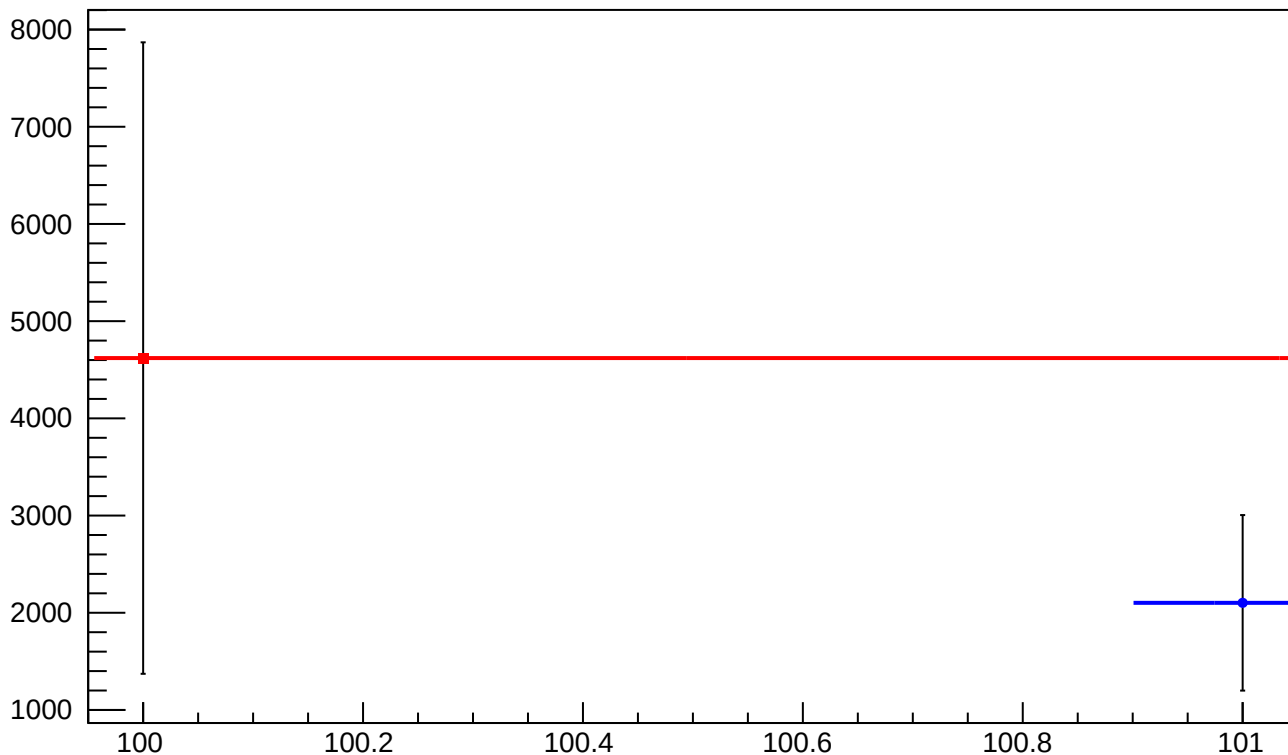


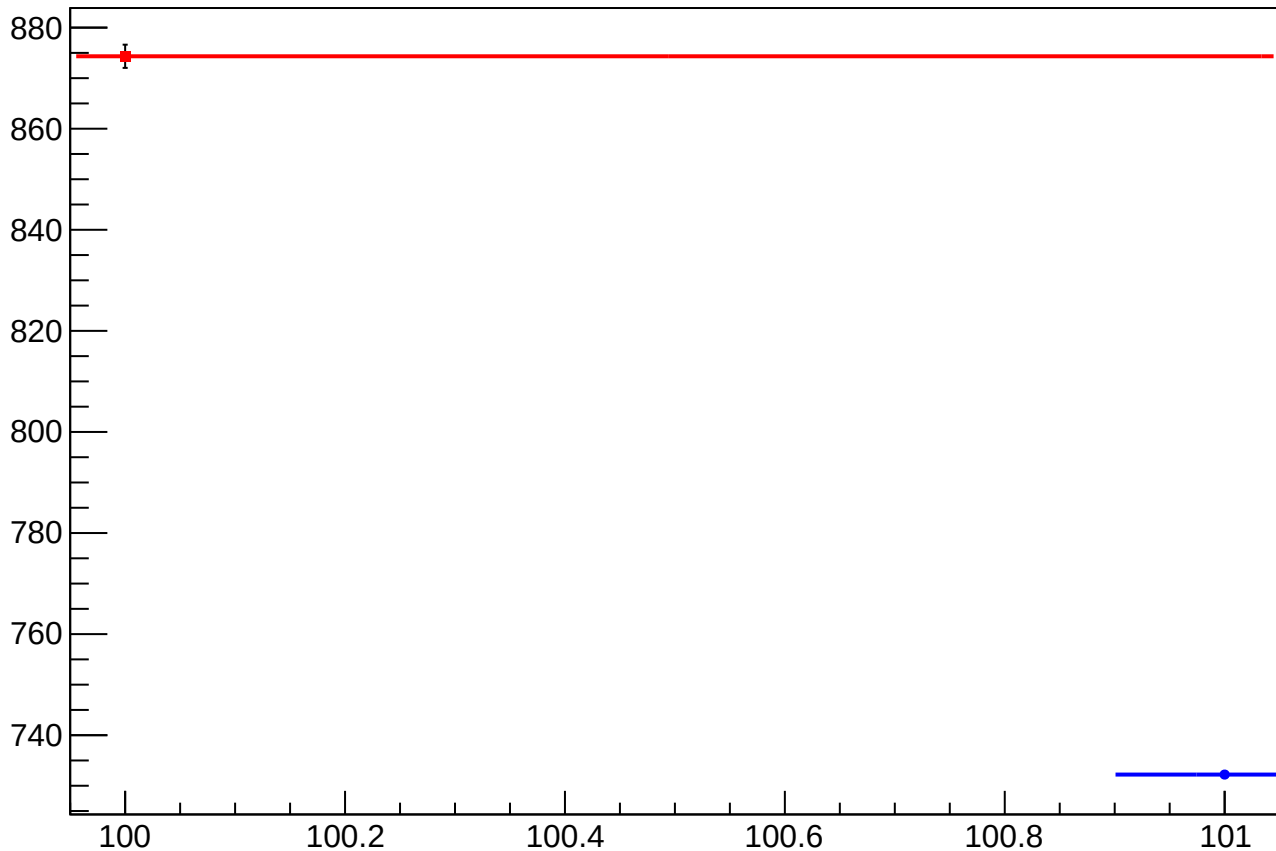
# reg\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2102.156+/-902.970  $\chi^2/\text{NDF}: 0.0/0$   
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}: 0.0/0$   
Right Out: 4620.287+/-3248.303  $\chi^2/\text{NDF}: 0.0/0$   
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}: 0.0/0$

Left: 0.000+/-0.000  $\chi^2/\text{NDF}: 0.0/0$   
Right: 2282.784+/-869.982  $\chi^2/\text{NDF}: 0.6/1$   
In: 2102.156+/-902.970  $\chi^2/\text{NDF}: 0.0/0$   
Out: 0.000+/-0.000  $\chi^2/\text{NDF}: 0.0/0$   
All: 2282.784+/-869.982  $\chi^2/\text{NDF}: 0.6/1$

# reg\_asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 732.211 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

Right Out: 874.329 $\pm$ 2.297  $\chi^2$ /NDF: 0.0/0

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

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

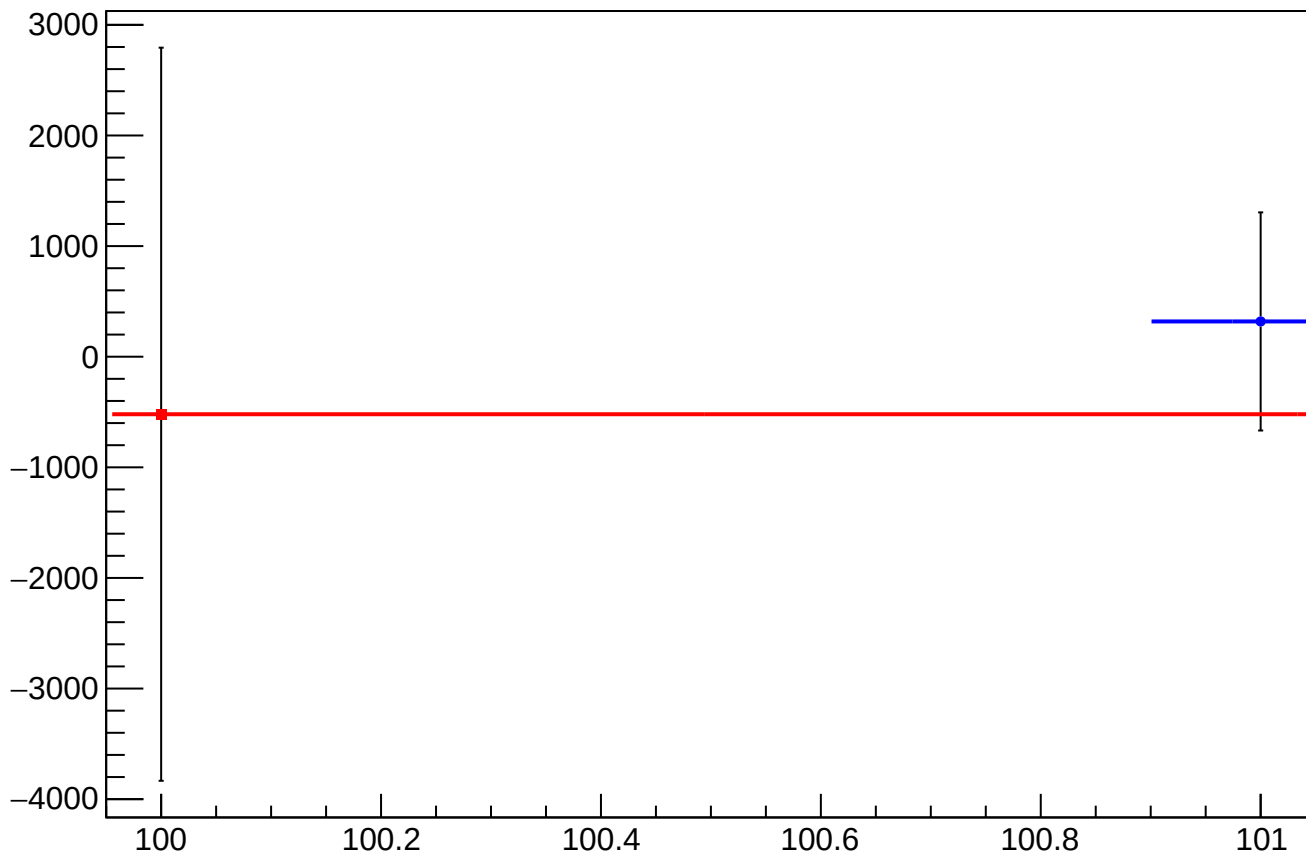
Right: 742.405 $\pm$ 0.615  $\chi^2$ /NDF: 3553.8/1

In: 732.211 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

All: 742.405 $\pm$ 0.615  $\chi^2$ /NDF: 3553.8/1

asym\_us\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 318.852+/-985.996  $\chi^2$ /NDF: 0.0/0

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

Right Out: -520.078+/-3313.879  $\chi^2$ /NDF: 0.0/0

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

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

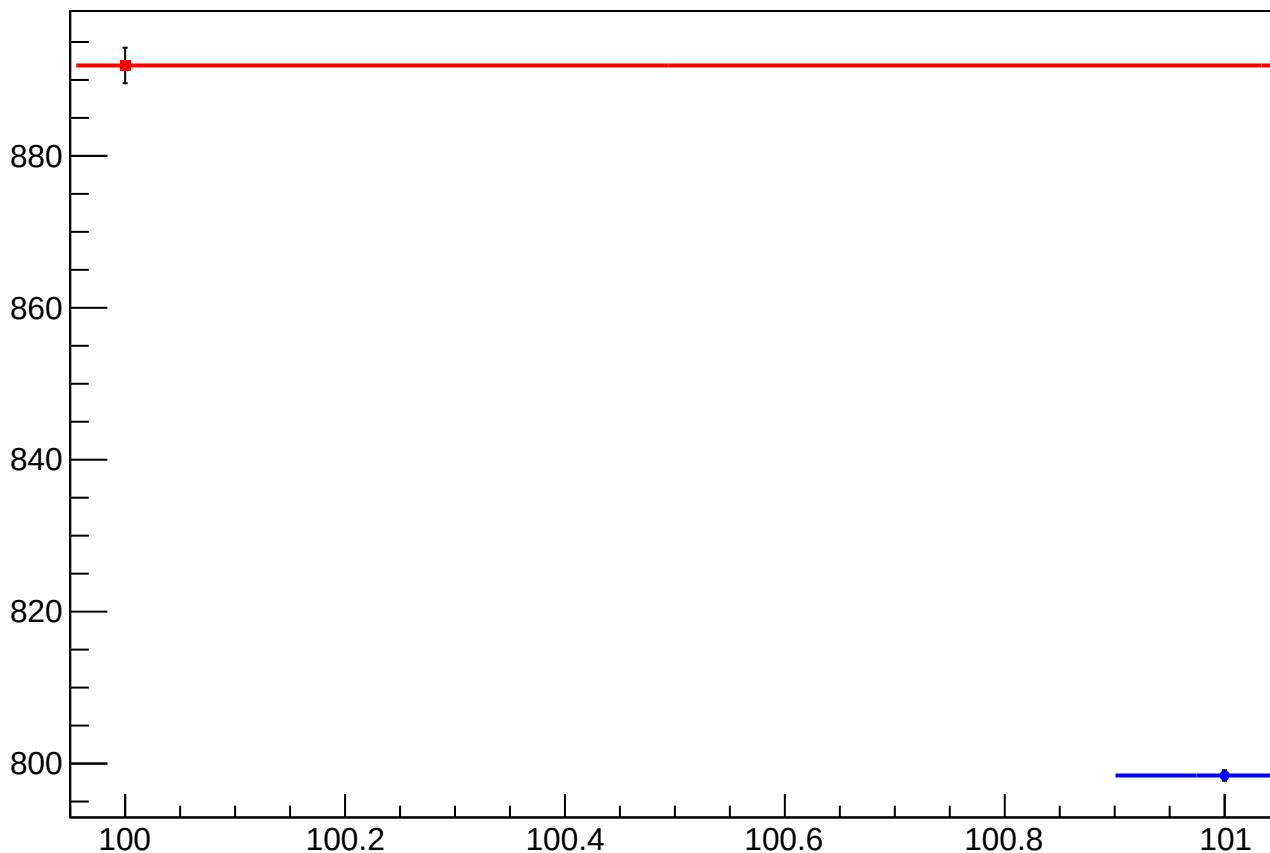
Right: 250.624+/-945.051  $\chi^2$ /NDF: 0.1/1

In: 318.852+/-985.996  $\chi^2$ /NDF:0.0/0

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

All: 250.624+/-945.051  $\chi^2$ /NDF: 0.1/1

asym\_us\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 798.426 $\pm$ 0.697  $\chi^2$ /NDF: 0.0/0

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

Right Out: 891.906 $\pm$ 2.343  $\chi^2$ /NDF: 0.0/0

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

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

Right: 806.028 $\pm$ 0.668  $\chi^2$ /NDF: 1462.0/1

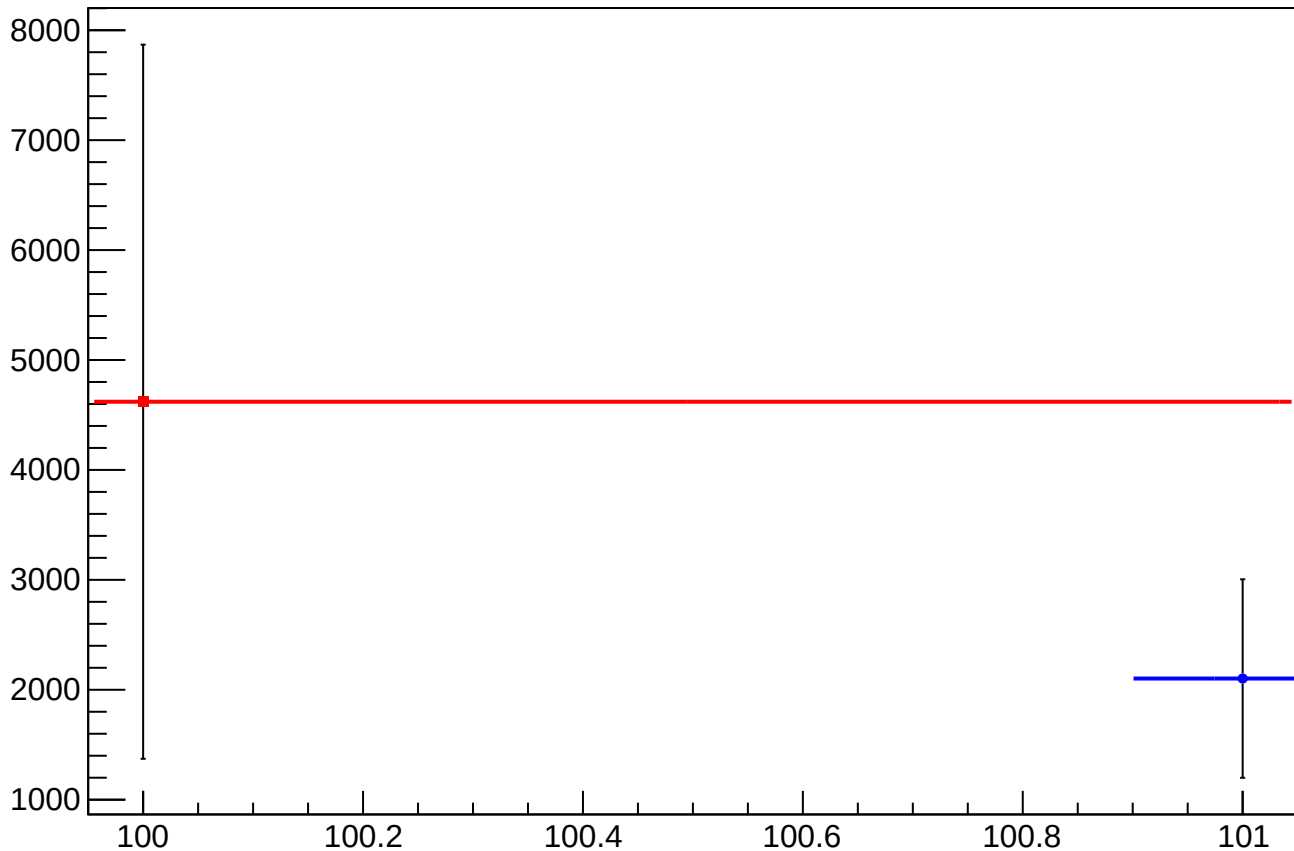
In: 798.426 $\pm$ 0.697  $\chi^2$ /NDF: 0.0/0

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

All: 806.028 $\pm$ 0.668  $\chi^2$ /NDF: 1462.0/1



cor\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2102.156+/-902.970  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4620.287+/-3248.303  $\chi^2/\text{NDF}$ : 0.0/0

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

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

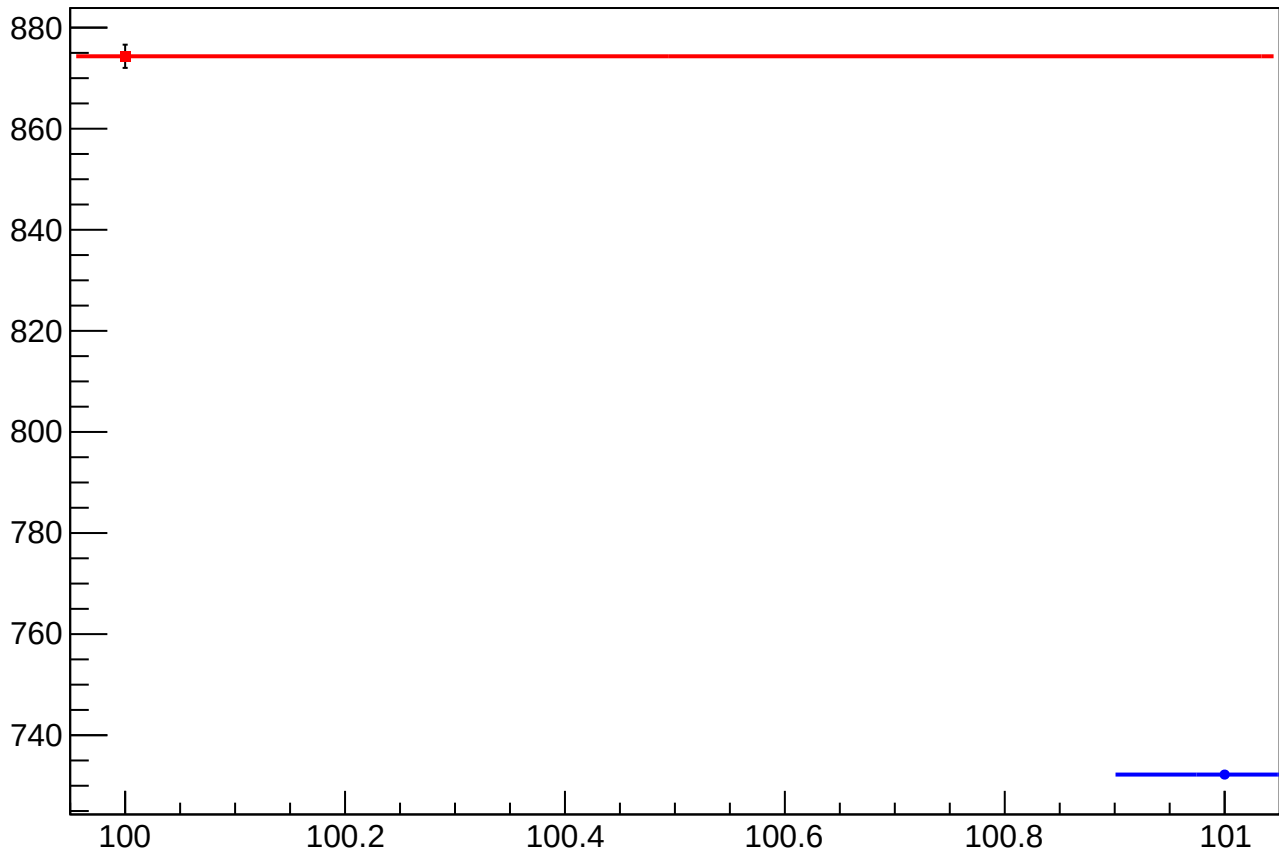
Right: 2282.784+/-869.982  $\chi^2/\text{NDF}$ : 0.6/1

In: 2102.156+/-902.970  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2282.784+/-869.982  $\chi^2/\text{NDF}$ : 0.6/1

# cor\_asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 732.211 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

Right Out: 874.329 $\pm$ 2.297  $\chi^2$ /NDF: 0.0/0

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

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

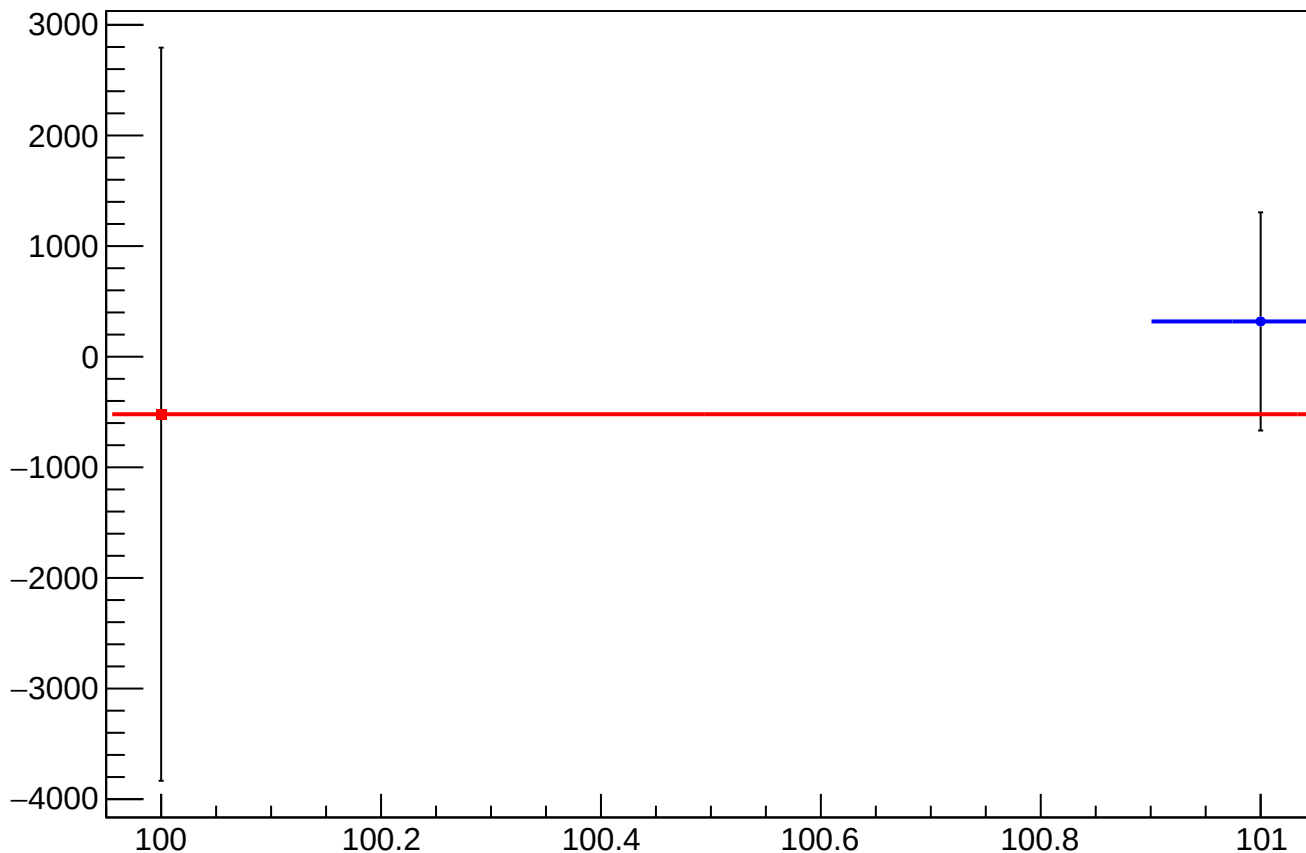
Right: 742.405 $\pm$ 0.615  $\chi^2$ /NDF: 3553.8/1

In: 732.211 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

All: 742.405 $\pm$ 0.615  $\chi^2$ /NDF: 3553.8/1

asym\_us\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 318.852+/-985.996  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -520.078+/-3313.879  $\chi^2/\text{NDF}$ : 0.0/0

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

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

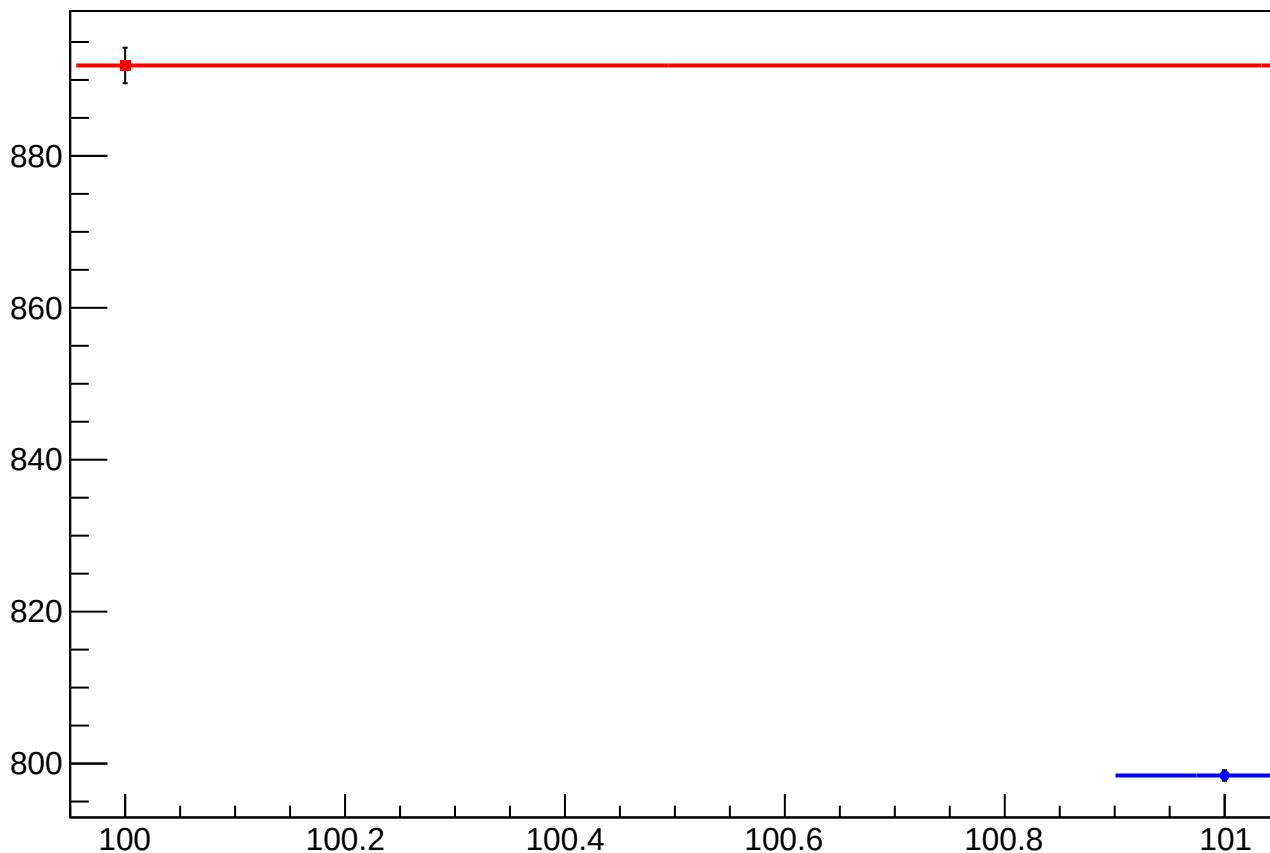
Right: 250.624+/-945.051  $\chi^2/\text{NDF}$ : 0.1/1

In: 318.852+/-985.996  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 250.624+/-945.051  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 798.426 $\pm$ 0.697  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 891.906 $\pm$ 2.343  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

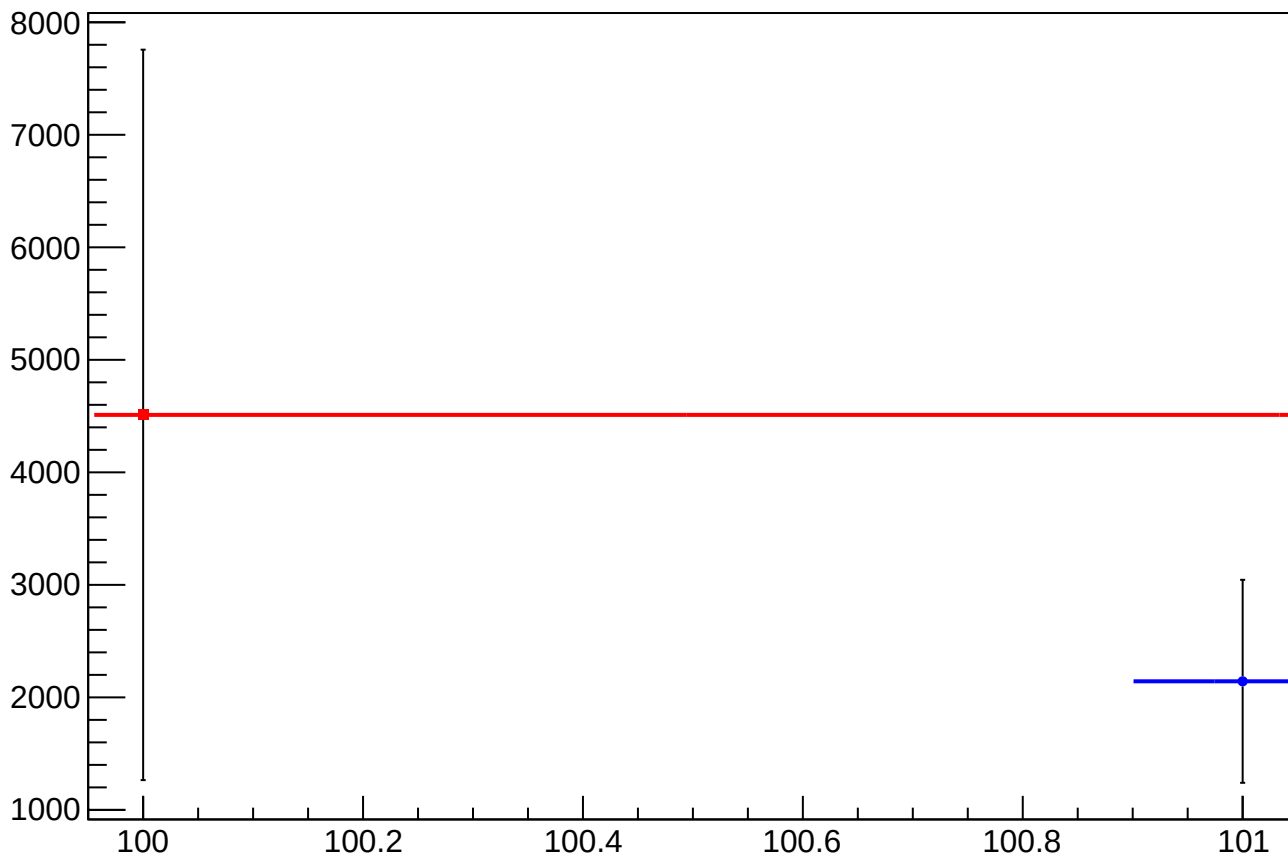
Right: 806.028 $\pm$ 0.668  $\chi^2/\text{NDF}$ : 1462.0/1

In: 798.426 $\pm$ 0.697  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 806.028 $\pm$ 0.668  $\chi^2/\text{NDF}$ : 1462.0/1

overload\_cor\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2142.856+/-902.023  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4510.652+/-3245.908  $\chi^2/\text{NDF}$ : 0.0/0

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

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

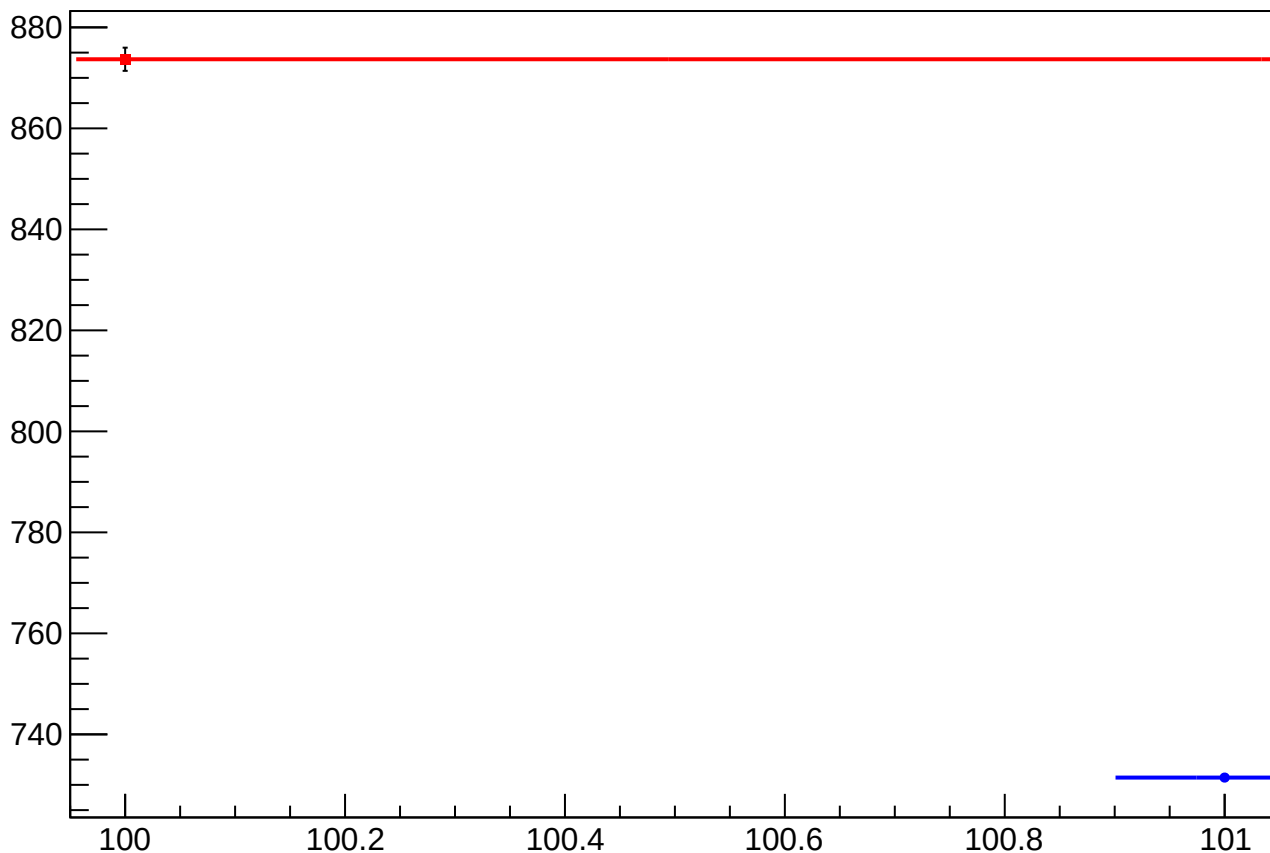
Right: 2312.602+/-869.089  $\chi^2/\text{NDF}$ : 0.5/1

In: 2142.856+/-902.023  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2312.602+/-869.089  $\chi^2/\text{NDF}$ : 0.5/1

overload\_cor\_asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 731.443 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

Right Out: 873.685 $\pm$ 2.295  $\chi^2$ /NDF: 0.0/0

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

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

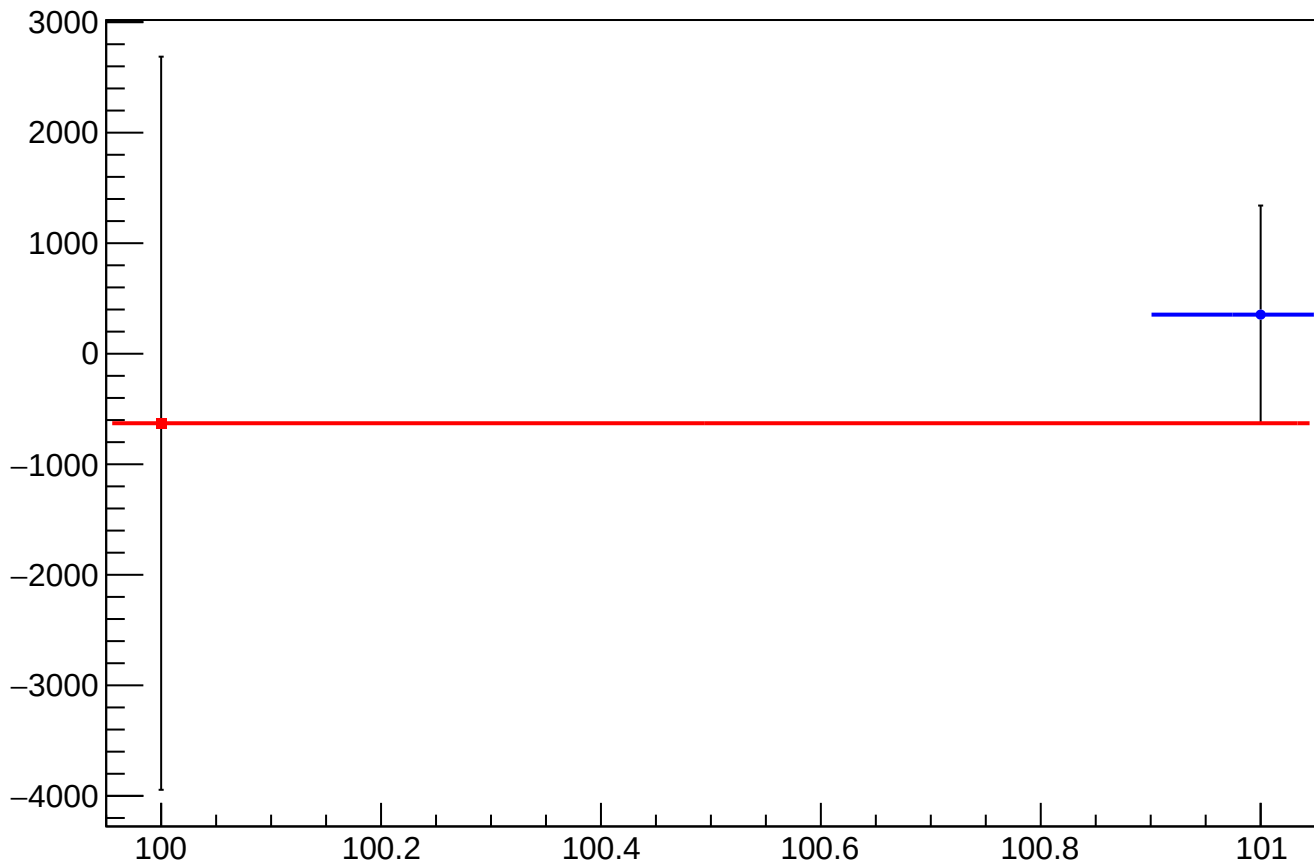
Right: 741.640 $\pm$ 0.615  $\chi^2$ /NDF: 3565.4/1

In: 731.443 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

All: 741.640 $\pm$ 0.615  $\chi^2$ /NDF: 3565.4/1

asym\_us\_avg\_overload\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 353.738+/-986.876  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -628.781+/-3316.278  $\chi^2/\text{NDF}$ : 0.0/0

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

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

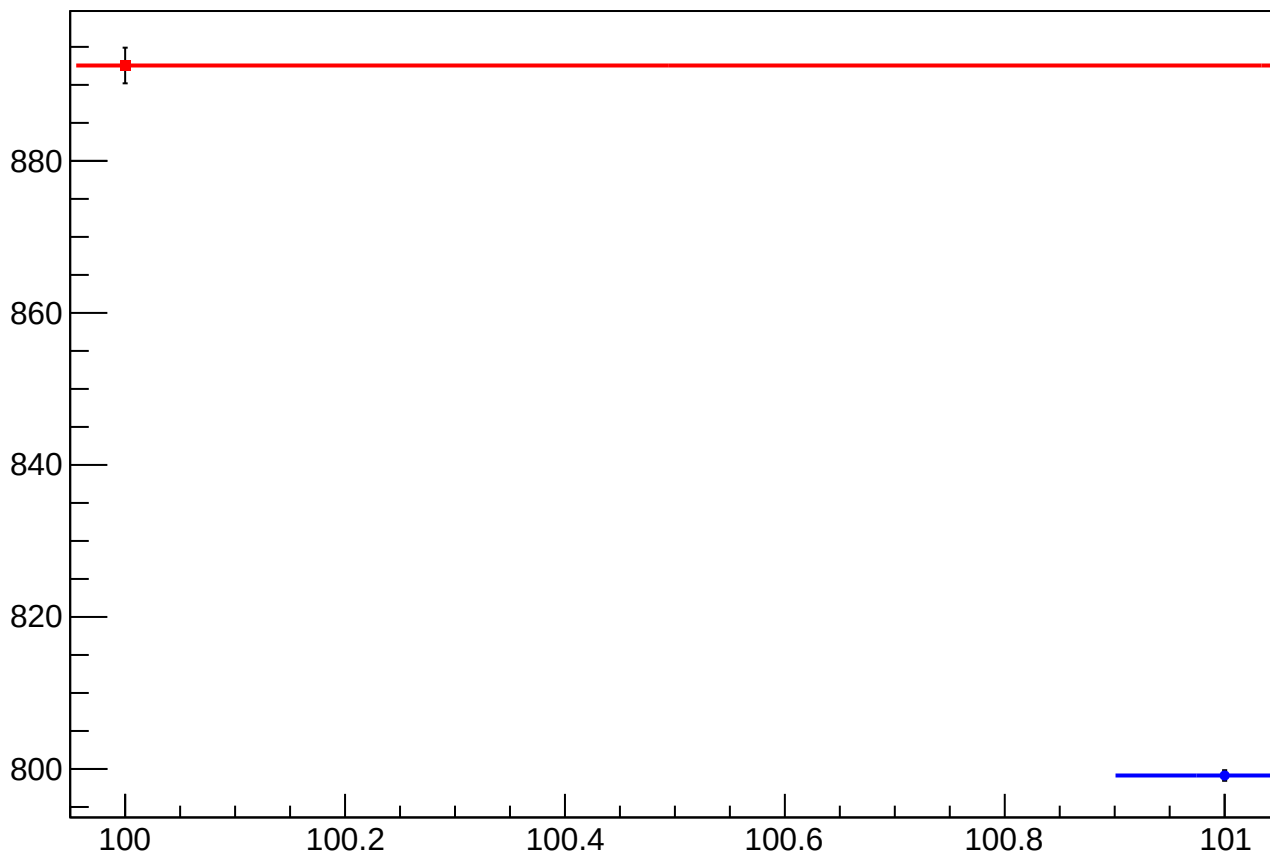
Right: 273.807+/-945.882  $\chi^2/\text{NDF}$ : 0.1/1

In: 353.738+/-986.876  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 273.807+/-945.882  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_avg\_overload\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 799.142+/-0.698  $\chi^2$ /NDF: 0.0/0

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

Right Out: 892.551+/-2.345  $\chi^2$ /NDF: 0.0/0

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

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

Right: 806.741+/-0.669  $\chi^2$ /NDF: 1457.6/1

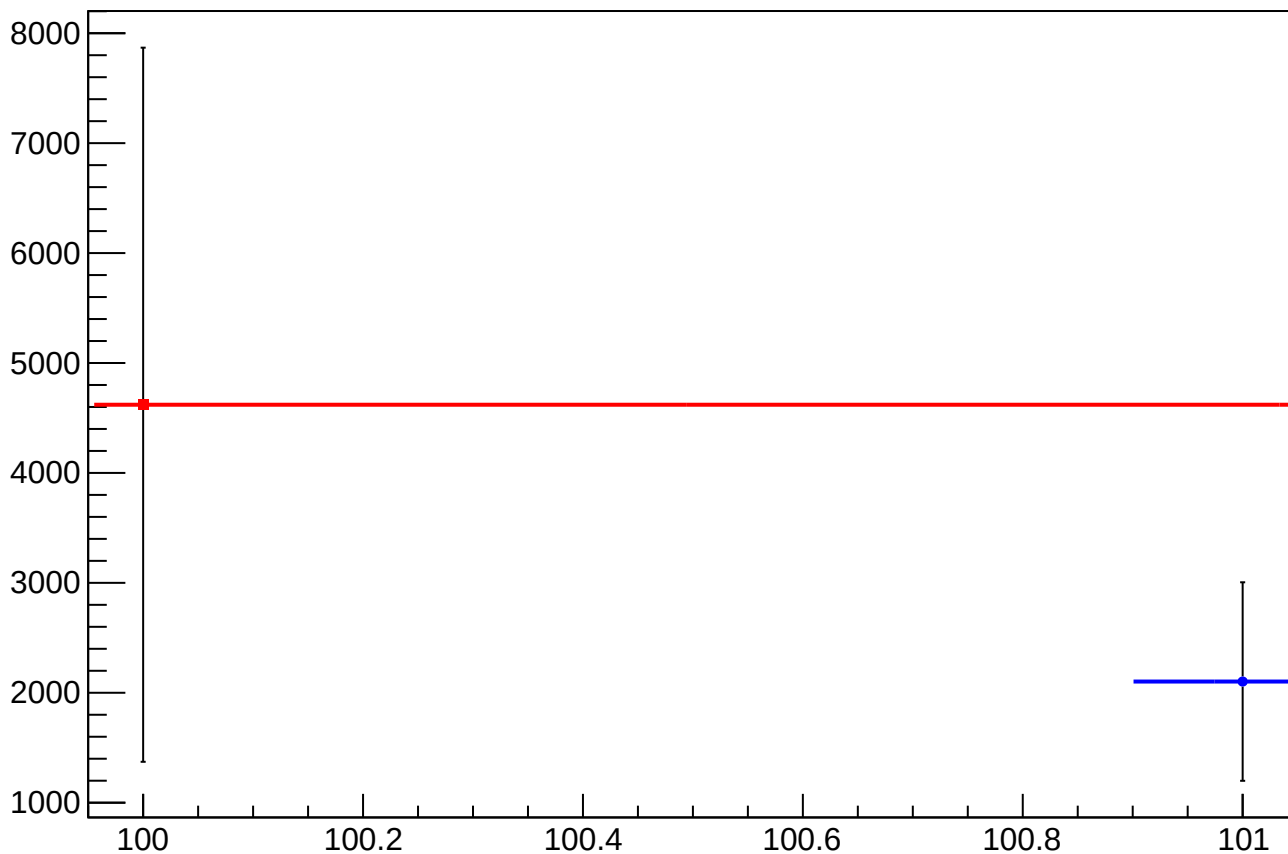
In: 799.142+/-0.698  $\chi^2$ /NDF: 0.0/0

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

All: 806.741+/-0.669  $\chi^2$ /NDF: 1457.6/1



eigen\_cor\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2102.156+/-902.970  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4620.287+/-3248.303  $\chi^2/\text{NDF}$ : 0.0/0

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

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

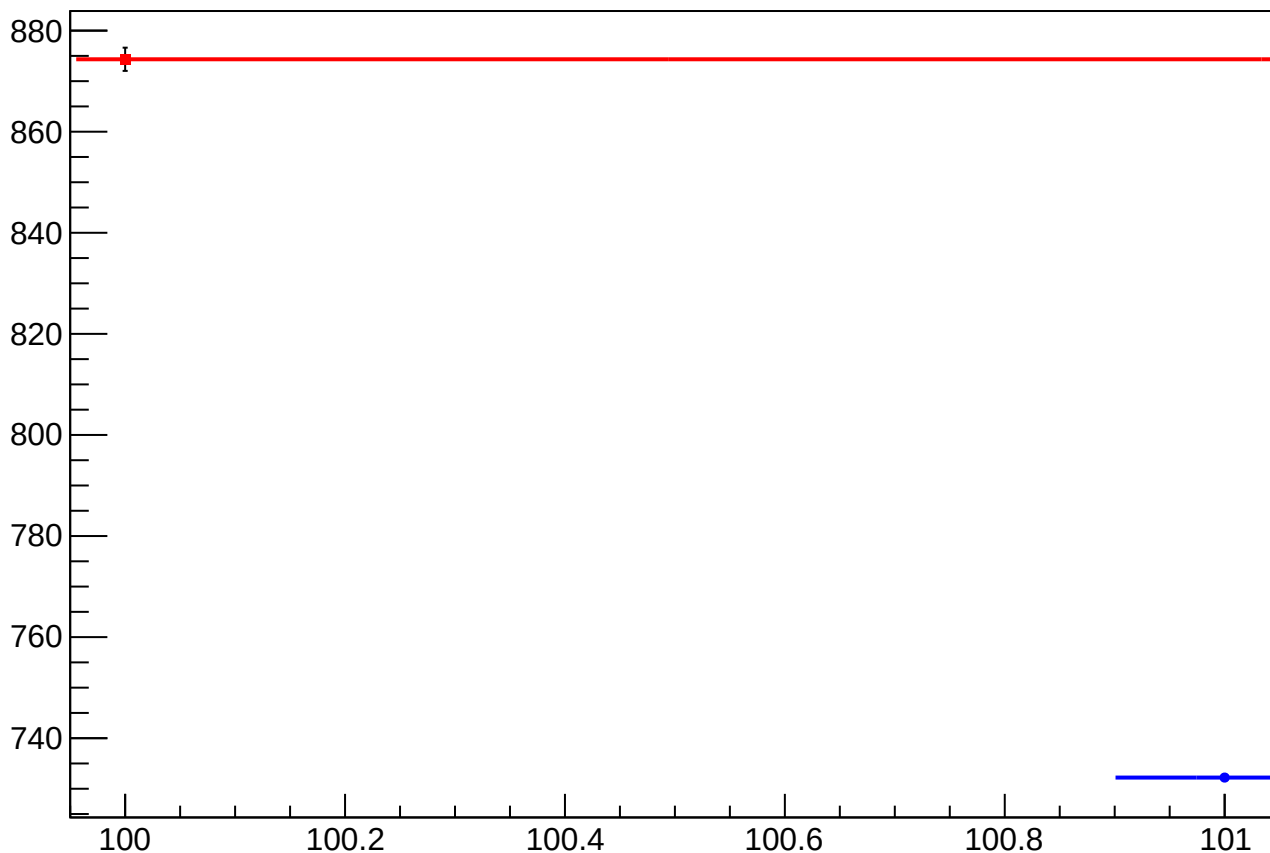
Right: 2282.784+/-869.982  $\chi^2/\text{NDF}$ : 0.6/1

In: 2102.156+/-902.970  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2282.784+/-869.982  $\chi^2/\text{NDF}$ : 0.6/1

eigen\_cor\_asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 732.211 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

Right Out: 874.329 $\pm$ 2.297  $\chi^2$ /NDF: 0.0/0

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

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

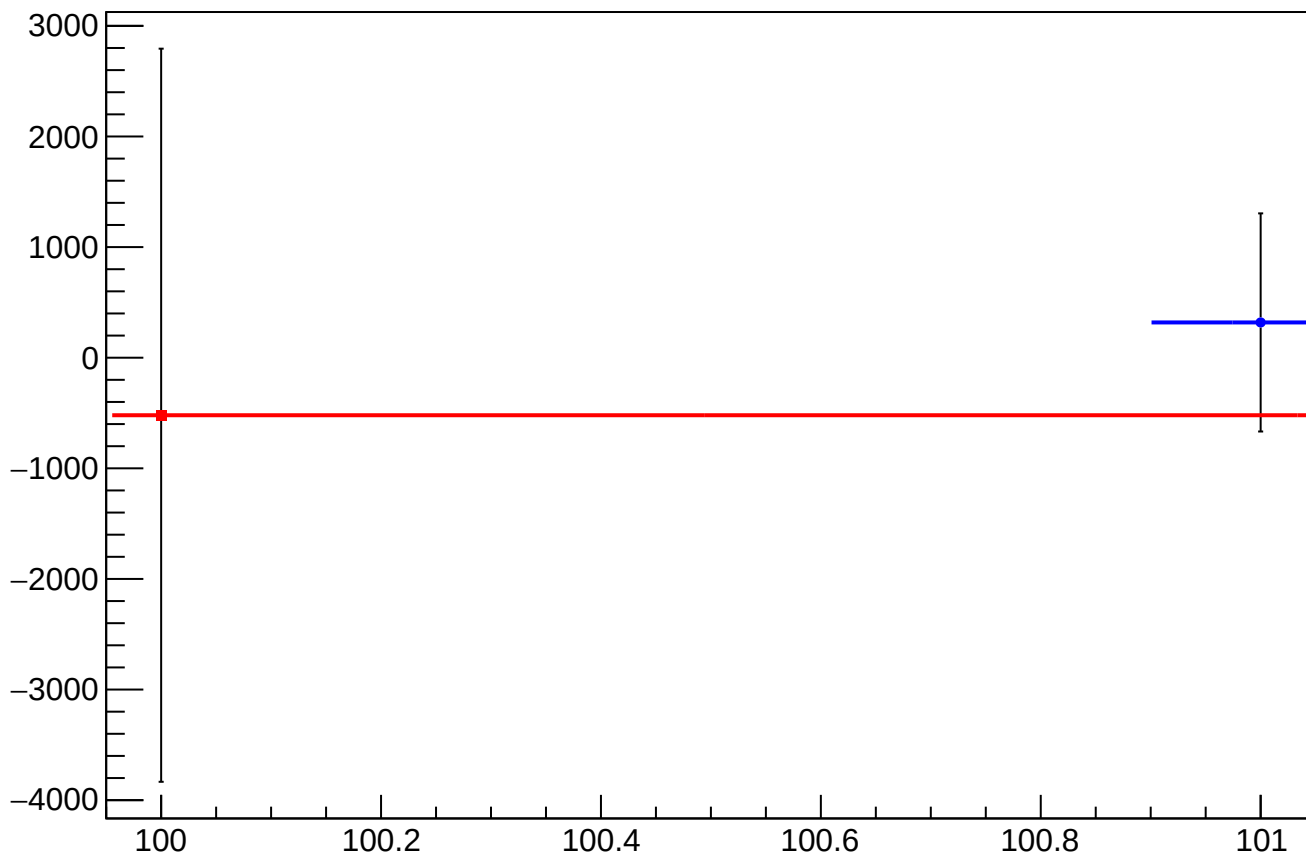
Right: 742.405 $\pm$ 0.615  $\chi^2$ /NDF: 3553.8/1

In: 732.211 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

All: 742.405 $\pm$ 0.615  $\chi^2$ /NDF: 3553.8/1

asym\_us\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 318.852+/-985.996  $\chi^2$ /NDF: 0.0/0

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

Right Out: -520.078+/-3313.879  $\chi^2$ /NDF: 0.0/0

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

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

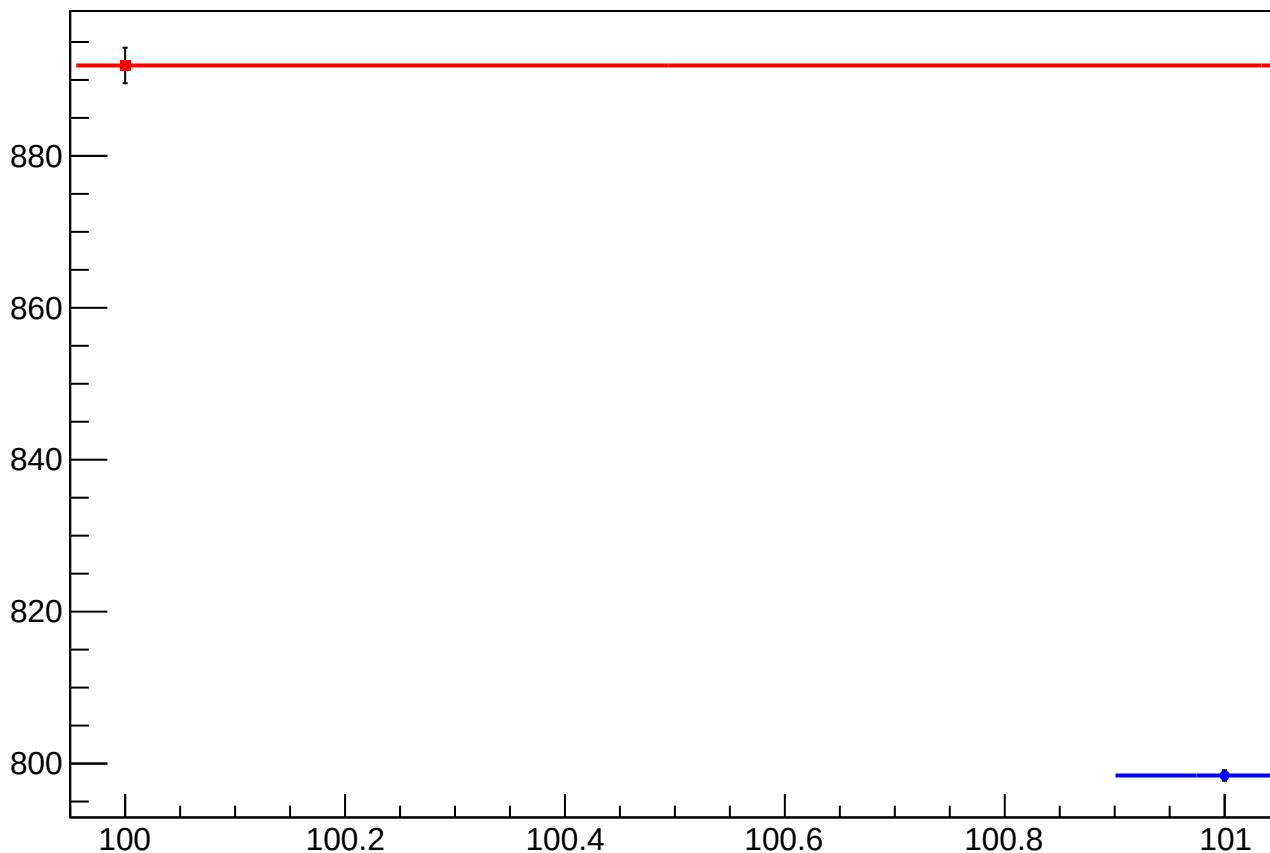
Right: 250.624+/-945.051  $\chi^2$ /NDF: 0.1/1

In: 318.852+/-985.996  $\chi^2$ /NDF:0.0/0

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

All: 250.624+/-945.051  $\chi^2$ /NDF: 0.1/1

asym\_us\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 798.426 $\pm$ 0.697  $\chi^2$ /NDF: 0.0/0

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

Right Out: 891.906 $\pm$ 2.343  $\chi^2$ /NDF: 0.0/0

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

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

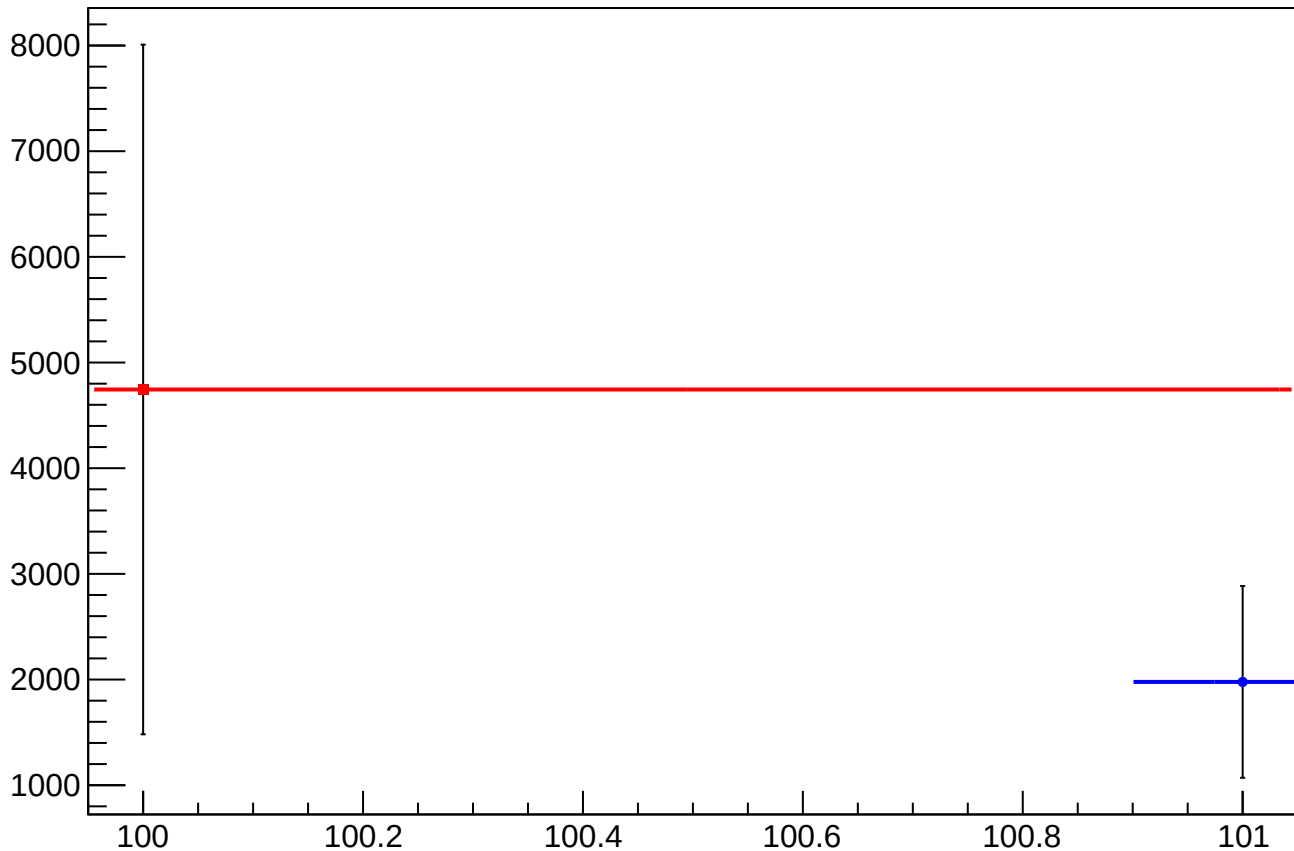
Right: 806.028 $\pm$ 0.668  $\chi^2$ /NDF: 1462.0/1

In: 798.426 $\pm$ 0.697  $\chi^2$ /NDF: 0.0/0

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

All: 806.028 $\pm$ 0.668  $\chi^2$ /NDF: 1462.0/1

# dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 1977.515+/-907.350  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4744.849+/-3263.247  $\chi^2/\text{NDF}$ : 0.0/0

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

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

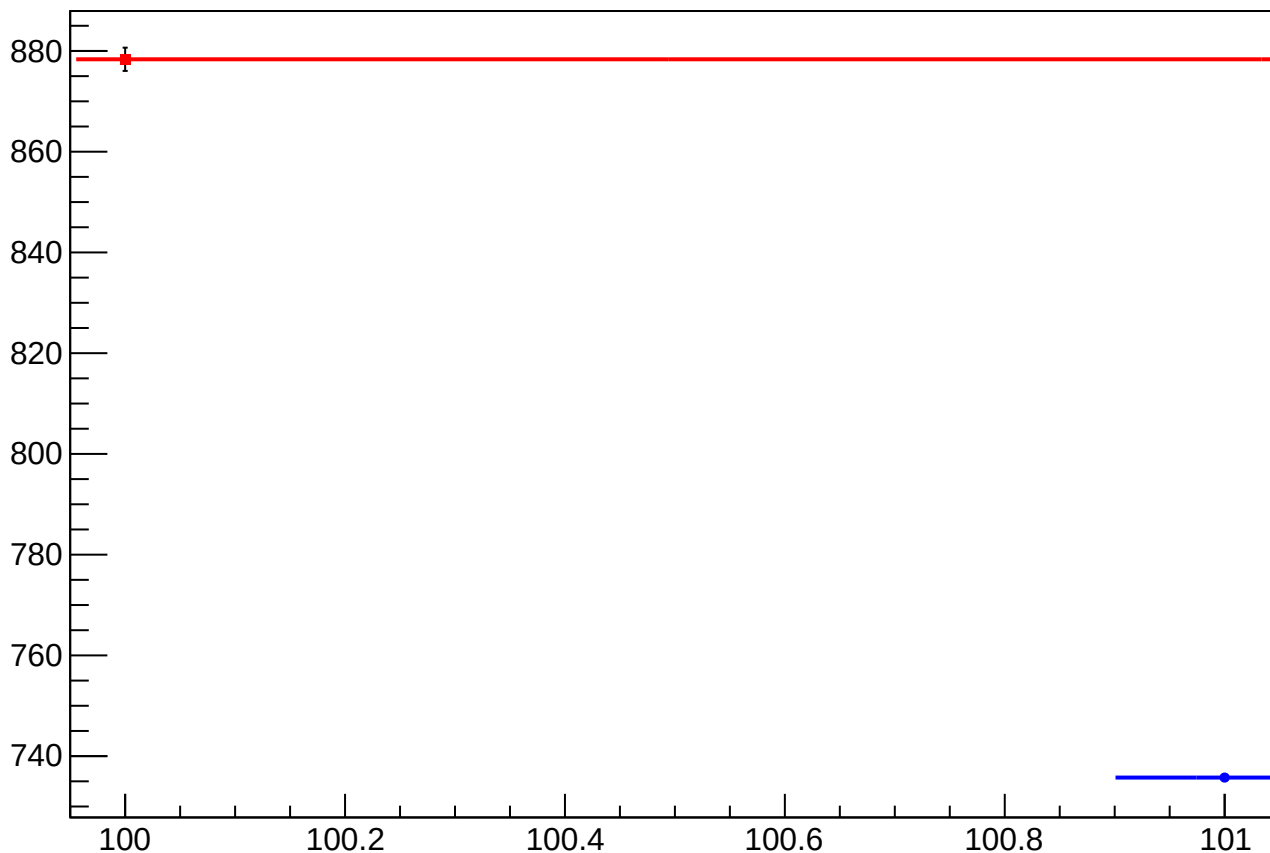
Right: 2176.111+/-874.186  $\chi^2/\text{NDF}$ : 0.7/1

In: 1977.515+/-907.350  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2176.111+/-874.186  $\chi^2/\text{NDF}$ : 0.7/1

# dit\_asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 735.746+/-0.642  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 878.345+/-2.307  $\chi^2/\text{NDF}$ : 0.0/0

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

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

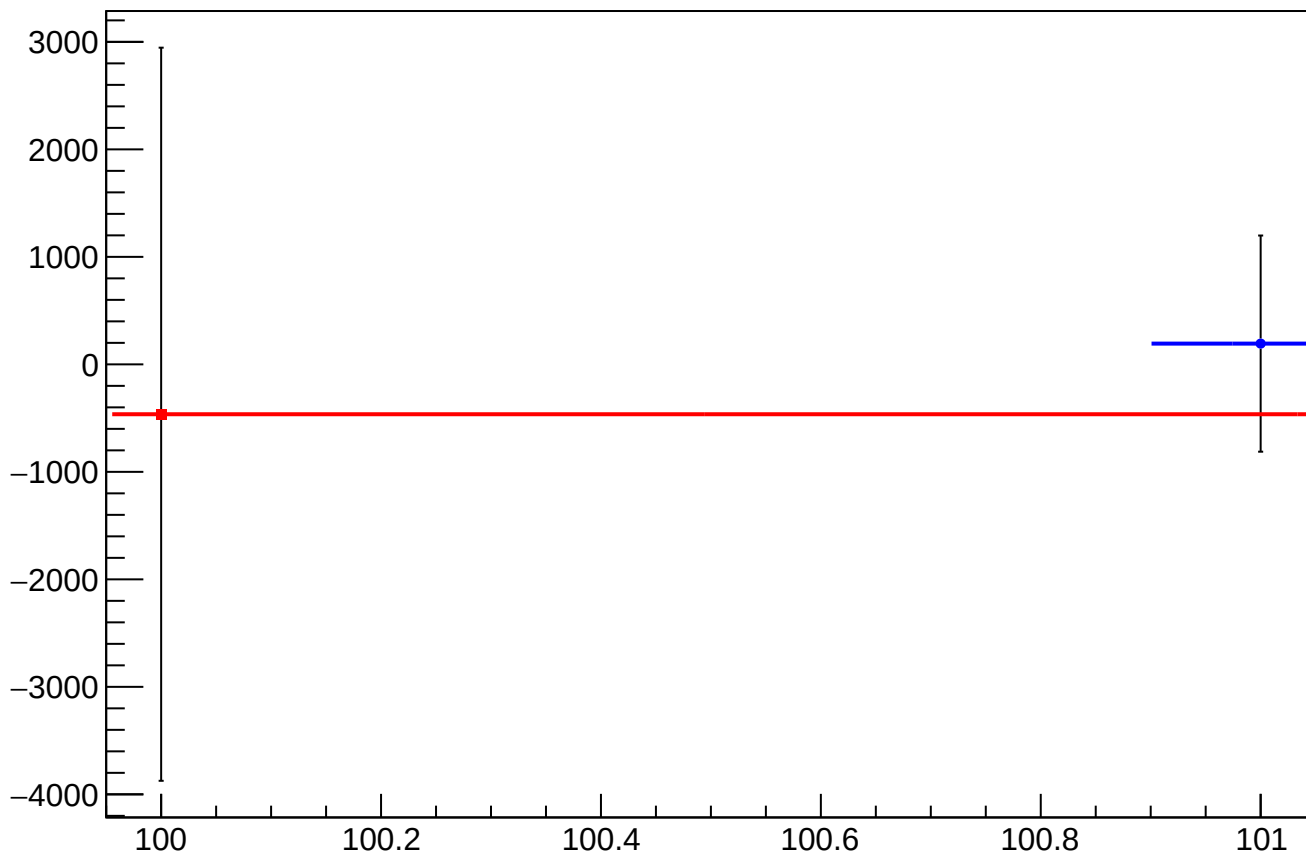
Right: 745.979+/-0.618  $\chi^2/\text{NDF}$ : 3545.1/1

In: 735.746+/-0.642  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 745.979+/-0.618  $\chi^2/\text{NDF}$ : 3545.1/1

asym\_us\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 193.046 $\pm$ 1005.493  $\chi^2$ /NDF: 0.0/0

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

Right Out: -463.964 $\pm$ 3410.021  $\chi^2$ /NDF: 0.0/0

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

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

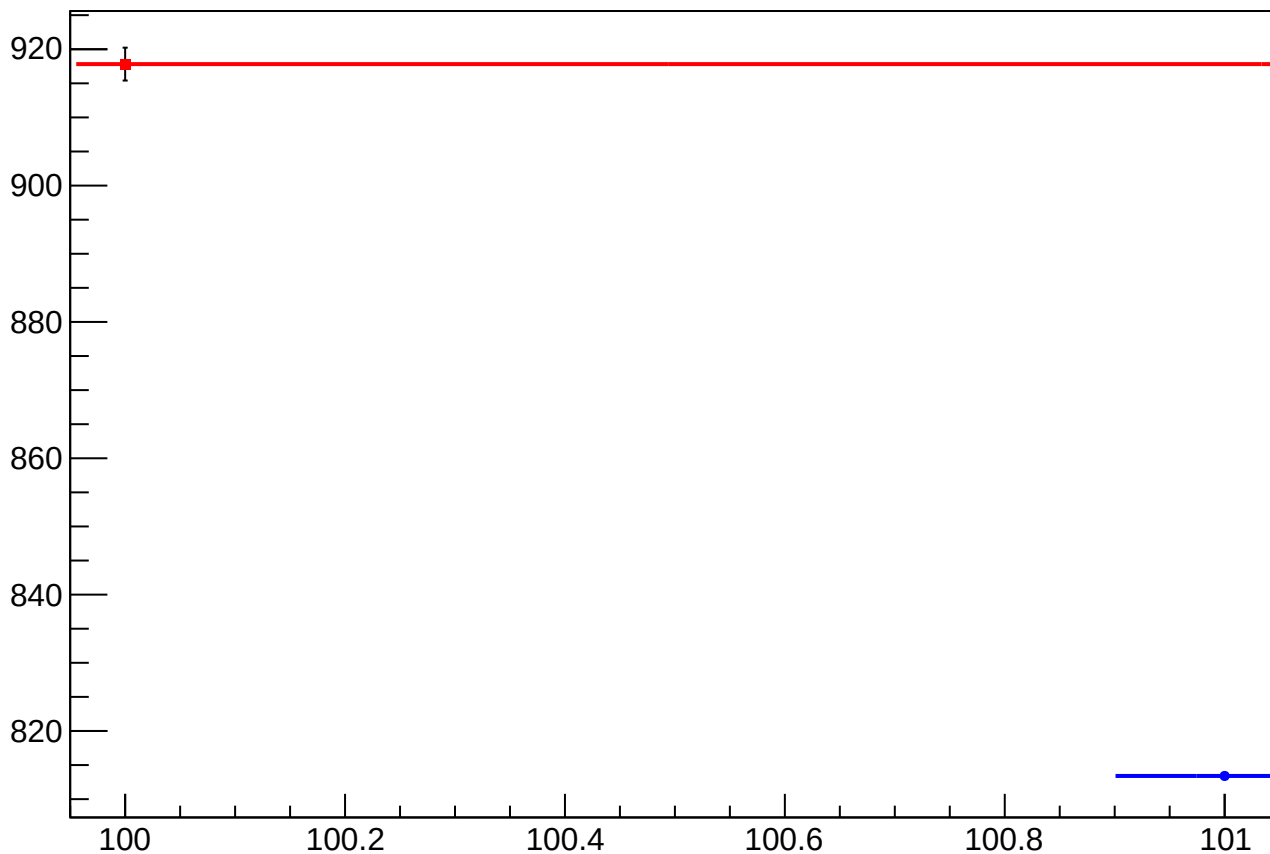
Right: 140.491 $\pm$ 964.440  $\chi^2$ /NDF: 0.0/1

In: 193.046 $\pm$ 1005.493  $\chi^2$ /NDF:0.0/0

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

All: 140.491 $\pm$ 964.440  $\chi^2$ /NDF: 0.0/1

asym\_us\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 813.402 $\pm$ 0.711  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 917.820 $\pm$ 2.411  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 821.755 $\pm$ 0.682  $\chi^2/\text{NDF}$ : 1725.3/1

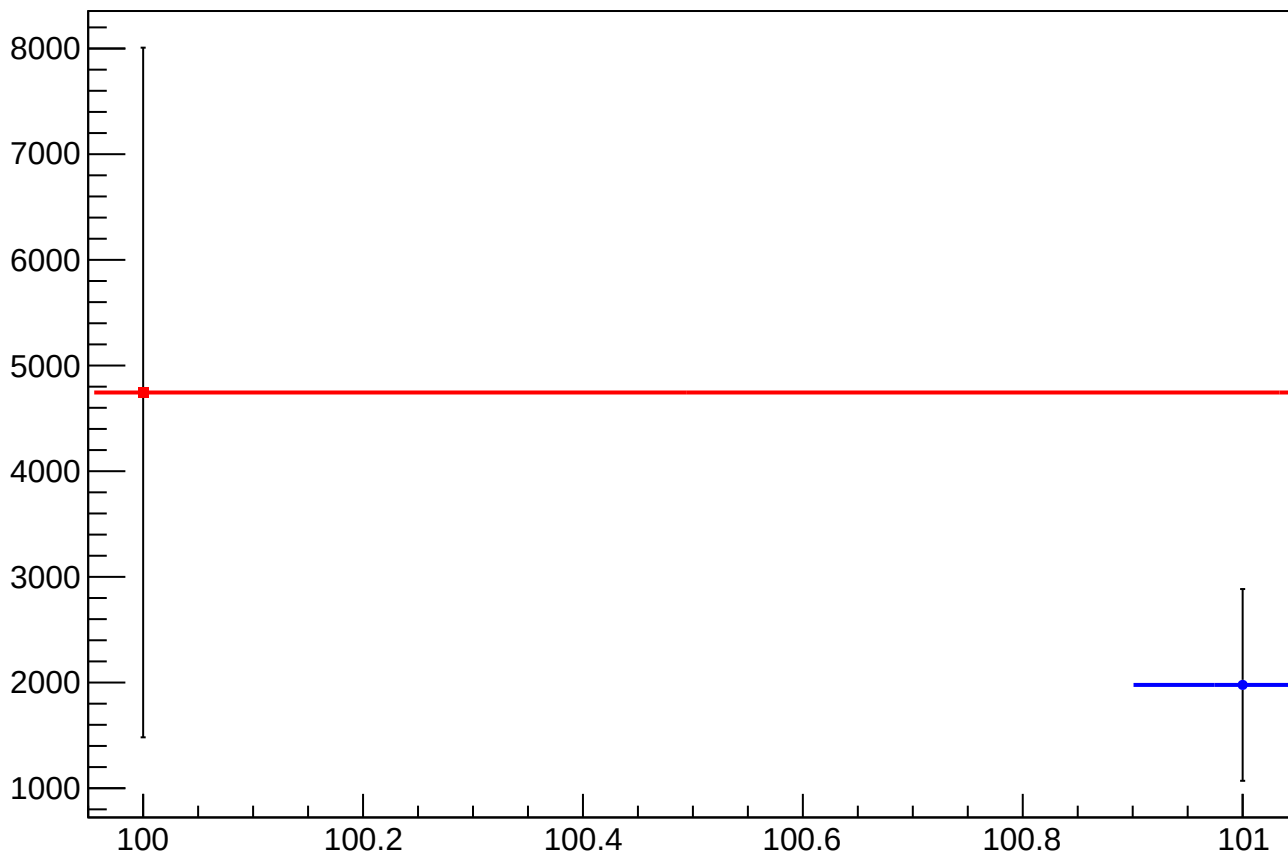
In: 813.402 $\pm$ 0.711  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 821.755 $\pm$ 0.682  $\chi^2/\text{NDF}$ : 1725.3/1



eigen\_dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 1977.514+/-907.350  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4744.850+/-3263.247  $\chi^2/\text{NDF}$ : 0.0/0

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

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

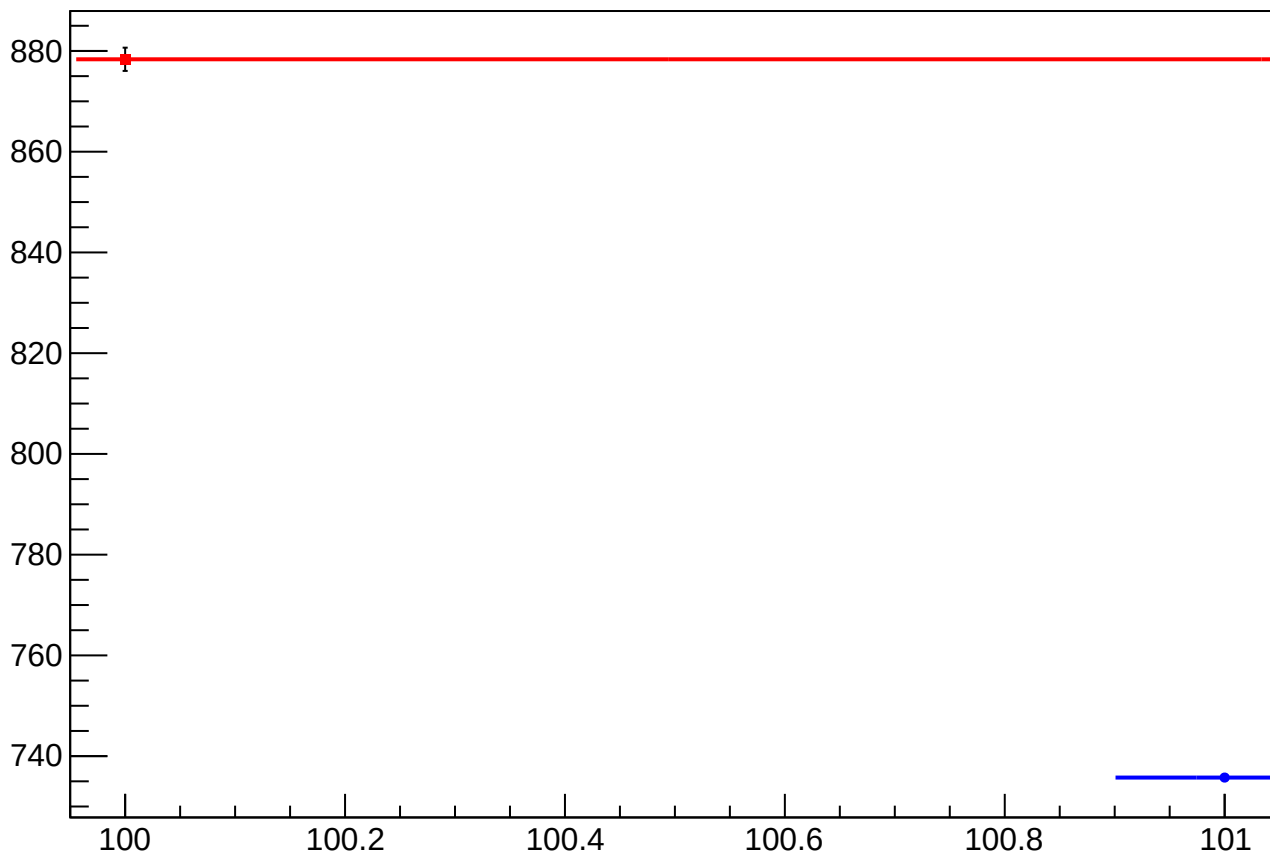
Right: 2176.109+/-874.186  $\chi^2/\text{NDF}$ : 0.7/1

In: 1977.514+/-907.350  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2176.109+/-874.186  $\chi^2/\text{NDF}$ : 0.7/1

eigen\_dit\_asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 735.746 $\pm$ 0.642  $\chi^2$ /NDF: 0.0/0

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

Right Out: 878.345 $\pm$ 2.307  $\chi^2$ /NDF: 0.0/0

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

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

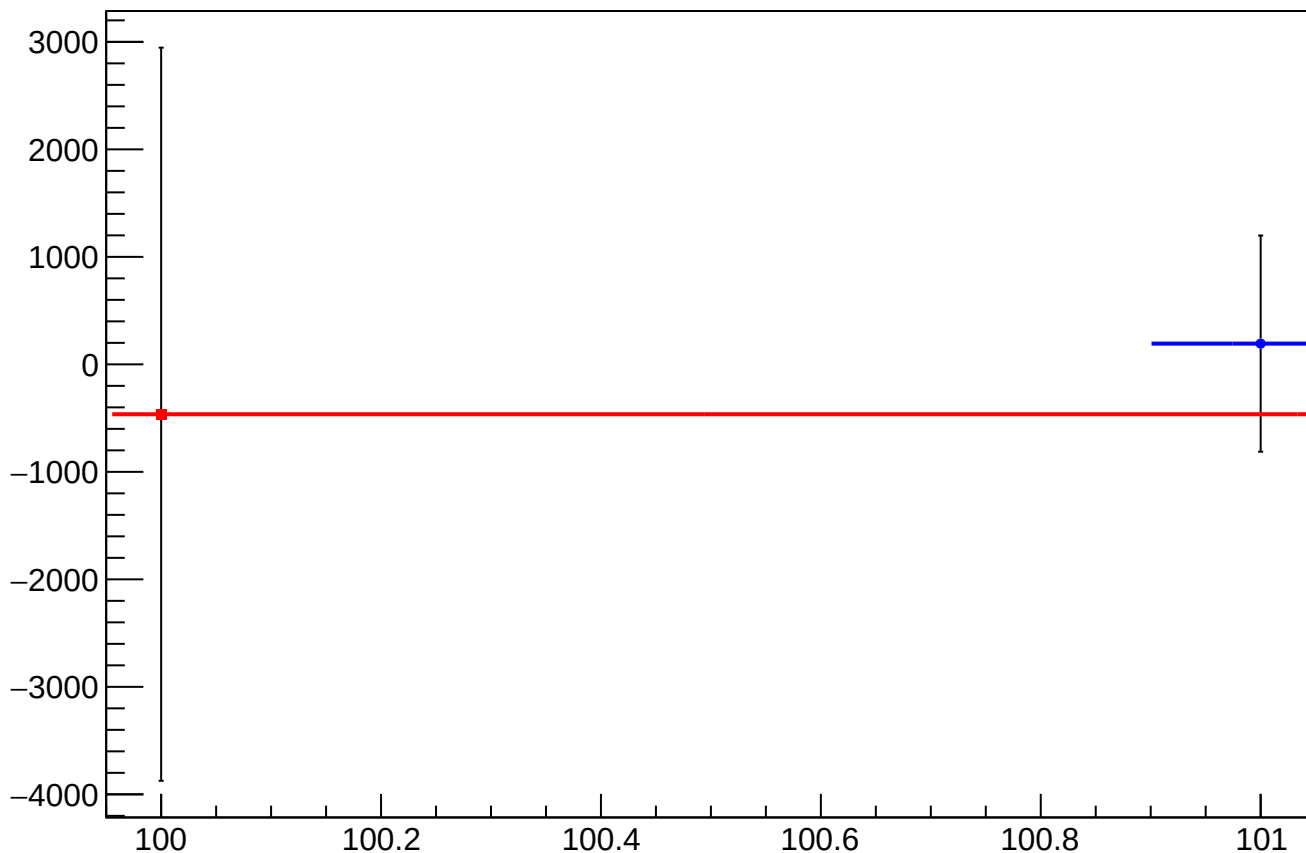
Right: 745.979 $\pm$ 0.618  $\chi^2$ /NDF: 3545.1/1

In: 735.746 $\pm$ 0.642  $\chi^2$ /NDF: 0.0/0

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

All: 745.979 $\pm$ 0.618  $\chi^2$ /NDF: 3545.1/1

asym\_us\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 193.045+/-1005.492  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -463.963+/-3410.017  $\chi^2/\text{NDF}$ : 0.0/0

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

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

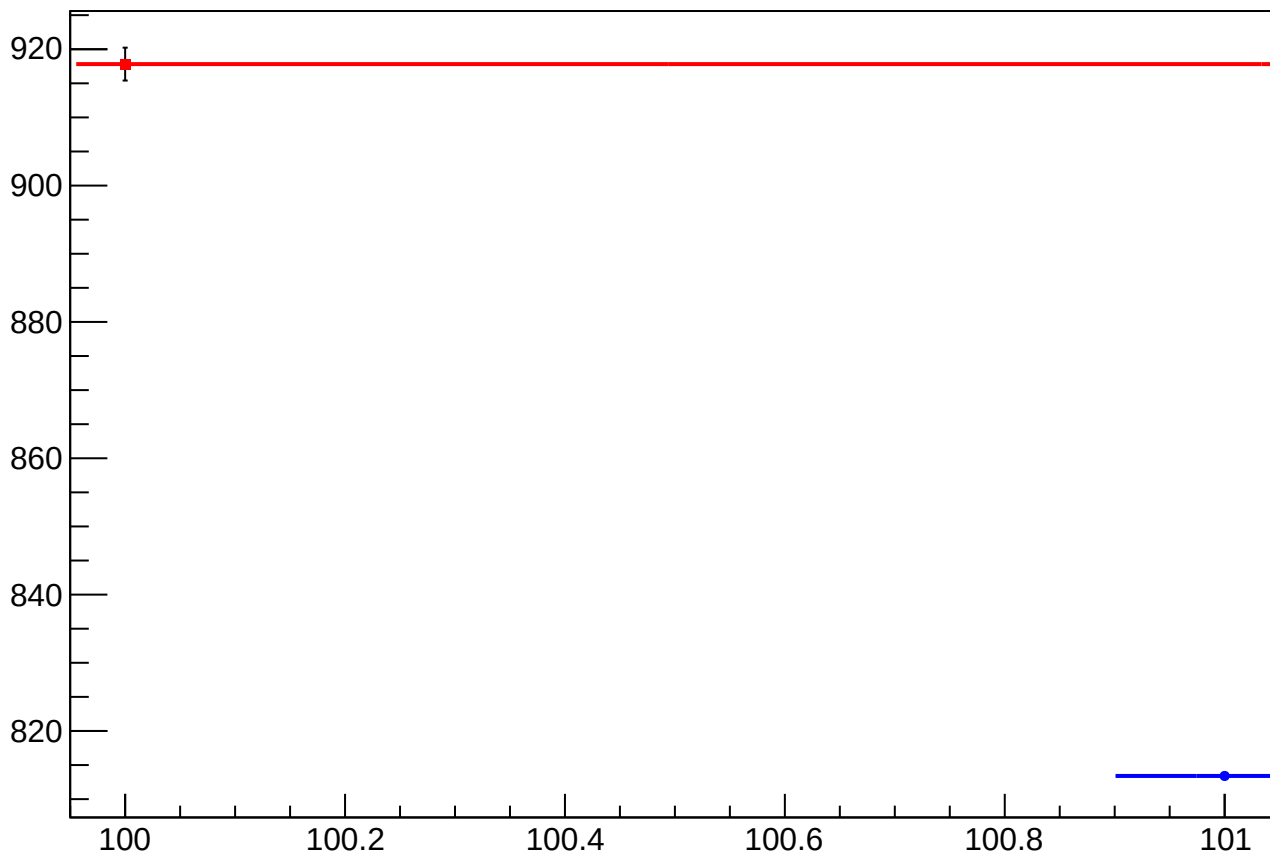
Right: 140.491+/-964.439  $\chi^2/\text{NDF}$ : 0.0/1

In: 193.045+/-1005.492  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 140.491+/-964.439  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 813.401 $\pm$ 0.711  $\chi^2$ /NDF: 0.0/0

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

Right Out: 917.819 $\pm$ 2.411  $\chi^2$ /NDF: 0.0/0

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

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

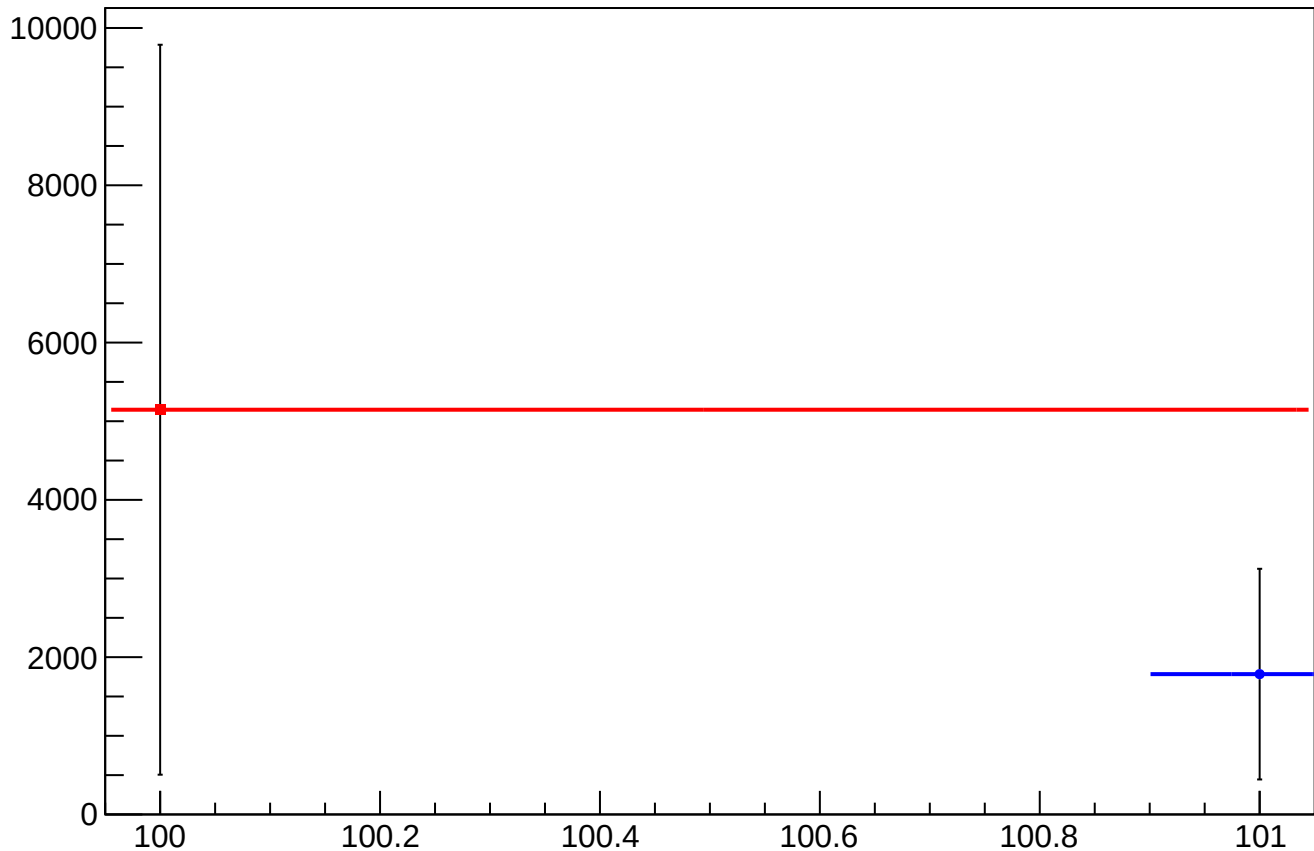
Right: 821.754 $\pm$ 0.682  $\chi^2$ /NDF: 1725.3/1

In: 813.401 $\pm$ 0.711  $\chi^2$ /NDF:0.0/0

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

All: 821.754 $\pm$ 0.682  $\chi^2$ /NDF: 1725.3/1

# asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 1784.276+/-1339.280  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 5146.242+/-4640.678  $\chi^2/\text{NDF}$ : 0.0/0

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

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

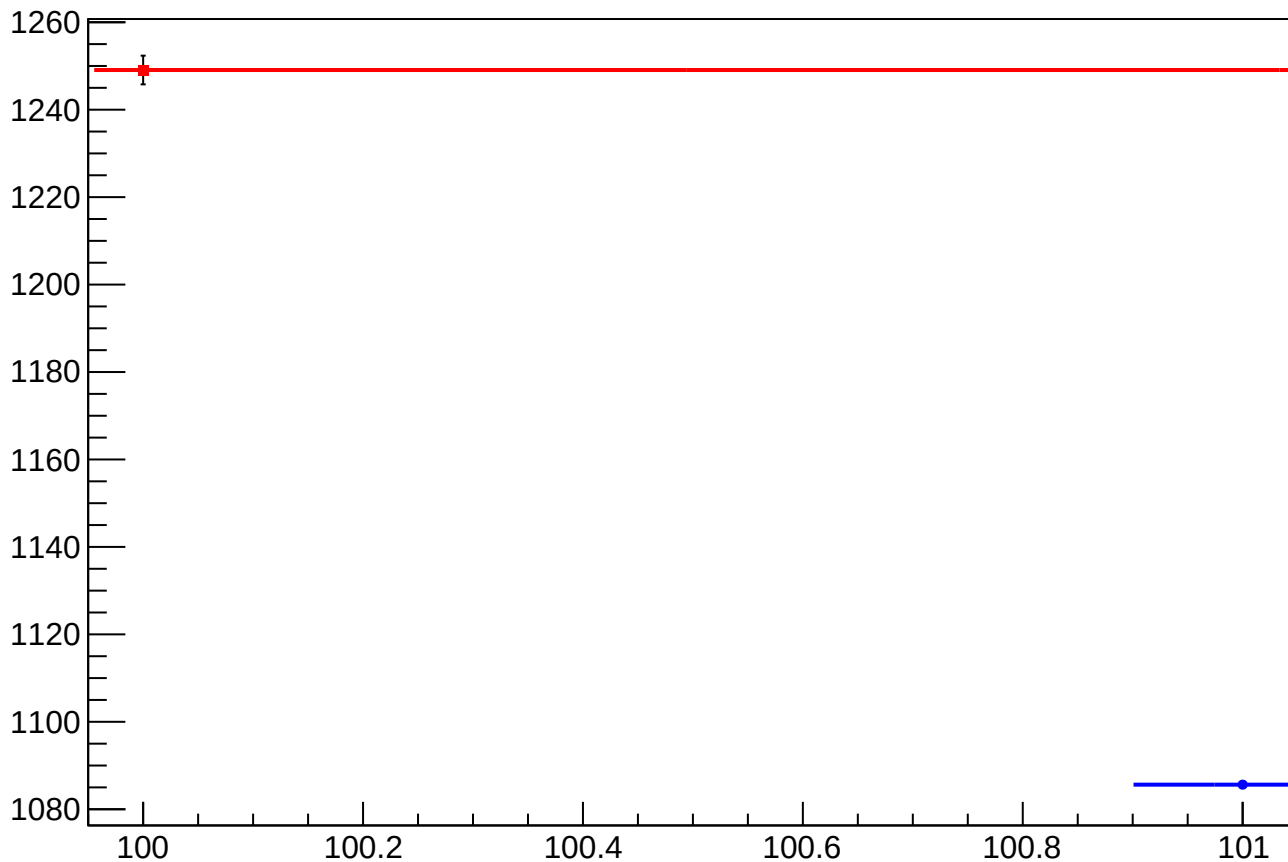
Right: 2042.758+/-1286.766  $\chi^2/\text{NDF}$ : 0.5/1

In: 1784.276+/-1339.280  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2042.758+/-1286.766  $\chi^2/\text{NDF}$ : 0.5/1

# asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 1085.624+/-0.947  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1249.074+/-3.281  $\chi^2/\text{NDF}$ : 0.0/0

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

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

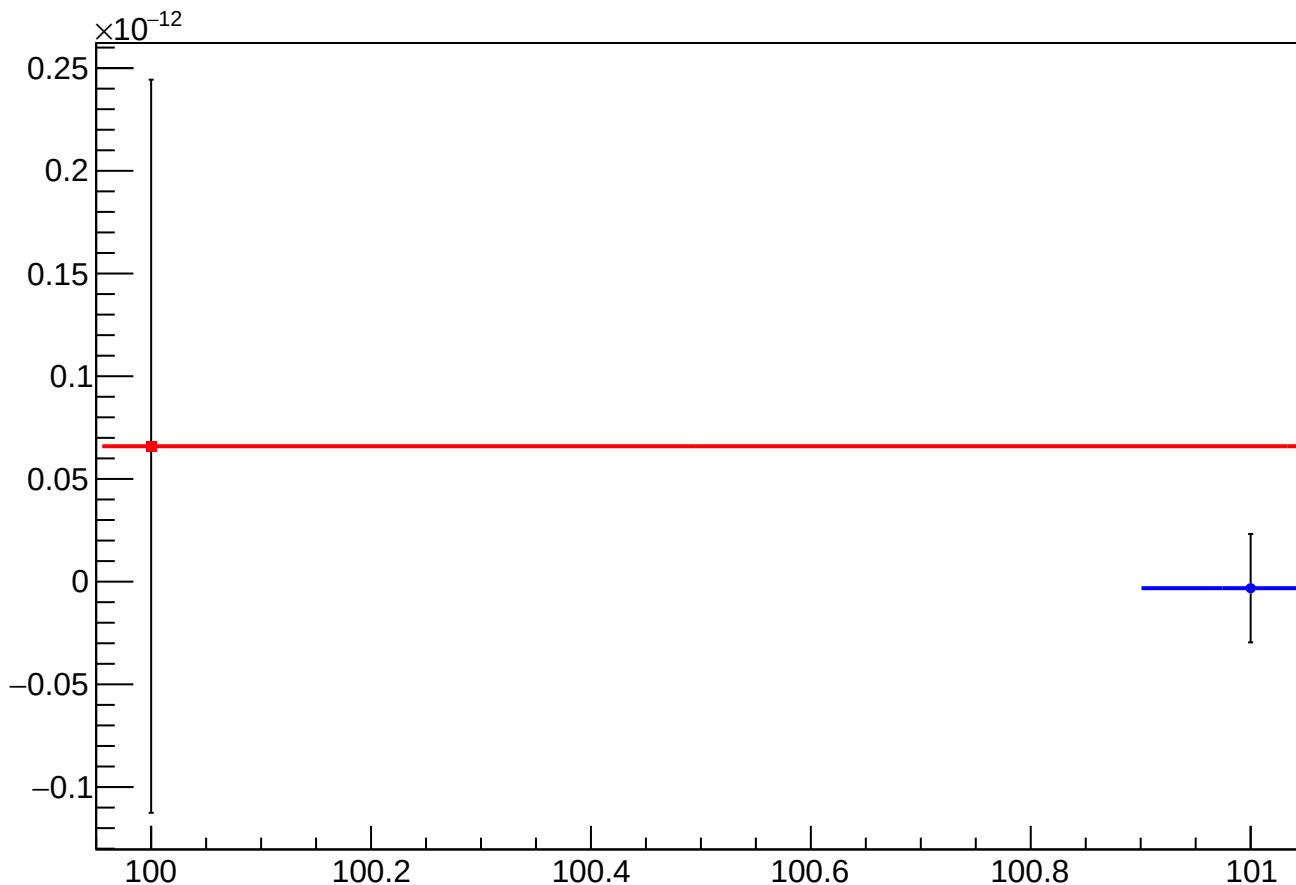
Right: 1098.191+/-0.910  $\chi^2/\text{NDF}$ : 2290.3/1

In: 1085.624+/-0.947  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1098.191+/-0.910  $\chi^2/\text{NDF}$ : 2290.3/1

asym\_us\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

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

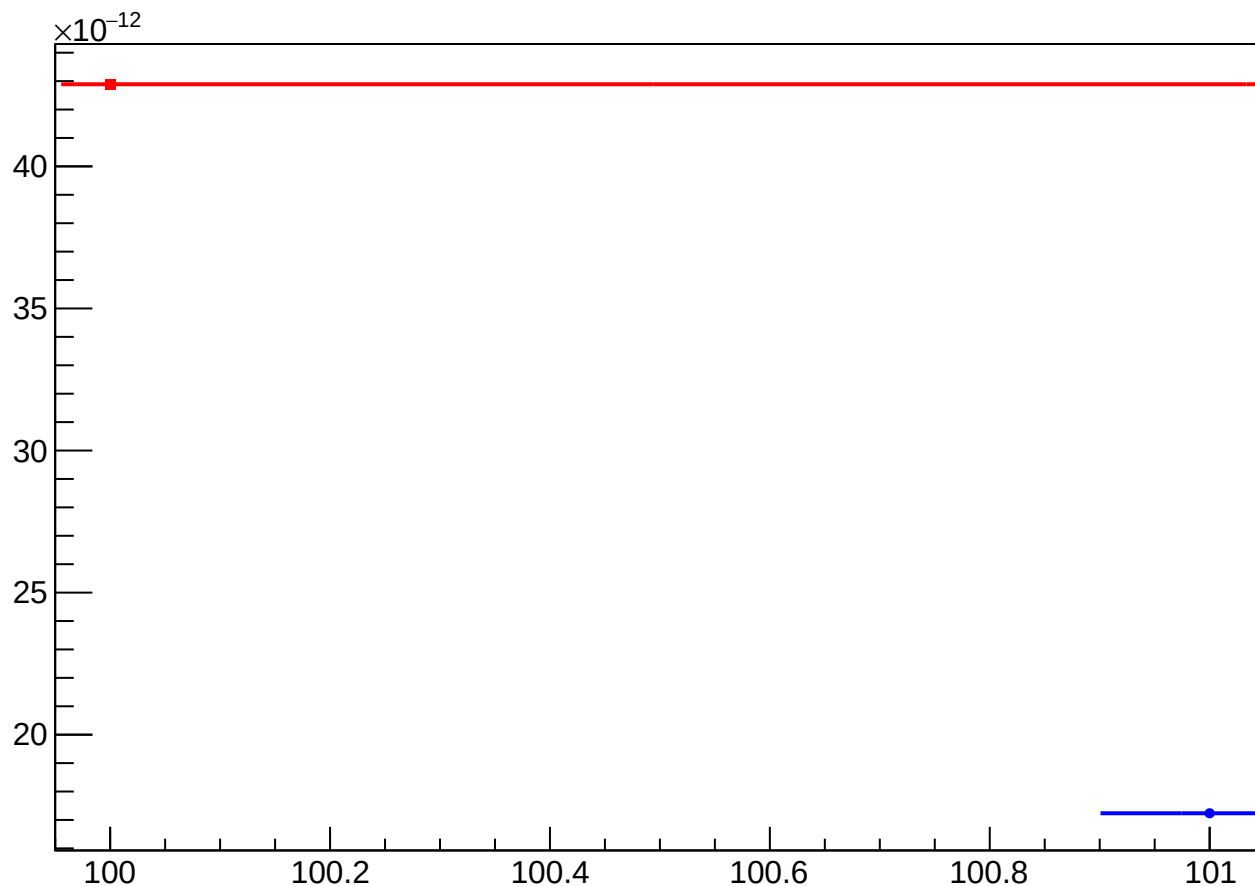
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

