : 528845.7/4

# reg\_asym\_atr1l2\_avg\_mean vs slug



Right In: 1521.016+/-2132.217  $\chi^2$ /NDF: 5.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

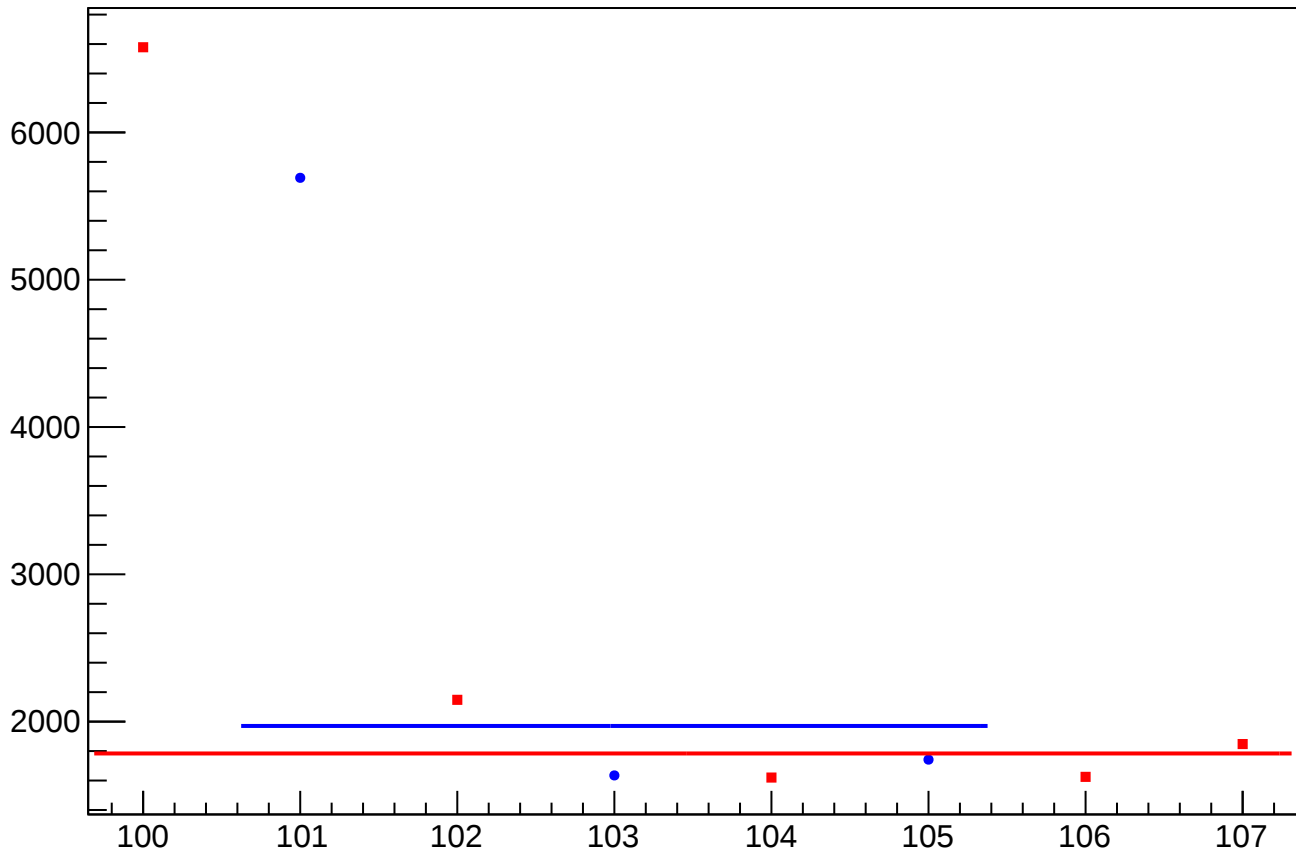
Right Out: -983.773+/-1510.501  $\chi^2$ /NDF: 4.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1521.016+/-2132.217  $\chi^2$ /NDF: 5.0/2

-983.773+/-1510.501  $\chi^2$ /NDF: 4.7/4

# reg\_asym\_atr1l2\_avg\_rms vs slug



Right In: 1970.550+/-1.508  $\chi^2/\text{NDF}$ : 547158.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

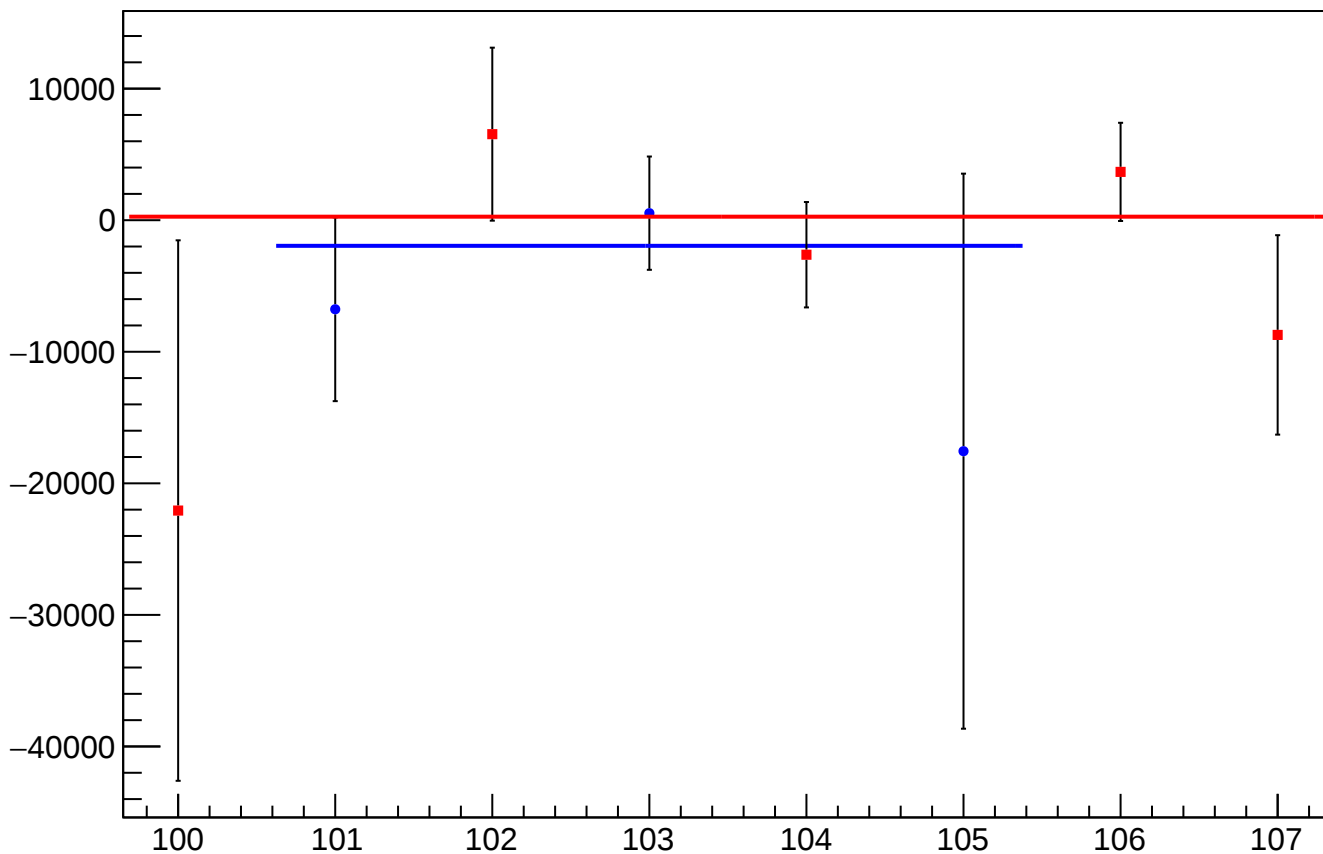
1970.550+/-1.508  $\chi^2/\text{NDF}$ : 547158.2/2

Right Out: 1783.765+/-1.034  $\chi^2/\text{NDF}$ : 112769.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1783.765+/-1.034  $\chi^2/\text{NDF}$ : 112769.5/4

# asym\_atr1l2\_avg\_correction\_mean vs slug



Right In: -1947.204+/-3610.985  $\chi^2/\text{NDF}$ : 1.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

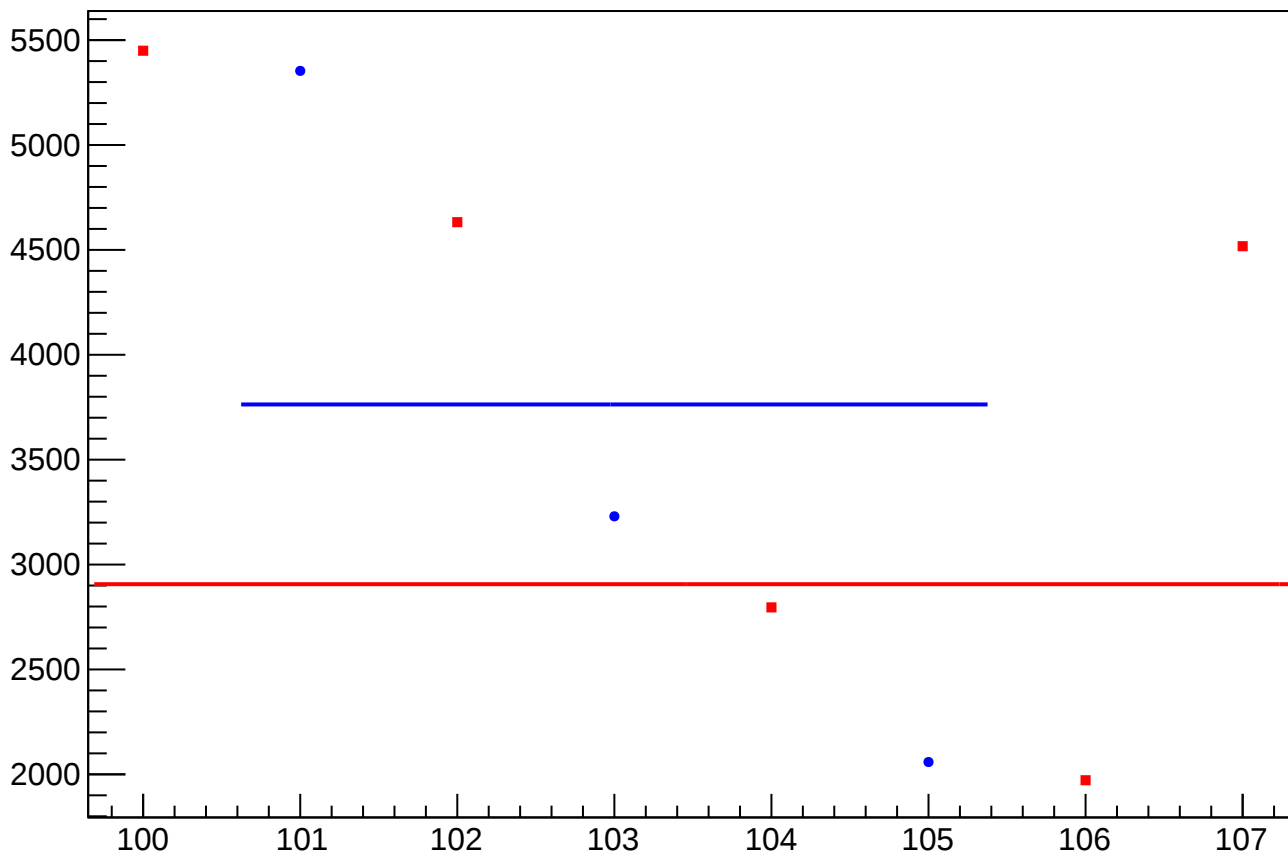
Right Out: 267.816+/-2376.725  $\chi^2/\text{NDF}$ : 4.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1947.204+/-3610.985  $\chi^2/\text{NDF}$ : 1.4/2

267.816+/-2376.725  $\chi^2/\text{NDF}$ : 4.9/4

# asym\_atr1l2\_avg\_correction\_rms vs slug



Right In: 3763.241+/-2.553  $\chi^2/\text{NDF}$ : 147395.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

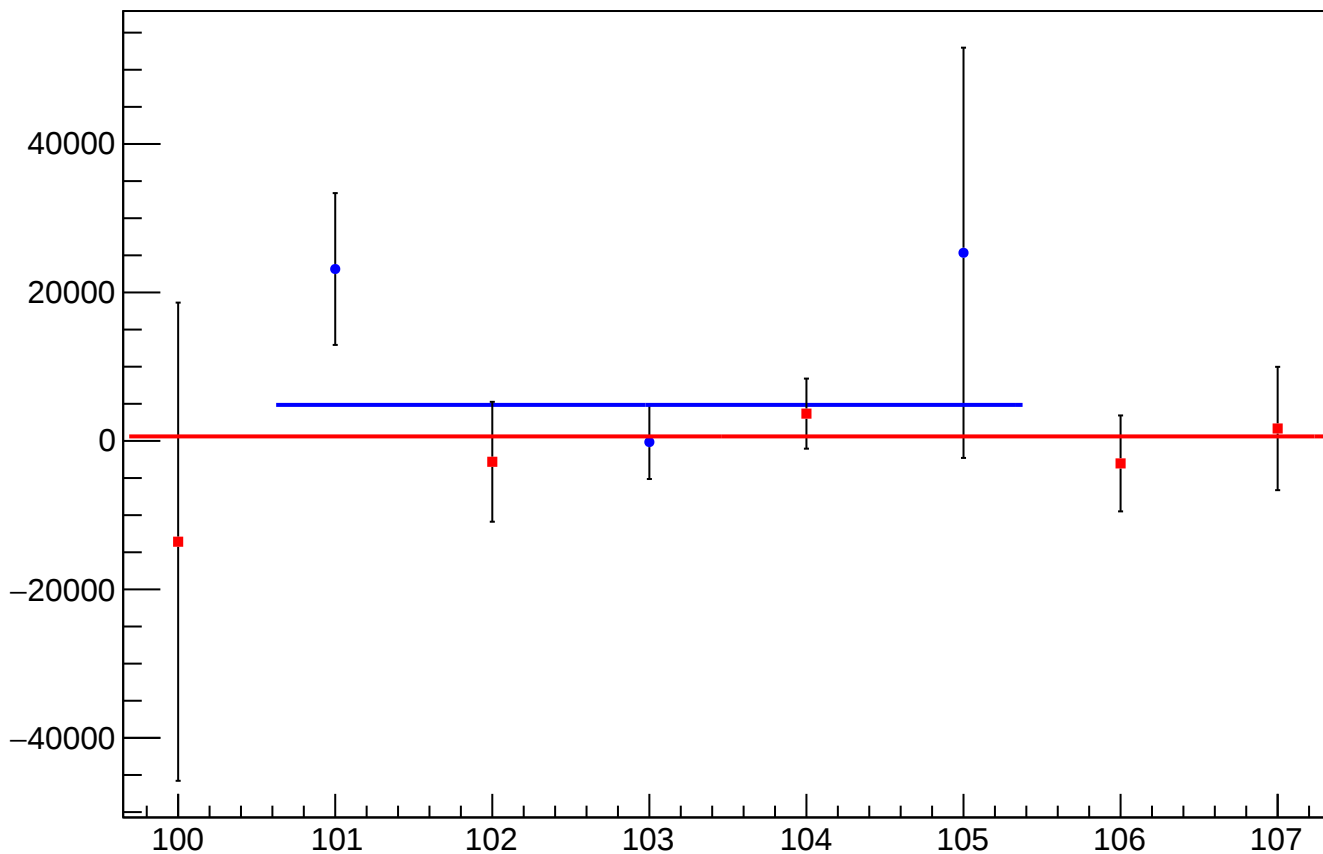
Right Out: 2906.454+/-1.681  $\chi^2/\text{NDF}$ : 385749.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3763.241+/-2.553  $\chi^2/\text{NDF}$ : 147395.8/2

2906.454+/-1.681  $\chi^2/\text{NDF}$ : 385749.6/4

# asym\_atr1l2\_avg\_mean vs slug



Right In: 4853.655+/-4419.104  $\chi^2/\text{NDF}$ : 4.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

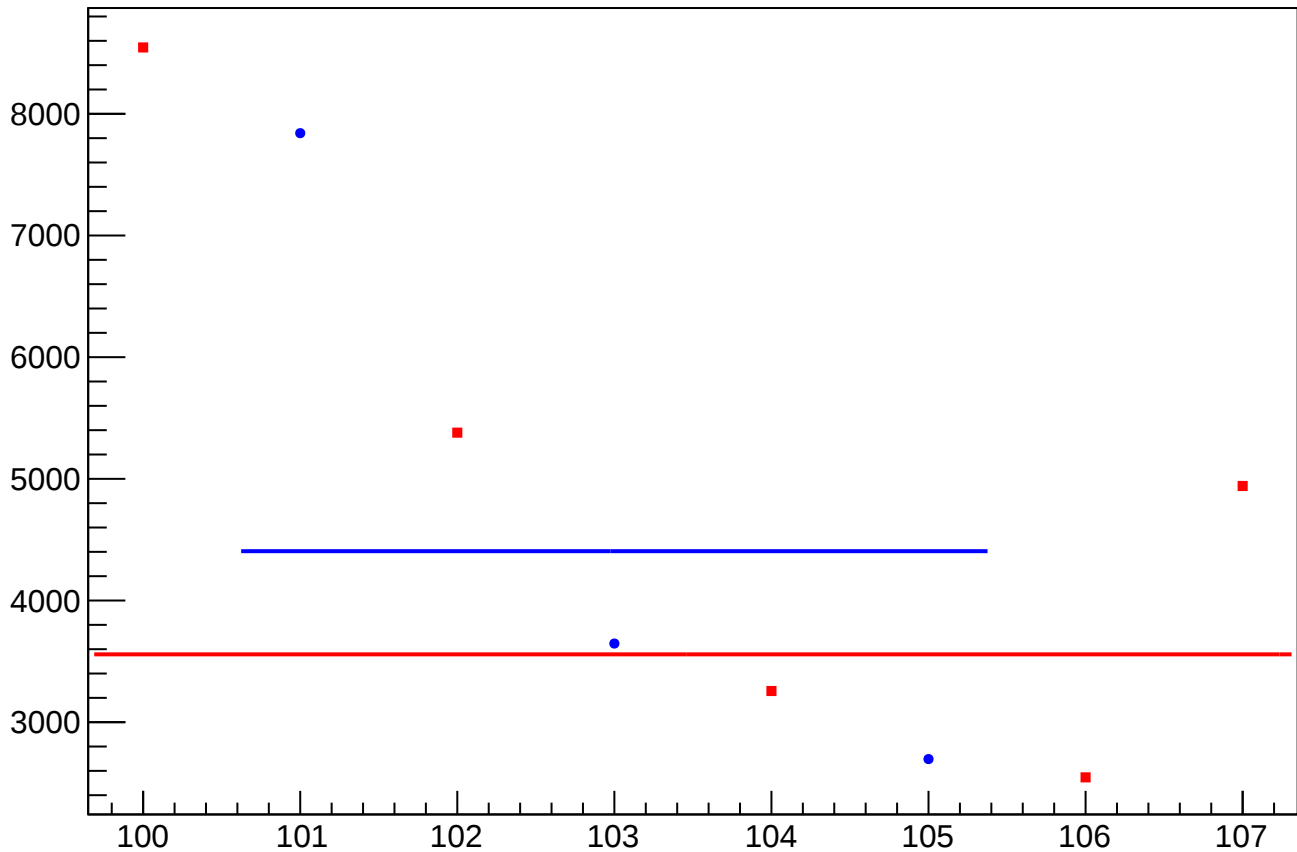
Right Out: 607.675+/-3168.361  $\chi^2/\text{NDF}$ : 1.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4853.655+/-4419.104  $\chi^2/\text{NDF}$ : 4.8/2

607.675+/-3168.361  $\chi^2/\text{NDF}$ : 1.1/4

# asym\_atr1l2\_avg\_rms vs slug



Right In: 4405.496+/-3.125  $\chi^2/\text{NDF}$ : 279908.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

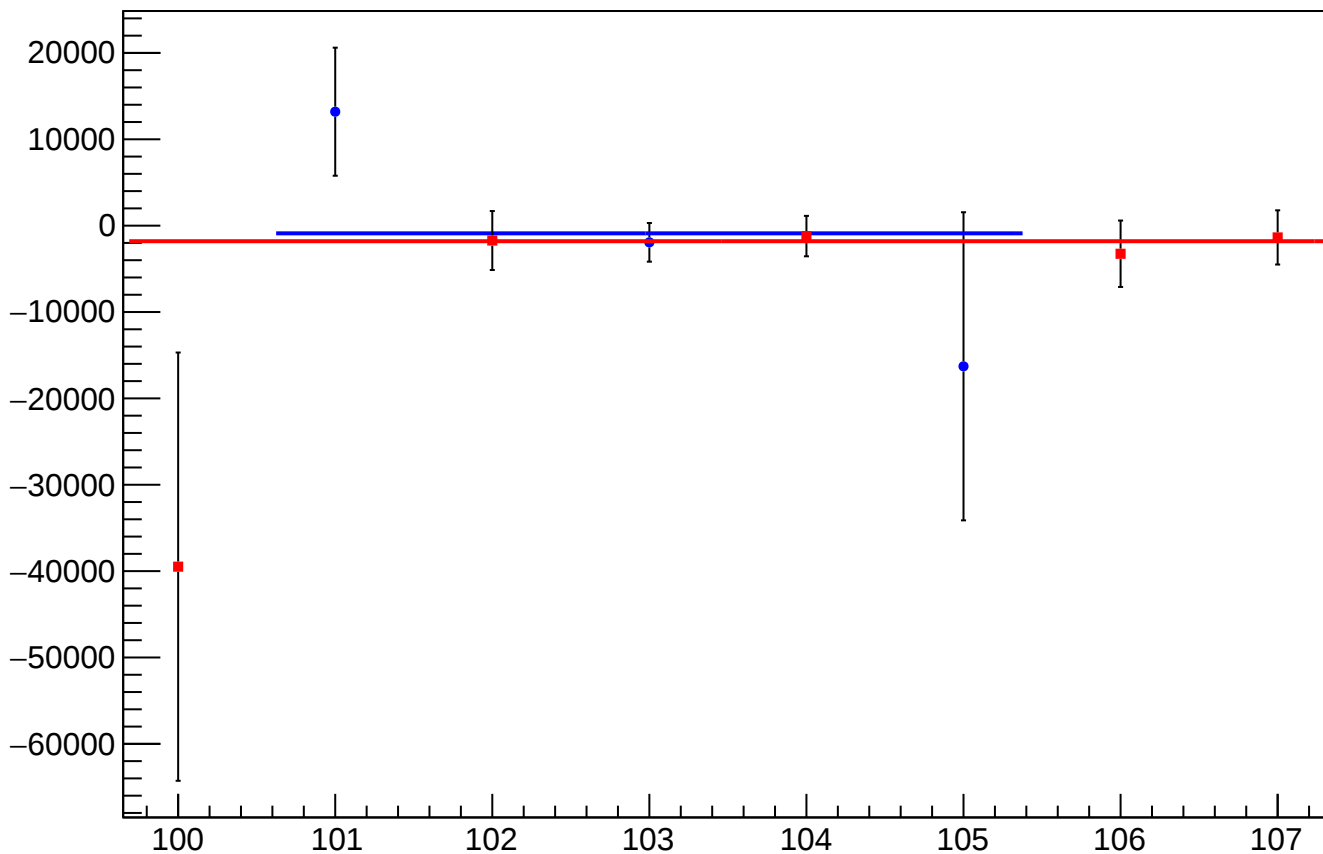
4405.496+/-3.125  $\chi^2/\text{NDF}$ : 279908.8/2

Right Out: 3557.535+/-2.089  $\chi^2/\text{NDF}$ : 292906.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3557.535+/-2.089  $\chi^2/\text{NDF}$ : 292906.3/4

# reg\_asym\_atr1l2\_dd\_mean vs slug



Right In: -889.605+/-2127.913  $\chi^2/\text{NDF}$ : 4.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

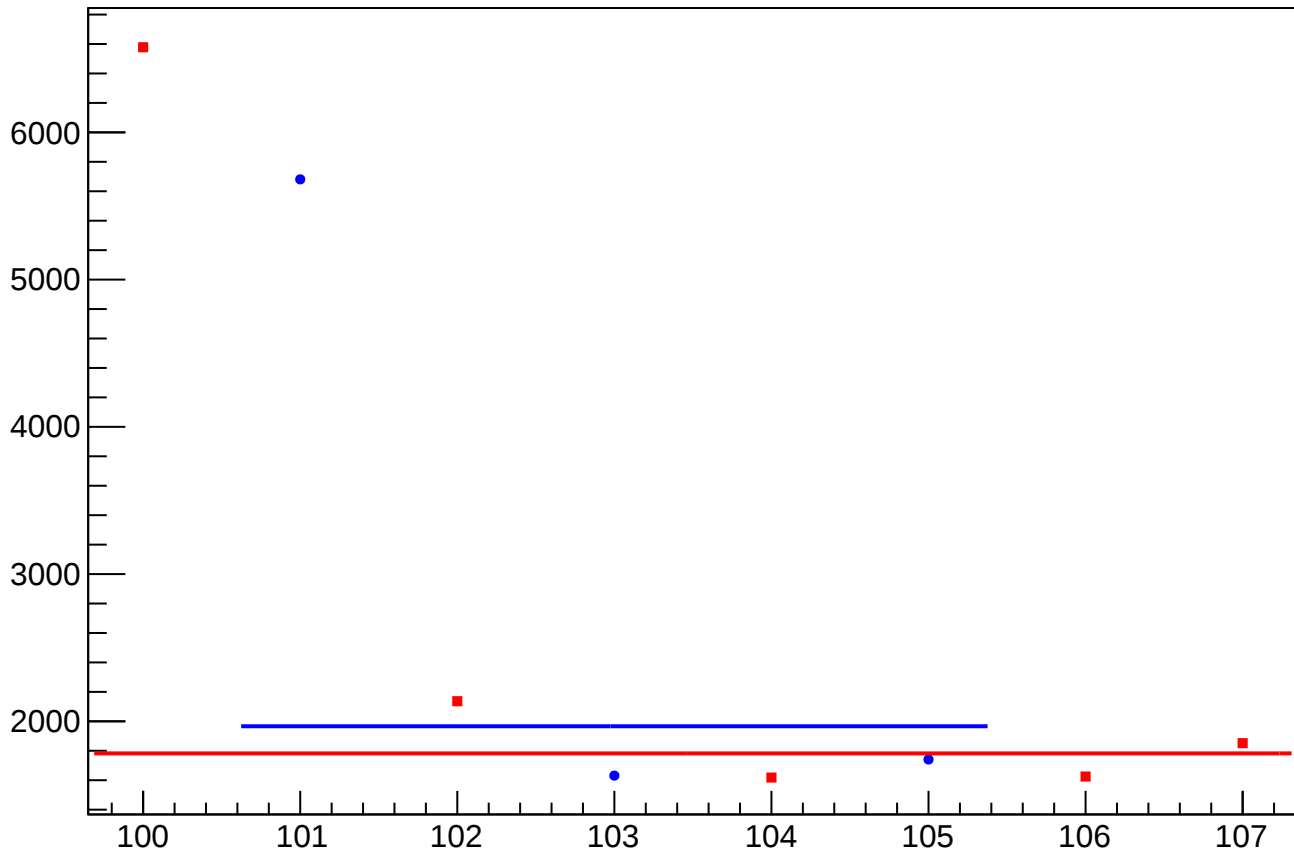
Right Out: -1801.025+/-1508.884  $\chi^2/\text{NDF}$ : 2.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-889.605+/-2127.913  $\chi^2/\text{NDF}$ : 4.6/2

-1801.025+/-1508.884  $\chi^2/\text{NDF}$ : 2.5/4

# reg\_asym\_atr1l2\_dd\_rms vs slug



Right In: 1966.514+/-1.505  $\chi^2/\text{NDF}$ : 547149.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

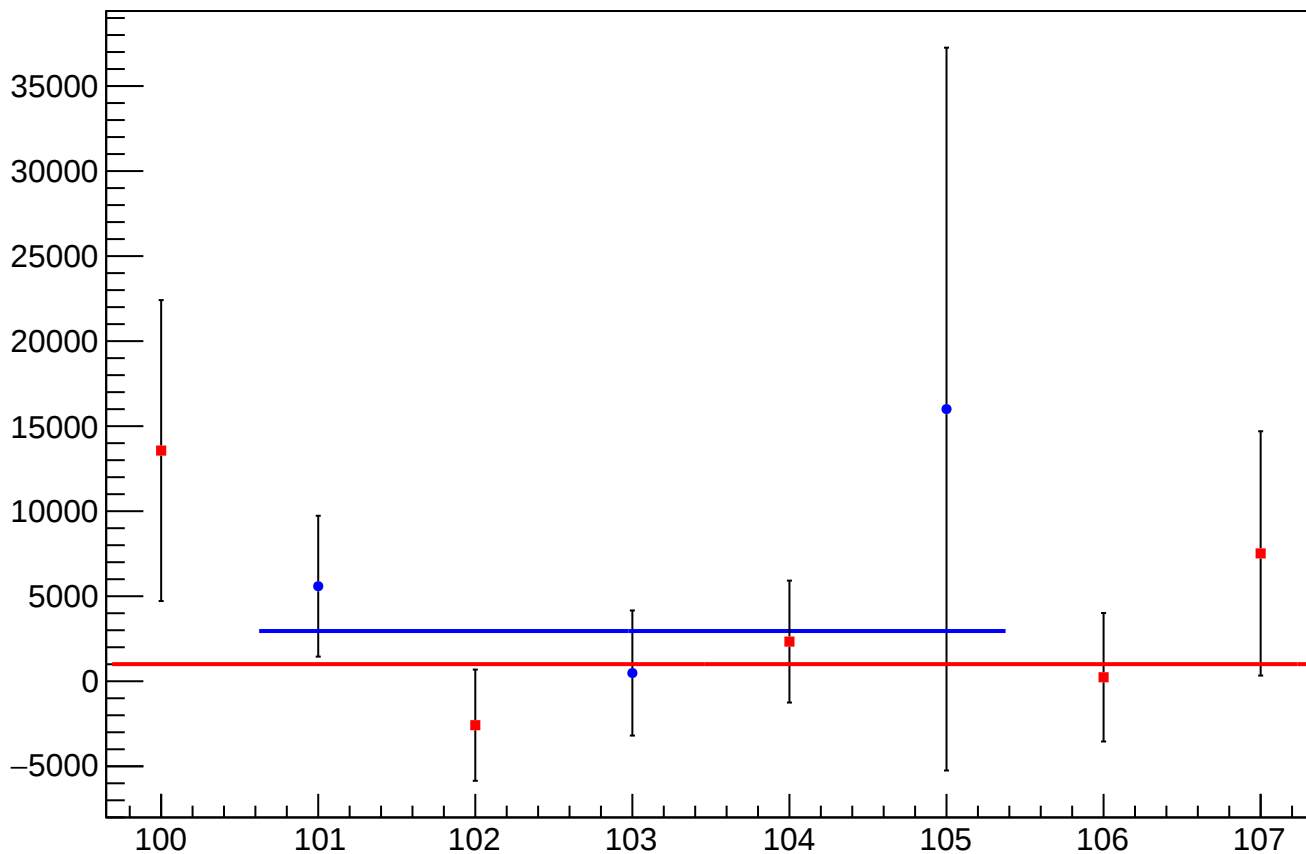
1966.514+/-1.505  $\chi^2/\text{NDF}$ : 547149.3/2

Right Out: 1782.249+/-1.033  $\chi^2/\text{NDF}$ : 111997.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1782.249+/-1.033  $\chi^2/\text{NDF}$ : 111997.6/4

# asym\_atr1l2\_dd\_correction\_mean vs slug



Right In: 2954.023 $\pm$ 2727.345  $\chi^2$ /NDF: 1.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

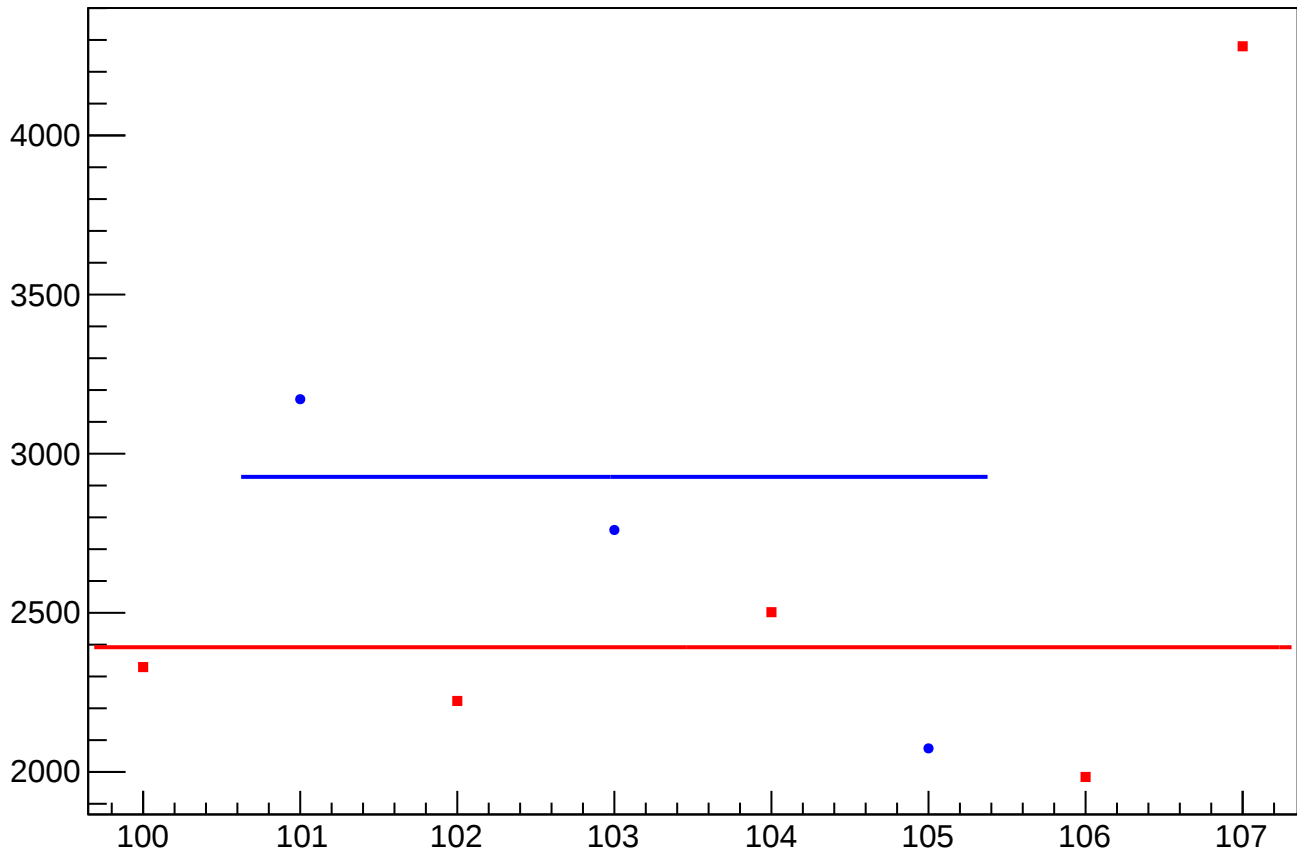
Right Out: 1006.607 $\pm$ 1911.840  $\chi^2$ /NDF: 4.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2954.023 $\pm$ 2727.345  $\chi^2$ /NDF: 1.2/2

1006.607 $\pm$ 1911.840  $\chi^2$ /NDF: 4.2/4

# asym\_atr1l2\_dd\_correction\_rms vs slug



Right In: 2927.230+/-1.929  $\chi^2/\text{NDF}$ : 14286.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

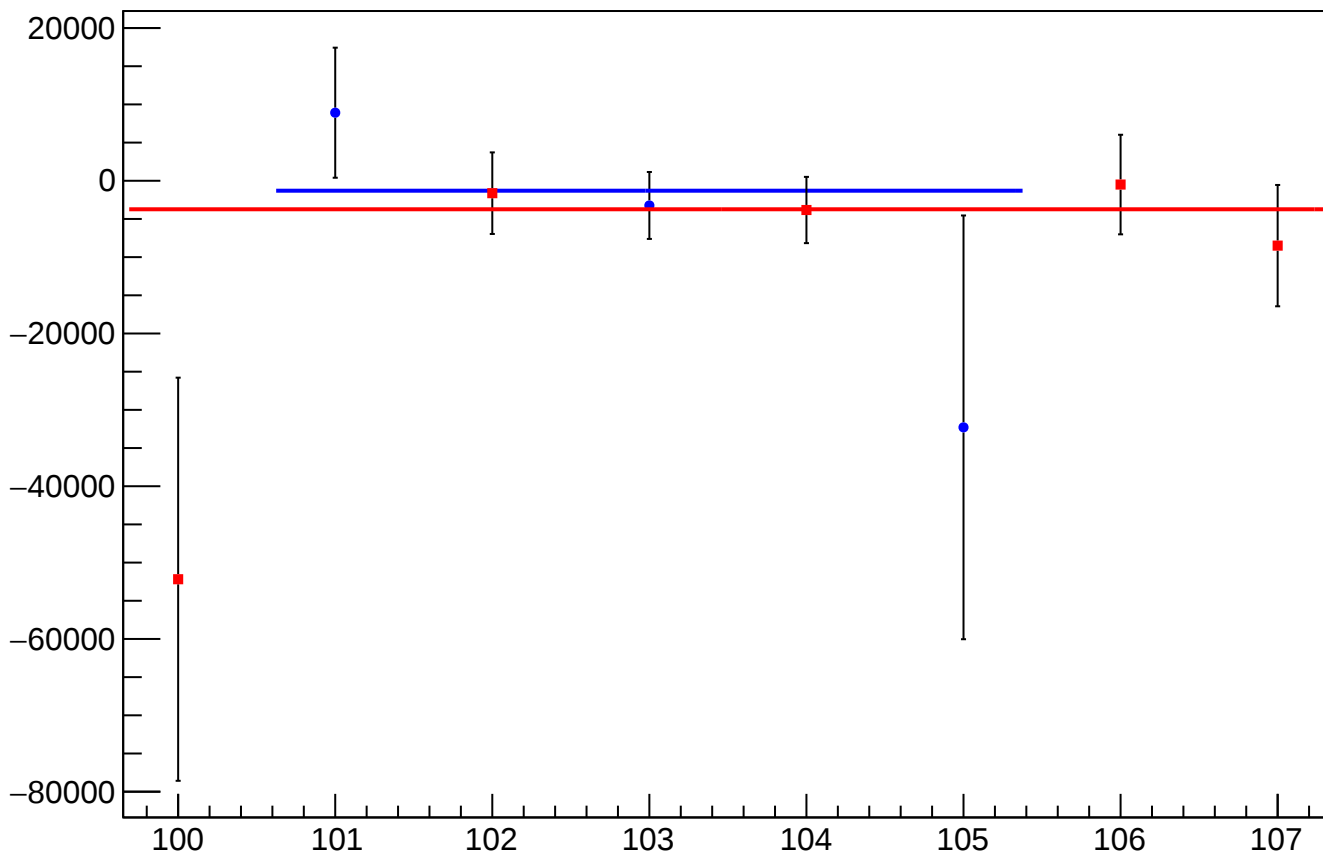
2927.230+/-1.929  $\chi^2/\text{NDF}$ : 14286.4/2

Right Out: 2391.926+/-1.352  $\chi^2/\text{NDF}$ : 168799.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2391.926+/-1.352  $\chi^2/\text{NDF}$ : 168799.0/4

# asym\_atr1l2\_dd\_mean vs slug



Right In: -1300.791+/-3858.847  $\chi^2$ /NDF: 2.9/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

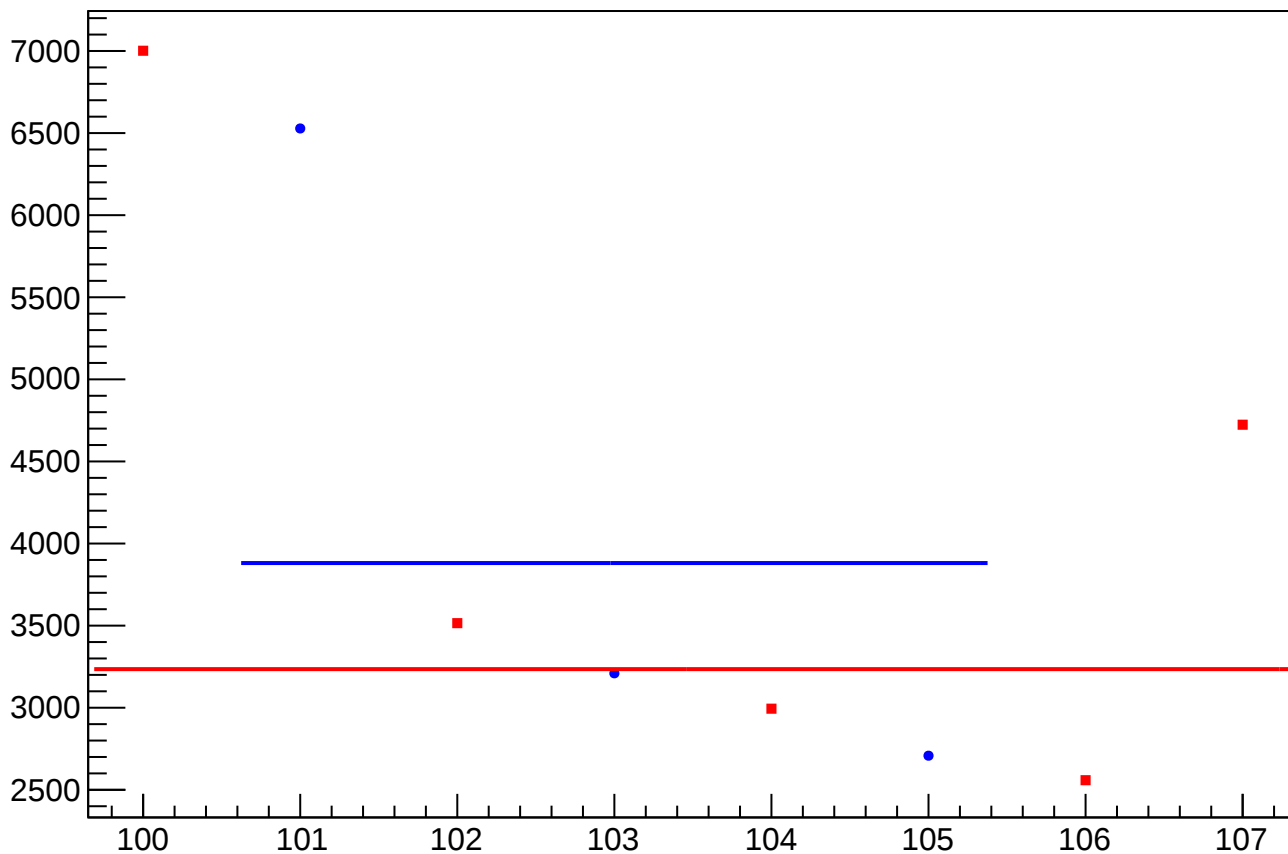
Right Out: -3732.434+/-2784.389  $\chi^2$ /NDF: 4.1/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1300.791+/-3858.847  $\chi^2$ /NDF: 2.9/2

-3732.434+/-2784.389  $\chi^2$ /NDF: 4.1/4

# asym\_atr1l2\_dd\_rms vs slug



Right In: 3881.183+/-2.729  $\chi^2/\text{NDF}$ : 243756.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

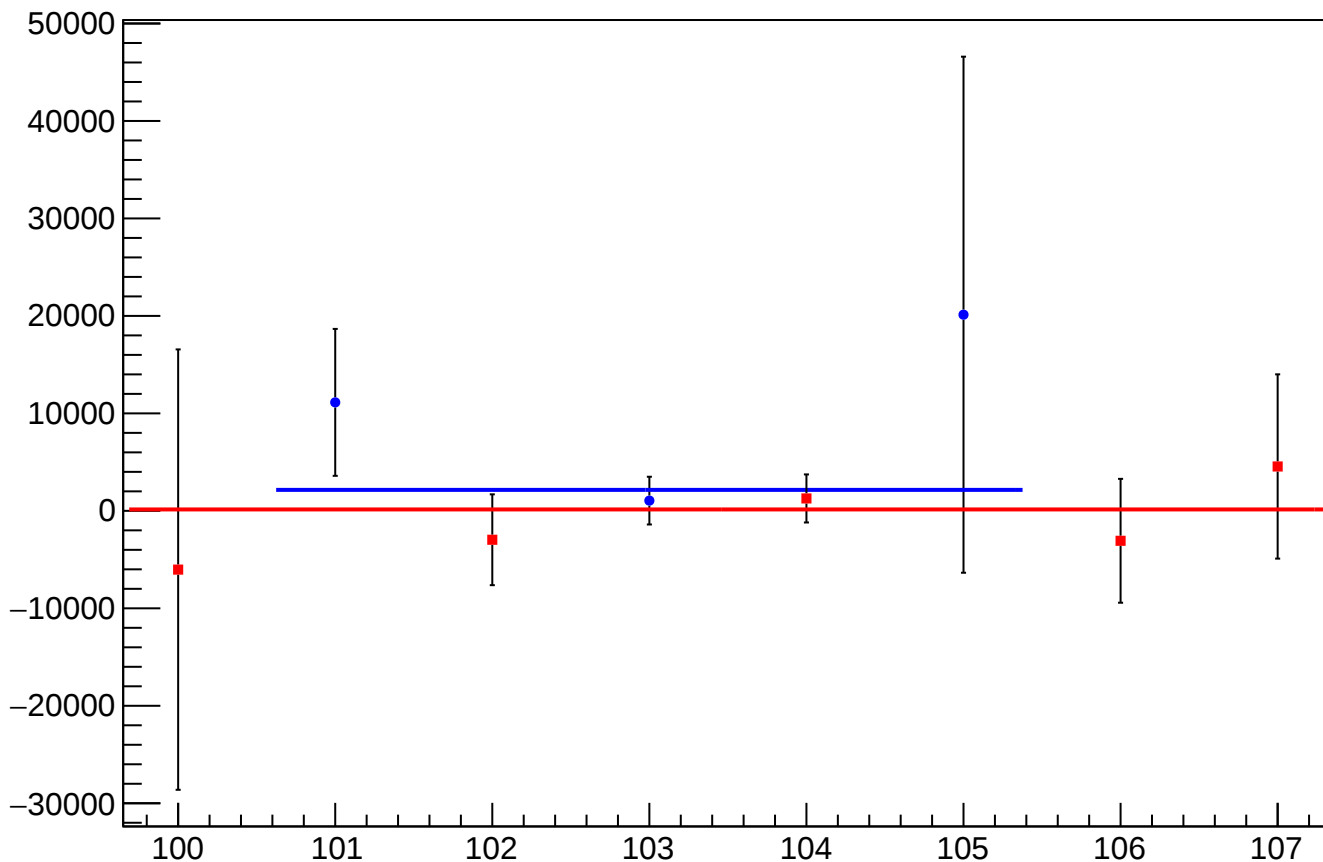
3881.183+/-2.729  $\chi^2/\text{NDF}$ : 243756.6/2

Right Out: 3235.091+/-1.864  $\chi^2/\text{NDF}$ : 157807.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3235.091+/-1.864  $\chi^2/\text{NDF}$ : 157807.1/4

reg\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs slug



Right In: 2151.155+/-2319.945  $\chi^2/\text{NDF}$ : 2.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

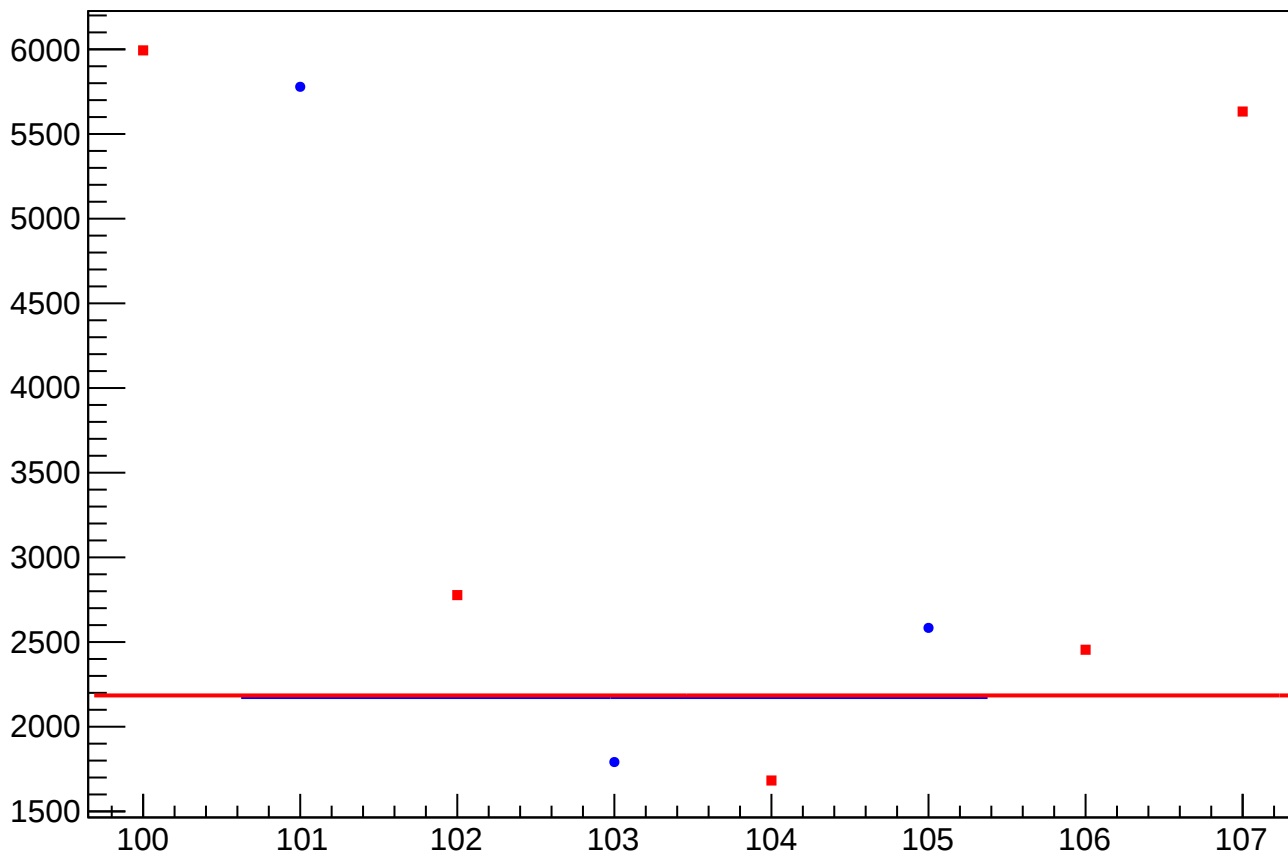
Right Out: 143.990+/-2006.062  $\chi^2/\text{NDF}$ : 1.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2151.155+/-2319.945  $\chi^2/\text{NDF}$ : 2.1/2

143.990+/-2006.062  $\chi^2/\text{NDF}$ : 1.2/4

# reg\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs slug



Right In: 2175.283+/-1.640  $\chi^2/\text{NDF}$ : 506836.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

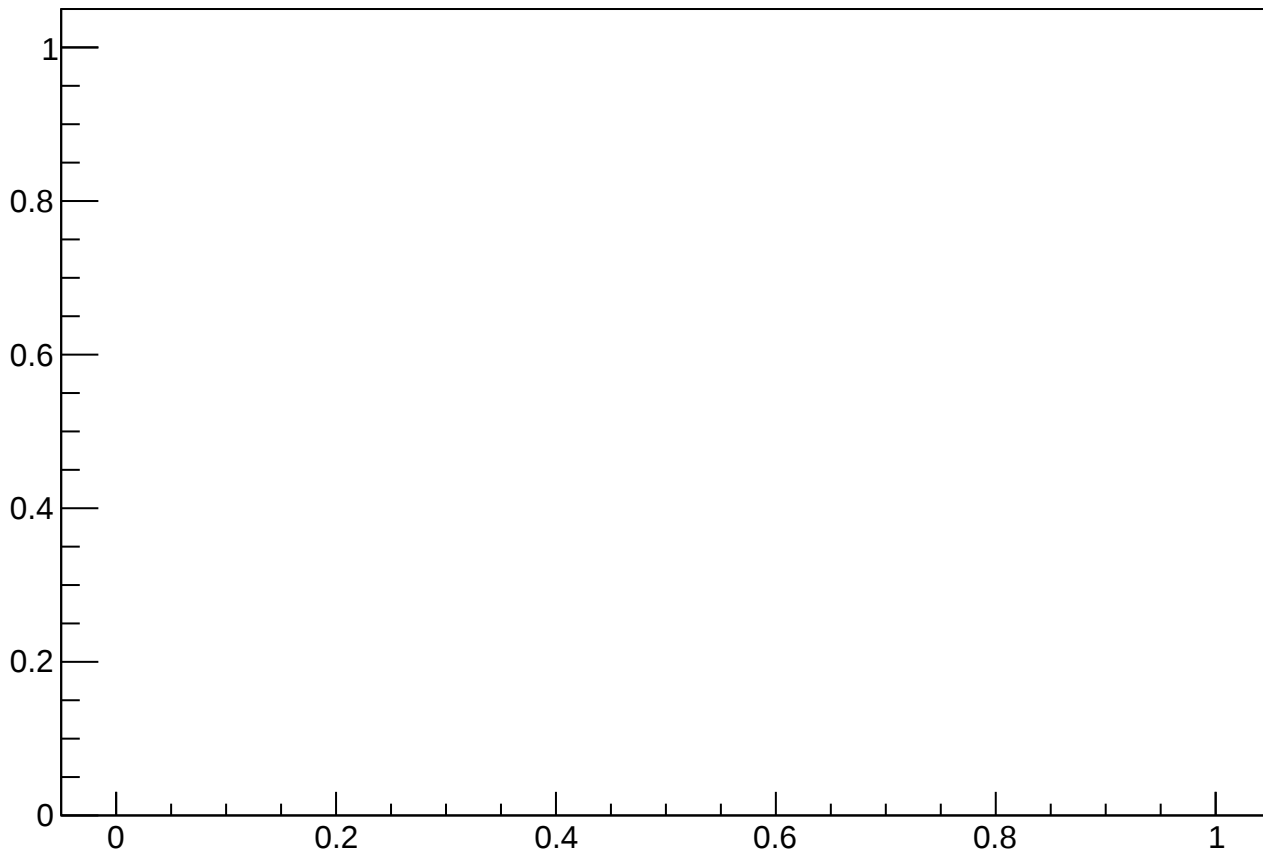
Right Out: 2184.717+/-1.392  $\chi^2/\text{NDF}$ : 443320.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2175.283+/-1.640  $\chi^2/\text{NDF}$ : 506836.9/2

2184.717+/-1.392  $\chi^2/\text{NDF}$ : 443320.3/4

asym\_atl\_avg\_atr\_avg\_avg\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

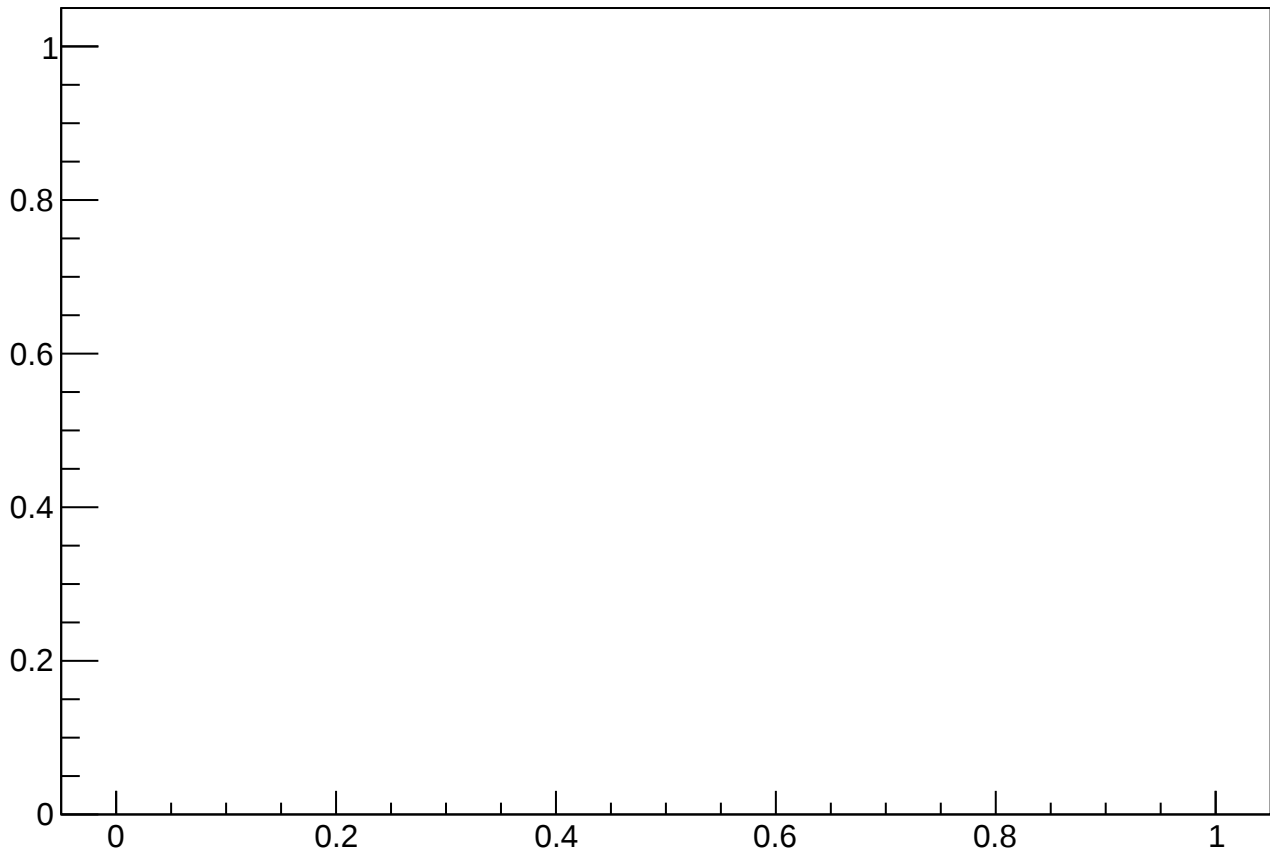
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

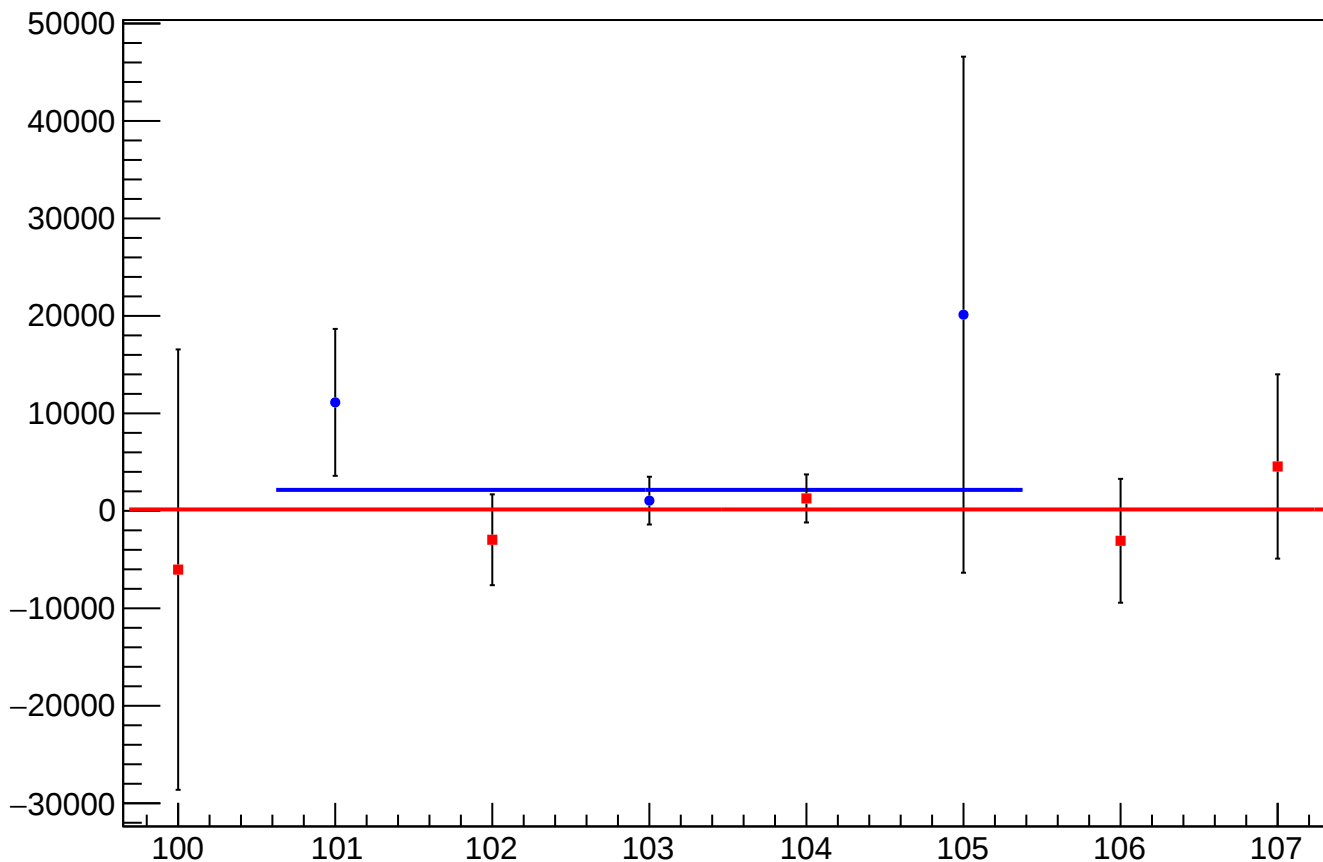
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_mean vs slug



Right In: 2151.155+/-2319.945  $\chi^2/\text{NDF}$ : 2.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

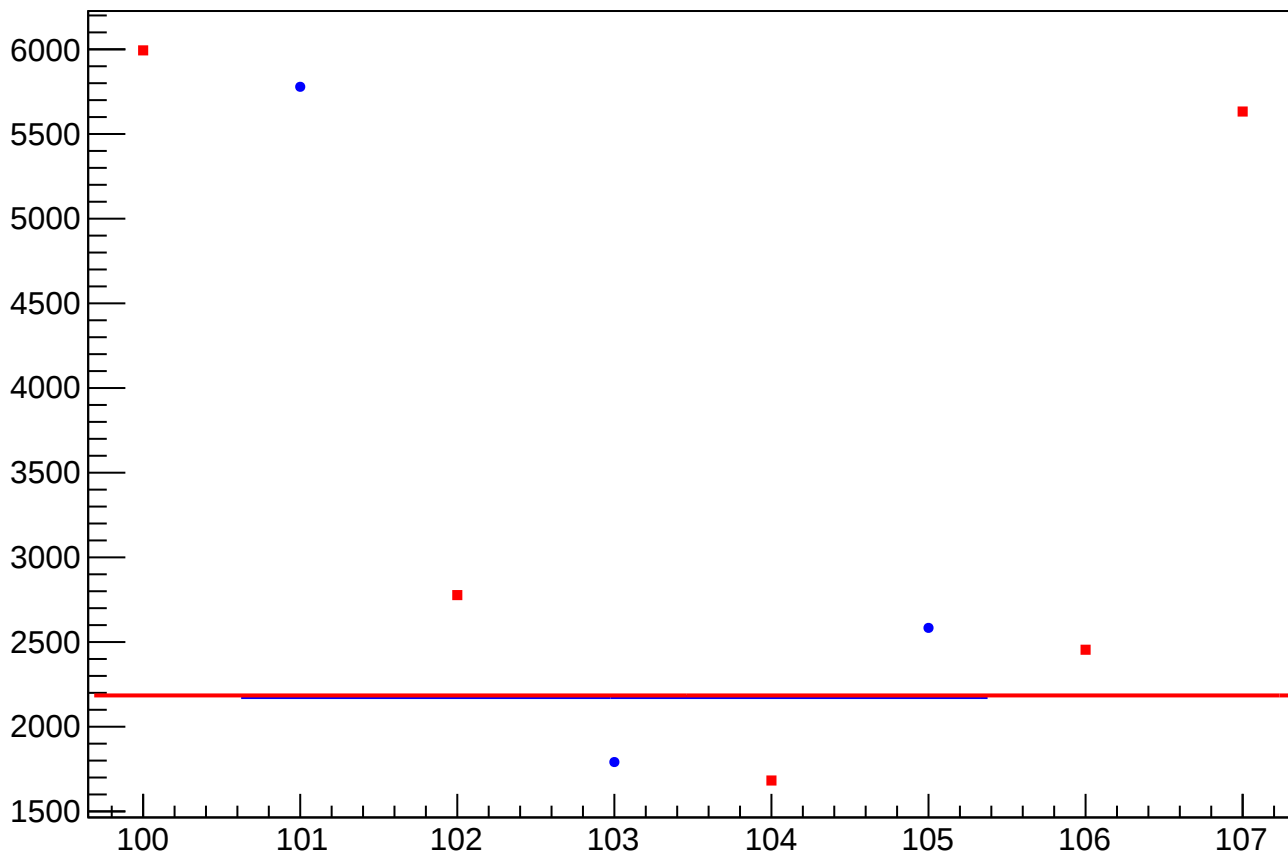
Right Out: 143.990+/-2006.062  $\chi^2/\text{NDF}$ : 1.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2151.155+/-2319.945  $\chi^2/\text{NDF}$ : 2.1/2

143.990+/-2006.062  $\chi^2/\text{NDF}$ : 1.2/4

# asym\_atl\_avg\_atr\_avg\_avg\_rms vs slug



Right In: 2175.283+/-1.640  $\chi^2/\text{NDF}$ : 506836.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

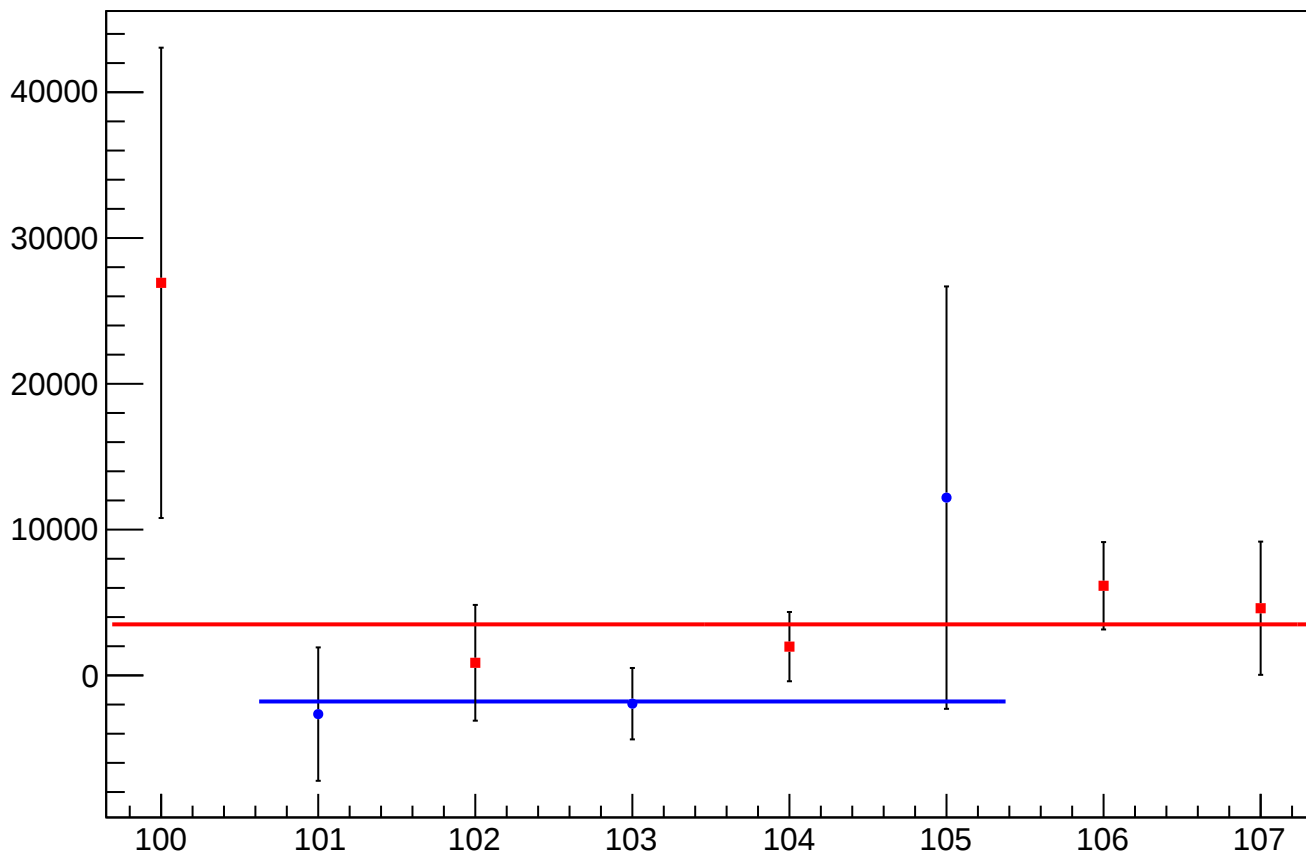
Right Out: 2184.717+/-1.392  $\chi^2/\text{NDF}$ : 443320.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2175.283+/-1.640  $\chi^2/\text{NDF}$ : 506836.9/2

2184.717+/-1.392  $\chi^2/\text{NDF}$ : 443320.3/4

reg\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs slug



Right In: -1788.994+/-2135.581  $\chi^2/\text{NDF}$ : 1.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

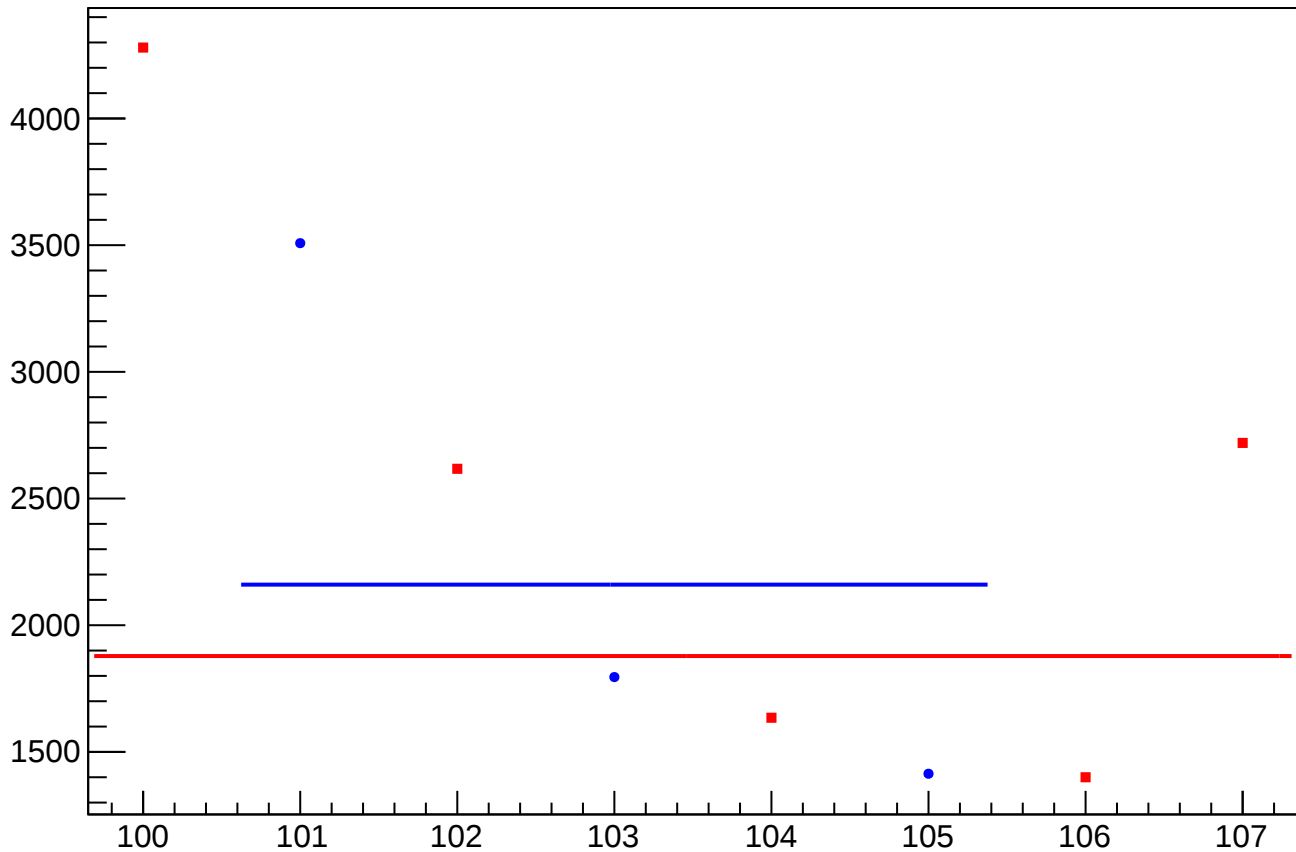
Right Out: 3500.155+/-1573.923  $\chi^2/\text{NDF}$ : 3.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1788.994+/-2135.581  $\chi^2/\text{NDF}$ : 1.0/2

3500.155+/-1573.923  $\chi^2/\text{NDF}$ : 3.8/4

# reg\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs slug



Right In: 2160.204+/-1.510  $\chi^2/\text{NDF}$ : 223279.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

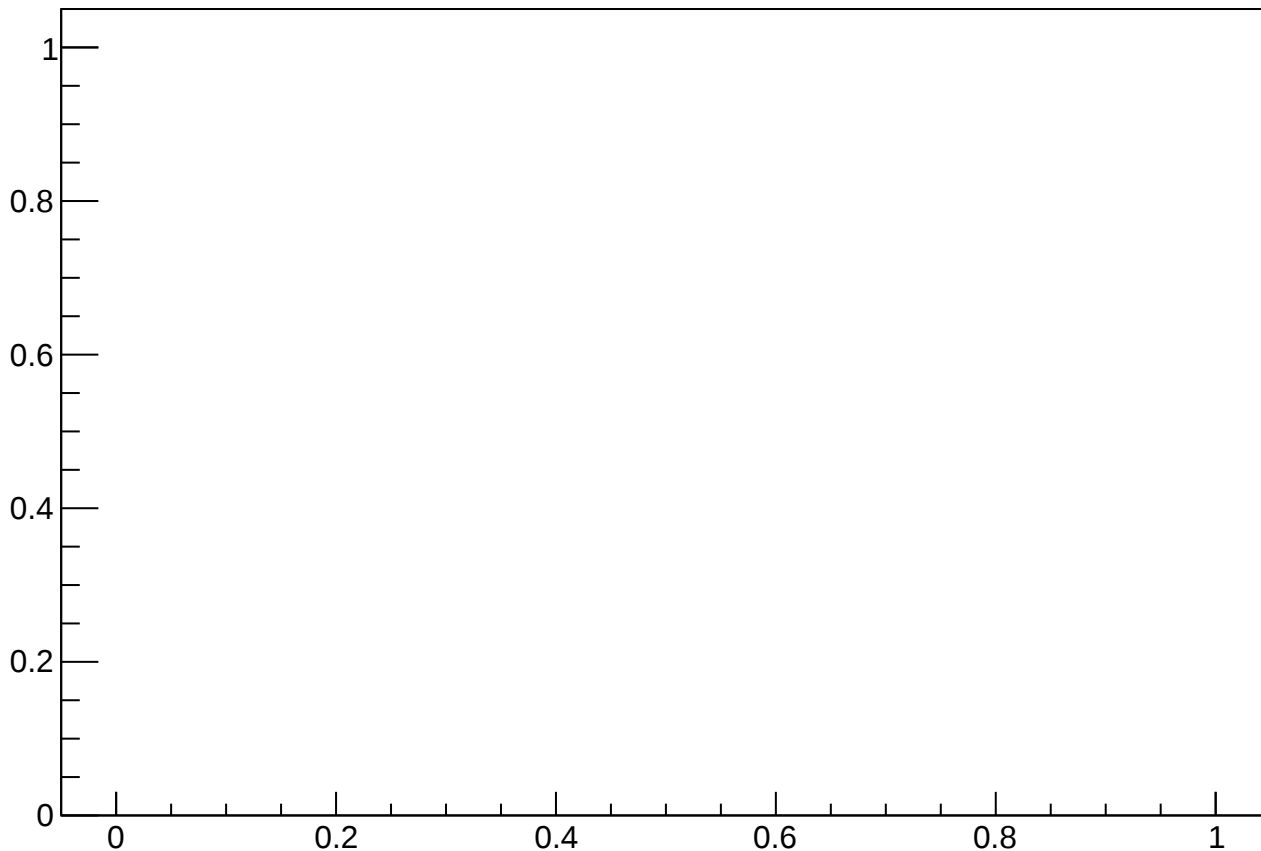
2160.204+/-1.510  $\chi^2/\text{NDF}$ : 223279.4/2

Right Out: 1878.326+/-1.113  $\chi^2/\text{NDF}$ : 253409.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1878.326+/-1.113  $\chi^2/\text{NDF}$ : 253409.0/4

asym\_atl\_avg\_atr\_avg\_dd\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

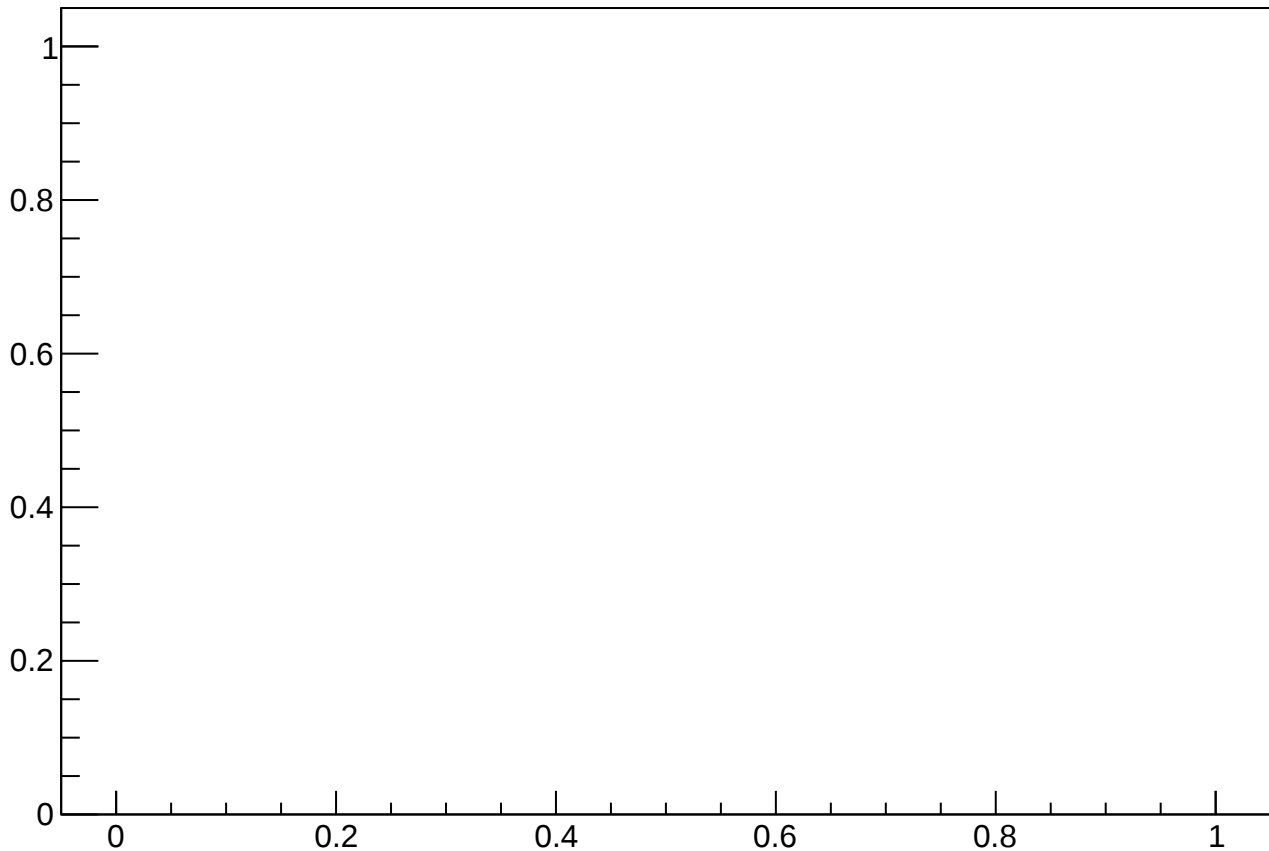
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

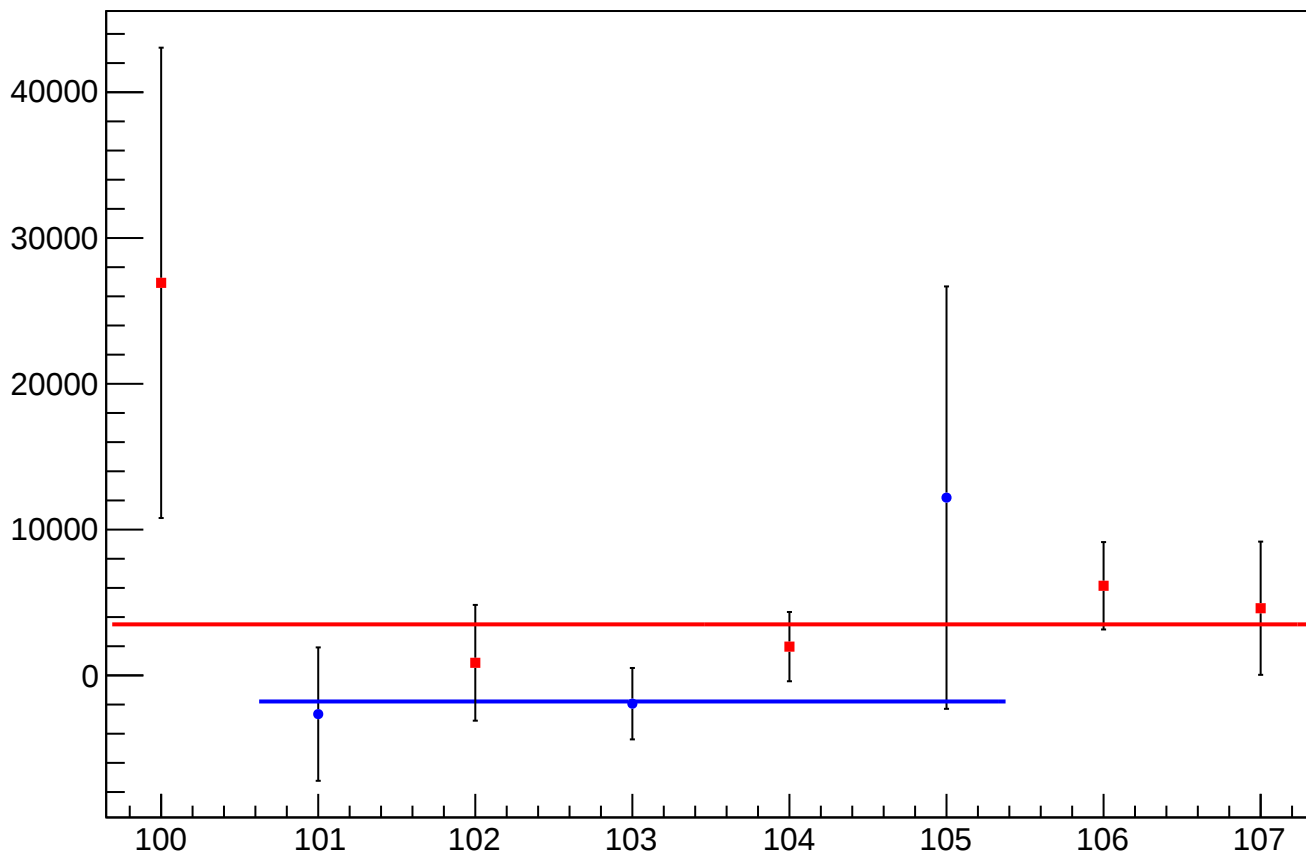
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_mean vs slug



Right In: -1788.994+/-2135.581  $\chi^2$ /NDF: 1.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

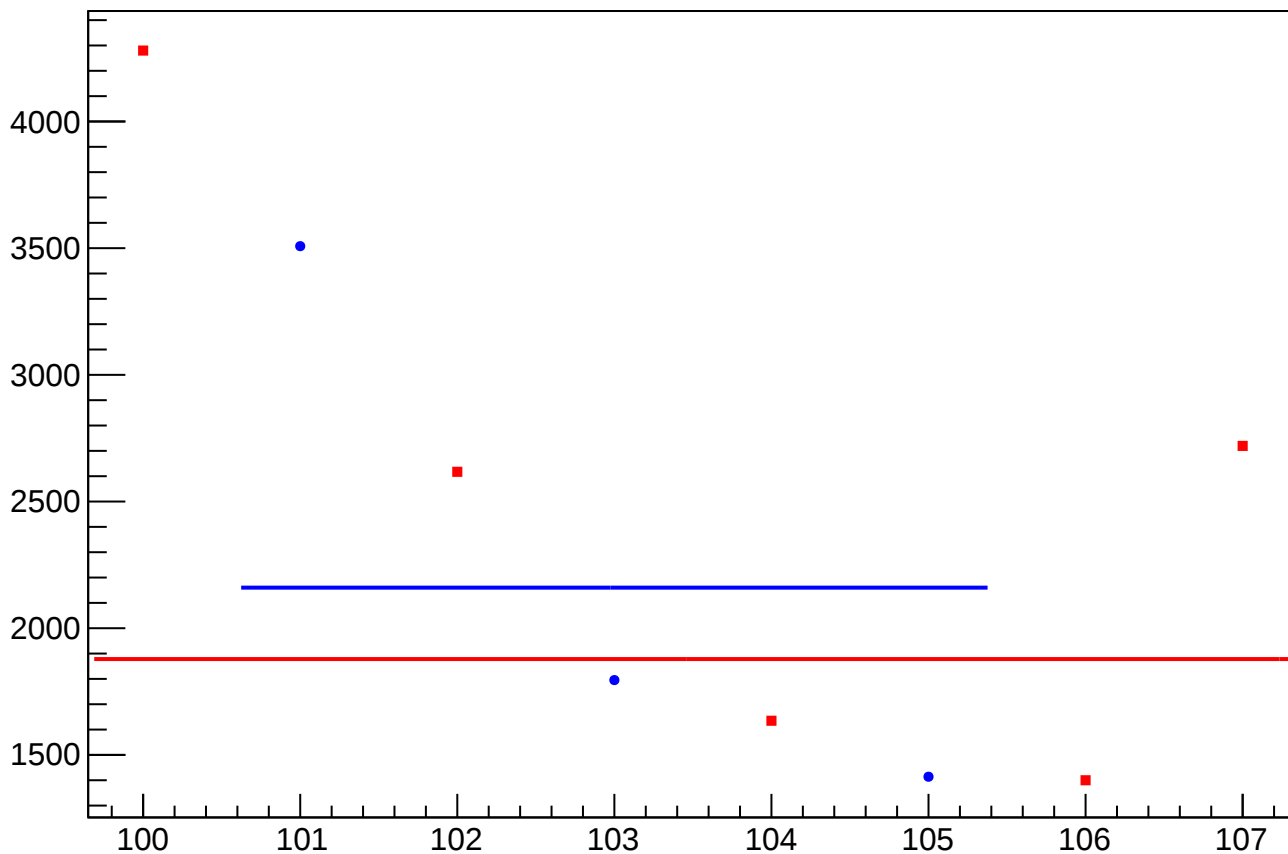
Right Out: 3500.155+/-1573.923  $\chi^2$ /NDF: 3.8/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1788.994+/-2135.581  $\chi^2$ /NDF: 1.0/2

3500.155+/-1573.923  $\chi^2$ /NDF: 3.8/4

# asym\_atl\_avg\_atr\_avg\_dd\_rms vs slug



Right In: 2160.204+/-1.510  $\chi^2/\text{NDF}$ : 223279.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

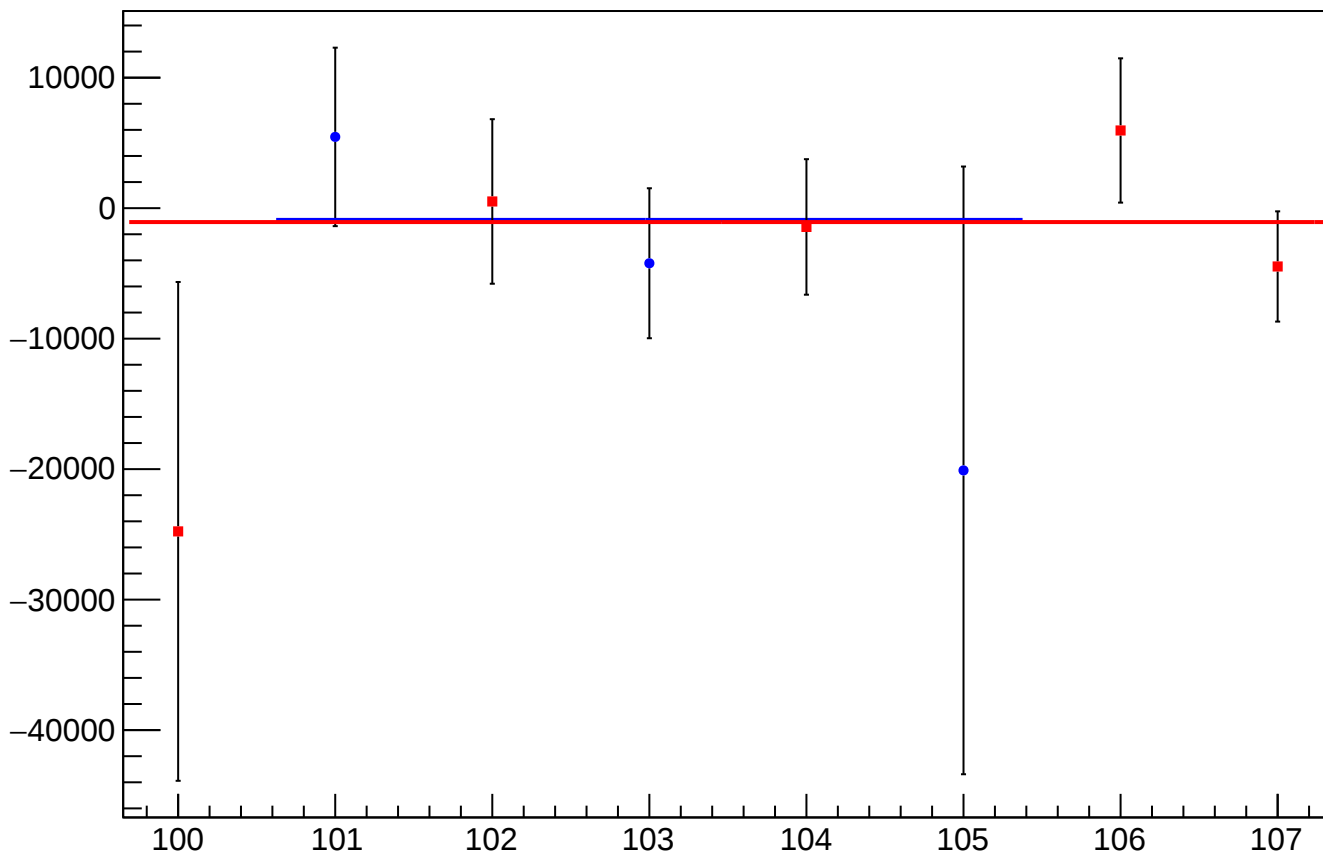
Right Out: 1878.326+/-1.113  $\chi^2/\text{NDF}$ : 253409.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2160.204+/-1.510  $\chi^2/\text{NDF}$ : 223279.4/2

1878.326+/-1.113  $\chi^2/\text{NDF}$ : 253409.0/4

reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs slug



Right In: -899.232+/-4323.218  $\chi^2/\text{NDF}$ : 1.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

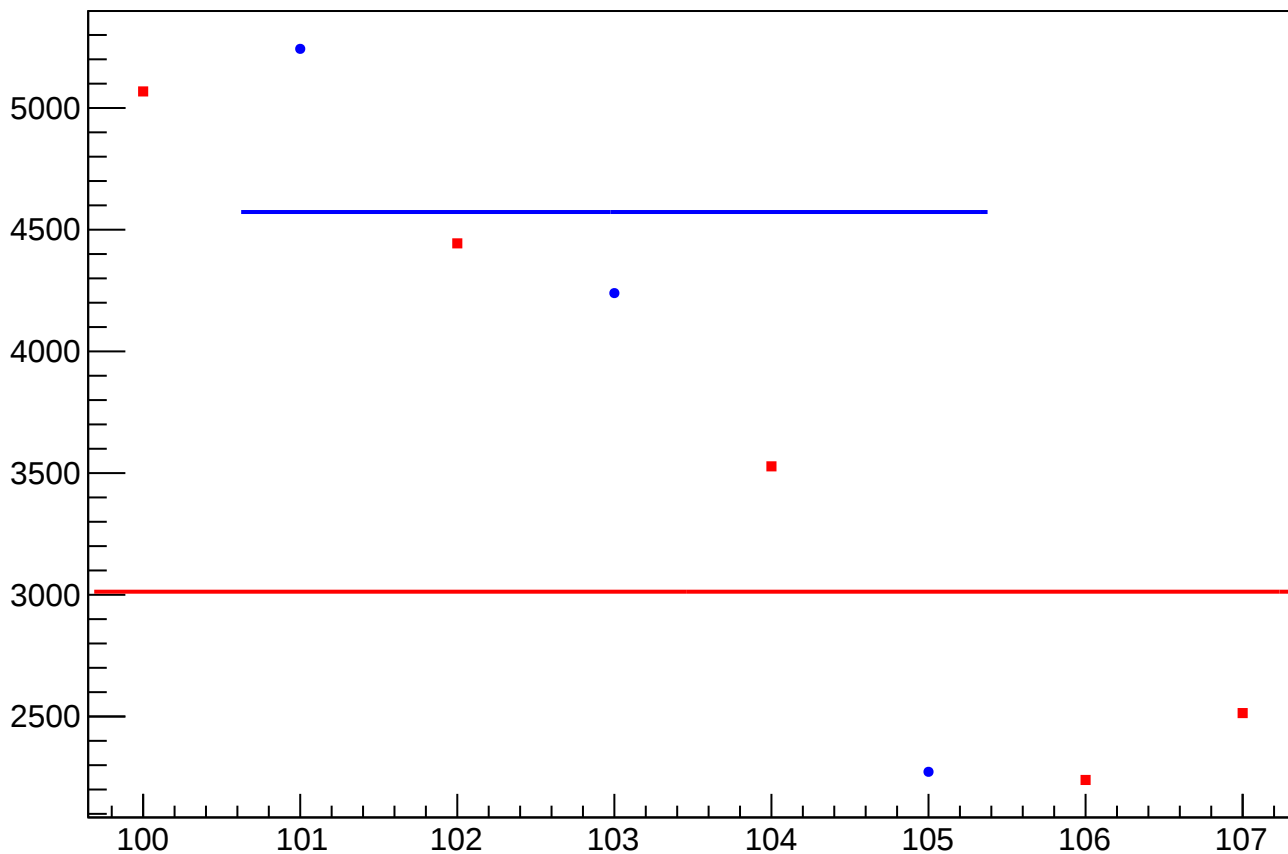
Right Out: -1065.468+/-2550.682  $\chi^2/\text{NDF}$ : 3.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-899.232+/-4323.218  $\chi^2/\text{NDF}$ : 1.9/2

-1065.468+/-2550.682  $\chi^2/\text{NDF}$ : 3.9/4

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs slug



Right In: 4572.666+/-3.057  $\chi^2/\text{NDF}$ : 45449.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

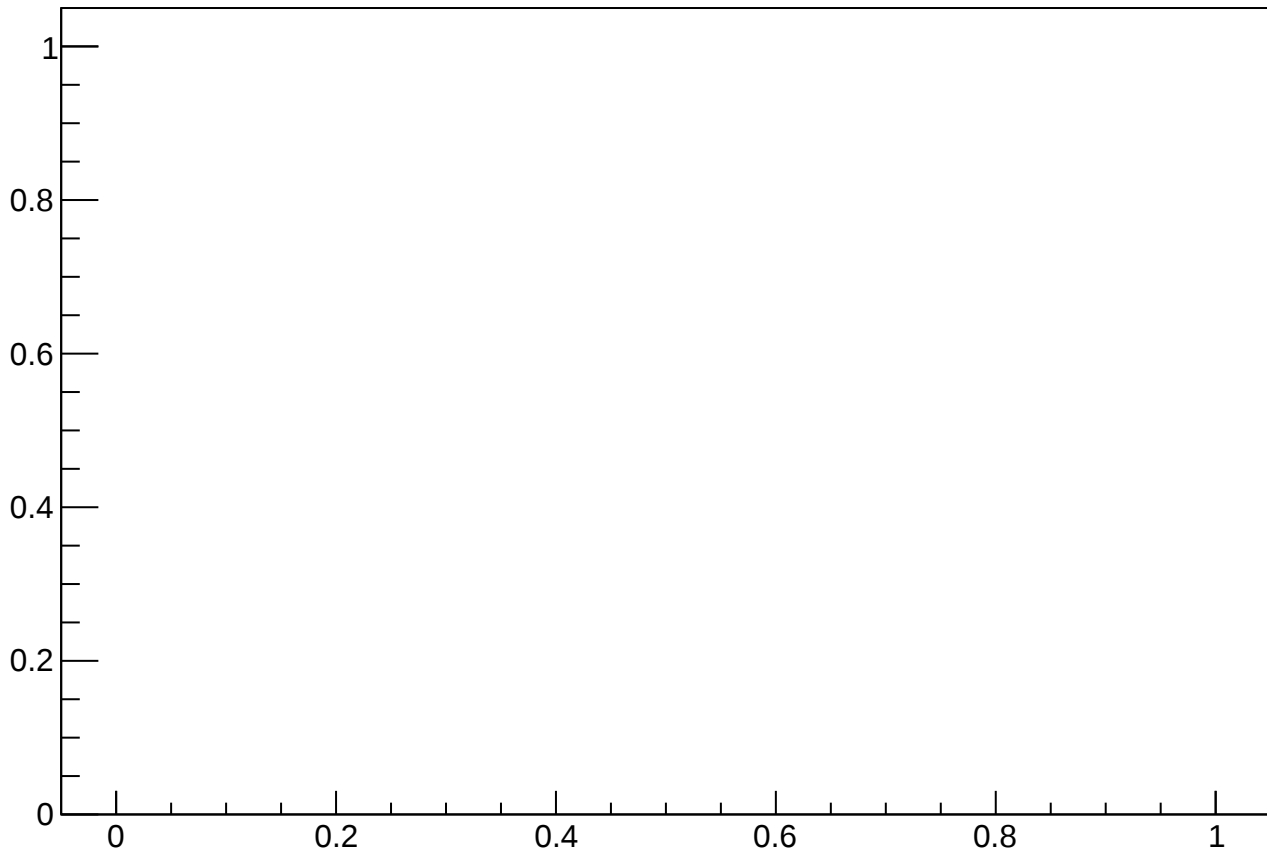
4572.666+/-3.057  $\chi^2/\text{NDF}$ : 45449.4/2

Right Out: 3012.744+/-1.749  $\chi^2/\text{NDF}$ : 224438.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3012.744+/-1.749  $\chi^2/\text{NDF}$ : 224438.9/4

asym\_atl\_dd\_atr\_dd\_avg\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

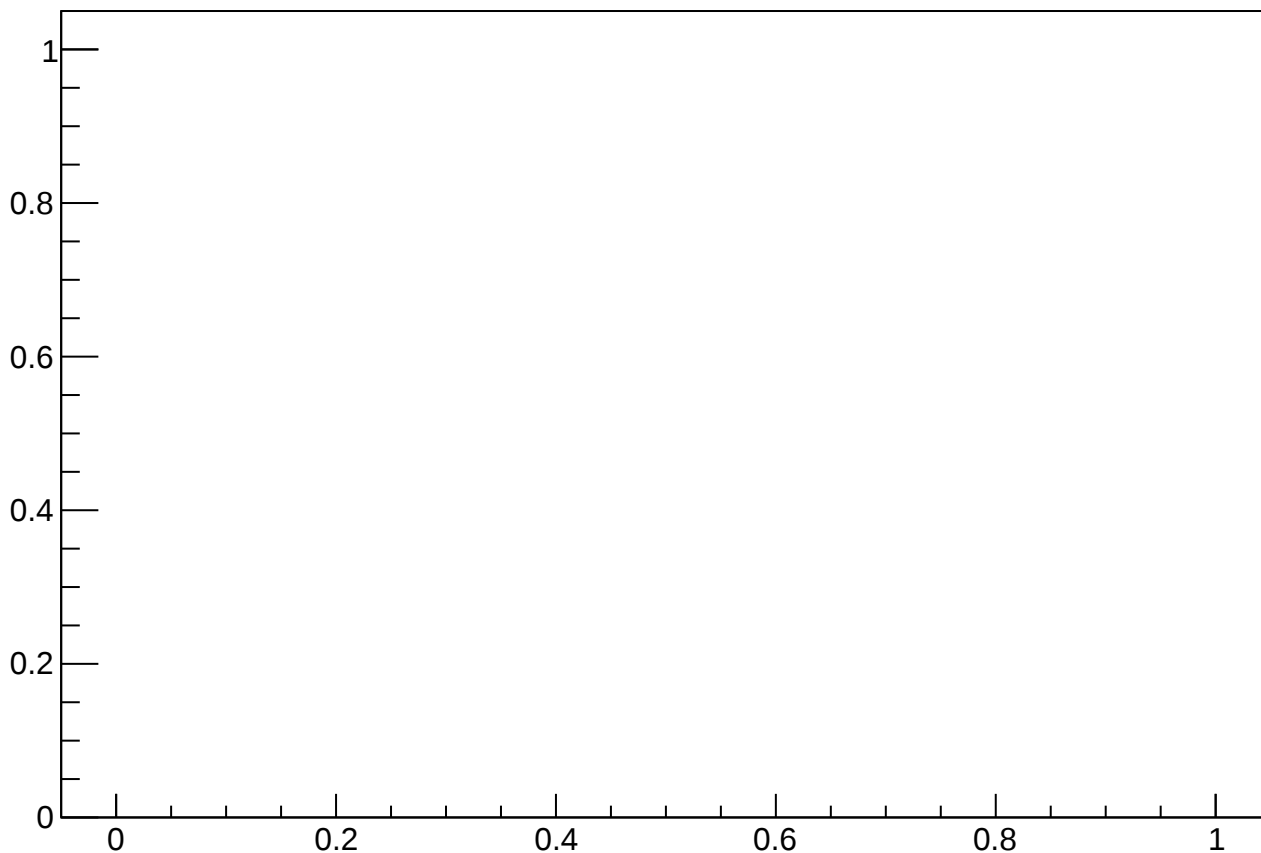
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

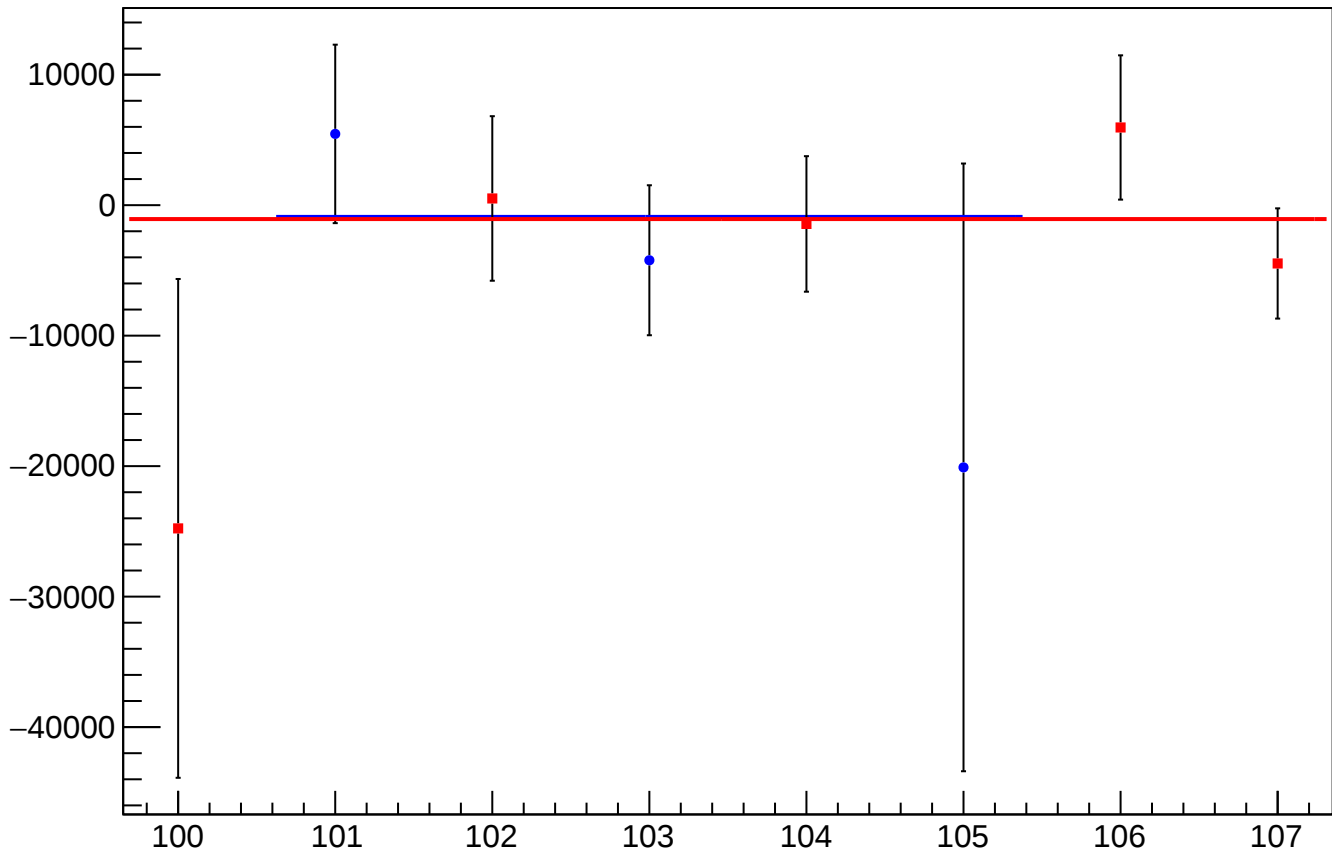
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_avg\_mean vs slug



Right In: -899.232+/-4323.218  $\chi^2/\text{NDF}$ : 1.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

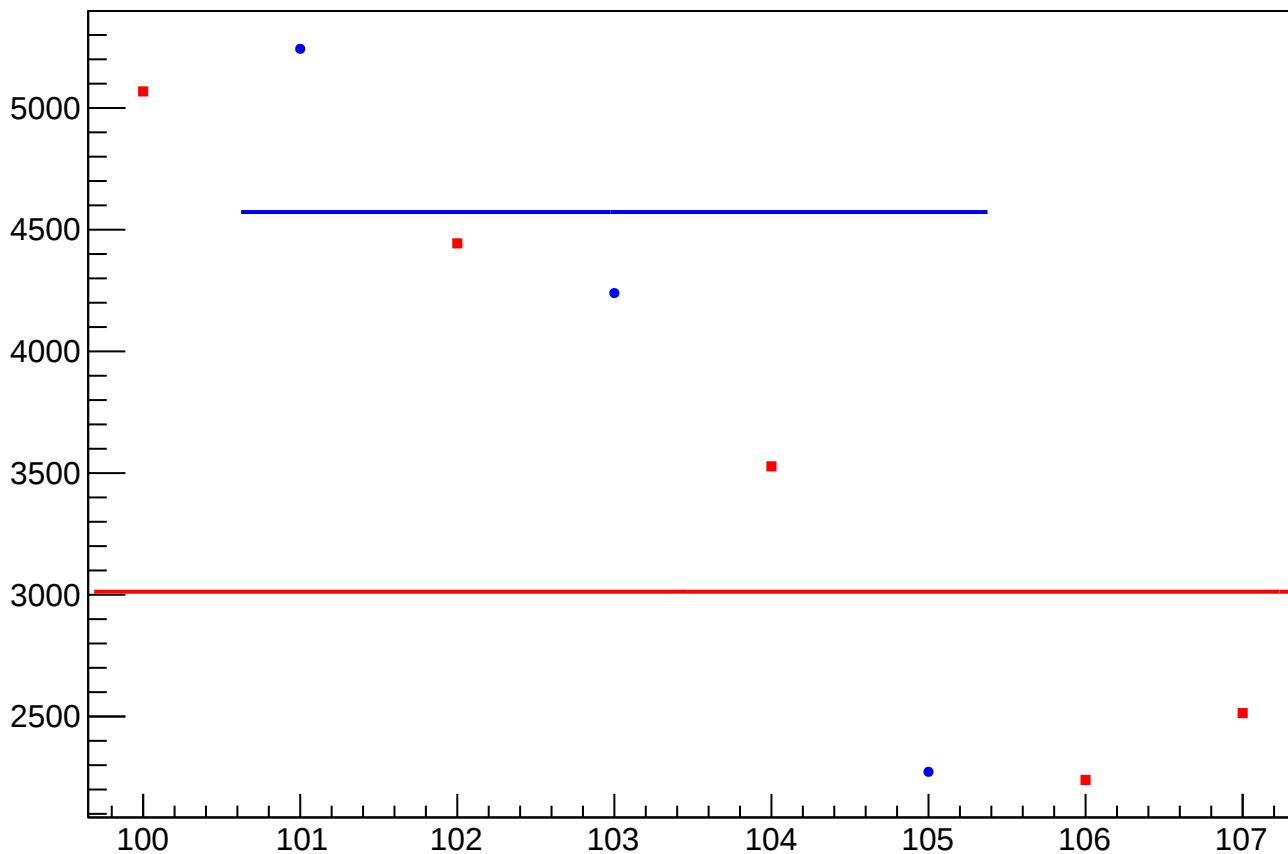
-899.232+/-4323.218  $\chi^2/\text{NDF}$ : 1.9/2

Right Out: -1065.468+/-2550.682  $\chi^2/\text{NDF}$ : 3.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1065.468+/-2550.682  $\chi^2/\text{NDF}$ : 3.9/4

# asym\_atl\_dd\_atr\_dd\_avg\_rms vs slug



Right In: 4572.666+/-3.057  $\chi^2/\text{NDF}$ : 45449.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

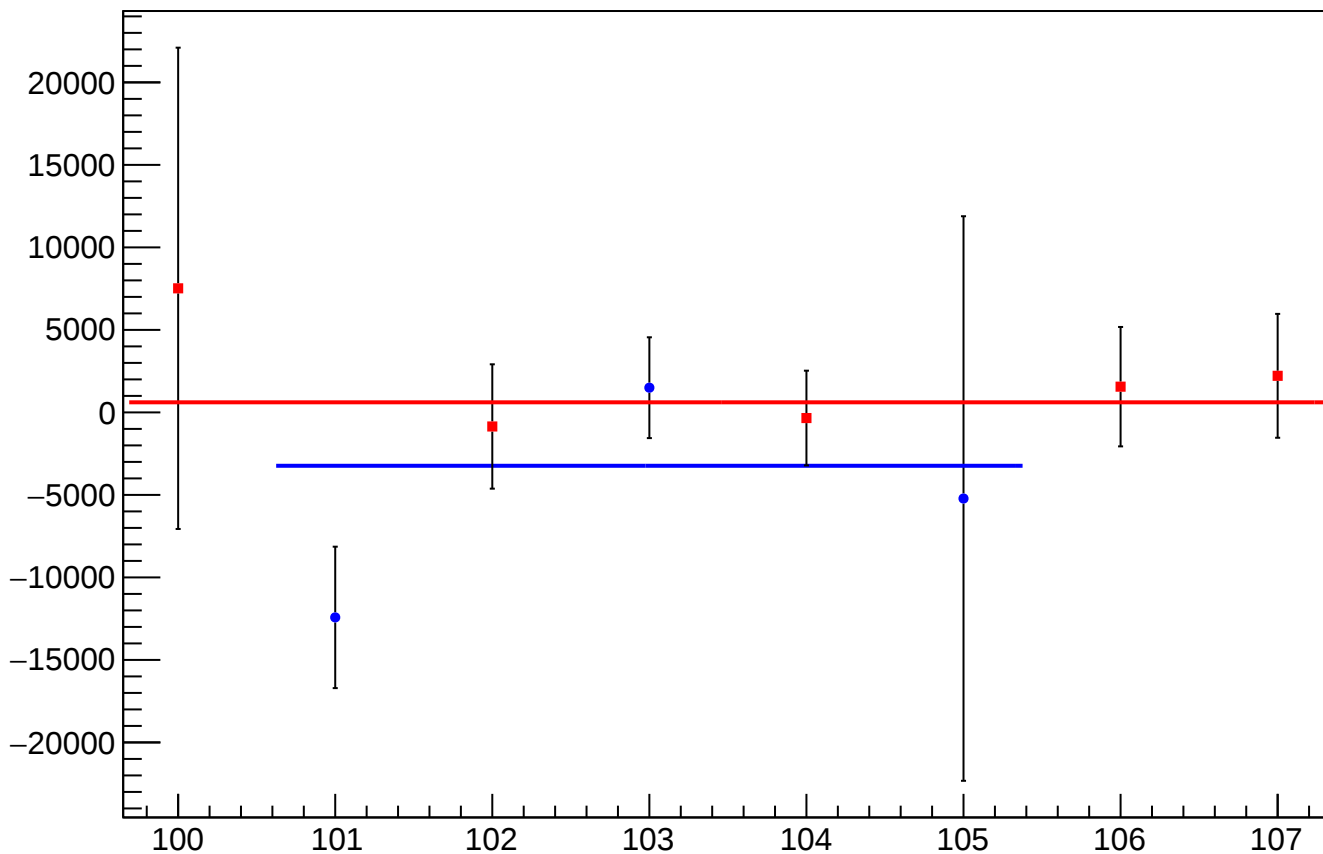
4572.666+/-3.057  $\chi^2/\text{NDF}$ : 45449.4/2

Right Out: 3012.744+/-1.749  $\chi^2/\text{NDF}$ : 224438.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3012.744+/-1.749  $\chi^2/\text{NDF}$ : 224438.9/4

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs slug



Right In: -3234.545+/-2461.491  $\chi^2/\text{NDF}$ : 7.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

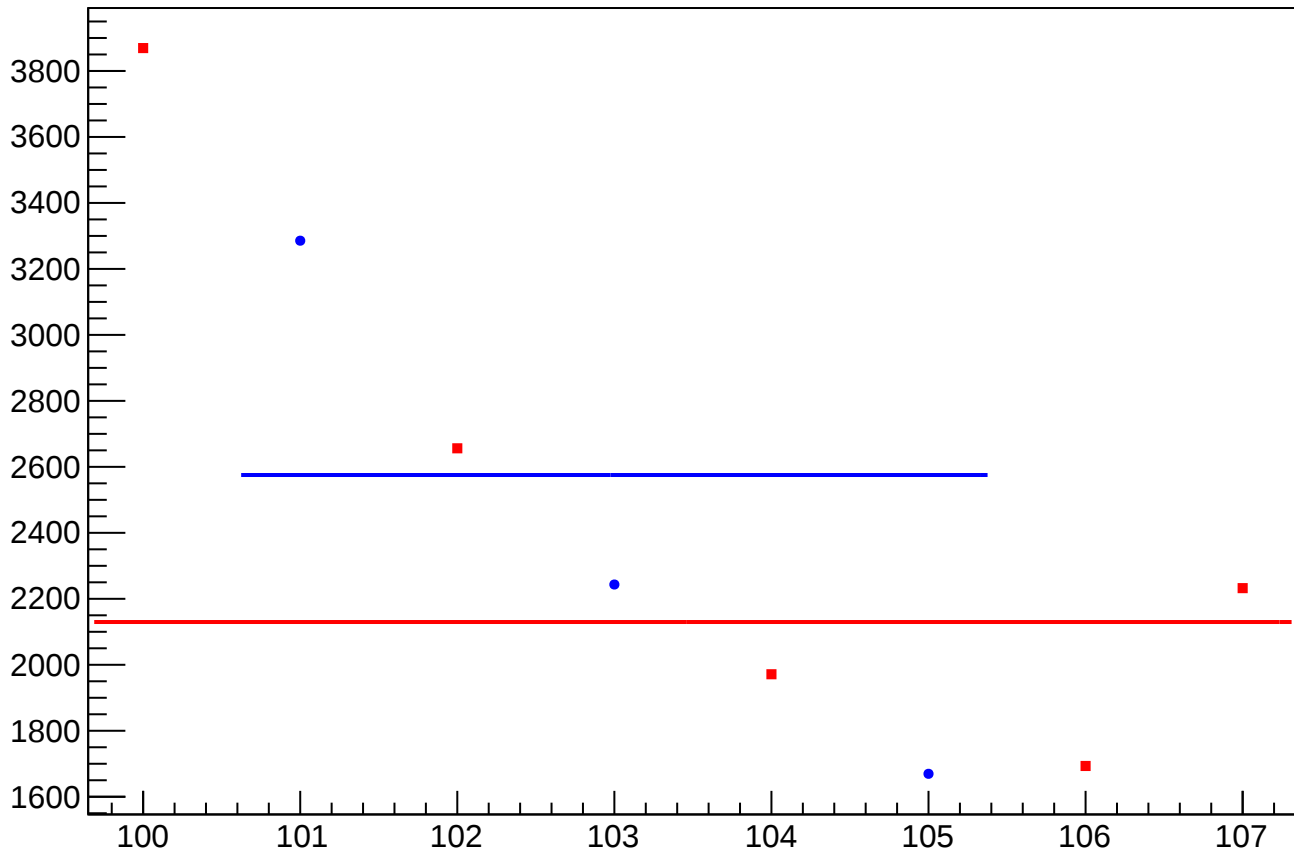
Right Out: 611.306+/-1705.373  $\chi^2/\text{NDF}$ : 0.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3234.545+/-2461.491  $\chi^2/\text{NDF}$ : 7.0/2

611.306+/-1705.373  $\chi^2/\text{NDF}$ : 0.7/4

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs slug



Right In: 2575.287+/-1.740  $\chi^2/\text{NDF}$ : 84171.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

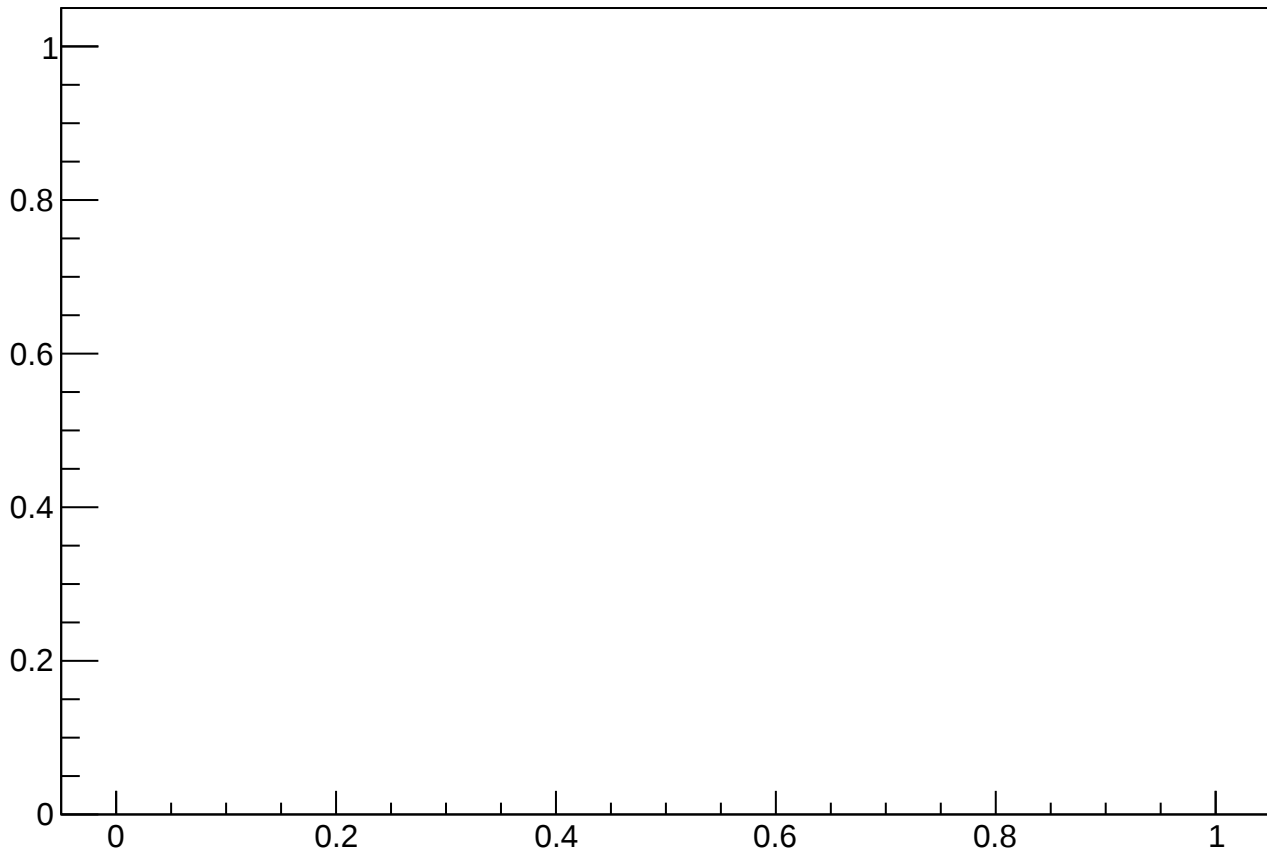
2575.287+/-1.740  $\chi^2/\text{NDF}$ : 84171.1/2

Right Out: 2129.676+/-1.206  $\chi^2/\text{NDF}$ : 104211.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2129.676+/-1.206  $\chi^2/\text{NDF}$ : 104211.2/4

asym\_atl\_dd\_atr\_dd\_dd\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

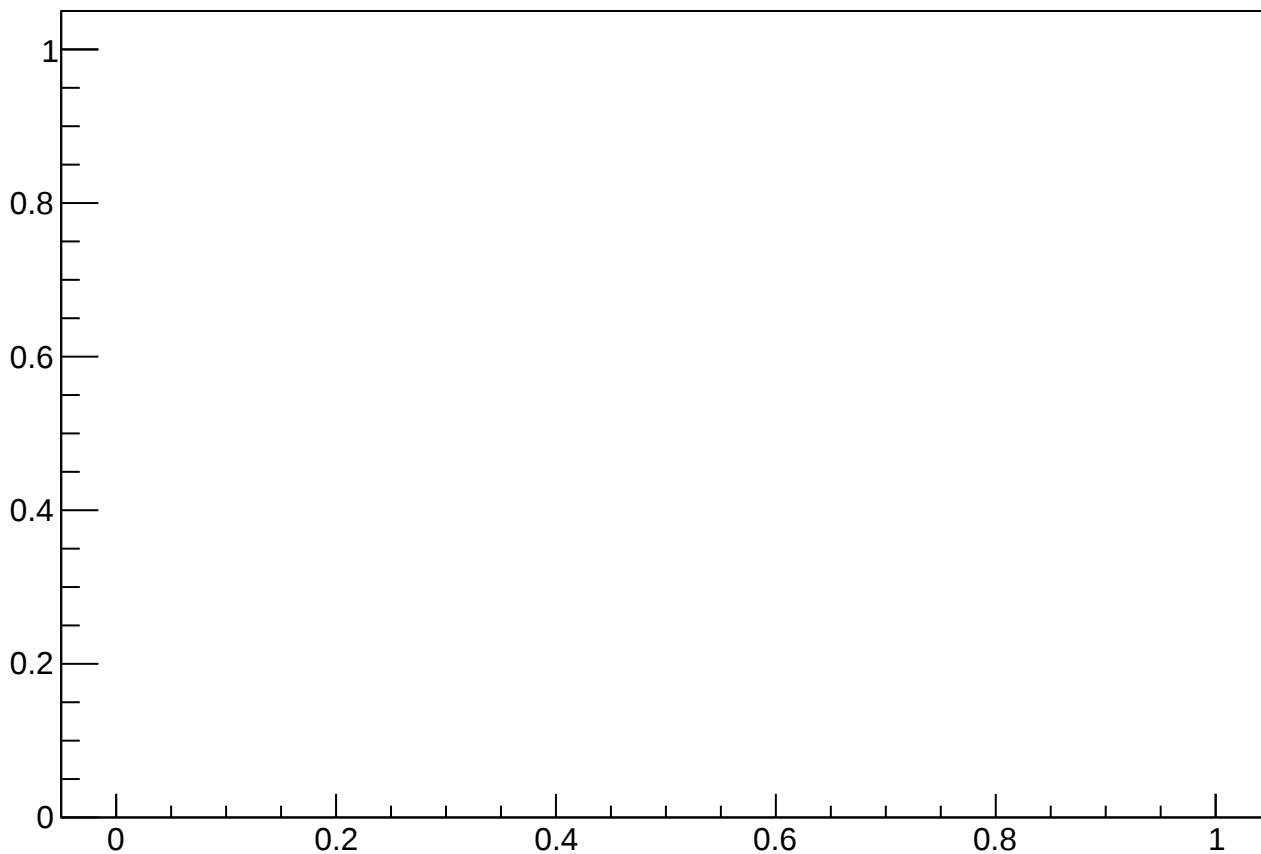
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_dd\_atr\_dd\_dd\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

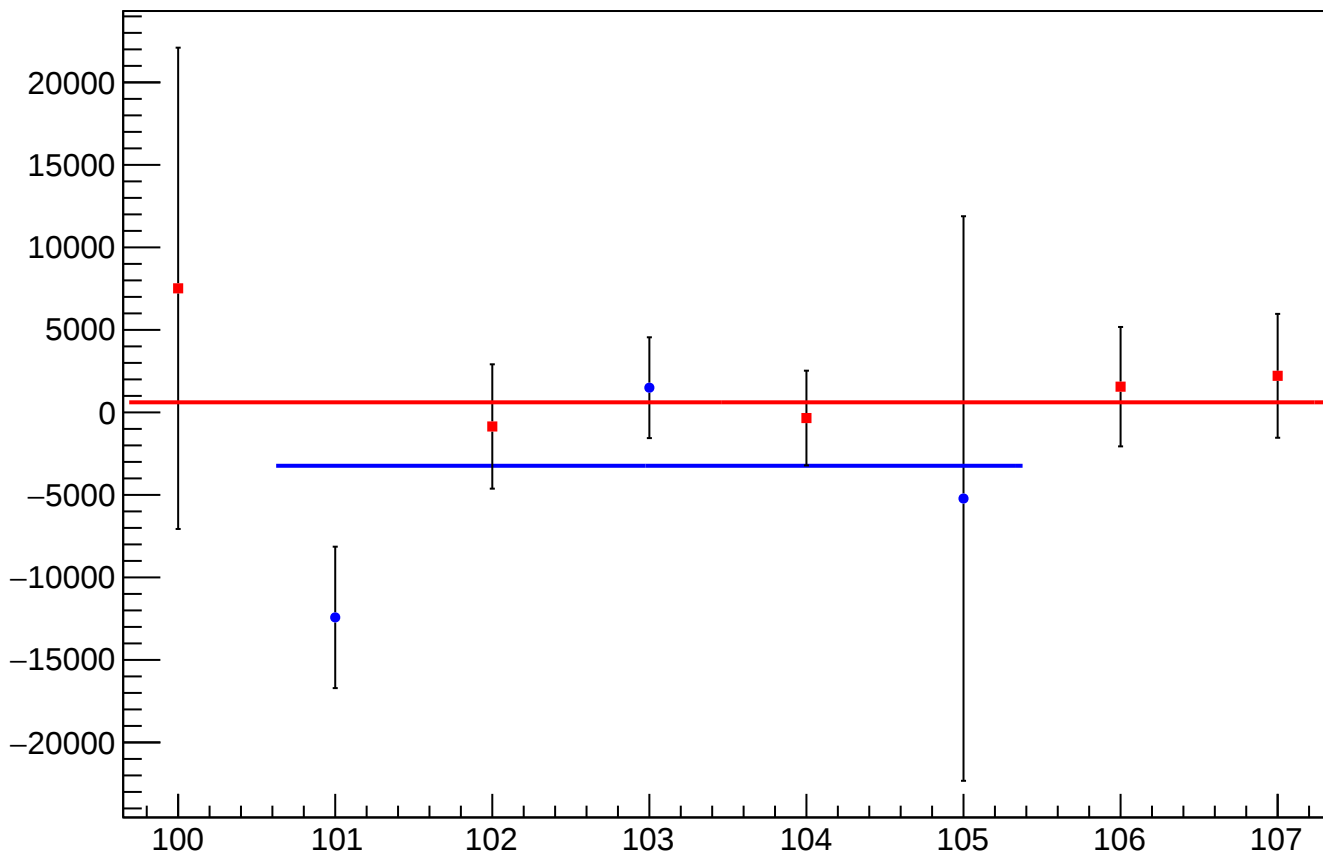
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_mean vs slug



Right In: -3234.545+/-2461.491  $\chi^2$ /NDF: 7.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

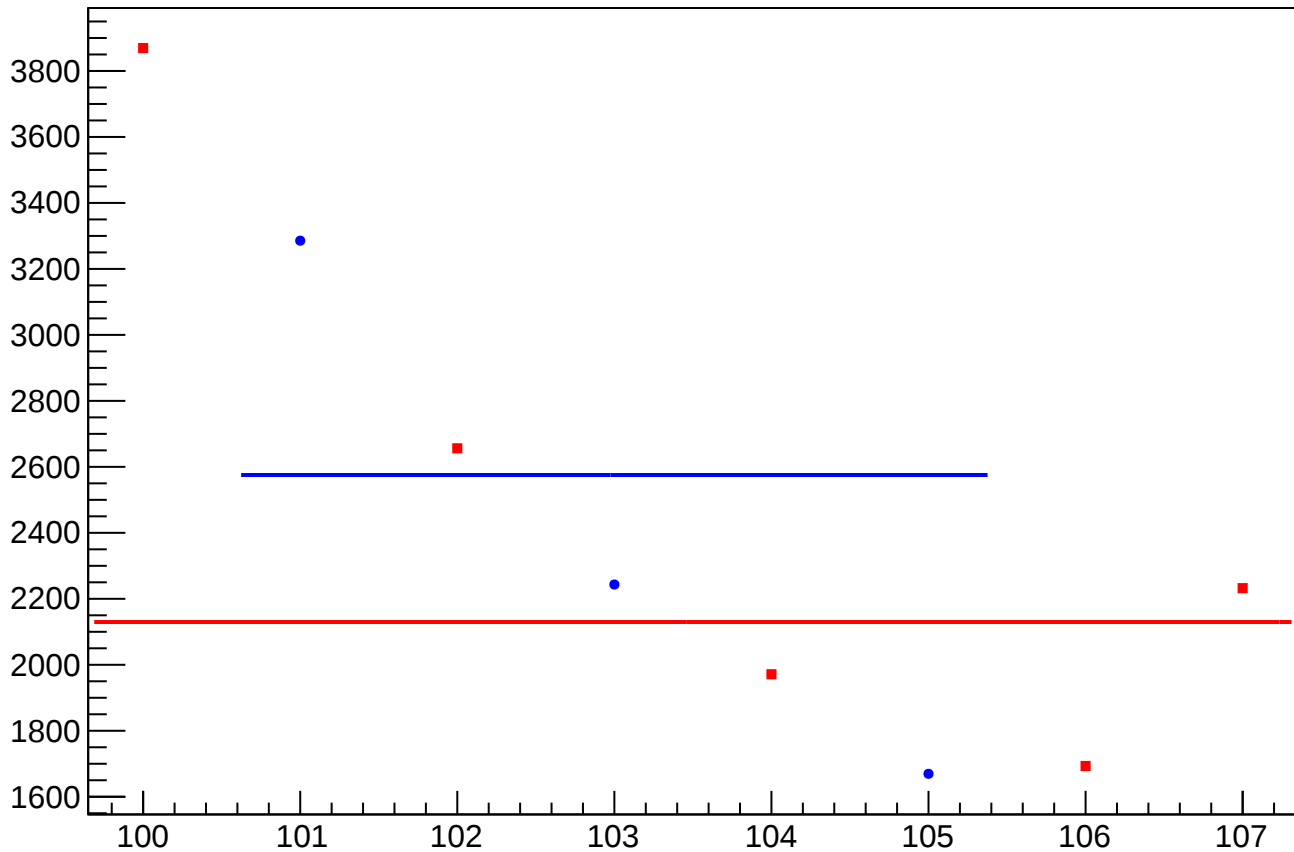
Right Out: 611.306+/-1705.373  $\chi^2$ /NDF: 0.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-3234.545+/-2461.491  $\chi^2$ /NDF: 7.0/2

611.306+/-1705.373  $\chi^2$ /NDF: 0.7/4

# asym\_atl\_dd\_atr\_dd\_dd\_rms vs slug



Right In: 2575.287+/-1.740  $\chi^2/\text{NDF}$ : 84171.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

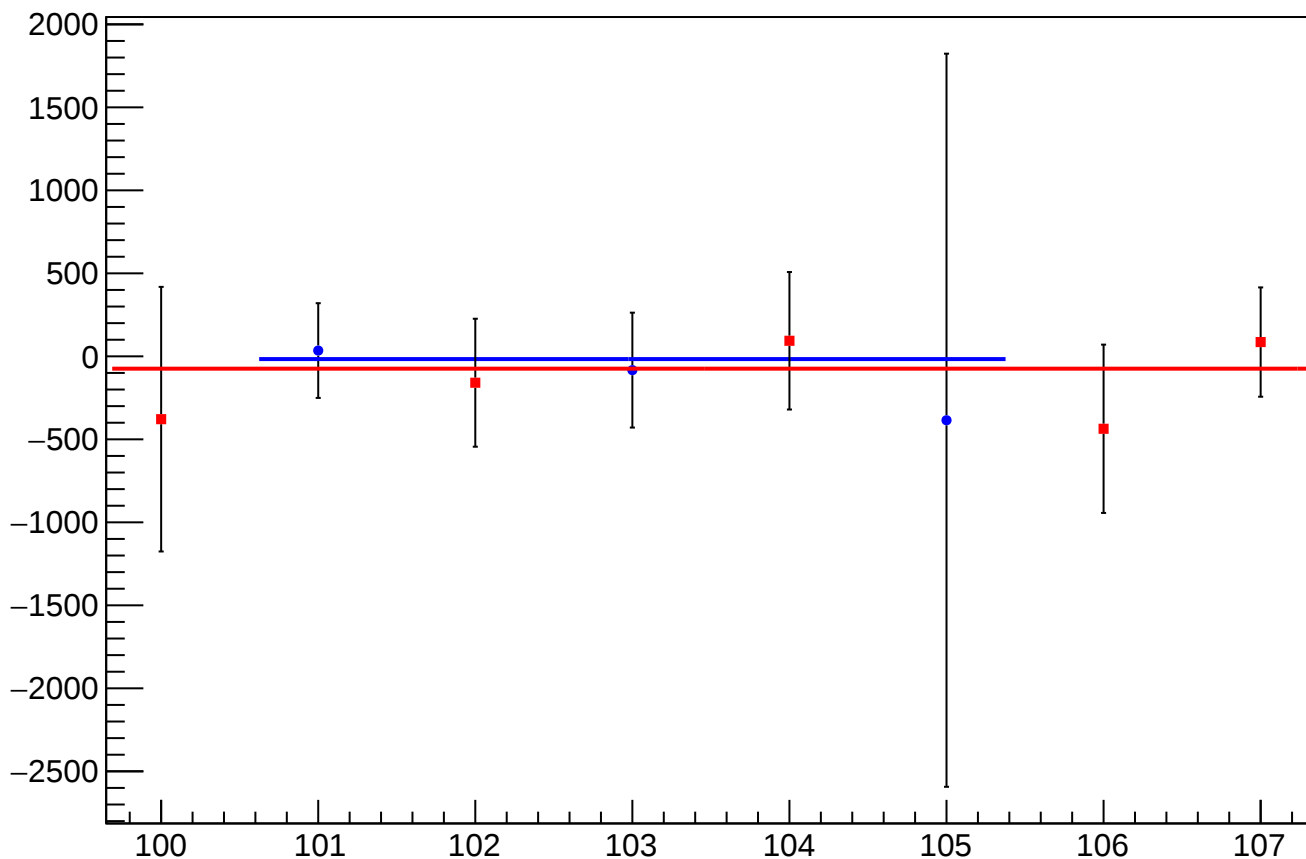
2575.287+/-1.740  $\chi^2/\text{NDF}$ : 84171.1/2

Right Out: 2129.676+/-1.206  $\chi^2/\text{NDF}$ : 104211.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2129.676+/-1.206  $\chi^2/\text{NDF}$ : 104211.2/4

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs slug



Right In: -16.517 $\pm$ 219.081  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

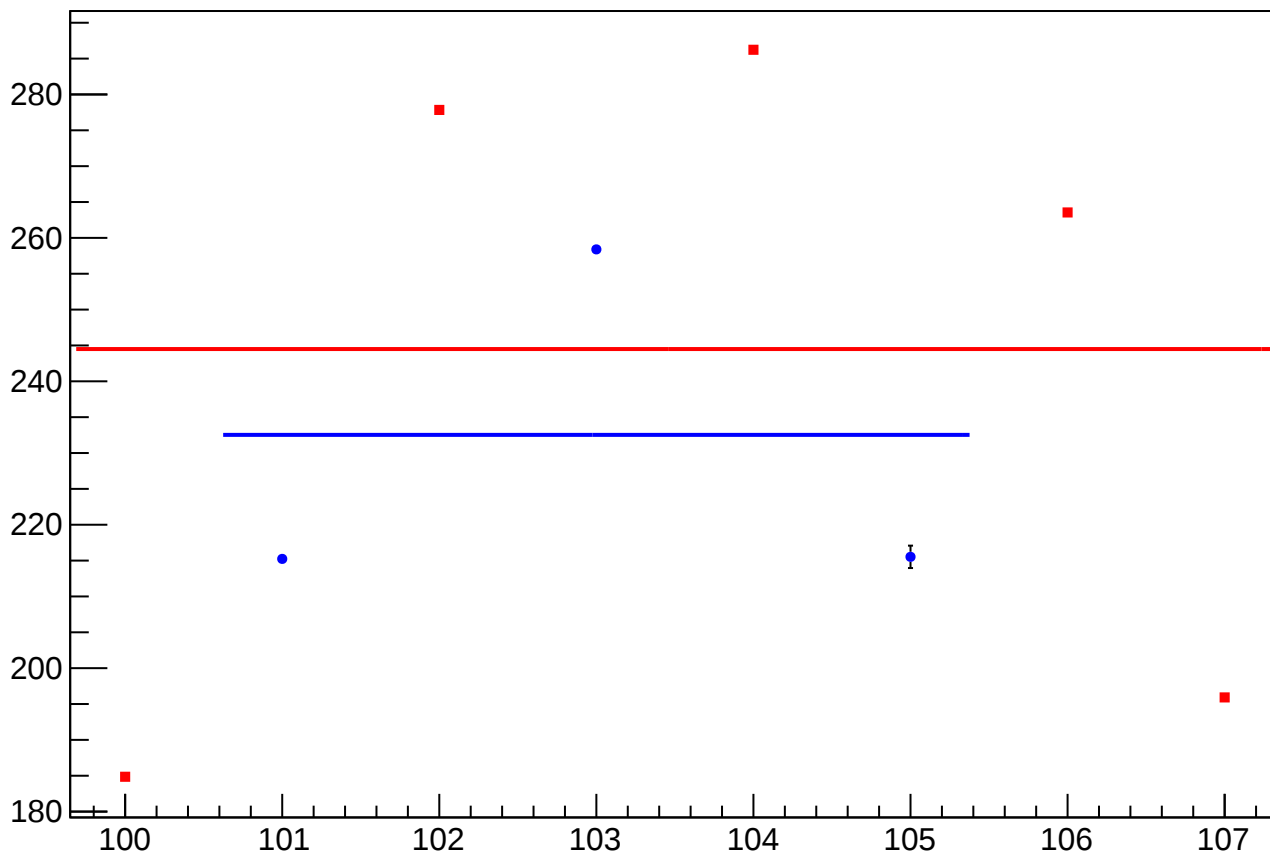
Right Out: -74.280 $\pm$ 191.577  $\chi^2$ /NDF: 1.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-16.517 $\pm$ 219.081  $\chi^2$ /NDF: 0.1/2

-74.280 $\pm$ 191.577  $\chi^2$ /NDF: 1.1/4

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs slug



Right In: 232.531+/-0.155  $\chi^2/\text{NDF}$ : 18633.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

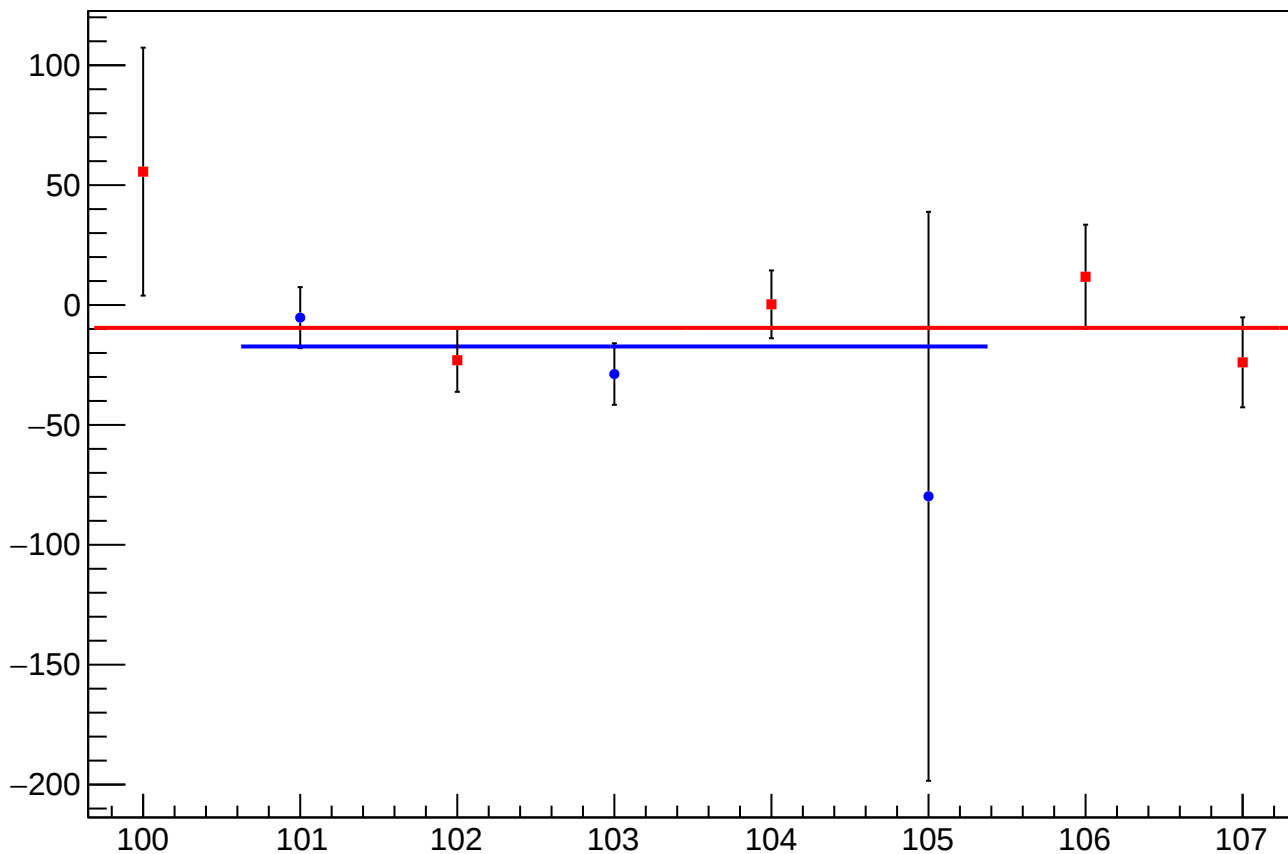
232.531+/-0.155  $\chi^2/\text{NDF}$ : 18633.6/2

Right Out: 244.499+/-0.135  $\chi^2/\text{NDF}$ : 92816.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

244.499+/-0.135  $\chi^2/\text{NDF}$ : 92816.2/4

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs slug



Right In: -17.293+/-9.006  $\chi^2/\text{NDF}$ : 2.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

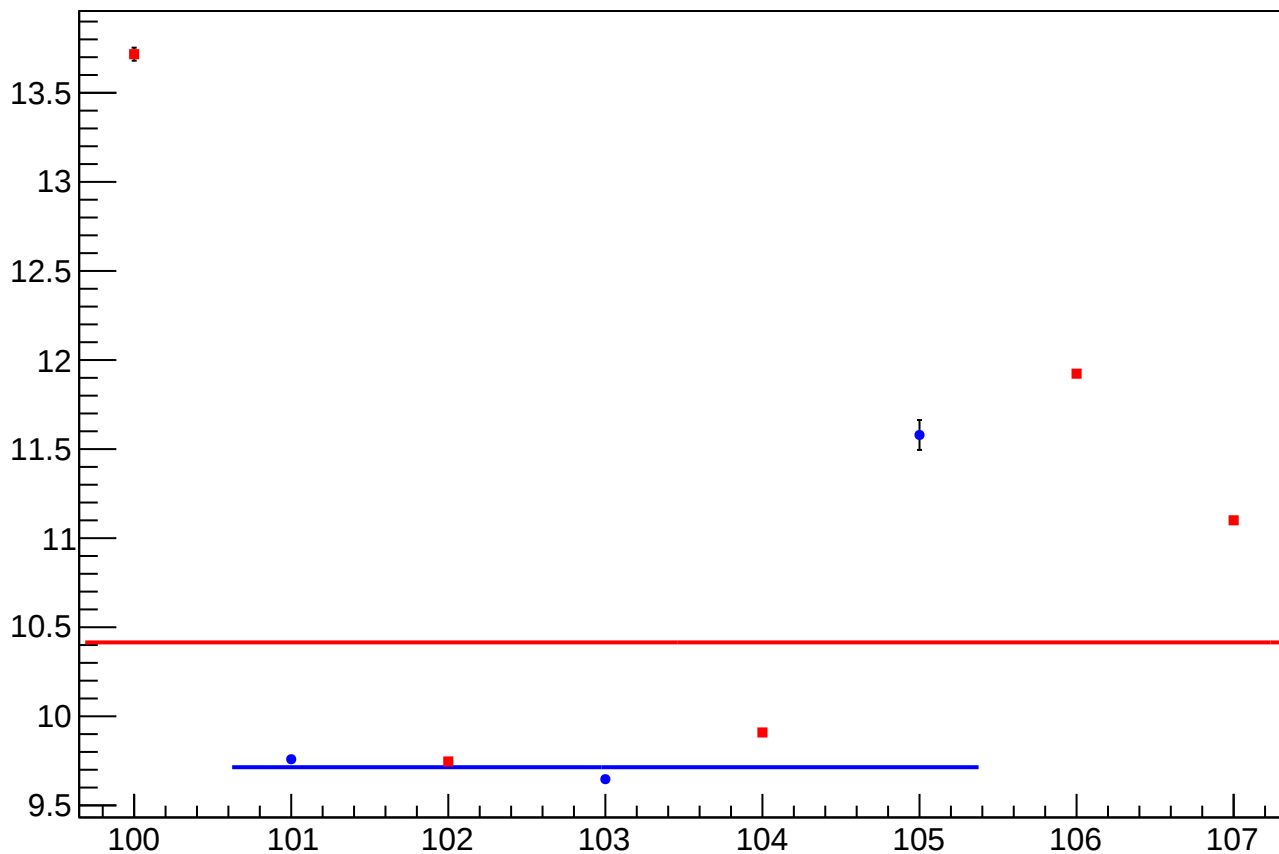
Right Out: -9.515+/-7.880  $\chi^2/\text{NDF}$ : 4.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-17.293+/-9.006  $\chi^2/\text{NDF}$ : 2.0/2

-9.515+/-7.880  $\chi^2/\text{NDF}$ : 4.7/4

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs slug



Right In: 9.714+/-0.006  $\chi^2/\text{NDF}$ : 573.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

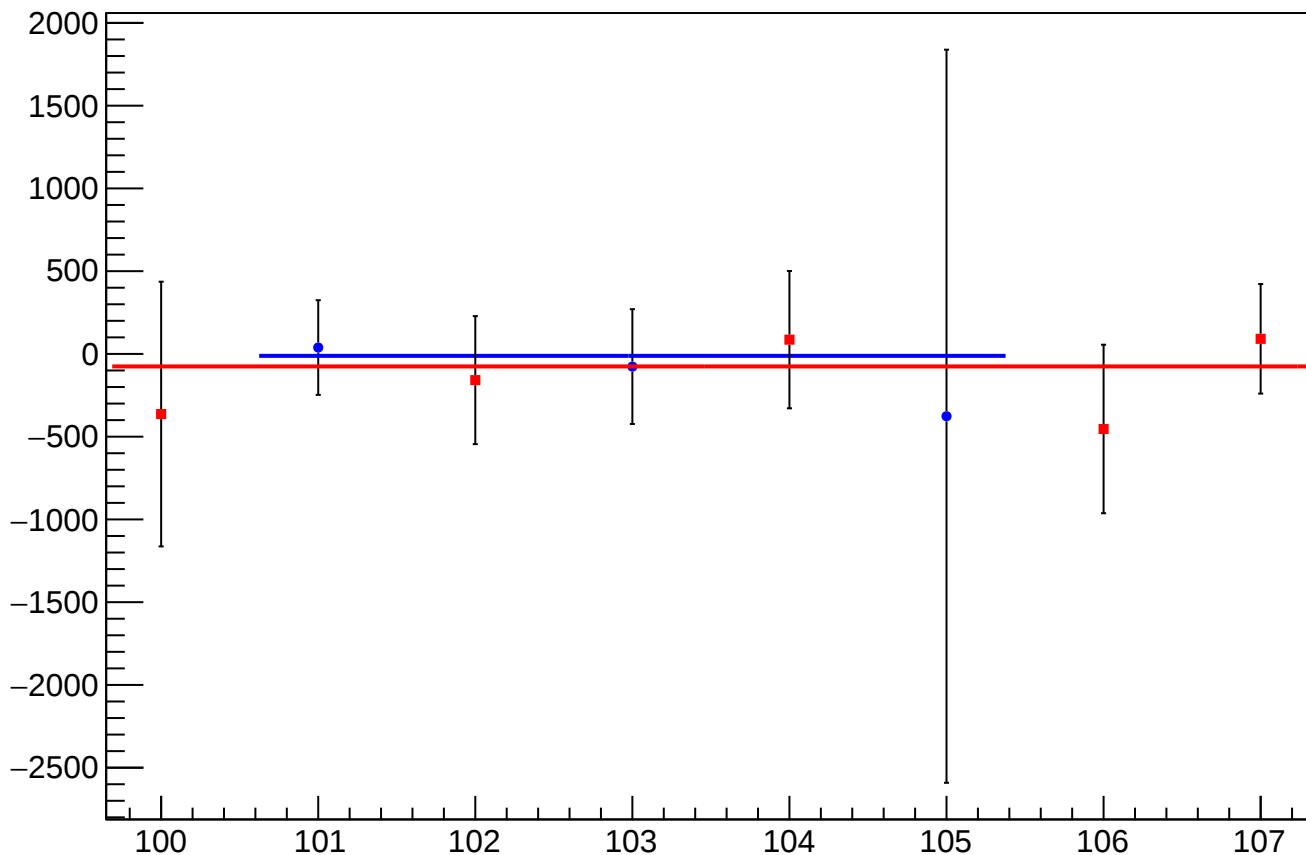
Right Out: 10.415+/-0.006  $\chi^2/\text{NDF}$ : 28190.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.714+/-0.006  $\chi^2/\text{NDF}$ : 573.9/2

10.415+/-0.006  $\chi^2/\text{NDF}$ : 28190.1/4

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs slug



Right In: -11.634 $\pm$ 219.564  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

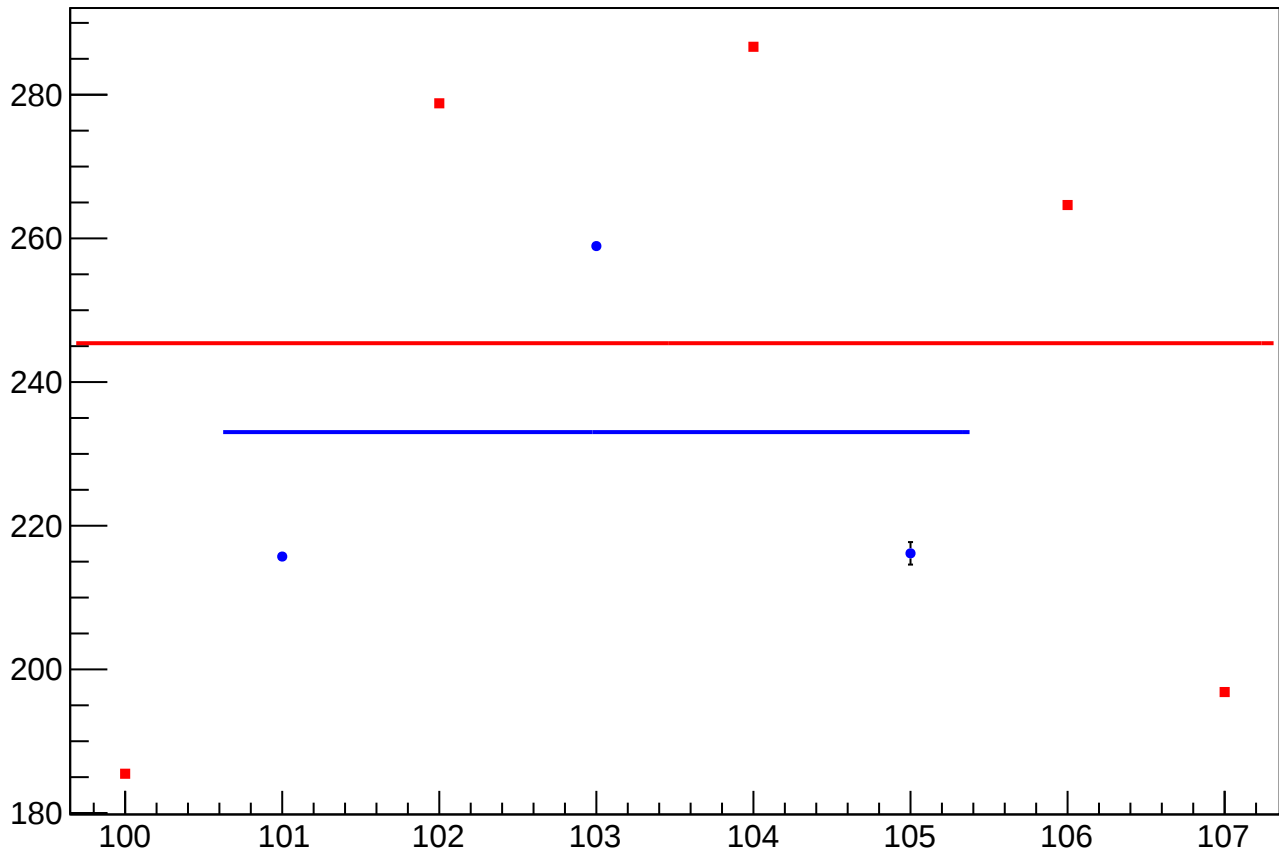
Right Out: -75.472 $\pm$ 192.267  $\chi^2$ /NDF: 1.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-11.634 $\pm$ 219.564  $\chi^2$ /NDF: 0.1/2

-75.472 $\pm$ 192.267  $\chi^2$ /NDF: 1.1/4

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs slug



Right In: 233.034 $\pm$ 0.155  $\chi^2$ /NDF: 18605.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

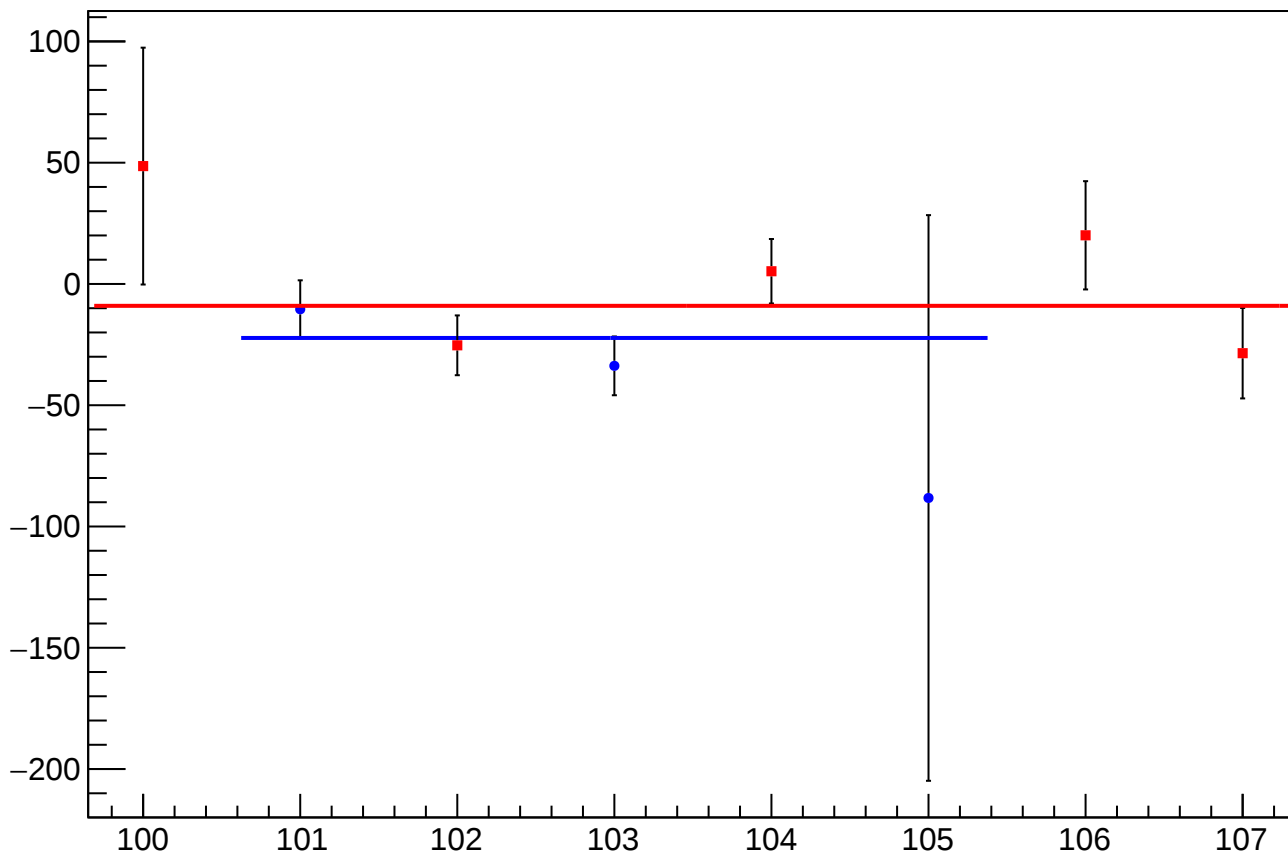
233.034 $\pm$ 0.155  $\chi^2$ /NDF: 18605.3/2

Right Out: 245.410 $\pm$ 0.136  $\chi^2$ /NDF: 91873.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

245.410 $\pm$ 0.136  $\chi^2$ /NDF: 91873.1/4

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs slug



Right In: -22.263 $\pm$ 8.478  $\chi^2$ /NDF: 2.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

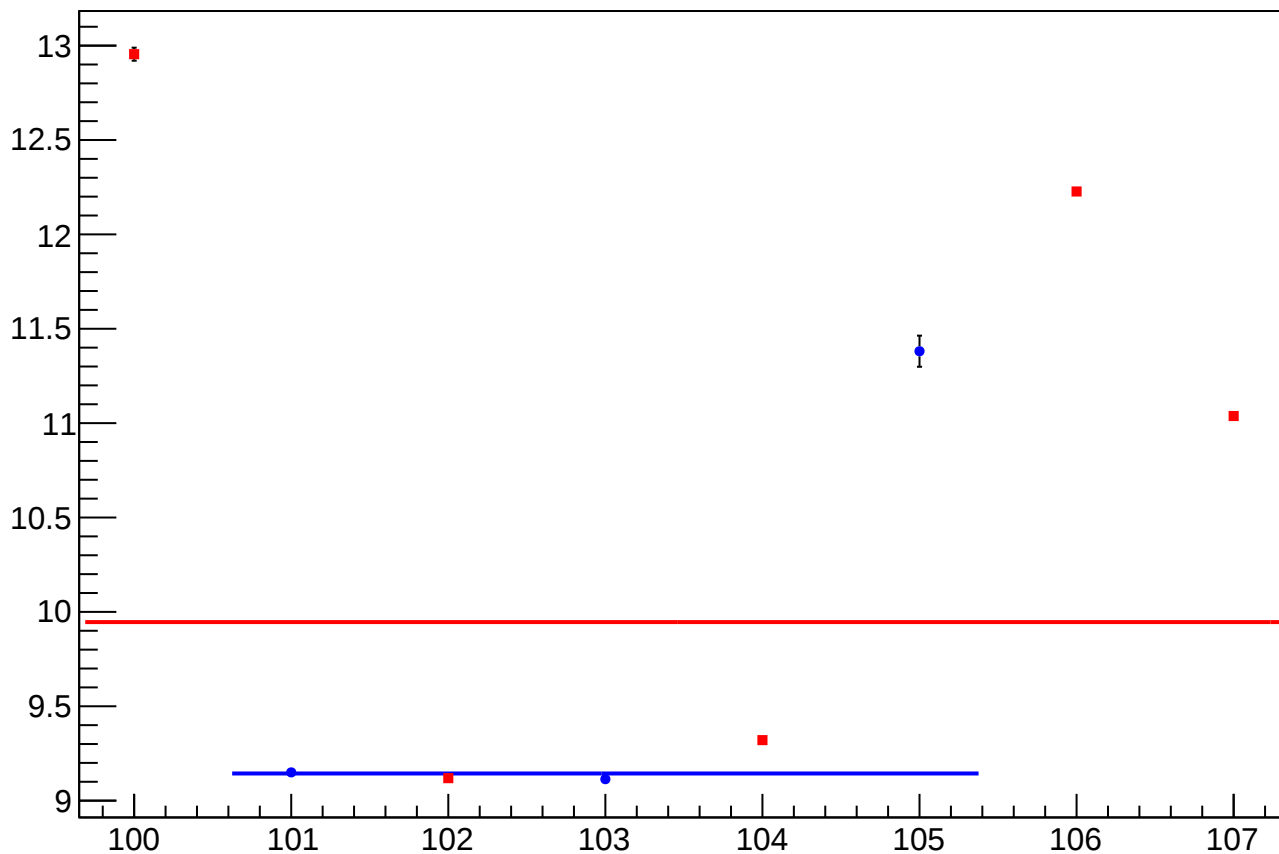
Right Out: -9.018 $\pm$ 7.550  $\chi^2$ /NDF: 7.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-22.263 $\pm$ 8.478  $\chi^2$ /NDF: 2.2/2

-9.018 $\pm$ 7.550  $\chi^2$ /NDF: 7.1/4

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs slug



Right In: 9.144+/-0.006  $\chi^2/\text{NDF}$ : 748.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

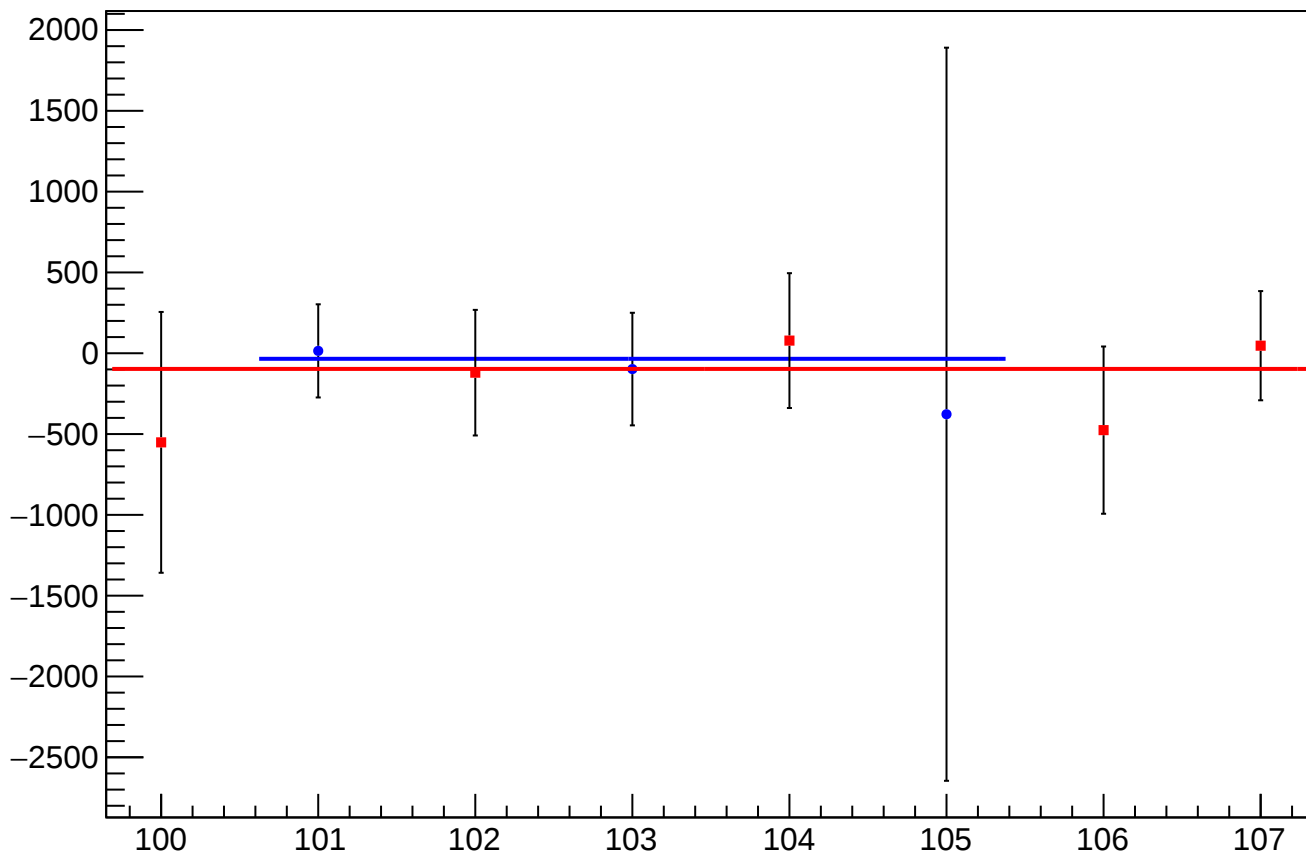
Right Out: 9.946+/-0.005  $\chi^2/\text{NDF}$ : 48766.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.144+/-0.006  $\chi^2/\text{NDF}$ : 748.9/2

9.946+/-0.005  $\chi^2/\text{NDF}$ : 48766.0/4

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs slug



Right In: -34.409 $\pm$ 221.014  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

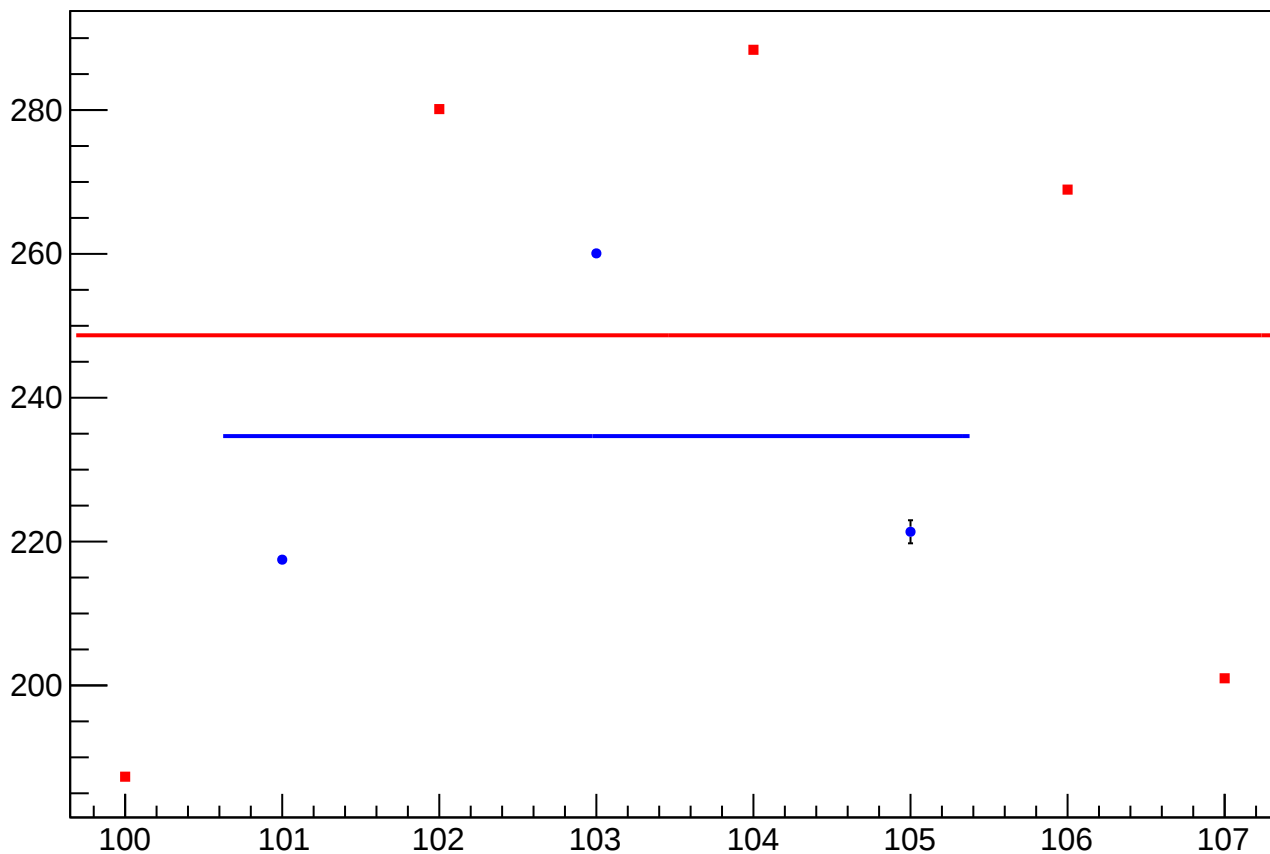
Right Out: -96.970 $\pm$ 194.621  $\chi^2$ /NDF: 1.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-34.409 $\pm$ 221.014  $\chi^2$ /NDF: 0.1/2

-96.970 $\pm$ 194.621  $\chi^2$ /NDF: 1.2/4

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs slug



Right In: 234.666+/-0.156  $\chi^2/\text{NDF}$ : 17813.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

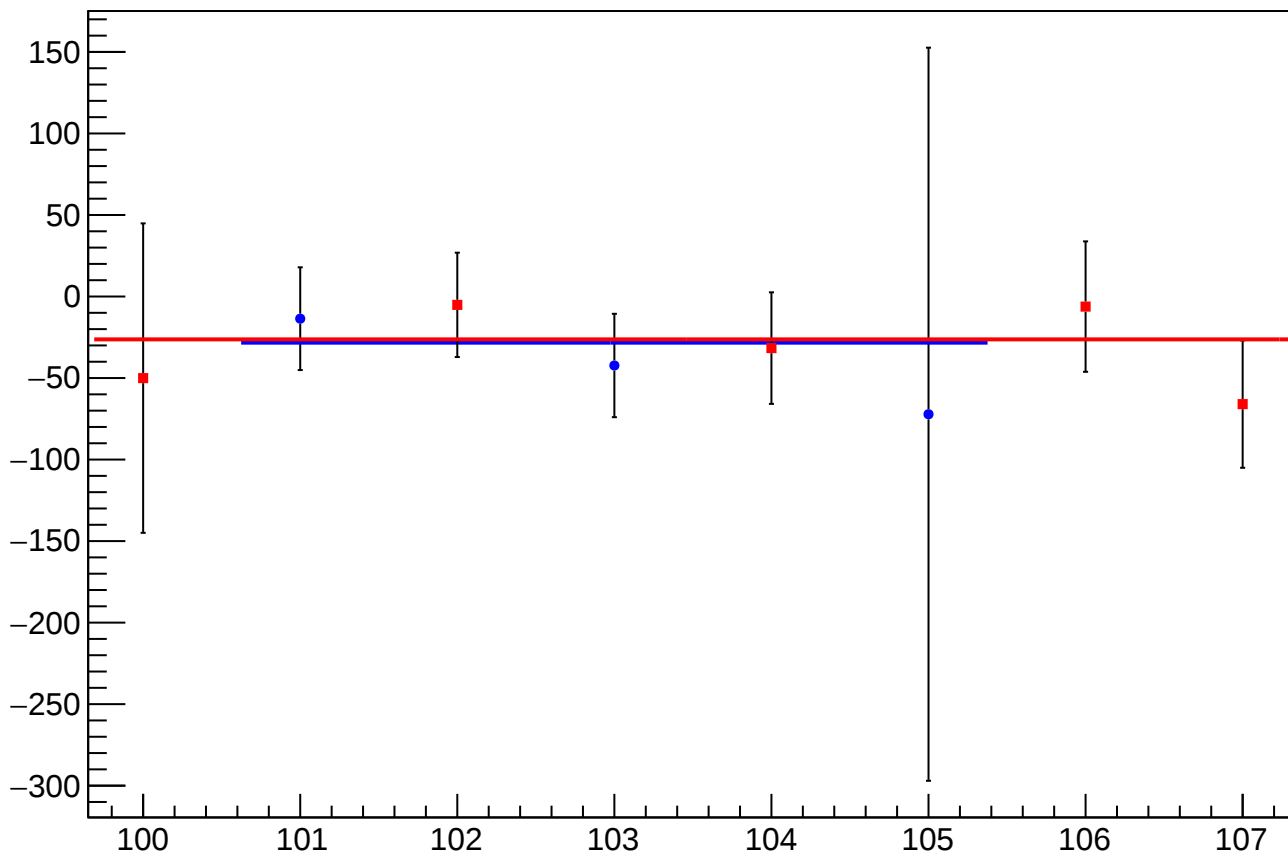
234.666+/-0.156  $\chi^2/\text{NDF}$ : 17813.3/2

Right Out: 248.681+/-0.138  $\chi^2/\text{NDF}$ : 85697.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

248.681+/-0.138  $\chi^2/\text{NDF}$ : 85697.8/4

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs slug



Right In: -28.293 $\pm$ 22.239  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

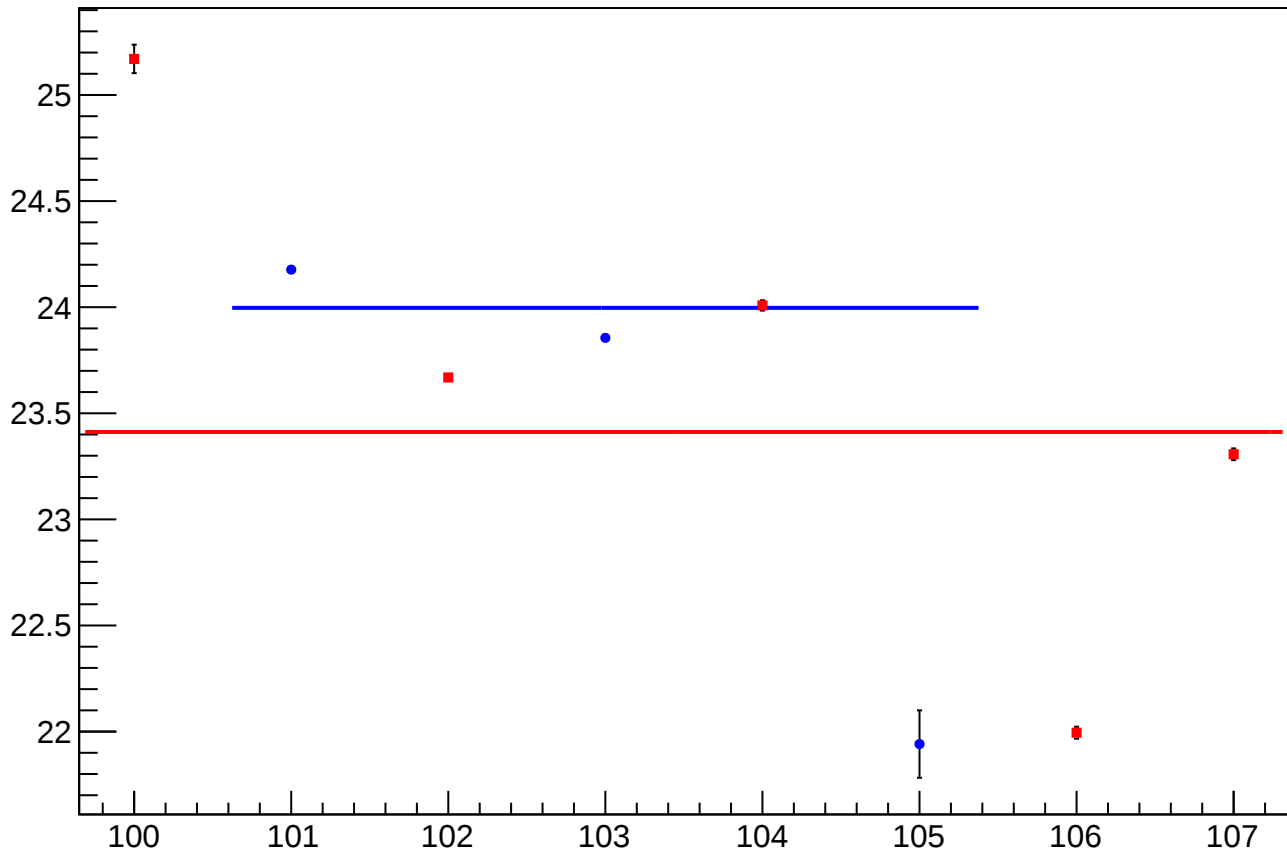
Right Out: -26.283 $\pm$ 17.615  $\chi^2$ /NDF: 1.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-28.293 $\pm$ 22.239  $\chi^2$ /NDF: 0.5/2

-26.283 $\pm$ 17.615  $\chi^2$ /NDF: 1.8/4

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs slug



Right In:  $23.997 \pm 0.016$   $\chi^2/\text{NDF}: 272.3/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

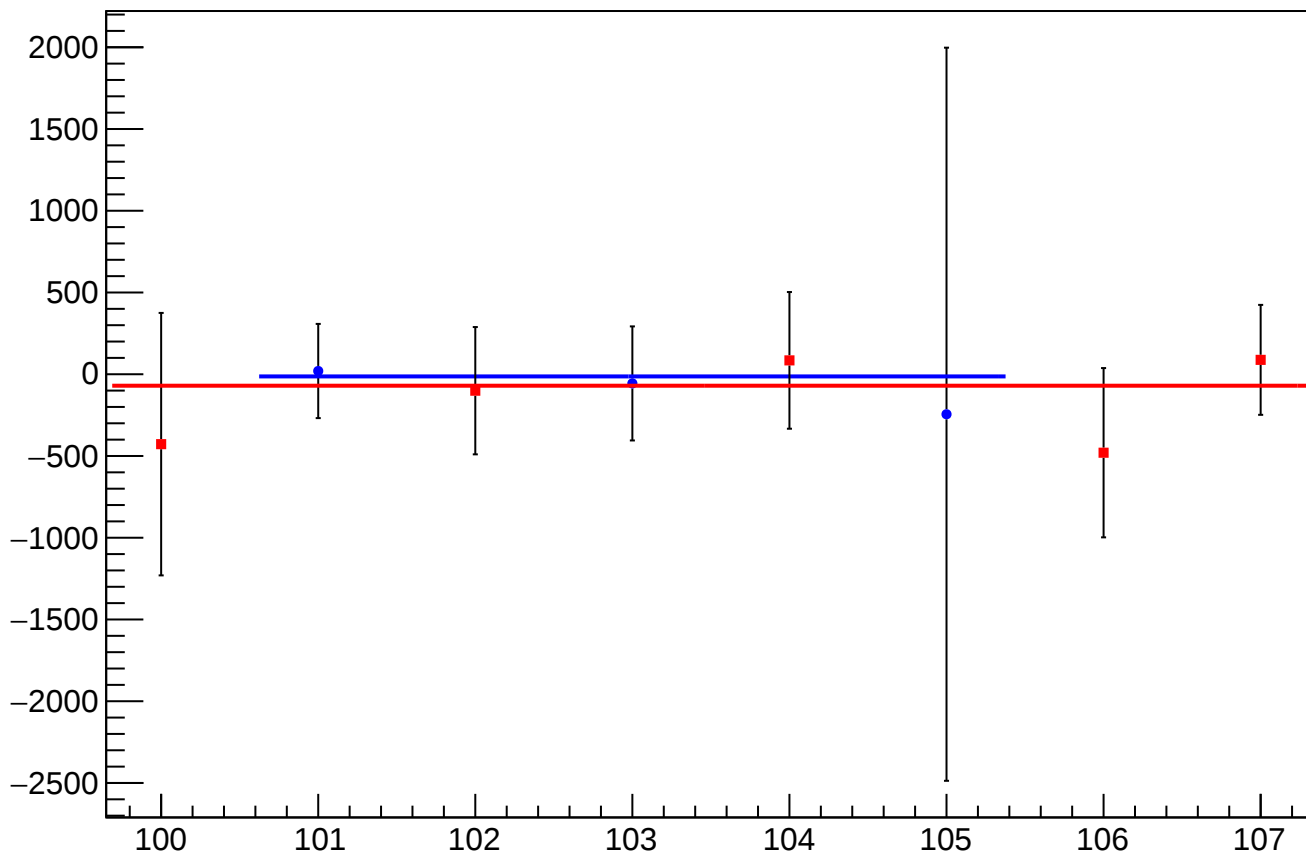
Right Out:  $23.412 \pm 0.012$   $\chi^2/\text{NDF}: 3950.0/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$23.997 \pm 0.016$   $\chi^2/\text{NDF}: 272.3/2$

$23.412 \pm 0.012$   $\chi^2/\text{NDF}: 3950.0/4$

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs slug



Right In: -13.278+/-221.062  $\chi^2/\text{NDF}$ : 0.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

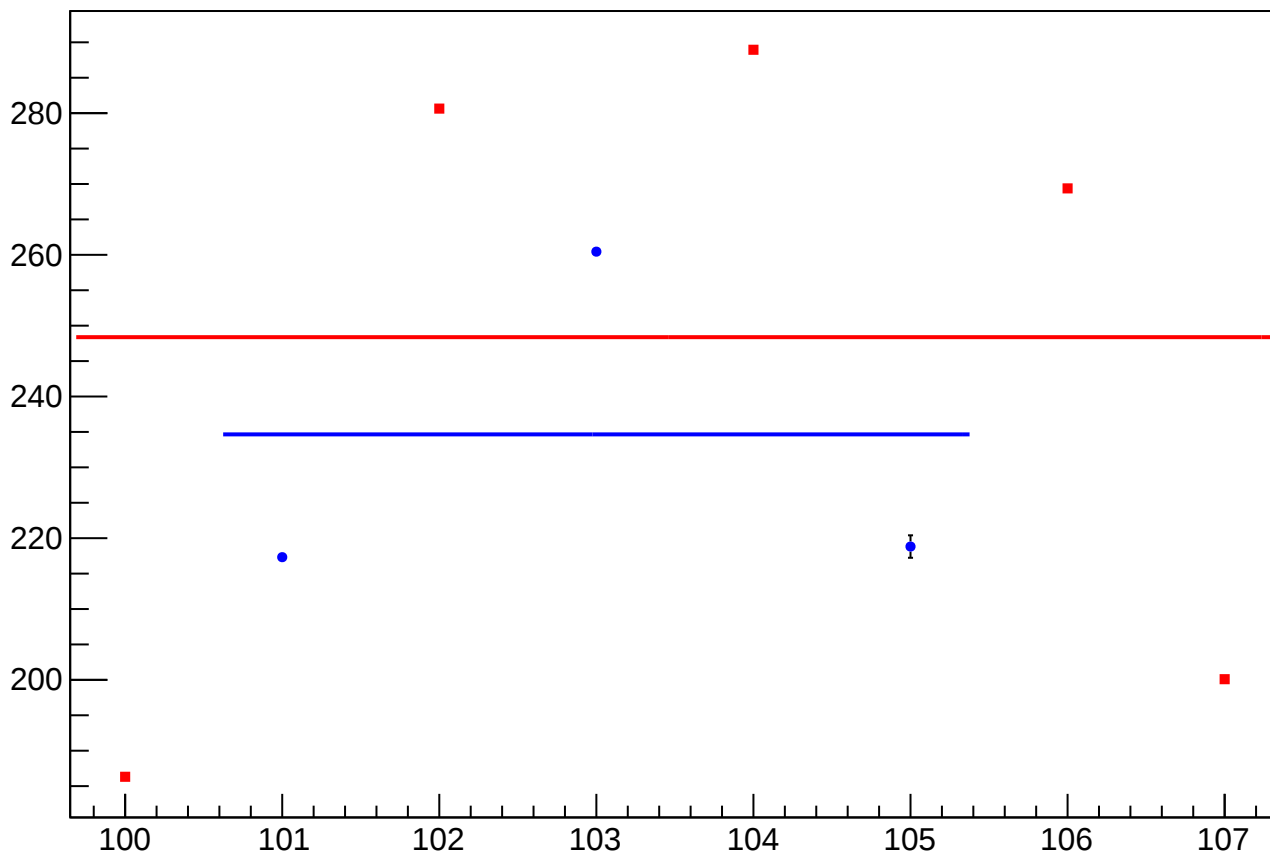
Right Out: -70.138+/-194.451  $\chi^2/\text{NDF}$ : 1.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-13.278+/-221.062  $\chi^2/\text{NDF}$ : 0.0/2

-70.138+/-194.451  $\chi^2/\text{NDF}$ : 1.2/4

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs slug



Right In: 234.654 $\pm$ 0.156  $\chi^2$ /NDF: 18274.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

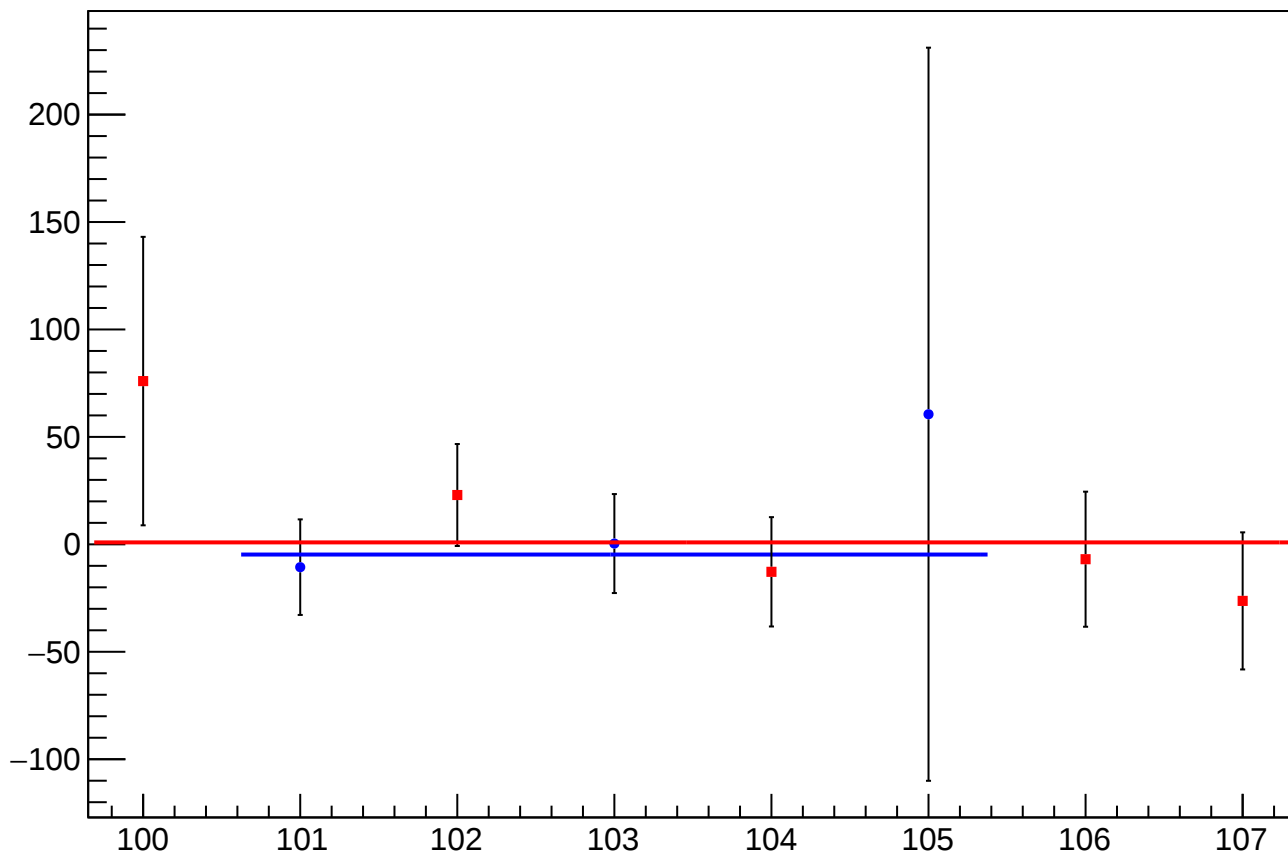
234.654 $\pm$ 0.156  $\chi^2$ /NDF: 18274.9/2

Right Out: 248.377 $\pm$ 0.137  $\chi^2$ /NDF: 89057.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

248.377 $\pm$ 0.137  $\chi^2$ /NDF: 89057.3/4

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs slug



Right In: -4.745+/-15.928  $\chi^2/\text{NDF}$ : 0.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

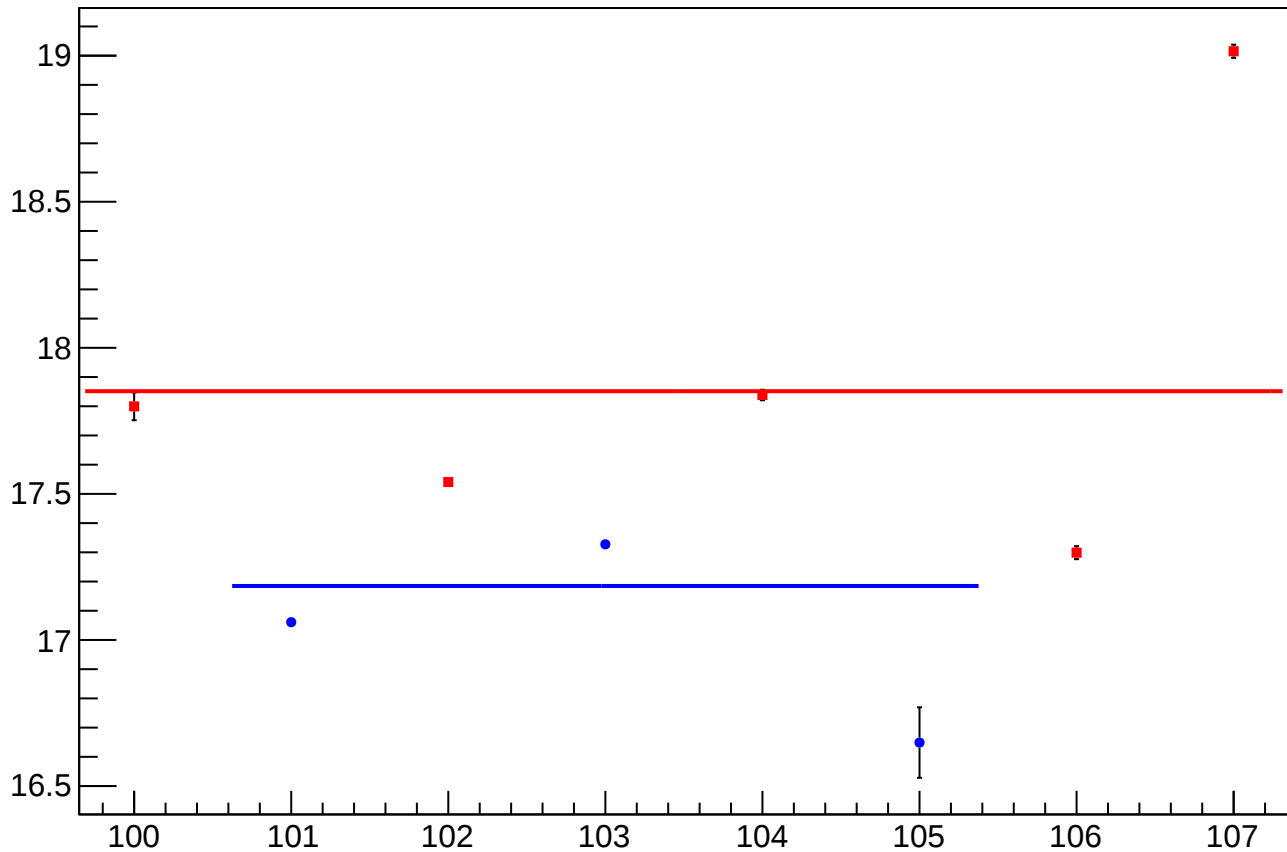
Right Out: 0.908+/-13.438  $\chi^2/\text{NDF}$ : 3.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.745+/-15.928  $\chi^2/\text{NDF}$ : 0.3/2

0.908+/-13.438  $\chi^2/\text{NDF}$ : 3.2/4

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs slug



Right In: 17.185+/-0.011  $\chi^2/\text{NDF}$ : 158.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

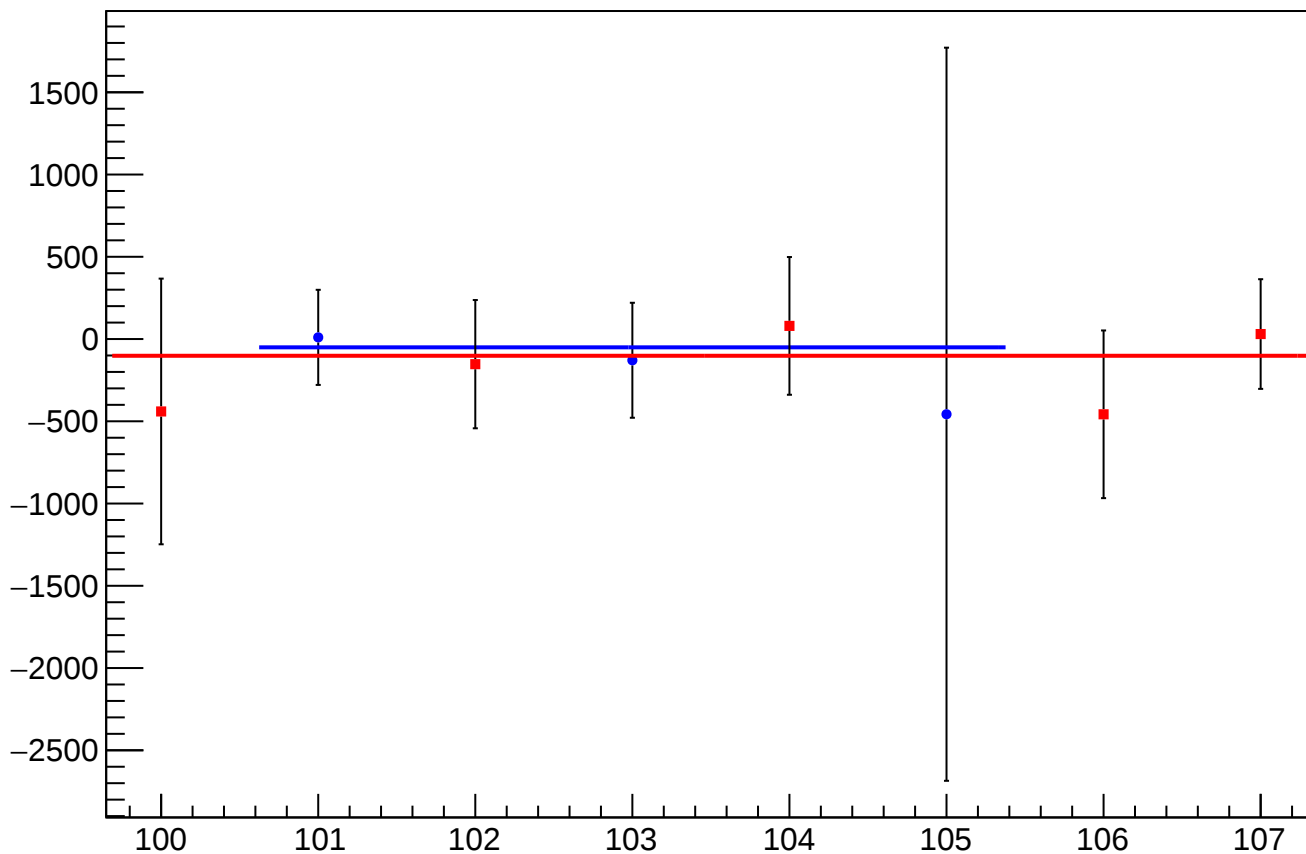
Right Out: 17.852+/-0.010  $\chi^2/\text{NDF}$ : 3623.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

17.185+/-0.011  $\chi^2/\text{NDF}$ : 158.5/2

17.852+/-0.010  $\chi^2/\text{NDF}$ : 3623.8/4

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs slug



Right In: -50.458+/-221.652  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

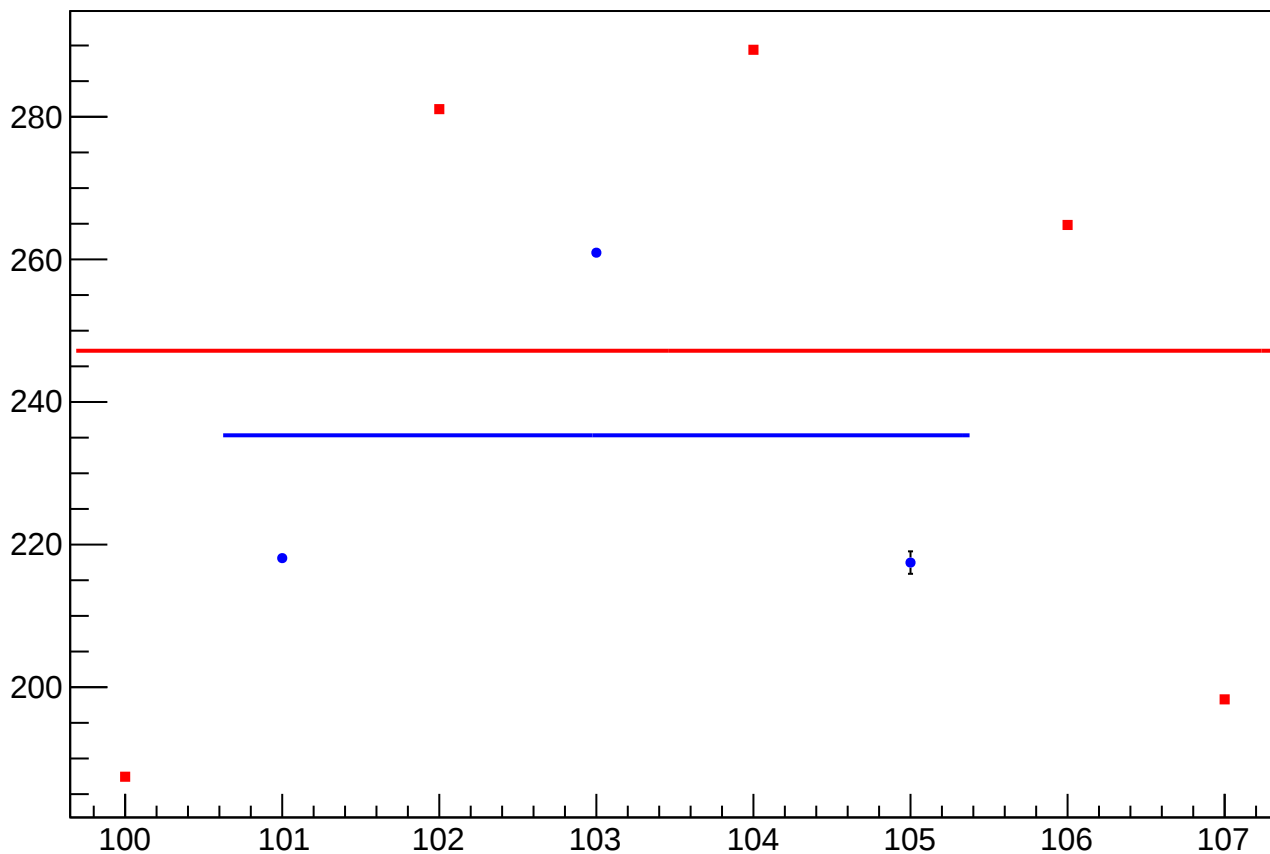
Right Out: -101.735+/-193.642  $\chi^2/\text{NDF}$ : 1.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-50.458+/-221.652  $\chi^2/\text{NDF}$ : 0.1/2

-101.735+/-193.642  $\chi^2/\text{NDF}$ : 1.0/4

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs slug



Right In: 235.327 $\pm$ 0.157  $\chi^2$ /NDF: 17971.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

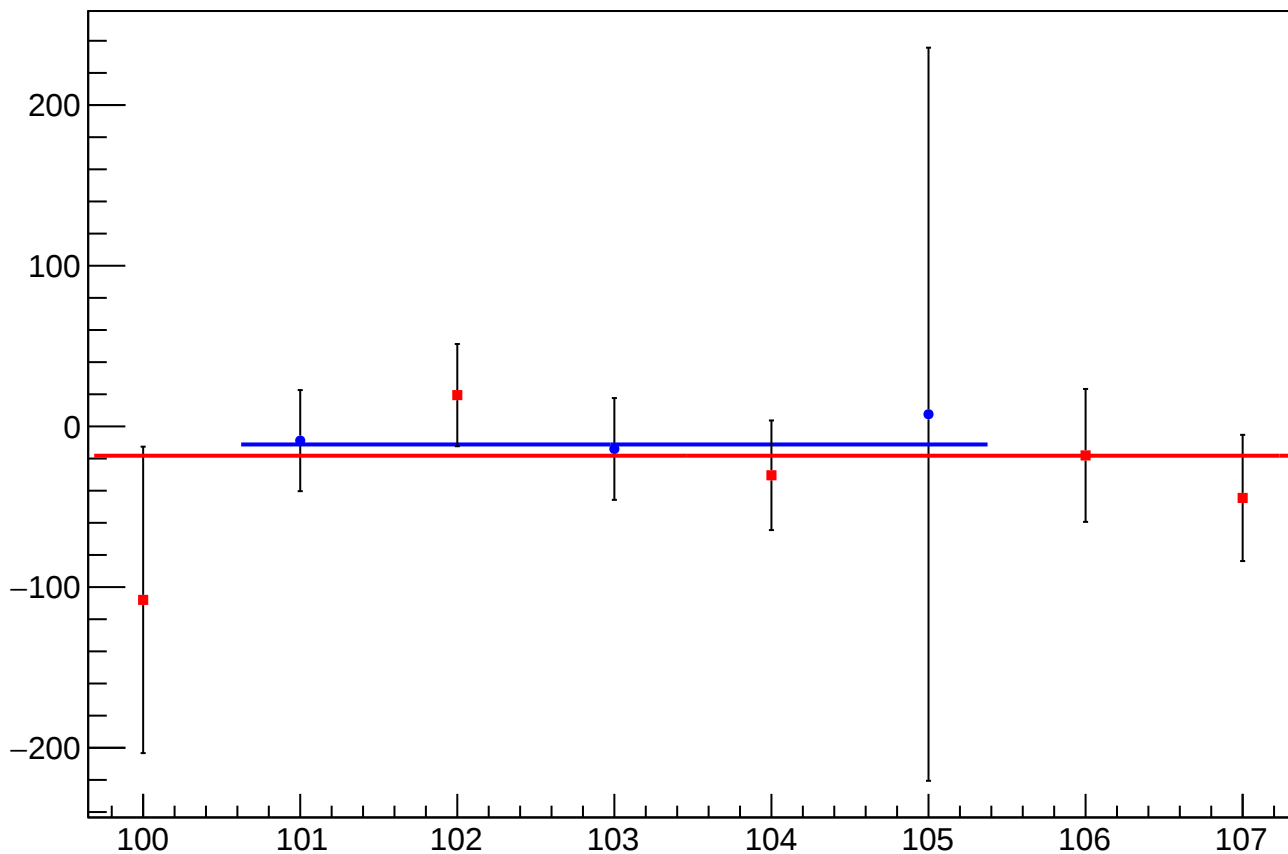
Right Out: 247.188 $\pm$ 0.137  $\chi^2$ /NDF: 91821.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

235.327 $\pm$ 0.157  $\chi^2$ /NDF: 17971.8/2

247.188 $\pm$ 0.137  $\chi^2$ /NDF: 91821.2/4

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs slug



Right In:  $-11.232 \pm 22.217$   $\chi^2/\text{NDF}$ : 0.0/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

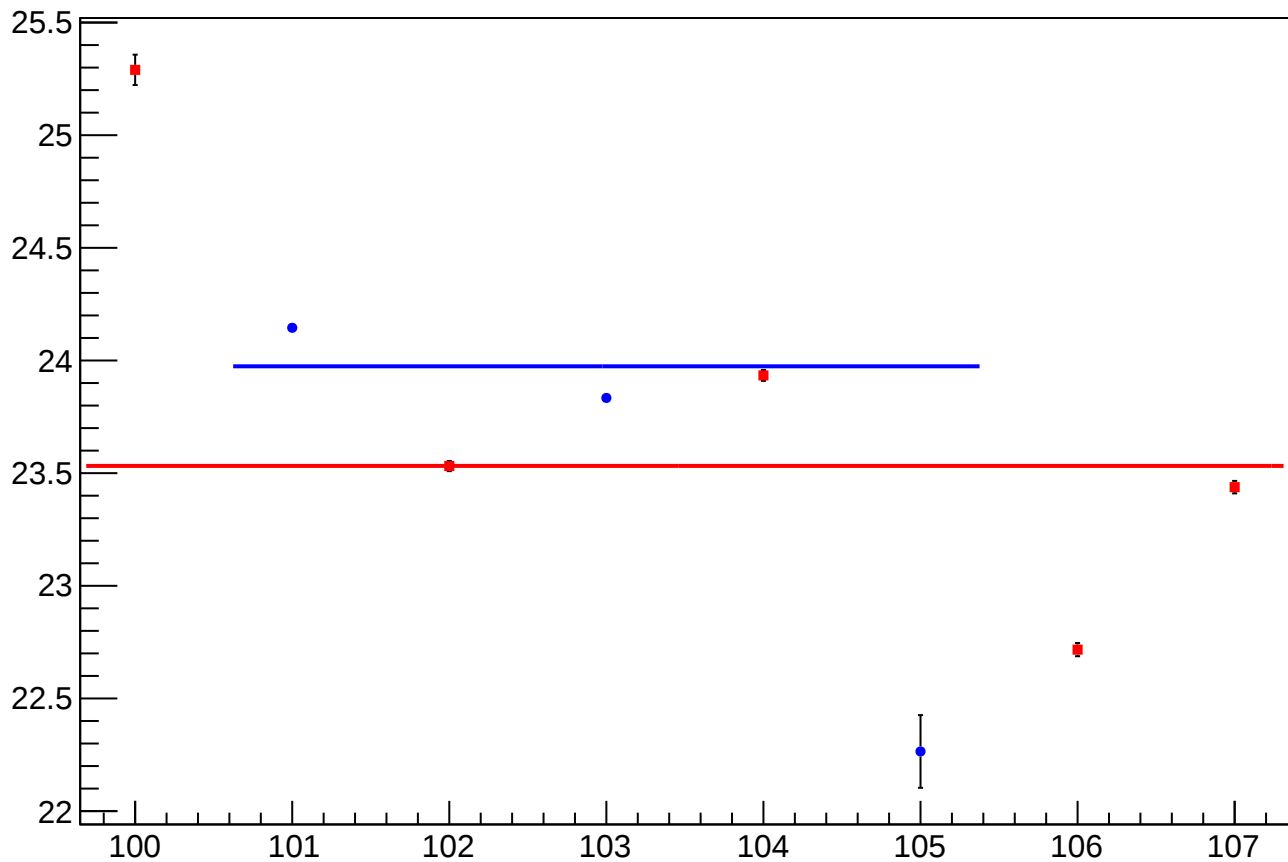
Right Out:  $-18.229 \pm 17.704$   $\chi^2/\text{NDF}$ : 2.9/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-11.232 \pm 22.217$   $\chi^2/\text{NDF}$ : 0.0/2

$-18.229 \pm 17.704$   $\chi^2/\text{NDF}$ : 2.9/4

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs slug



Right In: 23.974+/-0.016  $\chi^2/\text{NDF}$ : 210.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

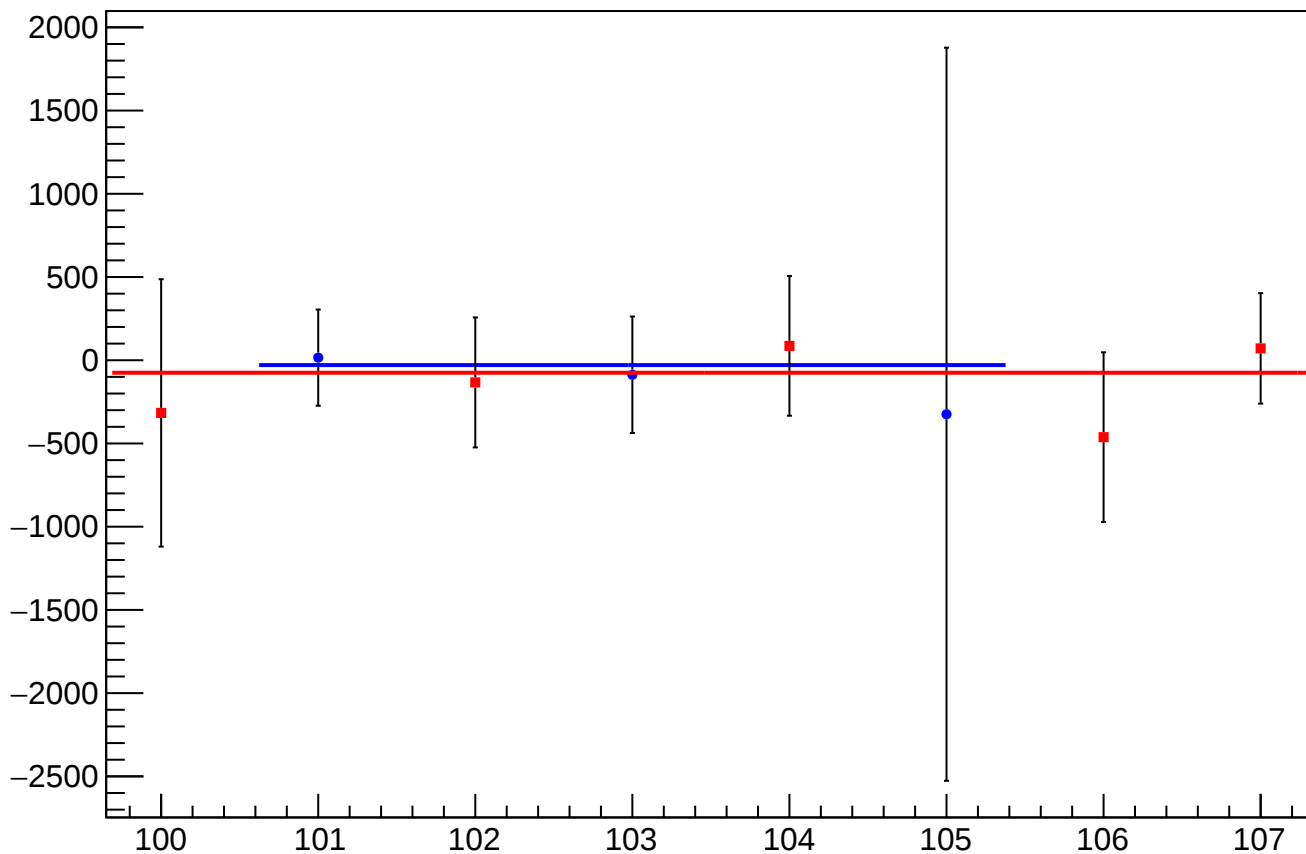
Right Out: 23.532+/-0.013  $\chi^2/\text{NDF}$ : 1745.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

23.974+/-0.016  $\chi^2/\text{NDF}$ : 210.6/2

23.532+/-0.013  $\chi^2/\text{NDF}$ : 1745.9/4

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs slug



Right In: -29.144+/-221.696  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

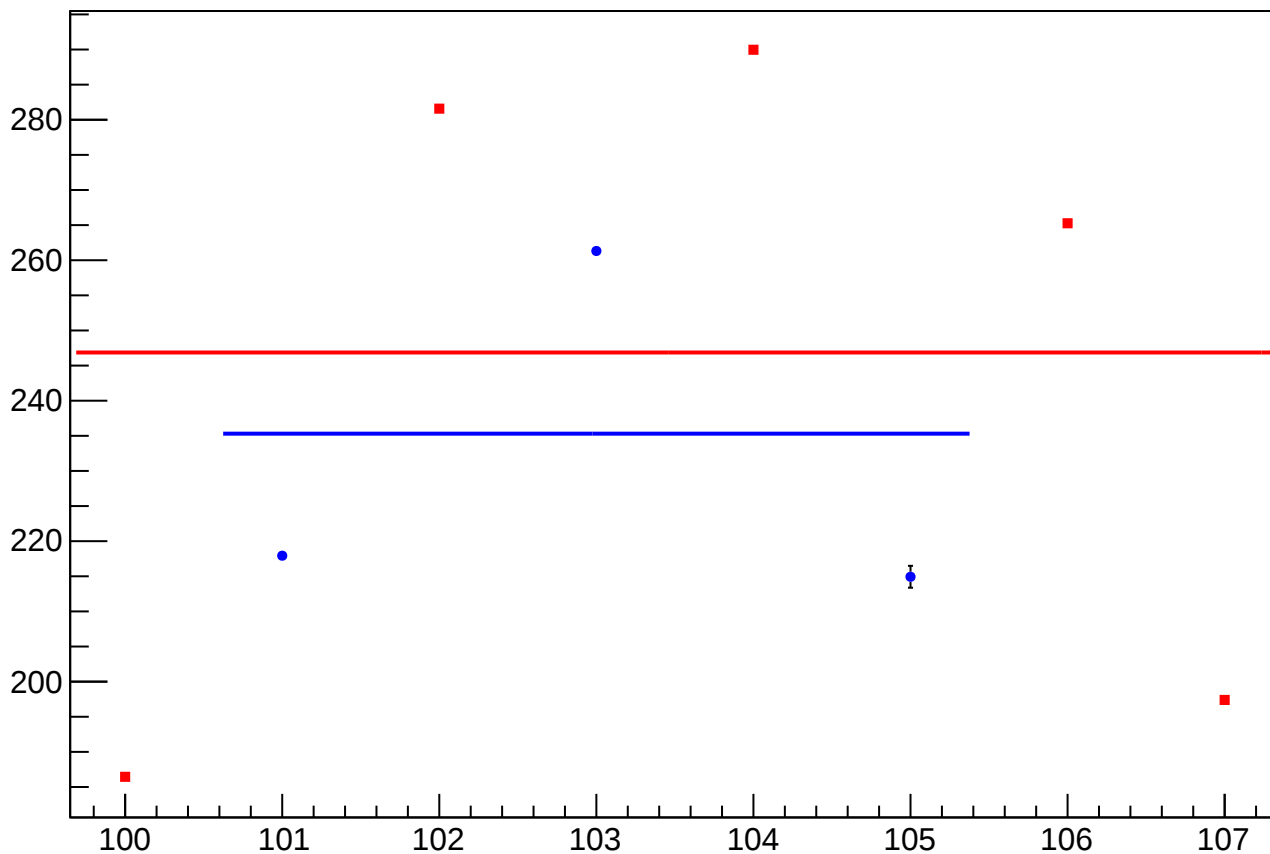
Right Out: -75.034+/-193.459  $\chi^2/\text{NDF}$ : 1.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-29.144+/-221.696  $\chi^2/\text{NDF}$ : 0.1/2

-75.034+/-193.459  $\chi^2/\text{NDF}$ : 1.0/4

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs slug



Right In: 235.307 $\pm$ 0.157  $\chi^2$ /NDF: 18449.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

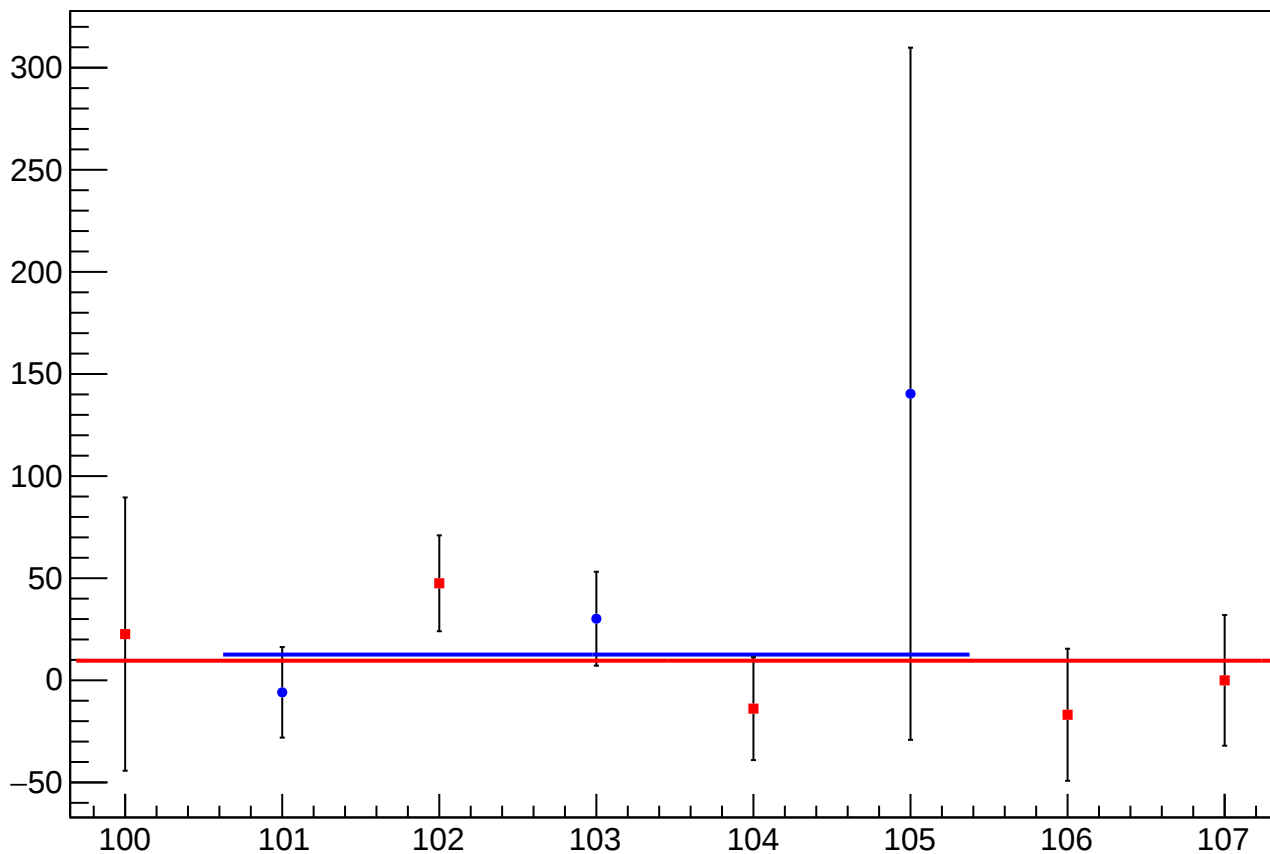
235.307 $\pm$ 0.157  $\chi^2$ /NDF: 18449.1/2

Right Out: 246.864 $\pm$ 0.137  $\chi^2$ /NDF: 95303.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

246.864 $\pm$ 0.137  $\chi^2$ /NDF: 95303.8/4

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs slug



Right In: 12.613+/-15.892  $\chi^2/\text{NDF}$ : 1.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

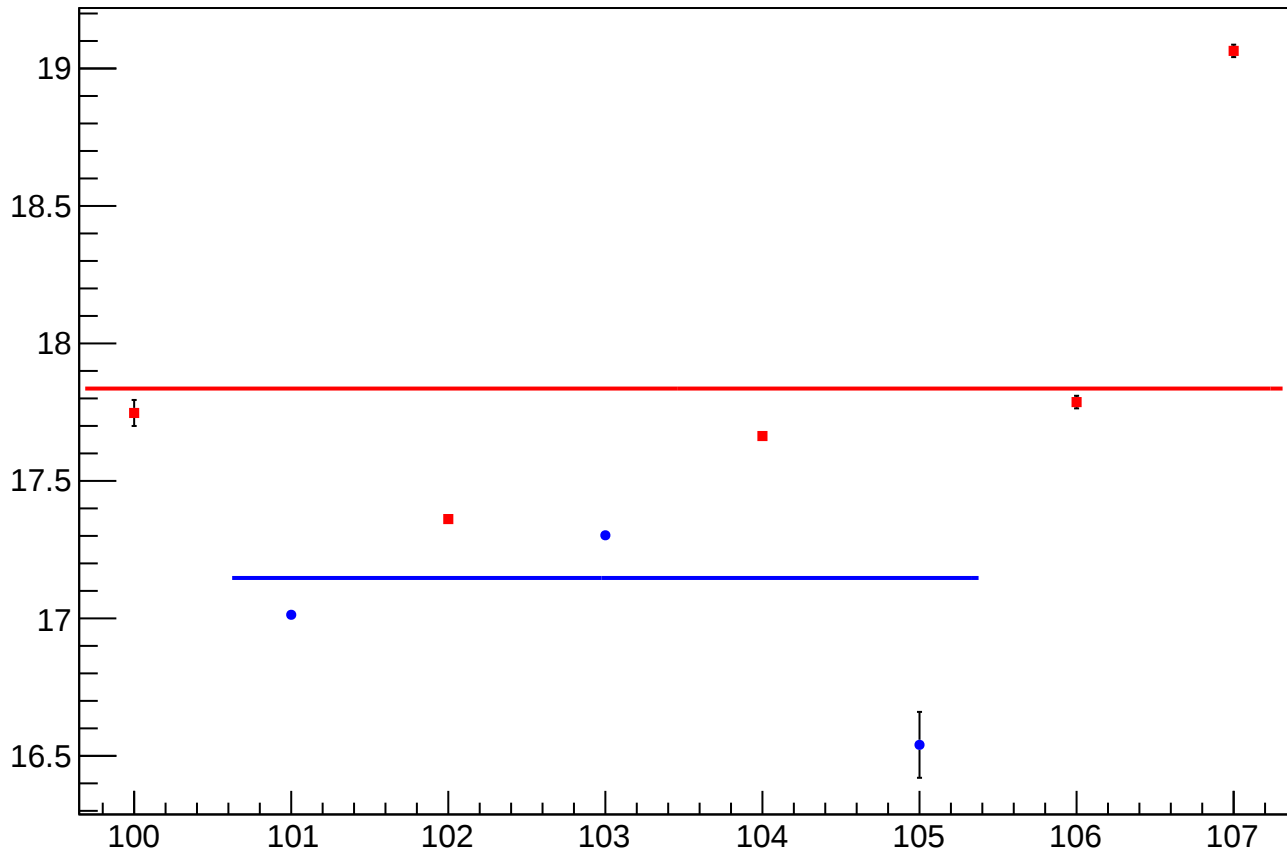
Right Out: 9.605+/-13.427  $\chi^2/\text{NDF}$ : 4.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

12.613+/-15.892  $\chi^2/\text{NDF}$ : 1.8/2

9.605+/-13.427  $\chi^2/\text{NDF}$ : 4.3/4

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs slug



Right In: 17.147 $\pm$ 0.011  $\chi^2$ /NDF: 189.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

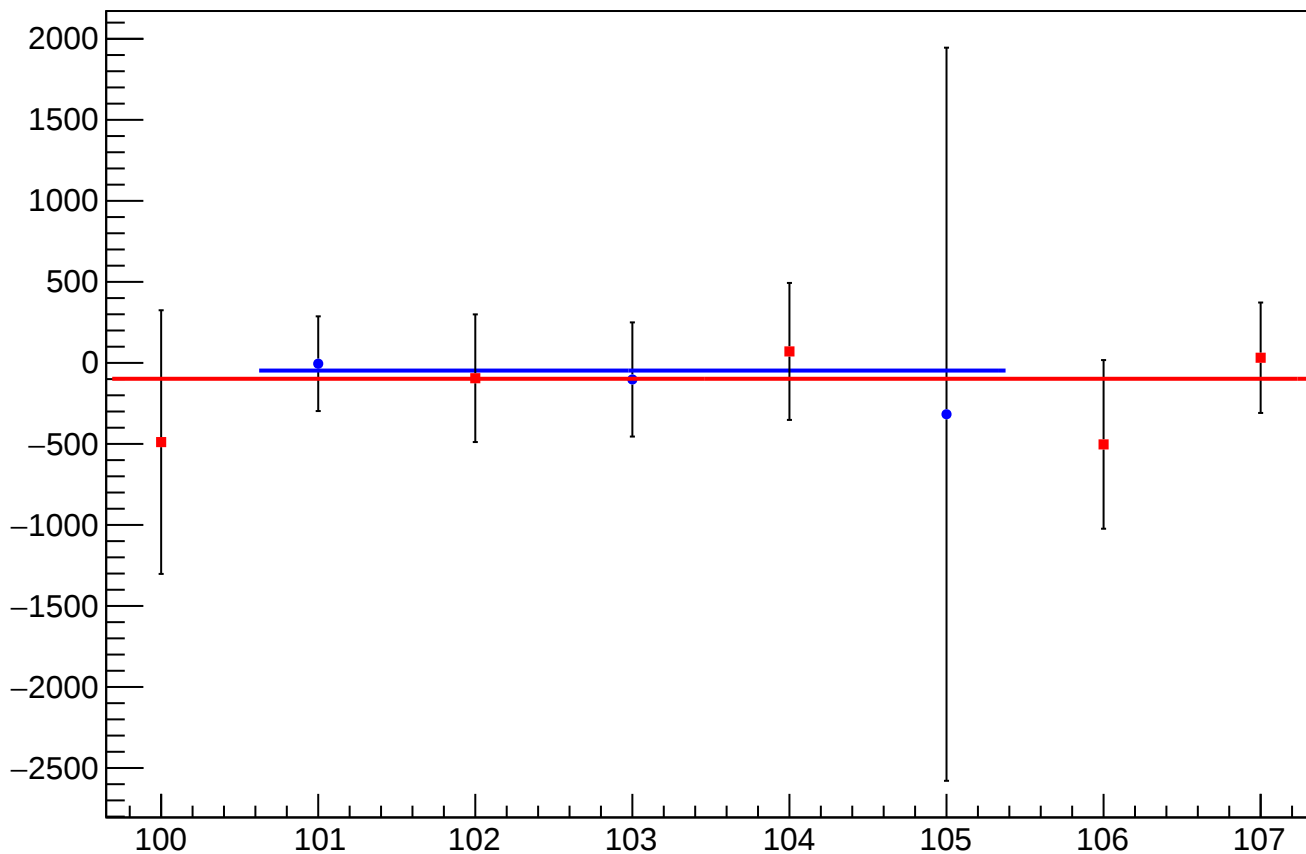
Right Out: 17.836 $\pm$ 0.009  $\chi^2$ /NDF: 3867.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

17.147 $\pm$ 0.011  $\chi^2$ /NDF: 189.7/2

17.836 $\pm$ 0.009  $\chi^2$ /NDF: 3867.5/4

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs slug



Right In: -47.267+/-223.831  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

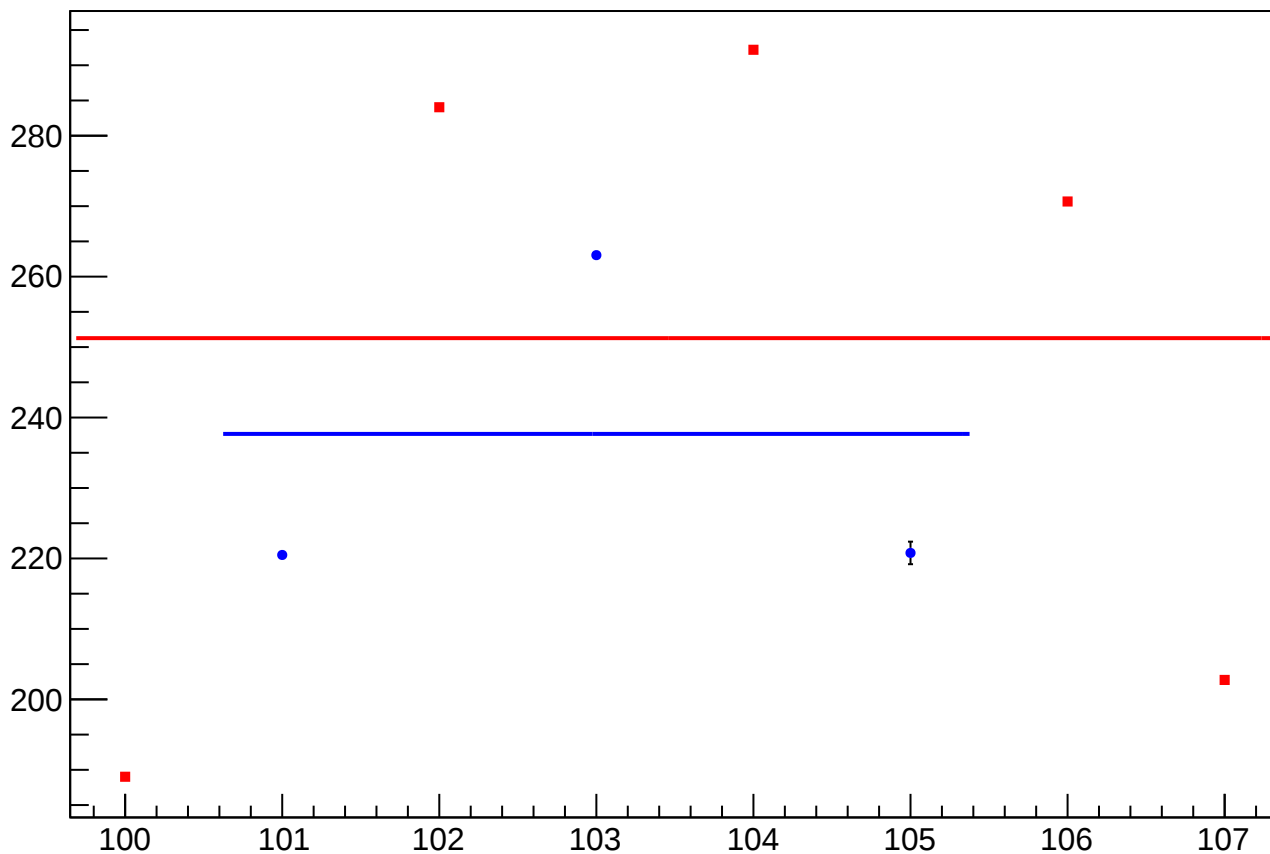
Right Out: -97.994+/-196.657  $\chi^2/\text{NDF}$ : 1.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-47.267+/-223.831  $\chi^2/\text{NDF}$ : 0.1/2

-97.994+/-196.657  $\chi^2/\text{NDF}$ : 1.1/4

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs slug



Right In: 237.677 $\pm$ 0.158  $\chi^2$ /NDF: 17396.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

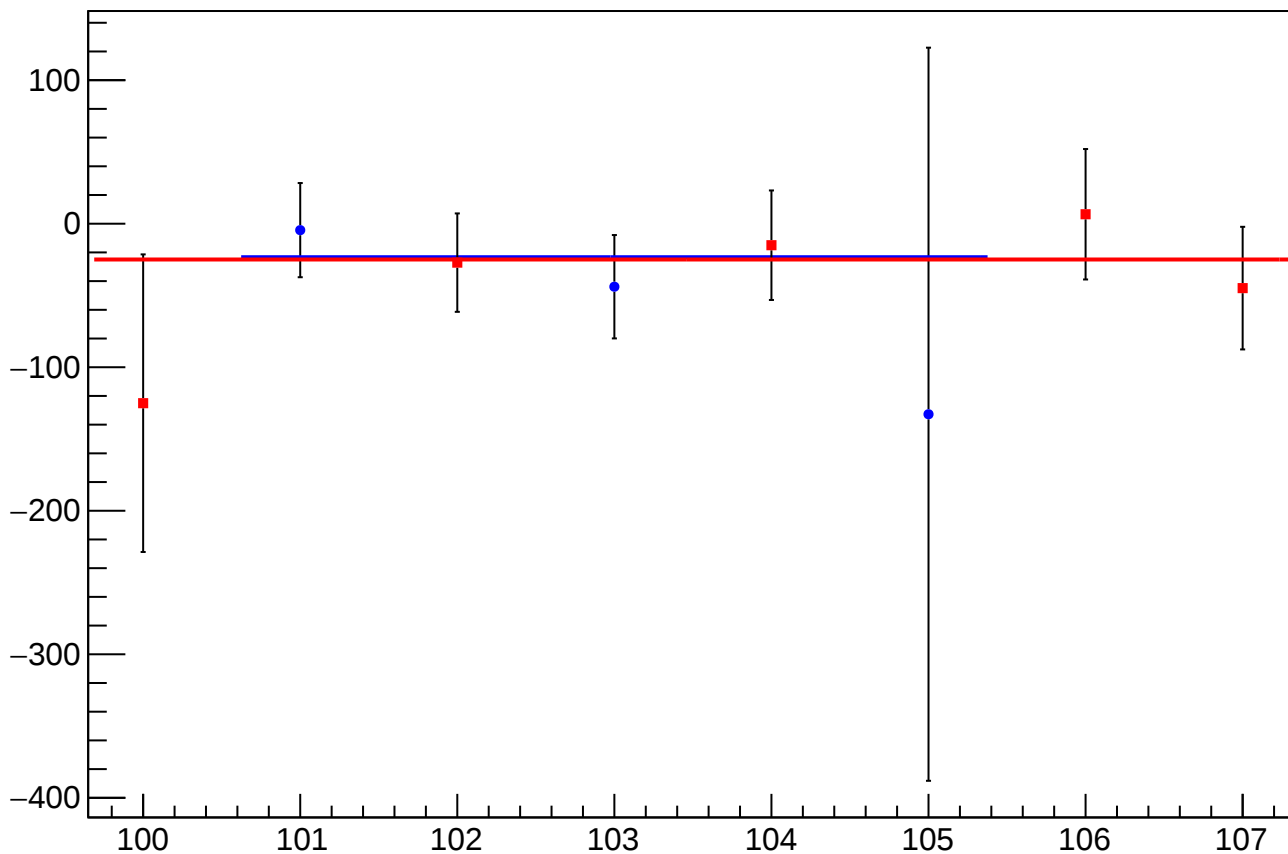
237.677 $\pm$ 0.158  $\chi^2$ /NDF: 17396.1/2

Right Out: 251.268 $\pm$ 0.139  $\chi^2$ /NDF: 87617.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

251.268 $\pm$ 0.139  $\chi^2$ /NDF: 87617.6/4

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs slug



Right In: -23.351+/-24.148  $\chi^2$ /NDF: 0.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

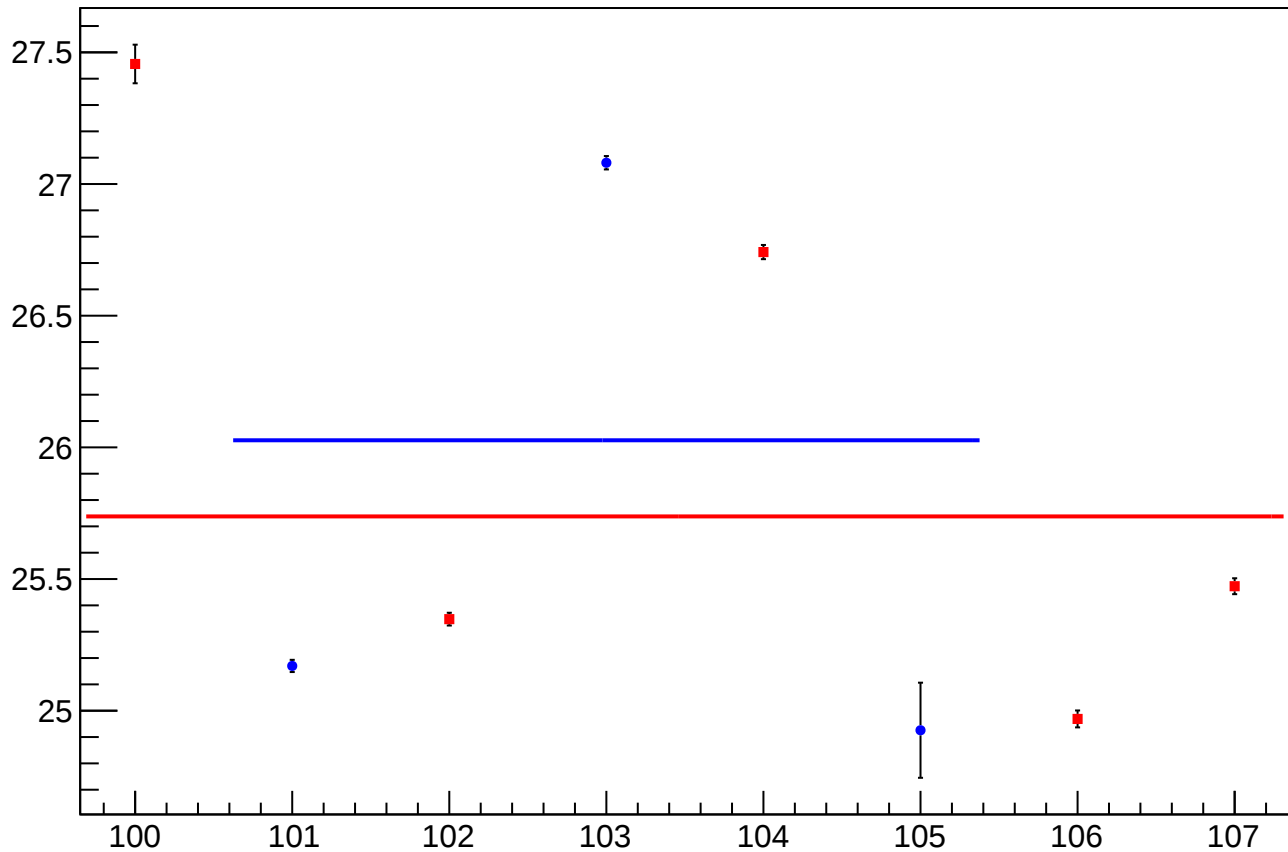
Right Out: -24.936+/-19.377  $\chi^2$ /NDF: 1.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-23.351+/-24.148  $\chi^2$ /NDF: 0.8/2

-24.936+/-19.377  $\chi^2$ /NDF: 1.7/4

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs slug



Right In: 26.027+/-0.017  $\chi^2/\text{NDF}$ : 3113.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

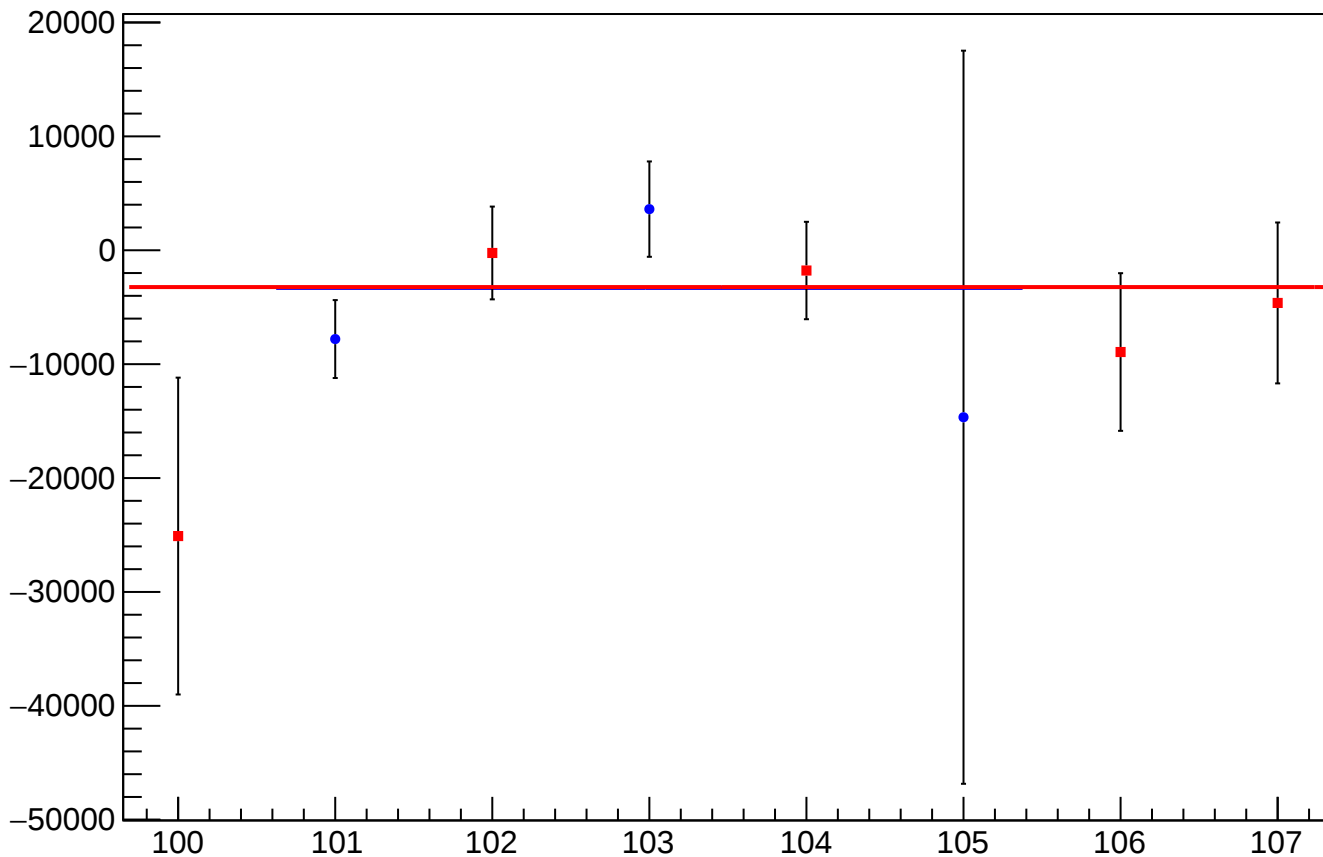
Right Out: 25.738+/-0.014  $\chi^2/\text{NDF}$ : 2842.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

26.027+/-0.017  $\chi^2/\text{NDF}$ : 3113.5/2

25.738+/-0.014  $\chi^2/\text{NDF}$ : 2842.6/4

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs slug



Right In: -3305.329+/-2639.828  $\chi^2/\text{NDF}$ : 4.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

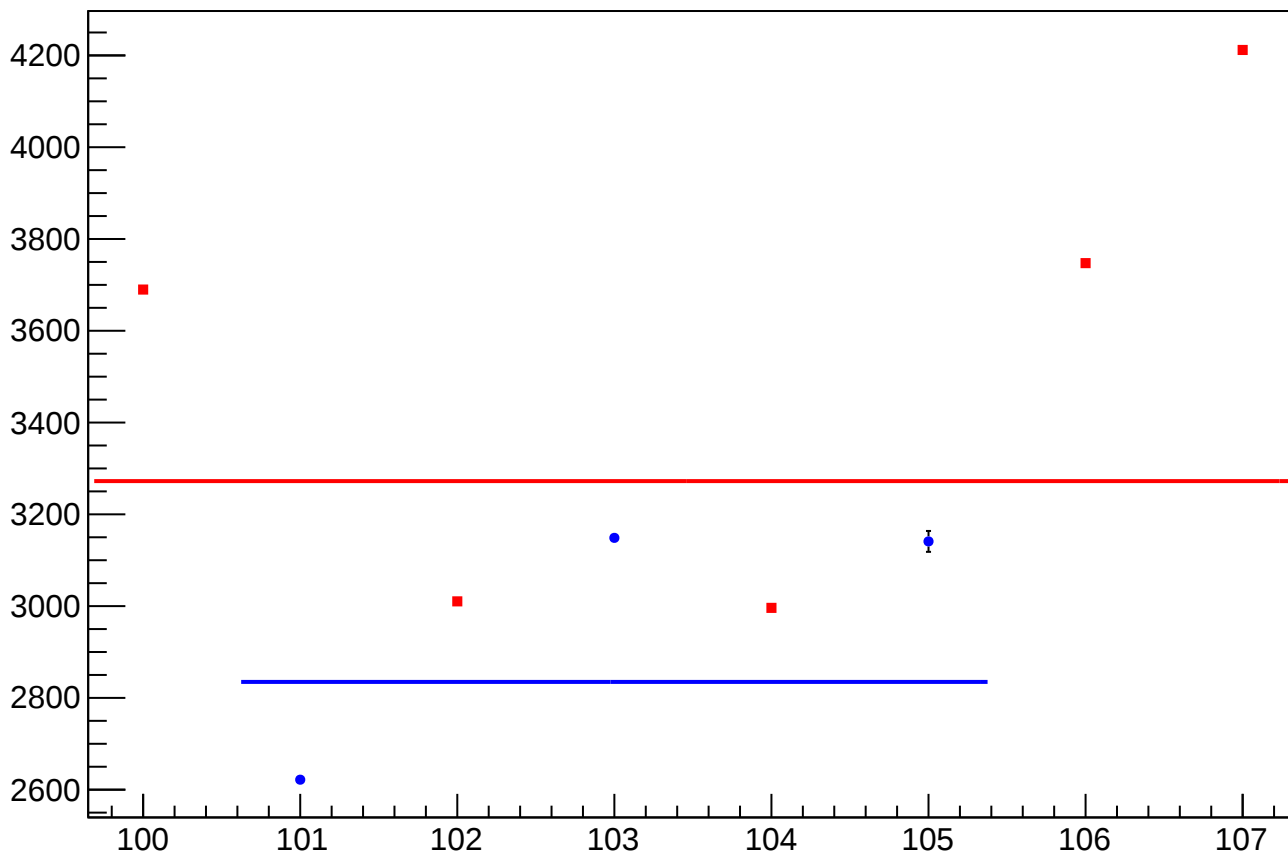
-3305.329+/-2639.828  $\chi^2/\text{NDF}$ : 4.6/2

Right Out: -3231.825+/-2491.727  $\chi^2/\text{NDF}$ : 3.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3231.825+/-2491.727  $\chi^2/\text{NDF}$ : 3.8/4

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs slug



Right In: 2834.834+/-1.867  $\chi^2/\text{NDF}$ : 19187.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

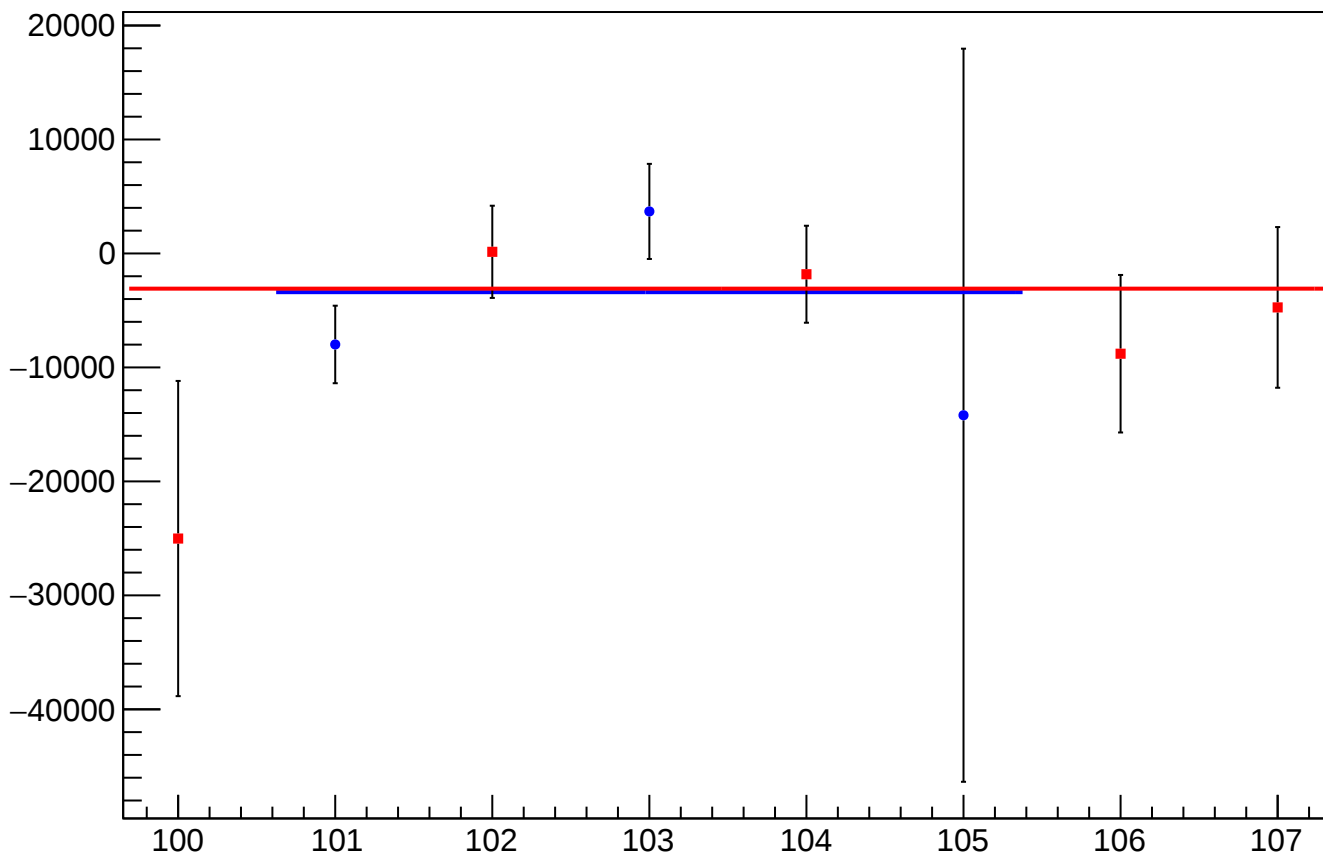
2834.834+/-1.867  $\chi^2/\text{NDF}$ : 19187.1/2

Right Out: 3272.422+/-1.762  $\chi^2/\text{NDF}$ : 63230.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3272.422+/-1.762  $\chi^2/\text{NDF}$ : 63230.4/4

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs slug



Right In: -3397.819+/-2627.445  $\chi^2$ /NDF: 4.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

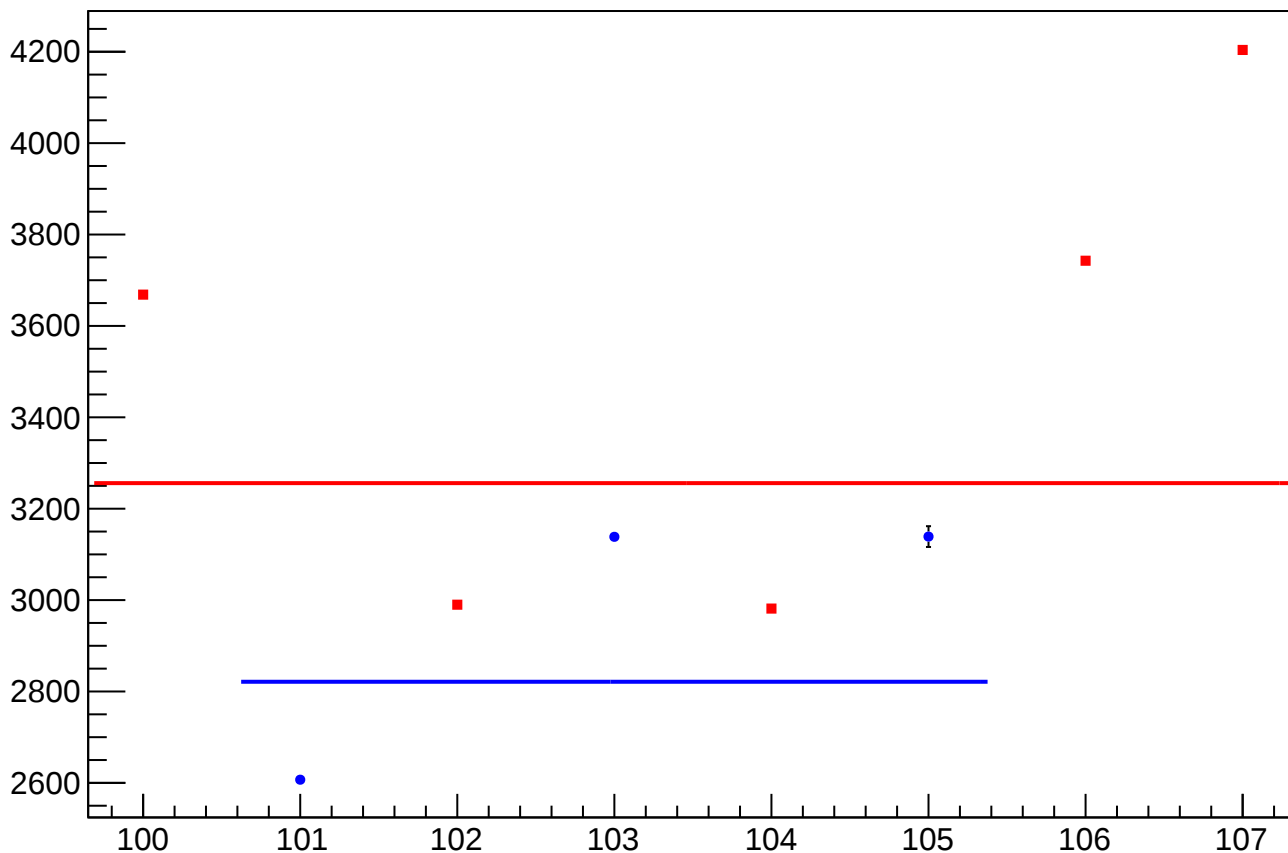
-3397.819+/-2627.445  $\chi^2$ /NDF: 4.8/2

Right Out: -3088.360+/-2479.698  $\chi^2$ /NDF: 4.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-3088.360+/-2479.698  $\chi^2$ /NDF: 4.0/4

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs slug



Right In: 2821.280+/-1.858  $\chi^2/\text{NDF}$ : 19696.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

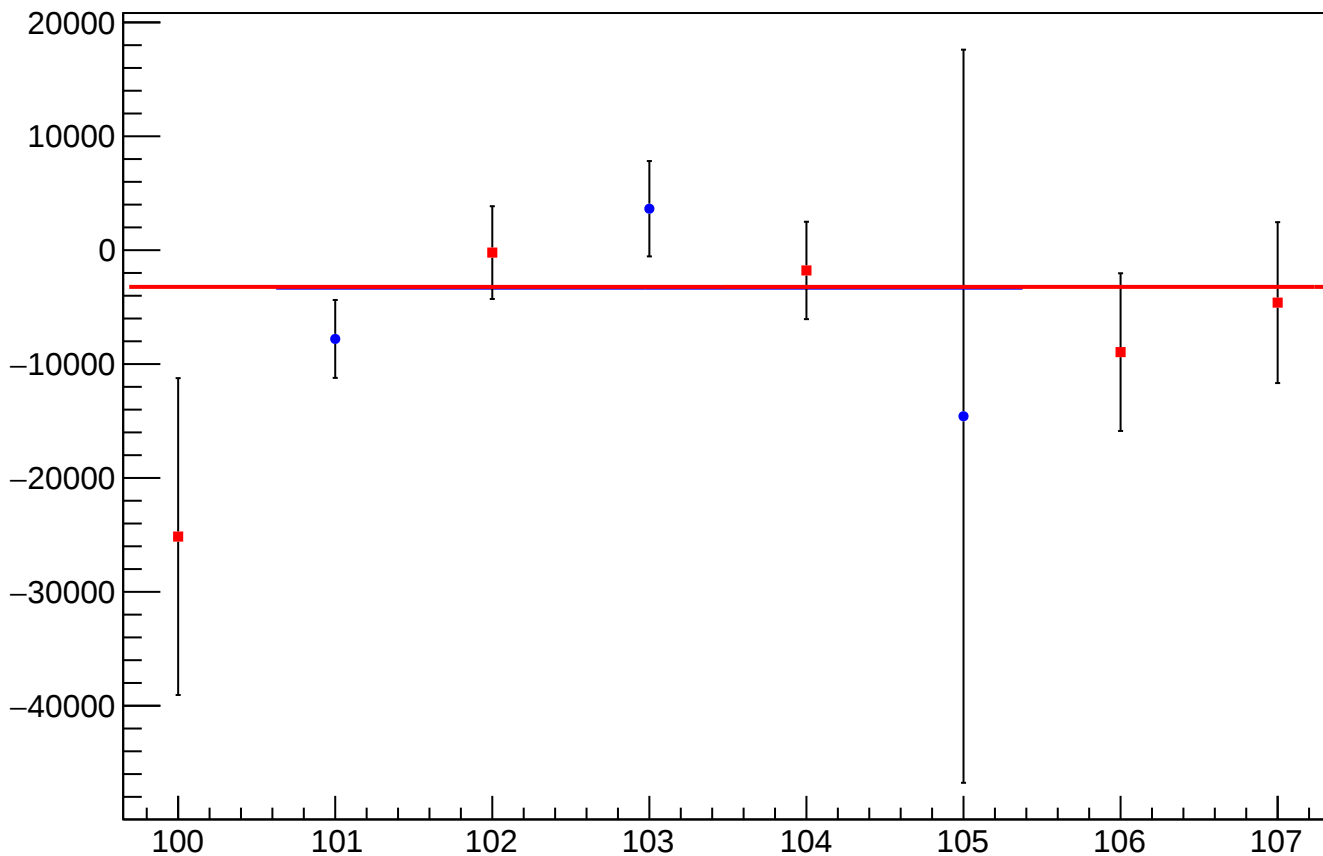
2821.280+/-1.858  $\chi^2/\text{NDF}$ : 19696.6/2

Right Out: 3255.969+/-1.753  $\chi^2/\text{NDF}$ : 64835.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3255.969+/-1.753  $\chi^2/\text{NDF}$ : 64835.3/4

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs slug



Right In: -3291.646 $\pm$ 2639.848  $\chi^2$ /NDF: 4.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

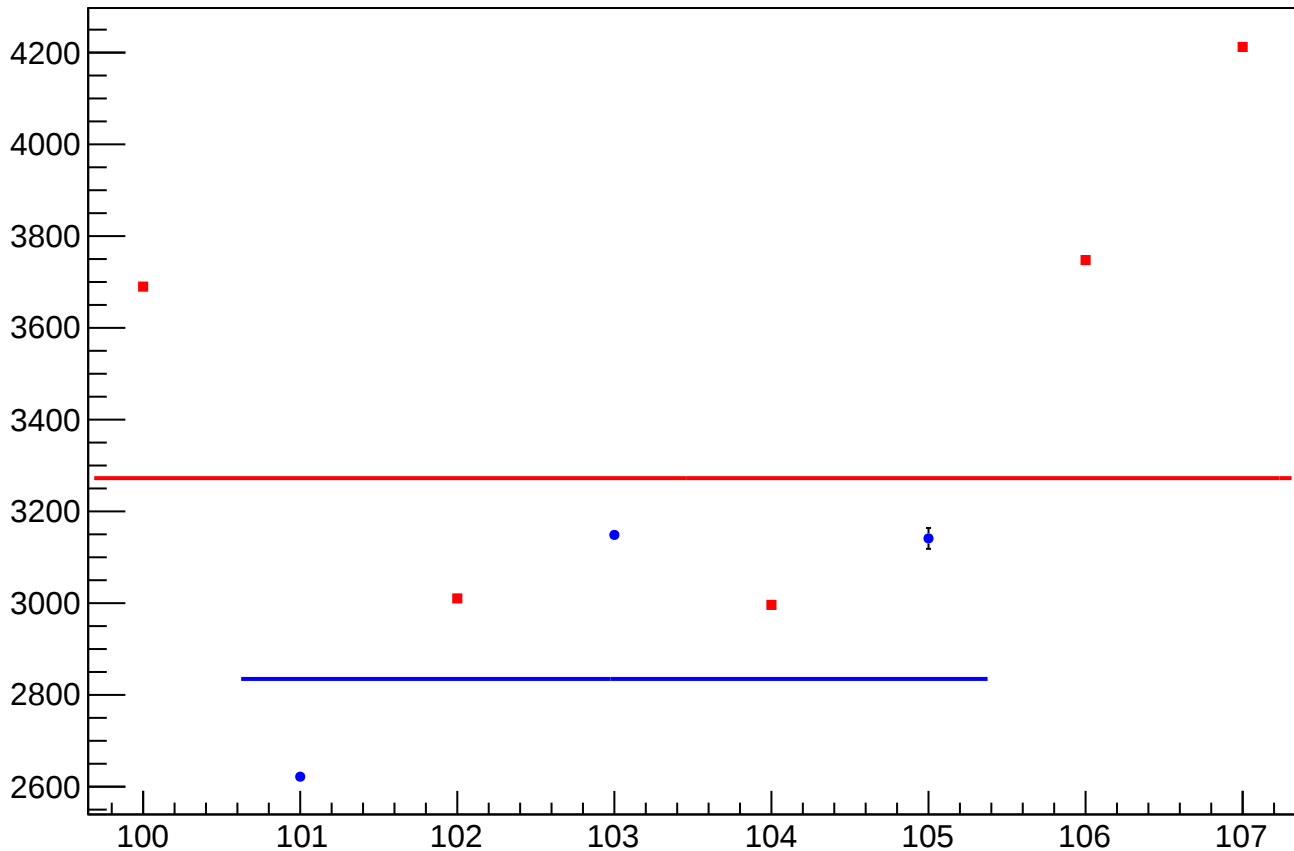
Right Out: -3223.317 $\pm$ 2491.793  $\chi^2$ /NDF: 3.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-3291.646 $\pm$ 2639.848  $\chi^2$ /NDF: 4.6/2

-3223.317 $\pm$ 2491.793  $\chi^2$ /NDF: 3.9/4

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs slug



Right In: 2834.856 $\pm$ 1.867  $\chi^2$ /NDF: 19188.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

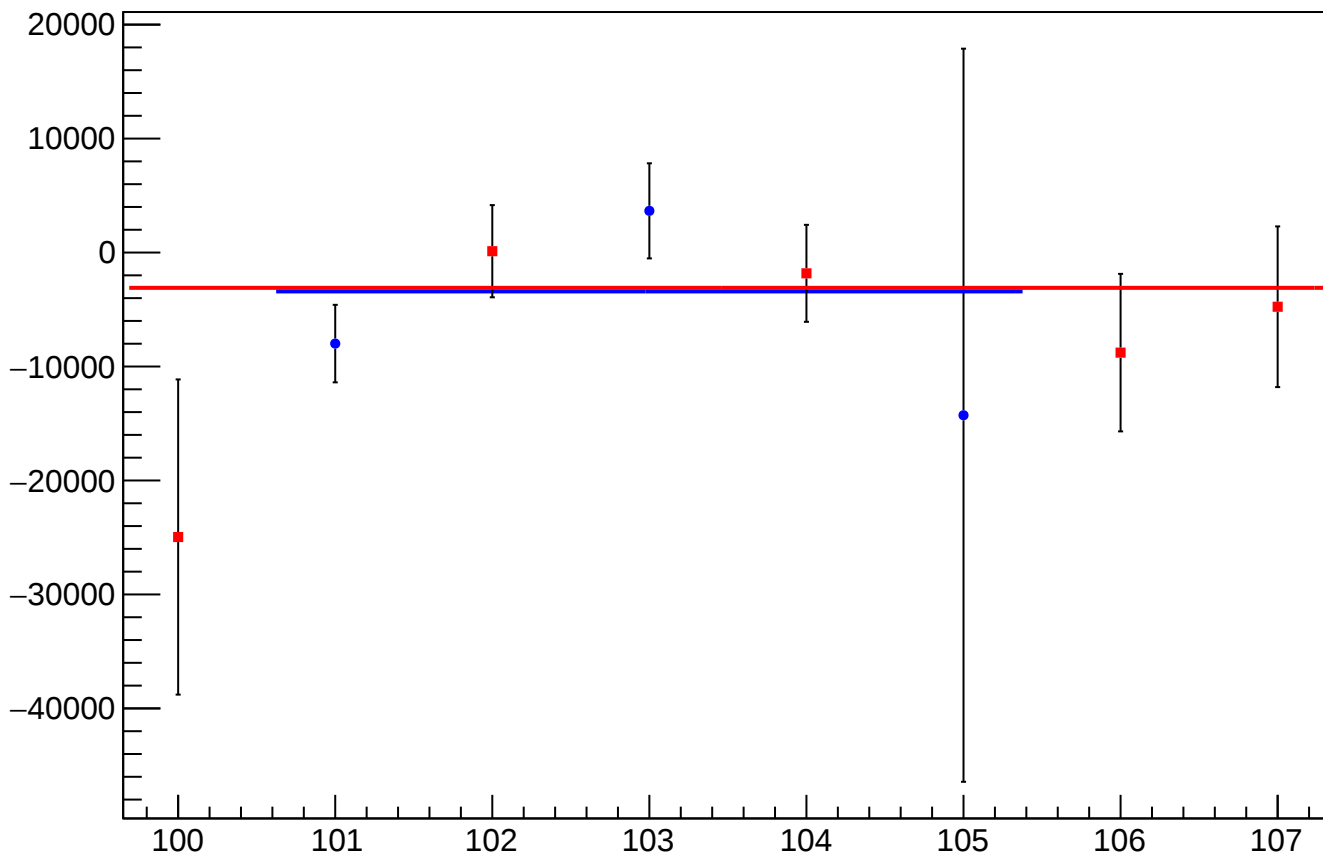
2834.856 $\pm$ 1.867  $\chi^2$ /NDF: 19188.3/2

Right Out: 3272.489 $\pm$ 1.762  $\chi^2$ /NDF: 63266.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3272.489 $\pm$ 1.762  $\chi^2$ /NDF: 63266.3/4

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs slug



Right In: -3411.457+/-2627.351  $\chi^2$ /NDF: 4.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

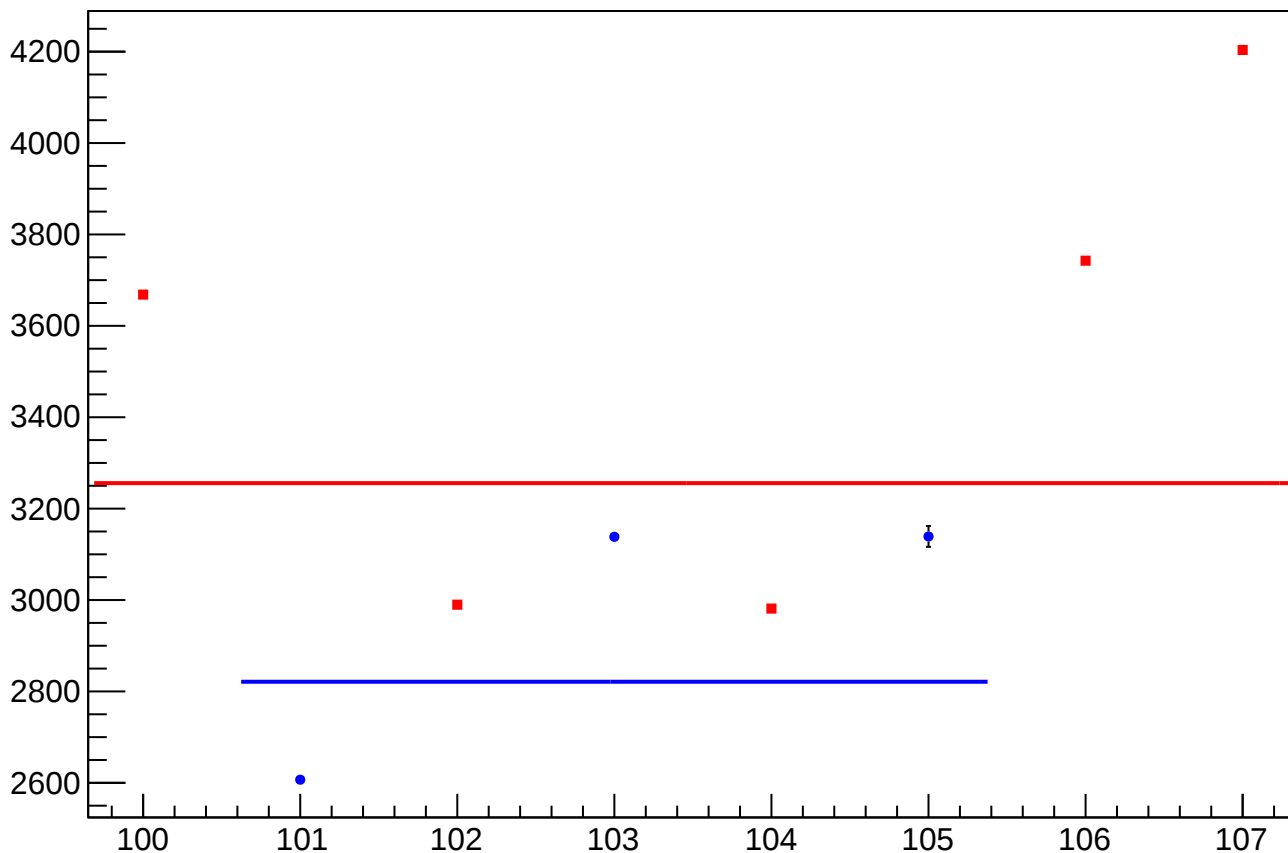
Right Out: -3096.108+/-2479.595  $\chi^2$ /NDF: 4.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-3411.457+/-2627.351  $\chi^2$ /NDF: 4.8/2

-3096.108+/-2479.595  $\chi^2$ /NDF: 4.0/4

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs slug



Right In: 2821.178+/-1.858  $\chi^2/\text{NDF}$ : 19696.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

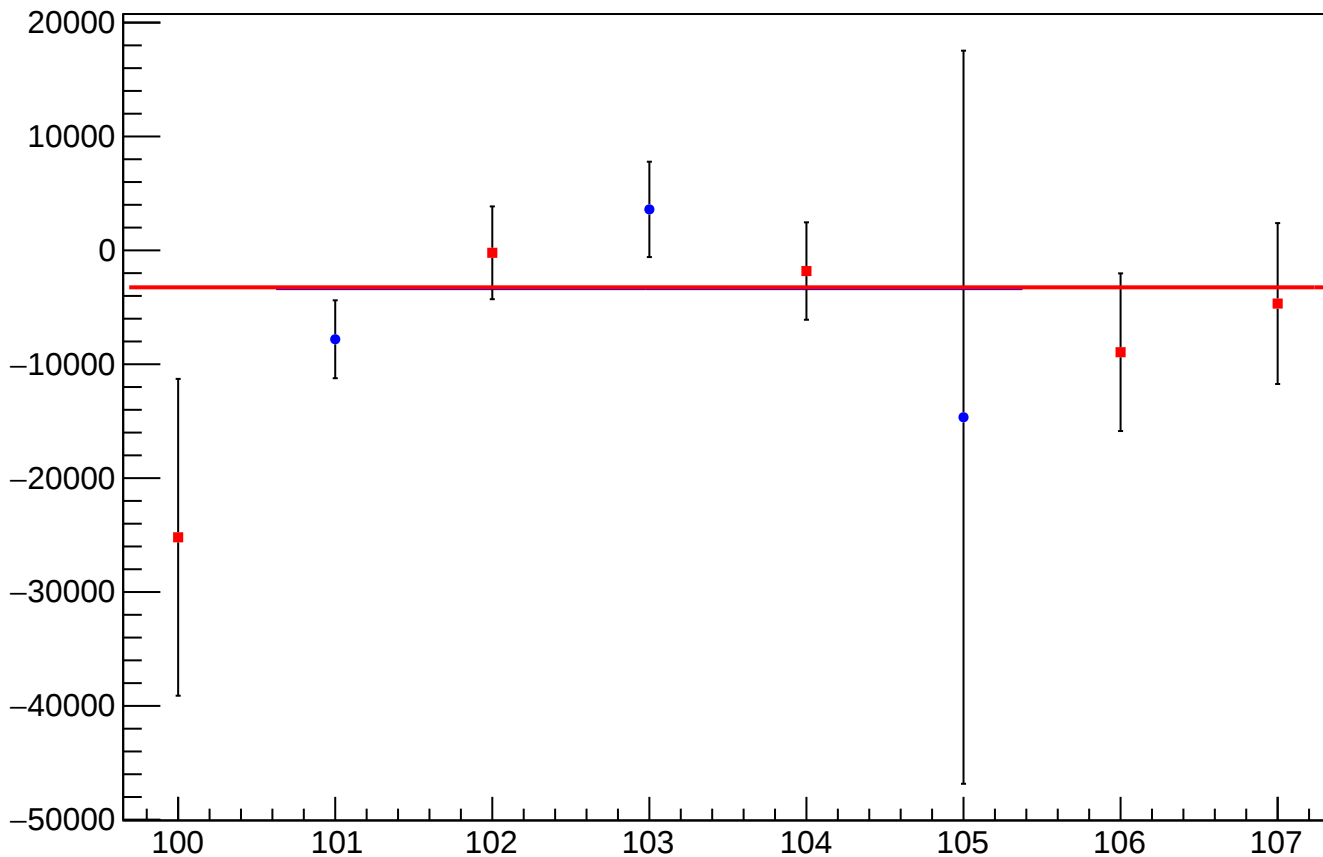
2821.178+/-1.858  $\chi^2/\text{NDF}$ : 19696.8/2

Right Out: 3255.835+/-1.753  $\chi^2/\text{NDF}$ : 64835.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3255.835+/-1.753  $\chi^2/\text{NDF}$ : 64835.9/4

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs slug



Right In: -3316.515+/-2640.074  $\chi^2/\text{NDF}$ : 4.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

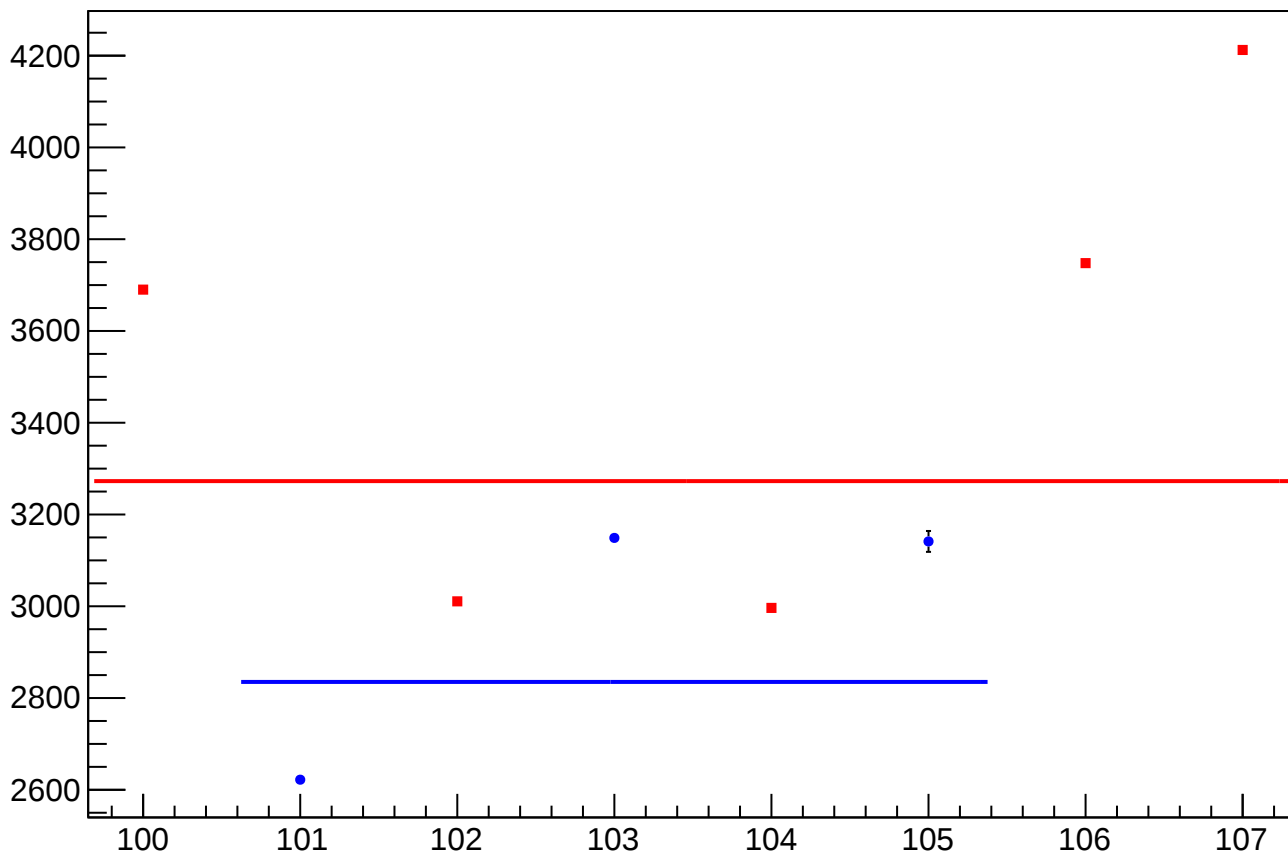
Right Out: -3245.454+/-2491.995  $\chi^2/\text{NDF}$ : 3.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3316.515+/-2640.074  $\chi^2/\text{NDF}$ : 4.6/2

-3245.454+/-2491.995  $\chi^2/\text{NDF}$ : 3.9/4

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs slug



Right In: 2835.103+/-1.867  $\chi^2/\text{NDF}$ : 19182.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

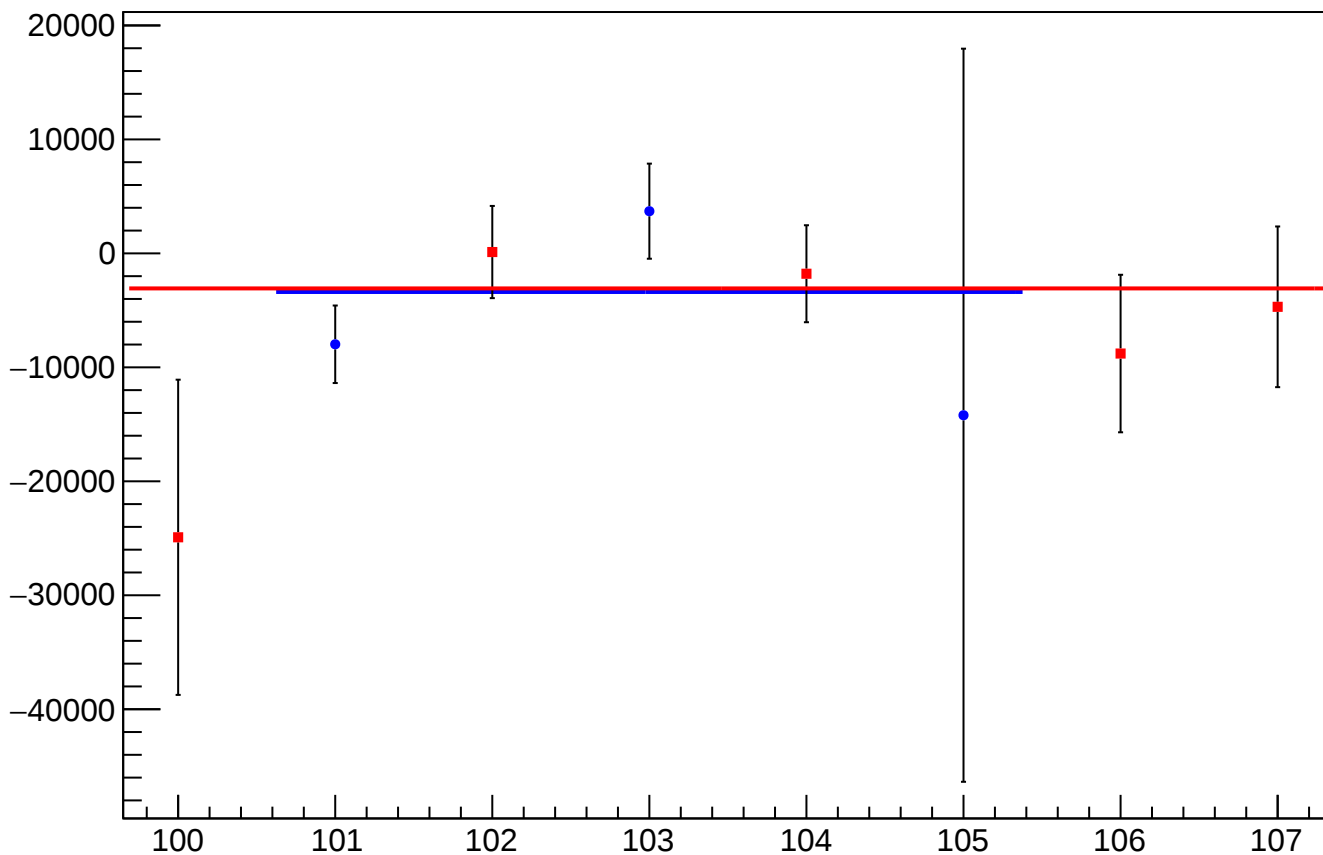
2835.103+/-1.867  $\chi^2/\text{NDF}$ : 19182.3/2

Right Out: 3272.766+/-1.762  $\chi^2/\text{NDF}$ : 63238.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3272.766+/-1.762  $\chi^2/\text{NDF}$ : 63238.7/4

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs slug



Right In: -3386.640 $\pm$ 2627.448  $\chi^2$ /NDF: 4.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

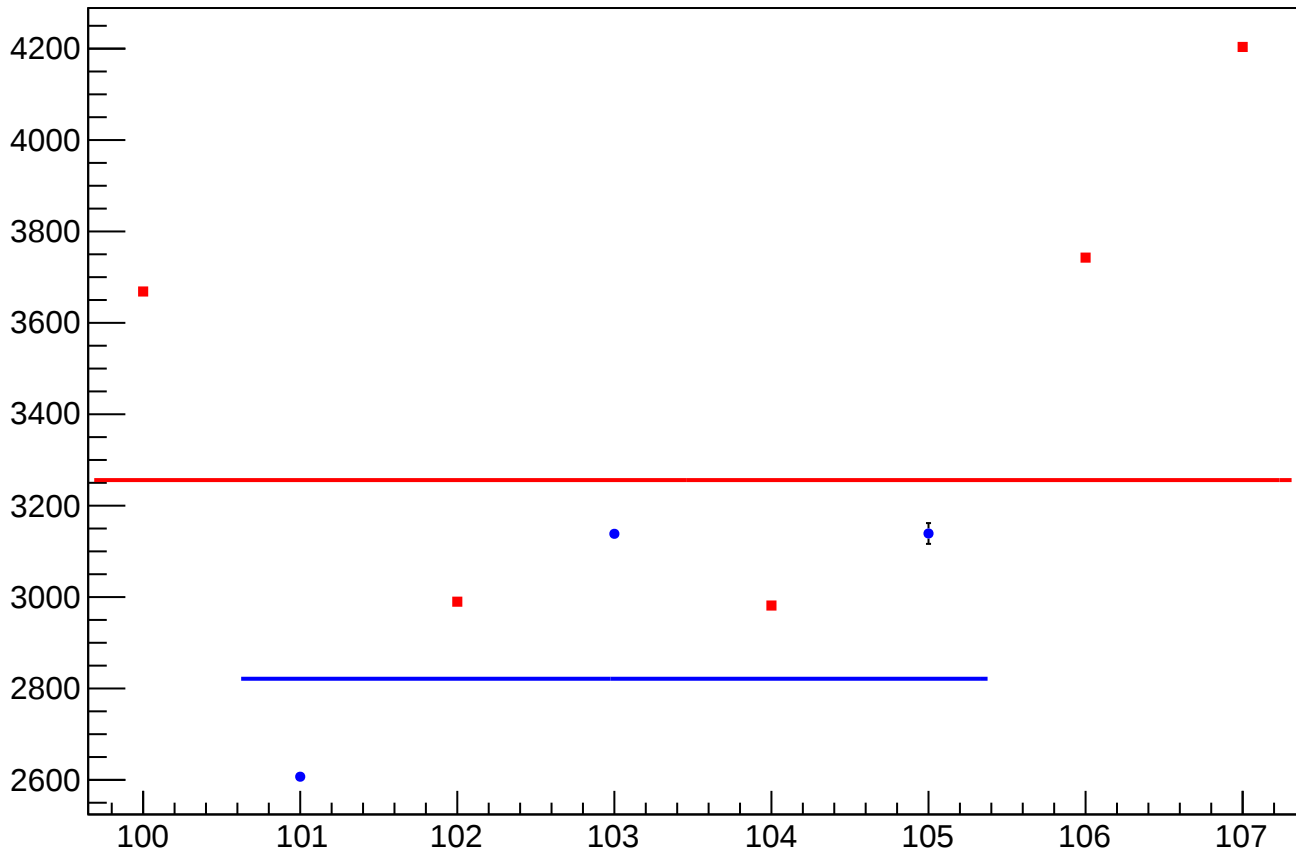
Right Out: -3075.230 $\pm$ 2479.698  $\chi^2$ /NDF: 3.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-3386.640 $\pm$ 2627.448  $\chi^2$ /NDF: 4.8/2

-3075.230 $\pm$ 2479.698  $\chi^2$ /NDF: 3.9/4

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs slug



Right In: 2821.285 $\pm$ 1.858  $\chi^2$ /NDF: 19691.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

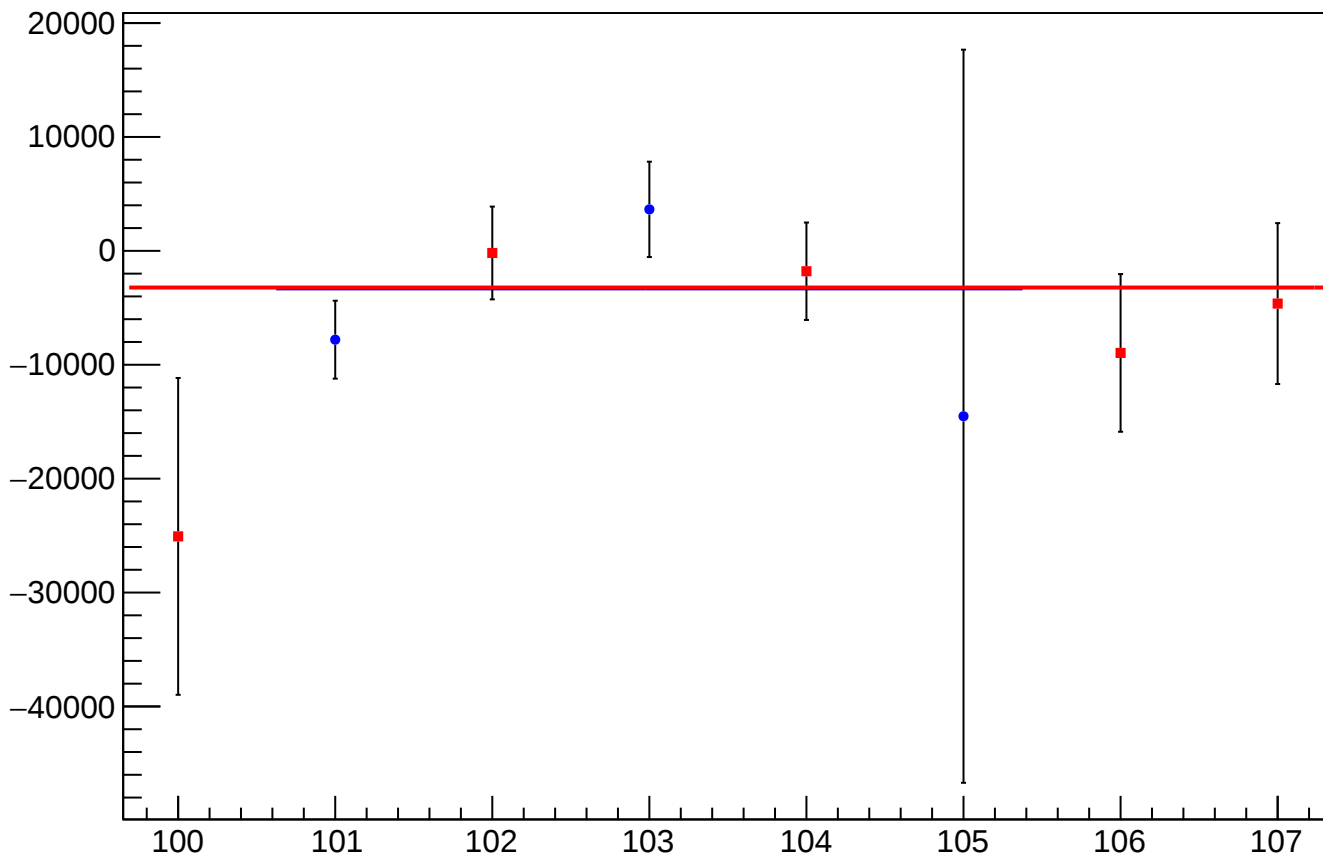
2821.285 $\pm$ 1.858  $\chi^2$ /NDF: 19691.9/2

Right Out: 3255.974 $\pm$ 1.753  $\chi^2$ /NDF: 64823.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3255.974 $\pm$ 1.753  $\chi^2$ /NDF: 64823.4/4

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs slug



Right In: -3293.361 $\pm$ 2640.039  $\chi^2$ /NDF: 4.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

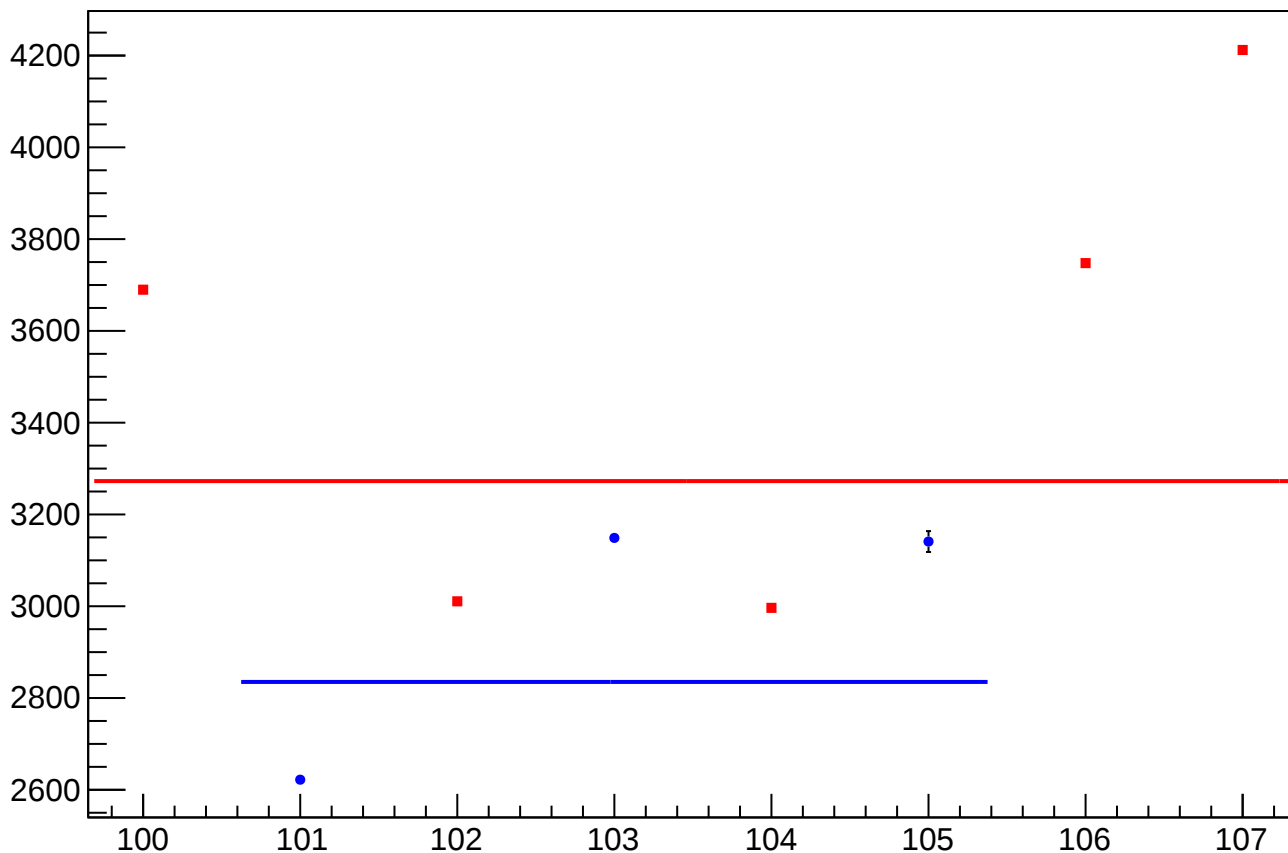
Right Out: -3219.713 $\pm$ 2491.974  $\chi^2$ /NDF: 3.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-3293.361 $\pm$ 2640.039  $\chi^2$ /NDF: 4.6/2

-3219.713 $\pm$ 2491.974  $\chi^2$ /NDF: 3.9/4

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs slug



Right In: 2835.067+/-1.867  $\chi^2/\text{NDF}$ : 19175.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

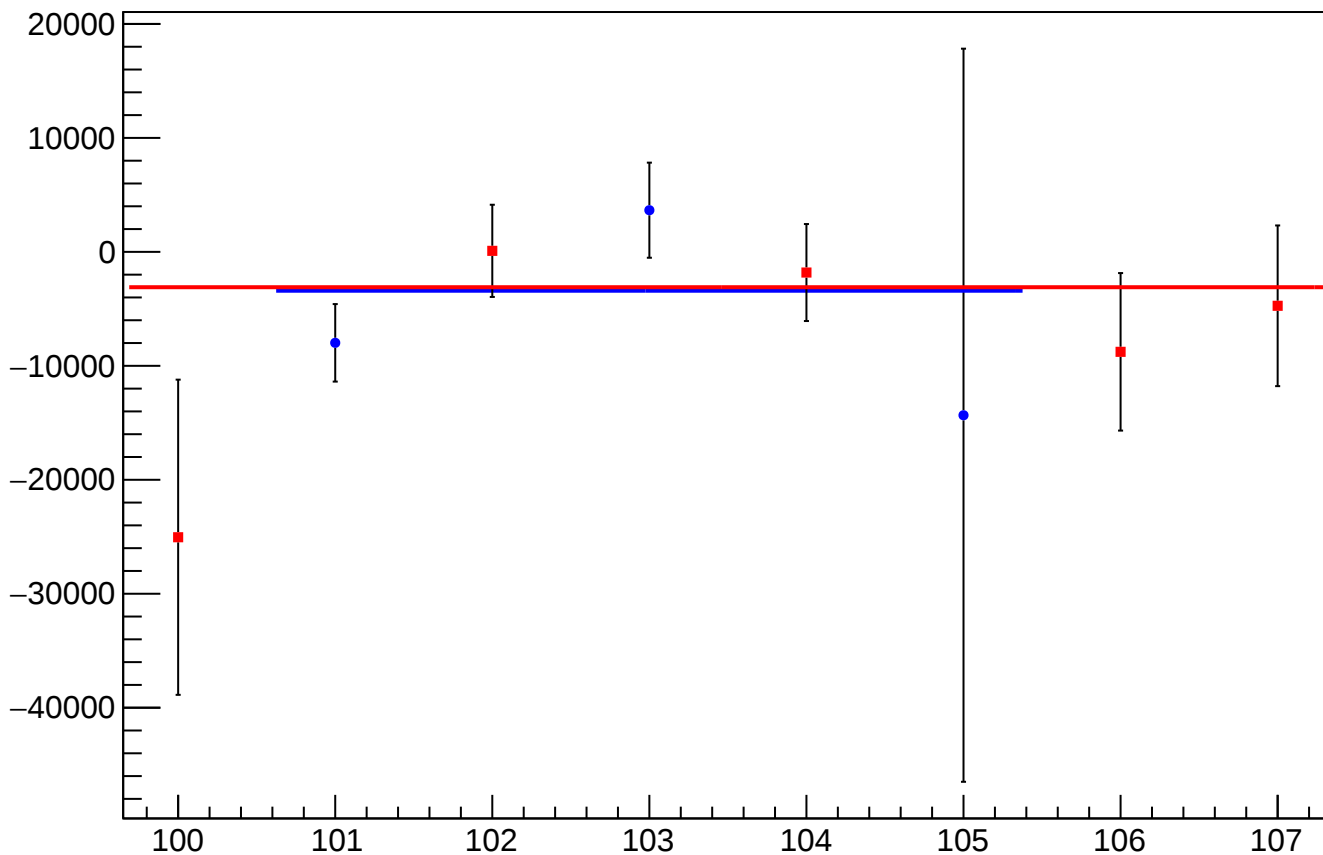
2835.067+/-1.867  $\chi^2/\text{NDF}$ : 19175.8/2

Right Out: 3272.753+/-1.762  $\chi^2/\text{NDF}$ : 63213.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3272.753+/-1.762  $\chi^2/\text{NDF}$ : 63213.1/4

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs slug



Right In: -3409.469+/-2627.467  $\chi^2$ /NDF: 4.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

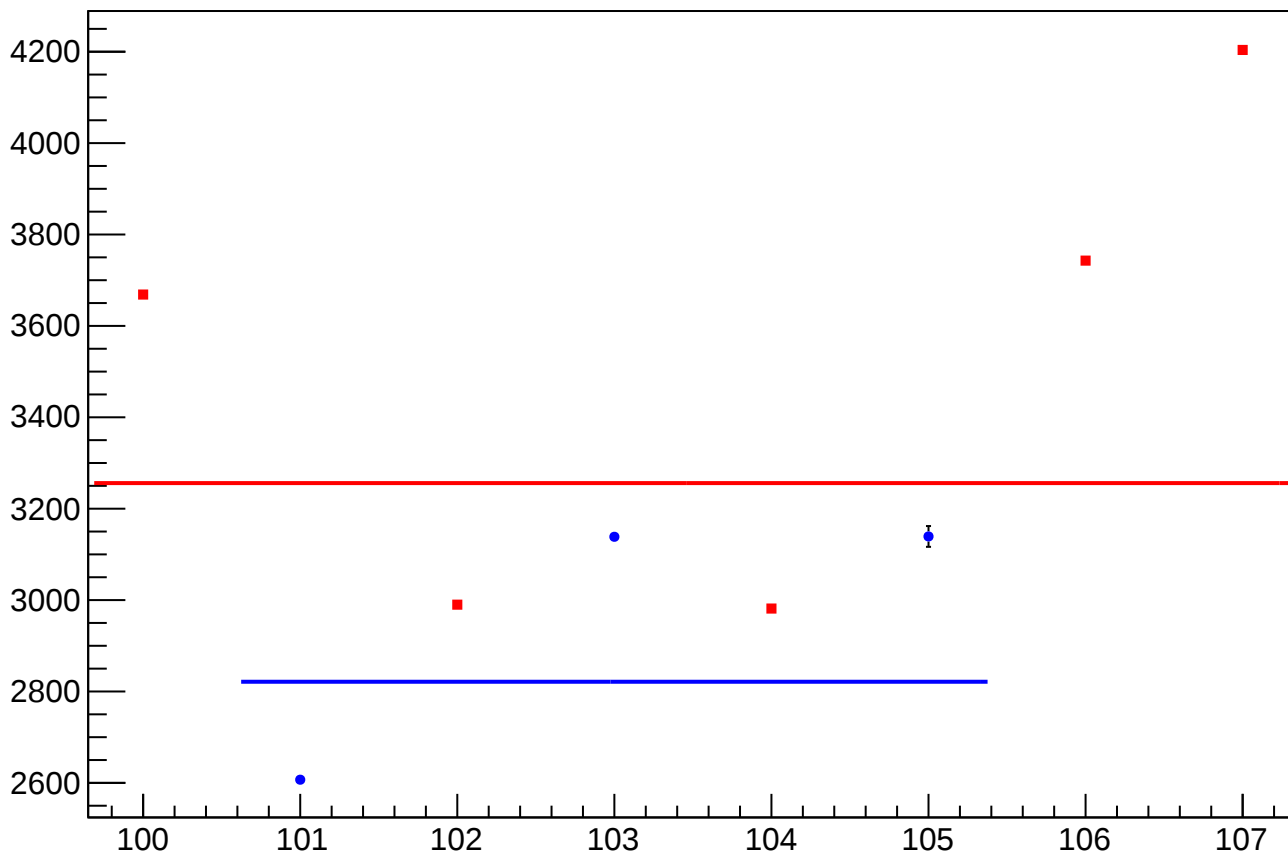
-3409.469+/-2627.467  $\chi^2$ /NDF: 4.8/2

Right Out: -3102.142+/-2479.737  $\chi^2$ /NDF: 4.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-3102.142+/-2479.737  $\chi^2$ /NDF: 4.0/4

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs slug



Right In: 2821.302 $\pm$ 1.858  $\chi^2$ /NDF: 19700.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

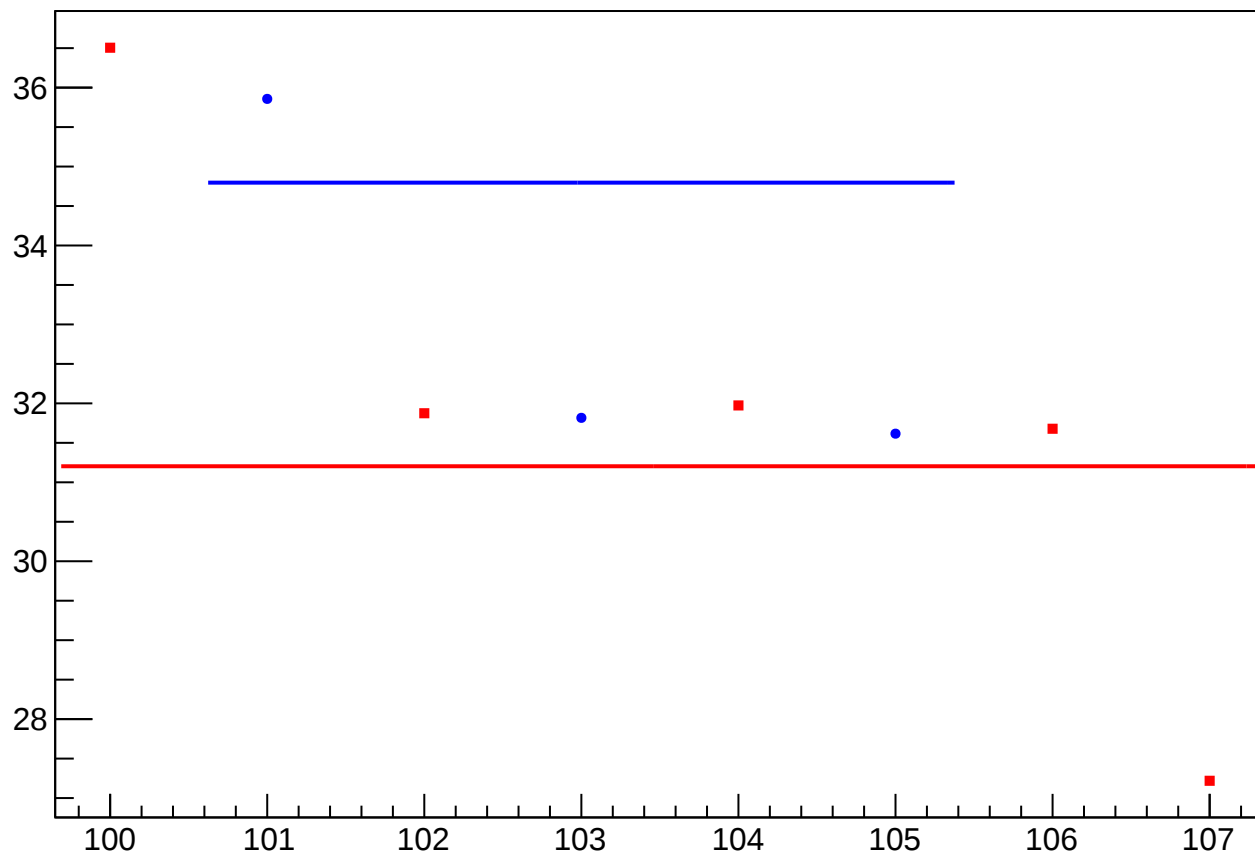
2821.302 $\pm$ 1.858  $\chi^2$ /NDF: 19700.1/2

Right Out: 3256.022 $\pm$ 1.753  $\chi^2$ /NDF: 64833.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3256.022 $\pm$ 1.753  $\chi^2$ /NDF: 64833.1/4

# yield\_usl\_mean vs slug



Right In: 34.796 $\pm$ 0.000  $\chi^2$ /NDF: 244304185.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

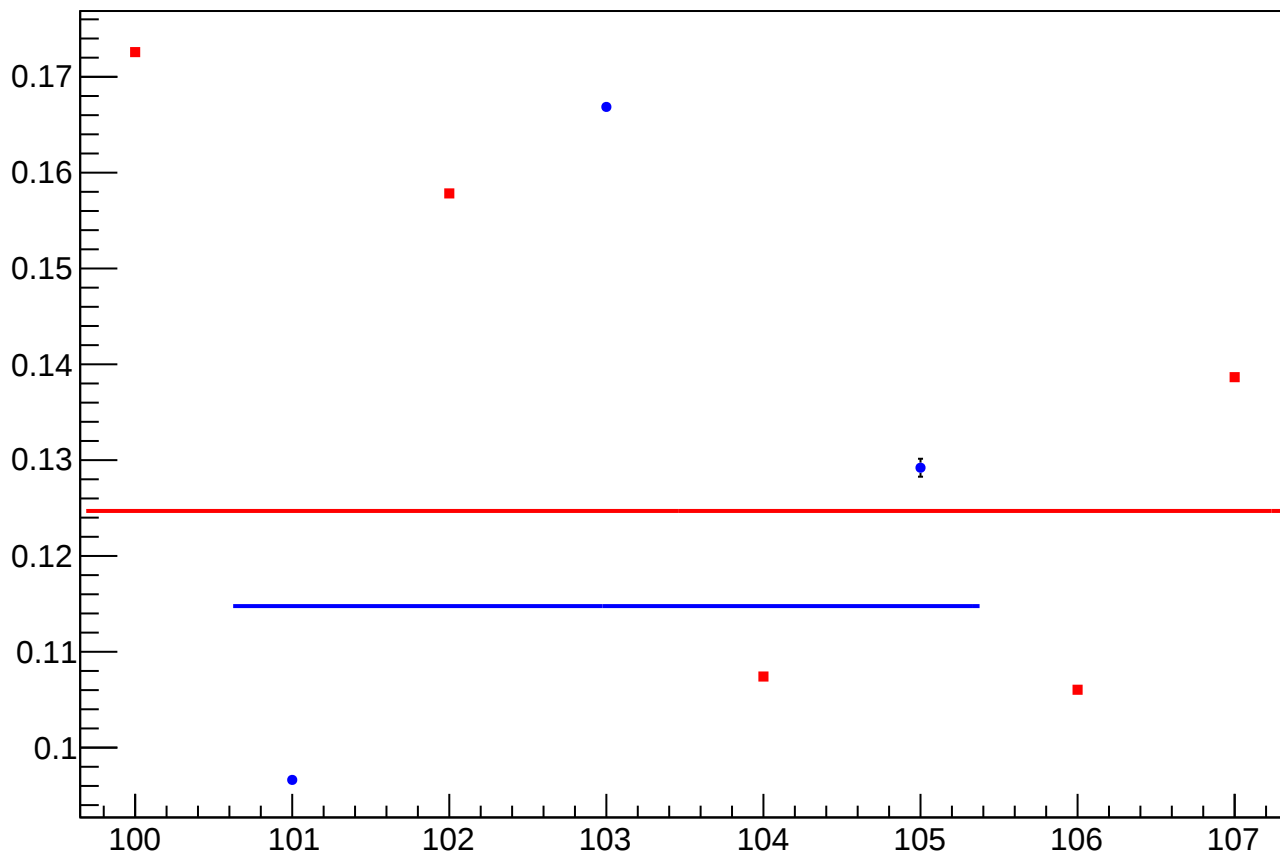
Right Out: 31.203 $\pm$ 0.000  $\chi^2$ /NDF: 353358360.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

34.796 $\pm$ 0.000  $\chi^2$ /NDF: 244304185.8/2

31.203 $\pm$ 0.000  $\chi^2$ /NDF: 353358360.3/4

# yield\_usl\_rms vs slug



Right In: 0.115+/-0.000  $\chi^2/\text{NDF}$ : 144343.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

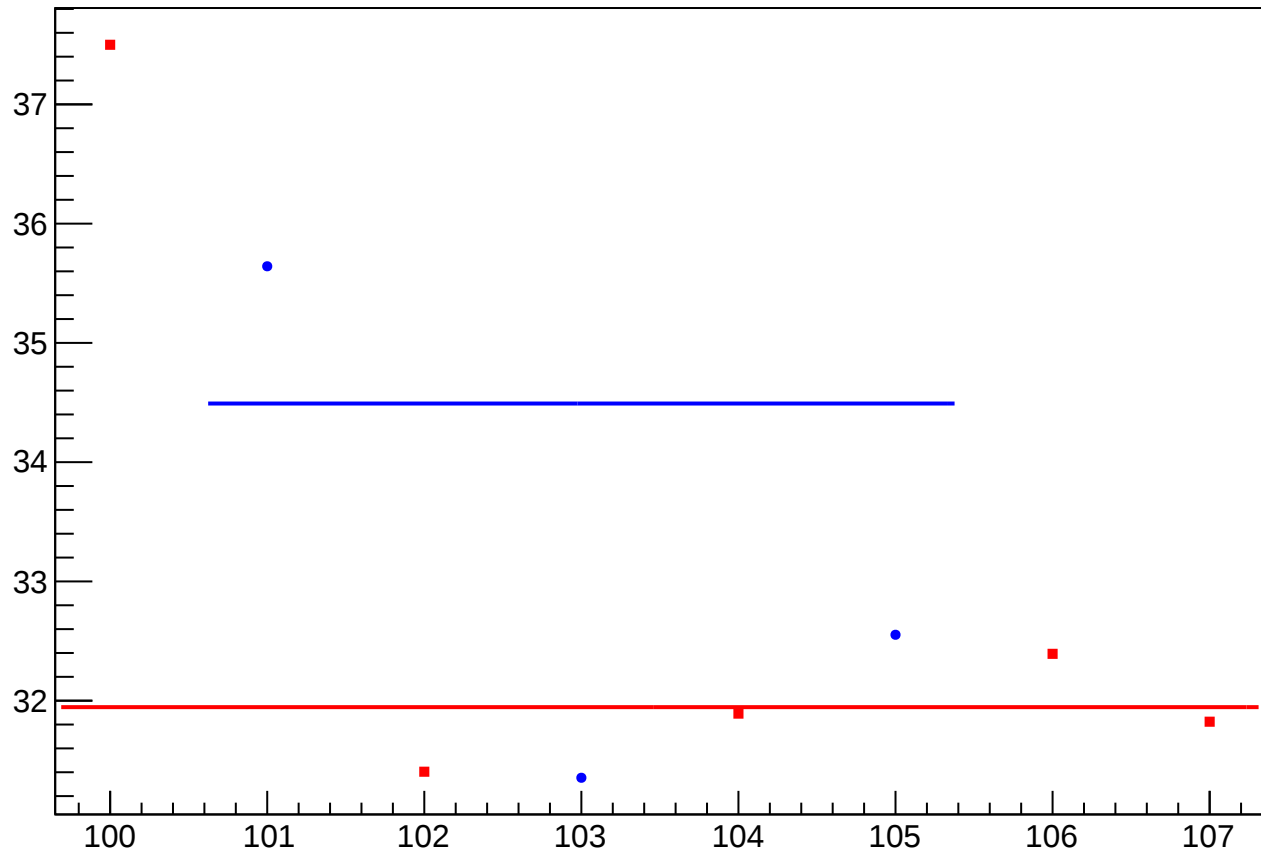
Right Out: 0.125+/-0.000  $\chi^2/\text{NDF}$ : 97170.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.115+/-0.000  $\chi^2/\text{NDF}$ : 144343.3/2

0.125+/-0.000  $\chi^2/\text{NDF}$ : 97170.8/4

# yield\_usr\_mean vs slug



Right In: 34.492+/-0.000  $\chi^2/\text{NDF}$ : 199672337.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

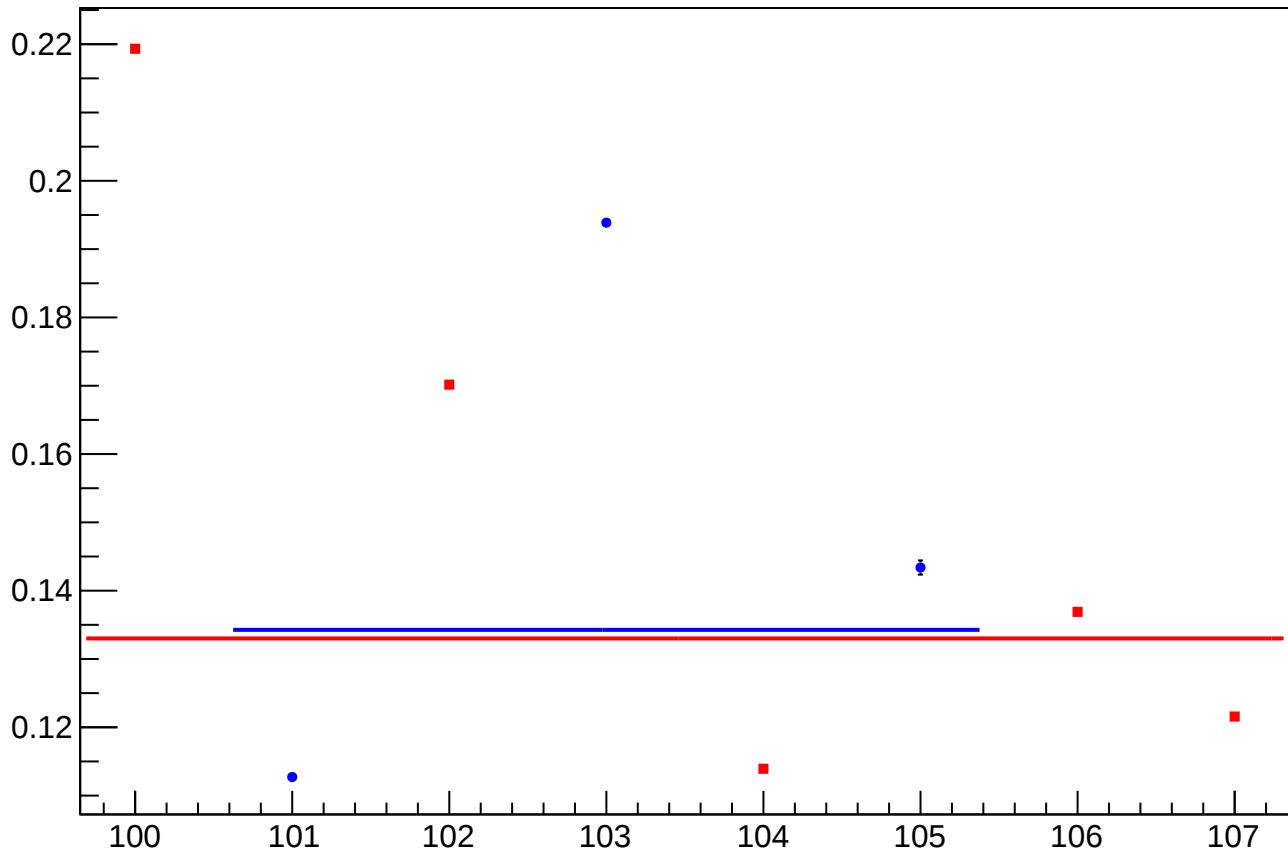
Right Out: 31.946+/-0.000  $\chi^2/\text{NDF}$ : 51315025.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

34.492+/-0.000  $\chi^2/\text{NDF}$ : 199672337.2/2

31.946+/-0.000  $\chi^2/\text{NDF}$ : 51315025.5/4

# yield\_usr\_rms vs slug



Right In: 0.134+/-0.000  $\chi^2/\text{NDF}$ : 141828.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

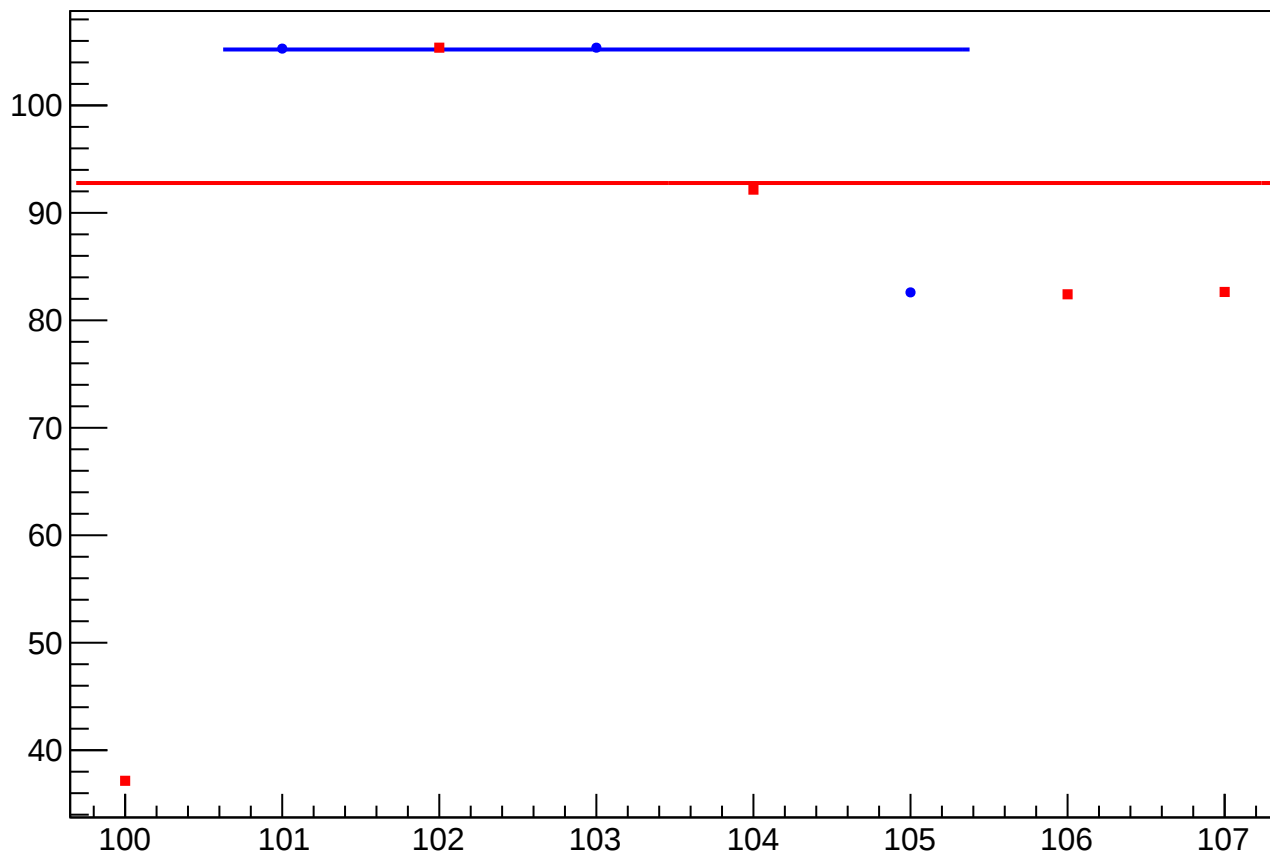
Right Out: 0.133+/-0.000  $\chi^2/\text{NDF}$ : 96974.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.134+/-0.000  $\chi^2/\text{NDF}$ : 141828.0/2

0.133+/-0.000  $\chi^2/\text{NDF}$ : 96974.8/4

yield\_dsl\_mean vs slug



Right In: 105.202 $\pm$ 0.000  $\chi^2$ /NDF: 1915201907.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

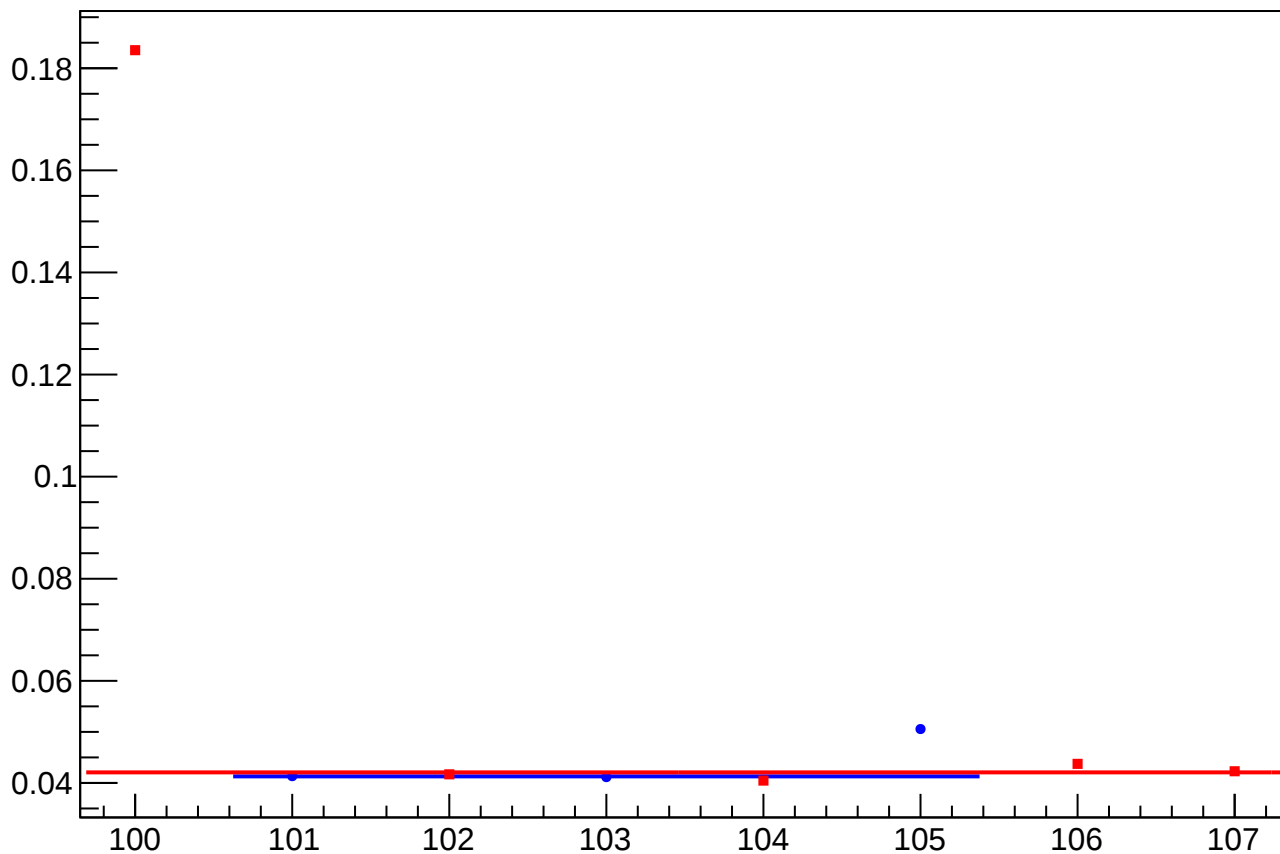
Right Out: 92.777 $\pm$ 0.000  $\chi^2$ /NDF: 93048029598.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

105.202 $\pm$ 0.000  $\chi^2$ /NDF: 1915201907.7/2

92.777 $\pm$ 0.000  $\chi^2$ /NDF: 93048029598.8/4

# yield\_dsl\_rms vs slug



Right In: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 656.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

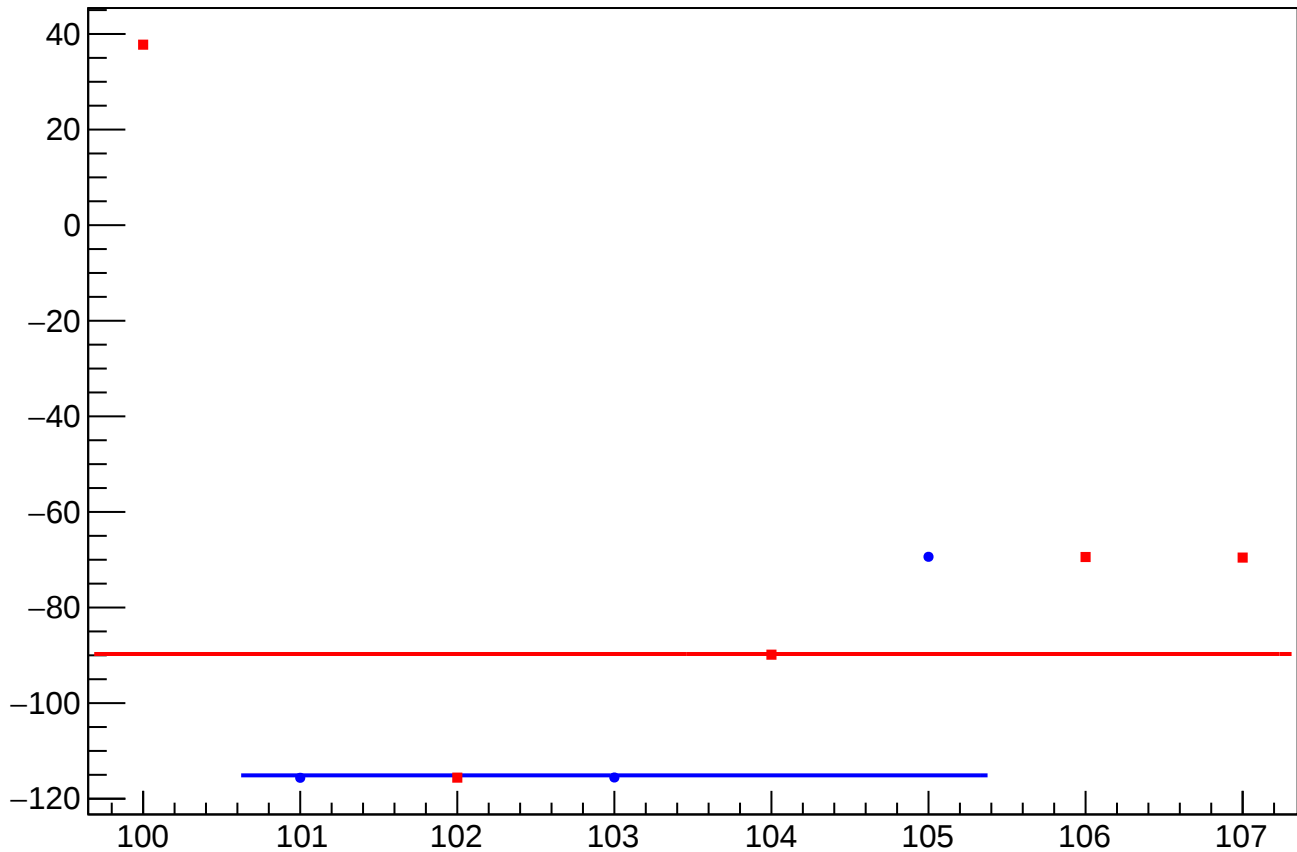
Right Out: 0.042+/-0.000  $\chi^2/\text{NDF}$ : 85311.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.041+/-0.000  $\chi^2/\text{NDF}$ : 656.1/2

0.042+/-0.000  $\chi^2/\text{NDF}$ : 85311.7/4

yield\_dsr\_mean vs slug



Right In: -115.113+/-0.000  $\chi^2/\text{NDF}$ : 7047268221.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

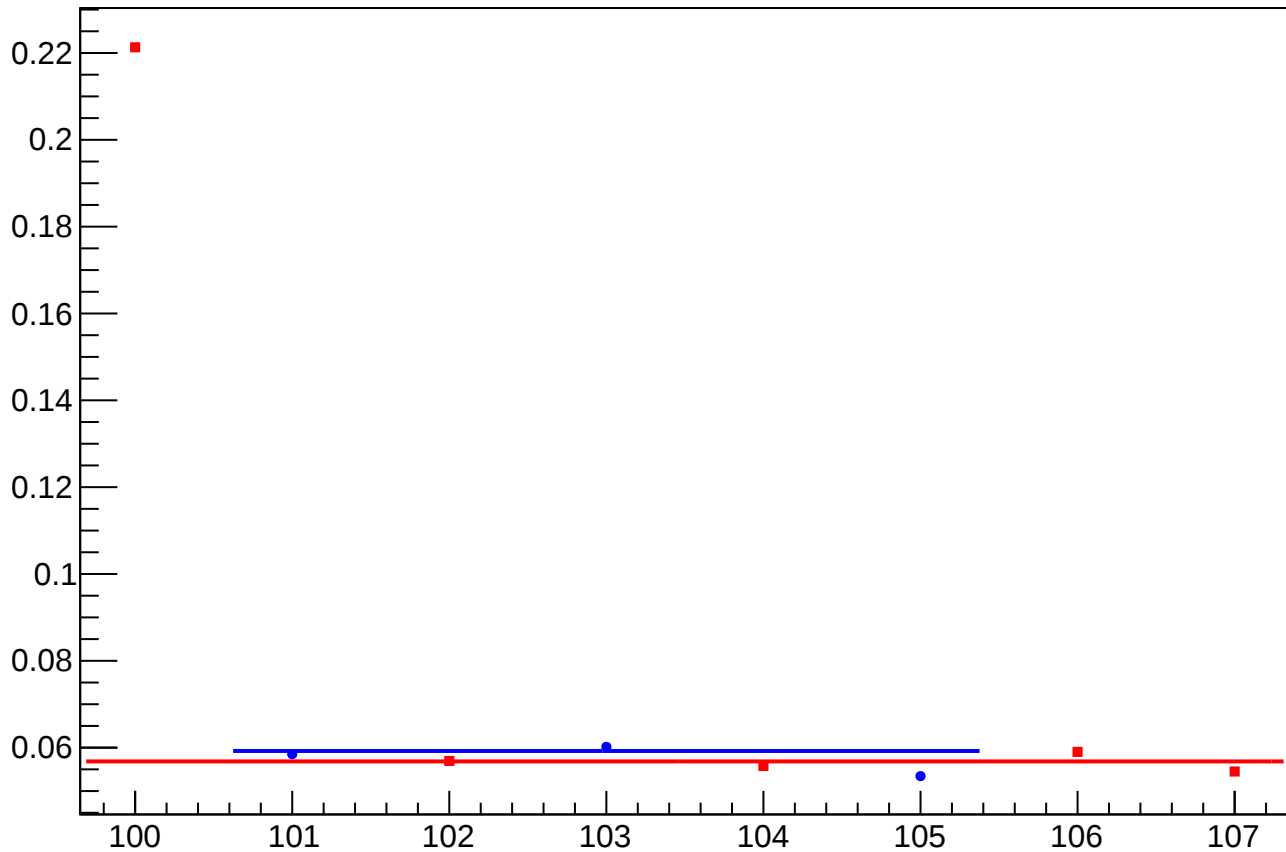
-115.113+/-0.000  $\chi^2/\text{NDF}$ : 7047268221.3/2

Right Out: -89.721+/-0.000  $\chi^2/\text{NDF}$ : 212919614180.4/4

-89.721+/-0.000  $\chi^2/\text{NDF}$ : 212919614180.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_dsr\_rms vs slug



Right In: 0.059+/-0.000  $\chi^2/\text{NDF}$ : 675.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

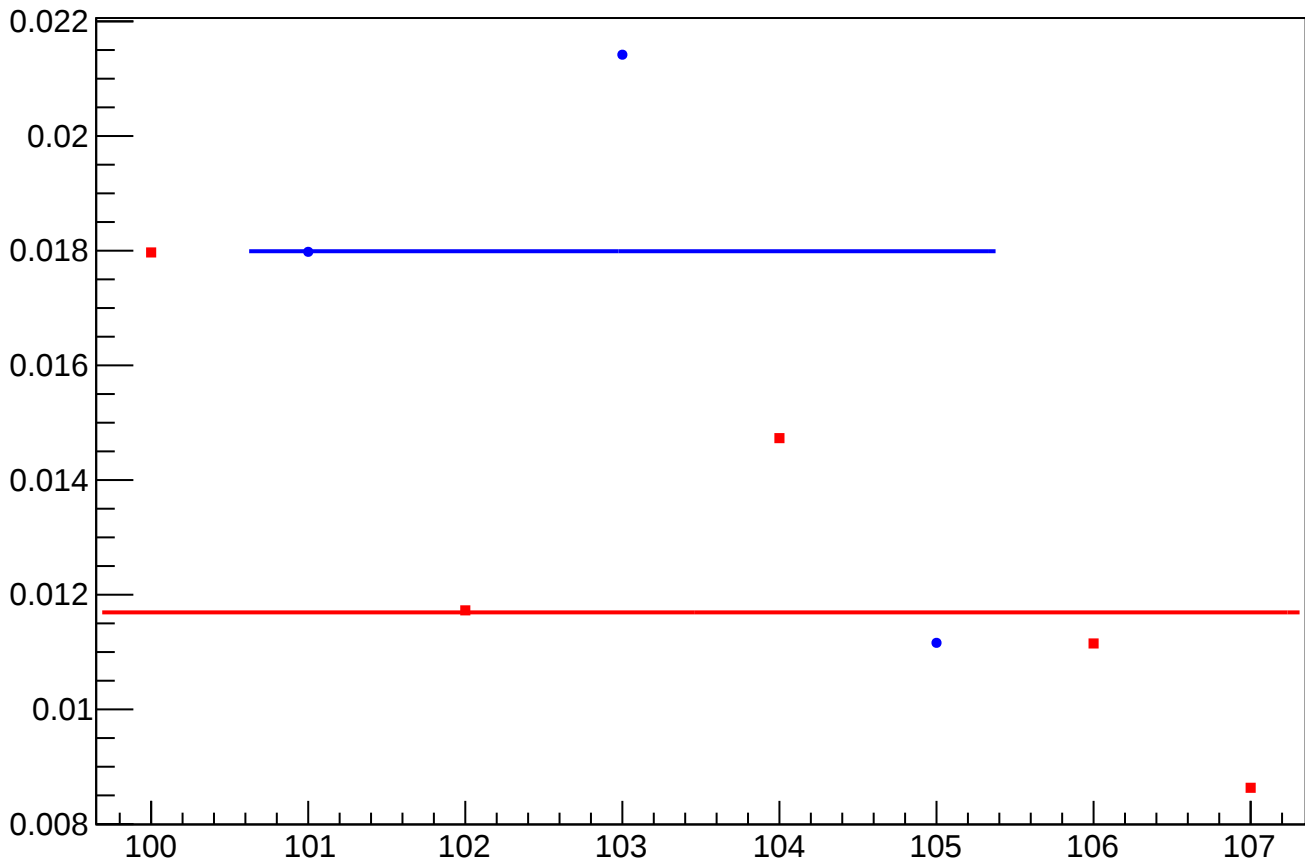
Right Out: 0.057+/-0.000  $\chi^2/\text{NDF}$ : 76901.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.059+/-0.000  $\chi^2/\text{NDF}$ : 675.7/2

0.057+/-0.000  $\chi^2/\text{NDF}$ : 76901.7/4

# yield\_atl1\_mean vs slug



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 212799153.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

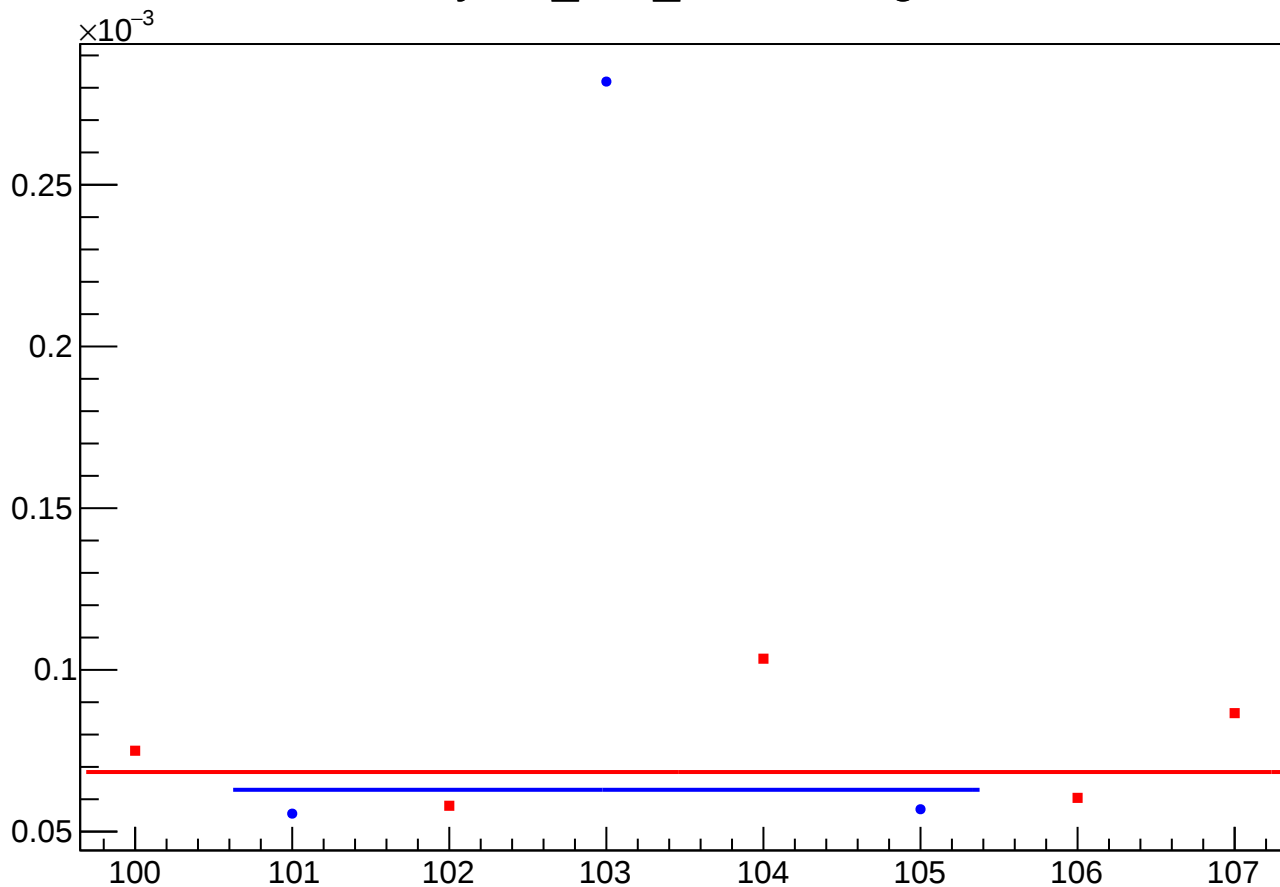
0.018+/-0.000  $\chi^2/\text{NDF}$ : 212799153.5/2

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1146316826.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.012+/-0.000  $\chi^2/\text{NDF}$ : 1146316826.0/4

# yield\_atl1\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 637867.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

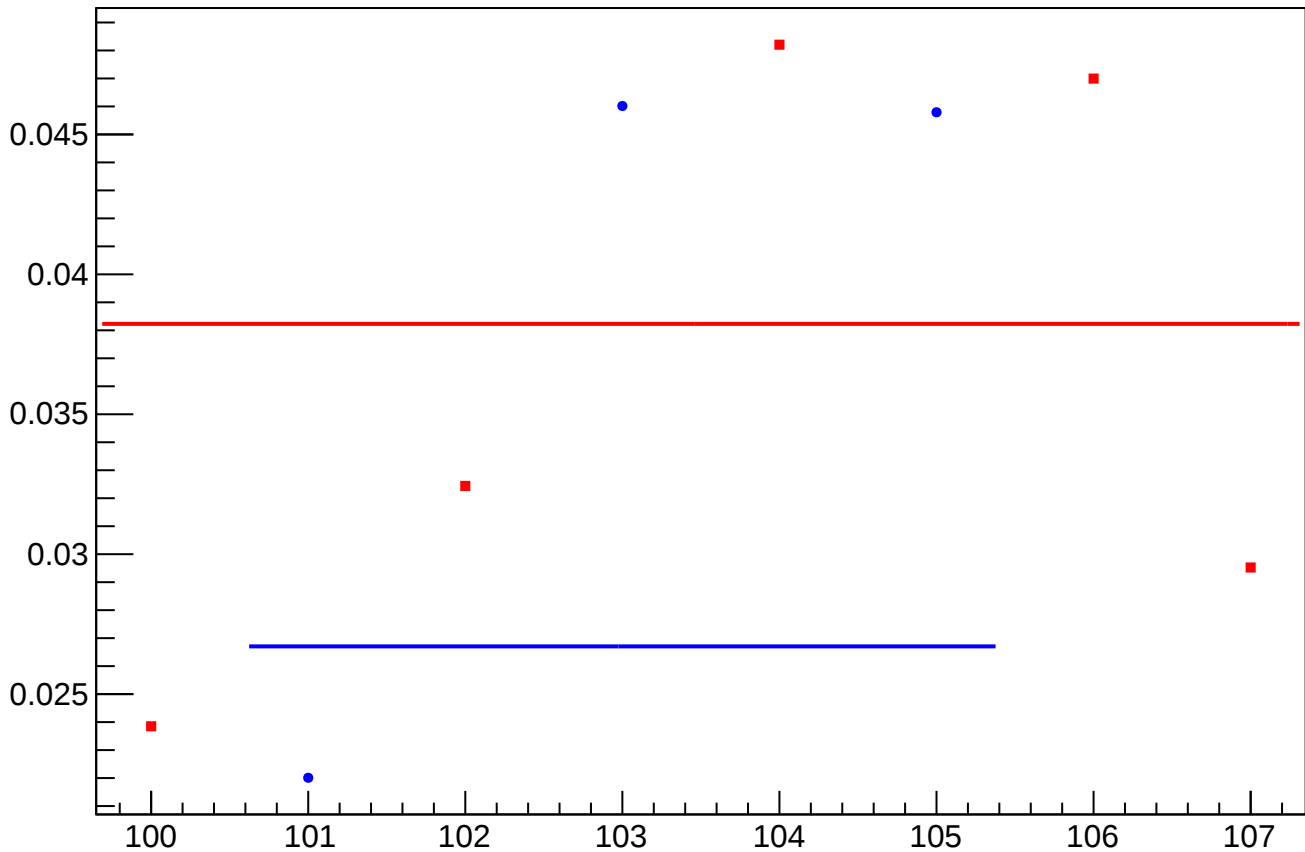
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 135266.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 637867.4/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 135266.5/4

# yield\_atl2\_mean vs slug



Right In: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 559419633.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

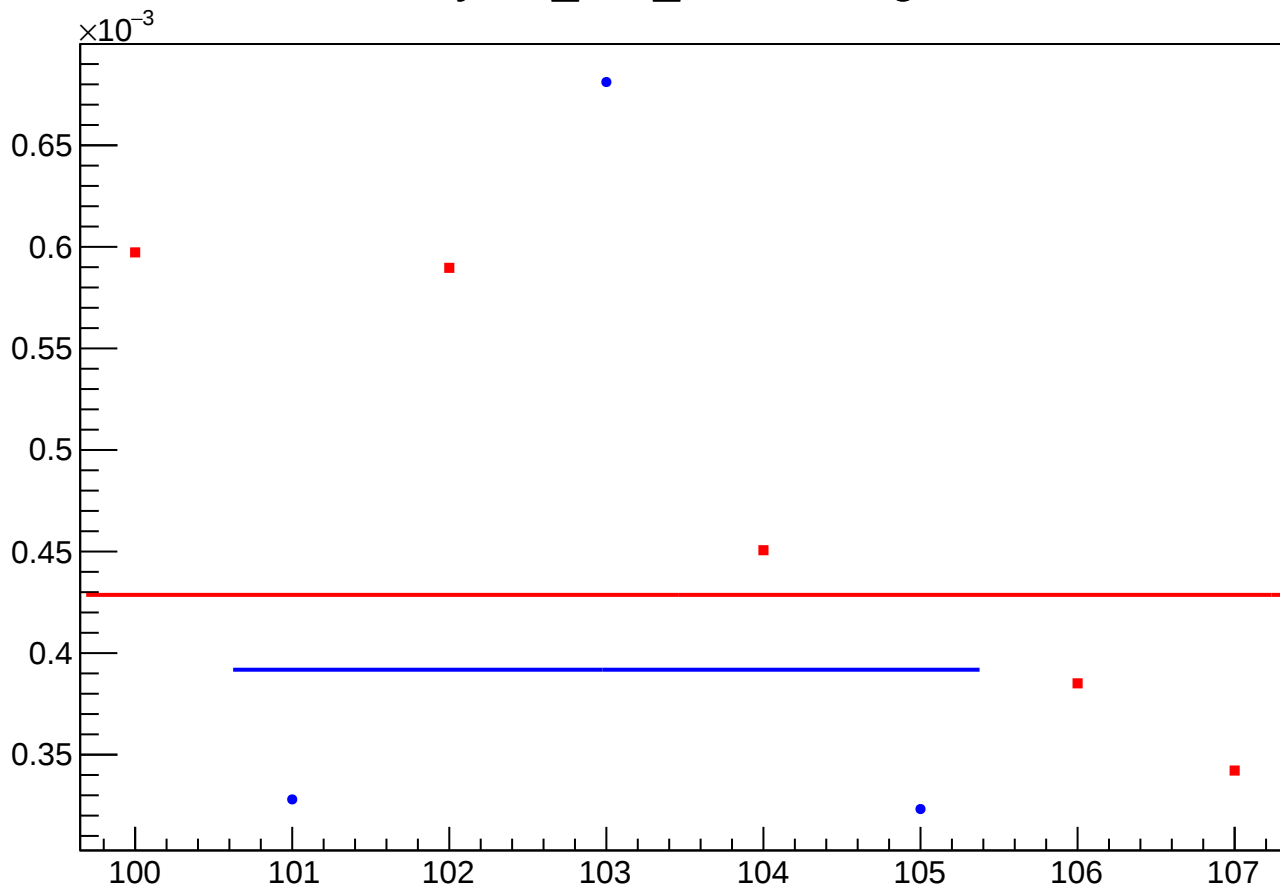
0.027+/-0.000  $\chi^2/\text{NDF}$ : 559419633.1/2

Right Out: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 599421801.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.038+/-0.000  $\chi^2/\text{NDF}$ : 599421801.9/4

# yield\_atl2\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 228425.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

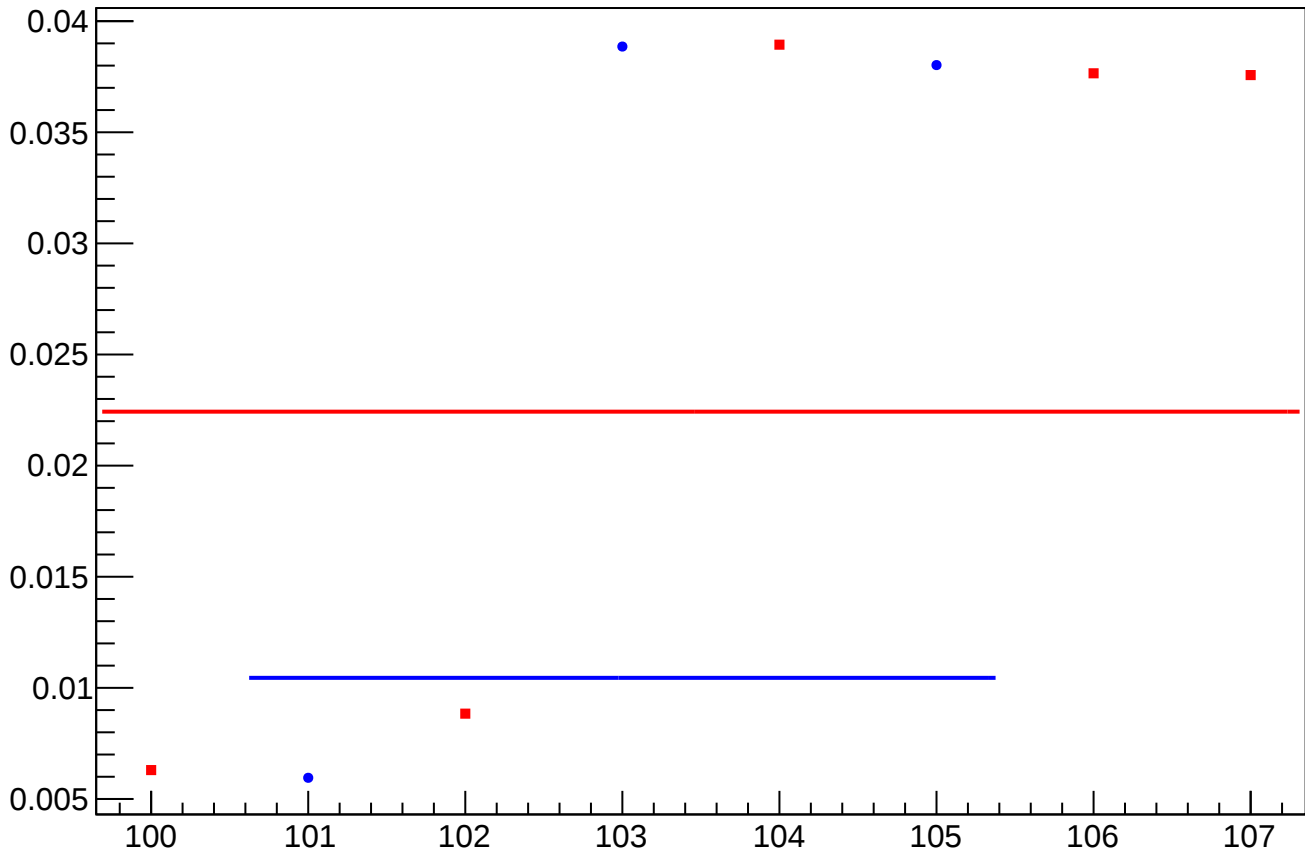
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 128573.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 228425.9/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 128573.9/4

# yield\_atr1\_mean vs slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 18518665860.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

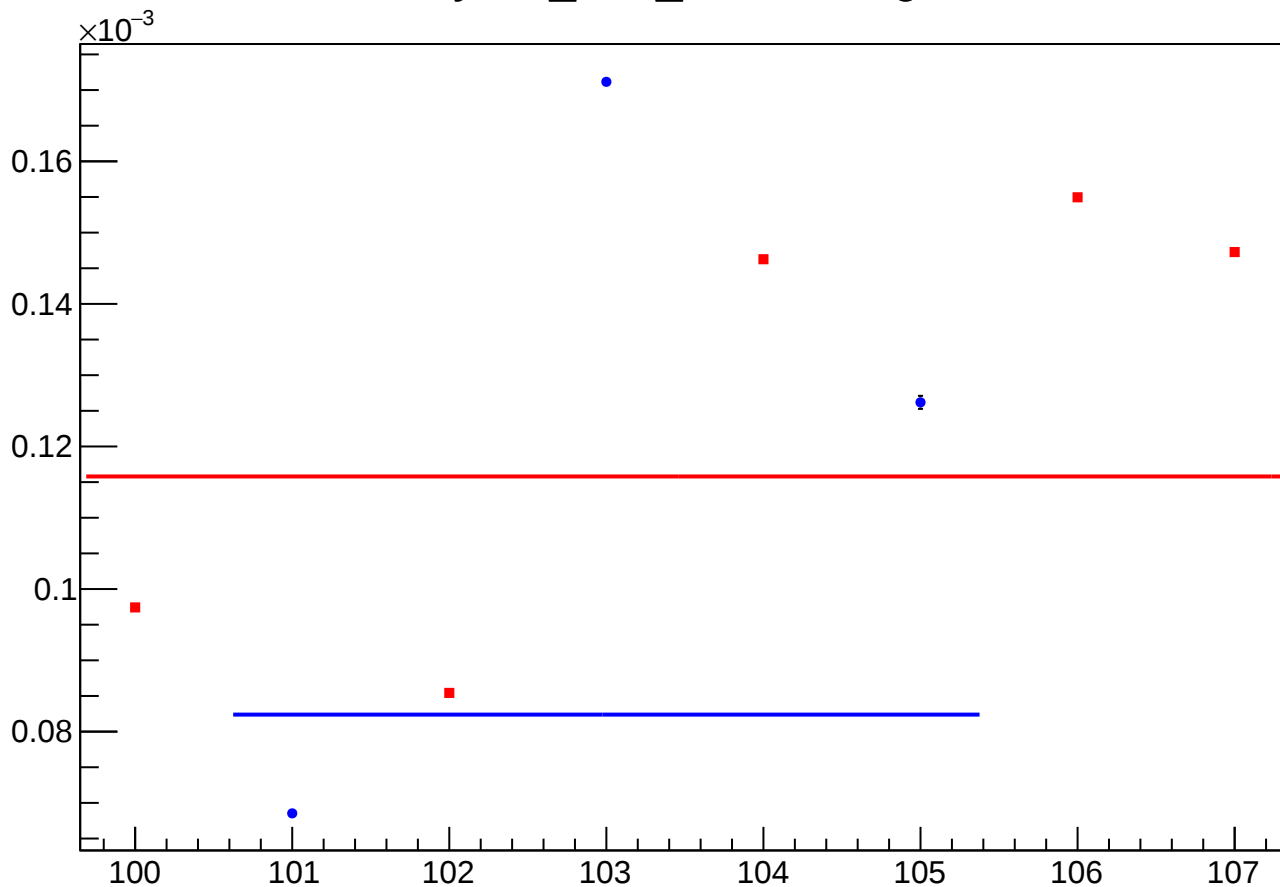
0.010+/-0.000  $\chi^2/\text{NDF}$ : 18518665860.3/2

Right Out: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 23092273994.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.022+/-0.000  $\chi^2/\text{NDF}$ : 23092273994.9/4

# yield\_atr1\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 353672.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

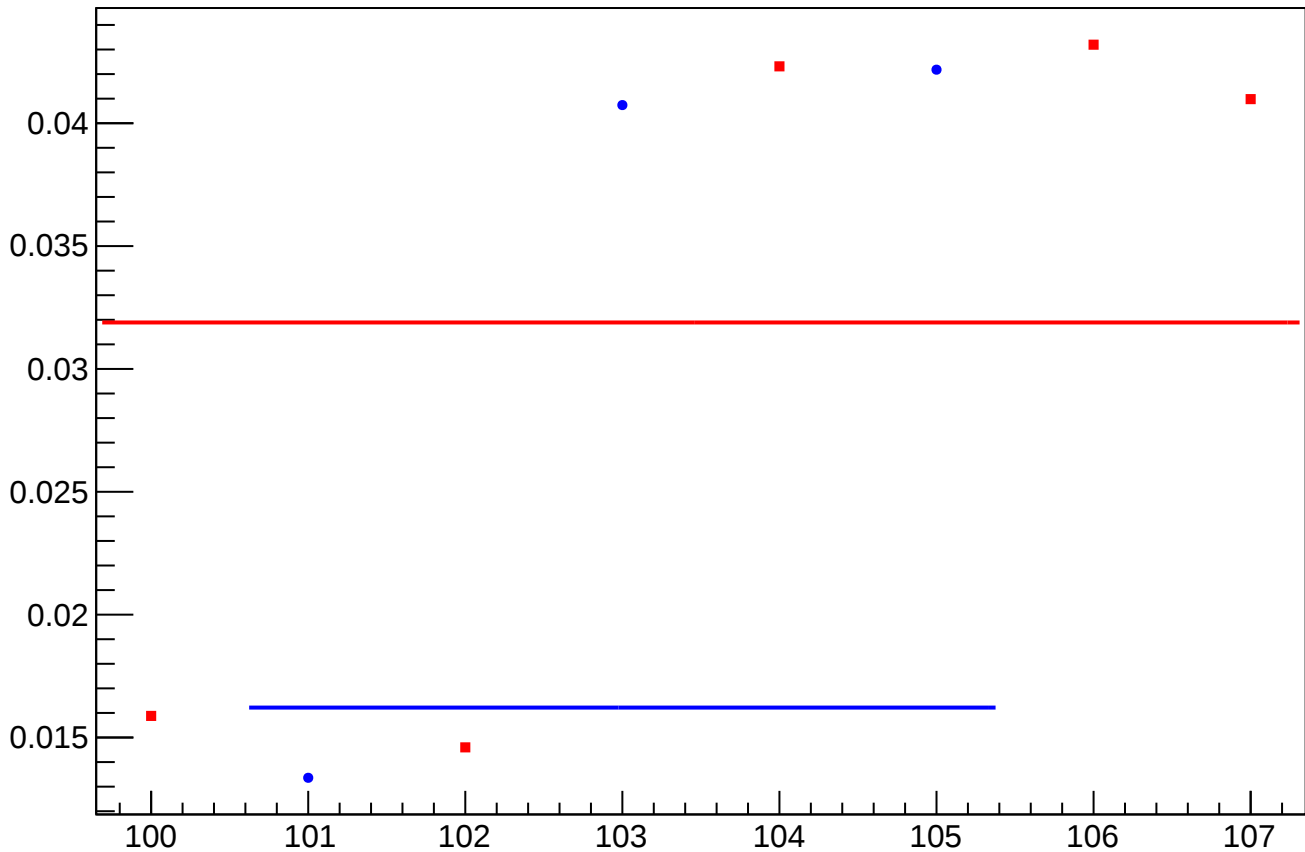
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 201492.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 353672.8/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 201492.0/4

# yield\_atr2\_mean vs slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1282423535.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

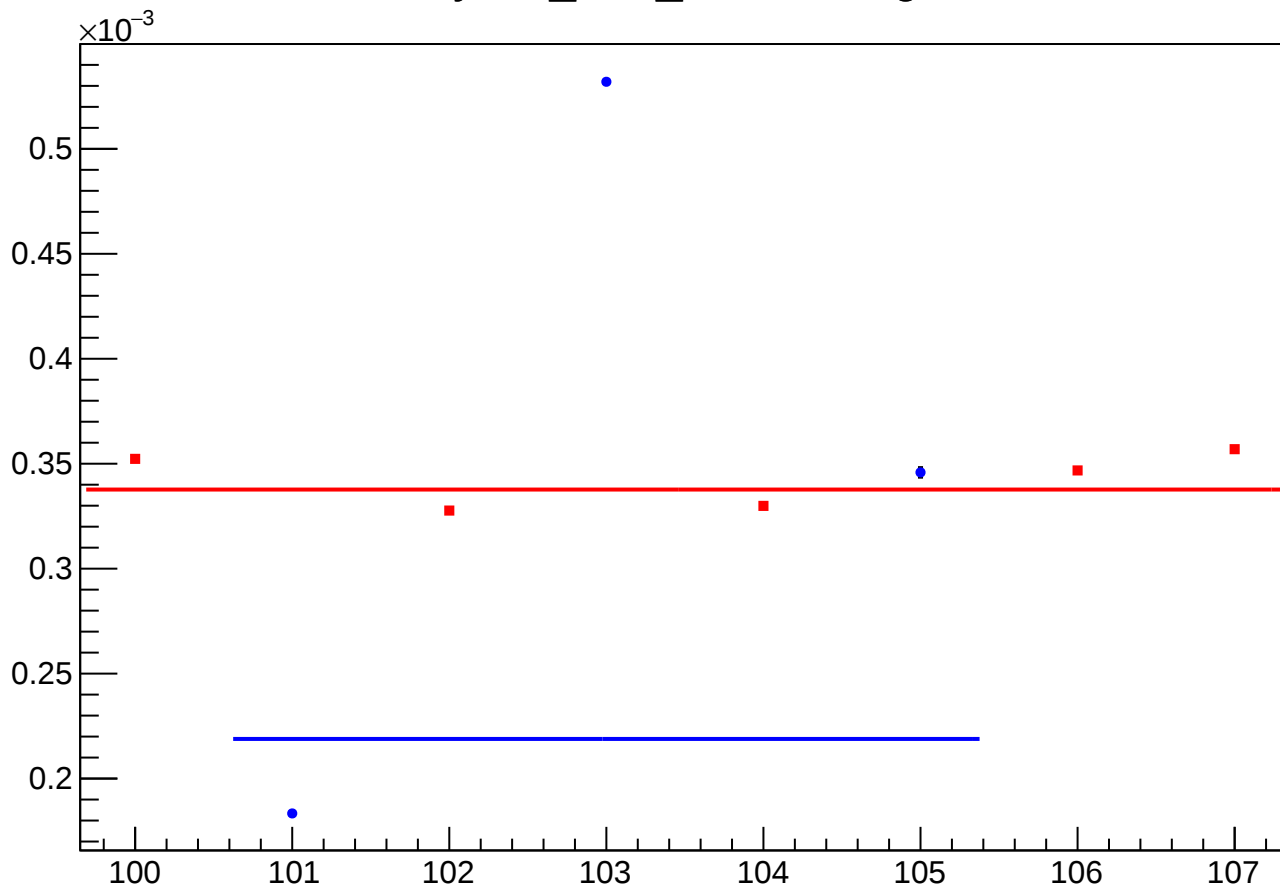
0.016+/-0.000  $\chi^2/\text{NDF}$ : 1282423535.2/2

Right Out: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 2238746620.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.032+/-0.000  $\chi^2/\text{NDF}$ : 2238746620.2/4

# yield\_atr2\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 400849.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

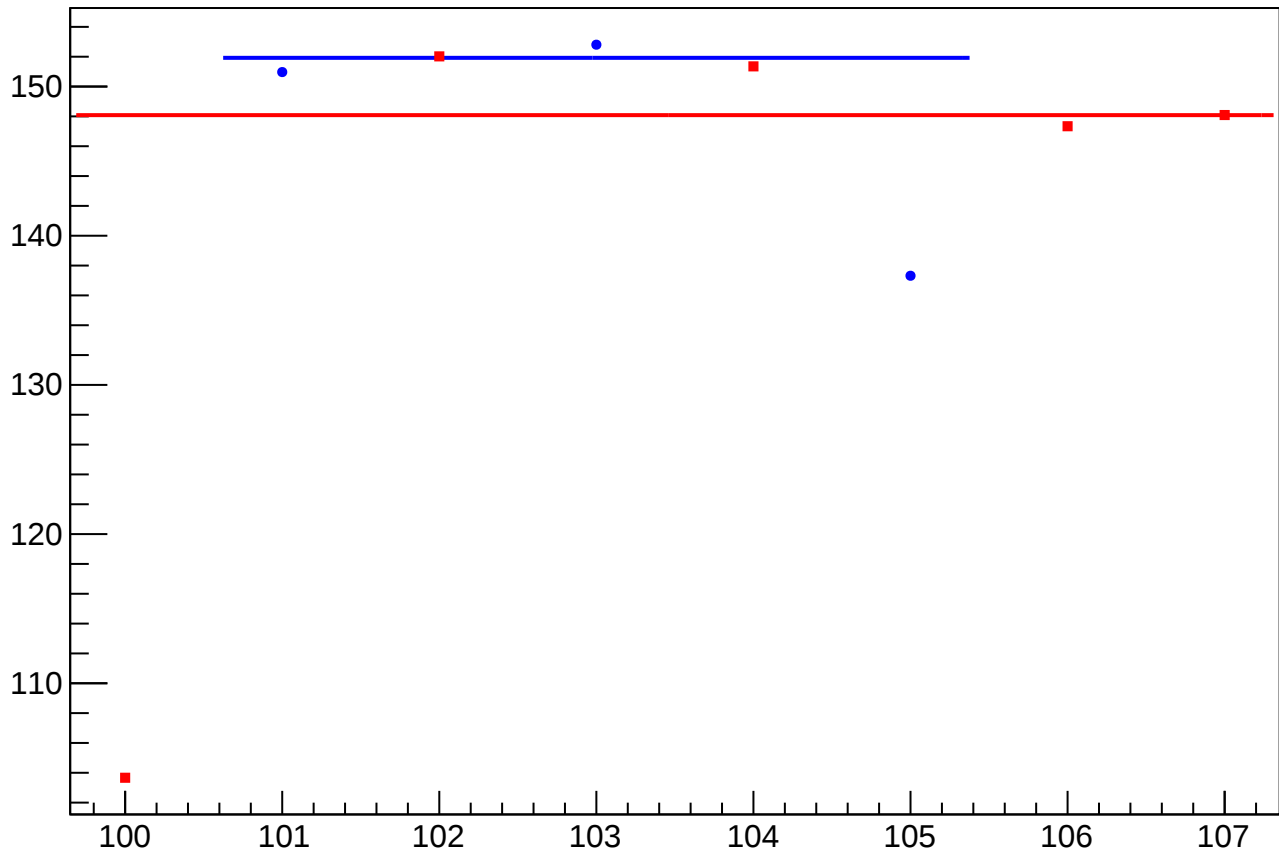
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3572.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 400849.0/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 3572.0/4

# yield\_bcm\_an\_ds\_mean vs slug



Right In: 151.925 $\pm$ 0.001  $\chi^2$ /NDF: 1181571.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

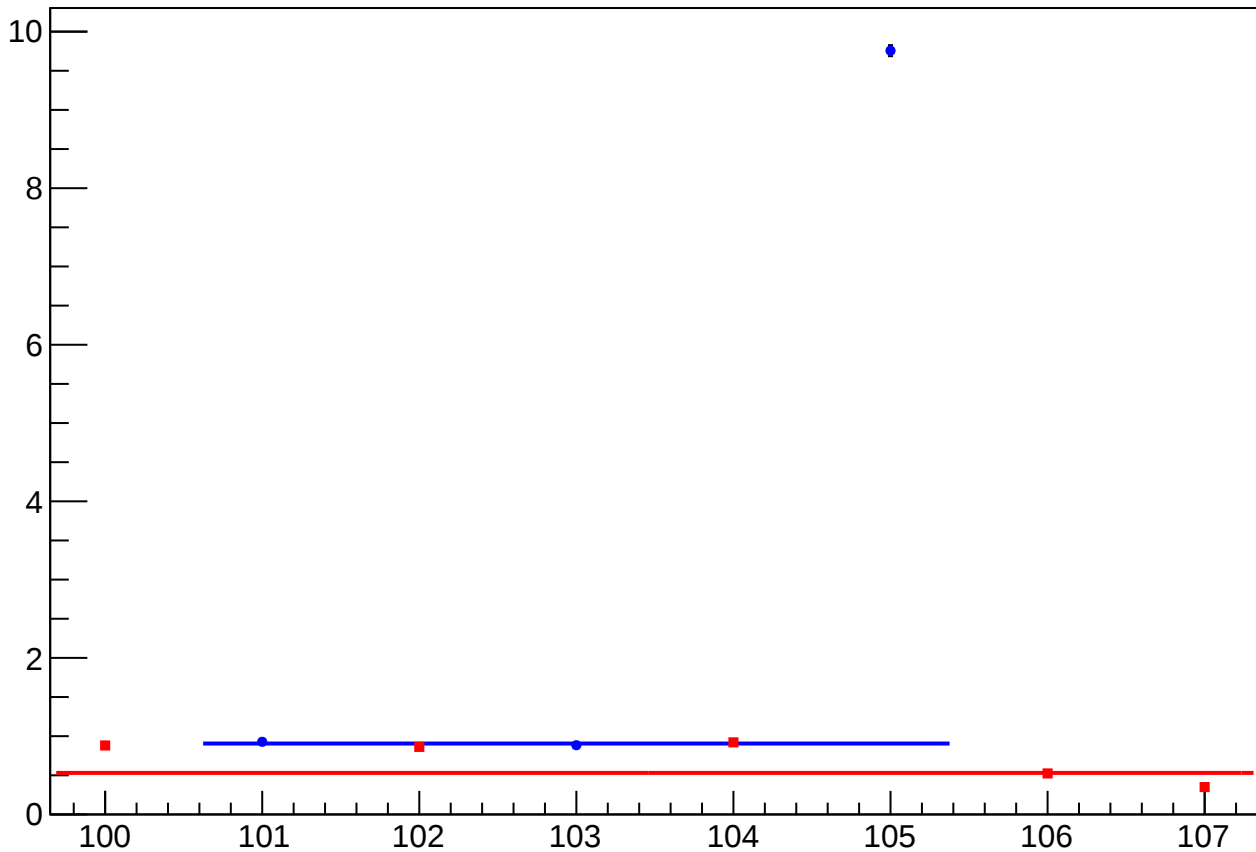
151.925 $\pm$ 0.001  $\chi^2$ /NDF: 1181571.3/2

Right Out: 148.083 $\pm$ 0.000  $\chi^2$ /NDF: 195342641.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

148.083 $\pm$ 0.000  $\chi^2$ /NDF: 195342641.6/4

# yield\_bcm\_an\_ds\_rms vs slug



Right In: 0.906 $\pm$ 0.001  $\chi^2$ /NDF: 16976.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

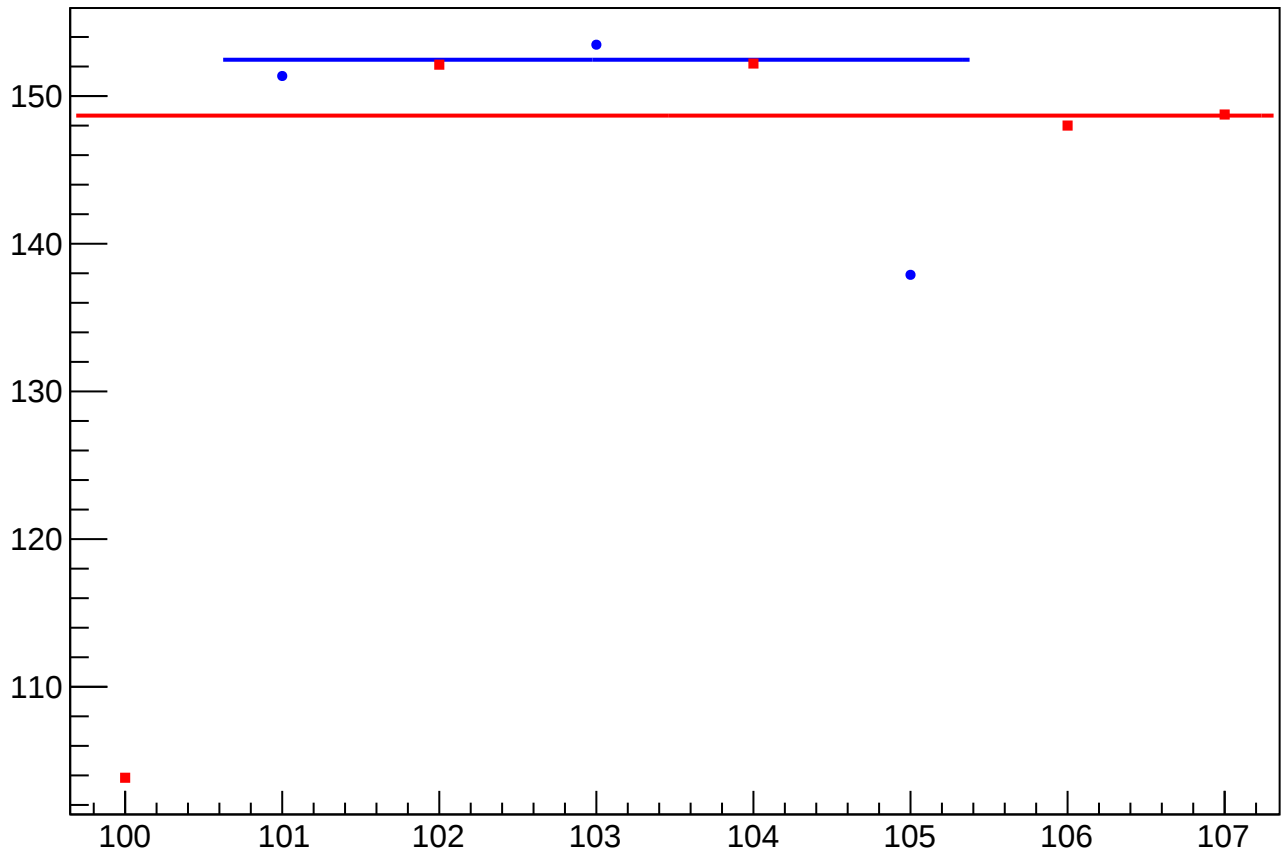
0.906 $\pm$ 0.001  $\chi^2$ /NDF: 16976.7/2

Right Out: 0.531 $\pm$ 0.000  $\chi^2$ /NDF: 523623.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.531 $\pm$ 0.000  $\chi^2$ /NDF: 523623.9/4

yield\_bcm\_an\_ds3\_mean vs slug



Right In: 152.459 $\pm$ 0.001  $\chi^2$ /NDF: 1539933.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

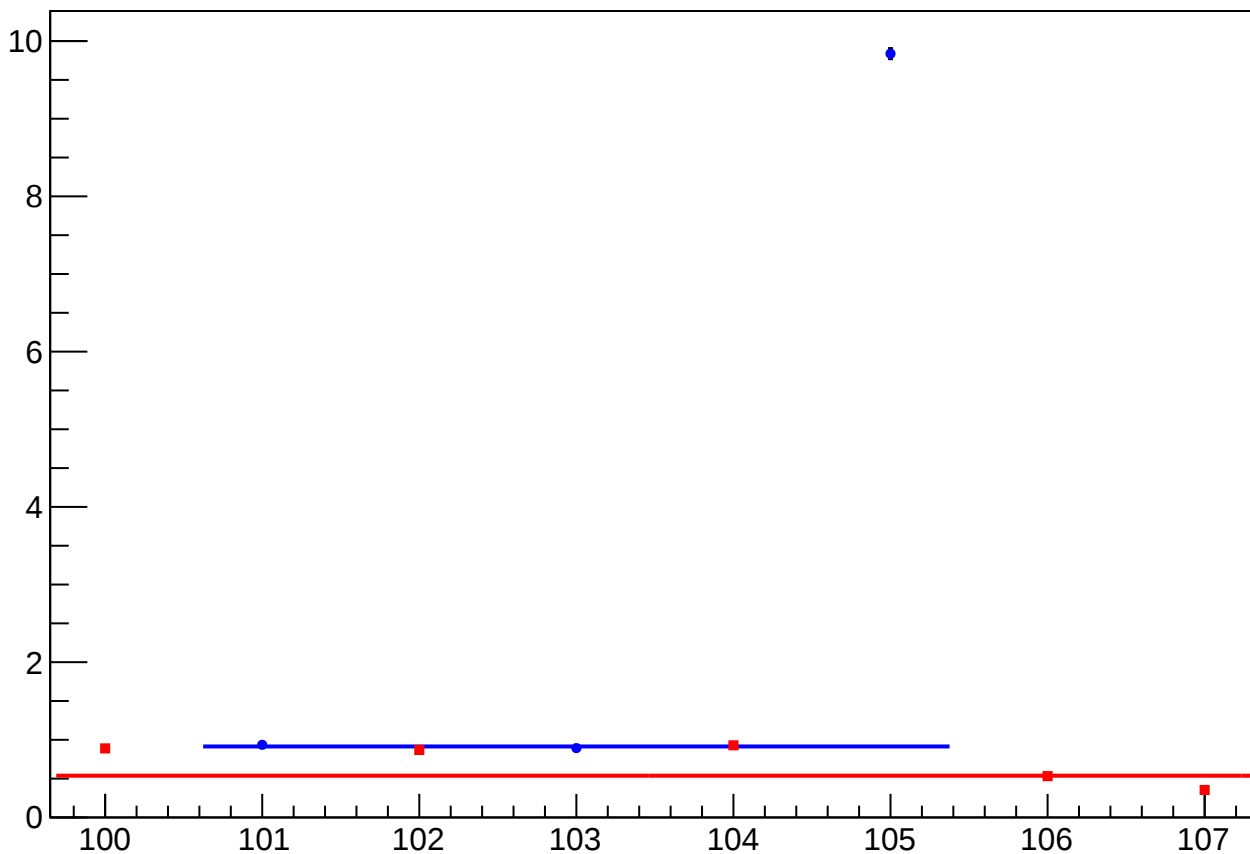
152.459 $\pm$ 0.001  $\chi^2$ /NDF: 1539933.8/2

Right Out: 148.677 $\pm$ 0.000  $\chi^2$ /NDF: 193440768.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

148.677 $\pm$ 0.000  $\chi^2$ /NDF: 193440768.8/4

# yield\_bcm\_an\_ds3\_rms vs slug



Right In: 0.914 $\pm$ 0.001  $\chi^2$ /NDF: 16881.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

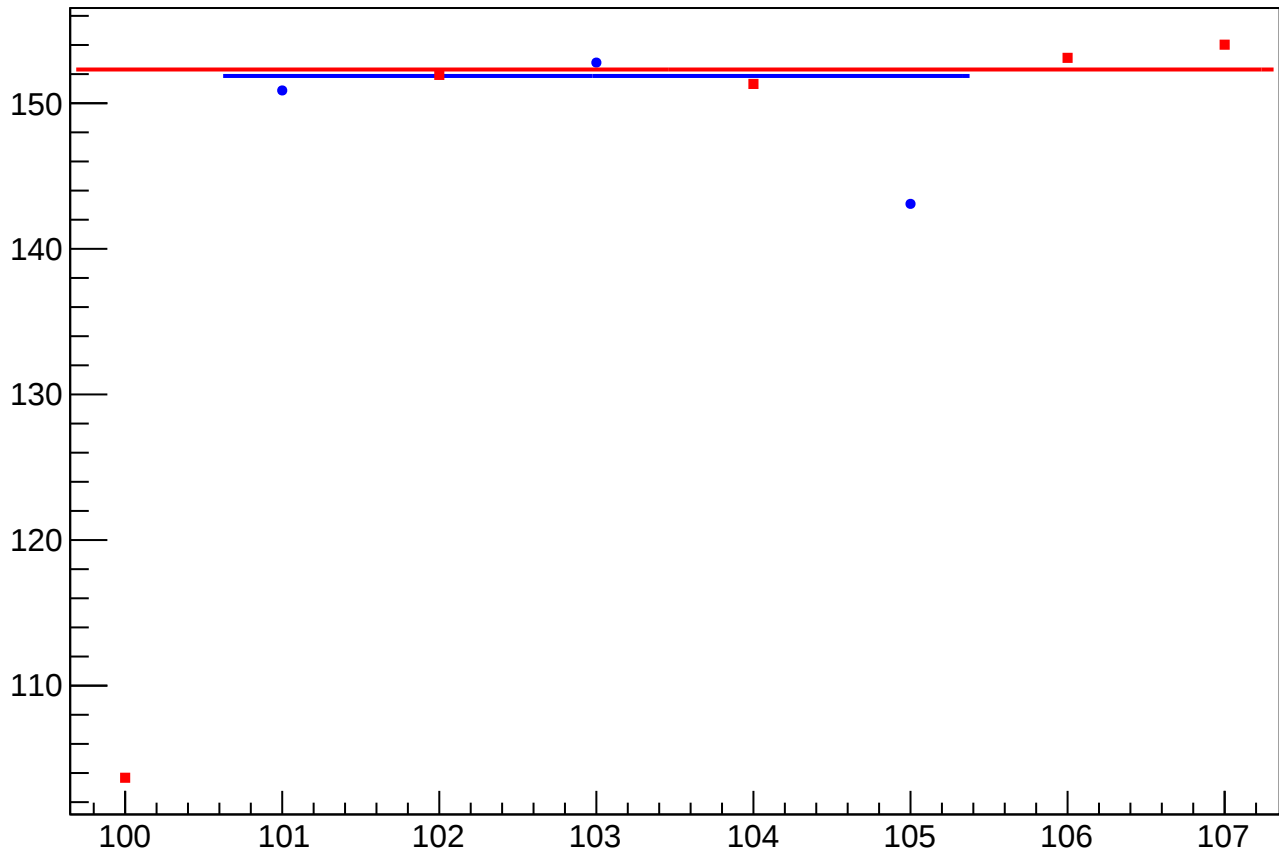
Right Out: 0.538 $\pm$ 0.000  $\chi^2$ /NDF: 519137.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.914 $\pm$ 0.001  $\chi^2$ /NDF: 16881.7/2

0.538 $\pm$ 0.000  $\chi^2$ /NDF: 519137.7/4

# yield\_bcm\_an\_us\_mean vs slug



Right In: 151.873 $\pm$ 0.001  $\chi^2$ /NDF: 1252660.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

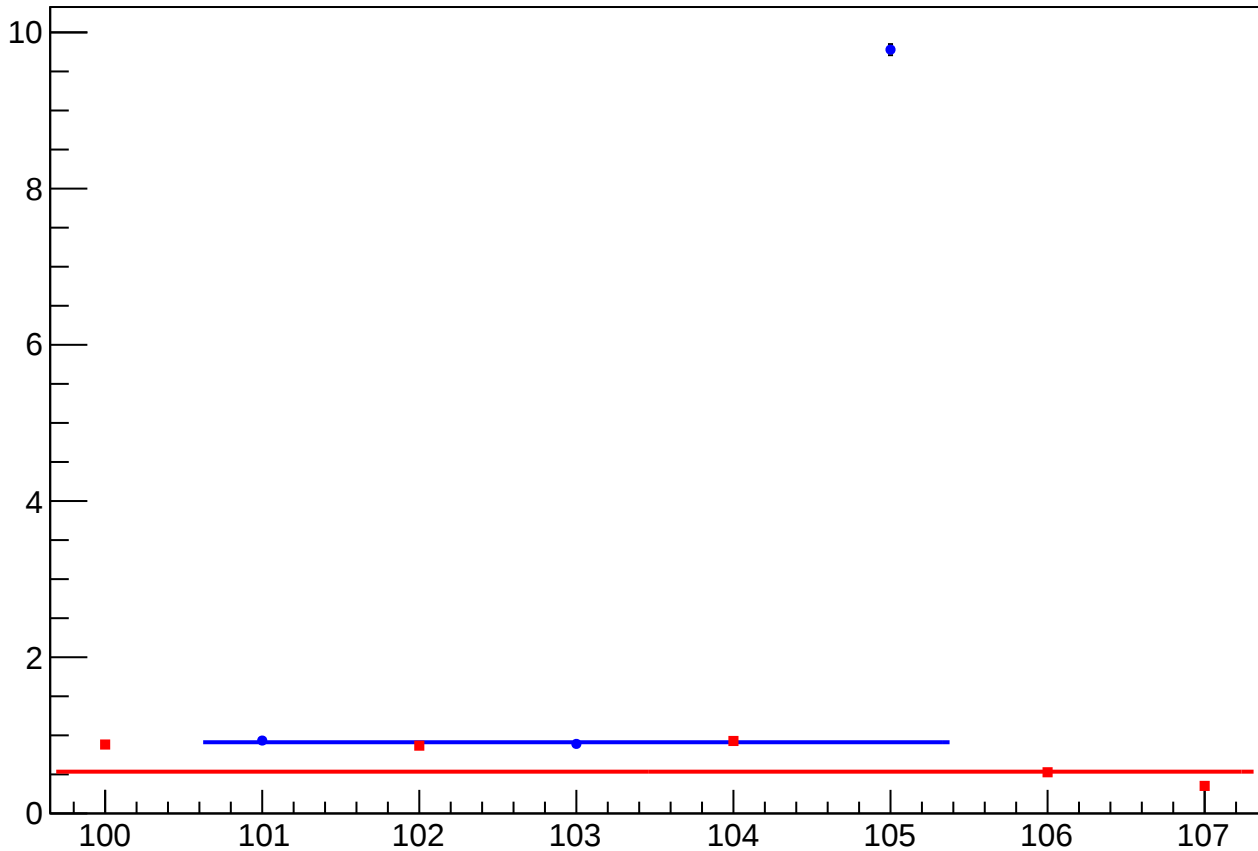
Right Out: 152.316 $\pm$ 0.000  $\chi^2$ /NDF: 221358283.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

151.873 $\pm$ 0.001  $\chi^2$ /NDF: 1252660.8/2

152.316 $\pm$ 0.000  $\chi^2$ /NDF: 221358283.9/4

# yield\_bcm\_an\_us\_rms vs slug



Right In: 0.912 $\pm$ 0.001  $\chi^2$ /NDF: 16907.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

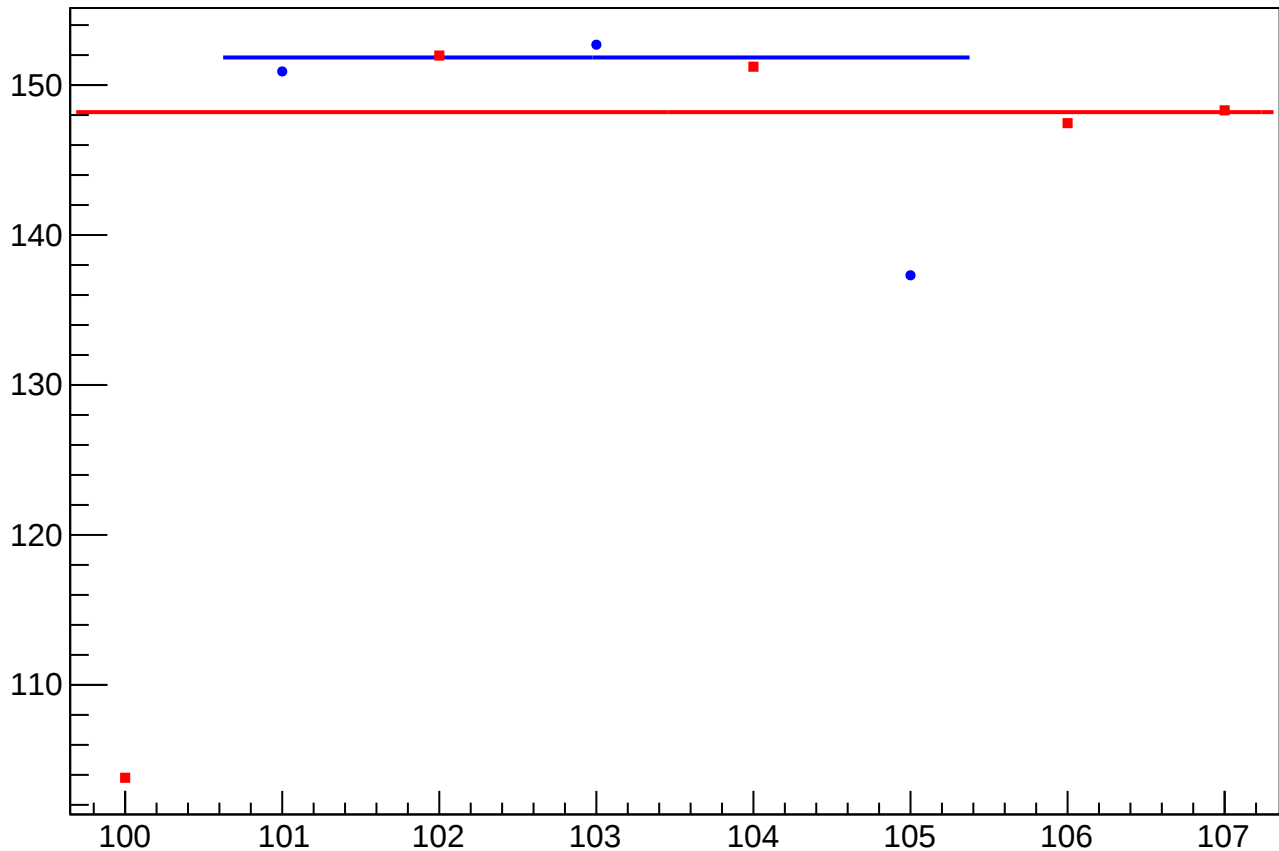
Right Out: 0.535 $\pm$ 0.000  $\chi^2$ /NDF: 521616.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.912 $\pm$ 0.001  $\chi^2$ /NDF: 16907.1/2

0.535 $\pm$ 0.000  $\chi^2$ /NDF: 521616.9/4

yield\_bcm\_dg\_us\_mean vs slug



Right In: 151.840 $\pm$ 0.001  $\chi^2$ /NDF: 1087721.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

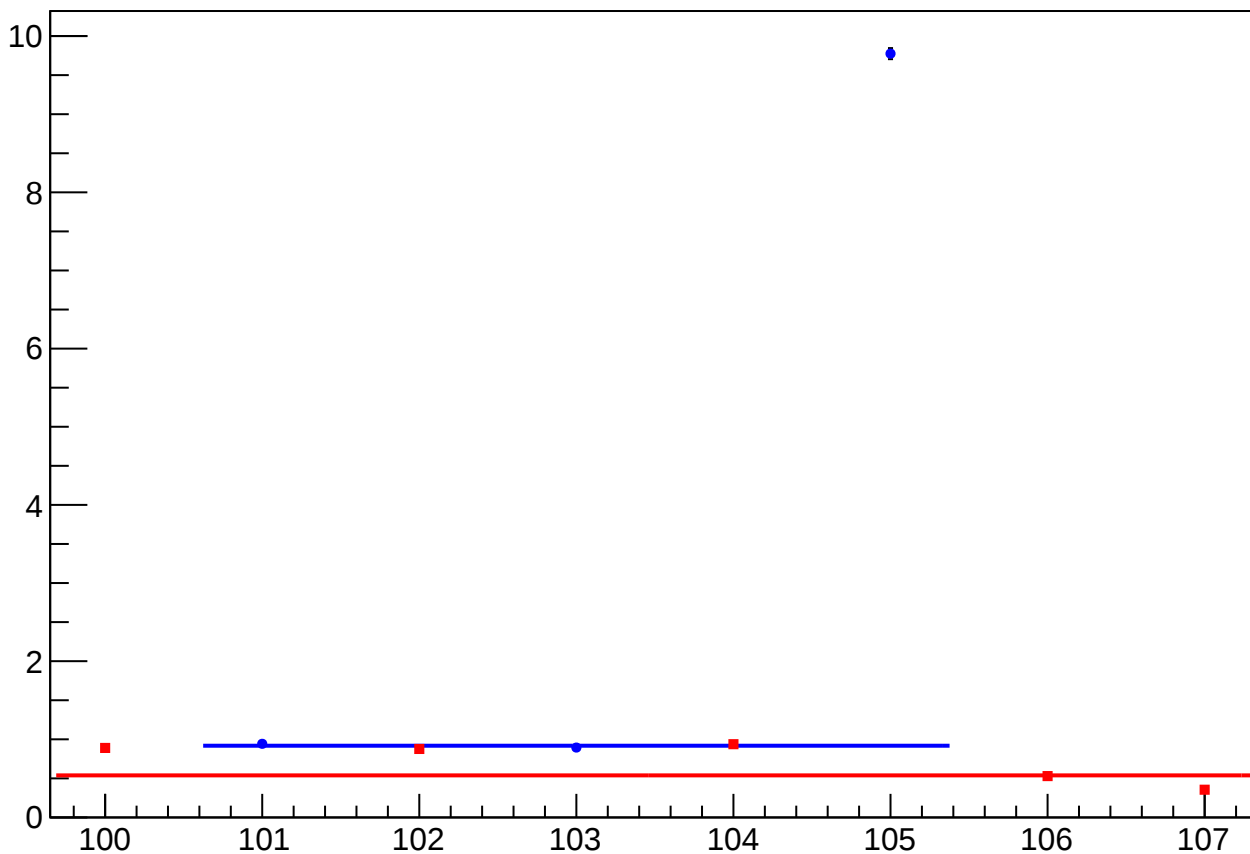
Right Out: 148.195 $\pm$ 0.000  $\chi^2$ /NDF: 189534184.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

151.840 $\pm$ 0.001  $\chi^2$ /NDF: 1087721.5/2

148.195 $\pm$ 0.000  $\chi^2$ /NDF: 189534184.4/4

# yield\_bcm\_dg\_us\_rms vs slug



Right In: 0.918 $\pm$ 0.001  $\chi^2$ /NDF: 17187.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

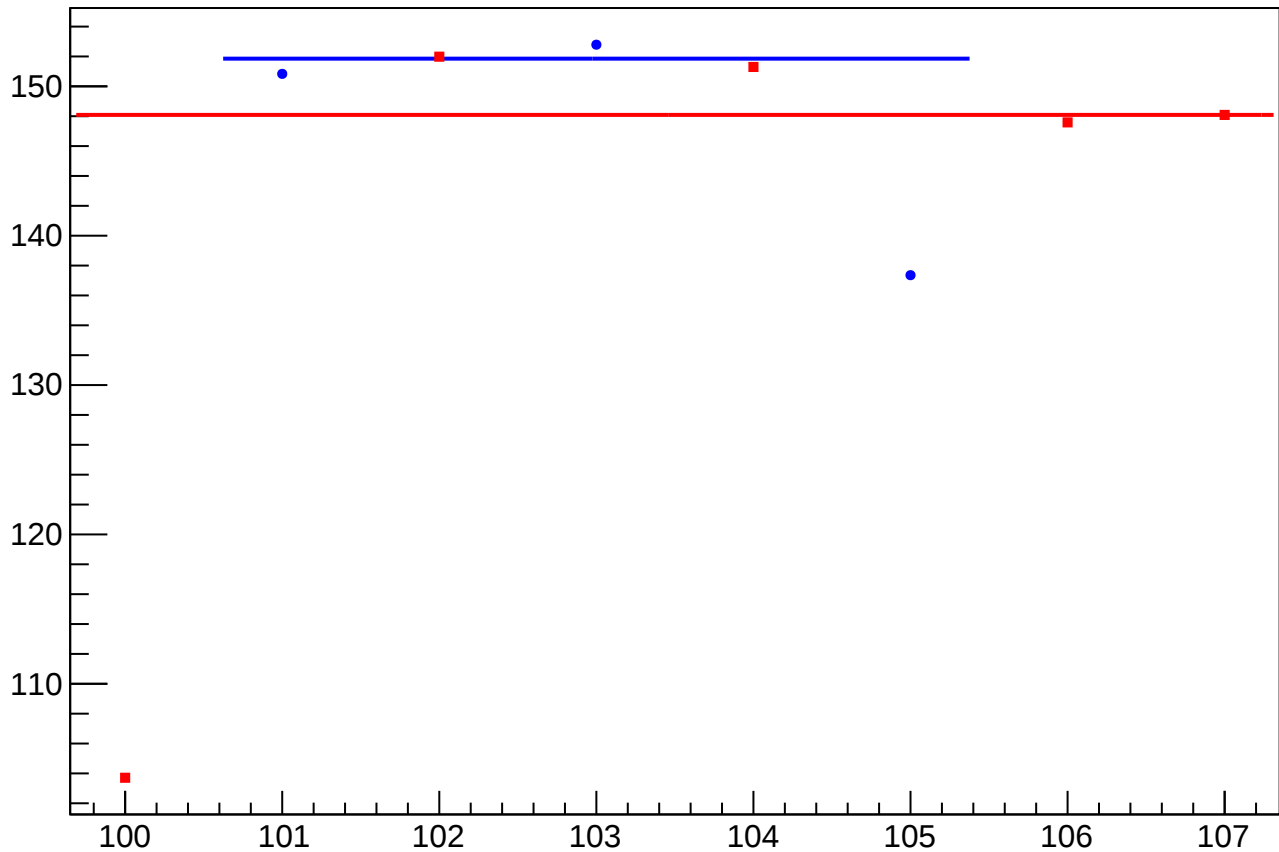
Right Out: 0.539 $\pm$ 0.000  $\chi^2$ /NDF: 525226.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.918 $\pm$ 0.001  $\chi^2$ /NDF: 17187.9/2

0.539 $\pm$ 0.000  $\chi^2$ /NDF: 525226.9/4

# yield\_bcm\_dg\_ds\_mean vs slug



Right In: 151.854 $\pm$ 0.001  $\chi^2$ /NDF: 1282983.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

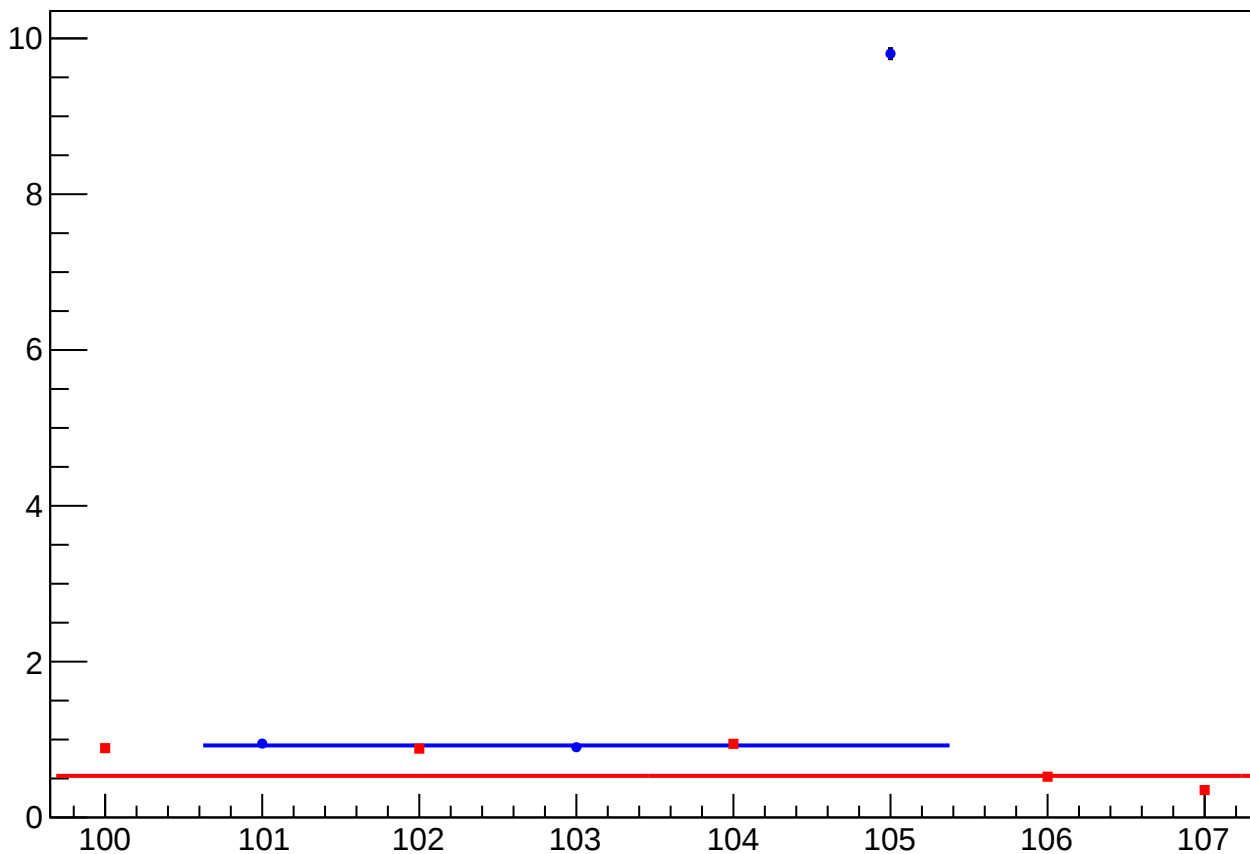
151.854 $\pm$ 0.001  $\chi^2$ /NDF: 1282983.5/2

Right Out: 148.087 $\pm$ 0.000  $\chi^2$ /NDF: 190261403.5/4

148.087 $\pm$ 0.000  $\chi^2$ /NDF: 190261403.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_dg\_ds\_rms vs slug



Right In: 0.924+/-0.001  $\chi^2/\text{NDF}$ : 17086.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

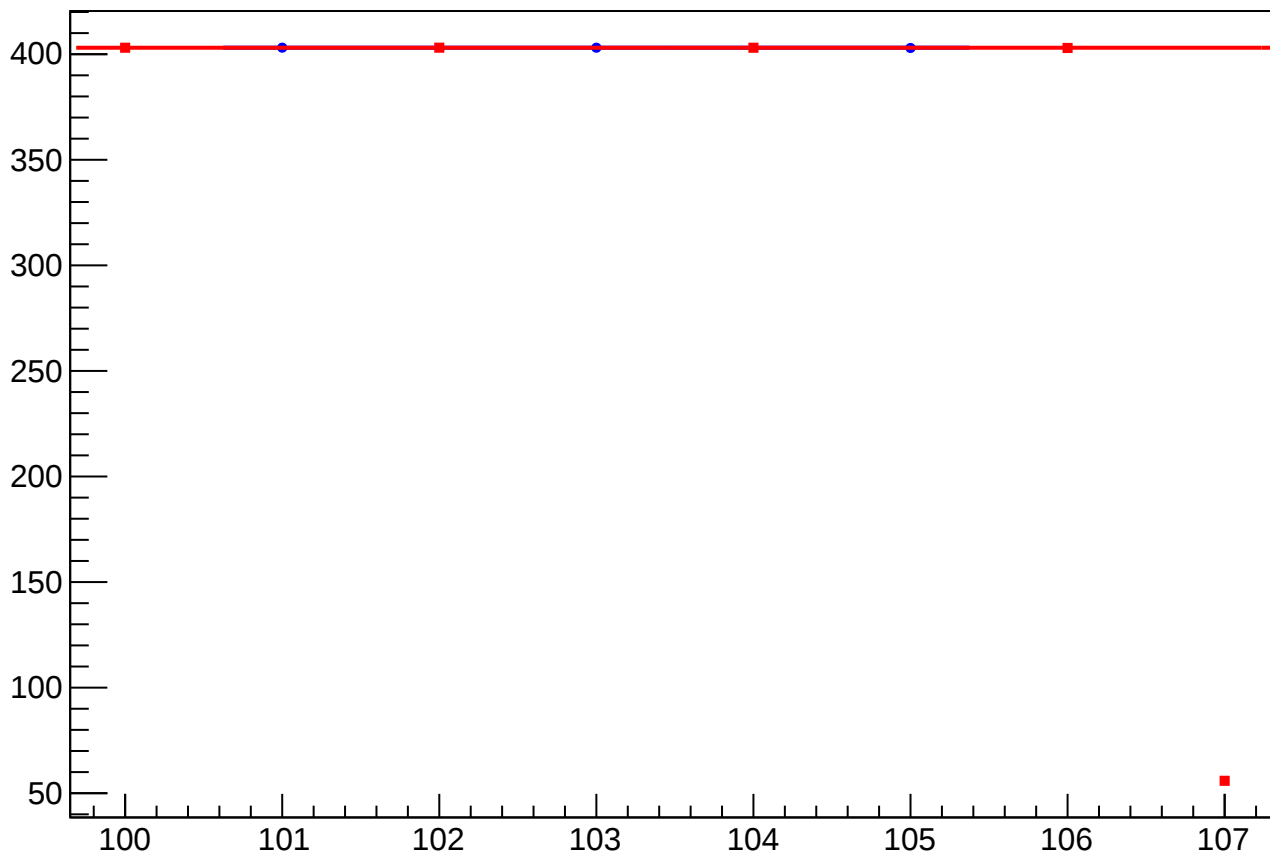
Right Out: 0.534+/-0.000  $\chi^2/\text{NDF}$ : 542944.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.924+/-0.001  $\chi^2/\text{NDF}$ : 17086.1/2

0.534+/-0.000  $\chi^2/\text{NDF}$ : 542944.7/4

# yield\_cav4bQ\_mean vs slug



Right In: 403.088+/-0.000  $\chi^2/\text{NDF}$ : 7360769.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

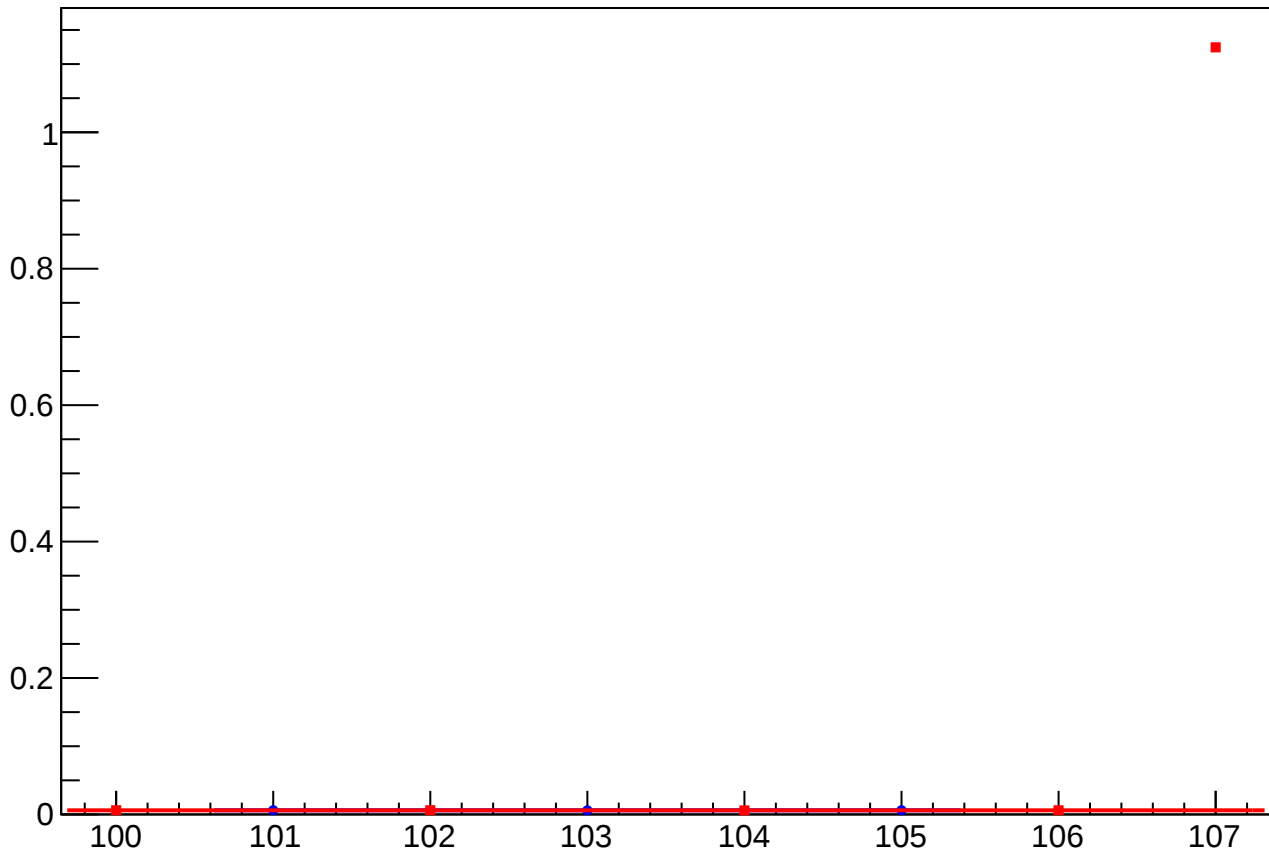
403.088+/-0.000  $\chi^2/\text{NDF}$ : 7360769.6/2

Right Out: 403.069+/-0.000  $\chi^2/\text{NDF}$ : 22979239351.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

403.069+/-0.000  $\chi^2/\text{NDF}$ : 22979239351.7/4

yield\_cav4bQ\_rms vs slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 912.2/2

0.006+/-0.000  $\chi^2/\text{NDF}$ : 912.2/2

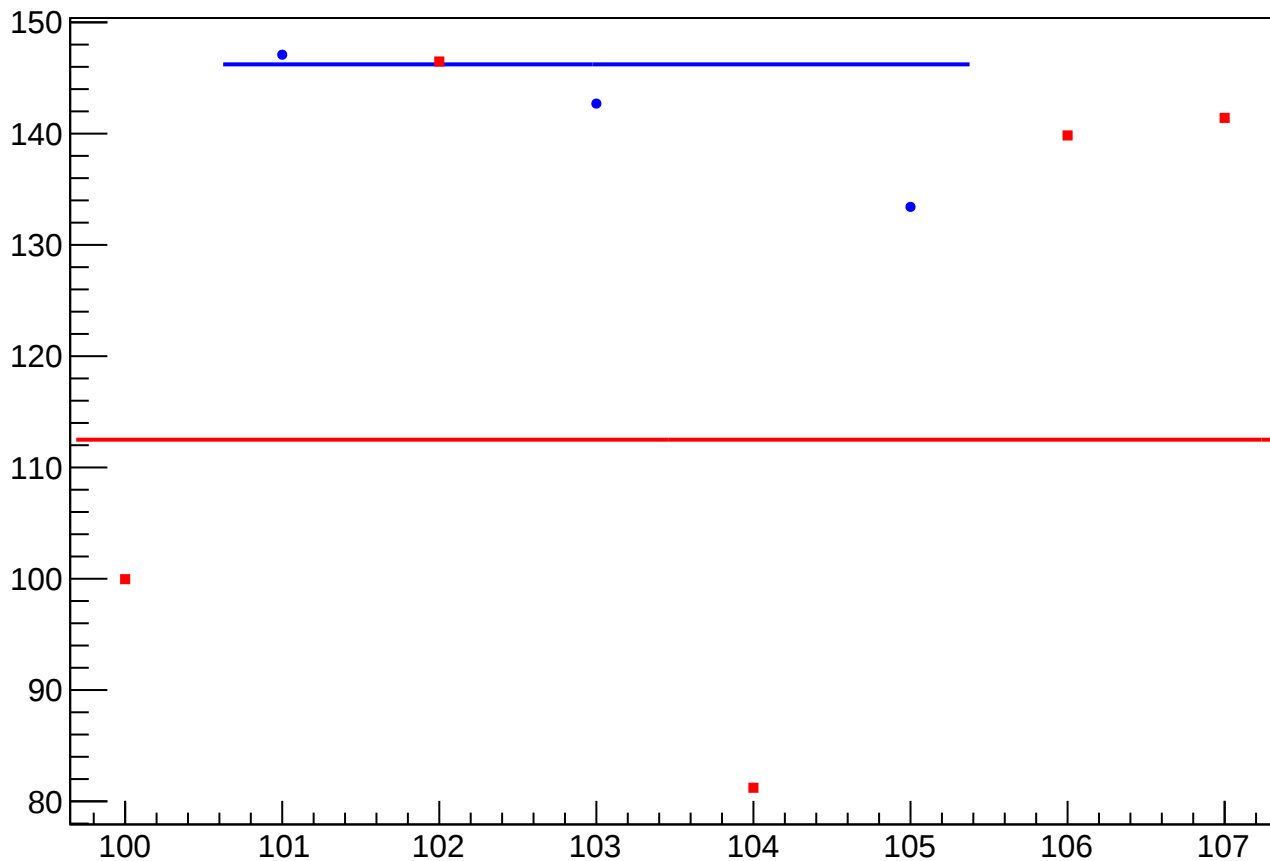
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 476237.7/4

0.006+/-0.000  $\chi^2/\text{NDF}$ : 476237.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_cav4cQ\_mean vs slug



Right In: 146.224 $\pm$ 0.003  $\chi^2$ /NDF: 324640.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

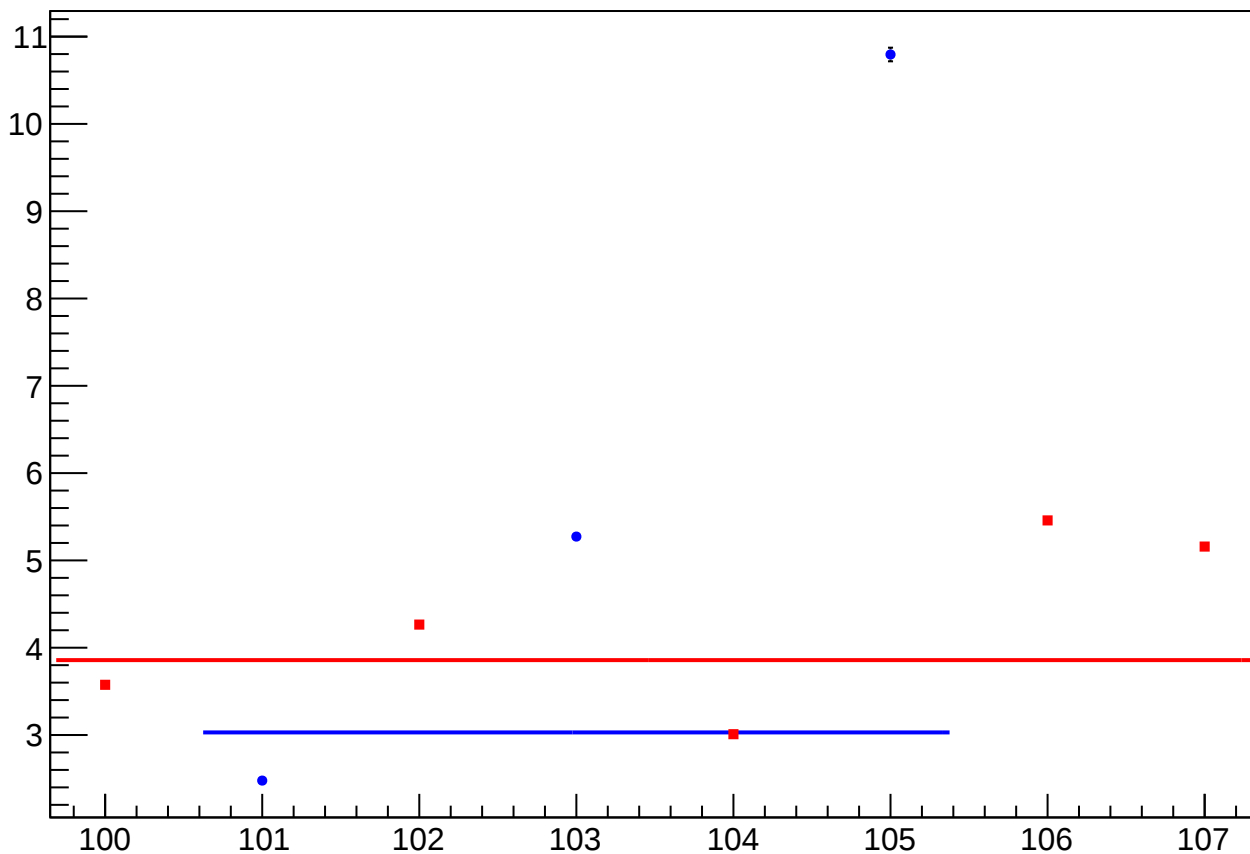
Right Out: 112.497 $\pm$ 0.003  $\chi^2$ /NDF: 97121202.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

146.224 $\pm$ 0.003  $\chi^2$ /NDF: 324640.3/2

112.497 $\pm$ 0.003  $\chi^2$ /NDF: 97121202.8/4

# yield\_cav4cQ\_rms vs slug



Right In: 3.030+/-0.002     $\chi^2/\text{NDF}$ : 261961.7/2

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

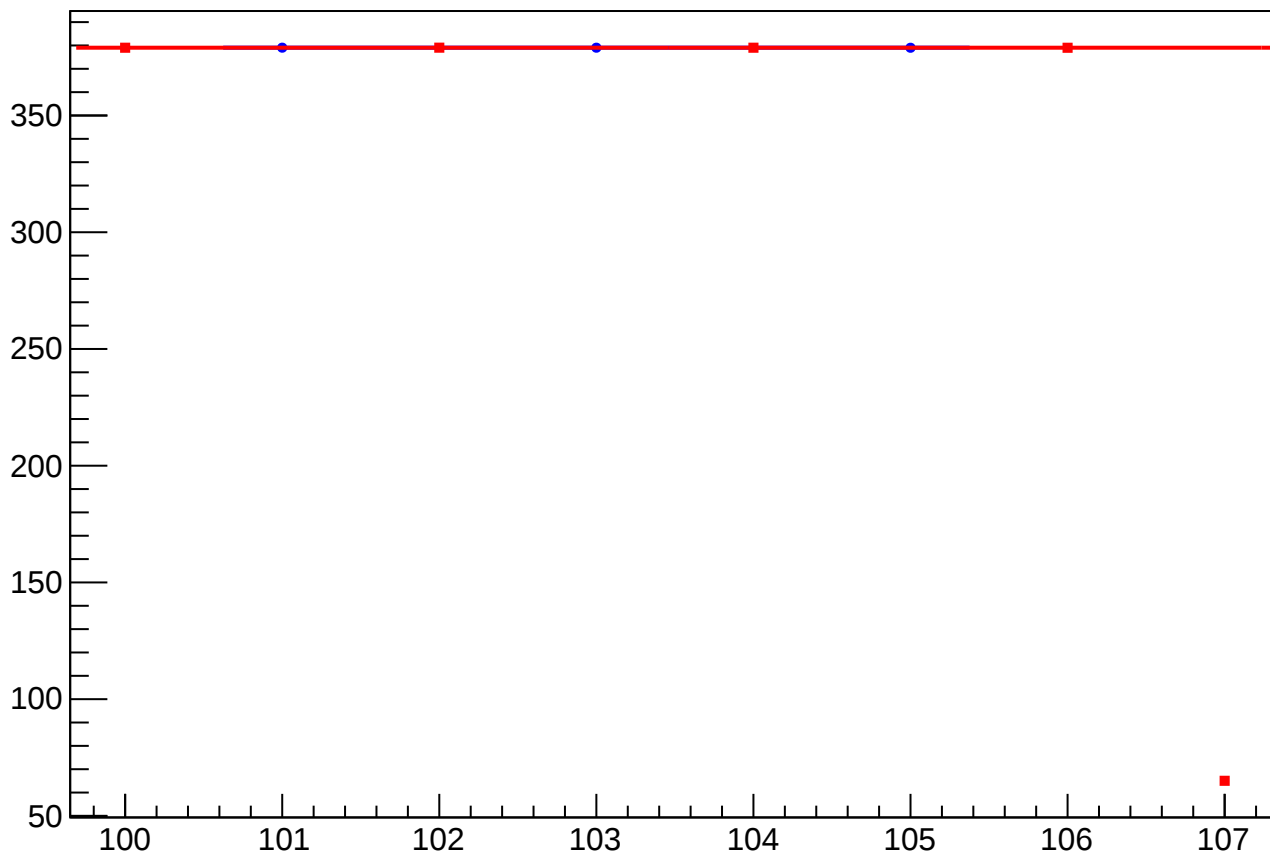
Right Out: 3.858+/-0.002     $\chi^2/\text{NDF}$ : 167097.2/4

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

3.030+/-0.002     $\chi^2/\text{NDF}$ : 261961.7/2

3.858+/-0.002     $\chi^2/\text{NDF}$ : 167097.2/4

yield\_cav4dQ\_mean vs slug



Right In: 379.052 $\pm$ 0.000  $\chi^2$ /NDF: 342113.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

379.052 $\pm$ 0.000  $\chi^2$ /NDF: 342113.2/2

Right Out: 379.039 $\pm$ 0.000  $\chi^2$ /NDF: 22705703711.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

379.039 $\pm$ 0.000  $\chi^2$ /NDF: 22705703711.8/4

yield\_cav4dQ\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 341.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

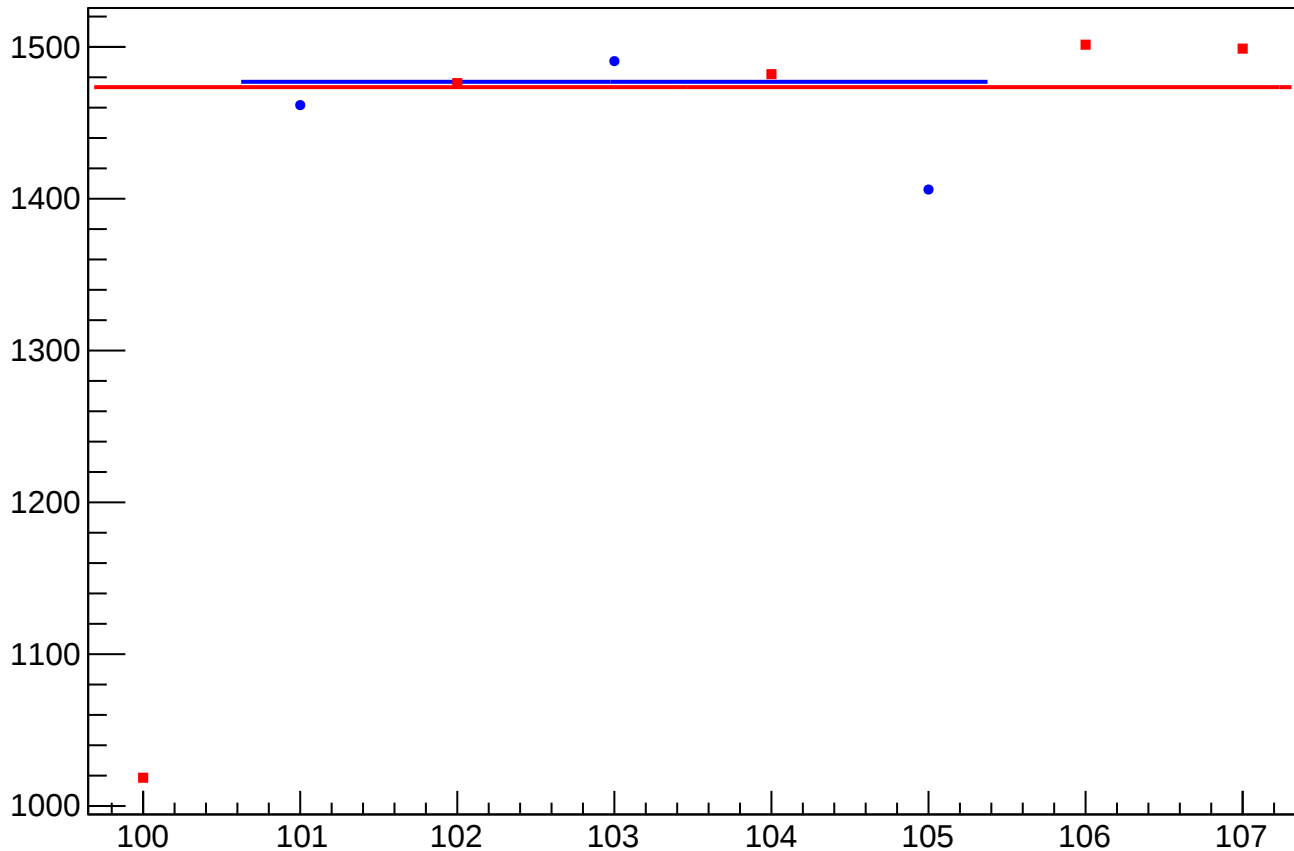
0.007+/-0.000  $\chi^2/\text{NDF}$ : 341.0/2

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 498669.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.007+/-0.000  $\chi^2/\text{NDF}$ : 498669.3/4

yield\_bcm0l02\_mean vs slug



Right In: 1477.017+/-0.011  $\chi^2/\text{NDF}$ : 1643399.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

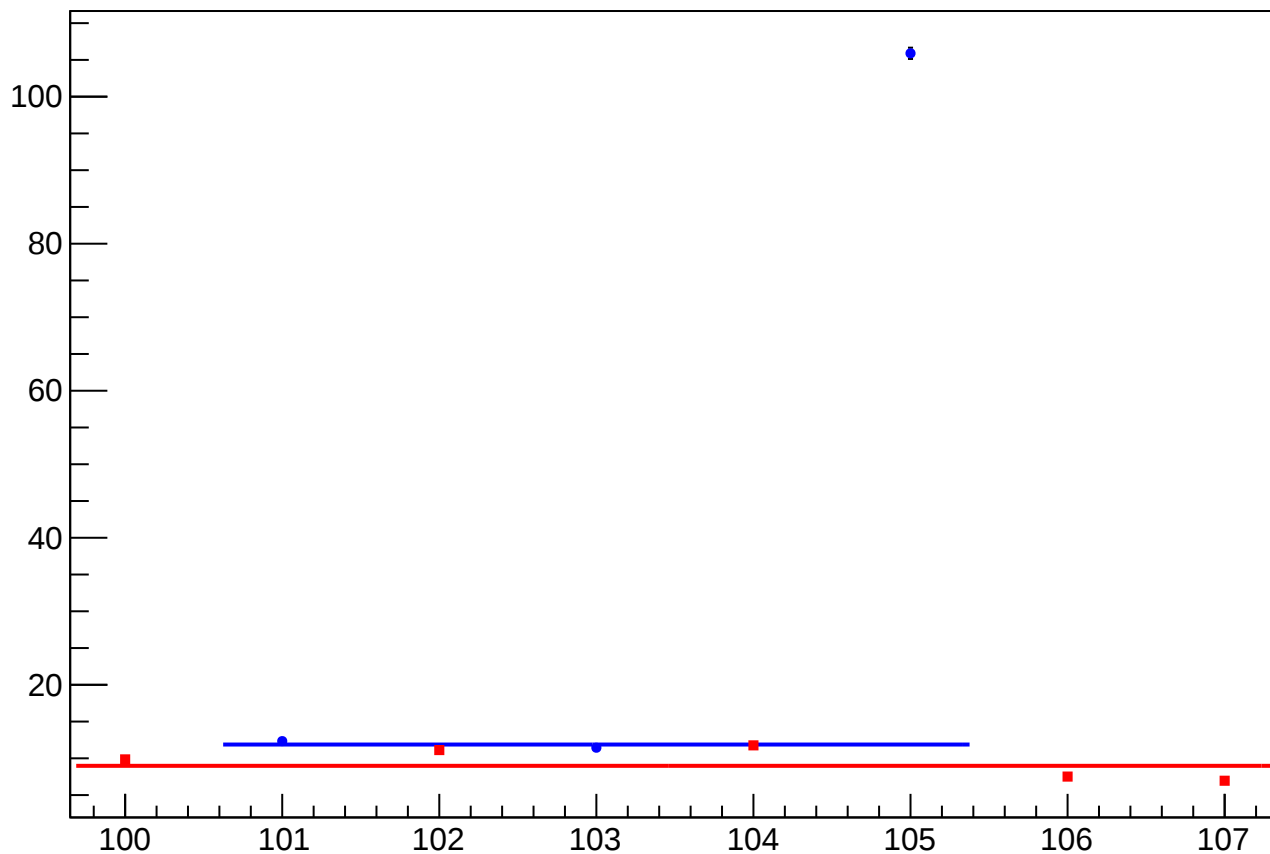
1477.017+/-0.011  $\chi^2/\text{NDF}$ : 1643399.1/2

Right Out: 1473.499+/-0.007  $\chi^2/\text{NDF}$ : 152321271.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1473.499+/-0.007  $\chi^2/\text{NDF}$ : 152321271.9/4

# yield\_bcm0l02\_rms vs slug



Right In: 11.875+/-0.008  $\chi^2/\text{NDF}$ : 18175.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

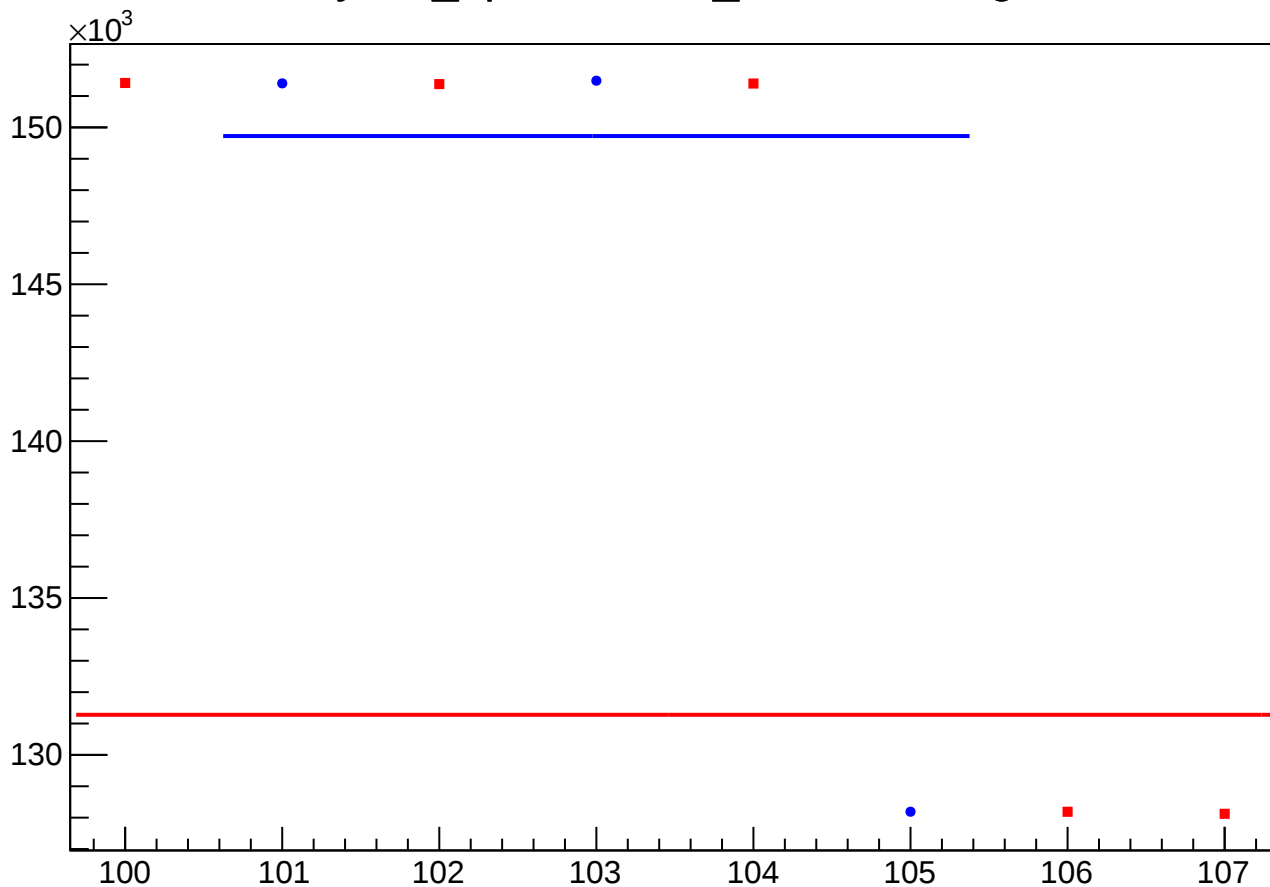
Right Out: 8.979+/-0.005  $\chi^2/\text{NDF}$ : 160771.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

11.875+/-0.008  $\chi^2/\text{NDF}$ : 18175.4/2

8.979+/-0.005  $\chi^2/\text{NDF}$ : 160771.5/4

# yield\_bpm2i01WS\_mean vs slug



Right In: 149724.134 $\pm$ 0.356  $\chi^2$ /NDF: 291839881.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

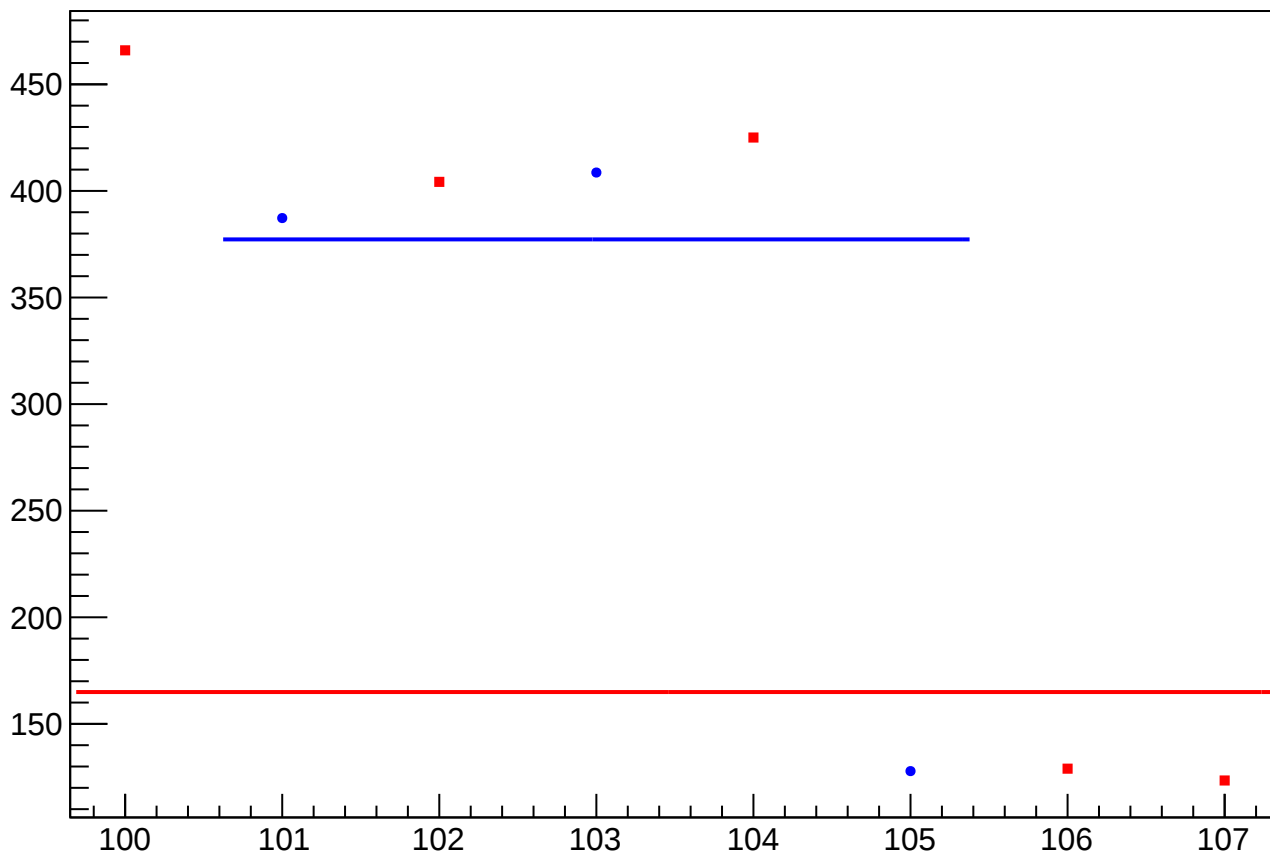
149724.134 $\pm$ 0.356  $\chi^2$ /NDF: 291839881.3/2

Right Out: 131278.176 $\pm$ 0.145  $\chi^2$ /NDF: 2983890465.8/4

131278.176 $\pm$ 0.145  $\chi^2$ /NDF: 2983890465.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_rms vs slug



Right In: 377.260 $\pm$ 0.252  $\chi^2$ /NDF: 79943.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

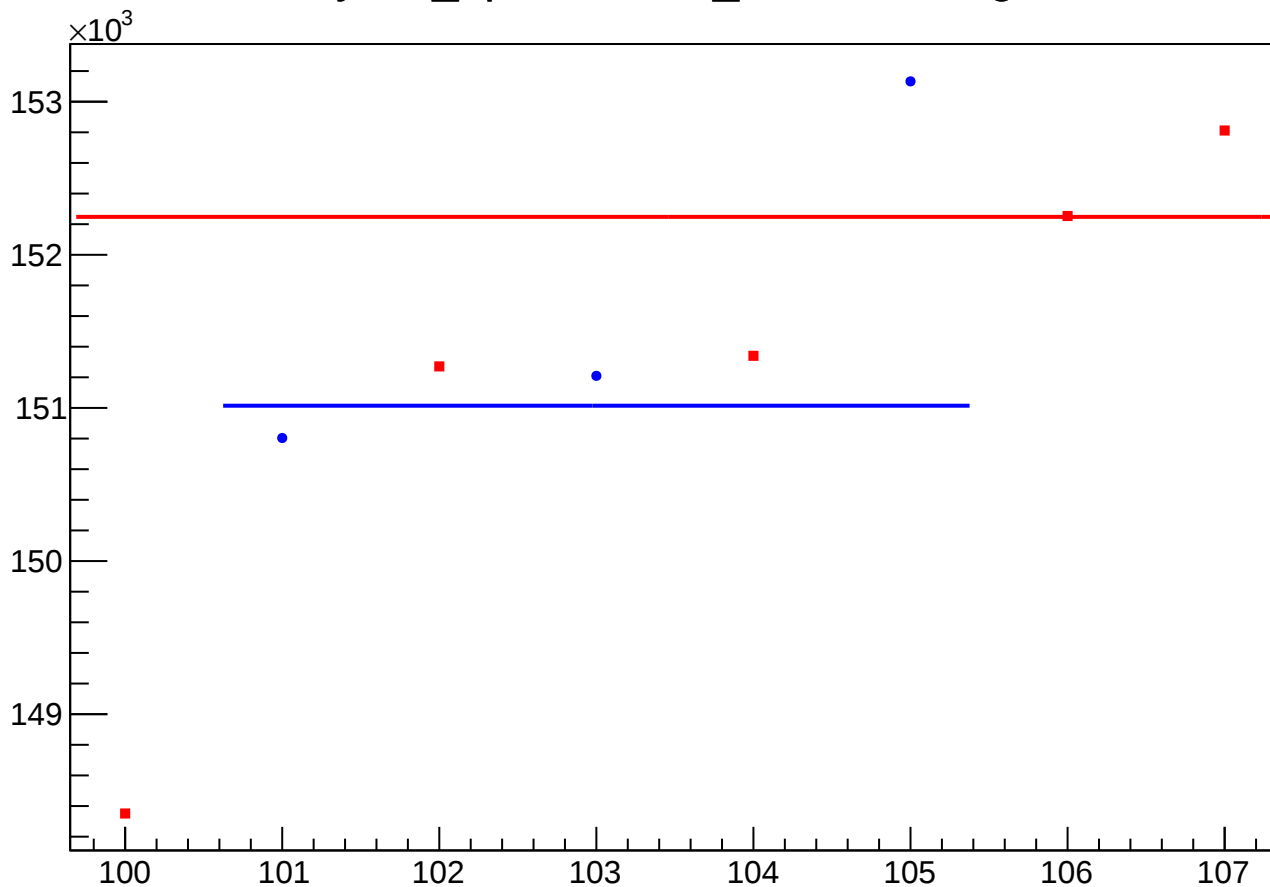
Right Out: 164.935 $\pm$ 0.103  $\chi^2$ /NDF: 935311.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

377.260 $\pm$ 0.252  $\chi^2$ /NDF: 79943.6/2

164.935 $\pm$ 0.103  $\chi^2$ /NDF: 935311.0/4

# yield\_bpm0i07WS\_mean vs slug



Right In: 151014.520 $\pm$ 0.351  $\chi^2$ /NDF: 553774.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

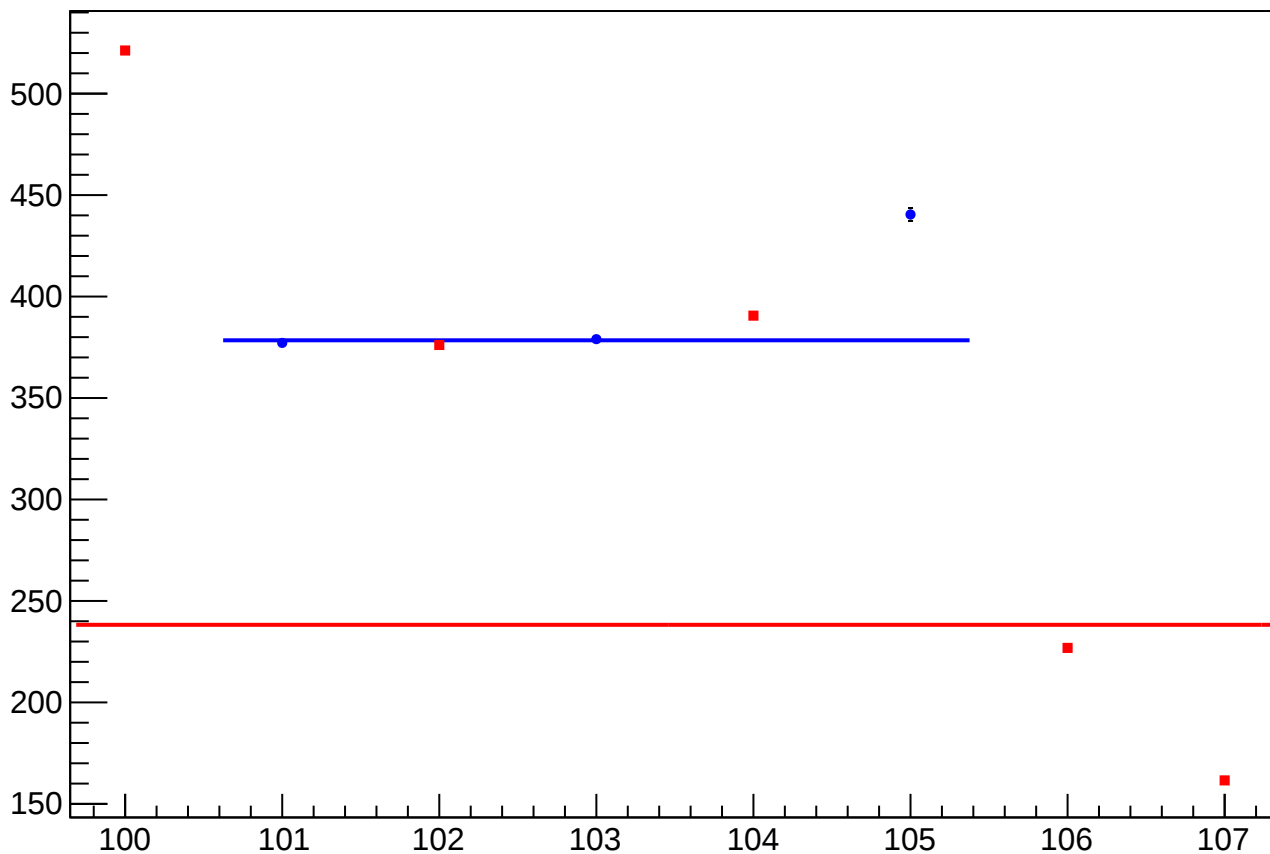
151014.520 $\pm$ 0.351  $\chi^2$ /NDF: 553774.7/2

Right Out: 152247.767 $\pm$ 0.198  $\chi^2$ /NDF: 14576206.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

152247.767 $\pm$ 0.198  $\chi^2$ /NDF: 14576206.2/4

# yield\_bpm0i07WS\_rms vs slug



Right In: 378.442 $\pm$ 0.248  $\chi^2$ /NDF: 393.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

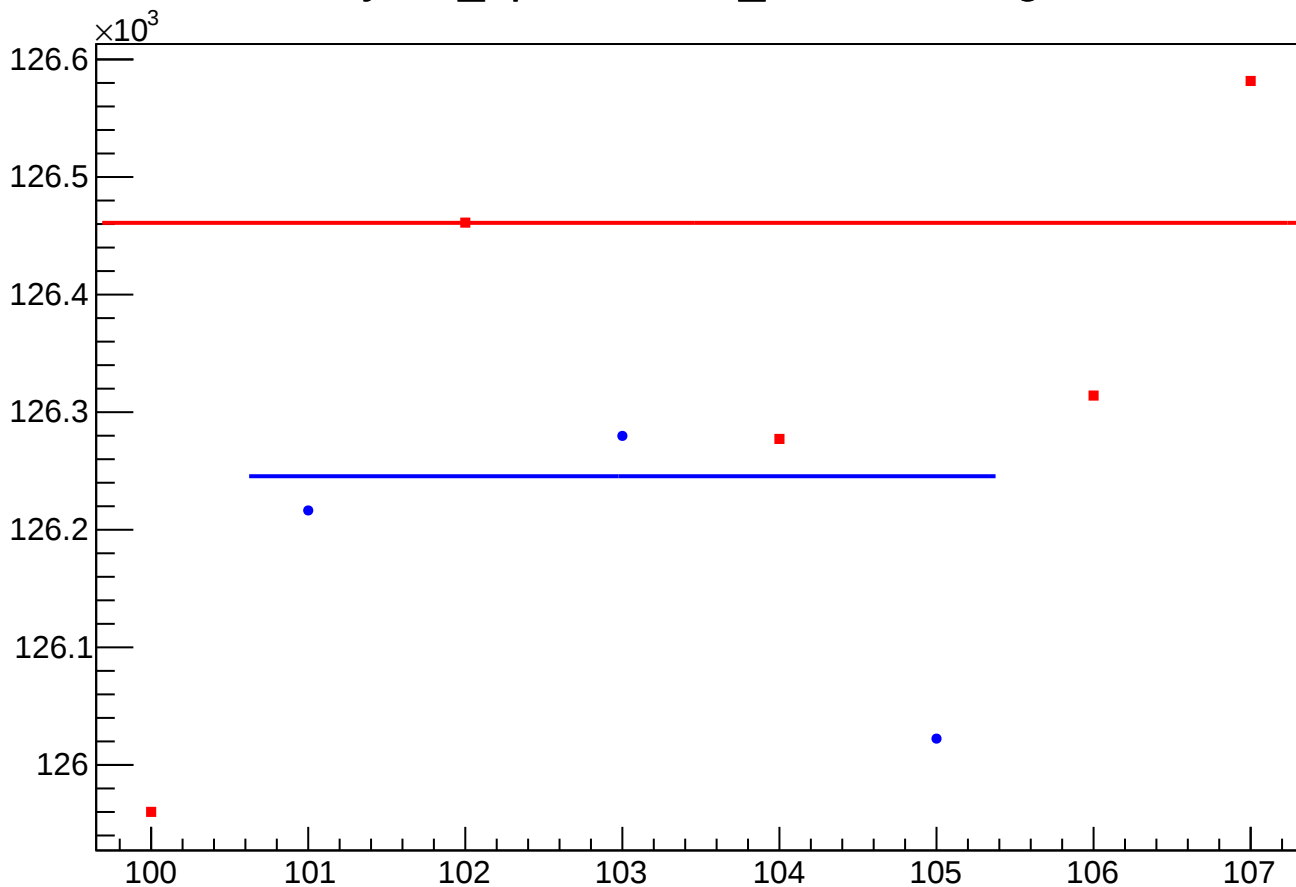
Right Out: 238.242 $\pm$ 0.140  $\chi^2$ /NDF: 498765.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

378.442 $\pm$ 0.248  $\chi^2$ /NDF: 393.5/2

238.242 $\pm$ 0.140  $\chi^2$ /NDF: 498765.1/4

# yield\_bpm0l01WS\_mean vs slug



Right In: 126245.532 $\pm$ 0.284  $\chi^2$ /NDF: 17142.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

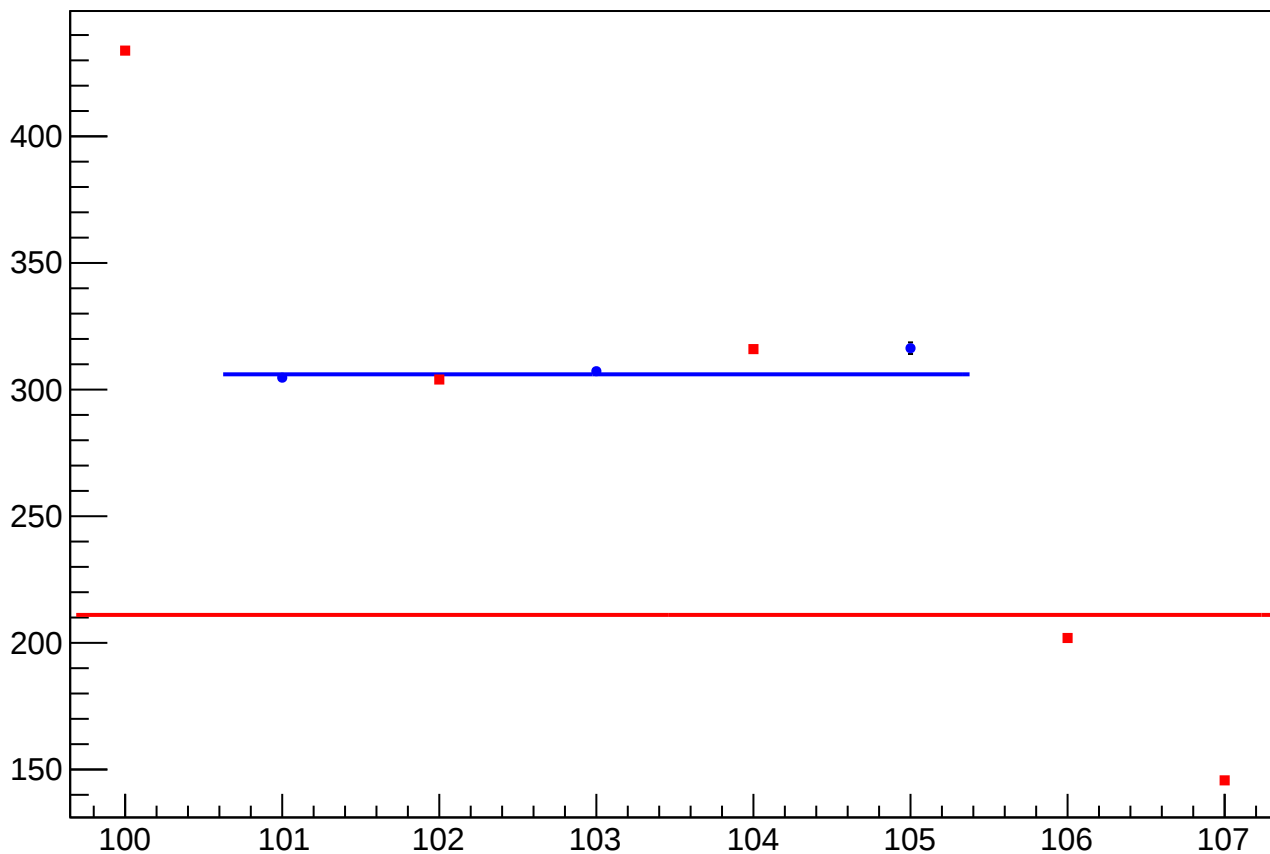
Right Out: 126461.017 $\pm$ 0.171  $\chi^2$ /NDF: 638657.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

126245.532 $\pm$ 0.284  $\chi^2$ /NDF: 17142.6/2

126461.017 $\pm$ 0.171  $\chi^2$ /NDF: 638657.8/4

# yield\_bpm0l01WS\_rms vs slug



Right In: 306.033+/-0.201  $\chi^2/\text{NDF}$ : 60.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

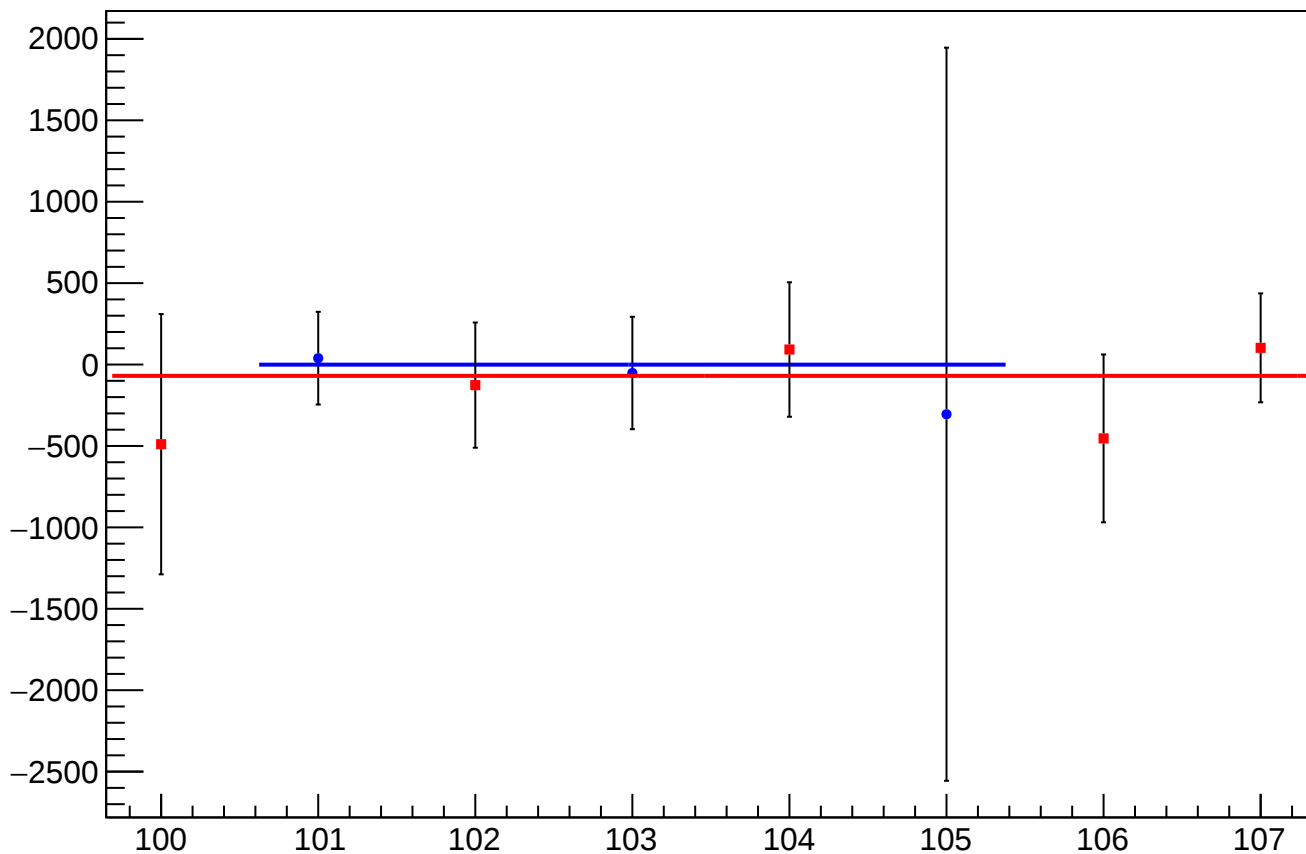
Right Out: 211.038+/-0.121  $\chi^2/\text{NDF}$ : 390995.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

306.033+/-0.201  $\chi^2/\text{NDF}$ : 60.6/2

211.038+/-0.121  $\chi^2/\text{NDF}$ : 390995.6/4

# asym\_bcm\_an\_ds\_mean vs slug



Right In: -0.620+/-218.646  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

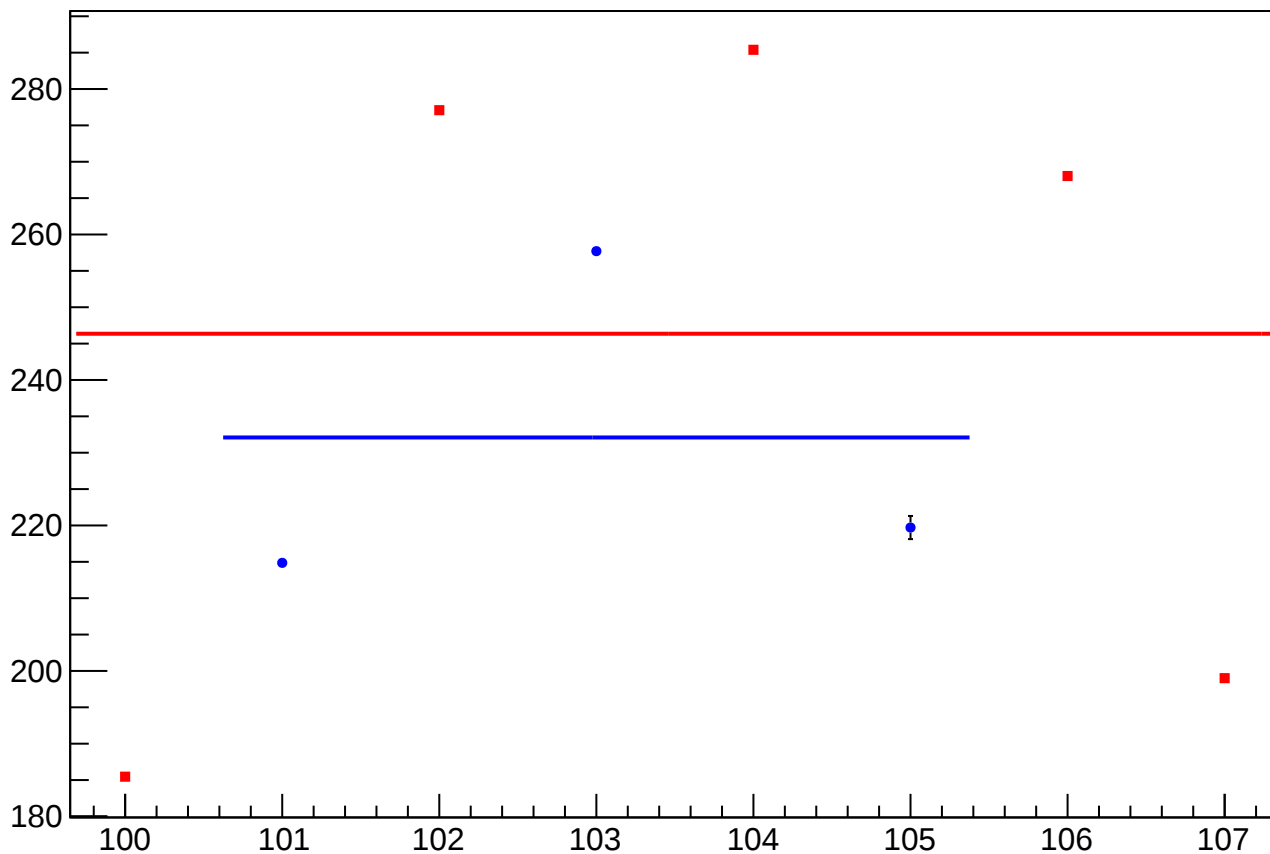
Right Out: -69.488+/-192.807  $\chi^2$ /NDF: 1.3/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.620+/-218.646  $\chi^2$ /NDF: 0.1/2

-69.488+/-192.807  $\chi^2$ /NDF: 1.3/4

# asym\_bcm\_an\_ds\_rms vs slug



Right In: 232.096 $\pm$ 0.155  $\chi^2$ /NDF: 18397.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

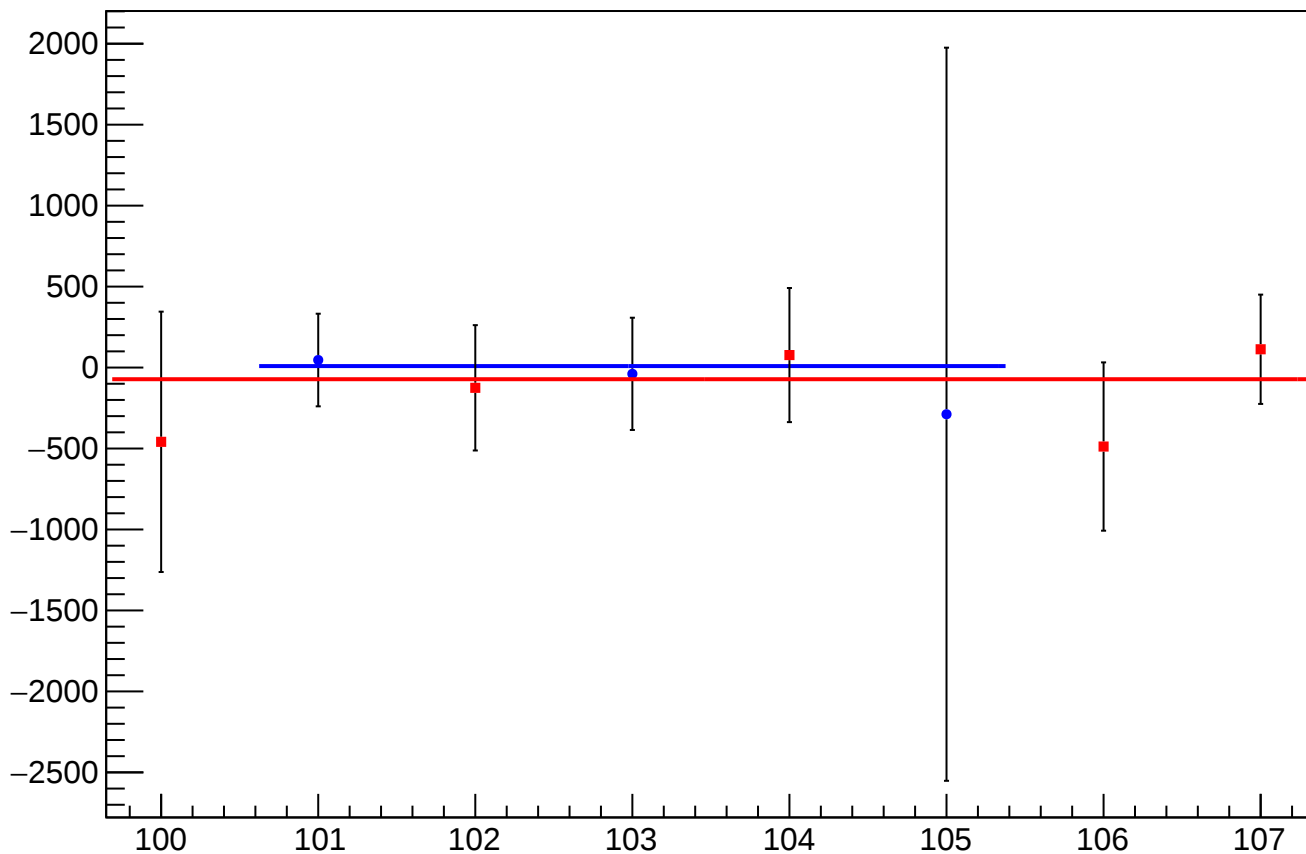
Right Out: 246.357 $\pm$ 0.136  $\chi^2$ /NDF: 85886.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

232.096 $\pm$ 0.155  $\chi^2$ /NDF: 18397.9/2

246.357 $\pm$ 0.136  $\chi^2$ /NDF: 85886.9/4

# asym\_bcm\_an\_ds3\_mean vs slug



Right In: 9.124+/-219.565  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

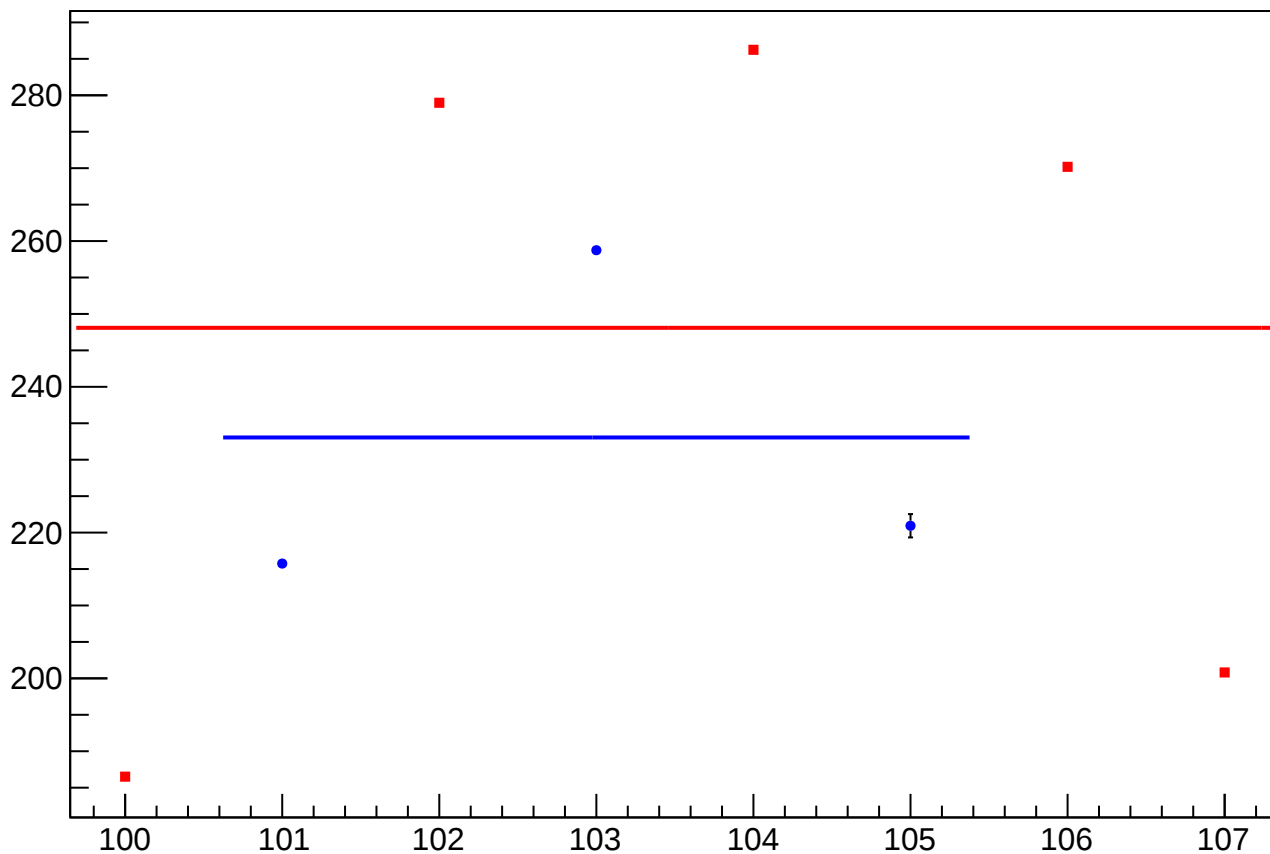
Right Out: -71.979+/-194.132  $\chi^2/\text{NDF}$ : 1.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.124+/-219.565  $\chi^2/\text{NDF}$ : 0.1/2

-71.979+/-194.132  $\chi^2/\text{NDF}$ : 1.3/4

# asym\_bcm\_an\_ds3\_rms vs slug



Right In: 233.052 $\pm$ 0.155  $\chi^2$ /NDF: 18366.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

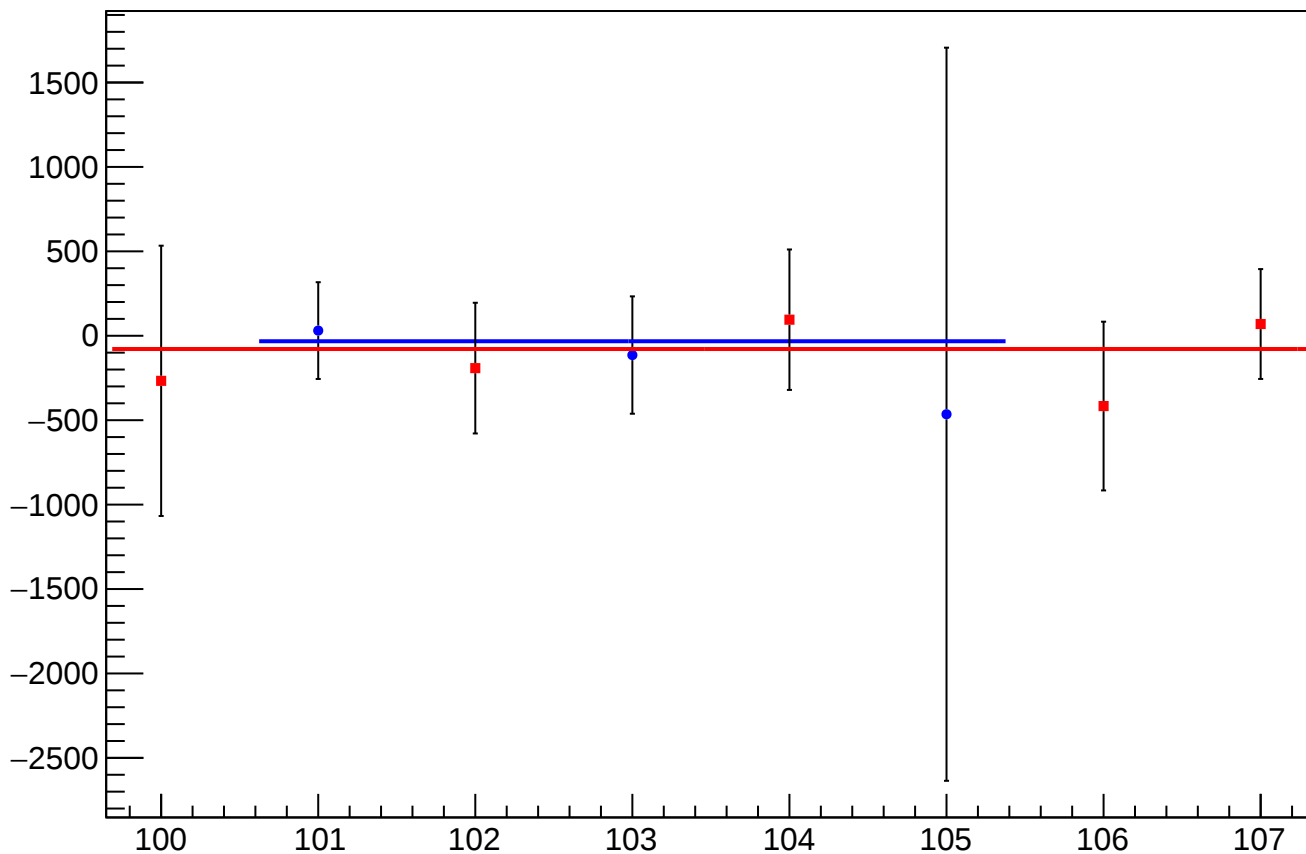
Right Out: 248.096 $\pm$ 0.137  $\chi^2$ /NDF: 84298.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

233.052 $\pm$ 0.155  $\chi^2$ /NDF: 18366.7/2

248.096 $\pm$ 0.137  $\chi^2$ /NDF: 84298.1/4

# asym\_bcm\_an\_us\_mean vs slug



Right In: -32.416 $\pm$ 219.928  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

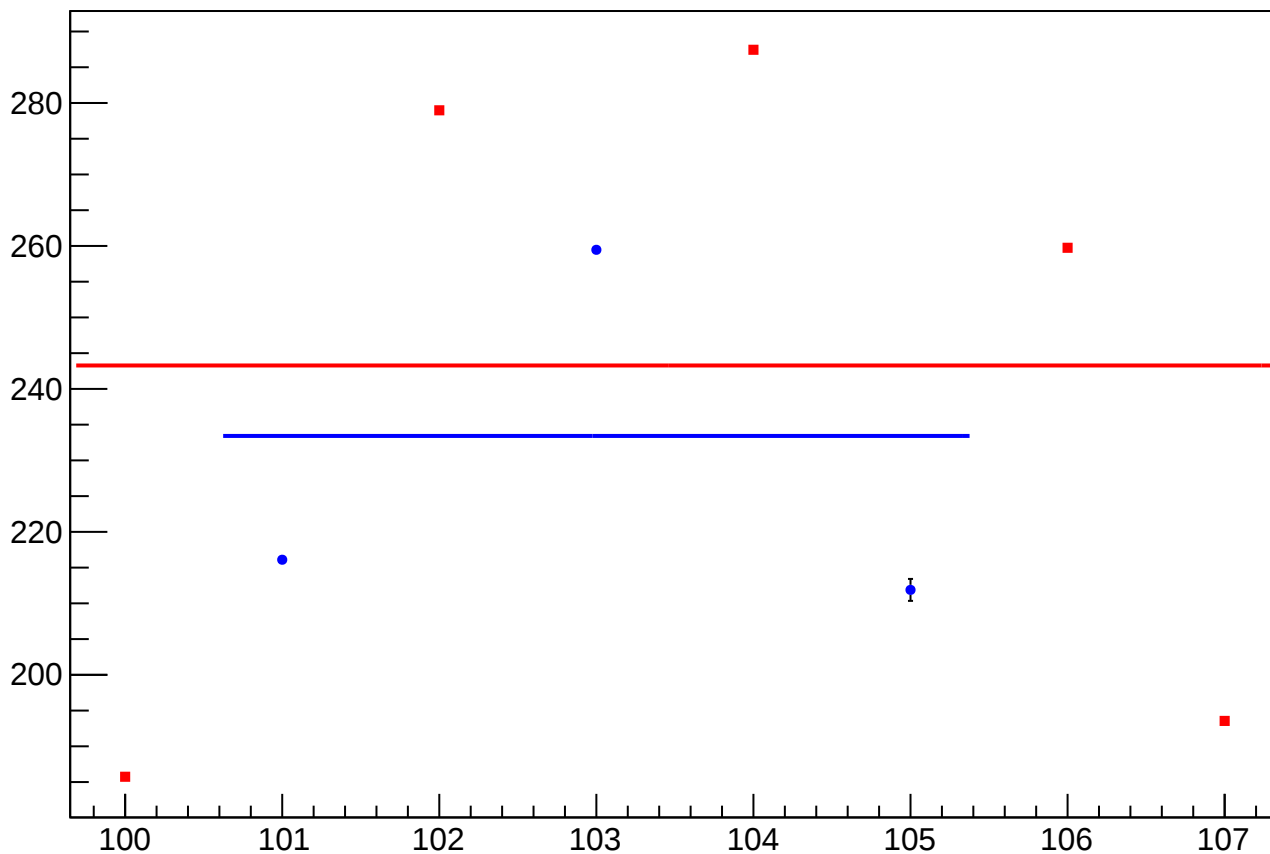
Right Out: -78.431 $\pm$ 190.790  $\chi^2$ /NDF: 1.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-32.416 $\pm$ 219.928  $\chi^2$ /NDF: 0.1/2

-78.431 $\pm$ 190.790  $\chi^2$ /NDF: 1.0/4

# asym\_bcm\_an\_us\_rms vs slug



Right In: 233.421+/-0.156  $\chi^2/\text{NDF}$ : 18732.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

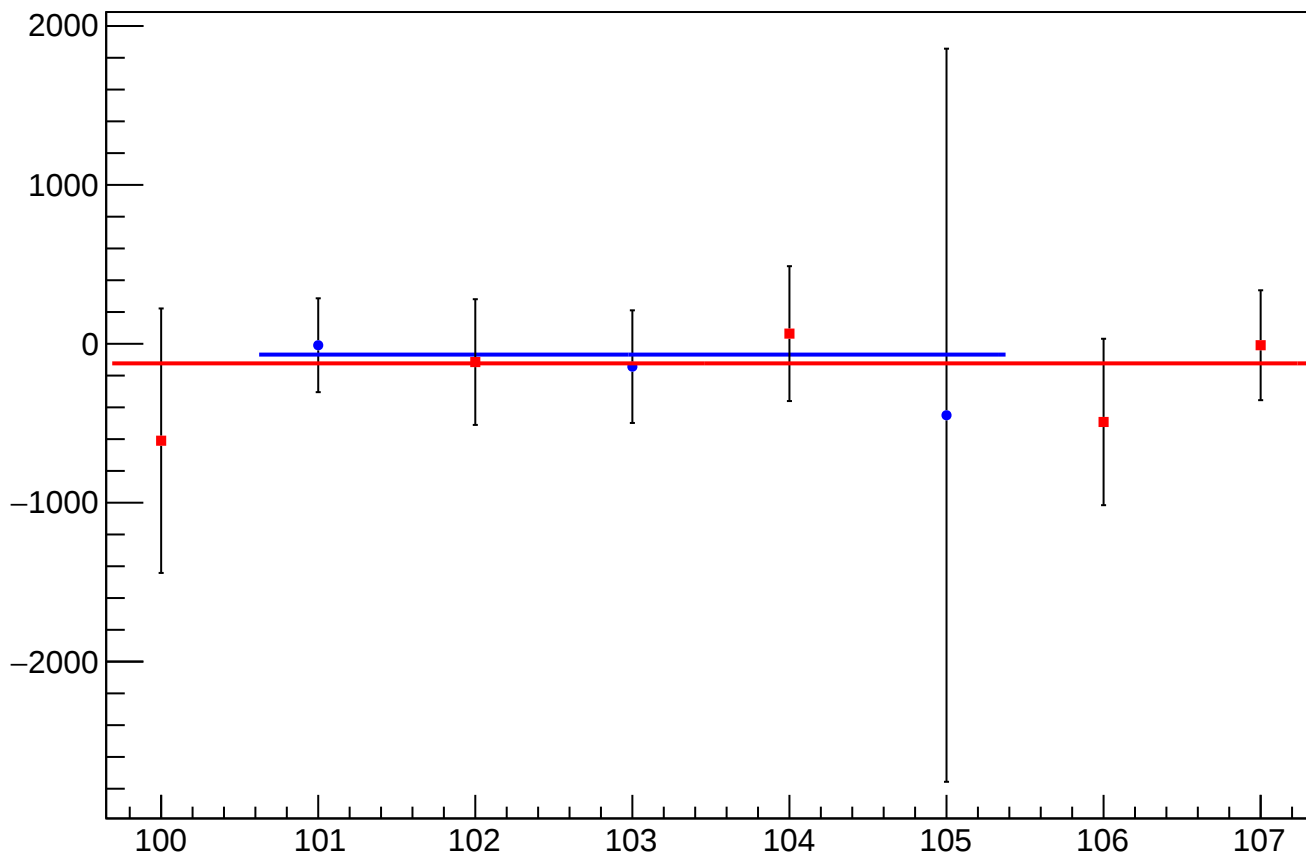
Right Out: 243.278+/-0.135  $\chi^2/\text{NDF}$ : 98802.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

233.421+/-0.156  $\chi^2/\text{NDF}$ : 18732.9/2

243.278+/-0.135  $\chi^2/\text{NDF}$ : 98802.0/4

# asym\_bcm\_dg\_us\_mean vs slug



Right In: -67.932+/-225.790  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

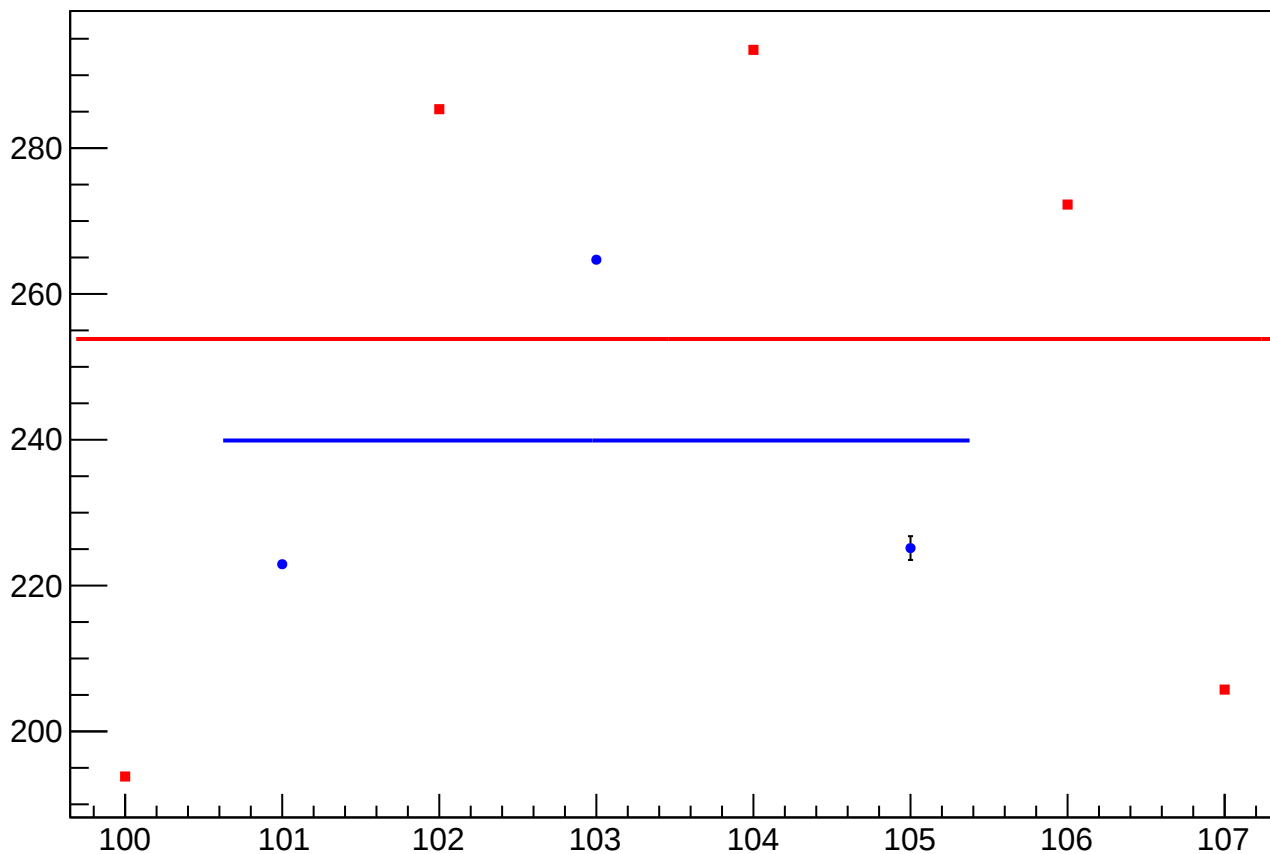
Right Out: -123.169+/-198.430  $\chi^2/\text{NDF}$ : 1.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-67.932+/-225.790  $\chi^2/\text{NDF}$ : 0.1/2

-123.169+/-198.430  $\chi^2/\text{NDF}$ : 1.1/4

# asym\_bcm\_dg\_us\_rms vs slug



Right In: 239.900 $\pm$ 0.160  $\chi^2$ /NDF: 16476.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

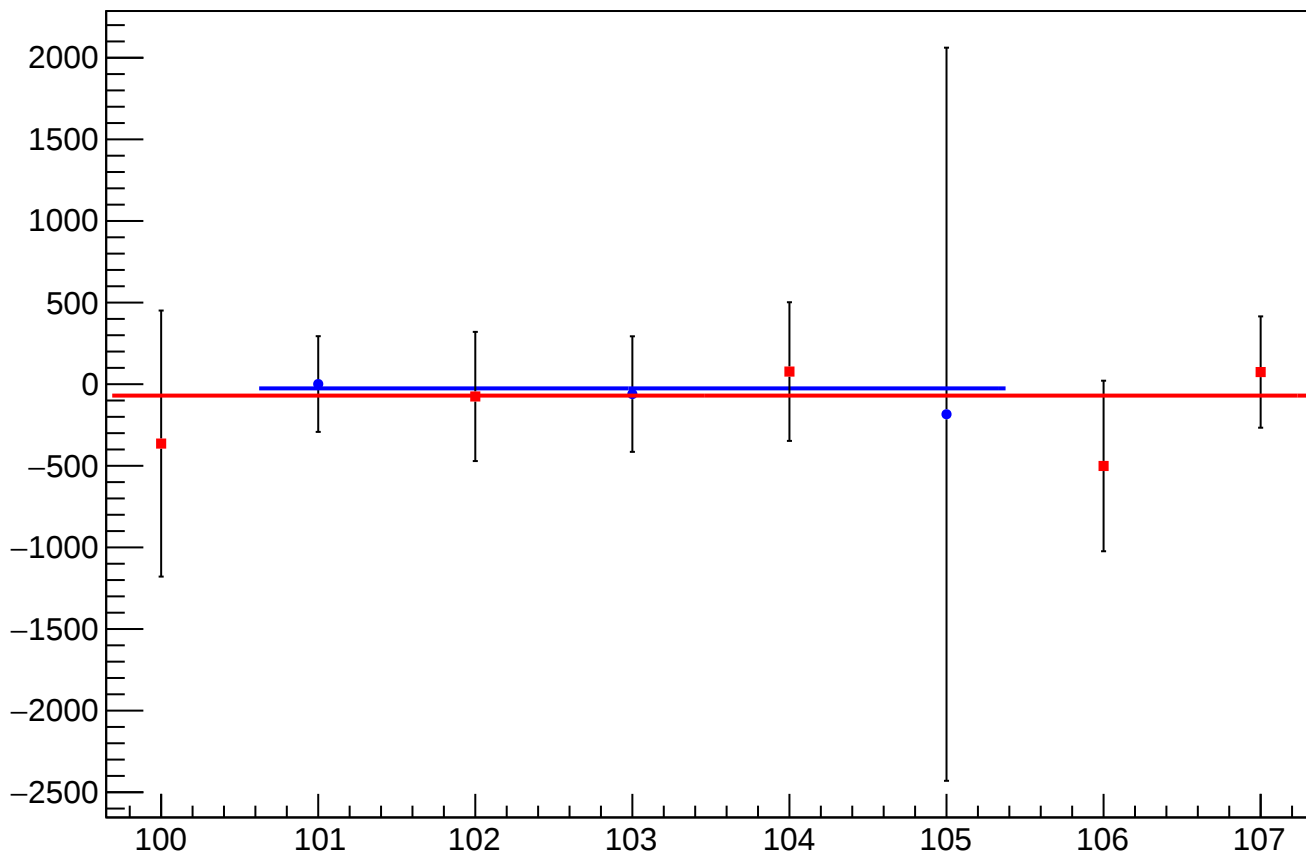
Right Out: 253.823 $\pm$ 0.140  $\chi^2$ /NDF: 81714.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

239.900 $\pm$ 0.160  $\chi^2$ /NDF: 16476.1/2

253.823 $\pm$ 0.140  $\chi^2$ /NDF: 81714.3/4

asym\_bcm\_dg\_ds\_mean vs slug



Right In: -25.678+/-224.678  $\chi^2/\text{NDF}$ : 0.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

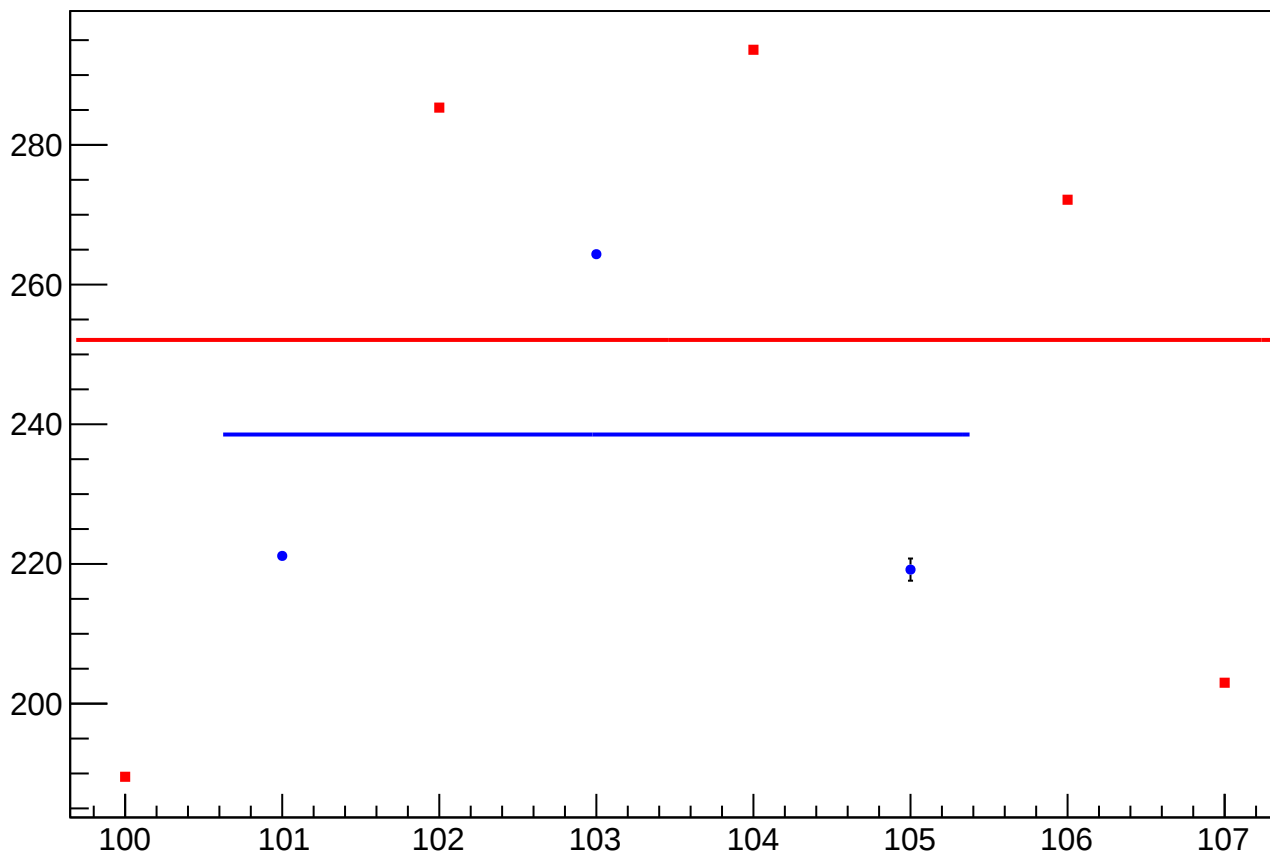
Right Out: -69.858+/-197.278  $\chi^2/\text{NDF}$ : 1.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-25.678+/-224.678  $\chi^2/\text{NDF}$ : 0.0/2

-69.858+/-197.278  $\chi^2/\text{NDF}$ : 1.1/4

# asym\_bcm\_dg\_ds\_rms vs slug



Right In: 238.533+/-0.159  $\chi^2/\text{NDF}$ : 17814.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

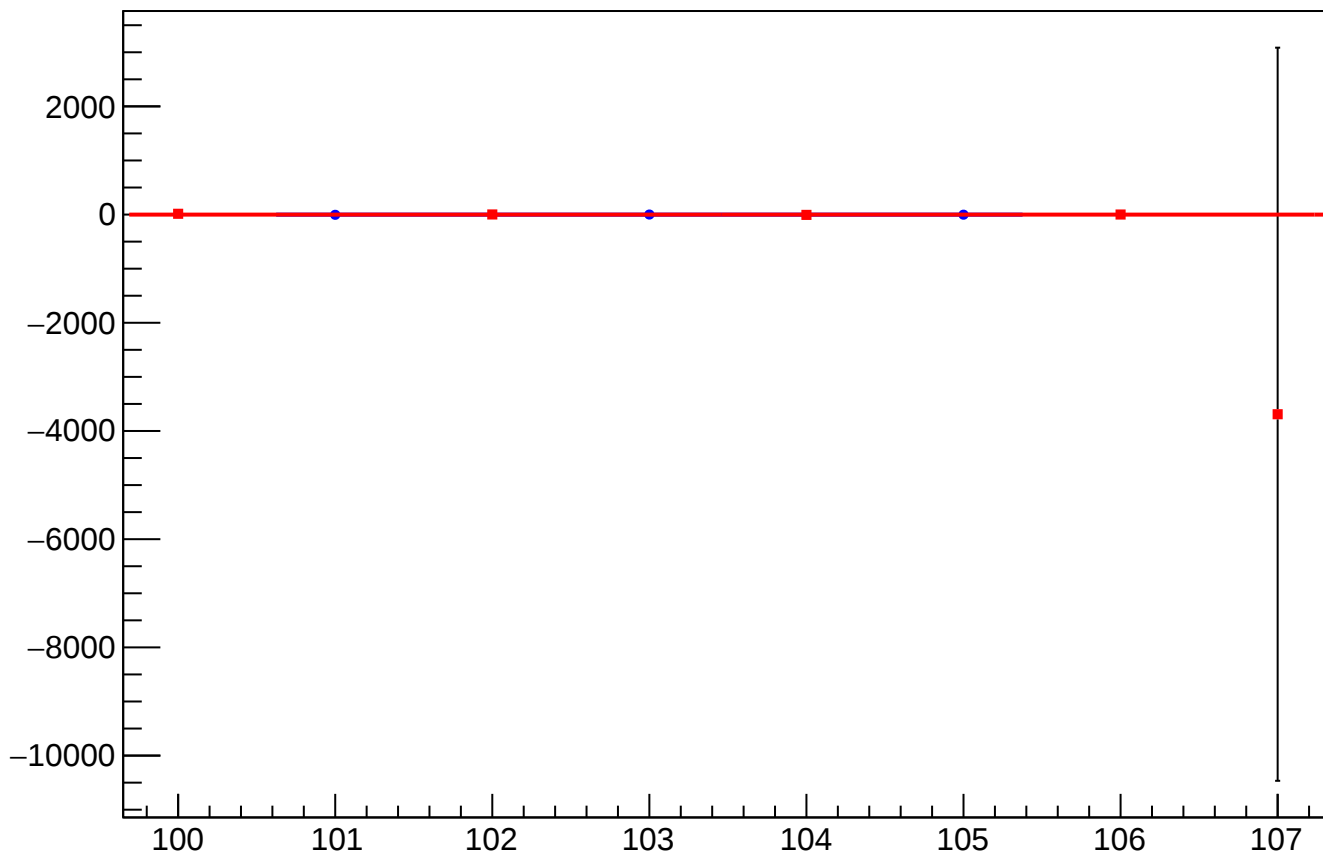
Right Out: 252.076+/-0.139  $\chi^2/\text{NDF}$ : 89421.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

238.533+/-0.159  $\chi^2/\text{NDF}$ : 17814.1/2

252.076+/-0.139  $\chi^2/\text{NDF}$ : 89421.4/4

asym\_cav4bQ\_mean vs slug



Right In: -1.527 $\pm$ 2.238  $\chi^2$ /NDF: 1.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

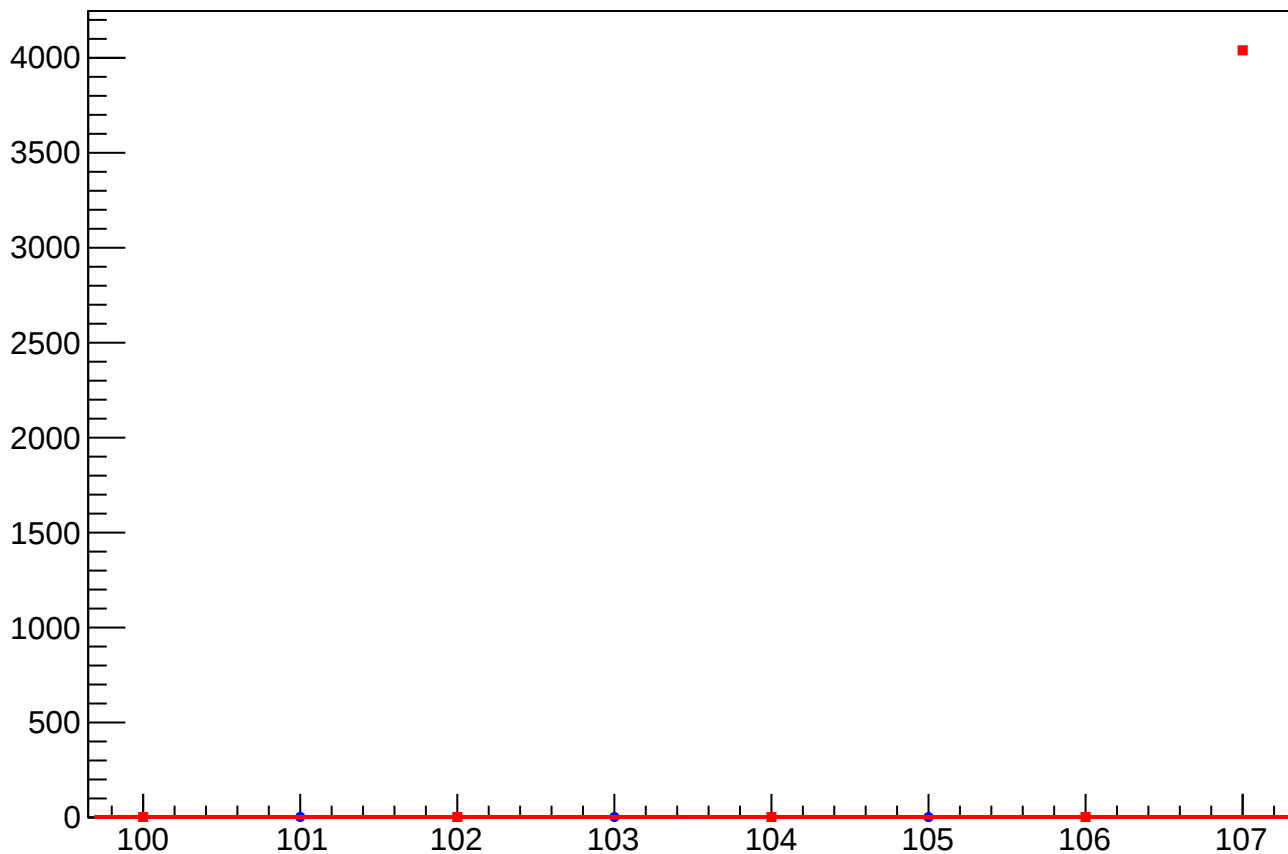
Right Out: -0.712 $\pm$ 2.111  $\chi^2$ /NDF: 6.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-1.527 $\pm$ 2.238  $\chi^2$ /NDF: 1.3/2

-0.712 $\pm$ 2.111  $\chi^2$ /NDF: 6.2/4

# asym\_cav4bQ\_rms vs slug



Right In: 2.405 $\pm$ 0.002  $\chi^2$ /NDF: 14098.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

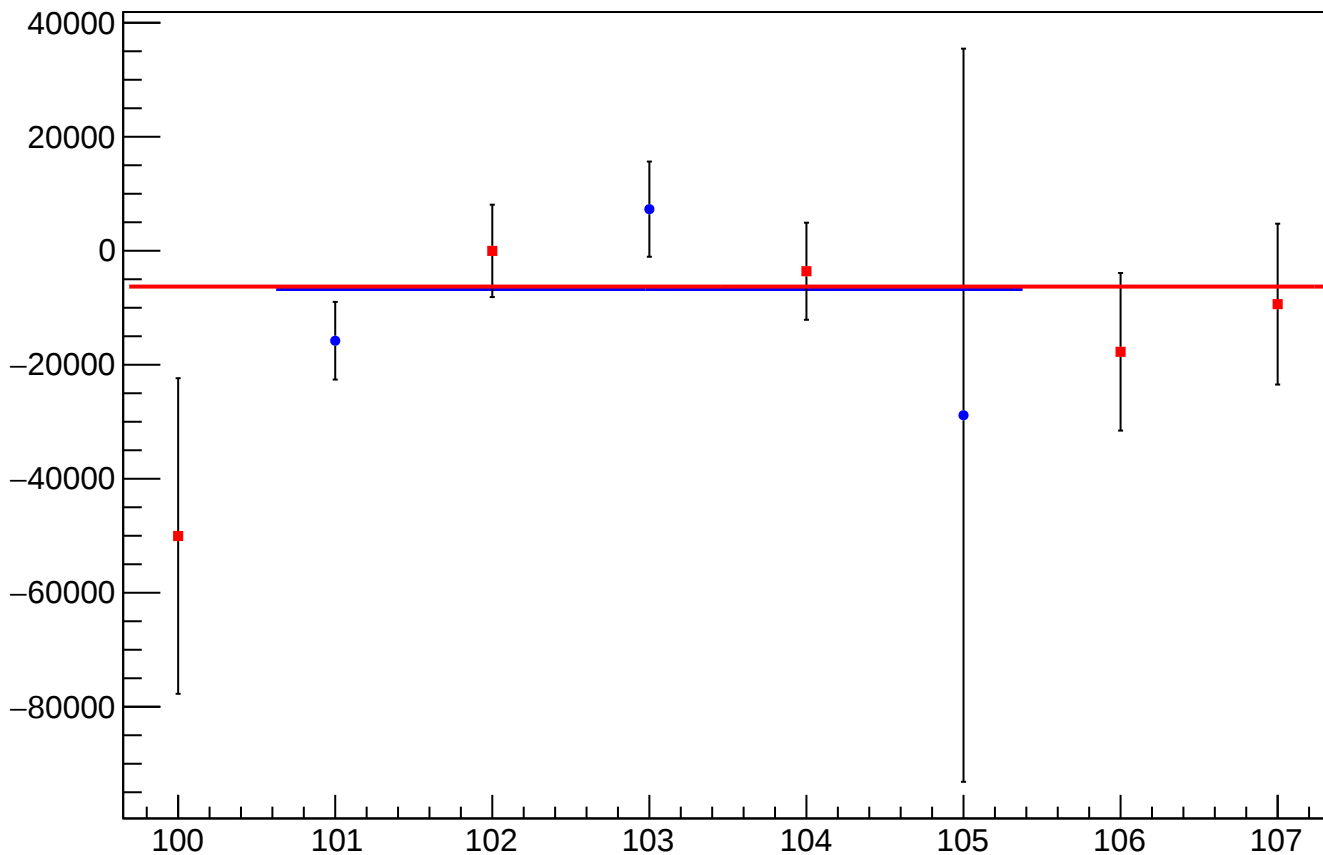
Right Out: 2.396 $\pm$ 0.001  $\chi^2$ /NDF: 721918.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2.405 $\pm$ 0.002  $\chi^2$ /NDF: 14098.3/2

2.396 $\pm$ 0.001  $\chi^2$ /NDF: 721918.8/4

asym\_cav4cQ\_mean vs slug



Right In: -6707.110+/-5261.489  $\chi^2/\text{NDF}$ : 4.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

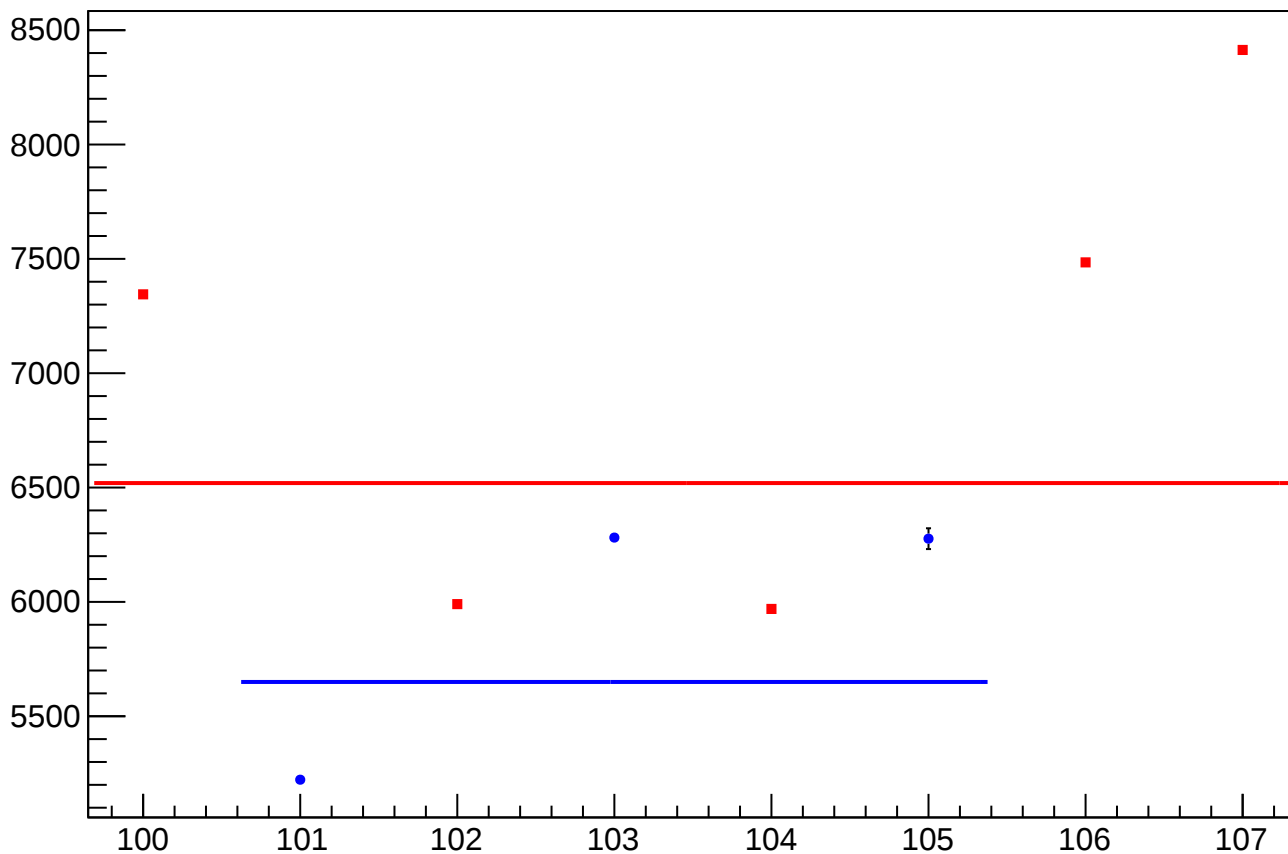
Right Out: -6284.059+/-4964.971  $\chi^2/\text{NDF}$ : 3.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6707.110+/-5261.489  $\chi^2/\text{NDF}$ : 4.7/2

-6284.059+/-4964.971  $\chi^2/\text{NDF}$ : 3.9/4

# asym\_cav4cQ\_rms vs slug



Right In: 5649.881+/-3.720     $\chi^2/\text{NDF}$ : 19491.5/2

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

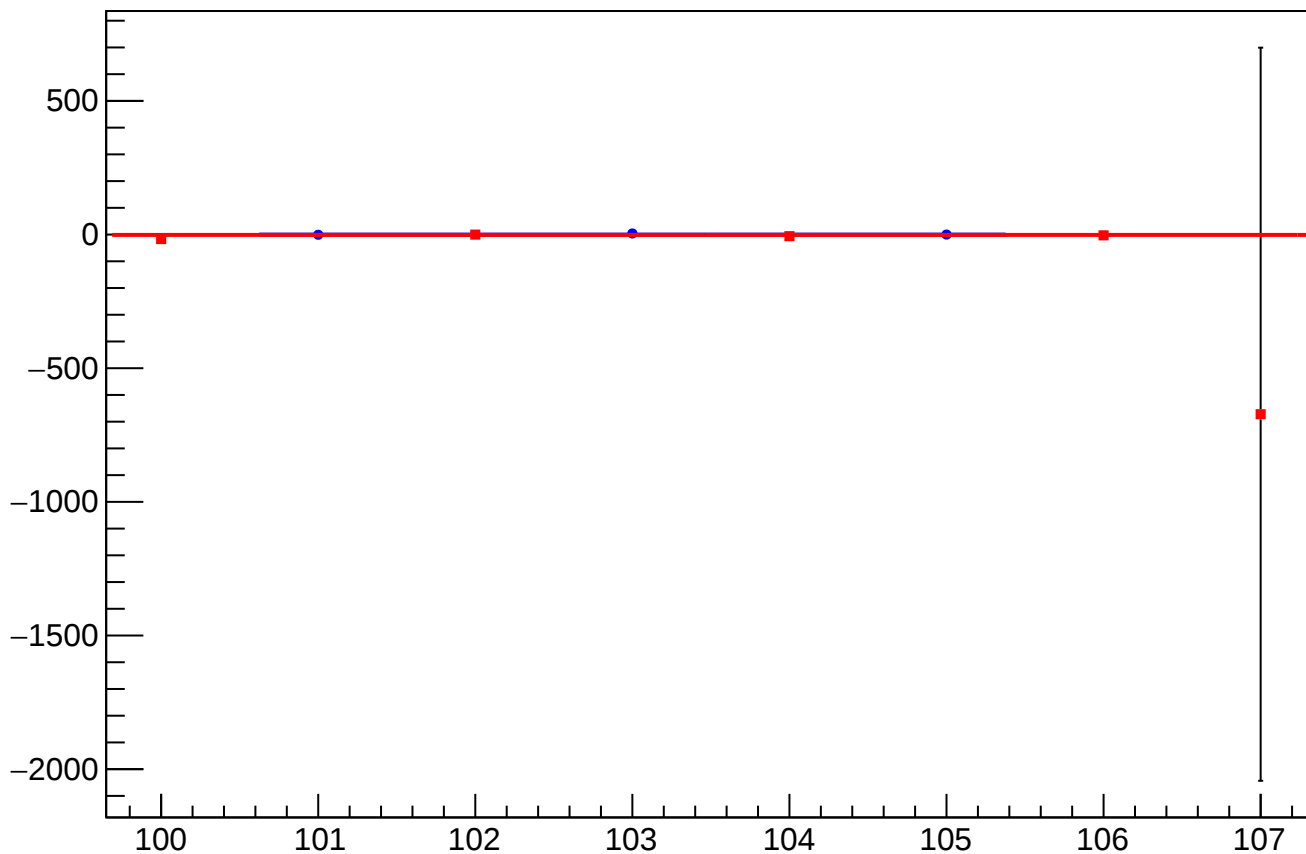
Right Out: 6519.622+/-3.511     $\chi^2/\text{NDF}$ : 64442.1/4

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

5649.881+/-3.720     $\chi^2/\text{NDF}$ : 19491.5/2

6519.622+/-3.511     $\chi^2/\text{NDF}$ : 64442.1/4

asym\_cav4dQ\_mean vs slug



Right In: -0.157+/-1.724  $\chi^2$ /NDF: 0.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.335+/-1.623  $\chi^2$ /NDF: 3.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.157+/-1.724  $\chi^2$ /NDF: 0.8/2

-1.335+/-1.623  $\chi^2$ /NDF: 3.0/4

# asym\_cav4dQ\_rms vs slug



Right In: 1.411+/-0.001  $\chi^2/\text{NDF}$ : 462.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

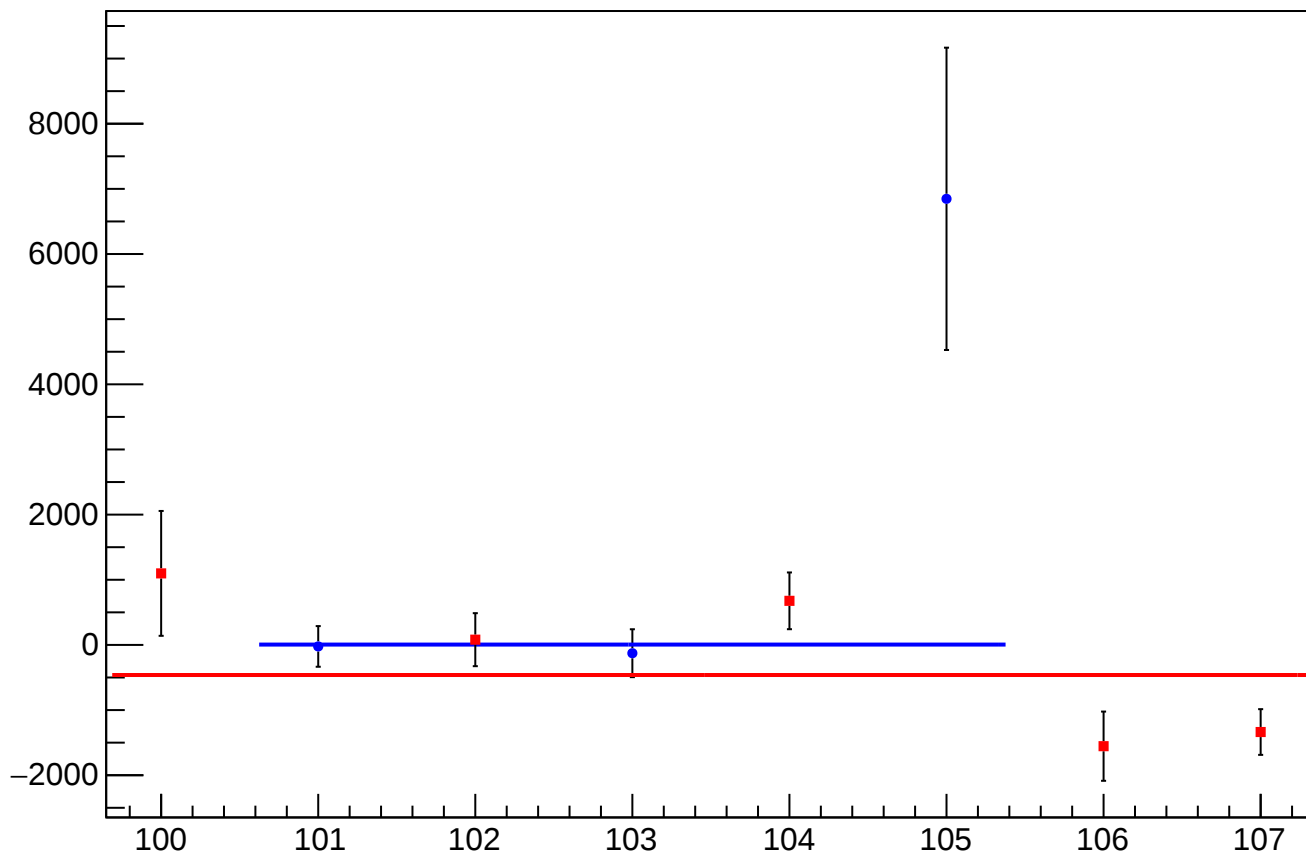
Right Out: 1.415+/-0.001  $\chi^2/\text{NDF}$ : 707333.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.411+/-0.001  $\chi^2/\text{NDF}$ : 462.6/2

1.415+/-0.001  $\chi^2/\text{NDF}$ : 707333.9/4

# asym\_bcm0l02\_mean vs slug



Right In: 5.285+/-236.656  $\chi^2/\text{NDF}$ : 8.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

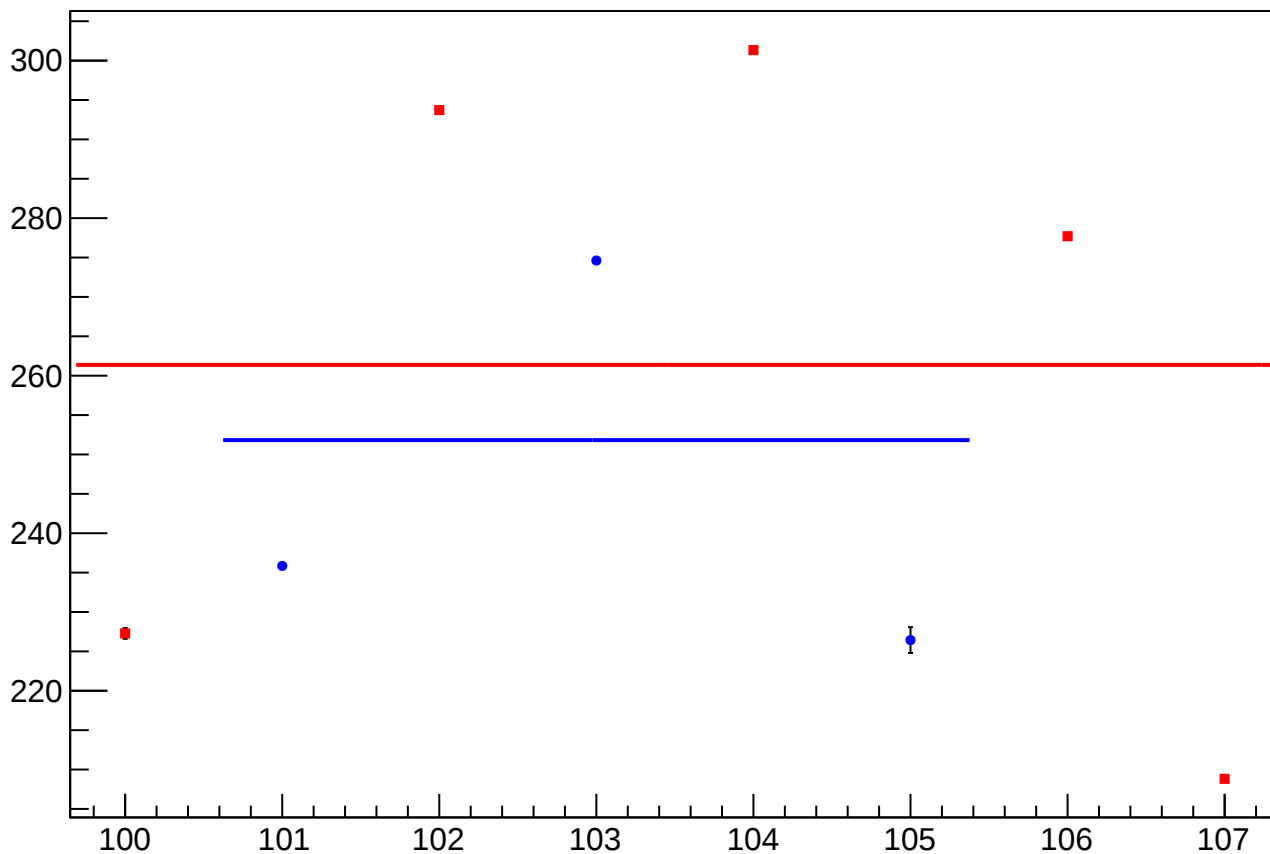
Right Out: -461.829+/-203.816  $\chi^2/\text{NDF}$ : 21.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.285+/-236.656  $\chi^2/\text{NDF}$ : 8.8/2

-461.829+/-203.816  $\chi^2/\text{NDF}$ : 21.7/4

# asym\_bcm0l02\_rms vs slug



Right In: 251.822 $\pm$ 0.167  $\chi^2$ /NDF: 13172.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

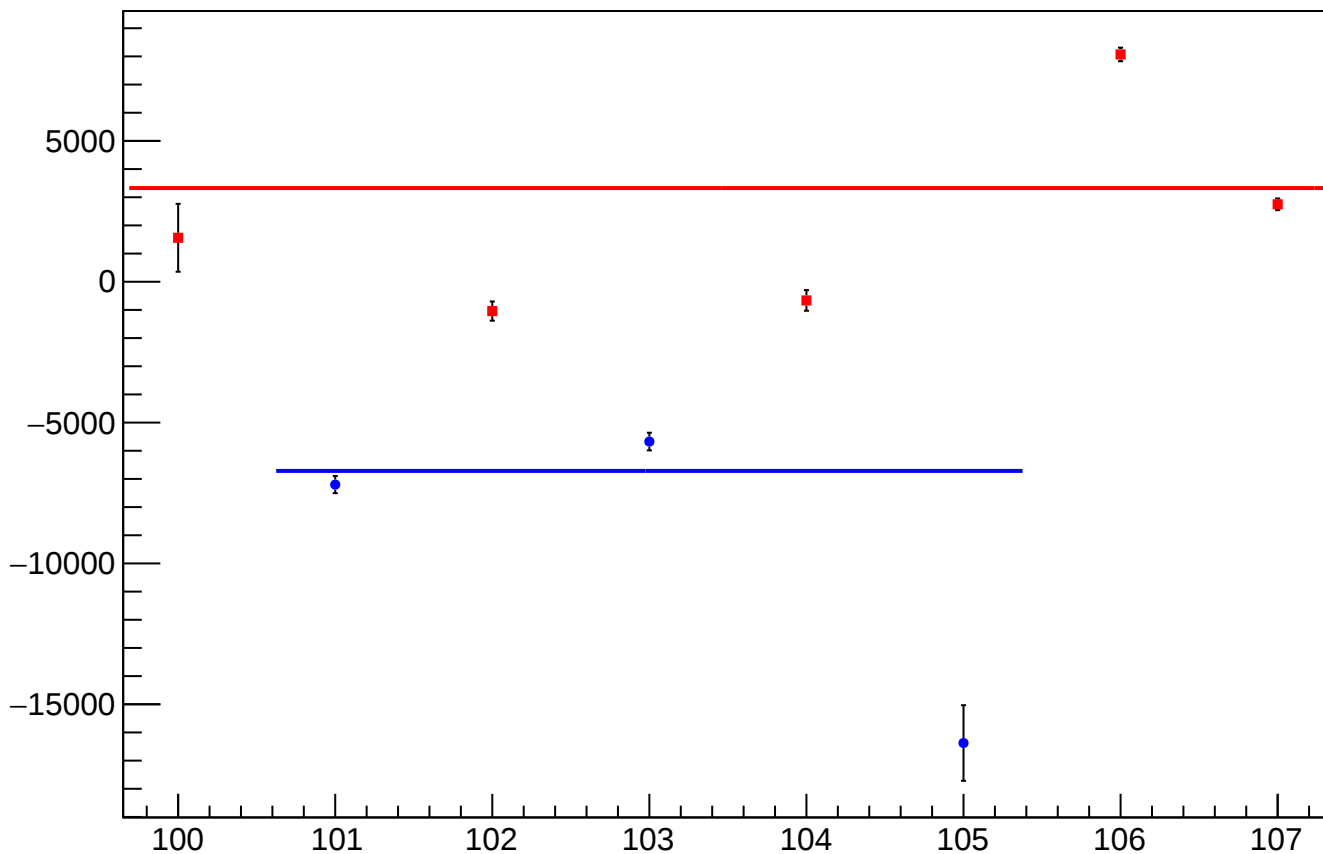
Right Out: 261.371 $\pm$ 0.144  $\chi^2$ /NDF: 78793.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

251.822 $\pm$ 0.167  $\chi^2$ /NDF: 13172.3/2

261.371 $\pm$ 0.144  $\chi^2$ /NDF: 78793.3/4

# asym\_bpm2i01WS\_mean vs slug



Right In: -6715.016 $\pm$ 215.377  $\chi^2$ /NDF: 65.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

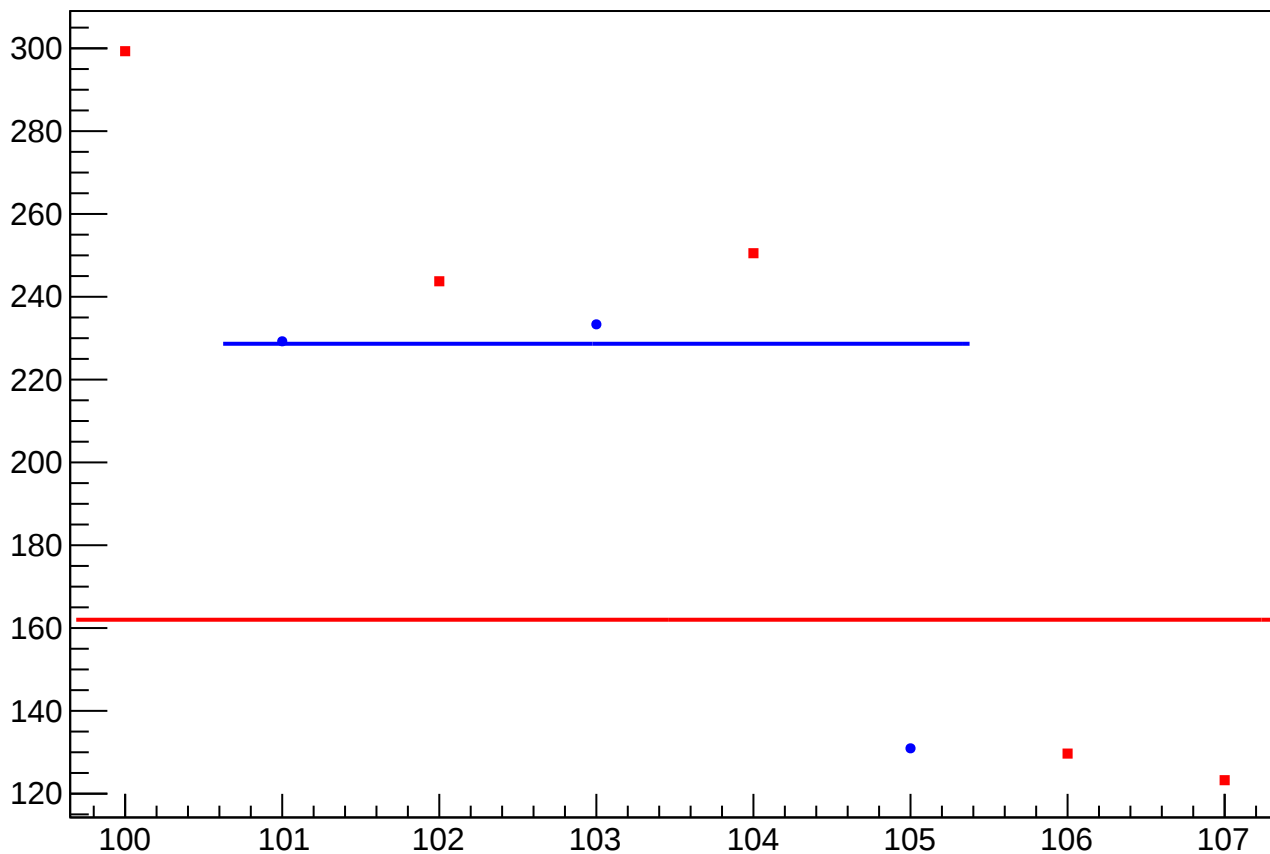
Right Out: 3325.654 $\pm$ 132.246  $\chi^2$ /NDF: 680.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-6715.016 $\pm$ 215.377  $\chi^2$ /NDF: 65.5/2

3325.654 $\pm$ 132.246  $\chi^2$ /NDF: 680.4/4

# asym\_bpm2i01WS\_rms vs slug



Right In: 228.653+/-0.152  $\chi^2/\text{NDF}$ : 11059.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

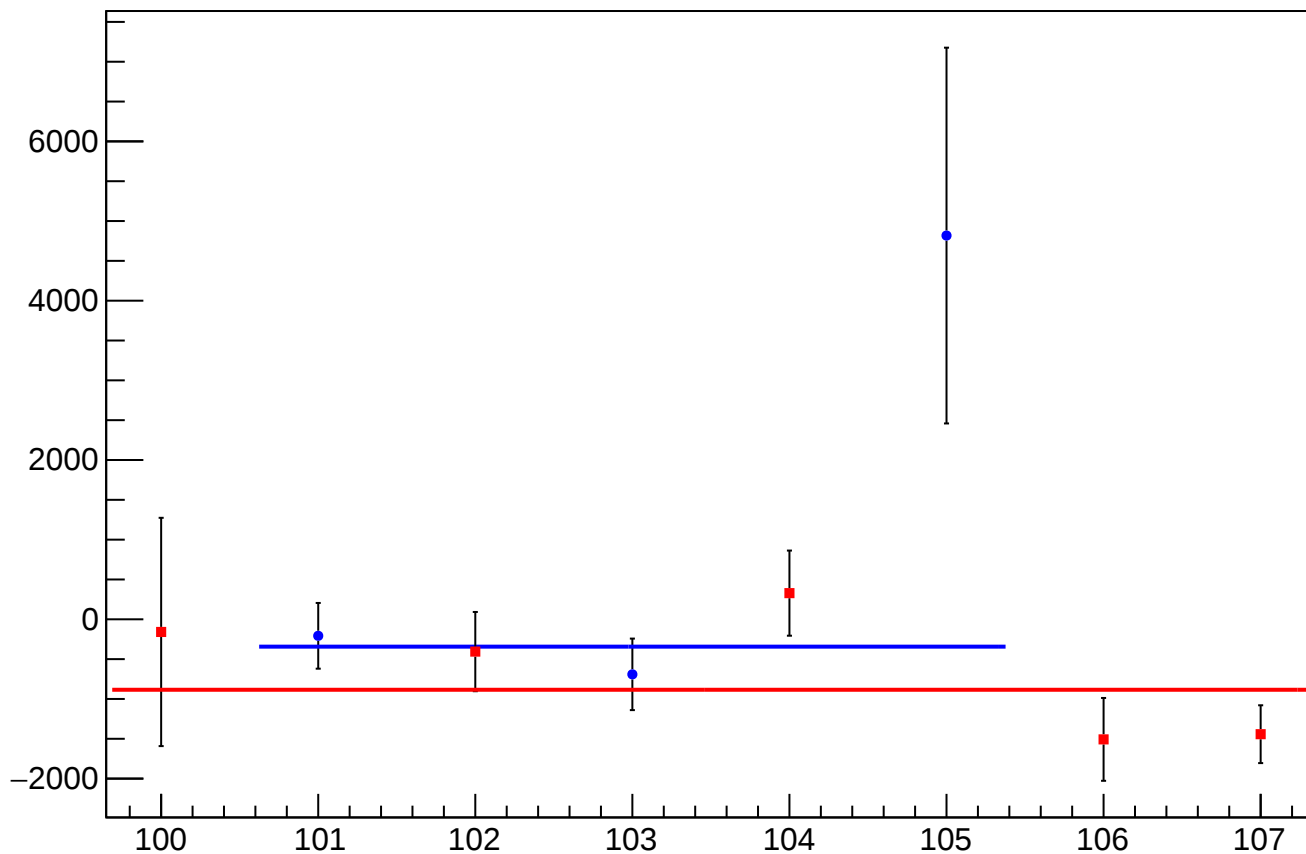
228.653+/-0.152  $\chi^2/\text{NDF}$ : 11059.9/2

Right Out: 162.007+/-0.094  $\chi^2/\text{NDF}$ : 363237.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

162.007+/-0.094  $\chi^2/\text{NDF}$ : 363237.8/4

# asym\_bpm0i07WS\_mean vs slug



Right In: -343.239+/-301.298  $\chi^2/\text{NDF}$ : 5.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

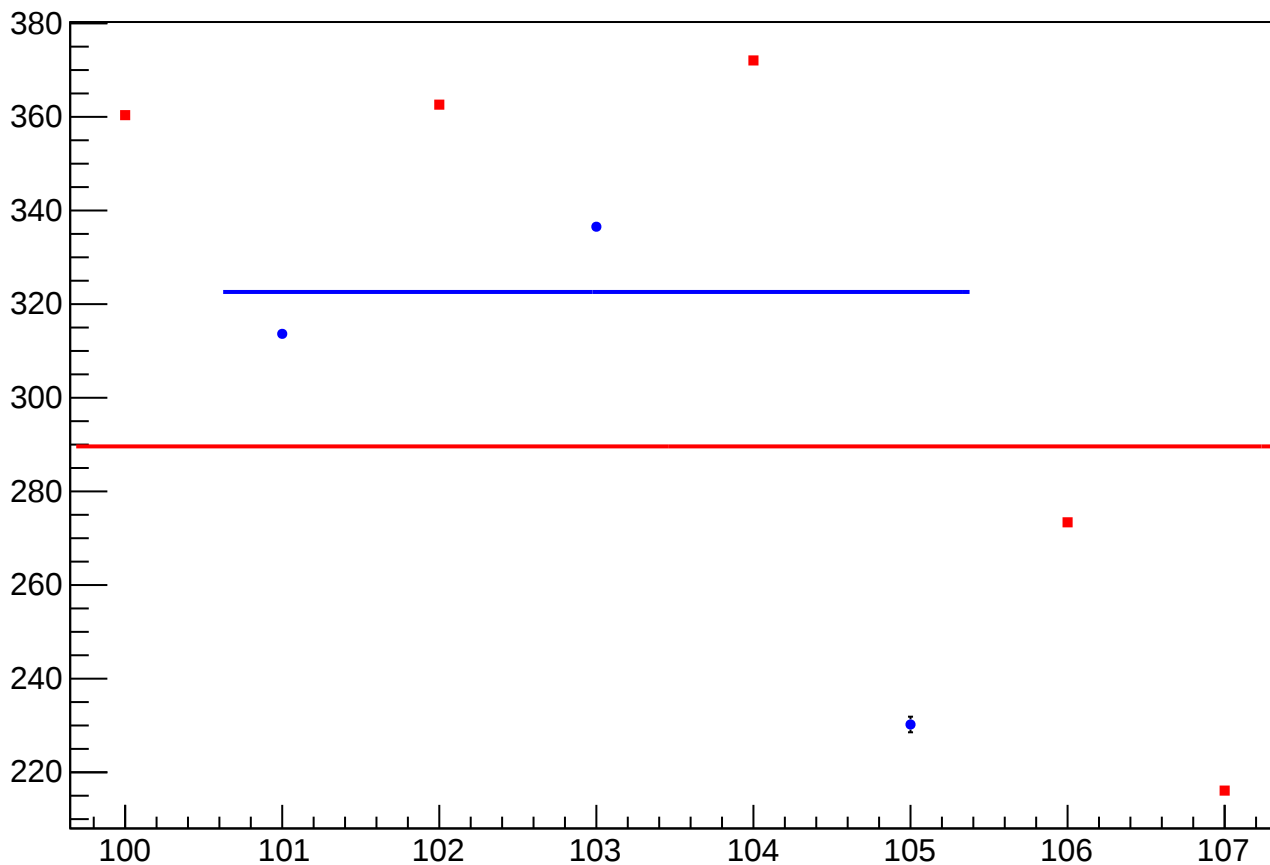
Right Out: -884.614+/-227.510  $\chi^2/\text{NDF}$ : 10.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-343.239+/-301.298  $\chi^2/\text{NDF}$ : 5.5/2

-884.614+/-227.510  $\chi^2/\text{NDF}$ : 10.1/4

# asym\_bpm0i07WS\_rms vs slug



Right In: 322.600 $\pm$ 0.213  $\chi^2$ /NDF: 5935.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

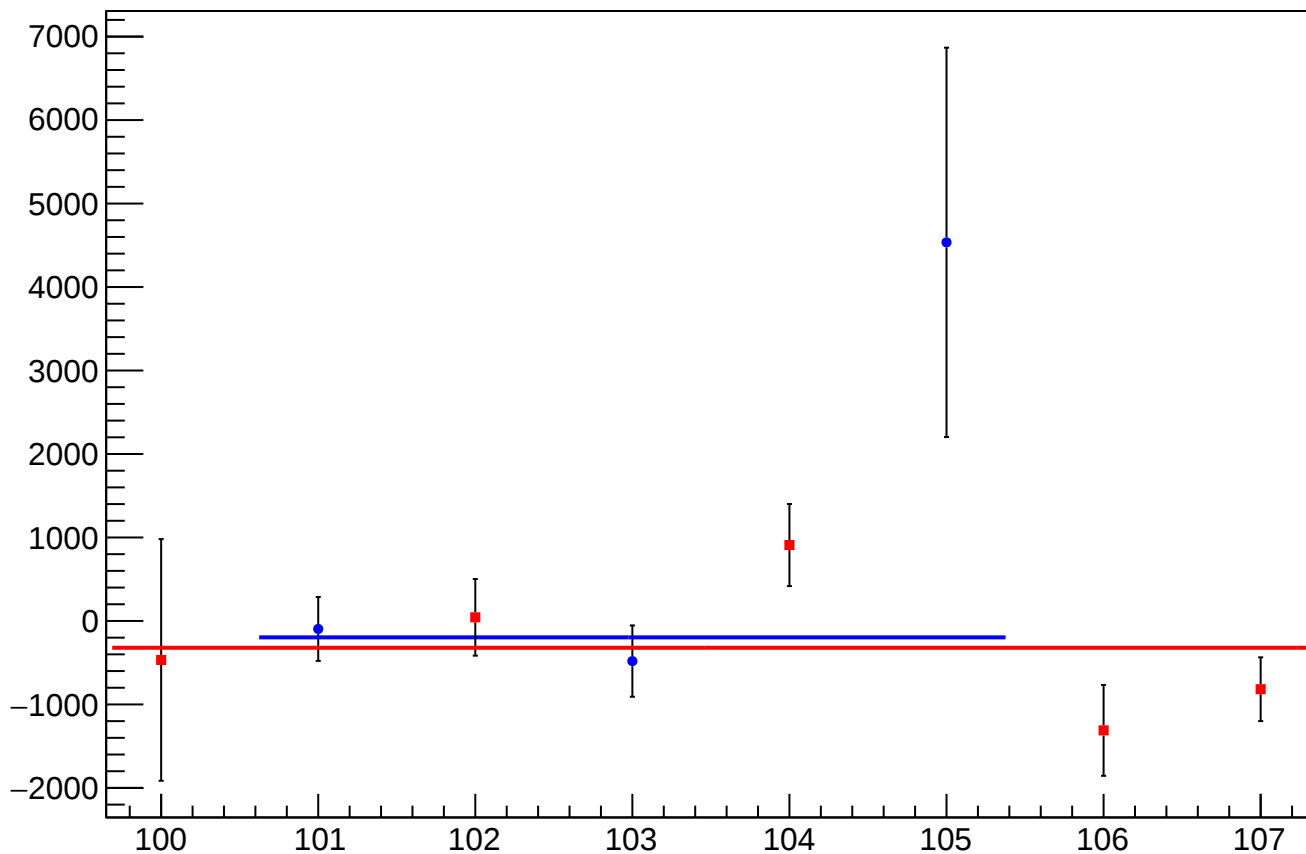
Right Out: 289.612 $\pm$ 0.161  $\chi^2$ /NDF: 179546.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

322.600 $\pm$ 0.213  $\chi^2$ /NDF: 5935.4/2

289.612 $\pm$ 0.161  $\chi^2$ /NDF: 179546.6/4

# asym\_bpm0l01WS\_mean vs slug



Right In: -196.565+/-282.758  $\chi^2$ /NDF: 4.6/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

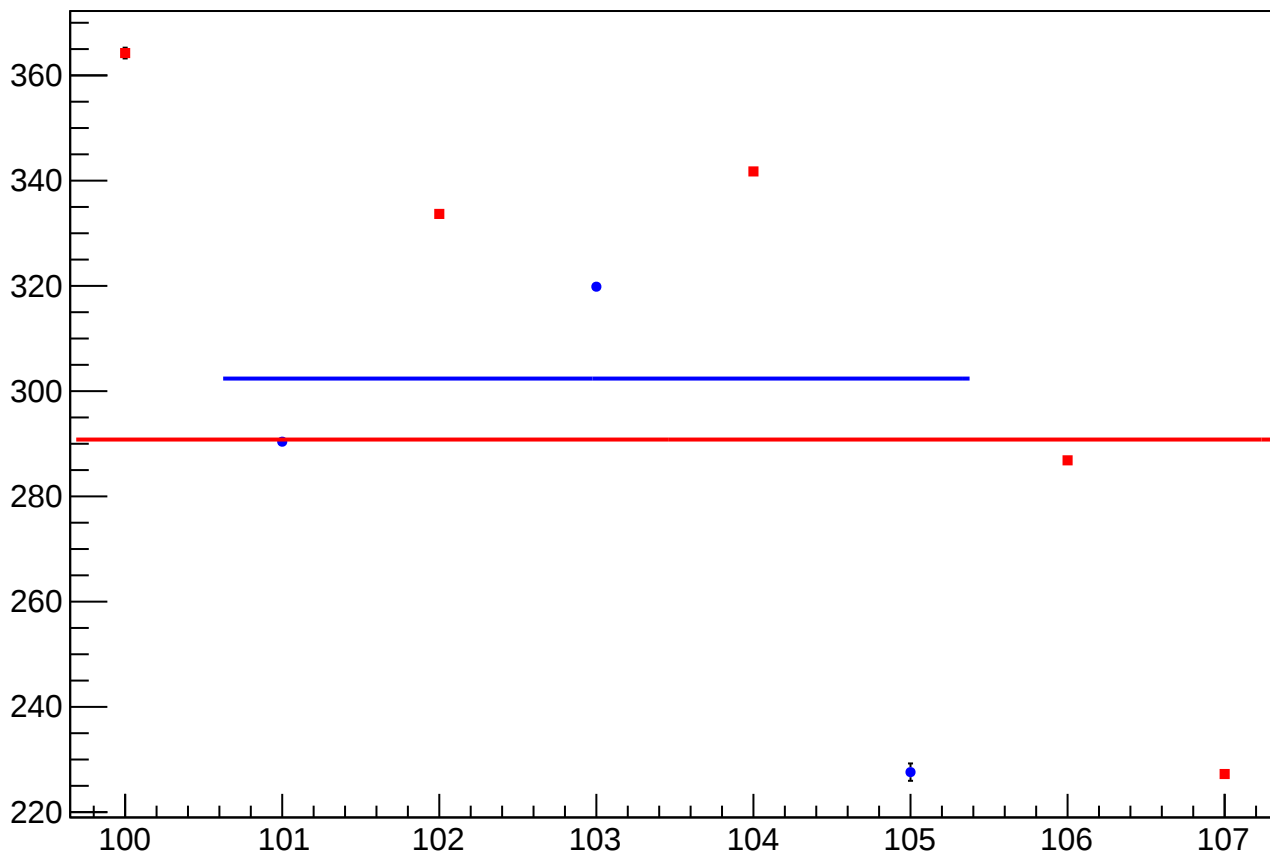
Right Out: -321.038+/-225.929  $\chi^2$ /NDF: 11.9/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-196.565+/-282.758  $\chi^2$ /NDF: 4.6/2

-321.038+/-225.929  $\chi^2$ /NDF: 11.9/4

# asym\_bpm0l01WS\_rms vs slug



Right In: 302.390+/-0.200  $\chi^2/\text{NDF}$ : 7368.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

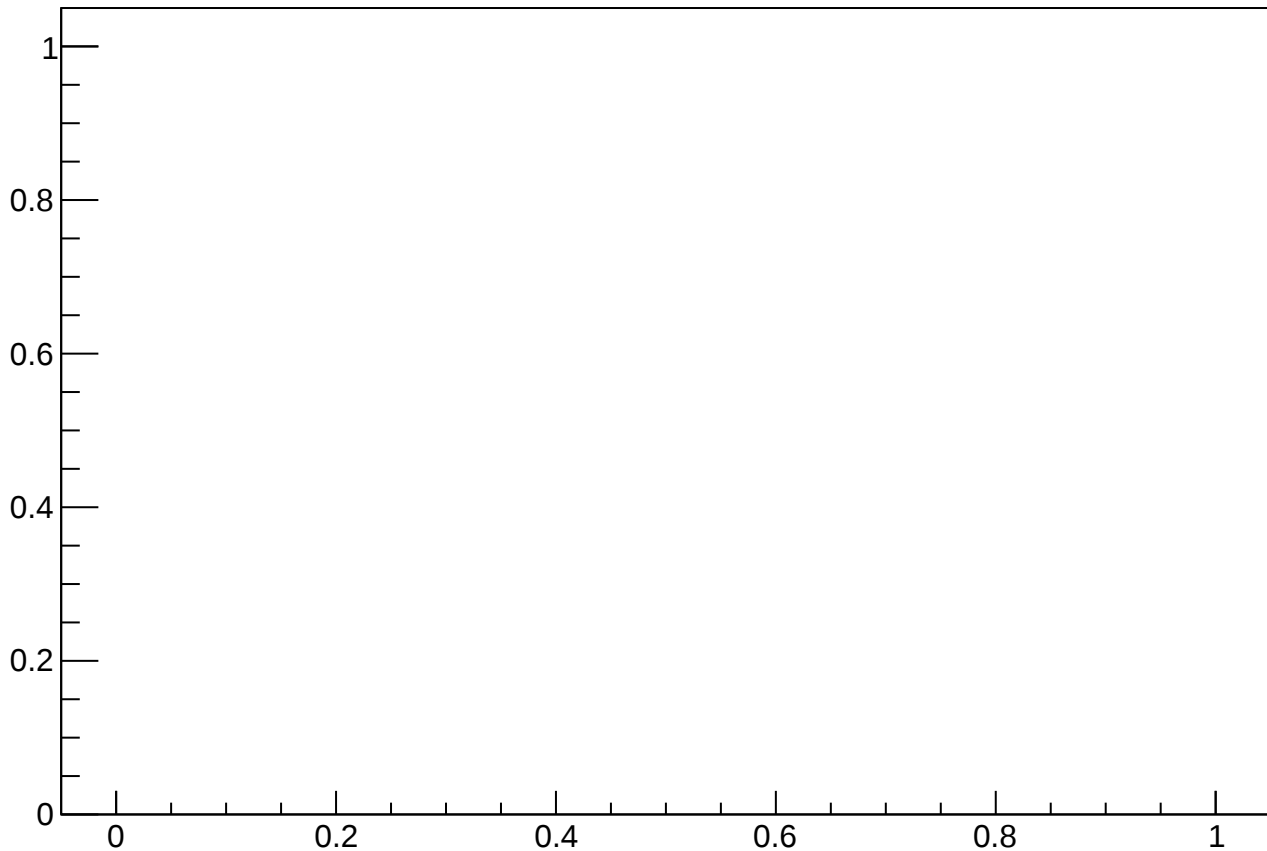
302.390+/-0.200  $\chi^2/\text{NDF}$ : 7368.4/2

Right Out: 290.803+/-0.160  $\chi^2/\text{NDF}$ : 99563.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

290.803+/-0.160  $\chi^2/\text{NDF}$ : 99563.4/4

# bcm\_an\_us\_ds\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

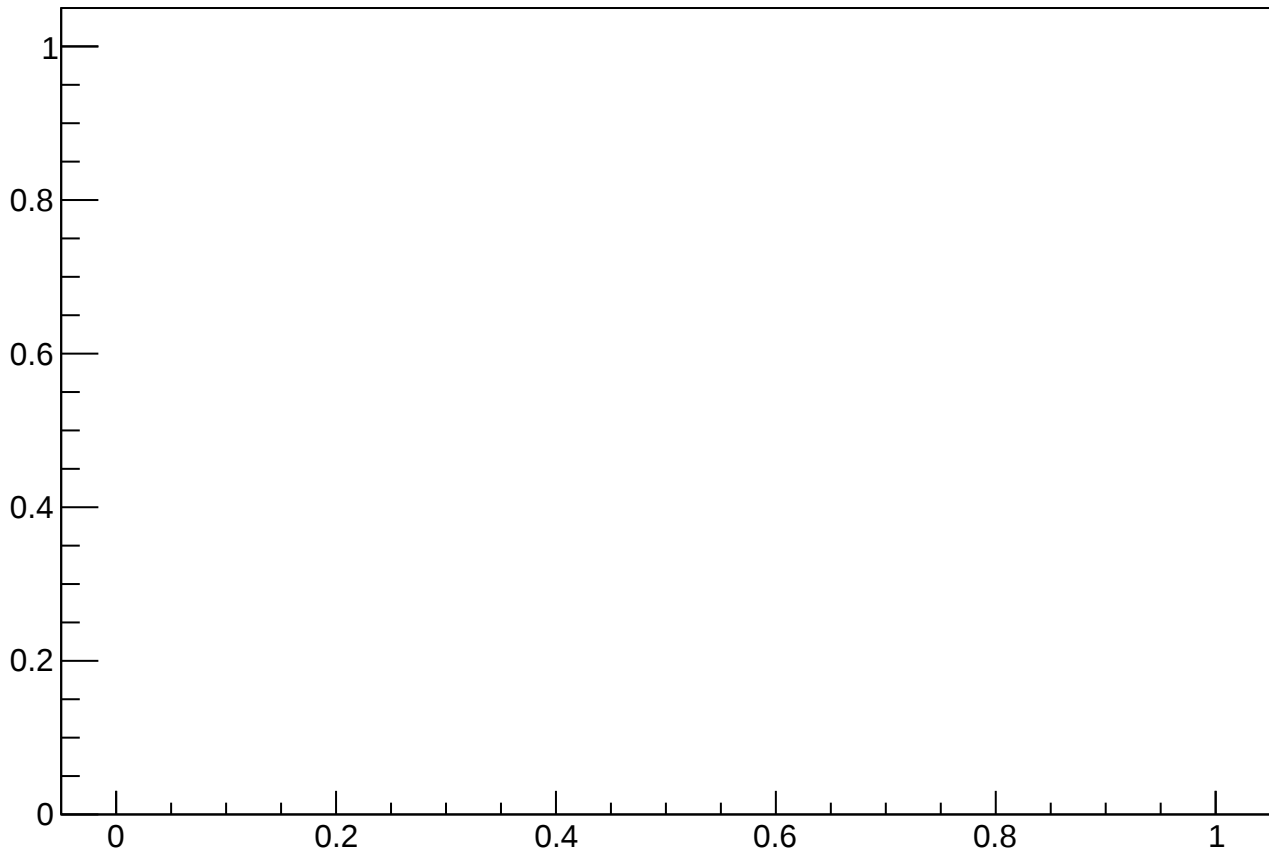
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_an\_us\_ds\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

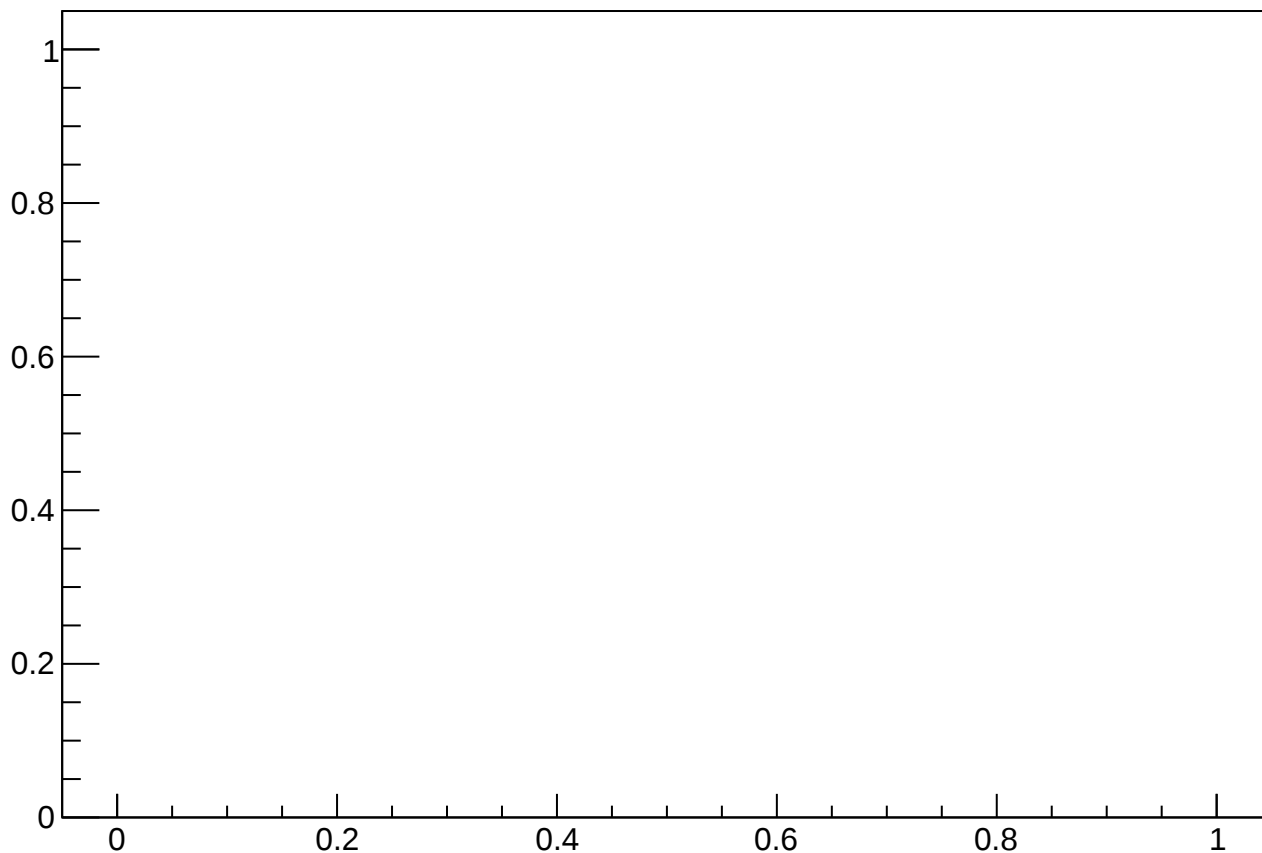
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_us\_dg\_ds\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

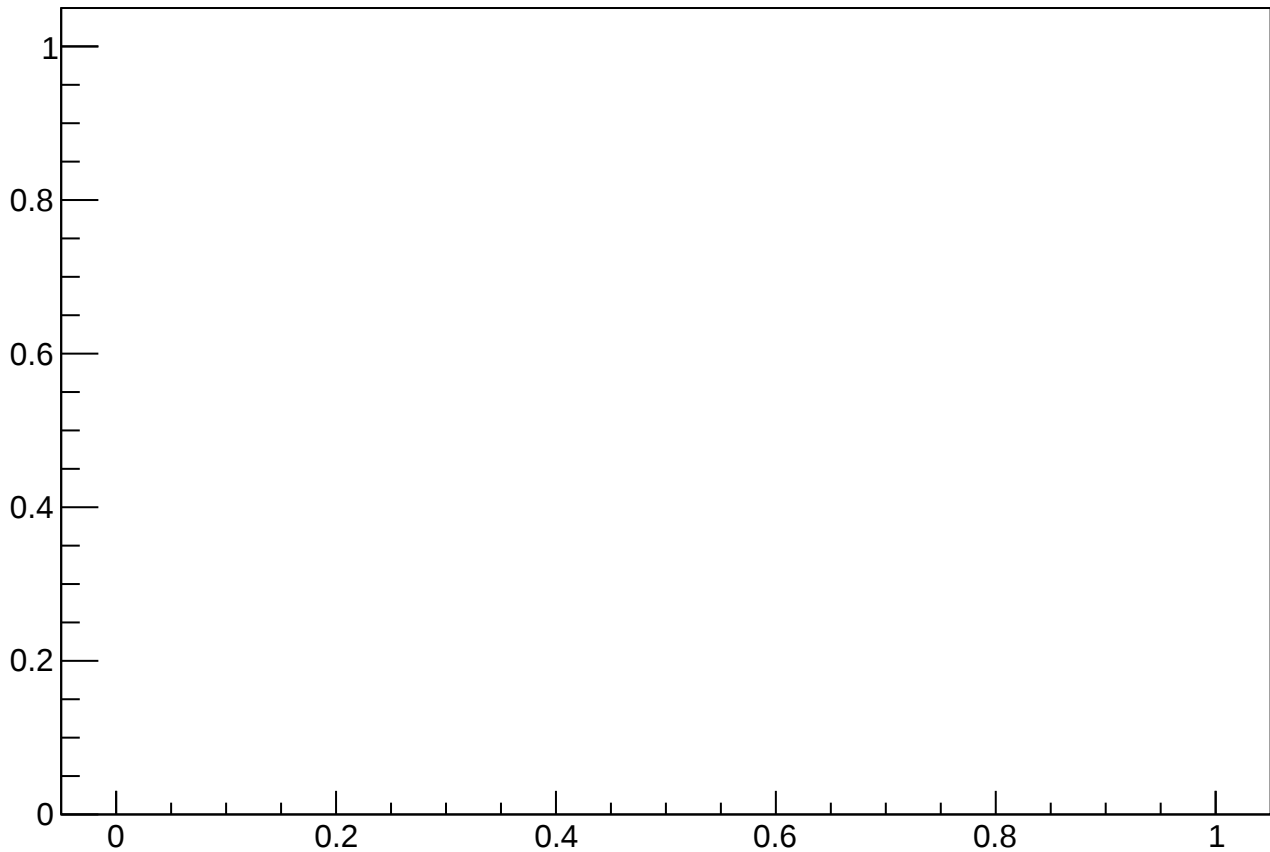
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_us\_dg\_ds\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

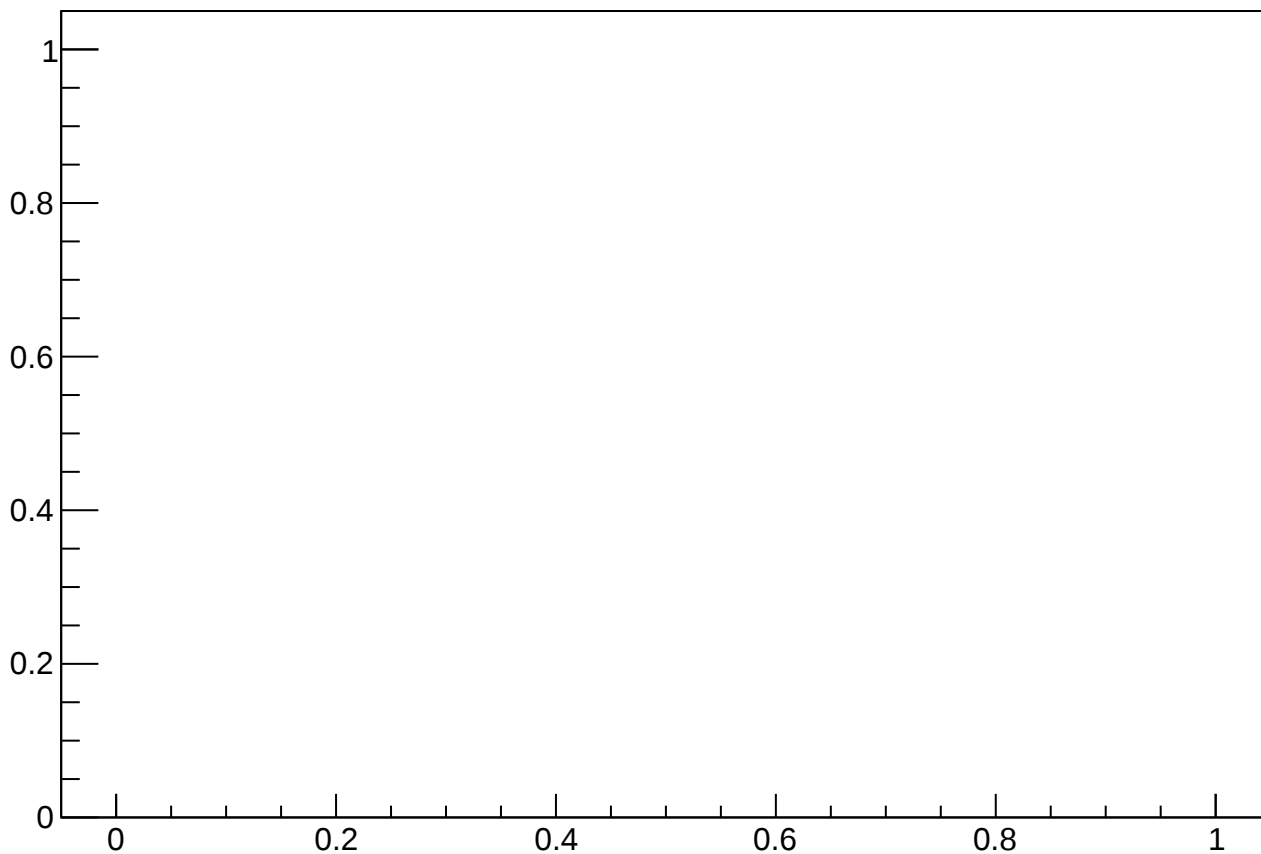
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_us\_ds\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

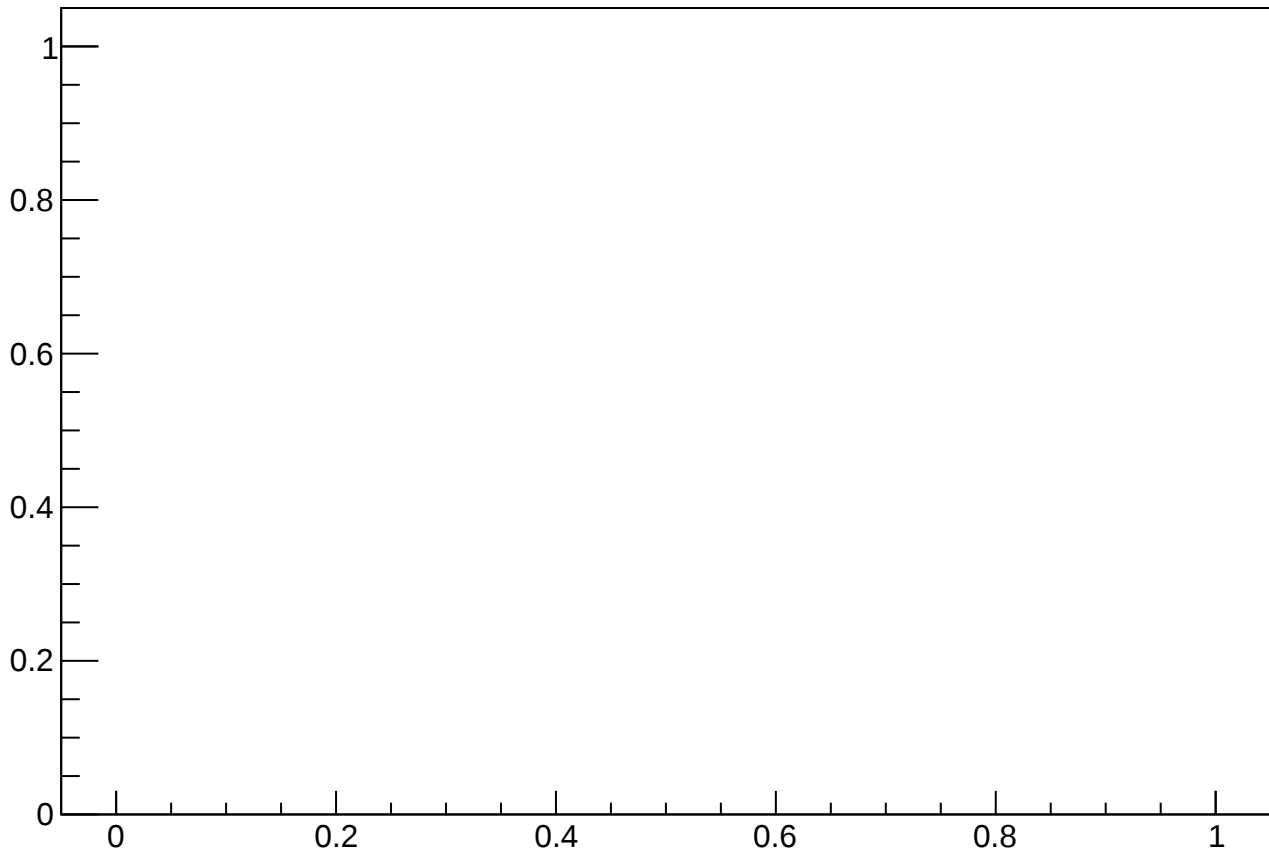
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_us\_ds\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

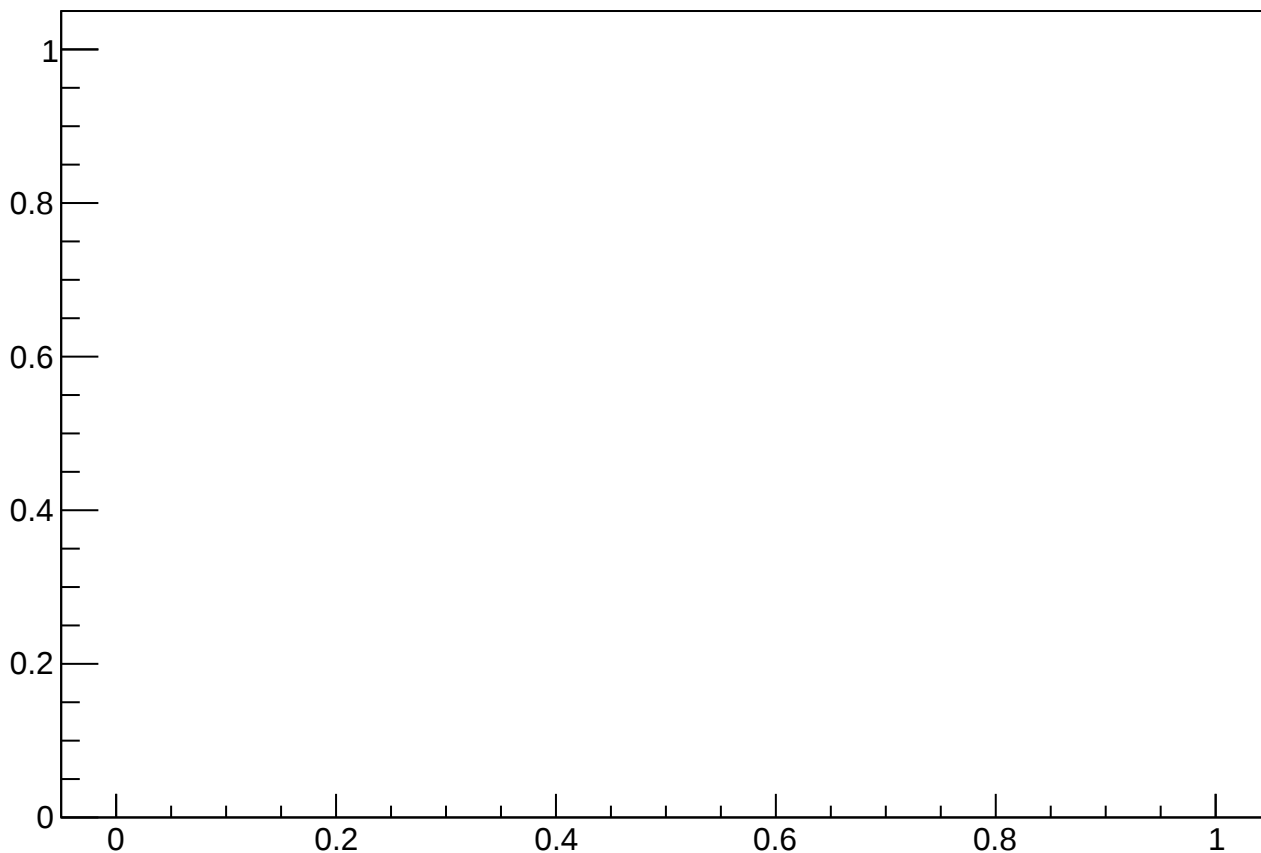
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_ds\_ds\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

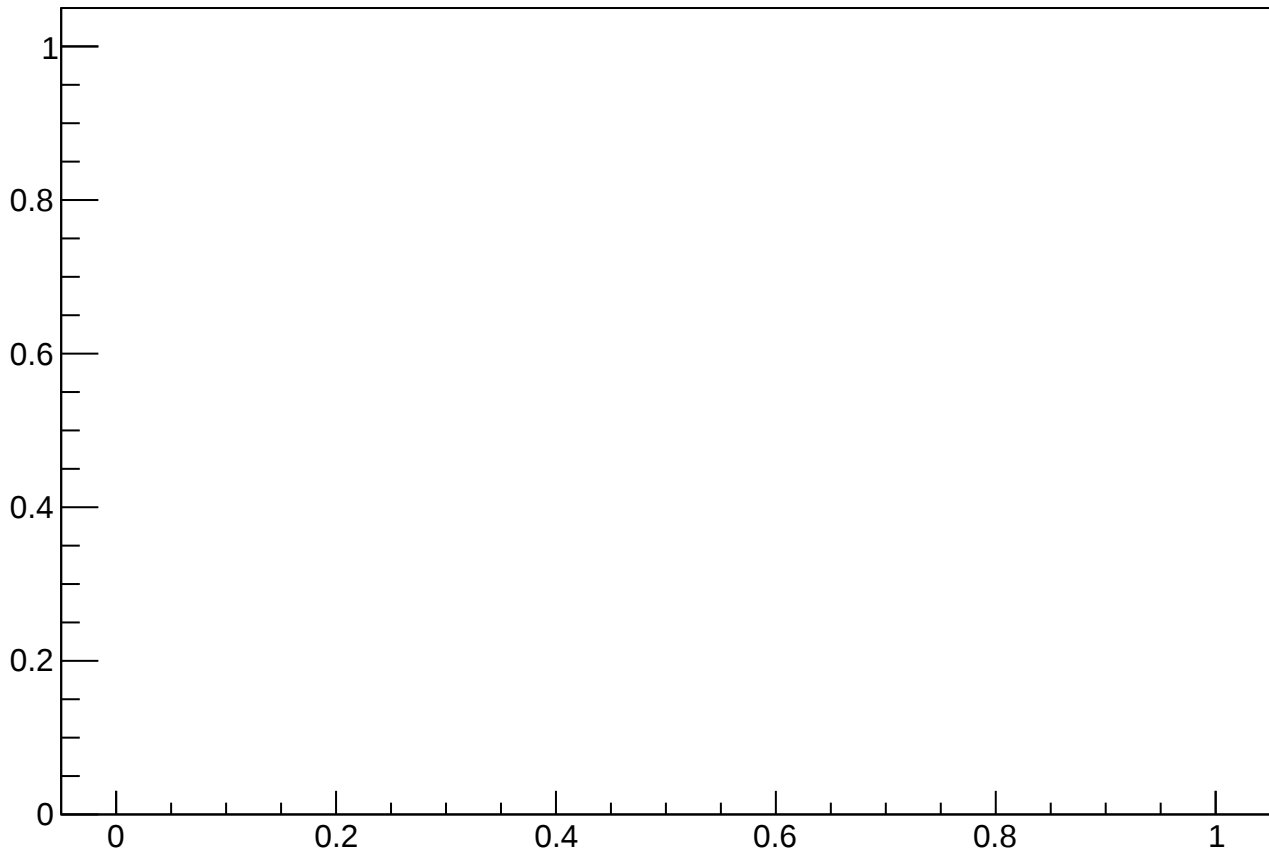
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# bcm\_dg\_ds\_ds\_dd\_rms vs slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

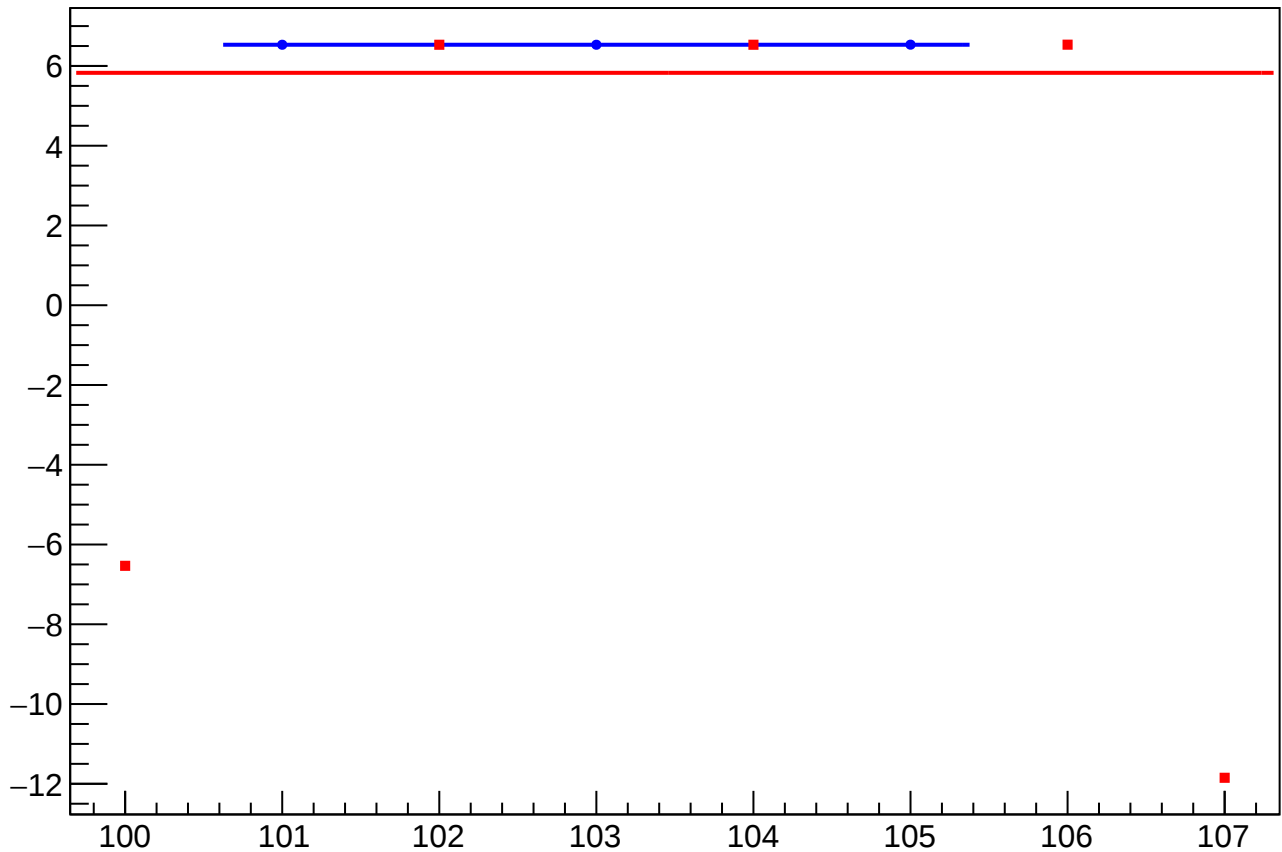
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

yield\_cav4bX\_mean vs slug



Right In: 6.532+/-0.000  $\chi^2/\text{NDF}$ : 2830696.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

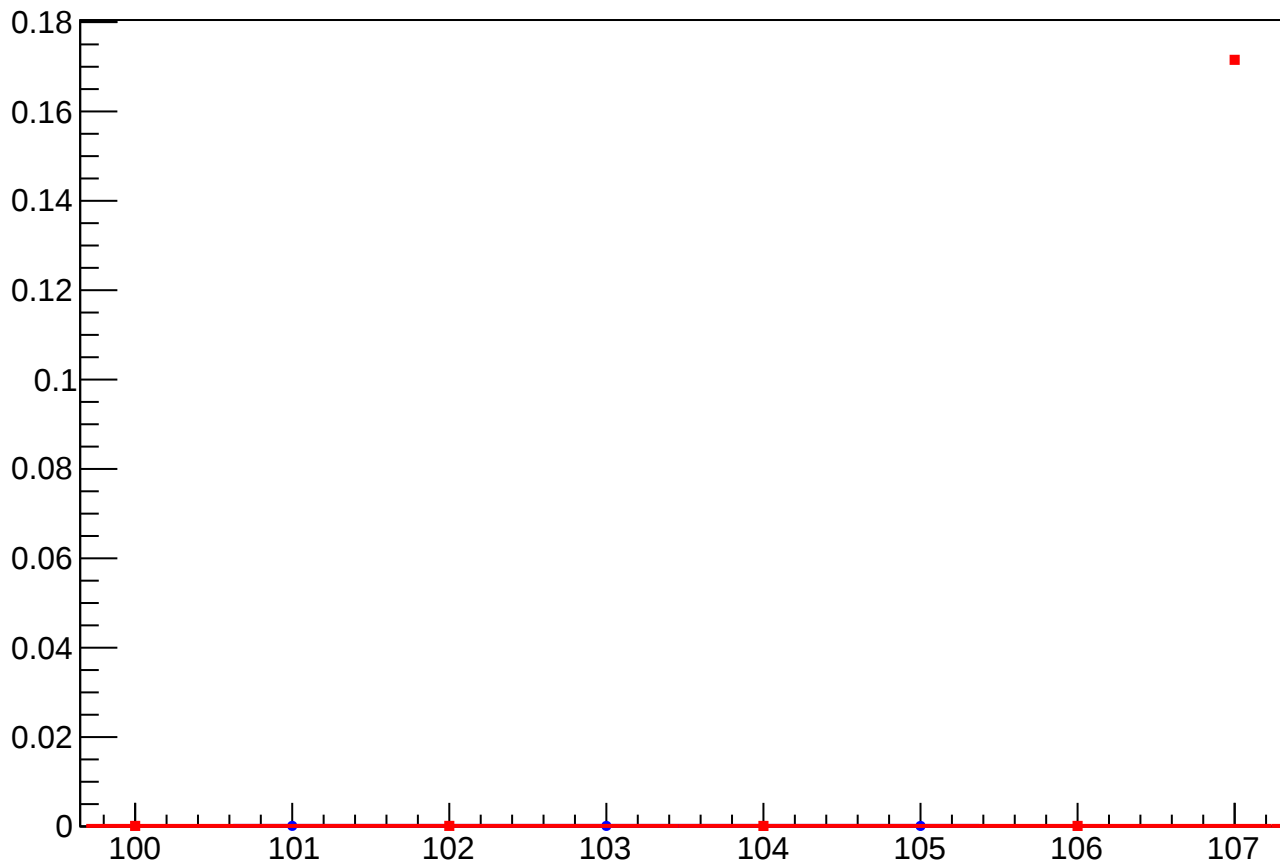
6.532+/-0.000  $\chi^2/\text{NDF}$ : 2830696.8/2

Right Out: 5.828+/-0.000  $\chi^2/\text{NDF}$ : 755852818588311.4/4

5.828+/-0.000  $\chi^2/\text{NDF}$ : 755852818588311.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_cav4bX\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3075.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

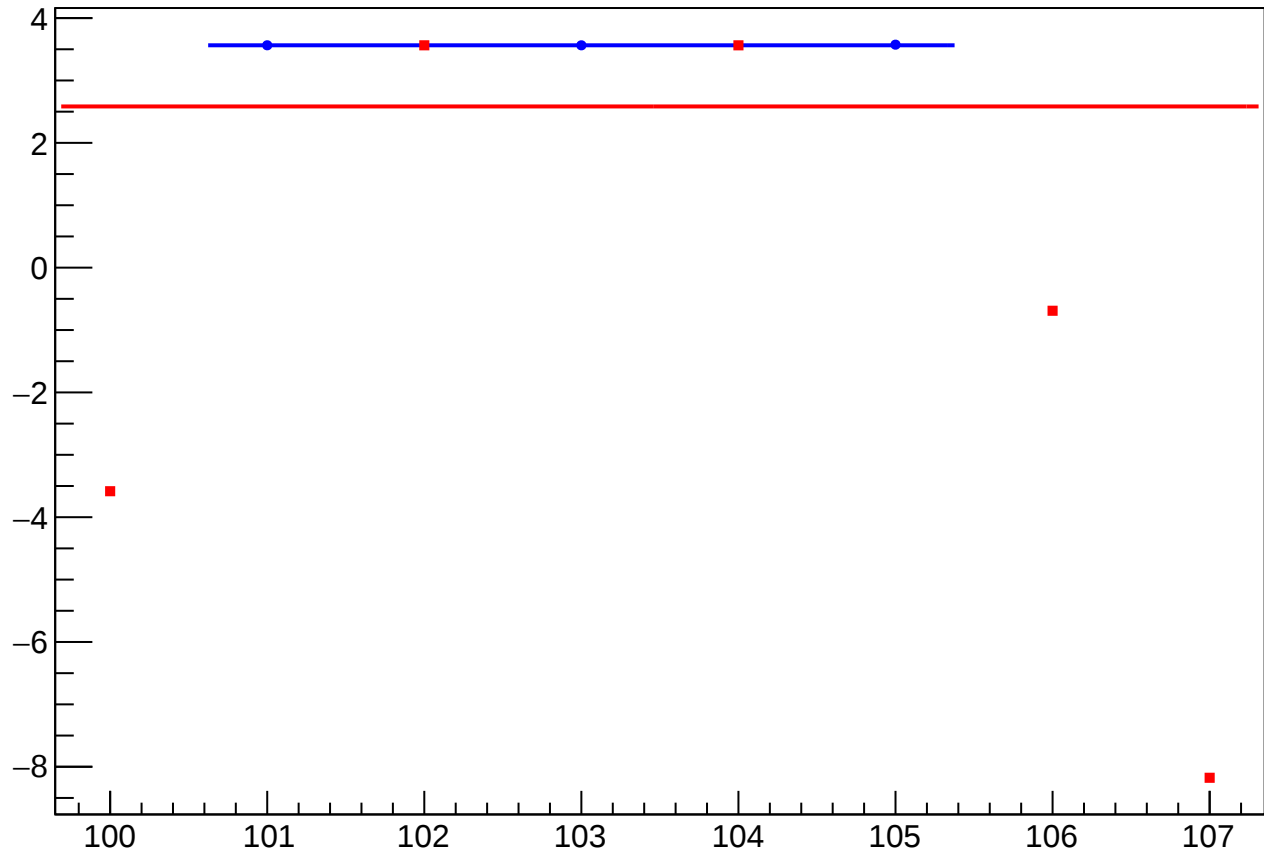
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 286410.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 3075.6/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 286410.5/4

yield\_cav4bY\_mean vs slug



Right In: 3.564+/-0.000  $\chi^2/\text{NDF}$ : 279813283.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

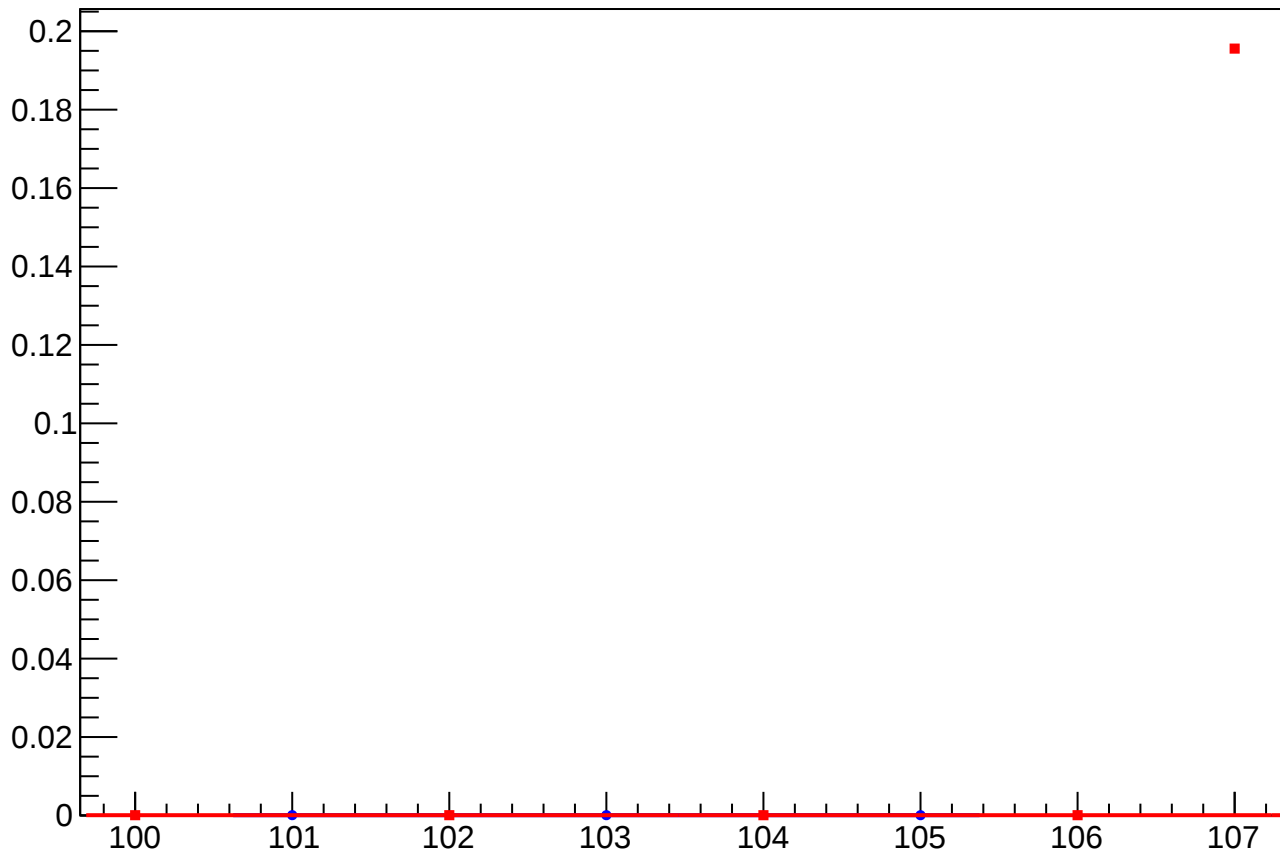
3.564+/-0.000  $\chi^2/\text{NDF}$ : 279813283.6/2

Right Out: 2.584+/-0.000  $\chi^2/\text{NDF}$ : 1253236582703270.2/4

2.584+/-0.000  $\chi^2/\text{NDF}$ : 1253236582703270.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_cav4bY\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2882.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

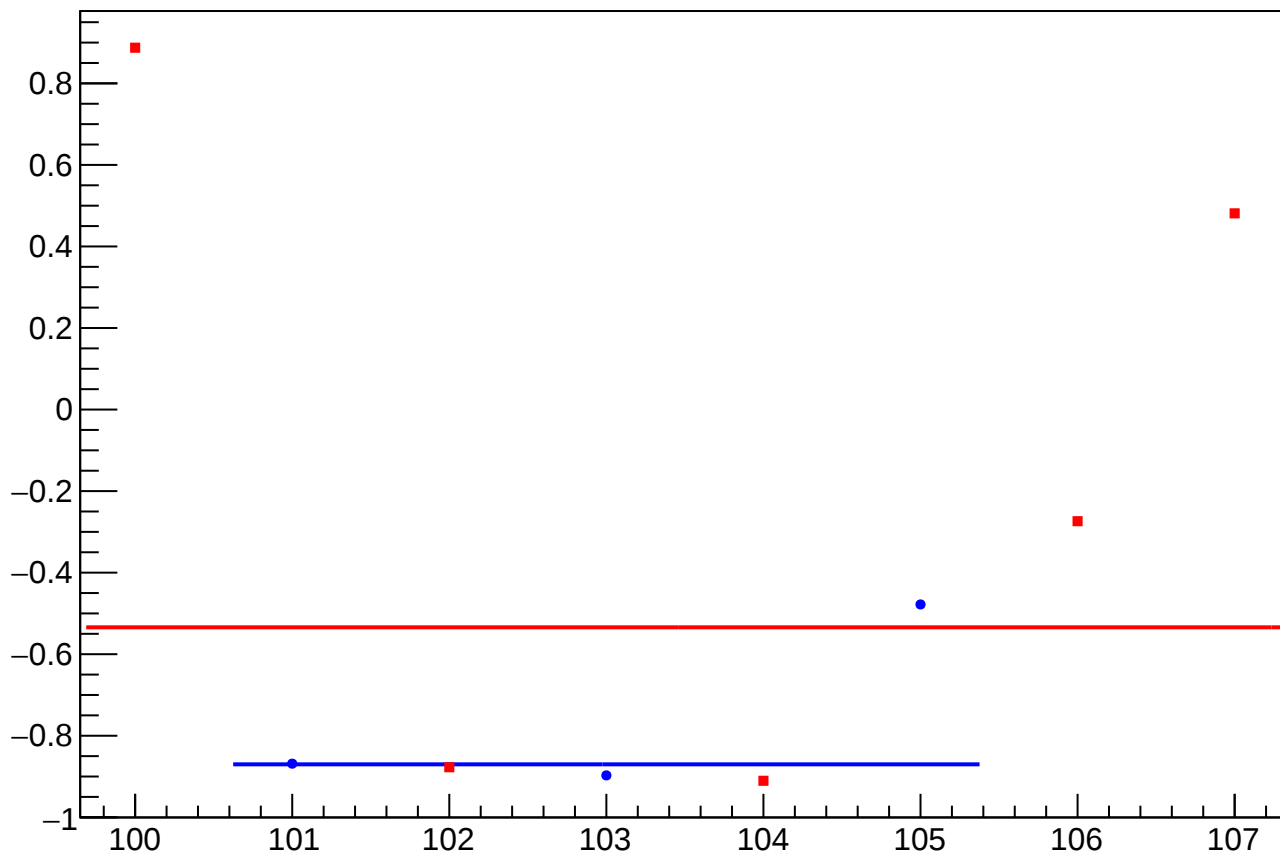
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 412337.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 2882.0/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 412337.0/4

# yield\_cav4cX\_mean vs slug



Right In: -0.870+/-0.000  $\chi^2/\text{NDF}$ : 3062636.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

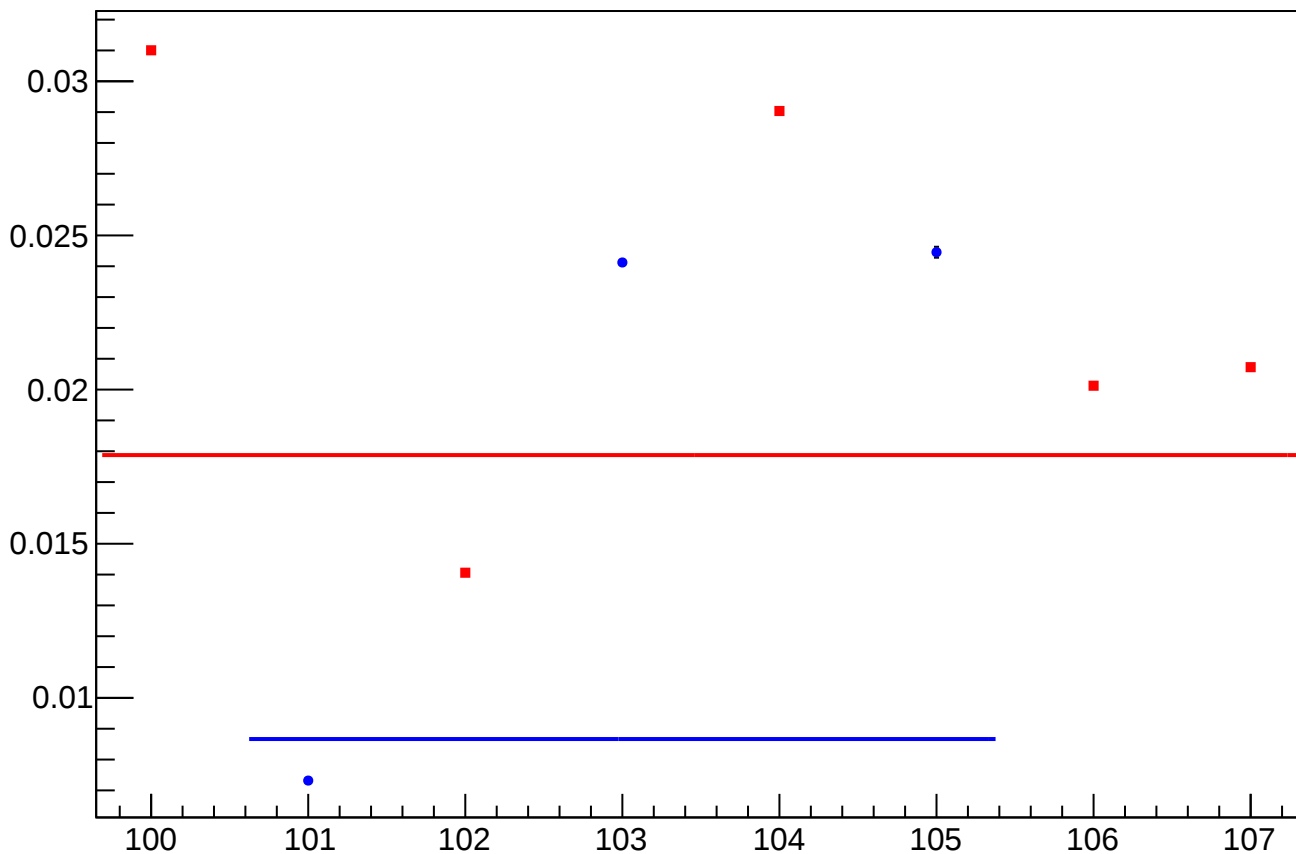
Right Out: -0.534+/-0.000  $\chi^2/\text{NDF}$ : 1391523707.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.870+/-0.000  $\chi^2/\text{NDF}$ : 3062636.4/2

-0.534+/-0.000  $\chi^2/\text{NDF}$ : 1391523707.8/4

# yield\_cav4cX\_rms vs slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 424246.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

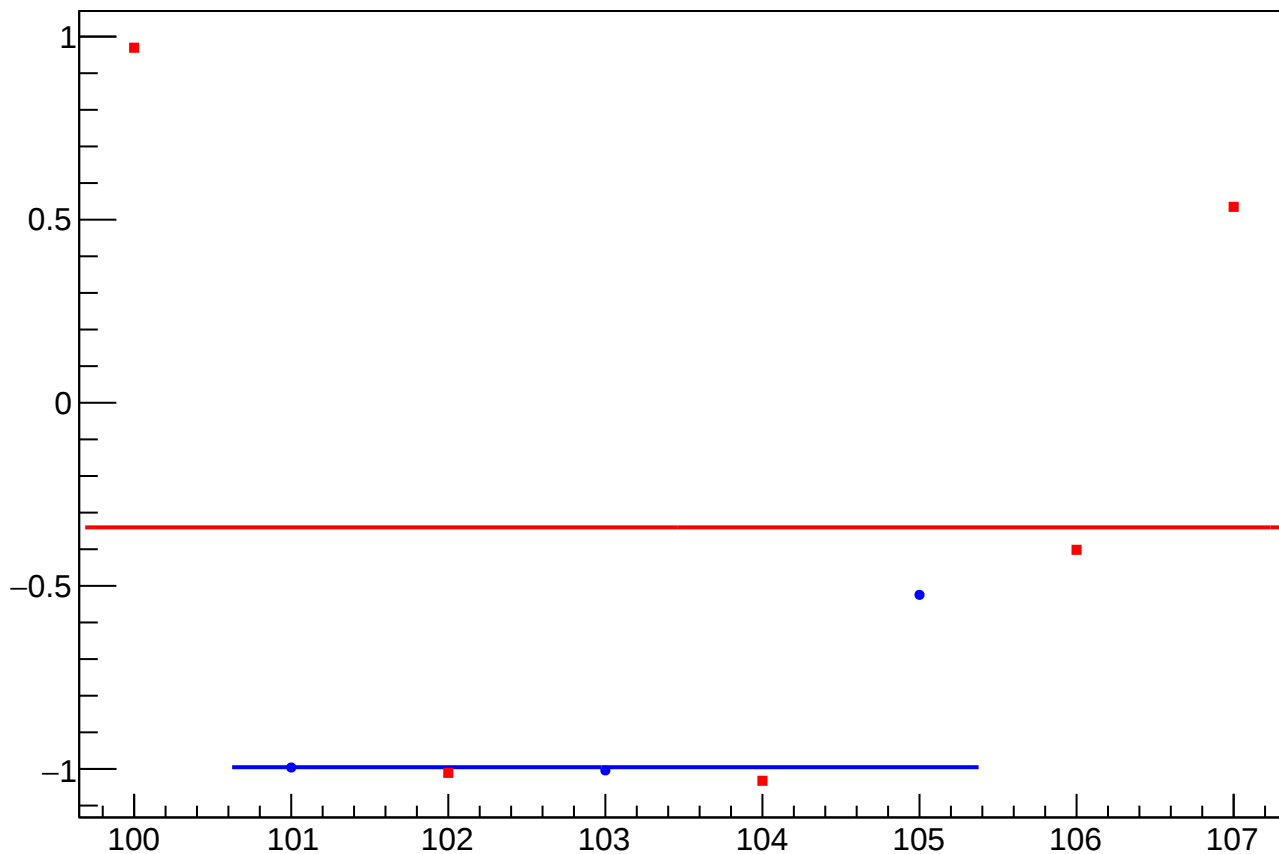
Right Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 239519.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.009+/-0.000  $\chi^2/\text{NDF}$ : 424246.3/2

0.018+/-0.000  $\chi^2/\text{NDF}$ : 239519.0/4

yield\_cav4cY\_mean vs slug



Right In:  $-0.995 \pm 0.000$   $\chi^2/\text{NDF}$ : 2419337.6/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

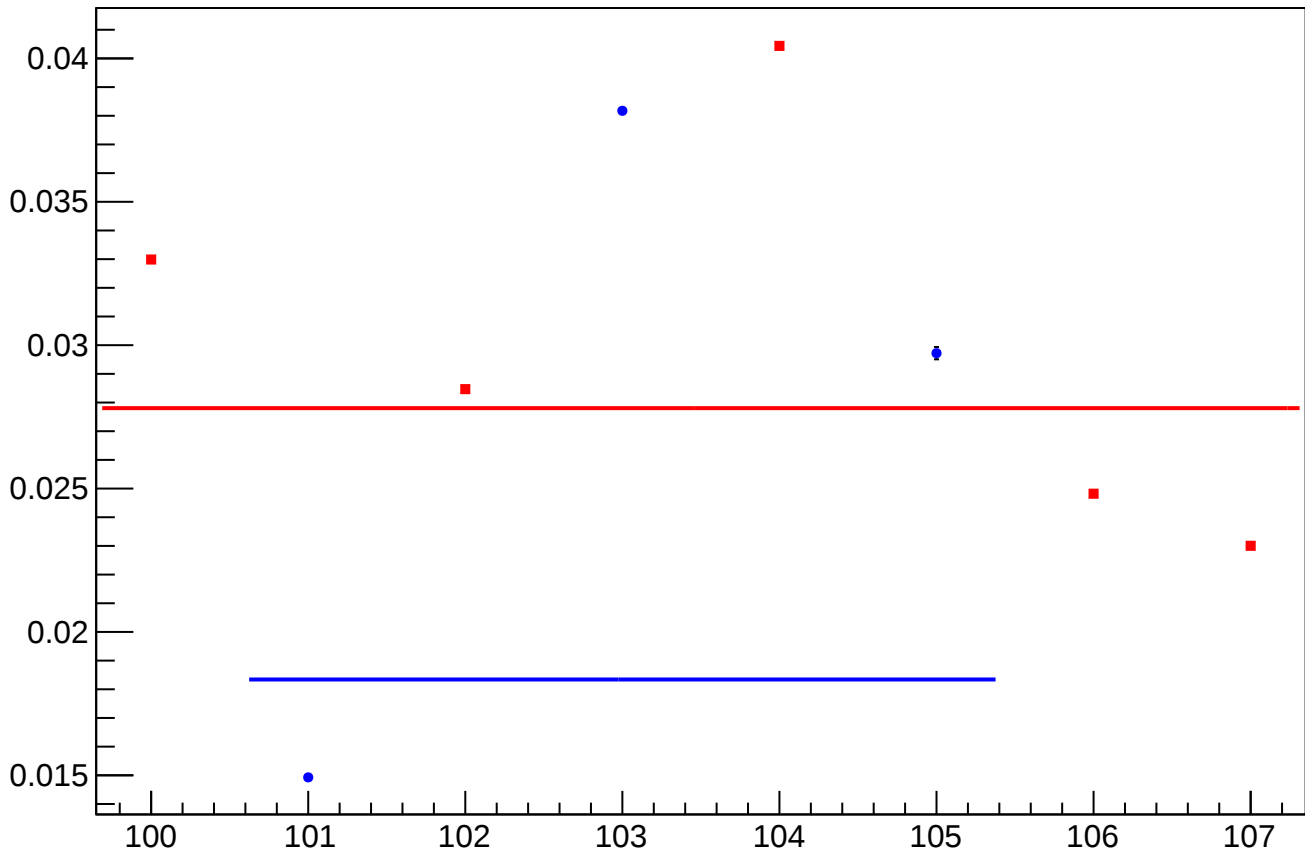
Right Out:  $-0.340 \pm 0.000$   $\chi^2/\text{NDF}$ : 993805975.4/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.995 \pm 0.000$   $\chi^2/\text{NDF}$ : 2419337.6/2

$-0.340 \pm 0.000$   $\chi^2/\text{NDF}$ : 993805975.4/4

# yield\_cav4cY\_rms vs slug



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 354034.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

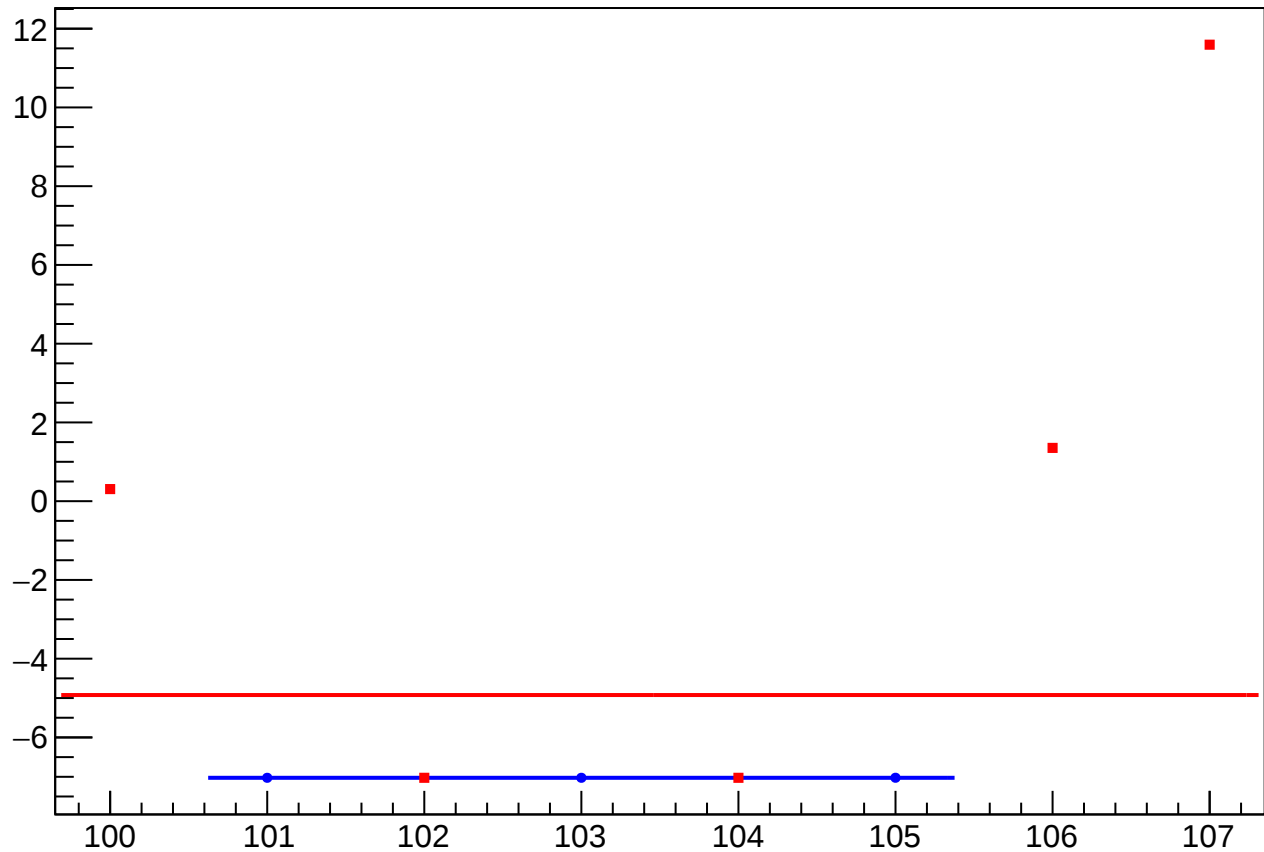
Right Out: 0.028+/-0.000  $\chi^2/\text{NDF}$ : 126488.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.018+/-0.000  $\chi^2/\text{NDF}$ : 354034.0/2

0.028+/-0.000  $\chi^2/\text{NDF}$ : 126488.3/4

# yield\_cav4dX\_mean vs slug



Right In: -7.025+/-0.000  $\chi^2/\text{NDF}$ : 317000.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

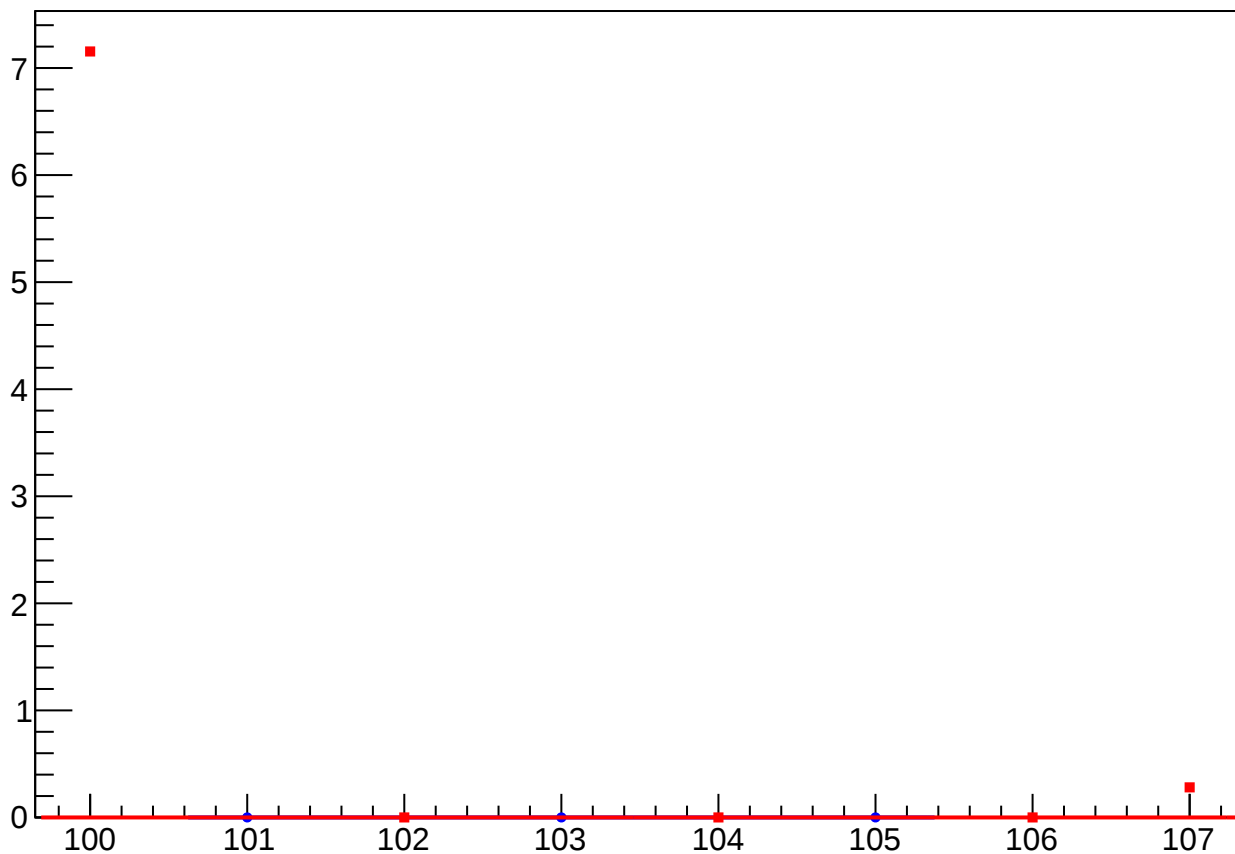
-7.025+/-0.000  $\chi^2/\text{NDF}$ : 317000.3/2

Right Out: -4.923+/-0.000  $\chi^2/\text{NDF}$ : 364071537095508.6/4

-4.923+/-0.000  $\chi^2/\text{NDF}$ : 364071537095508.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dX\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 316.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

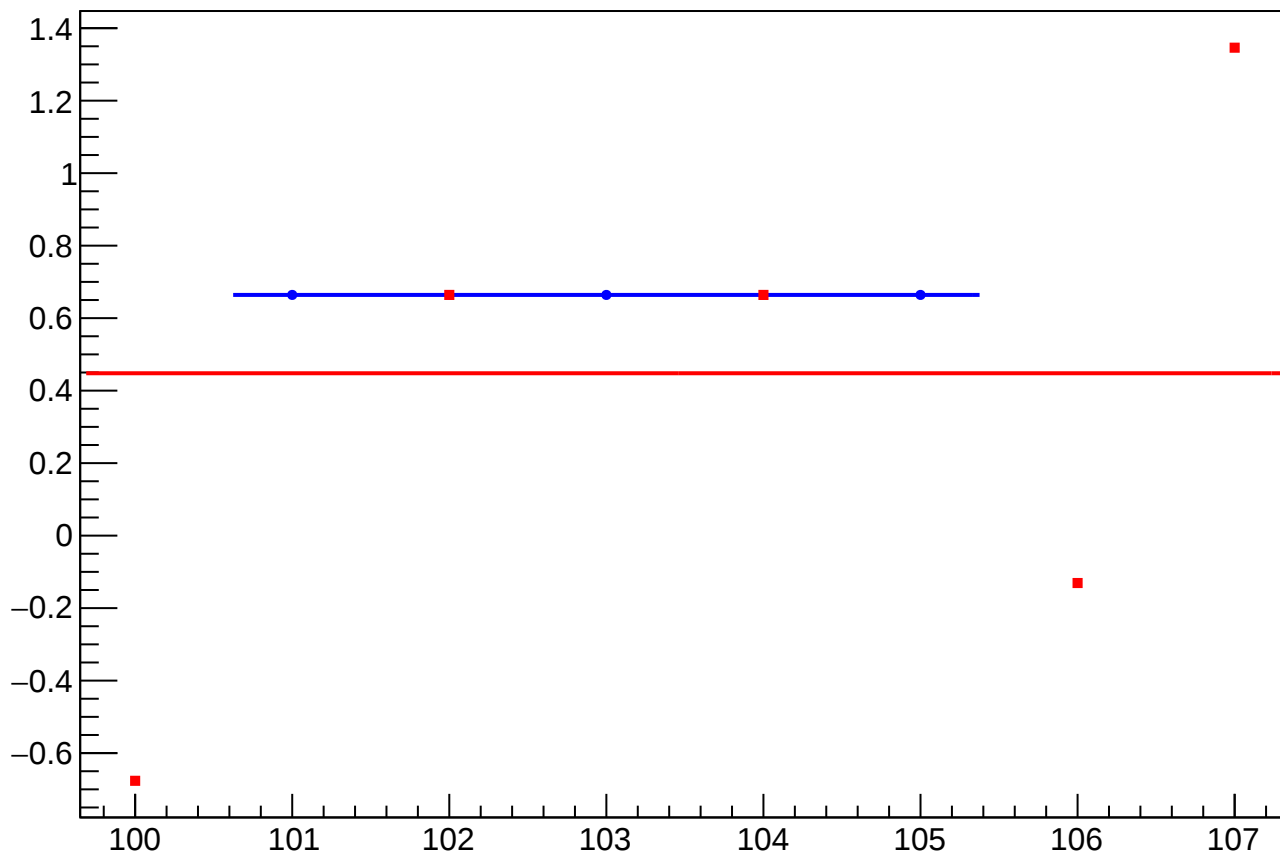
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 646750.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 316.9/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 646750.3/4

yield\_cav4dY\_mean vs slug



Right In: 0.664+/-0.000  $\chi^2/\text{NDF}$ : 173539.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

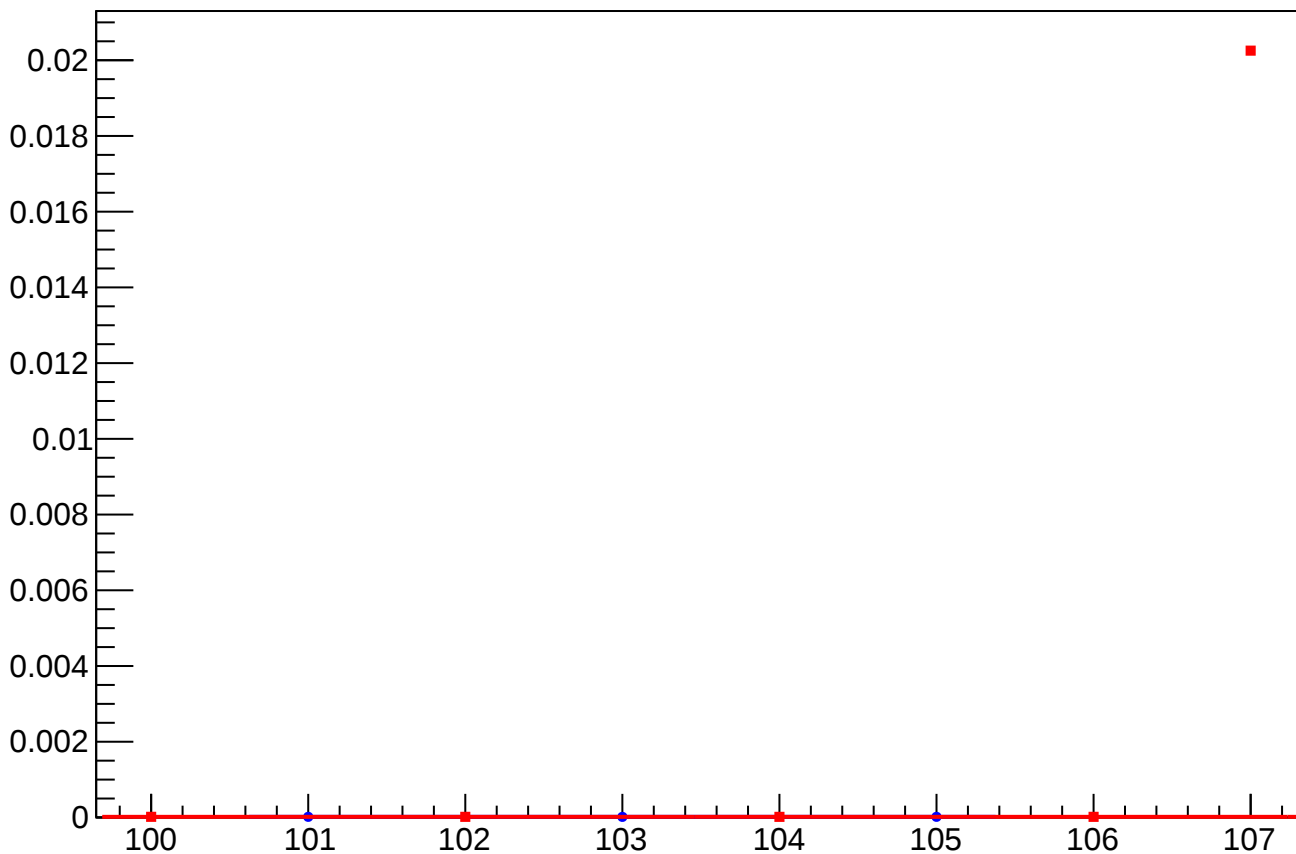
Right Out: 0.448+/-0.000  $\chi^2/\text{NDF}$ : 402866198397473.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.664+/-0.000  $\chi^2/\text{NDF}$ : 173539.8/2

0.448+/-0.000  $\chi^2/\text{NDF}$ : 402866198397473.2/4

yield\_cav4dY\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 794.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

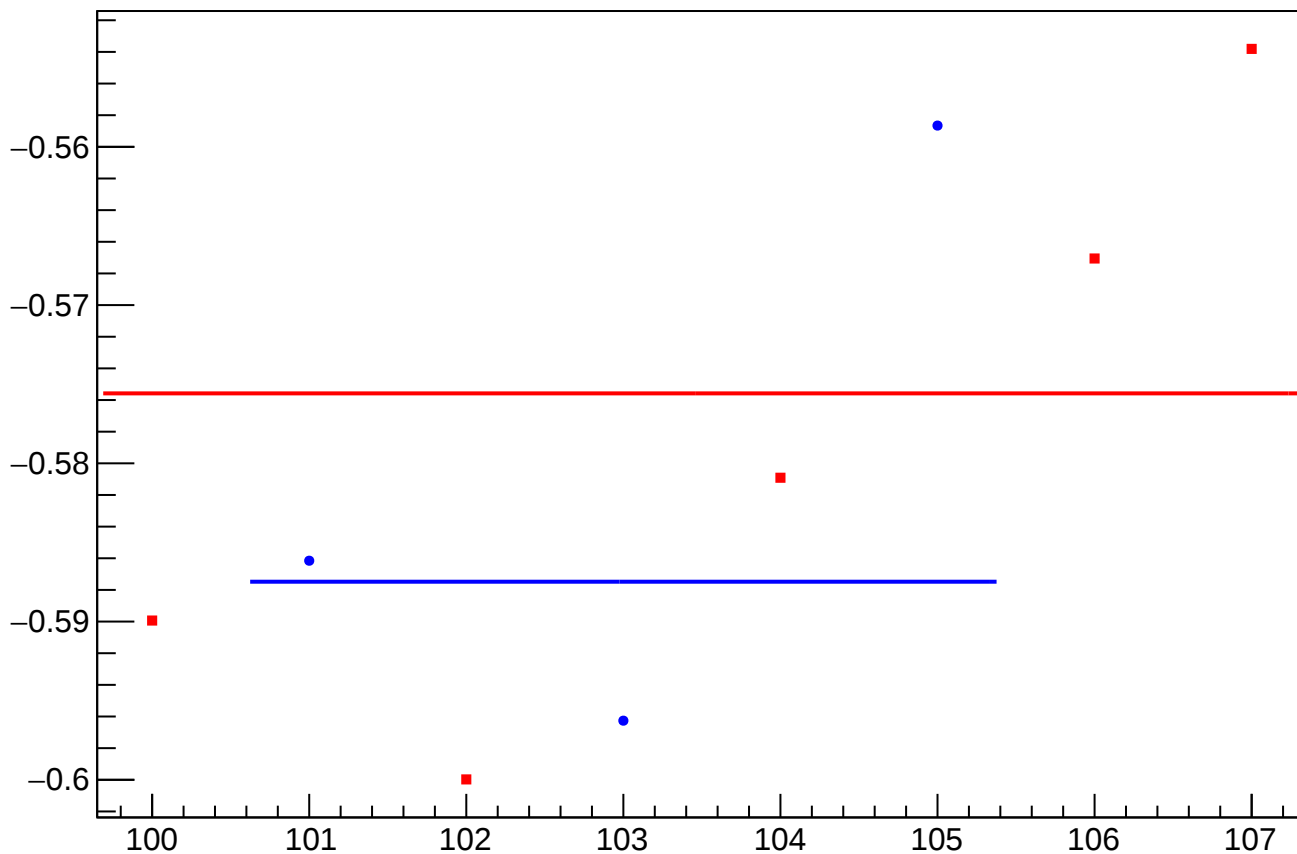
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 373705.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 794.7/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 373705.2/4

# yield\_bpm4aX\_mean vs slug



Right In: -0.587+/-0.000  $\chi^2/\text{NDF}$ : 22124.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

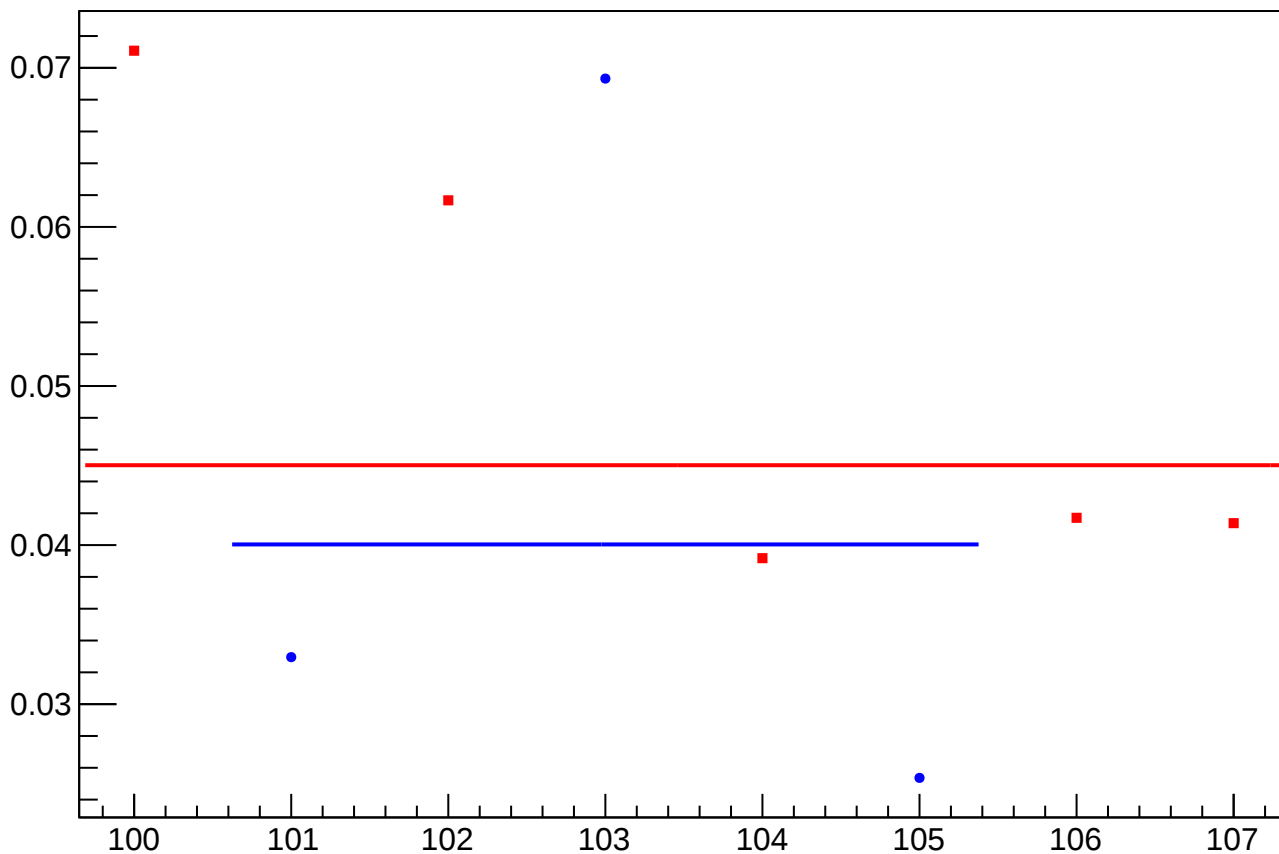
Right Out: -0.576+/-0.000  $\chi^2/\text{NDF}$ : 176143.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.587+/-0.000  $\chi^2/\text{NDF}$ : 22124.0/2

-0.576+/-0.000  $\chi^2/\text{NDF}$ : 176143.6/4

# yield\_bpm4aX\_rms vs slug



Right In: 0.040 $\pm$ 0.000  $\chi^2$ /NDF: 252597.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

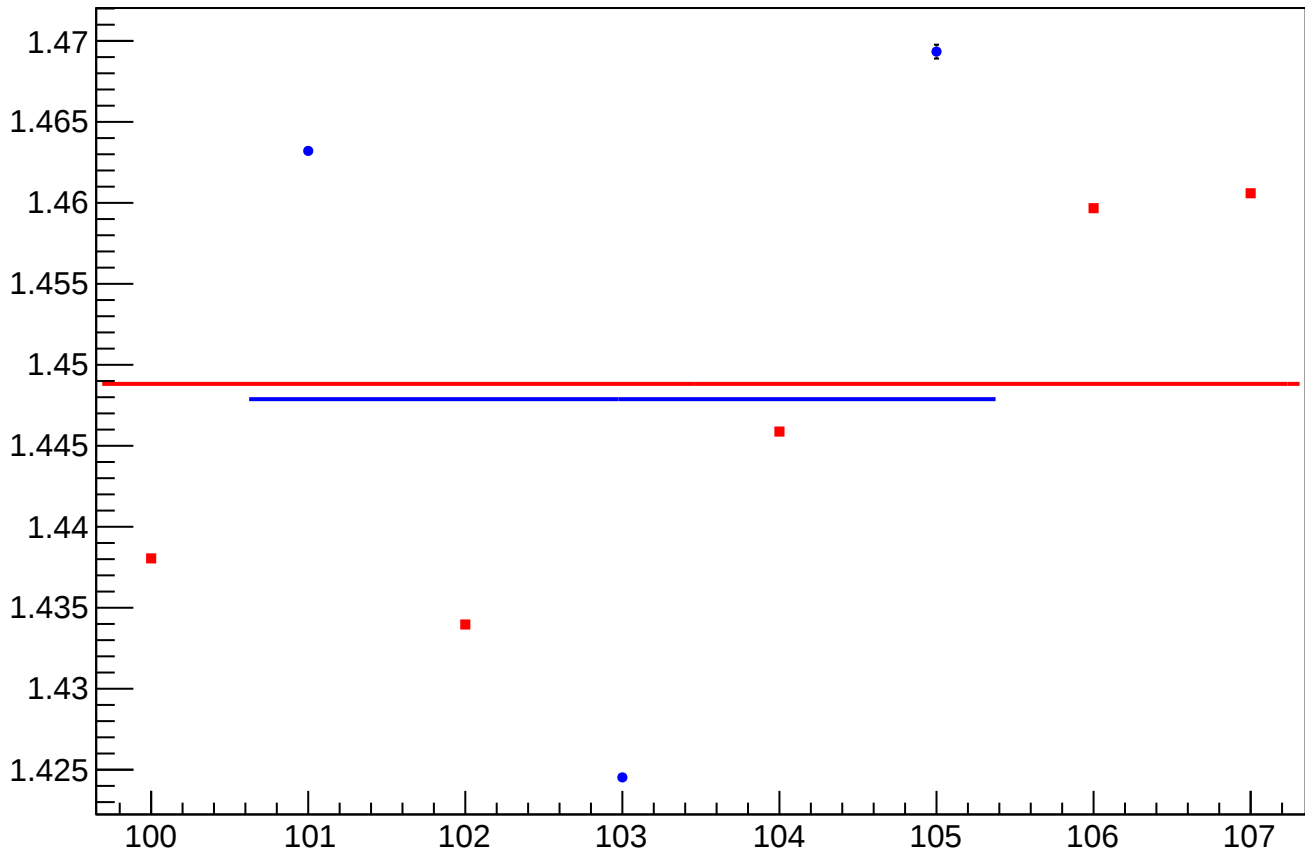
Right Out: 0.045 $\pm$ 0.000  $\chi^2$ /NDF: 115371.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.040 $\pm$ 0.000  $\chi^2$ /NDF: 252597.3/2

0.045 $\pm$ 0.000  $\chi^2$ /NDF: 115371.4/4

# yield\_bpm4aY\_mean vs slug



Right In: 1.448 $\pm$ 0.000  $\chi^2$ /NDF: 1466978.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

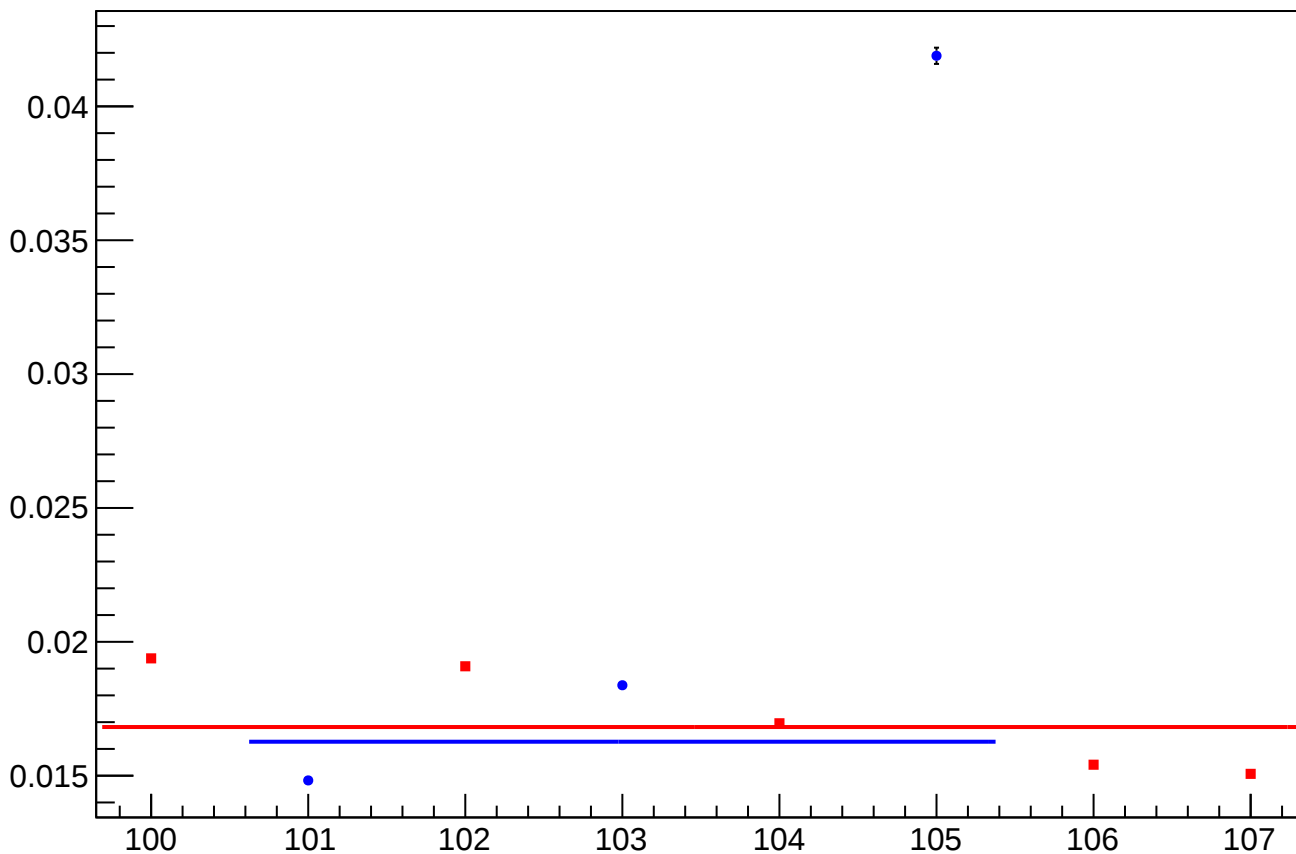
Right Out: 1.449 $\pm$ 0.000  $\chi^2$ /NDF: 659896.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1.448 $\pm$ 0.000  $\chi^2$ /NDF: 1466978.2/2

1.449 $\pm$ 0.000  $\chi^2$ /NDF: 659896.8/4

yield\_bpm4aY\_rms vs slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 31868.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

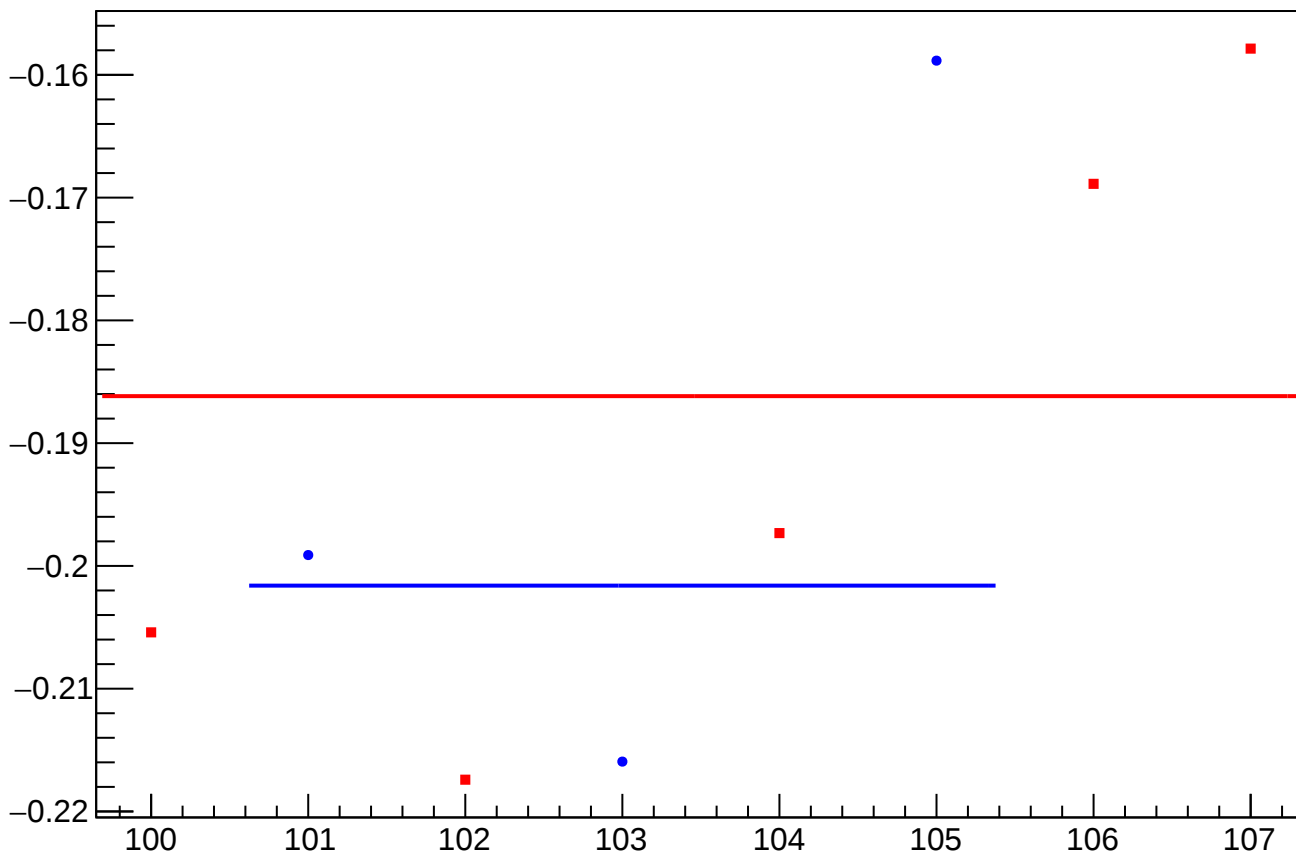
Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 29527.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.016+/-0.000  $\chi^2/\text{NDF}$ : 31868.1/2

0.017+/-0.000  $\chi^2/\text{NDF}$ : 29527.3/4

# yield\_bpm4eX\_mean vs slug



Right In: -0.202+/-0.000  $\chi^2/\text{NDF}$ : 50683.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

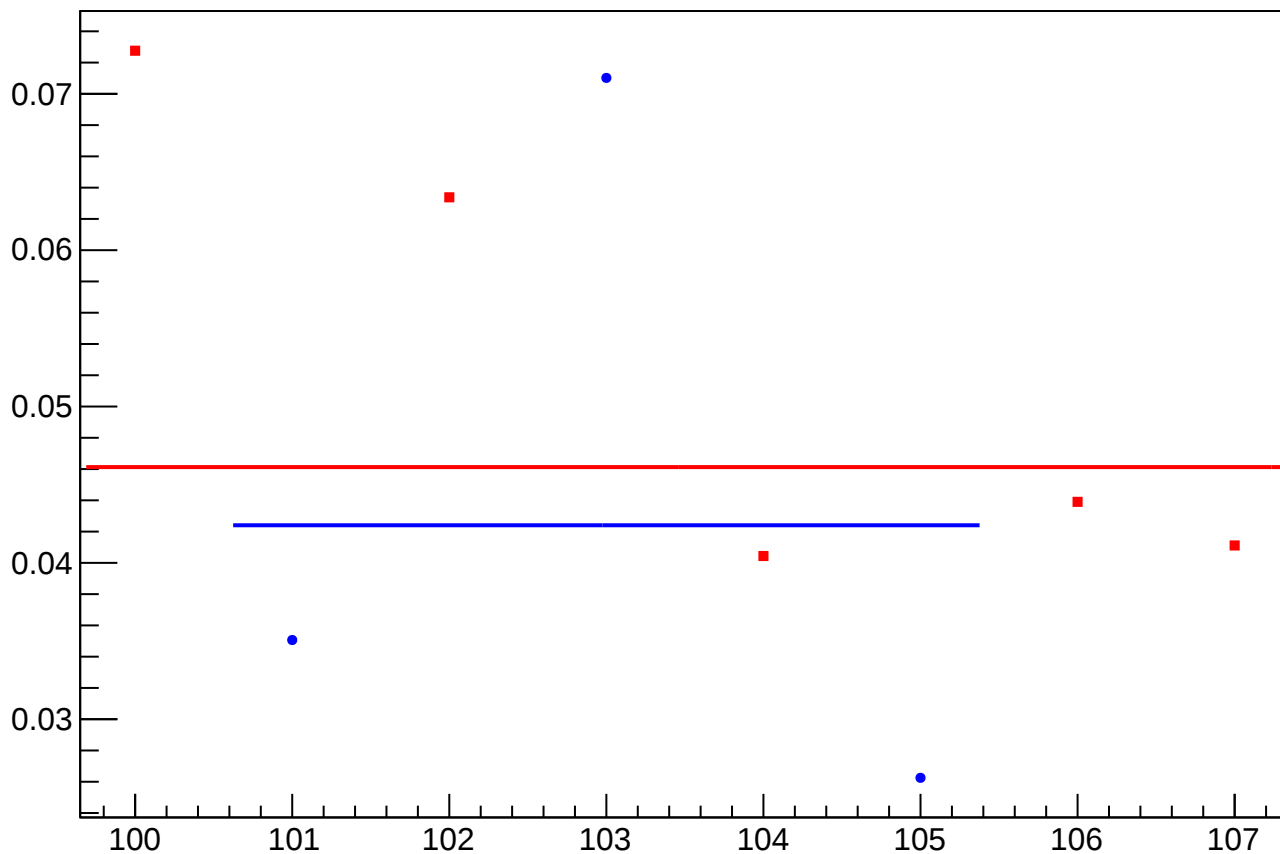
-0.202+/-0.000  $\chi^2/\text{NDF}$ : 50683.0/2

Right Out: -0.186+/-0.000  $\chi^2/\text{NDF}$ : 324672.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.186+/-0.000  $\chi^2/\text{NDF}$ : 324672.5/4

# yield\_bpm4eX\_rms vs slug



Right In: 0.042+/-0.000  $\chi^2/\text{NDF}$ : 233262.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

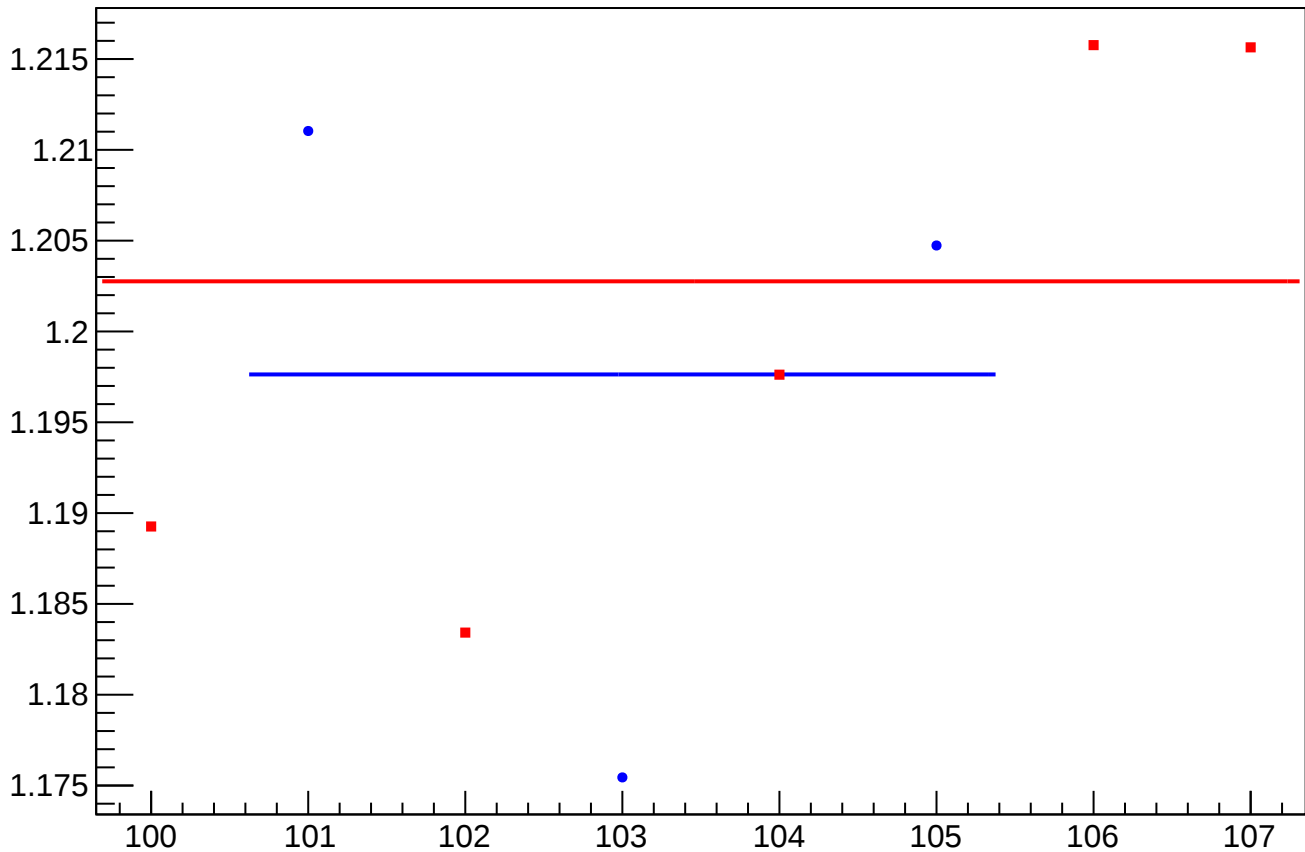
Right Out: 0.046+/-0.000  $\chi^2/\text{NDF}$ : 117080.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.042+/-0.000  $\chi^2/\text{NDF}$ : 233262.1/2

0.046+/-0.000  $\chi^2/\text{NDF}$ : 117080.3/4

# yield\_bpm4eY\_mean vs slug



Right In: 1.198 $\pm$ 0.000  $\chi^2$ /NDF: 1694382.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

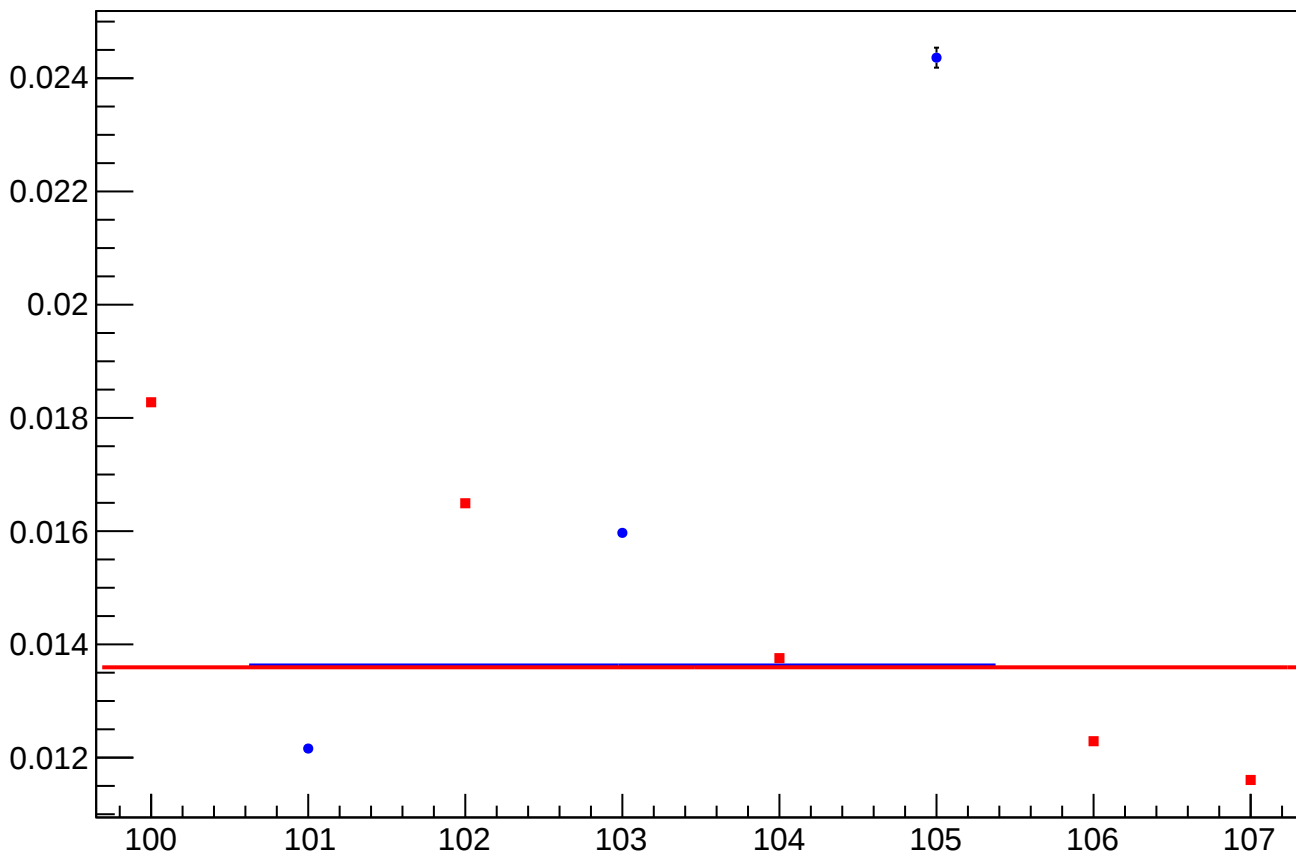
1.198 $\pm$ 0.000  $\chi^2$ /NDF: 1694382.3/2

Right Out: 1.203 $\pm$ 0.000  $\chi^2$ /NDF: 1469453.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1.203 $\pm$ 0.000  $\chi^2$ /NDF: 1469453.4/4

# yield\_bpm4eY\_rms vs slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 42516.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

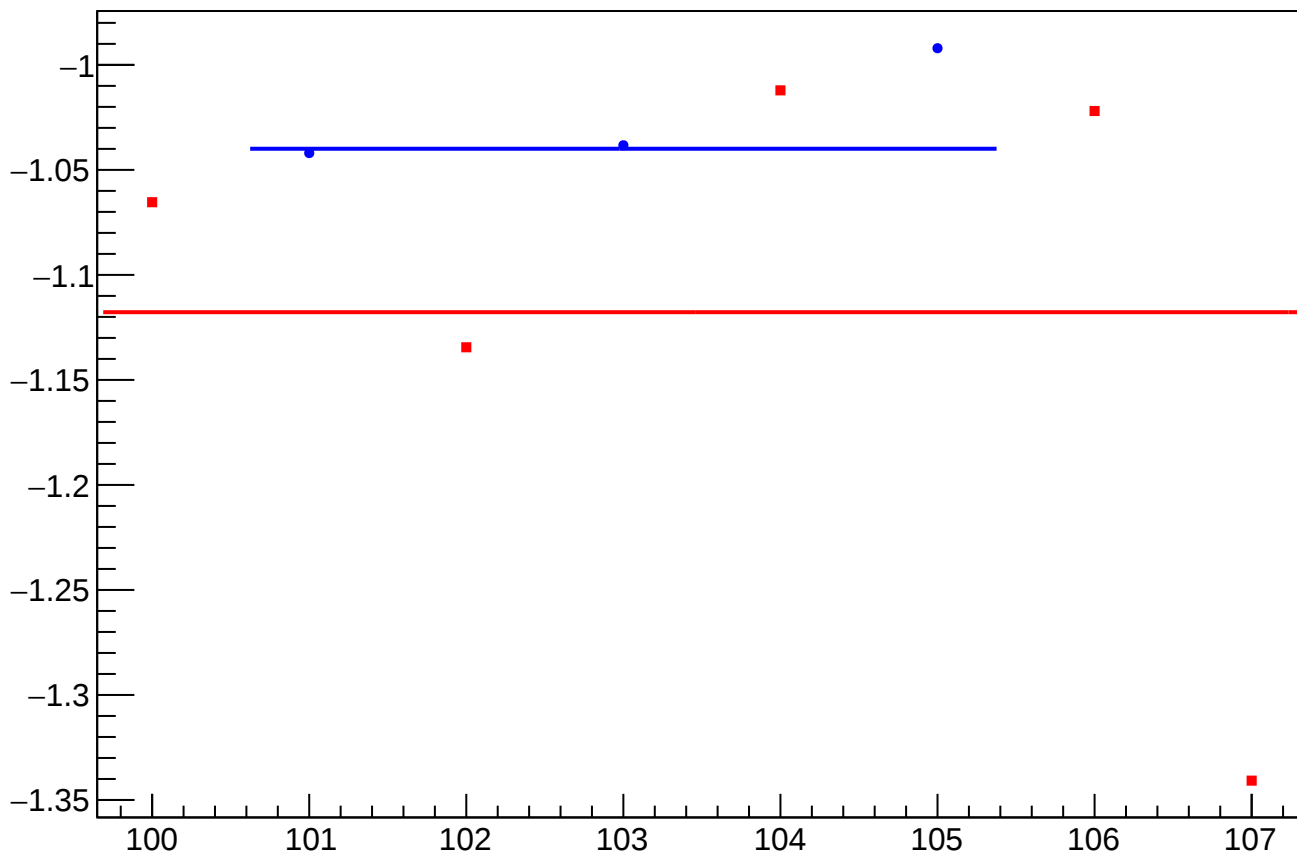
Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 64686.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 42516.6/2

0.014+/-0.000  $\chi^2/\text{NDF}$ : 64686.7/4

# yield\_bpm4acX\_mean vs slug



Right In: -1.040+/-0.000  $\chi^2/\text{NDF}$ : 37203.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

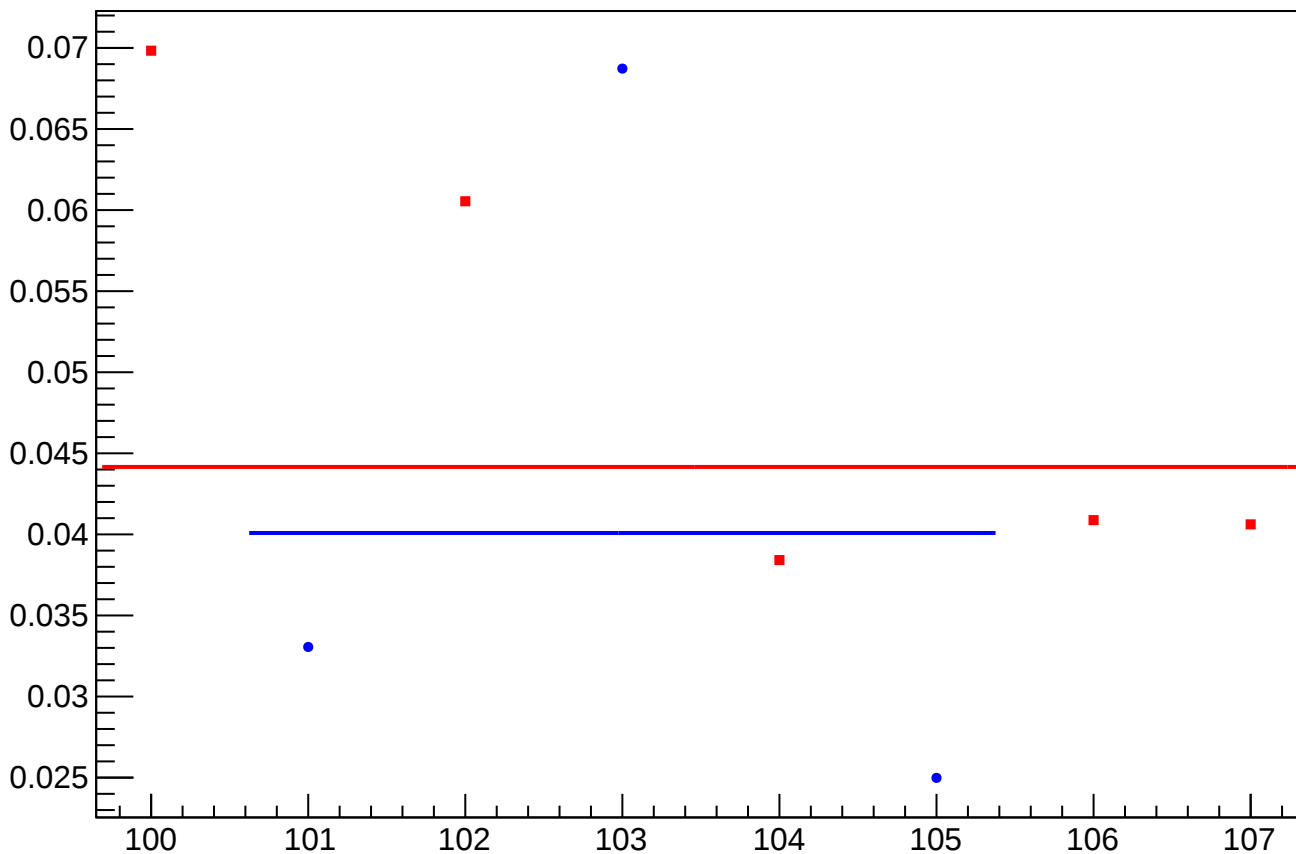
Right Out: -1.118+/-0.000  $\chi^2/\text{NDF}$ : 12928933.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.040+/-0.000  $\chi^2/\text{NDF}$ : 37203.5/2

-1.118+/-0.000  $\chi^2/\text{NDF}$ : 12928933.1/4

# yield\_bpm4acX\_rms vs slug



Right In: 0.040+/-0.000  $\chi^2/\text{NDF}$ : 246296.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

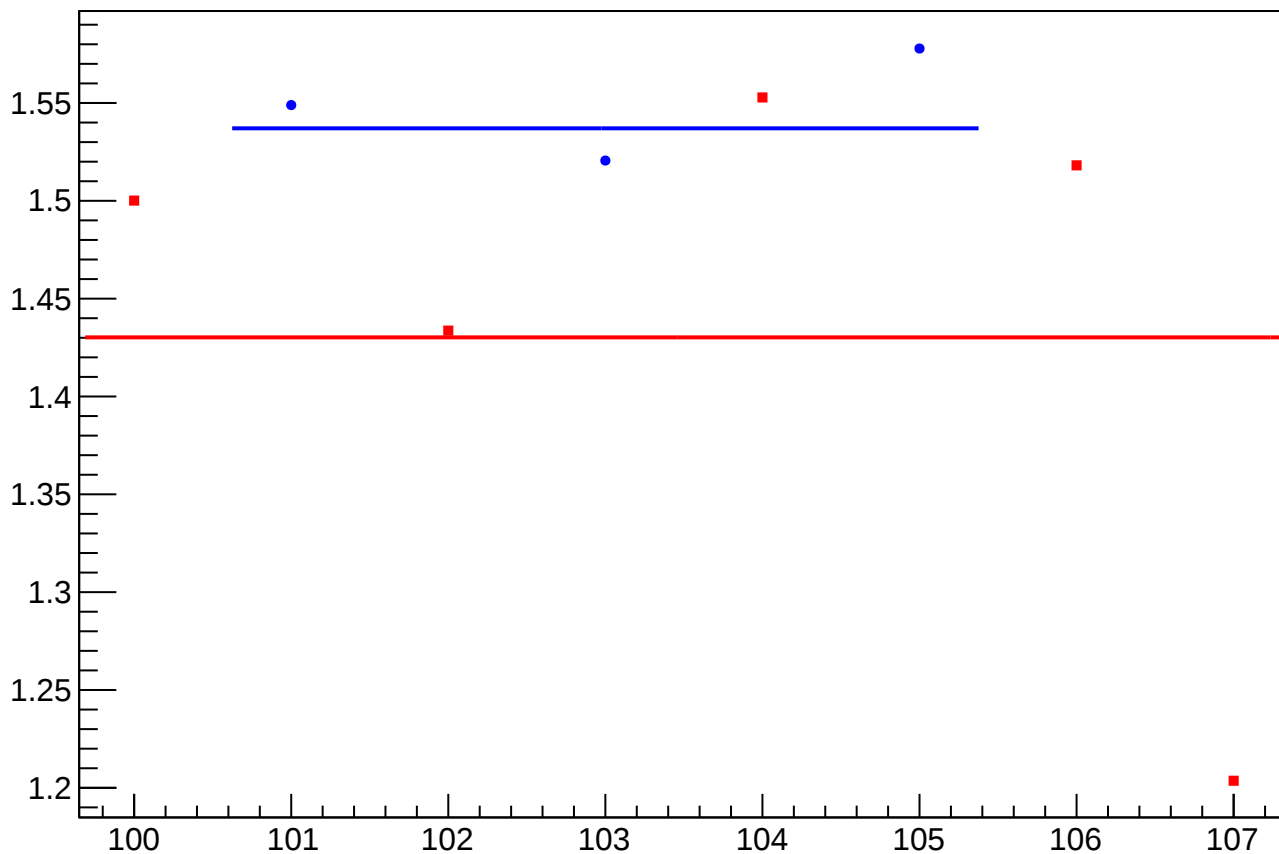
Right Out: 0.044+/-0.000  $\chi^2/\text{NDF}$ : 115842.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.040+/-0.000  $\chi^2/\text{NDF}$ : 246296.5/2

0.044+/-0.000  $\chi^2/\text{NDF}$ : 115842.1/4

# yield\_bpm4acY\_mean vs slug



Right In: 1.537 $\pm$ 0.000  $\chi^2$ /NDF: 717138.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

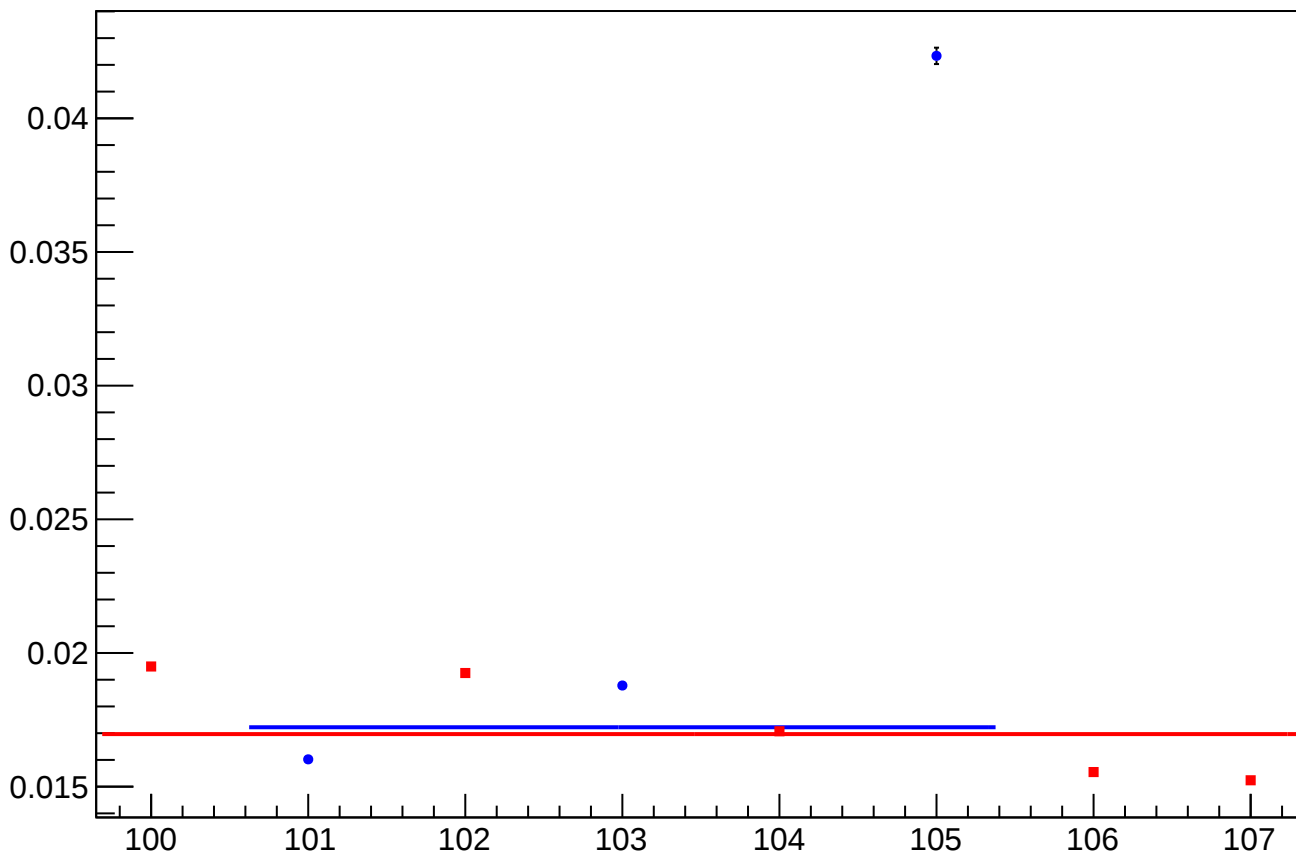
Right Out: 1.430 $\pm$ 0.000  $\chi^2$ /NDF: 101511504.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1.537 $\pm$ 0.000  $\chi^2$ /NDF: 717138.6/2

1.430 $\pm$ 0.000  $\chi^2$ /NDF: 101511504.2/4

# yield\_bpm4acY\_rms vs slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 20152.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

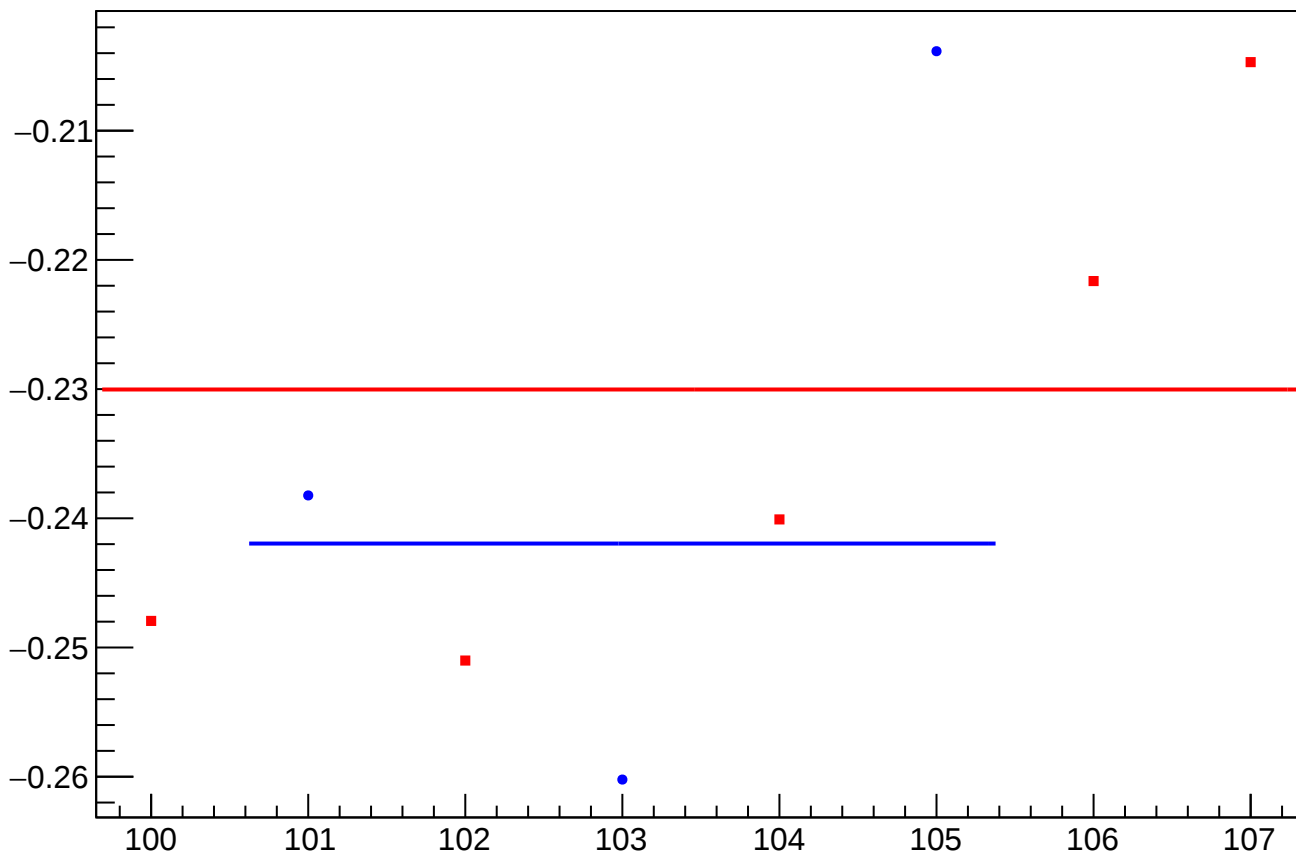
Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 28983.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.017+/-0.000  $\chi^2/\text{NDF}$ : 20152.2/2

0.017+/-0.000  $\chi^2/\text{NDF}$ : 28983.5/4

# yield\_bpm4ecX\_mean vs slug



Right In: -0.242+/-0.000  $\chi^2$ /NDF: 61133.5/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

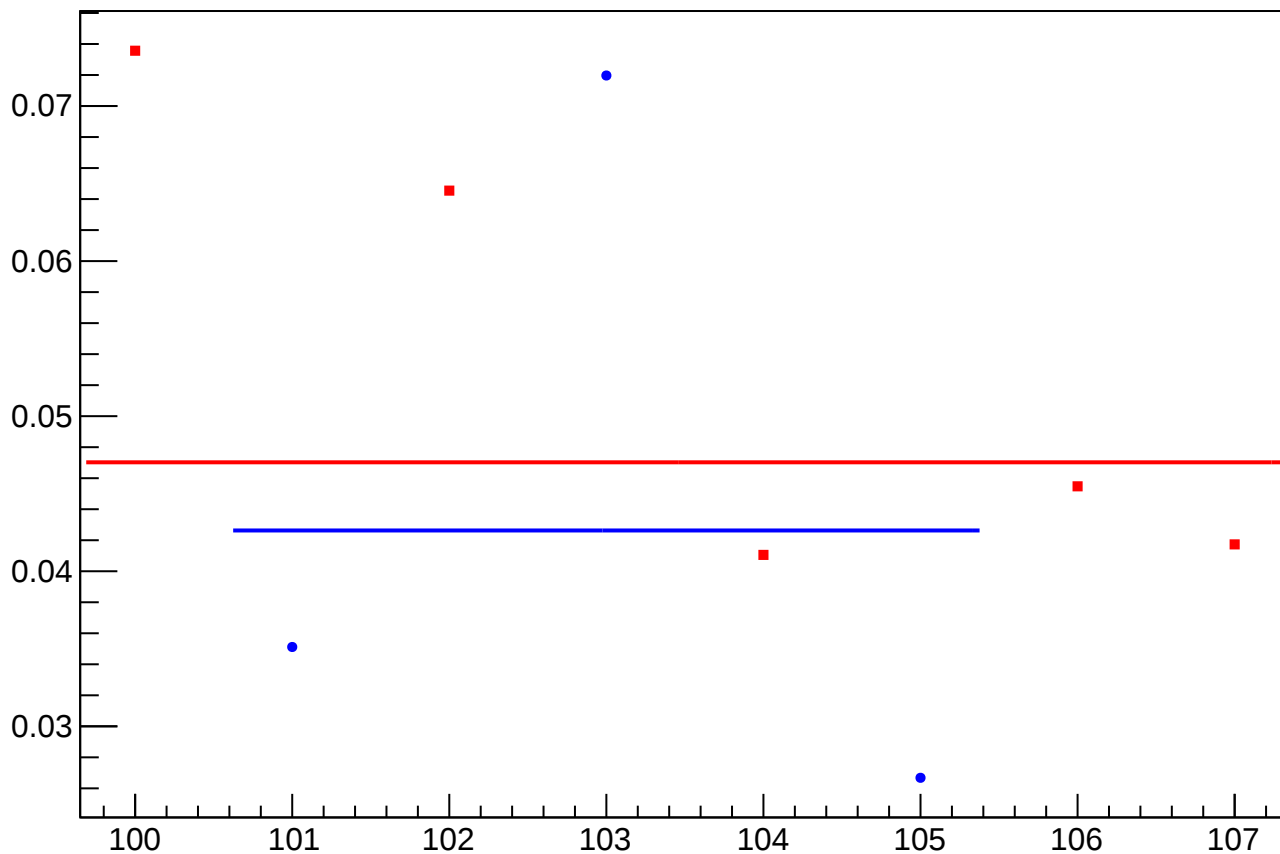
Right Out: -0.230+/-0.000  $\chi^2$ /NDF: 193162.3/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.242+/-0.000  $\chi^2$ /NDF: 61133.5/2

-0.230+/-0.000  $\chi^2$ /NDF: 193162.3/4

# yield\_bpm4ecX\_rms vs slug



Right In: 0.043+/-0.000  $\chi^2/\text{NDF}$ : 238327.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

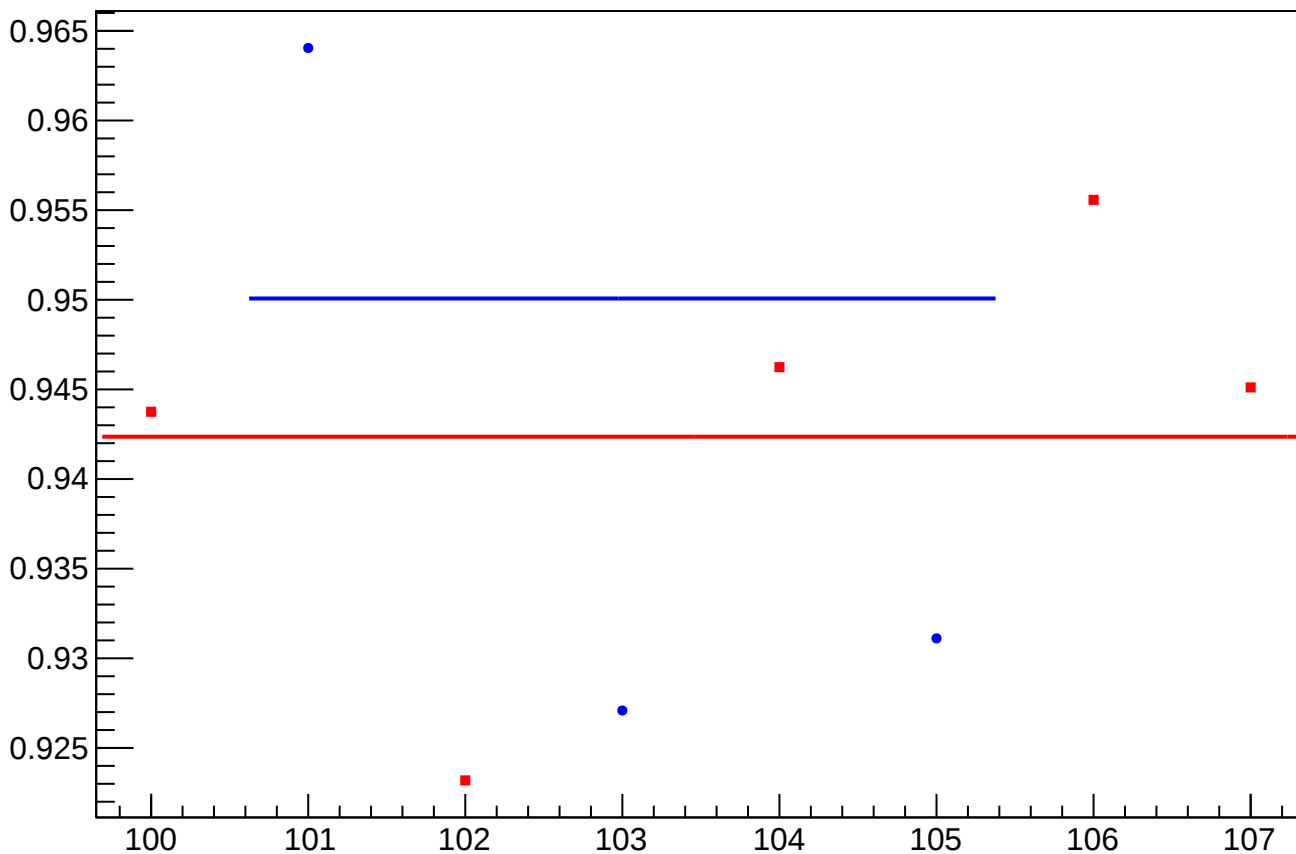
Right Out: 0.047+/-0.000  $\chi^2/\text{NDF}$ : 117615.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.043+/-0.000  $\chi^2/\text{NDF}$ : 238327.0/2

0.047+/-0.000  $\chi^2/\text{NDF}$ : 117615.6/4

# yield\_bpm4ecY\_mean vs slug



Right In: 0.950+/-0.000  $\chi^2/\text{NDF}$ : 1793826.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

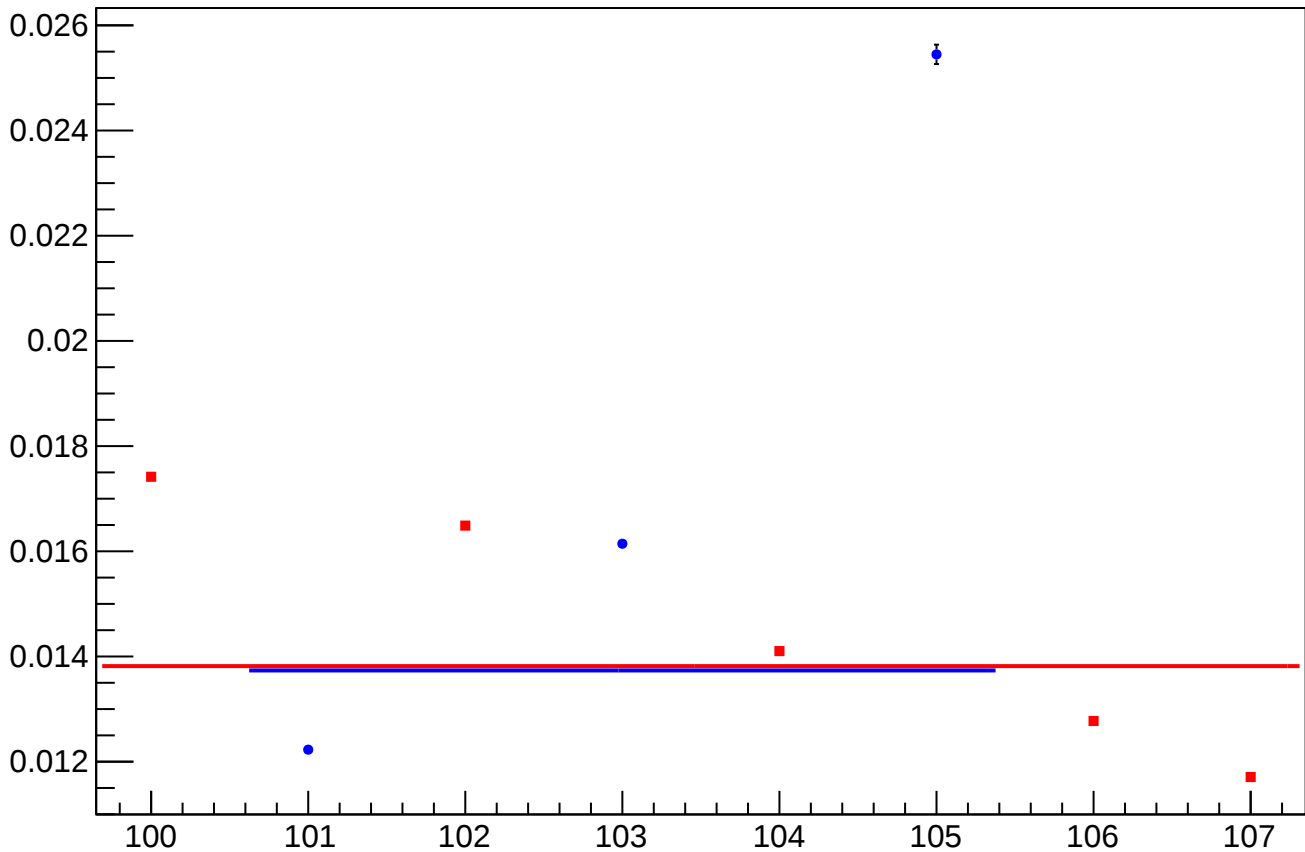
Right Out: 0.942+/-0.000  $\chi^2/\text{NDF}$ : 1014157.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.950+/-0.000  $\chi^2/\text{NDF}$ : 1793826.4/2

0.942+/-0.000  $\chi^2/\text{NDF}$ : 1014157.6/4

# yield\_bpm4ecY\_rms vs slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 44201.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

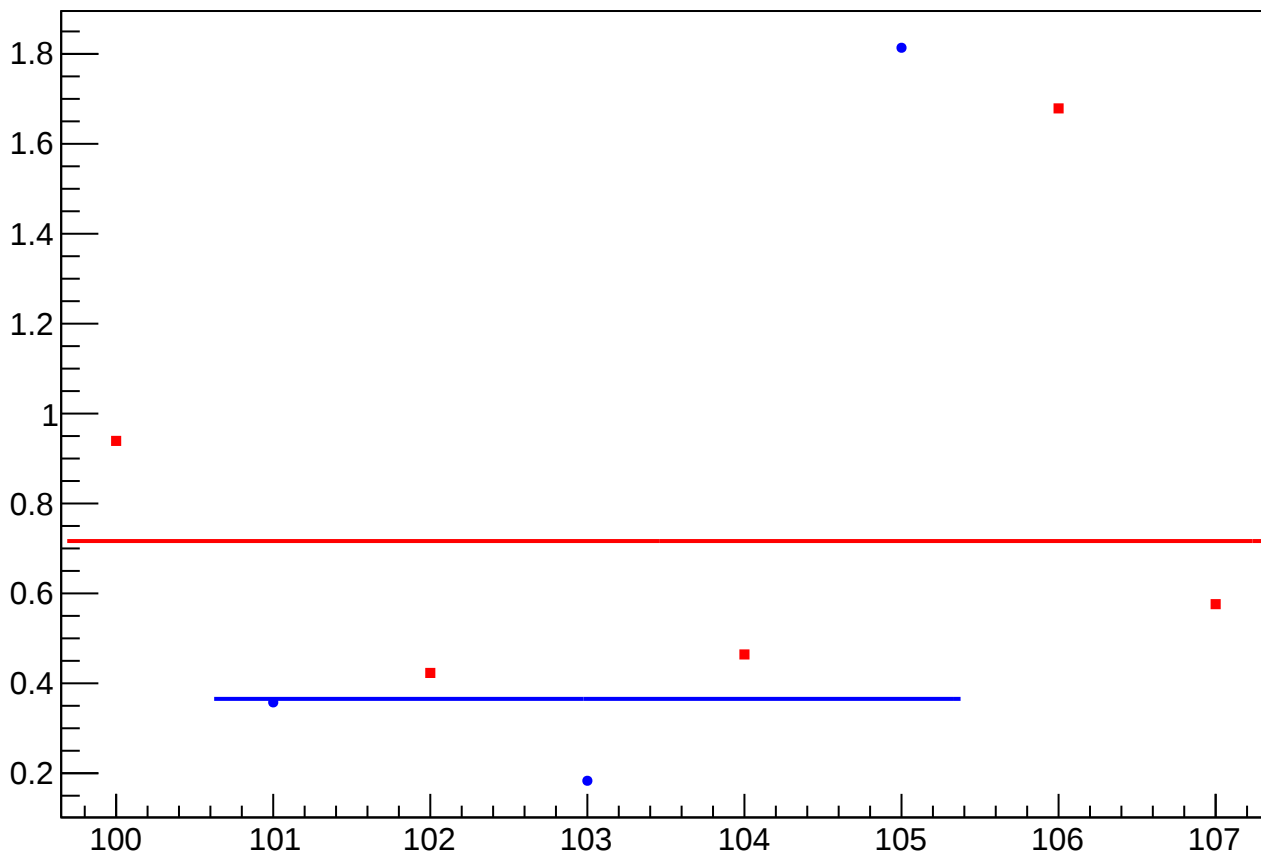
Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 56894.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 44201.5/2

0.014+/-0.000  $\chi^2/\text{NDF}$ : 56894.9/4

yield\_bpm1X\_mean vs slug



Right In: 0.365+/-0.000  $\chi^2/\text{NDF}$ : 55970838.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

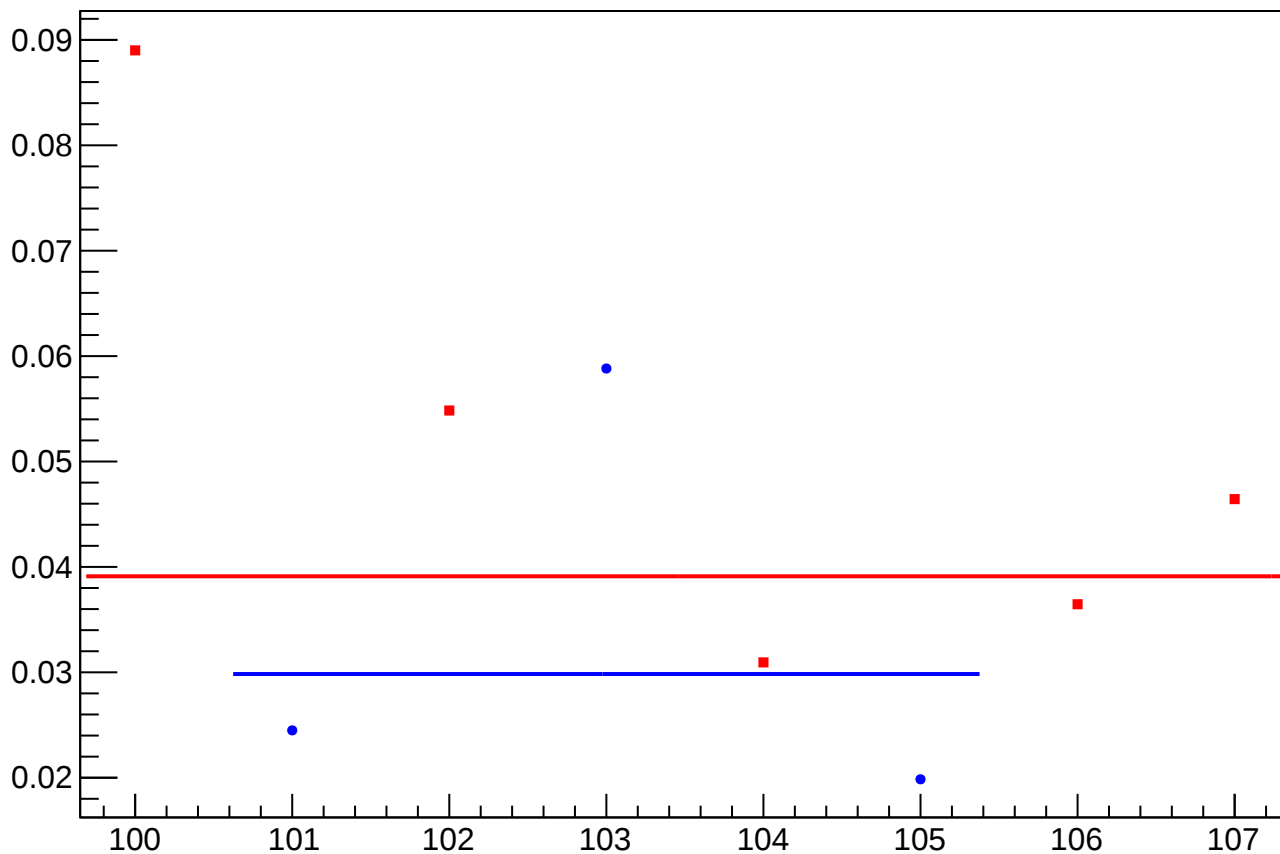
0.365+/-0.000  $\chi^2/\text{NDF}$ : 55970838.4/2

Right Out: 0.716+/-0.000  $\chi^2/\text{NDF}$ : 195790632.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.716+/-0.000  $\chi^2/\text{NDF}$ : 195790632.1/4

# yield\_bpm1X\_rms vs slug



Right In: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 315668.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

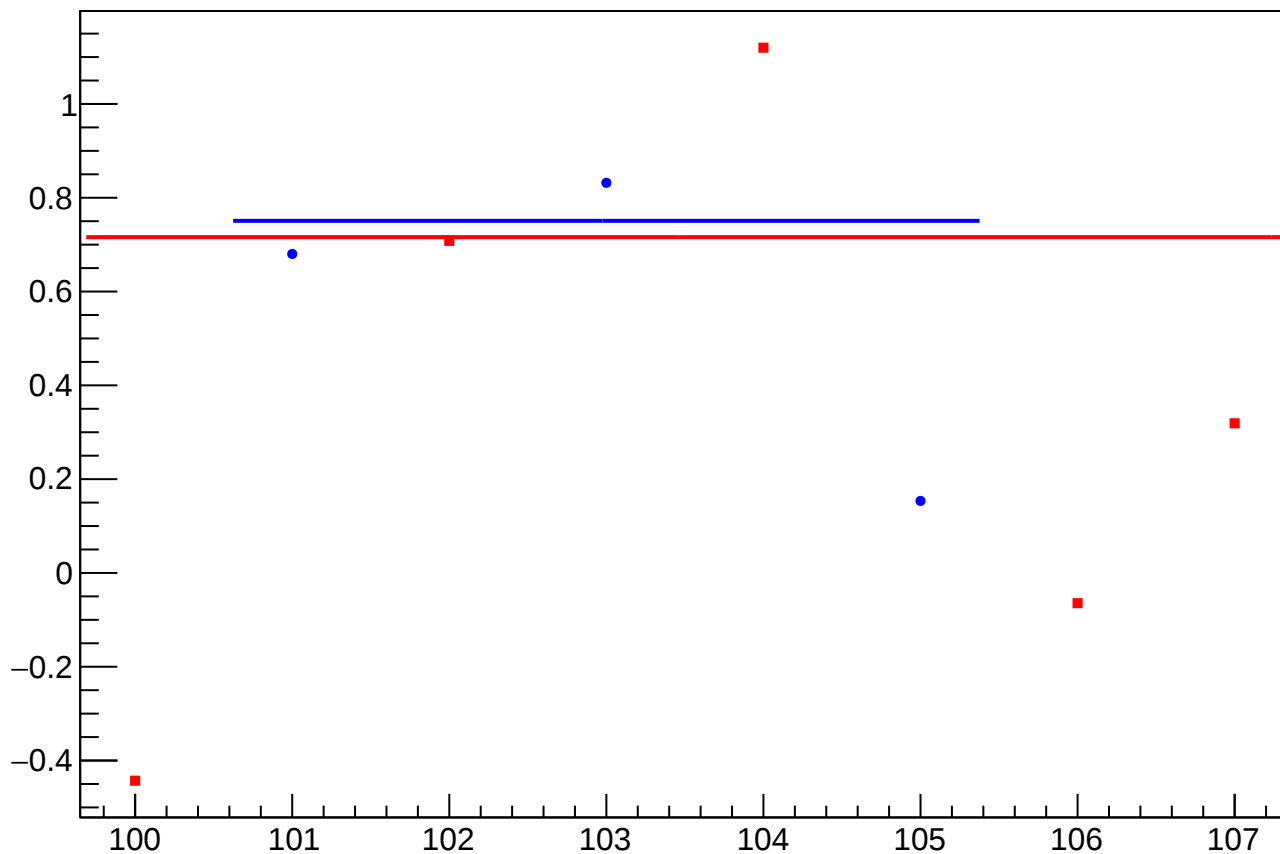
Right Out: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 185093.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.030+/-0.000  $\chi^2/\text{NDF}$ : 315668.5/2

0.039+/-0.000  $\chi^2/\text{NDF}$ : 185093.0/4

yield\_bpm1Y\_mean vs slug



Right In: 0.751+/-0.000  $\chi^2/\text{NDF}$ : 15119123.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

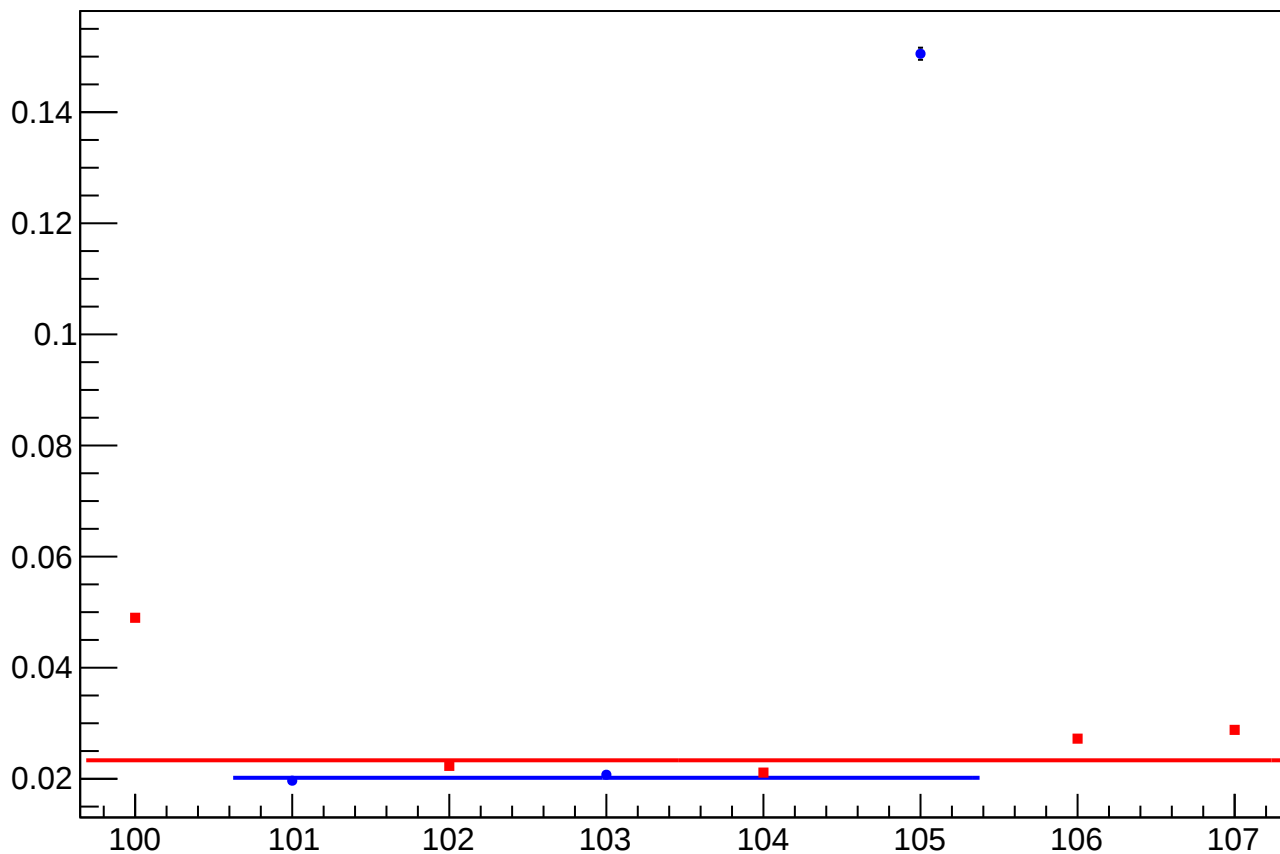
Right Out: 0.716+/-0.000  $\chi^2/\text{NDF}$ : 454637756.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.751+/-0.000  $\chi^2/\text{NDF}$ : 15119123.8/2

0.716+/-0.000  $\chi^2/\text{NDF}$ : 454637756.2/4

# yield\_bpm1Y\_rms vs slug



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 15792.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