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

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 40450.6/1

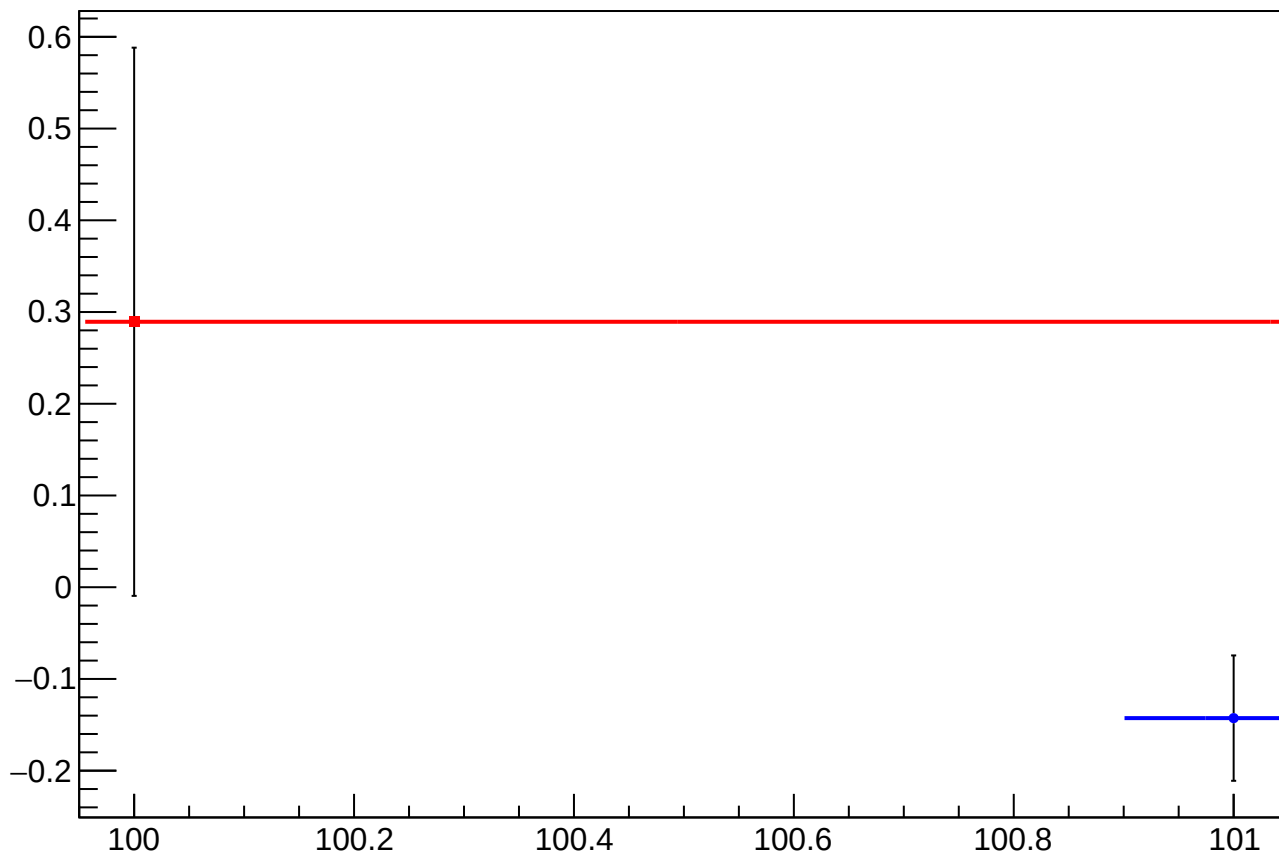
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 40450.6/1



asym\_us\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.143+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.289+/-0.299  $\chi^2/\text{NDF}$ : 0.0/0

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

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

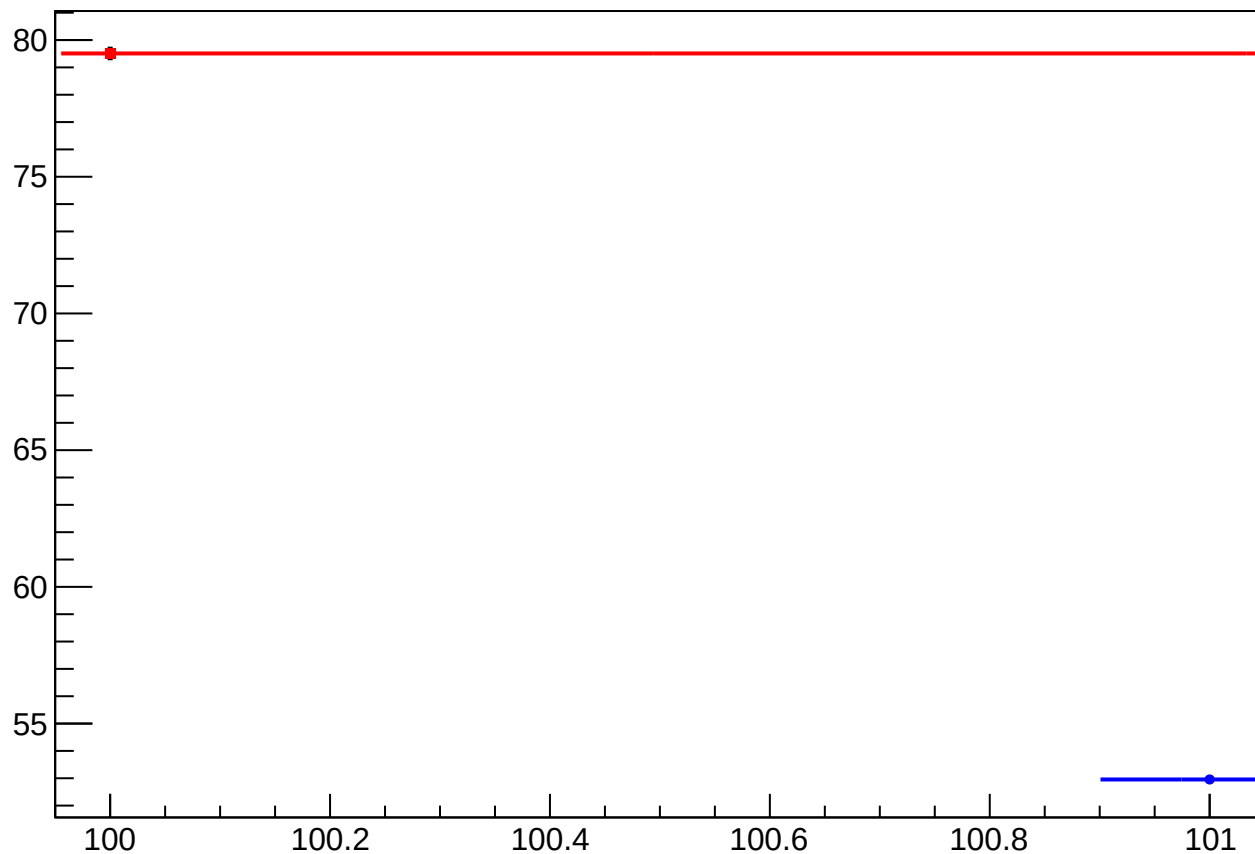
Right: -0.121+/-0.067  $\chi^2/\text{NDF}$ : 2.0/1

In: -0.143+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.121+/-0.067  $\chi^2/\text{NDF}$ : 2.0/1

asym\_us\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 52.955+/-0.048  $\chi^2$ /NDF: 0.0/0

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

Right Out: 79.510+/-0.211  $\chi^2$ /NDF: 0.0/0

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

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

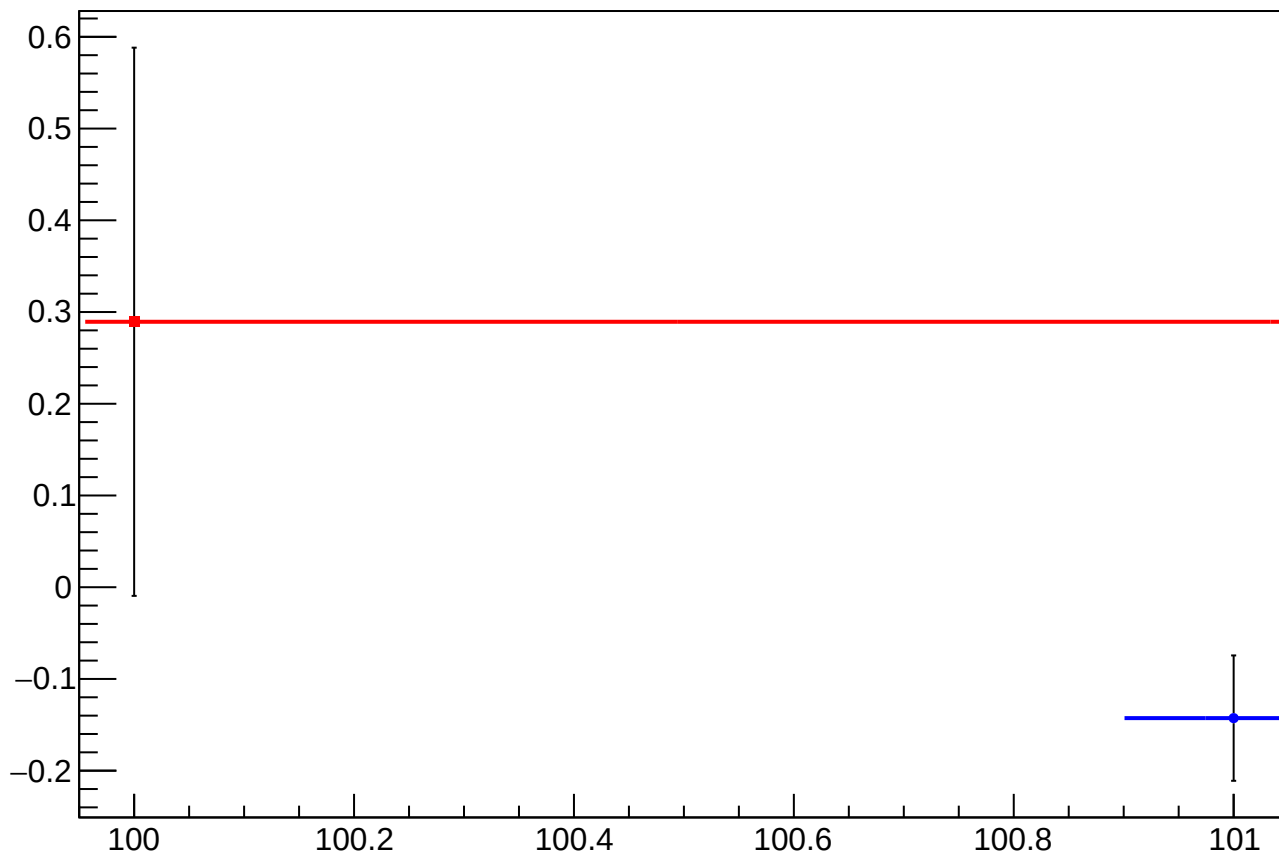
Right: 54.275+/-0.047  $\chi^2$ /NDF: 15009.9/1

In: 52.955+/-0.048  $\chi^2$ /NDF: 0.0/0

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

All: 54.275+/-0.047  $\chi^2$ /NDF: 15009.9/1

asym\_us\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.143+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.289+/-0.299  $\chi^2/\text{NDF}$ : 0.0/0

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

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

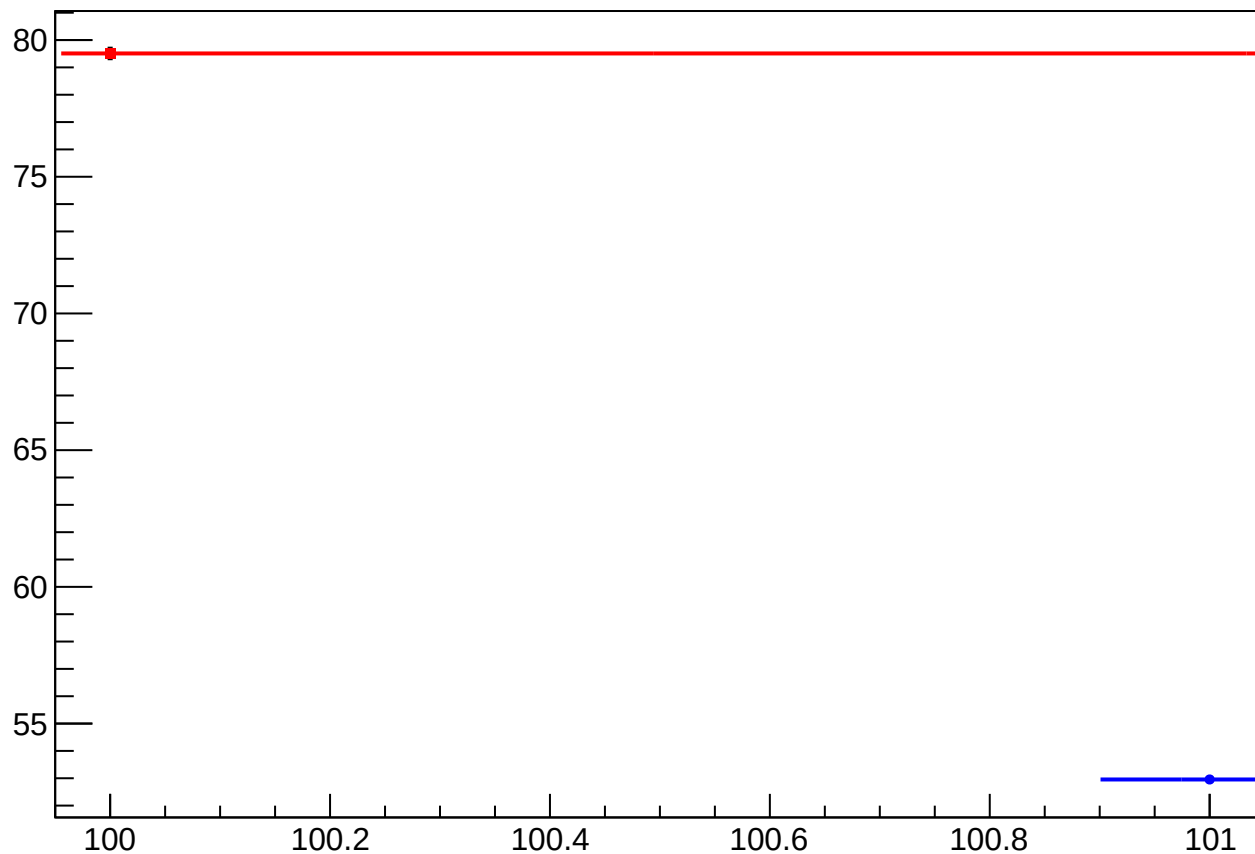
Right: -0.121+/-0.067  $\chi^2/\text{NDF}$ : 2.0/1

In: -0.143+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.121+/-0.067  $\chi^2/\text{NDF}$ : 2.0/1

asym\_us\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 52.955 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

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

Right Out: 79.510 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

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

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

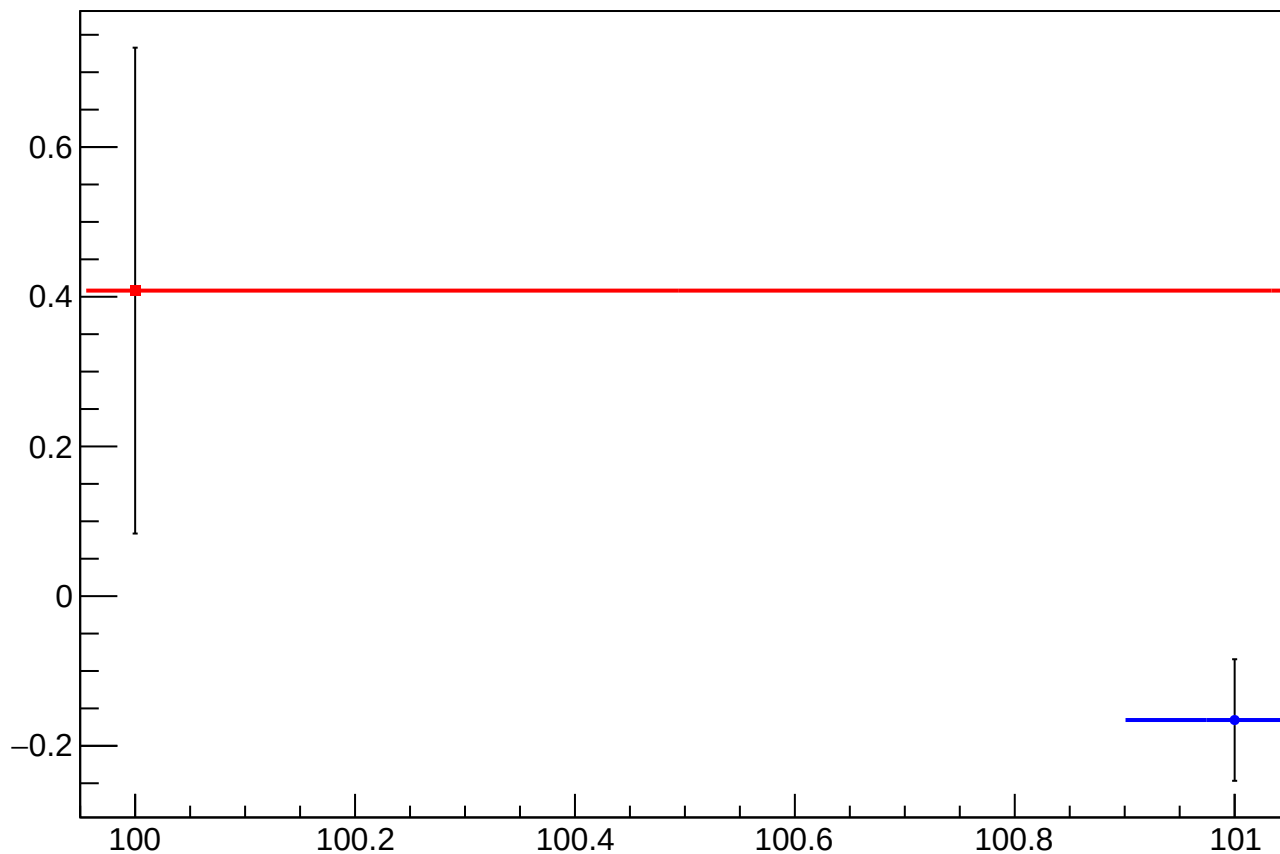
Right: 54.275 $\pm$ 0.047  $\chi^2$ /NDF: 15009.9/1

In: 52.955 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

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

All: 54.275 $\pm$ 0.047  $\chi^2$ /NDF: 15009.9/1

asym\_us\_avg\_dit\_vs\_overload\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.166+/-0.081  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.408+/-0.325  $\chi^2/\text{NDF}$ : 0.0/0

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

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

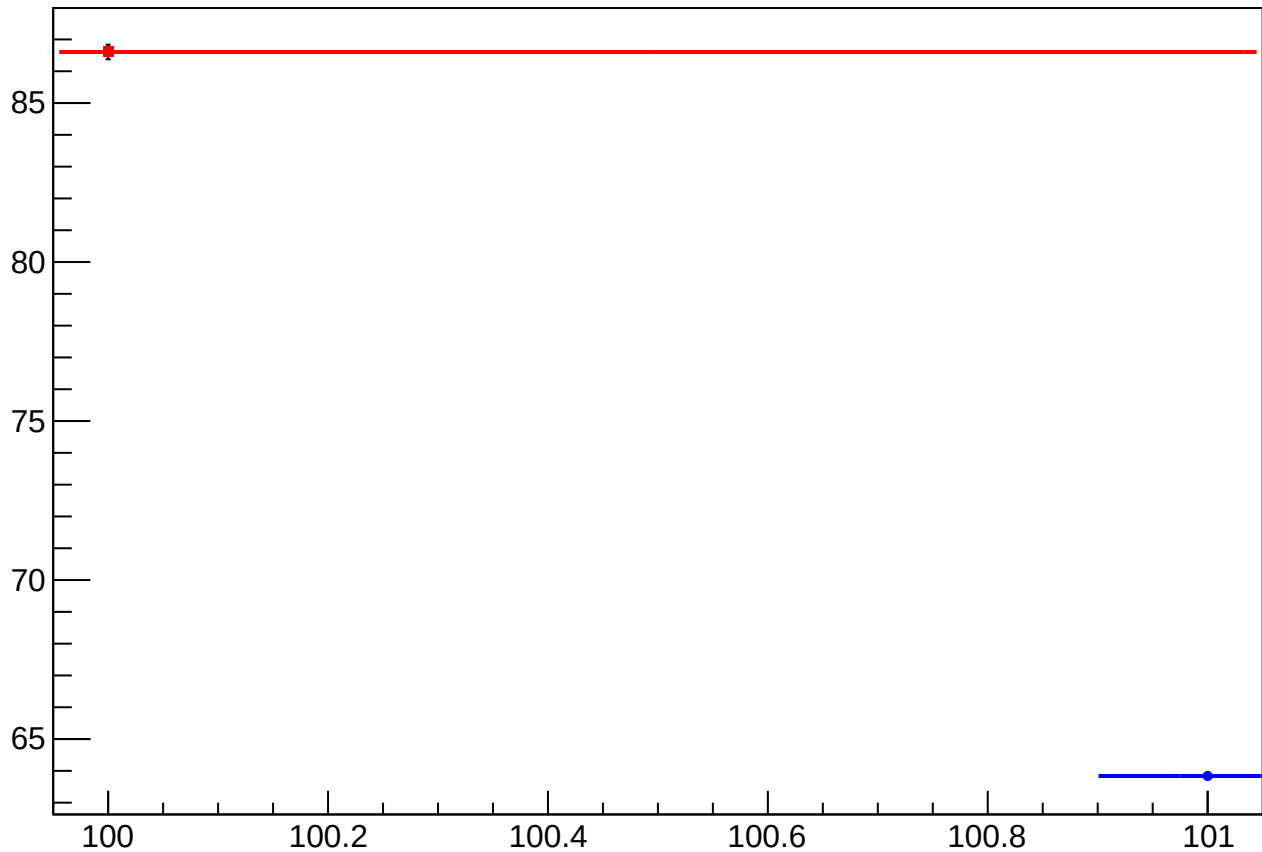
Right: -0.132+/-0.079  $\chi^2/\text{NDF}$ : 2.9/1

In: -0.166+/-0.081  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.132+/-0.079  $\chi^2/\text{NDF}$ : 2.9/1

asym\_us\_avg\_dit\_vs\_overload\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 63.839+/-0.057  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 86.606+/-0.230  $\chi^2/\text{NDF}$ : 0.0/0

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

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

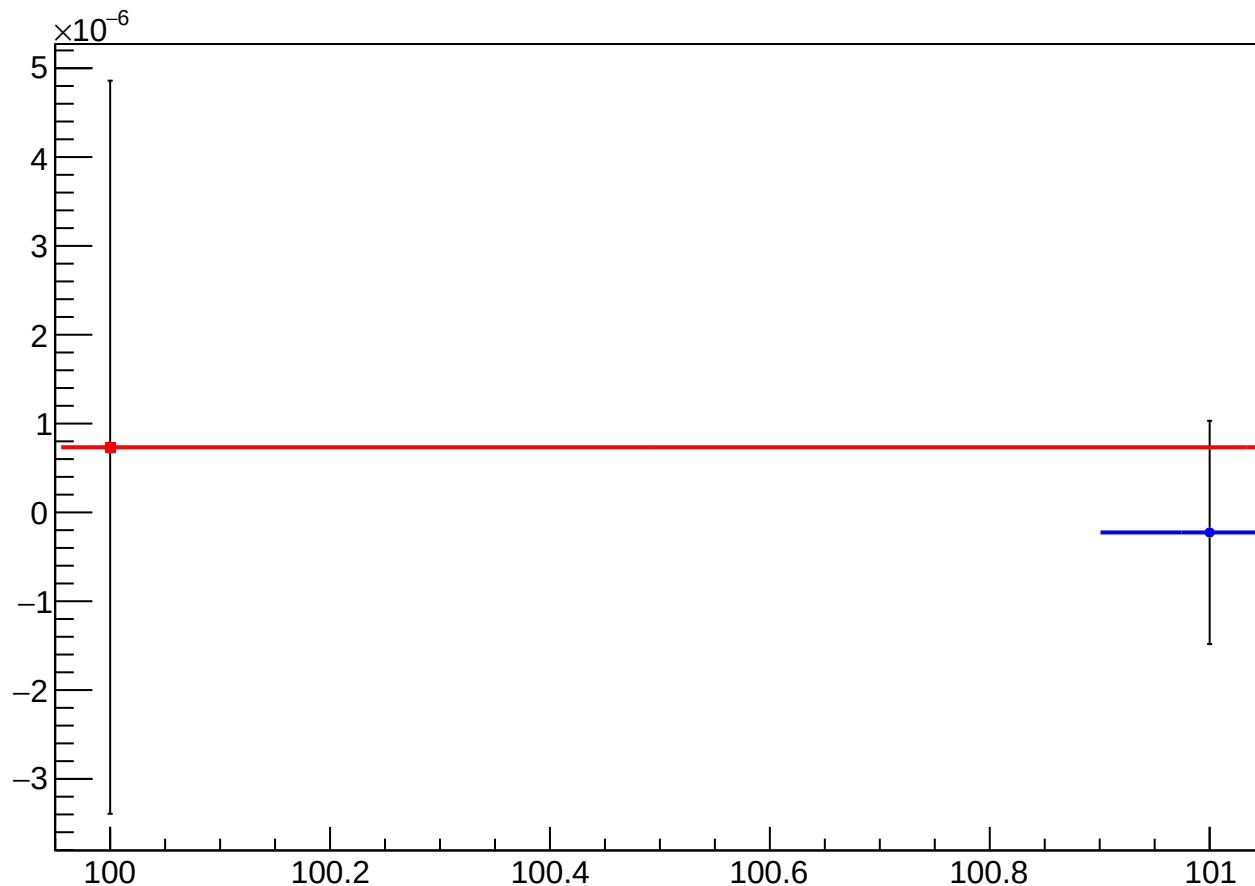
Right: 65.180+/-0.056  $\chi^2/\text{NDF}$ : 9260.1/1

In: 63.839+/-0.057  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 65.180+/-0.056  $\chi^2/\text{NDF}$ : 9260.1/1

asym\_us\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

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

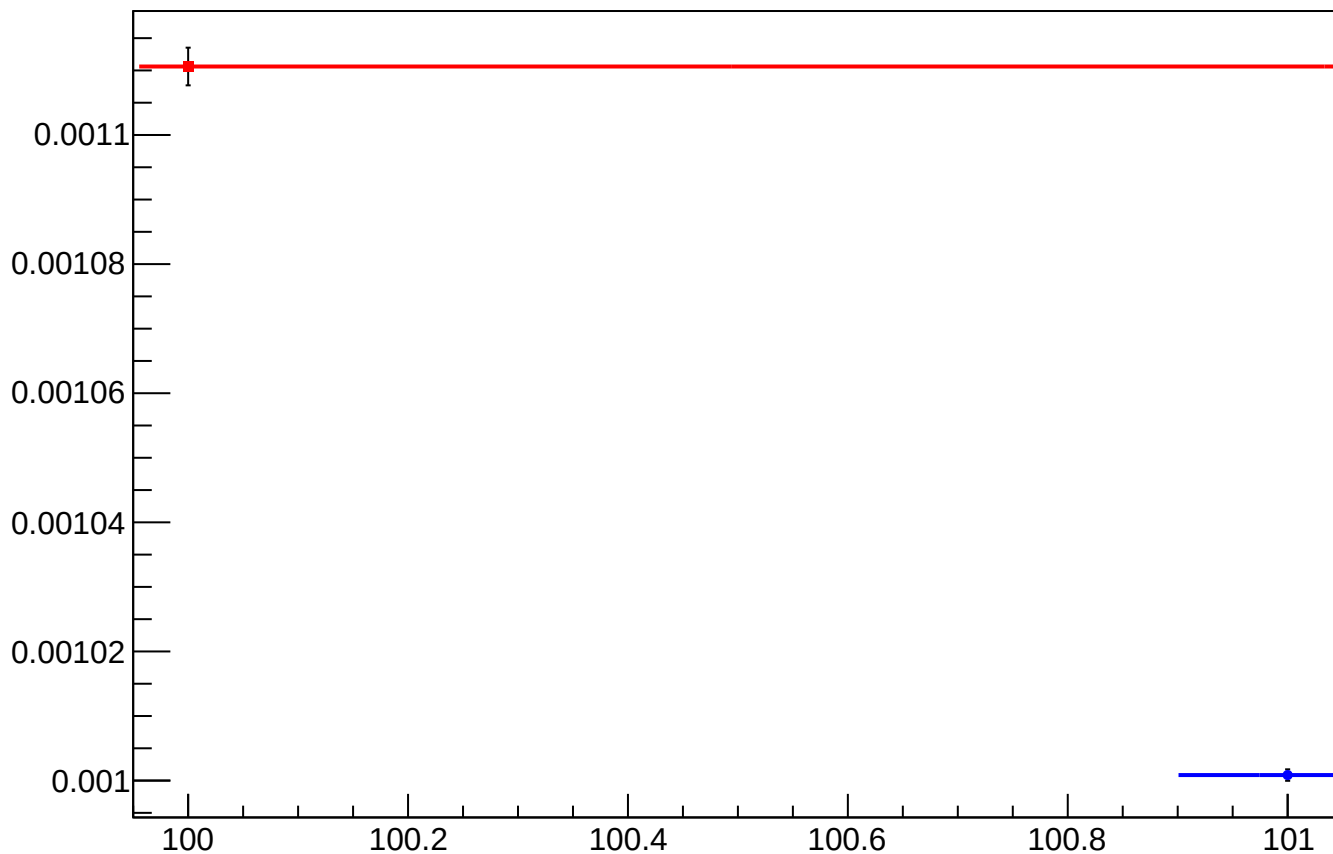
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

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

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected

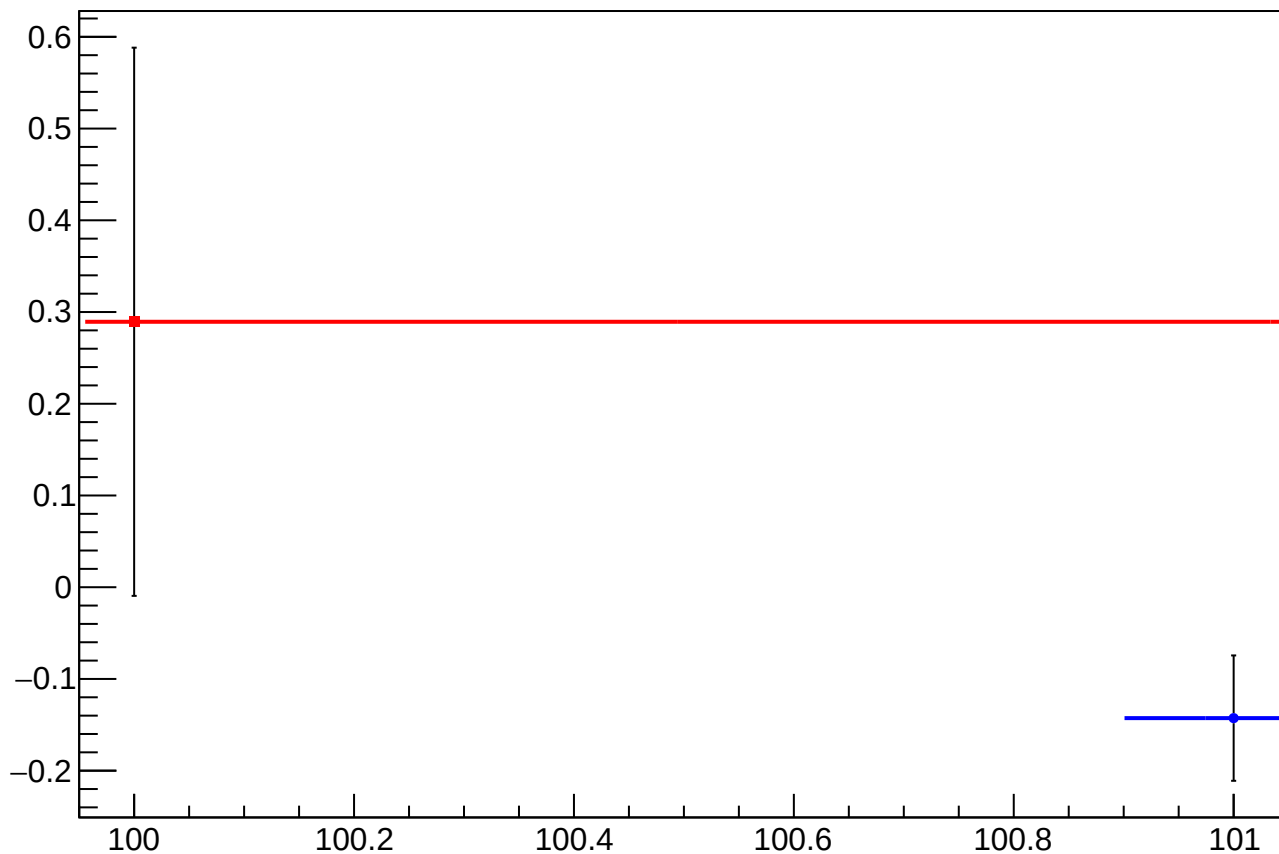


Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1294.9/1  
 In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 1294.9/1



asym\_us\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.143 \pm 0.068$   $\chi^2/\text{NDF}: 0.0/0$

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

Right Out:  $0.289 \pm 0.299$   $\chi^2/\text{NDF}: 0.0/0$

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

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right:  $-0.121 \pm 0.067$   $\chi^2/\text{NDF}: 2.0/1$

In:  $-0.143 \pm 0.068$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.121 \pm 0.067$   $\chi^2/\text{NDF}: 2.0/1$

asym\_us\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 52.955+/-0.048  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 79.510+/-0.211  $\chi^2/\text{NDF}$ : 0.0/0

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

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

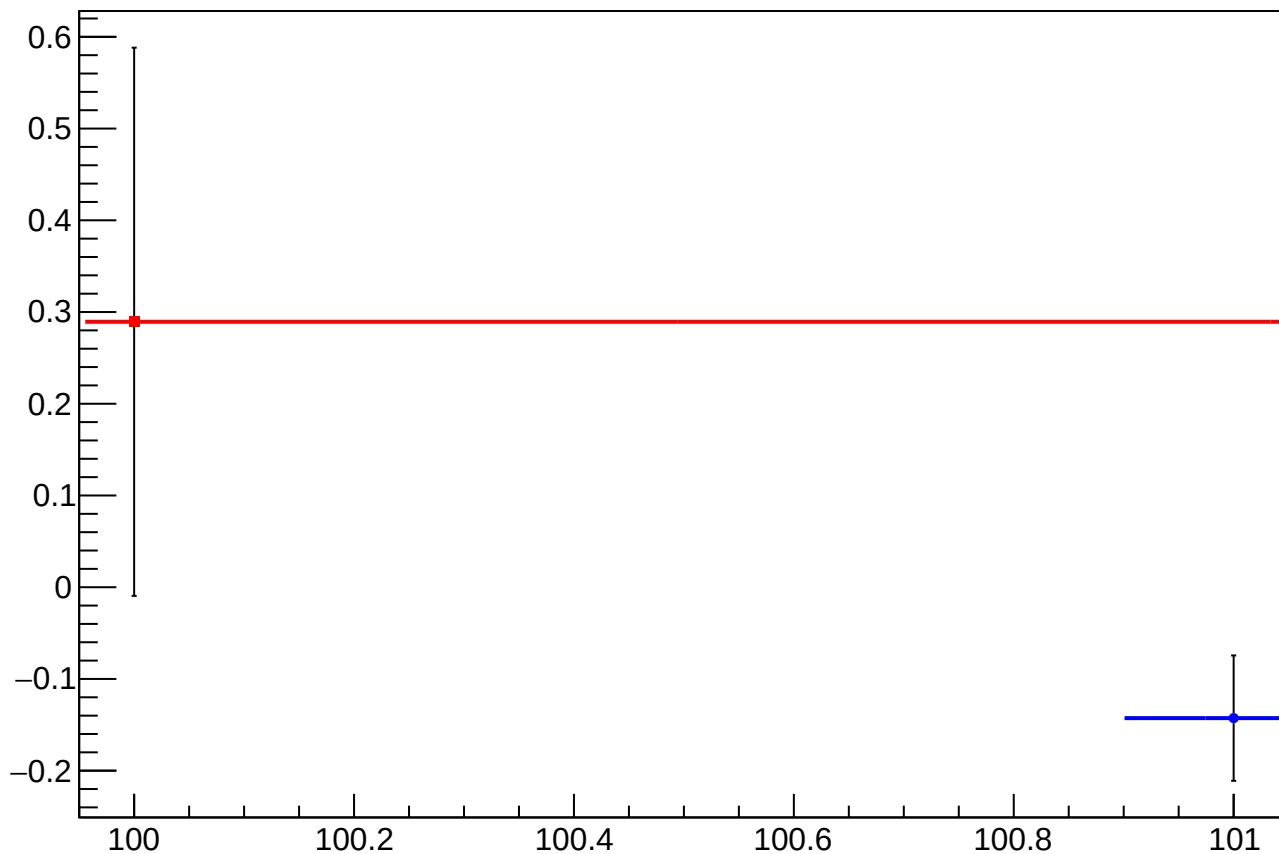
Right: 54.275+/-0.047  $\chi^2/\text{NDF}$ : 15009.8/1

In: 52.955+/-0.048  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 54.275+/-0.047  $\chi^2/\text{NDF}$ : 15009.8/1

asym\_us\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.143+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.289+/-0.299  $\chi^2/\text{NDF}$ : 0.0/0

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

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

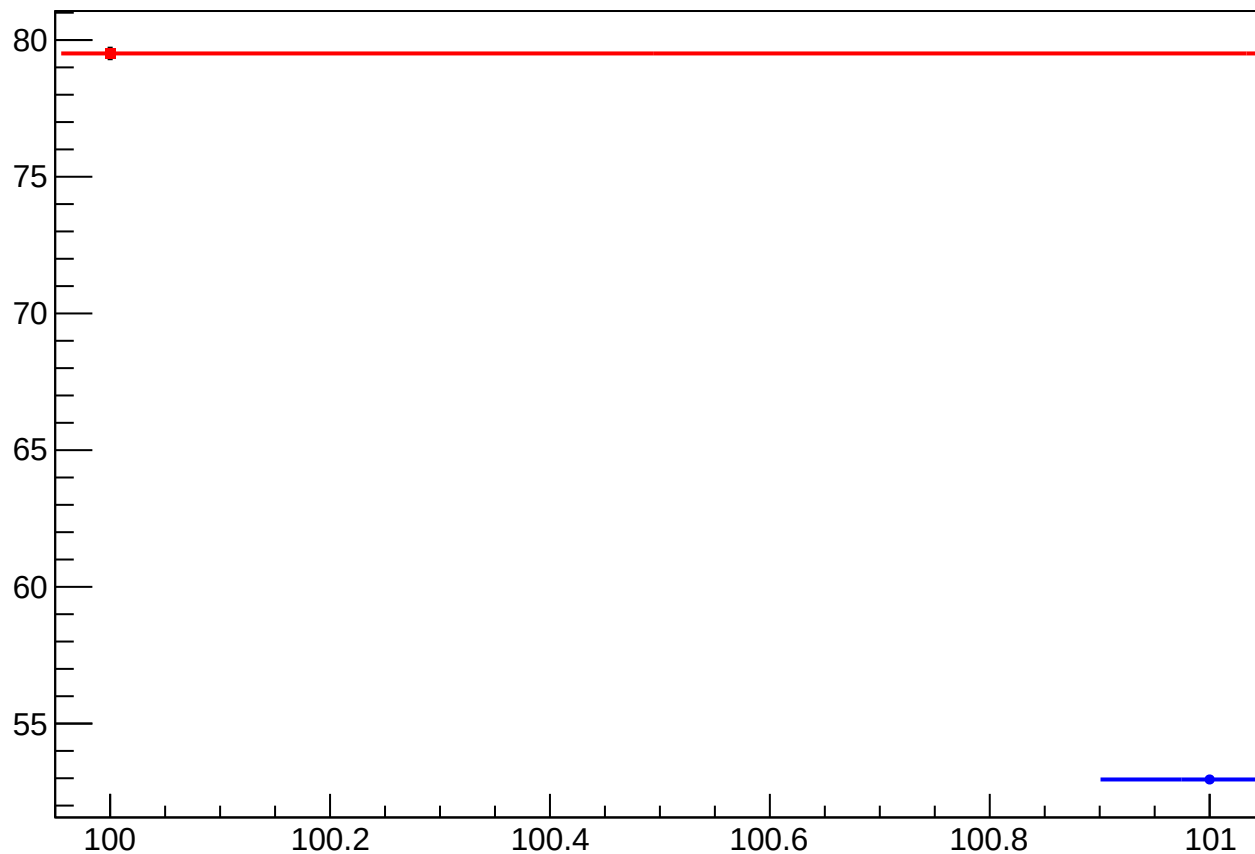
Right: -0.121+/-0.067  $\chi^2/\text{NDF}$ : 2.0/1

In: -0.143+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.121+/-0.067  $\chi^2/\text{NDF}$ : 2.0/1

asym\_us\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 52.955+/-0.048  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 79.510+/-0.211  $\chi^2/\text{NDF}$ : 0.0/0

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

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

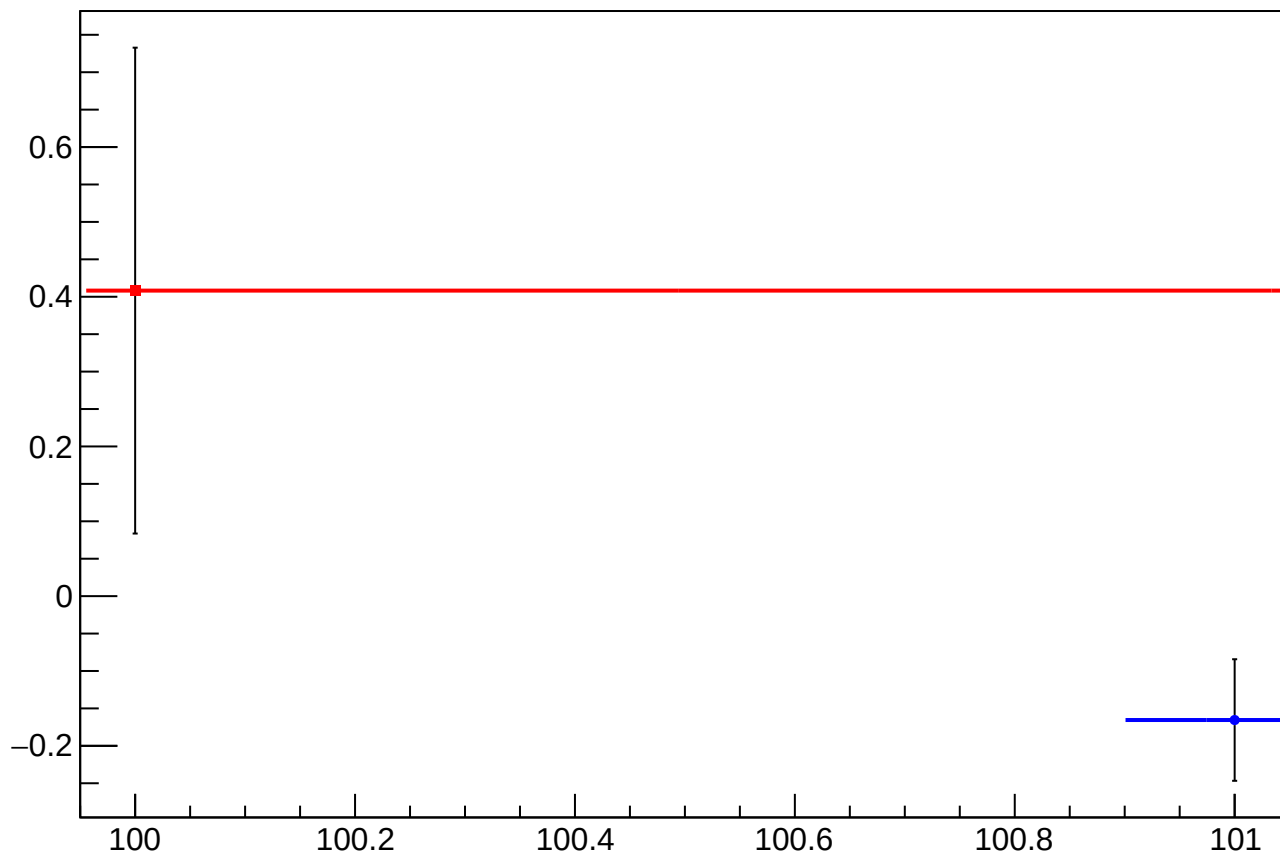
Right: 54.275+/-0.047  $\chi^2/\text{NDF}$ : 15009.8/1

In: 52.955+/-0.048  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 54.275+/-0.047  $\chi^2/\text{NDF}$ : 15009.8/1

asym\_us\_avg\_eigen\_dit\_vs\_overload\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.166+/-0.081  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.408+/-0.325  $\chi^2/\text{NDF}$ : 0.0/0

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

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

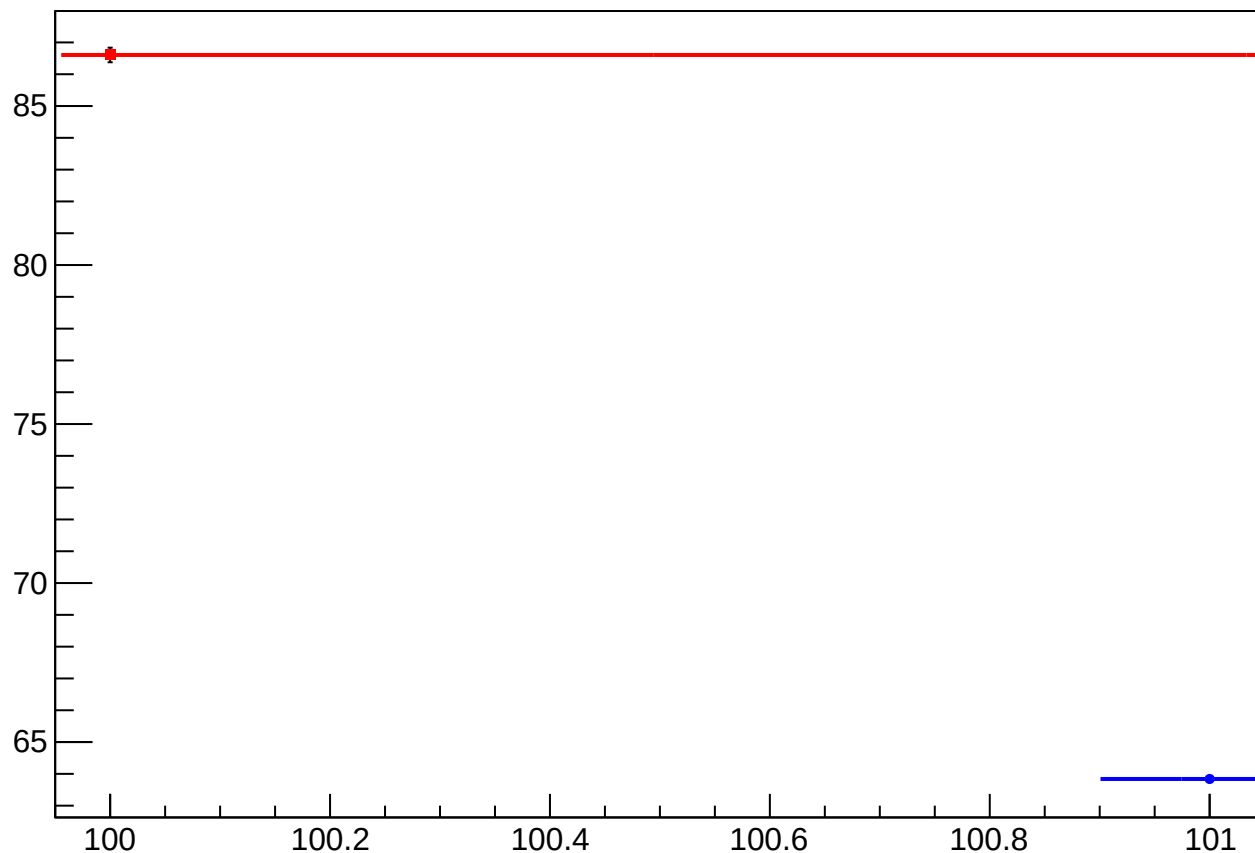
Right: -0.132+/-0.079  $\chi^2/\text{NDF}$ : 2.9/1

In: -0.166+/-0.081  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.132+/-0.079  $\chi^2/\text{NDF}$ : 2.9/1

asym\_us\_avg\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 63.839 $\pm$ 0.057  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 86.605 $\pm$ 0.230  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

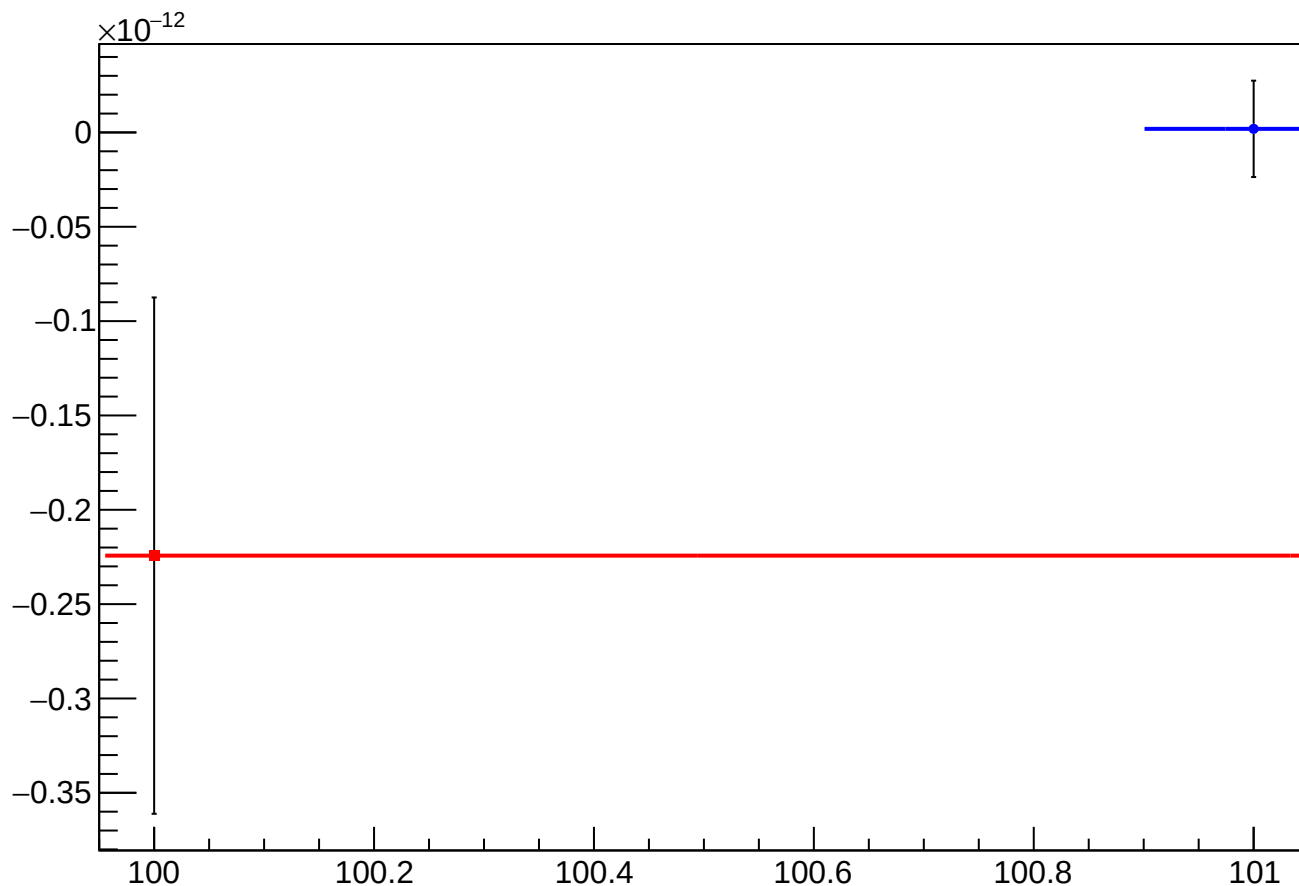
Right: 65.180 $\pm$ 0.056  $\chi^2/\text{NDF}$ : 9260.0/1

In: 63.839 $\pm$ 0.057  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.180 $\pm$ 0.056  $\chi^2/\text{NDF}$ : 9260.0/1

asym\_us\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

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

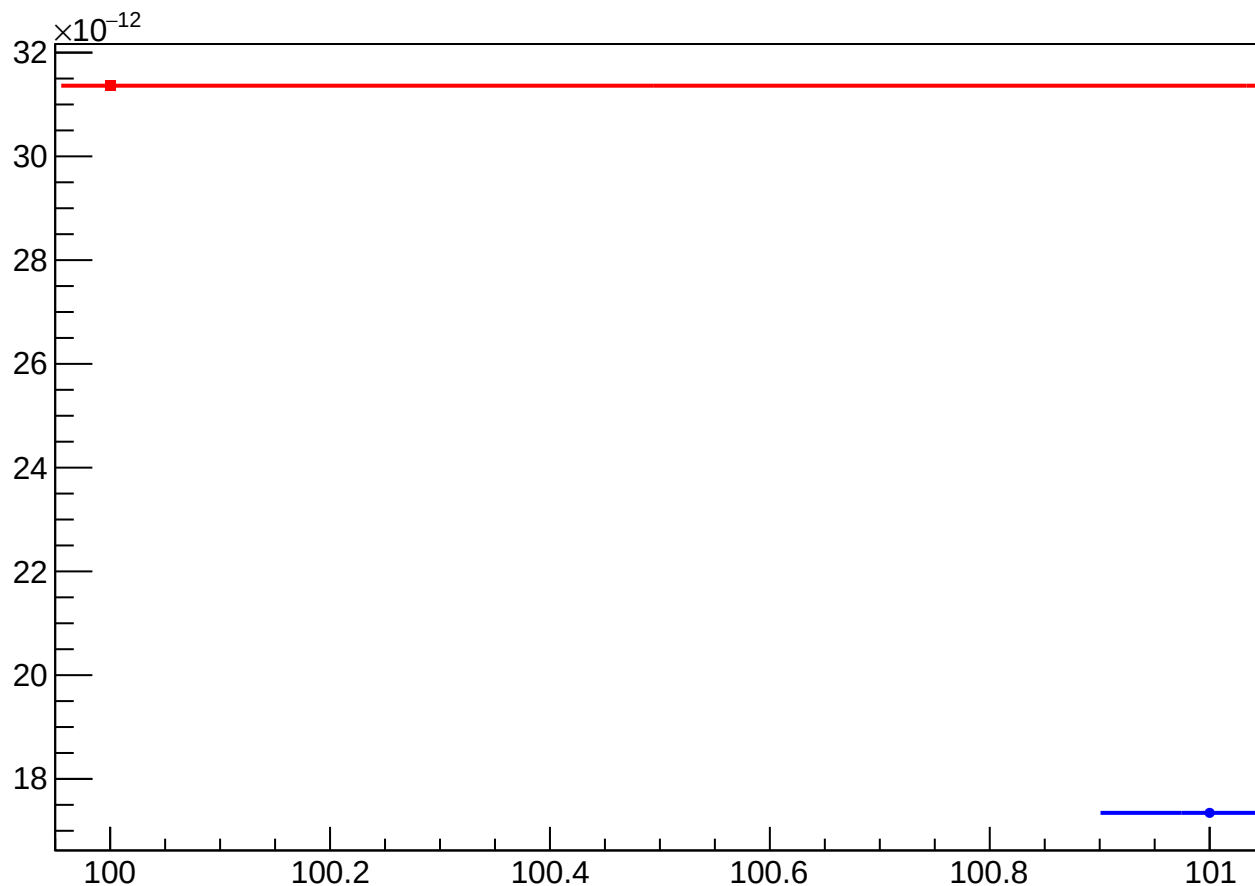
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.6/1

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

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.6/1

asym\_us\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20279.1/1

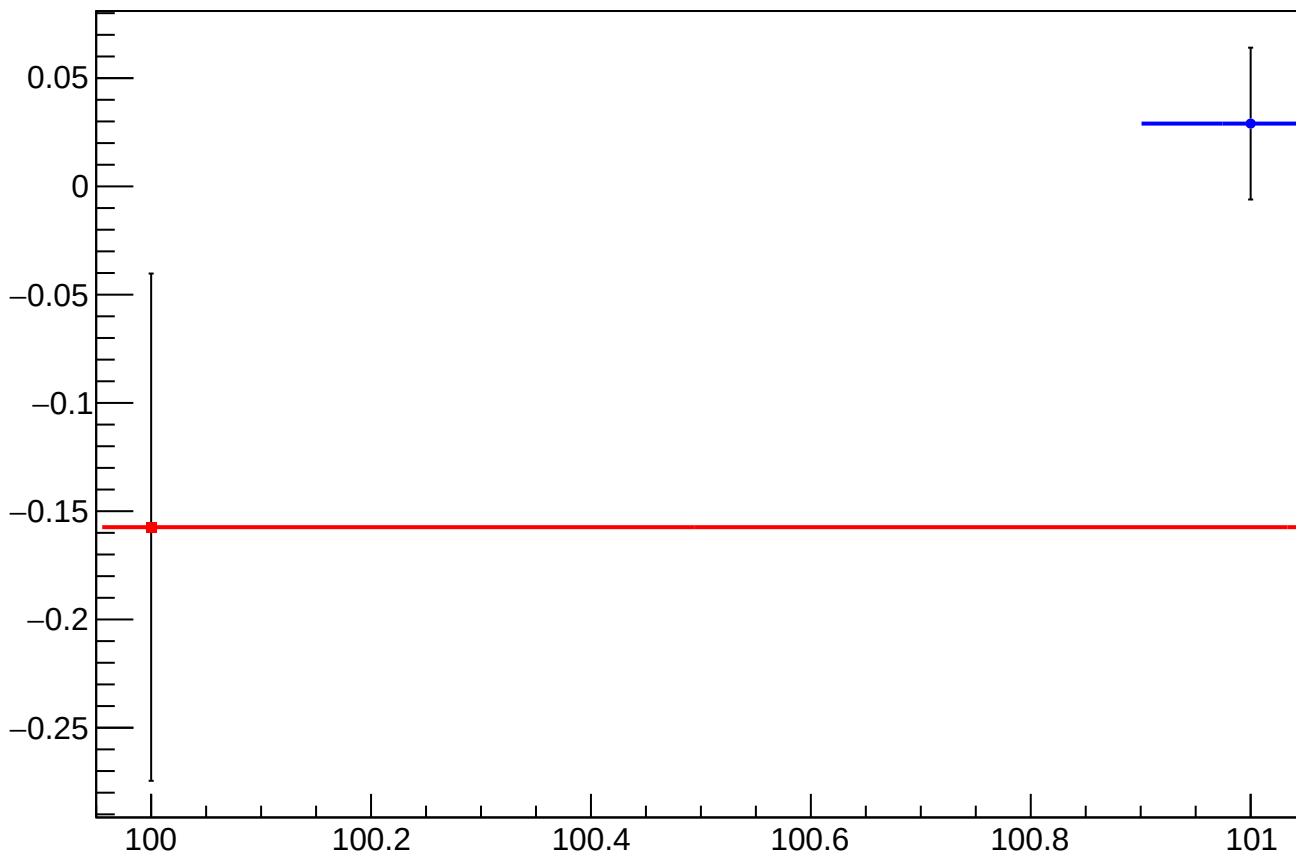
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20279.1/1



asym\_us\_avg\_overload\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

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

Right Out: -0.157 $\pm$ 0.117  $\chi^2$ /NDF: 0.0/0

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

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

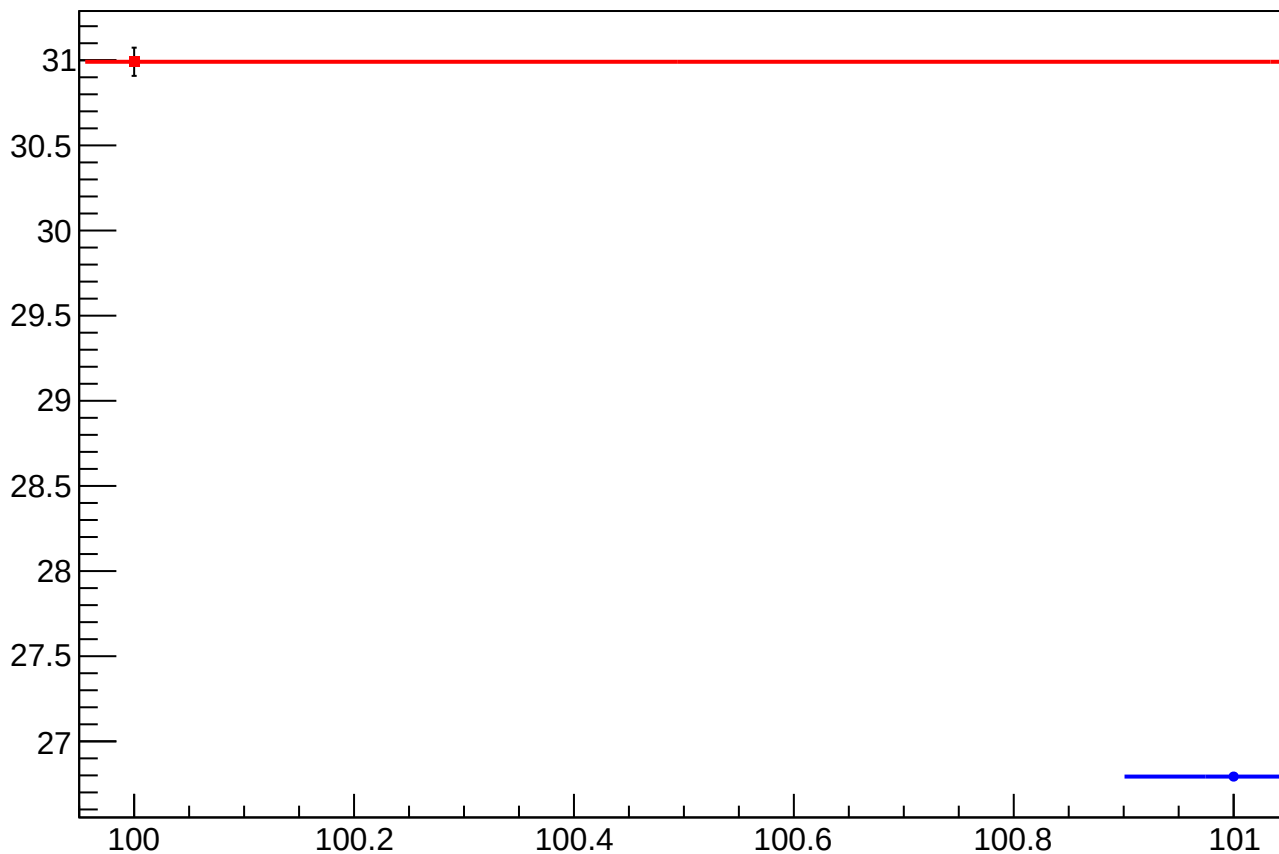
Right: 0.014 $\pm$ 0.034  $\chi^2$ /NDF: 2.3/1

In: 0.029 $\pm$ 0.035  $\chi^2$ /NDF:0.0/0

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

All: 0.014 $\pm$ 0.034  $\chi^2$ /NDF: 2.3/1

asym\_us\_avg\_overload\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 26.793+/-0.025  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 30.991+/-0.083  $\chi^2/\text{NDF}$ : 0.0/0

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

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

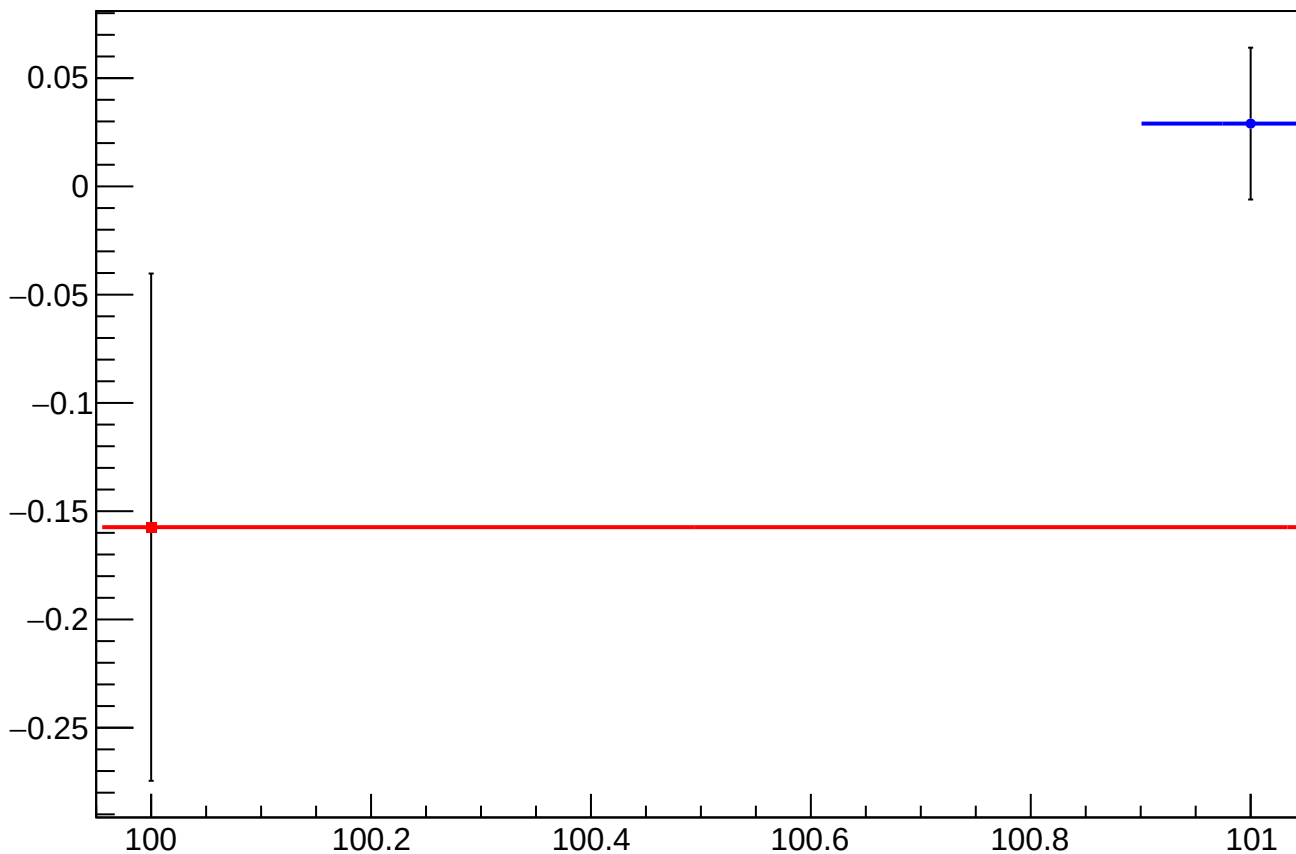
Right: 27.138+/-0.024  $\chi^2/\text{NDF}$ : 2357.8/1

In: 26.793+/-0.025  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 27.138+/-0.024  $\chi^2/\text{NDF}$ : 2357.8/1

asym\_us\_avg\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.029 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

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

Right Out: -0.157 $\pm$ 0.117  $\chi^2$ /NDF: 0.0/0

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

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

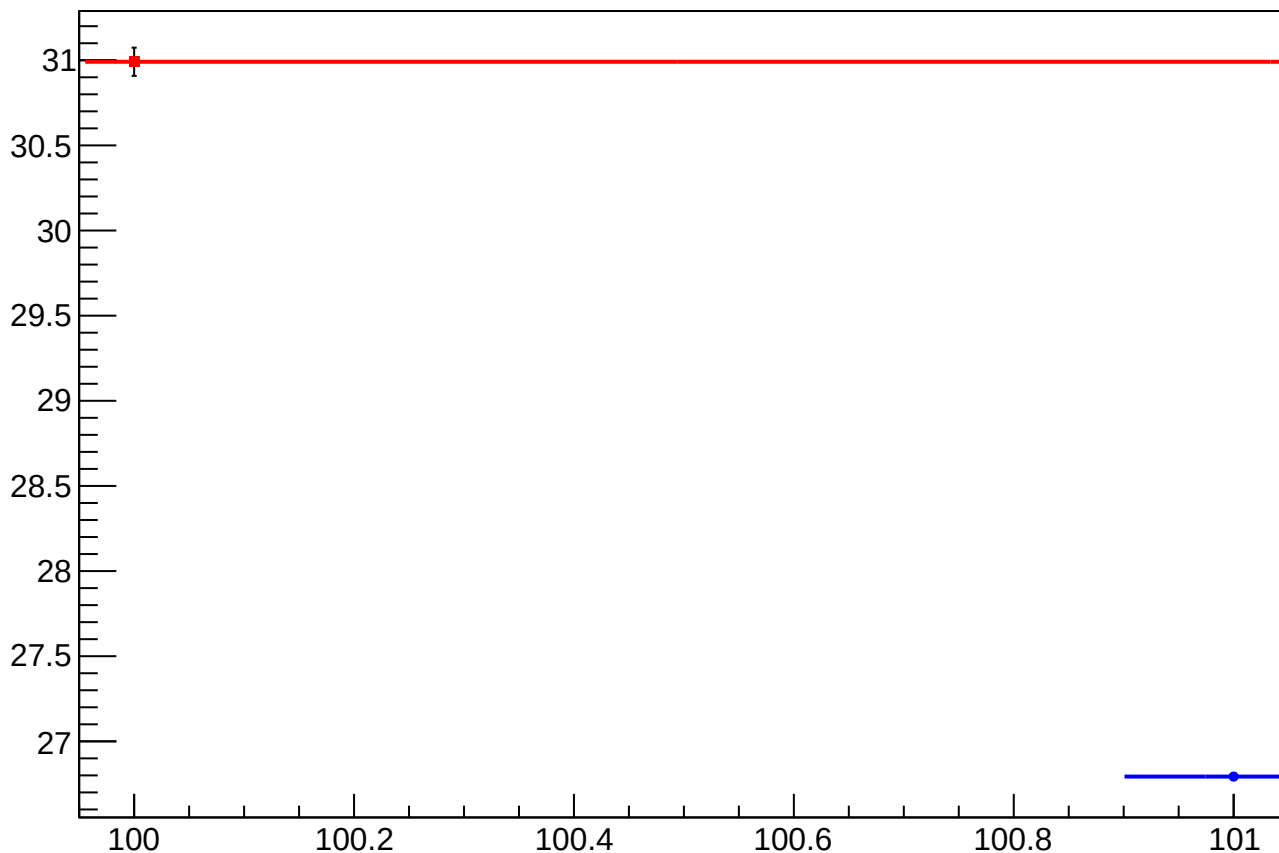
Right: 0.014 $\pm$ 0.034  $\chi^2$ /NDF: 2.3/1

In: 0.029 $\pm$ 0.035  $\chi^2$ /NDF:0.0/0

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

All: 0.014 $\pm$ 0.034  $\chi^2$ /NDF: 2.3/1

asym\_us\_avg\_overload\_cor\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 26.793+/-0.025  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 30.991+/-0.083  $\chi^2/\text{NDF}$ : 0.0/0

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

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

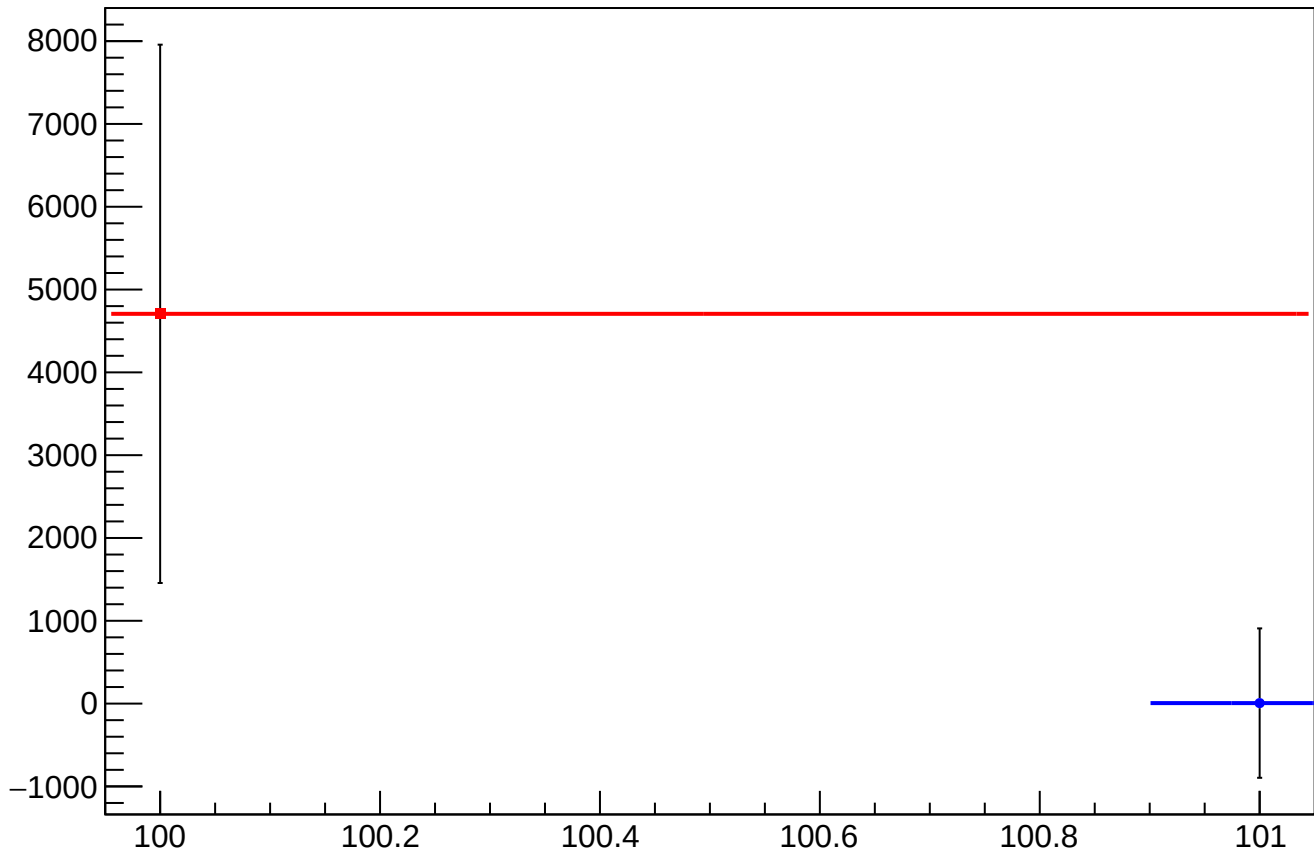
Right: 27.138+/-0.024  $\chi^2/\text{NDF}$ : 2357.8/1

In: 26.793+/-0.025  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 27.138+/-0.024  $\chi^2/\text{NDF}$ : 2357.8/1

# reg\_asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: 6.019+/-902.083  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4706.818+/-3250.463  $\chi^2/\text{NDF}$ : 0.0/0

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

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

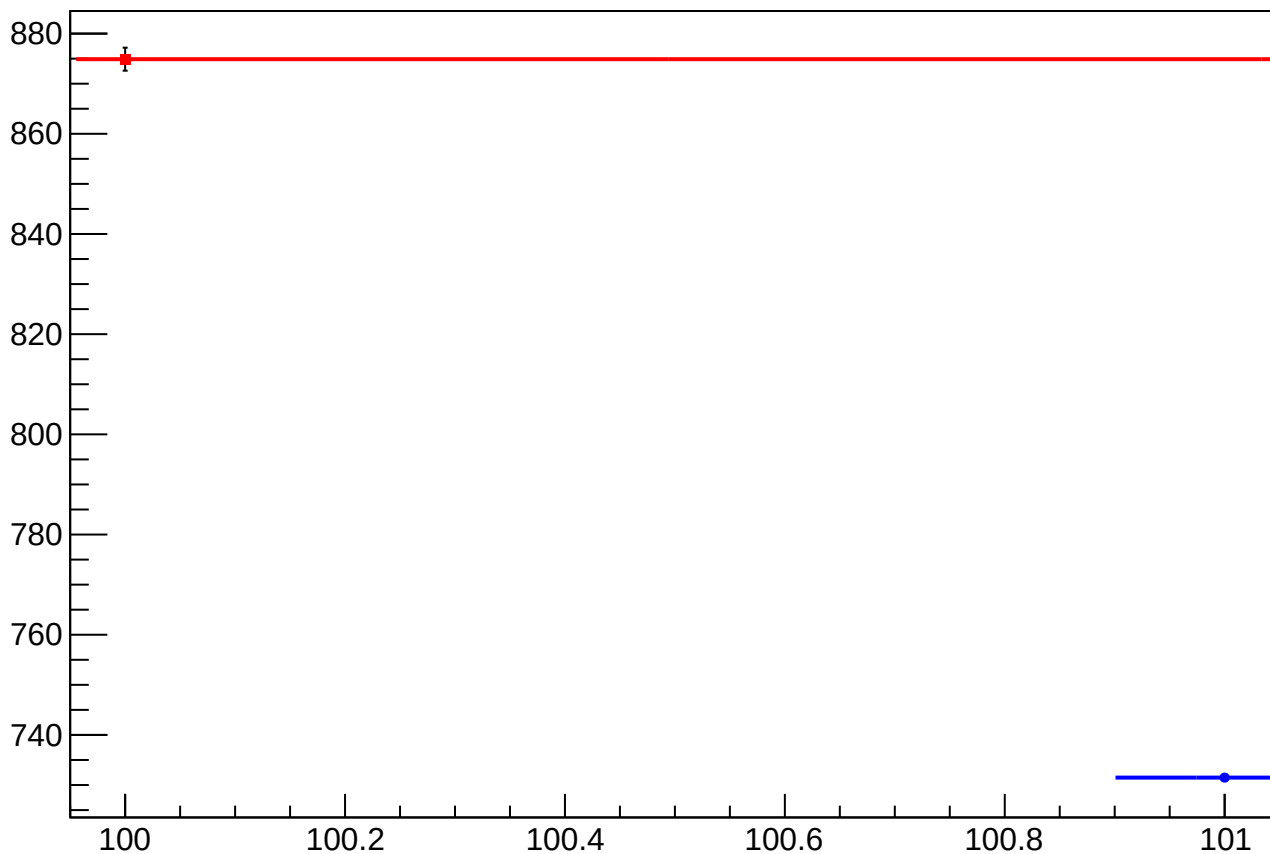
Right: 342.183+/-869.230  $\chi^2/\text{NDF}$ : 1.9/1

In: 6.019+/-902.083  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 342.183+/-869.230  $\chi^2/\text{NDF}$ : 1.9/1

# reg\_asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 731.482 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

Right Out: 874.893 $\pm$ 2.298  $\chi^2$ /NDF: 0.0/0

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

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

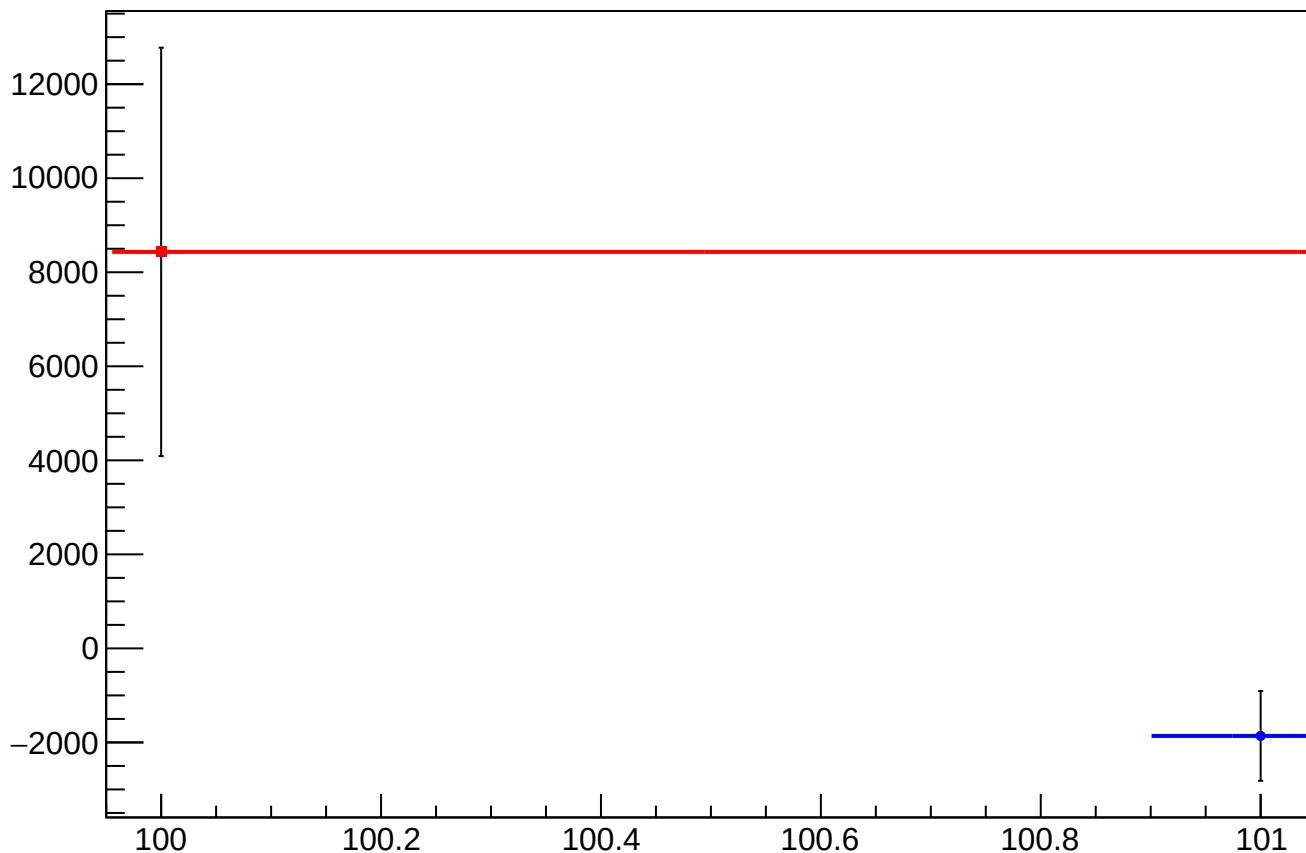
Right: 741.738 $\pm$ 0.615  $\chi^2$ /NDF: 3614.8/1

In: 731.482 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

All: 741.738 $\pm$ 0.615  $\chi^2$ /NDF: 3614.8/1

asym\_us\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1861.487+/-954.560  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8432.821+/-4343.646  $\chi^2/\text{NDF}$ : 0.0/0

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

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

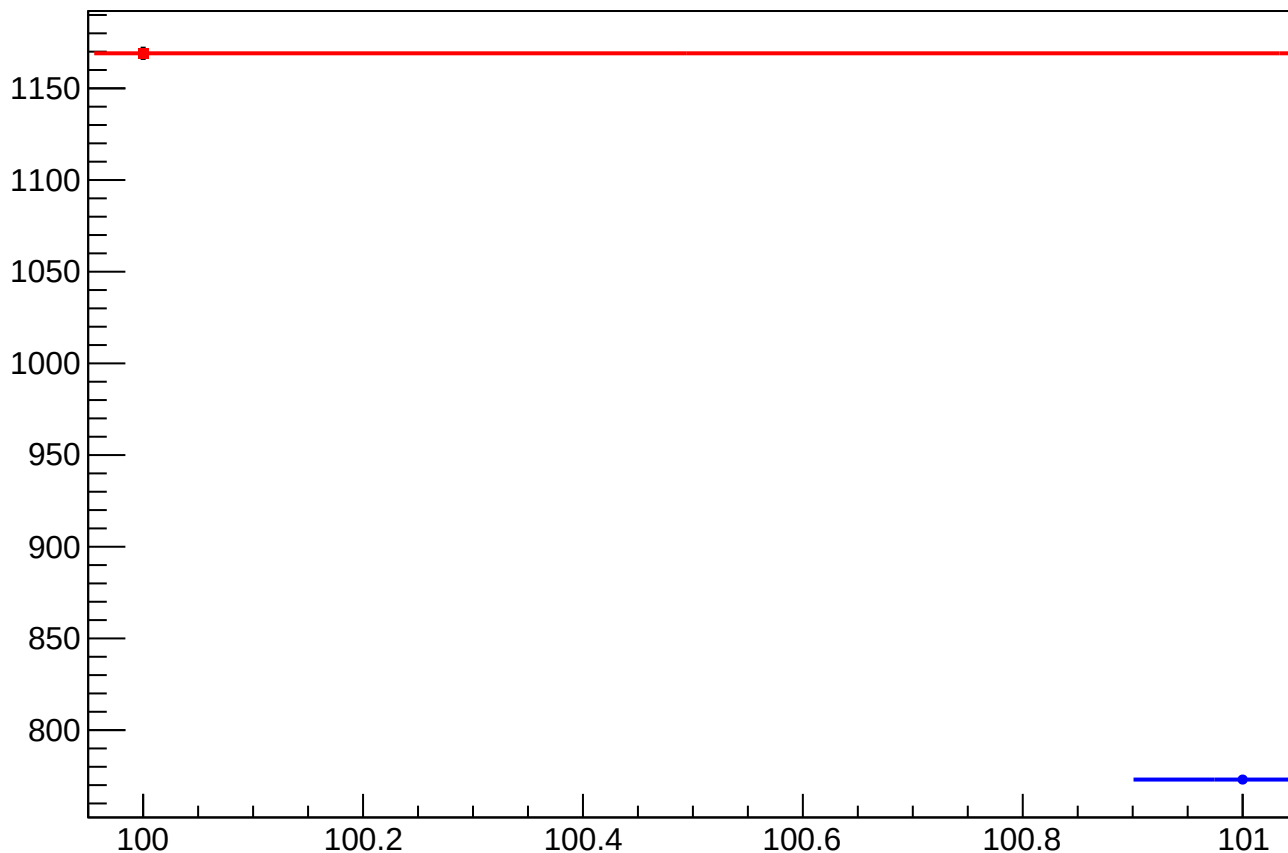
Right: -1387.233+/-932.312  $\chi^2/\text{NDF}$ : 5.4/1

In: -1861.487+/-954.560  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -1387.233+/-932.312  $\chi^2/\text{NDF}$ : 5.4/1

asym\_us\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 773.032 $\pm$ 0.675  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1169.106 $\pm$ 3.071  $\chi^2$ /NDF: 0.0/0

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

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

Right: 791.279 $\pm$ 0.659  $\chi^2$ /NDF: 15863.2/1

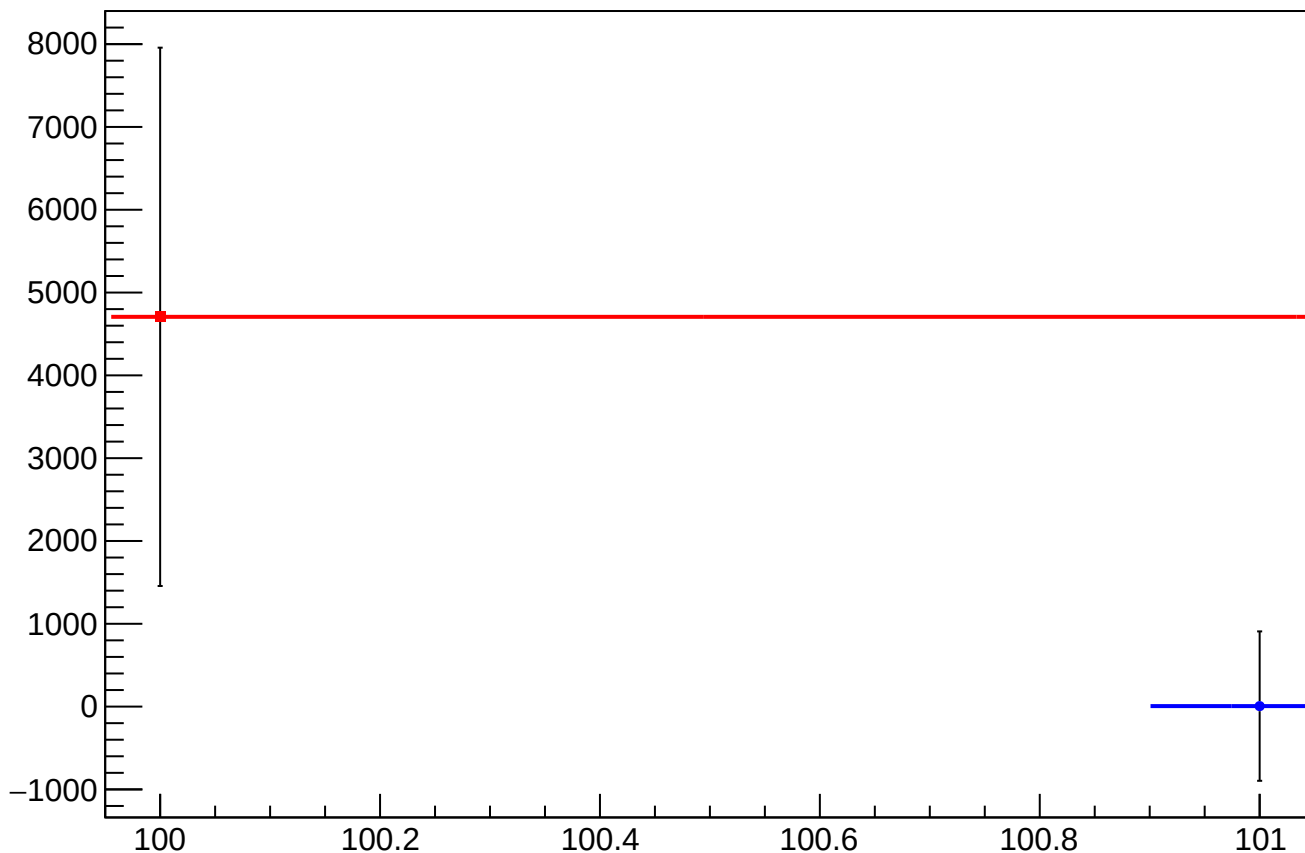
In: 773.032 $\pm$ 0.675  $\chi^2$ /NDF: 0.0/0

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

All: 791.279 $\pm$ 0.659  $\chi^2$ /NDF: 15863.2/1



# cor\_asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: 6.019+/-902.083  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4706.818+/-3250.463  $\chi^2/\text{NDF}$ : 0.0/0

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

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

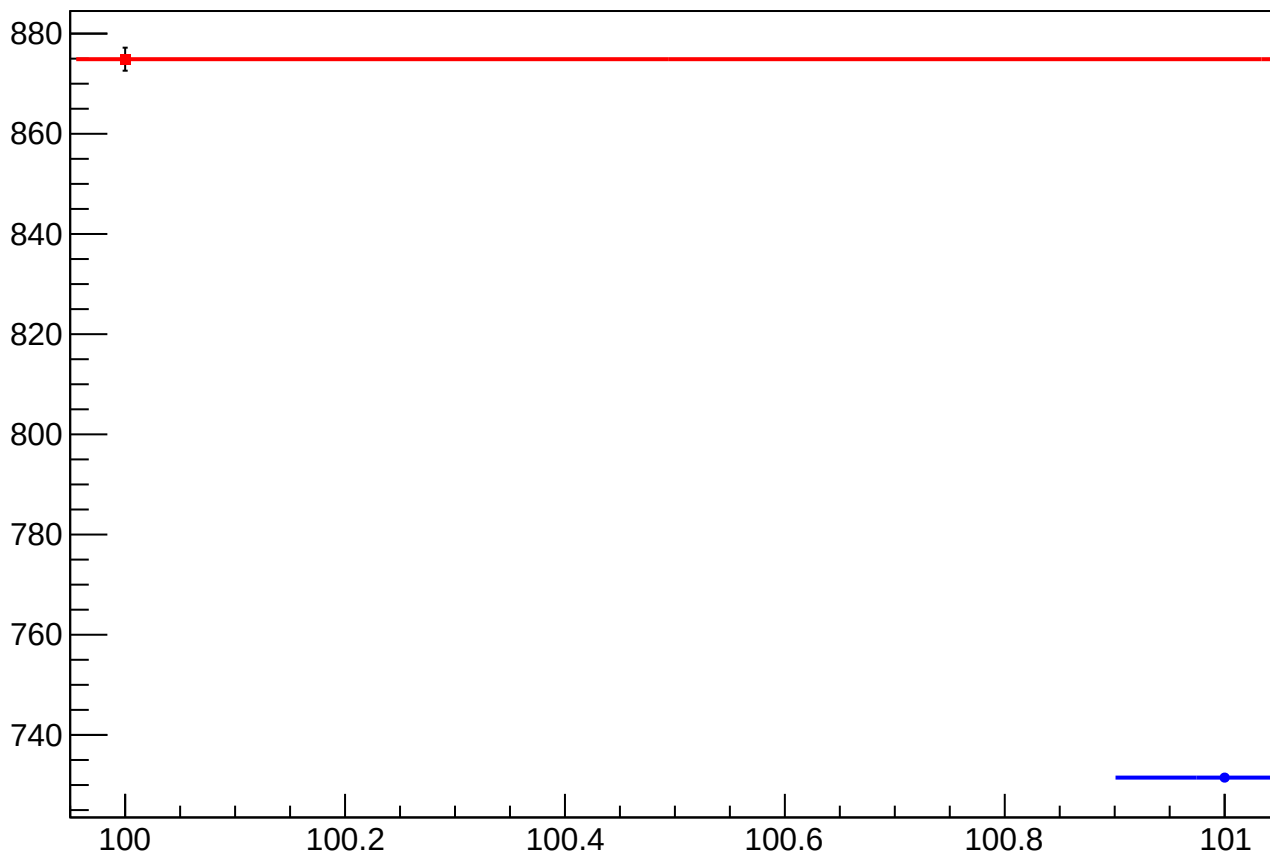
Right: 342.183+/-869.230  $\chi^2/\text{NDF}$ : 1.9/1

In: 6.019+/-902.083  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 342.183+/-869.230  $\chi^2/\text{NDF}$ : 1.9/1

# cor\_asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 731.482 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

Right Out: 874.893 $\pm$ 2.298  $\chi^2$ /NDF: 0.0/0

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

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

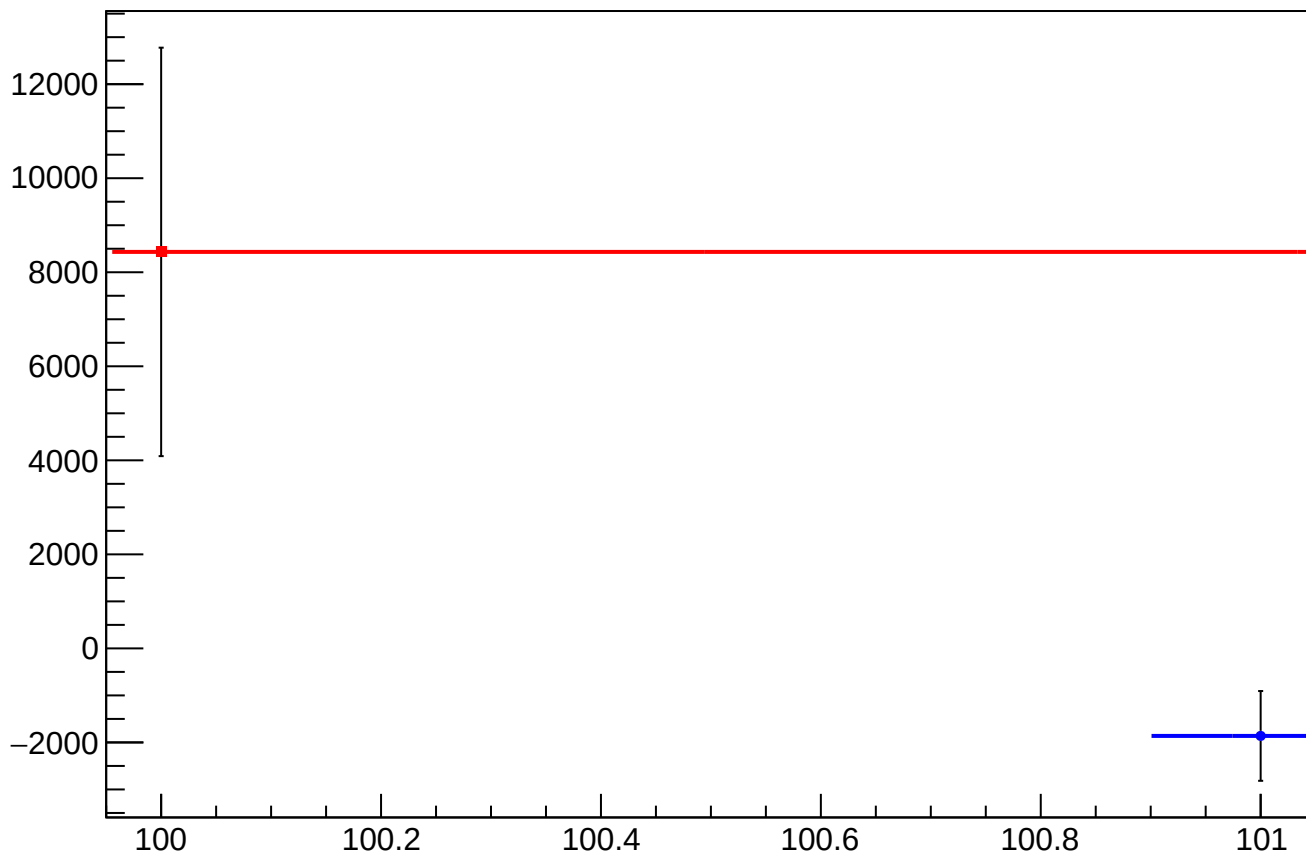
Right: 741.738 $\pm$ 0.615  $\chi^2$ /NDF: 3614.8/1

In: 731.482 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

All: 741.738 $\pm$ 0.615  $\chi^2$ /NDF: 3614.8/1

asym\_us\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1861.487+/-954.560  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8432.821+/-4343.646  $\chi^2/\text{NDF}$ : 0.0/0

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

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

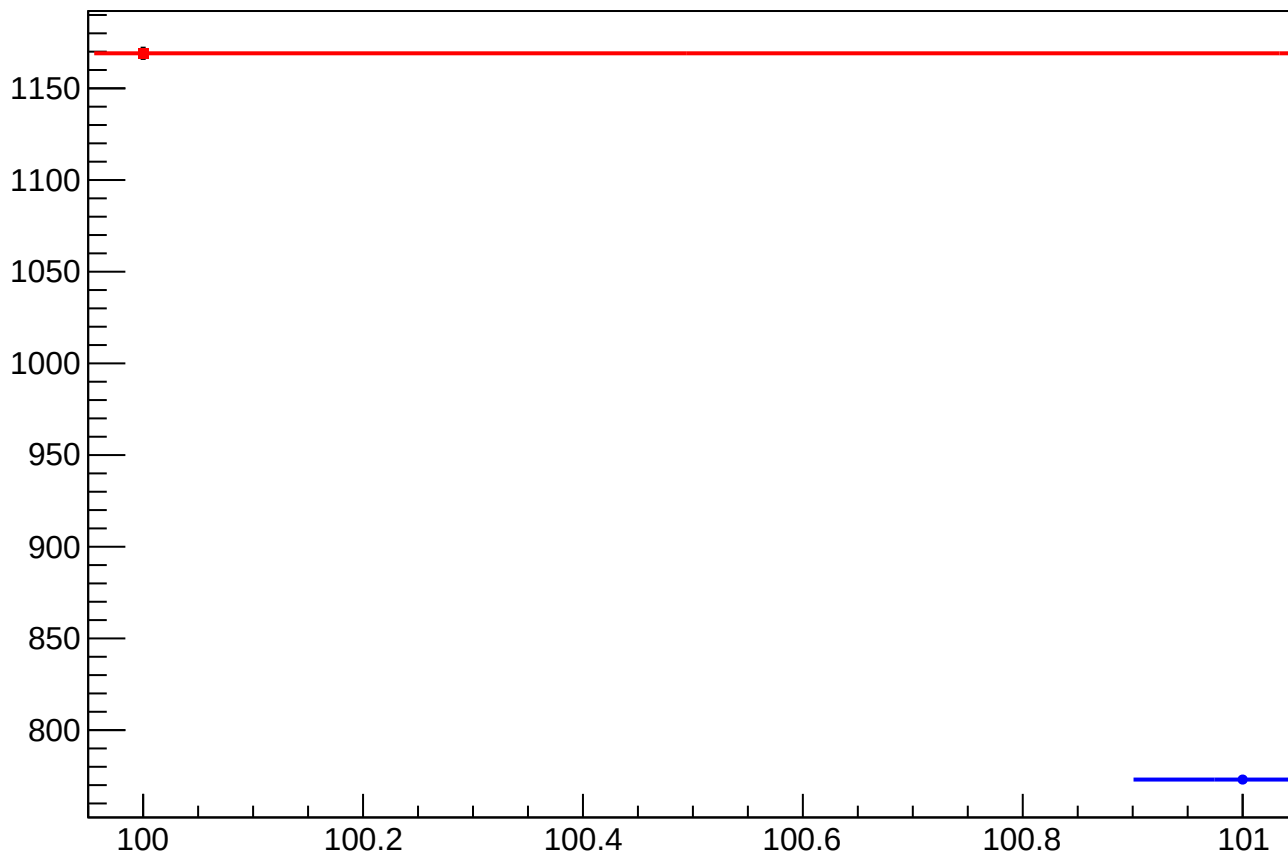
Right: -1387.233+/-932.312  $\chi^2/\text{NDF}$ : 5.4/1

In: -1861.487+/-954.560  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -1387.233+/-932.312  $\chi^2/\text{NDF}$ : 5.4/1

asym\_us\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 773.032 $\pm$ 0.675  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1169.106 $\pm$ 3.071  $\chi^2$ /NDF: 0.0/0

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

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

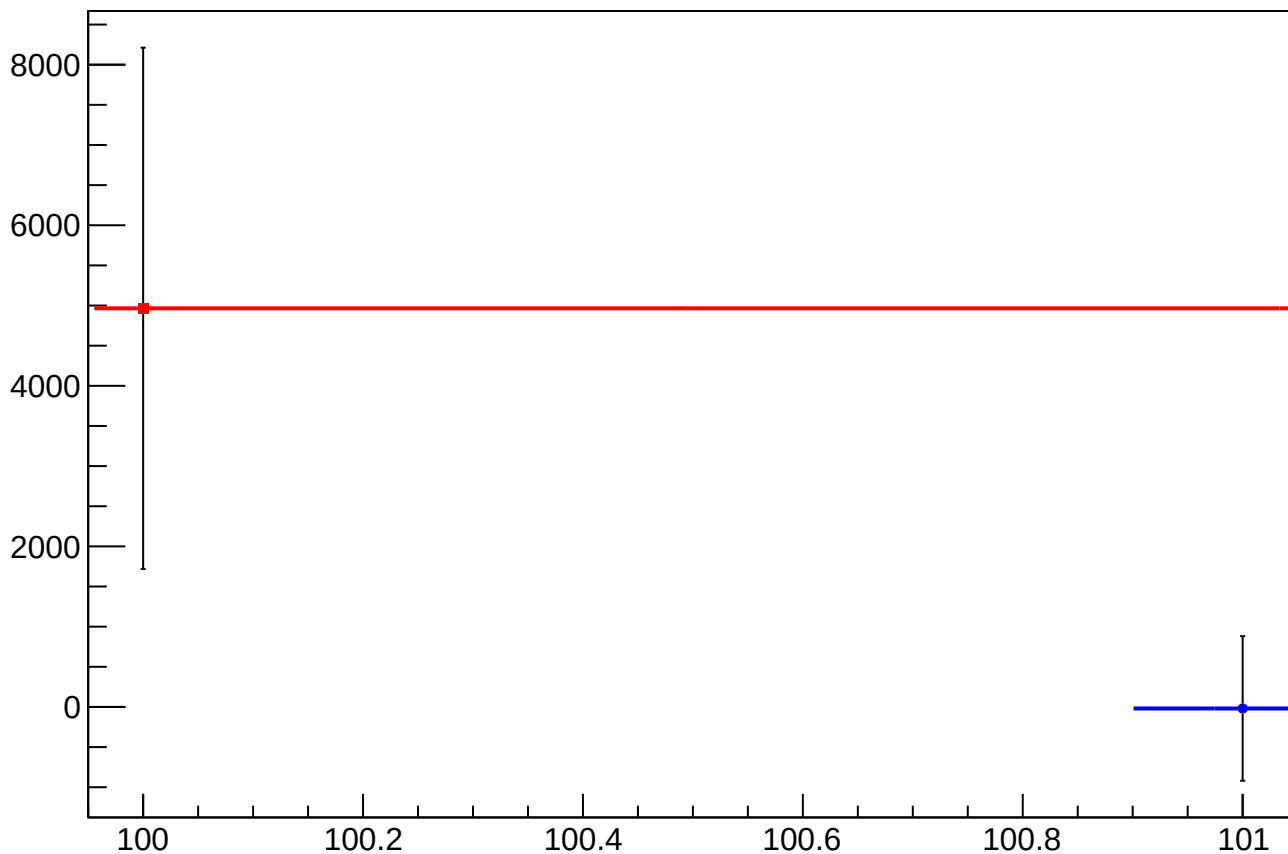
Right: 791.279 $\pm$ 0.659  $\chi^2$ /NDF: 15863.2/1

In: 773.032 $\pm$ 0.675  $\chi^2$ /NDF: 0.0/0

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

All: 791.279 $\pm$ 0.659  $\chi^2$ /NDF: 15863.2/1

overload\_cor\_asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: -19.246+/-900.794  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4965.428+/-3246.744  $\chi^2/\text{NDF}$ : 0.0/0

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

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

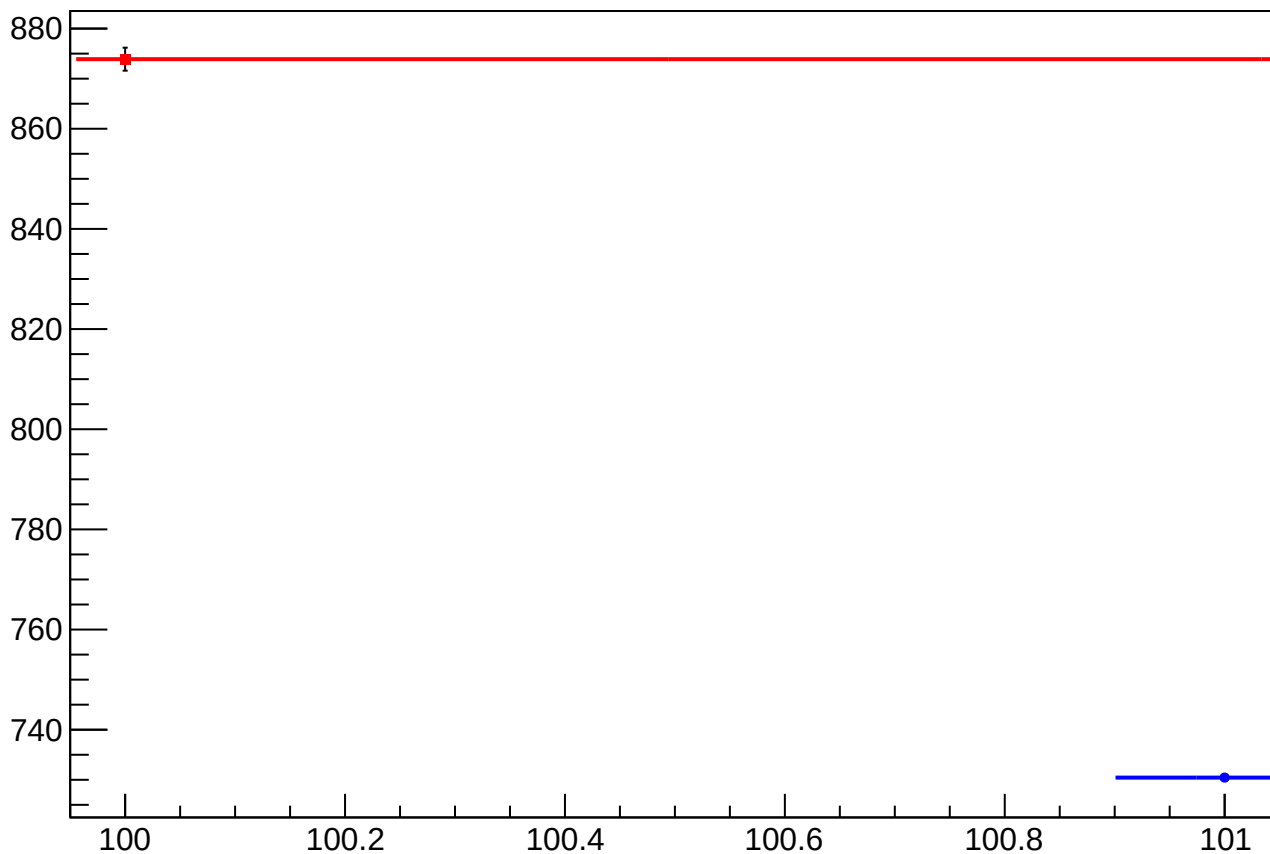
Right: 337.029+/-868.006  $\chi^2/\text{NDF}$ : 2.2/1