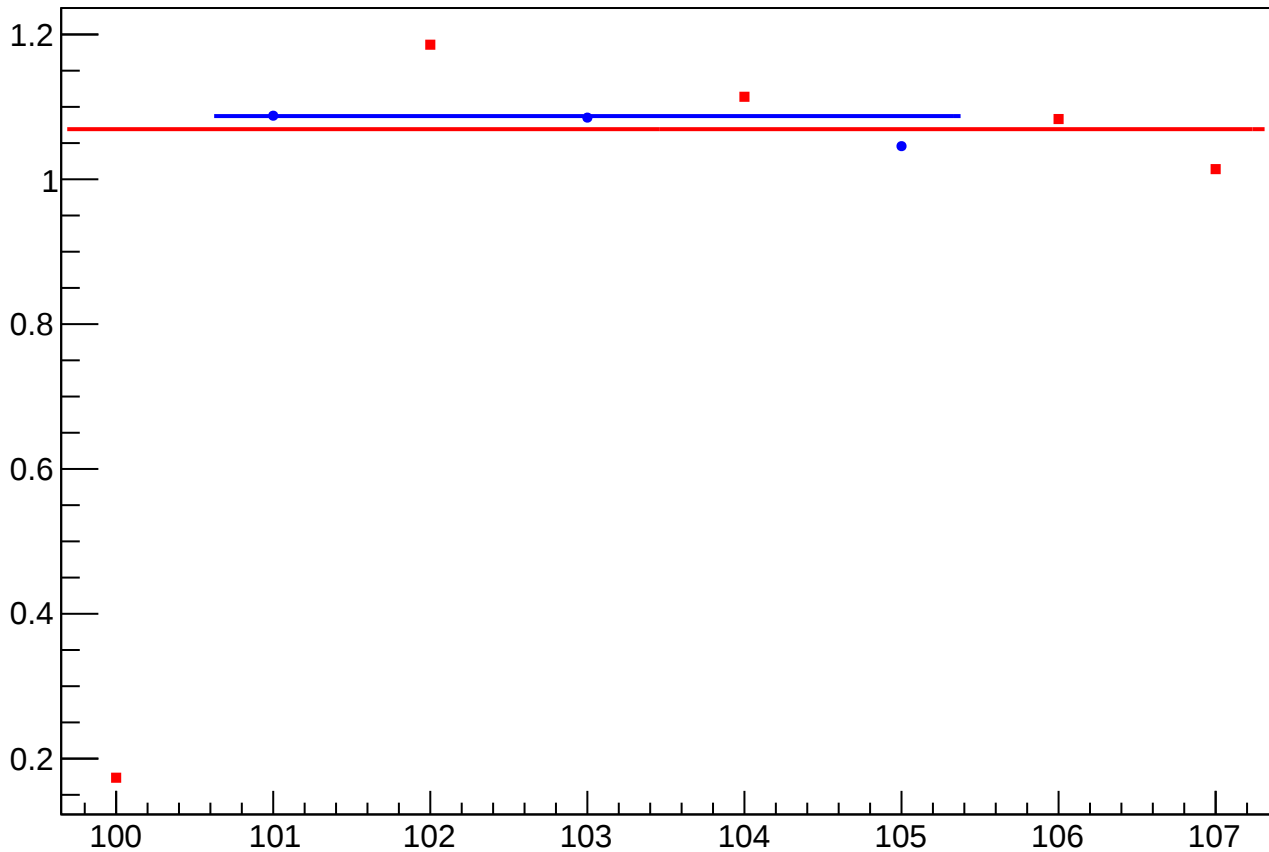
Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 66235.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.020+/-0.000  $\chi^2/\text{NDF}$ : 15792.9/2

0.023+/-0.000  $\chi^2/\text{NDF}$ : 66235.2/4

# yield\_bpm11X\_mean vs slug



Right In: 1.087+/-0.000  $\chi^2/\text{NDF}$ : 12650.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

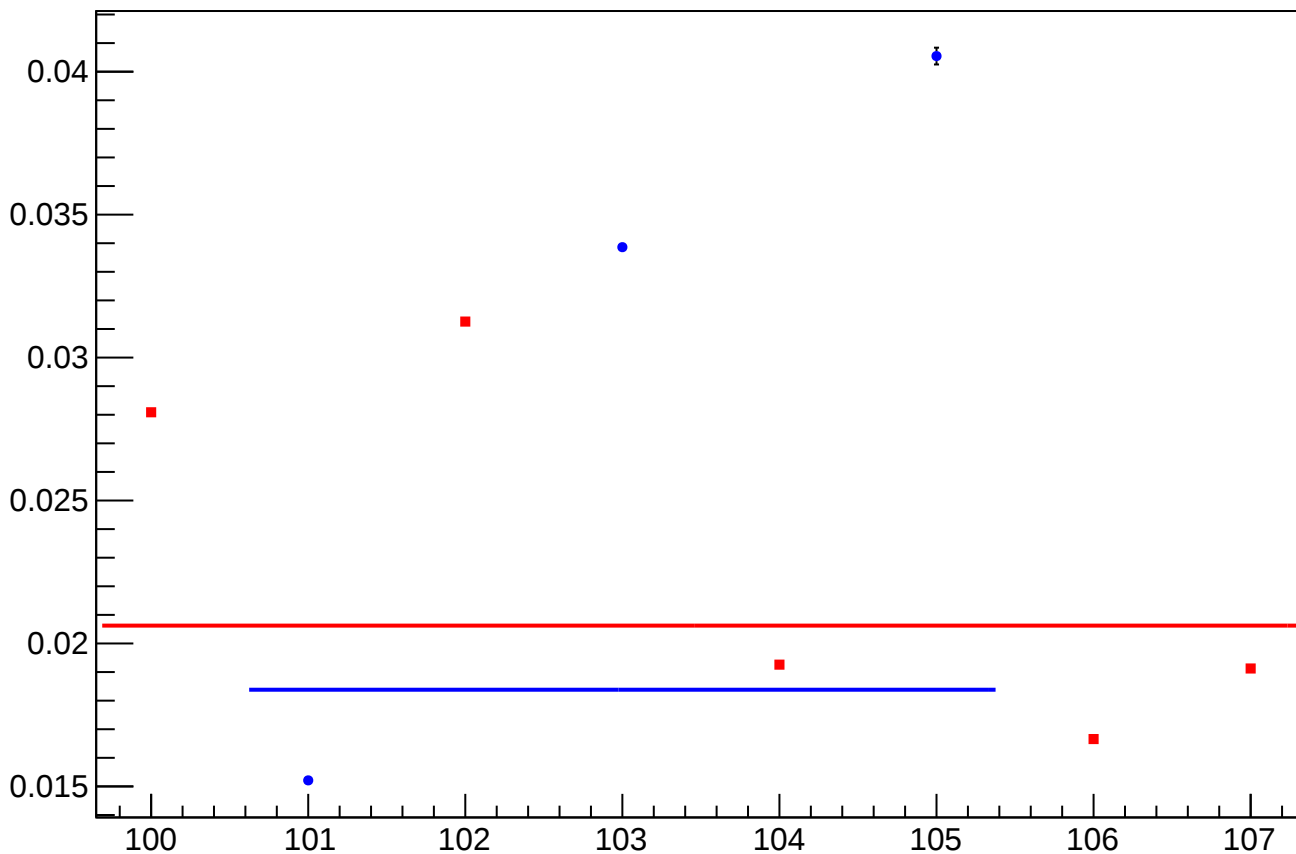
1.087+/-0.000  $\chi^2/\text{NDF}$ : 12650.9/2

Right Out: 1.069+/-0.000  $\chi^2/\text{NDF}$ : 78475194.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.069+/-0.000  $\chi^2/\text{NDF}$ : 78475194.9/4

# yield\_bpm11X\_rms vs slug



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 269105.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

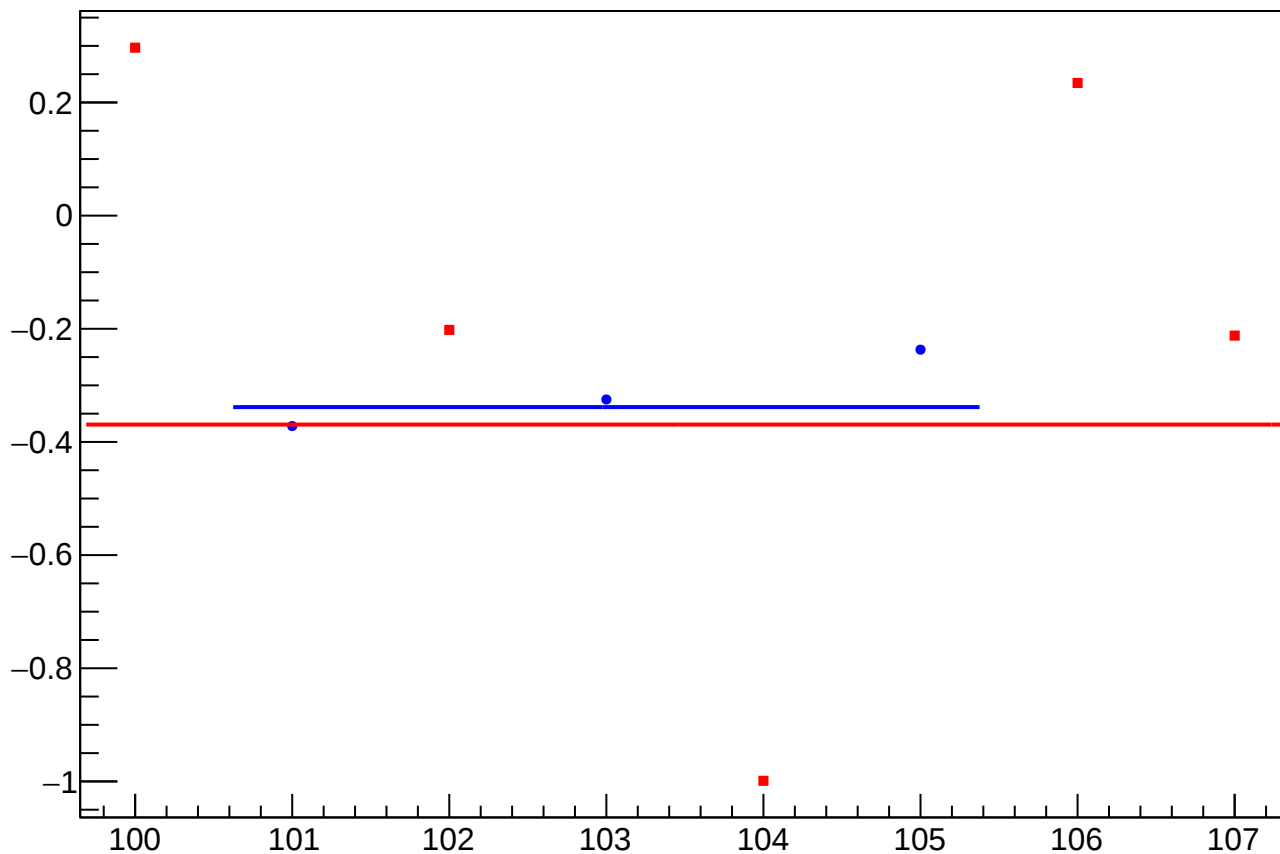
Right Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 154480.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.018+/-0.000  $\chi^2/\text{NDF}$ : 269105.5/2

0.021+/-0.000  $\chi^2/\text{NDF}$ : 154480.6/4

# yield\_bpm11Y\_mean vs slug



Right In: -0.338+/-0.000  $\chi^2/\text{NDF}$ : 1776623.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

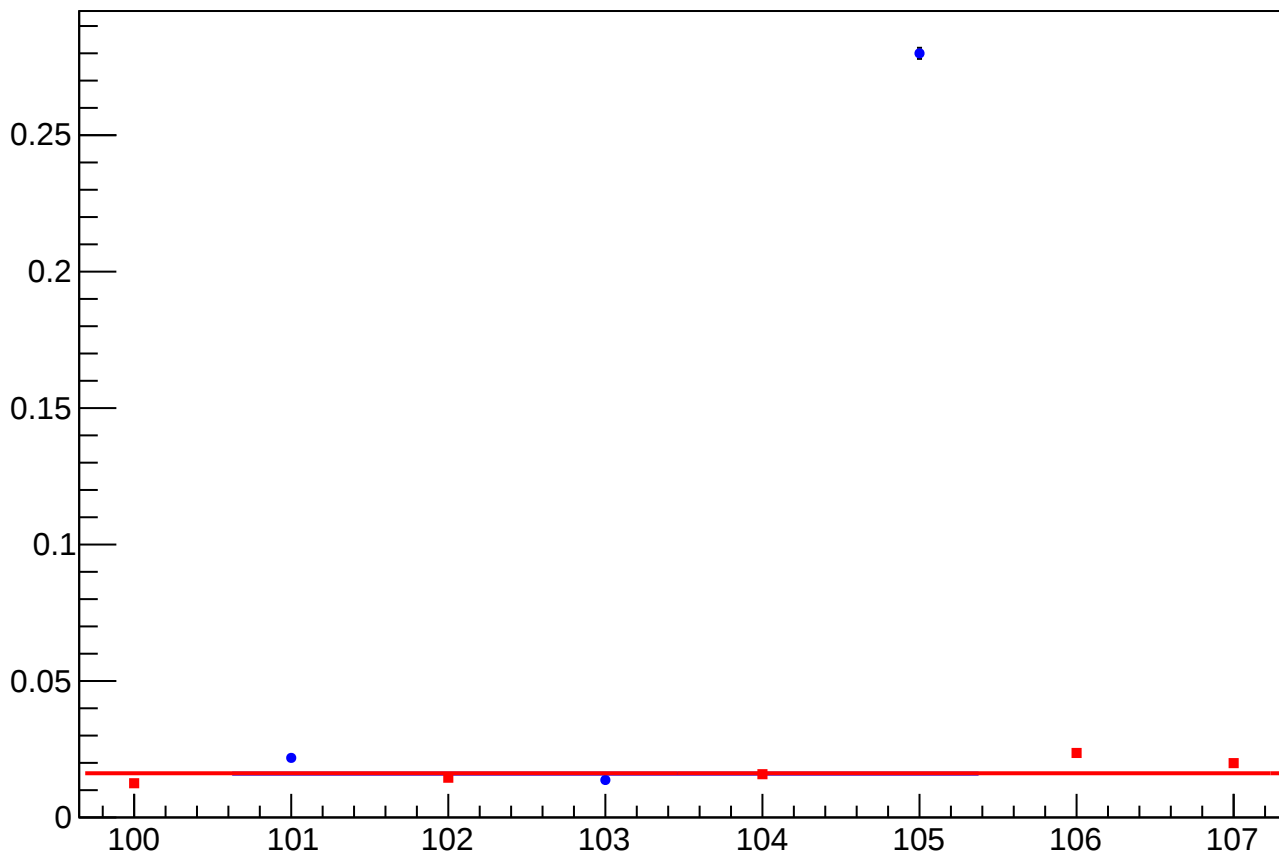
Right Out: -0.369+/-0.000  $\chi^2/\text{NDF}$ : 1106322539.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.338+/-0.000  $\chi^2/\text{NDF}$ : 1776623.9/2

-0.369+/-0.000  $\chi^2/\text{NDF}$ : 1106322539.6/4

yield\_bpm11Y\_rms vs slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 122534.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

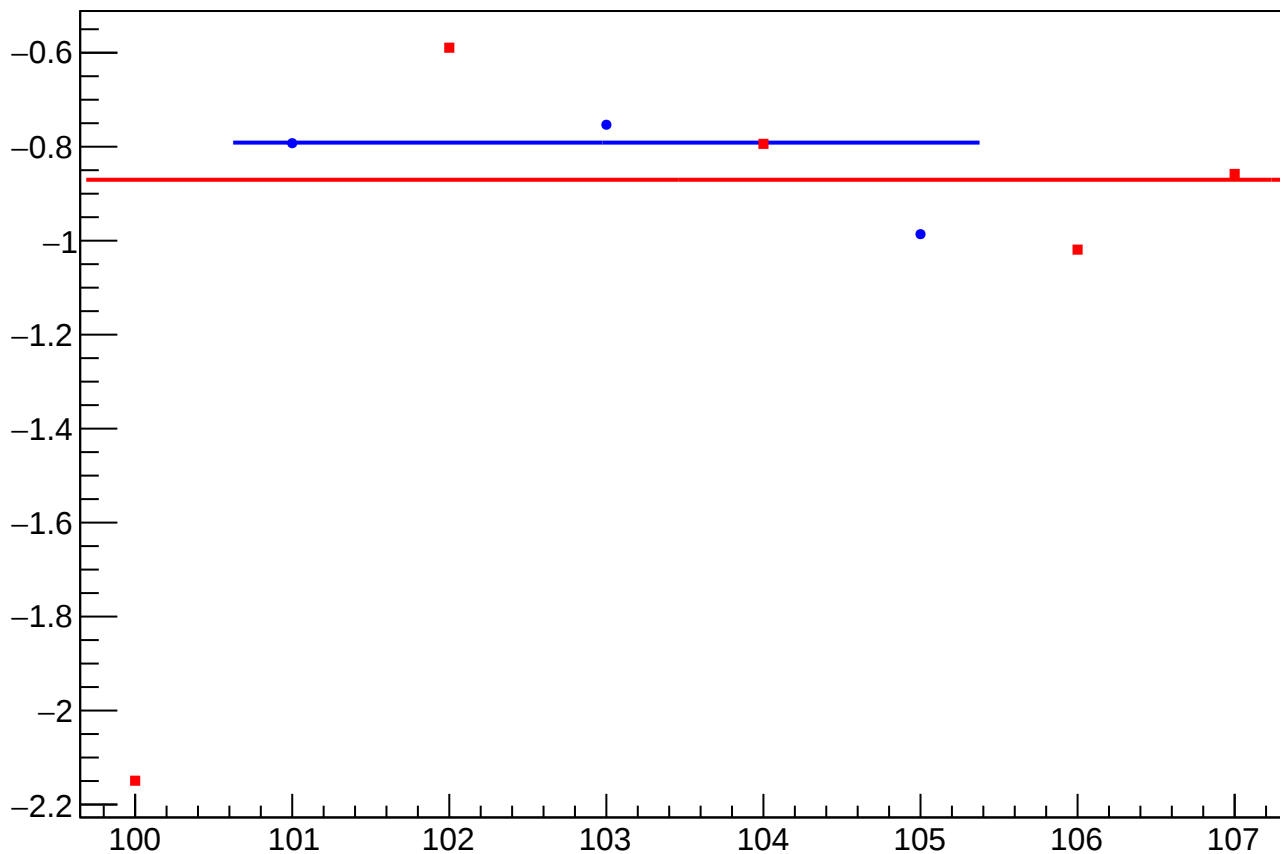
Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 93675.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.016+/-0.000  $\chi^2/\text{NDF}$ : 122534.4/2

0.016+/-0.000  $\chi^2/\text{NDF}$ : 93675.0/4

yield\_bpm12X\_mean vs slug



Right In: -0.791+/-0.000  $\chi^2/\text{NDF}$ : 847582.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

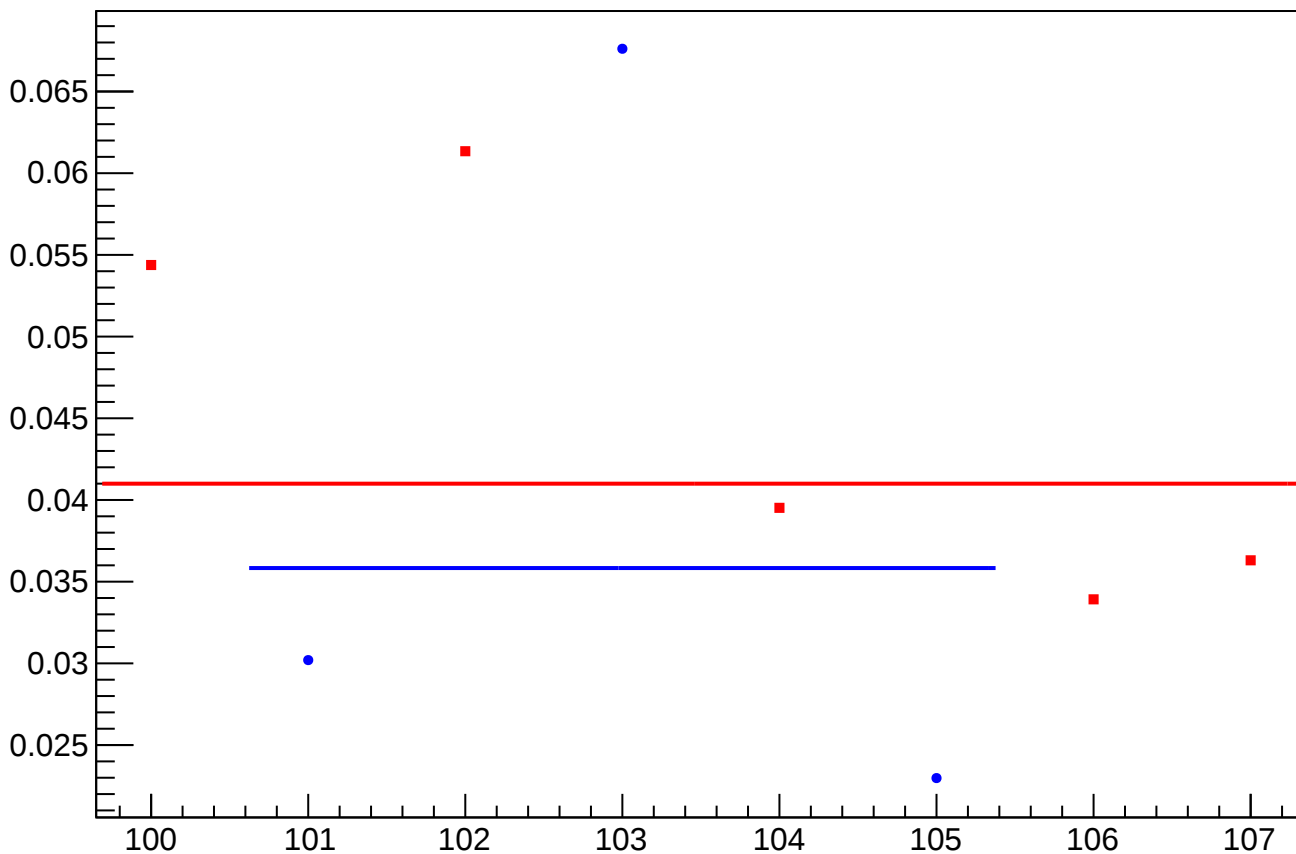
Right Out: -0.870+/-0.000  $\chi^2/\text{NDF}$ : 51449546.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.791+/-0.000  $\chi^2/\text{NDF}$ : 847582.6/2

-0.870+/-0.000  $\chi^2/\text{NDF}$ : 51449546.3/4

# yield\_bpm12X\_rms vs slug



Right In: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 269480.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

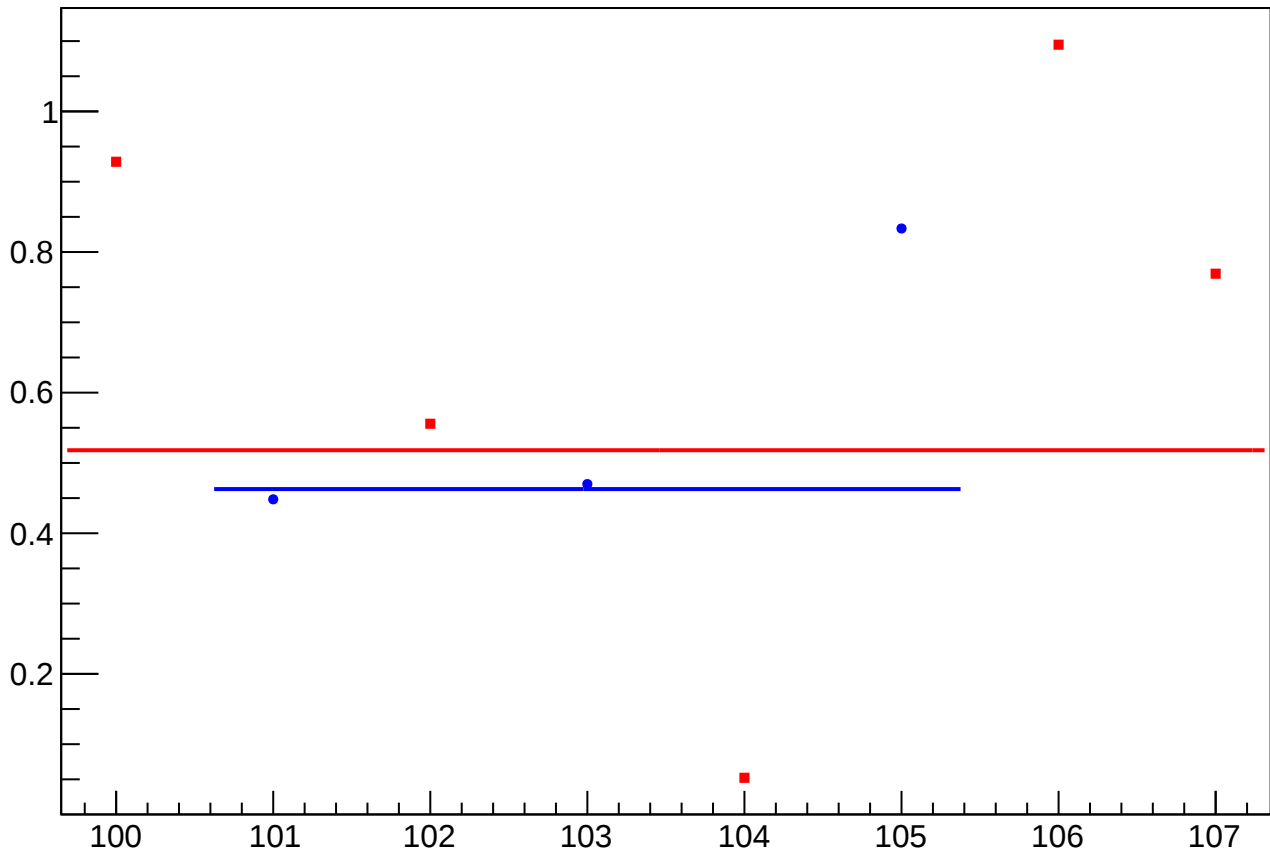
0.036+/-0.000  $\chi^2/\text{NDF}$ : 269480.1/2

Right Out: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 144143.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.041+/-0.000  $\chi^2/\text{NDF}$ : 144143.8/4

# yield\_bpm12Y\_mean vs slug



Right In: 0.463+/-0.000  $\chi^2/\text{NDF}$ : 809847.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

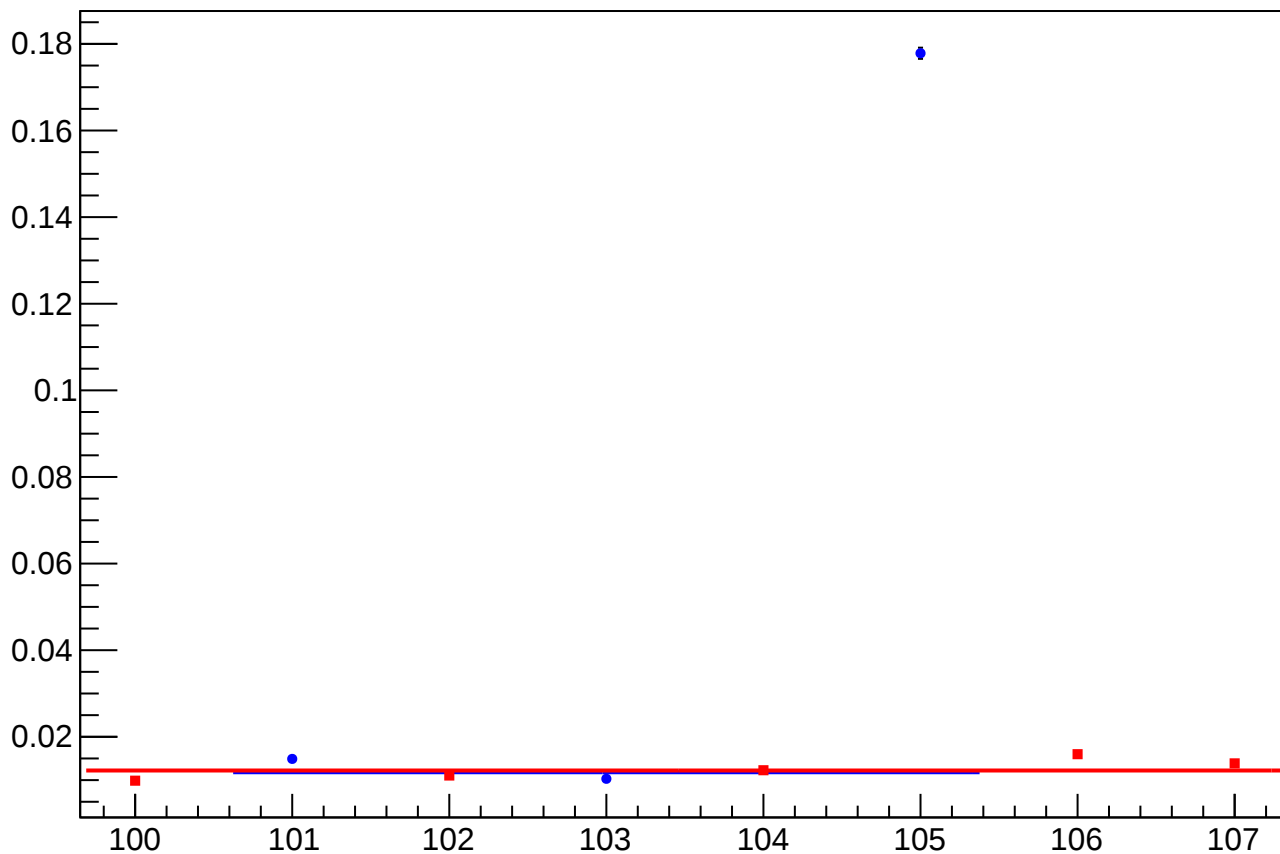
Right Out: 0.518+/-0.000  $\chi^2/\text{NDF}$ : 1179038428.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.463+/-0.000  $\chi^2/\text{NDF}$ : 809847.4/2

0.518+/-0.000  $\chi^2/\text{NDF}$ : 1179038428.0/4

yield\_bpm12Y\_rms vs slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 85547.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

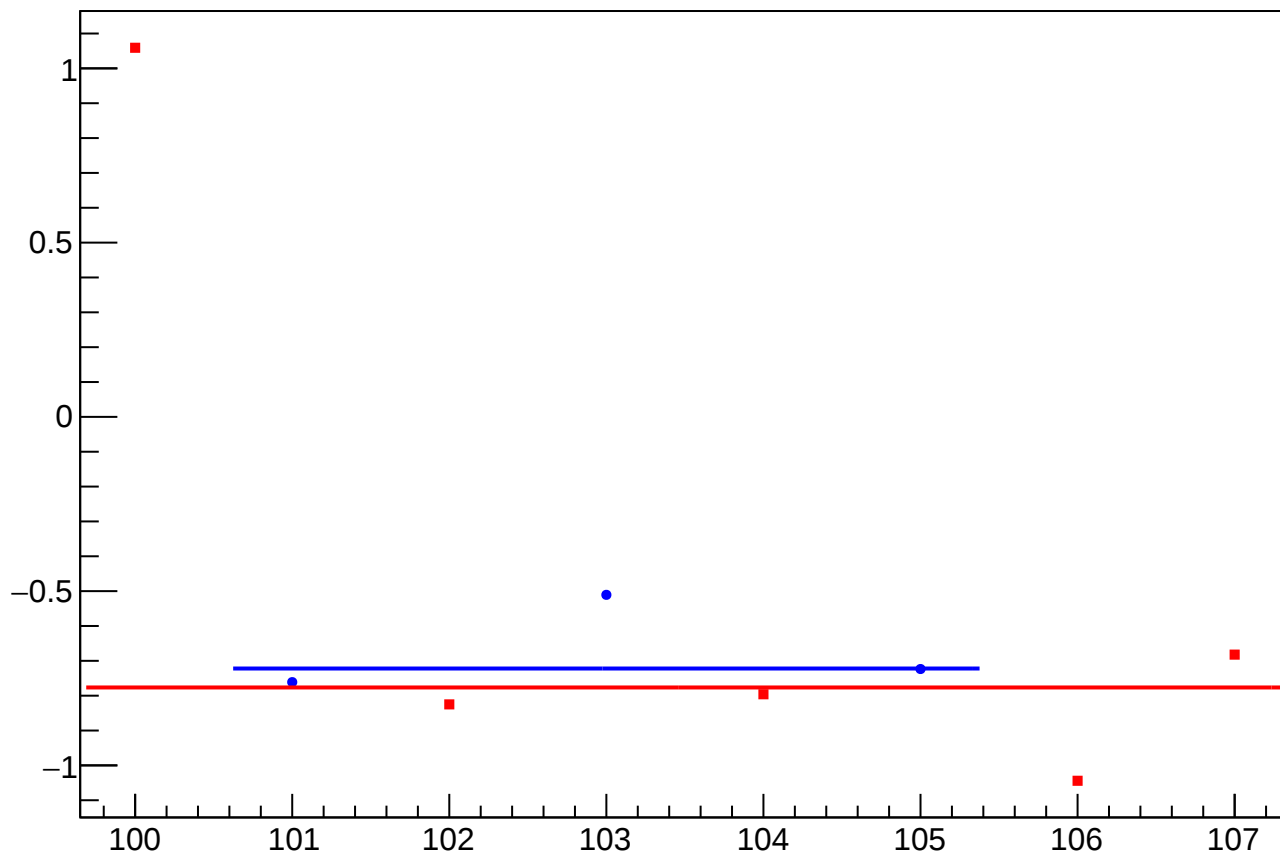
Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 54741.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.012+/-0.000  $\chi^2/\text{NDF}$ : 85547.1/2

0.012+/-0.000  $\chi^2/\text{NDF}$ : 54741.9/4

# yield\_bpm16X\_mean vs slug



Right In: -0.722+/-0.000  $\chi^2/\text{NDF}$ : 5899591.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

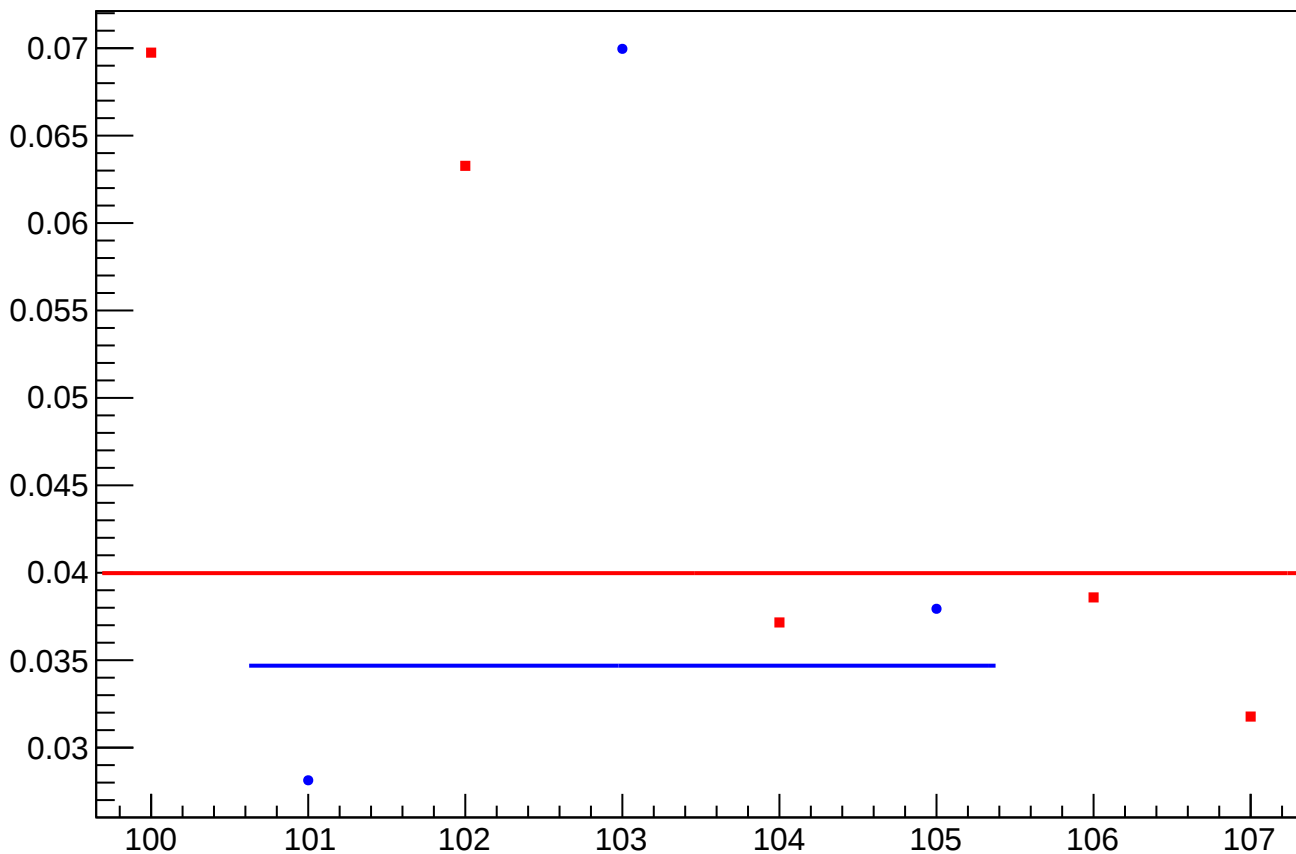
Right Out: -0.776+/-0.000  $\chi^2/\text{NDF}$ : 61738628.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.722+/-0.000  $\chi^2/\text{NDF}$ : 5899591.7/2

-0.776+/-0.000  $\chi^2/\text{NDF}$ : 61738628.3/4

# yield\_bpm16X\_rms vs slug



Right In: 0.035+/-0.000  $\chi^2/\text{NDF}$ : 329227.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

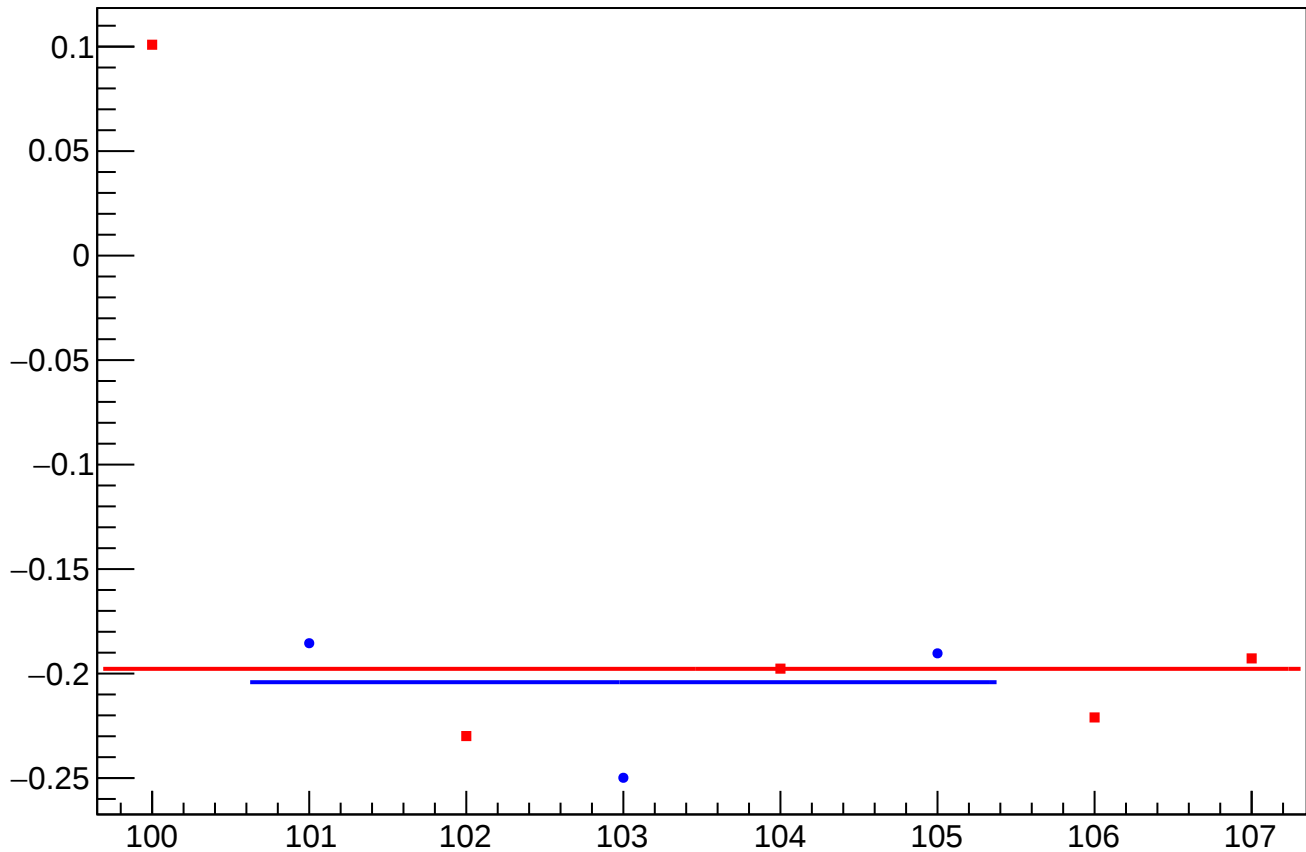
Right Out: 0.040+/-0.000  $\chi^2/\text{NDF}$ : 195126.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.035+/-0.000  $\chi^2/\text{NDF}$ : 329227.0/2

0.040+/-0.000  $\chi^2/\text{NDF}$ : 195126.6/4

# yield\_bpm16Y\_mean vs slug



Right In: -0.204 $\pm$ 0.000  $\chi^2$ /NDF: 30075396.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

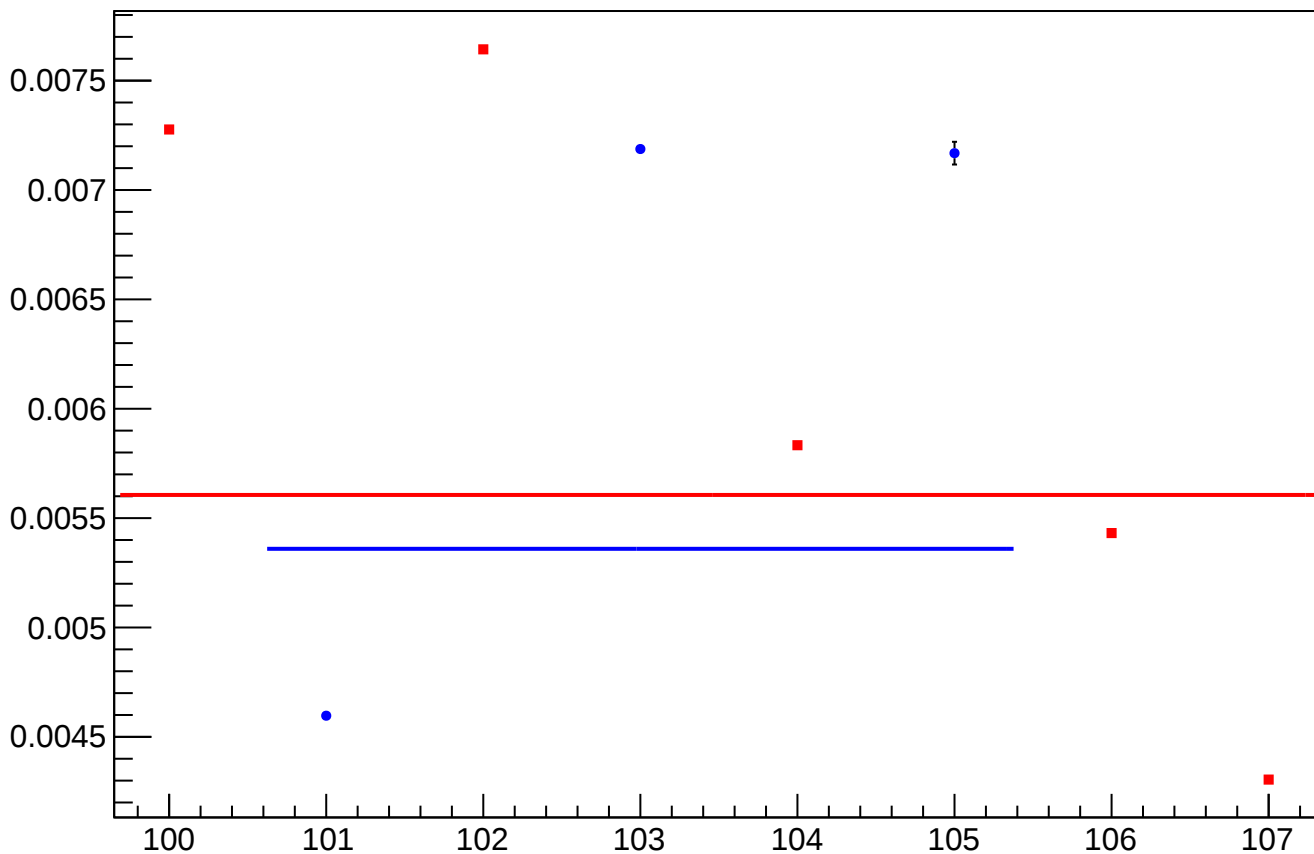
-0.204 $\pm$ 0.000  $\chi^2$ /NDF: 30075396.9/2

Right Out: -0.198 $\pm$ 0.000  $\chi^2$ /NDF: 127985816.5/4

-0.198 $\pm$ 0.000  $\chi^2$ /NDF: 127985816.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm16Y\_rms vs slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 98475.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

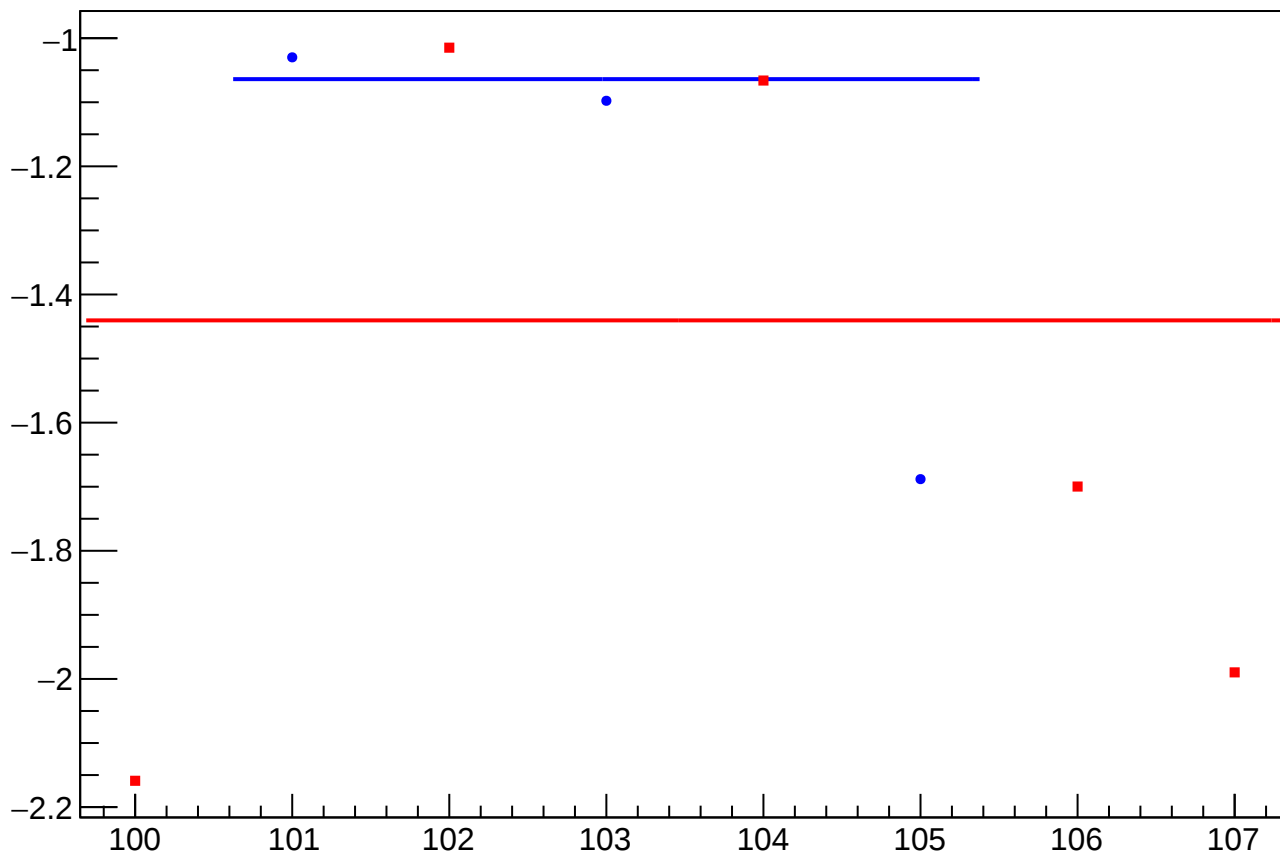
Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 135649.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.005+/-0.000  $\chi^2/\text{NDF}$ : 98475.4/2

0.006+/-0.000  $\chi^2/\text{NDF}$ : 135649.1/4

yield\_bpm0l01X\_mean vs slug



Right In: -1.064+/-0.000  $\chi^2/\text{NDF}$ : 31908015.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

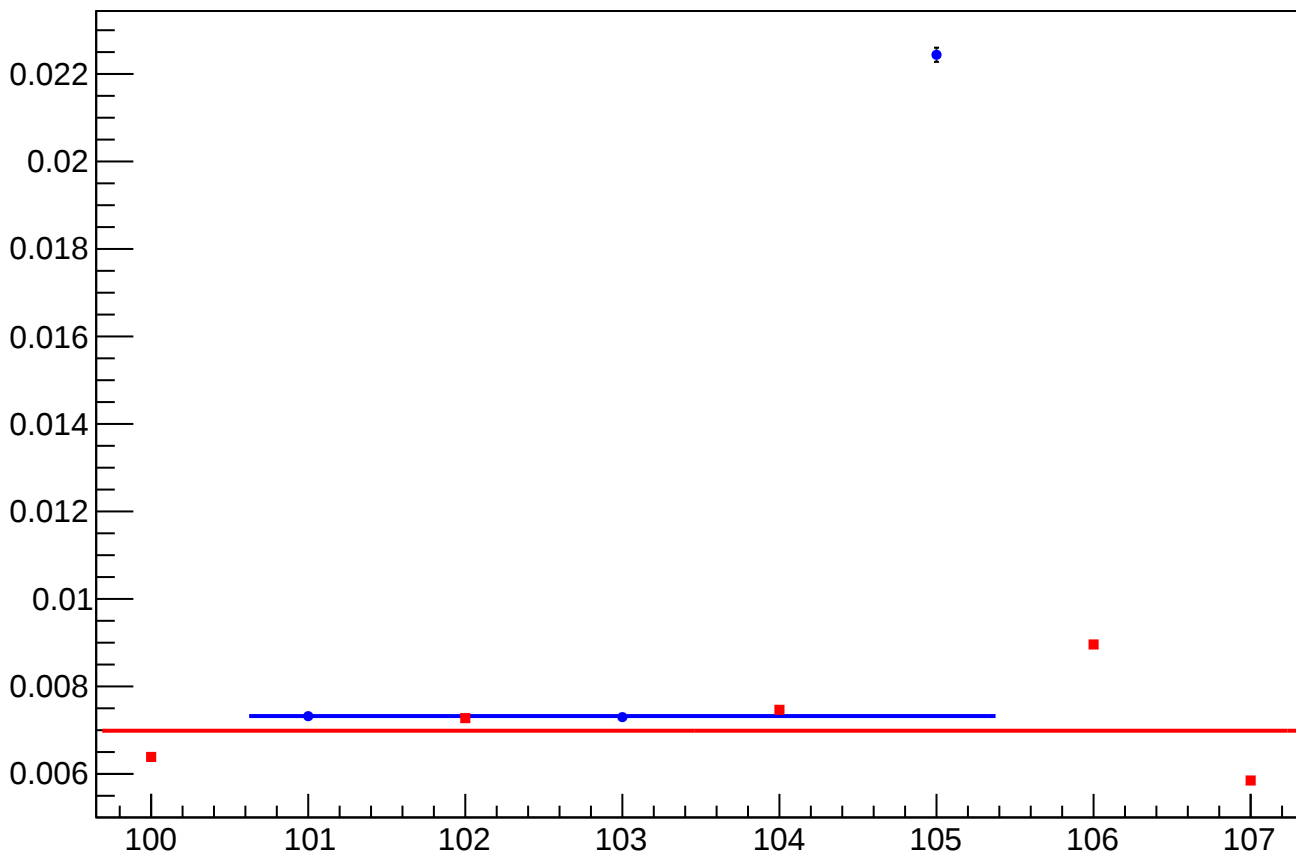
Right Out: -1.440+/-0.000  $\chi^2/\text{NDF}$ : 7231101631.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.064+/-0.000  $\chi^2/\text{NDF}$ : 31908015.8/2

-1.440+/-0.000  $\chi^2/\text{NDF}$ : 7231101631.1/4

# yield\_bpm0l01X\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 8658.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

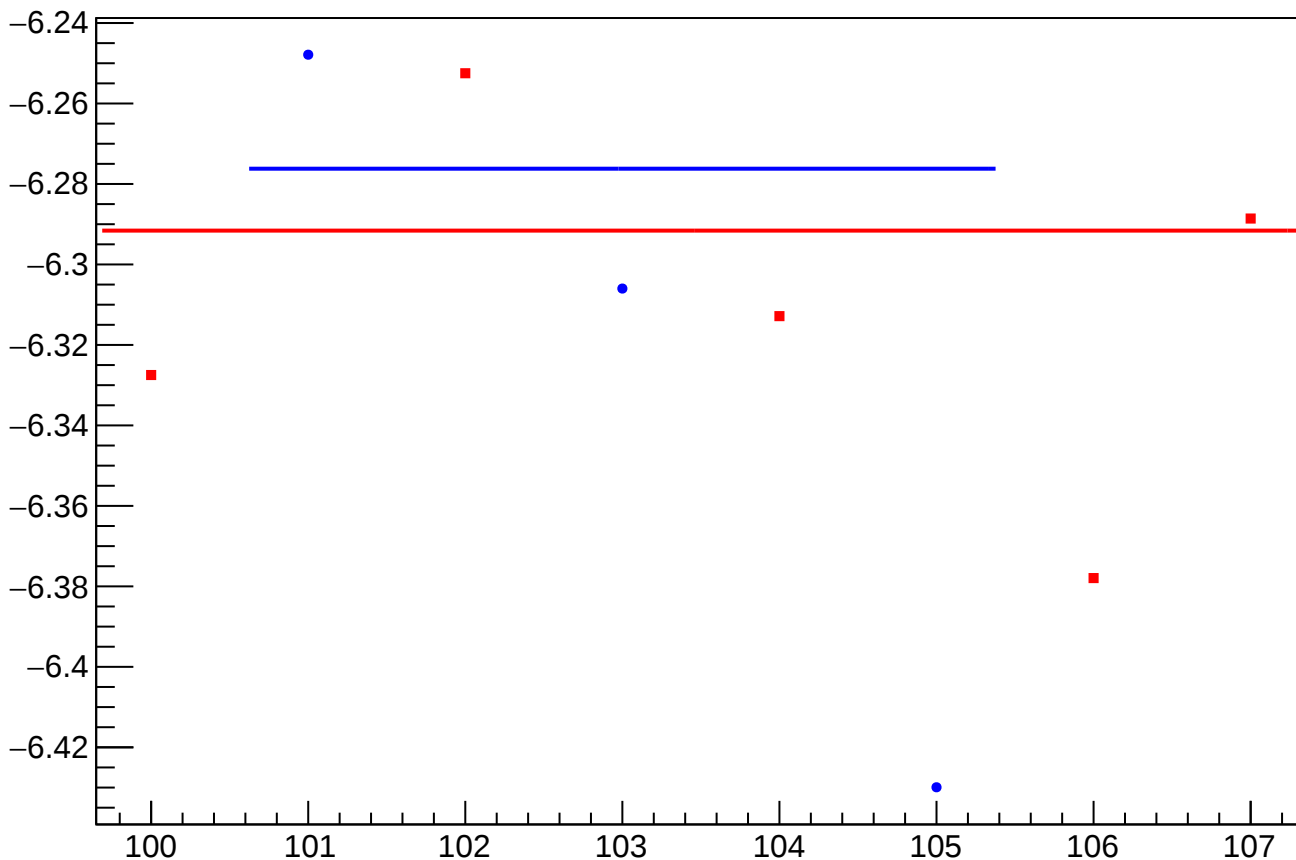
Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 55368.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.007+/-0.000  $\chi^2/\text{NDF}$ : 8658.1/2

0.007+/-0.000  $\chi^2/\text{NDF}$ : 55368.8/4

# yield\_bpm0l01Y\_mean vs slug



Right In: -6.276+/-0.000  $\chi^2/\text{NDF}$ : 35212964.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

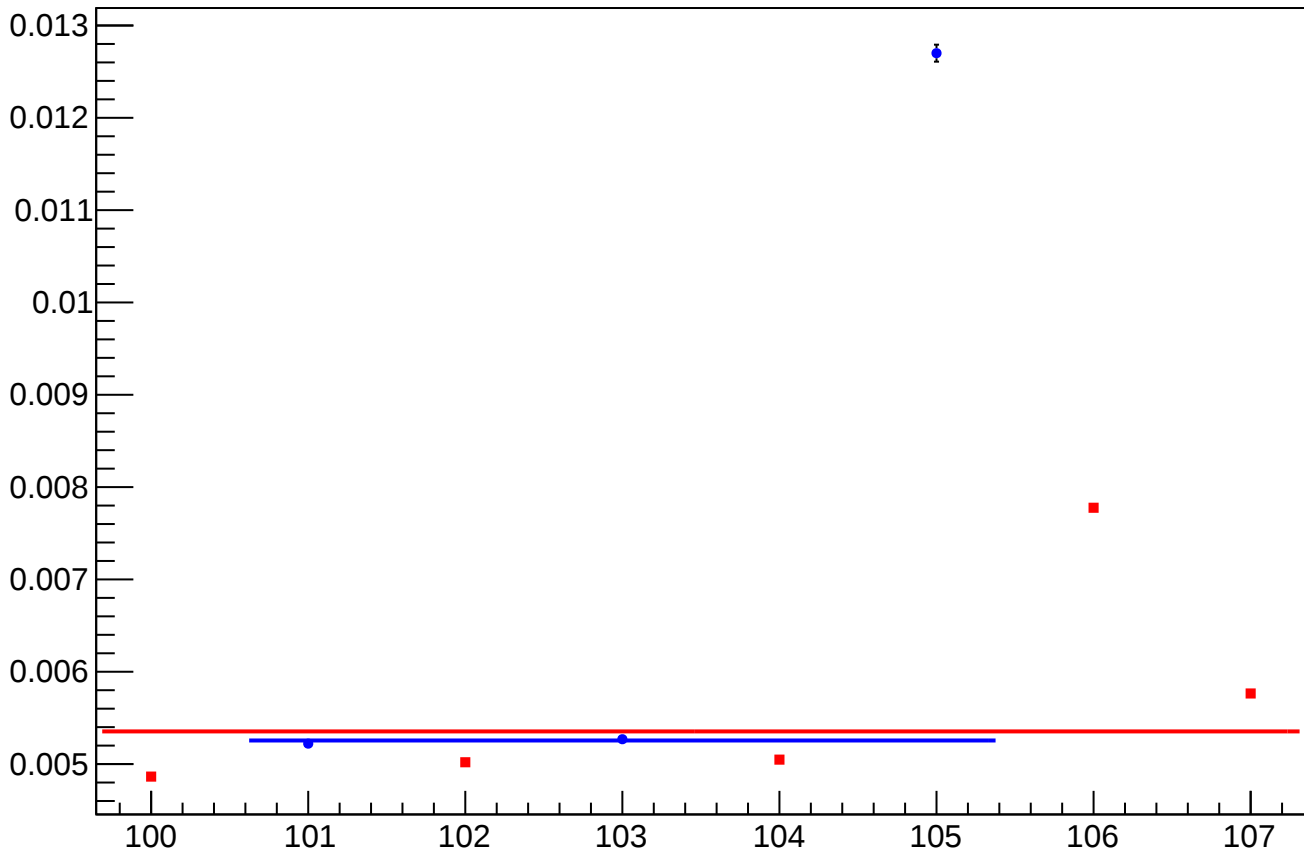
-6.276+/-0.000  $\chi^2/\text{NDF}$ : 35212964.4/2

Right Out: -6.292+/-0.000  $\chi^2/\text{NDF}$ : 74214940.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.292+/-0.000  $\chi^2/\text{NDF}$ : 74214940.3/4

# yield\_bpm0l01Y\_rms vs slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 6601.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

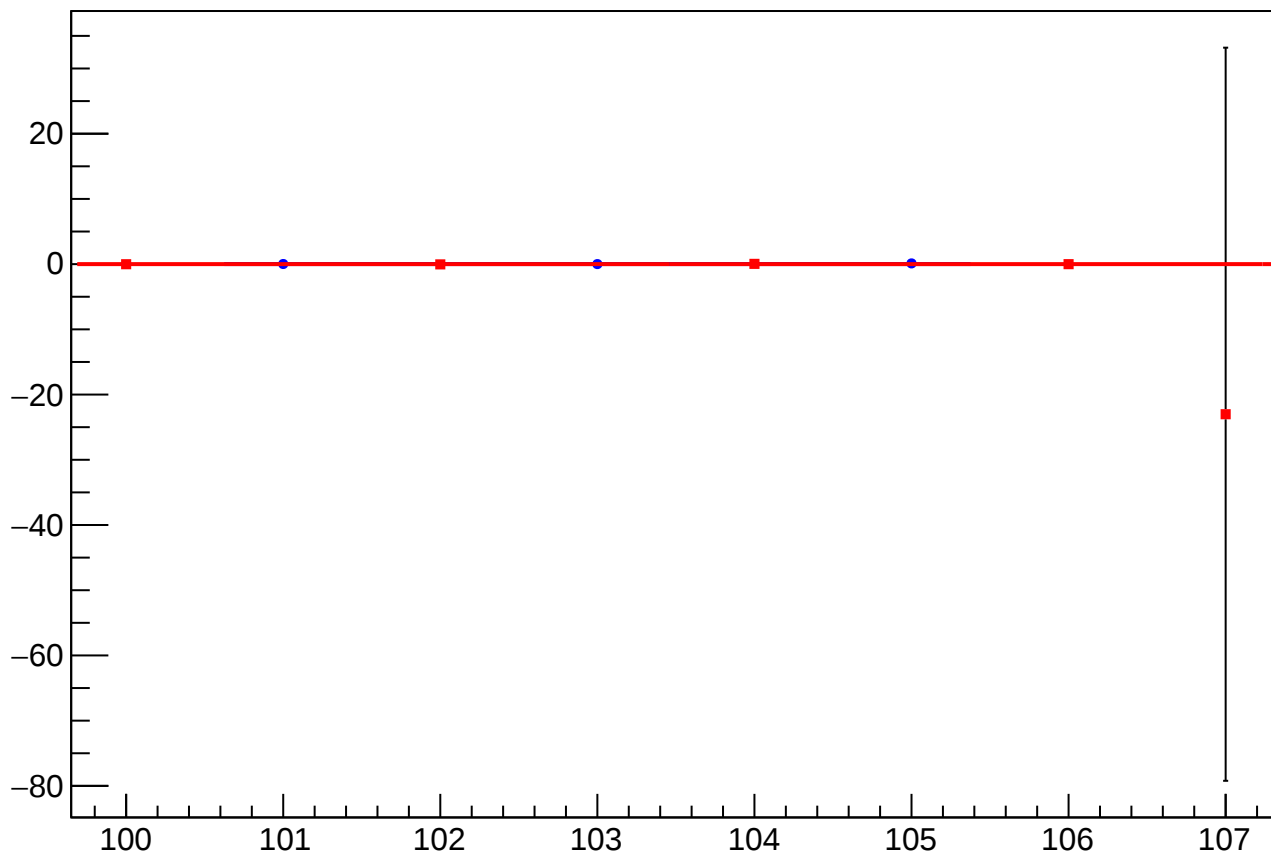
Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 60432.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.005+/-0.000  $\chi^2/\text{NDF}$ : 6601.5/2

0.005+/-0.000  $\chi^2/\text{NDF}$ : 60432.4/4

diff\_cav4bX\_mean vs slug



Right In: 0.014+/-0.017     $\chi^2/\text{NDF}$ : 0.5/2

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

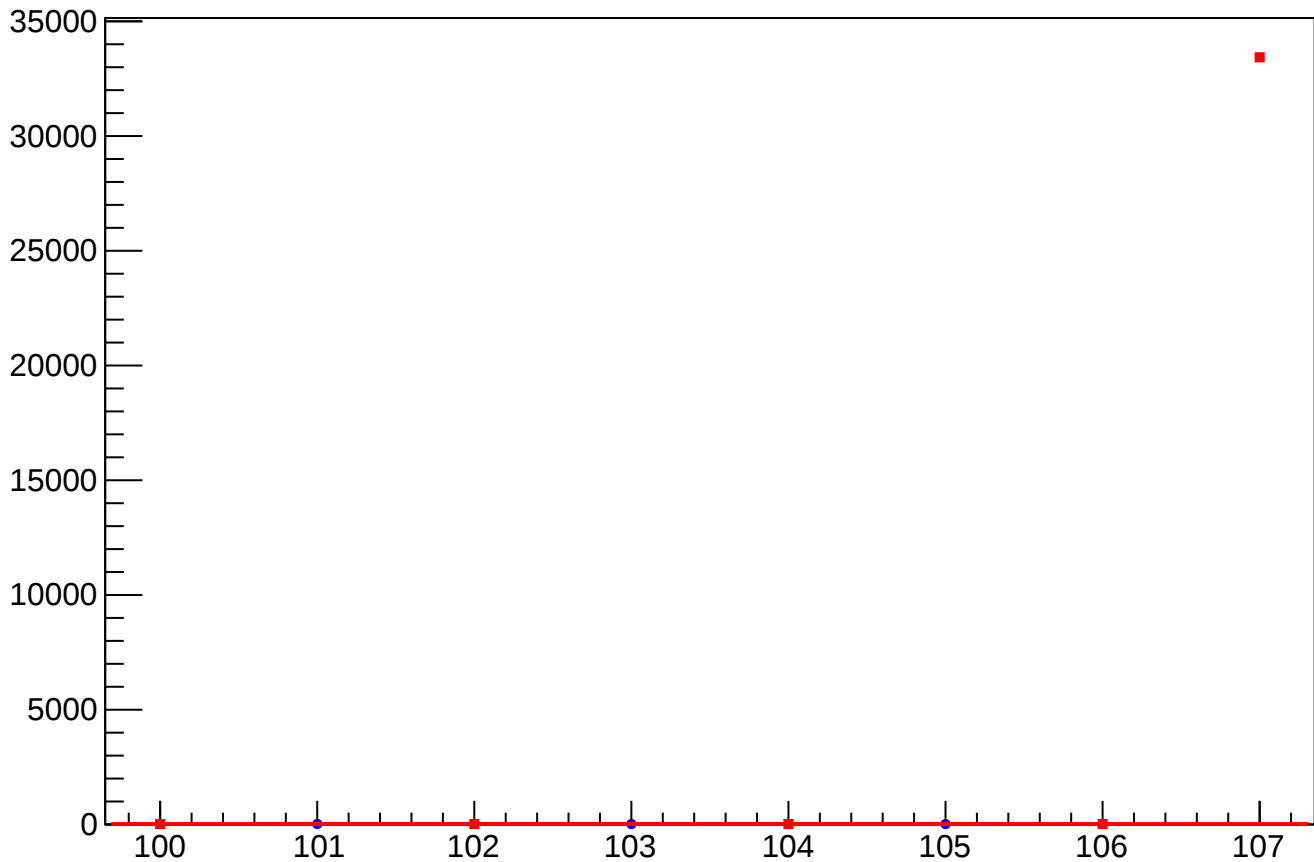
Right Out: 0.003+/-0.016     $\chi^2/\text{NDF}$ : 5.0/4

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.017     $\chi^2/\text{NDF}$ : 0.5/2

0.003+/-0.016     $\chi^2/\text{NDF}$ : 5.0/4

# diff\_cav4bX\_rms vs slug



Right In: 18.526+/-0.012  $\chi^2/\text{NDF}$ : 12535.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

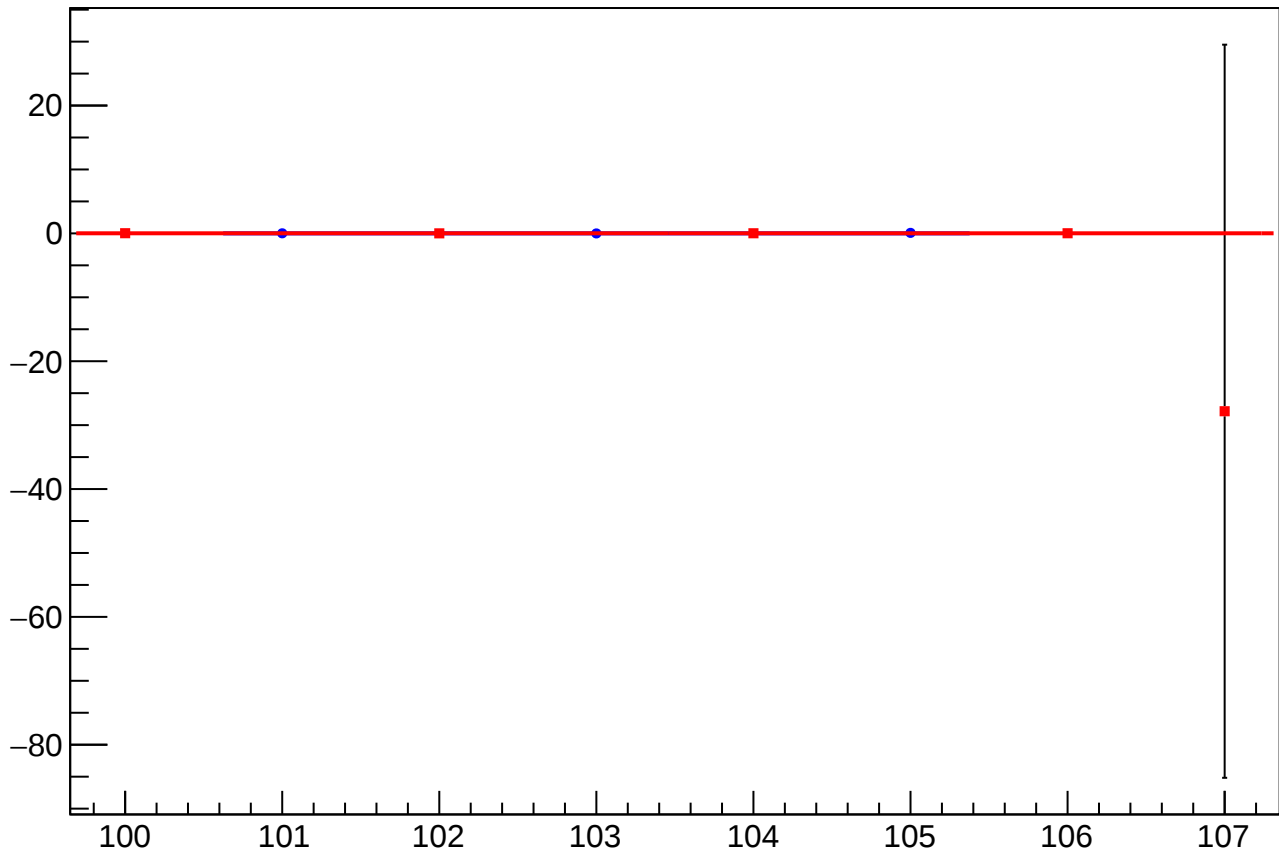
18.526+/-0.012  $\chi^2/\text{NDF}$ : 12535.7/2

Right Out: 18.245+/-0.011  $\chi^2/\text{NDF}$ : 719353.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

18.245+/-0.011  $\chi^2/\text{NDF}$ : 719353.6/4

diff\_cav4bY\_mean vs slug



Right In: 0.002+/-0.009  $\chi^2/\text{NDF}$ : 2.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

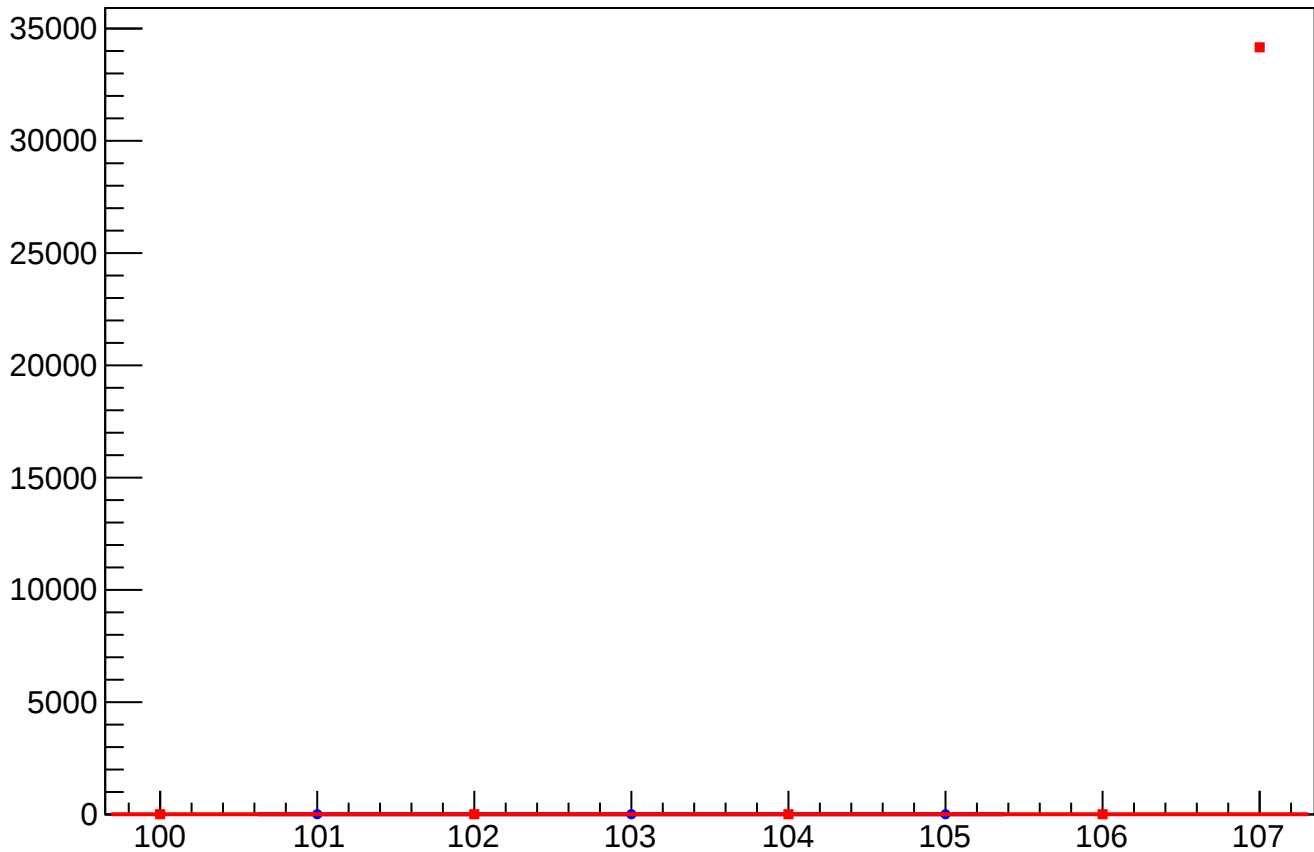
Right Out: 0.014+/-0.009  $\chi^2/\text{NDF}$ : 0.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.002+/-0.009  $\chi^2/\text{NDF}$ : 2.0/2

0.014+/-0.009  $\chi^2/\text{NDF}$ : 0.9/4

# diff\_cav4bY\_rms vs slug



Right In: 9.835+/-0.006  $\chi^2/\text{NDF}$ : 11730.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

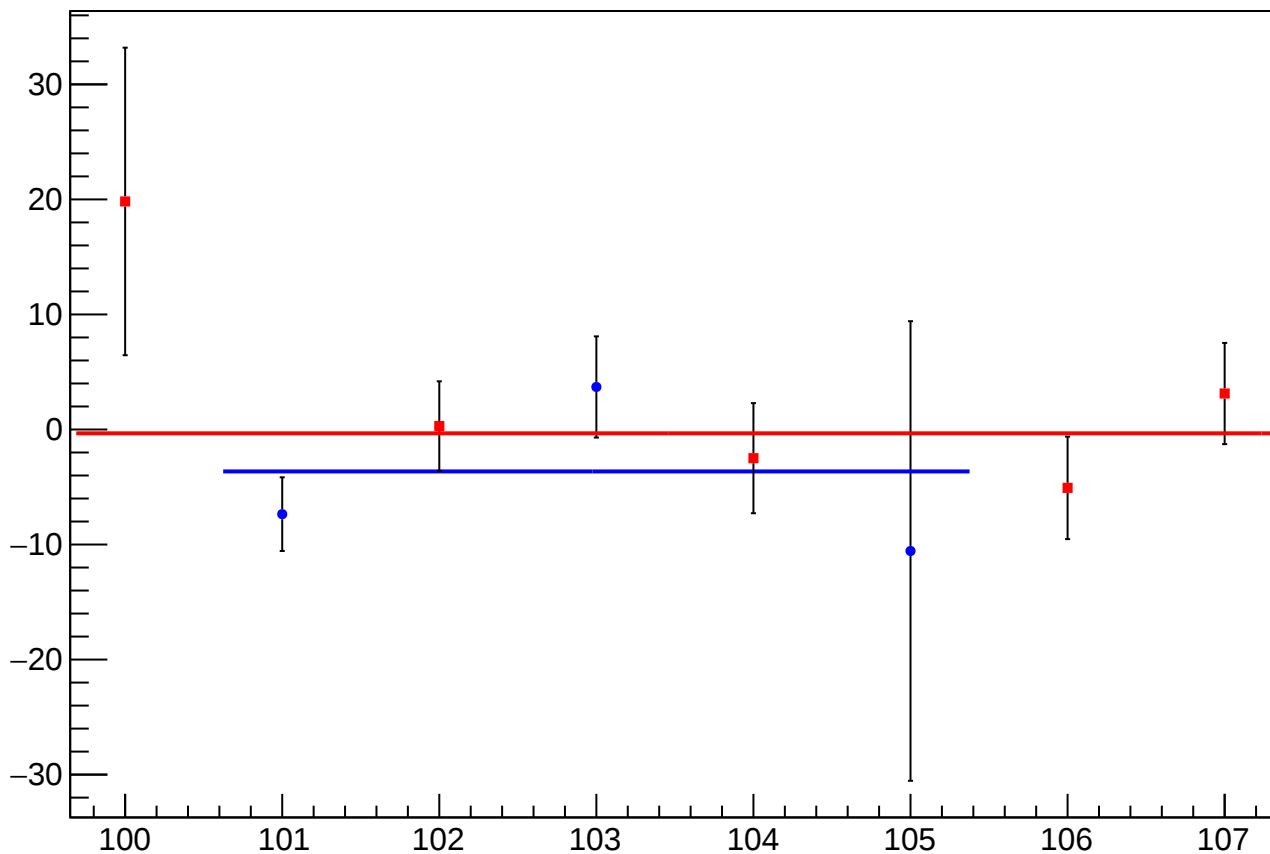
9.835+/-0.006  $\chi^2/\text{NDF}$ : 11730.3/2

Right Out: 9.781+/-0.006  $\chi^2/\text{NDF}$ : 723288.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.781+/-0.006  $\chi^2/\text{NDF}$ : 723288.6/4

# diff\_cav4cX\_mean vs slug



Right In: -3.646+/-2.567  $\chi^2/\text{NDF}$ : 4.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

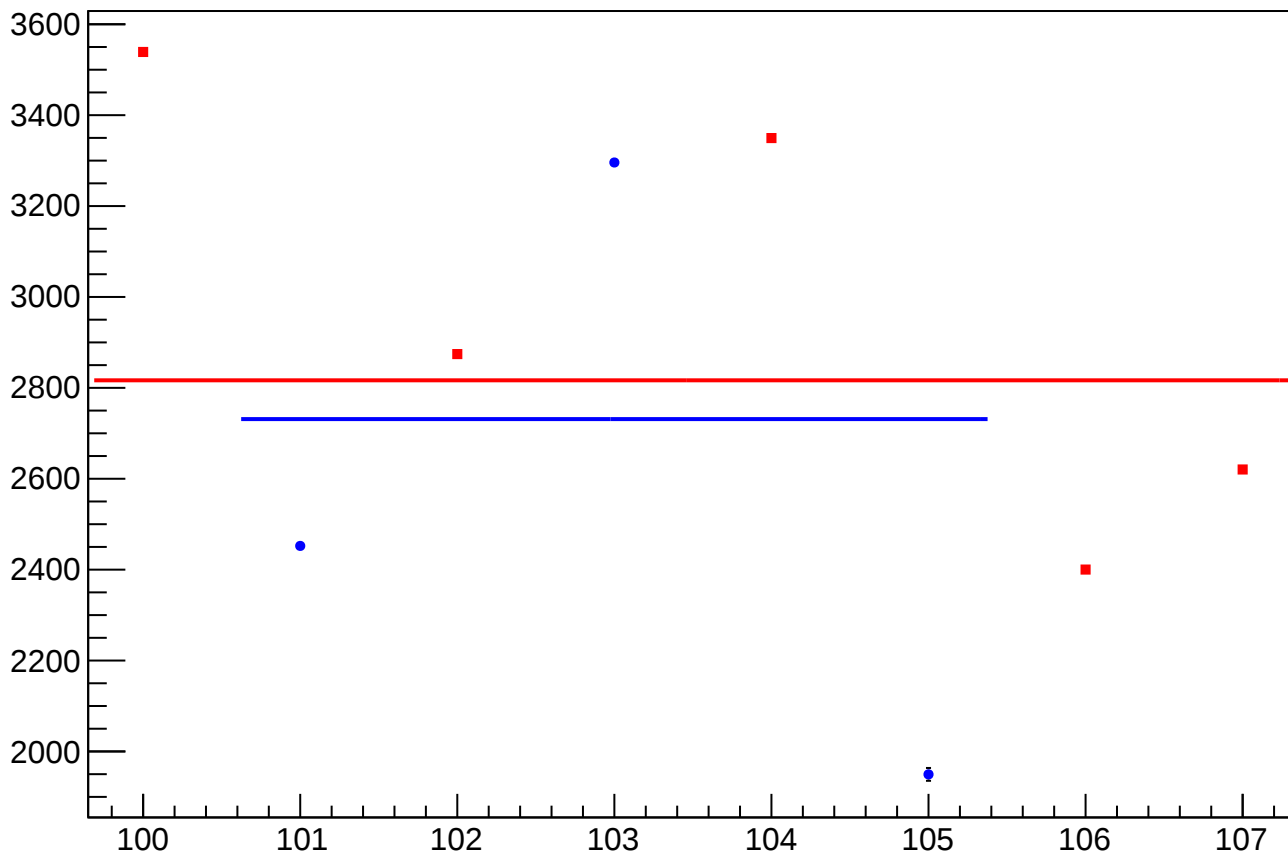
Right Out: -0.333+/-2.145  $\chi^2/\text{NDF}$ : 4.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.646+/-2.567  $\chi^2/\text{NDF}$ : 4.3/2

-0.333+/-2.145  $\chi^2/\text{NDF}$ : 4.3/4

# diff\_cav4cX\_rms vs slug



Right In: 2731.271+/-1.815  $\chi^2/\text{NDF}$ : 51211.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

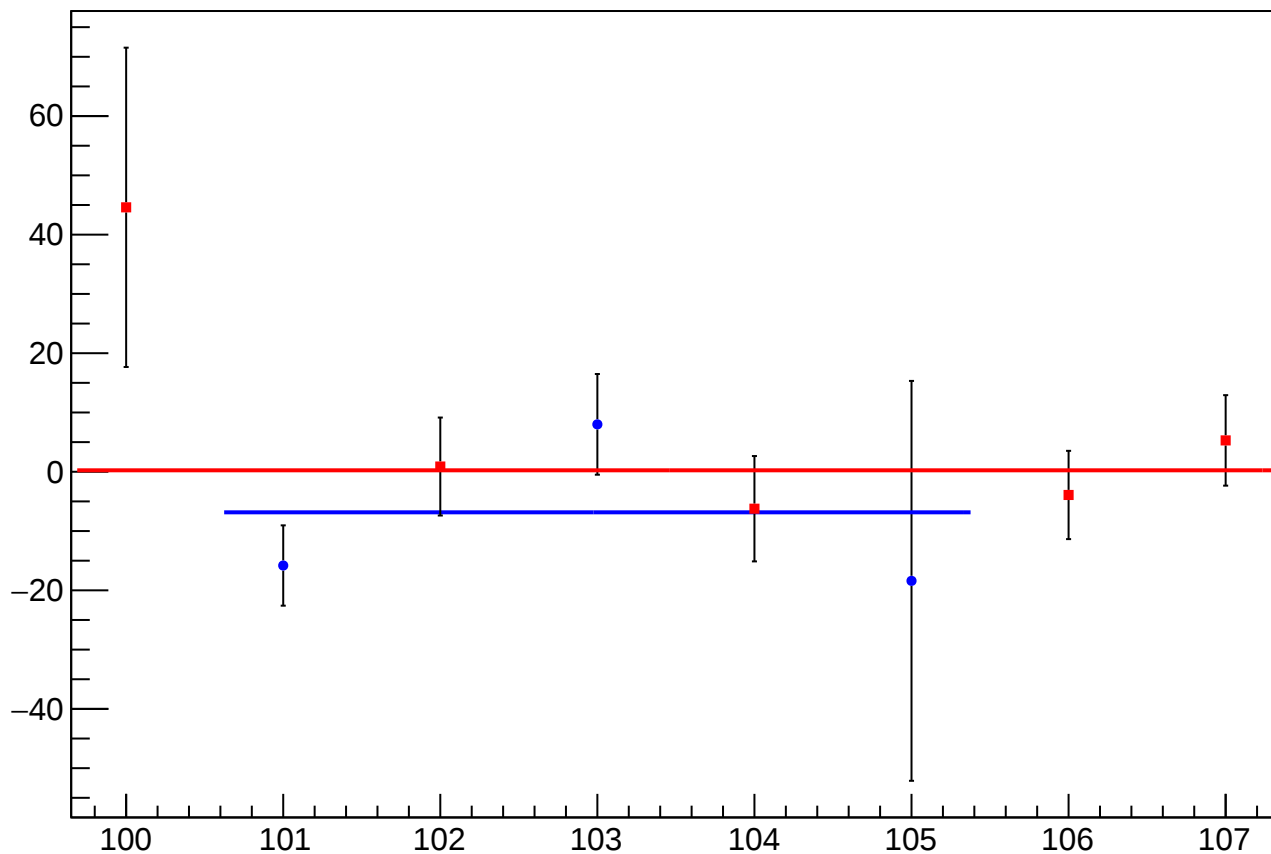
Right Out: 2816.597+/-1.517  $\chi^2/\text{NDF}$ : 52542.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2731.271+/-1.815  $\chi^2/\text{NDF}$ : 51211.8/2

2816.597+/-1.517  $\chi^2/\text{NDF}$ : 52542.9/4

# diff\_cav4cY\_mean vs slug



Right In: -6.842 $\pm$ 5.232  $\chi^2/\text{NDF}$ : 4.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

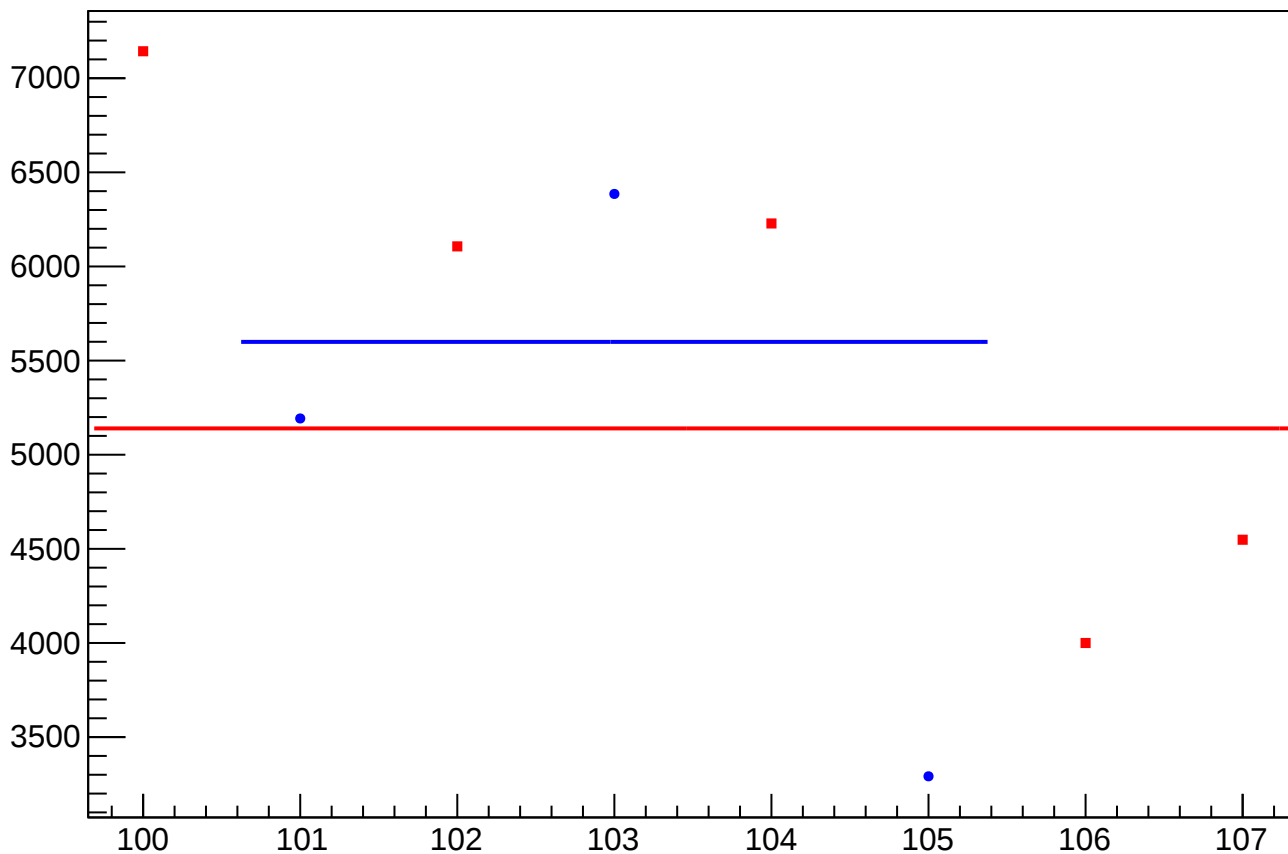
Right Out: 0.246 $\pm$ 3.956  $\chi^2/\text{NDF}$ : 4.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.842 $\pm$ 5.232  $\chi^2/\text{NDF}$ : 4.9/2

0.246 $\pm$ 3.956  $\chi^2/\text{NDF}$ : 4.0/4

# diff\_cav4cY\_rms vs slug



Right In: 5599.429+/-3.699  $\chi^2/\text{NDF}$ : 33700.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

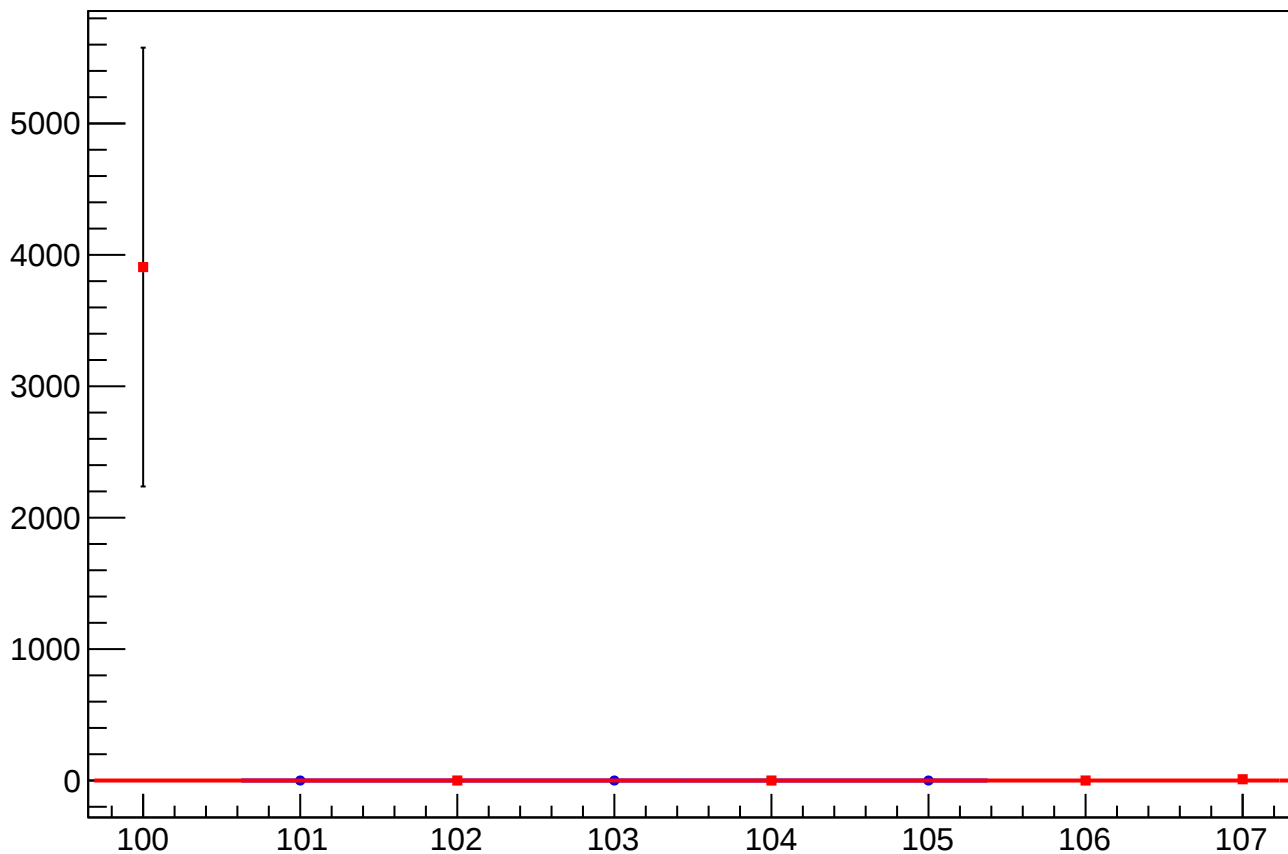
Right Out: 5139.730+/-2.797  $\chi^2/\text{NDF}$ : 127355.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5599.429+/-3.699  $\chi^2/\text{NDF}$ : 33700.2/2

5139.730+/-2.797  $\chi^2/\text{NDF}$ : 127355.3/4

# diff\_cav4dX\_mean vs slug



Right In: -0.023+/-0.021  $\chi^2/\text{NDF}$ : 1.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

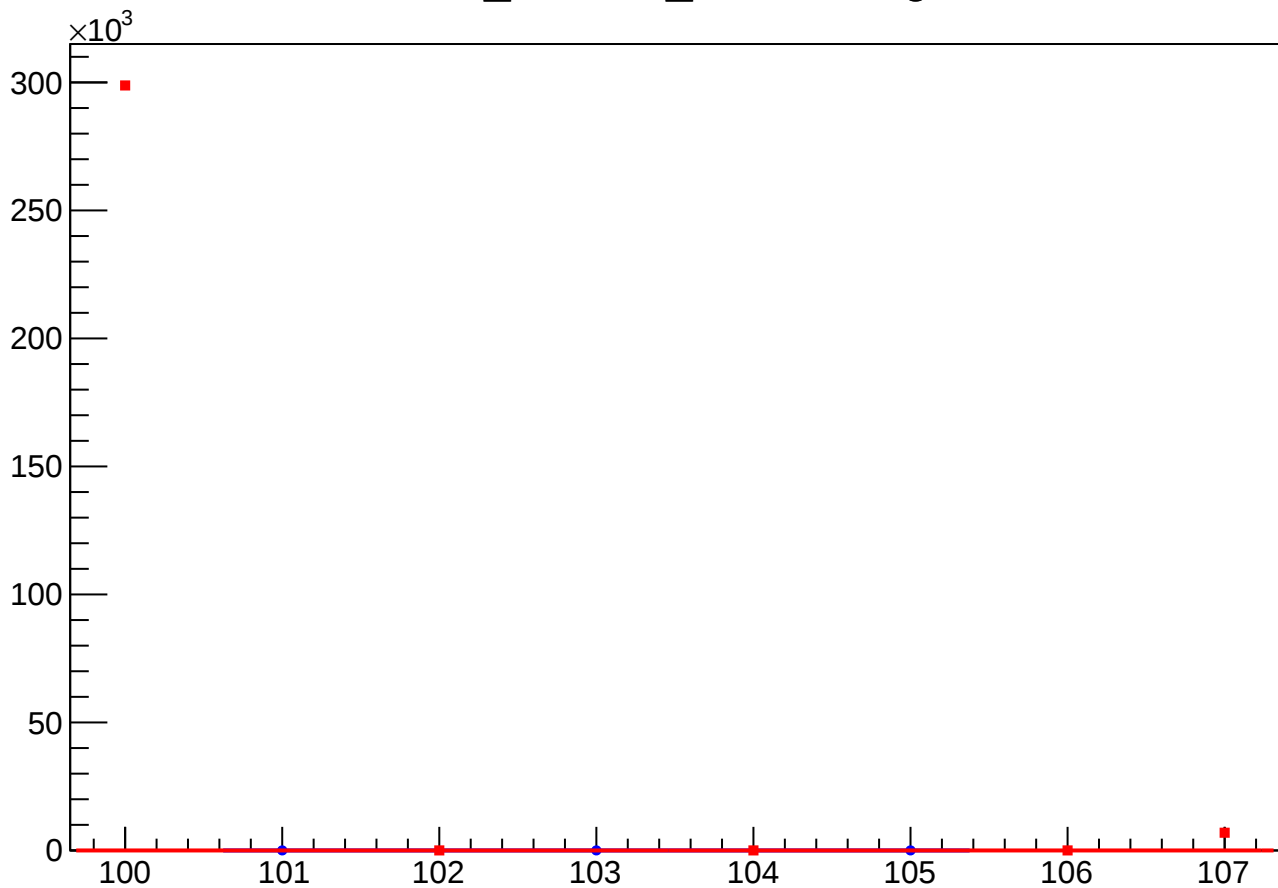
Right Out: -0.026+/-0.020  $\chi^2/\text{NDF}$ : 7.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.023+/-0.021  $\chi^2/\text{NDF}$ : 1.0/2

-0.026+/-0.020  $\chi^2/\text{NDF}$ : 7.0/4

# diff\_cav4dX\_rms vs slug



Right In: 16.894 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 351.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

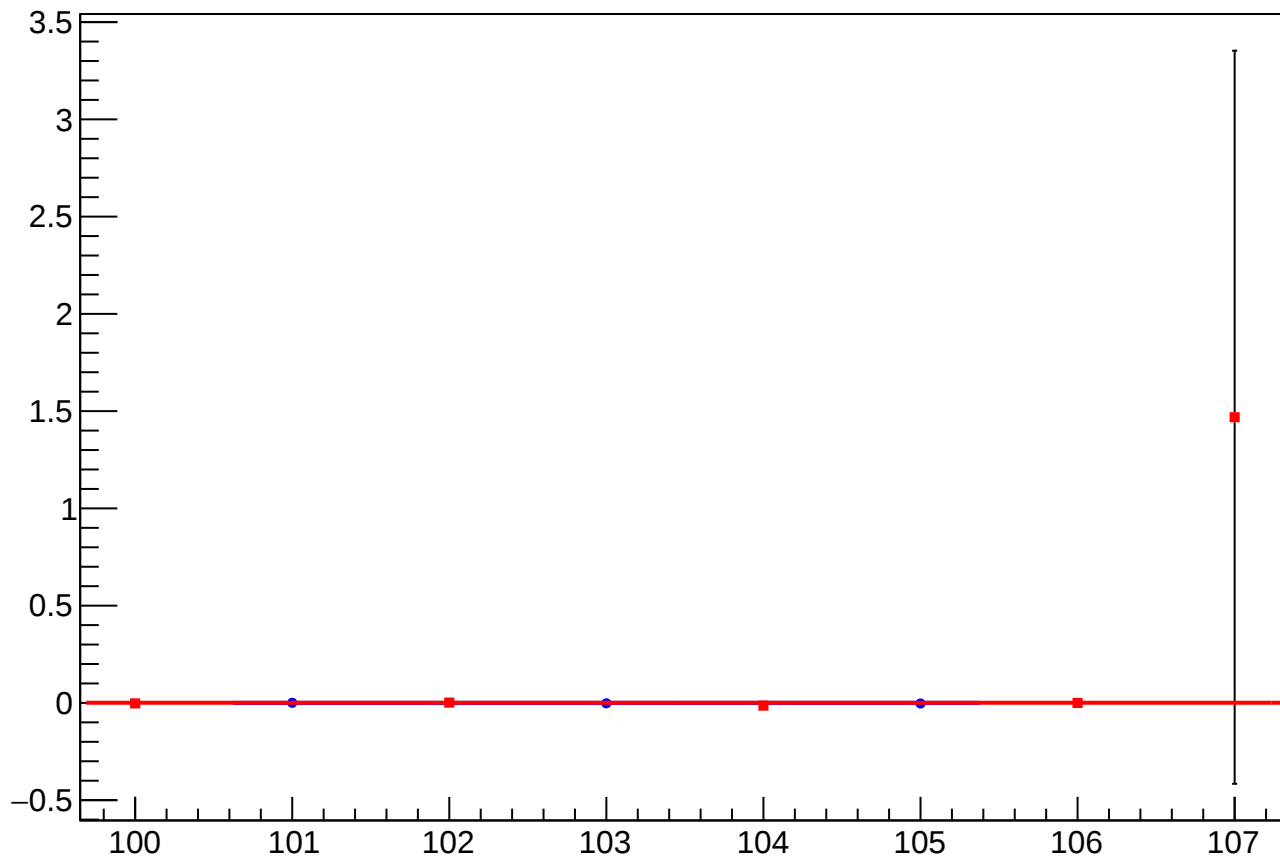
Right Out: 16.952 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 767347.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

16.894 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 351.1/2

16.952 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 767347.7/4

# diff\_cav4dY\_mean vs slug



Right In: 0.000 $\pm$ 0.002  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

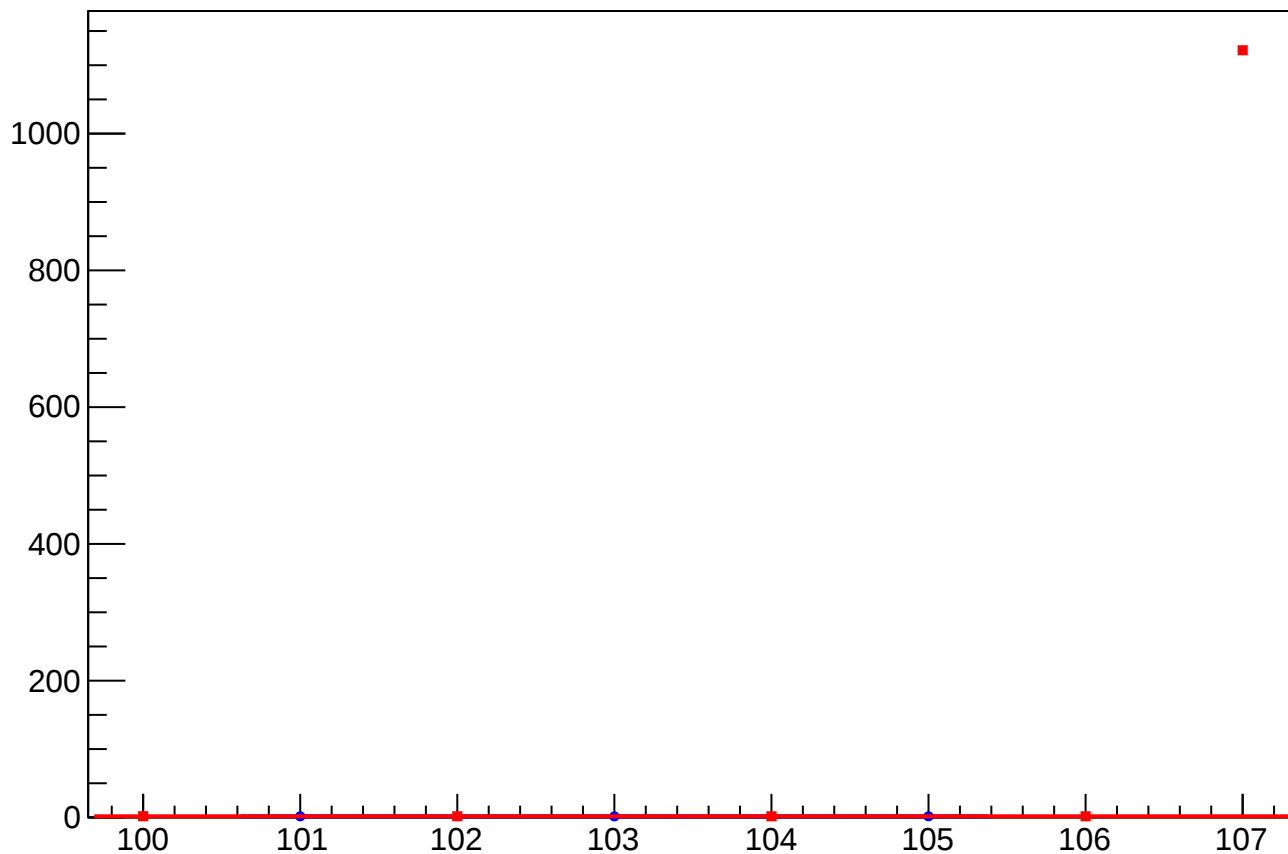
Right Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 1.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.000 $\pm$ 0.002  $\chi^2$ /NDF: 0.2/2

0.001 $\pm$ 0.002  $\chi^2$ /NDF: 1.6/4

# diff\_cav4dY\_rms vs slug



Right In: 1.645 $\pm$ 0.001  $\chi^2$ /NDF: 775.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

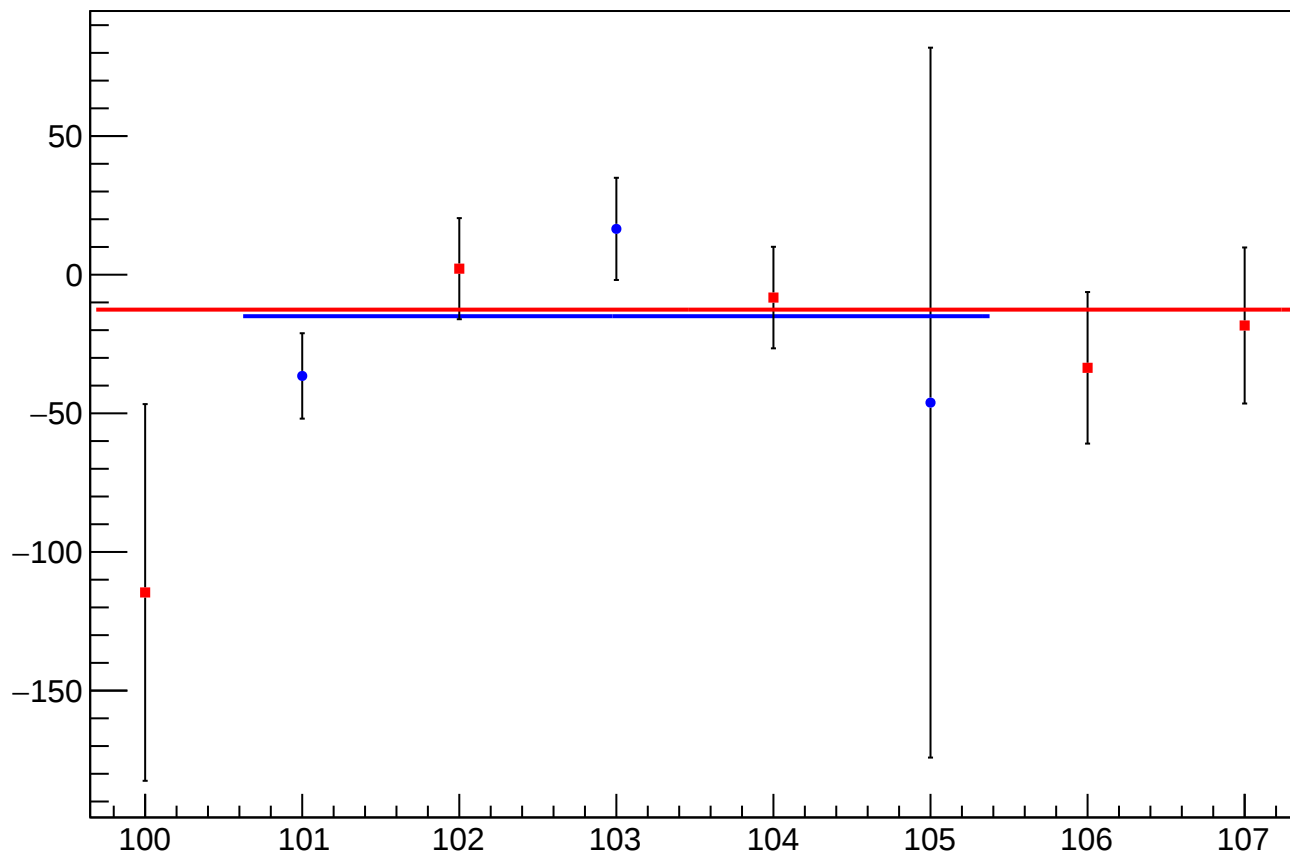
Right Out: 1.681 $\pm$ 0.001  $\chi^2$ /NDF: 706786.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1.645 $\pm$ 0.001  $\chi^2$ /NDF: 775.7/2

1.681 $\pm$ 0.001  $\chi^2$ /NDF: 706786.8/4

diff\_bpm4aX\_mean vs slug



Right In: -14.968+/-11.768  $\chi^2$ /NDF: 4.9/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

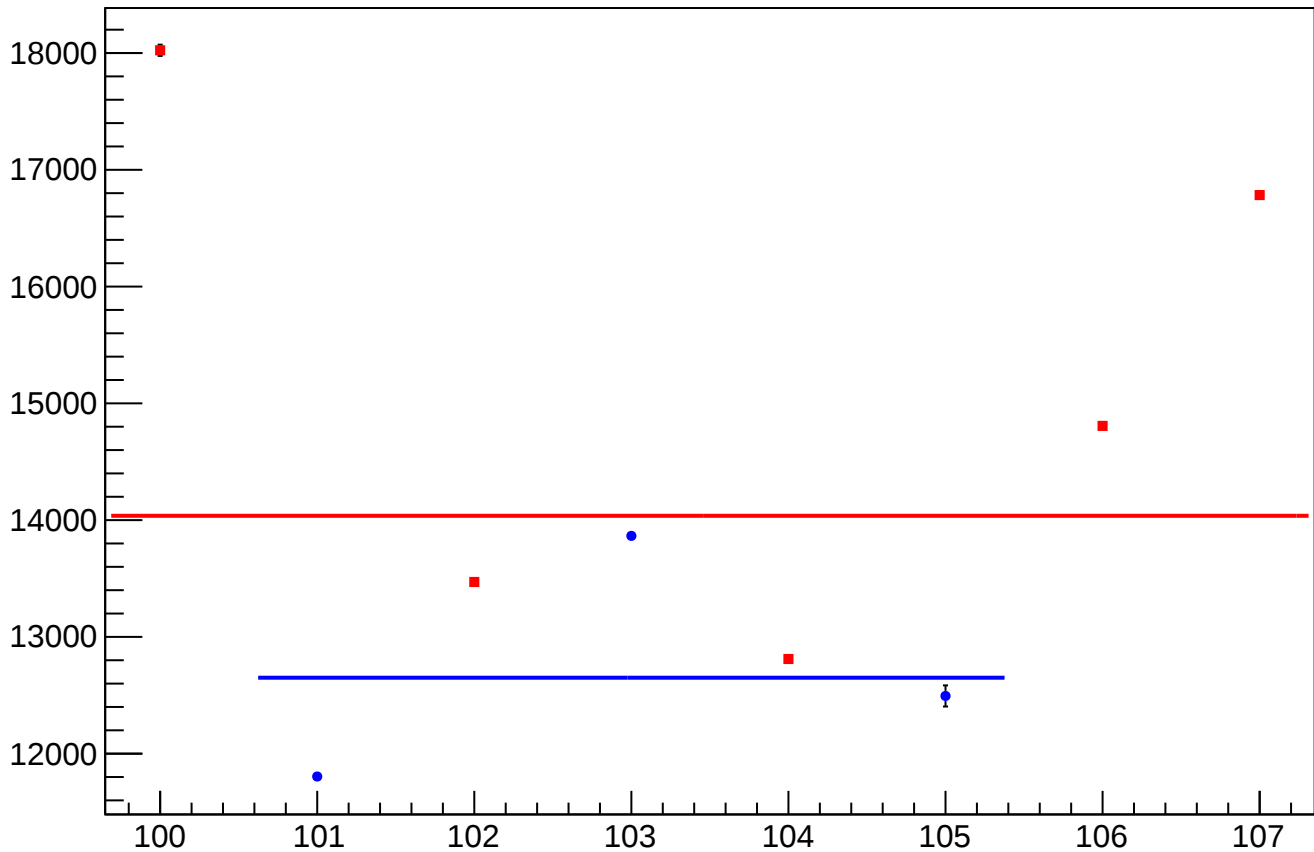
Right Out: -12.597+/-10.654  $\chi^2$ /NDF: 3.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-14.968+/-11.768  $\chi^2$ /NDF: 4.9/2

-12.597+/-10.654  $\chi^2$ /NDF: 3.6/4

# diff\_bpm4aX\_rms vs slug



Right In: 12650.448+/-8.321  $\chi^2/\text{NDF}$ : 14730.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

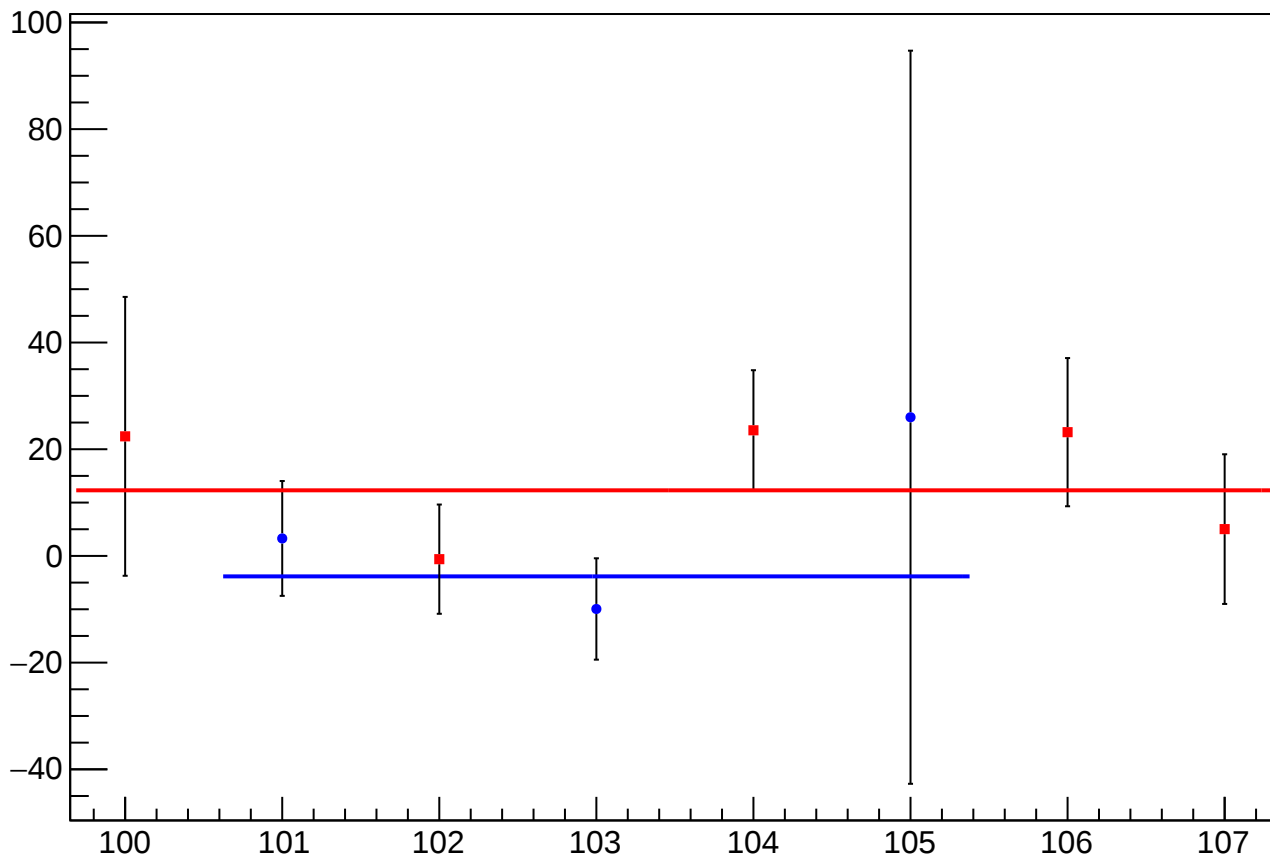
12650.448+/-8.321  $\chi^2/\text{NDF}$ : 14730.4/2

Right Out: 14037.096+/-7.533  $\chi^2/\text{NDF}$ : 38430.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14037.096+/-7.533  $\chi^2/\text{NDF}$ : 38430.5/4

# diff\_bpm4aY\_mean vs slug



Right In: -3.835+/-7.085  $\chi^2/\text{NDF}$ : 1.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

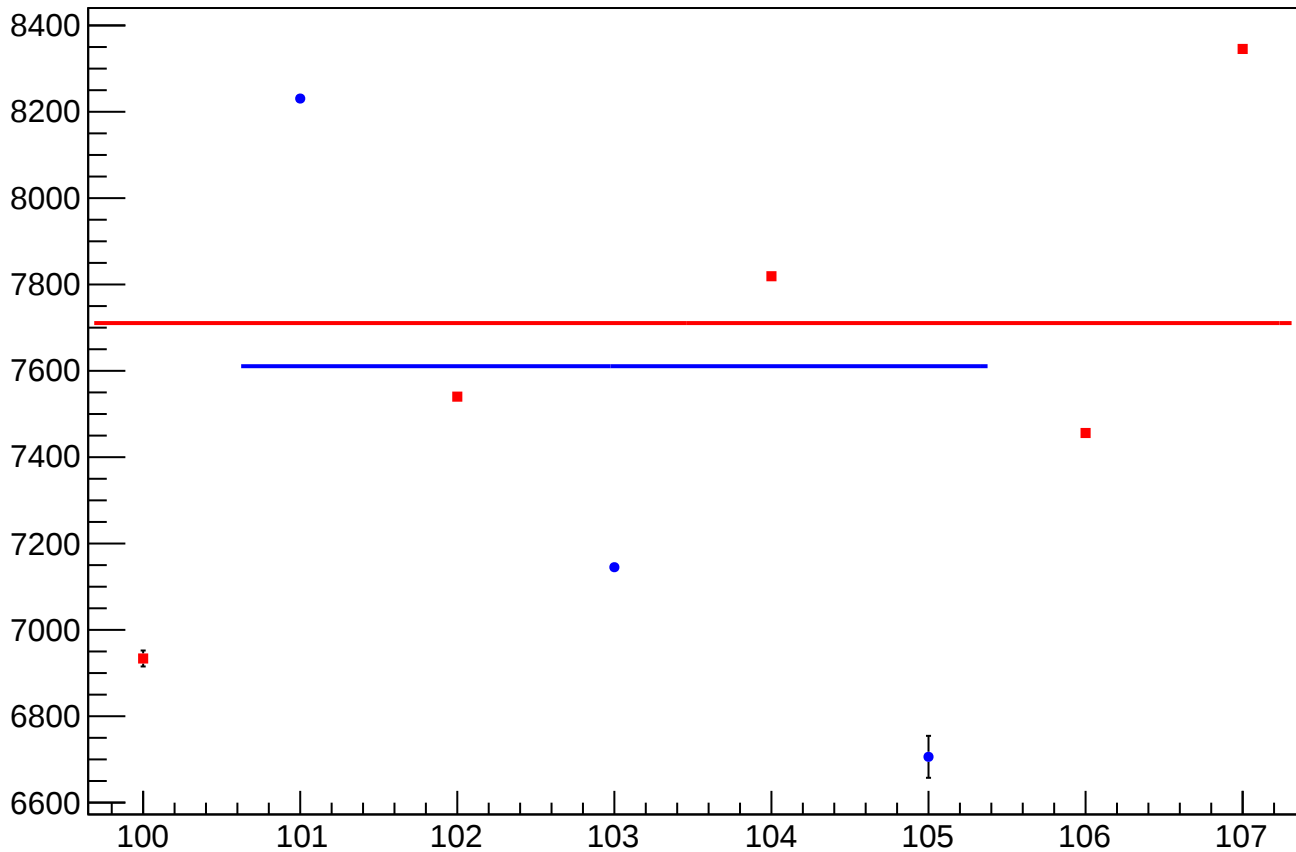
Right Out: 12.297+/-5.857  $\chi^2/\text{NDF}$ : 3.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.835+/-7.085  $\chi^2/\text{NDF}$ : 1.0/2

12.297+/-5.857  $\chi^2/\text{NDF}$ : 3.6/4

# diff\_bpm4aY\_rms vs slug



Right In: 7610.725 $\pm$ 5.010  $\chi^2$ /NDF: 11783.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

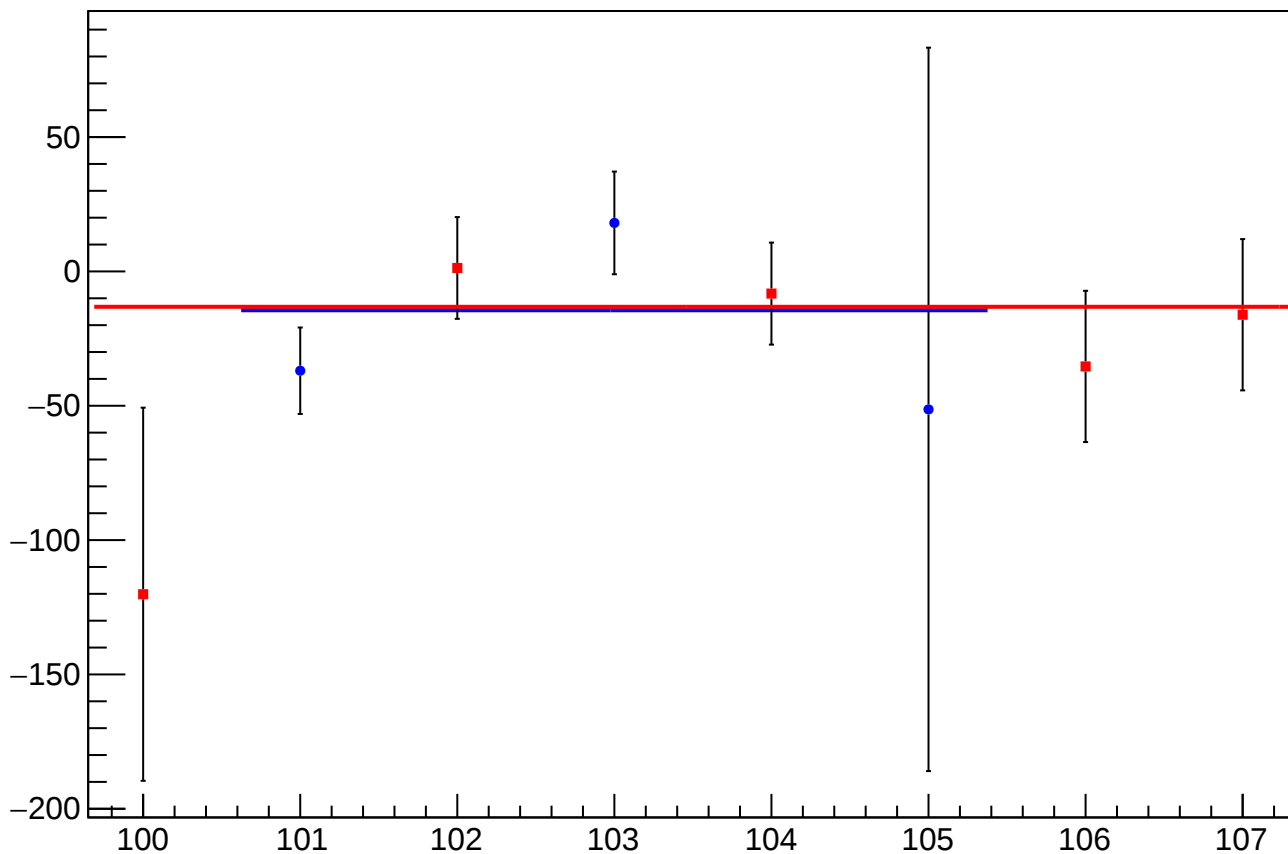
7610.725 $\pm$ 5.010  $\chi^2$ /NDF: 11783.3/2

Right Out: 7710.610 $\pm$ 4.141  $\chi^2$ /NDF: 7275.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7710.610 $\pm$ 4.141  $\chi^2$ /NDF: 7275.3/4

diff\_bpm4eX\_mean vs slug



Right In: -14.452 $\pm$ 12.256  $\chi^2$ /NDF: 4.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

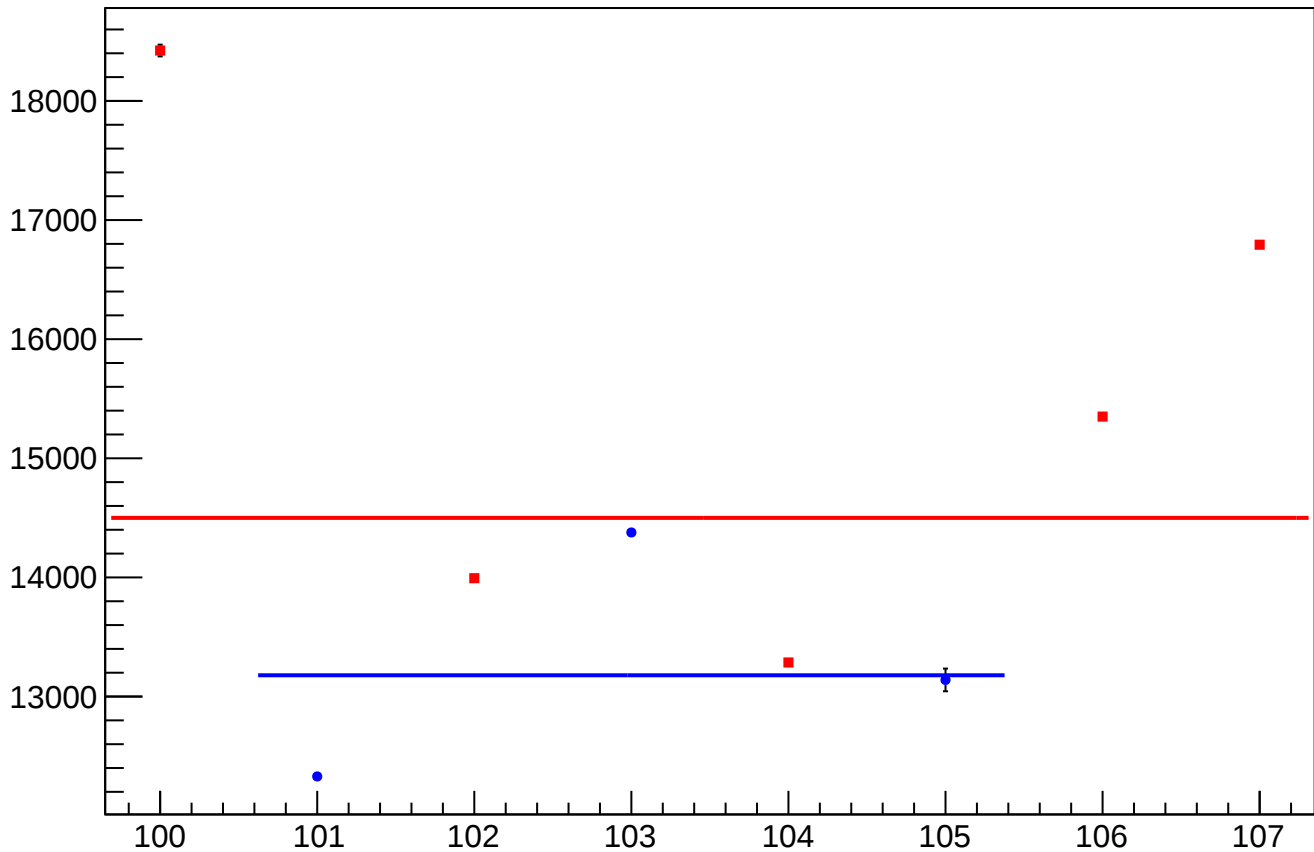
Right Out: -13.165 $\pm$ 10.981  $\chi^2$ /NDF: 3.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-14.452 $\pm$ 12.256  $\chi^2$ /NDF: 4.9/2

-13.165 $\pm$ 10.981  $\chi^2$ /NDF: 3.7/4

# diff\_bpm4eX\_rms vs slug



Right In: 13178.495+/-8.666  $\chi^2/\text{NDF}$ : 13446.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

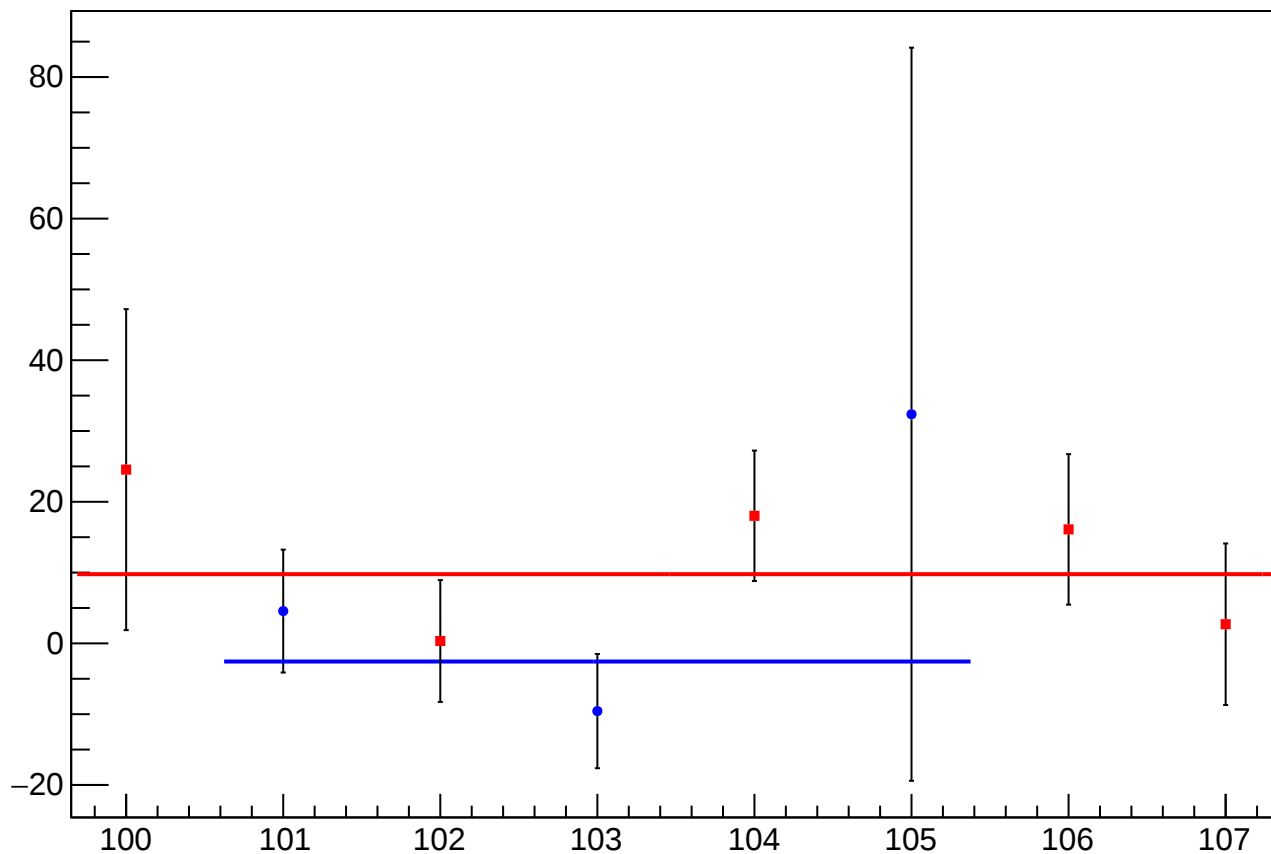
13178.495+/-8.666  $\chi^2/\text{NDF}$ : 13446.7/2

Right Out: 14499.919+/-7.765  $\chi^2/\text{NDF}$ : 31078.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14499.919+/-7.765  $\chi^2/\text{NDF}$ : 31078.9/4

diff\_bpm4eY\_mean vs slug



Right In: -2.563+/-5.871  $\chi^2/\text{NDF}$ : 1.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

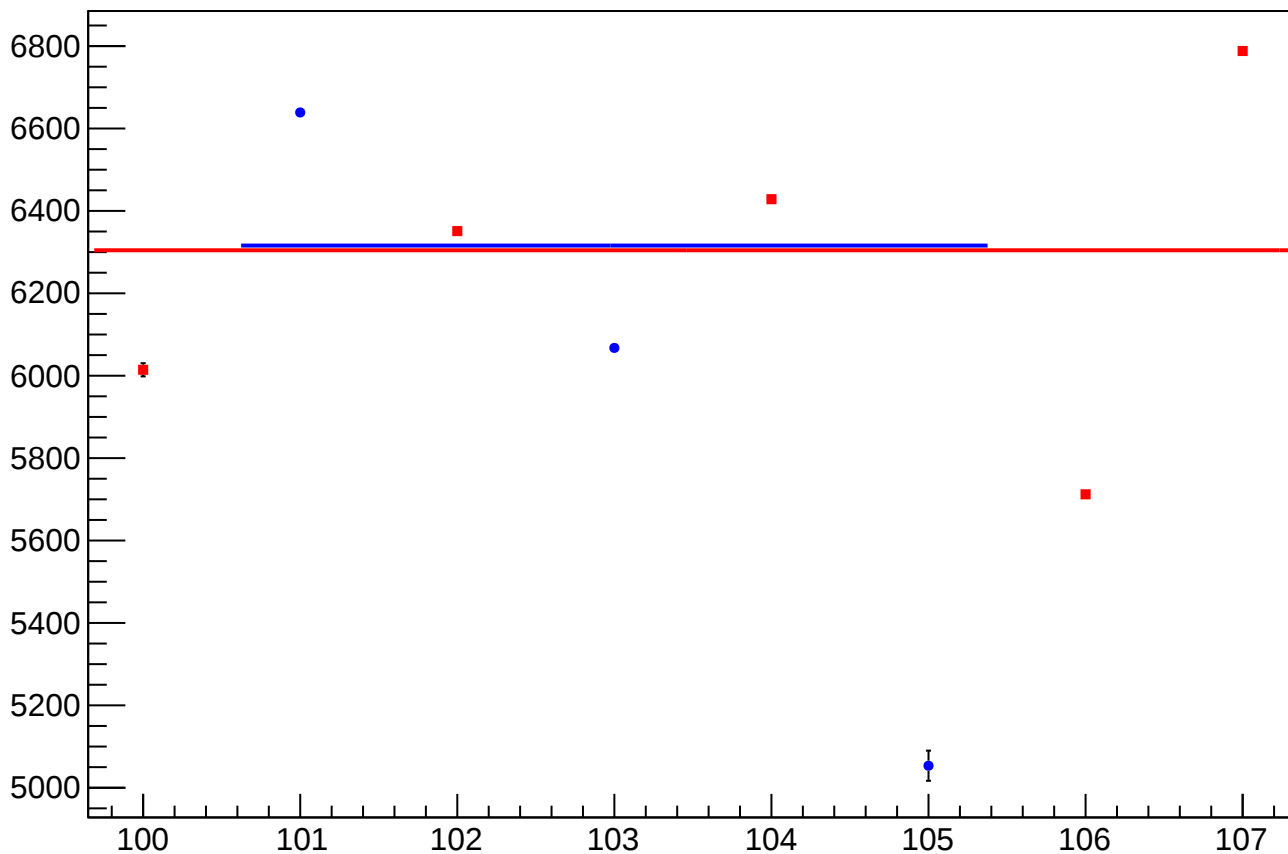
Right Out: 9.776+/-4.780  $\chi^2/\text{NDF}$ : 3.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.563+/-5.871  $\chi^2/\text{NDF}$ : 1.9/2

9.776+/-4.780  $\chi^2/\text{NDF}$ : 3.2/4

# diff\_bpm4eY\_rms vs slug



Right In: 6315.896 $\pm$ 4.152  $\chi^2$ /NDF: 5853.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

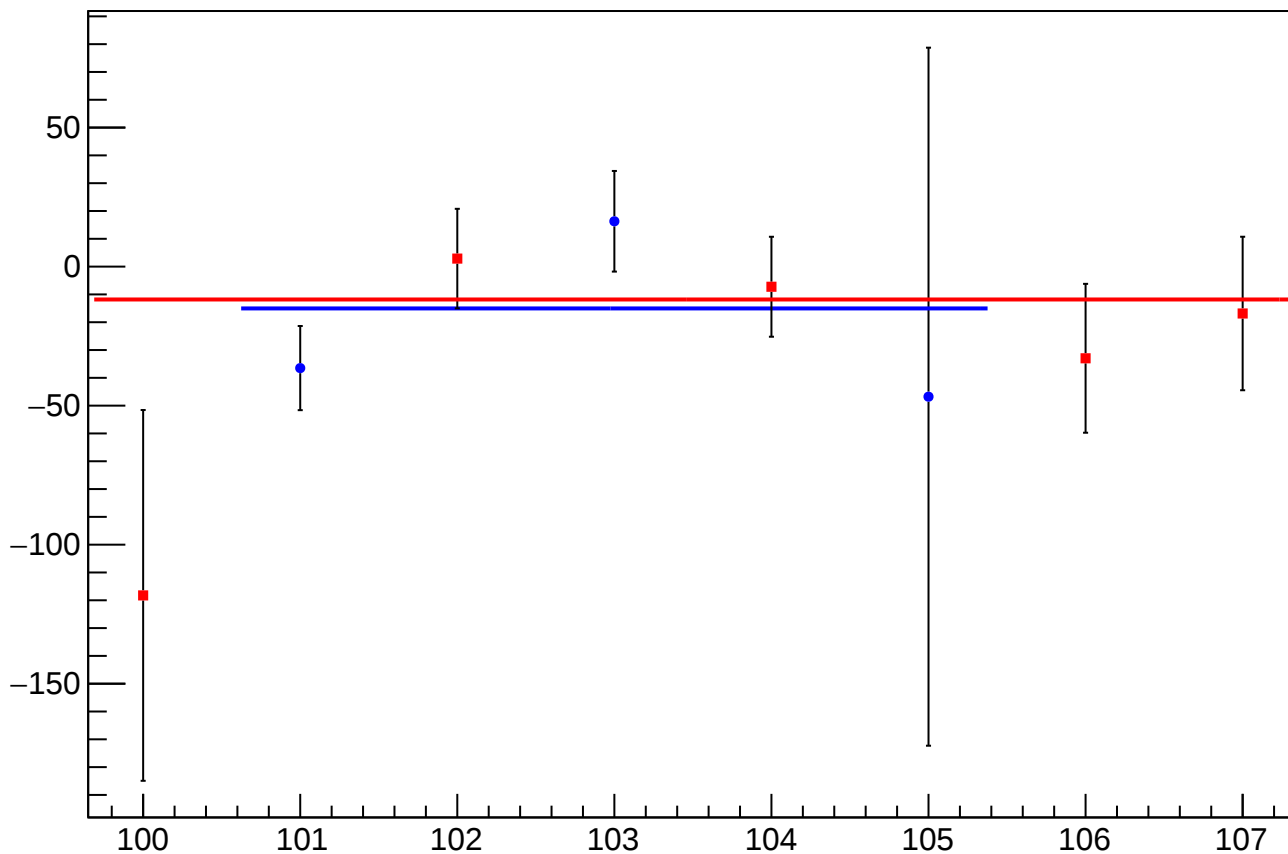
Right Out: 6304.481 $\pm$ 3.380  $\chi^2$ /NDF: 10554.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

6315.896 $\pm$ 4.152  $\chi^2$ /NDF: 5853.8/2

6304.481 $\pm$ 3.380  $\chi^2$ /NDF: 10554.2/4

diff\_bpm4acX\_mean vs slug



Right In: -15.042 $\pm$ 11.559  $\chi^2$ /NDF: 5.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

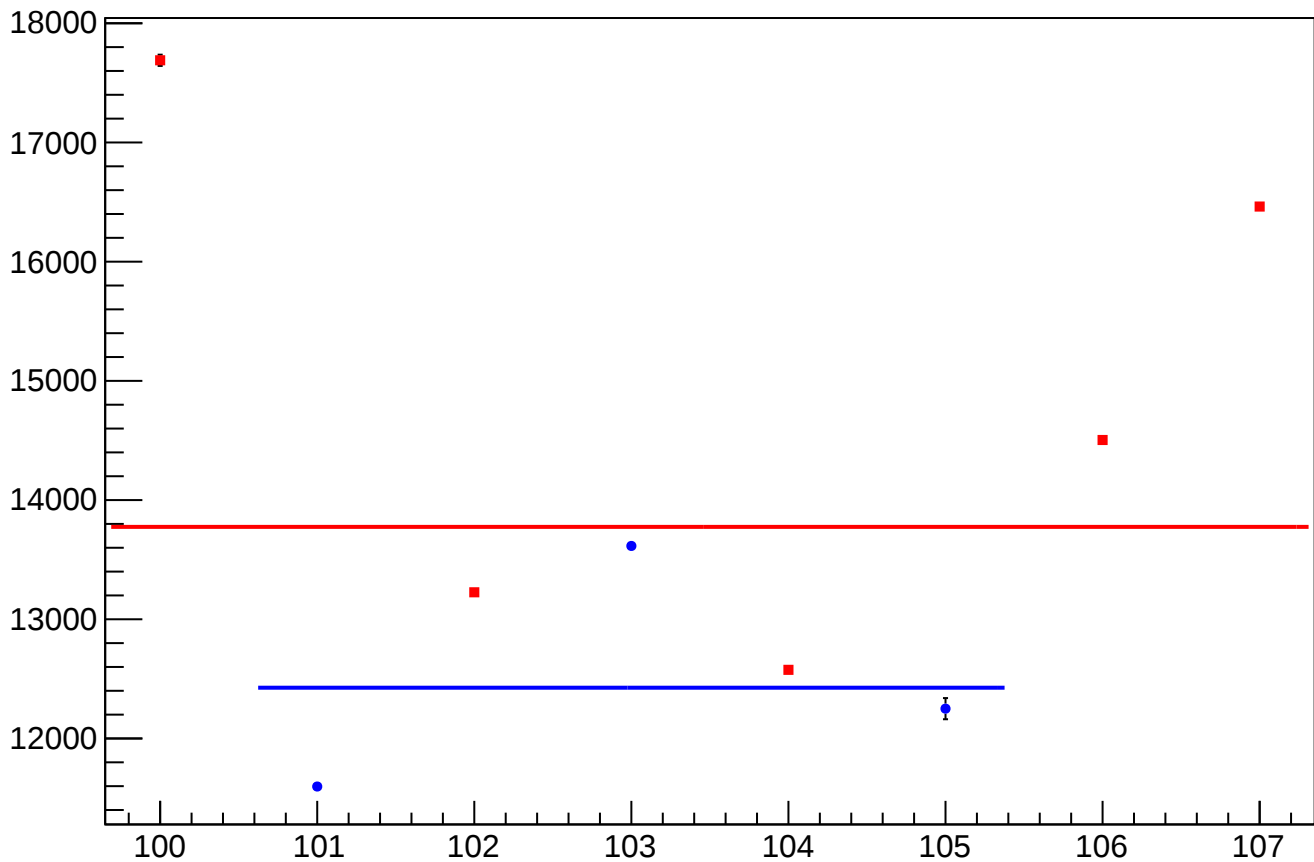
Right Out: -11.822 $\pm$ 10.455  $\chi^2$ /NDF: 3.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-15.042 $\pm$ 11.559  $\chi^2$ /NDF: 5.1/2

-11.822 $\pm$ 10.455  $\chi^2$ /NDF: 3.9/4

# diff\_bpm4acX\_rms vs slug



Right In: 12425.937+/-8.173  $\chi^2/\text{NDF}$ : 14646.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

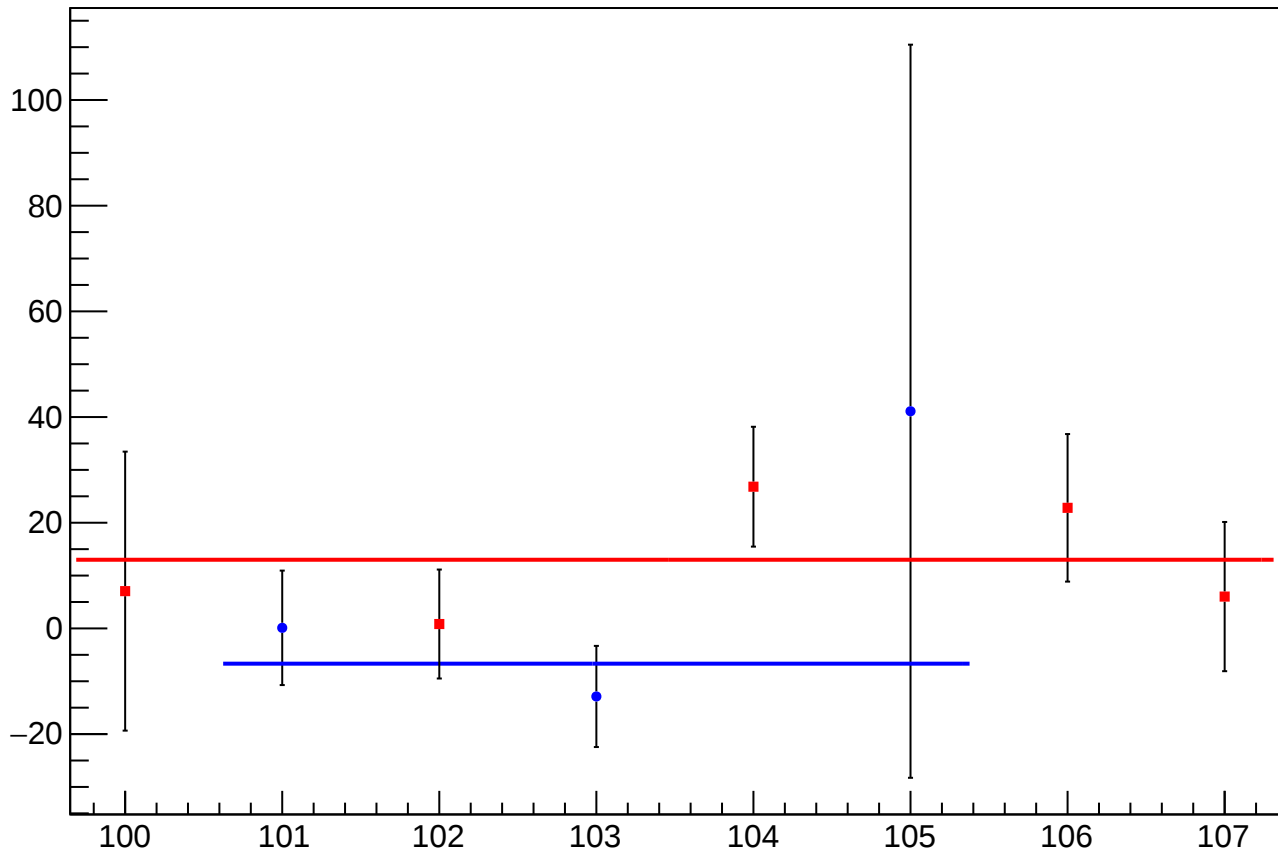
12425.937+/-8.173  $\chi^2/\text{NDF}$ : 14646.2/2

Right Out: 13775.156+/-7.393  $\chi^2/\text{NDF}$ : 38117.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13775.156+/-7.393  $\chi^2/\text{NDF}$ : 38117.8/4

diff\_bpm4acY\_mean vs slug



Right In: -6.672+/-7.134  $\chi^2/\text{NDF}$ : 1.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

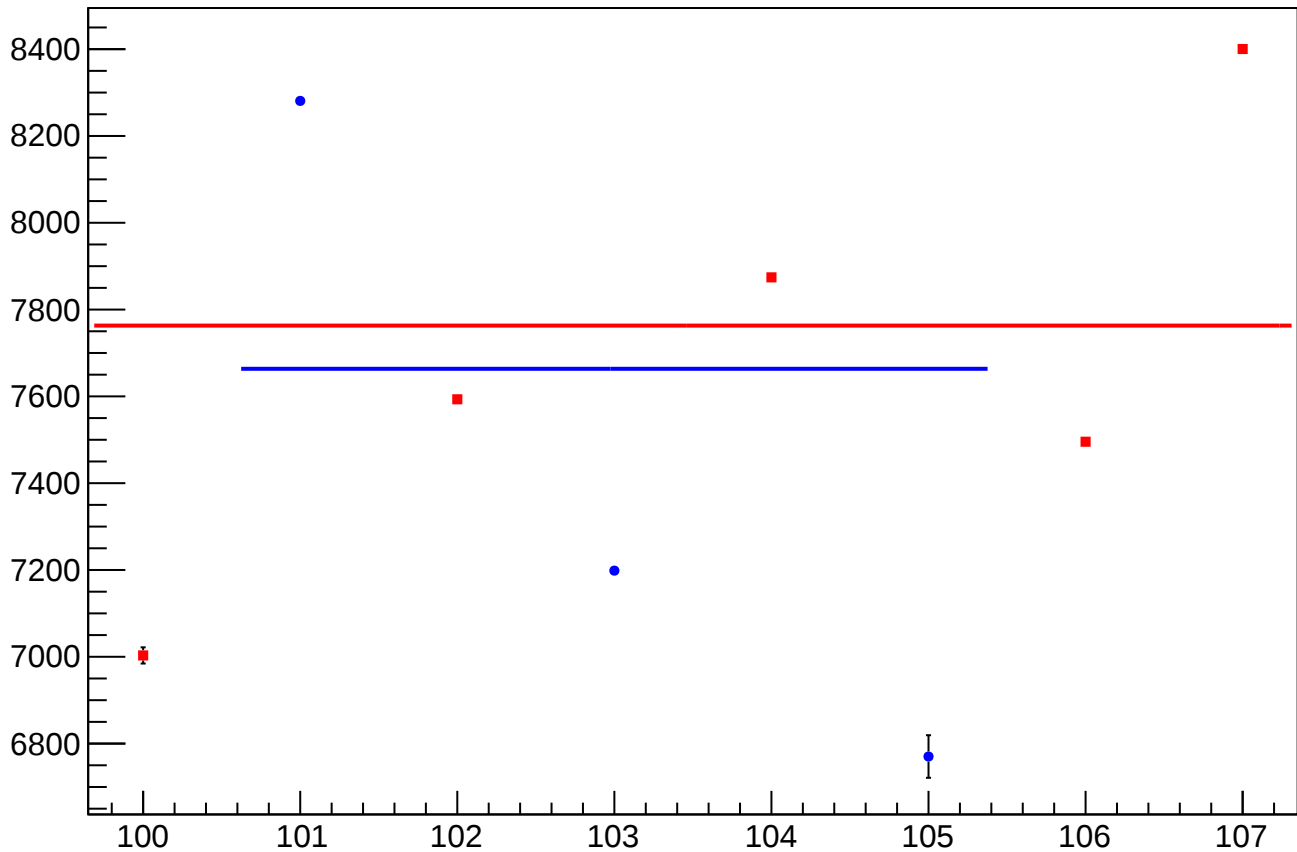
Right Out: 12.994+/-5.896  $\chi^2/\text{NDF}$ : 3.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.672+/-7.134  $\chi^2/\text{NDF}$ : 1.3/2

12.994+/-5.896  $\chi^2/\text{NDF}$ : 3.7/4

# diff\_bpm4acY\_rms vs slug



Right In: 7663.553+/-5.044  $\chi^2/\text{NDF}$ : 11551.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

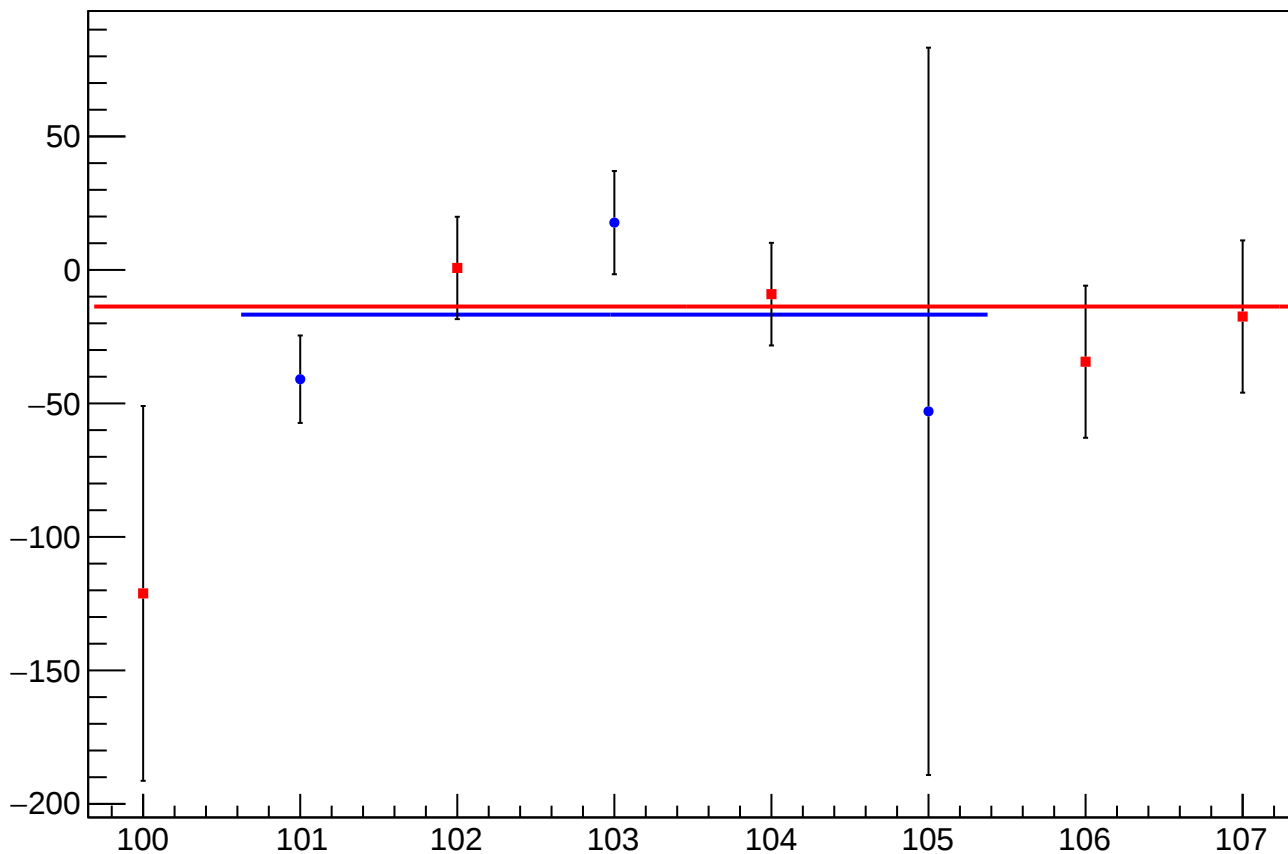
7663.553+/-5.044  $\chi^2/\text{NDF}$ : 11551.5/2

Right Out: 7763.099+/-4.169  $\chi^2/\text{NDF}$ : 7201.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7763.099+/-4.169  $\chi^2/\text{NDF}$ : 7201.3/4

diff\_bpm4ecX\_mean vs slug



Right In: -16.741 $\pm$ 12.445  $\chi^2$ /NDF: 5.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

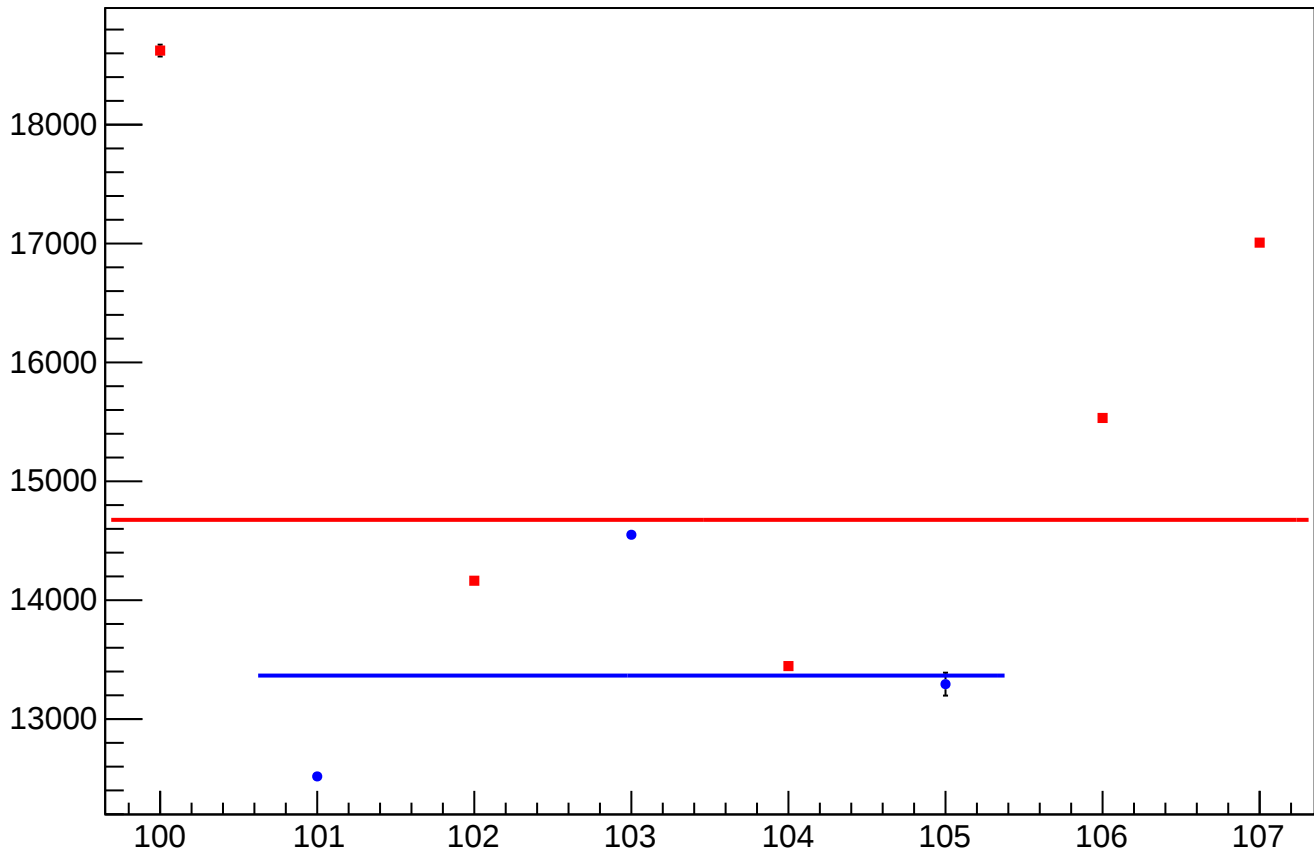
Right Out: -13.708 $\pm$ 11.114  $\chi^2$ /NDF: 3.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-16.741 $\pm$ 12.445  $\chi^2$ /NDF: 5.4/2

-13.708 $\pm$ 11.114  $\chi^2$ /NDF: 3.5/4

# diff\_bpm4ecX\_rms vs slug



Right In: 13366.008 $\pm$ 8.800  $\chi^2$ /NDF: 12868.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

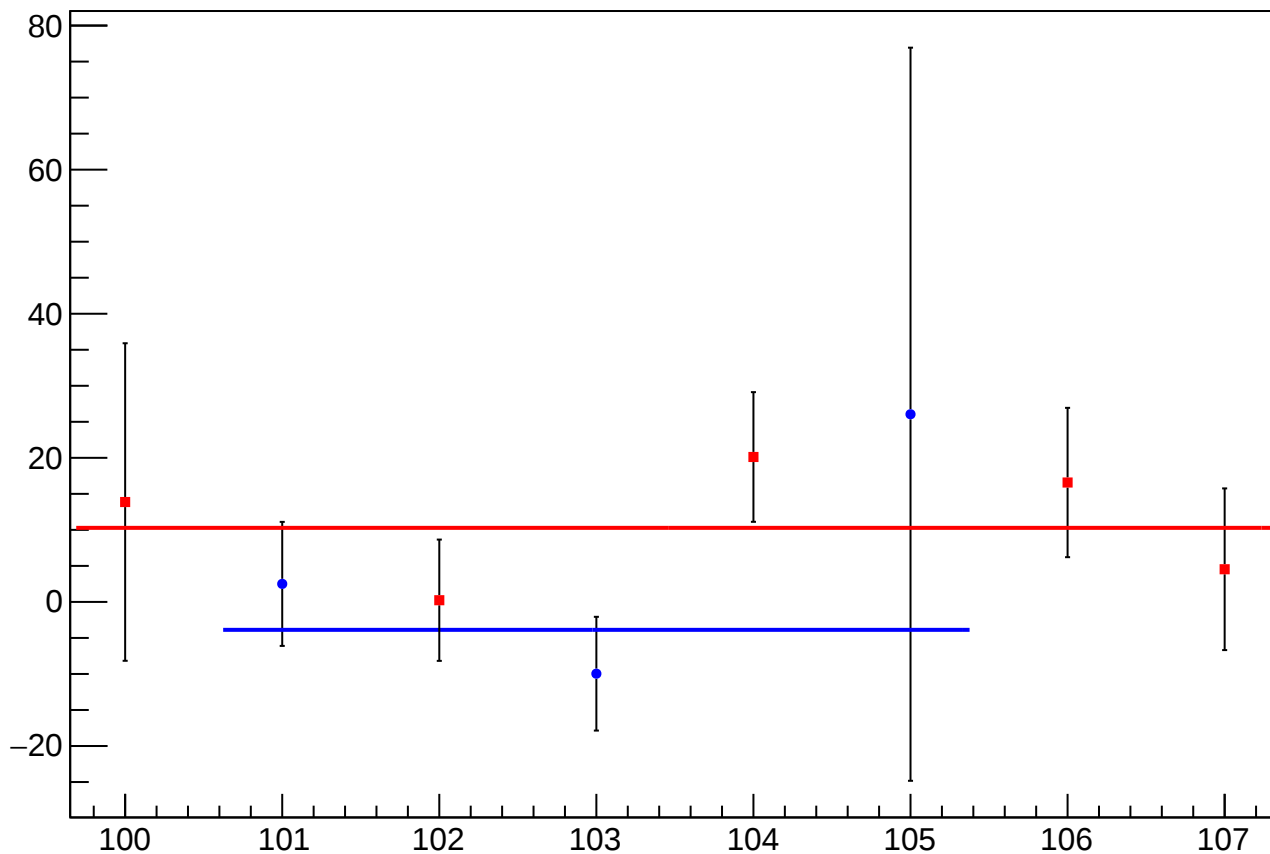
13366.008 $\pm$ 8.800  $\chi^2$ /NDF: 12868.3/2

Right Out: 14675.859 $\pm$ 7.859  $\chi^2$ /NDF: 31130.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

14675.859 $\pm$ 7.859  $\chi^2$ /NDF: 31130.2/4

# diff\_bpm4ecY\_mean vs slug



Right In: -3.876+/-5.781  $\chi^2/\text{NDF}$ : 1.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

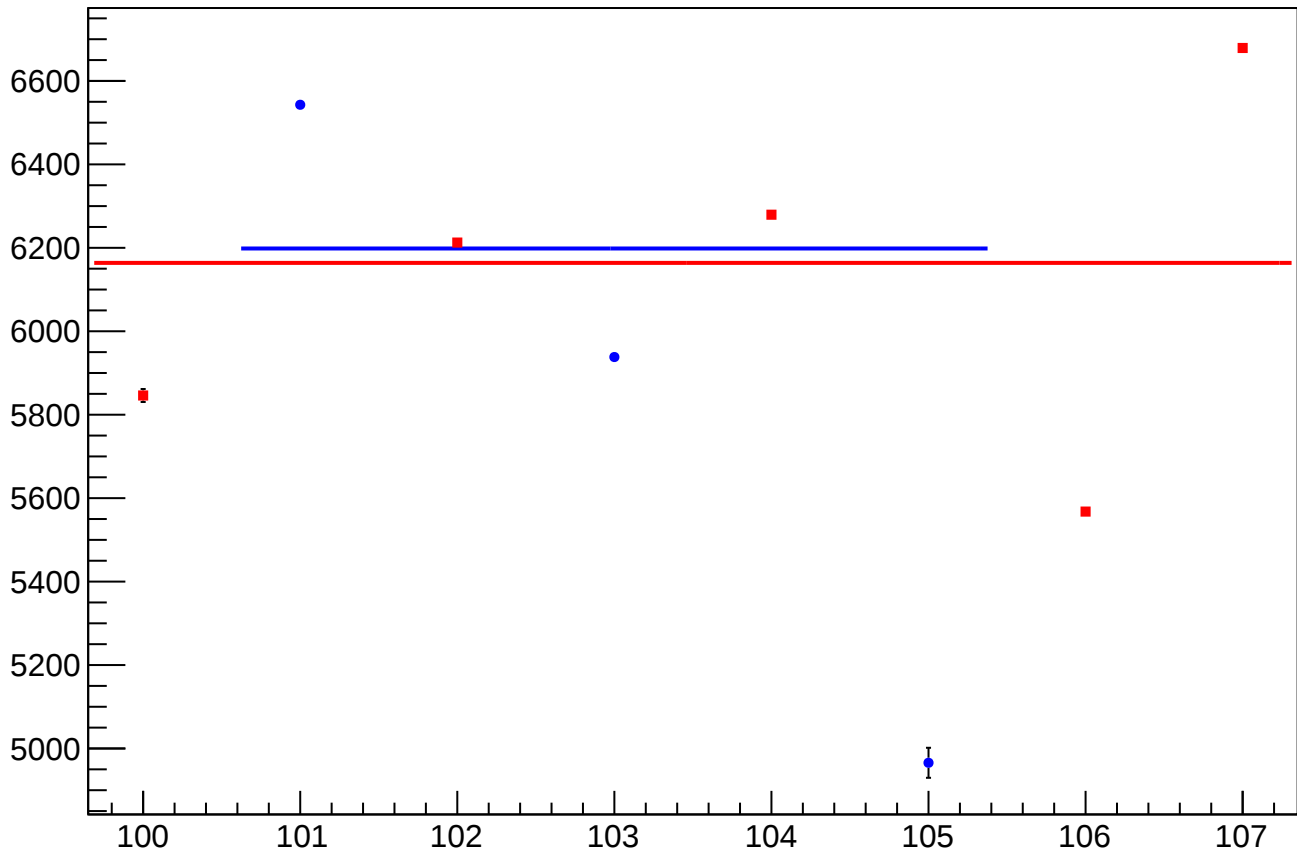
Right Out: 10.281+/-4.674  $\chi^2/\text{NDF}$ : 3.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.876+/-5.781  $\chi^2/\text{NDF}$ : 1.5/2

10.281+/-4.674  $\chi^2/\text{NDF}$ : 3.3/4

# diff\_bpm4ecY\_rms vs slug



Right In: 6198.401 $\pm$ 4.087  $\chi^2$ /NDF: 6549.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

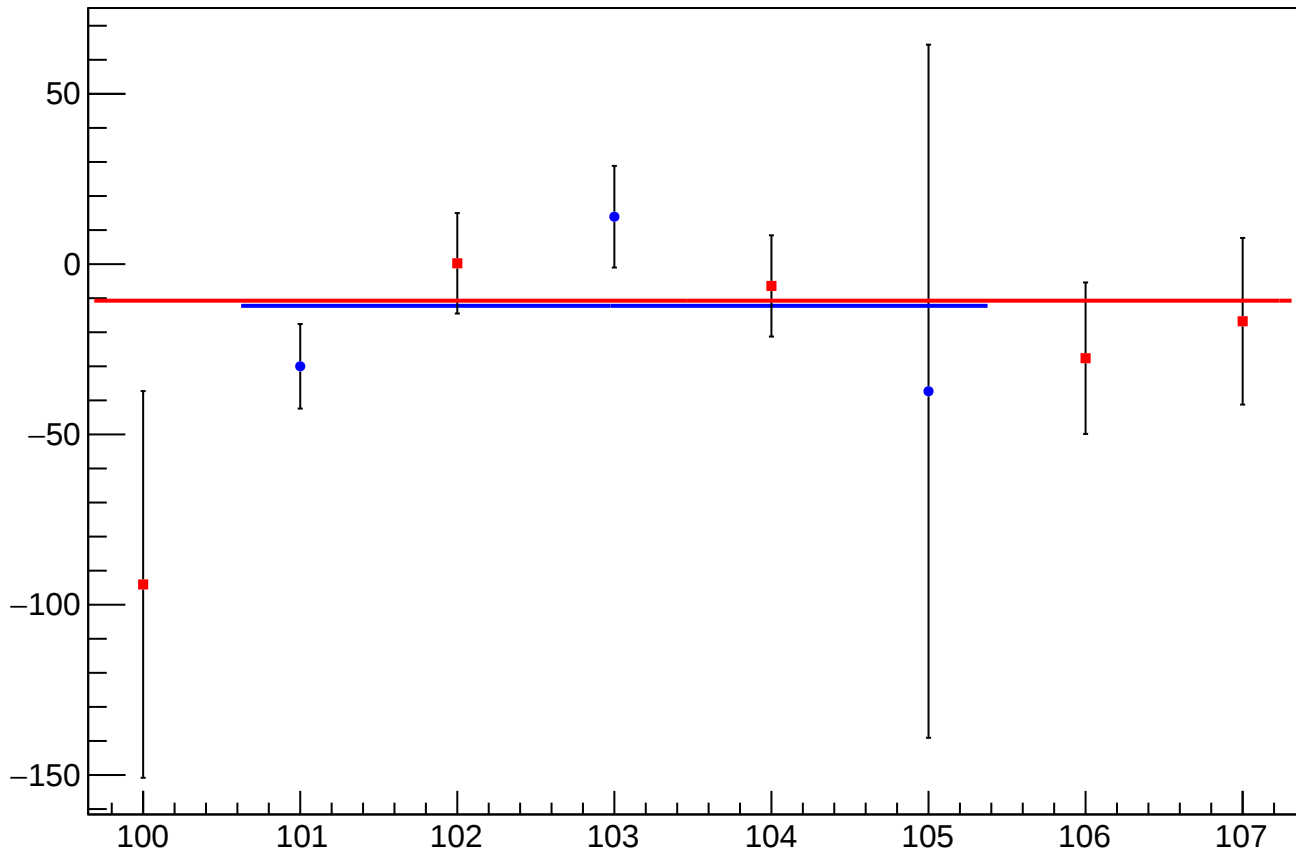
6198.401 $\pm$ 4.087  $\chi^2$ /NDF: 6549.1/2

Right Out: 6163.895 $\pm$ 3.305  $\chi^2$ /NDF: 11642.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

6163.895 $\pm$ 3.305  $\chi^2$ /NDF: 11642.5/4

diff\_bpm1X\_mean vs slug



Right In: -12.236+/-9.505  $\chi^2/\text{NDF}$ : 5.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

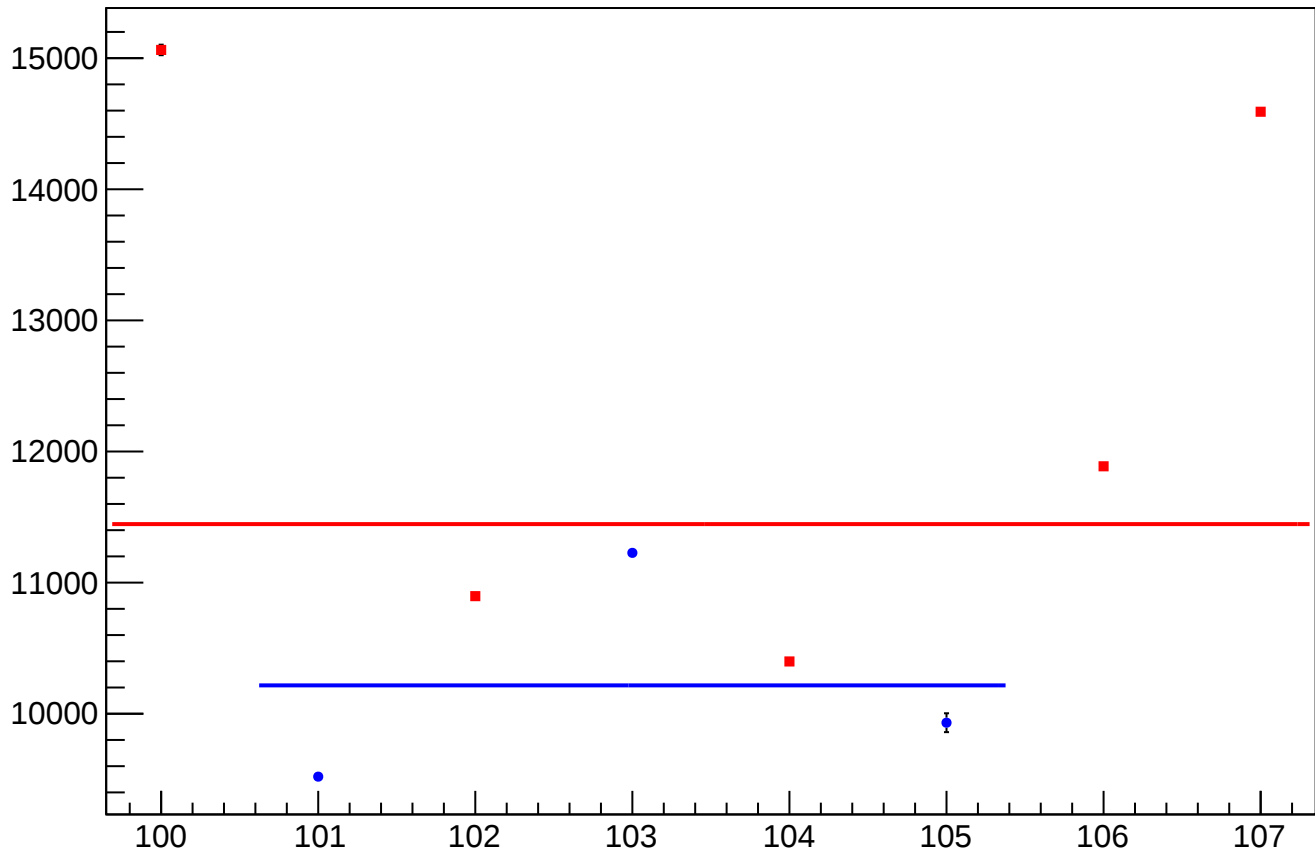
Right Out: -10.731+/-8.728  $\chi^2/\text{NDF}$ : 3.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-12.236+/-9.505  $\chi^2/\text{NDF}$ : 5.2/2

-10.731+/-8.728  $\chi^2/\text{NDF}$ : 3.4/4

# diff\_bpm1X\_rms vs slug



Right In: 10216.266+/-6.721  $\chi^2/\text{NDF}$ : 15473.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

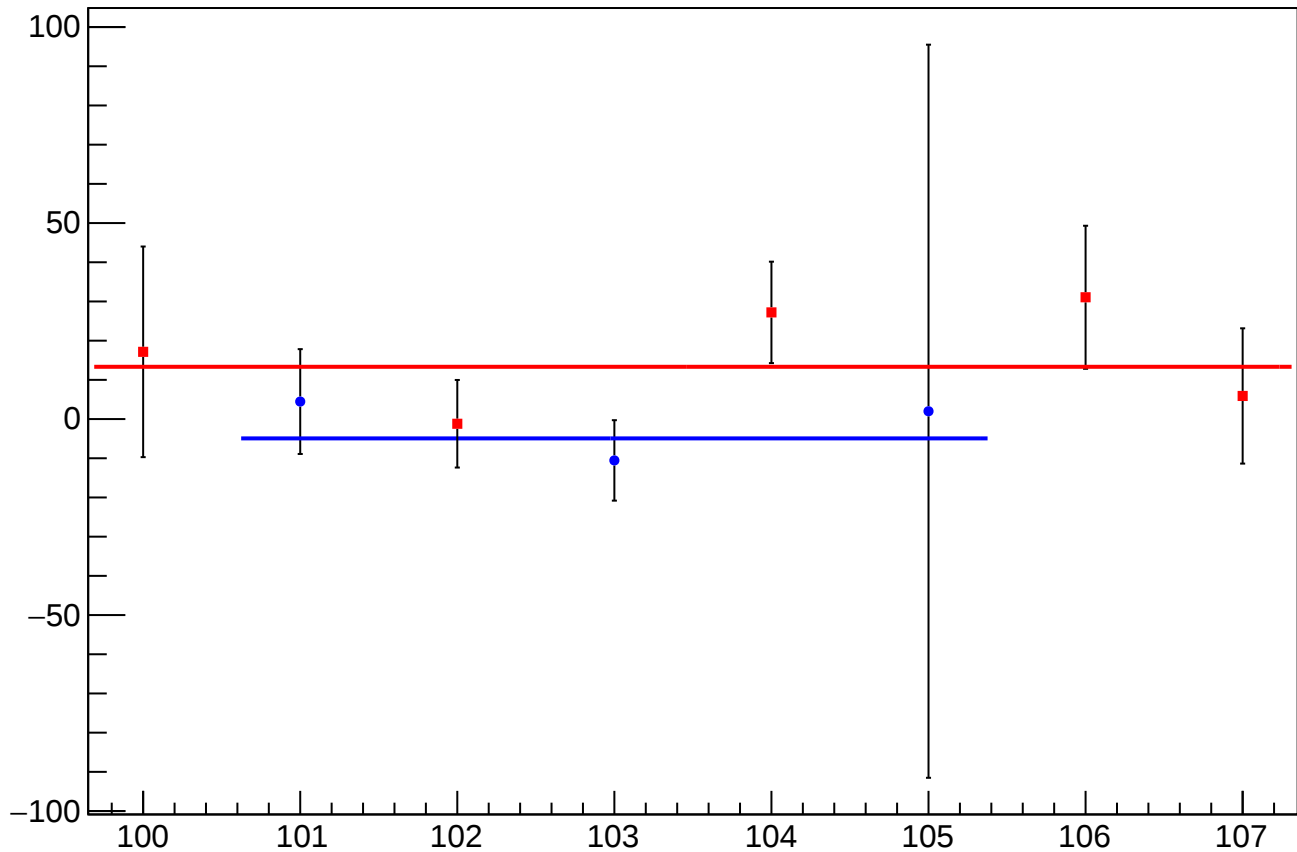
Right Out: 11446.313+/-6.172  $\chi^2/\text{NDF}$ : 54664.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10216.266+/-6.721  $\chi^2/\text{NDF}$ : 15473.3/2

11446.313+/-6.172  $\chi^2/\text{NDF}$ : 54664.3/4

# diff\_bpm1Y\_mean vs slug



Right In: -4.932+/-8.110  $\chi^2/\text{NDF}$ : 0.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

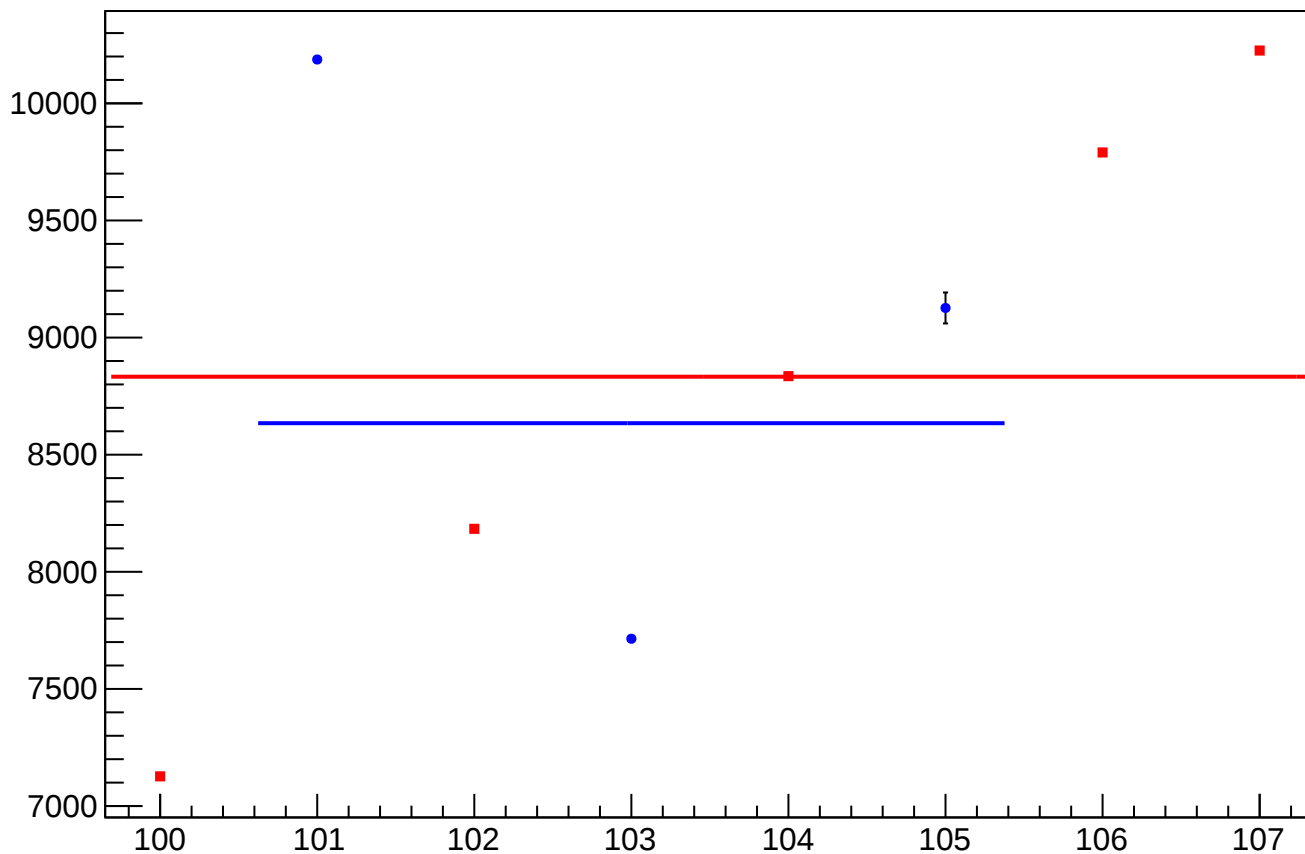
Right Out: 13.335+/-6.783  $\chi^2/\text{NDF}$ : 4.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.932+/-8.110  $\chi^2/\text{NDF}$ : 0.8/2

13.335+/-6.783  $\chi^2/\text{NDF}$ : 4.0/4

# diff\_bpm1Y\_rms vs slug



Right In: 8634.470 $\pm$ 5.735  $\chi^2$ /NDF: 43105.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

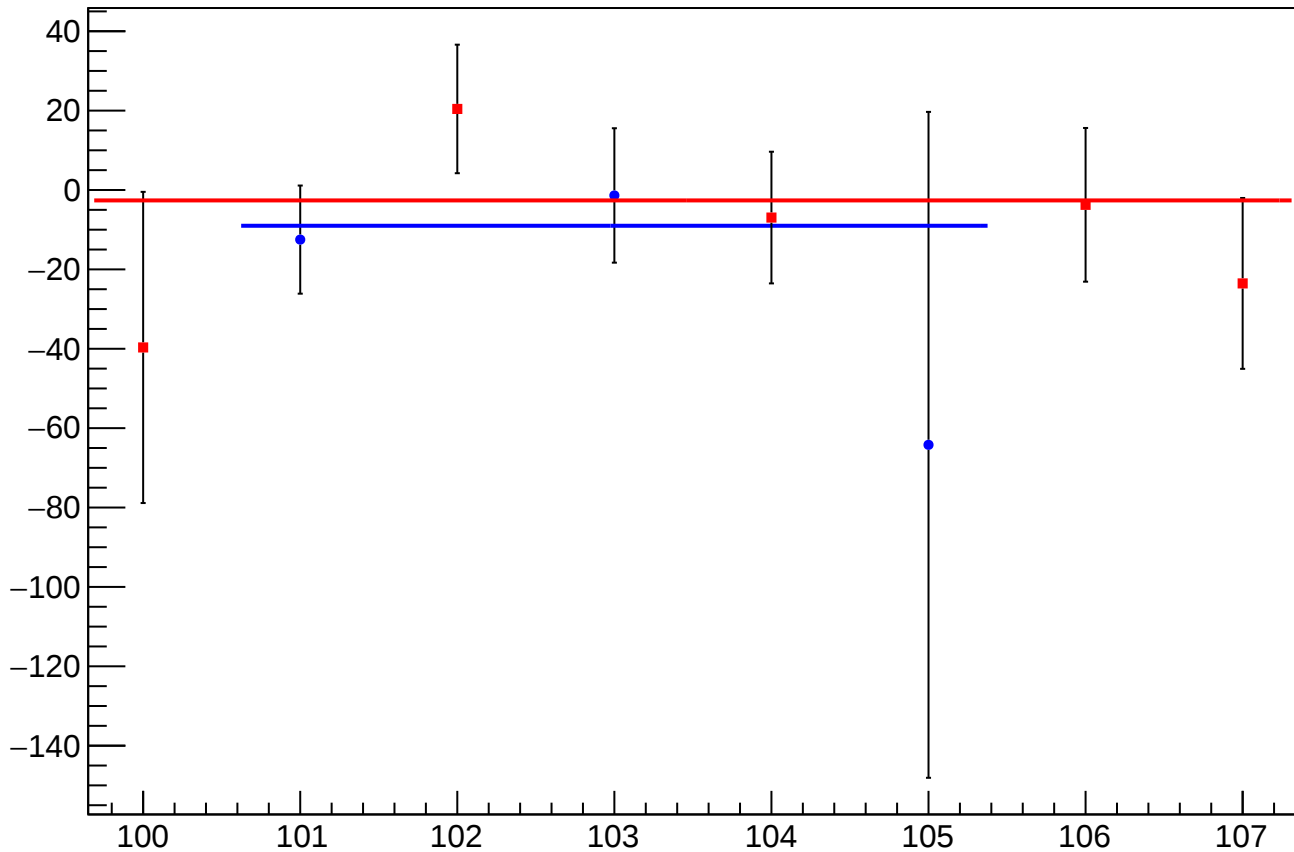
Right Out: 8832.971 $\pm$ 4.796  $\chi^2$ /NDF: 33357.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

8634.470 $\pm$ 5.735  $\chi^2$ /NDF: 43105.1/2

8832.971 $\pm$ 4.796  $\chi^2$ /NDF: 33357.0/4

diff\_bpm11X\_mean vs slug



Right In: -9.010+/-10.530  $\chi^2/\text{NDF}$ : 0.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

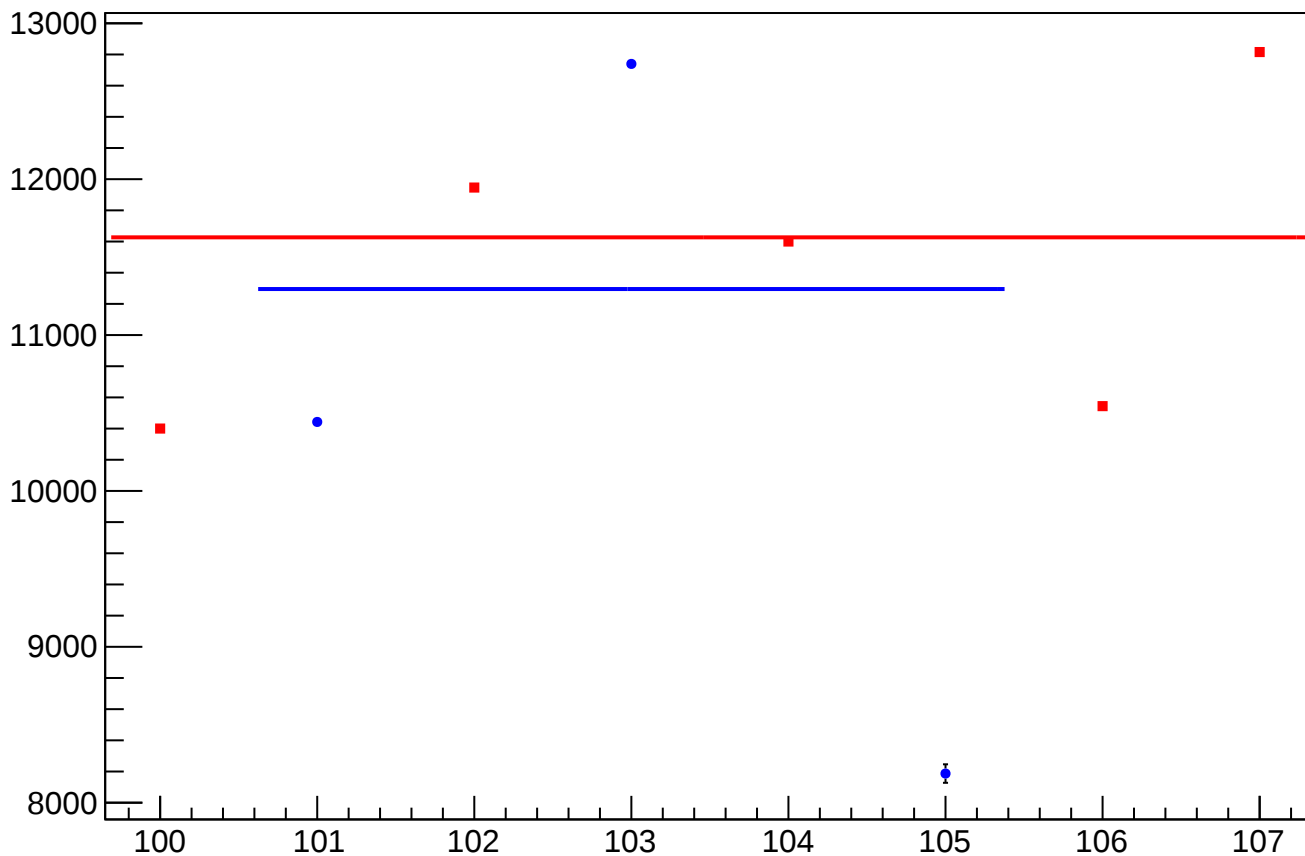
Right Out: -2.625+/-8.796  $\chi^2/\text{NDF}$ : 3.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-9.010+/-10.530  $\chi^2/\text{NDF}$ : 0.7/2

-2.625+/-8.796  $\chi^2/\text{NDF}$ : 3.9/4

# diff\_bpm11X\_rms vs slug



Right In: 11295.279+/-7.446  $\chi^2/\text{NDF}$ : 25131.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

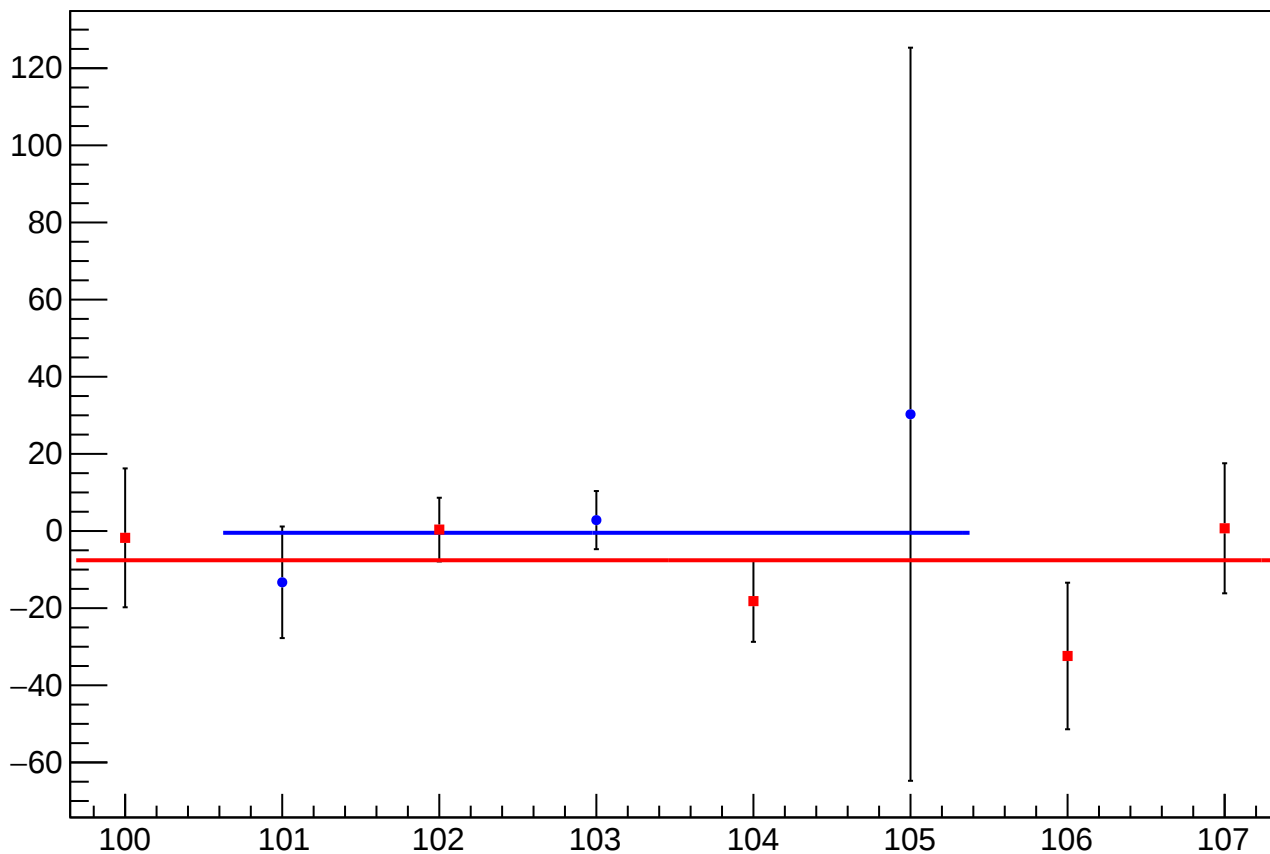
Right Out: 11626.839+/-6.220  $\chi^2/\text{NDF}$ : 15097.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

11295.279+/-7.446  $\chi^2/\text{NDF}$ : 25131.5/2

11626.839+/-6.220  $\chi^2/\text{NDF}$ : 15097.6/4

# diff\_bpm11Y\_mean vs slug



Right In: -0.462 $\pm$ 6.669  $\chi^2$ /NDF: 1.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

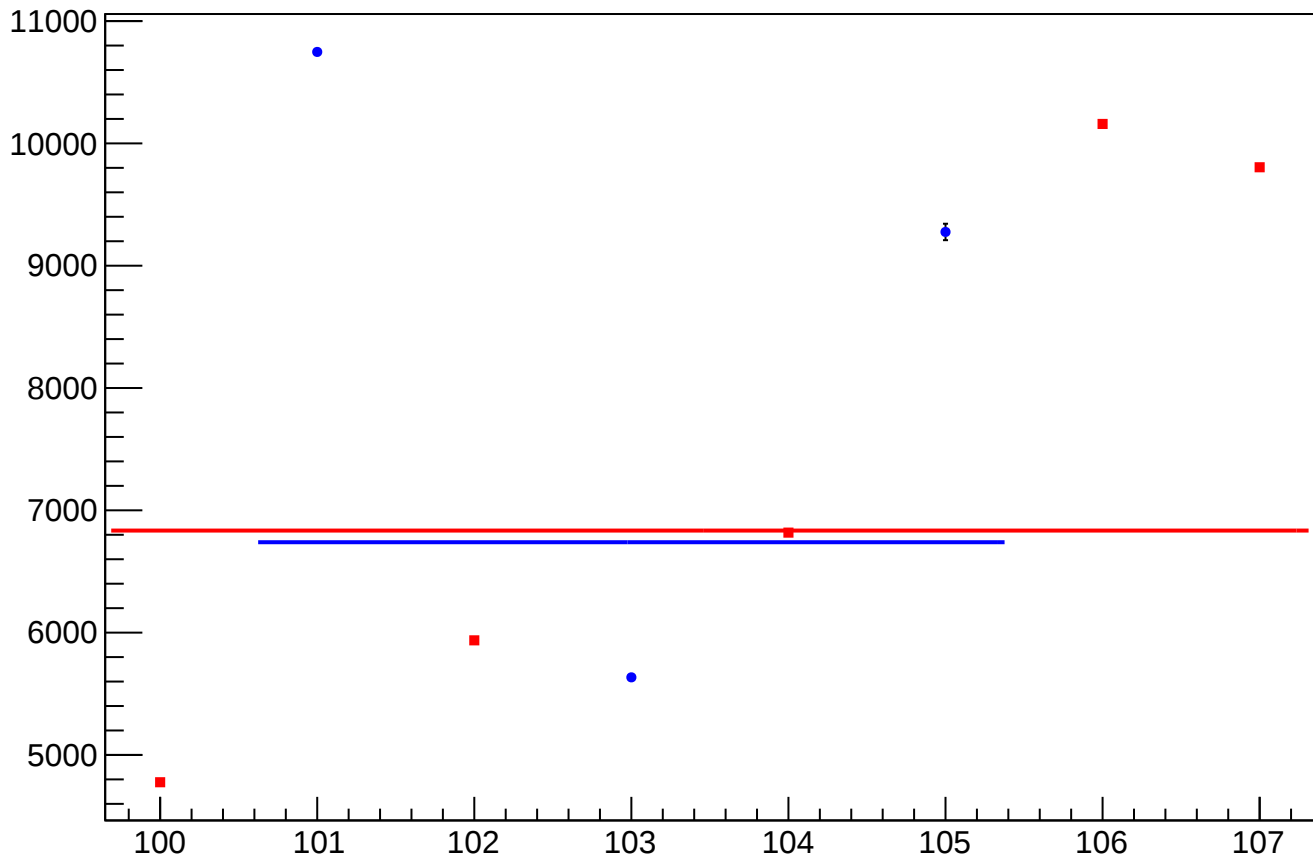
Right Out: -7.582 $\pm$ 5.505  $\chi^2$ /NDF: 4.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.462 $\pm$ 6.669  $\chi^2$ /NDF: 1.1/2

-7.582 $\pm$ 5.505  $\chi^2$ /NDF: 4.0/4

# diff\_bpm11Y\_rms vs slug



Right In: 6739.125+/-4.716  $\chi^2/\text{NDF}$ : 197955.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

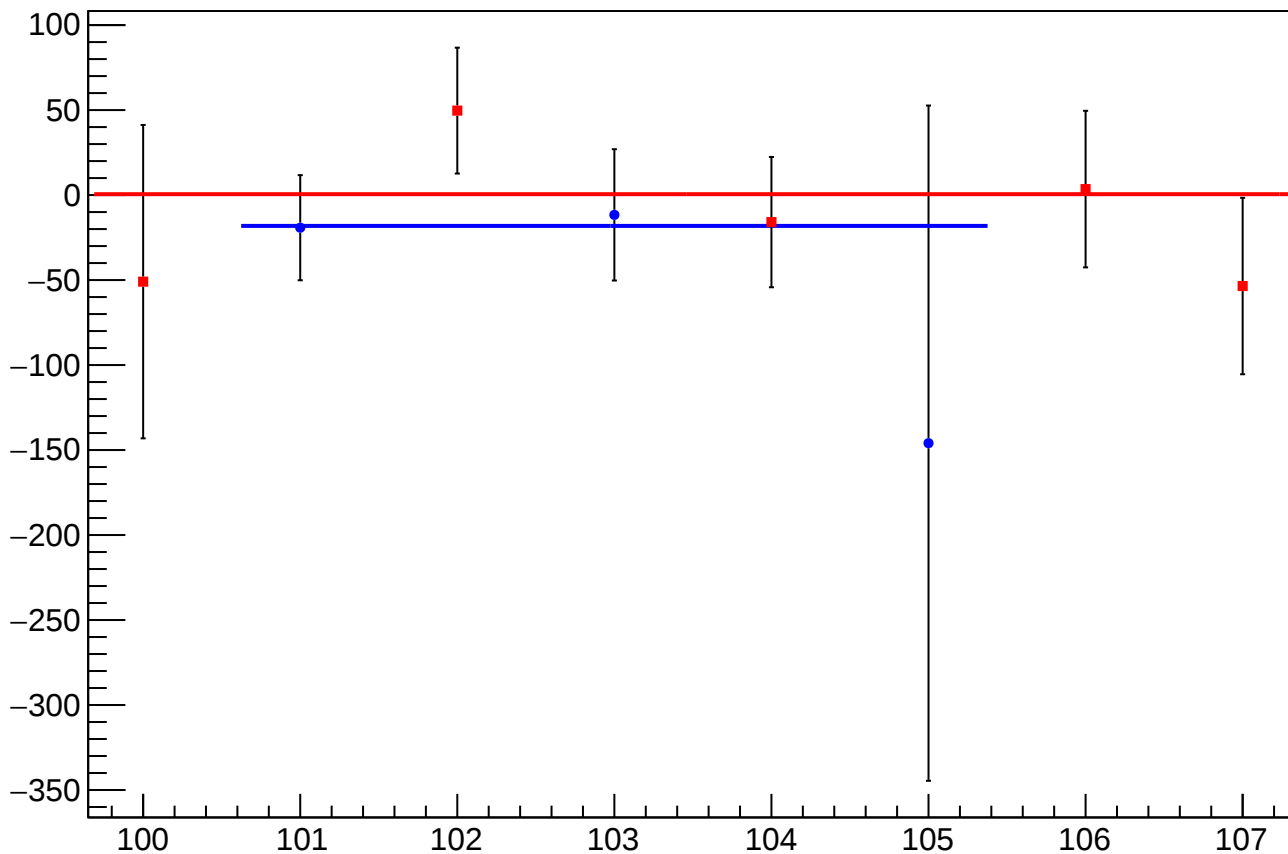
6739.125+/-4.716  $\chi^2/\text{NDF}$ : 197955.1/2

Right Out: 6834.493+/-3.893  $\chi^2/\text{NDF}$ : 173037.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6834.493+/-3.893  $\chi^2/\text{NDF}$ : 173037.5/4

diff\_bpm12X\_mean vs slug



Right In:  $-18.137 \pm 23.965$   $\chi^2/\text{NDF}$ : 0.4/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

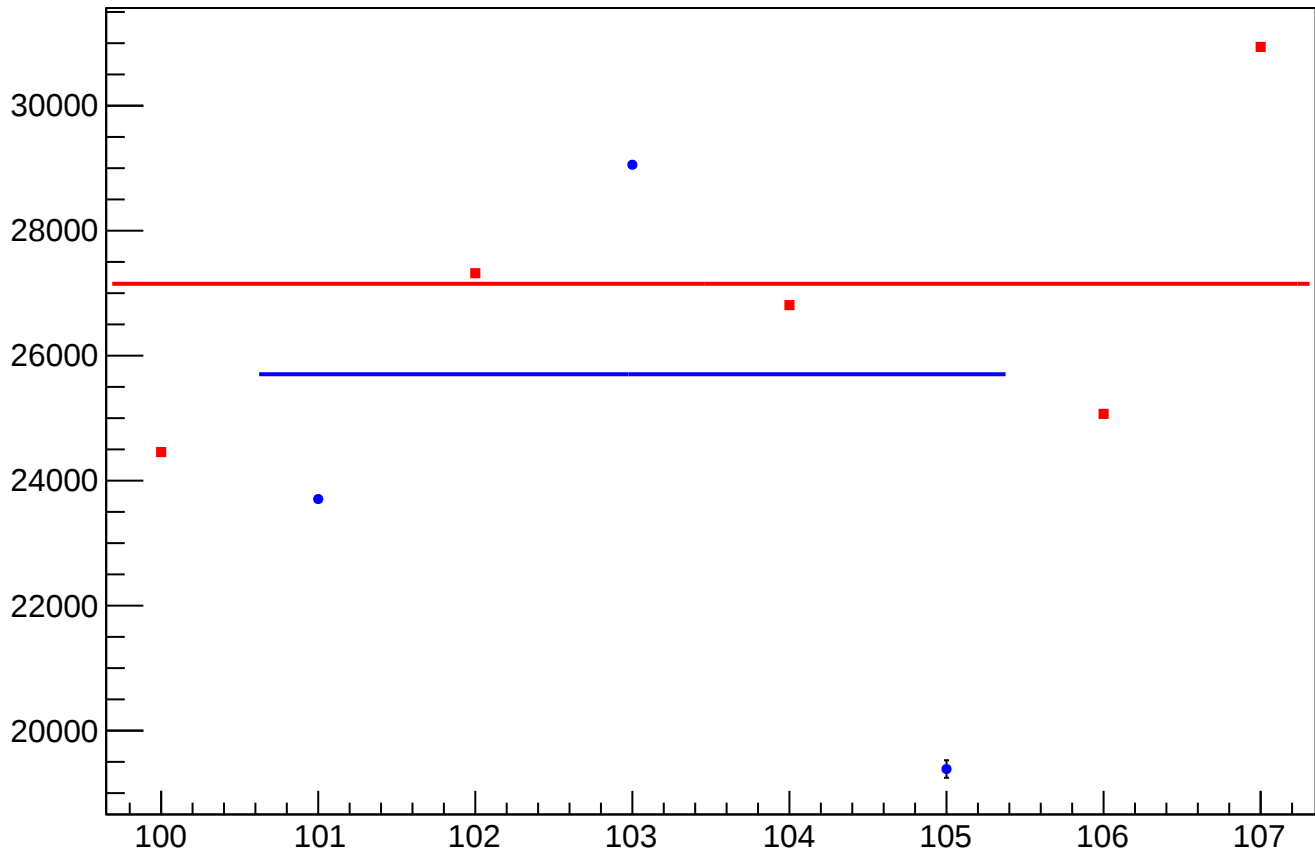
Right Out:  $0.520 \pm 20.539$   $\chi^2/\text{NDF}$ : 3.3/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-18.137 \pm 23.965$   $\chi^2/\text{NDF}$ : 0.4/2

$0.520 \pm 20.539$   $\chi^2/\text{NDF}$ : 3.3/4

# diff\_bpm12X\_rms vs slug



Right In: 25702.728 $\pm$ 16.946  $\chi^2$ /NDF: 25430.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

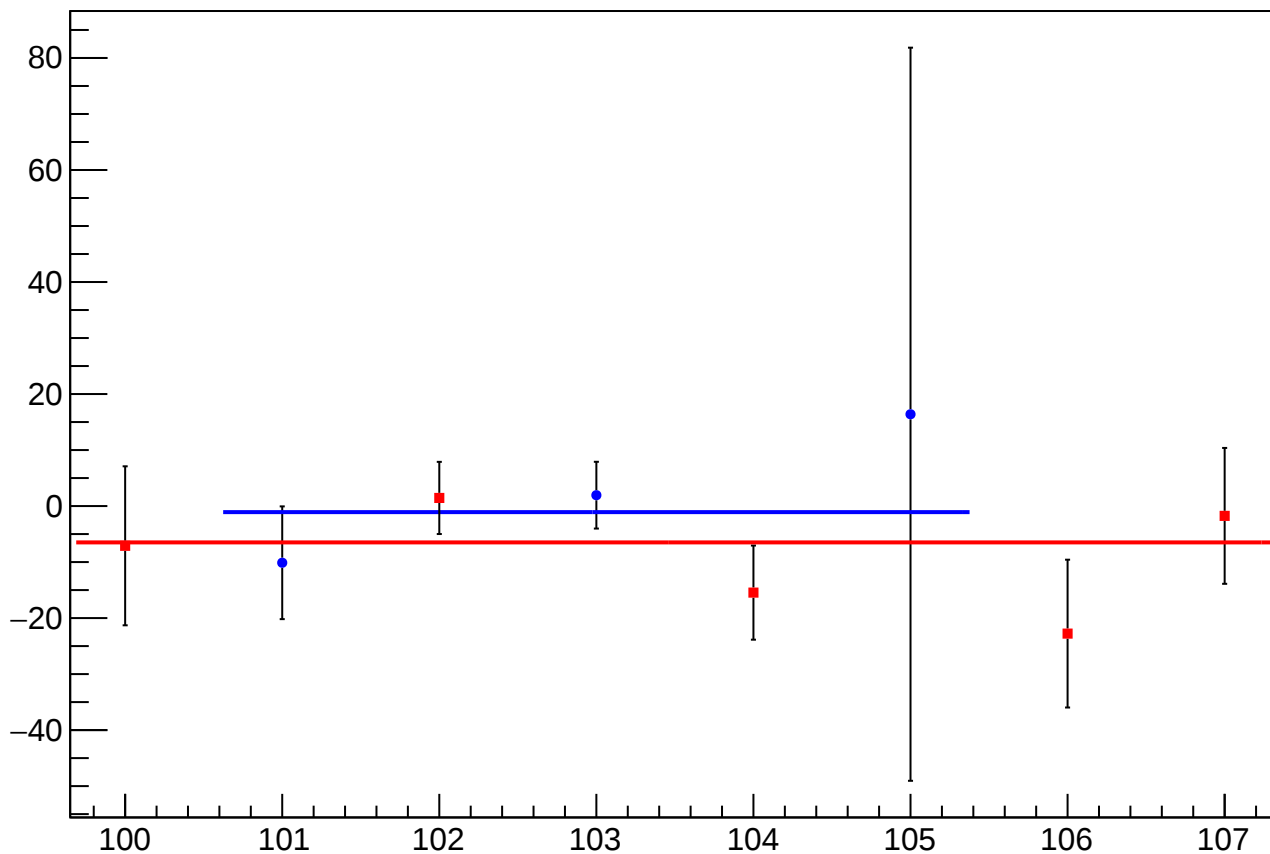
Right Out: 27150.145 $\pm$ 14.523  $\chi^2$ /NDF: 16655.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

25702.728 $\pm$ 16.946  $\chi^2$ /NDF: 25430.1/2

27150.145 $\pm$ 14.523  $\chi^2$ /NDF: 16655.0/4

# diff\_bpm12Y\_mean vs slug



Right In: -1.084+/-5.113  $\chi^2/\text{NDF}$ : 1.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

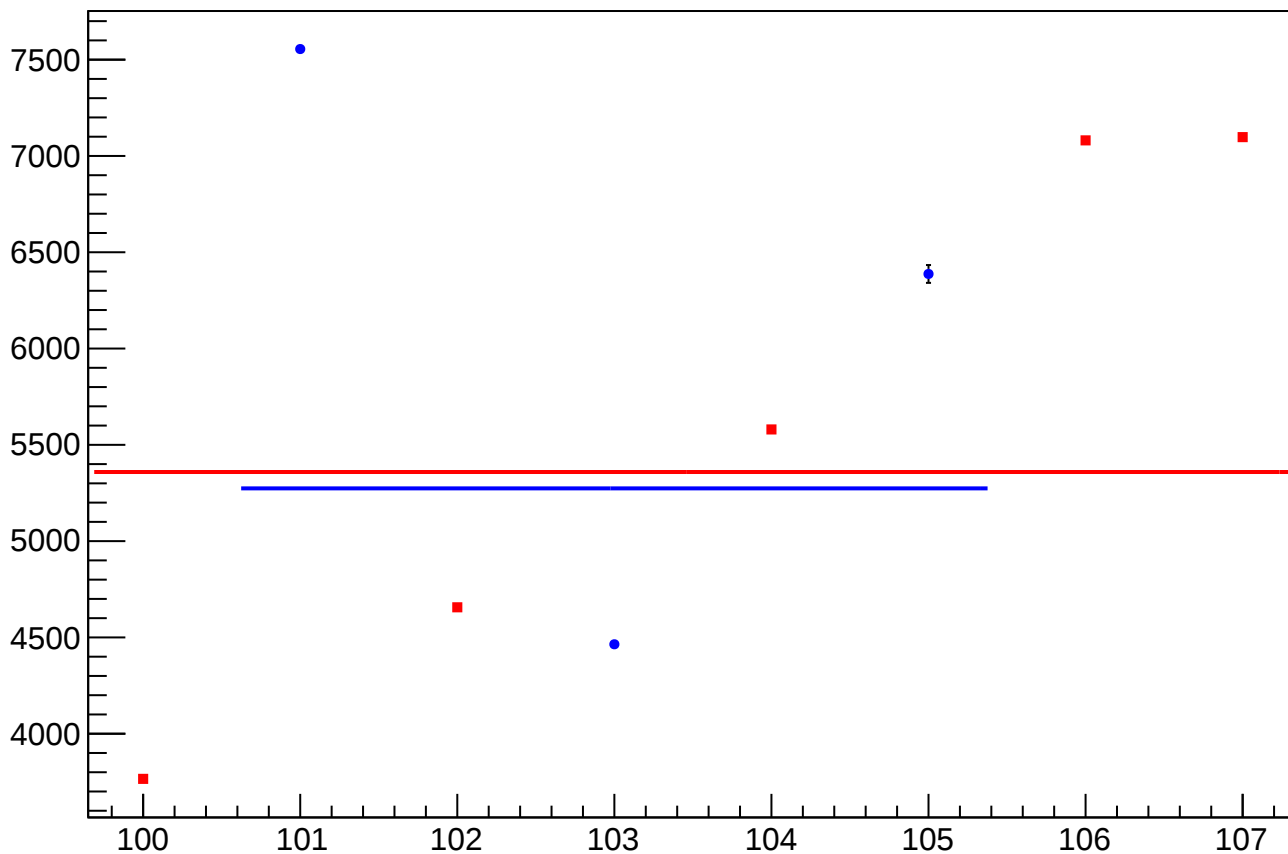
Right Out: -6.489+/-4.235  $\chi^2/\text{NDF}$ : 4.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.084+/-5.113  $\chi^2/\text{NDF}$ : 1.1/2

-6.489+/-4.235  $\chi^2/\text{NDF}$ : 4.3/4

# diff\_bpm12Y\_rms vs slug



Right In: 5273.921+/-3.616  $\chi^2/\text{NDF}$ : 140201.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

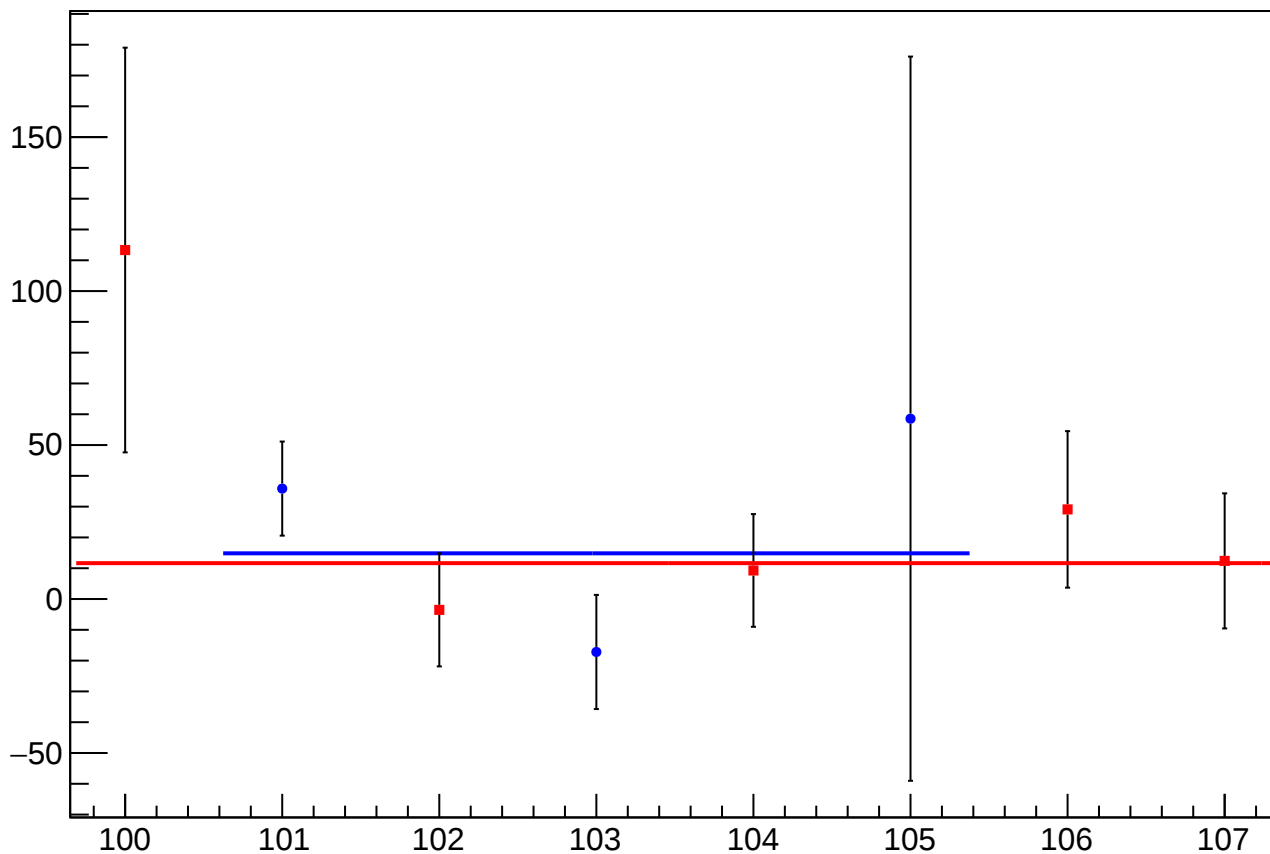
Right Out: 5358.943+/-2.995  $\chi^2/\text{NDF}$ : 125531.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5273.921+/-3.616  $\chi^2/\text{NDF}$ : 140201.3/2

5358.943+/-2.995  $\chi^2/\text{NDF}$ : 125531.3/4

diff\_bpm16X\_mean vs slug



Right In: 14.843+/-11.729  $\chi^2/\text{NDF}$ : 5.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

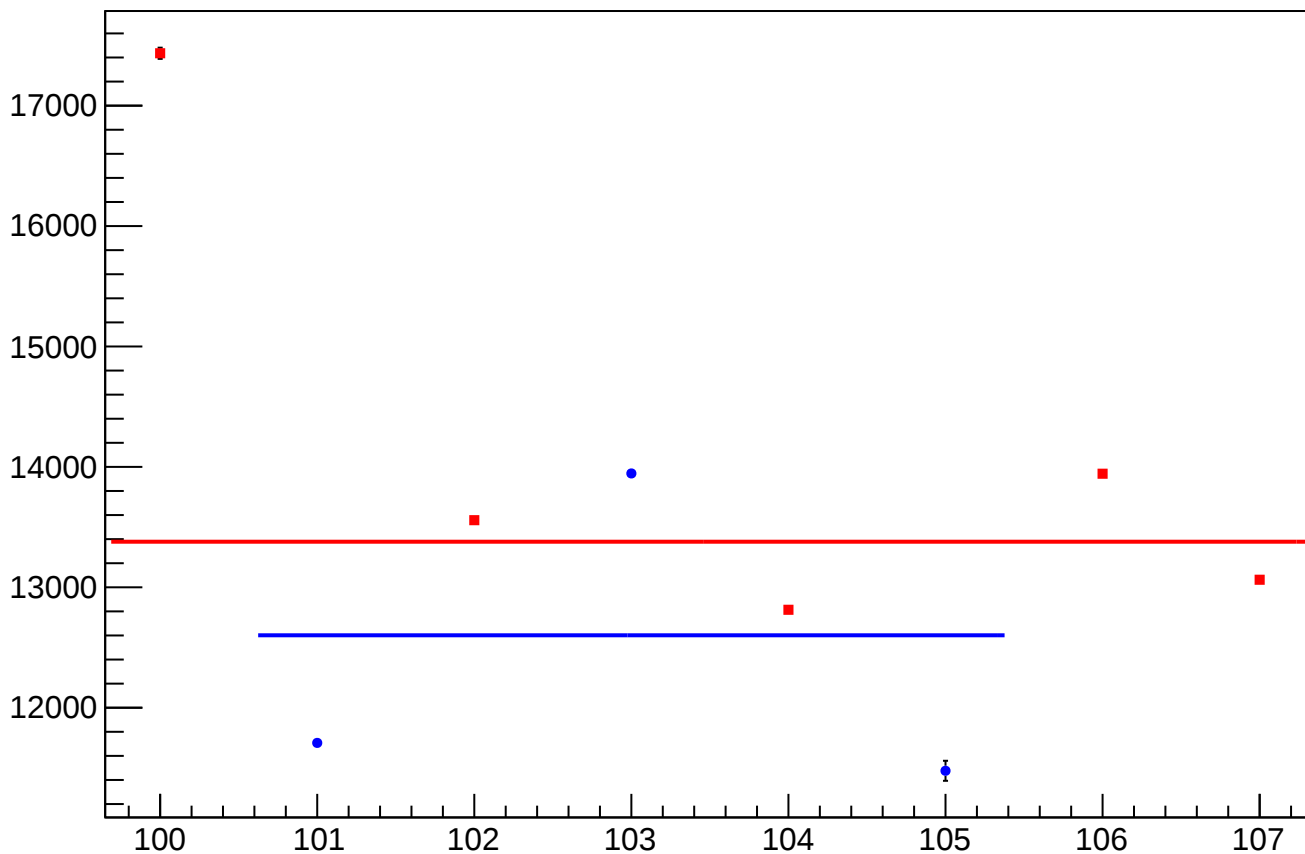
Right Out: 11.646+/-10.095  $\chi^2/\text{NDF}$ : 3.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14.843+/-11.729  $\chi^2/\text{NDF}$ : 5.0/2

11.646+/-10.095  $\chi^2/\text{NDF}$ : 3.6/4

# diff\_bpm16X\_rms vs slug



Right In: 12601.502+/-8.294  $\chi^2/\text{NDF}$ : 17544.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

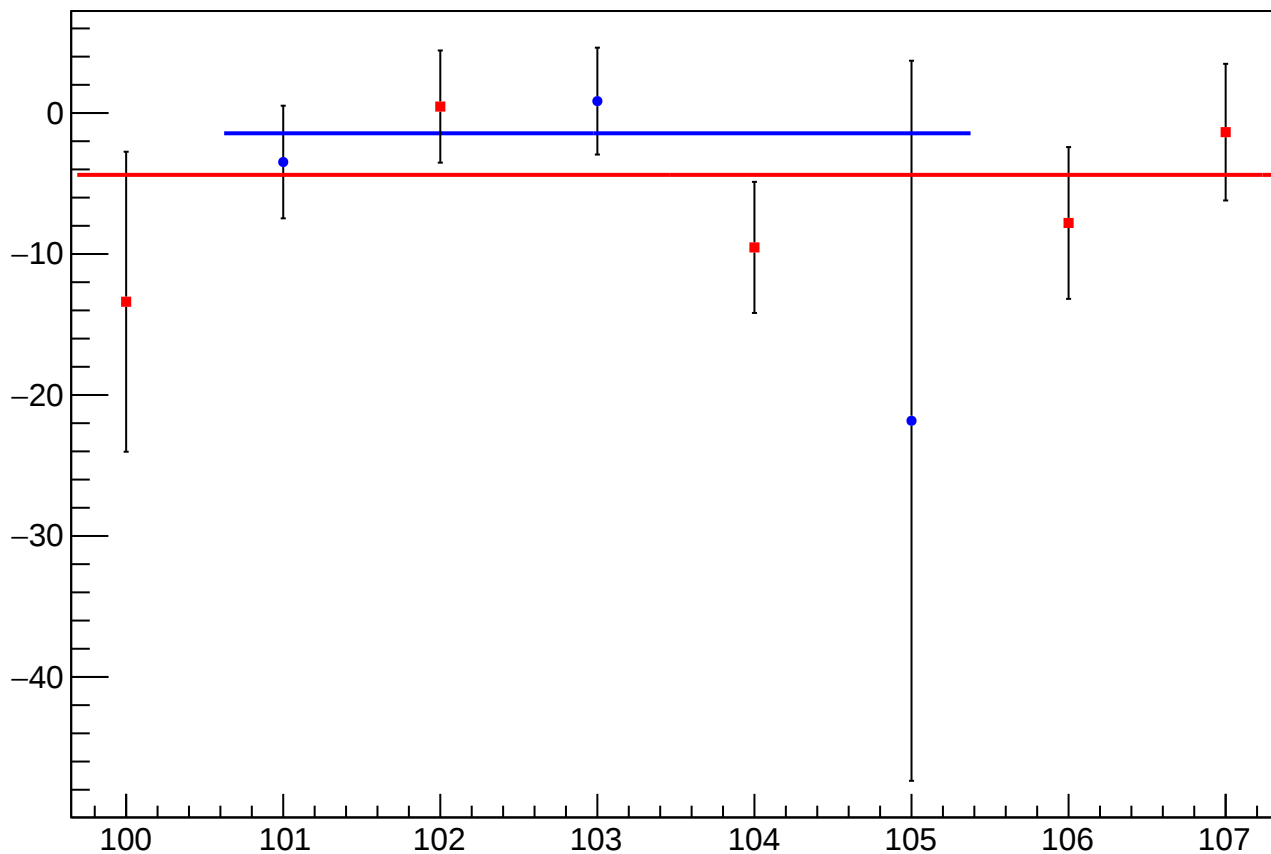
Right Out: 13378.675+/-7.138  $\chi^2/\text{NDF}$ : 11120.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

12601.502+/-8.294  $\chi^2/\text{NDF}$ : 17544.3/2

13378.675+/-7.138  $\chi^2/\text{NDF}$ : 11120.4/4

# diff\_bpm16Y\_mean vs slug



Right In: -1.438+/-2.734  $\chi^2/\text{NDF}$ : 1.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

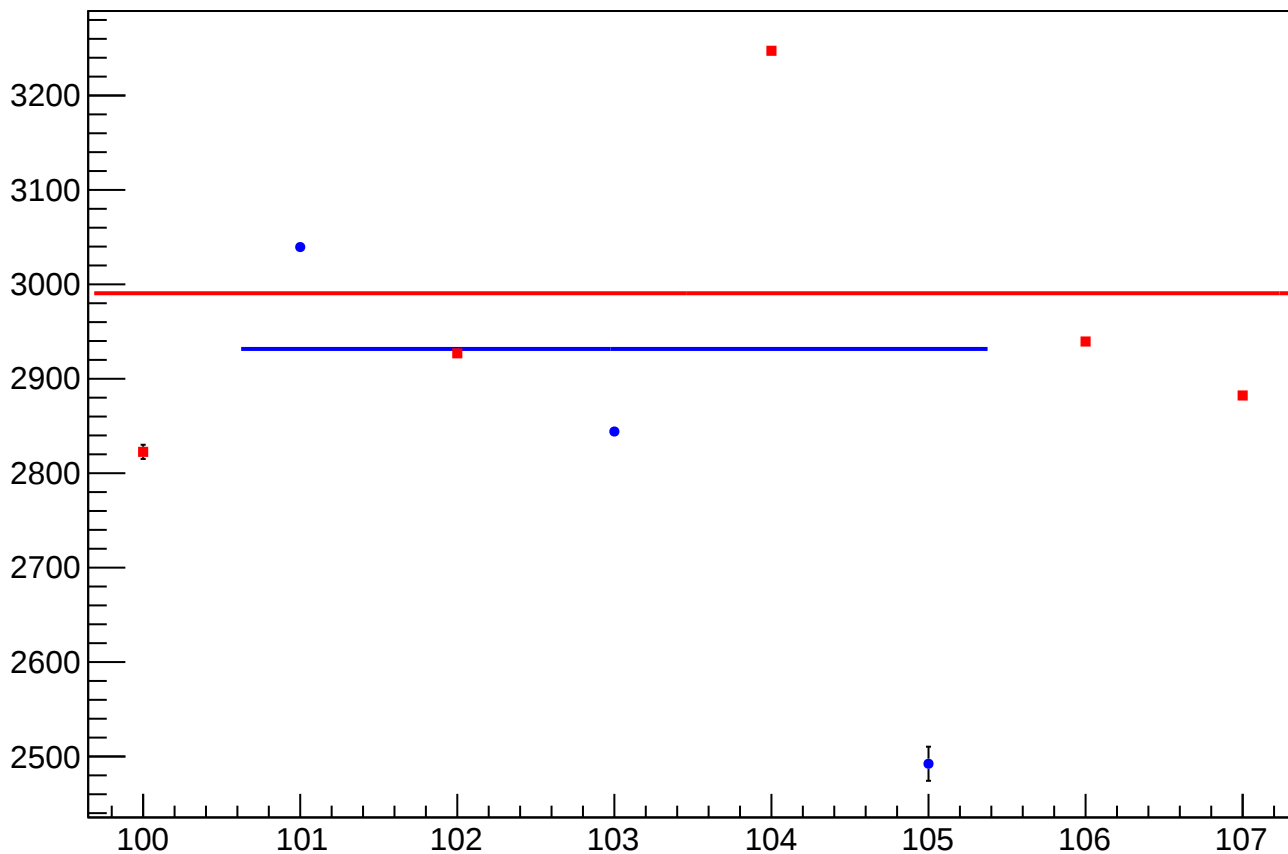
Right Out: -4.387+/-2.262  $\chi^2/\text{NDF}$ : 4.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.438+/-2.734  $\chi^2/\text{NDF}$ : 1.3/2

-4.387+/-2.262  $\chi^2/\text{NDF}$ : 4.2/4

# diff\_bpm16Y\_rms vs slug



Right In: 2931.603 $\pm$ 1.933  $\chi^2$ /NDF: 3115.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

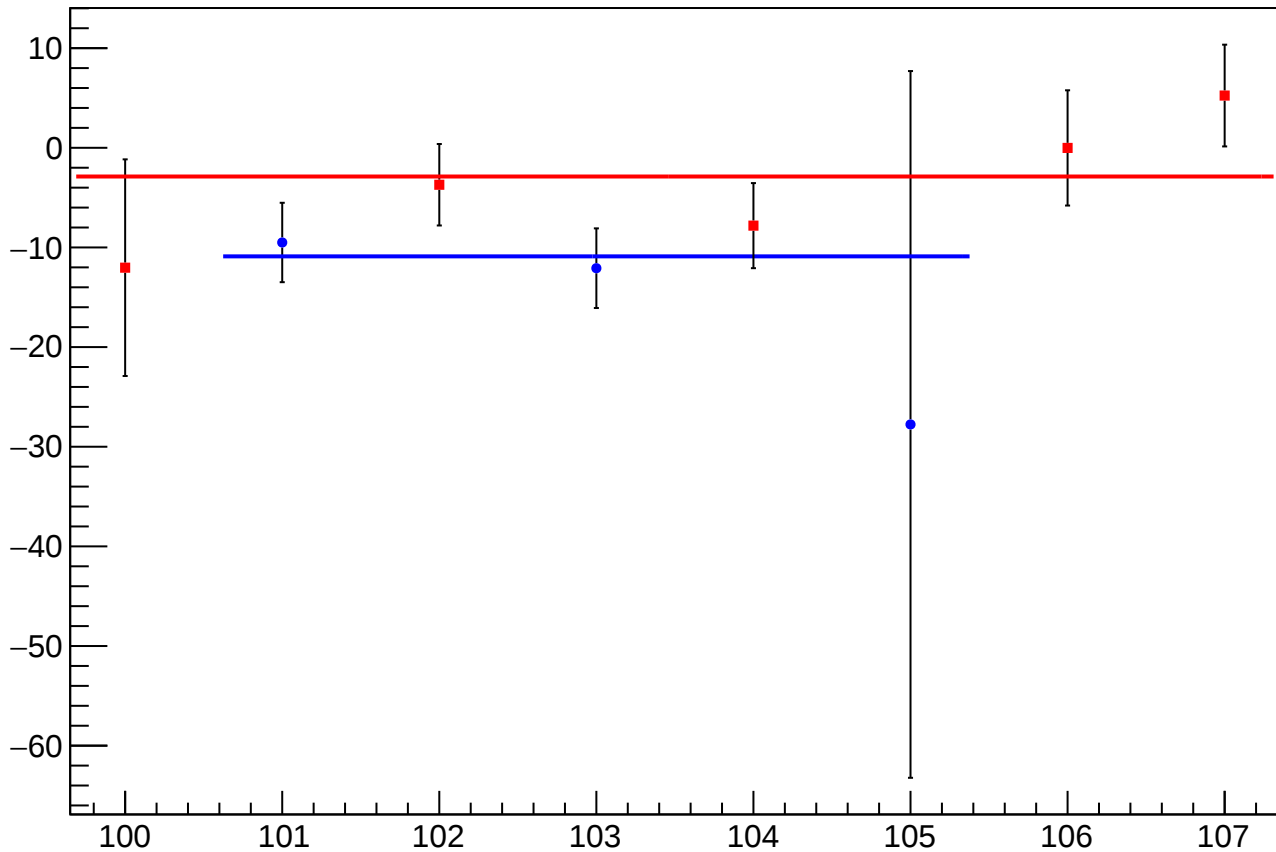
Right Out: 2990.580 $\pm$ 1.600  $\chi^2$ /NDF: 8288.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2931.603 $\pm$ 1.933  $\chi^2$ /NDF: 3115.5/2

2990.580 $\pm$ 1.600  $\chi^2$ /NDF: 8288.1/4

diff\_bpm0l01X\_mean vs slug



Right In: -10.895 $\pm$ 2.813  $\chi^2$ /NDF: 0.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

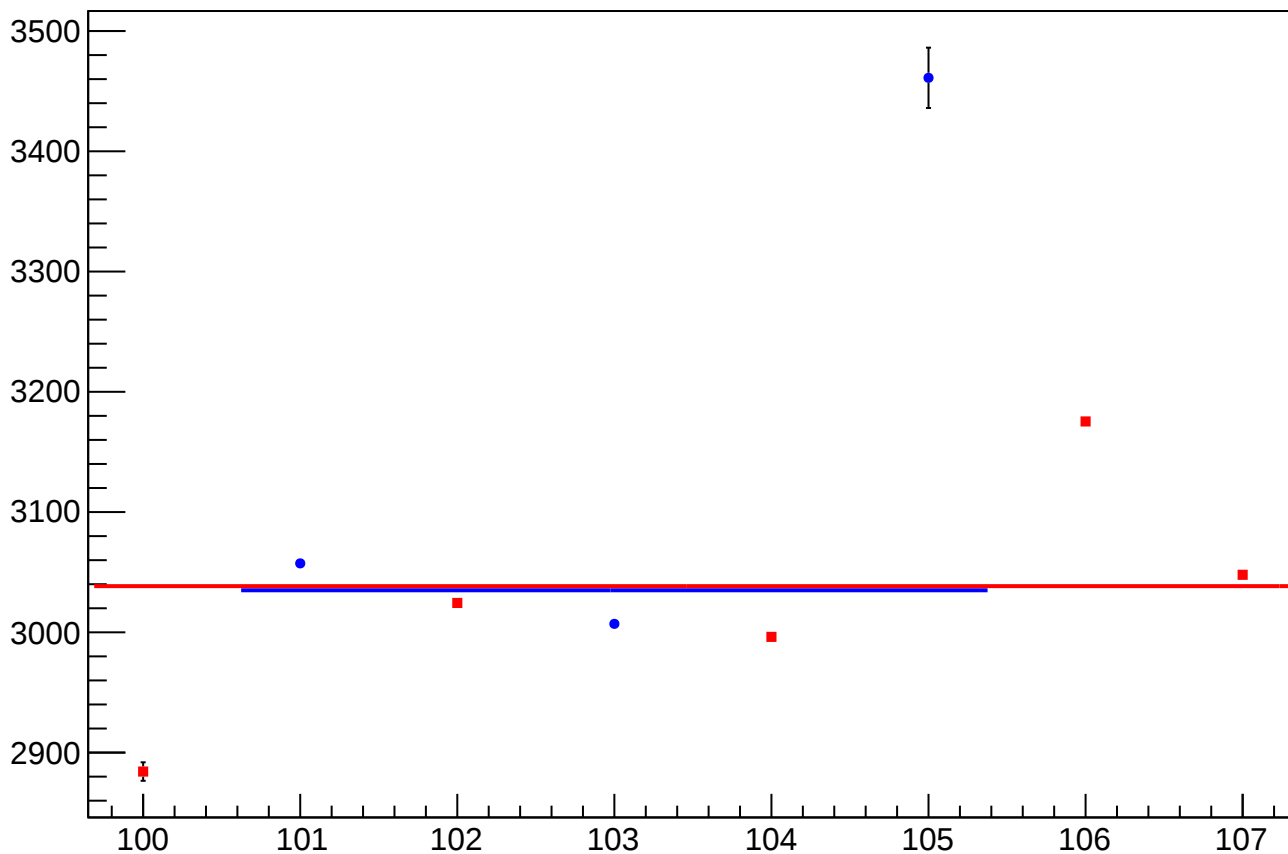
Right Out: -2.881 $\pm$ 2.286  $\chi^2$ /NDF: 4.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-10.895 $\pm$ 2.813  $\chi^2$ /NDF: 0.4/2

-2.881 $\pm$ 2.286  $\chi^2$ /NDF: 4.9/4

# diff\_bpm0l01X\_rms vs slug



Right In: 3034.960 $\pm$ 1.989  $\chi^2$ /NDF: 449.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

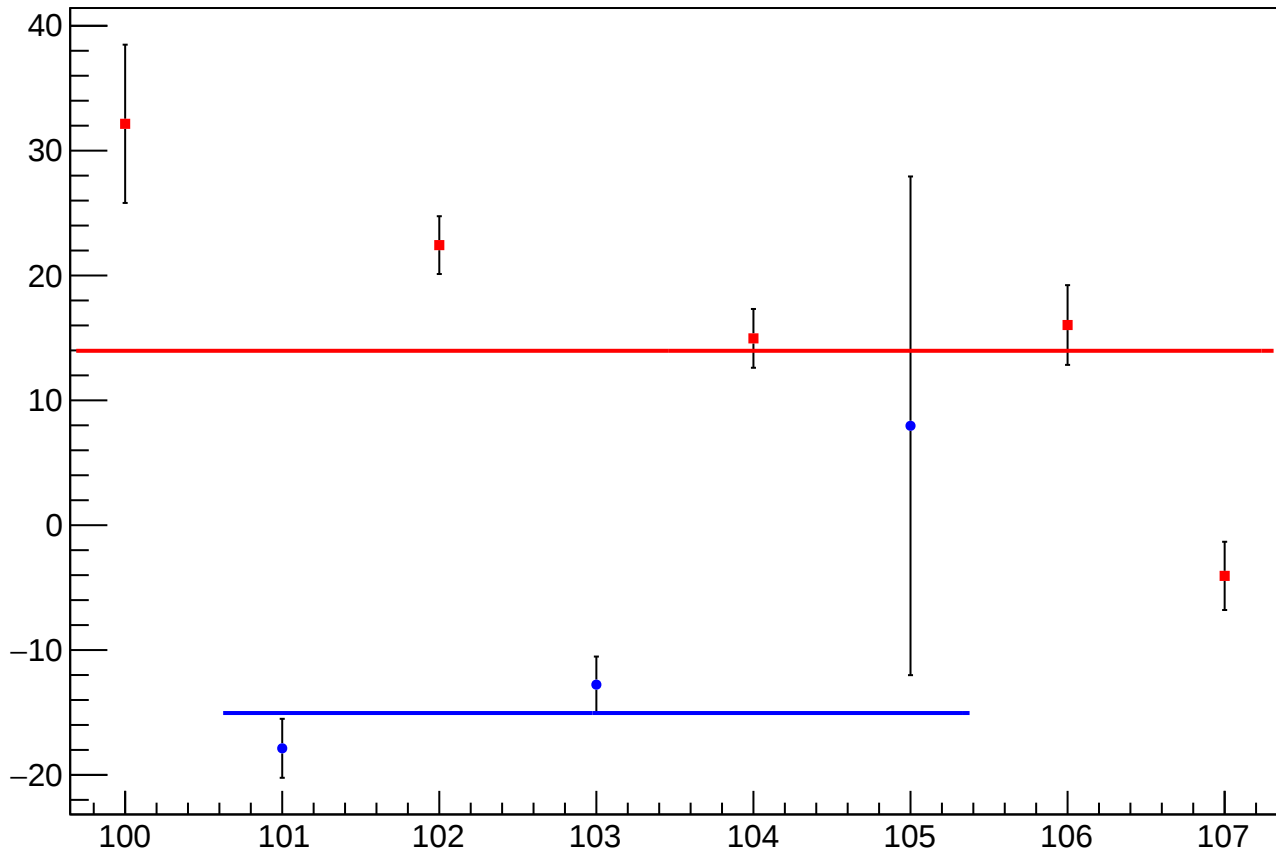
Right Out: 3038.402 $\pm$ 1.616  $\chi^2$ /NDF: 1749.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

3034.960 $\pm$ 1.989  $\chi^2$ /NDF: 449.4/2

3038.402 $\pm$ 1.616  $\chi^2$ /NDF: 1749.4/4

diff\_bpm0l01Y\_mean vs slug



Right In: -15.044 $\pm$ 1.624  $\chi^2$ /NDF: 3.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

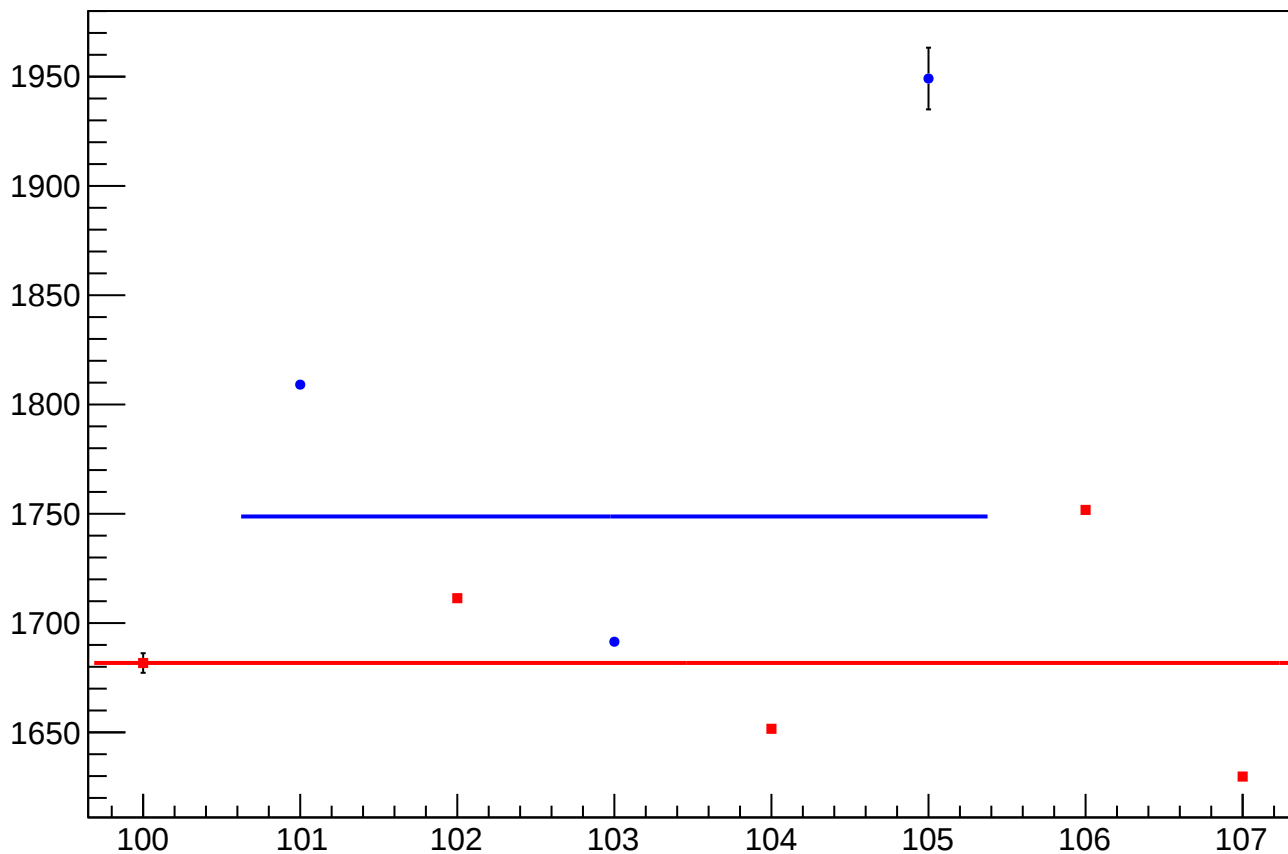
Right Out: 13.969 $\pm$ 1.266  $\chi^2$ /NDF: 65.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-15.044 $\pm$ 1.624  $\chi^2$ /NDF: 3.8/2

13.969 $\pm$ 1.266  $\chi^2$ /NDF: 65.7/4

# diff\_bpm0l01Y\_rms vs slug



Right In: 1748.770 $\pm$ 1.148  $\chi^2$ /NDF: 2803.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

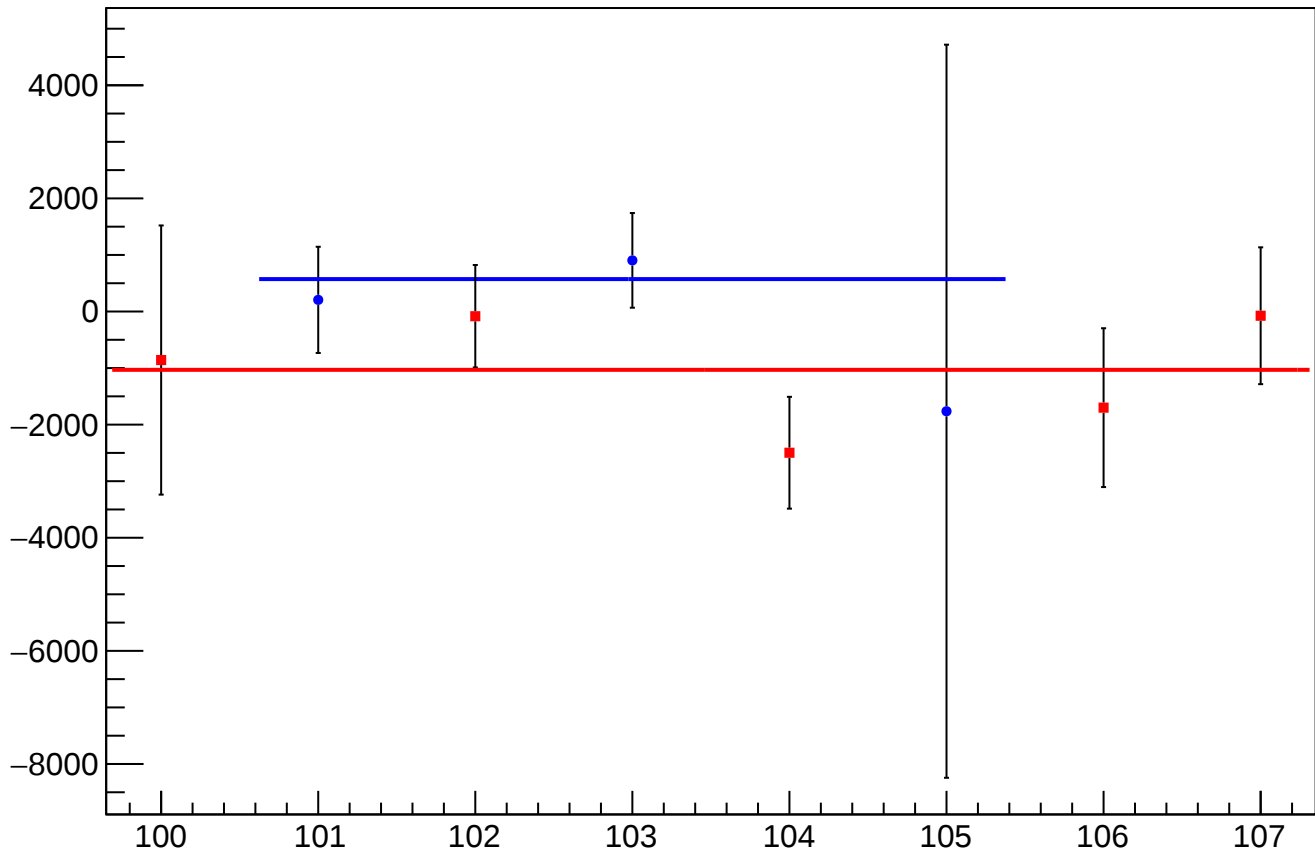
Right Out: 1681.758 $\pm$ 0.895  $\chi^2$ /NDF: 2340.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1748.770 $\pm$ 1.148  $\chi^2$ /NDF: 2803.1/2

1681.758 $\pm$ 0.895  $\chi^2$ /NDF: 2340.2/4

# asym\_sam1\_mean vs slug



Right In: 573.111+/-621.842  $\chi^2/\text{NDF}$ : 0.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

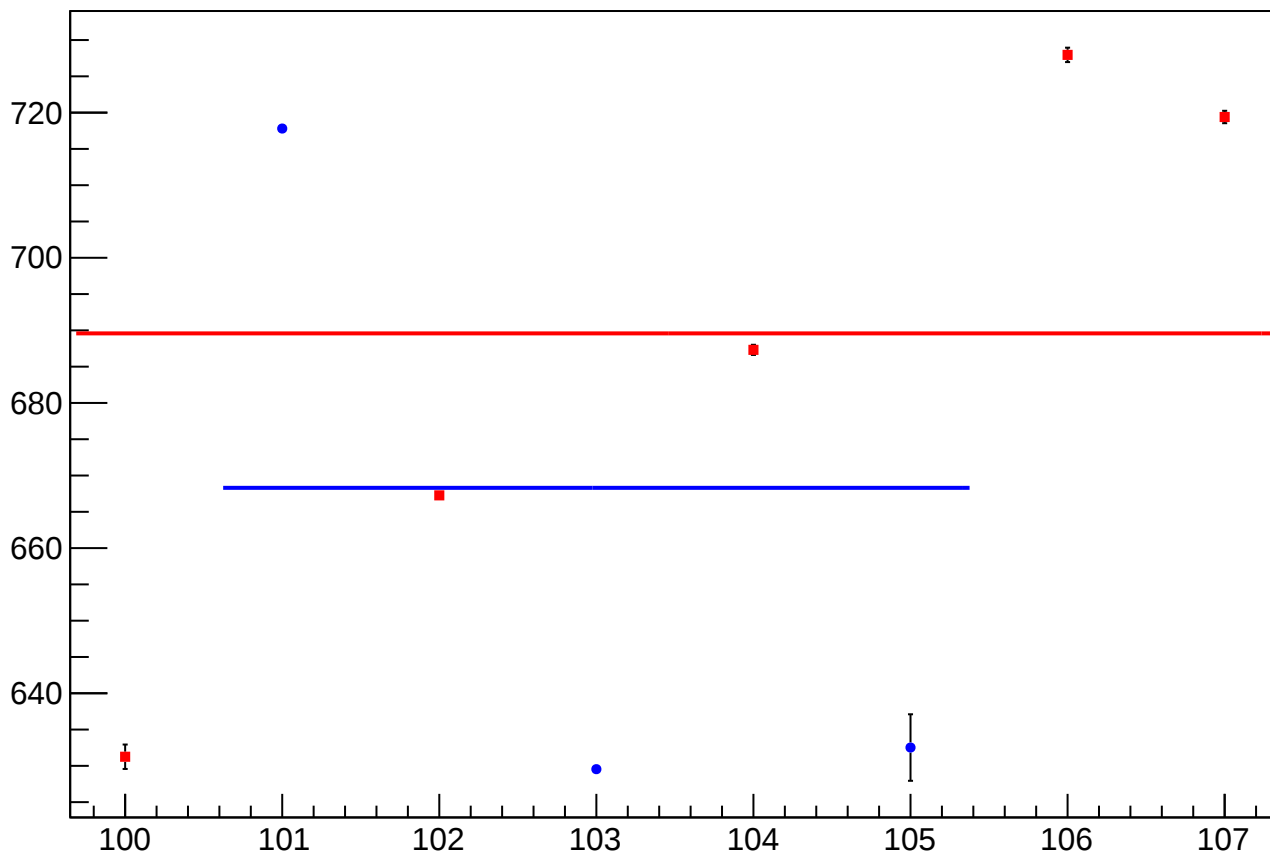
573.111+/-621.842  $\chi^2/\text{NDF}$ : 0.4/2

Right Out: -1031.094+/-526.308  $\chi^2/\text{NDF}$ : 4.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1031.094+/-526.308  $\chi^2/\text{NDF}$ : 4.2/4

# asym\_sam1\_rms vs slug



Right In: 668.304+/-0.440  $\chi^2/\text{NDF}$ : 9912.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

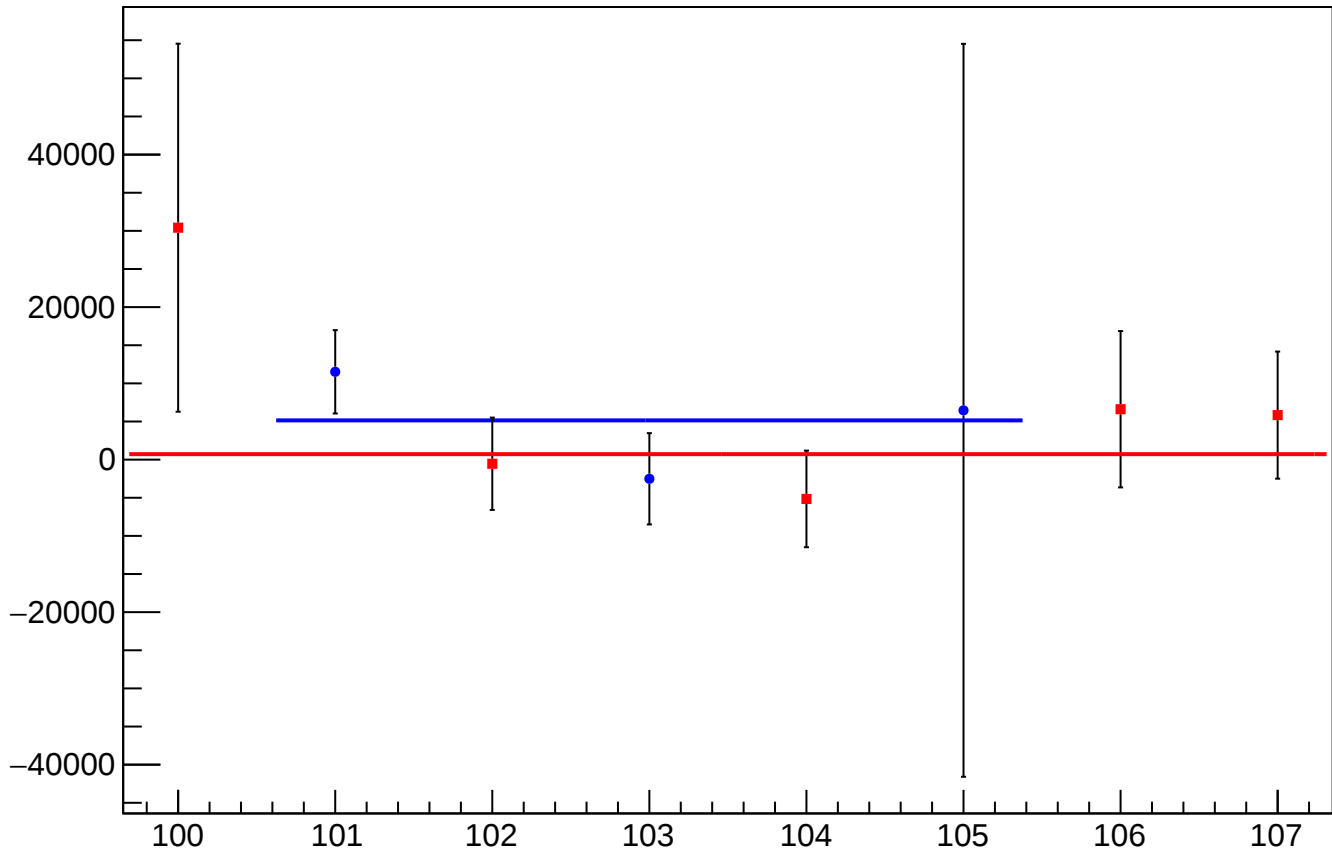
Right Out: 689.584+/-0.372  $\chi^2/\text{NDF}$ : 5135.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

668.304+/-0.440  $\chi^2/\text{NDF}$ : 9912.0/2

689.584+/-0.372  $\chi^2/\text{NDF}$ : 5135.4/4

# asym\_sam2\_mean vs slug



Right In: 5146.069 $\pm$ 4021.290  $\chi^2$ /NDF: 3.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

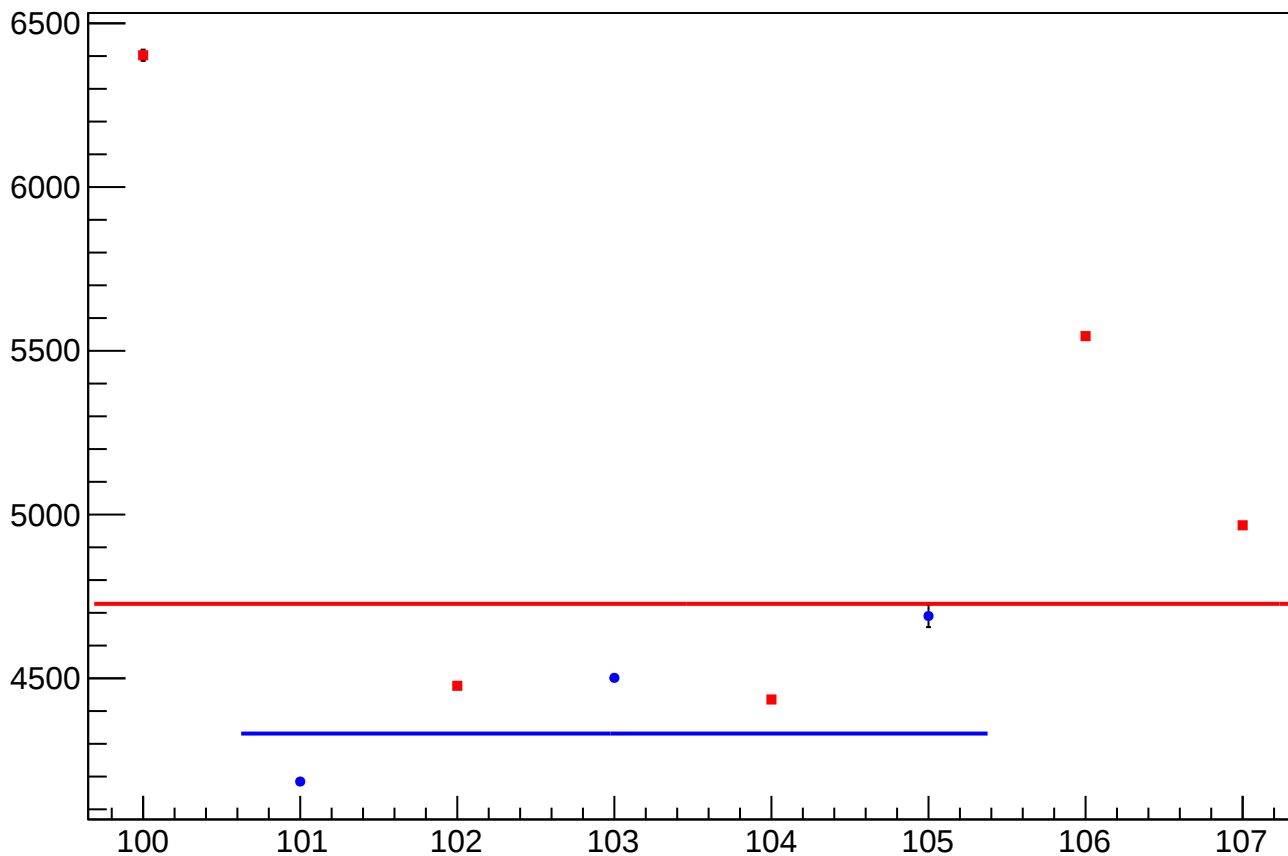
Right Out: 718.955 $\pm$ 3584.123  $\chi^2$ /NDF: 3.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

5146.069 $\pm$ 4021.290  $\chi^2$ /NDF: 3.0/2

718.955 $\pm$ 3584.123  $\chi^2$ /NDF: 3.1/4

# asym\_sam2\_rms vs slug



Right In: 4331.359+/-2.843  $\chi^2/\text{NDF}$ : 3163.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

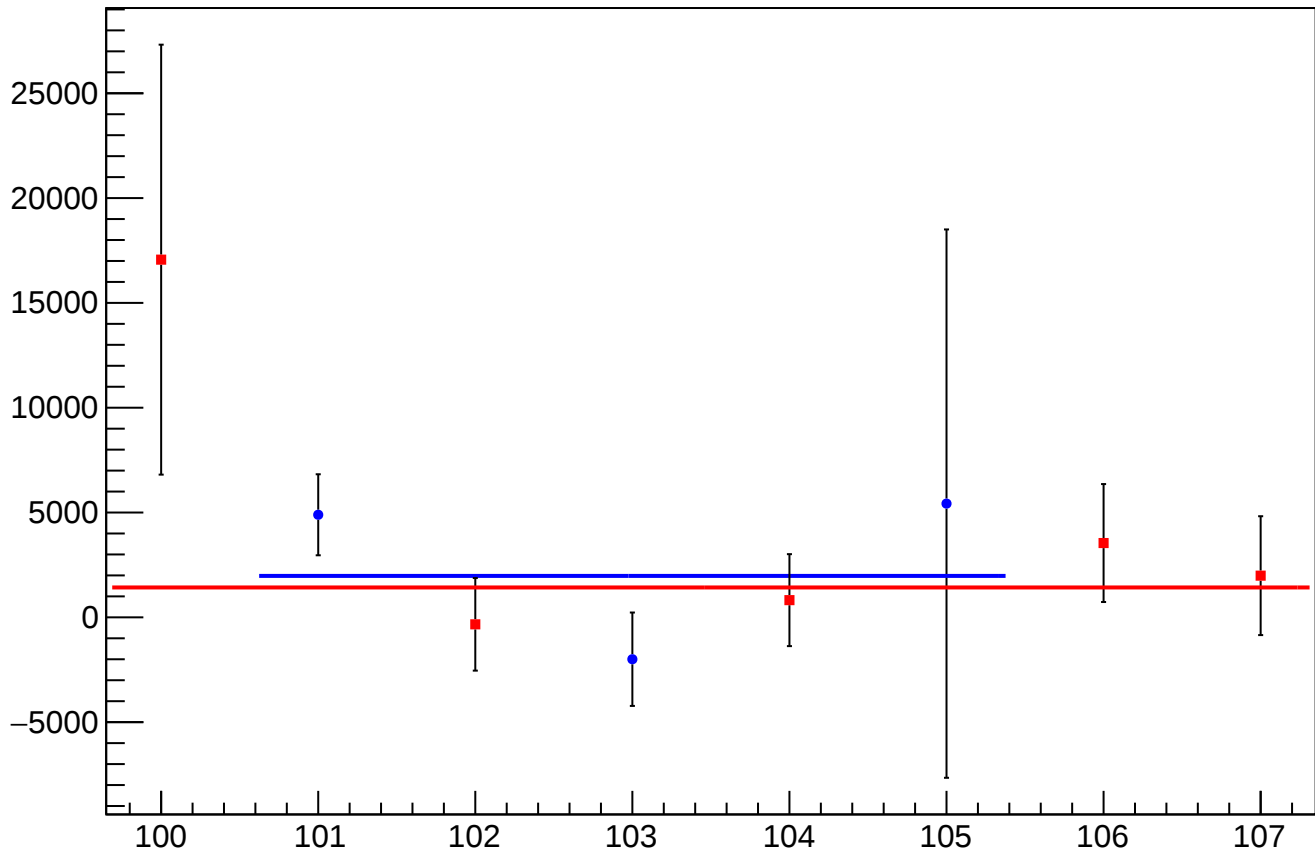
Right Out: 4727.446+/-2.534  $\chi^2/\text{NDF}$ : 31683.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4331.359+/-2.843  $\chi^2/\text{NDF}$ : 3163.8/2

4727.446+/-2.534  $\chi^2/\text{NDF}$ : 31683.6/4

# asym\_sam3\_mean vs slug



Right In: 1976.571 $\pm$ 1450.828  $\chi^2$ /NDF: 5.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

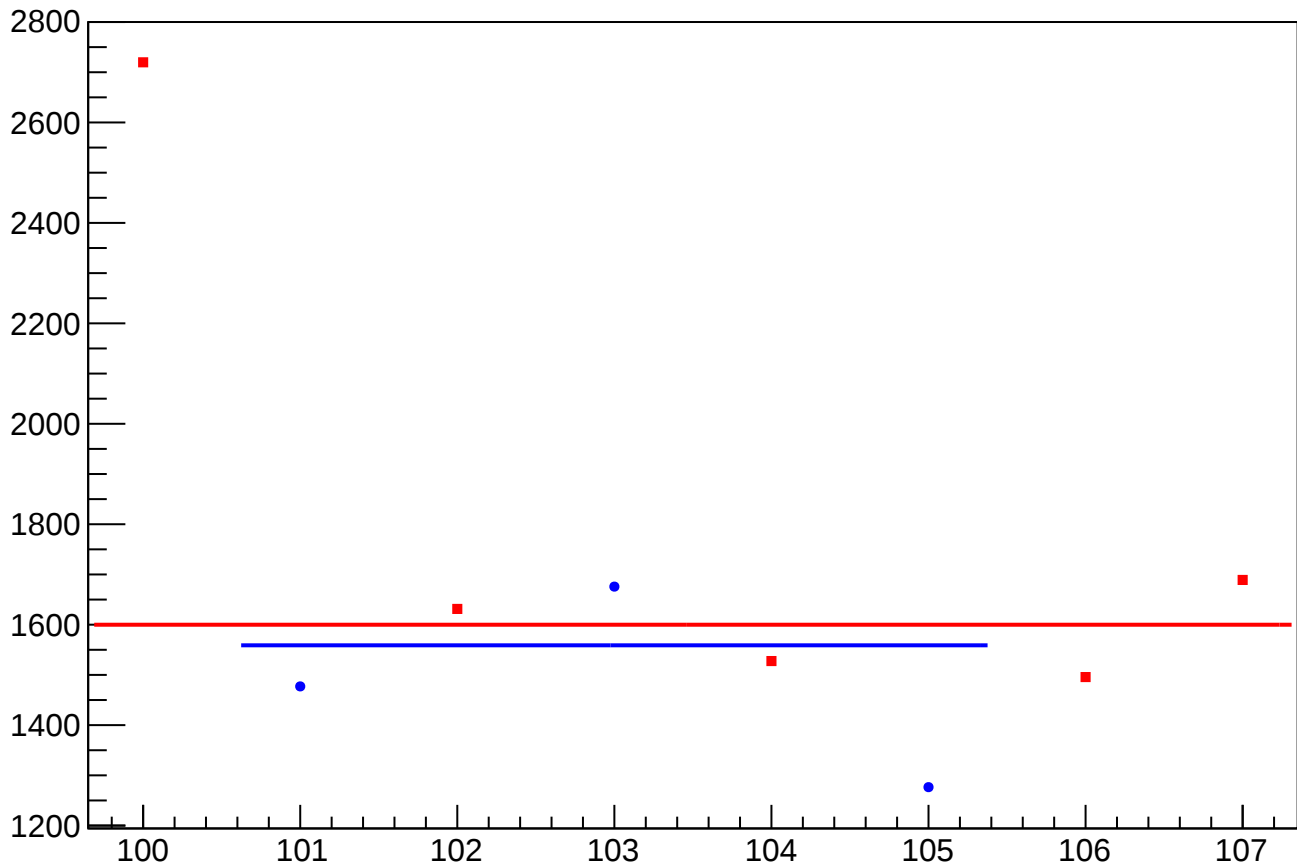
Right Out: 1425.438 $\pm$ 1218.815  $\chi^2$ /NDF: 3.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1976.571 $\pm$ 1450.828  $\chi^2$ /NDF: 5.5/2

1425.438 $\pm$ 1218.815  $\chi^2$ /NDF: 3.6/4

# asym\_sam3\_rms vs slug



Right In: 1558.923+/-1.026  $\chi^2/\text{NDF}$ : 10020.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

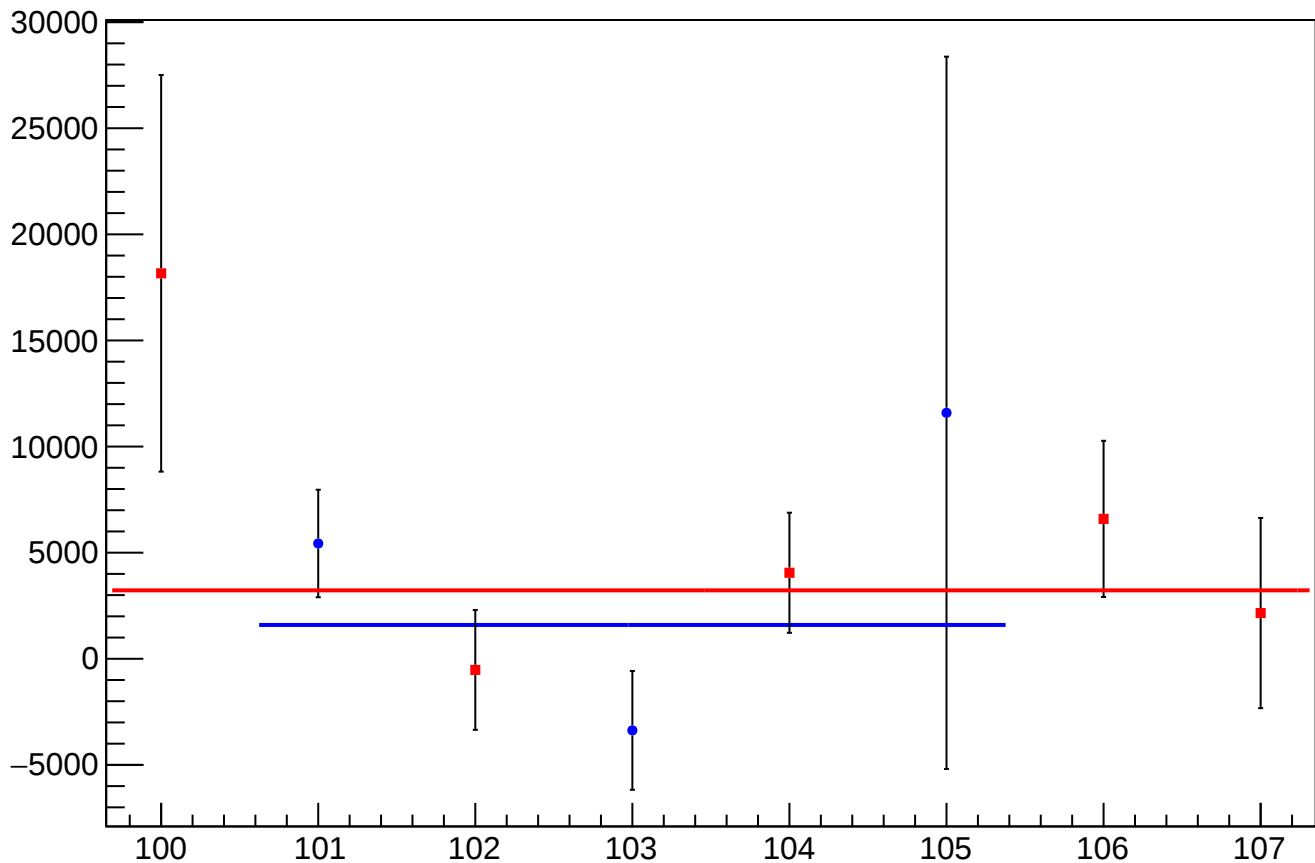
1558.923+/-1.026  $\chi^2/\text{NDF}$ : 10020.9/2

Right Out: 1599.908+/-0.862  $\chi^2/\text{NDF}$ : 31149.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1599.908+/-0.862  $\chi^2/\text{NDF}$ : 31149.8/4

# asym\_sam4\_mean vs slug



Right In: 1594.252+/-1866.597  $\chi^2/\text{NDF}$ : 5.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

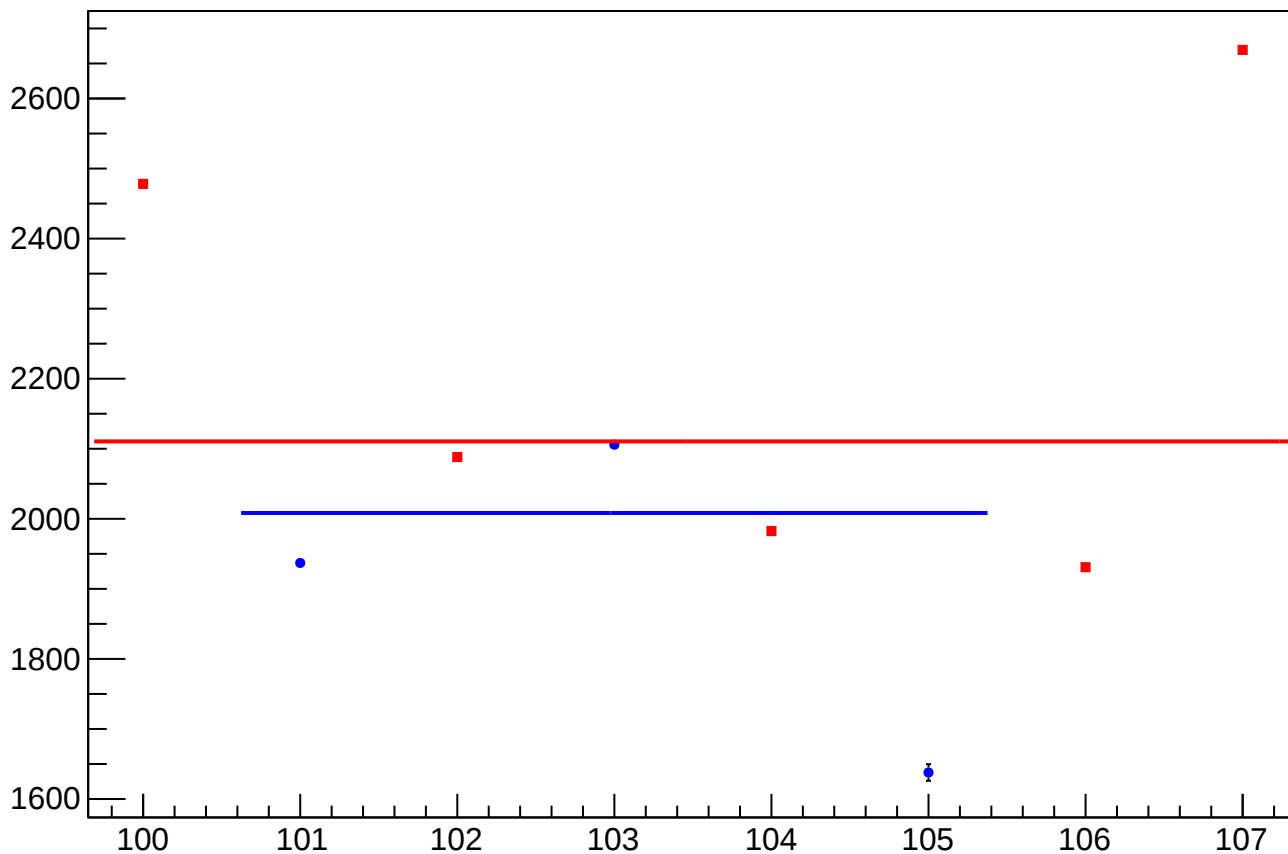
Right Out: 3224.778+/-1610.766  $\chi^2/\text{NDF}$ : 5.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1594.252+/-1866.597  $\chi^2/\text{NDF}$ : 5.8/2

3224.778+/-1610.766  $\chi^2/\text{NDF}$ : 5.3/4

# asym\_sam4\_rms vs slug



Right In: 2008.330 $\pm$ 1.320  $\chi^2$ /NDF: 4987.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

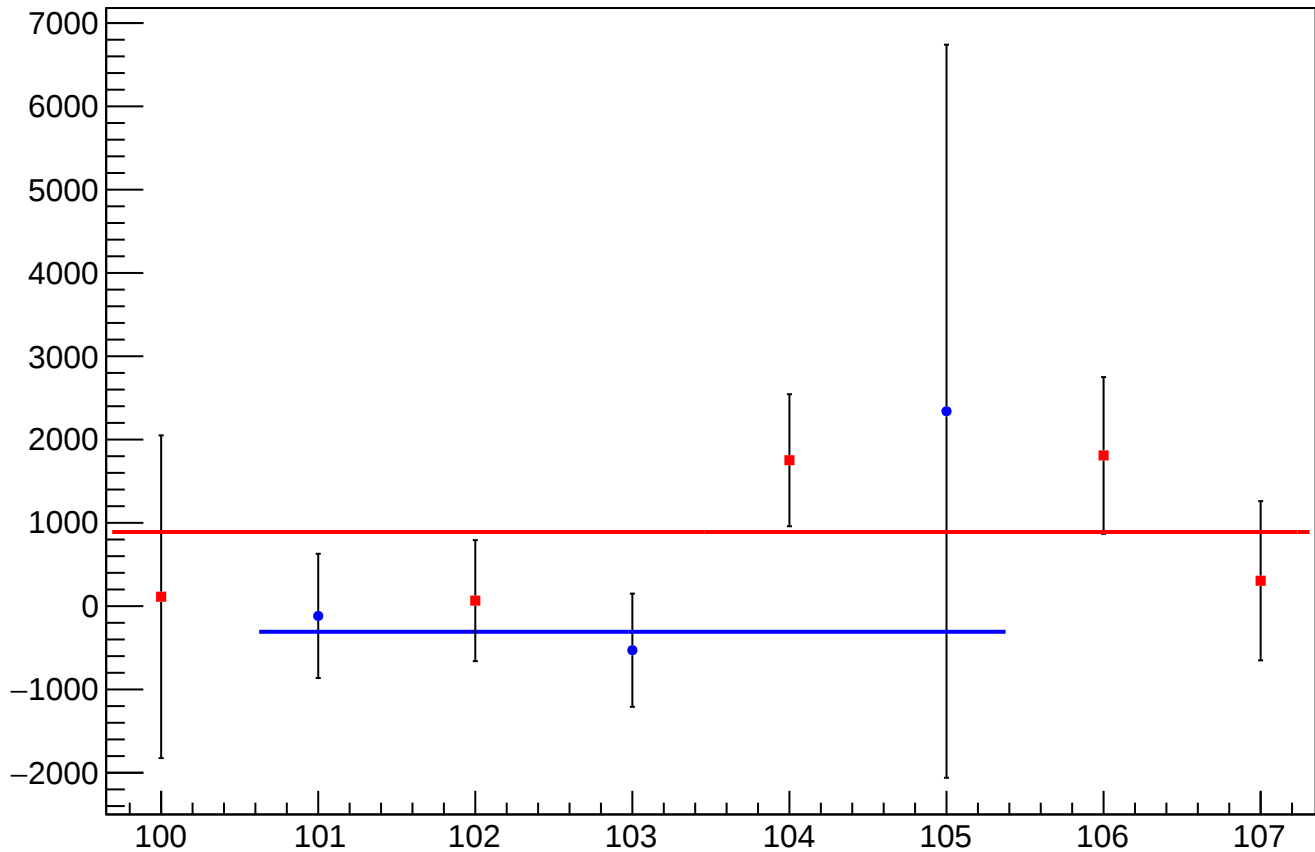
Right Out: 2110.502 $\pm$ 1.139  $\chi^2$ /NDF: 43191.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2008.330 $\pm$ 1.320  $\chi^2$ /NDF: 4987.3/2

2110.502 $\pm$ 1.139  $\chi^2$ /NDF: 43191.3/4

# asym\_sam5\_mean vs slug



Right In: -307.640+/-499.073  $\chi^2/\text{NDF}$ : 0.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

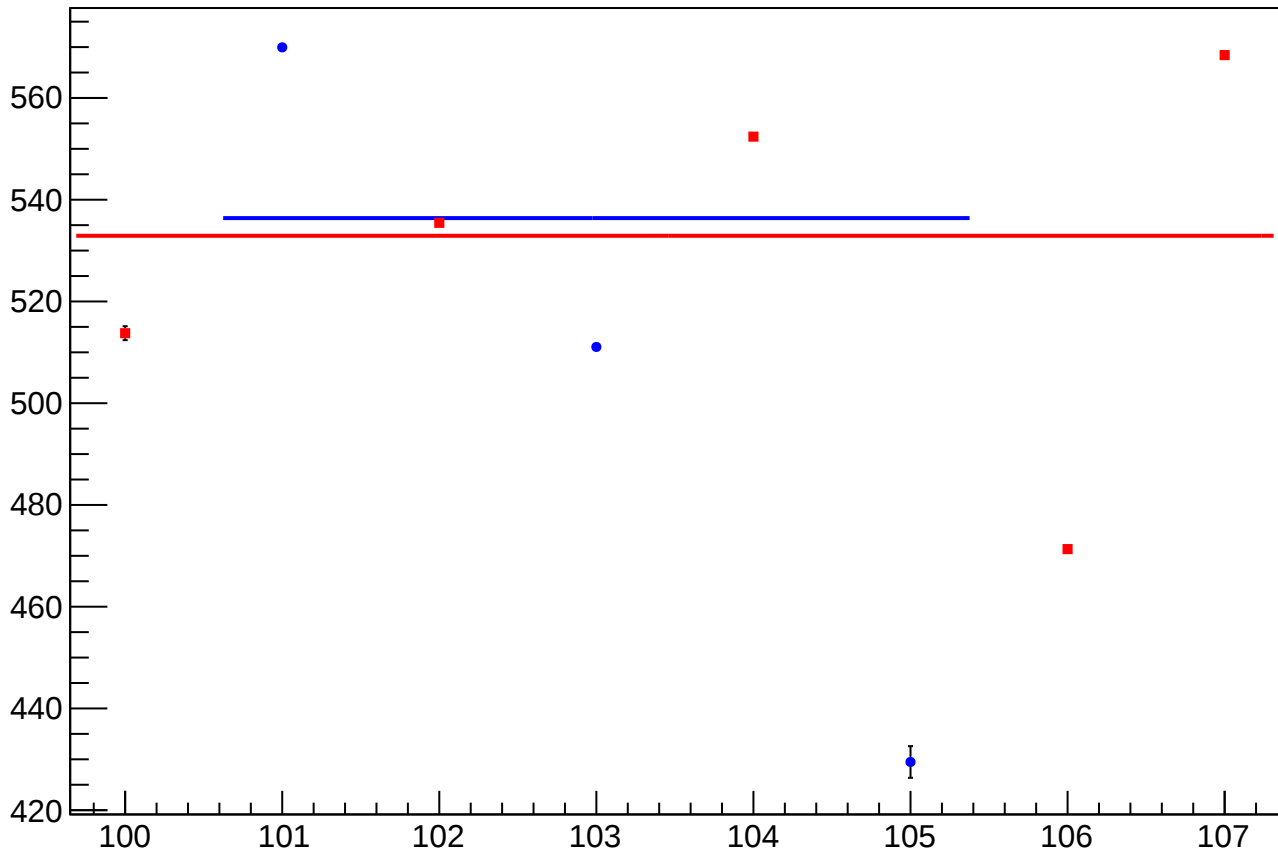
Right Out: 890.439+/-409.005  $\chi^2/\text{NDF}$ : 4.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-307.640+/-499.073  $\chi^2/\text{NDF}$ : 0.5/2

890.439+/-409.005  $\chi^2/\text{NDF}$ : 4.0/4

# asym\_sam5\_rms vs slug



Right In: 536.388 $\pm$ 0.353  $\chi^2$ /NDF: 8009.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

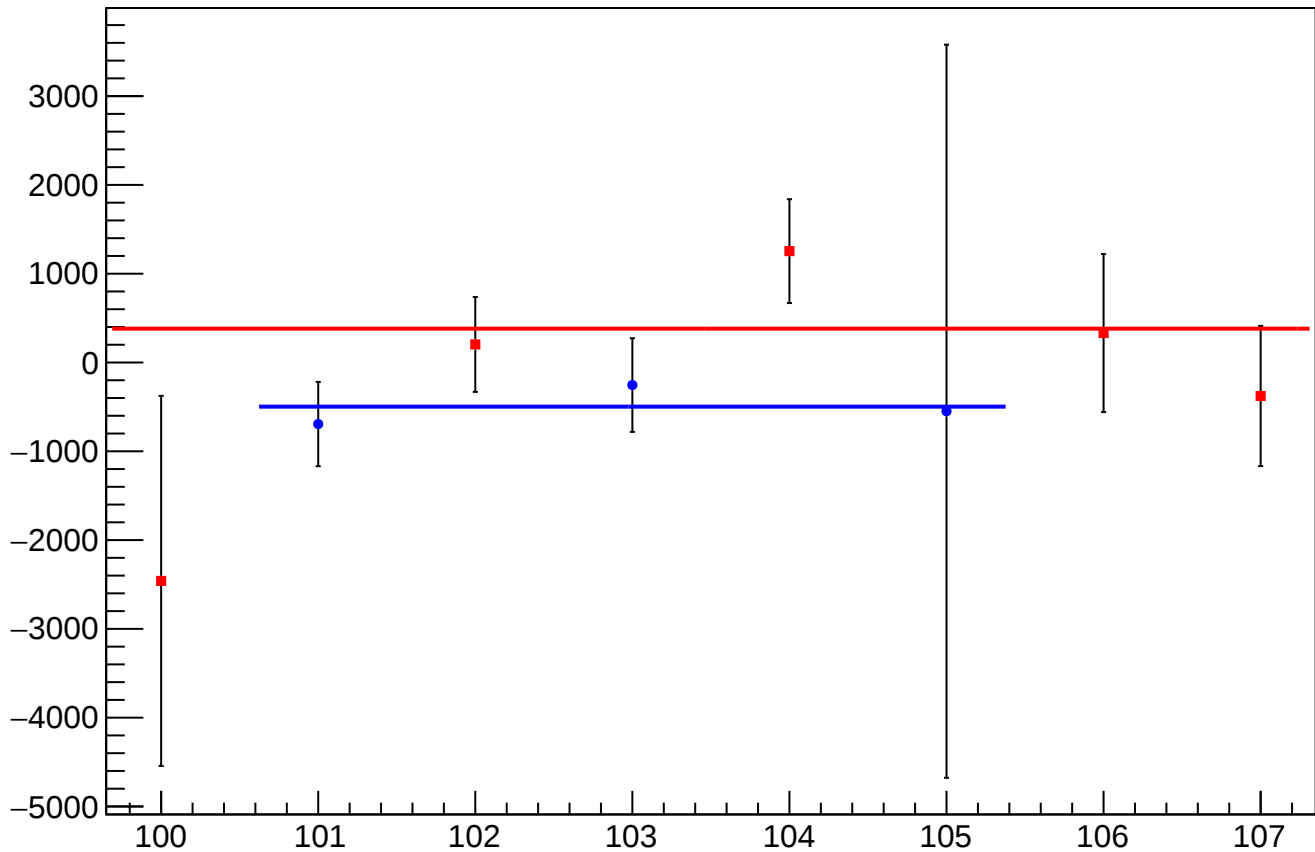
536.388 $\pm$ 0.353  $\chi^2$ /NDF: 8009.2/2

Right Out: 532.913 $\pm$ 0.289  $\chi^2$ /NDF: 12767.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

532.913 $\pm$ 0.289  $\chi^2$ /NDF: 12767.9/4

# asym\_sam6\_mean vs slug



Right In: -497.215+/-351.539  $\chi^2/\text{NDF}$ : 0.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

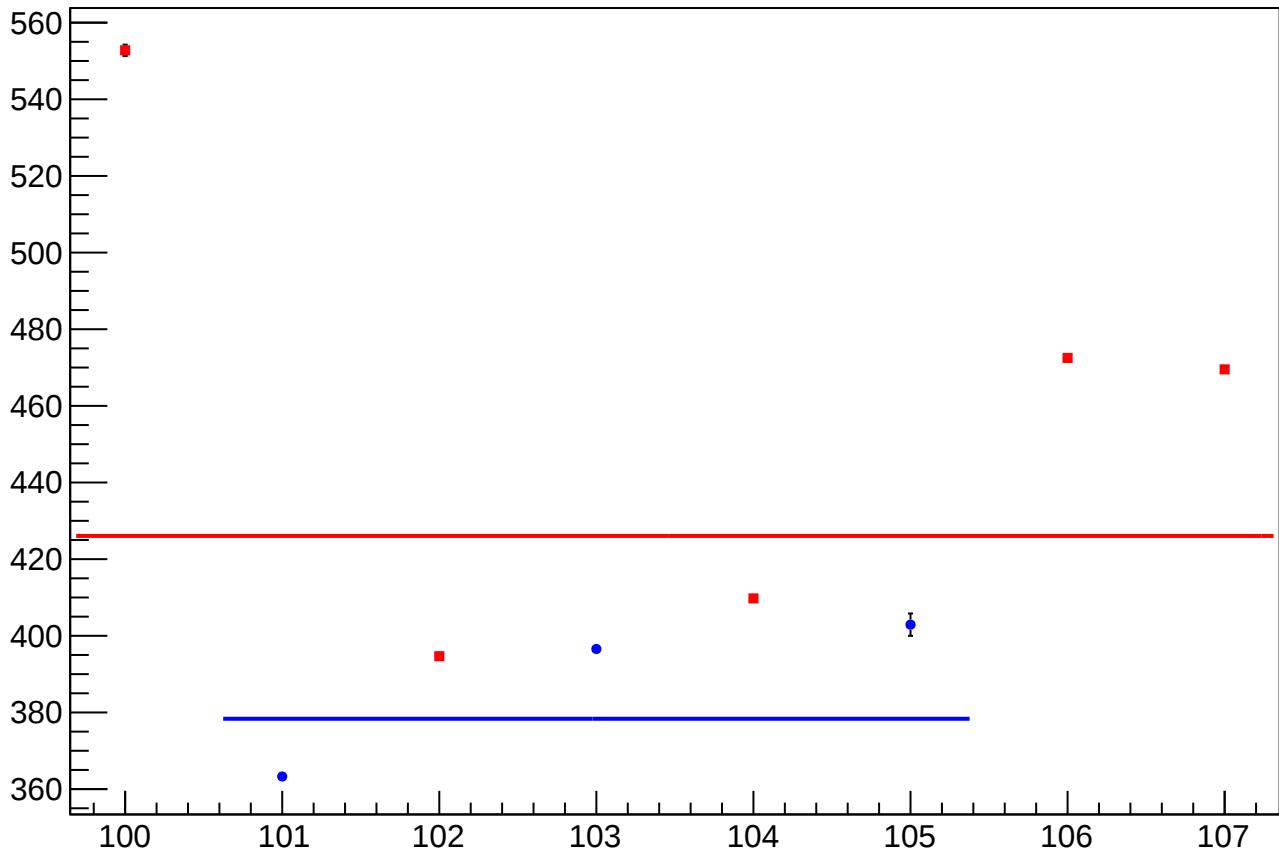
Right Out: 380.960+/-324.037  $\chi^2/\text{NDF}$ : 5.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-497.215+/-351.539  $\chi^2/\text{NDF}$ : 0.4/2

380.960+/-324.037  $\chi^2/\text{NDF}$ : 5.1/4

# asym\_sam6\_rms vs slug



Right In: 378.353+/-0.249  $\chi^2/\text{NDF}$ : 4470.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

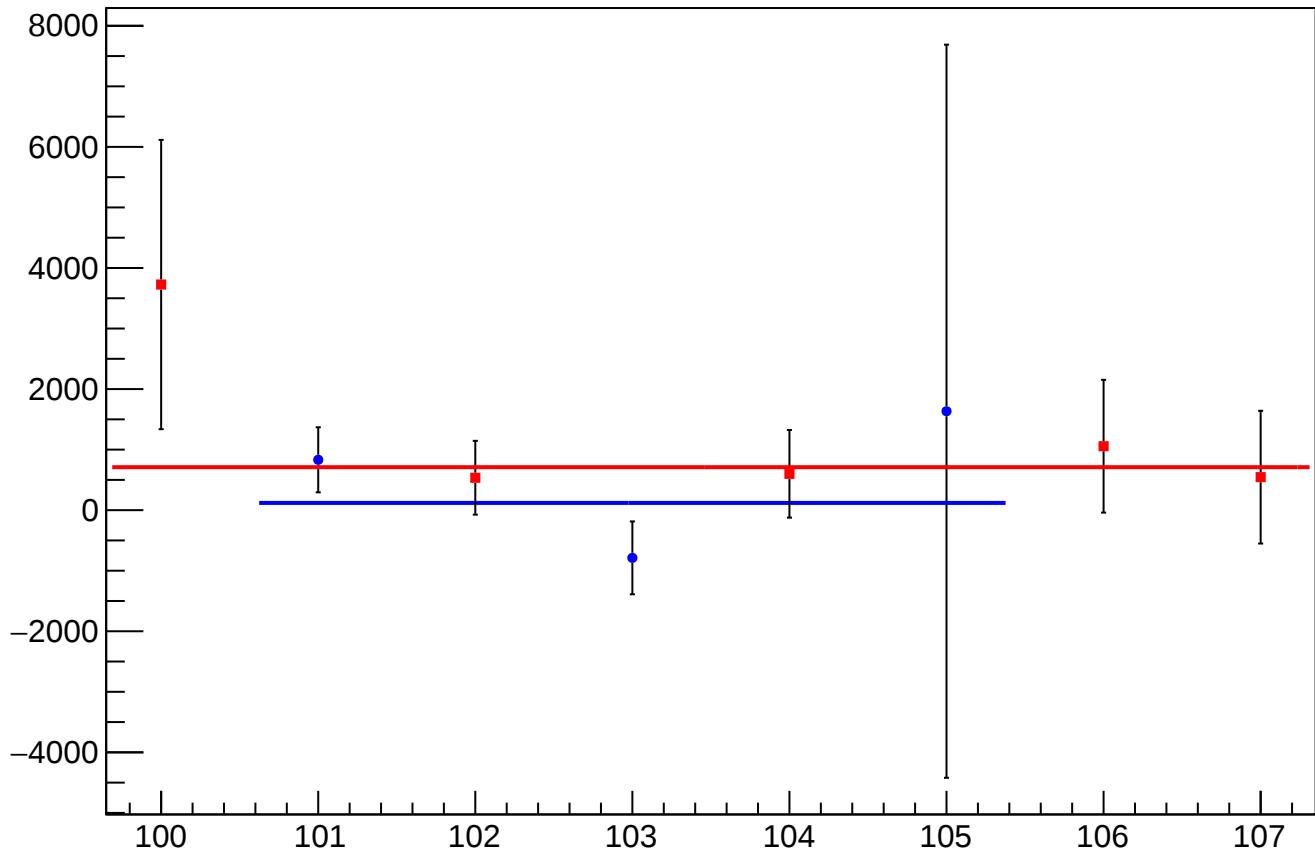
378.353+/-0.249  $\chi^2/\text{NDF}$ : 4470.4/2

Right Out: 426.066+/-0.229  $\chi^2/\text{NDF}$ : 27358.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

426.066+/-0.229  $\chi^2/\text{NDF}$ : 27358.6/4

# asym\_sam7\_mean vs slug



Right In: 119.643 $\pm$ 399.966  $\chi^2$ /NDF: 4.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

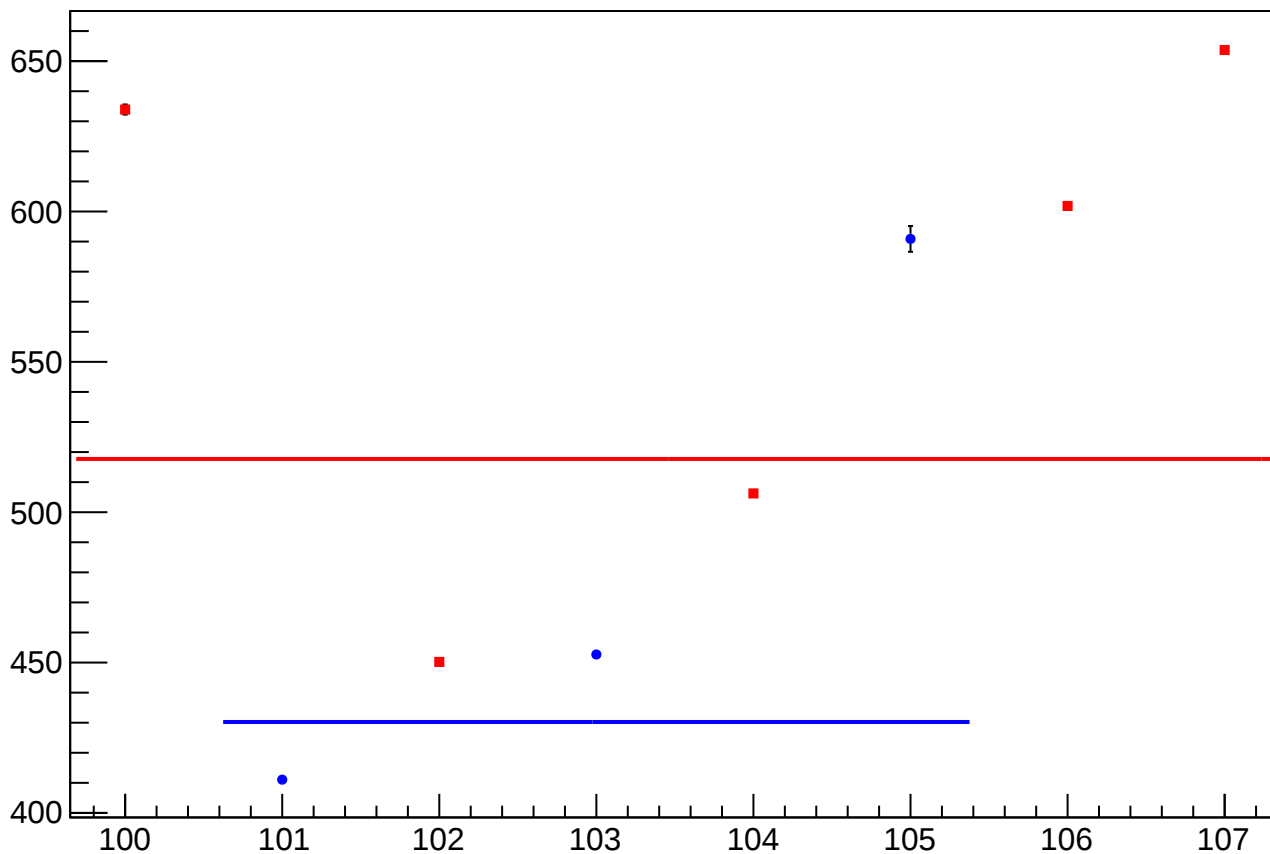
Right Out: 709.981 $\pm$ 394.086  $\chi^2$ /NDF: 1.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

119.643 $\pm$ 399.966  $\chi^2$ /NDF: 4.1/2

709.981 $\pm$ 394.086  $\chi^2$ /NDF: 1.8/4

# asym\_sam7\_rms vs slug



Right In: 430.241 $\pm$ 0.283  $\chi^2$ /NDF: 6738.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

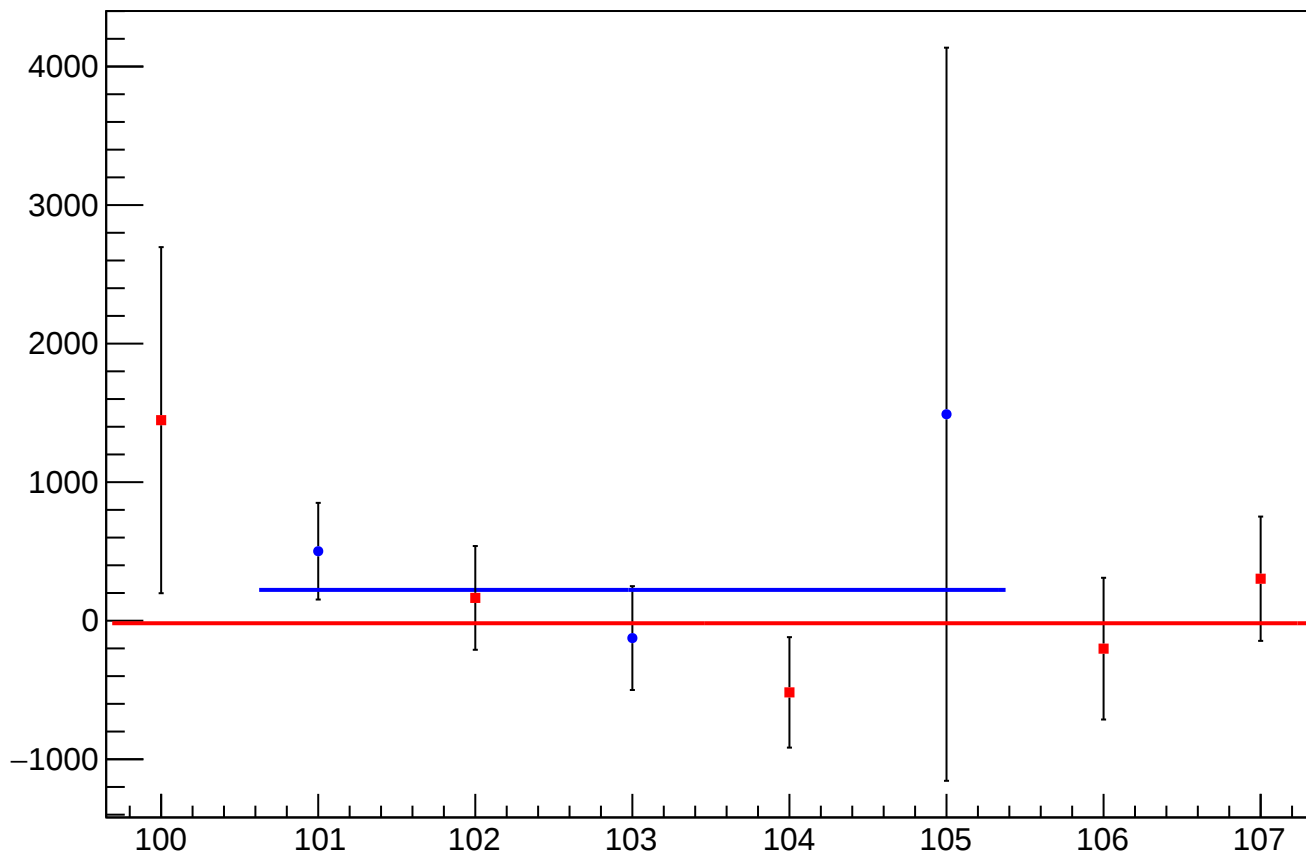
Right Out: 517.711 $\pm$ 0.279  $\chi^2$ /NDF: 72324.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

430.241 $\pm$ 0.283  $\chi^2$ /NDF: 6738.2/2

517.711 $\pm$ 0.279  $\chi^2$ /NDF: 72324.8/4

# asym\_sam8\_mean vs slug



Right In: 222.396+/-254.159  $\chi^2$ /NDF: 1.7/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

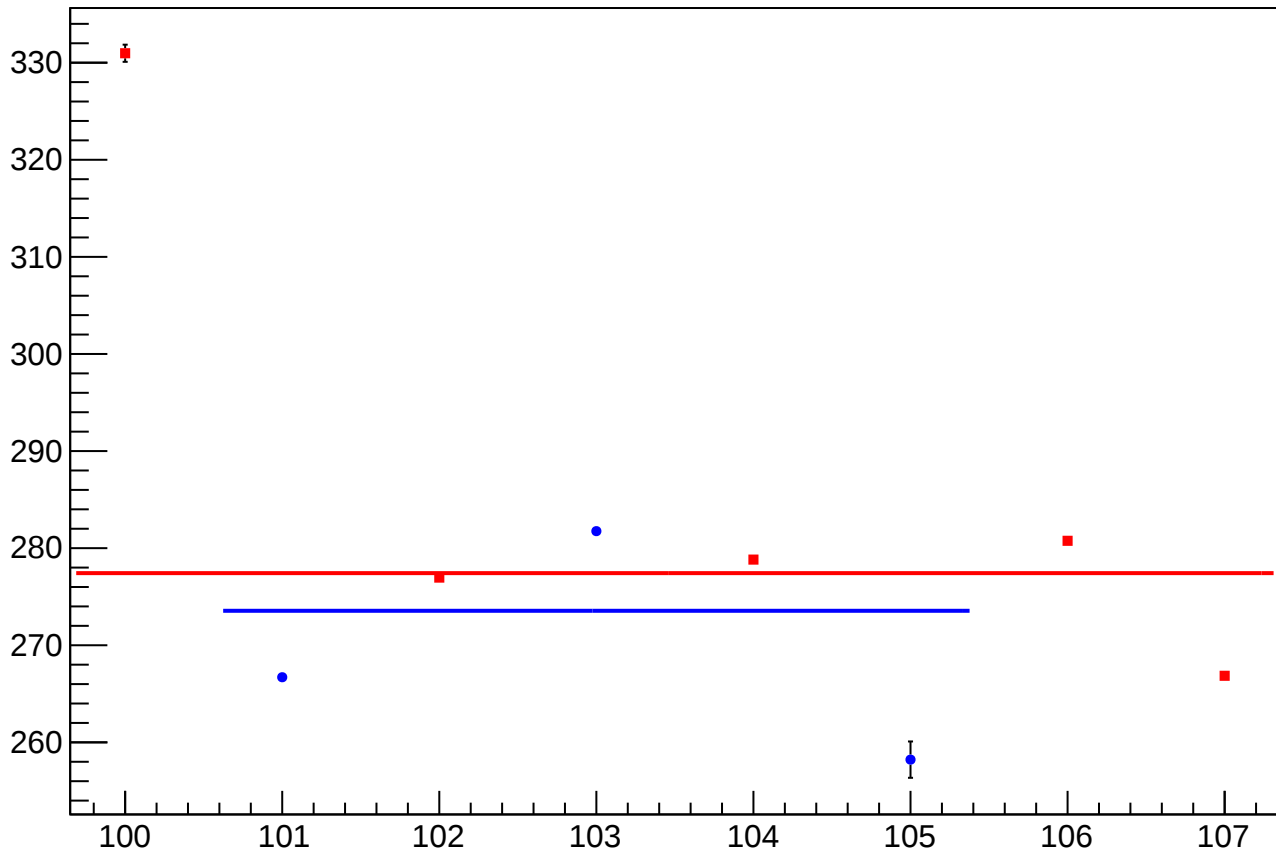
Right Out: -18.312+/-209.161  $\chi^2$ /NDF: 3.8/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

222.396+/-254.159  $\chi^2$ /NDF: 1.7/2

-18.312+/-209.161  $\chi^2$ /NDF: 3.8/4

# asym\_sam8\_rms vs slug



Right In: 273.550 $\pm$ 0.180  $\chi^2$ /NDF: 1795.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

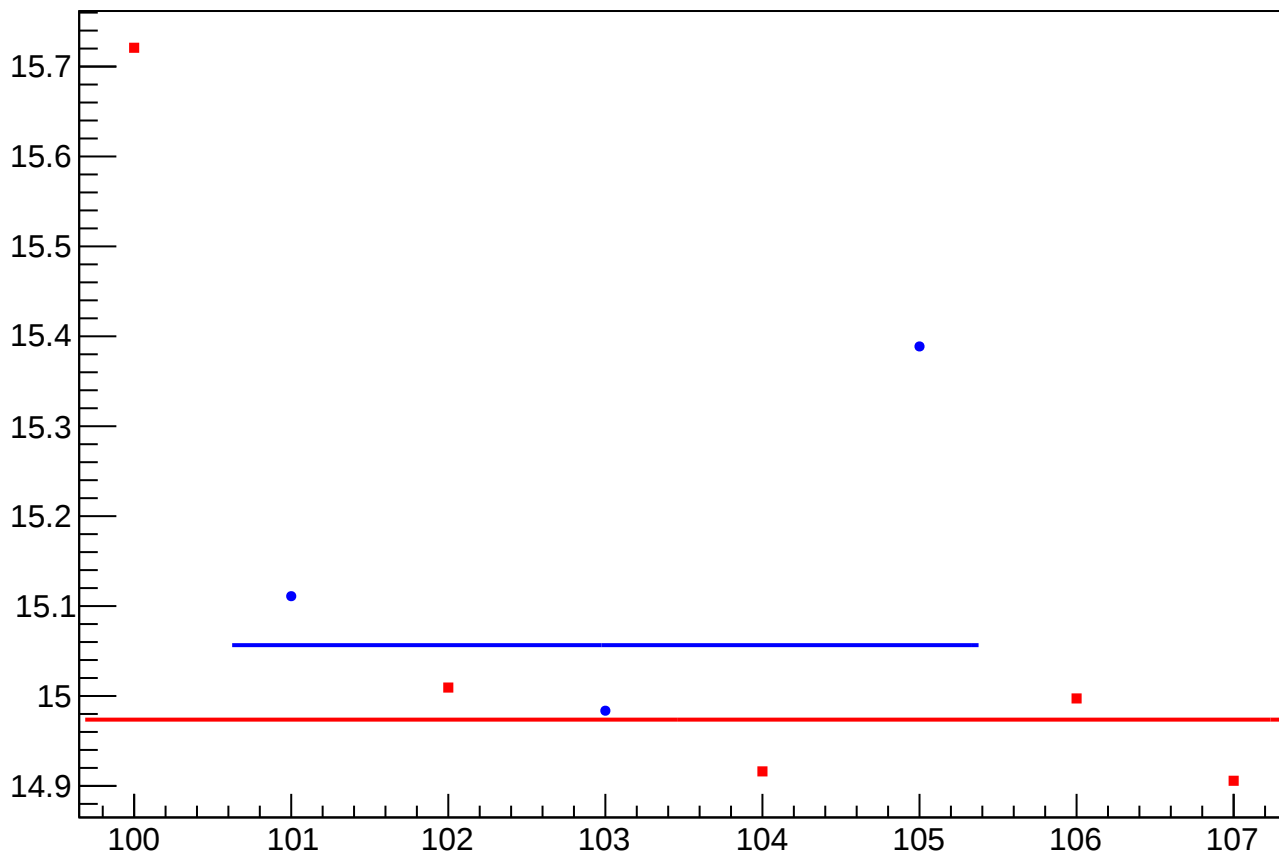
273.550 $\pm$ 0.180  $\chi^2$ /NDF: 1795.2/2

Right Out: 277.429 $\pm$ 0.148  $\chi^2$ /NDF: 4898.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

277.429 $\pm$ 0.148  $\chi^2$ /NDF: 4898.6/4

yield\_sam1\_mean vs slug



Right In: 15.057+/-0.000  $\chi^2/\text{NDF}$ : 9744386.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

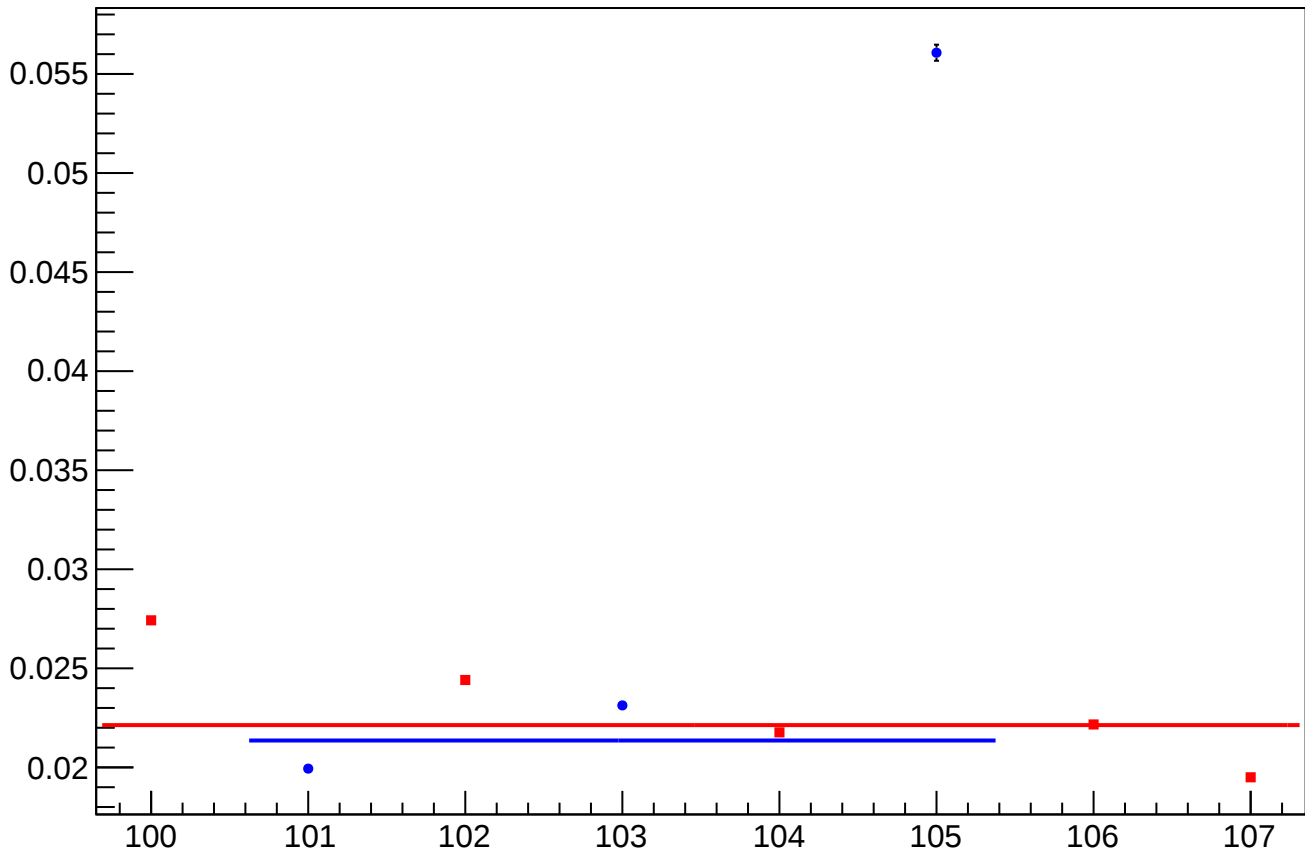
Right Out: 14.974+/-0.000  $\chi^2/\text{NDF}$ : 59259355.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

15.057+/-0.000  $\chi^2/\text{NDF}$ : 9744386.2/2

14.974+/-0.000  $\chi^2/\text{NDF}$ : 59259355.0/4

# yield\_sam1\_rms vs slug



Right In: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 19132.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

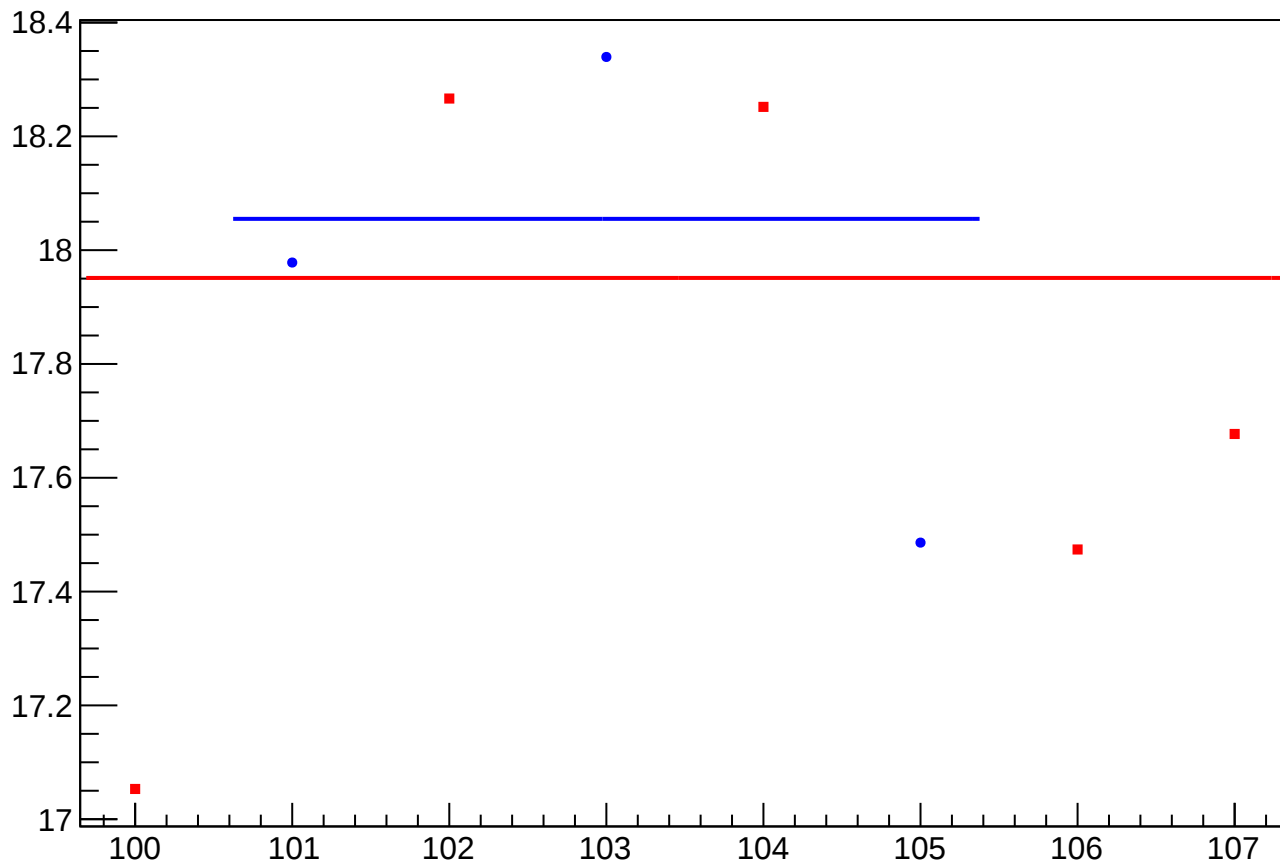
Right Out: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 25262.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.021+/-0.000  $\chi^2/\text{NDF}$ : 19132.0/2

0.022+/-0.000  $\chi^2/\text{NDF}$ : 25262.7/4

# yield\_sam2\_mean vs slug



Right In: 18.055+/-0.000  $\chi^2/\text{NDF}$ : 526386.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

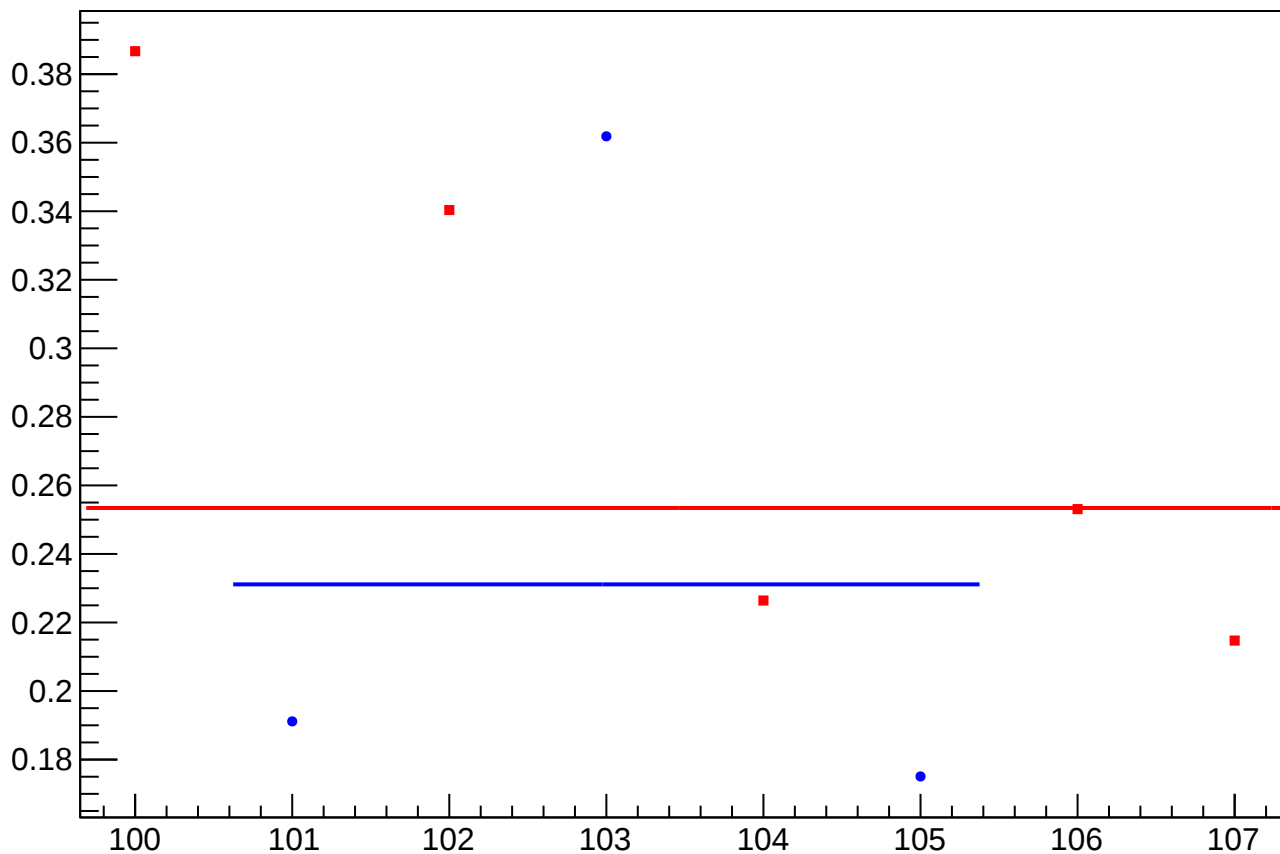
Right Out: 17.951+/-0.000  $\chi^2/\text{NDF}$ : 2759750.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

18.055+/-0.000  $\chi^2/\text{NDF}$ : 526386.5/2

17.951+/-0.000  $\chi^2/\text{NDF}$ : 2759750.1/4

# yield\_sam2\_rms vs slug



Right In: 0.231+/-0.000  $\chi^2/\text{NDF}$ : 191331.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

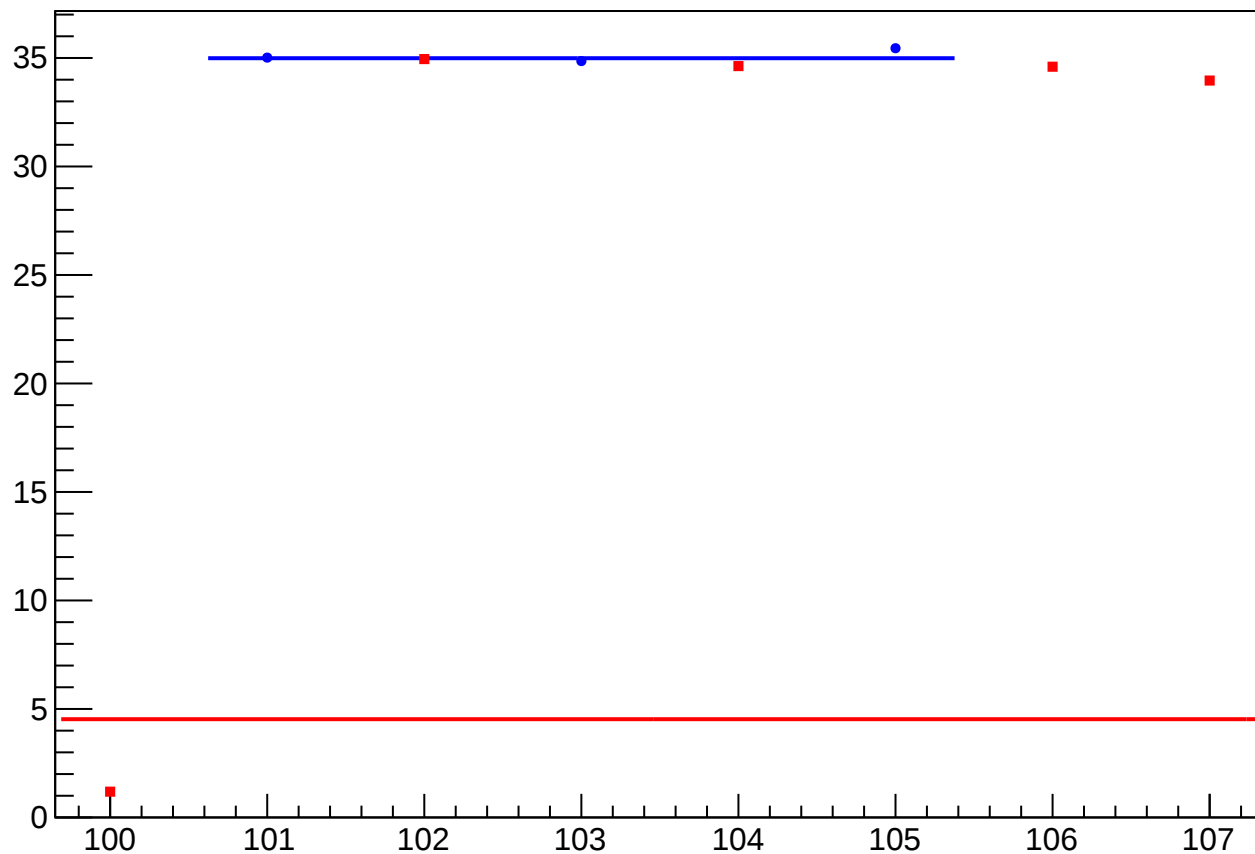
Right Out: 0.253+/-0.000  $\chi^2/\text{NDF}$ : 112512.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.231+/-0.000  $\chi^2/\text{NDF}$ : 191331.2/2

0.253+/-0.000  $\chi^2/\text{NDF}$ : 112512.2/4

# yield\_sam3\_mean vs slug



Right In: 34.989 $\pm$ 0.000  $\chi^2$ /NDF: 211235.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

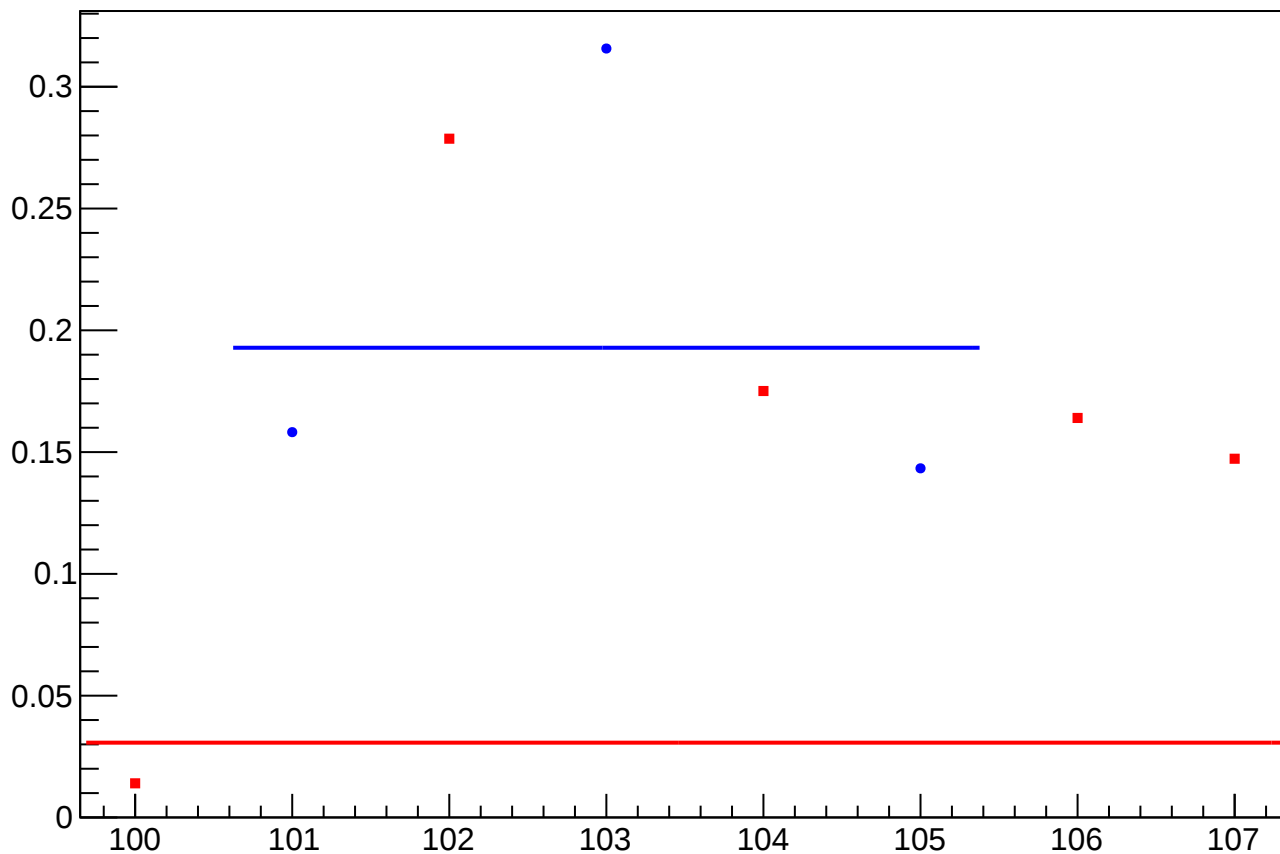
Right Out: 4.529 $\pm$ 0.000  $\chi^2$ /NDF: 39531455917.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

34.989 $\pm$ 0.000  $\chi^2$ /NDF: 211235.7/2

4.529 $\pm$ 0.000  $\chi^2$ /NDF: 39531455917.5/4

# yield\_sam3\_rms vs slug



Right In: 0.193+/-0.000  $\chi^2/\text{NDF}$ : 218597.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

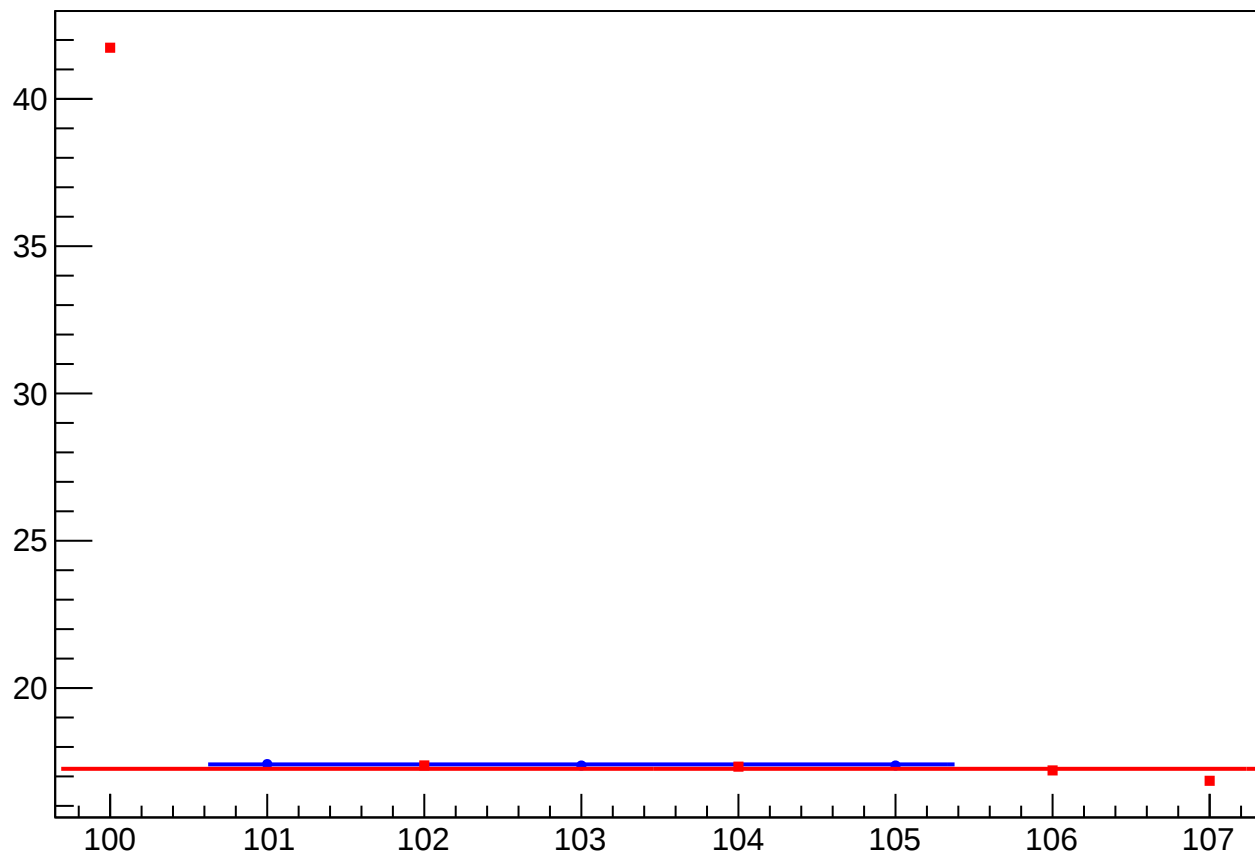
Right Out: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 2130026.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.193+/-0.000  $\chi^2/\text{NDF}$ : 218597.8/2

0.031+/-0.000  $\chi^2/\text{NDF}$ : 2130026.0/4

yield\_sam4\_mean vs slug



Right In: 17.408 $\pm$ 0.000  $\chi^2$ /NDF: 33059.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

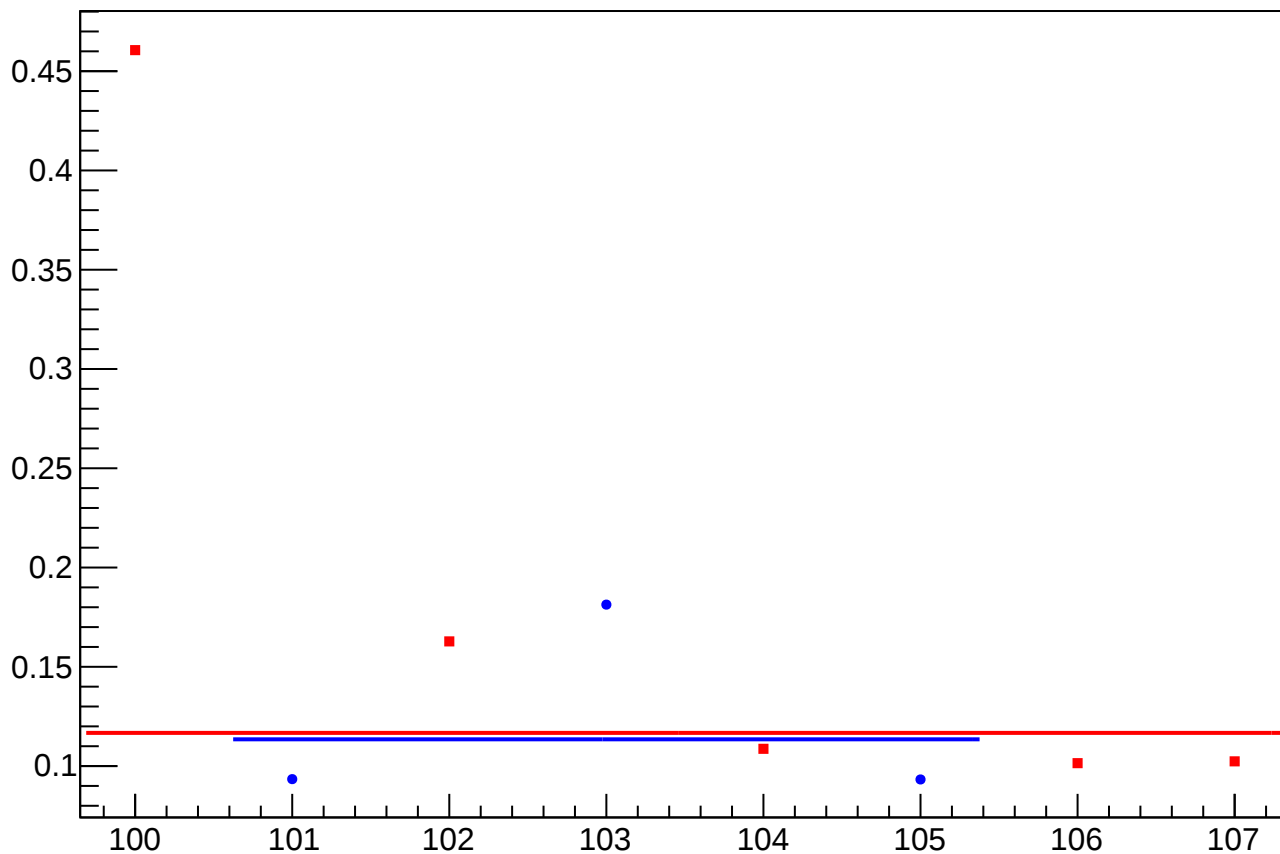
Right Out: 17.258 $\pm$ 0.000  $\chi^2$ /NDF: 200904373.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

17.408 $\pm$ 0.000  $\chi^2$ /NDF: 33059.4/2

17.258 $\pm$ 0.000  $\chi^2$ /NDF: 200904373.5/4

# yield\_sam4\_rms vs slug



Right In: 0.113+/-0.000  $\chi^2/\text{NDF}$ : 203333.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

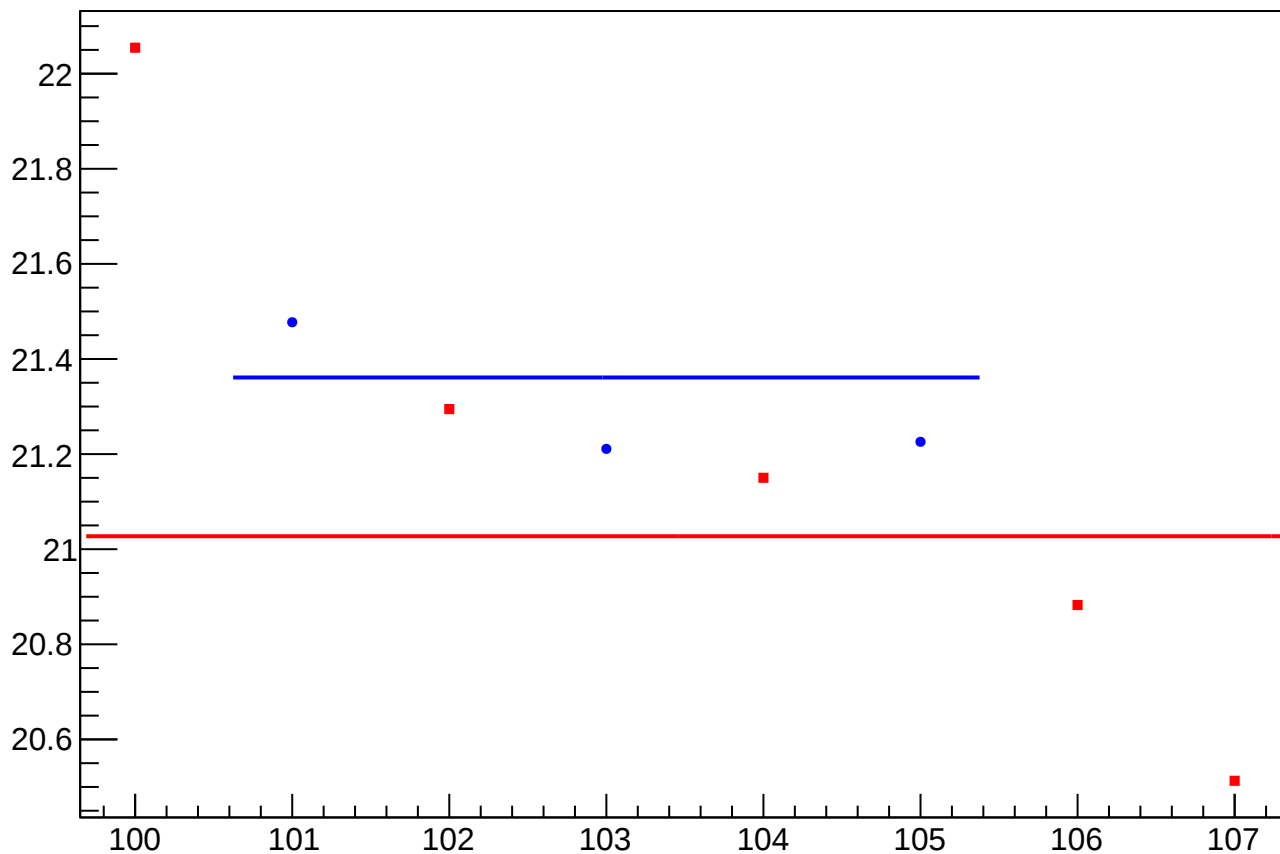
Right Out: 0.117+/-0.000  $\chi^2/\text{NDF}$ : 183235.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.113+/-0.000  $\chi^2/\text{NDF}$ : 203333.5/2

0.117+/-0.000  $\chi^2/\text{NDF}$ : 183235.5/4

# yield\_sam5\_mean vs slug



Right In: 21.361+/-0.000  $\chi^2/\text{NDF}$ : 33480417.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

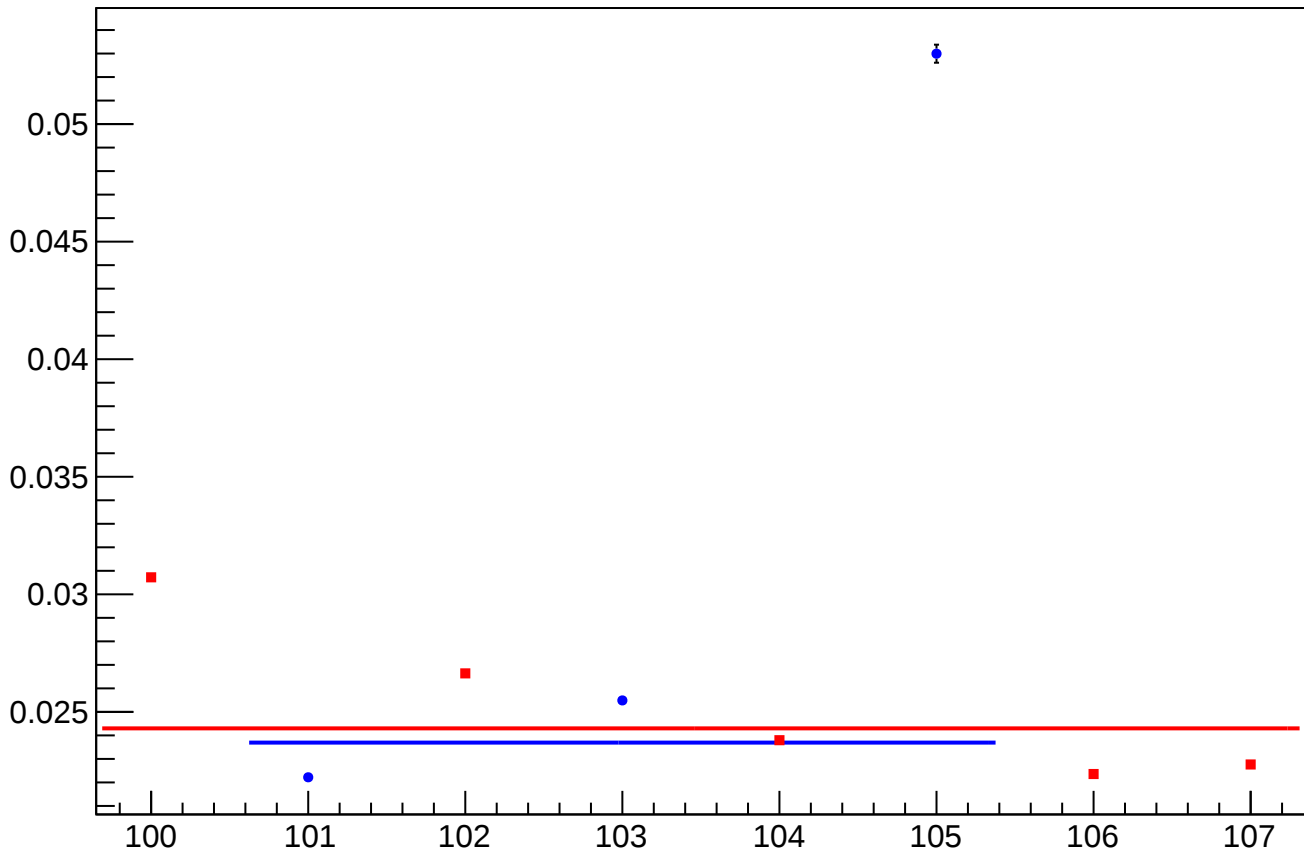
Right Out: 21.027+/-0.000  $\chi^2/\text{NDF}$ : 306223930.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

21.361+/-0.000  $\chi^2/\text{NDF}$ : 33480417.7/2

21.027+/-0.000  $\chi^2/\text{NDF}$ : 306223930.3/4

# yield\_sam5\_rms vs slug



Right In: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 15910.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

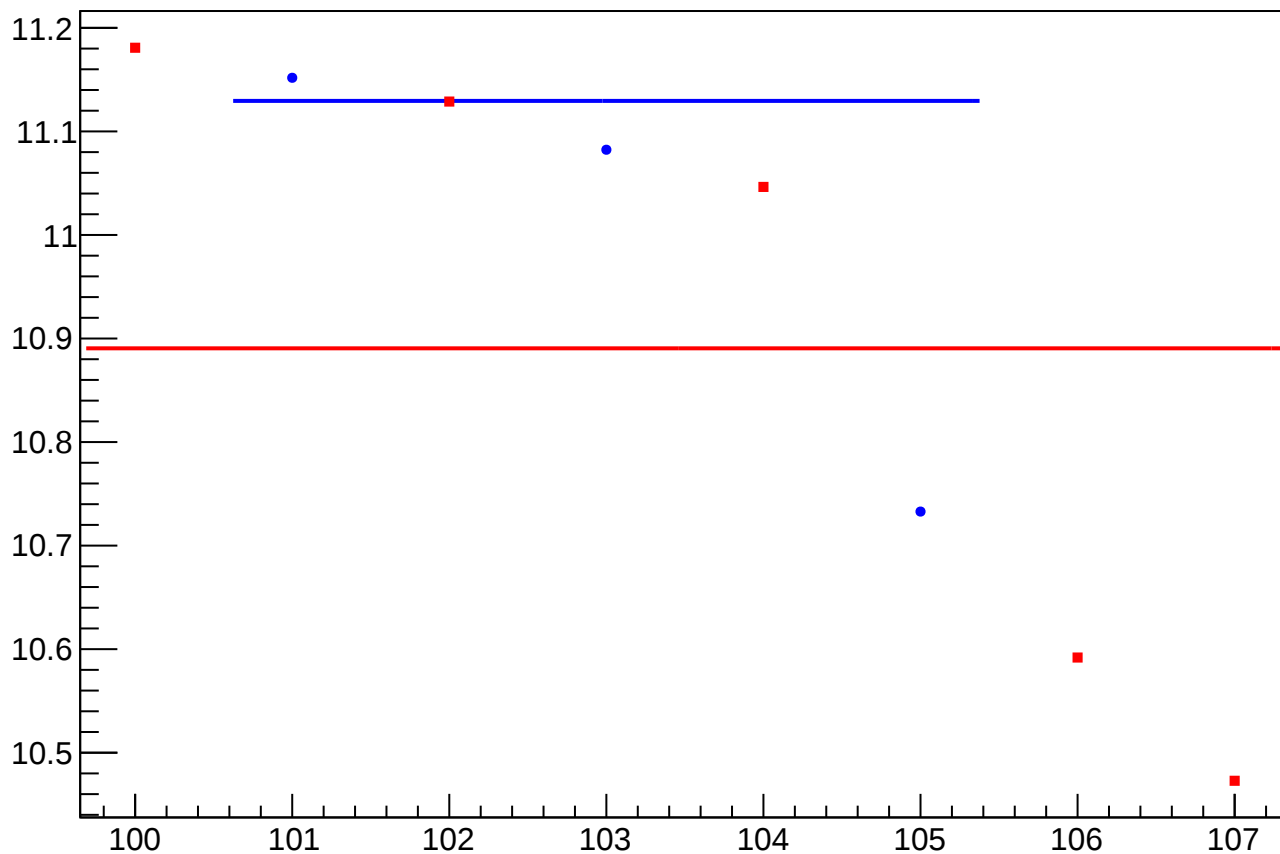
Right Out: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 20280.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.024+/-0.000  $\chi^2/\text{NDF}$ : 15910.8/2

0.024+/-0.000  $\chi^2/\text{NDF}$ : 20280.5/4

# yield\_sam6\_mean vs slug



Right In: 11.129+/-0.000  $\chi^2/\text{NDF}$ : 13282076.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

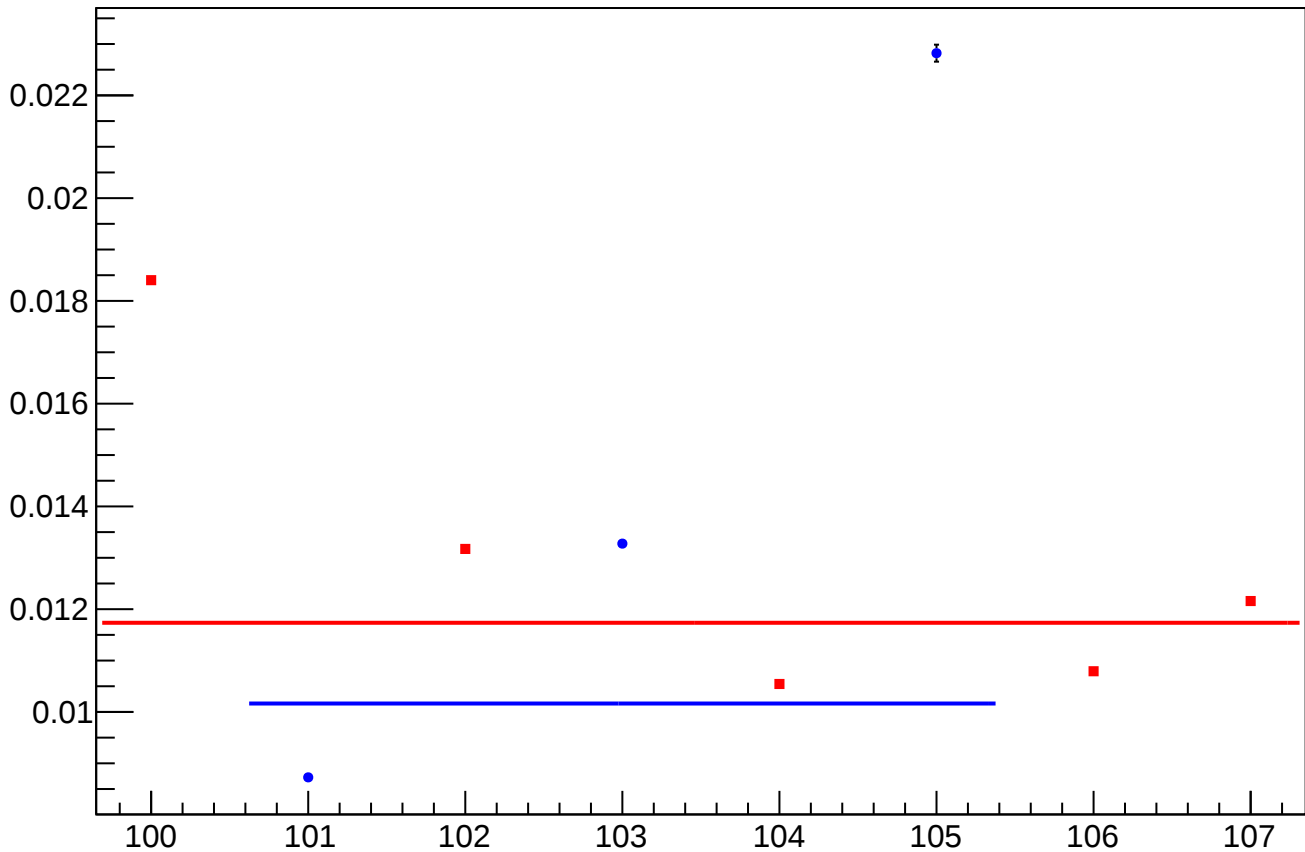
Right Out: 10.891+/-0.000  $\chi^2/\text{NDF}$ : 799692917.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

11.129+/-0.000  $\chi^2/\text{NDF}$ : 13282076.8/2

10.891+/-0.000  $\chi^2/\text{NDF}$ : 799692917.5/4

# yield\_sam6\_rms vs slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 95046.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

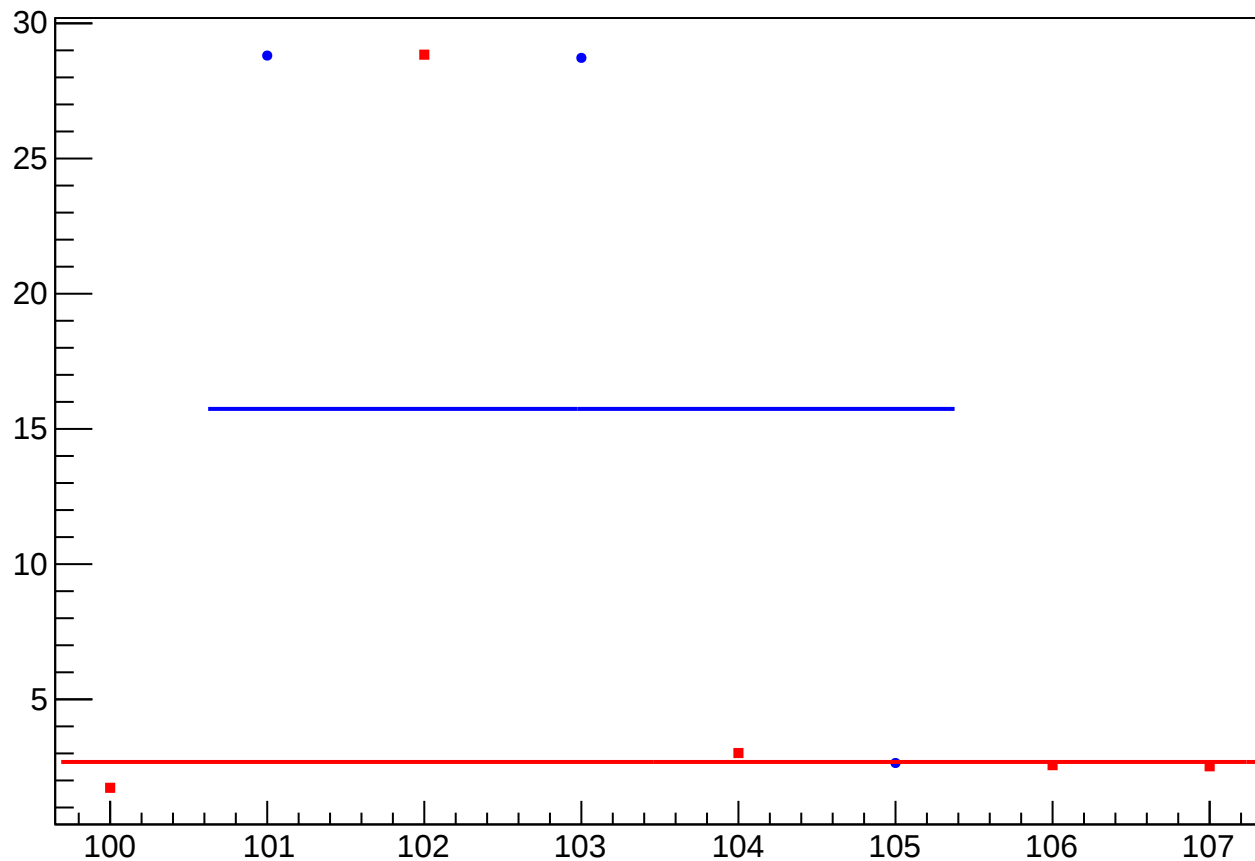
Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 46270.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.010+/-0.000  $\chi^2/\text{NDF}$ : 95046.3/2

0.012+/-0.000  $\chi^2/\text{NDF}$ : 46270.6/4

yield\_sam7\_mean vs slug



Right In: 15.741 $\pm$ 0.000  $\chi^2$ /NDF: 79586287284.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

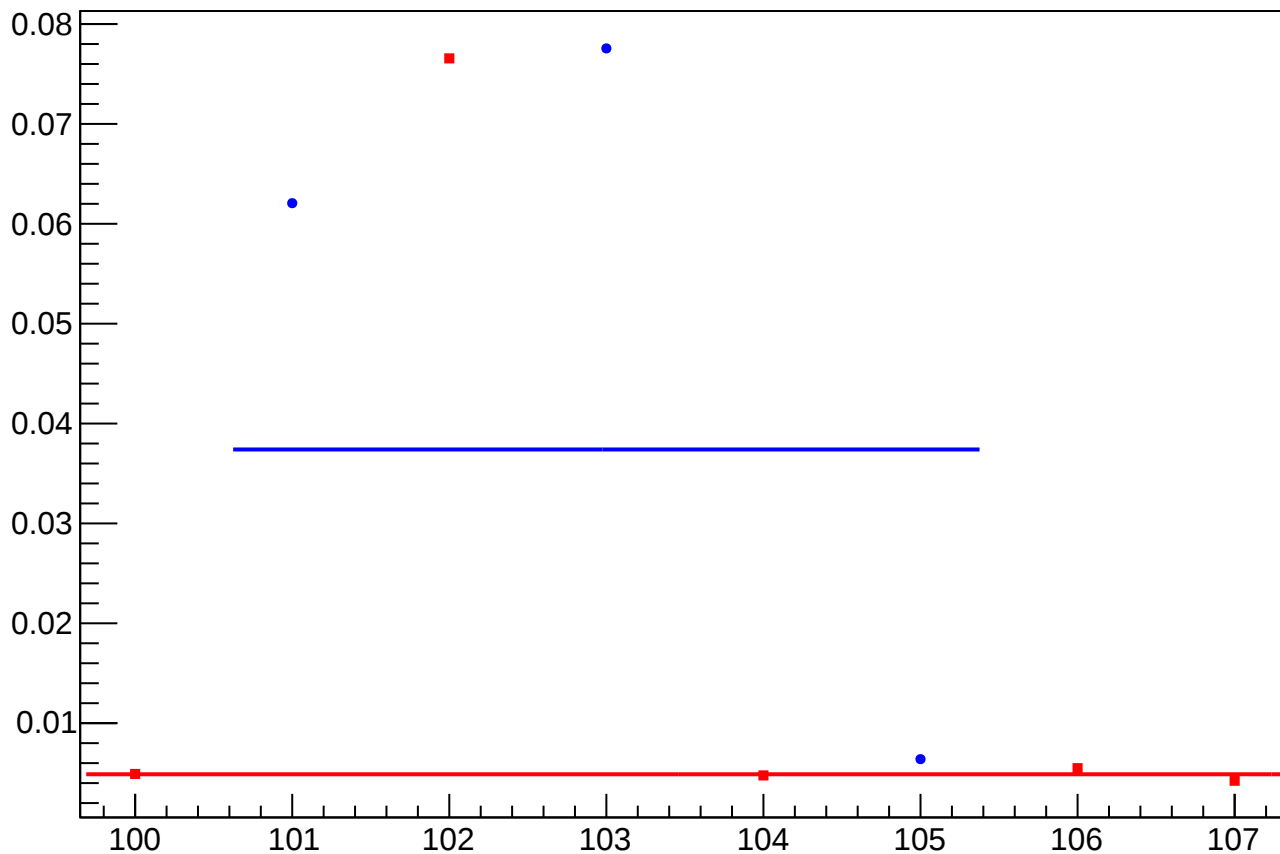
Right Out: 2.684 $\pm$ 0.000  $\chi^2$ /NDF: 66489089935.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

15.741 $\pm$ 0.000  $\chi^2$ /NDF: 79586287284.5/2

2.684 $\pm$ 0.000  $\chi^2$ /NDF: 66489089935.7/4

# yield\_sam7\_rms vs slug



Right In: 0.037+/-0.000  $\chi^2/\text{NDF}$ : 919255.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

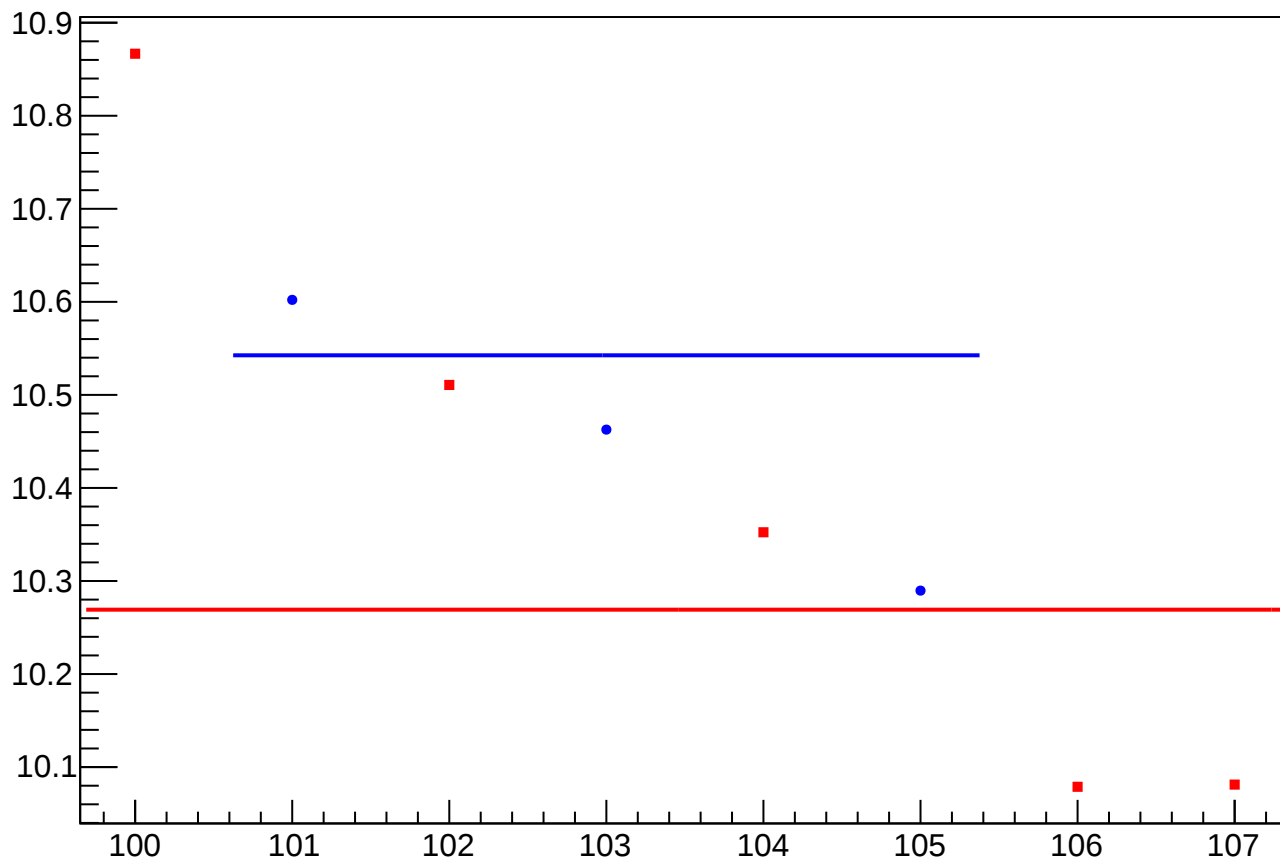
Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 952374.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.037+/-0.000  $\chi^2/\text{NDF}$ : 919255.5/2

0.005+/-0.000  $\chi^2/\text{NDF}$ : 952374.7/4

# yield\_sam8\_mean vs slug



Right In: 10.543+/-0.000  $\chi^2/\text{NDF}$ : 42077272.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

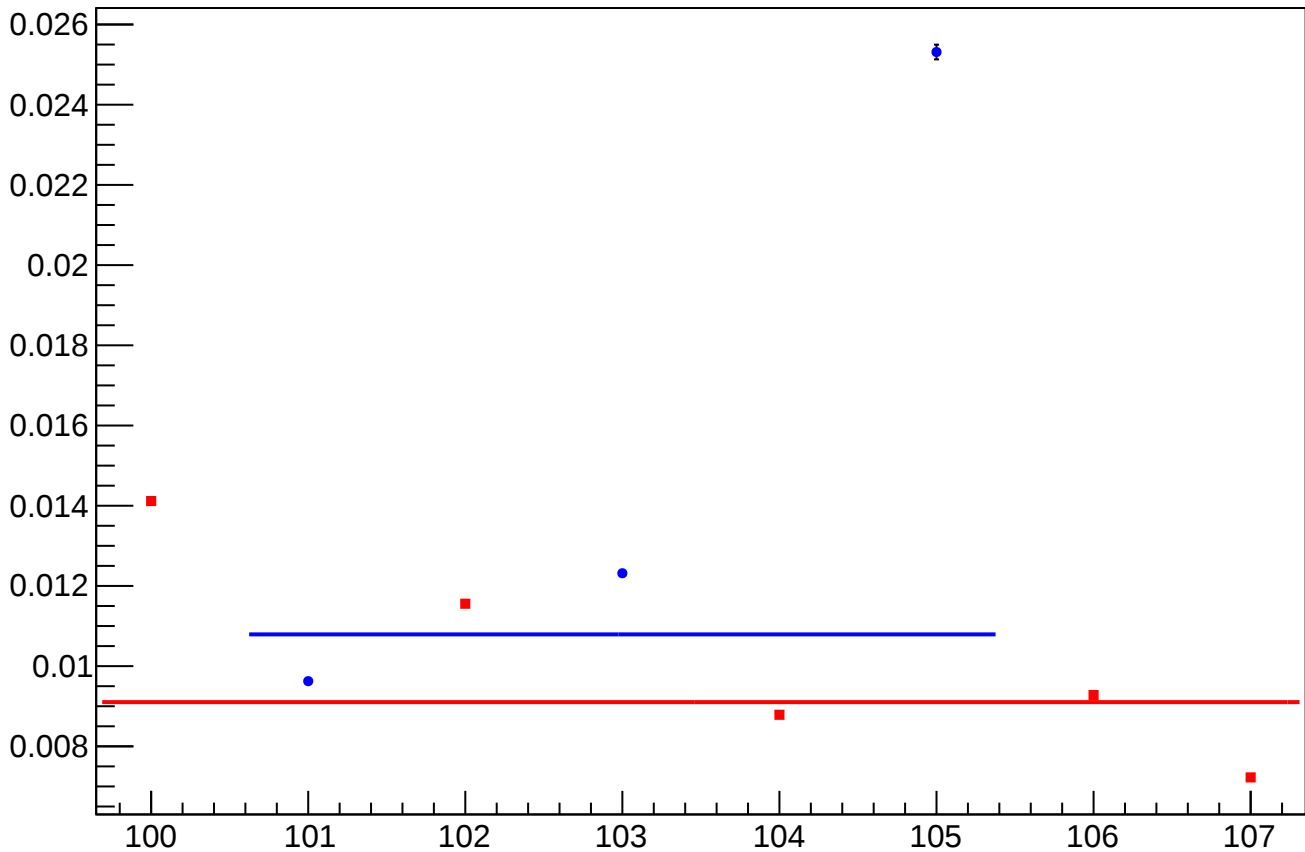
Right Out: 10.269+/-0.000  $\chi^2/\text{NDF}$ : 661805020.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.543+/-0.000  $\chi^2/\text{NDF}$ : 42077272.8/2

10.269+/-0.000  $\chi^2/\text{NDF}$ : 661805020.4/4

# yield\_sam8\_rms vs slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 36906.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

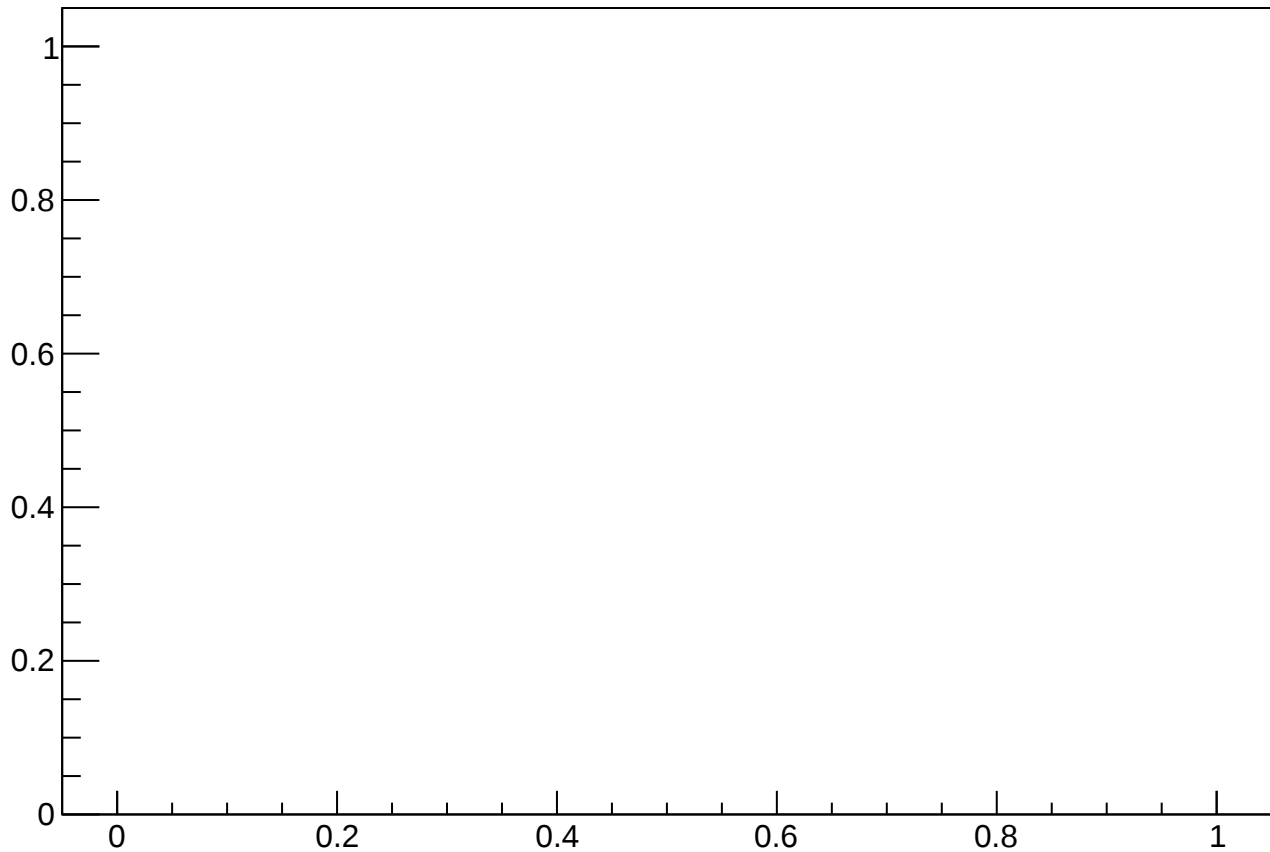
Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 99681.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.011+/-0.000  $\chi^2/\text{NDF}$ : 36906.3/2

0.009+/-0.000  $\chi^2/\text{NDF}$ : 99681.2/4

cor\_sam1\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

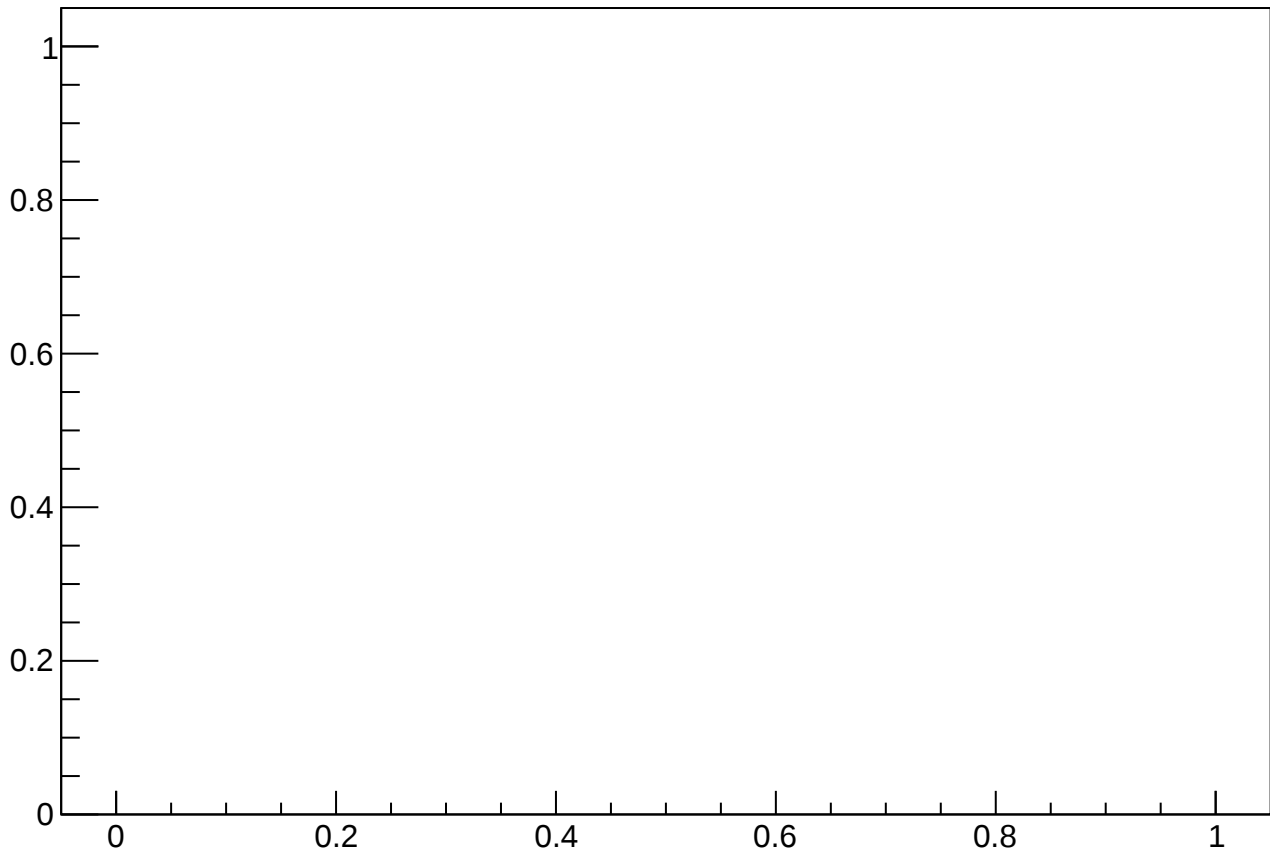
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam1\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

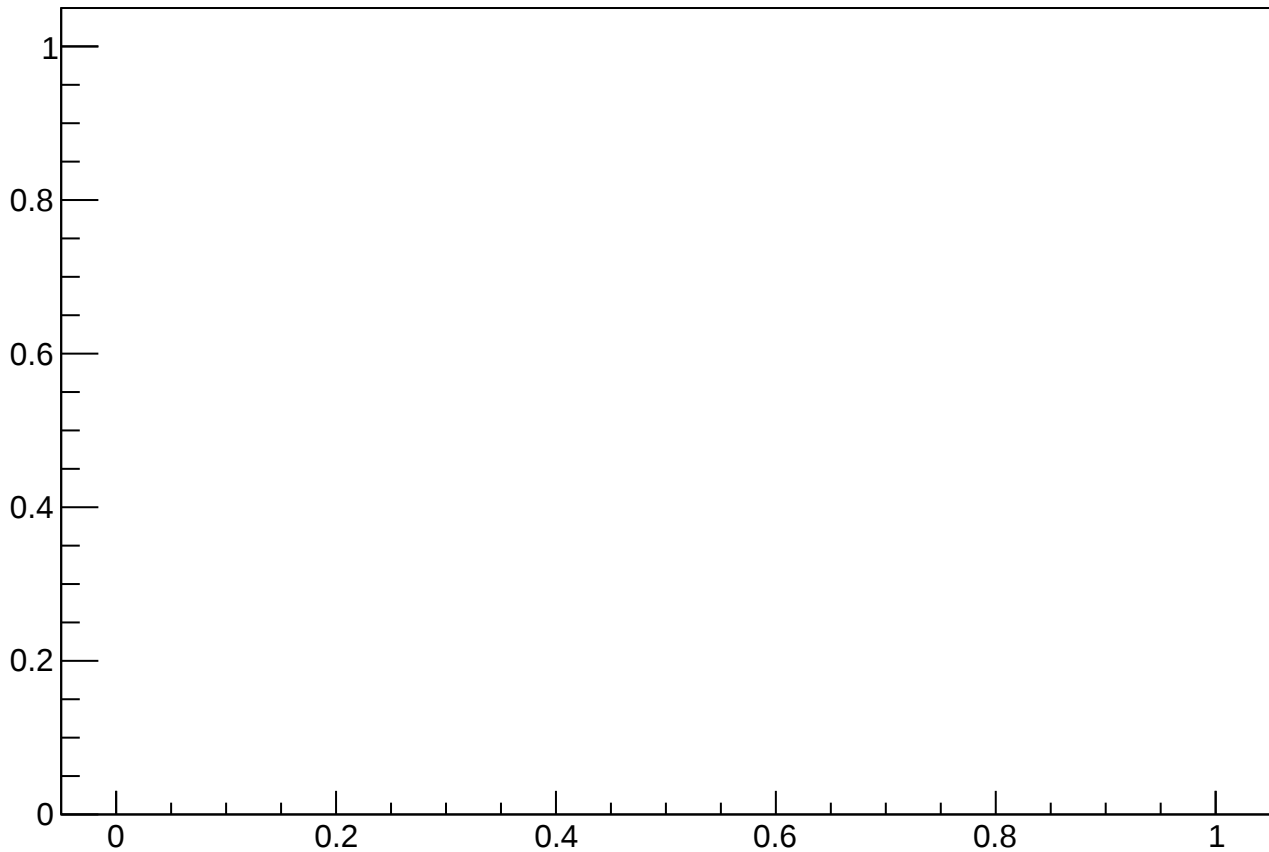
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

cor\_sam2\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

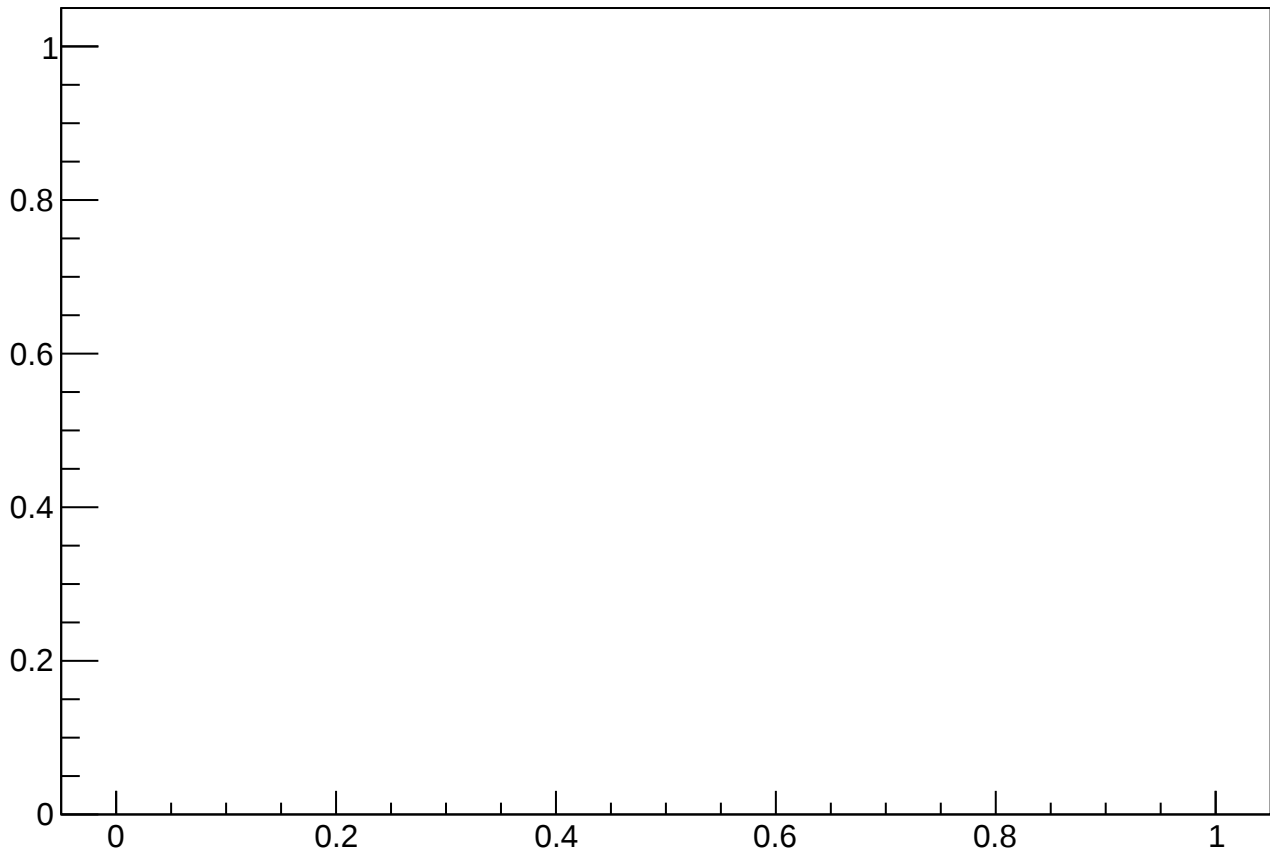
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam2\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

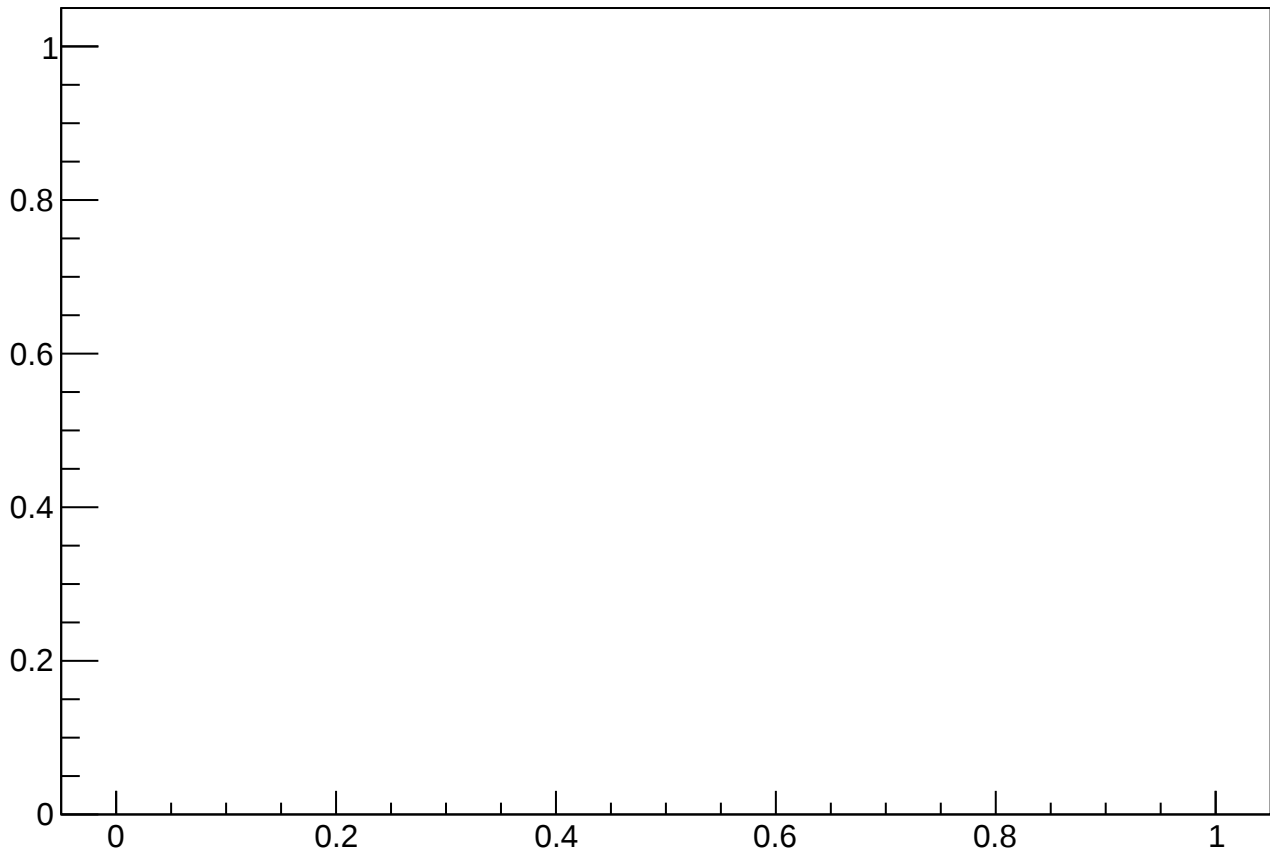
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam3\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

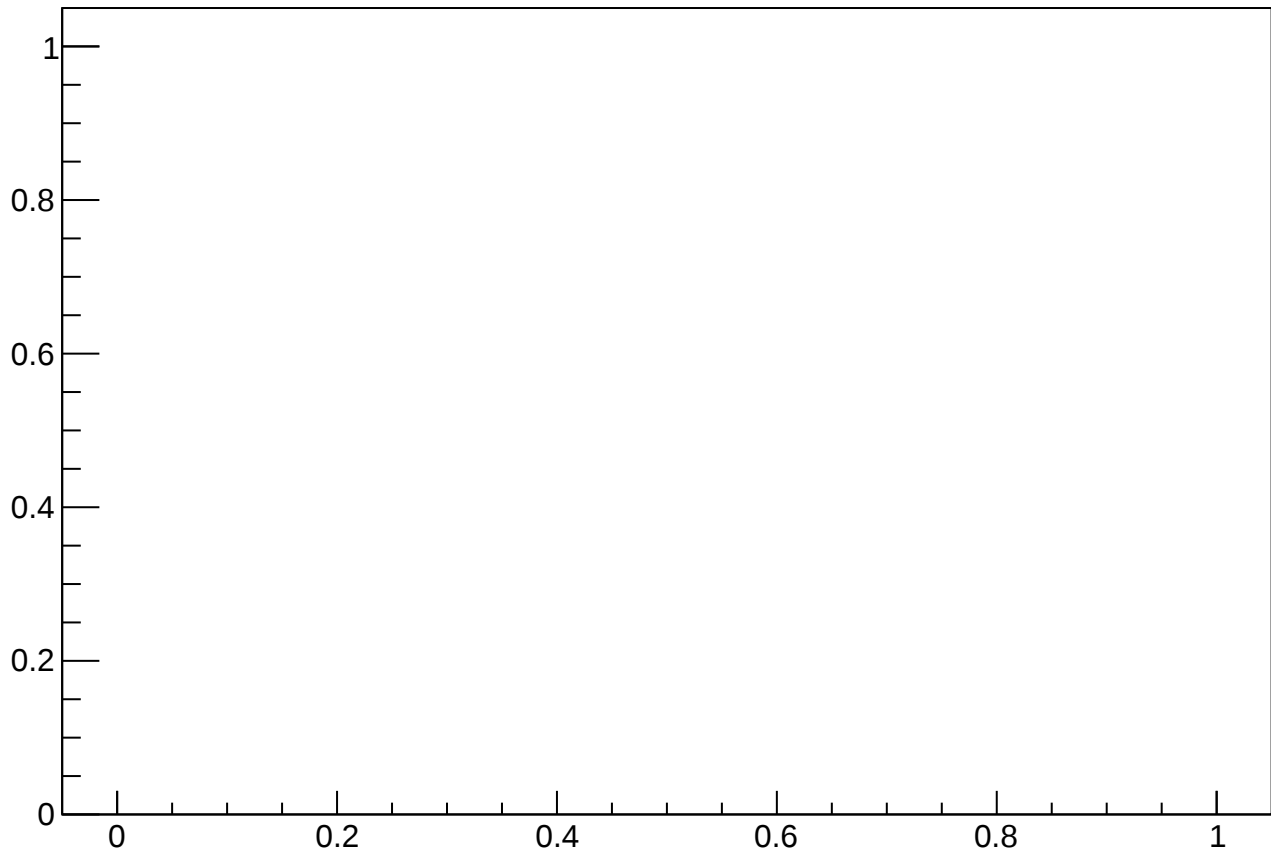
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam3\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

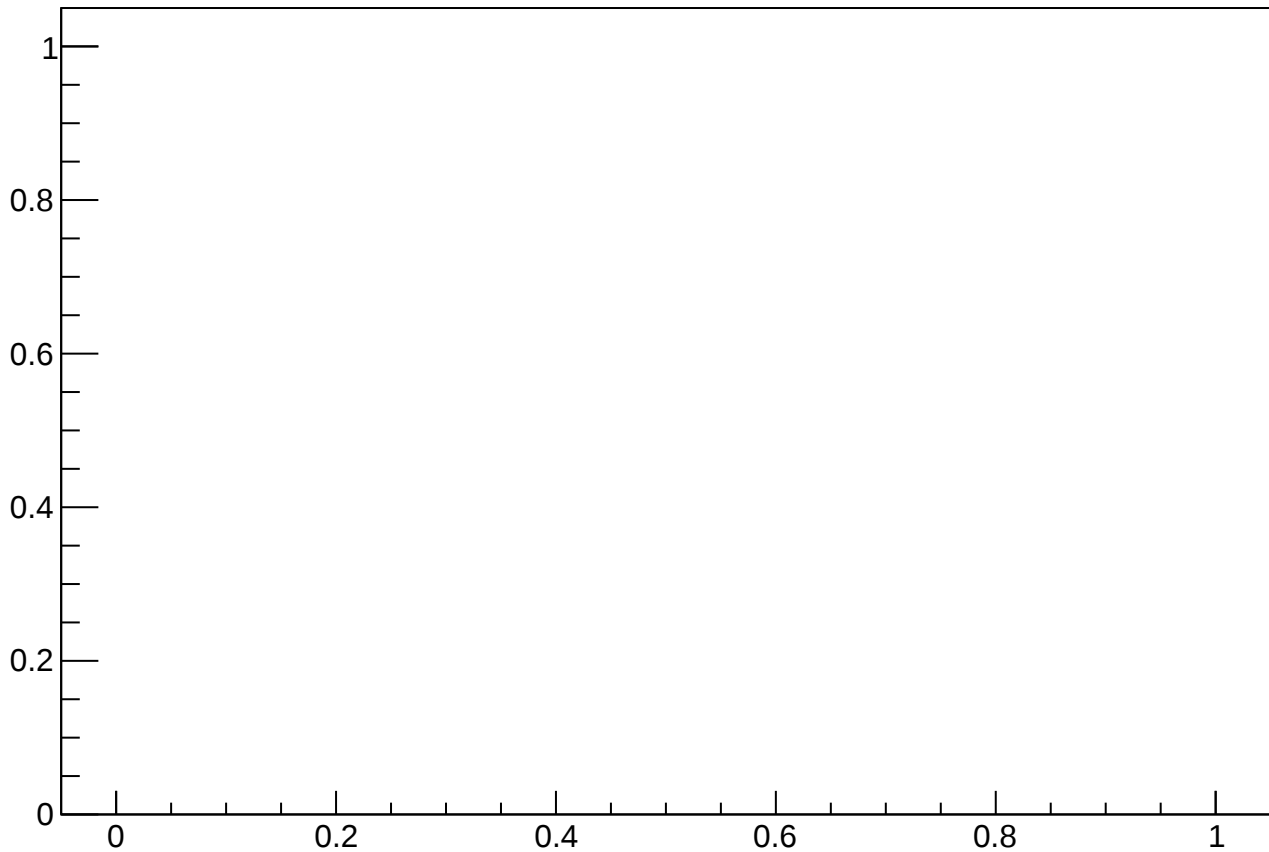
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam4\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

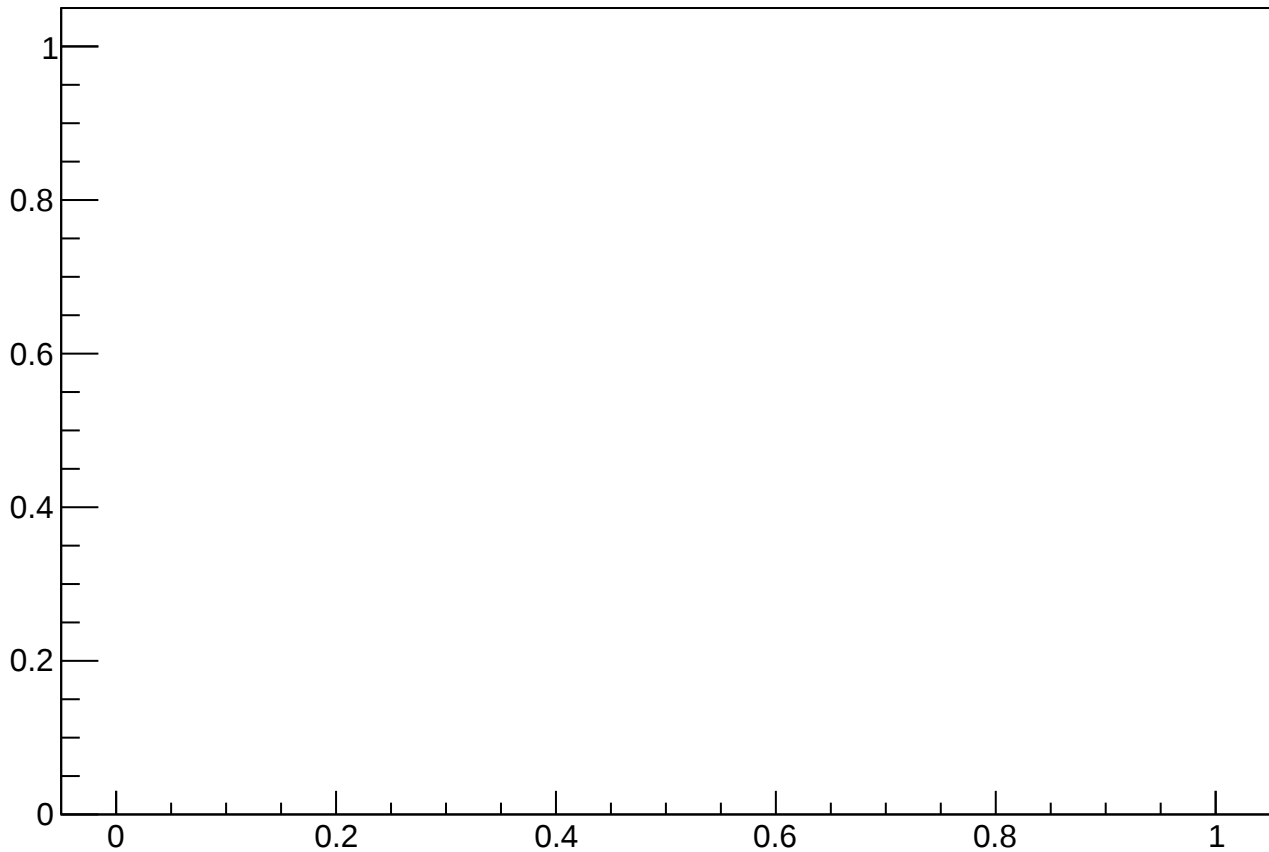
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam4\_rms vs slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

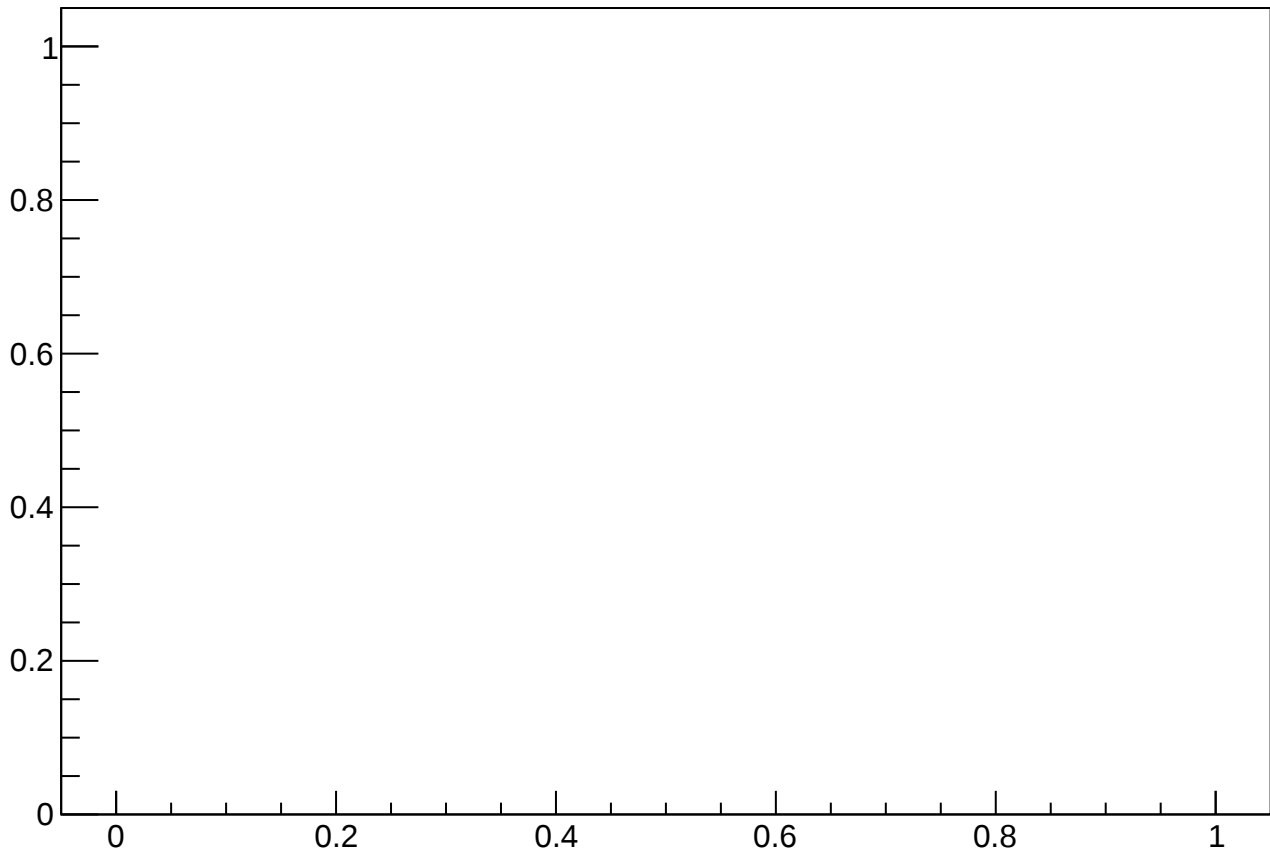
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# cor\_sam5\_mean vs slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

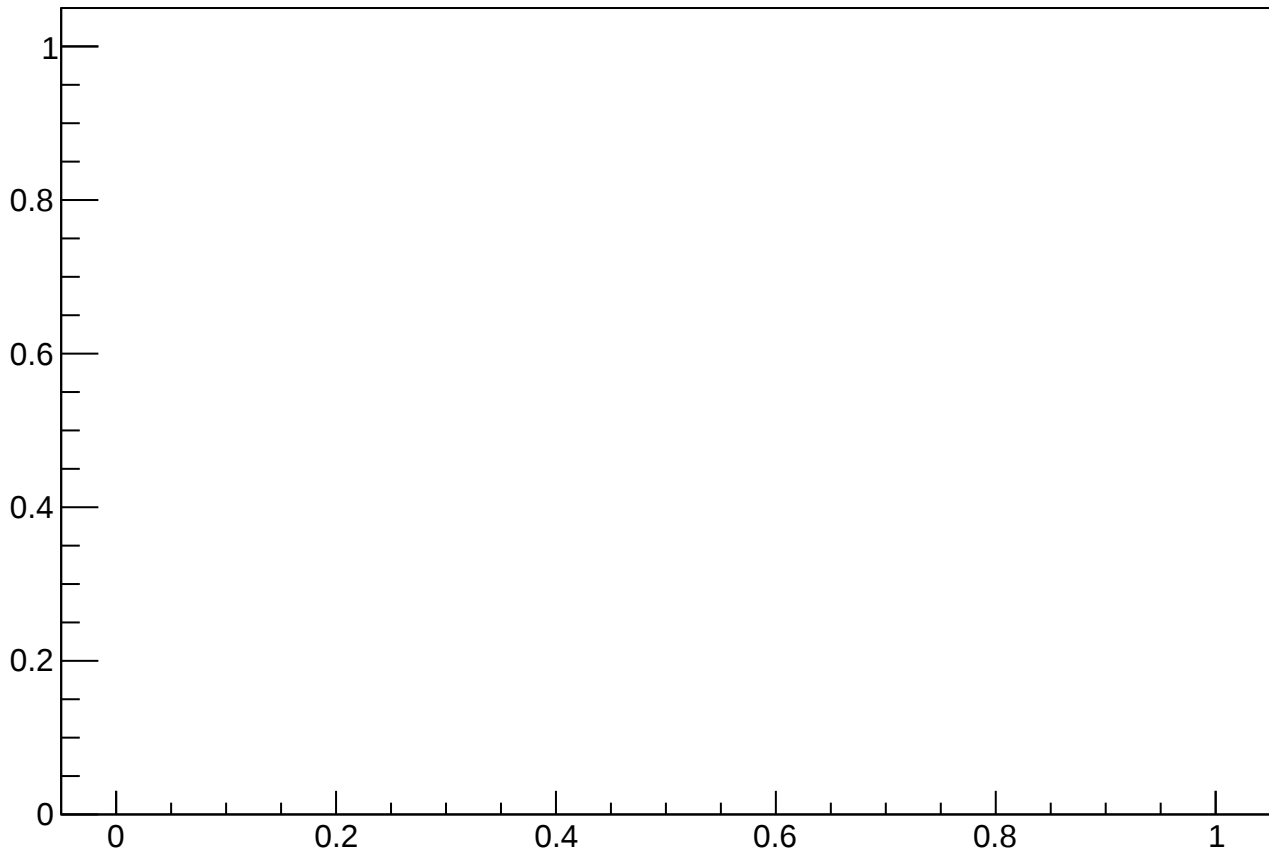
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam5\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

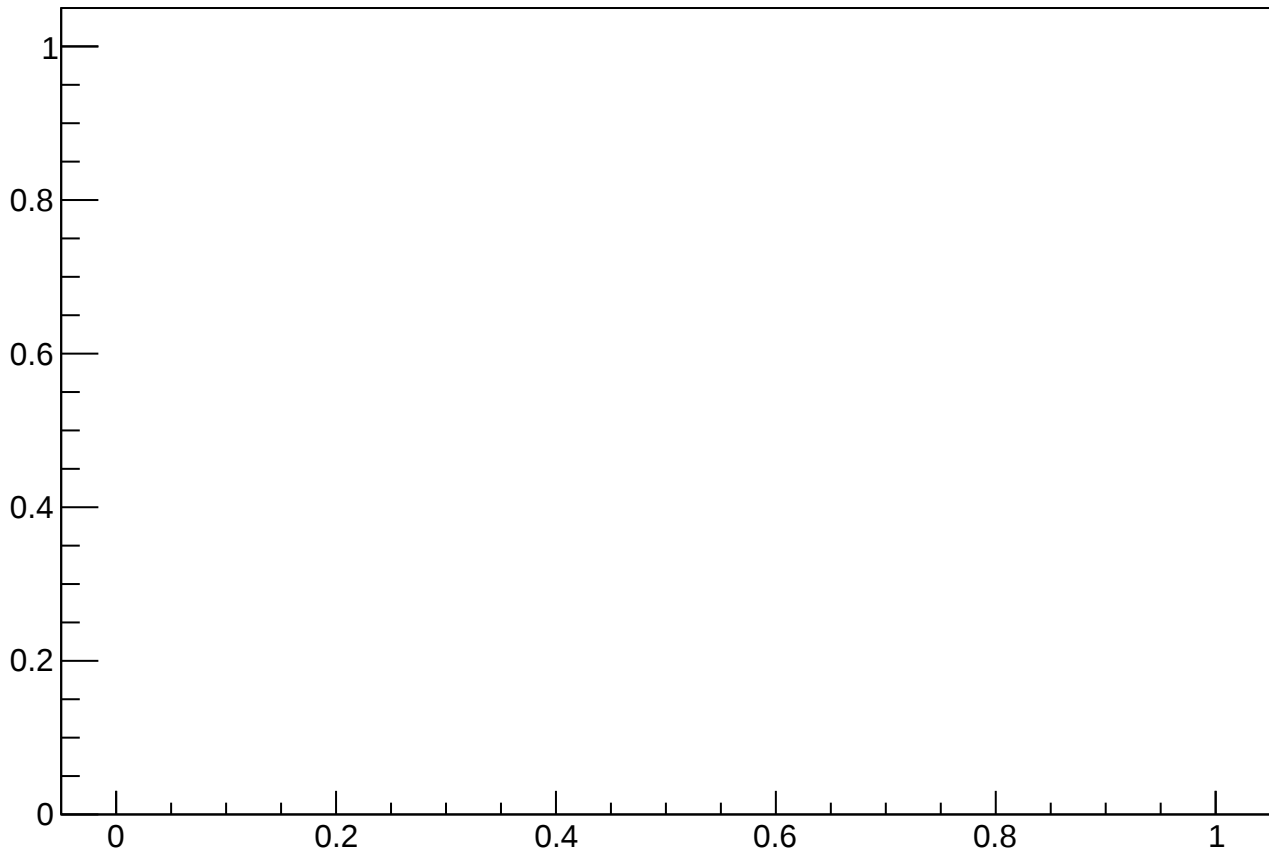
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_sam6\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

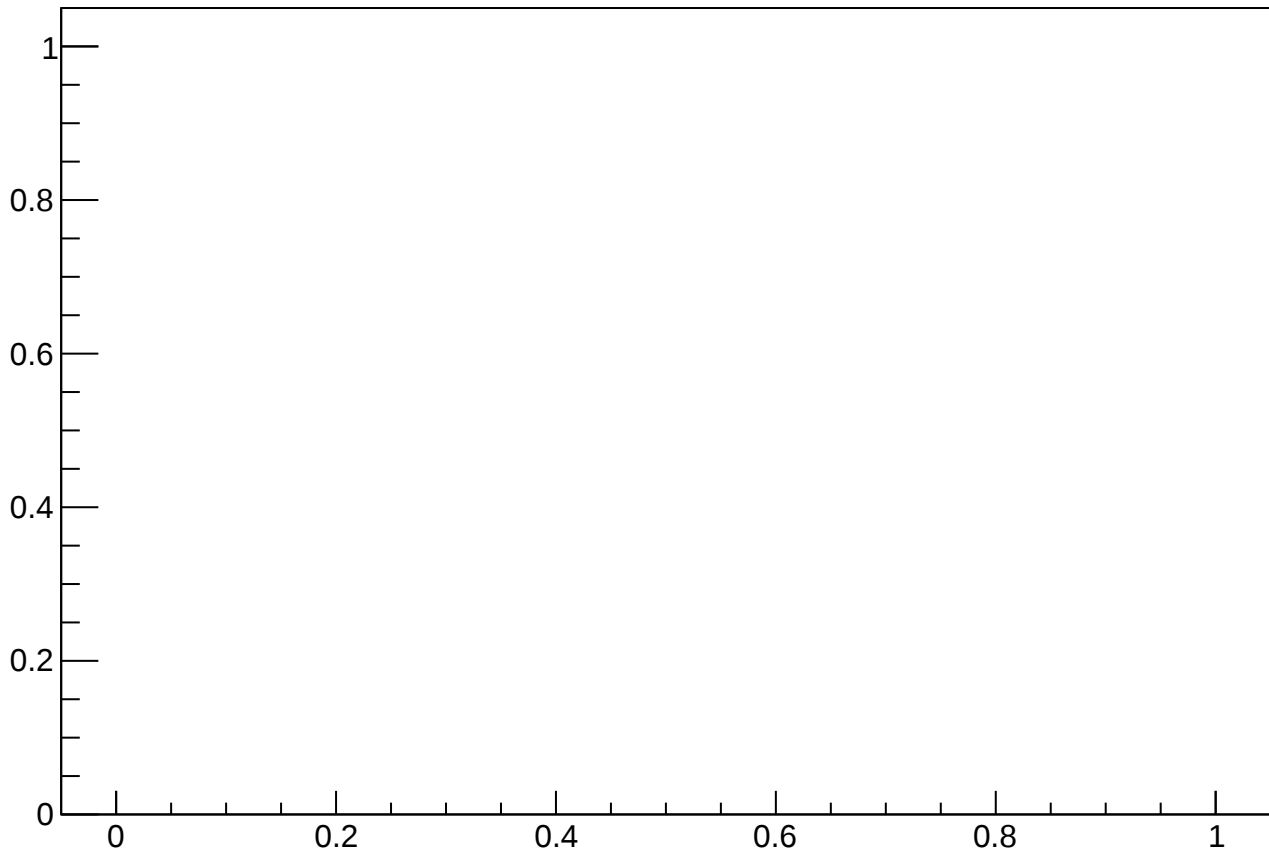
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam6\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

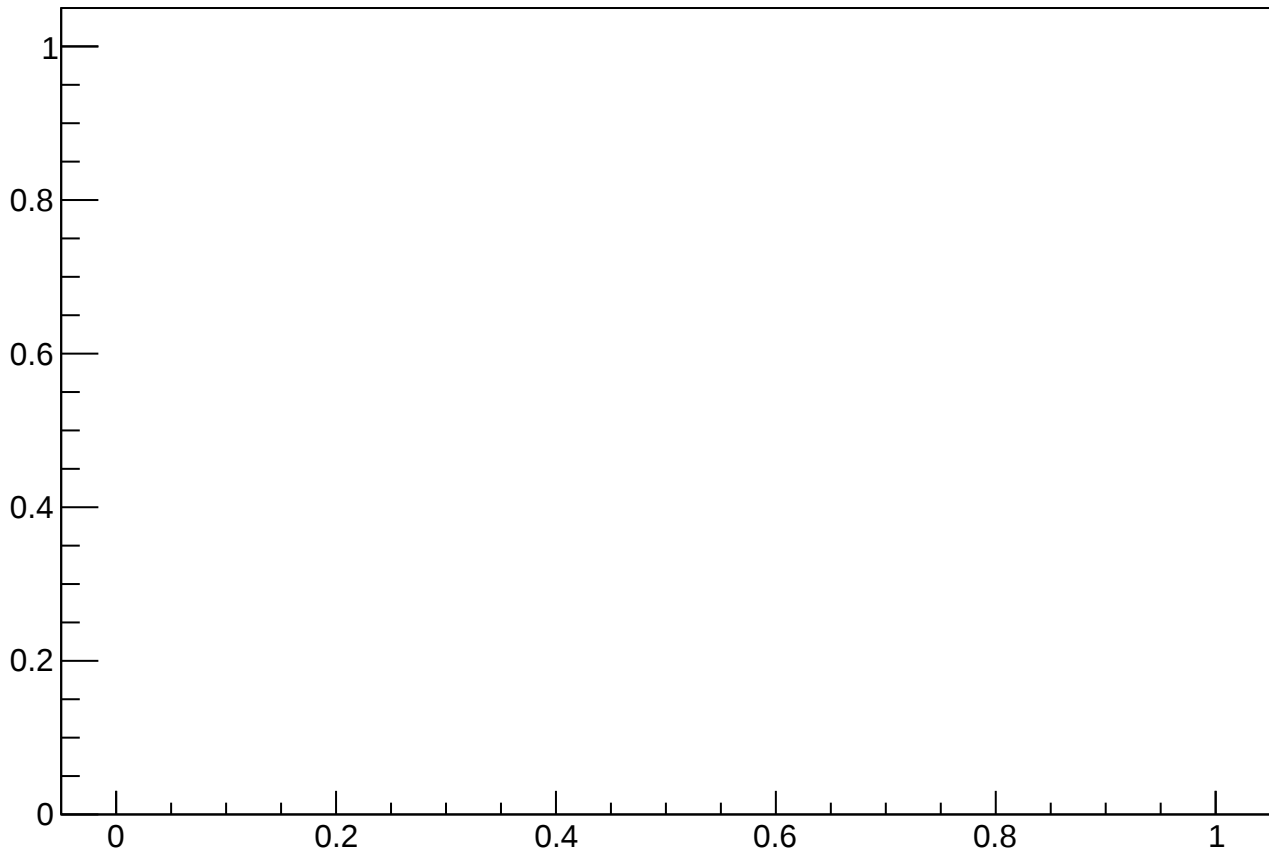
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam7\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

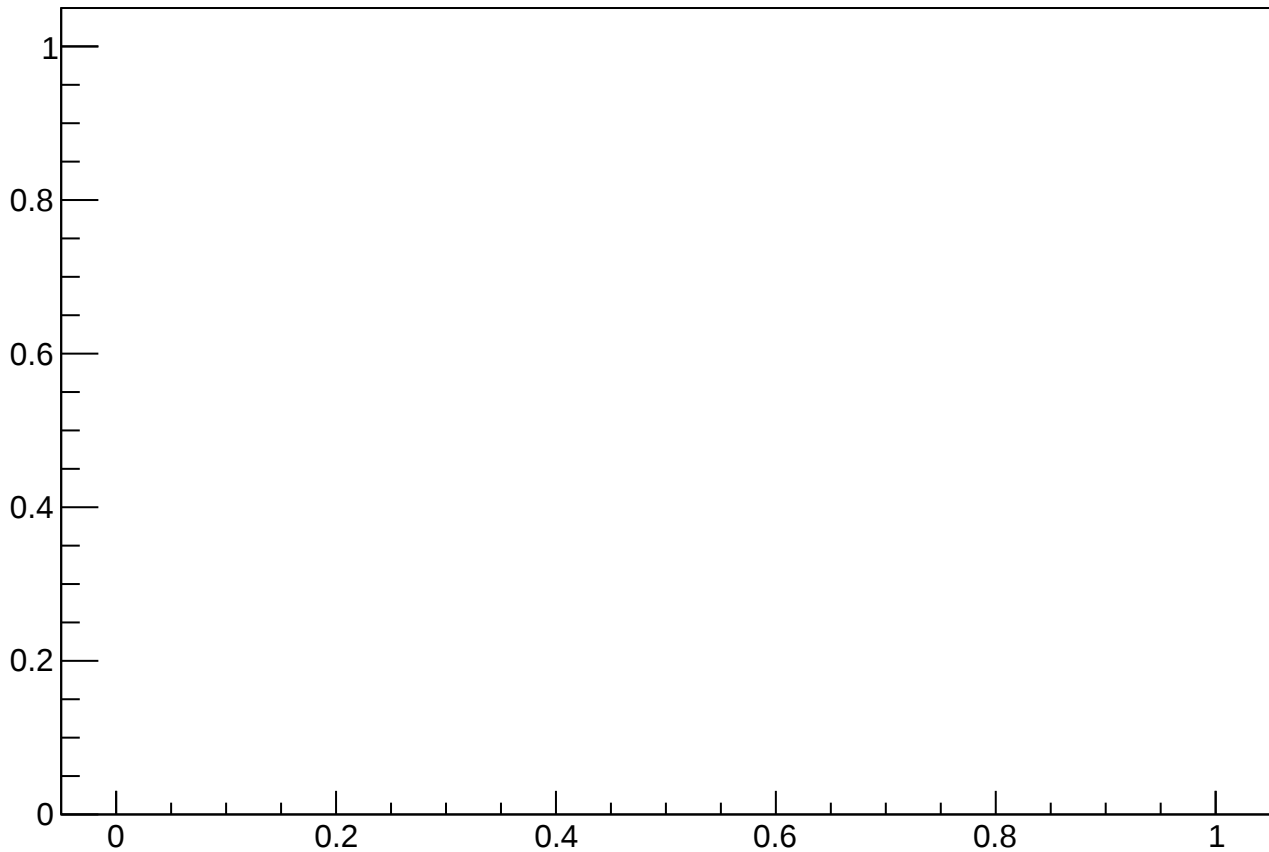
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam7\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

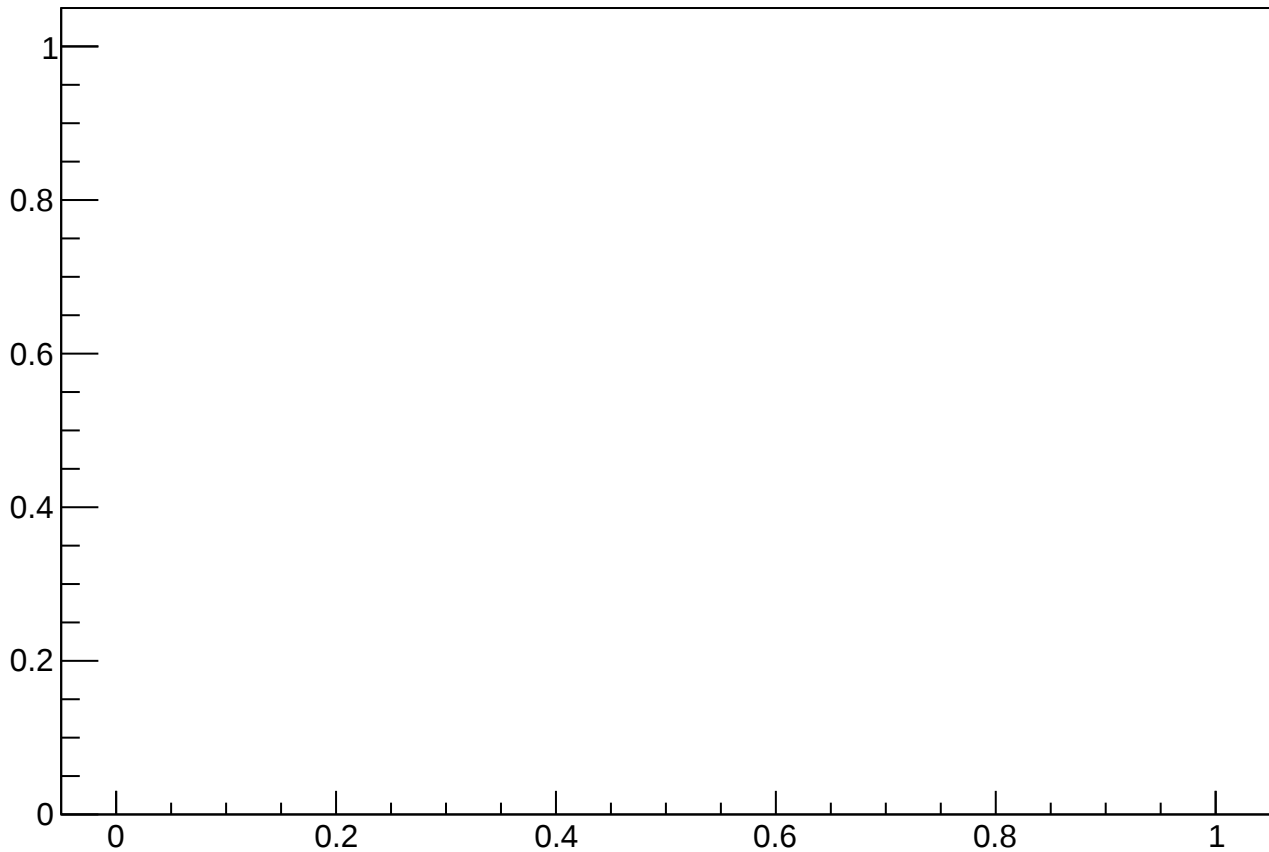
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

cor\_sam8\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

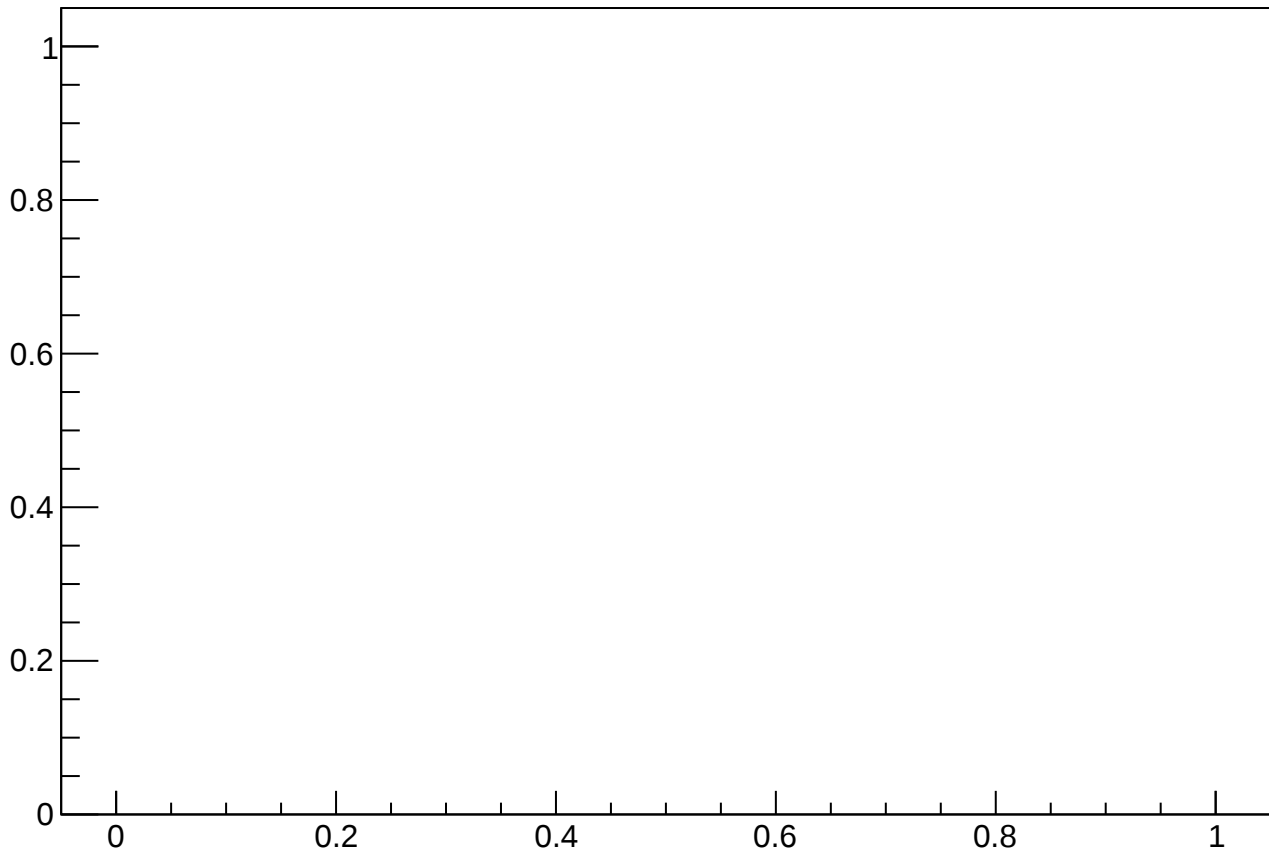
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# cor\_sam8\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

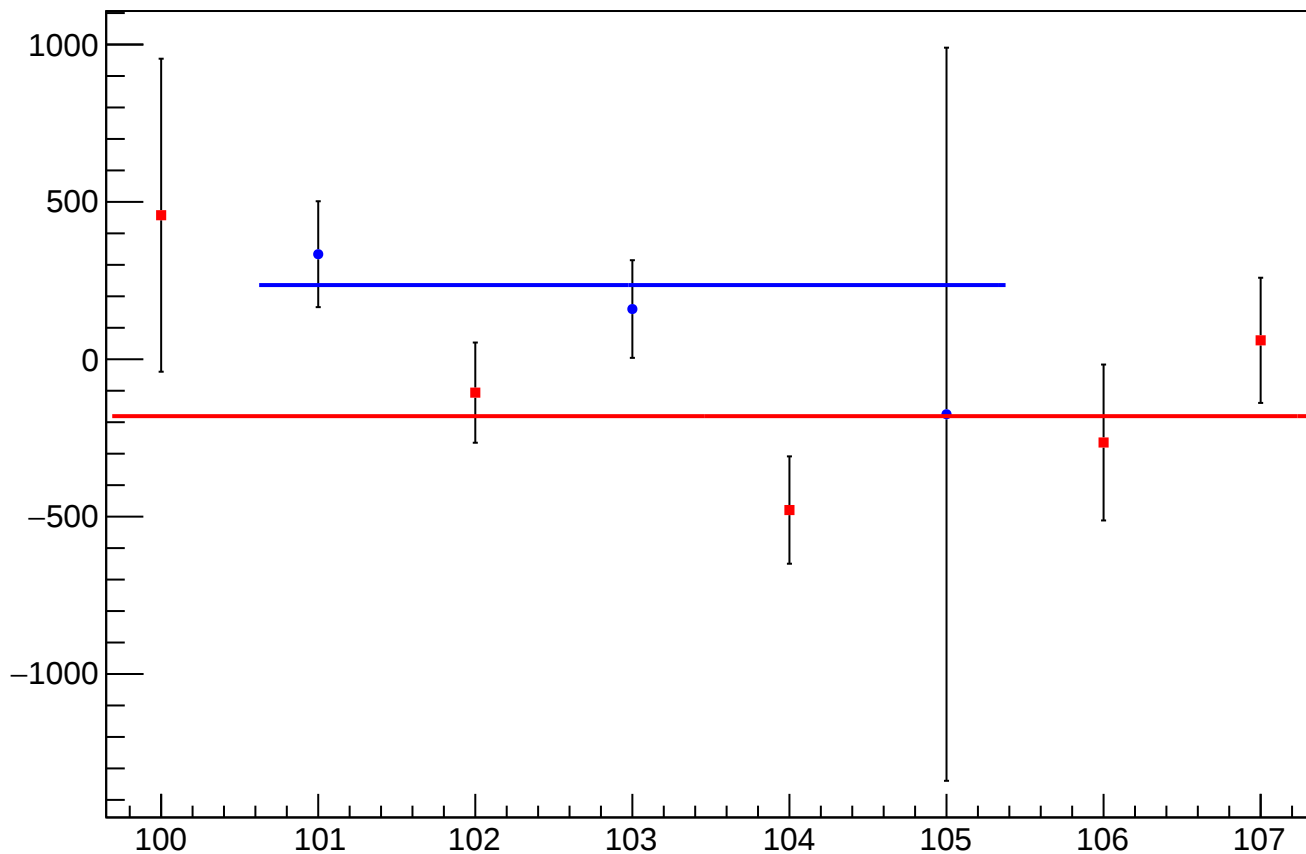
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_mean vs slug



Right In: 235.726+/-113.501  $\chi^2/\text{NDF}$ : 0.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

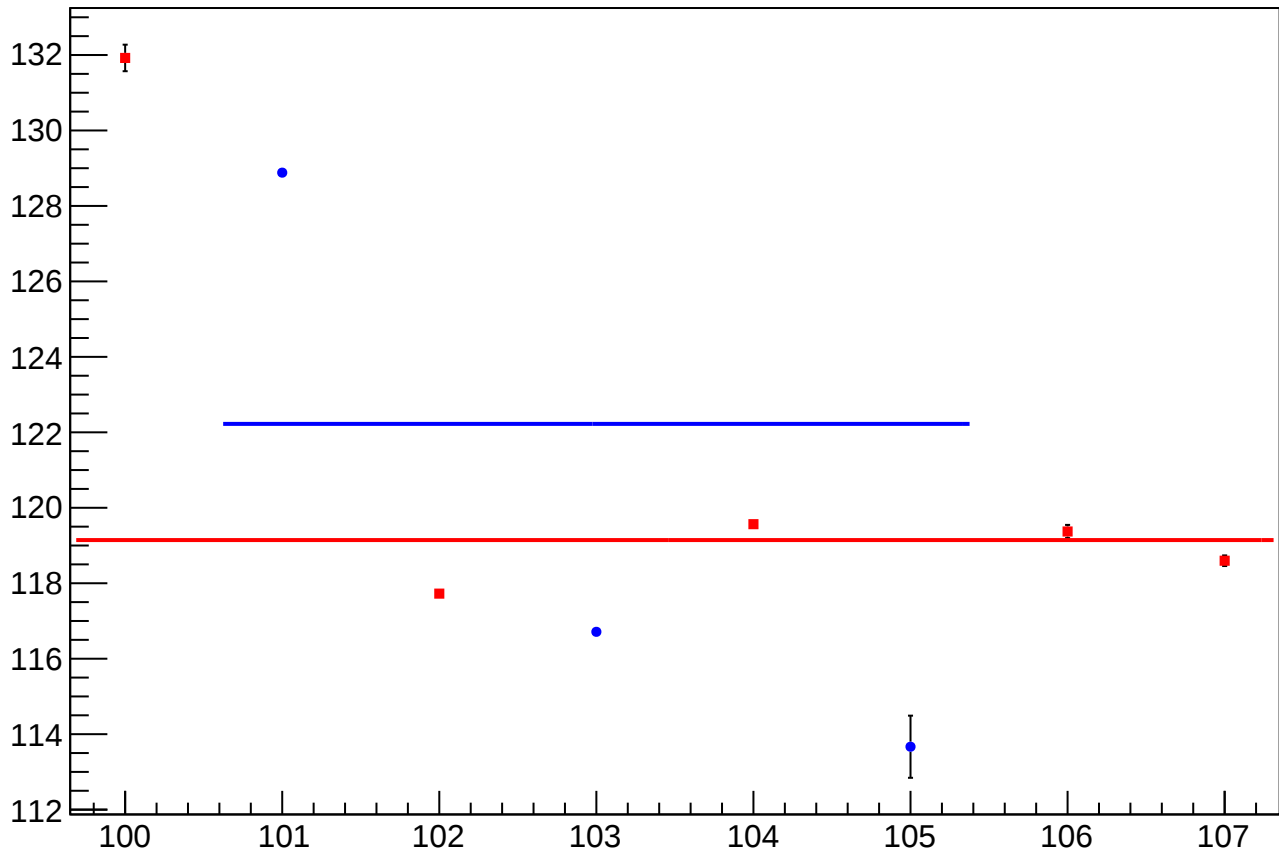
Right Out: -180.759+/-91.486  $\chi^2/\text{NDF}$ : 6.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

235.726+/-113.501  $\chi^2/\text{NDF}$ : 0.7/2

-180.759+/-91.486  $\chi^2/\text{NDF}$ : 6.5/4

# reg\_asym\_sam1\_rms vs slug



Right In: 122.224+/-0.080  $\chi^2/\text{NDF}$ : 5765.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

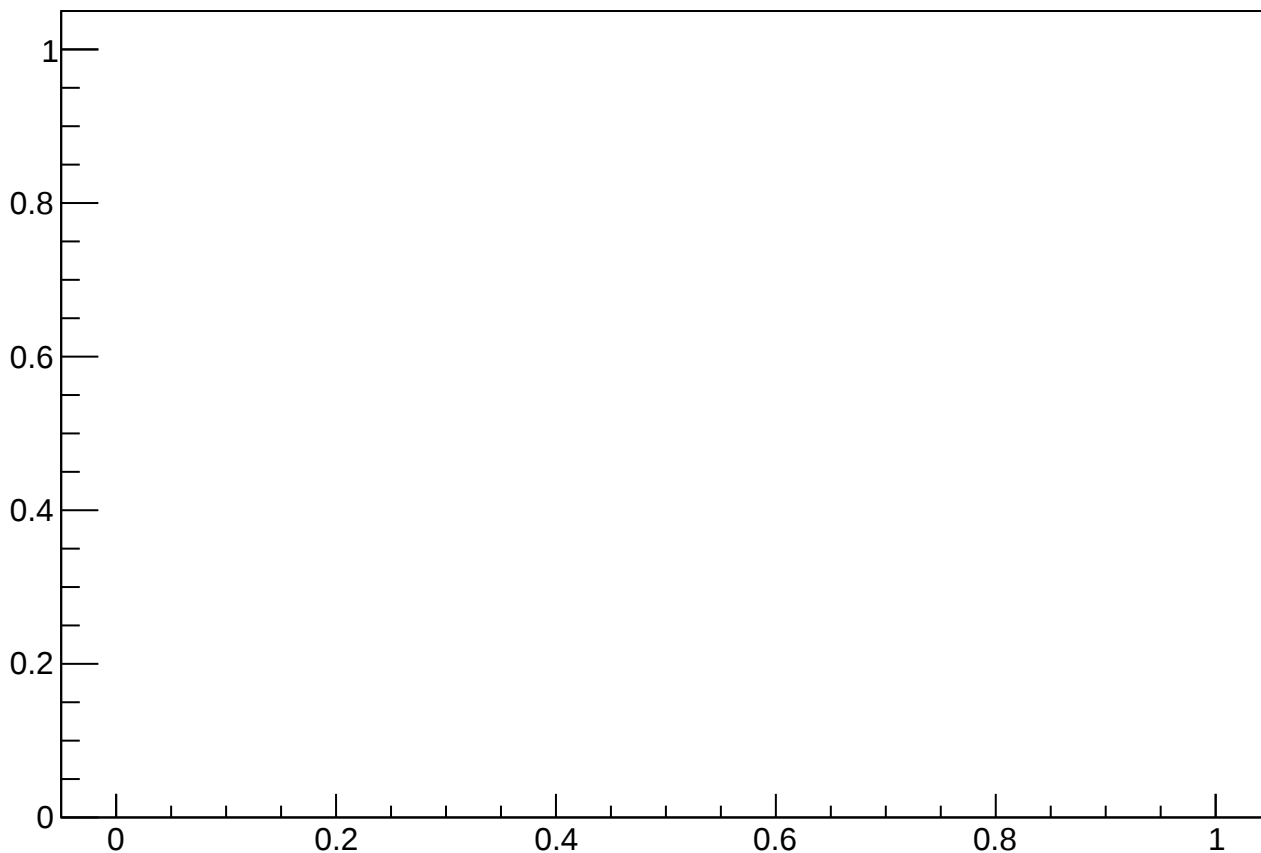
Right Out: 119.144+/-0.065  $\chi^2/\text{NDF}$ : 1508.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

122.224+/-0.080  $\chi^2/\text{NDF}$ : 5765.1/2

119.144+/-0.065  $\chi^2/\text{NDF}$ : 1508.7/4

# asym\_sam1\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

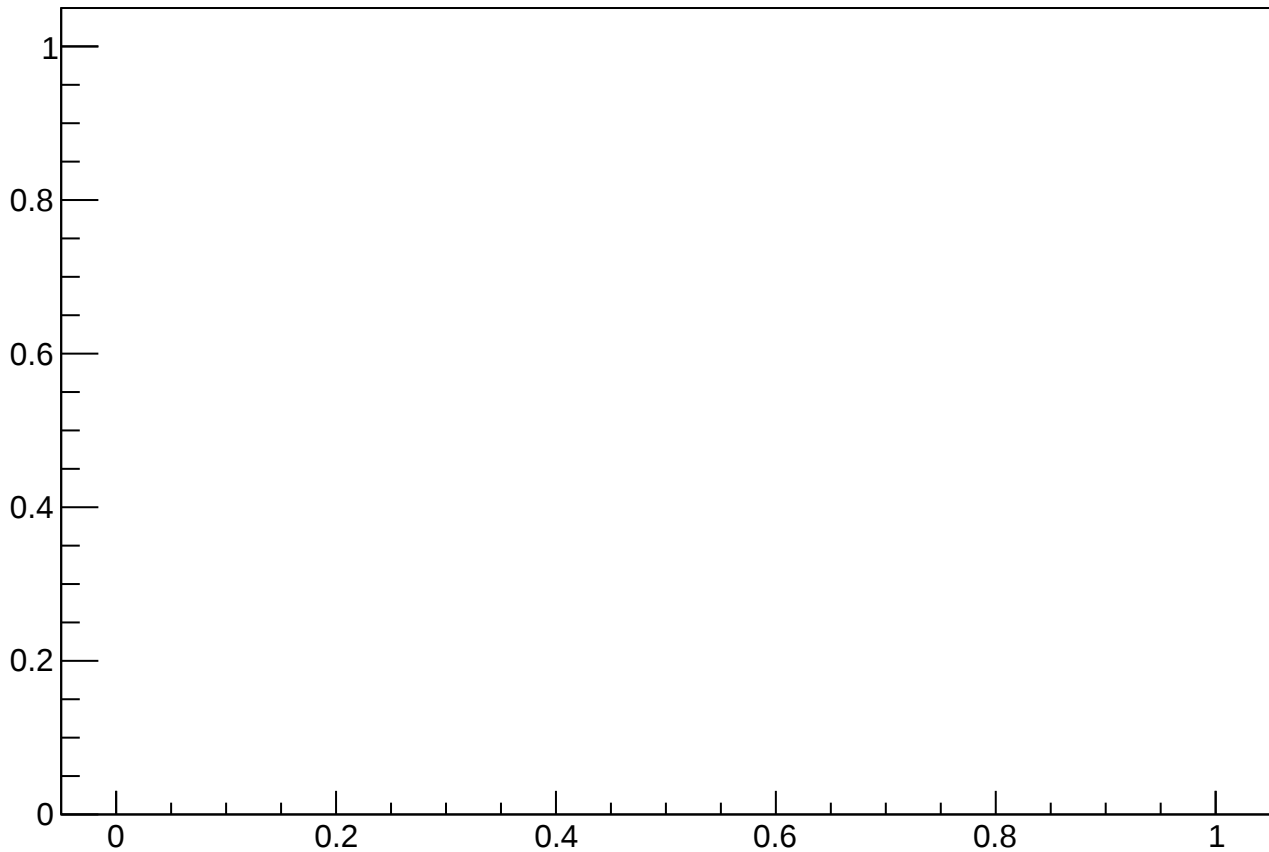
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

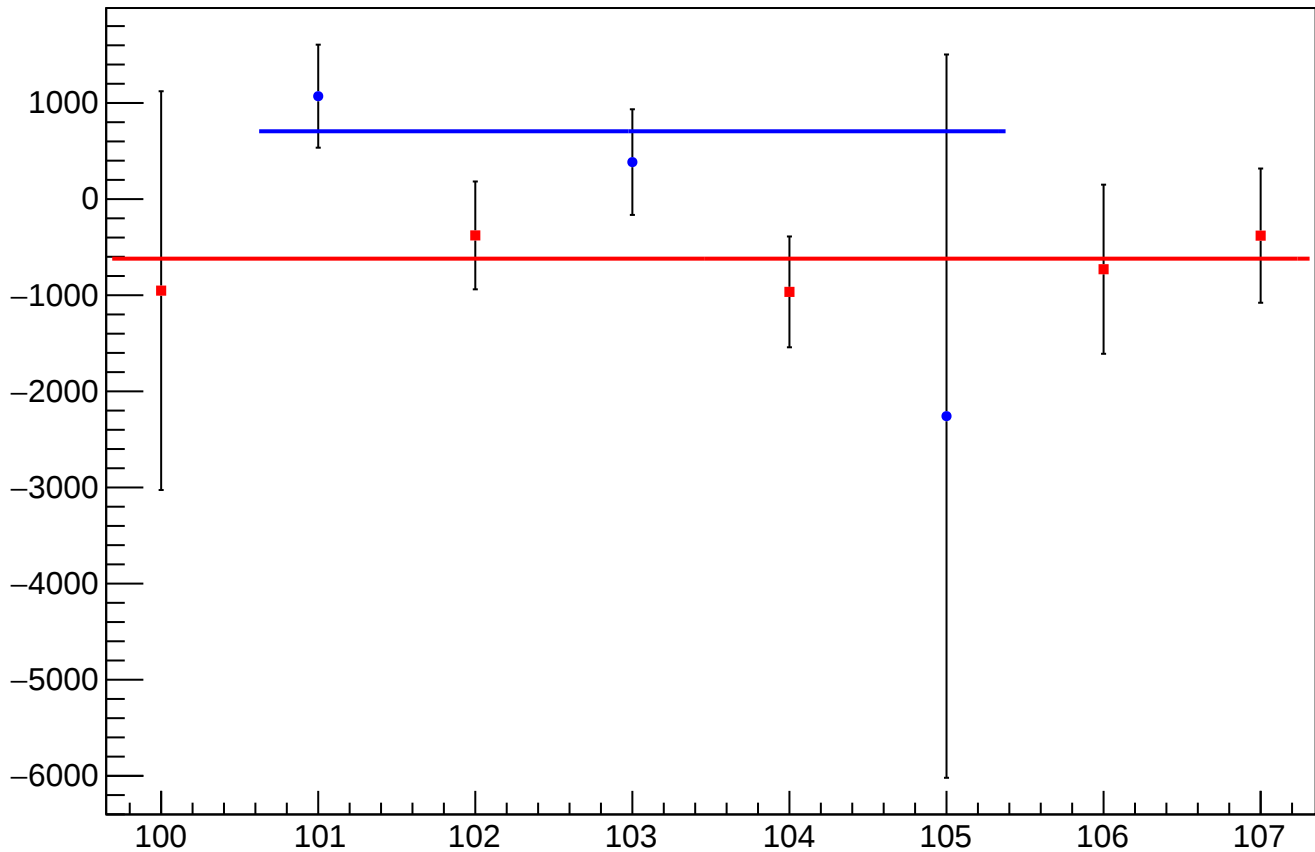
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam2\_mean vs slug



Right In: 705.722 $\pm$ 381.676  $\chi^2$ /NDF: 1.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

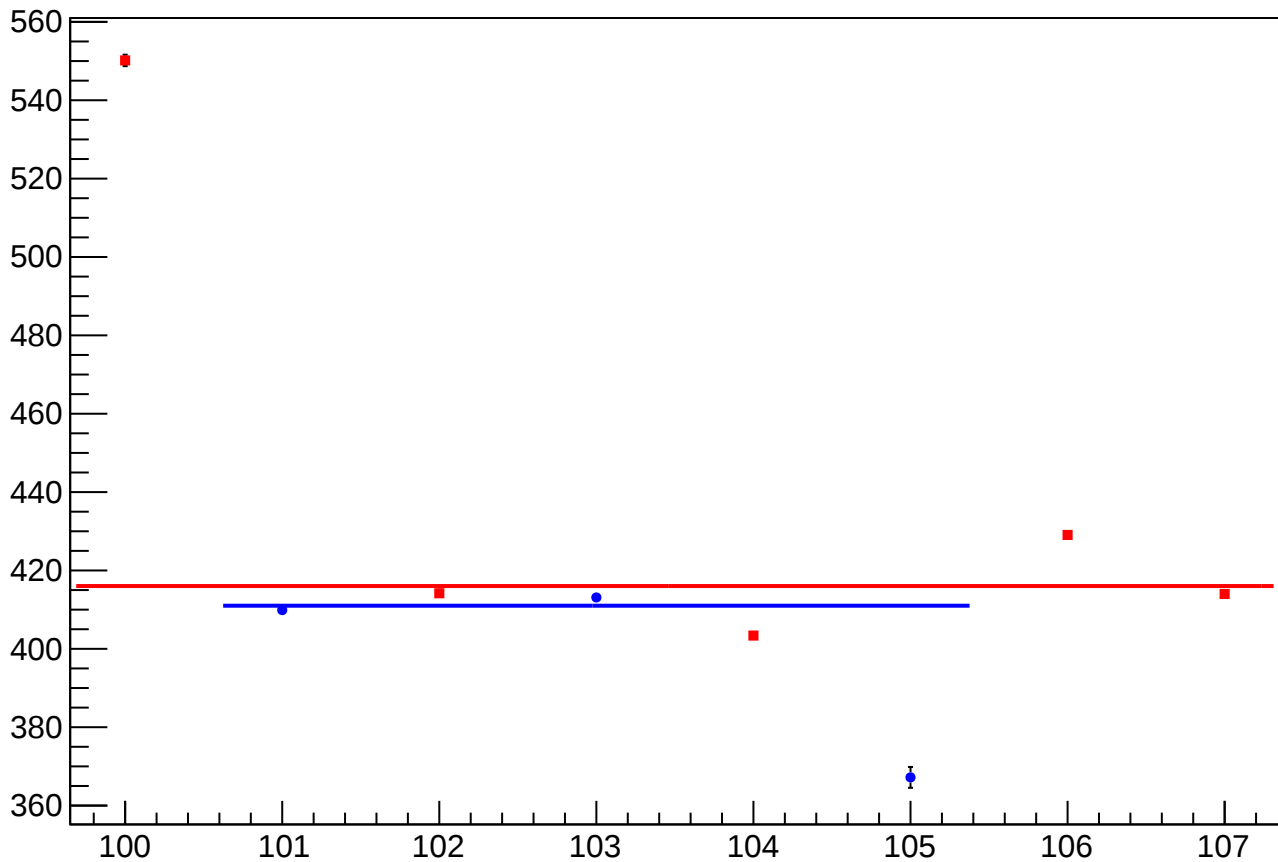
Right Out: -619.475 $\pm$ 320.053  $\chi^2$ /NDF: 0.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

705.722 $\pm$ 381.676  $\chi^2$ /NDF: 1.4/2

-619.475 $\pm$ 320.053  $\chi^2$ /NDF: 0.7/4

# reg\_asym\_sam2\_rms vs slug



Right In: 411.005+/-0.270  $\chi^2/\text{NDF}$ : 309.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

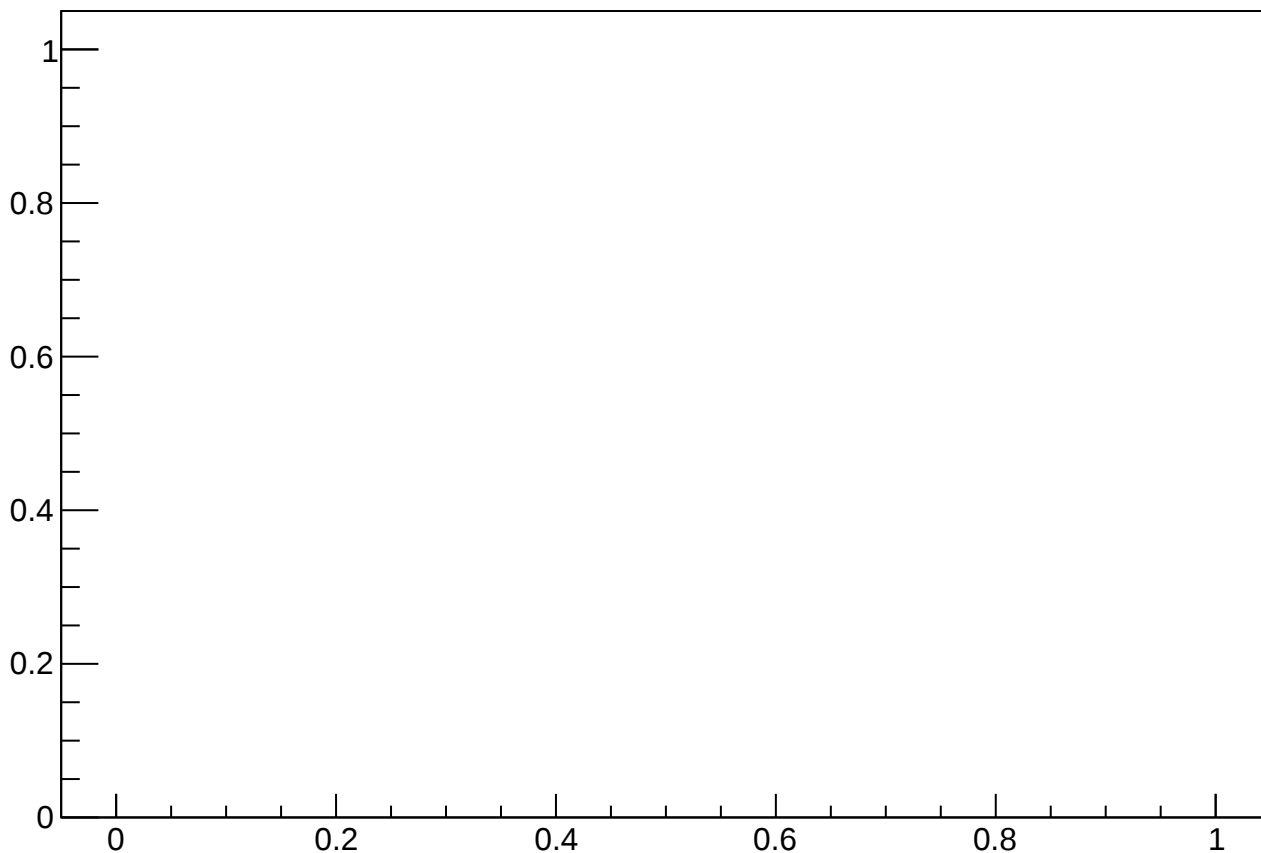
411.005+/-0.270  $\chi^2/\text{NDF}$ : 309.2/2

Right Out: 416.025+/-0.226  $\chi^2/\text{NDF}$ : 9803.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

416.025+/-0.226  $\chi^2/\text{NDF}$ : 9803.3/4

# asym\_sam2\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

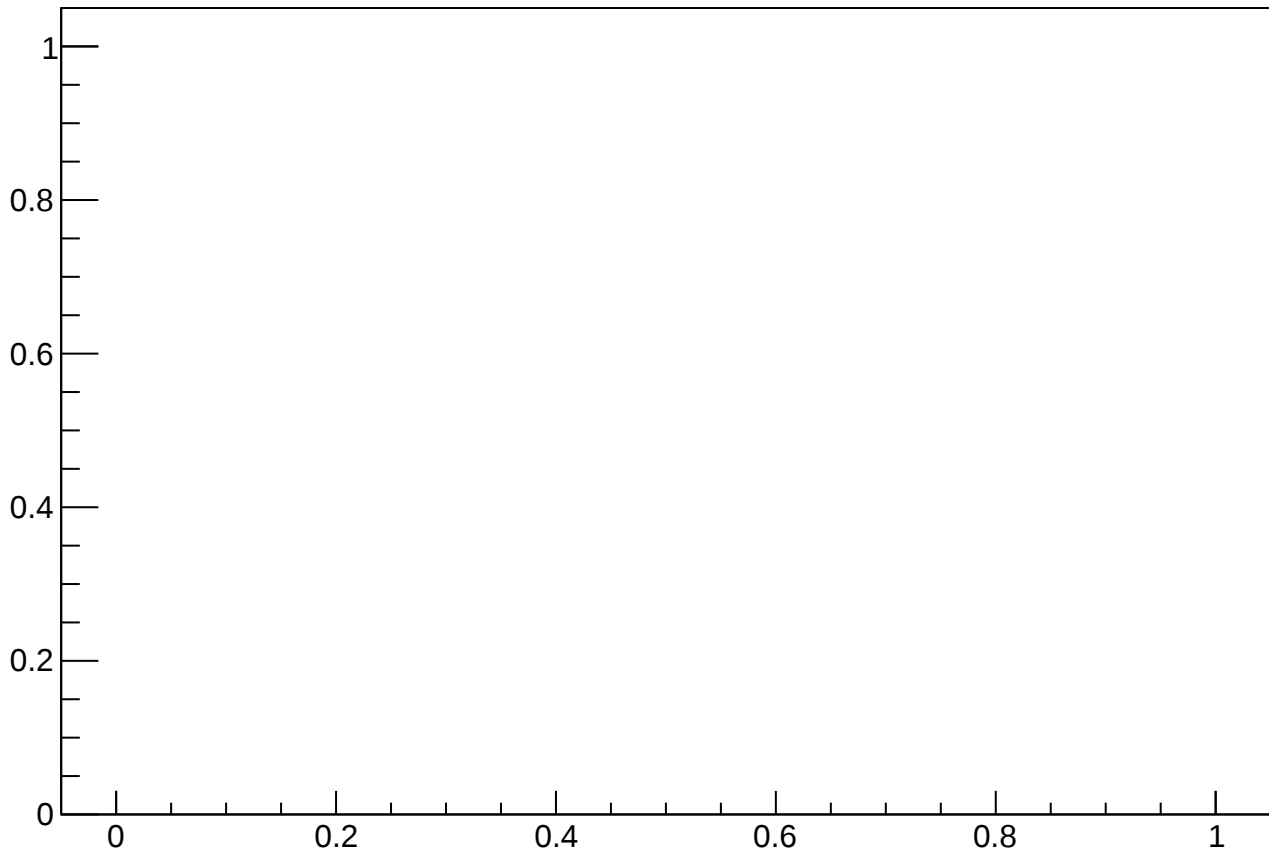
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_correction\_rms vs slug



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

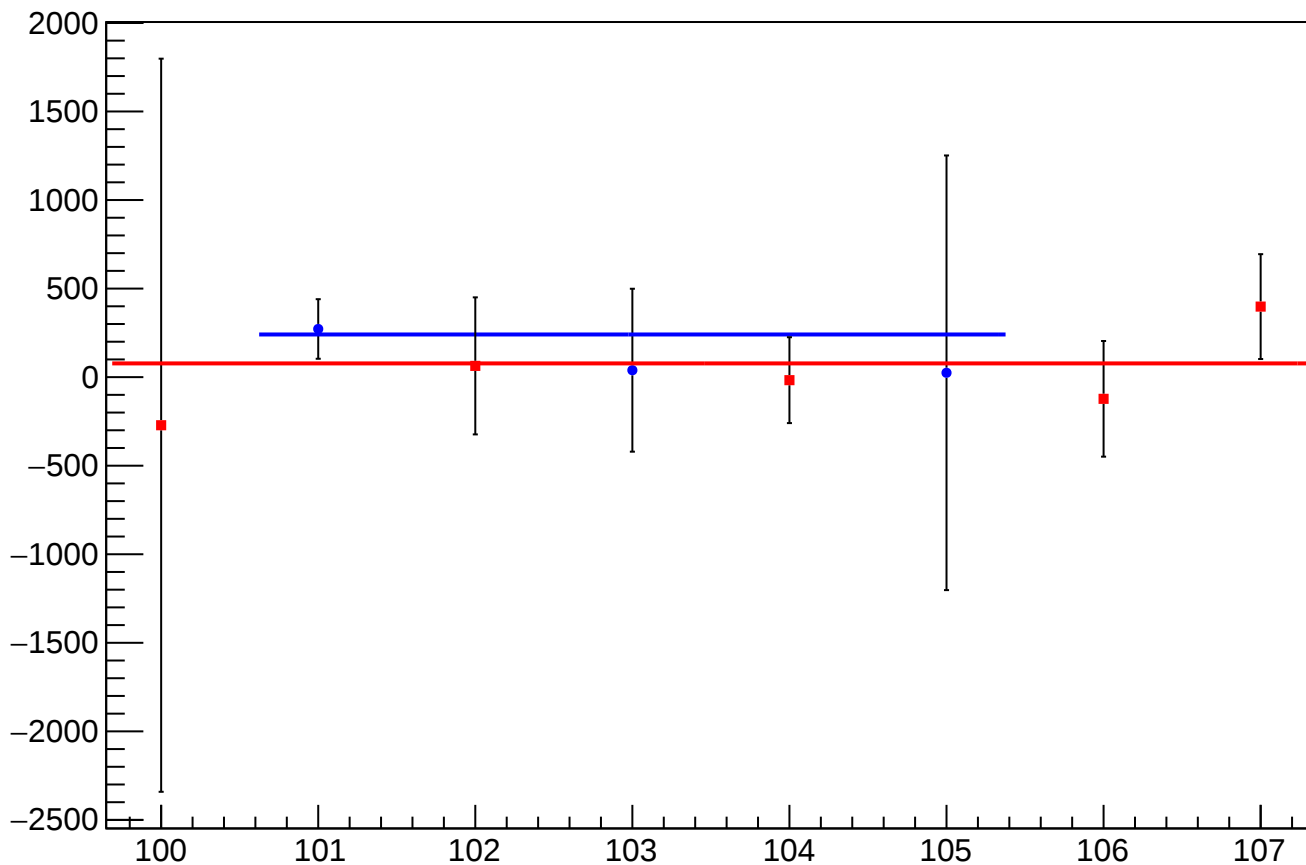
Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam3\_mean vs slug



Right In: 240.886 $\pm$ 156.679  $\chi^2$ /NDF: 0.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

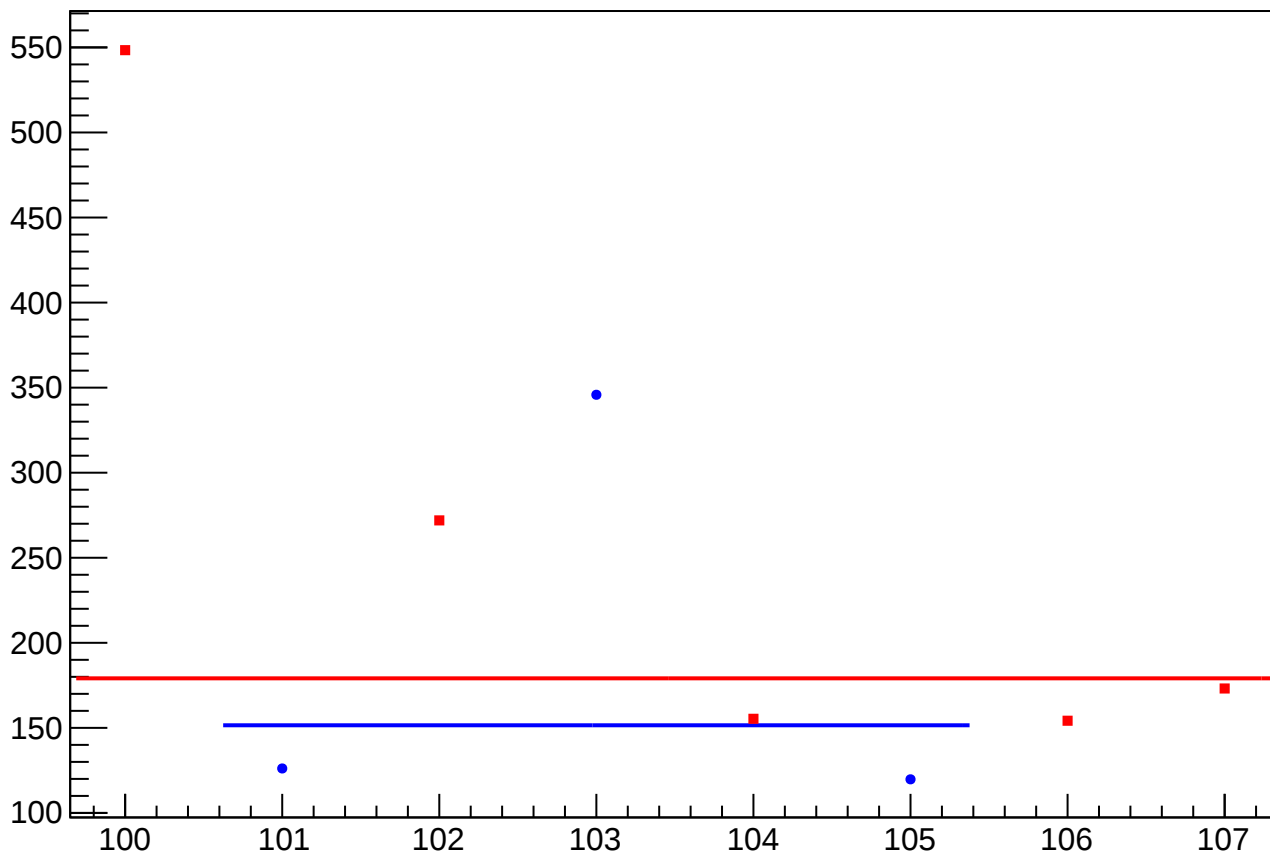
Right Out: 77.528 $\pm$ 149.532  $\chi^2$ /NDF: 1.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

240.886 $\pm$ 156.679  $\chi^2$ /NDF: 0.3/2

77.528 $\pm$ 149.532  $\chi^2$ /NDF: 1.7/4

# reg\_asym\_sam3\_rms vs slug



Right In: 151.523+/-0.111  $\chi^2/\text{NDF}$ : 403744.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

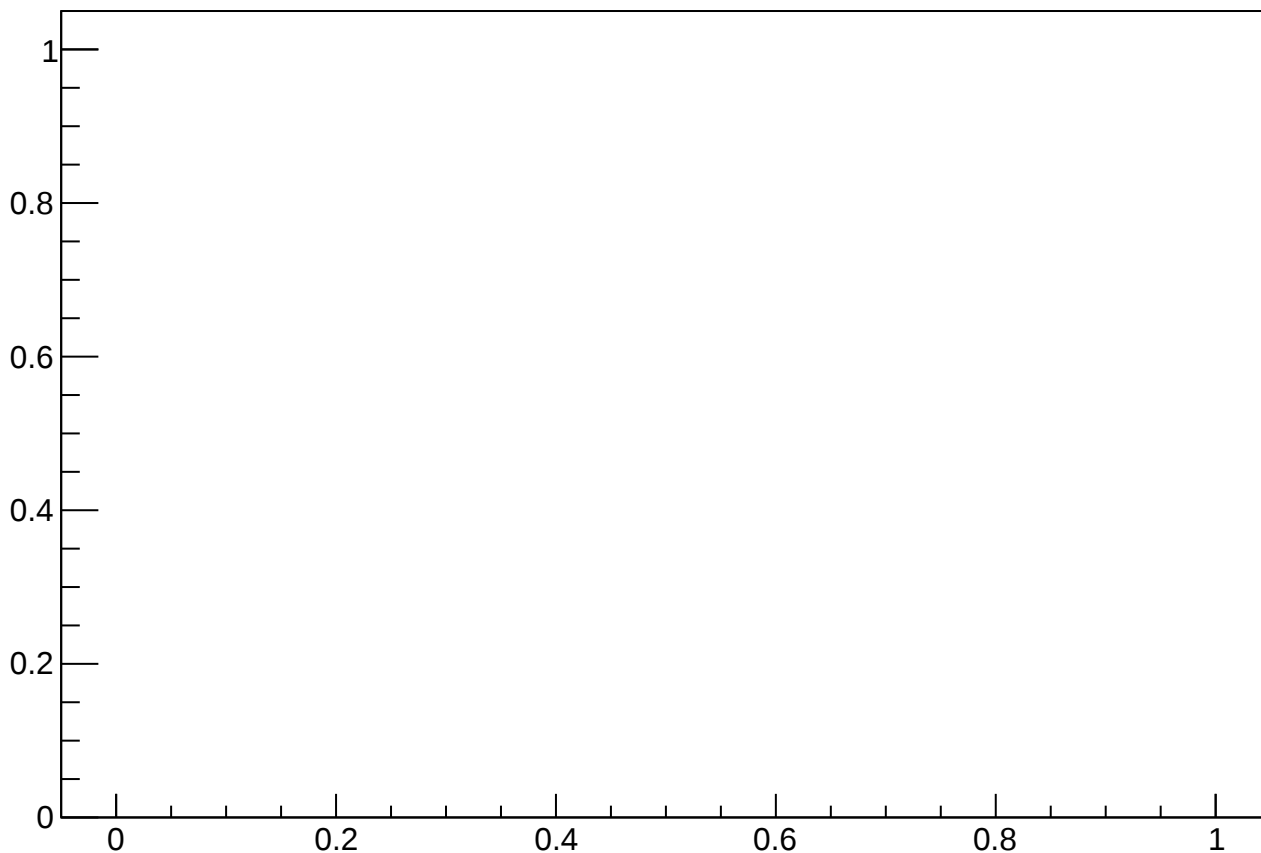
Right Out: 179.117+/-0.106  $\chi^2/\text{NDF}$ : 210550.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

151.523+/-0.111  $\chi^2/\text{NDF}$ : 403744.0/2

179.117+/-0.106  $\chi^2/\text{NDF}$ : 210550.0/4

# asym\_sam3\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

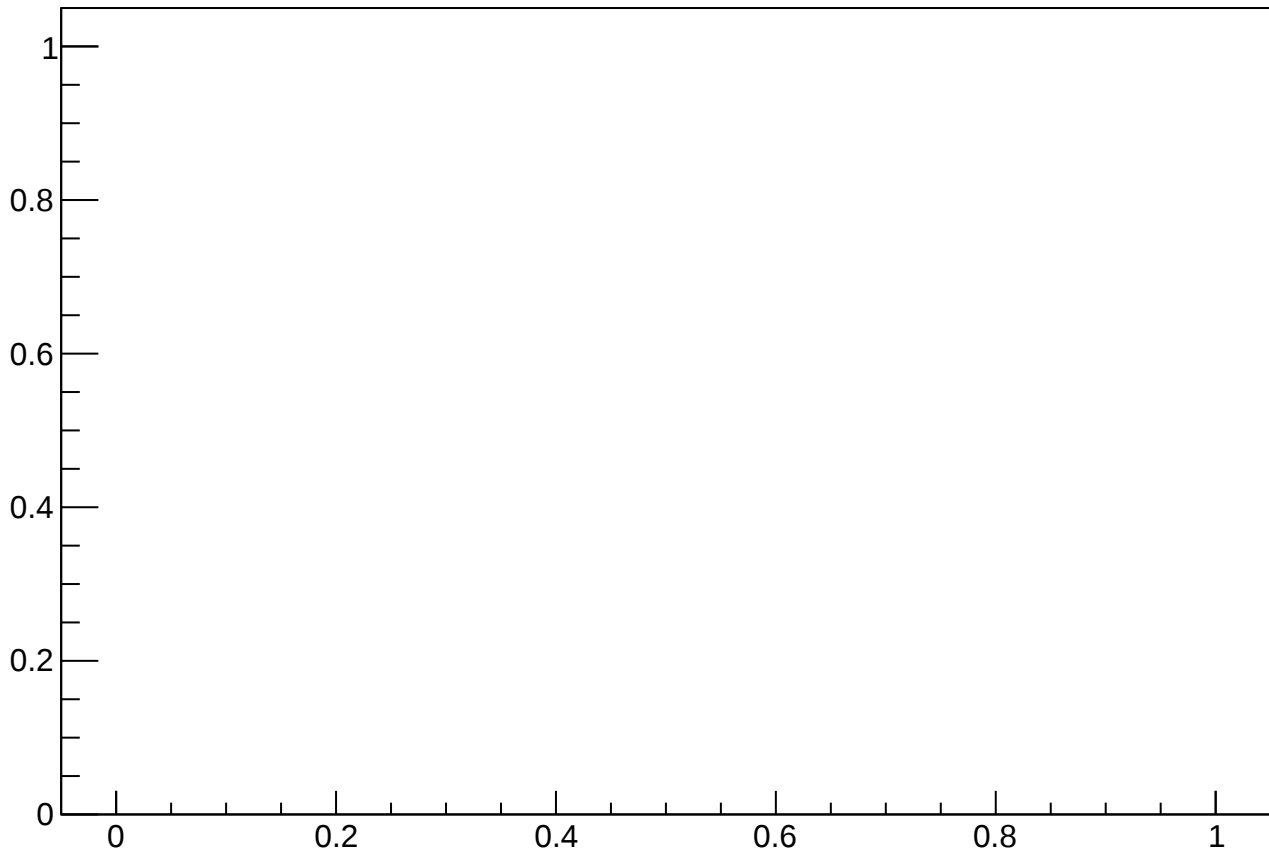
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_correction\_rms vs slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

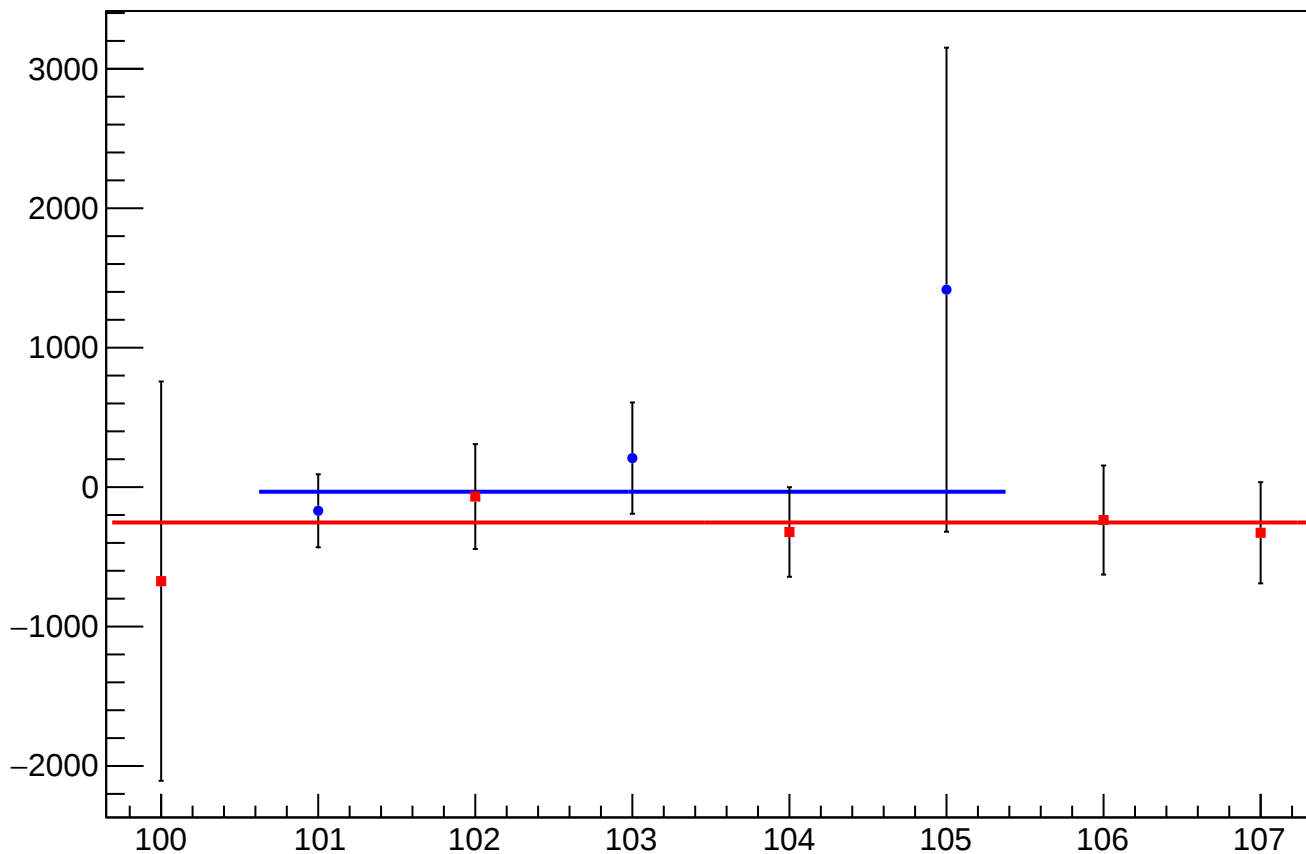
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_mean vs slug



Right In: -33.108+/-217.214  $\chi^2/\text{NDF}$ : 1.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

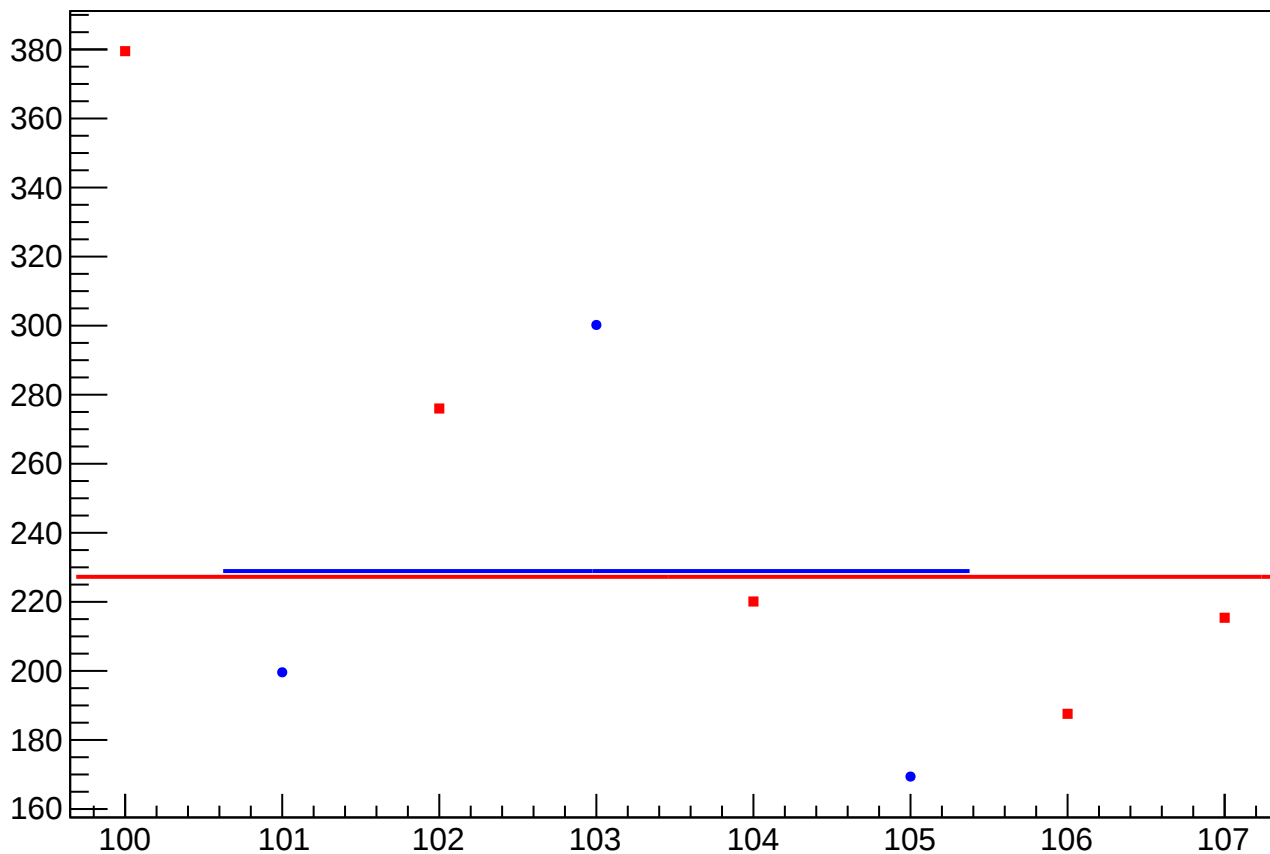
Right Out: -253.553+/-178.517  $\chi^2/\text{NDF}$ : 0.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-33.108+/-217.214  $\chi^2/\text{NDF}$ : 1.3/2

-253.553+/-178.517  $\chi^2/\text{NDF}$ : 0.4/4

# reg\_asym\_sam4\_rms vs slug



Right In: 228.918 $\pm$ 0.154  $\chi^2$ /NDF: 91216.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

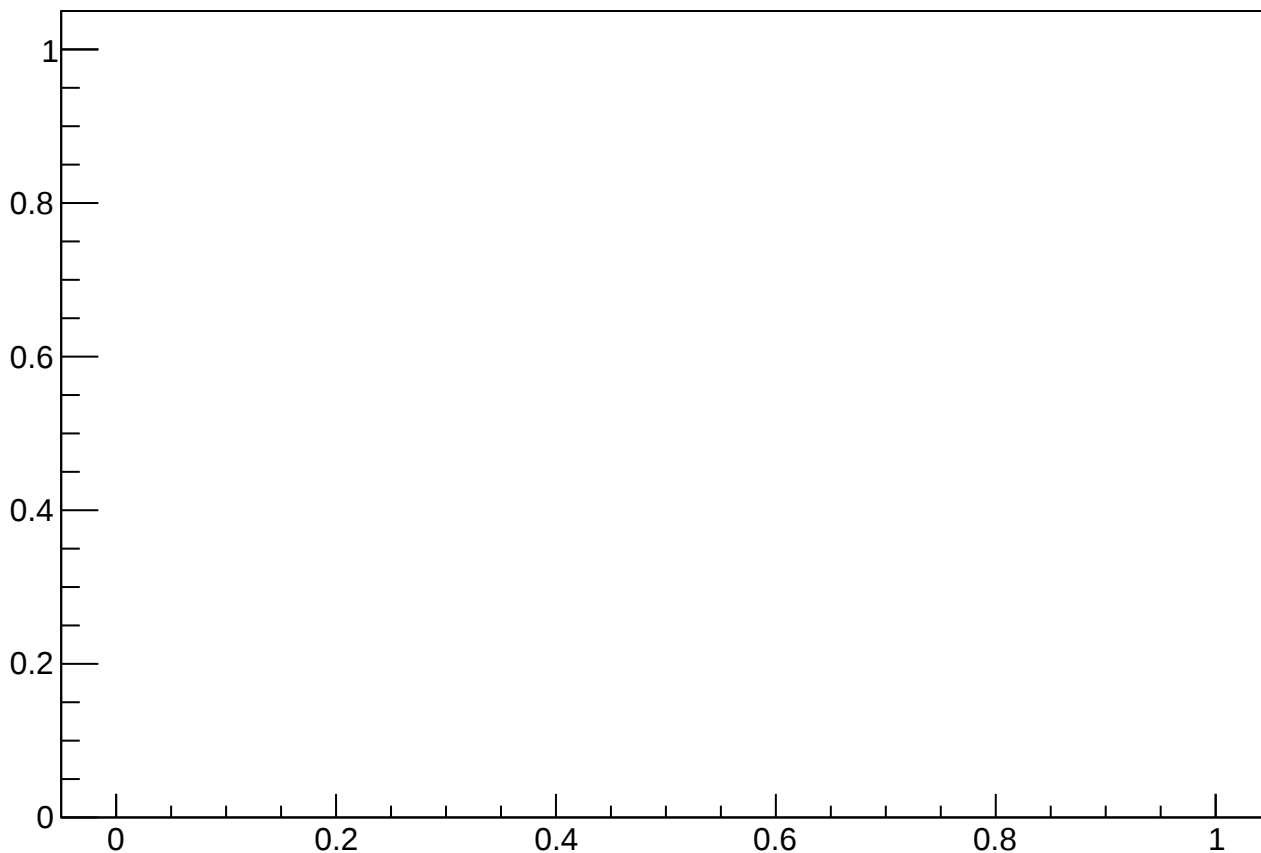
Right Out: 227.255 $\pm$ 0.126  $\chi^2$ /NDF: 79914.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

228.918 $\pm$ 0.154  $\chi^2$ /NDF: 91216.3/2

227.255 $\pm$ 0.126  $\chi^2$ /NDF: 79914.1/4

# asym\_sam4\_correction\_mean vs slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

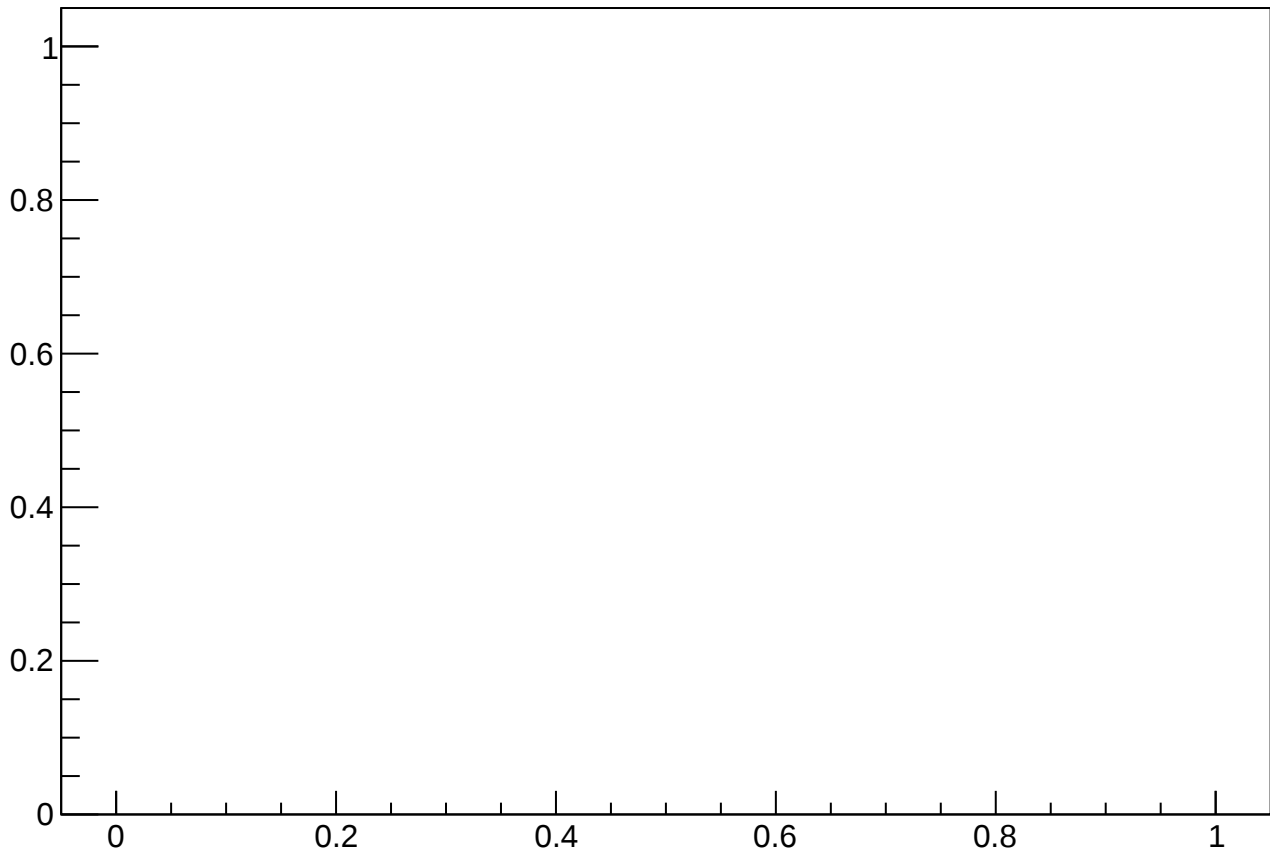
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

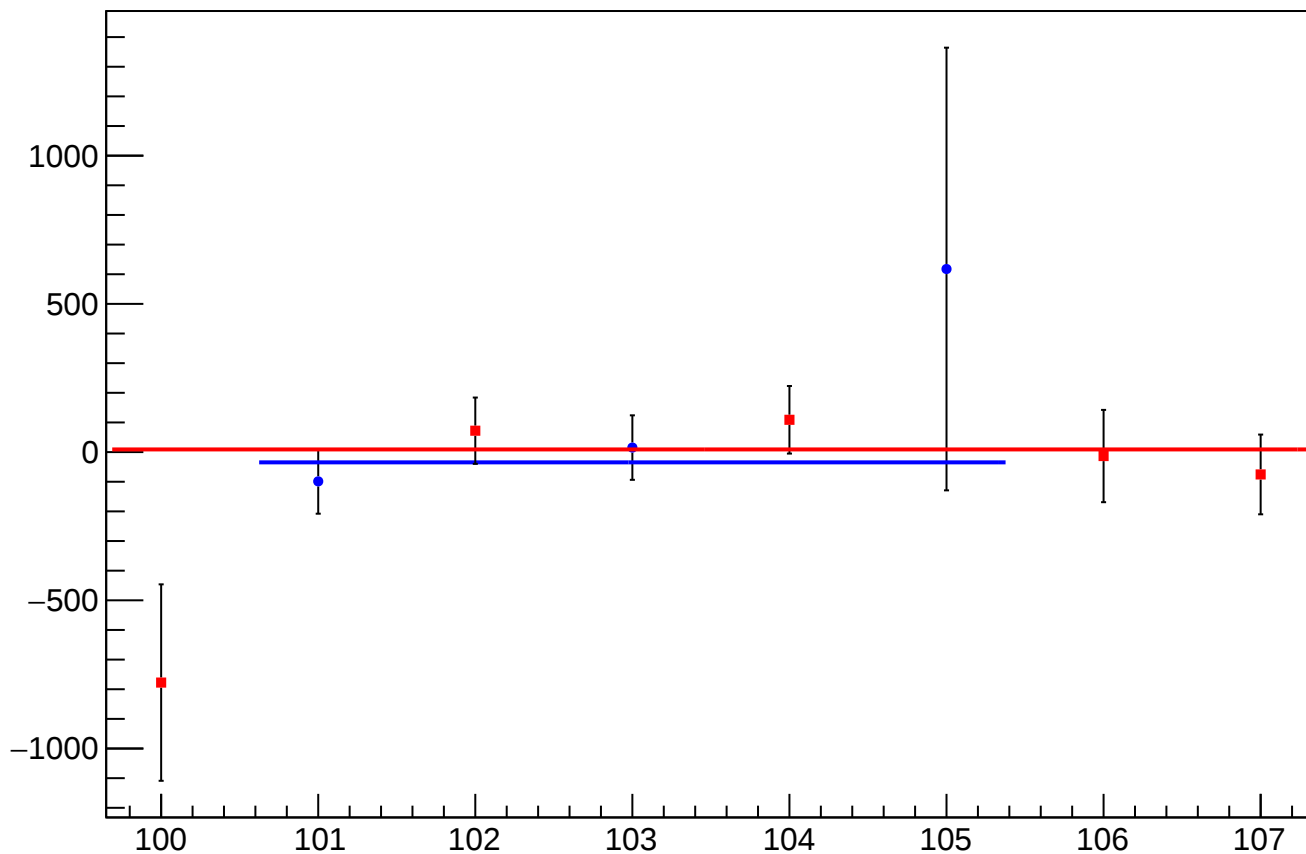
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_mean vs slug



Right In: -34.625+/-76.632  $\chi^2/\text{NDF}$ : 1.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

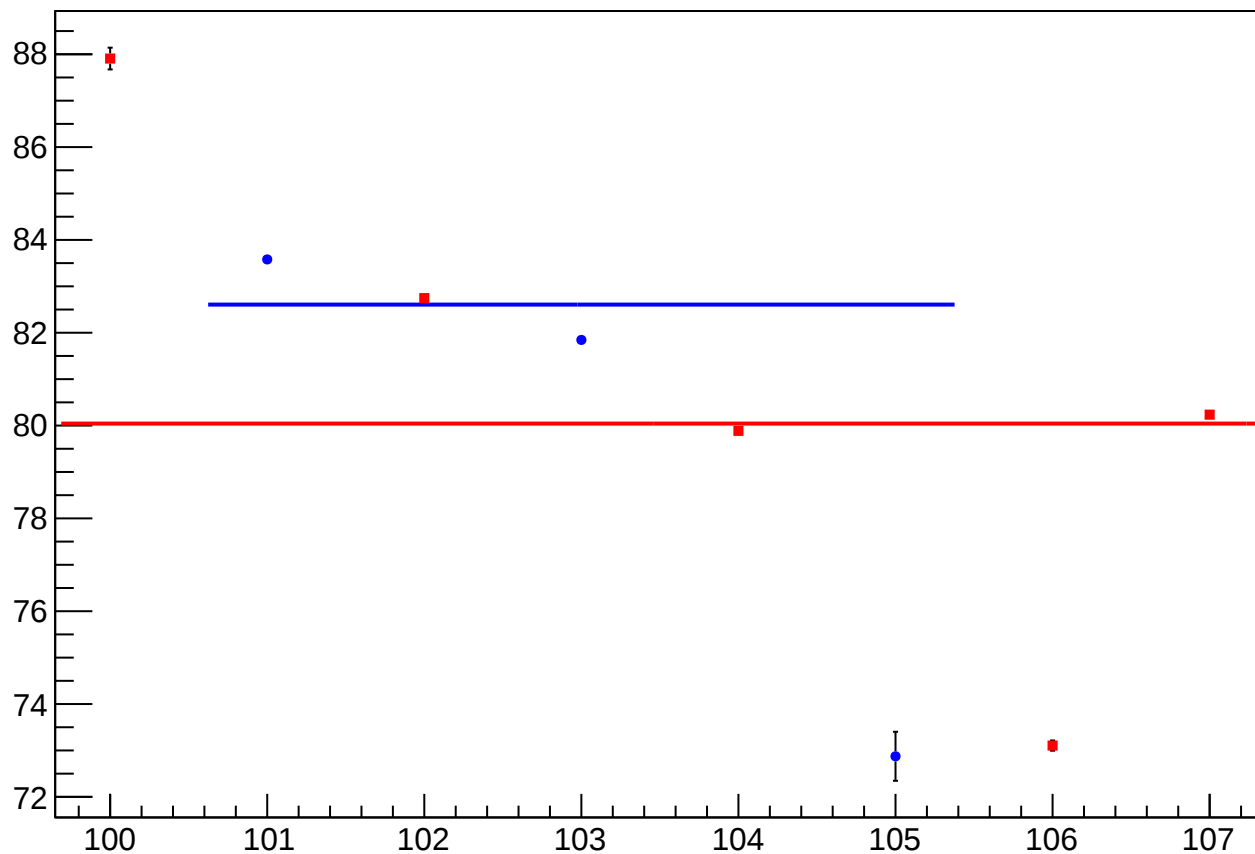
Right Out: 8.991+/-61.713  $\chi^2/\text{NDF}$ : 7.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-34.625+/-76.632  $\chi^2/\text{NDF}$ : 1.3/2

8.991+/-61.713  $\chi^2/\text{NDF}$ : 7.1/4

# reg\_asym\_sam5\_rms vs slug



Right In: 82.606+/-0.054  $\chi^2/\text{NDF}$ : 596.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

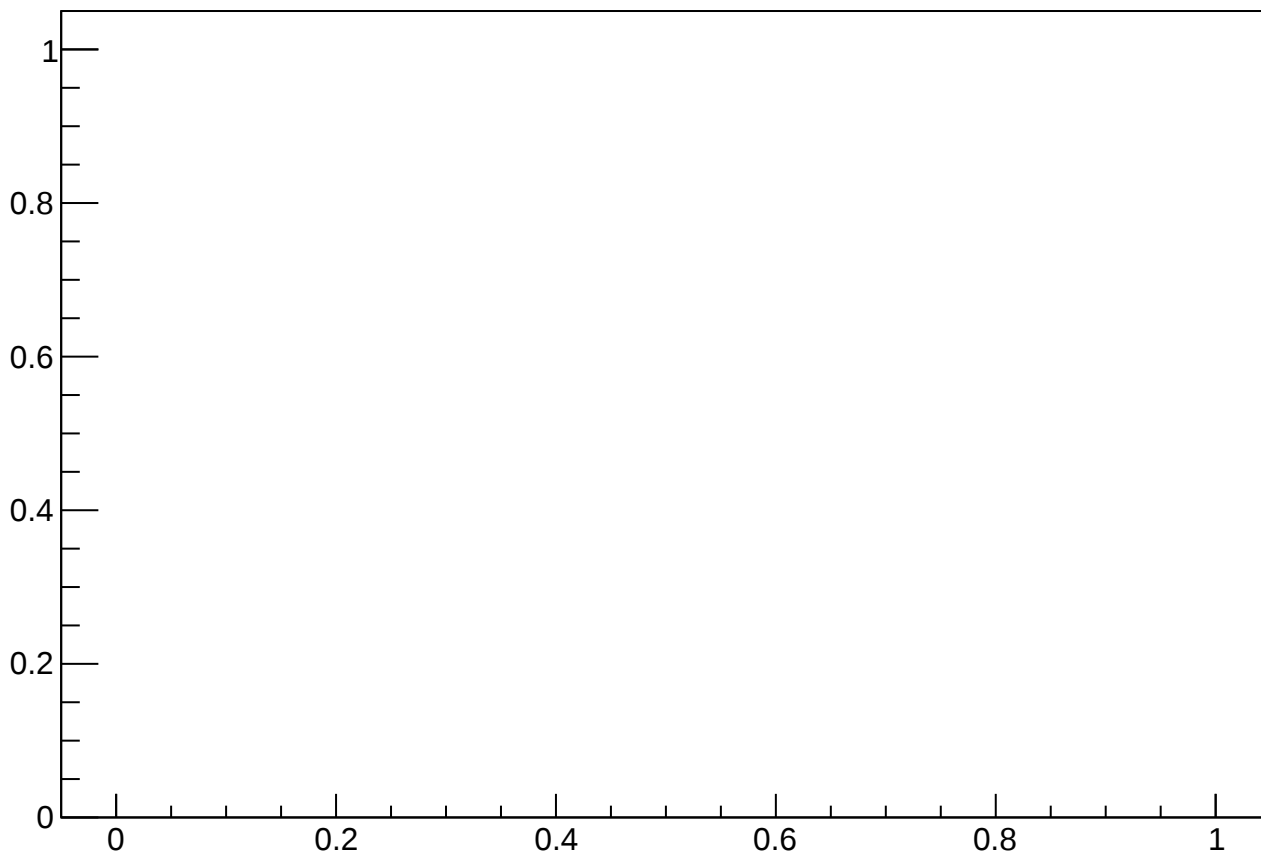
Right Out: 80.043+/-0.044  $\chi^2/\text{NDF}$ : 6274.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

82.606+/-0.054  $\chi^2/\text{NDF}$ : 596.8/2

80.043+/-0.044  $\chi^2/\text{NDF}$ : 6274.6/4

# asym\_sam5\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

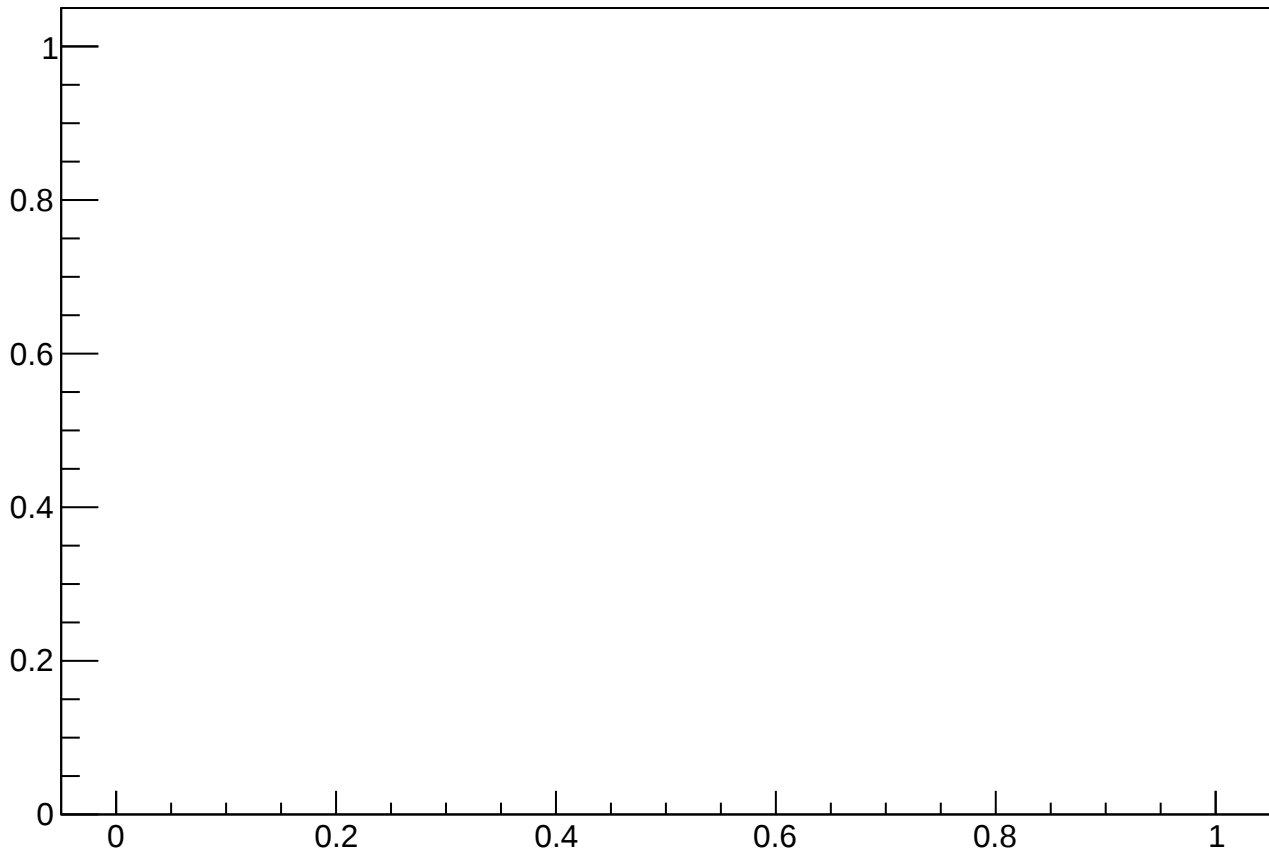
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

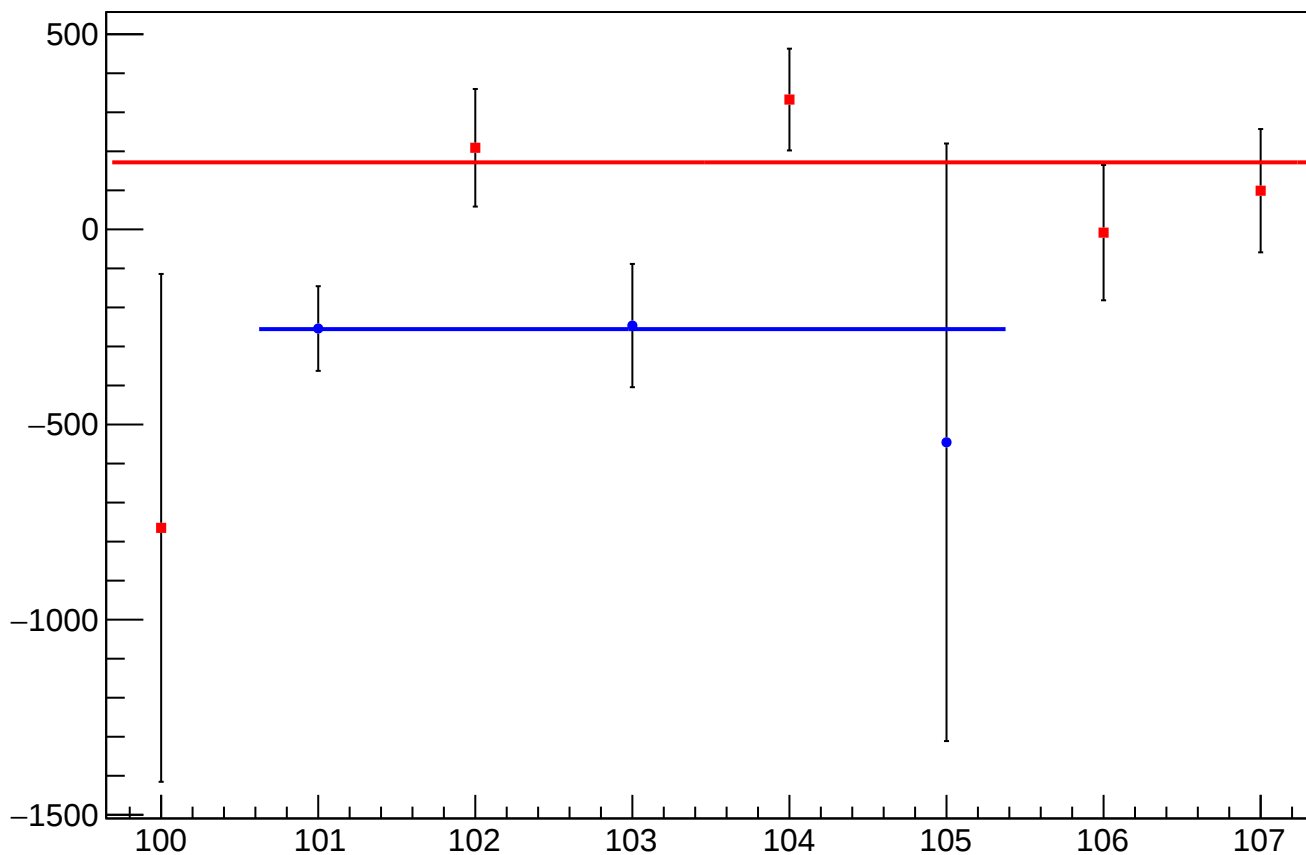
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_mean vs slug



Right In: -255.557 $\pm$ 88.794  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

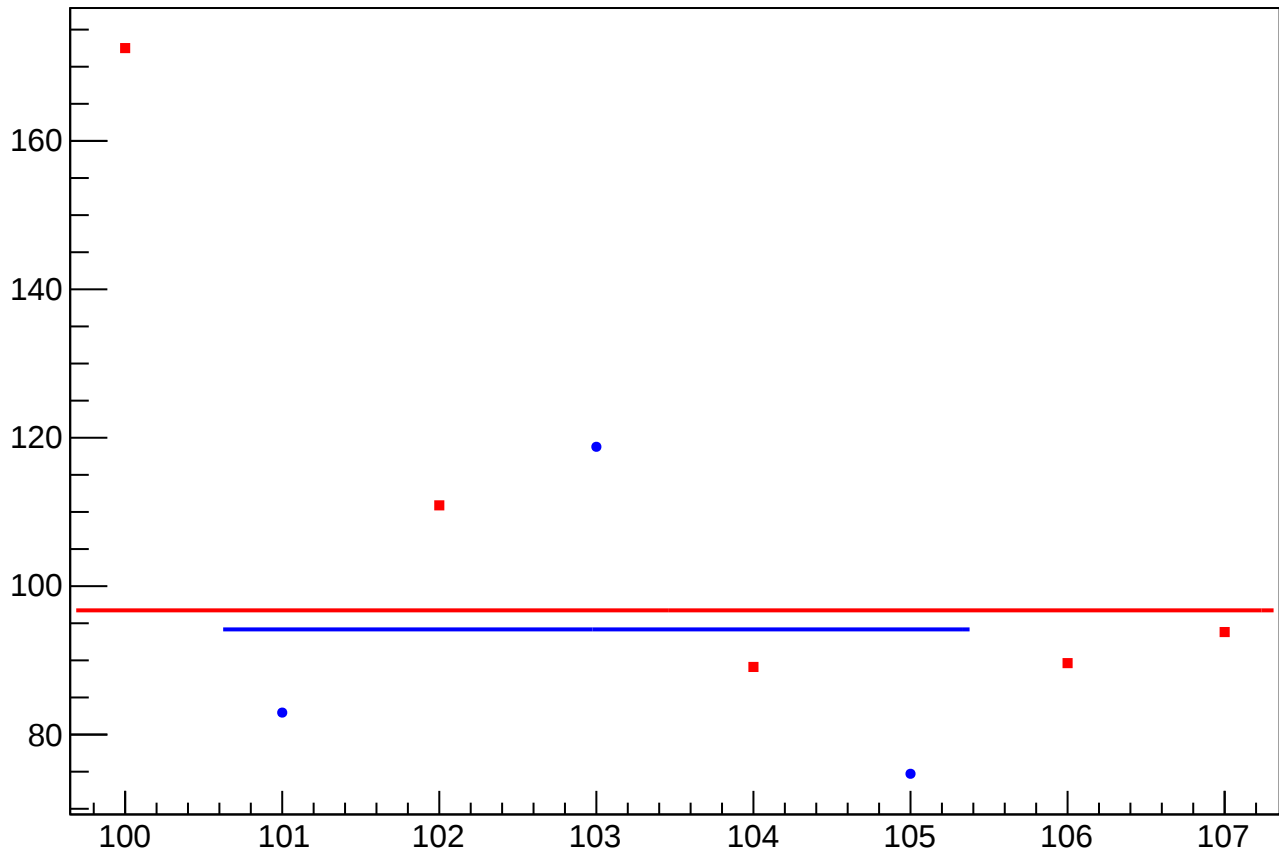
Right Out: 171.741 $\pm$ 74.827  $\chi^2$ /NDF: 4.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-255.557 $\pm$ 88.794  $\chi^2$ /NDF: 0.1/2

171.741 $\pm$ 74.827  $\chi^2$ /NDF: 4.9/4

# reg\_asym\_sam6\_rms vs slug



Right In: 94.173+/-0.063  $\chi^2/\text{NDF}$ : 71217.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

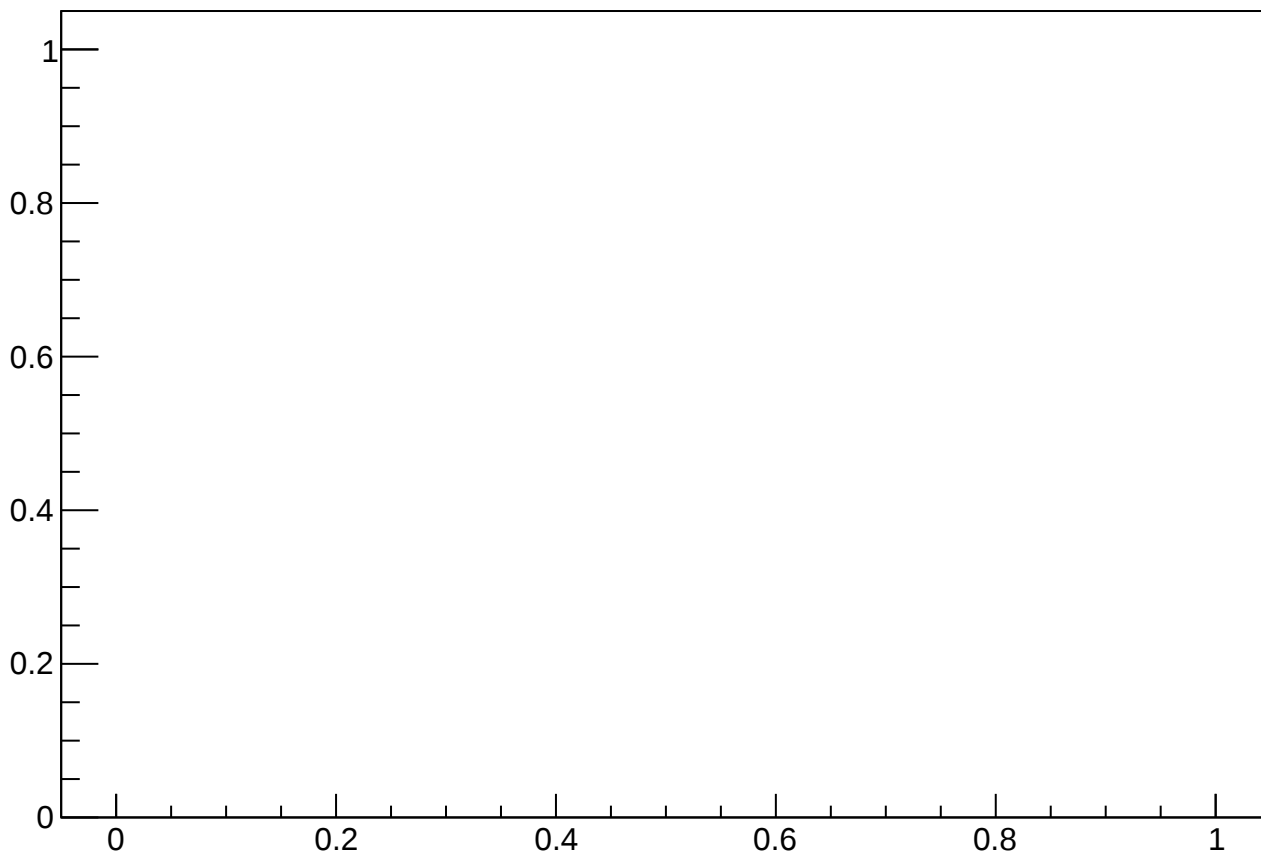
Right Out: 96.740+/-0.053  $\chi^2/\text{NDF}$ : 55661.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

94.173+/-0.063  $\chi^2/\text{NDF}$ : 71217.9/2

96.740+/-0.053  $\chi^2/\text{NDF}$ : 55661.0/4

asym\_sam6\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

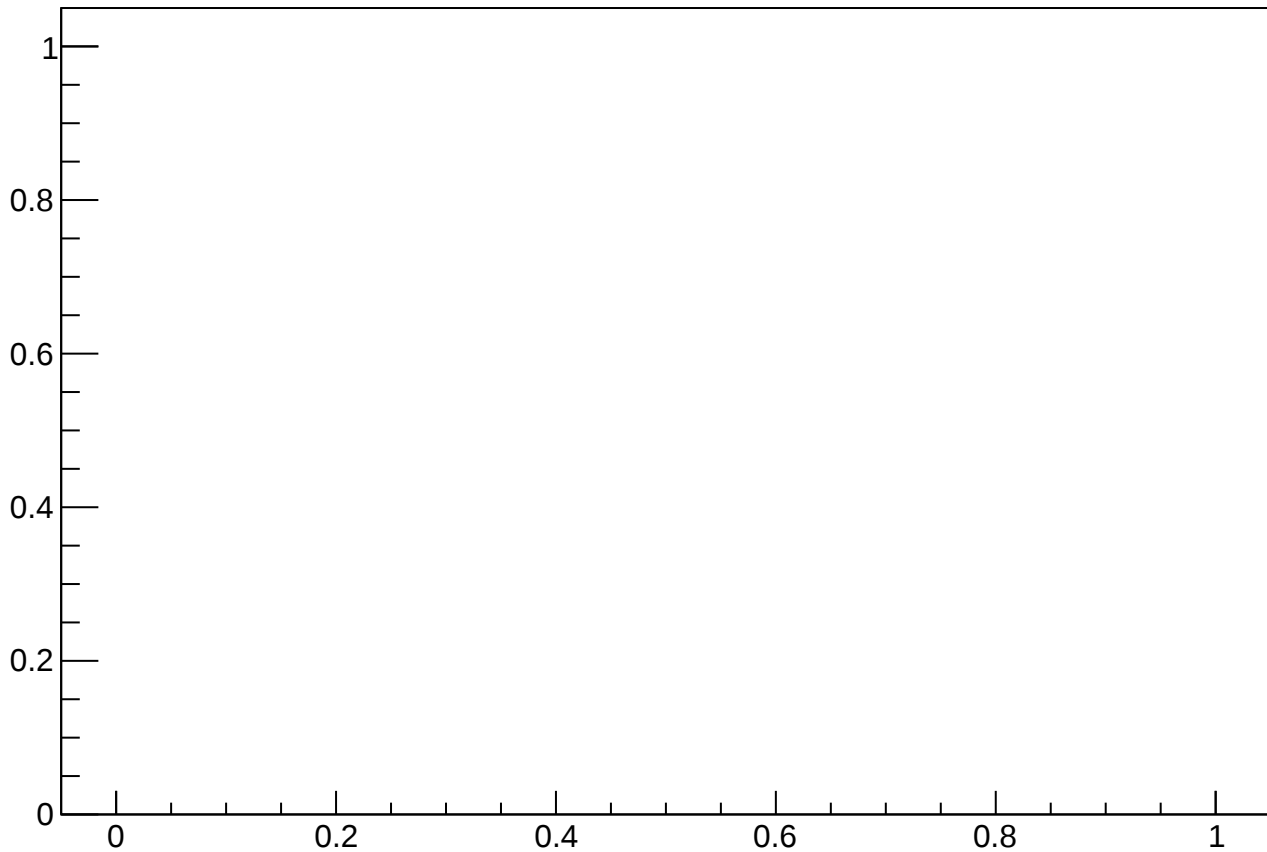
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_correction\_rms vs slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

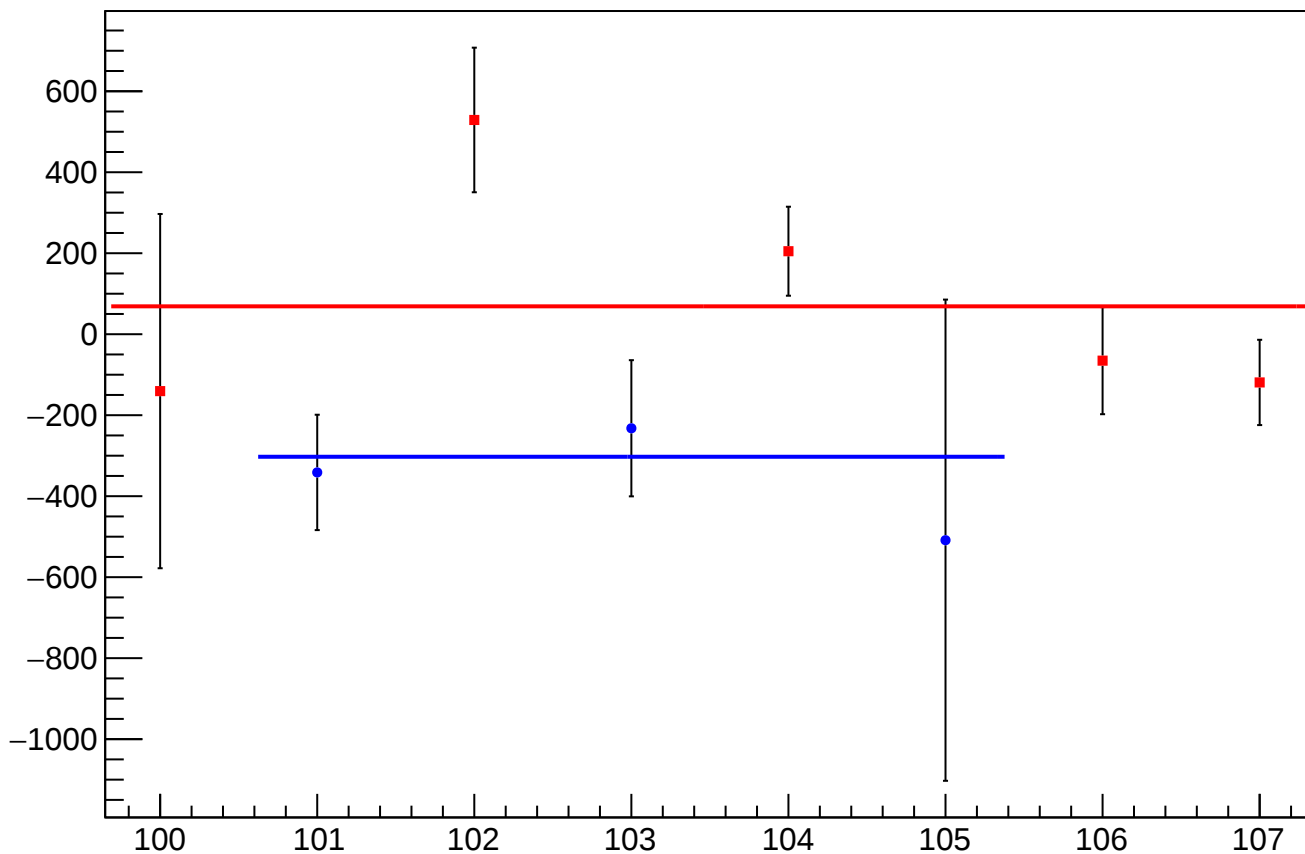
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_mean vs slug



Right In: -302.628+/-106.921  $\chi^2$ /NDF: 0.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

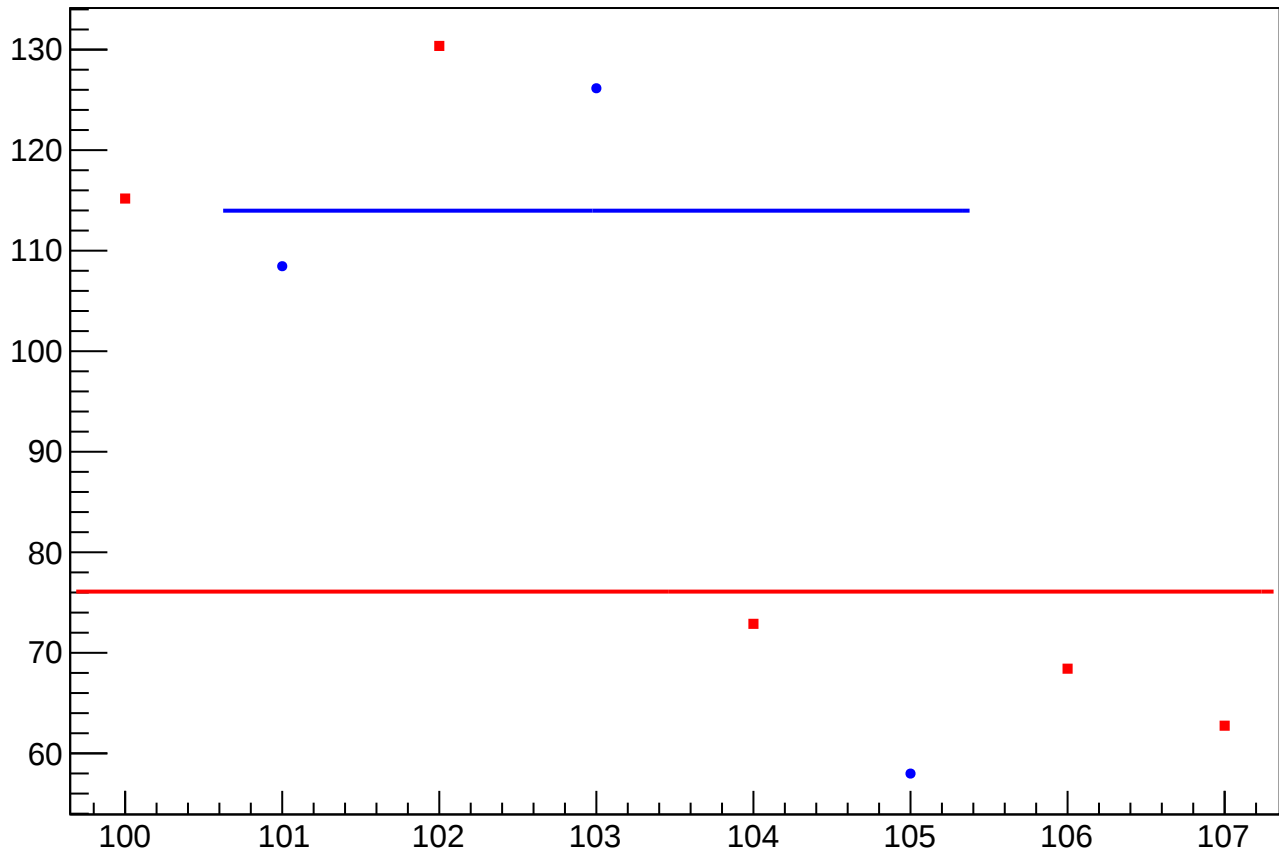
Right Out: 68.841+/-61.226  $\chi^2$ /NDF: 12.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-302.628+/-106.921  $\chi^2$ /NDF: 0.4/2

68.841+/-61.226  $\chi^2$ /NDF: 12.6/4

# reg\_asym\_sam7\_rms vs slug



Right In: 113.978+/-0.076  $\chi^2/\text{NDF}$ : 31253.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

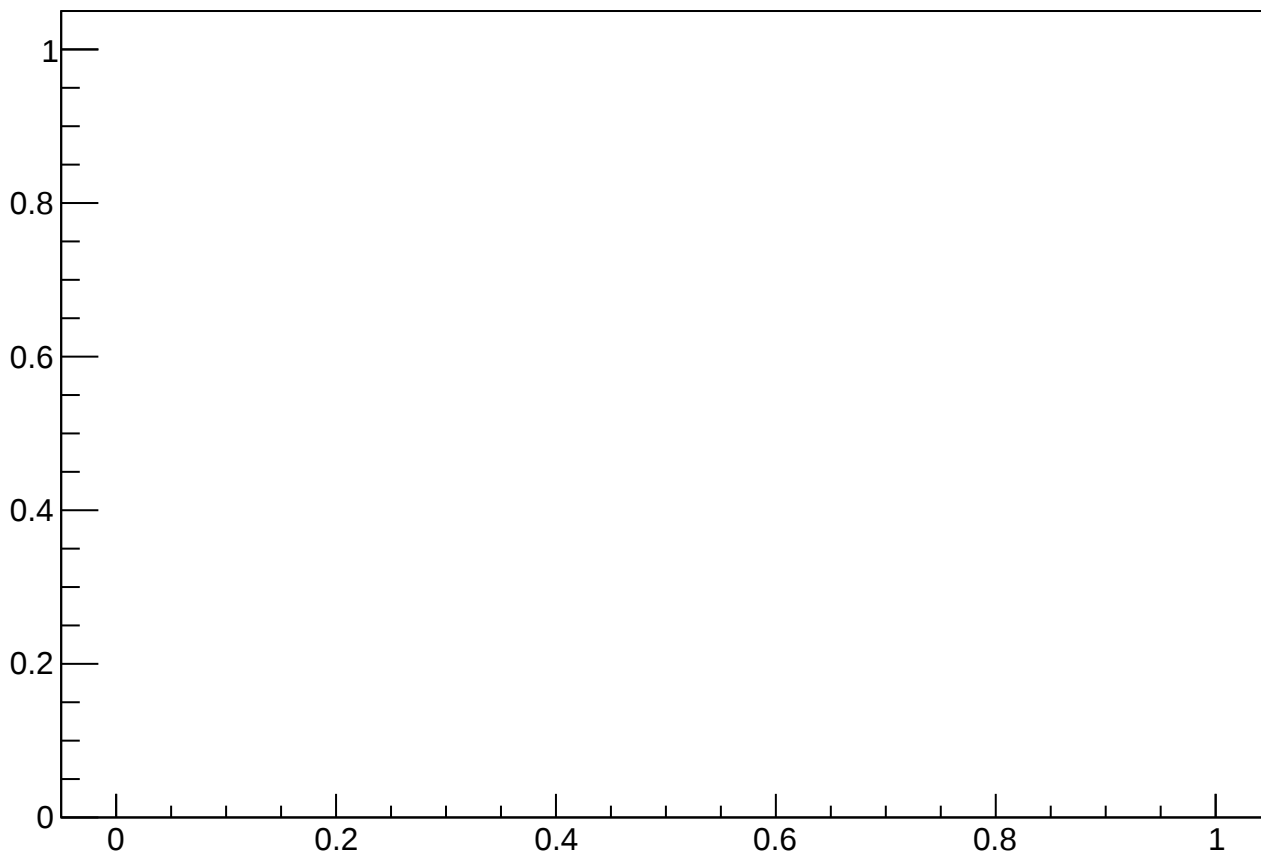
Right Out: 76.090+/-0.043  $\chi^2/\text{NDF}$ : 241306.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

113.978+/-0.076  $\chi^2/\text{NDF}$ : 31253.4/2

76.090+/-0.043  $\chi^2/\text{NDF}$ : 241306.1/4

# asym\_sam7\_correction\_mean vs slug



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

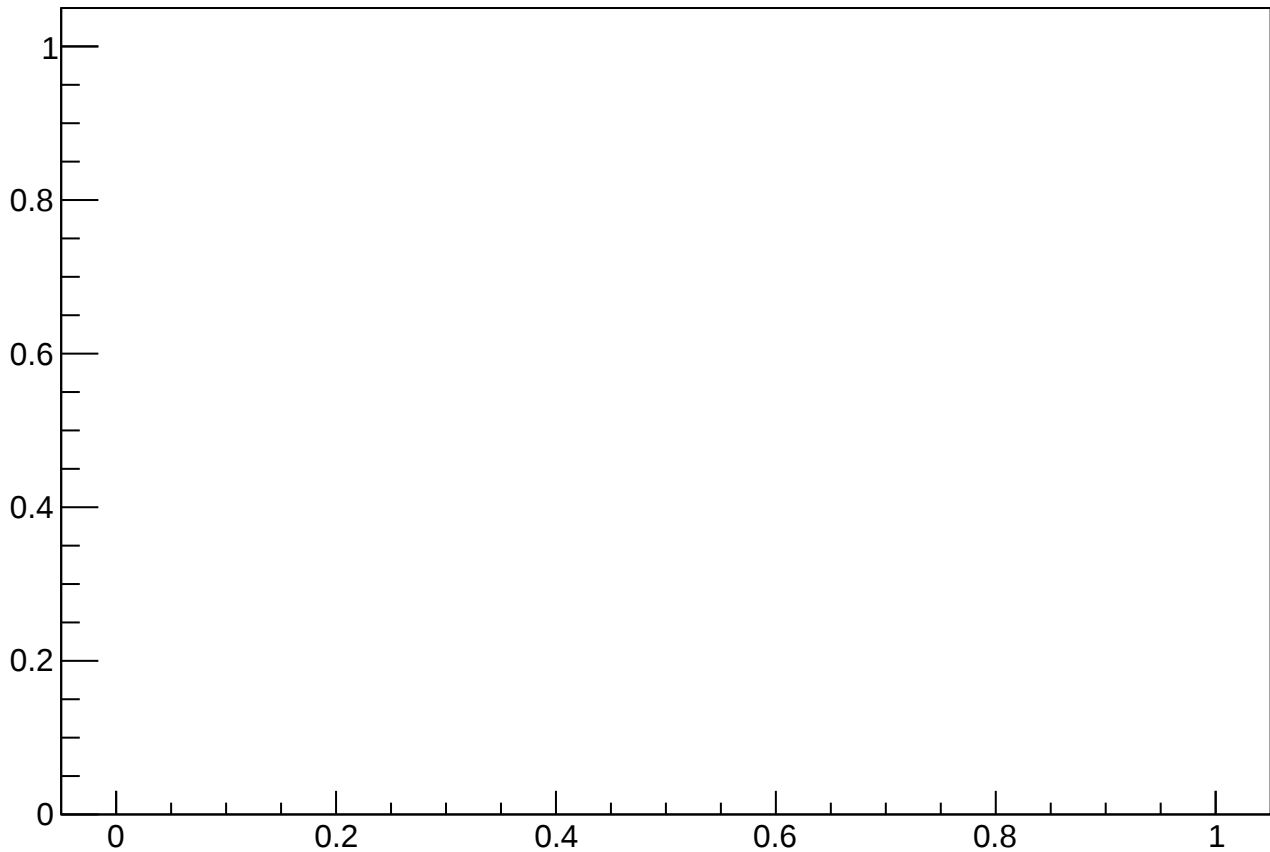
Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

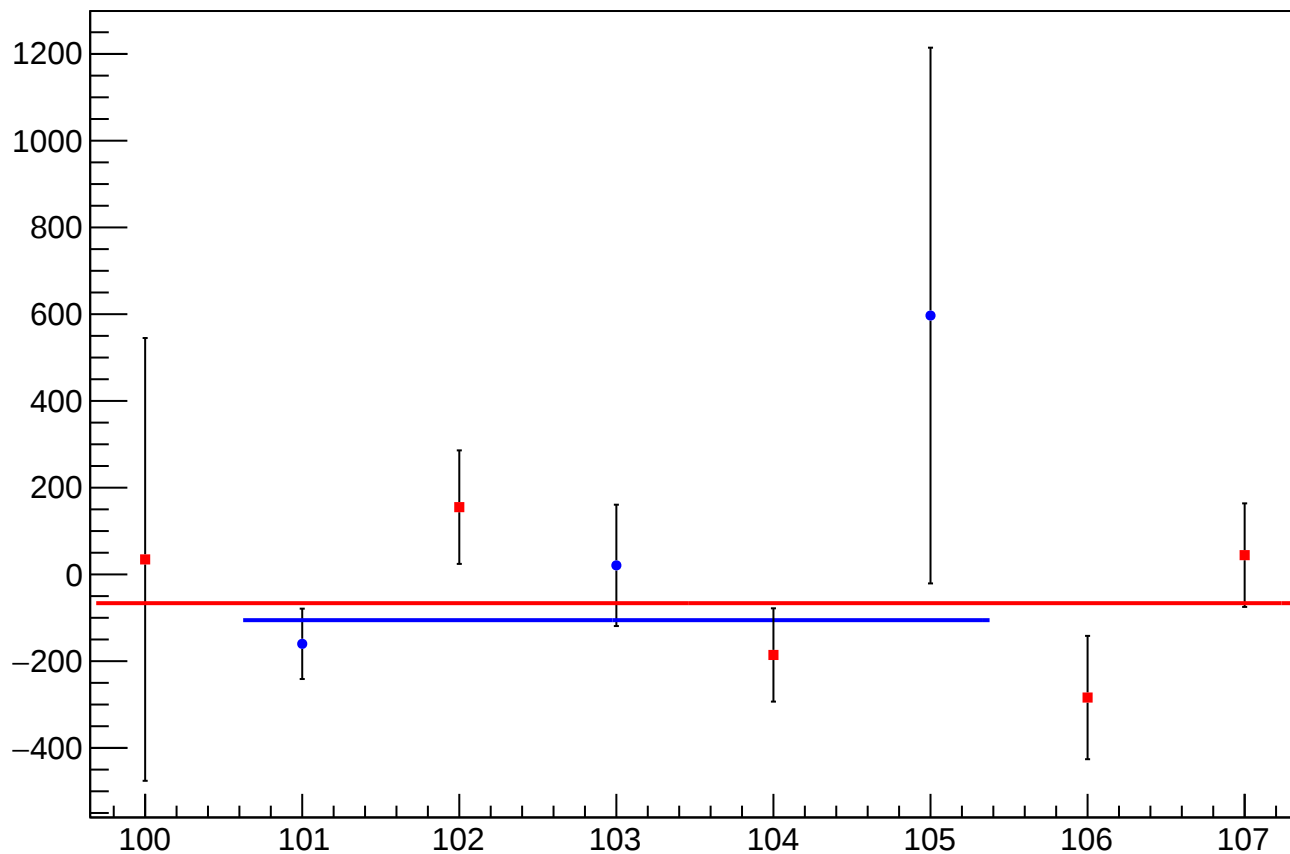
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam8\_mean vs slug



Right In: -105.460+/-69.716  $\chi^2/\text{NDF}$ : 2.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

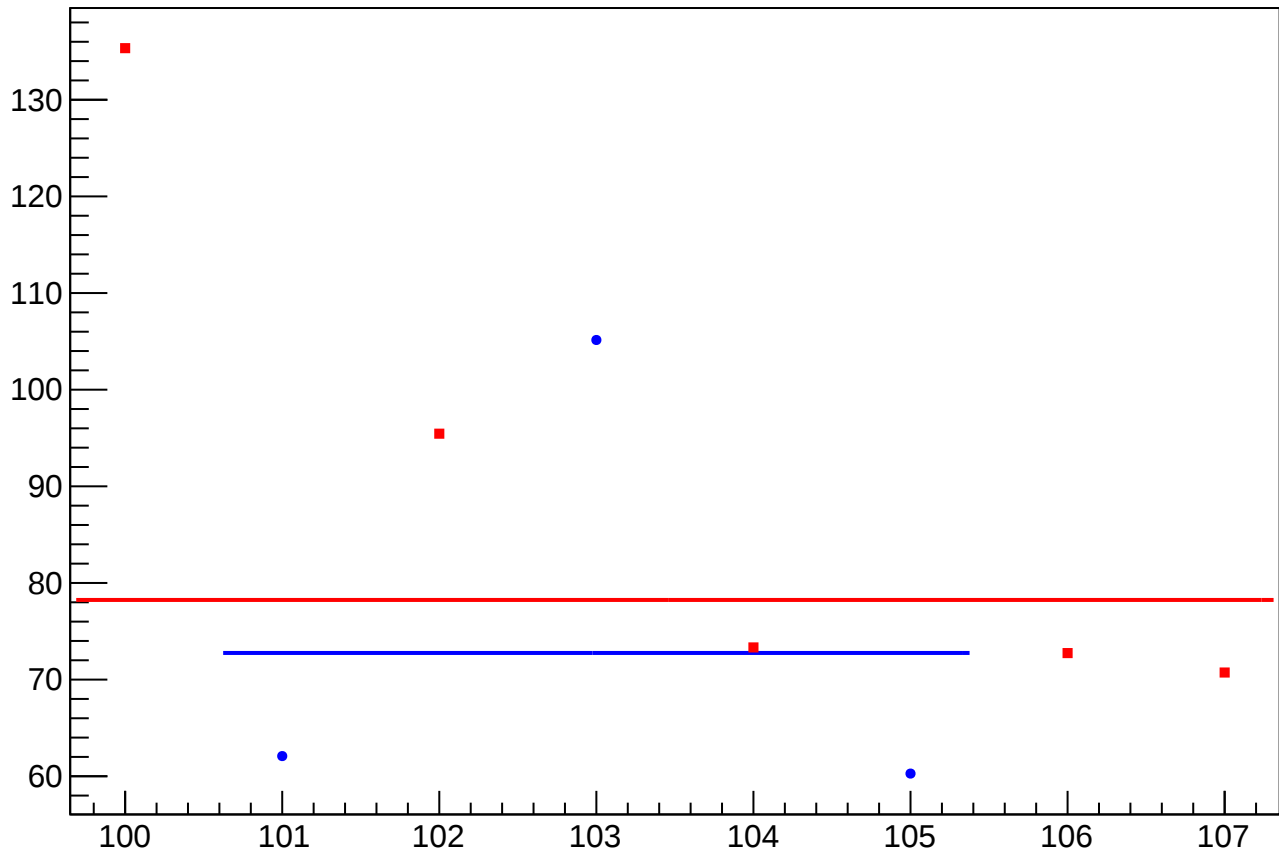
Right Out: -66.280+/-61.048  $\chi^2/\text{NDF}$ : 7.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-105.460+/-69.716  $\chi^2/\text{NDF}$ : 2.6/2

-66.280+/-61.048  $\chi^2/\text{NDF}$ : 7.3/4

# reg\_asym\_sam8\_rms vs slug



Right In: 72.758 $\pm$ 0.049  $\chi^2$ /NDF: 142631.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

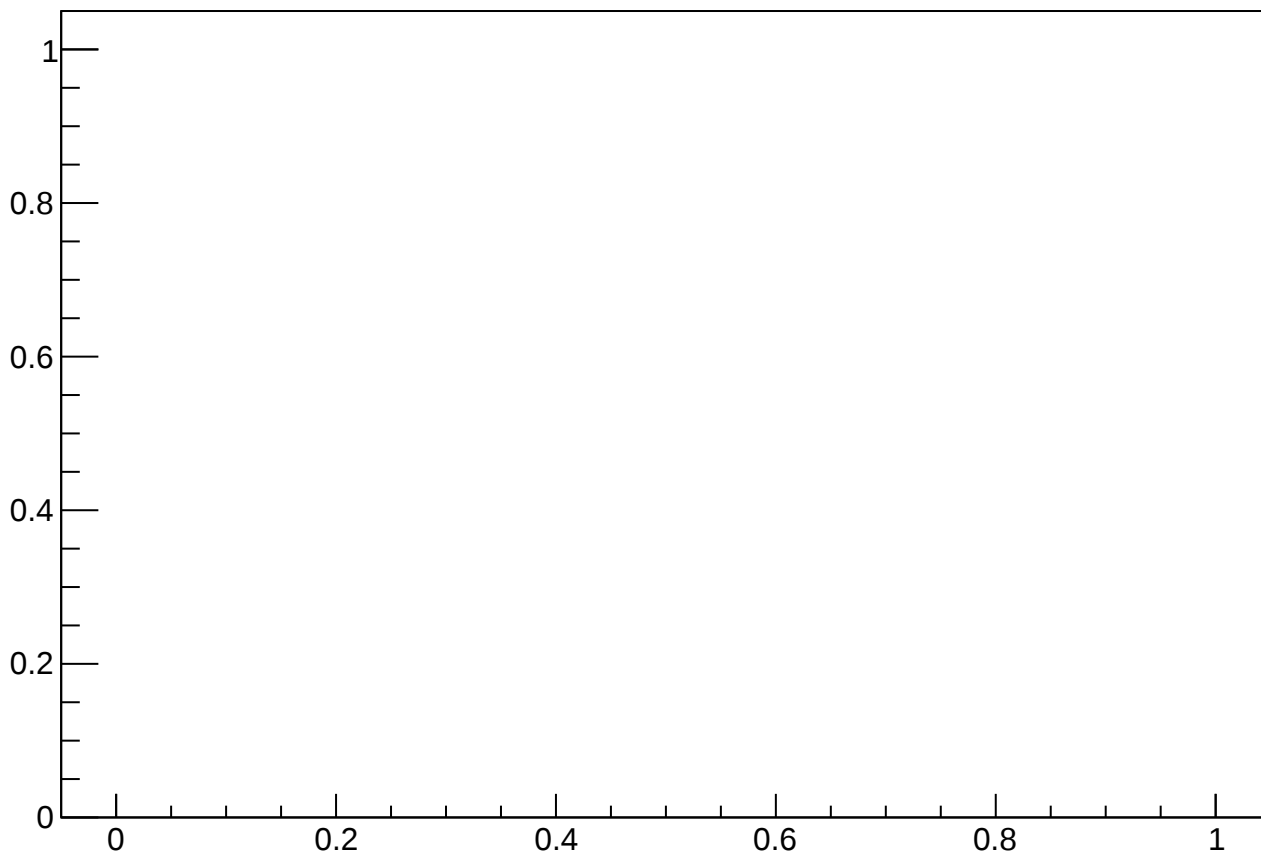
Right Out: 78.243 $\pm$ 0.043  $\chi^2$ /NDF: 74671.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

72.758 $\pm$ 0.049  $\chi^2$ /NDF: 142631.8/2

78.243 $\pm$ 0.043  $\chi^2$ /NDF: 74671.8/4

# asym\_sam8\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

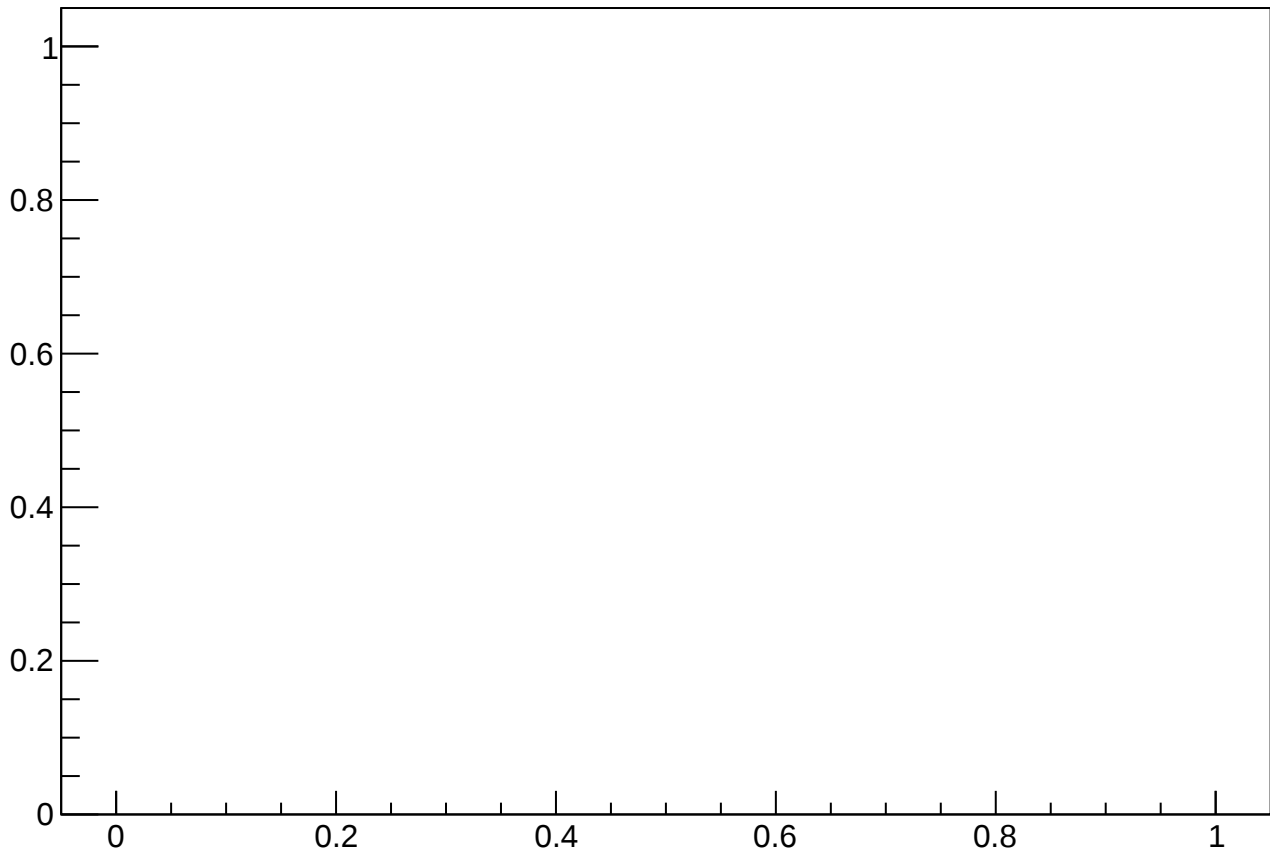
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

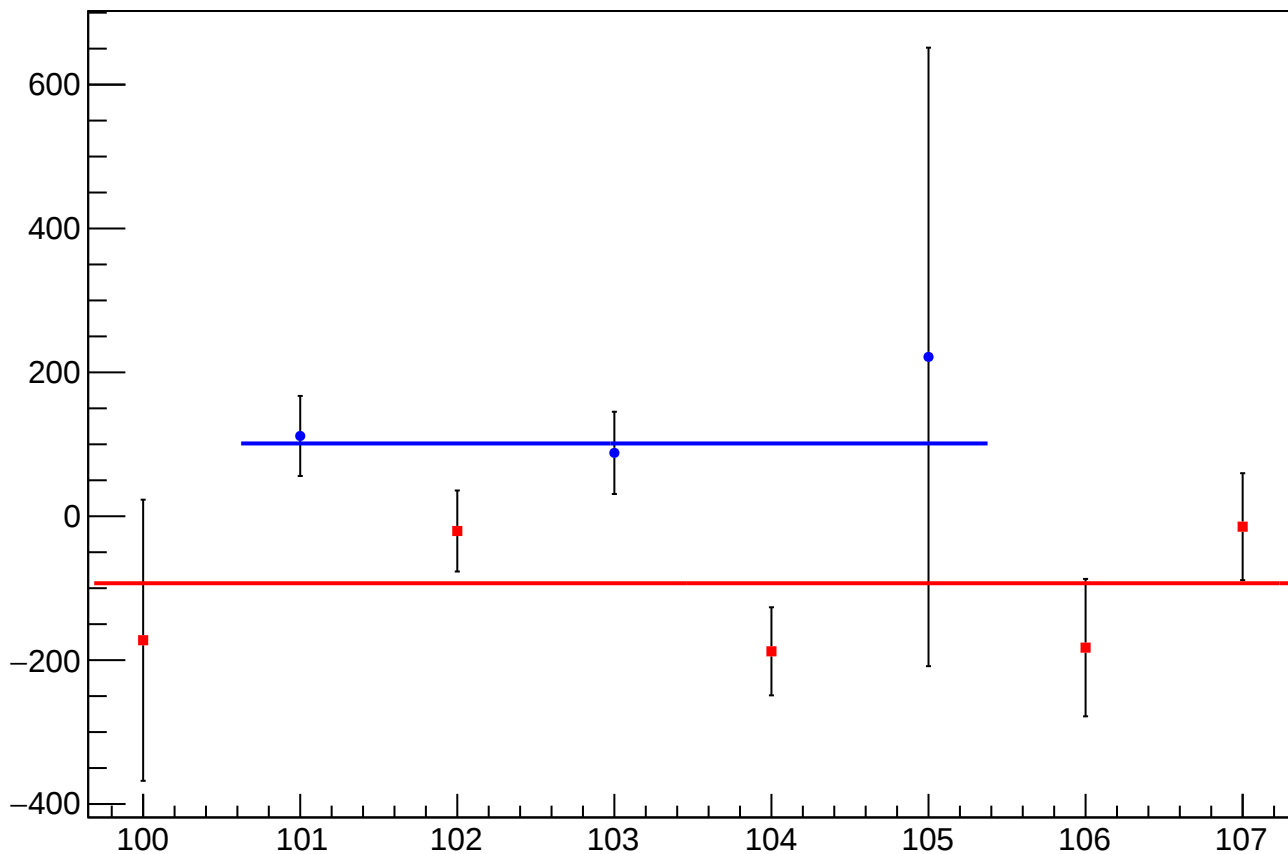
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_avg\_mean vs slug



Right In: 101.198 $\pm$ 39.716  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

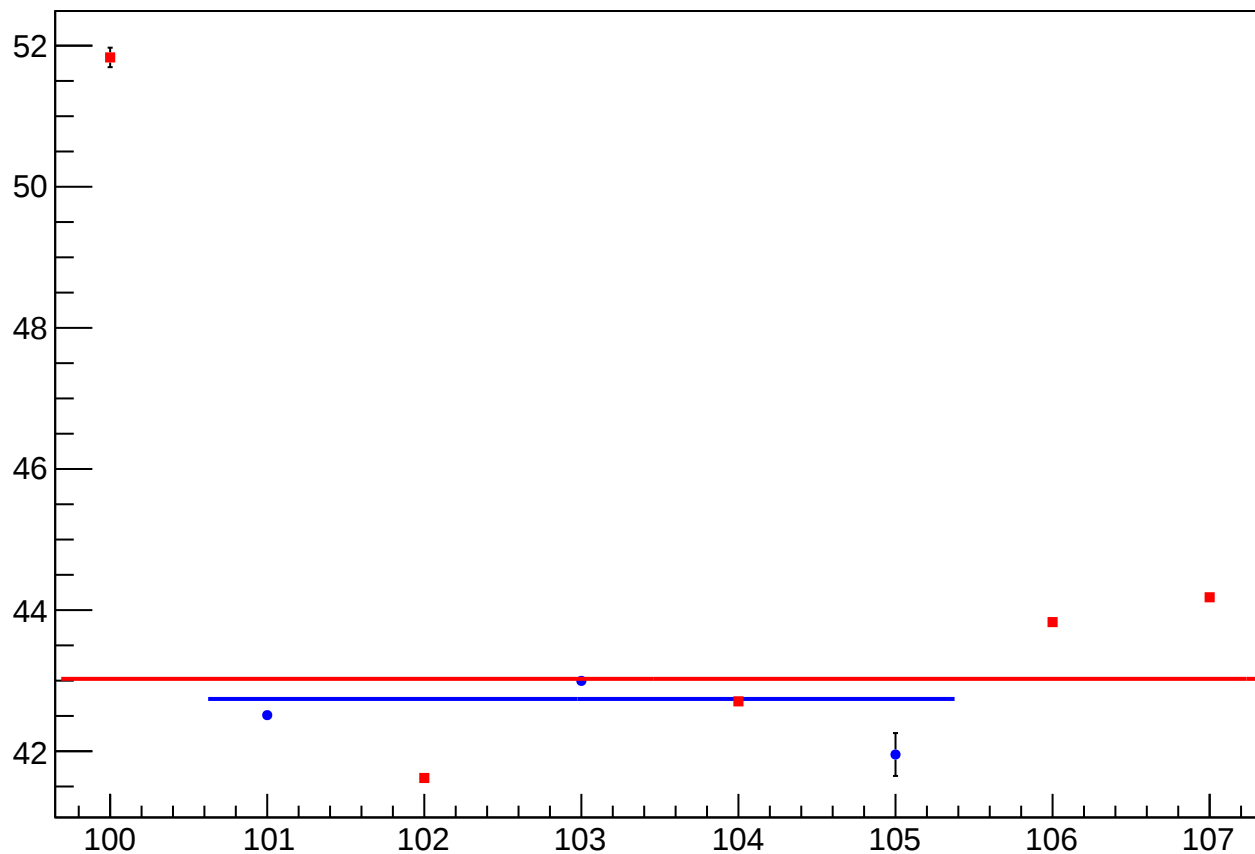
Right Out: -93.112 $\pm$ 33.352  $\chi^2$ /NDF: 6.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

101.198 $\pm$ 39.716  $\chi^2$ /NDF: 0.2/2

-93.112 $\pm$ 33.352  $\chi^2$ /NDF: 6.2/4

# reg\_asym\_sam\_15\_avg\_rms vs slug



Right In: 42.741+/-0.028  $\chi^2/\text{NDF}$ : 80.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

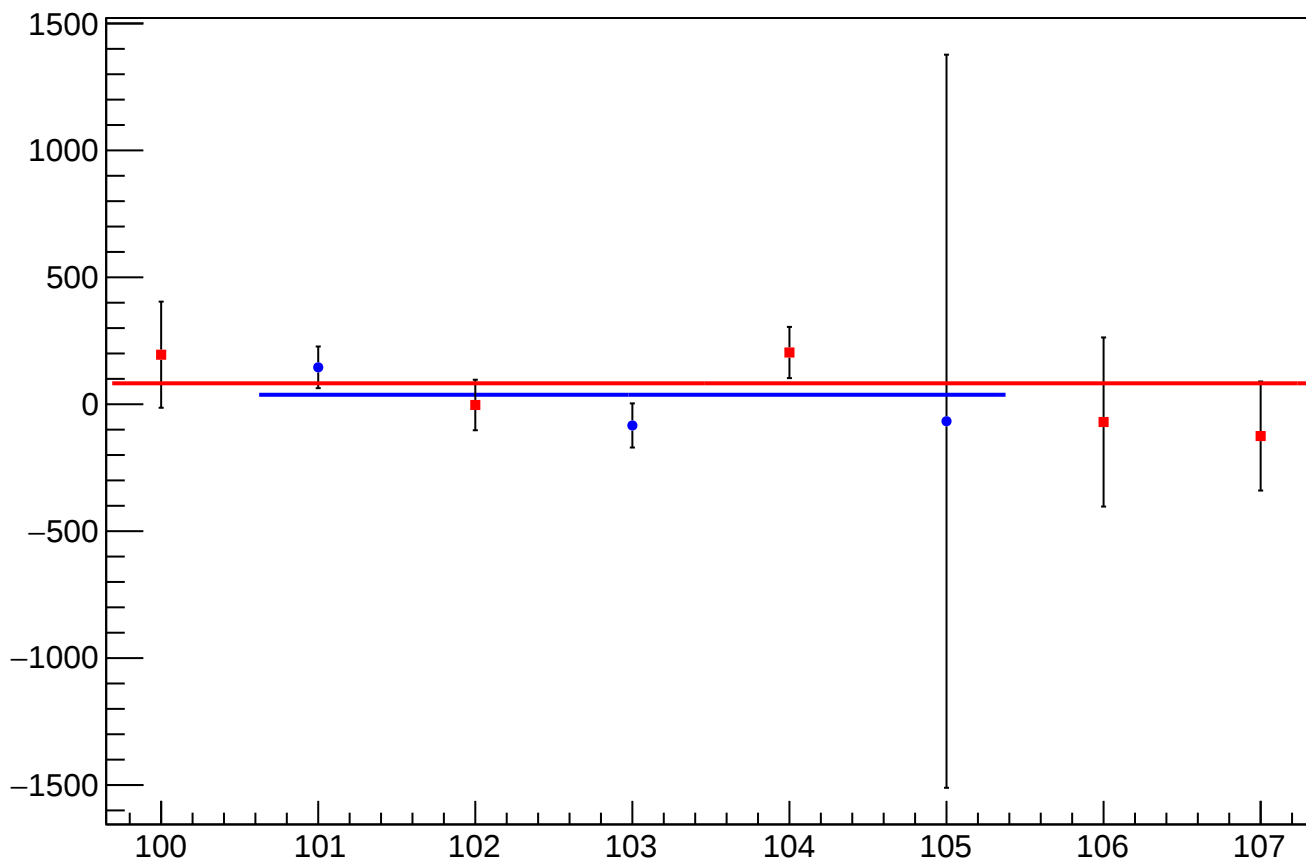
Right Out: 43.026+/-0.024  $\chi^2/\text{NDF}$ : 5989.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

42.741+/-0.028  $\chi^2/\text{NDF}$ : 80.8/2

43.026+/-0.024  $\chi^2/\text{NDF}$ : 5989.5/4

# asym\_sam\_15\_avg\_correction\_mean vs slug



Right In: 37.381+/-59.610  $\chi^2/\text{NDF}$ : 3.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

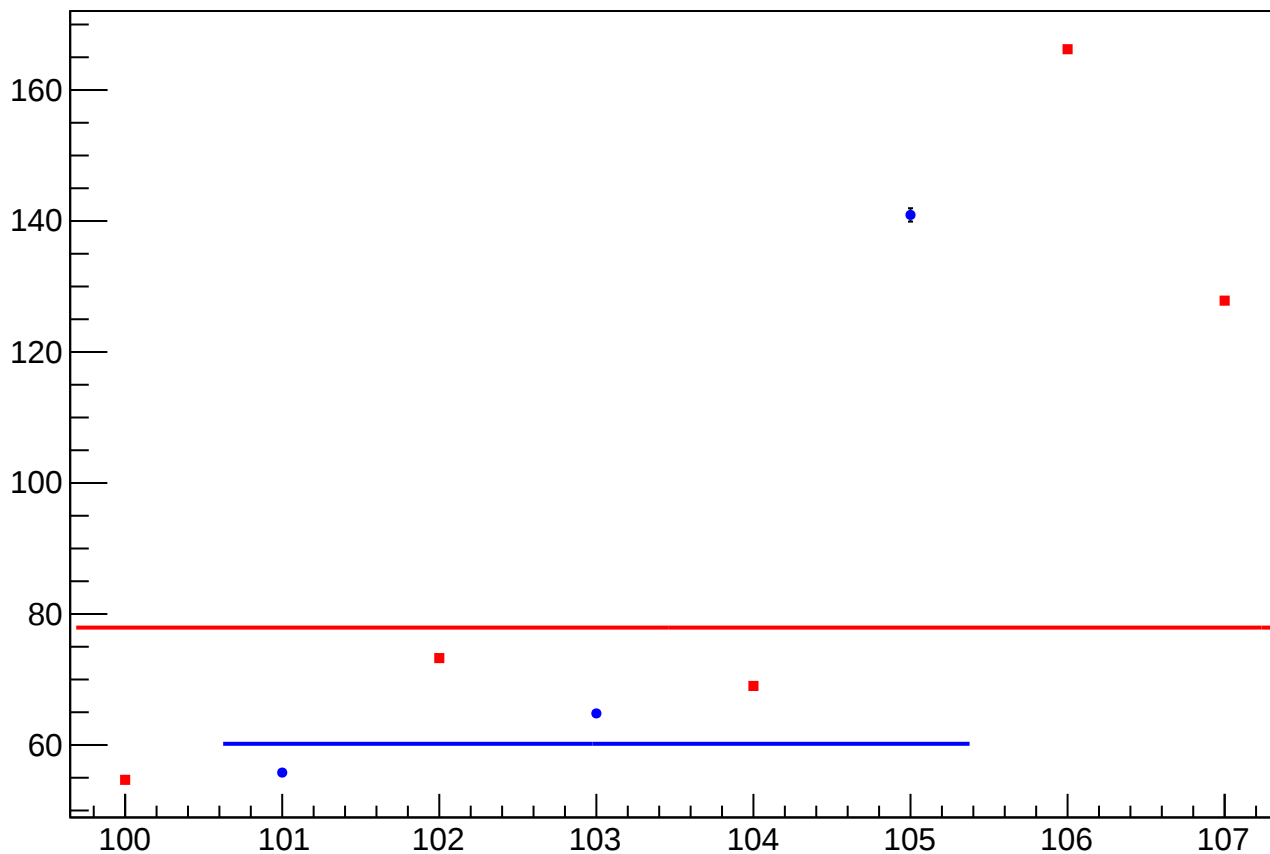
Right Out: 82.516+/-62.885  $\chi^2/\text{NDF}$ : 3.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

37.381+/-59.610  $\chi^2/\text{NDF}$ : 3.7/2

82.516+/-62.885  $\chi^2/\text{NDF}$ : 3.6/4

# asym\_sam\_15\_avg\_correction\_rms vs slug



Right In: 60.183+/-0.042  $\chi^2/\text{NDF}$ : 17688.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

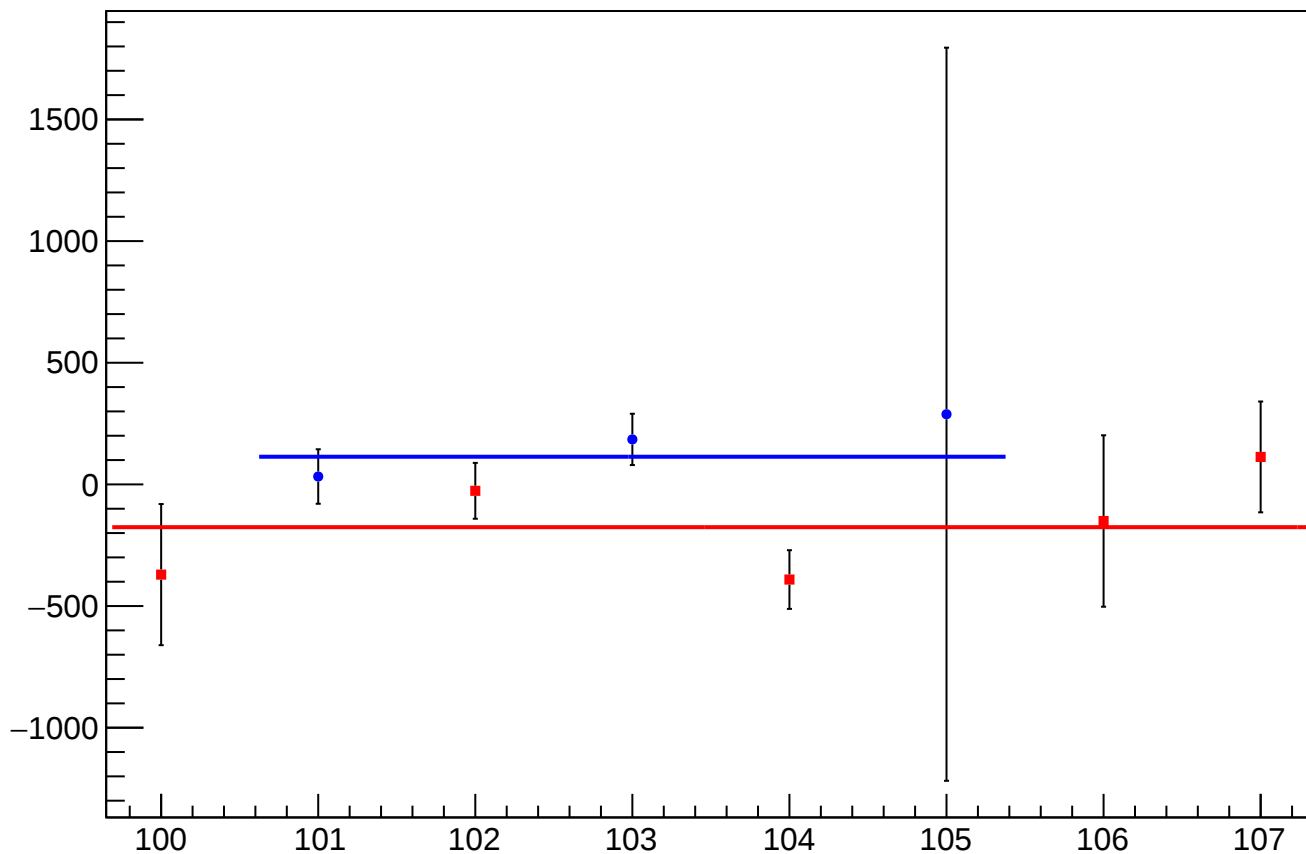
60.183+/-0.042  $\chi^2/\text{NDF}$ : 17688.5/2

Right Out: 77.925+/-0.044  $\chi^2/\text{NDF}$ : 293369.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

77.925+/-0.044  $\chi^2/\text{NDF}$ : 293369.4/4

# asym\_sam\_15\_avg\_mean vs slug



Right In: 113.719+/-76.673  $\chi^2/\text{NDF}$ : 1.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

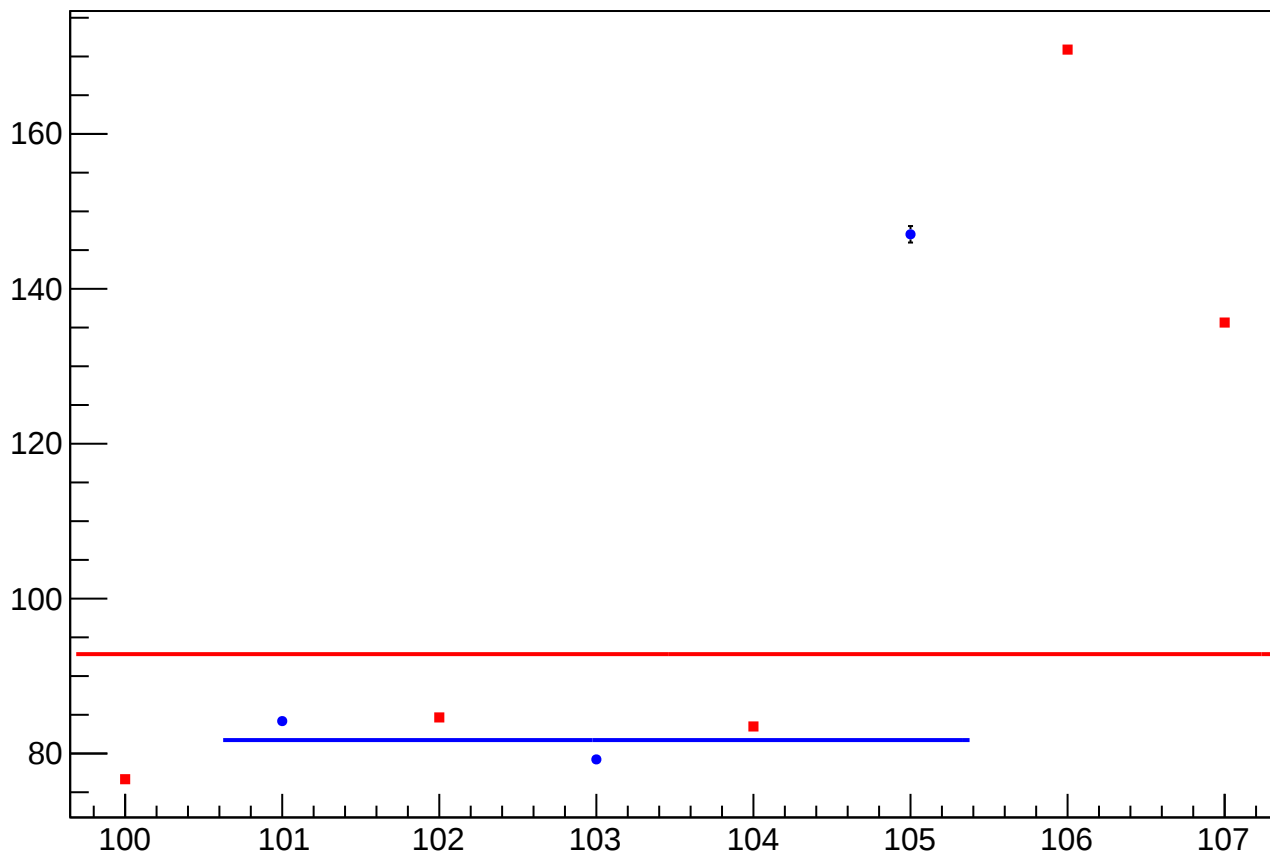
Right Out: -175.800+/-73.753  $\chi^2/\text{NDF}$ : 6.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

113.719+/-76.673  $\chi^2/\text{NDF}$ : 1.0/2

-175.800+/-73.753  $\chi^2/\text{NDF}$ : 6.9/4

# asym\_sam\_15\_avg\_rms vs slug



Right In: 81.735+/-0.054     $\chi^2/\text{NDF}$ : 5836.3/2

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

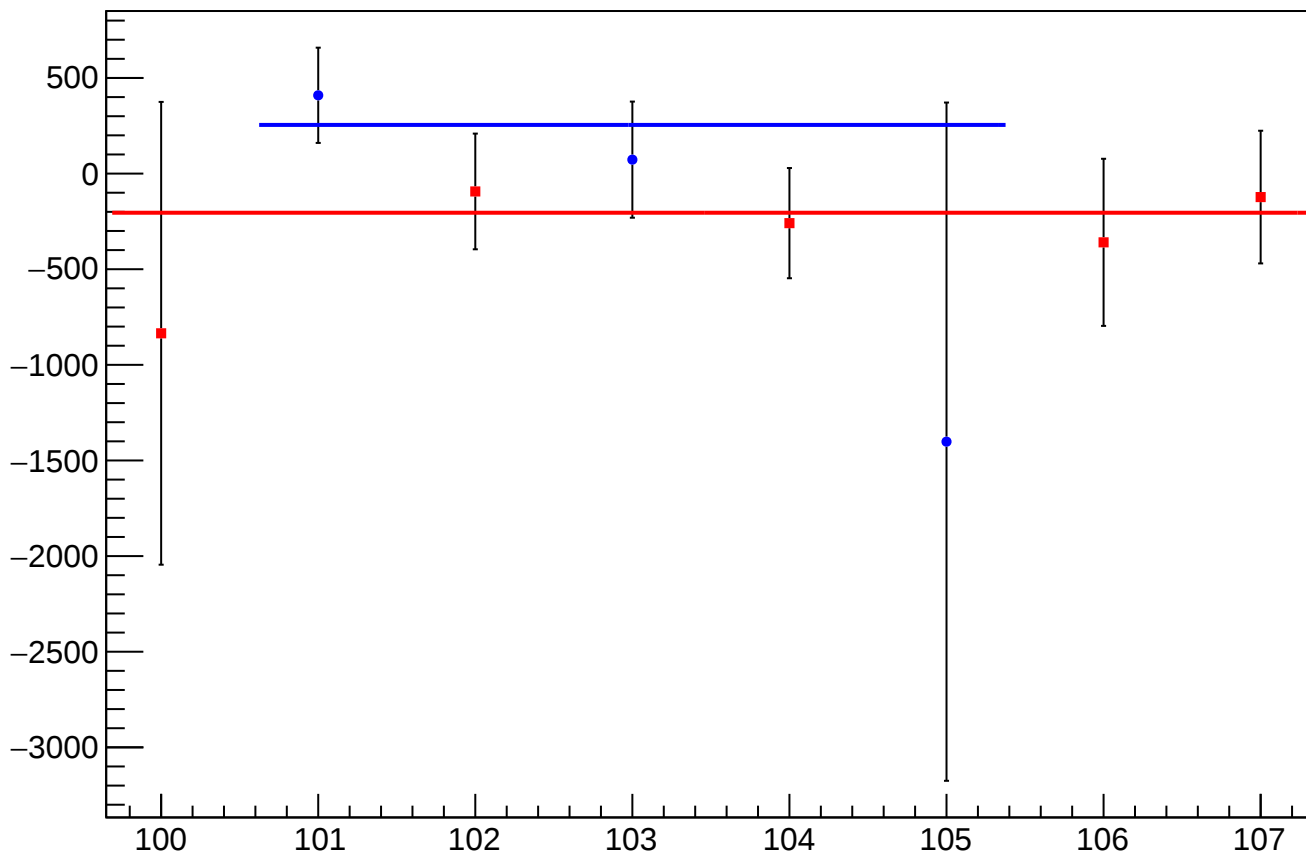
Right Out: 92.832+/-0.052     $\chi^2/\text{NDF}$ : 197177.3/4

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

81.735+/-0.054     $\chi^2/\text{NDF}$ : 5836.3/2

92.832+/-0.052     $\chi^2/\text{NDF}$ : 197177.3/4

# reg\_asym\_sam\_26\_avg\_mean vs slug



Right In: 254.522+/-191.421  $\chi^2/\text{NDF}$ : 1.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

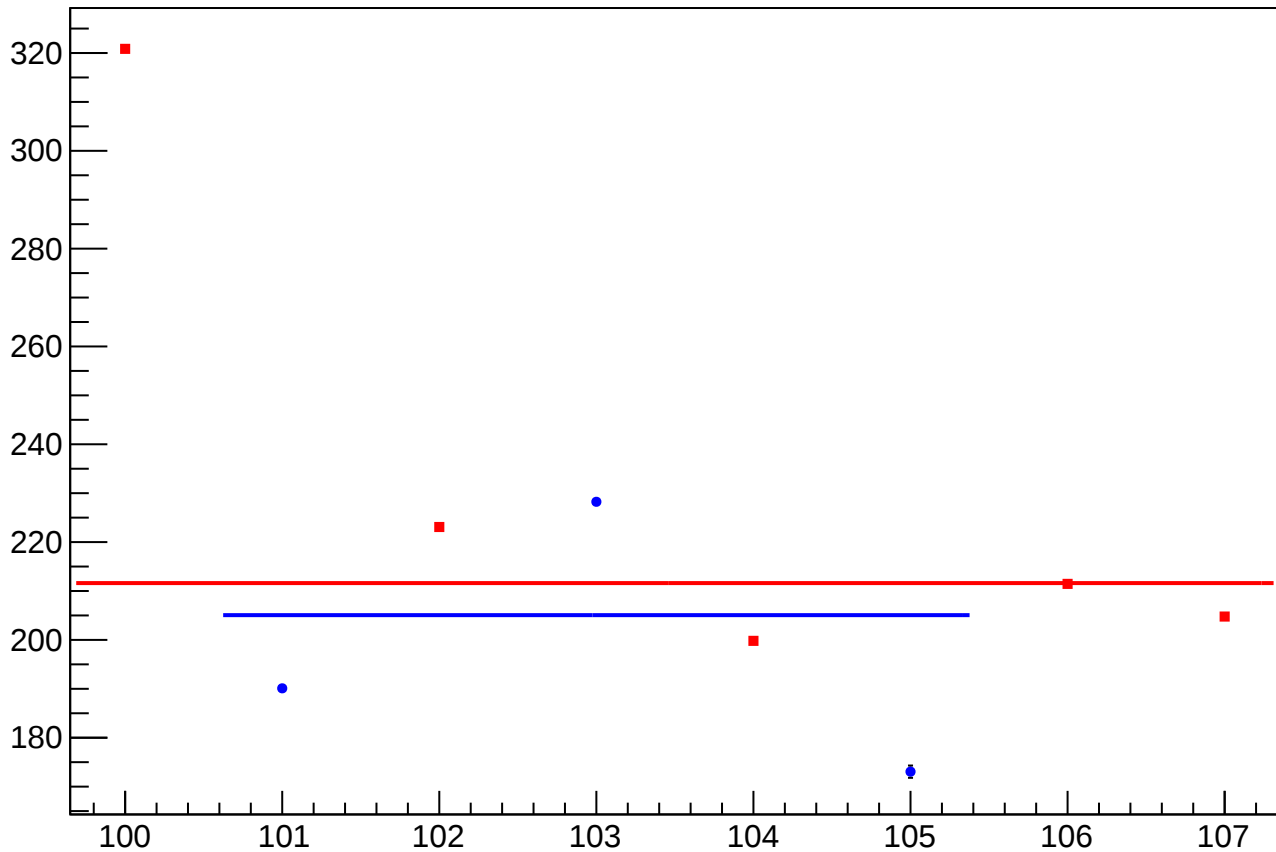
Right Out: -204.654+/-163.936  $\chi^2/\text{NDF}$ : 0.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

254.522+/-191.421  $\chi^2/\text{NDF}$ : 1.6/2

-204.654+/-163.936  $\chi^2/\text{NDF}$ : 0.6/4

# reg\_asym\_sam\_26\_avg\_rms vs slug



Right In: 205.062 $\pm$ 0.135  $\chi^2$ /NDF: 19526.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

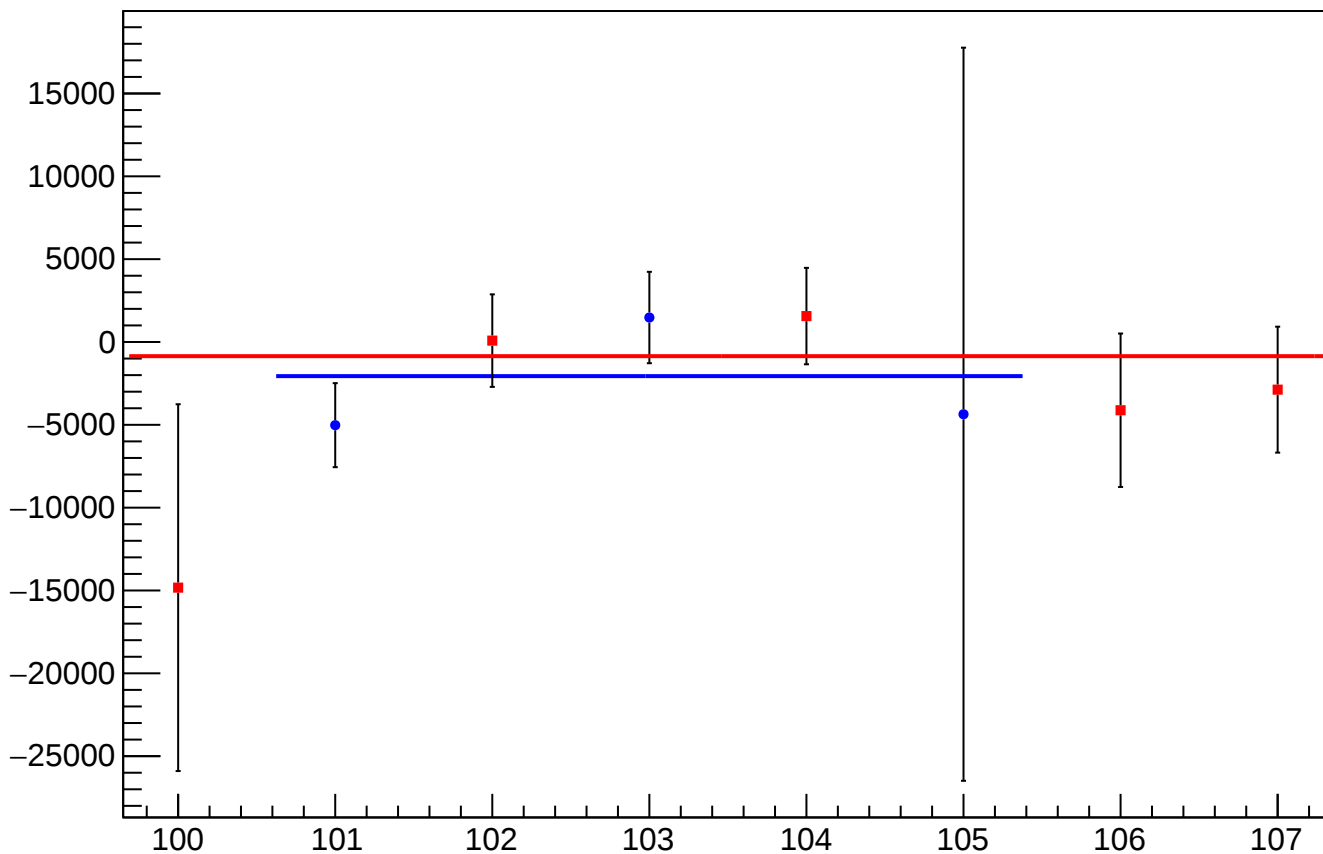
205.062 $\pm$ 0.135  $\chi^2$ /NDF: 19526.6/2

Right Out: 211.617 $\pm$ 0.116  $\chi^2$ /NDF: 23315.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

211.617 $\pm$ 0.116  $\chi^2$ /NDF: 23315.9/4

# asym\_sam\_26\_avg\_correction\_mean vs slug



Right In: -2060.472+/-1860.179  $\chi^2$ /NDF: 3.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

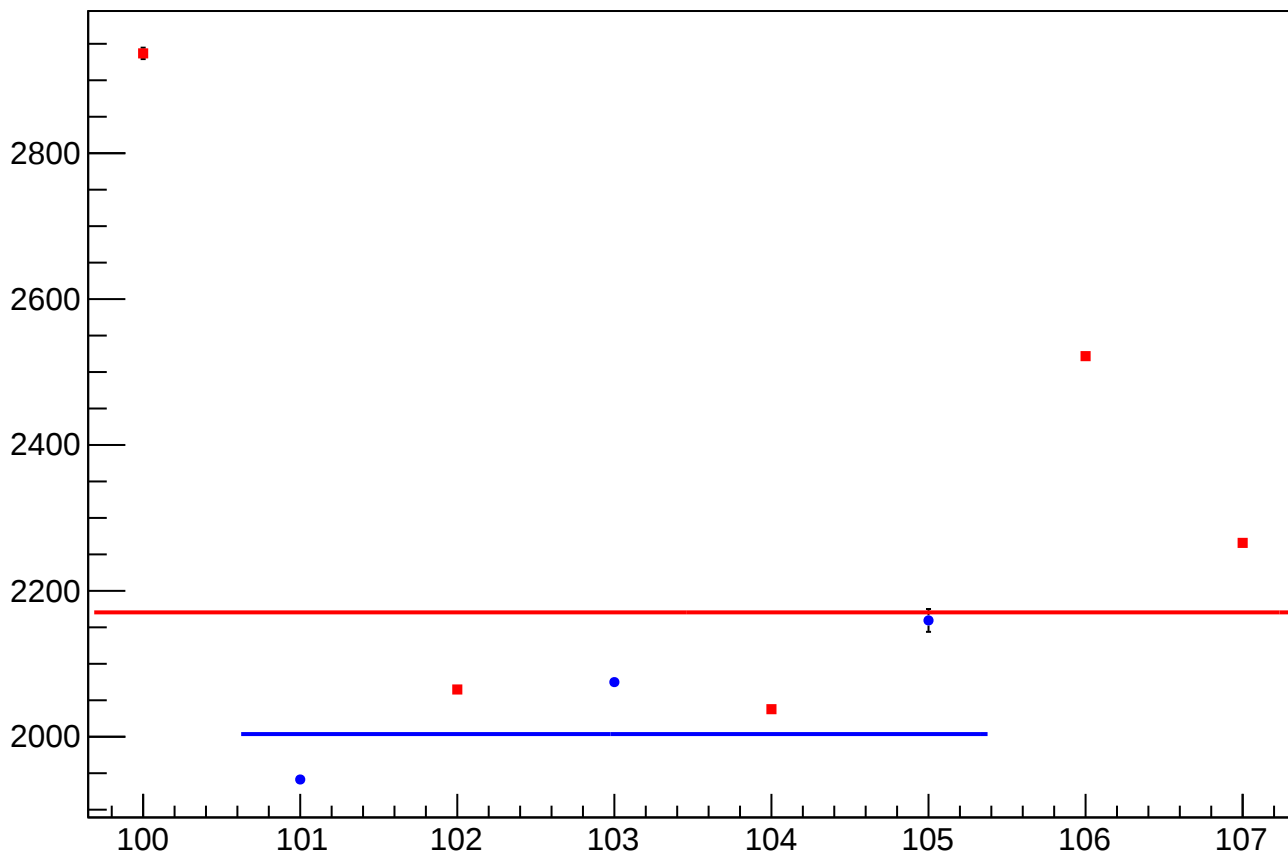
Right Out: -856.086+/-1643.396  $\chi^2$ /NDF: 3.2/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2060.472+/-1860.179  $\chi^2$ /NDF: 3.0/2

-856.086+/-1643.396  $\chi^2$ /NDF: 3.2/4

# asym\_sam\_26\_avg\_correction\_rms vs slug



Right In: 2003.664 $\pm$ 1.315  $\chi^2$ /NDF: 2639.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

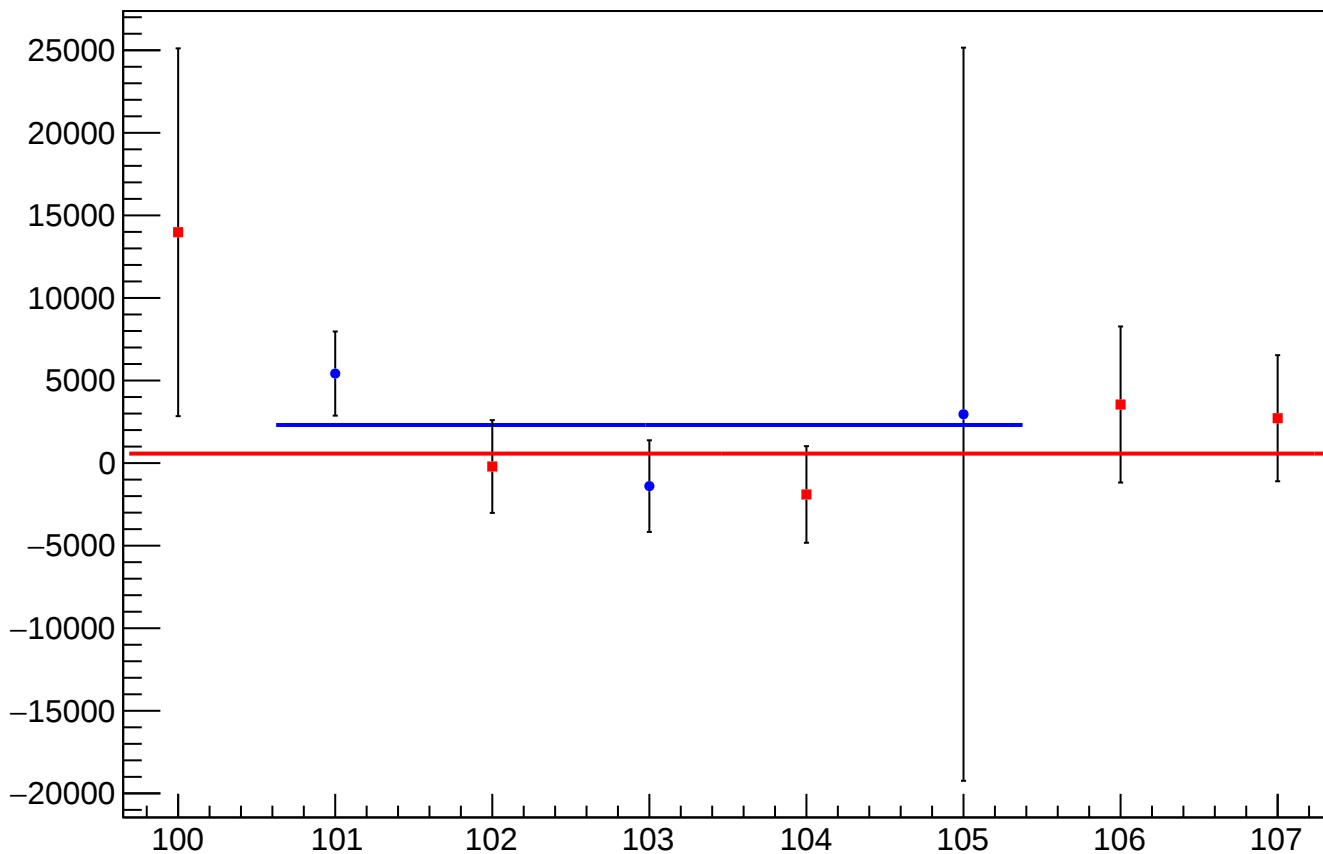
Right Out: 2170.511 $\pm$ 1.162  $\chi^2$ /NDF: 29375.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2003.664 $\pm$ 1.315  $\chi^2$ /NDF: 2639.3/2

2170.511 $\pm$ 1.162  $\chi^2$ /NDF: 29375.0/4

# asym\_sam\_26\_avg\_mean vs slug



Right In: 2308.582 $\pm$ 1870.292  $\chi^2$ /NDF: 3.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

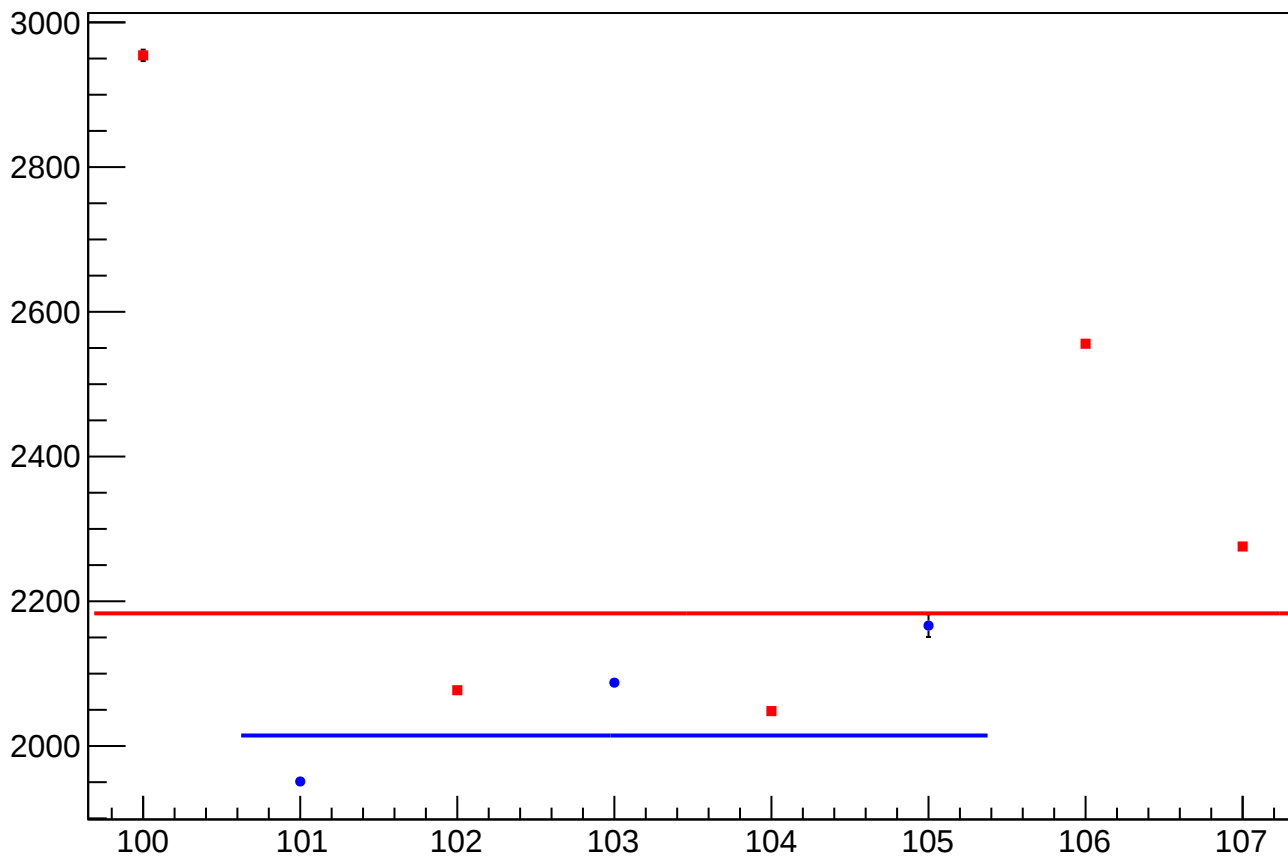
Right Out: 575.227 $\pm$ 1655.245  $\chi^2$ /NDF: 3.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2308.582 $\pm$ 1870.292  $\chi^2$ /NDF: 3.3/2

575.227 $\pm$ 1655.245  $\chi^2$ /NDF: 3.0/4

asym\_sam\_26\_avg\_rms vs slug



Right In: 2014.519+/-1.322  $\chi^2/\text{NDF}$ : 2721.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

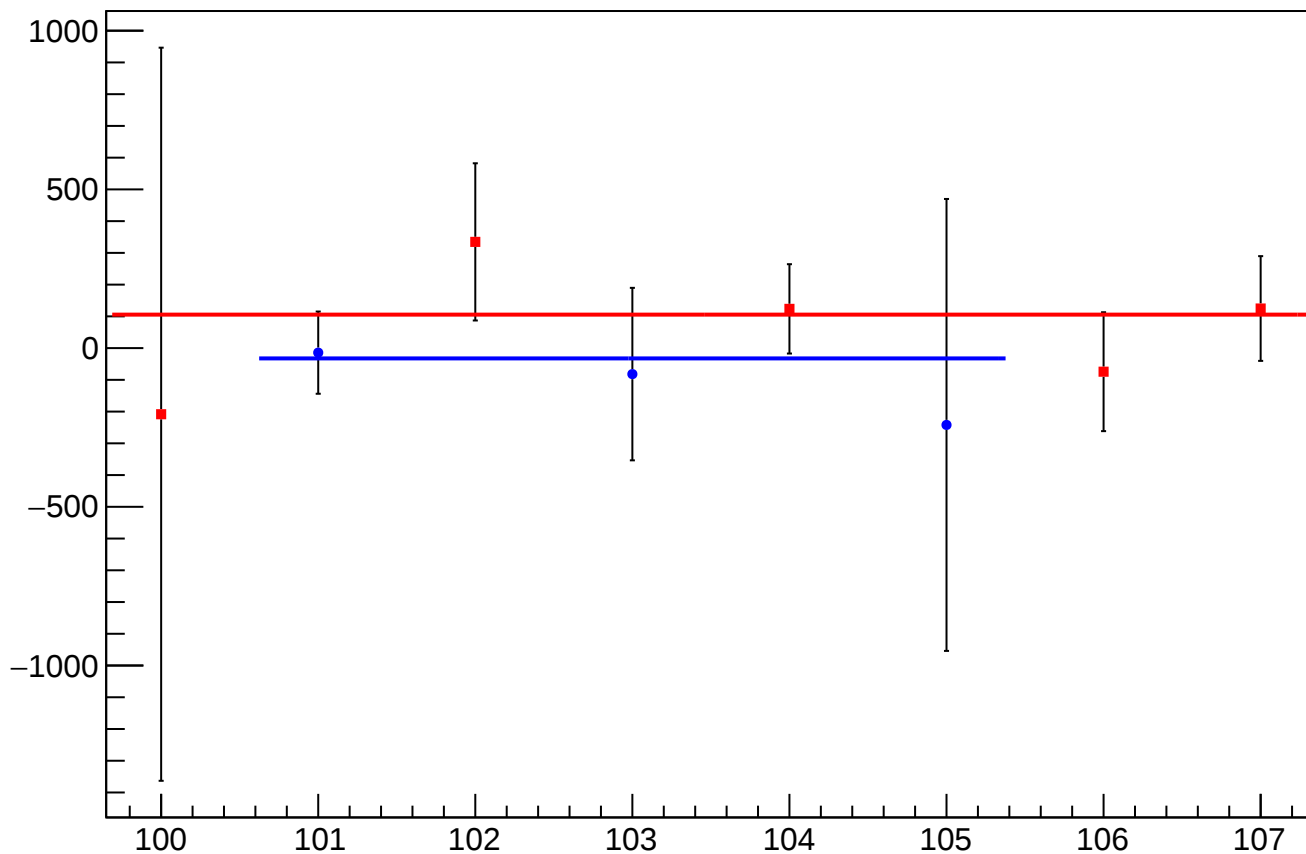
Right Out: 2183.283+/-1.170  $\chi^2/\text{NDF}$ : 30314.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2014.519+/-1.322  $\chi^2/\text{NDF}$ : 2721.7/2

2183.283+/-1.170  $\chi^2/\text{NDF}$ : 30314.1/4

# reg\_asym\_sam\_37\_avg\_mean vs slug



Right In: -32.476+/-115.351  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

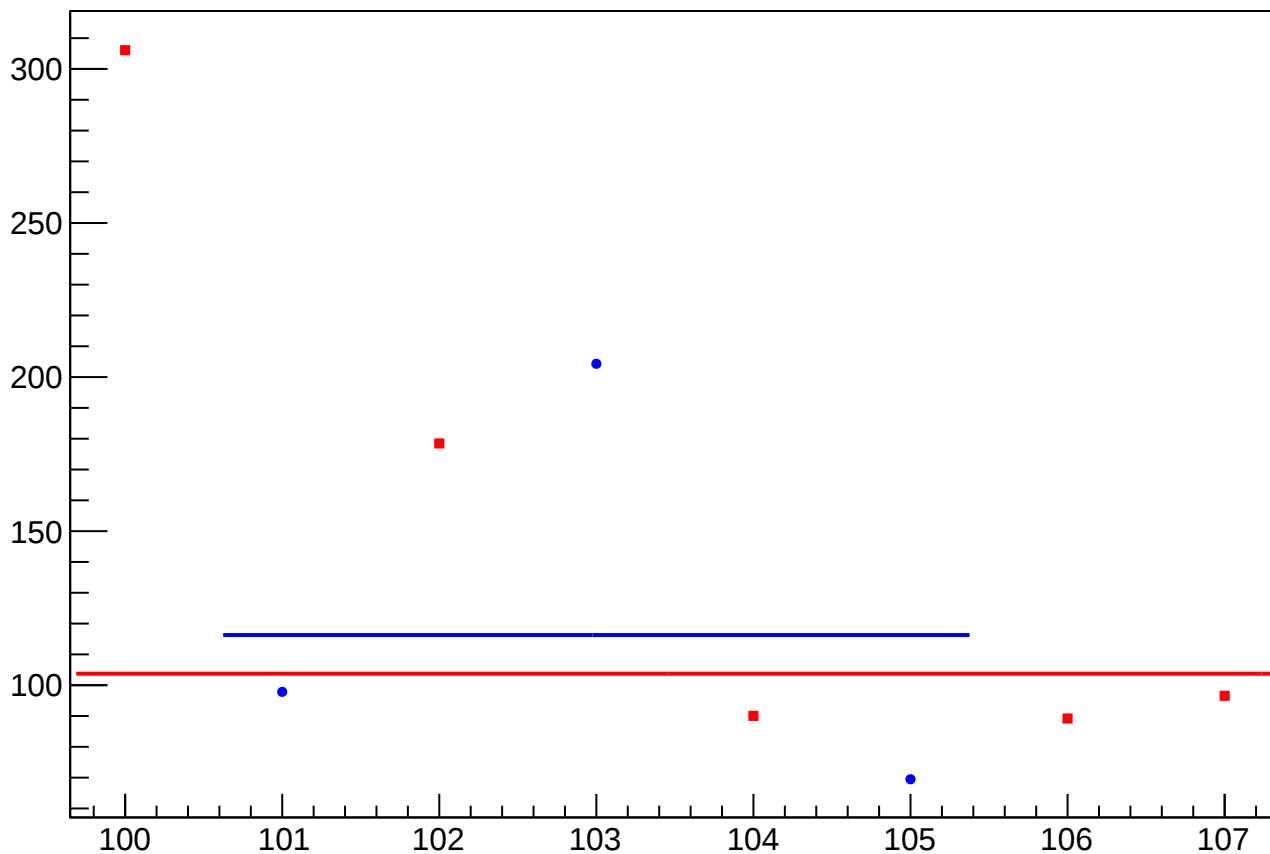
Right Out: 105.463+/-86.776  $\chi^2/\text{NDF}$ : 1.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-32.476+/-115.351  $\chi^2/\text{NDF}$ : 0.1/2

105.463+/-86.776  $\chi^2/\text{NDF}$ : 1.9/4

# reg\_asym\_sam\_37\_avg\_rms vs slug



Right In: 116.288+/-0.082  $\chi^2/\text{NDF}$ : 259126.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

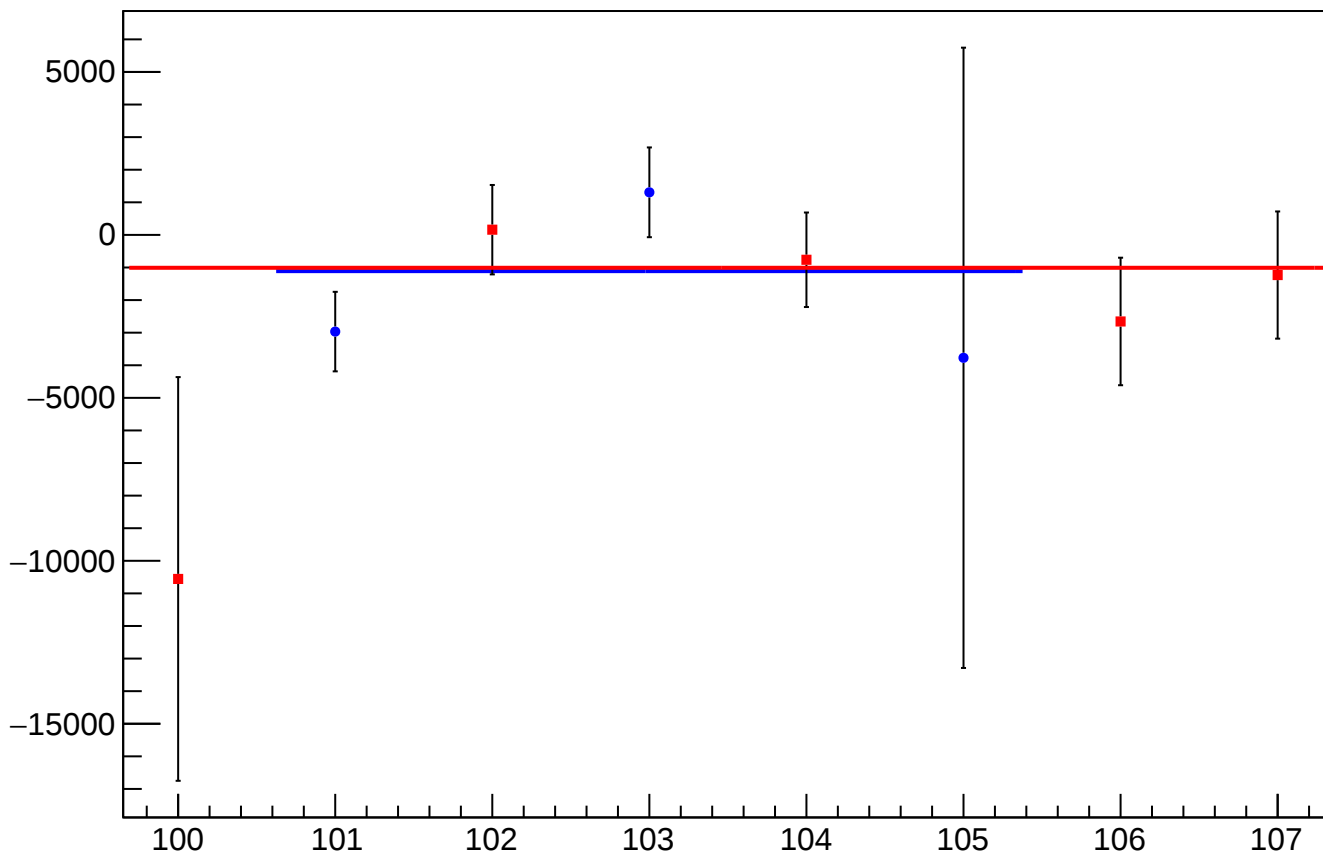
Right Out: 103.740+/-0.061  $\chi^2/\text{NDF}$ : 278268.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

116.288+/-0.082  $\chi^2/\text{NDF}$ : 259126.7/2

103.740+/-0.061  $\chi^2/\text{NDF}$ : 278268.0/4

# asym\_sam\_37\_avg\_correction\_mean vs slug



Right In: -1111.917+/-909.075  $\chi^2/\text{NDF}$ : 5.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

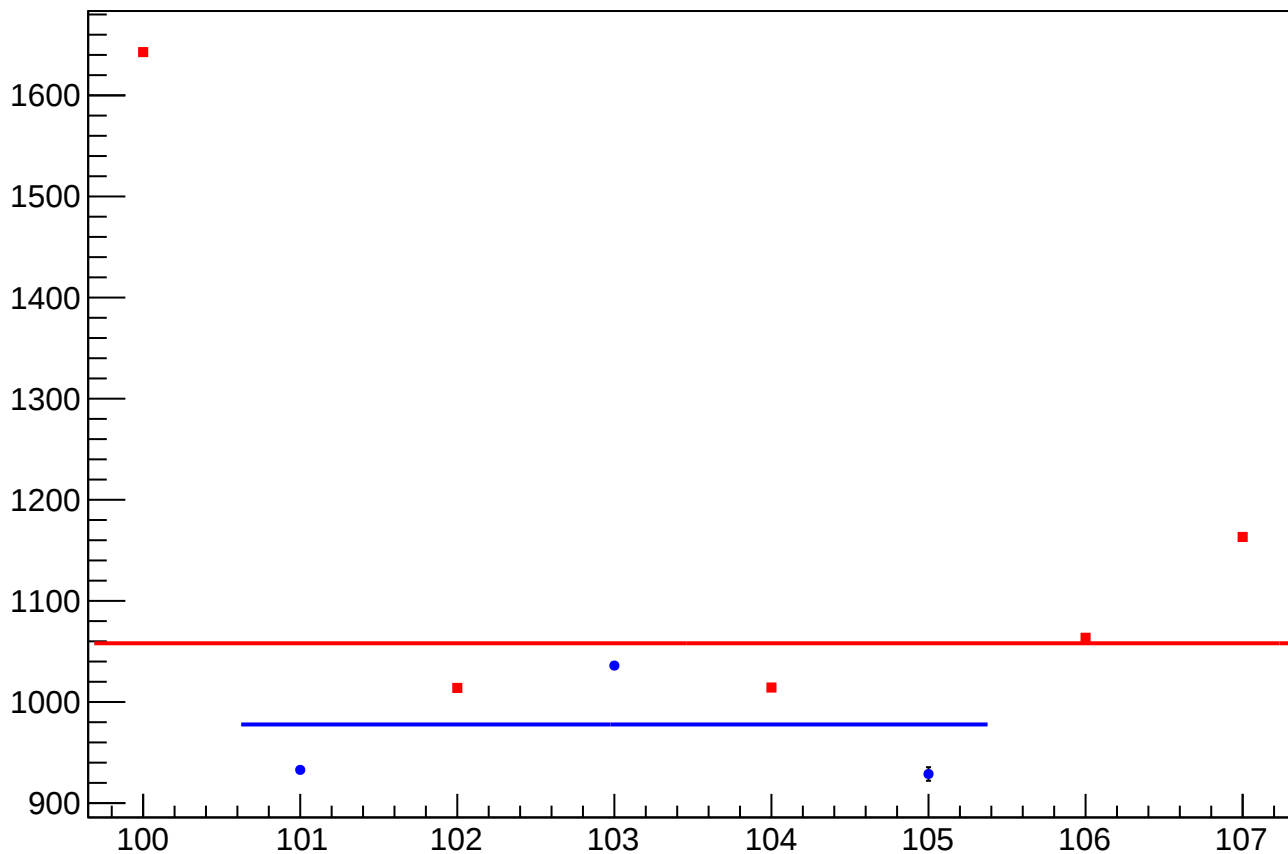
Right Out: -1008.818+/-801.488  $\chi^2/\text{NDF}$ : 3.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1111.917+/-909.075  $\chi^2/\text{NDF}$ : 5.5/2

-1008.818+/-801.488  $\chi^2/\text{NDF}$ : 3.9/4

# asym\_sam\_37\_avg\_correction\_rms vs slug



Right In: 977.775+/-0.643  $\chi^2/\text{NDF}$ : 6339.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

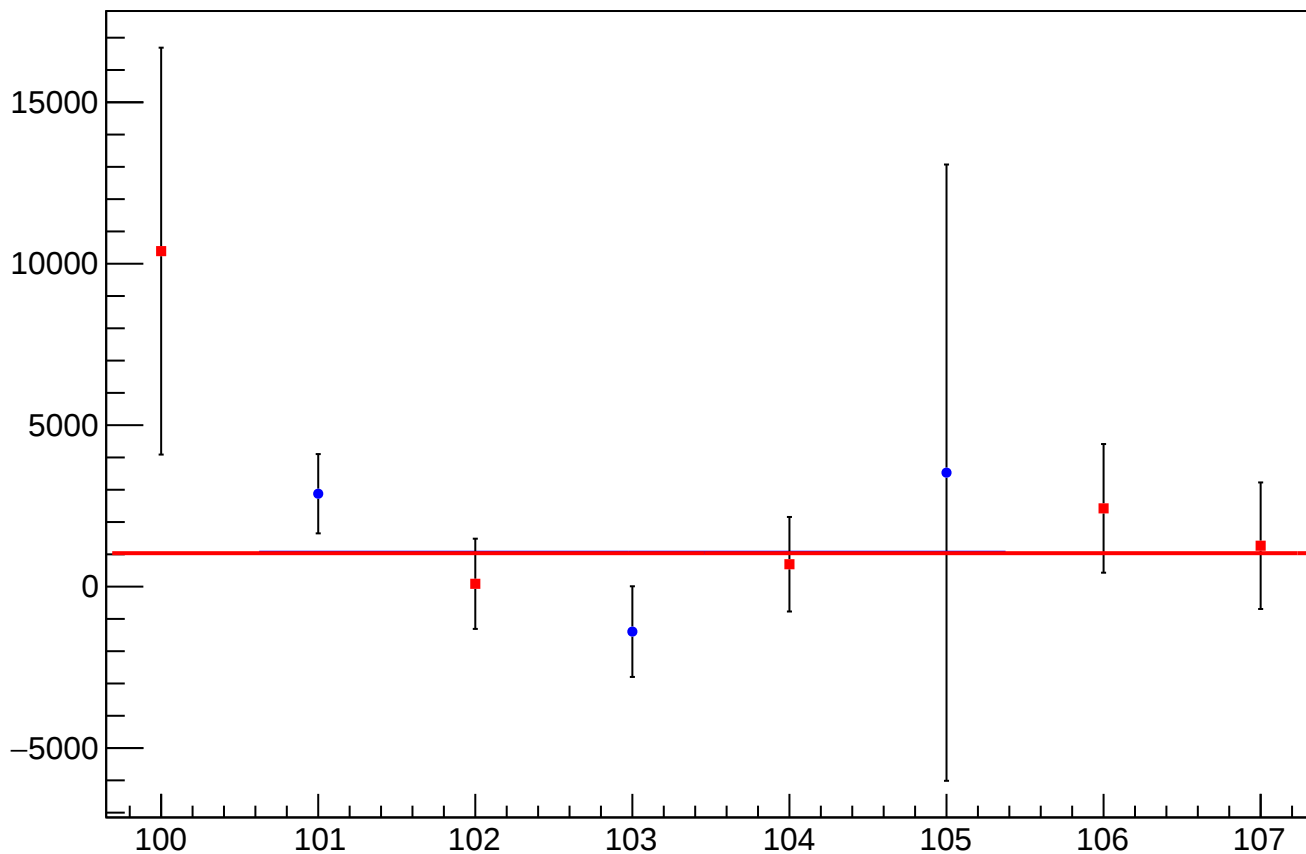
Right Out: 1058.071+/-0.567  $\chi^2/\text{NDF}$ : 27541.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

977.775+/-0.643  $\chi^2/\text{NDF}$ : 6339.2/2

1058.071+/-0.567  $\chi^2/\text{NDF}$ : 27541.9/4

# asym\_sam\_37\_avg\_mean vs slug



Right In: 1049.504 $\pm$ 919.923  $\chi^2$ /NDF: 5.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

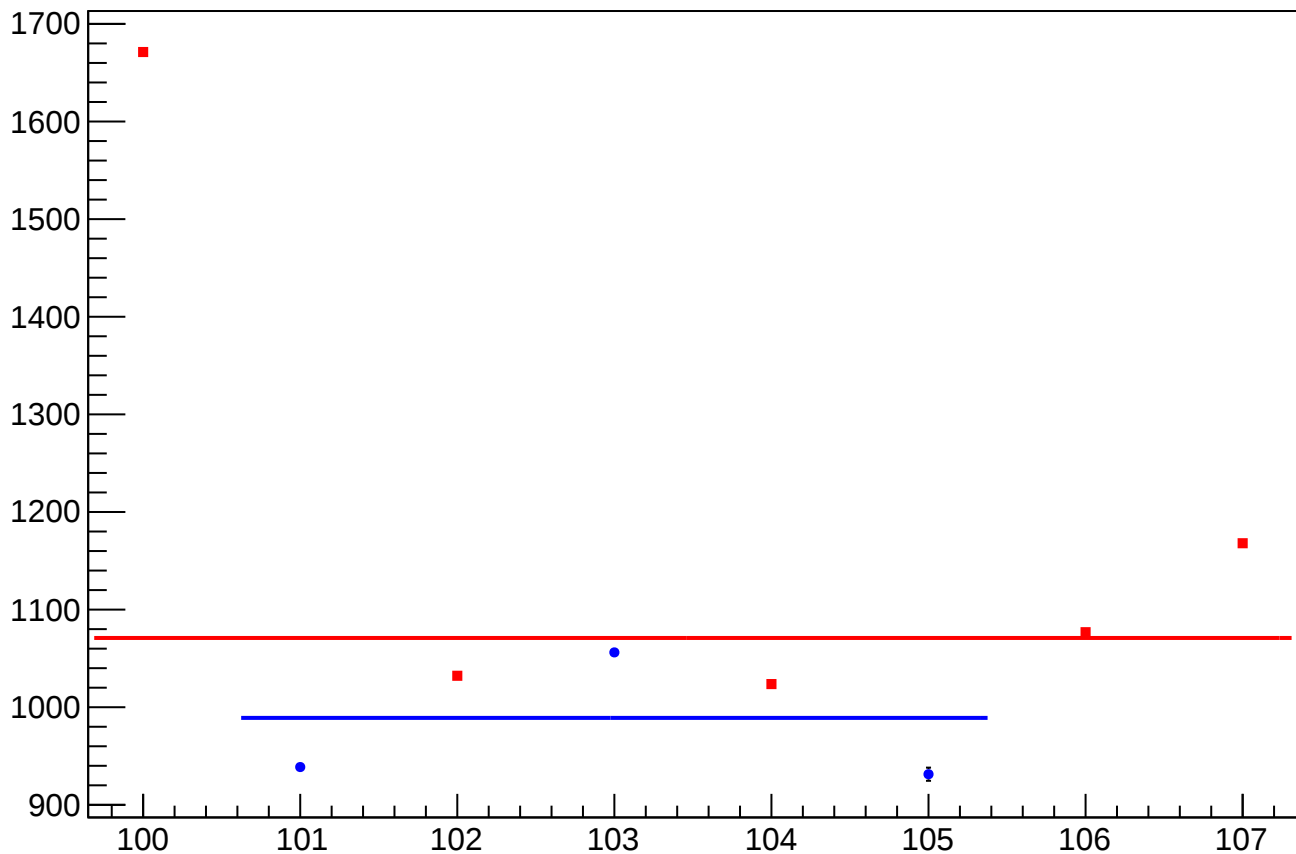
Right Out: 1035.476 $\pm$ 812.062  $\chi^2$ /NDF: 3.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1049.504 $\pm$ 919.923  $\chi^2$ /NDF: 5.3/2

1035.476 $\pm$ 812.062  $\chi^2$ /NDF: 3.2/4

asym\_sam\_37\_avg\_rms vs slug



Right In: 989.079+/-0.650  $\chi^2/\text{NDF}$ : 8004.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

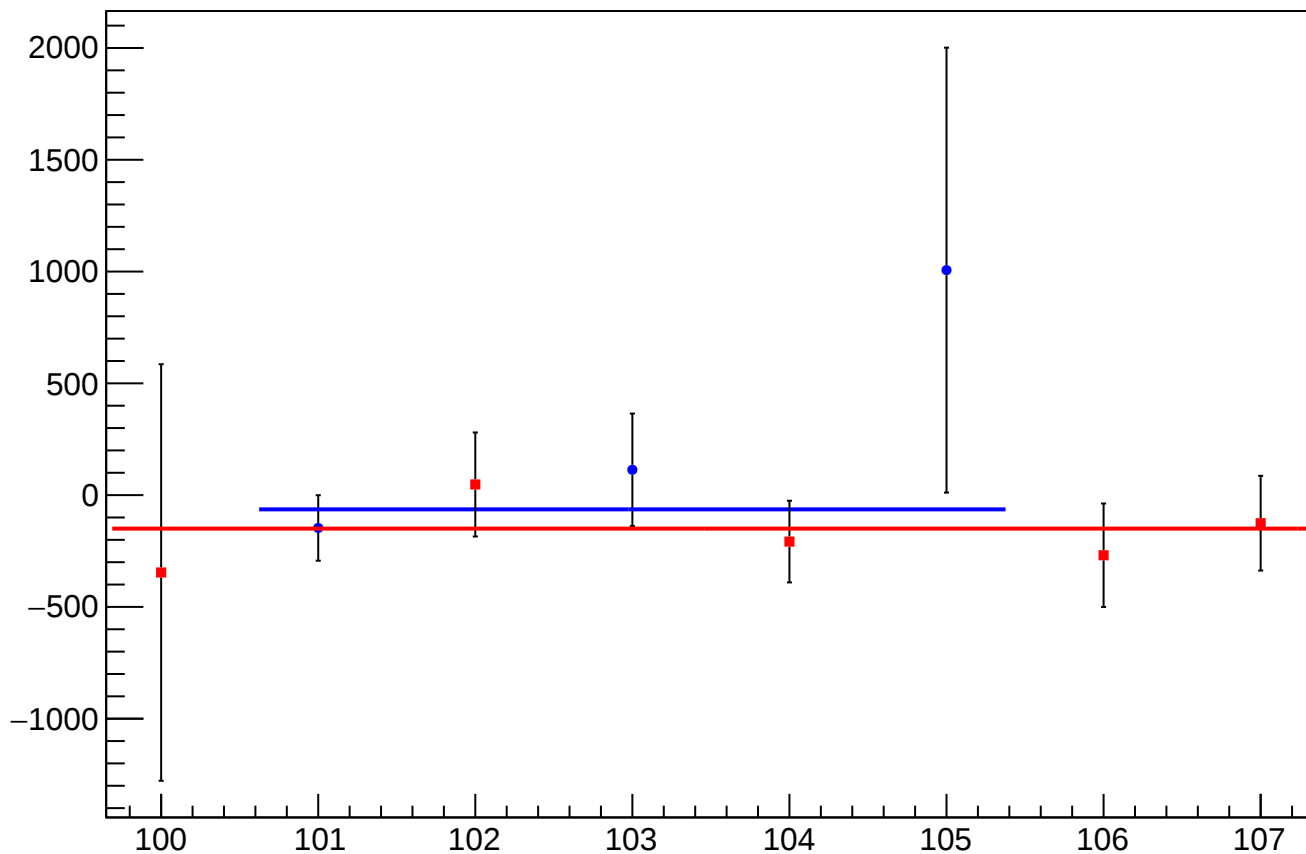
Right Out: 1070.951+/-0.574  $\chi^2/\text{NDF}$ : 26691.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

989.079+/-0.650  $\chi^2/\text{NDF}$ : 8004.6/2

1070.951+/-0.574  $\chi^2/\text{NDF}$ : 26691.1/4

reg\_asym\_sam\_48\_avg\_mean vs slug



Right In: -63.648 $\pm$ 125.578  $\chi^2$ /NDF: 2.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

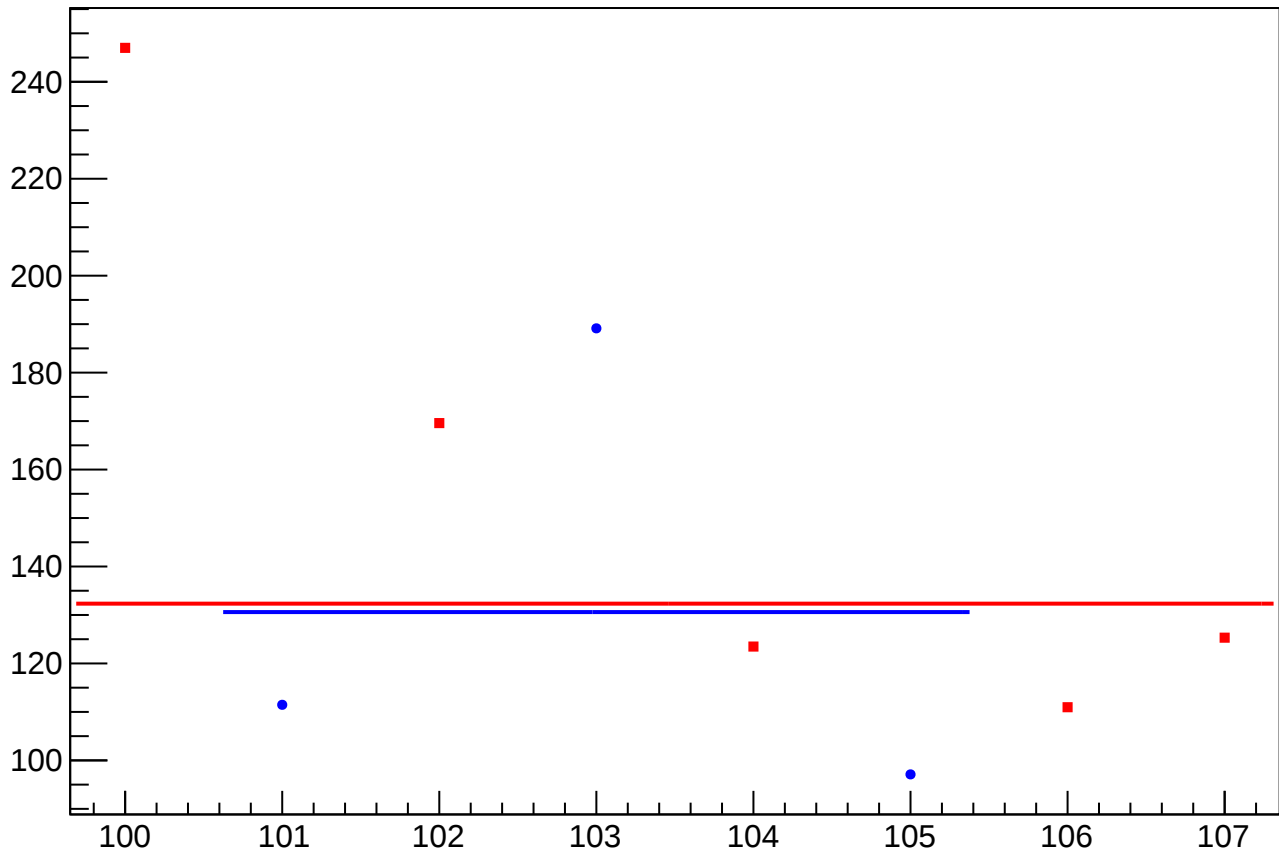
Right Out: -149.796 $\pm$ 105.100  $\chi^2$ /NDF: 1.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-63.648 $\pm$ 125.578  $\chi^2$ /NDF: 2.0/2

-149.796 $\pm$ 105.100  $\chi^2$ /NDF: 1.1/4

# reg\_asym\_sam\_48\_avg\_rms vs slug



Right In: 130.598 $\pm$ 0.089  $\chi^2$ /NDF: 144689.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

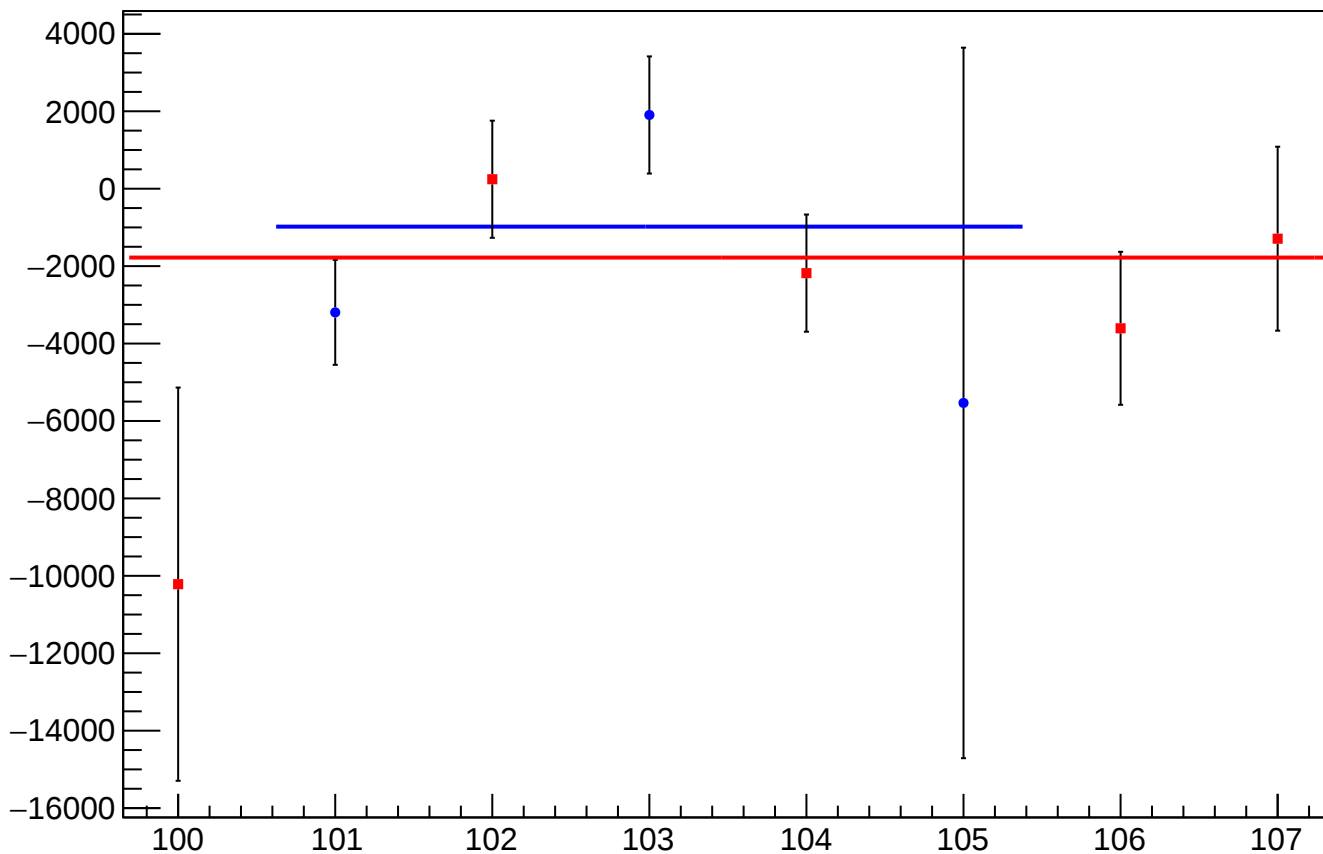
130.598 $\pm$ 0.089  $\chi^2$ /NDF: 144689.1/2

Right Out: 132.336 $\pm$ 0.074  $\chi^2$ /NDF: 105492.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

132.336 $\pm$ 0.074  $\chi^2$ /NDF: 105492.5/4

asym\_sam\_48\_avg\_correction\_mean vs slug



Right In: -979.759+/-1003.425  $\chi^2/\text{NDF}$ : 6.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

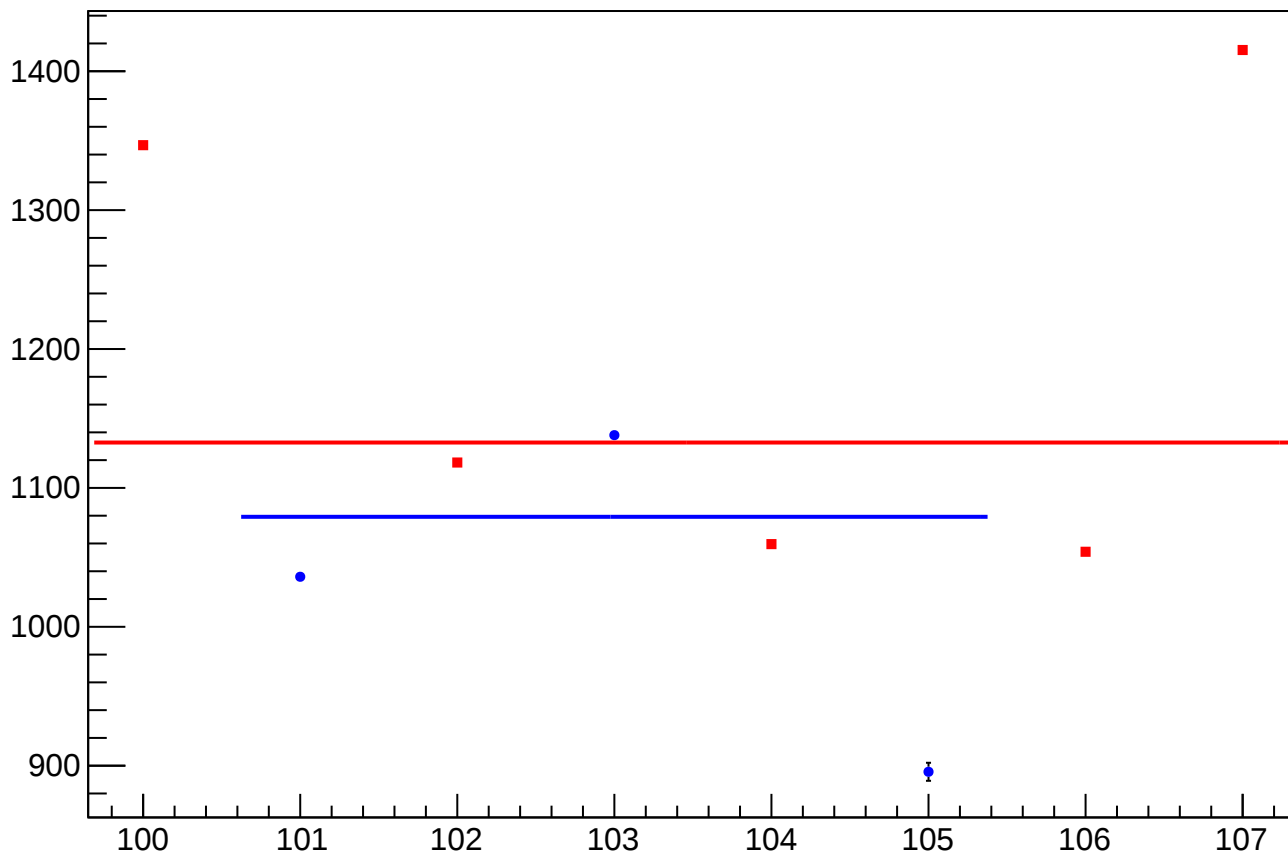
Right Out: -1779.023+/-862.114  $\chi^2/\text{NDF}$ : 5.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-979.759+/-1003.425  $\chi^2/\text{NDF}$ : 6.6/2

-1779.023+/-862.114  $\chi^2/\text{NDF}$ : 5.5/4

asym\_sam\_48\_avg\_correction\_rms vs slug



Right In: 1079.201+/-0.710  $\chi^2/\text{NDF}$ : 5849.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

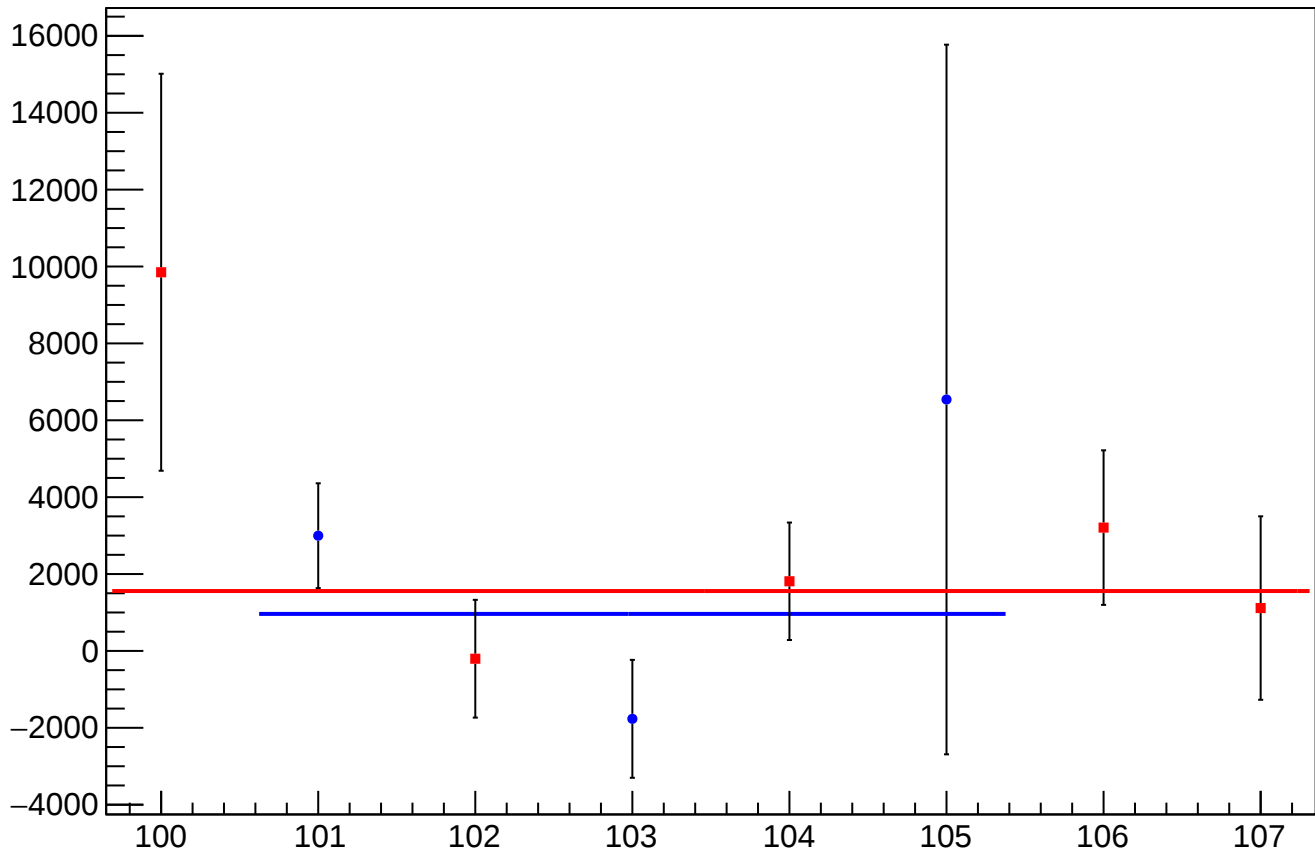
Right Out: 1132.678+/-0.610  $\chi^2/\text{NDF}$ : 39865.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1079.201+/-0.710  $\chi^2/\text{NDF}$ : 5849.6/2

1132.678+/-0.610  $\chi^2/\text{NDF}$ : 39865.3/4

# asym\_sam\_48\_avg\_mean vs slug



Right In: 962.896+/-1012.859  $\chi^2/\text{NDF}$ : 5.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

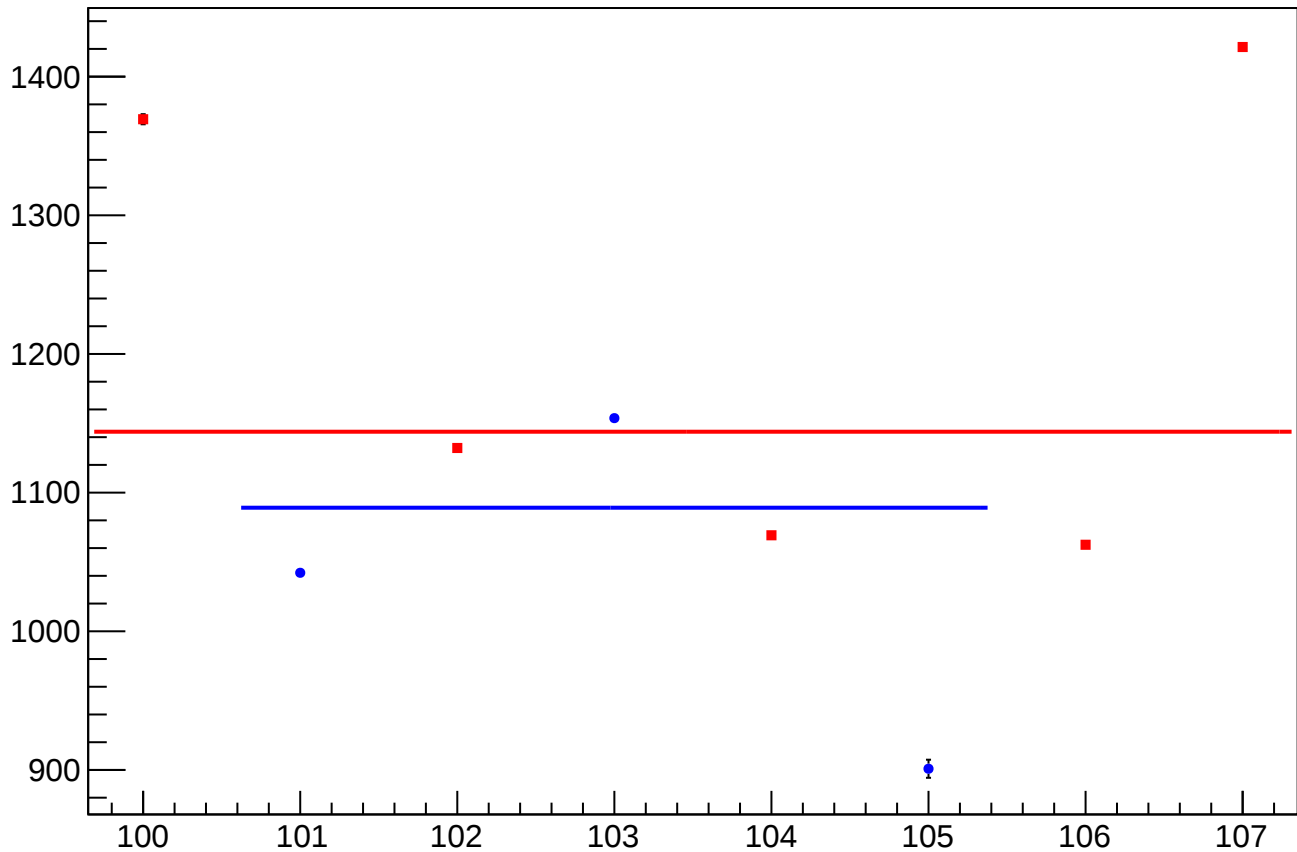
Right Out: 1557.835+/-871.948  $\chi^2/\text{NDF}$ : 4.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

962.896+/-1012.859  $\chi^2/\text{NDF}$ : 5.8/2

1557.835+/-871.948  $\chi^2/\text{NDF}$ : 4.6/4

# asym\_sam\_48\_avg\_rms vs slug



Right In: 1089.126+/-0.716  $\chi^2/\text{NDF}$ : 6749.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

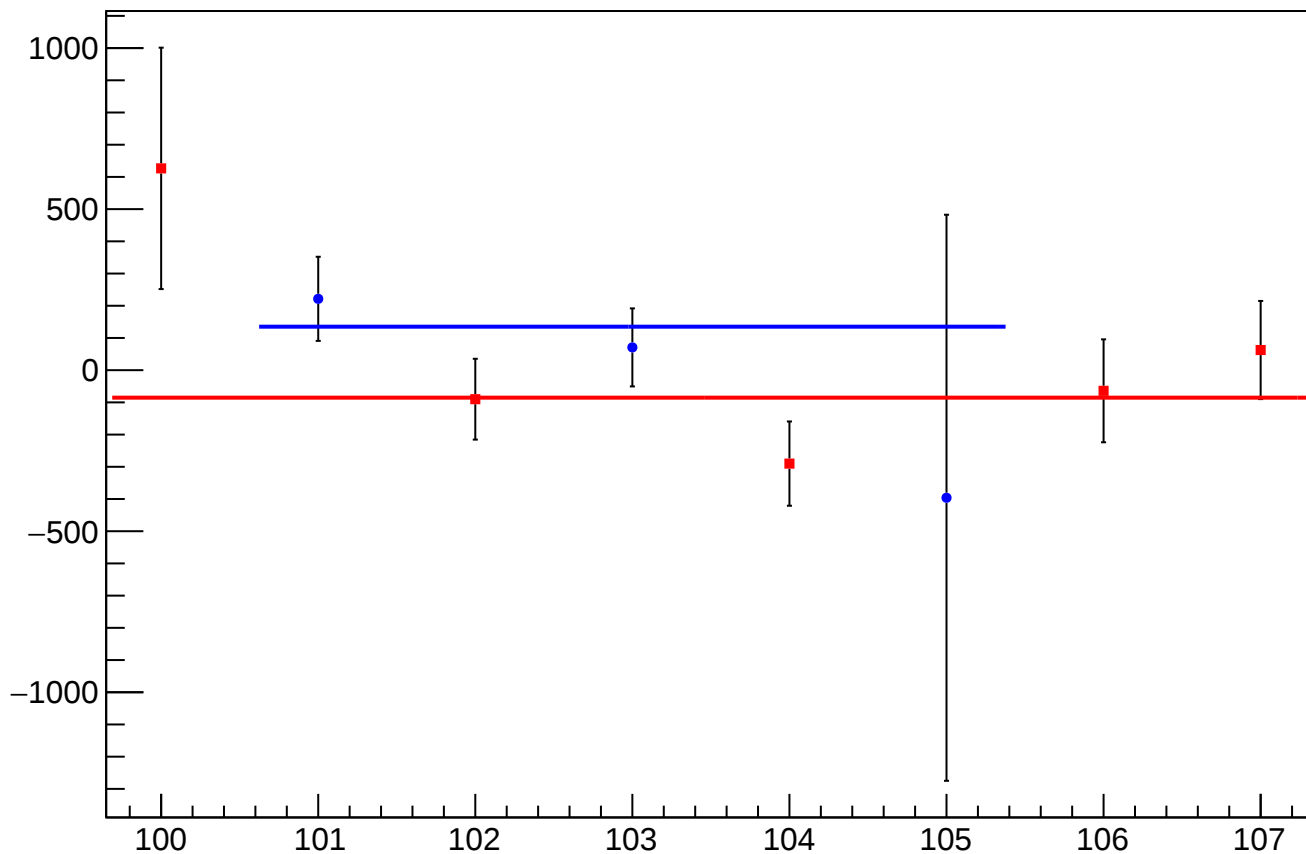
Right Out: 1143.930+/-0.617  $\chi^2/\text{NDF}$ : 39032.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1089.126+/-0.716  $\chi^2/\text{NDF}$ : 6749.0/2

1143.930+/-0.617  $\chi^2/\text{NDF}$ : 39032.5/4

# reg\_asym\_sam\_15\_dd\_mean vs slug



Right In: 135.032+/-88.359  $\chi^2/\text{NDF}$ : 1.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

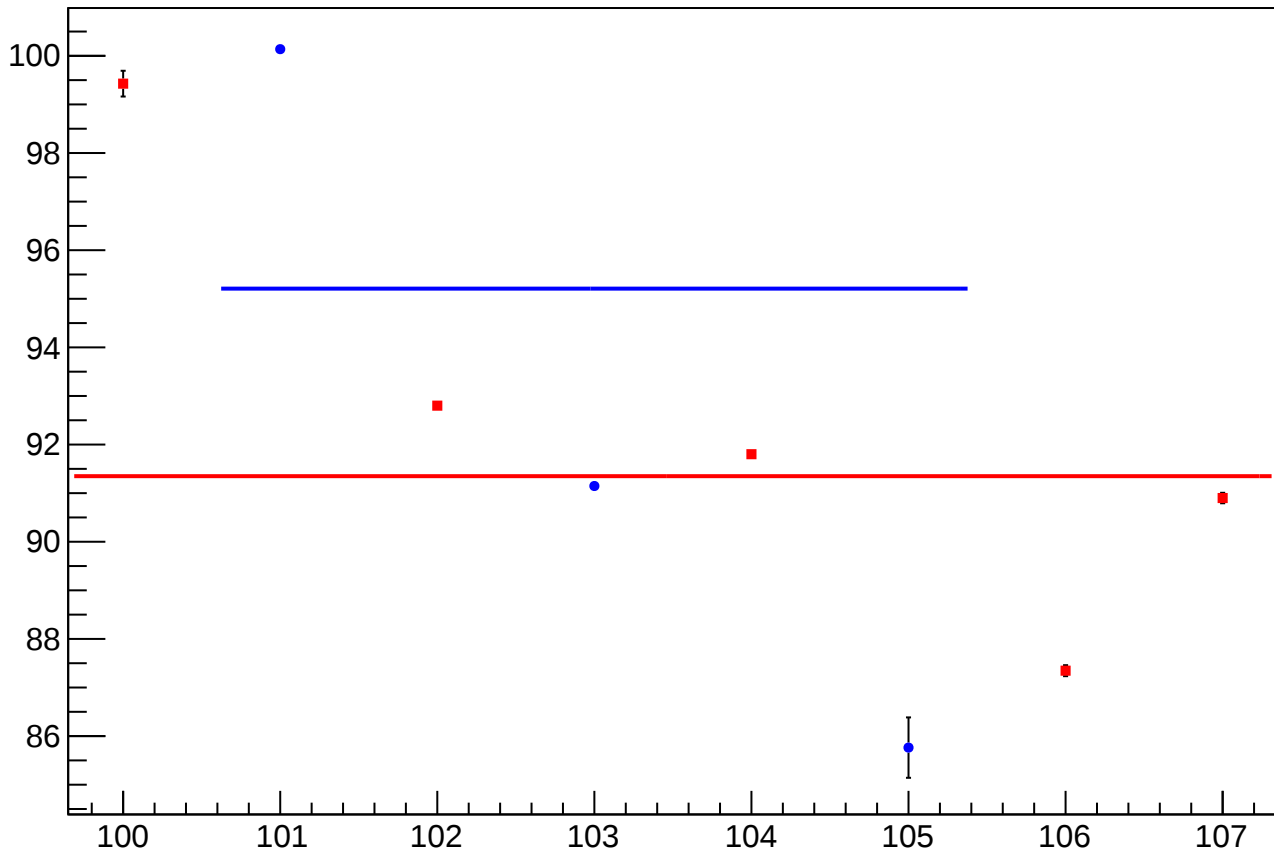
Right Out: -85.319+/-68.792  $\chi^2/\text{NDF}$ : 7.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

135.032+/-88.359  $\chi^2/\text{NDF}$ : 1.1/2

-85.319+/-68.792  $\chi^2/\text{NDF}$ : 7.0/4

# reg\_asym\_sam\_15\_dd\_rms vs slug



Right In: 95.209+/-0.062  $\chi^2/\text{NDF}$ : 5328.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

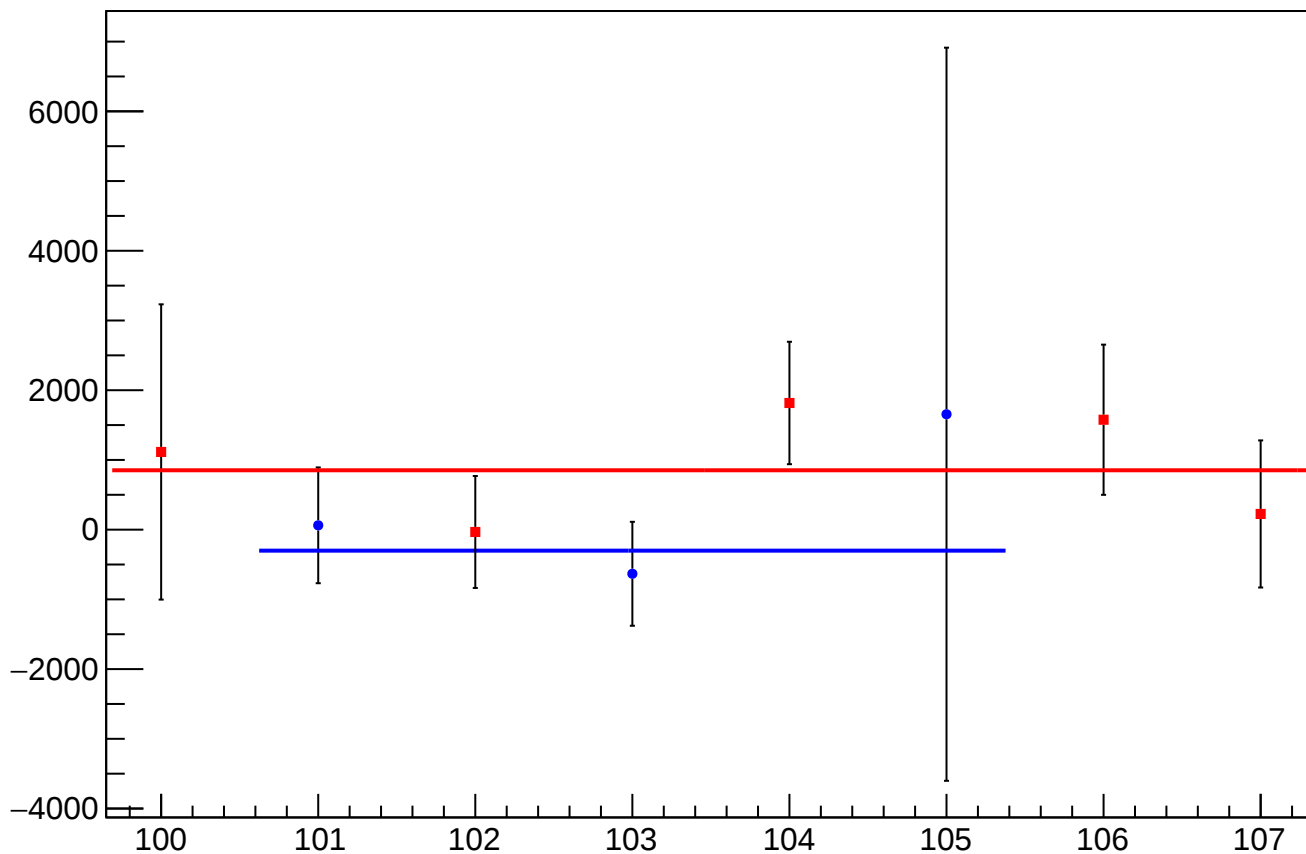
Right Out: 91.349+/-0.049  $\chi^2/\text{NDF}$ : 2493.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

95.209+/-0.062  $\chi^2/\text{NDF}$ : 5328.5/2

91.349+/-0.049  $\chi^2/\text{NDF}$ : 2493.1/4

# asym\_sam\_15\_dd\_correction\_mean vs slug



Right In: -301.046+/-551.617  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

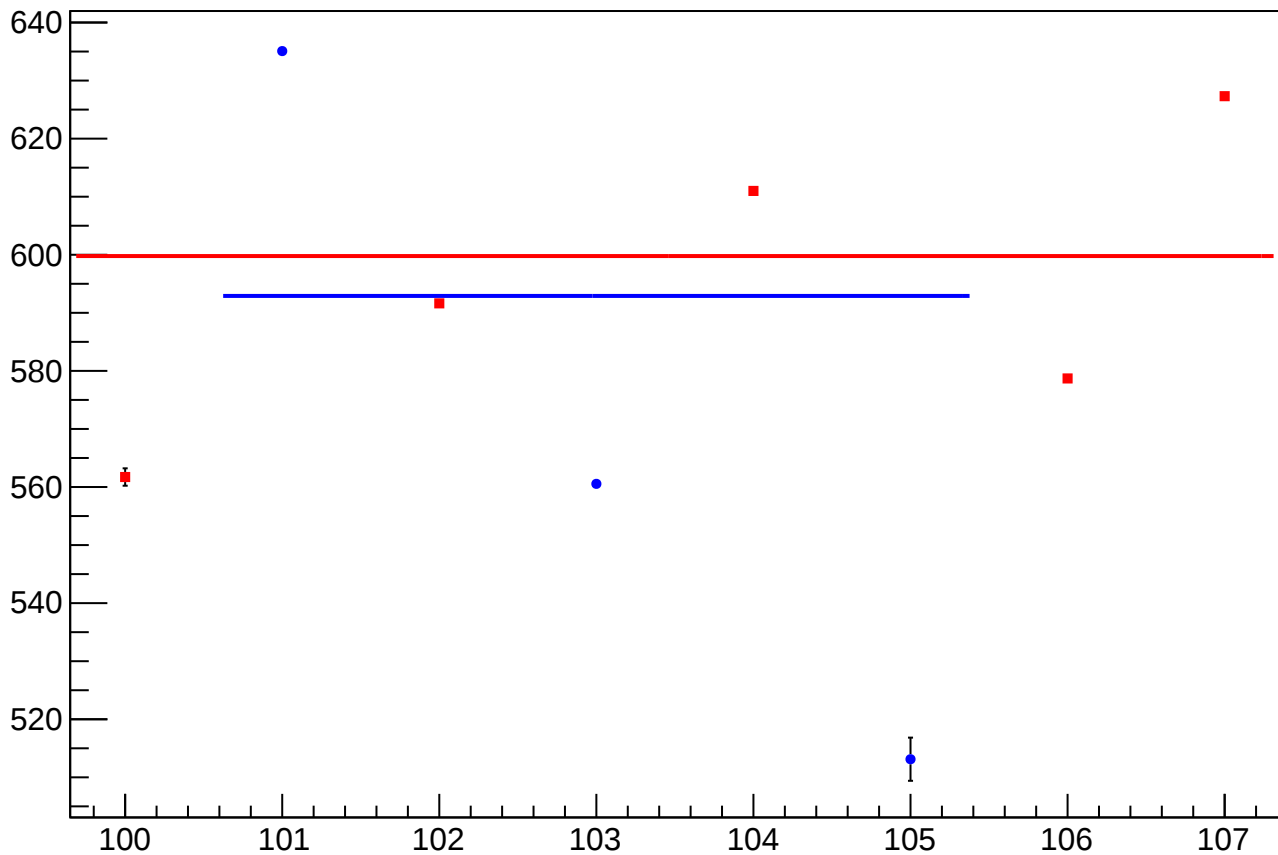
Right Out: 851.694+/-454.928  $\chi^2$ /NDF: 3.2/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-301.046+/-551.617  $\chi^2$ /NDF: 0.5/2

851.694+/-454.928  $\chi^2$ /NDF: 3.2/4

# asym\_sam\_15\_dd\_correction\_rms vs slug



Right In: 592.911 $\pm$ 0.390  $\chi^2$ /NDF: 9389.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

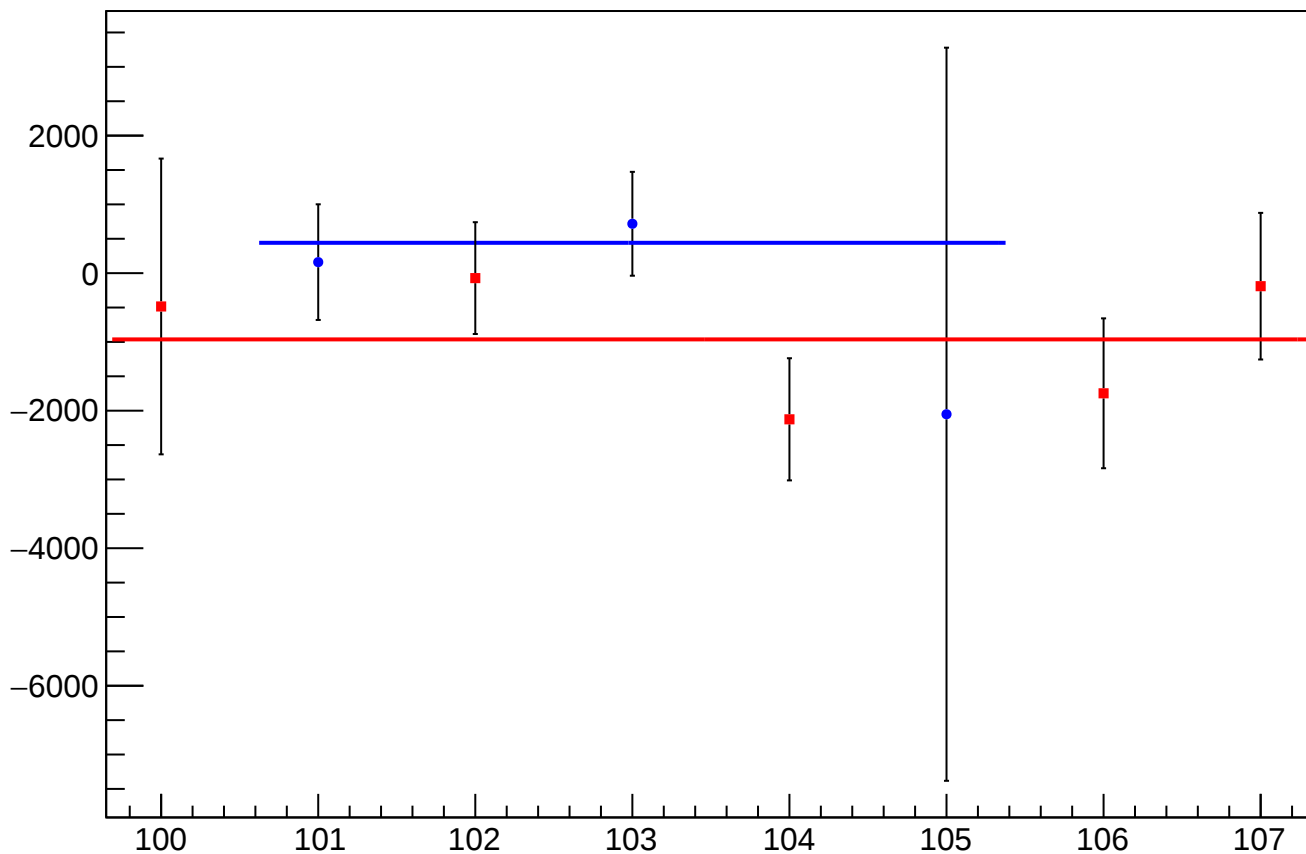
Right Out: 599.778 $\pm$ 0.322  $\chi^2$ /NDF: 3306.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

592.911 $\pm$ 0.390  $\chi^2$ /NDF: 9389.1/2

599.778 $\pm$ 0.322  $\chi^2$ /NDF: 3306.9/4

# asym\_sam\_15\_dd\_mean vs slug



Right In: 441.324 $\pm$ 558.745  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

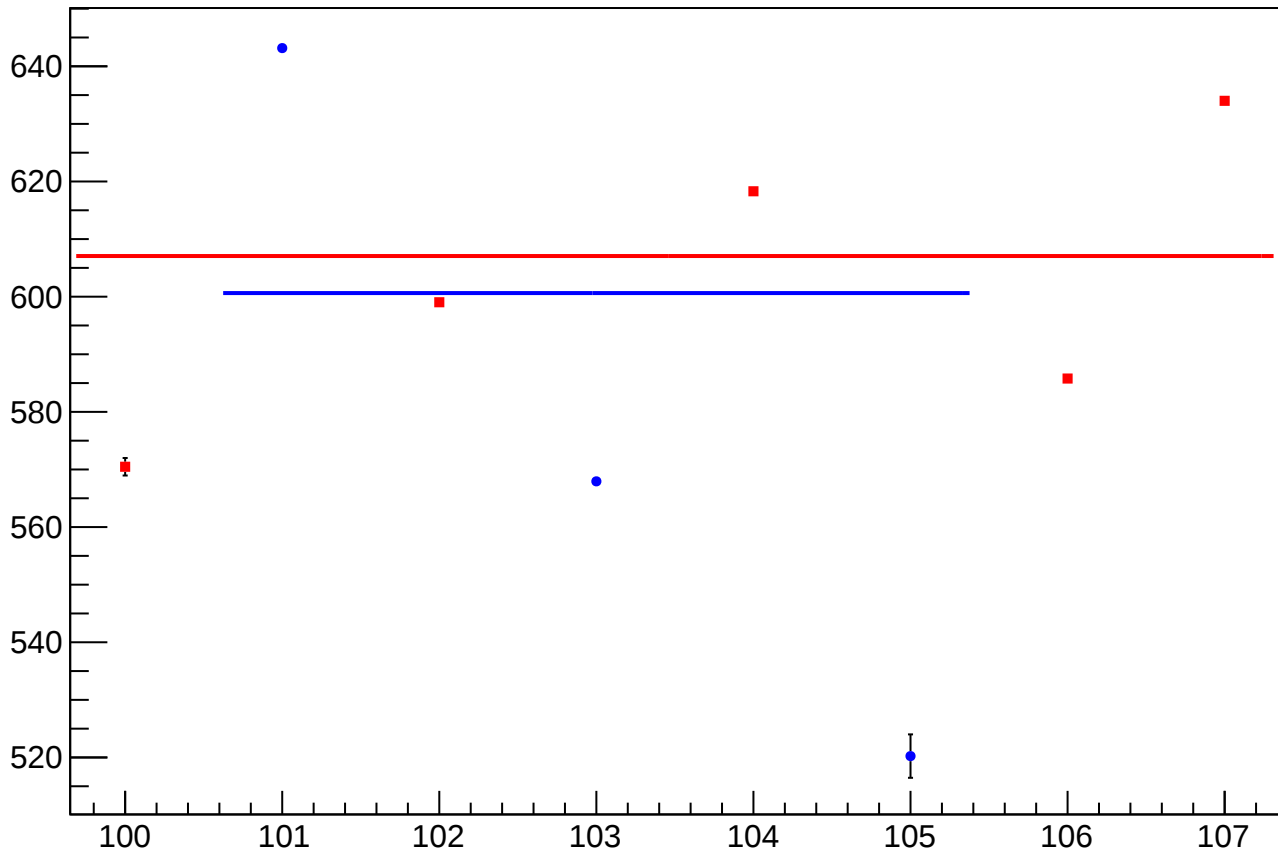
Right Out: -963.337 $\pm$ 460.333  $\chi^2$ /NDF: 4.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

441.324 $\pm$ 558.745  $\chi^2$ /NDF: 0.5/2

-963.337 $\pm$ 460.333  $\chi^2$ /NDF: 4.0/4

# asym\_sam\_15\_dd\_rms vs slug



Right In: 600.627 $\pm$ 0.395  $\chi^2$ /NDF: 9319.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

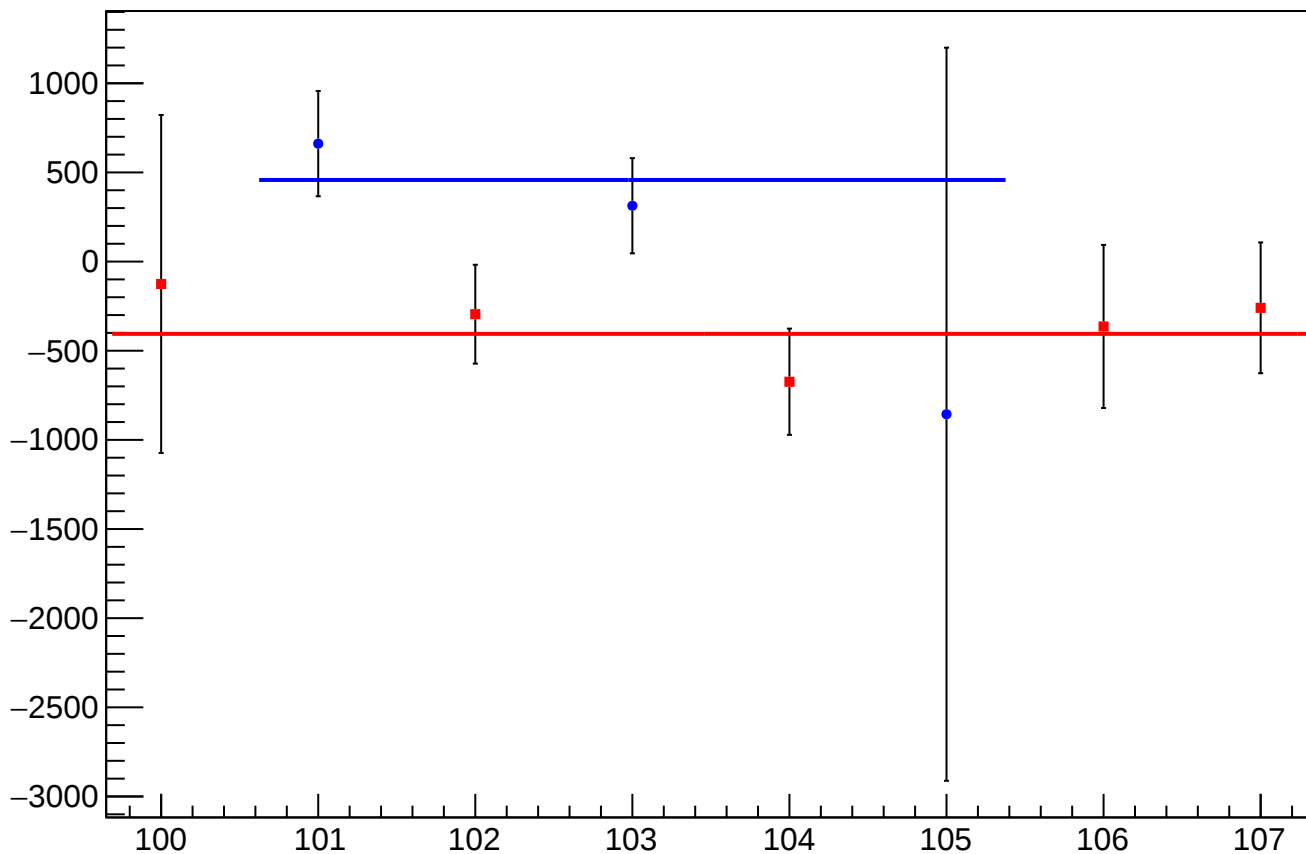
Right Out: 607.058 $\pm$ 0.326  $\chi^2$ /NDF: 3134.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

600.627 $\pm$ 0.395  $\chi^2$ /NDF: 9319.3/2

607.058 $\pm$ 0.326  $\chi^2$ /NDF: 3134.0/4

# reg\_asym\_sam\_26\_dd\_mean vs slug



Right In: 457.708 $\pm$ 197.052  $\chi^2$ /NDF: 1.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

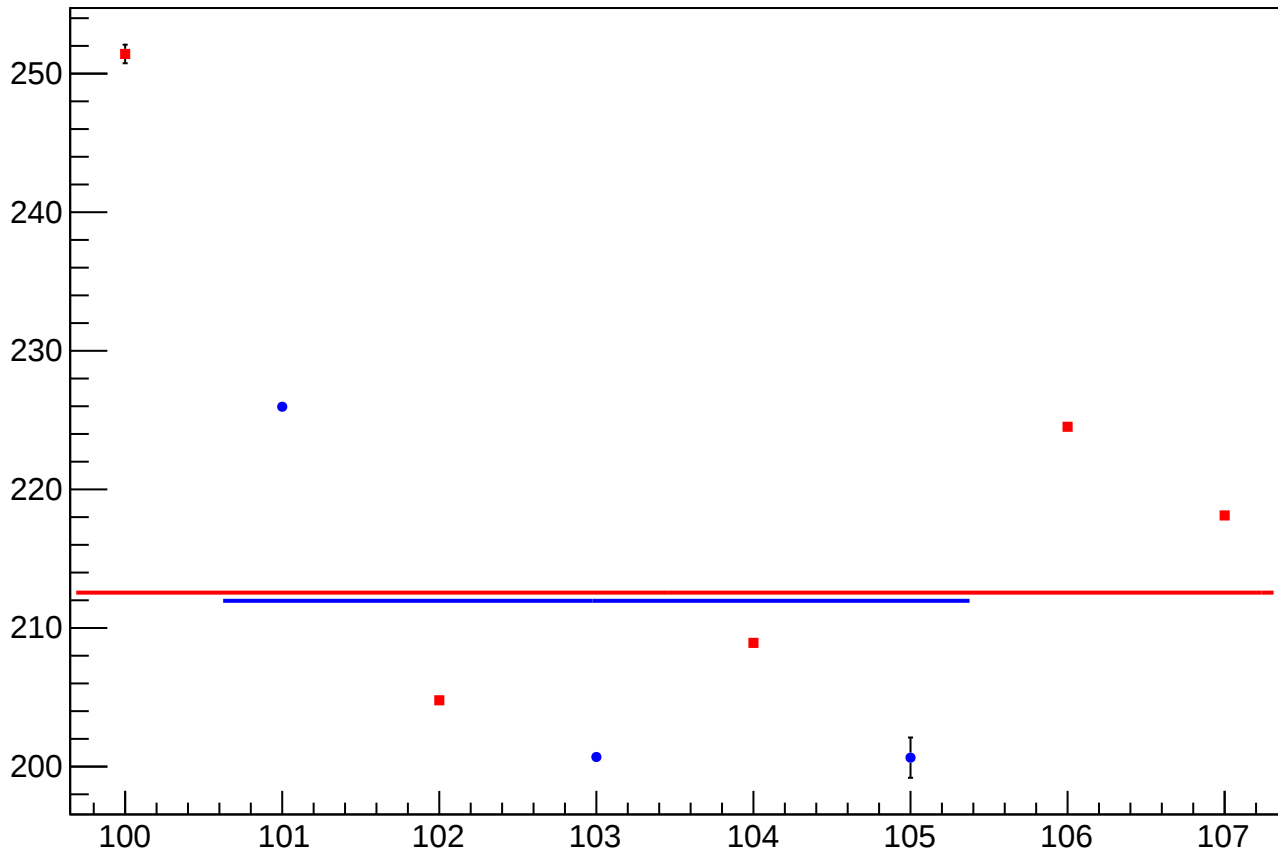
Right Out: -405.318 $\pm$ 163.080  $\chi^2$ /NDF: 1.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

457.708 $\pm$ 197.052  $\chi^2$ /NDF: 1.2/2

-405.318 $\pm$ 163.080  $\chi^2$ /NDF: 1.2/4

# reg\_asym\_sam\_26\_dd\_rms vs slug



Right In: 211.961 $\pm$ 0.139  $\chi^2$ /NDF: 8128.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

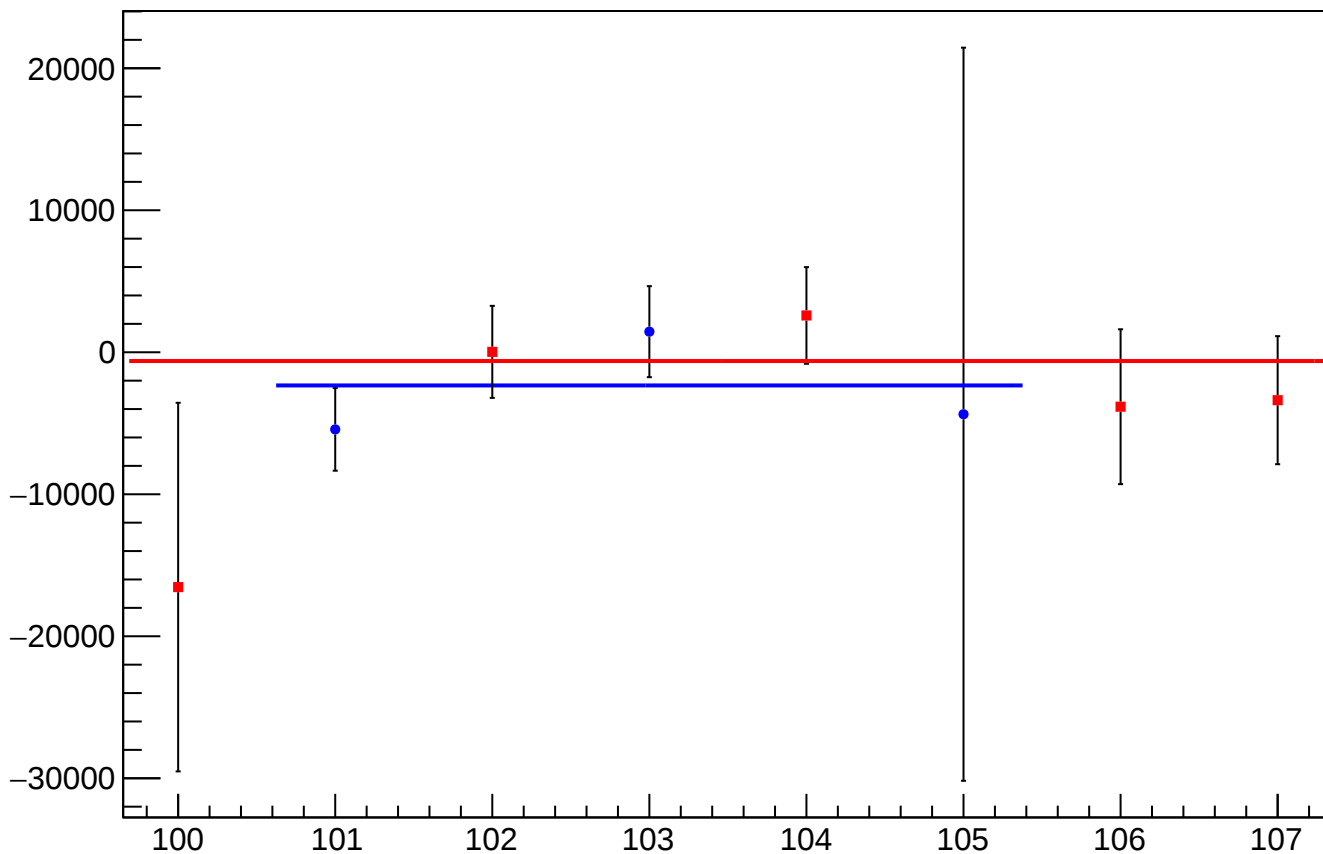
Right Out: 212.552 $\pm$ 0.115  $\chi^2$ /NDF: 7060.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

211.961 $\pm$ 0.139  $\chi^2$ /NDF: 8128.0/2

212.552 $\pm$ 0.115  $\chi^2$ /NDF: 7060.1/4

# asym\_sam\_26\_dd\_correction\_mean vs slug



Right In: -2335.996+/-2146.730  $\chi^2$ /NDF: 2.5/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

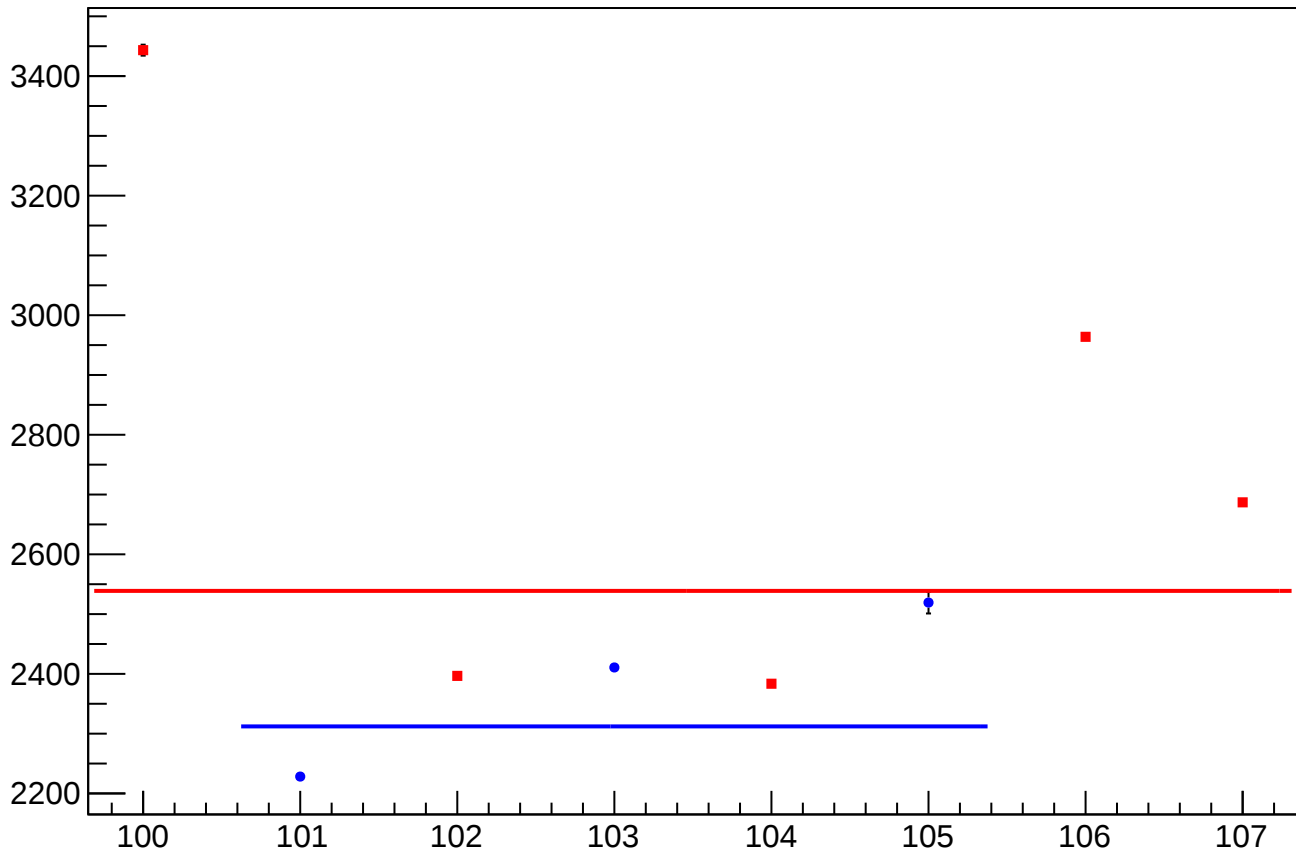
Right Out: -616.691+/-1923.208  $\chi^2$ /NDF: 3.2/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2335.996+/-2146.730  $\chi^2$ /NDF: 2.5/2

-616.691+/-1923.208  $\chi^2$ /NDF: 3.2/4

# asym\_sam\_26\_dd\_correction\_rms vs slug



Right In: 2312.130+/-1.518  $\chi^2/\text{NDF}$ : 3685.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

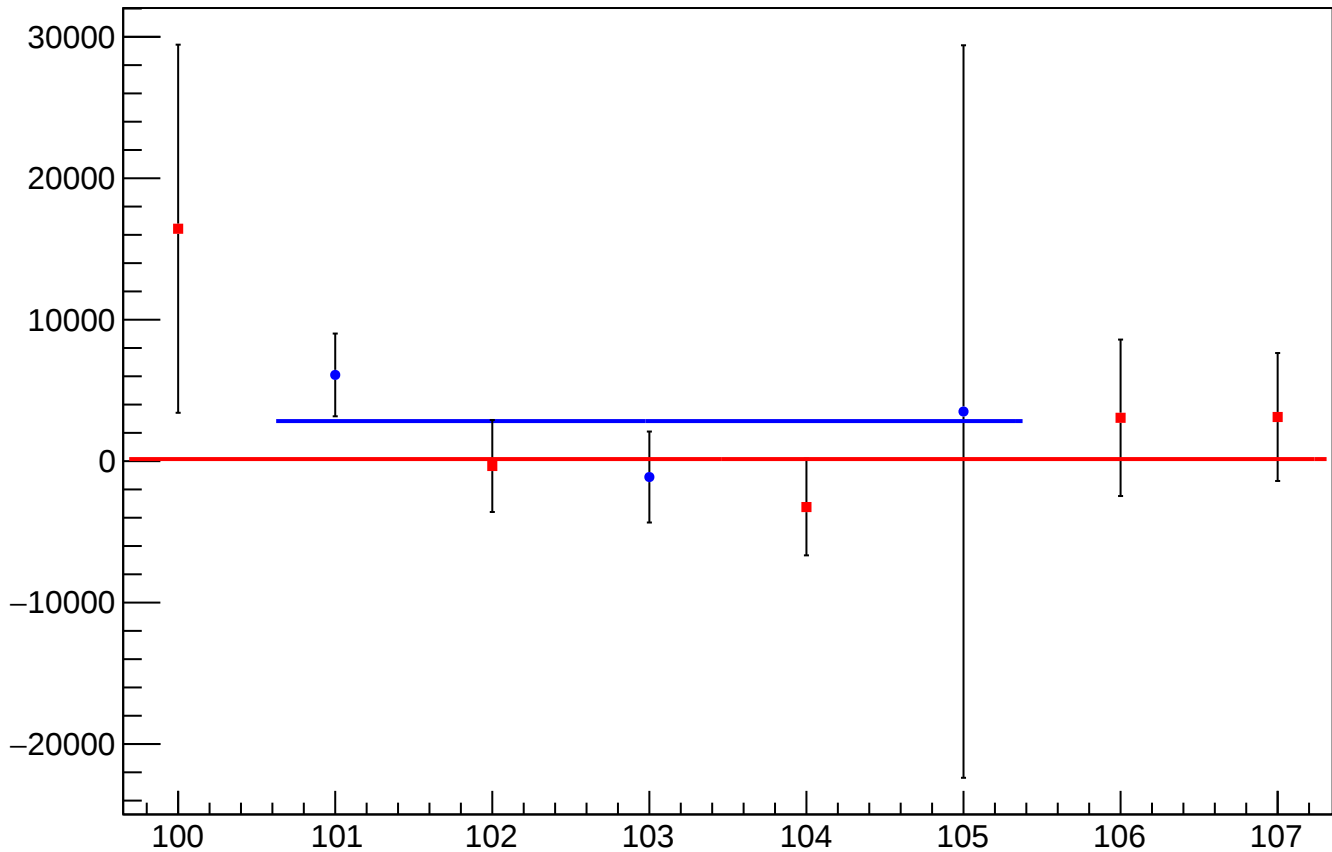
2312.130+/-1.518  $\chi^2/\text{NDF}$ : 3685.7/2

Right Out: 2538.827+/-1.360  $\chi^2/\text{NDF}$ : 32041.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2538.827+/-1.360  $\chi^2/\text{NDF}$ : 32041.0/4

# asym\_sam\_26\_dd\_mean vs slug



Right In: 2833.394+/-2156.210  $\chi^2/\text{NDF}$ : 2.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

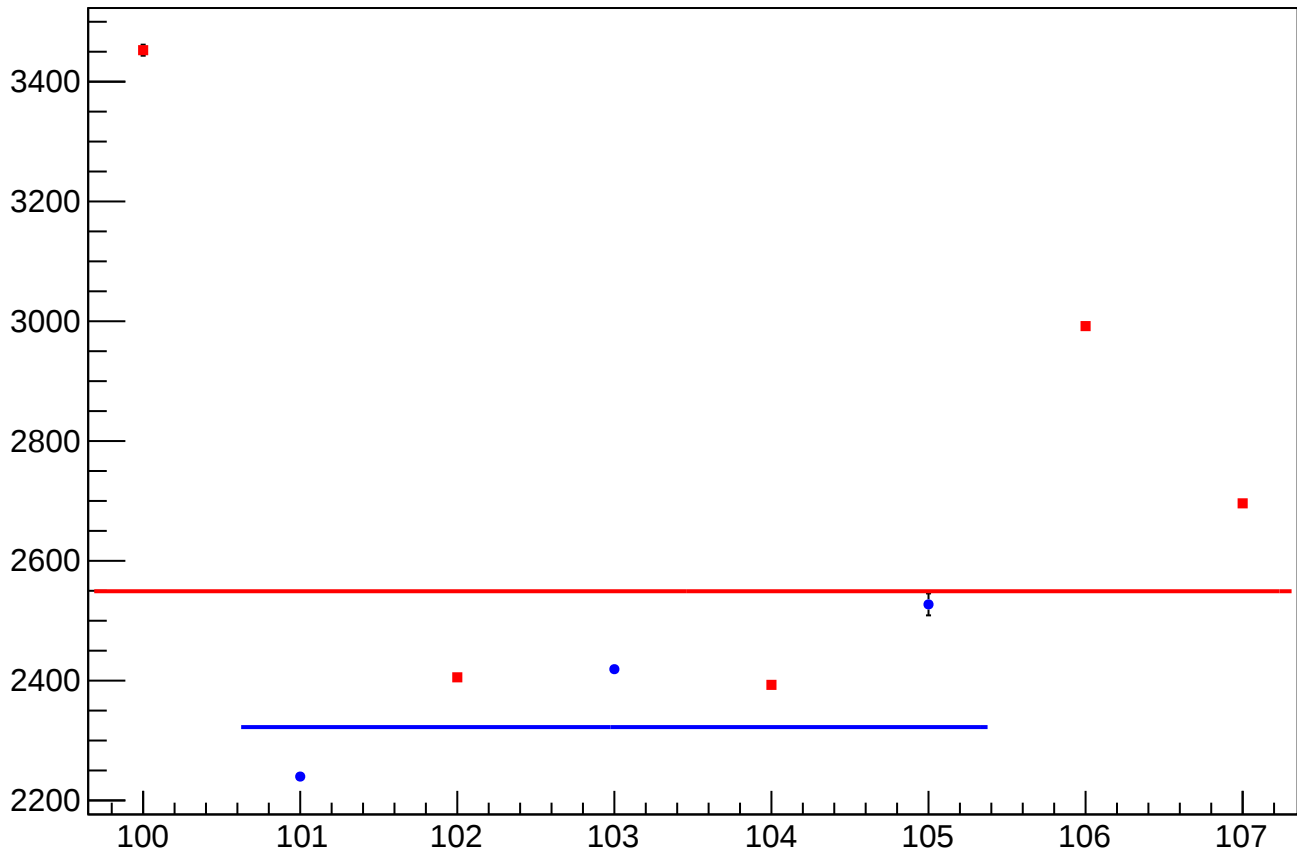
Right Out: 147.273+/-1932.799  $\chi^2/\text{NDF}$ : 3.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2833.394+/-2156.210  $\chi^2/\text{NDF}$ : 2.8/2

147.273+/-1932.799  $\chi^2/\text{NDF}$ : 3.3/4

# asym\_sam\_26\_dd\_rms vs slug



Right In: 2322.438 $\pm$ 1.525  $\chi^2$ /NDF: 3528.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

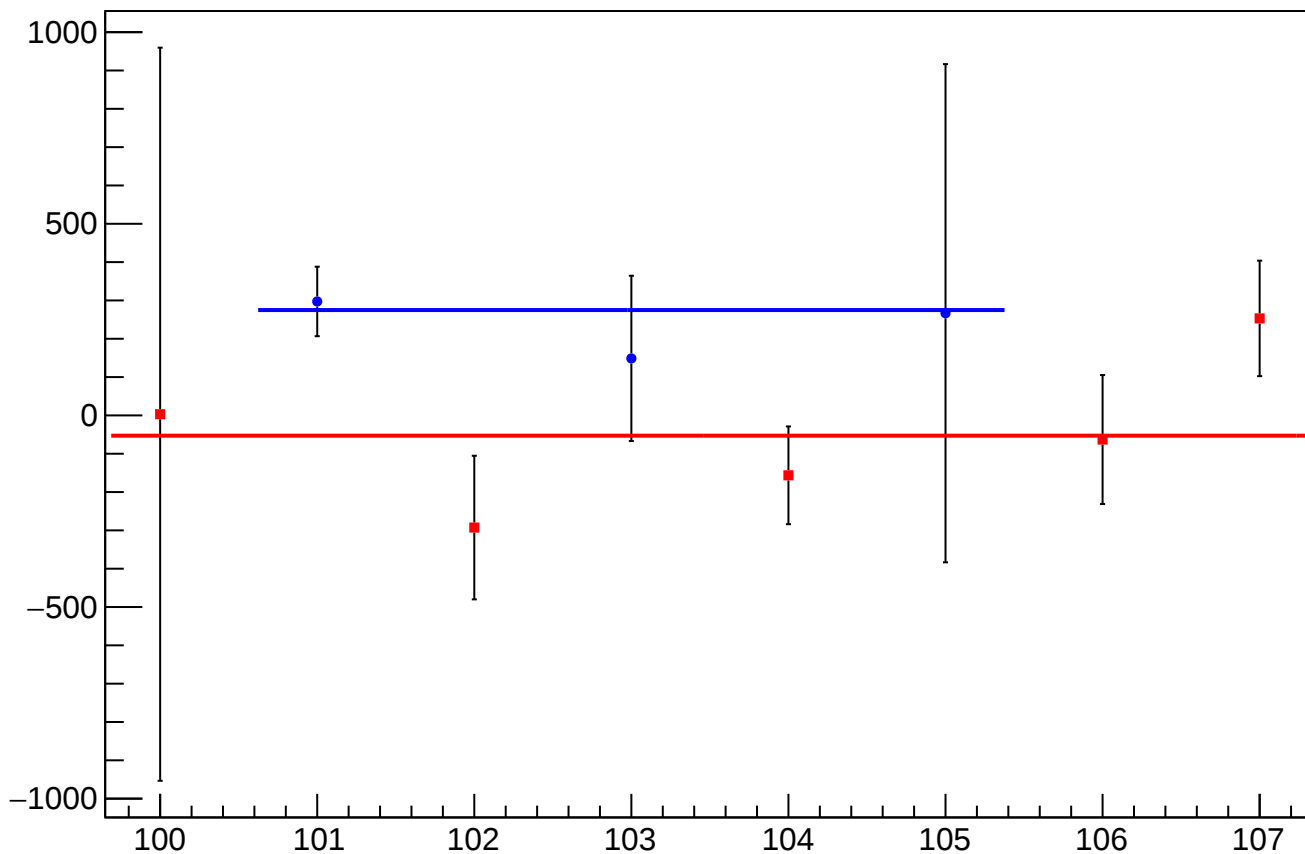
2322.438 $\pm$ 1.525  $\chi^2$ /NDF: 3528.1/2

Right Out: 2549.236 $\pm$ 1.367  $\chi^2$ /NDF: 32644.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2549.236 $\pm$ 1.367  $\chi^2$ /NDF: 32644.8/4

# reg\_asym\_sam\_37\_dd\_mean vs slug



Right In: 274.877+/-82.925  $\chi^2/\text{NDF}$ : 0.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

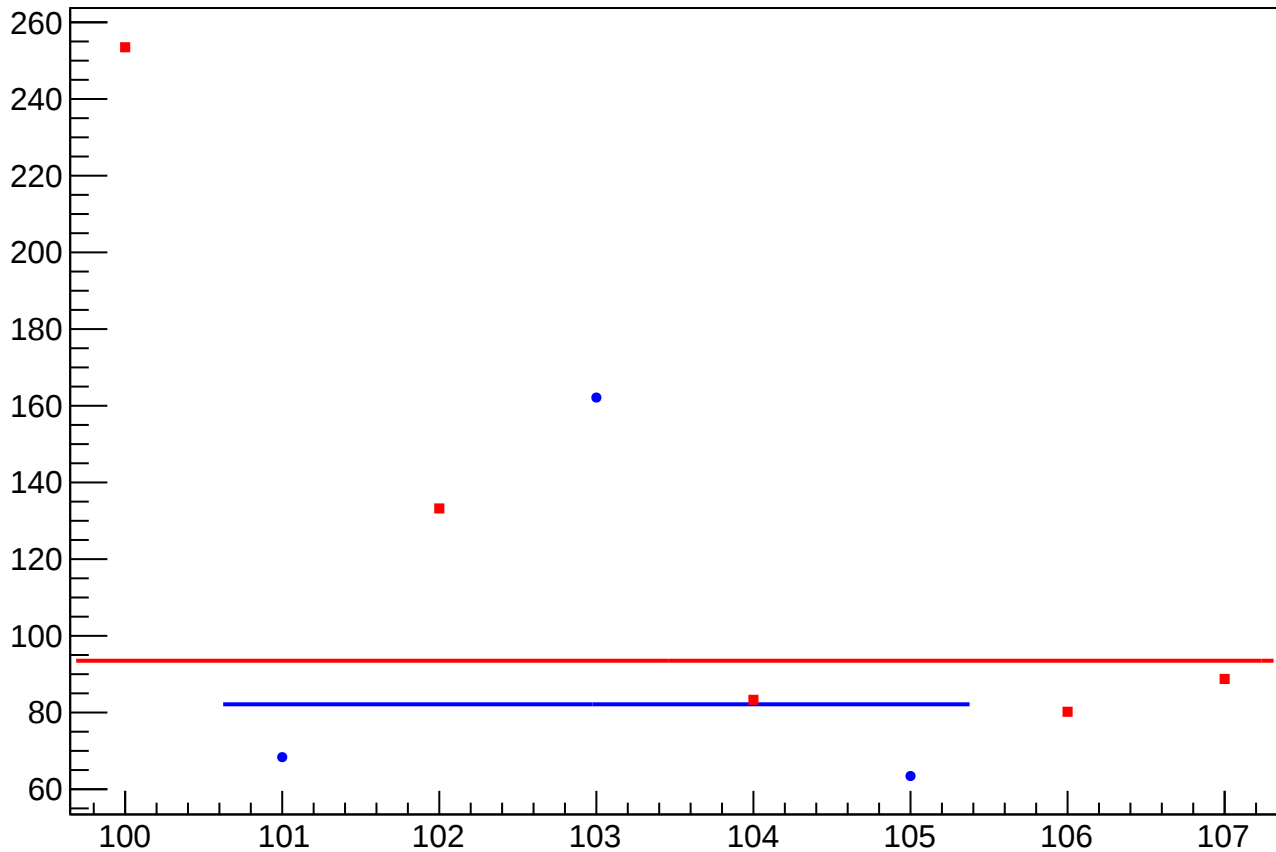
Right Out: -52.889+/-76.609  $\chi^2/\text{NDF}$ : 6.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

274.877+/-82.925  $\chi^2/\text{NDF}$ : 0.4/2

-52.889+/-76.609  $\chi^2/\text{NDF}$ : 6.4/4

# reg\_asym\_sam\_37\_dd\_rms vs slug



Right In: 82.147+/-0.059  $\chi^2/\text{NDF}$ : 322946.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