In: -19.246+/-900.794  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 337.029+/-868.006  $\chi^2/\text{NDF}$ : 2.2/1

overload\_cor\_asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 730.438 $\pm$ 0.637  $\chi^2$ /NDF: 0.0/0

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

Right Out: 873.893 $\pm$ 2.296  $\chi^2$ /NDF: 0.0/0

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

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

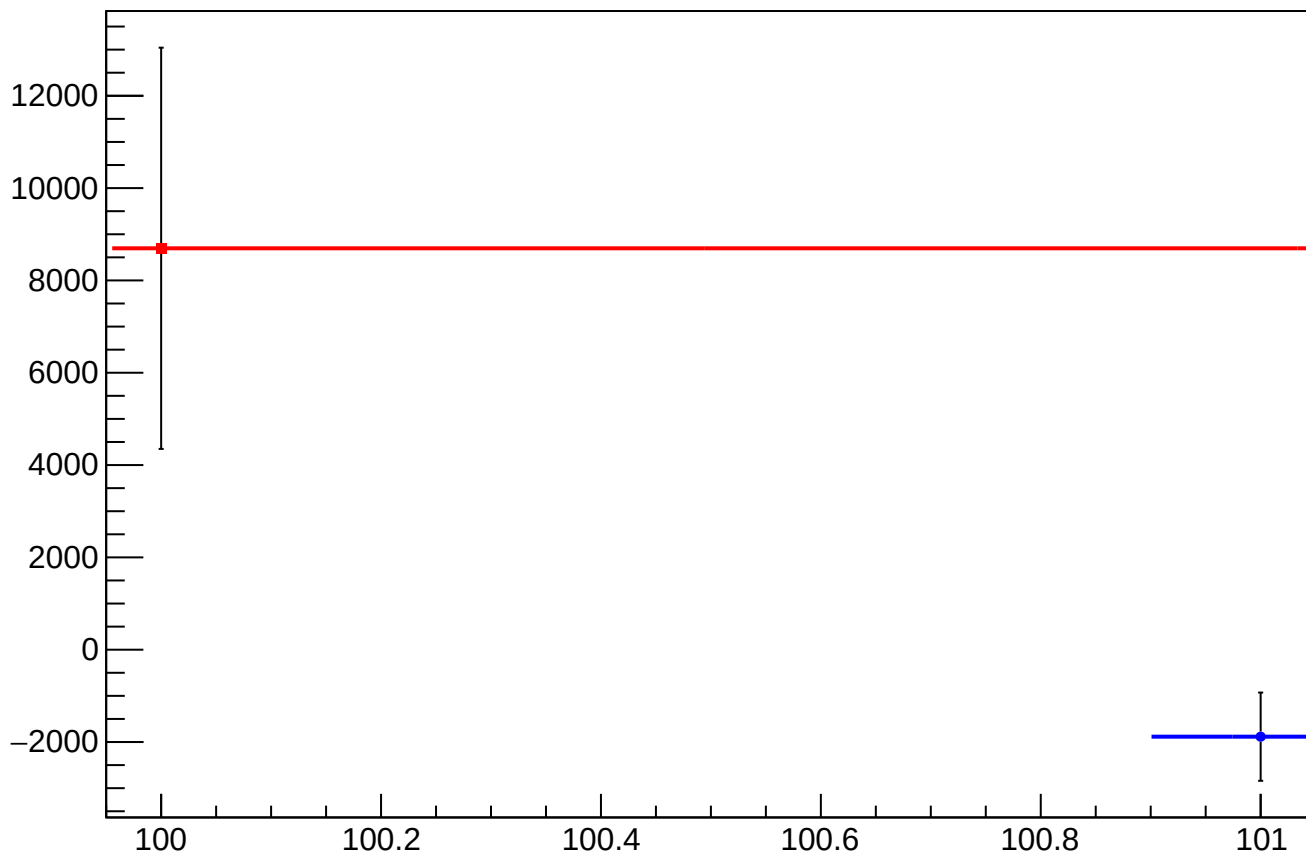
Right: 740.692 $\pm$ 0.614  $\chi^2$ /NDF: 3625.4/1

In: 730.438 $\pm$ 0.637  $\chi^2$ /NDF: 0.0/0

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

All: 740.692 $\pm$ 0.614  $\chi^2$ /NDF: 3625.4/1

asym\_us\_dd\_overload\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1884.340+/-955.807  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8695.951+/-4346.438  $\chi^2/\text{NDF}$ : 0.0/0

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

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

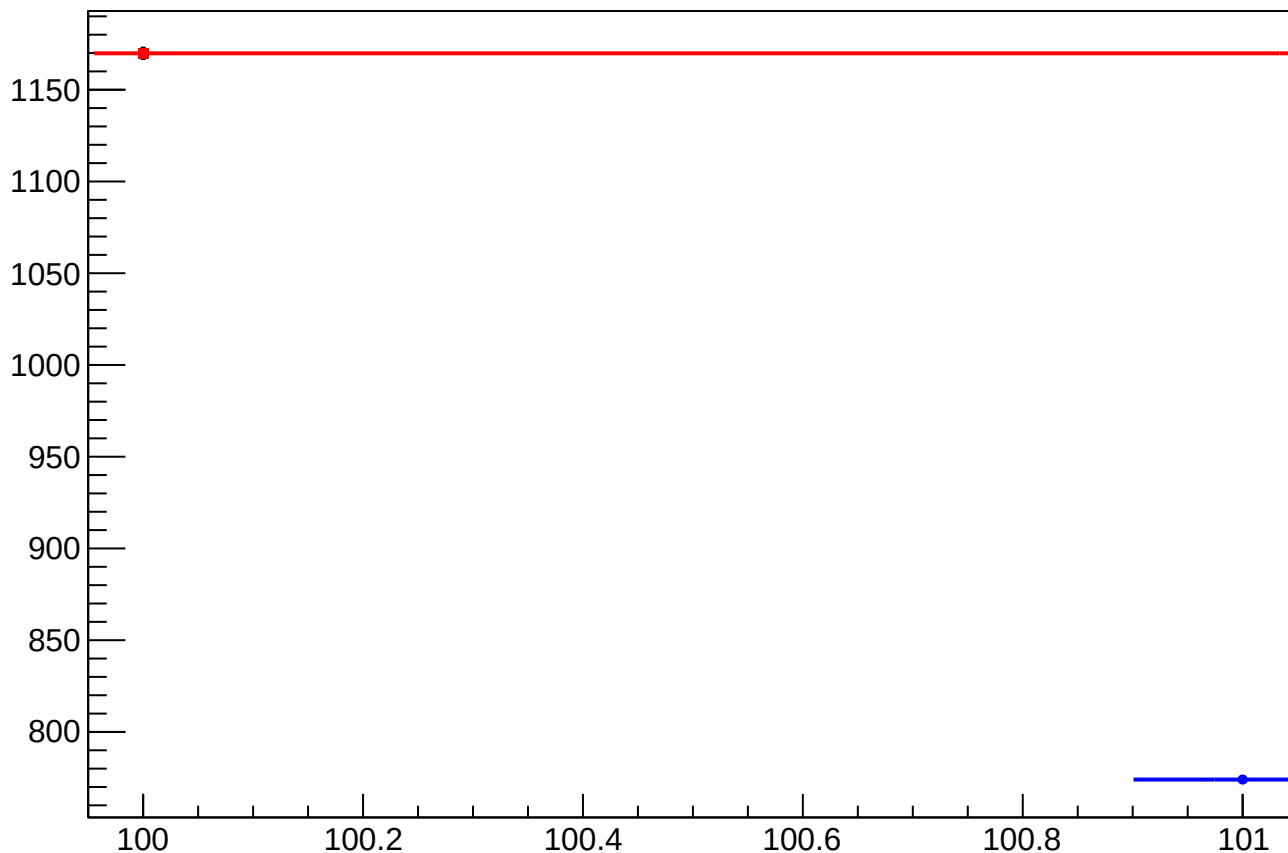
Right: -1396.293+/-933.502  $\chi^2/\text{NDF}$ : 5.7/1

In: -1884.340+/-955.807  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -1396.293+/-933.502  $\chi^2/\text{NDF}$ : 5.7/1

asym\_us\_dd\_overload\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 774.048 $\pm$ 0.676  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1169.857 $\pm$ 3.073  $\chi^2$ /NDF: 0.0/0

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

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

Right: 792.306 $\pm$ 0.660  $\chi^2$ /NDF: 15820.7/1

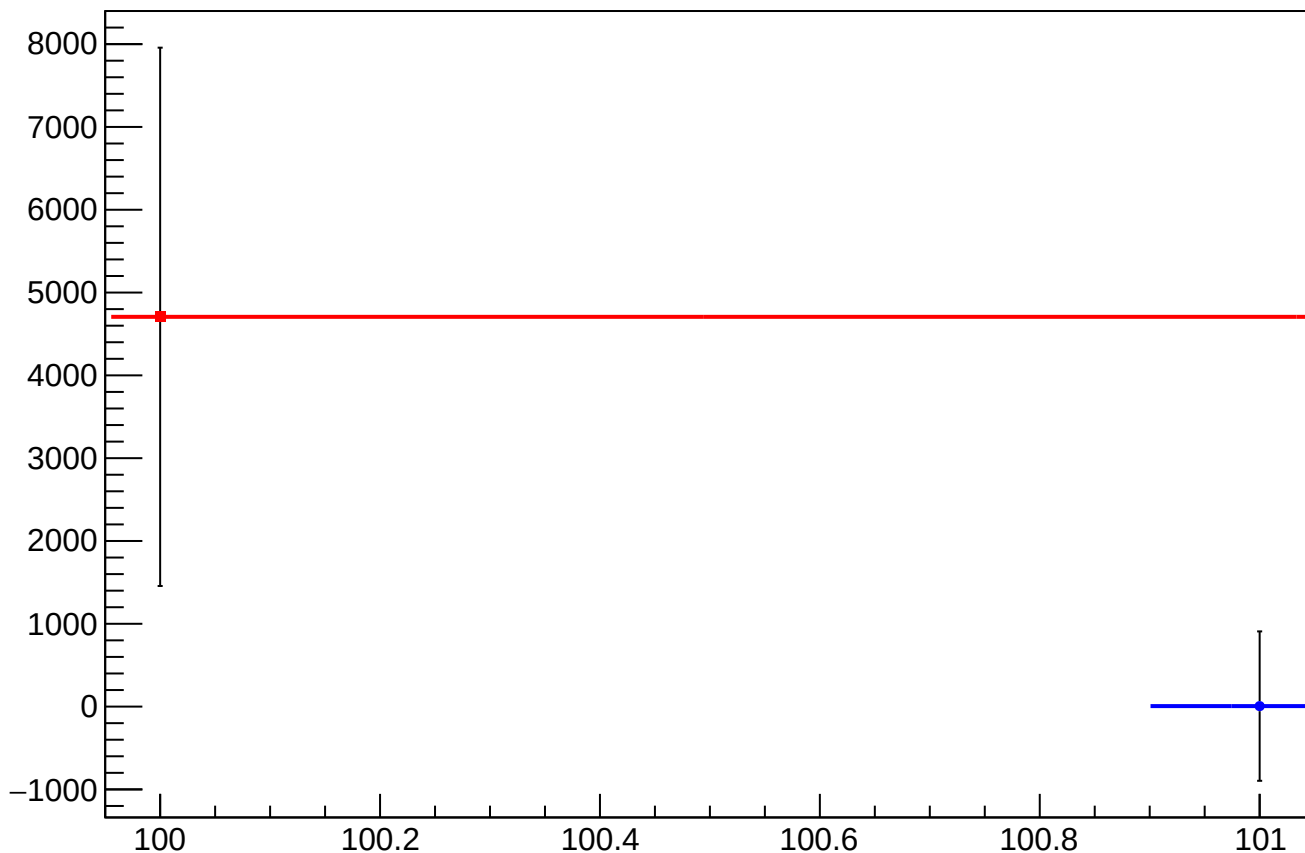
In: 774.048 $\pm$ 0.676  $\chi^2$ /NDF: 0.0/0

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

All: 792.306 $\pm$ 0.660  $\chi^2$ /NDF: 15820.7/1



eigen\_cor\_asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: 6.019+/-902.083  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 4706.818+/-3250.463  $\chi^2/\text{NDF}$ : 0.0/0

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

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

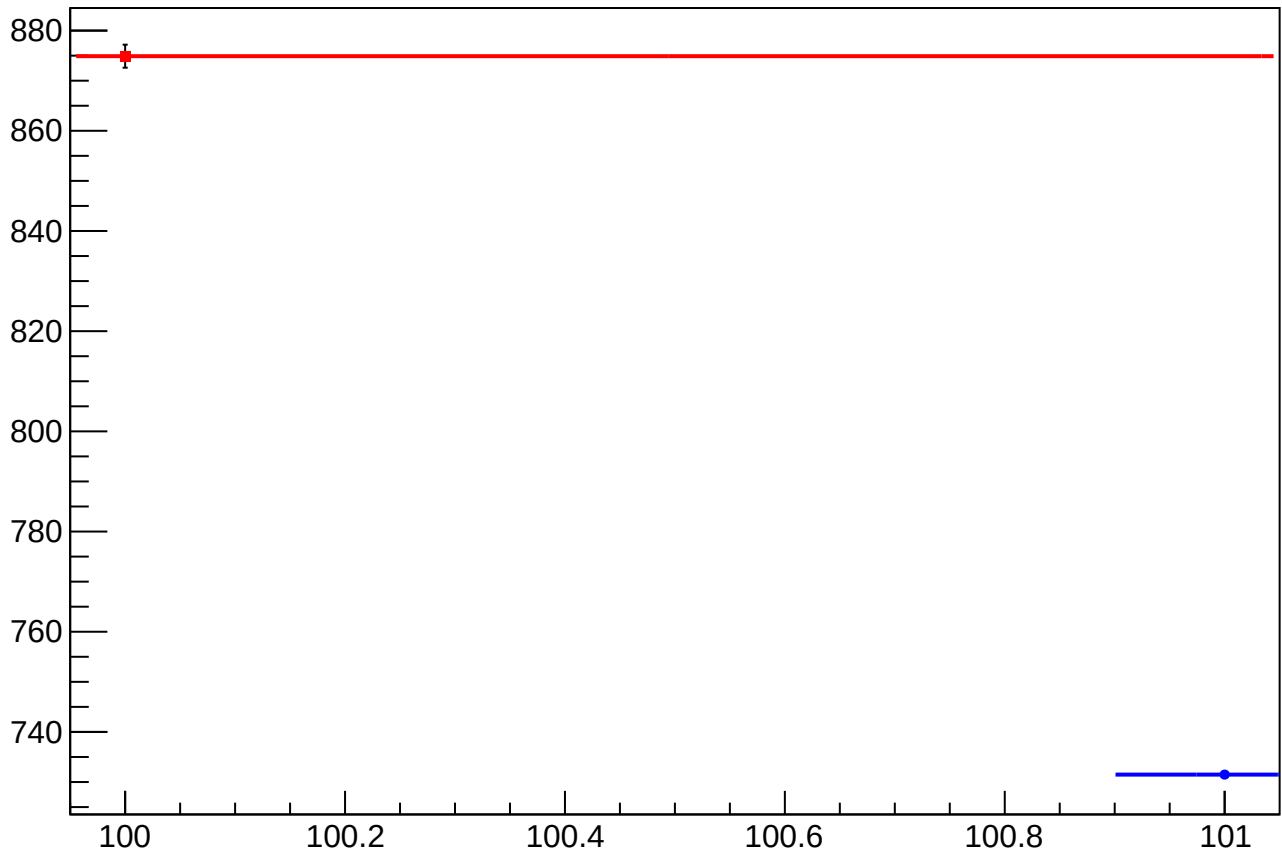
Right: 342.183+/-869.230  $\chi^2/\text{NDF}$ : 1.9/1

In: 6.019+/-902.083  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 342.183+/-869.230  $\chi^2/\text{NDF}$ : 1.9/1

eigen\_cor\_asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 731.482 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

Right Out: 874.893 $\pm$ 2.298  $\chi^2$ /NDF: 0.0/0

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

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

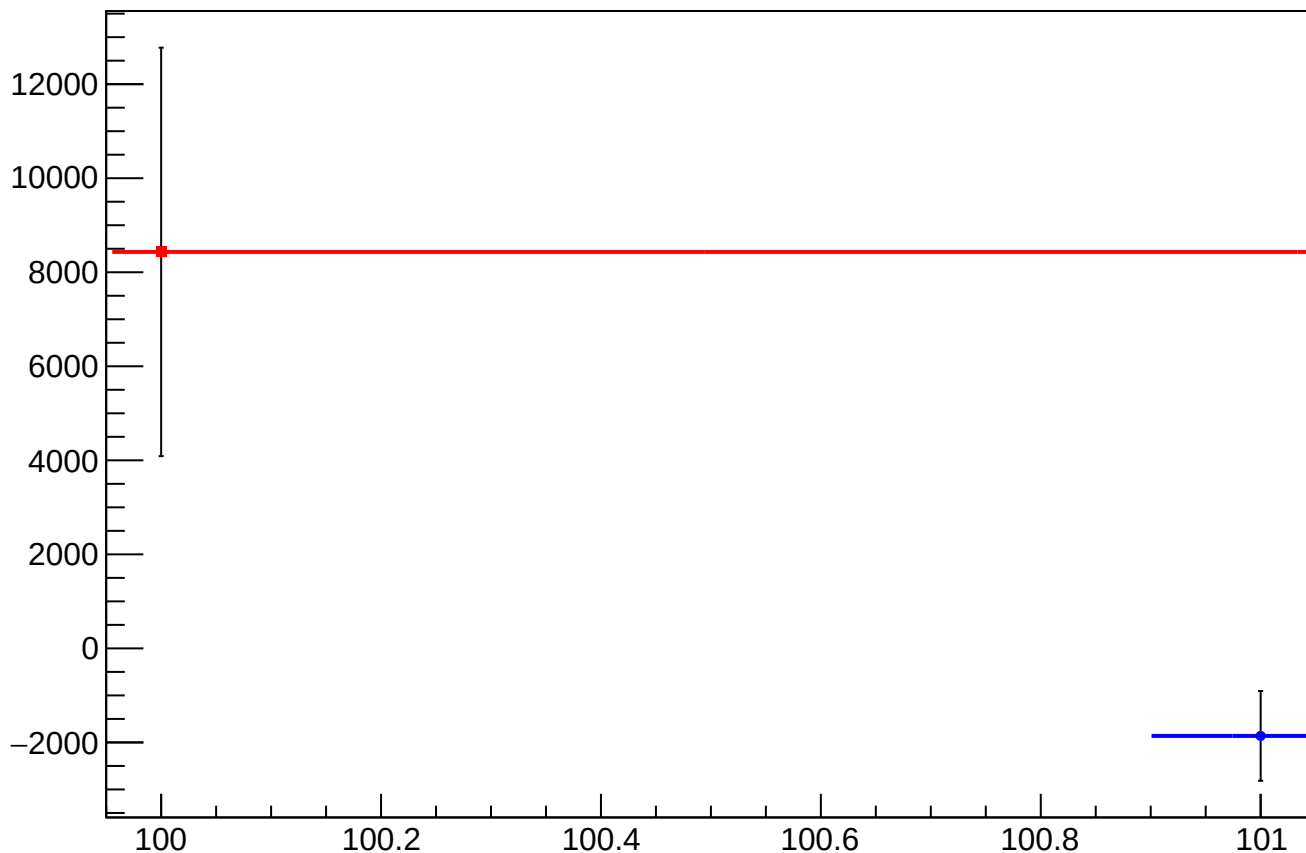
Right: 741.738 $\pm$ 0.615  $\chi^2$ /NDF: 3614.8/1

In: 731.482 $\pm$ 0.638  $\chi^2$ /NDF: 0.0/0

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

All: 741.738 $\pm$ 0.615  $\chi^2$ /NDF: 3614.8/1

asym\_us\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1861.487 $\pm$ 954.560  $\chi^2$ /NDF: 0.0/0

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

Right Out: 8432.821 $\pm$ 4343.646  $\chi^2$ /NDF: 0.0/0

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

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

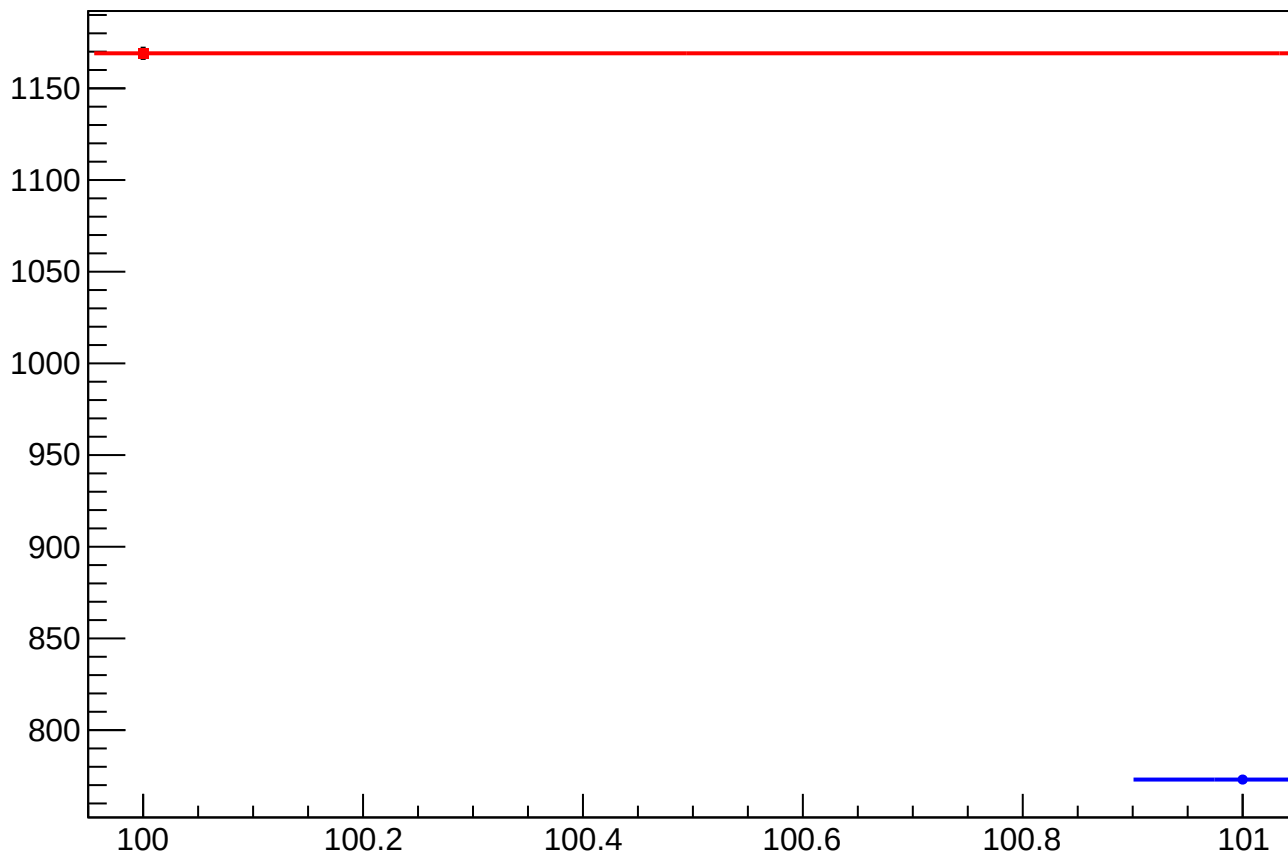
Right: -1387.233 $\pm$ 932.312  $\chi^2$ /NDF: 5.4/1

In: -1861.487 $\pm$ 954.560  $\chi^2$ /NDF:0.0/0

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

All: -1387.233 $\pm$ 932.312  $\chi^2$ /NDF: 5.4/1

asym\_us\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 773.032 $\pm$ 0.675  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1169.106 $\pm$ 3.071  $\chi^2$ /NDF: 0.0/0

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

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

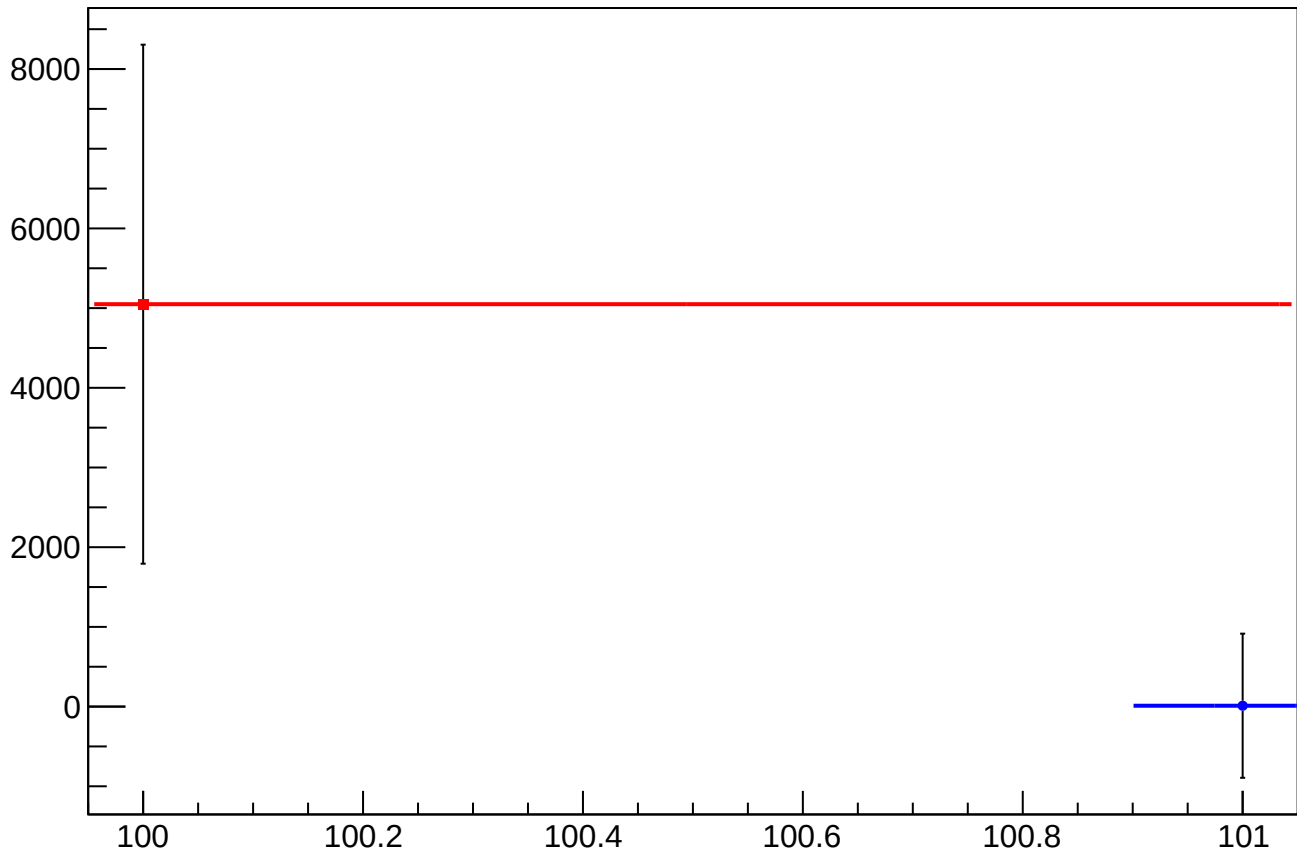
Right: 791.279 $\pm$ 0.659  $\chi^2$ /NDF: 15863.2/1

In: 773.032 $\pm$ 0.675  $\chi^2$ /NDF: 0.0/0

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

All: 791.279 $\pm$ 0.659  $\chi^2$ /NDF: 15863.2/1

# dit\_asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: 10.731+/-904.287  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 5049.295+/-3256.412  $\chi^2/\text{NDF}$ : 0.0/0

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

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

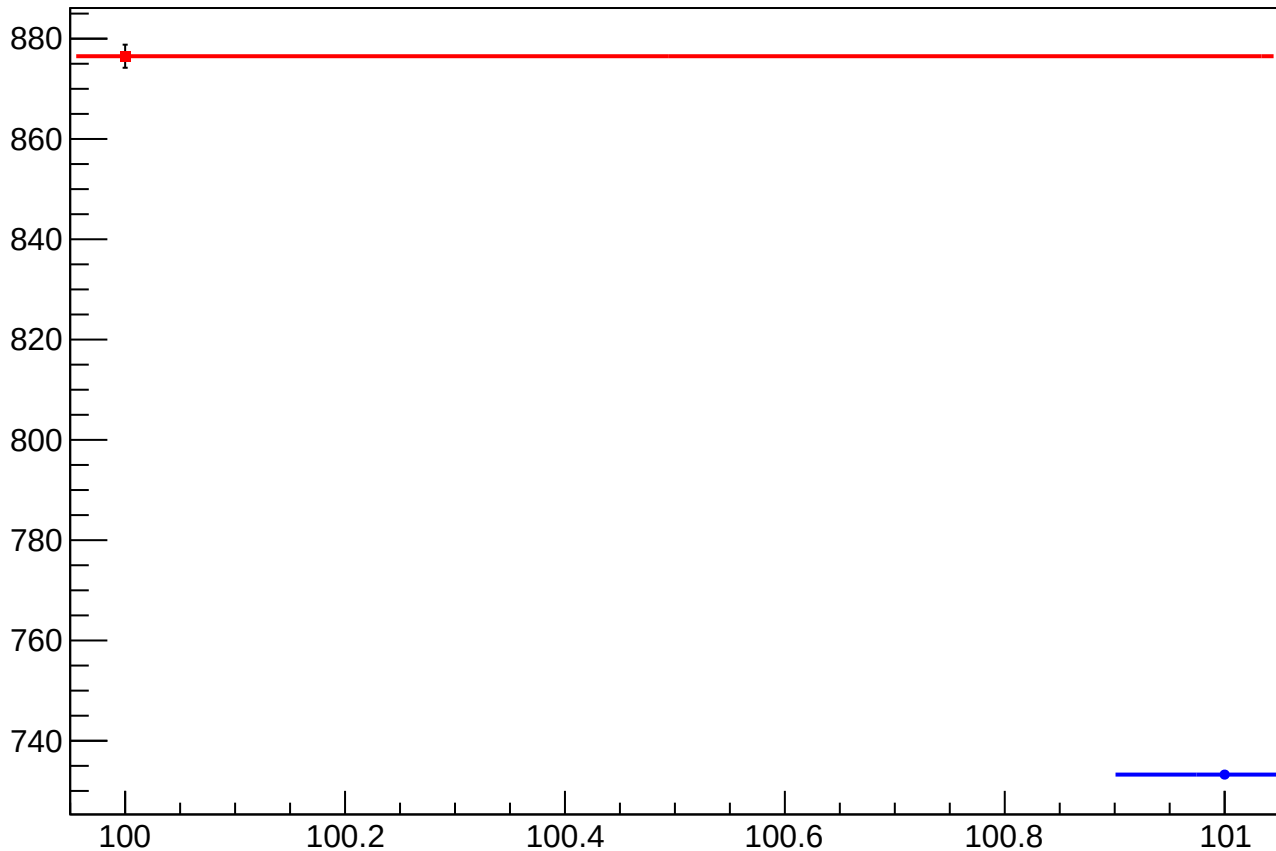
Right: 371.459+/-871.316  $\chi^2/\text{NDF}$ : 2.2/1

In: 10.731+/-904.287  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 371.459+/-871.316  $\chi^2/\text{NDF}$ : 2.2/1

# dit\_asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 733.258 $\pm$ 0.639  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 876.501 $\pm$ 2.303  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

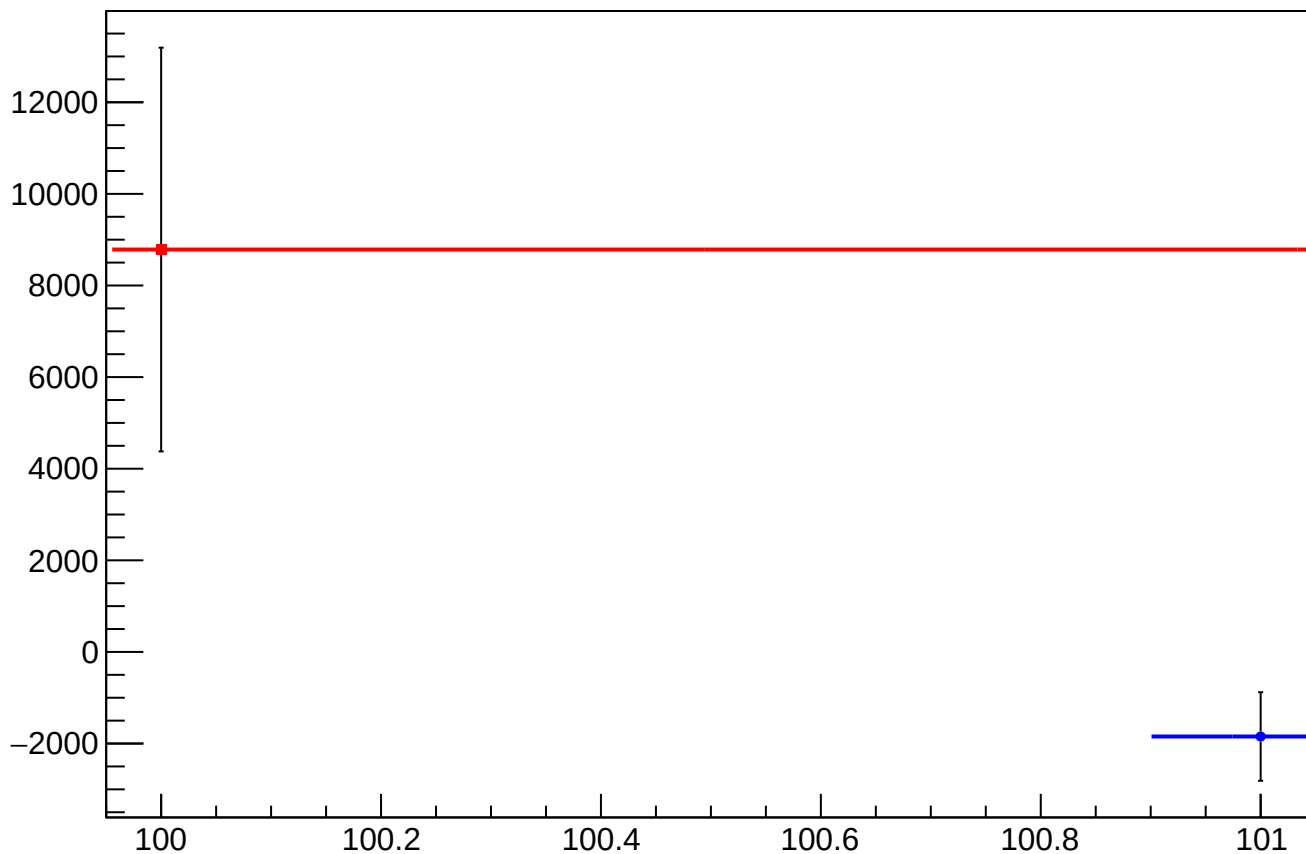
Right: 743.513 $\pm$ 0.616  $\chi^2/\text{NDF}$ : 3592.8/1

In: 733.258 $\pm$ 0.639  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 743.513 $\pm$ 0.616  $\chi^2/\text{NDF}$ : 3592.8/1

asym\_us\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1846.420+/-967.051  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8784.801+/-4407.237  $\chi^2/\text{NDF}$ : 0.0/0

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

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

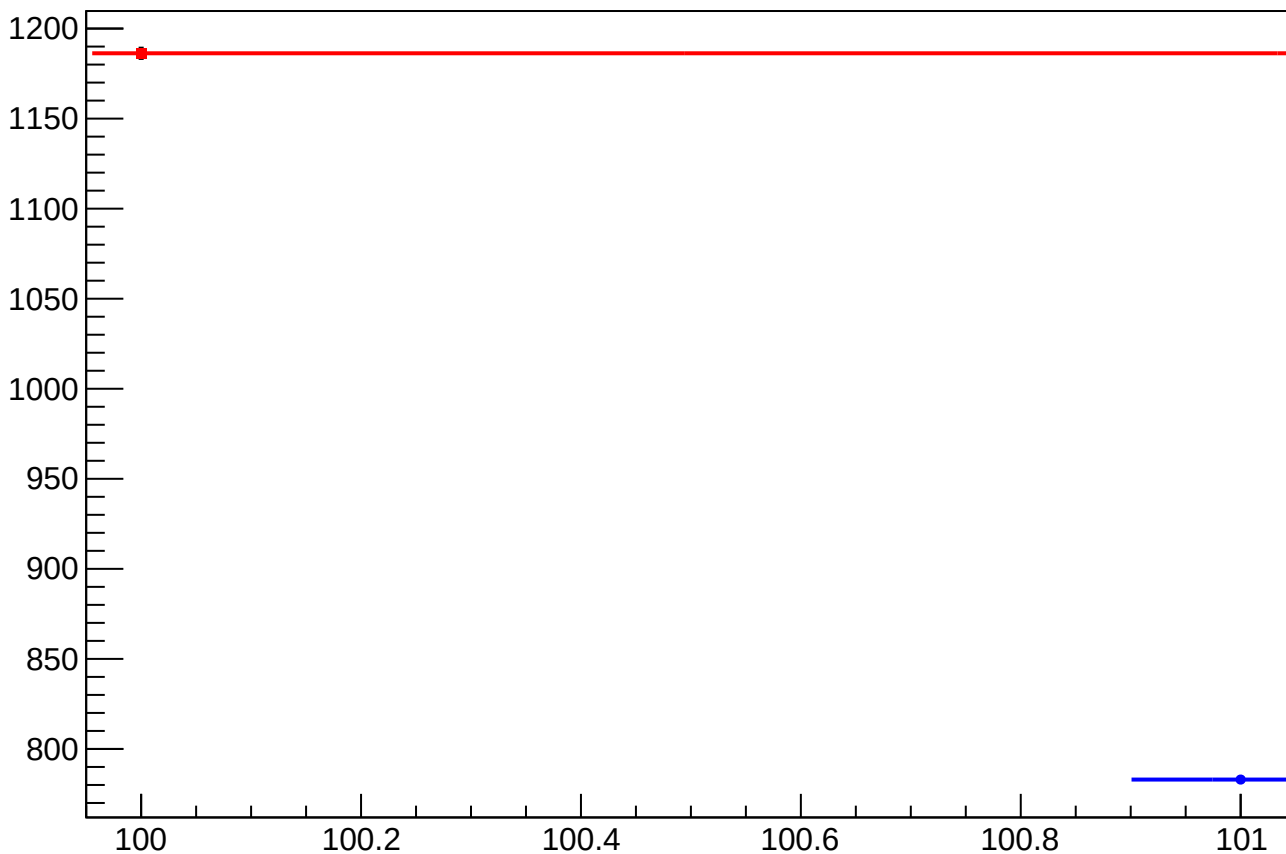
Right: -1358.074+/-944.579  $\chi^2/\text{NDF}$ : 5.6/1

In: -1846.420+/-967.051  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -1358.074+/-944.579  $\chi^2/\text{NDF}$ : 5.6/1

asym\_us\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 782.996 $\pm$ 0.684  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1186.273 $\pm$ 3.116  $\chi^2$ /NDF: 0.0/0

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

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

Right: 801.521 $\pm$ 0.668  $\chi^2$ /NDF: 15976.5/1

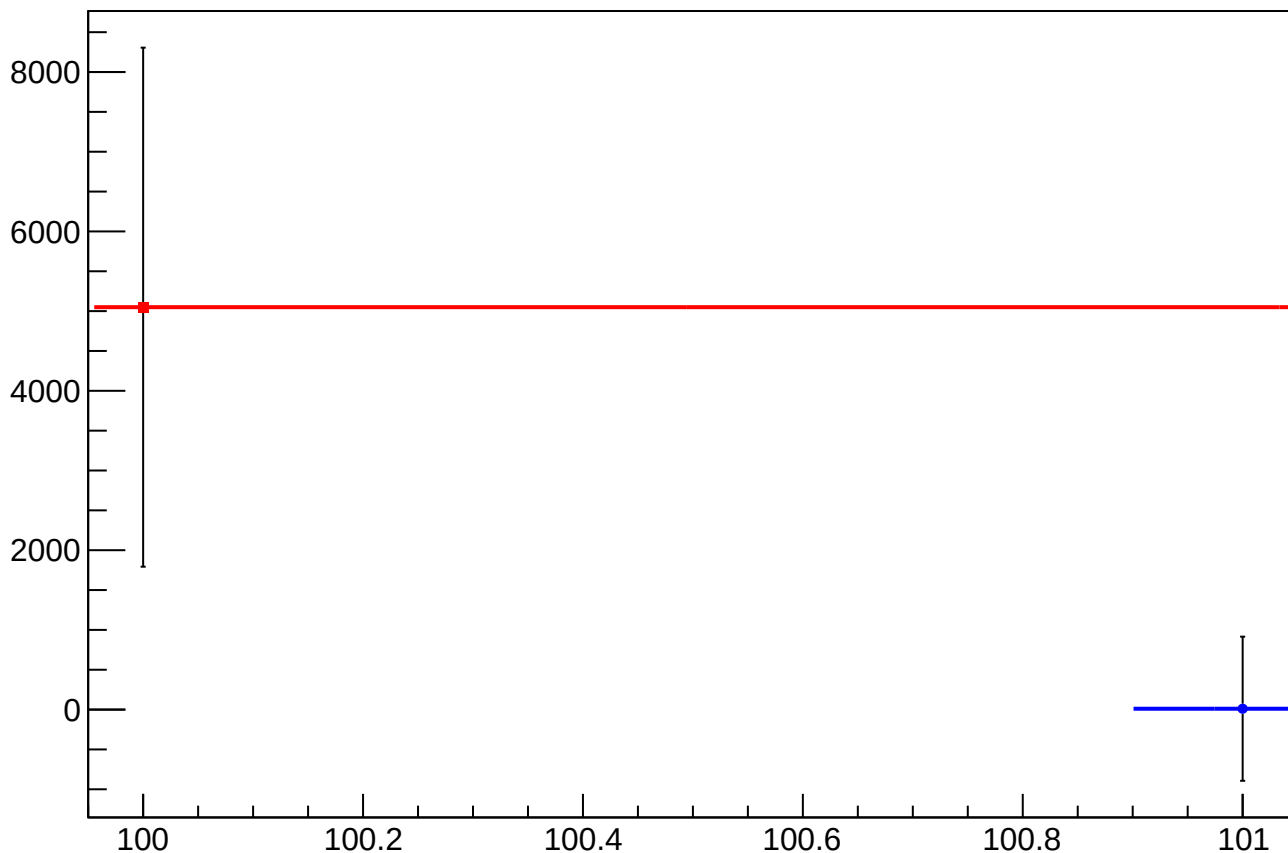
In: 782.996 $\pm$ 0.684  $\chi^2$ /NDF: 0.0/0

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

All: 801.521 $\pm$ 0.668  $\chi^2$ /NDF: 15976.5/1



eigen\_dit\_asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: 10.733+/-904.287  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 5049.290+/-3256.412  $\chi^2/\text{NDF}$ : 0.0/0

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

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

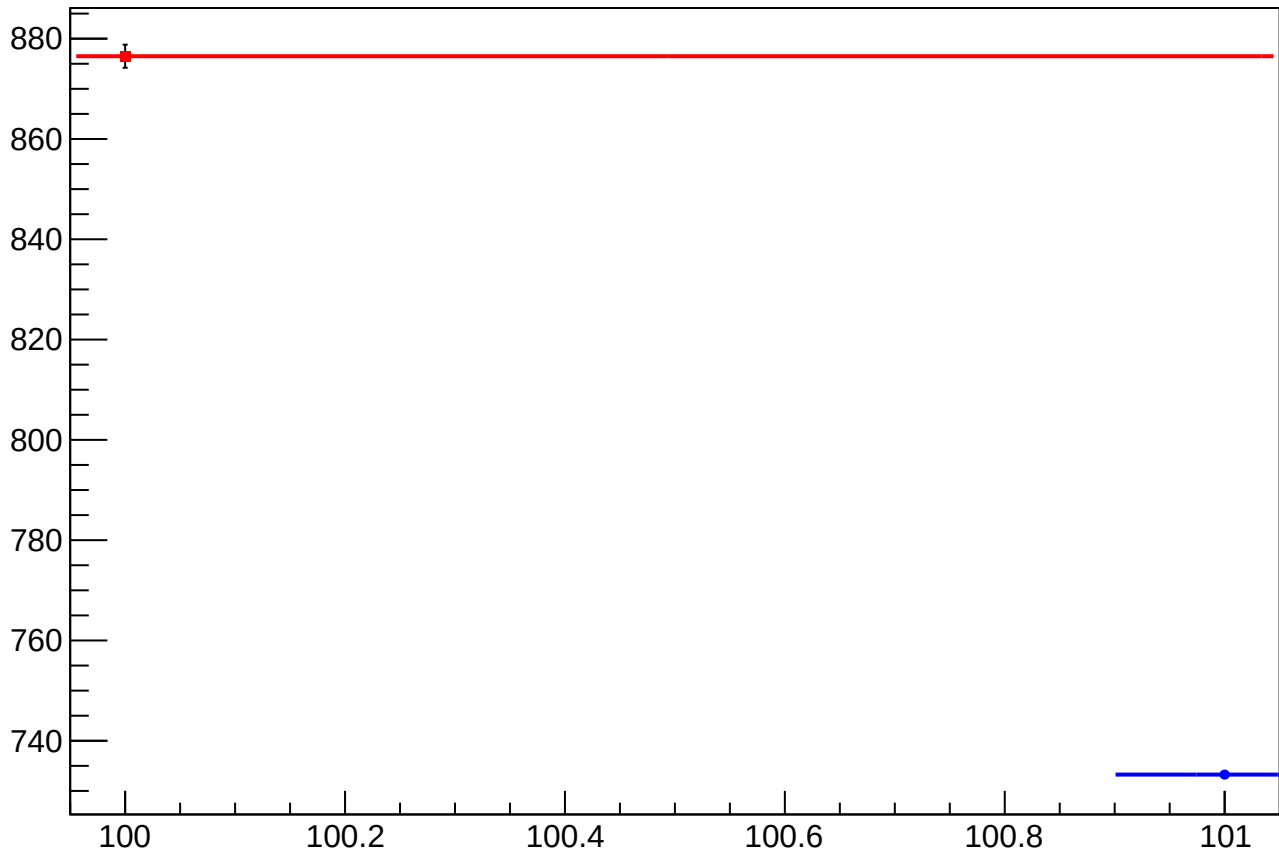
Right: 371.460+/-871.316  $\chi^2/\text{NDF}$ : 2.2/1

In: 10.733+/-904.287  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 371.460+/-871.316  $\chi^2/\text{NDF}$ : 2.2/1

# eigen\_dit\_asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 733.258 $\pm$ 0.639  $\chi^2$ /NDF: 0.0/0

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

Right Out: 876.501 $\pm$ 2.303  $\chi^2$ /NDF: 0.0/0

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

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

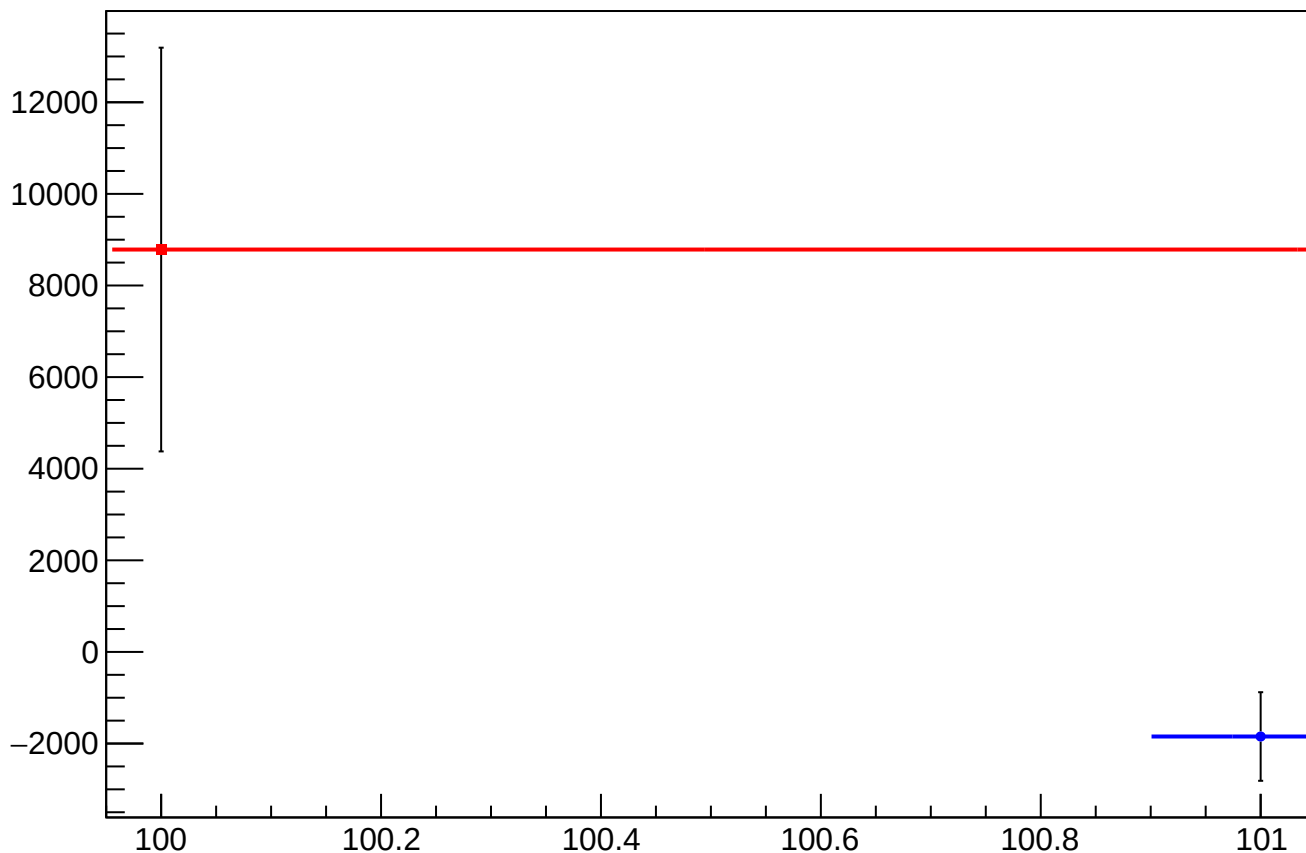
Right: 743.513 $\pm$ 0.616  $\chi^2$ /NDF: 3592.8/1

In: 733.258 $\pm$ 0.639  $\chi^2$ /NDF: 0.0/0

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

All: 743.513 $\pm$ 0.616  $\chi^2$ /NDF: 3592.8/1

asym\_us\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1846.420+/-967.051  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8784.796+/-4407.235  $\chi^2/\text{NDF}$ : 0.0/0

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

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

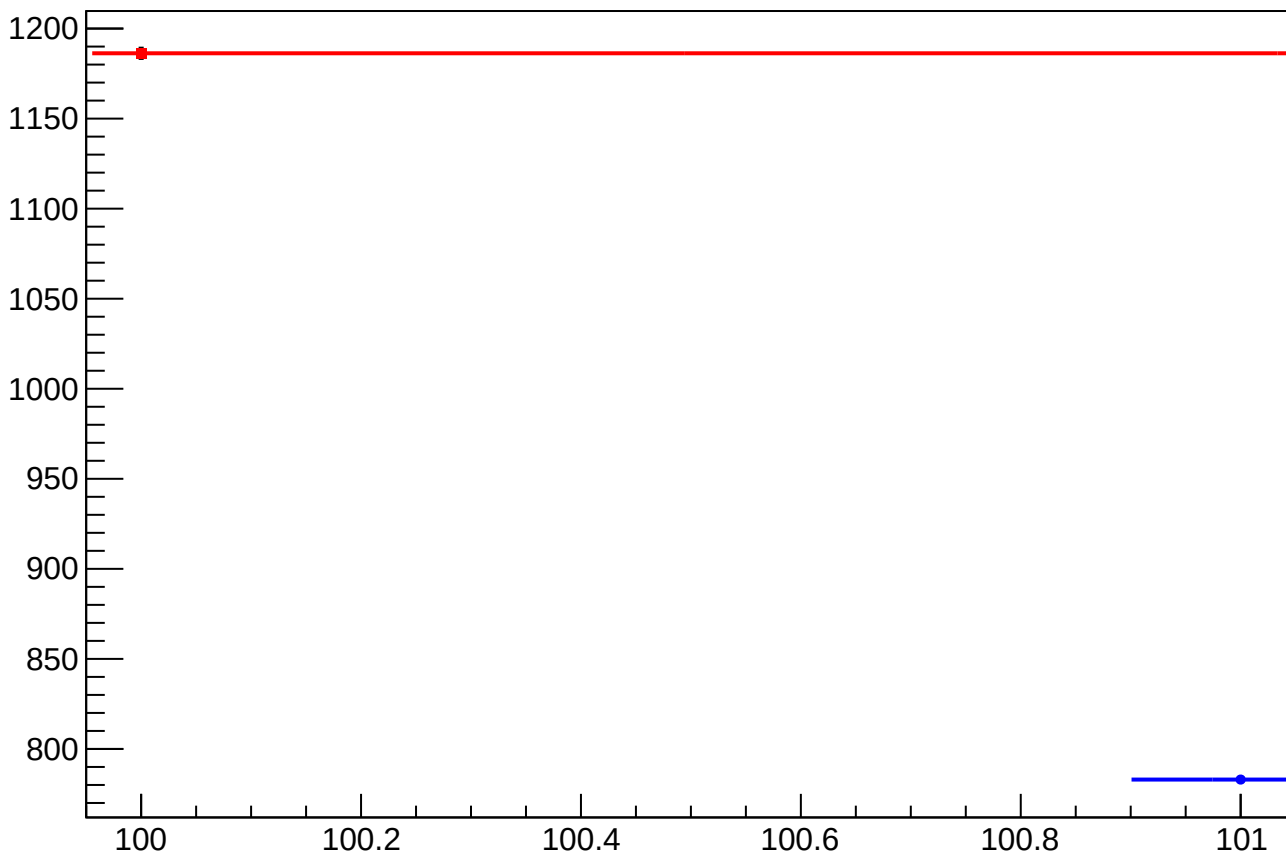
Right: -1358.075+/-944.579  $\chi^2/\text{NDF}$ : 5.6/1

In: -1846.420+/-967.051  $\chi^2/\text{NDF}$ :0.0/0

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

All: -1358.075+/-944.579  $\chi^2/\text{NDF}$ : 5.6/1

asym\_us\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 782.996 $\pm$ 0.684  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1186.273 $\pm$ 3.116  $\chi^2$ /NDF: 0.0/0

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

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

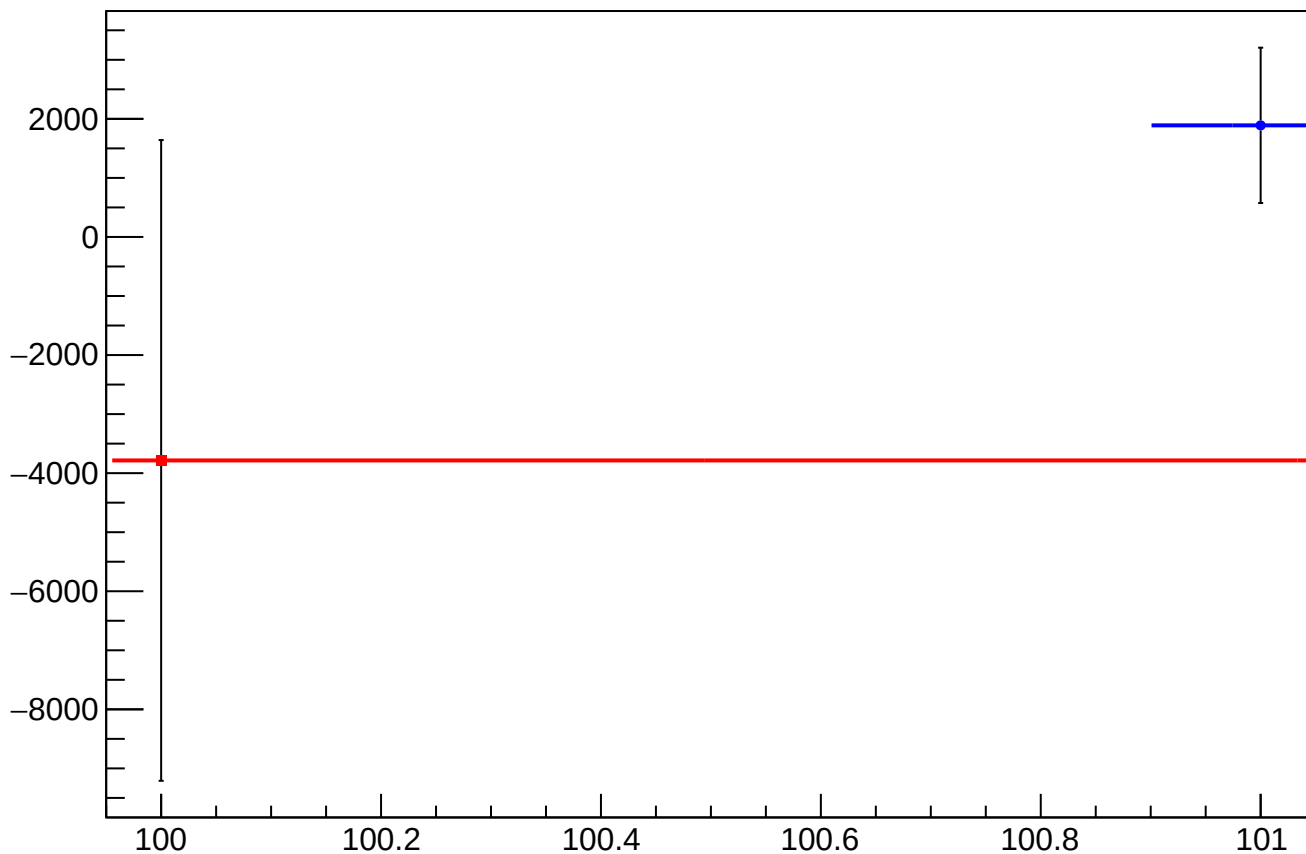
Right: 801.520 $\pm$ 0.668  $\chi^2$ /NDF: 15976.5/1

In: 782.996 $\pm$ 0.684  $\chi^2$ /NDF: 0.0/0

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

All: 801.520 $\pm$ 0.668  $\chi^2$ /NDF: 15976.5/1

# asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: 1889.963+/-1315.639  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -3784.582+/-5425.529  $\chi^2/\text{NDF}$ : 0.0/0

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

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

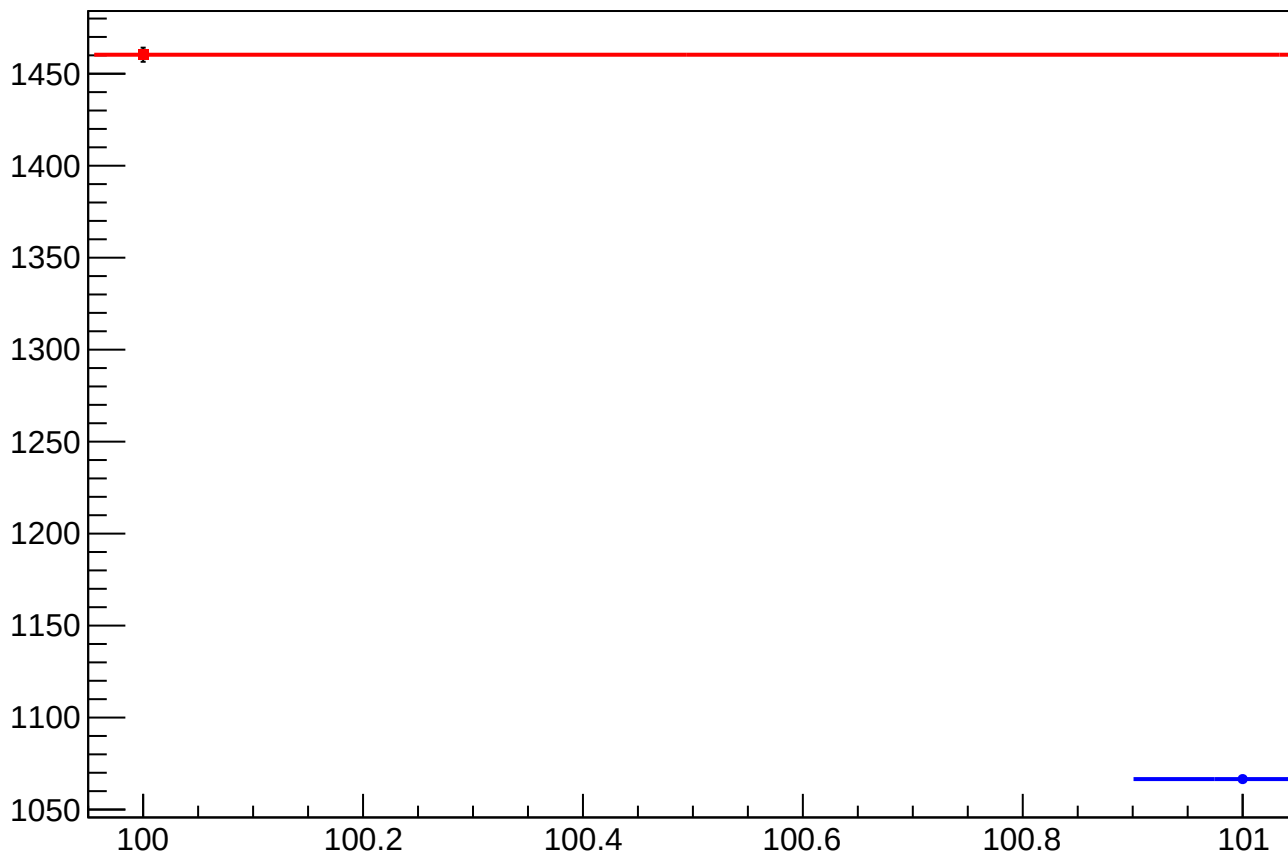
Right: 1574.822+/-1278.585  $\chi^2/\text{NDF}$ : 1.0/1

In: 1889.963+/-1315.639  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1574.822+/-1278.585  $\chi^2/\text{NDF}$ : 1.0/1

# asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 1066.556 $\pm$ 0.930  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1460.333 $\pm$ 3.836  $\chi^2$ /NDF: 0.0/0

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

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

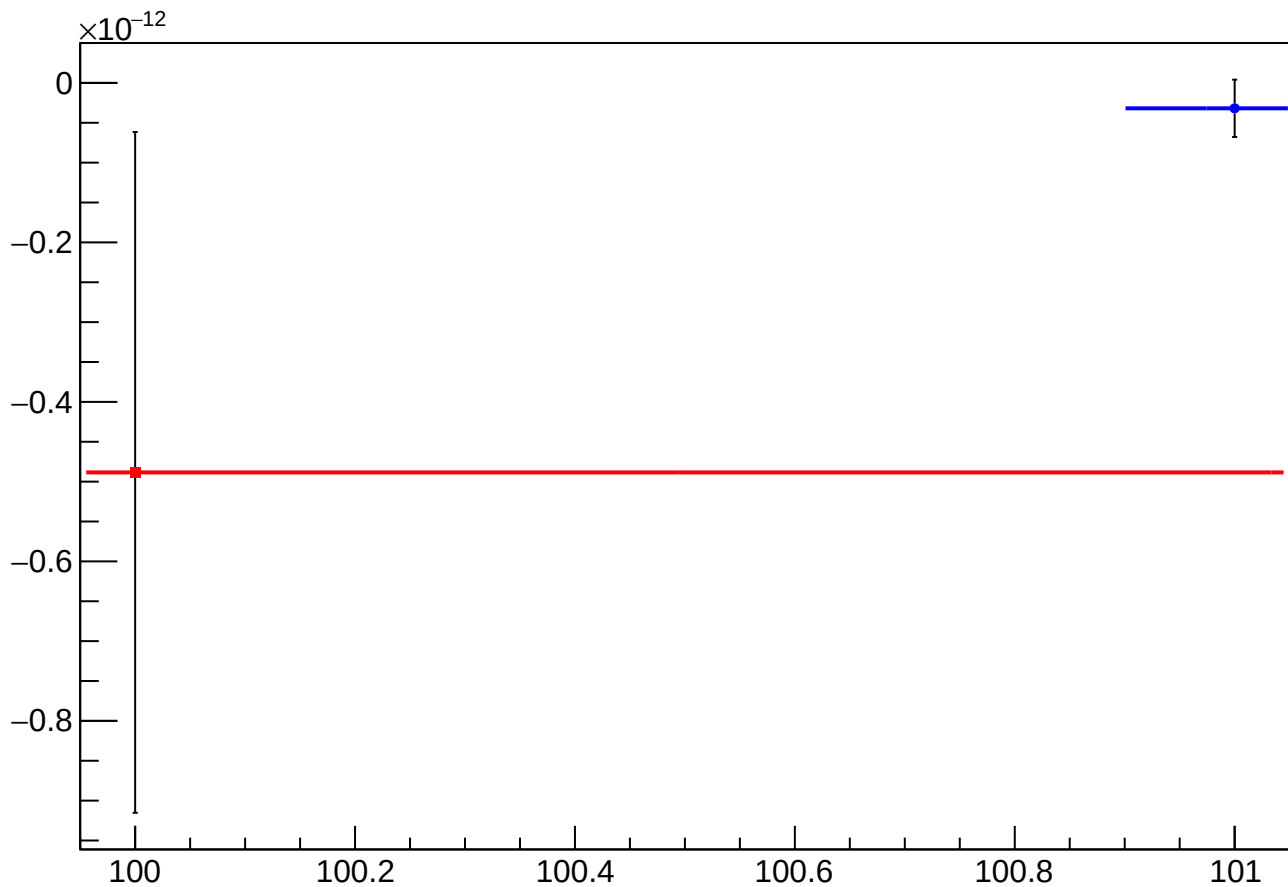
Right: 1088.425 $\pm$ 0.904  $\chi^2$ /NDF: 9950.2/1

In: 1066.556 $\pm$ 0.930  $\chi^2$ /NDF: 0.0/0

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

All: 1088.425 $\pm$ 0.904  $\chi^2$ /NDF: 9950.2/1

asym\_us\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

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

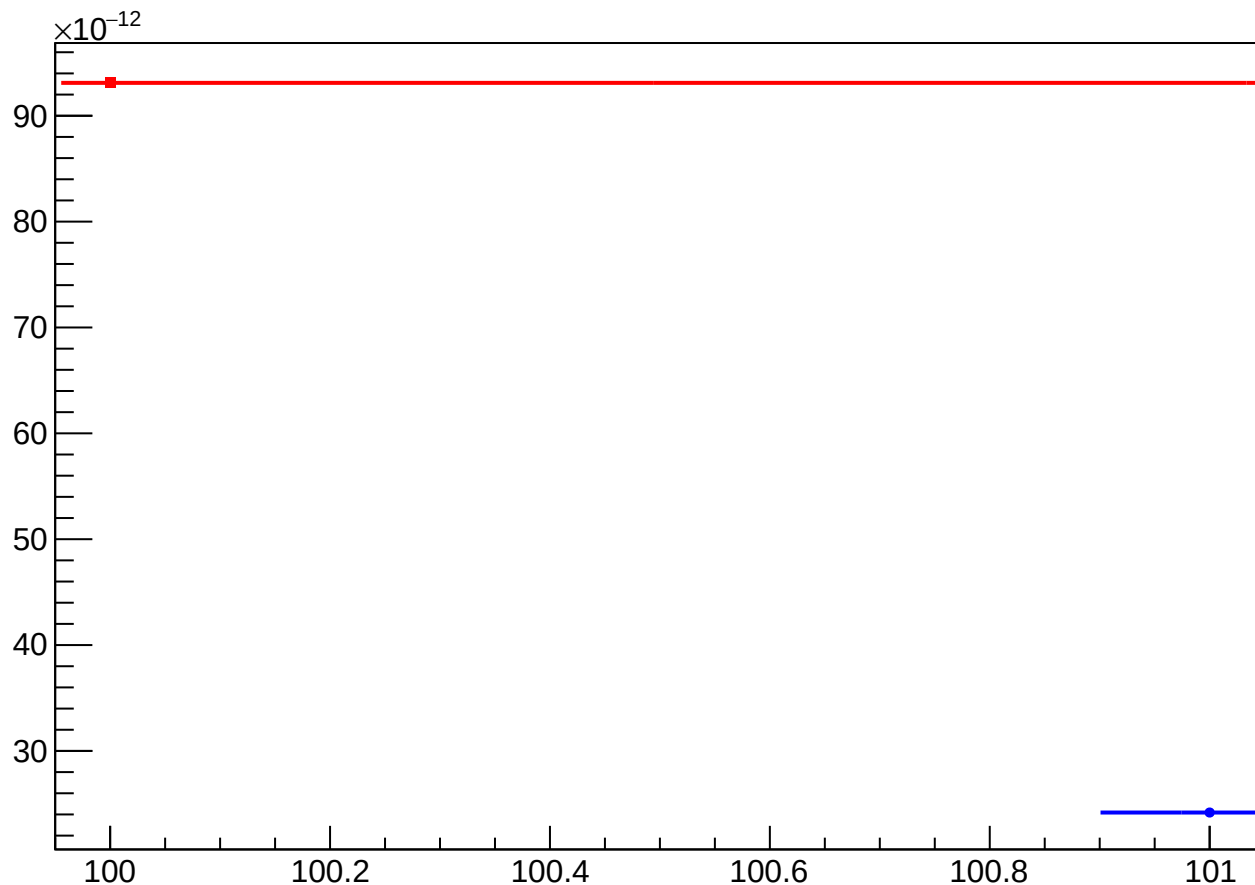
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.1/1

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

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.1/1

asym\_us\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 51783.2/1

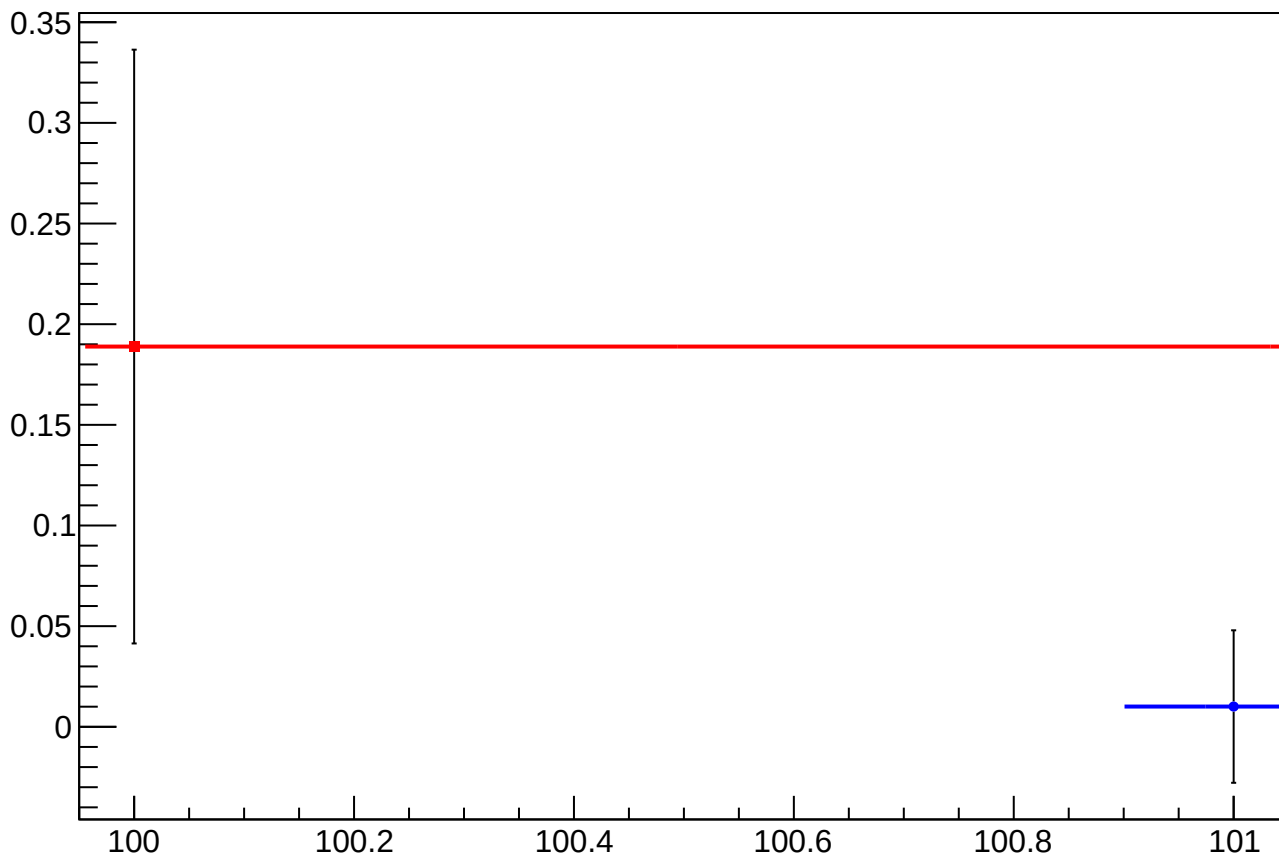
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 51783.2/1



asym\_us\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.189 $\pm$ 0.147  $\chi^2$ /NDF: 0.0/0

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

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

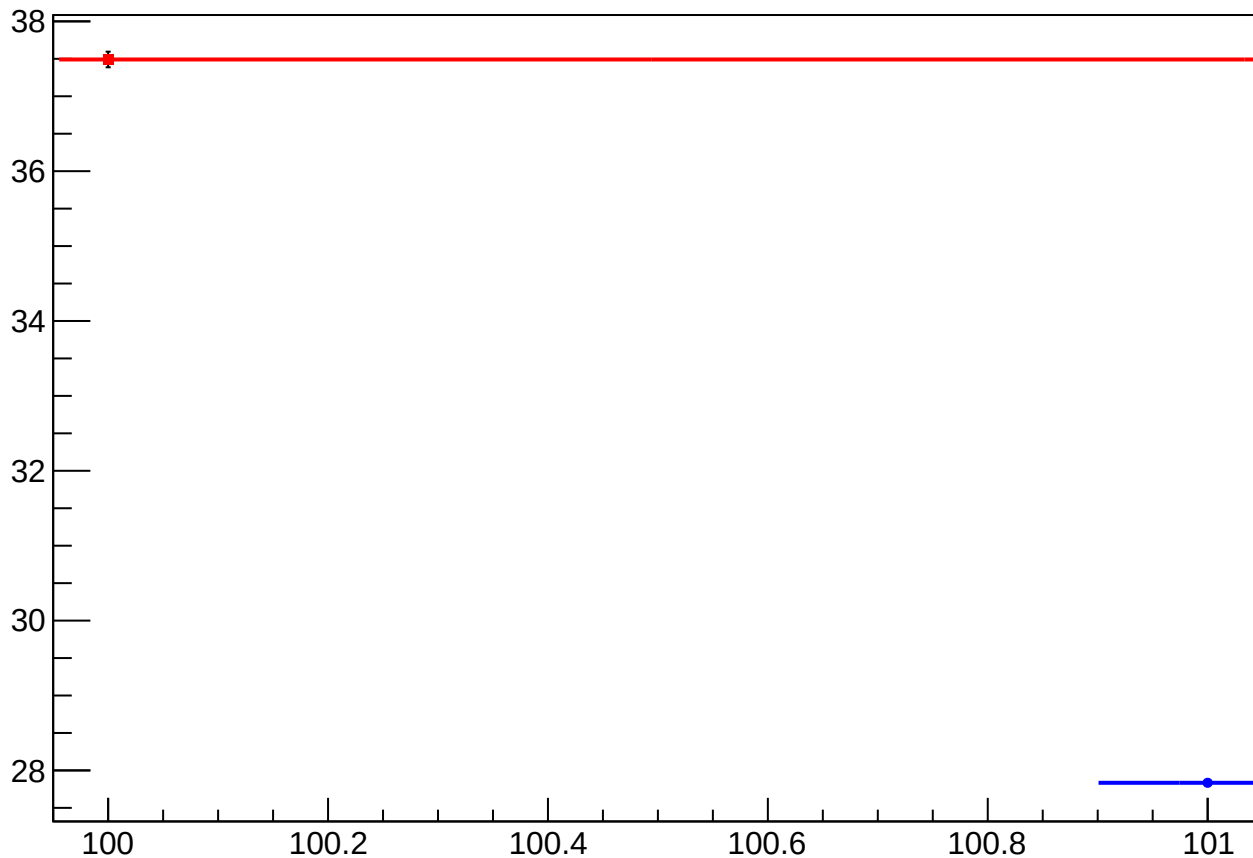
Right: 0.021 $\pm$ 0.037  $\chi^2$ /NDF: 1.4/1

In: 0.010 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

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

All: 0.021 $\pm$ 0.037  $\chi^2$ /NDF: 1.4/1

asym\_us\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 27.835 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

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

Right Out: 37.491 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

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

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

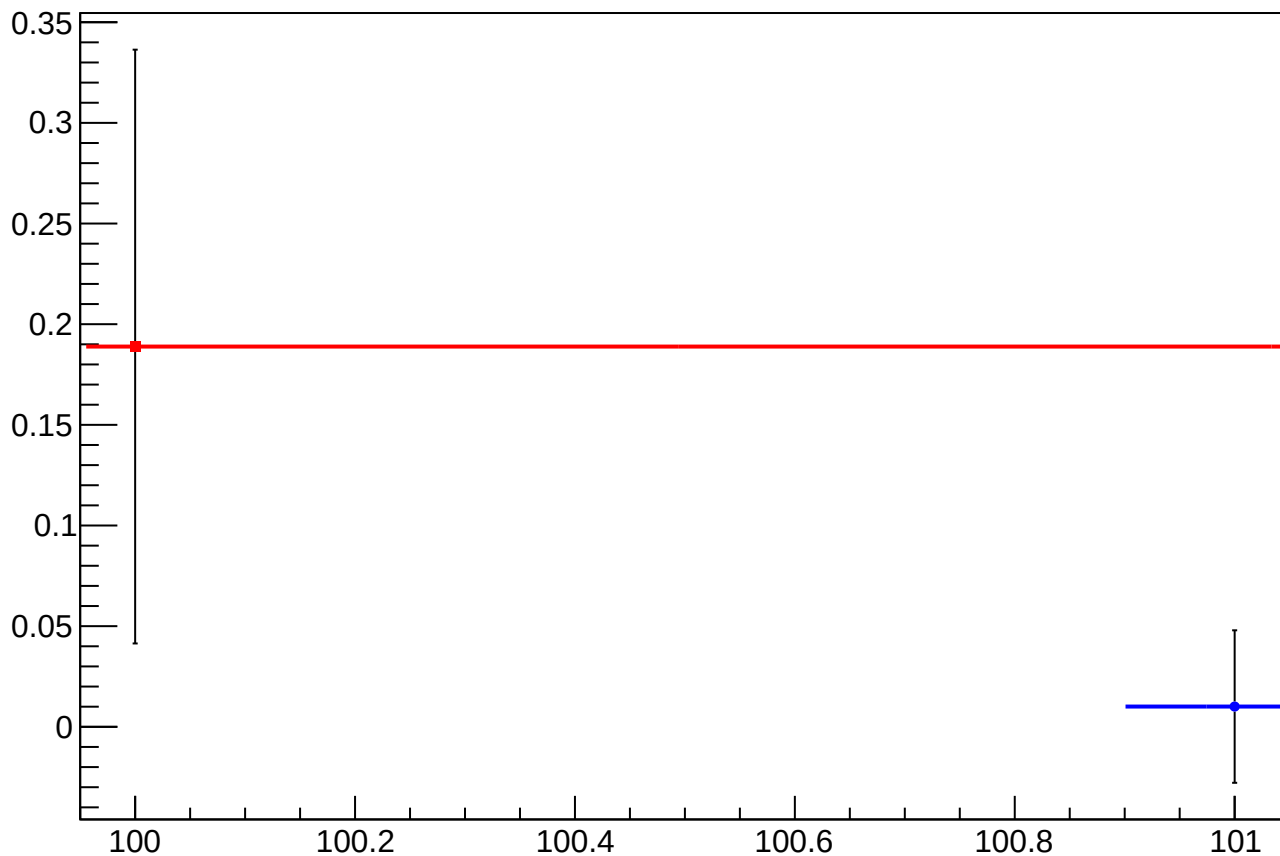
Right: 28.432 $\pm$ 0.026  $\chi^2$ /NDF: 8043.8/1

In: 27.835 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

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

All: 28.432 $\pm$ 0.026  $\chi^2$ /NDF: 8043.8/1

asym\_us\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.189 $\pm$ 0.147  $\chi^2$ /NDF: 0.0/0

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

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

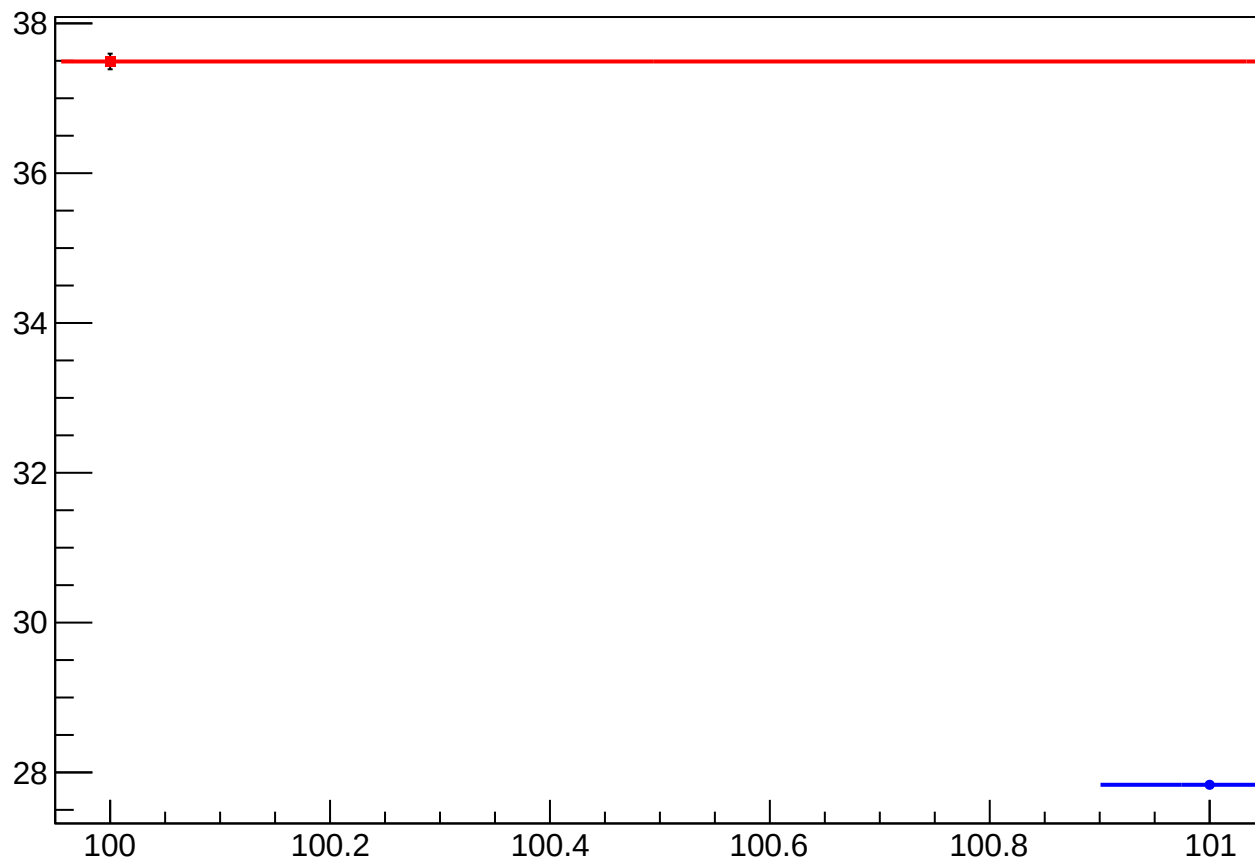
Right: 0.021 $\pm$ 0.037  $\chi^2$ /NDF: 1.4/1

In: 0.010 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

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

All: 0.021 $\pm$ 0.037  $\chi^2$ /NDF: 1.4/1

asym\_us\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 27.835 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

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

Right Out: 37.491 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

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

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

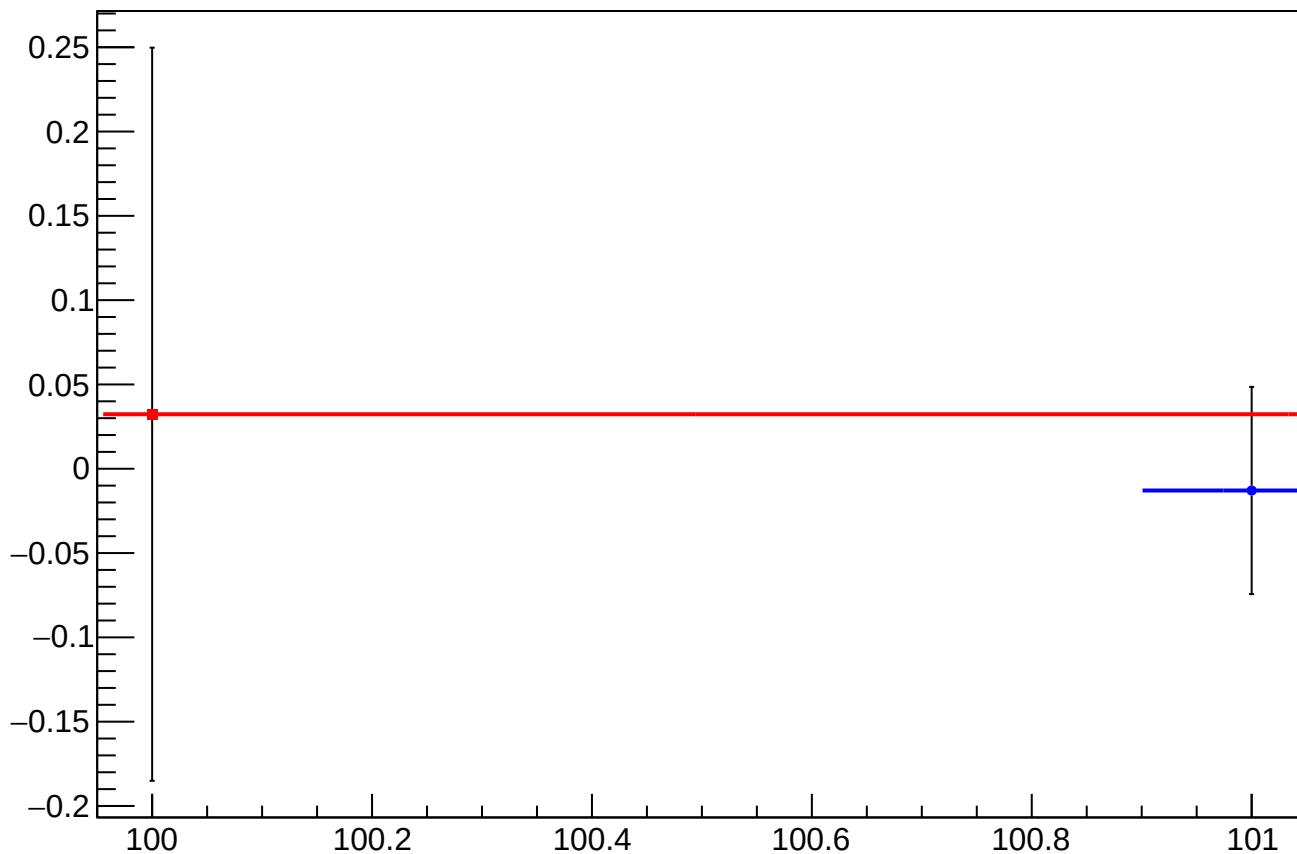
Right: 28.432 $\pm$ 0.026  $\chi^2$ /NDF: 8043.8/1

In: 27.835 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

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

All: 28.432 $\pm$ 0.026  $\chi^2$ /NDF: 8043.8/1

asym\_us\_dd\_dit\_vs\_overload\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.013+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.032+/-0.217  $\chi^2/\text{NDF}$ : 0.0/0

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

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

Right: -0.010+/-0.059  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.013+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.010+/-0.059  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_dit\_vs\_overload\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 47.396+/-0.043  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 56.588+/-0.154  $\chi^2/\text{NDF}$ : 0.0/0

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

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

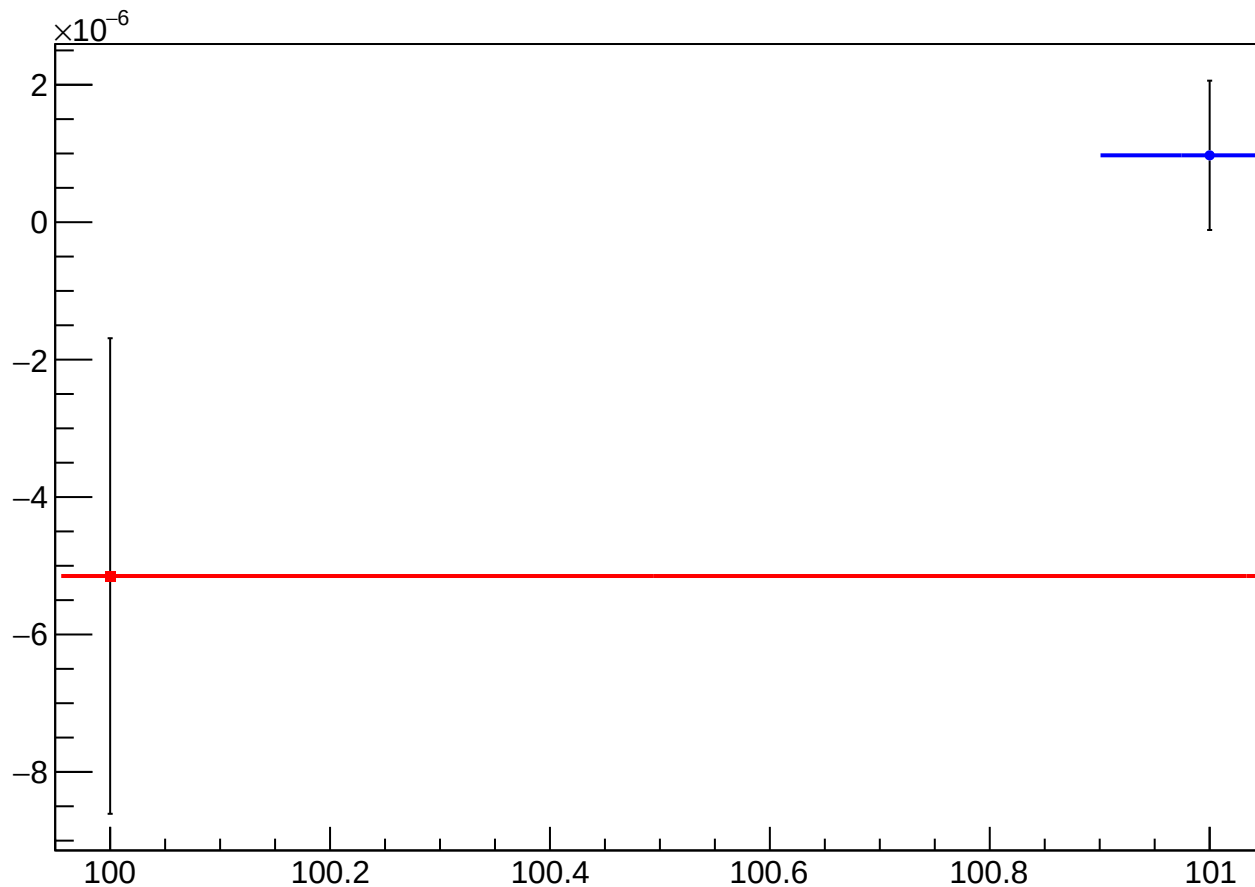
Right: 48.076+/-0.042  $\chi^2/\text{NDF}$ : 3310.5/1

In: 47.396+/-0.043  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 48.076+/-0.042  $\chi^2/\text{NDF}$ : 3310.5/1

asym\_us\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

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

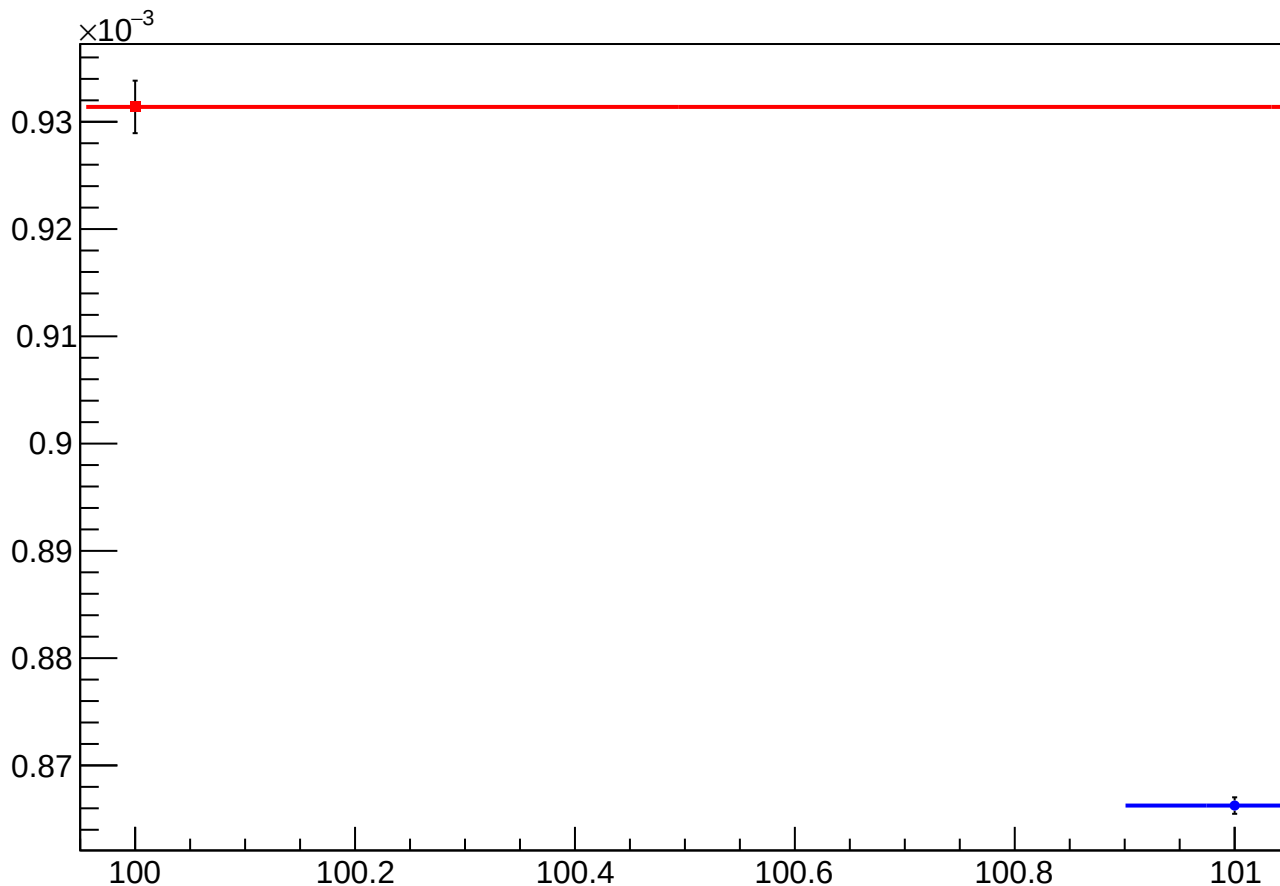
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.8/1

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

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.8/1

asym\_us\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 644.9/1

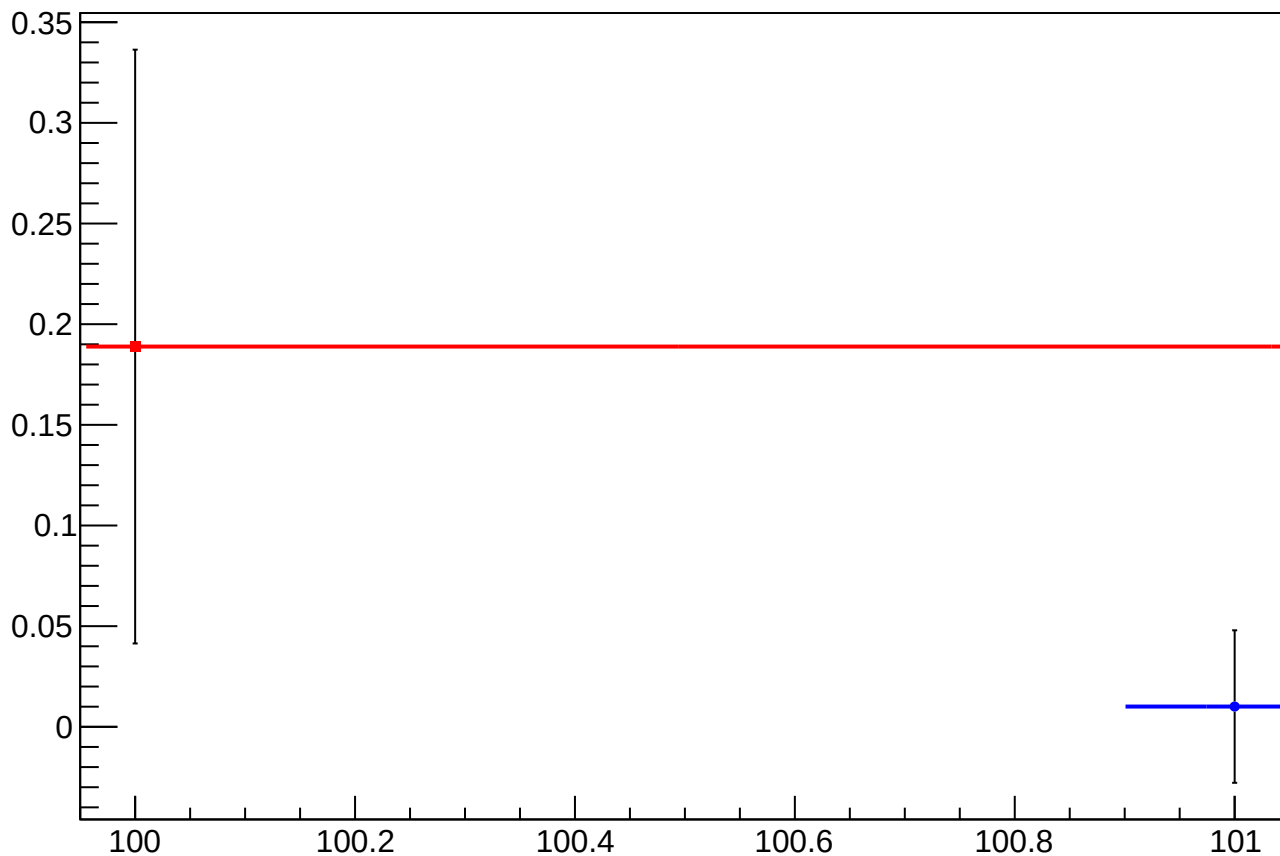
In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 644.9/1



asym\_us\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.189 $\pm$ 0.147  $\chi^2$ /NDF: 0.0/0

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

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

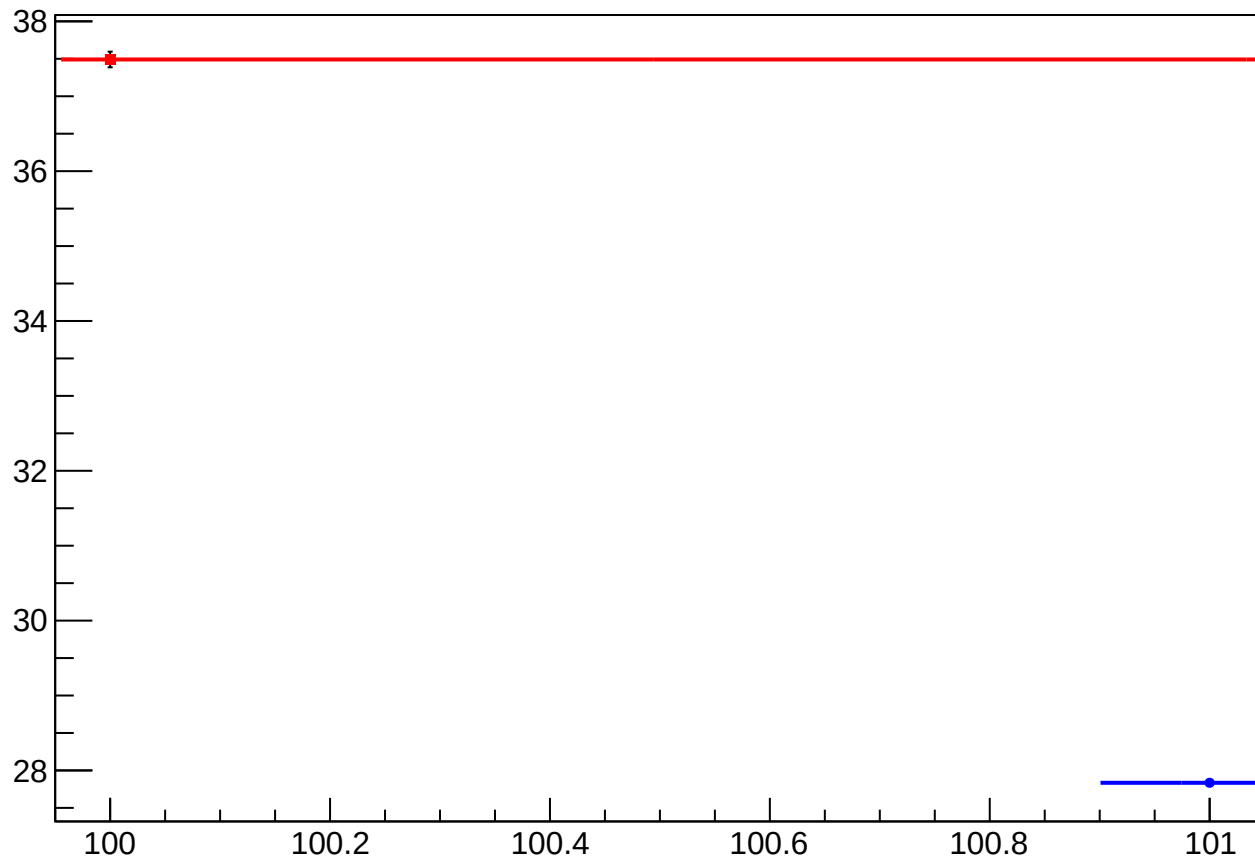
Right: 0.021 $\pm$ 0.037  $\chi^2$ /NDF: 1.4/1

In: 0.010 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

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

All: 0.021 $\pm$ 0.037  $\chi^2$ /NDF: 1.4/1

asym\_us\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 27.835 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

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

Right Out: 37.491 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

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

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

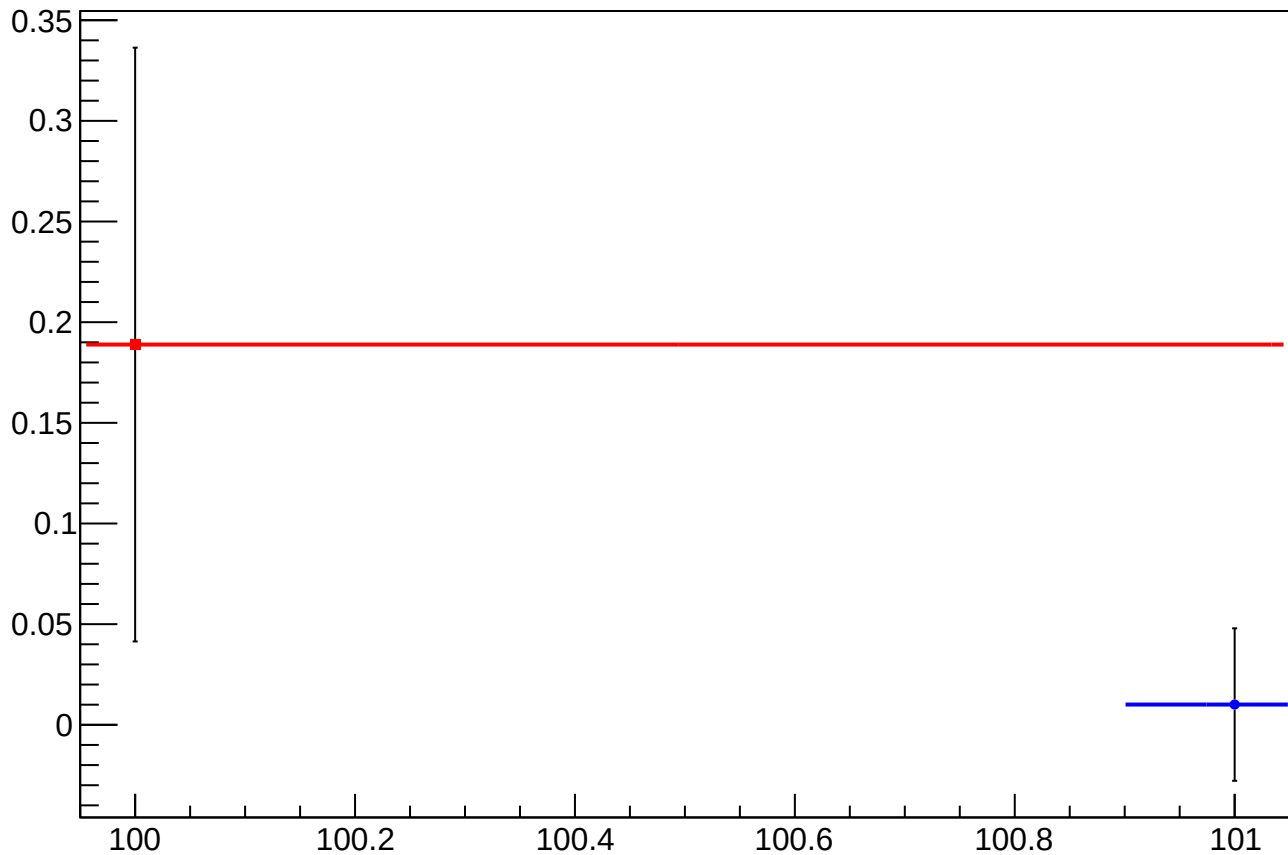
Right: 28.432 $\pm$ 0.026  $\chi^2$ /NDF: 8043.2/1

In: 27.835 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

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

All: 28.432 $\pm$ 0.026  $\chi^2$ /NDF: 8043.2/1

asym\_us\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.189 $\pm$ 0.147  $\chi^2$ /NDF: 0.0/0

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

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

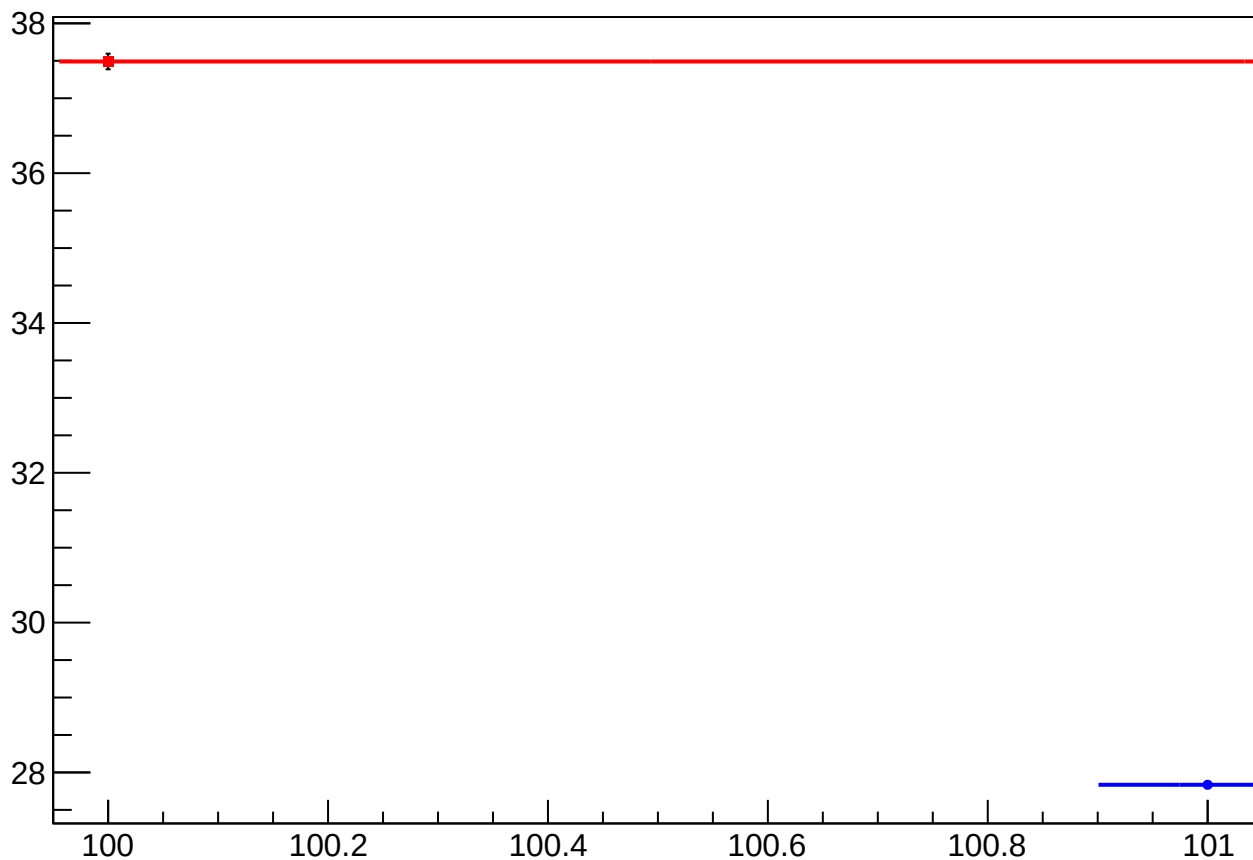
Right: 0.021 $\pm$ 0.037  $\chi^2$ /NDF: 1.4/1

In: 0.010 $\pm$ 0.038  $\chi^2$ /NDF:0.0/0

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

All: 0.021 $\pm$ 0.037  $\chi^2$ /NDF: 1.4/1

asym\_us\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 27.835 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

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

Right Out: 37.491 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

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

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

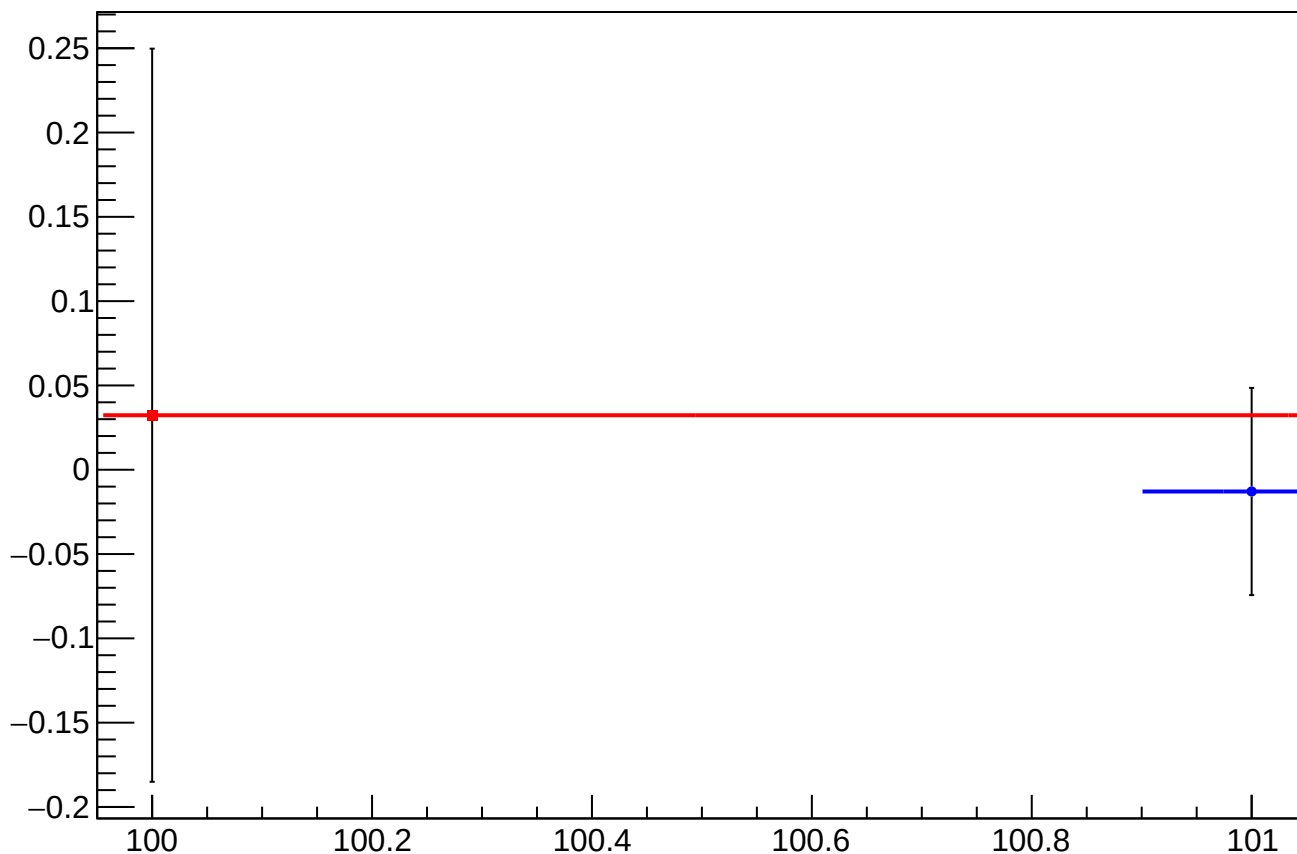
Right: 28.432 $\pm$ 0.026  $\chi^2$ /NDF: 8043.2/1

In: 27.835 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

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

All: 28.432 $\pm$ 0.026  $\chi^2$ /NDF: 8043.2/1

asym\_us\_dd\_eigen\_dit\_vs\_overload\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.013+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.032+/-0.217  $\chi^2/\text{NDF}$ : 0.0/0

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

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

Right: -0.010+/-0.059  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.013+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.010+/-0.059  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 47.396+/-0.043  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 56.587+/-0.154  $\chi^2/\text{NDF}$ : 0.0/0

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

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

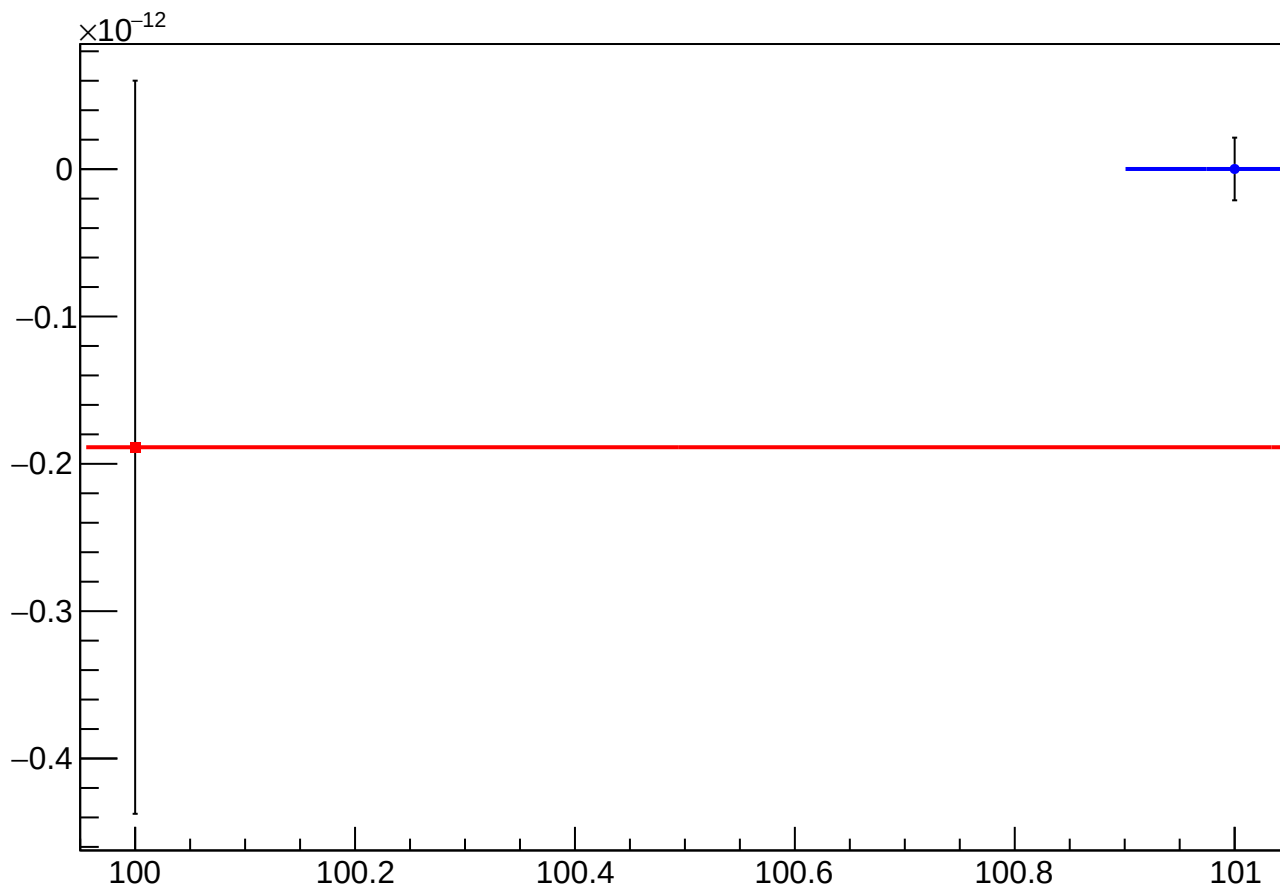
Right: 48.076+/-0.042  $\chi^2/\text{NDF}$ : 3310.3/1

In: 47.396+/-0.043  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 48.076+/-0.042  $\chi^2/\text{NDF}$ : 3310.3/1

asym\_us\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

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

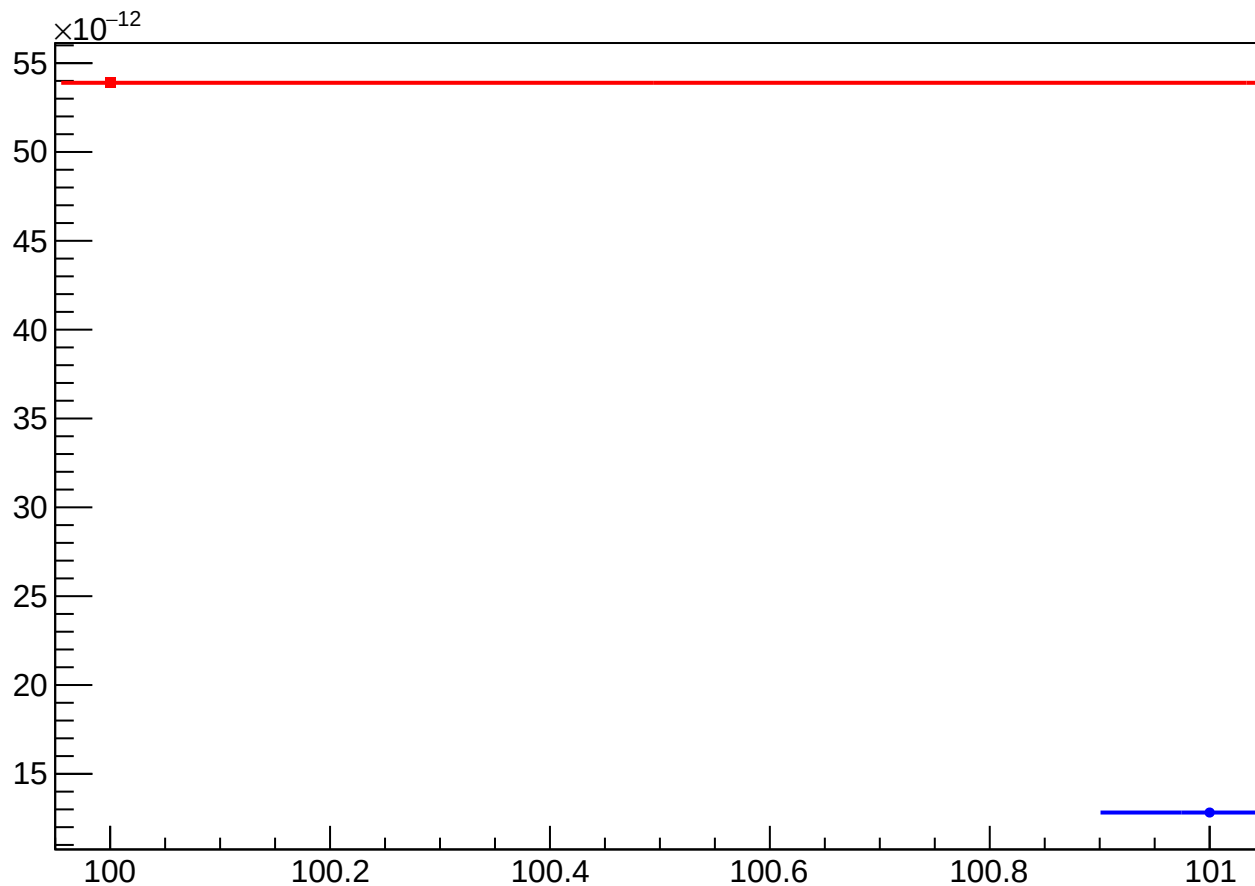
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

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

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_us\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 54104.4/1

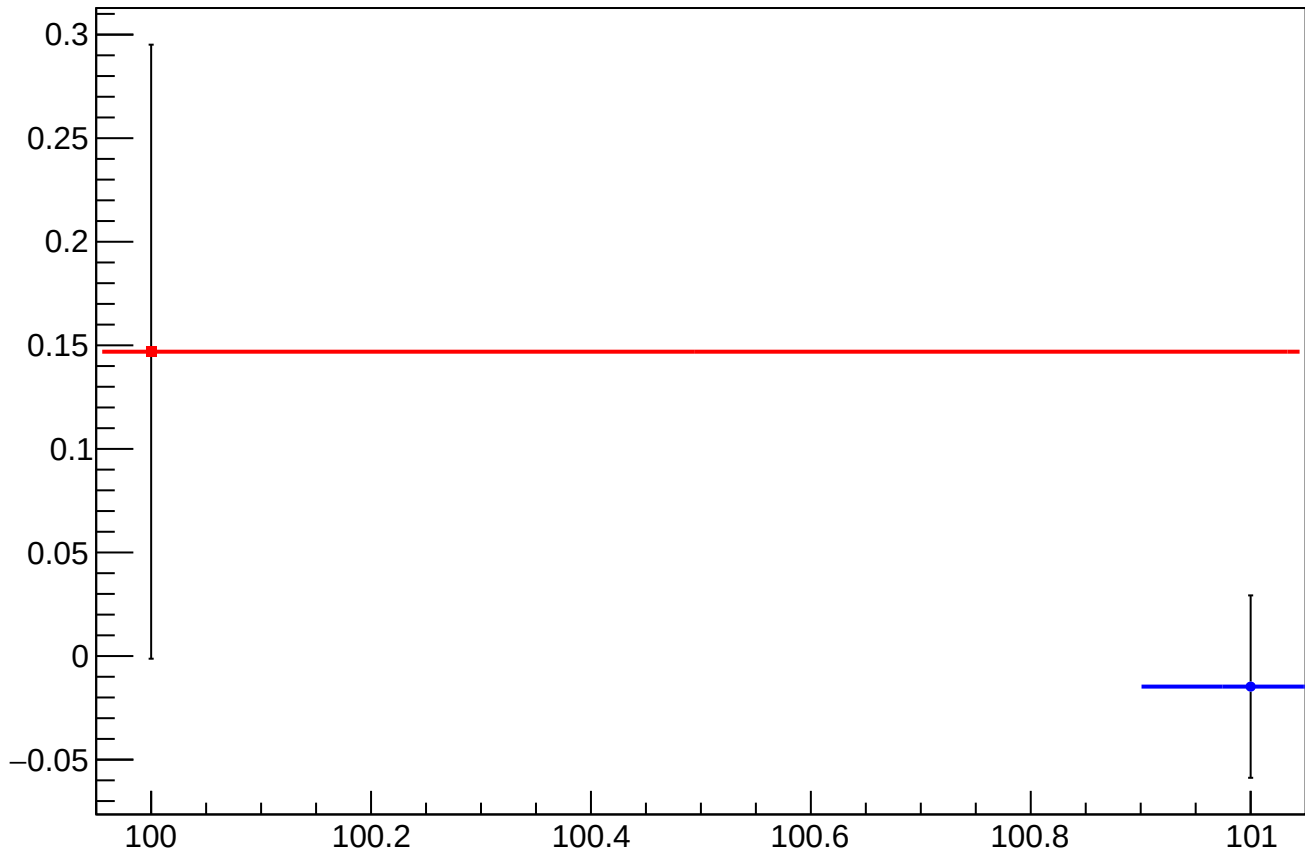
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 54104.4/1



asym\_us\_dd\_overload\_cor\_vs\_slug\_sign\_corrected



Right In: -0.015 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.147 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/0

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

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

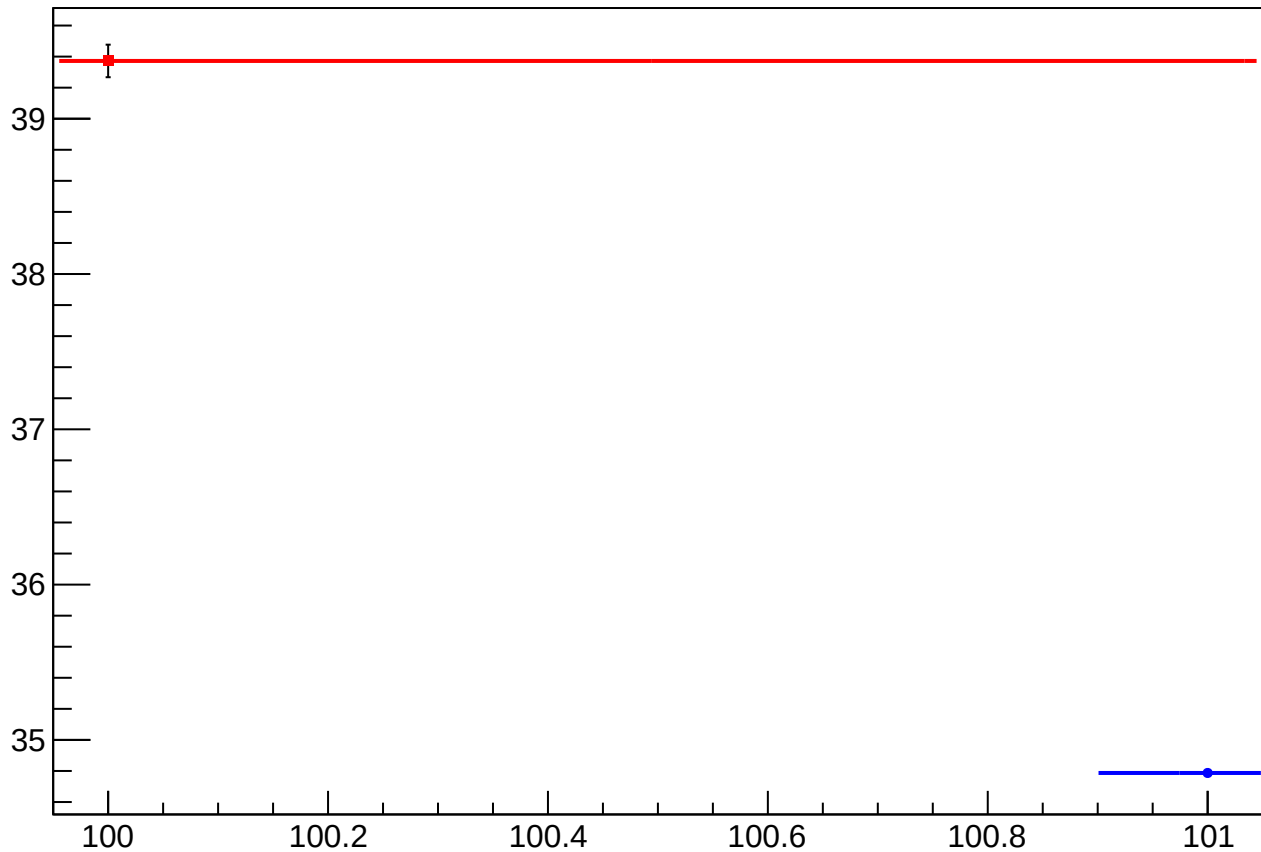
Right: -0.002 $\pm$ 0.042  $\chi^2$ /NDF: 1.1/1

In: -0.015 $\pm$ 0.044  $\chi^2$ /NDF:0.0/0

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

All: -0.002 $\pm$ 0.042  $\chi^2$ /NDF: 1.1/1

asym\_us\_dd\_overload\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 34.787 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 39.372 $\pm$ 0.105  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

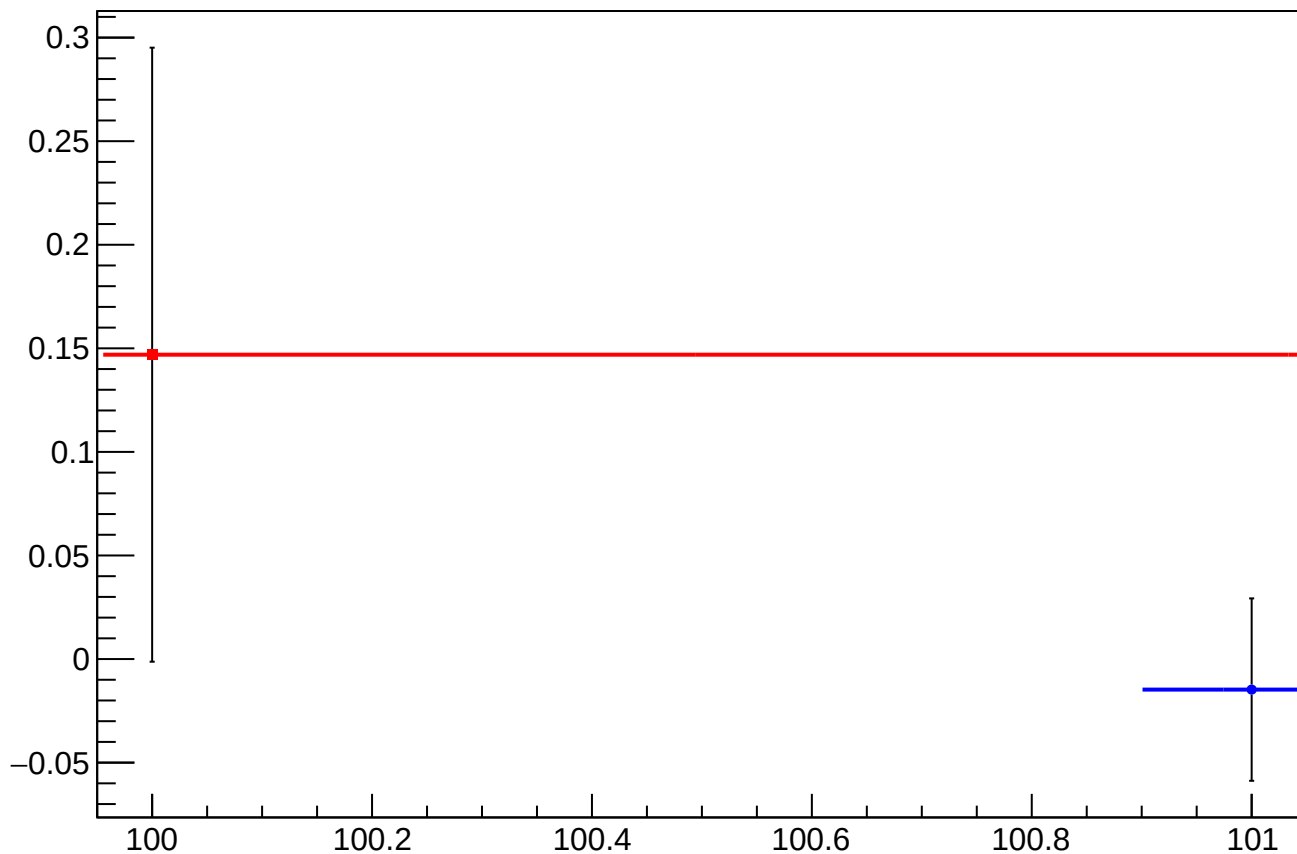
Right: 35.159 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 1758.6/1

In: 34.787 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.159 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 1758.6/1

asym\_us\_dd\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.015 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.147 $\pm$ 0.148  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -0.002 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 1.1/1

In: -0.015 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.002 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 1.1/1

asym\_us\_dd\_overload\_cor\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 34.787 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

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

Right Out: 39.372 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

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

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

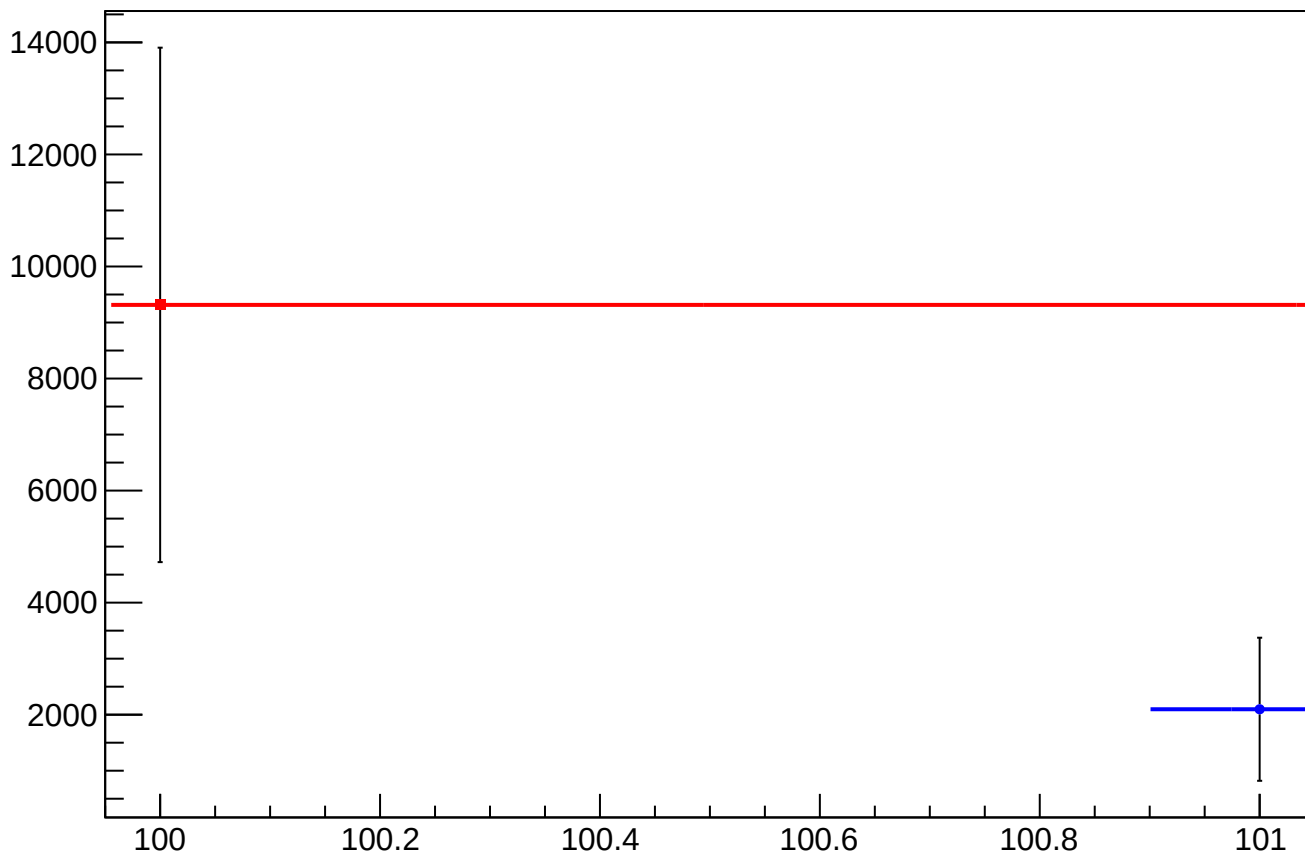
Right: 35.159 $\pm$ 0.030  $\chi^2$ /NDF: 1758.6/1

In: 34.787 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

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

All: 35.159 $\pm$ 0.030  $\chi^2$ /NDF: 1758.6/1

# reg\_asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2097.033+/-1277.084  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 9314.596+/-4591.351  $\chi^2/\text{NDF}$ : 0.0/0

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

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

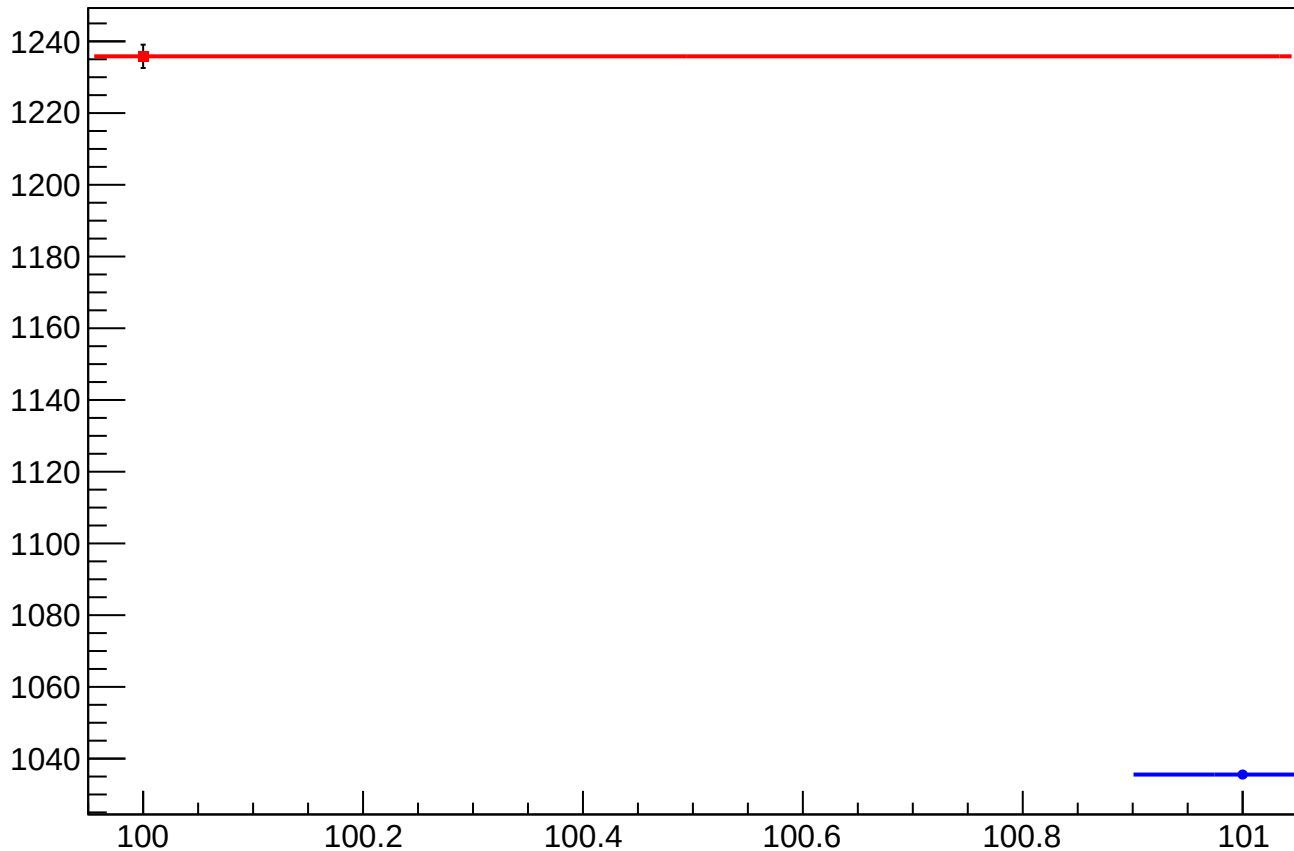
Right: 2615.337+/-1230.375  $\chi^2/\text{NDF}$ : 2.3/1

In: 2097.033+/-1277.084  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2615.337+/-1230.375  $\chi^2/\text{NDF}$ : 2.3/1

# reg\_asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1035.554 $\pm$ 0.903  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1235.828 $\pm$ 3.247  $\chi^2$ /NDF: 0.0/0

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

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

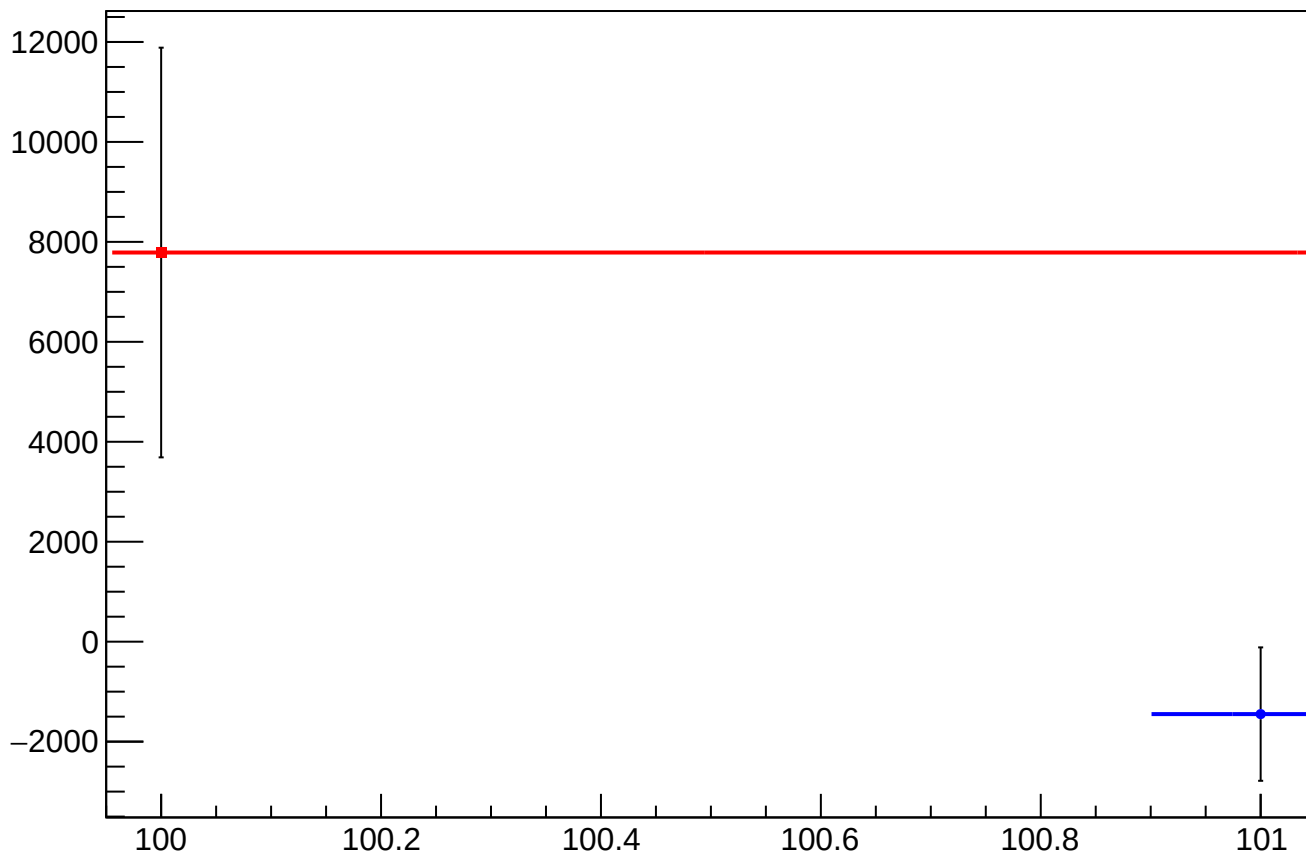
Right: 1049.936 $\pm$ 0.870  $\chi^2$ /NDF: 3532.1/1

In: 1035.554 $\pm$ 0.903  $\chi^2$ /NDF: 0.0/0

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

All: 1049.936 $\pm$ 0.870  $\chi^2$ /NDF: 3532.1/1

asym\_usl\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1449.042 +/- 1334.778  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 7786.951 +/- 4098.990  $\chi^2/\text{NDF}$ : 0.0/0

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

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

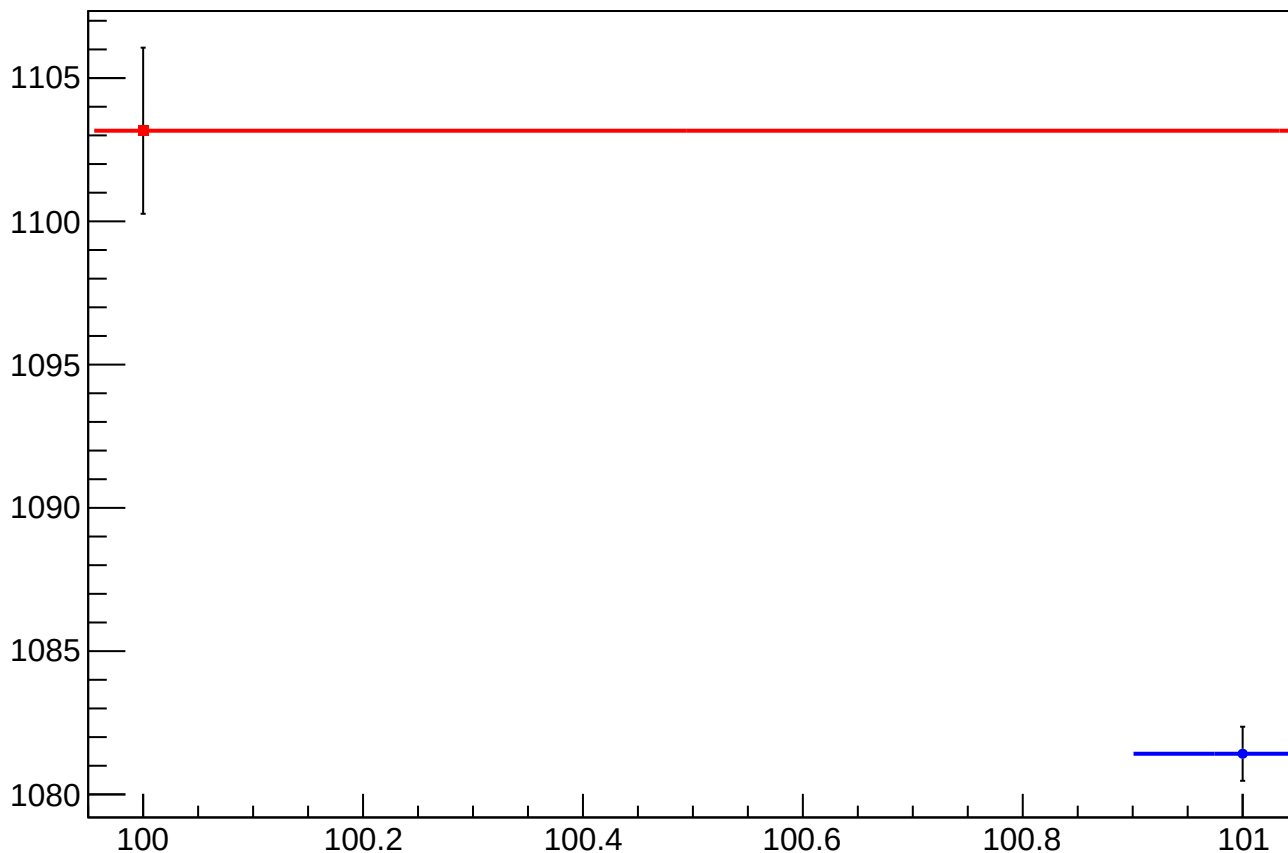
Right: -563.564 +/- 1269.182  $\chi^2/\text{NDF}$ : 4.6/1

In: -1449.042 +/- 1334.778  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -563.564 +/- 1269.182  $\chi^2/\text{NDF}$ : 4.6/1

asym\_usl\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1081.419 $\pm$ 0.944  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1103.163 $\pm$ 2.898  $\chi^2$ /NDF: 0.0/0

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

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

Right: 1083.503 $\pm$ 0.897  $\chi^2$ /NDF: 50.9/1

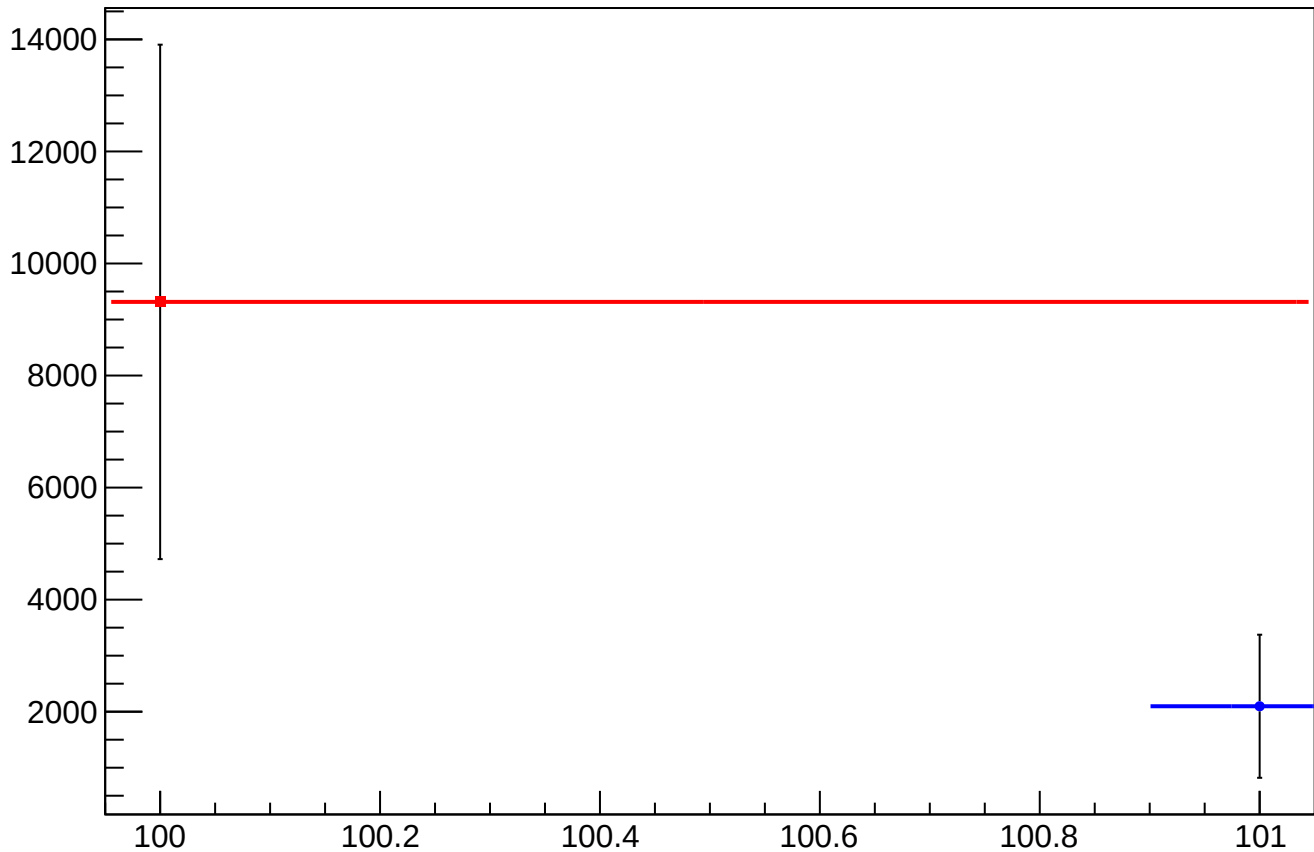
In: 1081.419 $\pm$ 0.944  $\chi^2$ /NDF: 0.0/0

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

All: 1083.503 $\pm$ 0.897  $\chi^2$ /NDF: 50.9/1



# cor\_asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2097.033+/-1277.084  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 9314.596+/-4591.351  $\chi^2/\text{NDF}$ : 0.0/0

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

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

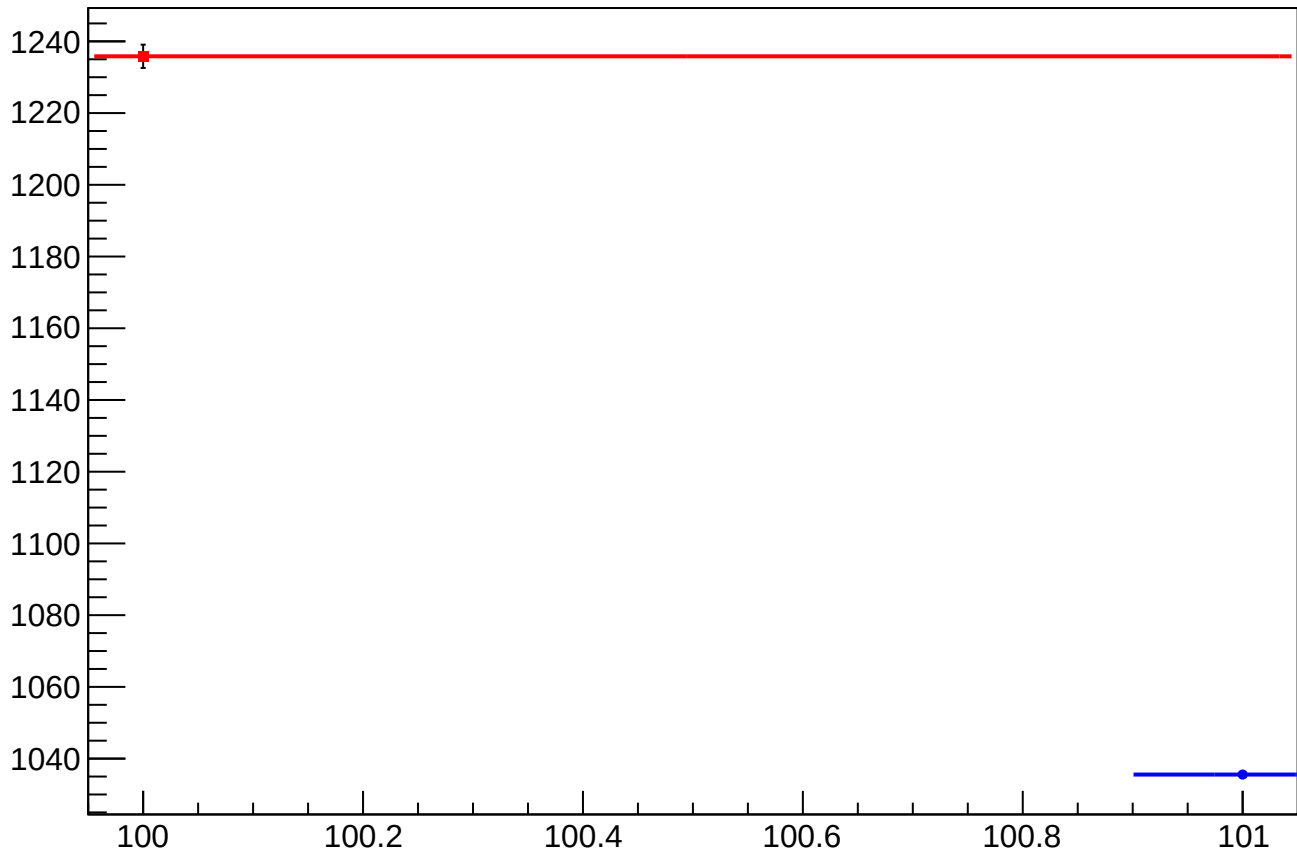
Right: 2615.337+/-1230.375  $\chi^2/\text{NDF}$ : 2.3/1

In: 2097.033+/-1277.084  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2615.337+/-1230.375  $\chi^2/\text{NDF}$ : 2.3/1

# cor\_asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1035.554+/-0.903  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1235.828+/-3.247  $\chi^2/\text{NDF}$ : 0.0/0

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

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

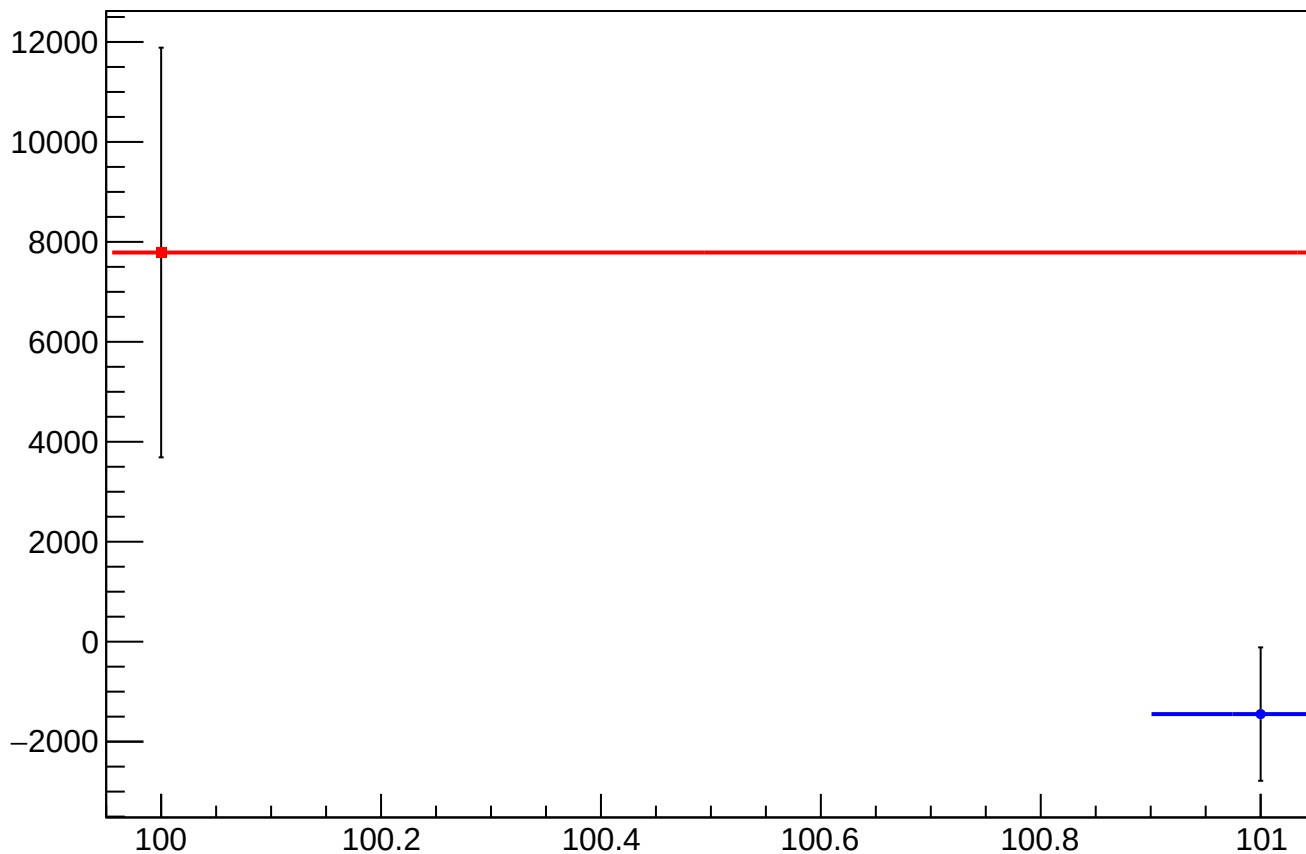
Right: 1049.936+/-0.870  $\chi^2/\text{NDF}$ : 3532.1/1

In: 1035.554+/-0.903  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1049.936+/-0.870  $\chi^2/\text{NDF}$ : 3532.1/1

asym\_usl\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1449.042 $\pm$ 1334.778  $\chi^2$ /NDF: 0.0/0

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

Right Out: 7786.951 $\pm$ 4098.990  $\chi^2$ /NDF: 0.0/0

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

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

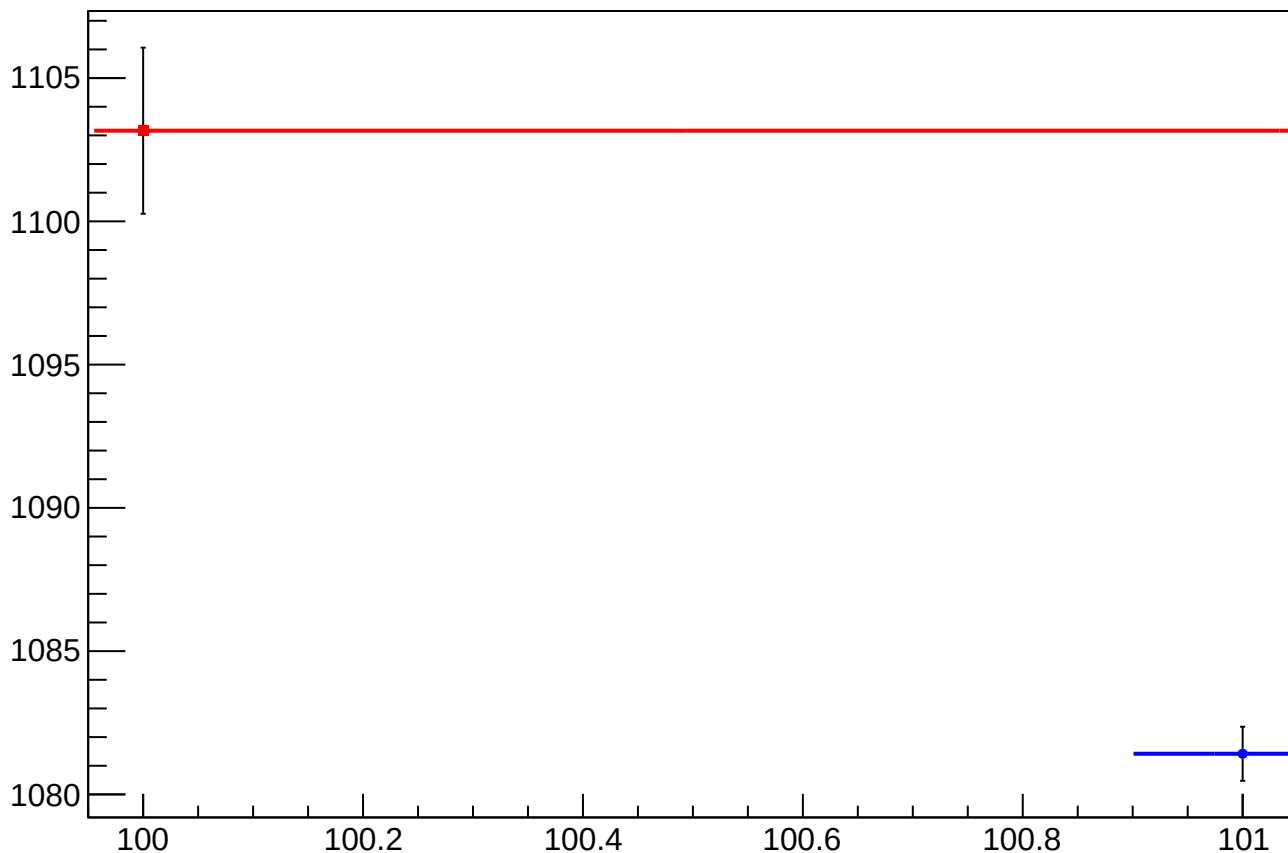
Right: -563.564 $\pm$ 1269.182  $\chi^2$ /NDF: 4.6/1

In: -1449.042 $\pm$ 1334.778  $\chi^2$ /NDF: 0.0/0

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

All: -563.564 $\pm$ 1269.182  $\chi^2$ /NDF: 4.6/1

# asym\_usl\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1081.419 $\pm$ 0.944  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1103.163 $\pm$ 2.898  $\chi^2$ /NDF: 0.0/0

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

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

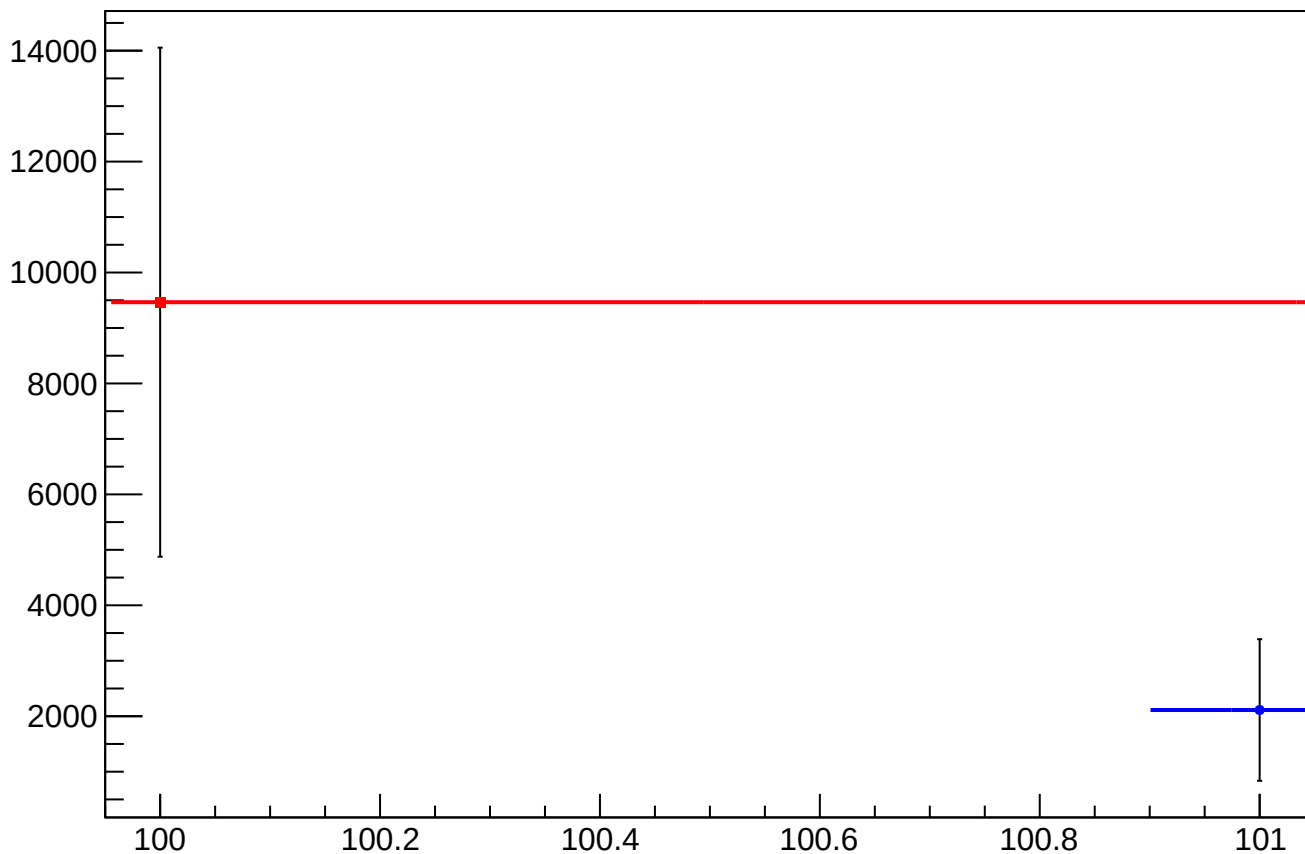
Right: 1083.503 $\pm$ 0.897  $\chi^2$ /NDF: 50.9/1

In: 1081.419 $\pm$ 0.944  $\chi^2$ /NDF: 0.0/0

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

All: 1083.503 $\pm$ 0.897  $\chi^2$ /NDF: 50.9/1

overload\_cor\_asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2112.254+/-1276.451  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 9465.032+/-4589.057  $\chi^2/\text{NDF}$ : 0.0/0

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

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

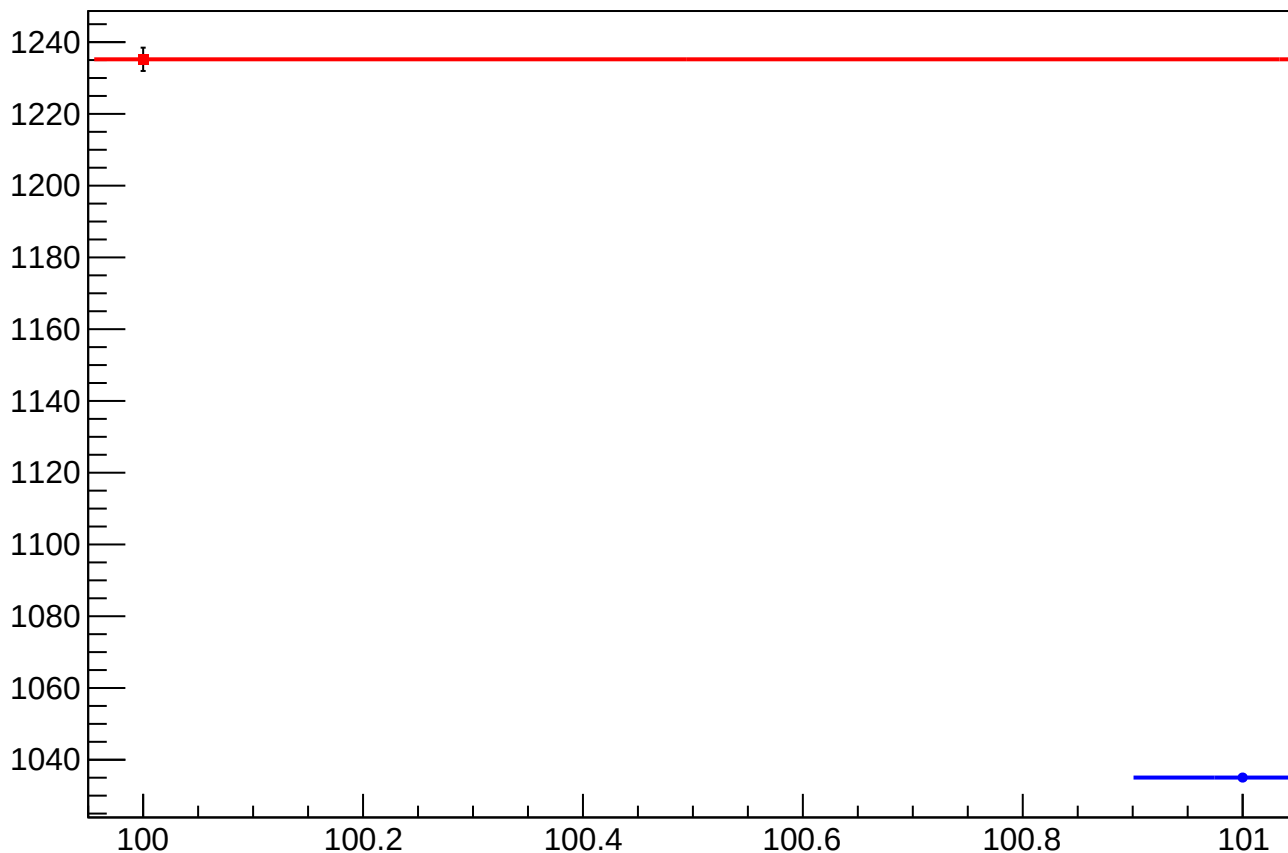
Right: 2640.271+/-1229.765  $\chi^2/\text{NDF}$ : 2.4/1

In: 2112.254+/-1276.451  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2640.271+/-1229.765  $\chi^2/\text{NDF}$ : 2.4/1

# overload\_cor\_asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1035.039+/-0.903  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1235.210+/-3.245  $\chi^2/\text{NDF}$ : 0.0/0

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

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

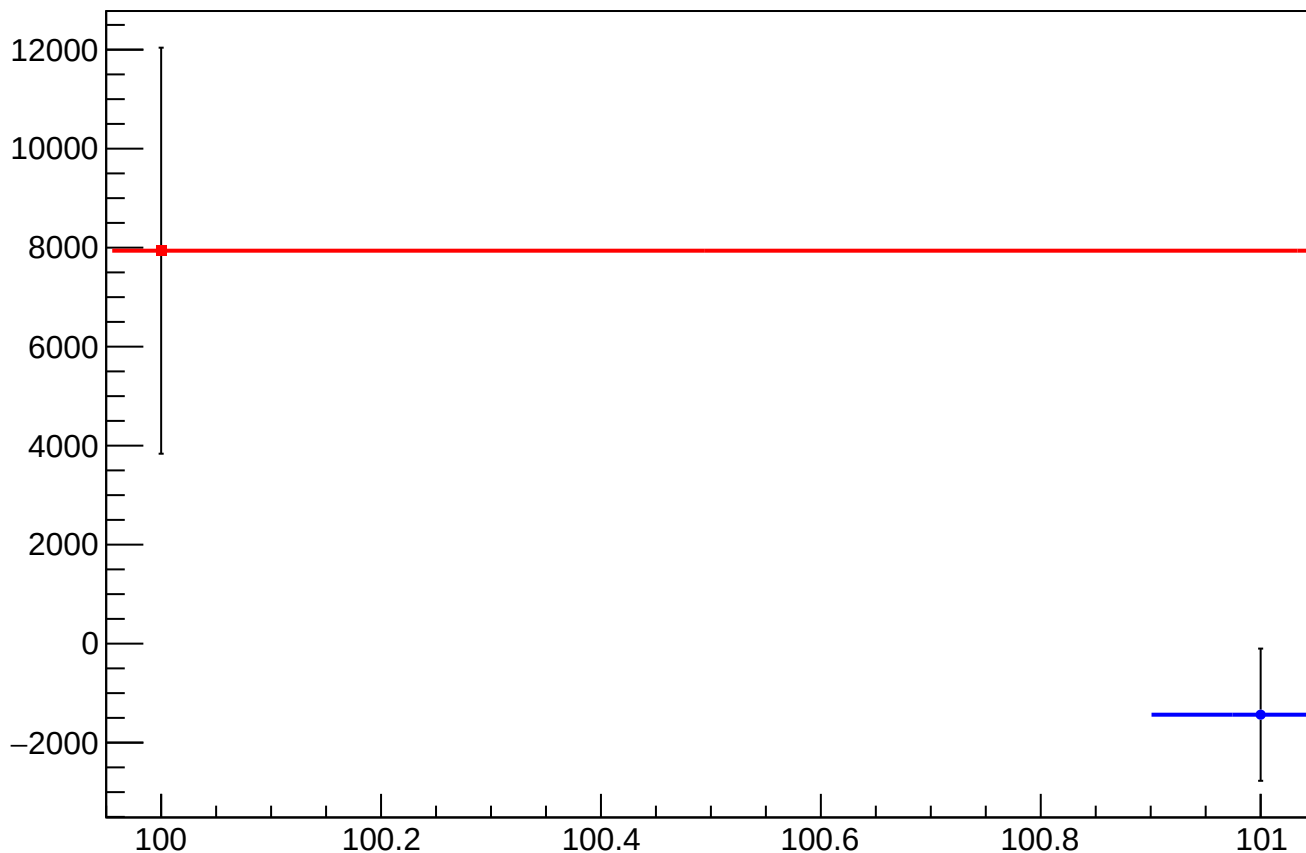
Right: 1049.414+/-0.870  $\chi^2/\text{NDF}$ : 3532.0/1

In: 1035.039+/-0.903  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1049.414+/-0.870  $\chi^2/\text{NDF}$ : 3532.0/1

asym\_usl\_overload\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1435.741+/-1335.390  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 7938.539+/-4101.592  $\chi^2/\text{NDF}$ : 0.0/0

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

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

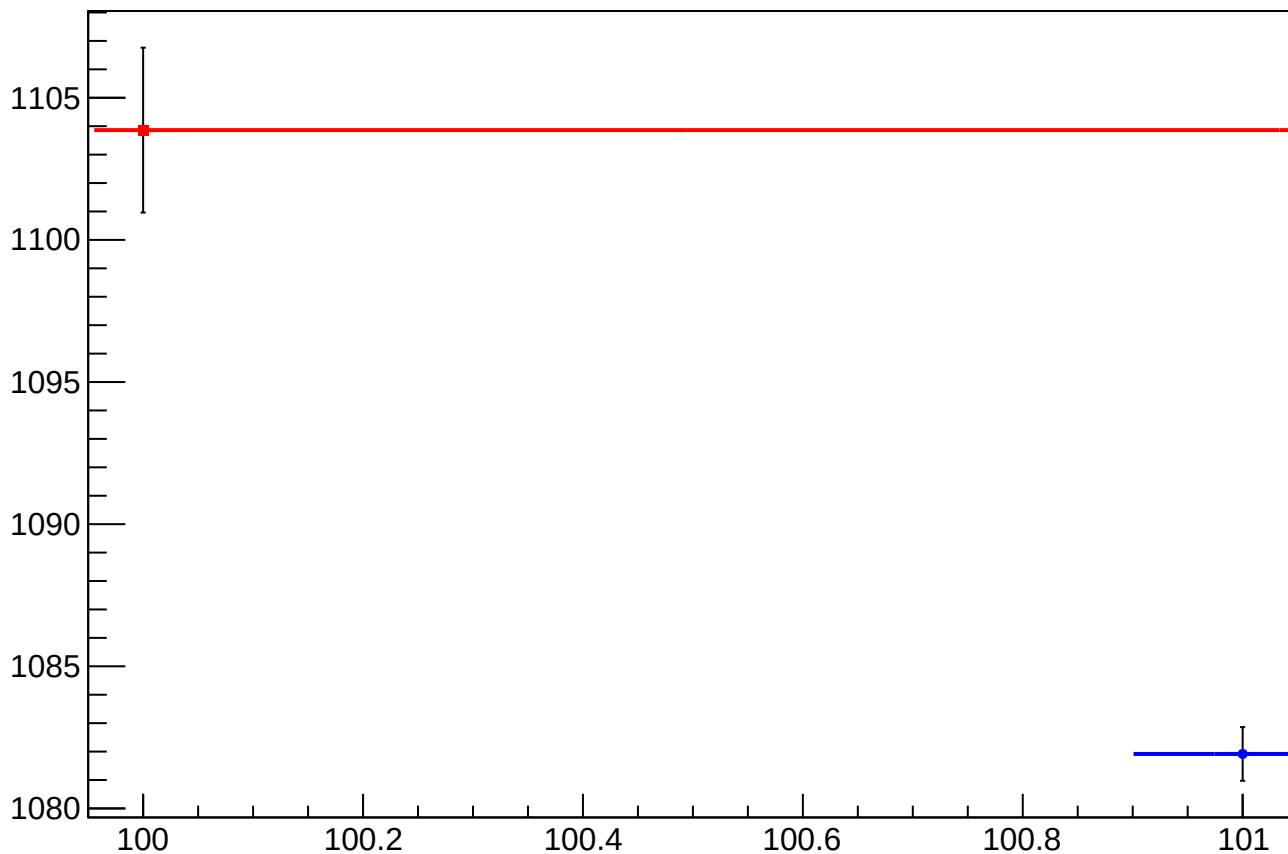
Right: -537.291+/-1269.786  $\chi^2/\text{NDF}$ : 4.7/1

In: -1435.741+/-1335.390  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -537.291+/-1269.786  $\chi^2/\text{NDF}$ : 4.7/1

asym\_usl\_overload\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1081.917 $\pm$ 0.944  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1103.862 $\pm$ 2.900  $\chi^2$ /NDF: 0.0/0

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

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

Right: 1084.020 $\pm$ 0.898  $\chi^2$ /NDF: 51.8/1

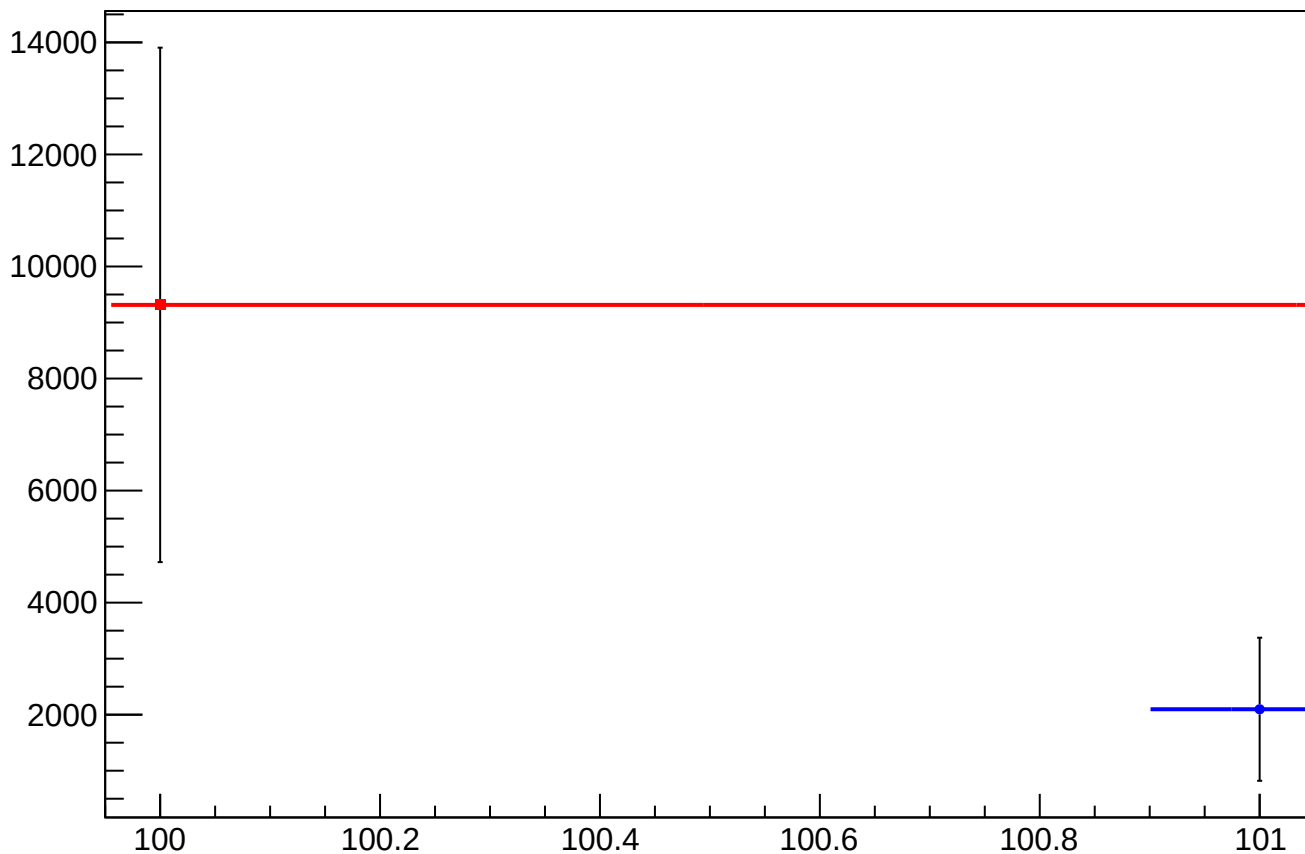
In: 1081.917 $\pm$ 0.944  $\chi^2$ /NDF: 0.0/0

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

All: 1084.020 $\pm$ 0.898  $\chi^2$ /NDF: 51.8/1



# eigen\_cor\_asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2097.033+/-1277.084  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 9314.596+/-4591.351  $\chi^2/\text{NDF}$ : 0.0/0

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

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

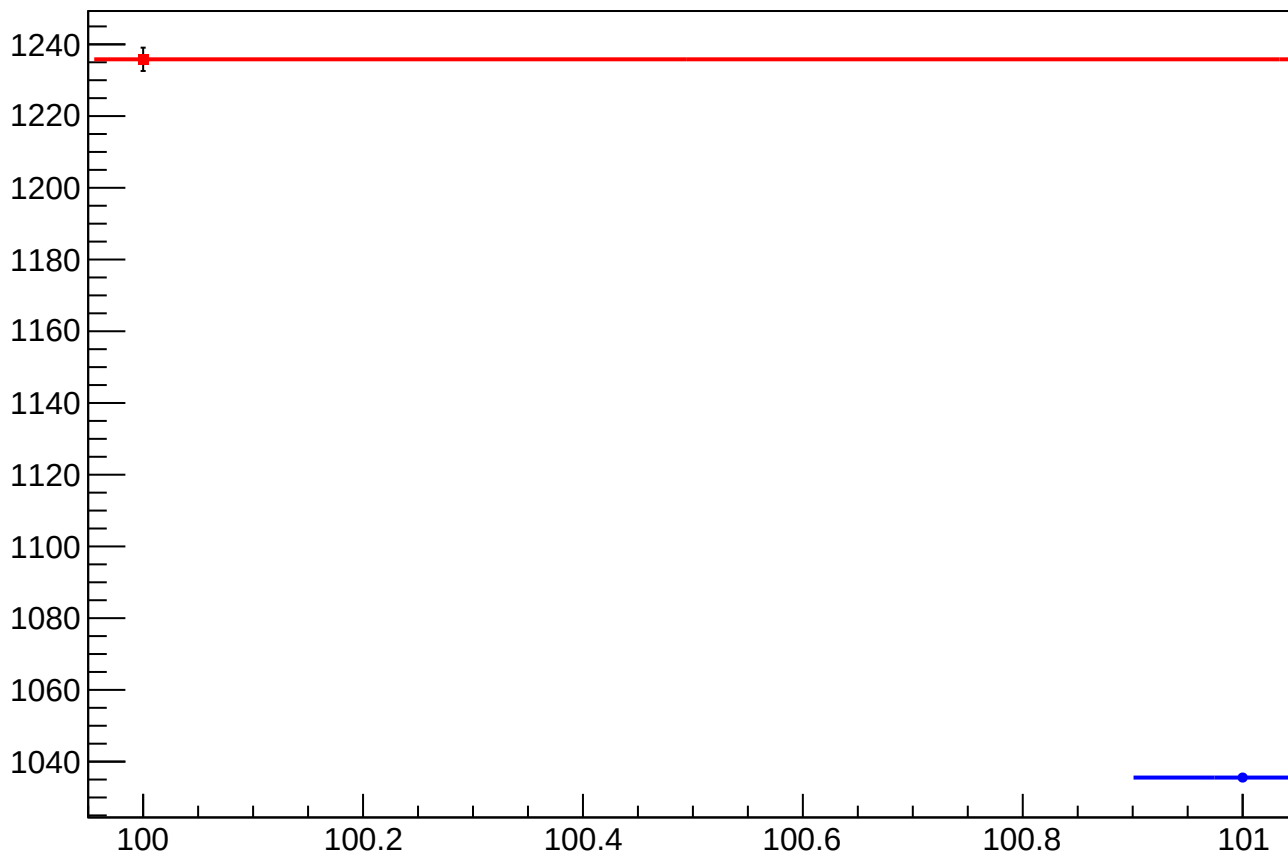
Right: 2615.337+/-1230.375  $\chi^2/\text{NDF}$ : 2.3/1

In: 2097.033+/-1277.084  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2615.337+/-1230.375  $\chi^2/\text{NDF}$ : 2.3/1

# eigen\_cor\_asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1035.554+/-0.903  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1235.828+/-3.247  $\chi^2/\text{NDF}$ : 0.0/0

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

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

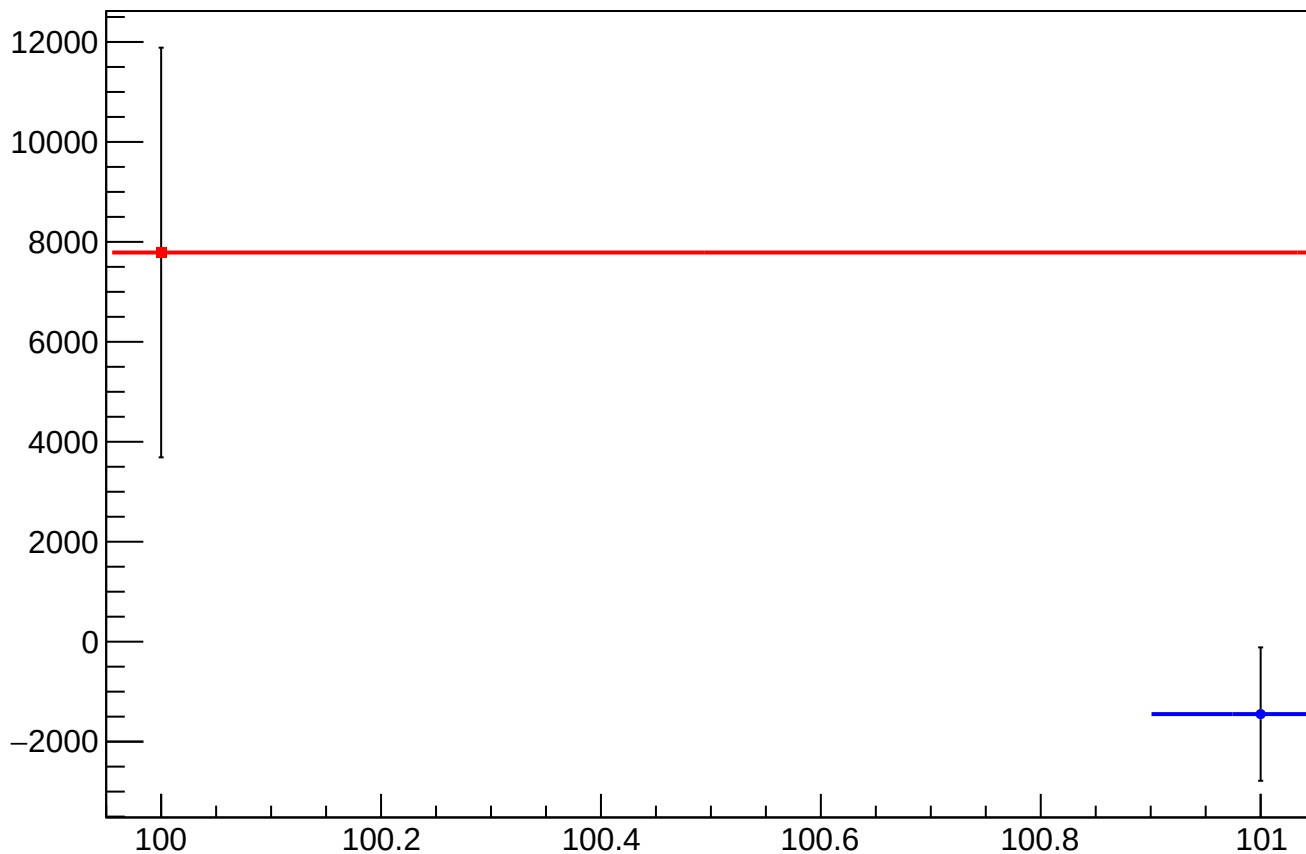
Right: 1049.936+/-0.870  $\chi^2/\text{NDF}$ : 3532.1/1

In: 1035.554+/-0.903  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1049.936+/-0.870  $\chi^2/\text{NDF}$ : 3532.1/1

asym\_usl\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1449.042 $\pm$ 1334.778  $\chi^2$ /NDF: 0.0/0

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

Right Out: 7786.951 $\pm$ 4098.990  $\chi^2$ /NDF: 0.0/0

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

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

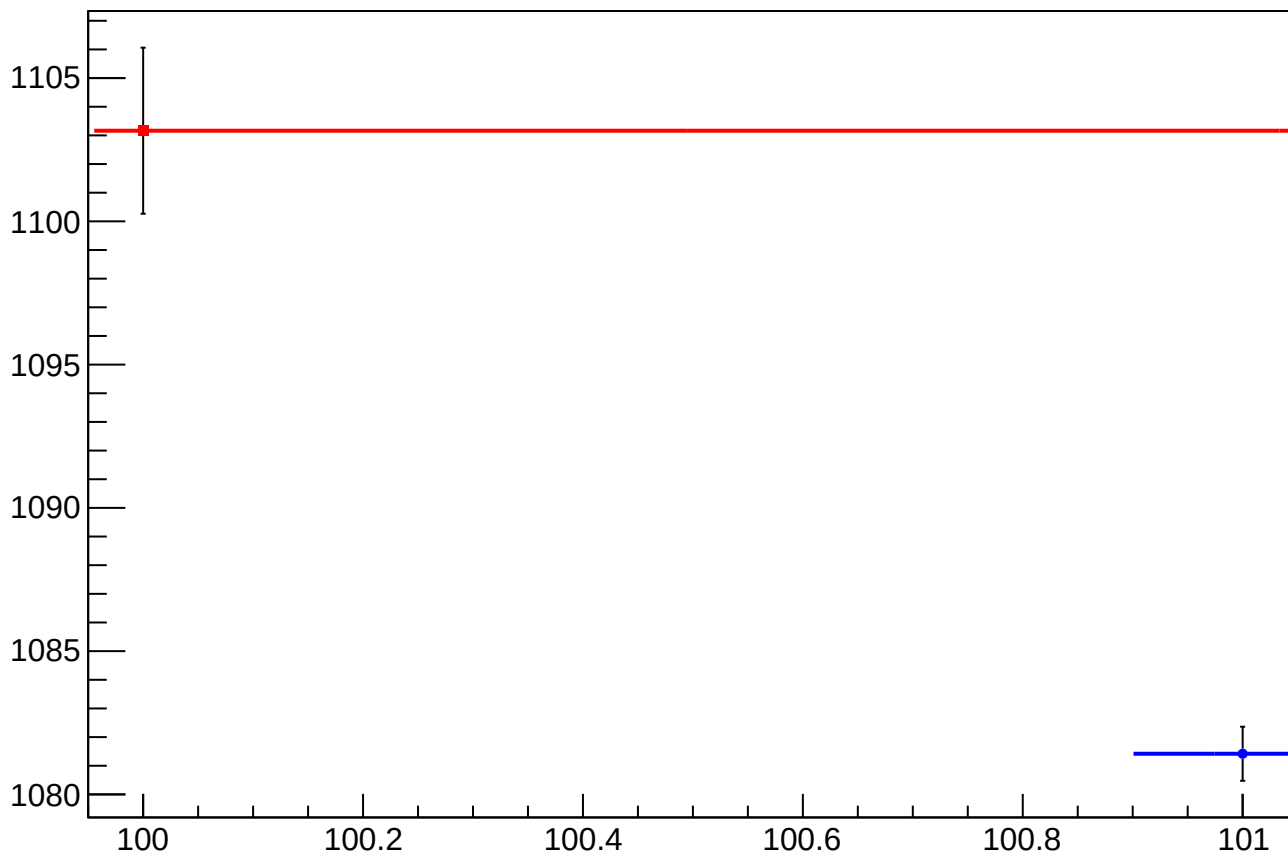
Right: -563.564 $\pm$ 1269.182  $\chi^2$ /NDF: 4.6/1

In: -1449.042 $\pm$ 1334.778  $\chi^2$ /NDF: 0.0/0

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

All: -563.564 $\pm$ 1269.182  $\chi^2$ /NDF: 4.6/1

asym\_usl\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1081.419 $\pm$ 0.944  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1103.163 $\pm$ 2.898  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

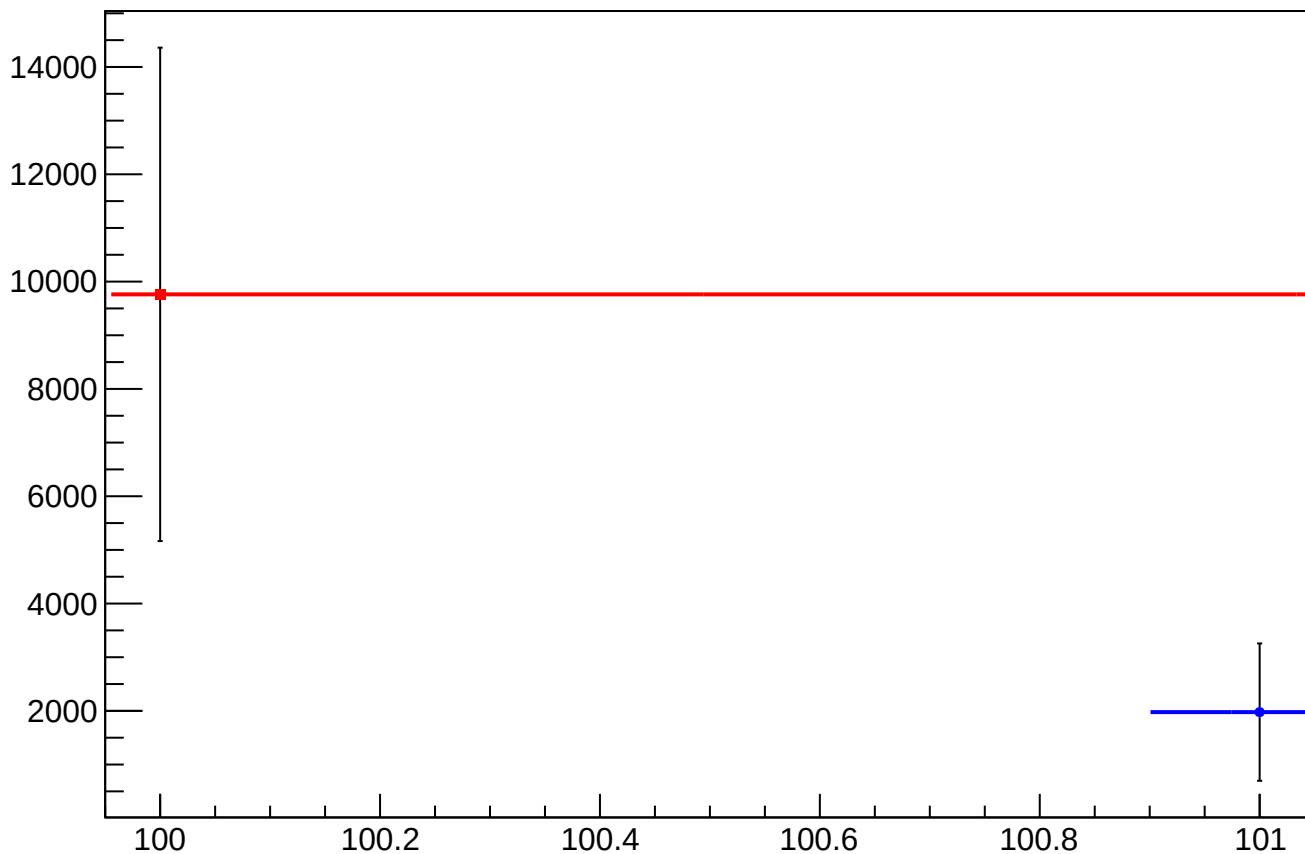
Right: 1083.503 $\pm$ 0.897  $\chi^2/\text{NDF}$ : 50.9/1

In: 1081.419 $\pm$ 0.944  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1083.503 $\pm$ 0.897  $\chi^2/\text{NDF}$ : 50.9/1

# dit\_asym\_usl\_mean vs Slug, Sign Corrected



Right In: 1976.728+/-1279.819  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 9762.182+/-4597.543  $\chi^2/\text{NDF}$ : 0.0/0

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

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

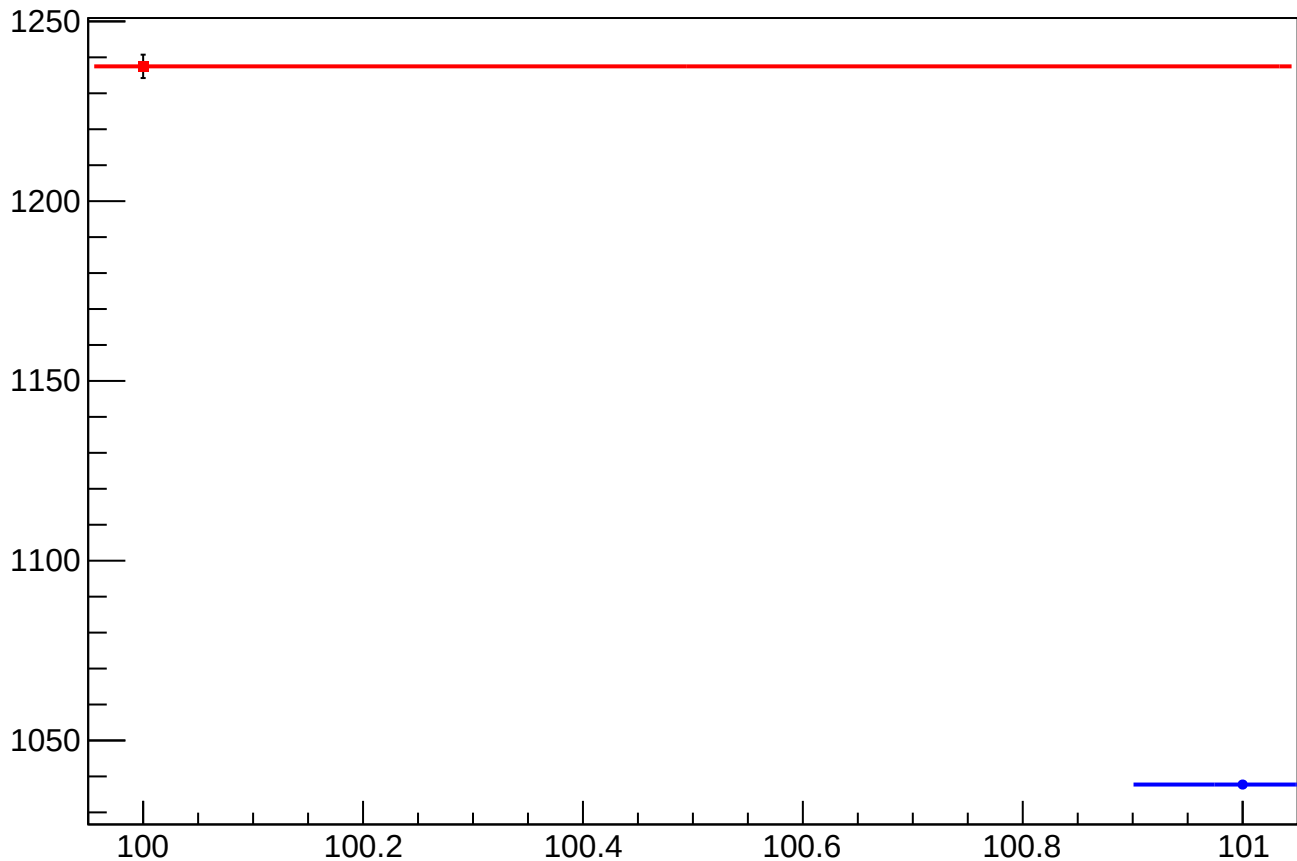
Right: 2536.635+/-1232.940  $\chi^2/\text{NDF}$ : 2.7/1

In: 1976.728+/-1279.819  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2536.635+/-1232.940  $\chi^2/\text{NDF}$ : 2.7/1

# dit\_asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1037.742 $\pm$ 0.905  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1237.491 $\pm$ 3.251  $\chi^2$ /NDF: 0.0/0

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

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

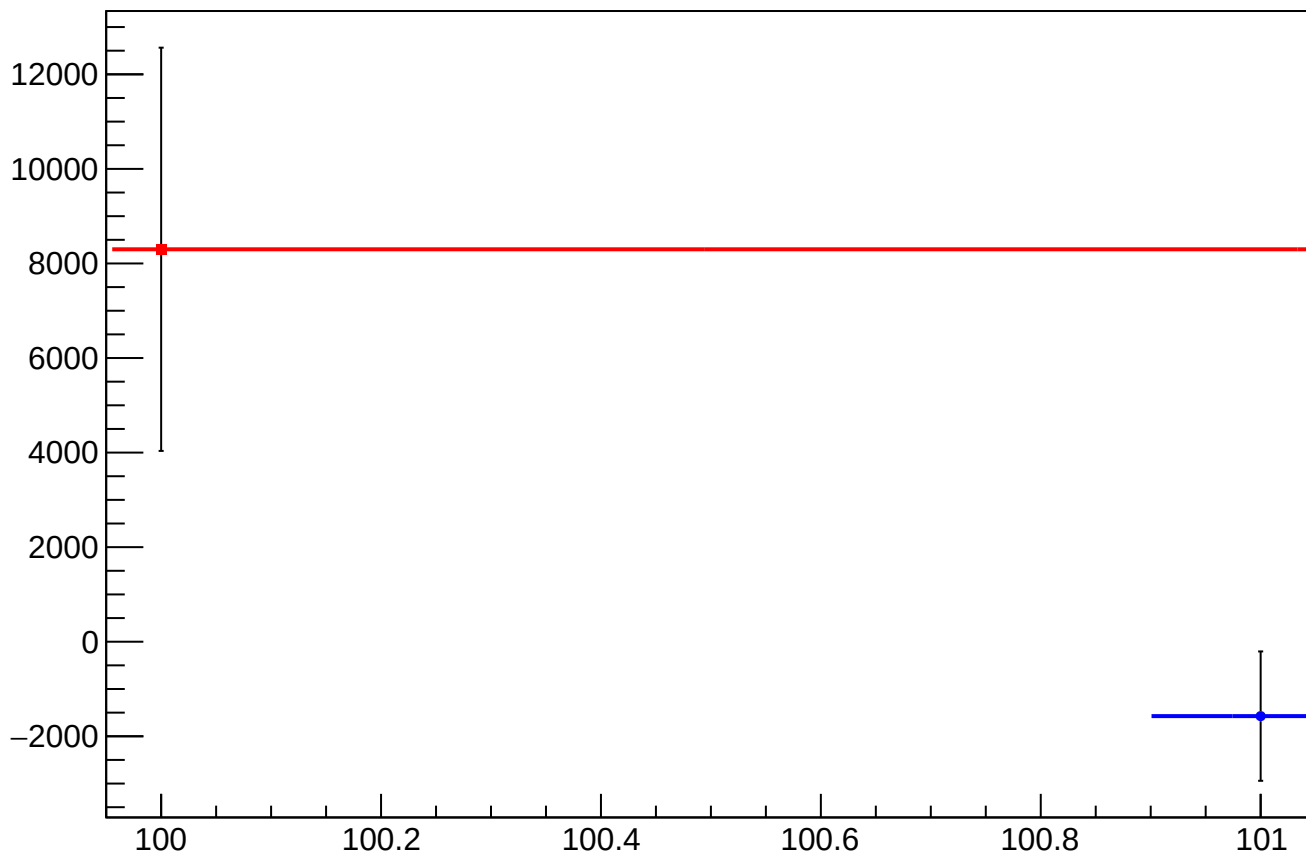
Right: 1052.107 $\pm$ 0.872  $\chi^2$ /NDF: 3503.7/1

In: 1037.742 $\pm$ 0.905  $\chi^2$ /NDF: 0.0/0

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

All: 1052.107 $\pm$ 0.872  $\chi^2$ /NDF: 3503.7/1

asym\_usl\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1573.543+/-1368.010  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8299.620+/-4264.259  $\chi^2/\text{NDF}$ : 0.0/0

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

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

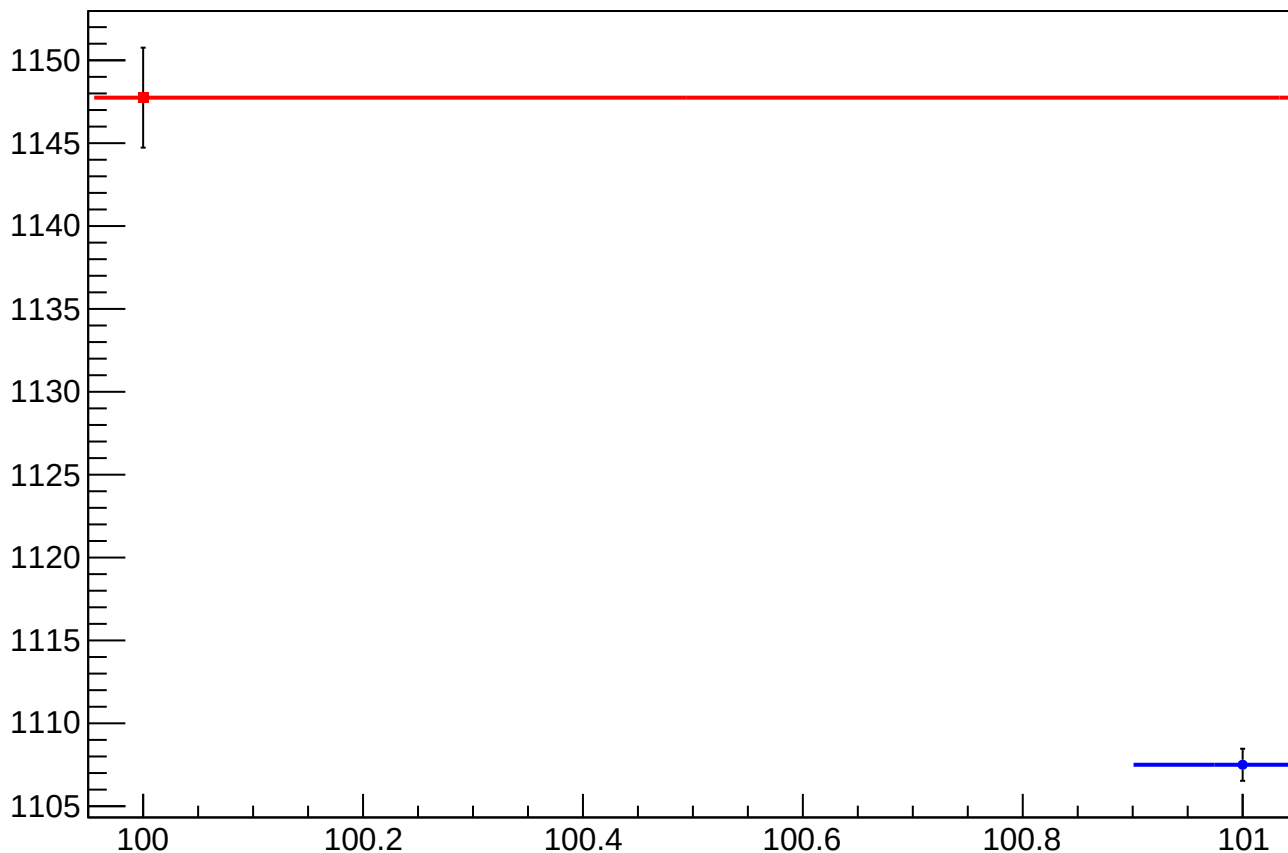
Right: -652.236+/-1302.620  $\chi^2/\text{NDF}$ : 4.9/1

In: -1573.543+/-1368.010  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -652.236+/-1302.620  $\chi^2/\text{NDF}$ : 4.9/1

# asym\_usl\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1107.500±0.967  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1147.746±3.015  $\chi^2$ /NDF: 0.0/0

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

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

Right: 1111.255±0.921  $\chi^2$ /NDF: 161.5/1

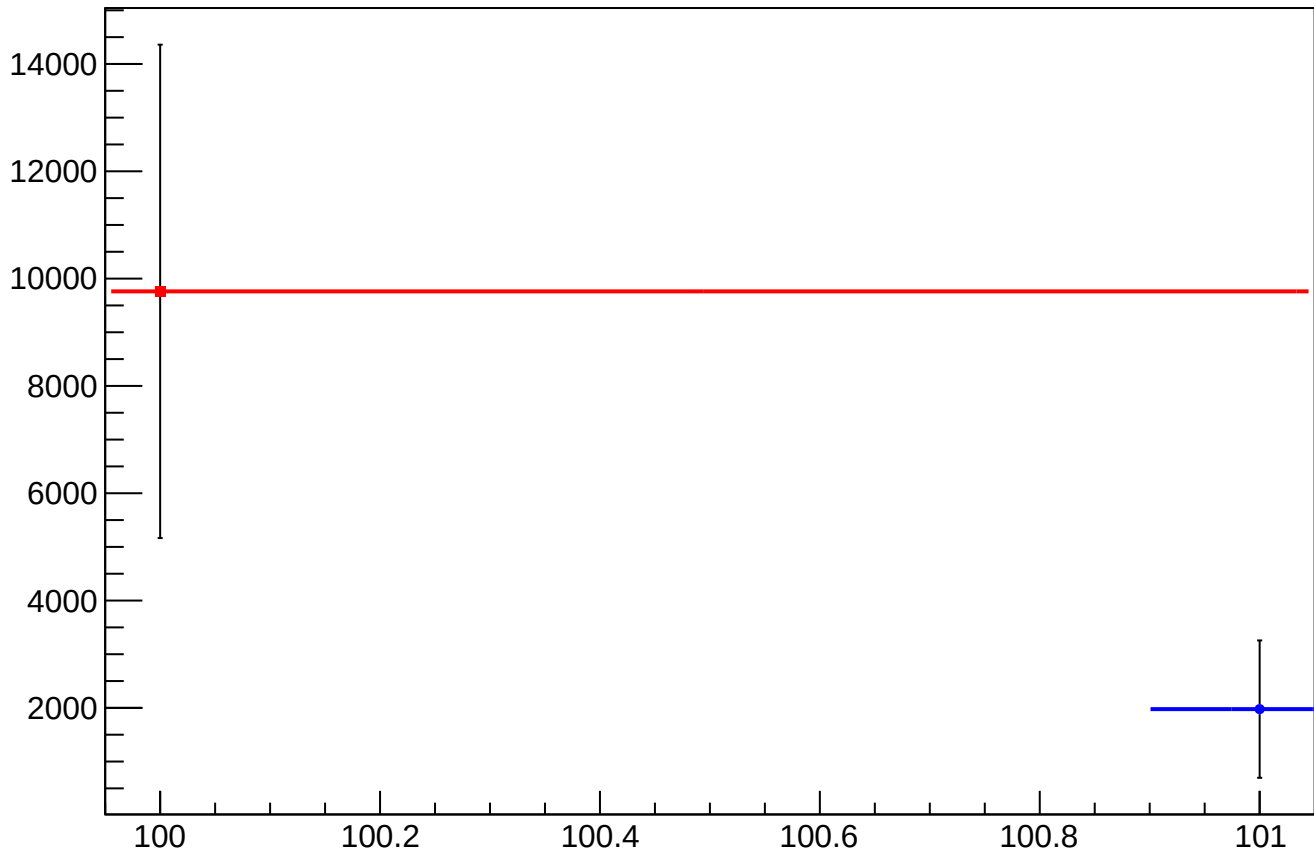
In: 1107.500±0.967  $\chi^2$ /NDF: 0.0/0