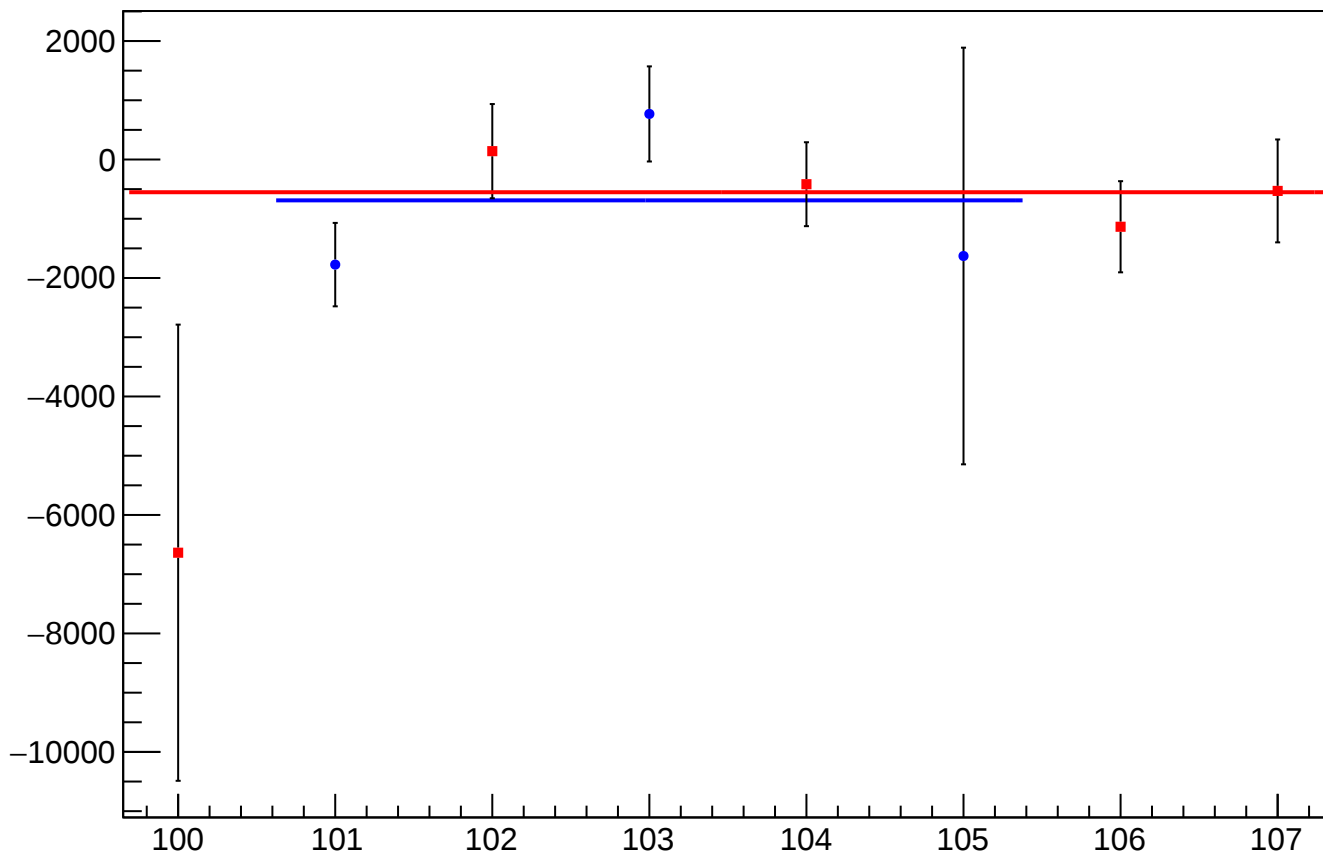
Right Out: 93.511+/-0.054  $\chi^2/\text{NDF}$ : 173061.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

82.147+/-0.059  $\chi^2/\text{NDF}$ : 322946.7/2

93.511+/-0.054  $\chi^2/\text{NDF}$ : 173061.7/4

# asym\_sam\_37\_dd\_correction\_mean vs slug



Right In: -689.688+/-523.451  $\chi^2$ /NDF: 5.7/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

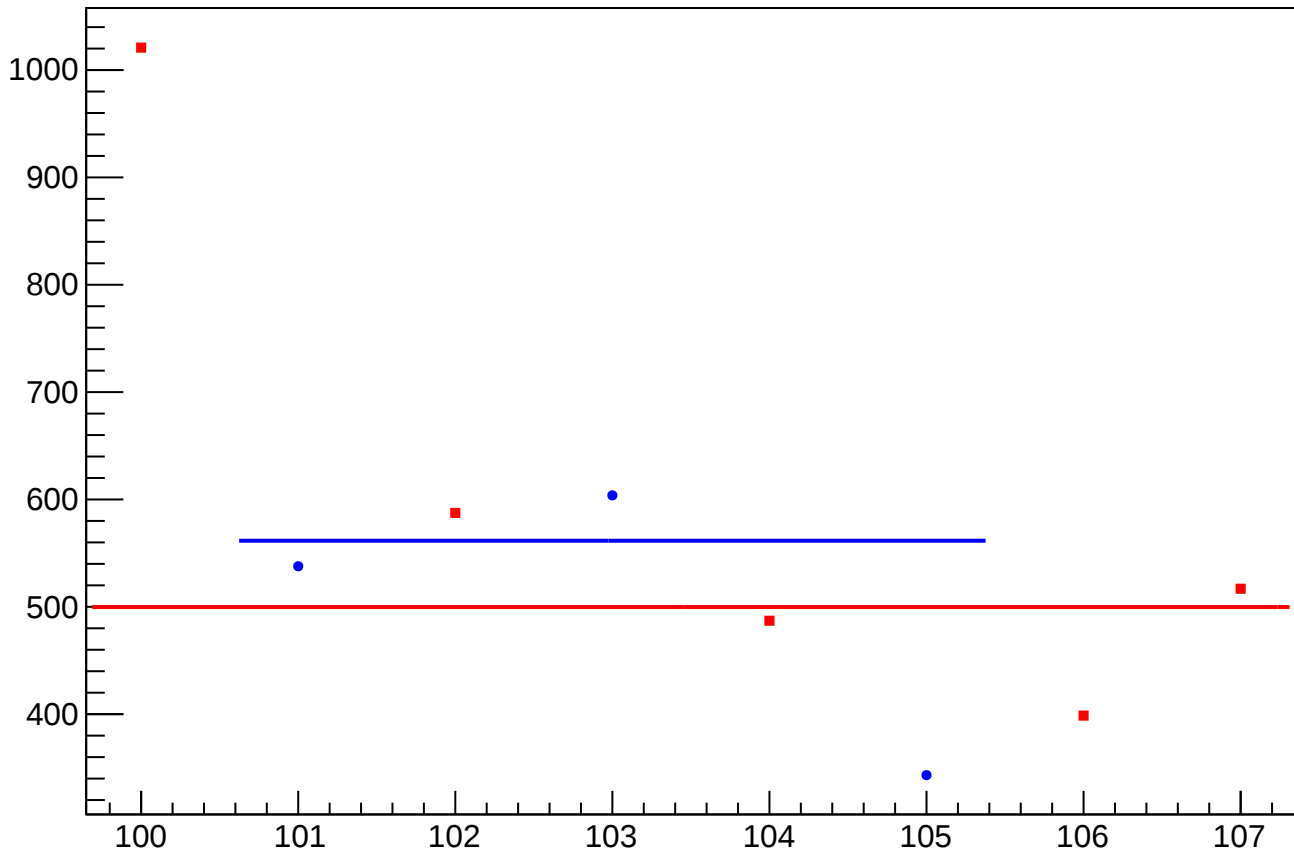
Right Out: -552.267+/-387.569  $\chi^2$ /NDF: 3.9/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-689.688+/-523.451  $\chi^2$ /NDF: 5.7/2

-552.267+/-387.569  $\chi^2$ /NDF: 3.9/4

# asym\_sam\_37\_dd\_correction\_rms vs slug



Right In: 561.560 $\pm$ 0.370  $\chi^2$ /NDF: 15532.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

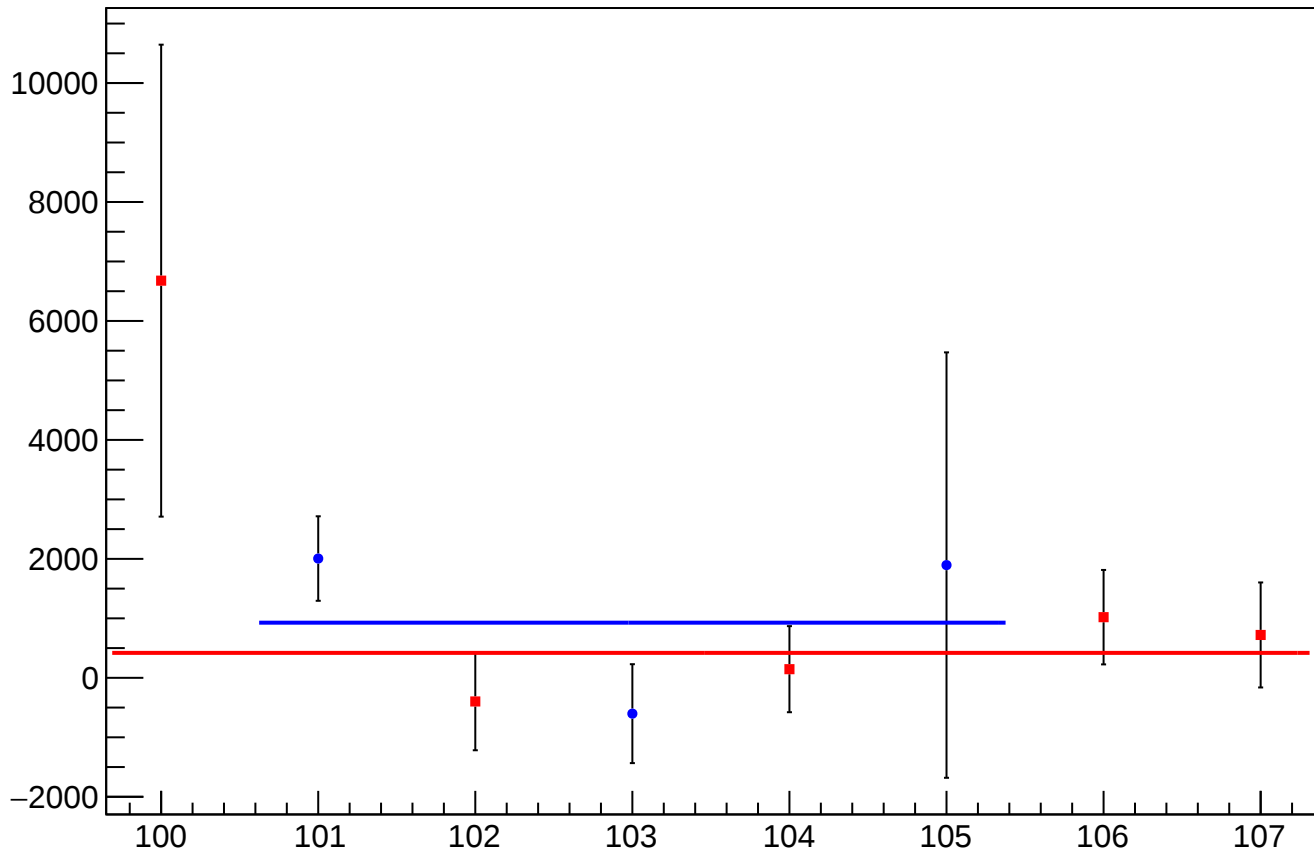
561.560 $\pm$ 0.370  $\chi^2$ /NDF: 15532.0/2

Right Out: 499.805 $\pm$ 0.274  $\chi^2$ /NDF: 96928.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

499.805 $\pm$ 0.274  $\chi^2$ /NDF: 96928.5/4

# asym\_sam\_37\_dd\_mean vs slug



Right In: 927.270 $\pm$ 534.061  $\chi^2$ /NDF: 5.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

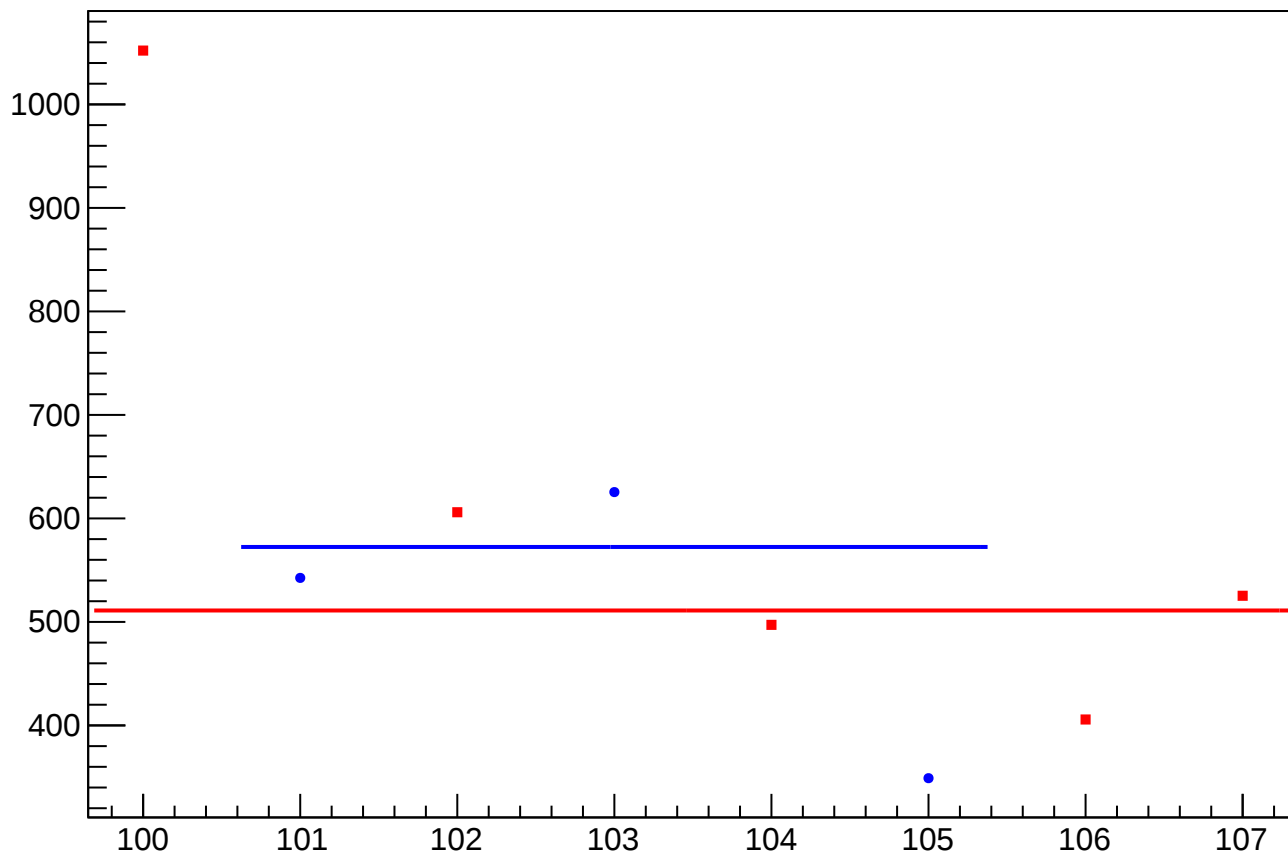
Right Out: 419.489 $\pm$ 397.523  $\chi^2$ /NDF: 4.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

927.270 $\pm$ 534.061  $\chi^2$ /NDF: 5.8/2

419.489 $\pm$ 397.523  $\chi^2$ /NDF: 4.3/4

# asym\_sam\_37\_dd\_rms vs slug



Right In: 572.422+/-0.378  $\chi^2/\text{NDF}$ : 19476.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

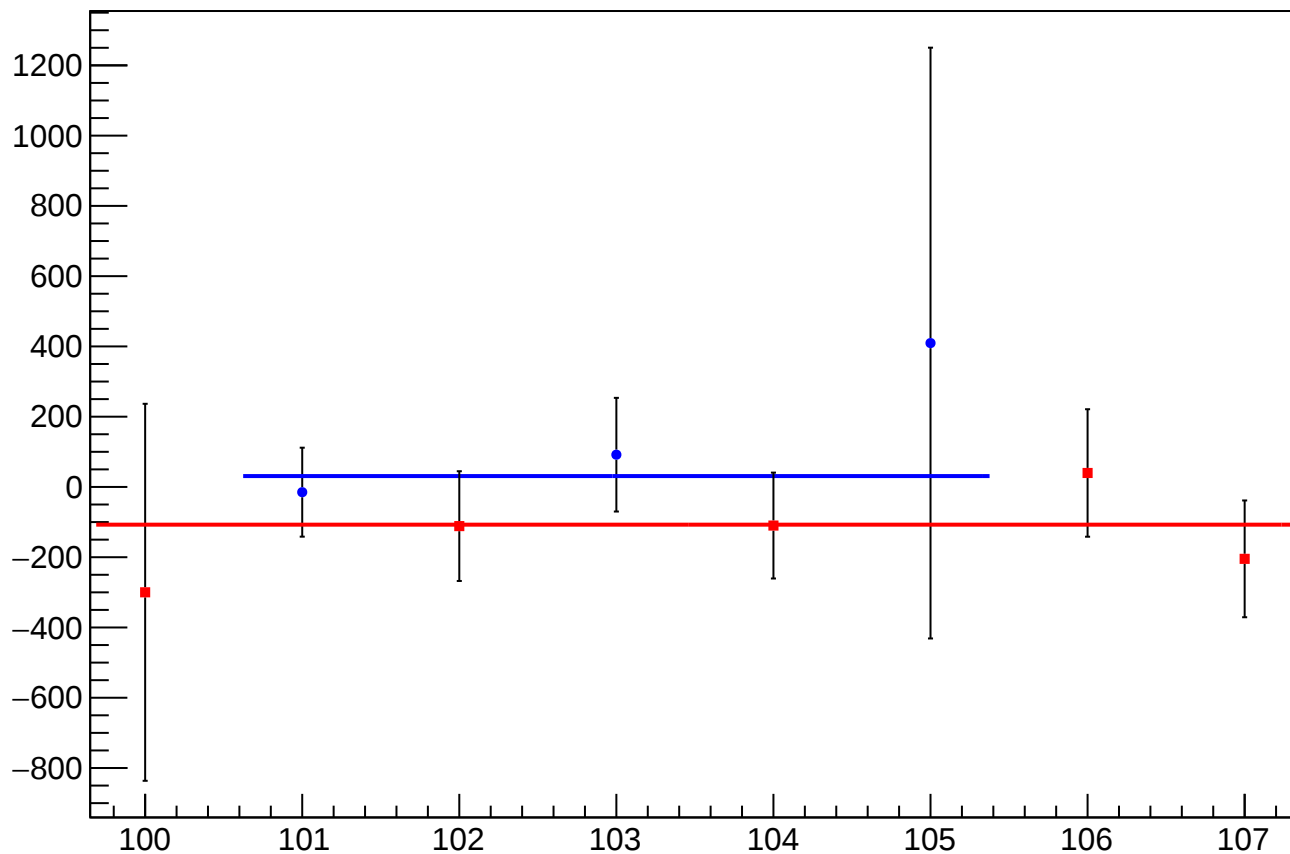
Right Out: 511.049+/-0.281  $\chi^2/\text{NDF}$ : 100397.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

572.422+/-0.378  $\chi^2/\text{NDF}$ : 19476.3/2

511.049+/-0.281  $\chi^2/\text{NDF}$ : 100397.0/4

# reg\_asym\_sam\_48\_dd\_mean vs slug



Right In: 30.968 $\pm$ 99.015  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

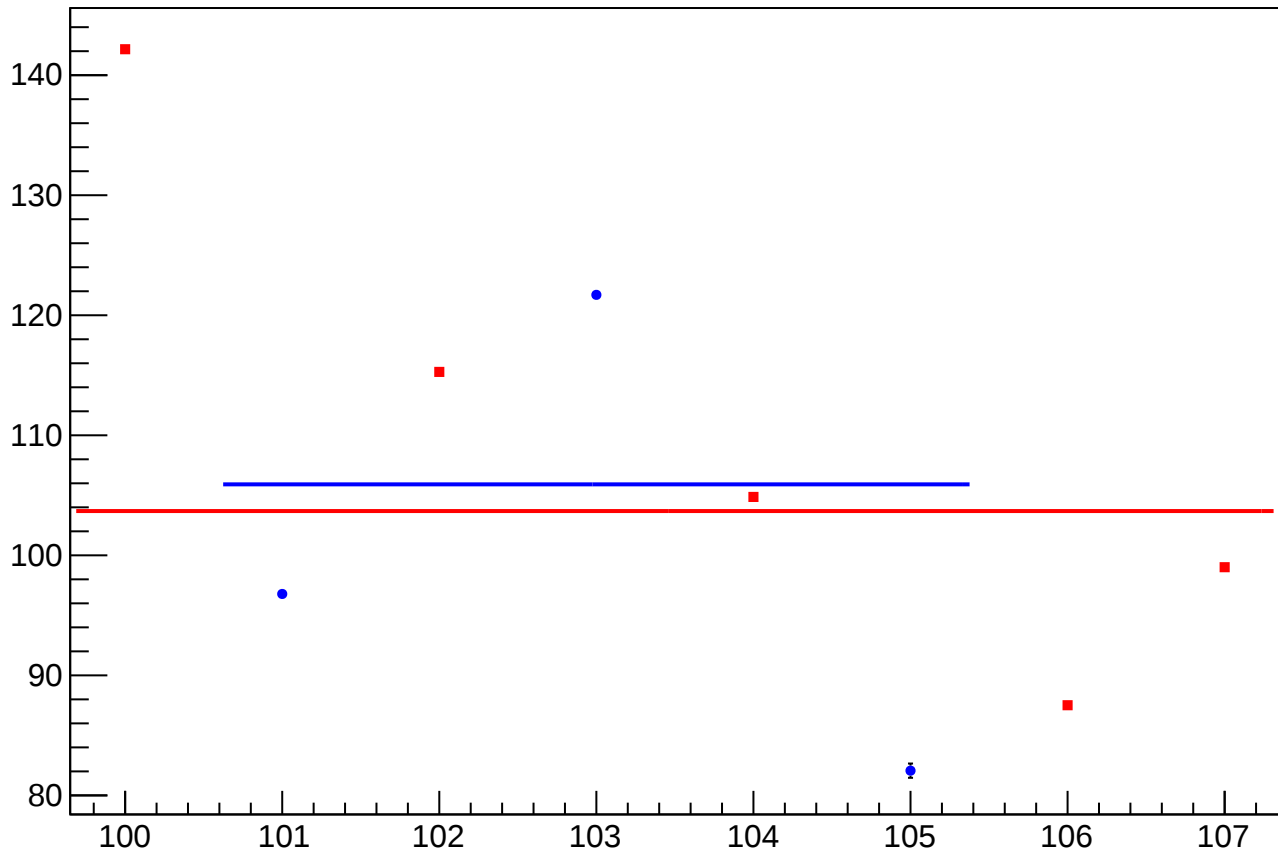
Right Out: -107.360 $\pm$ 80.304  $\chi^2$ /NDF: 1.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

30.968 $\pm$ 99.015  $\chi^2$ /NDF: 0.5/2

-107.360 $\pm$ 80.304  $\chi^2$ /NDF: 1.1/4

# reg\_asym\_sam\_48\_dd\_rms vs slug



Right In: 105.913+/-0.070  $\chi^2/\text{NDF}$ : 31056.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

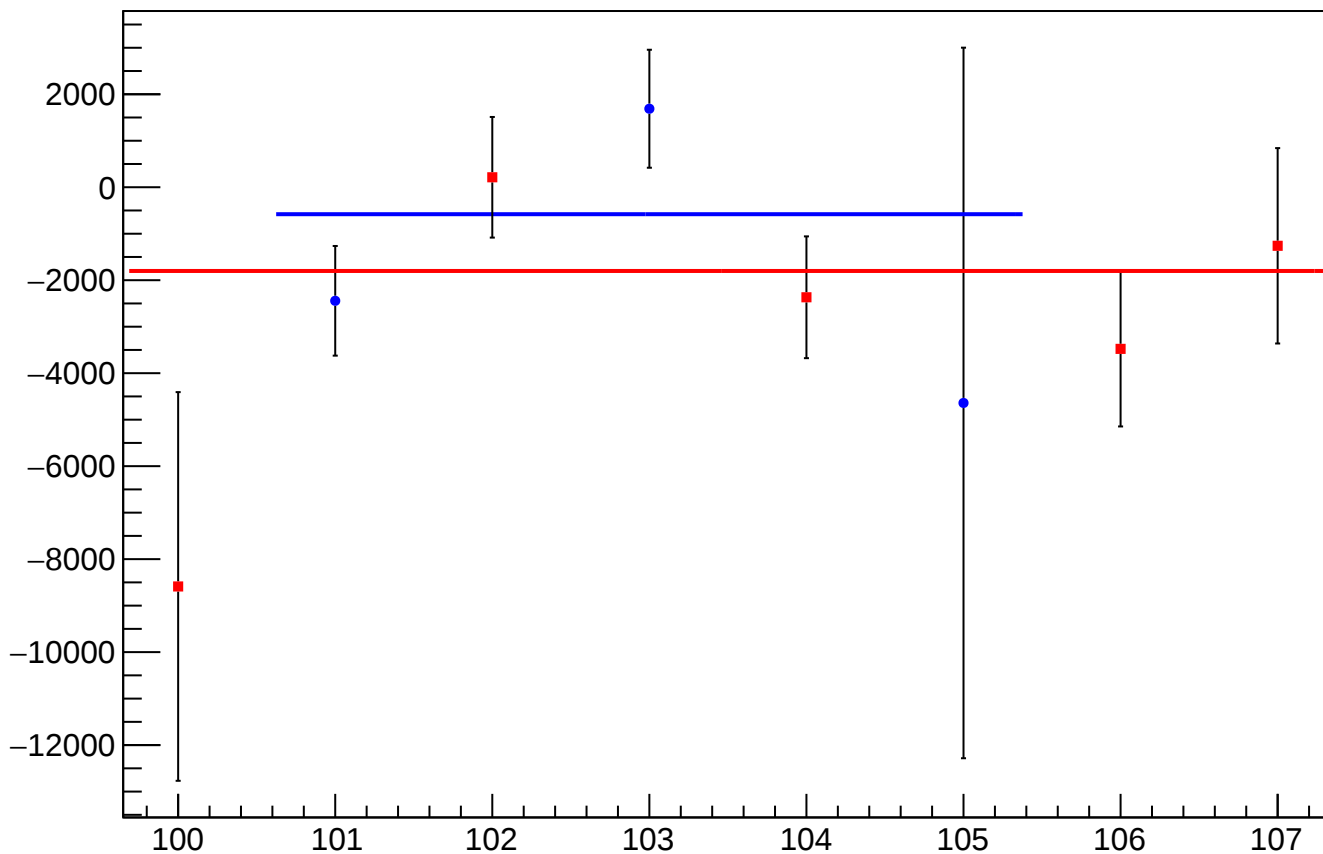
105.913+/-0.070  $\chi^2/\text{NDF}$ : 31056.5/2

Right Out: 103.689+/-0.057  $\chi^2/\text{NDF}$ : 38904.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

103.689+/-0.057  $\chi^2/\text{NDF}$ : 38904.3/4

# asym\_sam\_48\_dd\_correction\_mean vs slug



Right In: -580.112 $\pm$ 858.427  $\chi^2$ /NDF: 6.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

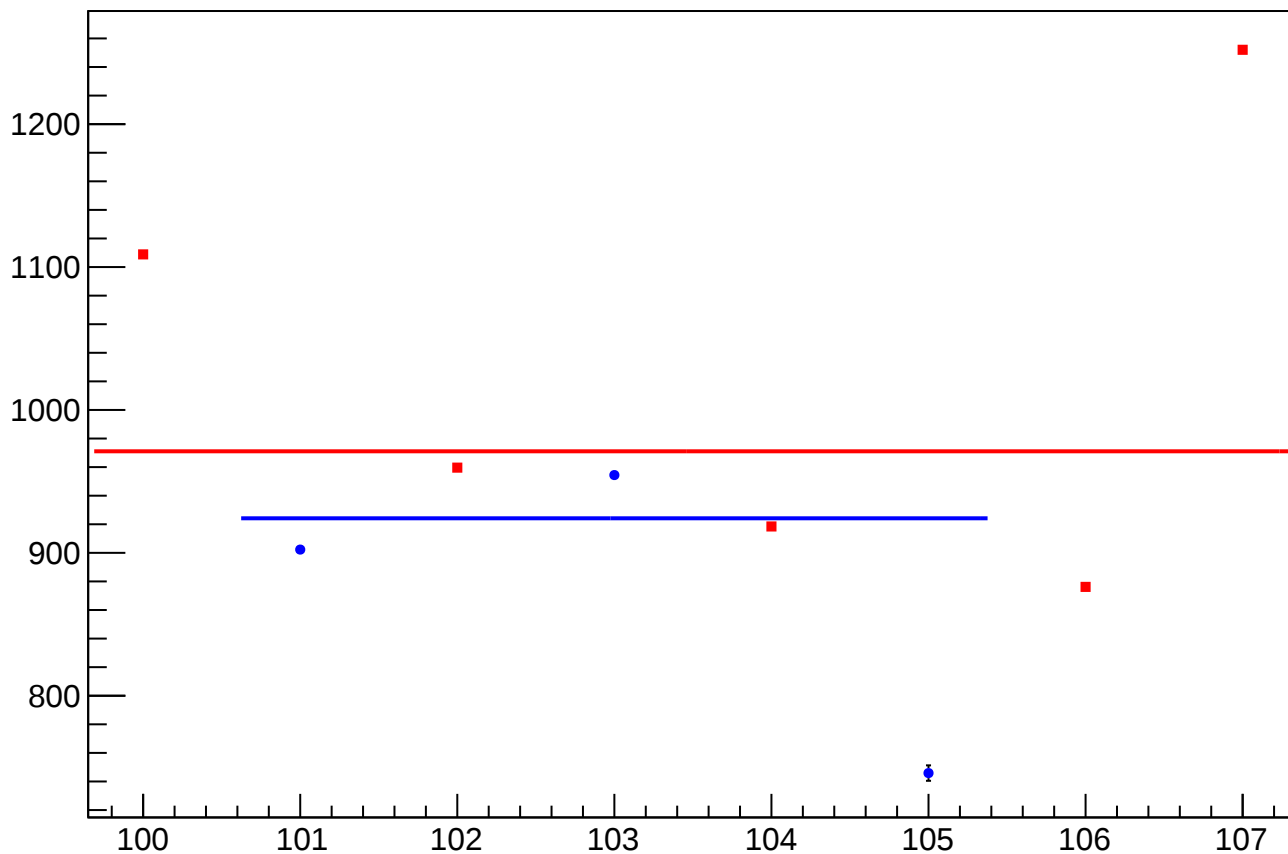
Right Out: -1801.223 $\pm$ 741.323  $\chi^2$ /NDF: 6.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-580.112 $\pm$ 858.427  $\chi^2$ /NDF: 6.0/2

-1801.223 $\pm$ 741.323  $\chi^2$ /NDF: 6.3/4

# asym\_sam\_48\_dd\_correction\_rms vs slug



Right In: 924.178 $\pm$ 0.607  $\chi^2$ /NDF: 2914.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

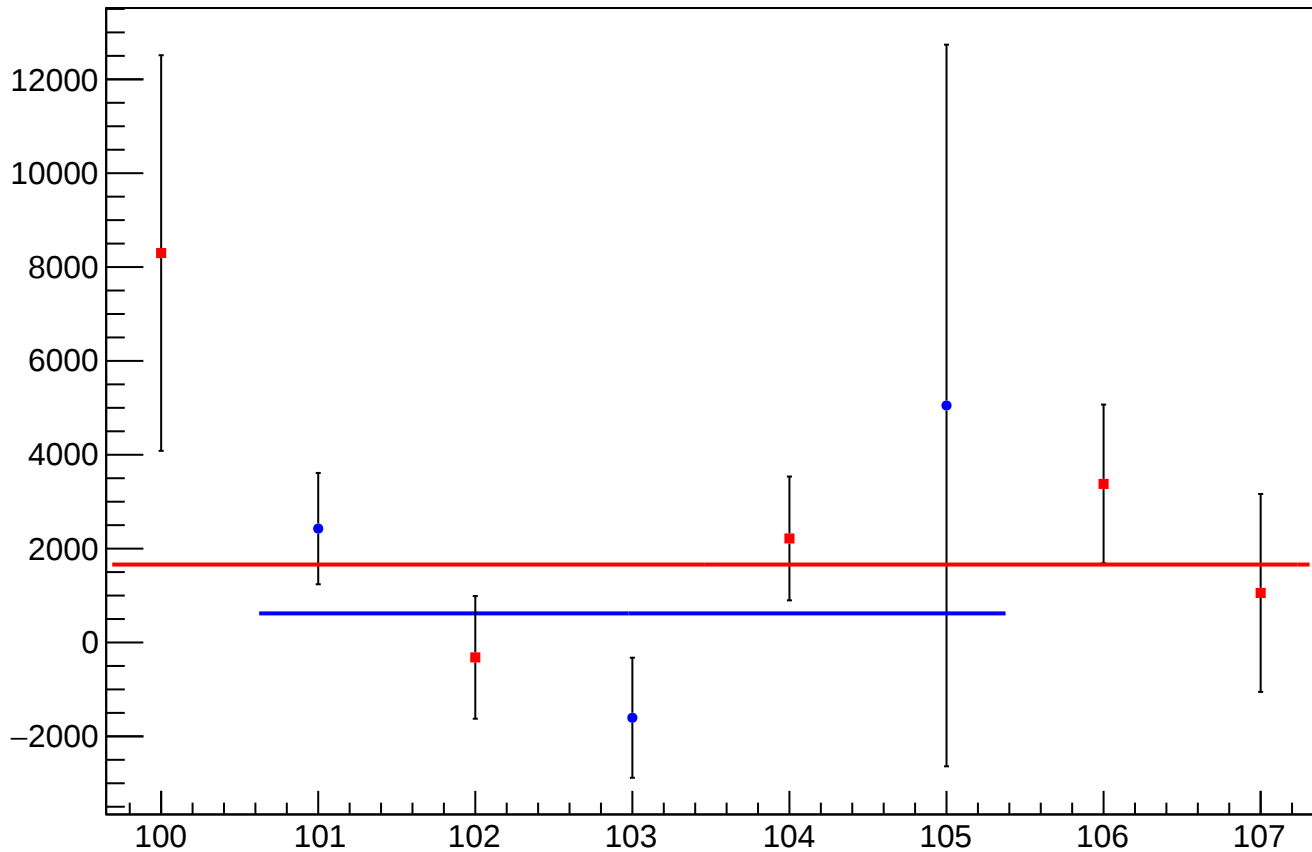
Right Out: 971.063 $\pm$ 0.524  $\chi^2$ /NDF: 47776.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

924.178 $\pm$ 0.607  $\chi^2$ /NDF: 2914.6/2

971.063 $\pm$ 0.524  $\chi^2$ /NDF: 47776.0/4

# asym\_sam\_48\_dd\_mean vs slug



Right In: 619.841 $\pm$ 864.324  $\chi^2$ /NDF: 5.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

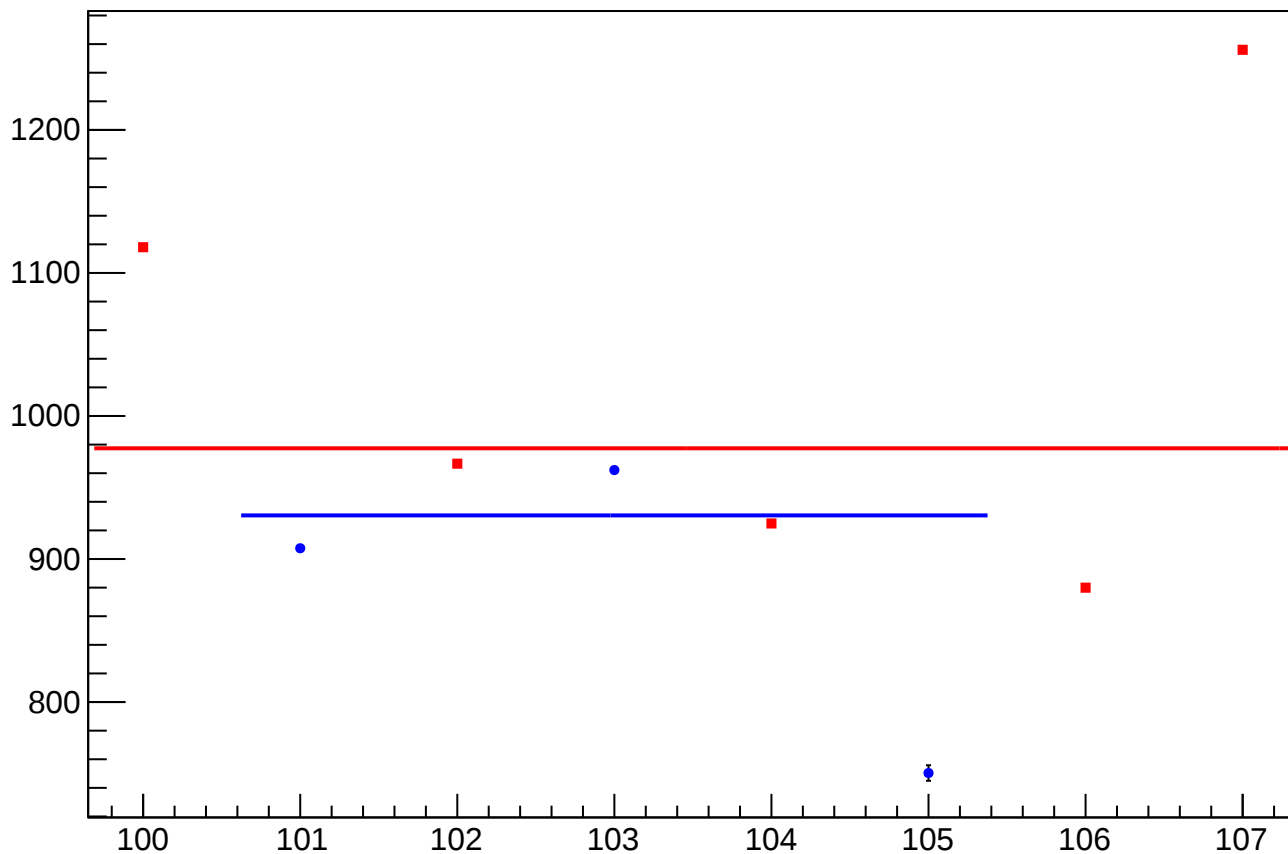
Right Out: 1661.149 $\pm$ 747.064  $\chi^2$ /NDF: 6.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

619.841 $\pm$ 864.324  $\chi^2$ /NDF: 5.7/2

1661.149 $\pm$ 747.064  $\chi^2$ /NDF: 6.1/4

# asym\_sam\_48\_dd\_rms vs slug



Right In: 930.498 $\pm$ 0.611  $\chi^2$ /NDF: 3075.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

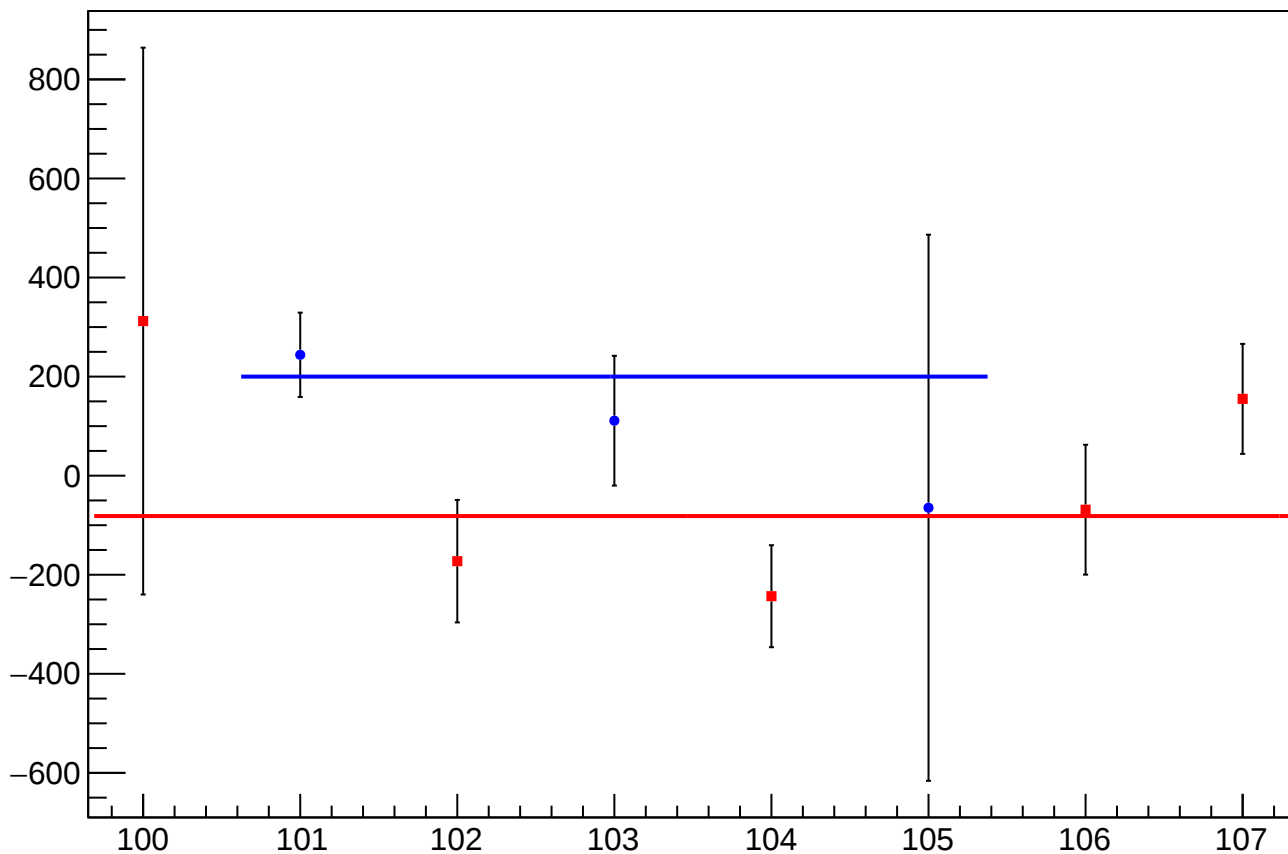
Right Out: 977.398 $\pm$ 0.528  $\chi^2$ /NDF: 47119.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

930.498 $\pm$ 0.611  $\chi^2$ /NDF: 3075.8/2

977.398 $\pm$ 0.528  $\chi^2$ /NDF: 47119.8/4

reg\_asym\_sam\_13\_57\_dd\_mean vs slug



Right In: 200.022+/-70.816  $\chi^2$ /NDF: 1.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

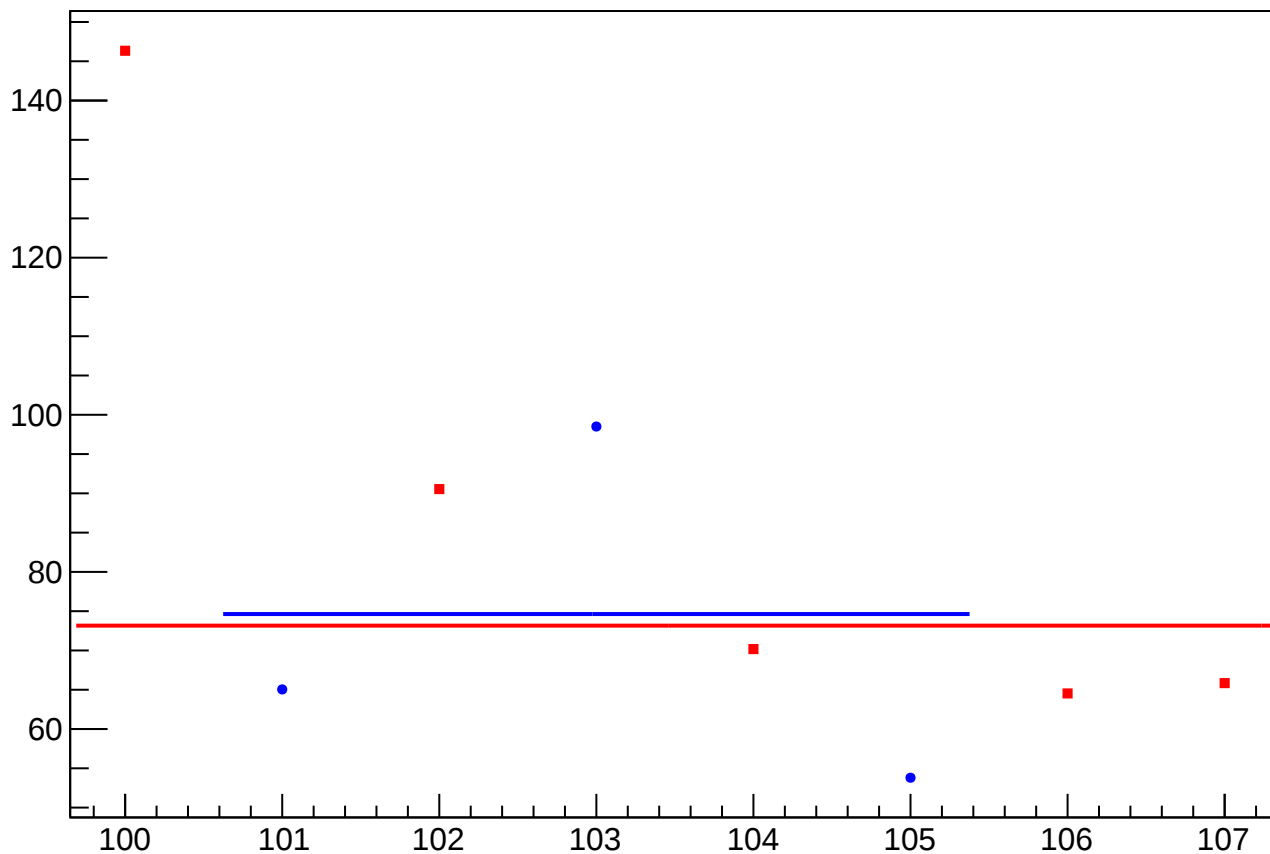
Right Out: -81.553+/-57.521  $\chi^2$ /NDF: 8.1/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

200.022+/-70.816  $\chi^2$ /NDF: 1.0/2

-81.553+/-57.521  $\chi^2$ /NDF: 8.1/4

# reg\_asym\_sam\_13\_57\_dd\_rms vs slug



Right In: 74.635+/-0.050  $\chi^2/\text{NDF}$ : 94644.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

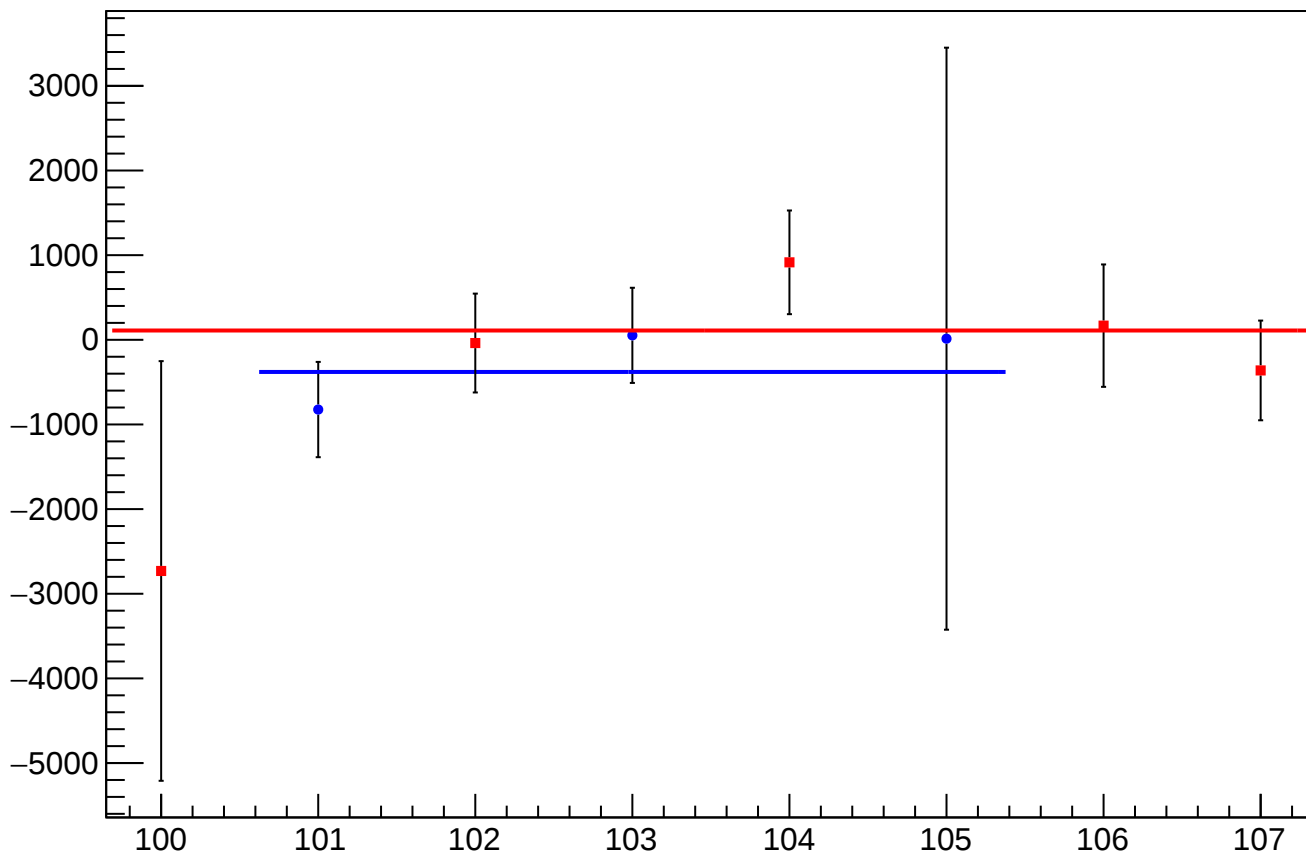
Right Out: 73.160+/-0.041  $\chi^2/\text{NDF}$ : 93676.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

74.635+/-0.050  $\chi^2/\text{NDF}$ : 94644.1/2

73.160+/-0.041  $\chi^2/\text{NDF}$ : 93676.0/4

# asym\_sam\_13\_57\_dd\_correction\_mean vs slug



Right In: -379.711 $\pm$ 395.105  $\chi^2$ /NDF: 1.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

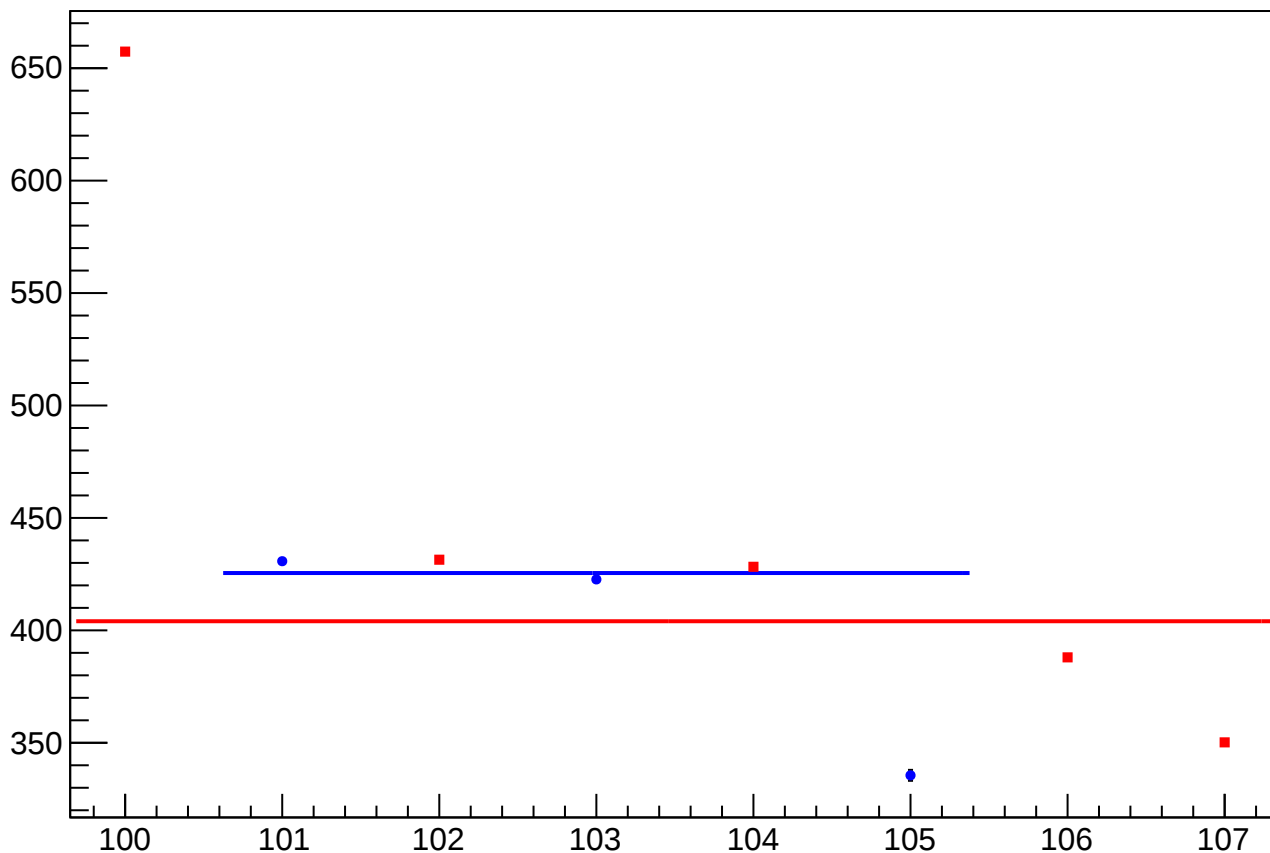
Right Out: 109.970 $\pm$ 307.752  $\chi^2$ /NDF: 3.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-379.711 $\pm$ 395.105  $\chi^2$ /NDF: 1.2/2

109.970 $\pm$ 307.752  $\chi^2$ /NDF: 3.8/4

# asym\_sam\_13\_57\_dd\_correction\_rms vs slug



Right In: 425.495+/-0.279  $\chi^2/\text{NDF}$ : 1595.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

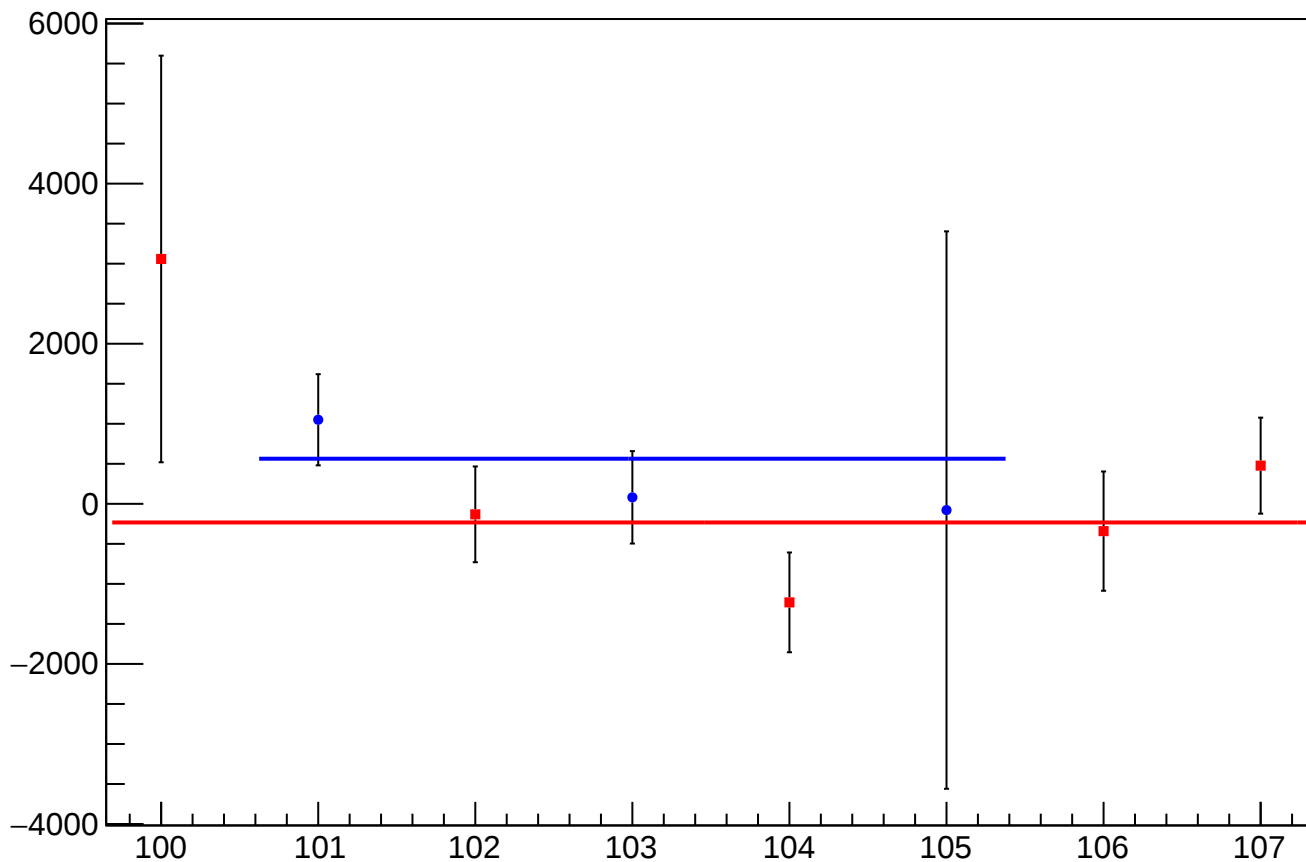
425.495+/-0.279  $\chi^2/\text{NDF}$ : 1595.5/2

Right Out: 404.056+/-0.218  $\chi^2/\text{NDF}$ : 46123.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

404.056+/-0.218  $\chi^2/\text{NDF}$ : 46123.0/4

# asym\_sam\_13\_57\_dd\_mean vs slug



Right In: 563.506+/-402.696  $\chi^2/\text{NDF}$ : 1.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

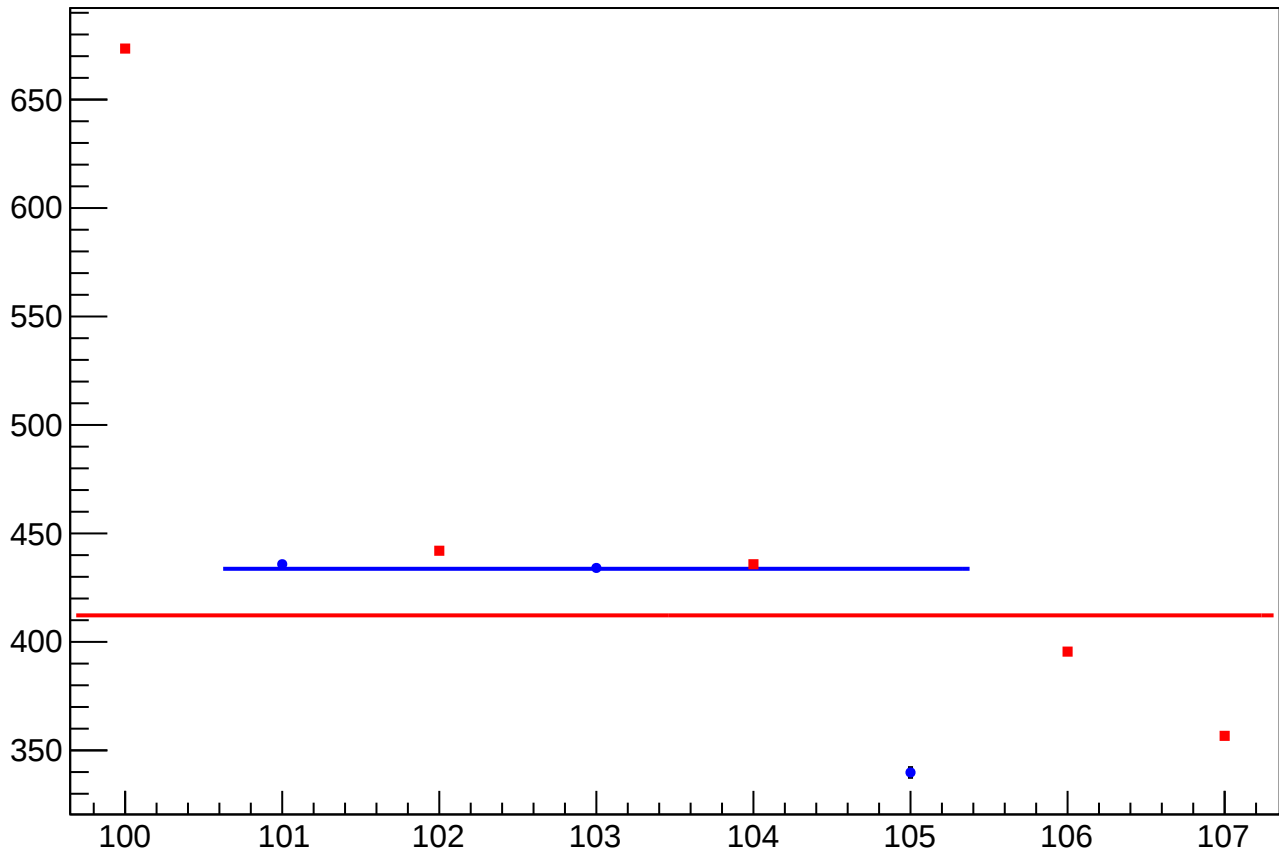
Right Out: -232.714+/-314.553  $\chi^2/\text{NDF}$ : 5.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

563.506+/-402.696  $\chi^2/\text{NDF}$ : 1.5/2

-232.714+/-314.553  $\chi^2/\text{NDF}$ : 5.7/4

# asym\_sam\_13\_57\_dd\_rms vs slug



Right In: 433.697 $\pm$ 0.285  $\chi^2$ /NDF: 1482.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

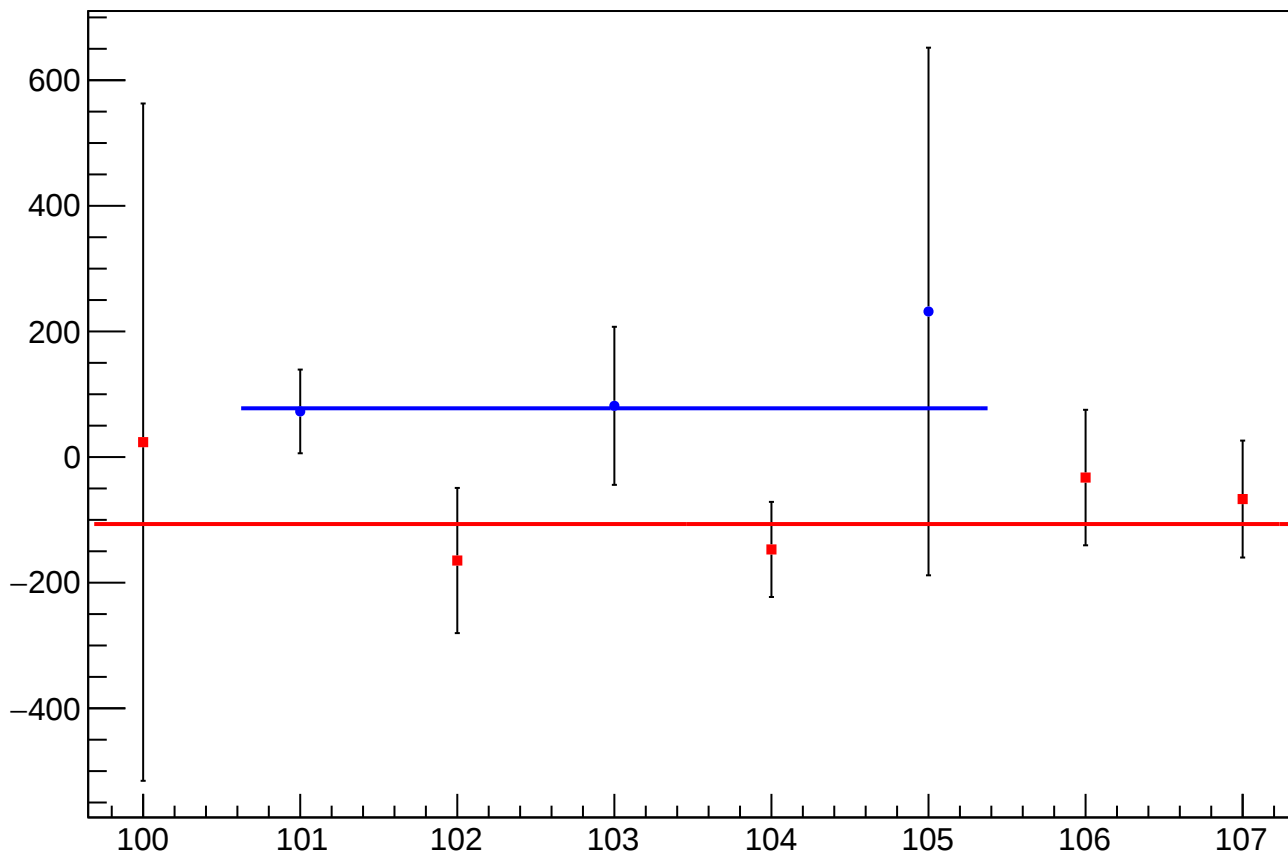
433.697 $\pm$ 0.285  $\chi^2$ /NDF: 1482.7/2

Right Out: 412.230 $\pm$ 0.222  $\chi^2$ /NDF: 47142.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

412.230 $\pm$ 0.222  $\chi^2$ /NDF: 47142.7/4

# reg\_asym\_sam\_15\_37\_dd\_mean vs slug



Right In: 77.638+/-58.314  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

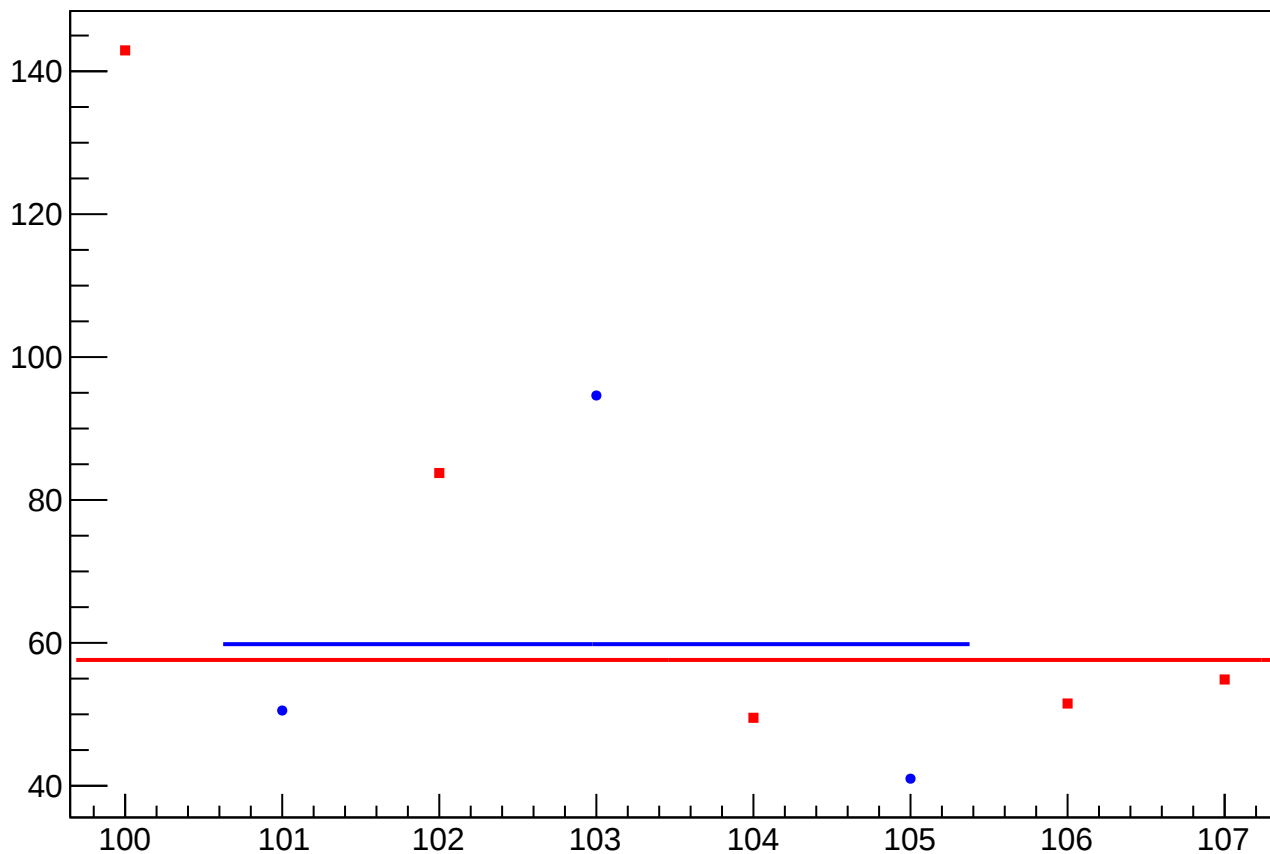
Right Out: -106.647+/-46.926  $\chi^2/\text{NDF}$ : 1.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

77.638+/-58.314  $\chi^2/\text{NDF}$ : 0.1/2

-106.647+/-46.926  $\chi^2/\text{NDF}$ : 1.2/4

# reg\_asym\_sam\_15\_37\_dd\_rms vs slug



Right In: 59.820+/-0.041  $\chi^2/\text{NDF}$ : 195868.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

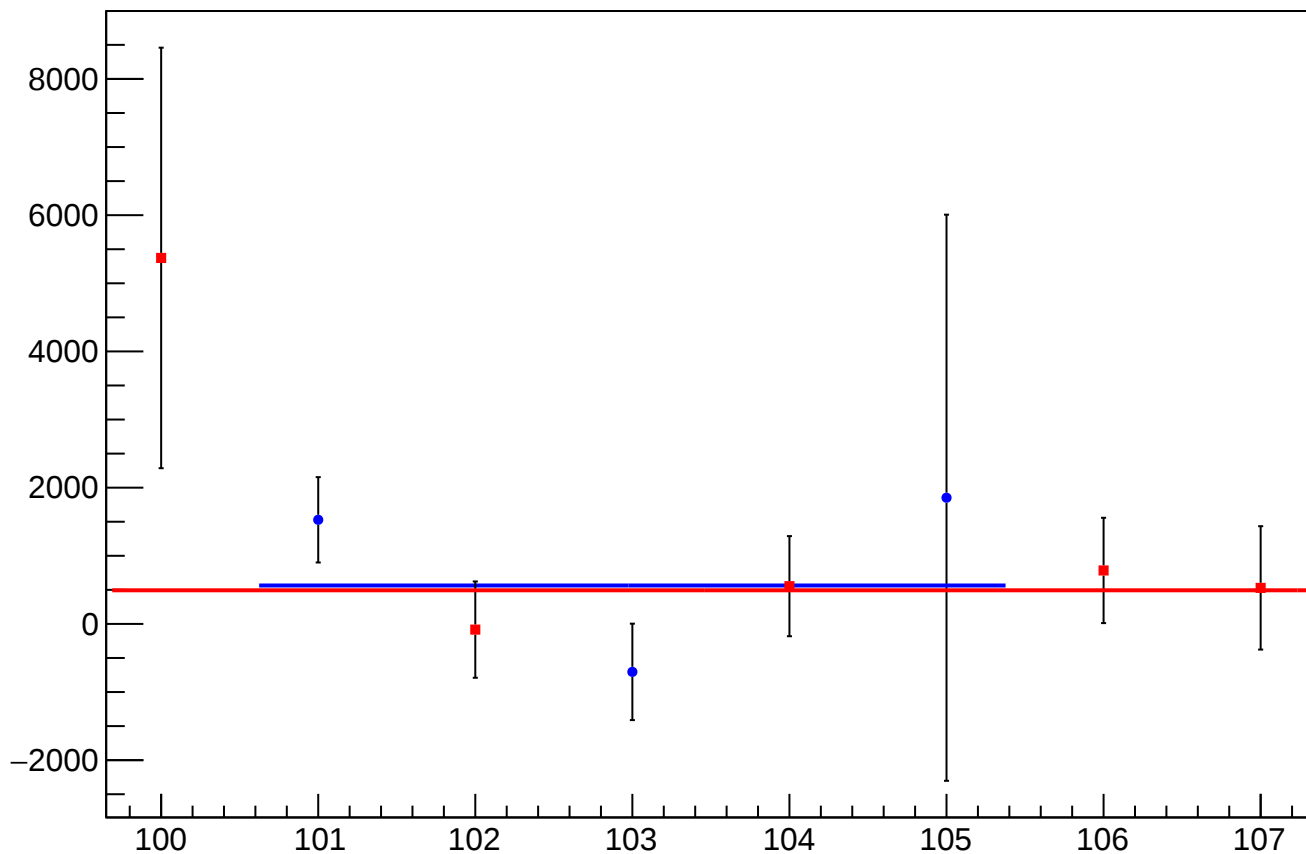
Right Out: 57.611+/-0.033  $\chi^2/\text{NDF}$ : 183527.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

59.820+/-0.041  $\chi^2/\text{NDF}$ : 195868.2/2

57.611+/-0.033  $\chi^2/\text{NDF}$ : 183527.1/4

# asym\_sam\_15\_37\_dd\_correction\_mean vs slug



Right In: 563.997 $\pm$ 466.136  $\chi^2$ /NDF: 5.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

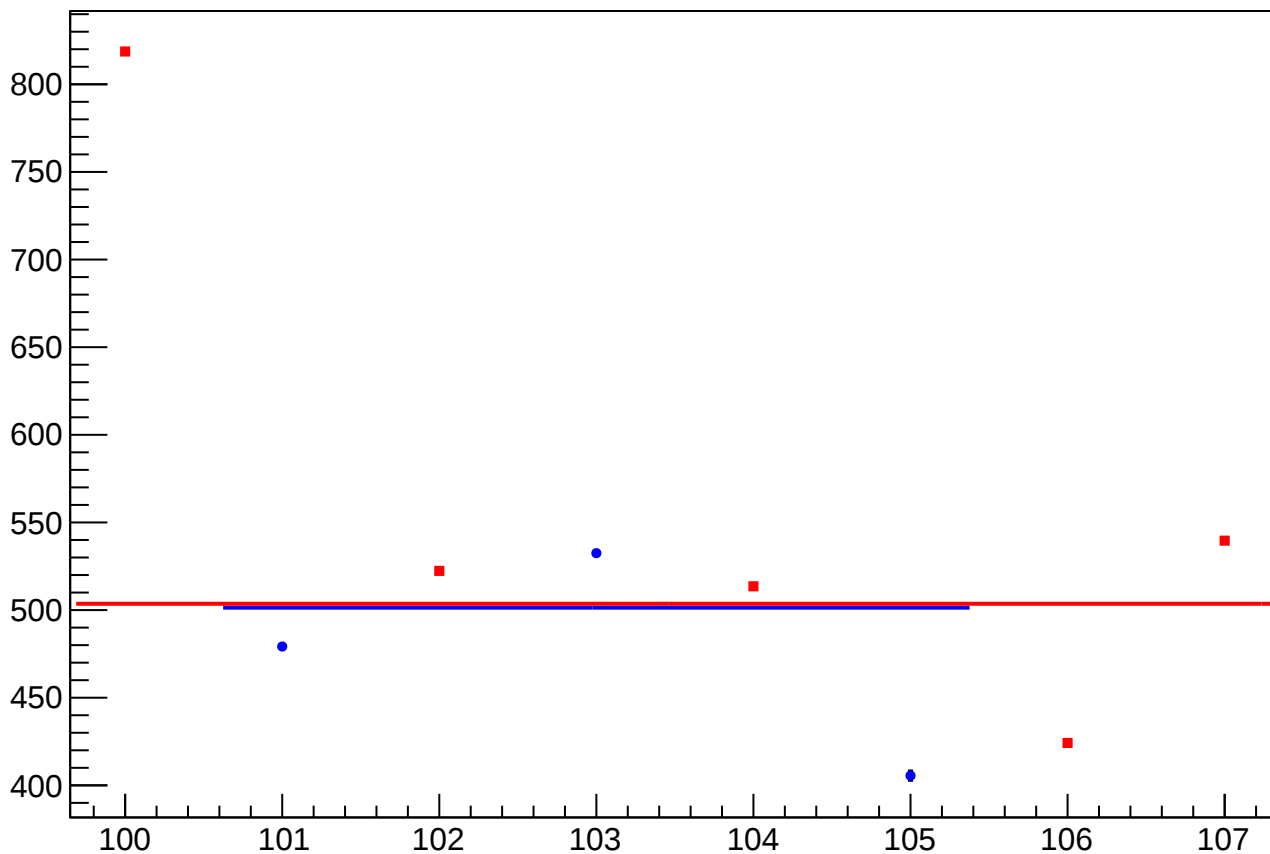
Right Out: 493.539 $\pm$ 382.036  $\chi^2$ /NDF: 3.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

563.997 $\pm$ 466.136  $\chi^2$ /NDF: 5.7/2

493.539 $\pm$ 382.036  $\chi^2$ /NDF: 3.3/4

# asym\_sam\_15\_37\_dd\_correction\_rms vs slug



Right In: 501.388 $\pm$ 0.330  $\chi^2$ /NDF: 7430.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

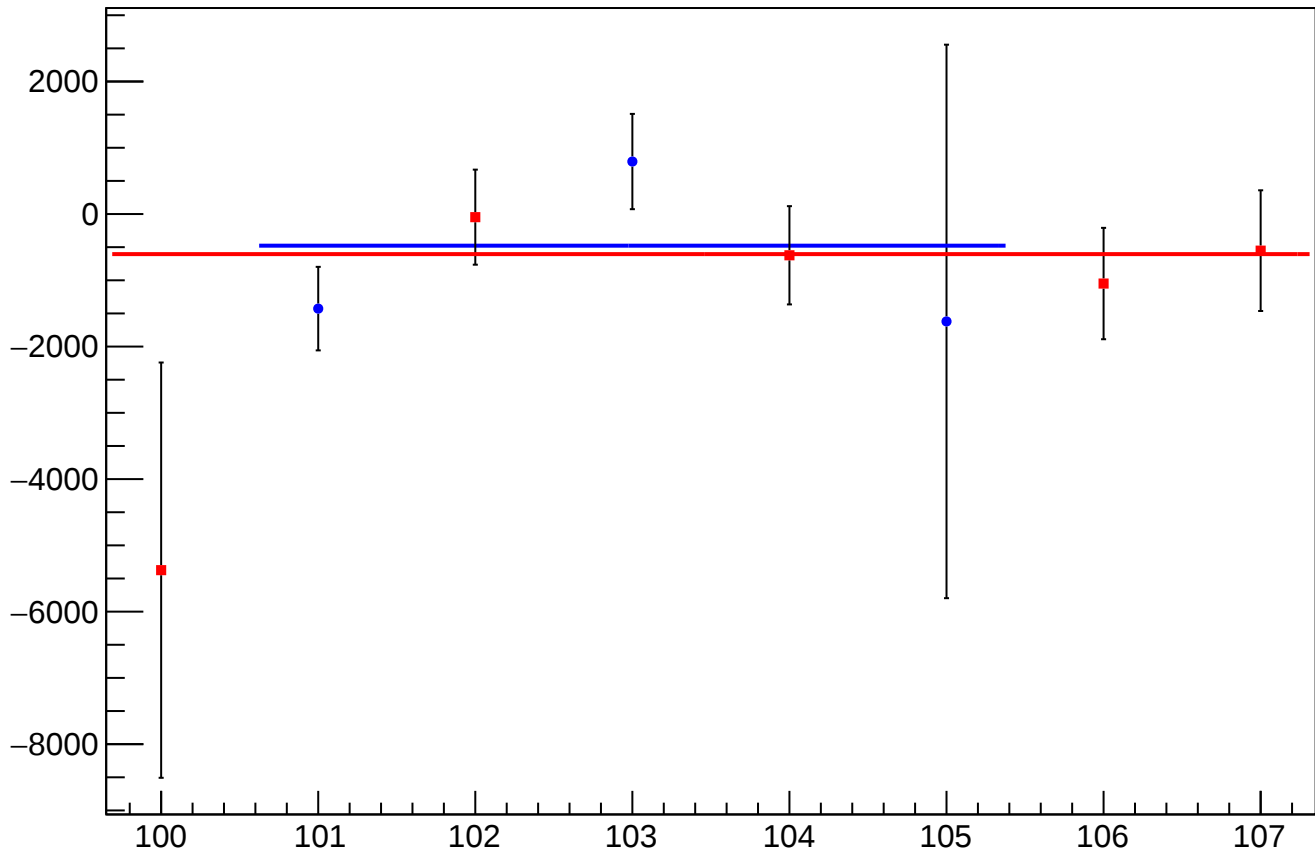
501.388 $\pm$ 0.330  $\chi^2$ /NDF: 7430.1/2

Right Out: 503.610 $\pm$ 0.270  $\chi^2$ /NDF: 46903.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

503.610 $\pm$ 0.270  $\chi^2$ /NDF: 46903.8/4

# asym\_sam\_15\_37\_dd\_mean vs slug



Right In: -477.444+/-470.932  $\chi^2$ /NDF: 5.5/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

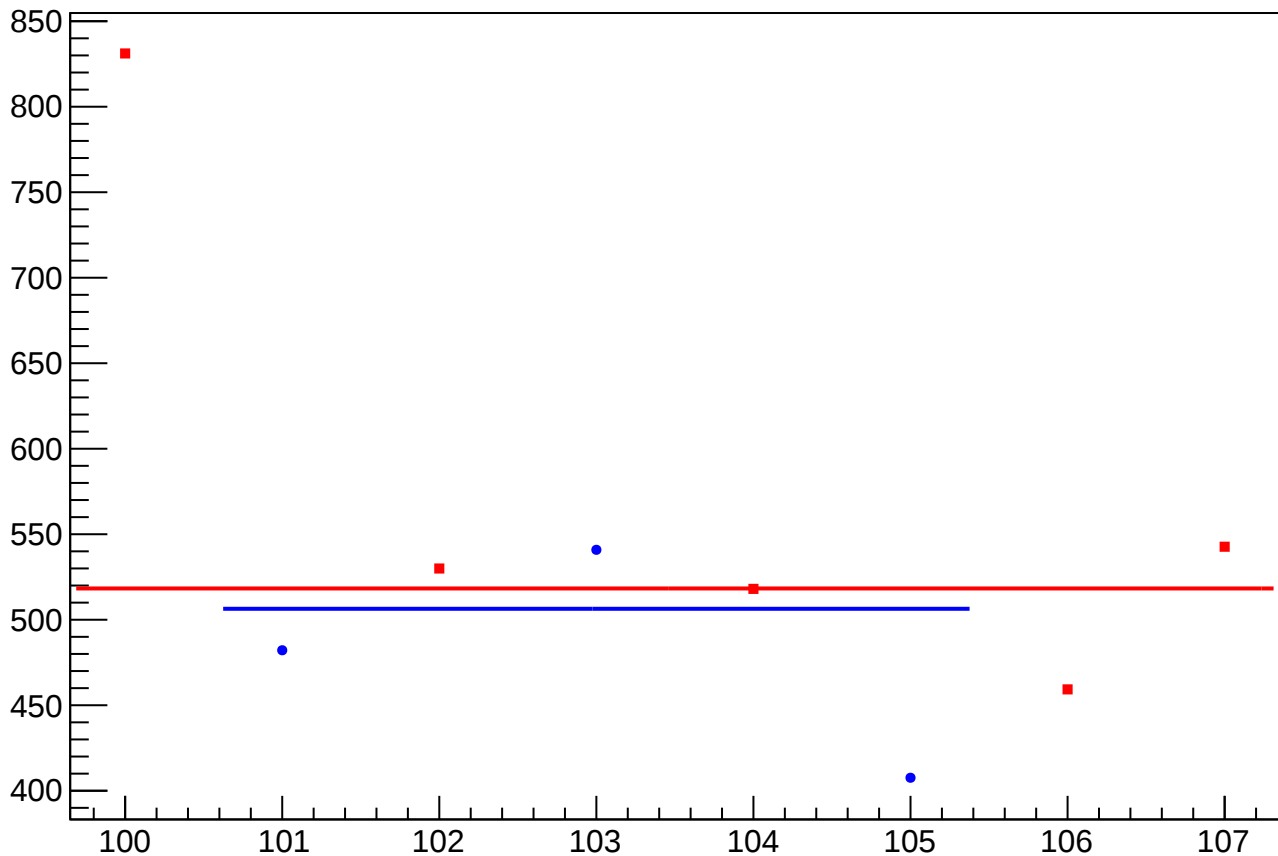
-477.444+/-470.932  $\chi^2$ /NDF: 5.5/2

Right Out: -604.732+/-392.636  $\chi^2$ /NDF: 3.2/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-604.732+/-392.636  $\chi^2$ /NDF: 3.2/4

# asym\_sam\_15\_37\_dd\_rms vs slug



Right In: 506.408+/-0.333  $\chi^2/\text{NDF}$ : 8682.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

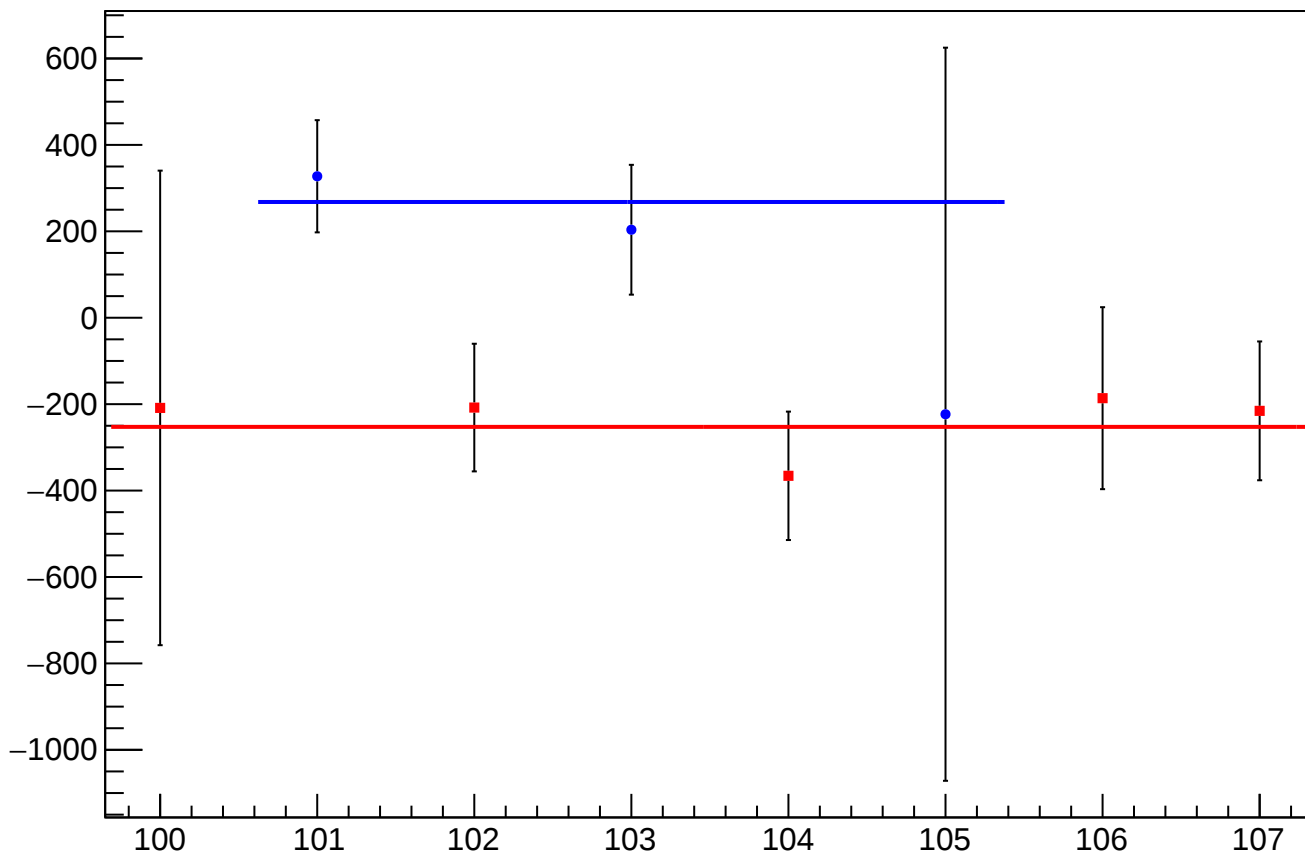
506.408+/-0.333  $\chi^2/\text{NDF}$ : 8682.0/2

Right Out: 518.284+/-0.278  $\chi^2/\text{NDF}$ : 31768.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

518.284+/-0.278  $\chi^2/\text{NDF}$ : 31768.5/4

reg\_asym\_sam\_24\_68\_dd\_mean vs slug



Right In: 267.890 $\pm$ 97.581  $\chi^2$ /NDF: 0.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

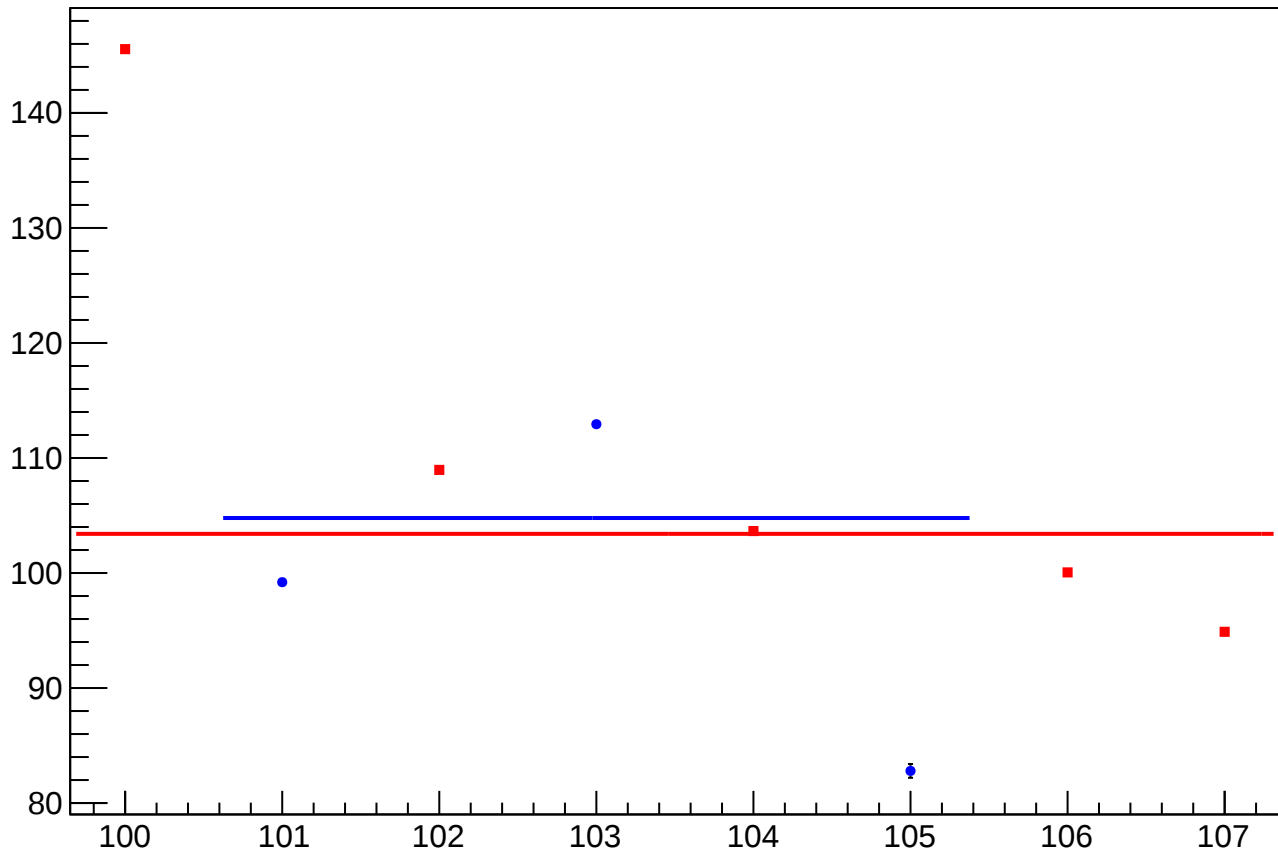
Right Out: -252.577 $\pm$ 80.129  $\chi^2$ /NDF: 0.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

267.890 $\pm$ 97.581  $\chi^2$ /NDF: 0.7/2

-252.577 $\pm$ 80.129  $\chi^2$ /NDF: 0.8/4

# reg\_asym\_sam\_24\_68\_dd\_rms vs slug



Right In: 104.782 $\pm$ 0.069  $\chi^2$ /NDF: 10933.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

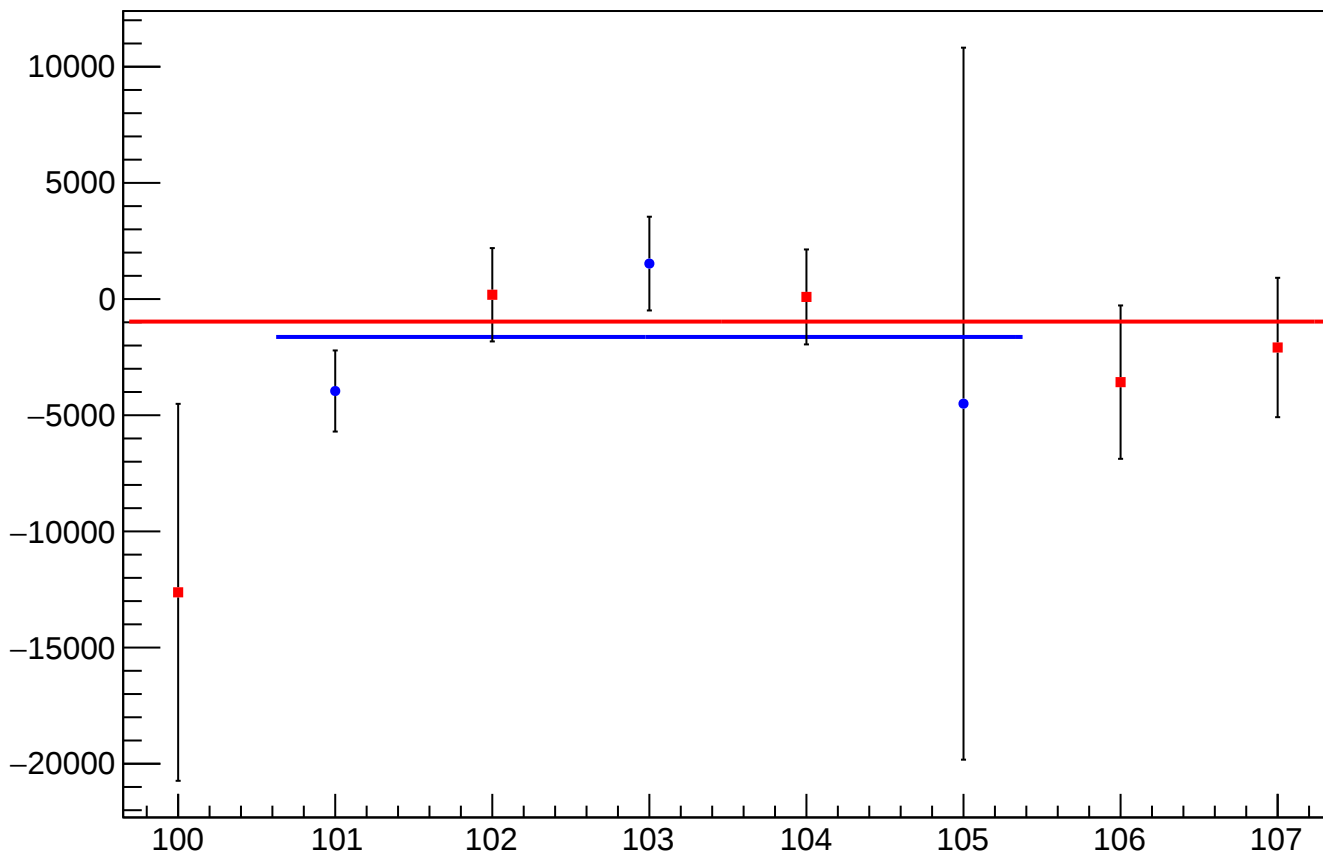
104.782 $\pm$ 0.069  $\chi^2$ /NDF: 10933.3/2

Right Out: 103.405 $\pm$ 0.057  $\chi^2$ /NDF: 20746.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

103.405 $\pm$ 0.057  $\chi^2$ /NDF: 20746.7/4

# asym\_sam\_24\_68\_dd\_correction\_mean vs slug



Right In: -1630.779+/-1315.111  $\chi^2$ /NDF: 4.3/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

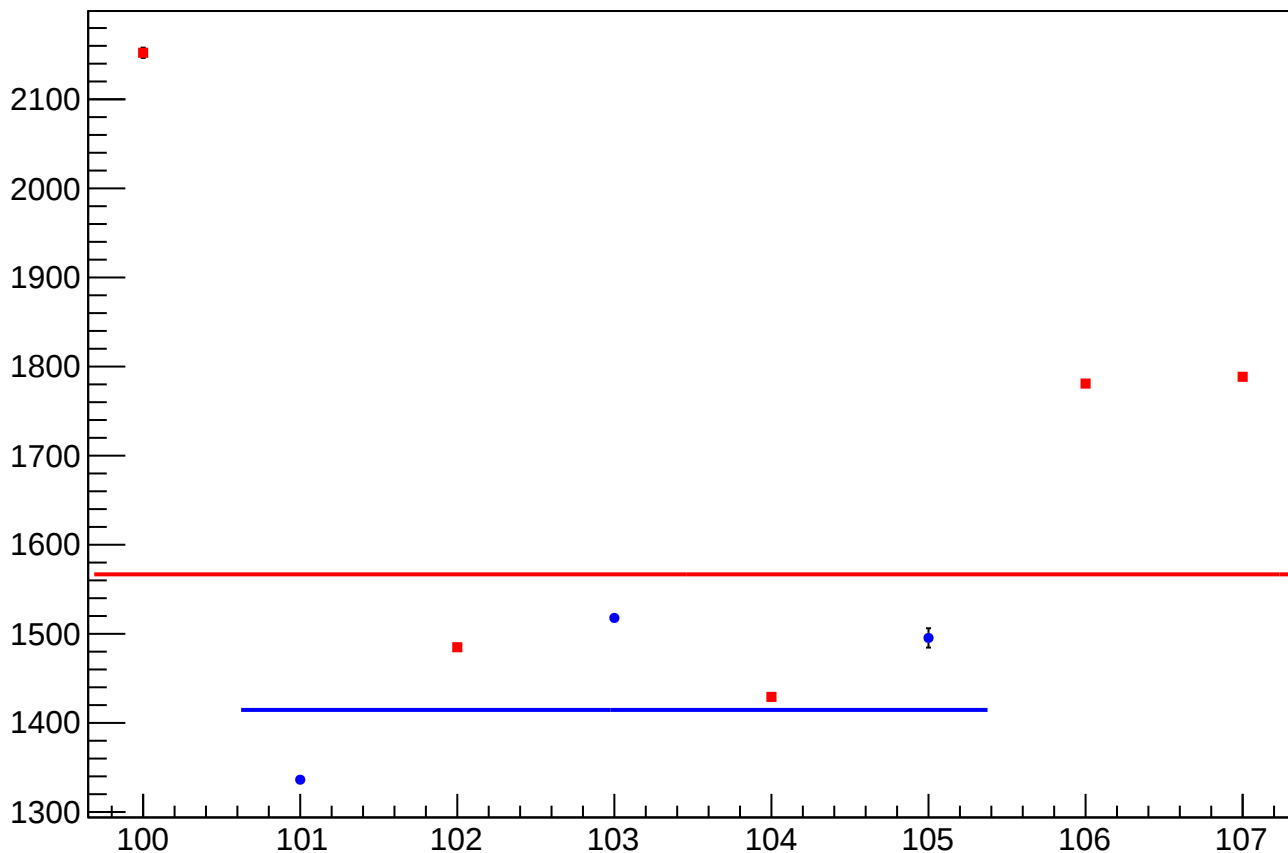
Right Out: -969.303+/-1190.672  $\chi^2$ /NDF: 3.4/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1630.779+/-1315.111  $\chi^2$ /NDF: 4.3/2

-969.303+/-1190.672  $\chi^2$ /NDF: 3.4/4

# asym\_sam\_24\_68\_dd\_correction\_rms vs slug



Right In: 1414.596 $\pm$ 0.930  $\chi^2$ /NDF: 9319.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

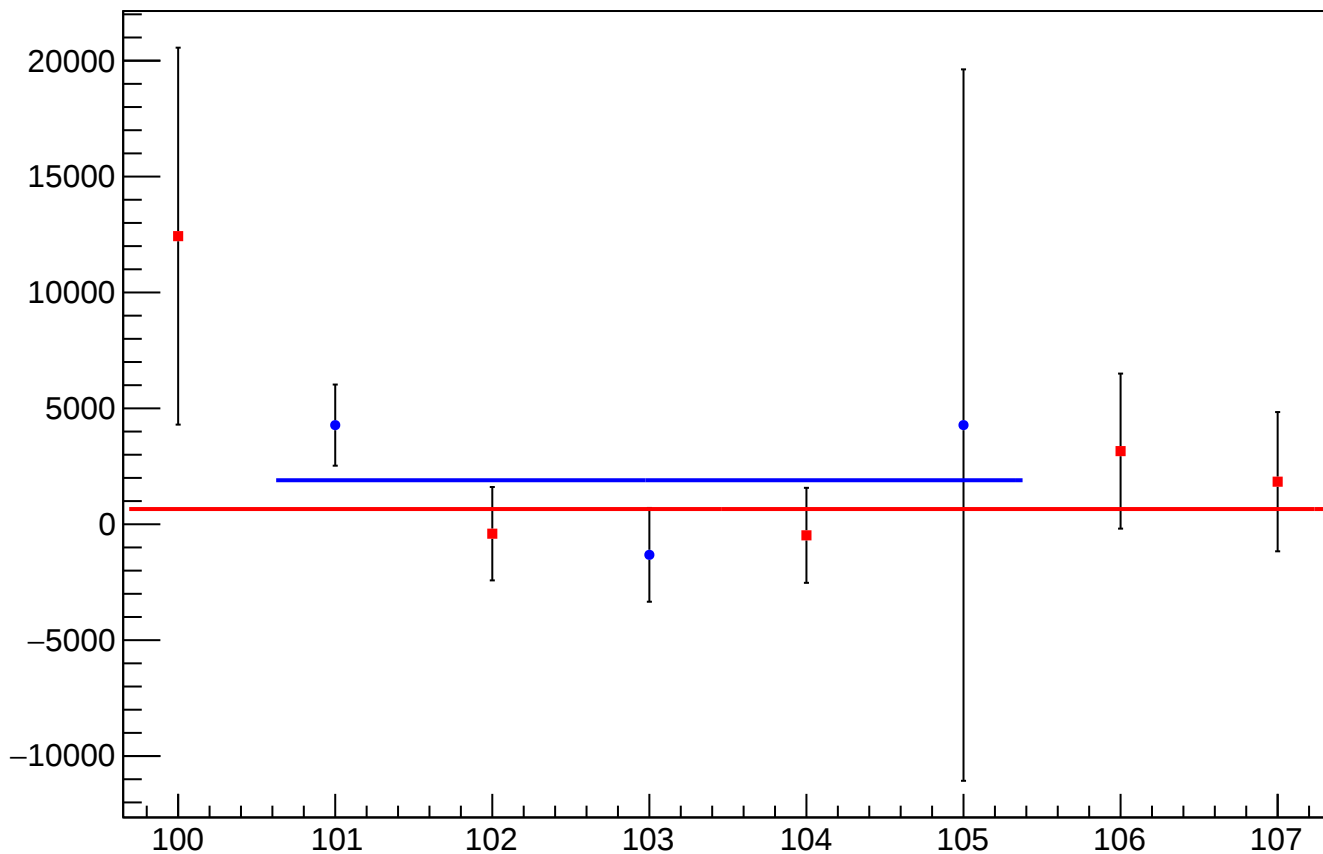
1414.596 $\pm$ 0.930  $\chi^2$ /NDF: 9319.9/2

Right Out: 1566.771 $\pm$ 0.842  $\chi^2$ /NDF: 42145.3/4

1566.771 $\pm$ 0.842  $\chi^2$ /NDF: 42145.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_24\_68\_dd\_mean vs slug



Right In: 1899.248+/-1318.777  $\chi^2/\text{NDF}$ : 4.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

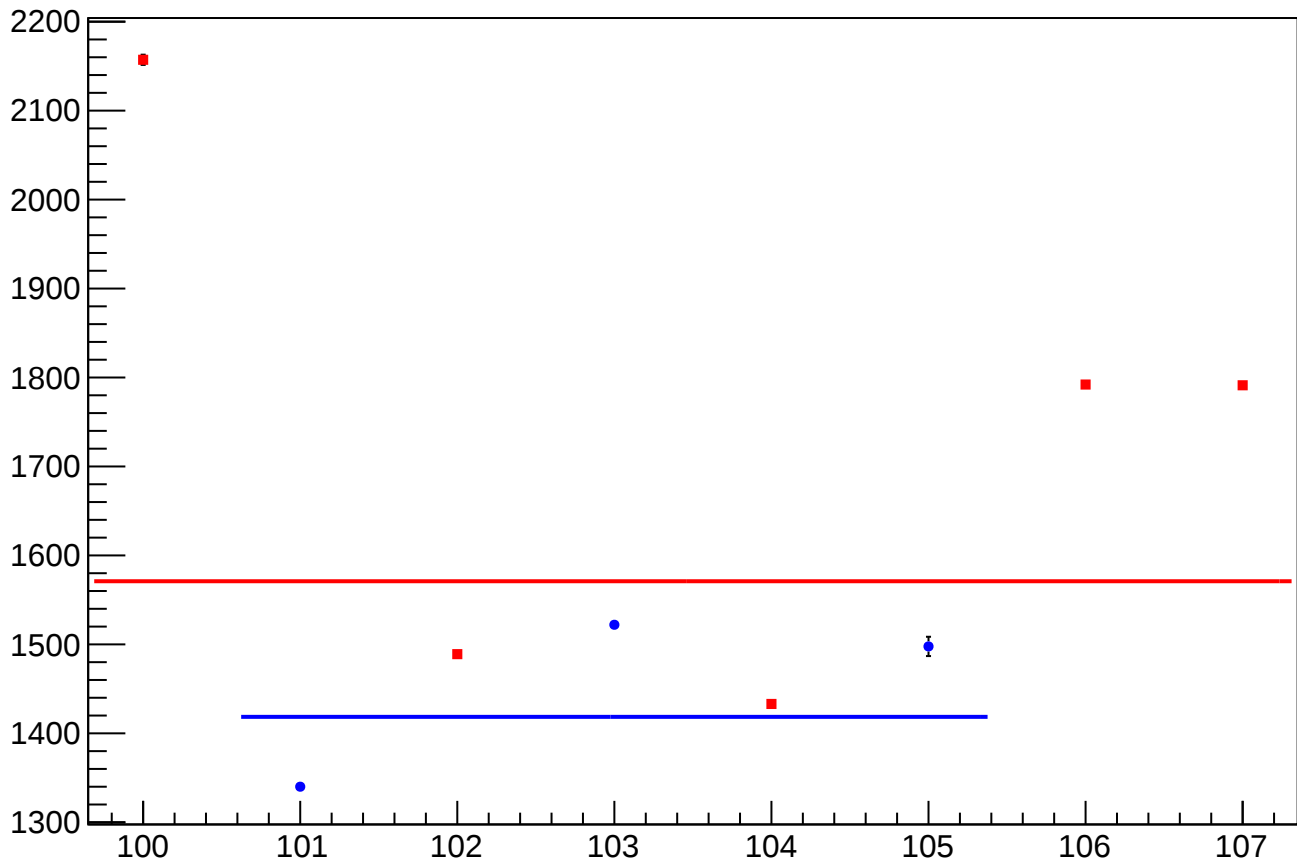
Right Out: 656.893+/-1195.275  $\chi^2/\text{NDF}$ : 3.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1899.248+/-1318.777  $\chi^2/\text{NDF}$ : 4.4/2

656.893+/-1195.275  $\chi^2/\text{NDF}$ : 3.4/4

# asym\_sam\_24\_68\_dd\_rms vs slug



Right In: 1418.540 $\pm$ 0.933  $\chi^2$ /NDF: 9314.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

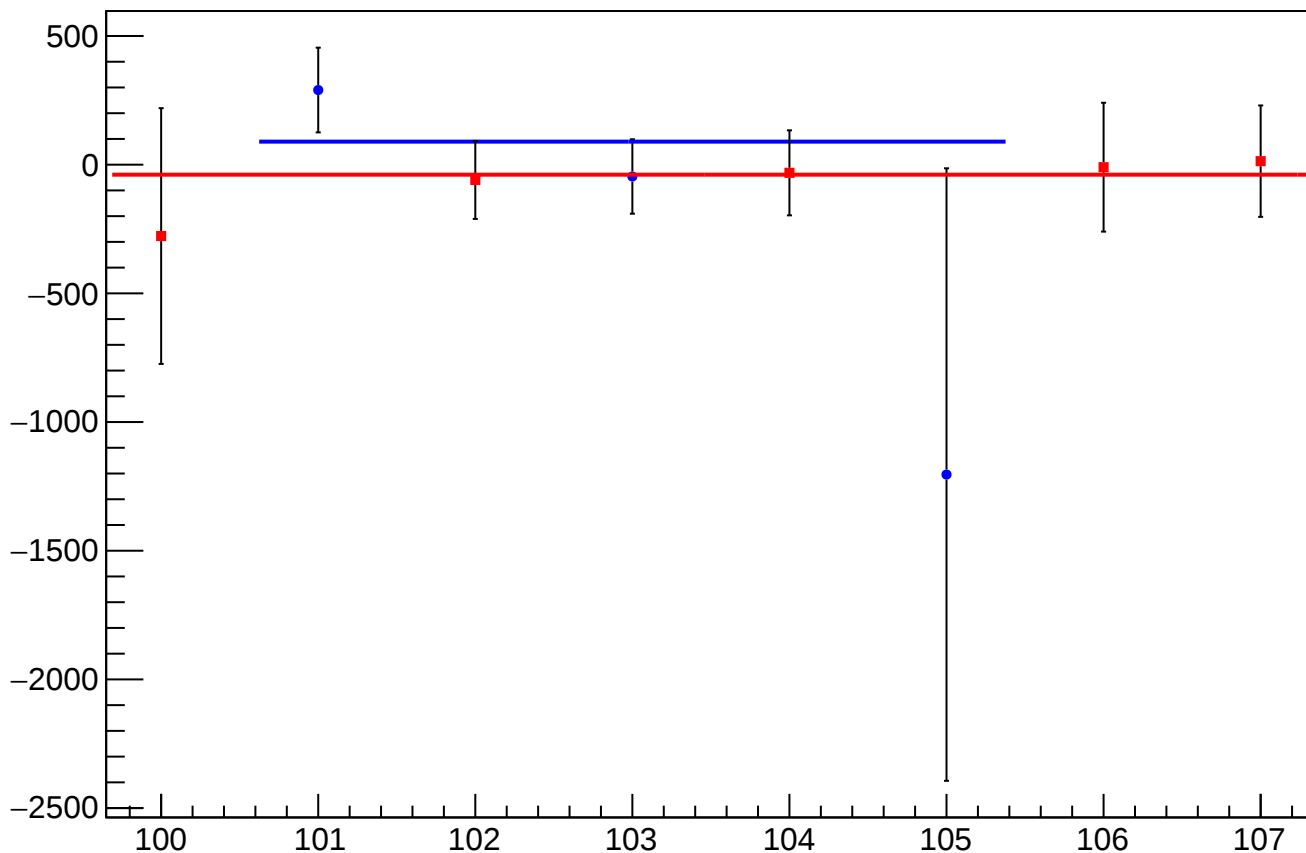
Right Out: 1570.980 $\pm$ 0.845  $\chi^2$ /NDF: 42264.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1418.540 $\pm$ 0.933  $\chi^2$ /NDF: 9314.0/2

1570.980 $\pm$ 0.845  $\chi^2$ /NDF: 42264.2/4

# reg\_asym\_sam\_26\_48\_dd\_mean vs slug



Right In: 89.568+/-108.162  $\chi^2/\text{NDF}$ : 3.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

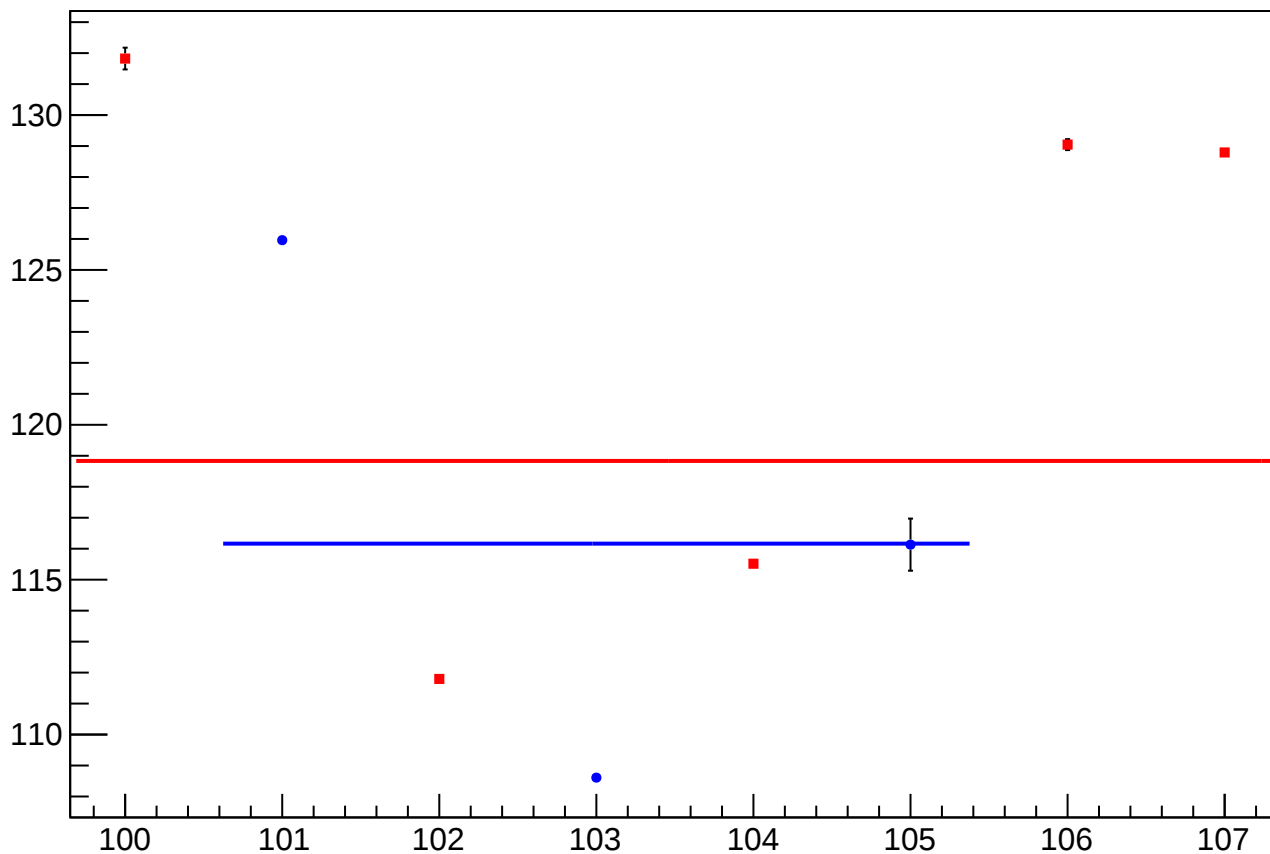
Right Out: -38.902+/-90.694  $\chi^2/\text{NDF}$ : 0.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

89.568+/-108.162  $\chi^2/\text{NDF}$ : 3.5/2

-38.902+/-90.694  $\chi^2/\text{NDF}$ : 0.3/4

# reg\_asym\_sam\_26\_48\_dd\_rms vs slug



Right In: 116.164 $\pm$ 0.076  $\chi^2$ /NDF: 12548.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

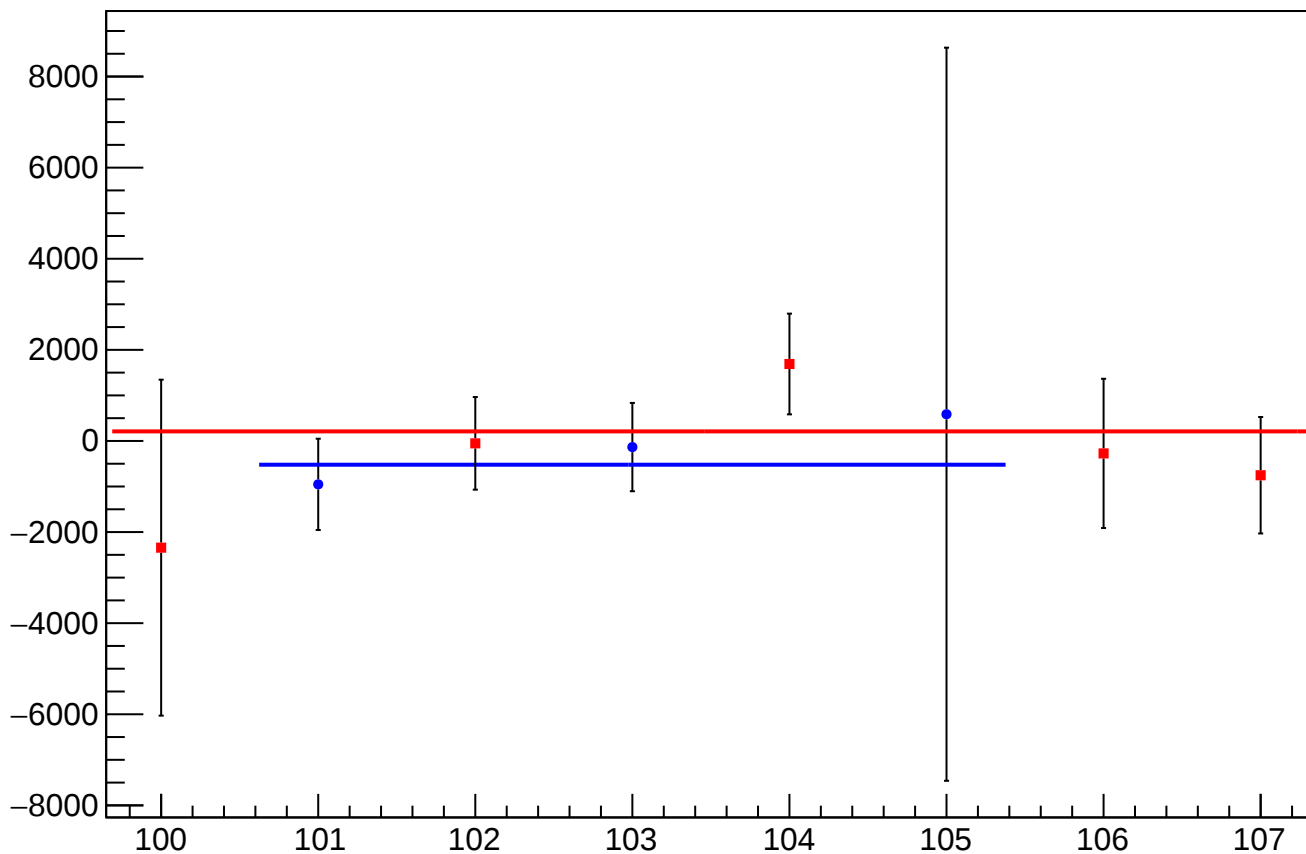
Right Out: 118.834 $\pm$ 0.064  $\chi^2$ /NDF: 14051.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

116.164 $\pm$ 0.076  $\chi^2$ /NDF: 12548.8/2

118.834 $\pm$ 0.064  $\chi^2$ /NDF: 14051.8/4

# asym\_sam\_26\_48\_dd\_correction\_mean vs slug



Right In: -521.687+/-693.969  $\chi^2$ /NDF: 0.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

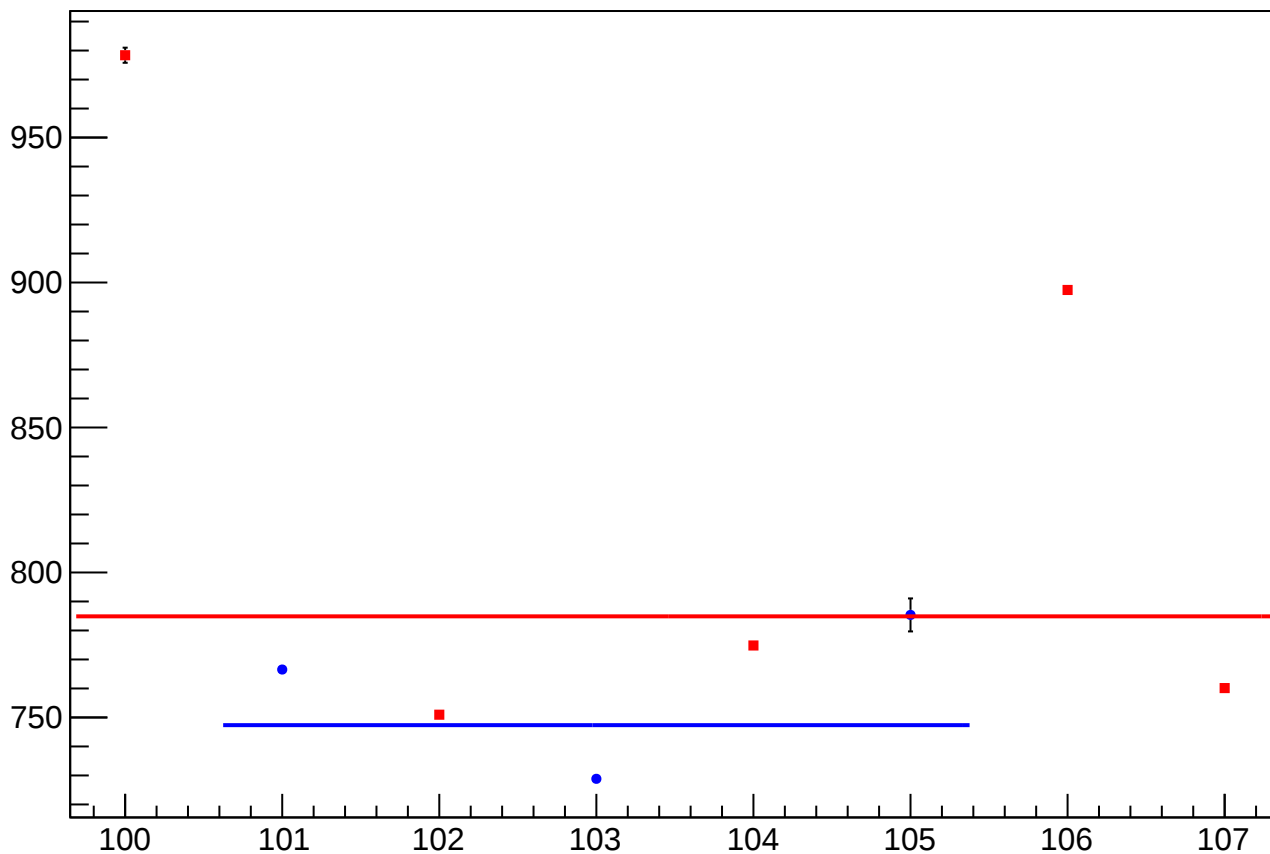
Right Out: 209.770+/-592.996  $\chi^2$ /NDF: 3.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-521.687+/-693.969  $\chi^2$ /NDF: 0.4/2

209.770+/-592.996  $\chi^2$ /NDF: 3.0/4

# asym\_sam\_26\_48\_dd\_correction\_rms vs slug



Right In: 747.349+/-0.491  $\chi^2/\text{NDF}$ : 1507.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

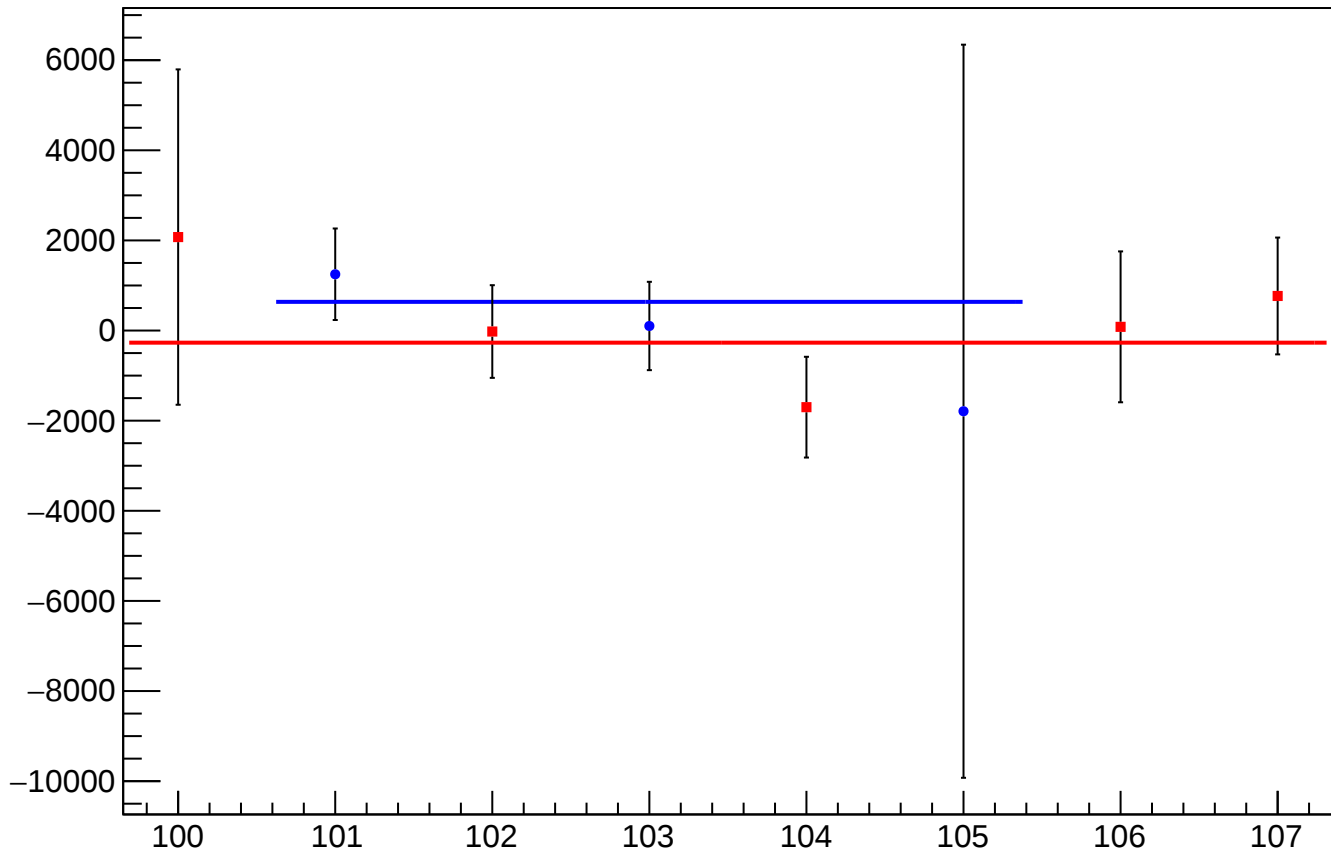
747.349+/-0.491  $\chi^2/\text{NDF}$ : 1507.0/2

Right Out: 784.871+/-0.419  $\chi^2/\text{NDF}$ : 18088.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

784.871+/-0.419  $\chi^2/\text{NDF}$ : 18088.2/4

# asym\_sam\_26\_48\_dd\_mean vs slug



Right In: 636.696 $\pm$ 702.532  $\chi^2$ /NDF: 0.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

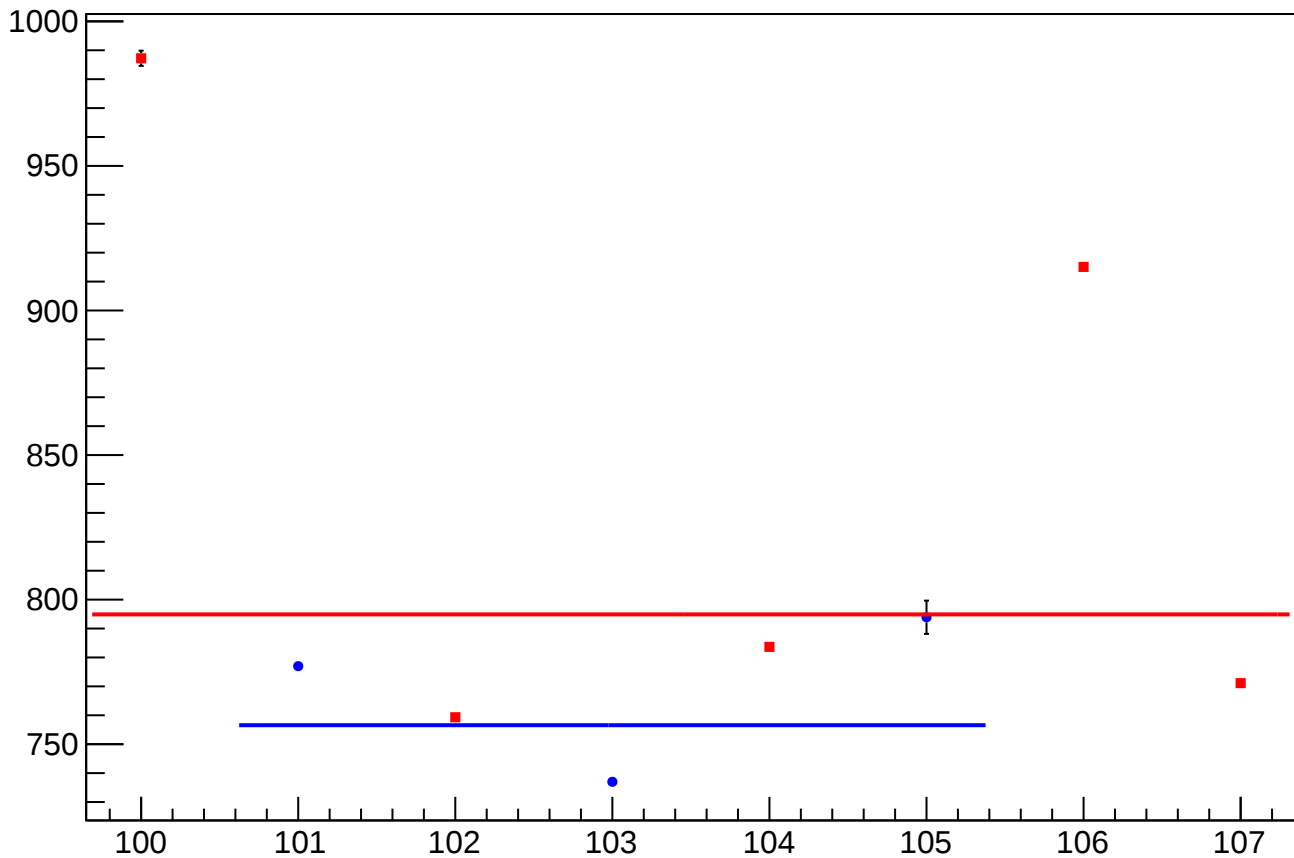
Right Out: -268.978 $\pm$ 600.857  $\chi^2$ /NDF: 2.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

636.696 $\pm$ 702.532  $\chi^2$ /NDF: 0.8/2

-268.978 $\pm$ 600.857  $\chi^2$ /NDF: 2.8/4

# asym\_sam\_26\_48\_dd\_rms vs slug



Right In: 756.568 $\pm$ 0.497  $\chi^2$ /NDF: 1649.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

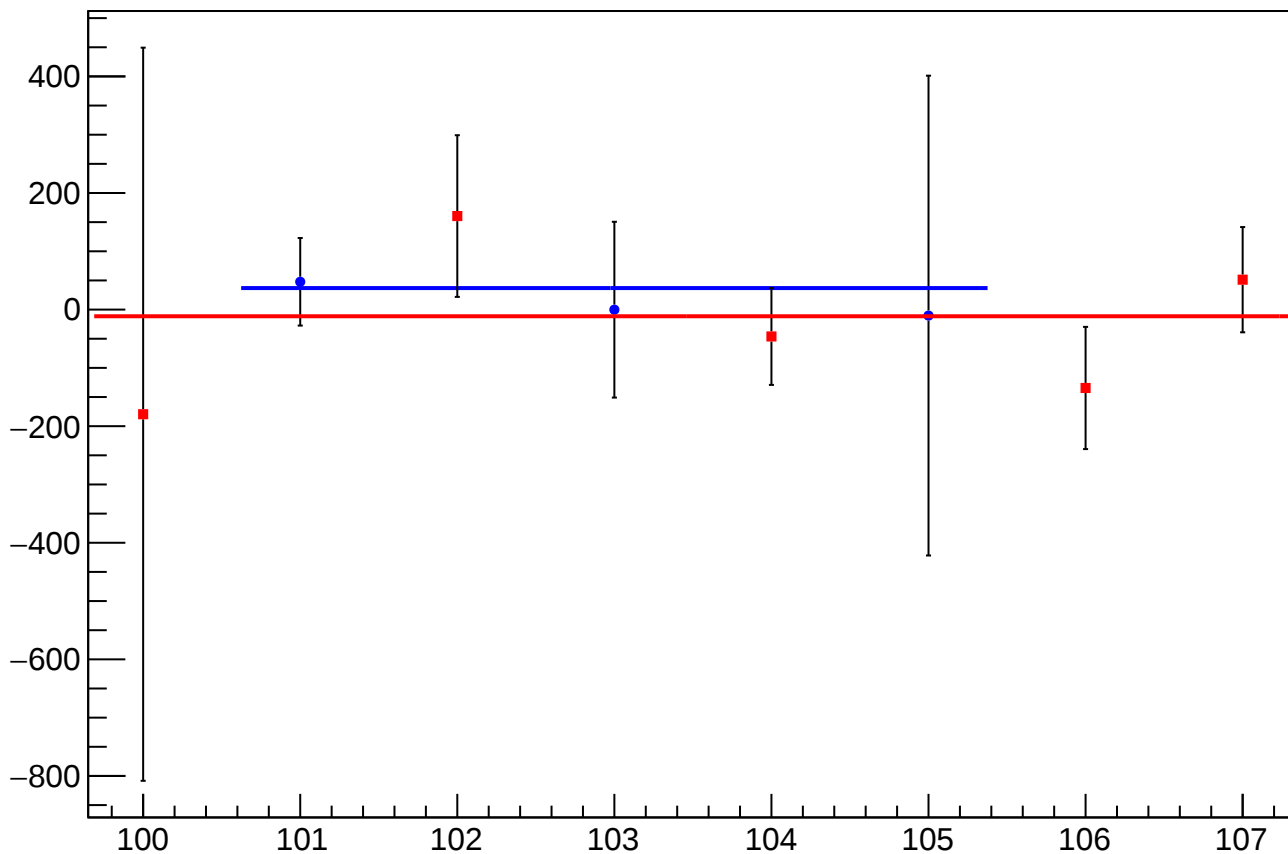
Right Out: 794.890 $\pm$ 0.425  $\chi^2$ /NDF: 18918.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

756.568 $\pm$ 0.497  $\chi^2$ /NDF: 1649.0/2

794.890 $\pm$ 0.425  $\chi^2$ /NDF: 18918.1/4

# reg\_asym\_sam\_1357\_avg\_mean vs slug



Right In: 36.907+/-66.350  $\chi^2/\text{NDF}$ : 0.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

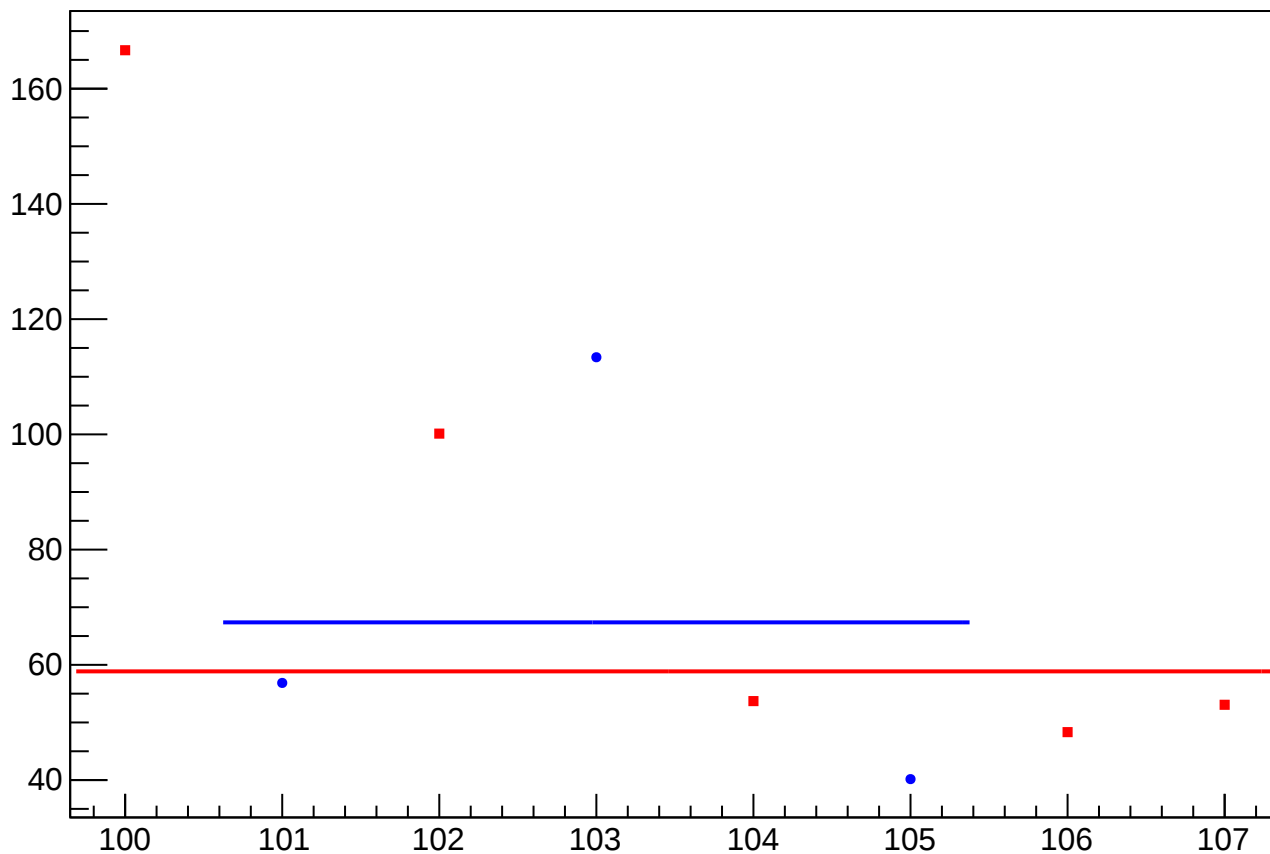
Right Out: -11.456+/-49.204  $\chi^2/\text{NDF}$ : 3.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

36.907+/-66.350  $\chi^2/\text{NDF}$ : 0.1/2

-11.456+/-49.204  $\chi^2/\text{NDF}$ : 3.6/4

# reg\_asym\_sam\_1357\_avg\_rms vs slug



Right In: 67.373+/-0.047  $\chi^2/\text{NDF}$ : 234152.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

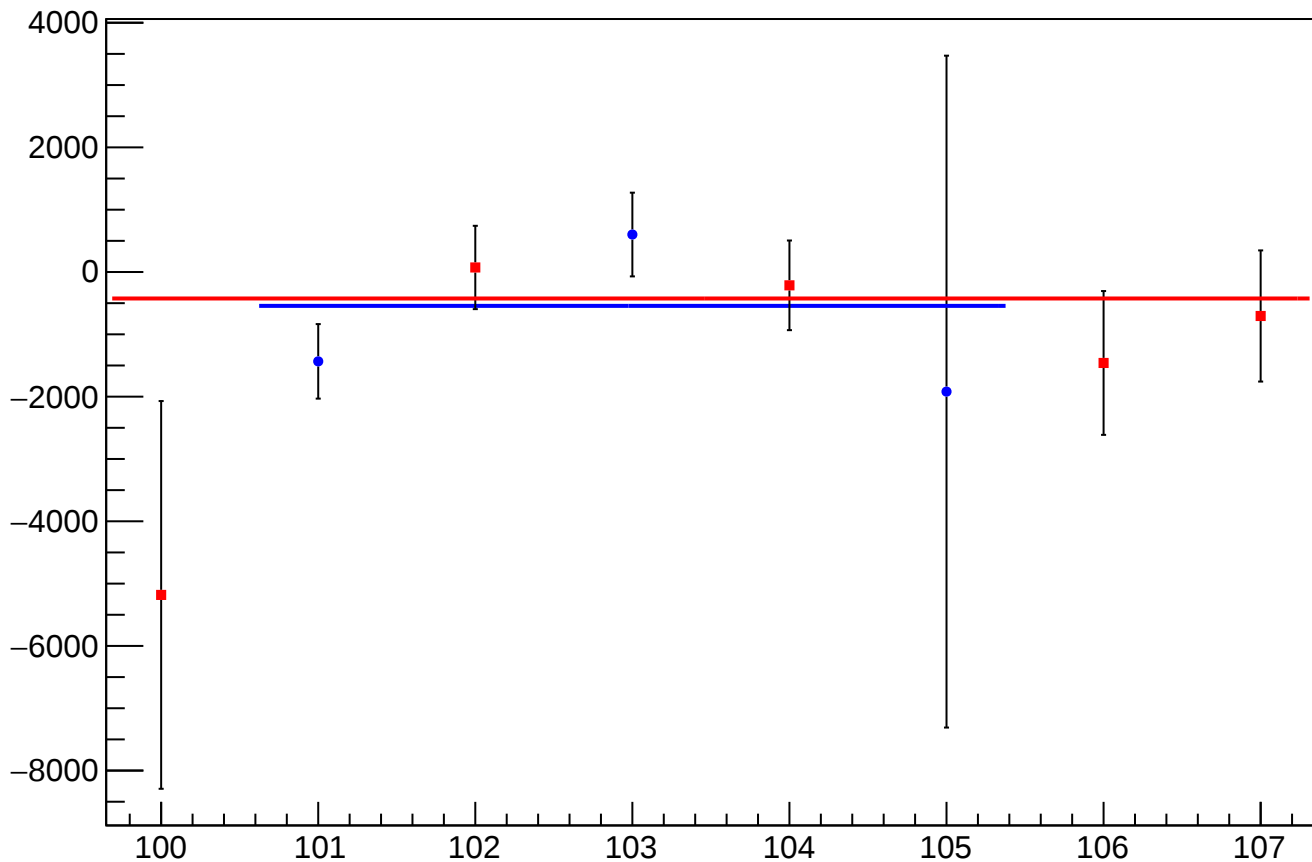
Right Out: 58.867+/-0.035  $\chi^2/\text{NDF}$ : 272063.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

67.373+/-0.047  $\chi^2/\text{NDF}$ : 234152.0/2

58.867+/-0.035  $\chi^2/\text{NDF}$ : 272063.8/4

asym\_sam\_1357\_avg\_correction\_mean vs slug



Right In: -543.343+/-445.147  $\chi^2$ /NDF: 5.2/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

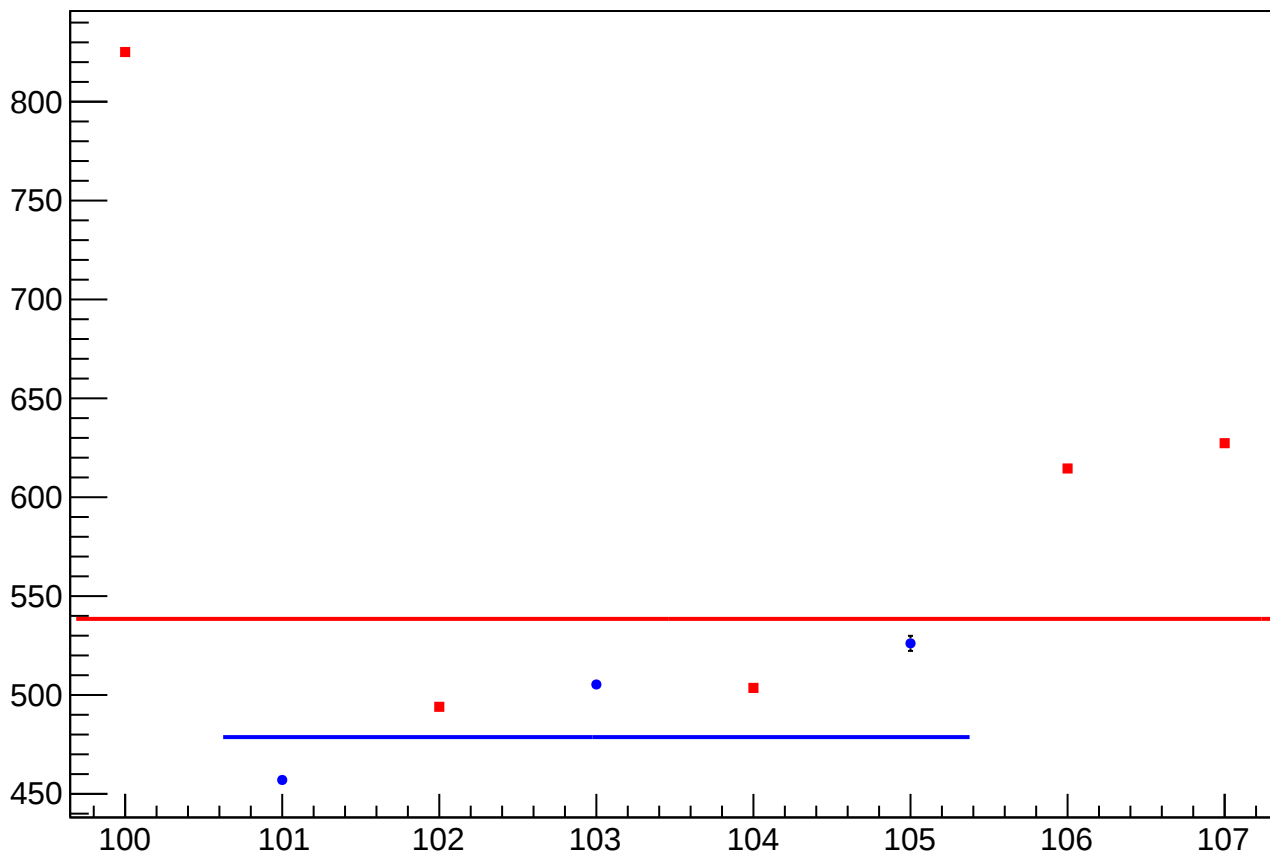
Right Out: -424.862+/-410.725  $\chi^2$ /NDF: 3.9/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-543.343+/-445.147  $\chi^2$ /NDF: 5.2/2

-424.862+/-410.725  $\chi^2$ /NDF: 3.9/4

# asym\_sam\_1357\_avg\_correction\_rms vs slug



Right In: 478.711+/-0.315  $\chi^2/\text{NDF}$ : 5918.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

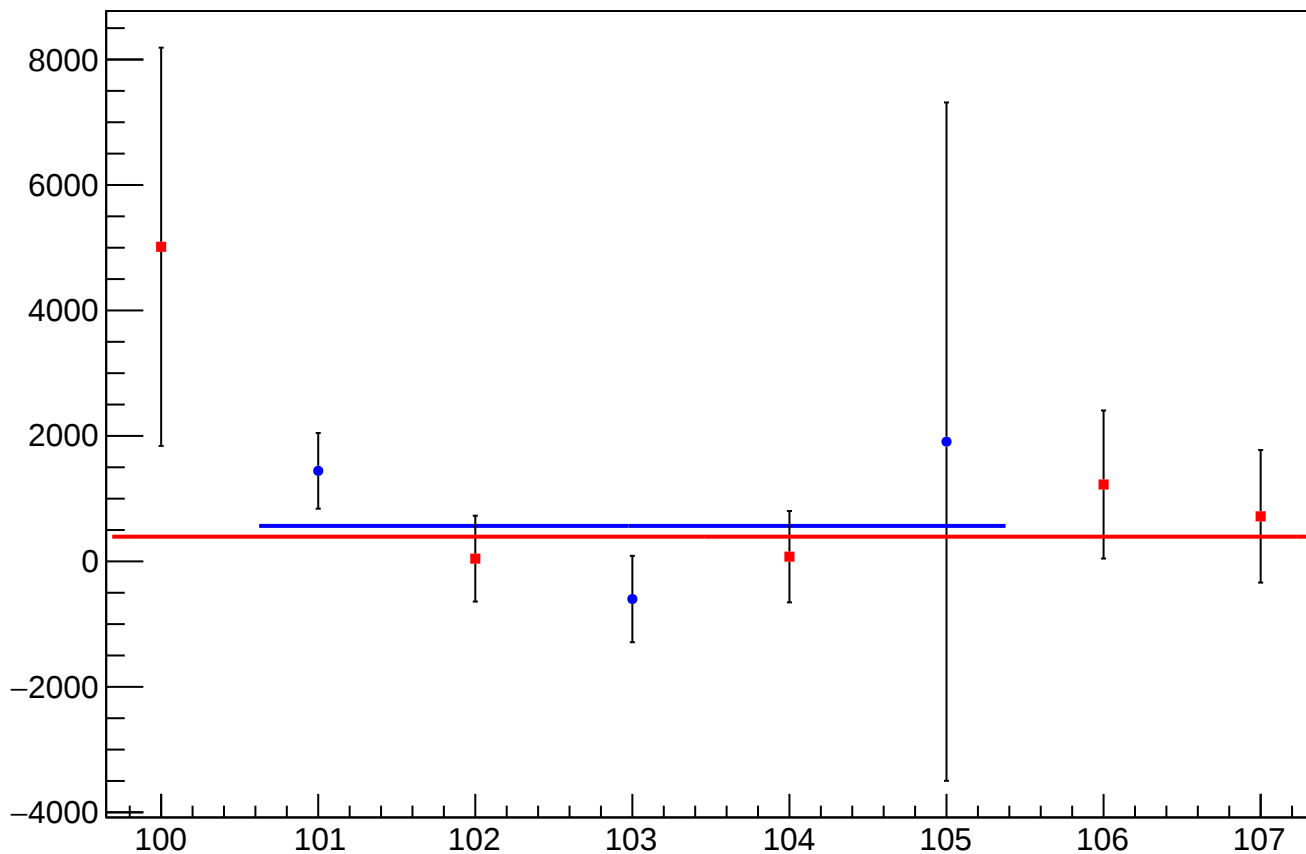
Right Out: 538.491+/-0.290  $\chi^2/\text{NDF}$ : 53470.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

478.711+/-0.315  $\chi^2/\text{NDF}$ : 5918.6/2

538.491+/-0.290  $\chi^2/\text{NDF}$ : 53470.2/4

# asym\_sam\_1357\_avg\_mean vs slug



Right In: 565.653+/-452.143  $\chi^2$ /NDF: 5.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

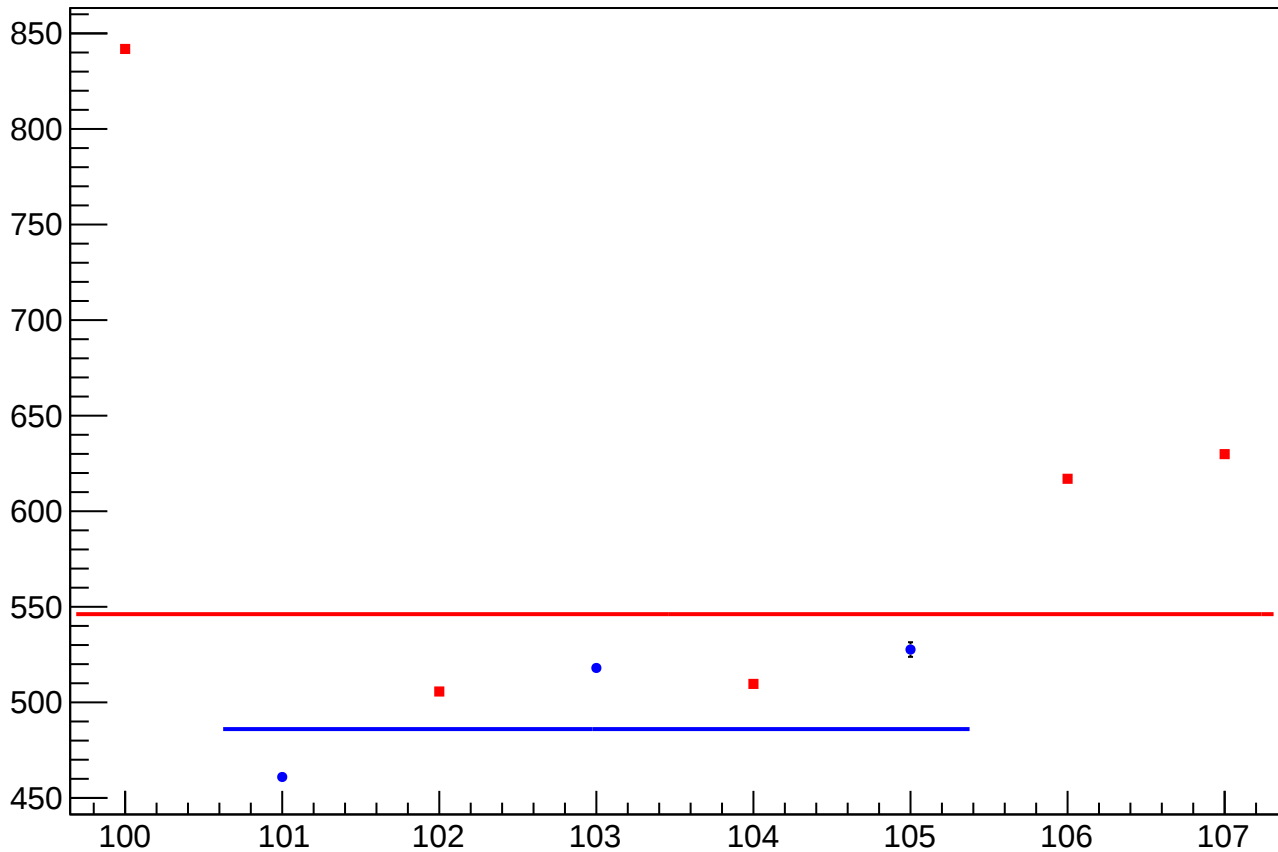
Right Out: 393.627+/-417.638  $\chi^2$ /NDF: 3.2/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

565.653+/-452.143  $\chi^2$ /NDF: 5.0/2

393.627+/-417.638  $\chi^2$ /NDF: 3.2/4

# asym\_sam\_1357\_avg\_rms vs slug



Right In: 486.026+/-0.320  $\chi^2/\text{NDF}$ : 7885.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

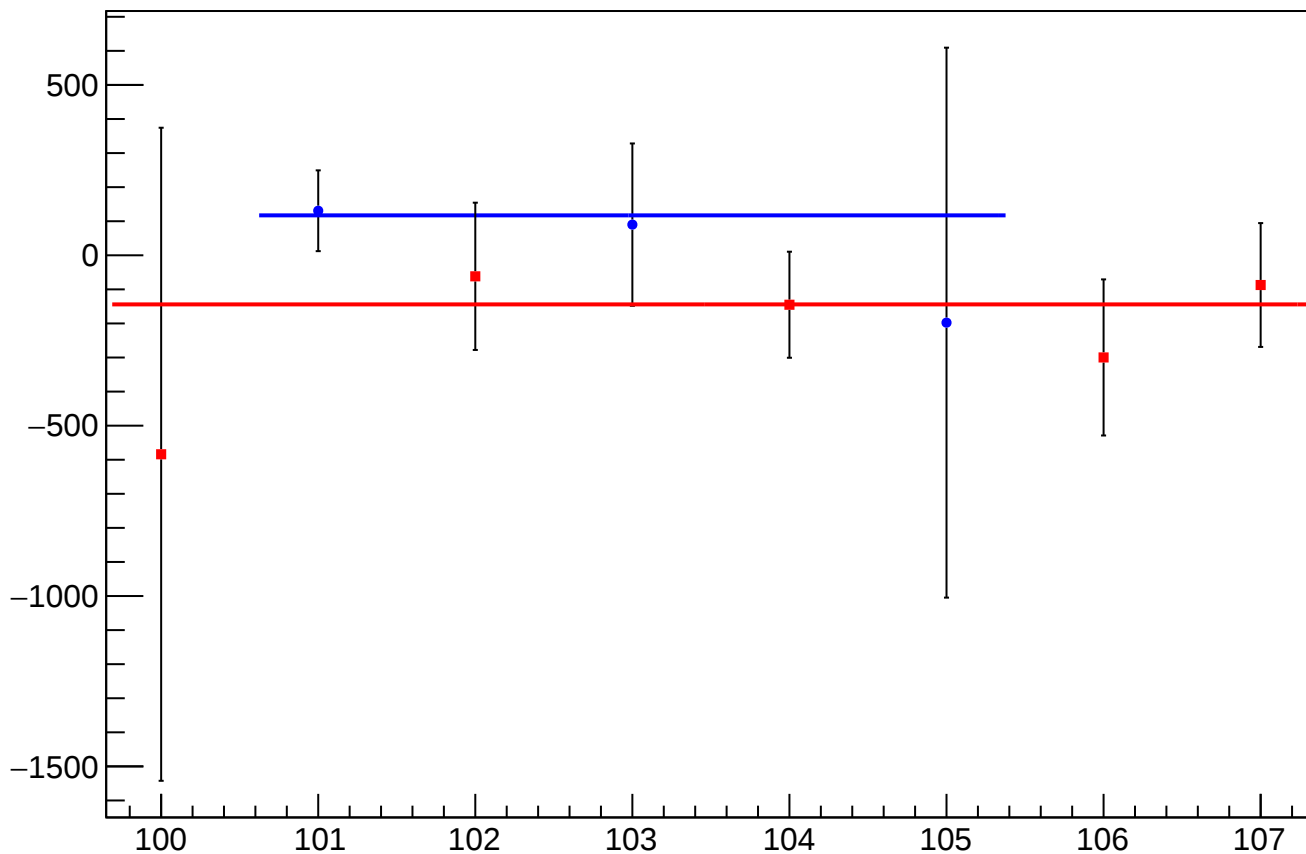
Right Out: 546.156+/-0.295  $\chi^2/\text{NDF}$ : 49131.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

486.026+/-0.320  $\chi^2/\text{NDF}$ : 7885.4/2

546.156+/-0.295  $\chi^2/\text{NDF}$ : 49131.7/4

reg\_asym\_sam\_2468\_avg\_mean vs slug



Right In: 117.226 $\pm$ 105.233  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

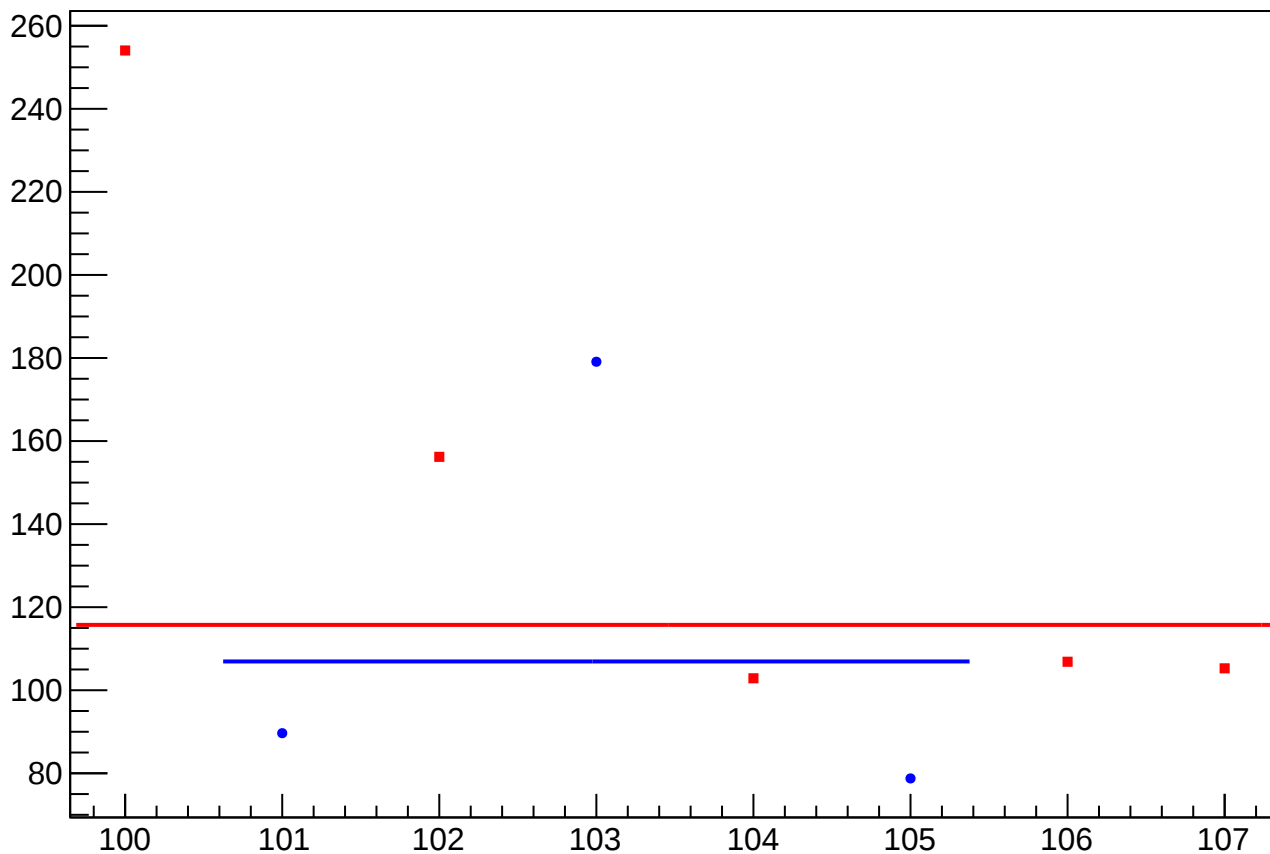
Right Out: -144.092 $\pm$ 94.015  $\chi^2$ /NDF: 0.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

117.226 $\pm$ 105.233  $\chi^2$ /NDF: 0.2/2

-144.092 $\pm$ 94.015  $\chi^2$ /NDF: 0.9/4

# reg\_asym\_sam\_2468\_avg\_rms vs slug



Right In: 106.929+/-0.074  $\chi^2/\text{NDF}$ : 228479.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

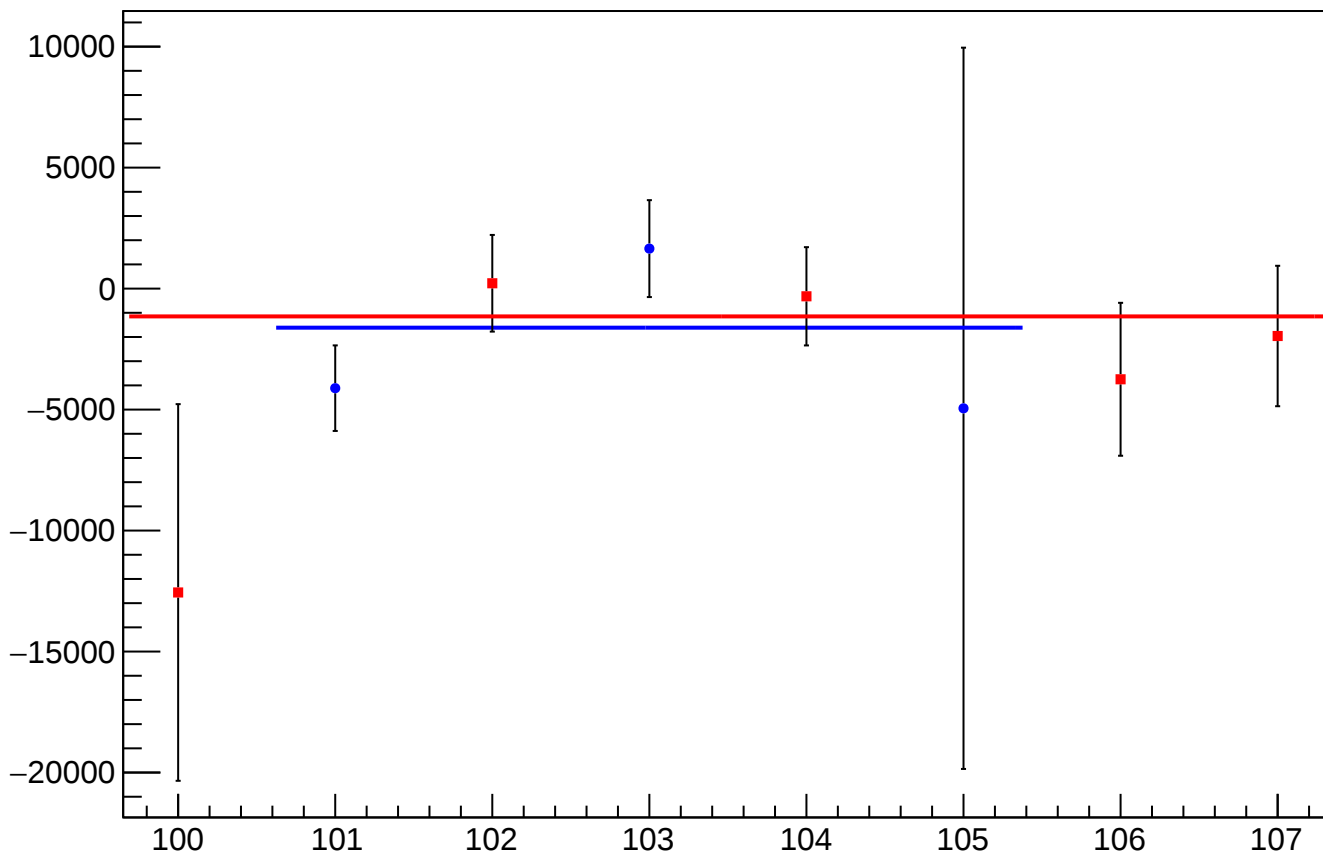
106.929+/-0.074  $\chi^2/\text{NDF}$ : 228479.0/2

Right Out: 115.737+/-0.066  $\chi^2/\text{NDF}$ : 135056.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

115.737+/-0.066  $\chi^2/\text{NDF}$ : 135056.7/4

asym\_sam\_2468\_avg\_correction\_mean vs slug



Right In: -1614.674+/-1320.279  $\chi^2$ /NDF: 4.7/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

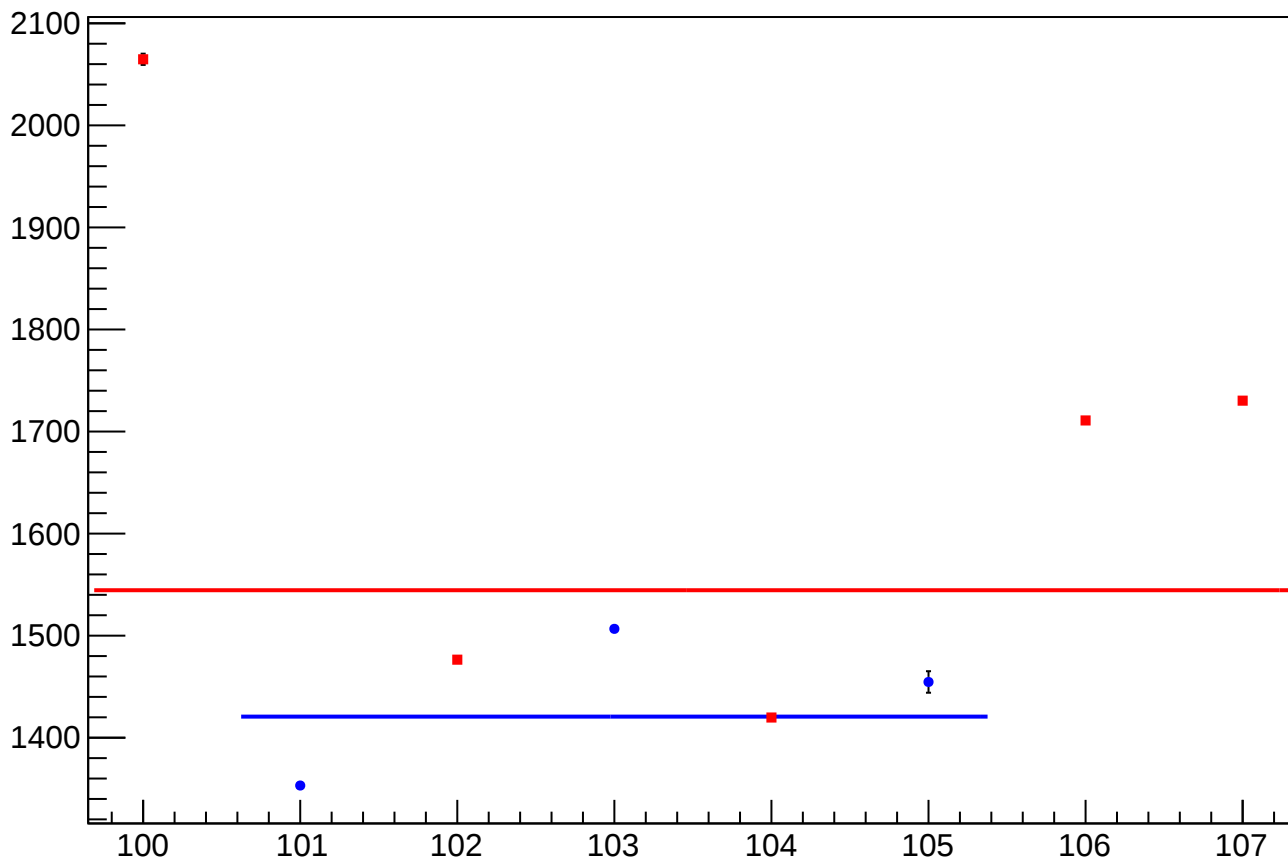
Right Out: -1149.009+/-1171.616  $\chi^2$ /NDF: 3.5/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1614.674+/-1320.279  $\chi^2$ /NDF: 4.7/2

-1149.009+/-1171.616  $\chi^2$ /NDF: 3.5/4

# asym\_sam\_2468\_avg\_correction\_rms vs slug



Right In: 1420.679+/-0.934  $\chi^2/\text{NDF}$ : 6614.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

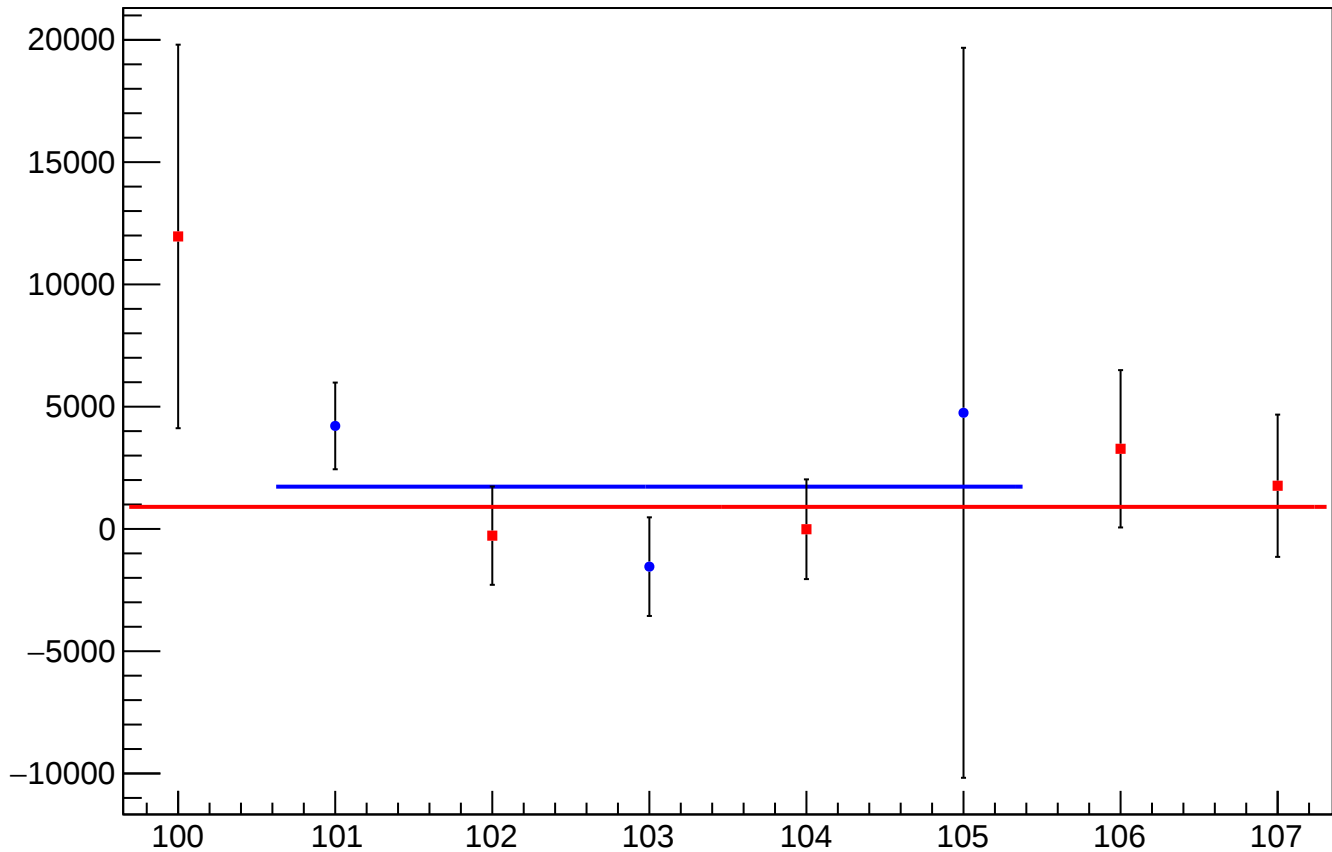
Right Out: 1544.519+/-0.828  $\chi^2/\text{NDF}$ : 32536.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1420.679+/-0.934  $\chi^2/\text{NDF}$ : 6614.7/2

1544.519+/-0.828  $\chi^2/\text{NDF}$ : 32536.0/4

# asym\_sam\_2468\_avg\_mean vs slug



Right In: 1729.379+/-1326.142  $\chi^2/\text{NDF}$ : 4.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

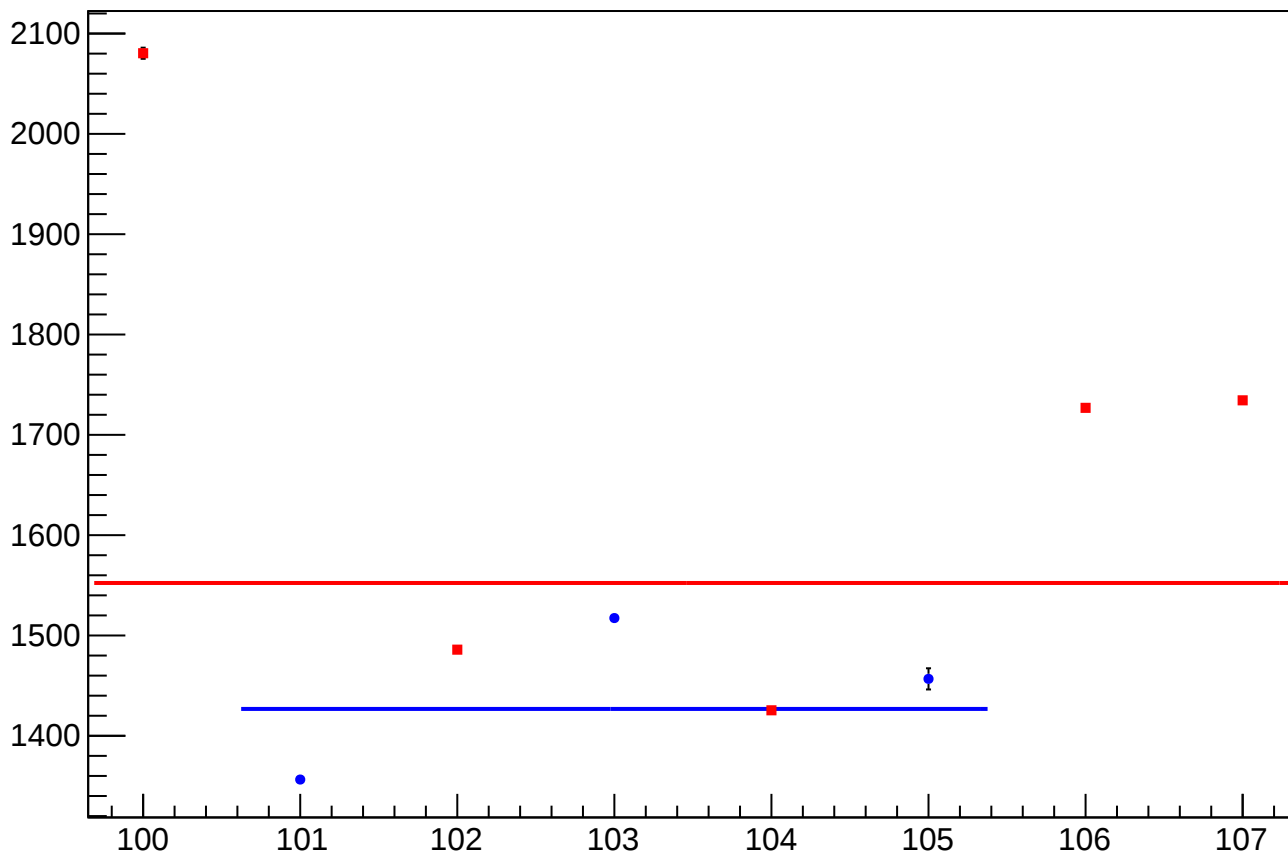
Right Out: 902.984+/-1179.337  $\chi^2/\text{NDF}$ : 3.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1729.379+/-1326.142  $\chi^2/\text{NDF}$ : 4.6/2

902.984+/-1179.337  $\chi^2/\text{NDF}$ : 3.2/4

# asym\_sam\_2468\_avg\_rms vs slug



Right In: 1426.793 $\pm$ 0.938  $\chi^2$ /NDF: 7195.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

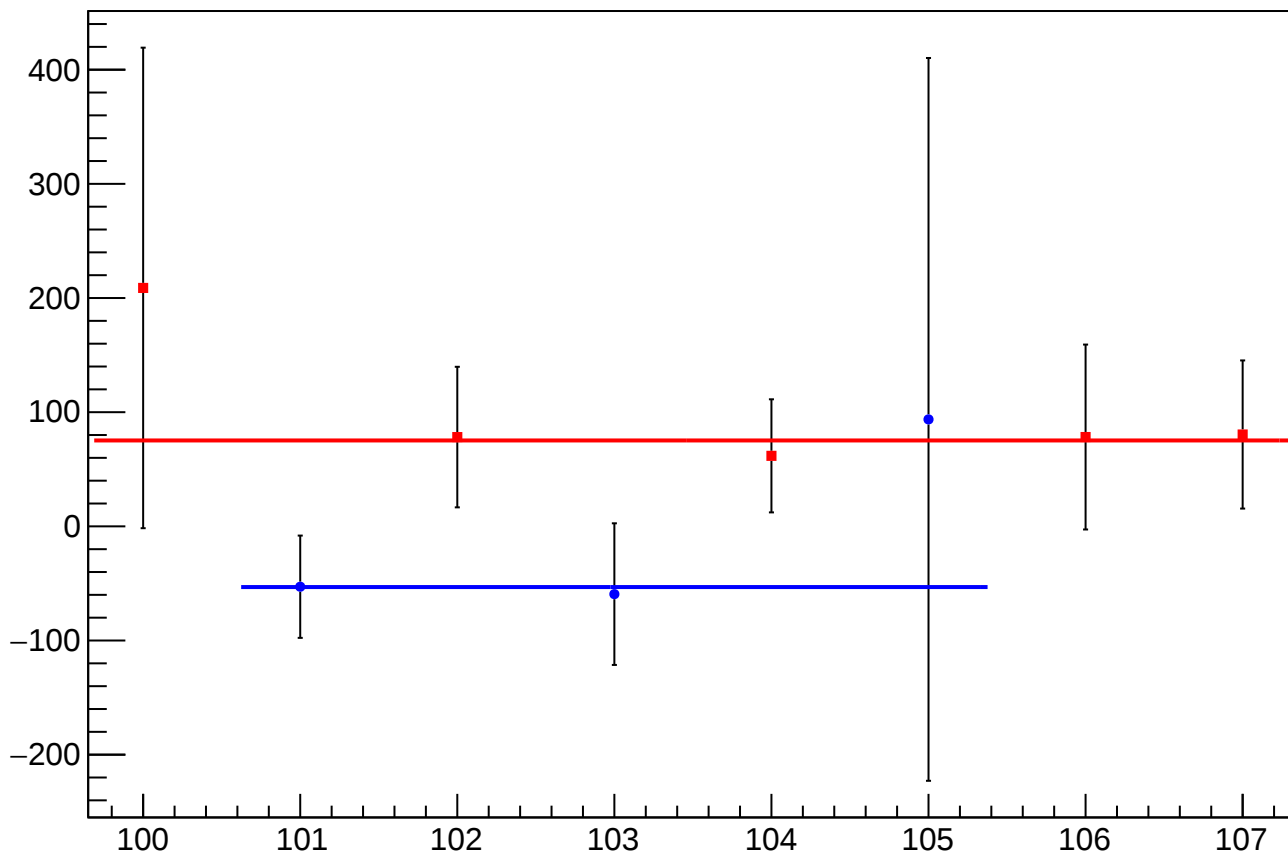
Right Out: 1552.340 $\pm$ 0.834  $\chi^2$ /NDF: 32724.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

1426.793 $\pm$ 0.938  $\chi^2$ /NDF: 7195.7/2

1552.340 $\pm$ 0.834  $\chi^2$ /NDF: 32724.1/4

reg\_asym\_sam\_1357\_2468\_dd\_mean vs slug



Right In: -53.173+/-36.081  $\chi^2$ /NDF: 0.2/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

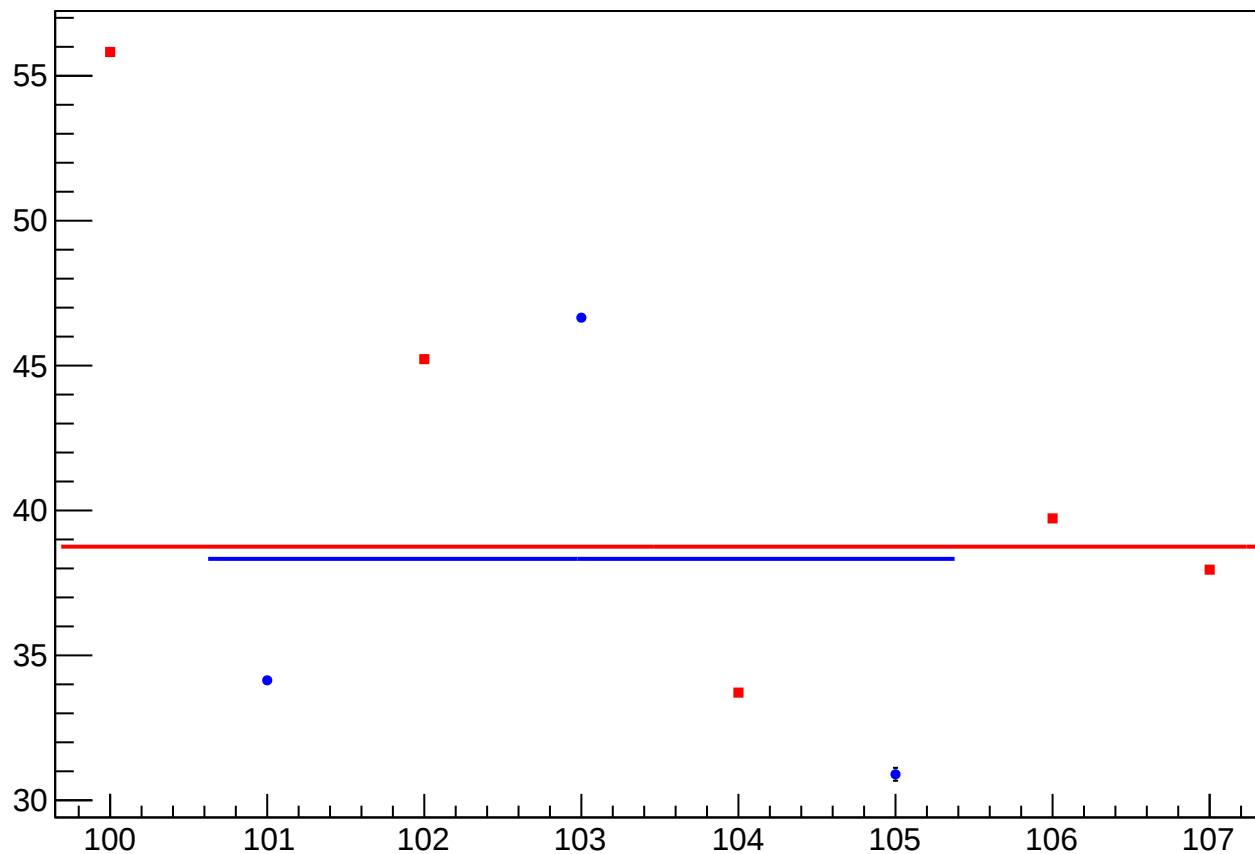
Right Out: 75.236+/-30.372  $\chi^2$ /NDF: 0.5/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-53.173+/-36.081  $\chi^2$ /NDF: 0.2/2

75.236+/-30.372  $\chi^2$ /NDF: 0.5/4

# reg\_asym\_sam\_1357\_2468\_dd\_rms vs slug



Right In: 38.331+/-0.026  $\chi^2/\text{NDF}$ : 54619.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

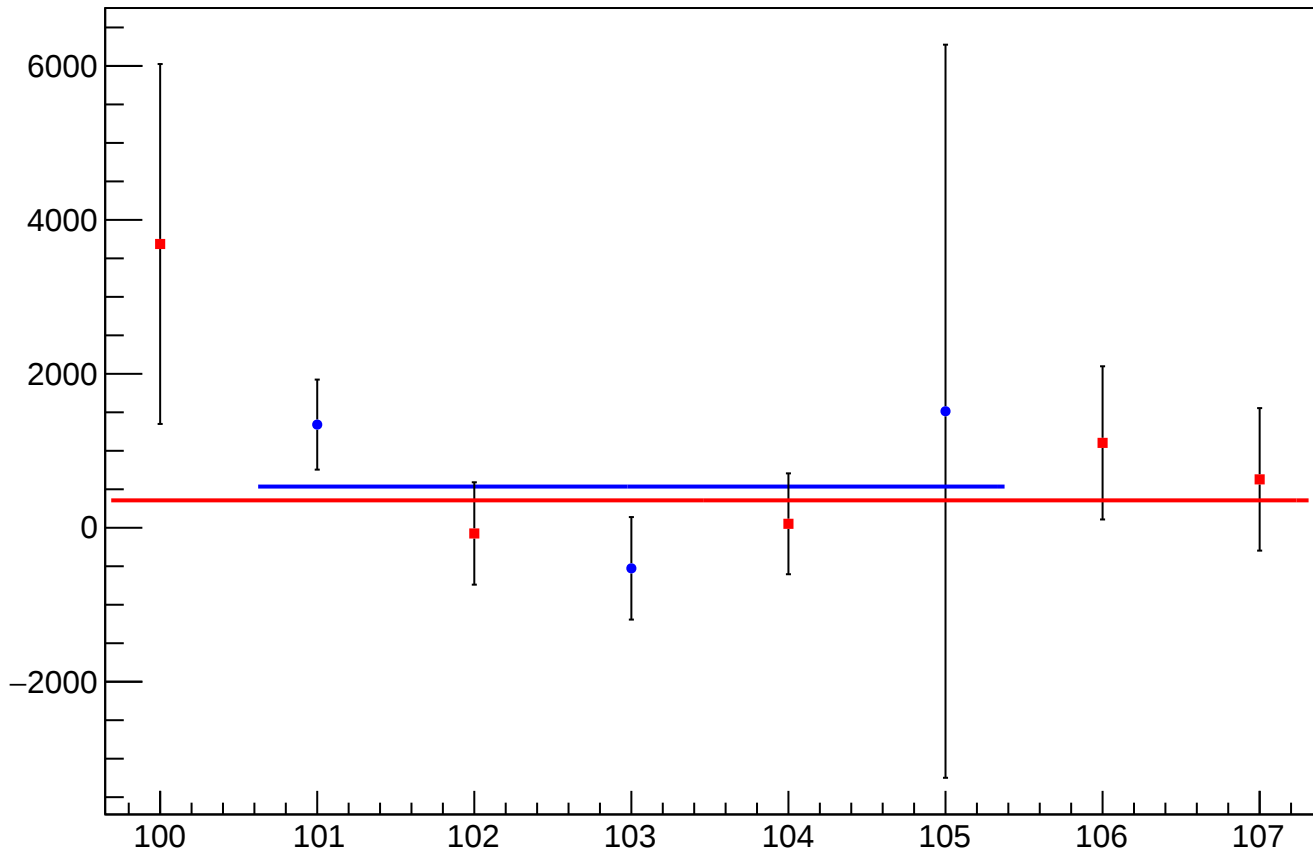
Right Out: 38.752+/-0.021  $\chi^2/\text{NDF}$ : 56519.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

38.331+/-0.026  $\chi^2/\text{NDF}$ : 54619.4/2

38.752+/-0.021  $\chi^2/\text{NDF}$ : 56519.8/4

asym\_sam\_1357\_2468\_dd\_correction\_mean vs slug



Right In: 535.413+/-437.623  $\chi^2/\text{NDF}$ : 4.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

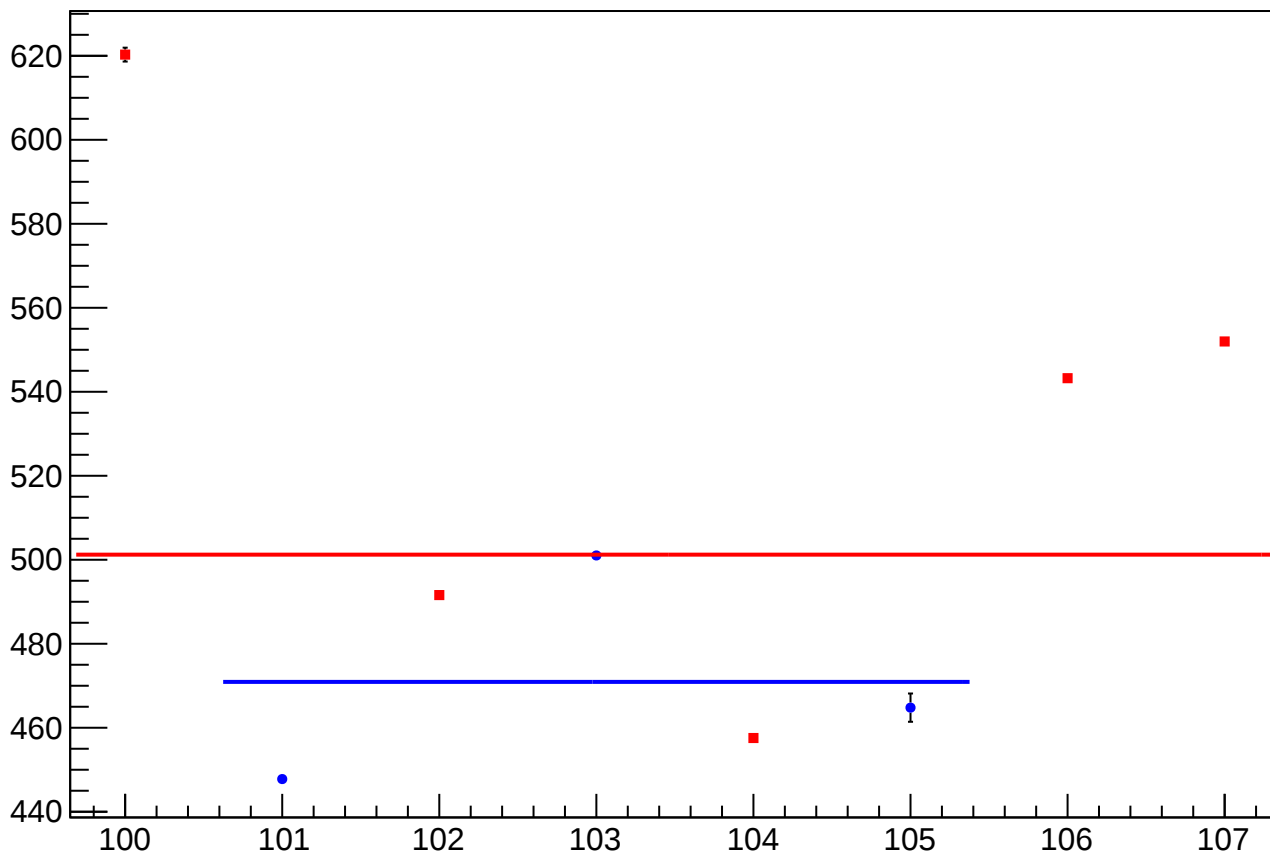
Right Out: 356.125+/-379.329  $\chi^2/\text{NDF}$ : 3.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

535.413+/-437.623  $\chi^2/\text{NDF}$ : 4.5/2

356.125+/-379.329  $\chi^2/\text{NDF}$ : 3.3/4

asym\_sam\_1357\_2468\_dd\_correction\_rms vs slug



Right In: 470.918 $\pm$ 0.309  $\chi^2$ /NDF: 7219.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

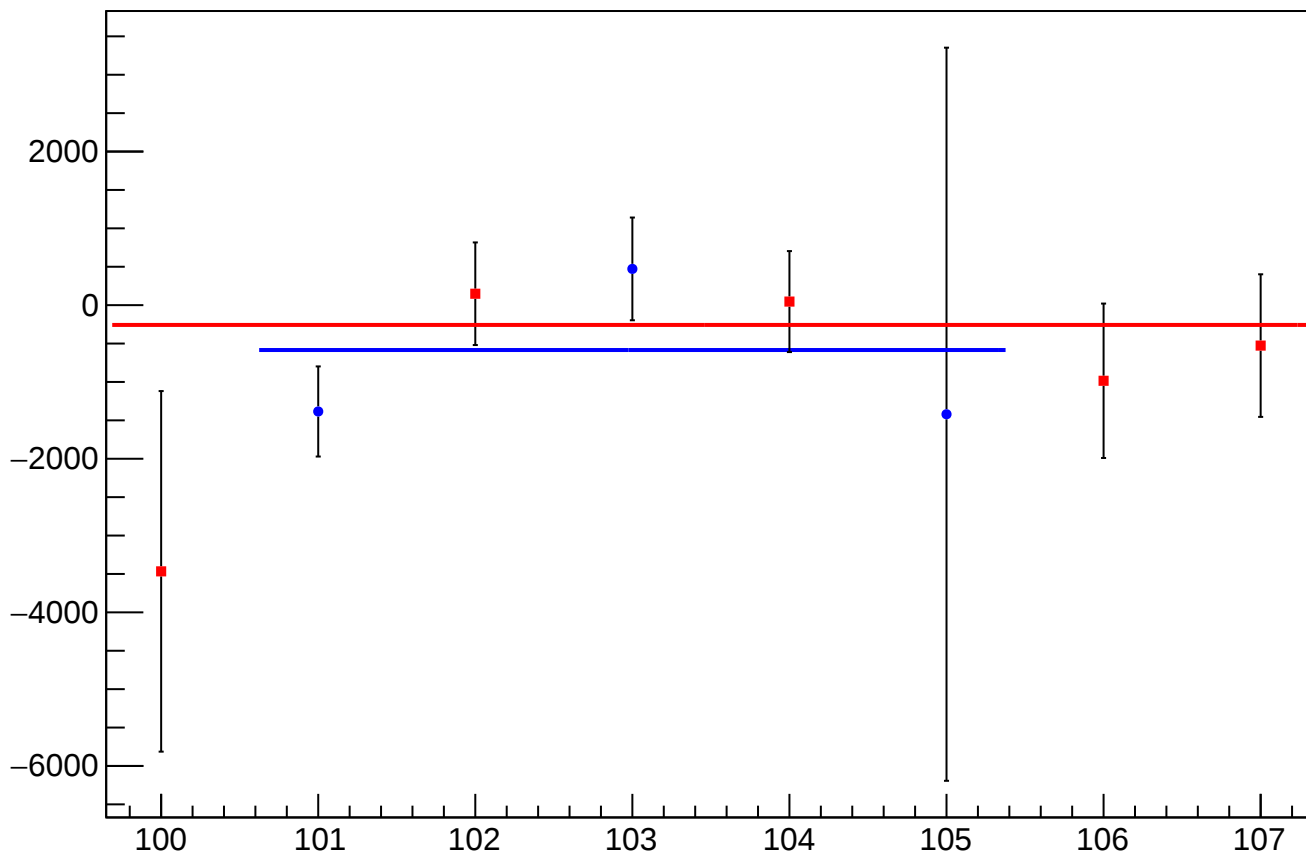
470.918 $\pm$ 0.309  $\chi^2$ /NDF: 7219.8/2

Right Out: 501.217 $\pm$ 0.268  $\chi^2$ /NDF: 24064.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

501.217 $\pm$ 0.268  $\chi^2$ /NDF: 24064.8/4

# asym\_sam\_1357\_2468\_dd\_mean vs slug



Right In: -584.262+/-439.194  $\chi^2$ /NDF: 4.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

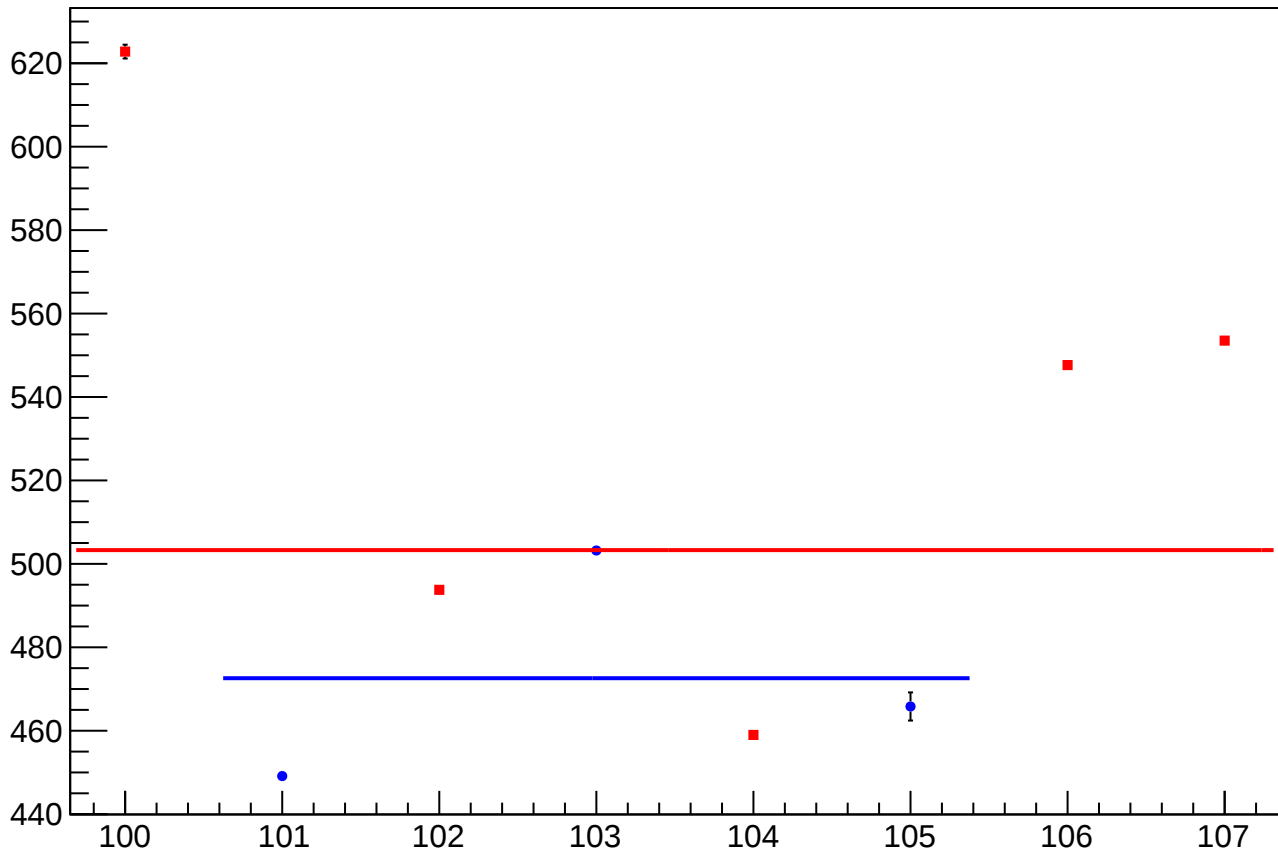
Right Out: -257.565+/-381.070  $\chi^2$ /NDF: 3.1/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-584.262+/-439.194  $\chi^2$ /NDF: 4.4/2

-257.565+/-381.070  $\chi^2$ /NDF: 3.1/4

# asym\_sam\_1357\_2468\_dd\_rms vs slug



Right In: 472.590+/-0.311  $\chi^2/\text{NDF}$ : 7390.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

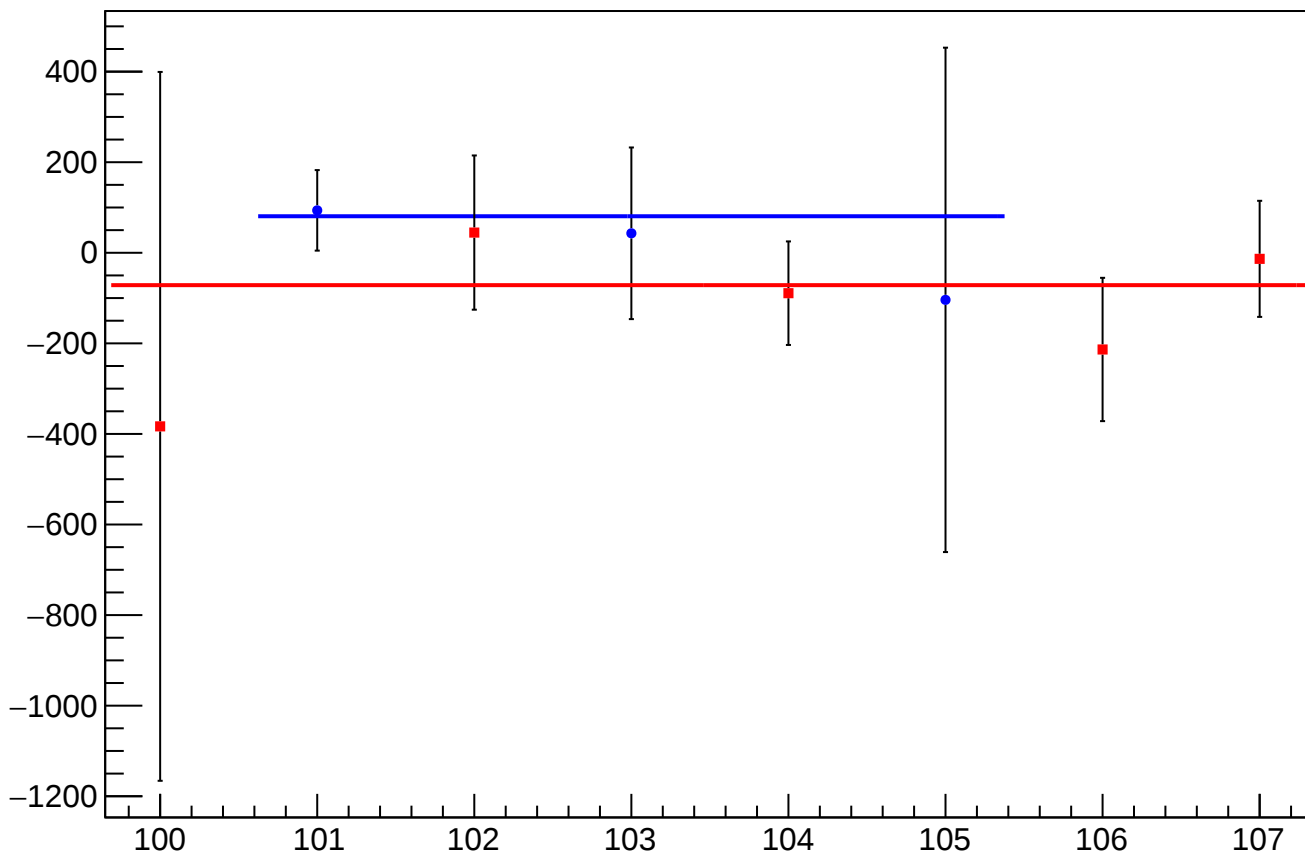
472.590+/-0.311  $\chi^2/\text{NDF}$ : 7390.7/2

Right Out: 503.295+/-0.269  $\chi^2/\text{NDF}$ : 24417.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

503.295+/-0.269  $\chi^2/\text{NDF}$ : 24417.8/4

# reg\_asym\_sam\_12345678\_avg\_mean vs slug



Right In: 80.687+/-79.668  $\chi^2/\text{NDF}$ : 0.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

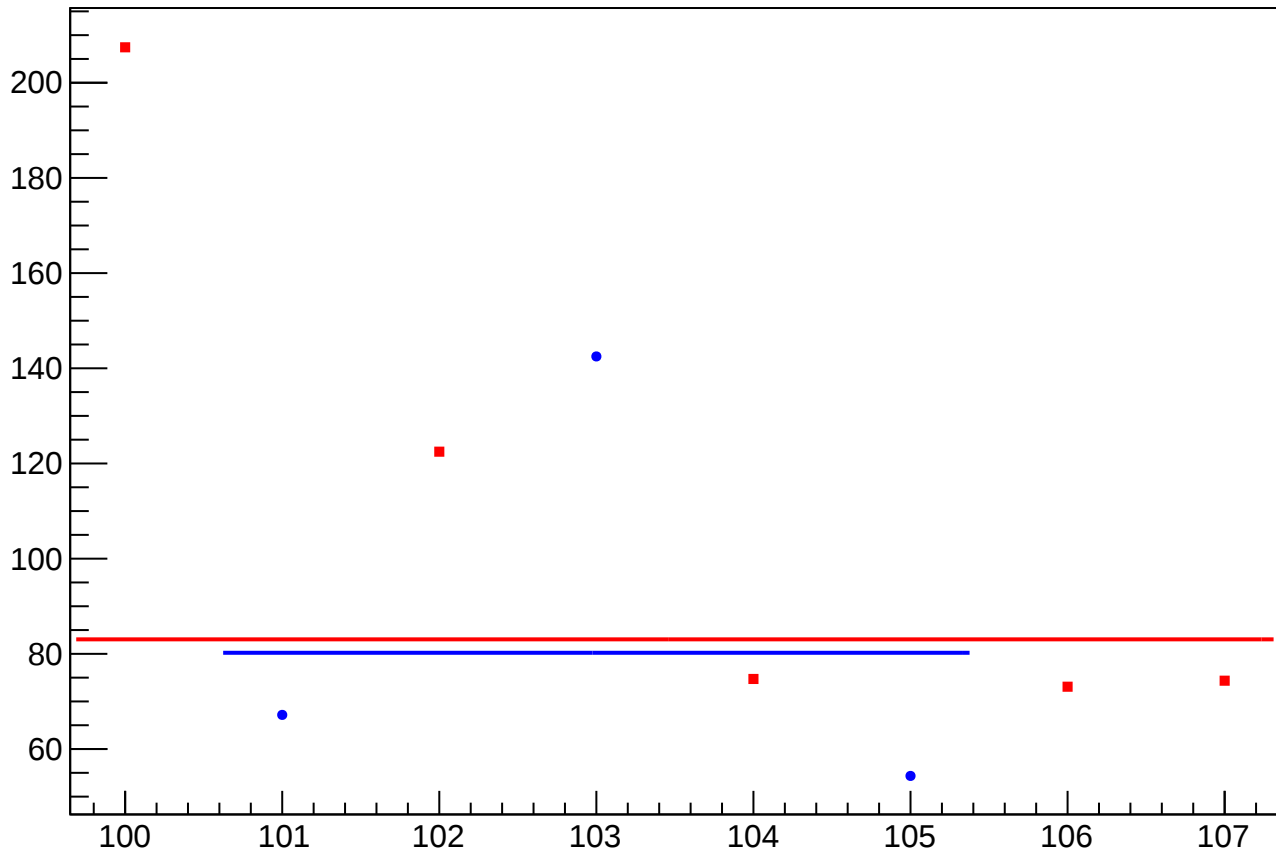
Right Out: -71.475+/-68.444  $\chi^2/\text{NDF}$ : 1.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

80.687+/-79.668  $\chi^2/\text{NDF}$ : 0.2/2

-71.475+/-68.444  $\chi^2/\text{NDF}$ : 1.7/4

reg\_asym\_sam\_12345678\_avg\_rms vs slug



Right In: 80.225+/-0.056  $\chi^2/\text{NDF}$ : 263342.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

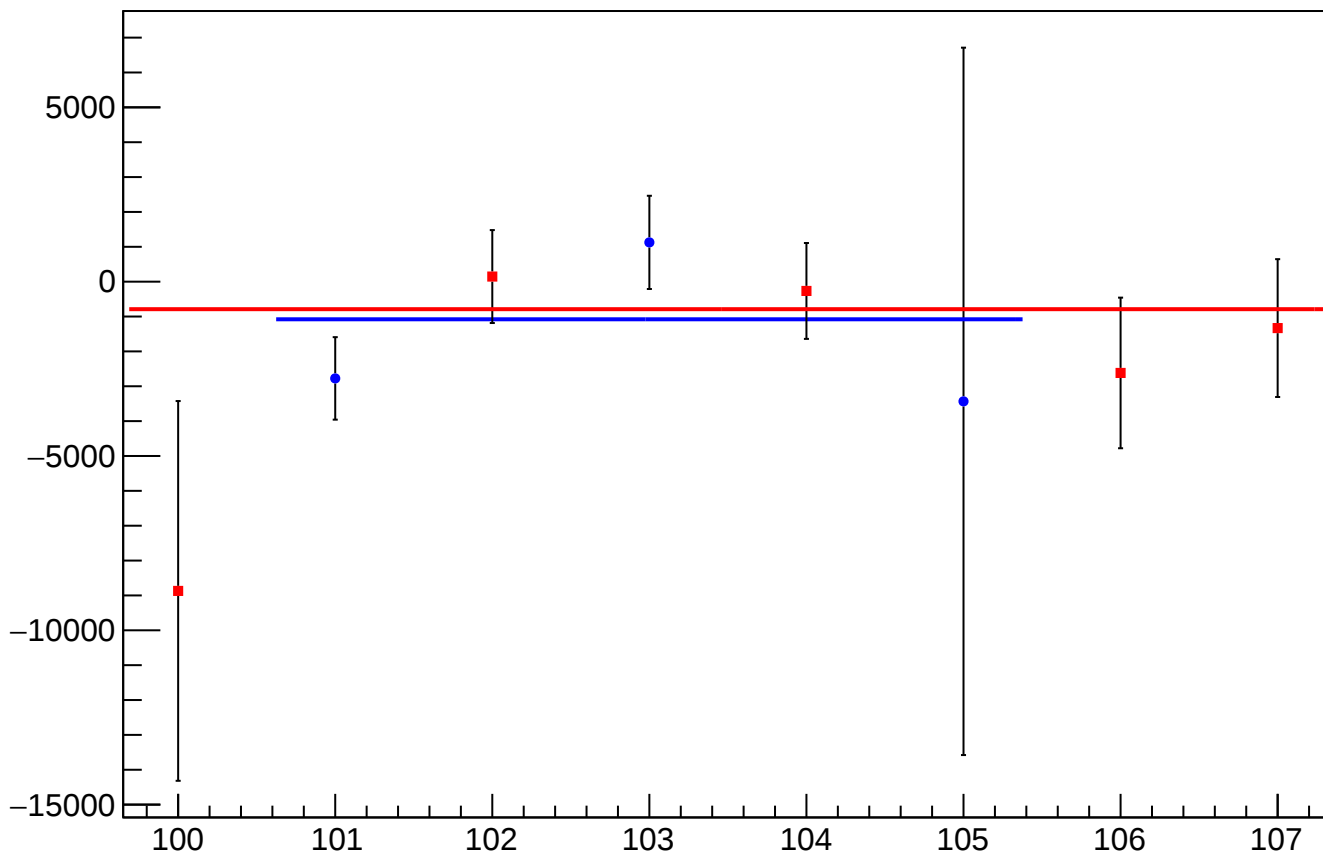
Right Out: 83.046+/-0.048  $\chi^2/\text{NDF}$ : 185492.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

80.225+/-0.056  $\chi^2/\text{NDF}$ : 263342.3/2

83.046+/-0.048  $\chi^2/\text{NDF}$ : 185492.5/4

asym\_sam\_12345678\_avg\_correction\_mean vs slug



Right In: -1079.197+/-882.675  $\chi^2/\text{NDF}$ : 4.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

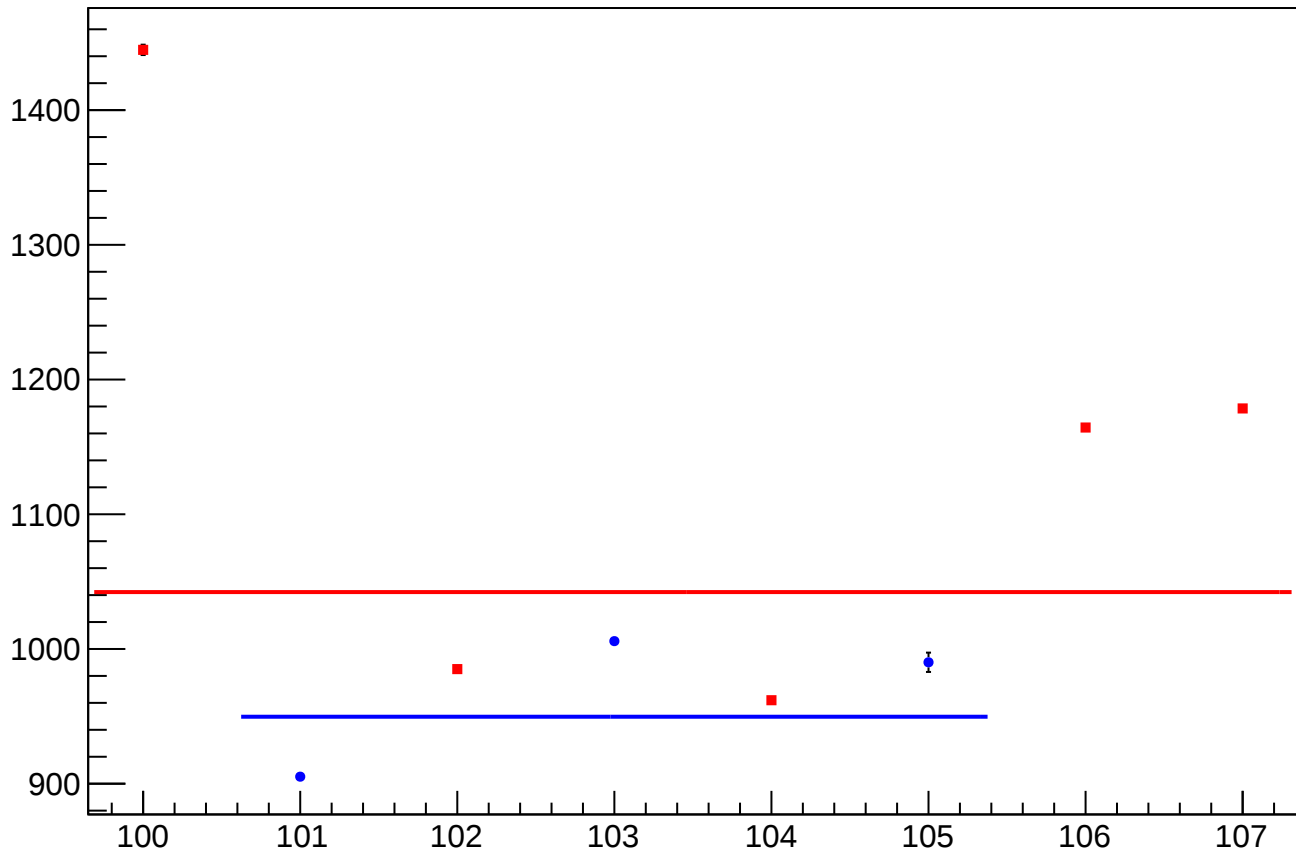
Right Out: -789.075+/-791.637  $\chi^2/\text{NDF}$ : 3.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1079.197+/-882.675  $\chi^2/\text{NDF}$ : 4.8/2

-789.075+/-791.637  $\chi^2/\text{NDF}$ : 3.6/4

asym\_sam\_12345678\_avg\_correction\_rms vs slug



Right In: 949.711+/-0.624  $\chi^2/\text{NDF}$ : 6383.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

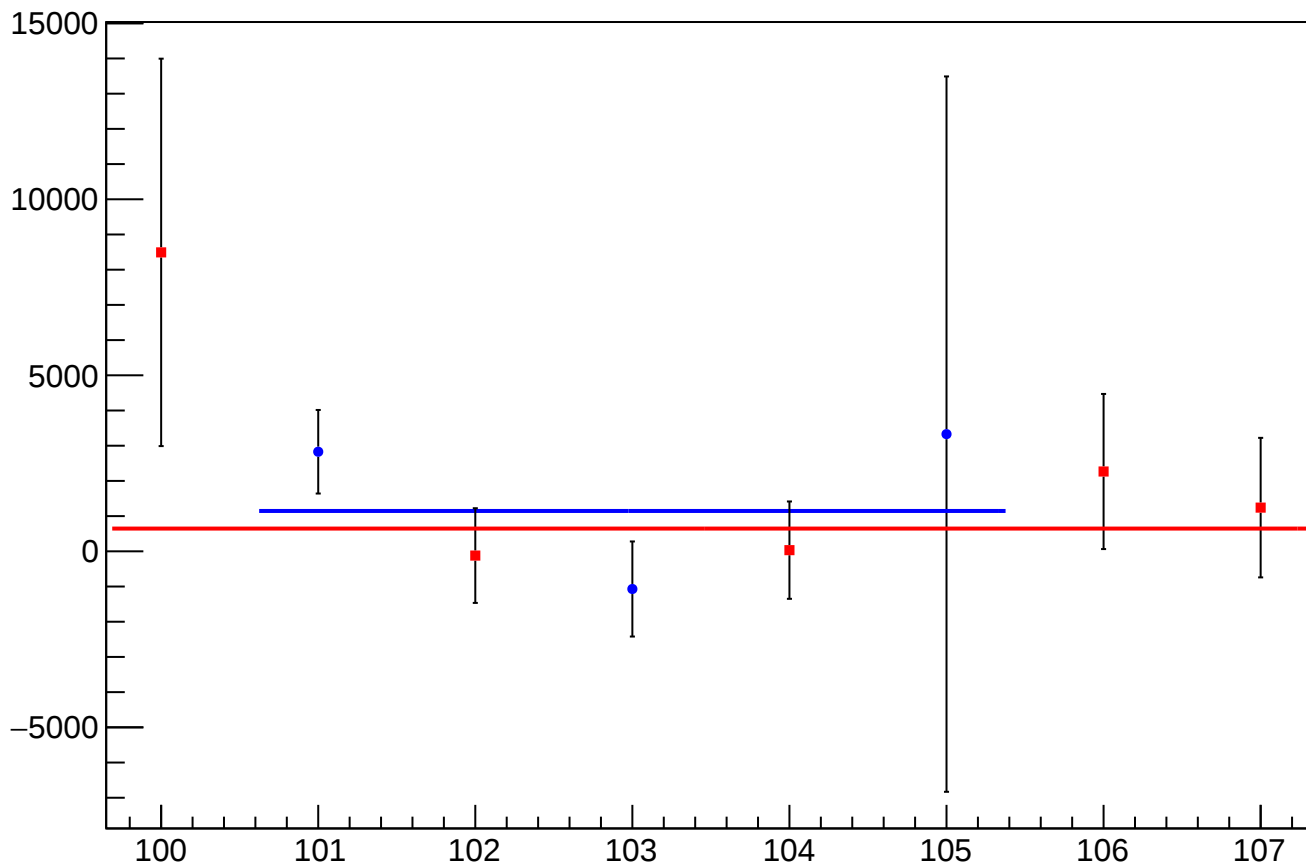
949.711+/-0.624  $\chi^2/\text{NDF}$ : 6383.9/2

Right Out: 1042.237+/-0.560  $\chi^2/\text{NDF}$ : 37323.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1042.237+/-0.560  $\chi^2/\text{NDF}$ : 37323.7/4

asym\_sam\_12345678\_avg\_mean vs slug



Right In: 1146.334+/-888.047  $\chi^2/\text{NDF}$ : 4.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

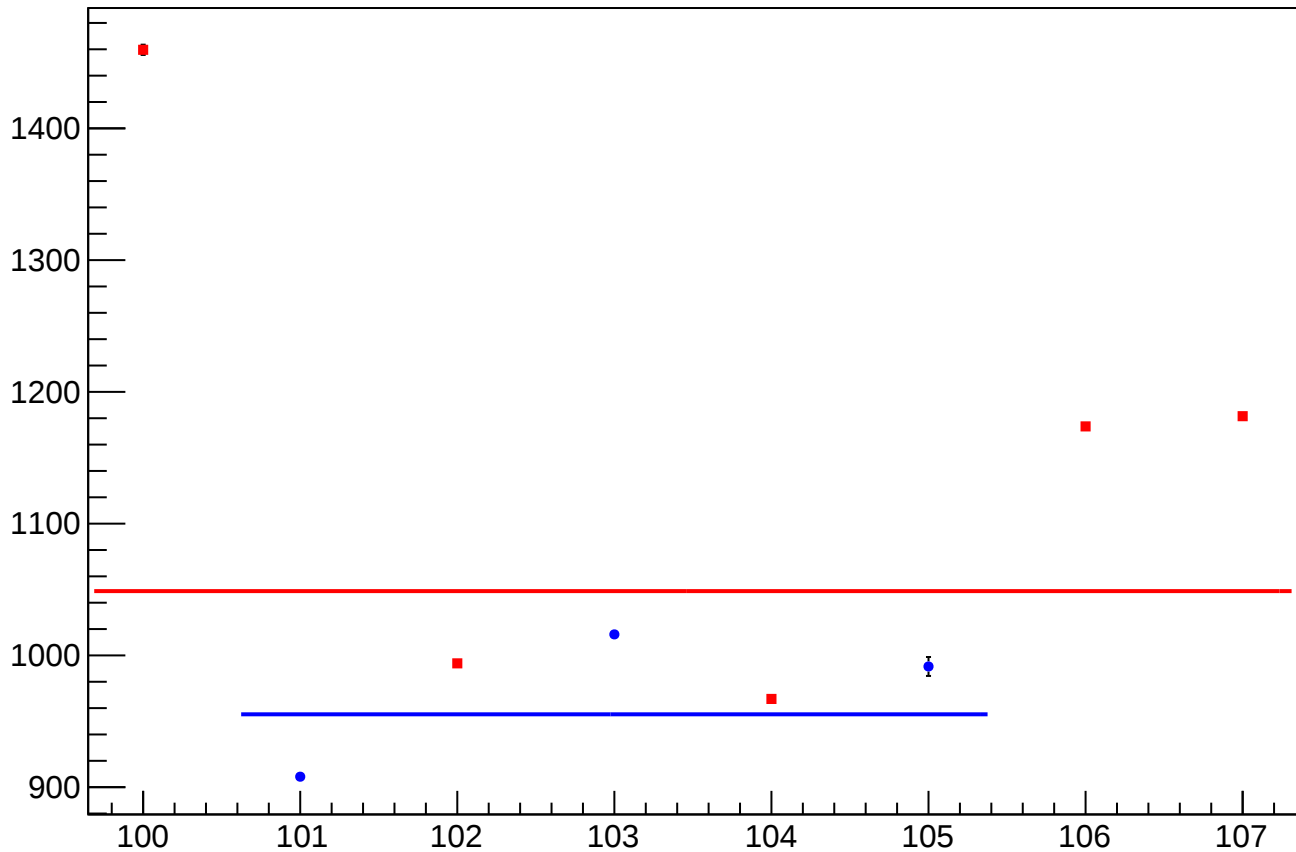
Right Out: 646.236+/-798.194  $\chi^2/\text{NDF}$ : 3.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1146.334+/-888.047  $\chi^2/\text{NDF}$ : 4.7/2

646.236+/-798.194  $\chi^2/\text{NDF}$ : 3.2/4

# asym\_sam\_12345678\_avg\_rms vs slug



Right In: 955.299+/-0.628  $\chi^2/\text{NDF}$ : 7243.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

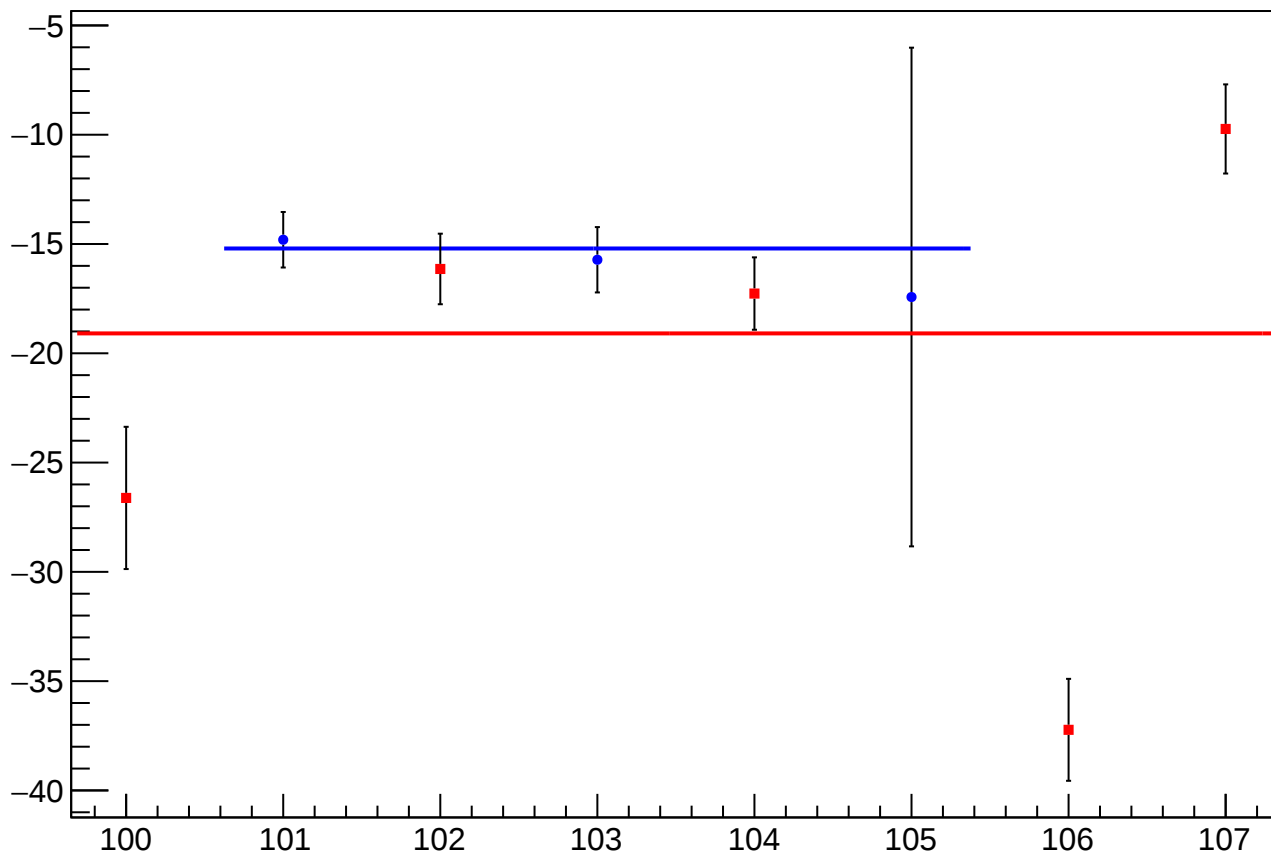
Right Out: 1048.804+/-0.564  $\chi^2/\text{NDF}$ : 36890.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

955.299+/-0.628  $\chi^2/\text{NDF}$ : 7243.0/2

1048.804+/-0.564  $\chi^2/\text{NDF}$ : 36890.3/4

# reg\_asym\_sam1\_diff\_bpm4aX\_slope vs slug



Right In: -15.205 $\pm$ 0.965  $\chi^2$ /NDF: 0.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

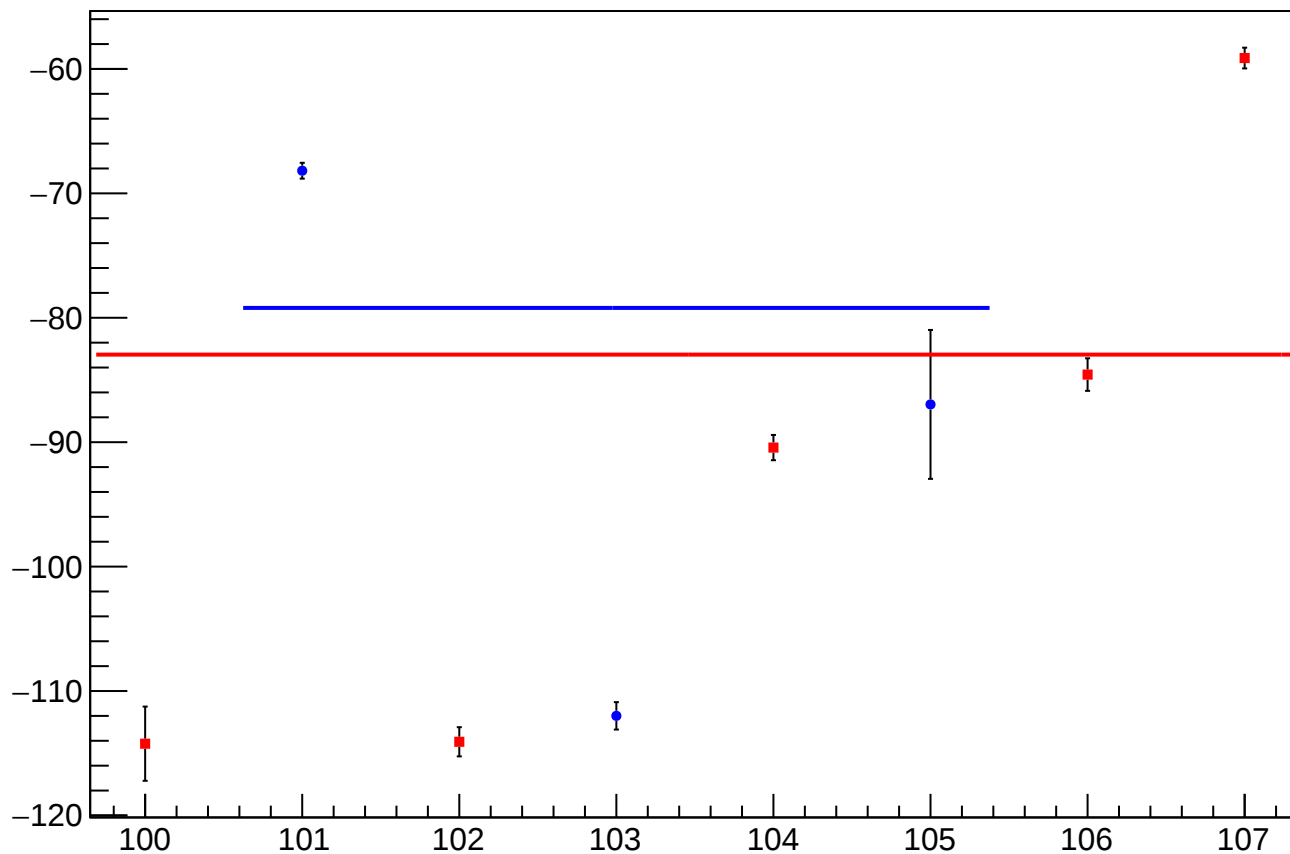
Right Out: -19.090 $\pm$ 0.888  $\chi^2$ /NDF: 91.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-15.205 $\pm$ 0.965  $\chi^2$ /NDF: 0.3/2

-19.090 $\pm$ 0.888  $\chi^2$ /NDF: 91.4/4

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs slug



Right In: -79.207 $\pm$ 0.549  $\chi^2$ /NDF: 1186.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

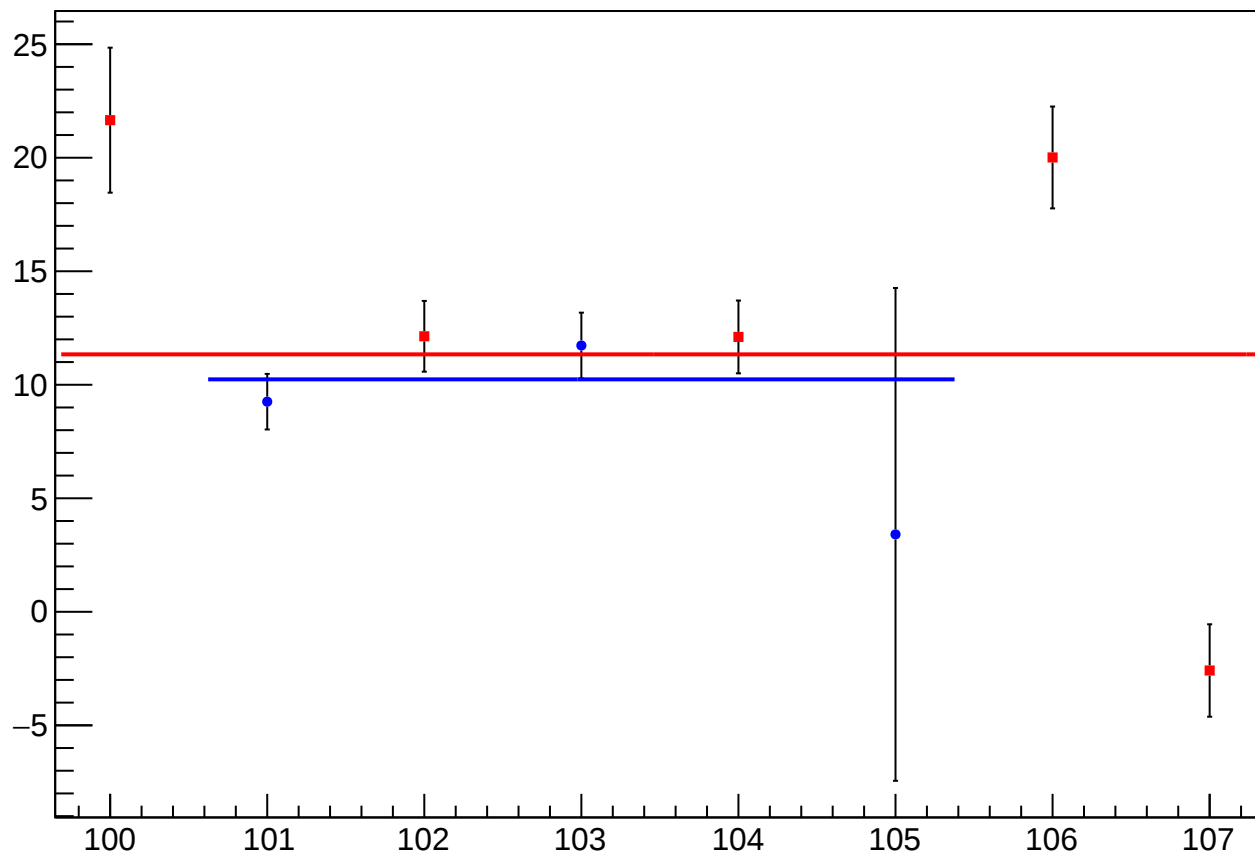
Right Out: -82.961 $\pm$ 0.511  $\chi^2$ /NDF: 1685.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-79.207 $\pm$ 0.549  $\chi^2$ /NDF: 1186.8/2

-82.961 $\pm$ 0.511  $\chi^2$ /NDF: 1685.5/4

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs slug



Right In: 10.238 $\pm$ 0.931  $\chi^2$ /NDF: 2.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

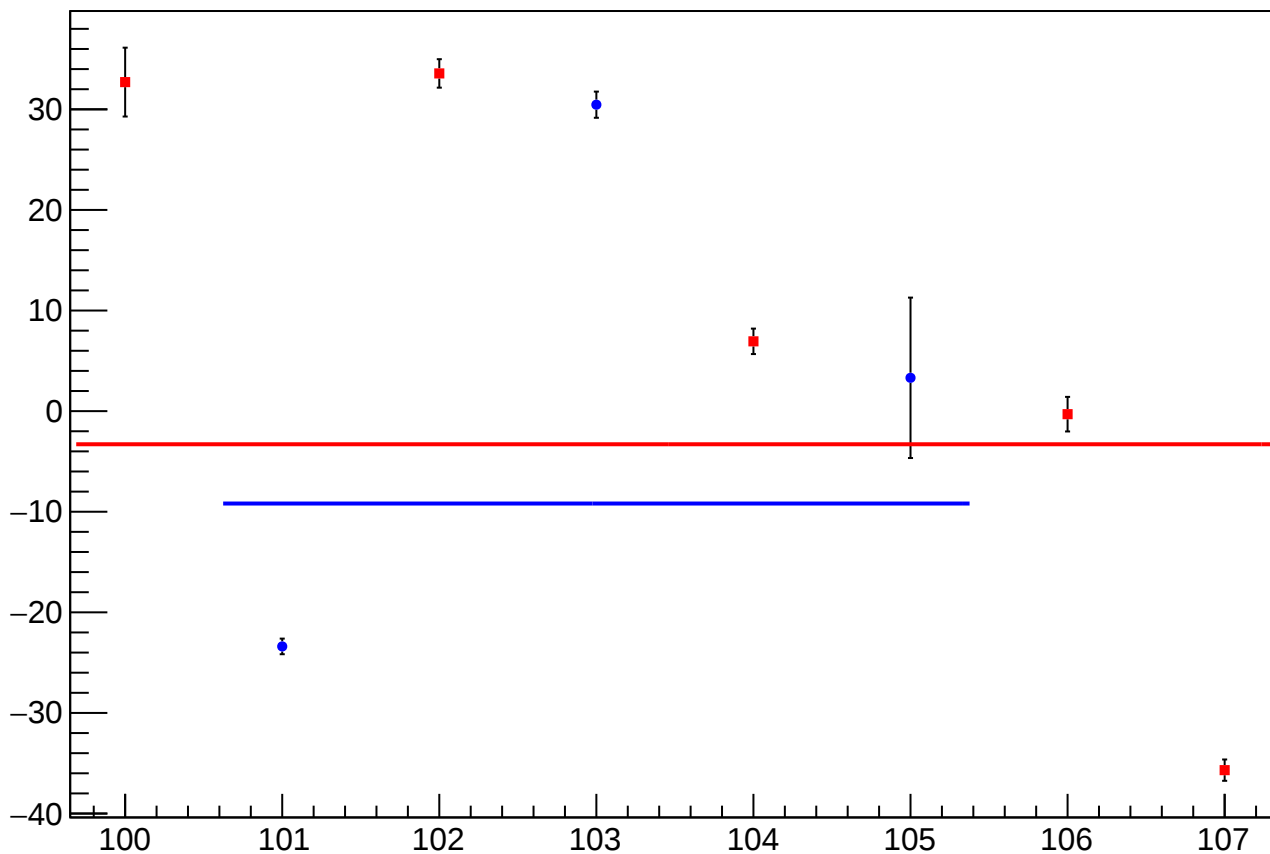
Right Out: 11.340 $\pm$ 0.864  $\chi^2$ /NDF: 72.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

10.238 $\pm$ 0.931  $\chi^2$ /NDF: 2.1/2

11.340 $\pm$ 0.864  $\chi^2$ /NDF: 72.7/4

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs slug



Right In: -9.184+/-0.664  $\chi^2$ /NDF: 1266.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

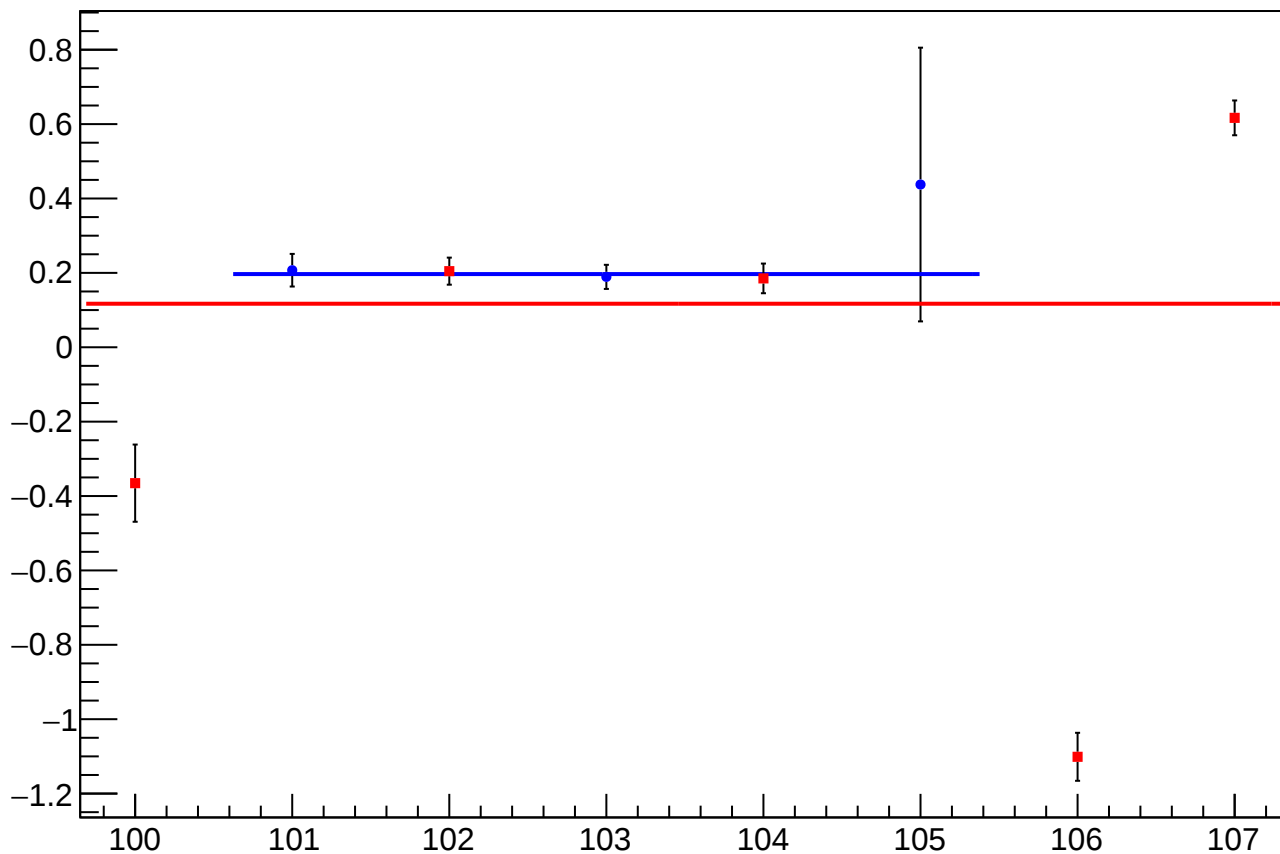
Right Out: -3.293+/-0.640  $\chi^2$ /NDF: 1793.1/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-9.184+/-0.664  $\chi^2$ /NDF: 1266.0/2

-3.293+/-0.640  $\chi^2$ /NDF: 1793.1/4

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs slug



Right In: 0.197 $\pm$ 0.026  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

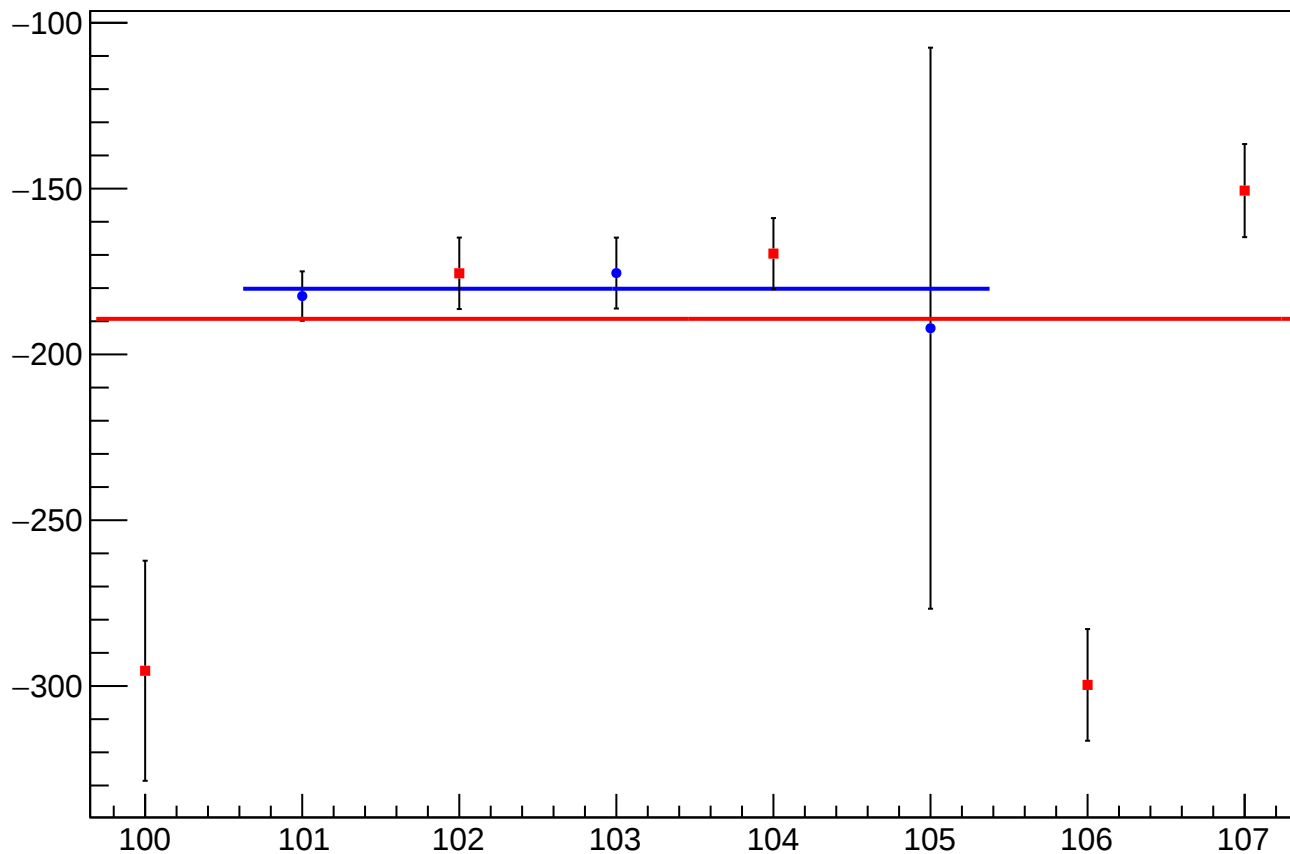
Right Out: 0.117 $\pm$ 0.021  $\chi^2$ /NDF: 501.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.197 $\pm$ 0.026  $\chi^2$ /NDF: 0.5/2

0.117 $\pm$ 0.021  $\chi^2$ /NDF: 501.0/4

# reg\_asym\_sam2\_diff\_bpm4aX\_slope vs slug



Right In: -180.198+/-6.094  $\chi^2/\text{NDF}$ : 0.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

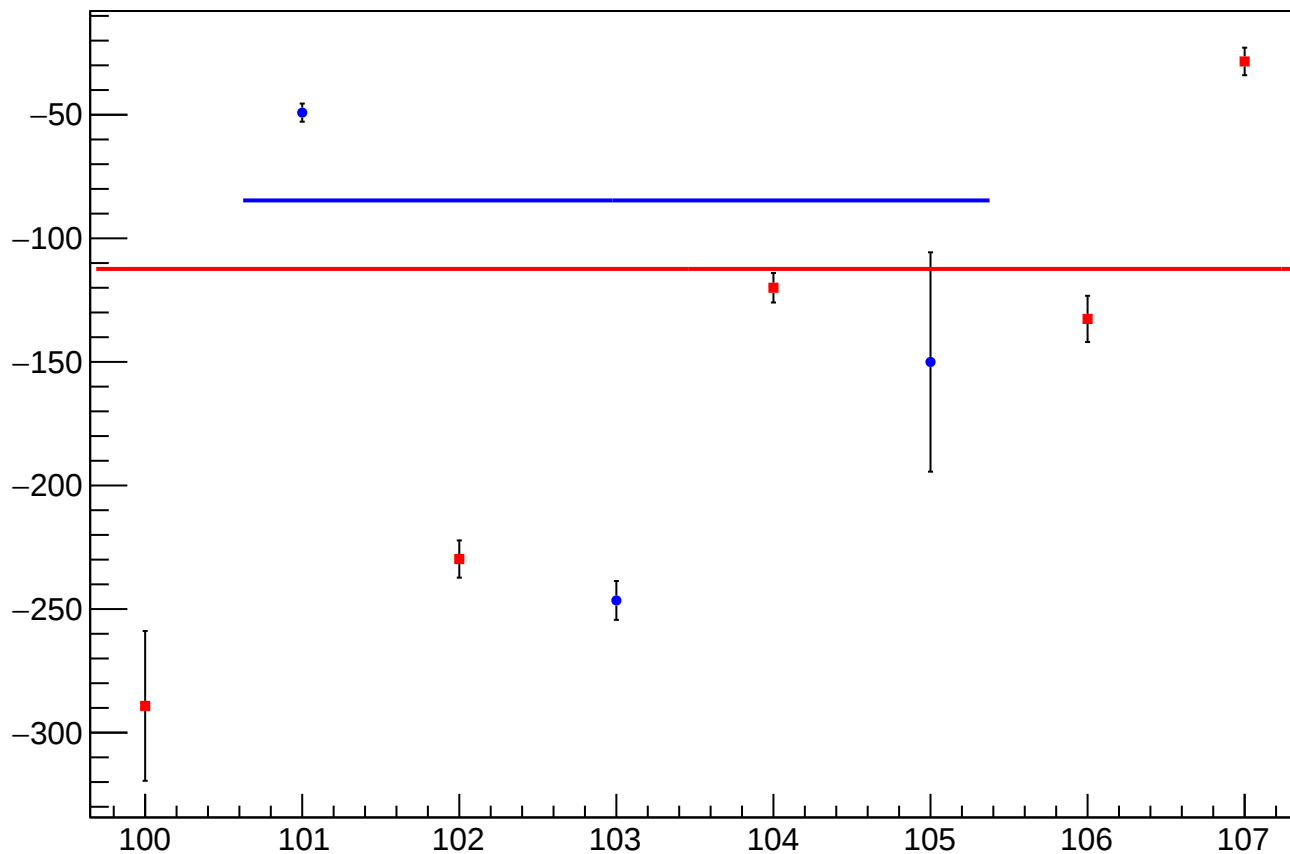
Right Out: -189.267+/-6.105  $\chi^2/\text{NDF}$ : 65.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-180.198+/-6.094  $\chi^2/\text{NDF}$ : 0.3/2

-189.267+/-6.105  $\chi^2/\text{NDF}$ : 65.8/4

# reg\_asym\_sam2\_diff\_bpm4aY\_slope vs slug



Right In: -84.661 $\pm$ 3.308  $\chi^2$ /NDF: 520.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

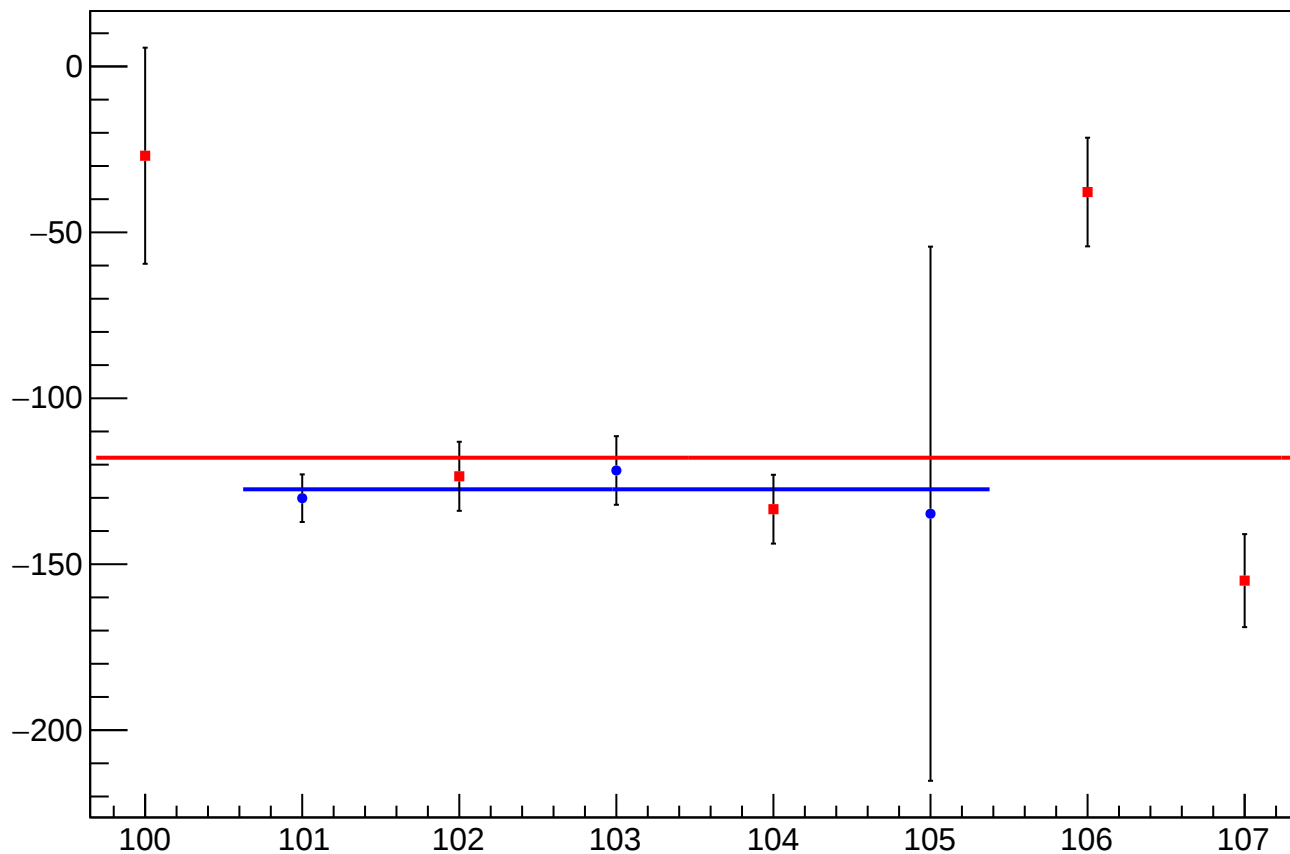
Right Out: -112.372 $\pm$ 3.328  $\chi^2$ /NDF: 510.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-84.661 $\pm$ 3.308  $\chi^2$ /NDF: 520.4/2

-112.372 $\pm$ 3.328  $\chi^2$ /NDF: 510.0/4

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs slug



Right In: -127.427+/-5.879  $\chi^2/\text{NDF}$ : 0.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

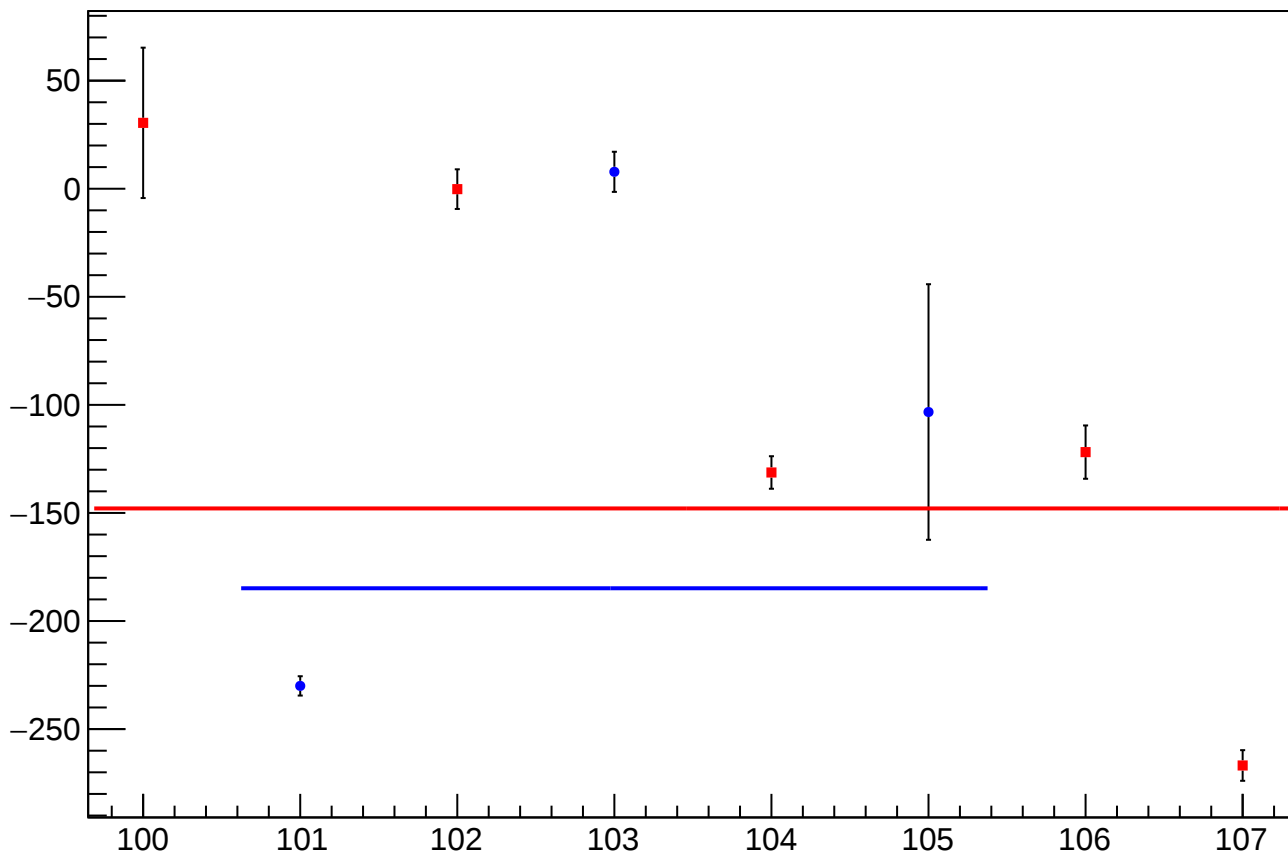
Right Out: -117.904+/-5.944  $\chi^2/\text{NDF}$ : 41.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-127.427+/-5.879  $\chi^2/\text{NDF}$ : 0.4/2

-117.904+/-5.944  $\chi^2/\text{NDF}$ : 41.2/4

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs slug



Right In: -184.847+/-4.019  $\chi^2$ /NDF: 534.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

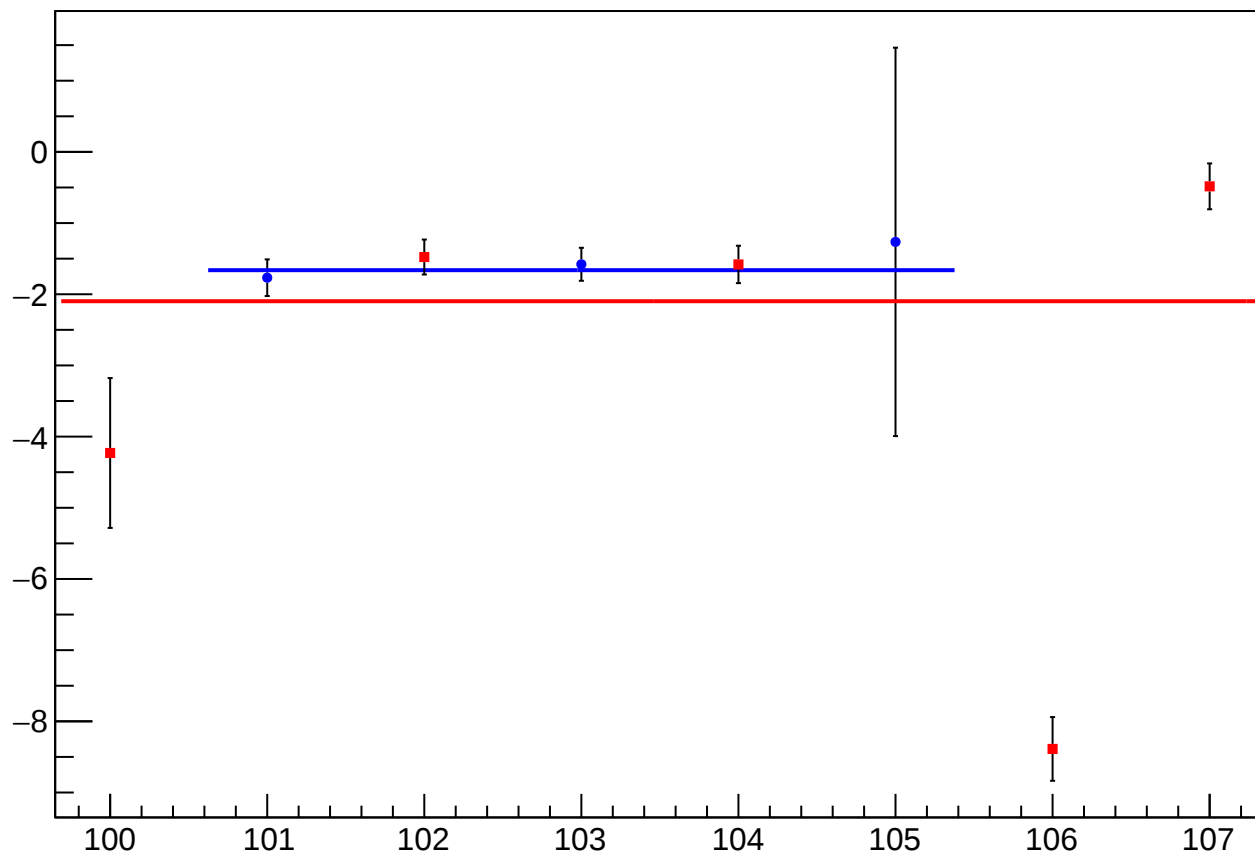
Right Out: -147.916+/-4.194  $\chi^2$ /NDF: 576.5/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-184.847+/-4.019  $\chi^2$ /NDF: 534.8/2

-147.916+/-4.194  $\chi^2$ /NDF: 576.5/4

# reg\_asym\_sam2\_diff\_bpm12X\_slope vs slug



Right In: -1.662 $\pm$ 0.172  $\chi^2$ /NDF: 0.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

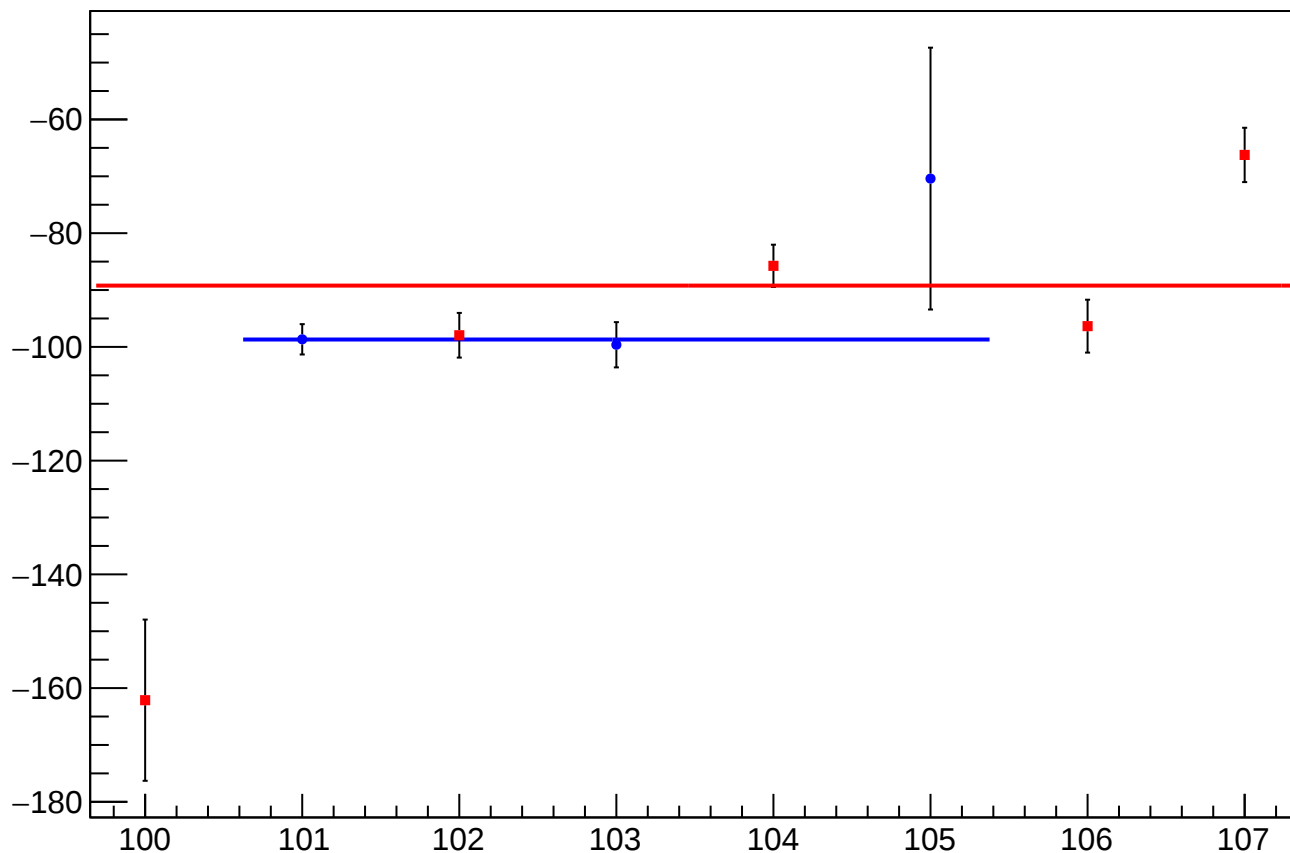
Right Out: -2.098 $\pm$ 0.146  $\chi^2$ /NDF: 236.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-1.662 $\pm$ 0.172  $\chi^2$ /NDF: 0.3/2

-2.098 $\pm$ 0.146  $\chi^2$ /NDF: 236.9/4

# reg\_asym\_sam3\_diff\_bpm4aX\_slope vs slug



Right In: -98.700 $\pm$ 2.205  $\chi^2$ /NDF: 1.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

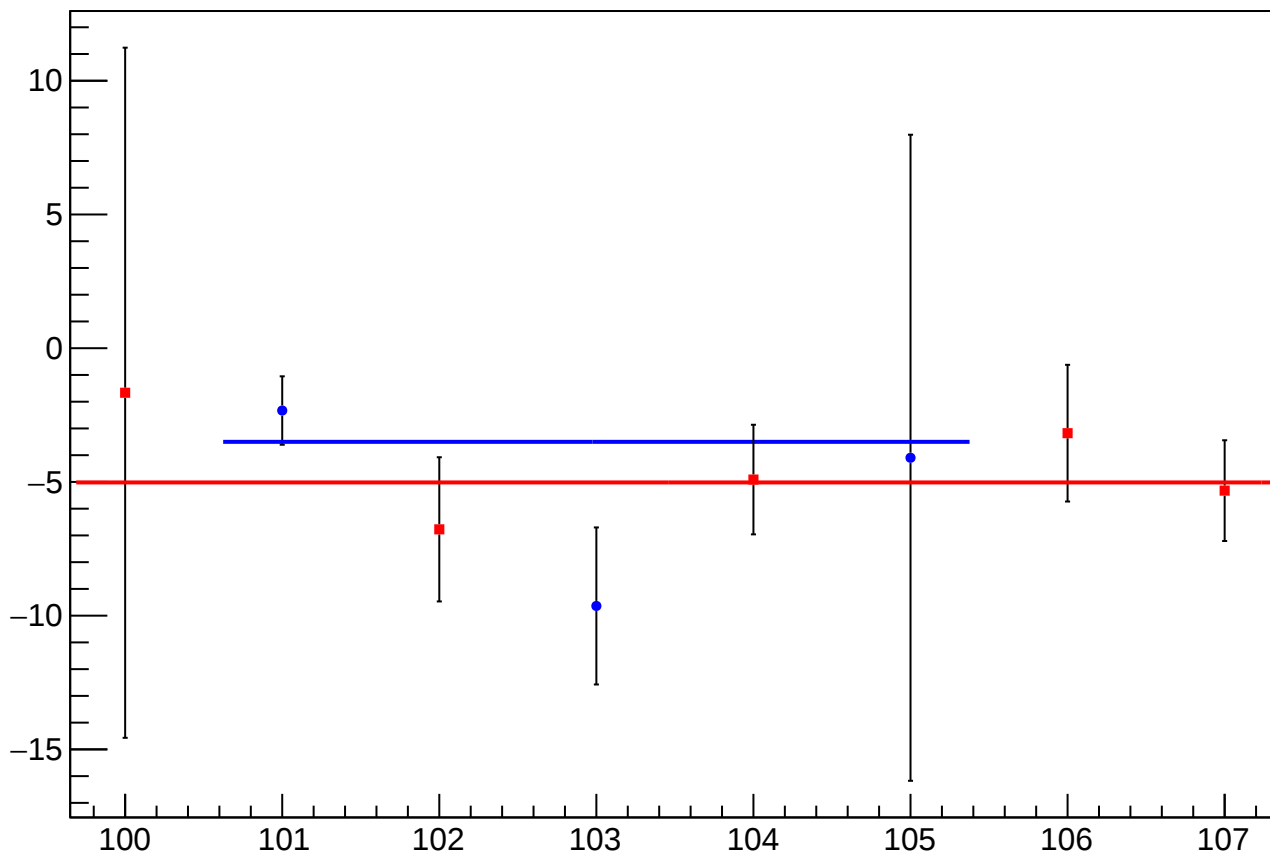
Right Out: -89.220 $\pm$ 2.076  $\chi^2$ /NDF: 57.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-98.700 $\pm$ 2.205  $\chi^2$ /NDF: 1.6/2

-89.220 $\pm$ 2.076  $\chi^2$ /NDF: 57.8/4

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs slug



Right In: -3.501+/-1.167  $\chi^2/\text{NDF}$ : 5.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

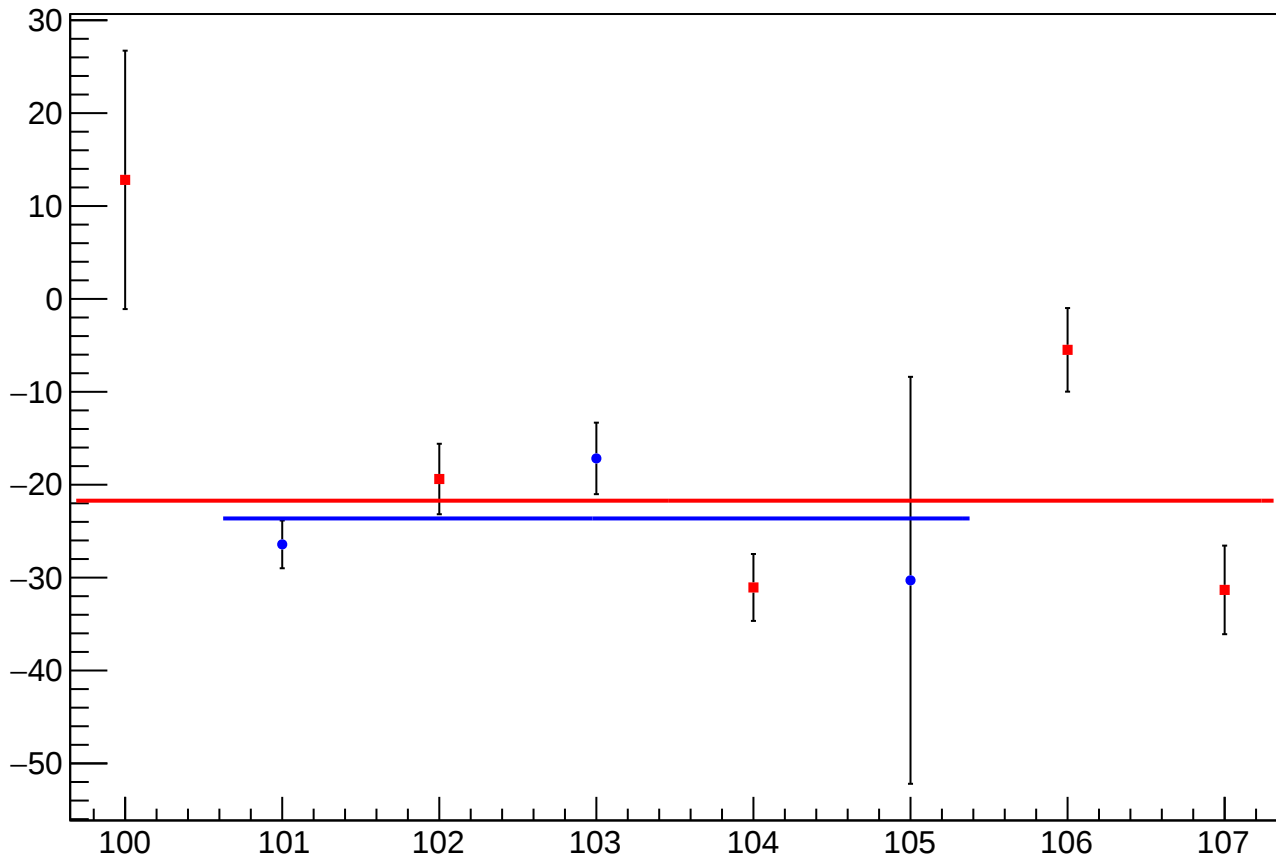
Right Out: -5.019+/-1.106  $\chi^2/\text{NDF}$ : 1.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.501+/-1.167  $\chi^2/\text{NDF}$ : 5.2/2

-5.019+/-1.106  $\chi^2/\text{NDF}$ : 1.0/4

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs slug



Right In:  $-23.631 \pm 2.127$   $\chi^2/\text{NDF}$ : 4.1/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

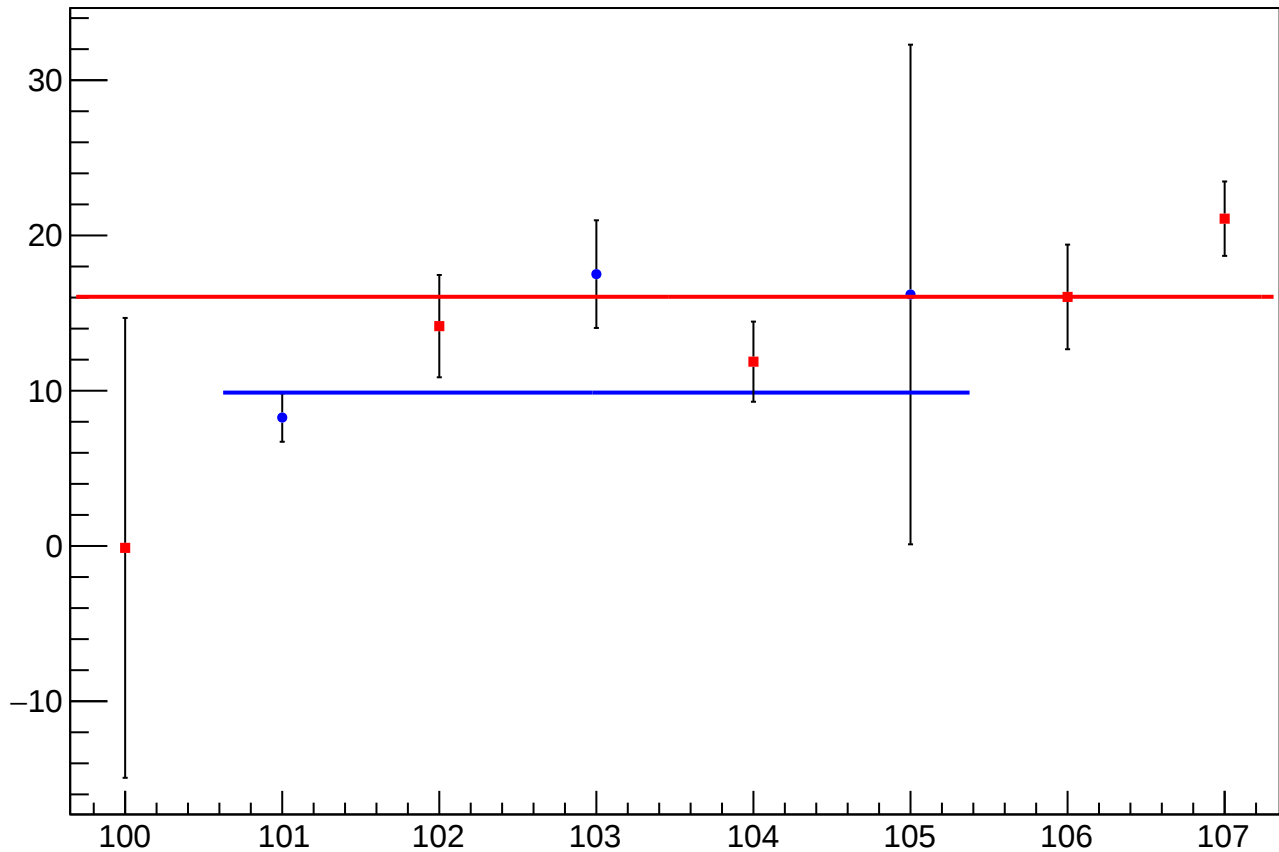
Right Out:  $-21.719 \pm 2.019$   $\chi^2/\text{NDF}$ : 30.3/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-23.631 \pm 2.127$   $\chi^2/\text{NDF}$ : 4.1/2

$-21.719 \pm 2.019$   $\chi^2/\text{NDF}$ : 30.3/4

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs slug



Right In: 9.879+/-1.418  $\chi^2/\text{NDF}$ : 6.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

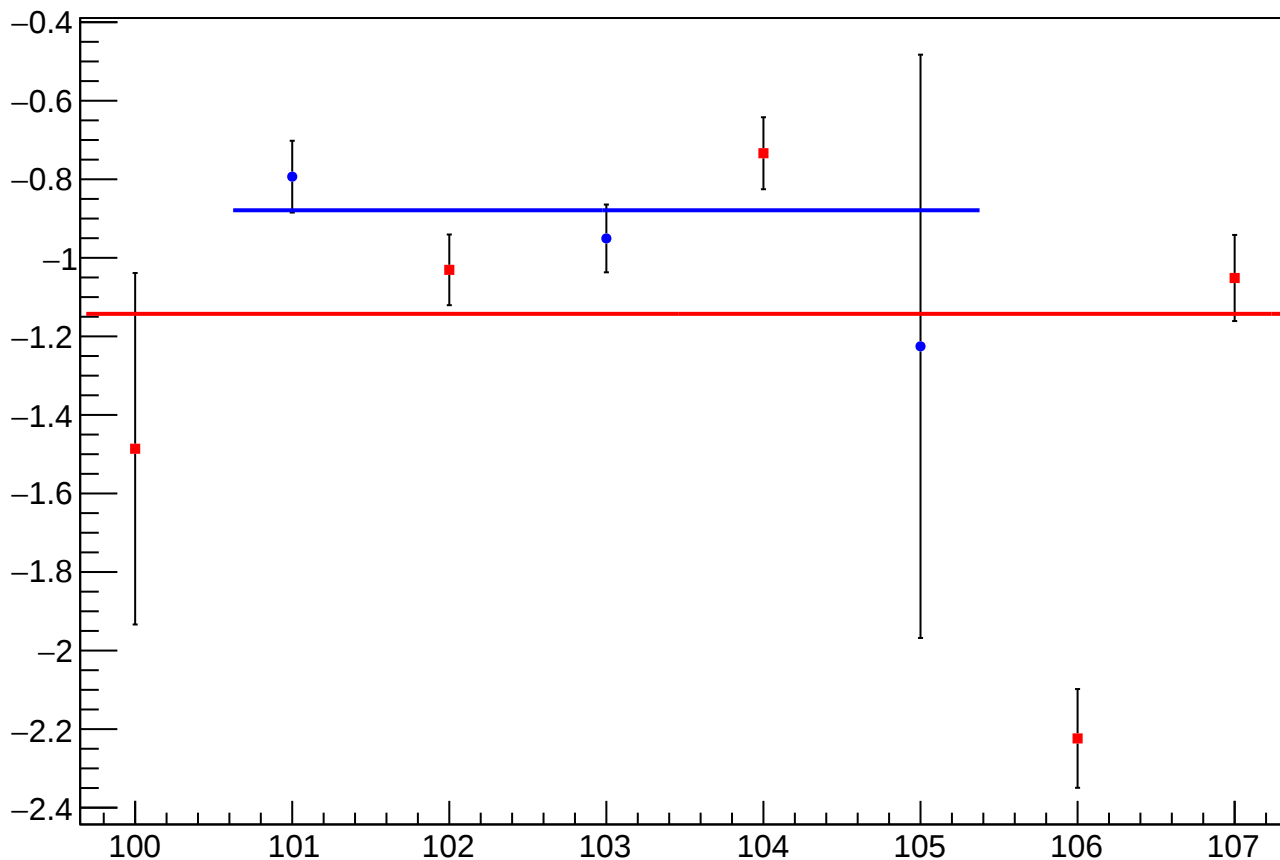
9.879+/-1.418  $\chi^2/\text{NDF}$ : 6.1/2

Right Out: 16.050+/-1.402  $\chi^2/\text{NDF}$ : 8.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

16.050+/-1.402  $\chi^2/\text{NDF}$ : 8.6/4

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs slug



Right In: -0.879+/-0.063  $\chi^2$ /NDF: 1.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

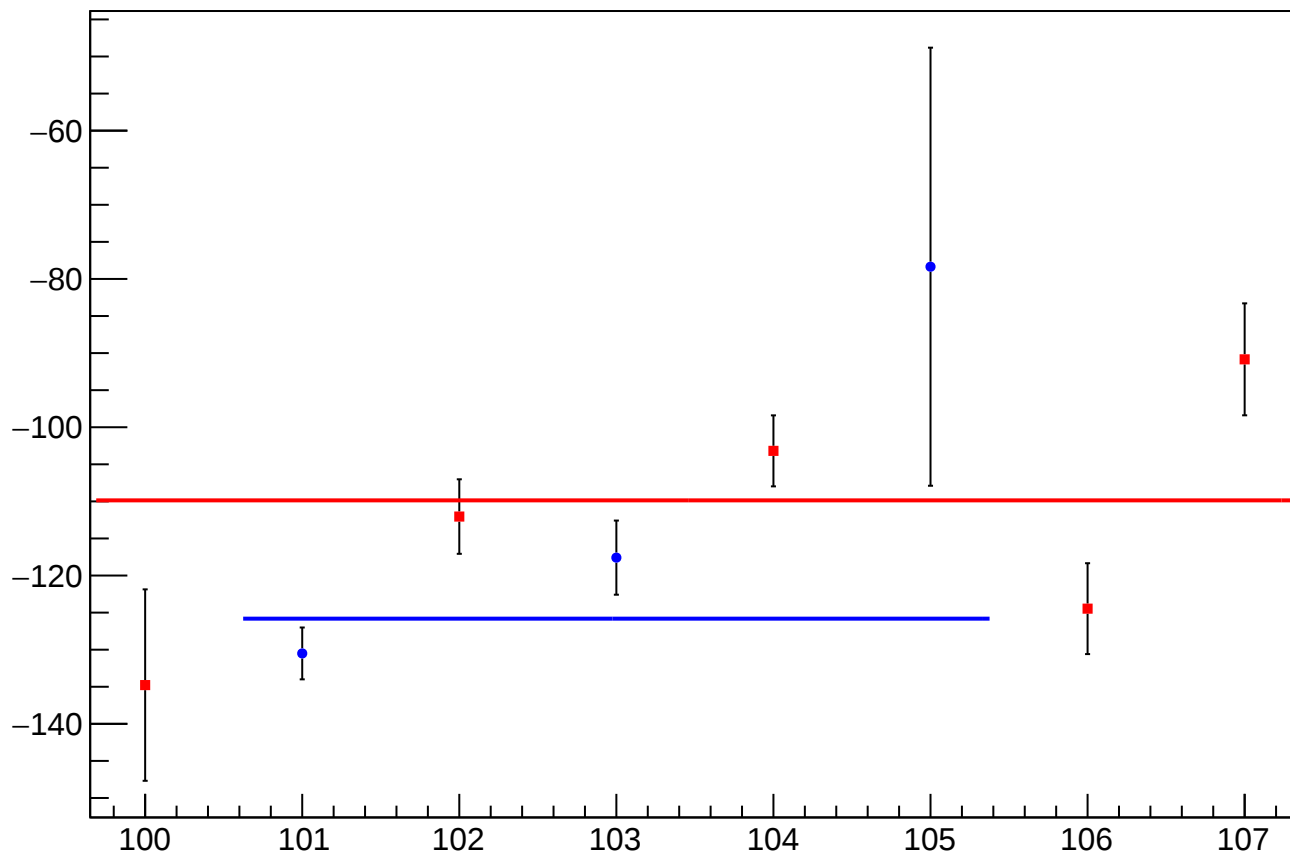
Right Out: -1.143+/-0.050  $\chi^2$ /NDF: 96.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.879+/-0.063  $\chi^2$ /NDF: 1.8/2

-1.143+/-0.050  $\chi^2$ /NDF: 96.7/4

# reg\_asym\_sam4\_diff\_bpm4aX\_slope vs slug



Right In: -125.815 $\pm$ 2.852  $\chi^2$ /NDF: 7.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

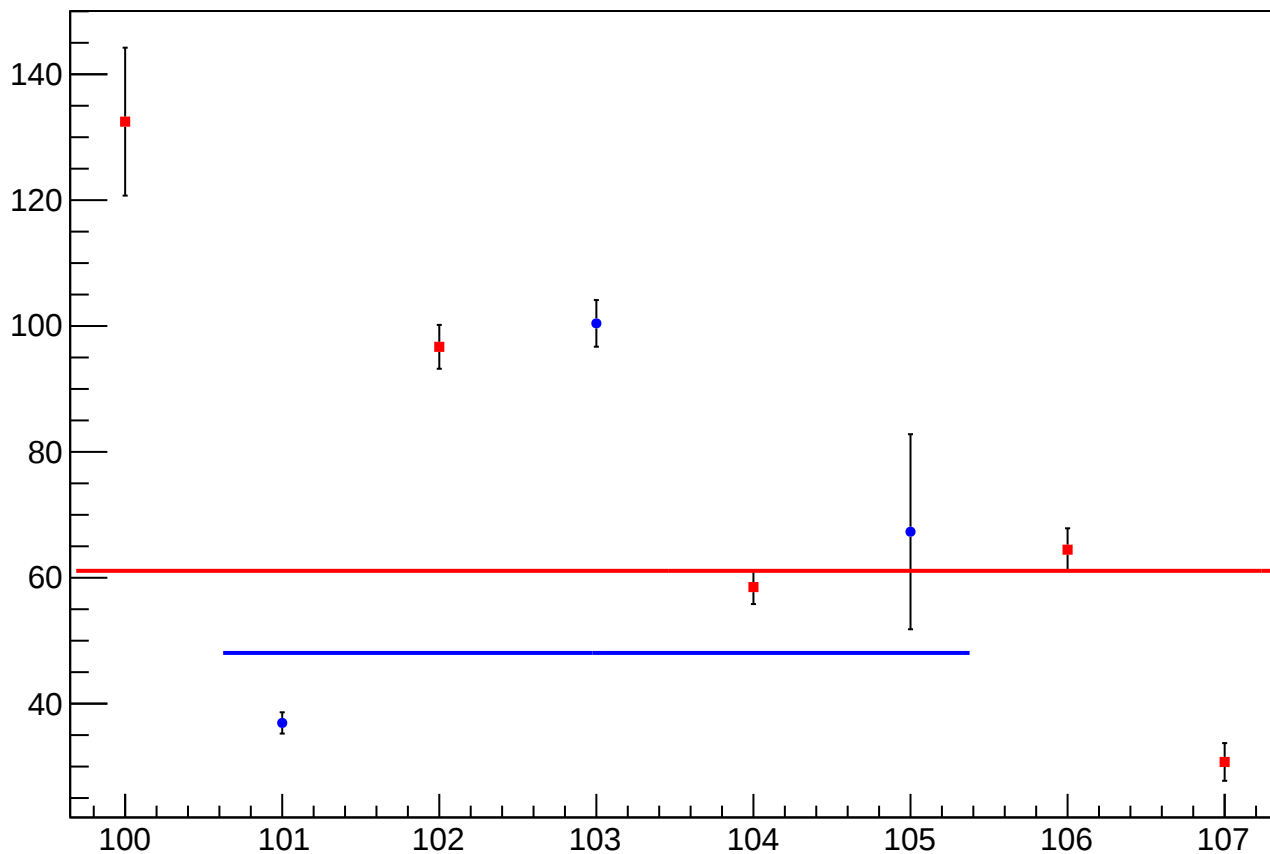
Right Out: -109.862 $\pm$ 2.738  $\chi^2$ /NDF: 17.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-125.815 $\pm$ 2.852  $\chi^2$ /NDF: 7.1/2

-109.862 $\pm$ 2.738  $\chi^2$ /NDF: 17.9/4

# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs slug



Right In: 48.056+/-1.530  $\chi^2/\text{NDF}$ : 244.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

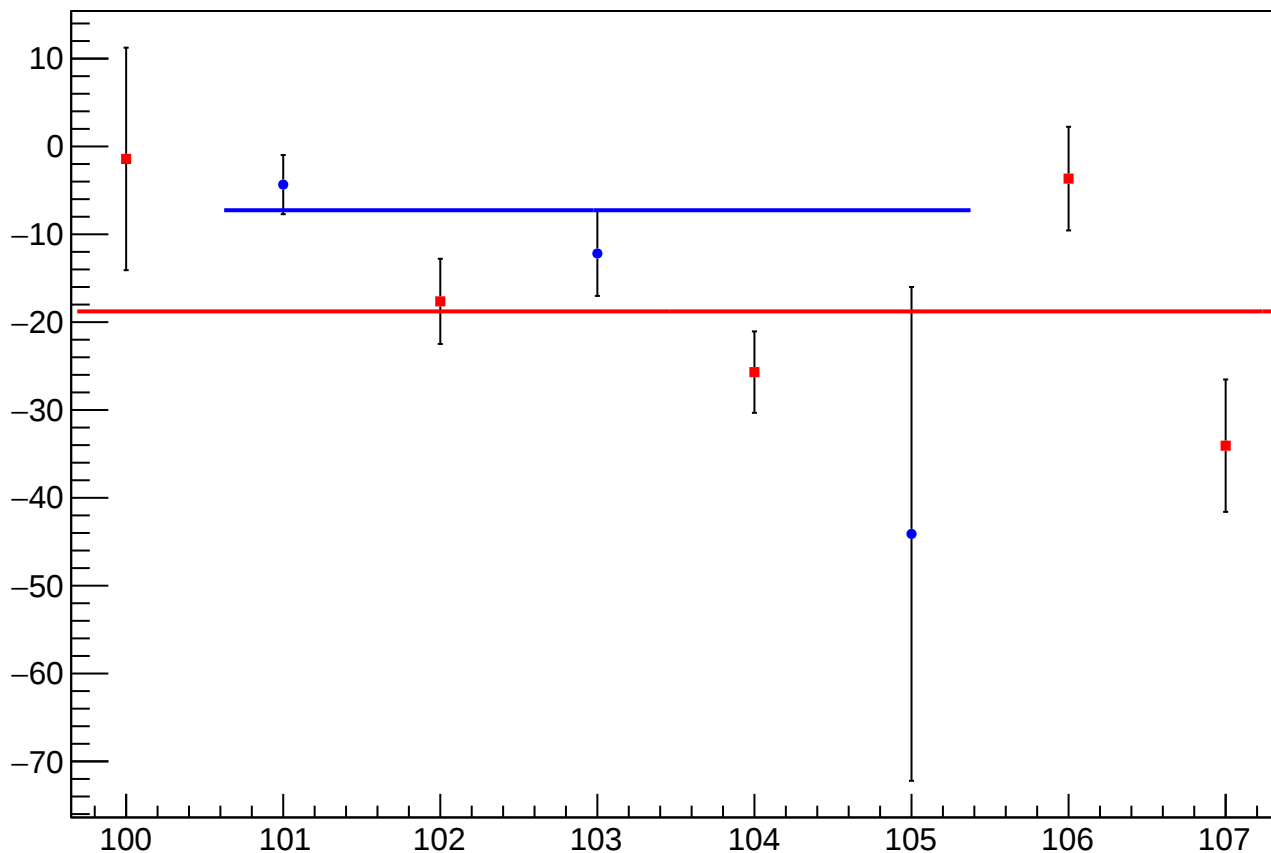
Right Out: 61.101+/-1.535  $\chi^2/\text{NDF}$ : 246.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

48.056+/-1.530  $\chi^2/\text{NDF}$ : 244.7/2

61.101+/-1.535  $\chi^2/\text{NDF}$ : 246.0/4

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs slug



Right In: -7.261 $\pm$ 2.751  $\chi^2$ /NDF: 3.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

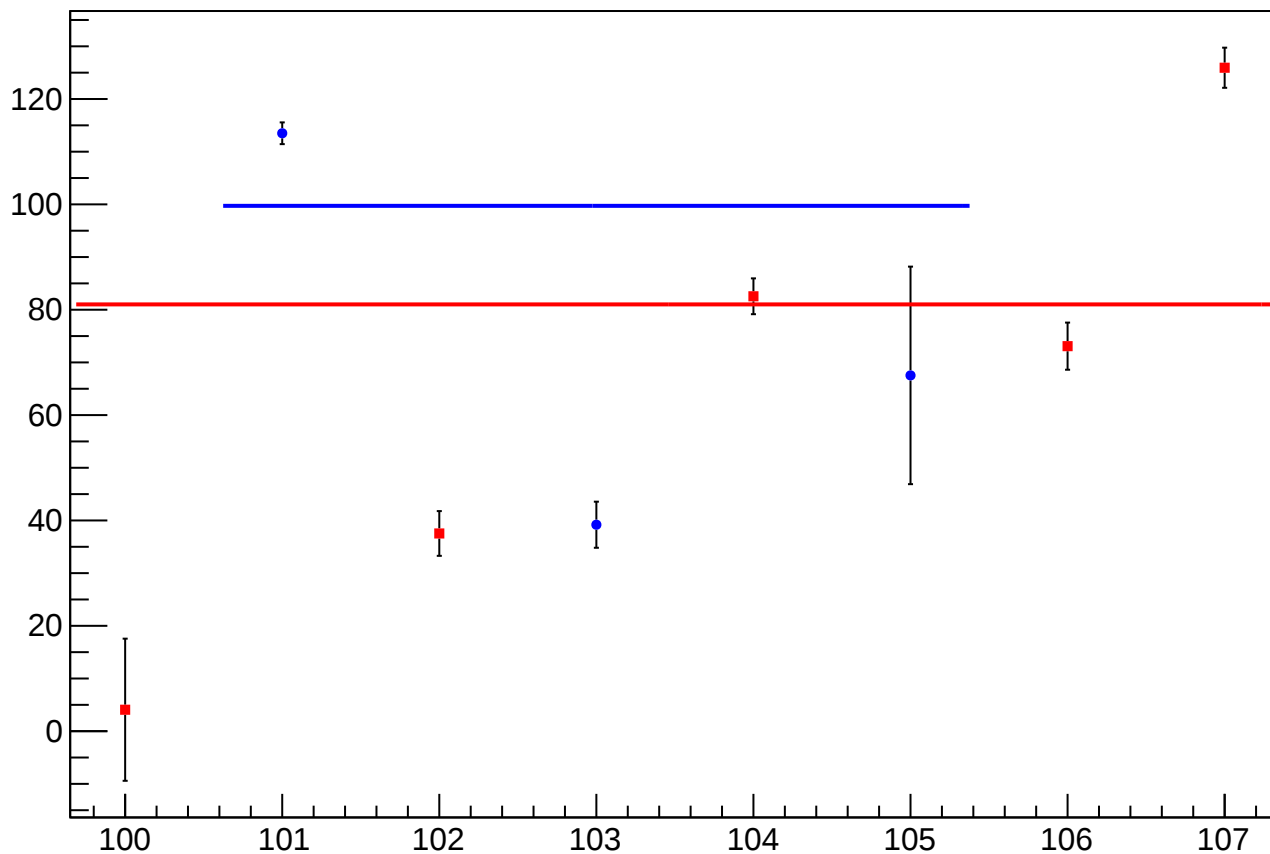
Right Out: -18.776 $\pm$ 2.658  $\chi^2$ /NDF: 14.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-7.261 $\pm$ 2.751  $\chi^2$ /NDF: 3.5/2

-18.776 $\pm$ 2.658  $\chi^2$ /NDF: 14.8/4

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs slug



Right In: 99.721+/-1.858  $\chi^2$ /NDF: 238.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

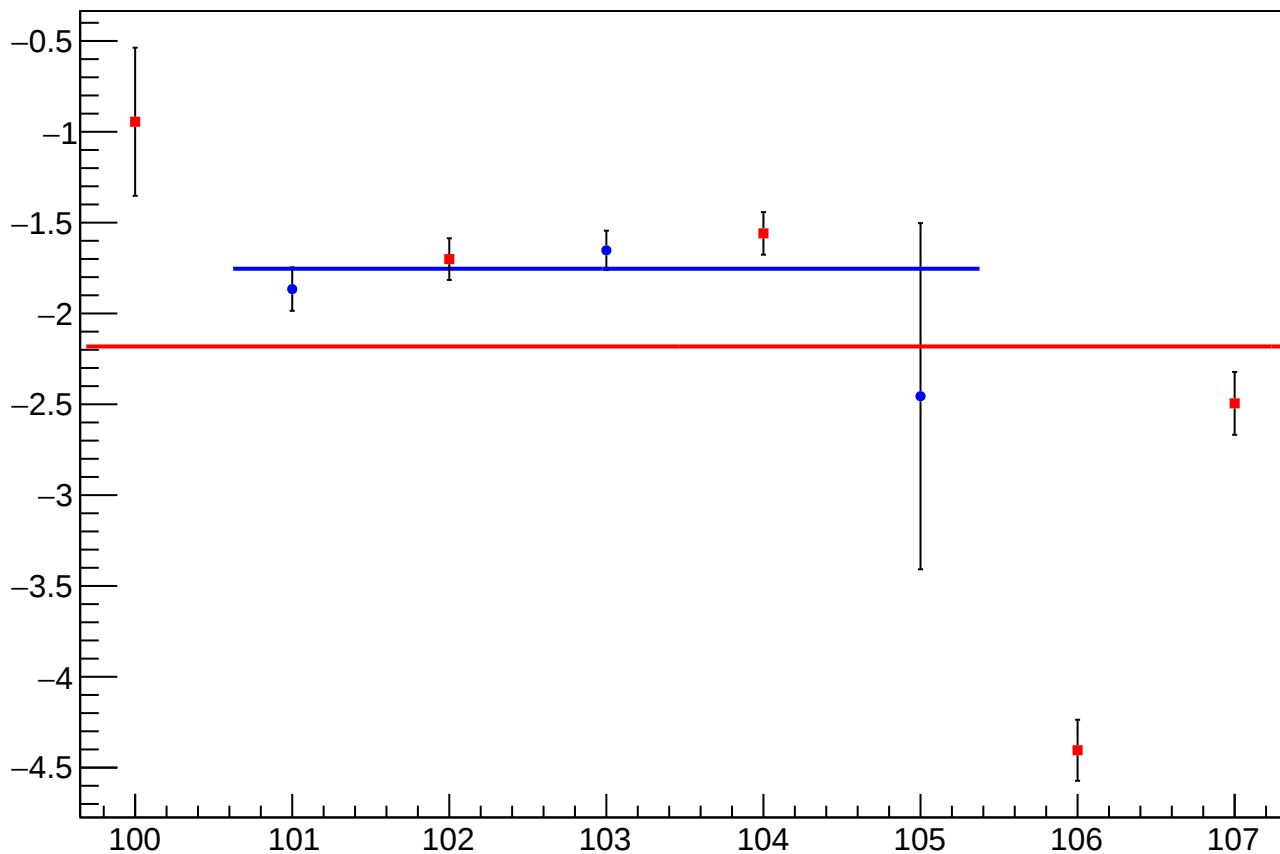
Right Out: 81.011+/-1.938  $\chi^2$ /NDF: 279.8/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

99.721+/-1.858  $\chi^2$ /NDF: 238.4/2

81.011+/-1.938  $\chi^2$ /NDF: 279.8/4

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs slug



Right In: -1.754+/-0.080  $\chi^2/\text{NDF}$ : 2.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

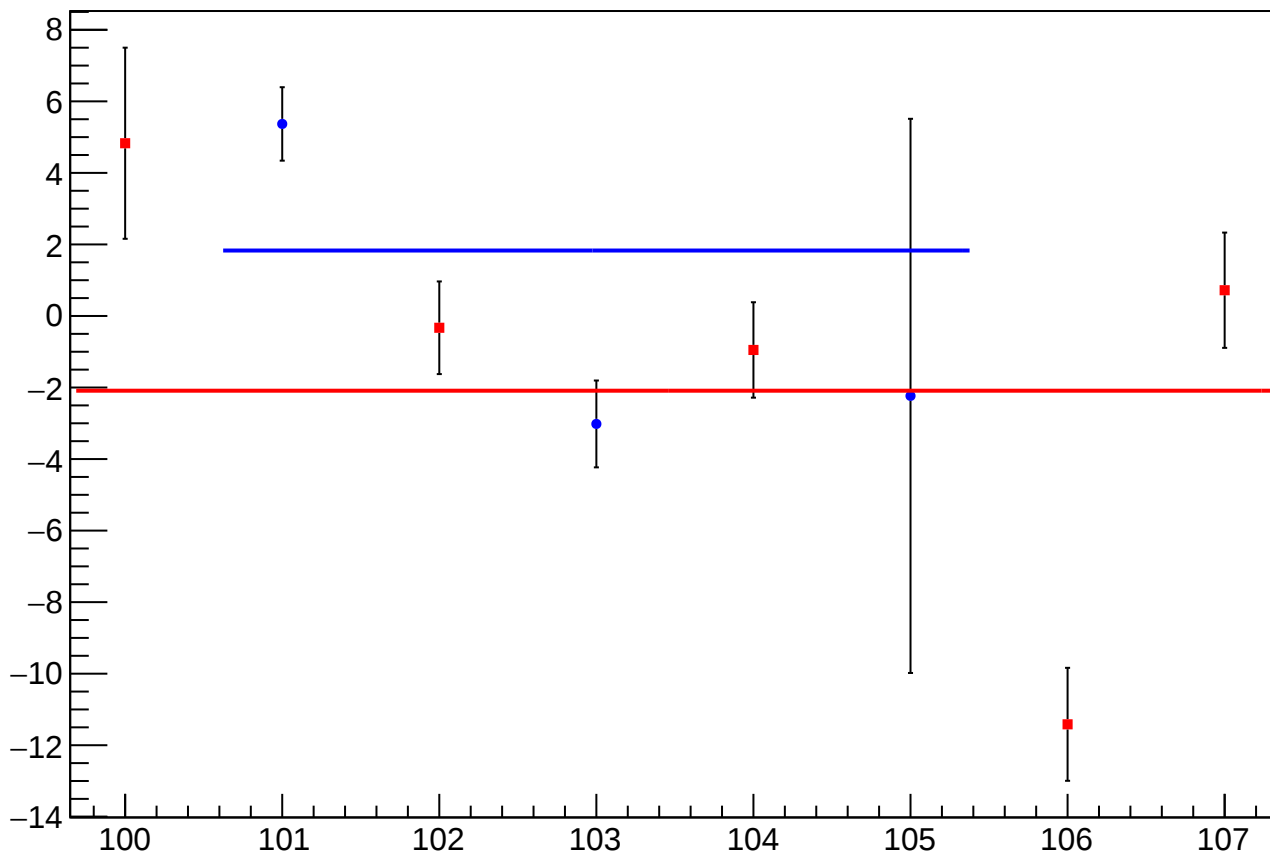
Right Out: -2.182+/-0.067  $\chi^2/\text{NDF}$ : 233.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.754+/-0.080  $\chi^2/\text{NDF}$ : 2.3/2

-2.182+/-0.067  $\chi^2/\text{NDF}$ : 233.3/4

# reg\_asym\_sam5\_diff\_bpm4aX\_slope vs slug



Right In: 1.830+/-0.780  $\chi^2/\text{NDF}$ : 28.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

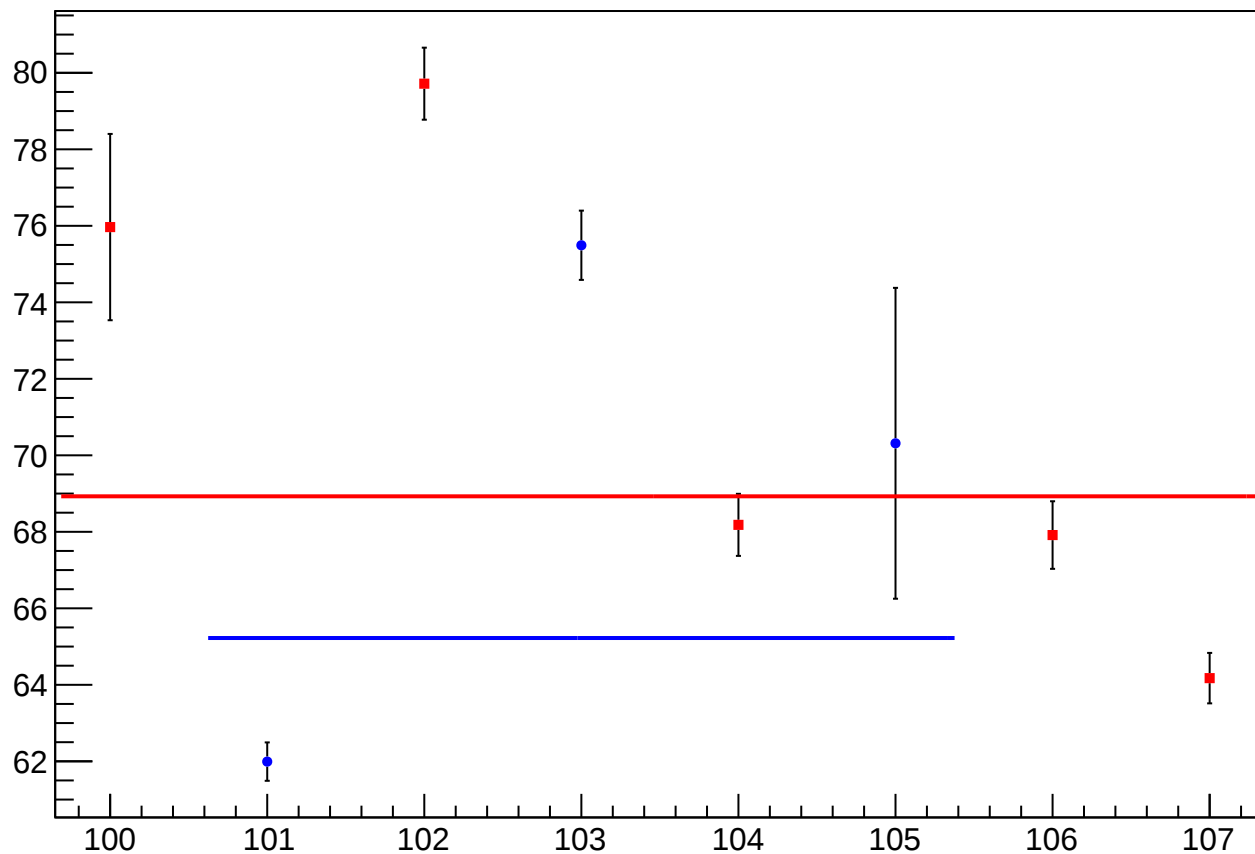
Right Out: -2.089+/-0.693  $\chi^2/\text{NDF}$ : 47.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.830+/-0.780  $\chi^2/\text{NDF}$ : 28.1/2

-2.089+/-0.693  $\chi^2/\text{NDF}$ : 47.2/4

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs slug



Right In: 65.224 $\pm$ 0.436  $\chi^2$ /NDF: 171.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

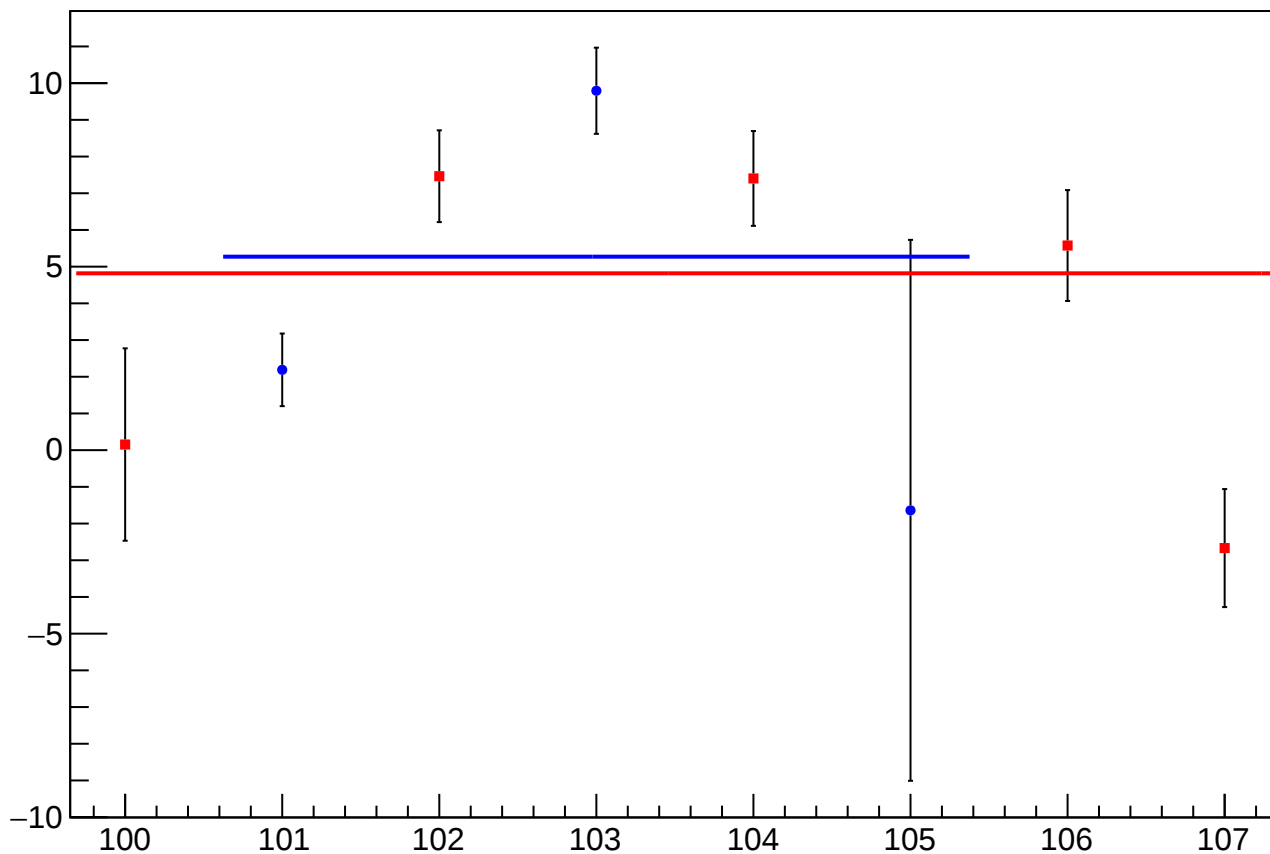
Right Out: 68.928 $\pm$ 0.395  $\chi^2$ /NDF: 193.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

65.224 $\pm$ 0.436  $\chi^2$ /NDF: 171.7/2

68.928 $\pm$ 0.395  $\chi^2$ /NDF: 193.7/4

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs slug



Right In: 5.272 $\pm$ 0.753  $\chi^2$ /NDF: 25.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

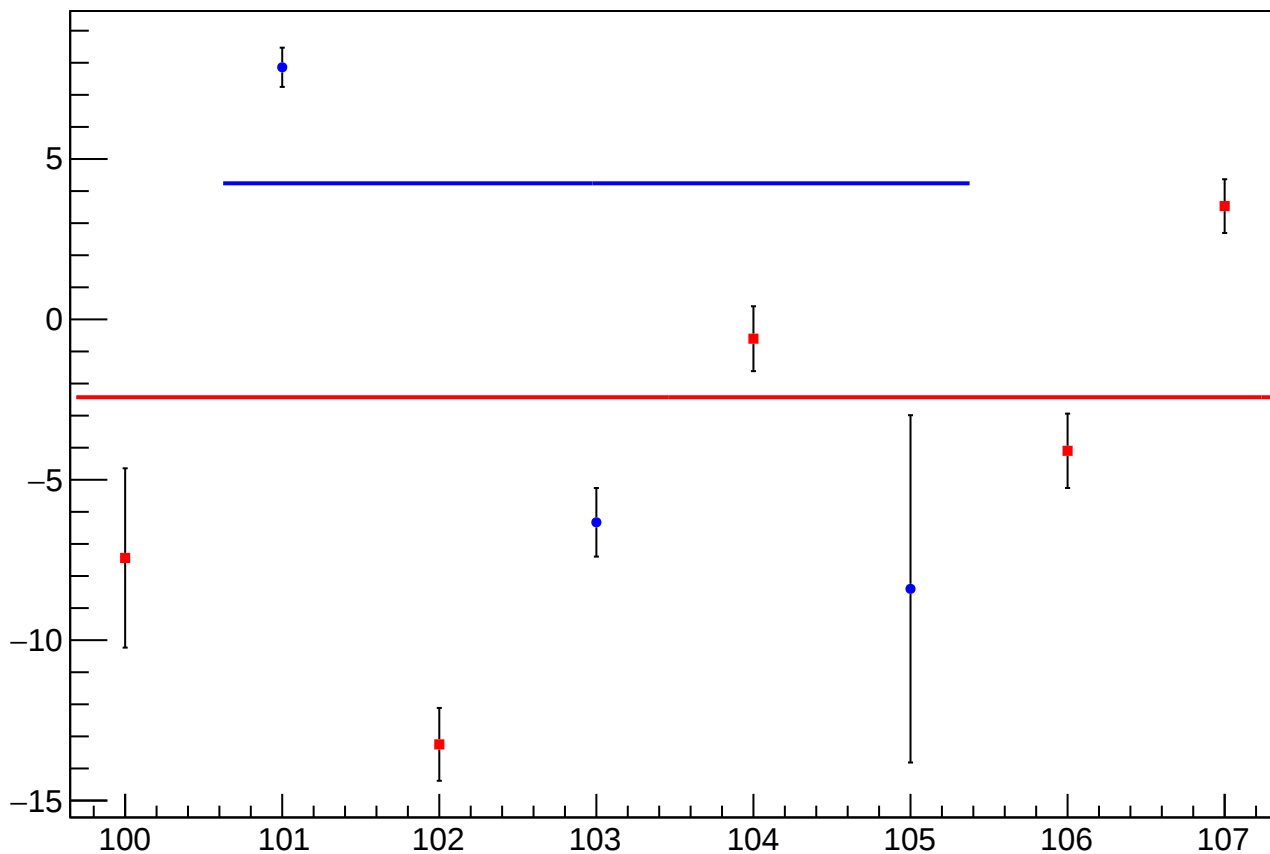
Right Out: 4.818 $\pm$ 0.673  $\chi^2$ /NDF: 33.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

5.272 $\pm$ 0.753  $\chi^2$ /NDF: 25.4/2

4.818 $\pm$ 0.673  $\chi^2$ /NDF: 33.6/4

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs slug



Right In: 4.243+/-0.528  $\chi^2/\text{NDF}$ : 138.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

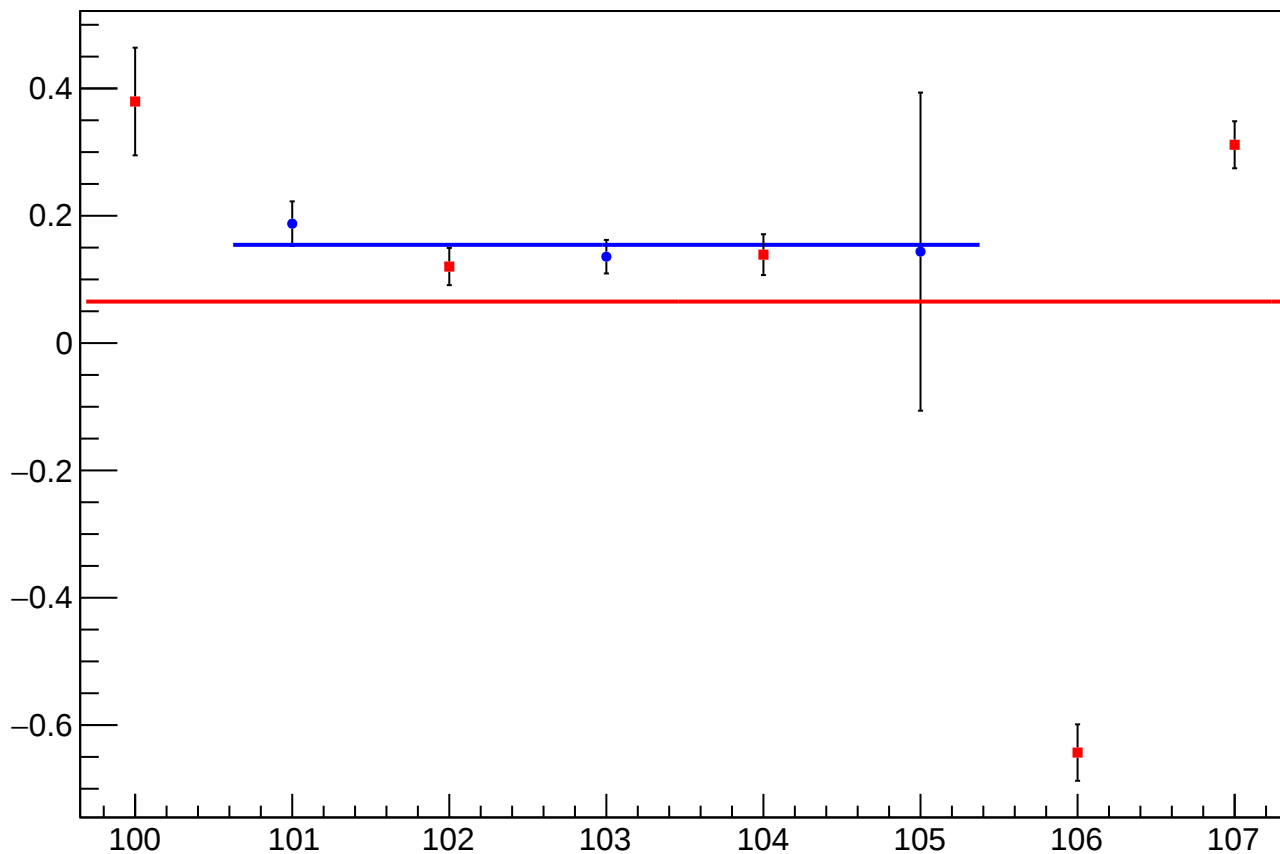
Right Out: -2.426+/-0.497  $\chi^2/\text{NDF}$ : 150.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.243+/-0.528  $\chi^2/\text{NDF}$ : 138.1/2

-2.426+/-0.497  $\chi^2/\text{NDF}$ : 150.0/4

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs slug



Right In: 0.154 $\pm$ 0.021  $\chi^2$ /NDF: 1.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

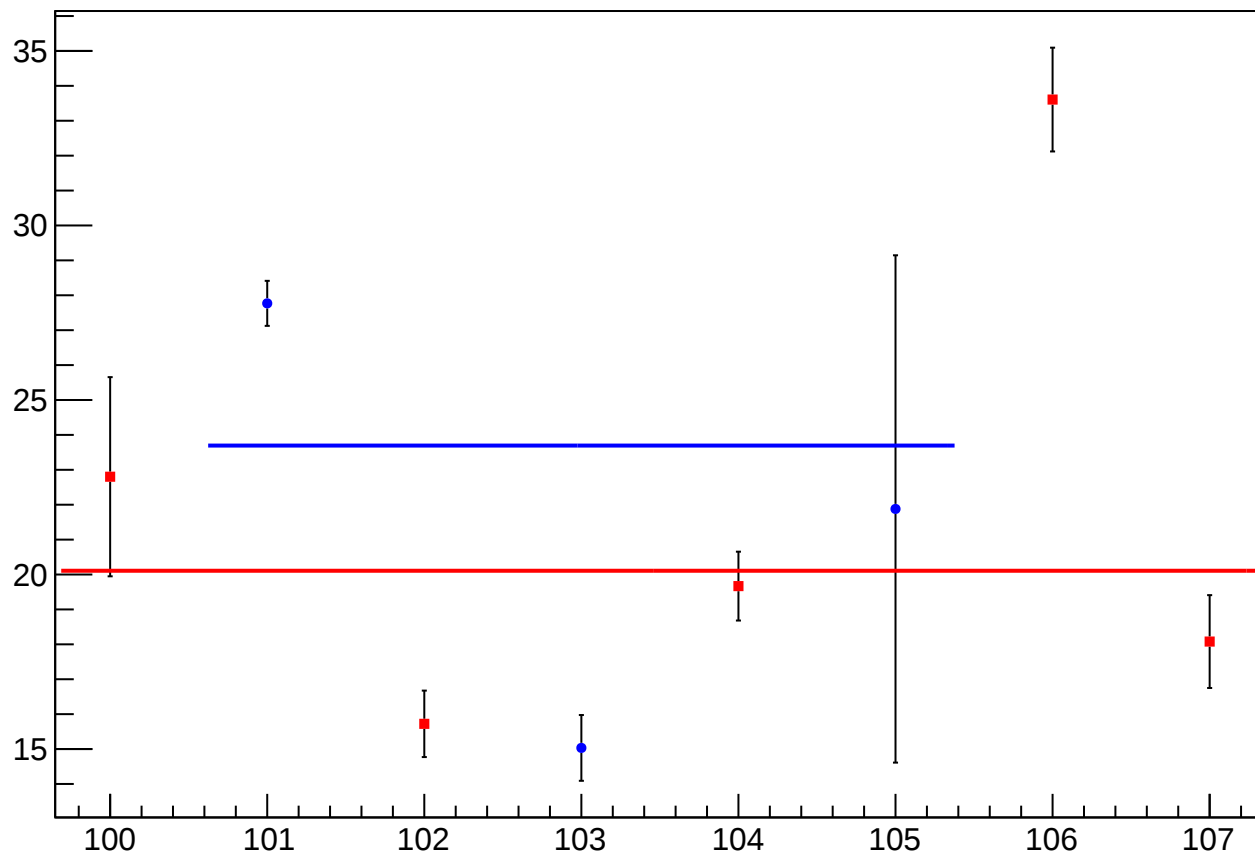
Right Out: 0.065 $\pm$ 0.017  $\chi^2$ /NDF: 322.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.154 $\pm$ 0.021  $\chi^2$ /NDF: 1.4/2

0.065 $\pm$ 0.017  $\chi^2$ /NDF: 322.4/4

# reg\_asym\_sam6\_diff\_bpm4aX\_slope vs slug



Right In: 23.694 $\pm$ 0.531  $\chi^2$ /NDF: 124.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

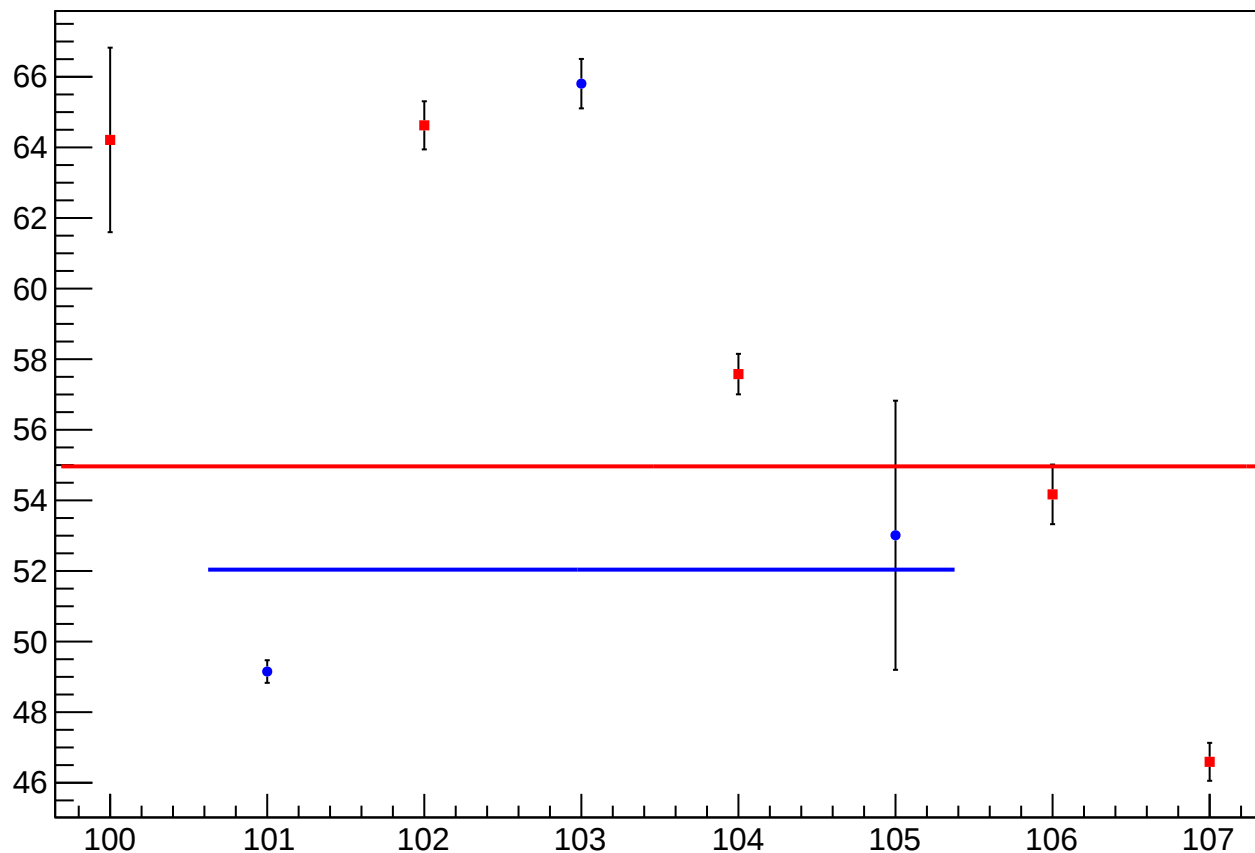
Right Out: 20.108 $\pm$ 0.553  $\chi^2$ /NDF: 107.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

23.694 $\pm$ 0.531  $\chi^2$ /NDF: 124.5/2

20.108 $\pm$ 0.553  $\chi^2$ /NDF: 107.1/4

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs slug



Right In: 52.038+/-0.290  $\chi^2/\text{NDF}$ : 467.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

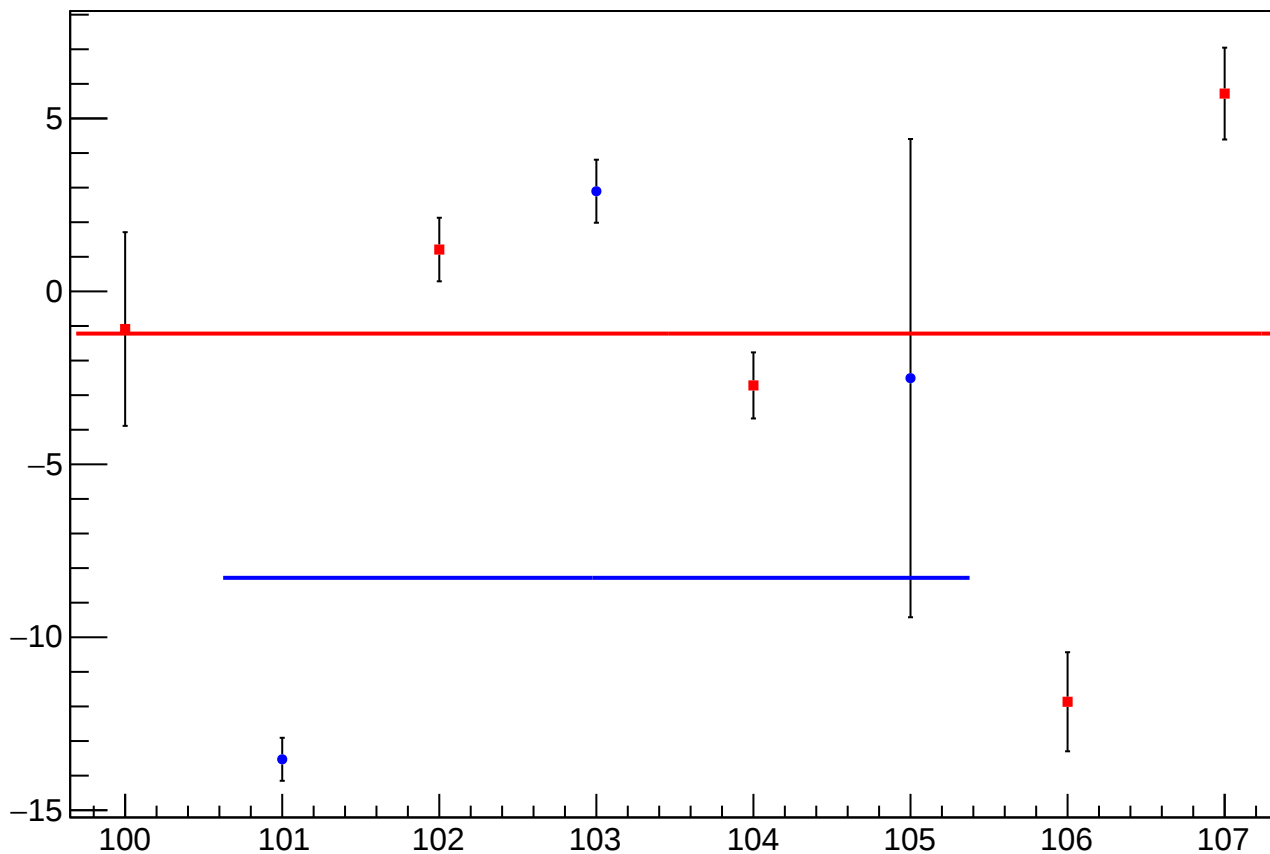
Right Out: 54.964+/-0.313  $\chi^2/\text{NDF}$ : 477.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

52.038+/-0.290  $\chi^2/\text{NDF}$ : 467.8/2

54.964+/-0.313  $\chi^2/\text{NDF}$ : 477.5/4

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs slug



Right In: -8.281+/-0.512  $\chi^2/\text{NDF}$ : 222.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

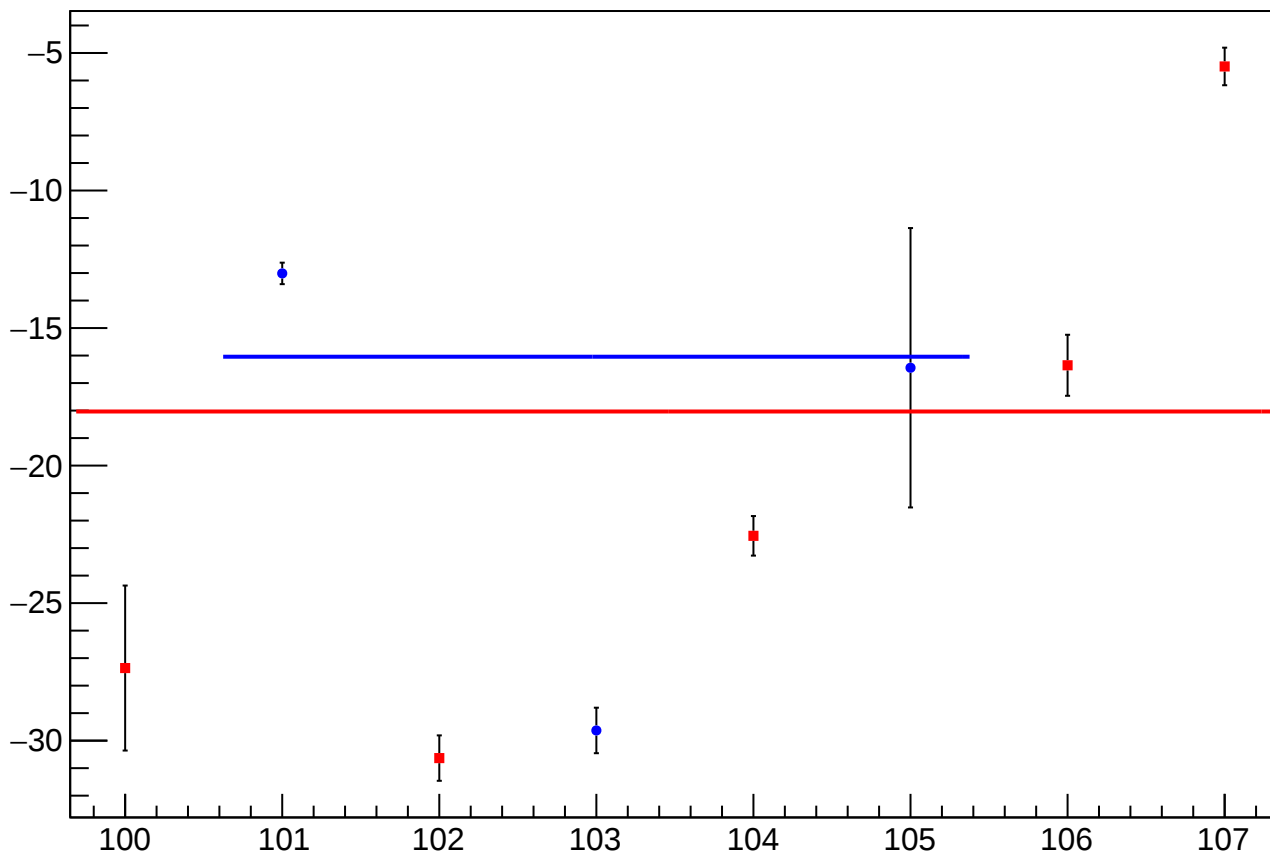
Right Out: -1.220+/-0.537  $\chi^2/\text{NDF}$ : 92.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-8.281+/-0.512  $\chi^2/\text{NDF}$ : 222.4/2

-1.220+/-0.537  $\chi^2/\text{NDF}$ : 92.0/4

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs slug



Right In:  $-16.042 \pm 0.352$   $\chi^2/\text{NDF}: 330.0/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

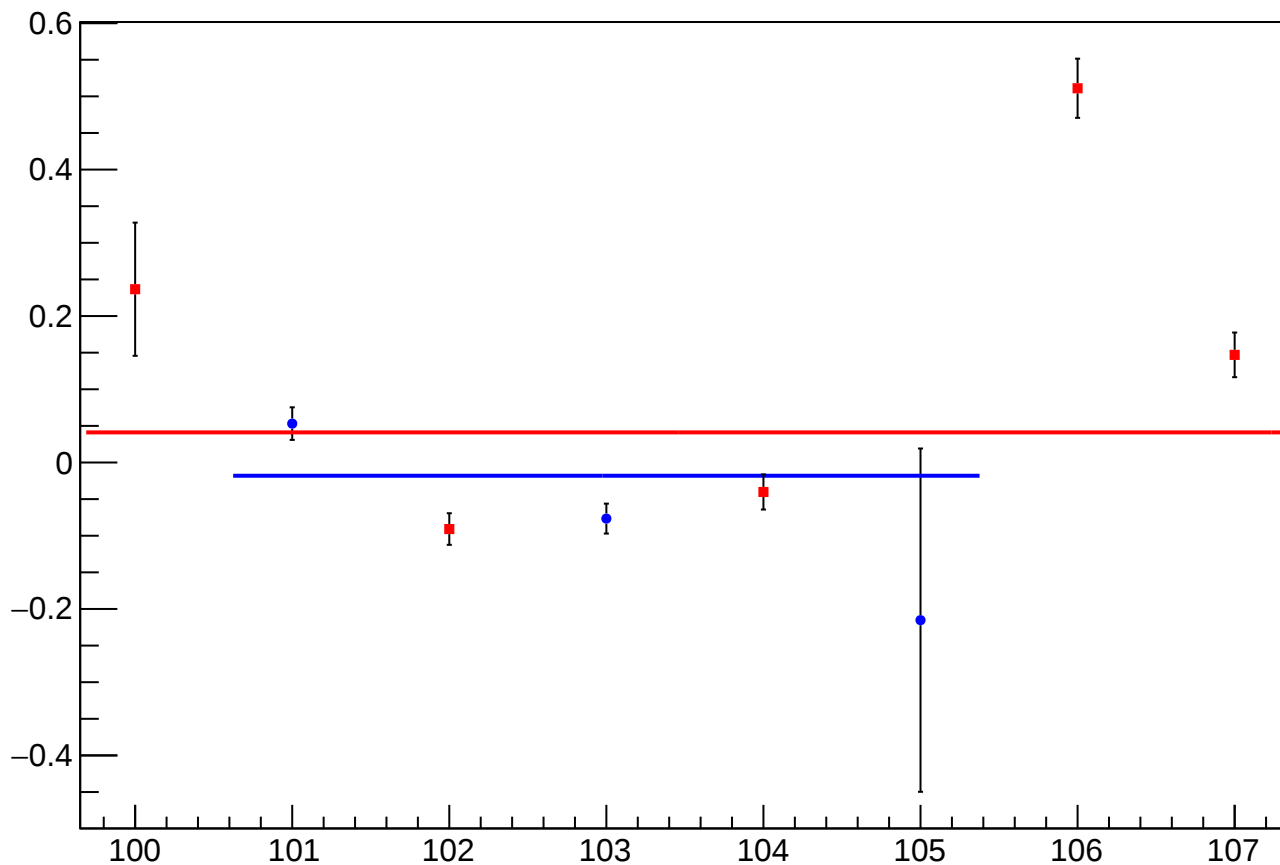
Right Out:  $-18.034 \pm 0.393$   $\chi^2/\text{NDF}: 622.0/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-16.042 \pm 0.352$   $\chi^2/\text{NDF}: 330.0/2$

$-18.034 \pm 0.393$   $\chi^2/\text{NDF}: 622.0/4$

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs slug



Right In:  $-0.018 \pm 0.015$   $\chi^2/\text{NDF}: 19.2/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

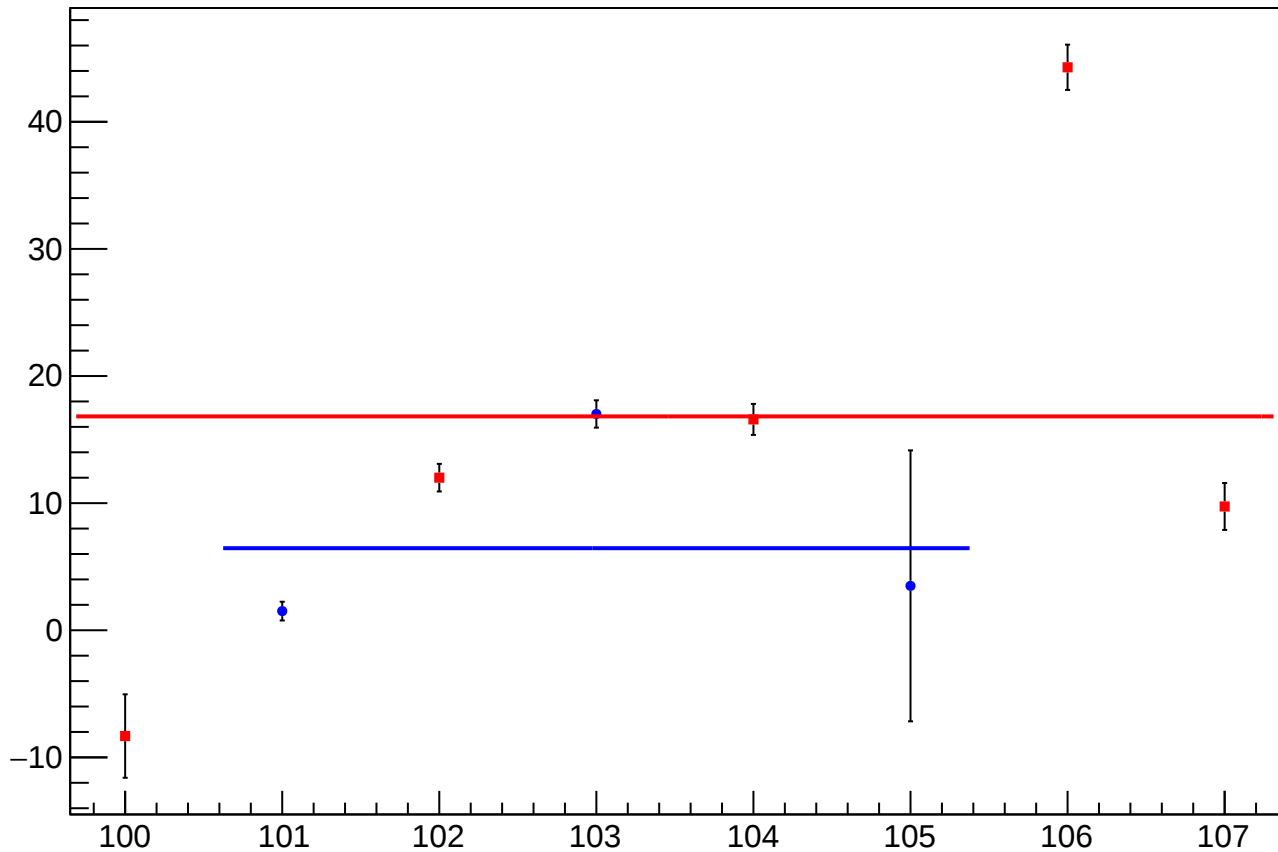
Right Out:  $0.041 \pm 0.013$   $\chi^2/\text{NDF}: 200.9/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.018 \pm 0.015$   $\chi^2/\text{NDF}: 19.2/2$

$0.041 \pm 0.013$   $\chi^2/\text{NDF}: 200.9/4$

# reg\_asym\_sam7\_diff\_bpm4aX\_slope vs slug



Right In: 6.457+/-0.607  $\chi^2/\text{NDF}$ : 141.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

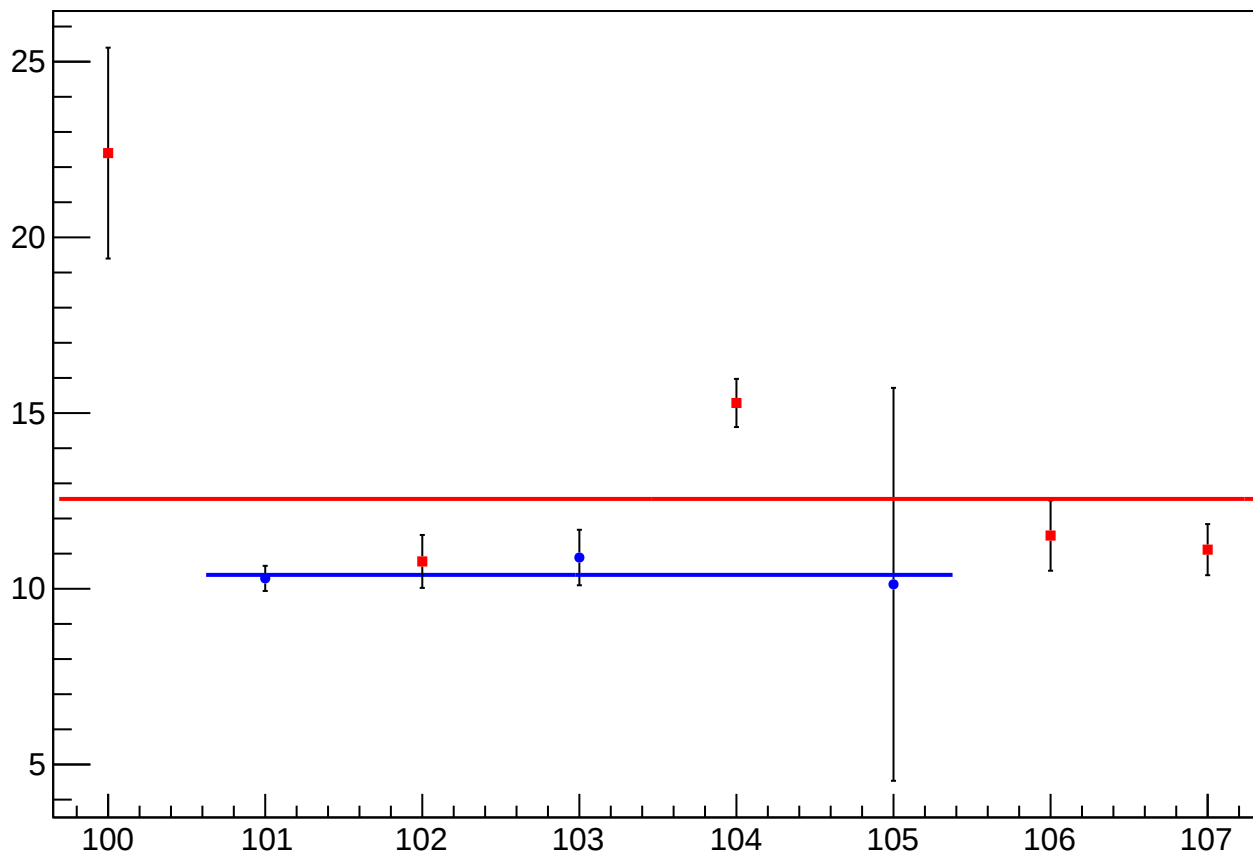
Right Out: 16.824+/-0.670  $\chi^2/\text{NDF}$ : 331.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6.457+/-0.607  $\chi^2/\text{NDF}$ : 141.7/2