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

All: 1111.255±0.921  $\chi^2$ /NDF: 161.5/1



eigen\_dit\_asym\_usl\_mean vs Slug, Sign Corrected



Right In: 1976.728+/-1279.819  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 9762.177+/-4597.543  $\chi^2/\text{NDF}$ : 0.0/0

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

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

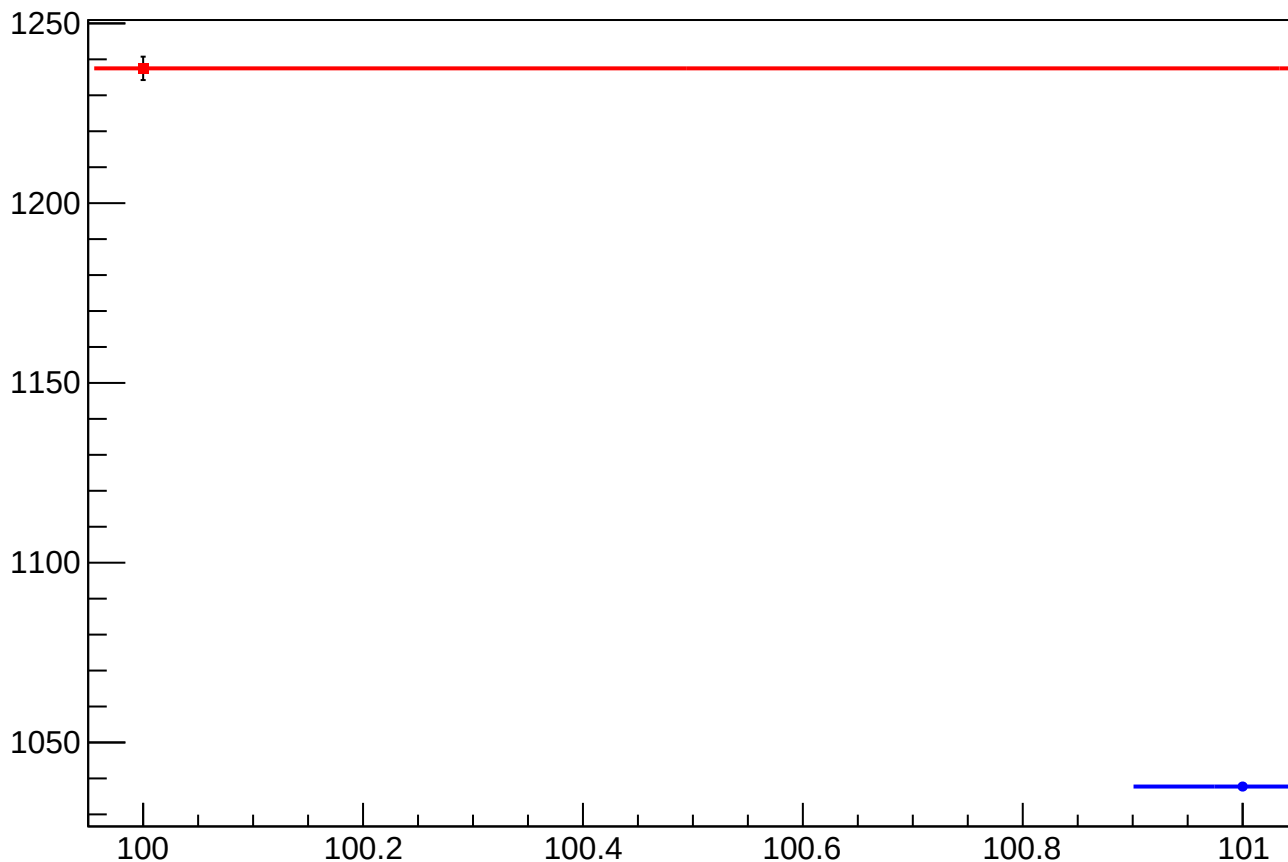
Right: 2536.635+/-1232.940  $\chi^2/\text{NDF}$ : 2.7/1

In: 1976.728+/-1279.819  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2536.635+/-1232.940  $\chi^2/\text{NDF}$ : 2.7/1

# eigen\_dit\_asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1037.742 $\pm$ 0.905  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1237.491 $\pm$ 3.251  $\chi^2$ /NDF: 0.0/0

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

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

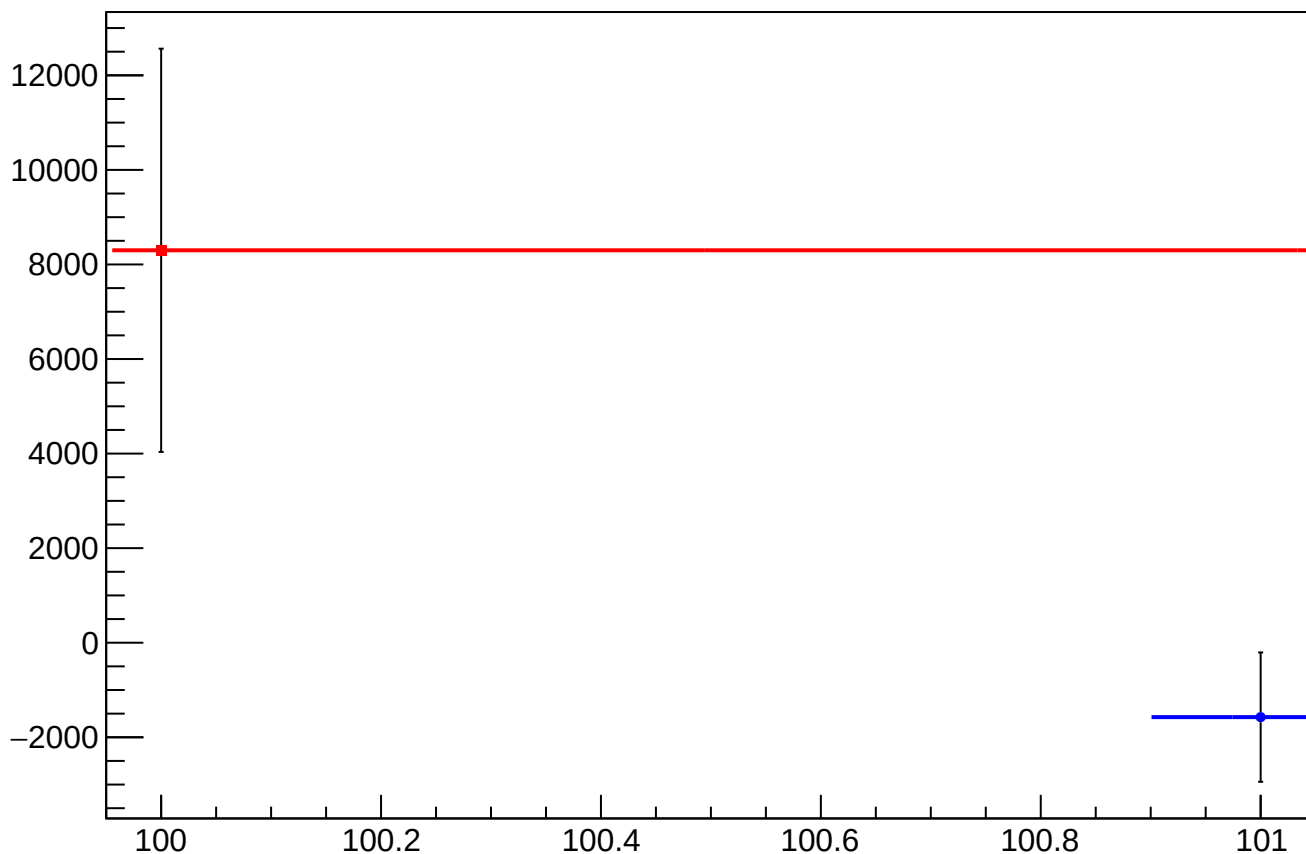
Right: 1052.107 $\pm$ 0.872  $\chi^2$ /NDF: 3503.7/1

In: 1037.742 $\pm$ 0.905  $\chi^2$ /NDF: 0.0/0

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

All: 1052.107 $\pm$ 0.872  $\chi^2$ /NDF: 3503.7/1

asym\_usl\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1573.542+/-1368.008  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8299.616+/-4264.255  $\chi^2/\text{NDF}$ : 0.0/0

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

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

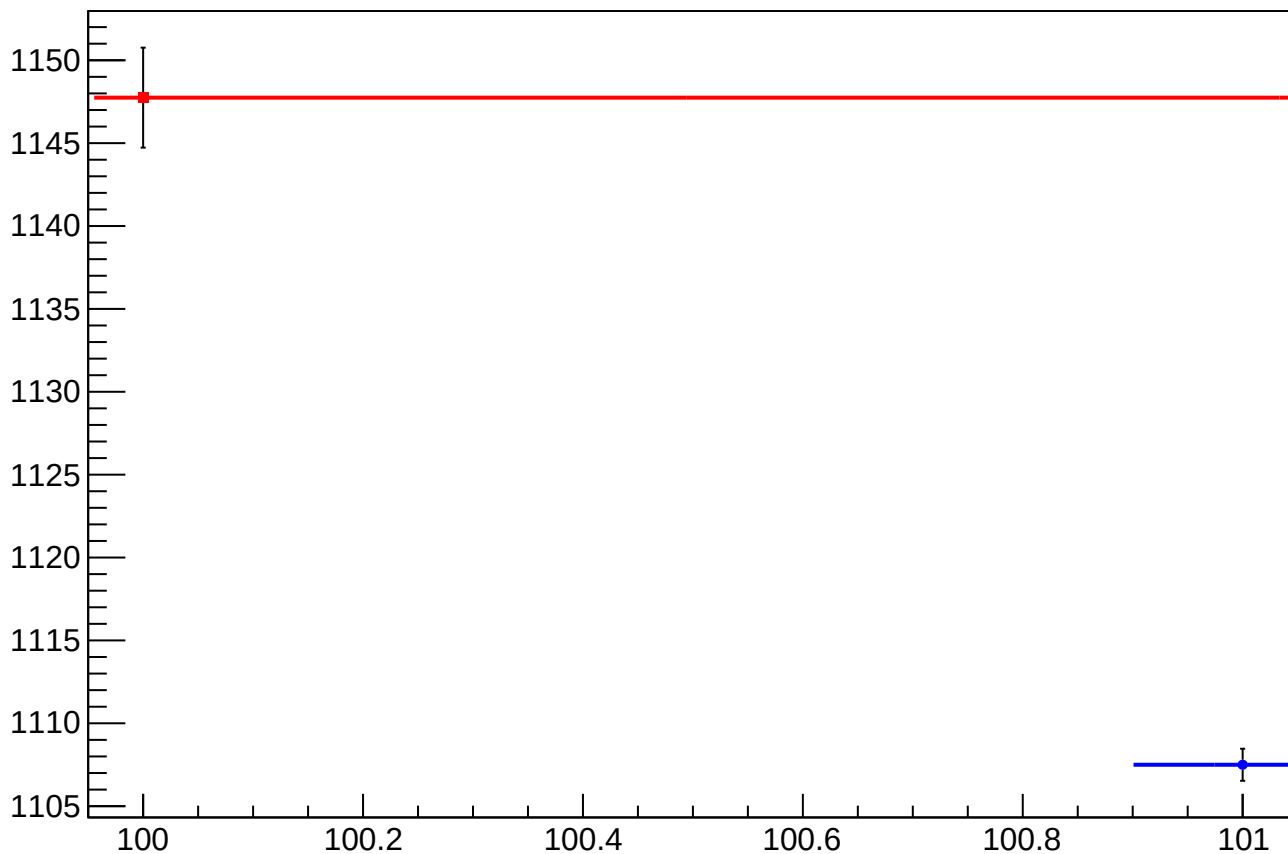
Right: -652.236+/-1302.618  $\chi^2/\text{NDF}$ : 4.9/1

In: -1573.542+/-1368.008  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -652.236+/-1302.618  $\chi^2/\text{NDF}$ : 4.9/1

asym\_usl\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1107.498 $\pm$ 0.967  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1147.745 $\pm$ 3.015  $\chi^2$ /NDF: 0.0/0

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

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

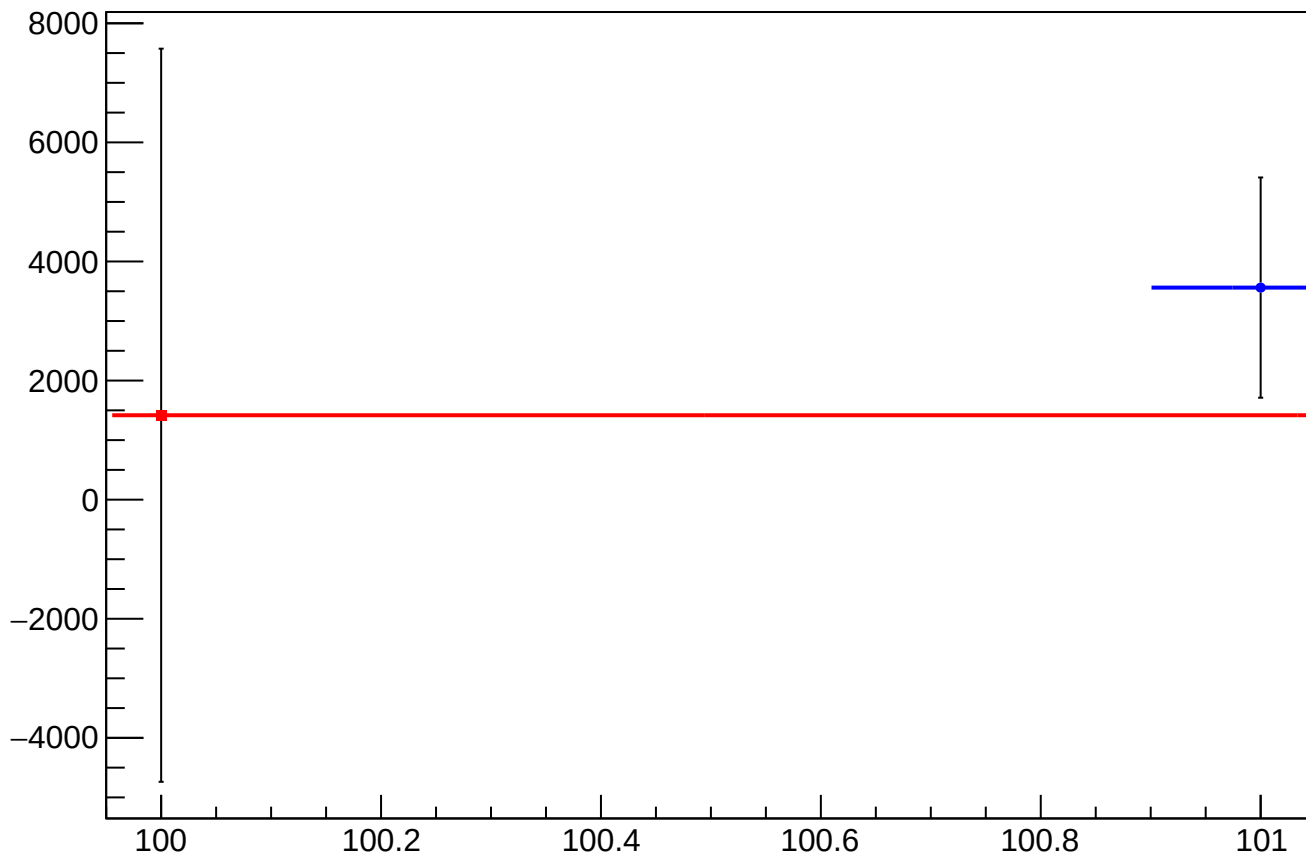
Right: 1111.254 $\pm$ 0.921  $\chi^2$ /NDF: 161.5/1

In: 1107.498 $\pm$ 0.967  $\chi^2$ /NDF: 0.0/0

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

All: 1111.254 $\pm$ 0.921  $\chi^2$ /NDF: 161.5/1

# asym\_usl\_mean vs Slug, Sign Corrected



Right In: 3561.334 $\pm$ 1849.247  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1417.889 $\pm$ 6155.864  $\chi^2$ /NDF: 0.0/0

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

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

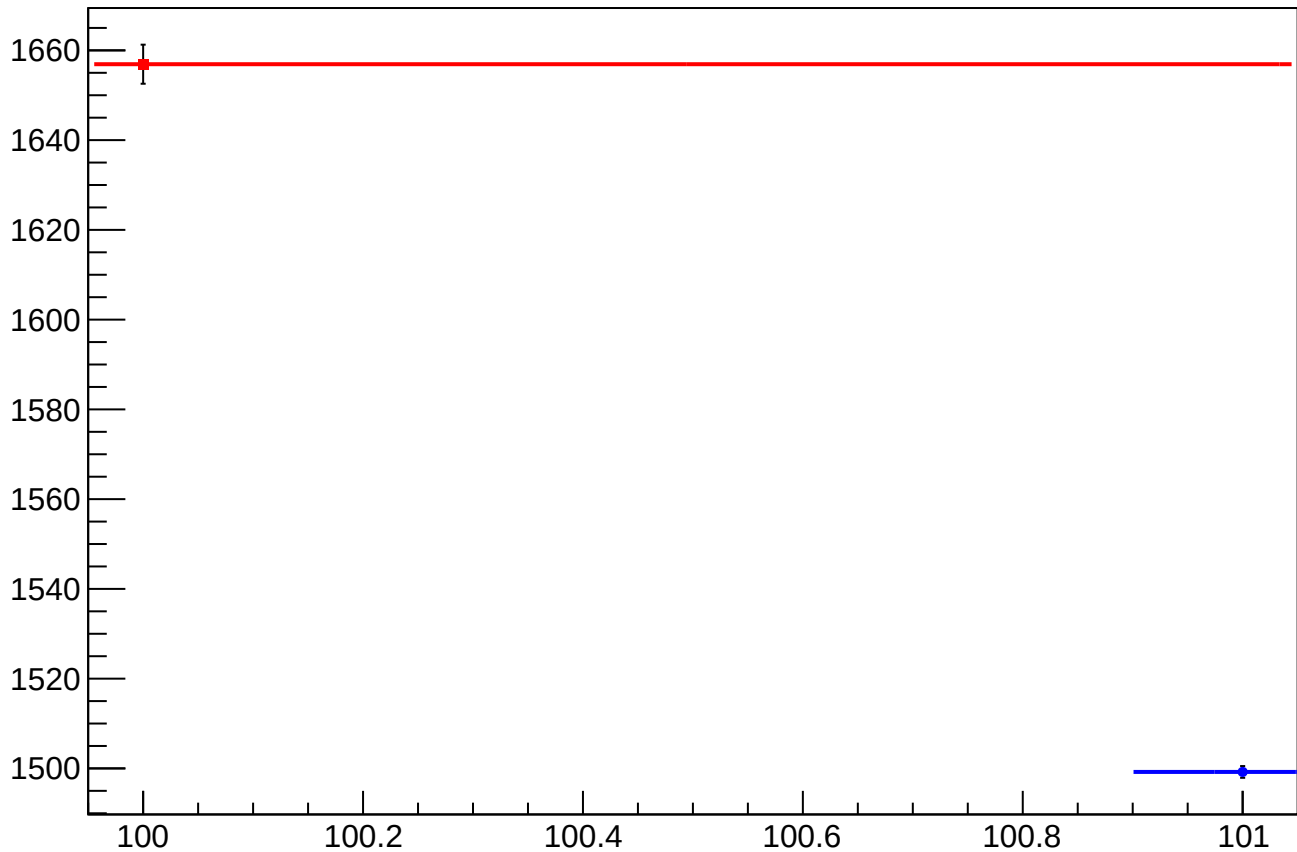
Right: 3383.914 $\pm$ 1771.060  $\chi^2$ /NDF: 0.1/1

In: 3561.334 $\pm$ 1849.247  $\chi^2$ /NDF:0.0/0

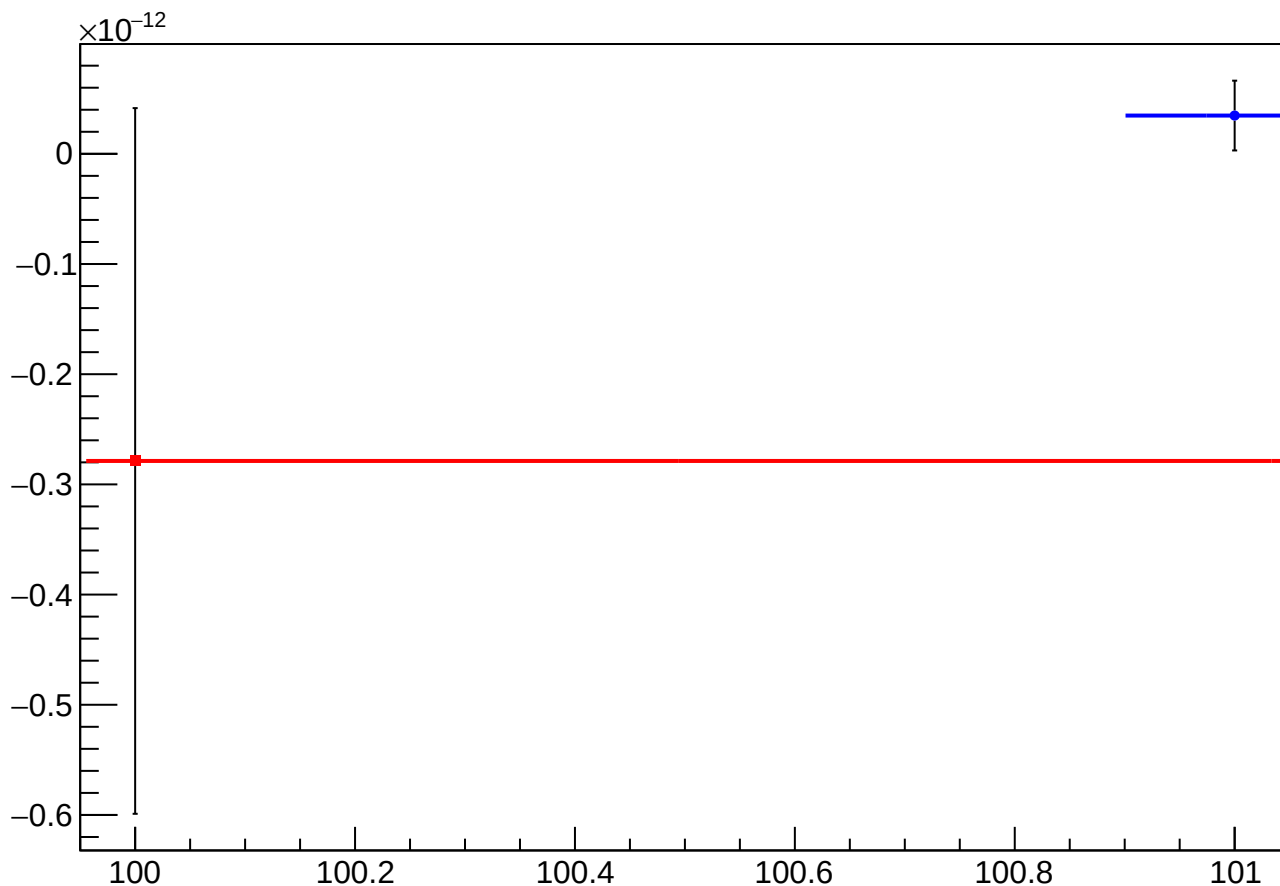
Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3383.914 $\pm$ 1771.060  $\chi^2$ /NDF: 0.1/1

# asym\_usl\_rms vs Slug, Sign Corrected



asym\_usl\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

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

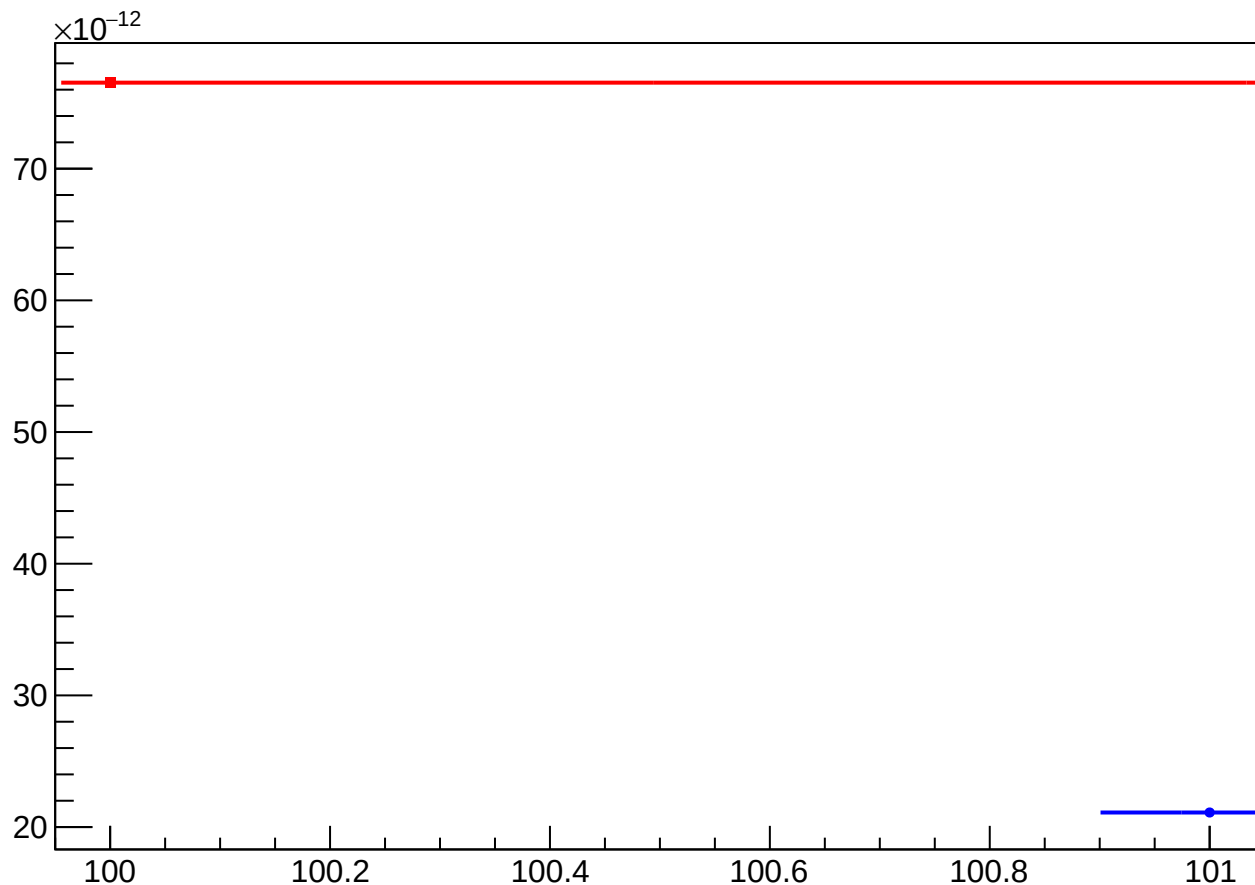
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

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

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

asym\_usl\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59339.3/1

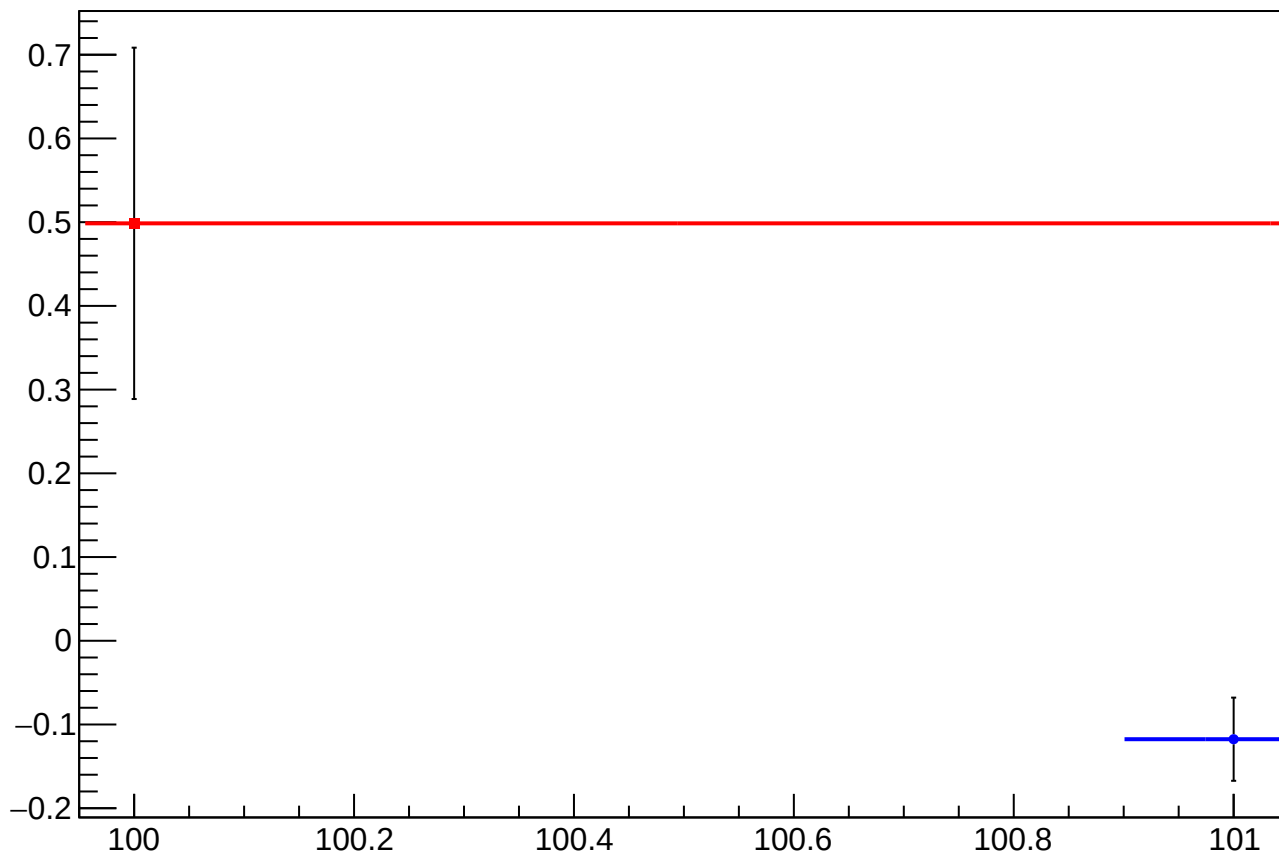
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59339.3/1



asym\_usl\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.118+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.499+/-0.210  $\chi^2/\text{NDF}$ : 0.0/0

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

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

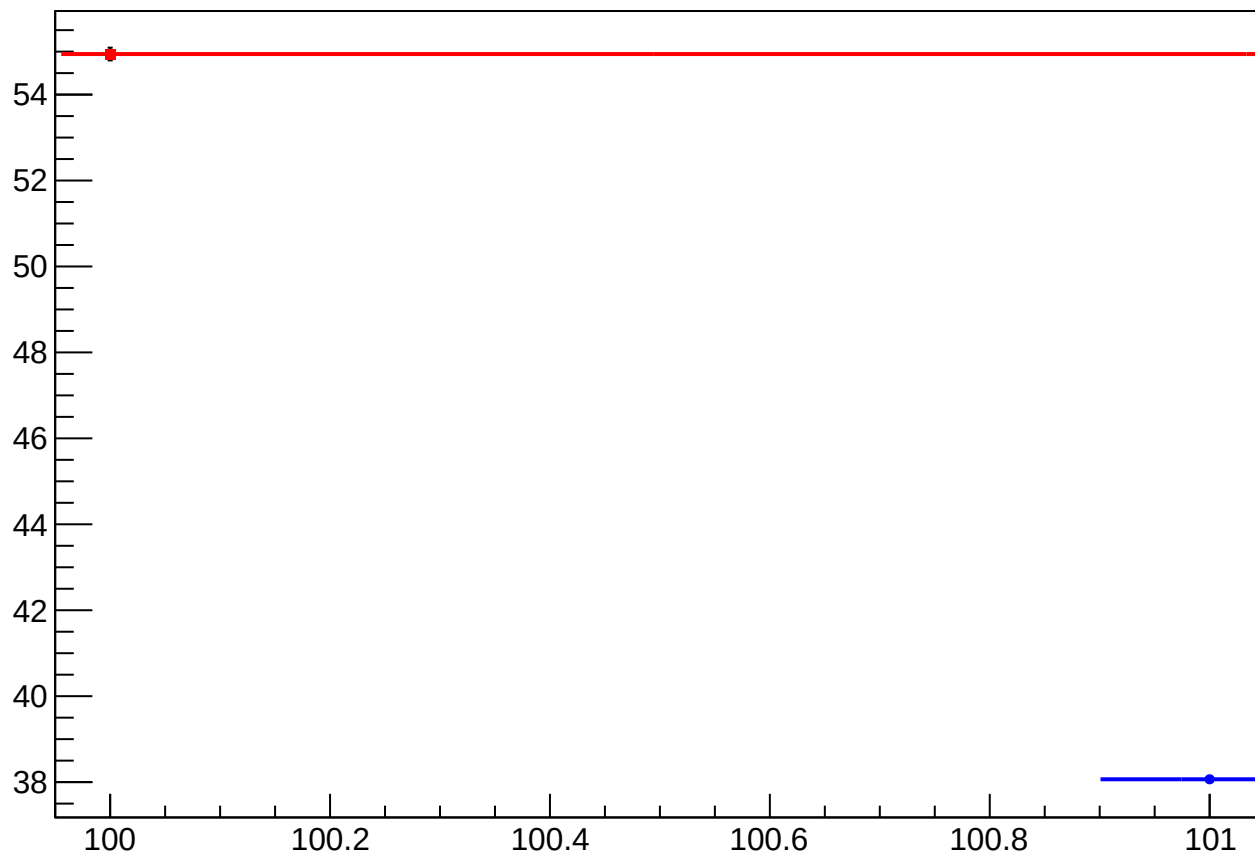
Right: -0.085+/-0.048  $\chi^2/\text{NDF}$ : 8.2/1

In: -0.118+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.085+/-0.048  $\chi^2/\text{NDF}$ : 8.2/1

asym\_usl\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 38.066 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

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

Right Out: 54.944 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/0

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

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

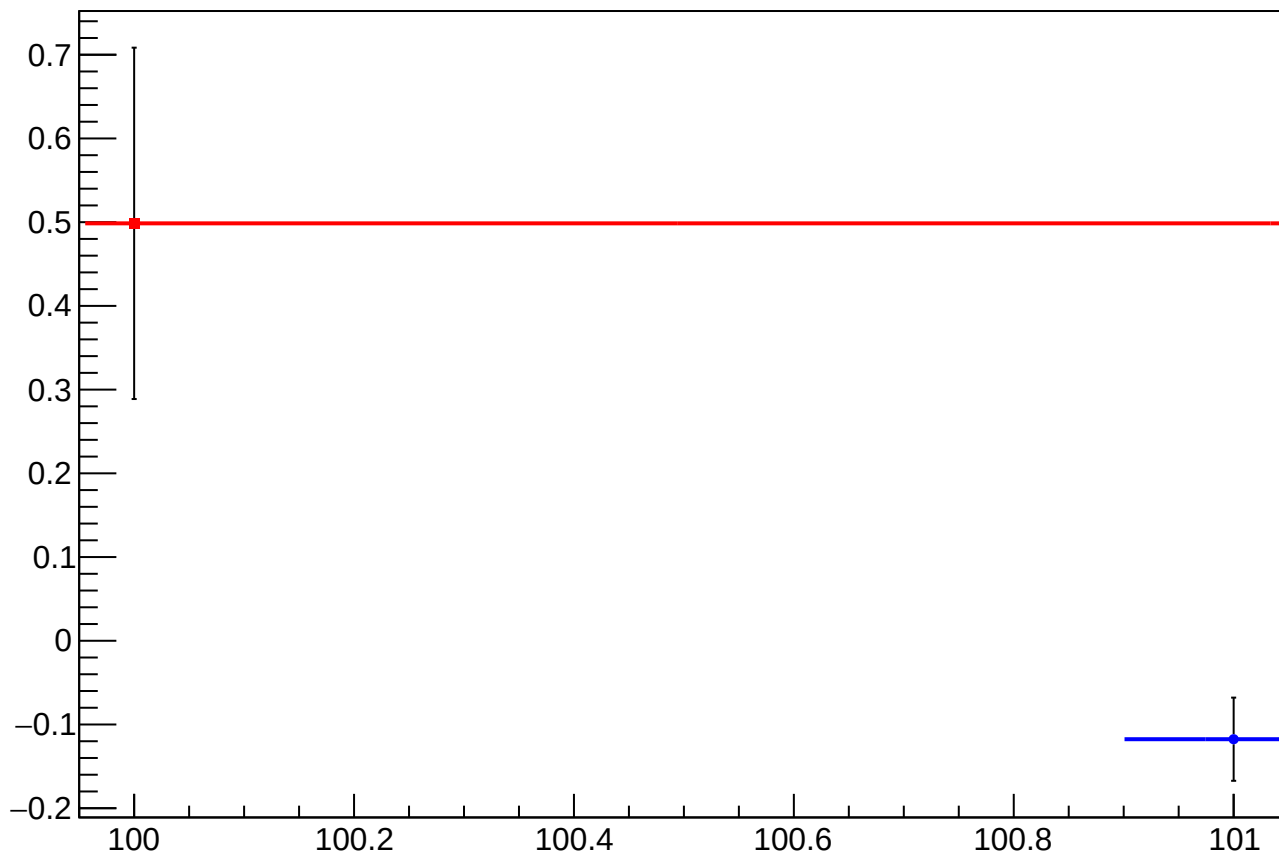
Right: 38.962 $\pm$ 0.034  $\chi^2$ /NDF: 12251.9/1

In: 38.066 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

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

All: 38.962 $\pm$ 0.034  $\chi^2$ /NDF: 12251.9/1

asym\_usl\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.118 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.499 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

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

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

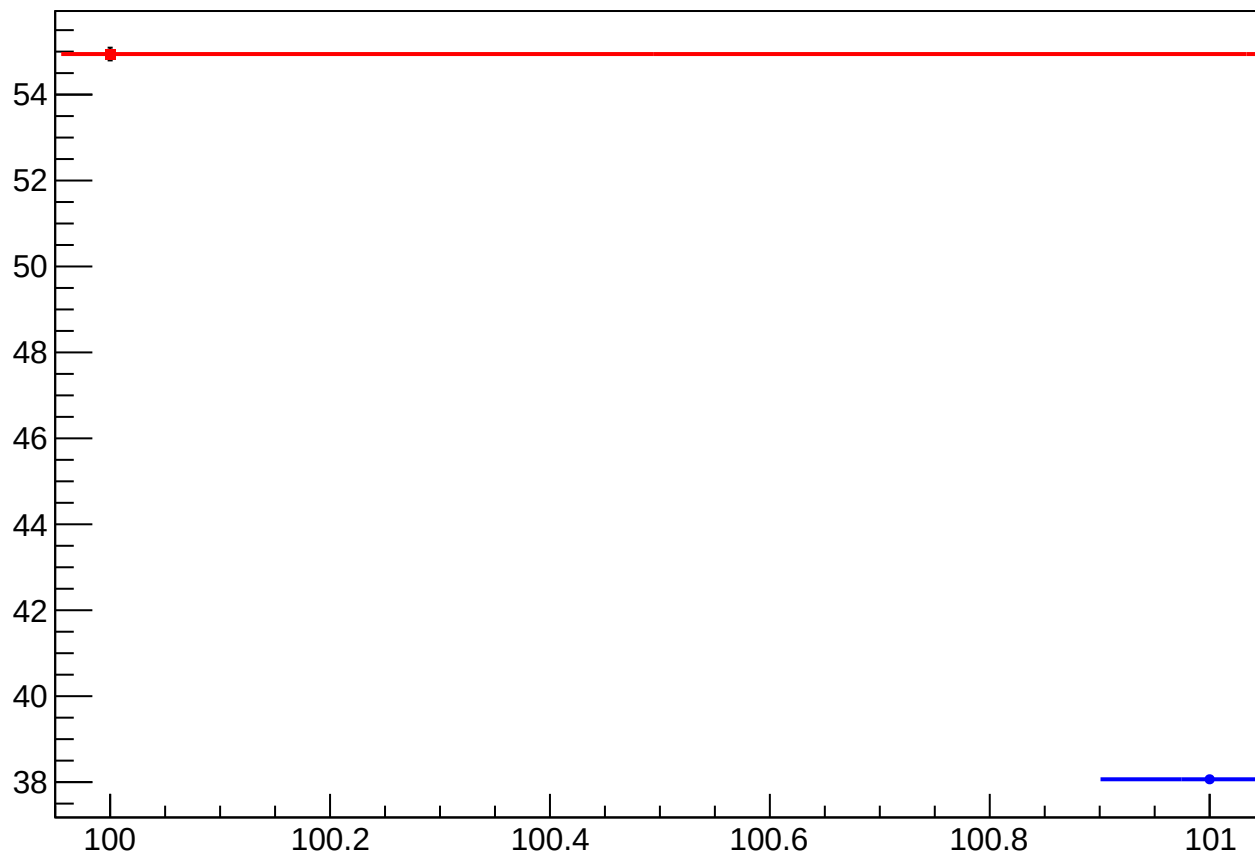
Right: -0.085 $\pm$ 0.048  $\chi^2$ /NDF: 8.2/1

In: -0.118 $\pm$ 0.050  $\chi^2$ /NDF:0.0/0

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

All: -0.085 $\pm$ 0.048  $\chi^2$ /NDF: 8.2/1

asym\_usl\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 38.066+/-0.035  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 54.944+/-0.148  $\chi^2/\text{NDF}$ : 0.0/0

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

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

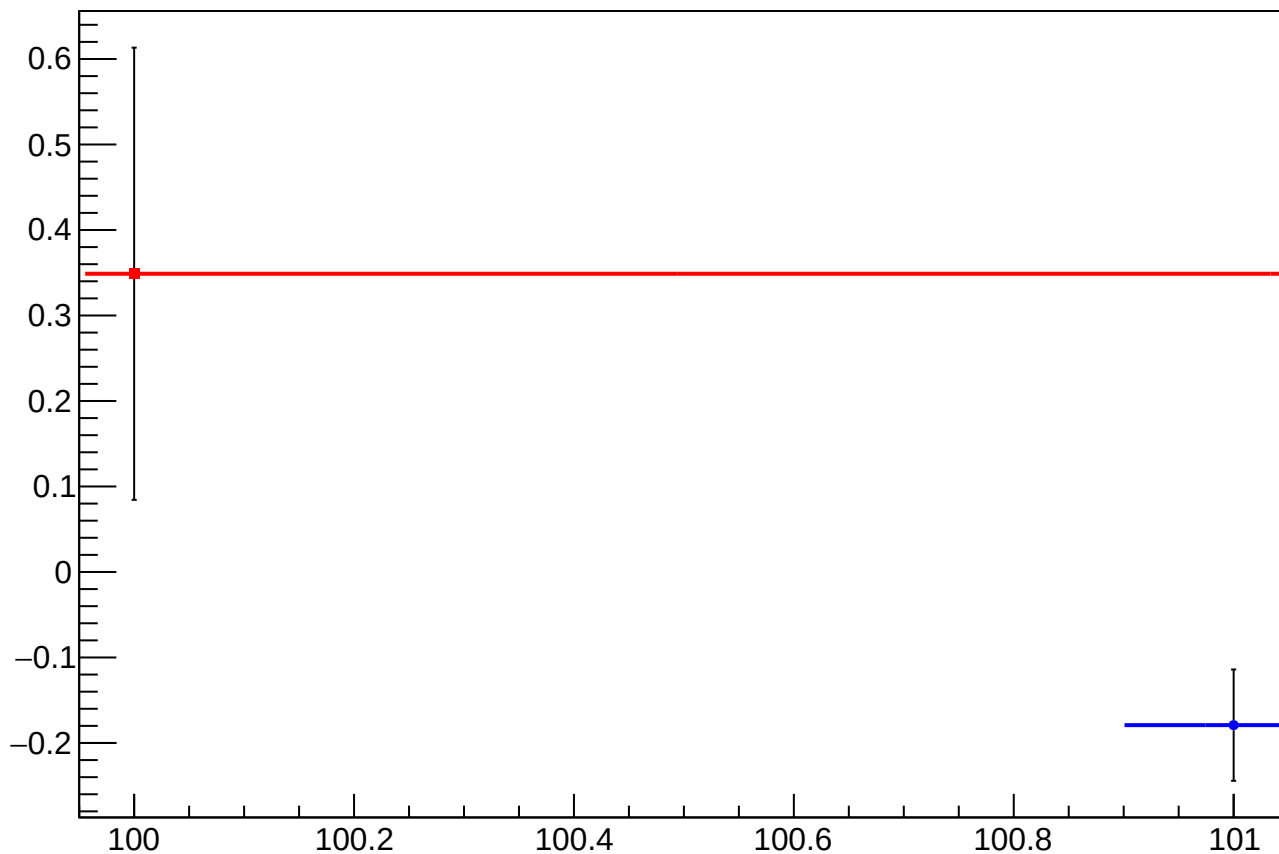
Right: 38.962+/-0.034  $\chi^2/\text{NDF}$ : 12251.9/1

In: 38.066+/-0.035  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 38.962+/-0.034  $\chi^2/\text{NDF}$ : 12251.9/1

asym\_usl\_dit\_vs\_overload\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.179 $\pm$ 0.065  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.349 $\pm$ 0.264  $\chi^2$ /NDF: 0.0/0

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

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

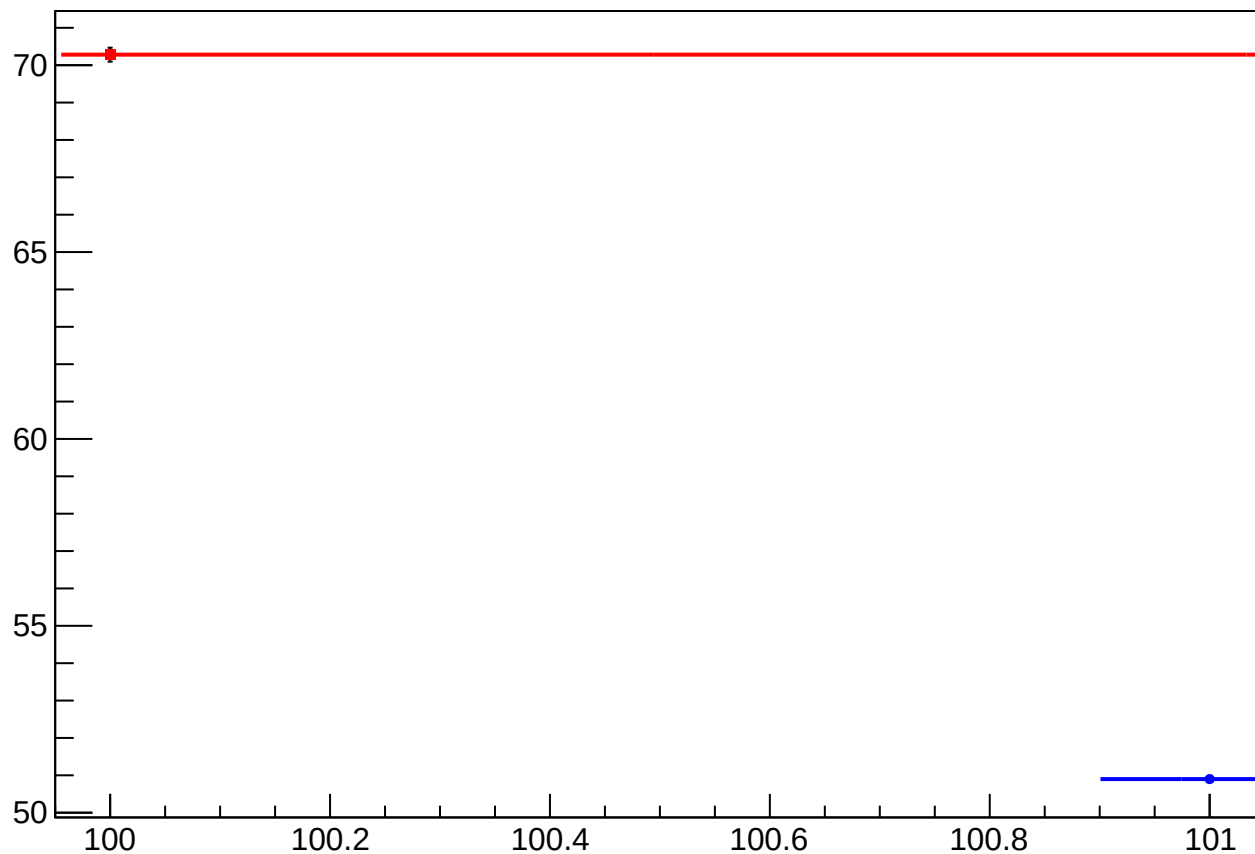
Right: -0.149 $\pm$ 0.063  $\chi^2$ /NDF: 3.8/1

In: -0.179 $\pm$ 0.065  $\chi^2$ /NDF: 0.0/0

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

All: -0.149 $\pm$ 0.063  $\chi^2$ /NDF: 3.8/1

asym\_usl\_dit\_vs\_overload\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 50.899+/-0.046  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 70.282+/-0.187  $\chi^2/\text{NDF}$ : 0.0/0

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

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

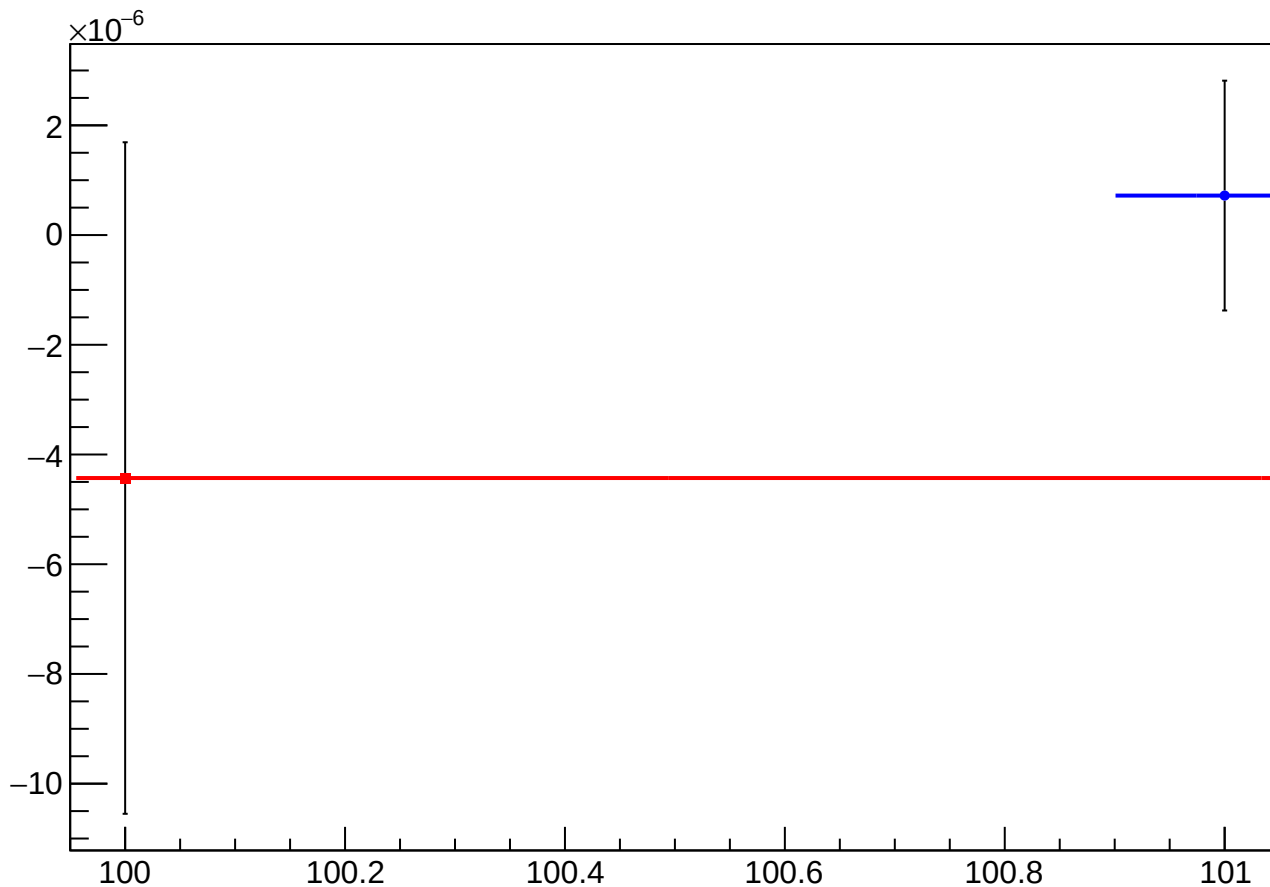
Right: 52.007+/-0.045  $\chi^2/\text{NDF}$ : 10130.3/1

In: 50.899+/-0.046  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 52.007+/-0.045  $\chi^2/\text{NDF}$ : 10130.3/1

asym\_usl\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

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

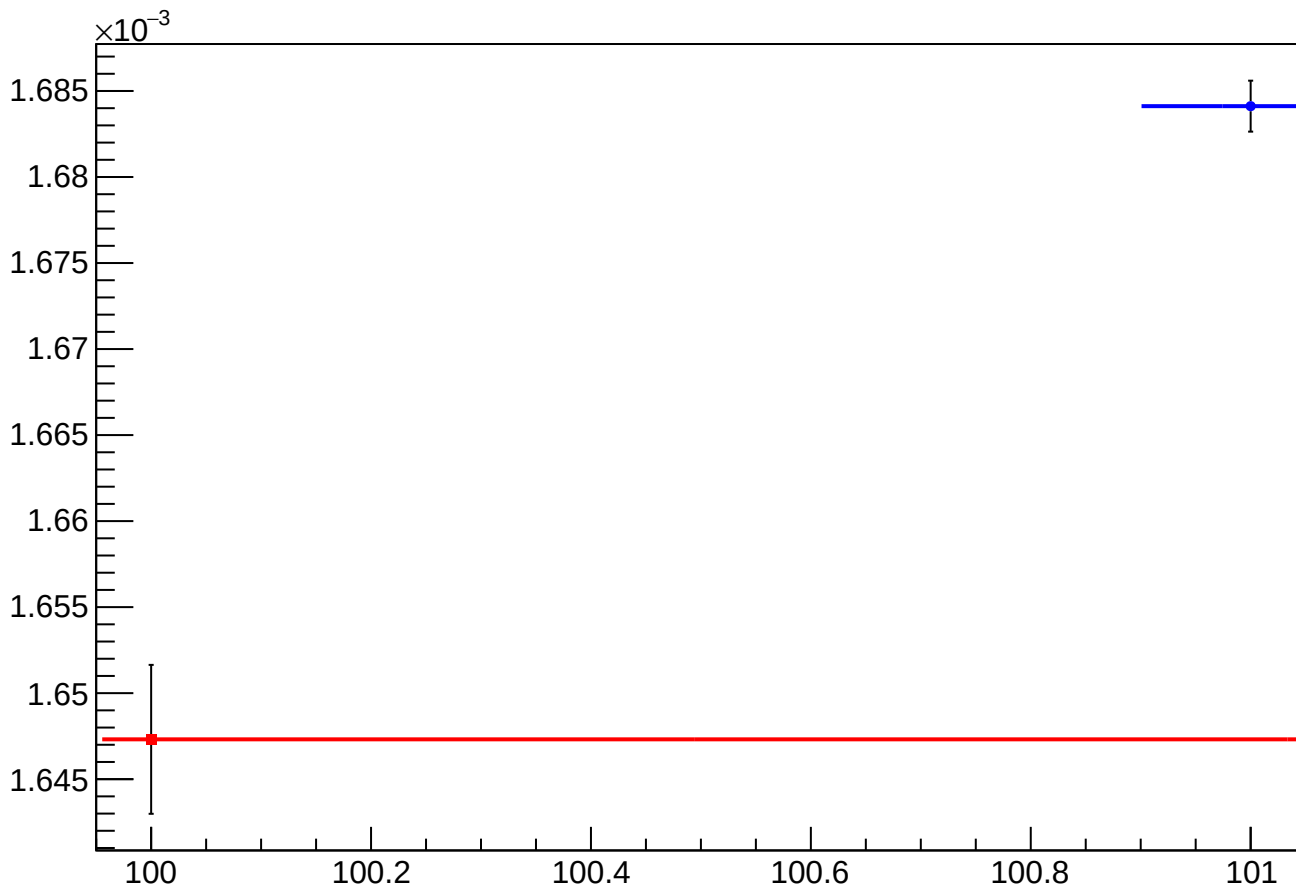
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

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

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_usl\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 64.7/1

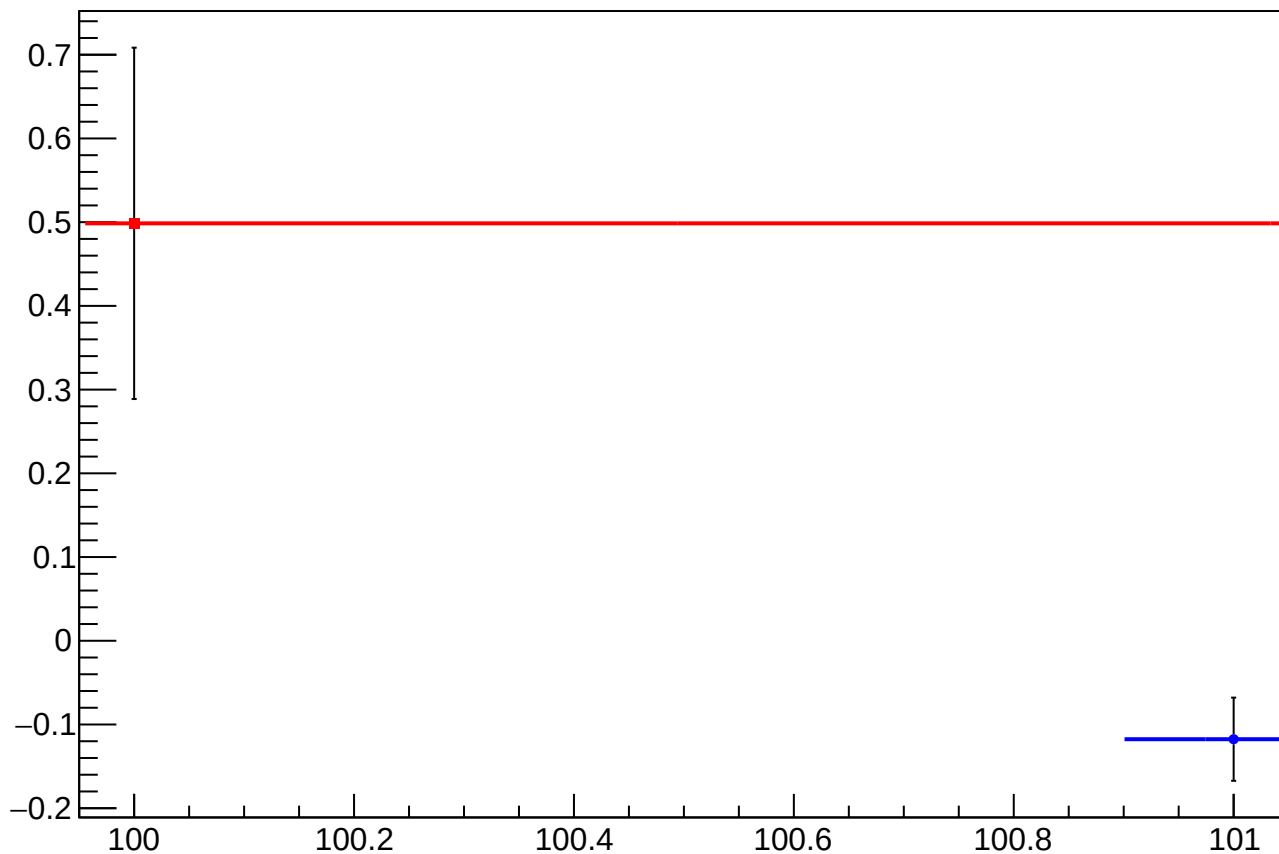
In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 64.7/1



asym\_usl\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.118 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.499 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

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

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

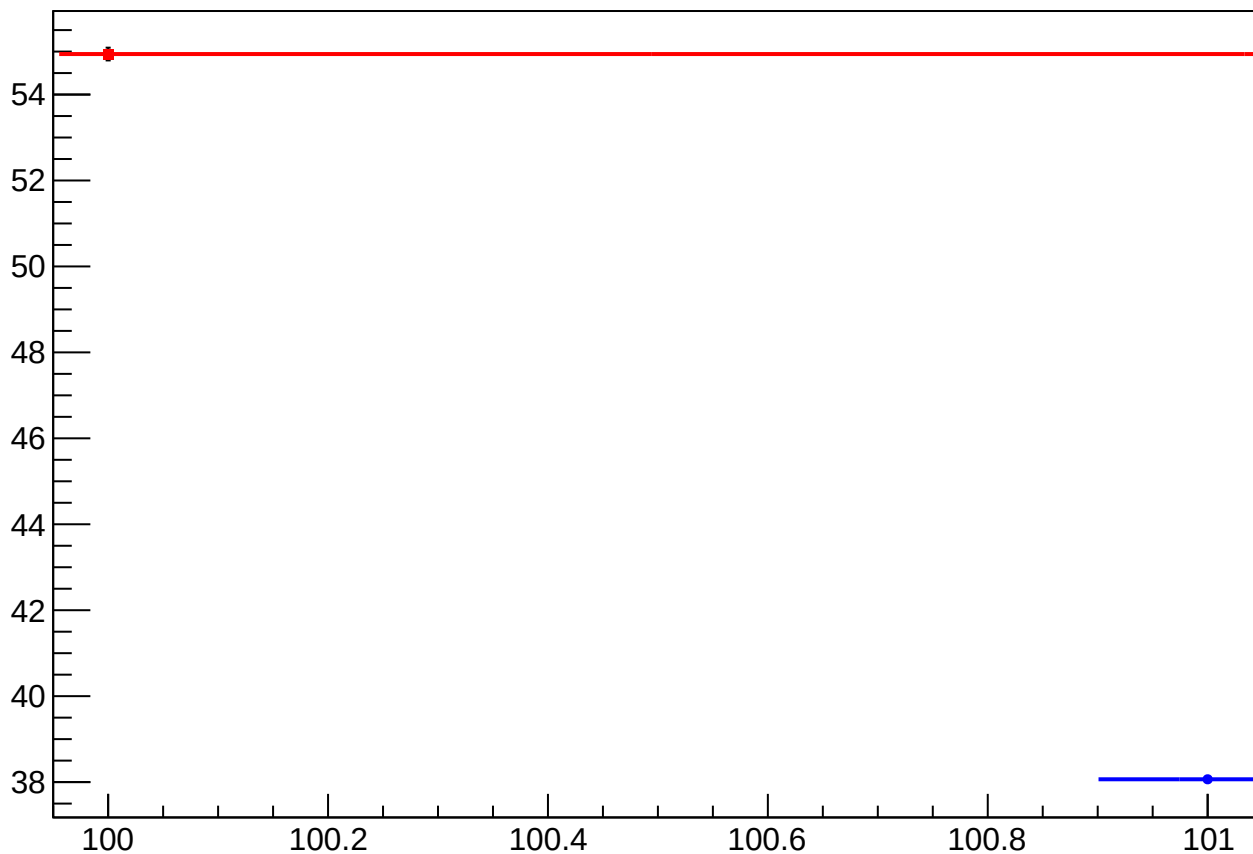
Right: -0.085 $\pm$ 0.048  $\chi^2$ /NDF: 8.2/1

In: -0.118 $\pm$ 0.050  $\chi^2$ /NDF:0.0/0

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

All: -0.085 $\pm$ 0.048  $\chi^2$ /NDF: 8.2/1

asym\_usl\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 38.065+/-0.035  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 54.943+/-0.148  $\chi^2/\text{NDF}$ : 0.0/0

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

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

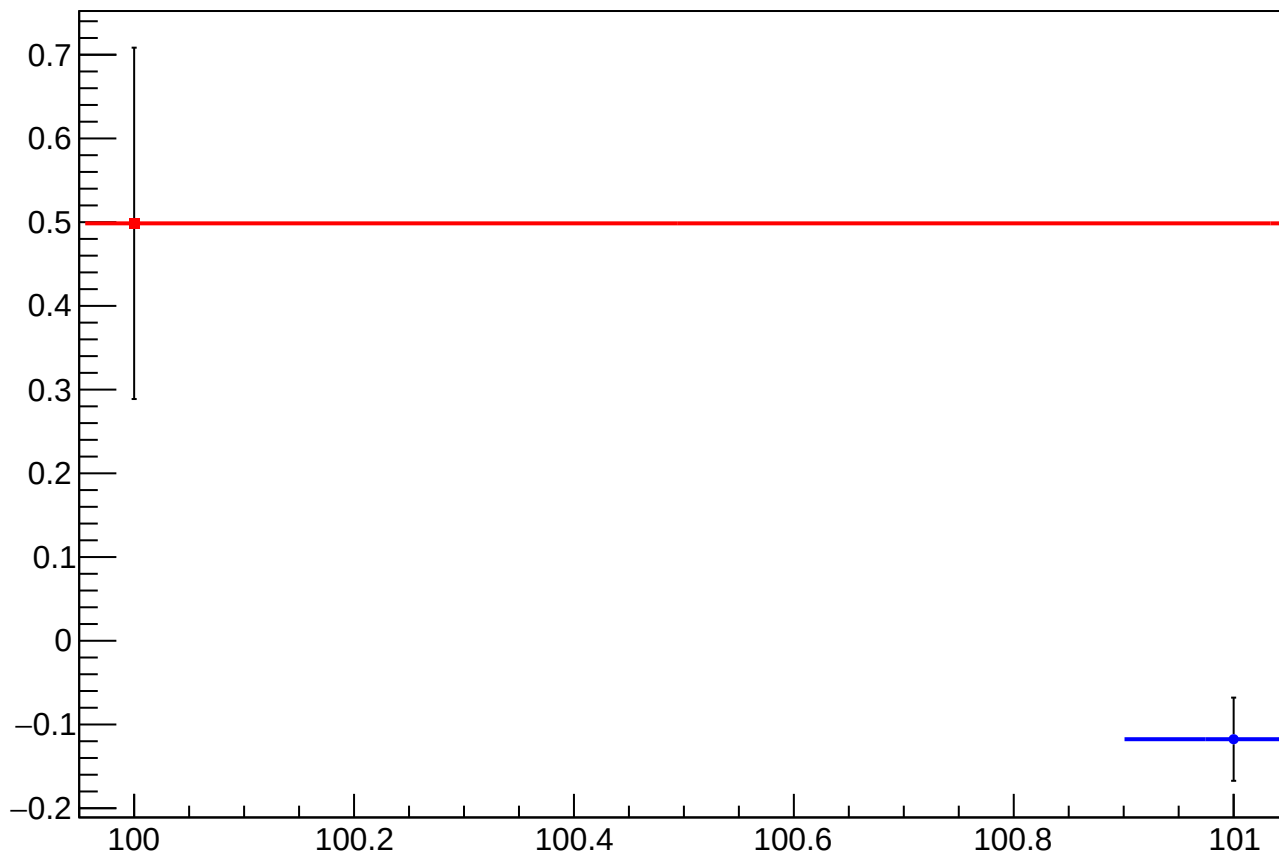
Right: 38.961+/-0.034  $\chi^2/\text{NDF}$ : 12251.4/1

In: 38.065+/-0.035  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 38.961+/-0.034  $\chi^2/\text{NDF}$ : 12251.4/1

asym\_usl\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.118+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.499+/-0.210  $\chi^2/\text{NDF}$ : 0.0/0

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

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

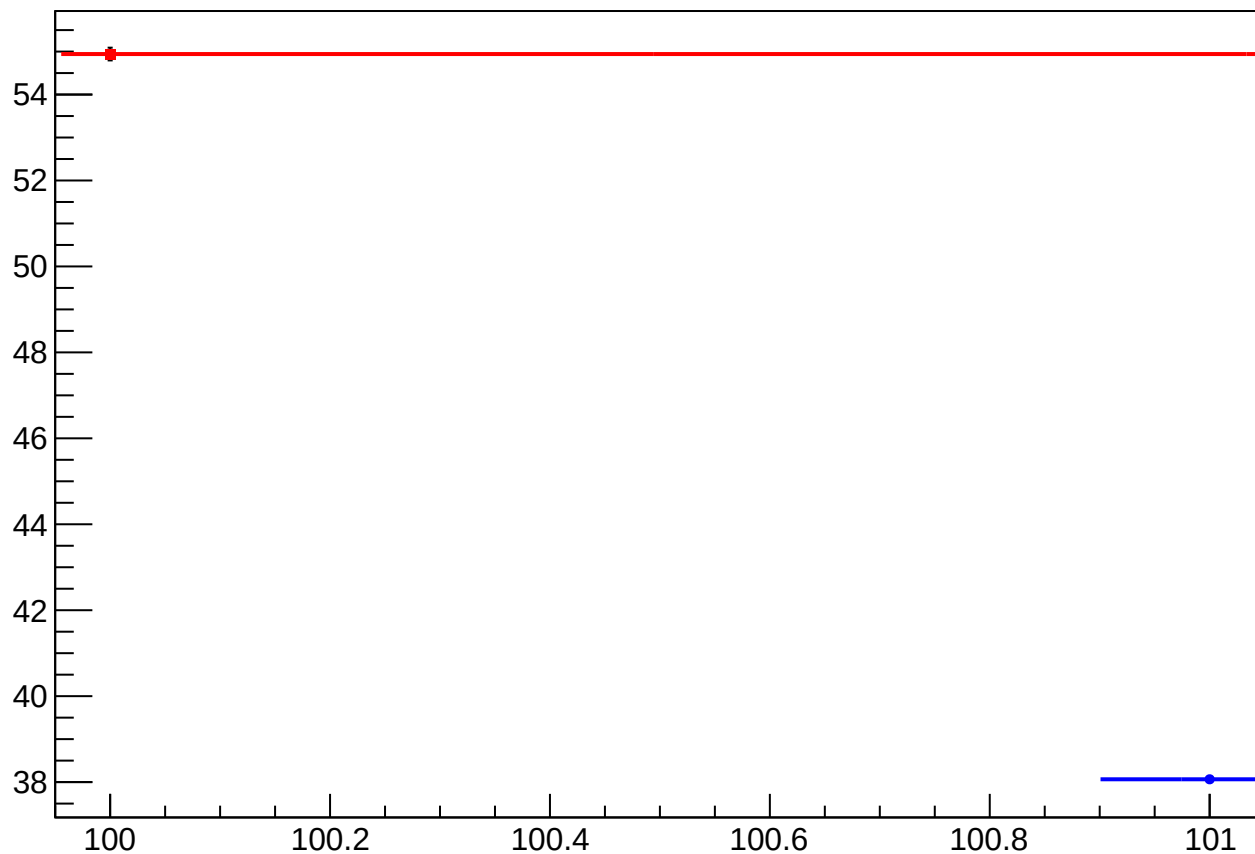
Right: -0.085+/-0.048  $\chi^2/\text{NDF}$ : 8.2/1

In: -0.118+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.085+/-0.048  $\chi^2/\text{NDF}$ : 8.2/1

asym\_usl\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 38.065 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

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

Right Out: 54.943 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/0

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

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

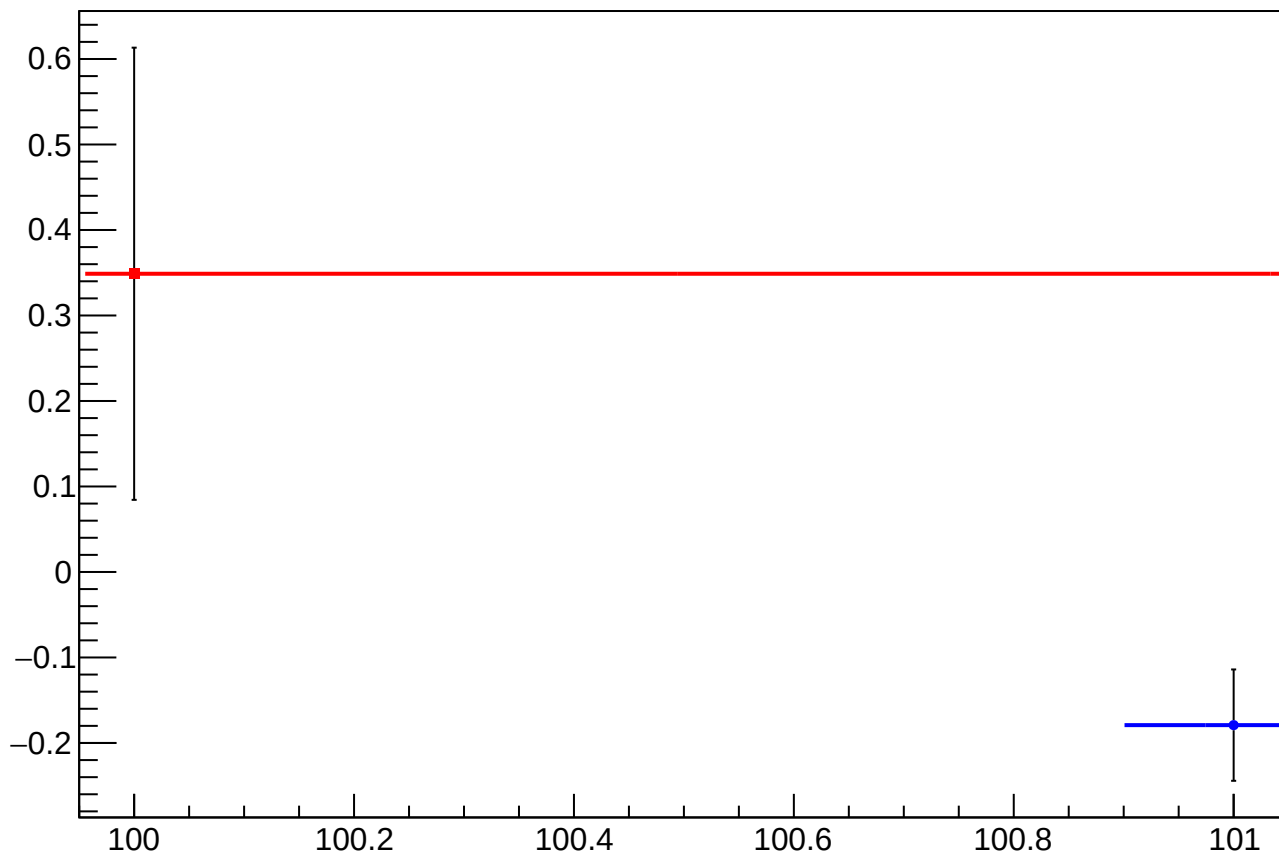
Right: 38.961 $\pm$ 0.034  $\chi^2$ /NDF: 12251.4/1

In: 38.065 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

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

All: 38.961 $\pm$ 0.034  $\chi^2$ /NDF: 12251.4/1

asym\_usl\_eigen\_dit\_vs\_overload\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.179+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.349+/-0.264  $\chi^2/\text{NDF}$ : 0.0/0

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

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

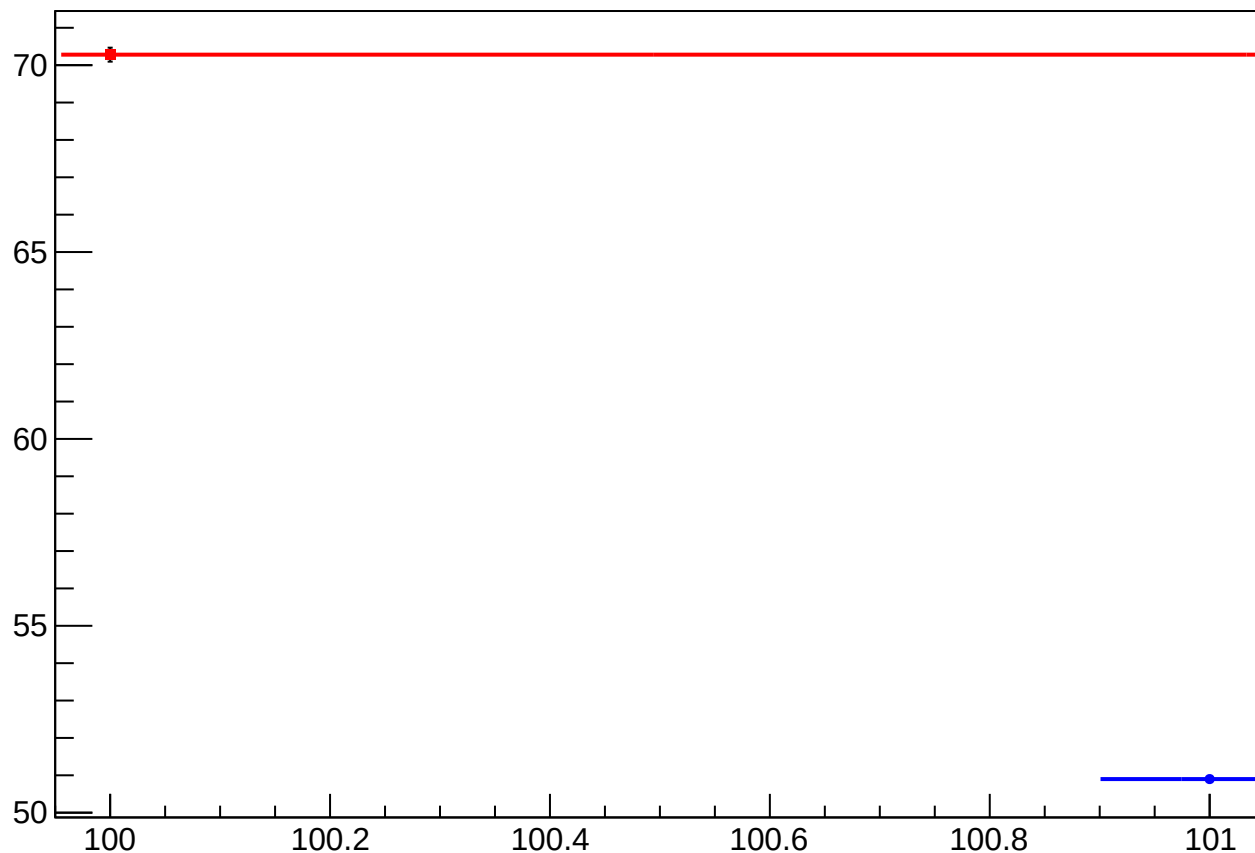
Right: -0.149+/-0.063  $\chi^2/\text{NDF}$ : 3.8/1

In: -0.179+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.149+/-0.063  $\chi^2/\text{NDF}$ : 3.8/1

asym\_usl\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 50.899+/-0.046  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 70.281+/-0.187  $\chi^2/\text{NDF}$ : 0.0/0

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

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

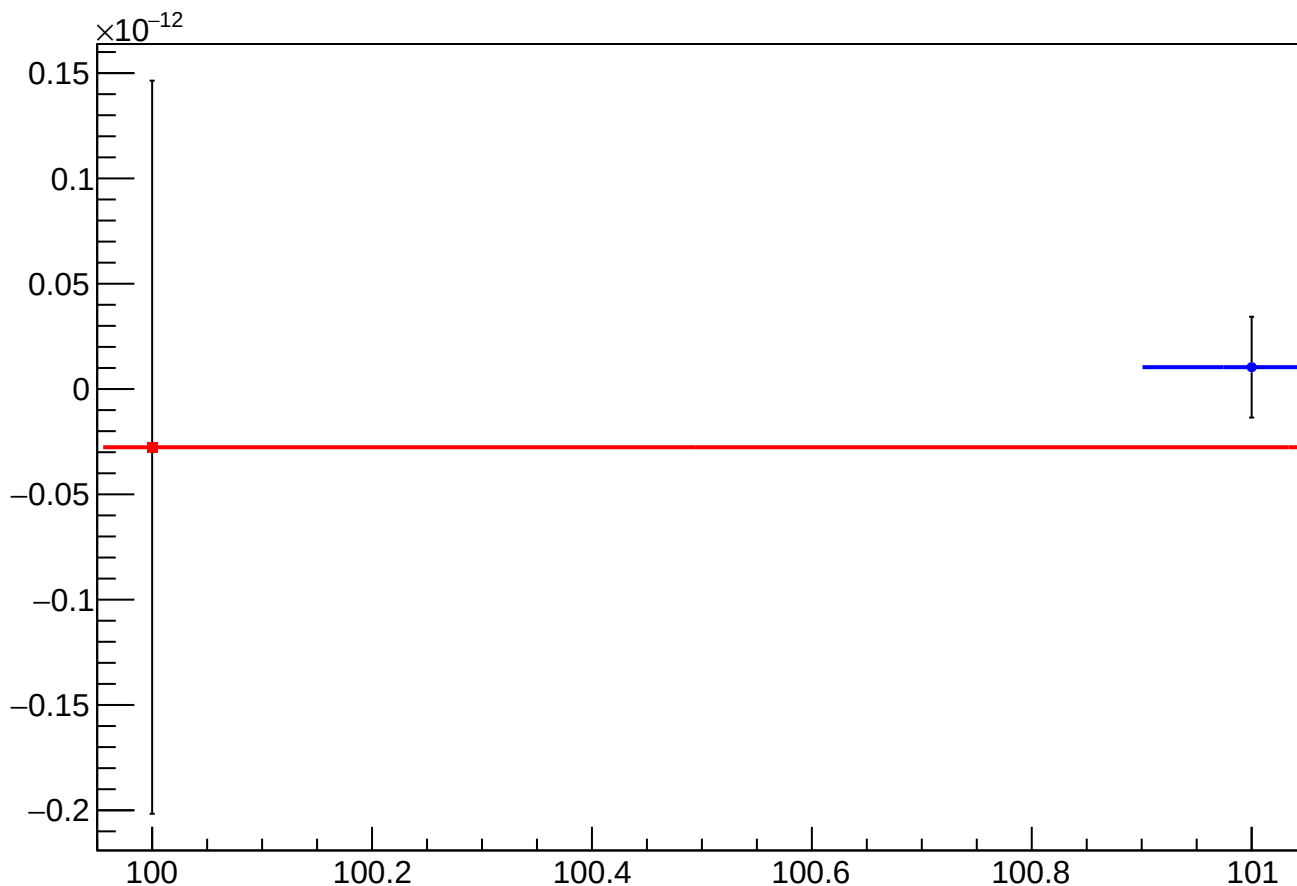
Right: 52.007+/-0.045  $\chi^2/\text{NDF}$ : 10130.0/1

In: 50.899+/-0.046  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 52.007+/-0.045  $\chi^2/\text{NDF}$ : 10130.0/1

asym\_usl\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

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

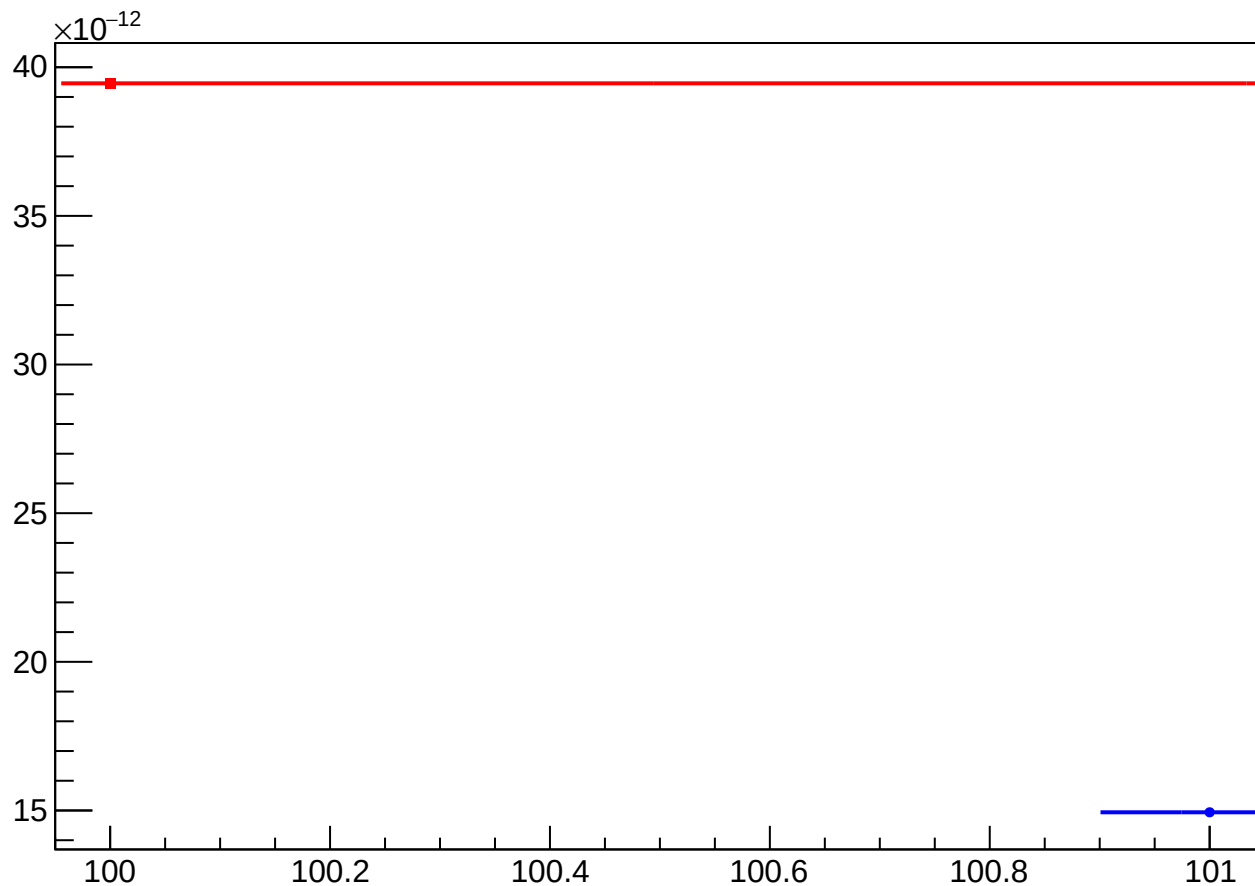
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

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

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usl\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38959.3/1

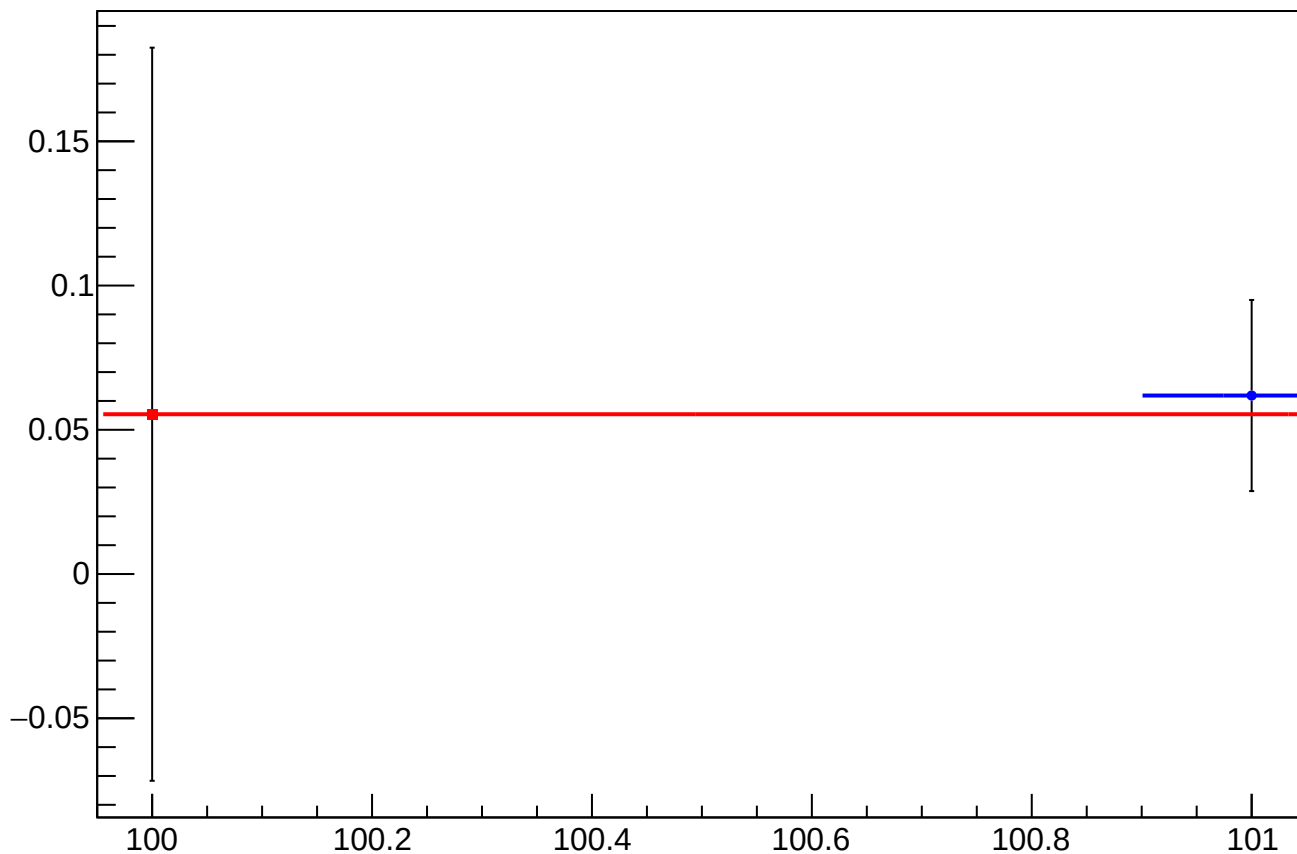
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38959.3/1



asym\_usl\_overload\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.062+/-0.033  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.055+/-0.127  $\chi^2/\text{NDF}$ : 0.0/0

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

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

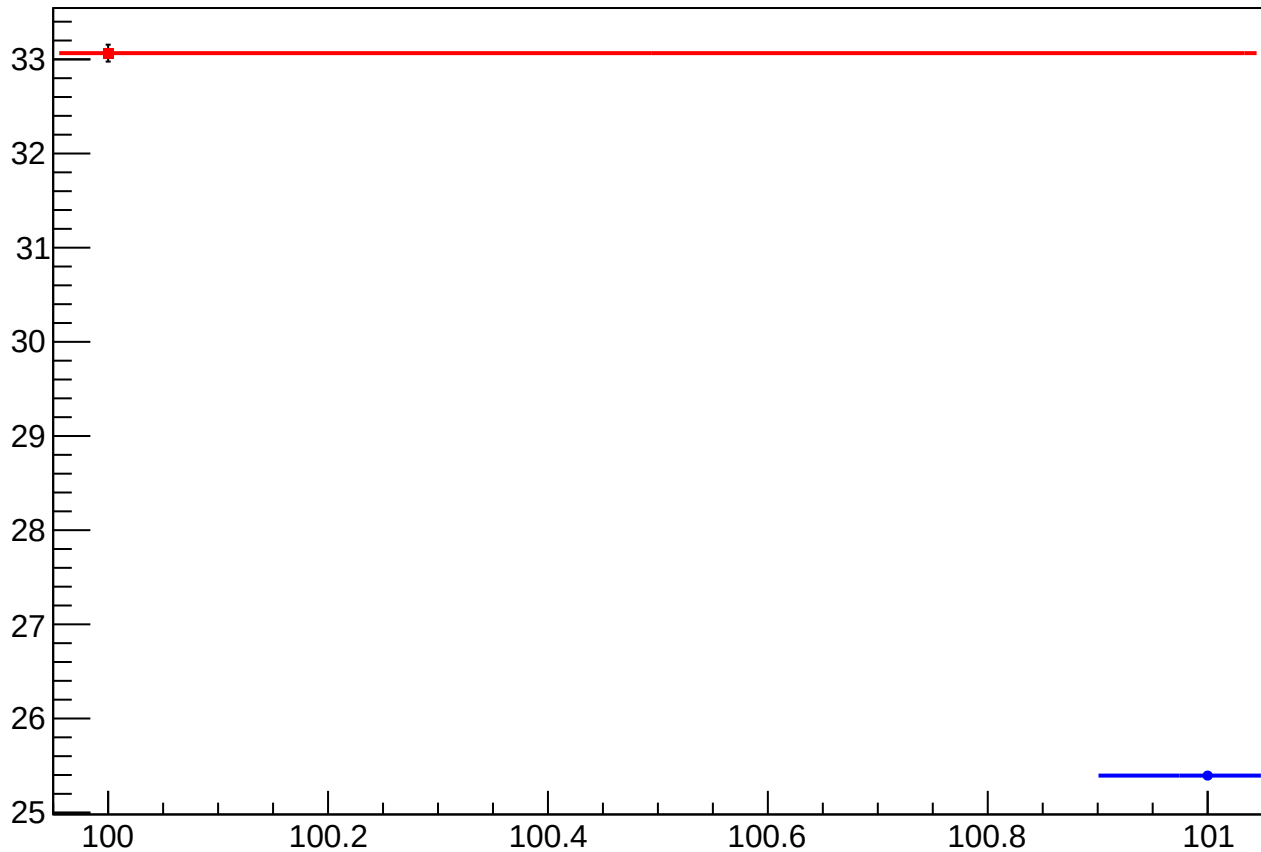
Right: 0.061+/-0.032  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.062+/-0.033  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.061+/-0.032  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usl\_overload\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 25.394 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

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

Right Out: 33.066 $\pm$ 0.090  $\chi^2$ /NDF: 0.0/0

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

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

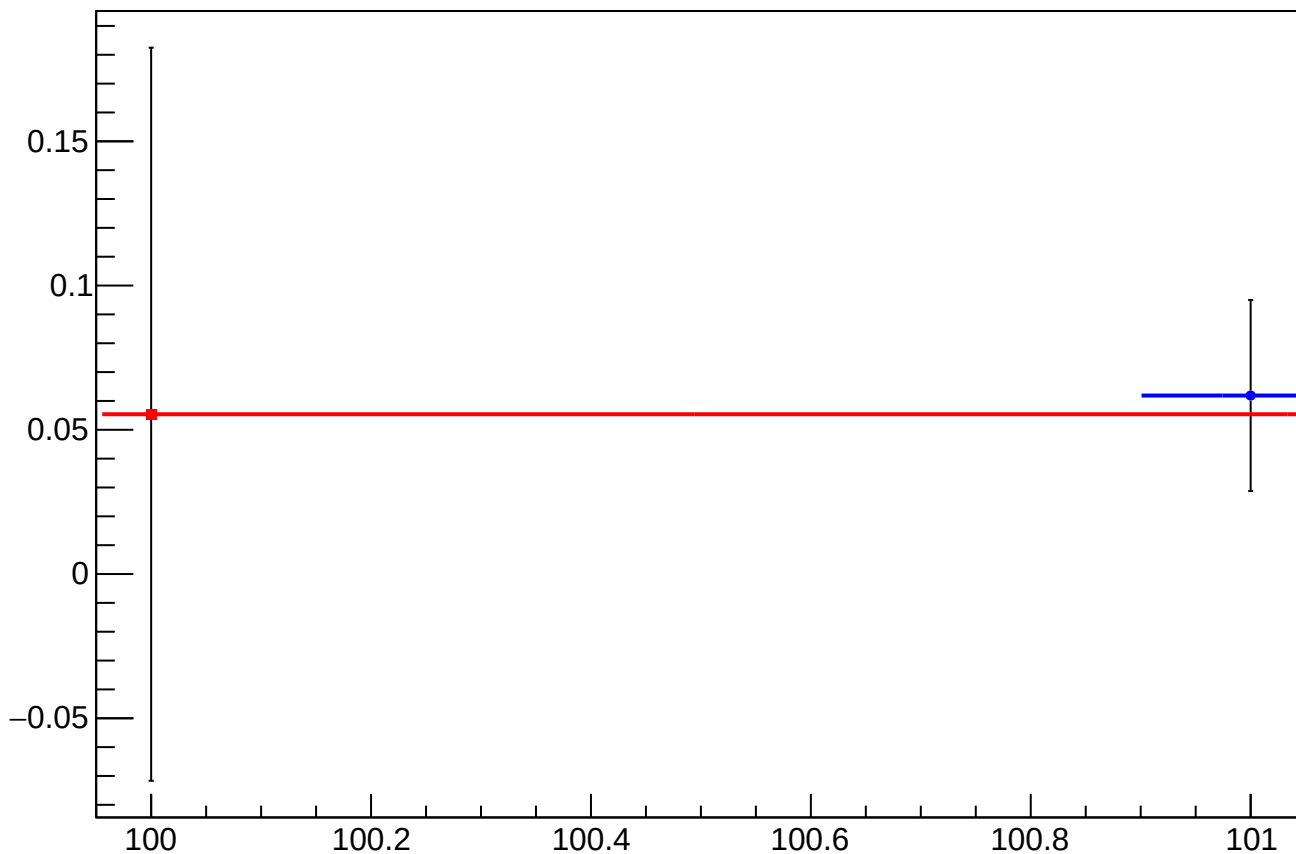
Right: 25.882 $\pm$ 0.023  $\chi^2$ /NDF: 6827.3/1

In: 25.394 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

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

All: 25.882 $\pm$ 0.023  $\chi^2$ /NDF: 6827.3/1

asym\_usl\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.062 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.055 $\pm$ 0.127  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.061 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.062 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.061 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usl\_overload\_cor\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 25.394 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

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

Right Out: 33.066 $\pm$ 0.090  $\chi^2$ /NDF: 0.0/0

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

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

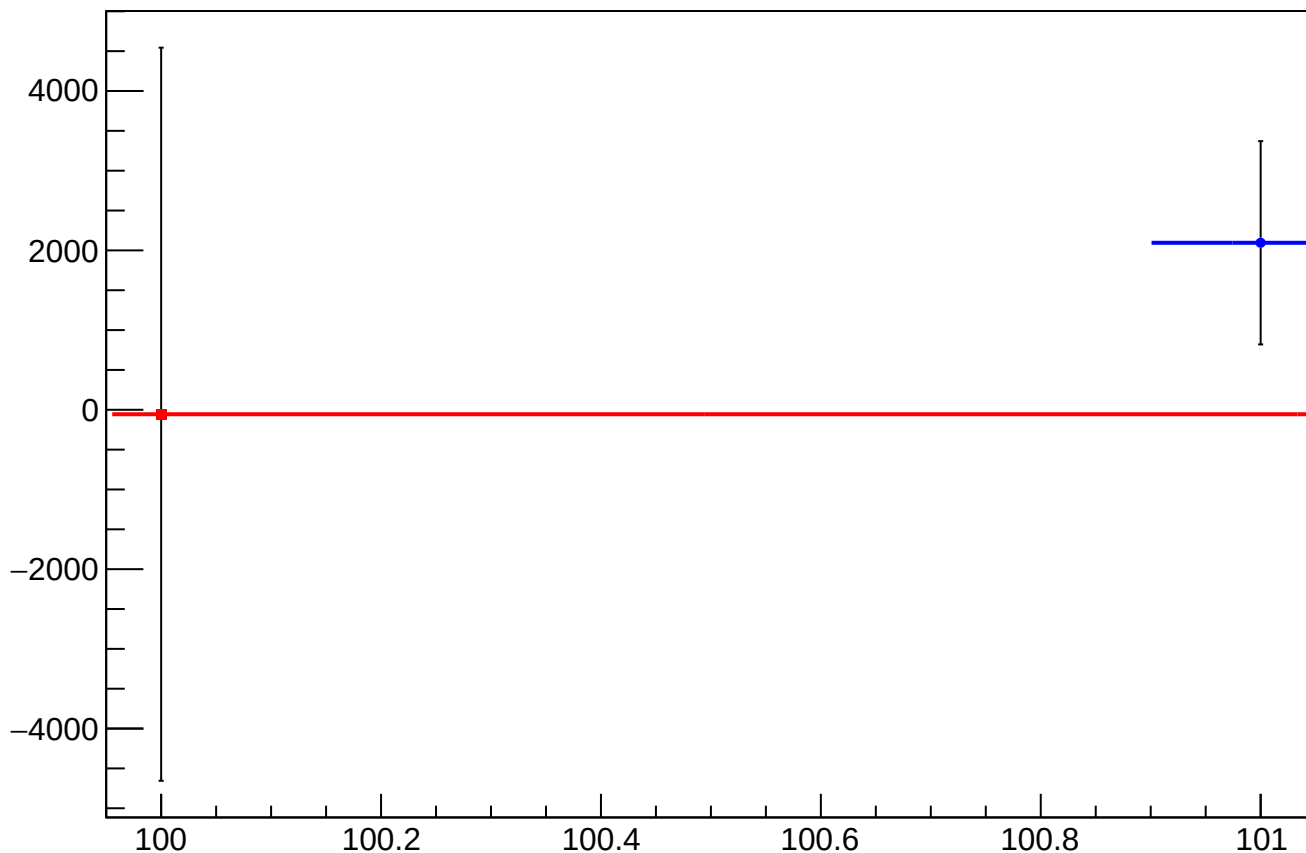
Right: 25.882 $\pm$ 0.023  $\chi^2$ /NDF: 6827.3/1

In: 25.394 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

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

All: 25.882 $\pm$ 0.023  $\chi^2$ /NDF: 6827.3/1

# reg\_asym\_usr\_mean vs Slug, Sign Corrected



Right In: 2095.377+/-1275.559  $\chi^2$ /NDF: 0.0/0

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

Right Out: -55.905+/-4599.522  $\chi^2$ /NDF: 0.0/0

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

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

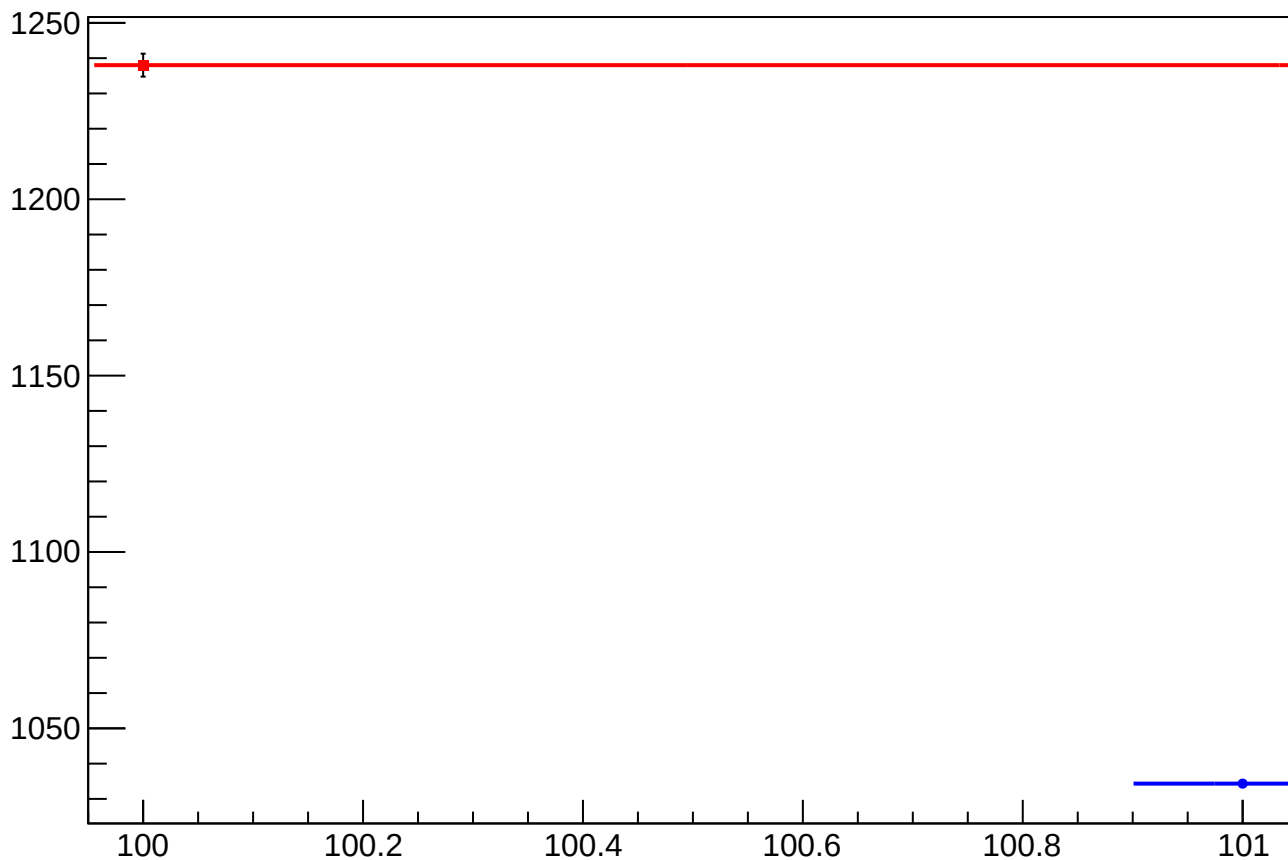
Right: 1941.741+/-1229.168  $\chi^2$ /NDF: 0.2/1

In: 2095.377+/-1275.559  $\chi^2$ /NDF:0.0/0

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

All: 1941.741+/-1229.168  $\chi^2$ /NDF: 0.2/1

# reg\_asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1034.332 $\pm$ 0.902  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1238.024 $\pm$ 3.252  $\chi^2$ /NDF: 0.0/0

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

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

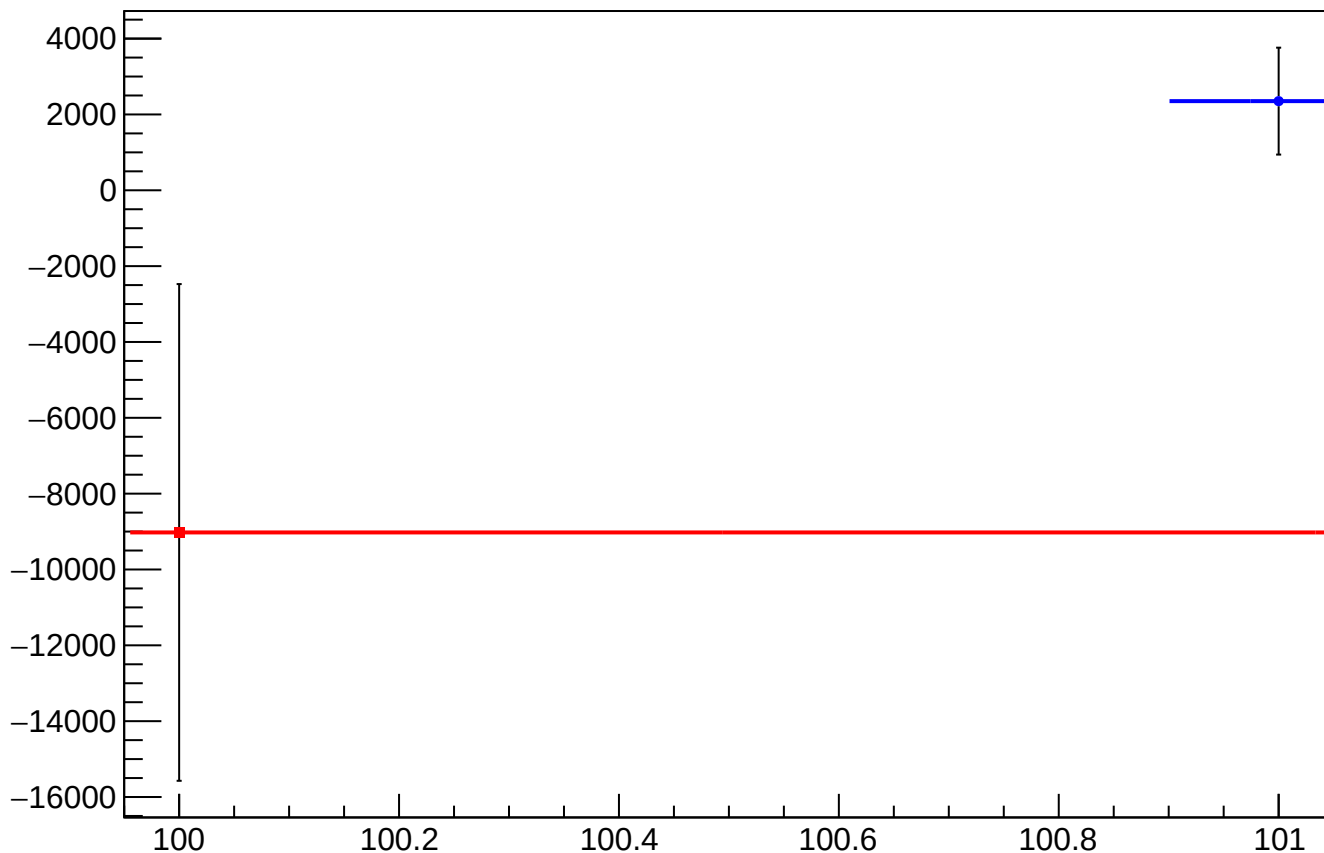
Right: 1048.879 $\pm$ 0.869  $\chi^2$ /NDF: 3642.3/1

In: 1034.332 $\pm$ 0.902  $\chi^2$ /NDF: 0.0/0

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

All: 1048.879 $\pm$ 0.869  $\chi^2$ /NDF: 3642.3/1

asym\_usr\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 2351.390+/-1409.640  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -9022.926+/-6549.661  $\chi^2/\text{NDF}$ : 0.0/0

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

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

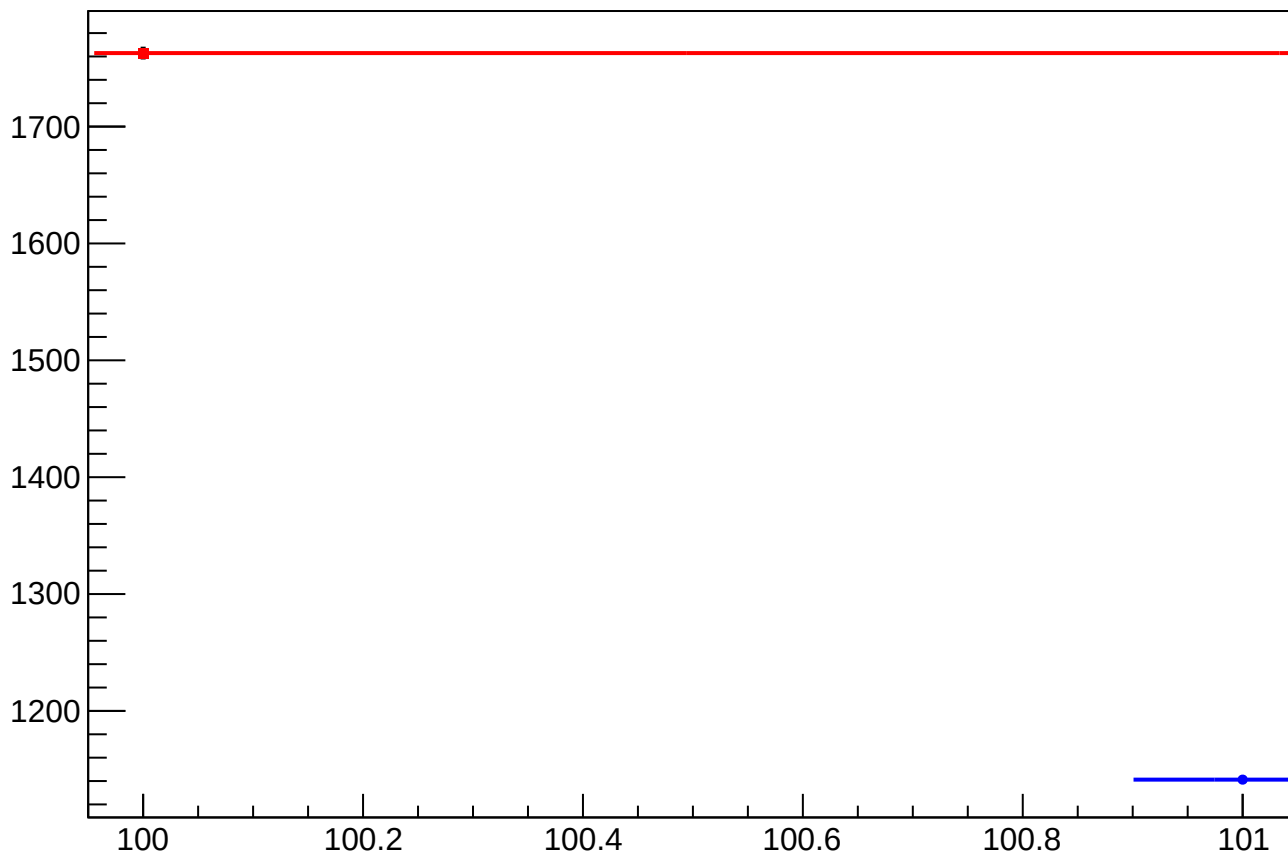
Right: 1847.845+/-1378.084  $\chi^2/\text{NDF}$ : 2.9/1

In: 2351.390+/-1409.640  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1847.845+/-1378.084  $\chi^2/\text{NDF}$ : 2.9/1

asym\_usr\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1141.208 $\pm$ 0.997  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1762.891 $\pm$ 4.631  $\chi^2$ /NDF: 0.0/0

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

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

Right: 1168.730 $\pm$ 0.974  $\chi^2$ /NDF: 17221.2/1

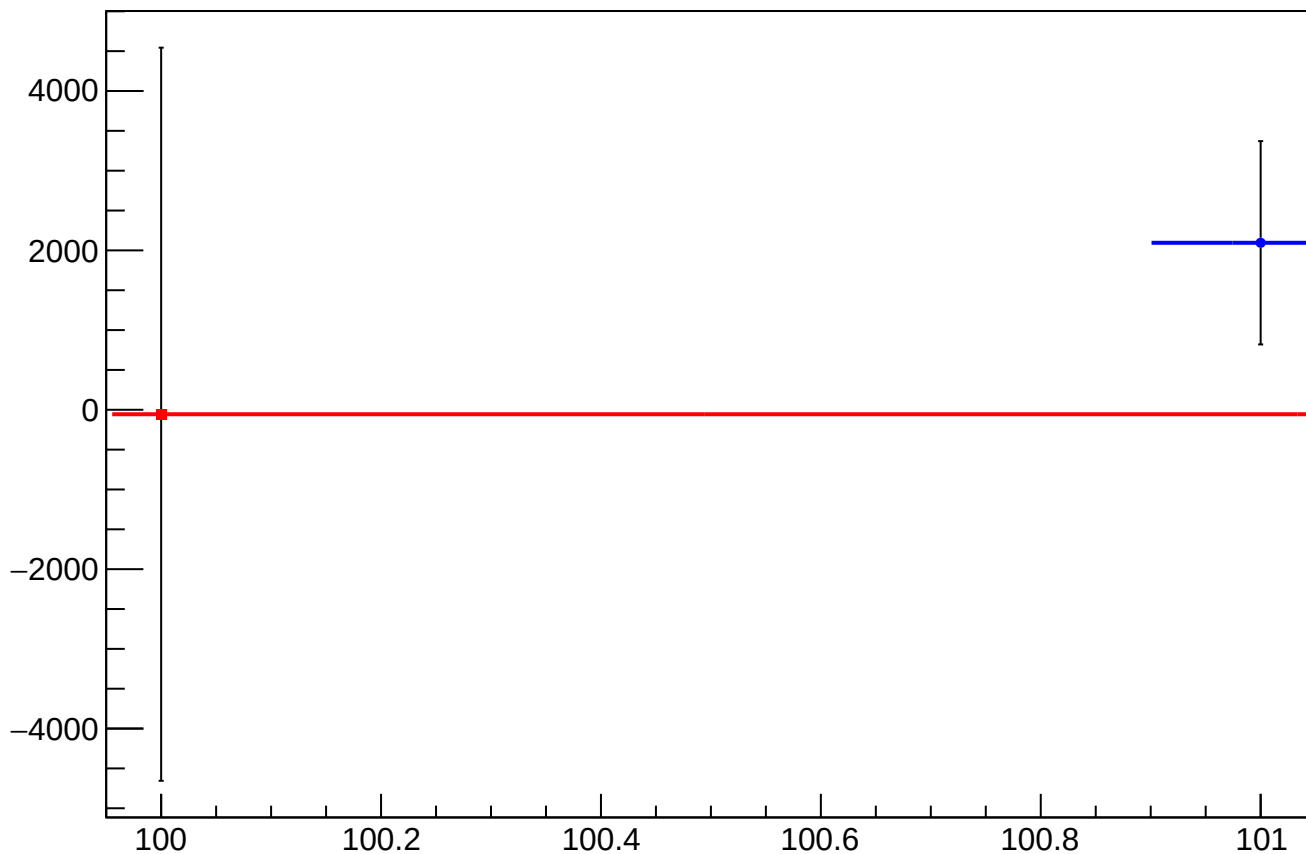
In: 1141.208 $\pm$ 0.997  $\chi^2$ /NDF: 0.0/0

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

All: 1168.730 $\pm$ 0.974  $\chi^2$ /NDF: 17221.2/1



# cor\_asym\_usr\_mean vs Slug, Sign Corrected



Right In: 2095.377+/-1275.559  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -55.905+/-4599.522  $\chi^2/\text{NDF}$ : 0.0/0

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

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

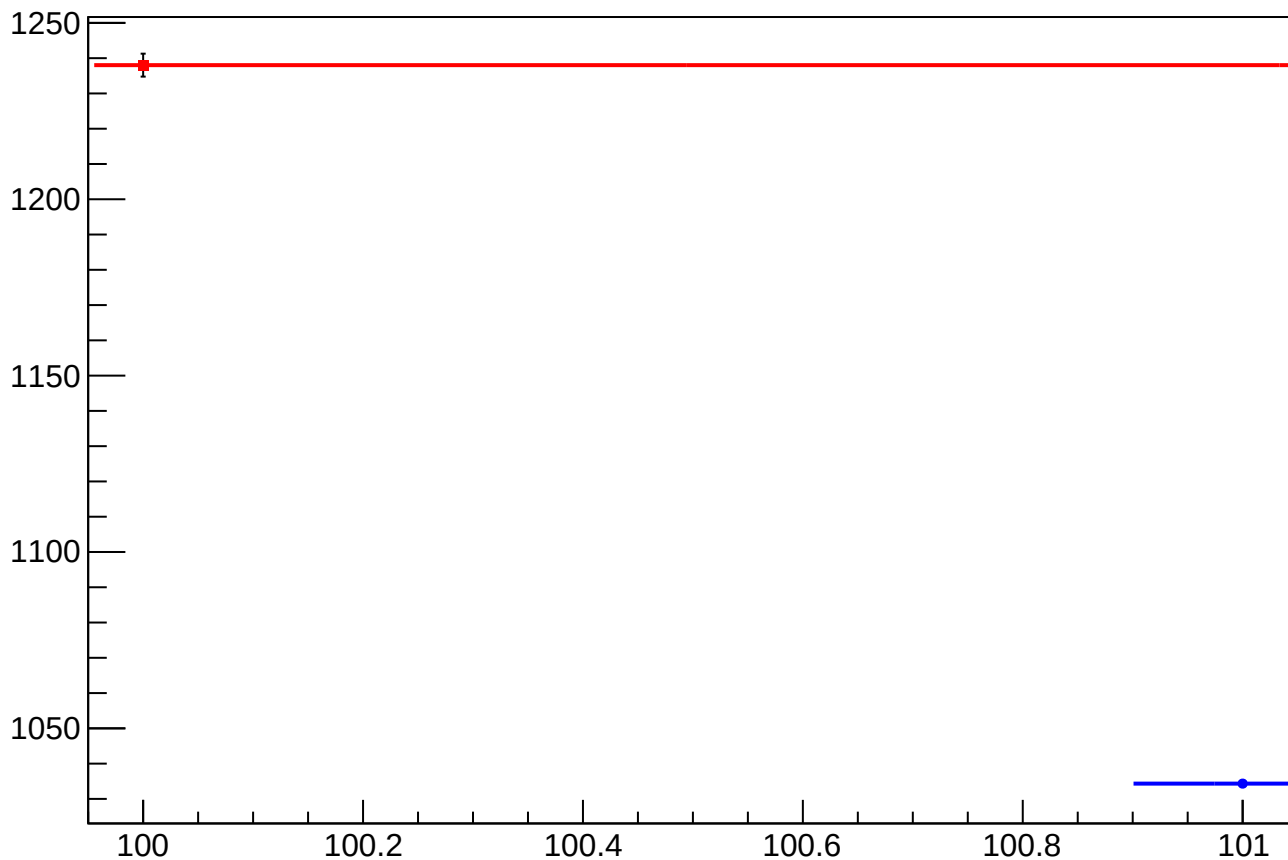
Right: 1941.741+/-1229.168  $\chi^2/\text{NDF}$ : 0.2/1

In: 2095.377+/-1275.559  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1941.741+/-1229.168  $\chi^2/\text{NDF}$ : 0.2/1

# cor\_asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1034.332 $\pm$ 0.902  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1238.024 $\pm$ 3.252  $\chi^2$ /NDF: 0.0/0

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

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

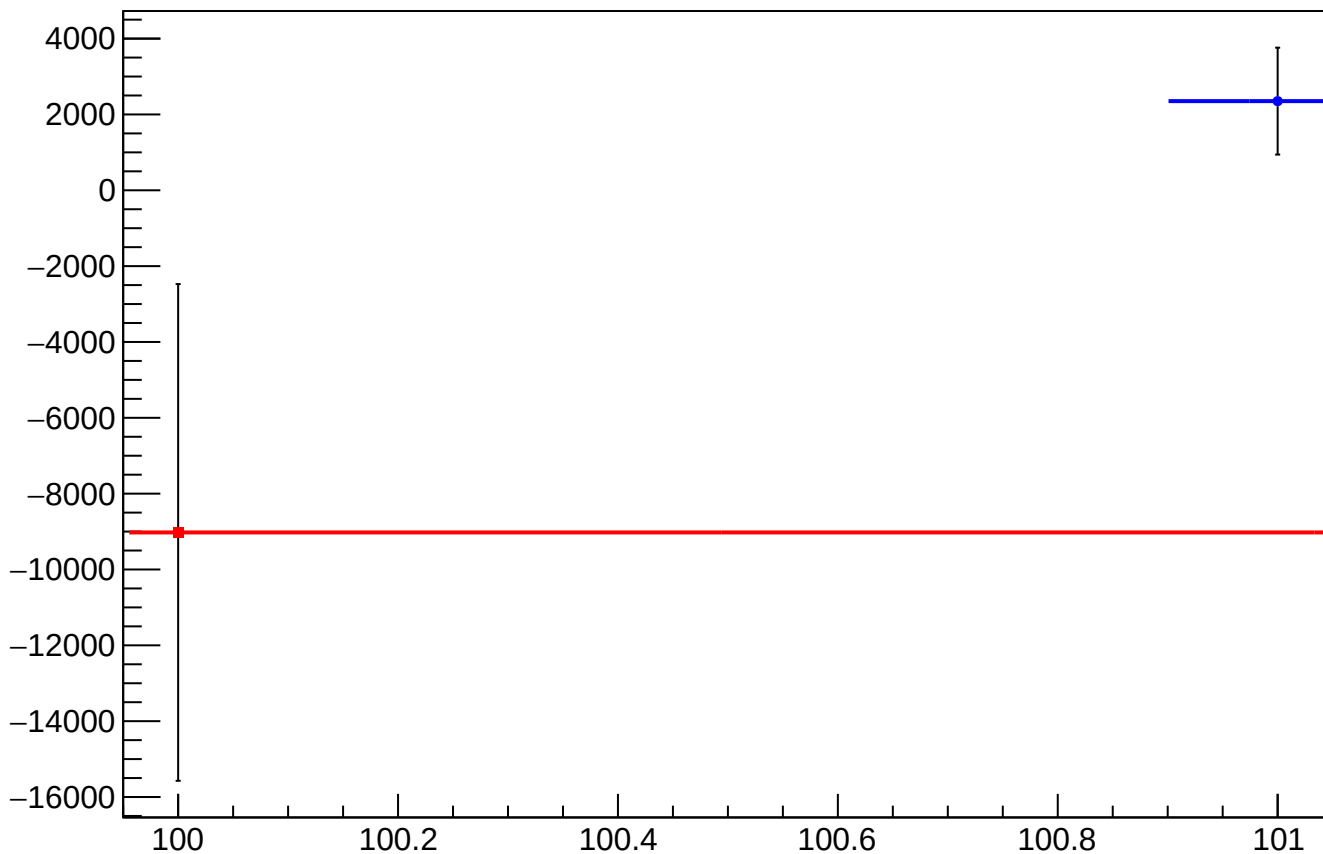
Right: 1048.879 $\pm$ 0.869  $\chi^2$ /NDF: 3642.3/1

In: 1034.332 $\pm$ 0.902  $\chi^2$ /NDF: 0.0/0

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

All: 1048.879 $\pm$ 0.869  $\chi^2$ /NDF: 3642.3/1

asym\_usr\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2351.390 $\pm$ 1409.640  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -9022.926 $\pm$ 6549.661  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

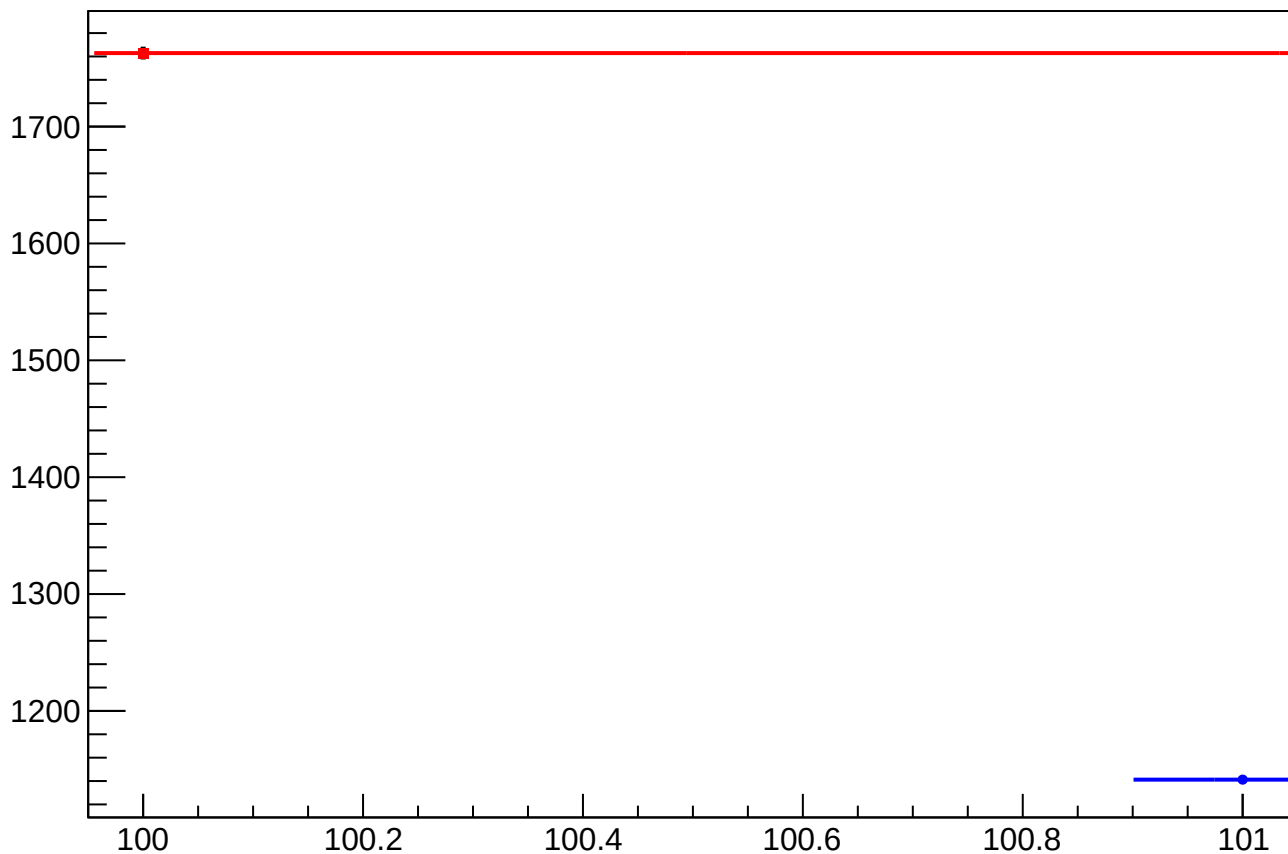
Right: 1847.845 $\pm$ 1378.084  $\chi^2/\text{NDF}$ : 2.9/1

In: 2351.390 $\pm$ 1409.640  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1847.845 $\pm$ 1378.084  $\chi^2/\text{NDF}$ : 2.9/1

asym\_usr\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1141.208 $\pm$ 0.997  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1762.891 $\pm$ 4.631  $\chi^2$ /NDF: 0.0/0

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

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

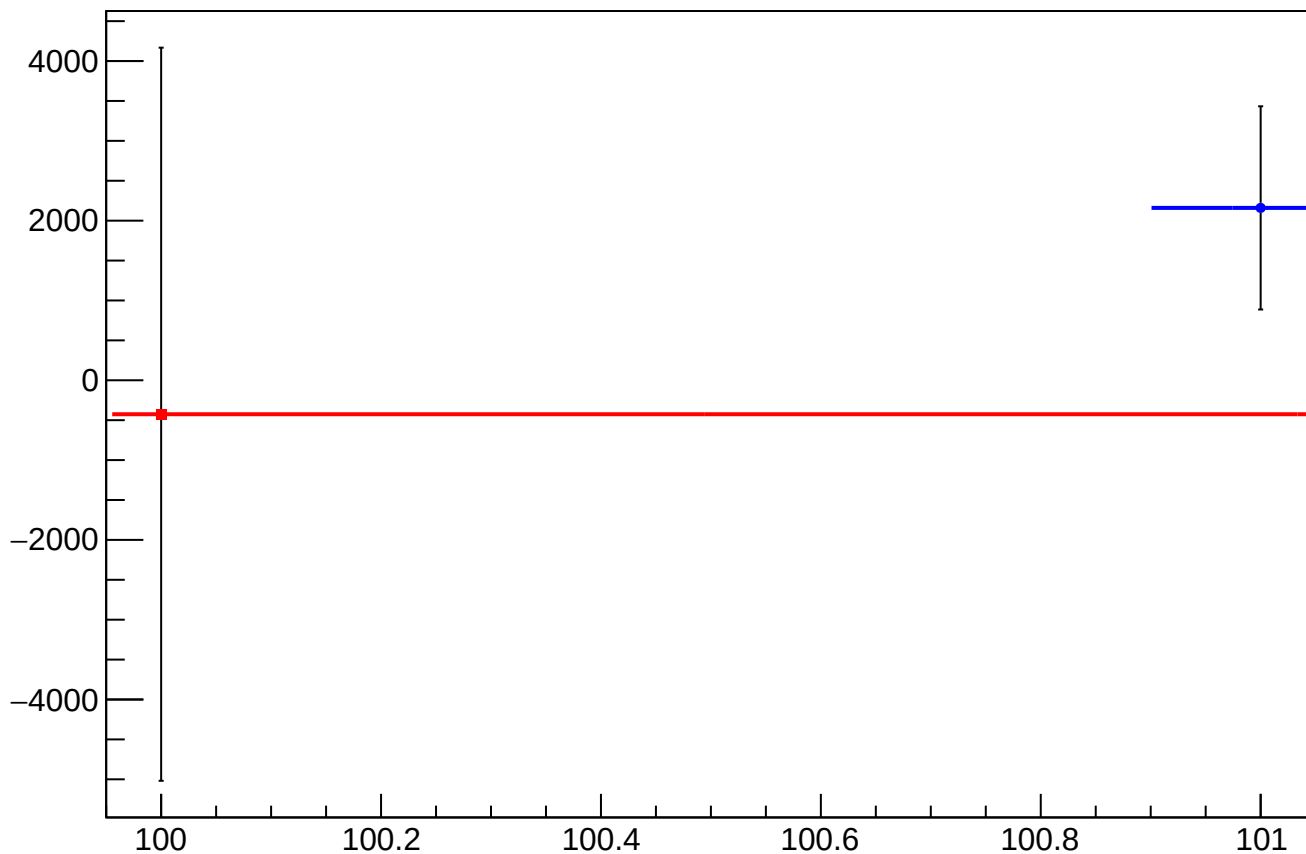
Right: 1168.730 $\pm$ 0.974  $\chi^2$ /NDF: 17221.2/1

In: 1141.208 $\pm$ 0.997  $\chi^2$ /NDF: 0.0/0

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

All: 1168.730 $\pm$ 0.974  $\chi^2$ /NDF: 17221.2/1

overload\_cor\_asym\_usr\_mean vs Slug, Sign Corrected



Right In: 2159.976+/-1273.018  $\chi^2$ /NDF: 0.0/0

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

Right Out: -425.521+/-4593.156  $\chi^2$ /NDF: 0.0/0

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

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

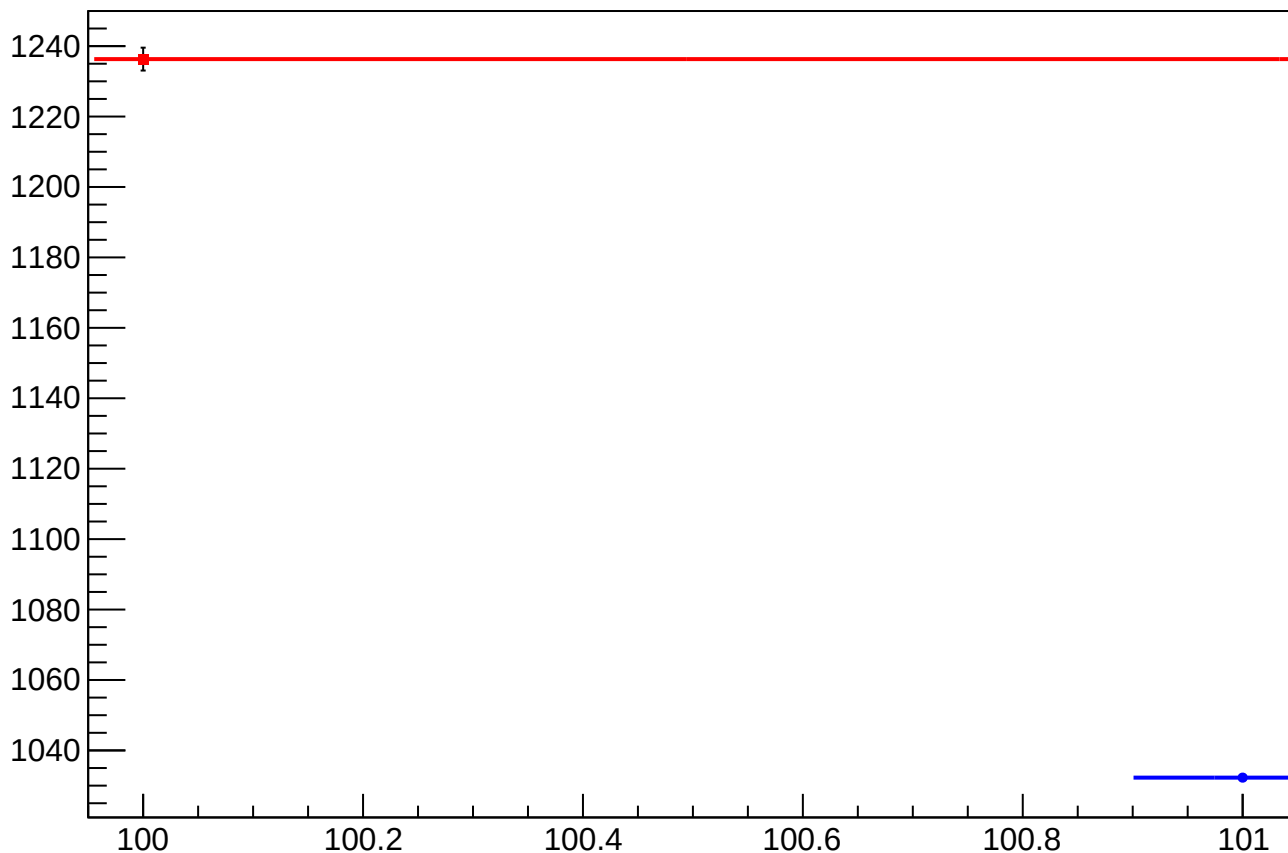
Right: 1975.538+/-1226.772  $\chi^2$ /NDF: 0.3/1

In: 2159.976+/-1273.018  $\chi^2$ /NDF:0.0/0

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

All: 1975.538+/-1226.772  $\chi^2$ /NDF: 0.3/1

# overload\_cor\_asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1032.273+/-0.900  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1236.311+/-3.248  $\chi^2/\text{NDF}$ : 0.0/0

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

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

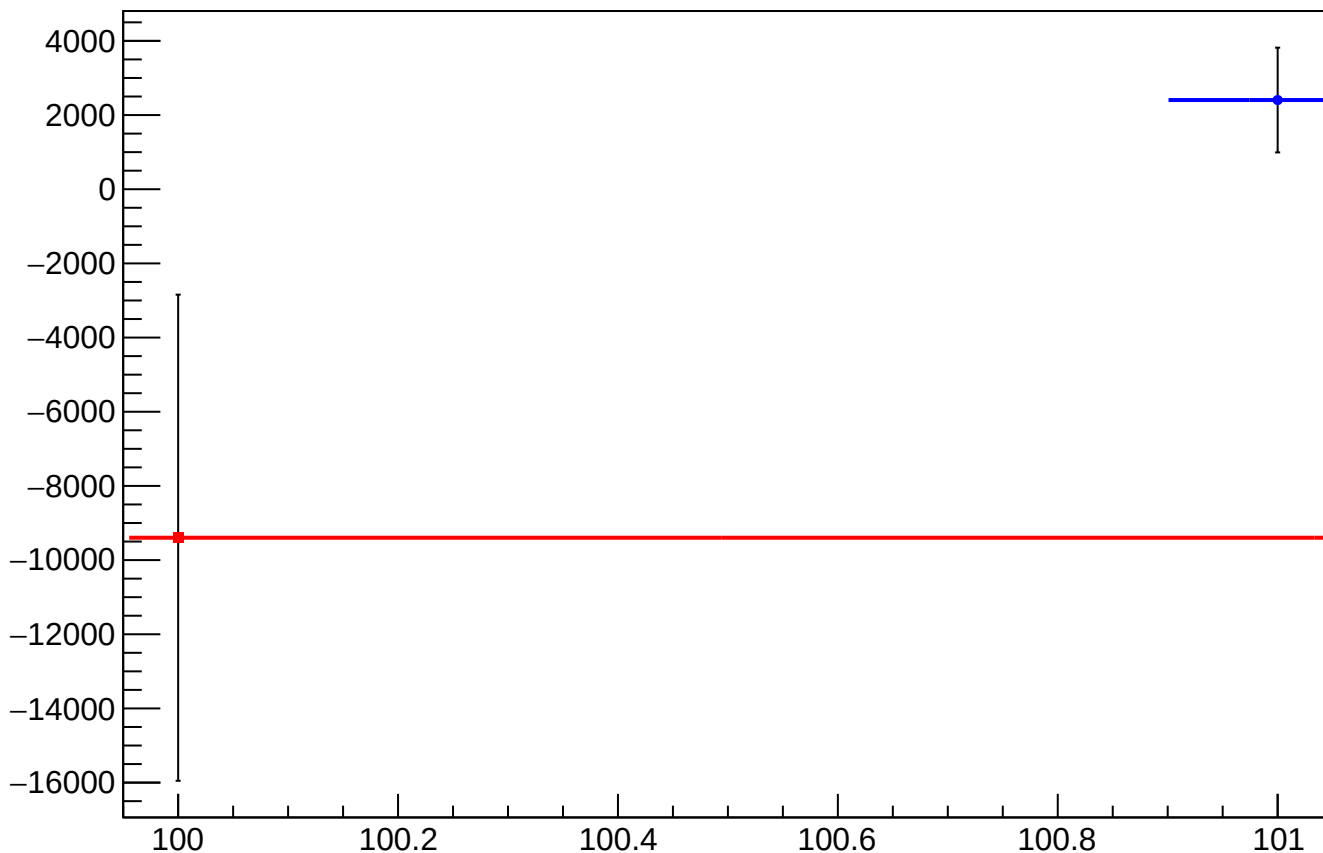
Right: 1046.828+/-0.867  $\chi^2/\text{NDF}$ : 3665.1/1

In: 1032.273+/-0.900  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1046.828+/-0.867  $\chi^2/\text{NDF}$ : 3665.1/1

asym\_usr\_overload\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2404.981+/-1411.976  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -9396.957+/-6554.165  $\chi^2/\text{NDF}$ : 0.0/0

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

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

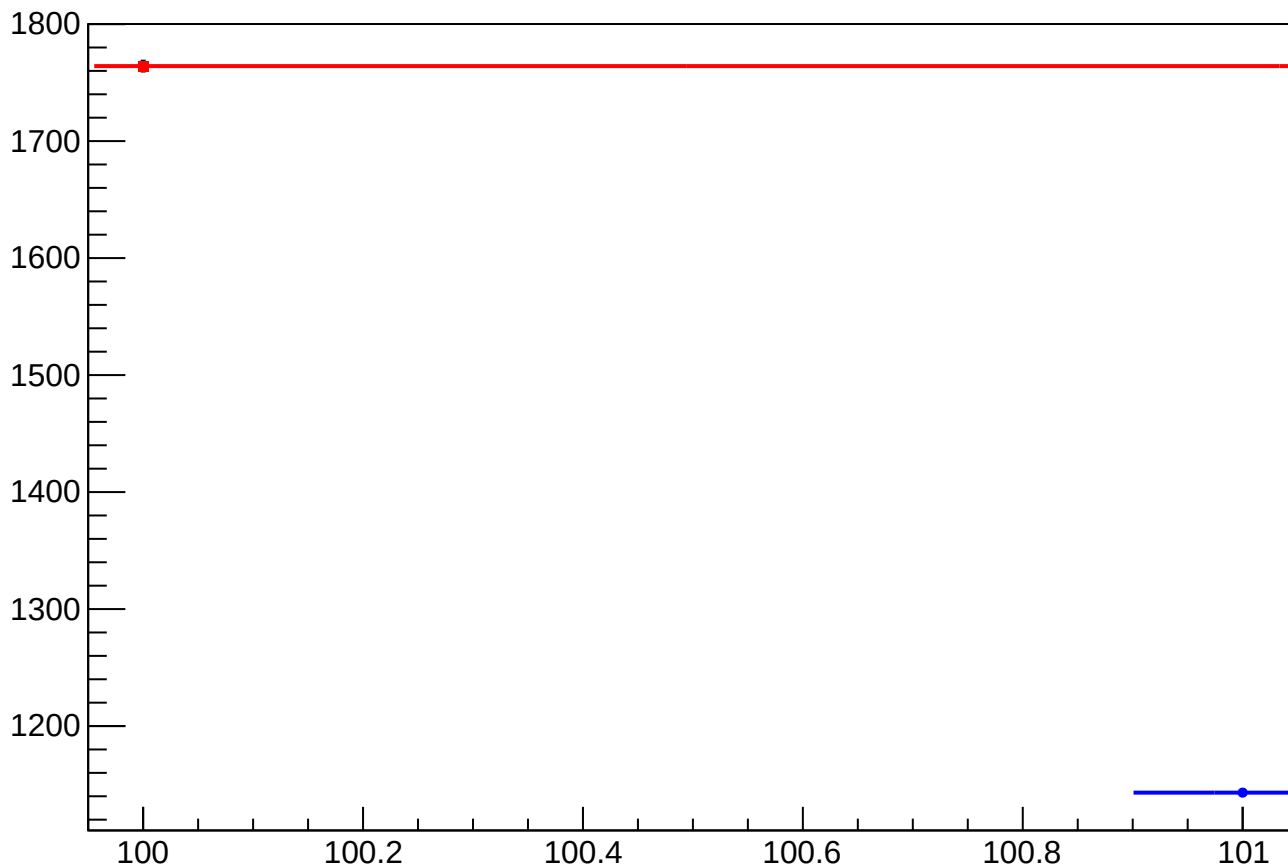
Right: 1881.536+/-1380.309  $\chi^2/\text{NDF}$ : 3.1/1

In: 2404.981+/-1411.976  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1881.536+/-1380.309  $\chi^2/\text{NDF}$ : 3.1/1

asym\_usr\_overload\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1143.111+/-0.998  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1764.103+/-4.634  $\chi^2/\text{NDF}$ : 0.0/0

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

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

Right: 1170.653+/-0.976  $\chi^2/\text{NDF}$ : 17158.0/1

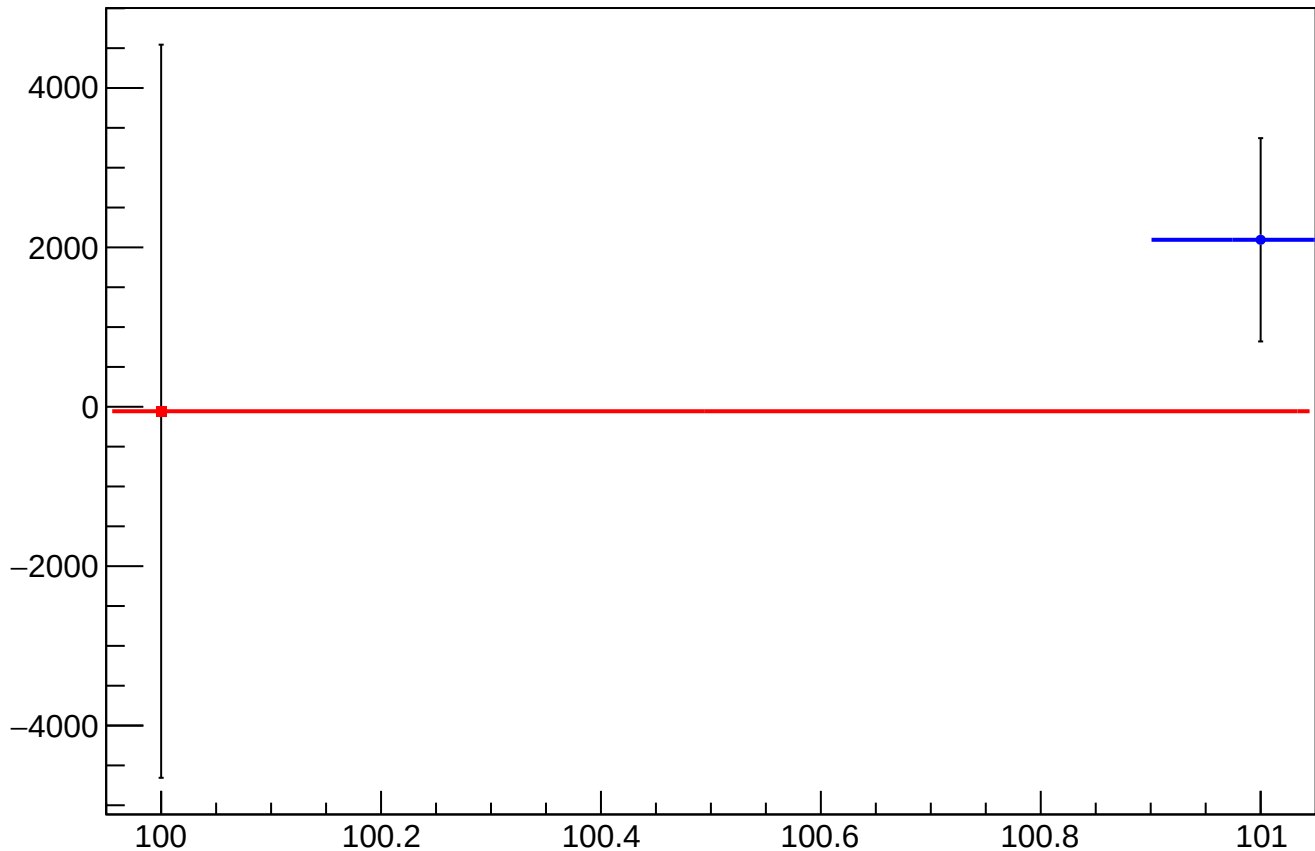
In: 1143.111+/-0.998  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1170.653+/-0.976  $\chi^2/\text{NDF}$ : 17158.0/1



eigen\_cor\_asym\_usr\_mean vs Slug, Sign Corrected



Right In: 2095.377+/-1275.559  $\chi^2$ /NDF: 0.0/0

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

Right Out: -55.905+/-4599.522  $\chi^2$ /NDF: 0.0/0

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

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

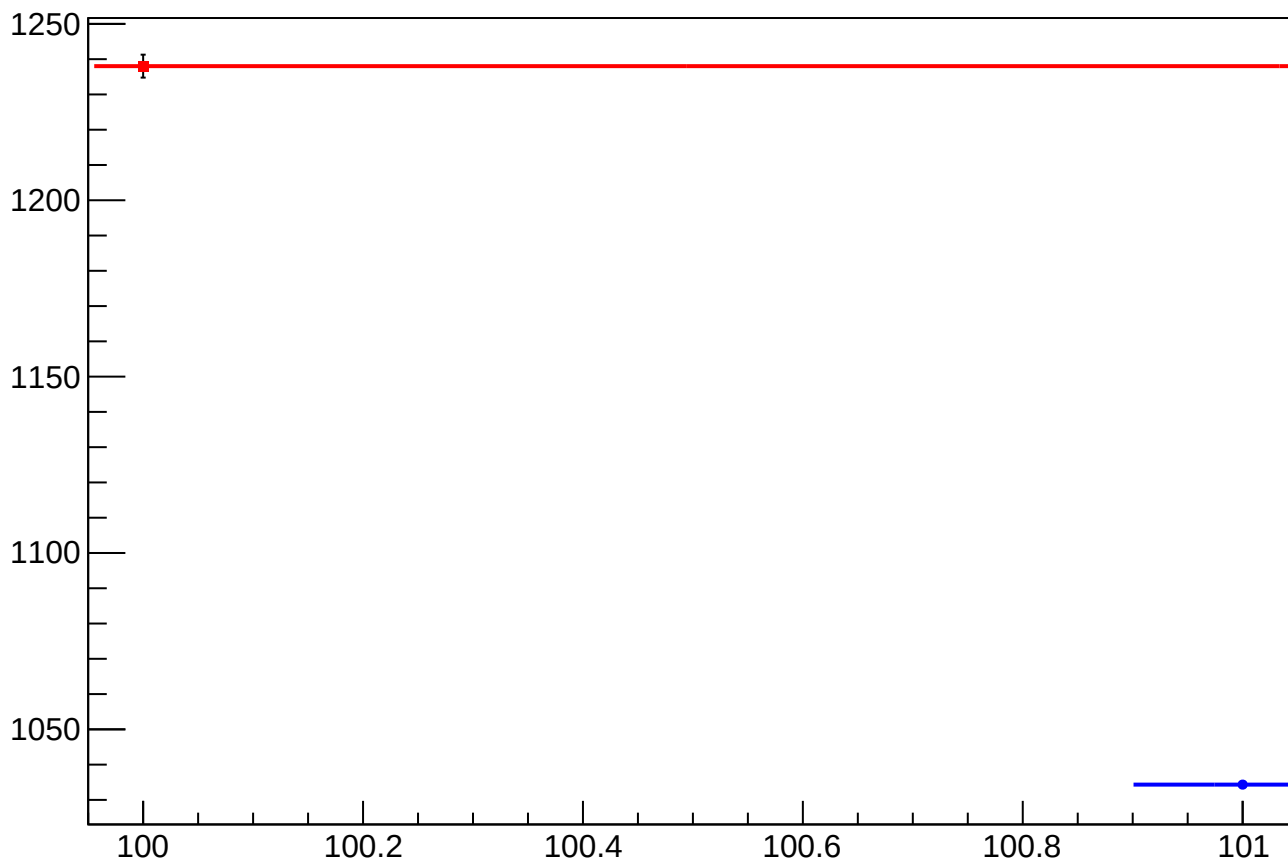
Right: 1941.741+/-1229.168  $\chi^2$ /NDF: 0.2/1

In: 2095.377+/-1275.559  $\chi^2$ /NDF:0.0/0

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

All: 1941.741+/-1229.168  $\chi^2$ /NDF: 0.2/1

# eigen\_cor\_asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1034.332 $\pm$ 0.902  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1238.024 $\pm$ 3.252  $\chi^2$ /NDF: 0.0/0

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

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

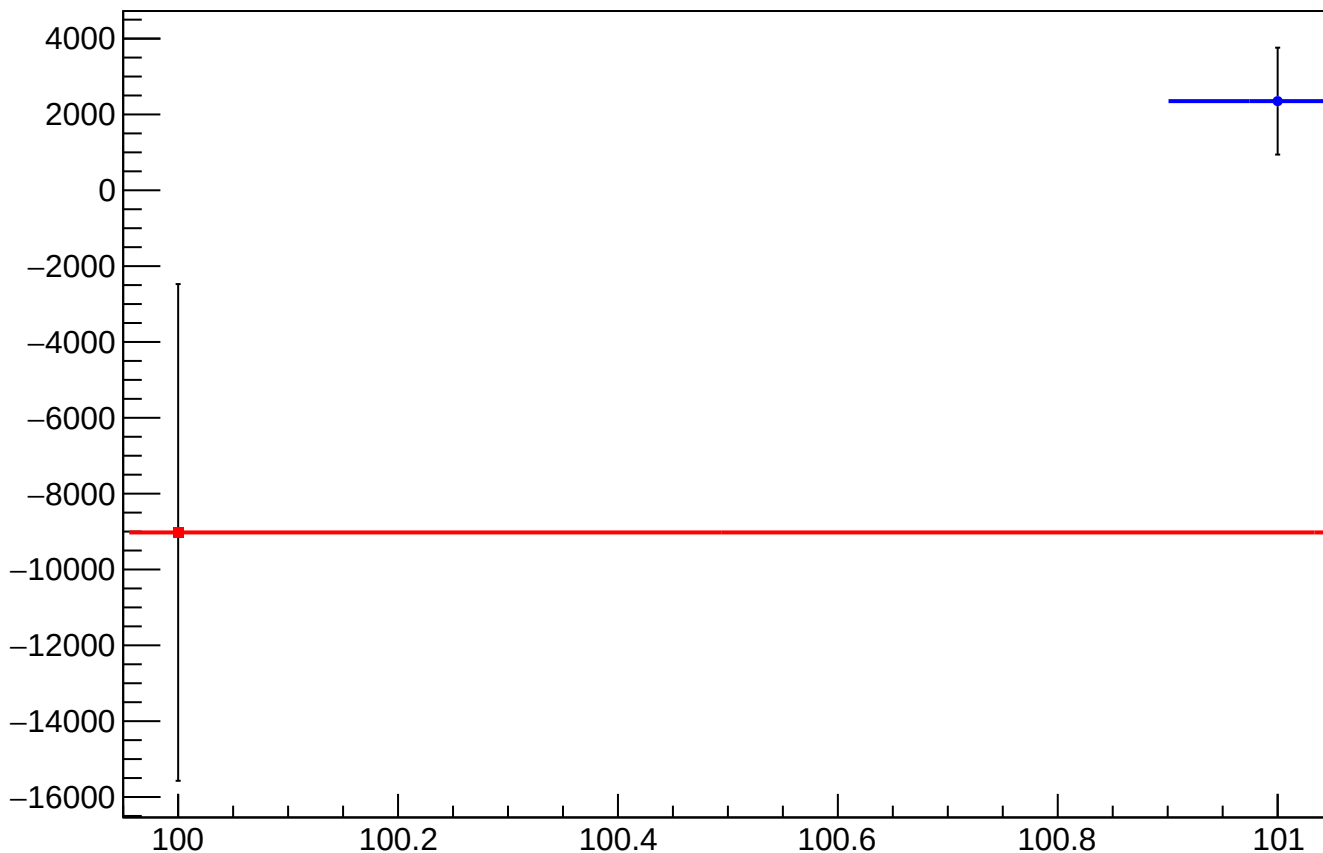
Right: 1048.879 $\pm$ 0.869  $\chi^2$ /NDF: 3642.3/1

In: 1034.332 $\pm$ 0.902  $\chi^2$ /NDF: 0.0/0

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

All: 1048.879 $\pm$ 0.869  $\chi^2$ /NDF: 3642.3/1

asym\_usr\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2351.390+/-1409.640  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -9022.926+/-6549.661  $\chi^2/\text{NDF}$ : 0.0/0

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

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

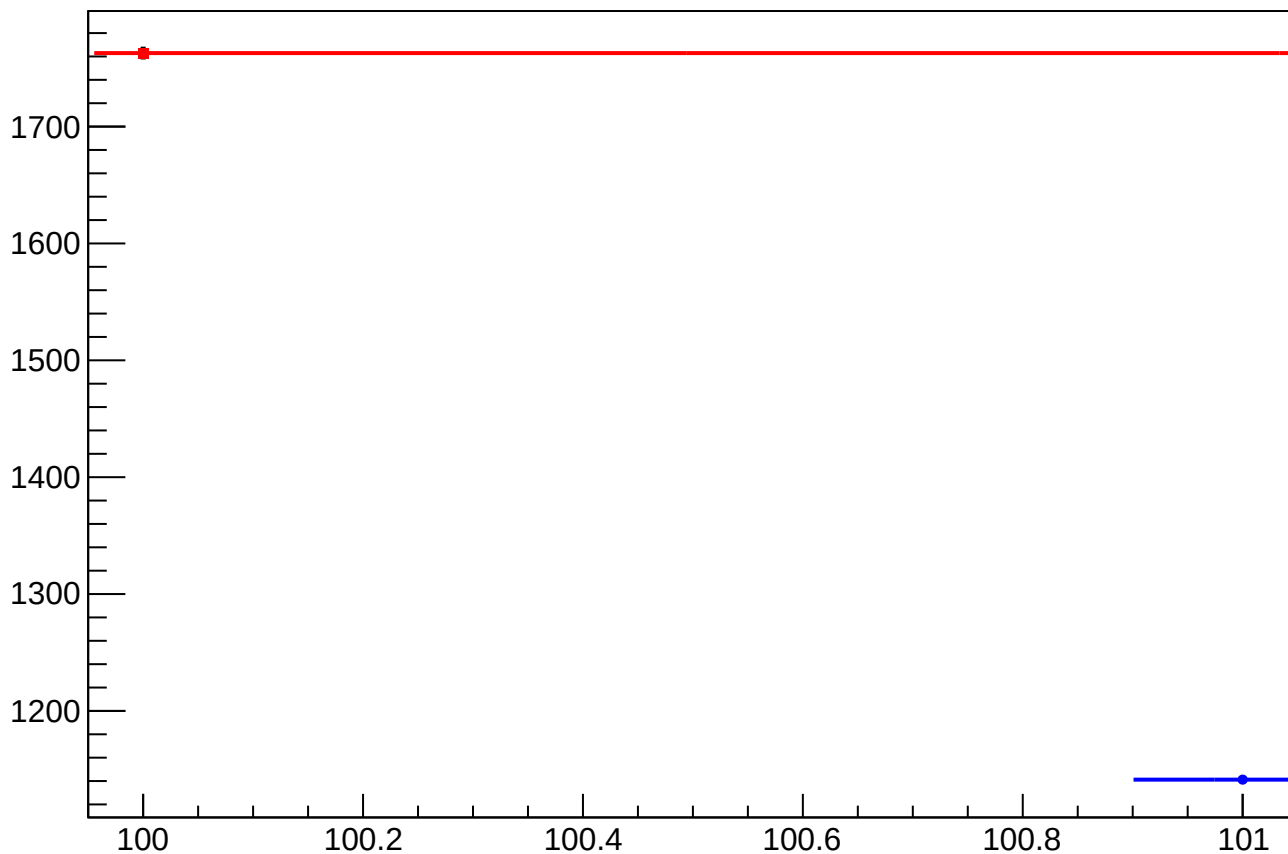
Right: 1847.845+/-1378.084  $\chi^2/\text{NDF}$ : 2.9/1

In: 2351.390+/-1409.640  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1847.845+/-1378.084  $\chi^2/\text{NDF}$ : 2.9/1

asym\_usr\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1141.208 $\pm$ 0.997  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1762.891 $\pm$ 4.631  $\chi^2$ /NDF: 0.0/0

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

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

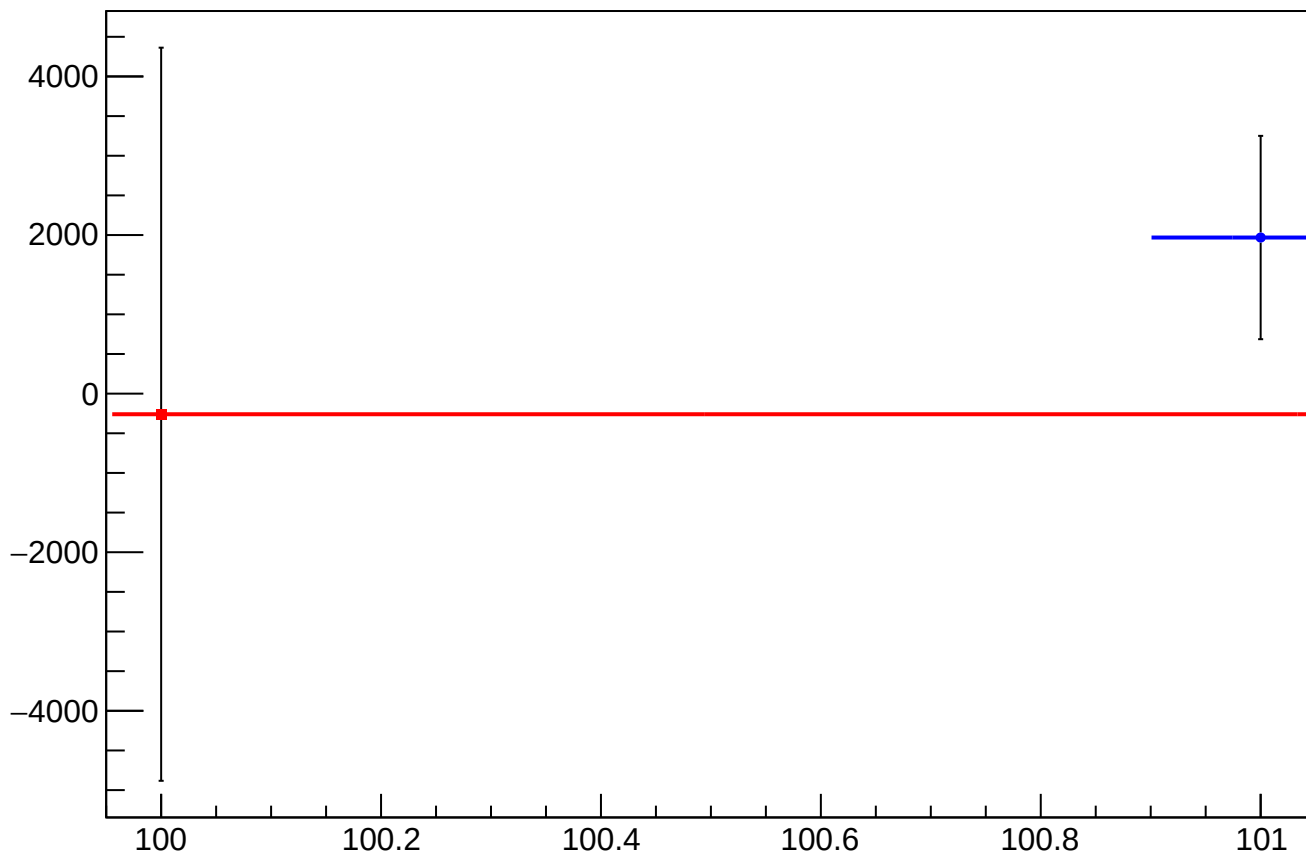
Right: 1168.730 $\pm$ 0.974  $\chi^2$ /NDF: 17221.2/1

In: 1141.208 $\pm$ 0.997  $\chi^2$ /NDF: 0.0/0

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

All: 1168.730 $\pm$ 0.974  $\chi^2$ /NDF: 17221.2/1

# dit\_asym\_usr\_mean vs Slug, Sign Corrected



Right In: 1968.641 $\pm$ 1282.122  $\chi^2$ /NDF: 0.0/0

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

Right Out: -259.810 $\pm$ 4622.807  $\chi^2$ /NDF: 0.0/0

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

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

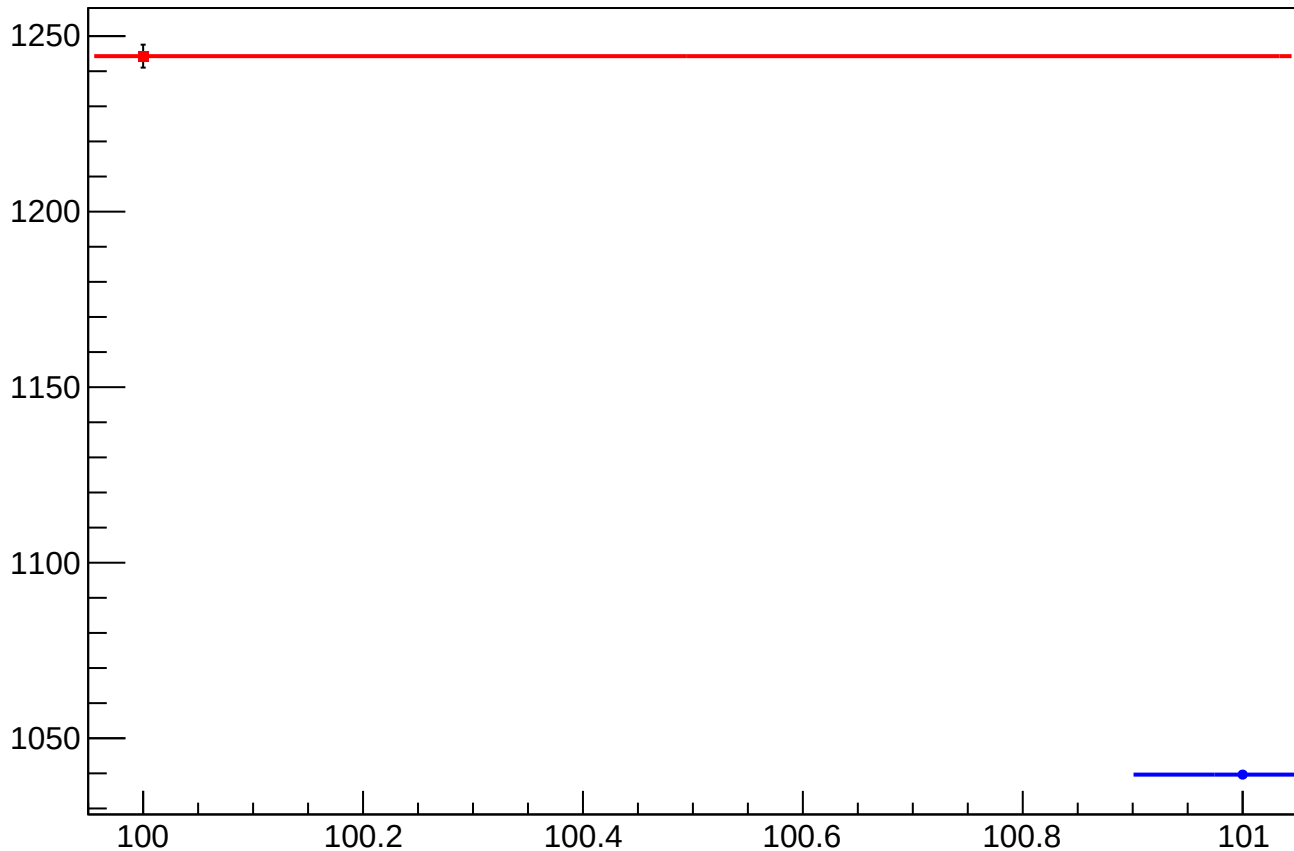
Right: 1809.469 $\pm$ 1235.484  $\chi^2$ /NDF: 0.2/1

In: 1968.641 $\pm$ 1282.122  $\chi^2$ /NDF:0.0/0

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

All: 1809.469 $\pm$ 1235.484  $\chi^2$ /NDF: 0.2/1

# dit\_asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1039.641 $\pm$ 0.907  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1244.293 $\pm$ 3.269  $\chi^2$ /NDF: 0.0/0

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

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

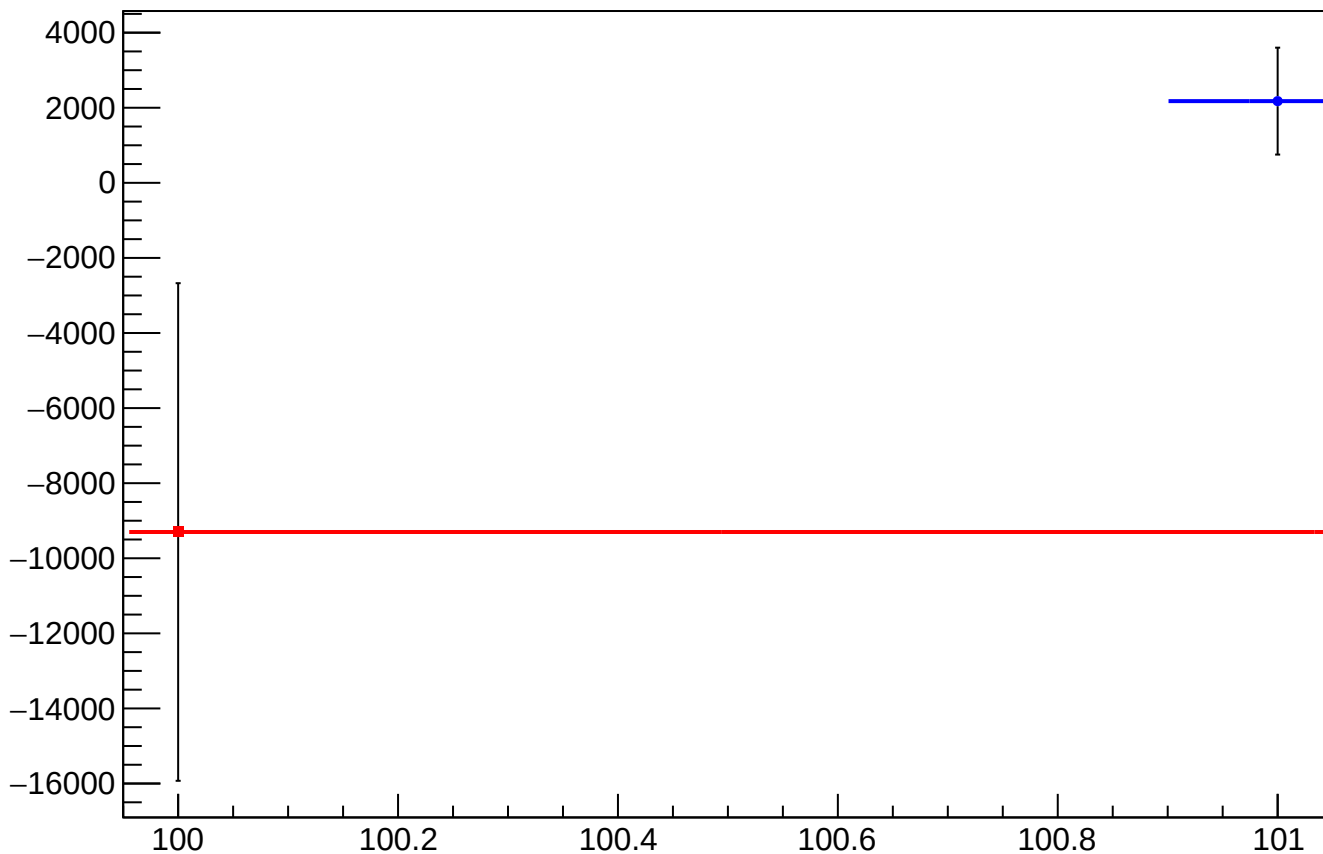
Right: 1054.259 $\pm$ 0.874  $\chi^2$ /NDF: 3639.7/1

In: 1039.641 $\pm$ 0.907  $\chi^2$ /NDF: 0.0/0

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

All: 1054.259 $\pm$ 0.874  $\chi^2$ /NDF: 3639.7/1

asym\_usr\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2176.554+/-1423.686  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -9300.180+/-6627.171  $\chi^2/\text{NDF}$ : 0.0/0

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

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

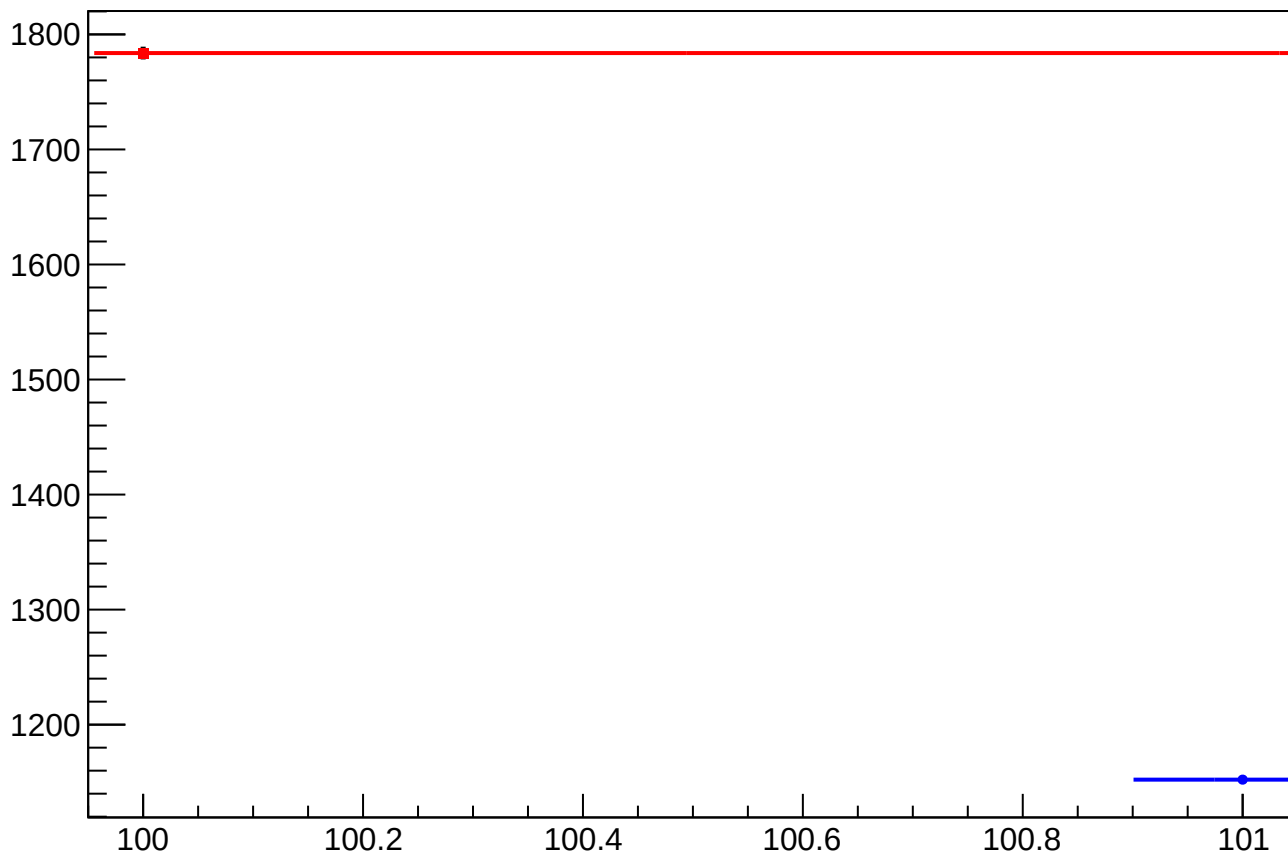
Right: 1670.268+/-1391.929  $\chi^2/\text{NDF}$ : 2.9/1

In: 2176.554+/-1423.686  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1670.268+/-1391.929  $\chi^2/\text{NDF}$ : 2.9/1

asym\_usr\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1152.201 $\pm$ 1.007  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1783.787 $\pm$ 4.686  $\chi^2$ /NDF: 0.0/0

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

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

Right: 1180.063 $\pm$ 0.984  $\chi^2$ /NDF: 17363.8/1

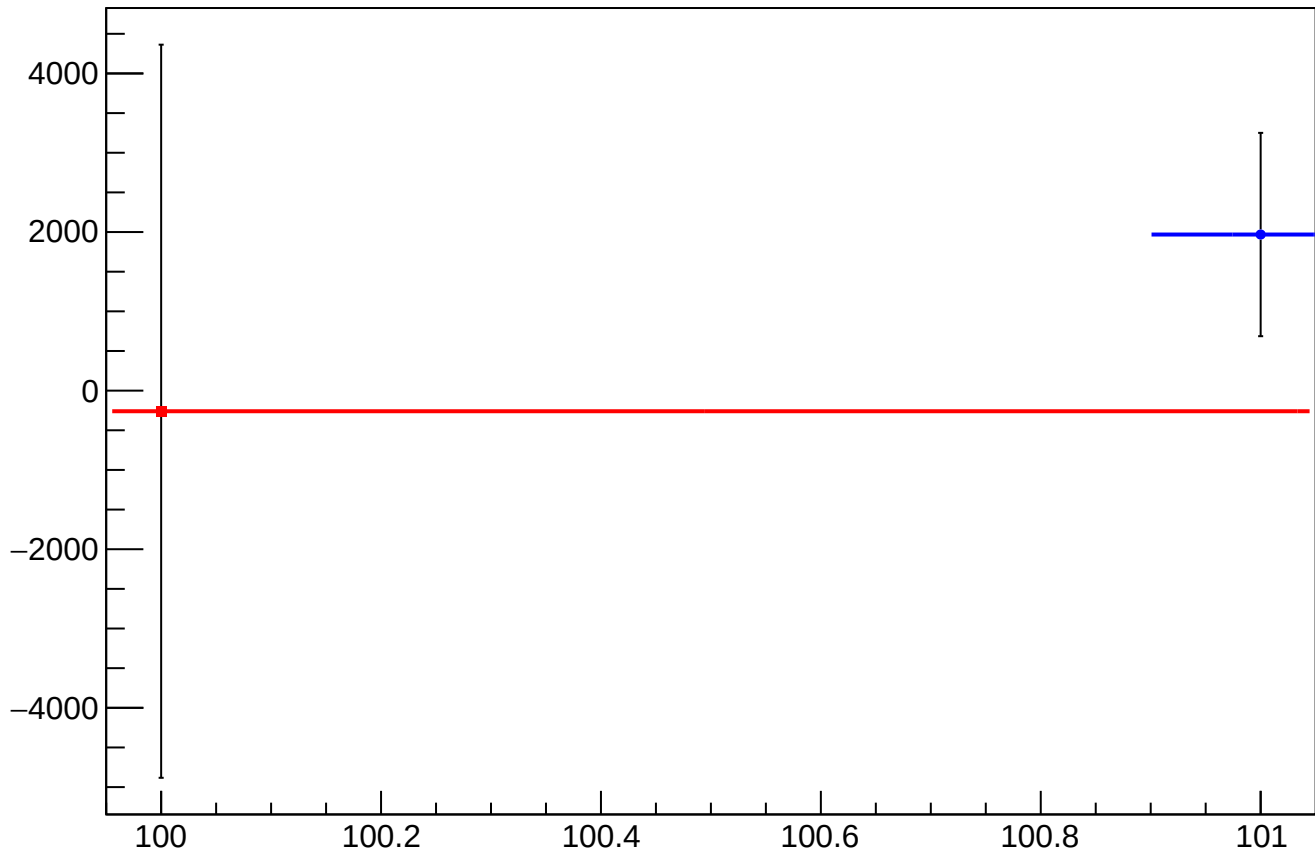
In: 1152.201 $\pm$ 1.007  $\chi^2$ /NDF: 0.0/0

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

All: 1180.063 $\pm$ 0.984  $\chi^2$ /NDF: 17363.8/1



eigen\_dit\_asym\_usr\_mean vs Slug, Sign Corrected



Right In: 1968.637 $\pm$ 1282.122  $\chi^2$ /NDF: 0.0/0

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

Right Out: -259.805 $\pm$ 4622.807  $\chi^2$ /NDF: 0.0/0

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

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

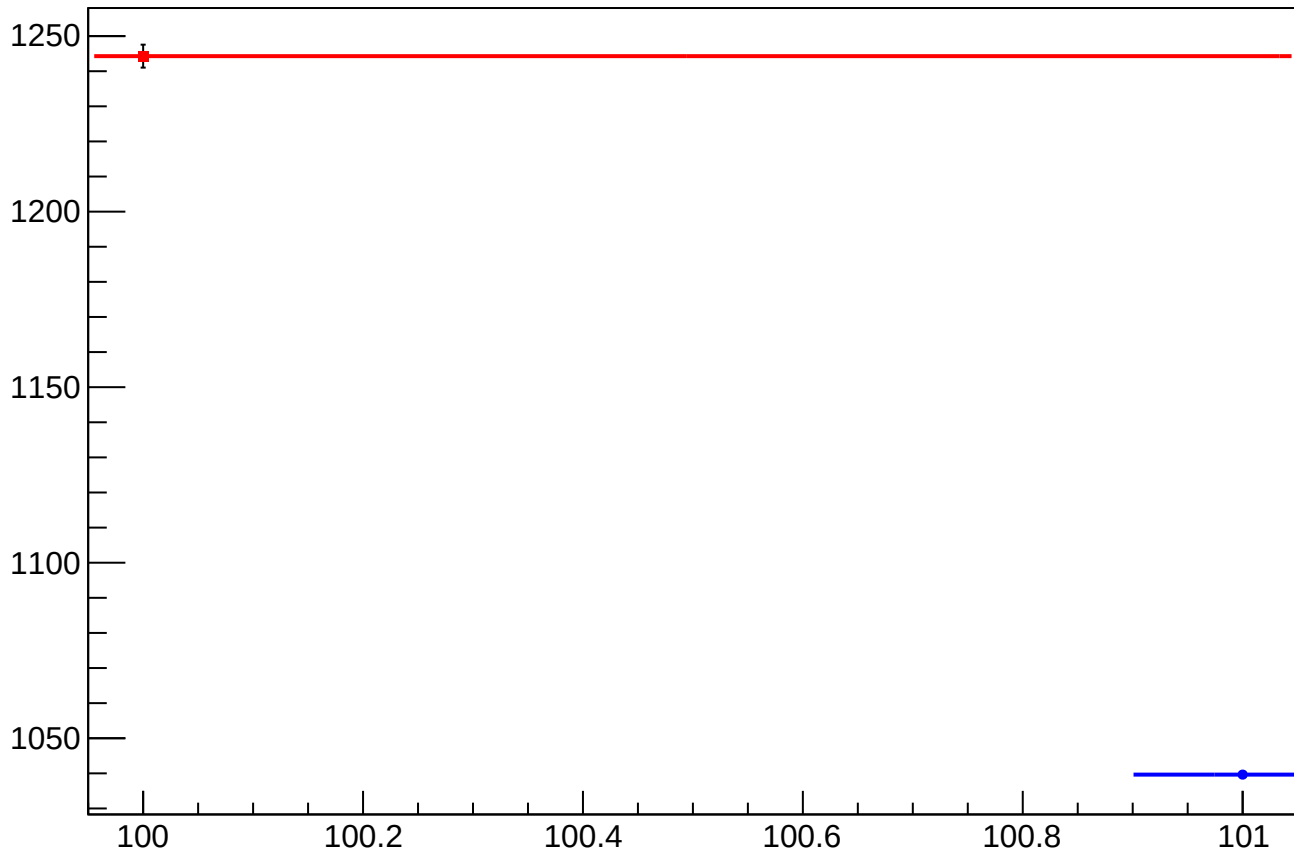
Right: 1809.466 $\pm$ 1235.484  $\chi^2$ /NDF: 0.2/1

In: 1968.637 $\pm$ 1282.122  $\chi^2$ /NDF:0.0/0

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

All: 1809.466 $\pm$ 1235.484  $\chi^2$ /NDF: 0.2/1

# eigen\_dit\_asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1039.641 $\pm$ 0.907  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1244.293 $\pm$ 3.269  $\chi^2$ /NDF: 0.0/0

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

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

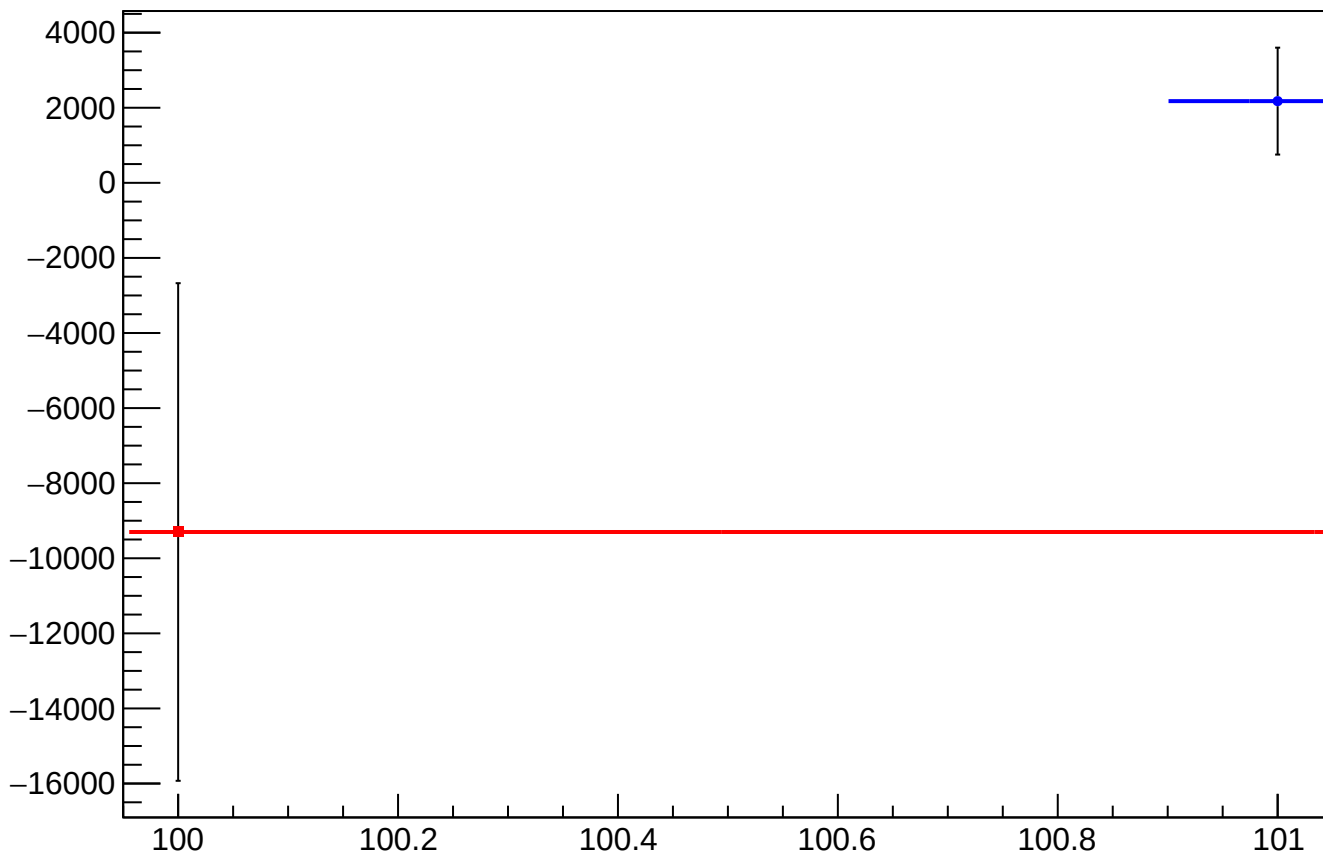
Right: 1054.259 $\pm$ 0.874  $\chi^2$ /NDF: 3639.7/1

In: 1039.641 $\pm$ 0.907  $\chi^2$ /NDF: 0.0/0

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

All: 1054.259 $\pm$ 0.874  $\chi^2$ /NDF: 3639.7/1

asym\_usr\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2176.553+/-1423.685  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -9300.174+/-6627.167  $\chi^2/\text{NDF}$ : 0.0/0

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

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

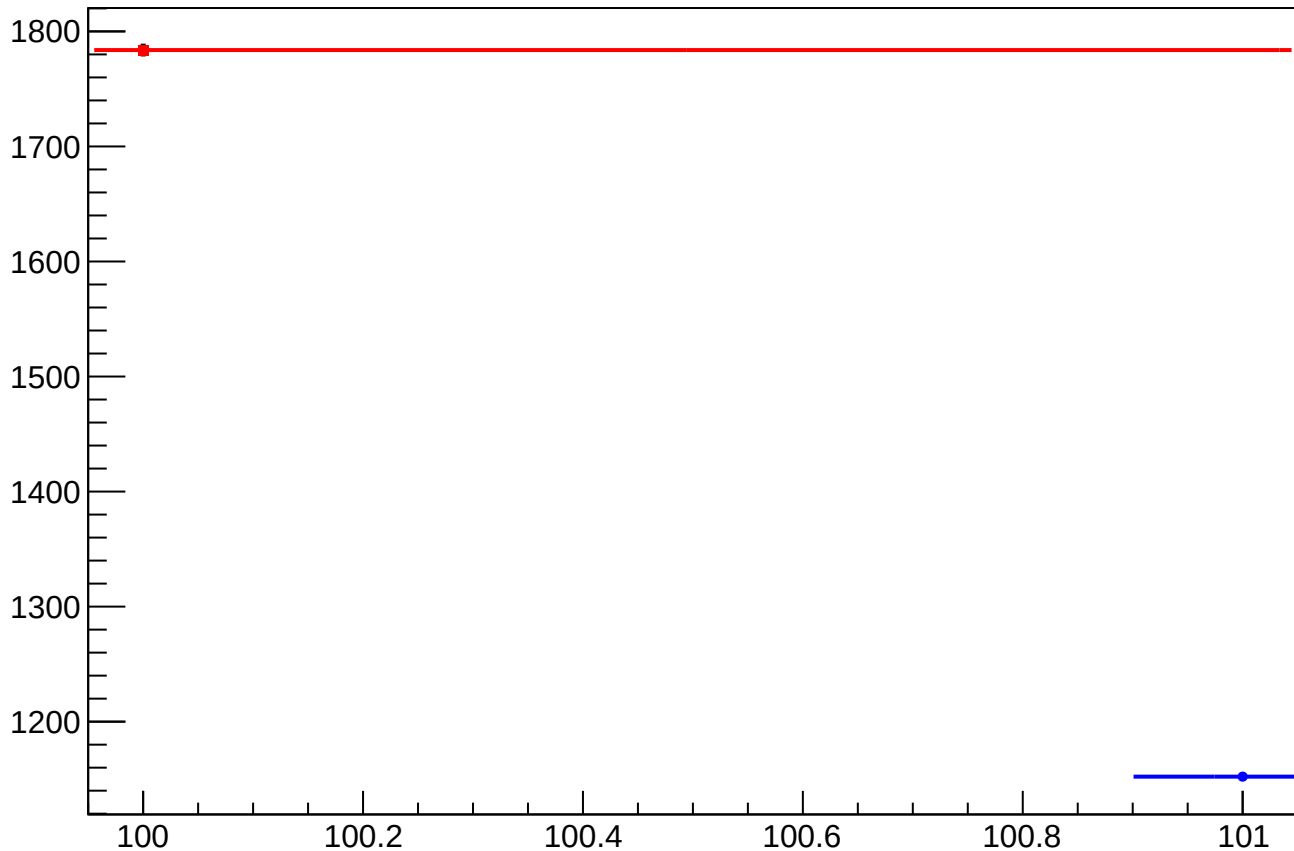
Right: 1670.267+/-1391.928  $\chi^2/\text{NDF}$ : 2.9/1

In: 2176.553+/-1423.685  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1670.267+/-1391.928  $\chi^2/\text{NDF}$ : 2.9/1

asym\_usr\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1152.201 $\pm$ 1.007  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1783.786 $\pm$ 4.686  $\chi^2$ /NDF: 0.0/0

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

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

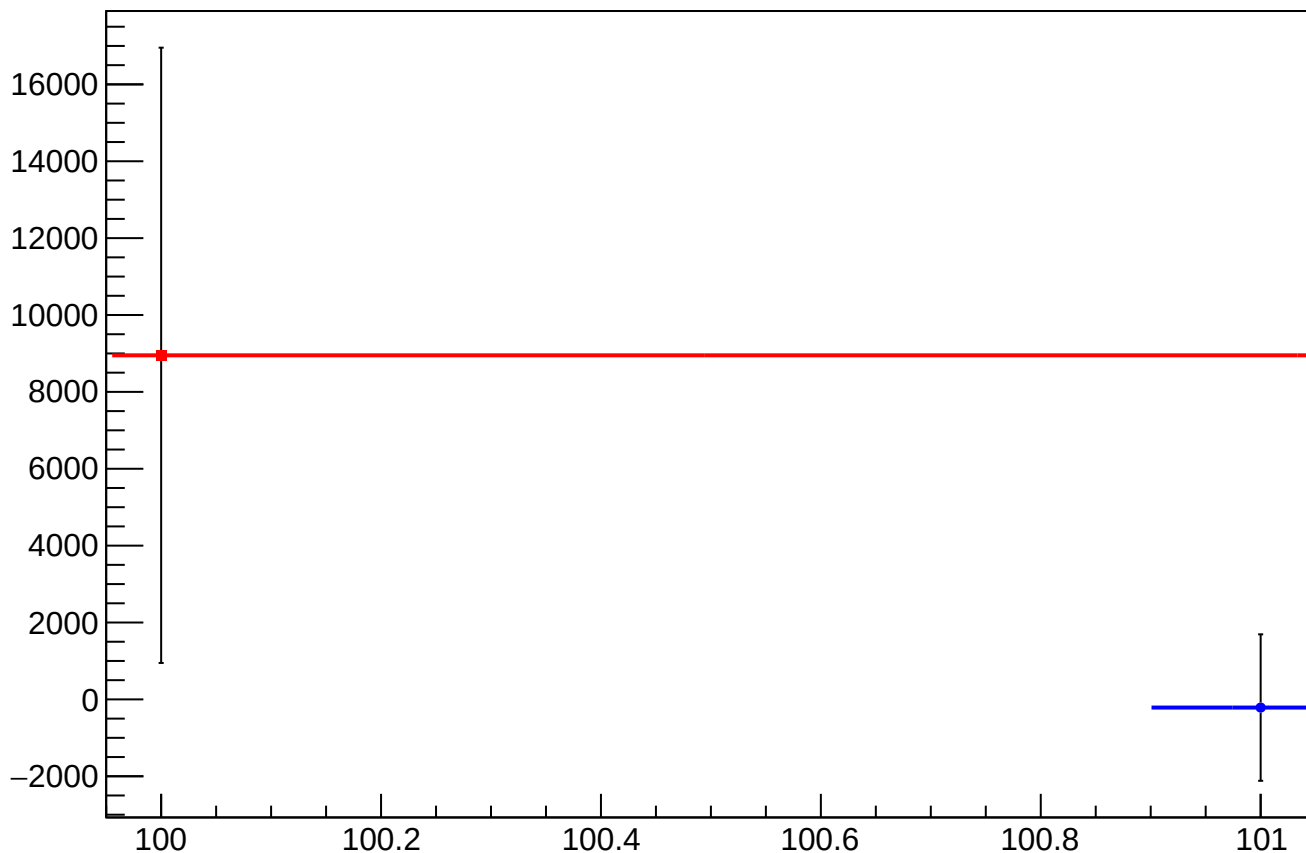
Right: 1180.063 $\pm$ 0.984  $\chi^2$ /NDF: 17363.8/1

In: 1152.201 $\pm$ 1.007  $\chi^2$ /NDF: 0.0/0

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

All: 1180.063 $\pm$ 0.984  $\chi^2$ /NDF: 17363.8/1

# asym\_usr\_mean vs Slug, Sign Corrected



Right In: -212.579+/-1905.343  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8951.362+/-8003.649  $\chi^2/\text{NDF}$ : 0.0/0

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

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

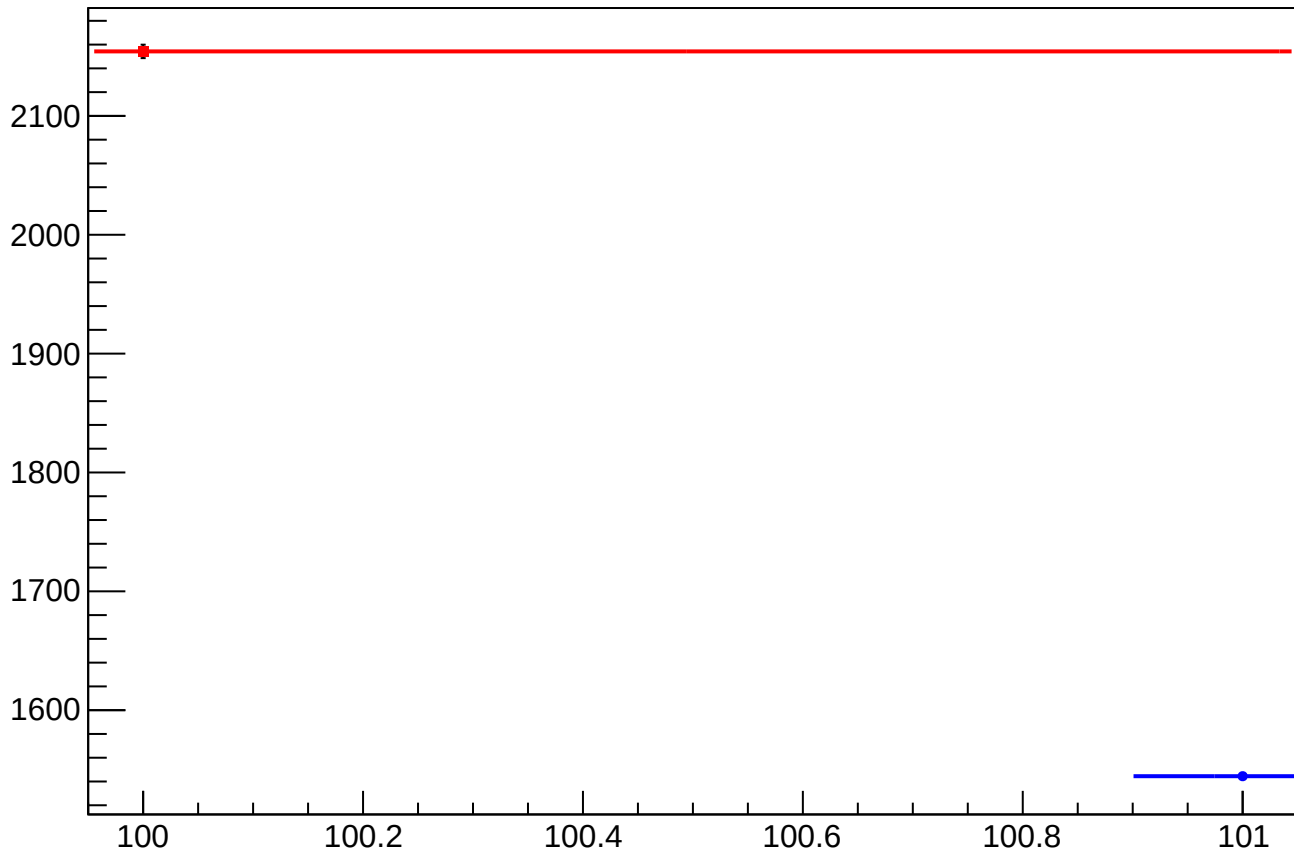
Right: 278.908+/-1853.544  $\chi^2/\text{NDF}$ : 1.2/1

In: -212.579+/-1905.343  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 278.908+/-1853.544  $\chi^2/\text{NDF}$ : 1.2/1

# asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1544.459+/-1.347  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 2154.278+/-5.659  $\chi^2/\text{NDF}$ : 0.0/0

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

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

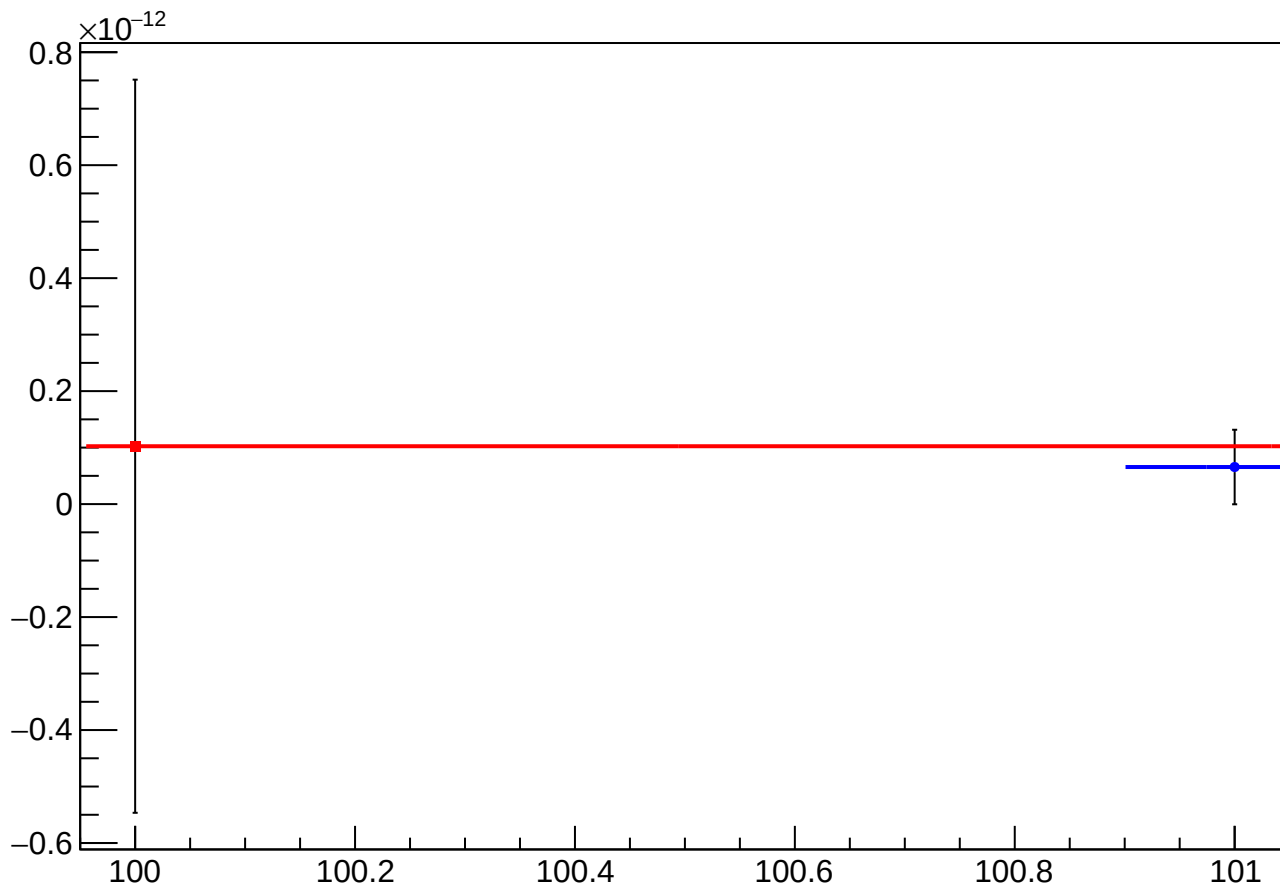
Right: 1577.165+/-1.311  $\chi^2/\text{NDF}$ : 10988.0/1

In: 1544.459+/-1.347  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1577.165+/-1.311  $\chi^2/\text{NDF}$ : 10988.0/1

asym\_usr\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

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

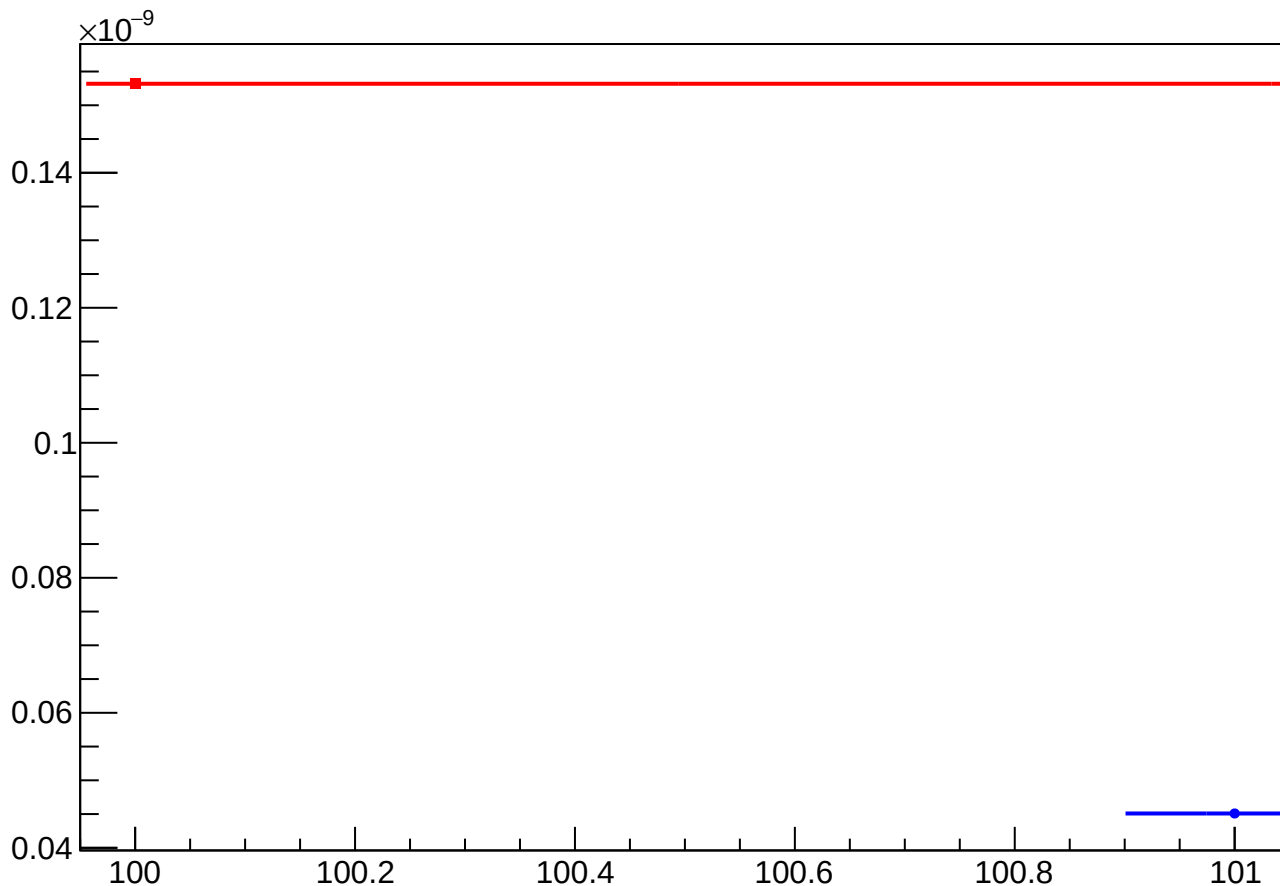
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

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

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usr\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 54930.5/1

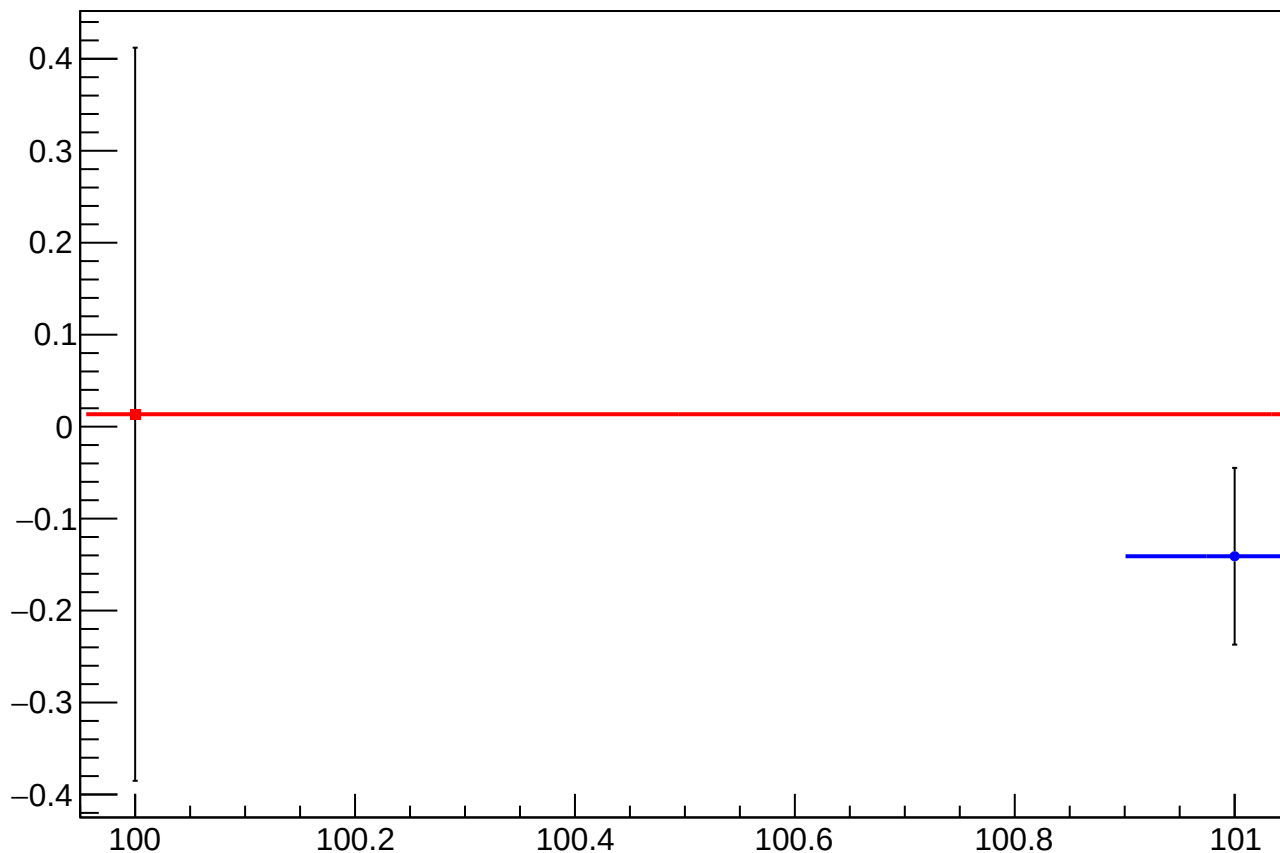
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 54930.5/1



asym\_usr\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.141+/-0.096  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.013+/-0.399  $\chi^2/\text{NDF}$ : 0.0/0

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

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

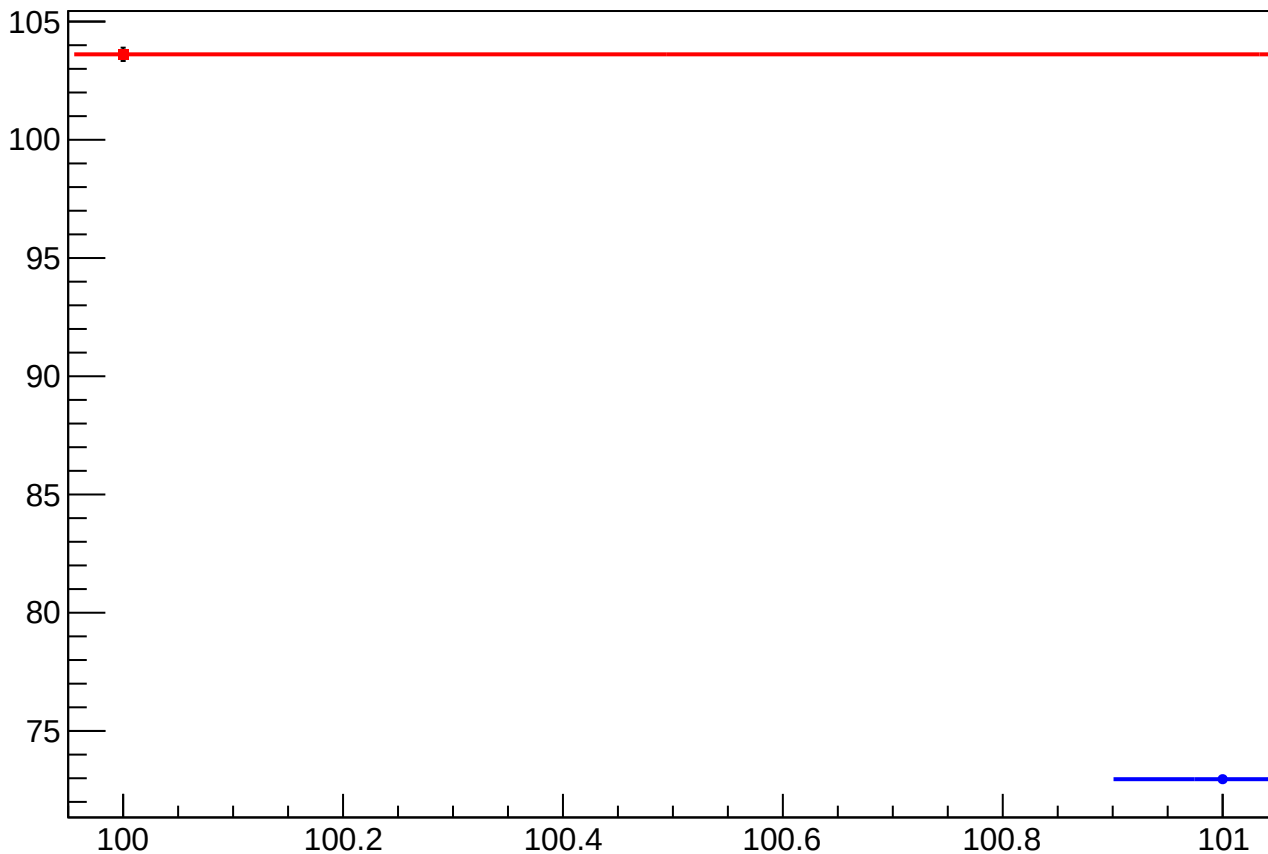
Right: -0.132+/-0.093  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.141+/-0.096  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.132+/-0.093  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 72.960 $\pm$ 0.068  $\chi^2$ /NDF: 0.0/0