16.824+/-0.670  $\chi^2/\text{NDF}$ : 331.2/4

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs slug



Right In: 10.396+/-0.325  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

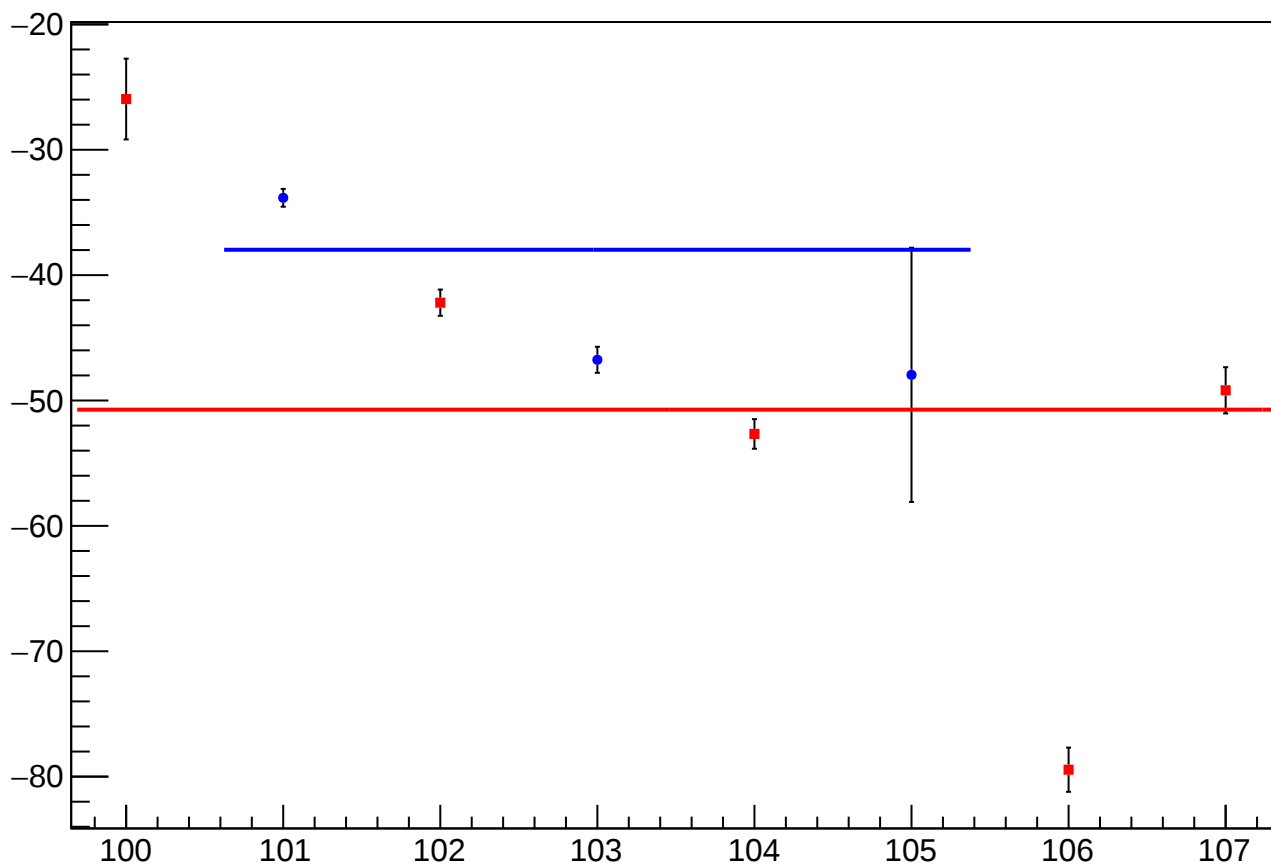
Right Out: 12.557+/-0.381  $\chi^2$ /NDF: 37.2/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

10.396+/-0.325  $\chi^2$ /NDF: 0.5/2

12.557+/-0.381  $\chi^2$ /NDF: 37.2/4

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs slug



Right In: -37.976+/-0.585  $\chi^2/\text{NDF}$ : 106.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

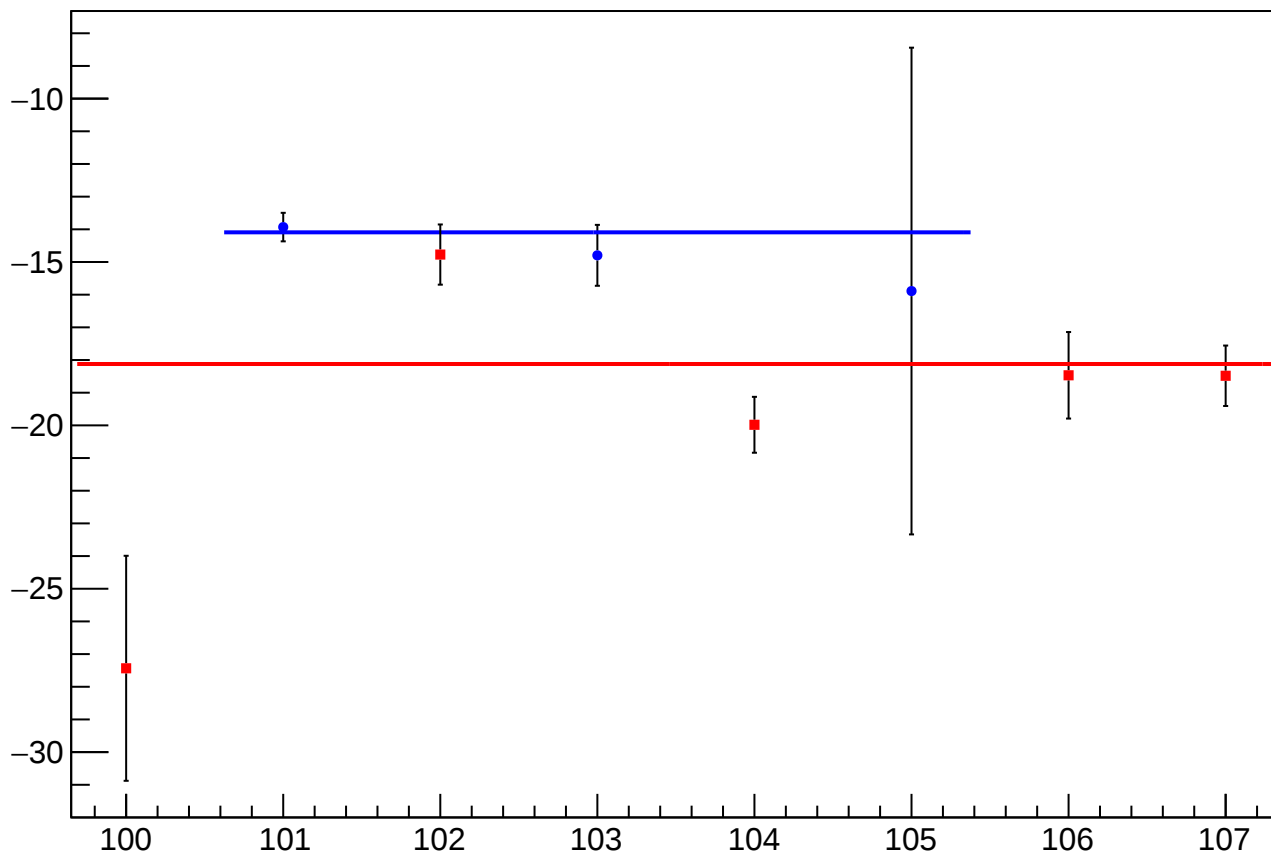
Right Out: -50.730+/-0.653  $\chi^2/\text{NDF}$ : 394.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-37.976+/-0.585  $\chi^2/\text{NDF}$ : 106.3/2

-50.730+/-0.653  $\chi^2/\text{NDF}$ : 394.2/4

# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs slug



Right In: -14.092+/-0.395  $\chi^2/\text{NDF}$ : 0.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

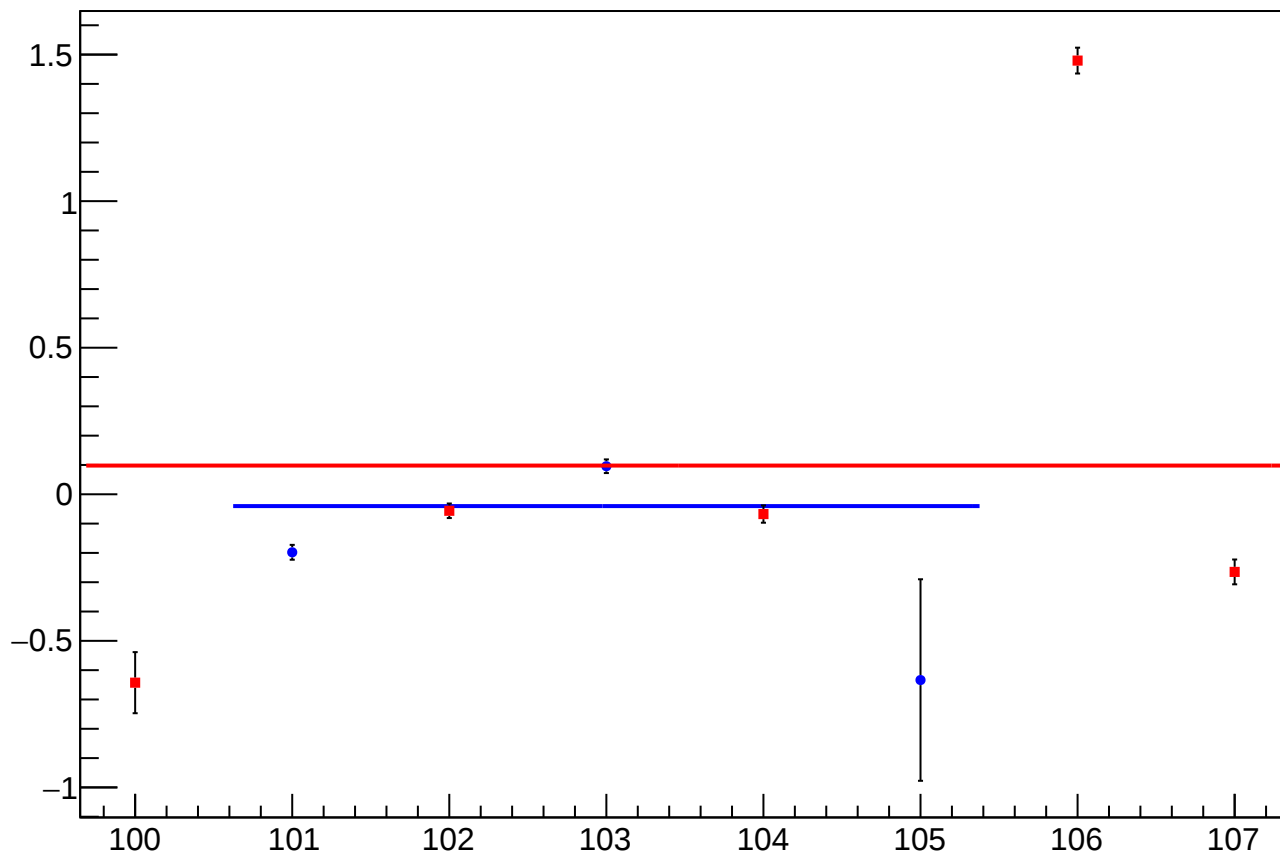
Right Out: -18.122+/-0.478  $\chi^2/\text{NDF}$ : 25.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-14.092+/-0.395  $\chi^2/\text{NDF}$ : 0.8/2

-18.122+/-0.478  $\chi^2/\text{NDF}$ : 25.5/4

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs slug



Right In: -0.040±/-0.017  $\chi^2/\text{NDF}$ : 75.7/2

Left Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

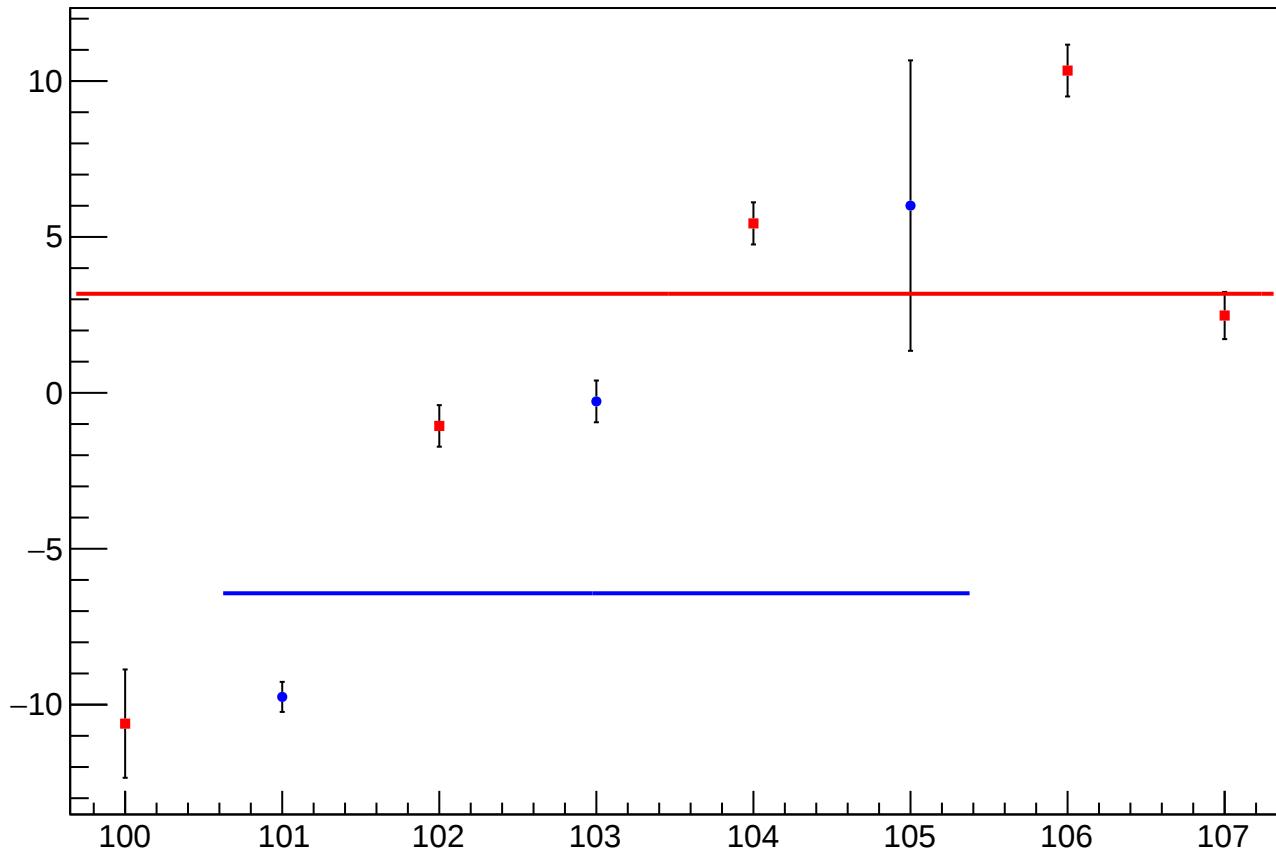
Right Out: 0.098±/-0.016  $\chi^2/\text{NDF}$ : 1176.9/4

Left In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.040±/-0.017  $\chi^2/\text{NDF}$ : 75.7/2

0.098±/-0.016  $\chi^2/\text{NDF}$ : 1176.9/4

# reg\_asym\_sam8\_diff\_bpm4aX\_slope vs slug



Right In: -6.428+/-0.390  $\chi^2/\text{NDF}$ : 139.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

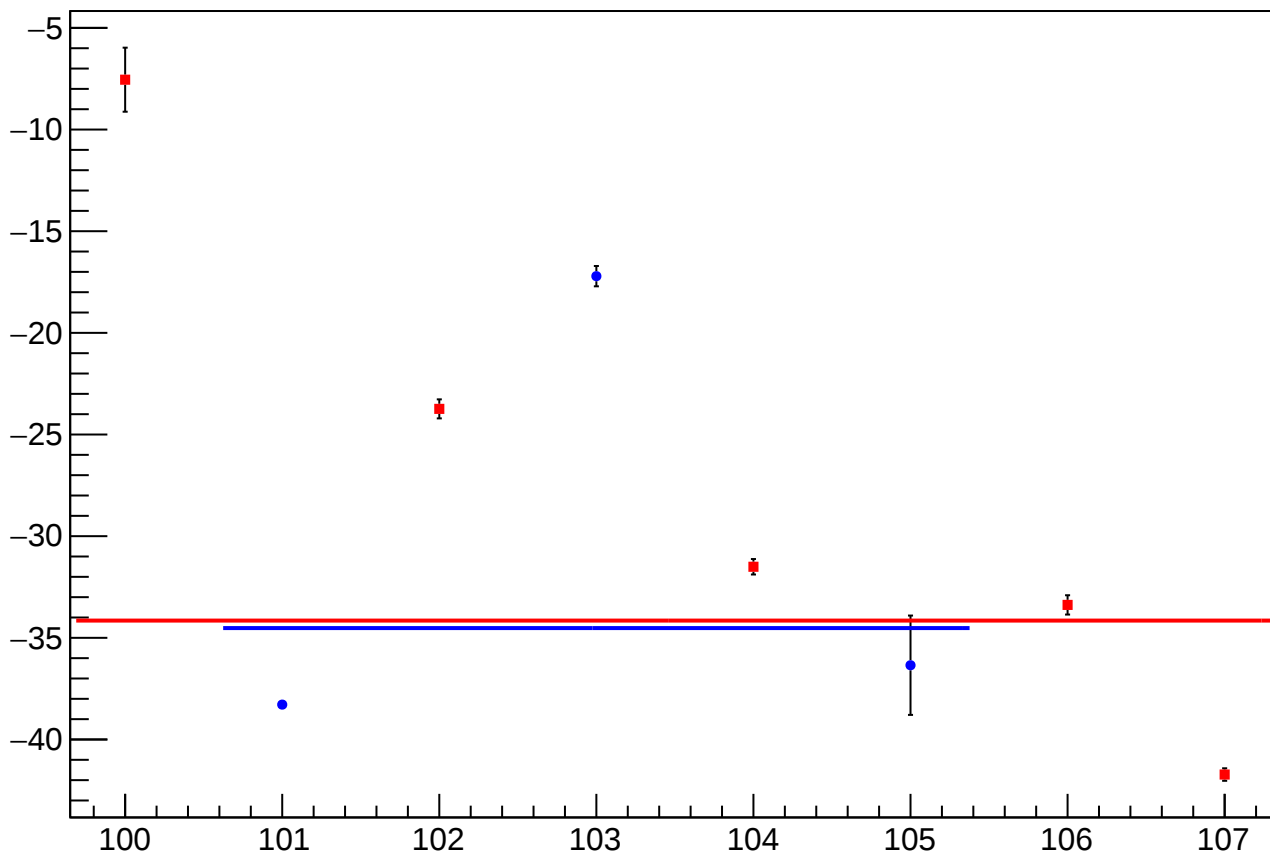
Right Out: 3.178+/-0.354  $\chi^2/\text{NDF}$ : 189.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.428+/-0.390  $\chi^2/\text{NDF}$ : 139.2/2

3.178+/-0.354  $\chi^2/\text{NDF}$ : 189.7/4

reg\_asym\_sam8\_diff\_bpm4aY\_slope vs slug



Right In:  $-34.520 \pm 0.211$   $\chi^2/\text{NDF}: 1459.4/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

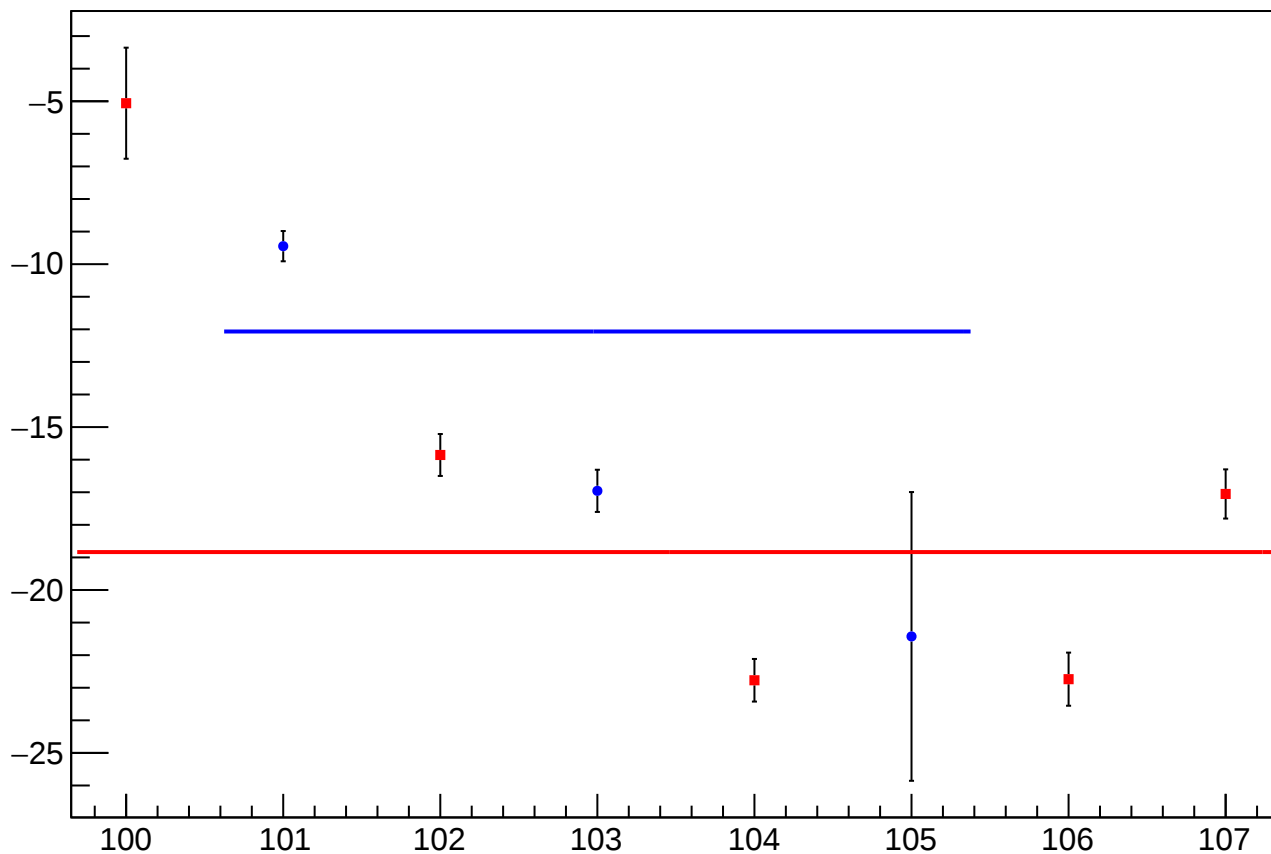
Right Out:  $-34.151 \pm 0.193$   $\chi^2/\text{NDF}: 1437.0/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-34.520 \pm 0.211$   $\chi^2/\text{NDF}: 1459.4/2$

$-34.151 \pm 0.193$   $\chi^2/\text{NDF}: 1437.0/4$

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs slug



Right In: -12.066+/-0.376  $\chi^2/\text{NDF}$ : 93.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

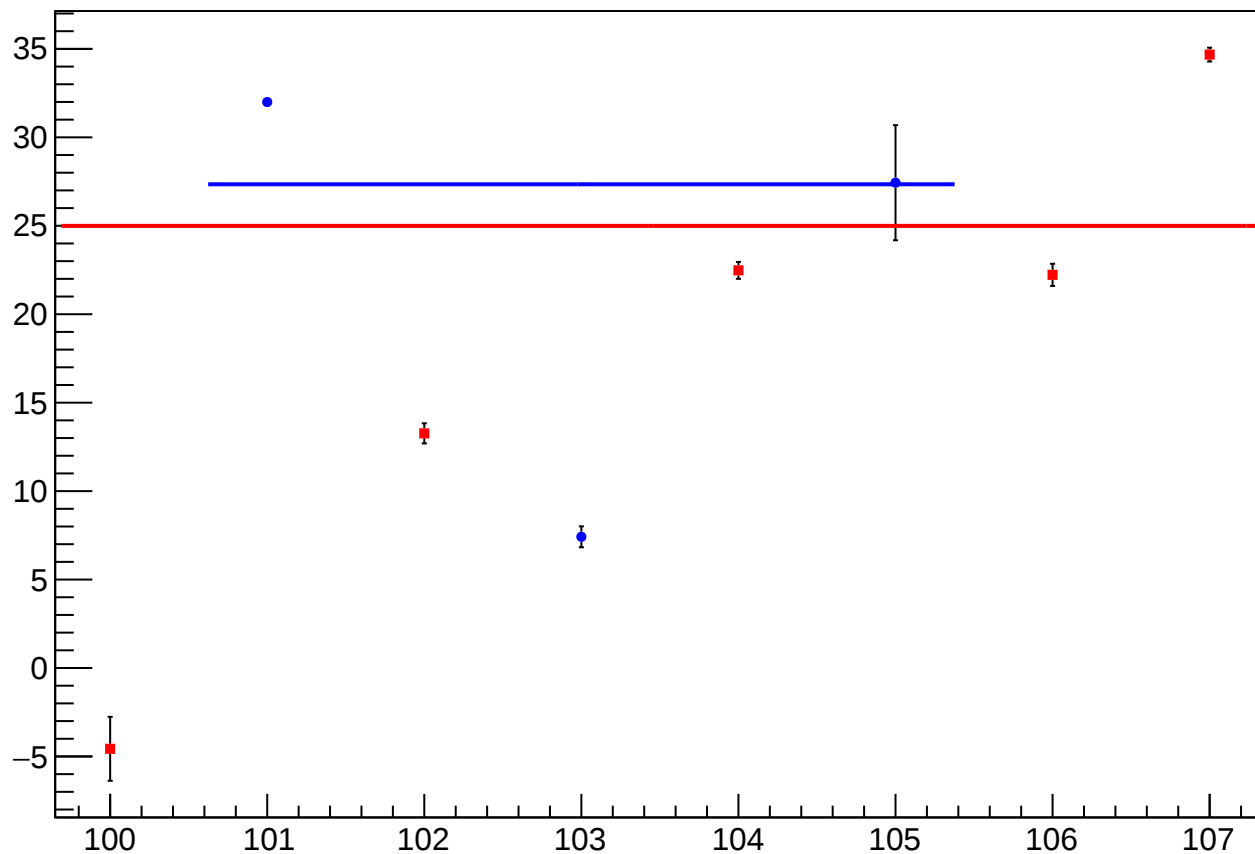
Right Out: -18.836+/-0.346  $\chi^2/\text{NDF}$ : 151.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-12.066+/-0.376  $\chi^2/\text{NDF}$ : 93.3/2

-18.836+/-0.346  $\chi^2/\text{NDF}$ : 151.4/4

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs slug



Right In: 27.346 $\pm$ 0.256  $\chi^2$ /NDF: 1404.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

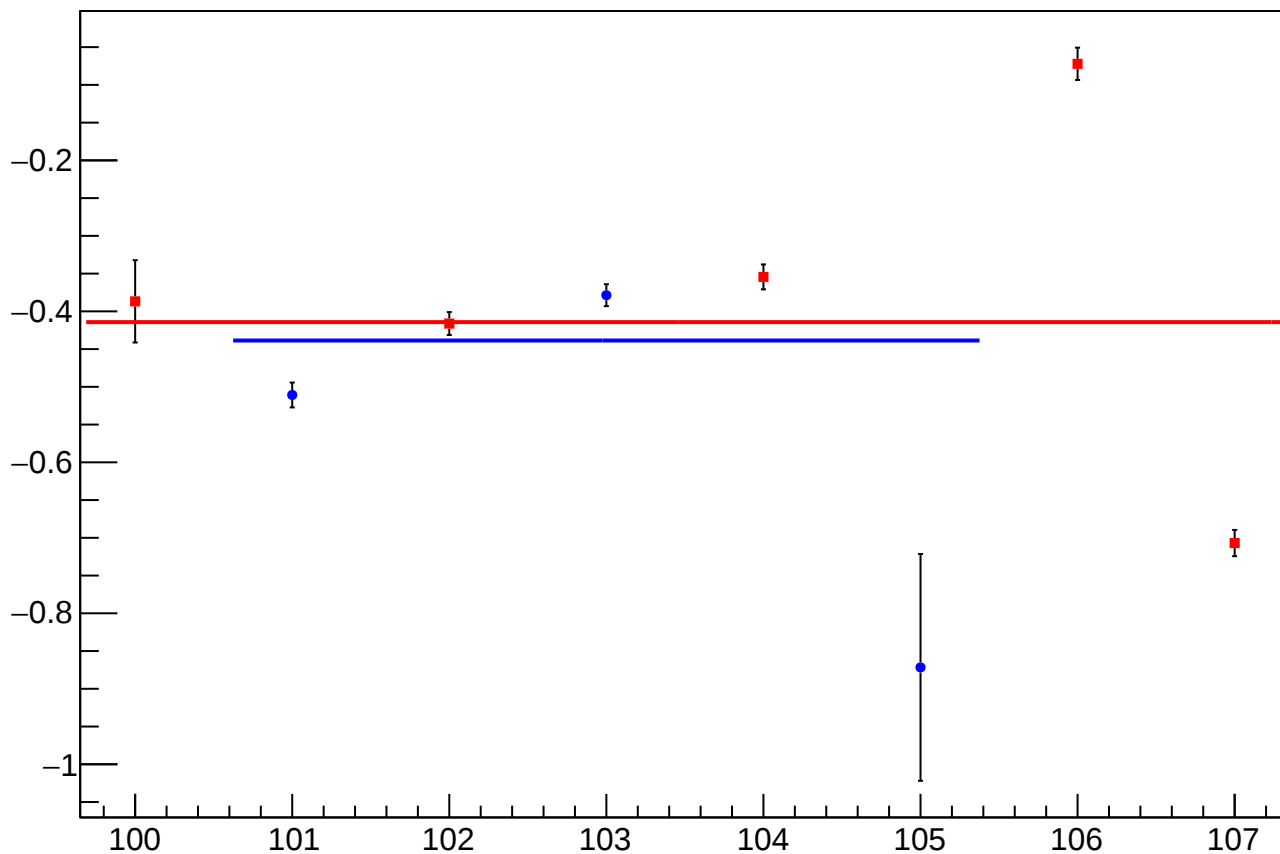
Right Out: 24.995 $\pm$ 0.244  $\chi^2$ /NDF: 1352.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

27.346 $\pm$ 0.256  $\chi^2$ /NDF: 1404.4/2

24.995 $\pm$ 0.244  $\chi^2$ /NDF: 1352.0/4

# reg\_asym\_sam8\_diff\_bpm12X\_slope vs slug



Right In: -0.439+/-0.011  $\chi^2$ /NDF: 44.6/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

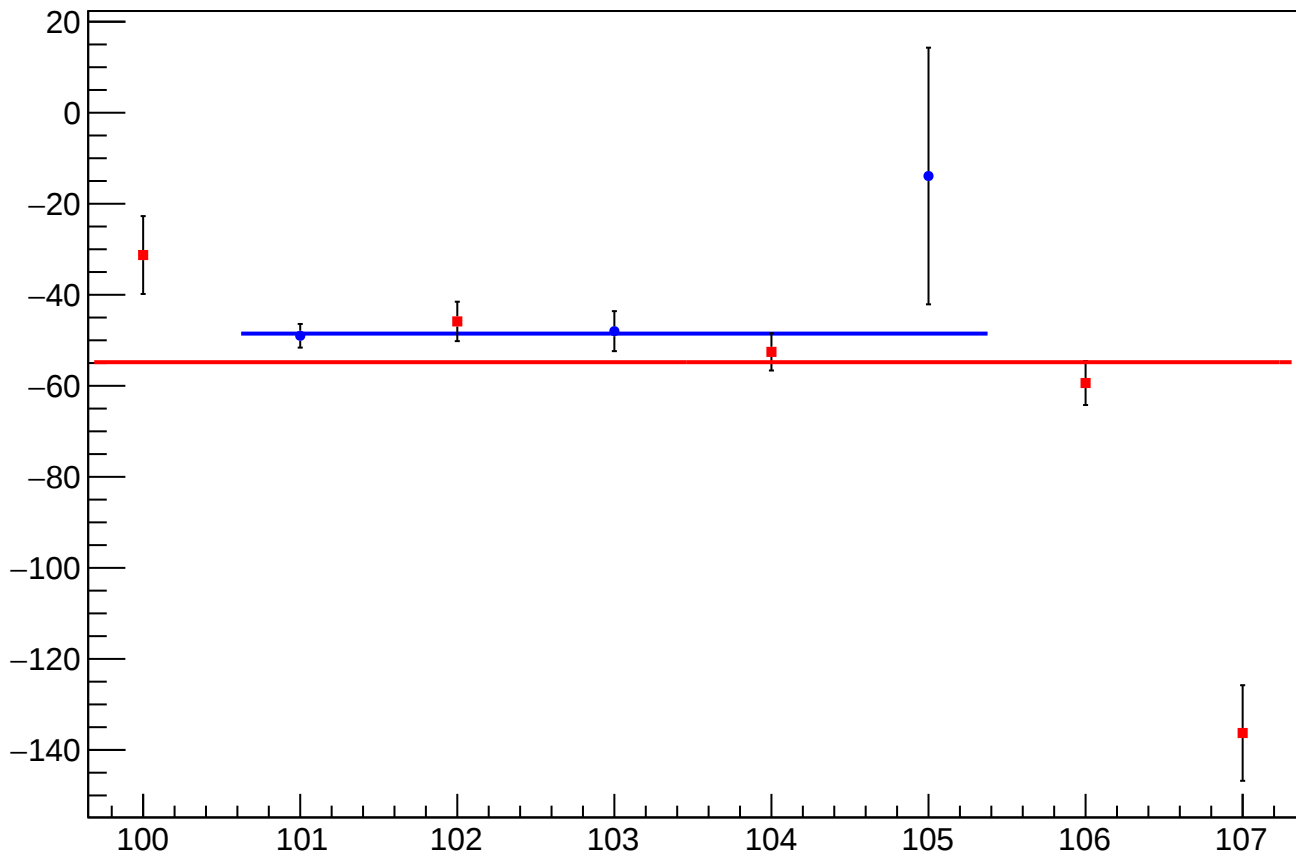
Right Out: -0.414+/-0.009  $\chi^2$ /NDF: 552.8/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-0.439+/-0.011  $\chi^2$ /NDF: 44.6/2

-0.414+/-0.009  $\chi^2$ /NDF: 552.8/4

# reg\_asym\_usl\_diff\_bpm4aX\_slope vs slug



Right In: -48.526+/-2.230  $\chi^2/\text{NDF}$ : 1.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

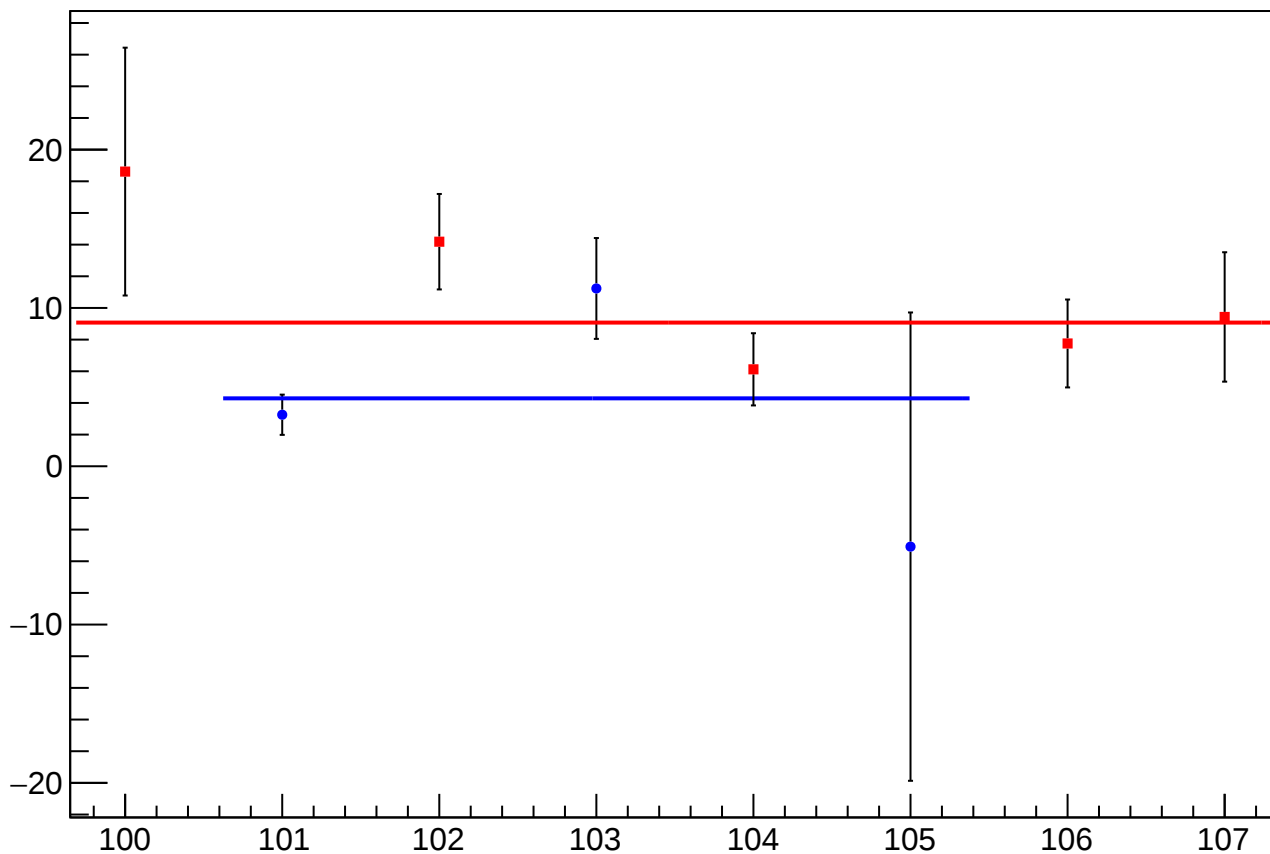
Right Out: -54.810+/-2.367  $\chi^2/\text{NDF}$ : 73.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-48.526+/-2.230  $\chi^2/\text{NDF}$ : 1.6/2

-54.810+/-2.367  $\chi^2/\text{NDF}$ : 73.2/4

# reg\_asym\_usl\_diff\_bpm4aY\_slope vs slug



Right In: 4.290+/-1.177  $\chi^2/\text{NDF}$ : 5.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

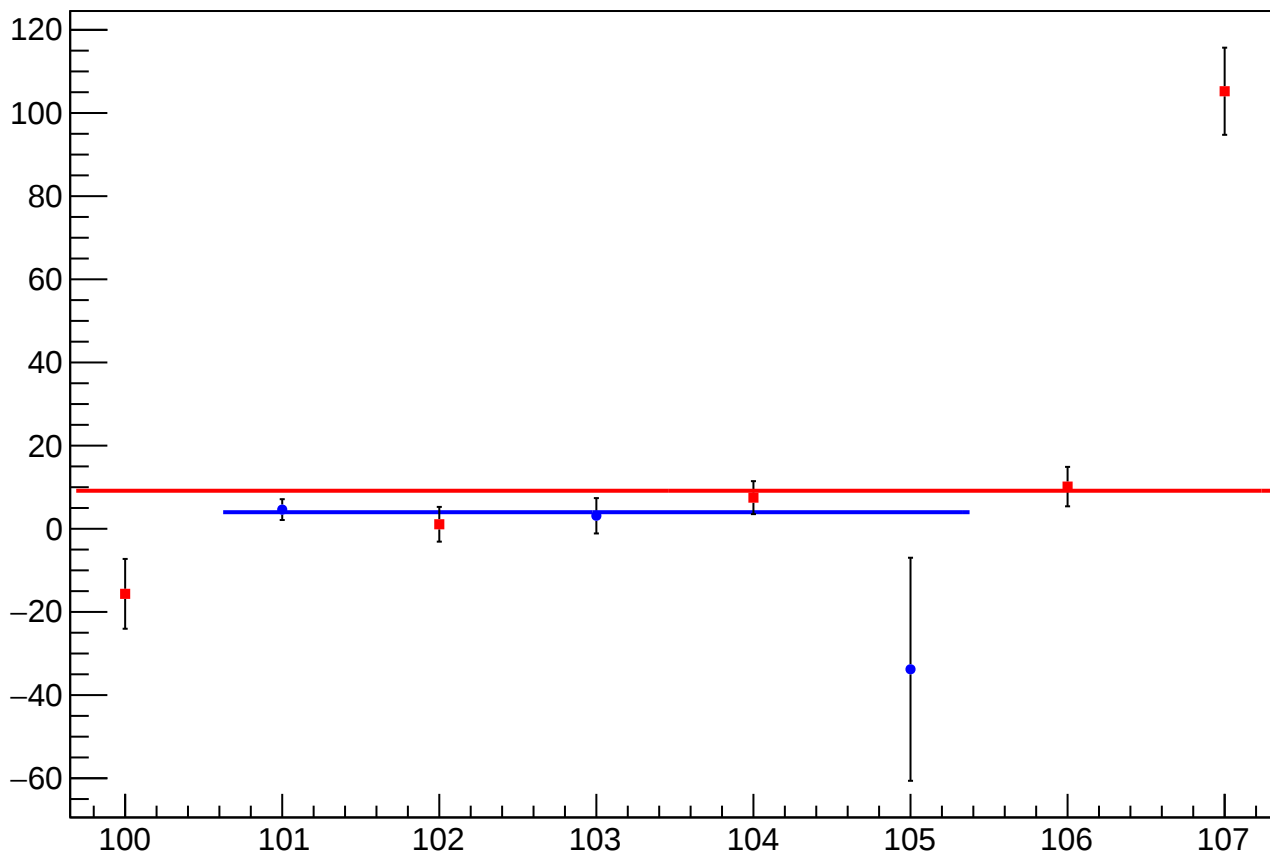
Right Out: 9.076+/-1.403  $\chi^2/\text{NDF}$ : 6.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.290+/-1.177  $\chi^2/\text{NDF}$ : 5.8/2

9.076+/-1.403  $\chi^2/\text{NDF}$ : 6.3/4

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs slug



Right In: 3.987+/-2.151  $\chi^2/\text{NDF}$ : 2.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

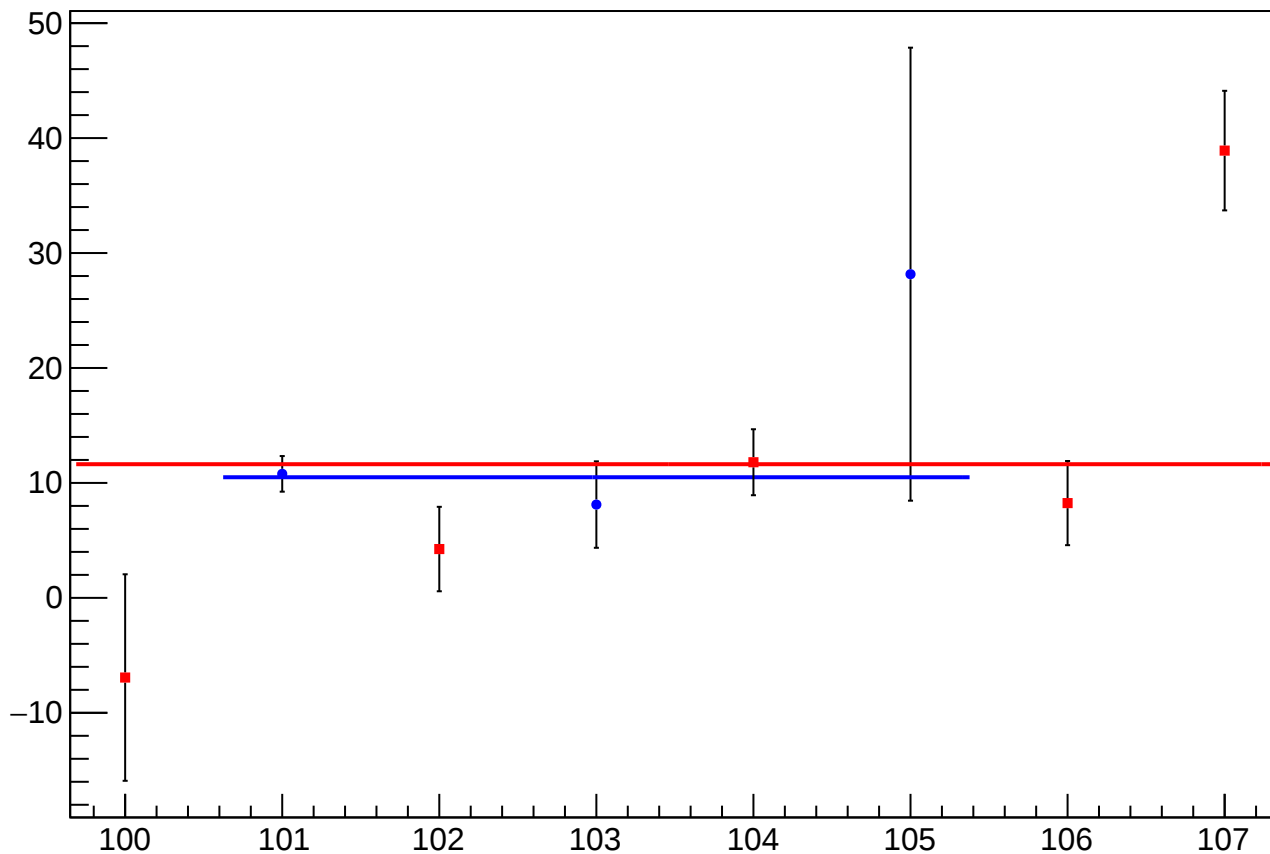
Right Out: 9.148+/-2.303  $\chi^2/\text{NDF}$ : 96.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.987+/-2.151  $\chi^2/\text{NDF}$ : 2.1/2

9.148+/-2.303  $\chi^2/\text{NDF}$ : 96.7/4

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs slug



Right In: 10.494+/-1.429  $\chi^2/\text{NDF}$ : 1.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

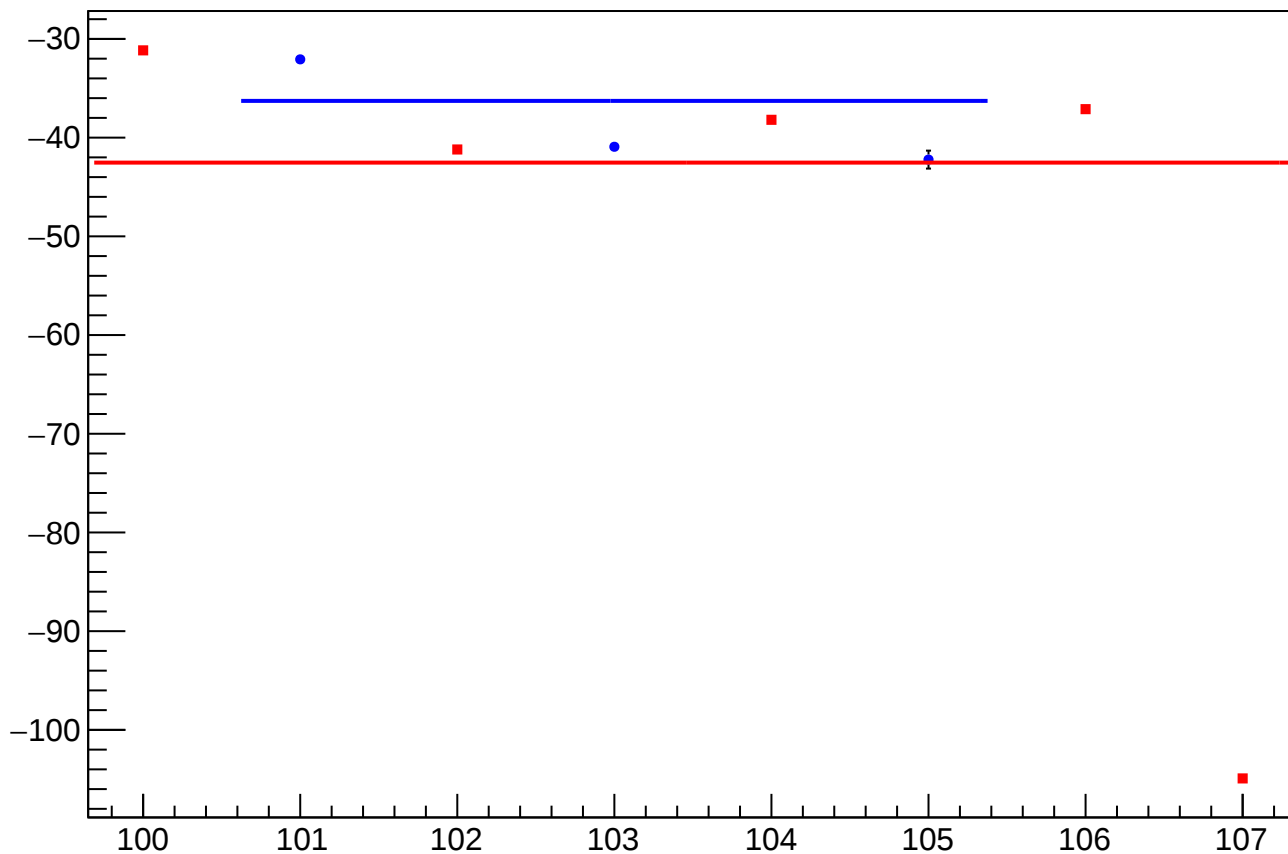
Right Out: 11.629+/-1.769  $\chi^2/\text{NDF}$ : 36.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.494+/-1.429  $\chi^2/\text{NDF}$ : 1.2/2

11.629+/-1.769  $\chi^2/\text{NDF}$ : 36.7/4

# reg\_asym\_usl\_diff\_bpm12X\_slope vs slug



Right In: -36.278+/-0.065  $\chi^2/\text{NDF}$ : 4601.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

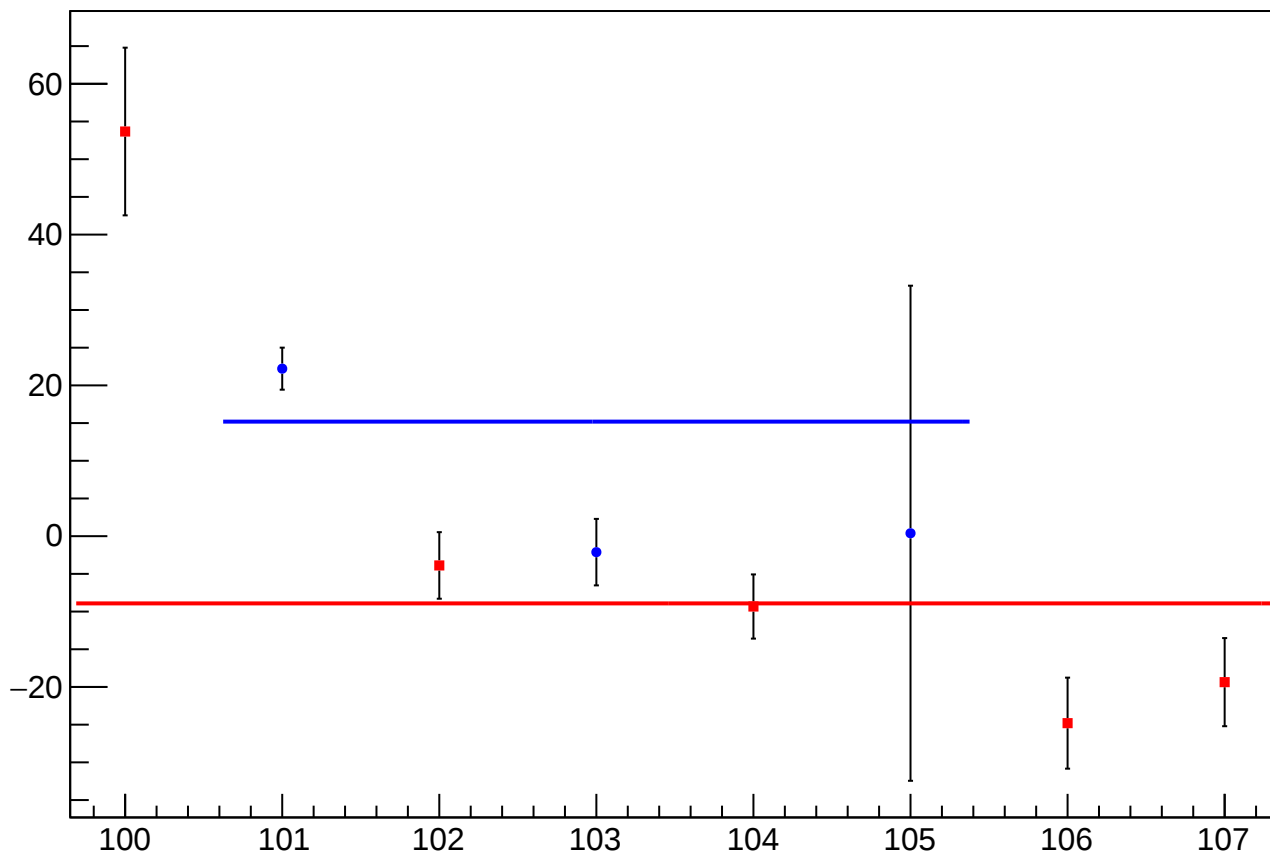
Right Out: -42.530+/-0.058  $\chi^2/\text{NDF}$ : 72768.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-36.278+/-0.065  $\chi^2/\text{NDF}$ : 4601.2/2

-42.530+/-0.058  $\chi^2/\text{NDF}$ : 72768.0/4

# reg\_asym\_usr\_diff\_bpm4aX\_slope vs slug



Right In: 15.194 $\pm$ 2.350  $\chi^2$ /NDF: 22.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

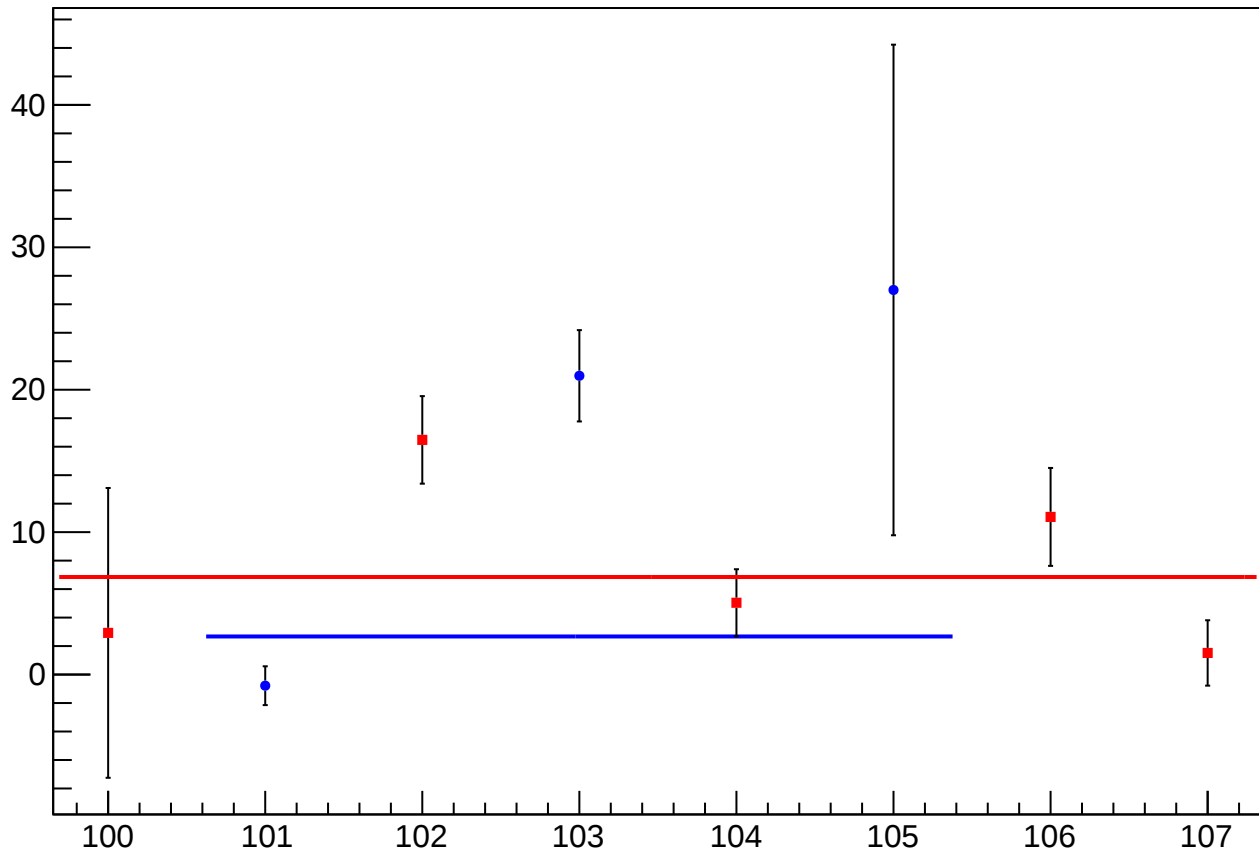
Right Out: -8.916 $\pm$ 2.416  $\chi^2$ /NDF: 43.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

15.194 $\pm$ 2.350  $\chi^2$ /NDF: 22.0/2

-8.916 $\pm$ 2.416  $\chi^2$ /NDF: 43.1/4

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs slug



Right In: 2.674+/-1.251  $\chi^2/\text{NDF}$ : 41.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

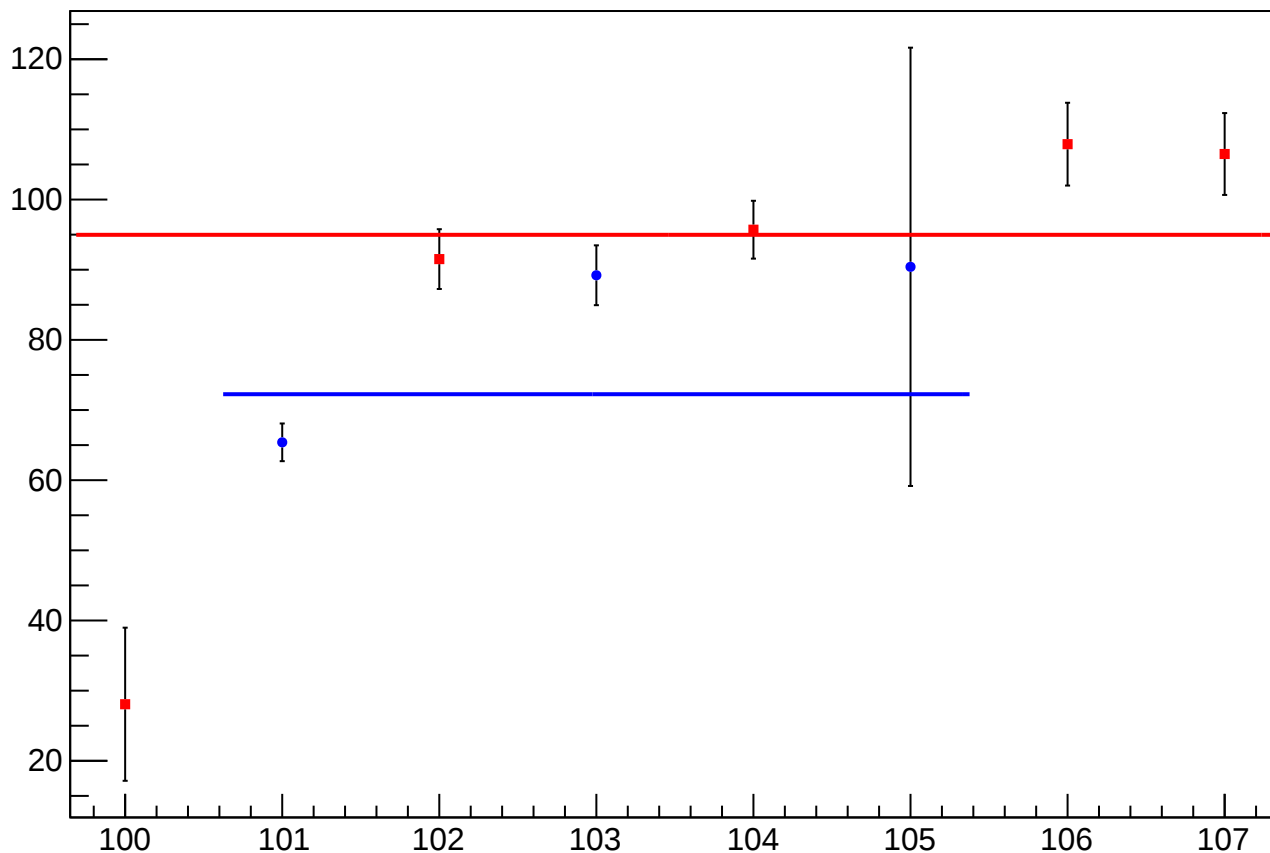
Right Out: 6.850+/-1.324  $\chi^2/\text{NDF}$ : 17.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.674+/-1.251  $\chi^2/\text{NDF}$ : 41.0/2

6.850+/-1.324  $\chi^2/\text{NDF}$ : 17.5/4

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs slug



Right In: 72.255+/-2.267  $\chi^2$ /NDF: 22.7/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

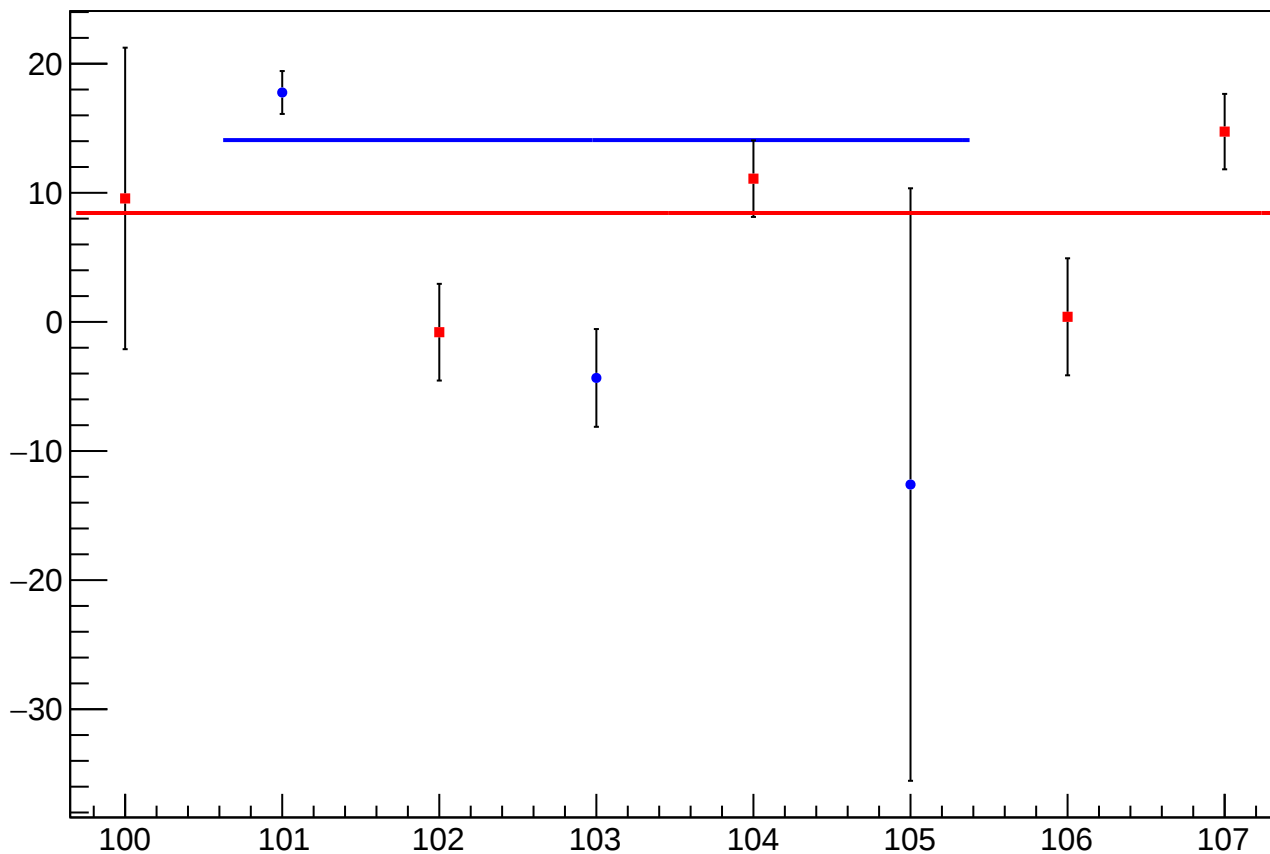
Right Out: 94.974+/-2.354  $\chi^2$ /NDF: 47.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

72.255+/-2.267  $\chi^2$ /NDF: 22.7/2

94.974+/-2.354  $\chi^2$ /NDF: 47.0/4

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs slug



Right In: 14.084+/-1.518  $\chi^2$ /NDF: 29.9/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

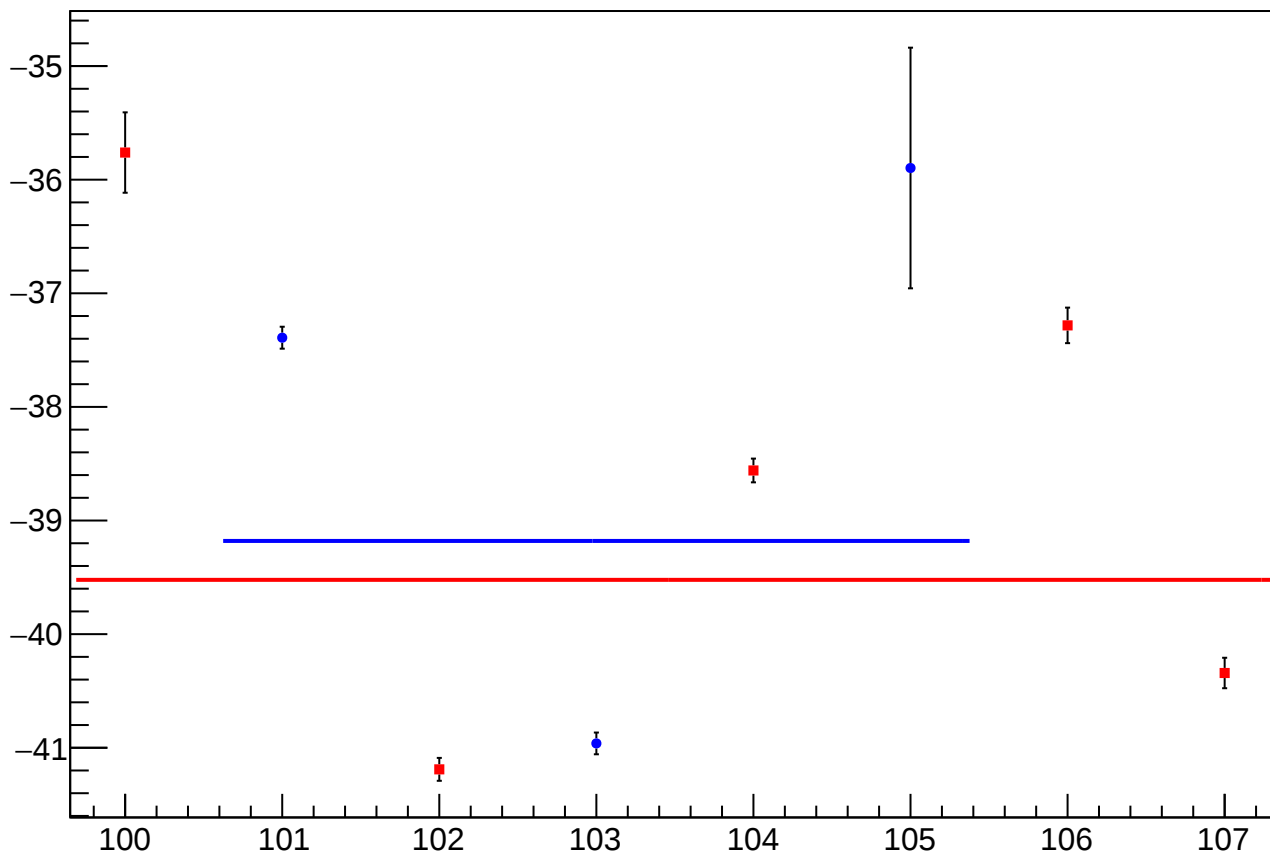
Right Out: 8.437+/-1.671  $\chi^2$ /NDF: 14.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

14.084+/-1.518  $\chi^2$ /NDF: 29.9/2

8.437+/-1.671  $\chi^2$ /NDF: 14.7/4

# reg\_asym\_usr\_diff\_bpm12X\_slope vs slug



Right In: -39.180 $\pm$ 0.068  $\chi^2$ /NDF: 699.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

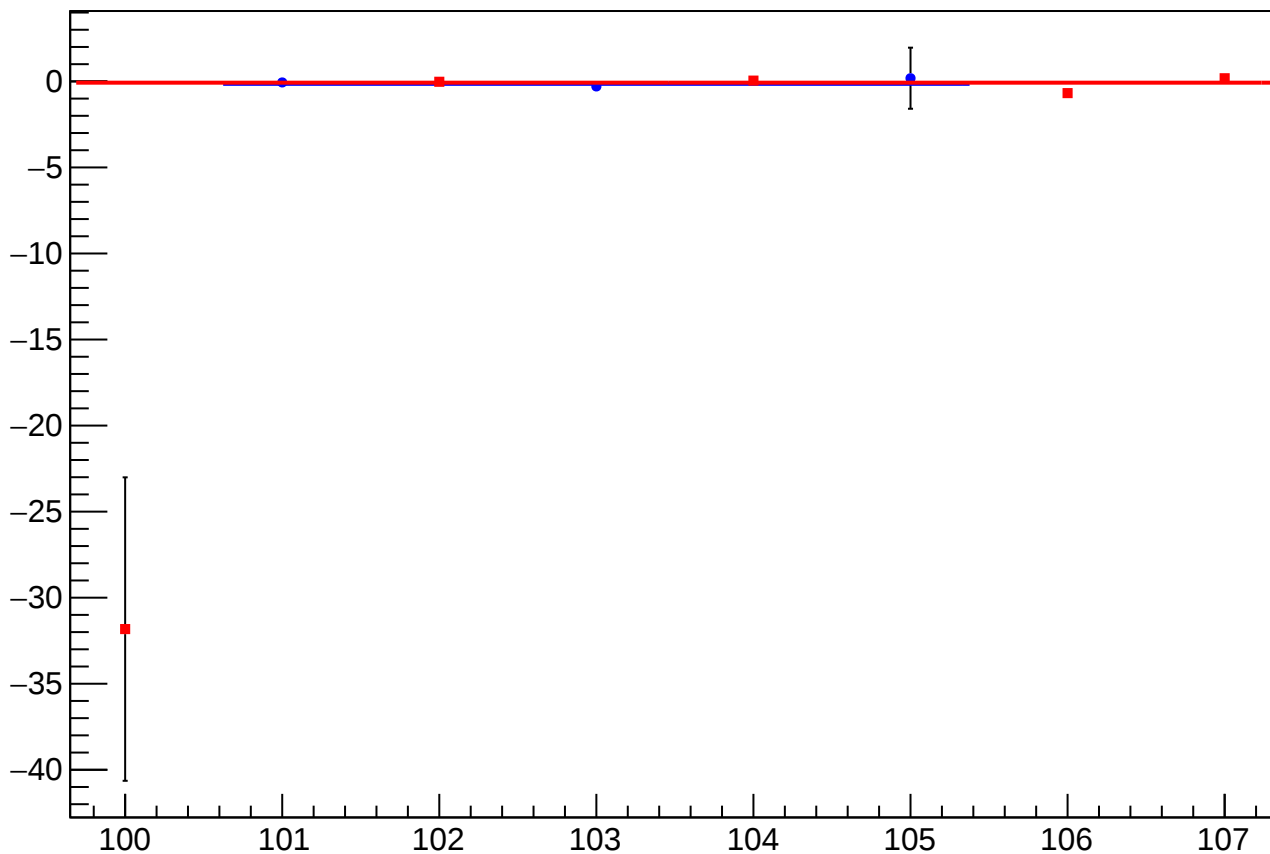
-39.180 $\pm$ 0.068  $\chi^2$ /NDF: 699.9/2

Right Out: -39.522 $\pm$ 0.058  $\chi^2$ /NDF: 714.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-39.522 $\pm$ 0.058  $\chi^2$ /NDF: 714.4/4

# reg\_asym\_dsl\_diff\_bpm4aX\_slope vs slug



Right In: -0.142+/-0.109  $\chi^2/\text{NDF}$ : 1.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

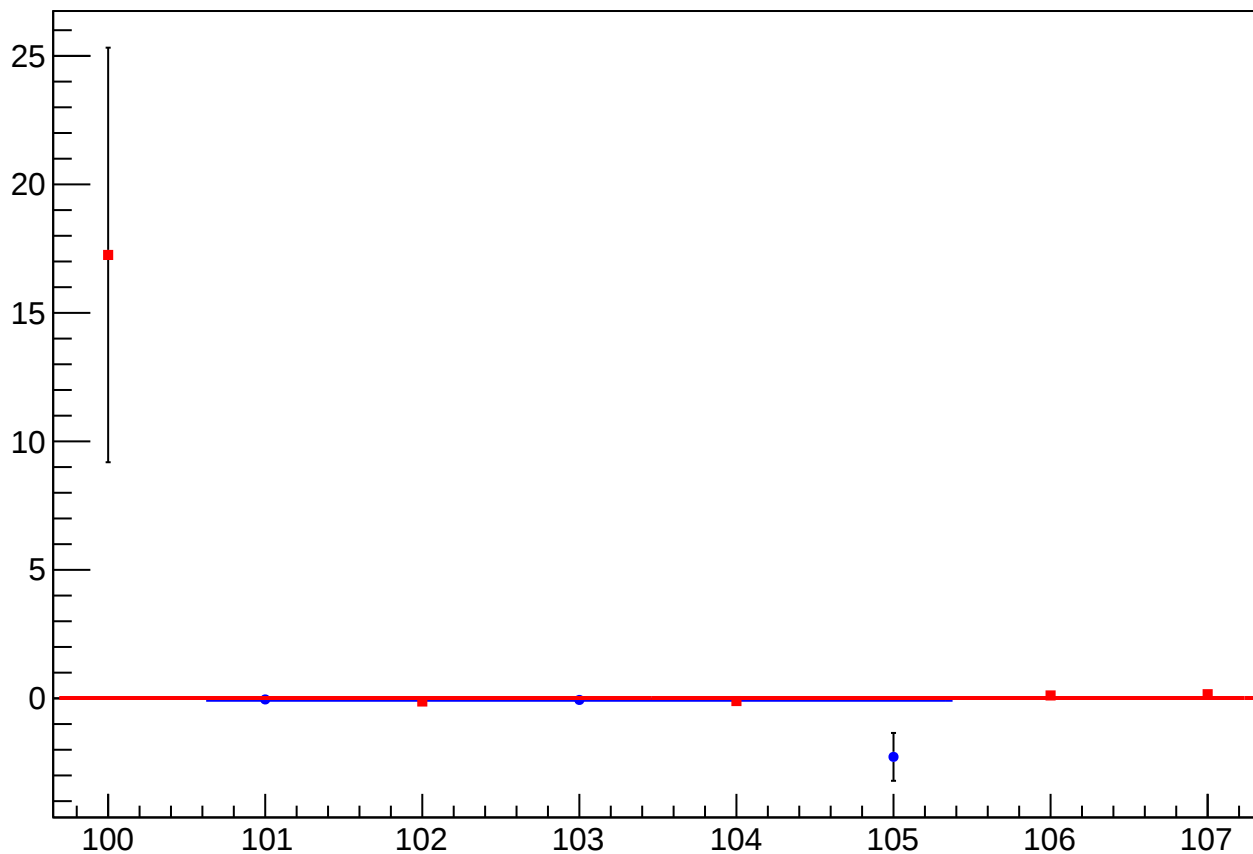
Right Out: -0.075+/-0.115  $\chi^2/\text{NDF}$ : 18.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.142+/-0.109  $\chi^2/\text{NDF}$ : 1.1/2

-0.075+/-0.115  $\chi^2/\text{NDF}$ : 18.6/4

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs slug



Right In: -0.055+/-0.059  $\chi^2/\text{NDF}$ : 5.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

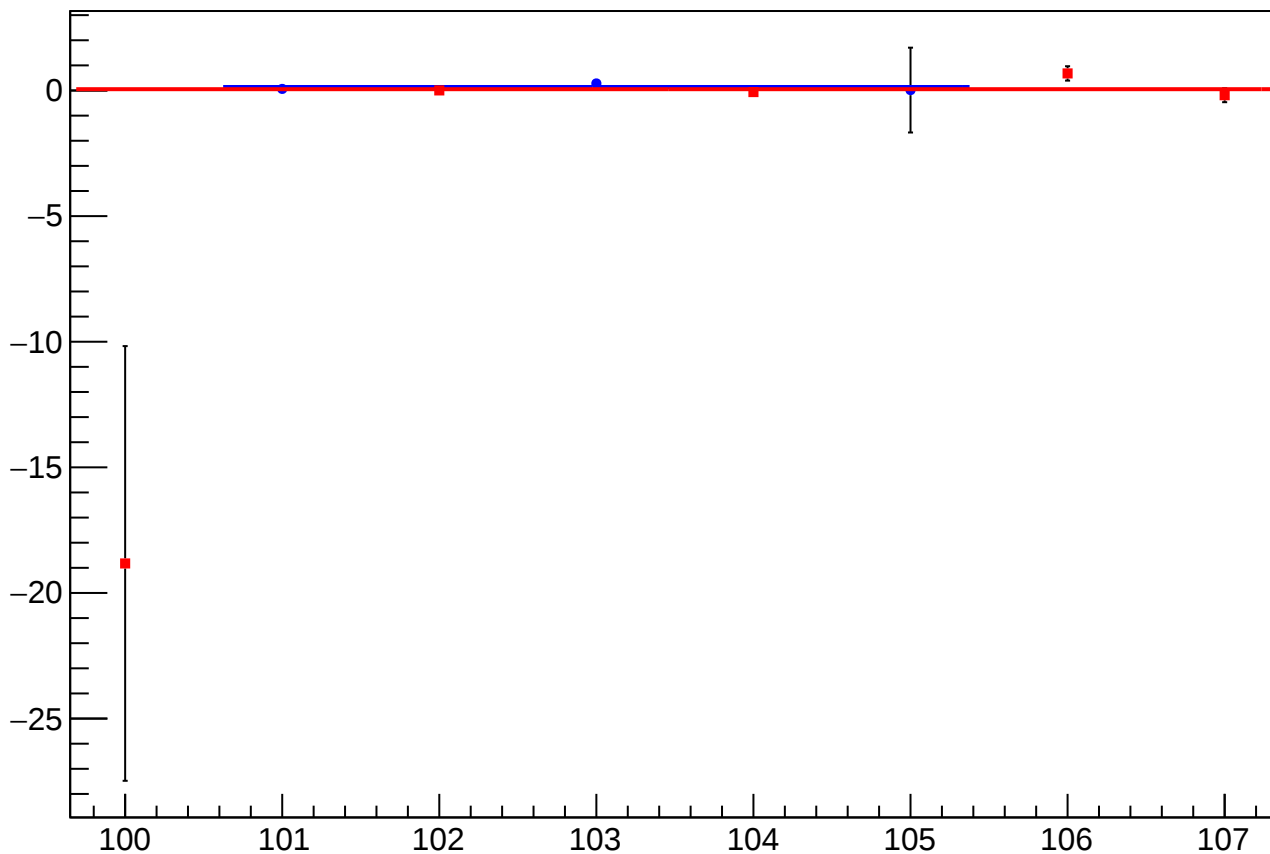
Right Out: 0.014+/-0.063  $\chi^2/\text{NDF}$ : 8.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.055+/-0.059  $\chi^2/\text{NDF}$ : 5.7/2

0.014+/-0.063  $\chi^2/\text{NDF}$ : 8.9/4

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs slug



Right In: 0.140 $\pm$ 0.105     $\chi^2$ /NDF: 1.0/2

Left Out: 0.000 $\pm$ 0.000     $\chi^2$ /NDF: 0.0/0

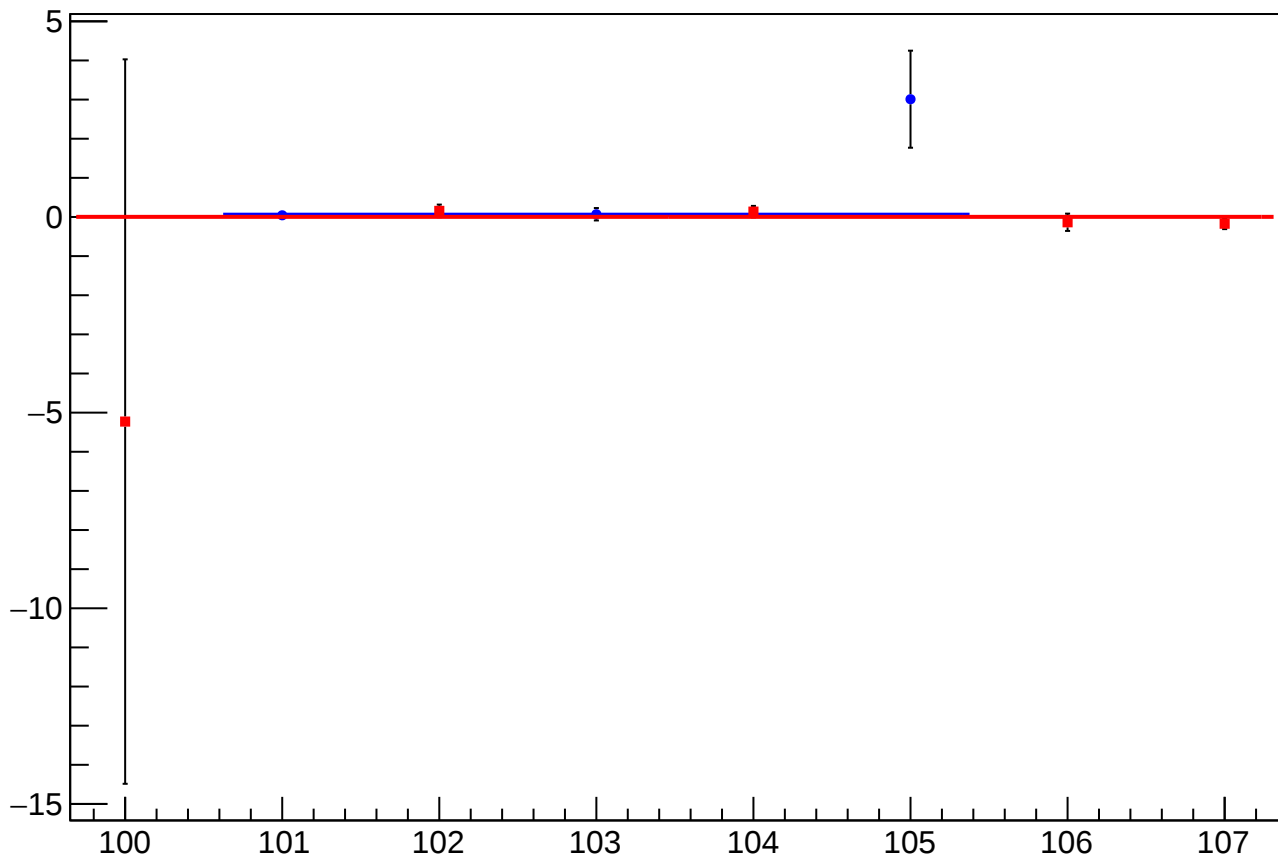
Right Out: 0.052 $\pm$ 0.112     $\chi^2$ /NDF: 10.7/4

Left In: 0.000 $\pm$ 0.000     $\chi^2$ /NDF: 0.0/0

0.140 $\pm$ 0.105     $\chi^2$ /NDF: 1.0/2

0.052 $\pm$ 0.112     $\chi^2$ /NDF: 10.7/4

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs slug



Right In: 0.058 $\pm$ 0.072  $\chi^2$ /NDF: 5.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

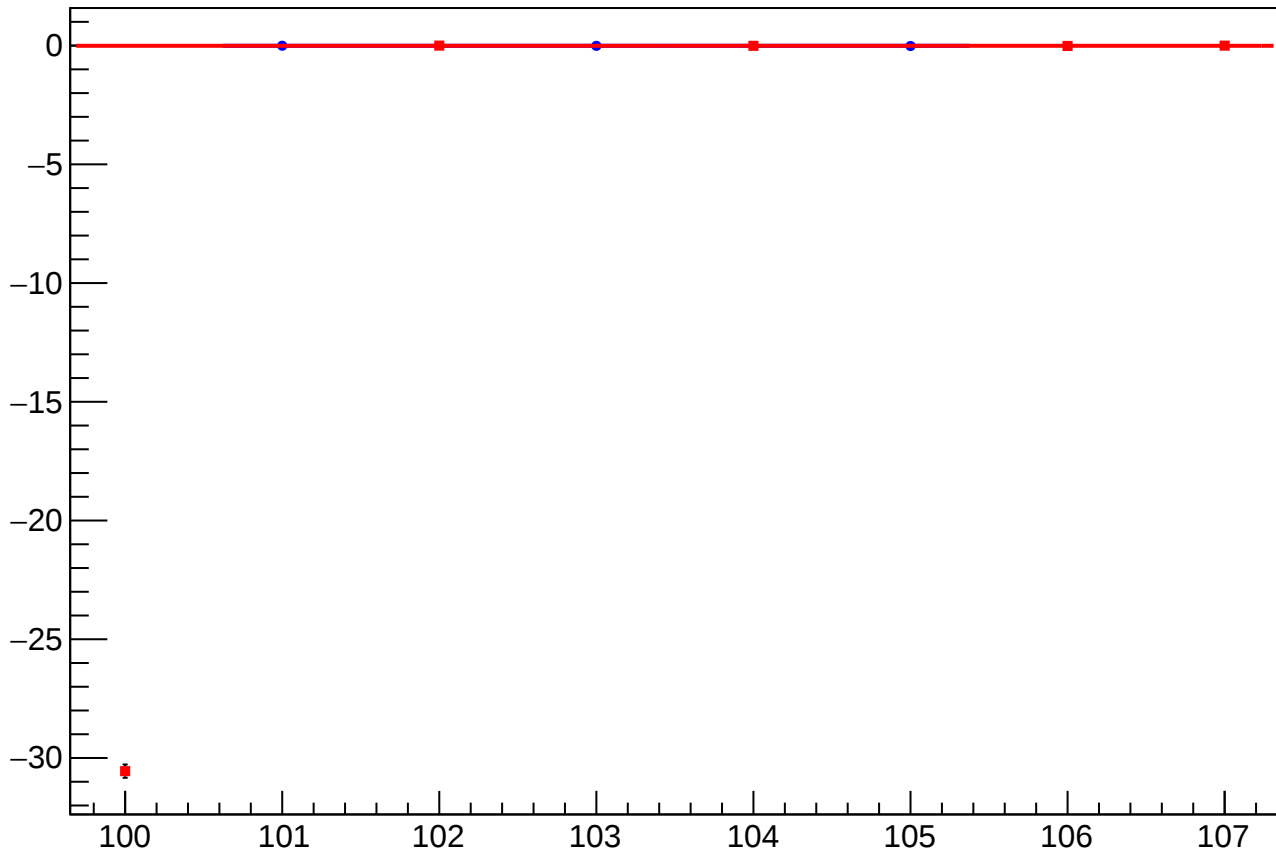
Right Out: 0.003 $\pm$ 0.079  $\chi^2$ /NDF: 4.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.058 $\pm$ 0.072  $\chi^2$ /NDF: 5.7/2

0.003 $\pm$ 0.079  $\chi^2$ /NDF: 4.1/4

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs slug



Right In: -0.008+/-0.003  $\chi^2/\text{NDF}$ : 0.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

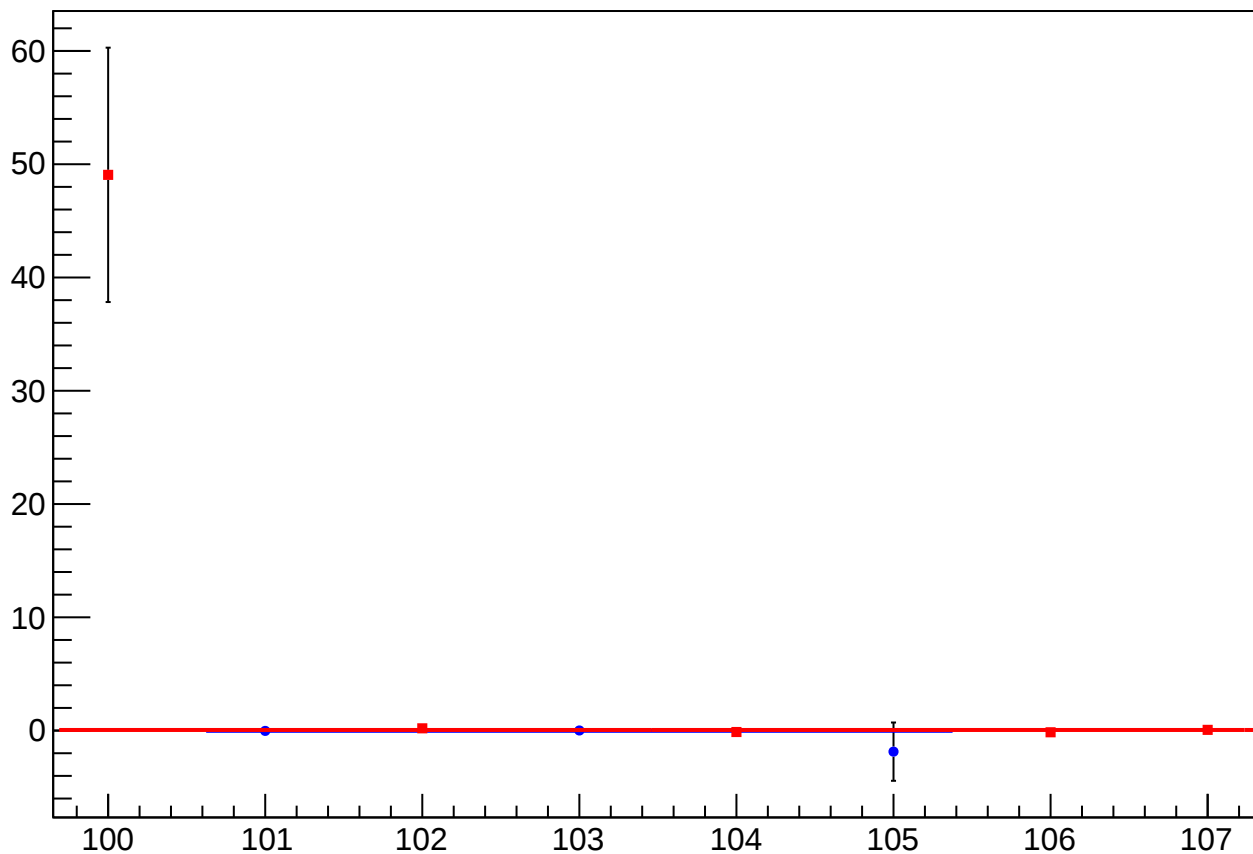
-0.008+/-0.003  $\chi^2/\text{NDF}$ : 0.6/2

Right Out: -0.008+/-0.003  $\chi^2/\text{NDF}$ : 11874.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.008+/-0.003  $\chi^2/\text{NDF}$ : 11874.2/4

# reg\_asym\_dsr\_diff\_bpm4aX\_slope vs slug



Right In: -0.019+/-0.117  $\chi^2/\text{NDF}$ : 0.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

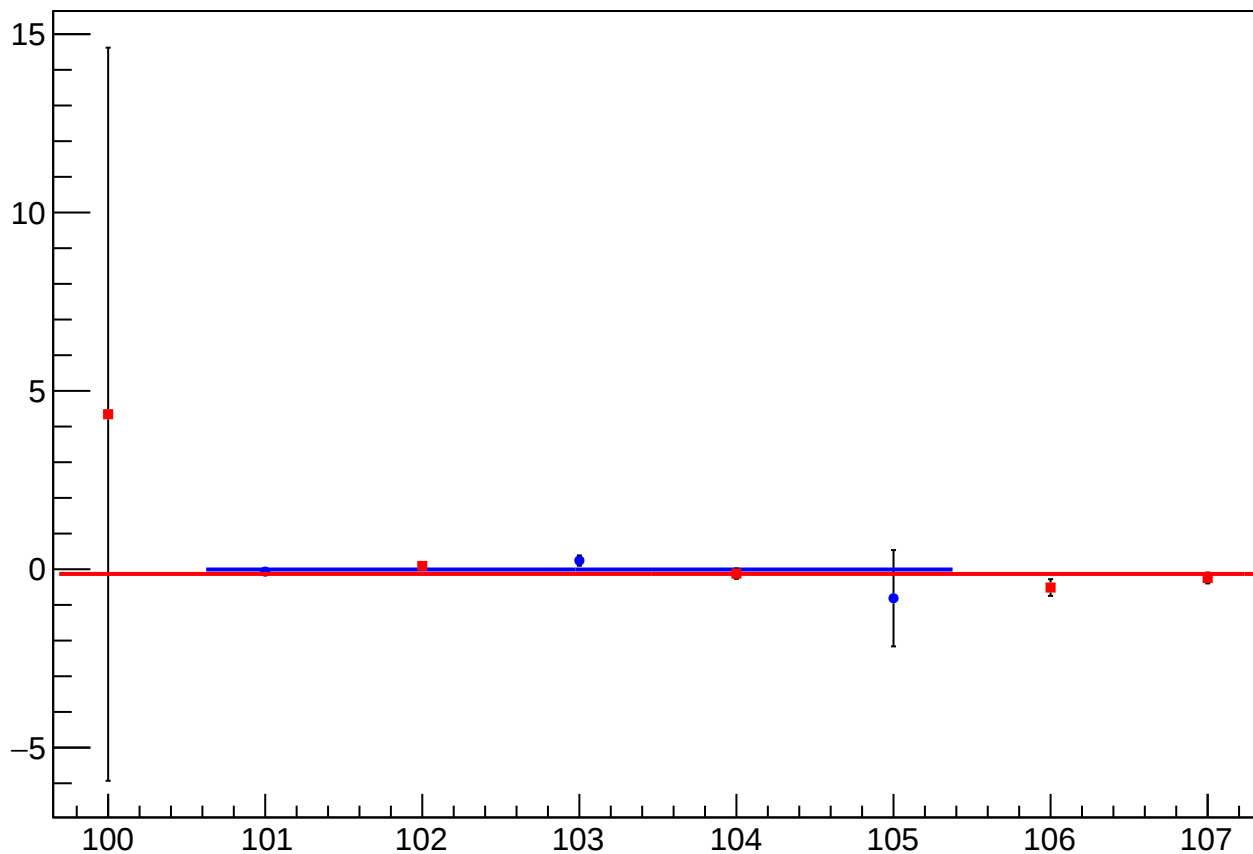
Right Out: 0.054+/-0.136  $\chi^2/\text{NDF}$ : 20.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.019+/-0.117  $\chi^2/\text{NDF}$ : 0.5/2

0.054+/-0.136  $\chi^2/\text{NDF}$ : 20.4/4

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs slug



Right In: -0.008+/-0.064  $\chi^2$ /NDF: 4.1/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

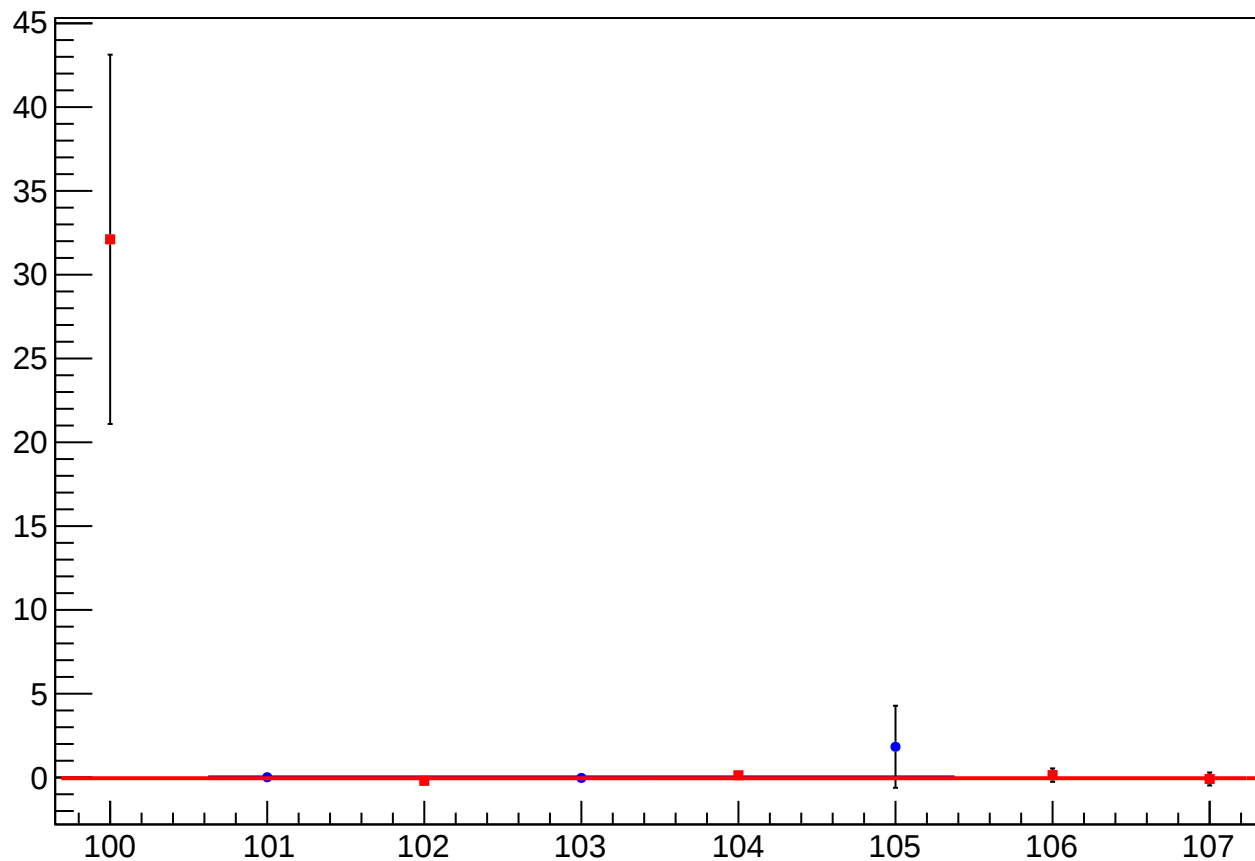
Right Out: -0.132+/-0.079  $\chi^2$ /NDF: 6.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.008+/-0.064  $\chi^2$ /NDF: 4.1/2

-0.132+/-0.079  $\chi^2$ /NDF: 6.0/4

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs slug



Right In: 0.005+/-0.112  $\chi^2/\text{NDF}$ : 0.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

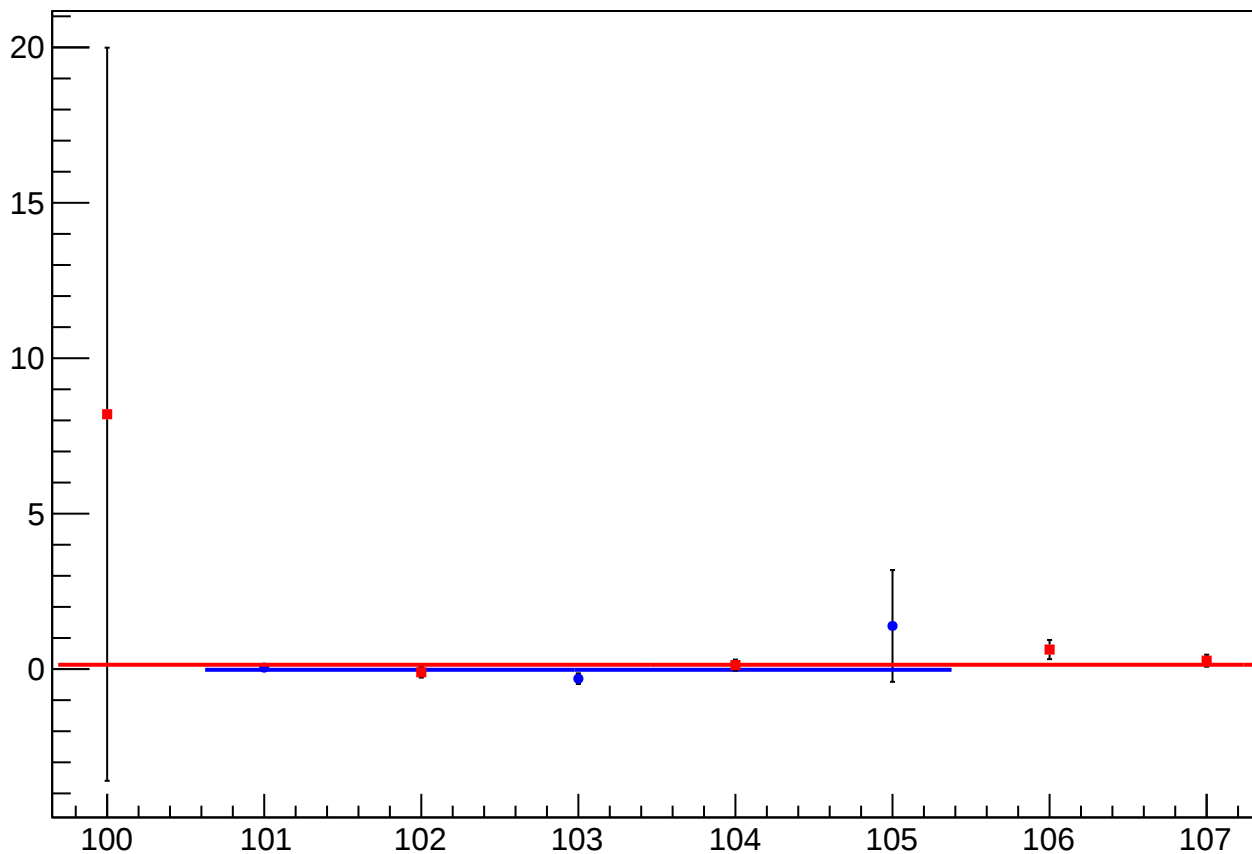
Right Out: -0.044+/-0.132  $\chi^2/\text{NDF}$ : 9.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.005+/-0.112  $\chi^2/\text{NDF}$ : 0.6/2

-0.044+/-0.132  $\chi^2/\text{NDF}$ : 9.9/4

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs slug



Right In: -0.023+/-0.077  $\chi^2$ /NDF: 4.1/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

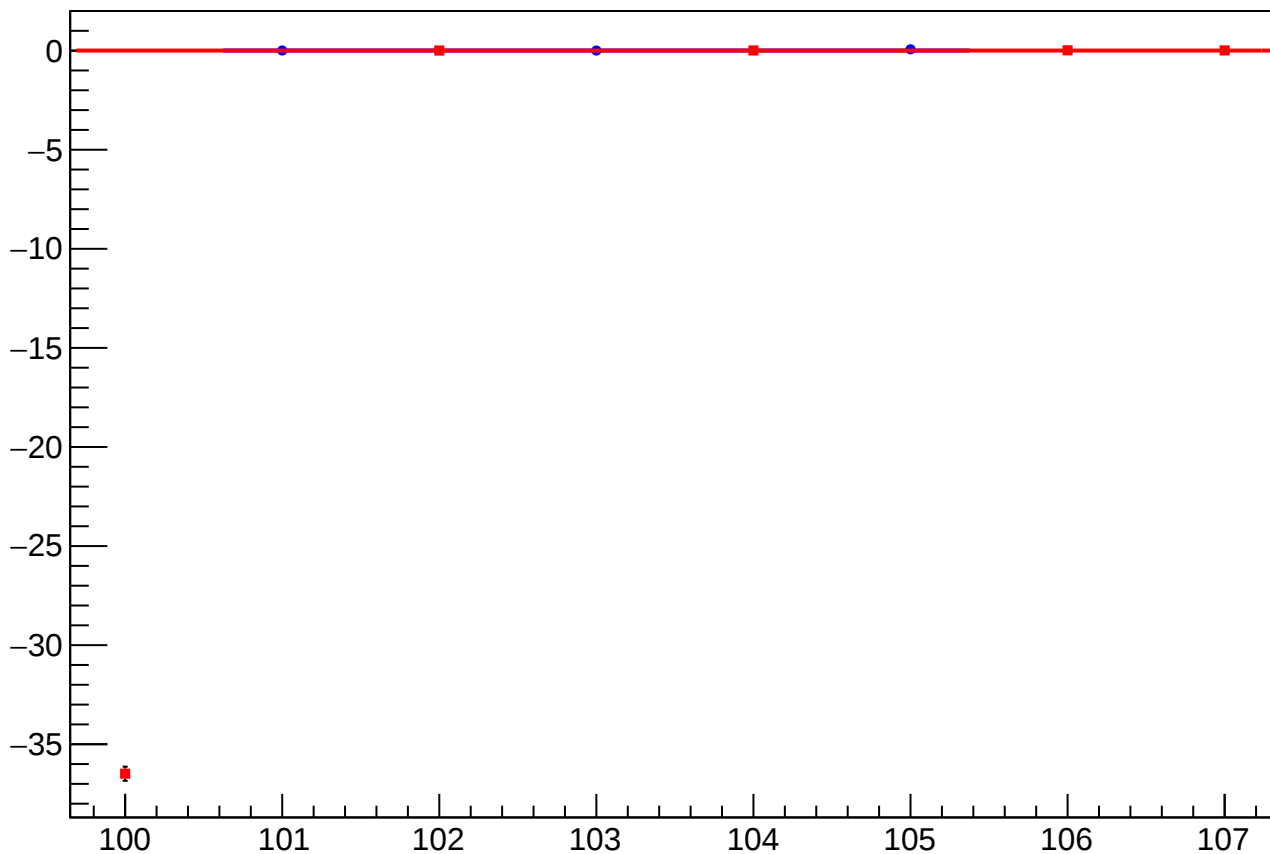
Right Out: 0.139+/-0.098  $\chi^2$ /NDF: 5.5/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.023+/-0.077  $\chi^2$ /NDF: 4.1/2

0.139+/-0.098  $\chi^2$ /NDF: 5.5/4

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs slug



Right In: 0.006+/-0.003  $\chi^2/\text{NDF}$ : 0.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

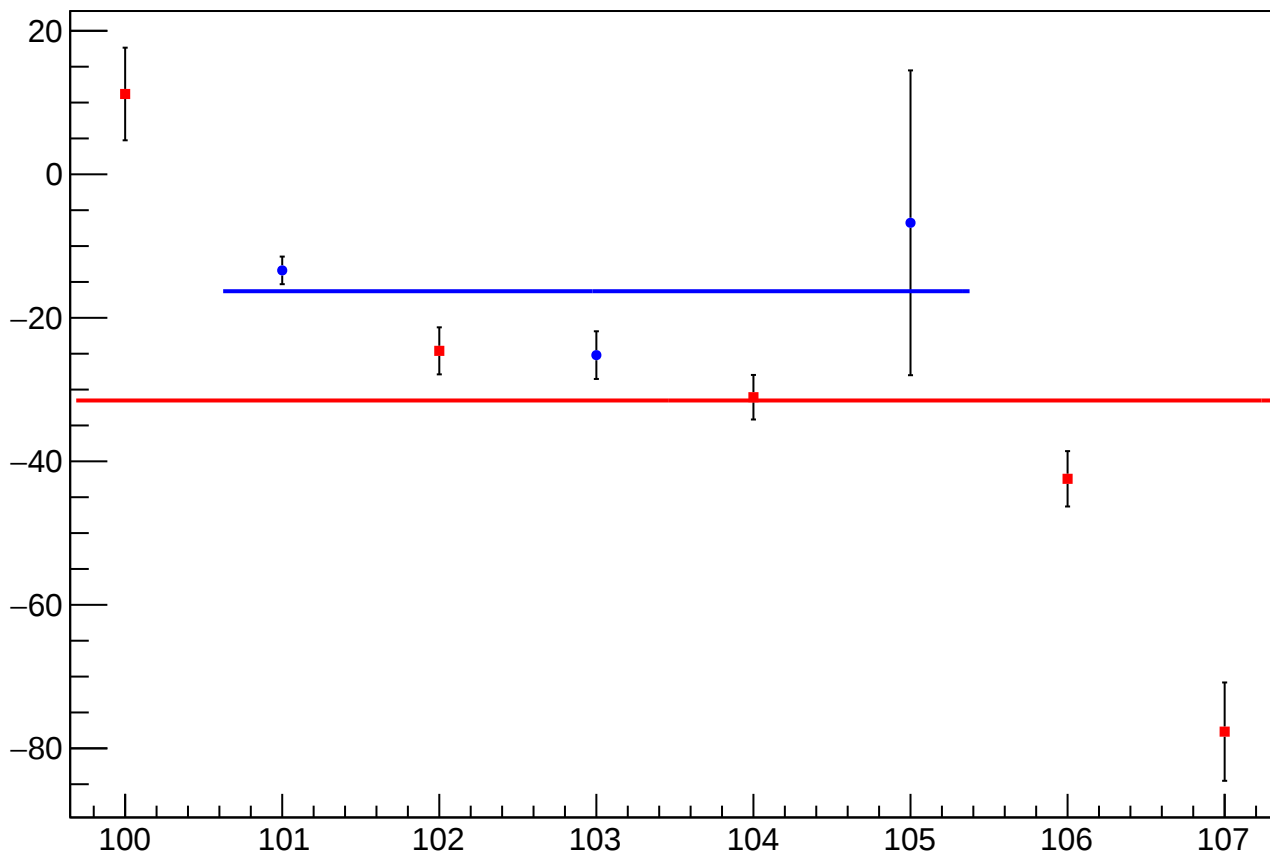
0.006+/-0.003  $\chi^2/\text{NDF}$ : 0.8/2

Right Out: 0.005+/-0.003  $\chi^2/\text{NDF}$ : 10432.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.005+/-0.003  $\chi^2/\text{NDF}$ : 10432.5/4

# reg\_asym\_us\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -16.291+/-1.659  $\chi^2/\text{NDF}$ : 9.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

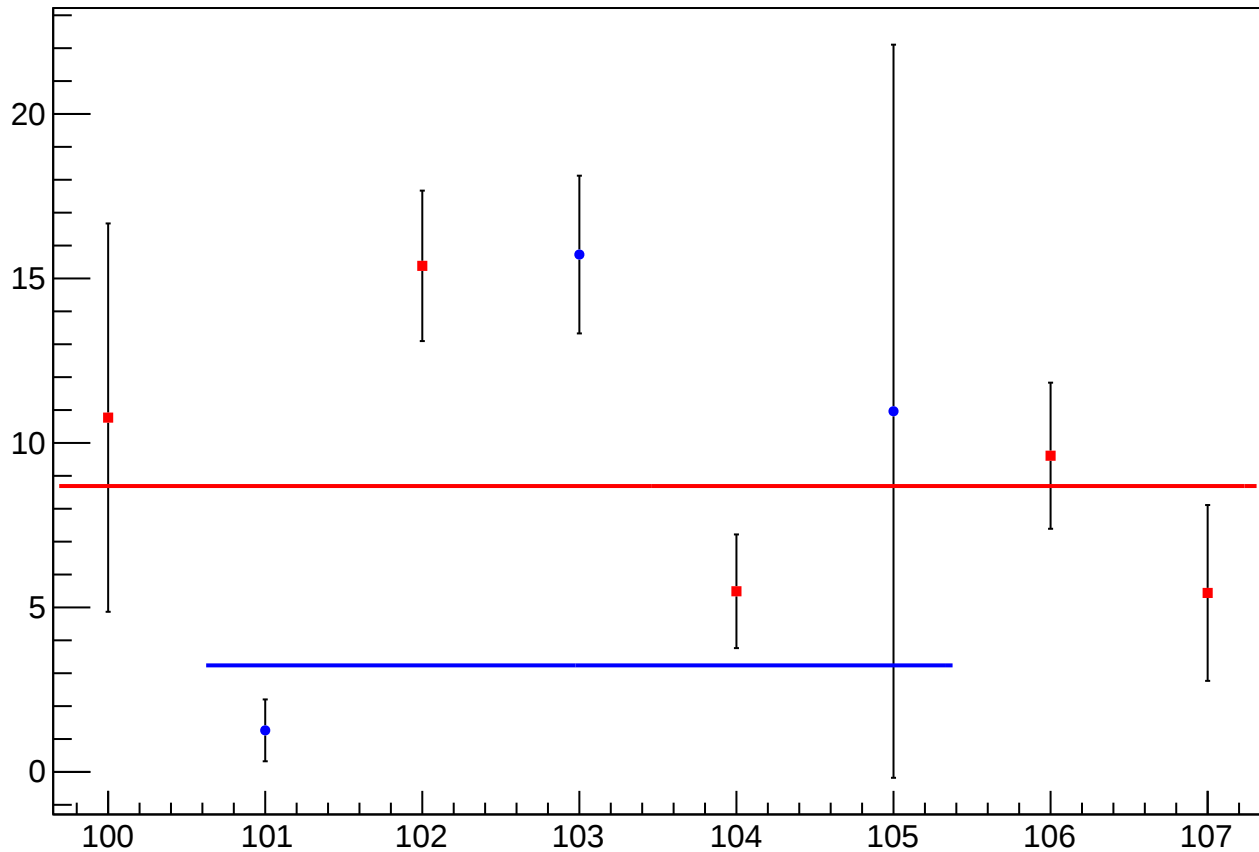
Right Out: -31.519+/-1.798  $\chi^2/\text{NDF}$ : 101.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-16.291+/-1.659  $\chi^2/\text{NDF}$ : 9.7/2

-31.519+/-1.798  $\chi^2/\text{NDF}$ : 101.6/4

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 3.239+/-0.872  $\chi^2/\text{NDF}$ : 32.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

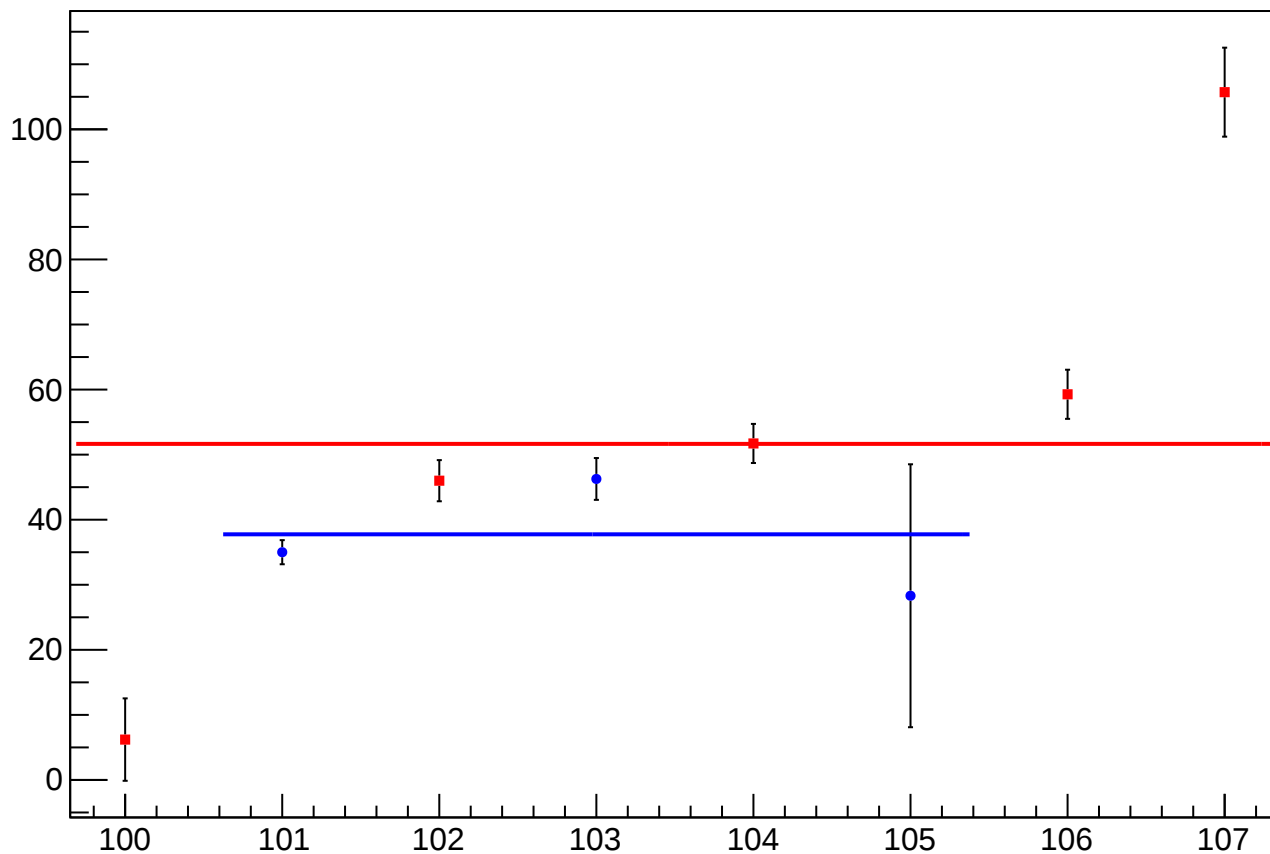
Right Out: 8.690+/-1.055  $\chi^2/\text{NDF}$ : 13.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.239+/-0.872  $\chi^2/\text{NDF}$ : 32.0/2

8.690+/-1.055  $\chi^2/\text{NDF}$ : 13.8/4

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 37.754+/-1.600  $\chi^2/\text{NDF}$ : 9.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

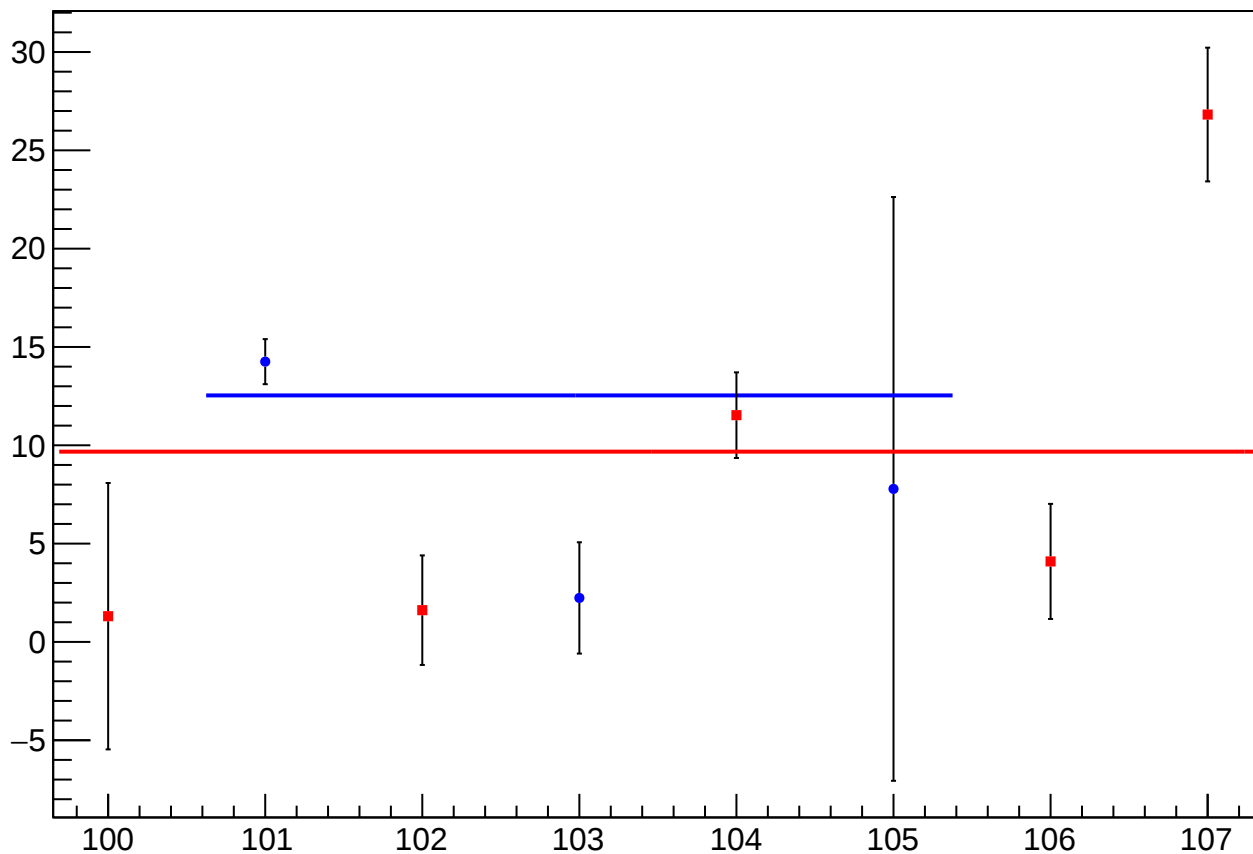
Right Out: 51.652+/-1.748  $\chi^2/\text{NDF}$ : 121.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

37.754+/-1.600  $\chi^2/\text{NDF}$ : 9.4/2

51.652+/-1.748  $\chi^2/\text{NDF}$ : 121.2/4

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 12.536+/-1.060  $\chi^2/\text{NDF}$ : 15.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

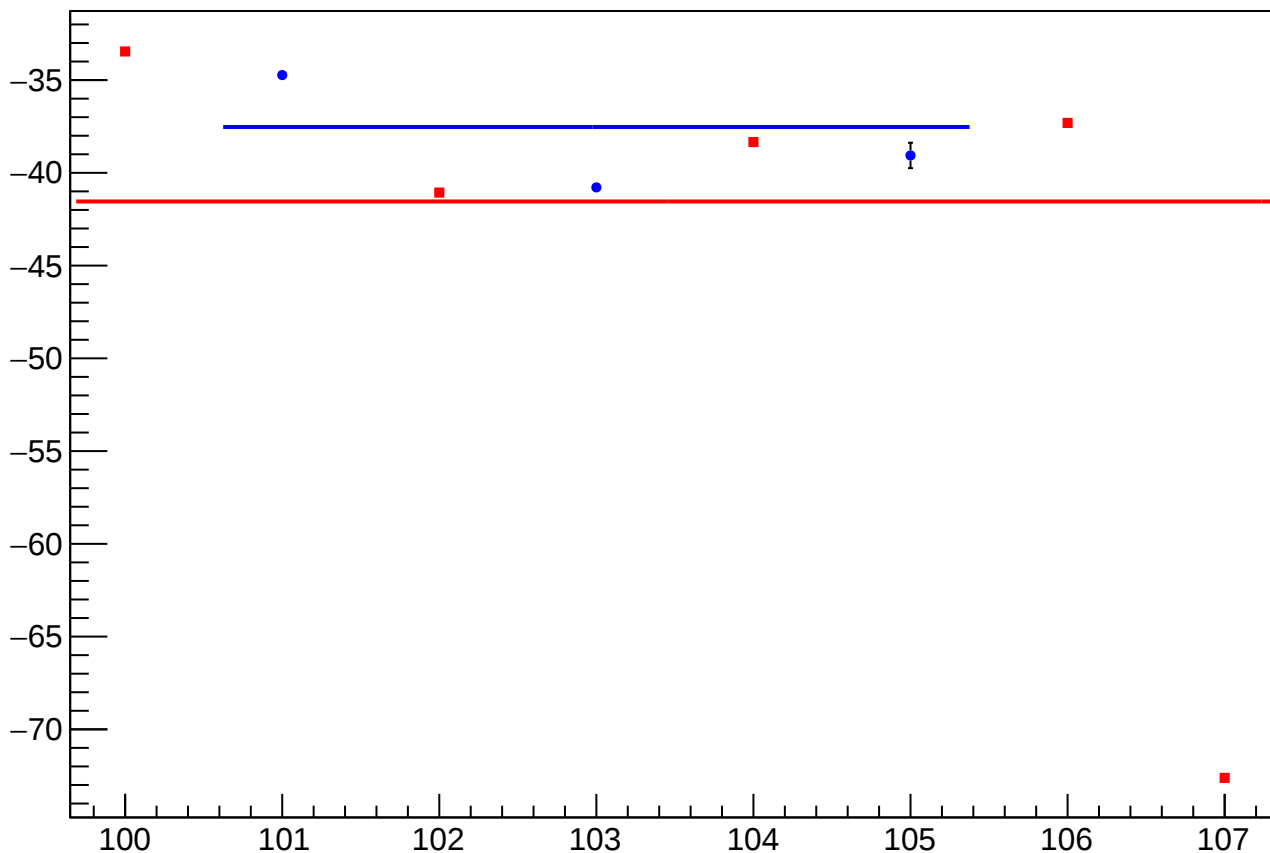
Right Out: 9.677+/-1.331  $\chi^2/\text{NDF}$ : 39.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

12.536+/-1.060  $\chi^2/\text{NDF}$ : 15.6/2

9.677+/-1.331  $\chi^2/\text{NDF}$ : 39.7/4

# reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs slug



Right In:  $-37.528 \pm 0.049$   $\chi^2/\text{NDF}$ : 3809.4/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

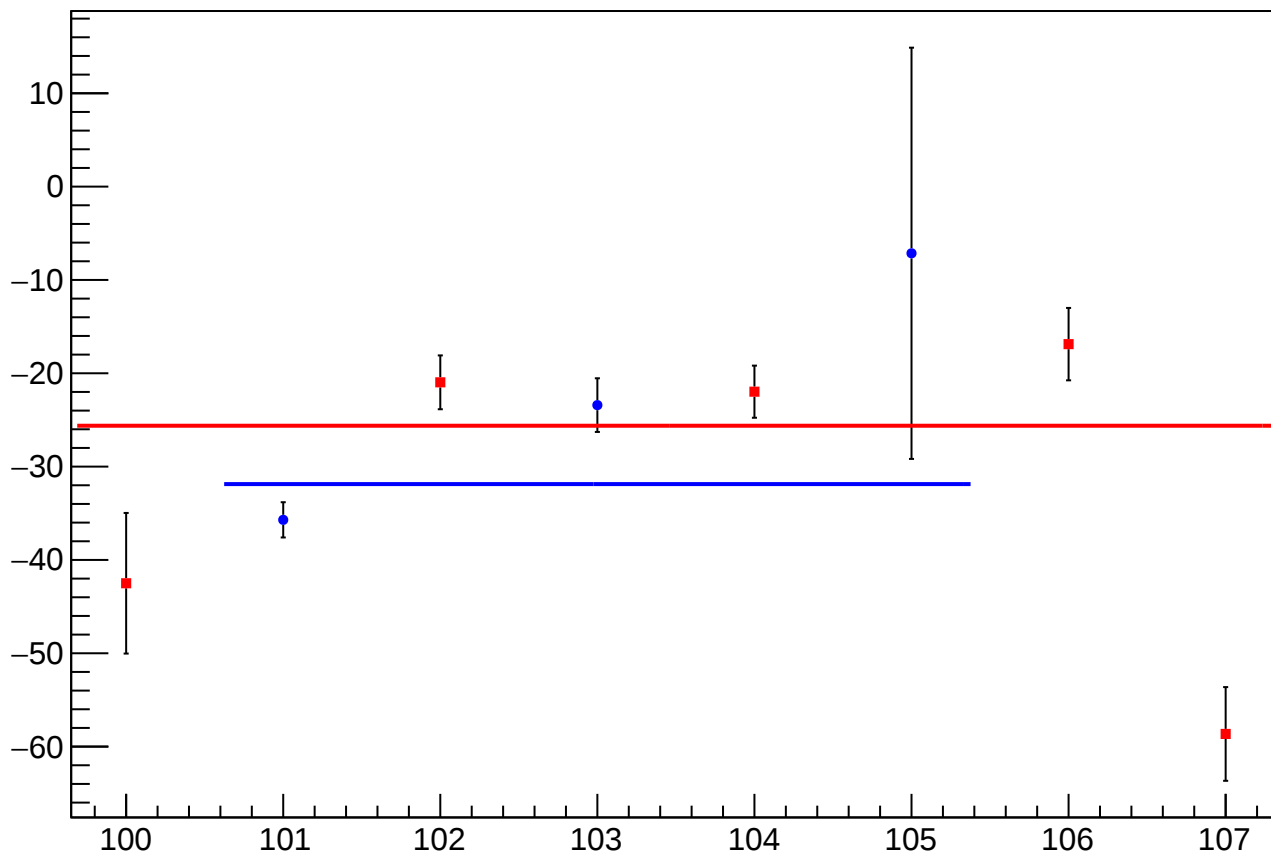
$-37.528 \pm 0.049$   $\chi^2/\text{NDF}$ : 3809.4/2

Right Out:  $-41.543 \pm 0.044$   $\chi^2/\text{NDF}$ : 44203.1/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-41.543 \pm 0.044$   $\chi^2/\text{NDF}$ : 44203.1/4

# reg\_asym\_us\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -31.874+/-1.574  $\chi^2/\text{NDF}$ : 14.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

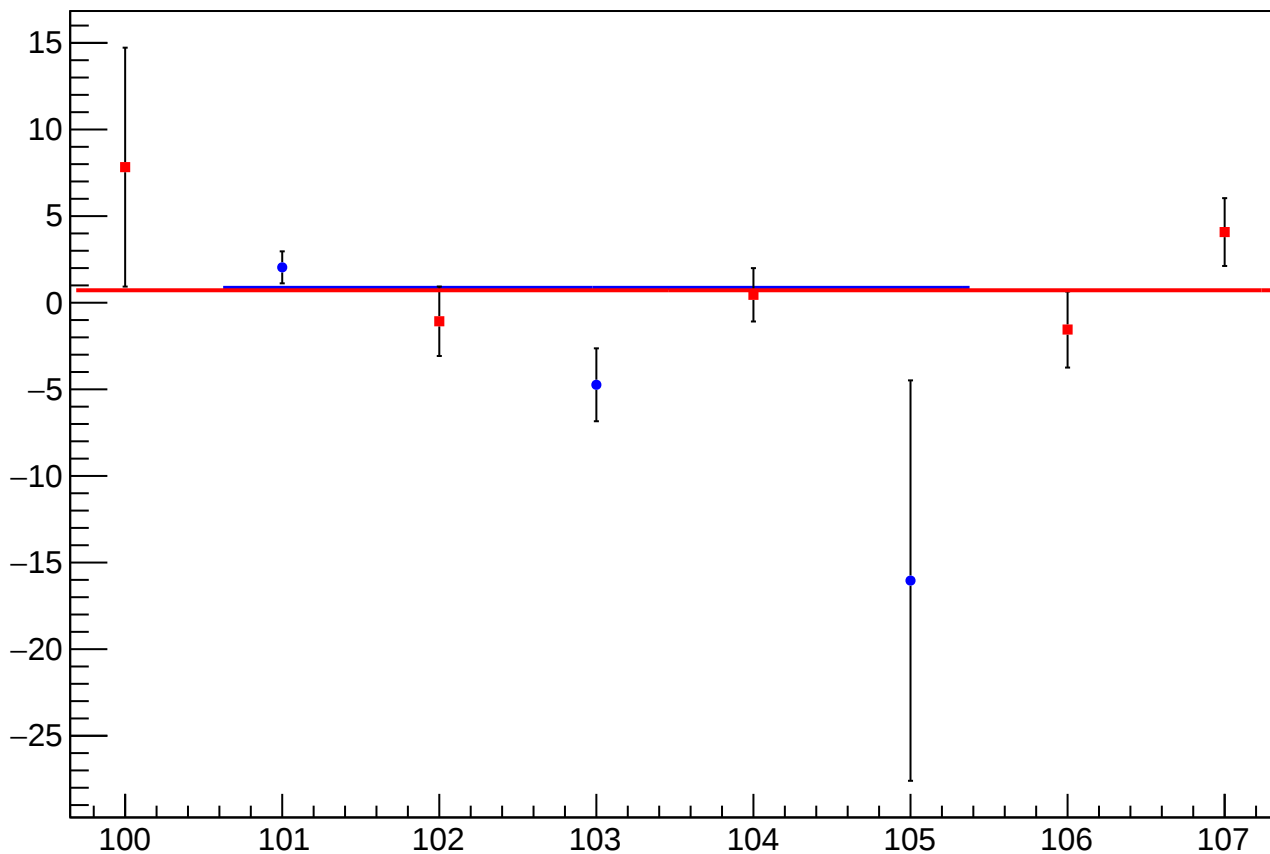
Right Out: -25.620+/-1.639  $\chi^2/\text{NDF}$ : 57.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-31.874+/-1.574  $\chi^2/\text{NDF}$ : 14.0/2

-25.620+/-1.639  $\chi^2/\text{NDF}$ : 57.7/4

# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.858+/-0.843  $\chi^2/\text{NDF}$ : 10.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

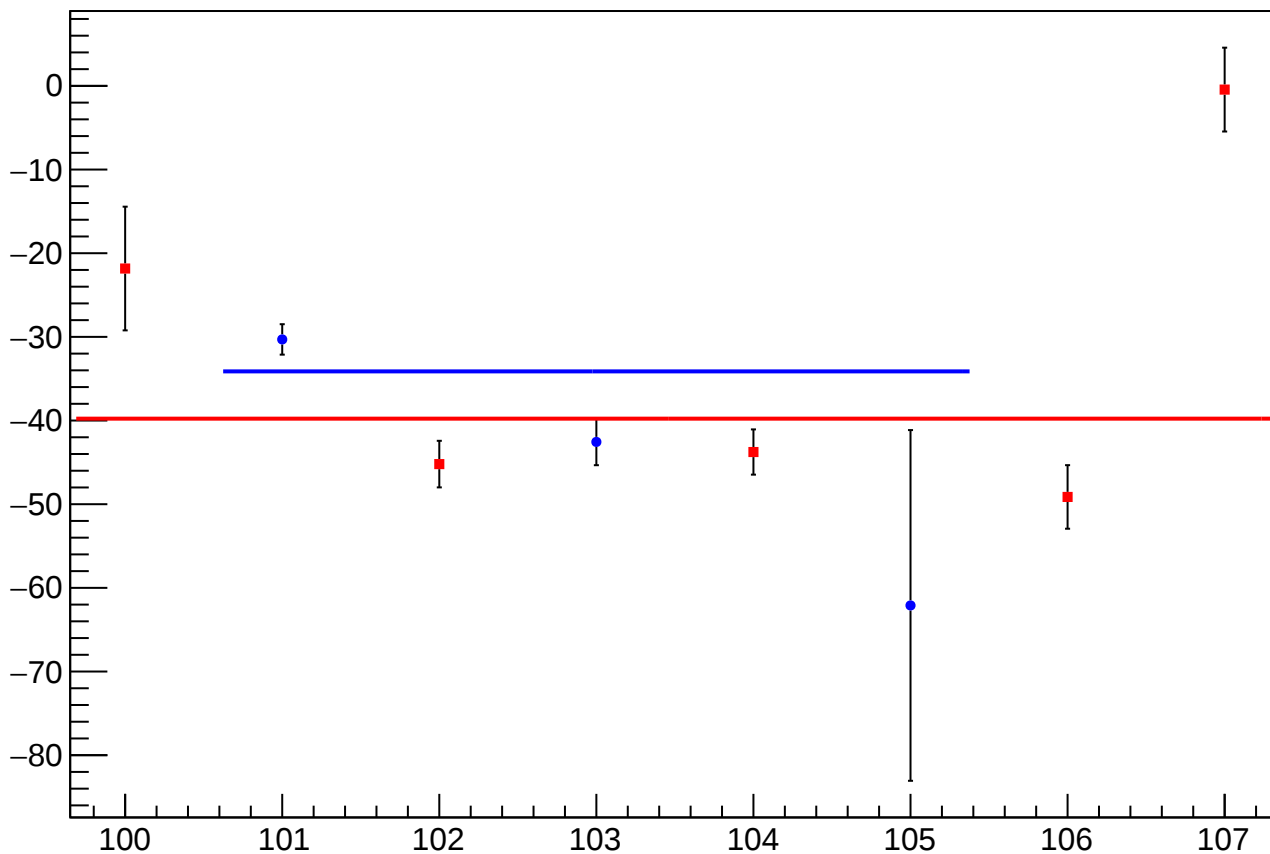
Right Out: 0.719+/-0.929  $\chi^2/\text{NDF}$ : 5.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.858+/-0.843  $\chi^2/\text{NDF}$ : 10.9/2

0.719+/-0.929  $\chi^2/\text{NDF}$ : 5.9/4

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -34.125 $\pm$ 1.518  $\chi^2$ /NDF: 15.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

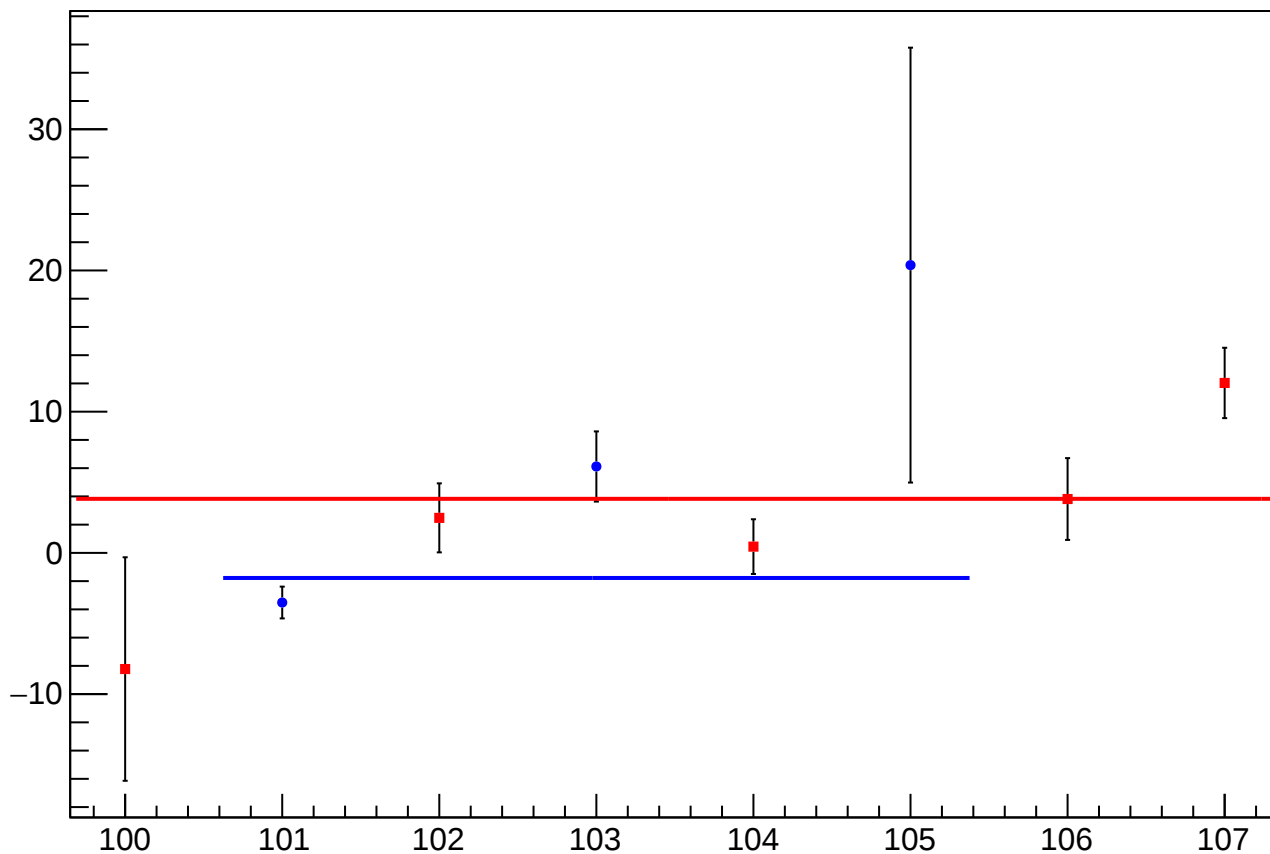
Right Out: -39.775 $\pm$ 1.595  $\chi^2$ /NDF: 79.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-34.125 $\pm$ 1.518  $\chi^2$ /NDF: 15.4/2

-39.775 $\pm$ 1.595  $\chi^2$ /NDF: 79.6/4

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -1.775+/-1.023  $\chi^2/\text{NDF}$ : 14.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

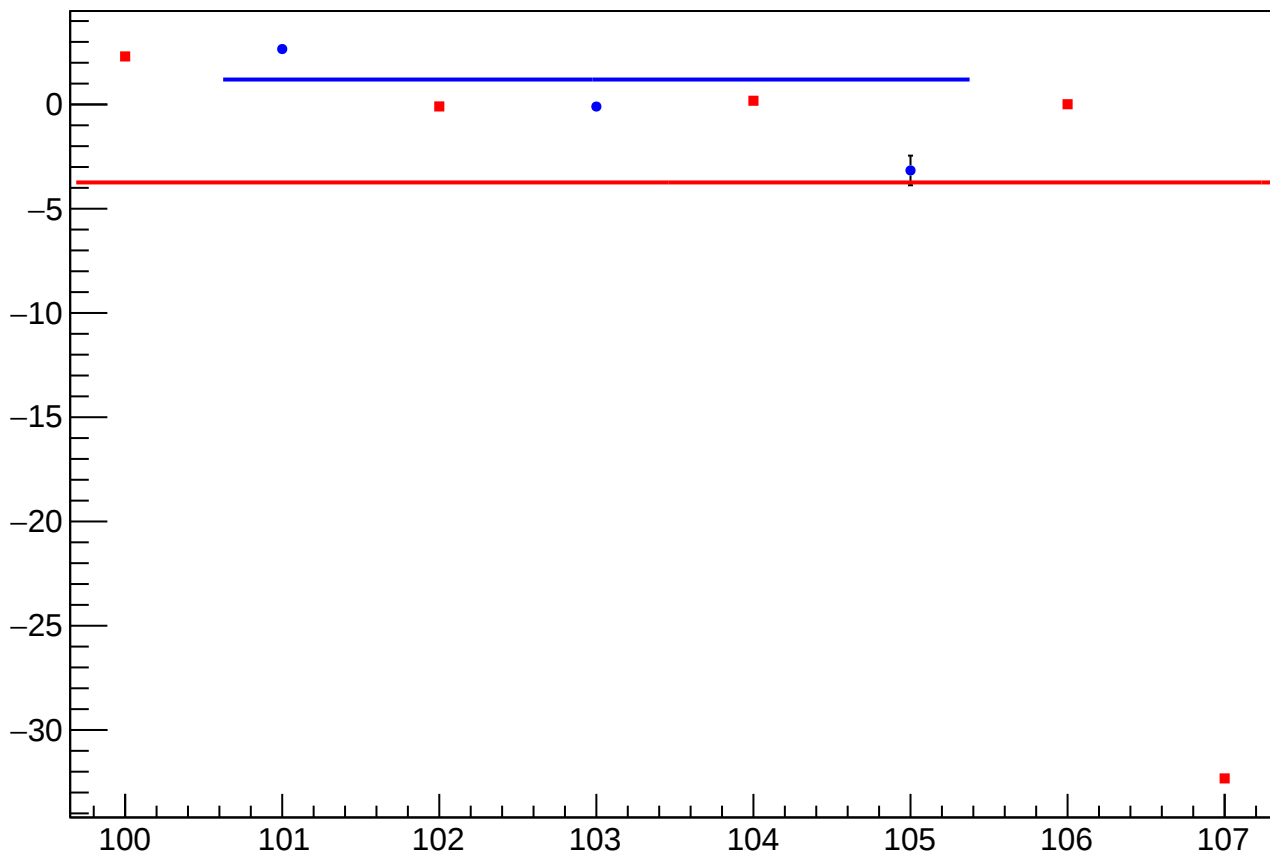
Right Out: 3.829+/-1.170  $\chi^2/\text{NDF}$ : 16.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.775+/-1.023  $\chi^2/\text{NDF}$ : 14.5/2

3.829+/-1.170  $\chi^2/\text{NDF}$ : 16.5/4

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs slug



Right In: 1.195+/-0.045  $\chi^2/\text{NDF}$ : 969.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

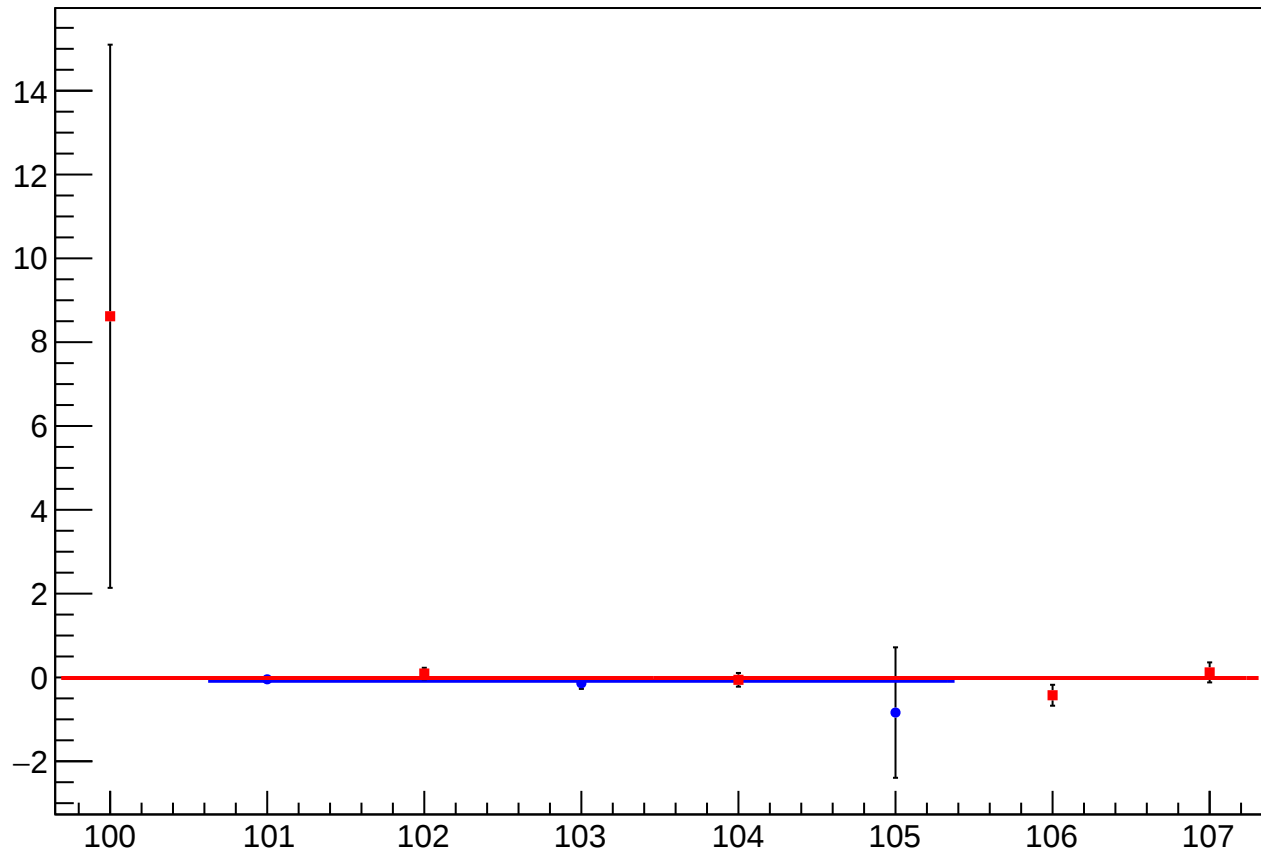
Right Out: -3.740+/-0.040  $\chi^2/\text{NDF}$ : 70114.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.195+/-0.045  $\chi^2/\text{NDF}$ : 969.7/2

-3.740+/-0.040  $\chi^2/\text{NDF}$ : 70114.0/4

# reg\_asym\_ds\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -0.080 +/- 0.080  $\chi^2/\text{NDF}$ : 0.6/2

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

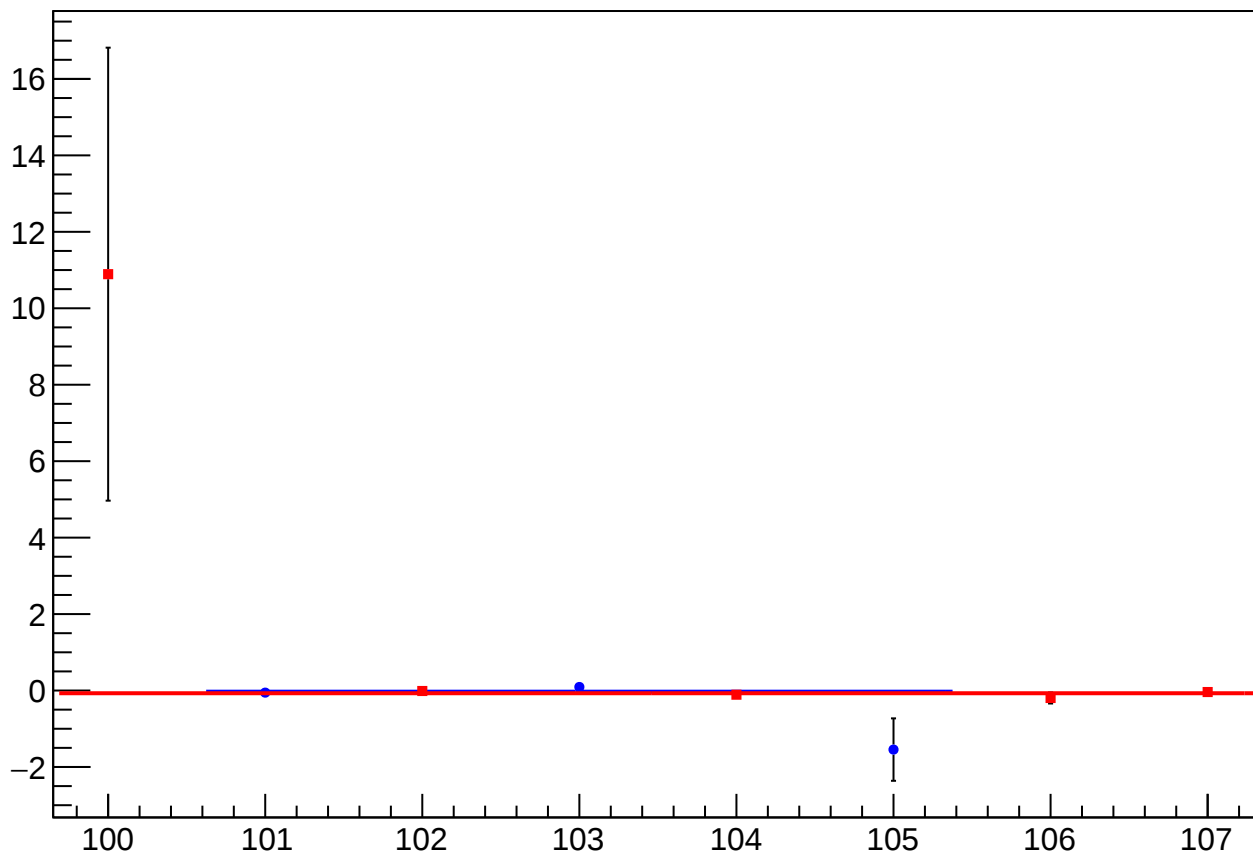
Right Out: -0.013 +/- 0.090  $\chi^2/\text{NDF}$ : 5.5/4

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.080 +/- 0.080  $\chi^2/\text{NDF}$ : 0.6/2

-0.013 +/- 0.090  $\chi^2/\text{NDF}$ : 5.5/4

# reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs slug



Right In: -0.030+/-0.044  $\chi^2/\text{NDF}$ : 5.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

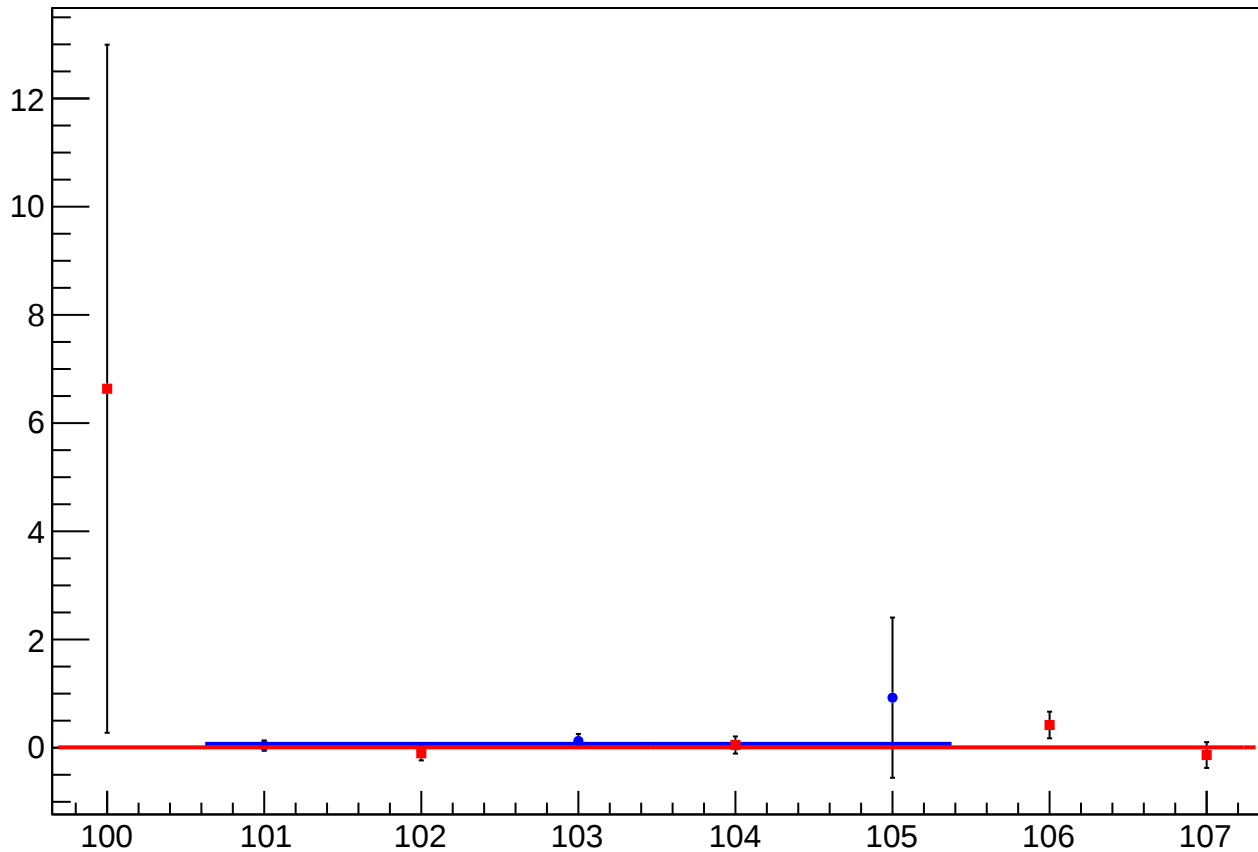
Right Out: -0.071+/-0.051  $\chi^2/\text{NDF}$ : 4.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.030+/-0.044  $\chi^2/\text{NDF}$ : 5.3/2

-0.071+/-0.051  $\chi^2/\text{NDF}$ : 4.8/4

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.071+/-0.077  $\chi^2/\text{NDF}$ : 0.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

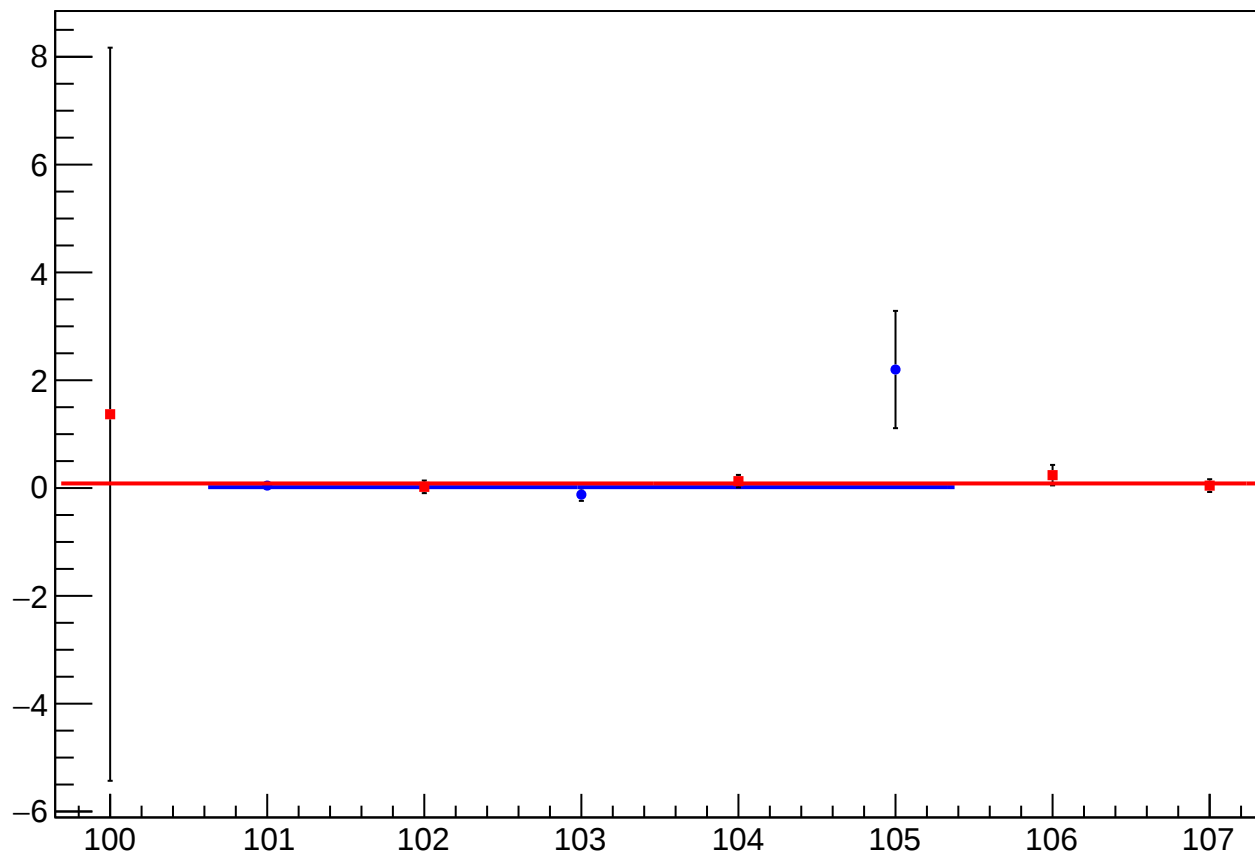
Right Out: 0.007+/-0.087  $\chi^2/\text{NDF}$ : 5.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.071+/-0.077  $\chi^2/\text{NDF}$ : 0.6/2

0.007+/-0.087  $\chi^2/\text{NDF}$ : 5.0/4

# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.017+/-0.053  $\chi^2/\text{NDF}$ : 5.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

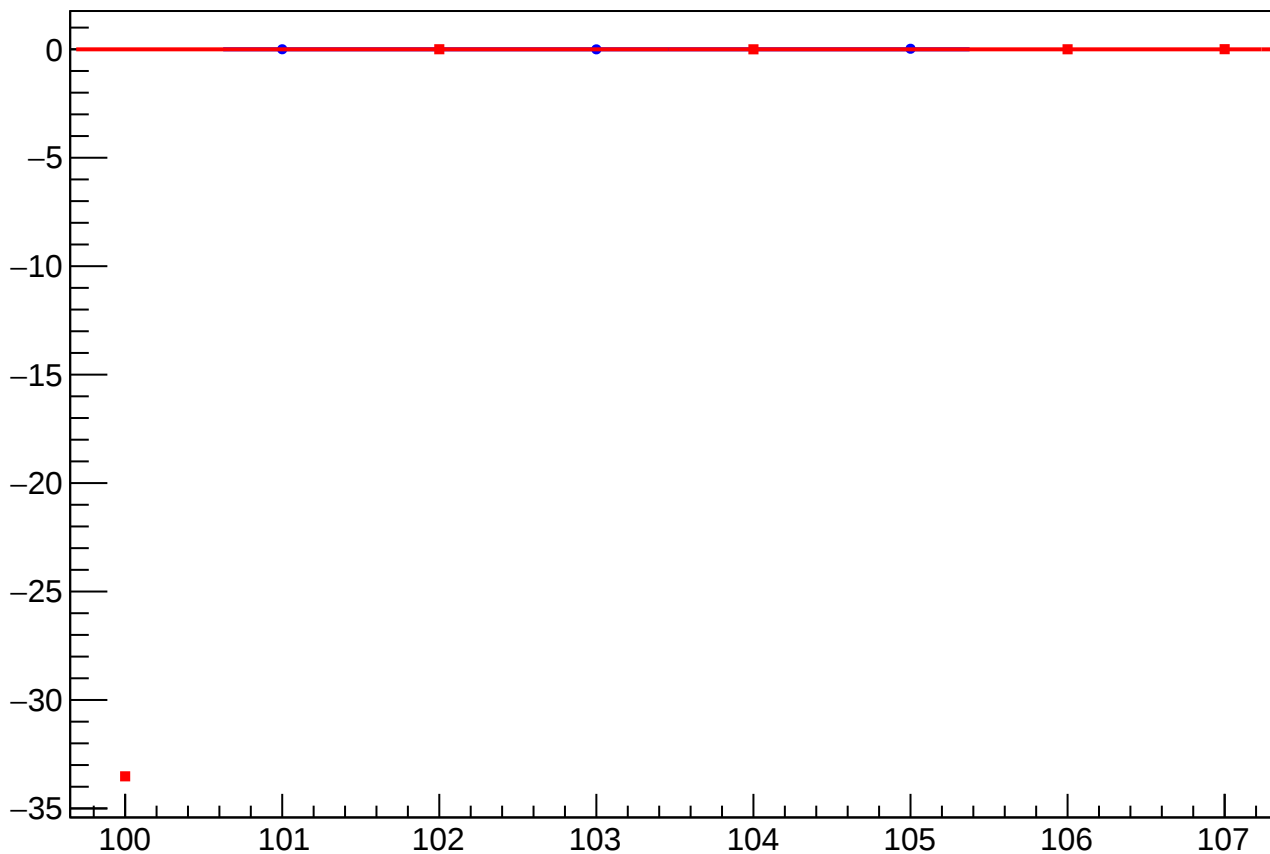
Right Out: 0.085+/-0.064  $\chi^2/\text{NDF}$ : 1.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.017+/-0.053  $\chi^2/\text{NDF}$ : 5.7/2

0.085+/-0.064  $\chi^2/\text{NDF}$ : 1.2/4

# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs slug



Right In: -0.001 $\pm$ 0.002  $\chi^2$ /NDF: 1.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

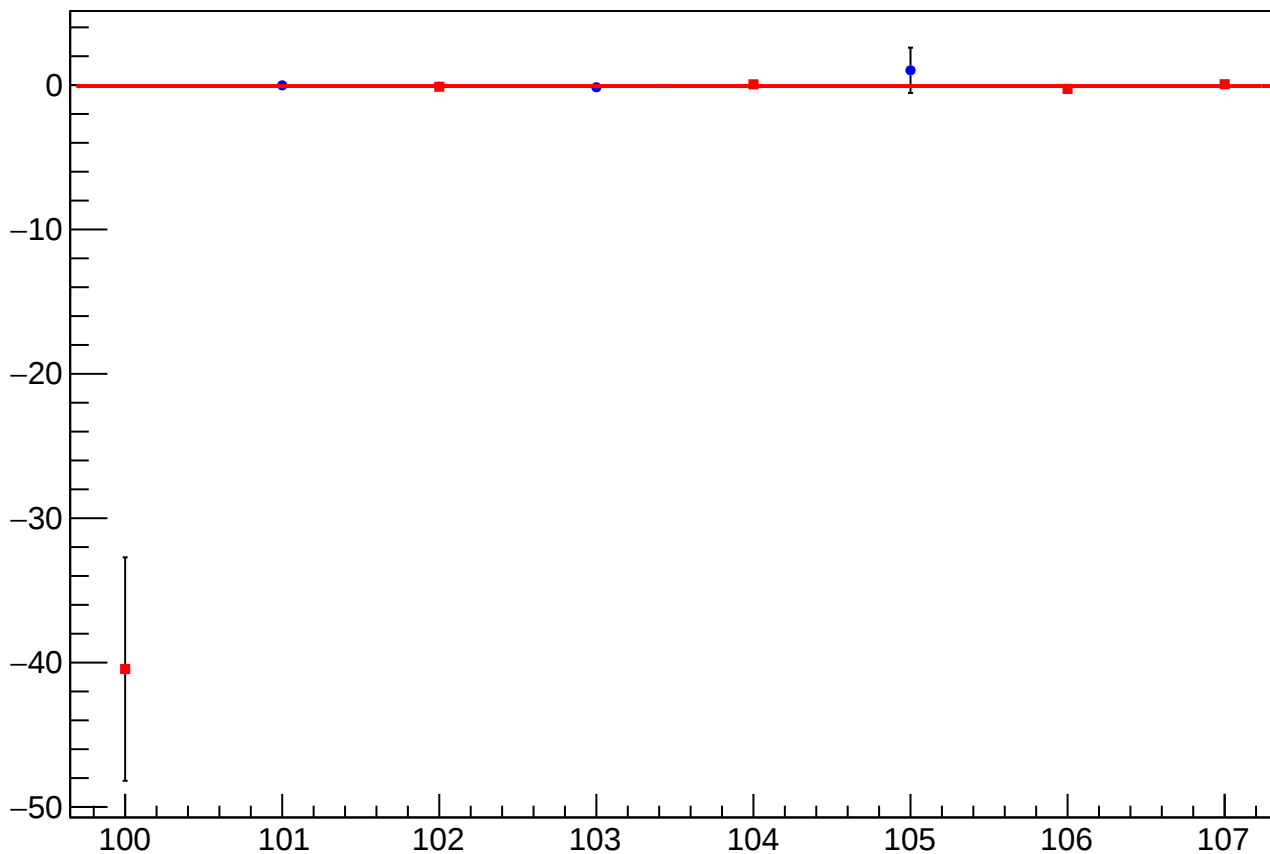
Right Out: -0.002 $\pm$ 0.002  $\chi^2$ /NDF: 26493.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.001 $\pm$ 0.002  $\chi^2$ /NDF: 1.0/2

-0.002 $\pm$ 0.002  $\chi^2$ /NDF: 26493.9/4

# reg\_asym\_ds\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -0.063 $\pm$ 0.080  $\chi^2$ /NDF: 1.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

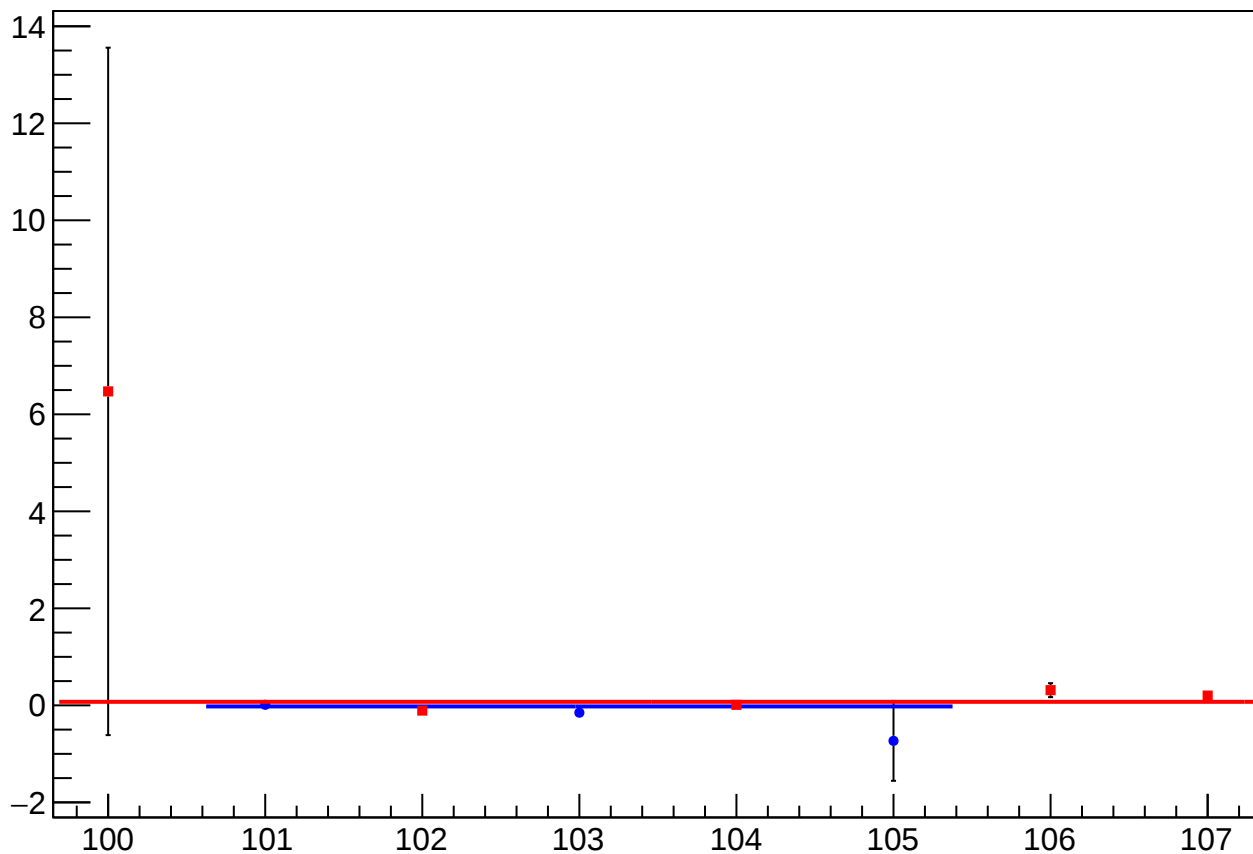
Right Out: -0.065 $\pm$ 0.090  $\chi^2$ /NDF: 28.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.063 $\pm$ 0.080  $\chi^2$ /NDF: 1.1/2

-0.065 $\pm$ 0.090  $\chi^2$ /NDF: 28.8/4

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -0.022+/-0.043  $\chi^2/\text{NDF}$ : 2.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

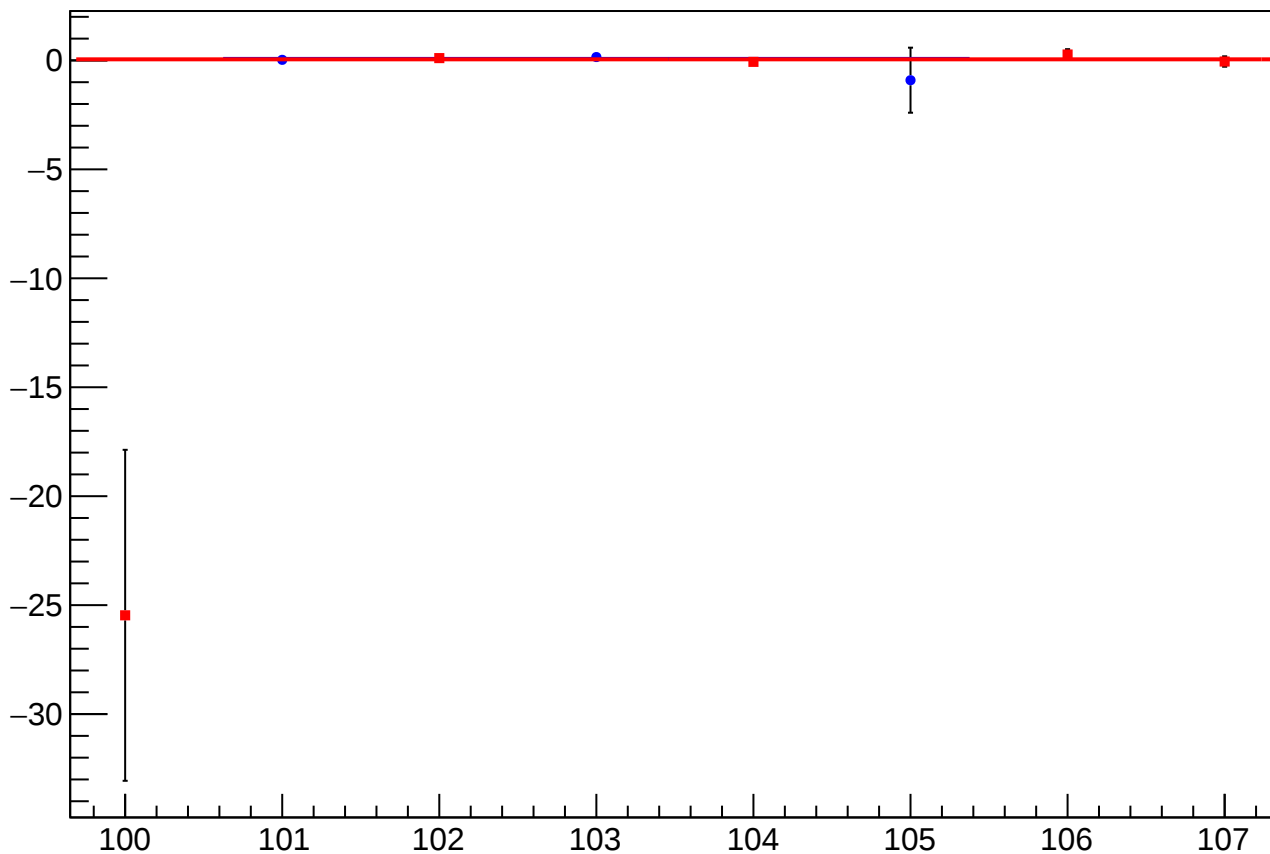
Right Out: 0.073+/-0.051  $\chi^2/\text{NDF}$ : 9.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.022+/-0.043  $\chi^2/\text{NDF}$ : 2.9/2

0.073+/-0.051  $\chi^2/\text{NDF}$ : 9.5/4

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.068+/-0.077  $\chi^2/\text{NDF}$ : 1.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

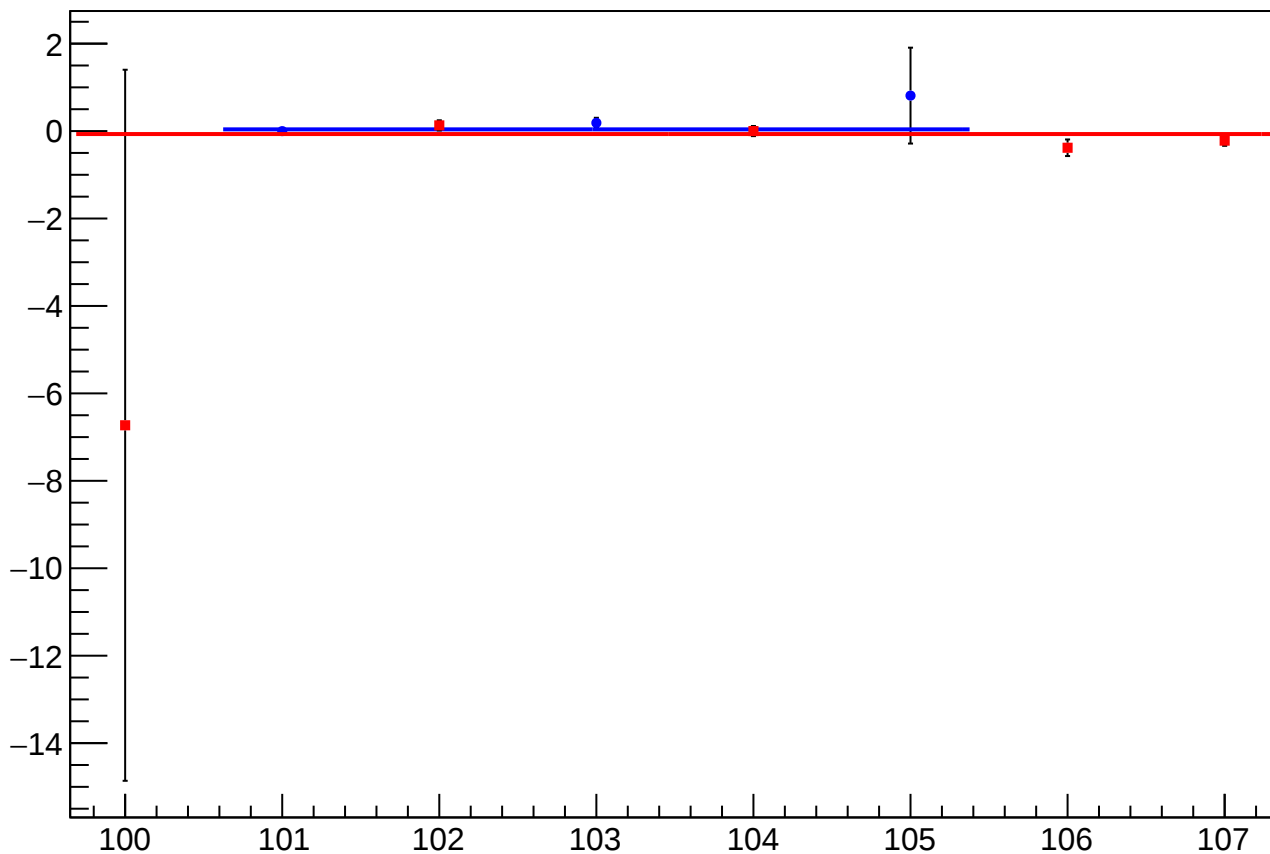
Right Out: 0.049+/-0.087  $\chi^2/\text{NDF}$ : 13.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.068+/-0.077  $\chi^2/\text{NDF}$ : 1.1/2

0.049+/-0.087  $\chi^2/\text{NDF}$ : 13.0/4

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.039+/-0.053     $\chi^2/\text{NDF}$ : 2.6/2

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

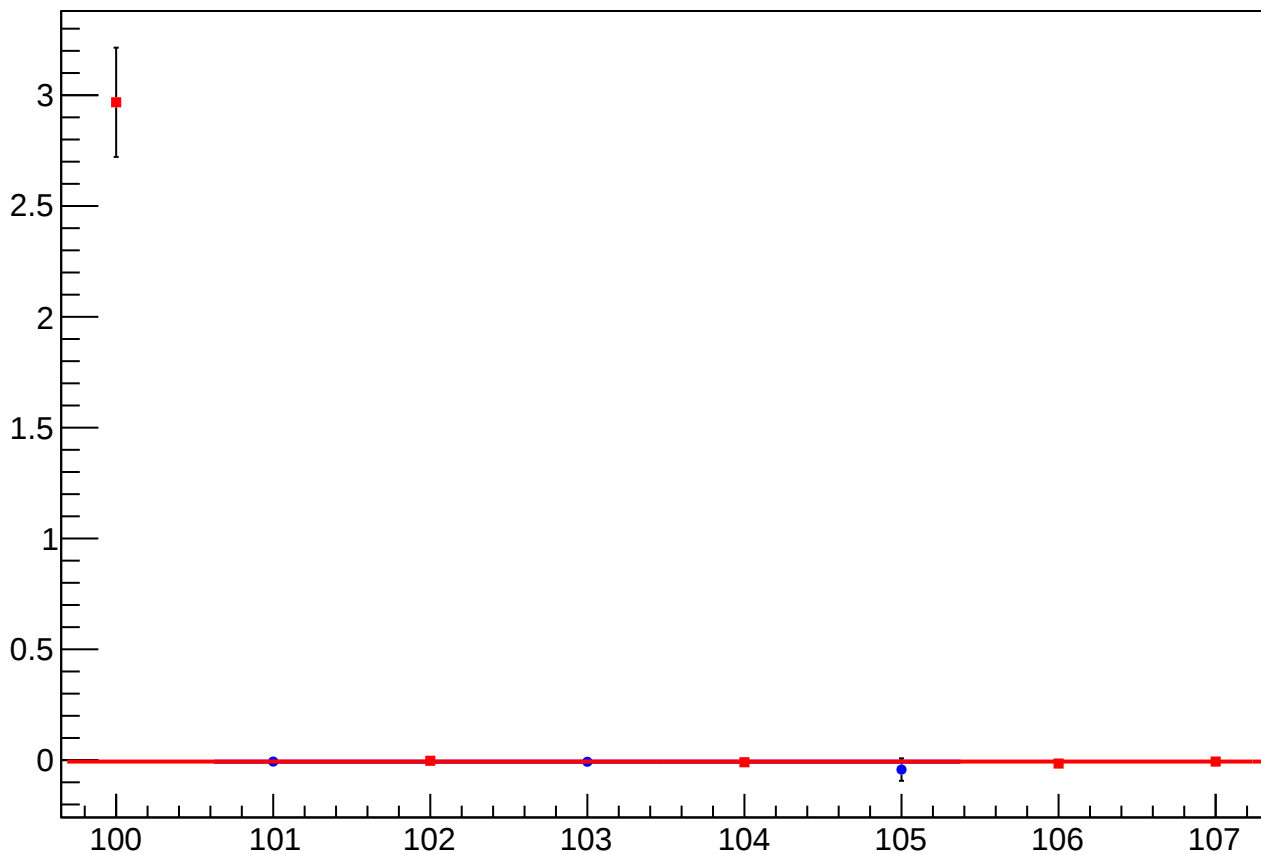
0.039+/-0.053     $\chi^2/\text{NDF}$ : 2.6/2

Right Out: -0.068+/-0.064     $\chi^2/\text{NDF}$ : 8.2/4

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

-0.068+/-0.064     $\chi^2/\text{NDF}$ : 8.2/4

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs slug



Right In: -0.007 $\pm$ 0.002  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

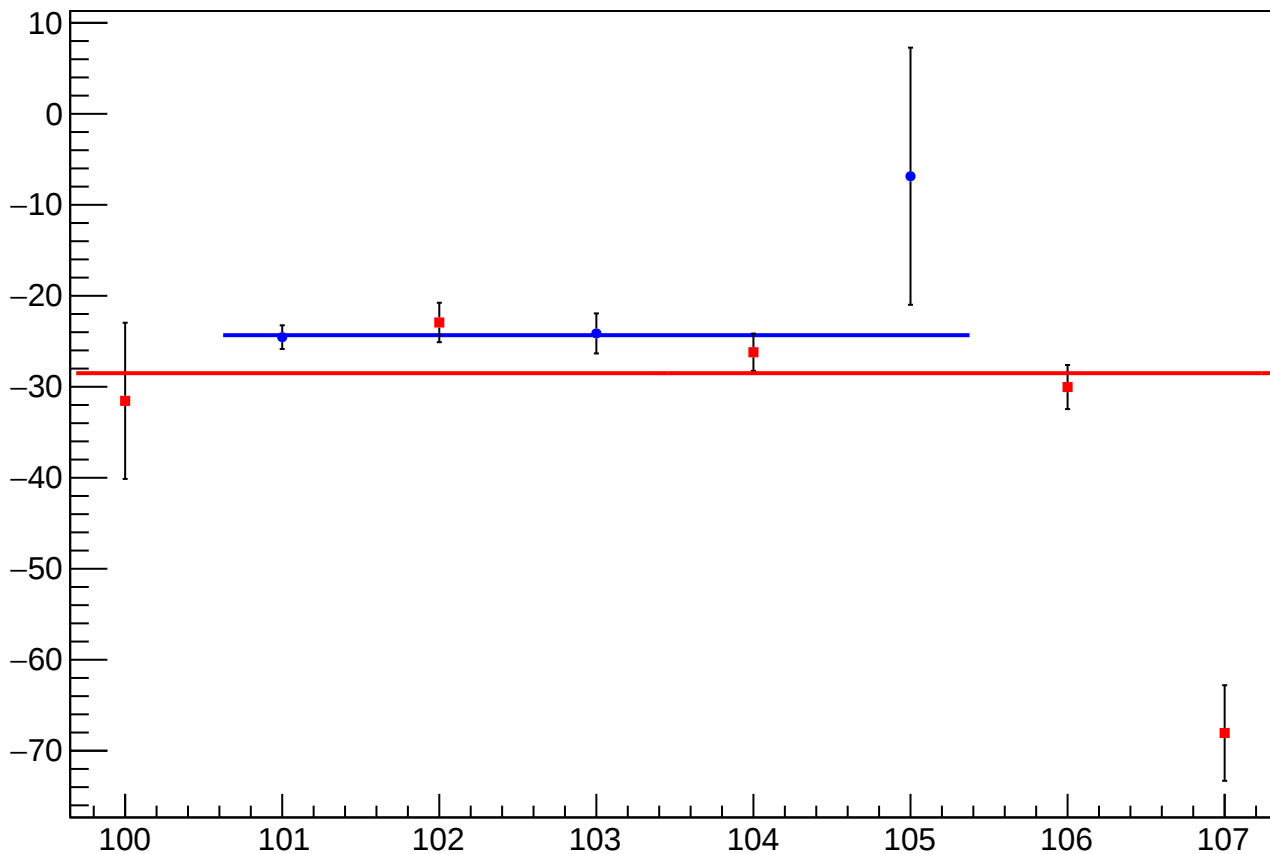
Right Out: -0.006 $\pm$ 0.002  $\chi^2$ /NDF: 149.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.007 $\pm$ 0.002  $\chi^2$ /NDF: 0.5/2

-0.006 $\pm$ 0.002  $\chi^2$ /NDF: 149.6/4

# reg\_asym\_left\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -24.328 $\pm$ 1.117  $\chi^2$ /NDF: 1.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

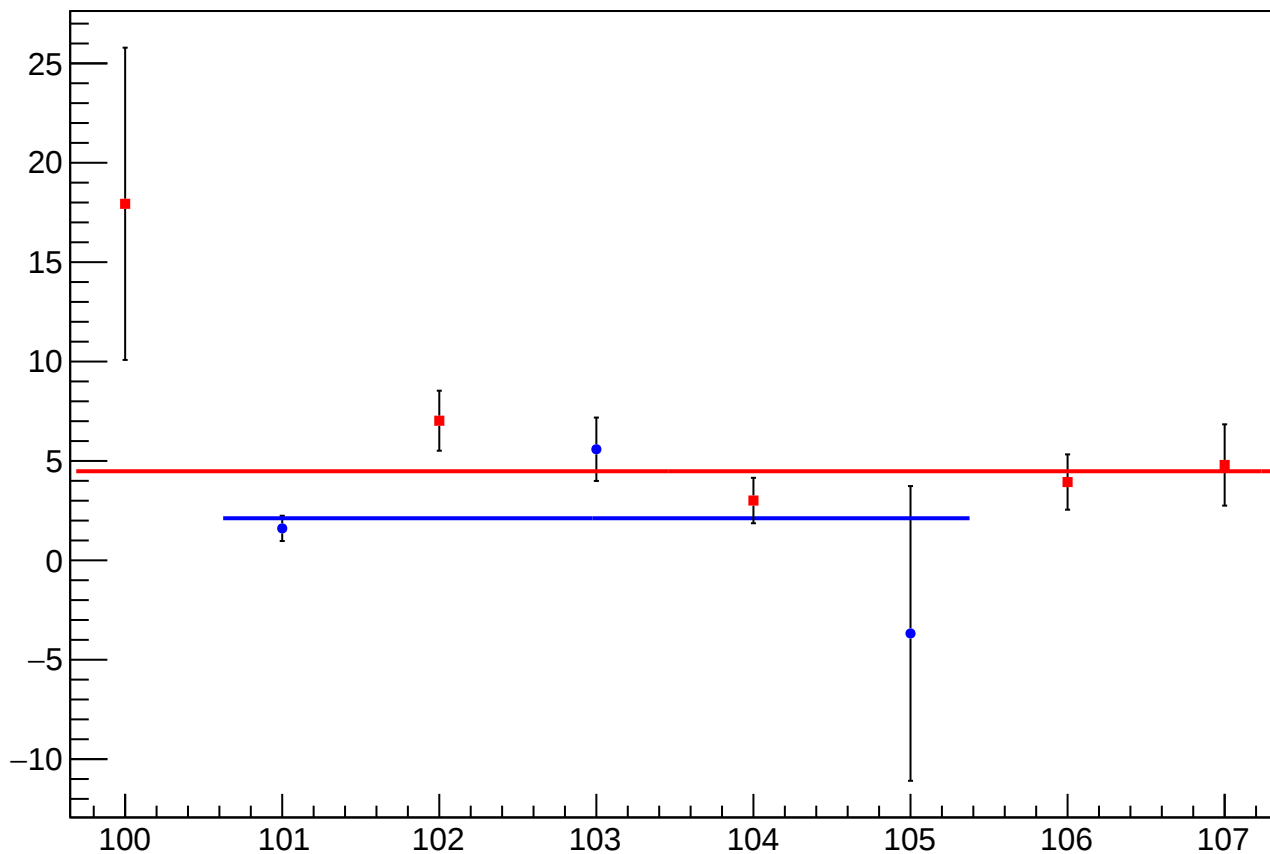
Right Out: -28.505 $\pm$ 1.221  $\chi^2$ /NDF: 65.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-24.328 $\pm$ 1.117  $\chi^2$ /NDF: 1.6/2

-28.505 $\pm$ 1.221  $\chi^2$ /NDF: 65.1/4

reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 2.118 $\pm$ 0.589  $\chi^2$ /NDF: 6.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

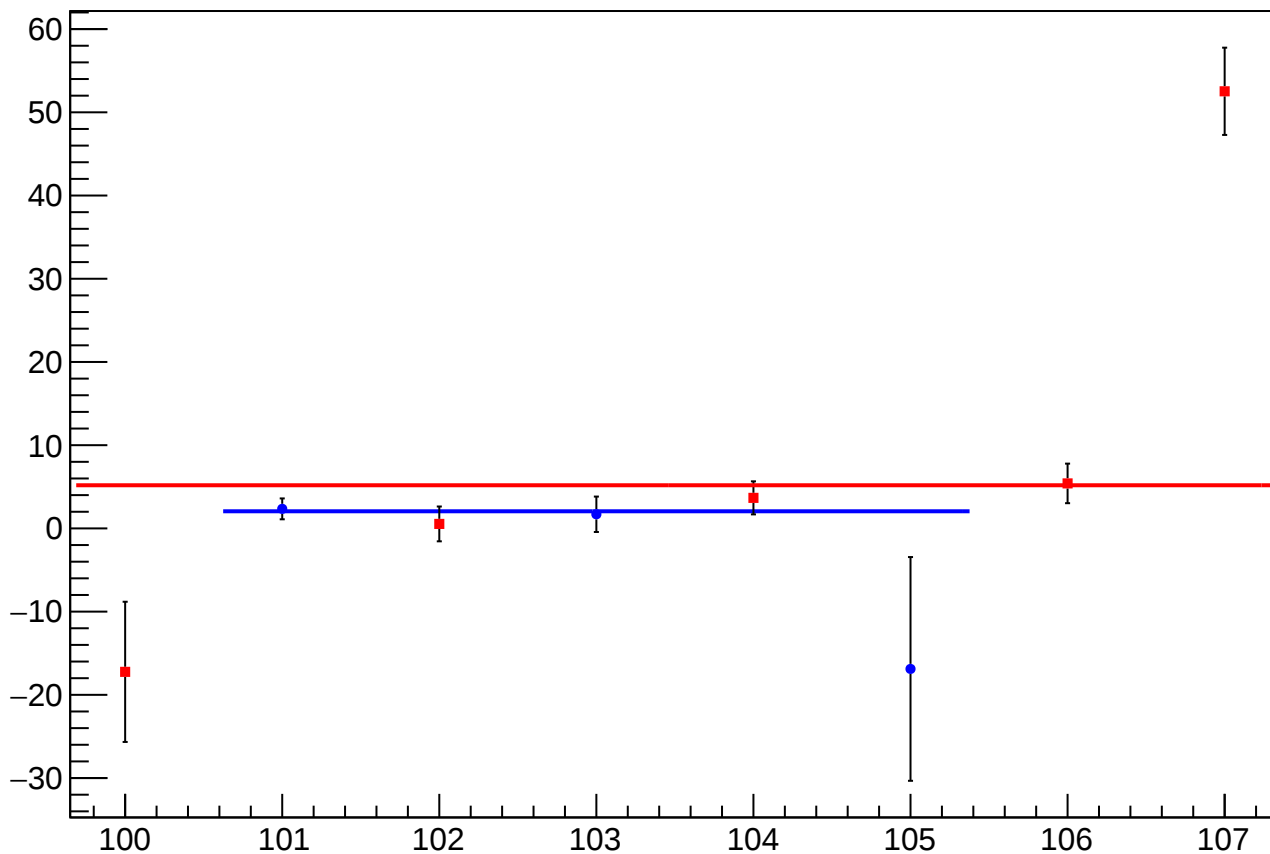
Right Out: 4.482 $\pm$ 0.711  $\chi^2$ /NDF: 7.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2.118 $\pm$ 0.589  $\chi^2$ /NDF: 6.0/2

4.482 $\pm$ 0.711  $\chi^2$ /NDF: 7.6/4

reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 2.058+/-1.077  $\chi^2/\text{NDF}$ : 2.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

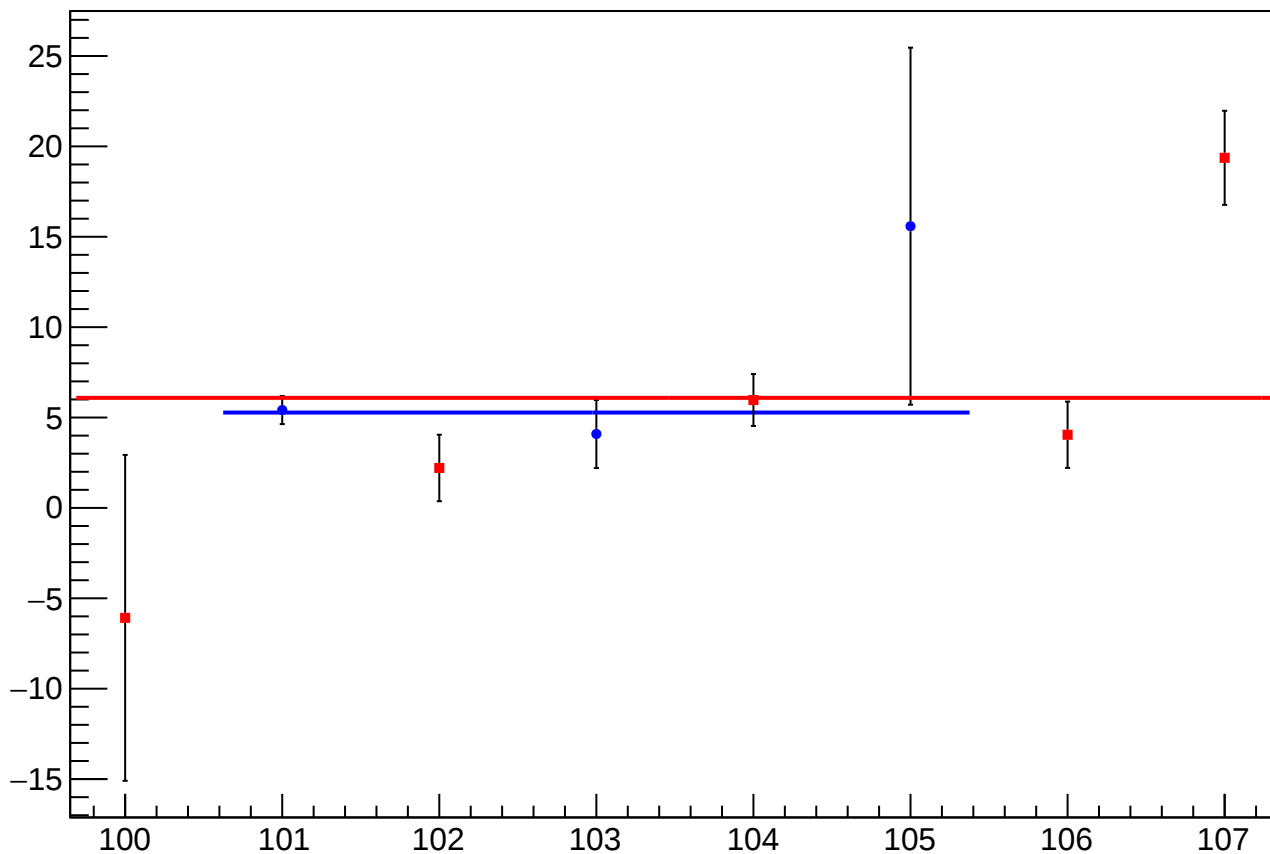
Right Out: 5.184+/-1.187  $\chi^2/\text{NDF}$ : 94.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.058+/-1.077  $\chi^2/\text{NDF}$ : 2.1/2

5.184+/-1.187  $\chi^2/\text{NDF}$ : 94.1/4

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 5.276+/-0.716  $\chi^2/\text{NDF}$ : 1.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

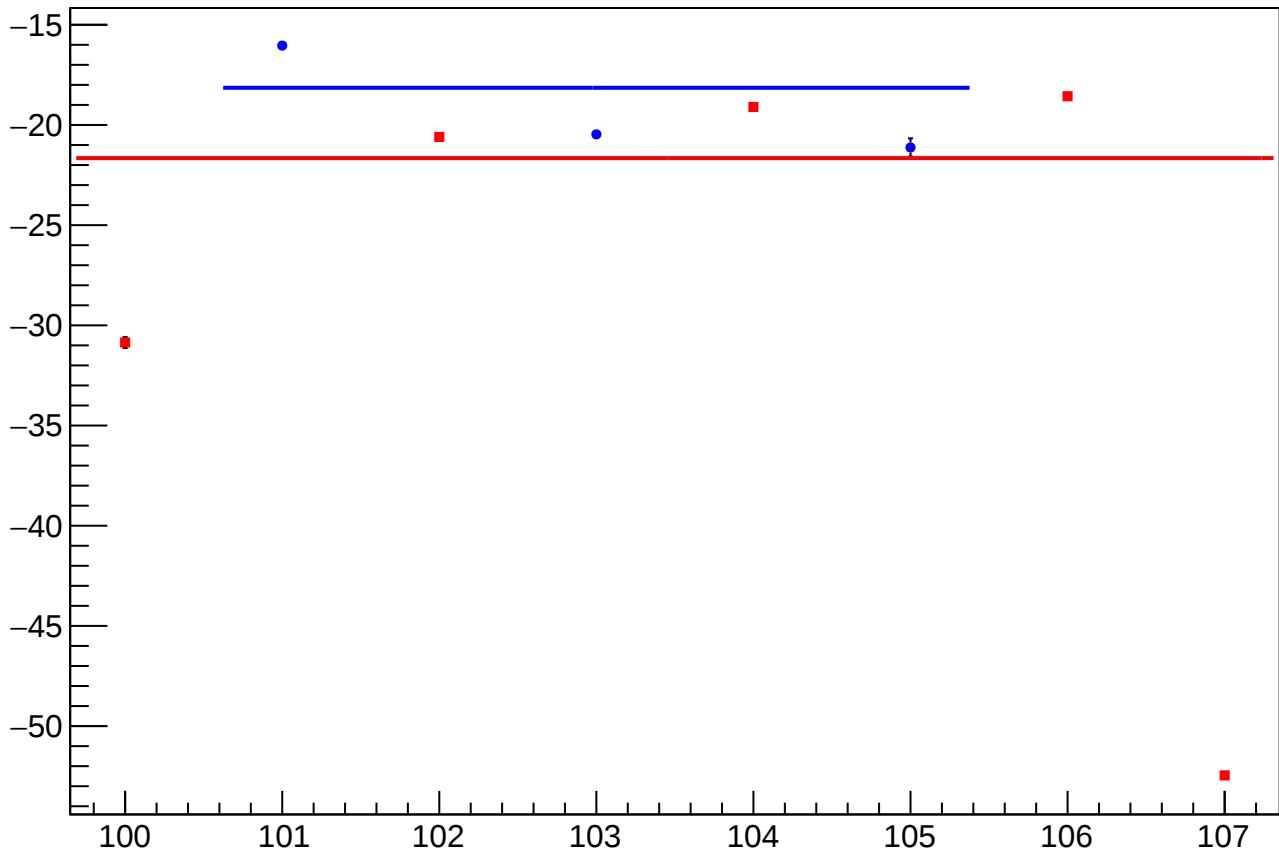
Right Out: 6.089+/-0.899  $\chi^2/\text{NDF}$ : 33.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.276+/-0.716  $\chi^2/\text{NDF}$ : 1.5/2

6.089+/-0.899  $\chi^2/\text{NDF}$ : 33.6/4

# reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs slug



Right In: -18.144 $\pm$ 0.033  $\chi^2$ /NDF: 4593.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

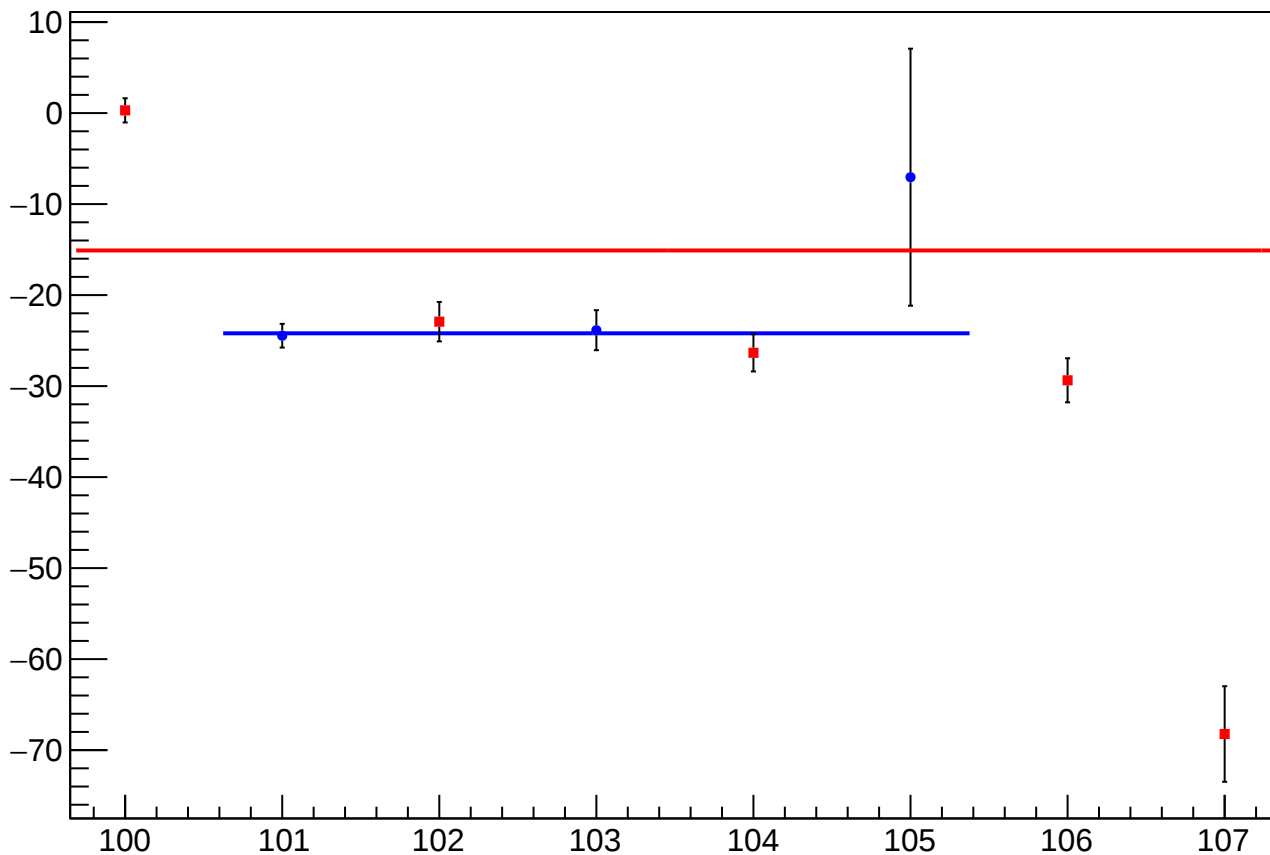
-18.144 $\pm$ 0.033  $\chi^2$ /NDF: 4593.7/2

Right Out: -21.652 $\pm$ 0.030  $\chi^2$ /NDF: 71989.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-21.652 $\pm$ 0.030  $\chi^2$ /NDF: 71989.1/4

# reg\_asym\_left\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -24.199 $\pm$ 1.116  $\chi^2$ /NDF: 1.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

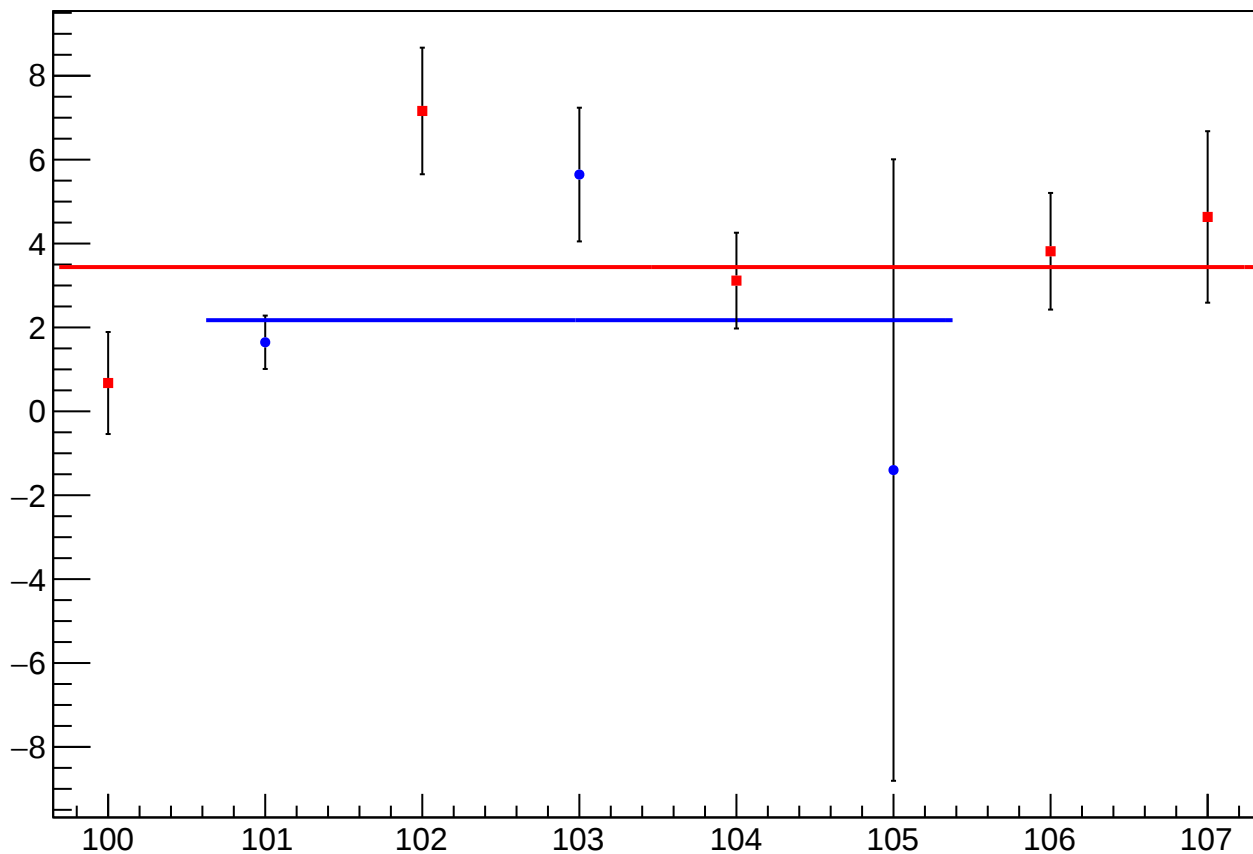
Right Out: -15.095 $\pm$ 0.904  $\chi^2$ /NDF: 314.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-24.199 $\pm$ 1.116  $\chi^2$ /NDF: 1.5/2

-15.095 $\pm$ 0.904  $\chi^2$ /NDF: 314.2/4

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 2.173 $\pm$ 0.589  $\chi^2$ /NDF: 5.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

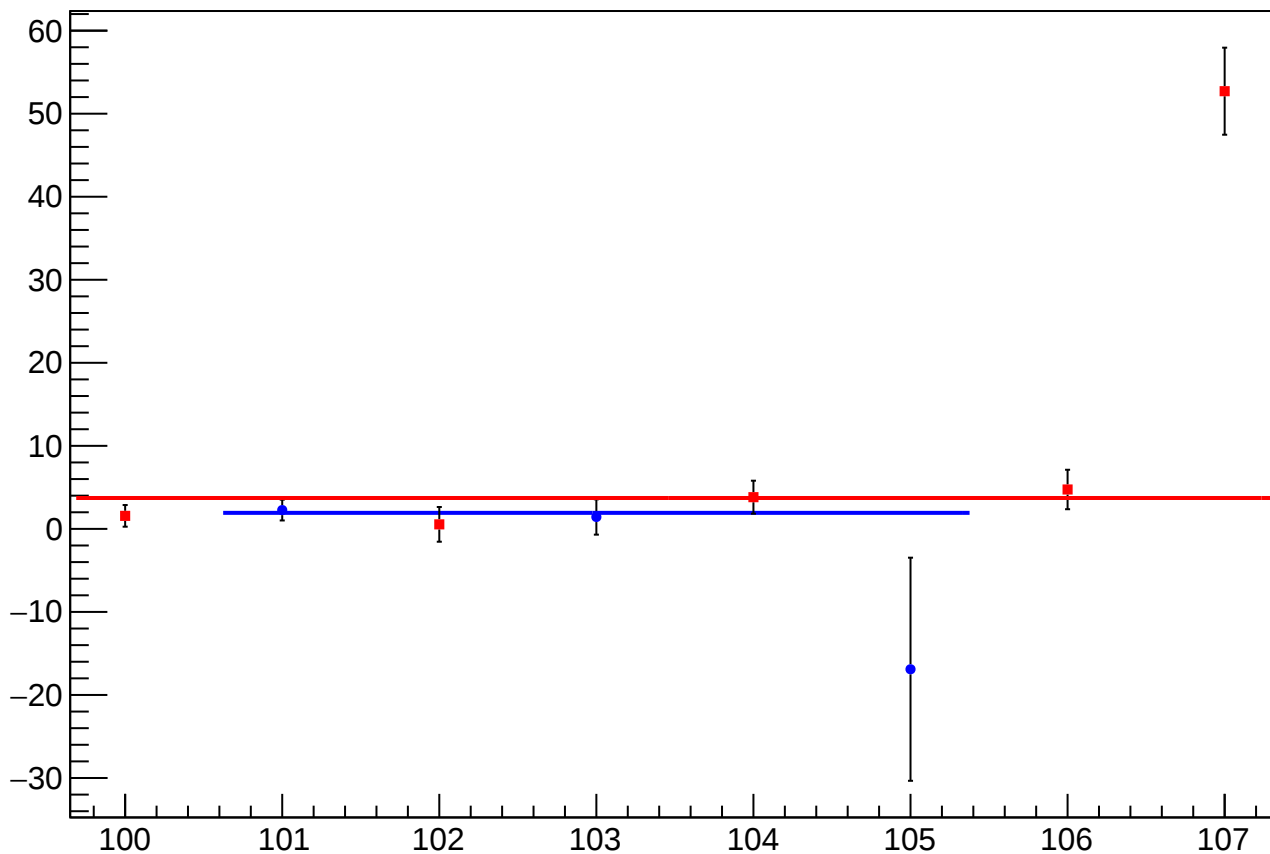
Right Out: 3.439 $\pm$ 0.616  $\chi^2$ /NDF: 11.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2.173 $\pm$ 0.589  $\chi^2$ /NDF: 5.7/2

3.439 $\pm$ 0.616  $\chi^2$ /NDF: 11.7/4

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 1.930+/-1.076  $\chi^2/\text{NDF}$ : 2.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

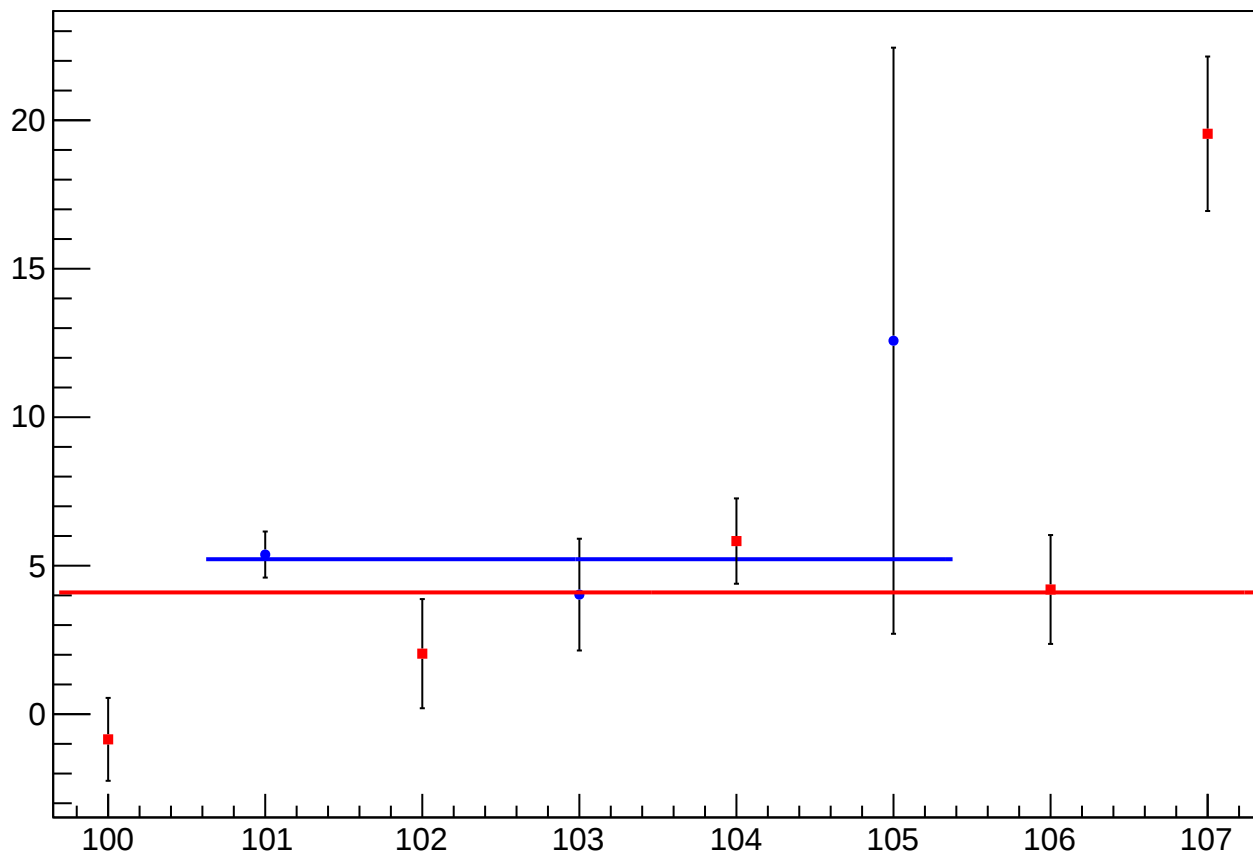
Right Out: 3.720+/-0.883  $\chi^2/\text{NDF}$ : 92.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.930+/-1.076  $\chi^2/\text{NDF}$ : 2.1/2

3.720+/-0.883  $\chi^2/\text{NDF}$ : 92.6/4

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 5.218+/-0.715  $\chi^2/\text{NDF}$ : 1.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

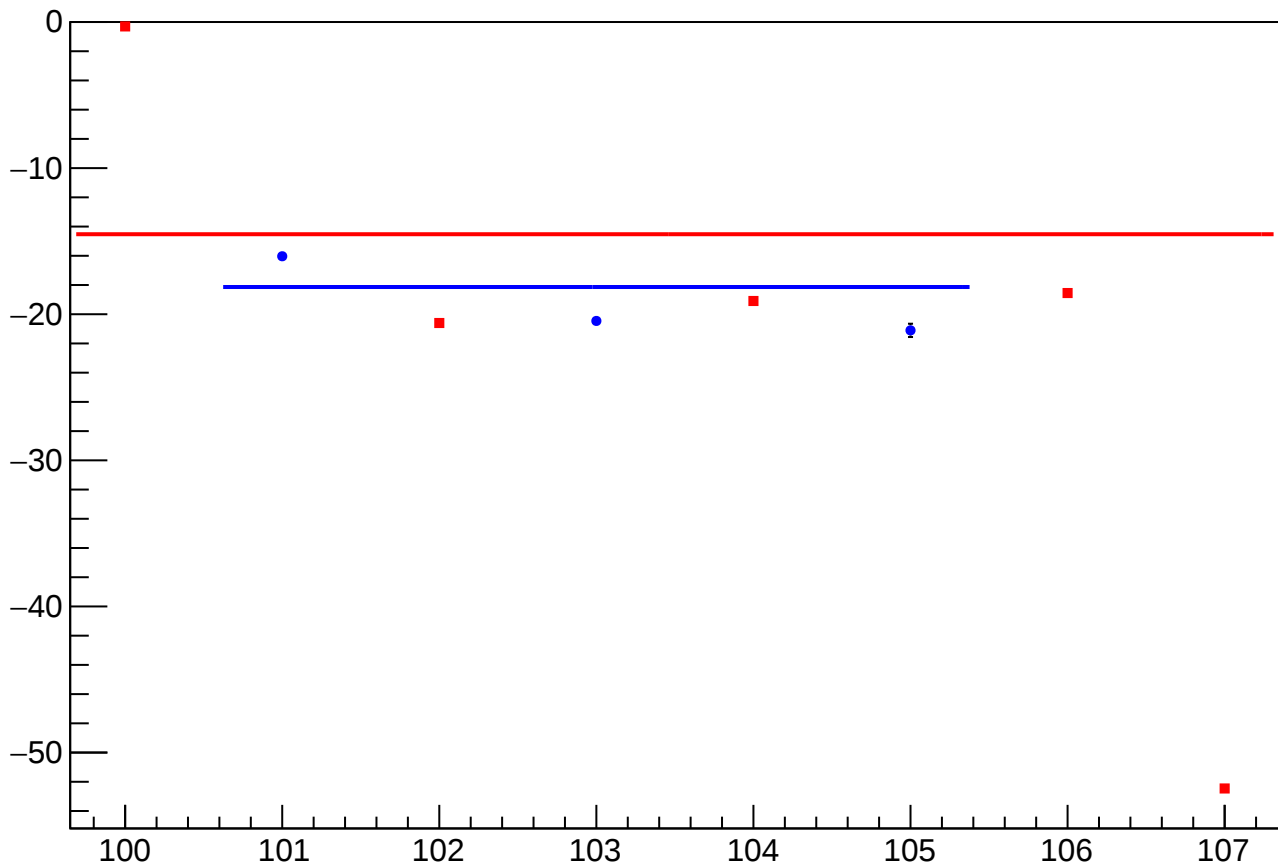
Right Out: 4.100+/-0.758  $\chi^2/\text{NDF}$ : 50.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.218+/-0.715  $\chi^2/\text{NDF}$ : 1.0/2

4.100+/-0.758  $\chi^2/\text{NDF}$ : 50.5/4

# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs slug



Right In: -18.137 $\pm$ 0.033  $\chi^2$ /NDF: 4589.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

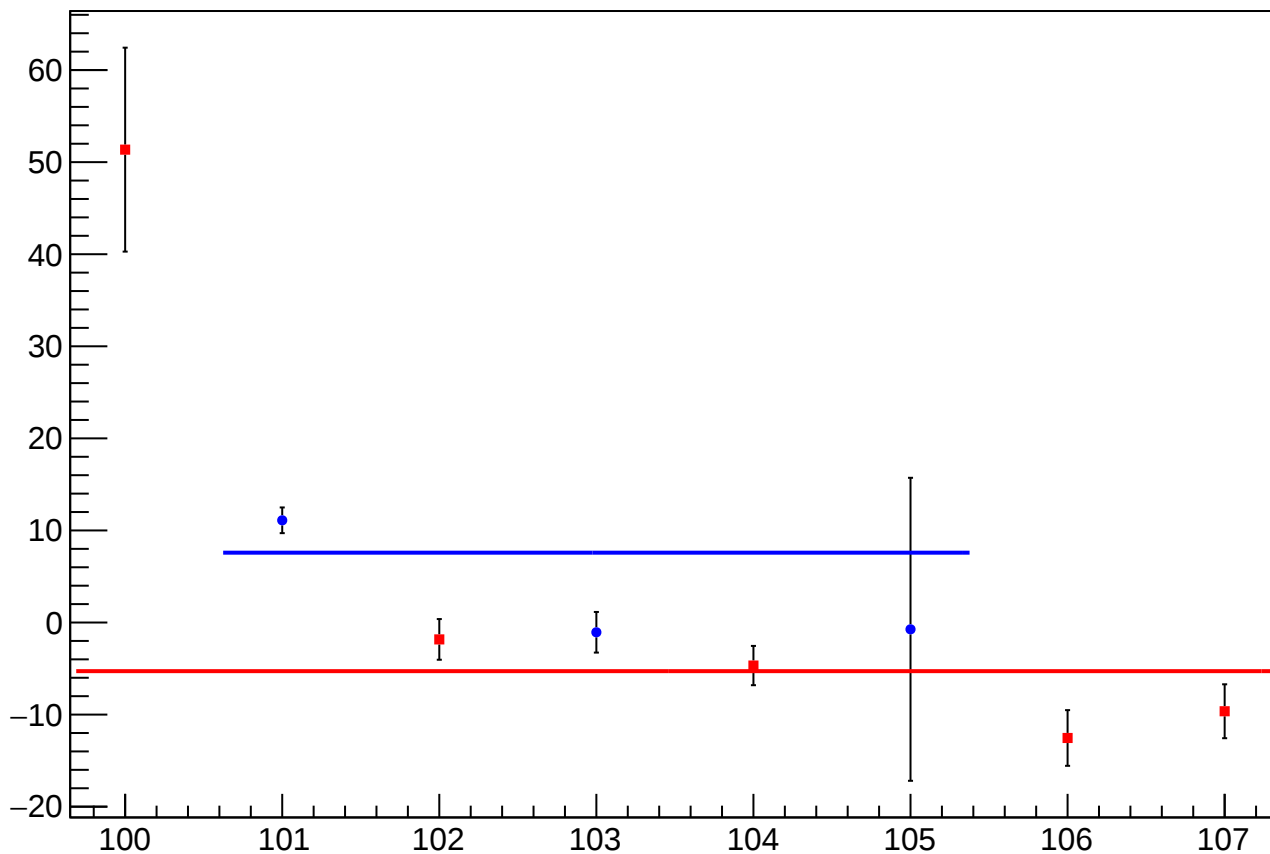
-18.137 $\pm$ 0.033  $\chi^2$ /NDF: 4589.7/2

Right Out: -14.524 $\pm$ 0.024  $\chi^2$ /NDF: 239883.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-14.524 $\pm$ 0.024  $\chi^2$ /NDF: 239883.9/4

# reg\_asym\_right\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 7.586+/-1.176  $\chi^2/\text{NDF}$ : 22.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

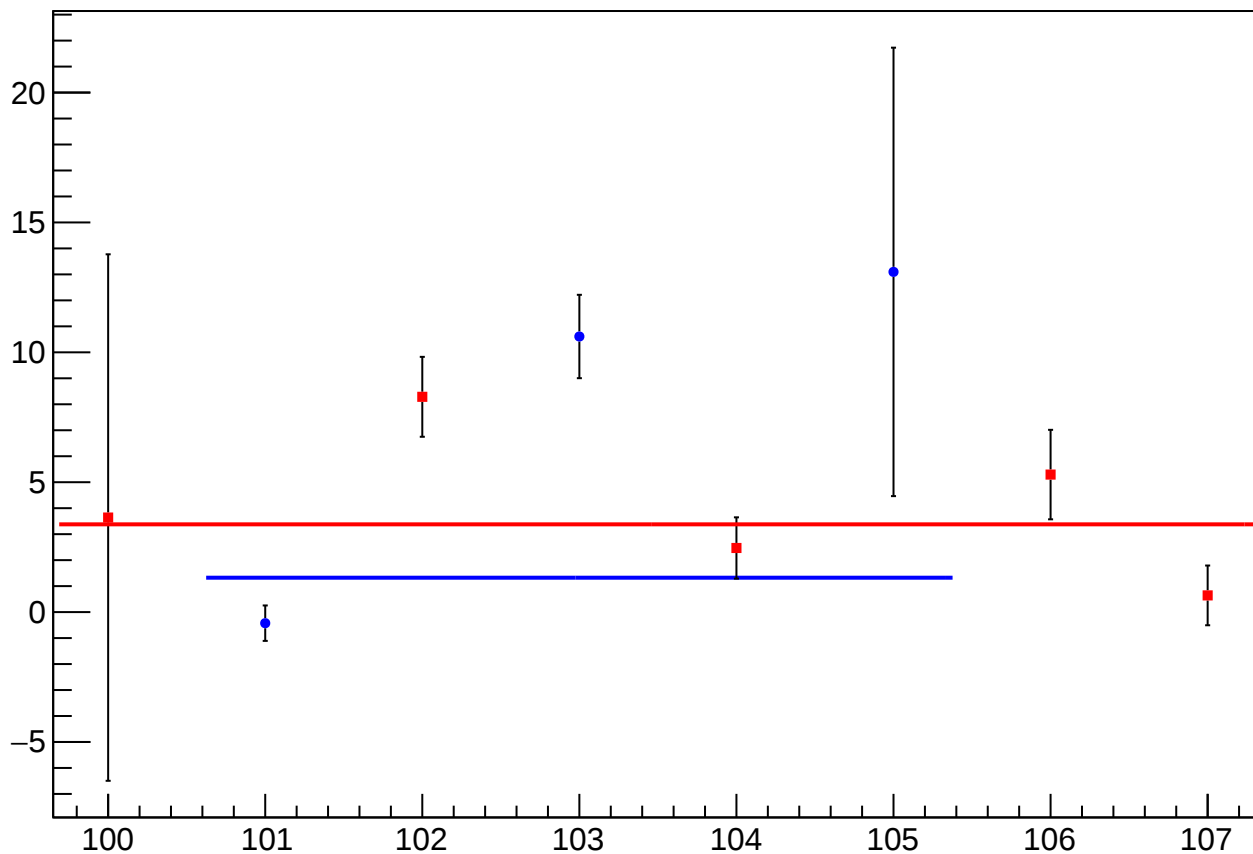
Right Out: -5.281+/-1.232  $\chi^2/\text{NDF}$ : 36.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7.586+/-1.176  $\chi^2/\text{NDF}$ : 22.0/2

-5.281+/-1.232  $\chi^2/\text{NDF}$ : 36.6/4

reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 1.324+/-0.626  $\chi^2/\text{NDF}$ : 41.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

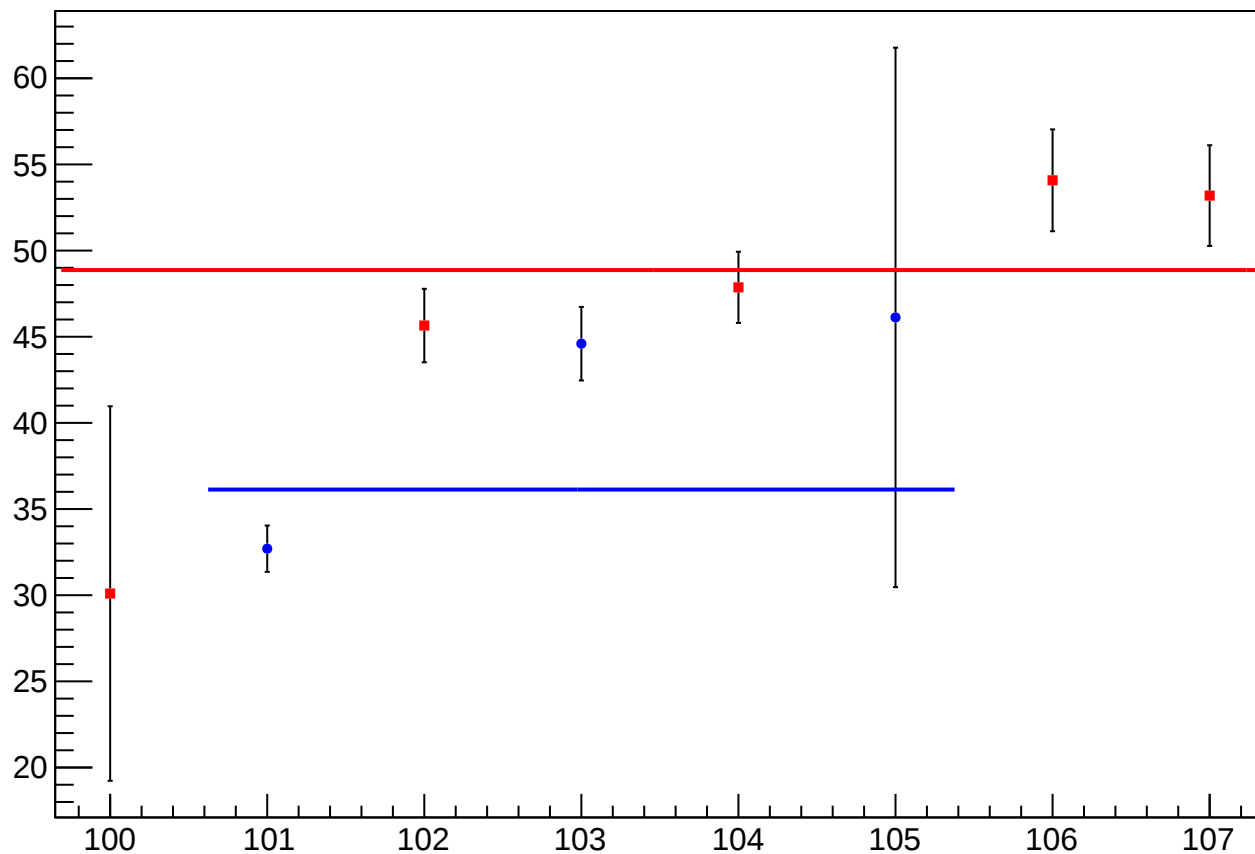
Right Out: 3.378+/-0.668  $\chi^2/\text{NDF}$ : 17.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.324+/-0.626  $\chi^2/\text{NDF}$ : 41.9/2

3.378+/-0.668  $\chi^2/\text{NDF}$ : 17.7/4

reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 36.132 $\pm$ 1.134  $\chi^2$ /NDF: 22.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

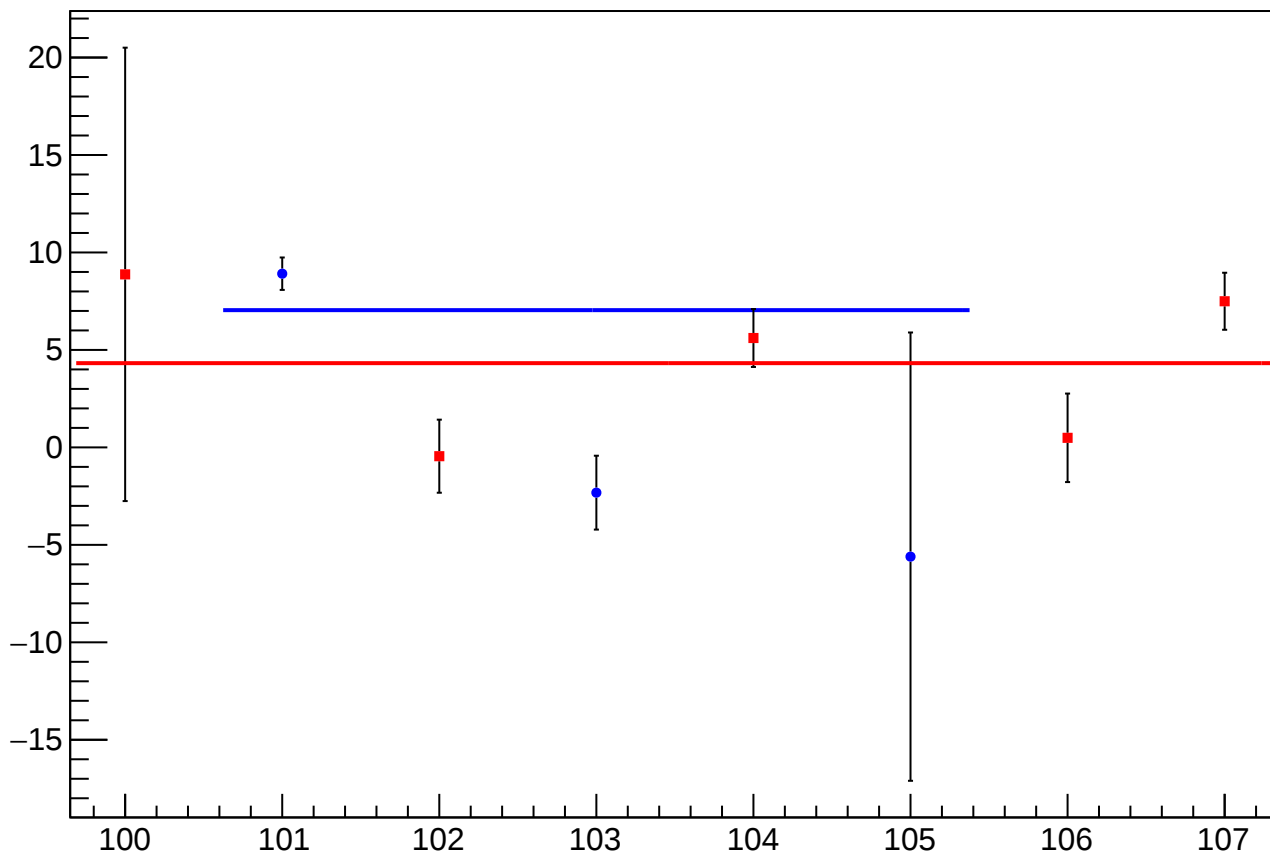
Right Out: 48.870 $\pm$ 1.200  $\chi^2$ /NDF: 10.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

36.132 $\pm$ 1.134  $\chi^2$ /NDF: 22.7/2

48.870 $\pm$ 1.200  $\chi^2$ /NDF: 10.8/4

reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 7.041 $\pm$ 0.760  $\chi^2$ /NDF: 30.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

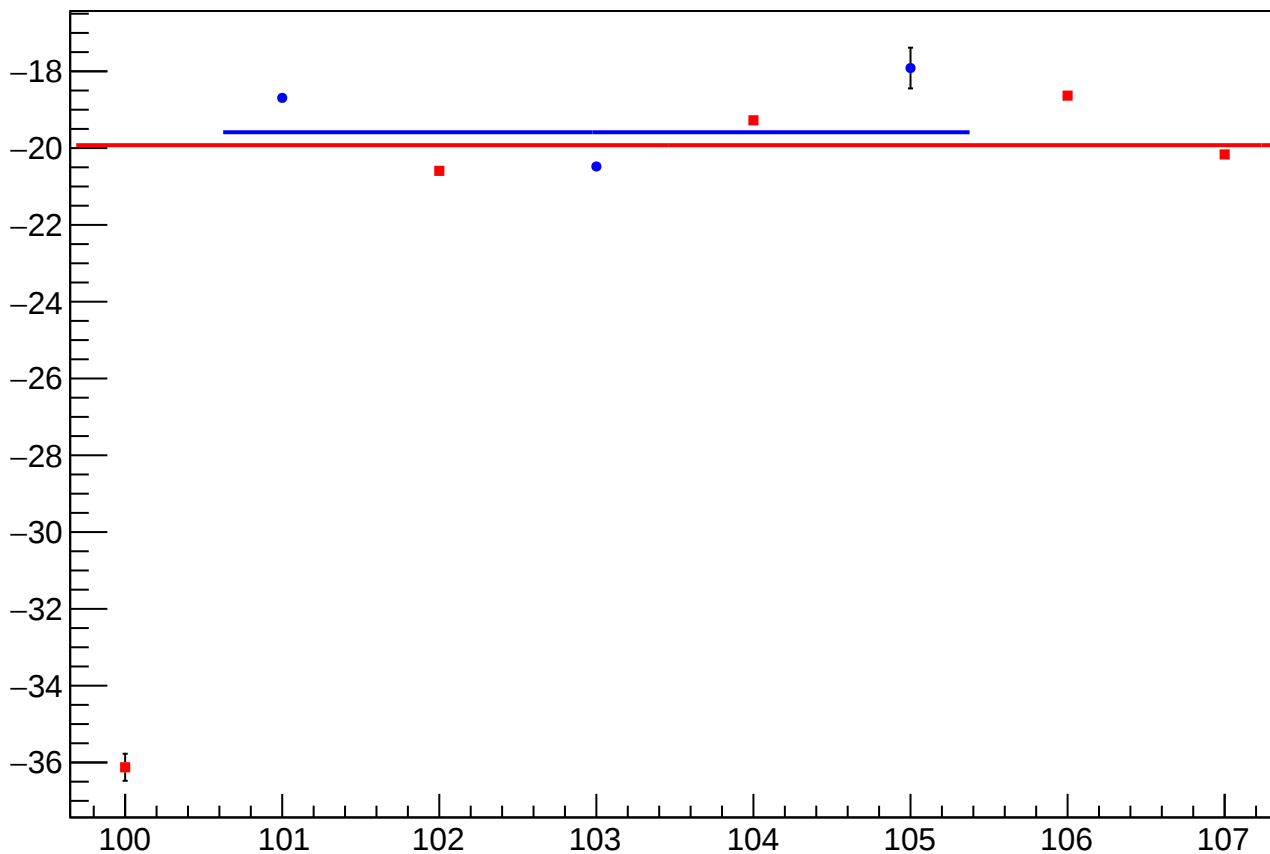
Right Out: 4.322 $\pm$ 0.843  $\chi^2$ /NDF: 15.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7.041 $\pm$ 0.760  $\chi^2$ /NDF: 30.7/2

4.322 $\pm$ 0.843  $\chi^2$ /NDF: 15.0/4

# reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs slug



Right In: -19.587 $\pm$ 0.034  $\chi^2$ /NDF: 700.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

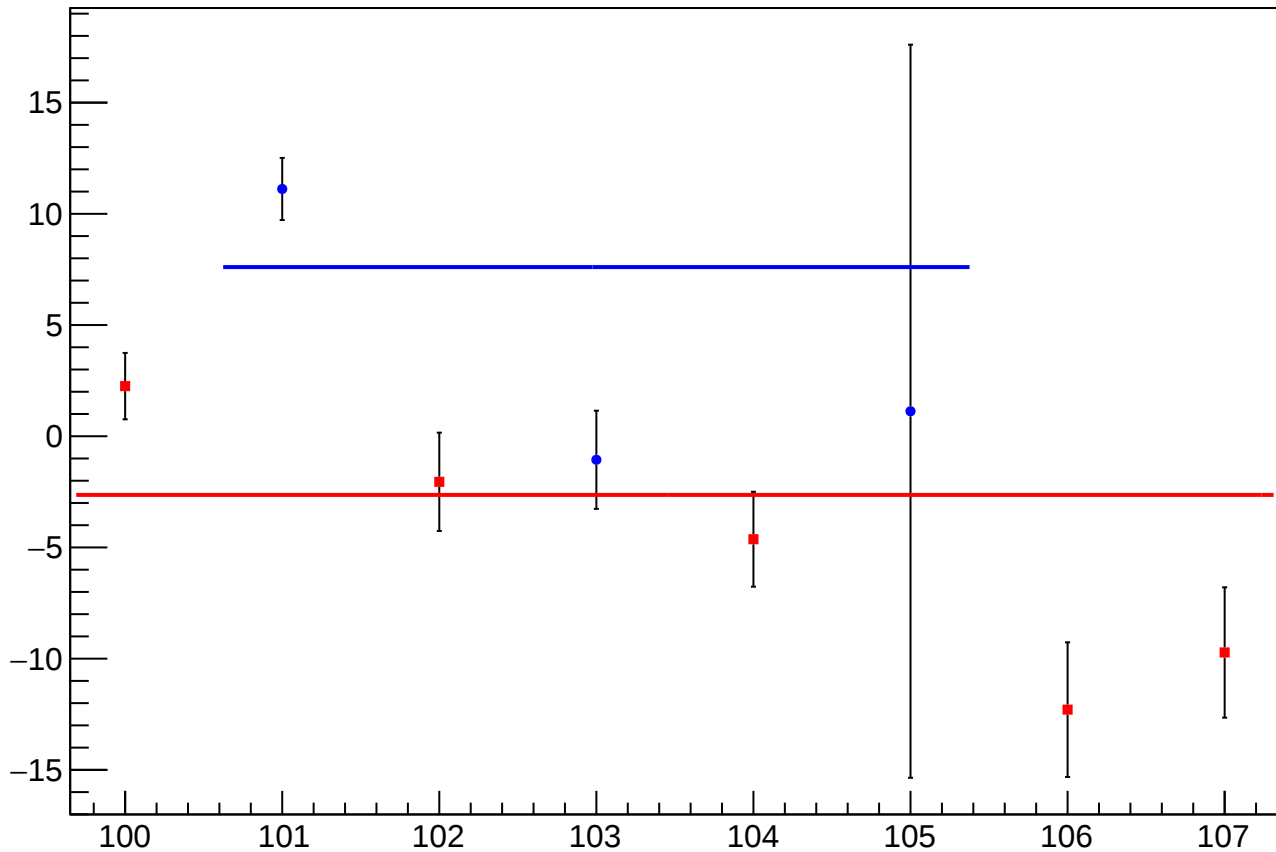
Right Out: -19.924 $\pm$ 0.029  $\chi^2$ /NDF: 2727.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-19.587 $\pm$ 0.034  $\chi^2$ /NDF: 700.2/2

-19.924 $\pm$ 0.029  $\chi^2$ /NDF: 2727.2/4

# reg\_asym\_right\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 7.606 $\pm$ 1.177  $\chi^2$ /NDF: 21.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

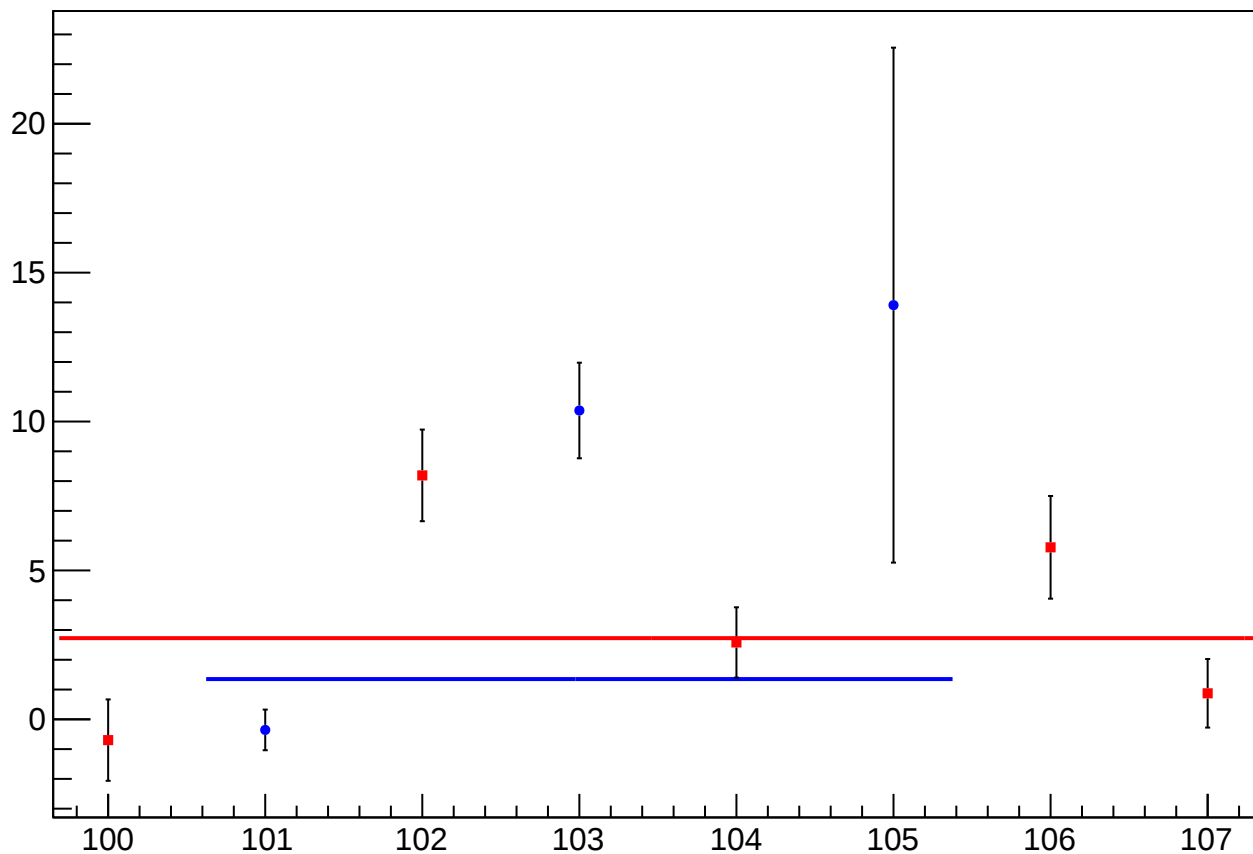
Right Out: -2.638 $\pm$ 0.954  $\chi^2$ /NDF: 27.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7.606 $\pm$ 1.177  $\chi^2$ /NDF: 21.9/2

-2.638 $\pm$ 0.954  $\chi^2$ /NDF: 27.7/4

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 1.352+/-0.626  $\chi^2/\text{NDF}$ : 39.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

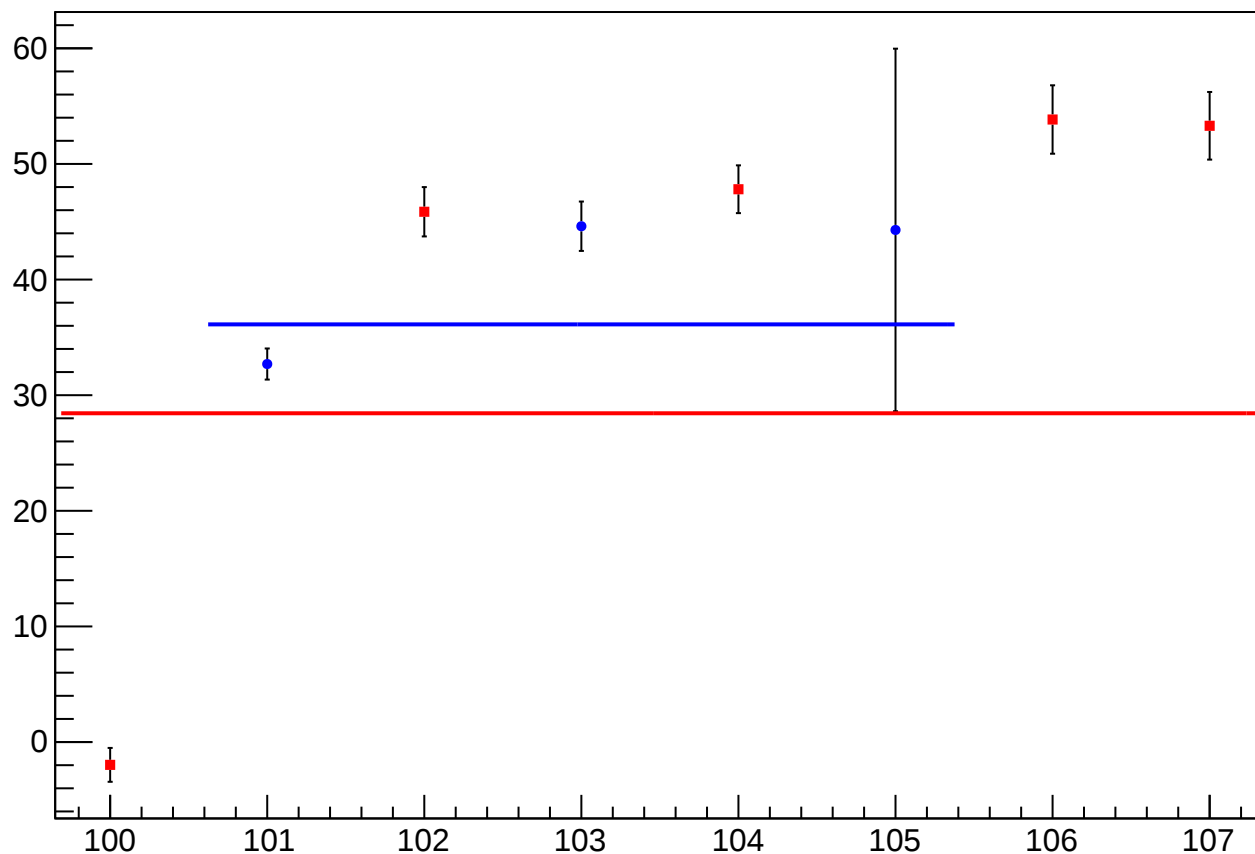
Right Out: 2.726+/-0.601  $\chi^2/\text{NDF}$ : 24.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.352+/-0.626  $\chi^2/\text{NDF}$ : 39.9/2

2.726+/-0.601  $\chi^2/\text{NDF}$ : 24.6/4

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 36.124+/-1.135  $\chi^2$ /NDF: 22.6/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

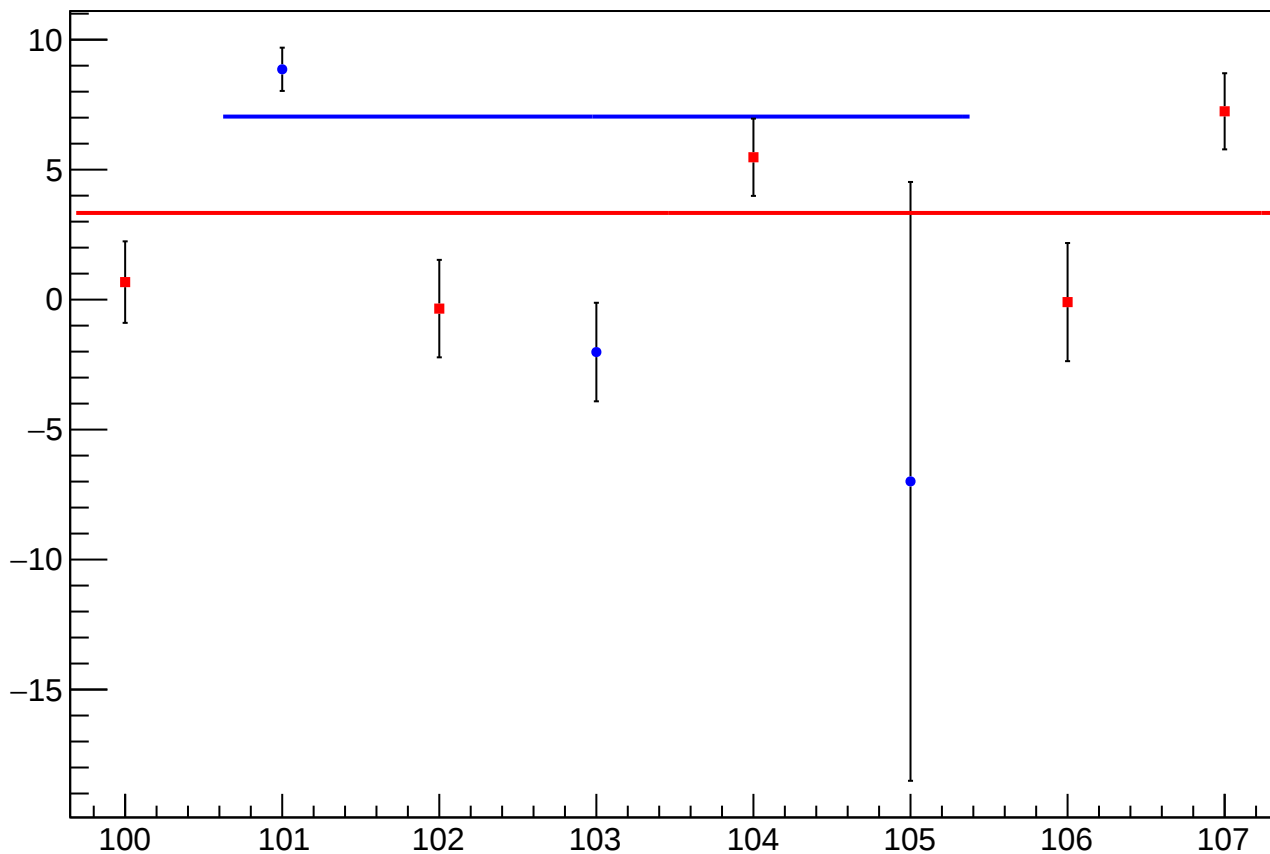
Right Out: 28.436+/-0.932  $\chi^2$ /NDF: 731.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

36.124+/-1.135  $\chi^2$ /NDF: 22.6/2

28.436+/-0.932  $\chi^2$ /NDF: 731.7/4

# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 7.042 $\pm$ 0.760  $\chi^2$ /NDF: 29.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

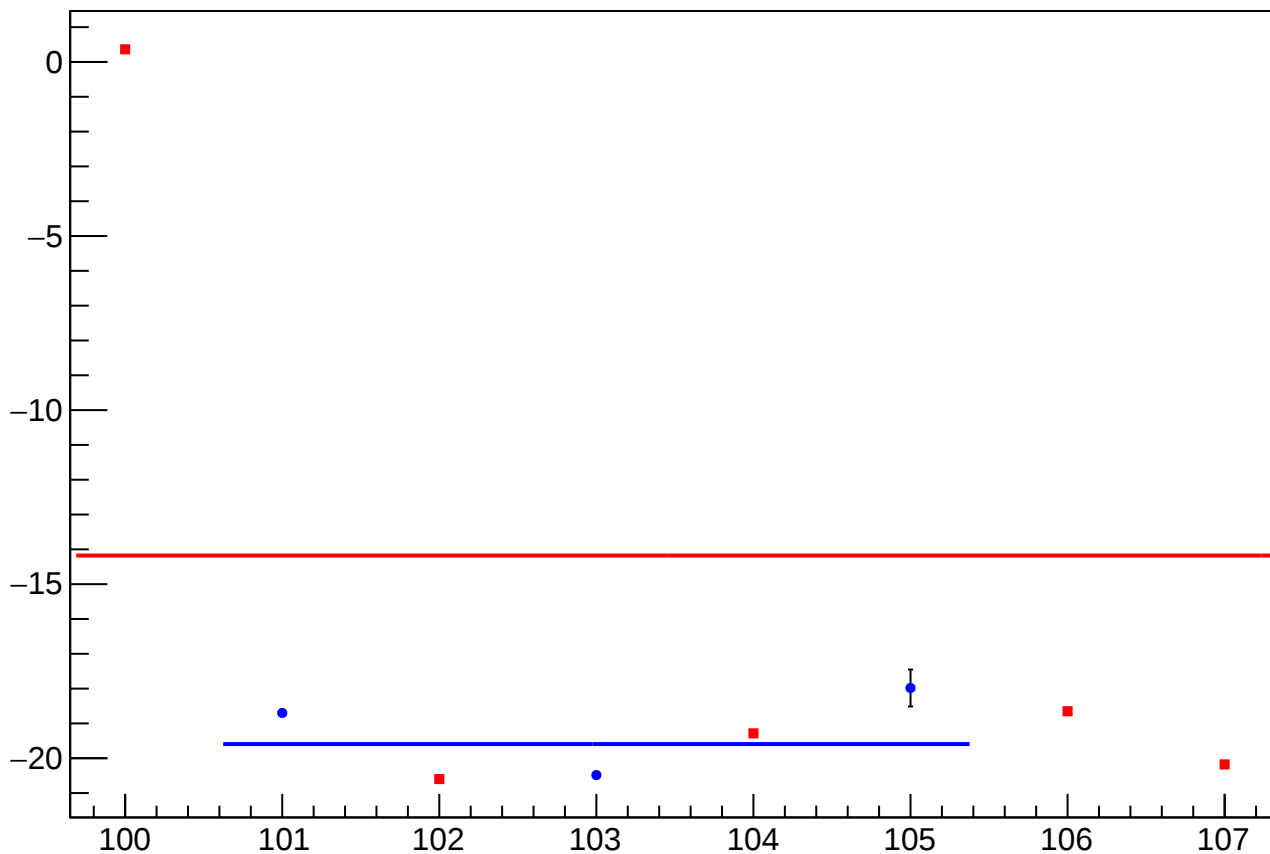
Right Out: 3.334 $\pm$ 0.745  $\chi^2$ /NDF: 18.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7.042 $\pm$ 0.760  $\chi^2$ /NDF: 29.1/2

3.334 $\pm$ 0.745  $\chi^2$ /NDF: 18.2/4

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs slug



Right In: -19.594 $\pm$ 0.034  $\chi^2$ /NDF: 696.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

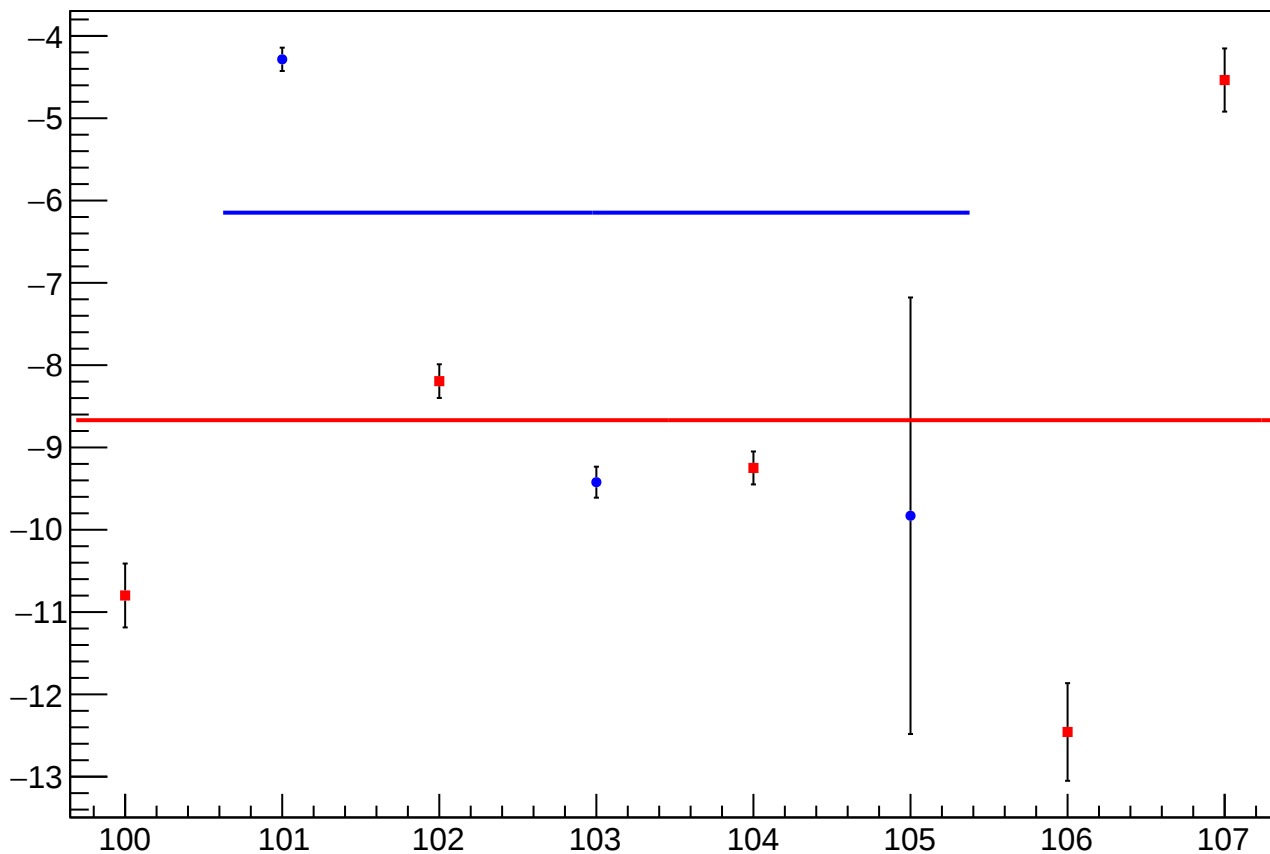
-19.594 $\pm$ 0.034  $\chi^2$ /NDF: 696.6/2

Right Out: -14.178 $\pm$ 0.025  $\chi^2$ /NDF: 130606.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-14.178 $\pm$ 0.025  $\chi^2$ /NDF: 130606.4/4

reg\_asym\_sam\_15\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -6.147 $\pm$ 0.113  $\chi^2$ /NDF: 477.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

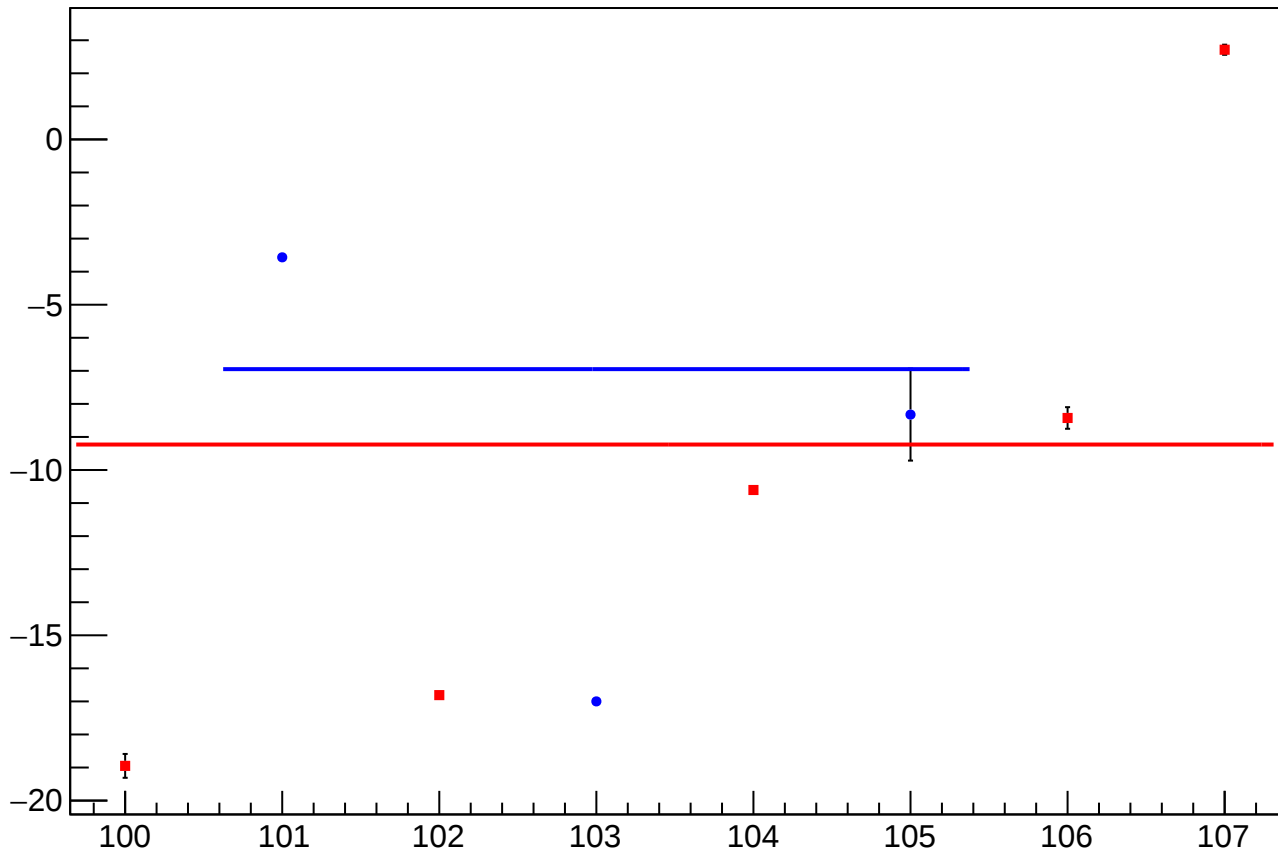
Right Out: -8.669 $\pm$ 0.124  $\chi^2$ /NDF: 200.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-6.147 $\pm$ 0.113  $\chi^2$ /NDF: 477.4/2

-8.669 $\pm$ 0.124  $\chi^2$ /NDF: 200.7/4

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs slug



Right In: -6.949+/-0.068  $\chi^2/\text{NDF}$ : 7414.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

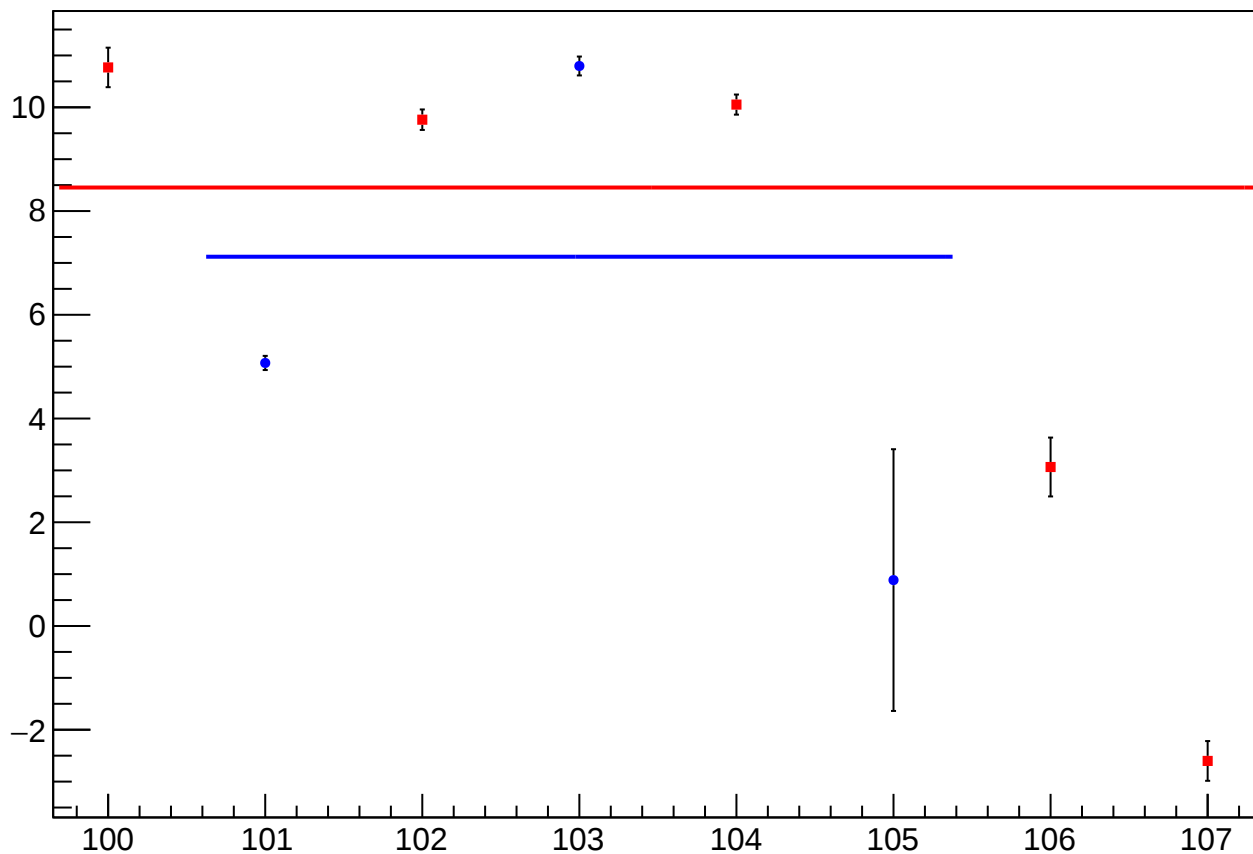
Right Out: -9.229+/-0.076  $\chi^2/\text{NDF}$ : 9575.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.949+/-0.068  $\chi^2/\text{NDF}$ : 7414.5/2

-9.229+/-0.076  $\chi^2/\text{NDF}$ : 9575.9/4

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 7.120 $\pm$ 0.109  $\chi^2$ /NDF: 638.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

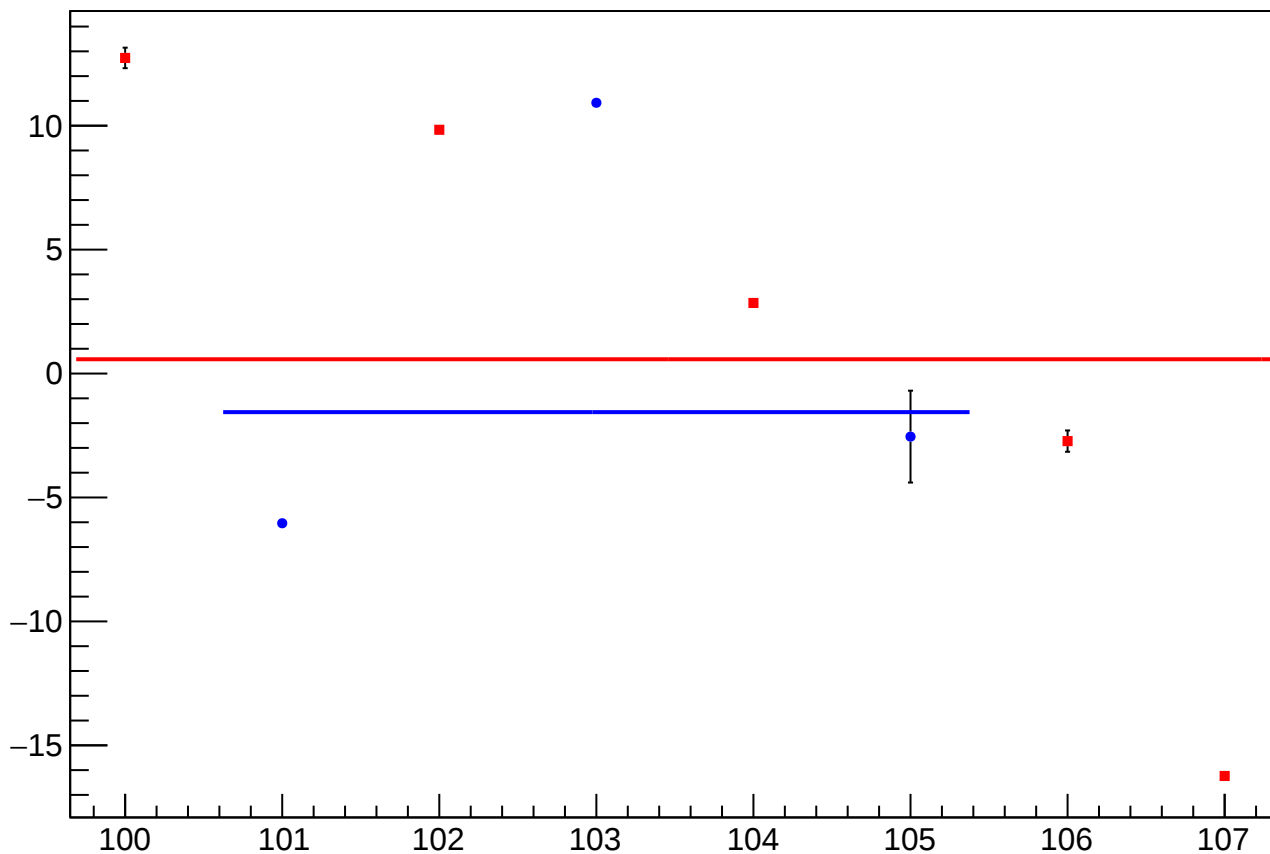
Right Out: 8.454 $\pm$ 0.120  $\chi^2$ /NDF: 1071.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7.120 $\pm$ 0.109  $\chi^2$ /NDF: 638.9/2

8.454 $\pm$ 0.120  $\chi^2$ /NDF: 1071.9/4

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs slug



Right In: -1.557+/-0.082  $\chi^2/\text{NDF}$ : 8353.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

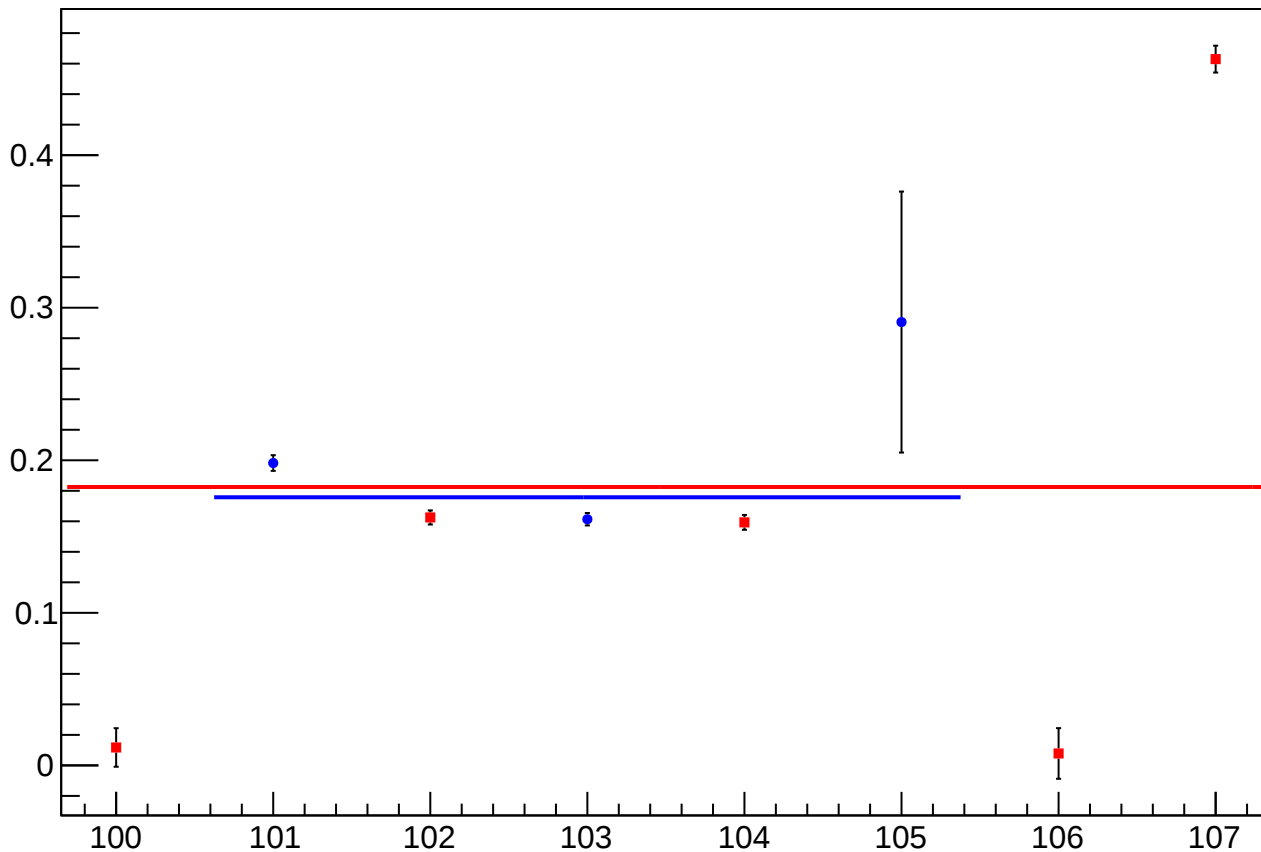
Right Out: 0.577+/-0.094  $\chi^2/\text{NDF}$ : 11287.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.557+/-0.082  $\chi^2/\text{NDF}$ : 8353.7/2

0.577+/-0.094  $\chi^2/\text{NDF}$ : 11287.5/4

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs slug



Right In: 0.176+/-0.003  $\chi^2/\text{NDF}$ : 33.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

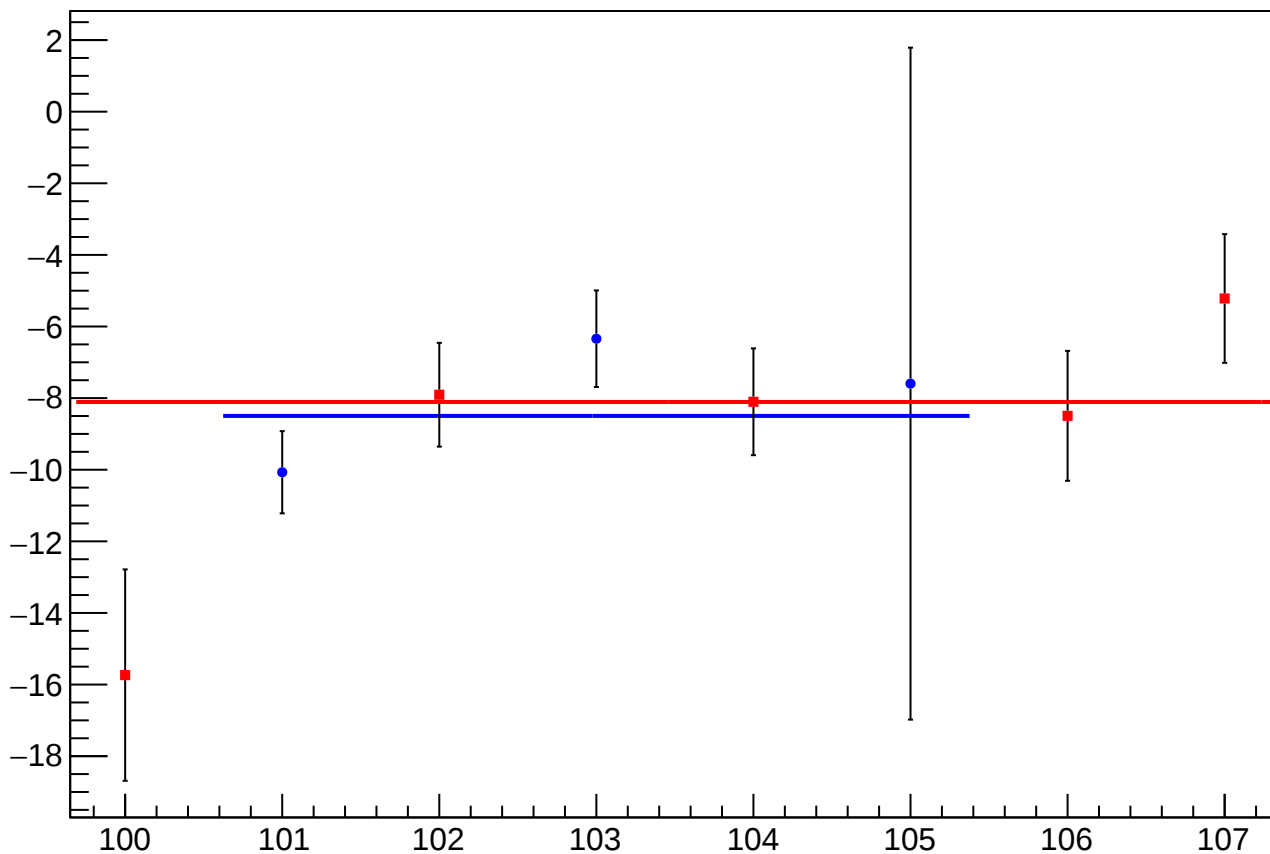
Right Out: 0.182+/-0.003  $\chi^2/\text{NDF}$ : 1349.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.176+/-0.003  $\chi^2/\text{NDF}$ : 33.2/2

0.182+/-0.003  $\chi^2/\text{NDF}$ : 1349.5/4

reg\_asym\_sam\_15\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -8.497+/-0.870  $\chi^2$ /NDF: 4.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

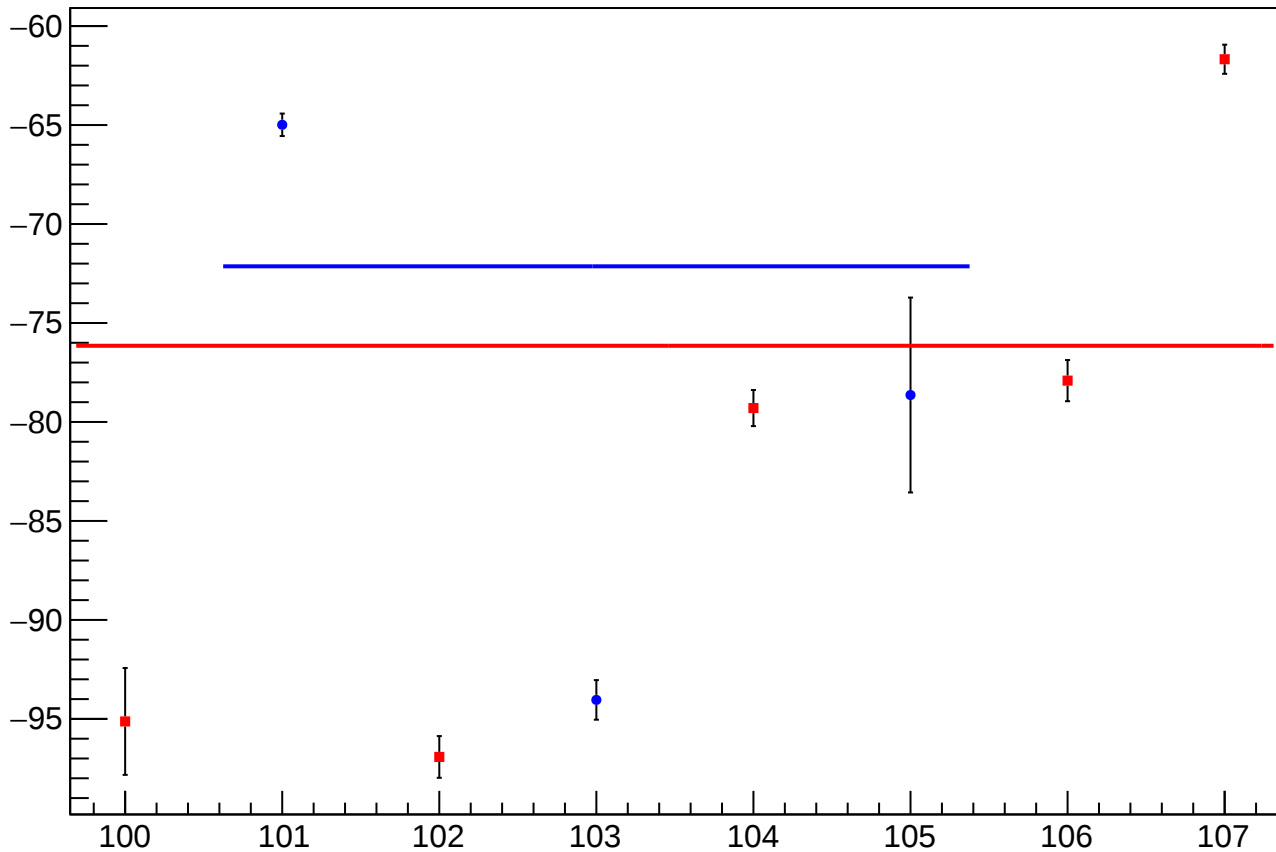
Right Out: -8.108+/-0.777  $\chi^2$ /NDF: 9.3/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-8.497+/-0.870  $\chi^2$ /NDF: 4.4/2

-8.108+/-0.777  $\chi^2$ /NDF: 9.3/4

reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -72.137+/-0.491  $\chi^2/\text{NDF}$ : 640.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

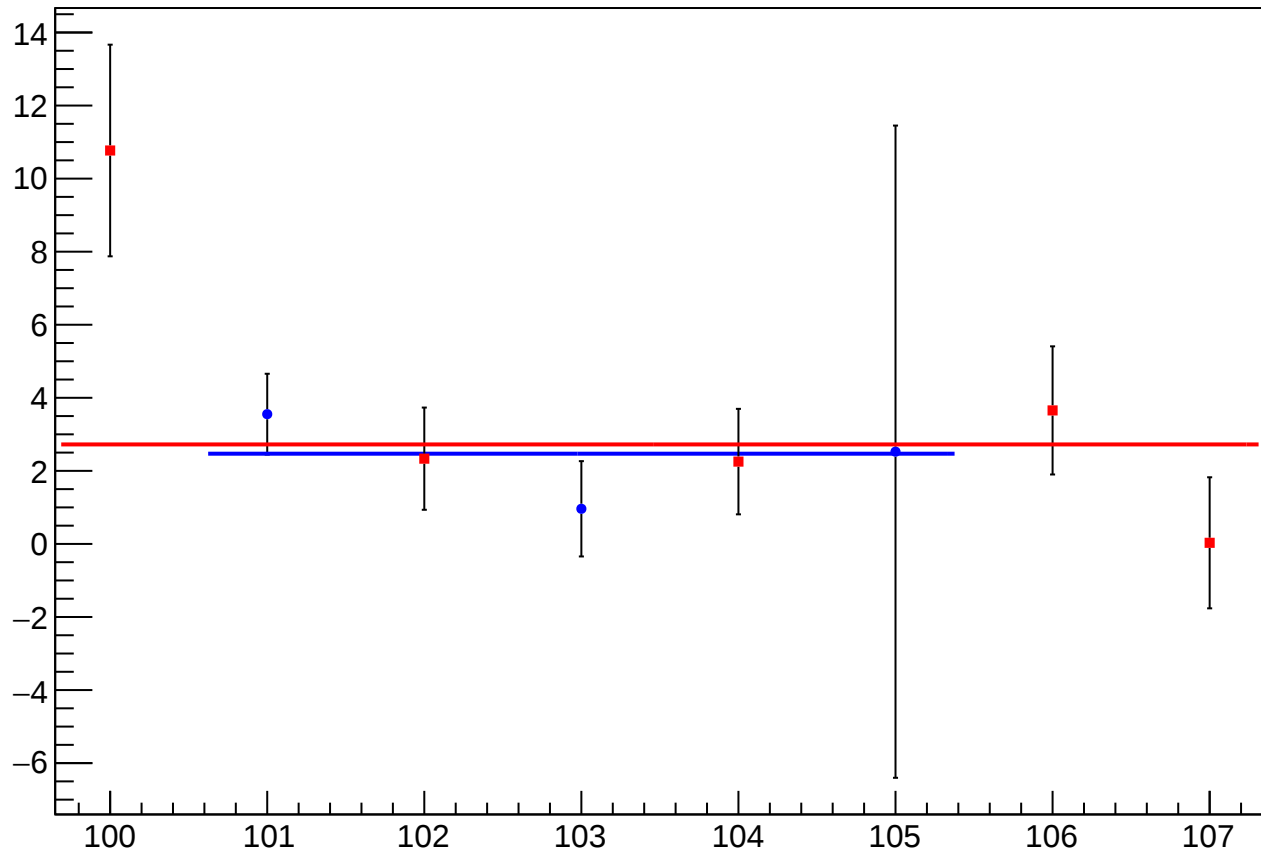
Right Out: -76.150+/-0.447  $\chi^2/\text{NDF}$ : 839.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-72.137+/-0.491  $\chi^2/\text{NDF}$ : 640.1/2

-76.150+/-0.447  $\chi^2/\text{NDF}$ : 839.6/4

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 2.470 $\pm$ 0.840  $\chi^2$ /NDF: 2.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

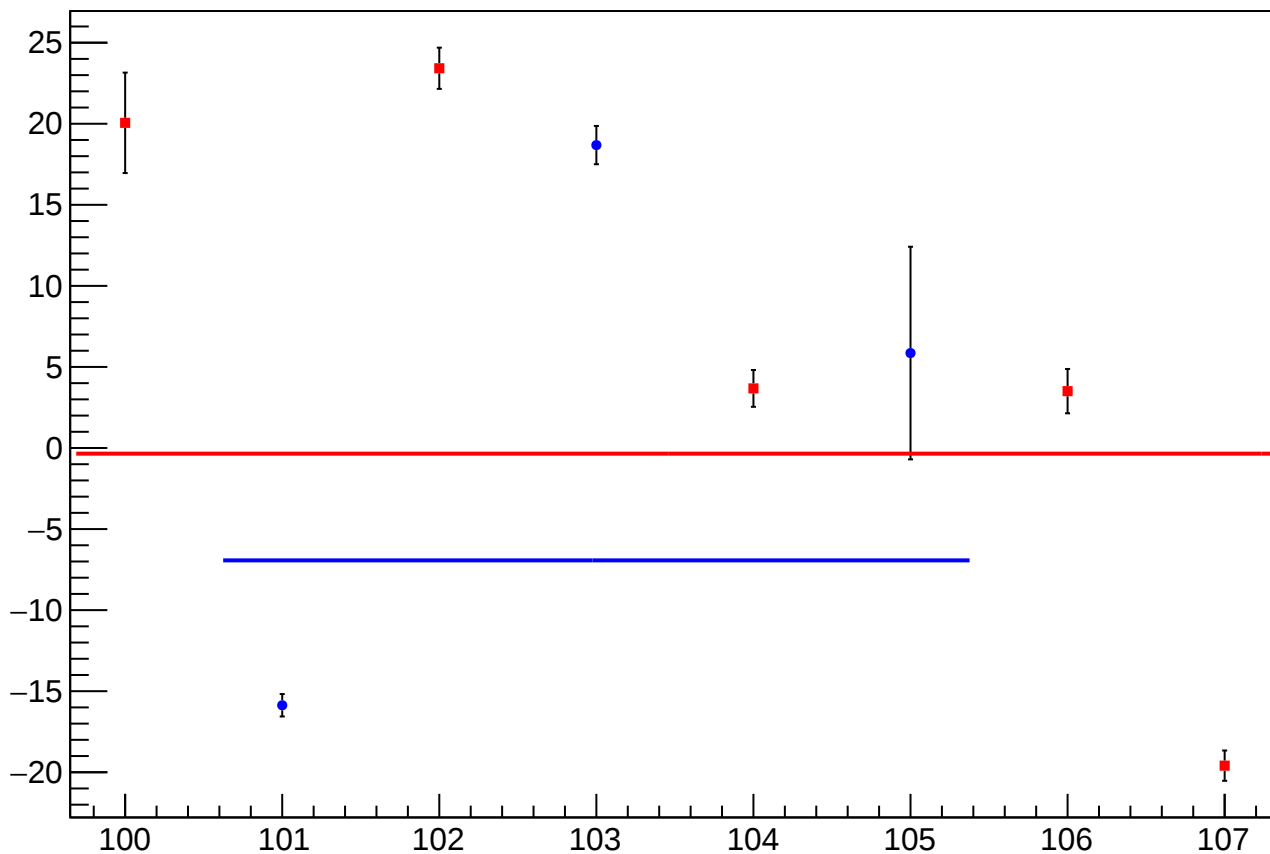
Right Out: 2.724 $\pm$ 0.757  $\chi^2$ /NDF: 10.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2.470 $\pm$ 0.840  $\chi^2$ /NDF: 2.3/2

2.724 $\pm$ 0.757  $\chi^2$ /NDF: 10.4/4

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -6.931+/-0.594  $\chi^2$ /NDF: 641.2/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

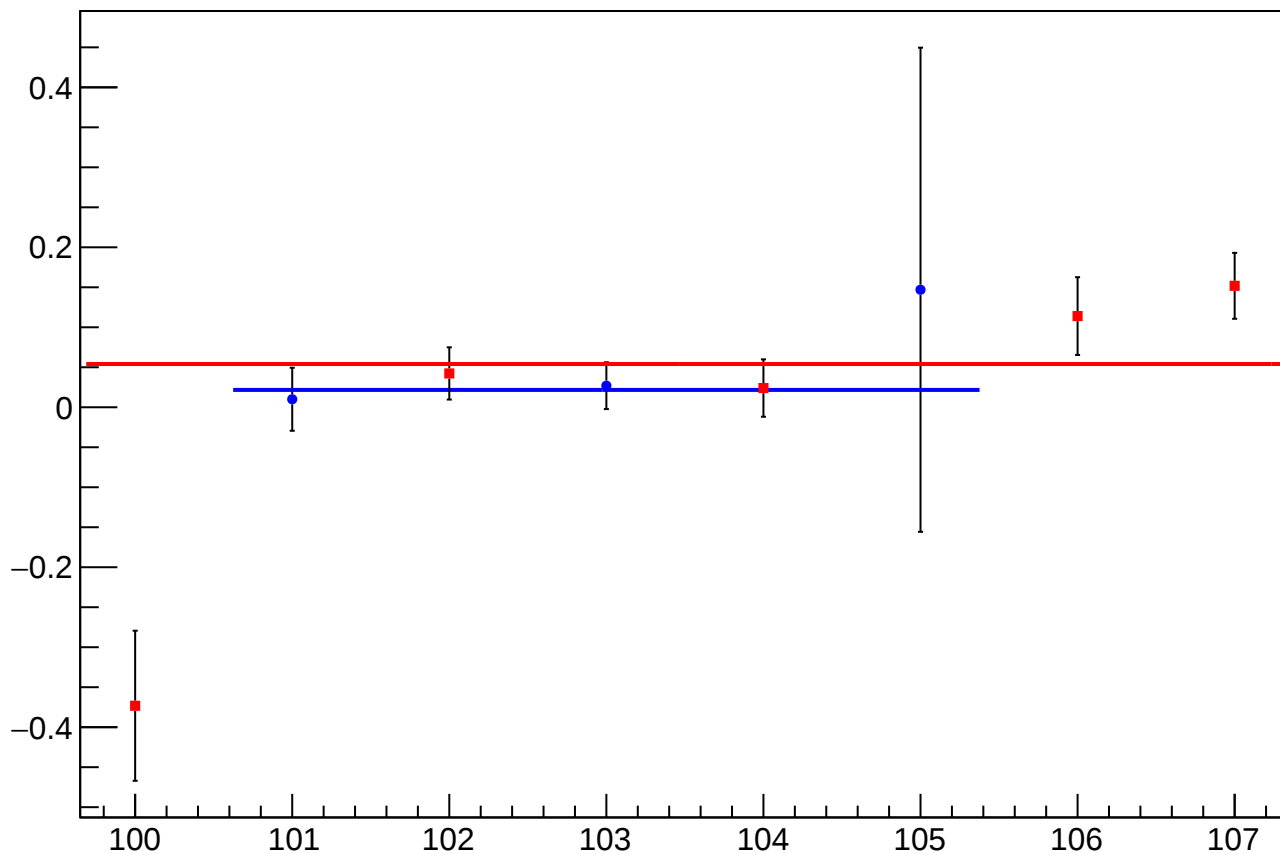
Right Out: -0.348+/-0.561  $\chi^2$ /NDF: 837.9/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

-6.931+/-0.594  $\chi^2$ /NDF: 641.2/2

-0.348+/-0.561  $\chi^2$ /NDF: 837.9/4

reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs slug



Right In: 0.022 $\pm$ 0.023  $\chi^2$ /NDF: 0.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

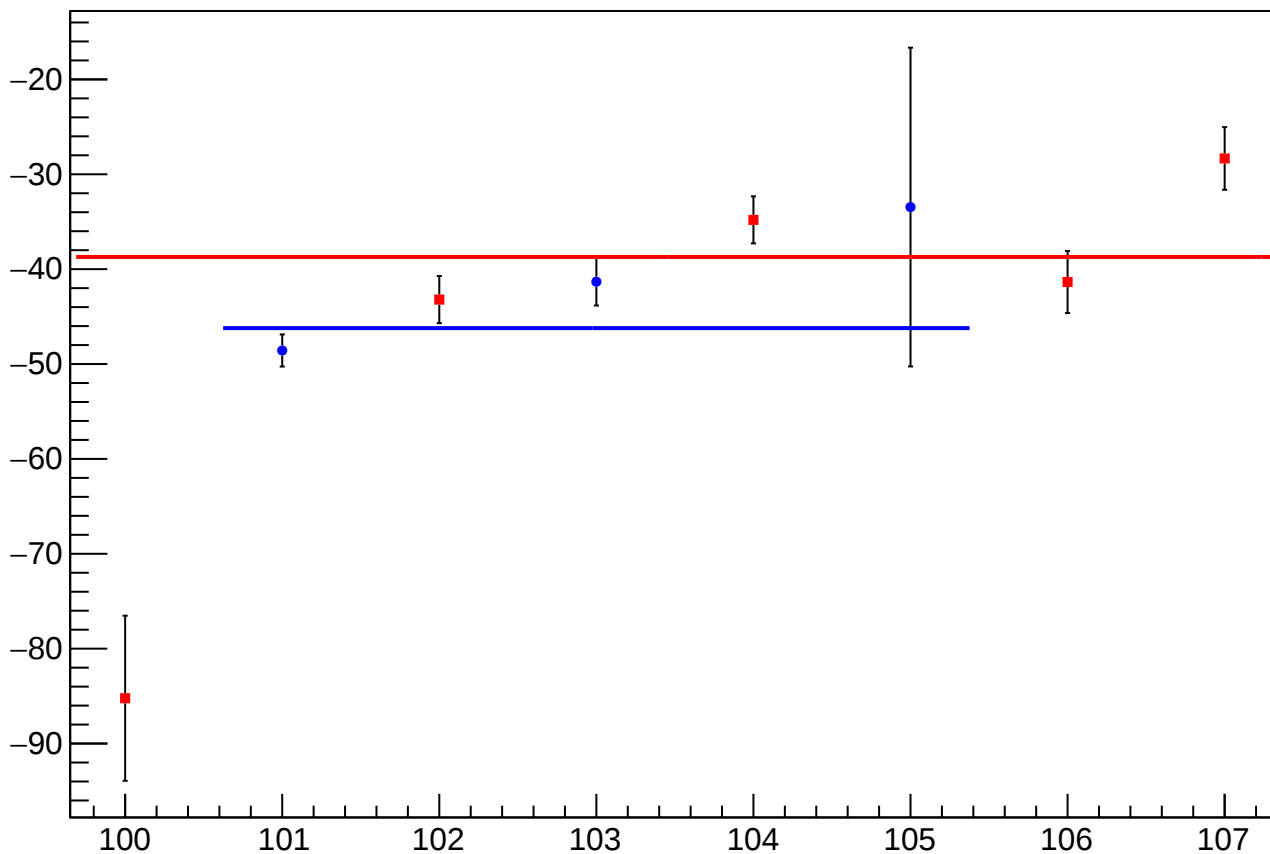
Right Out: 0.054 $\pm$ 0.019  $\chi^2$ /NDF: 28.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.022 $\pm$ 0.023  $\chi^2$ /NDF: 0.3/2

0.054 $\pm$ 0.019  $\chi^2$ /NDF: 28.7/4

reg\_asym\_sam\_37\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -46.214 $\pm$ 1.398  $\chi^2$ /NDF: 6.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

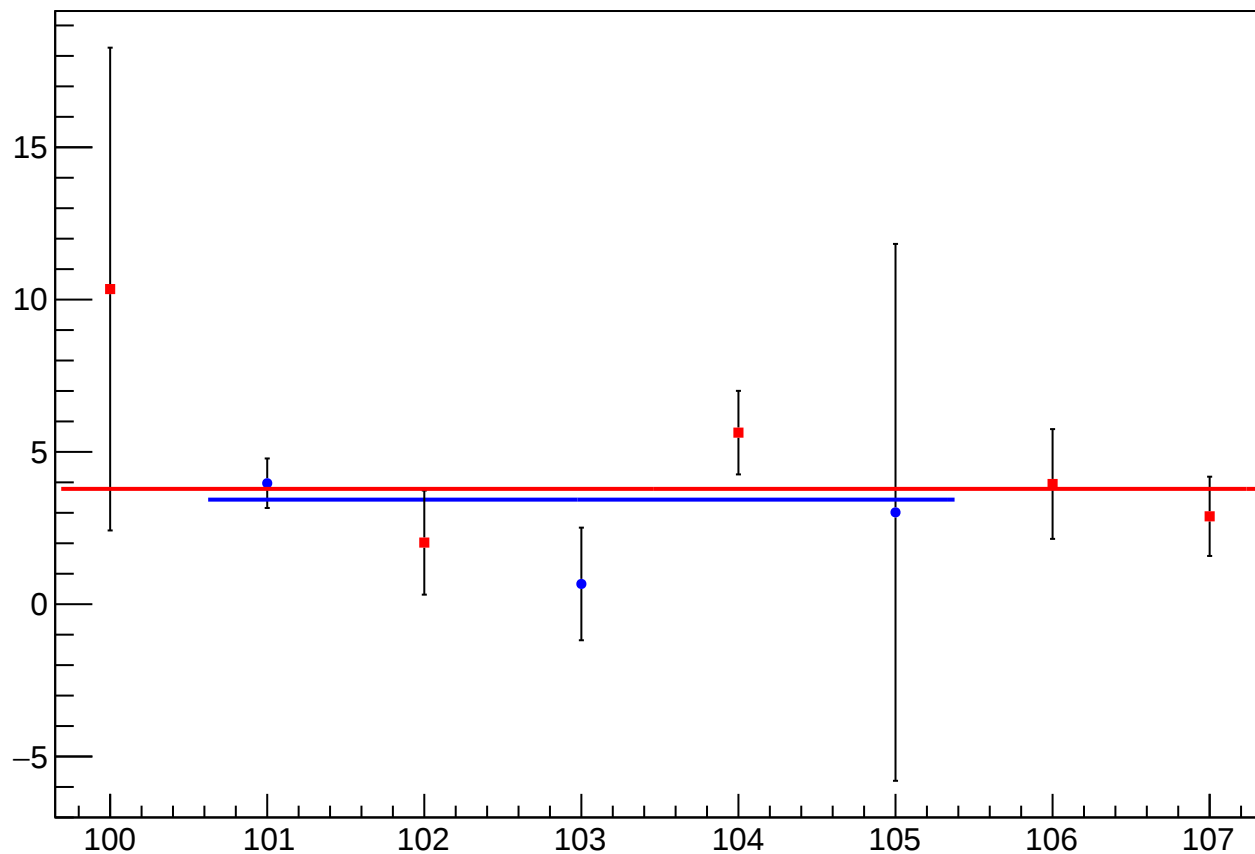
-46.214 $\pm$ 1.398  $\chi^2$ /NDF: 6.3/2

Right Out: -38.712 $\pm$ 1.383  $\chi^2$ /NDF: 44.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-38.712 $\pm$ 1.383  $\chi^2$ /NDF: 44.9/4

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 3.433+/-0.742  $\chi^2/\text{NDF}$ : 2.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

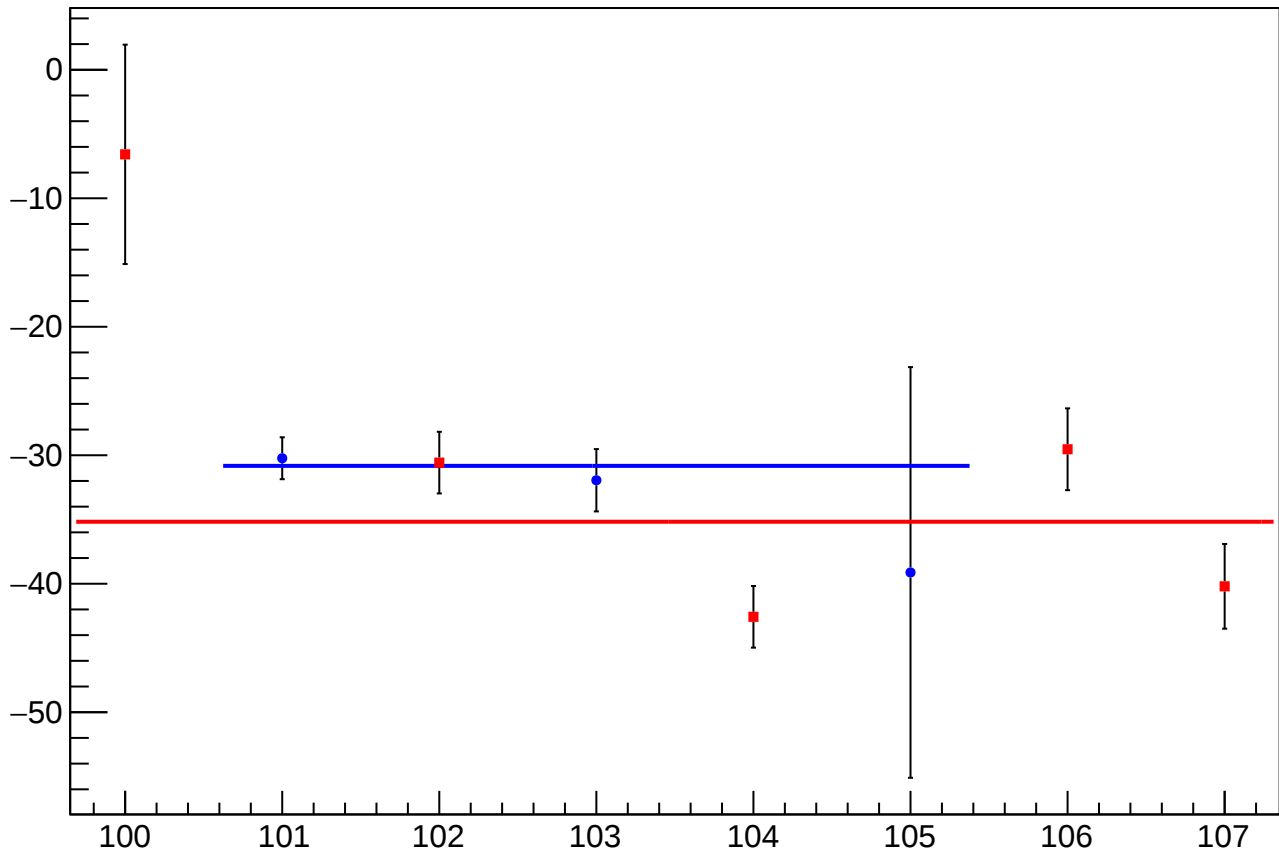
Right Out: 3.786+/-0.748  $\chi^2/\text{NDF}$ : 4.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.433+/-0.742  $\chi^2/\text{NDF}$ : 2.7/2

3.786+/-0.748  $\chi^2/\text{NDF}$ : 4.0/4

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs slug



Right In: -30.826 $\pm$ 1.349  $\chi^2$ /NDF: 0.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

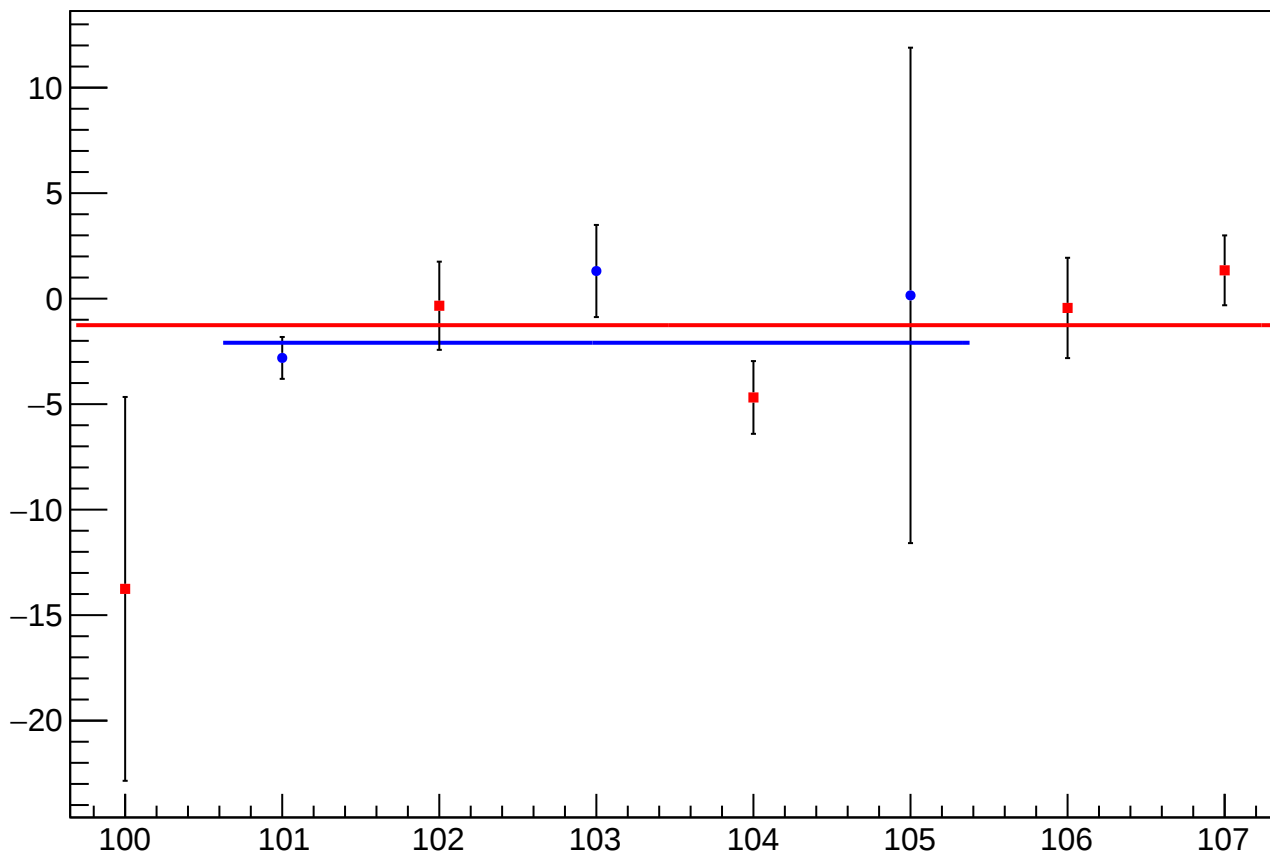
Right Out: -35.175 $\pm$ 1.346  $\chi^2$ /NDF: 29.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-30.826 $\pm$ 1.349  $\chi^2$ /NDF: 0.6/2

-35.175 $\pm$ 1.346  $\chi^2$ /NDF: 29.9/4

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs slug



Right In: -2.091+/-0.901  $\chi^2/\text{NDF}$ : 3.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

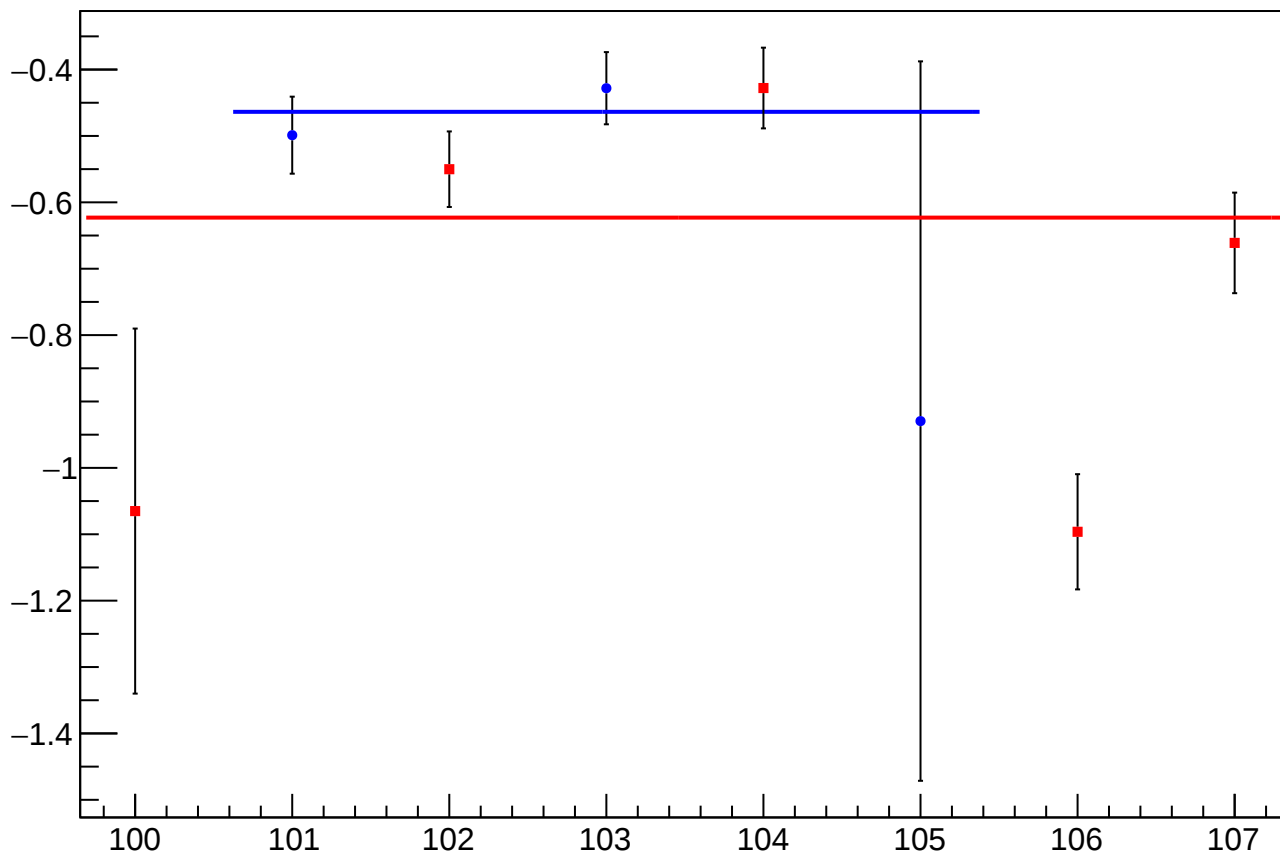
Right Out: -1.257+/-0.945  $\chi^2/\text{NDF}$ : 8.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.091+/-0.901  $\chi^2/\text{NDF}$ : 3.0/2

-1.257+/-0.945  $\chi^2/\text{NDF}$ : 8.6/4

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs slug



Right In: -0.464 $\pm$ 0.040  $\chi^2$ /NDF: 1.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

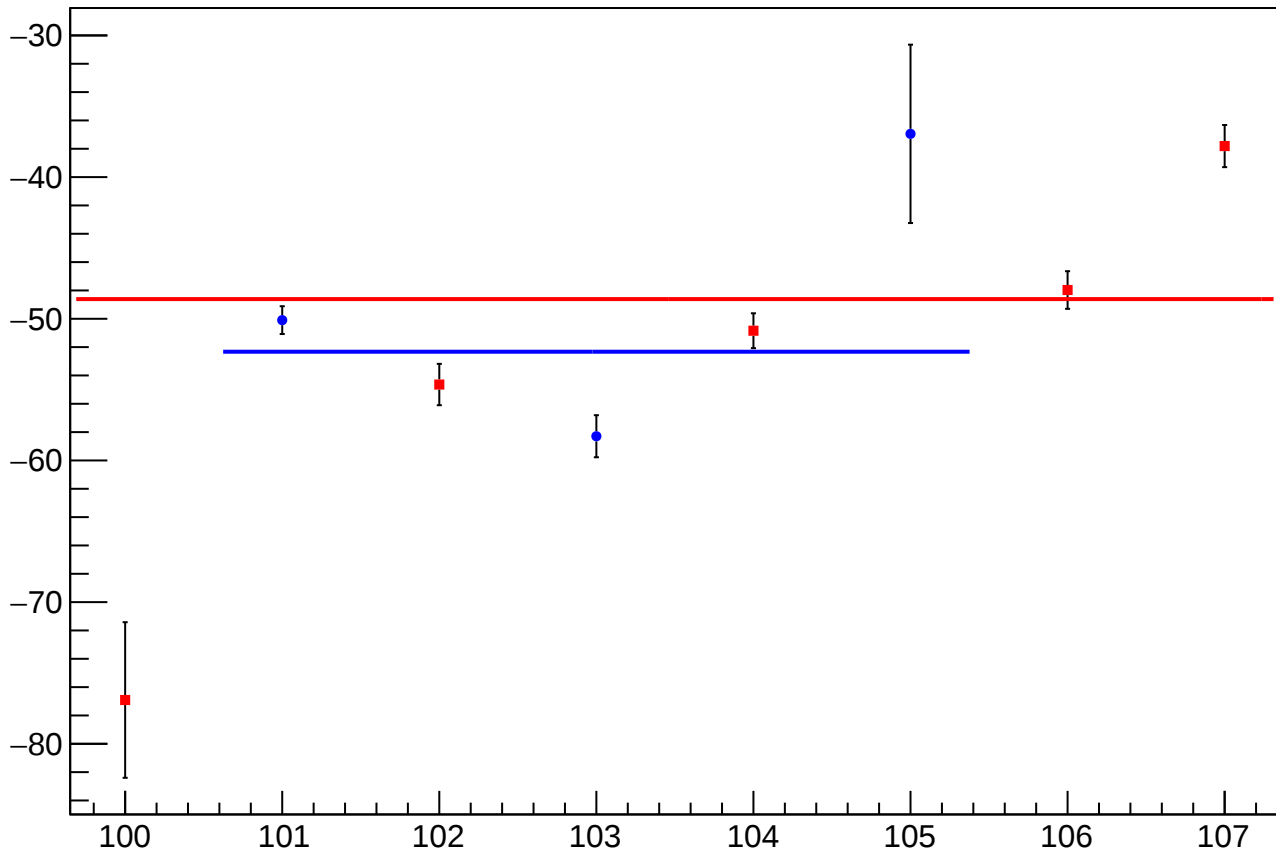
Right Out: -0.623 $\pm$ 0.033  $\chi^2$ /NDF: 44.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.464 $\pm$ 0.040  $\chi^2$ /NDF: 1.5/2

-0.623 $\pm$ 0.033  $\chi^2$ /NDF: 44.5/4

reg\_asym\_sam\_37\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -52.325+/-0.812  $\chi^2/\text{NDF}$ : 27.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

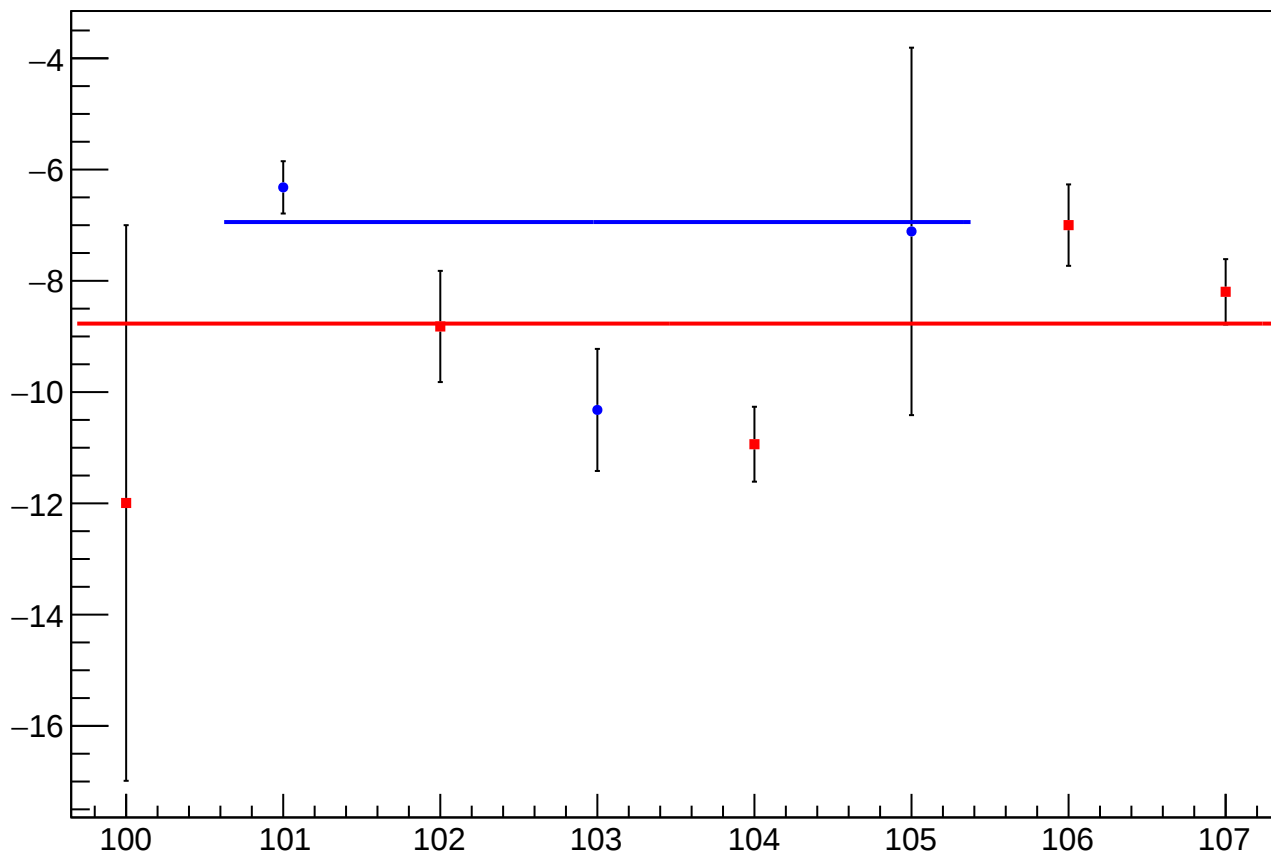
Right Out: -48.610+/-0.677  $\chi^2/\text{NDF}$ : 99.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-52.325+/-0.812  $\chi^2/\text{NDF}$ : 27.3/2

-48.610+/-0.677  $\chi^2/\text{NDF}$ : 99.9/4

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs slug



Right In:  $-6.943 \pm 0.428$   $\chi^2/\text{NDF}$ : 11.2/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

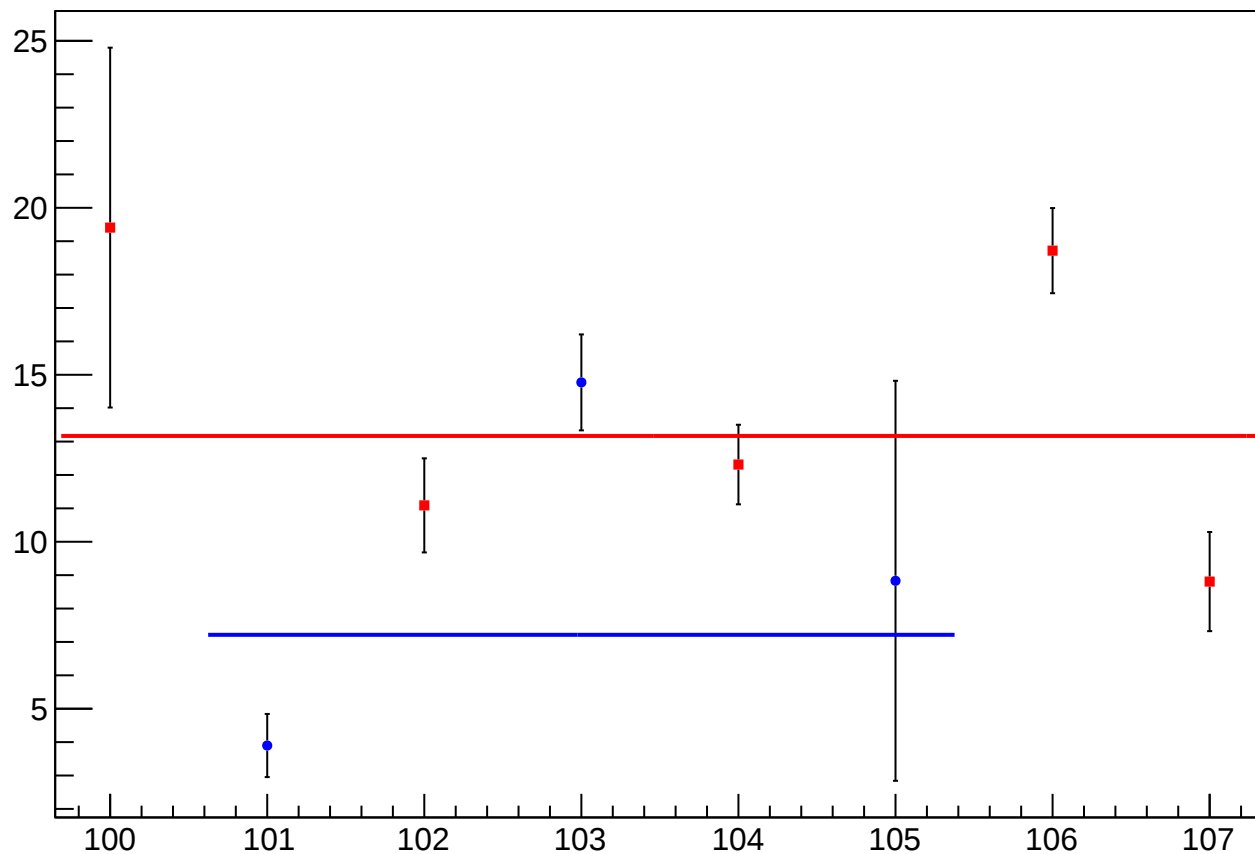
Right Out:  $-8.769 \pm 0.353$   $\chi^2/\text{NDF}$ : 17.6/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-6.943 \pm 0.428$   $\chi^2/\text{NDF}$ : 11.2/2

$-8.769 \pm 0.353$   $\chi^2/\text{NDF}$ : 17.6/4

reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 7.213 $\pm$ 0.783  $\chi^2$ /NDF: 40.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

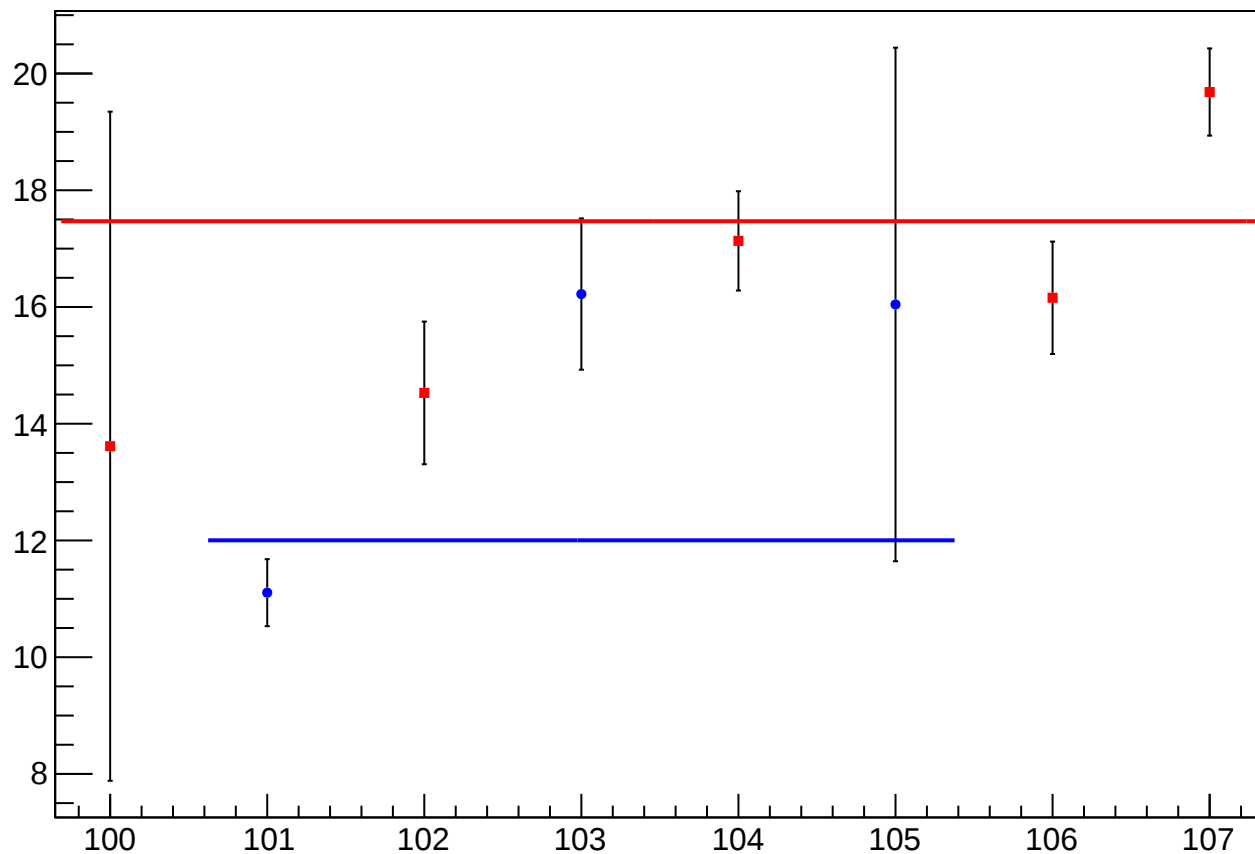
Right Out: 13.169 $\pm$ 0.658  $\chi^2$ /NDF: 31.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7.213 $\pm$ 0.783  $\chi^2$ /NDF: 40.1/2

13.169 $\pm$ 0.658  $\chi^2$ /NDF: 31.6/4

reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs slug



Right In:  $12.002 \pm 0.521$   $\chi^2/\text{NDF}: 13.9/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

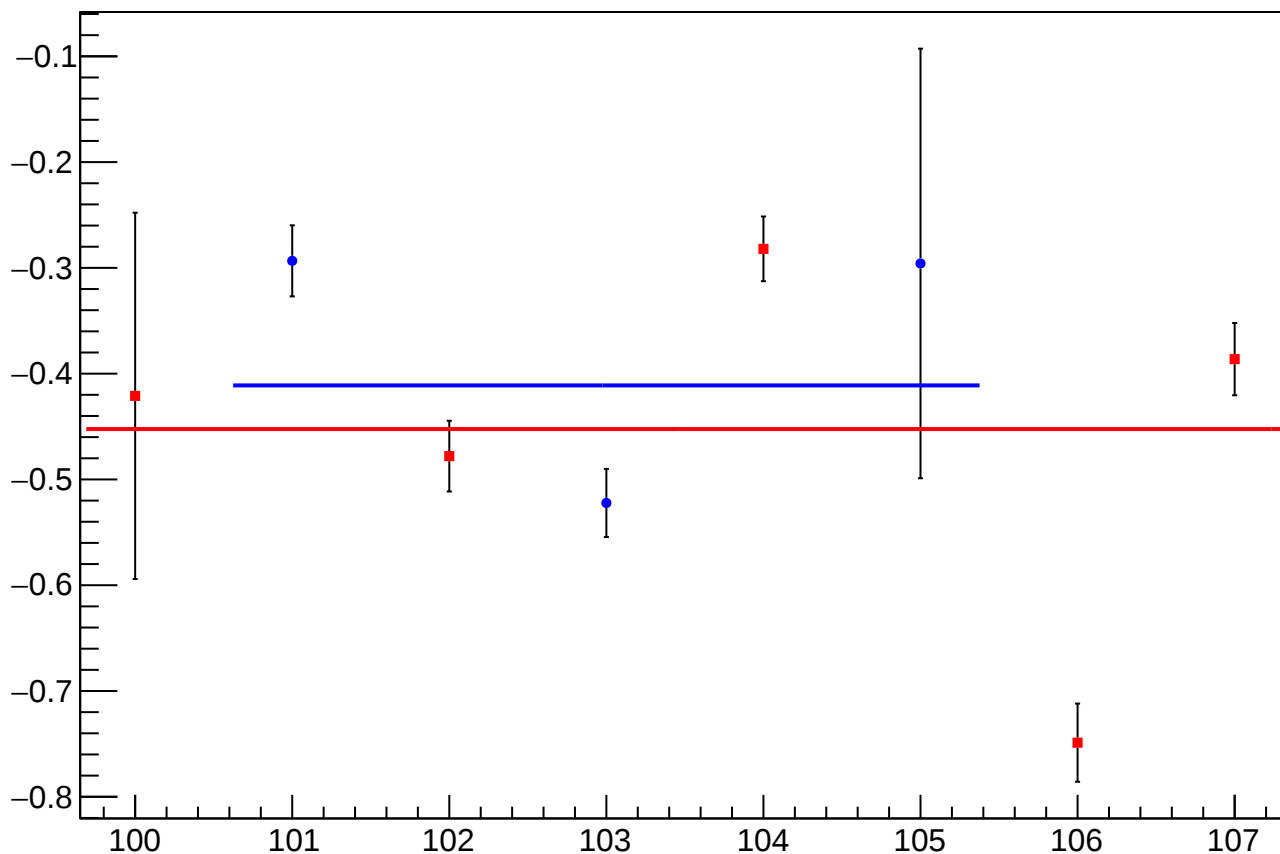
Right Out:  $17.470 \pm 0.449$   $\chi^2/\text{NDF}: 17.0/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$12.002 \pm 0.521$   $\chi^2/\text{NDF}: 13.9/2$

$17.470 \pm 0.449$   $\chi^2/\text{NDF}: 17.0/4$

reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs slug



Right In: -0.411+/-0.023  $\chi^2/\text{NDF}$ : 24.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

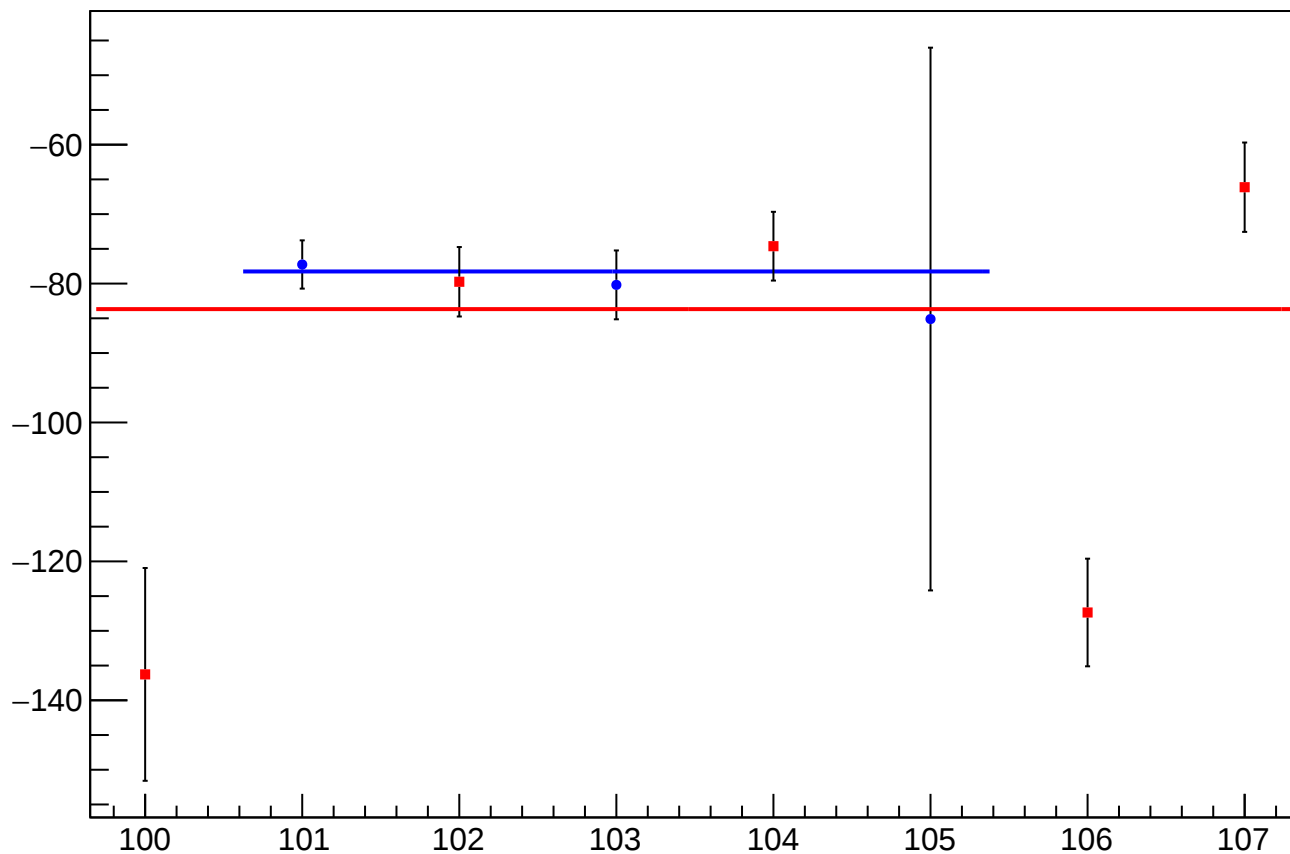
Right Out: -0.452+/-0.017  $\chi^2/\text{NDF}$ : 99.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.411+/-0.023  $\chi^2/\text{NDF}$ : 24.5/2

-0.452+/-0.017  $\chi^2/\text{NDF}$ : 99.7/4

reg\_asym\_sam\_26\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -78.255 $\pm$ 2.837  $\chi^2$ /NDF: 0.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

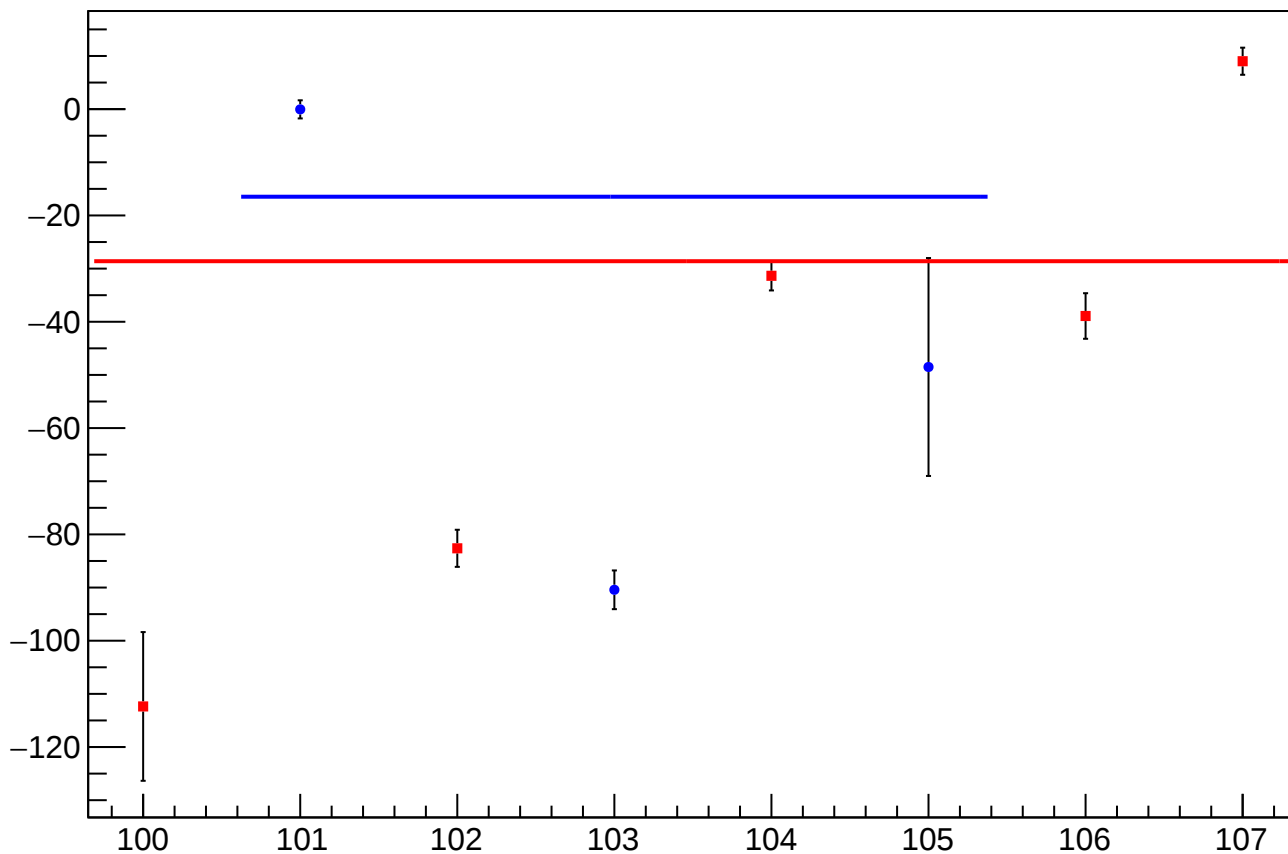
Right Out: -83.677 $\pm$ 2.818  $\chi^2$ /NDF: 55.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-78.255 $\pm$ 2.837  $\chi^2$ /NDF: 0.3/2

-83.677 $\pm$ 2.818  $\chi^2$ /NDF: 55.0/4

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs slug



Right In: -16.475+/-1.540  $\chi^2/\text{NDF}$ : 507.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

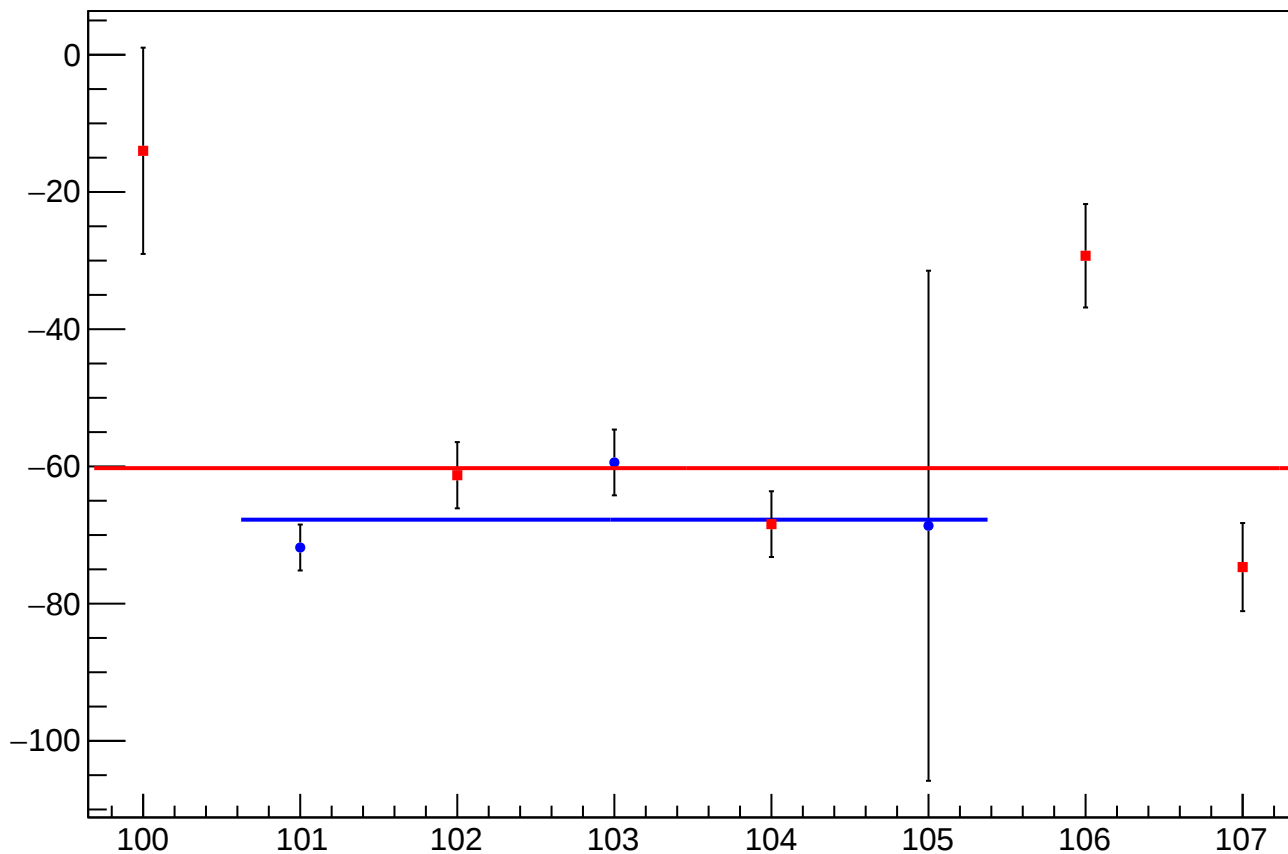
-16.475+/-1.540  $\chi^2/\text{NDF}$ : 507.5/2

Right Out: -28.607+/-1.530  $\chi^2/\text{NDF}$ : 499.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-28.607+/-1.530  $\chi^2/\text{NDF}$ : 499.8/4

# reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs slug



Right In:  $-67.760 \pm 2.737$   $\chi^2/\text{NDF}: 4.5/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

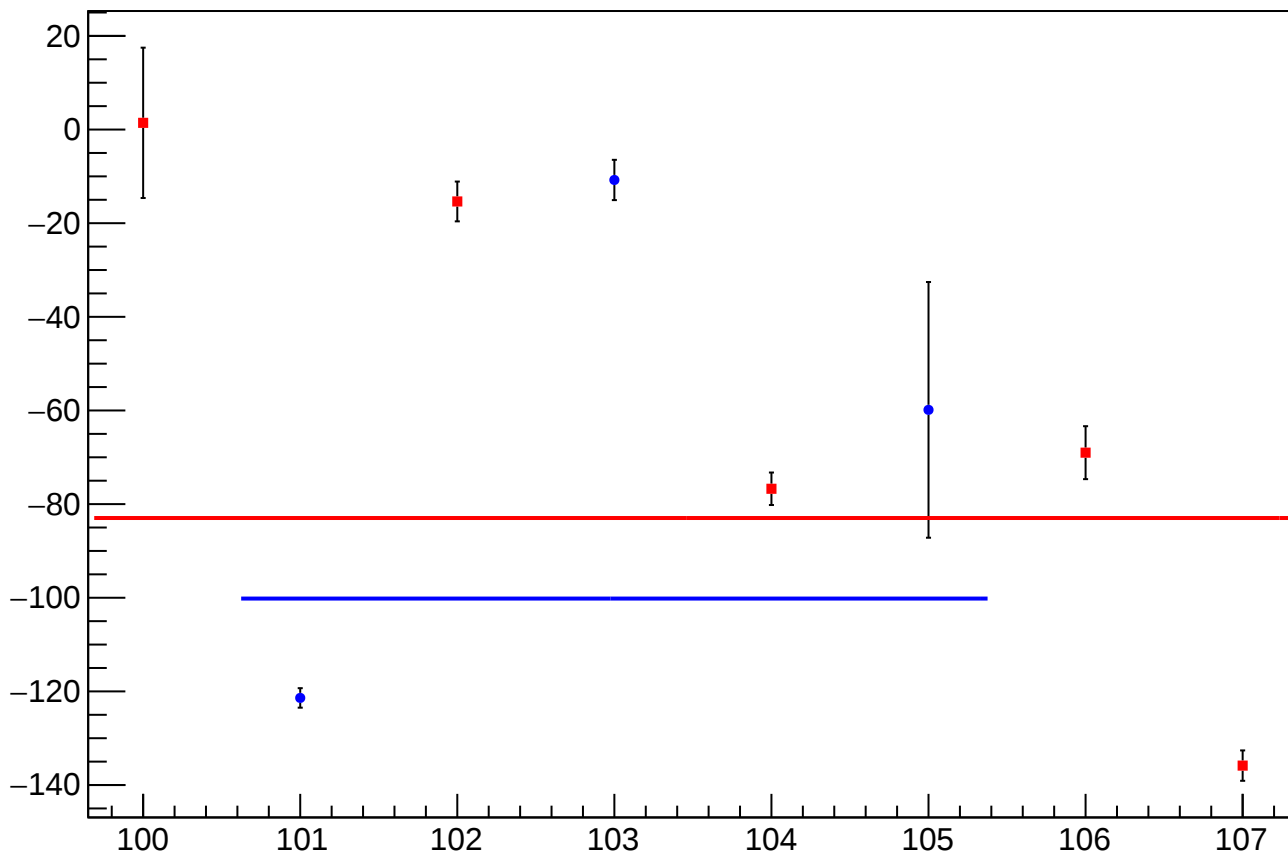
Right Out:  $-60.251 \pm 2.745$   $\chi^2/\text{NDF}: 34.3/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-67.760 \pm 2.737$   $\chi^2/\text{NDF}: 4.5/2$

$-60.251 \pm 2.745$   $\chi^2/\text{NDF}: 34.3/4$

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs slug



Right In: -100.173+/-1.871  $\chi^2$ /NDF: 537.9/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

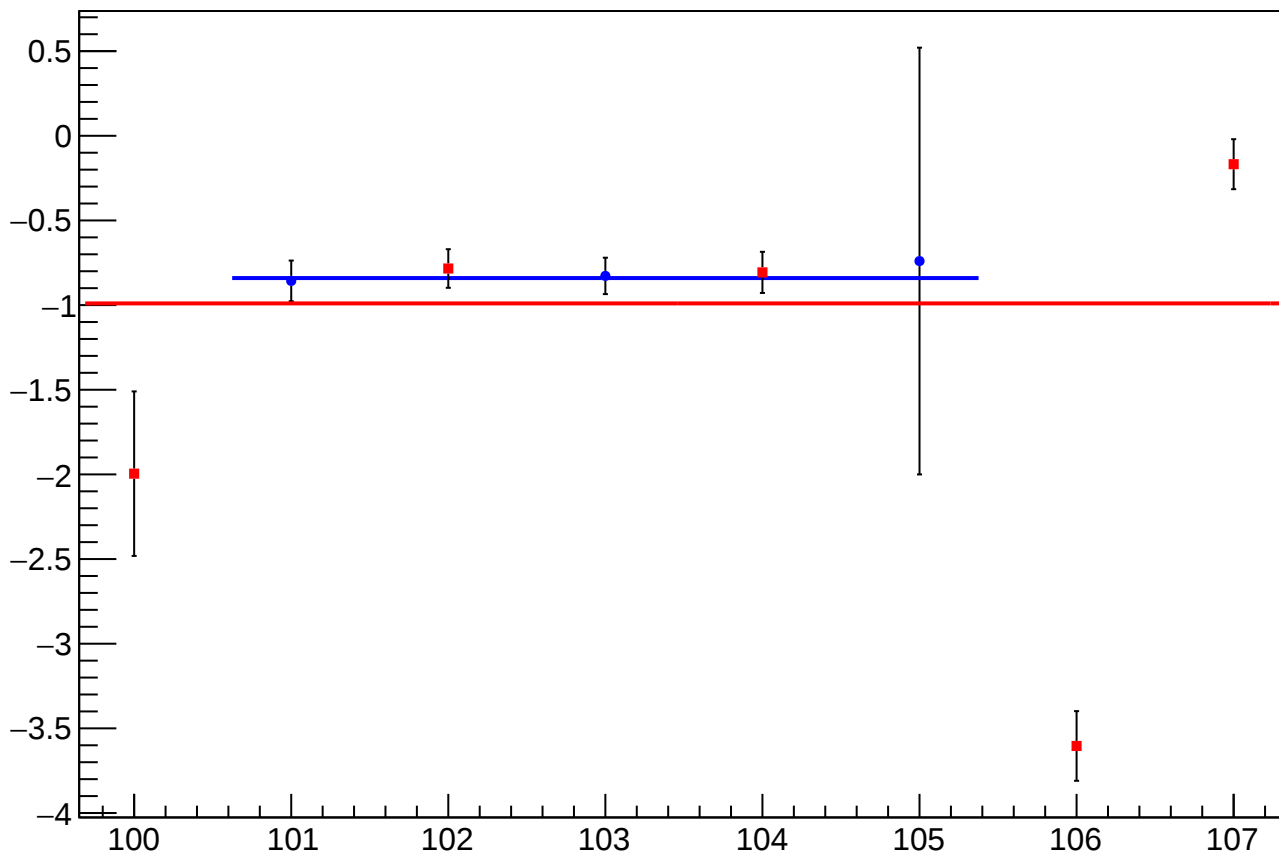
Right Out: -82.968+/-1.929  $\chi^2$ /NDF: 555.8/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-100.173+/-1.871  $\chi^2$ /NDF: 537.9/2

-82.968+/-1.929  $\chi^2$ /NDF: 555.8/4

# reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs slug



Right In:  $-0.840 \pm 0.080$   $\chi^2/\text{NDF}: 0.0/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

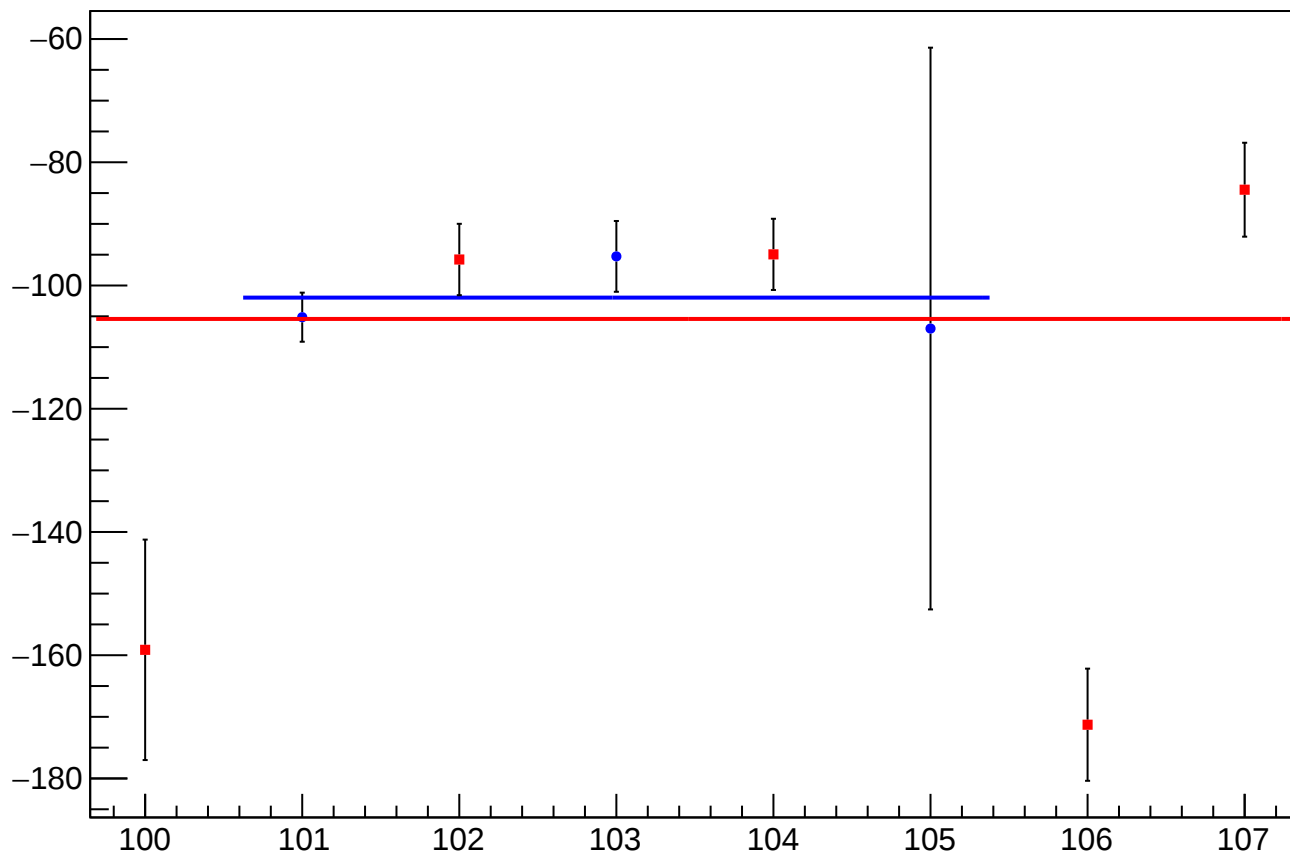
Right Out:  $-0.990 \pm 0.068$   $\chi^2/\text{NDF}: 202.3/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.840 \pm 0.080$   $\chi^2/\text{NDF}: 0.0/2$

$-0.990 \pm 0.068$   $\chi^2/\text{NDF}: 202.3/4$

reg\_asym\_sam\_26\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -101.964 $\pm$ 3.265  $\chi^2$ /NDF: 2.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

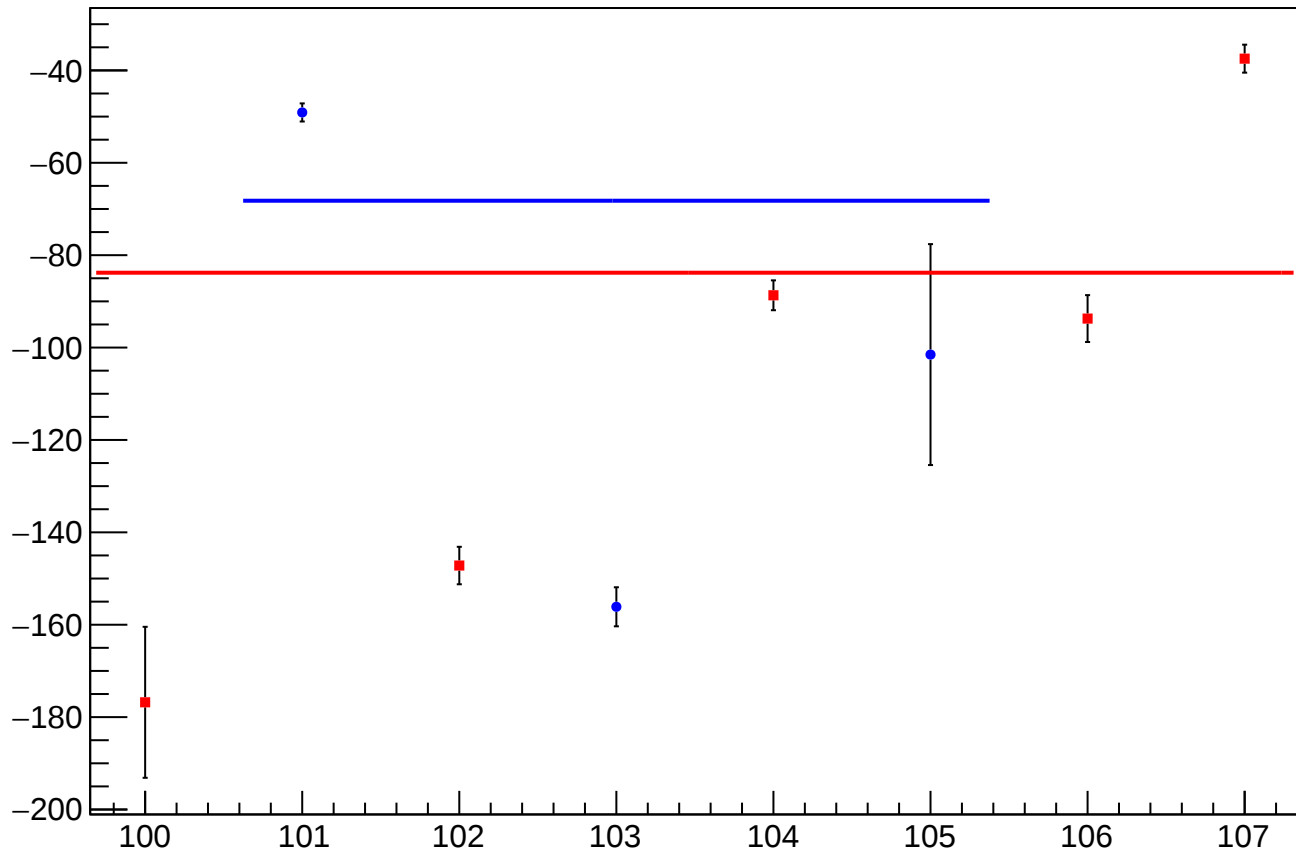
Right Out: -105.427 $\pm$ 3.293  $\chi^2$ /NDF: 75.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-101.964 $\pm$ 3.265  $\chi^2$ /NDF: 2.0/2

-105.427 $\pm$ 3.293  $\chi^2$ /NDF: 75.0/4

reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -68.213+/-1.773  $\chi^2/\text{NDF}$ : 529.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

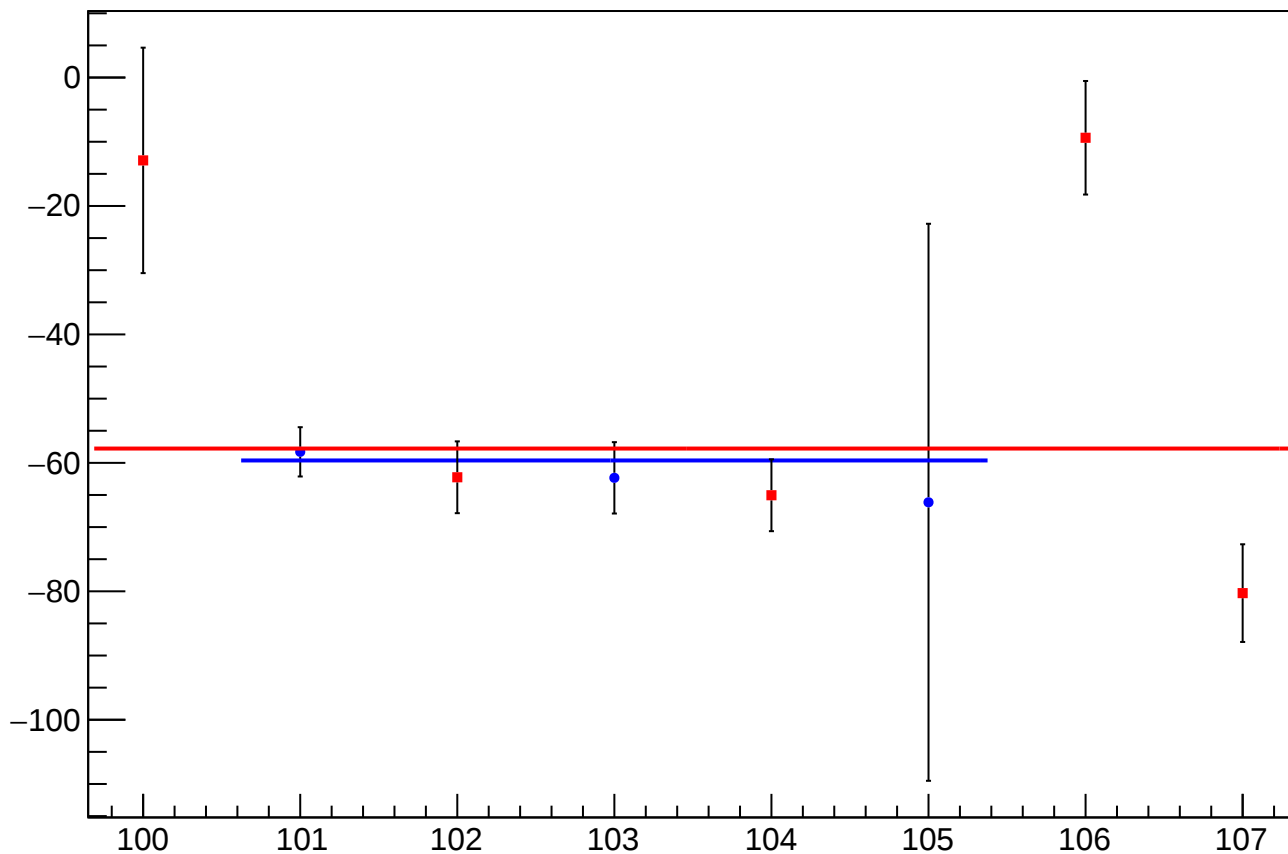
Right Out: -83.795+/-1.801  $\chi^2/\text{NDF}$ : 517.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-68.213+/-1.773  $\chi^2/\text{NDF}$ : 529.4/2

-83.795+/-1.801  $\chi^2/\text{NDF}$ : 517.1/4

reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs slug



Right In:  $-59.625 \pm 3.149$   $\chi^2/\text{NDF}$ : 0.4/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

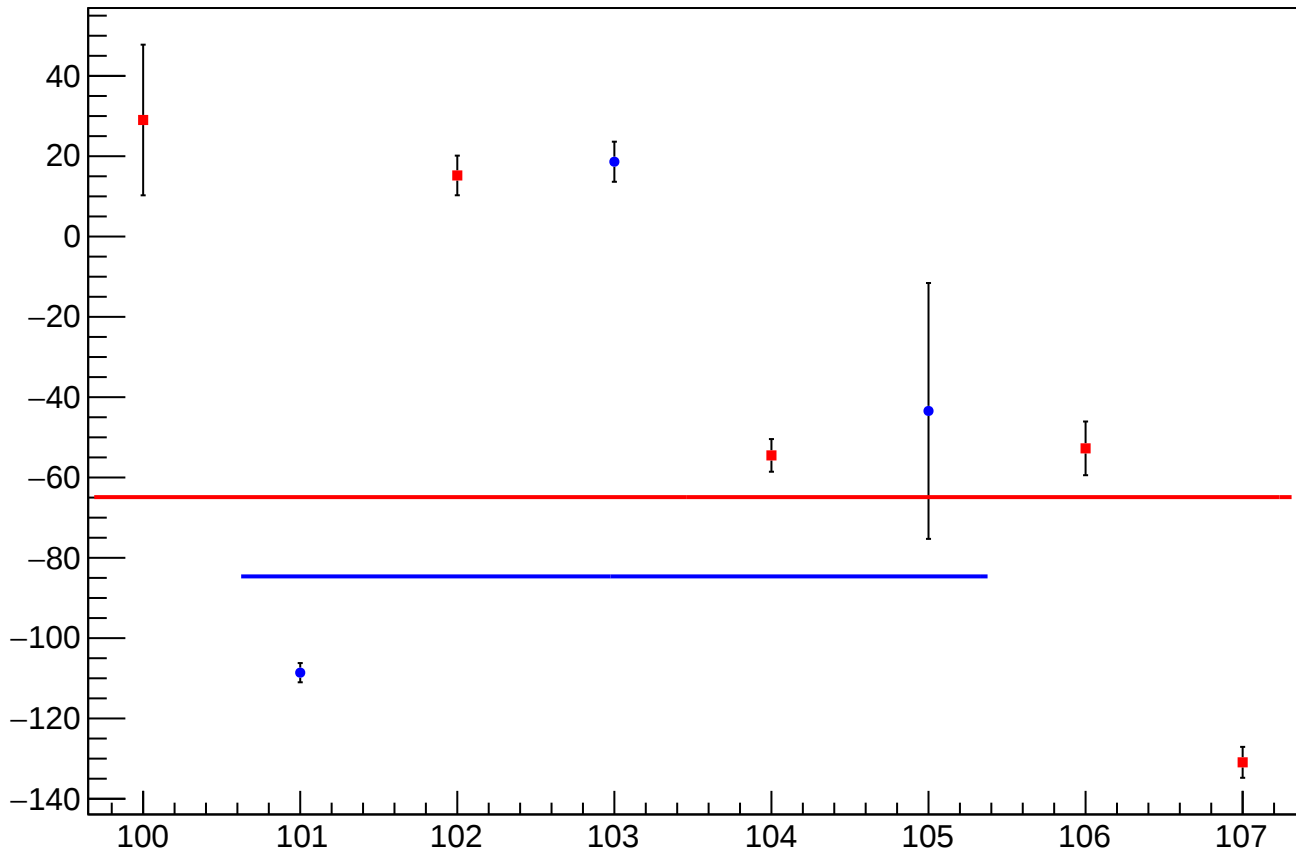
Right Out:  $-57.771 \pm 3.206$   $\chi^2/\text{NDF}$ : 47.6/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-59.625 \pm 3.149$   $\chi^2/\text{NDF}$ : 0.4/2

$-57.771 \pm 3.206$   $\chi^2/\text{NDF}$ : 47.6/4

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -84.627 $\pm$ 2.154  $\chi^2$ /NDF: 529.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

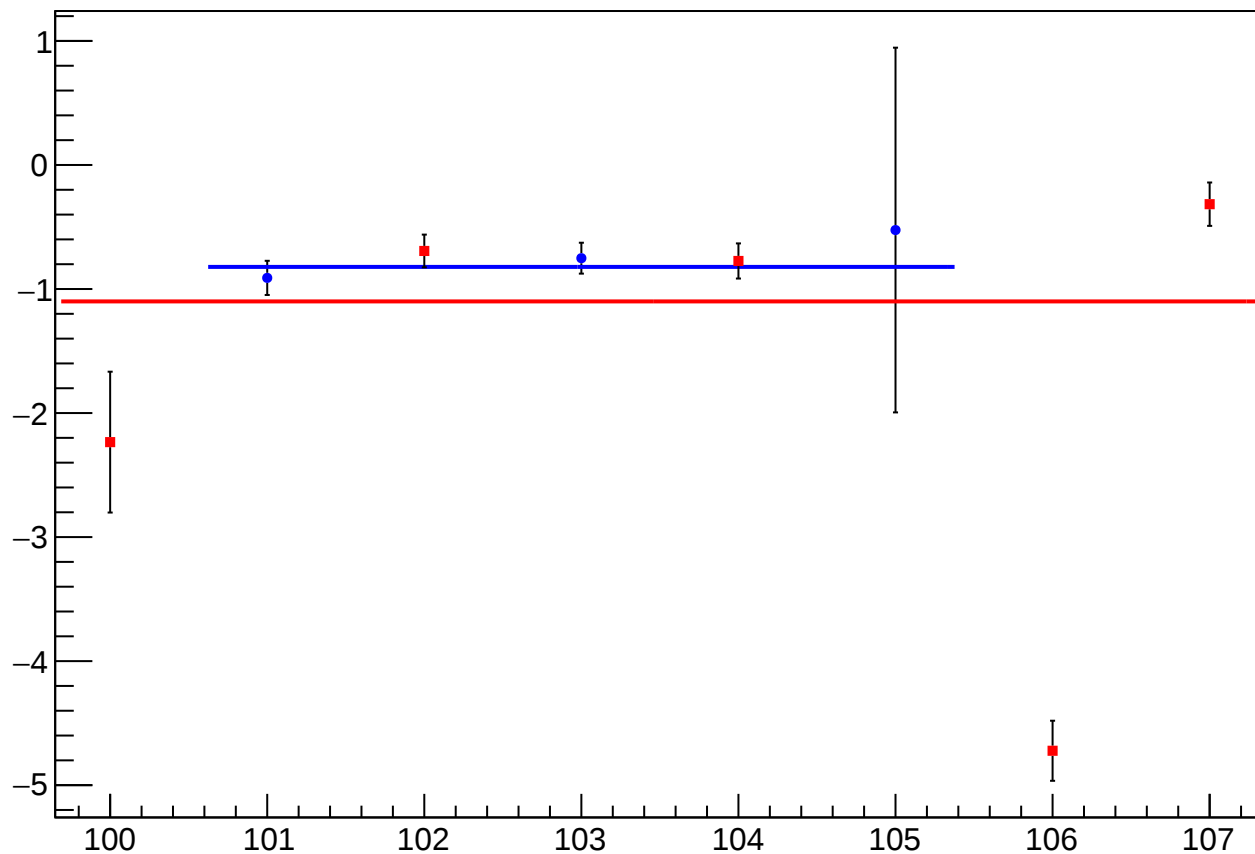
Right Out: -64.884 $\pm$ 2.270  $\chi^2$ /NDF: 592.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-84.627 $\pm$ 2.154  $\chi^2$ /NDF: 529.7/2

-64.884 $\pm$ 2.270  $\chi^2$ /NDF: 592.4/4

# reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs slug



Right In: -0.822+/-0.092  $\chi^2$ /NDF: 0.8/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

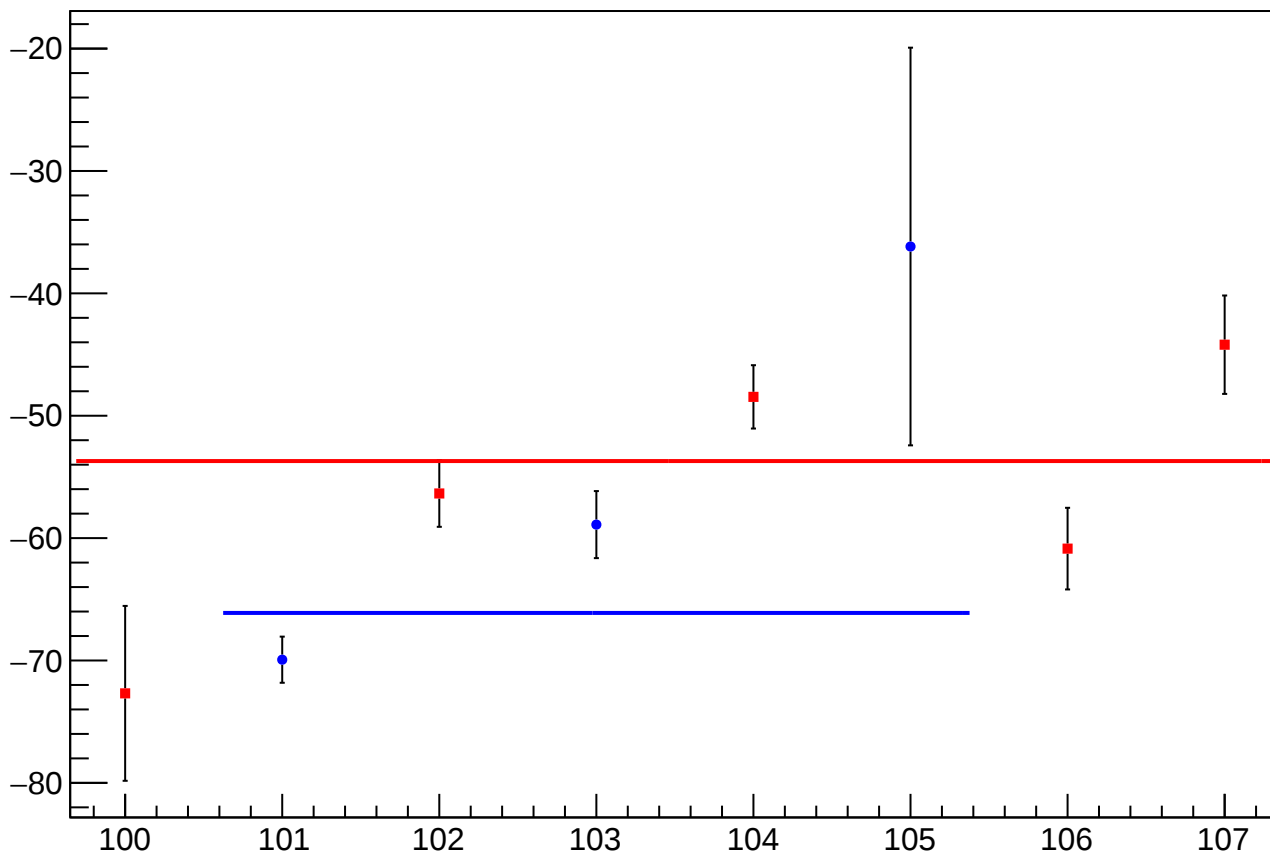
Right Out: -1.100+/-0.079  $\chi^2$ /NDF: 262.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.822+/-0.092  $\chi^2$ /NDF: 0.8/2

-1.100+/-0.079  $\chi^2$ /NDF: 262.7/4

reg\_asym\_sam\_48\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -66.113+/-1.546  $\chi^2/\text{NDF}$ : 14.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

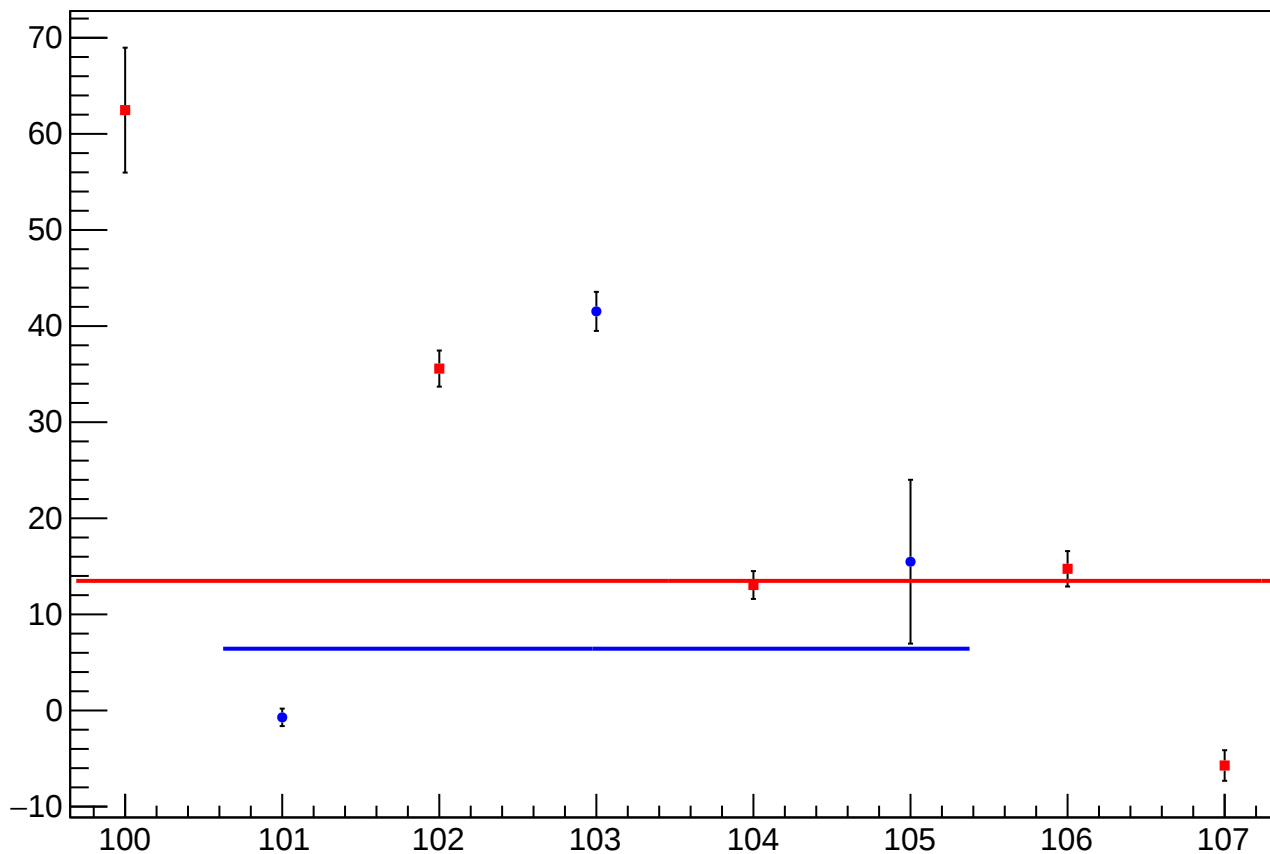
Right Out: -53.704+/-1.482  $\chi^2/\text{NDF}$ : 22.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-66.113+/-1.546  $\chi^2/\text{NDF}$ : 14.4/2

-53.704+/-1.482  $\chi^2/\text{NDF}$ : 22.3/4

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 6.429+/-0.827  $\chi^2/\text{NDF}$ : 361.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

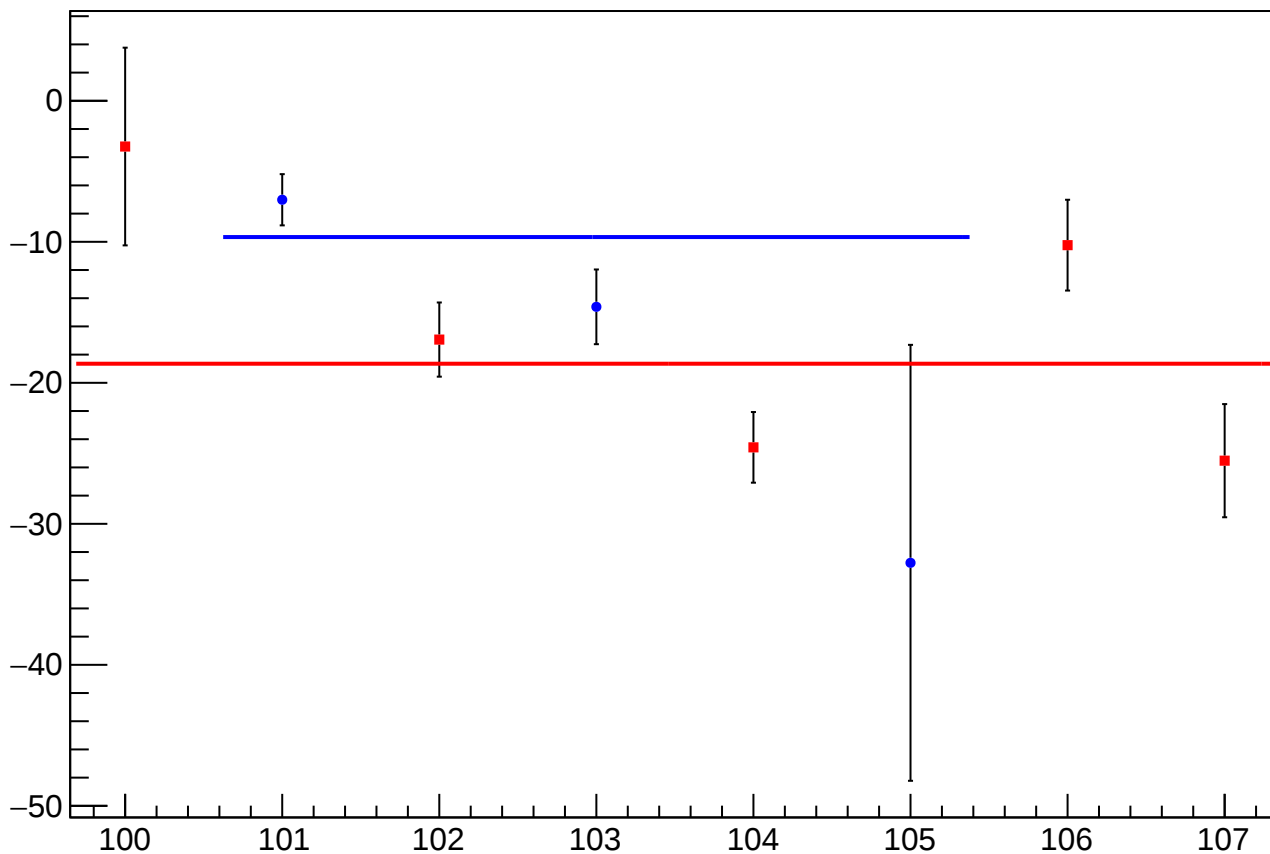
Right Out: 13.489+/-0.824  $\chi^2/\text{NDF}$ : 341.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6.429+/-0.827  $\chi^2/\text{NDF}$ : 361.2/2

13.489+/-0.824  $\chi^2/\text{NDF}$ : 341.2/4

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs slug



Right In: -9.662+/-1.491  $\chi^2/\text{NDF}$ : 7.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

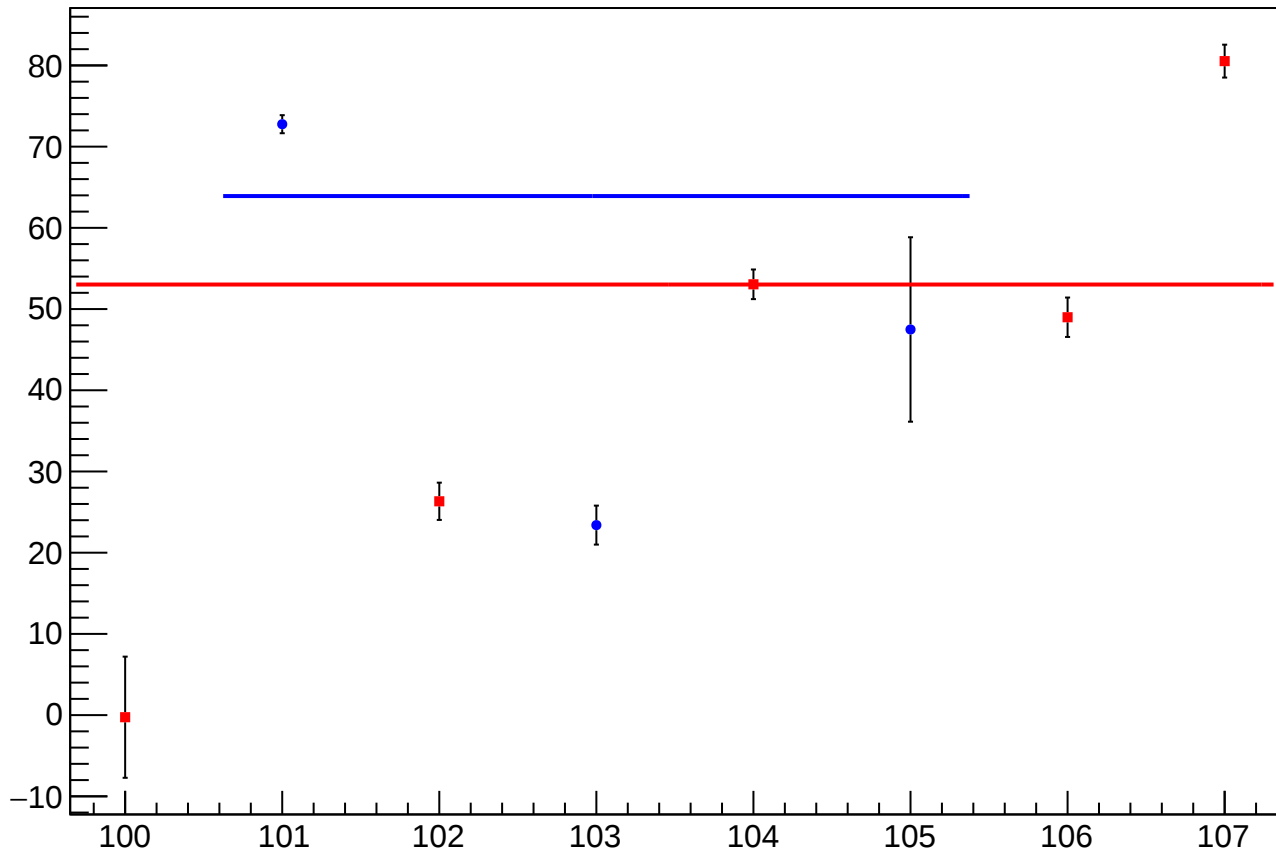
Right Out: -18.646+/-1.439  $\chi^2/\text{NDF}$ : 20.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-9.662+/-1.491  $\chi^2/\text{NDF}$ : 7.8/2

-18.646+/-1.439  $\chi^2/\text{NDF}$ : 20.6/4

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 63.915+/-1.005  $\chi^2/\text{NDF}$ : 350.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

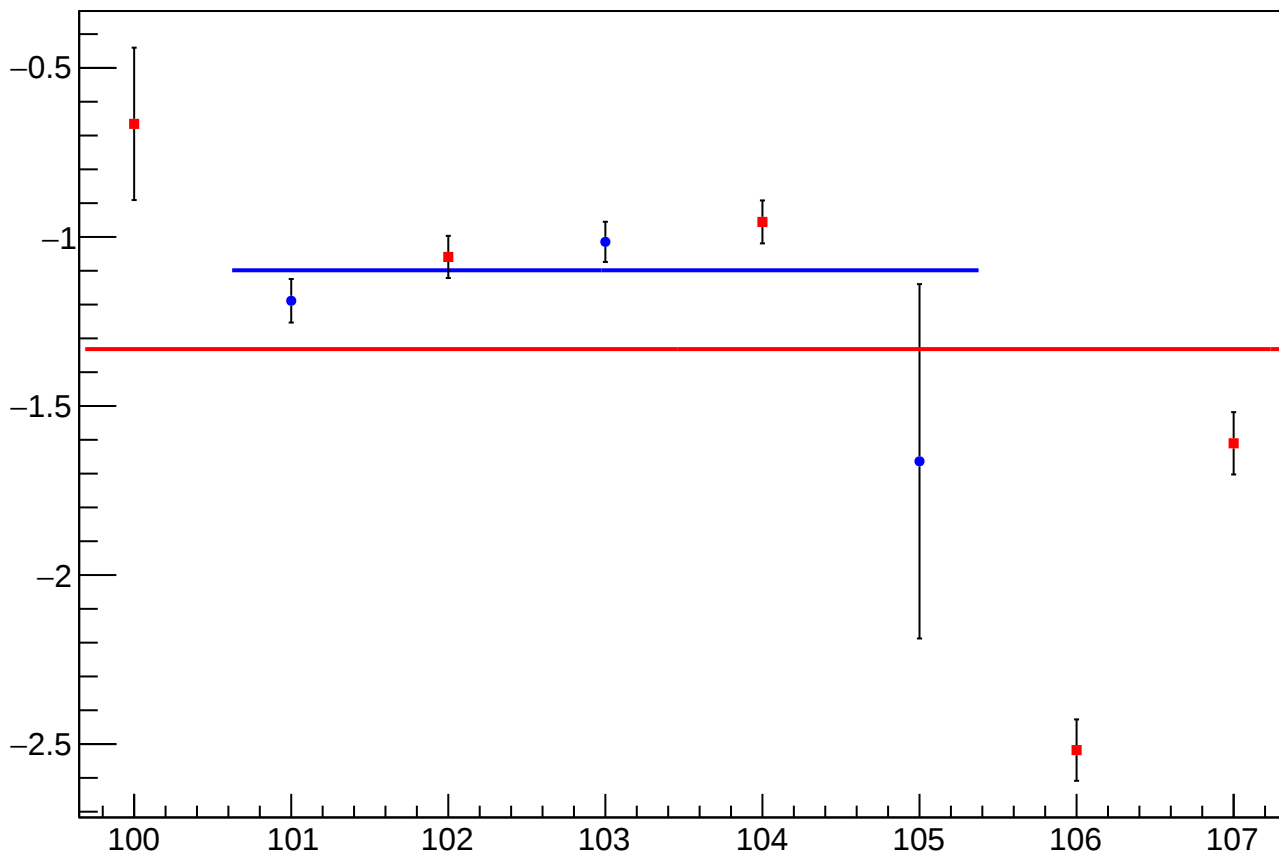
Right Out: 53.021+/-1.041  $\chi^2/\text{NDF}$ : 373.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

63.915+/-1.005  $\chi^2/\text{NDF}$ : 350.5/2

53.021+/-1.041  $\chi^2/\text{NDF}$ : 373.6/4

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs slug



Right In: -1.099+/-0.044  $\chi^2$ /NDF: 5.1/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

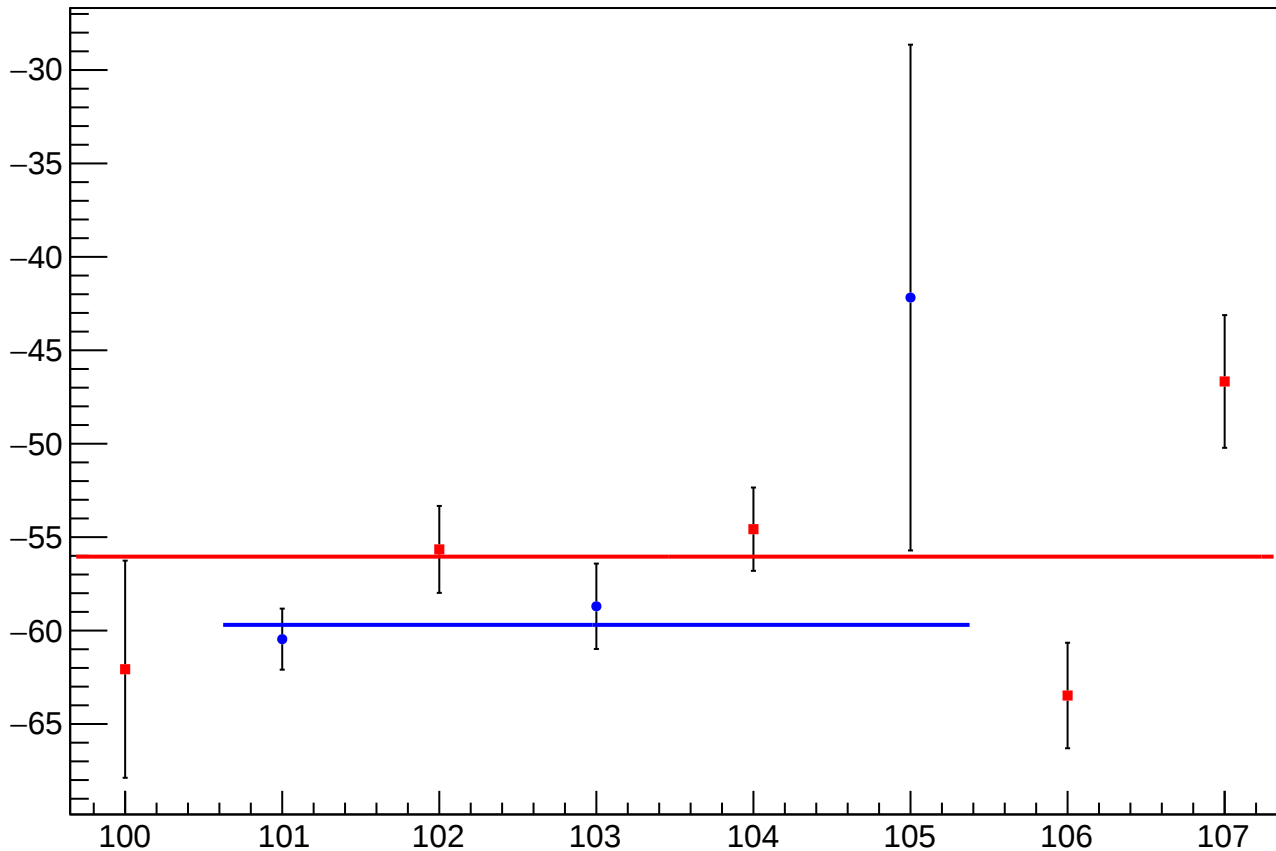
-1.099+/-0.044  $\chi^2$ /NDF: 5.1/2

Right Out: -1.332+/-0.036  $\chi^2$ /NDF: 242.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1.332+/-0.036  $\chi^2$ /NDF: 242.7/4

reg\_asym\_sam\_48\_dd\_diff\_bpm4aX\_slope vs slug



Right In:  $-59.695 \pm 1.323$   $\chi^2/\text{NDF}$ : 2.1/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

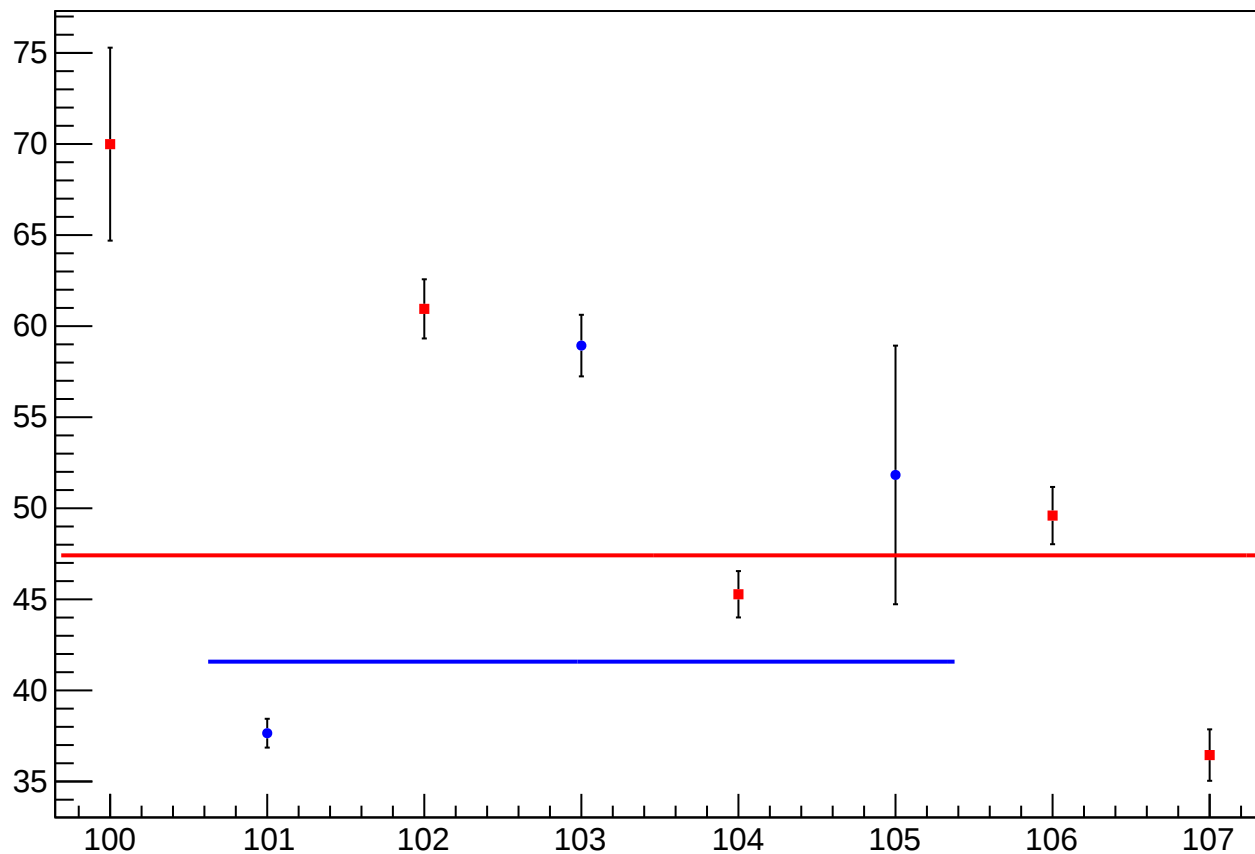
Right Out:  $-56.043 \pm 1.270$   $\chi^2/\text{NDF}$ : 15.4/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-59.695 \pm 1.323$   $\chi^2/\text{NDF}$ : 2.1/2

$-56.043 \pm 1.270$   $\chi^2/\text{NDF}$ : 15.4/4

reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 41.579 $\pm$ 0.713  $\chi^2$ /NDF: 132.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

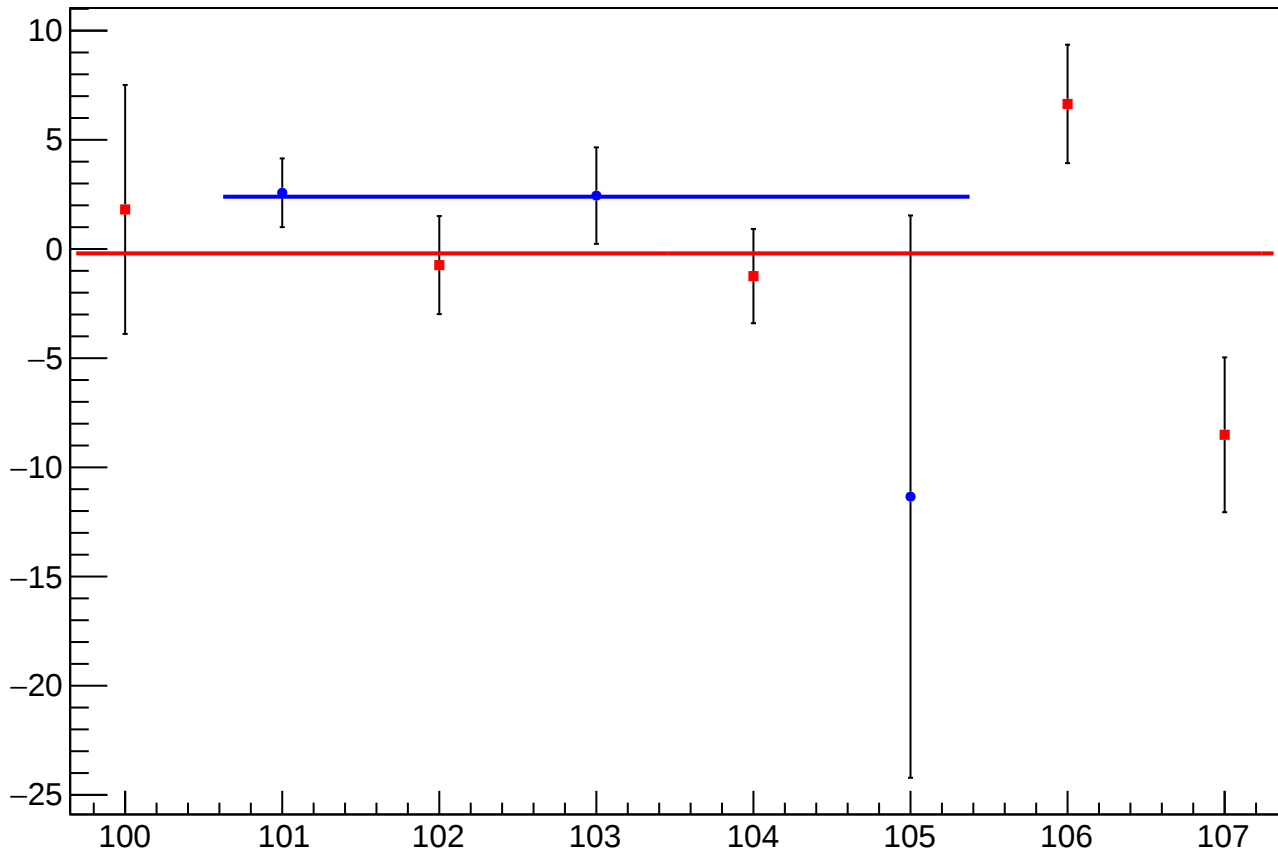
Right Out: 47.415 $\pm$ 0.718  $\chi^2$ /NDF: 152.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

41.579 $\pm$ 0.713  $\chi^2$ /NDF: 132.1/2

47.415 $\pm$ 0.718  $\chi^2$ /NDF: 152.6/4

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 2.395+/-1.276  $\chi^2/\text{NDF}$ : 1.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

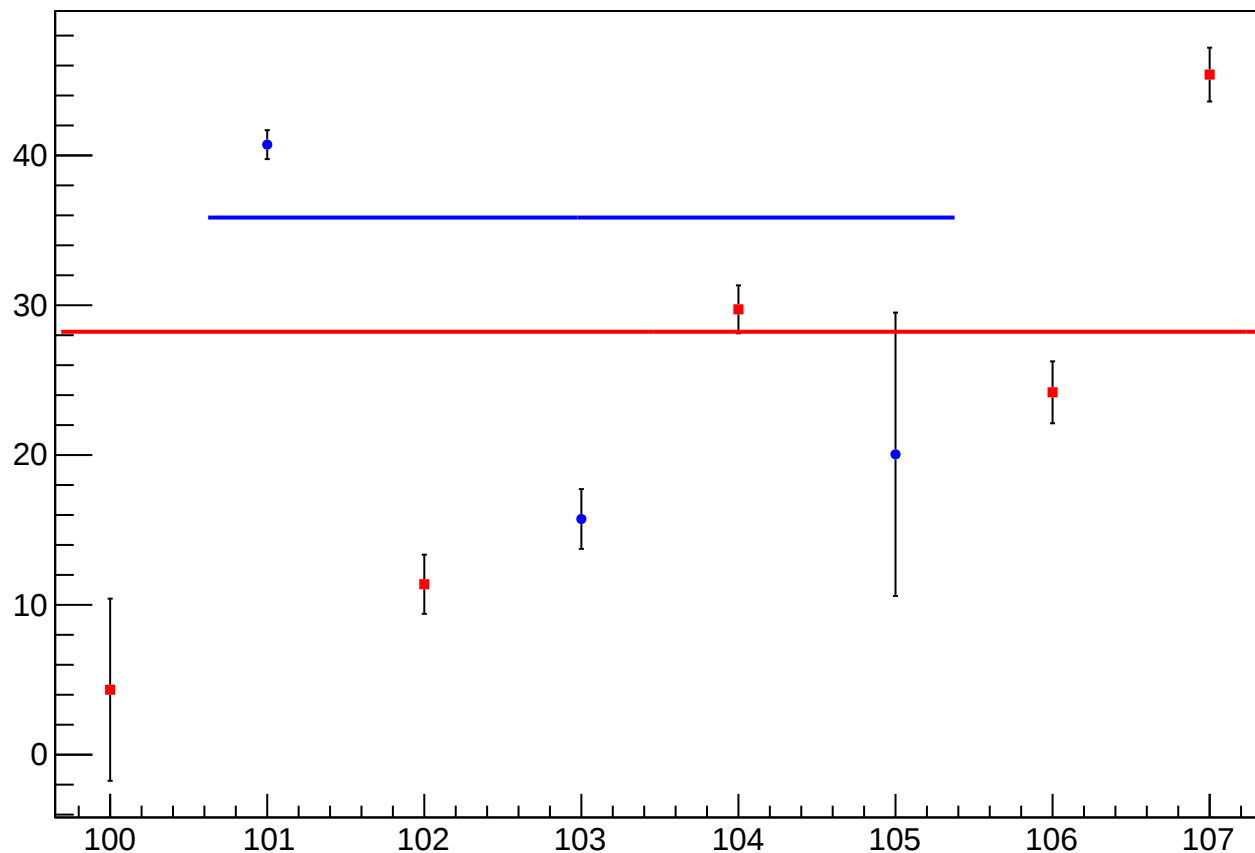
2.395+/-1.276  $\chi^2/\text{NDF}$ : 1.2/2

Right Out: -0.199+/-1.232  $\chi^2/\text{NDF}$ : 12.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.199+/-1.232  $\chi^2/\text{NDF}$ : 12.3/4

reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 35.853+/-0.865  $\chi^2/\text{NDF}$ : 129.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

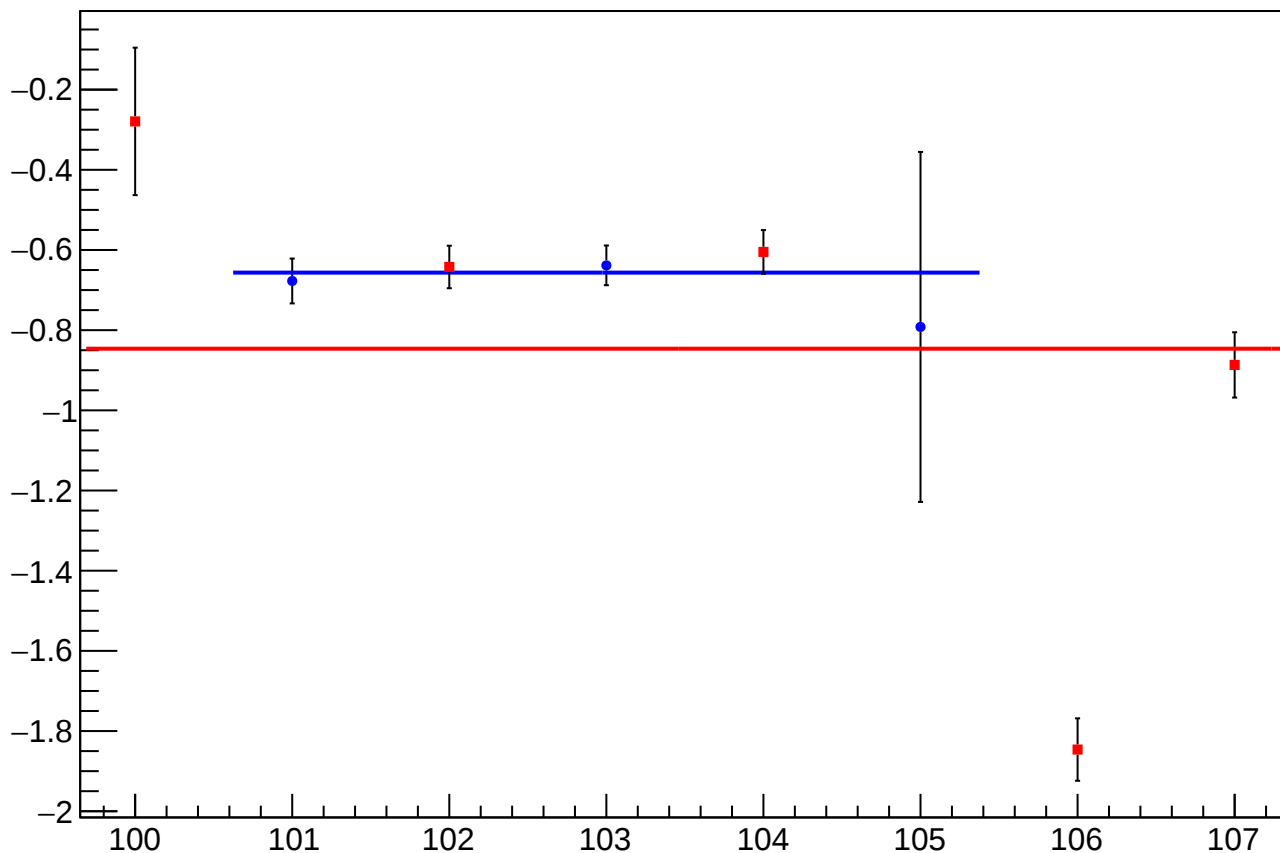
Right Out: 28.231+/-0.906  $\chi^2/\text{NDF}$ : 184.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

35.853+/-0.865  $\chi^2/\text{NDF}$ : 129.8/2

28.231+/-0.906  $\chi^2/\text{NDF}$ : 184.2/4

# reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs slug



Right In: -0.656+/-0.037  $\chi^2/\text{NDF}$ : 0.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

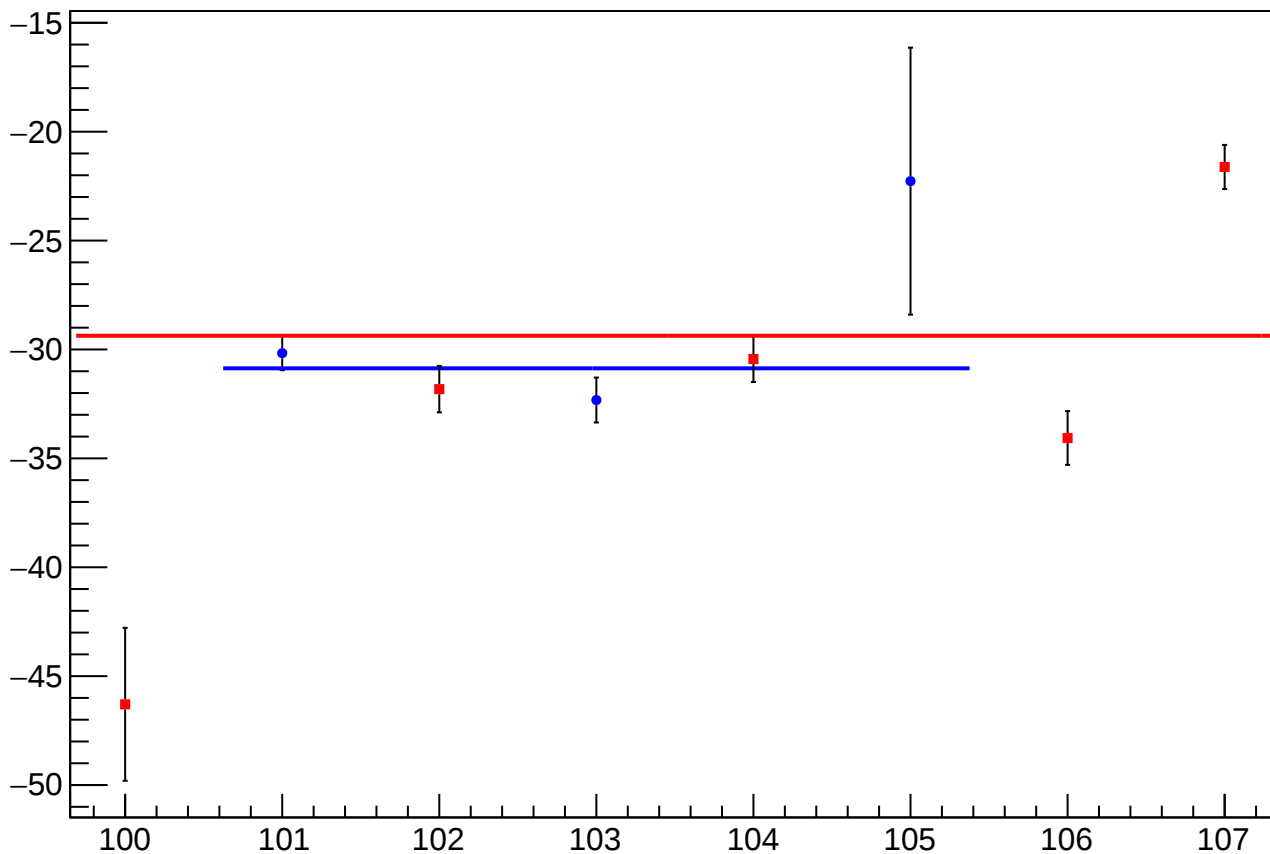
Right Out: -0.846+/-0.031  $\chi^2/\text{NDF}$ : 208.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.656+/-0.037  $\chi^2/\text{NDF}$ : 0.4/2

-0.846+/-0.031  $\chi^2/\text{NDF}$ : 208.9/4

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -30.866+/-0.620  $\chi^2/\text{NDF}$ : 4.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

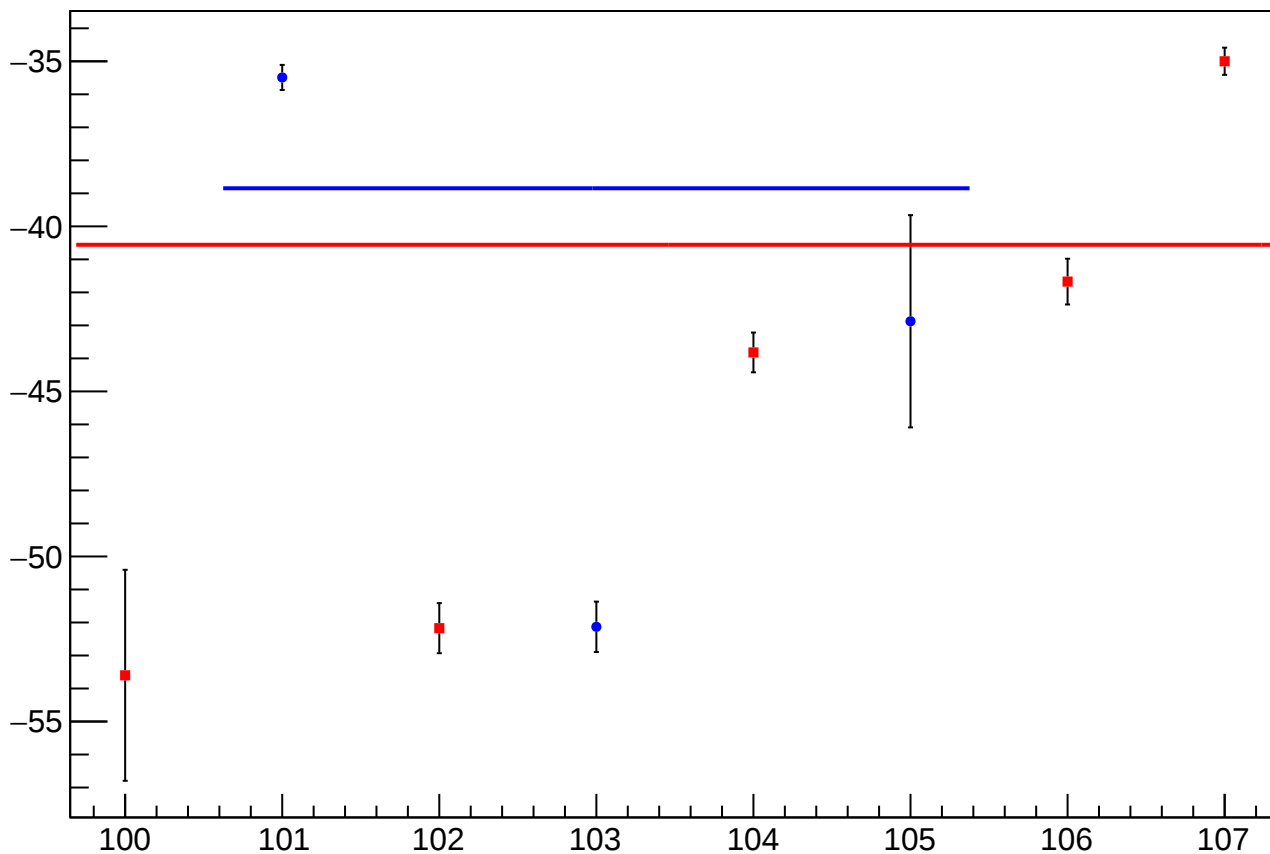
Right Out: -29.369+/-0.535  $\chi^2/\text{NDF}$ : 102.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-30.866+/-0.620  $\chi^2/\text{NDF}$ : 4.8/2

-29.369+/-0.535  $\chi^2/\text{NDF}$ : 102.7/4

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs slug



Right In:  $-38.846 \pm 0.339$   $\chi^2/\text{NDF}: 382.1/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

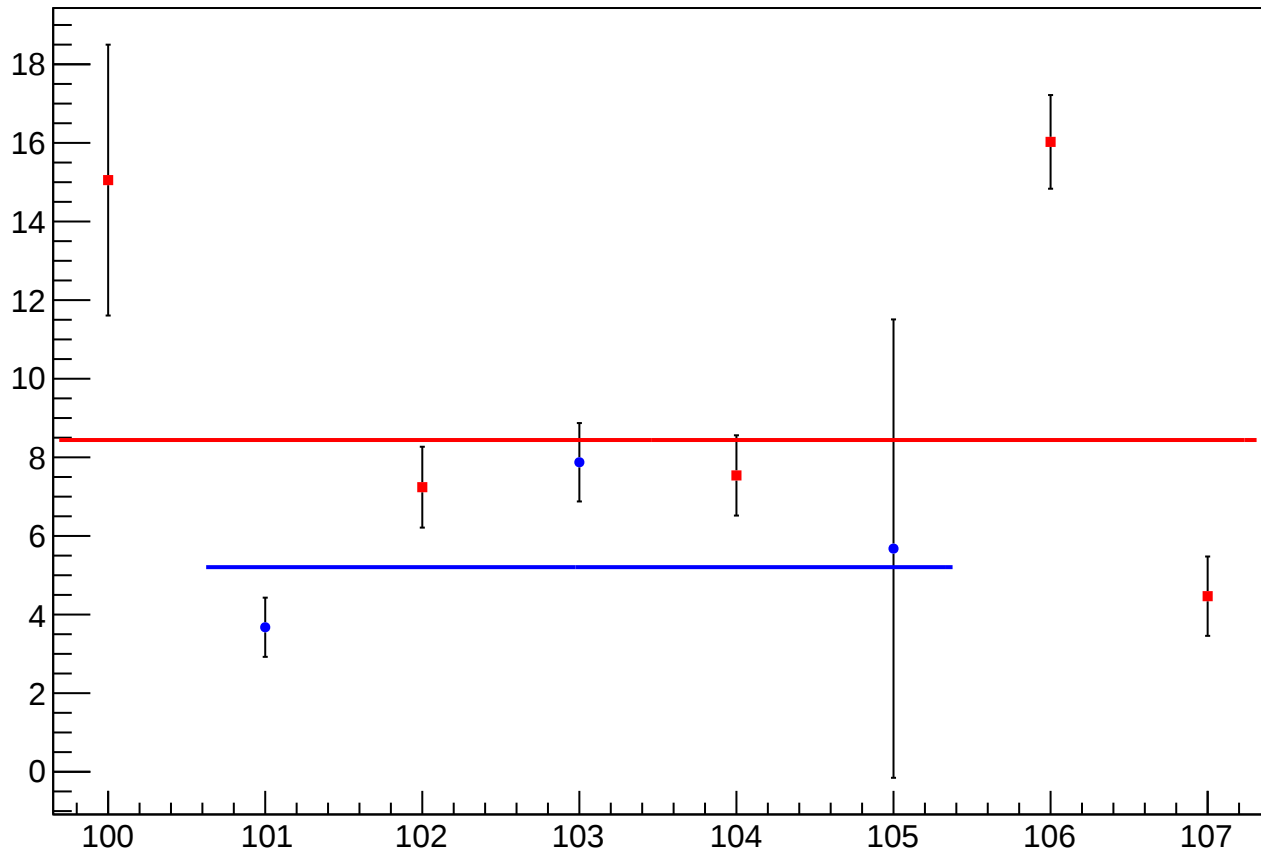
$-38.846 \pm 0.339$   $\chi^2/\text{NDF}: 382.1/2$

Right Out:  $-40.558 \pm 0.282$   $\chi^2/\text{NDF}: 465.1/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-40.558 \pm 0.282$   $\chi^2/\text{NDF}: 465.1/4$

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 5.206 $\pm$ 0.598  $\chi^2$ /NDF: 11.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

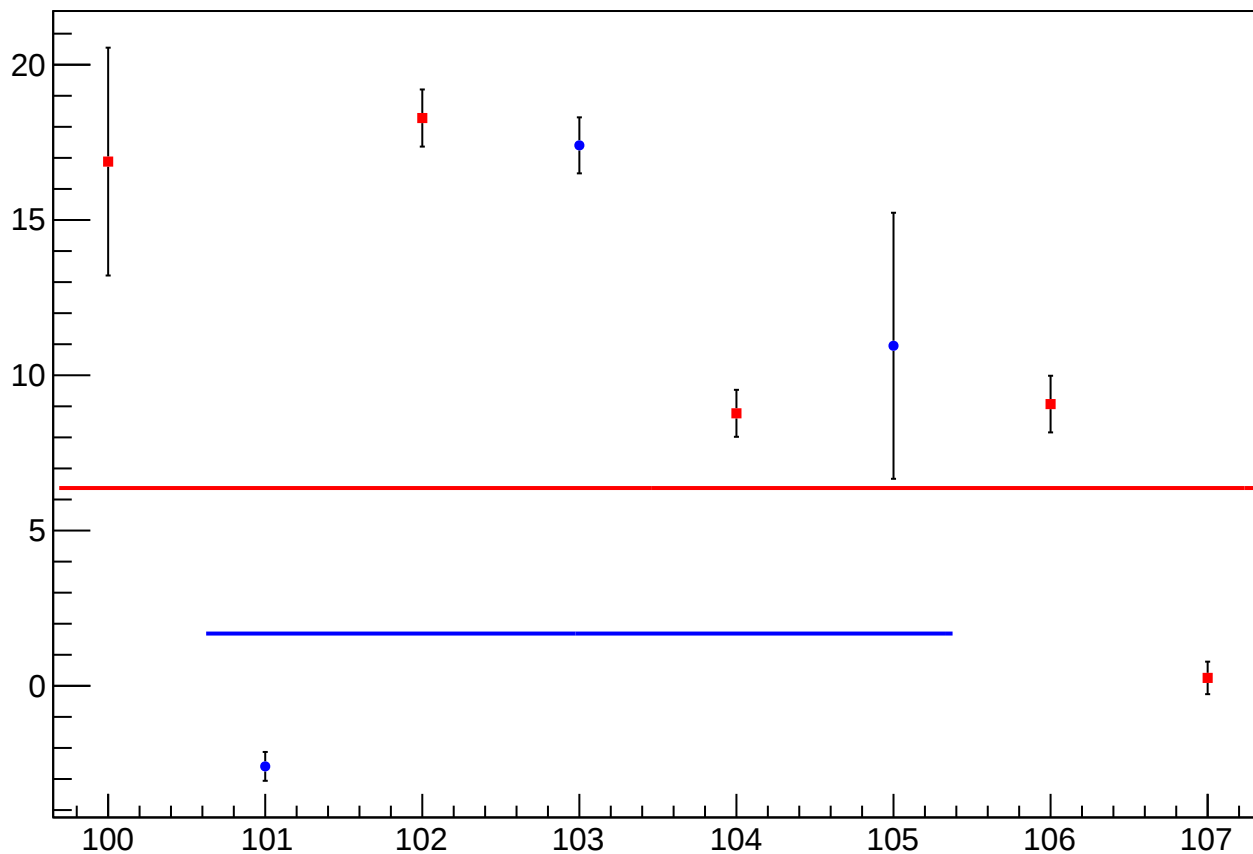
Right Out: 8.441 $\pm$ 0.522  $\chi^2$ /NDF: 61.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

5.206 $\pm$ 0.598  $\chi^2$ /NDF: 11.3/2

8.441 $\pm$ 0.522  $\chi^2$ /NDF: 61.8/4

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 1.683+/-0.411  $\chi^2/\text{NDF}$ : 393.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

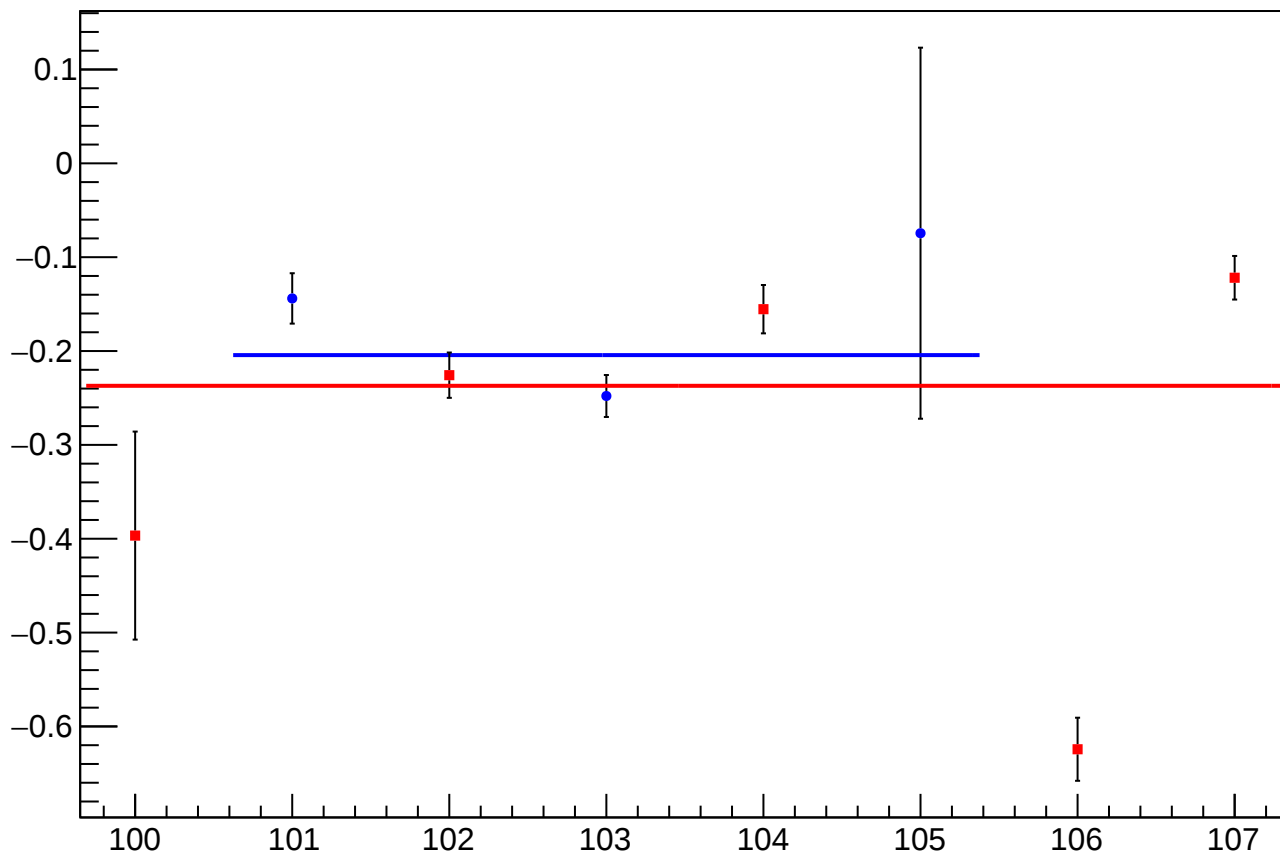
Right Out: 6.369+/-0.357  $\chi^2/\text{NDF}$ : 331.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.683+/-0.411  $\chi^2/\text{NDF}$ : 393.3/2

6.369+/-0.357  $\chi^2/\text{NDF}$ : 331.4/4

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs slug



Right In: -0.204±0.017  $\chi^2/\text{NDF}$ : 9.3/2

Left Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

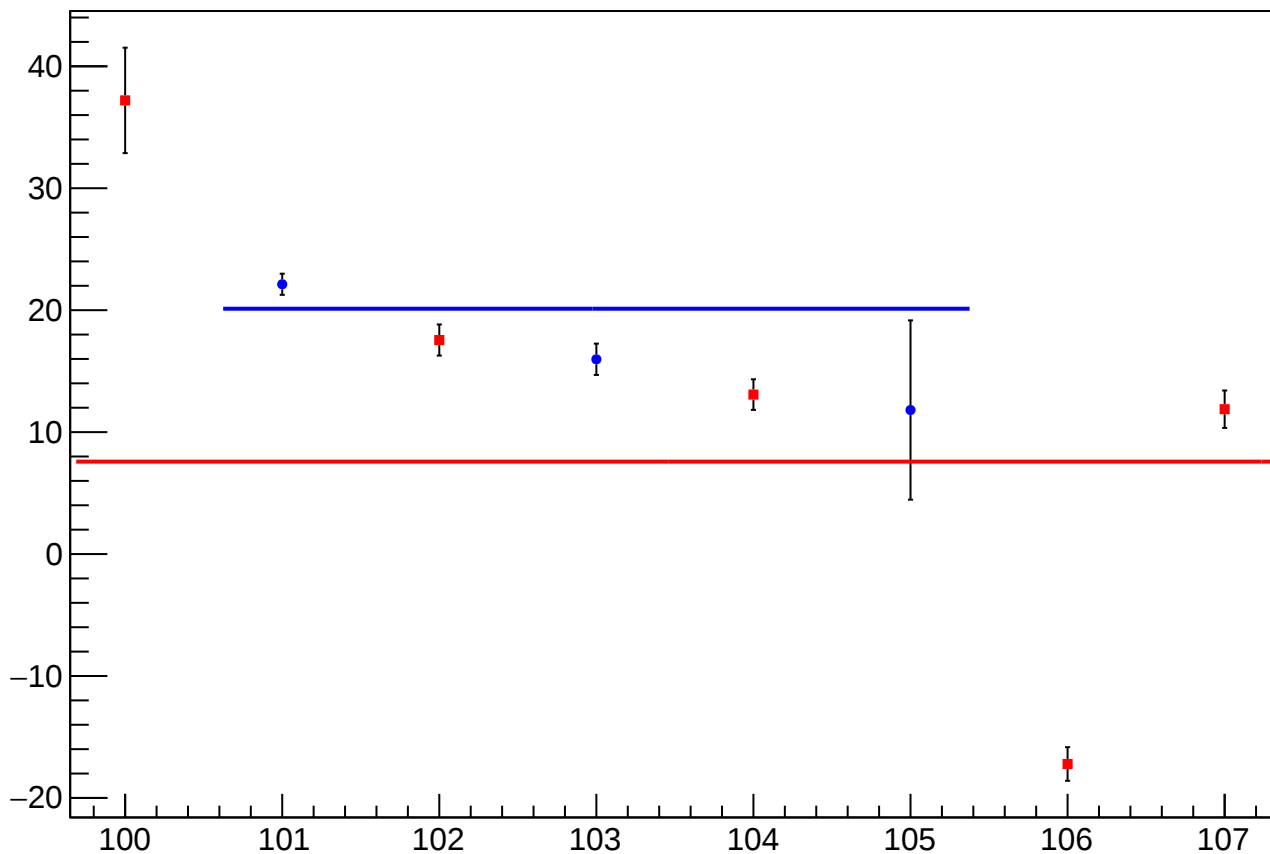
Right Out: -0.237±0.013  $\chi^2/\text{NDF}$ : 169.7/4

Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.204±0.017  $\chi^2/\text{NDF}$ : 9.3/2

-0.237±0.013  $\chi^2/\text{NDF}$ : 169.7/4

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 20.120+/-0.715  $\chi^2/\text{NDF}$ : 17.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

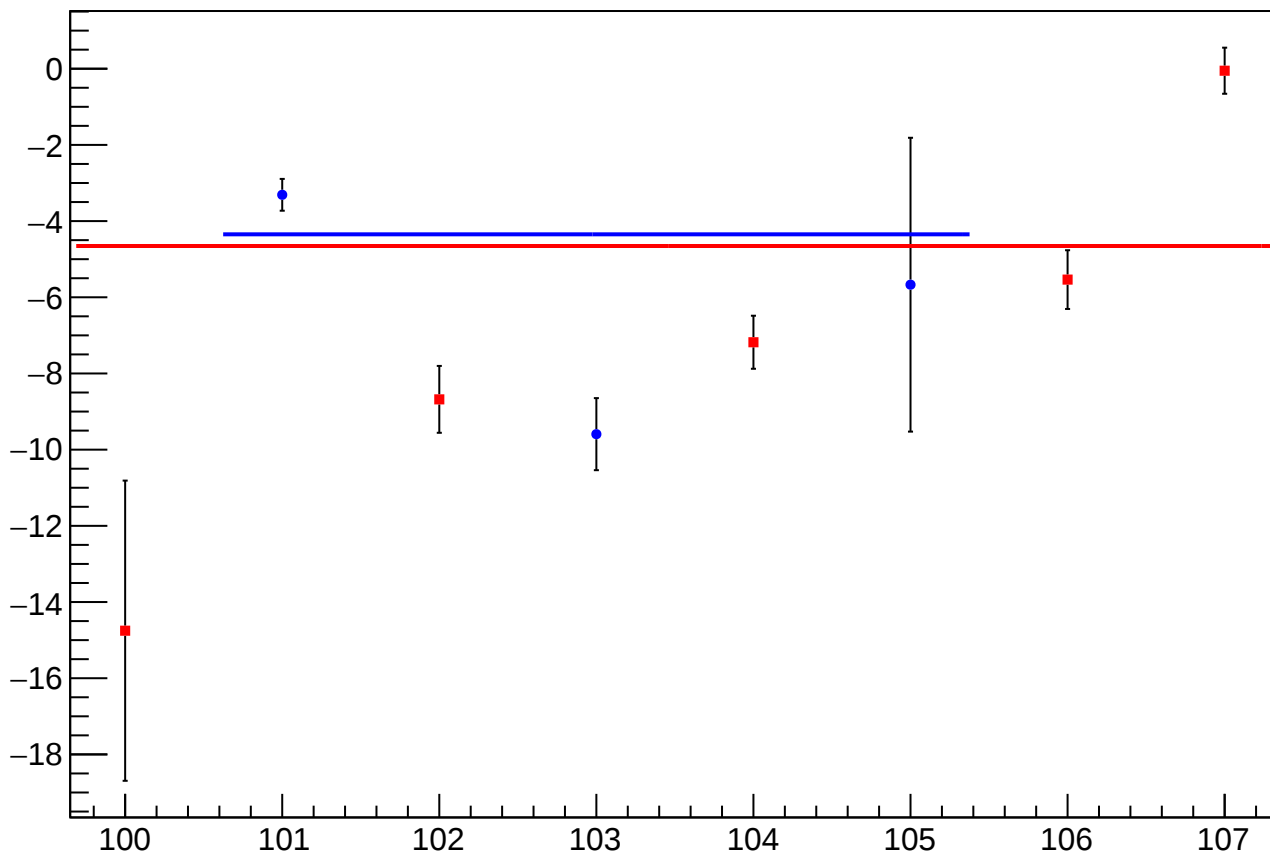
Right Out: 7.580+/-0.666  $\chi^2/\text{NDF}$ : 458.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

20.120+/-0.715  $\chi^2/\text{NDF}$ : 17.1/2

7.580+/-0.666  $\chi^2/\text{NDF}$ : 458.0/4

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -4.347 $\pm$ 0.380  $\chi^2$ /NDF: 37.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

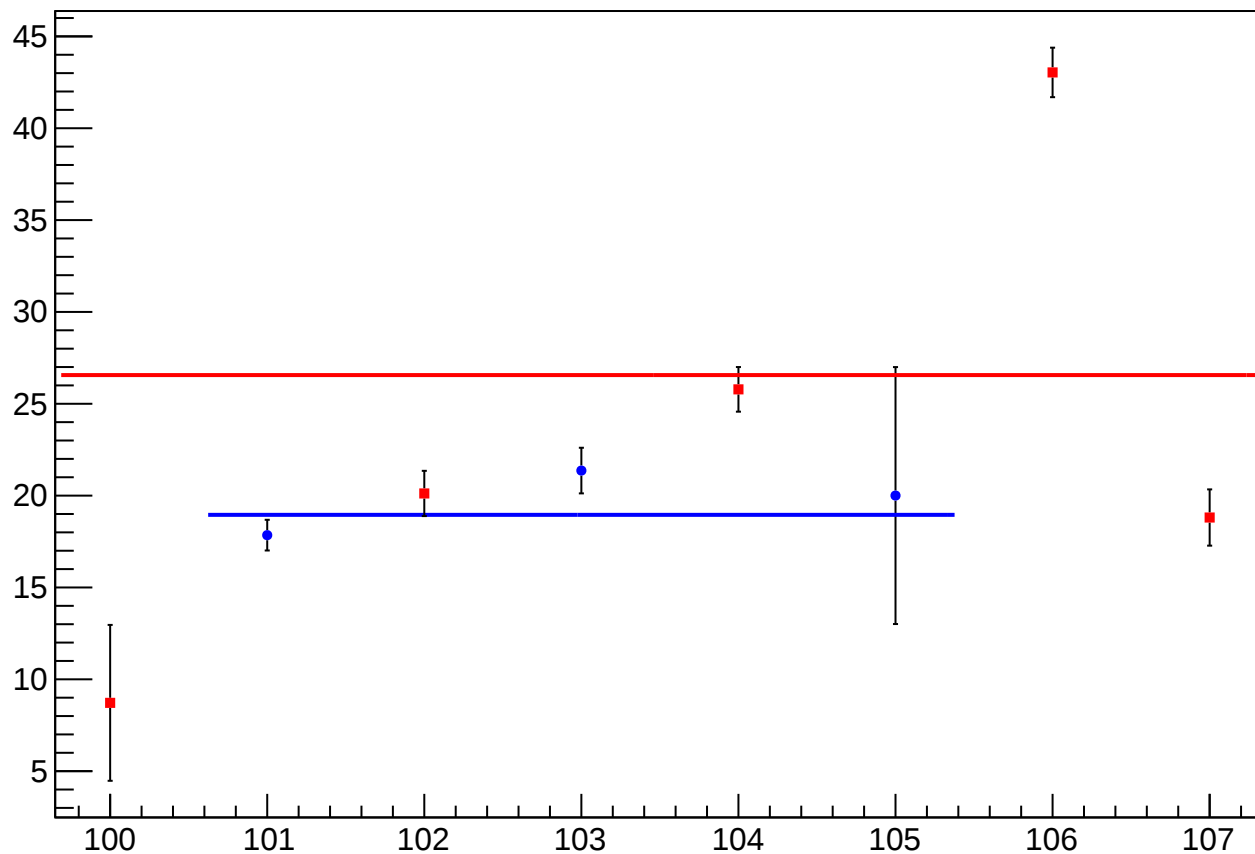
Right Out: -4.654 $\pm$ 0.357  $\chi^2$ /NDF: 99.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-4.347 $\pm$ 0.380  $\chi^2$ /NDF: 37.0/2

-4.654 $\pm$ 0.357  $\chi^2$ /NDF: 99.9/4

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 18.954+/-0.690  $\chi^2/\text{NDF}$ : 5.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

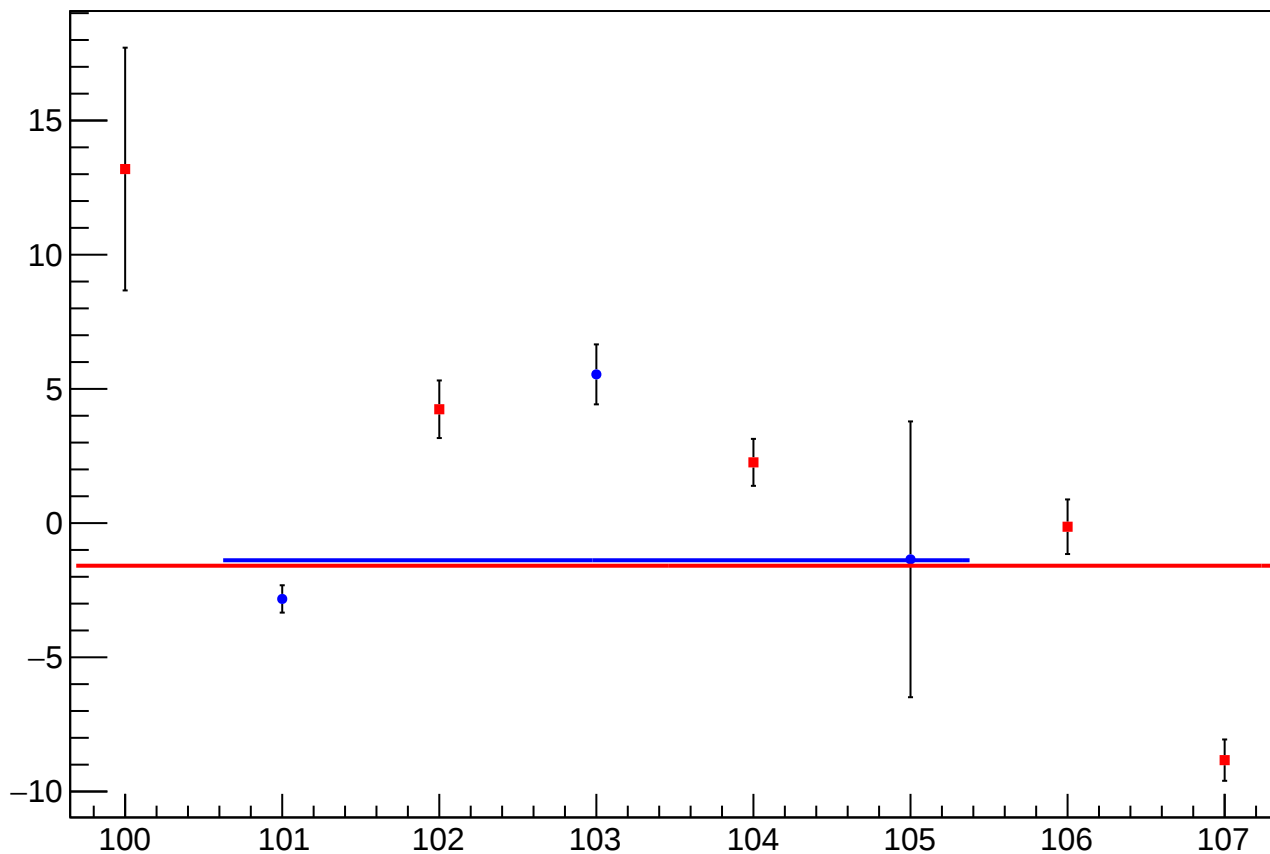
Right Out: 26.562+/-0.650  $\chi^2/\text{NDF}$ : 220.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

18.954+/-0.690  $\chi^2/\text{NDF}$ : 5.5/2

26.562+/-0.650  $\chi^2/\text{NDF}$ : 220.6/4

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -1.384 $\pm$ 0.462  $\chi^2$ /NDF: 46.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

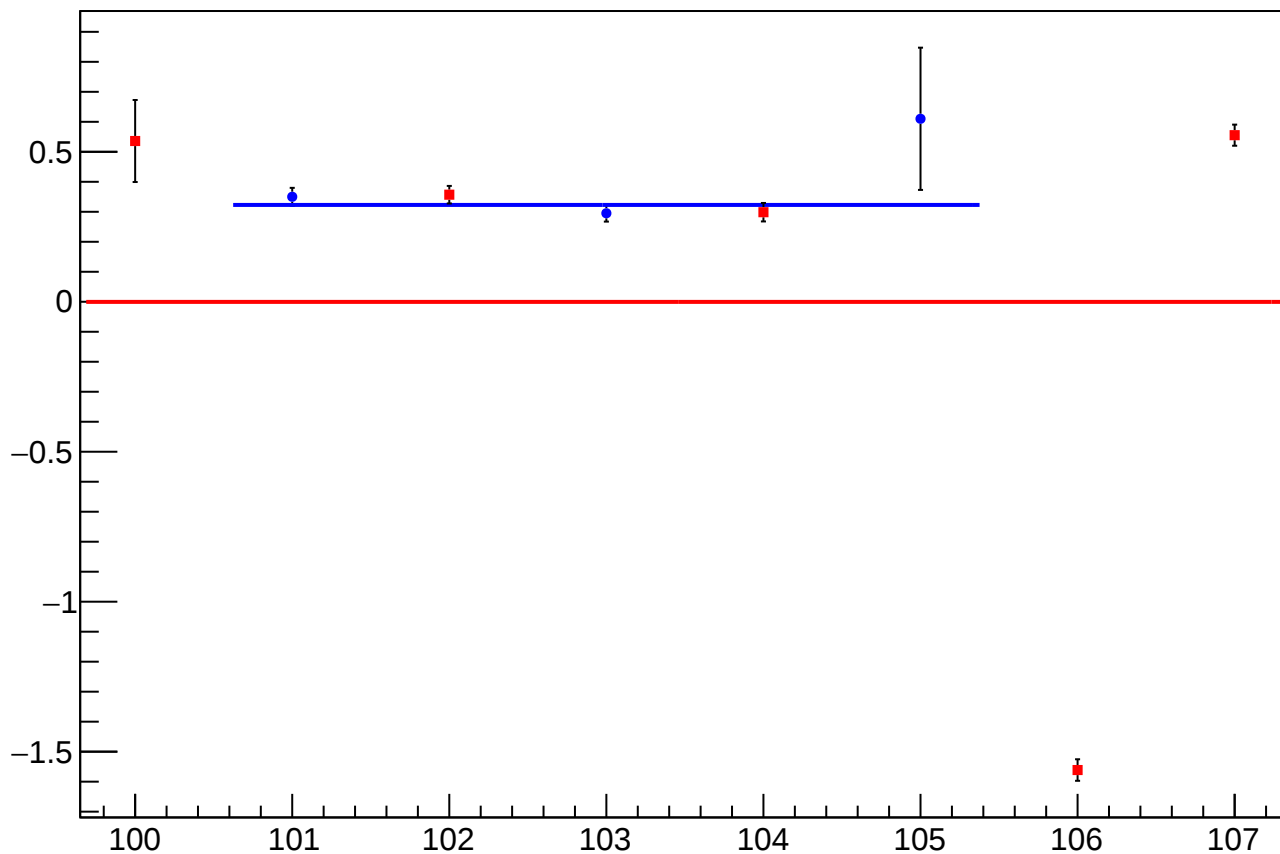
Right Out: -1.588 $\pm$ 0.453  $\chi^2$ /NDF: 150.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-1.384 $\pm$ 0.462  $\chi^2$ /NDF: 46.4/2

-1.588 $\pm$ 0.453  $\chi^2$ /NDF: 150.2/4

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs slug



Right In: 0.323+/-0.020  $\chi^2/\text{NDF}$ : 3.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

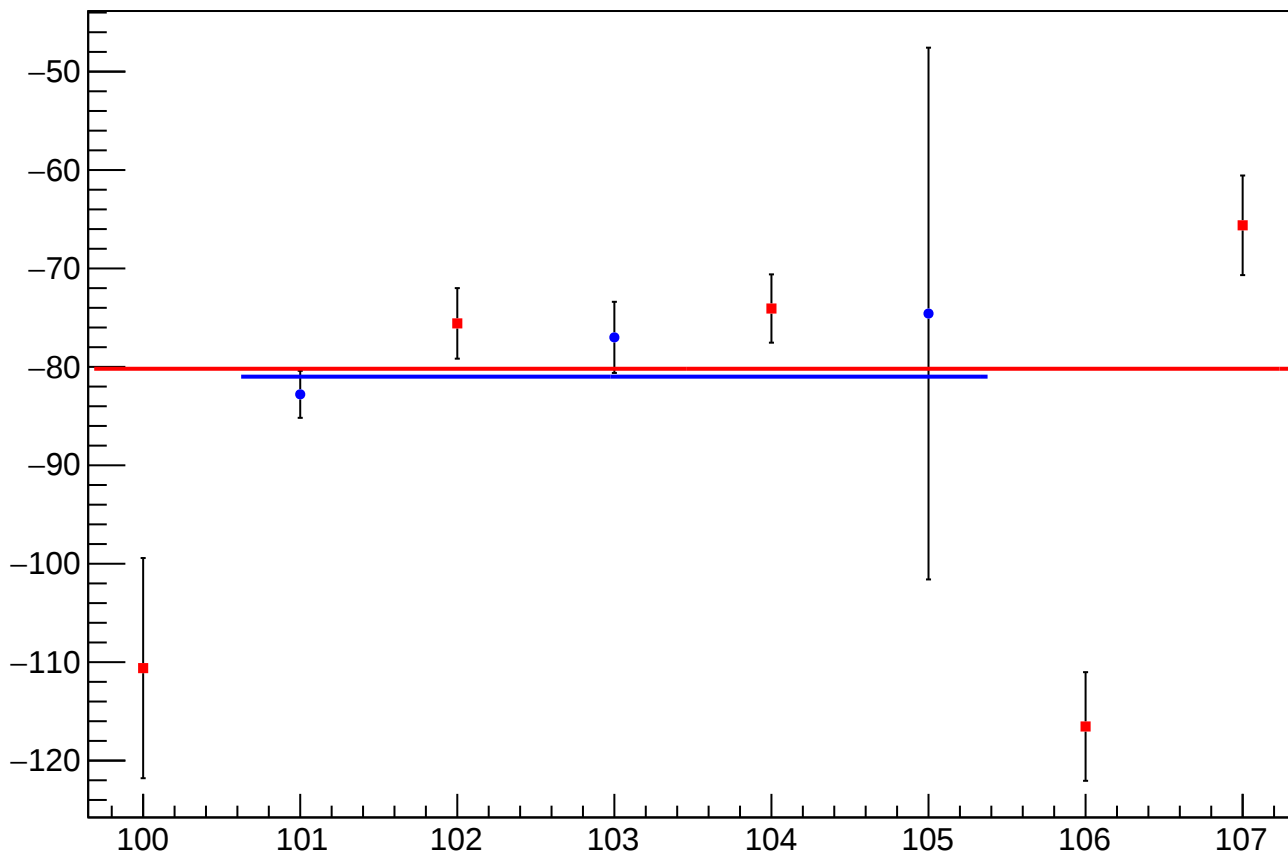
Right Out: -0.000+/-0.016  $\chi^2/\text{NDF}$ : 2400.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.323+/-0.020  $\chi^2/\text{NDF}$ : 3.3/2

-0.000+/-0.016  $\chi^2/\text{NDF}$ : 2400.0/4

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -80.993+/-1.987  $\chi^2/\text{NDF}$ : 1.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

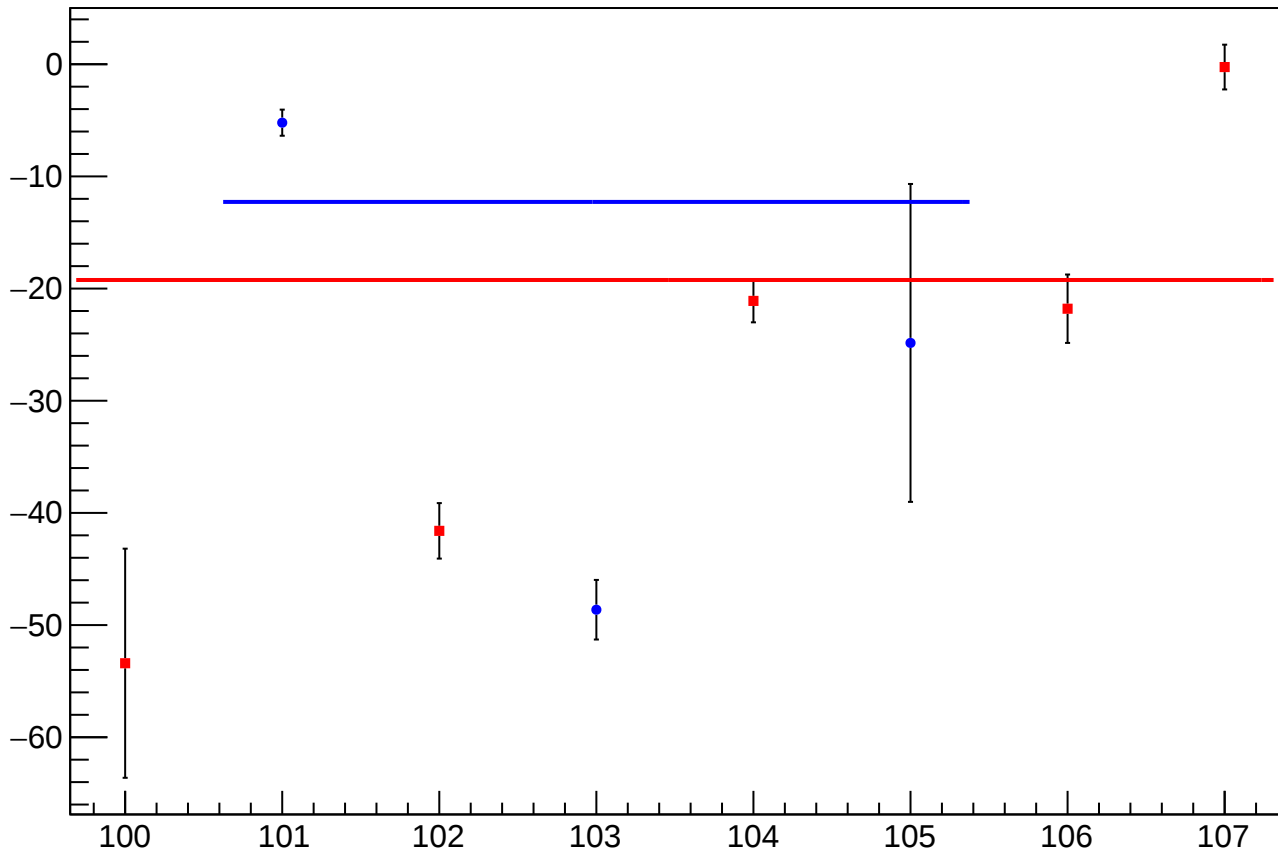
Right Out: -80.191+/-2.038  $\chi^2/\text{NDF}$ : 63.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-80.993+/-1.987  $\chi^2/\text{NDF}$ : 1.8/2

-80.191+/-2.038  $\chi^2/\text{NDF}$ : 63.8/4

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -12.275+/-1.063  $\chi^2/\text{NDF}$ : 224.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

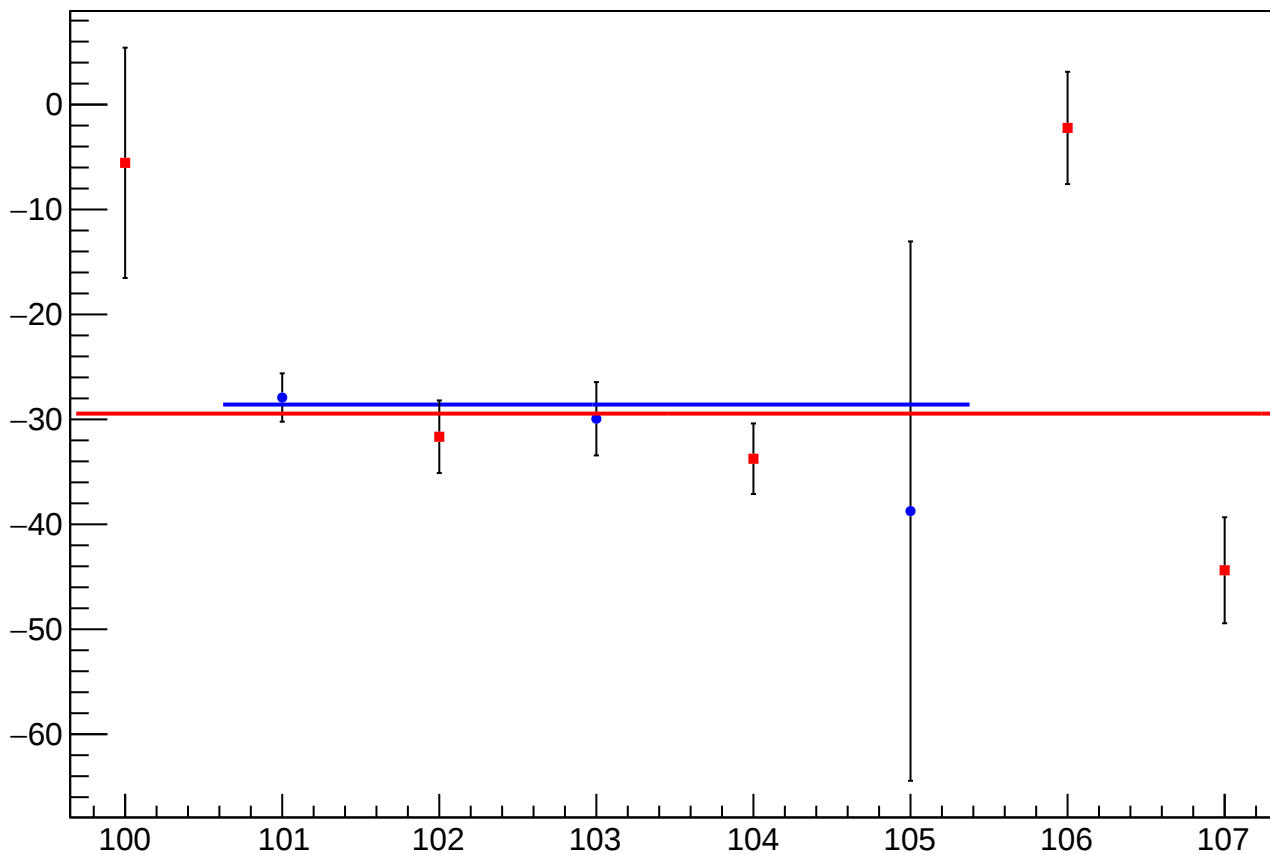
-12.275+/-1.063  $\chi^2/\text{NDF}$ : 224.9/2

Right Out: -19.235+/-1.114  $\chi^2/\text{NDF}$ : 185.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-19.235+/-1.114  $\chi^2/\text{NDF}$ : 185.0/4

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -28.585+/-1.917  $\chi^2/\text{NDF}$ : 0.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

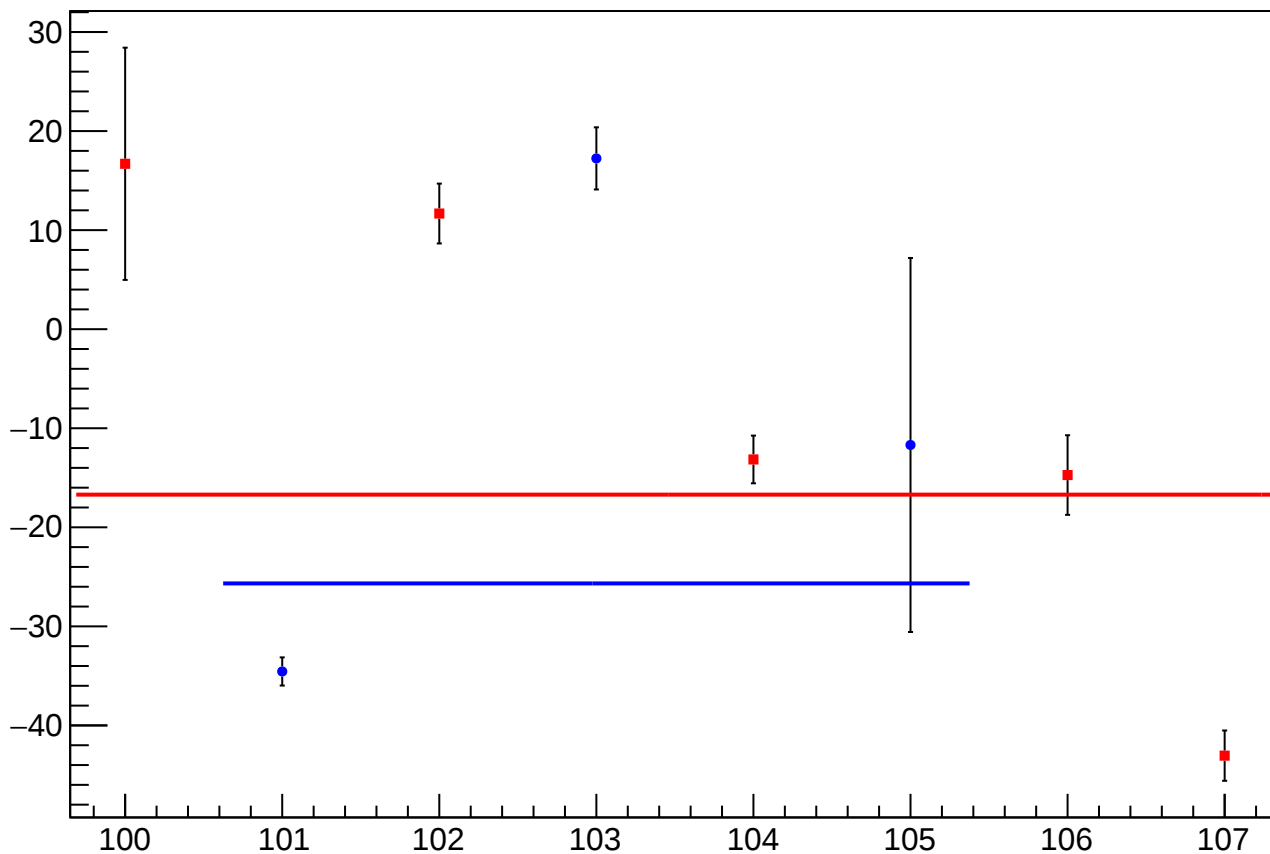
Right Out: -29.449+/-1.982  $\chi^2/\text{NDF}$ : 41.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-28.585+/-1.917  $\chi^2/\text{NDF}$ : 0.4/2

-29.449+/-1.982  $\chi^2/\text{NDF}$ : 41.4/4

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -25.665+/-1.292  $\chi^2/\text{NDF}$ : 226.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

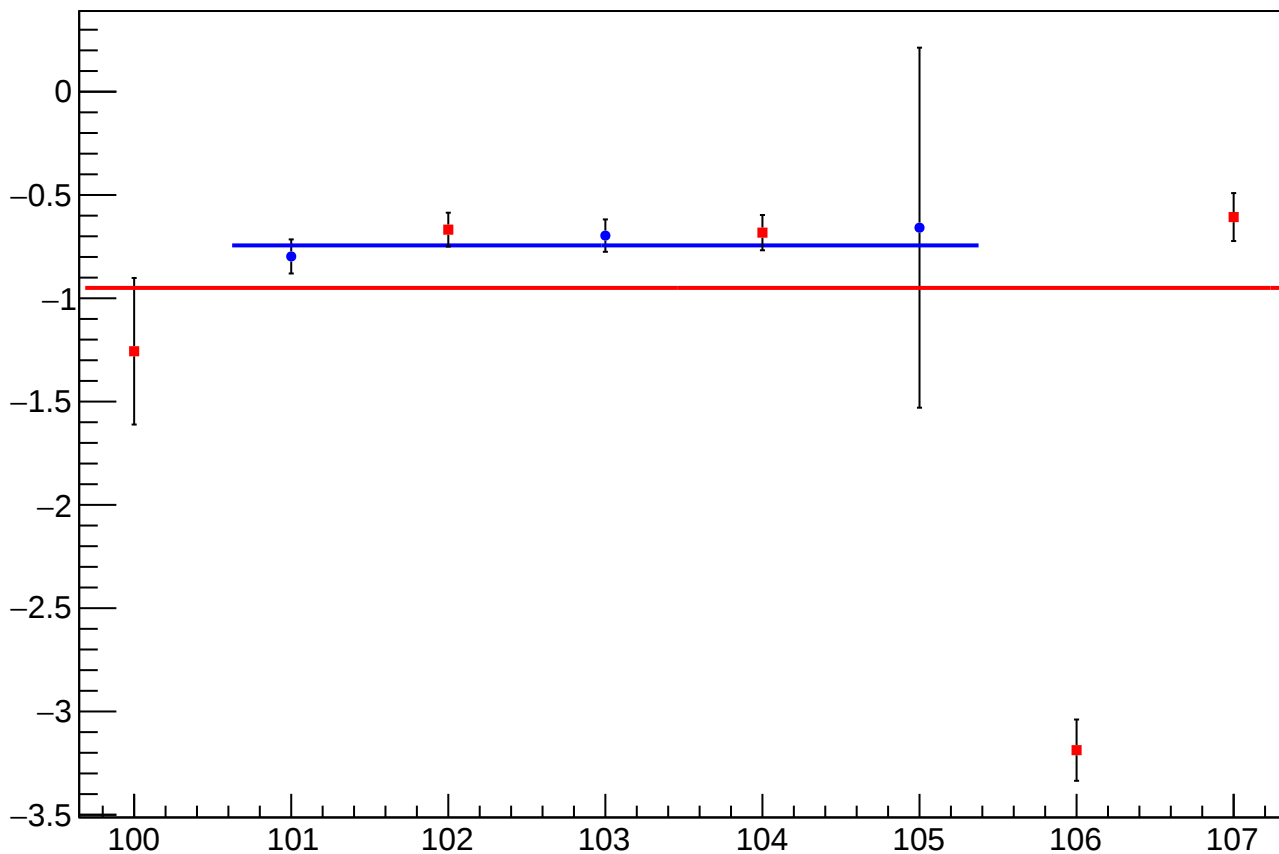
Right Out: -16.702+/-1.405  $\chi^2/\text{NDF}$ : 206.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-25.665+/-1.292  $\chi^2/\text{NDF}$ : 226.6/2

-16.702+/-1.405  $\chi^2/\text{NDF}$ : 206.5/4

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs slug



Right In: -0.744+/-0.057  $\chi^2/\text{NDF}$ : 0.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

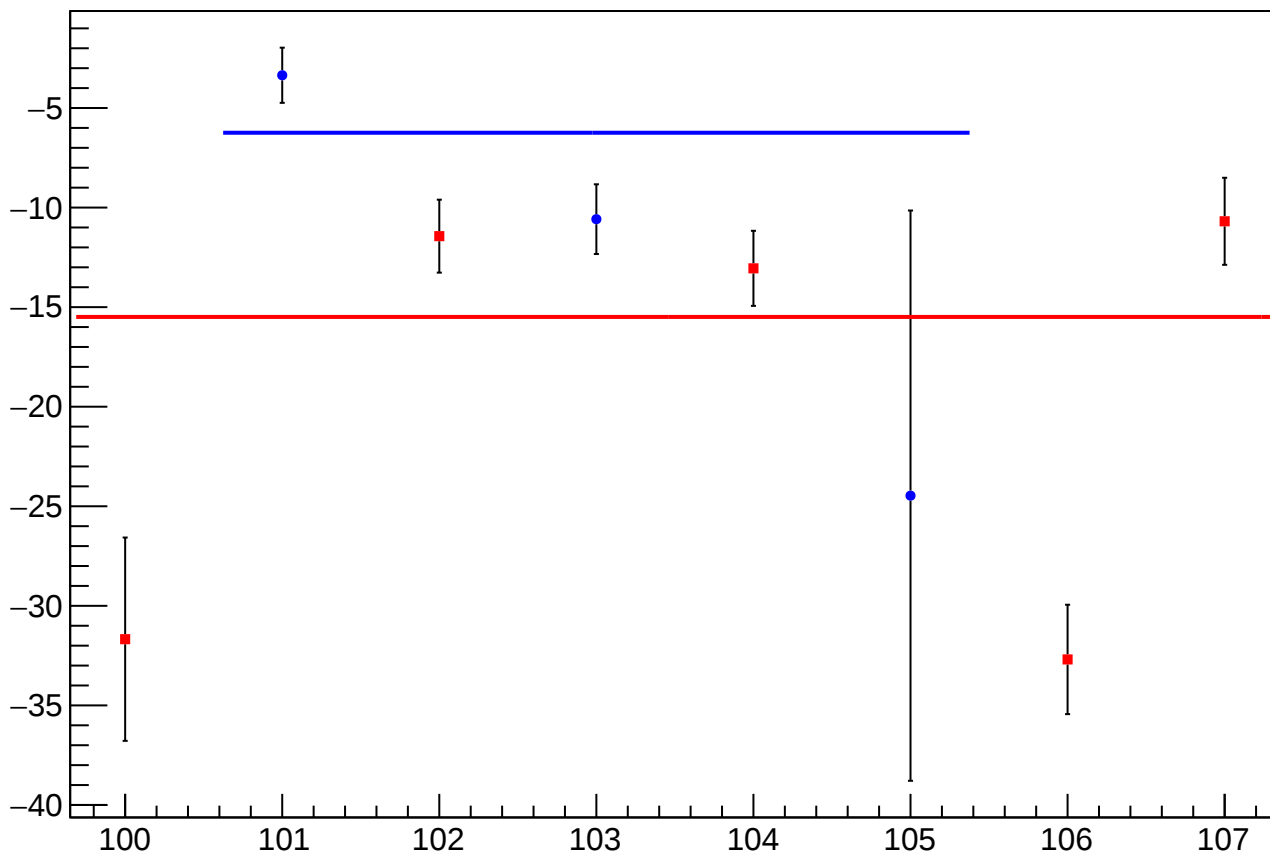
Right Out: -0.950+/-0.049  $\chi^2/\text{NDF}$ : 258.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.744+/-0.057  $\chi^2/\text{NDF}$ : 0.8/2

-0.950+/-0.049  $\chi^2/\text{NDF}$ : 258.7/4

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aX\_slope vs slug



Right In: -6.242+/-1.083  $\chi^2$ /NDF: 12.1/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

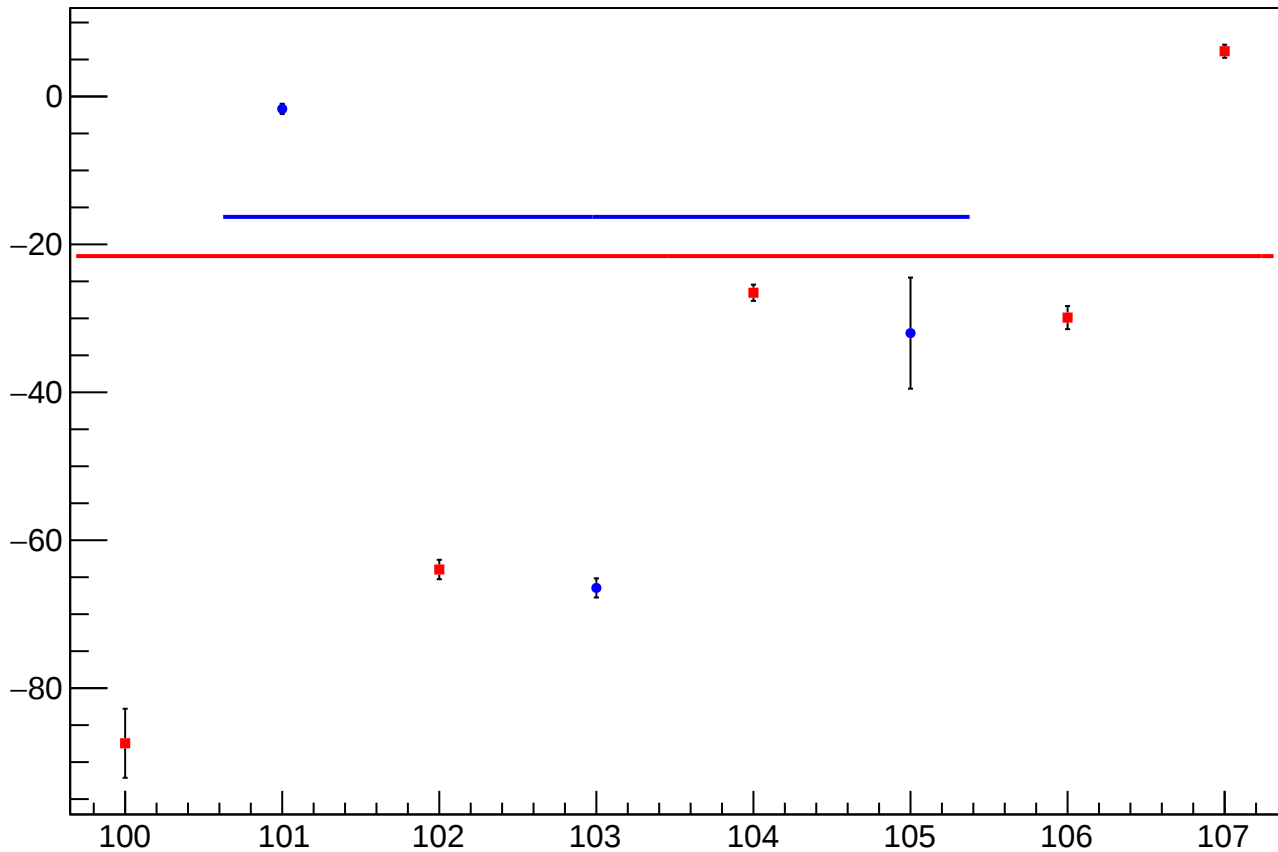
Right Out: -15.492+/-1.021  $\chi^2$ /NDF: 60.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-6.242+/-1.083  $\chi^2$ /NDF: 12.1/2

-15.492+/-1.021  $\chi^2$ /NDF: 60.7/4

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -16.280+/-0.610  $\chi^2/\text{NDF}$ : 1951.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

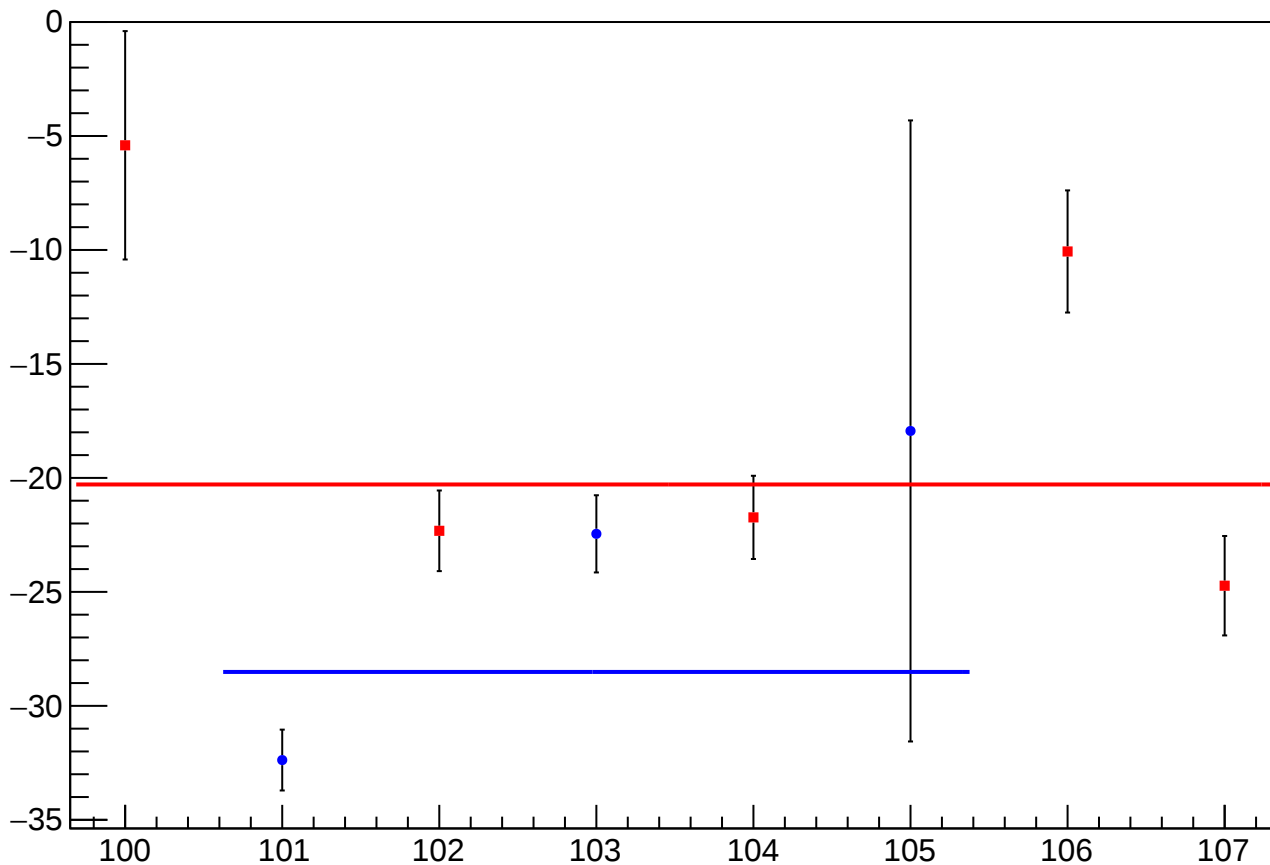
-16.280+/-0.610  $\chi^2/\text{NDF}$ : 1951.8/2

Right Out: -21.581+/-0.565  $\chi^2/\text{NDF}$ : 2266.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-21.581+/-0.565  $\chi^2/\text{NDF}$ : 2266.6/4

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -28.512 $\pm$ 1.045  $\chi^2$ /NDF: 21.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

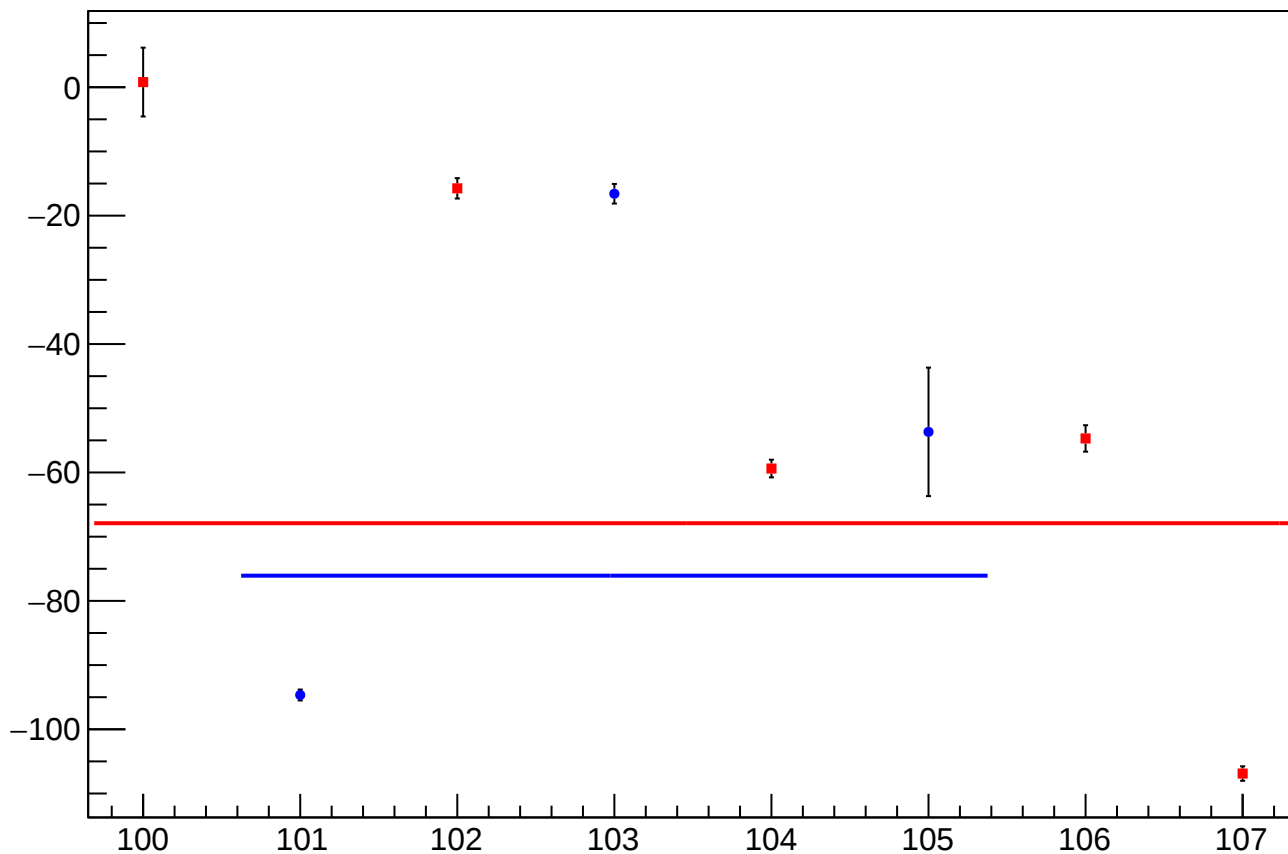
Right Out: -20.288 $\pm$ 0.995  $\chi^2$ /NDF: 29.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-28.512 $\pm$ 1.045  $\chi^2$ /NDF: 21.8/2

-20.288 $\pm$ 0.995  $\chi^2$ /NDF: 29.5/4

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -76.074 $\pm$ 0.740  $\chi^2$ /NDF: 2000.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

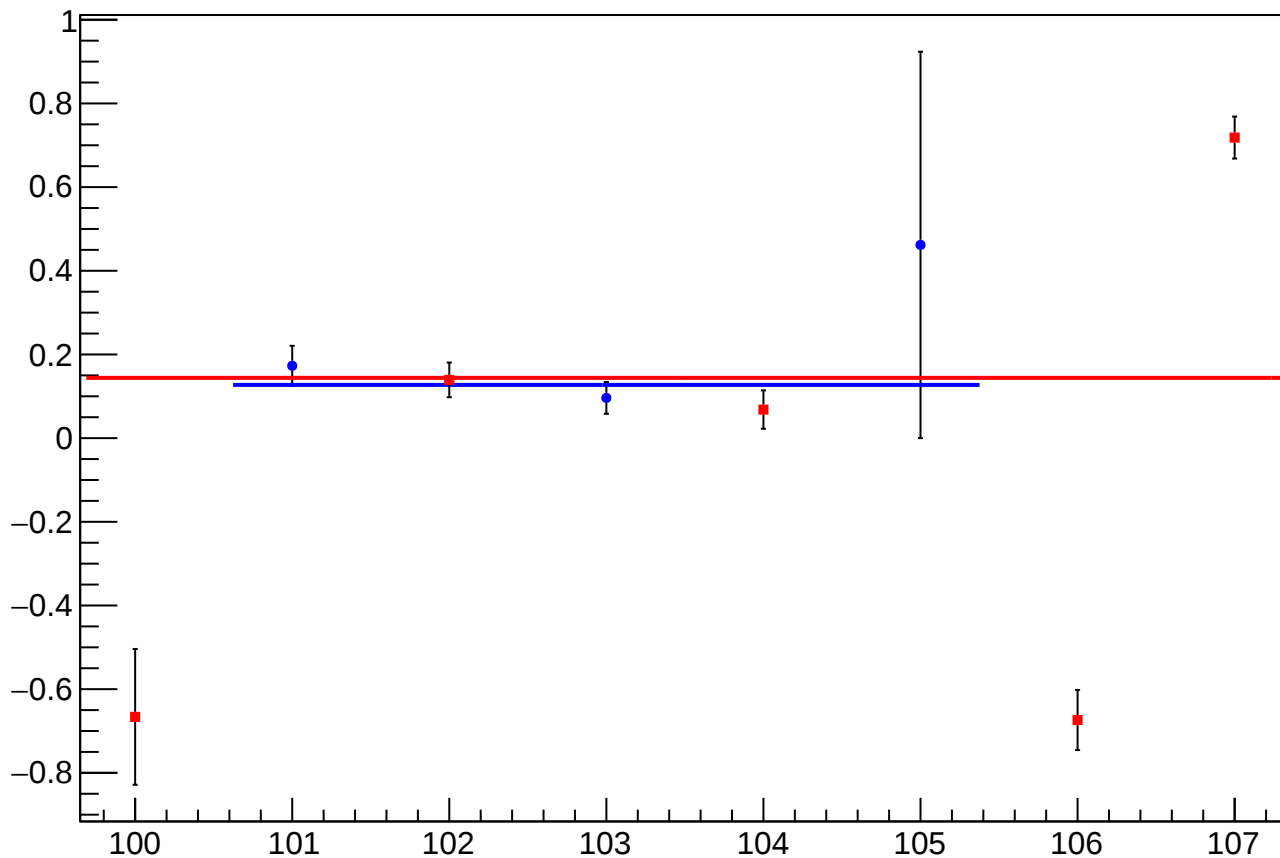
Right Out: -67.903 $\pm$ 0.711  $\chi^2$ /NDF: 2517.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-76.074 $\pm$ 0.740  $\chi^2$ /NDF: 2000.8/2

-67.903 $\pm$ 0.711  $\chi^2$ /NDF: 2517.8/4

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs slug



Right In: 0.127 $\pm$ 0.030  $\chi^2$ /NDF: 2.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

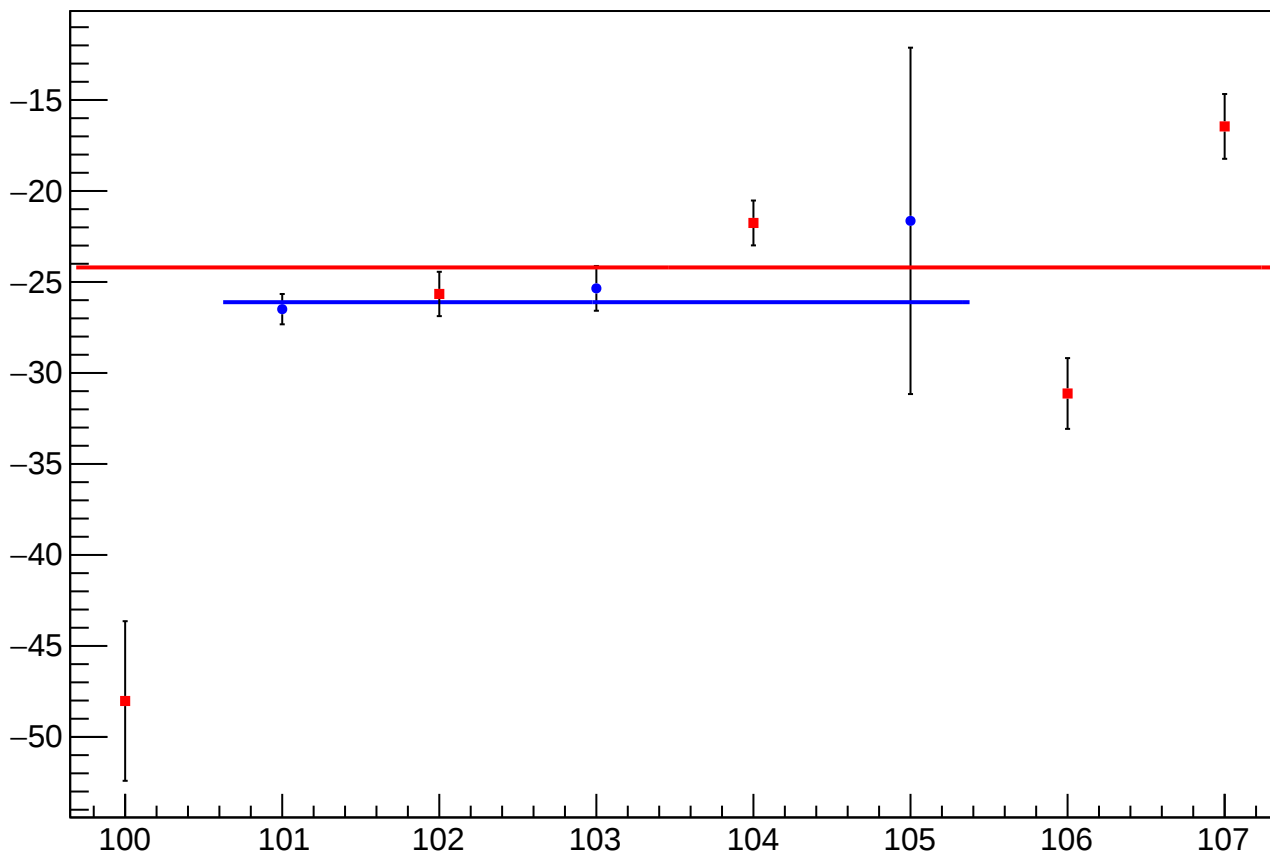
Right Out: 0.144 $\pm$ 0.024  $\chi^2$ /NDF: 288.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.127 $\pm$ 0.030  $\chi^2$ /NDF: 2.1/2

0.144 $\pm$ 0.024  $\chi^2$ /NDF: 288.3/4

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -26.111 $\pm$ 0.688  $\chi^2$ /NDF: 0.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

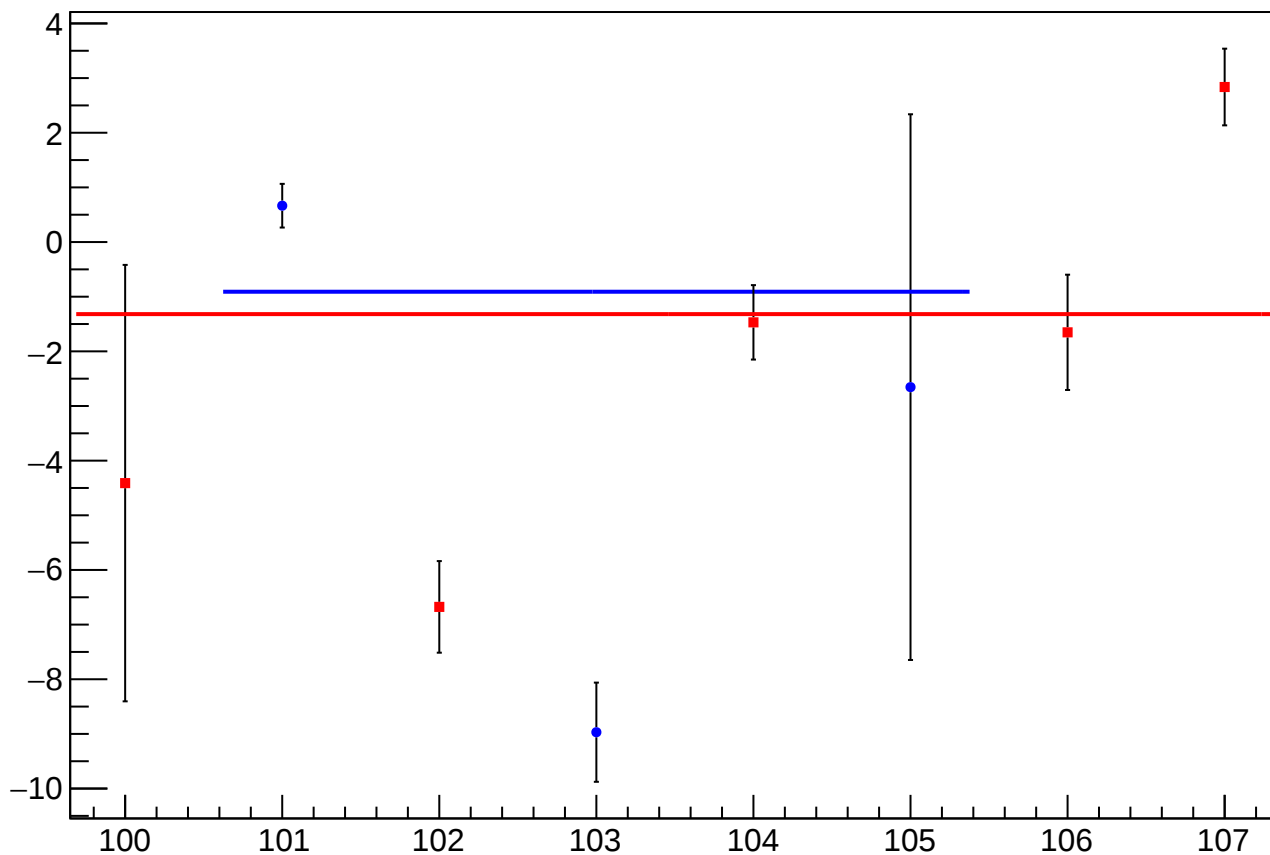
Right Out: -24.201 $\pm$ 0.713  $\chi^2$ /NDF: 66.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-26.111 $\pm$ 0.688  $\chi^2$ /NDF: 0.8/2

-24.201 $\pm$ 0.713  $\chi^2$ /NDF: 66.5/4

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs slug



Right In: -0.909+/-0.365  $\chi^2/\text{NDF}$ : 94.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

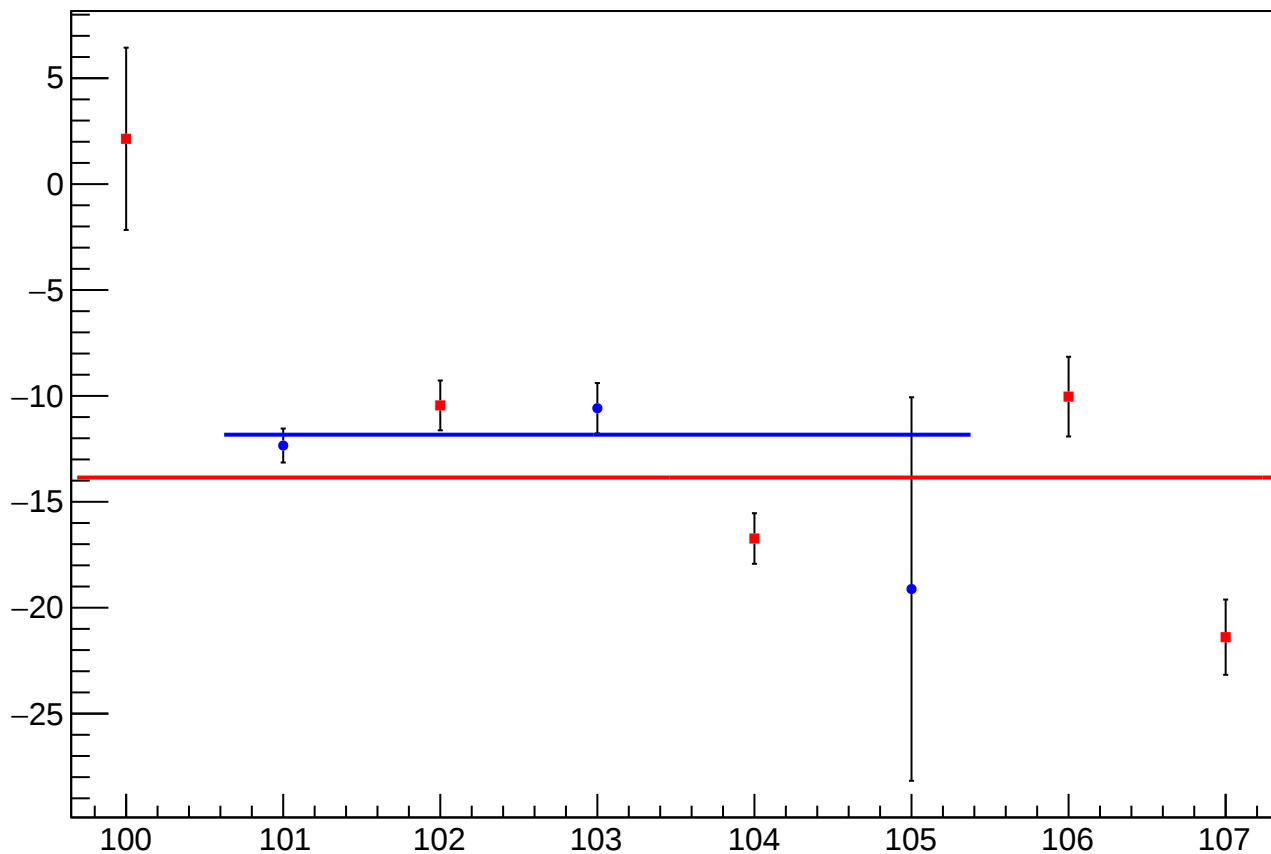
Right Out: -1.319+/-0.390  $\chi^2/\text{NDF}$ : 76.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.909+/-0.365  $\chi^2/\text{NDF}$ : 94.5/2

-1.319+/-0.390  $\chi^2/\text{NDF}$ : 76.7/4

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs slug



Right In:  $-11.832 \pm 0.664$   $\chi^2/\text{NDF}$ : 2.2/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

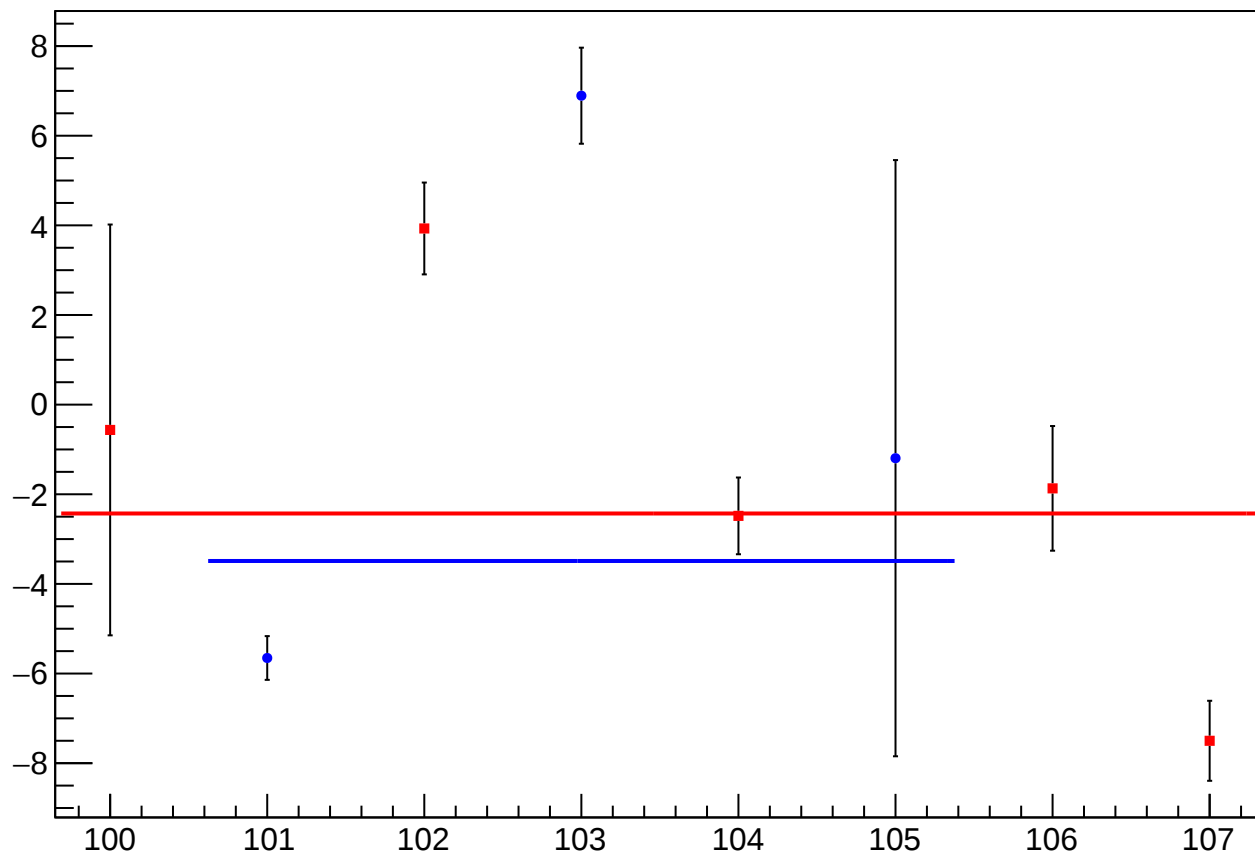
Right Out:  $-13.854 \pm 0.694$   $\chi^2/\text{NDF}$ : 50.1/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-11.832 \pm 0.664$   $\chi^2/\text{NDF}$ : 2.2/2

$-13.854 \pm 0.694$   $\chi^2/\text{NDF}$ : 50.1/4

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs slug



Right In: -3.488+/-0.443  $\chi^2/\text{NDF}$ : 113.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

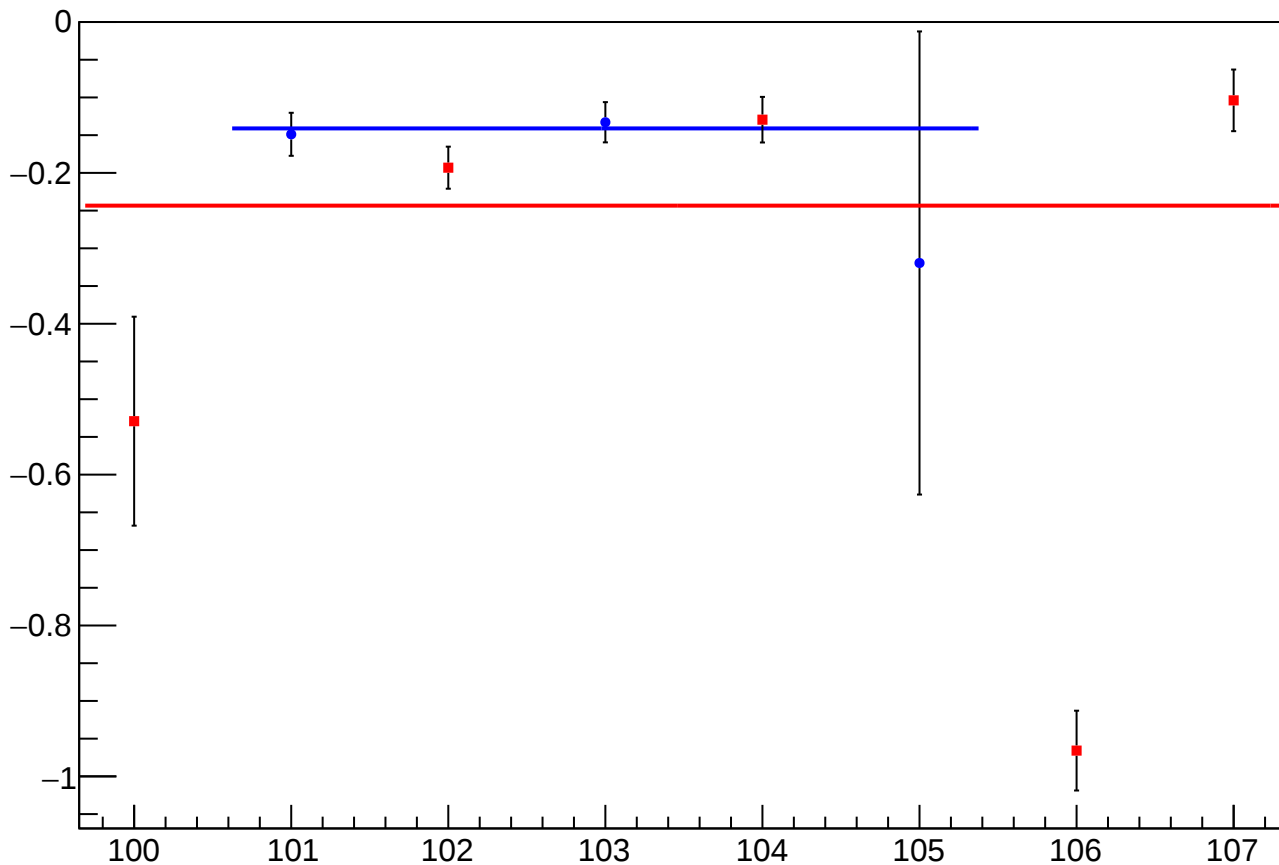
Right Out: -2.429+/-0.492  $\chi^2/\text{NDF}$ : 71.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.488+/-0.443  $\chi^2/\text{NDF}$ : 113.6/2

-2.429+/-0.492  $\chi^2/\text{NDF}$ : 71.1/4

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs slug



Right In: -0.141+/-0.019  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

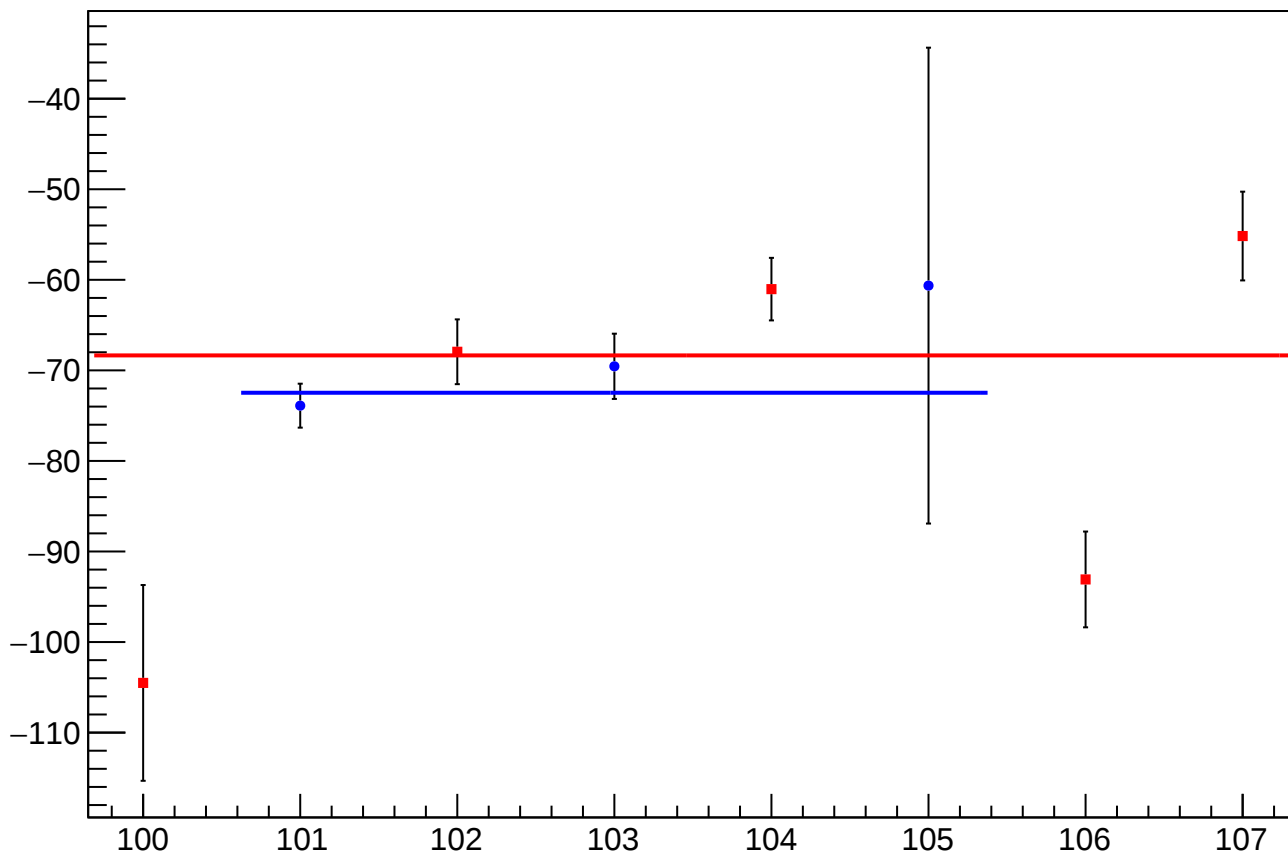
Right Out: -0.243+/-0.017  $\chi^2$ /NDF: 219.9/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.141+/-0.019  $\chi^2$ /NDF: 0.5/2

-0.243+/-0.017  $\chi^2$ /NDF: 219.9/4

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -72.472 $\pm$ 2.007  $\chi^2$ /NDF: 1.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

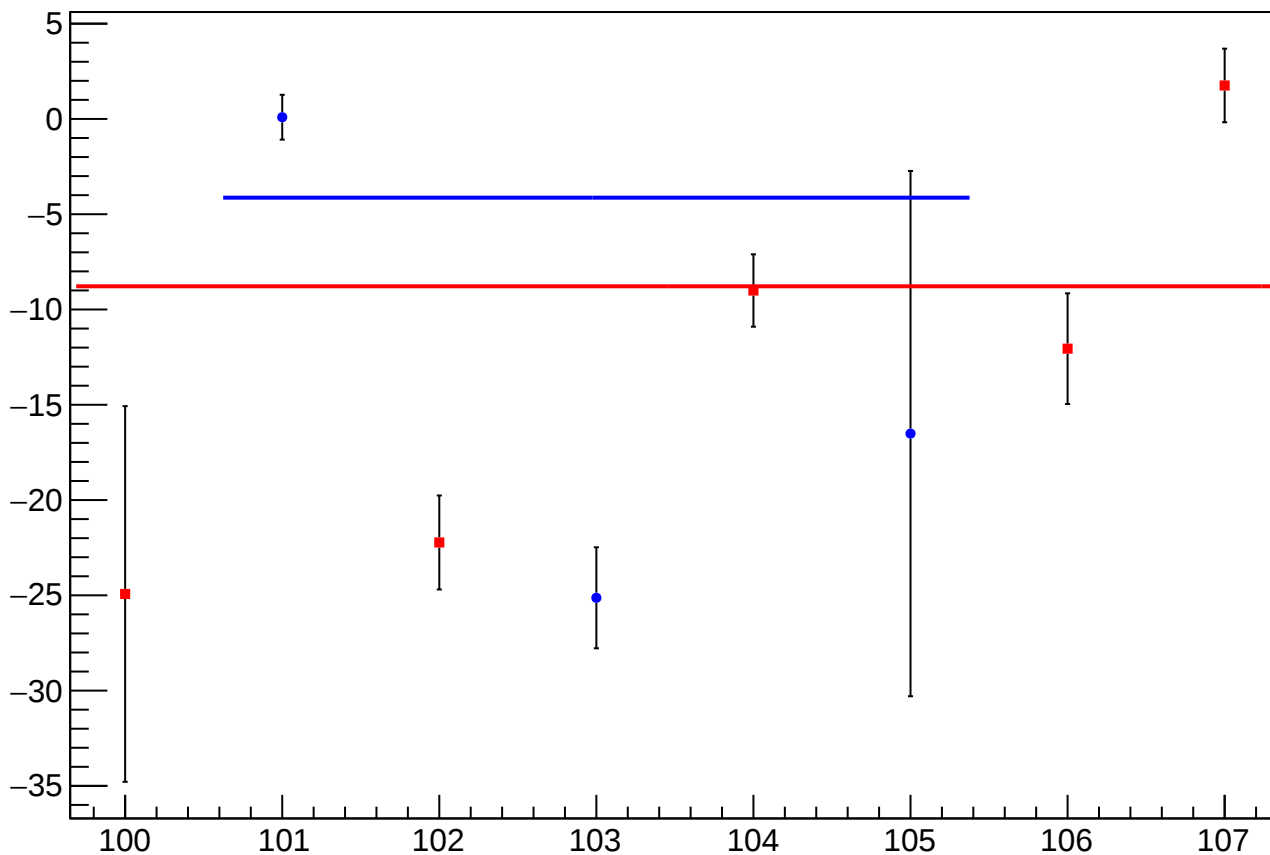
Right Out: -68.348 $\pm$ 2.008  $\chi^2$ /NDF: 44.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-72.472 $\pm$ 2.007  $\chi^2$ /NDF: 1.2/2

-68.348 $\pm$ 2.008  $\chi^2$ /NDF: 44.8/4

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs slug



Right In: -4.131+/-1.072  $\chi^2/\text{NDF}$ : 76.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

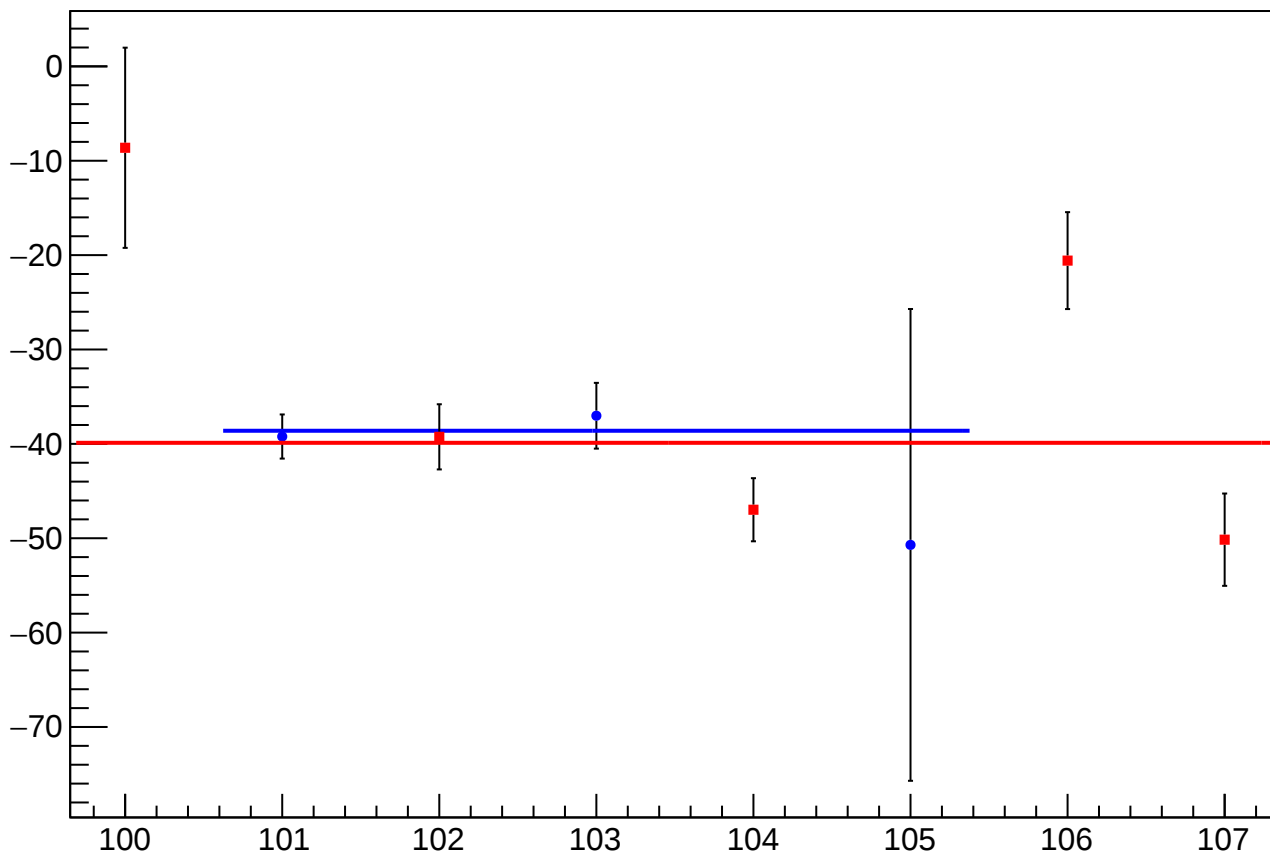
Right Out: -8.783+/-1.092  $\chi^2/\text{NDF}$ : 63.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.131+/-1.072  $\chi^2/\text{NDF}$ : 76.4/2

-8.783+/-1.092  $\chi^2/\text{NDF}$ : 63.5/4

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs slug



Right In: -38.611 $\pm$ 1.936  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

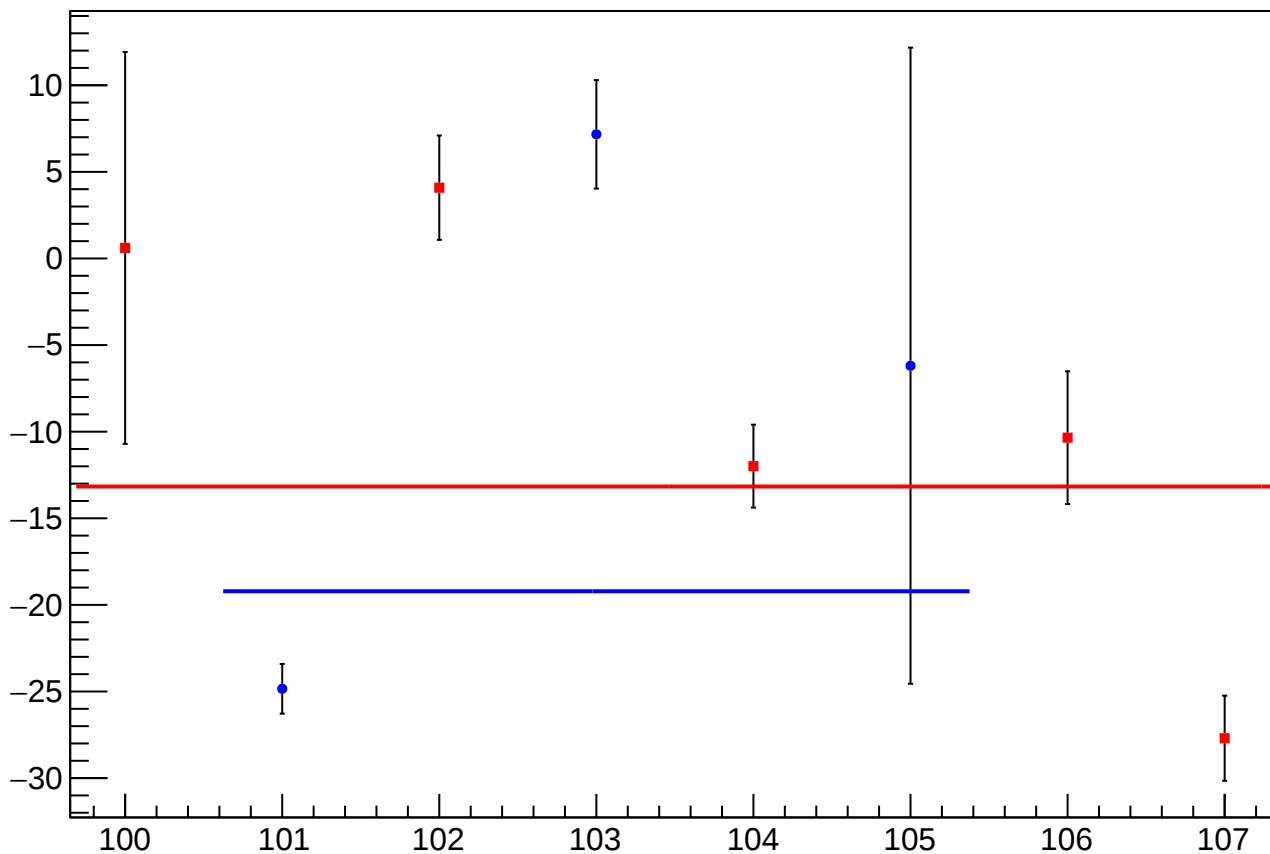
Right Out: -39.889 $\pm$ 1.954  $\chi^2$ /NDF: 31.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-38.611 $\pm$ 1.936  $\chi^2$ /NDF: 0.5/2

-39.889 $\pm$ 1.954  $\chi^2$ /NDF: 31.8/4

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs slug



Right In: -19.213+/-1.302  $\chi^2/\text{NDF}$ : 86.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

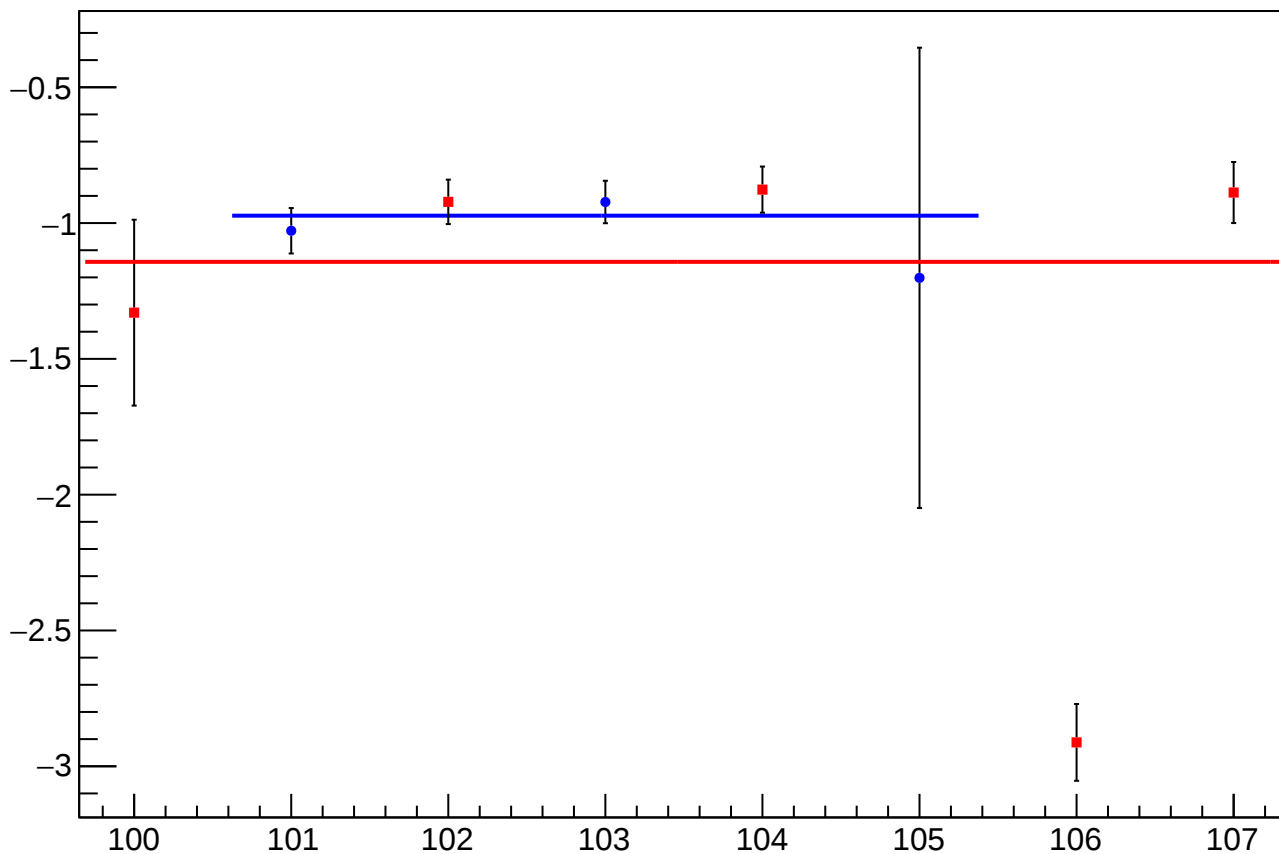
Right Out: -13.165+/-1.378  $\chi^2/\text{NDF}$ : 70.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-19.213+/-1.302  $\chi^2/\text{NDF}$ : 86.9/2

-13.165+/-1.378  $\chi^2/\text{NDF}$ : 70.0/4

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs slug



Right In:  $-0.973 \pm 0.057$   $\chi^2/\text{NDF}$ : 0.9/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

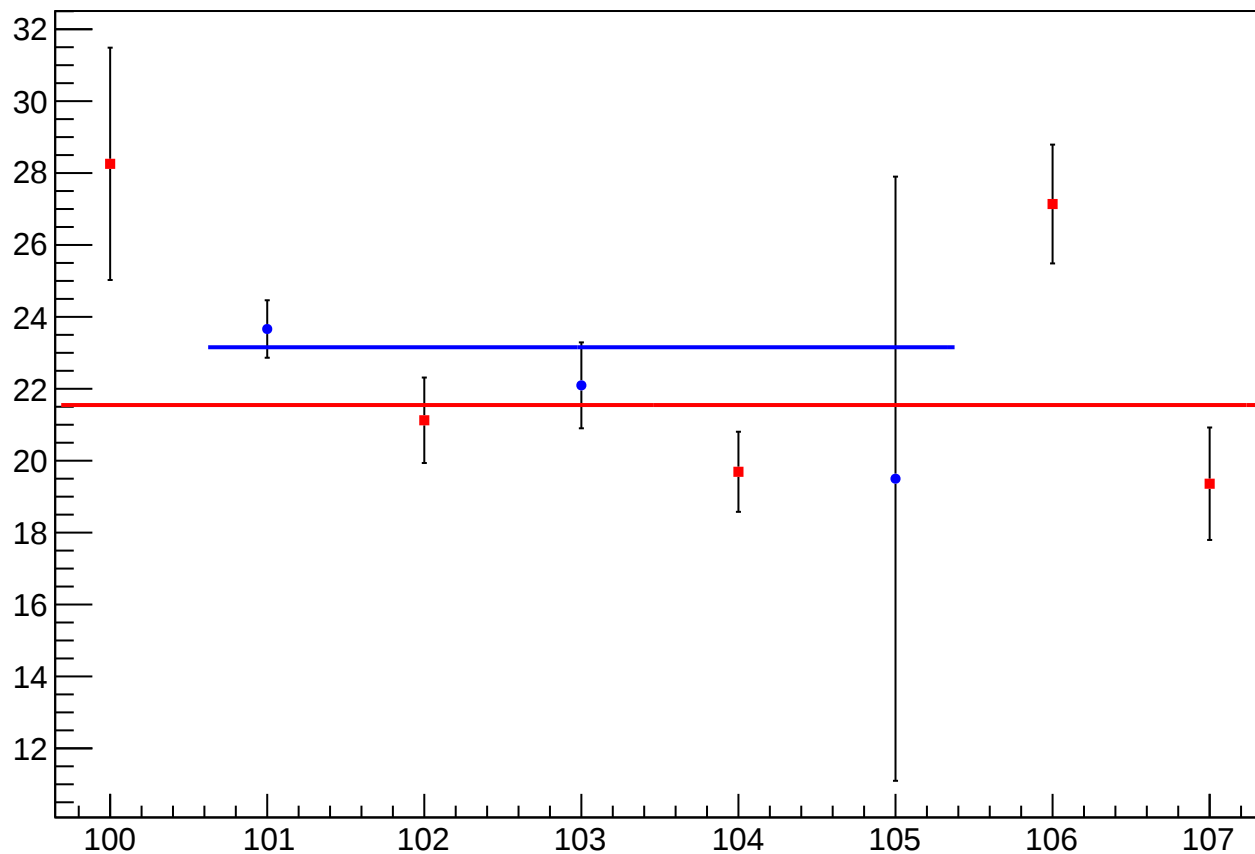
Right Out:  $-1.143 \pm 0.048$   $\chi^2/\text{NDF}$ : 179.0/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.973 \pm 0.057$   $\chi^2/\text{NDF}$ : 0.9/2

$-1.143 \pm 0.048$   $\chi^2/\text{NDF}$ : 179.0/4

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 23.155+/-0.662  $\chi^2$ /NDF: 1.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

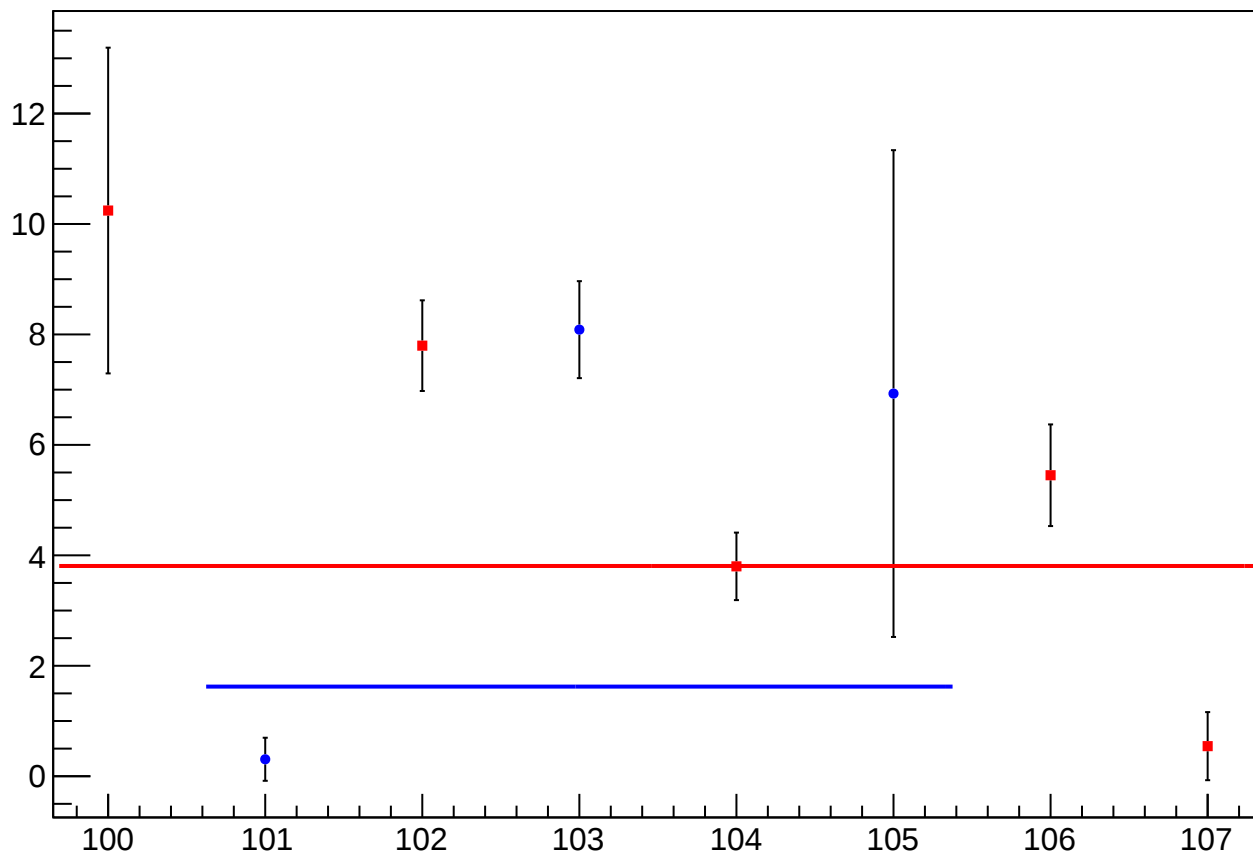
Right Out: 21.548+/-0.648  $\chi^2$ /NDF: 20.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

23.155+/-0.662  $\chi^2$ /NDF: 1.4/2

21.548+/-0.648  $\chi^2$ /NDF: 20.6/4

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 1.623+/-0.355  $\chi^2/\text{NDF}$ : 67.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

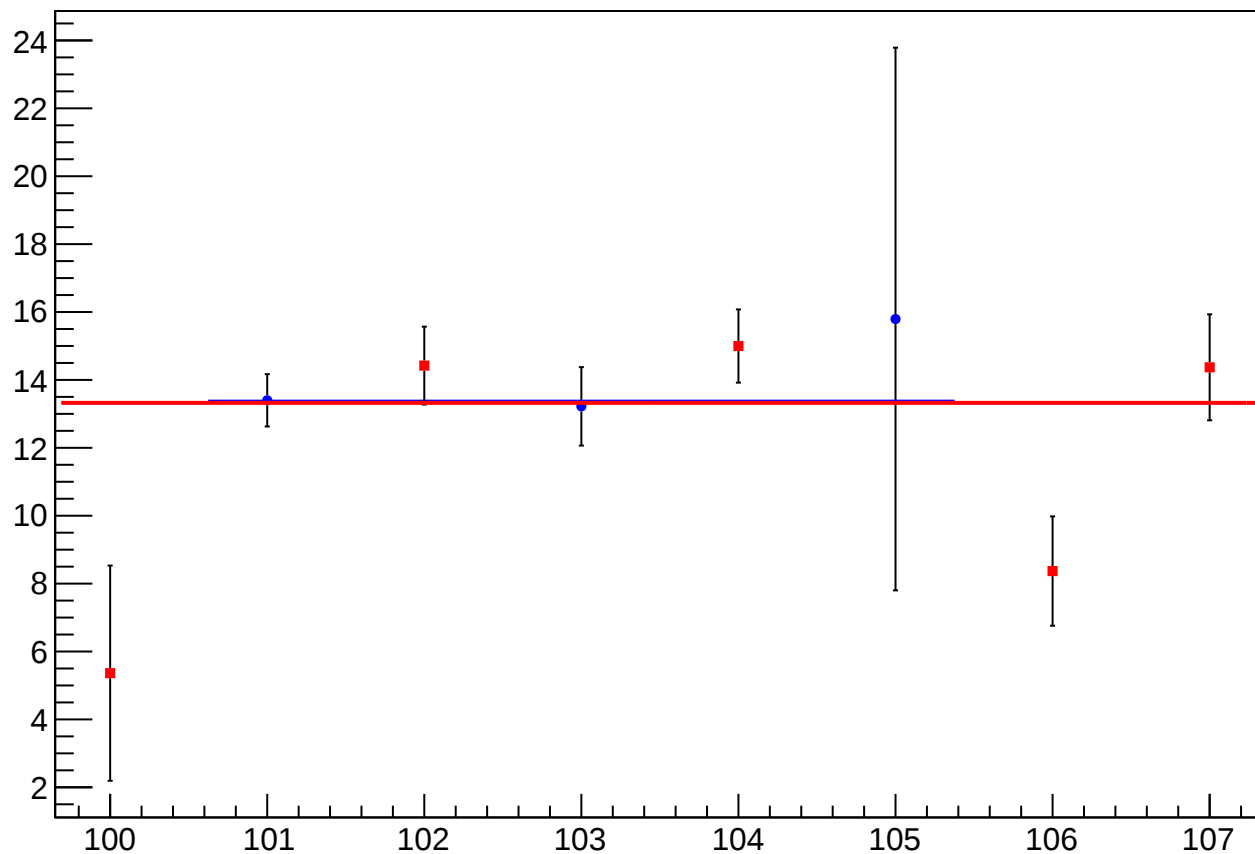
Right Out: 3.807+/-0.352  $\chi^2/\text{NDF}$ : 59.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.623+/-0.355  $\chi^2/\text{NDF}$ : 67.0/2

3.807+/-0.352  $\chi^2/\text{NDF}$ : 59.6/4

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 13.360 $\pm$ 0.639  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

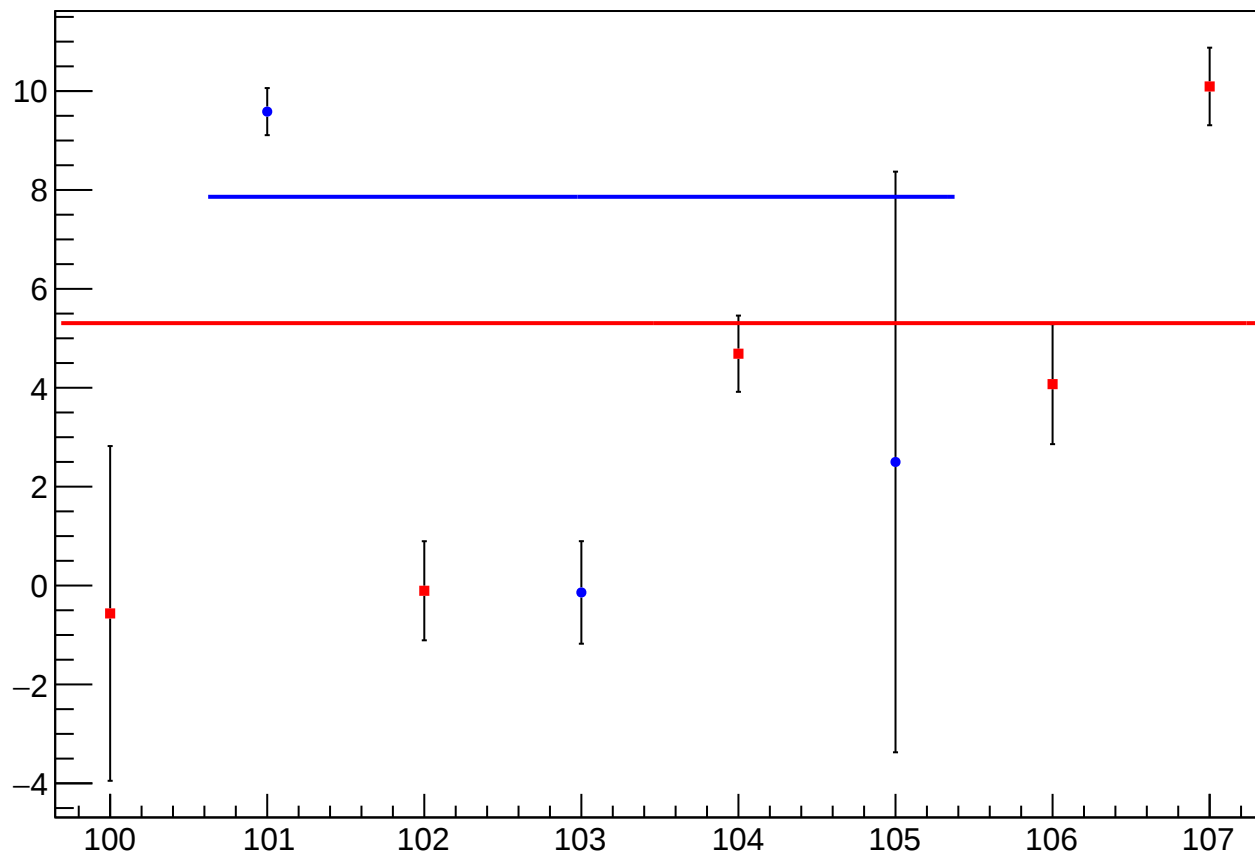
Right Out: 13.324 $\pm$ 0.631  $\chi^2$ /NDF: 19.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

13.360 $\pm$ 0.639  $\chi^2$ /NDF: 0.1/2

13.324 $\pm$ 0.631  $\chi^2$ /NDF: 19.6/4

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 7.862 $\pm$ 0.432  $\chi^2$ /NDF: 73.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

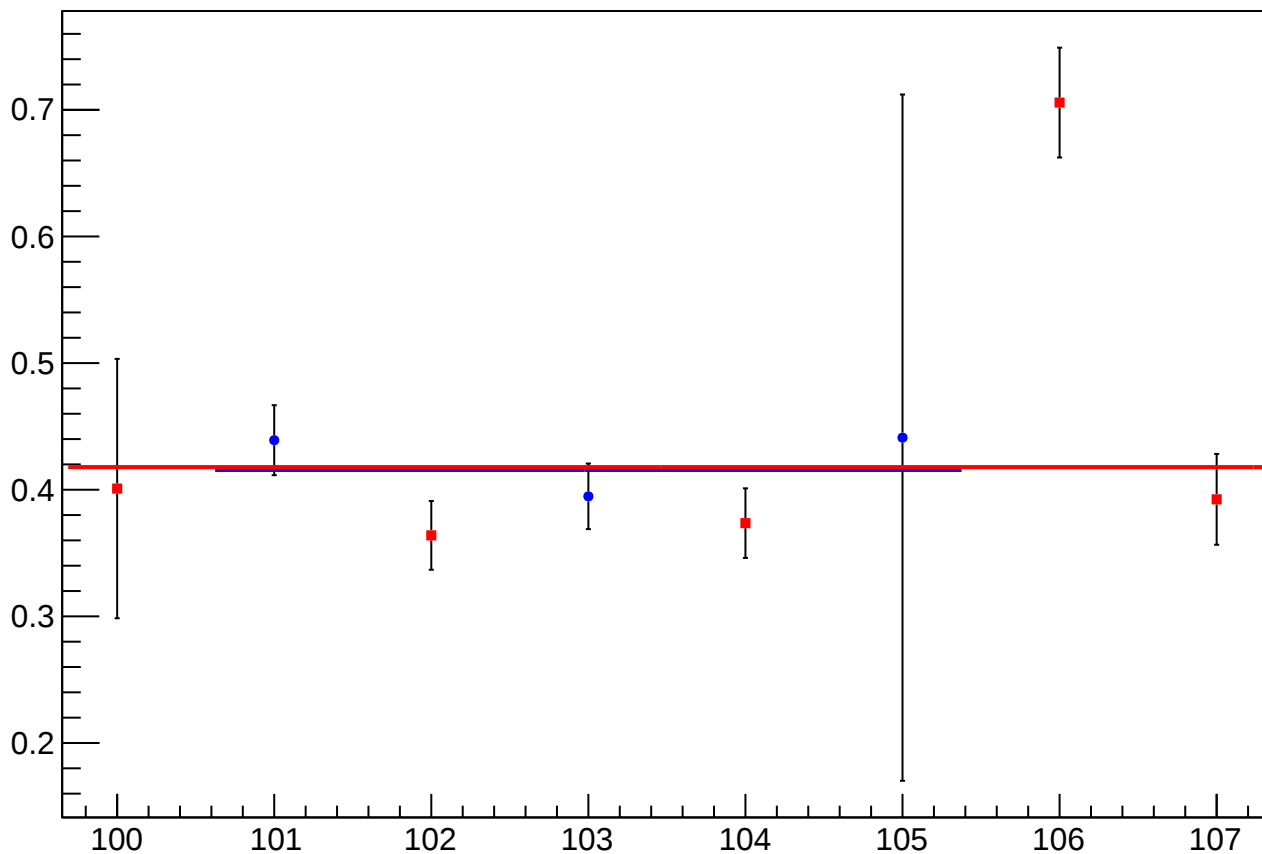
Right Out: 5.307 $\pm$ 0.444  $\chi^2$ /NDF: 71.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

7.862 $\pm$ 0.432  $\chi^2$ /NDF: 73.5/2

5.307 $\pm$ 0.444  $\chi^2$ /NDF: 71.1/4

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs slug



Right In: 0.416+/-0.019  $\chi^2/\text{NDF}$ : 1.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

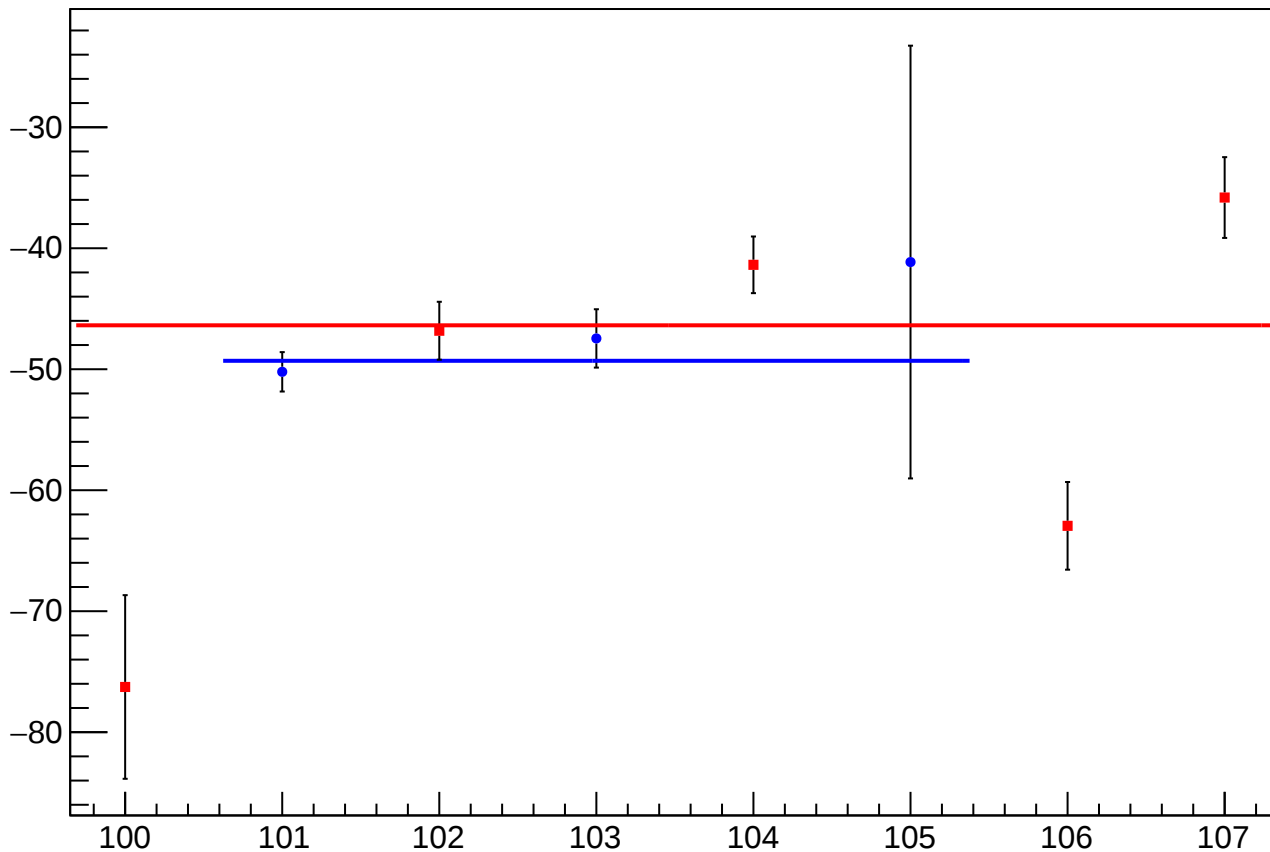
Right Out: 0.418+/-0.016  $\chi^2/\text{NDF}$ : 51.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.416+/-0.019  $\chi^2/\text{NDF}$ : 1.4/2

0.418+/-0.016  $\chi^2/\text{NDF}$ : 51.1/4

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aX\_slope vs slug



Right In:  $-49.303 \pm 1.346$   $\chi^2/\text{NDF}: 1.1/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

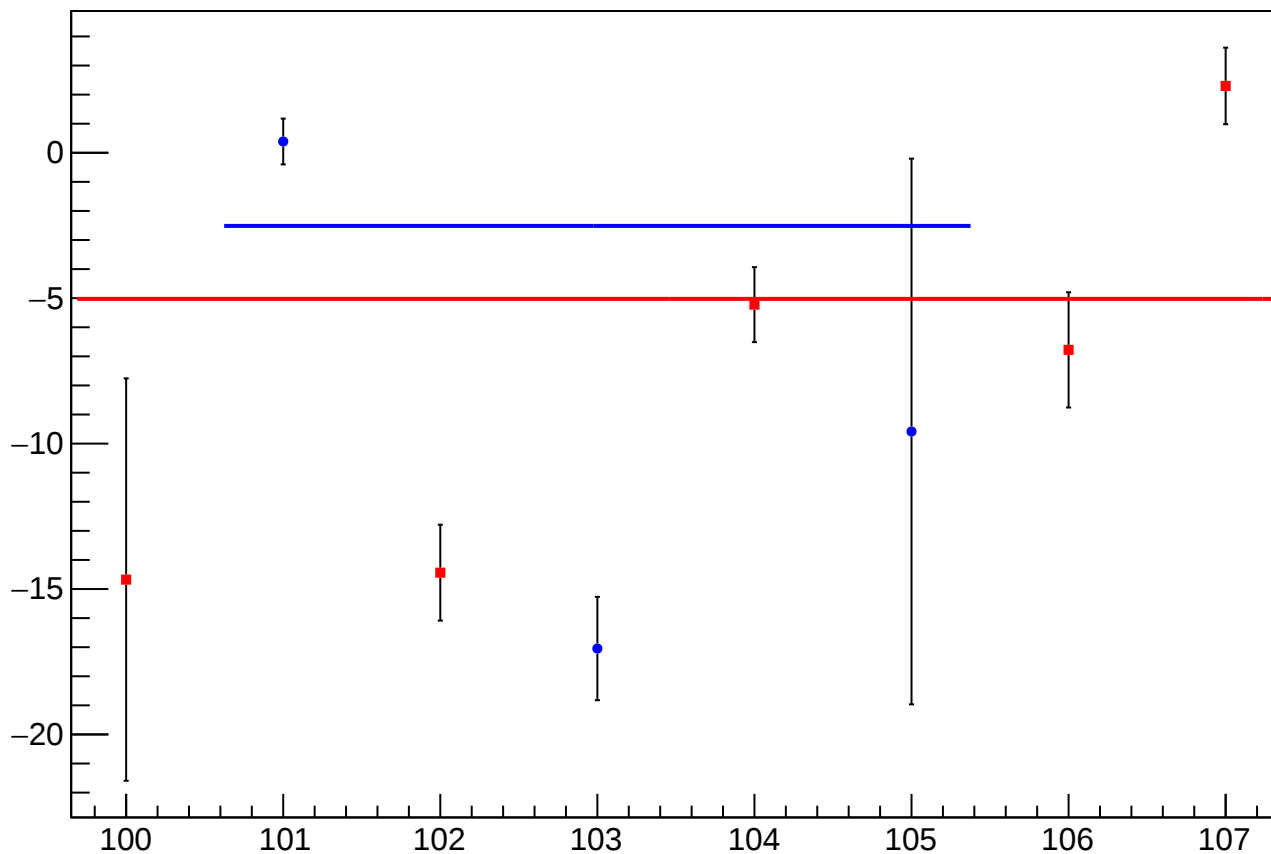
Right Out:  $-46.370 \pm 1.361$   $\chi^2/\text{NDF}: 51.0/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-49.303 \pm 1.346$   $\chi^2/\text{NDF}: 1.1/2$

$-46.370 \pm 1.361$   $\chi^2/\text{NDF}: 51.0/4$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs slug



Right In: -2.515+/-0.717  $\chi^2/\text{NDF}$ : 81.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

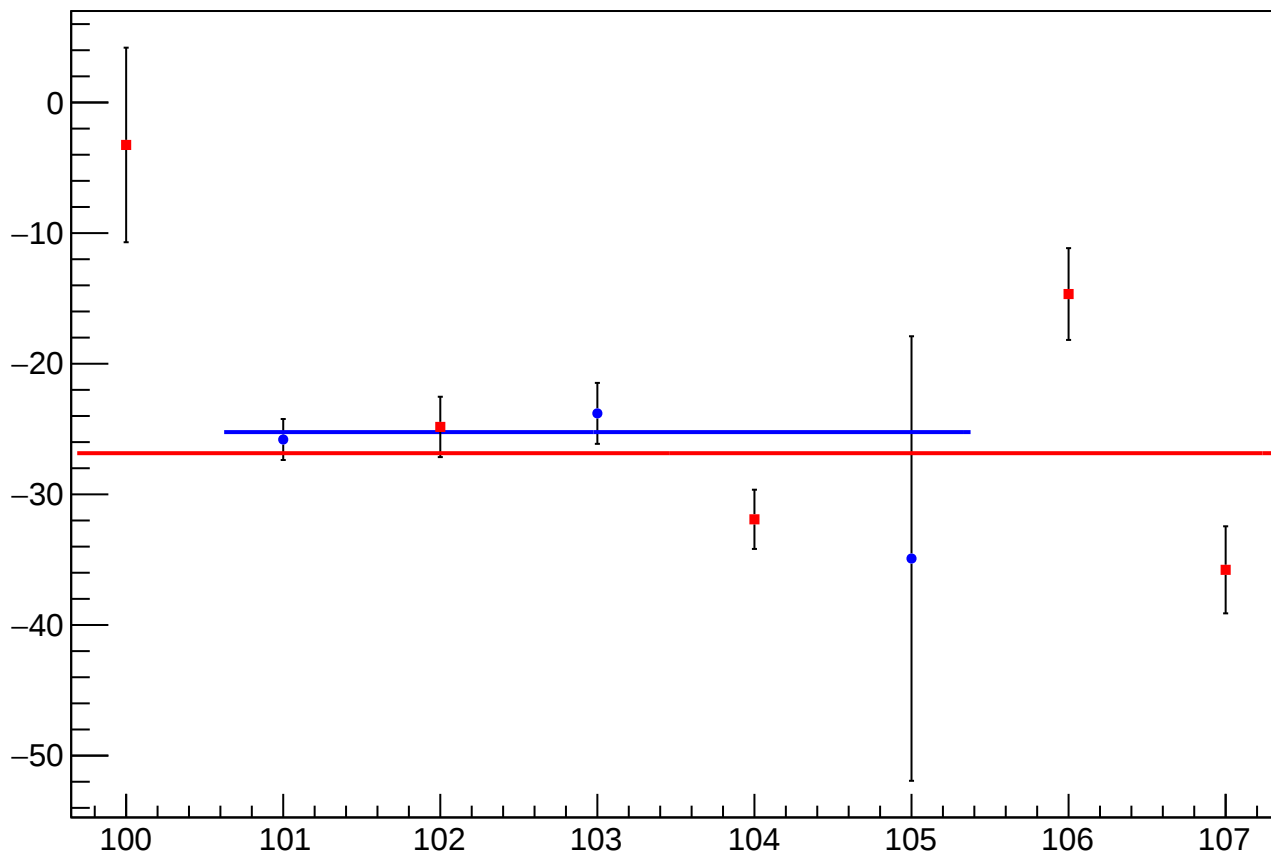
Right Out: -5.024+/-0.741  $\chi^2/\text{NDF}$ : 66.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.515+/-0.717  $\chi^2/\text{NDF}$ : 81.1/2

-5.024+/-0.741  $\chi^2/\text{NDF}$ : 66.3/4

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs slug



Right In:  $-25.234 \pm 1.298$   $\chi^2/\text{NDF}: 0.8/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

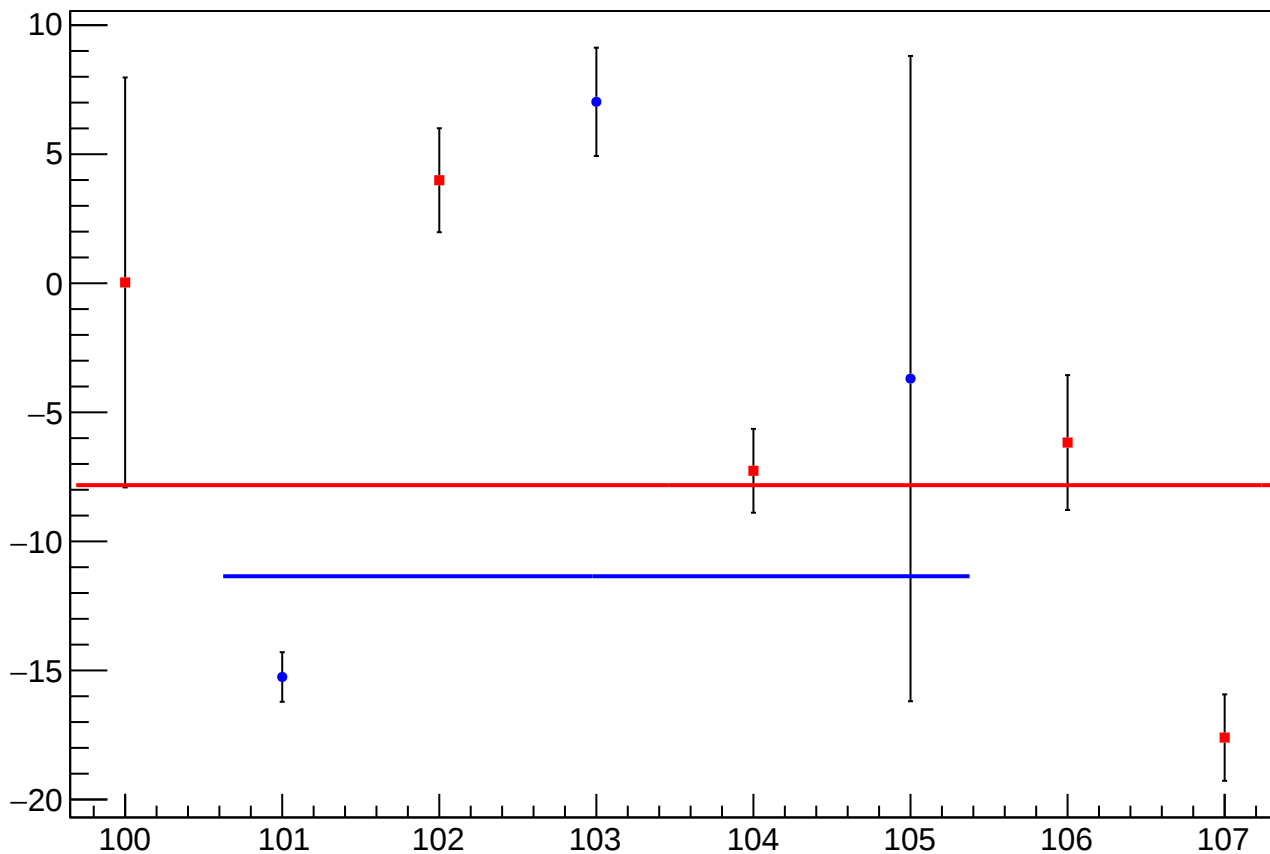
Right Out:  $-26.848 \pm 1.323$   $\chi^2/\text{NDF}: 35.0/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-25.234 \pm 1.298$   $\chi^2/\text{NDF}: 0.8/2$

$-26.848 \pm 1.323$   $\chi^2/\text{NDF}: 35.0/4$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs slug



Right In: -11.351 $\pm$ 0.872  $\chi^2$ /NDF: 93.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

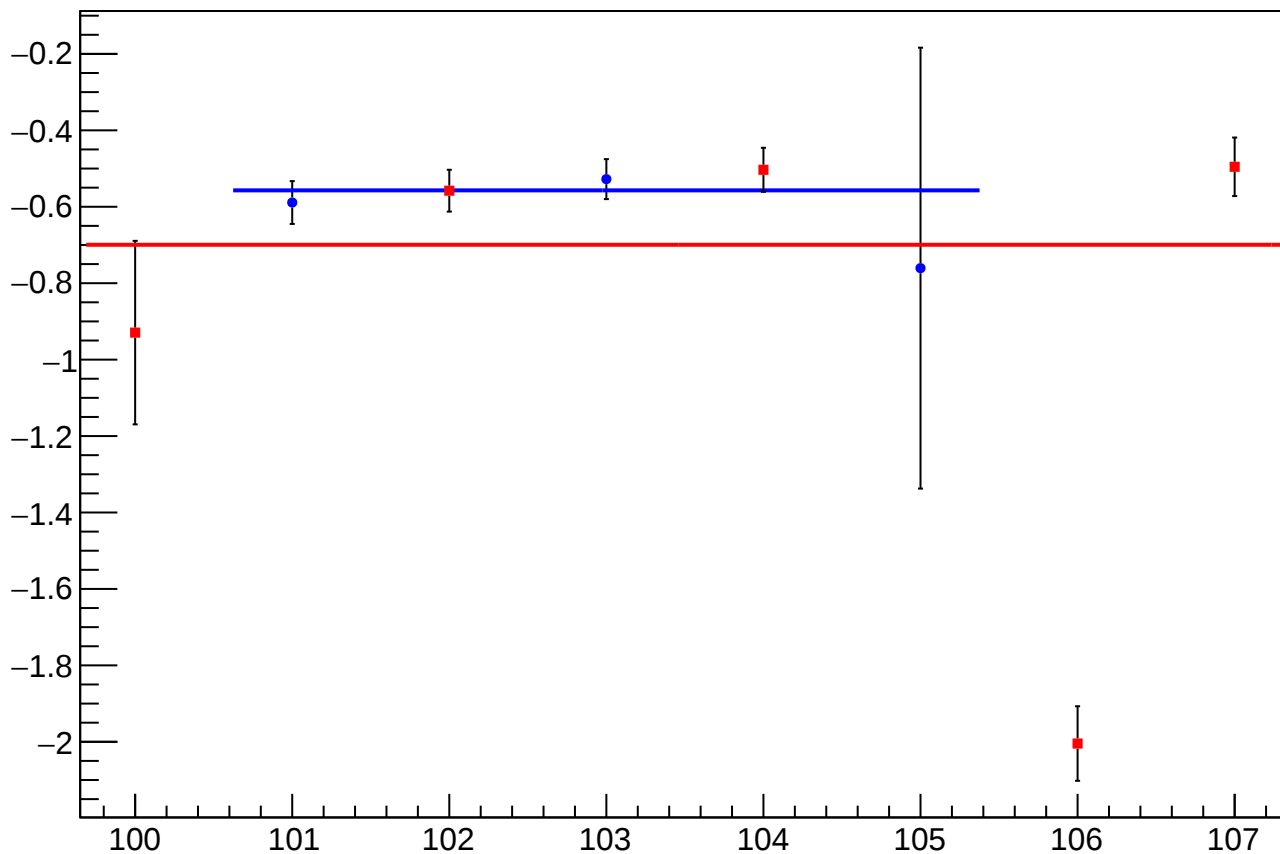
Right Out: -7.822 $\pm$ 0.935  $\chi^2$ /NDF: 70.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-11.351 $\pm$ 0.872  $\chi^2$ /NDF: 93.6/2

-7.822 $\pm$ 0.935  $\chi^2$ /NDF: 70.0/4

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs slug



Right In: -0.557+/-0.038  $\chi^2/\text{NDF}$ : 0.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

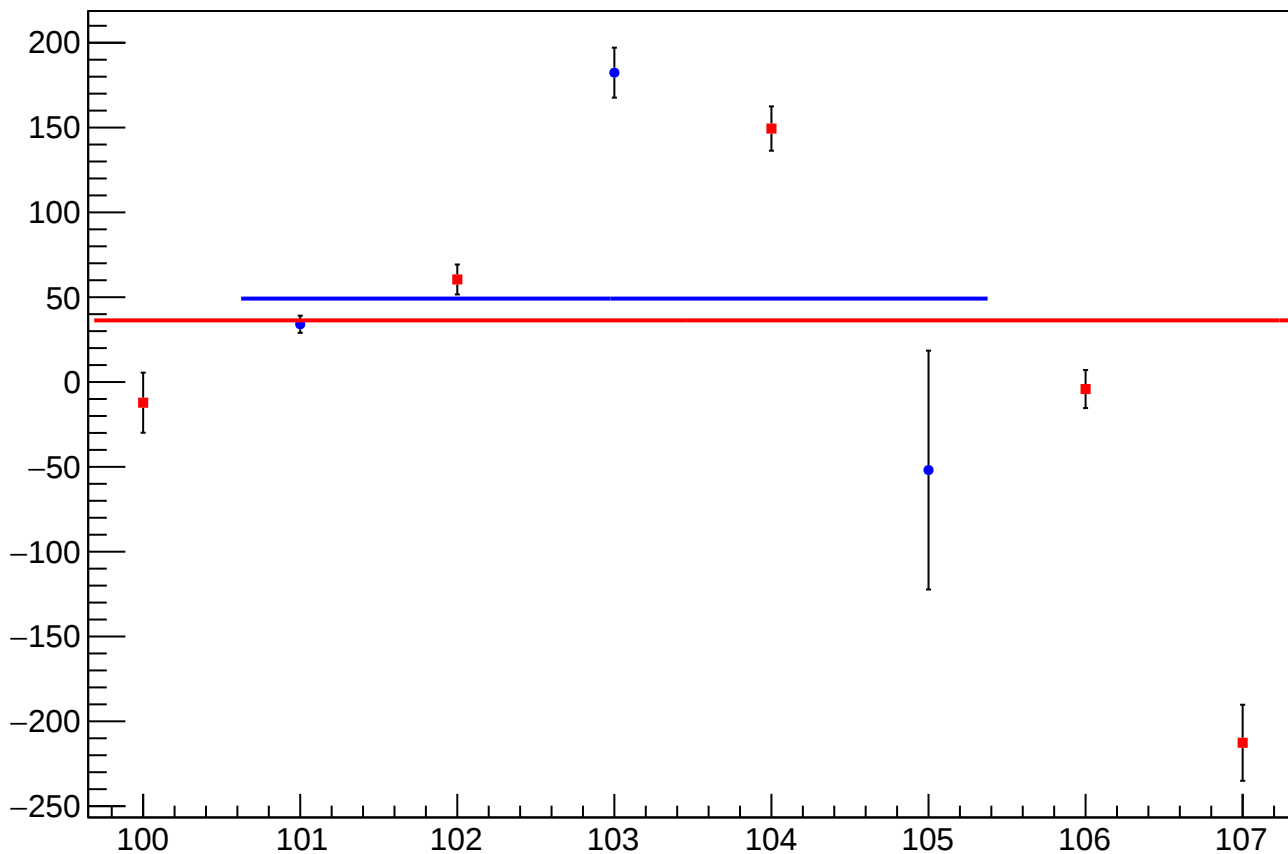
Right Out: -0.699+/-0.033  $\chi^2/\text{NDF}$ : 205.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.557+/-0.038  $\chi^2/\text{NDF}$ : 0.8/2

-0.699+/-0.033  $\chi^2/\text{NDF}$ : 205.4/4

# reg\_asym\_atl1\_diff\_bpm4aX\_slope vs slug



Right In: 49.184+/-4.767  $\chi^2/\text{NDF}$ : 92.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

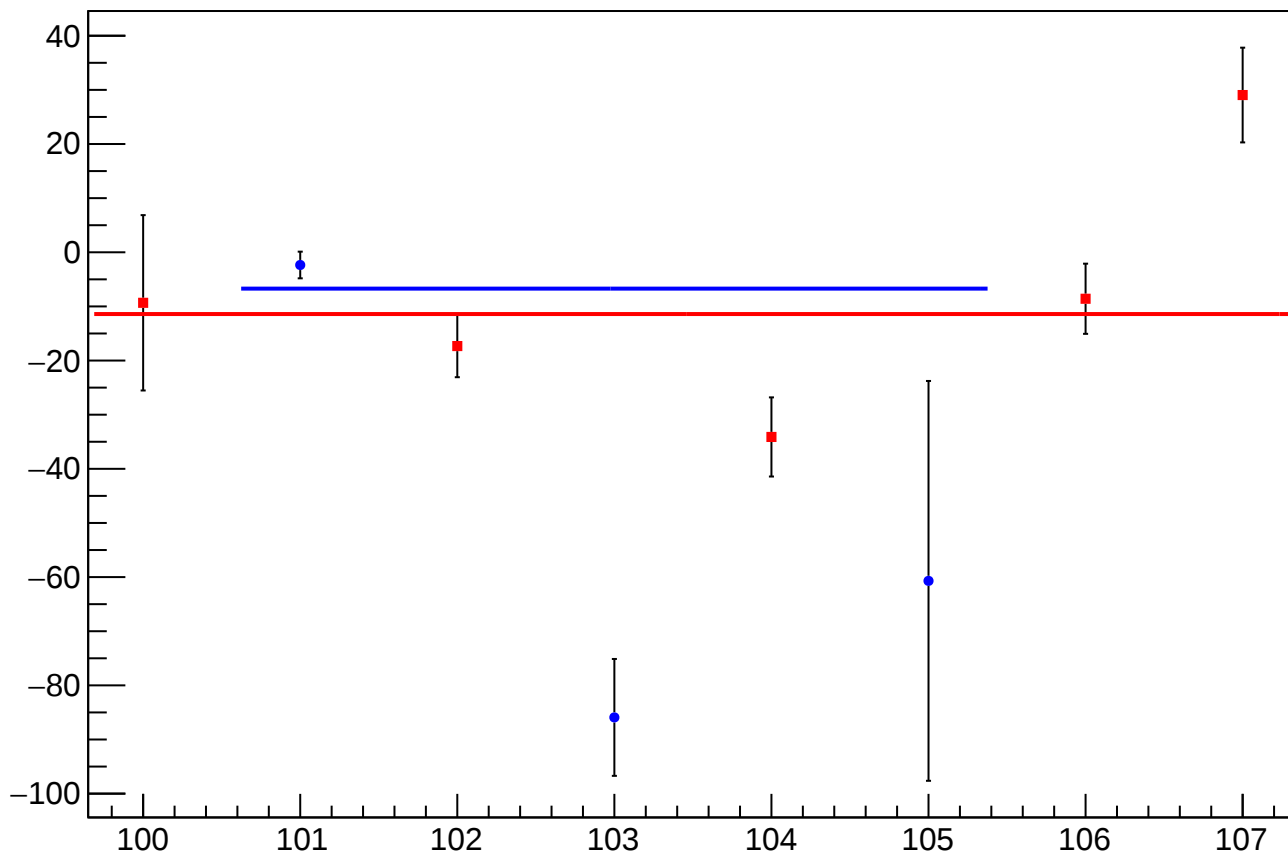
Right Out: 36.341+/-5.607  $\chi^2/\text{NDF}$ : 226.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

49.184+/-4.767  $\chi^2/\text{NDF}$ : 92.7/2

36.341+/-5.607  $\chi^2/\text{NDF}$ : 226.3/4

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs slug



Right In: -6.712 $\pm$ 2.396  $\chi^2$ /NDF: 59.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

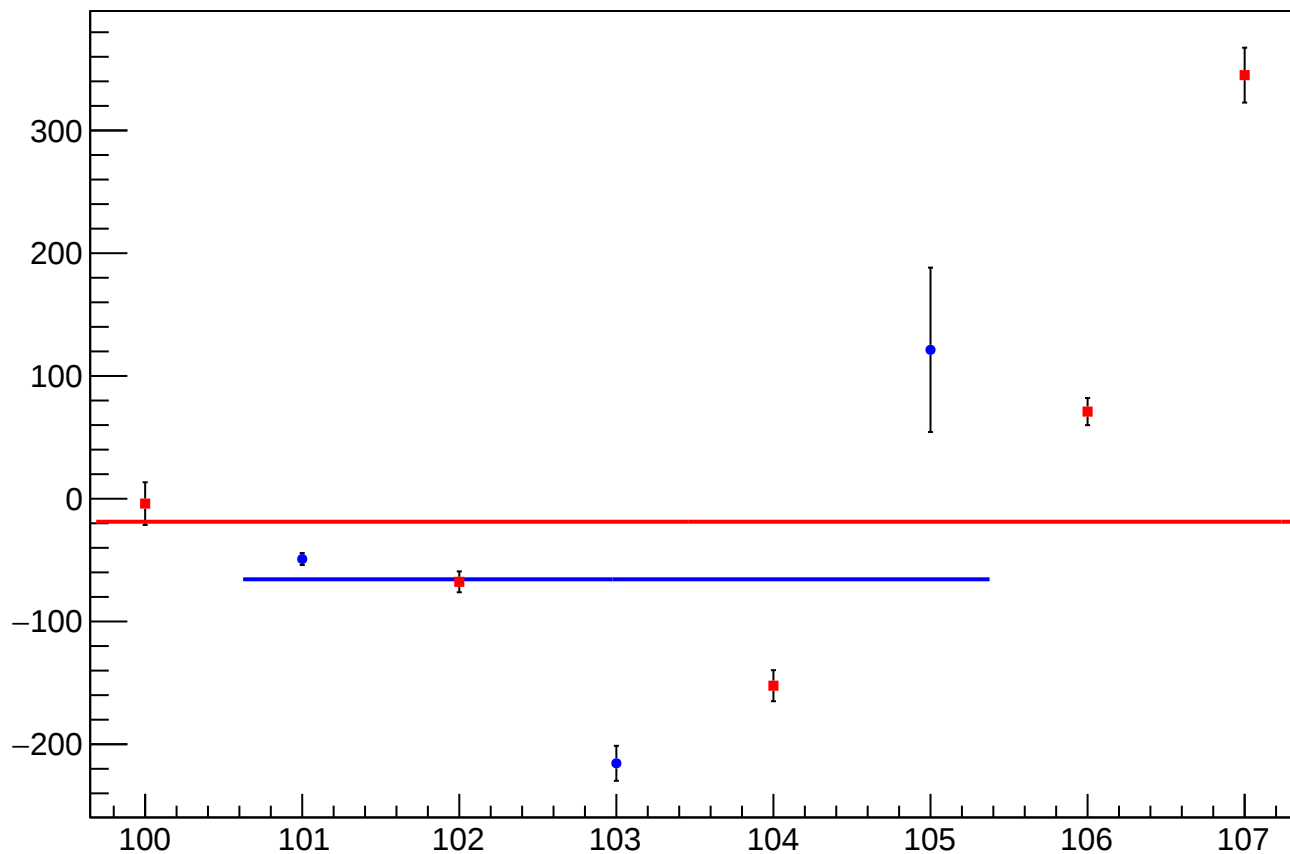
Right Out: -11.408 $\pm$ 3.341  $\chi^2$ /NDF: 32.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-6.712 $\pm$ 2.396  $\chi^2$ /NDF: 59.1/2

-11.408 $\pm$ 3.341  $\chi^2$ /NDF: 32.3/4

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs slug



Right In: -65.624 $\pm$ 4.595  $\chi^2$ /NDF: 129.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

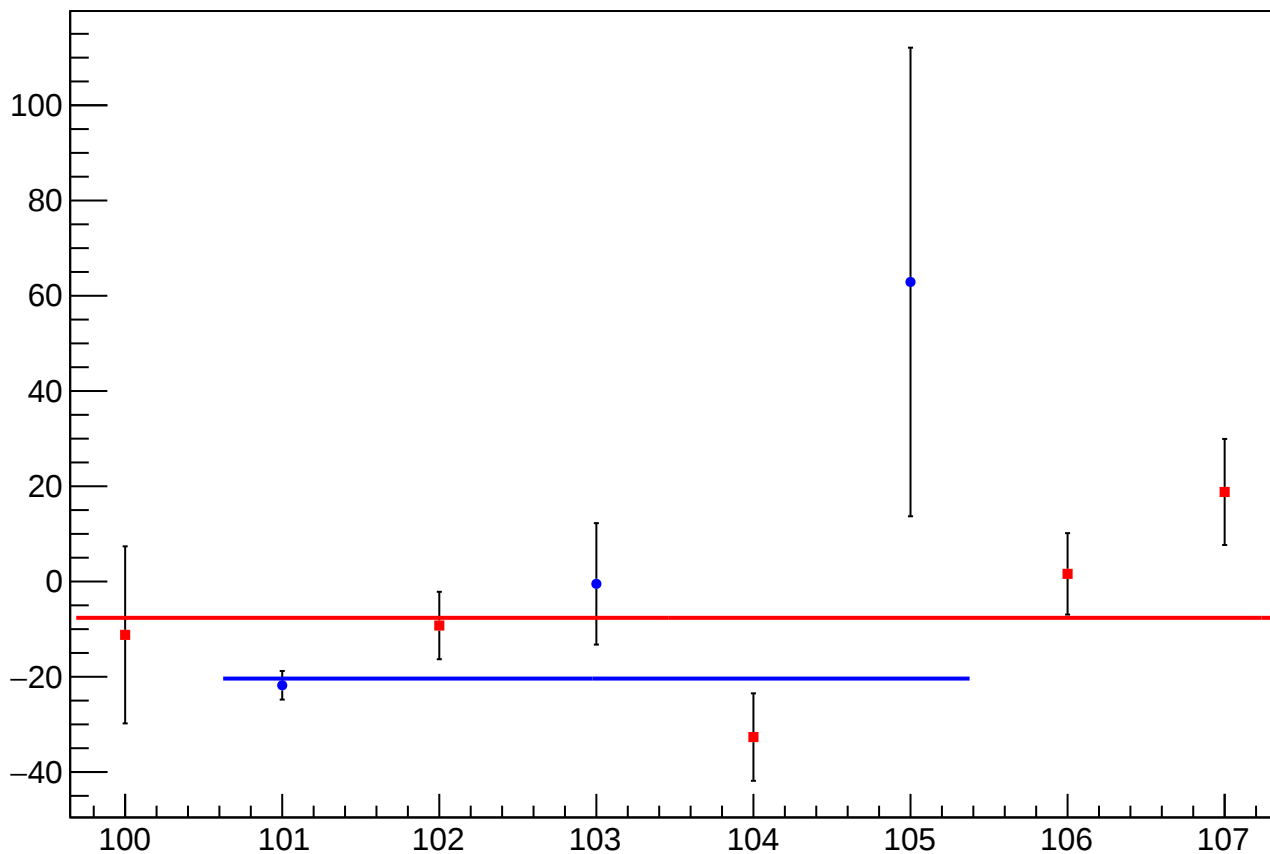
Right Out: -18.740 $\pm$ 5.461  $\chi^2$ /NDF: 475.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-65.624 $\pm$ 4.595  $\chi^2$ /NDF: 129.9/2

-18.740 $\pm$ 5.461  $\chi^2$ /NDF: 475.6/4

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs slug



Right In: -20.377 $\pm$ 2.916  $\chi^2$ /NDF: 5.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

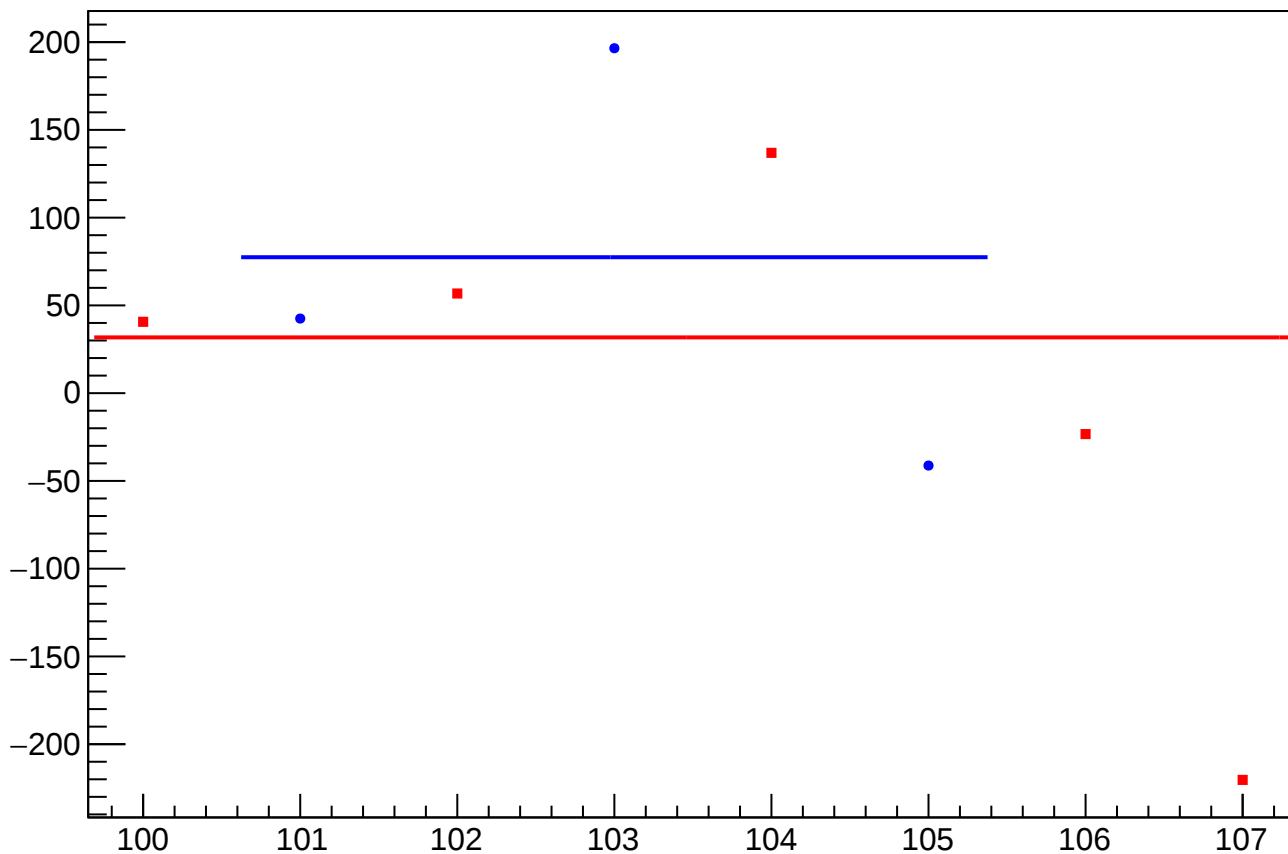
Right Out: -7.622 $\pm$ 4.209  $\chi^2$ /NDF: 14.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-20.377 $\pm$ 2.916  $\chi^2$ /NDF: 5.5/2

-7.622 $\pm$ 4.209  $\chi^2$ /NDF: 14.3/4

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs slug



Right In: 77.452+/-0.153  $\chi^2/\text{NDF}$ : 181510.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

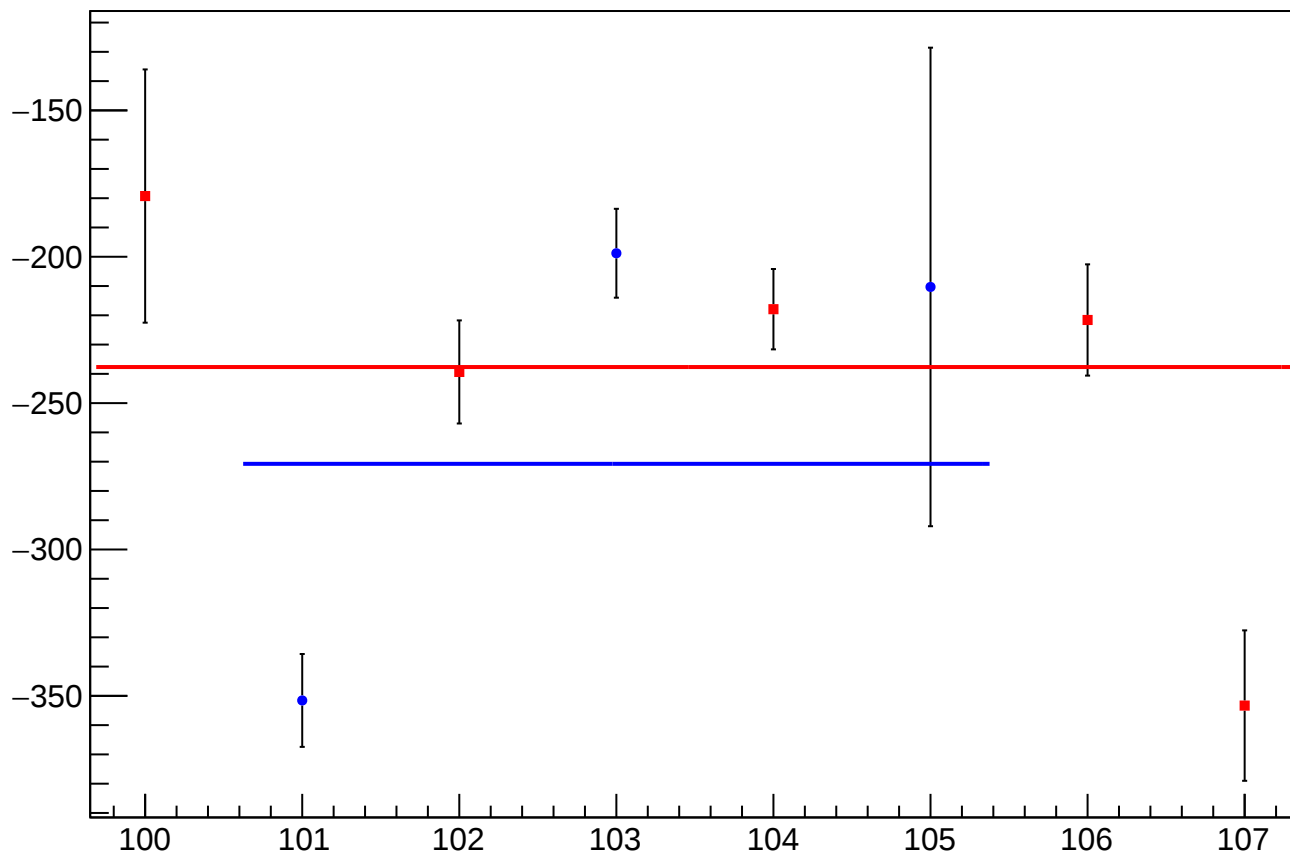
Right Out: 31.771+/-0.138  $\chi^2/\text{NDF}$ : 399130.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

77.452+/-0.153  $\chi^2/\text{NDF}$ : 181510.3/2

31.771+/-0.138  $\chi^2/\text{NDF}$ : 399130.8/4

# reg\_asym\_atl2\_diff\_bpm4aX\_slope vs slug



Right In: -270.738+/-10.871  $\chi^2/\text{NDF}$ : 49.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

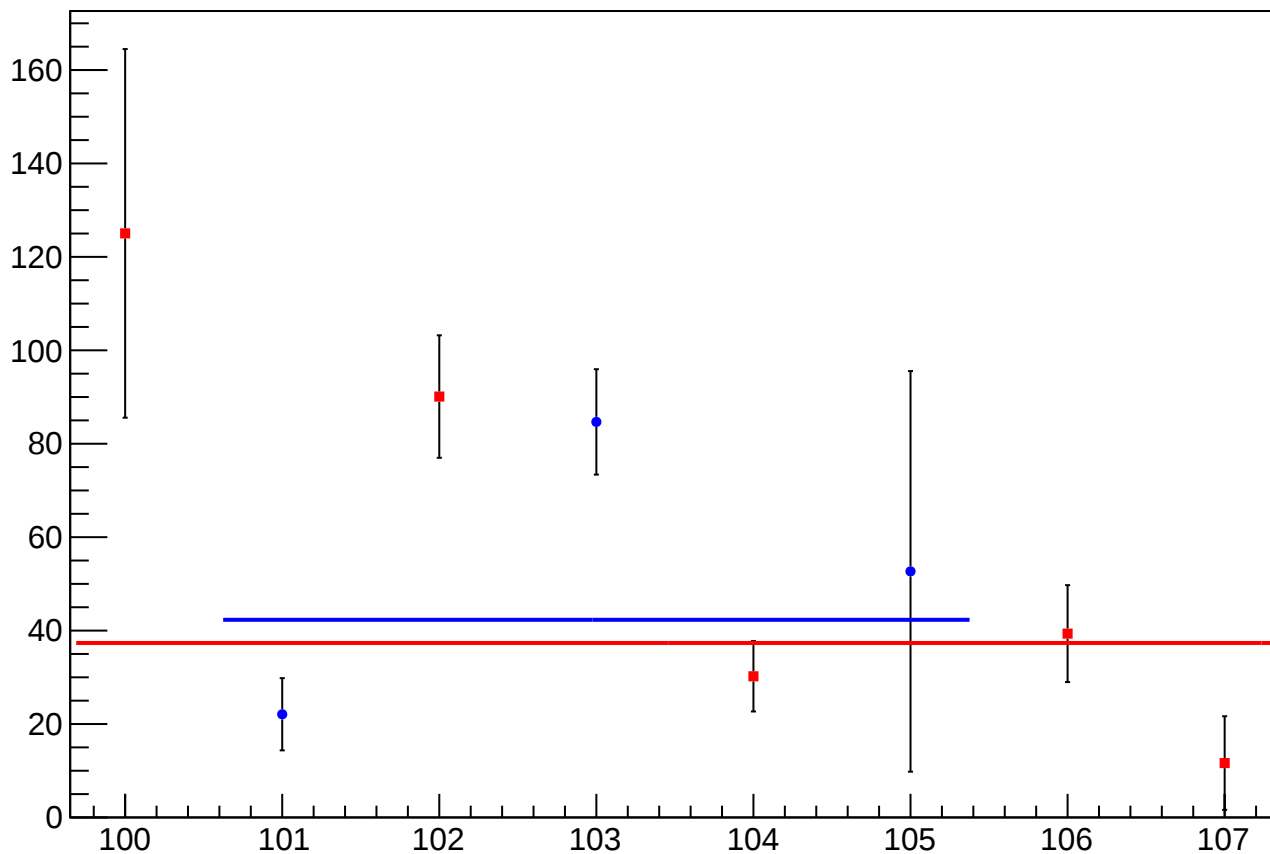
Right Out: -237.671+/-8.655  $\chi^2/\text{NDF}$ : 24.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-270.738+/-10.871  $\chi^2/\text{NDF}$ : 49.0/2

-237.671+/-8.655  $\chi^2/\text{NDF}$ : 24.9/4

# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs slug



Right In: 42.312+/-6.307  $\chi^2$ /NDF: 21.0/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

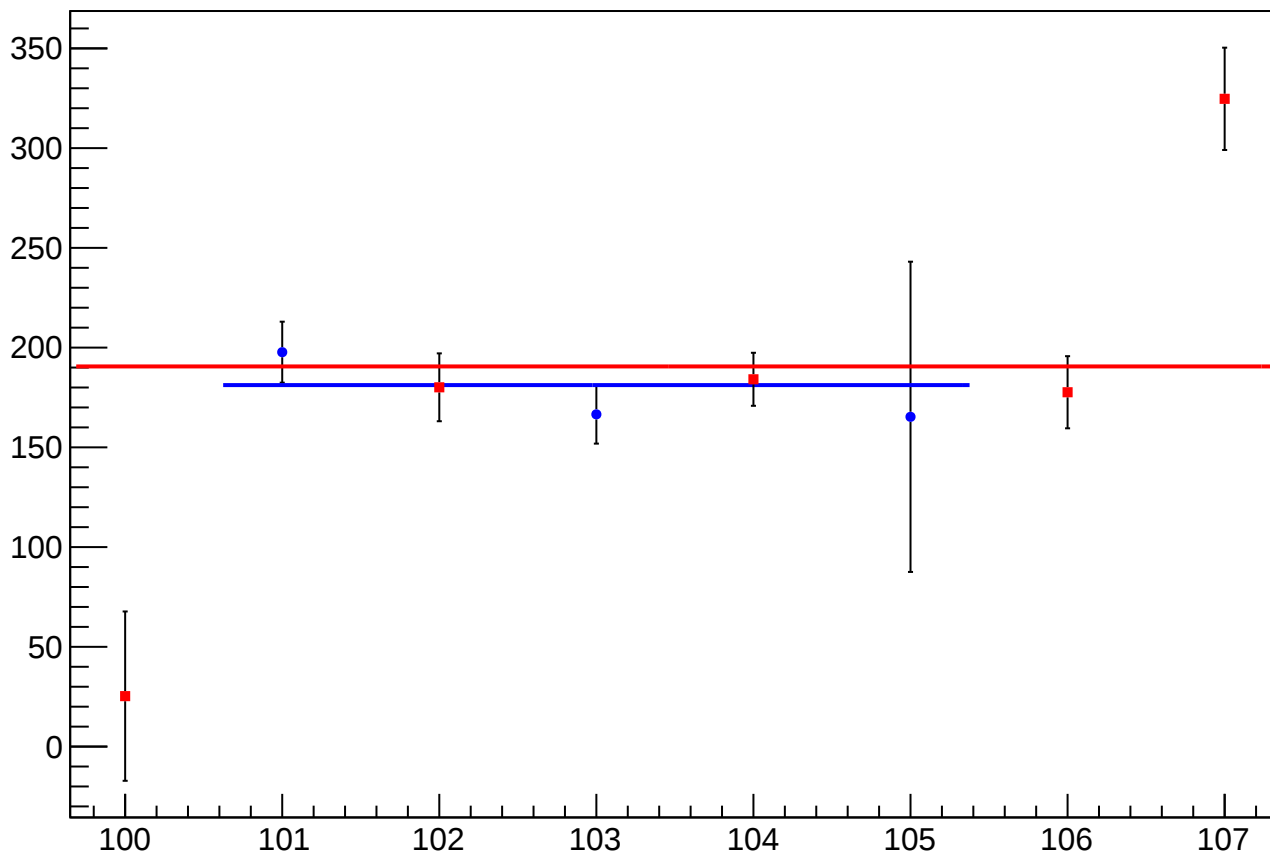
Right Out: 37.350+/-4.803  $\chi^2$ /NDF: 28.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

42.312+/-6.307  $\chi^2$ /NDF: 21.0/2

37.350+/-4.803  $\chi^2$ /NDF: 28.6/4

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs slug



Right In:  $181.212 \pm 10.492$   $\chi^2/\text{NDF}: 2.2/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

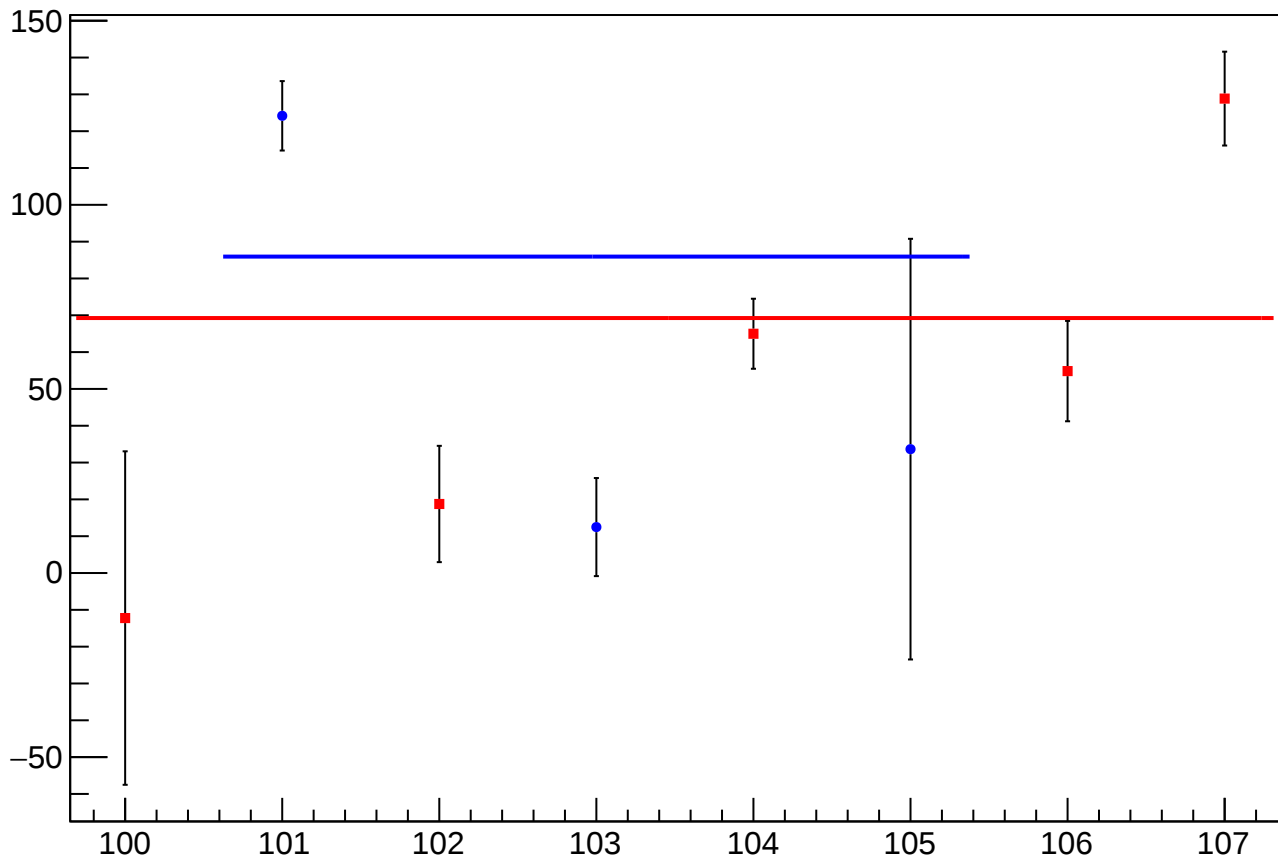
Right Out:  $190.564 \pm 8.376$   $\chi^2/\text{NDF}: 43.7/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$181.212 \pm 10.492$   $\chi^2/\text{NDF}: 2.2/2$

$190.564 \pm 8.376$   $\chi^2/\text{NDF}: 43.7/4$

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs slug



Right In: 85.940 $\pm$ 7.627  $\chi^2$ /NDF: 47.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

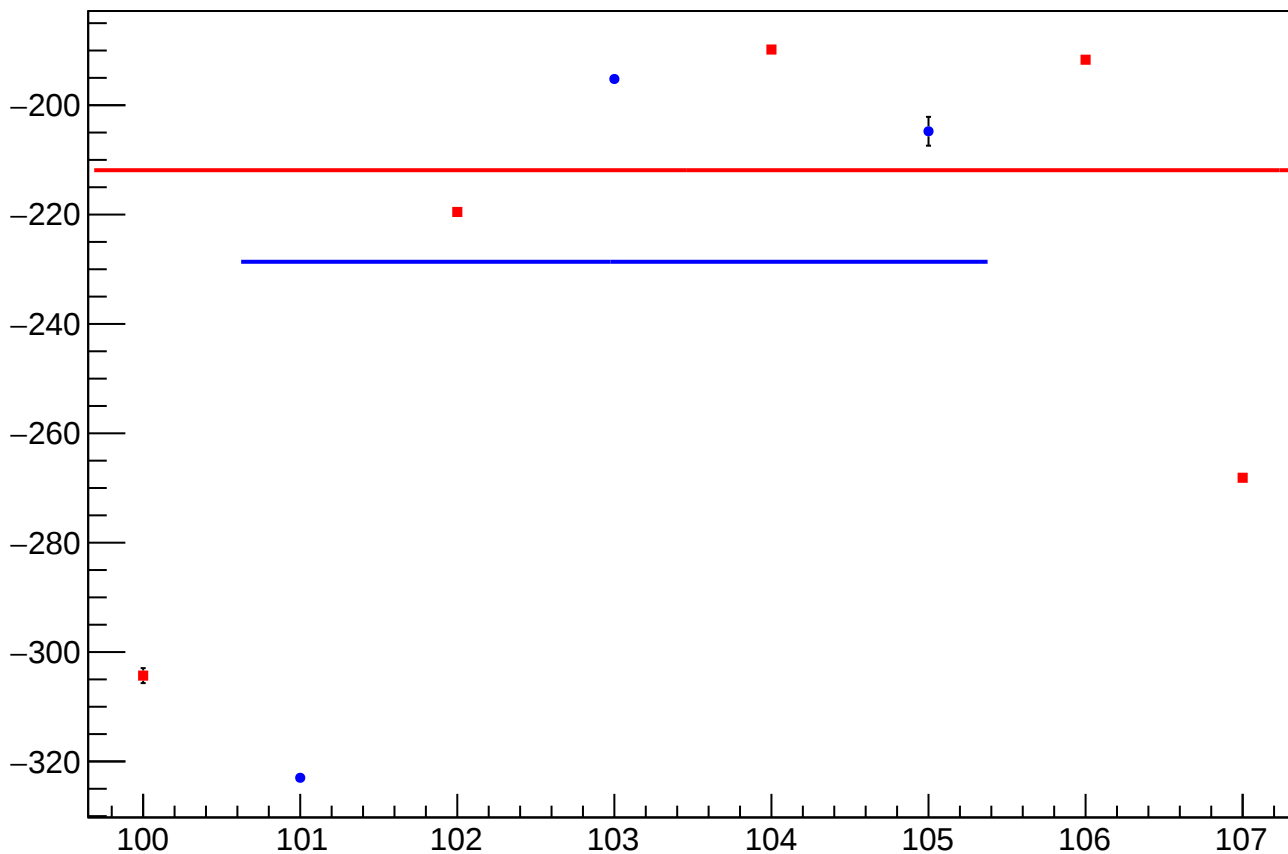
Right Out: 69.250 $\pm$ 6.076  $\chi^2$ /NDF: 36.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

85.940 $\pm$ 7.627  $\chi^2$ /NDF: 47.7/2

69.250 $\pm$ 6.076  $\chi^2$ /NDF: 36.6/4

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs slug



Right In: -228.632+/-0.281  $\chi^2$ /NDF: 39724.3/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

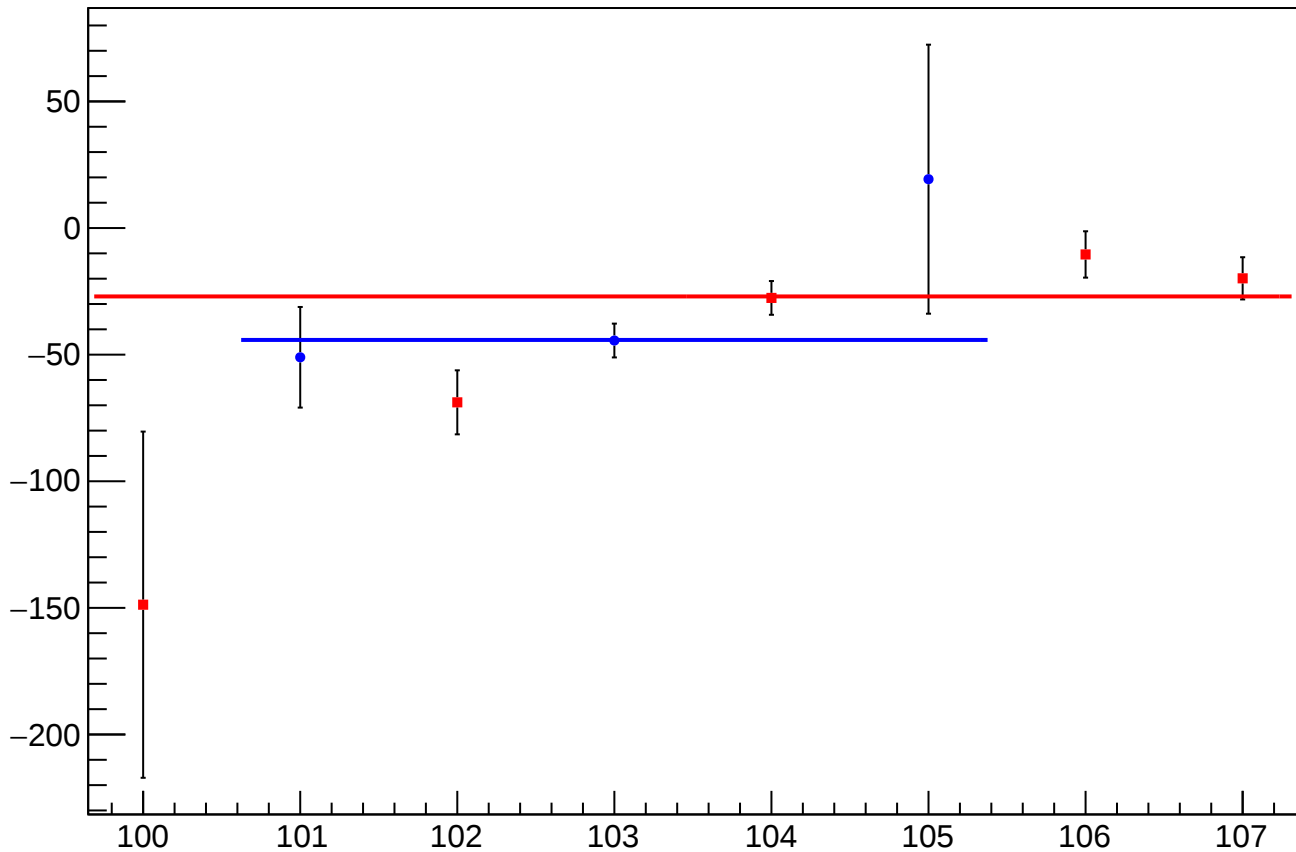
-228.632+/-0.281  $\chi^2$ /NDF: 39724.3/2

Right Out: -211.887+/-0.214  $\chi^2$ /NDF: 19630.6/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-211.887+/-0.214  $\chi^2$ /NDF: 19630.6/4

# reg\_asym\_atr1\_diff\_bpm4aX\_slope vs slug



Right In:  $-44.191 \pm 6.285$   $\chi^2/\text{NDF}: 1.5/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

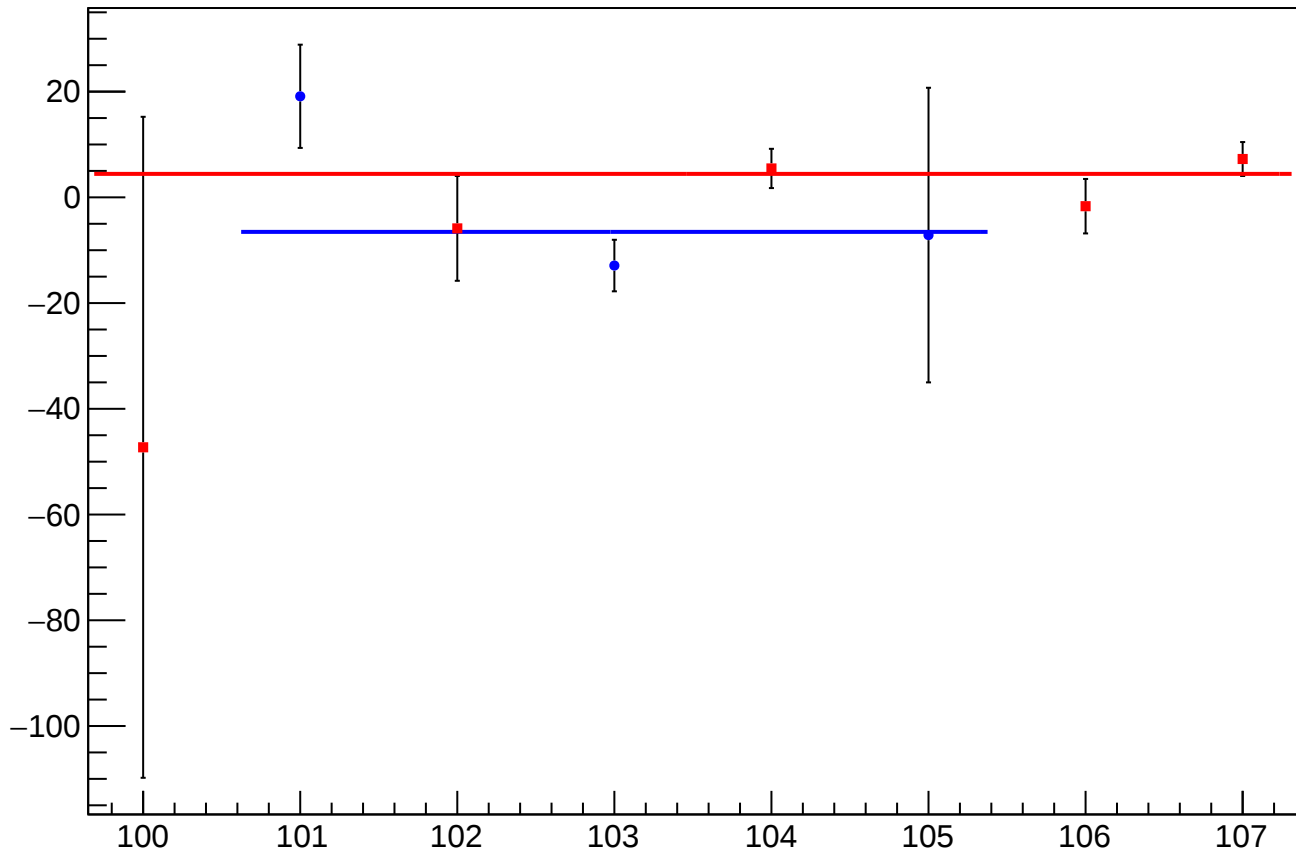
Right Out:  $-27.010 \pm 4.252$   $\chi^2/\text{NDF}: 18.1/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-44.191 \pm 6.285$   $\chi^2/\text{NDF}: 1.5/2$

$-27.010 \pm 4.252$   $\chi^2/\text{NDF}: 18.1/4$

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs slug



Right In: -6.532+/-4.308  $\chi^2/\text{NDF}$ : 8.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

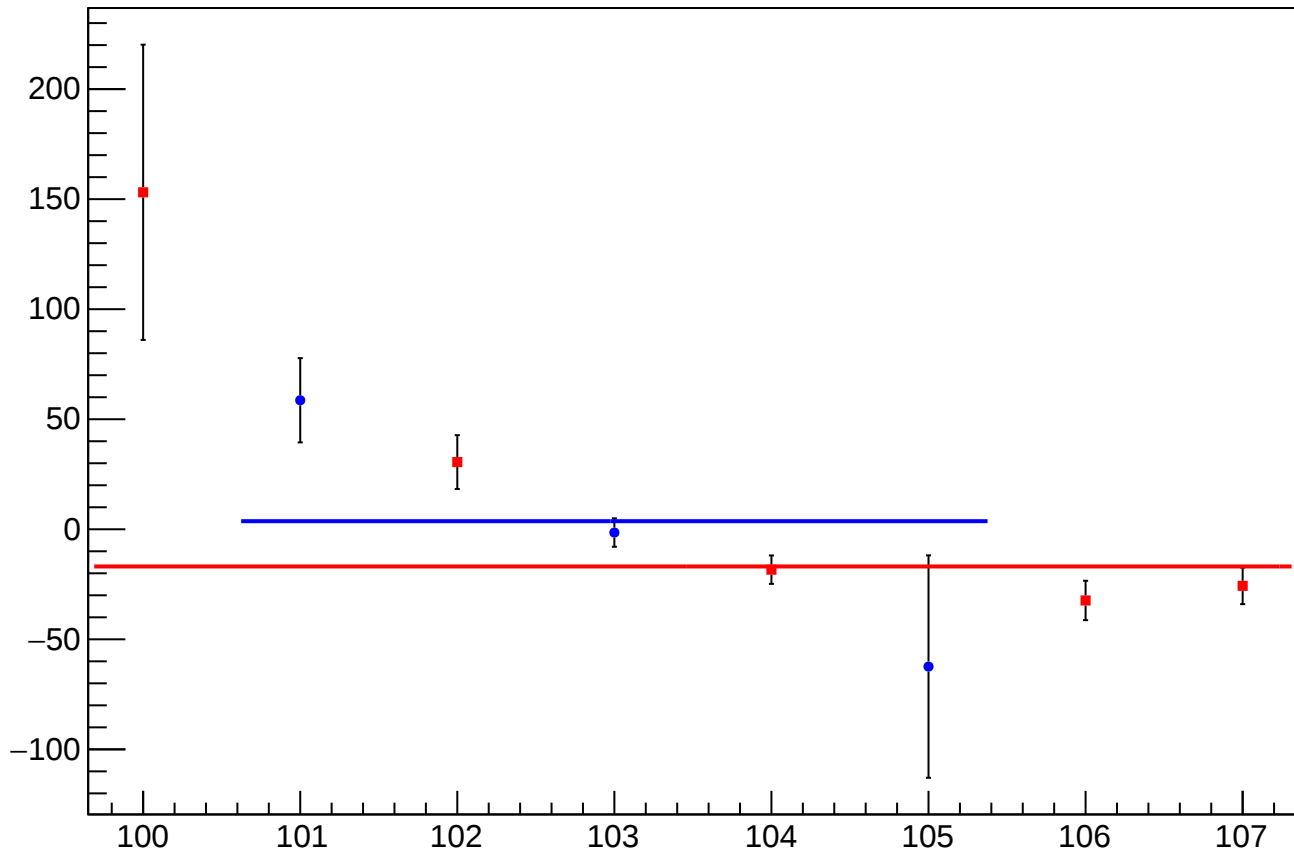
Right Out: 4.438+/-2.142  $\chi^2/\text{NDF}$ : 4.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-6.532+/-4.308  $\chi^2/\text{NDF}$ : 8.6/2

4.438+/-2.142  $\chi^2/\text{NDF}$ : 4.0/4

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs slug



Right In: 3.680+/-6.075  $\chi^2/\text{NDF}$ : 10.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

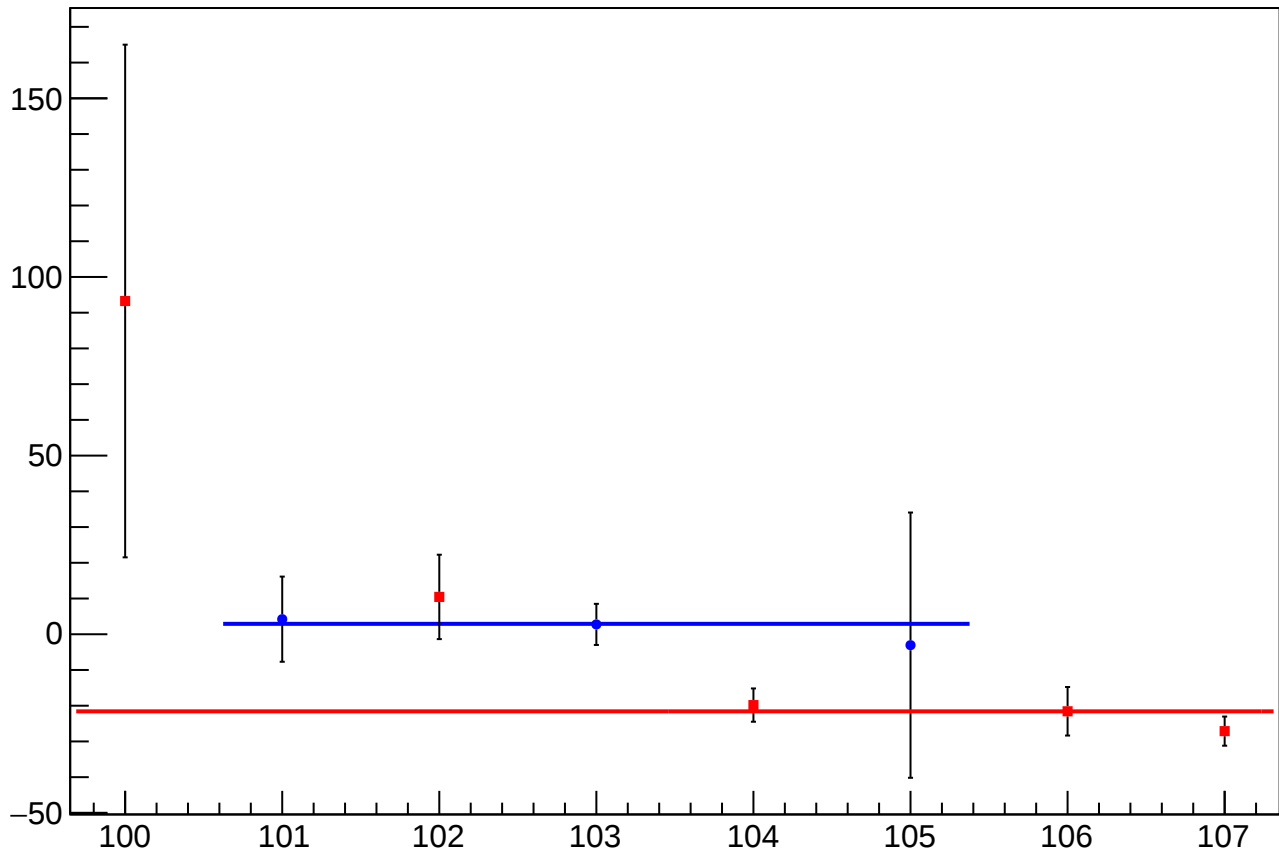
Right Out: -16.897+/-4.157  $\chi^2/\text{NDF}$ : 25.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.680+/-6.075  $\chi^2/\text{NDF}$ : 10.6/2

-16.897+/-4.157  $\chi^2/\text{NDF}$ : 25.6/4

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs slug



Right In: 2.915+/-5.133  $\chi^2/\text{NDF}$ : 0.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

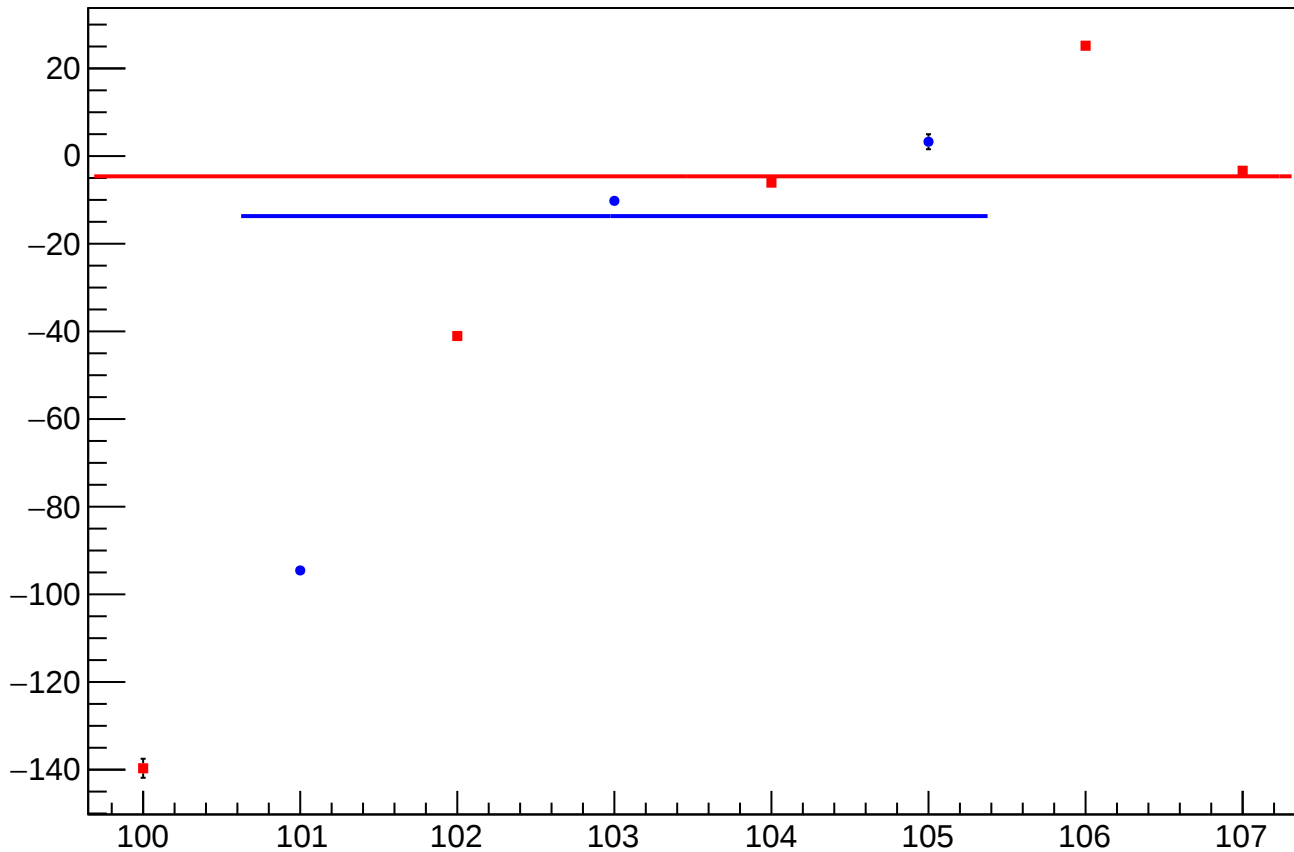
2.915+/-5.133  $\chi^2/\text{NDF}$ : 0.0/2

Right Out: -21.579+/-2.719  $\chi^2/\text{NDF}$ : 11.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-21.579+/-2.719  $\chi^2/\text{NDF}$ : 11.9/4

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs slug



Right In: -13.692 $\pm$ 0.141  $\chi^2$ /NDF: 14545.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

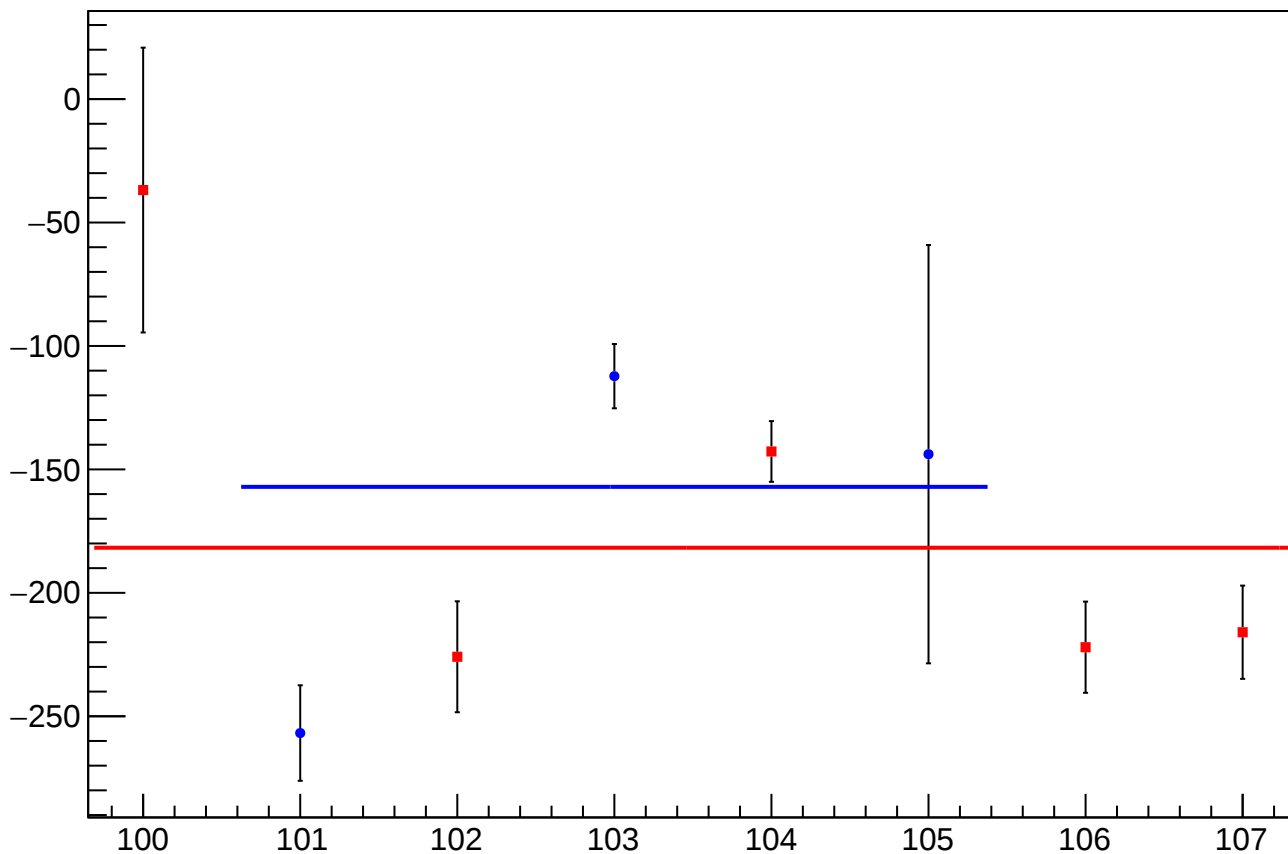
Right Out: -4.619 $\pm$ 0.102  $\chi^2$ /NDF: 36453.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-13.692 $\pm$ 0.141  $\chi^2$ /NDF: 14545.4/2

-4.619 $\pm$ 0.102  $\chi^2$ /NDF: 36453.2/4

# reg\_asym\_atr2\_diff\_bpm4aX\_slope vs slug



Right In: -157.068+/-10.714  $\chi^2/\text{NDF}$ : 38.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

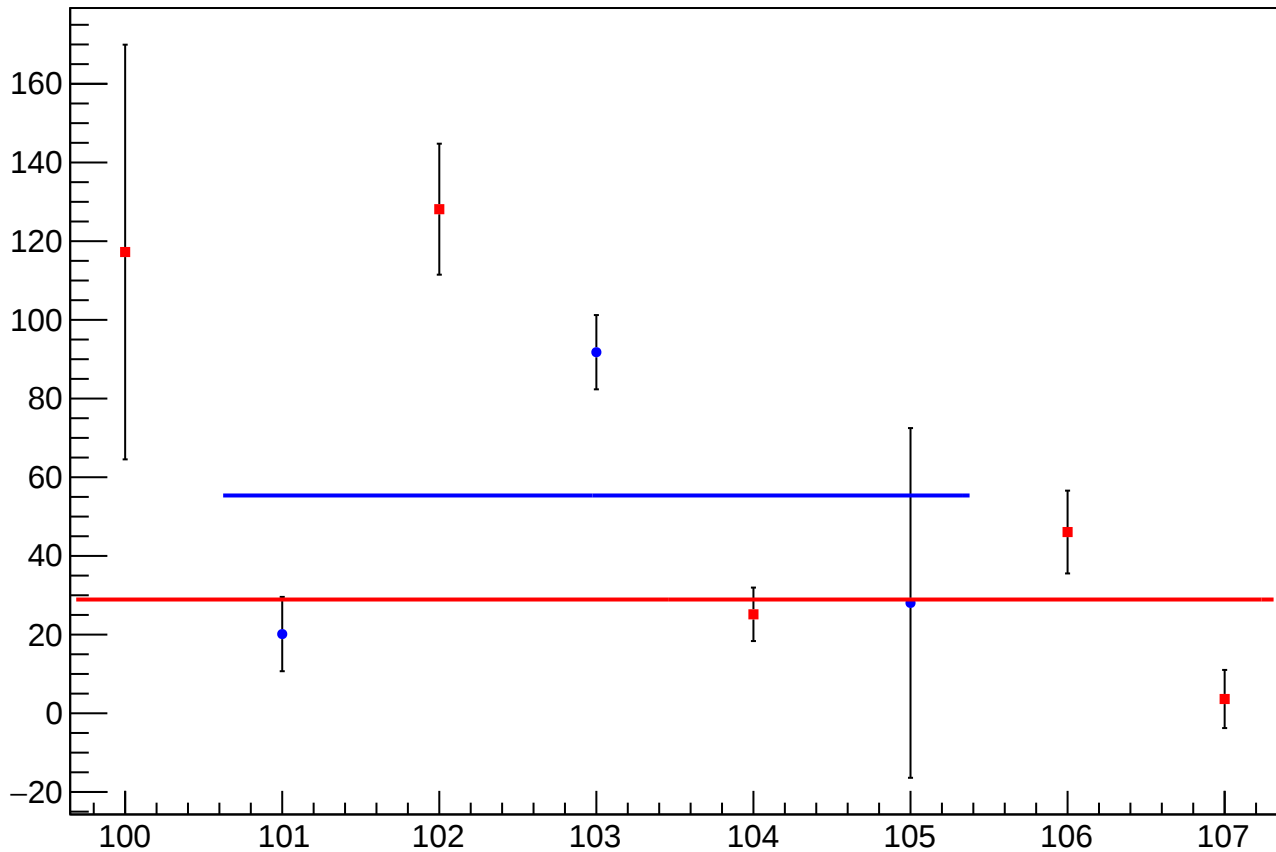
Right Out: -181.734+/-8.267  $\chi^2/\text{NDF}$ : 28.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-157.068+/-10.714  $\chi^2/\text{NDF}$ : 38.5/2

-181.734+/-8.267  $\chi^2/\text{NDF}$ : 28.3/4

# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs slug



Right In: 55.362 $\pm$ 6.603  $\chi^2$ /NDF: 29.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

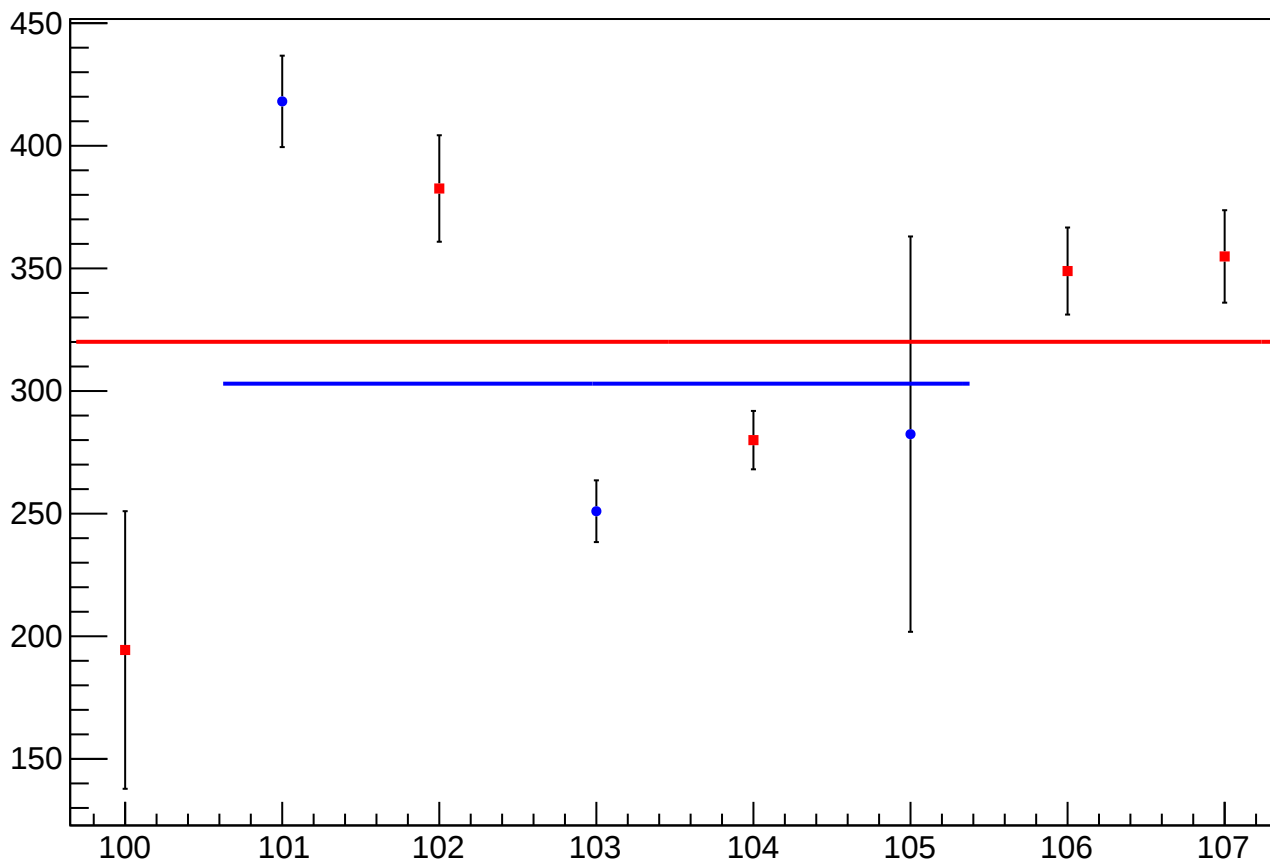
Right Out: 28.919 $\pm$ 4.345  $\chi^2$ /NDF: 53.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

55.362 $\pm$ 6.603  $\chi^2$ /NDF: 29.2/2

28.919 $\pm$ 4.345  $\chi^2$ /NDF: 53.0/4

reg\_asym\_atr2\_diff\_bpm4eX\_slope vs slug



Right In: 303.000 $\pm$ 10.346  $\chi^2$ /NDF: 55.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

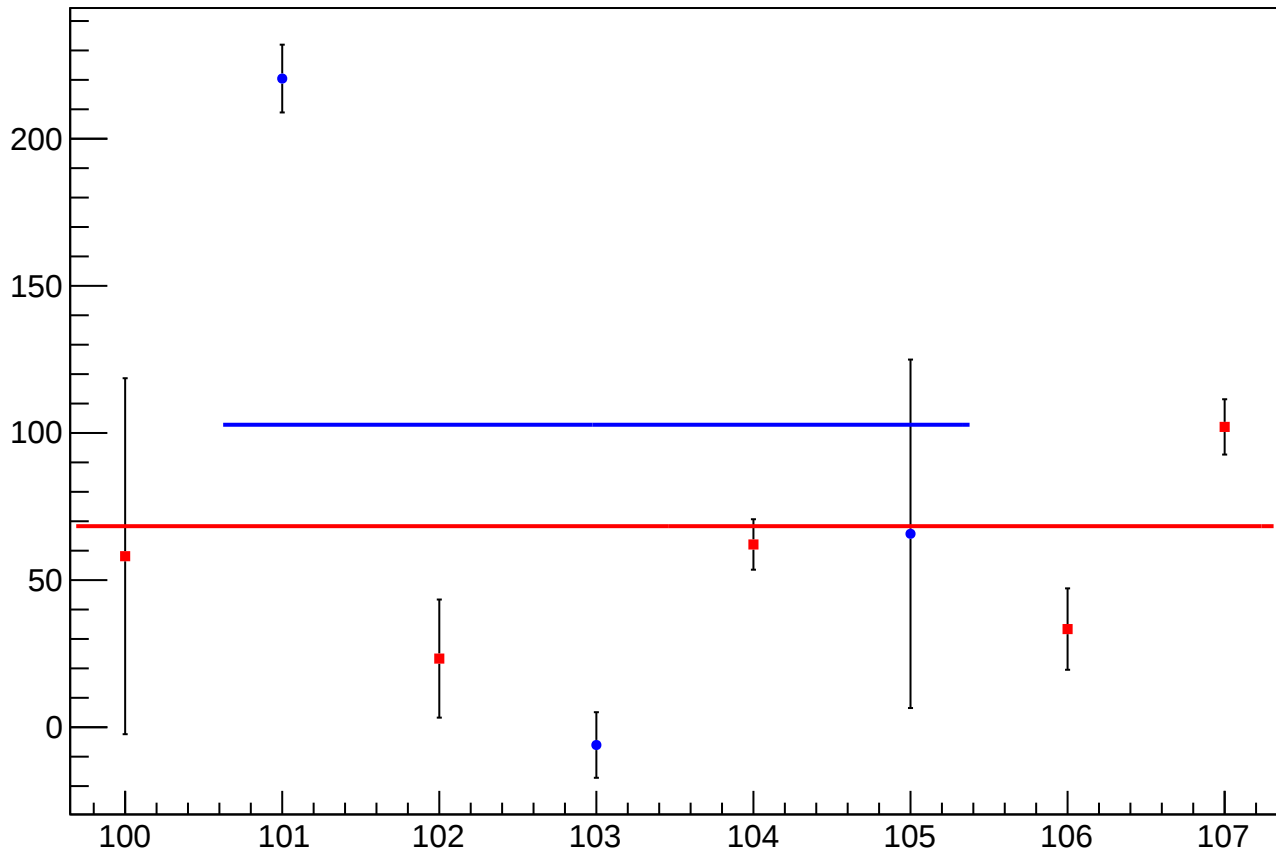
Right Out: 320.073 $\pm$ 8.037  $\chi^2$ /NDF: 30.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

303.000 $\pm$ 10.346  $\chi^2$ /NDF: 55.3/2

320.073 $\pm$ 8.037  $\chi^2$ /NDF: 30.6/4

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs slug



Right In: 102.797 $\pm$ 7.938  $\chi^2$ /NDF: 200.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

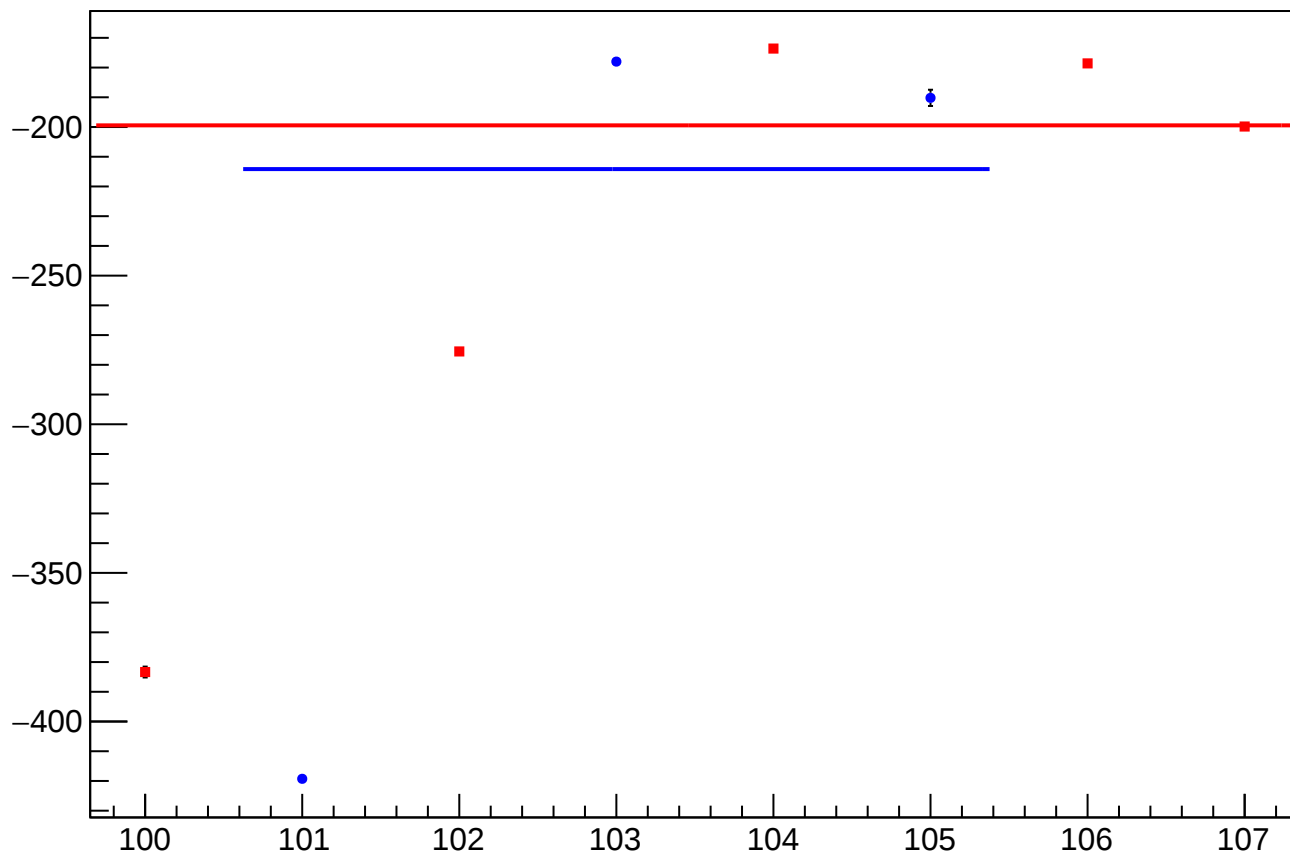
Right Out: 68.329 $\pm$ 5.513  $\chi^2$ /NDF: 24.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

102.797 $\pm$ 7.938  $\chi^2$ /NDF: 200.0/2

68.329 $\pm$ 5.513  $\chi^2$ /NDF: 24.9/4

reg\_asym\_atr2\_diff\_bpm12X\_slope vs slug



Right In: -214.155+/-0.259  $\chi^2$ /NDF: 110114.1/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

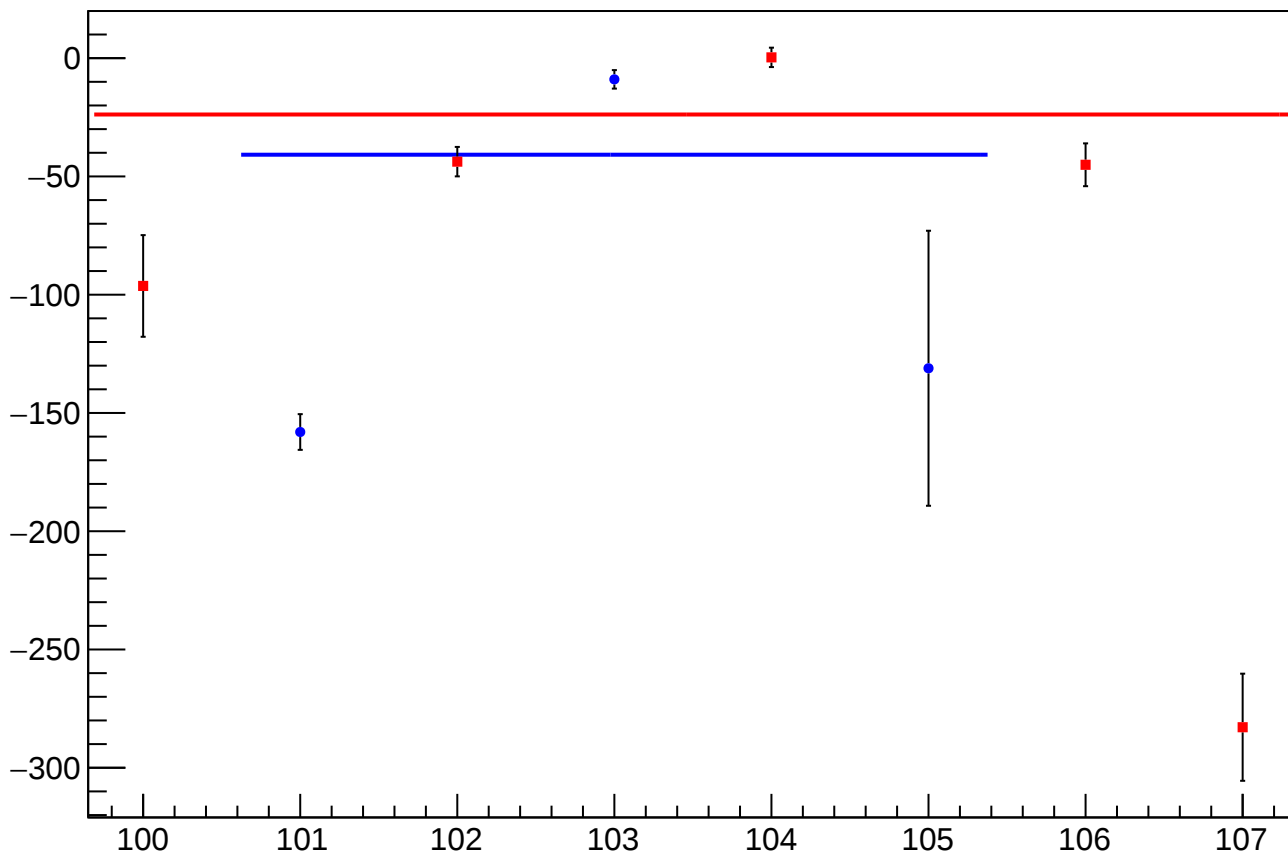
Right Out: -199.442+/-0.204  $\chi^2$ /NDF: 41824.0/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-214.155+/-0.259  $\chi^2$ /NDF: 110114.1/2

-199.442+/-0.204  $\chi^2$ /NDF: 41824.0/4

# reg\_asym\_atl\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -40.817 $\pm$ 3.466  $\chi^2$ /NDF: 309.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

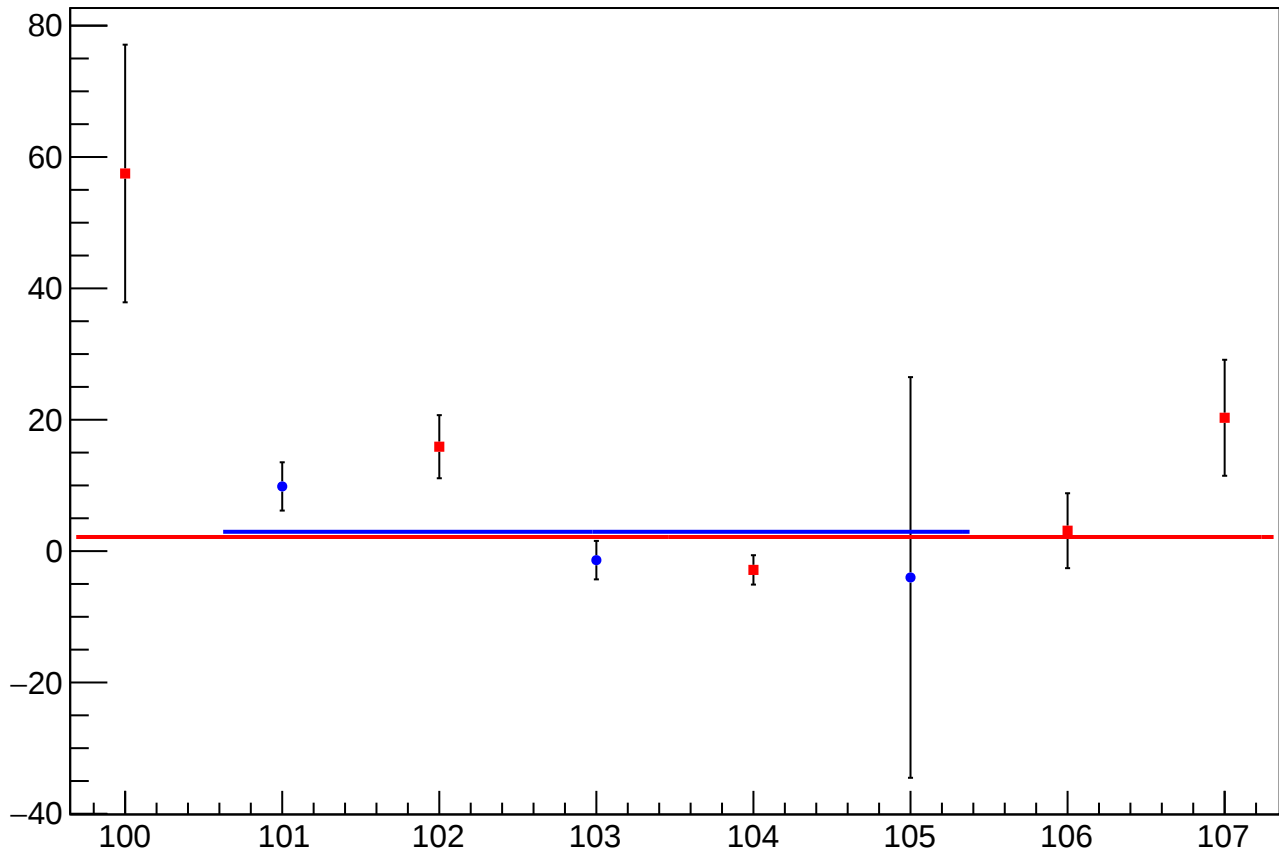
Right Out: -23.816 $\pm$ 3.137  $\chi^2$ /NDF: 192.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-40.817 $\pm$ 3.466  $\chi^2$ /NDF: 309.9/2

-23.816 $\pm$ 3.137  $\chi^2$ /NDF: 192.7/4

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 2.943+/-2.284  $\chi^2/\text{NDF}$ : 5.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

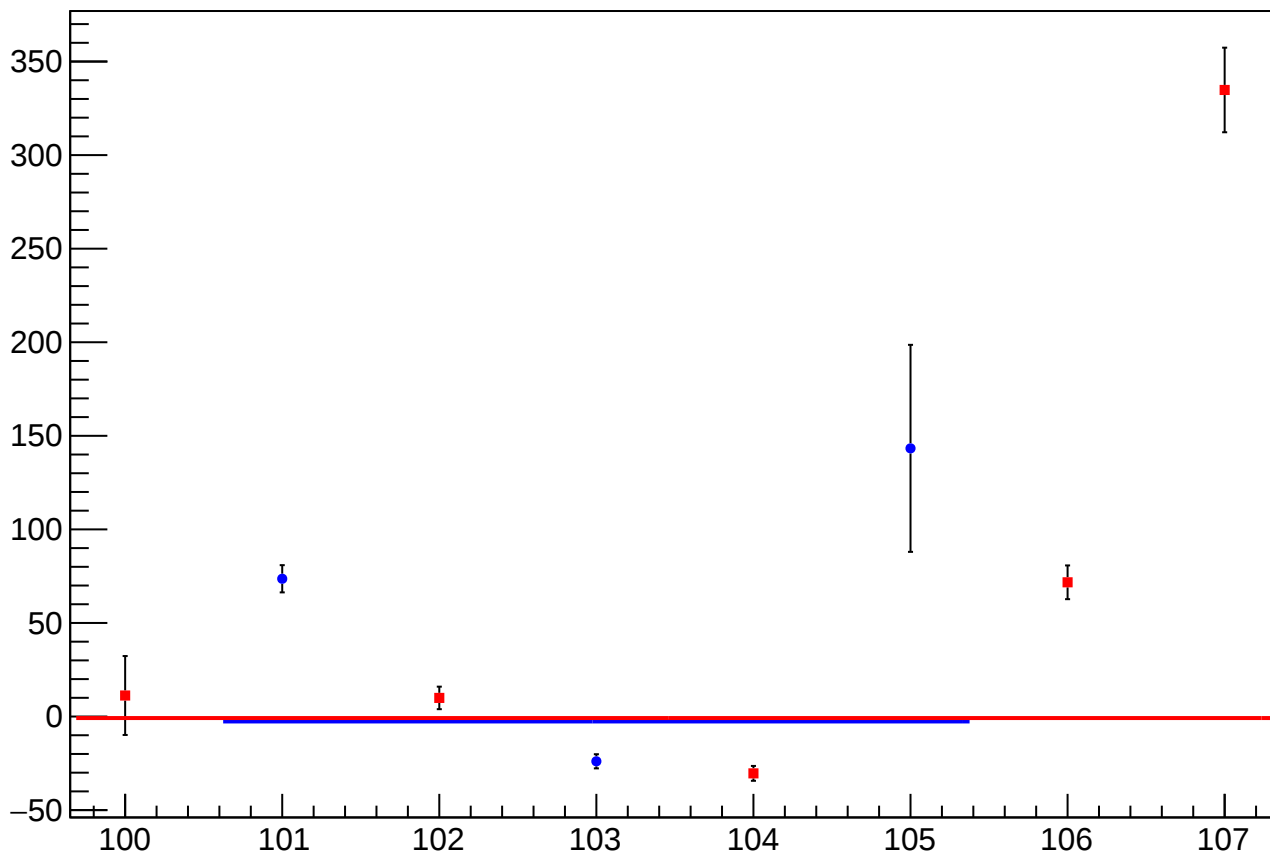
Right Out: 2.150+/-1.859  $\chi^2/\text{NDF}$ : 25.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.943+/-2.284  $\chi^2/\text{NDF}$ : 5.8/2

2.150+/-1.859  $\chi^2/\text{NDF}$ : 25.4/4

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs slug



Right In: -2.631+/-3.350  $\chi^2/\text{NDF}$ : 148.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

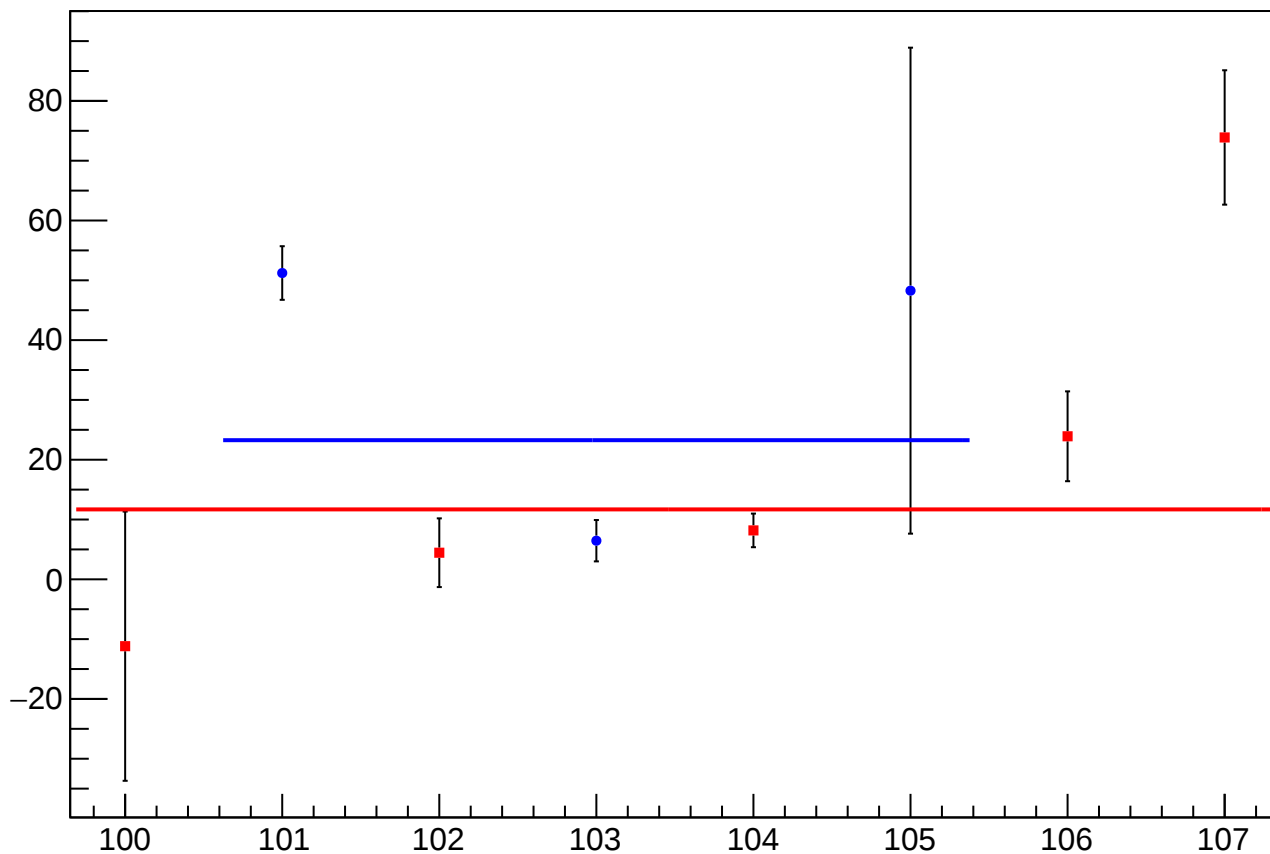
Right Out: -0.813+/-3.049  $\chi^2/\text{NDF}$ : 344.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.631+/-3.350  $\chi^2/\text{NDF}$ : 148.5/2

-0.813+/-3.049  $\chi^2/\text{NDF}$ : 344.2/4

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 23.266+/-2.732  $\chi^2/\text{NDF}$ : 62.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

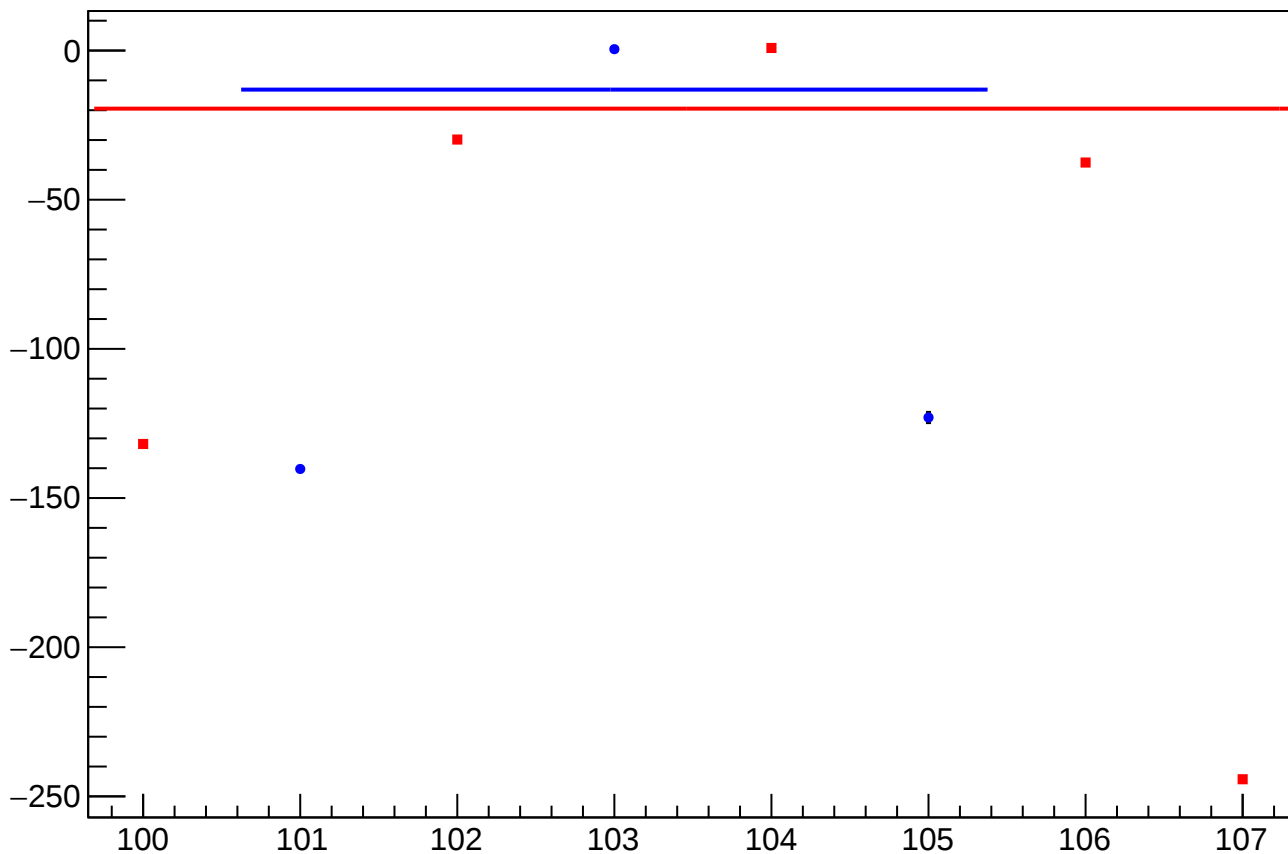
Right Out: 11.692+/-2.328  $\chi^2/\text{NDF}$ : 37.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

23.266+/-2.732  $\chi^2/\text{NDF}$ : 62.9/2

11.692+/-2.328  $\chi^2/\text{NDF}$ : 37.5/4

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs slug



Right In: -13.094 $\pm$ 0.081  $\chi^2$ /NDF: 264484.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

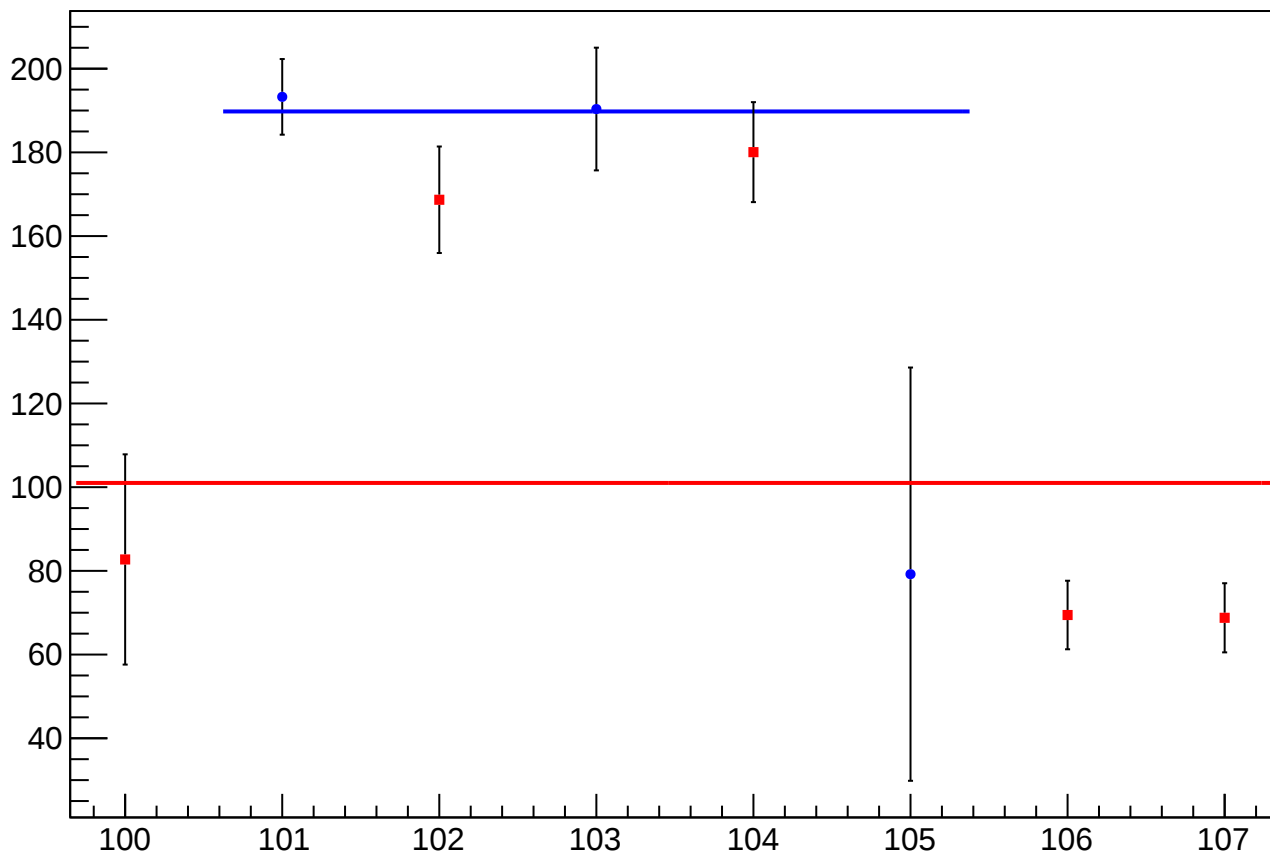
Right Out: -19.474 $\pm$ 0.074  $\chi^2$ /NDF: 268293.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-13.094 $\pm$ 0.081  $\chi^2$ /NDF: 264484.8/2

-19.474 $\pm$ 0.074  $\chi^2$ /NDF: 268293.0/4

# reg\_asym\_atl\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 189.781 $\pm$ 7.603  $\chi^2$ /NDF: 5.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

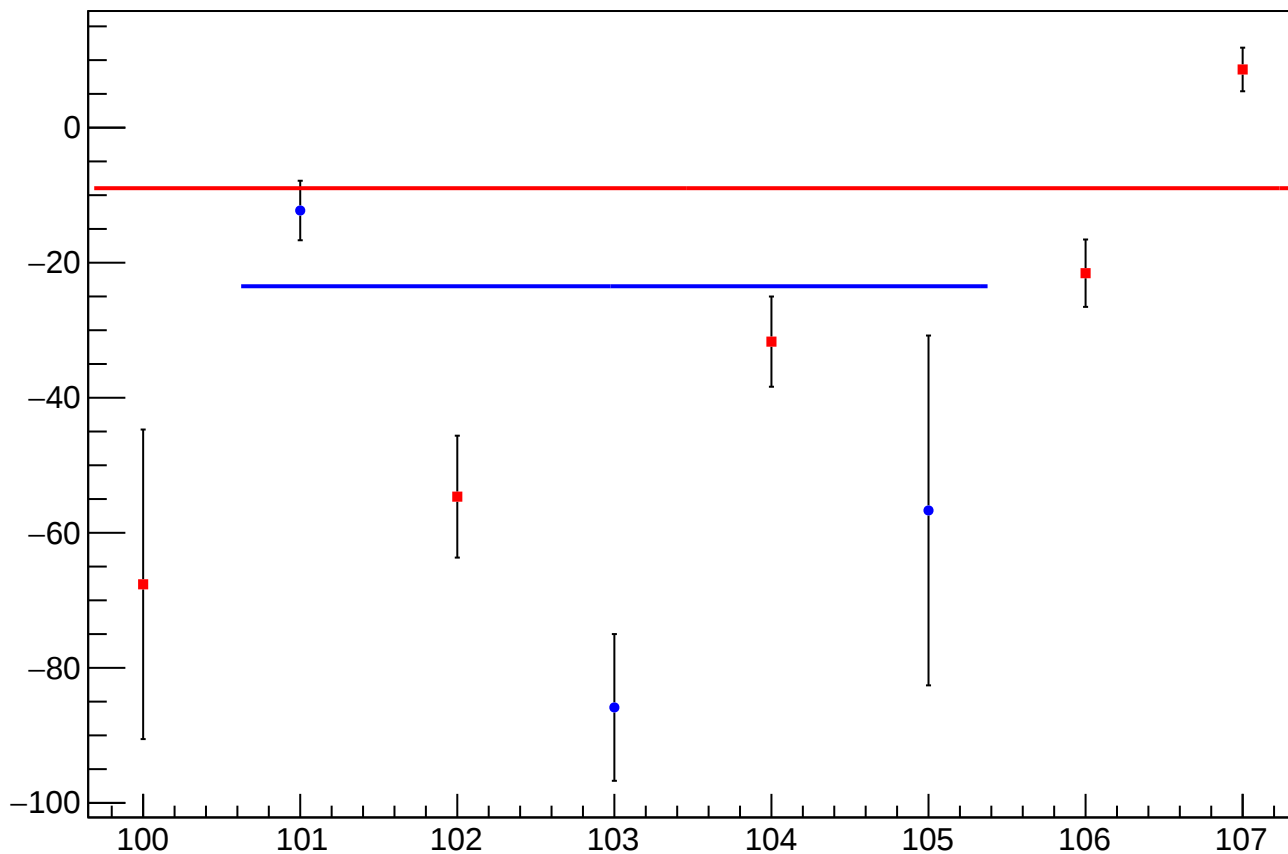
Right Out: 101.012 $\pm$ 4.749  $\chi^2$ /NDF: 102.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

189.781 $\pm$ 7.603  $\chi^2$ /NDF: 5.2/2

101.012 $\pm$ 4.749  $\chi^2$ /NDF: 102.7/4

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -23.488 $\pm$ 4.033  $\chi^2$ /NDF: 41.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

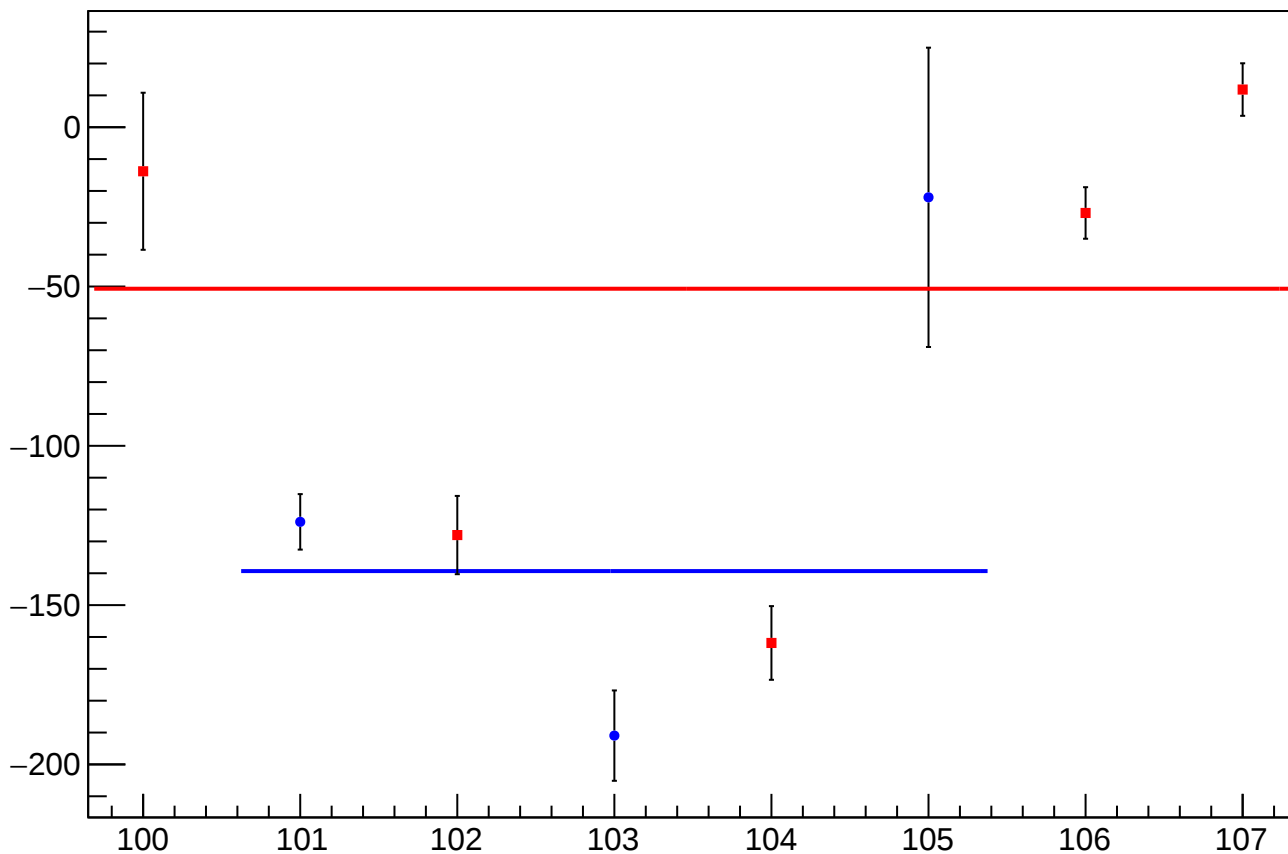
Right Out: -8.967 $\pm$ 2.406  $\chi^2$ /NDF: 79.7/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-23.488 $\pm$ 4.033  $\chi^2$ /NDF: 41.1/2

-8.967 $\pm$ 2.406  $\chi^2$ /NDF: 79.7/4

reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -139.317 $\pm$ 7.331  $\chi^2$ /NDF: 22.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

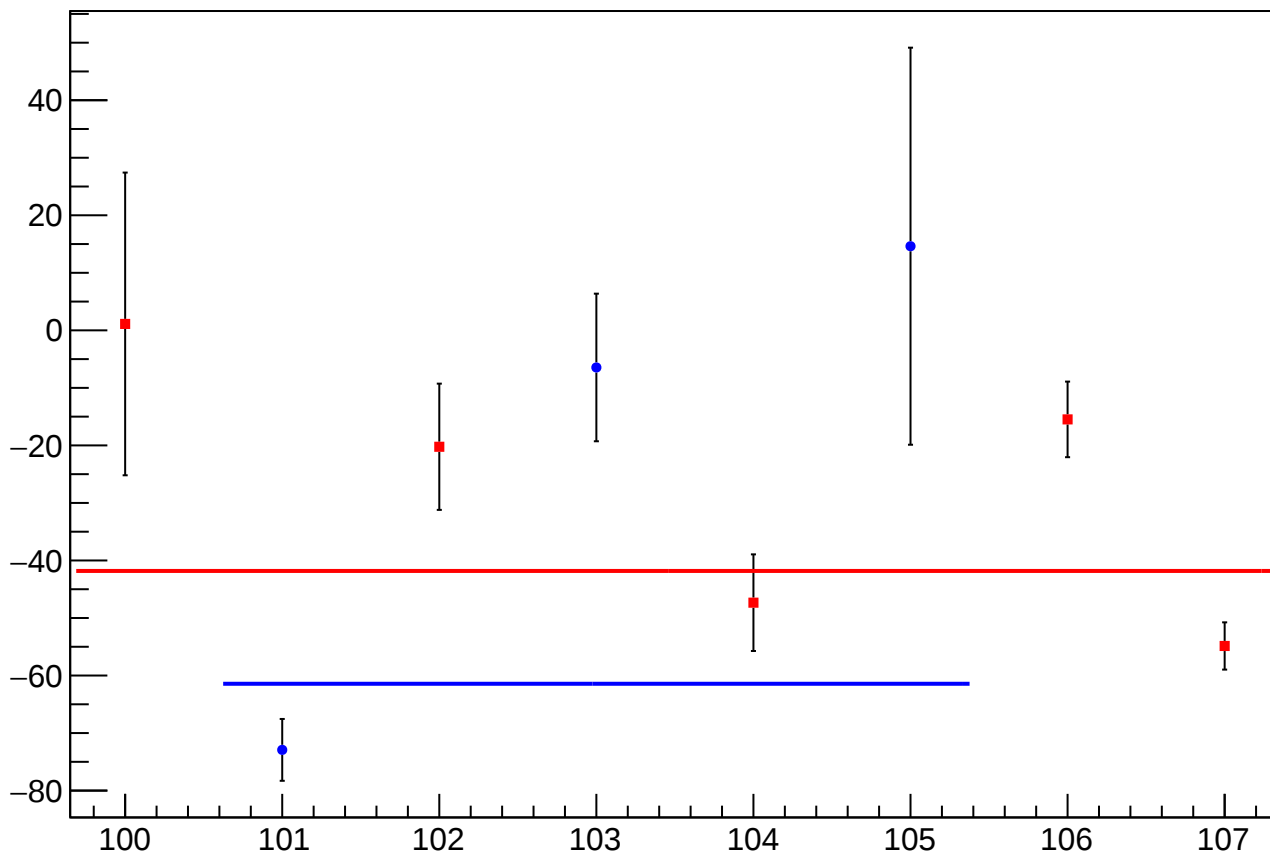
Right Out: -50.691 $\pm$ 4.676  $\chi^2$ /NDF: 200.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-139.317 $\pm$ 7.331  $\chi^2$ /NDF: 22.6/2

-50.691 $\pm$ 4.676  $\chi^2$ /NDF: 200.4/4

reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -61.432 $\pm$ 4.906  $\chi^2$ /NDF: 27.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

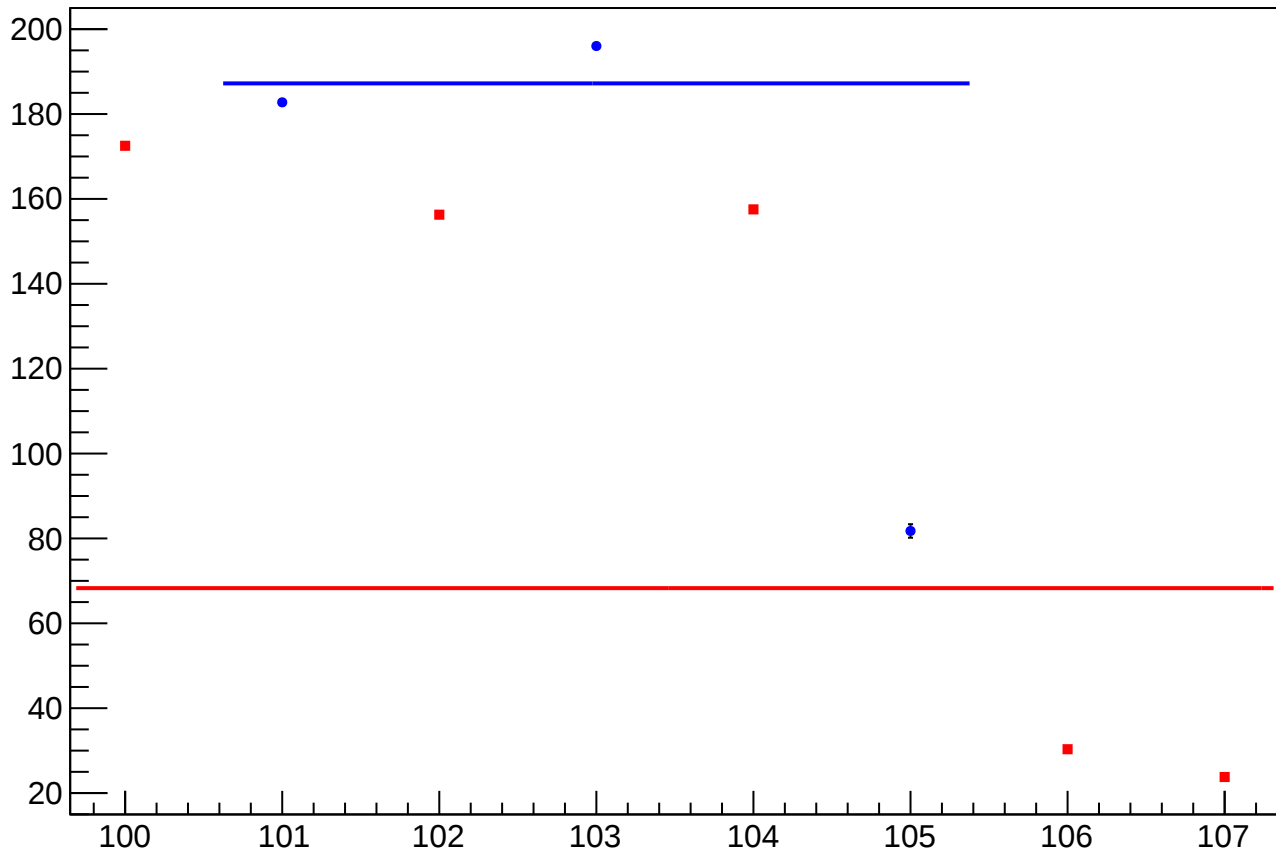
Right Out: -41.821 $\pm$ 3.066  $\chi^2$ /NDF: 33.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-61.432 $\pm$ 4.906  $\chi^2$ /NDF: 27.8/2

-41.821 $\pm$ 3.066  $\chi^2$ /NDF: 33.1/4

# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs slug



Right In: 187.220+/-0.221  $\chi^2/\text{NDF}$ : 5352.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

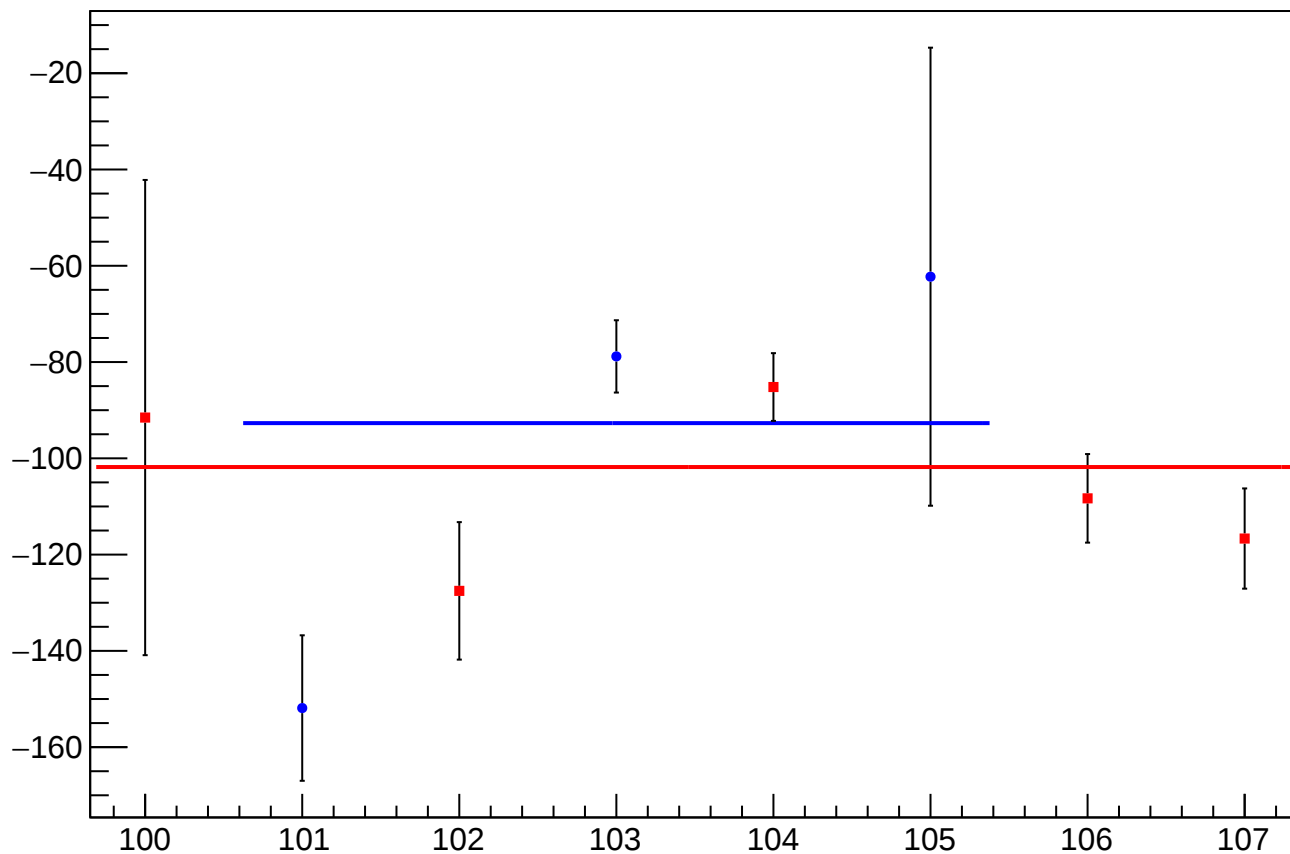
187.220+/-0.221  $\chi^2/\text{NDF}$ : 5352.5/2

Right Out: 68.288+/-0.113  $\chi^2/\text{NDF}$ : 292819.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

68.288+/-0.113  $\chi^2/\text{NDF}$ : 292819.6/4

# reg\_asym\_atr\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -92.687 $\pm$ 6.660  $\chi^2$ /NDF: 19.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

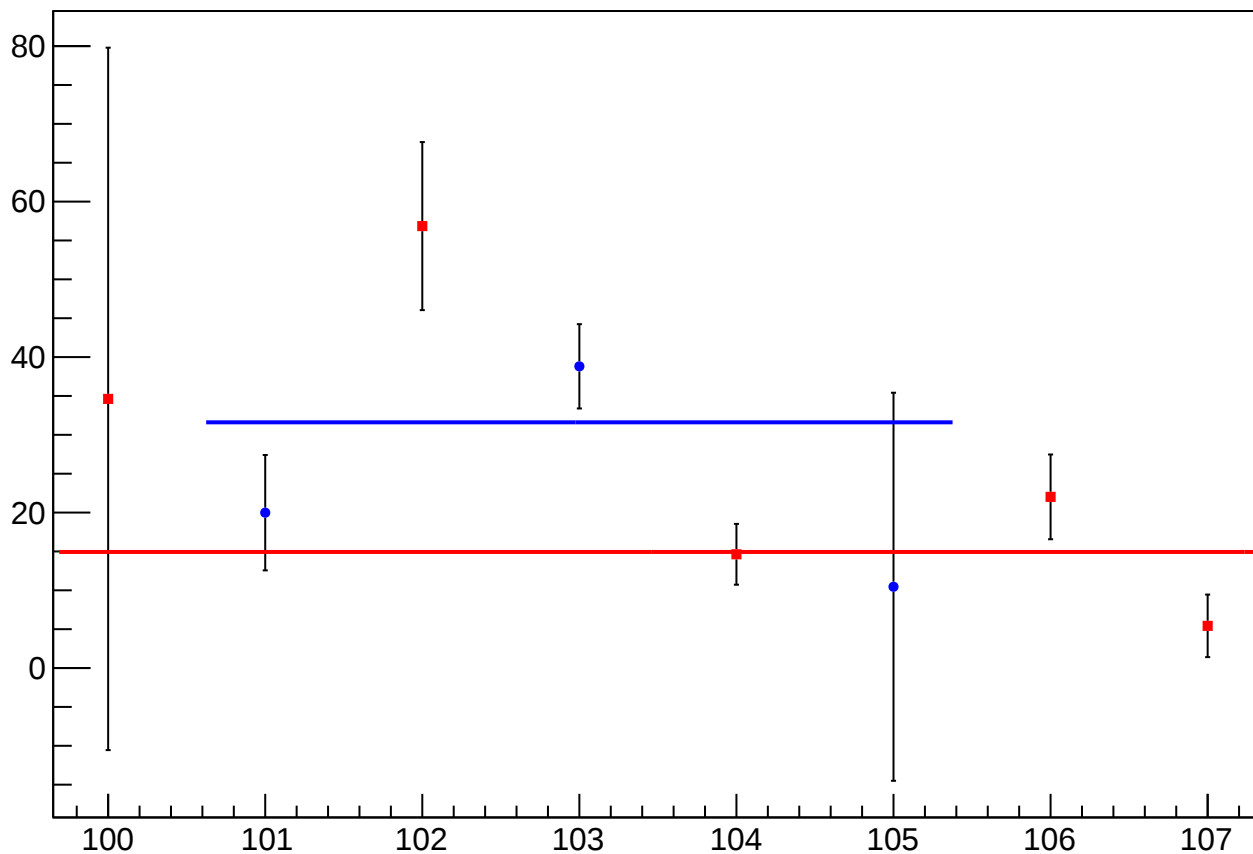
Right Out: -101.809 $\pm$ 4.635  $\chi^2$ /NDF: 11.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-92.687 $\pm$ 6.660  $\chi^2$ /NDF: 19.2/2

-101.809 $\pm$ 4.635  $\chi^2$ /NDF: 11.4/4

reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 31.608+/-4.313  $\chi^2/\text{NDF}$ : 4.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

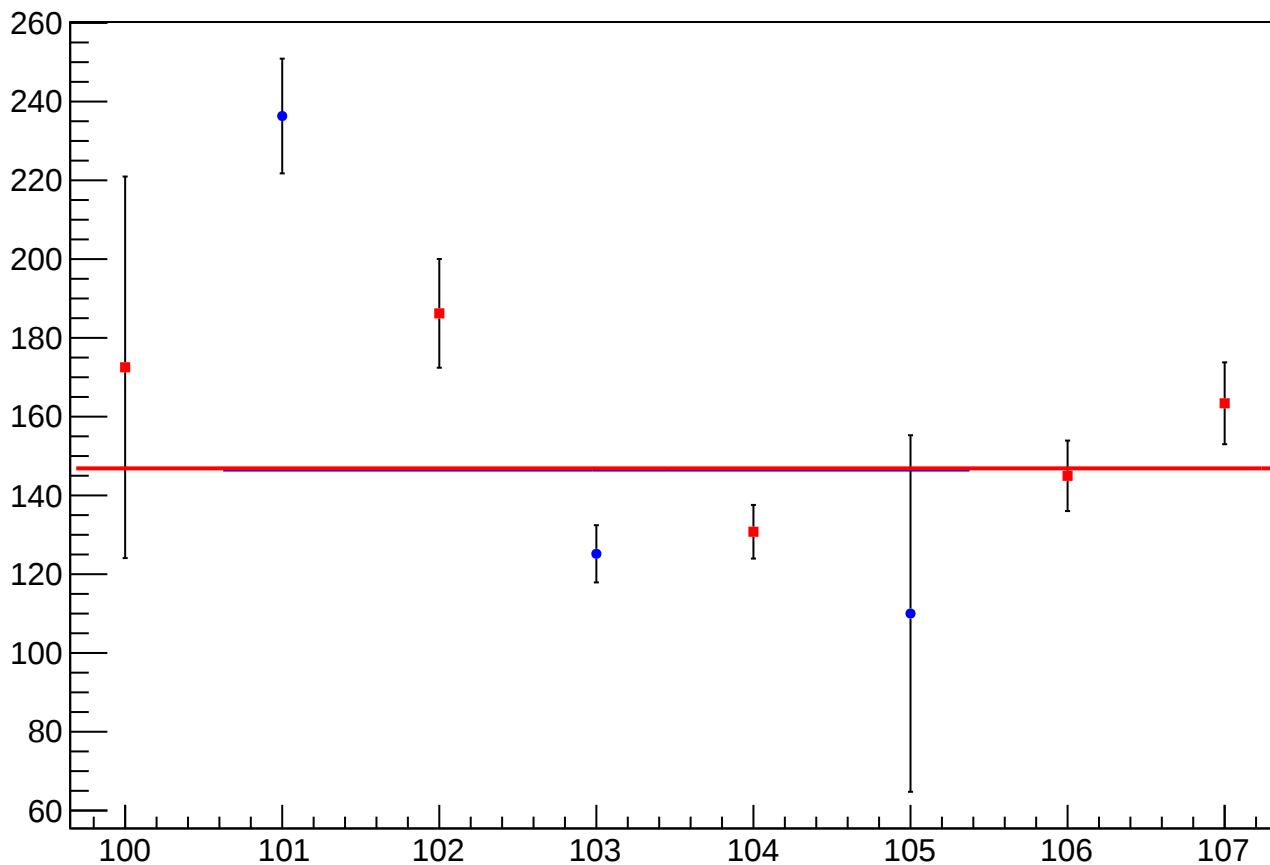
Right Out: 14.933+/-2.427  $\chi^2/\text{NDF}$ : 22.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

31.608+/-4.313  $\chi^2/\text{NDF}$ : 4.9/2

14.933+/-2.427  $\chi^2/\text{NDF}$ : 22.5/4

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 146.571+/-6.434  $\chi^2/\text{NDF}$ : 47.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

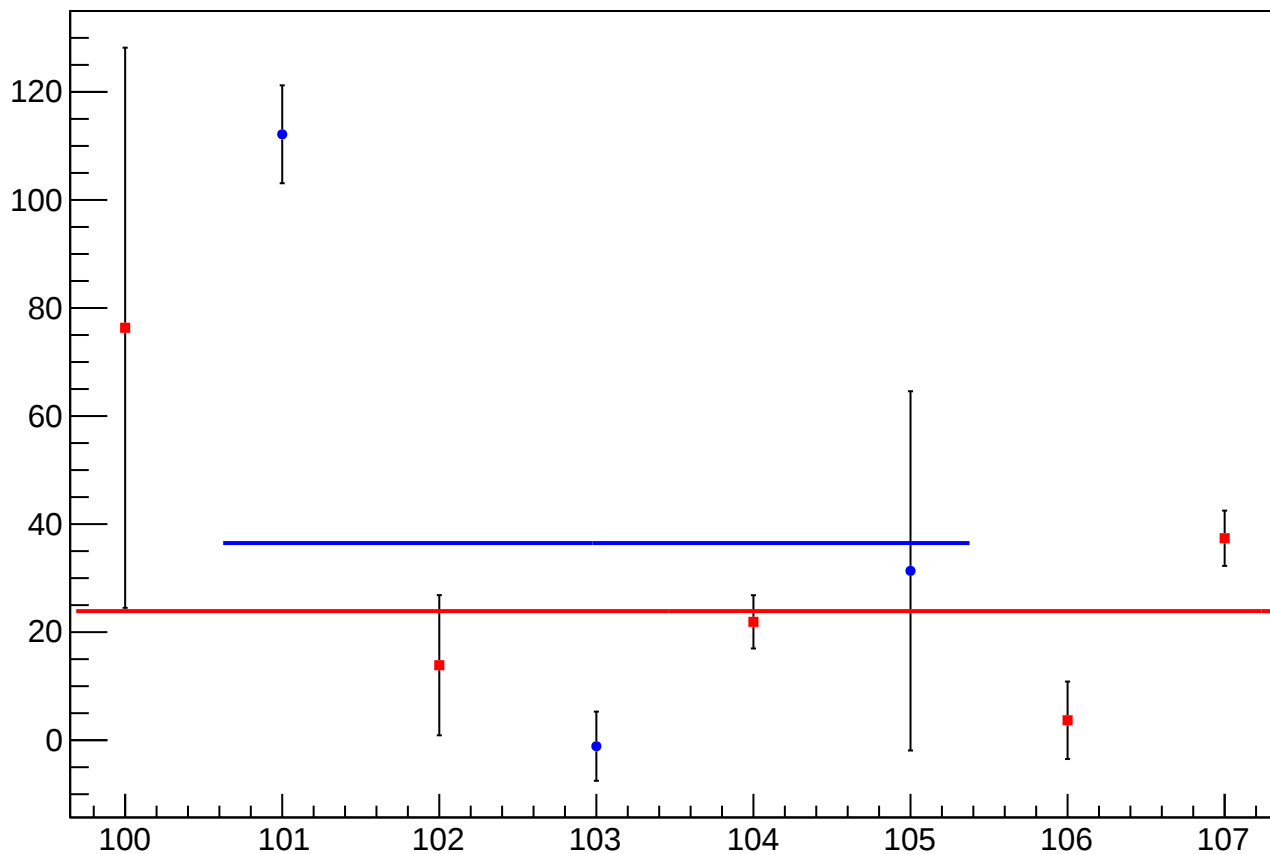
Right Out: 146.870+/-4.519  $\chi^2/\text{NDF}$ : 16.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