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

Right Out: 103.614 $\pm$ 0.282  $\chi^2$ /NDF: 0.0/0

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

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

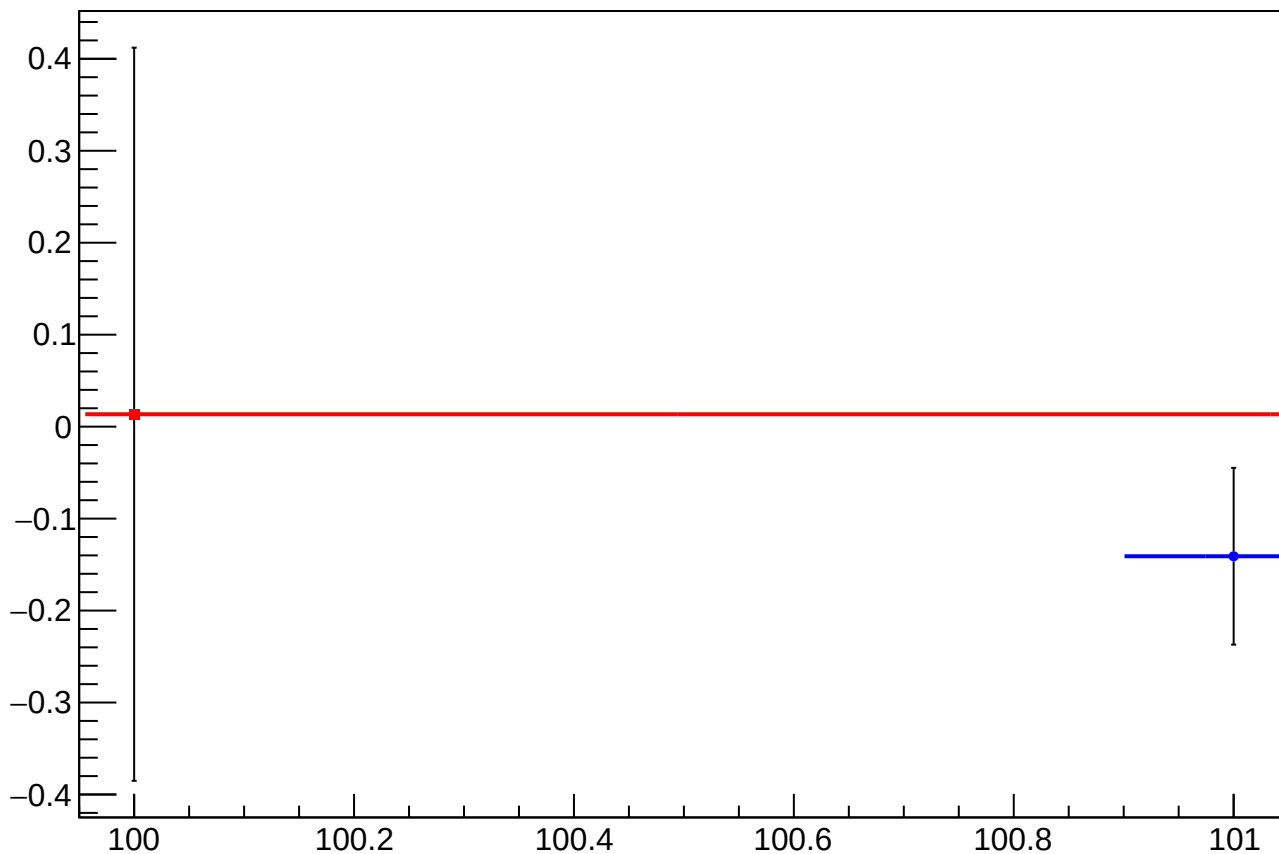
Right: 74.644 $\pm$ 0.066  $\chi^2$ /NDF: 11178.1/1

In: 72.960 $\pm$ 0.068  $\chi^2$ /NDF: 0.0/0

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

All: 74.644 $\pm$ 0.066  $\chi^2$ /NDF: 11178.1/1

asym\_usr\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.141 $\pm$ 0.096  $\chi^2$ /NDF: 0.0/0

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

Right Out: 0.013 $\pm$ 0.399  $\chi^2$ /NDF: 0.0/0

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

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

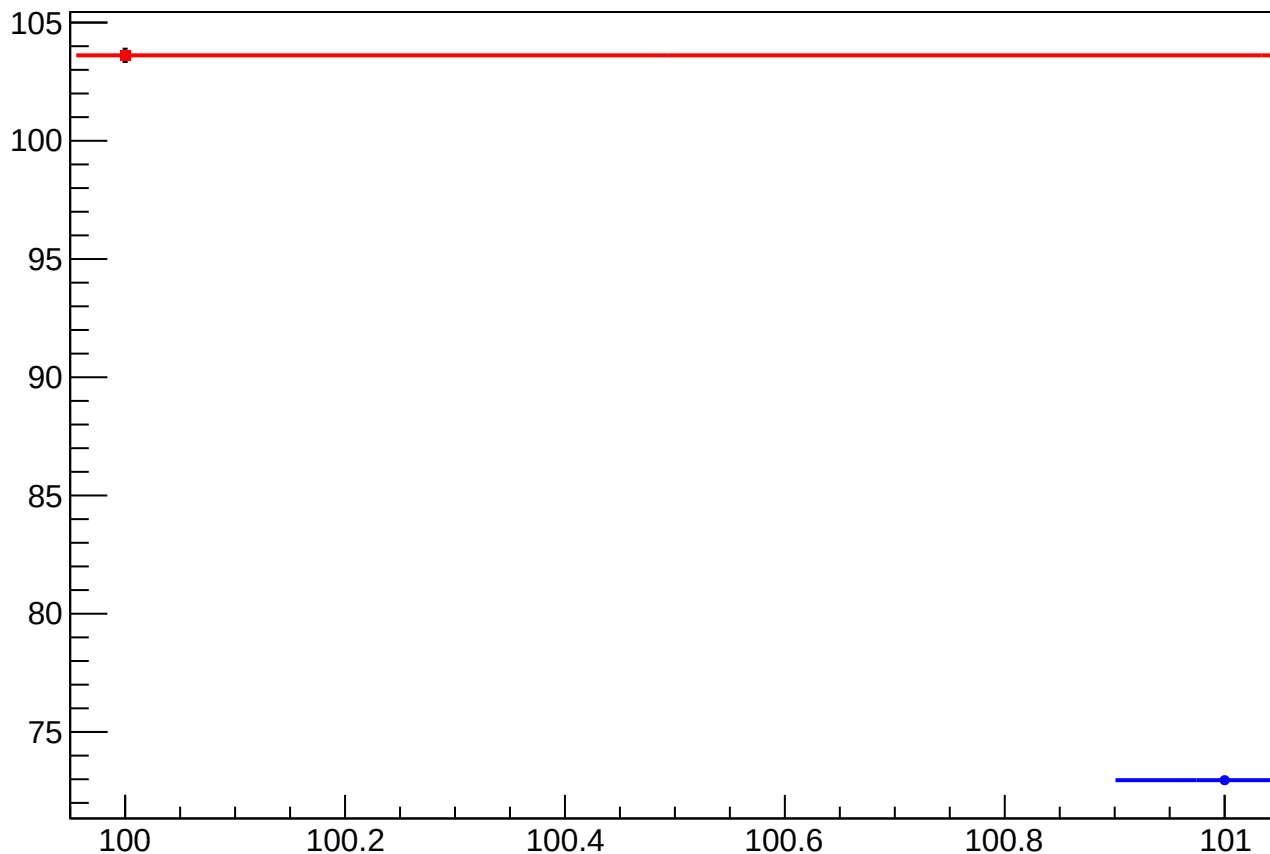
Right: -0.132 $\pm$ 0.093  $\chi^2$ /NDF: 0.1/1

In: -0.141 $\pm$ 0.096  $\chi^2$ /NDF:0.0/0

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

All: -0.132 $\pm$ 0.093  $\chi^2$ /NDF: 0.1/1

asym\_usr\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 72.960 $\pm$ 0.068  $\chi^2$ /NDF: 0.0/0

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

Right Out: 103.614 $\pm$ 0.282  $\chi^2$ /NDF: 0.0/0

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

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

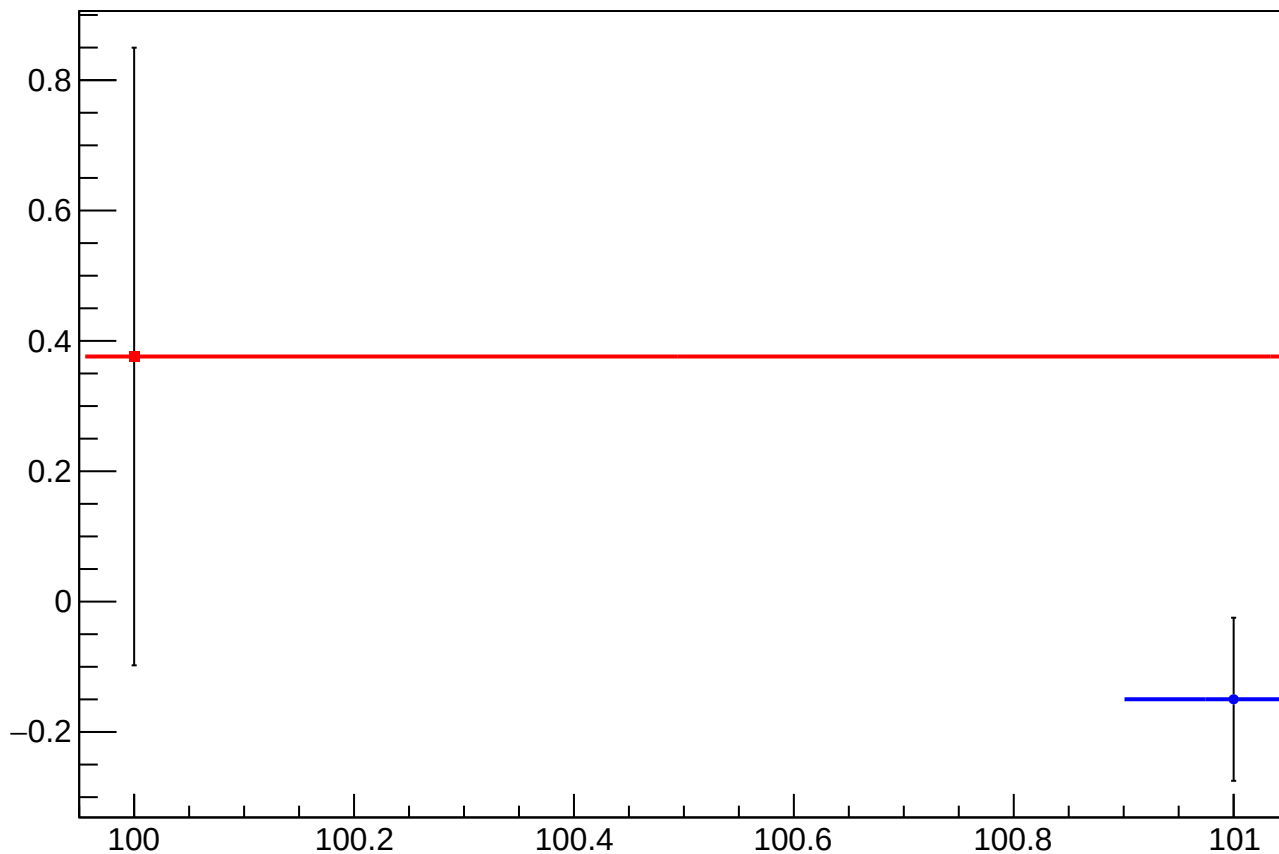
Right: 74.644 $\pm$ 0.066  $\chi^2$ /NDF: 11178.1/1

In: 72.960 $\pm$ 0.068  $\chi^2$ /NDF: 0.0/0

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

All: 74.644 $\pm$ 0.066  $\chi^2$ /NDF: 11178.1/1

asym\_usr\_dit\_vs\_overload\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.150+/-0.125  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.376+/-0.474  $\chi^2/\text{NDF}$ : 0.0/0

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

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

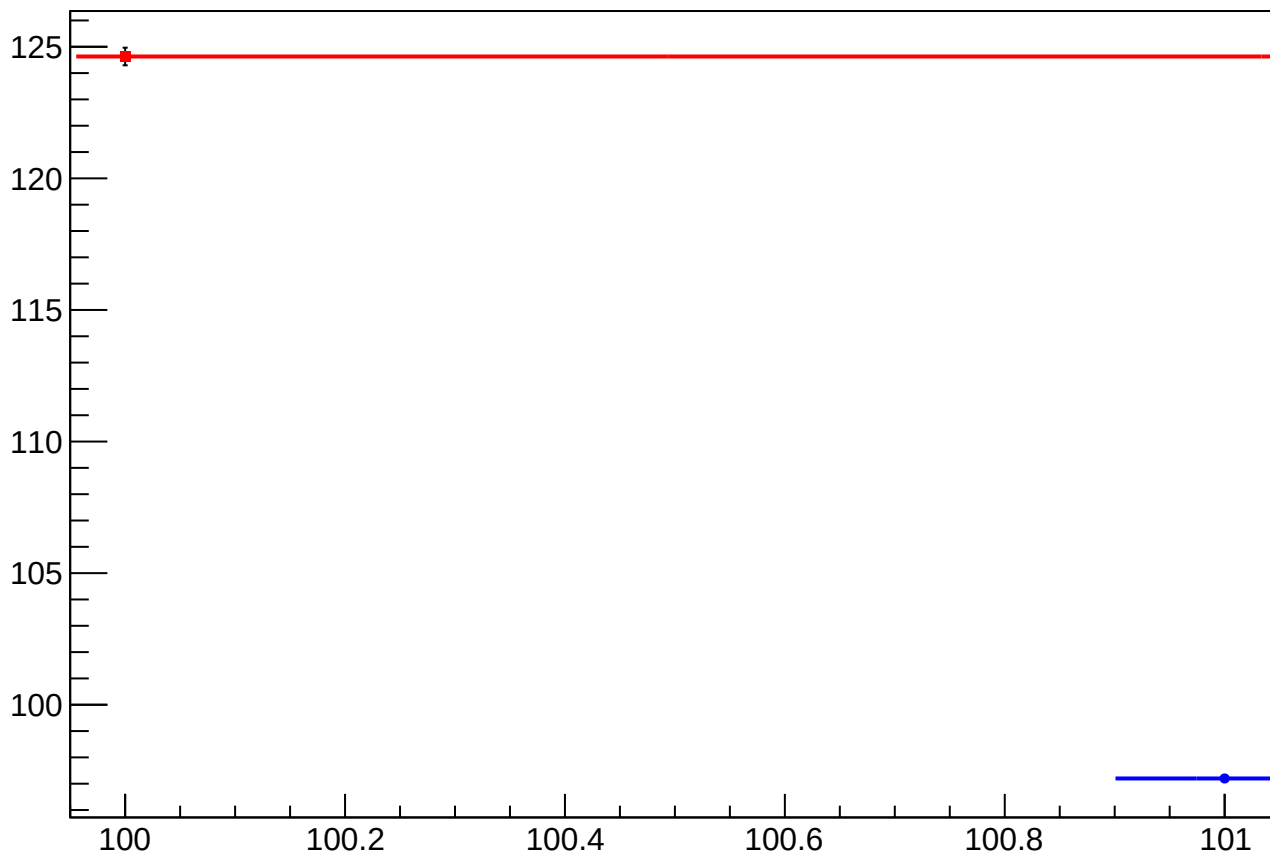
Right: -0.116+/-0.121  $\chi^2/\text{NDF}$ : 1.2/1

In: -0.150+/-0.125  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.116+/-0.121  $\chi^2/\text{NDF}$ : 1.2/1

asym\_usr\_dit\_vs\_overload\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 97.199+/-0.088  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 124.631+/-0.335  $\chi^2/\text{NDF}$ : 0.0/0

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

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

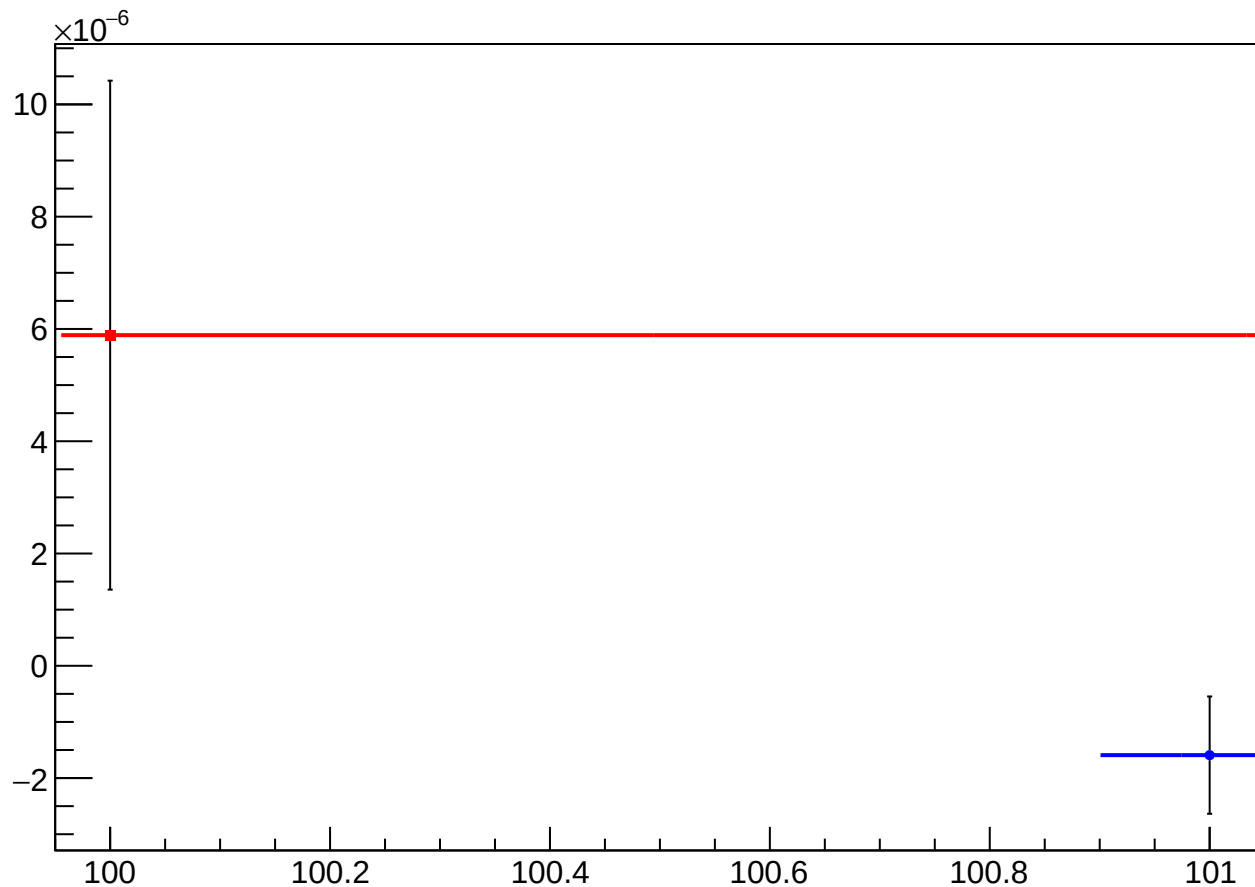
Right: 98.986+/-0.086  $\chi^2/\text{NDF}$ : 6266.9/1

In: 97.199+/-0.088  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 98.986+/-0.086  $\chi^2/\text{NDF}$ : 6266.9/1

asym\_usr\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

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

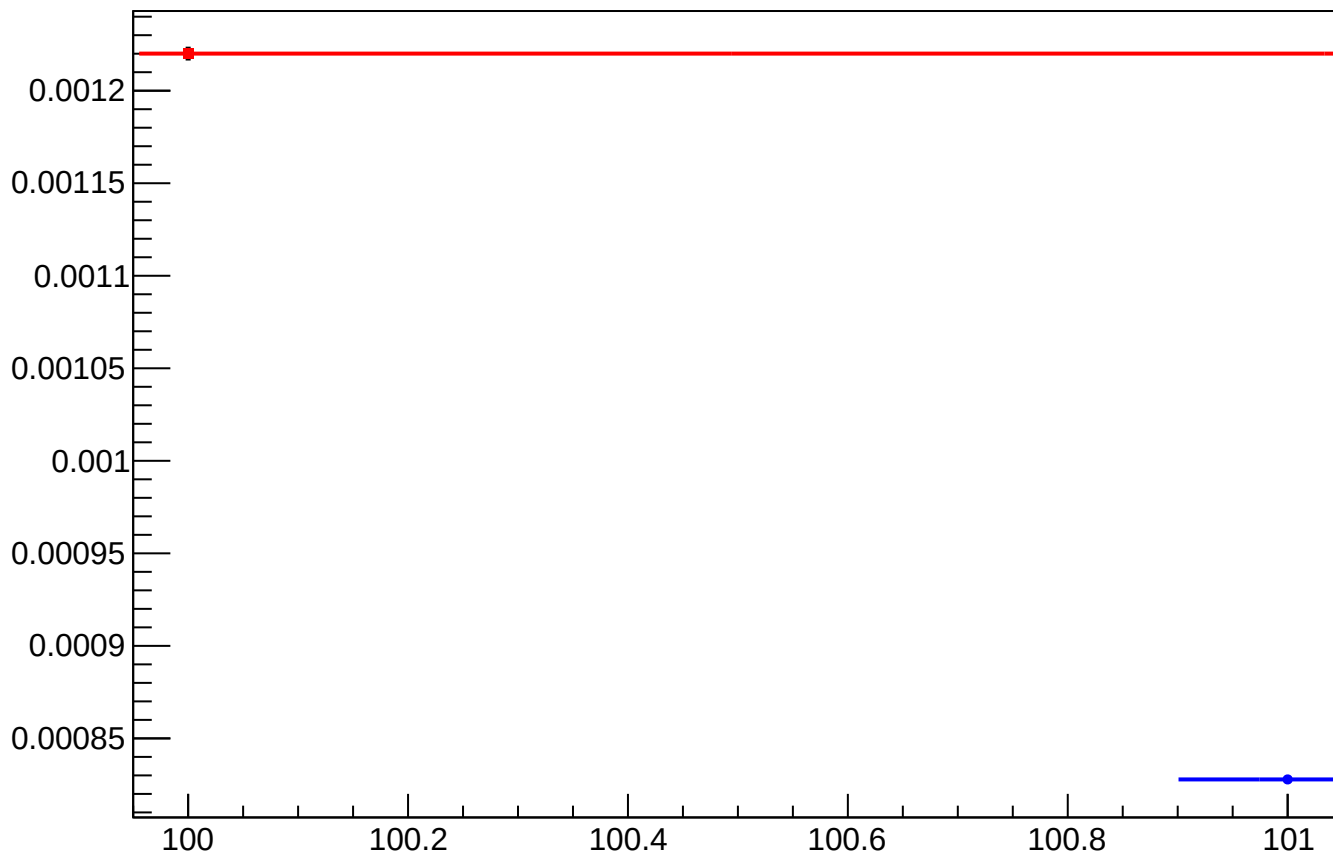
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.6/1

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

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

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.6/1

asym\_usr\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 14219.0/1

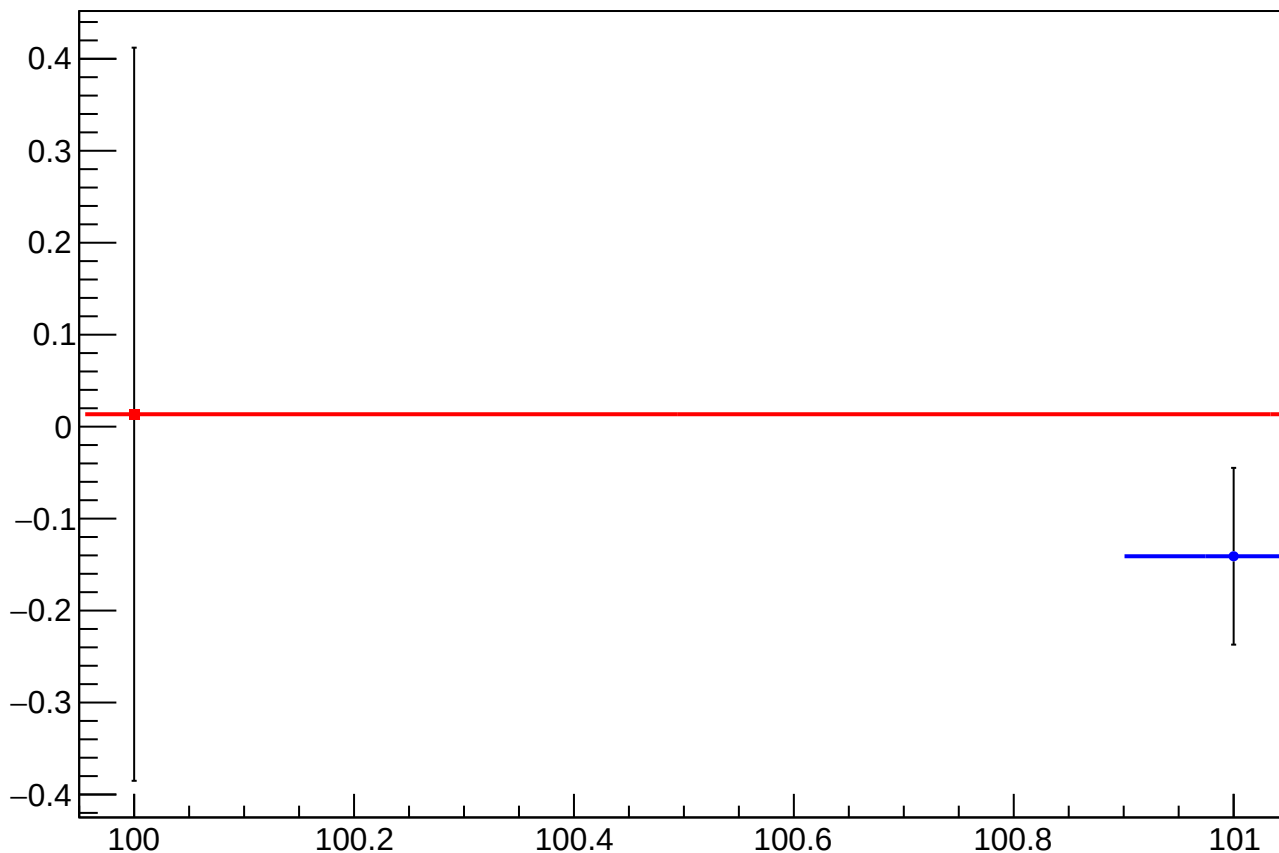
In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 14219.0/1



asym\_usr\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.141+/-0.096  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.014+/-0.399  $\chi^2/\text{NDF}$ : 0.0/0

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

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

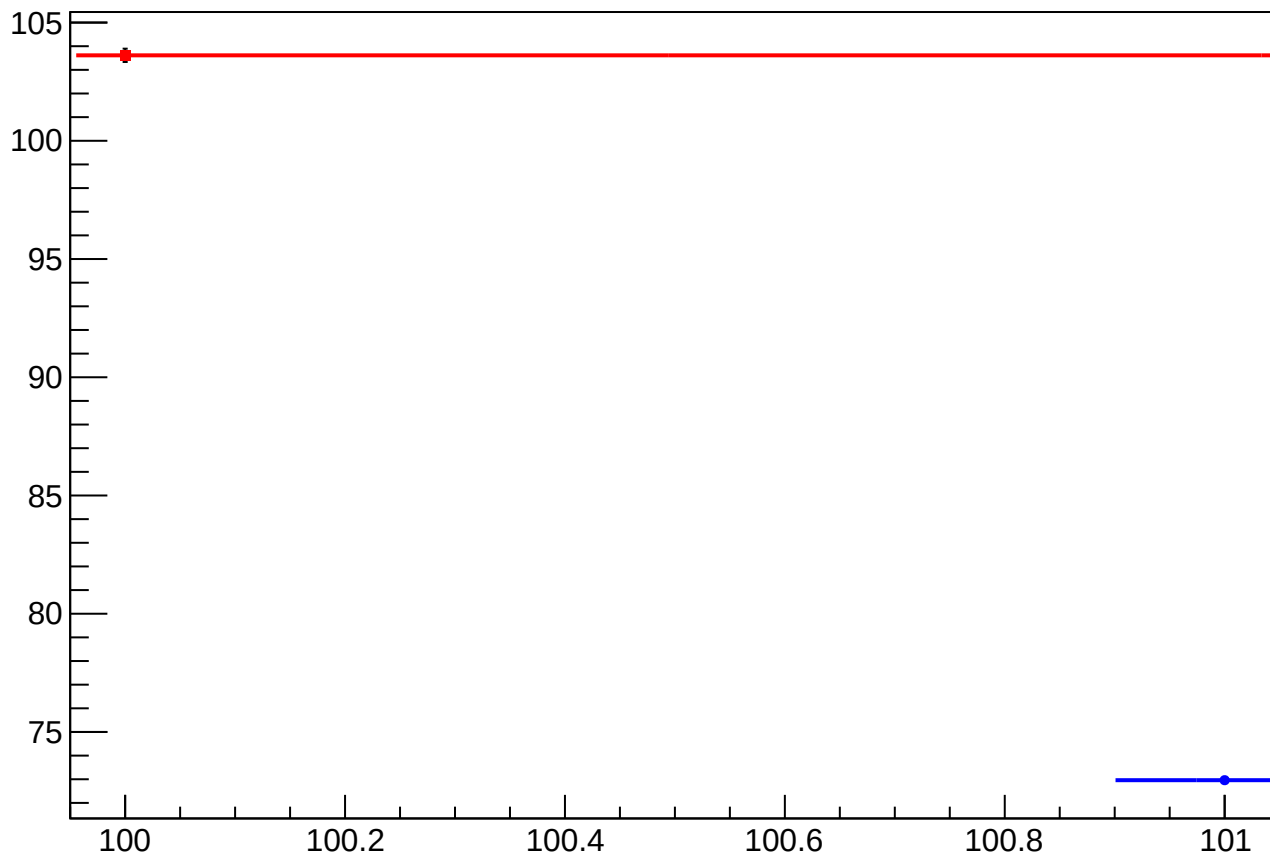
Right: -0.132+/-0.093  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.141+/-0.096  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.132+/-0.093  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 72.960+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 103.614+/-0.282  $\chi^2/\text{NDF}$ : 0.0/0

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

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

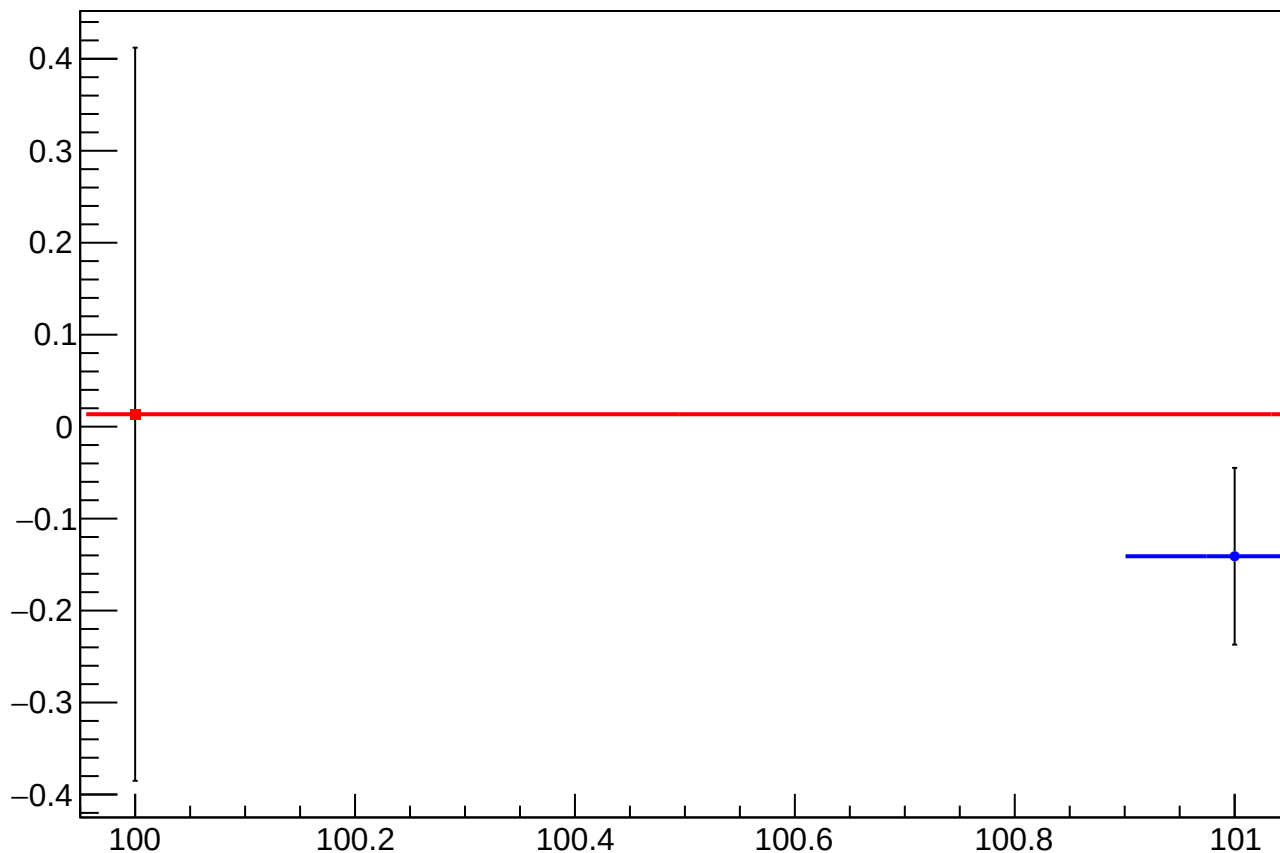
Right: 74.645+/-0.066  $\chi^2/\text{NDF}$ : 11178.0/1

In: 72.960+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 74.645+/-0.066  $\chi^2/\text{NDF}$ : 11178.0/1

asym\_usr\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.141+/-0.096  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.014+/-0.399  $\chi^2/\text{NDF}$ : 0.0/0

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

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

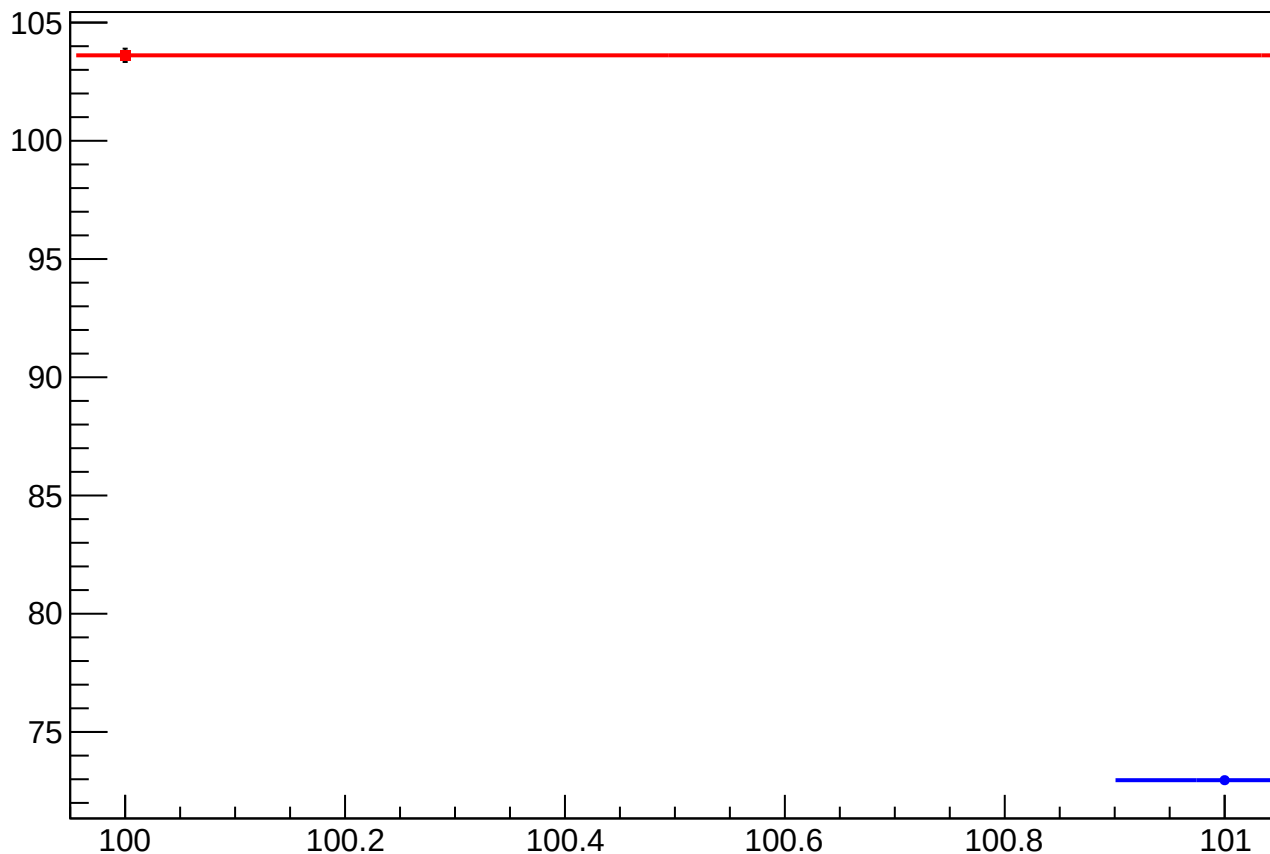
Right: -0.132+/-0.093  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.141+/-0.096  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.132+/-0.093  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 72.960+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 103.614+/-0.282  $\chi^2/\text{NDF}$ : 0.0/0

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

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

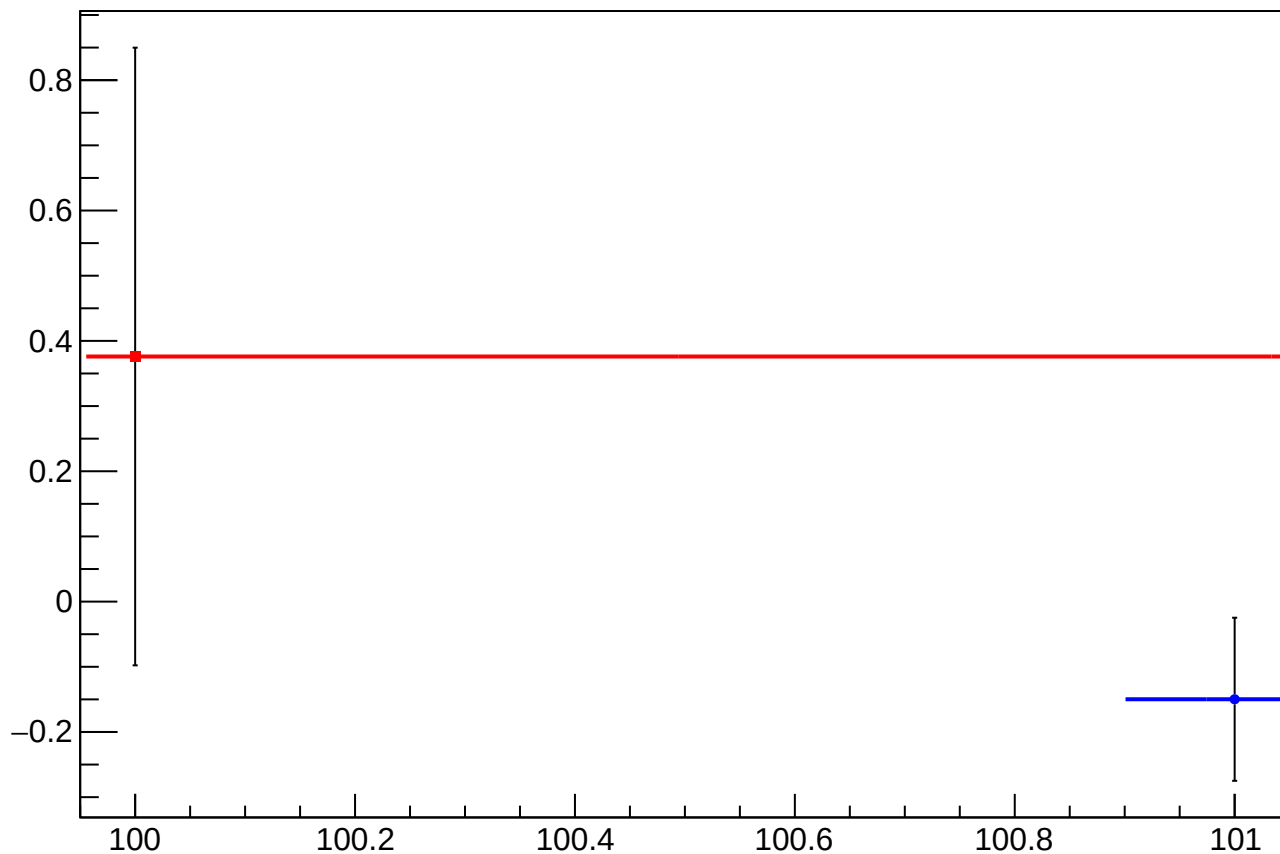
Right: 74.645+/-0.066  $\chi^2/\text{NDF}$ : 11178.0/1

In: 72.960+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 74.645+/-0.066  $\chi^2/\text{NDF}$ : 11178.0/1

asym\_usr\_eigen\_dit\_vs\_overload\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.150+/-0.125  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 0.376+/-0.474  $\chi^2/\text{NDF}$ : 0.0/0

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

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

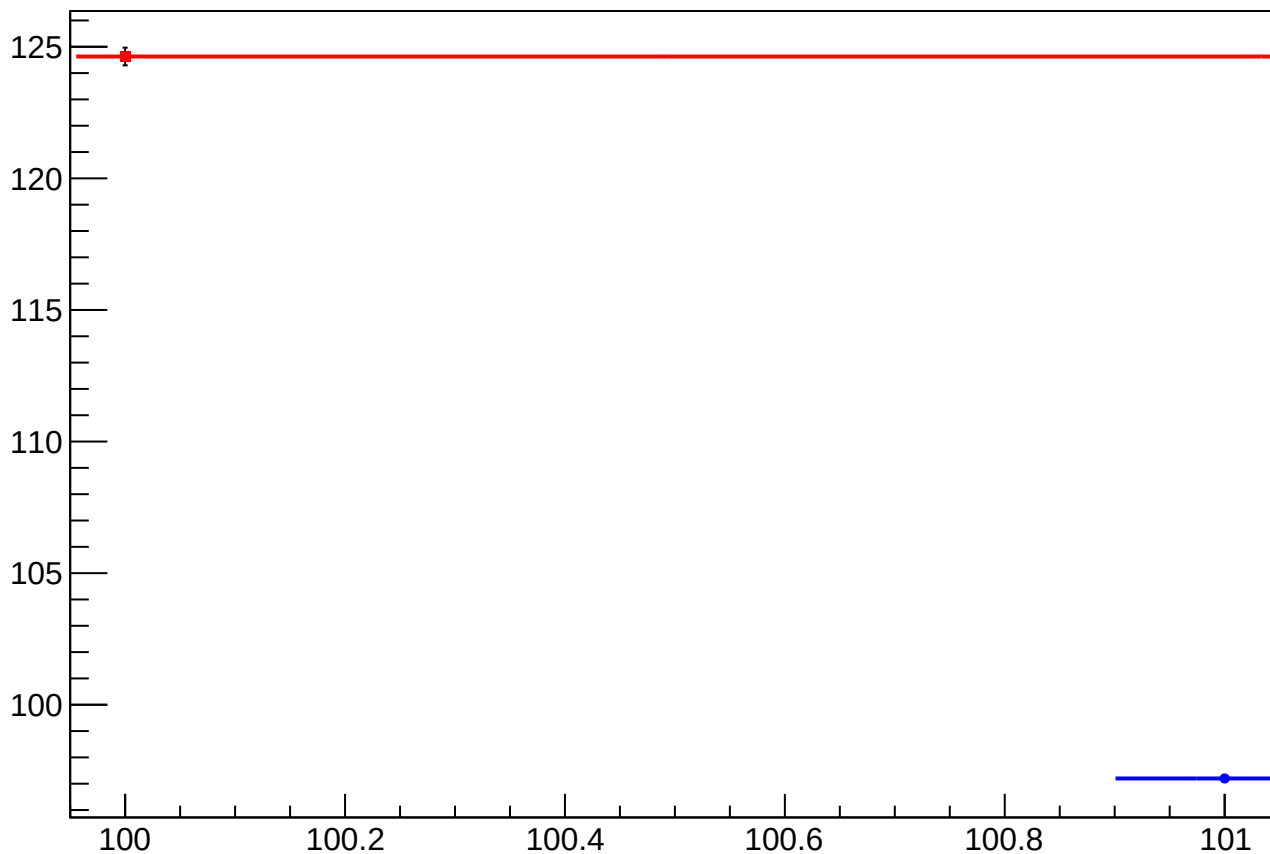
Right: -0.116+/-0.121  $\chi^2/\text{NDF}$ : 1.2/1

In: -0.150+/-0.125  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.116+/-0.121  $\chi^2/\text{NDF}$ : 1.2/1

asym\_usr\_eigen\_dit\_vs\_overload\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 97.199+/-0.088  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 124.631+/-0.335  $\chi^2/\text{NDF}$ : 0.0/0

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

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

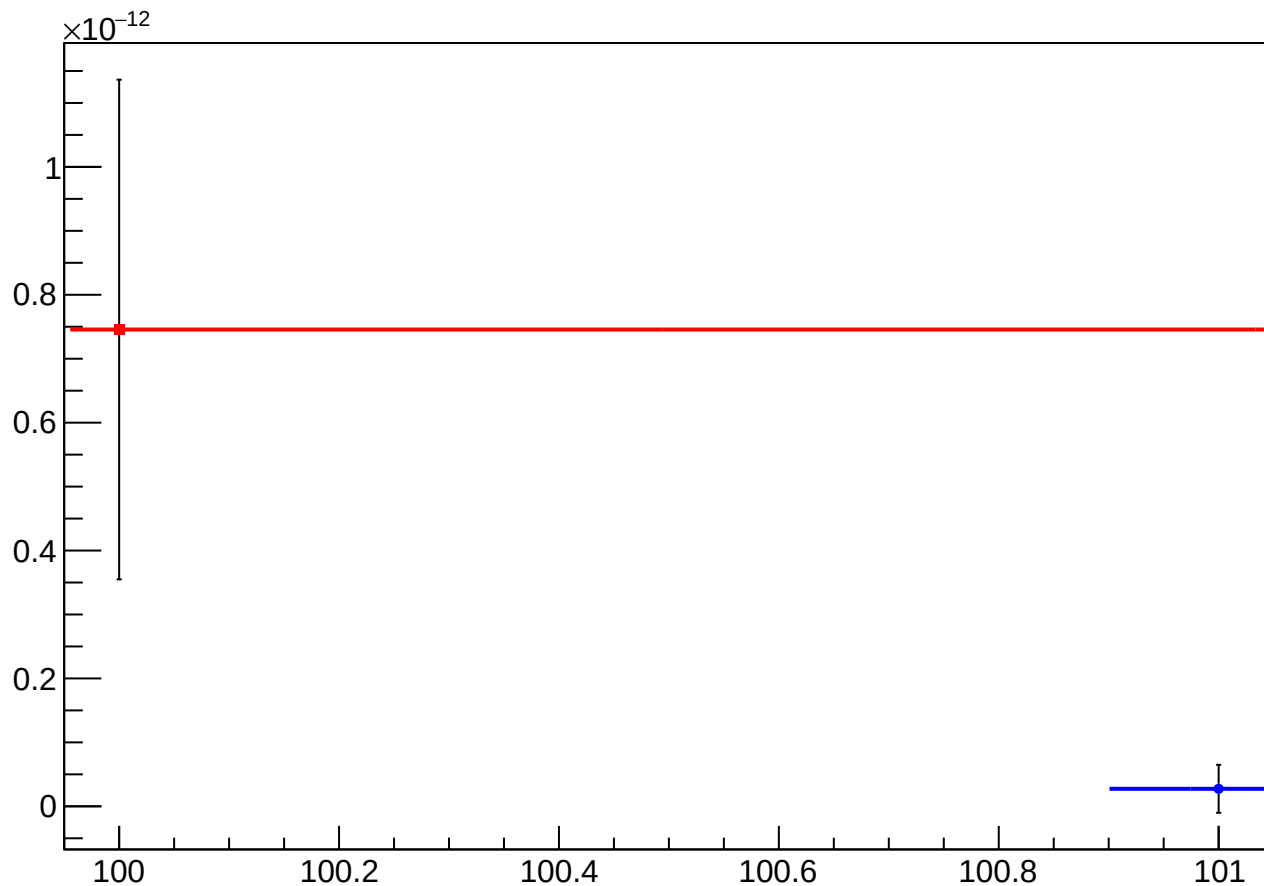
Right: 98.986+/-0.086  $\chi^2/\text{NDF}$ : 6266.8/1

In: 97.199+/-0.088  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 98.986+/-0.086  $\chi^2/\text{NDF}$ : 6266.8/1

asym\_usr\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

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

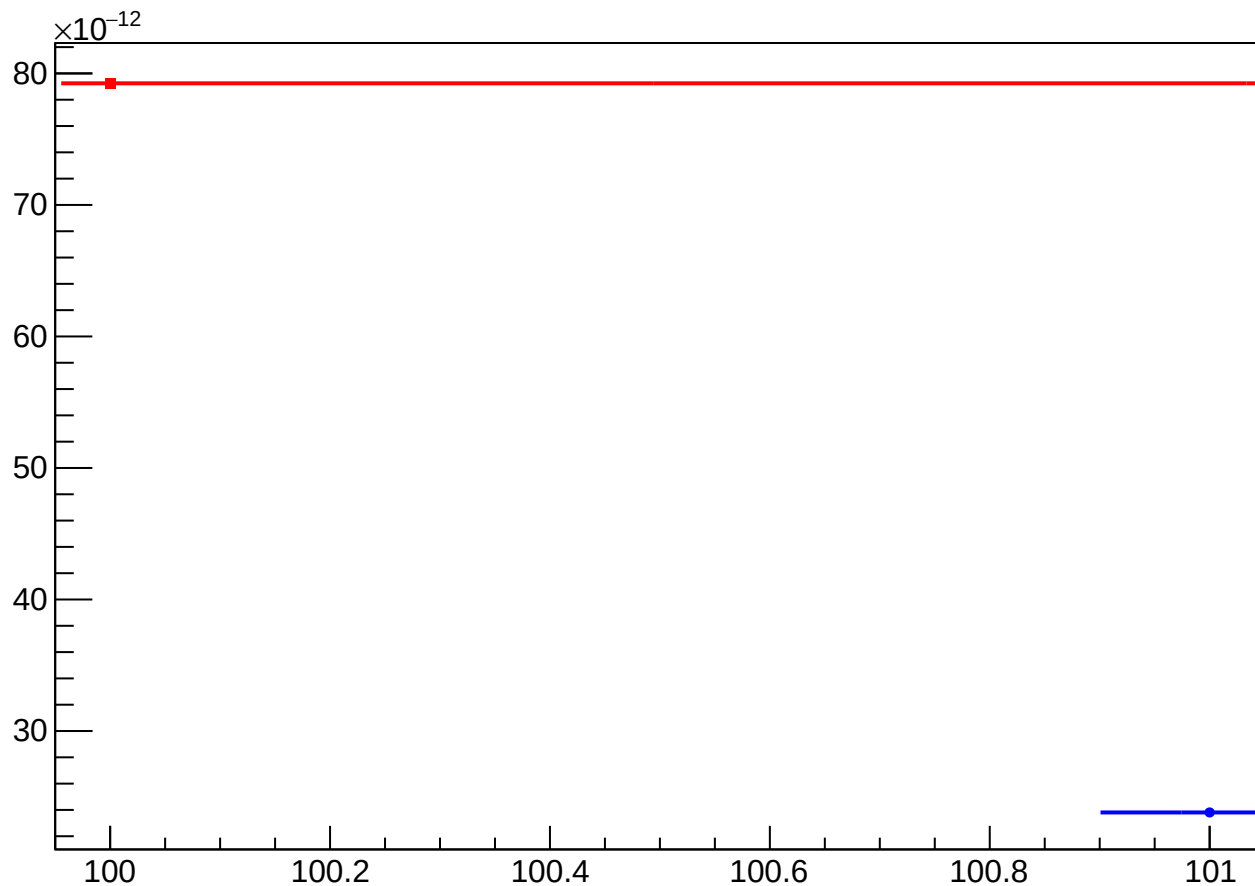
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.3/1

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

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.3/1

asym\_usr\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

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

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 39895.8/1

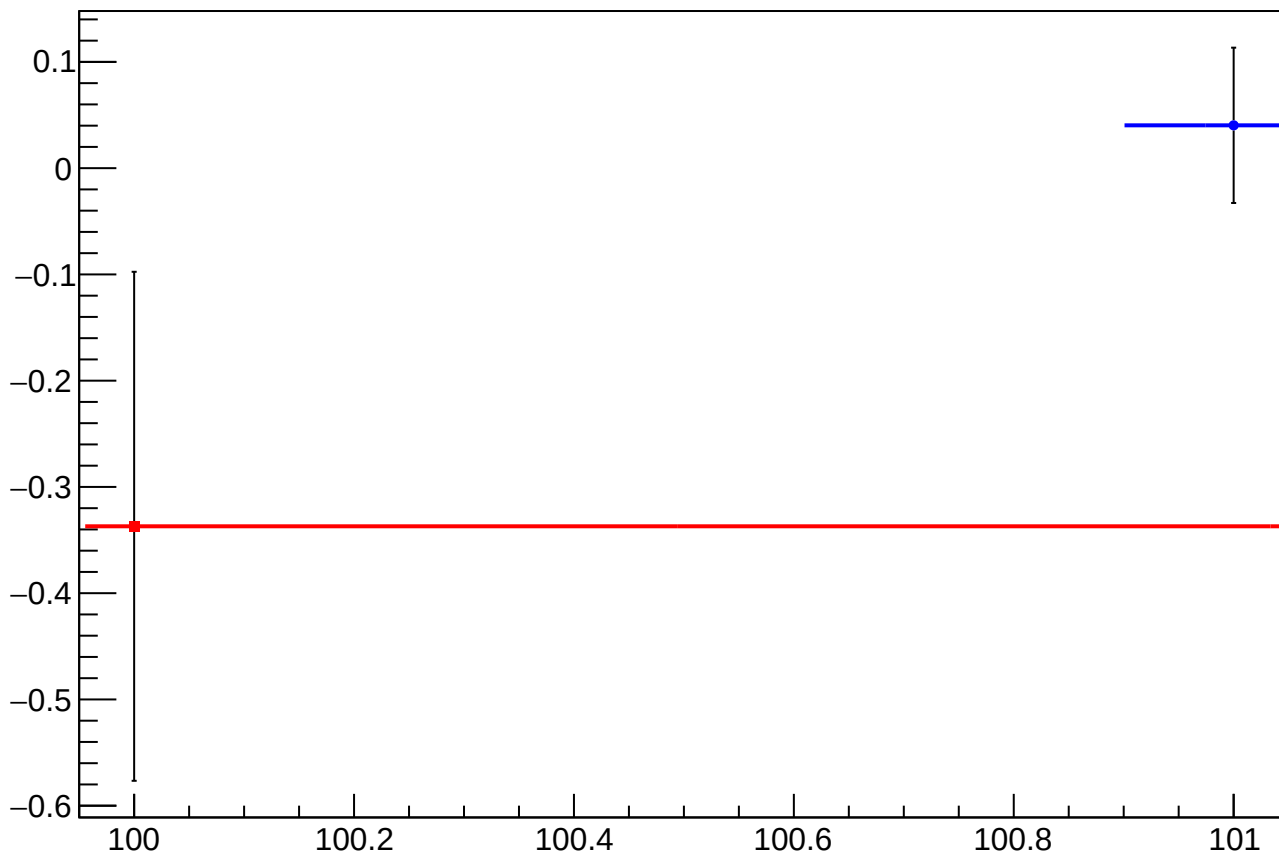
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 39895.8/1



asym\_usr\_overload\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.040 $\pm$ 0.073  $\chi^2$ /NDF: 0.0/0

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

Right Out: -0.337 $\pm$ 0.240  $\chi^2$ /NDF: 0.0/0

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

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

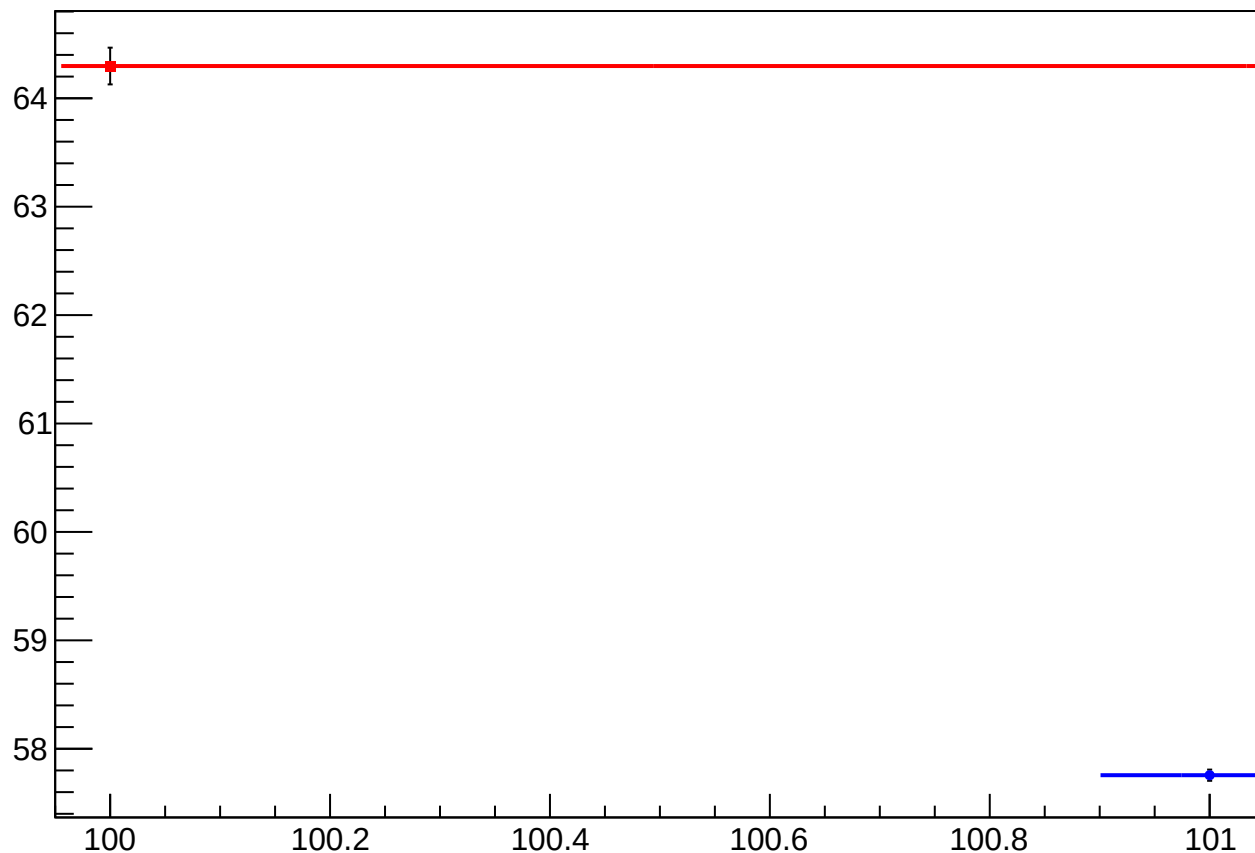
Right: 0.008 $\pm$ 0.070  $\chi^2$ /NDF: 2.3/1

In: 0.040 $\pm$ 0.073  $\chi^2$ /NDF:0.0/0

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

All: 0.008 $\pm$ 0.070  $\chi^2$ /NDF: 2.3/1

asym\_usr\_overload\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 57.756 $\pm$ 0.052  $\chi^2$ /NDF: 0.0/0

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

Right Out: 64.297 $\pm$ 0.169  $\chi^2$ /NDF: 0.0/0

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

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

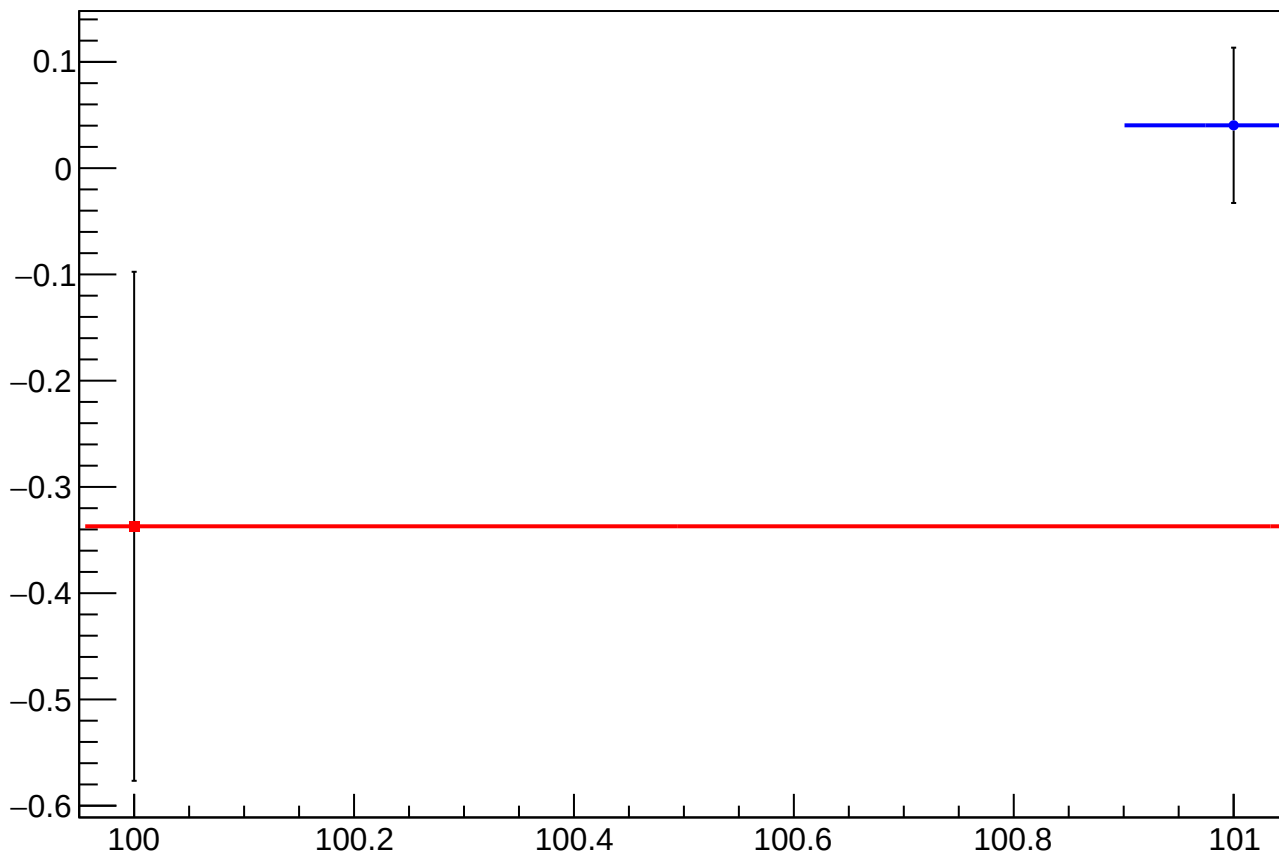
Right: 58.313 $\pm$ 0.049  $\chi^2$ /NDF: 1364.6/1

In: 57.756 $\pm$ 0.052  $\chi^2$ /NDF: 0.0/0

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

All: 58.313 $\pm$ 0.049  $\chi^2$ /NDF: 1364.6/1

asym\_usr\_overload\_cor\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.040 $\pm$ 0.073  $\chi^2$ /NDF: 0.0/0

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

Right Out: -0.337 $\pm$ 0.240  $\chi^2$ /NDF: 0.0/0

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

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

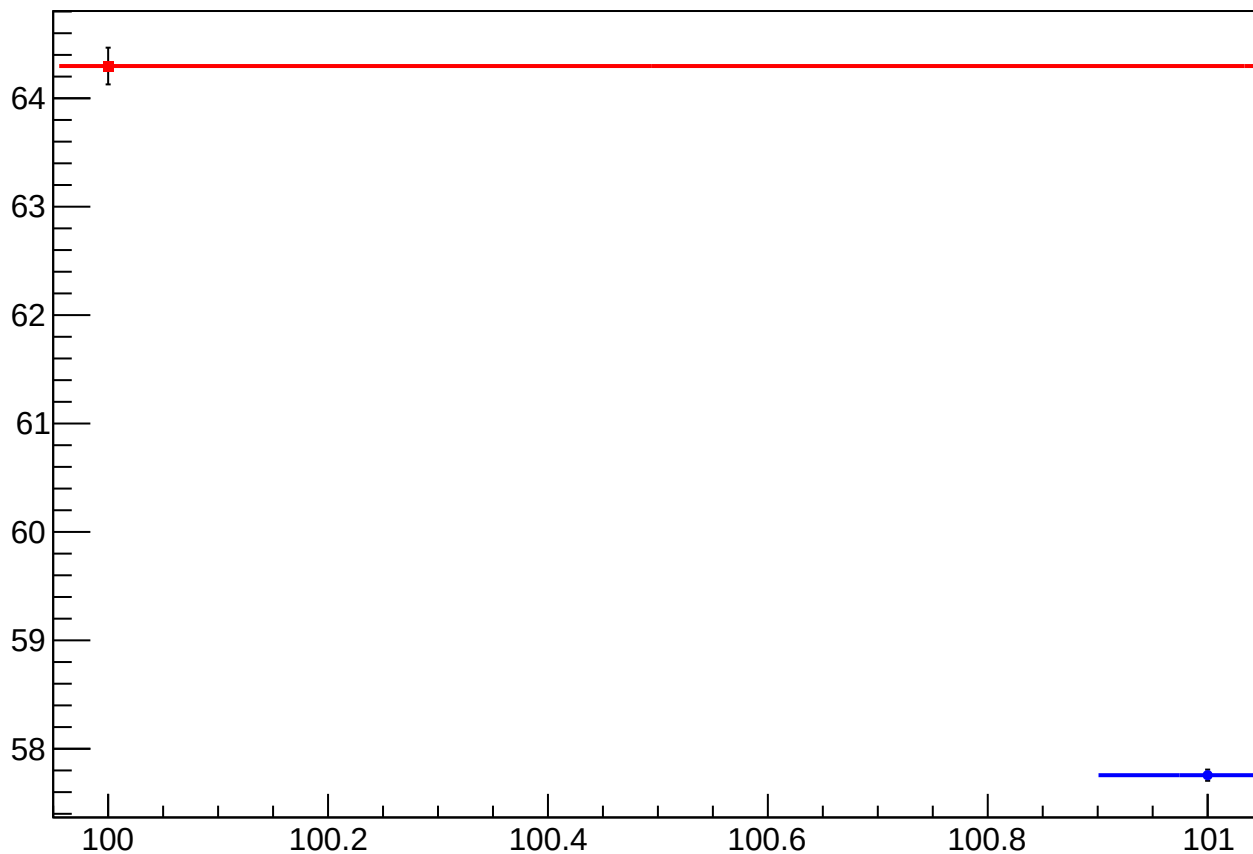
Right: 0.008 $\pm$ 0.070  $\chi^2$ /NDF: 2.3/1

In: 0.040 $\pm$ 0.073  $\chi^2$ /NDF:0.0/0

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

All: 0.008 $\pm$ 0.070  $\chi^2$ /NDF: 2.3/1

asym\_usr\_overload\_cor\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 57.756+/-0.052  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 64.297+/-0.169  $\chi^2/\text{NDF}$ : 0.0/0

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

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

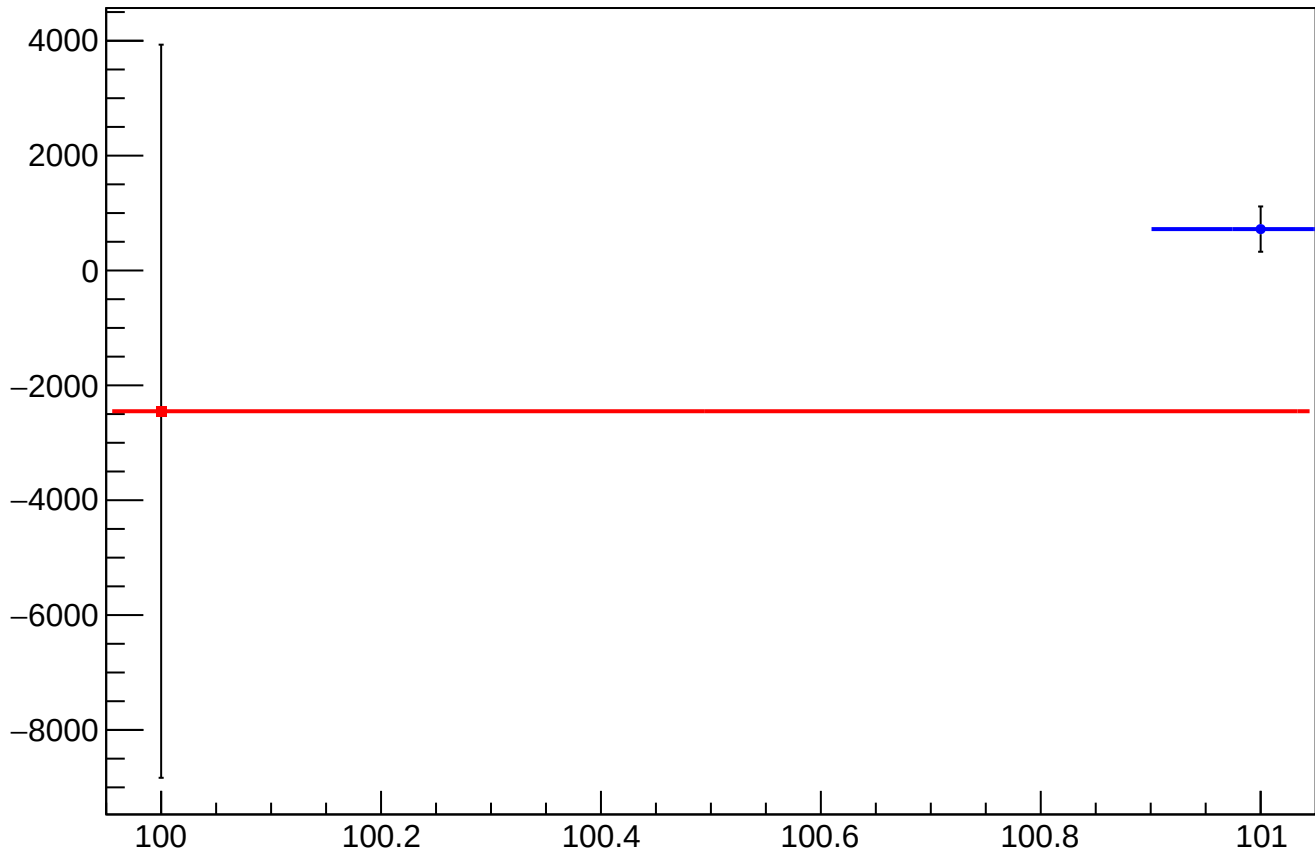
Right: 58.313+/-0.049  $\chi^2/\text{NDF}$ : 1364.6/1

In: 57.756+/-0.052  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 58.313+/-0.049  $\chi^2/\text{NDF}$ : 1364.6/1

# asym\_dsl\_mean vs Slug, Sign Corrected



Right In: 720.699+/-394.327  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -2450.691+/-6382.779  $\chi^2/\text{NDF}$ : 0.0/0

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

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

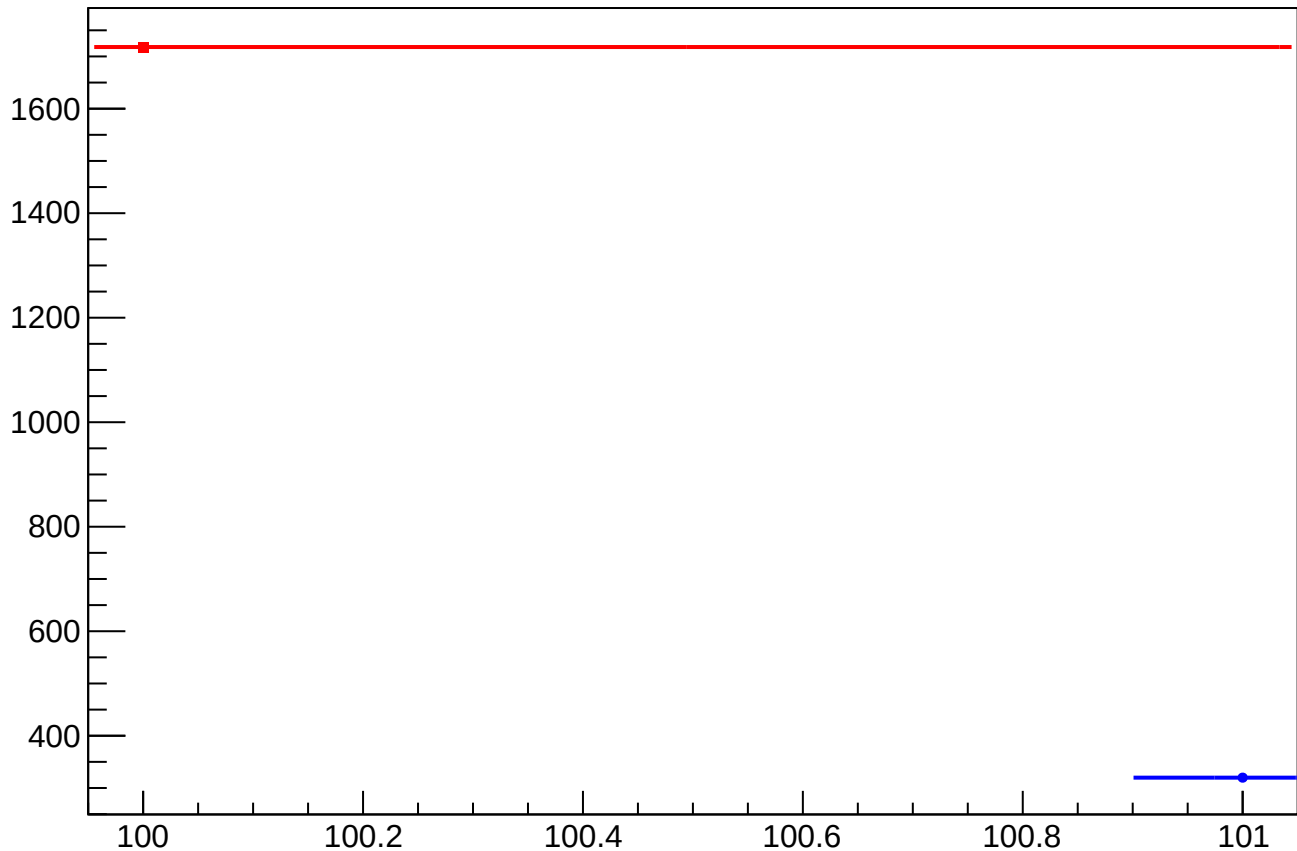
Right: 708.640+/-393.577  $\chi^2/\text{NDF}$ : 0.2/1

In: 720.699+/-394.327  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 708.640+/-393.577  $\chi^2/\text{NDF}$ : 0.2/1

# asym\_dsl\_rms vs Slug, Sign Corrected



Right In: 319.793 $\pm$ 0.279  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1718.002 $\pm$ 4.513  $\chi^2$ /NDF: 0.0/0

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

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

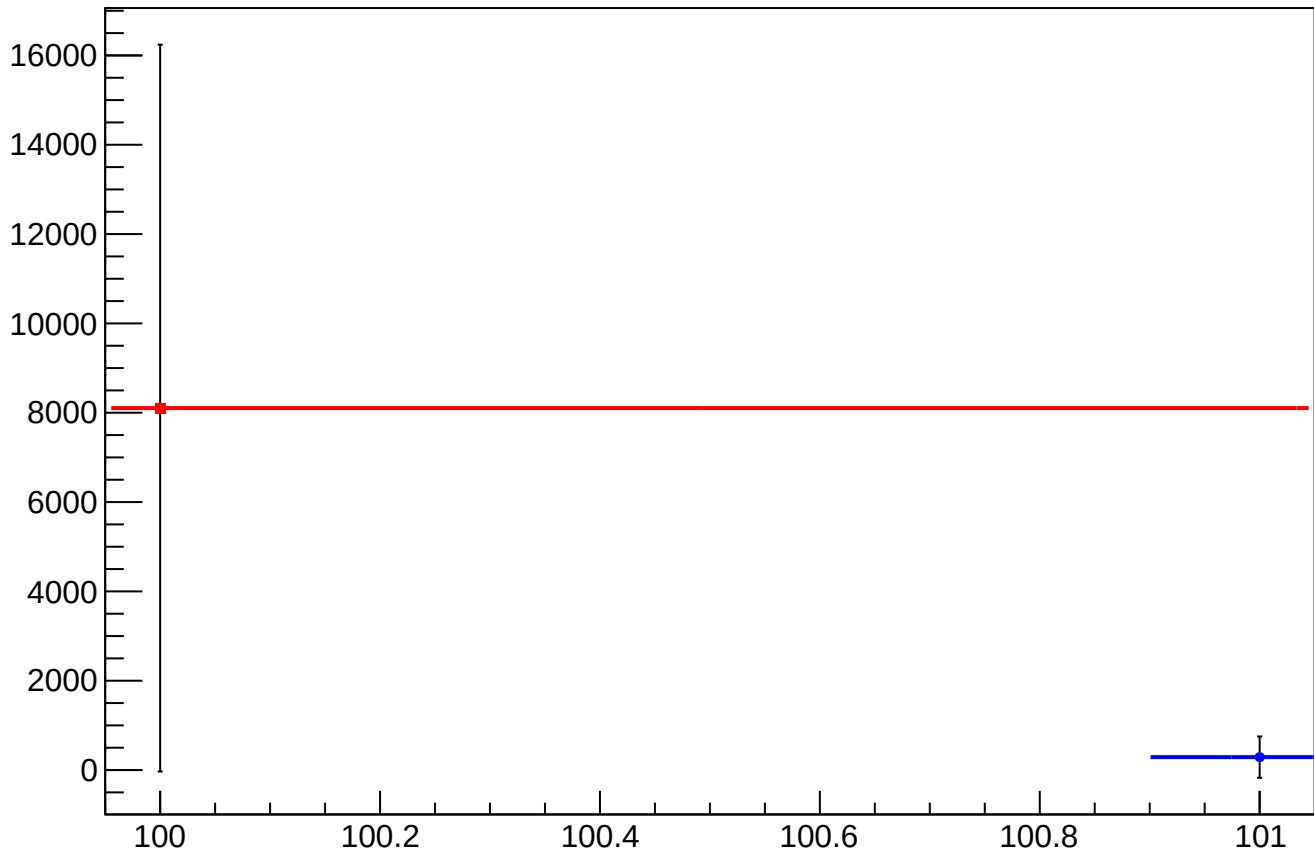
Right: 325.109 $\pm$ 0.278  $\chi^2$ /NDF: 95609.4/1

In: 319.793 $\pm$ 0.279  $\chi^2$ /NDF: 0.0/0

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

All: 325.109 $\pm$ 0.278  $\chi^2$ /NDF: 95609.4/1

# asym\_dsr\_mean vs Slug, Sign Corrected



Right In: 289.171+/-462.751  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 8104.590+/-8136.472  $\chi^2/\text{NDF}$ : 0.0/0

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

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

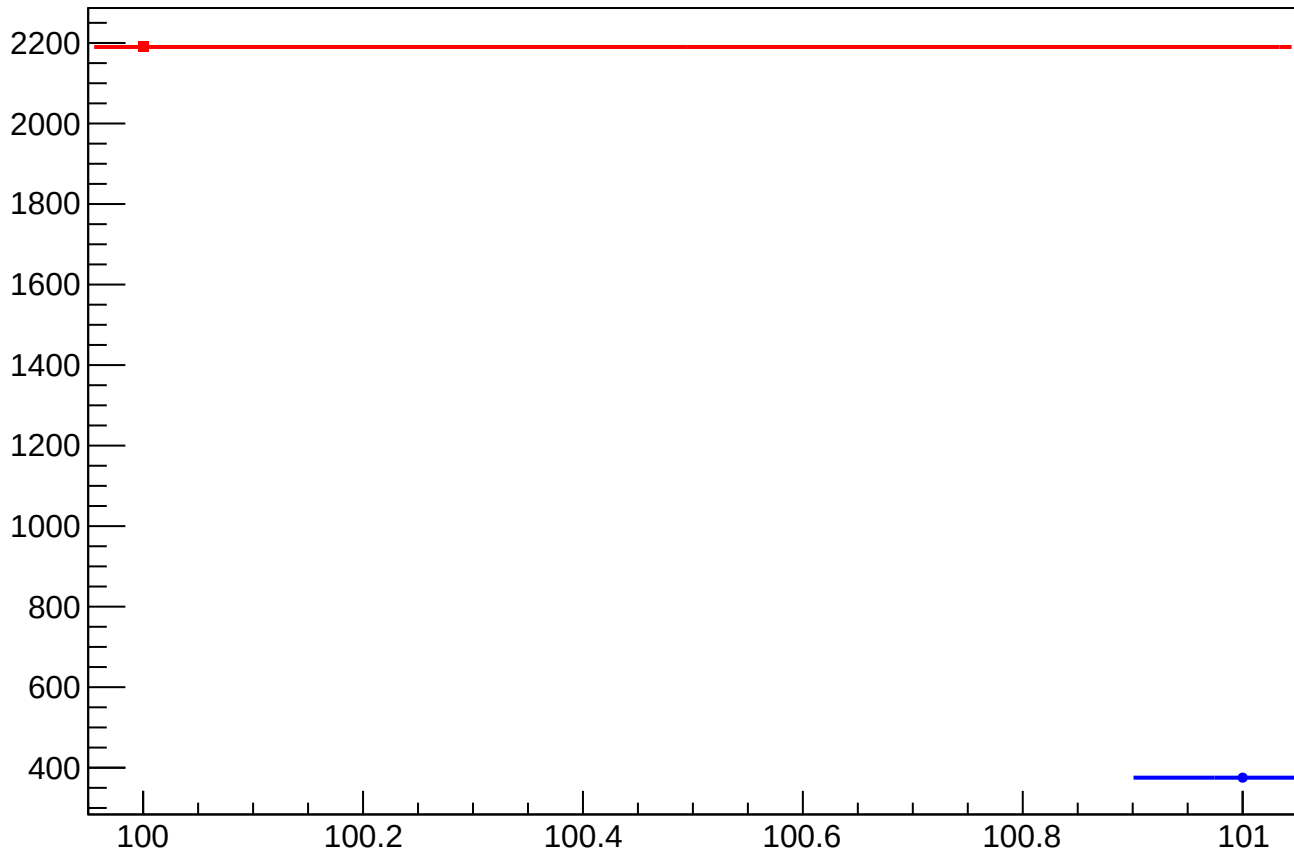
Right: 314.369+/-462.004  $\chi^2/\text{NDF}$ : 0.9/1

In: 289.171+/-462.751  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 314.369+/-462.004  $\chi^2/\text{NDF}$ : 0.9/1

# asym\_dsr\_rms vs Slug, Sign Corrected



Right In: 375.263+/-0.327  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 2190.046+/-5.753  $\chi^2/\text{NDF}$ : 0.0/0

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

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

Right: 381.114+/-0.327  $\chi^2/\text{NDF}$ : 99175.6/1

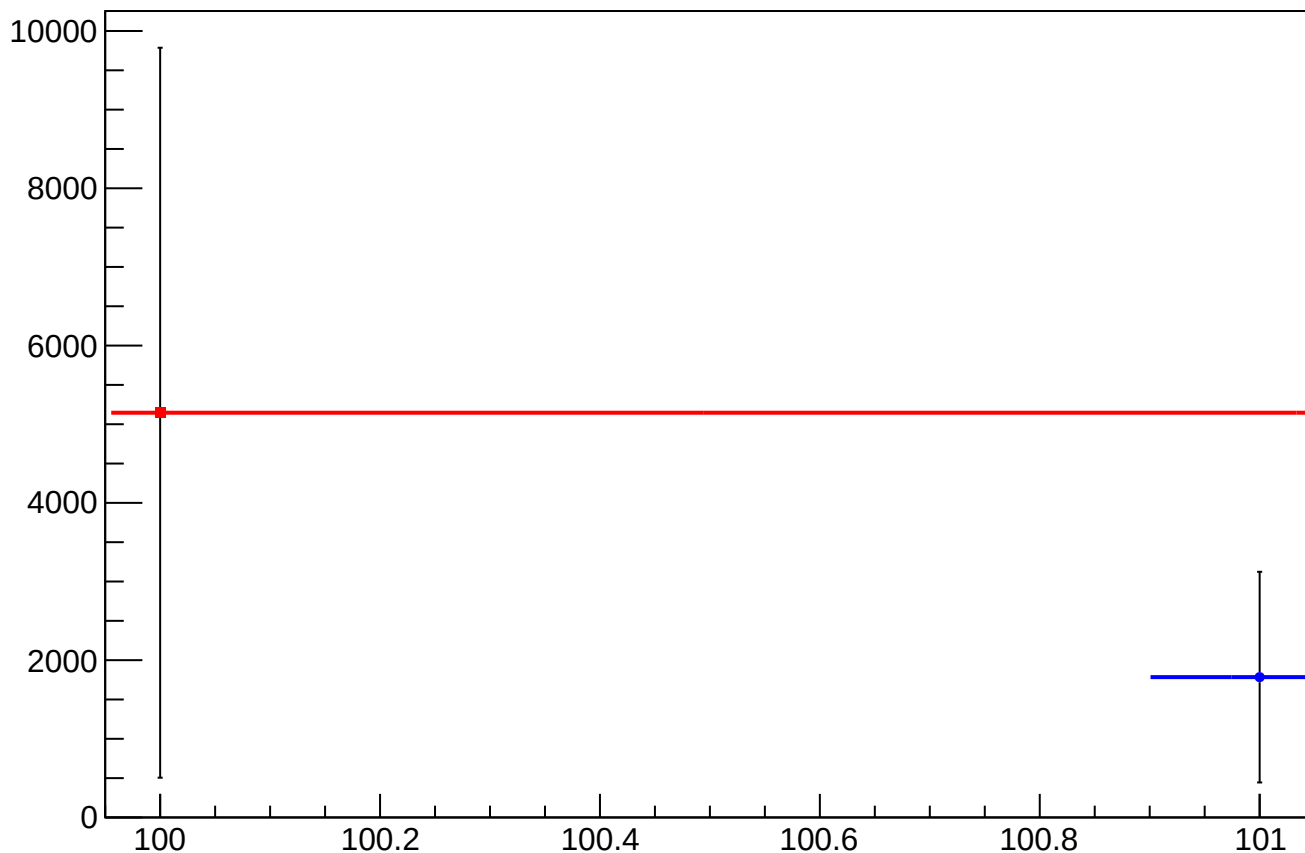
In: 375.263+/-0.327  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 381.114+/-0.327  $\chi^2/\text{NDF}$ : 99175.6/1



# asym\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: 1784.276+/-1339.280  $\chi^2$ /NDF: 0.0/0

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

Right Out: 5146.242+/-4640.678  $\chi^2$ /NDF: 0.0/0

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

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

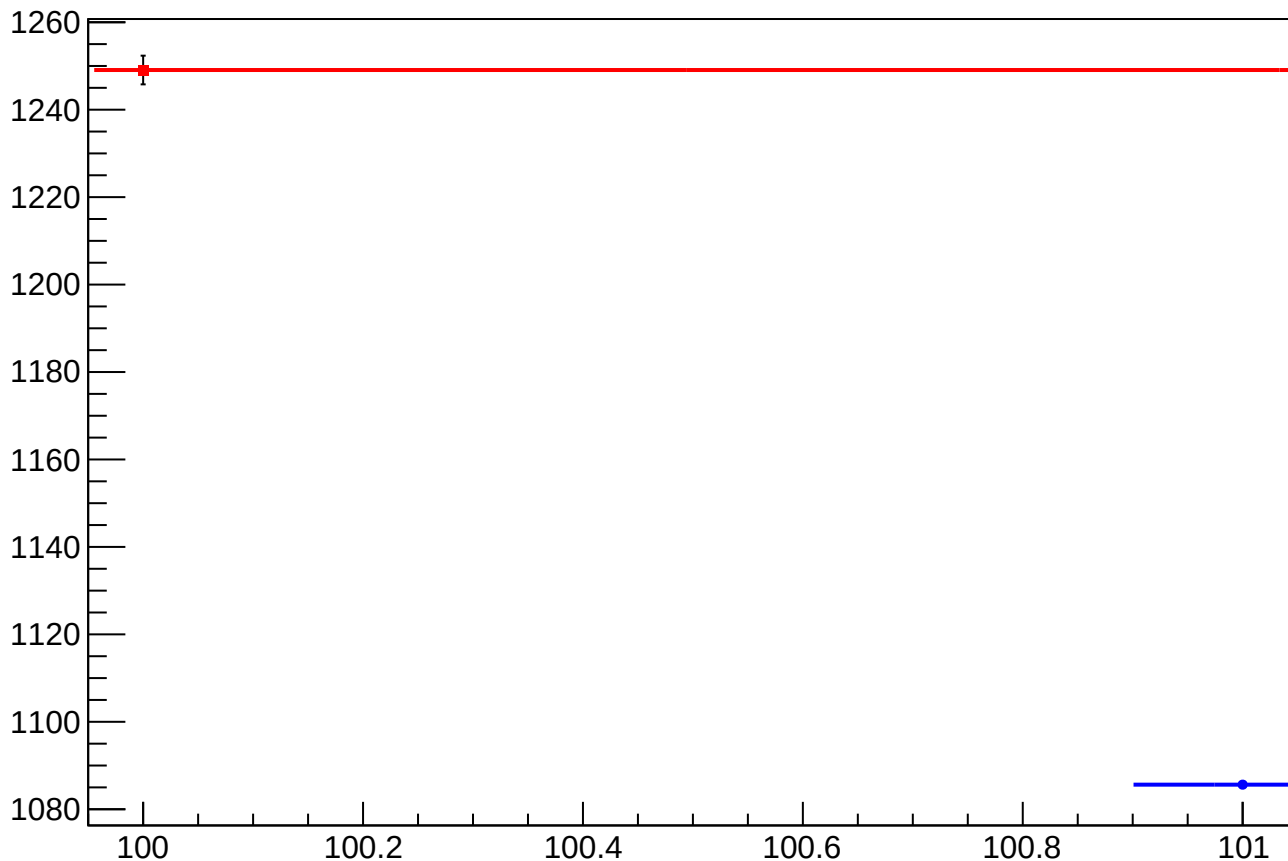
Right: 2042.758+/-1286.766  $\chi^2$ /NDF: 0.5/1

In: 1784.276+/-1339.280  $\chi^2$ /NDF:0.0/0

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

All: 2042.758+/-1286.766  $\chi^2$ /NDF: 0.5/1

# asym\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 1085.624+/-0.947  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1249.074+/-3.281  $\chi^2/\text{NDF}$ : 0.0/0

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

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

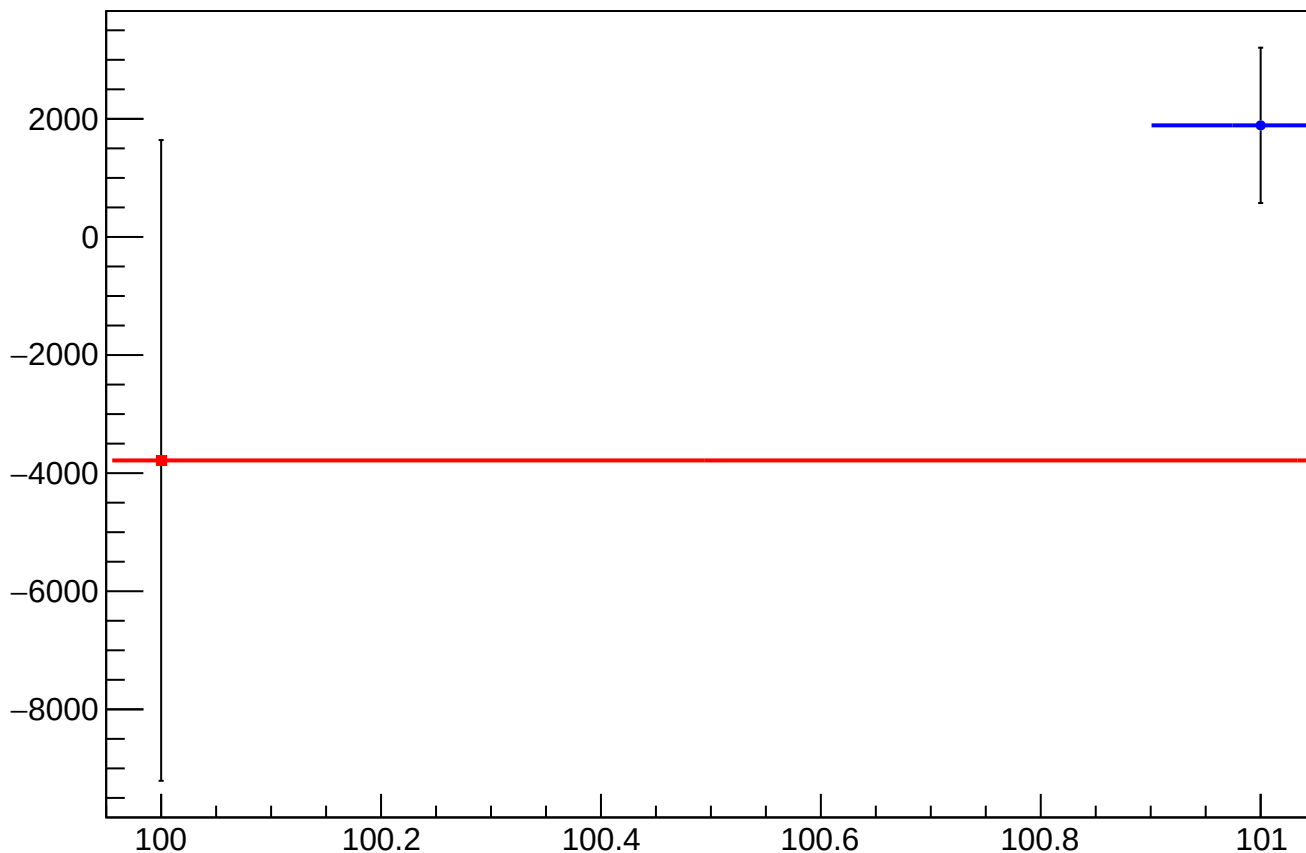
Right: 1098.191+/-0.910  $\chi^2/\text{NDF}$ : 2290.3/1

In: 1085.624+/-0.947  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1098.191+/-0.910  $\chi^2/\text{NDF}$ : 2290.3/1

# asym\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 1889.963+/-1315.639  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -3784.582+/-5425.529  $\chi^2/\text{NDF}$ : 0.0/0

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

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

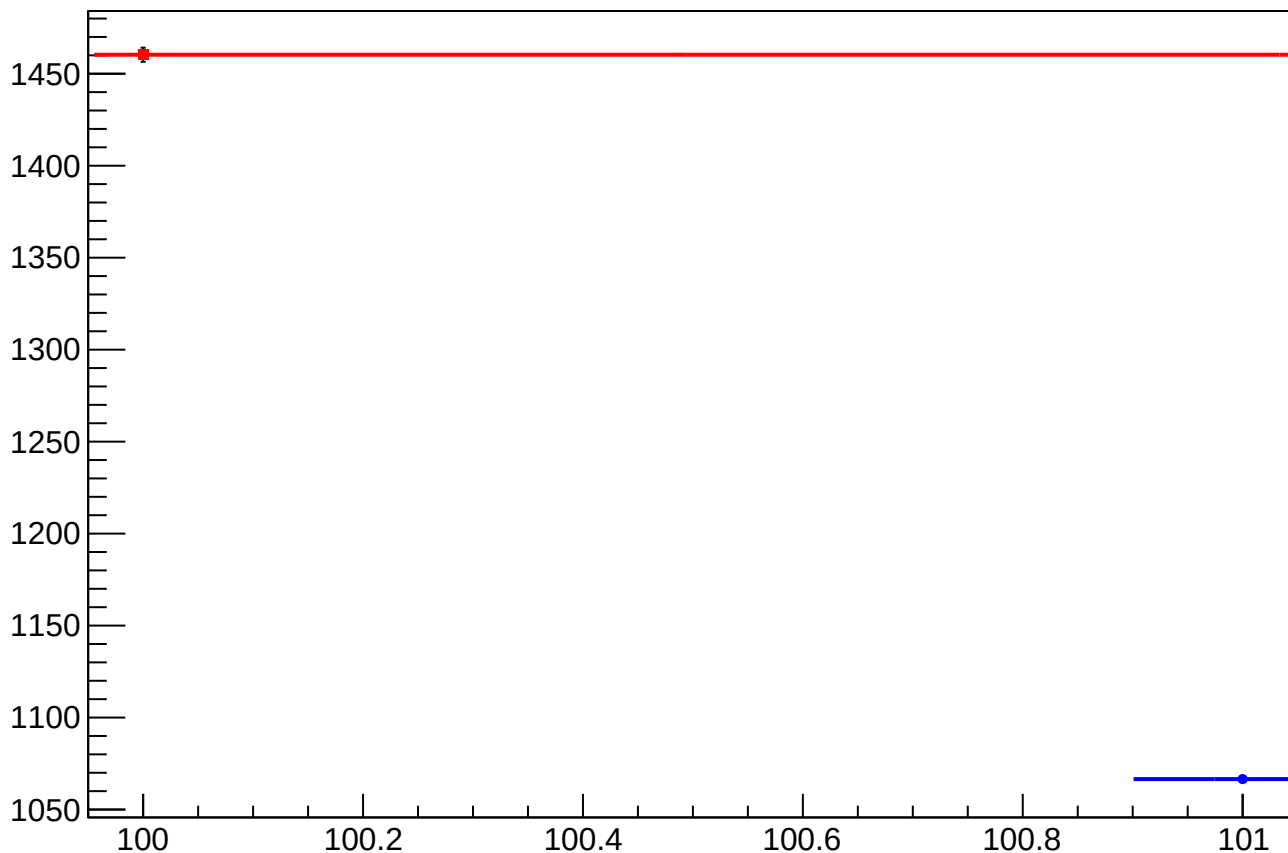
Right: 1574.822+/-1278.585  $\chi^2/\text{NDF}$ : 1.0/1

In: 1889.963+/-1315.639  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1574.822+/-1278.585  $\chi^2/\text{NDF}$ : 1.0/1

# asym\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 1066.556 $\pm$ 0.930  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1460.333 $\pm$ 3.836  $\chi^2$ /NDF: 0.0/0

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

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

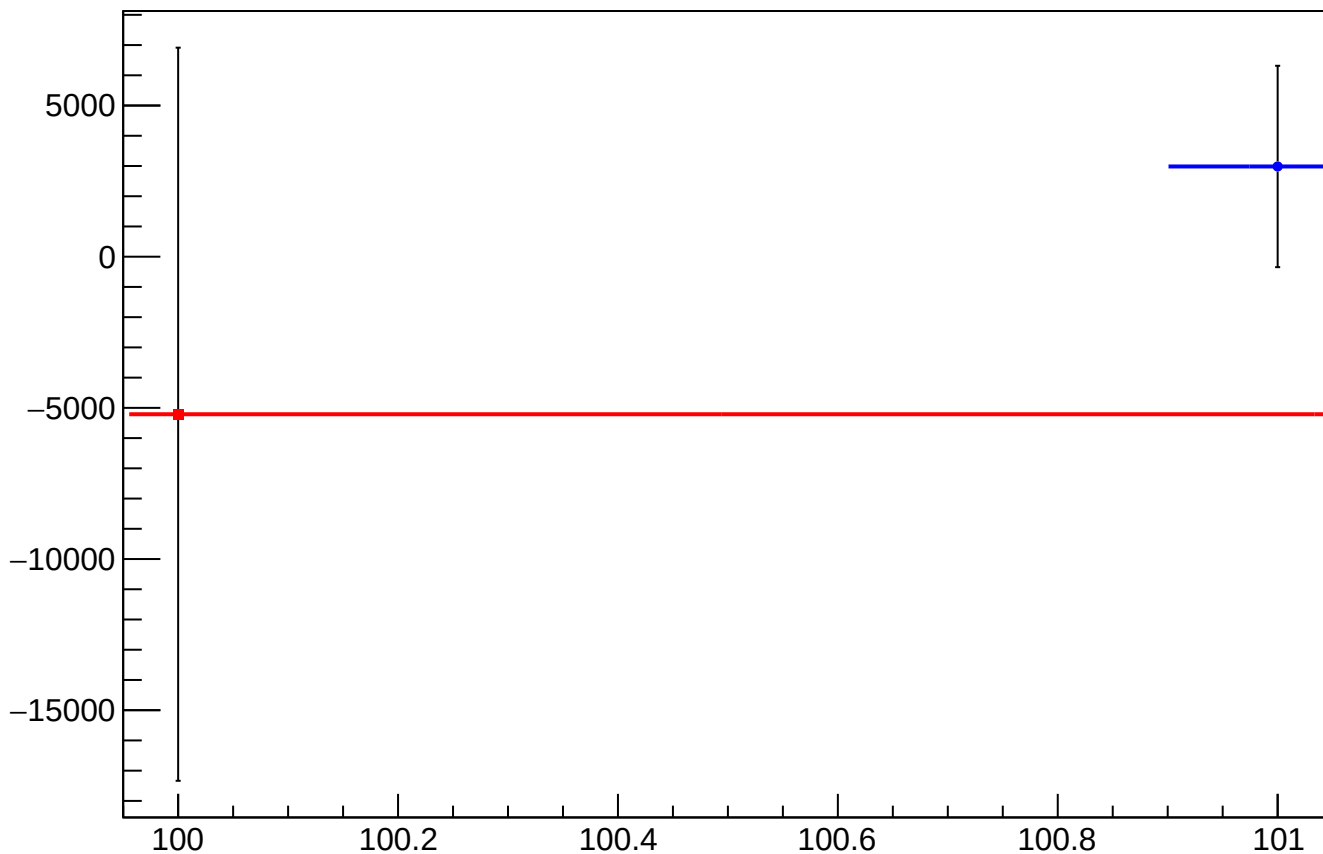
Right: 1088.425 $\pm$ 0.904  $\chi^2$ /NDF: 9950.2/1

In: 1066.556 $\pm$ 0.930  $\chi^2$ /NDF: 0.0/0

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

All: 1088.425 $\pm$ 0.904  $\chi^2$ /NDF: 9950.2/1

reg\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2984.376+/-3330.306  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -5210.658+/-12124.481  $\chi^2/\text{NDF}$ : 0.0/0

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

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

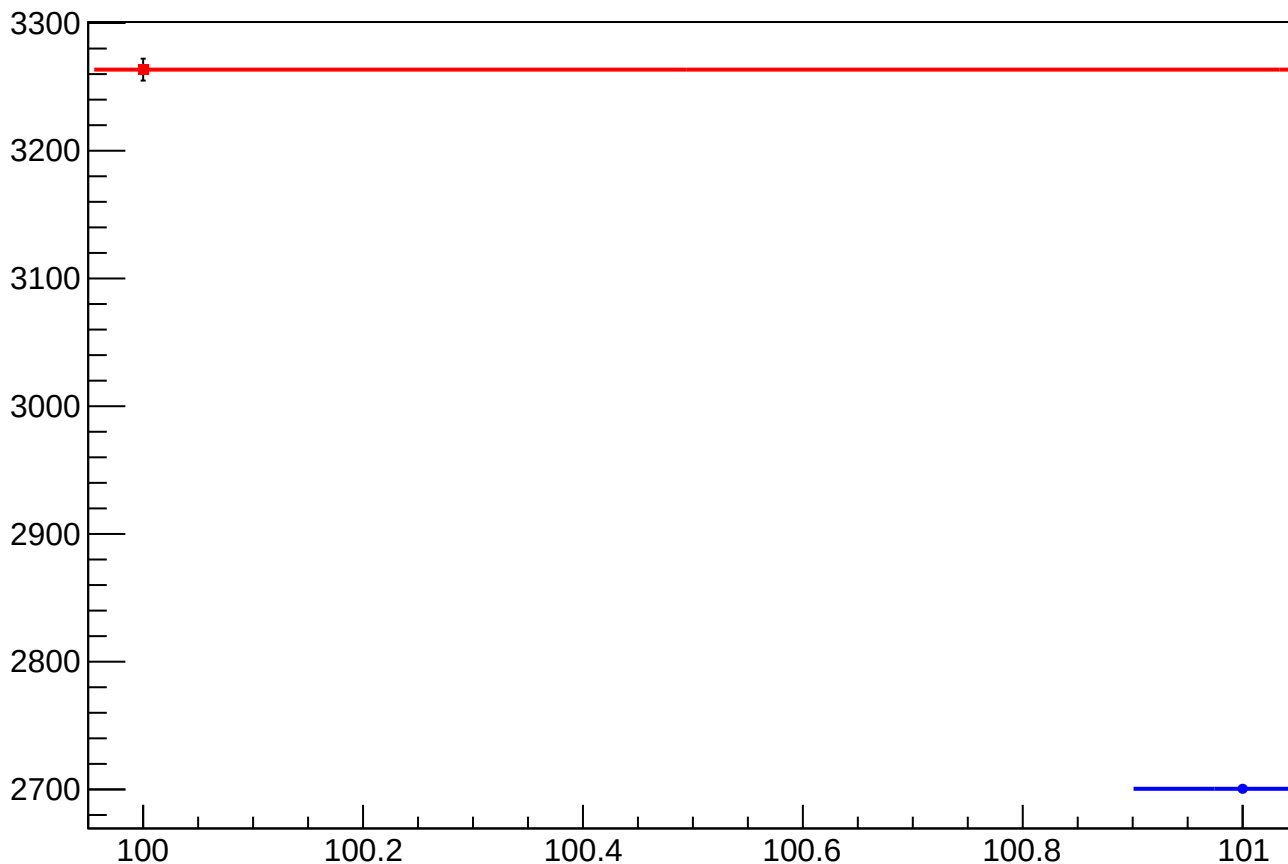
Right: 2409.461+/-3211.365  $\chi^2/\text{NDF}$ : 0.4/1