146.571+/-6.434  $\chi^2/\text{NDF}$ : 47.3/2

146.870+/-4.519  $\chi^2/\text{NDF}$ : 16.6/4

reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 36.489+/-5.165  $\chi^2$ /NDF: 104.3/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

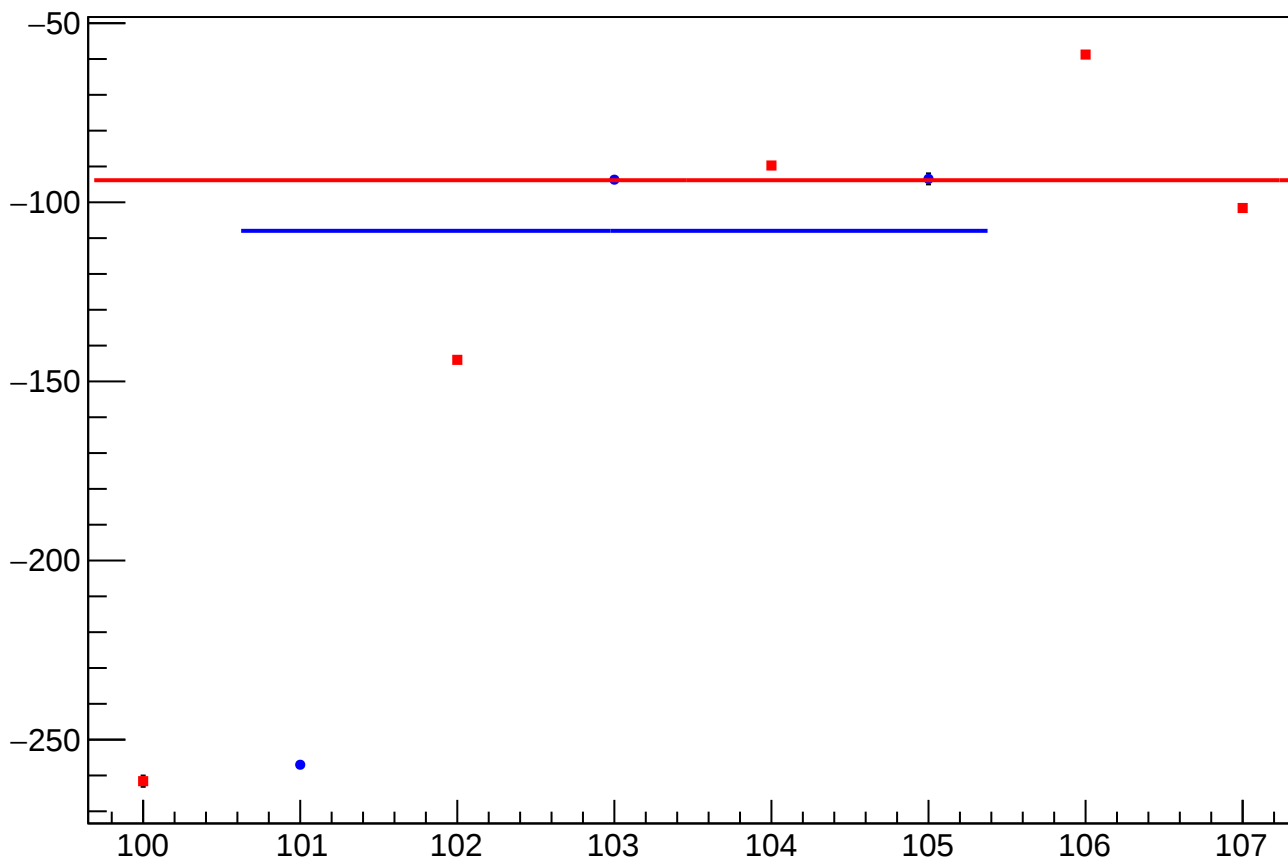
Right Out: 23.893+/-3.085  $\chi^2$ /NDF: 16.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

36.489+/-5.165  $\chi^2$ /NDF: 104.3/2

23.893+/-3.085  $\chi^2$ /NDF: 16.7/4

reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs slug



Right In: -107.962+/-0.155  $\chi^2/\text{NDF}$ : 88825.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

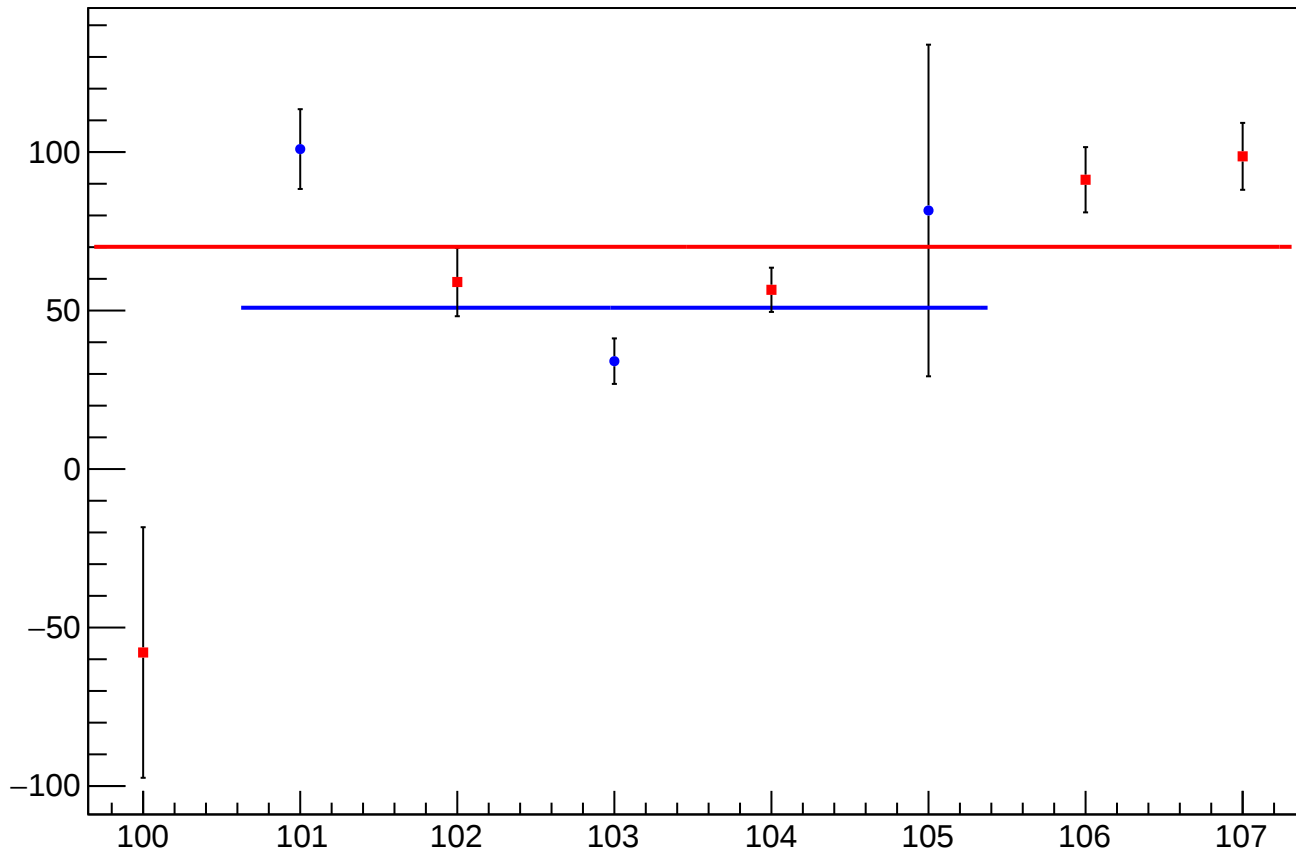
-107.962+/-0.155  $\chi^2/\text{NDF}$ : 88825.5/2

Right Out: -93.835+/-0.114  $\chi^2/\text{NDF}$ : 57768.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-93.835+/-0.114  $\chi^2/\text{NDF}$ : 57768.3/4

# reg\_asym\_atr\_dd\_diff\_bpm4aX\_slope vs slug



Right In:  $50.890 \pm 6.191$   $\chi^2/\text{NDF}: 21.7/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

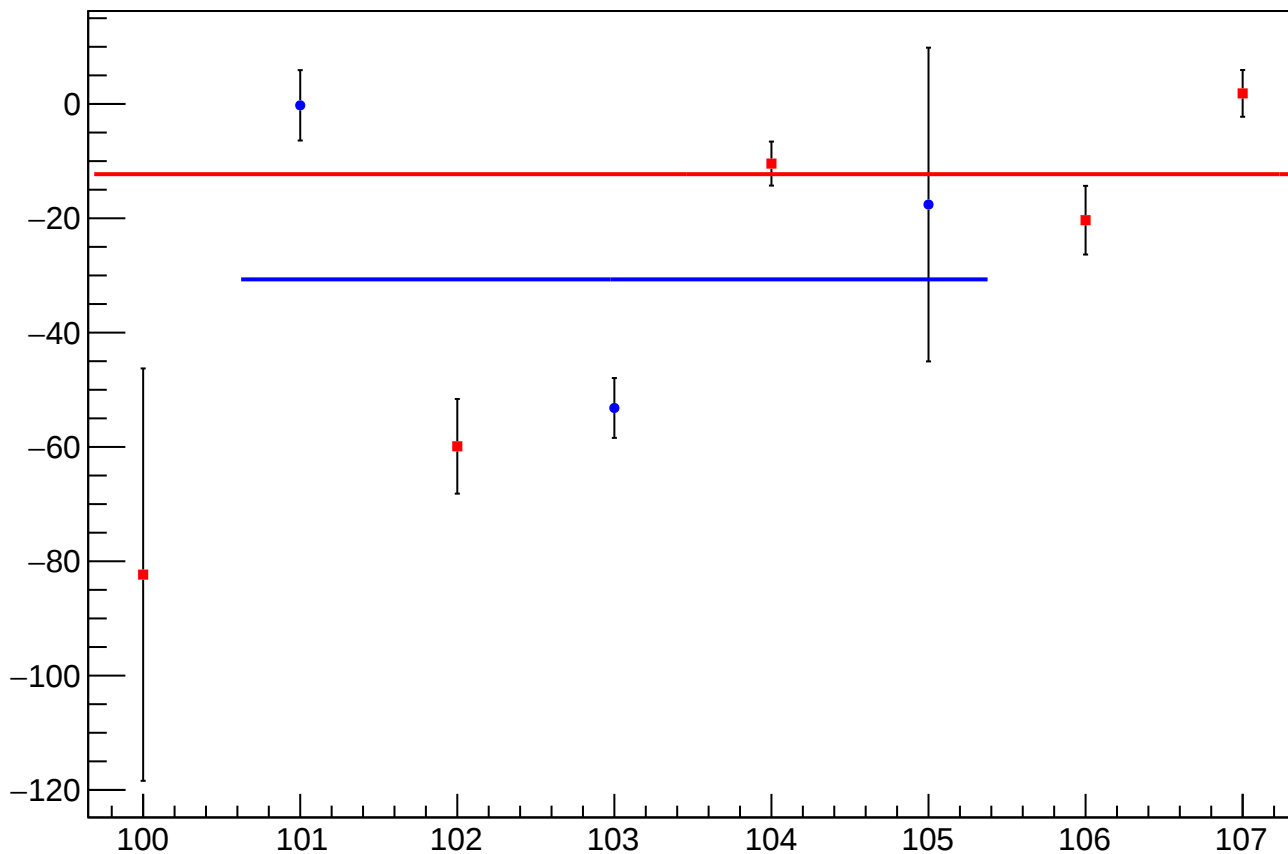
Right Out:  $70.109 \pm 4.557$   $\chi^2/\text{NDF}: 26.9/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$50.890 \pm 6.191$   $\chi^2/\text{NDF}: 21.7/2$

$70.109 \pm 4.557$   $\chi^2/\text{NDF}: 26.9/4$

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -30.688 $\pm$ 3.945  $\chi^2$ /NDF: 43.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

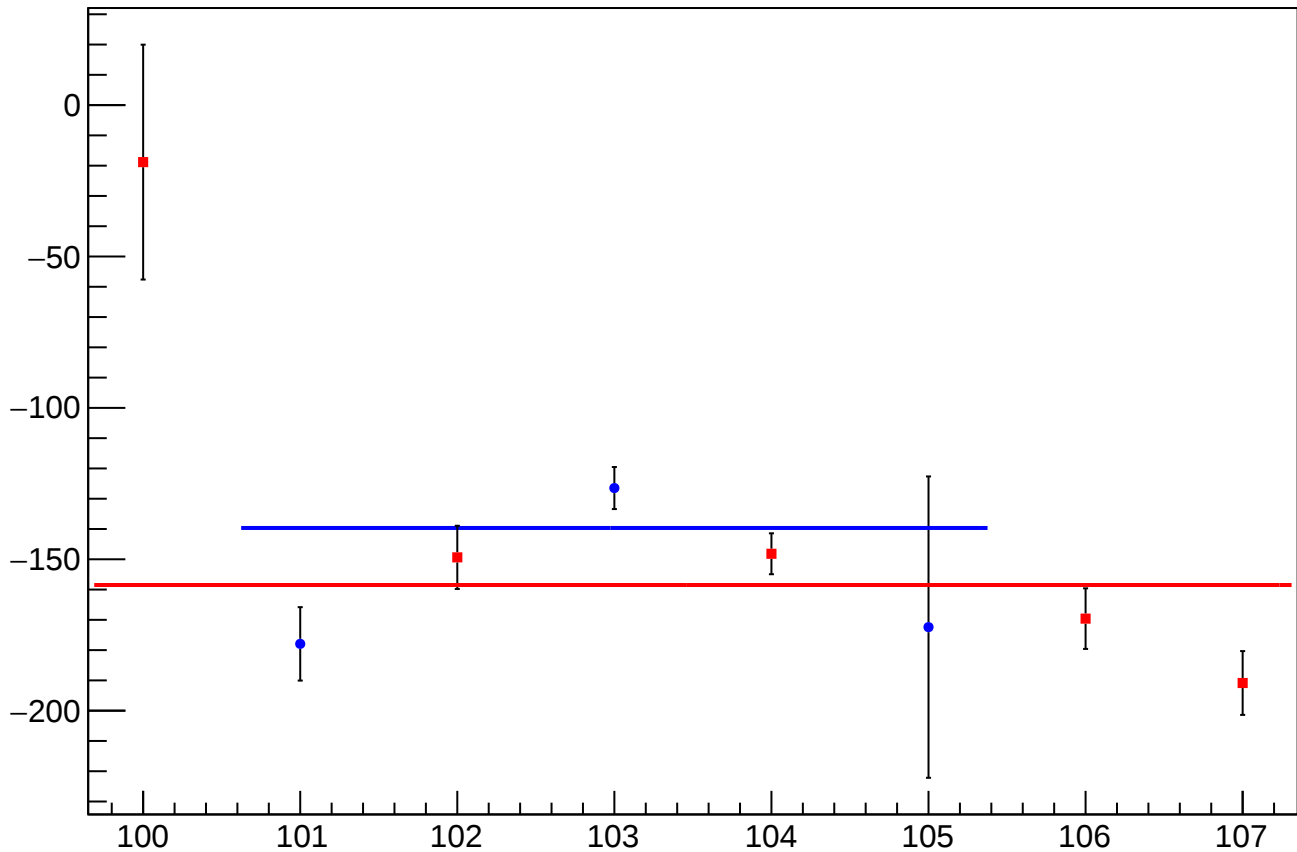
Right Out: -12.282 $\pm$ 2.423  $\chi^2$ /NDF: 50.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-30.688 $\pm$ 3.945  $\chi^2$ /NDF: 43.2/2

-12.282 $\pm$ 2.423  $\chi^2$ /NDF: 50.8/4

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -139.656+/-5.980  $\chi^2/\text{NDF}$ : 14.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

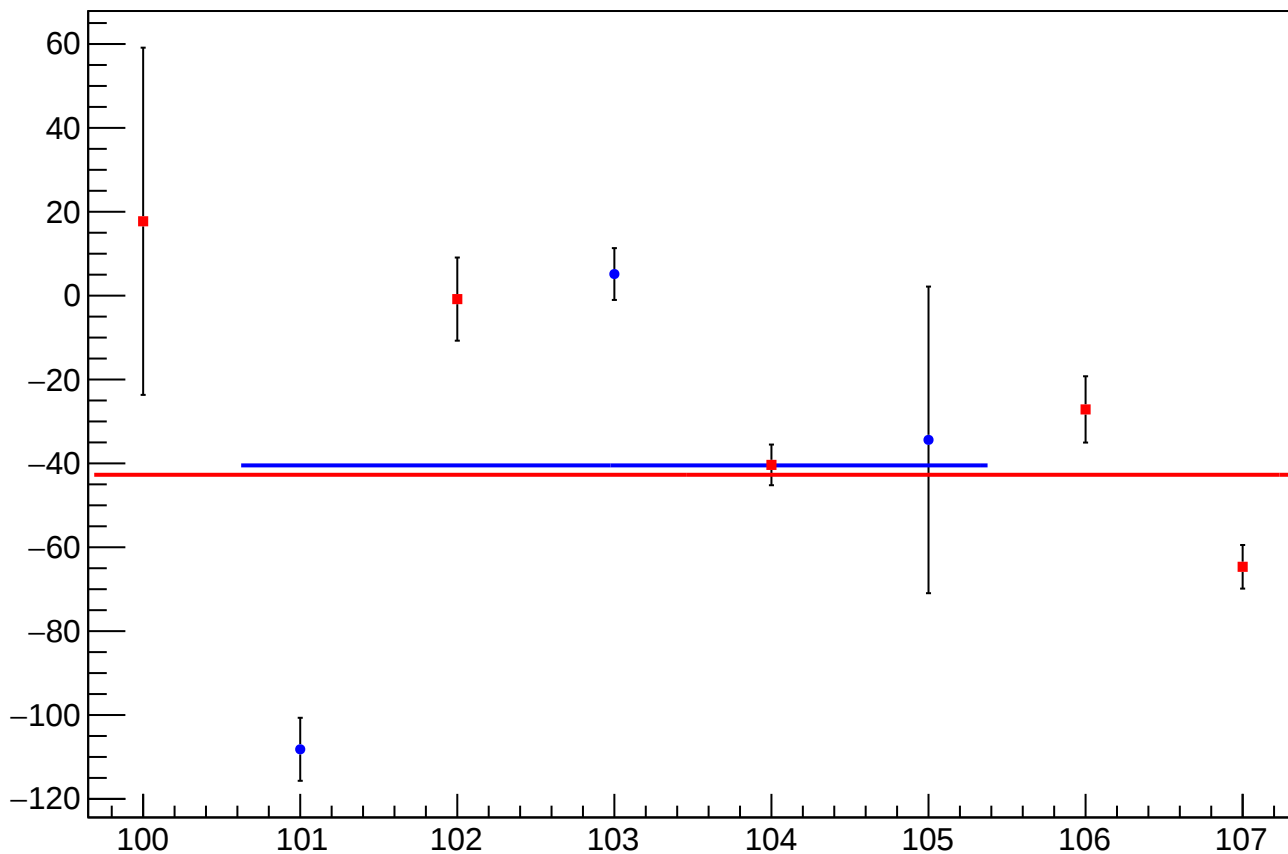
Right Out: -158.494+/-4.439  $\chi^2/\text{NDF}$ : 26.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-139.656+/-5.980  $\chi^2/\text{NDF}$ : 14.0/2

-158.494+/-4.439  $\chi^2/\text{NDF}$ : 26.7/4

# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs slug



Right In:  $-40.478 \pm 4.732$   $\chi^2/\text{NDF}$ : 135.8/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

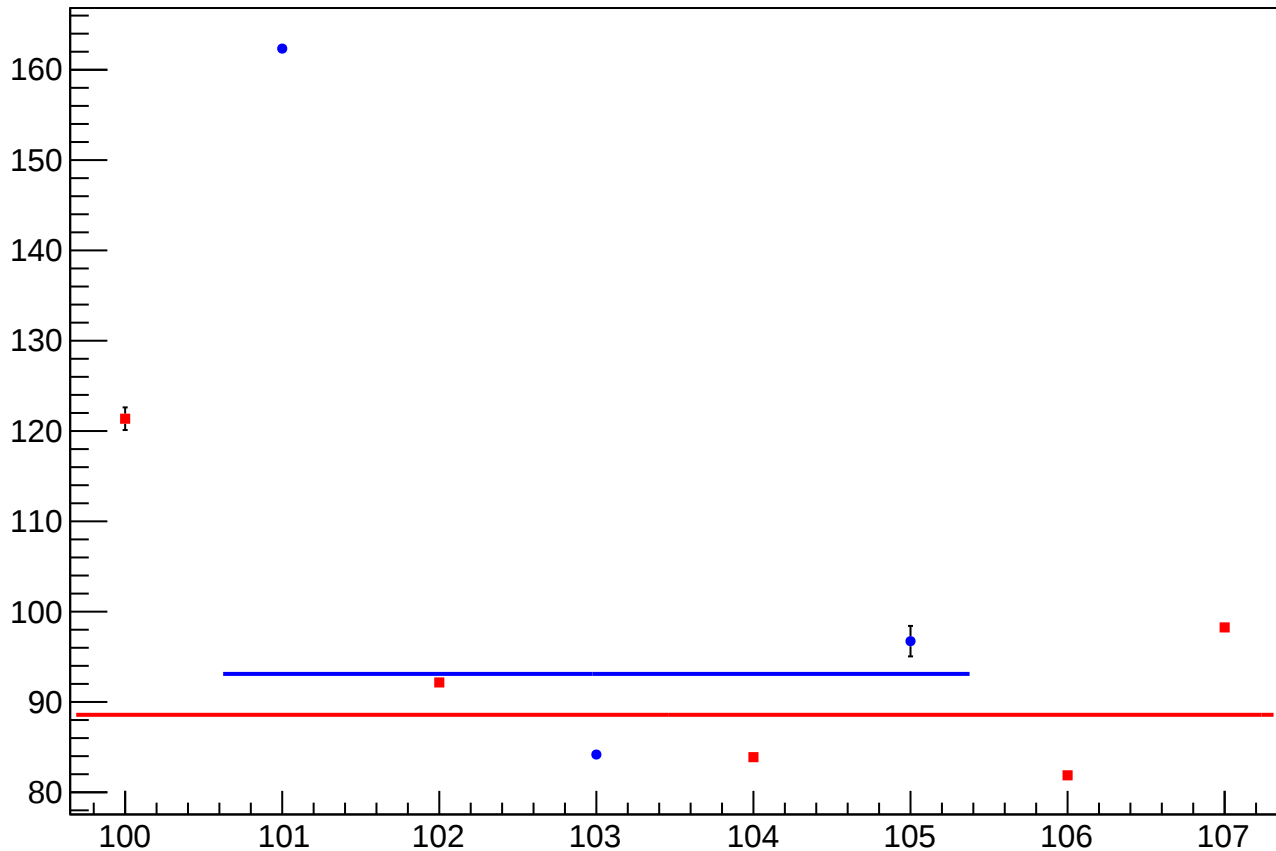
Right Out:  $-42.716 \pm 3.068$   $\chi^2/\text{NDF}$ : 41.9/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-40.478 \pm 4.732$   $\chi^2/\text{NDF}$ : 135.8/2

$-42.716 \pm 3.068$   $\chi^2/\text{NDF}$ : 41.9/4

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs slug



Right In: 93.107+/-0.146  $\chi^2/\text{NDF}$ : 28710.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

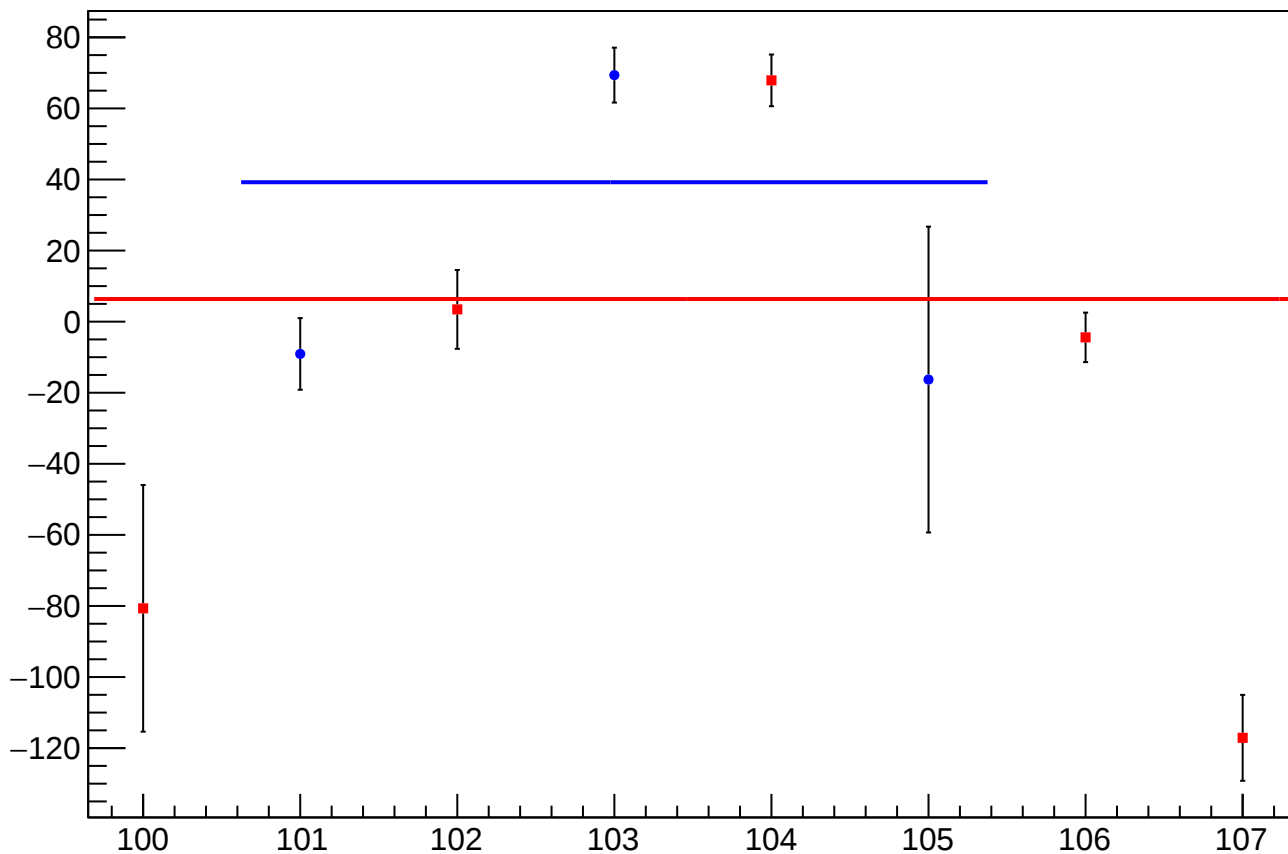
Right Out: 88.579+/-0.110  $\chi^2/\text{NDF}$ : 3853.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

93.107+/-0.146  $\chi^2/\text{NDF}$ : 28710.6/2

88.579+/-0.110  $\chi^2/\text{NDF}$ : 3853.5/4

# reg\_asym\_at1\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 39.231+/-6.070  $\chi^2/\text{NDF}$ : 39.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

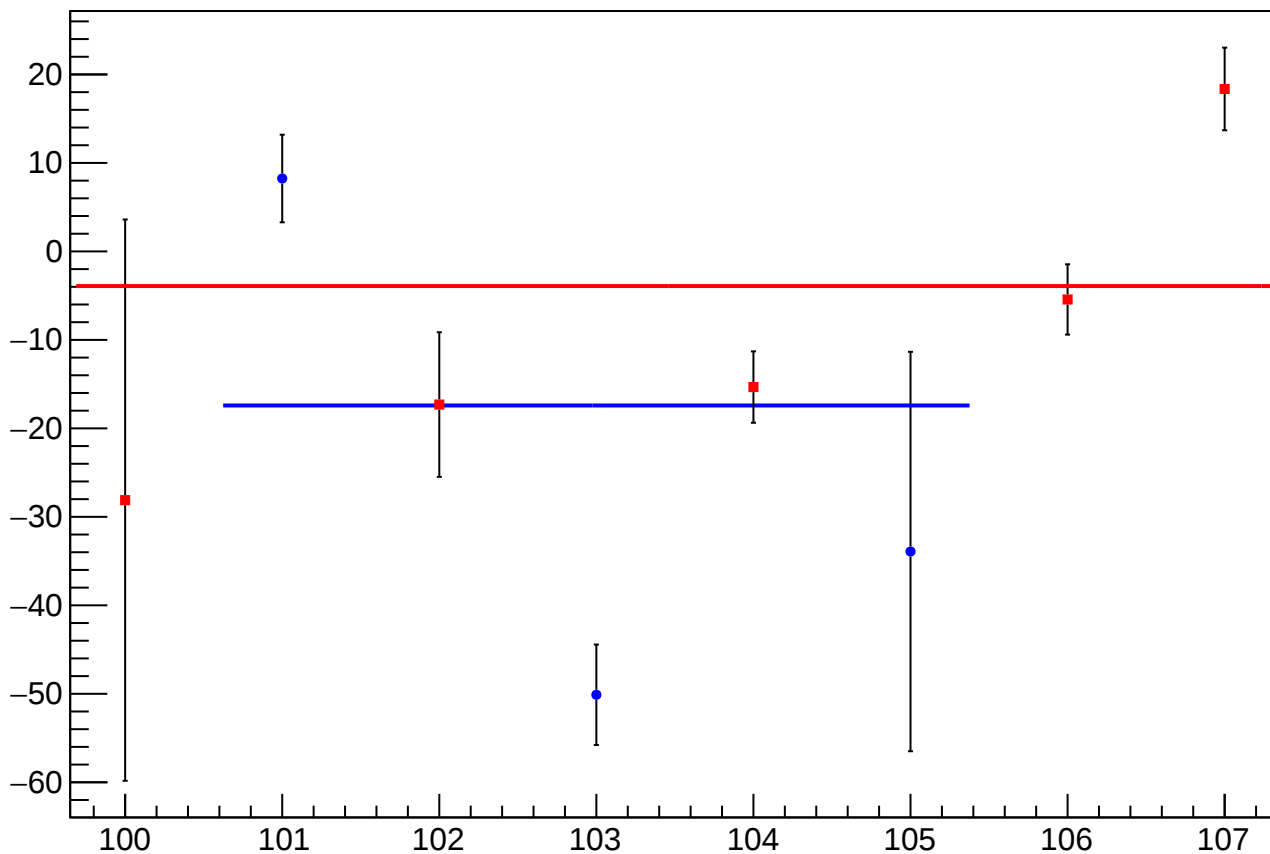
Right Out: 6.371+/-4.252  $\chi^2/\text{NDF}$ : 184.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

39.231+/-6.070  $\chi^2/\text{NDF}$ : 39.8/2

6.371+/-4.252  $\chi^2/\text{NDF}$ : 184.7/4

reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs slug



Right In: -17.412 $\pm$ 3.682  $\chi^2$ /NDF: 60.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

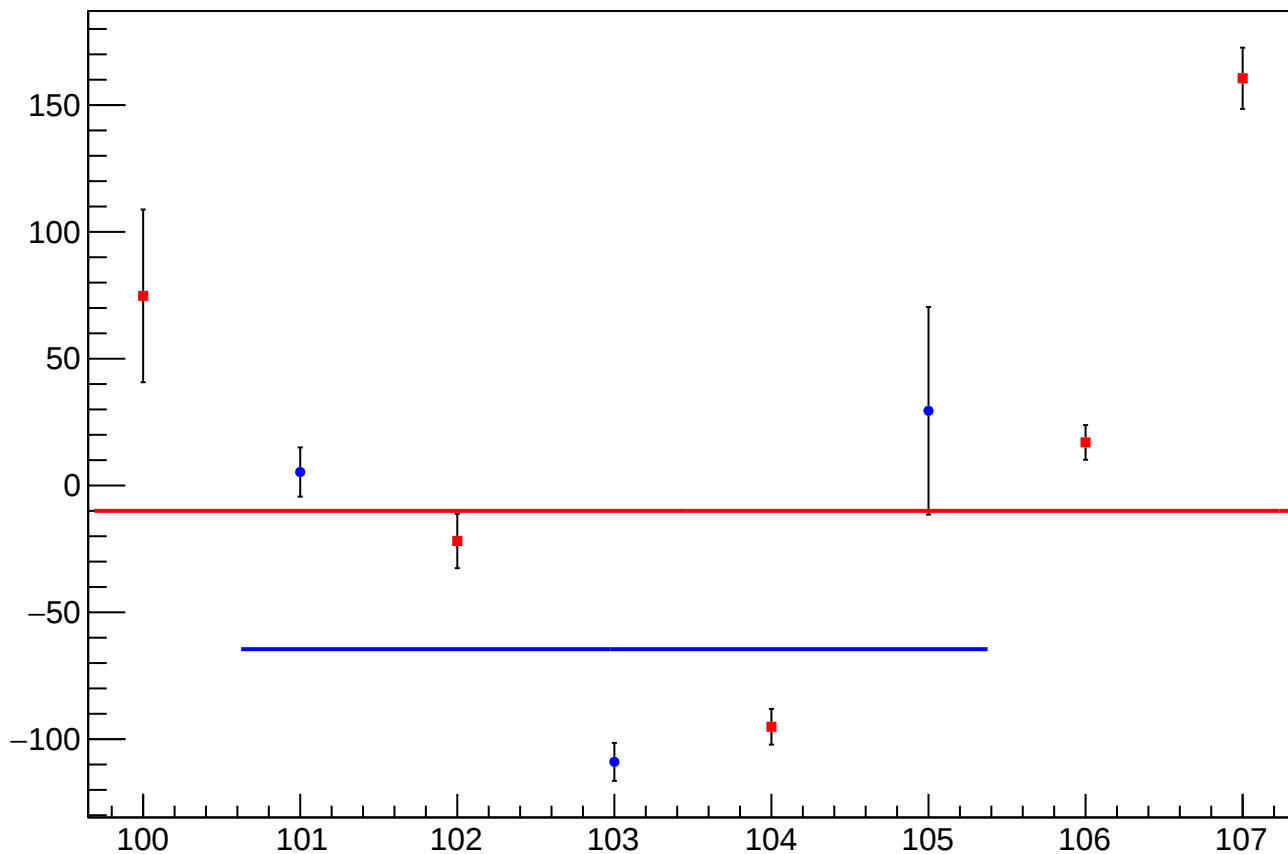
Right Out: -3.914 $\pm$ 2.315  $\chi^2$ /NDF: 34.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-17.412 $\pm$ 3.682  $\chi^2$ /NDF: 60.5/2

-3.914 $\pm$ 2.315  $\chi^2$ /NDF: 34.2/4

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs slug



Right In: -64.527 $\pm$ 5.861  $\chi^2$ /NDF: 92.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

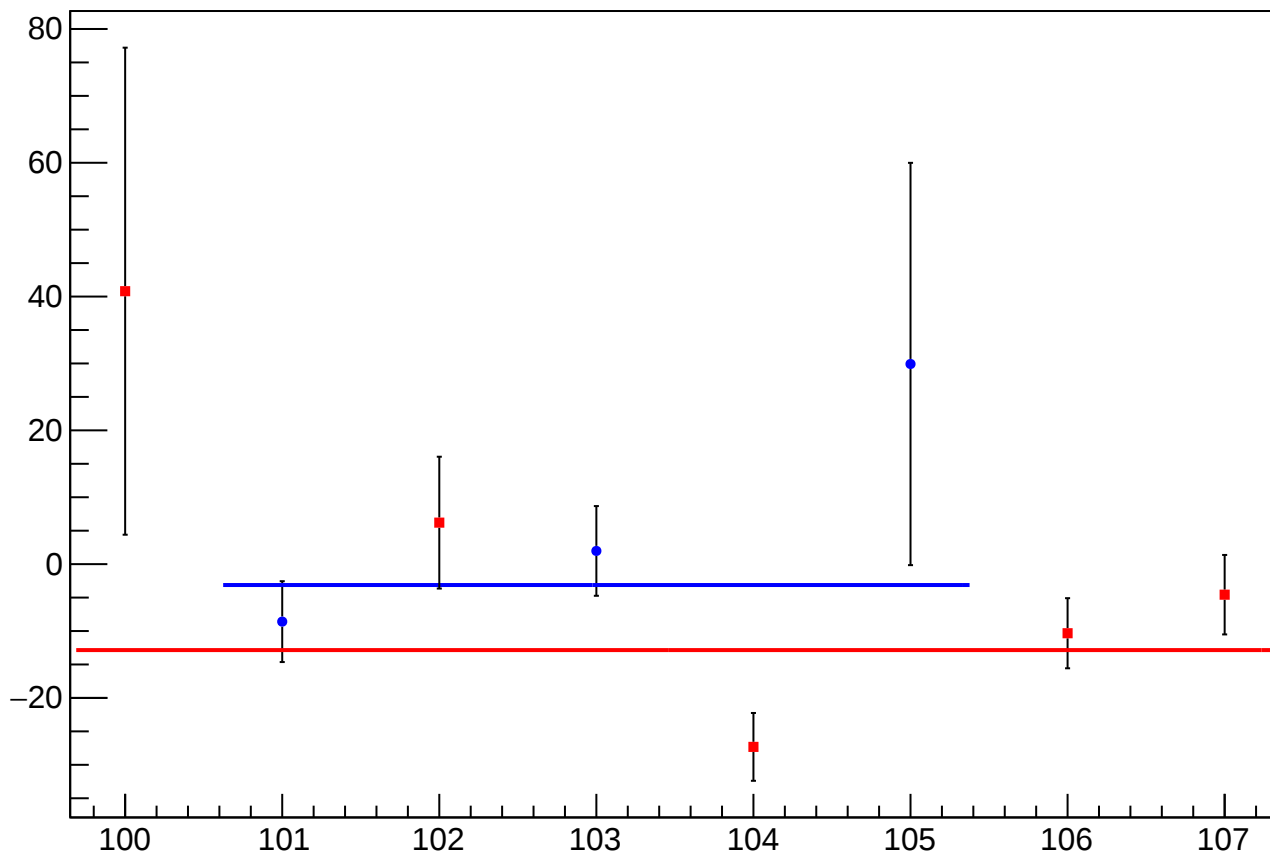
Right Out: -9.990 $\pm$ 4.155  $\chi^2$ /NDF: 369.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-64.527 $\pm$ 5.861  $\chi^2$ /NDF: 92.3/2

-9.990 $\pm$ 4.155  $\chi^2$ /NDF: 369.0/4

# reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs slug



Right In: -3.122+/-4.440  $\chi^2/\text{NDF}$ : 2.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

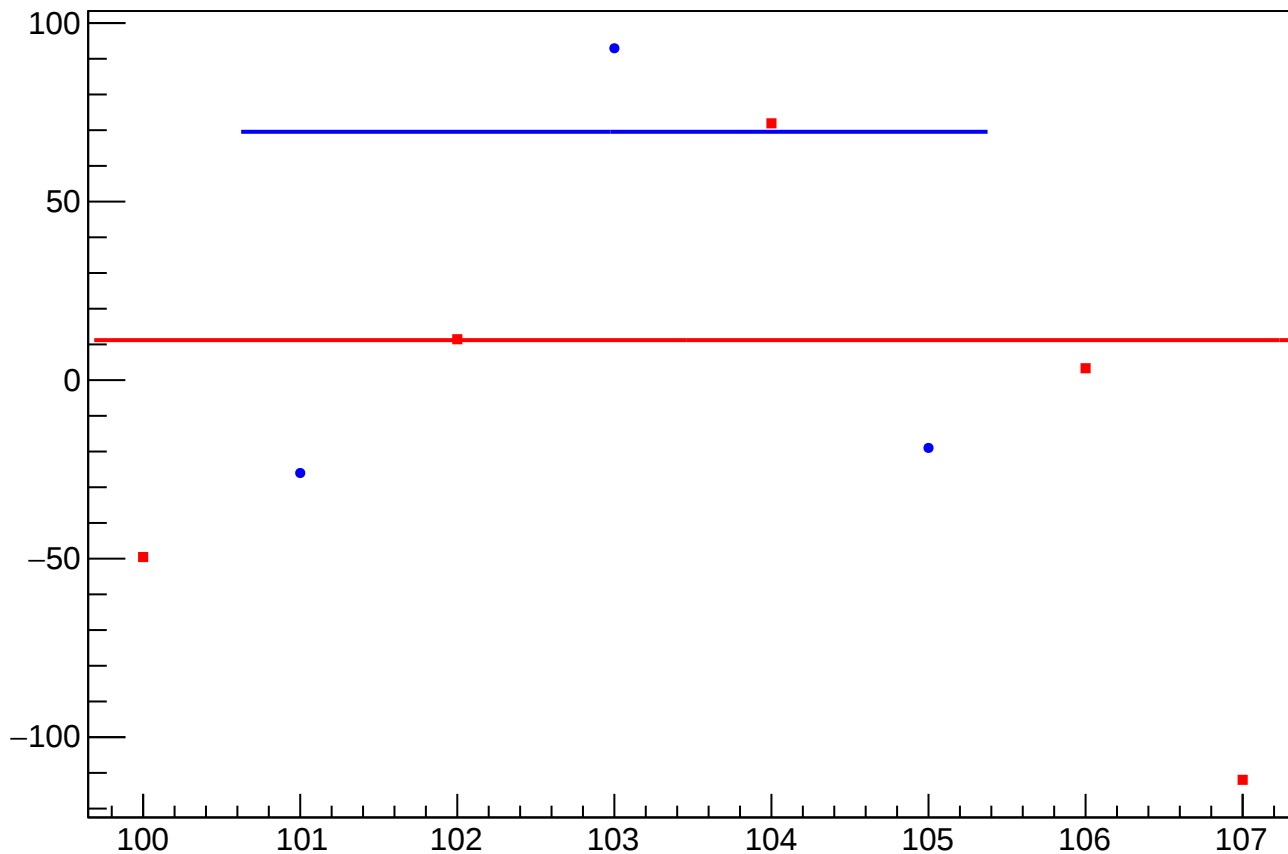
Right Out: -12.849+/-2.953  $\chi^2/\text{NDF}$ : 16.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-3.122+/-4.440  $\chi^2/\text{NDF}$ : 2.6/2

-12.849+/-2.953  $\chi^2/\text{NDF}$ : 16.2/4

# reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs slug



Right In: 69.552+/-0.150  $\chi^2/\text{NDF}$ : 98863.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

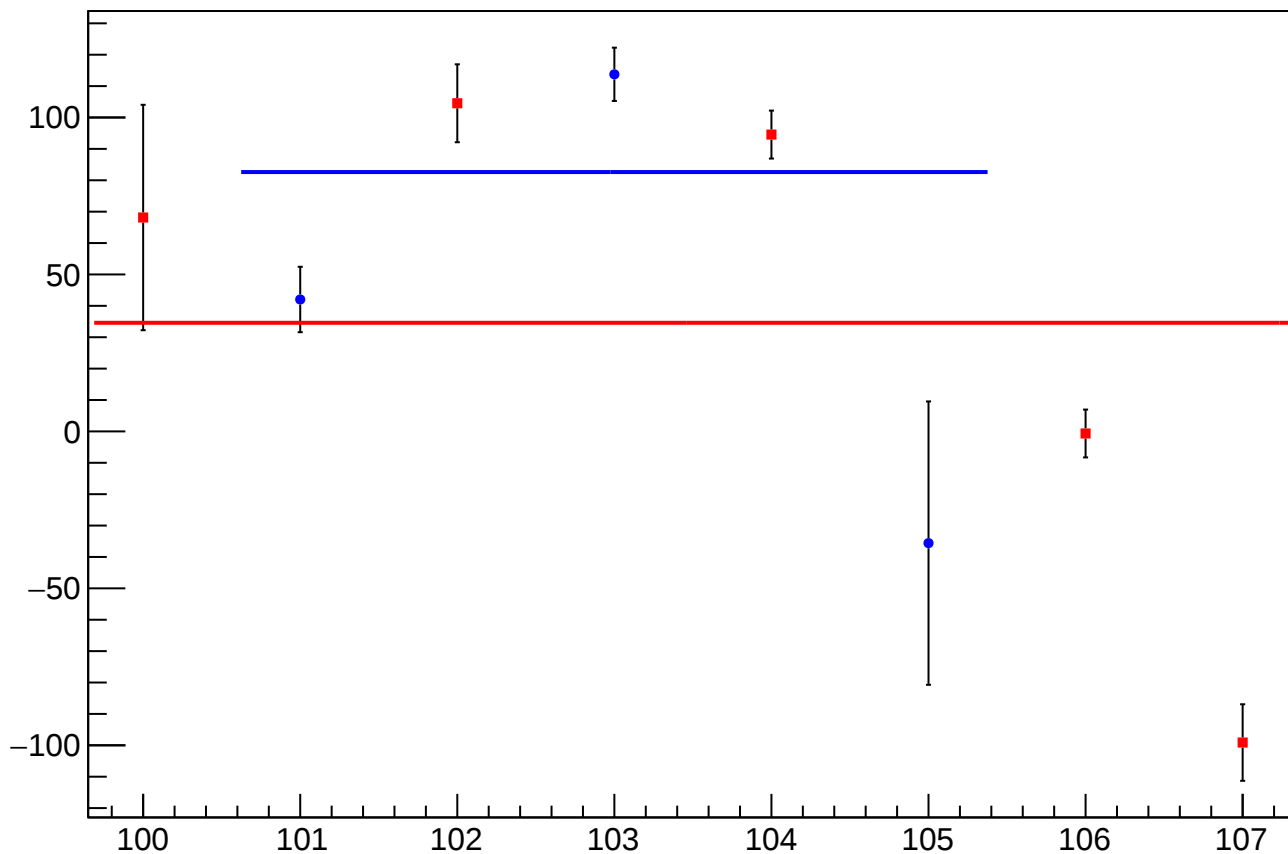
Right Out: 11.200+/-0.104  $\chi^2/\text{NDF}$ : 317514.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

69.552+/-0.150  $\chi^2/\text{NDF}$ : 98863.3/2

11.200+/-0.104  $\chi^2/\text{NDF}$ : 317514.9/4

# reg\_asym\_at1\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 82.619+/-6.513  $\chi^2/\text{NDF}$ : 35.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

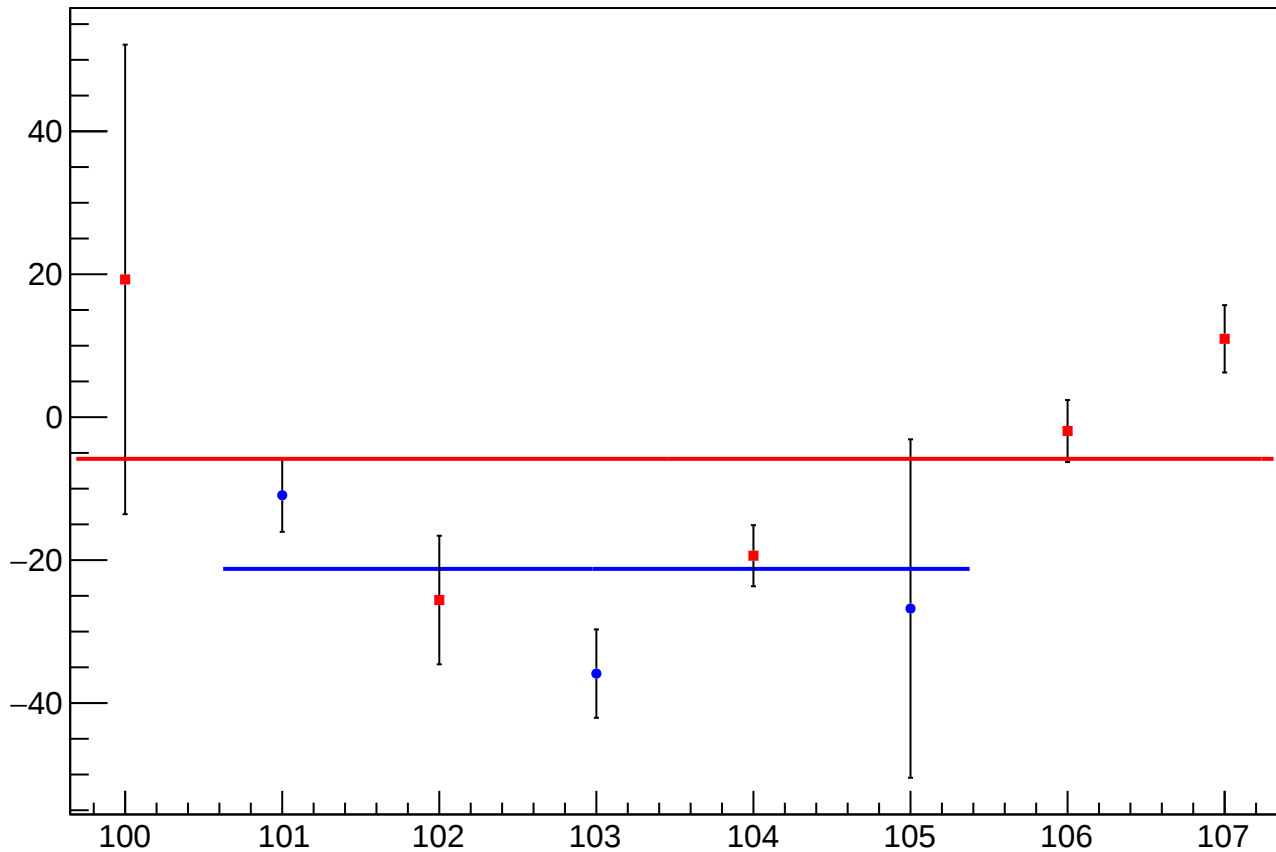
Right Out: 34.602+/-4.548  $\chi^2/\text{NDF}$ : 235.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

82.619+/-6.513  $\chi^2/\text{NDF}$ : 35.5/2

34.602+/-4.548  $\chi^2/\text{NDF}$ : 235.9/4

# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -21.228 $\pm$ 3.892  $\chi^2$ /NDF: 9.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

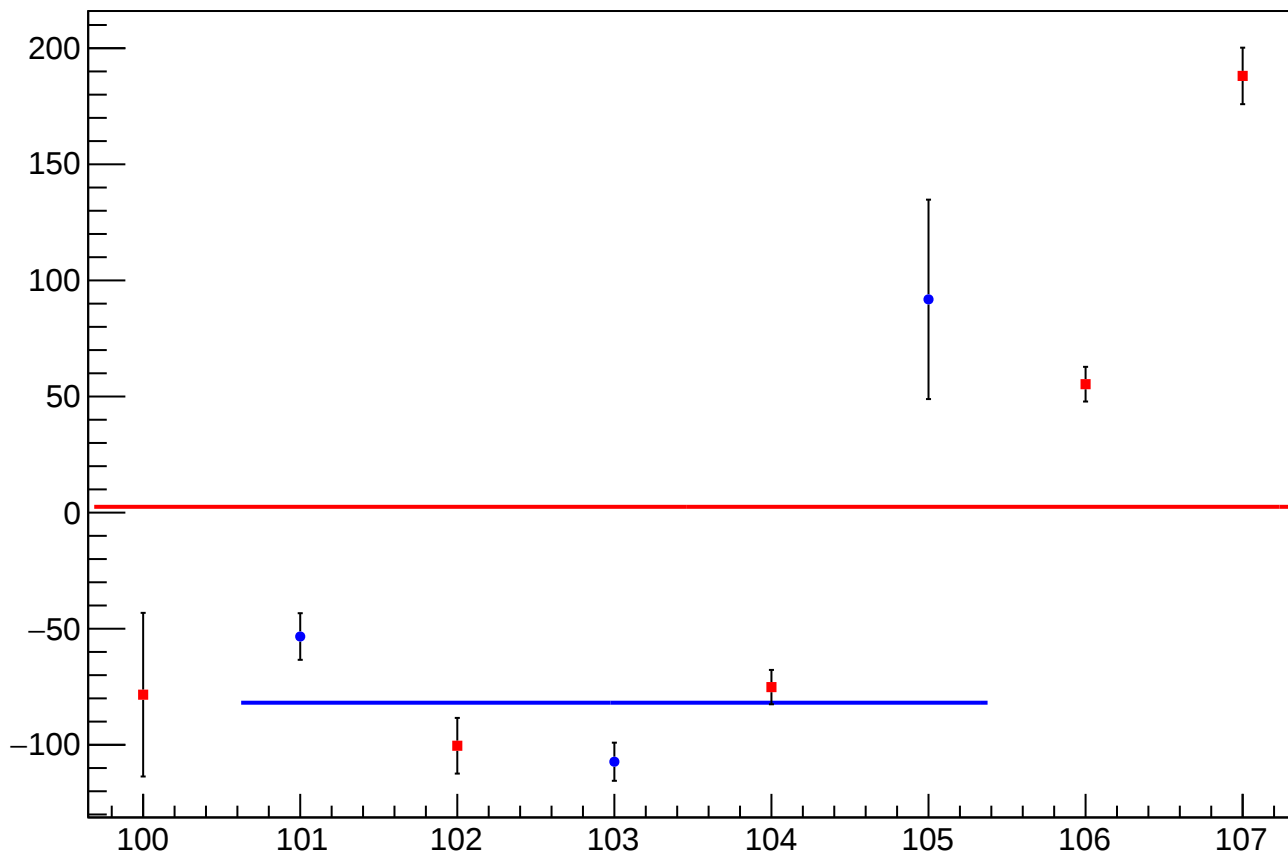
Right Out: -5.828 $\pm$ 2.454  $\chi^2$ /NDF: 29.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-21.228 $\pm$ 3.892  $\chi^2$ /NDF: 9.7/2

-5.828 $\pm$ 2.454  $\chi^2$ /NDF: 29.0/4

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -81.864+/-6.287  $\chi^2/\text{NDF}$ : 34.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

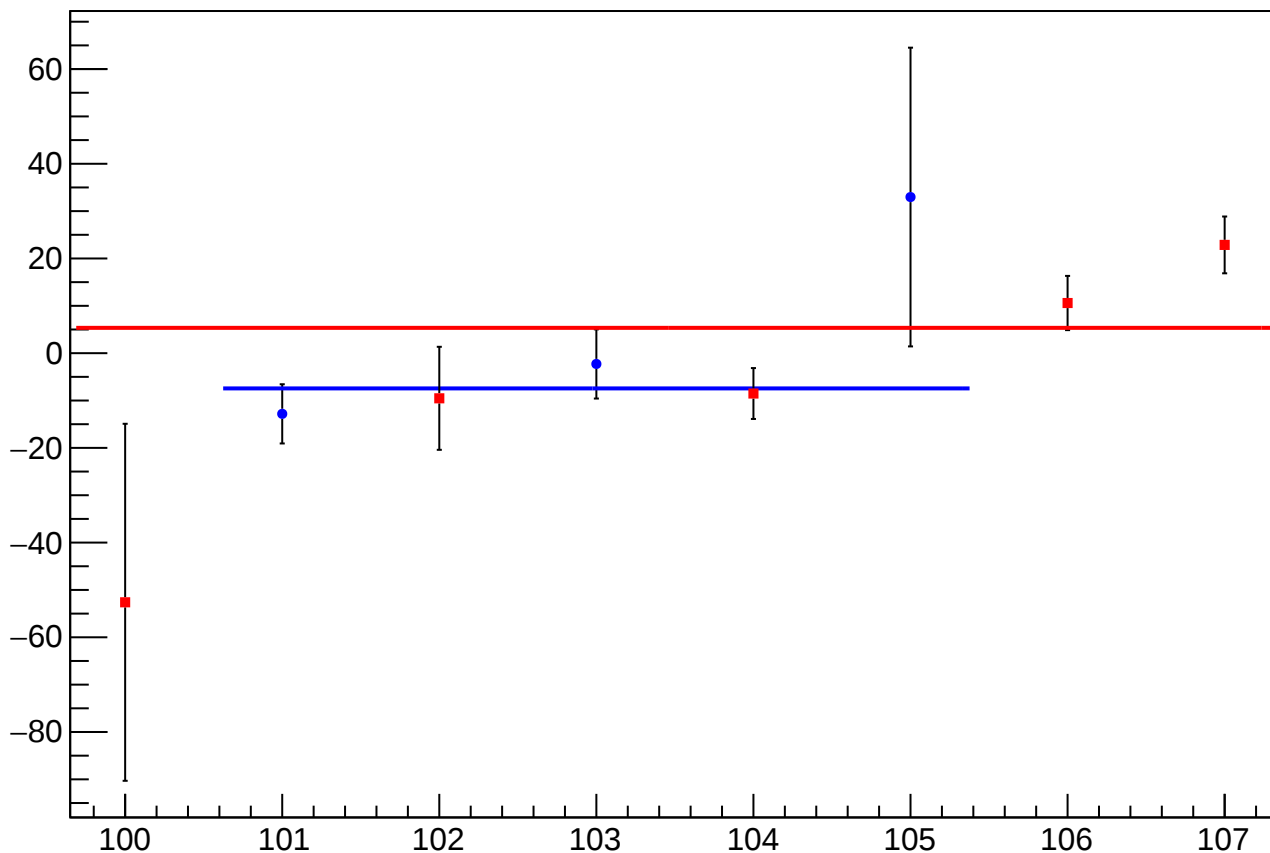
Right Out: 2.499+/-4.441  $\chi^2/\text{NDF}$ : 471.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-81.864+/-6.287  $\chi^2/\text{NDF}$ : 34.0/2

2.499+/-4.441  $\chi^2/\text{NDF}$ : 471.7/4

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -7.441 $\pm$ 4.697  $\chi^2$ /NDF: 2.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

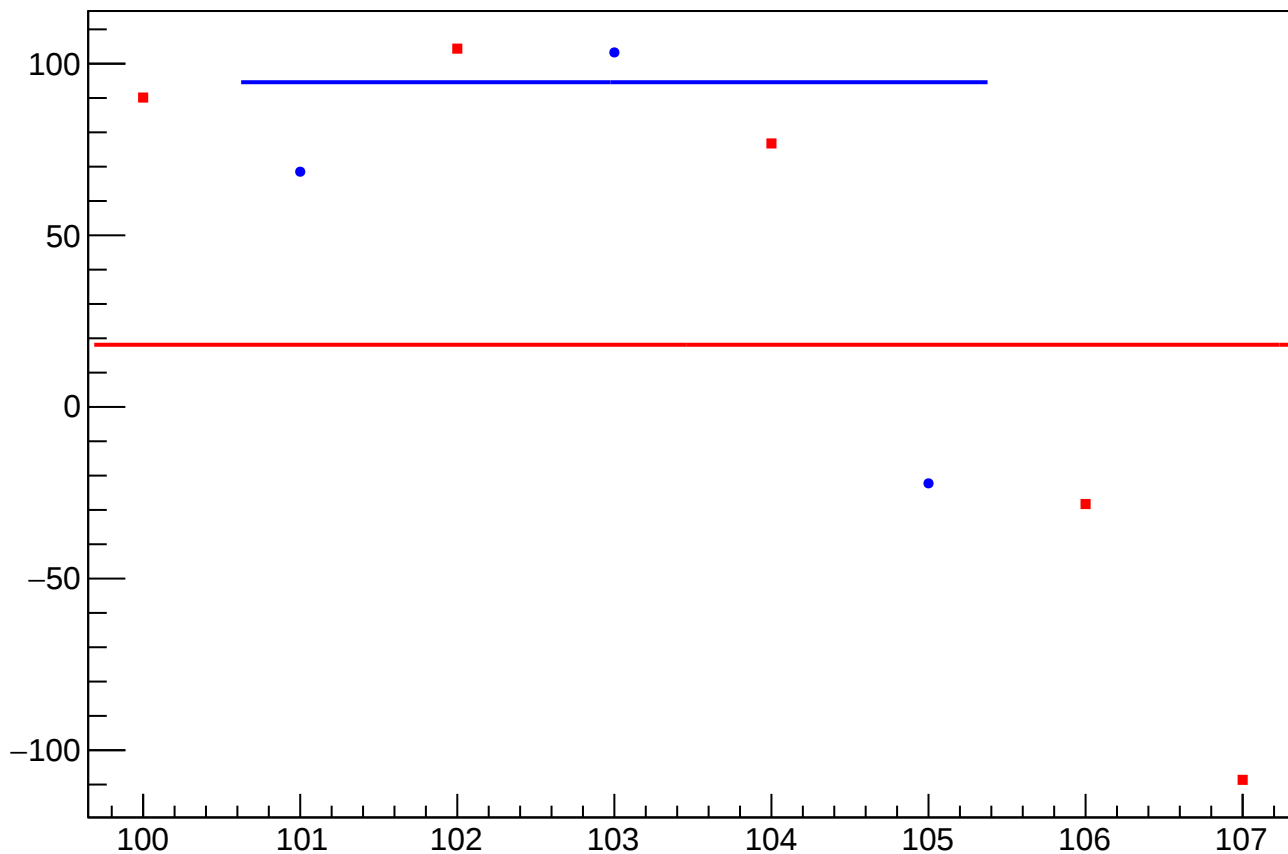
Right Out: 5.350 $\pm$ 3.130  $\chi^2$ /NDF: 20.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-7.441 $\pm$ 4.697  $\chi^2$ /NDF: 2.9/2

5.350 $\pm$ 3.130  $\chi^2$ /NDF: 20.3/4

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs slug



Right In: 94.598+/-0.163  $\chi^2/\text{NDF}$ : 13902.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

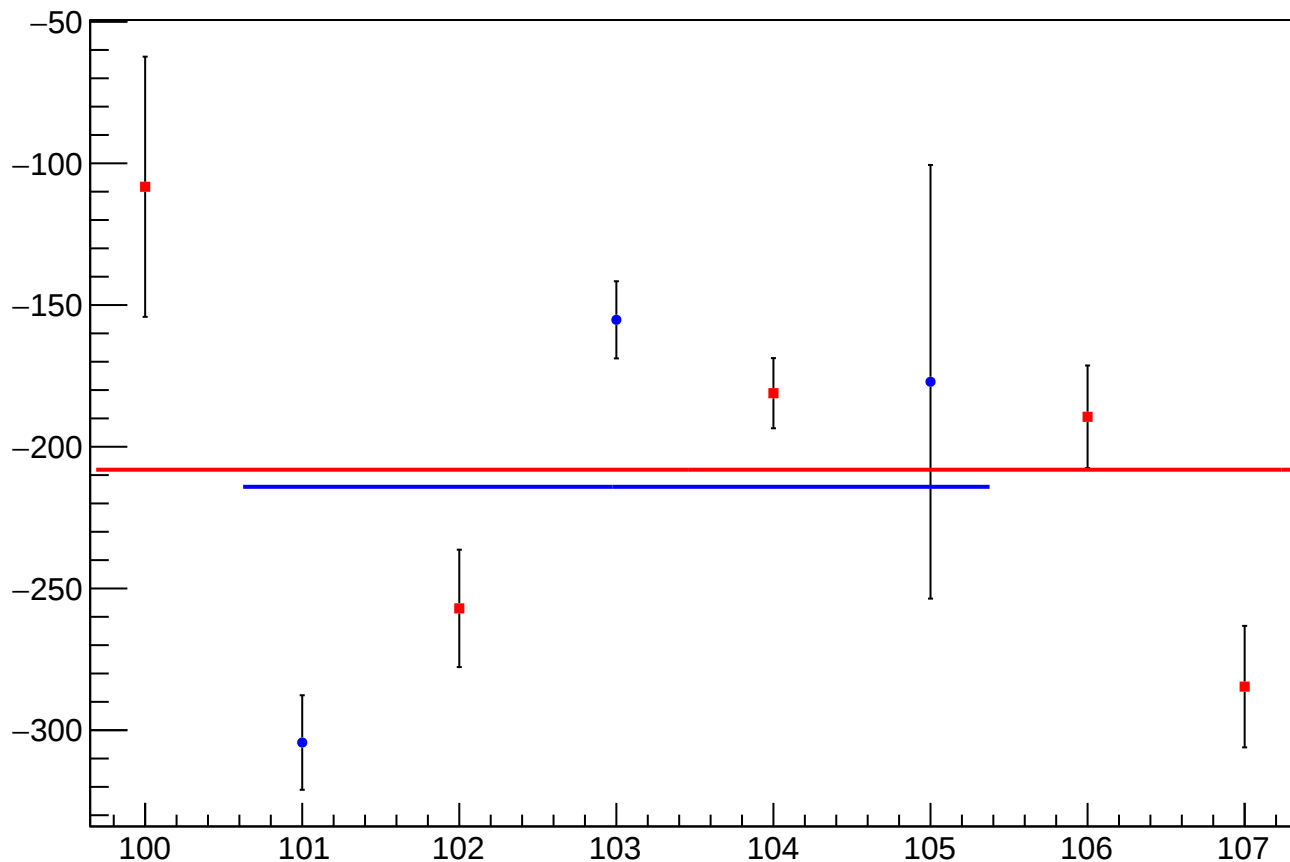
Right Out: 18.121+/-0.111  $\chi^2/\text{NDF}$ : 457871.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

94.598+/-0.163  $\chi^2/\text{NDF}$ : 13902.3/2

18.121+/-0.111  $\chi^2/\text{NDF}$ : 457871.4/4

# reg\_asym\_at2\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -214.132 $\pm$ 10.445  $\chi^2$ /NDF: 48.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

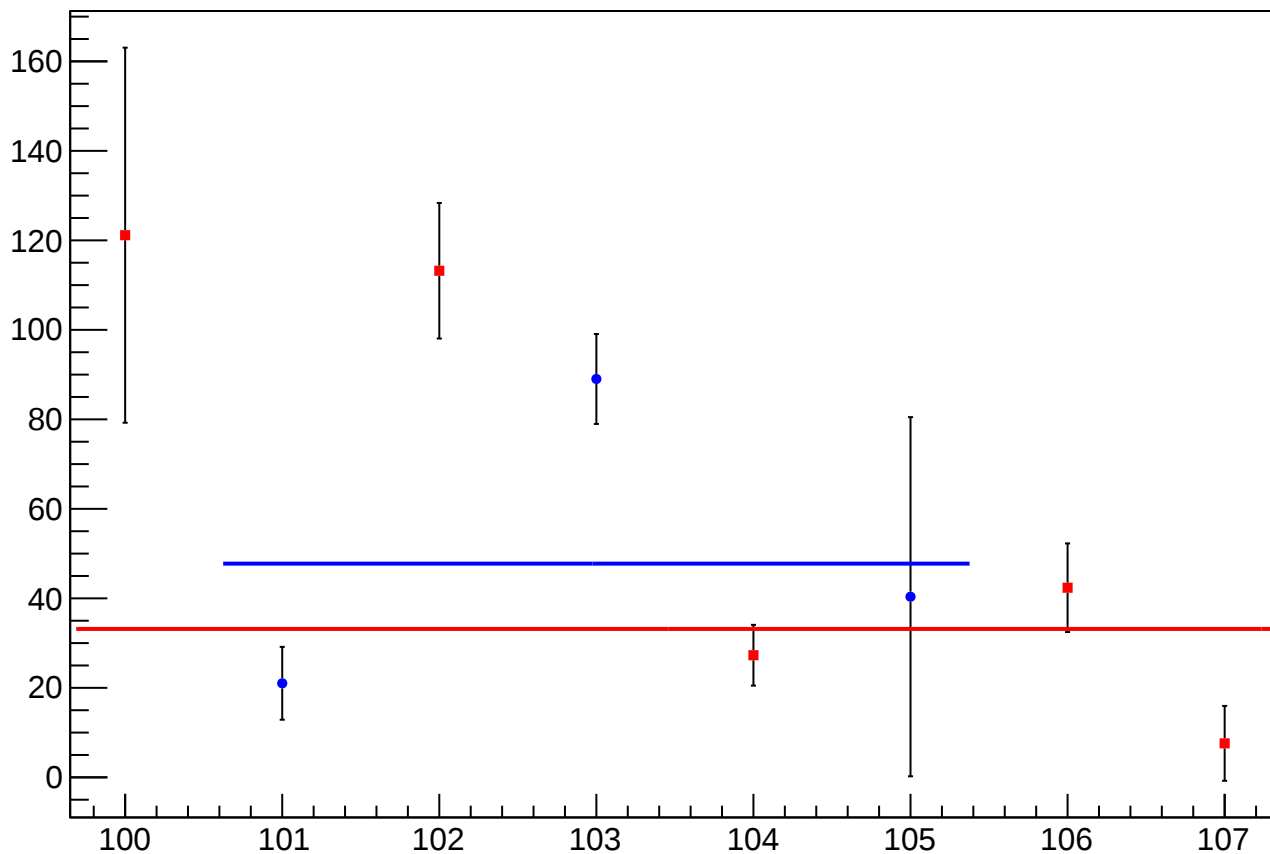
Right Out: -208.099 $\pm$ 8.286  $\chi^2$ /NDF: 28.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-214.132 $\pm$ 10.445  $\chi^2$ /NDF: 48.2/2

-208.099 $\pm$ 8.286  $\chi^2$ /NDF: 28.9/4

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 47.759+/-6.248  $\chi^2/\text{NDF}$ : 27.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

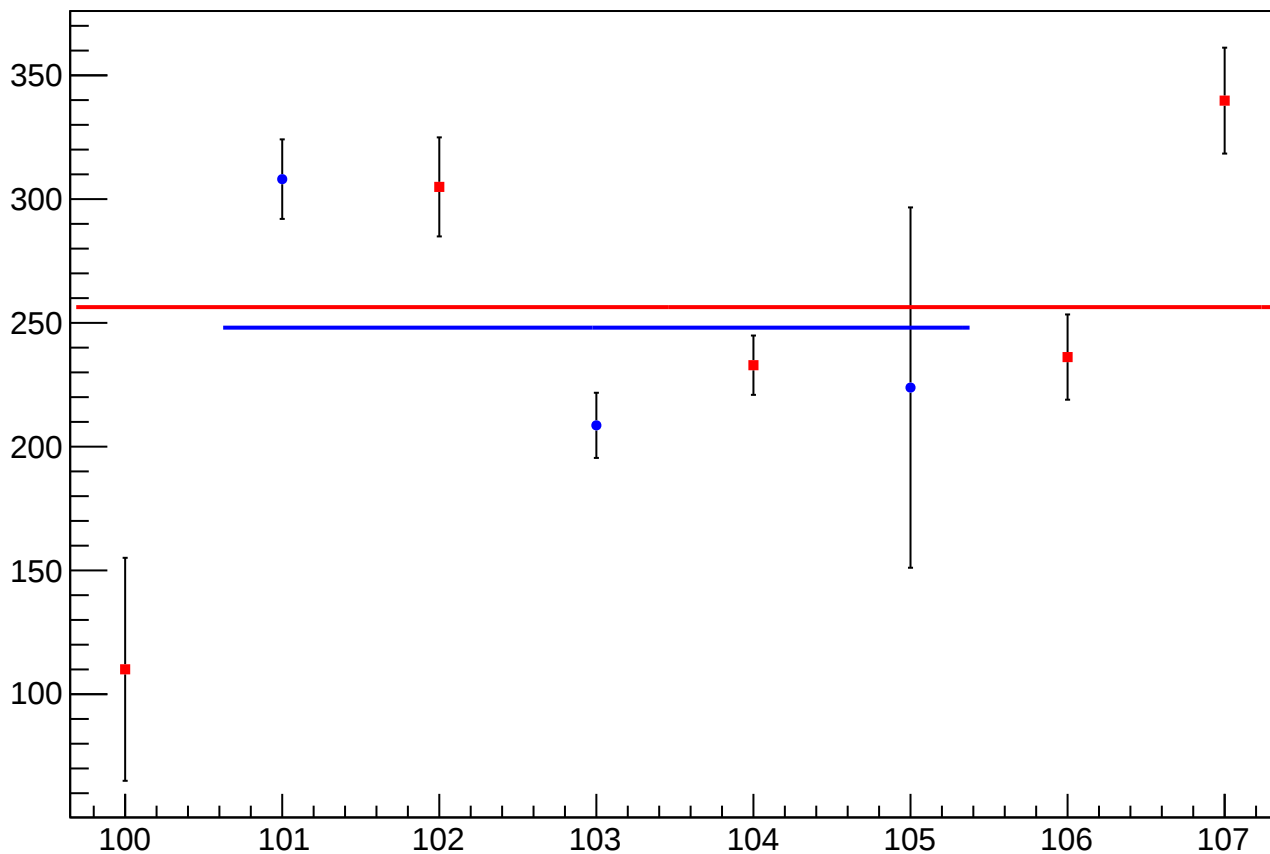
Right Out: 33.163+/-4.423  $\chi^2/\text{NDF}$ : 43.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

47.759+/-6.248  $\chi^2/\text{NDF}$ : 27.7/2

33.163+/-4.423  $\chi^2/\text{NDF}$ : 43.3/4

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 248.074 $\pm$ 10.084  $\chi^2$ /NDF: 23.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

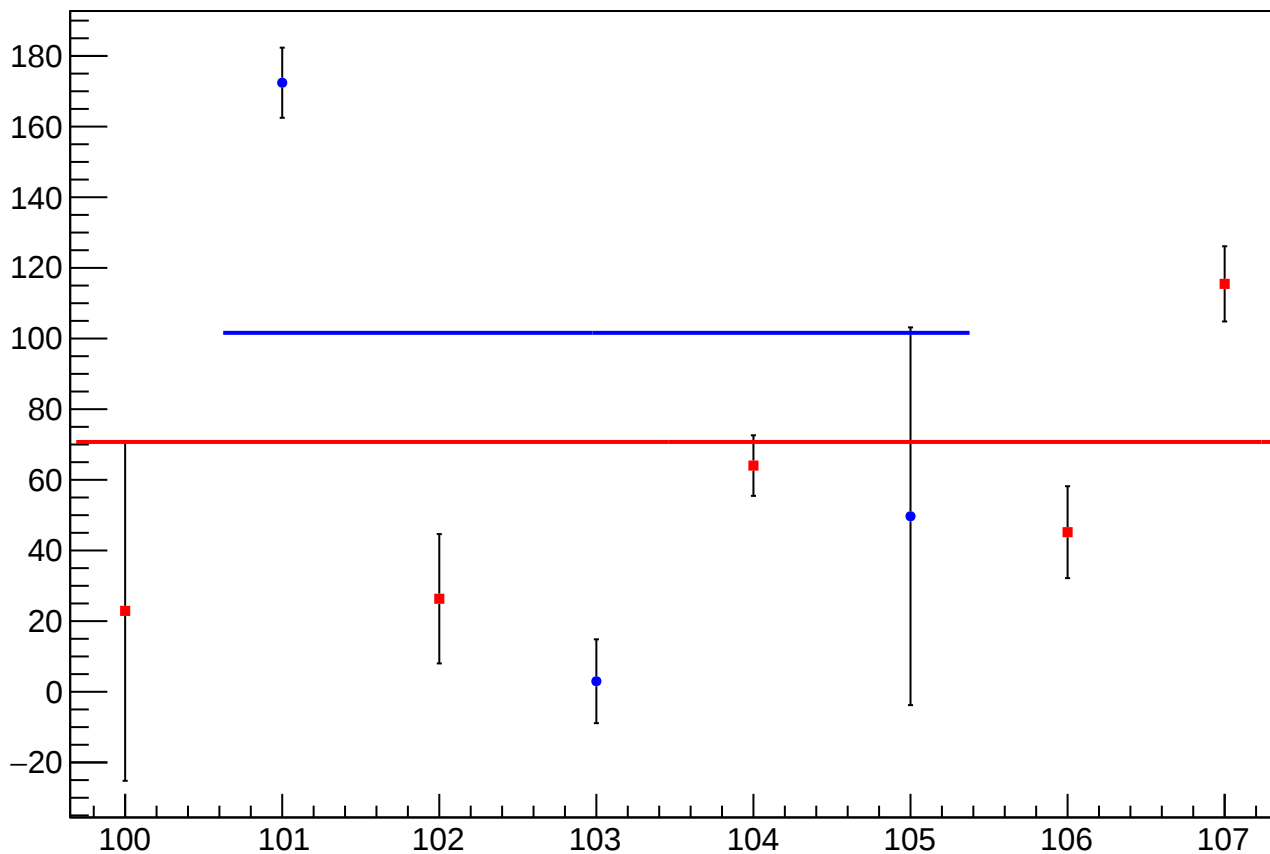
Right Out: 256.367 $\pm$ 8.029  $\chi^2$ /NDF: 36.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

248.074 $\pm$ 10.084  $\chi^2$ /NDF: 23.0/2

256.367 $\pm$ 8.029  $\chi^2$ /NDF: 36.9/4

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 101.616+/-7.538  $\chi^2/\text{NDF}$ : 120.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

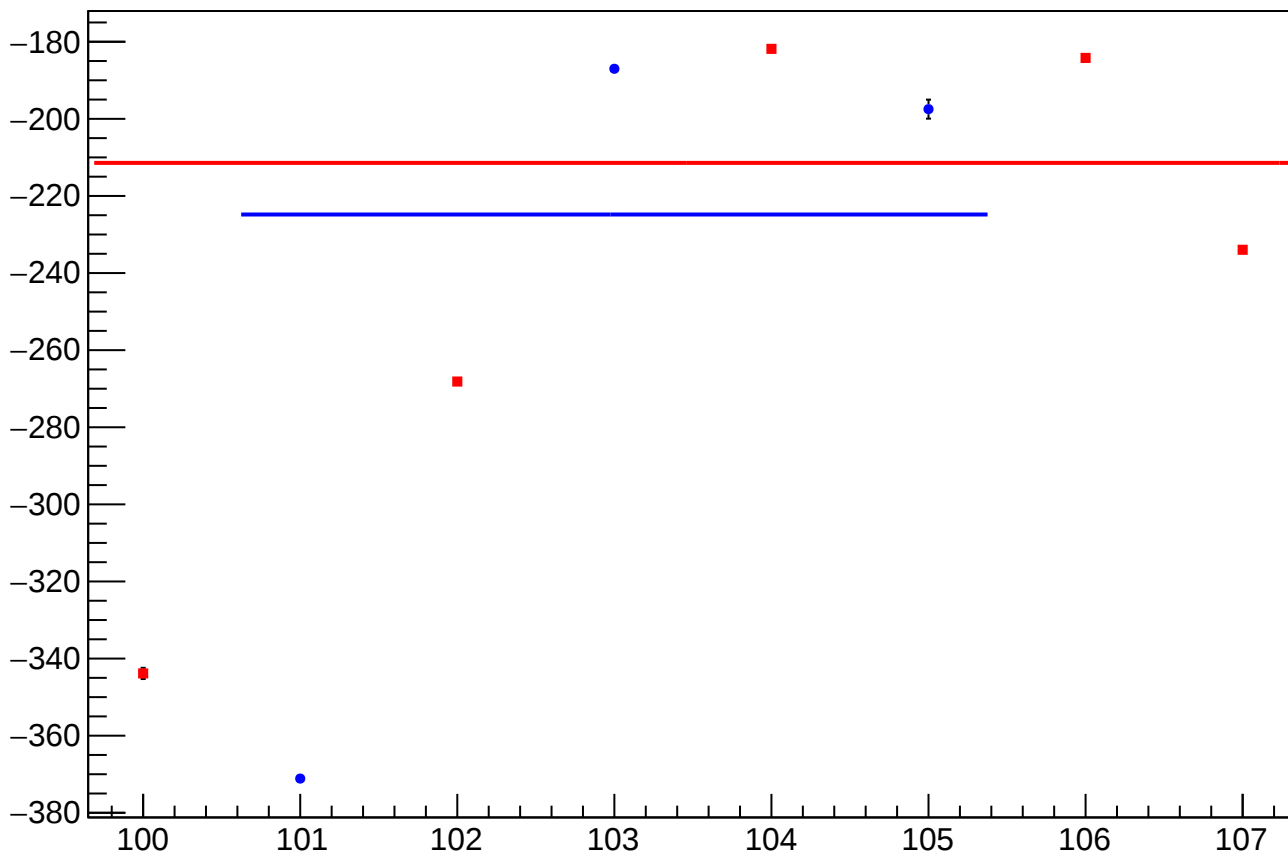
101.616+/-7.538  $\chi^2/\text{NDF}$ : 120.9/2

Right Out: 70.724+/-5.612  $\chi^2/\text{NDF}$ : 29.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

70.724+/-5.612  $\chi^2/\text{NDF}$ : 29.0/4

reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs slug



Right In: -224.812+/-0.262  $\chi^2/\text{NDF}$ : 80469.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

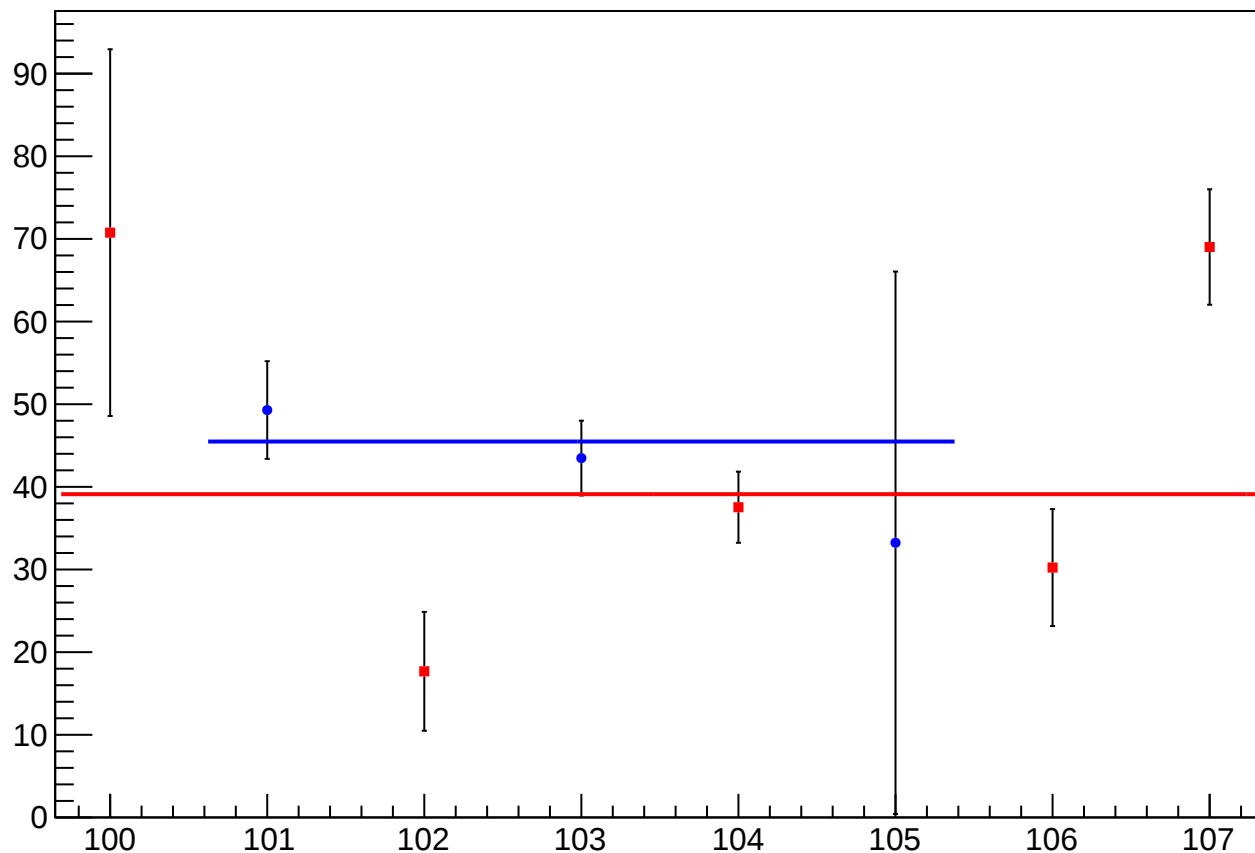
-224.812+/-0.262  $\chi^2/\text{NDF}$ : 80469.9/2

Right Out: -211.422+/-0.206  $\chi^2/\text{NDF}$ : 37330.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-211.422+/-0.206  $\chi^2/\text{NDF}$ : 37330.2/4

# reg\_asym\_at2\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 45.485 $\pm$ 3.570  $\chi^2$ /NDF: 0.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

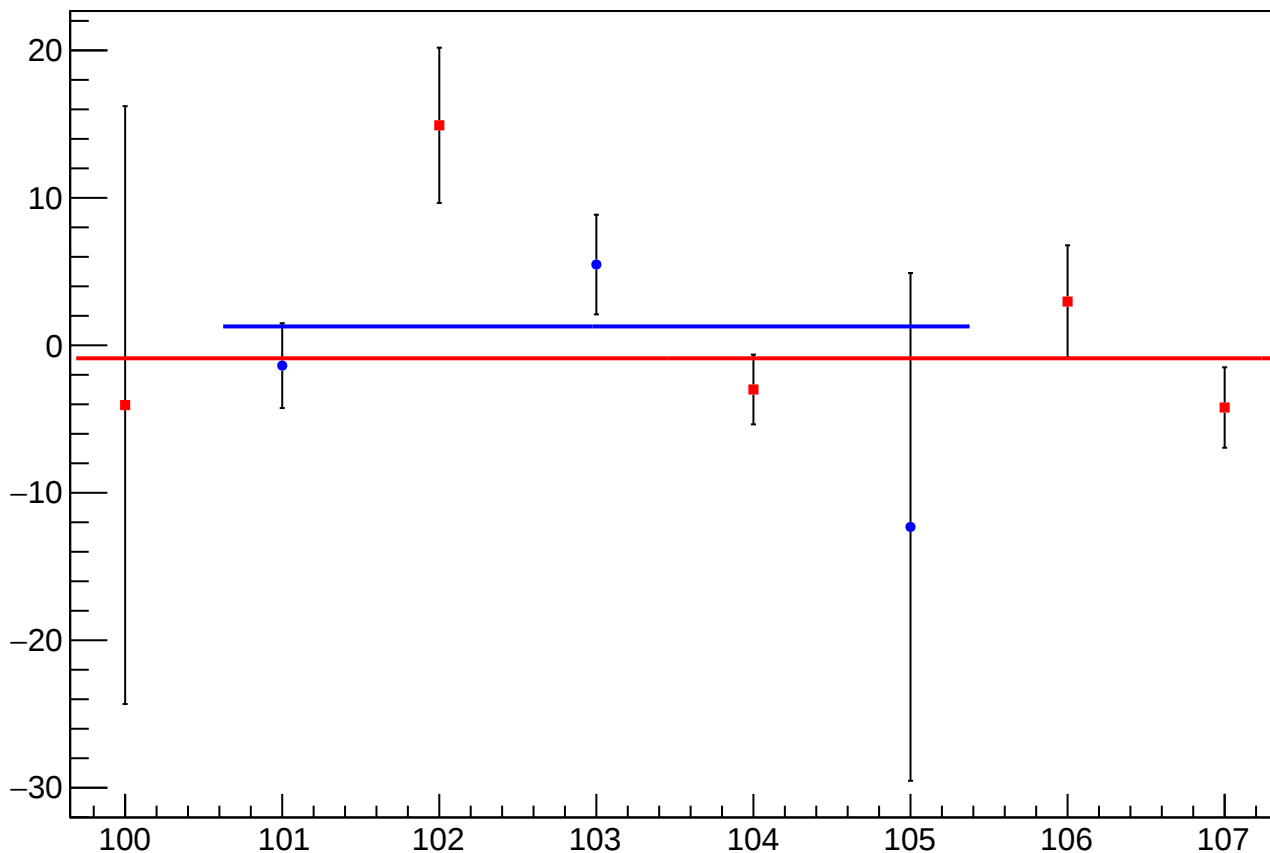
Right Out: 39.114 $\pm$ 2.938  $\chi^2$ /NDF: 31.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

45.485 $\pm$ 3.570  $\chi^2$ /NDF: 0.8/2

39.114 $\pm$ 2.938  $\chi^2$ /NDF: 31.0/4

# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 1.281+/-2.172  $\chi^2/\text{NDF}$ : 3.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

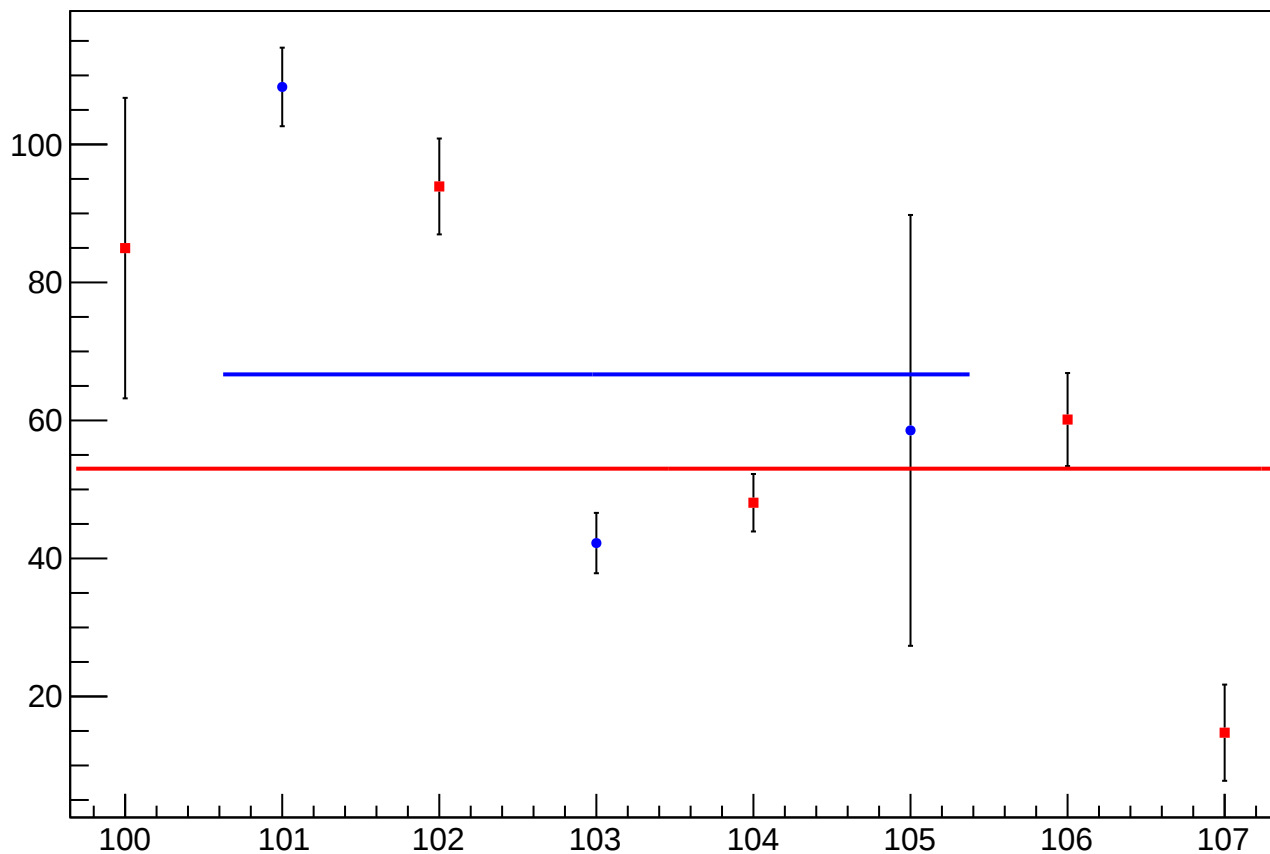
1.281+/-2.172  $\chi^2/\text{NDF}$ : 3.0/2

Right Out: -0.879+/-1.542  $\chi^2/\text{NDF}$ : 12.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.879+/-1.542  $\chi^2/\text{NDF}$ : 12.3/4

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 66.675+/-3.447  $\chi^2/\text{NDF}$ : 84.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

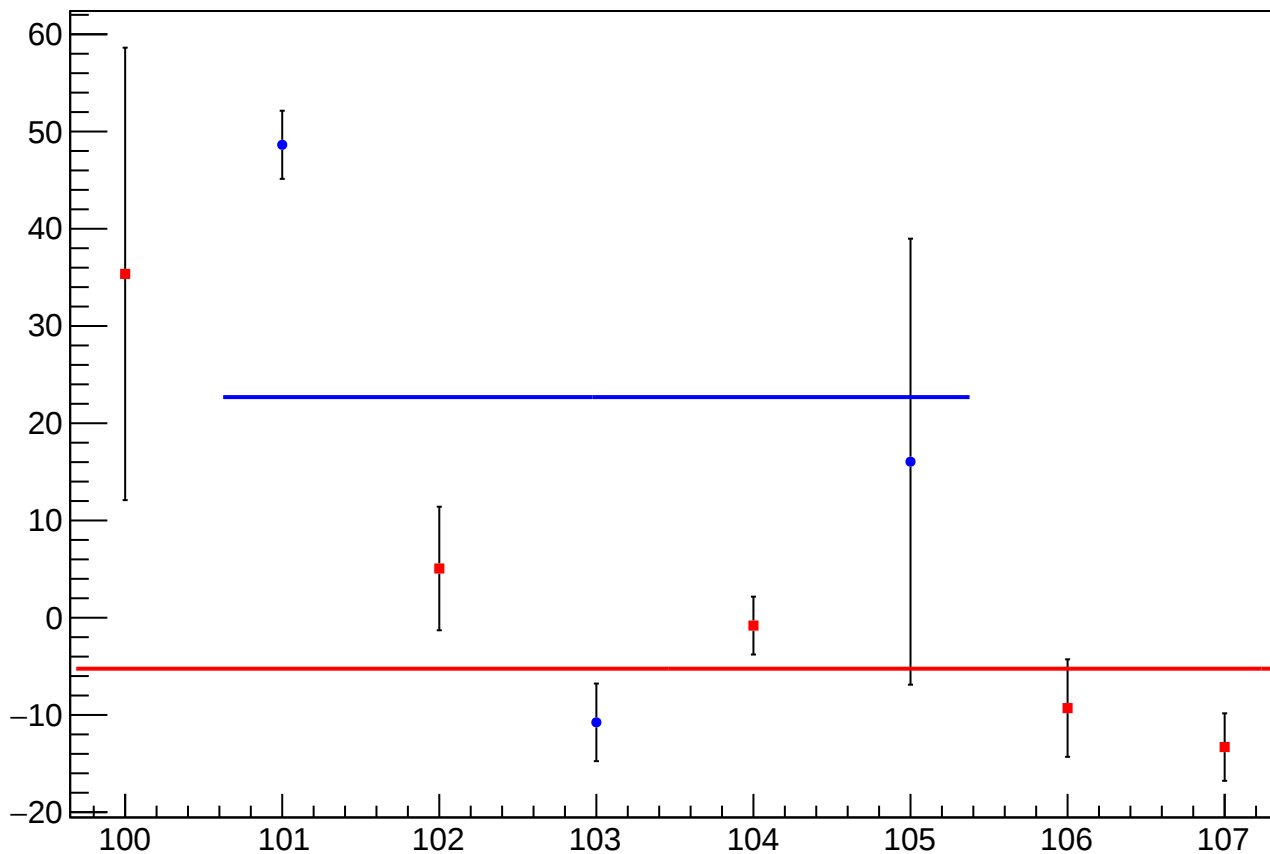
Right Out: 53.011+/-2.851  $\chi^2/\text{NDF}$ : 69.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

66.675+/-3.447  $\chi^2/\text{NDF}$ : 84.8/2

53.011+/-2.851  $\chi^2/\text{NDF}$ : 69.5/4

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 22.688+/-2.616  $\chi^2/\text{NDF}$ : 125.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

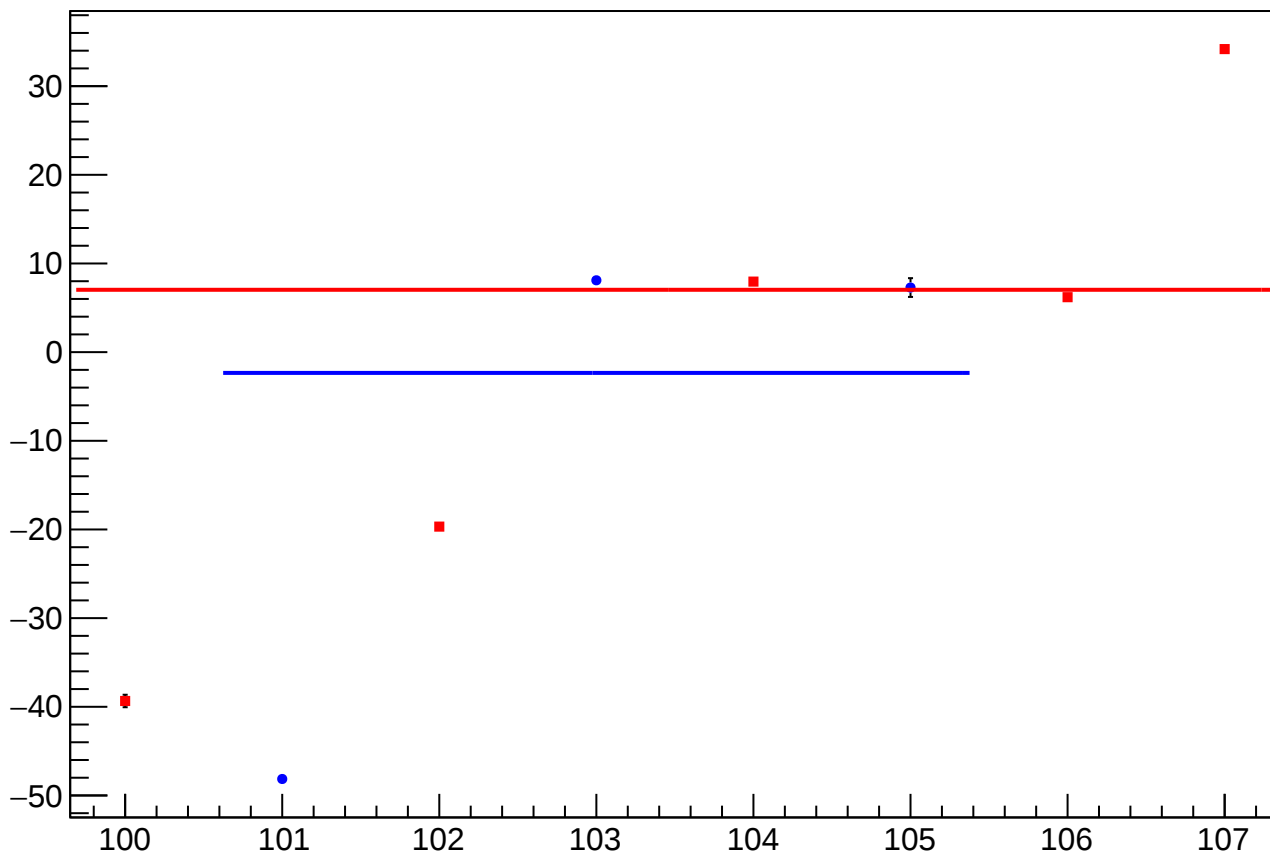
Right Out: -5.241+/-1.952  $\chi^2/\text{NDF}$ : 13.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

22.688+/-2.616  $\chi^2/\text{NDF}$ : 125.2/2

-5.241+/-1.952  $\chi^2/\text{NDF}$ : 13.9/4

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs slug



Right In: -2.342 $\pm$ 0.088  $\chi^2$ /NDF: 61461.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

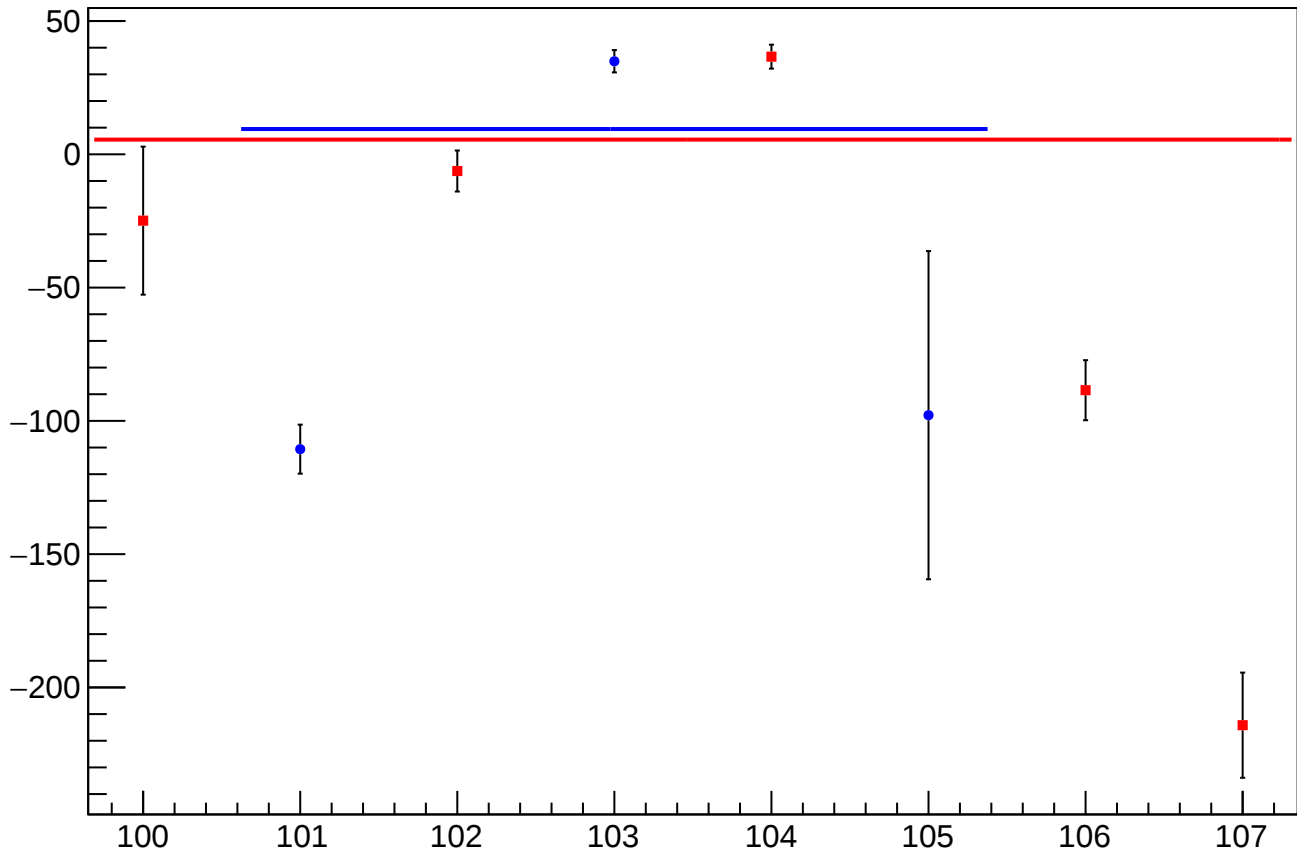
Right Out: 7.032 $\pm$ 0.072  $\chi^2$ /NDF: 60703.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-2.342 $\pm$ 0.088  $\chi^2$ /NDF: 61461.6/2

7.032 $\pm$ 0.072  $\chi^2$ /NDF: 60703.4/4

reg\_asym\_atl1r2\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 9.490+/-3.804  $\chi^2/\text{NDF}$ : 210.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

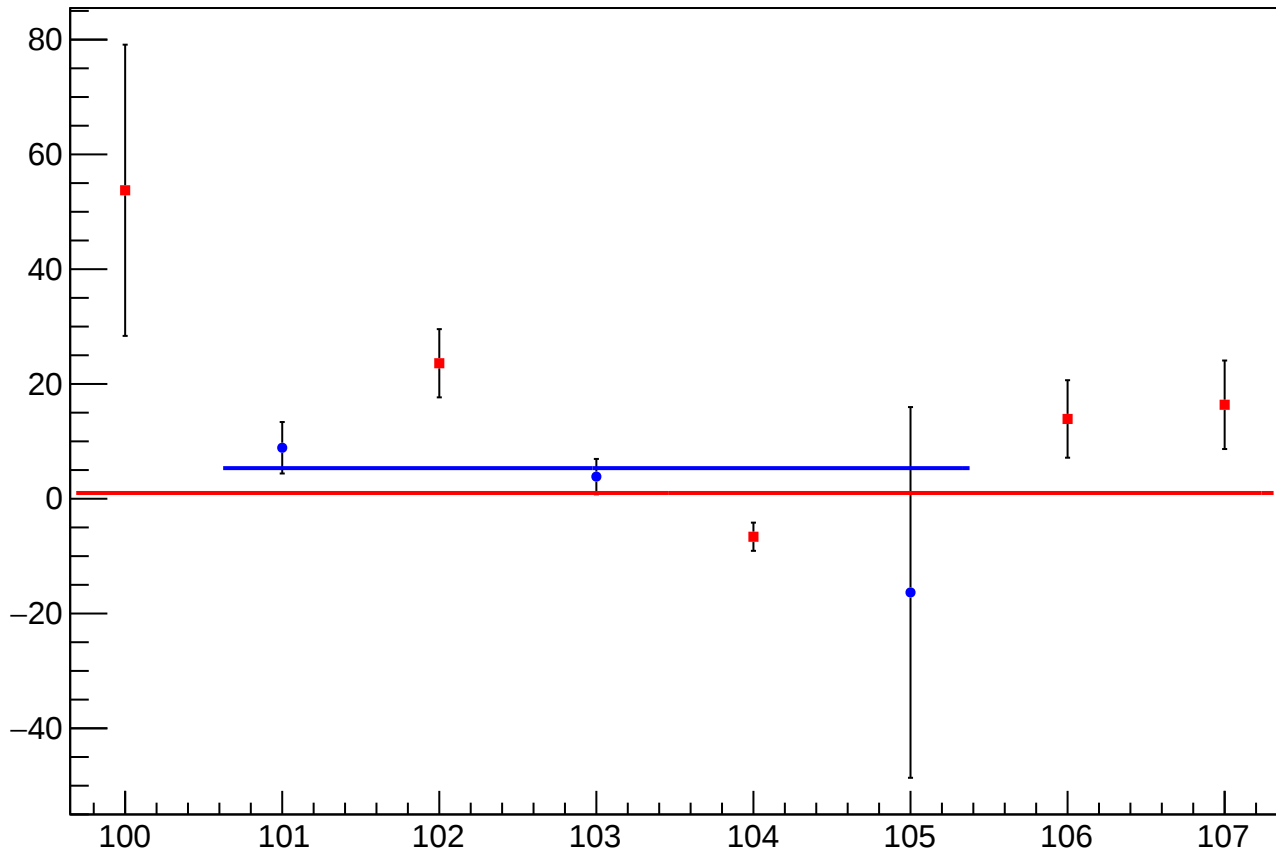
Right Out: 5.520+/-3.575  $\chi^2/\text{NDF}$ : 245.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.490+/-3.804  $\chi^2/\text{NDF}$ : 210.5/2

5.520+/-3.575  $\chi^2/\text{NDF}$ : 245.3/4

reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 5.334 $\pm$ 2.531  $\chi^2$ /NDF: 1.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

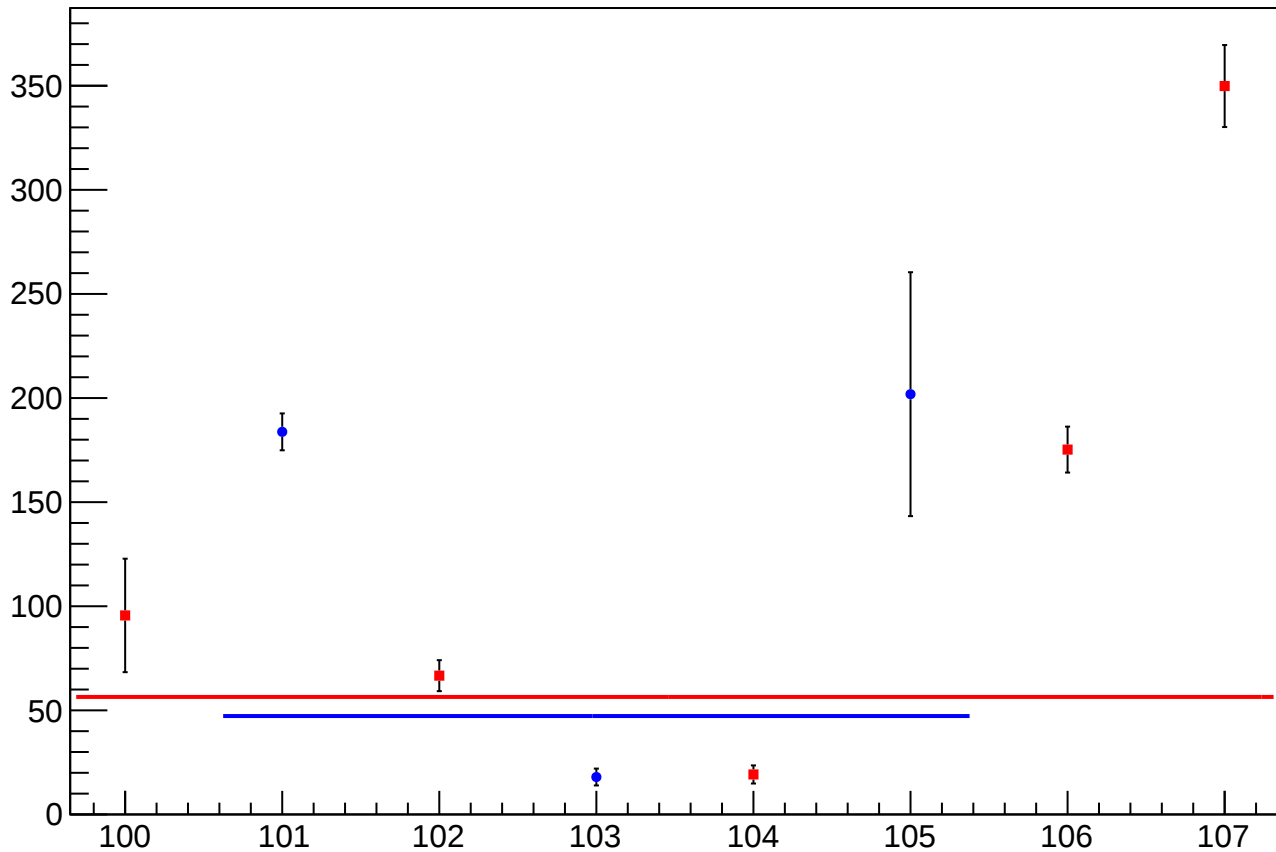
Right Out: 1.006 $\pm$ 2.066  $\chi^2$ /NDF: 36.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

5.334 $\pm$ 2.531  $\chi^2$ /NDF: 1.3/2

1.006 $\pm$ 2.066  $\chi^2$ /NDF: 36.0/4

reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 47.268+/-3.677  $\chi^2/\text{NDF}$ : 296.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

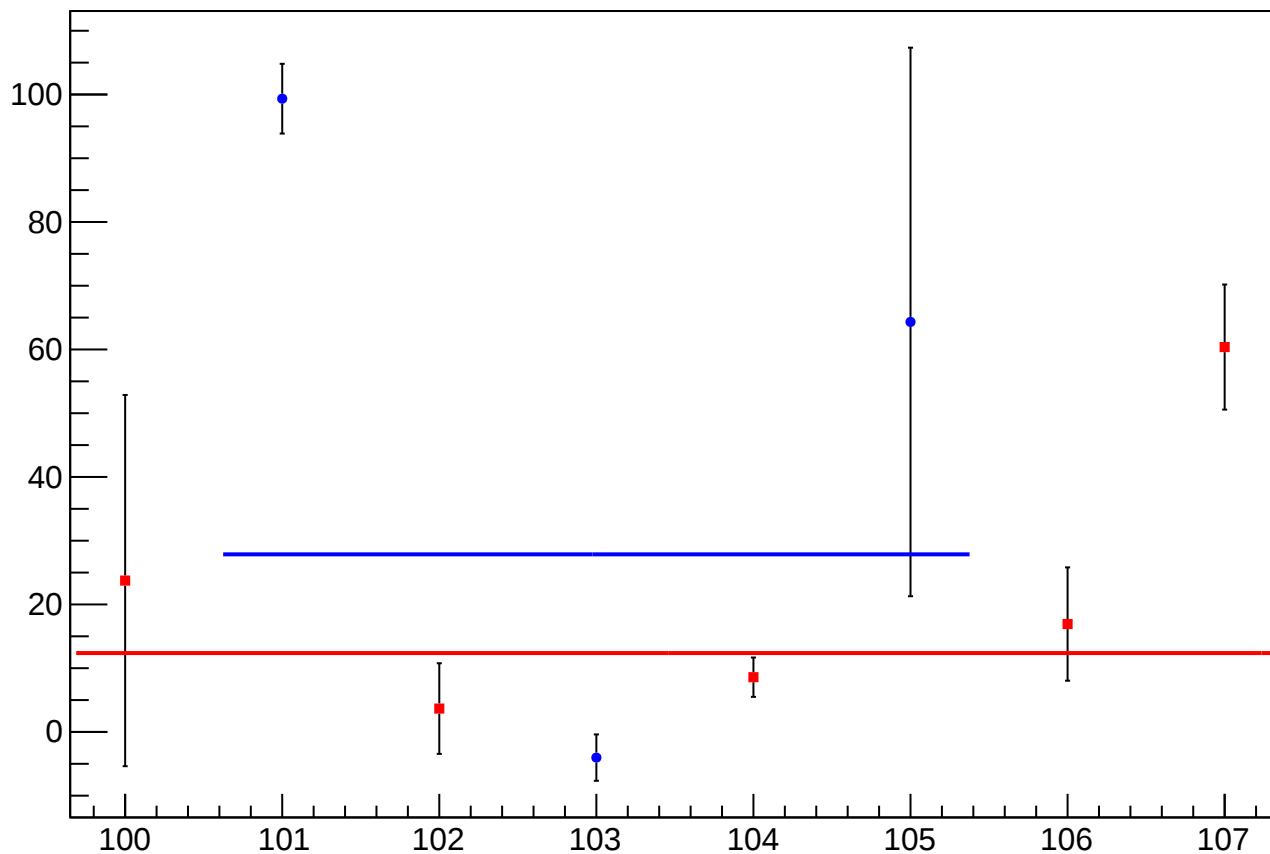
Right Out: 56.445+/-3.469  $\chi^2/\text{NDF}$ : 415.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

47.268+/-3.677  $\chi^2/\text{NDF}$ : 296.7/2

56.445+/-3.469  $\chi^2/\text{NDF}$ : 415.2/4

reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 27.860 $\pm$ 3.022  $\chi^2$ /NDF: 248.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

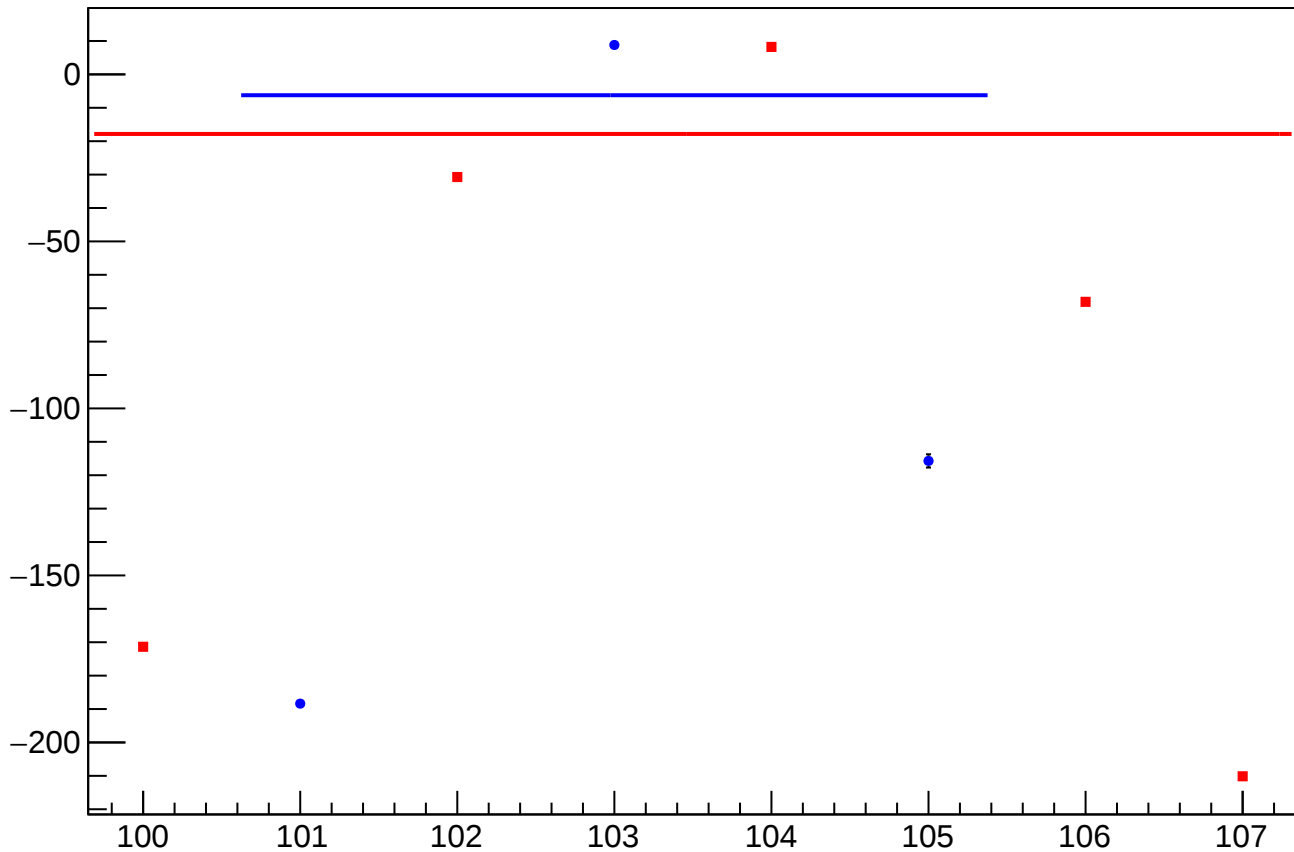
Right Out: 12.371 $\pm$ 2.590  $\chi^2$ /NDF: 27.4/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

27.860 $\pm$ 3.022  $\chi^2$ /NDF: 248.4/2

12.371 $\pm$ 2.590  $\chi^2$ /NDF: 27.4/4

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs slug



Right In: -6.238+/-0.087  $\chi^2/\text{NDF}$ : 357657.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

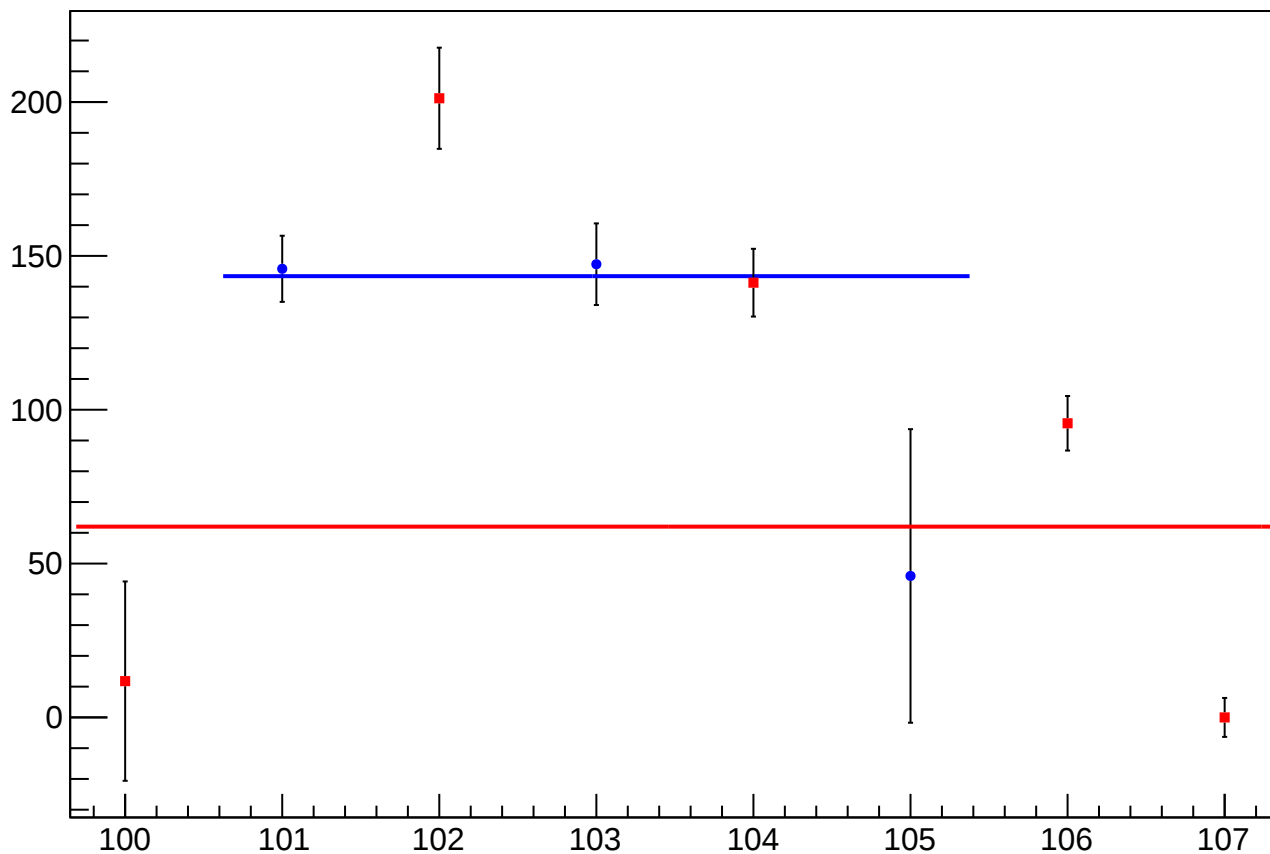
-6.238+/-0.087  $\chi^2/\text{NDF}$ : 357657.5/2

Right Out: -17.831+/-0.086  $\chi^2/\text{NDF}$ : 302675.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-17.831+/-0.086  $\chi^2/\text{NDF}$ : 302675.5/4

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 143.412 $\pm$ 8.225  $\chi^2$ /NDF: 4.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

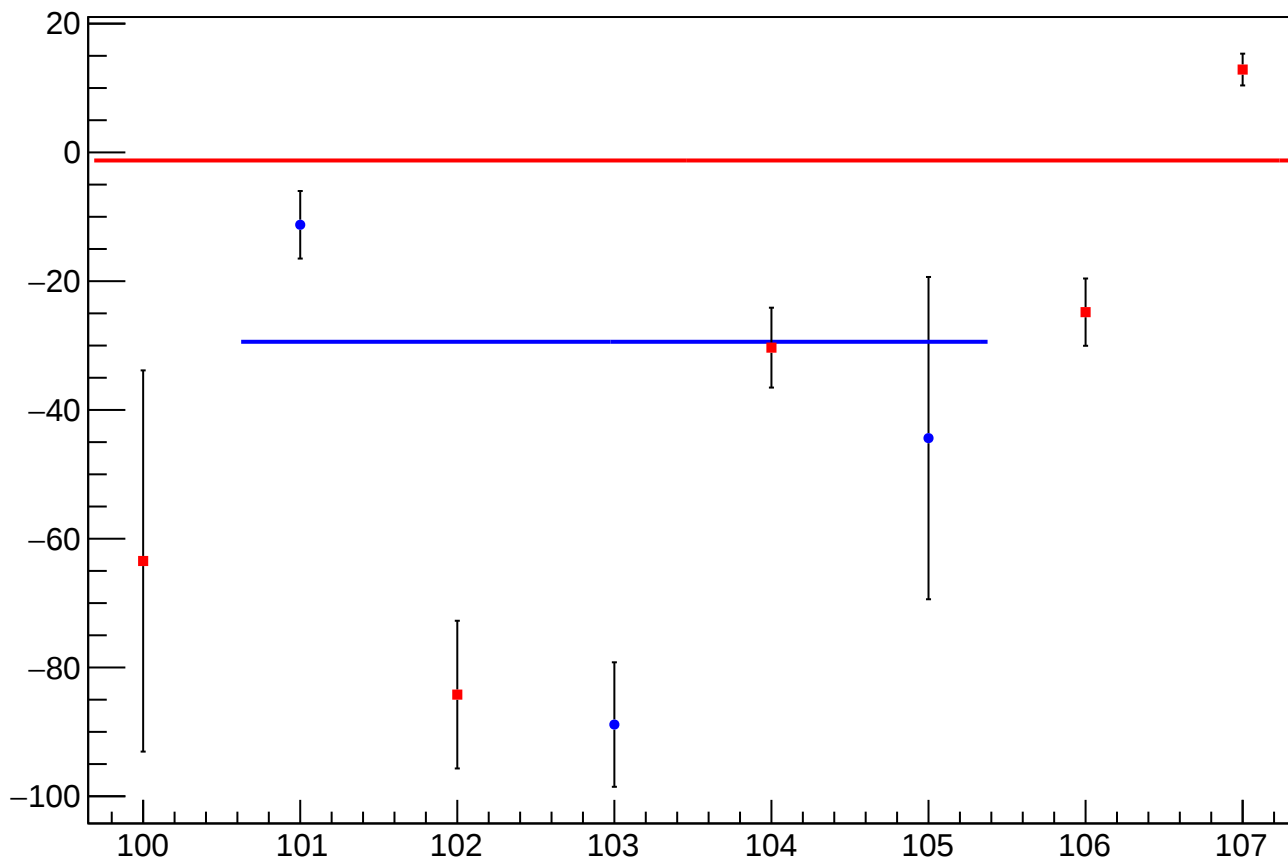
Right Out: 62.006 $\pm$ 4.446  $\chi^2$ /NDF: 236.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

143.412 $\pm$ 8.225  $\chi^2$ /NDF: 4.3/2

62.006 $\pm$ 4.446  $\chi^2$ /NDF: 236.3/4

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs slug



Right In:  $-29.413 \pm 4.535$   $\chi^2/\text{NDF}: 50.2/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

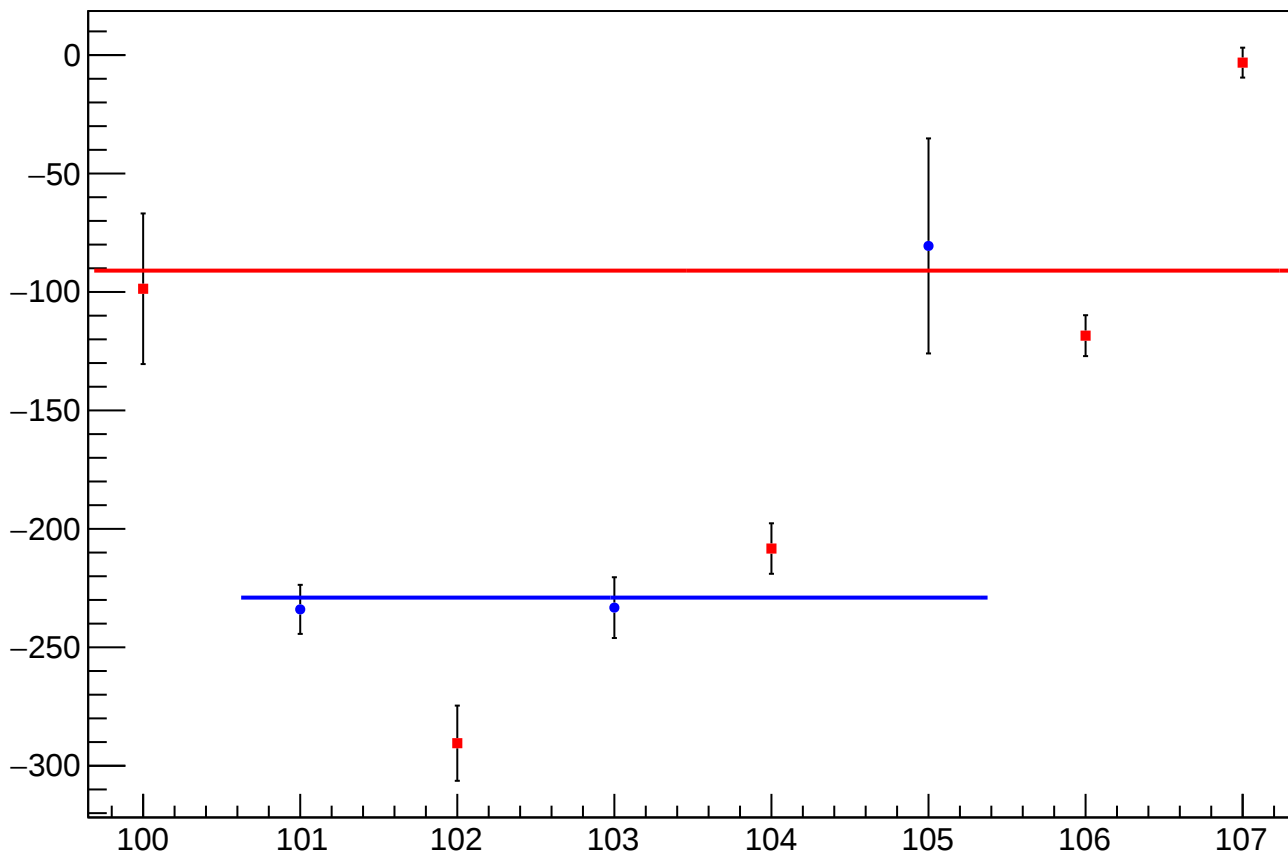
Right Out:  $-1.253 \pm 2.060$   $\chi^2/\text{NDF}: 131.8/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-29.413 \pm 4.535$   $\chi^2/\text{NDF}: 50.2/2$

$-1.253 \pm 2.060$   $\chi^2/\text{NDF}: 131.8/4$

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -229.014 $\pm$ 7.933  $\chi^2$ /NDF: 11.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

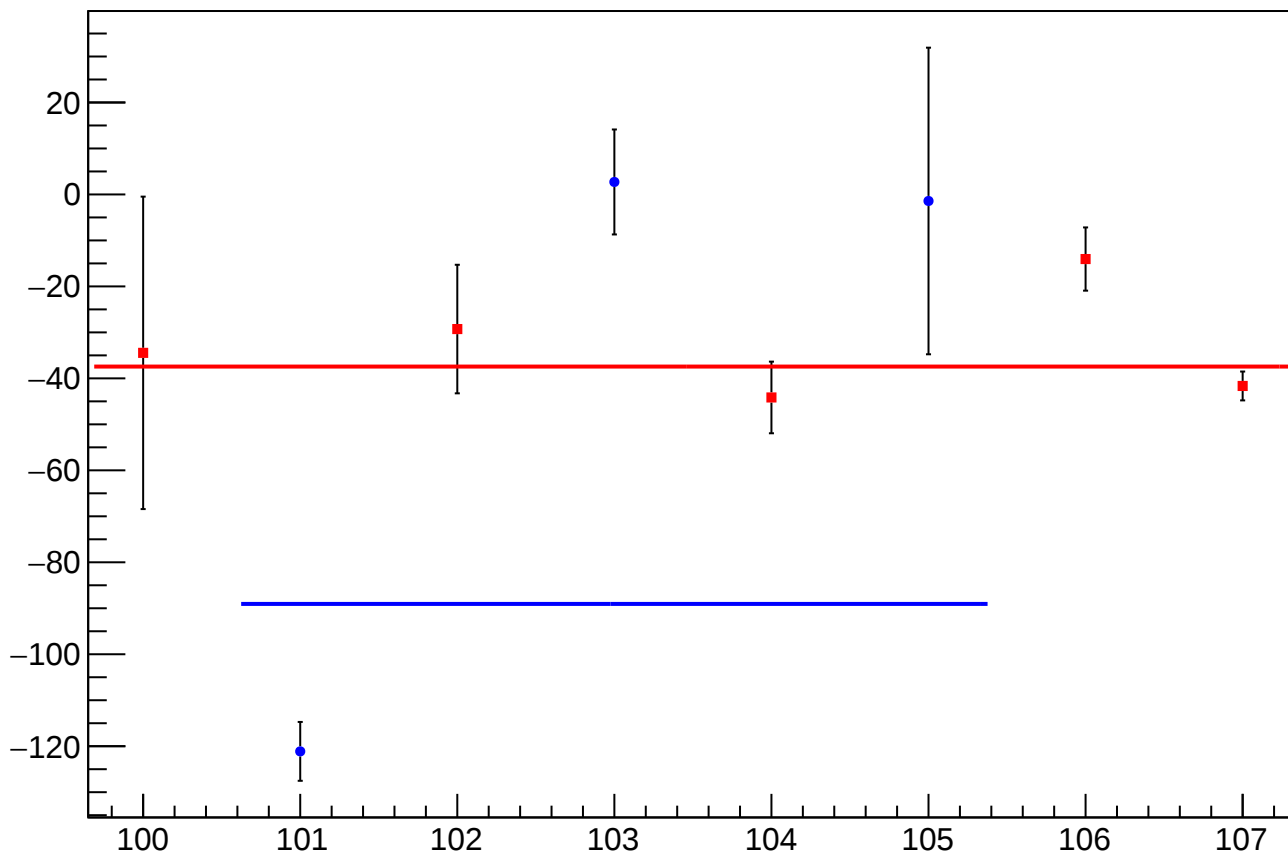
Right Out: -90.984 $\pm$ 4.375  $\chi^2$ /NDF: 482.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-229.014 $\pm$ 7.933  $\chi^2$ /NDF: 11.0/2

-90.984 $\pm$ 4.375  $\chi^2$ /NDF: 482.5/4

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -89.054+/-5.506  $\chi^2/\text{NDF}$ : 96.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

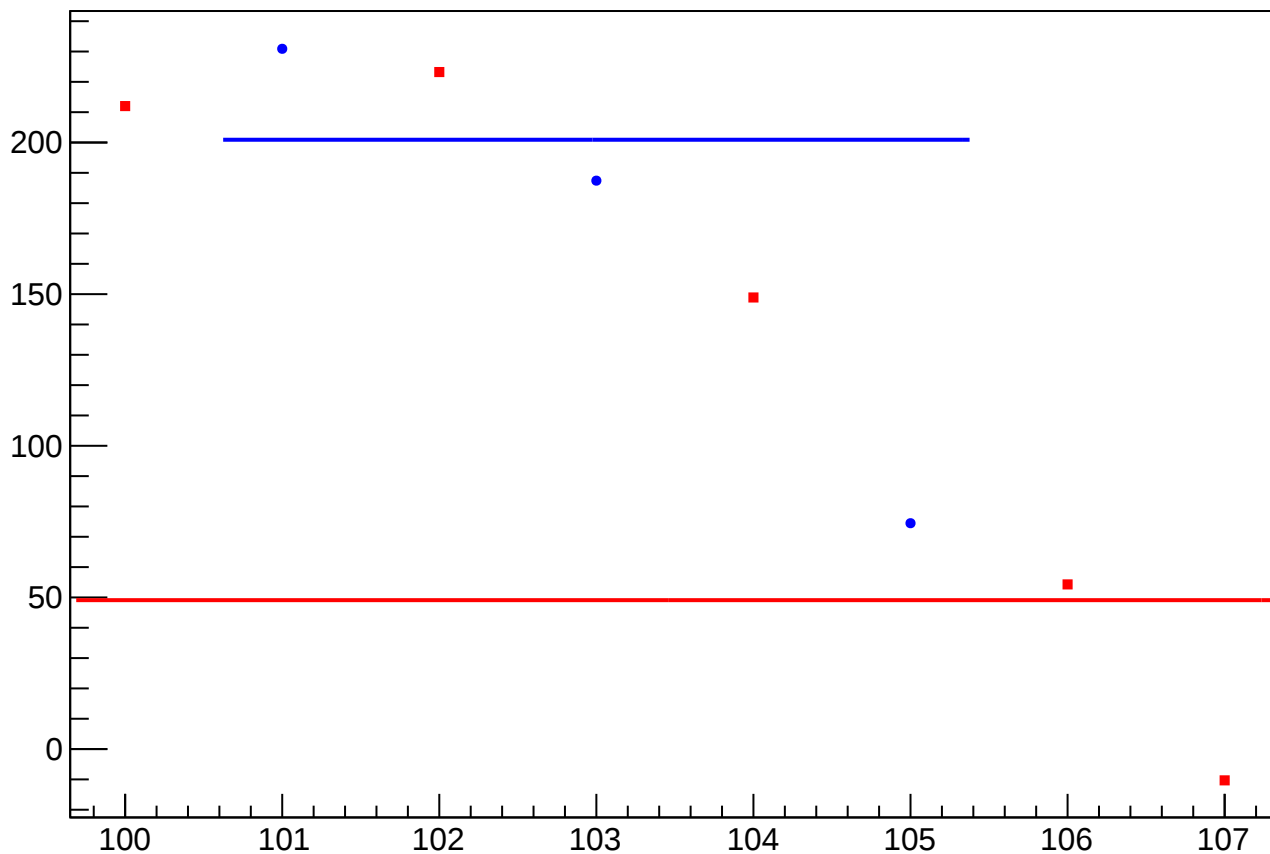
Right Out: -37.434+/-2.625  $\chi^2/\text{NDF}$ : 14.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-89.054+/-5.506  $\chi^2/\text{NDF}$ : 96.6/2

-37.434+/-2.625  $\chi^2/\text{NDF}$ : 14.5/4

# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs slug



Right In: 200.912 $\pm$ 0.225  $\chi^2$ /NDF: 15433.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

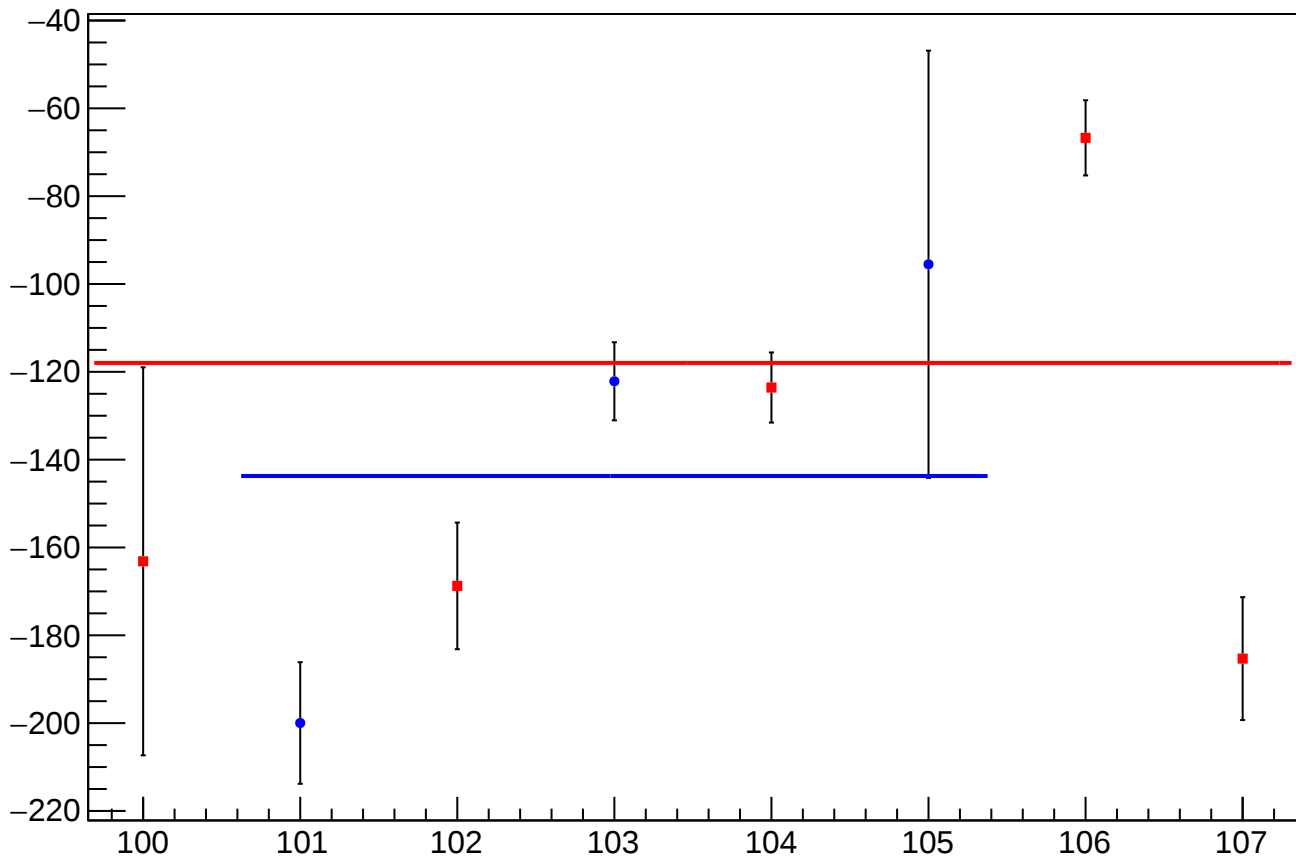
200.912 $\pm$ 0.225  $\chi^2$ /NDF: 15433.3/2

Right Out: 49.101 $\pm$ 0.107  $\chi^2$ /NDF: 543944.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

49.101 $\pm$ 0.107  $\chi^2$ /NDF: 543944.9/4

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -143.728+/-7.394  $\chi^2$ /NDF: 23.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

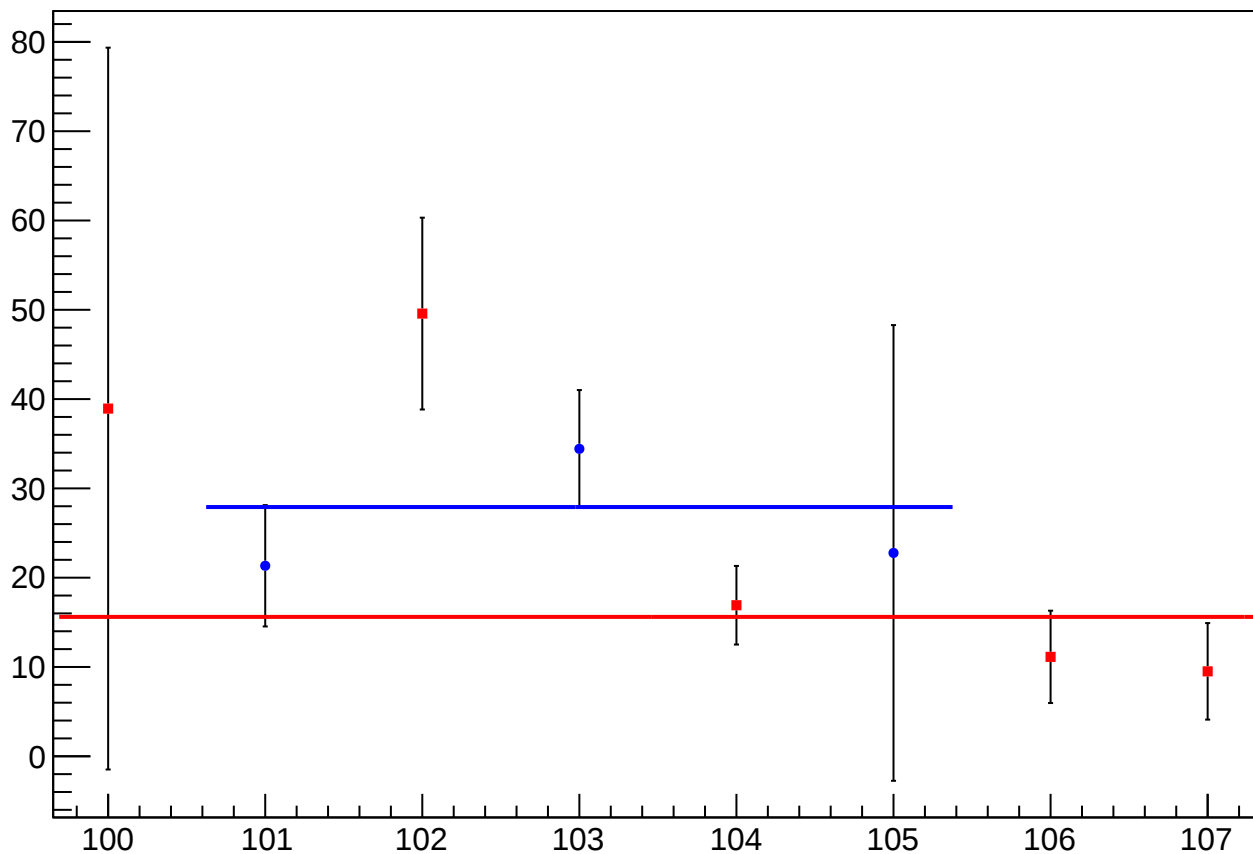
-143.728+/-7.394  $\chi^2$ /NDF: 23.4/2

Right Out: -117.972+/-5.016  $\chi^2$ /NDF: 72.9/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-117.972+/-5.016  $\chi^2$ /NDF: 72.9/4

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 27.911+/-4.649  $\chi^2/\text{NDF}$ : 2.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

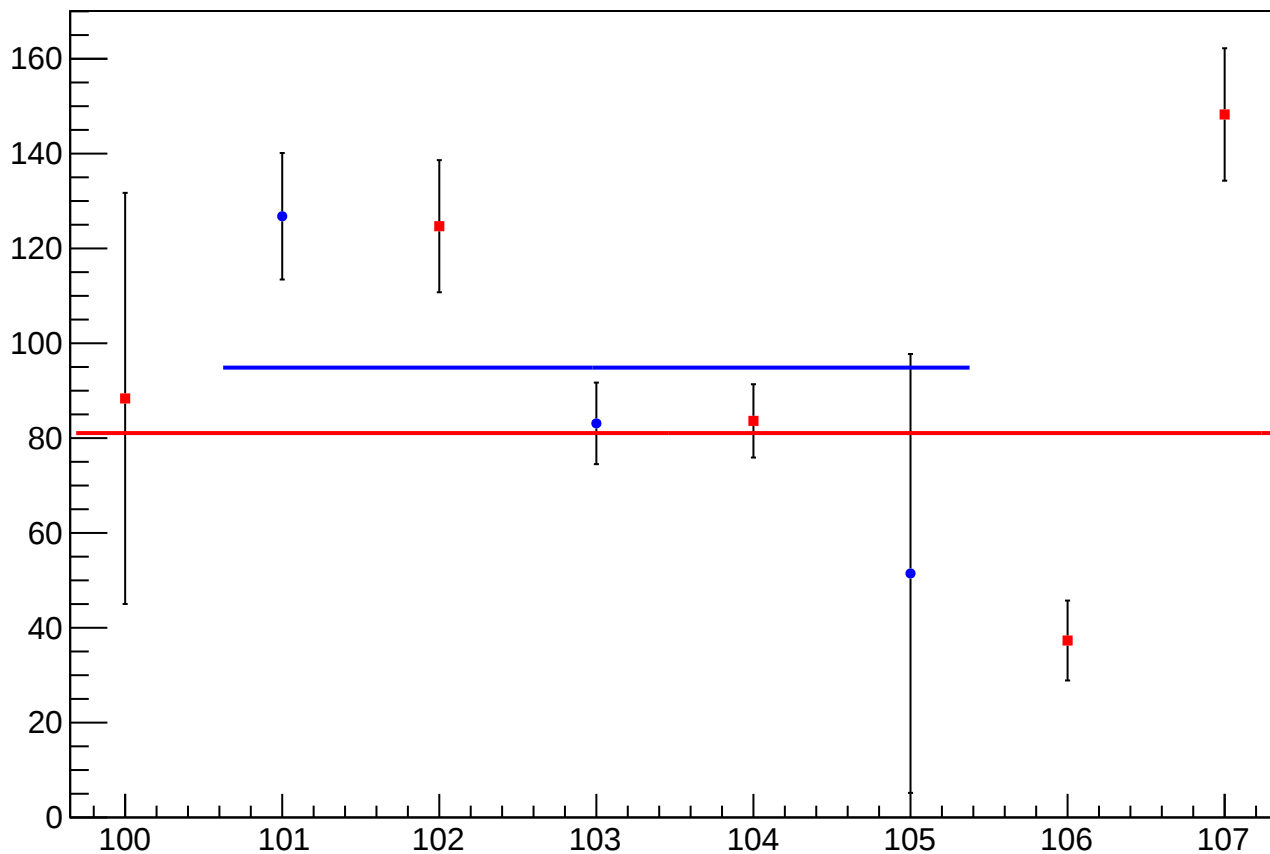
27.911+/-4.649  $\chi^2/\text{NDF}$ : 2.0/2

Right Out: 15.609+/-2.747  $\chi^2/\text{NDF}$ : 12.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

15.609+/-2.747  $\chi^2/\text{NDF}$ : 12.4/4

reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 94.867+/-7.141  $\chi^2$ /NDF: 8.5/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

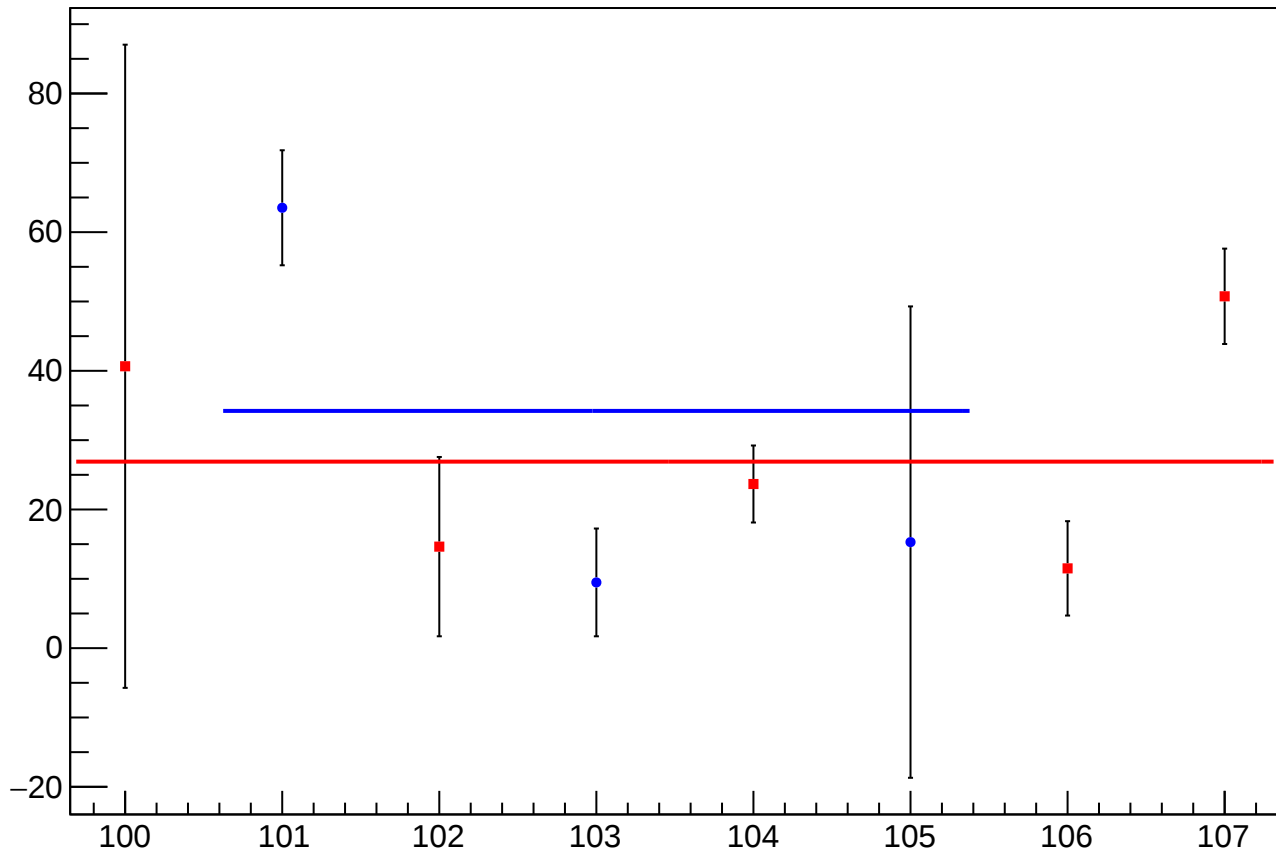
Right Out: 81.061+/-4.902  $\chi^2$ /NDF: 60.1/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

94.867+/-7.141  $\chi^2$ /NDF: 8.5/2

81.061+/-4.902  $\chi^2$ /NDF: 60.1/4

reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 34.219+/-5.594  $\chi^2/\text{NDF}$ : 22.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

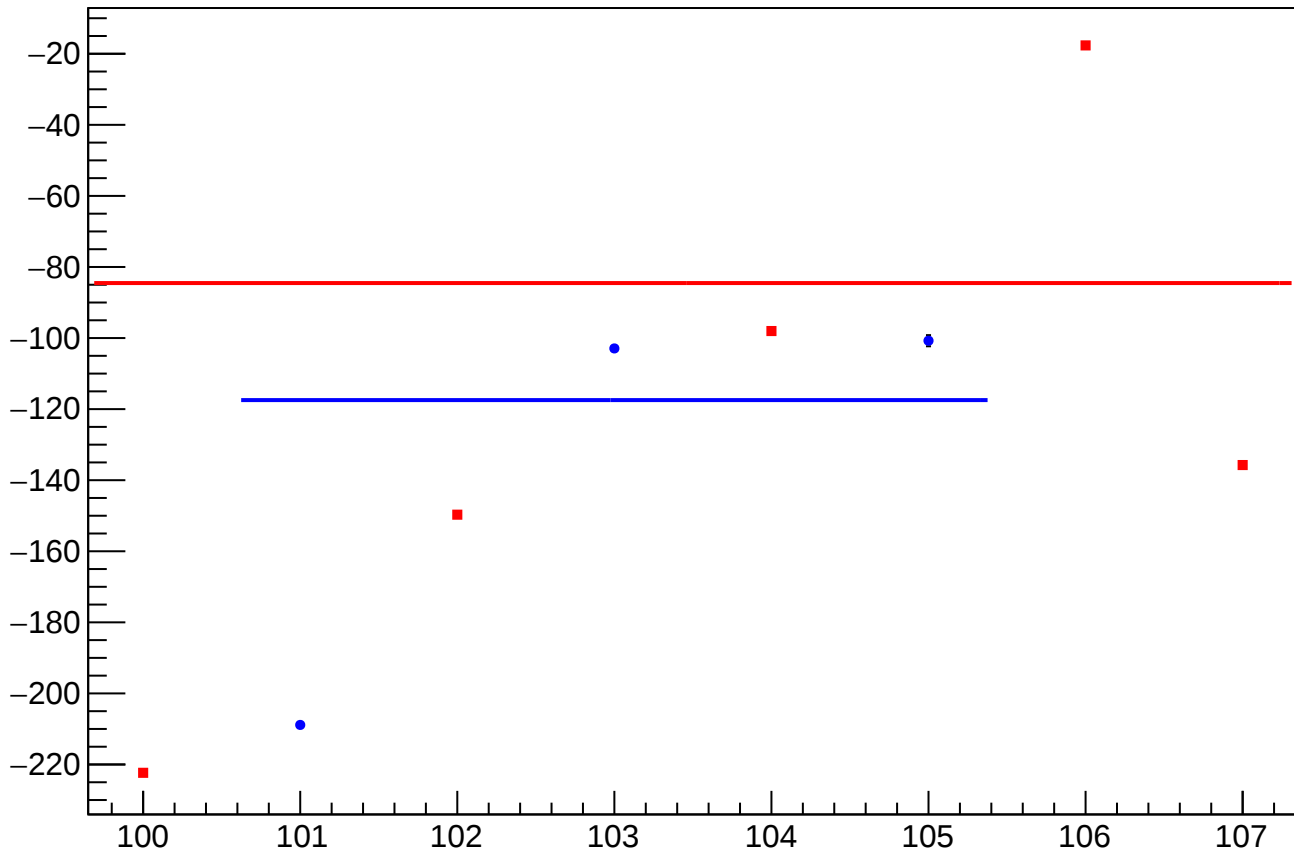
Right Out: 26.903+/-3.501  $\chi^2/\text{NDF}$ : 18.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

34.219+/-5.594  $\chi^2/\text{NDF}$ : 22.9/2

26.903+/-3.501  $\chi^2/\text{NDF}$ : 18.5/4

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs slug



Right In: -117.459+/-0.178  $\chi^2/\text{NDF}$ : 42067.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

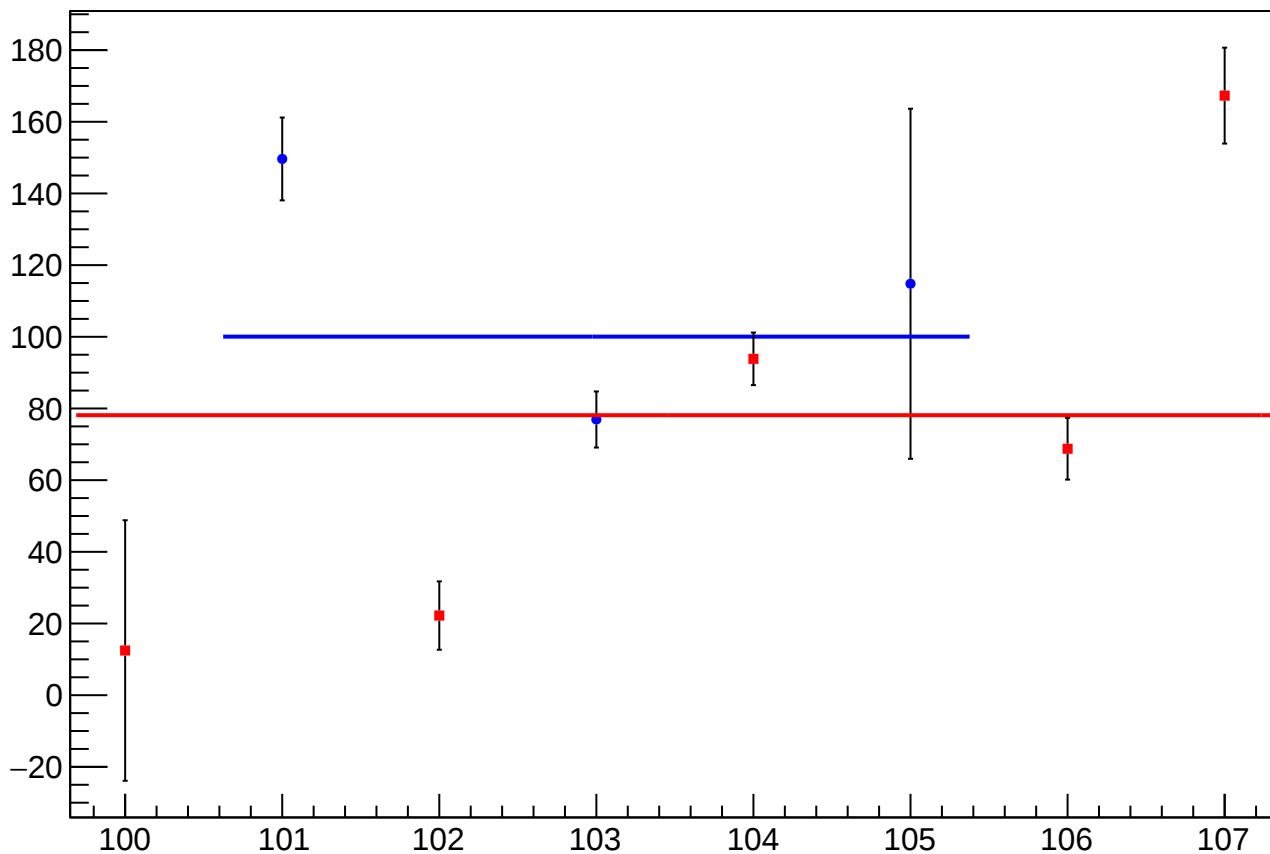
Right Out: -84.524+/-0.121  $\chi^2/\text{NDF}$ : 183932.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-117.459+/-0.178  $\chi^2/\text{NDF}$ : 42067.9/2

-84.524+/-0.121  $\chi^2/\text{NDF}$ : 183932.0/4

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 100.049 $\pm$ 6.425  $\chi^2$ /NDF: 27.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

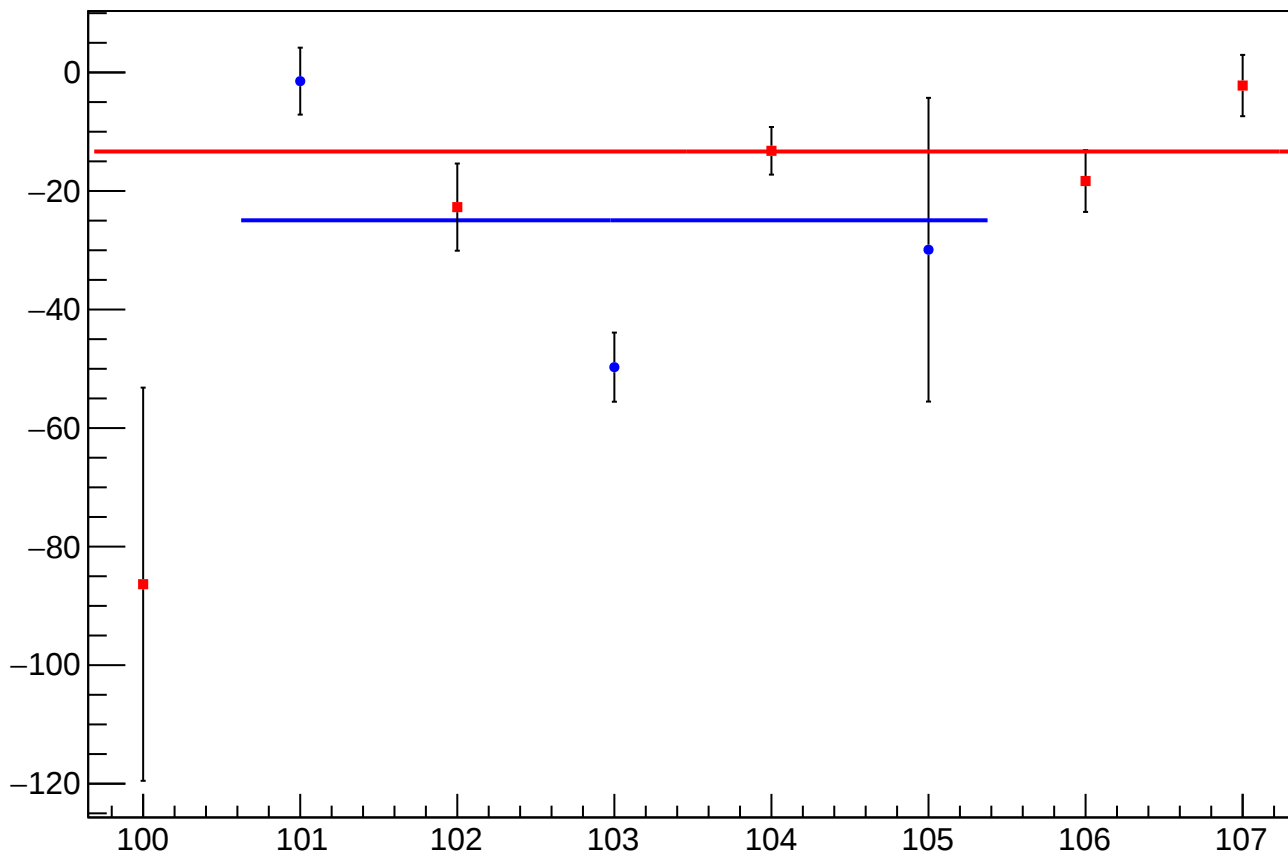
Right Out: 78.126 $\pm$ 4.499  $\chi^2$ /NDF: 87.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

100.049 $\pm$ 6.425  $\chi^2$ /NDF: 27.2/2

78.126 $\pm$ 4.499  $\chi^2$ /NDF: 87.8/4

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -24.947±/-4.007  $\chi^2/\text{NDF}$ : 35.4/2

Left Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

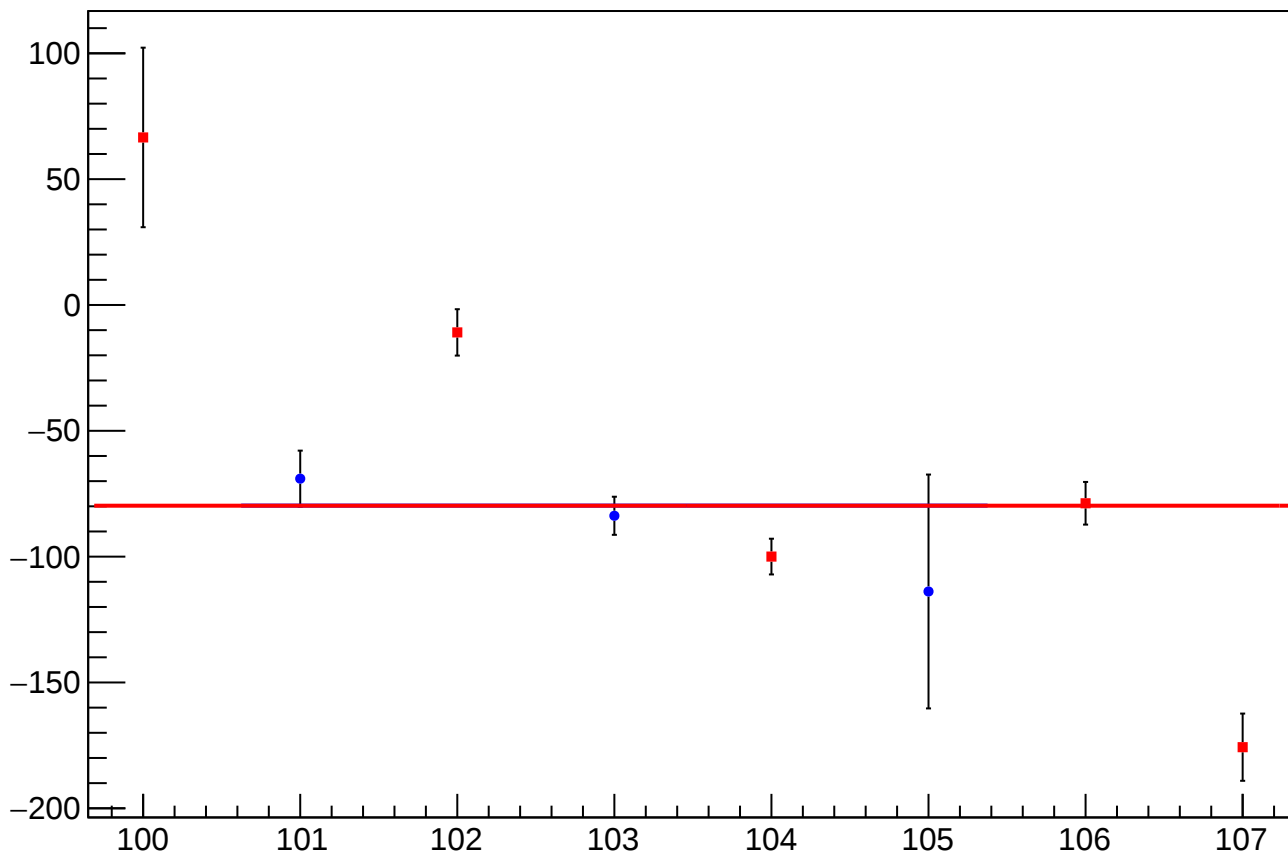
Right Out: -13.338±/-2.535  $\chi^2/\text{NDF}$ : 12.0/4

Left In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-24.947±/-4.007  $\chi^2/\text{NDF}$ : 35.4/2

-13.338±/-2.535  $\chi^2/\text{NDF}$ : 12.0/4

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -79.719 +/- 6.205  $\chi^2/\text{NDF}$ : 1.7/2

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

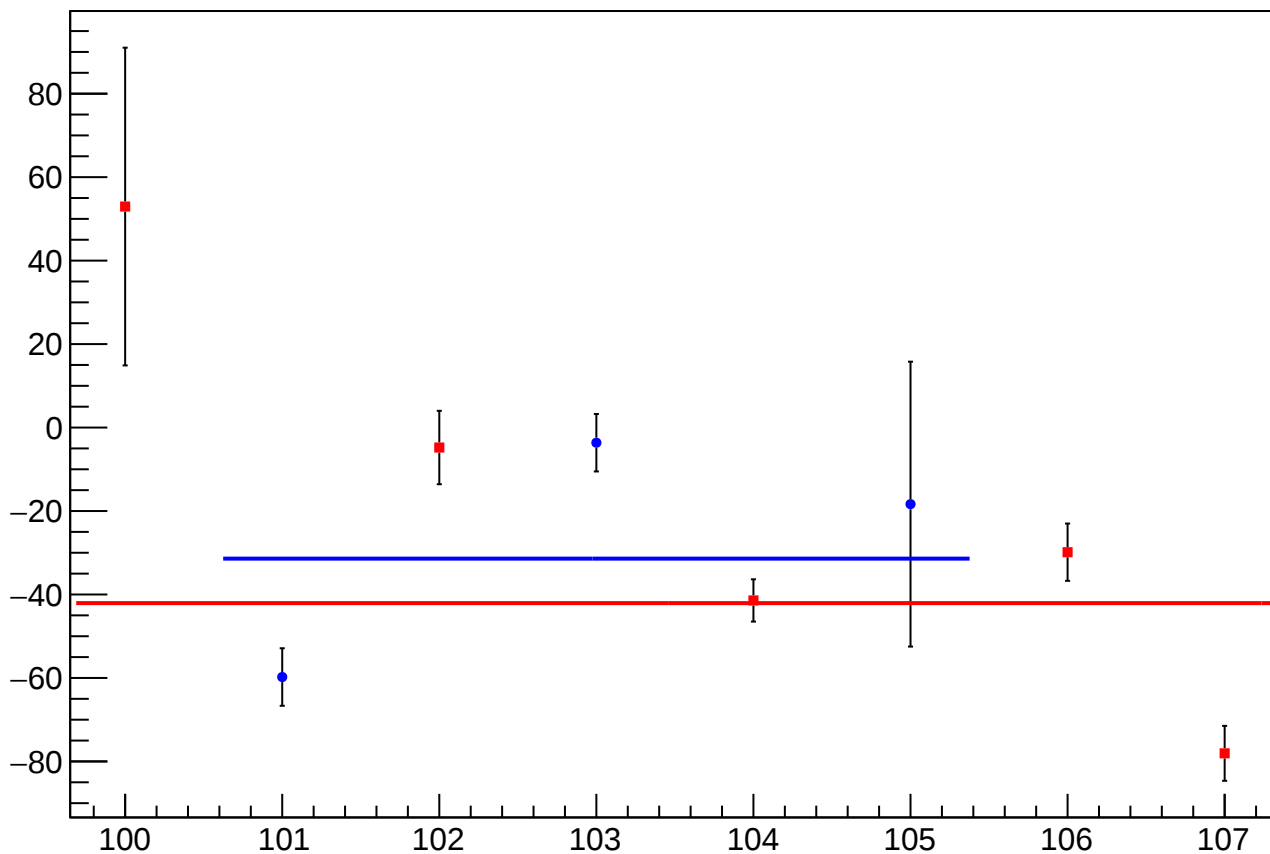
Right Out: -79.758 +/- 4.389  $\chi^2/\text{NDF}$ : 132.4/4

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

-79.719 +/- 6.205  $\chi^2/\text{NDF}$ : 1.7/2

-79.758 +/- 4.389  $\chi^2/\text{NDF}$ : 132.4/4

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -31.406 $\pm$ 4.822  $\chi^2$ /NDF: 33.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

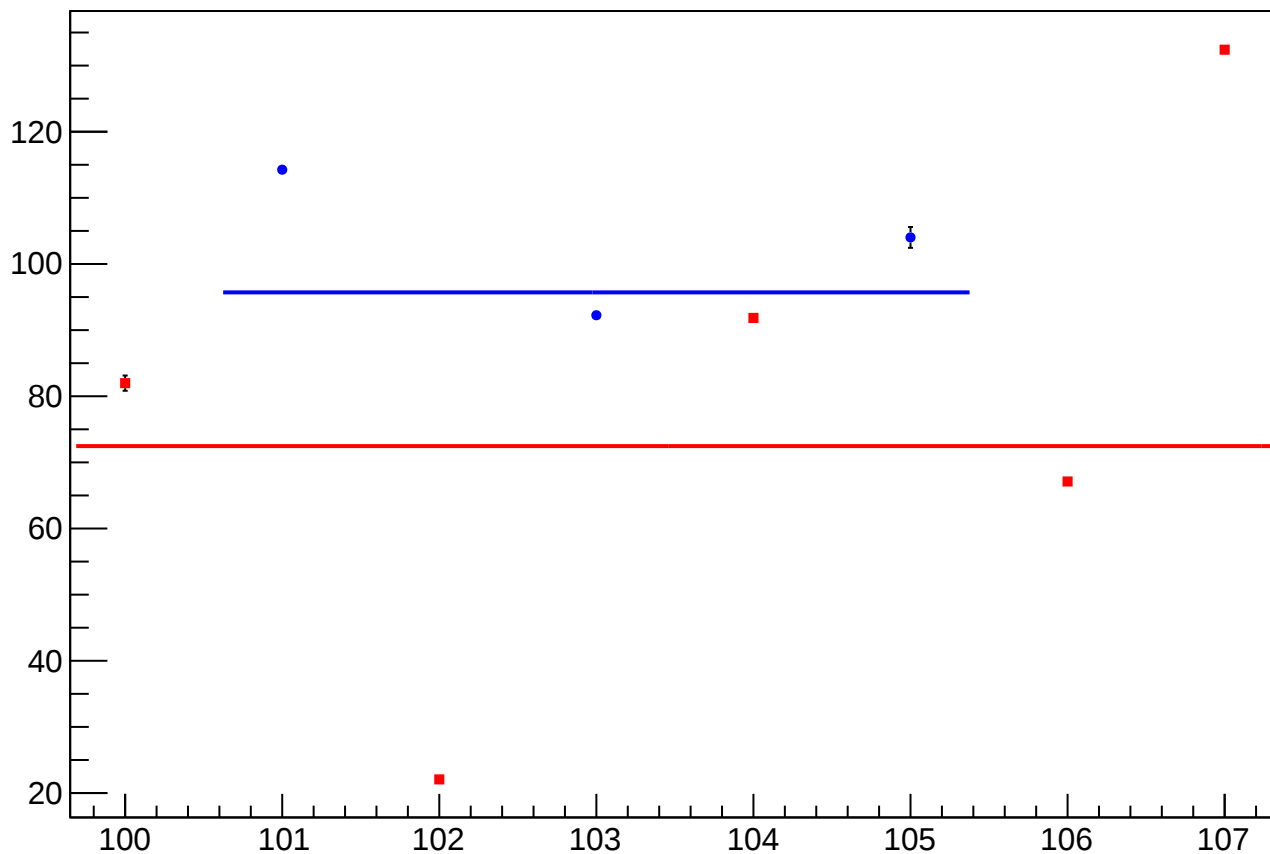
Right Out: -42.061 $\pm$ 3.212  $\chi^2$ /NDF: 57.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-31.406 $\pm$ 4.822  $\chi^2$ /NDF: 33.4/2

-42.061 $\pm$ 3.212  $\chi^2$ /NDF: 57.3/4

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs slug



Right In: 95.706+/-0.156  $\chi^2/\text{NDF}$ : 2599.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

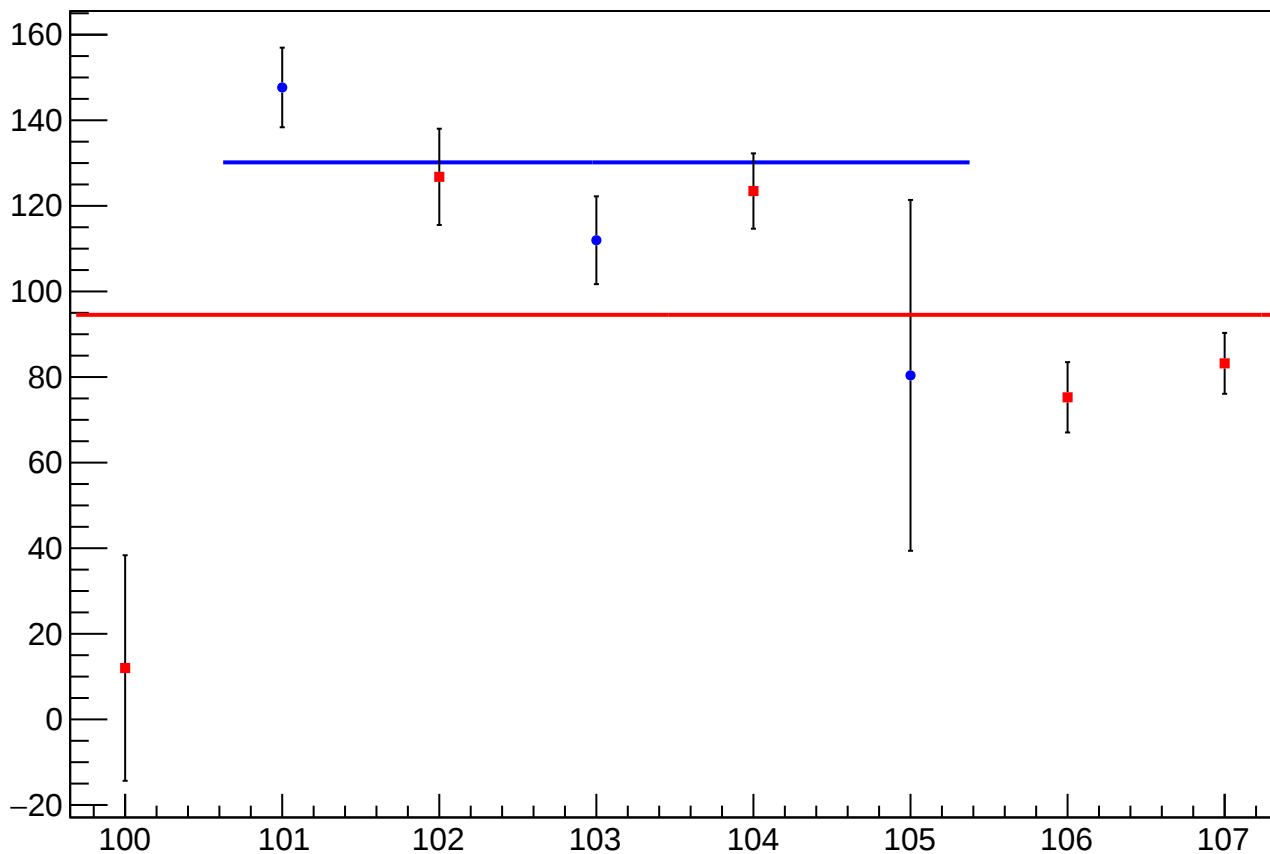
Right Out: 72.462+/-0.107  $\chi^2/\text{NDF}$ : 106556.4/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

95.706+/-0.156  $\chi^2/\text{NDF}$ : 2599.6/2

72.462+/-0.107  $\chi^2/\text{NDF}$ : 106556.4/4

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 130.161 $\pm$ 6.796  $\chi^2$ /NDF: 8.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

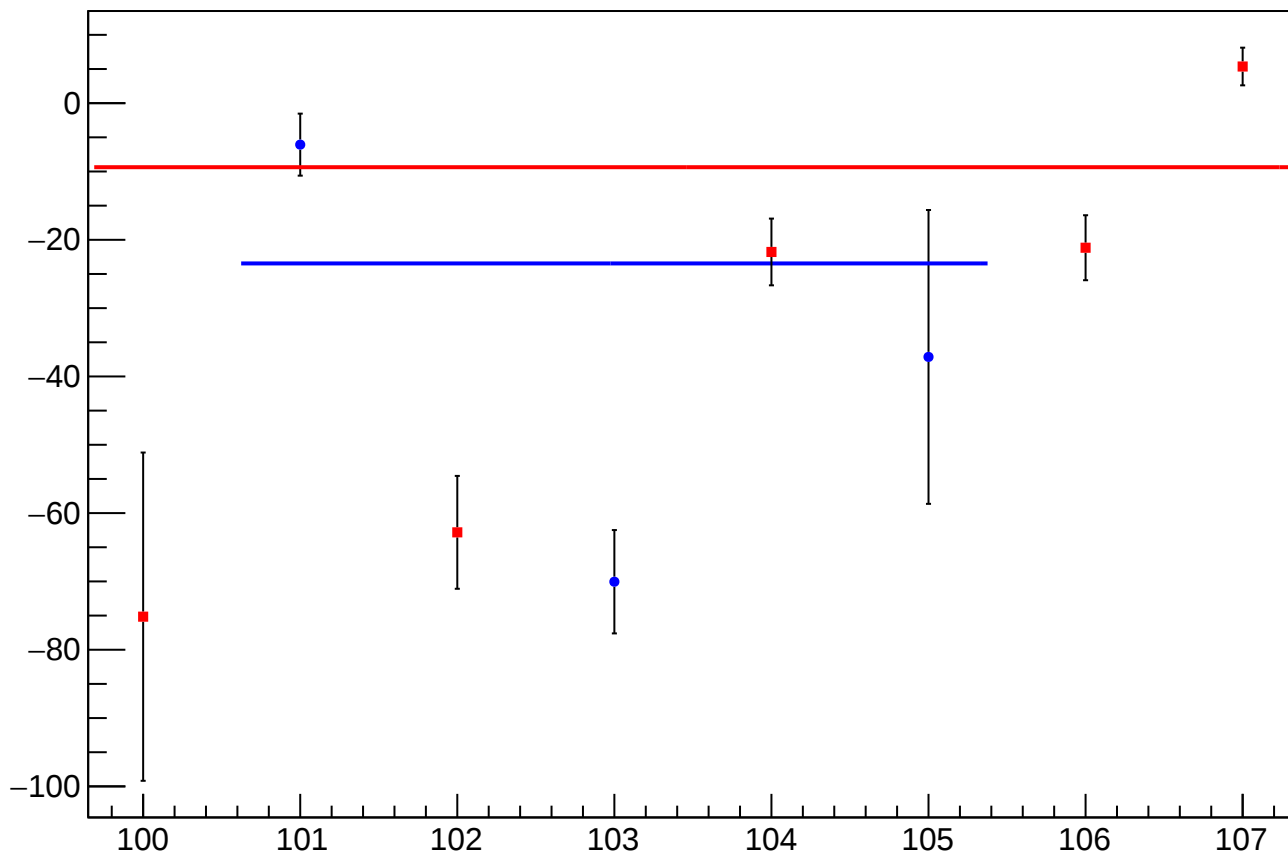
Right Out: 94.538 $\pm$ 4.196  $\chi^2$ /NDF: 36.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

130.161 $\pm$ 6.796  $\chi^2$ /NDF: 8.2/2

94.538 $\pm$ 4.196  $\chi^2$ /NDF: 36.9/4

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs slug



Right In: -23.457+/-3.830  $\chi^2/\text{NDF}$ : 53.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

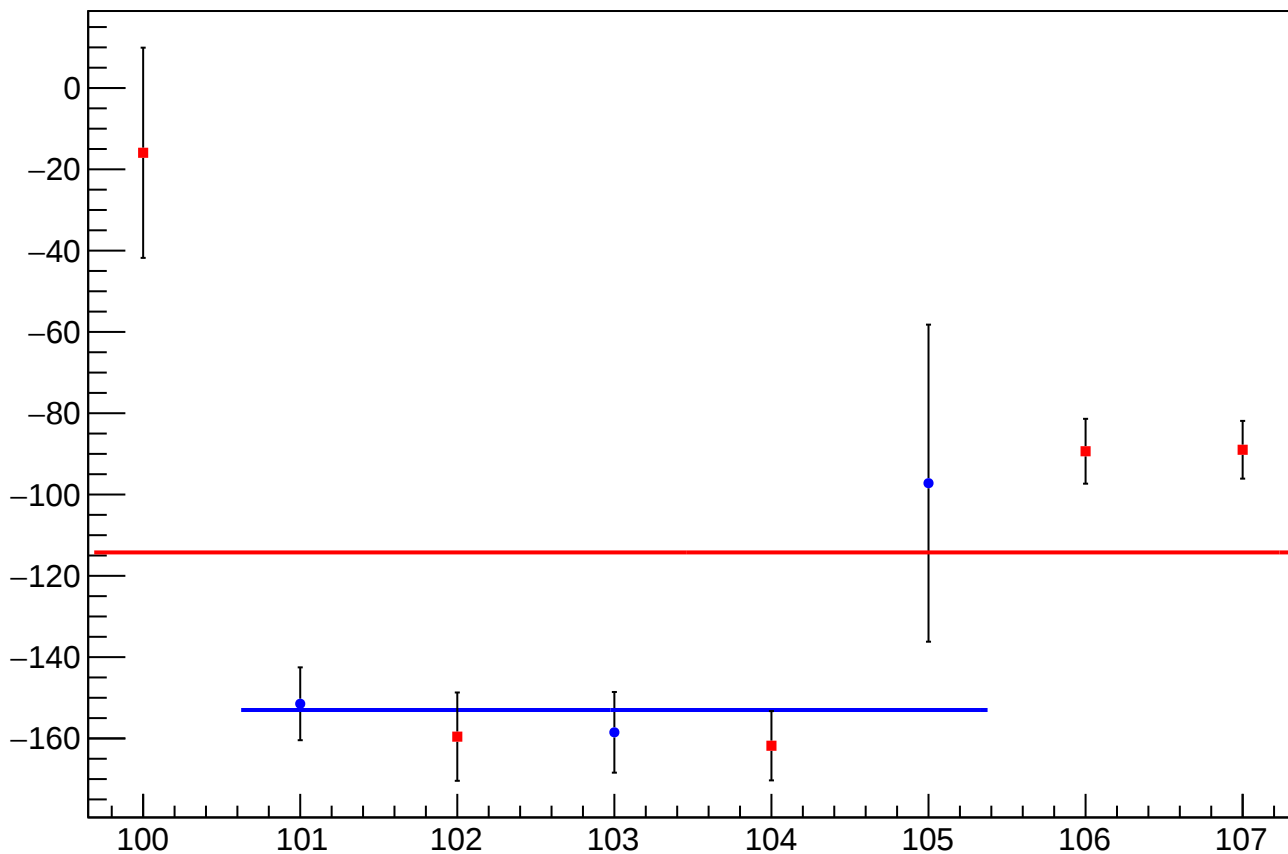
Right Out: -9.372+/-2.067  $\chi^2/\text{NDF}$ : 90.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-23.457+/-3.830  $\chi^2/\text{NDF}$ : 53.0/2

-9.372+/-2.067  $\chi^2/\text{NDF}$ : 90.5/4

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs slug



Right In: -153.006+/-6.556  $\chi^2$ /NDF: 2.4/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

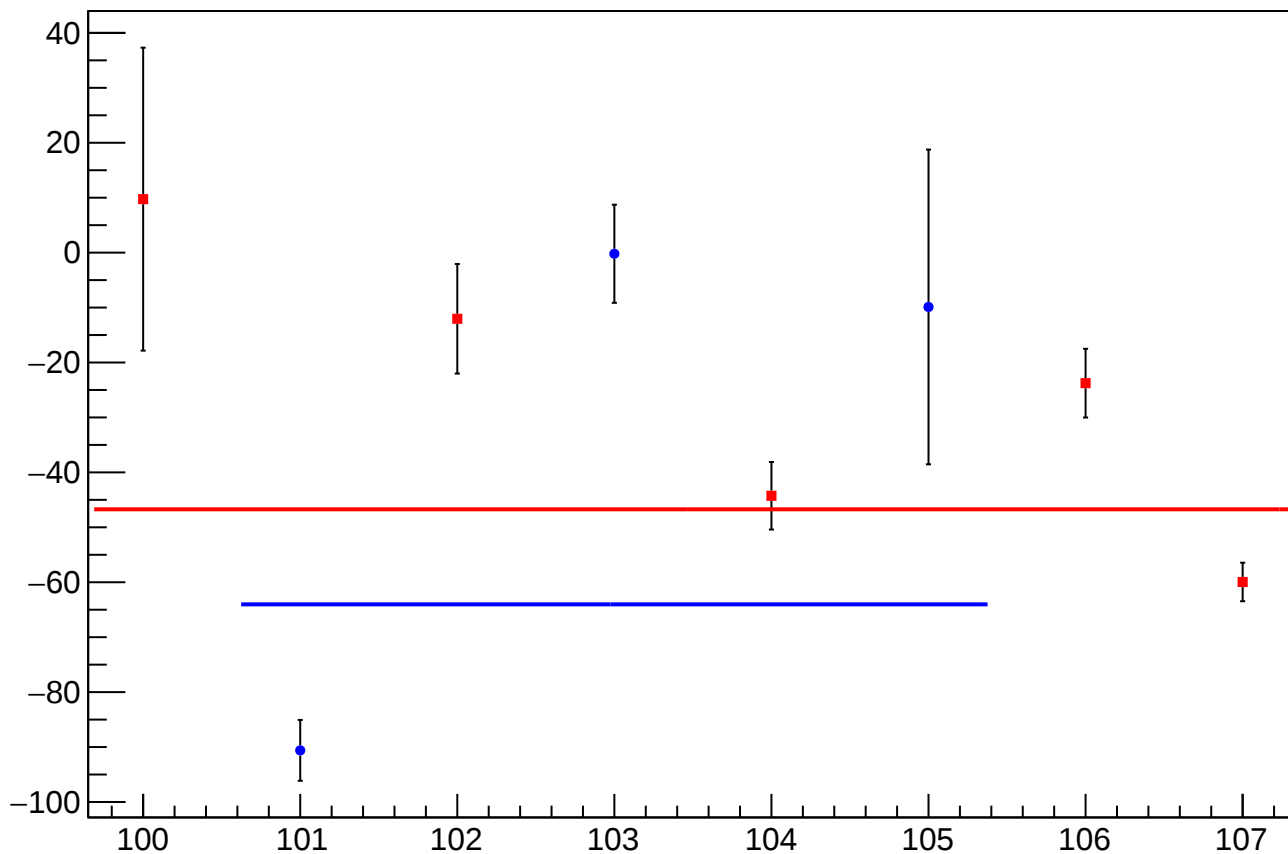
Right Out: -114.242+/-4.107  $\chi^2$ /NDF: 85.4/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-153.006+/-6.556  $\chi^2$ /NDF: 2.4/2

-114.242+/-4.107  $\chi^2$ /NDF: 85.4/4

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs slug



Right In: -64.024 $\pm$ 4.645  $\chi^2$ /NDF: 77.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

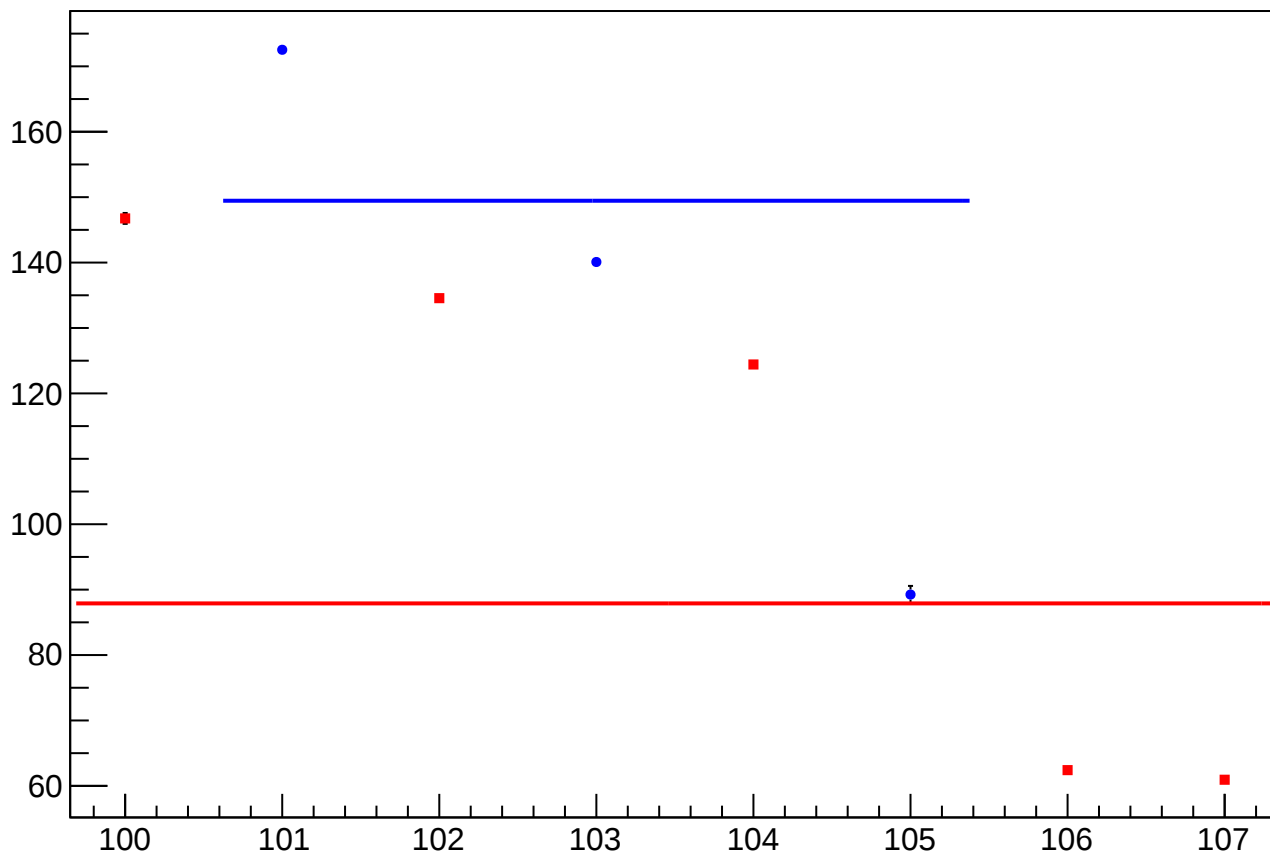
Right Out: -46.725 $\pm$ 2.629  $\chi^2$ /NDF: 44.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-64.024 $\pm$ 4.645  $\chi^2$ /NDF: 77.7/2

-46.725 $\pm$ 2.629  $\chi^2$ /NDF: 44.1/4

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs slug



Right In: 149.452 $\pm$ 0.181  $\chi^2$ /NDF: 8988.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

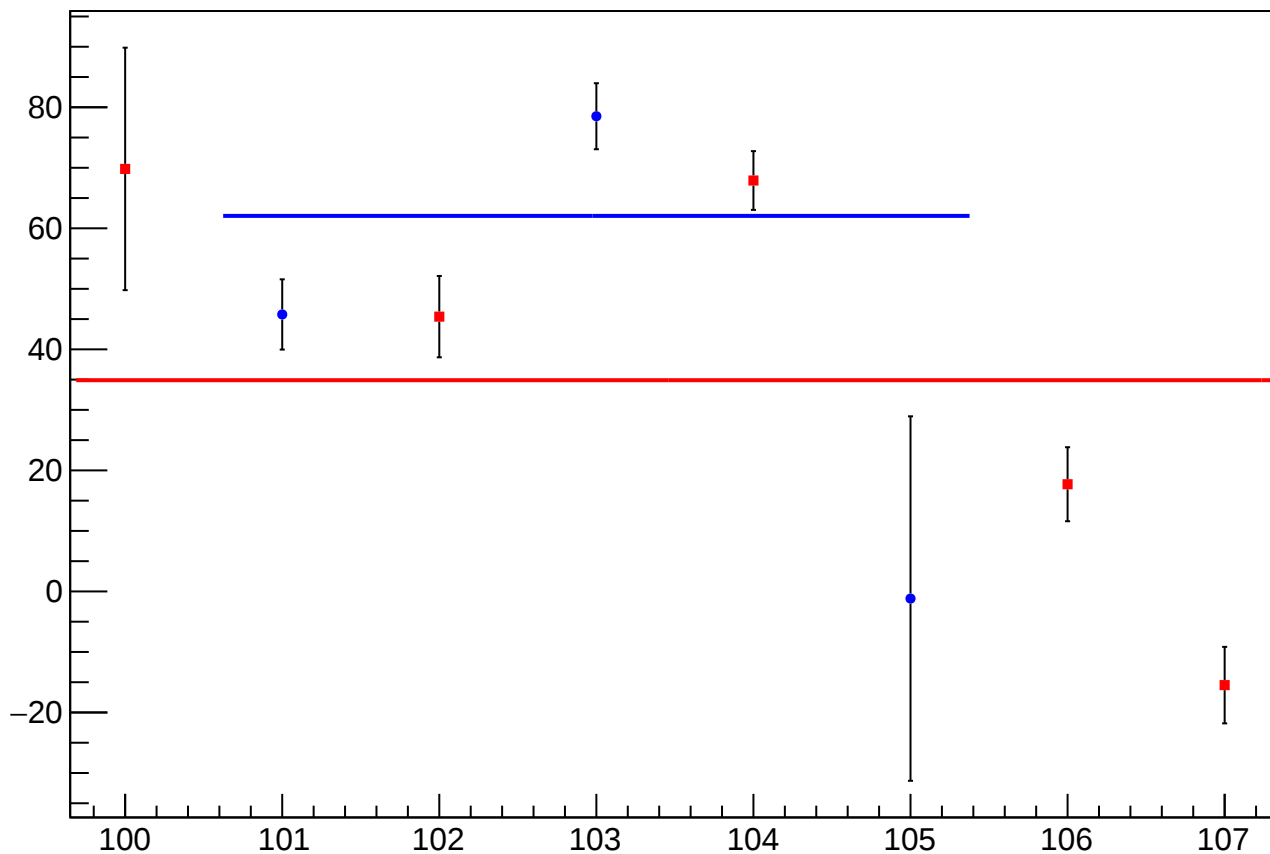
Right Out: 87.896 $\pm$ 0.101  $\chi^2$ /NDF: 108519.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

149.452 $\pm$ 0.181  $\chi^2$ /NDF: 8988.4/2

87.896 $\pm$ 0.101  $\chi^2$ /NDF: 108519.3/4

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 62.054 $\pm$ 3.941  $\chi^2$ /NDF: 21.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

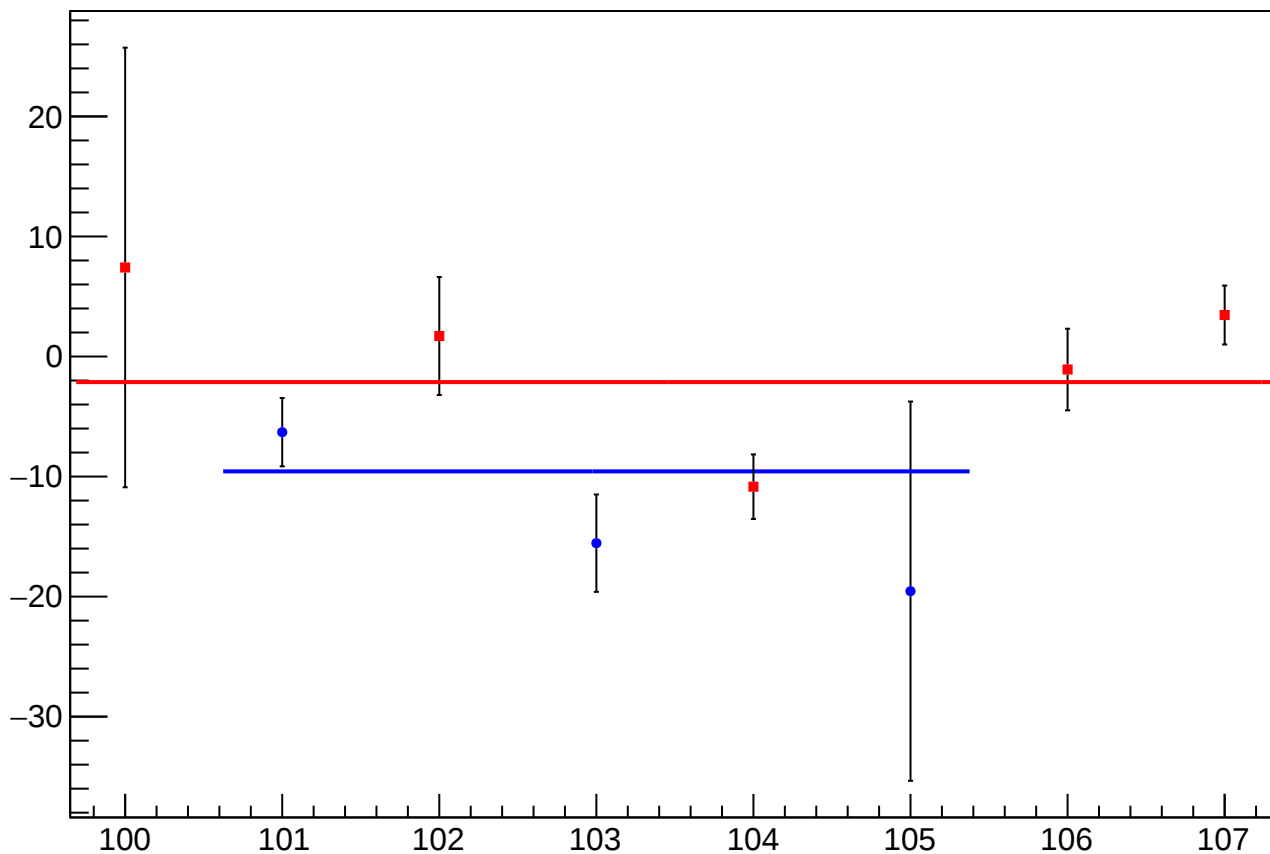
Right Out: 34.901 $\pm$ 2.901  $\chi^2$ /NDF: 123.1/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

62.054 $\pm$ 3.941  $\chi^2$ /NDF: 21.4/2

34.901 $\pm$ 2.901  $\chi^2$ /NDF: 123.1/4

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -9.569+/-2.304  $\chi^2$ /NDF: 3.9/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

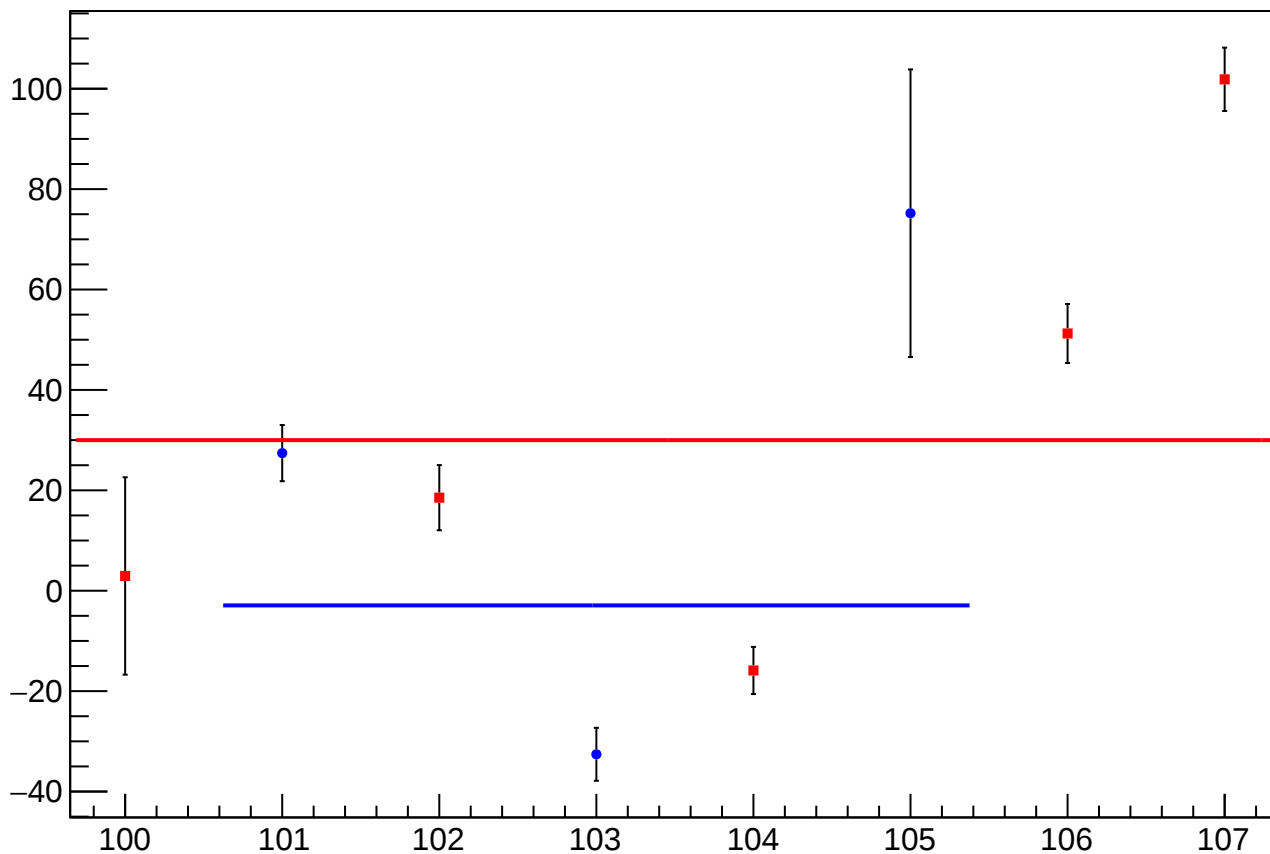
Right Out: -2.131+/-1.516  $\chi^2$ /NDF: 16.7/4

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-9.569+/-2.304  $\chi^2$ /NDF: 3.9/2

-2.131+/-1.516  $\chi^2$ /NDF: 16.7/4

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -2.925+/-3.804  $\chi^2/\text{NDF}$ : 68.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

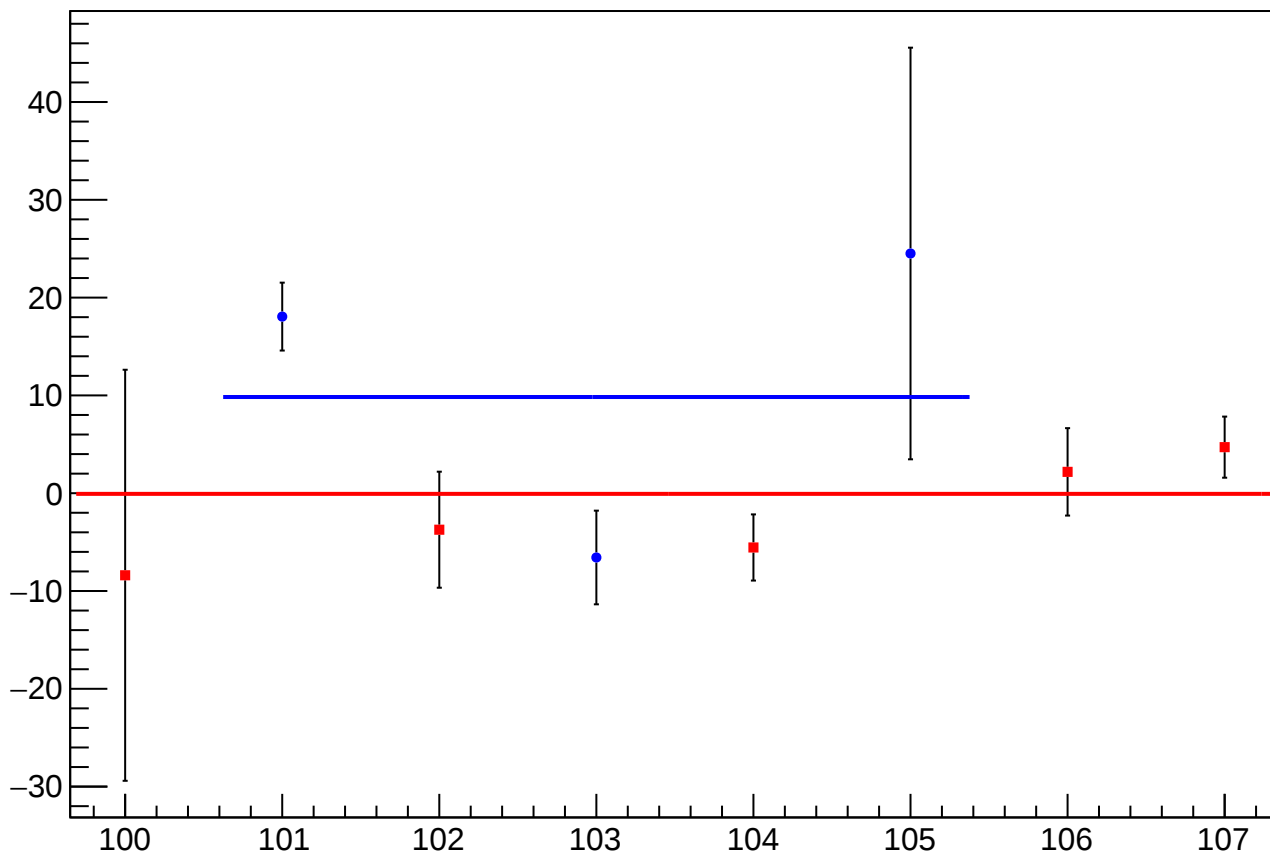
Right Out: 29.996+/-2.821  $\chi^2/\text{NDF}$ : 243.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2.925+/-3.804  $\chi^2/\text{NDF}$ : 68.5/2

29.996+/-2.821  $\chi^2/\text{NDF}$ : 243.2/4

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs slug



Right In:  $9.836 \pm 2.786$   $\chi^2/\text{NDF}$ : 17.8/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

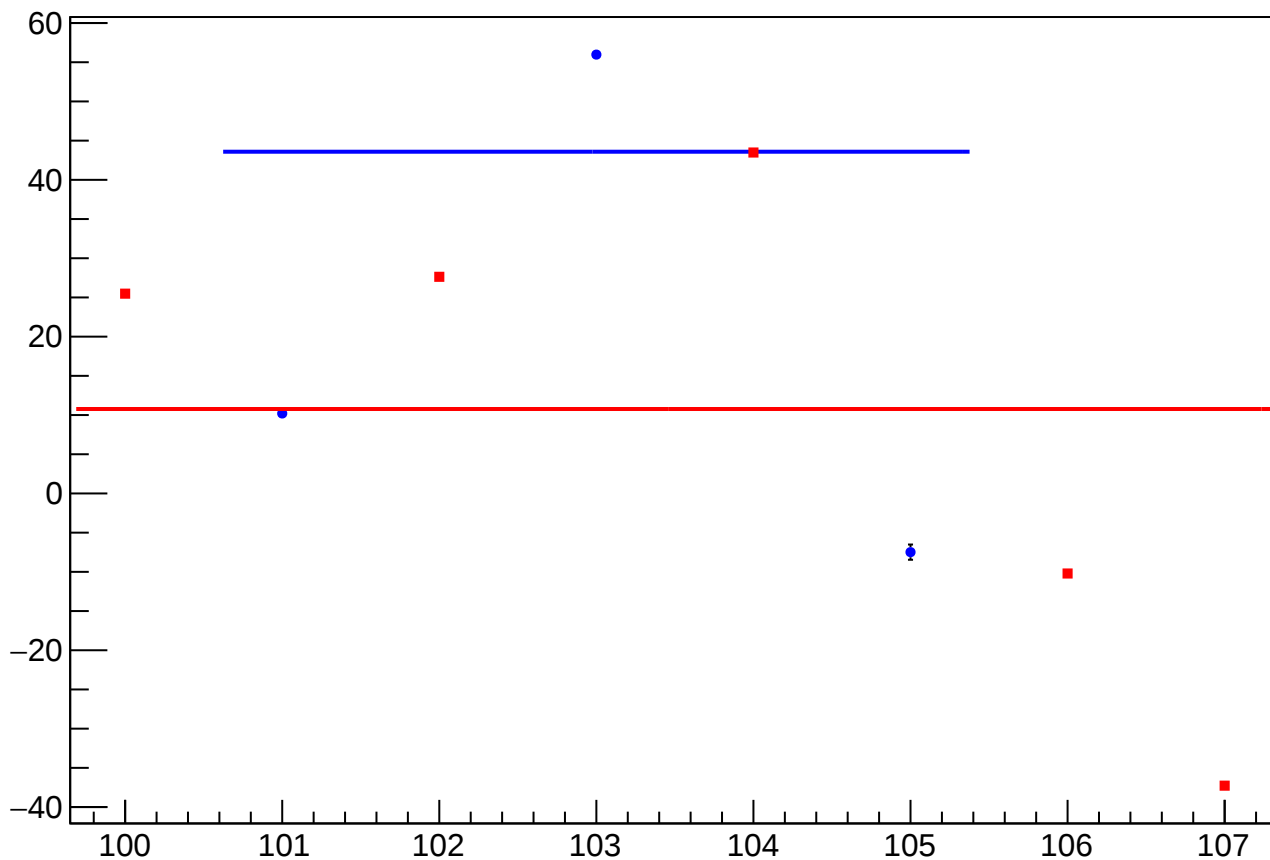
Right Out:  $-0.067 \pm 1.922$   $\chi^2/\text{NDF}$ : 5.8/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$9.836 \pm 2.786$   $\chi^2/\text{NDF}$ : 17.8/2

$-0.067 \pm 1.922$   $\chi^2/\text{NDF}$ : 5.8/4

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs slug



Right In: 43.587+/-0.101  $\chi^2/\text{NDF}$ : 41393.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

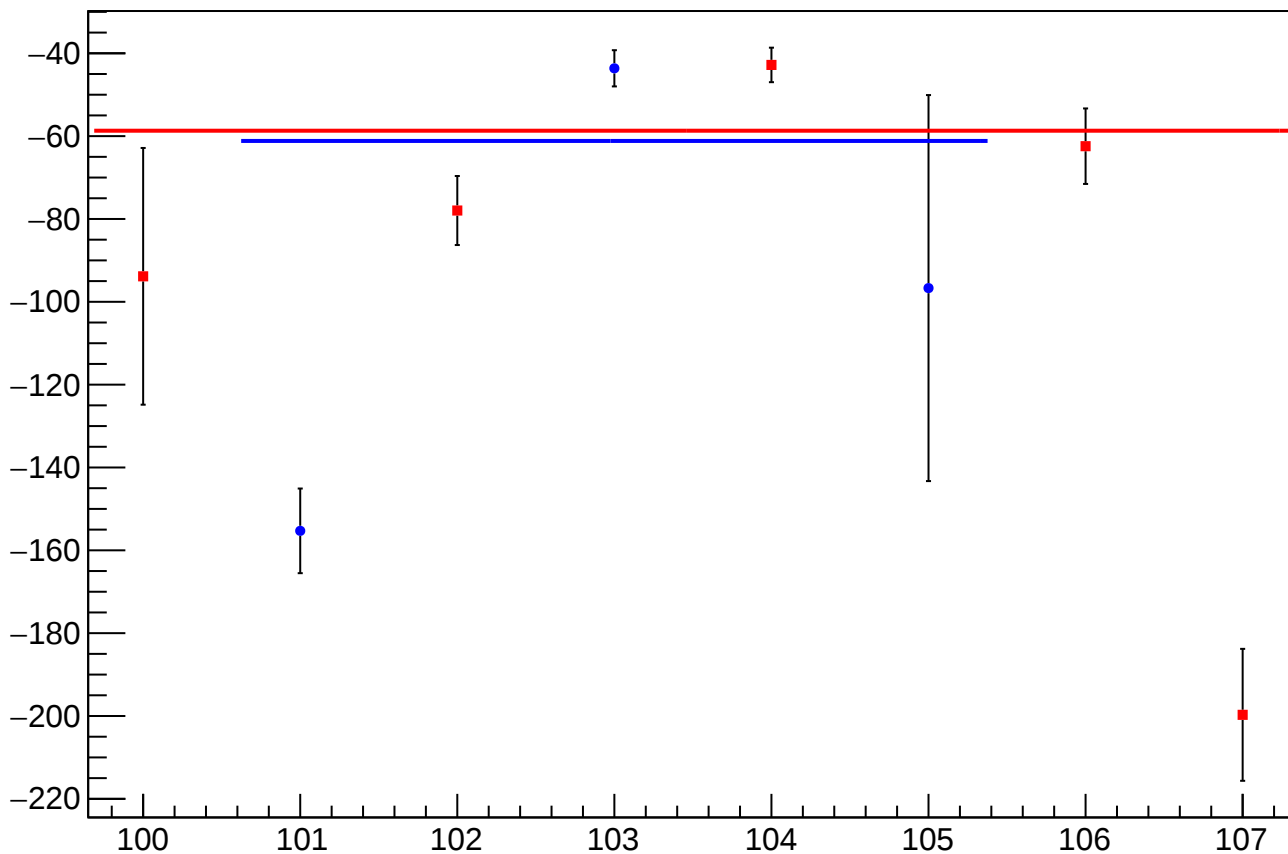
Right Out: 10.771+/-0.071  $\chi^2/\text{NDF}$ : 213620.9/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

43.587+/-0.101  $\chi^2/\text{NDF}$ : 41393.0/2

10.771+/-0.071  $\chi^2/\text{NDF}$ : 213620.9/4

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aX\_slope vs slug



Right In: -61.162+/-4.004  $\chi^2/\text{NDF}$ : 101.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

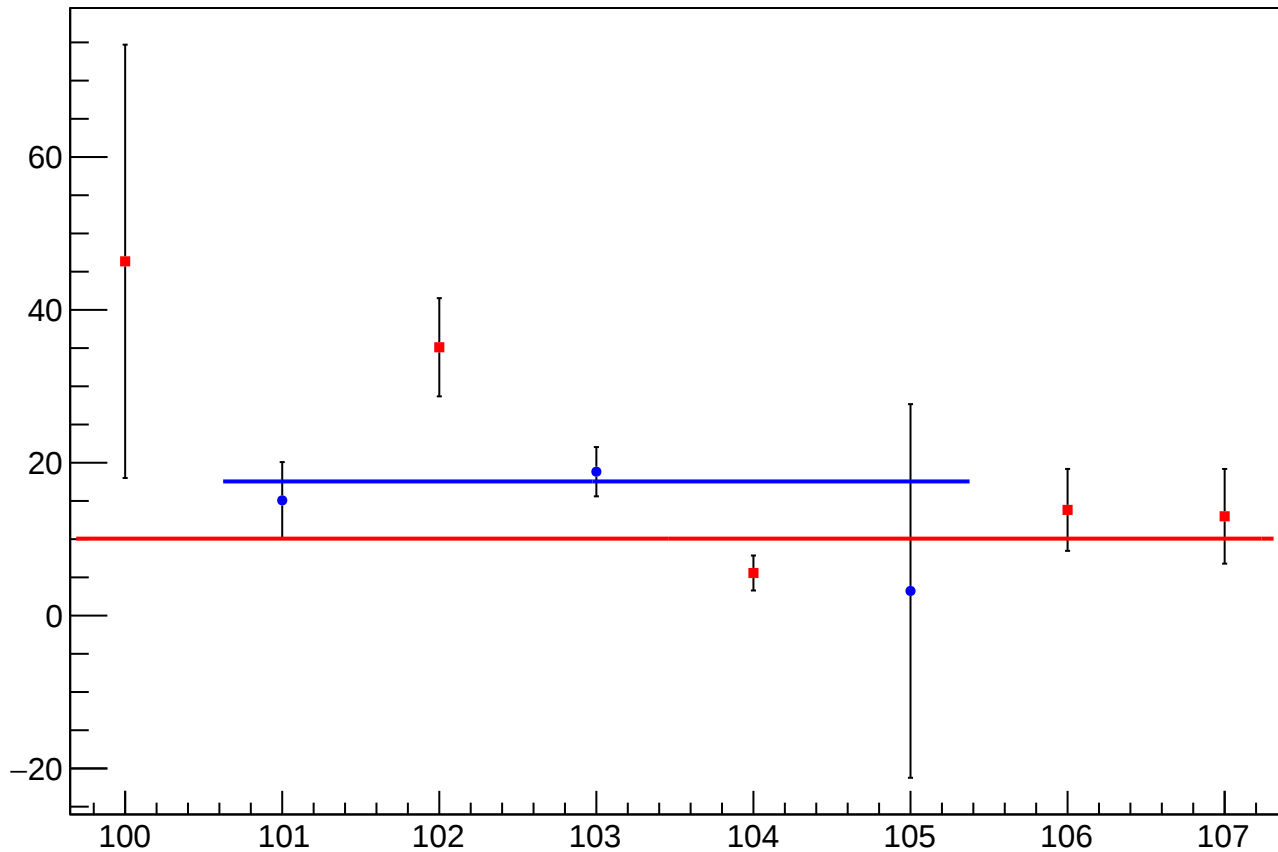
Right Out: -58.691+/-3.351  $\chi^2/\text{NDF}$ : 99.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-61.162+/-4.004  $\chi^2/\text{NDF}$ : 101.5/2

-58.691+/-3.351  $\chi^2/\text{NDF}$ : 99.7/4

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs slug



Right In:  $17.553 \pm 2.694$   $\chi^2/\text{NDF}: 0.7/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

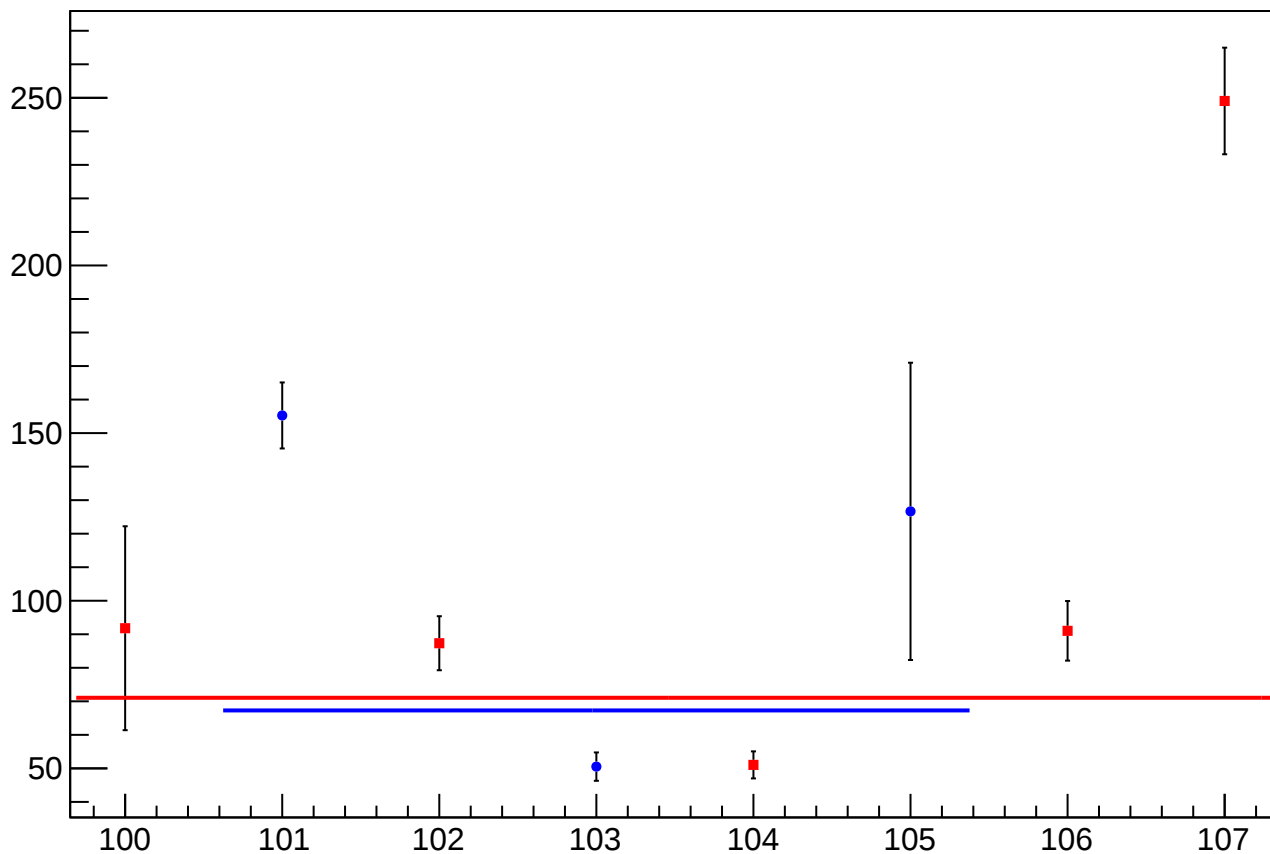
Right Out:  $10.071 \pm 1.899$   $\chi^2/\text{NDF}: 21.4/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$17.553 \pm 2.694$   $\chi^2/\text{NDF}: 0.7/2$

$10.071 \pm 1.899$   $\chi^2/\text{NDF}: 21.4/4$

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 67.284+/-3.870  $\chi^2/\text{NDF}$ : 97.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

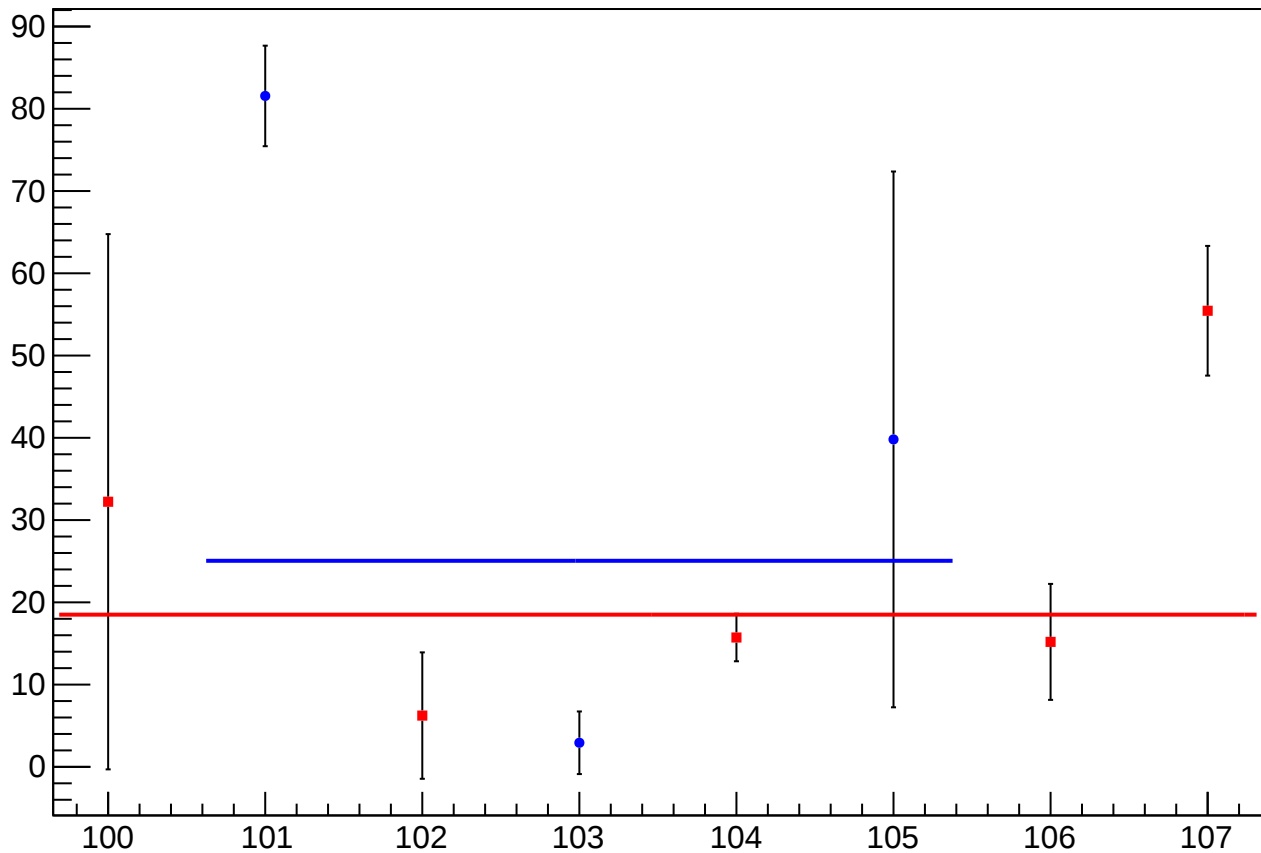
Right Out: 71.060+/-3.252  $\chi^2/\text{NDF}$ : 159.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

67.284+/-3.870  $\chi^2/\text{NDF}$ : 97.4/2

71.060+/-3.252  $\chi^2/\text{NDF}$ : 159.6/4

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 25.051+/-3.215  $\chi^2/\text{NDF}$ : 119.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

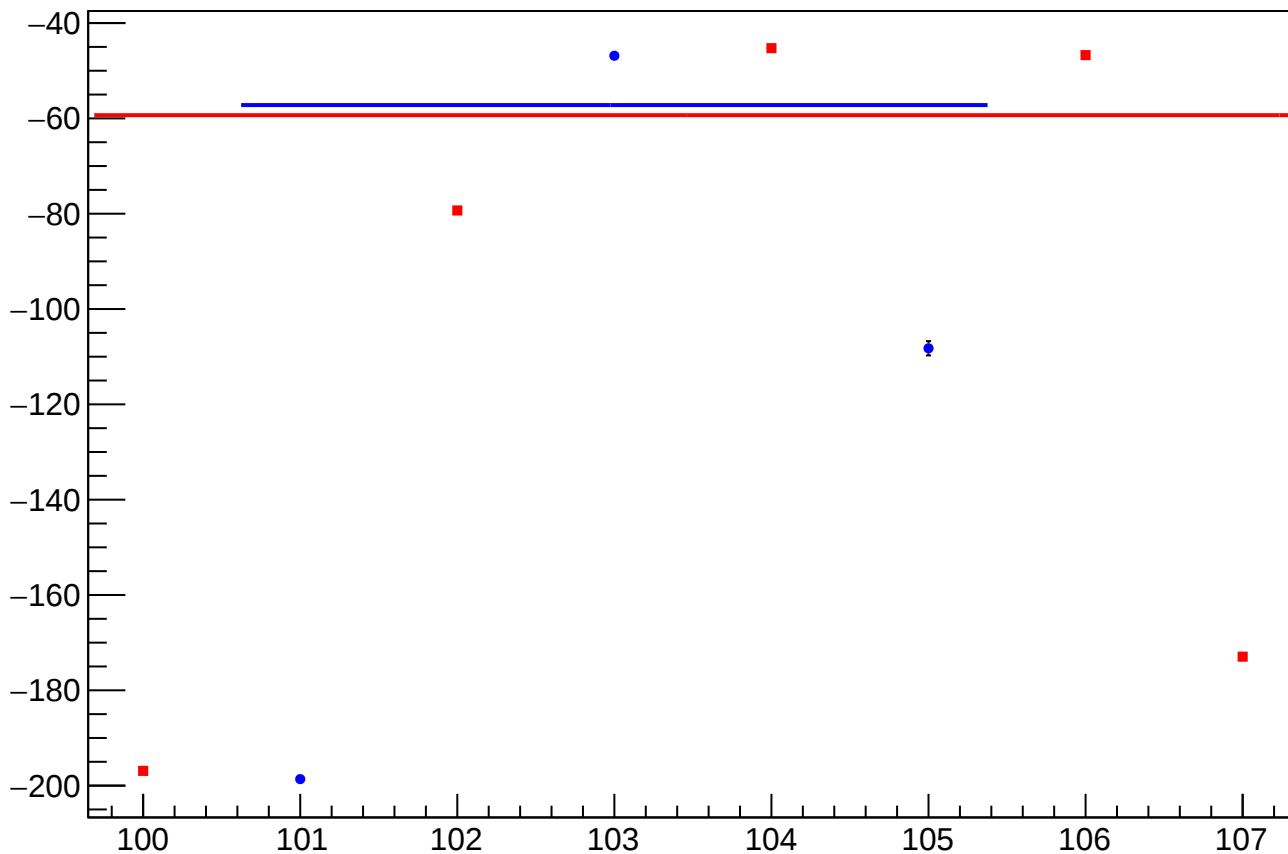
Right Out: 18.504+/-2.398  $\chi^2/\text{NDF}$ : 25.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

25.051+/-3.215  $\chi^2/\text{NDF}$ : 119.5/2

18.504+/-2.398  $\chi^2/\text{NDF}$ : 25.8/4

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs slug



Right In: -57.205+/-0.092  $\chi^2/\text{NDF}$ : 172340.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

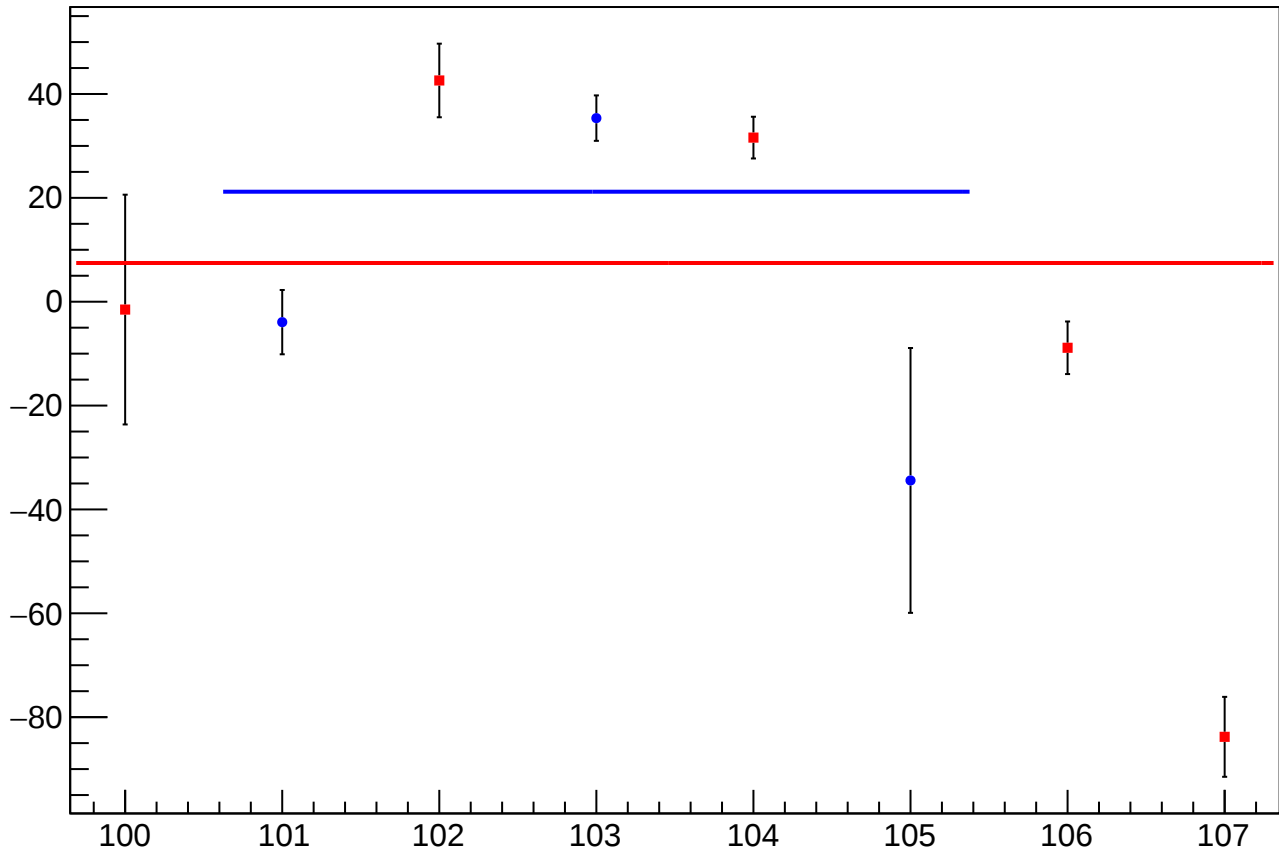
Right Out: -59.325+/-0.081  $\chi^2/\text{NDF}$ : 149717.5/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-57.205+/-0.092  $\chi^2/\text{NDF}$ : 172340.8/2

-59.325+/-0.081  $\chi^2/\text{NDF}$ : 149717.5/4

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 21.182+/-3.538  $\chi^2/\text{NDF}$ : 31.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

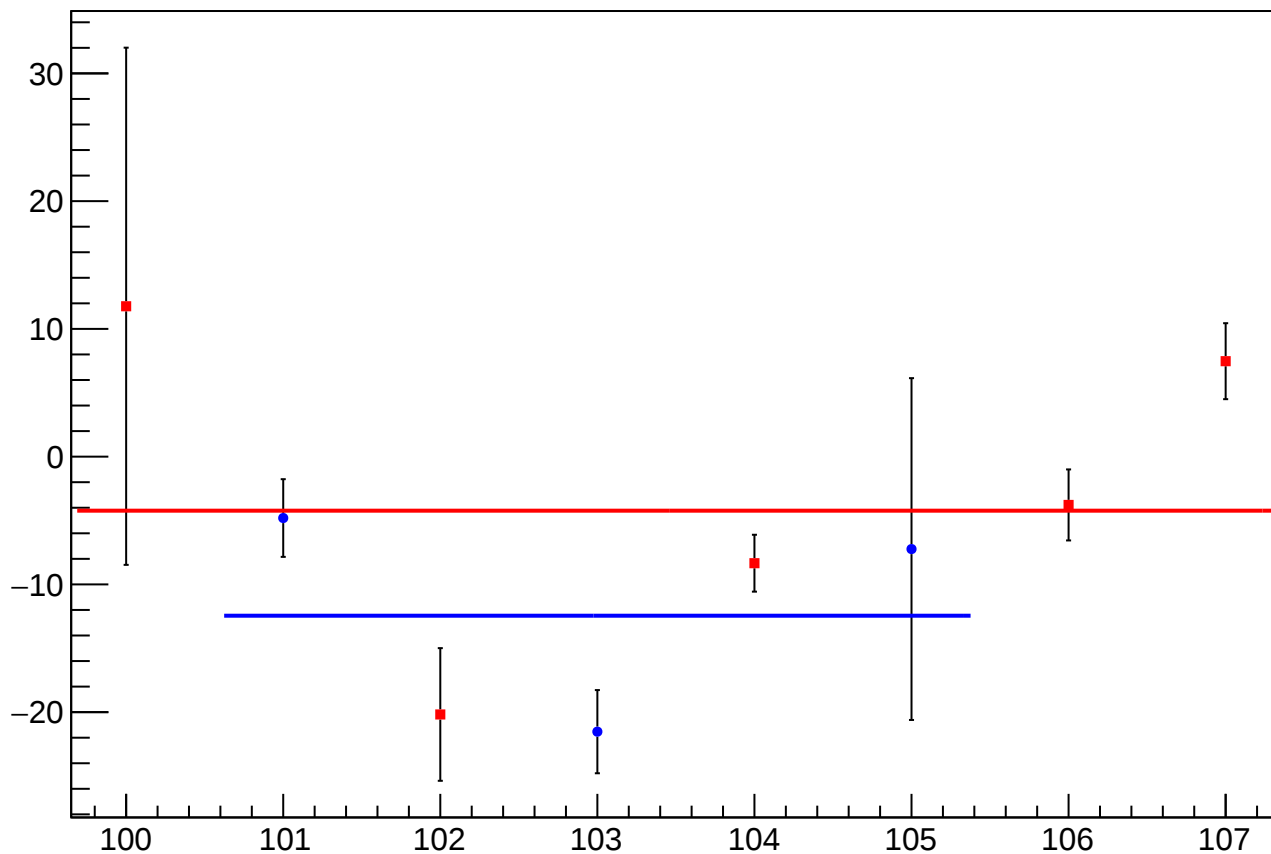
Right Out: 7.456+/-2.674  $\chi^2/\text{NDF}$ : 211.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

21.182+/-3.538  $\chi^2/\text{NDF}$ : 31.7/2

7.456+/-2.674  $\chi^2/\text{NDF}$ : 211.8/4

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs slug



Right In: -12.451 $\pm$ 2.192  $\chi^2$ /NDF: 14.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

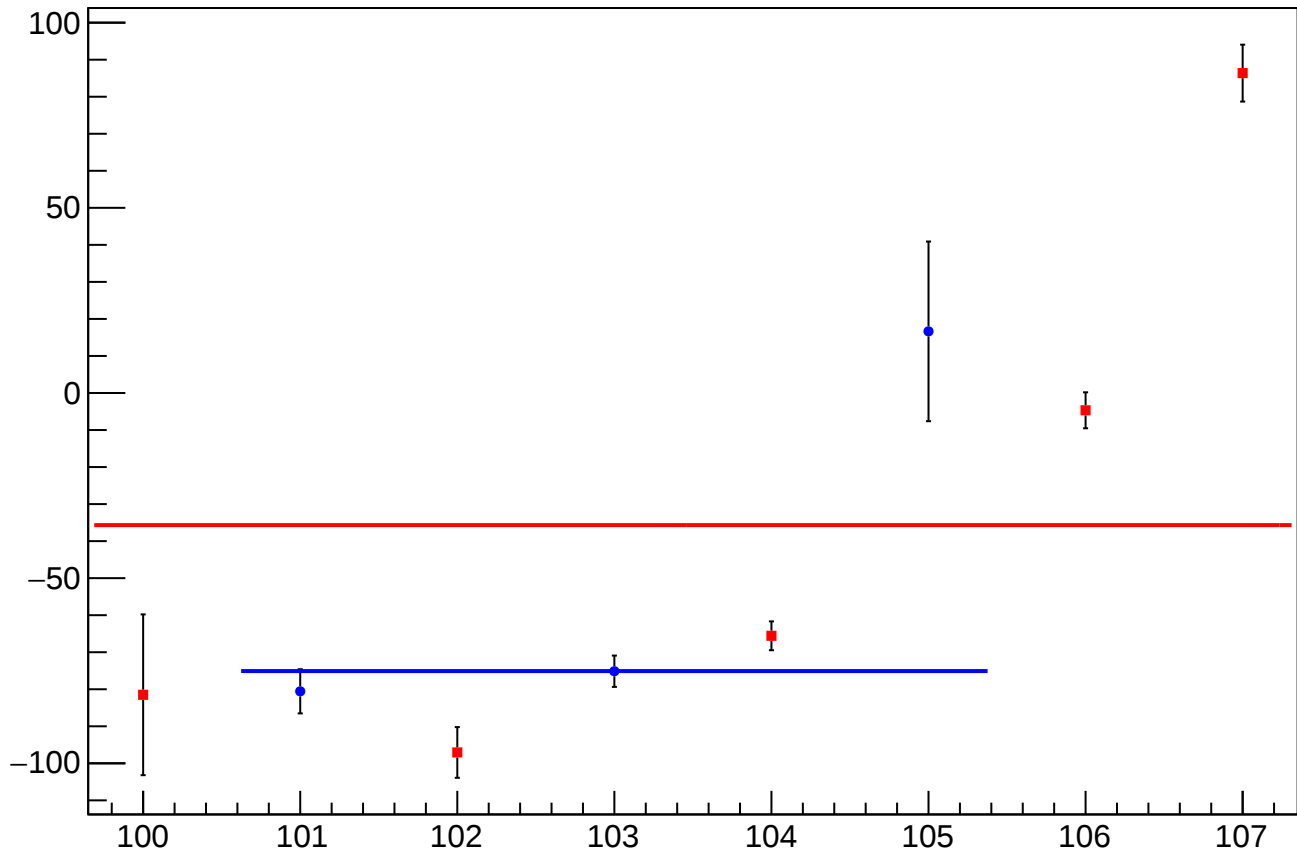
Right Out: -4.229 $\pm$ 1.438  $\chi^2$ /NDF: 29.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-12.451 $\pm$ 2.192  $\chi^2$ /NDF: 14.2/2

-4.229 $\pm$ 1.438  $\chi^2$ /NDF: 29.0/4

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs slug



Right In: -75.091+/-3.416  $\chi^2/\text{NDF}$ : 15.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

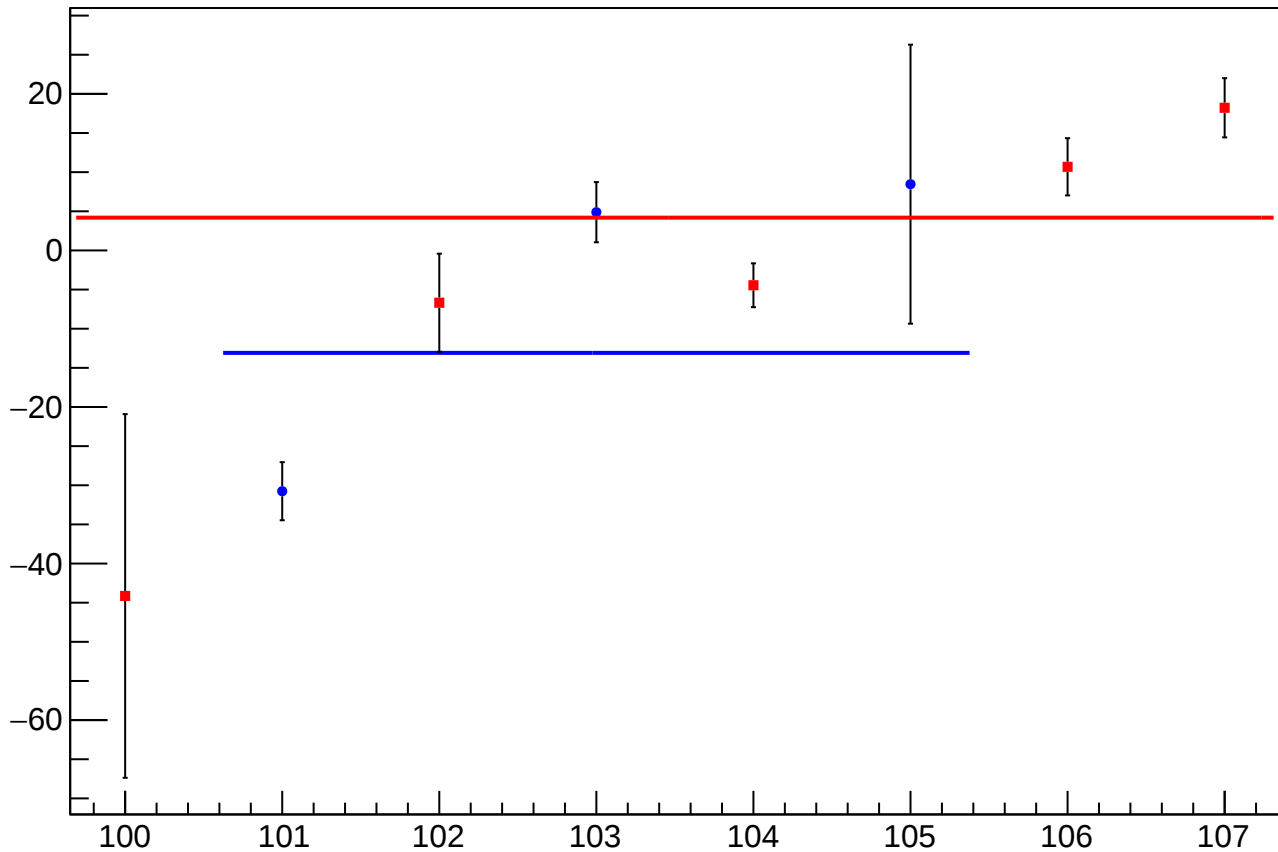
Right Out: -35.674+/-2.592  $\chi^2/\text{NDF}$ : 437.1/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-75.091+/-3.416  $\chi^2/\text{NDF}$ : 15.1/2

-35.674+/-2.592  $\chi^2/\text{NDF}$ : 437.1/4

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs slug



Right In: -13.085 $\pm$ 2.640  $\chi^2$ /NDF: 46.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

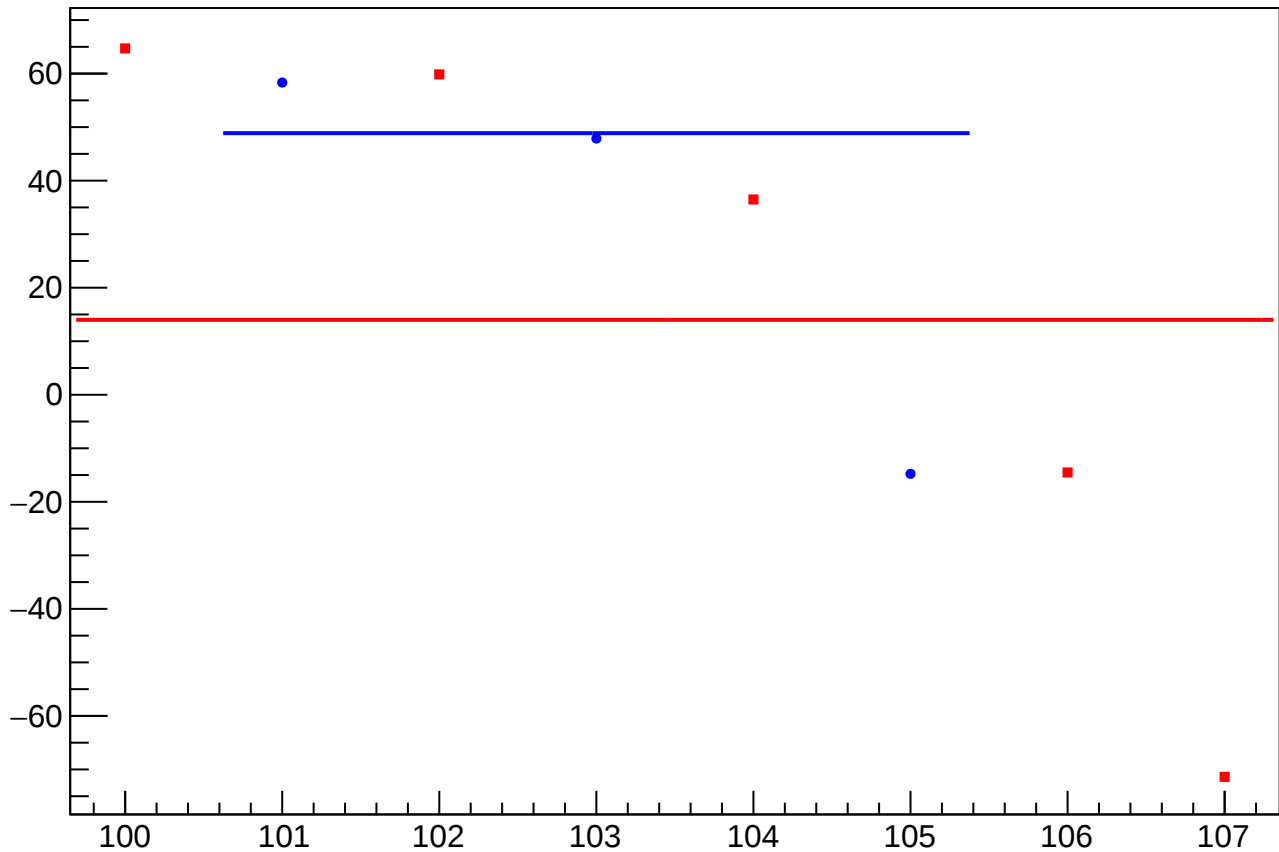
Right Out: 4.188 $\pm$ 1.827  $\chi^2$ /NDF: 33.8/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-13.085 $\pm$ 2.640  $\chi^2$ /NDF: 46.0/2

4.188 $\pm$ 1.827  $\chi^2$ /NDF: 33.8/4

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs slug



Right In: 48.869+/-0.086  $\chi^2/\text{NDF}$ : 8046.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

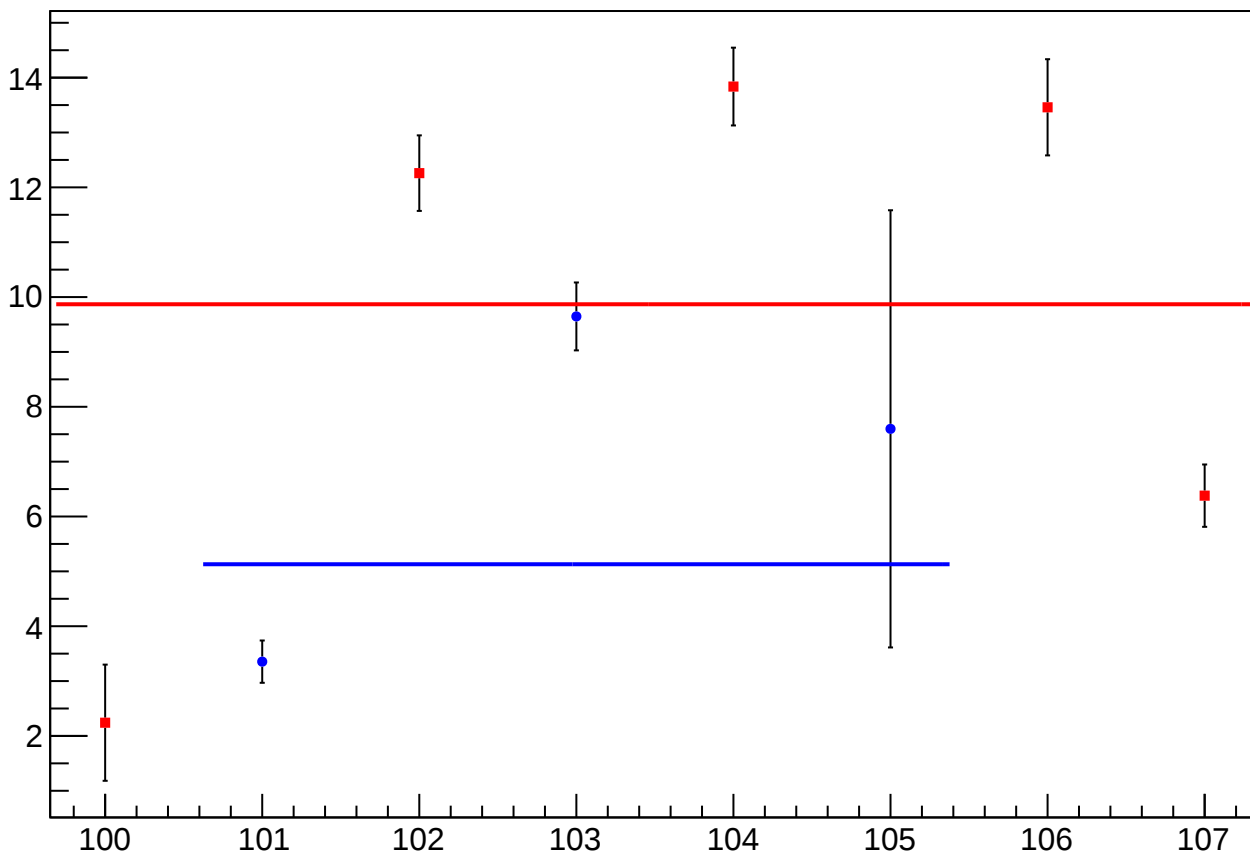
48.869+/-0.086  $\chi^2/\text{NDF}$ : 8046.1/2

Right Out: 13.996+/-0.066  $\chi^2/\text{NDF}$ : 416408.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13.996+/-0.066  $\chi^2/\text{NDF}$ : 416408.3/4

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aX\_slope vs slug



Right In: 5.130+/-0.326  $\chi^2/\text{NDF}$ : 74.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

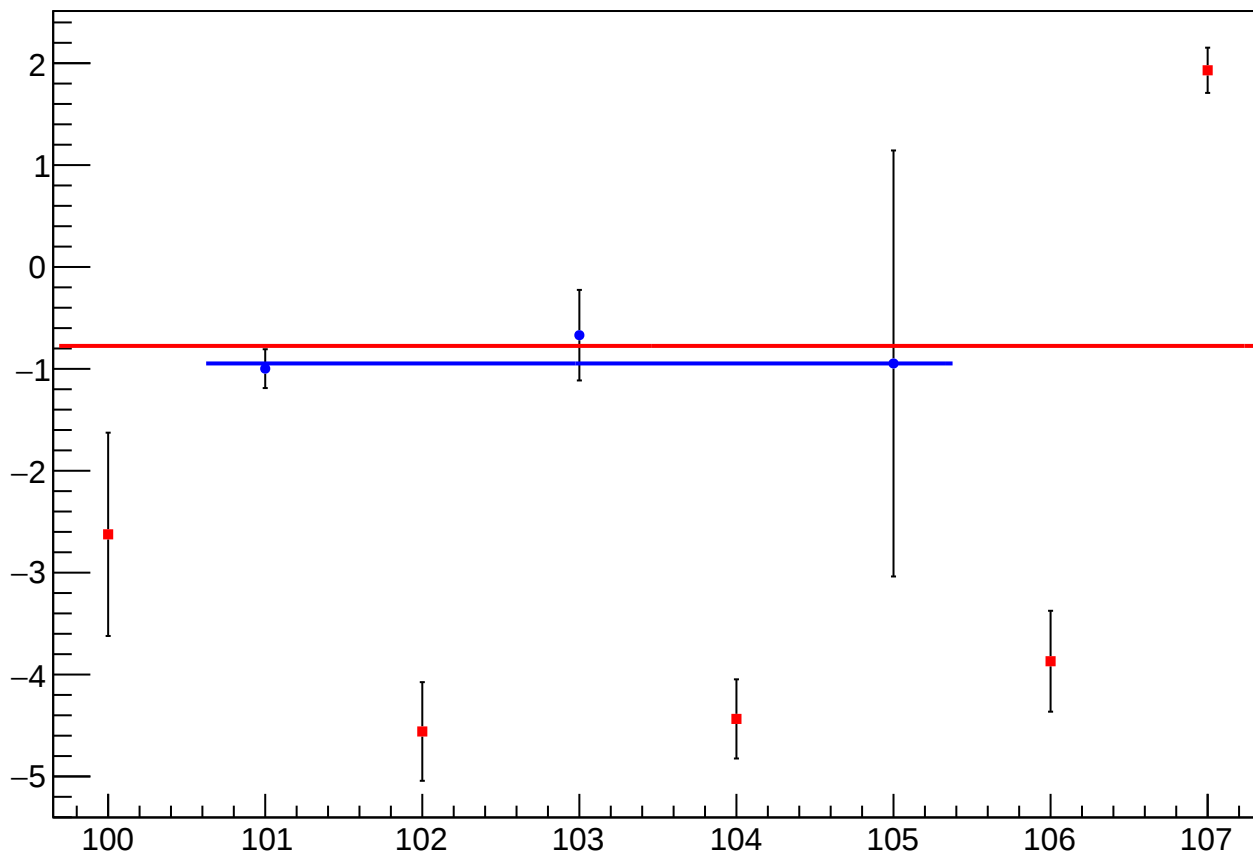
Right Out: 9.869+/-0.326  $\chi^2/\text{NDF}$ : 149.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.130+/-0.326  $\chi^2/\text{NDF}$ : 74.9/2

9.869+/-0.326  $\chi^2/\text{NDF}$ : 149.7/4

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs slug



Right In:  $-0.947 \pm 0.174$   $\chi^2/\text{NDF}$ : 0.5/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

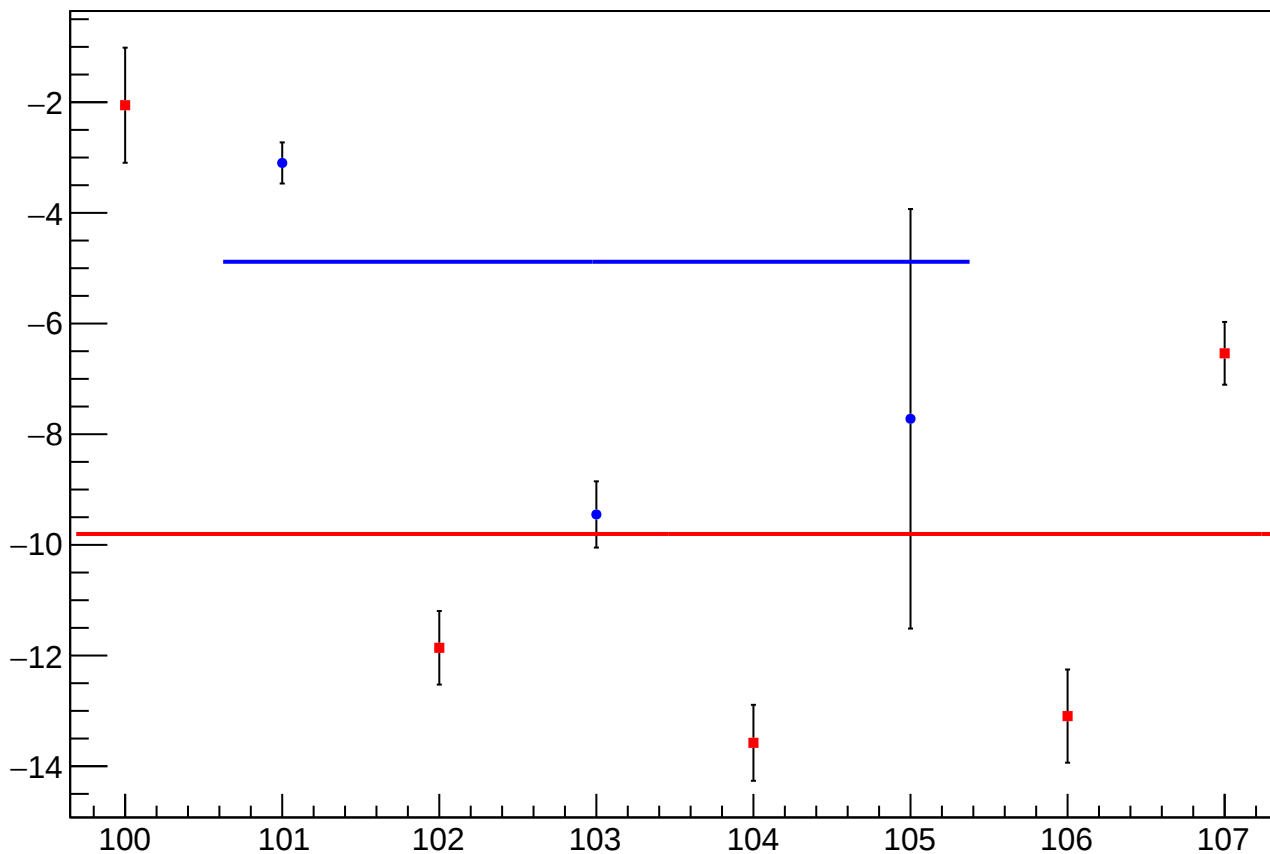
Right Out:  $-0.775 \pm 0.166$   $\chi^2/\text{NDF}$ : 340.8/4

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

$-0.947 \pm 0.174$   $\chi^2/\text{NDF}$ : 0.5/2

$-0.775 \pm 0.166$   $\chi^2/\text{NDF}$ : 340.8/4

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs slug



Right In: -4.883+/-0.315  $\chi^2/\text{NDF}$ : 81.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

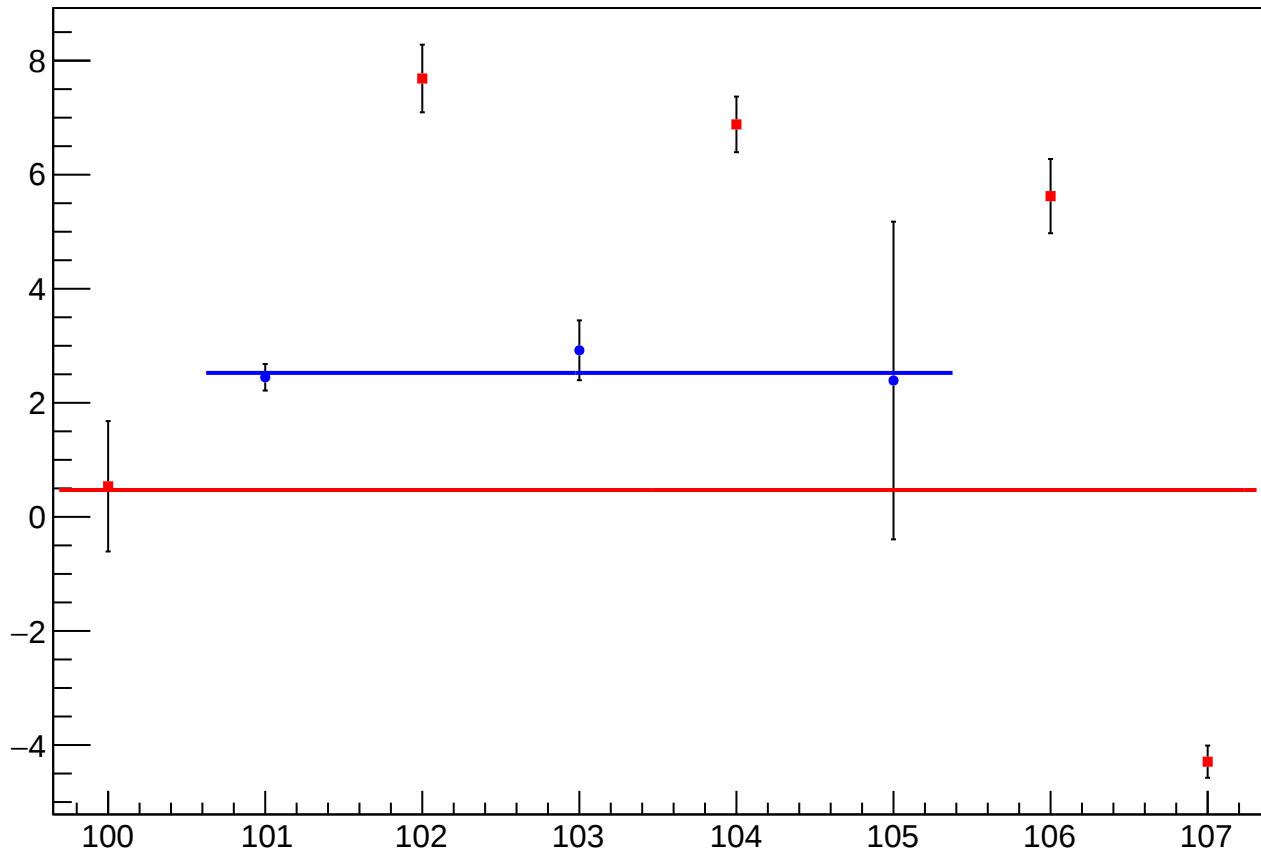
Right Out: -9.803+/-0.319  $\chi^2/\text{NDF}$ : 143.7/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.883+/-0.315  $\chi^2/\text{NDF}$ : 81.9/2

-9.803+/-0.319  $\chi^2/\text{NDF}$ : 143.7/4

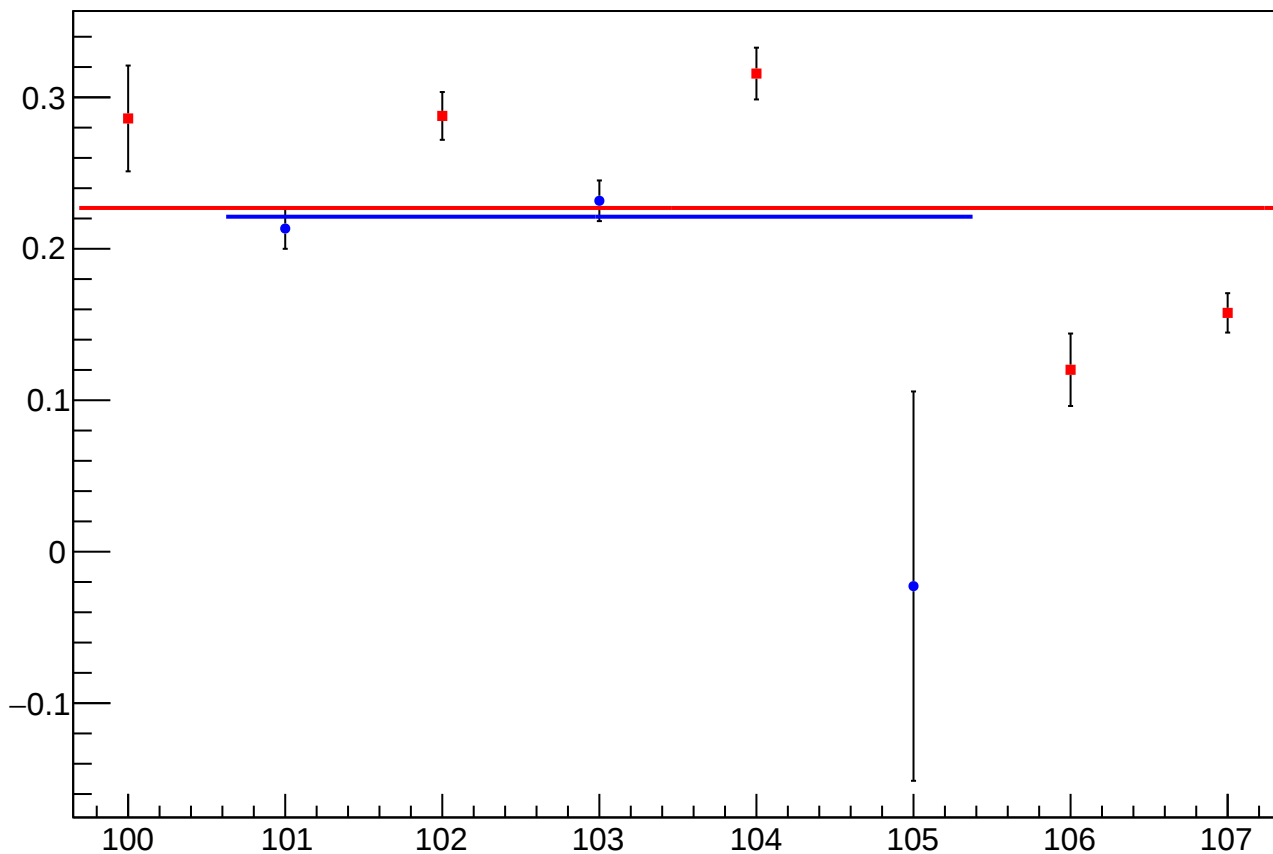
reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs slug



Right In: 2.525 $\pm$ 0.212  $\chi^2/\text{NDF}$ : 0.7/2  
 Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.471 $\pm$ 0.210  $\chi^2/\text{NDF}$ : 668.0/4  
 Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.525 $\pm$ 0.212  $\chi^2/\text{NDF}$ : 0.7/2  
 0.471 $\pm$ 0.210  $\chi^2/\text{NDF}$ : 668.0/4

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs slug



Right In: 0.221+/-0.009  $\chi^2/\text{NDF}$ : 4.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

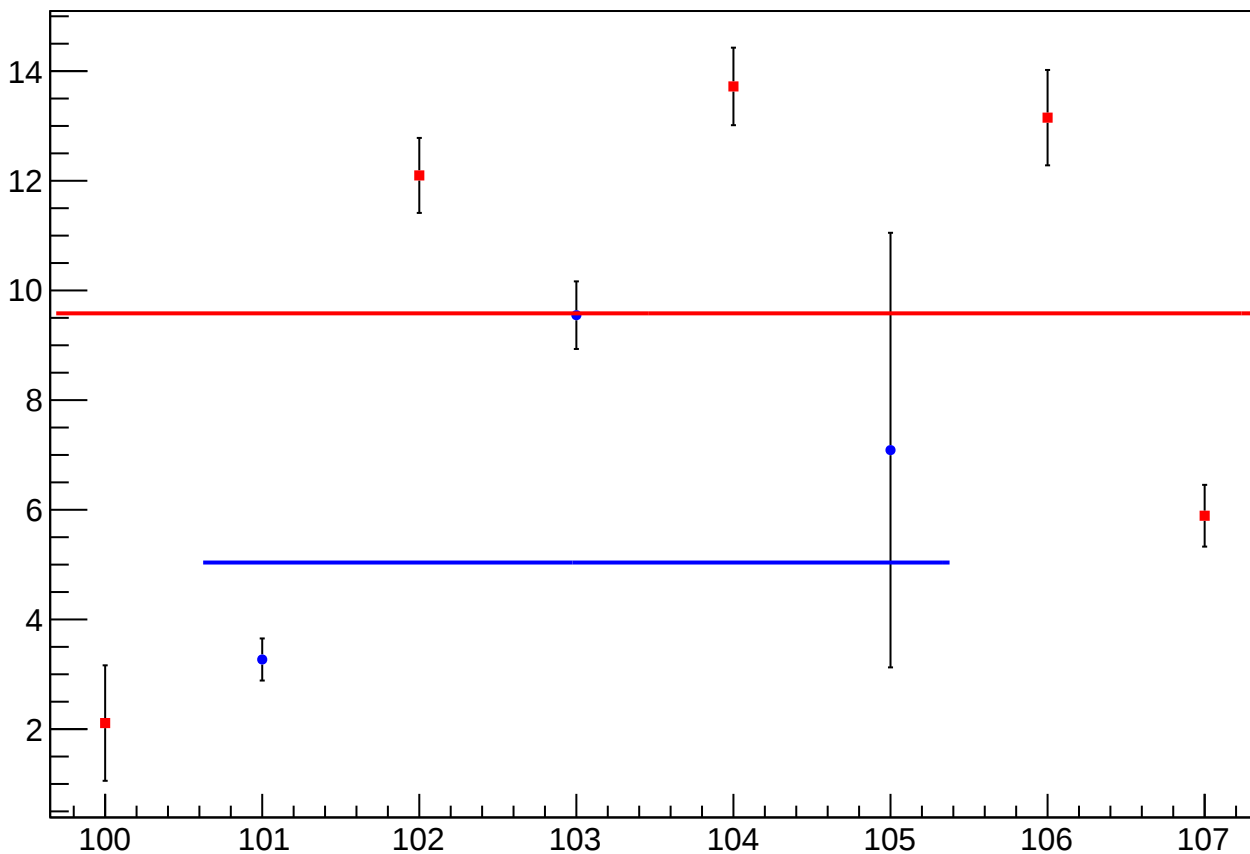
Right Out: 0.227+/-0.008  $\chi^2/\text{NDF}$ : 93.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.221+/-0.009  $\chi^2/\text{NDF}$ : 4.6/2

0.227+/-0.008  $\chi^2/\text{NDF}$ : 93.0/4

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aX\_slope vs slug



Right In: 5.038+/-0.325  $\chi^2/\text{NDF}$ : 75.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

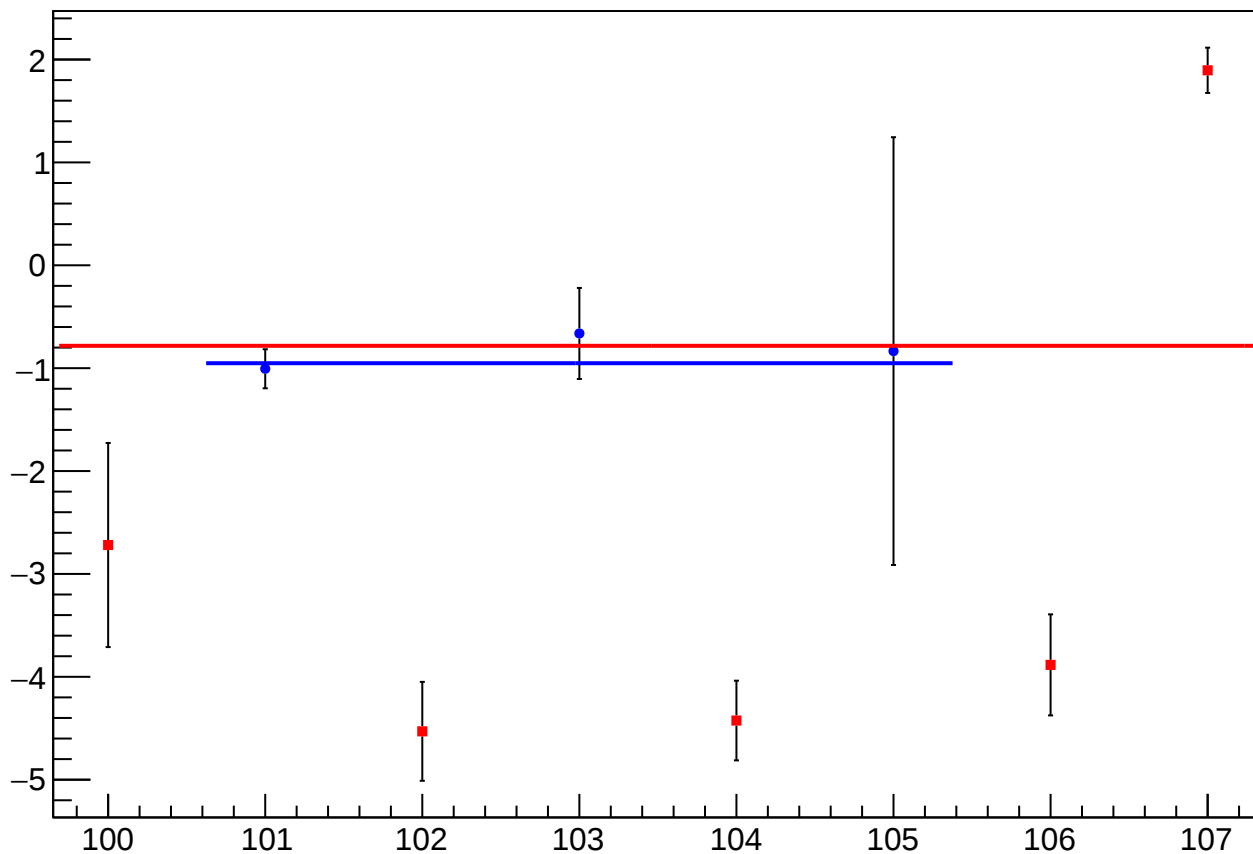
Right Out: 9.582+/-0.324  $\chi^2/\text{NDF}$ : 158.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.038+/-0.325  $\chi^2/\text{NDF}$ : 75.0/2

9.582+/-0.324  $\chi^2/\text{NDF}$ : 158.0/4

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs slug



Right In:  $-0.952 \pm 0.174$   $\chi^2/\text{NDF}: 0.5/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

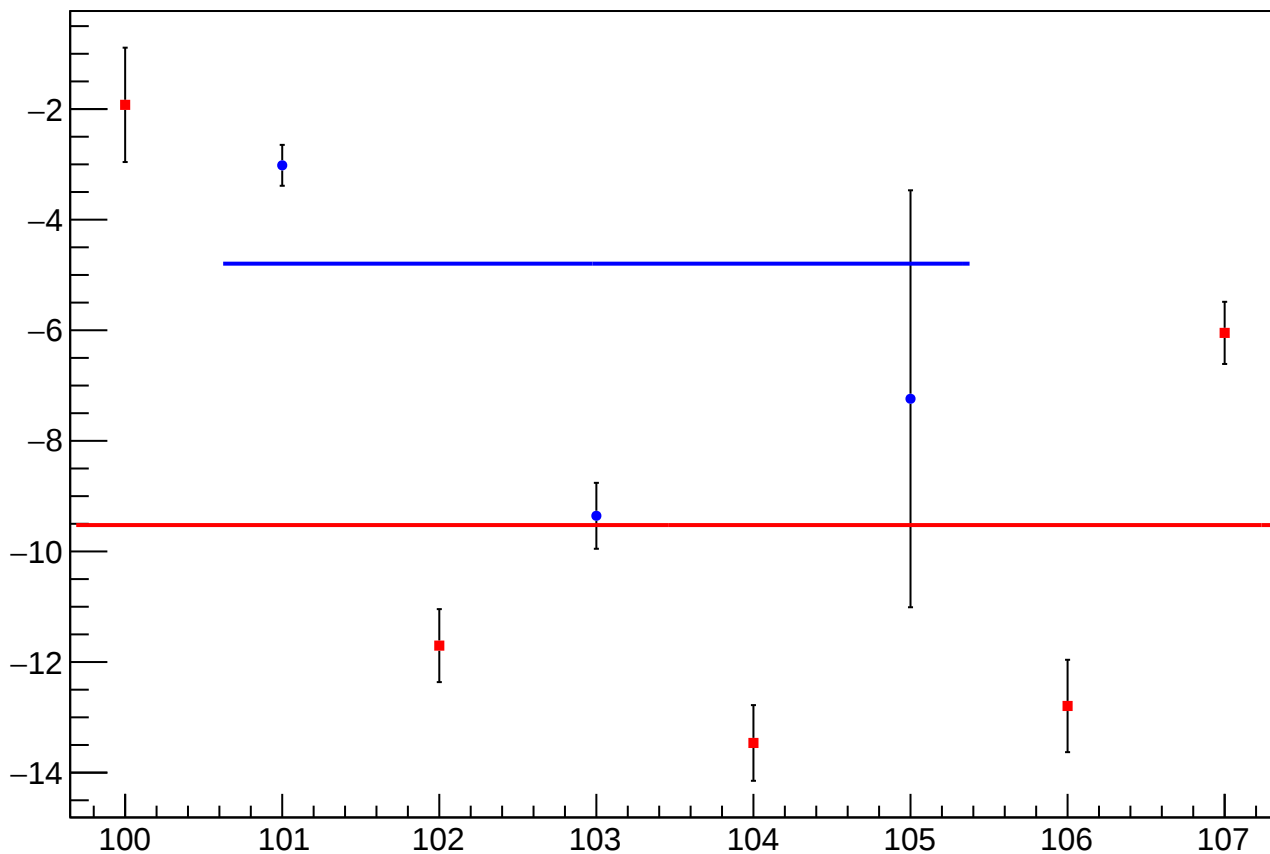
Right Out:  $-0.783 \pm 0.165$   $\chi^2/\text{NDF}: 341.0/4$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$-0.952 \pm 0.174$   $\chi^2/\text{NDF}: 0.5/2$

$-0.783 \pm 0.165$   $\chi^2/\text{NDF}: 341.0/4$

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs slug



Right In: -4.796+/-0.313  $\chi^2/\text{NDF}$ : 82.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

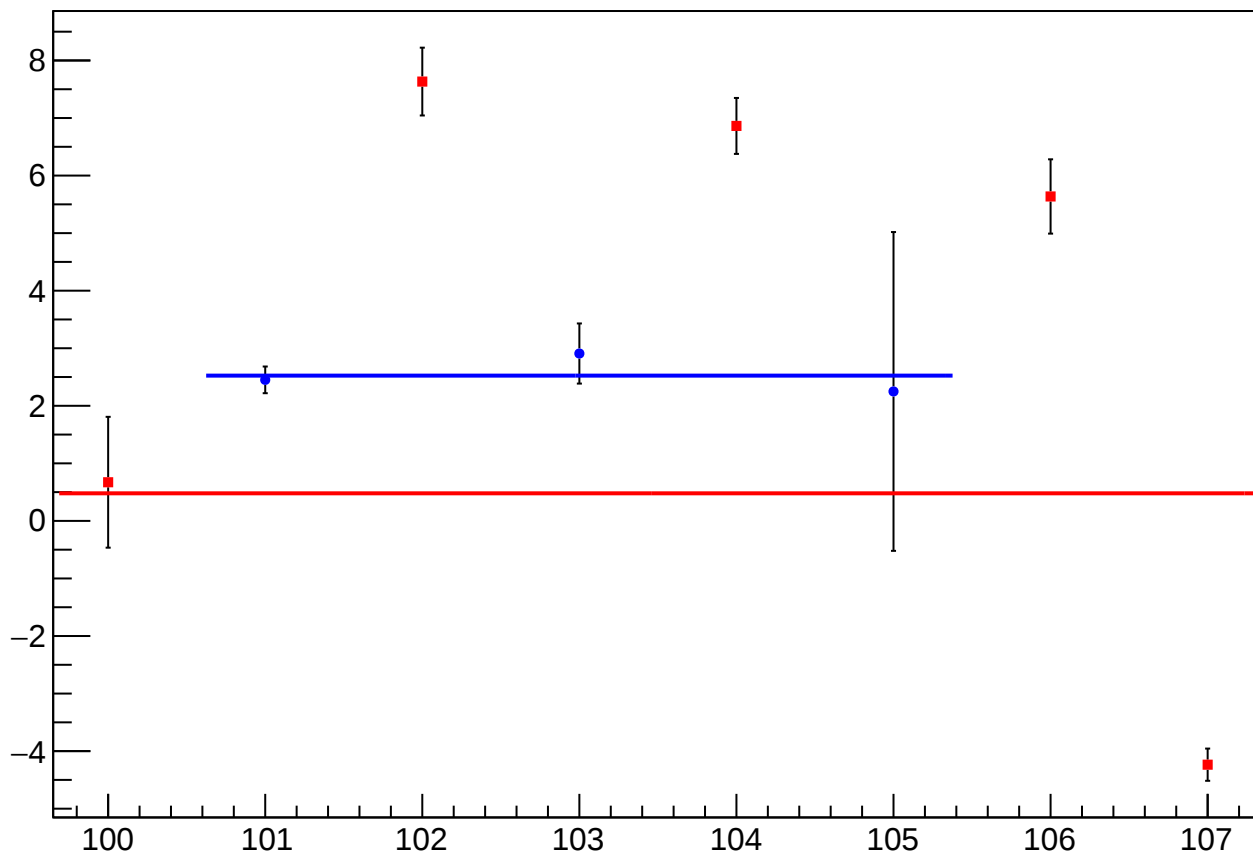
Right Out: -9.523+/-0.317  $\chi^2/\text{NDF}$ : 151.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.796+/-0.313  $\chi^2/\text{NDF}$ : 82.0/2

-9.523+/-0.317  $\chi^2/\text{NDF}$ : 151.6/4

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs slug



Right In: 2.524 $\pm$ 0.211  $\chi^2/\text{NDF}$ : 0.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

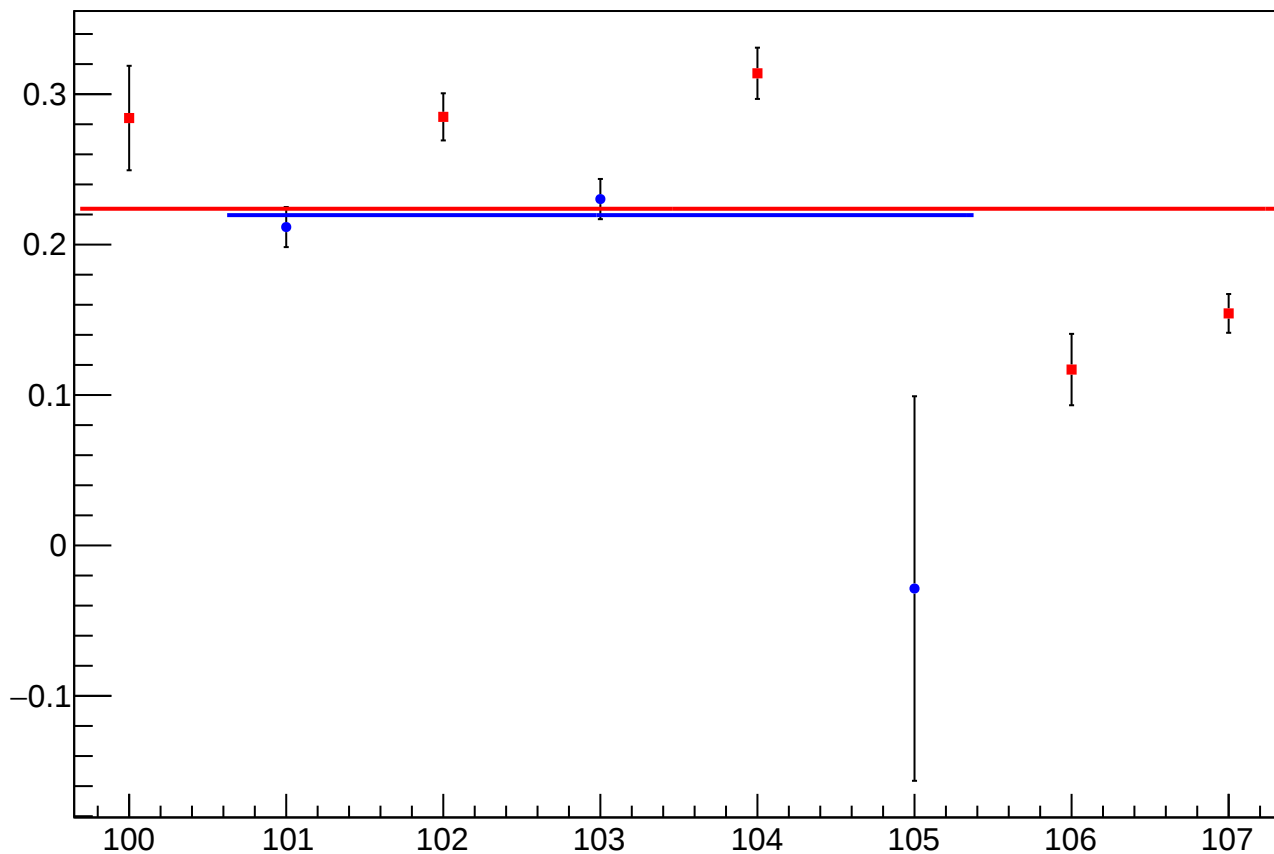
Right Out: 0.479 $\pm$ 0.208  $\chi^2/\text{NDF}$ : 667.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.524 $\pm$ 0.211  $\chi^2/\text{NDF}$ : 0.7/2

0.479 $\pm$ 0.208  $\chi^2/\text{NDF}$ : 667.5/4

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs slug



Right In: 0.220 $\pm$ 0.009  $\chi^2$ /NDF: 4.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

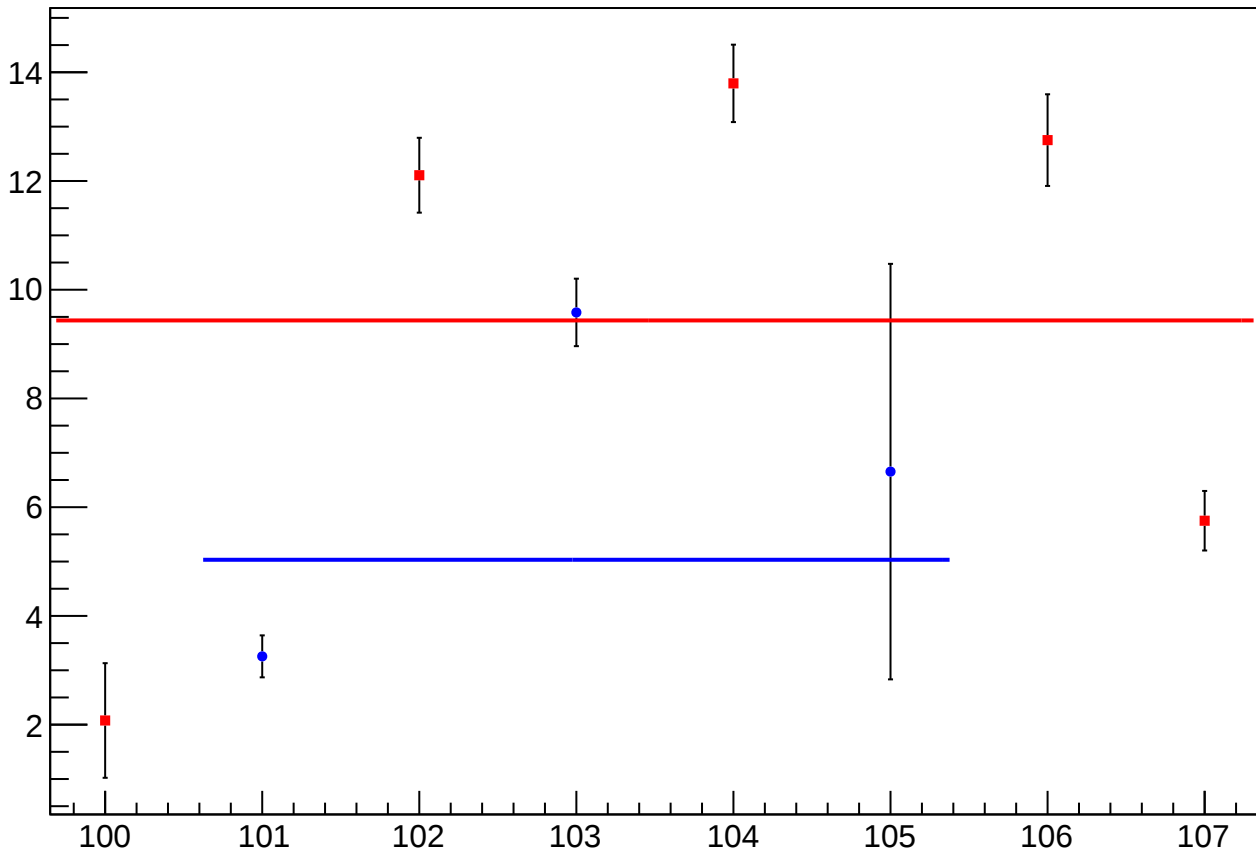
Right Out: 0.224 $\pm$ 0.008  $\chi^2$ /NDF: 95.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.220 $\pm$ 0.009  $\chi^2$ /NDF: 4.8/2

0.224 $\pm$ 0.008  $\chi^2$ /NDF: 95.6/4

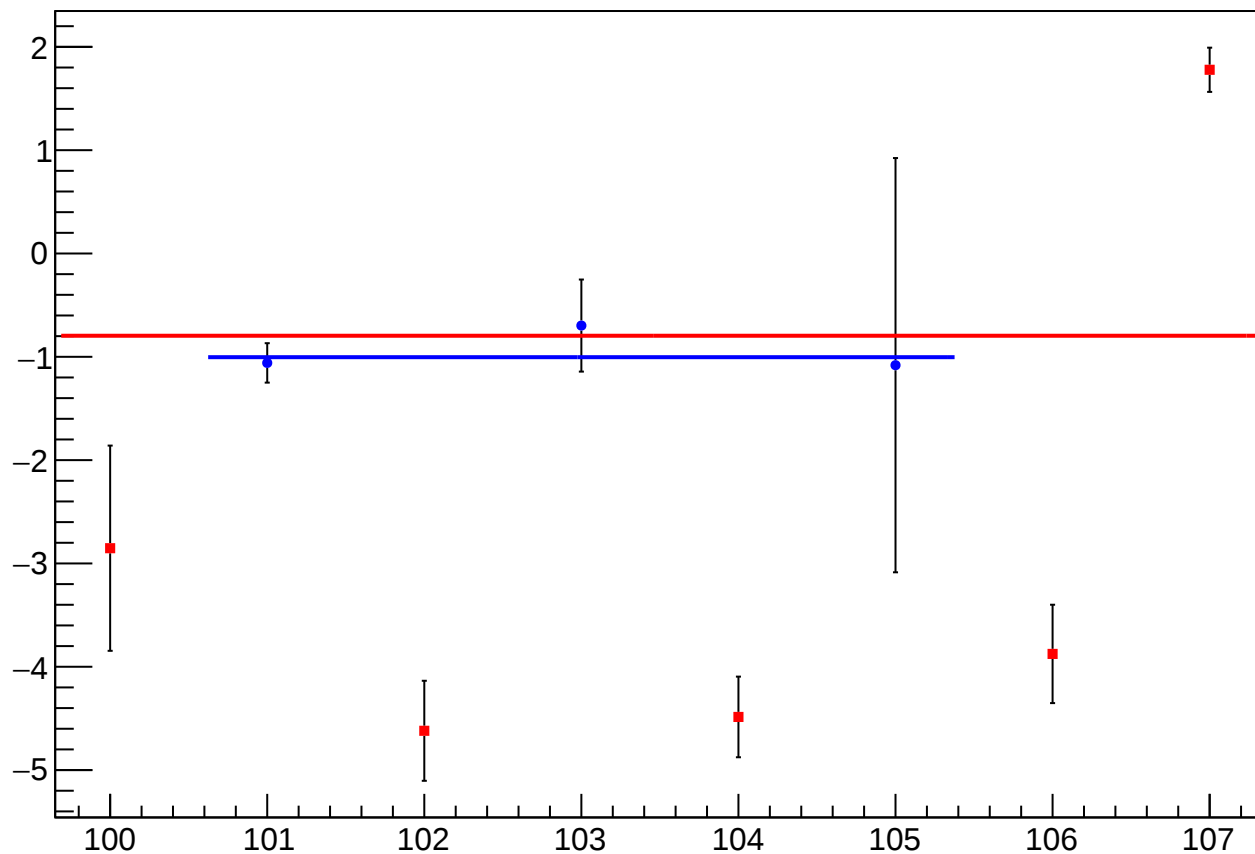
reg\_asym\_bcm\_an\_us\_diff\_bpm4aX\_slope vs slug



Right In: 5.033+/-0.327  $\chi^2/\text{NDF}$ : 75.1/2  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 9.435+/-0.321  $\chi^2/\text{NDF}$ : 162.0/4  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.033+/-0.327  $\chi^2/\text{NDF}$ : 75.1/2  
 9.435+/-0.321  $\chi^2/\text{NDF}$ : 162.0/4

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs slug



Right In: -1.004 $\pm$ 0.175  $\chi^2$ /NDF: 0.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

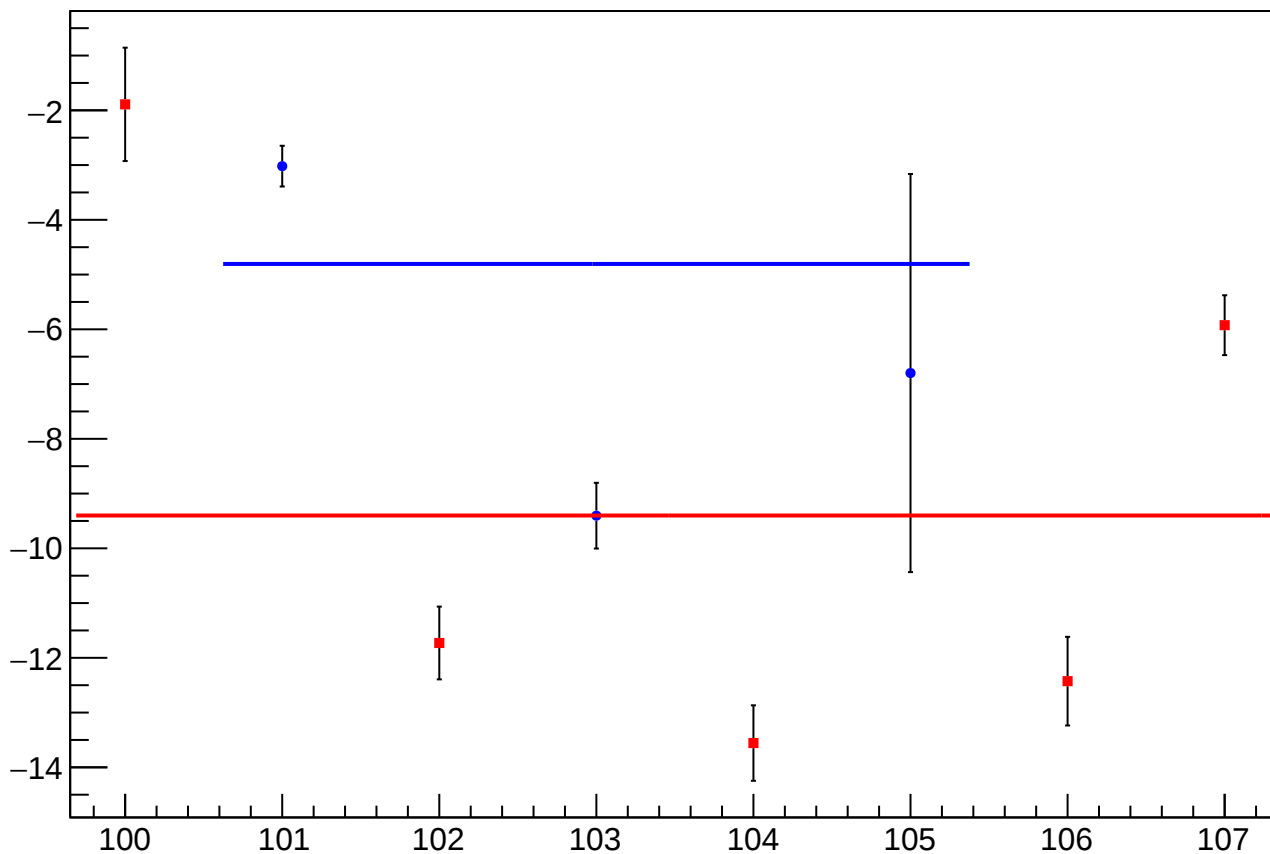
Right Out: -0.796 $\pm$ 0.162  $\chi^2$ /NDF: 342.6/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-1.004 $\pm$ 0.175  $\chi^2$ /NDF: 0.6/2

-0.796 $\pm$ 0.162  $\chi^2$ /NDF: 342.6/4

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs slug



Right In: -4.806+/-0.315  $\chi^2/\text{NDF}$ : 82.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

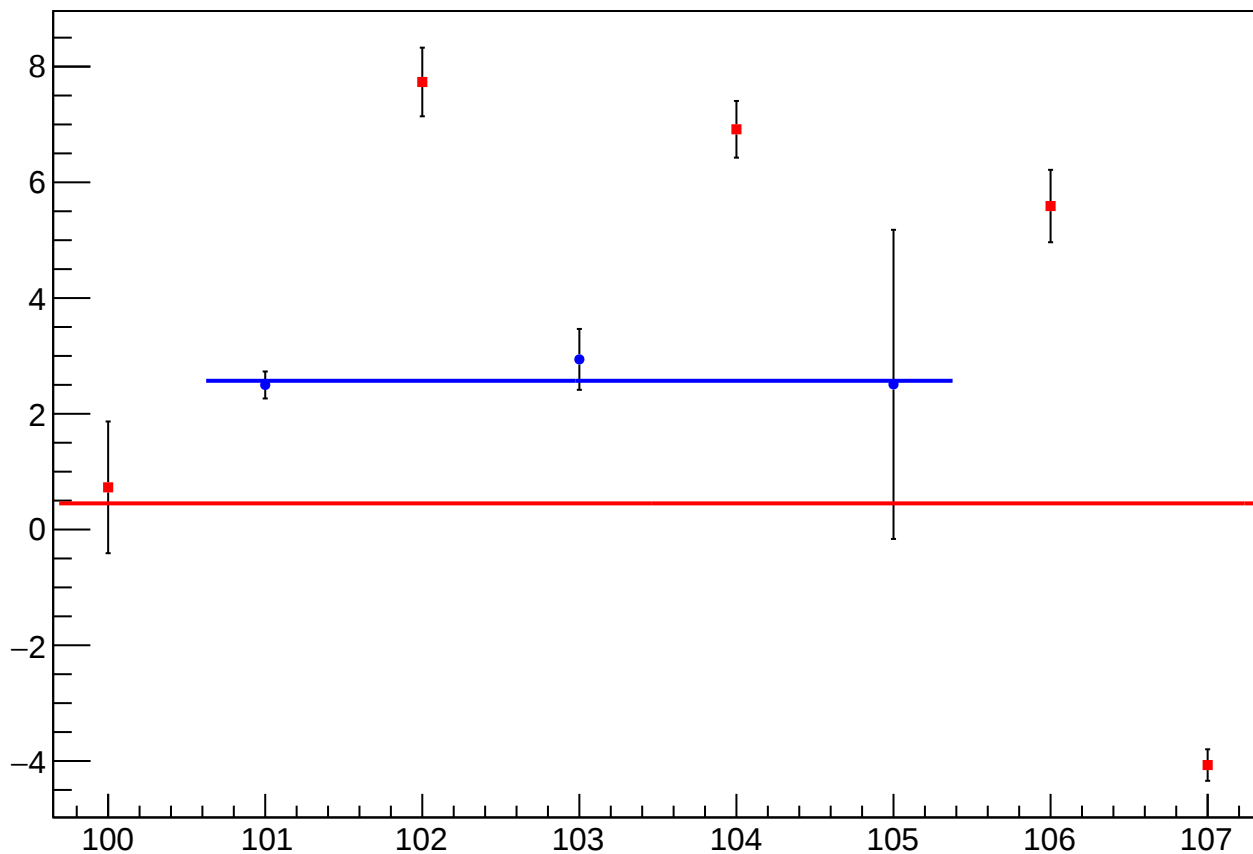
Right Out: -9.401+/-0.314  $\chi^2/\text{NDF}$ : 155.6/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.806+/-0.315  $\chi^2/\text{NDF}$ : 82.0/2

-9.401+/-0.314  $\chi^2/\text{NDF}$ : 155.6/4

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs slug



Right In: 2.570 $\pm$ 0.213  $\chi^2$ /NDF: 0.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

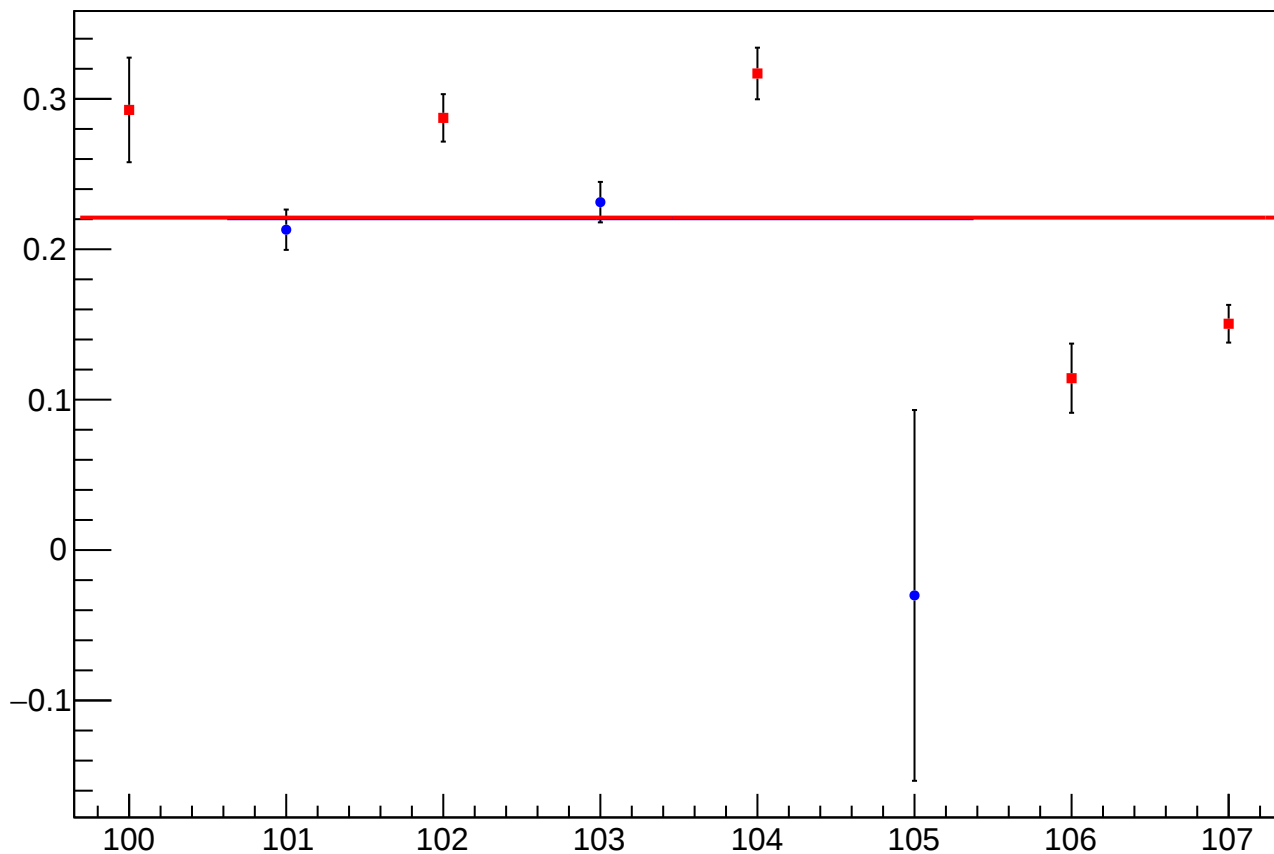
Right Out: 0.452 $\pm$ 0.205  $\chi^2$ /NDF: 668.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2.570 $\pm$ 0.213  $\chi^2$ /NDF: 0.6/2

0.452 $\pm$ 0.205  $\chi^2$ /NDF: 668.2/4

reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs slug



Right In: 0.221+/-0.009  $\chi^2/\text{NDF}$ : 5.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

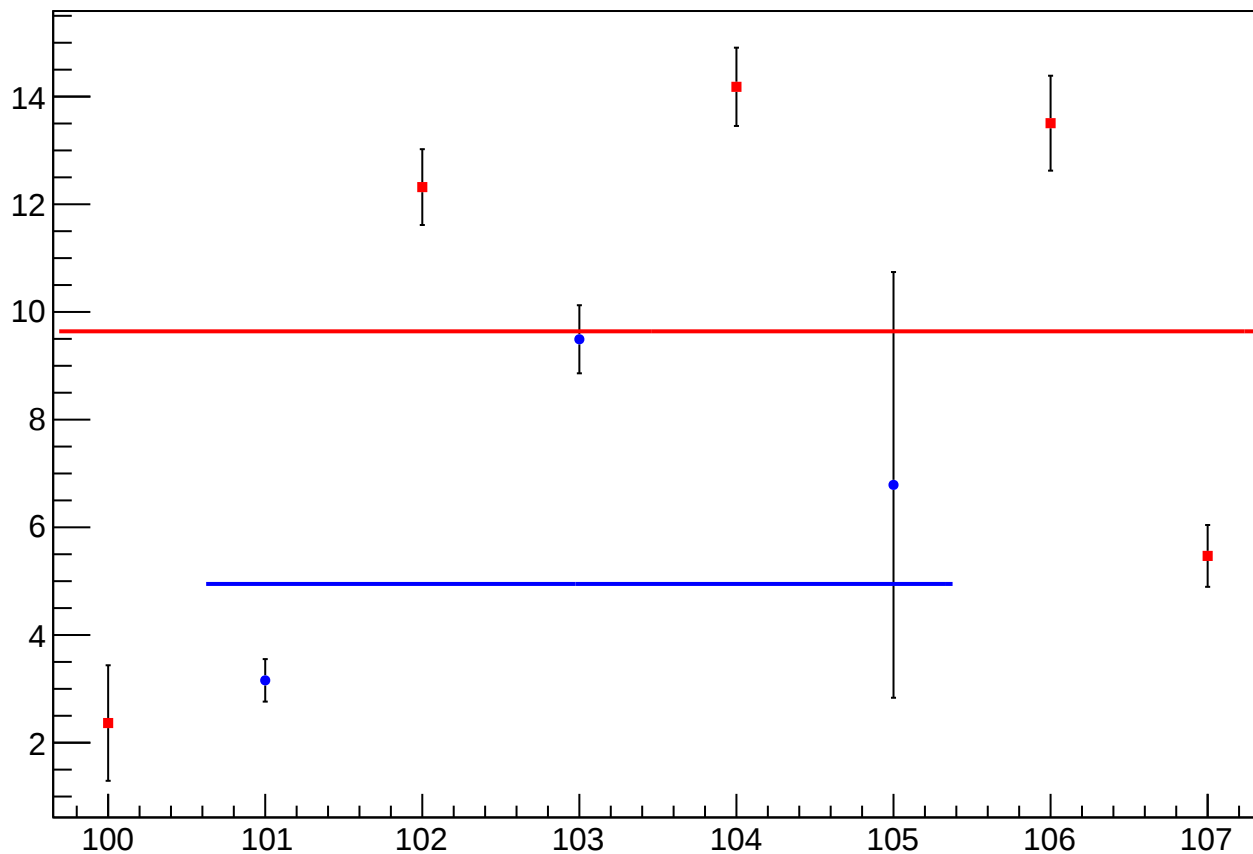
Right Out: 0.221+/-0.008  $\chi^2/\text{NDF}$ : 106.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.221+/-0.009  $\chi^2/\text{NDF}$ : 5.1/2

0.221+/-0.008  $\chi^2/\text{NDF}$ : 106.3/4

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aX\_slope vs slug



Right In: 4.949 $\pm$ 0.334  $\chi^2$ /NDF: 72.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

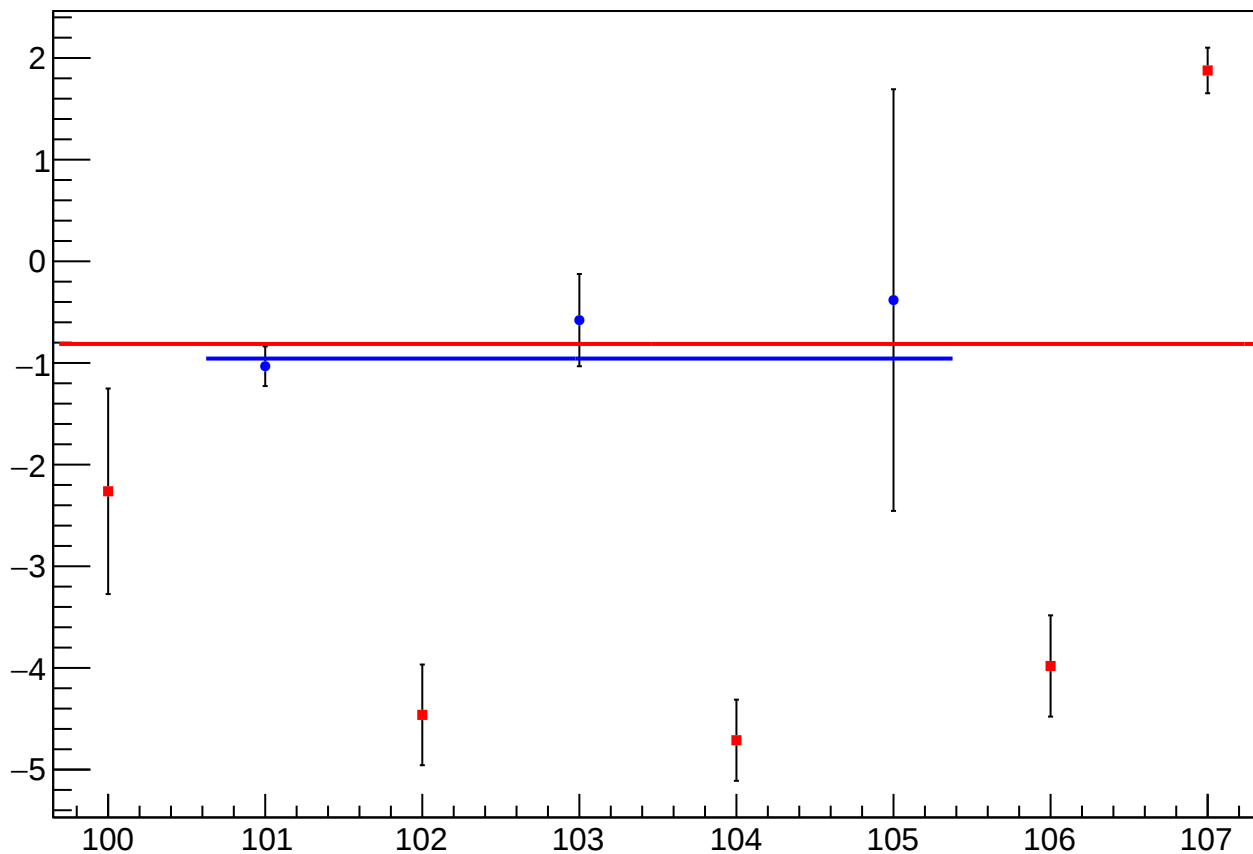
Right Out: 9.640 $\pm$ 0.332  $\chi^2$ /NDF: 171.5/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

4.949 $\pm$ 0.334  $\chi^2$ /NDF: 72.5/2

9.640 $\pm$ 0.332  $\chi^2$ /NDF: 171.5/4

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs slug



Right In: -0.957+/-0.179  $\chi^2/\text{NDF}$ : 0.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

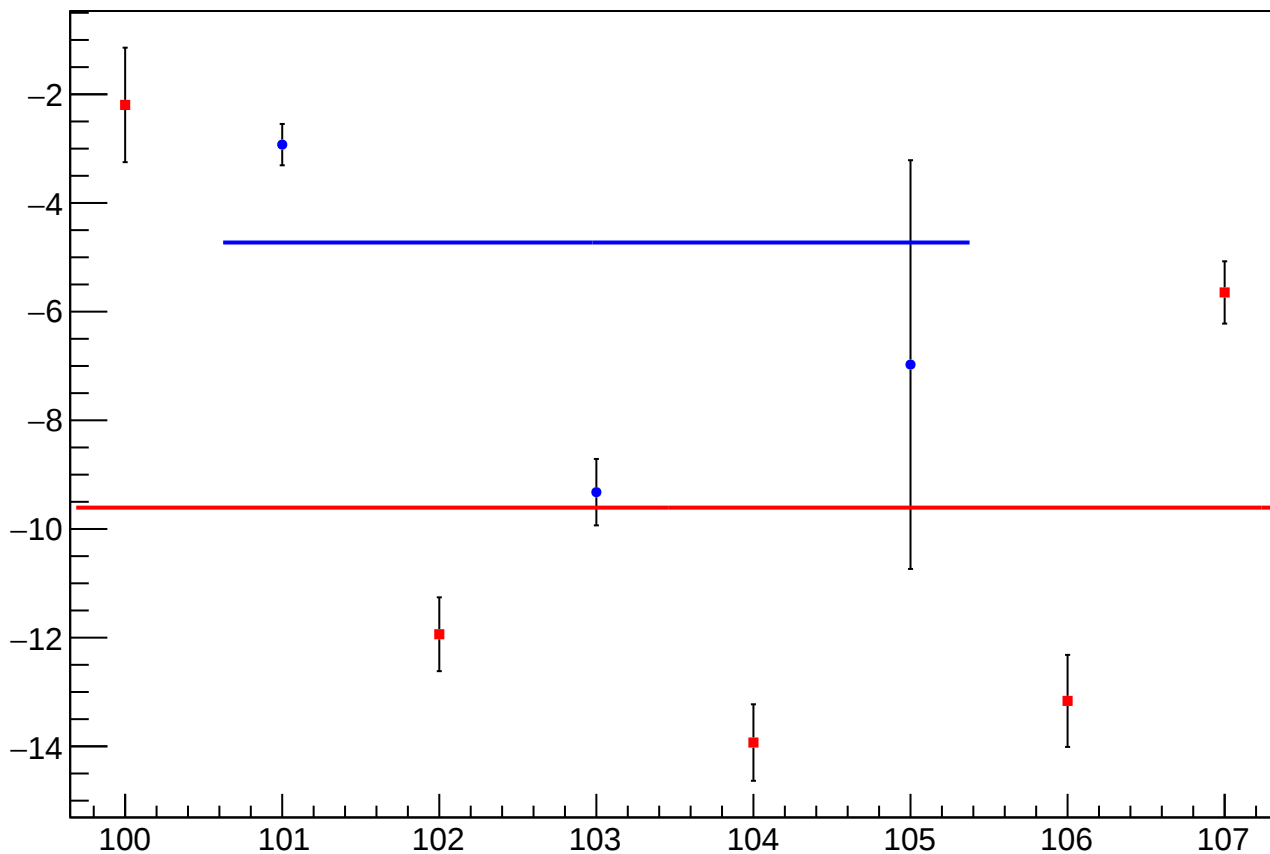
Right Out: -0.813+/-0.168  $\chi^2/\text{NDF}$ : 336.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.957+/-0.179  $\chi^2/\text{NDF}$ : 0.9/2

-0.813+/-0.168  $\chi^2/\text{NDF}$ : 336.2/4

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs slug



Right In: -4.728+/-0.322  $\chi^2/\text{NDF}$ : 79.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

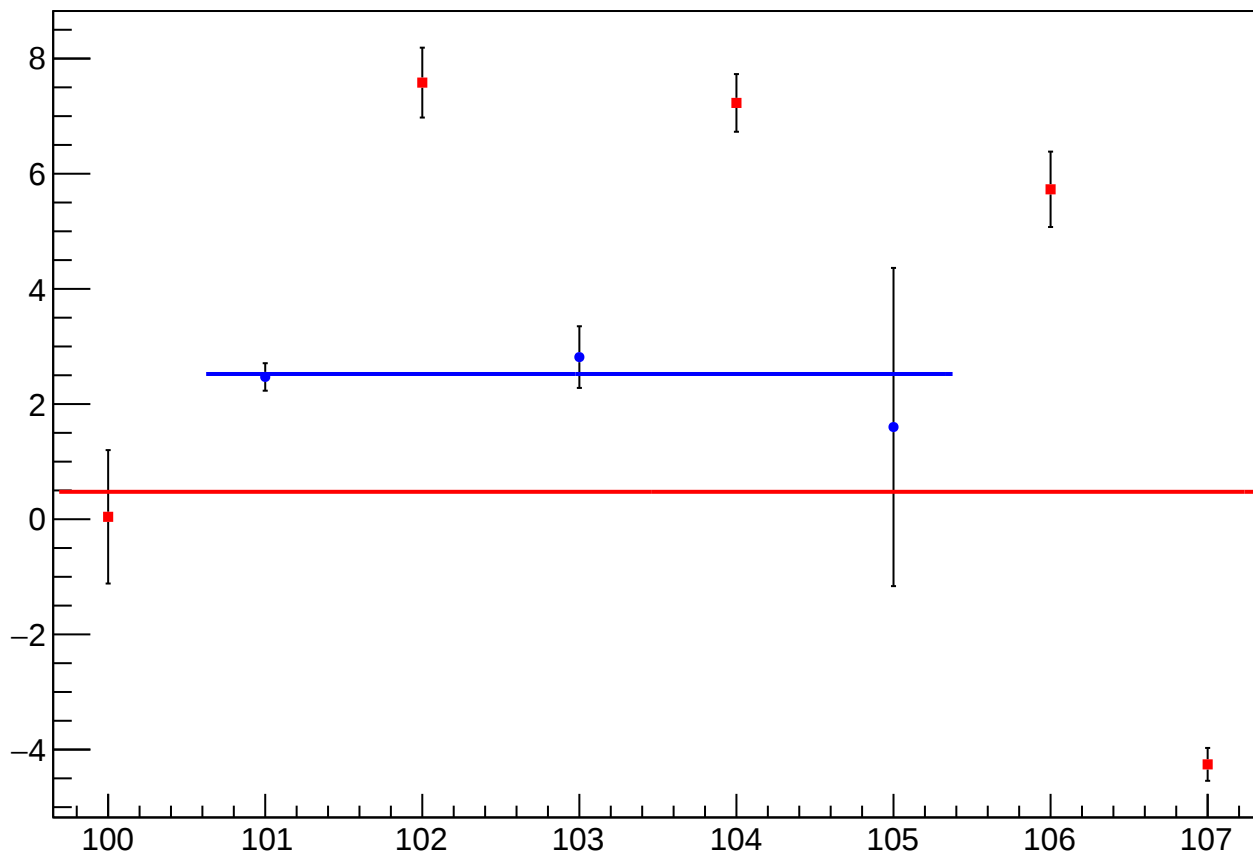
Right Out: -9.607+/-0.324  $\chi^2/\text{NDF}$ : 164.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.728+/-0.322  $\chi^2/\text{NDF}$ : 79.3/2

-9.607+/-0.324  $\chi^2/\text{NDF}$ : 164.3/4

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs slug



Right In: 2.522 $\pm$ 0.217  $\chi^2$ /NDF: 0.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

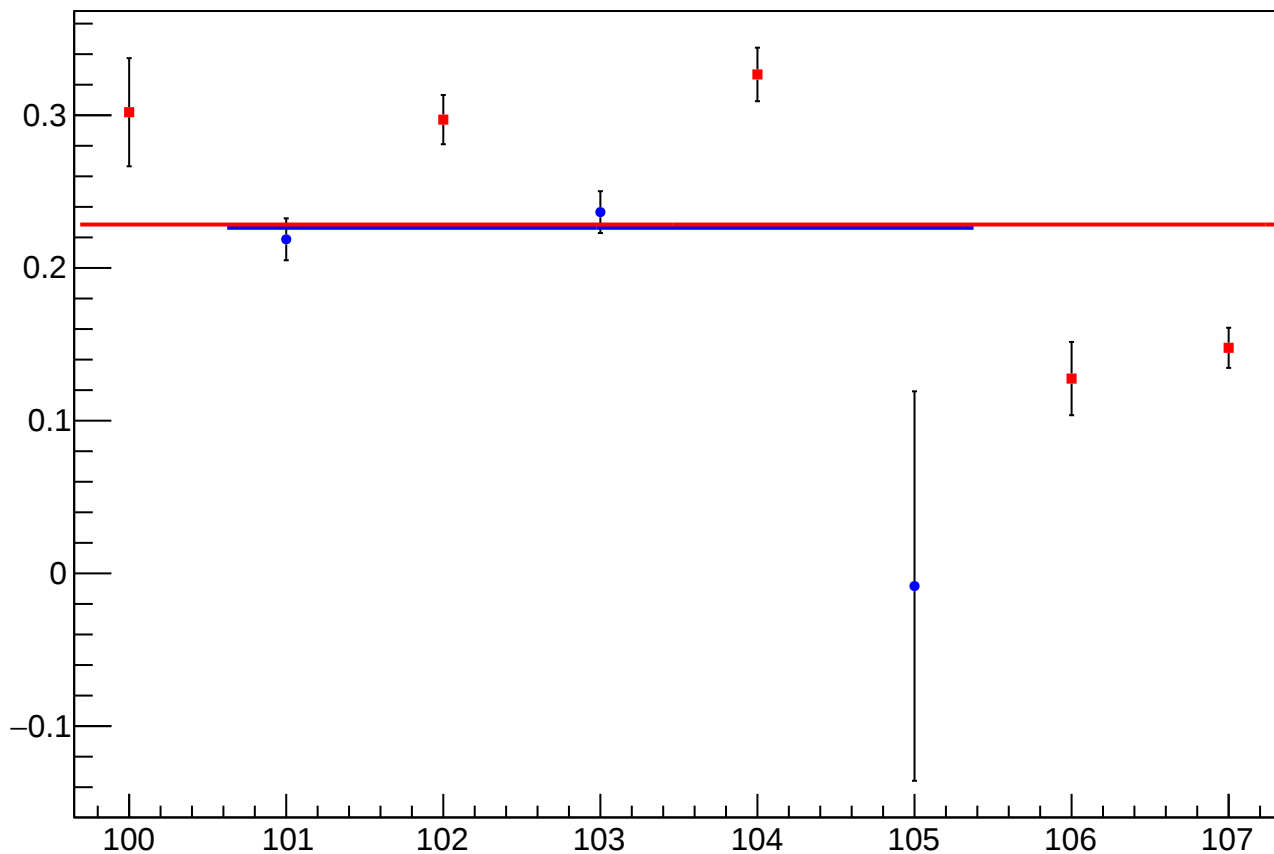
Right Out: 0.476 $\pm$ 0.213  $\chi^2$ /NDF: 658.9/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

2.522 $\pm$ 0.217  $\chi^2$ /NDF: 0.5/2

0.476 $\pm$ 0.213  $\chi^2$ /NDF: 658.9/4

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs slug



Right In: 0.226 $\pm$ 0.010  $\chi^2$ /NDF: 4.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

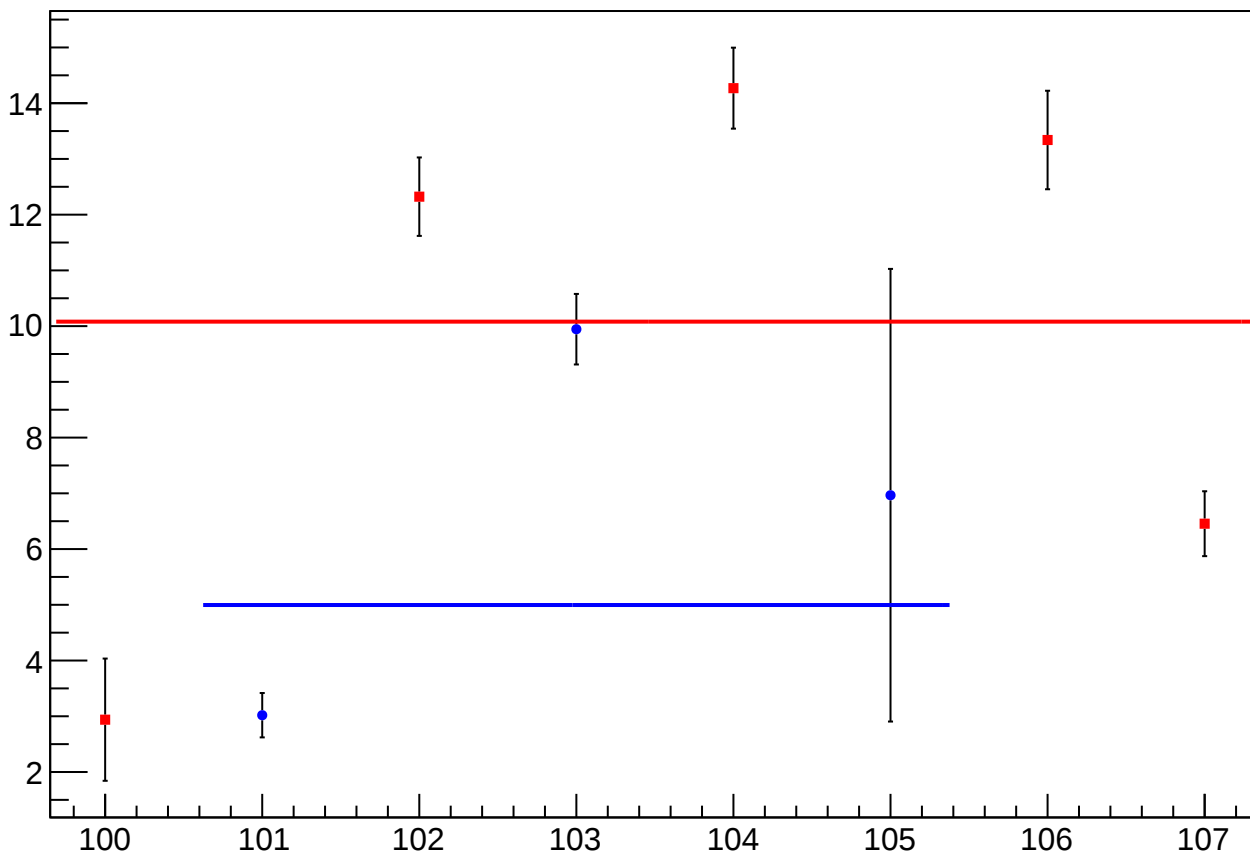
Right Out: 0.228 $\pm$ 0.008  $\chi^2$ /NDF: 109.3/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.226 $\pm$ 0.010  $\chi^2$ /NDF: 4.2/2

0.228 $\pm$ 0.008  $\chi^2$ /NDF: 109.3/4

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aX\_slope vs slug



Right In: 4.996+/-0.336  $\chi^2/\text{NDF}$ : 86.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

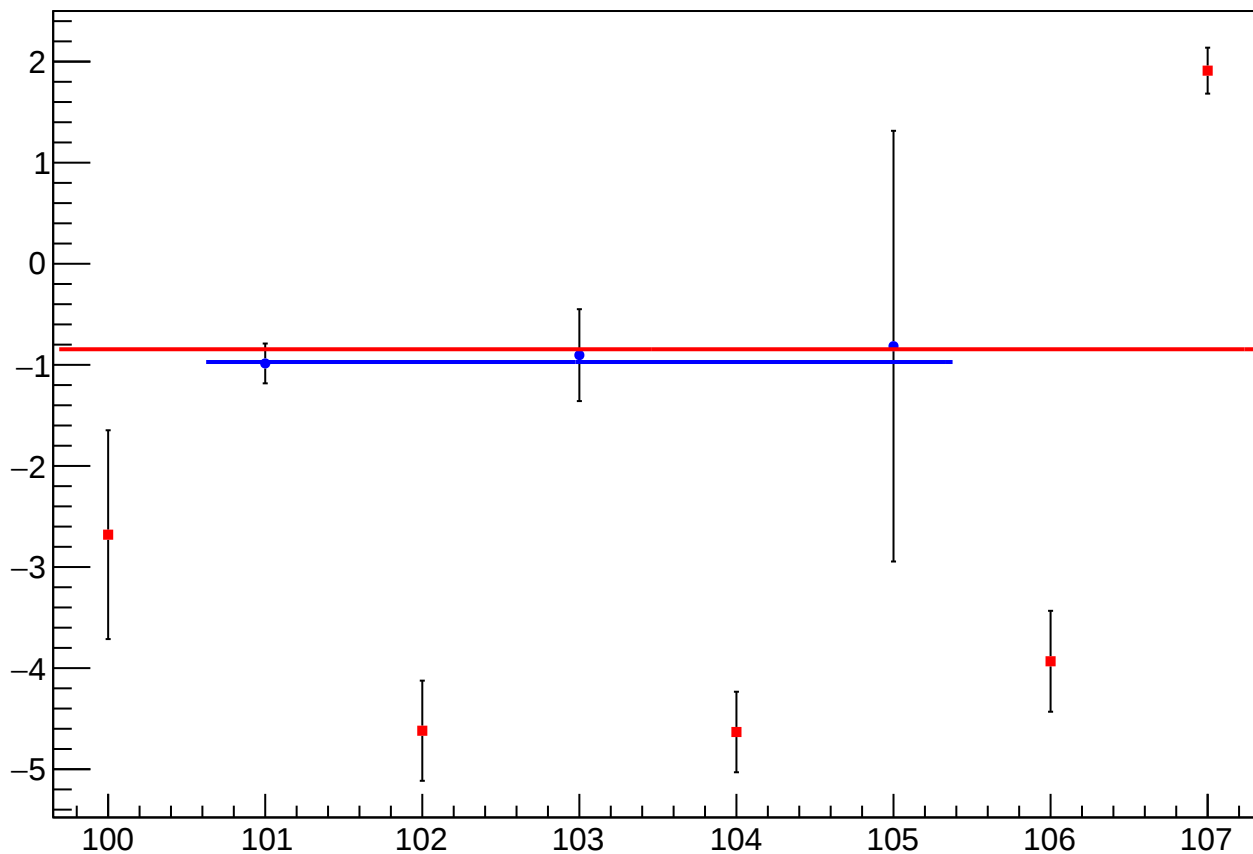
Right Out: 10.081+/-0.334  $\chi^2/\text{NDF}$ : 138.2/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.996+/-0.336  $\chi^2/\text{NDF}$ : 86.0/2

10.081+/-0.334  $\chi^2/\text{NDF}$ : 138.2/4

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs slug



Right In: -0.972+/-0.180  $\chi^2/\text{NDF}$ : 0.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

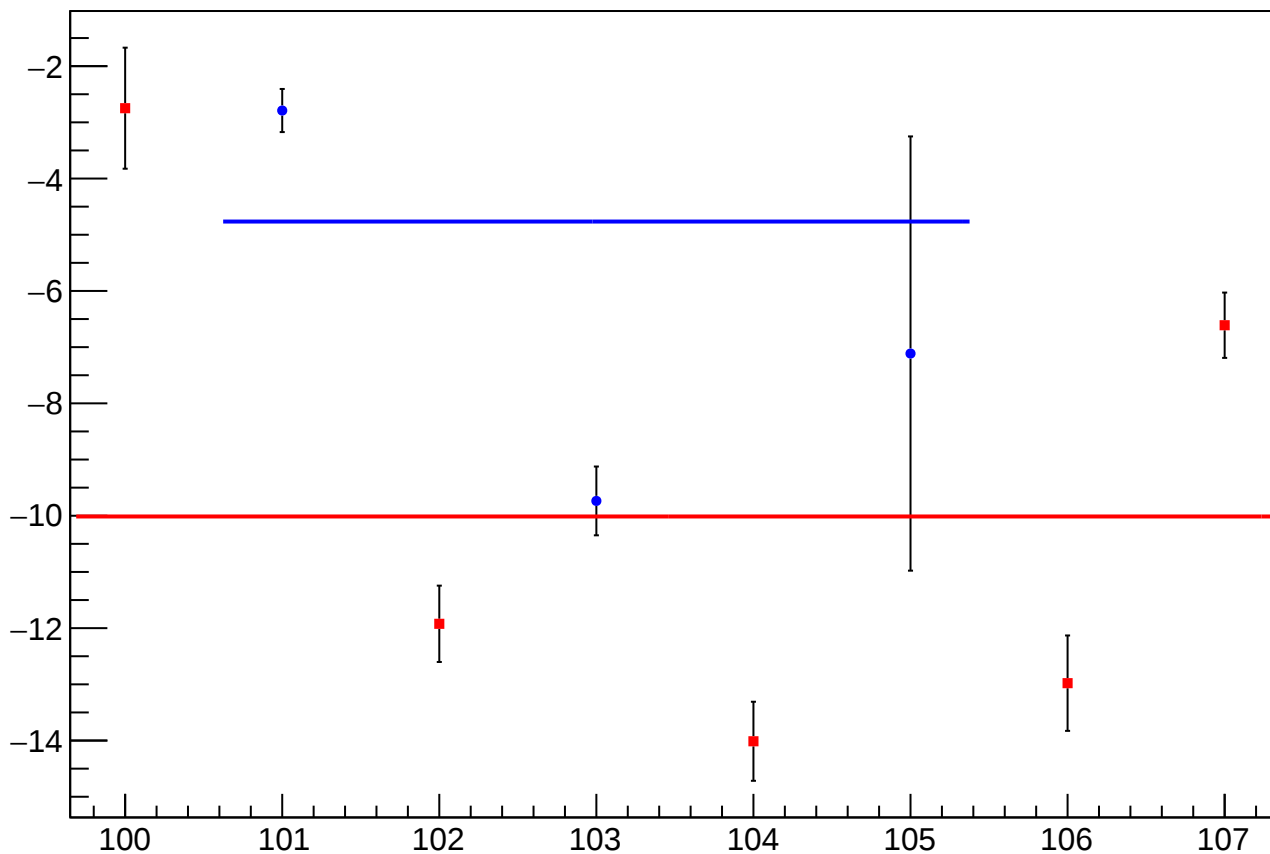
Right Out: -0.846+/-0.170  $\chi^2/\text{NDF}$ : 336.8/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.972+/-0.180  $\chi^2/\text{NDF}$ : 0.0/2

-0.846+/-0.170  $\chi^2/\text{NDF}$ : 336.8/4

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs slug



Right In: -4.765+/-0.324  $\chi^2/\text{NDF}$ : 92.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

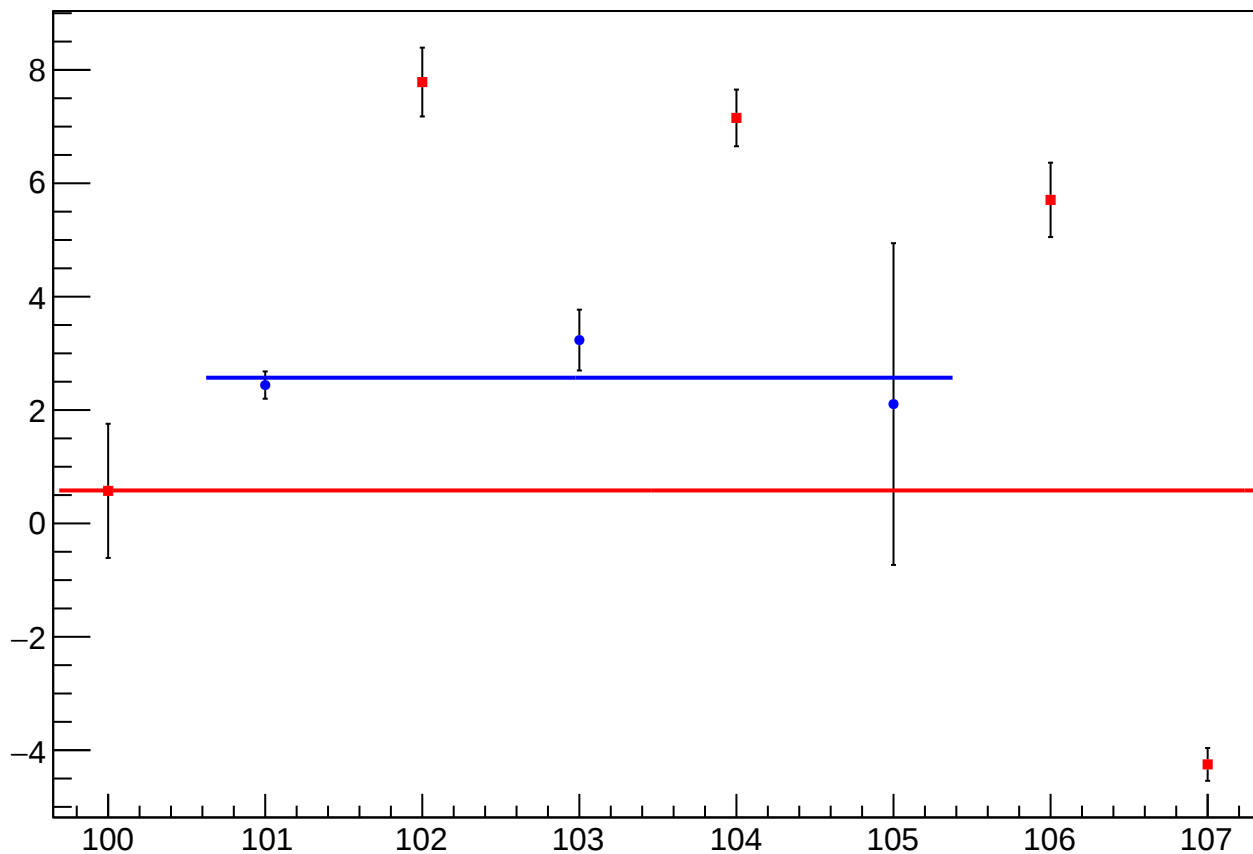
Right Out: -10.013+/-0.326  $\chi^2/\text{NDF}$ : 132.3/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4.765+/-0.324  $\chi^2/\text{NDF}$ : 92.8/2

-10.013+/-0.326  $\chi^2/\text{NDF}$ : 132.3/4

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs slug



Right In: 2.571+/-0.219  $\chi^2/\text{NDF}$ : 1.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

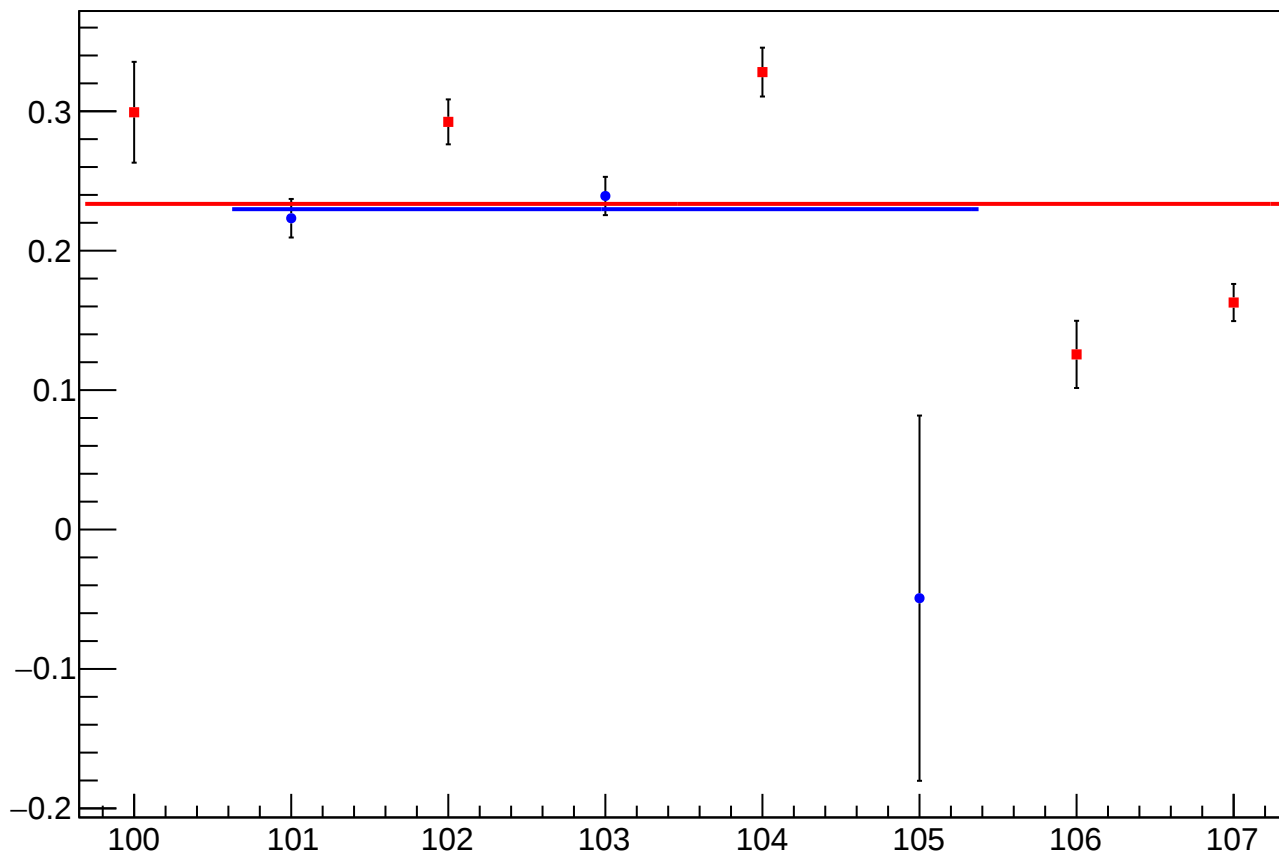
Right Out: 0.582+/-0.215  $\chi^2/\text{NDF}$ : 654.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.571+/-0.219  $\chi^2/\text{NDF}$ : 1.8/2

0.582+/-0.215  $\chi^2/\text{NDF}$ : 654.0/4

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs slug



Right In: 0.230 $\pm$ 0.010  $\chi^2$ /NDF: 5.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.234 $\pm$ 0.008  $\chi^2$ /NDF: 94.0/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.230 $\pm$ 0.010  $\chi^2$ /NDF: 5.2/2

0.234 $\pm$ 0.008  $\chi^2$ /NDF: 94.0/4