In: 2984.376+/-3330.306  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2409.461+/-3211.365  $\chi^2/\text{NDF}$ : 0.4/1

# reg\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2700.504 $\pm$ 2.355  $\chi^2$ /NDF: 0.0/0

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

Right Out: 3263.503 $\pm$ 8.573  $\chi^2$ /NDF: 0.0/0

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

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

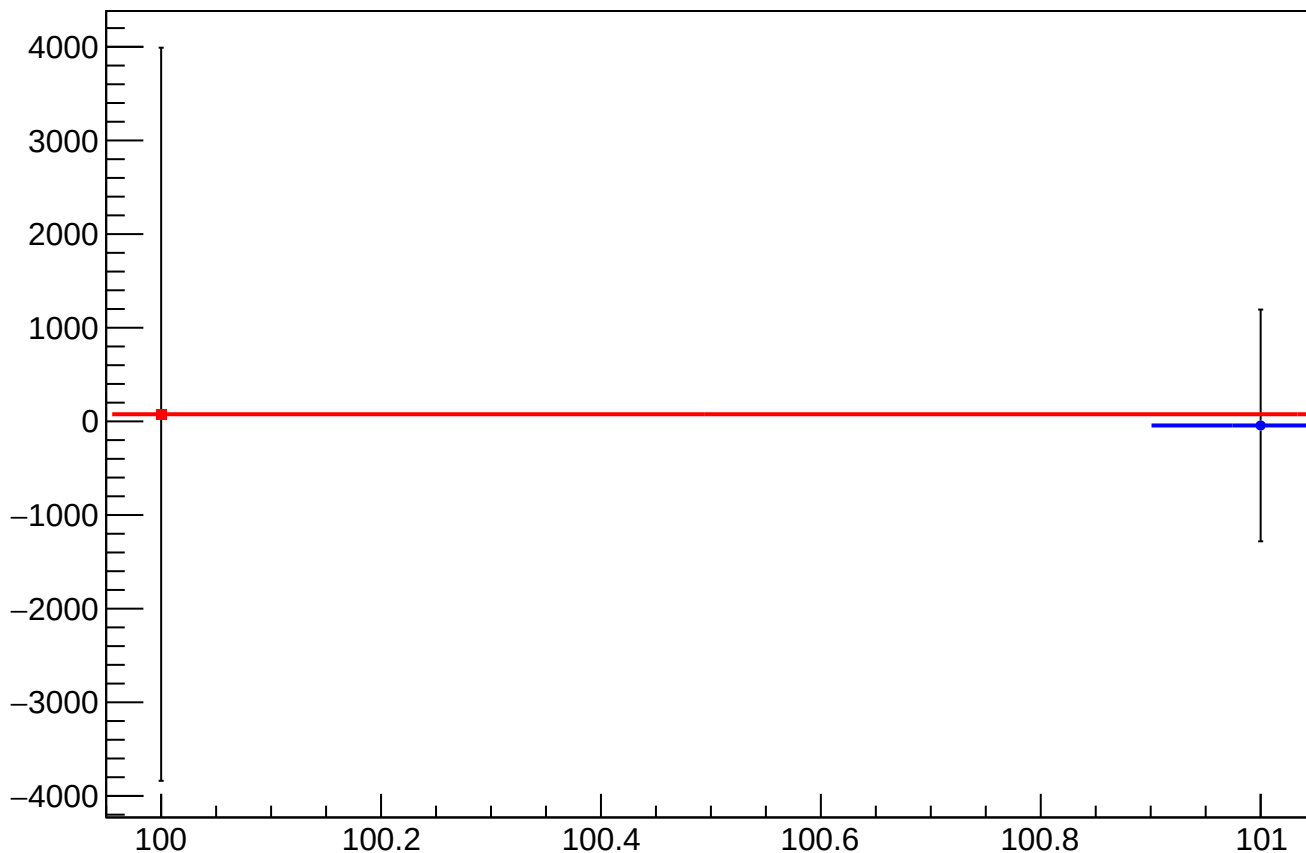
Right: 2740.001 $\pm$ 2.271  $\chi^2$ /NDF: 4009.9/1

In: 2700.504 $\pm$ 2.355  $\chi^2$ /NDF: 0.0/0

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

All: 2740.001 $\pm$ 2.271  $\chi^2$ /NDF: 4009.9/1

asym\_atl1\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -43.466 $\pm$ 1237.455  $\chi^2$ /NDF: 0.0/0

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

Right Out: 76.334 $\pm$ 3914.585  $\chi^2$ /NDF: 0.0/0

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

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

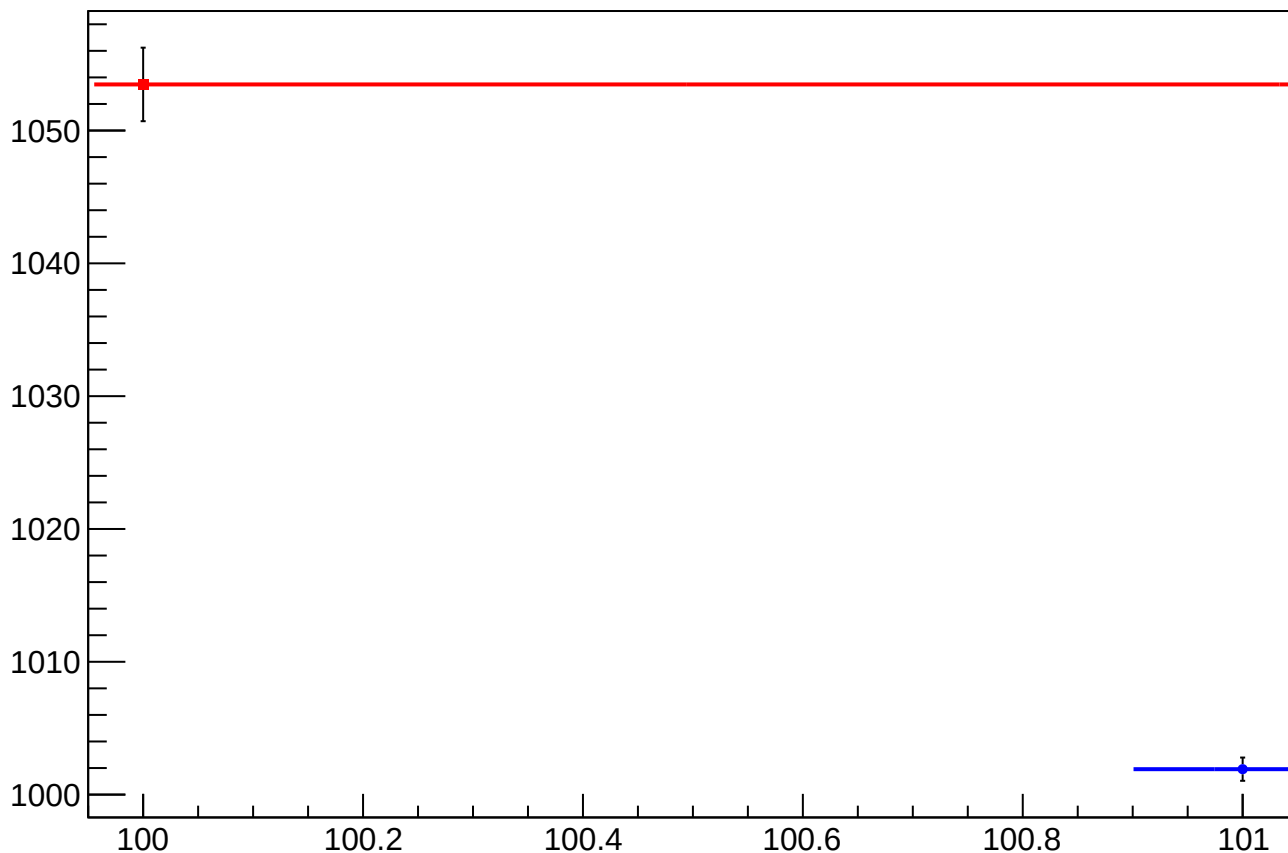
Right: -32.582 $\pm$ 1179.905  $\chi^2$ /NDF: 0.0/1

In: -43.466 $\pm$ 1237.455  $\chi^2$ /NDF: 0.0/0

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

All: -32.582 $\pm$ 1179.905  $\chi^2$ /NDF: 0.0/1

asym\_atl1\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1001.915 $\pm$ 0.875  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1053.471 $\pm$ 2.768  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1006.598 $\pm$ 0.834  $\chi^2/\text{NDF}$ : 315.4/1

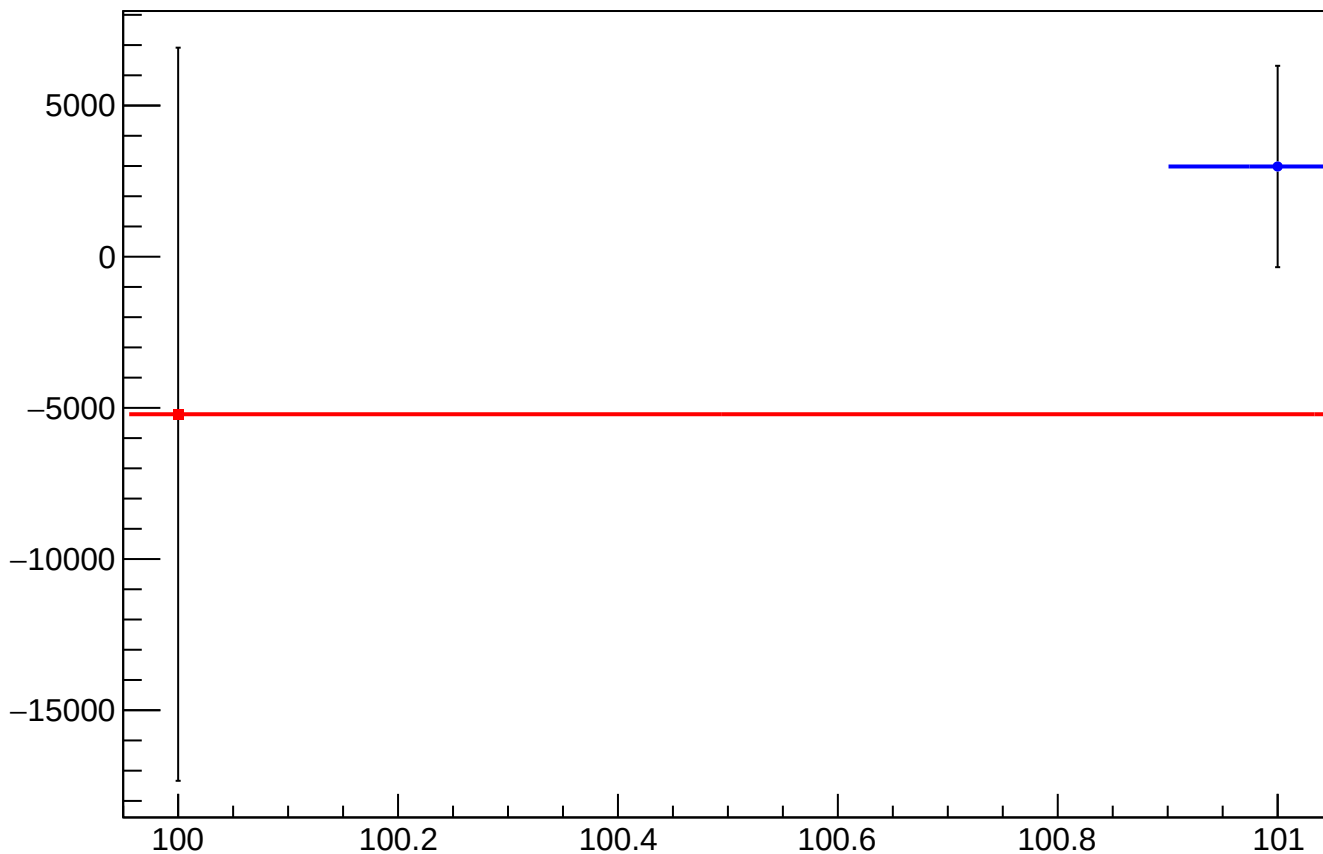
In: 1001.915 $\pm$ 0.875  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1006.598 $\pm$ 0.834  $\chi^2/\text{NDF}$ : 315.4/1



cor\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2984.214+/-3330.306  $\chi^2$ /NDF: 0.0/0

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

Right Out: -5210.284+/-12124.481  $\chi^2$ /NDF: 0.0/0

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

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

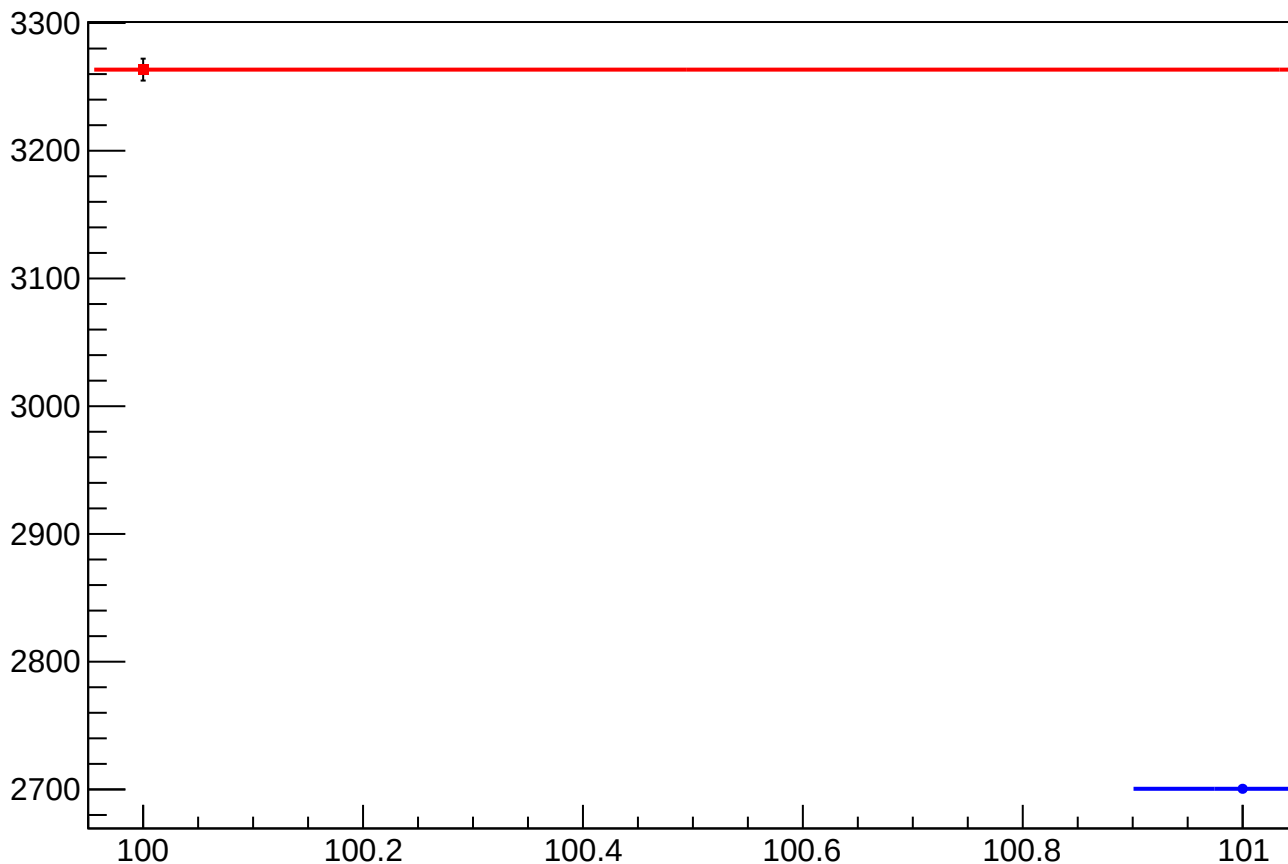
Right: 2409.337+/-3211.365  $\chi^2$ /NDF: 0.4/1

In: 2984.214+/-3330.306  $\chi^2$ /NDF:0.0/0

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

All: 2409.337+/-3211.365  $\chi^2$ /NDF: 0.4/1

# cor\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2700.504 $\pm$ 2.355  $\chi^2$ /NDF: 0.0/0

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

Right Out: 3263.503 $\pm$ 8.573  $\chi^2$ /NDF: 0.0/0

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

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

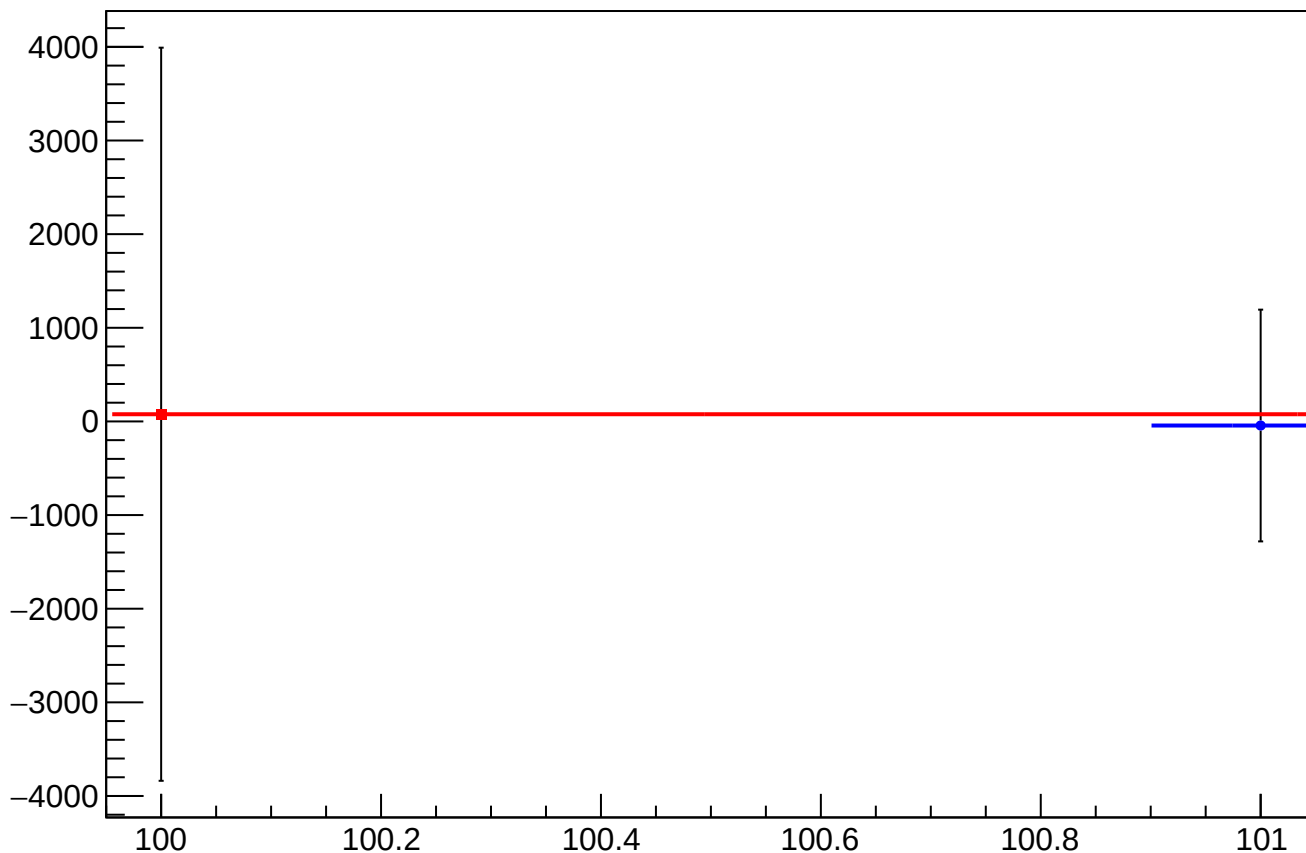
Right: 2740.001 $\pm$ 2.271  $\chi^2$ /NDF: 4009.9/1

In: 2700.504 $\pm$ 2.355  $\chi^2$ /NDF: 0.0/0

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

All: 2740.001 $\pm$ 2.271  $\chi^2$ /NDF: 4009.9/1

asym\_atl1\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -43.734 $\pm$ 1237.444  $\chi^2$ /NDF: 0.0/0

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

Right Out: 76.807 $\pm$ 3914.636  $\chi^2$ /NDF: 0.0/0

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

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

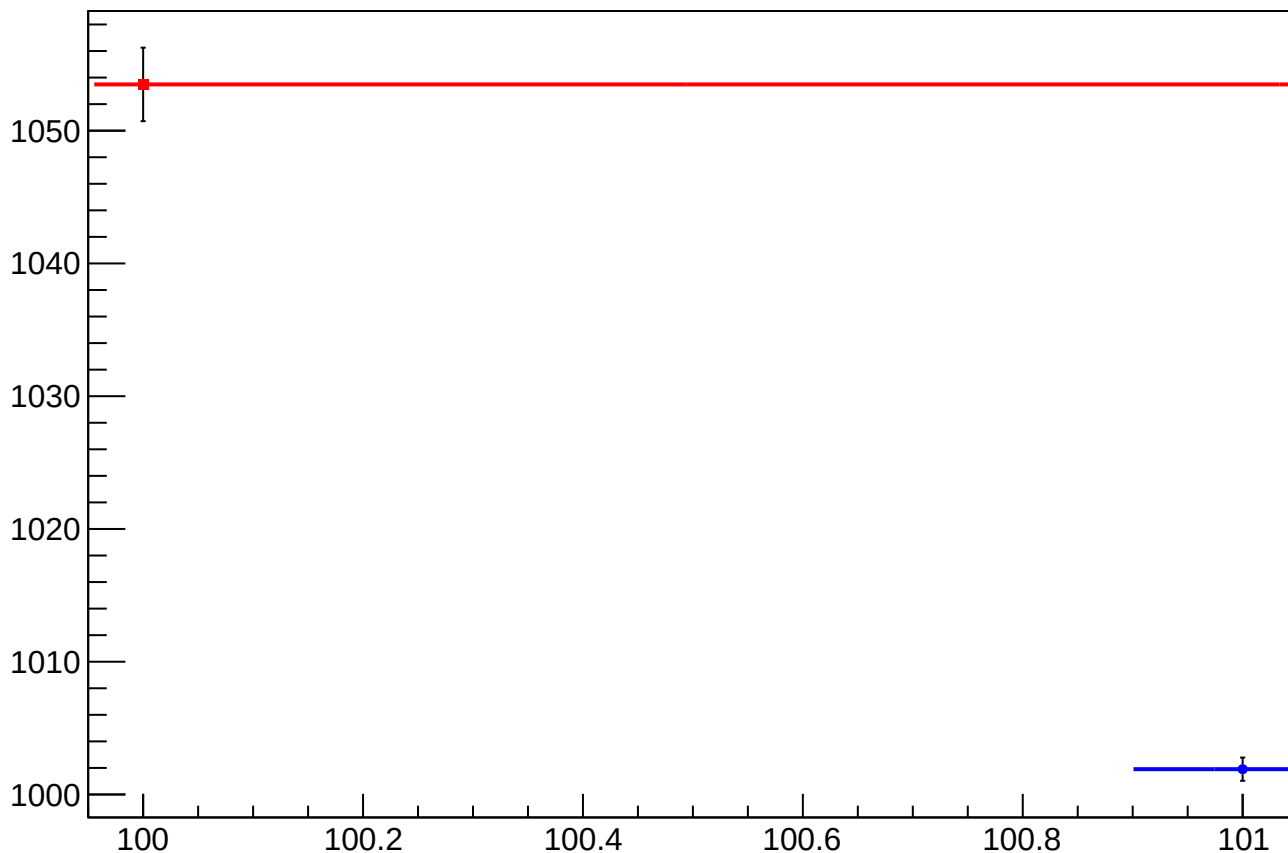
Right: -32.783 $\pm$ 1179.898  $\chi^2$ /NDF: 0.0/1

In: -43.734 $\pm$ 1237.444  $\chi^2$ /NDF: 0.0/0

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

All: -32.783 $\pm$ 1179.898  $\chi^2$ /NDF: 0.0/1

asym\_atl1\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1001.906 $\pm$ 0.875  $\chi^2$ /NDF: 0.0/0

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

Right Out: 1053.485 $\pm$ 2.768  $\chi^2$ /NDF: 0.0/0

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

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

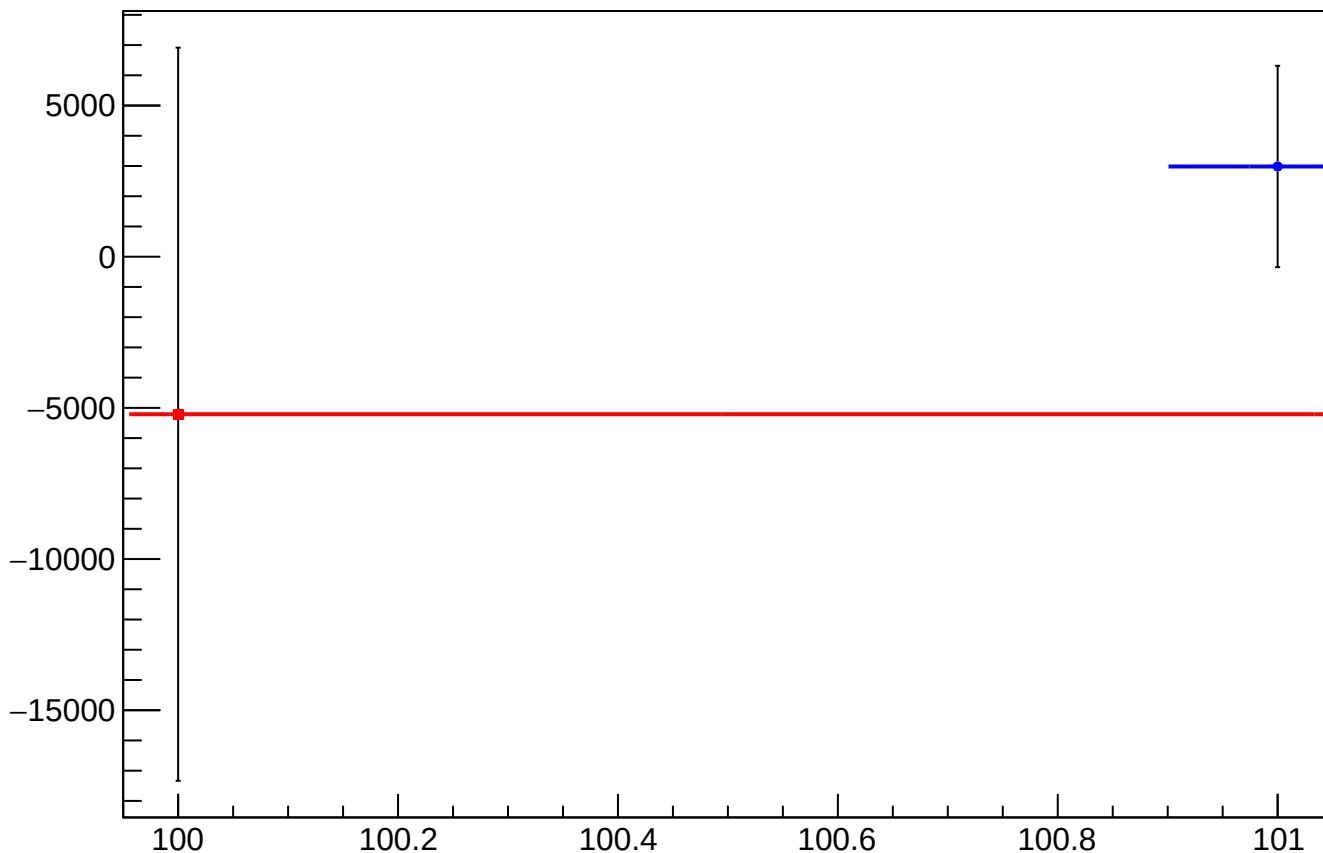
Right: 1006.591 $\pm$ 0.834  $\chi^2$ /NDF: 315.7/1

In: 1001.906 $\pm$ 0.875  $\chi^2$ /NDF: 0.0/0

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

All: 1006.591 $\pm$ 0.834  $\chi^2$ /NDF: 315.7/1

eigen\_cor\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2984.214+/-3330.306  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -5210.284+/-12124.481  $\chi^2/\text{NDF}$ : 0.0/0

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

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

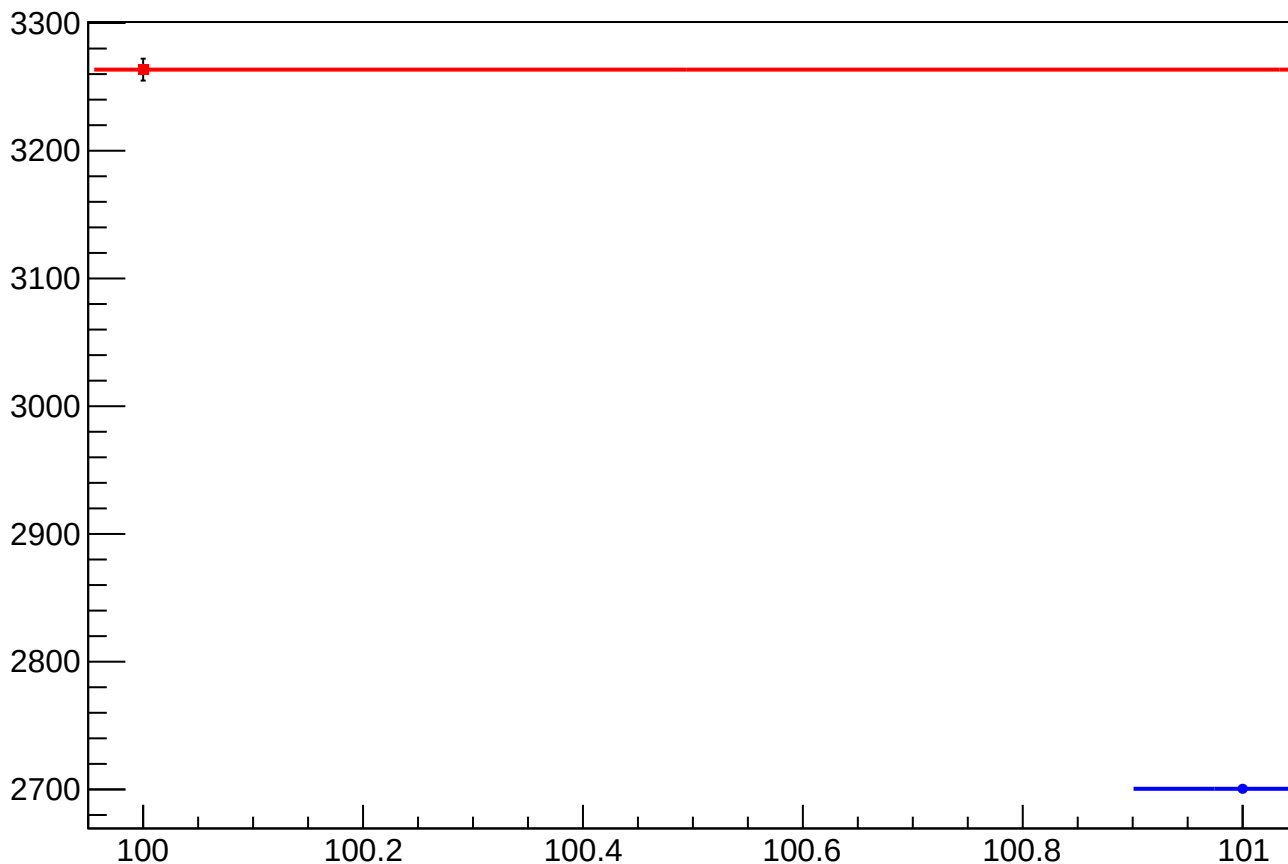
Right: 2409.337+/-3211.365  $\chi^2/\text{NDF}$ : 0.4/1

In: 2984.214+/-3330.306  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2409.337+/-3211.365  $\chi^2/\text{NDF}$ : 0.4/1

eigen\_cor\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2700.504 $\pm$ 2.355  $\chi^2$ /NDF: 0.0/0

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

Right Out: 3263.503 $\pm$ 8.573  $\chi^2$ /NDF: 0.0/0

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

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

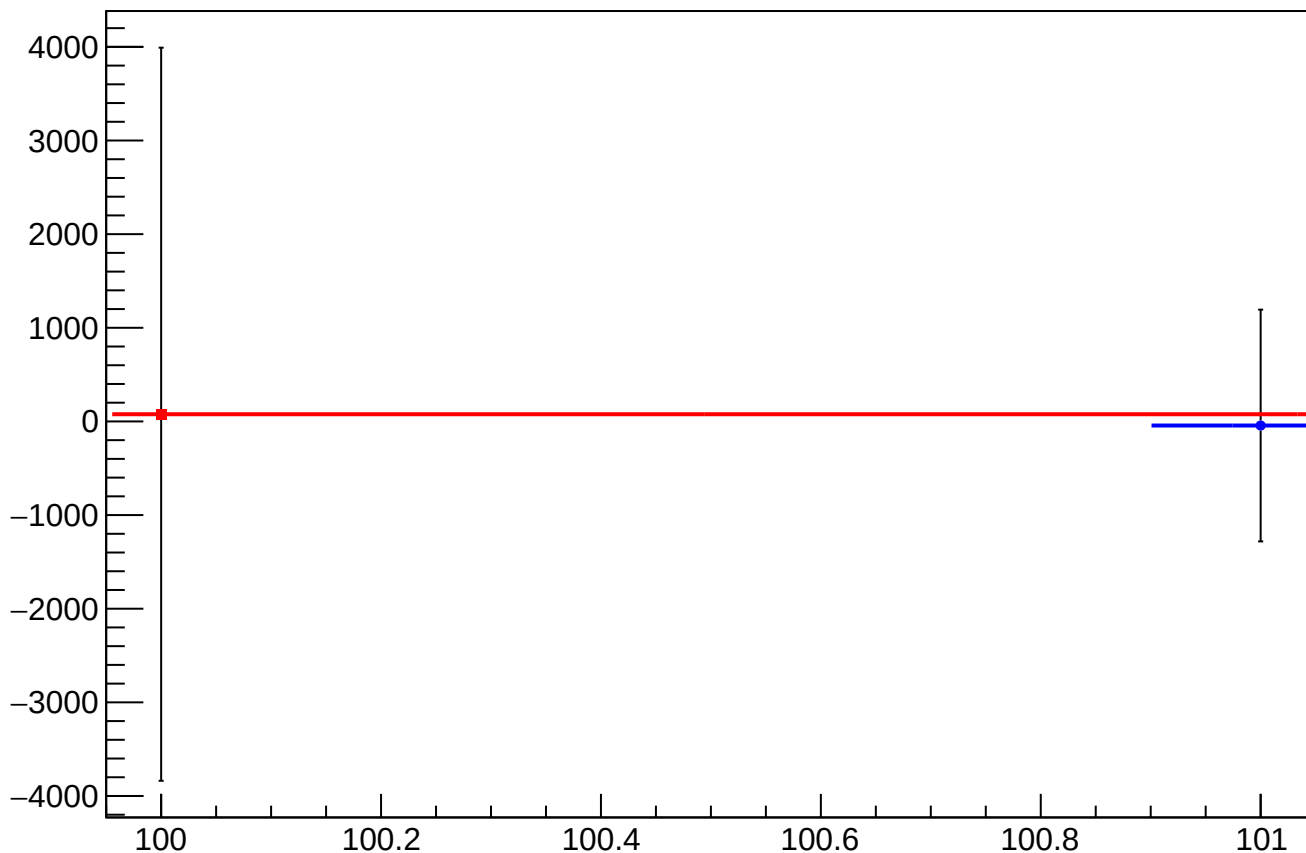
Right: 2740.001 $\pm$ 2.271  $\chi^2$ /NDF: 4009.9/1

In: 2700.504 $\pm$ 2.355  $\chi^2$ /NDF: 0.0/0

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

All: 2740.001 $\pm$ 2.271  $\chi^2$ /NDF: 4009.9/1

asym\_atl1\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -43.734 $\pm$ 1237.444  $\chi^2$ /NDF: 0.0/0

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

Right Out: 76.807 $\pm$ 3914.636  $\chi^2$ /NDF: 0.0/0

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

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

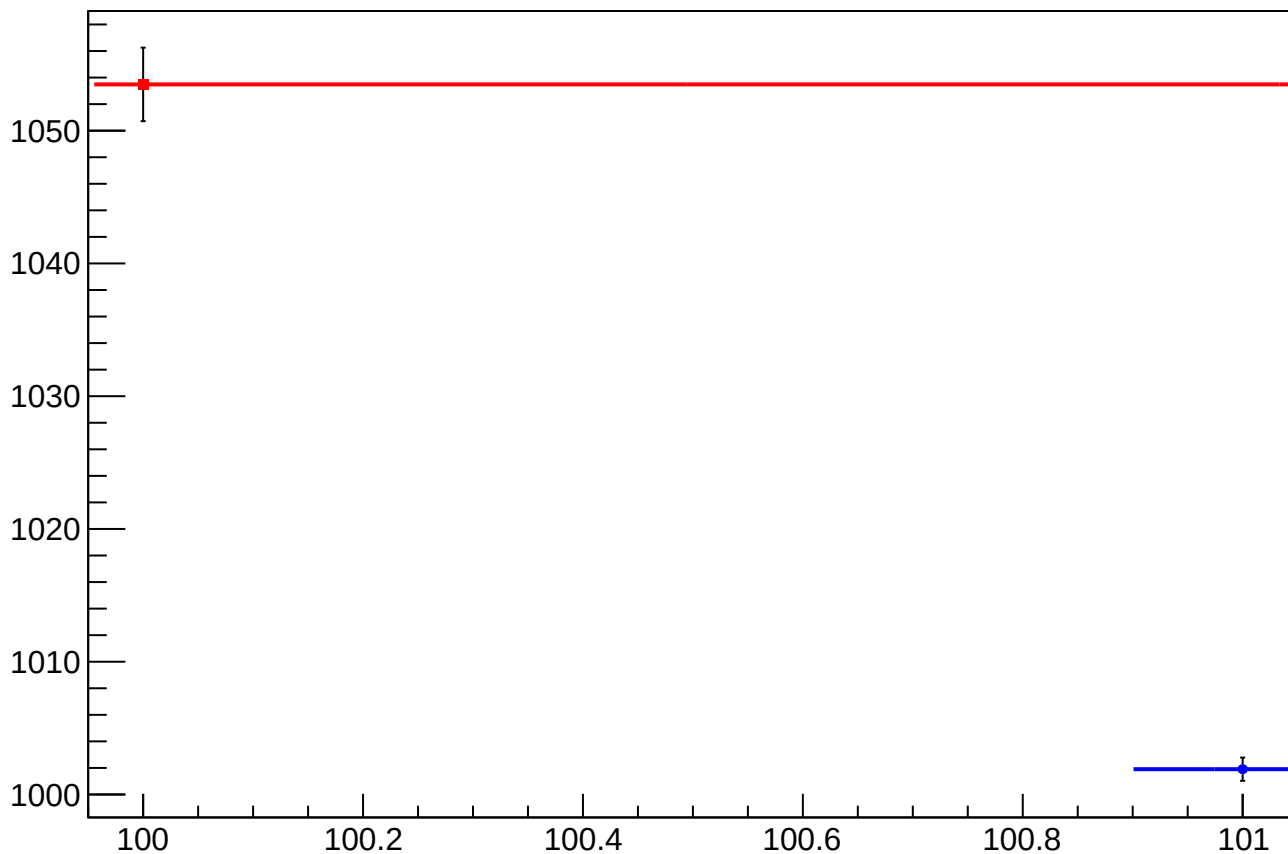
Right: -32.783 $\pm$ 1179.898  $\chi^2$ /NDF: 0.0/1

In: -43.734 $\pm$ 1237.444  $\chi^2$ /NDF: 0.0/0

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

All: -32.783 $\pm$ 1179.898  $\chi^2$ /NDF: 0.0/1

asym\_atl1\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1001.906 $\pm$ 0.875  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 1053.485 $\pm$ 2.768  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1006.591 $\pm$ 0.834  $\chi^2/\text{NDF}$ : 315.7/1

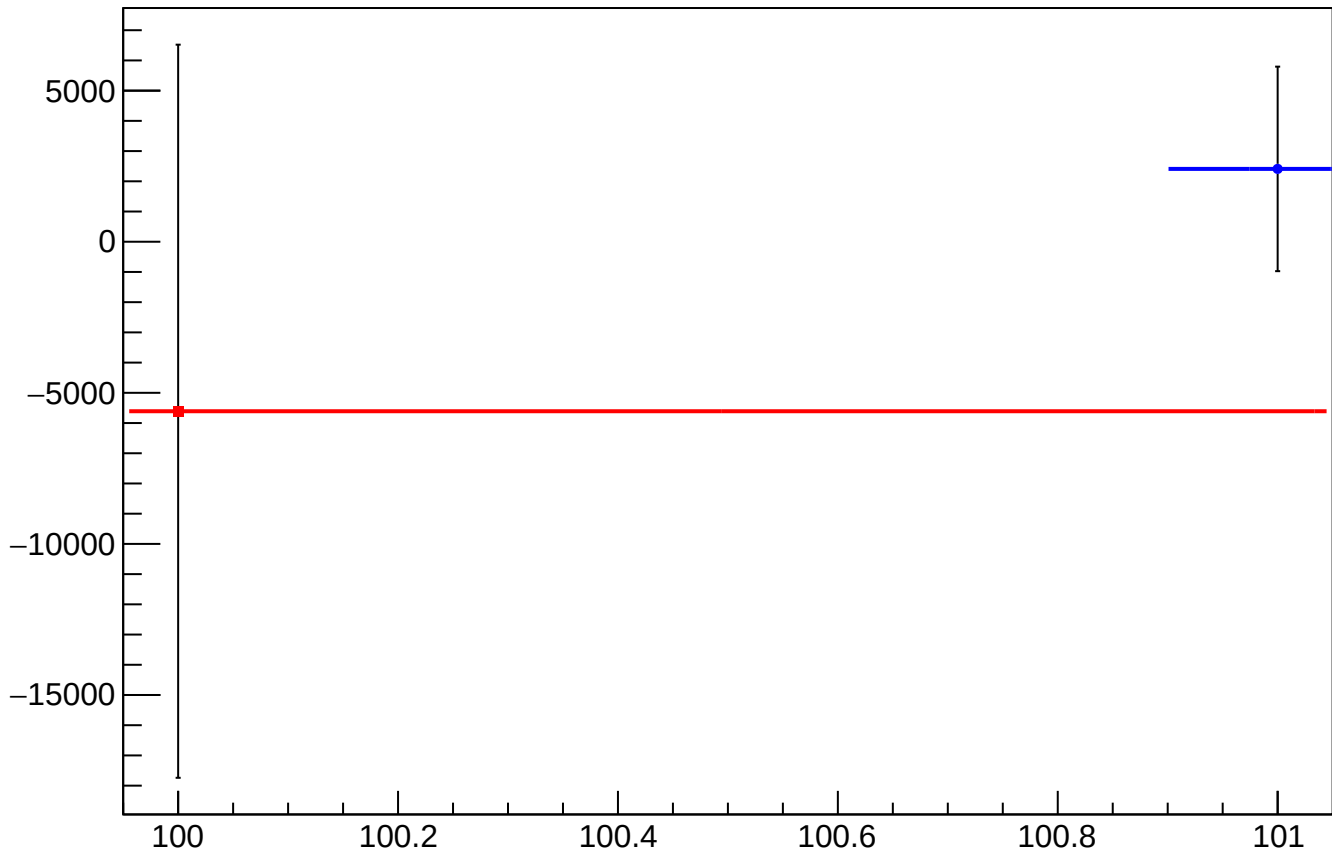
In: 1001.906 $\pm$ 0.875  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1006.591 $\pm$ 0.834  $\chi^2/\text{NDF}$ : 315.7/1



# dit\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2410.334+/-3384.181  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -5609.392+/-12130.989  $\chi^2/\text{NDF}$ : 0.0/0

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

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

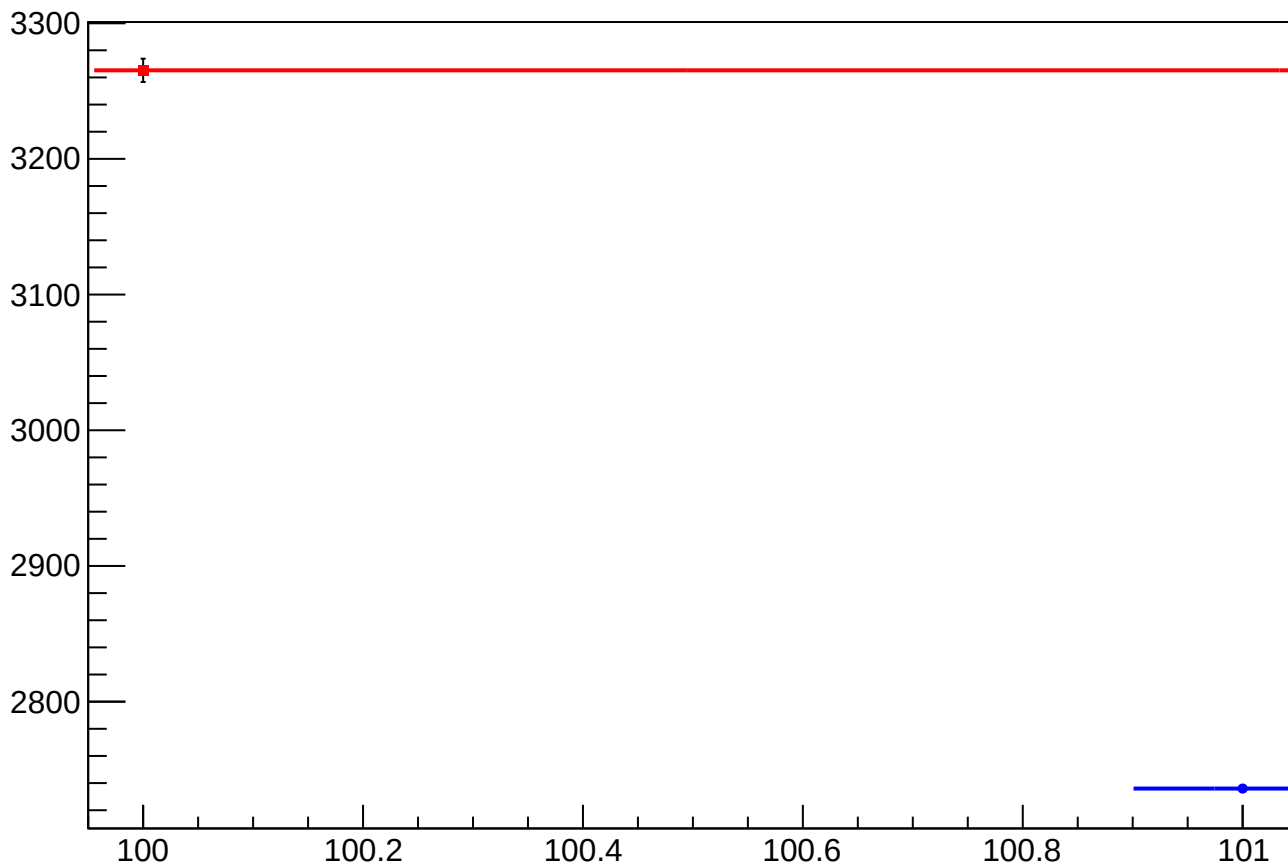
Right: 1831.270+/-3259.715  $\chi^2/\text{NDF}$ : 0.4/1

In: 2410.334+/-3384.181  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1831.270+/-3259.715  $\chi^2/\text{NDF}$ : 0.4/1

# dit\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2735.973 $\pm$ 2.393  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: 3265.255 $\pm$ 8.578  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

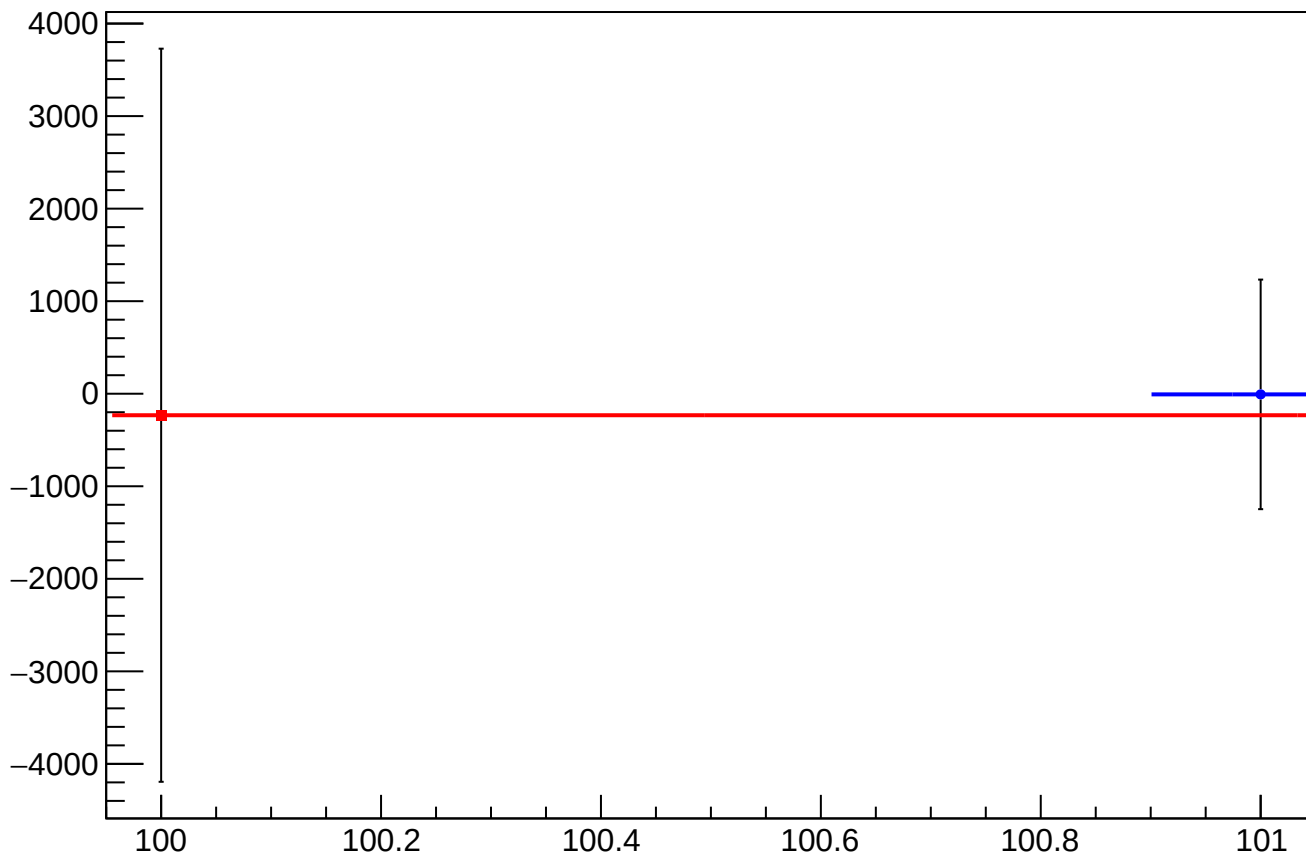
Right: 2774.189 $\pm$ 2.305  $\chi^2/\text{NDF}$ : 3532.4/1

In: 2735.973 $\pm$ 2.393  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2774.189 $\pm$ 2.305  $\chi^2/\text{NDF}$ : 3532.4/1

asym\_atl1\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -7.122+/-1240.398  $\chi^2/\text{NDF}$ : 0.0/0

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

Right Out: -232.477+/-3961.145  $\chi^2/\text{NDF}$ : 0.0/0

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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

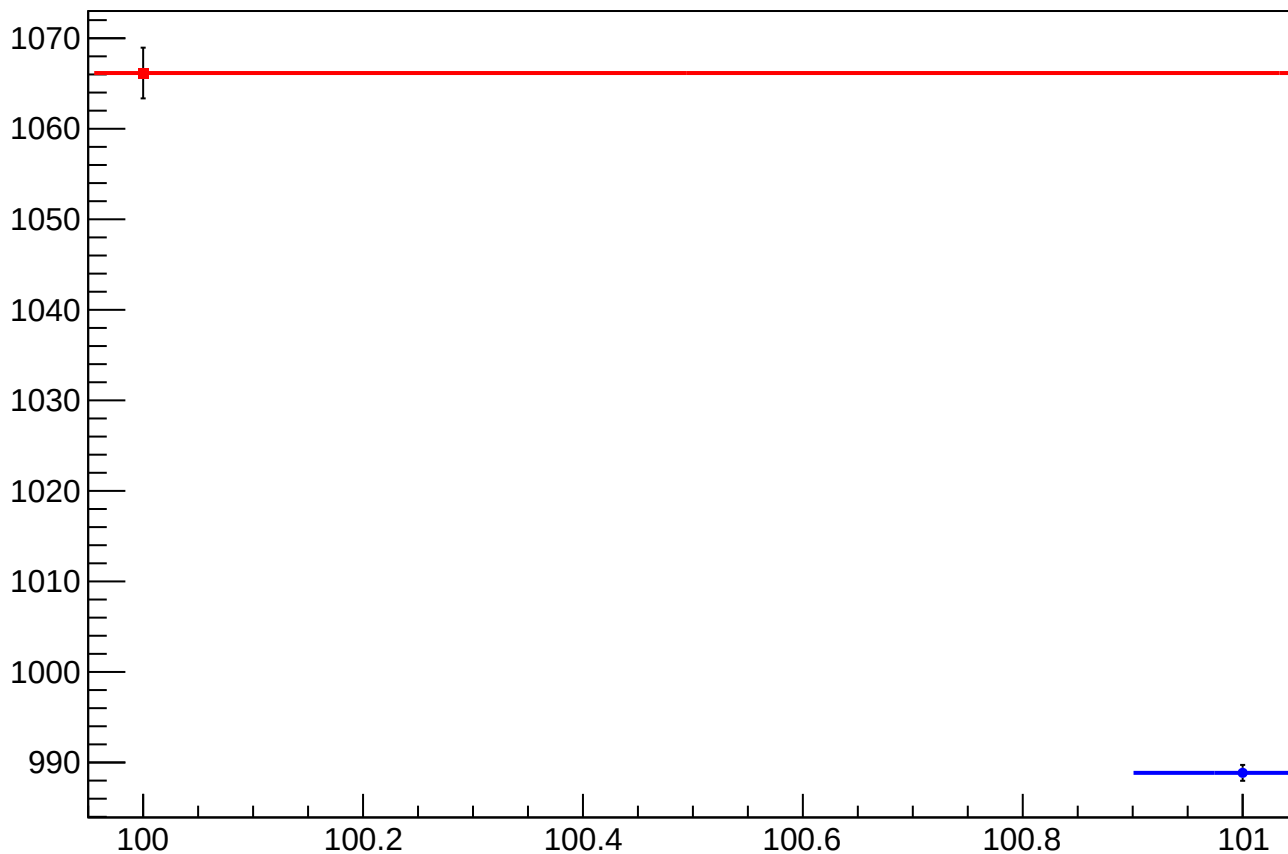
Right: -27.247+/-1183.719  $\chi^2/\text{NDF}$ : 0.0/1

In: -7.122+/-1240.398  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: -27.247+/-1183.719  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_atl1\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 988.854 $\pm$ 0.877  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1066.157 $\pm$ 2.801  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

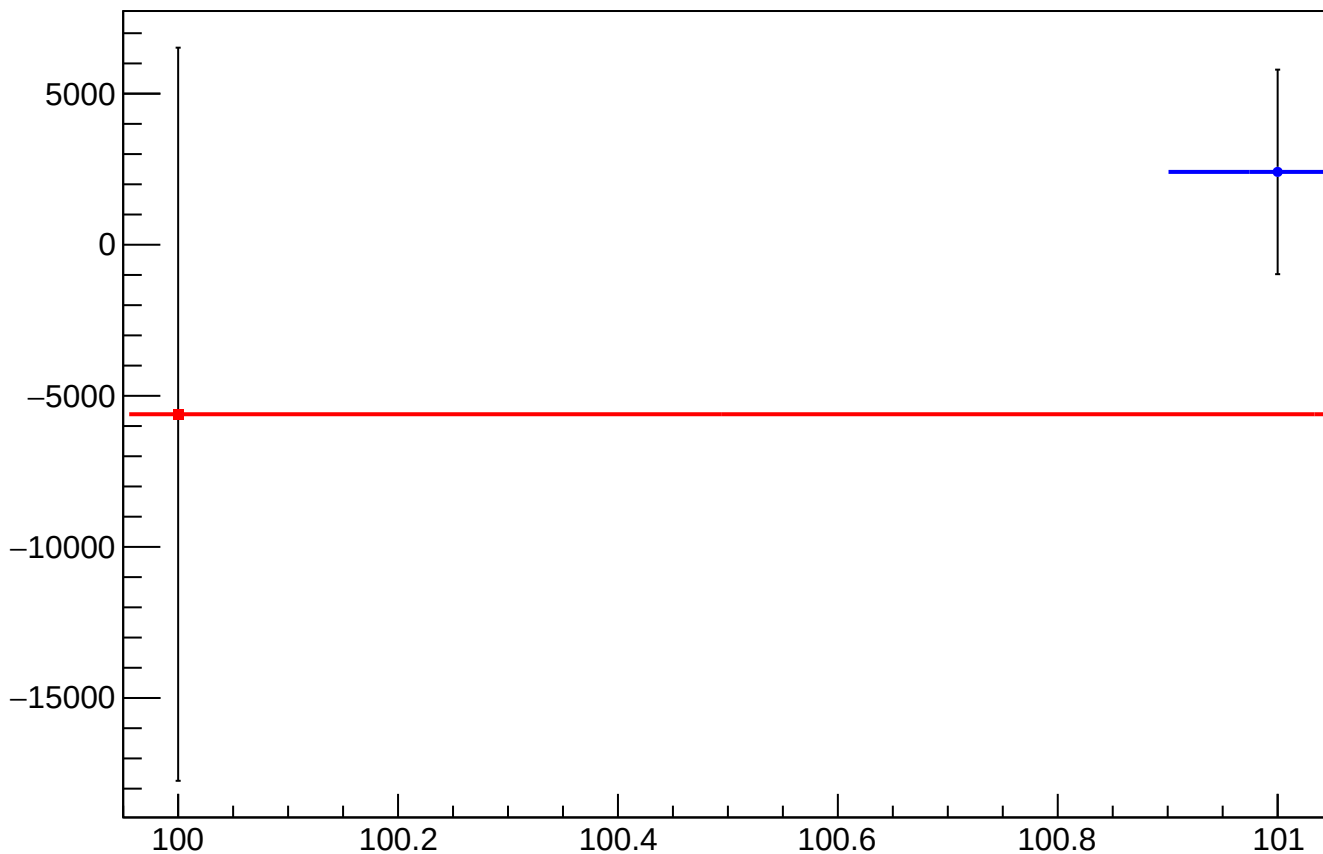
Right: 995.758 $\pm$ 0.837  $\chi^2/\text{NDF}$ : 693.7/1

In: 988.854 $\pm$ 0.877  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 995.758 $\pm$ 0.837  $\chi^2/\text{NDF}$ : 693.7/1

eigen\_dit\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 2410.325+/-3384.181  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5609.370+/-12130.989  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

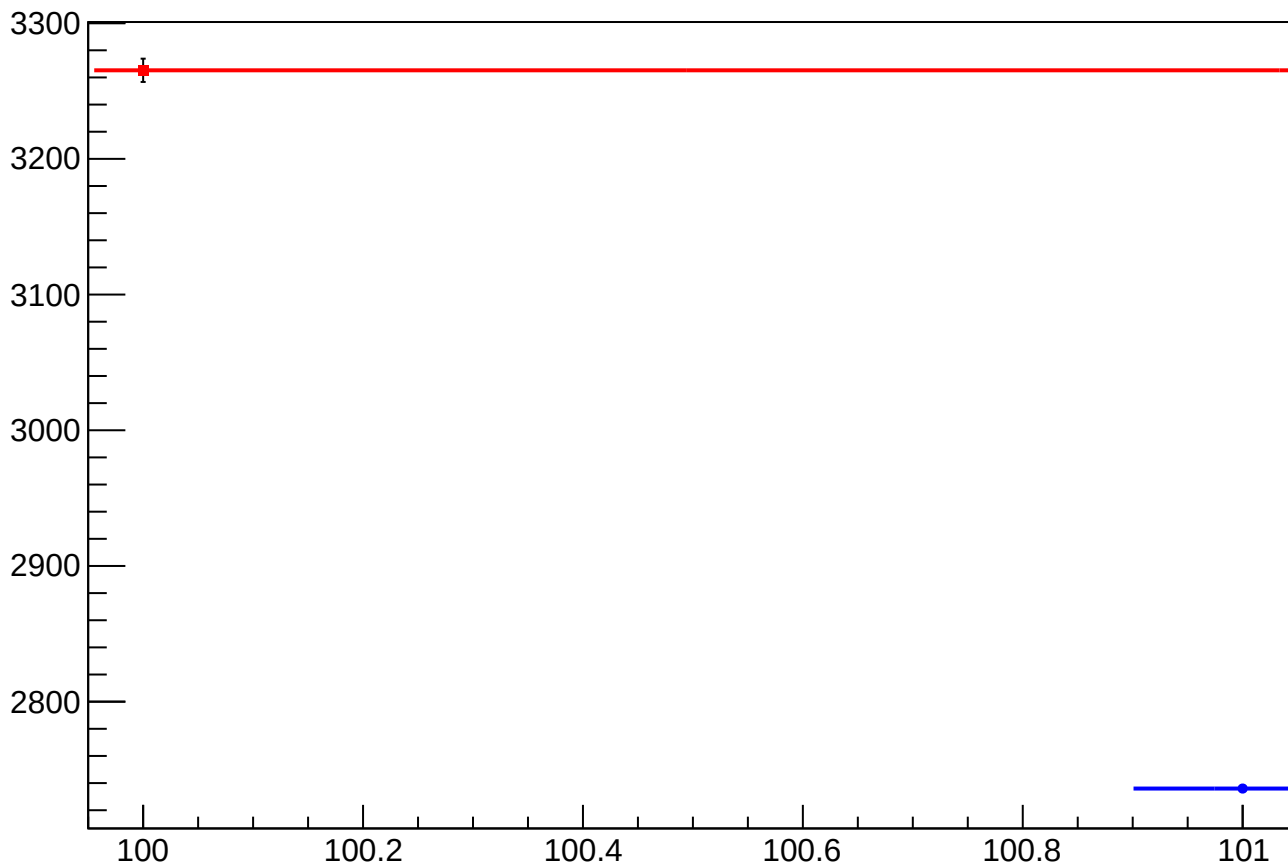
Right: 1831.263+/-3259.715  $\chi^2/\text{NDF}$ : 0.4/1

In: 2410.325+/-3384.181  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1831.263+/-3259.715  $\chi^2/\text{NDF}$ : 0.4/1

# eigen\_dit\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2735.973 $\pm$ 2.393  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3265.255 $\pm$ 8.578  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

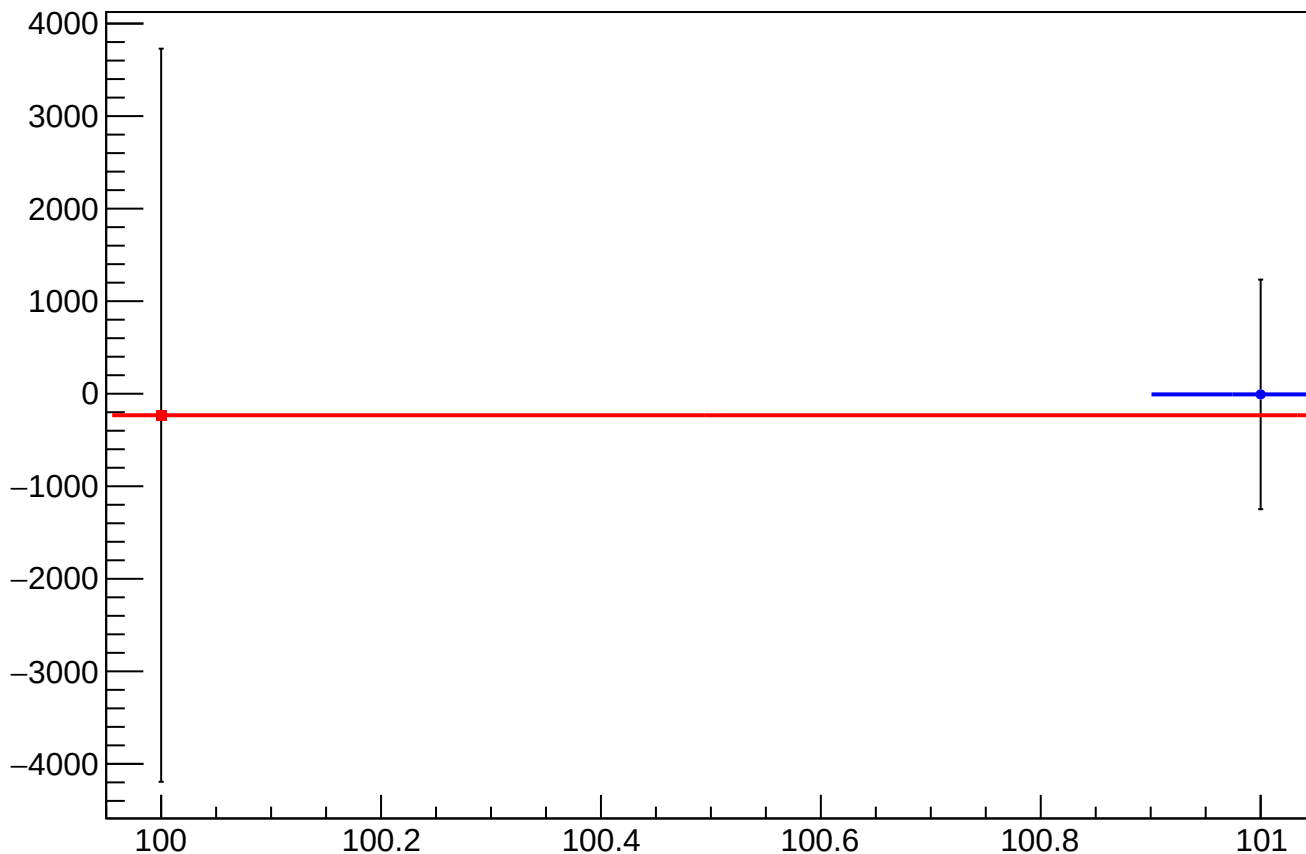
Right: 2774.189 $\pm$ 2.305  $\chi^2$ /NDF: 3532.4/1

In: 2735.973 $\pm$ 2.393  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2774.189 $\pm$ 2.305  $\chi^2$ /NDF: 3532.4/1

asym\_atl1\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -7.129+/-1240.398  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -232.455+/-3961.152  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

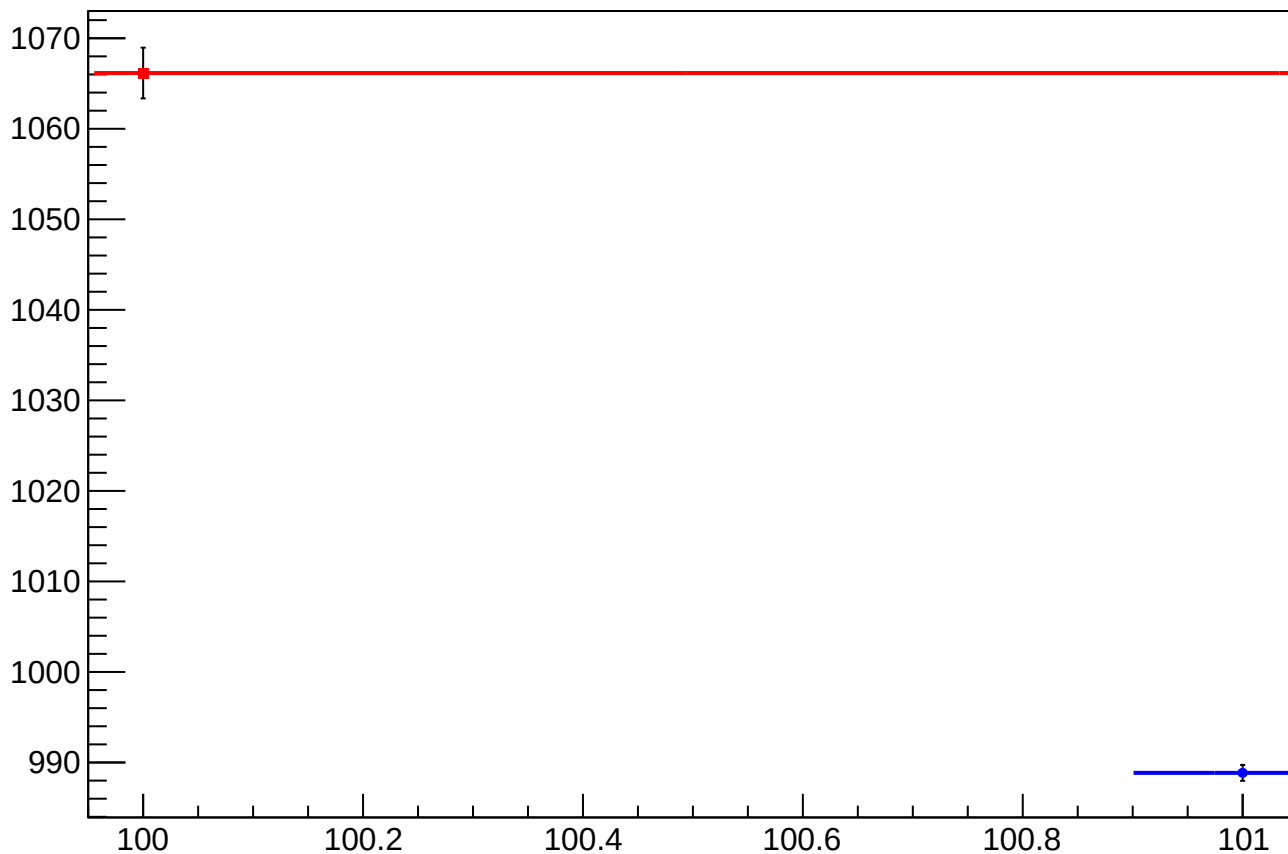
Right: -27.250+/-1183.719  $\chi^2/\text{NDF}$ : 0.0/1

In: -7.129+/-1240.398  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -27.250+/-1183.719  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 988.855+/-0.877  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1066.159+/-2.801  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 995.758+/-0.837  $\chi^2/\text{NDF}$ : 693.7/1

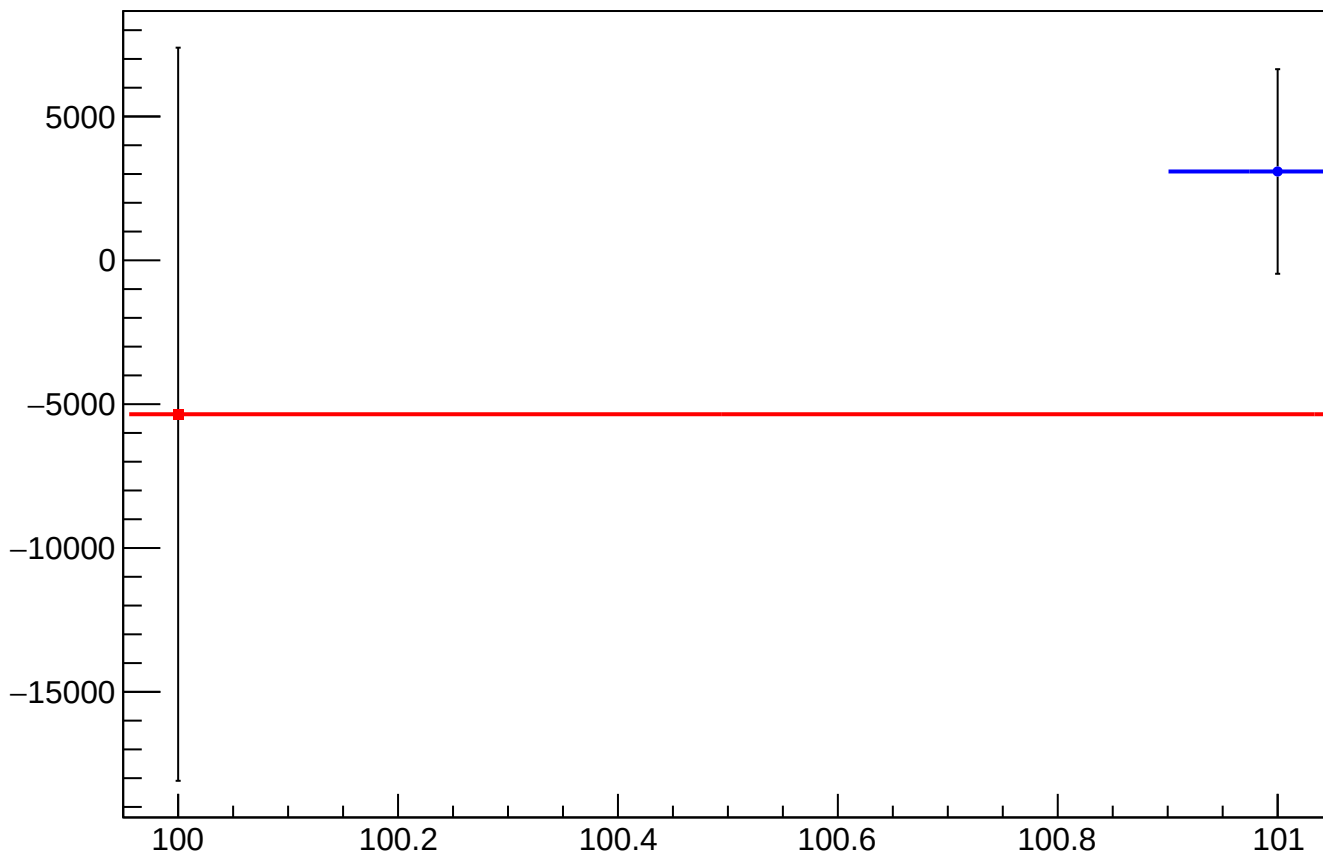
In: 988.855+/-0.877  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 995.758+/-0.837  $\chi^2/\text{NDF}$ : 693.7/1



# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 3088.344+/-3555.732  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5349.769+/-12741.605  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

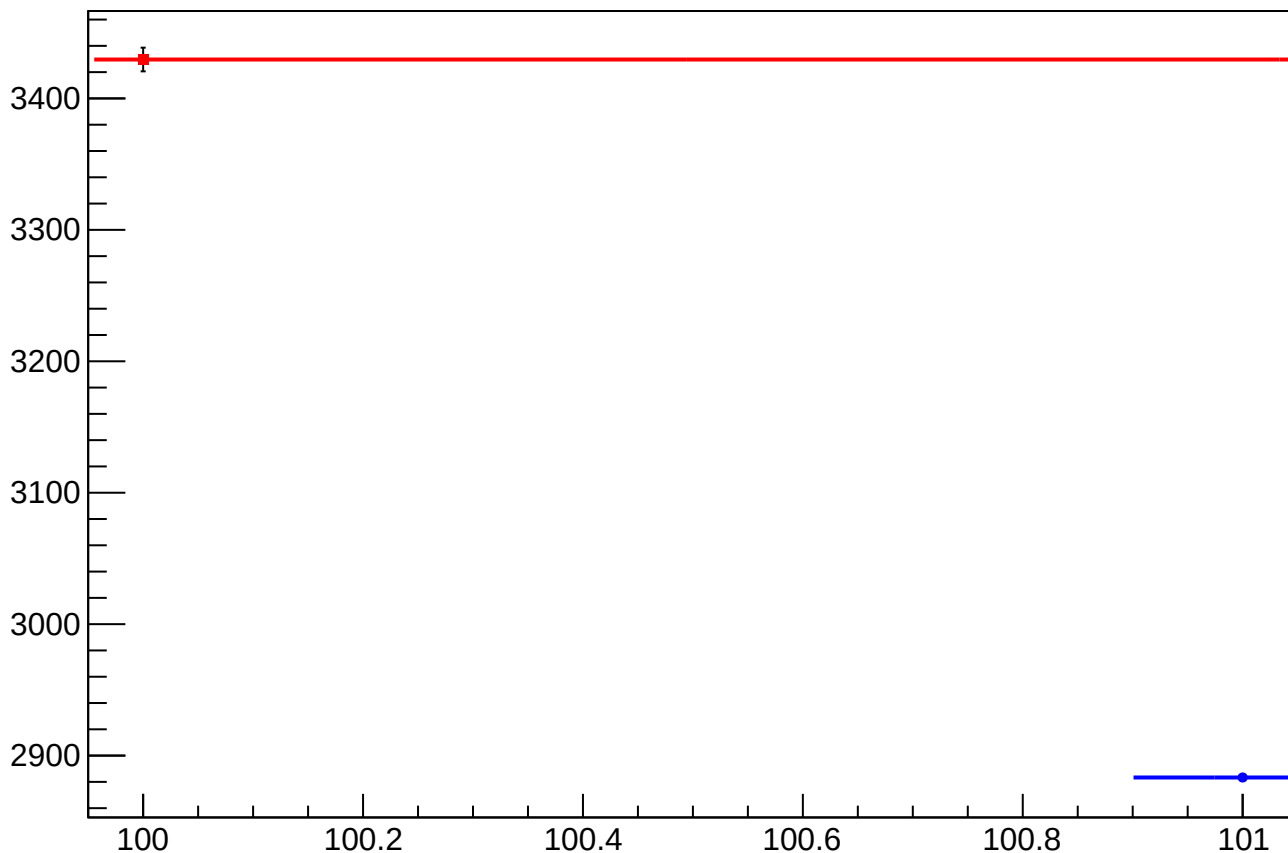
Right: 2478.687+/-3424.872  $\chi^2/\text{NDF}$ : 0.4/1

In: 3088.344+/-3555.732  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2478.687+/-3424.872  $\chi^2/\text{NDF}$ : 0.4/1

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2883.338 $\pm$ 2.514  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3429.606 $\pm$ 9.010  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

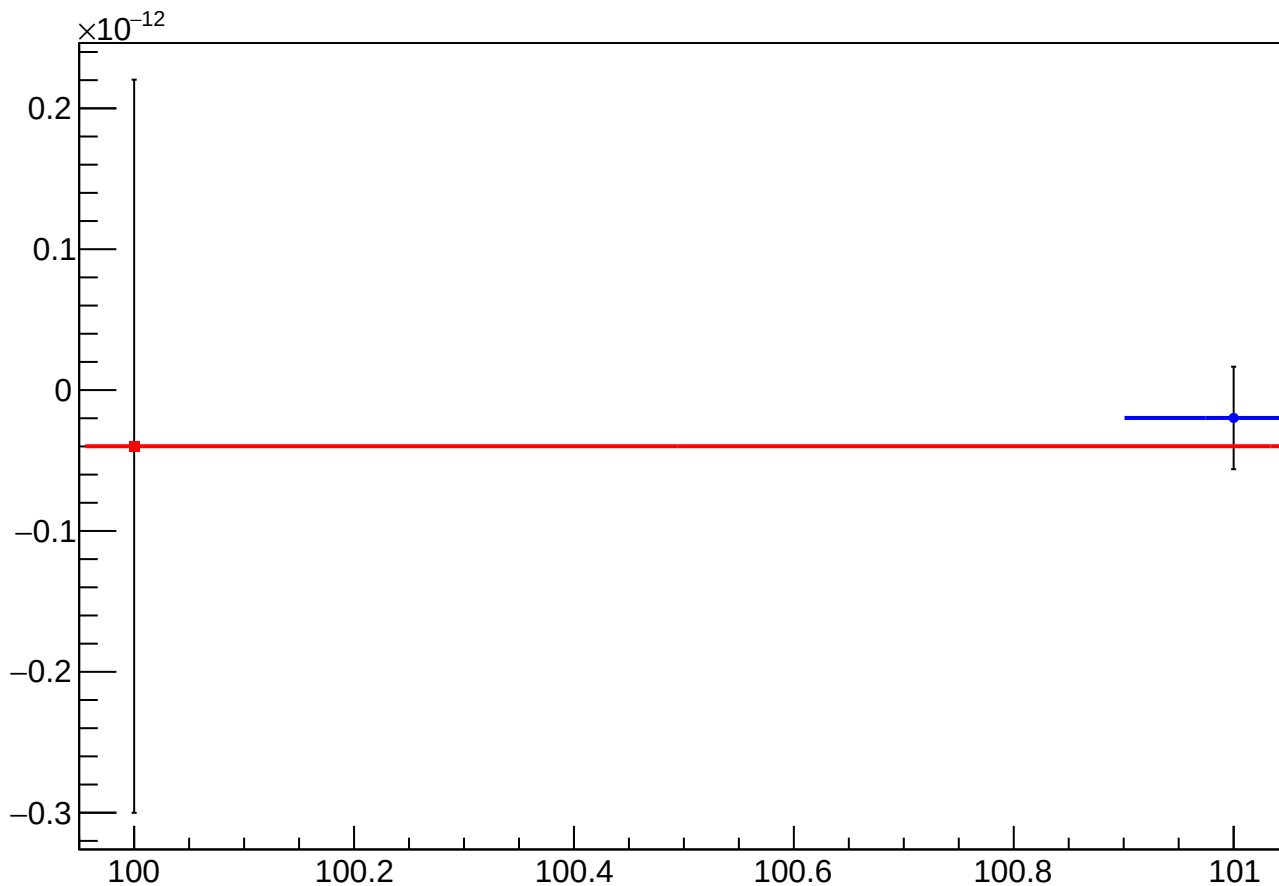
Right: 2922.806 $\pm$ 2.422  $\chi^2$ /NDF: 3410.5/1

In: 2883.338 $\pm$ 2.514  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2922.806 $\pm$ 2.422  $\chi^2$ /NDF: 3410.5/1

asym\_atl1\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

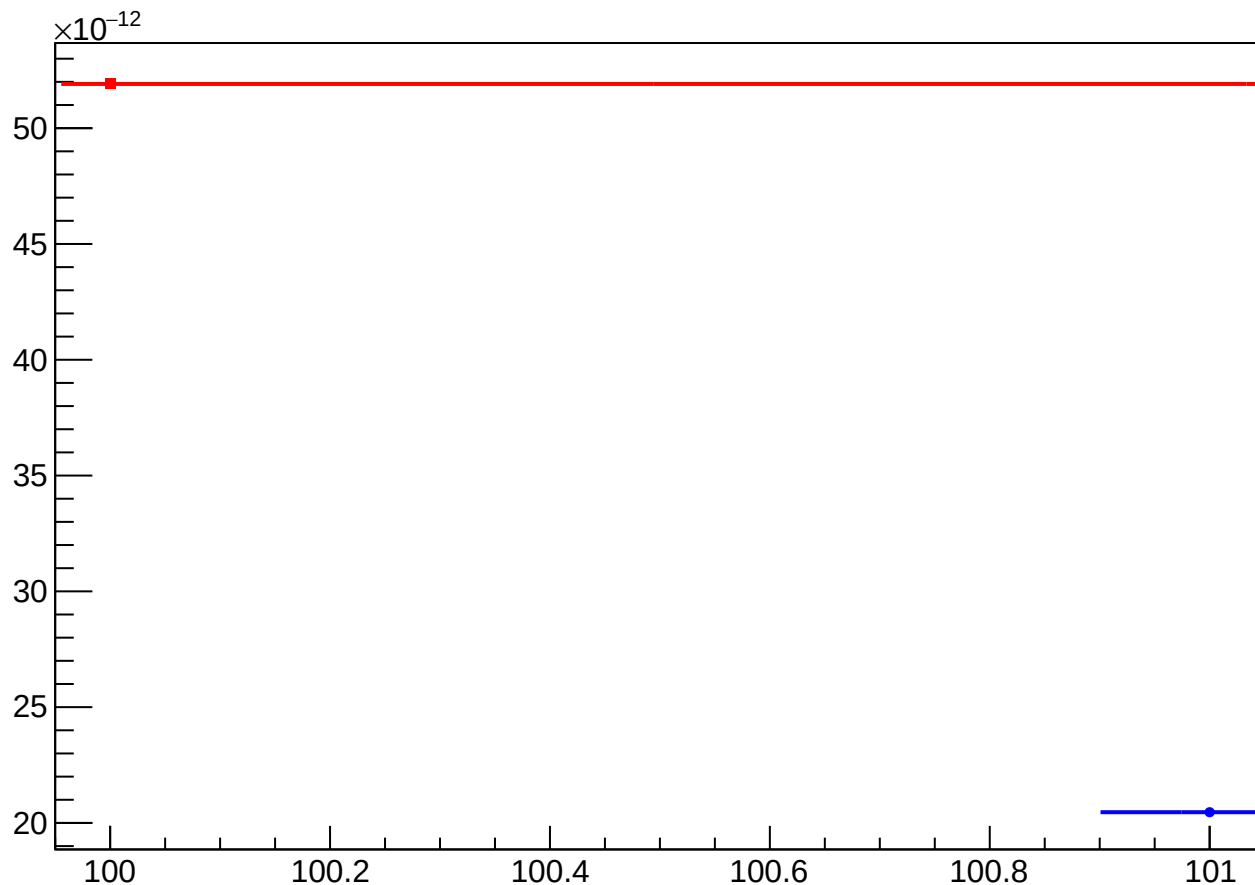
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

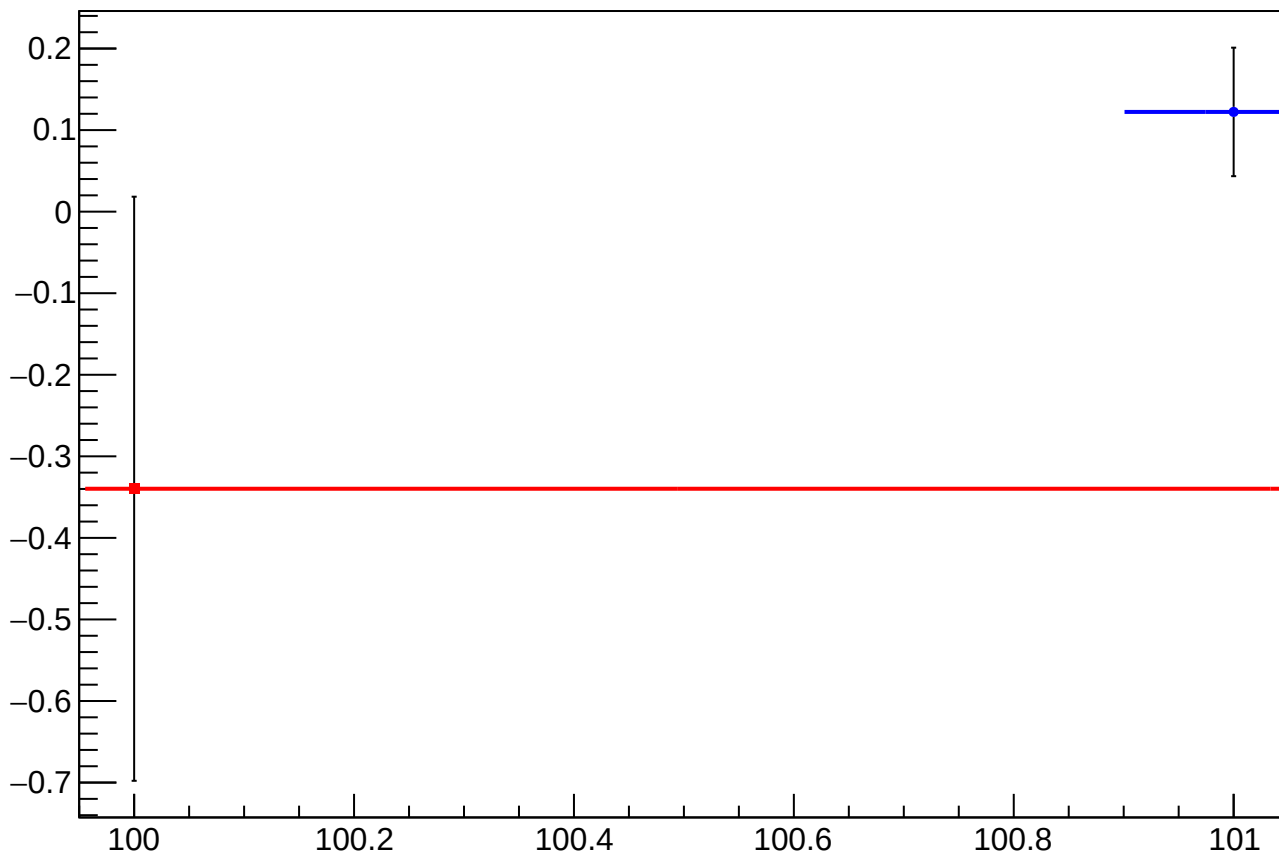
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28652.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28652.3/1

asym\_atl1\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.079  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.340+/-0.358  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

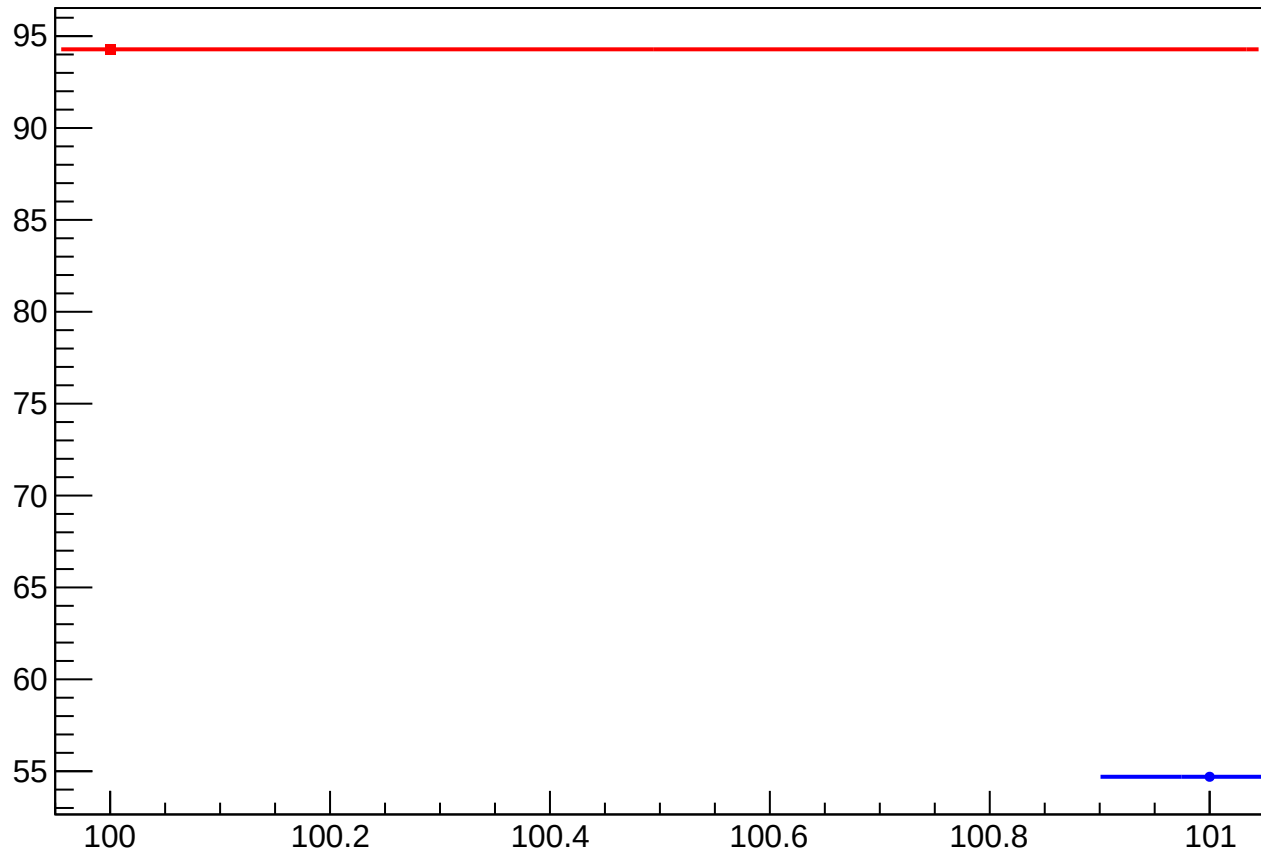
Right: 0.101+/-0.077  $\chi^2/\text{NDF}$ : 1.6/1

In: 0.122+/-0.079  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.101+/-0.077  $\chi^2/\text{NDF}$ : 1.6/1

asym\_atl1\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 54.698 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 94.281 $\pm$ 0.253  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

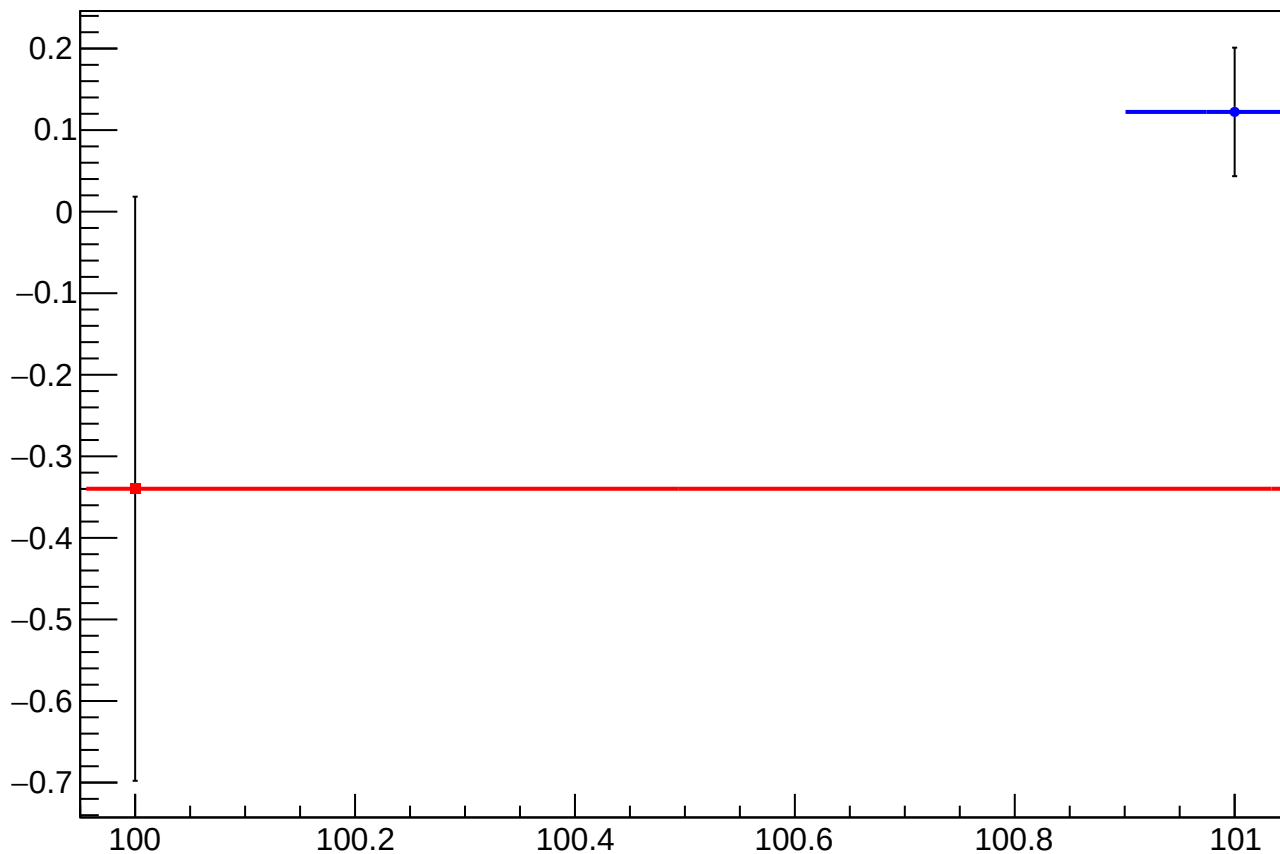
Right: 56.525 $\pm$ 0.054  $\chi^2$ /NDF: 23310.3/1

In: 54.698 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.525 $\pm$ 0.054  $\chi^2$ /NDF: 23310.3/1

asym\_atl1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.340 $\pm$ 0.358  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

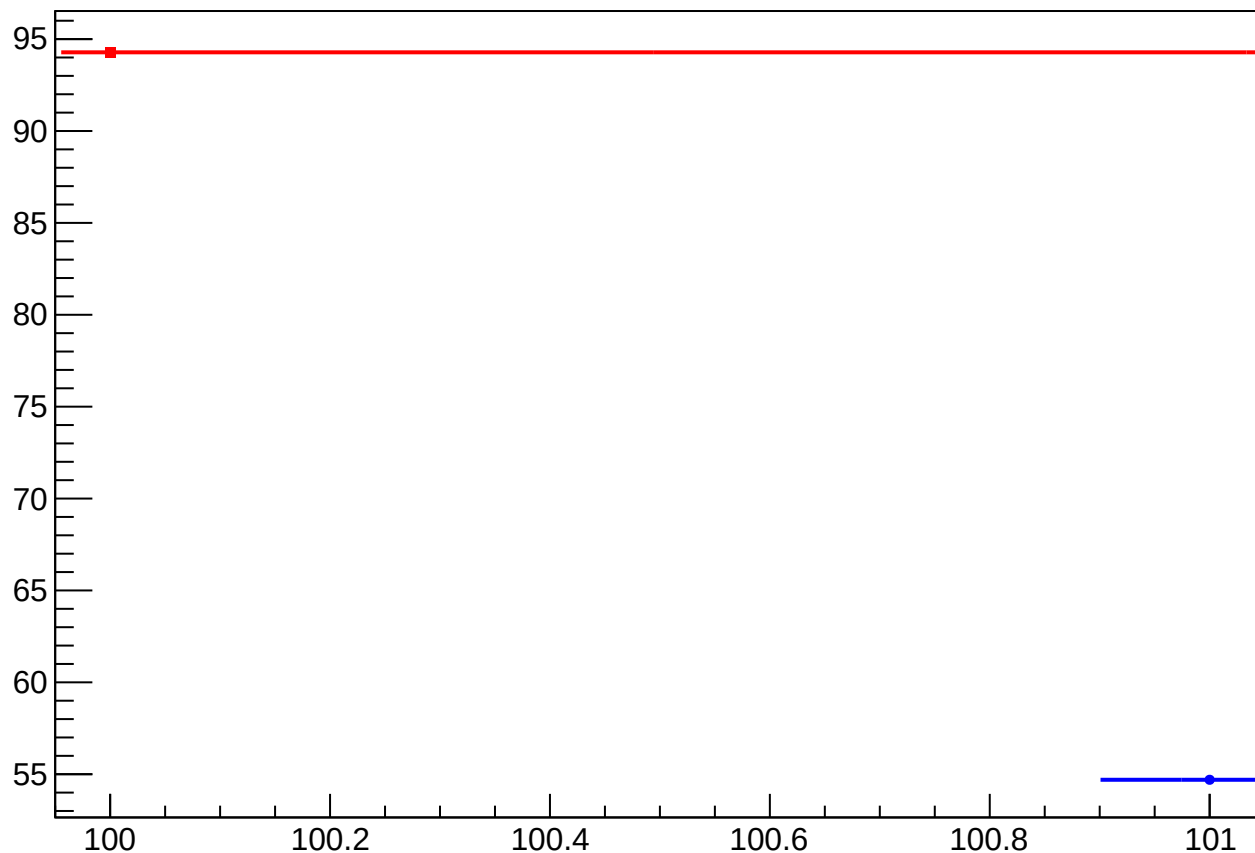
Right: 0.101 $\pm$ 0.077  $\chi^2/\text{NDF}$ : 1.6/1

In: 0.122 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.101 $\pm$ 0.077  $\chi^2/\text{NDF}$ : 1.6/1

asym\_atl1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 54.698 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 94.281 $\pm$ 0.253  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 56.525 $\pm$ 0.054  $\chi^2$ /NDF: 23310.3/1

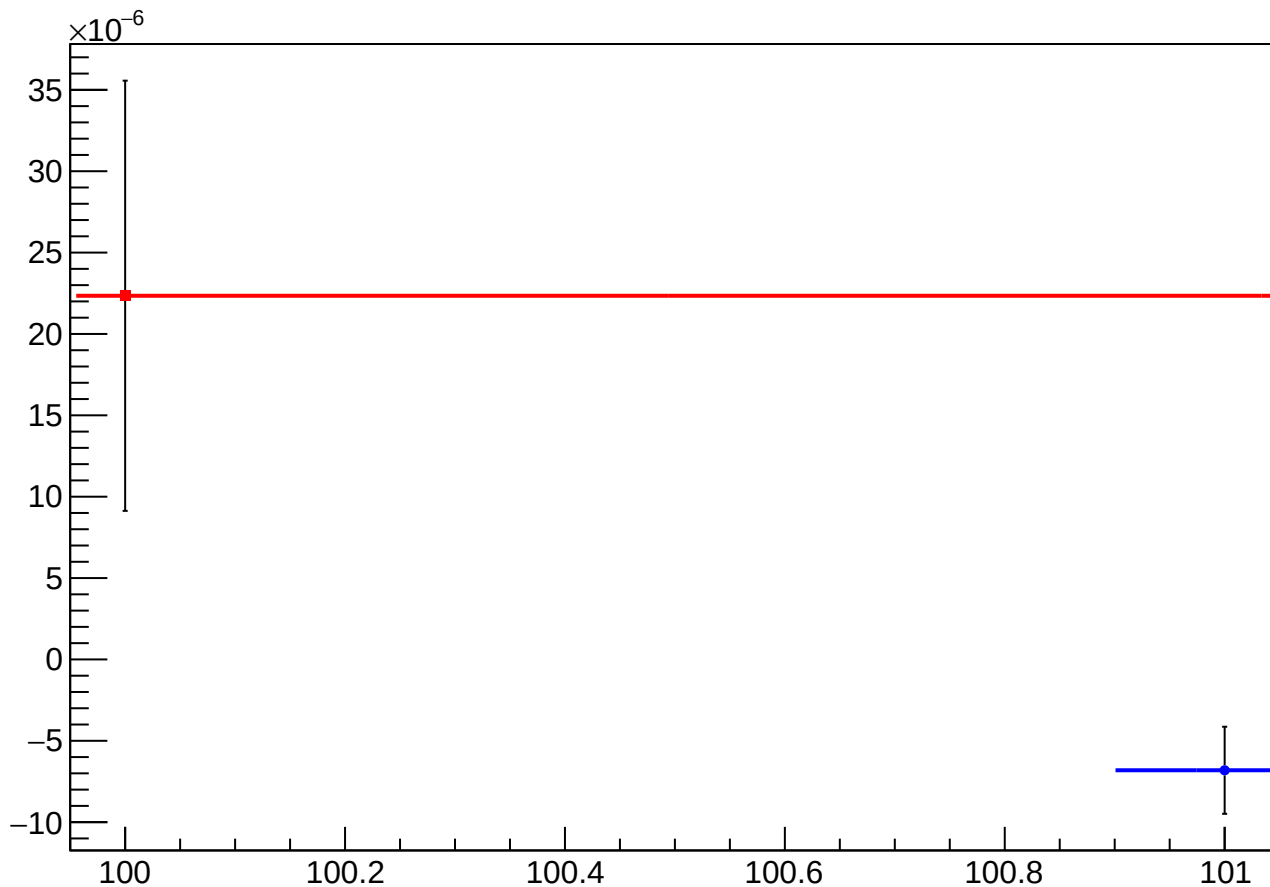
In: 54.698 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.525 $\pm$ 0.054  $\chi^2$ /NDF: 23310.3/1



asym\_atl1\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

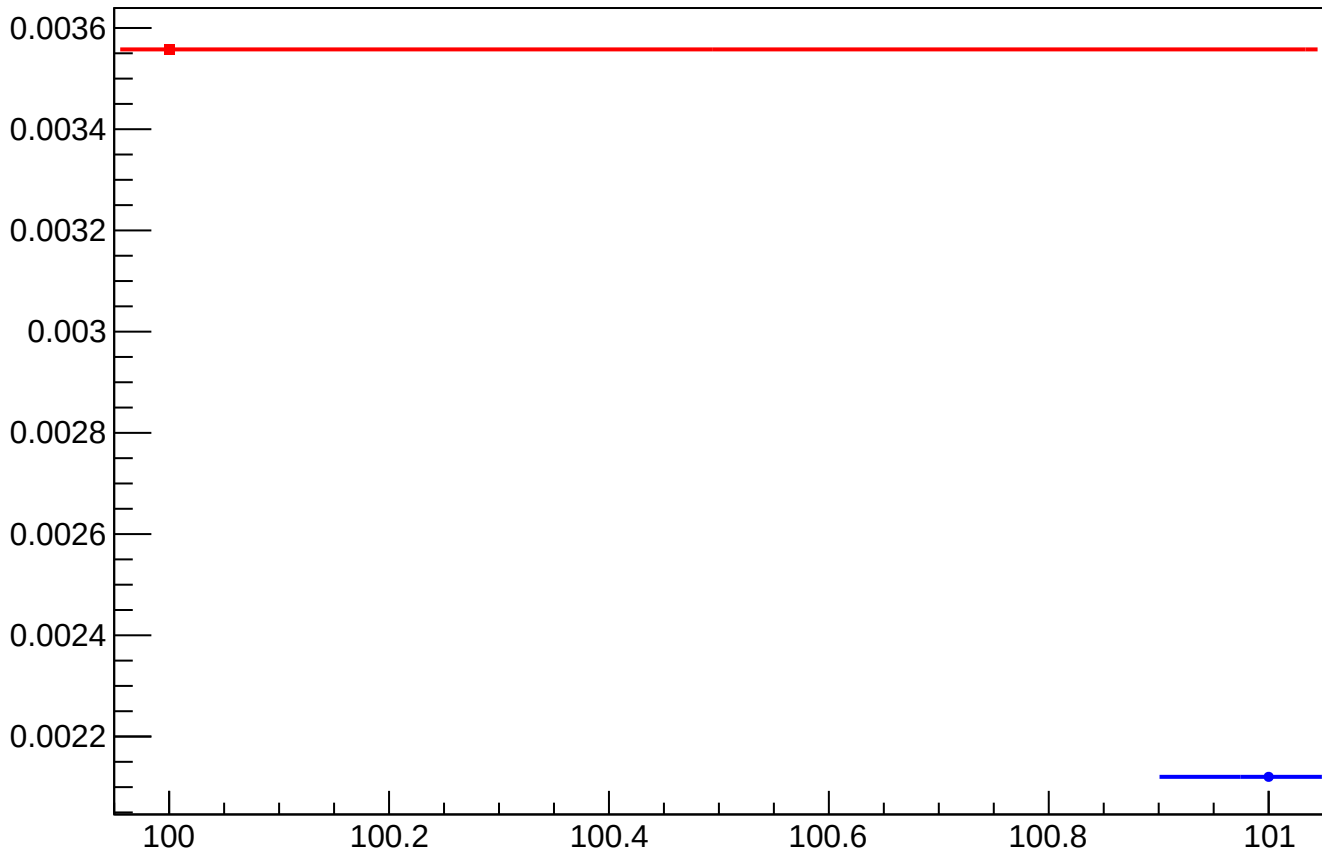
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.7/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.7/1

asym\_atl1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

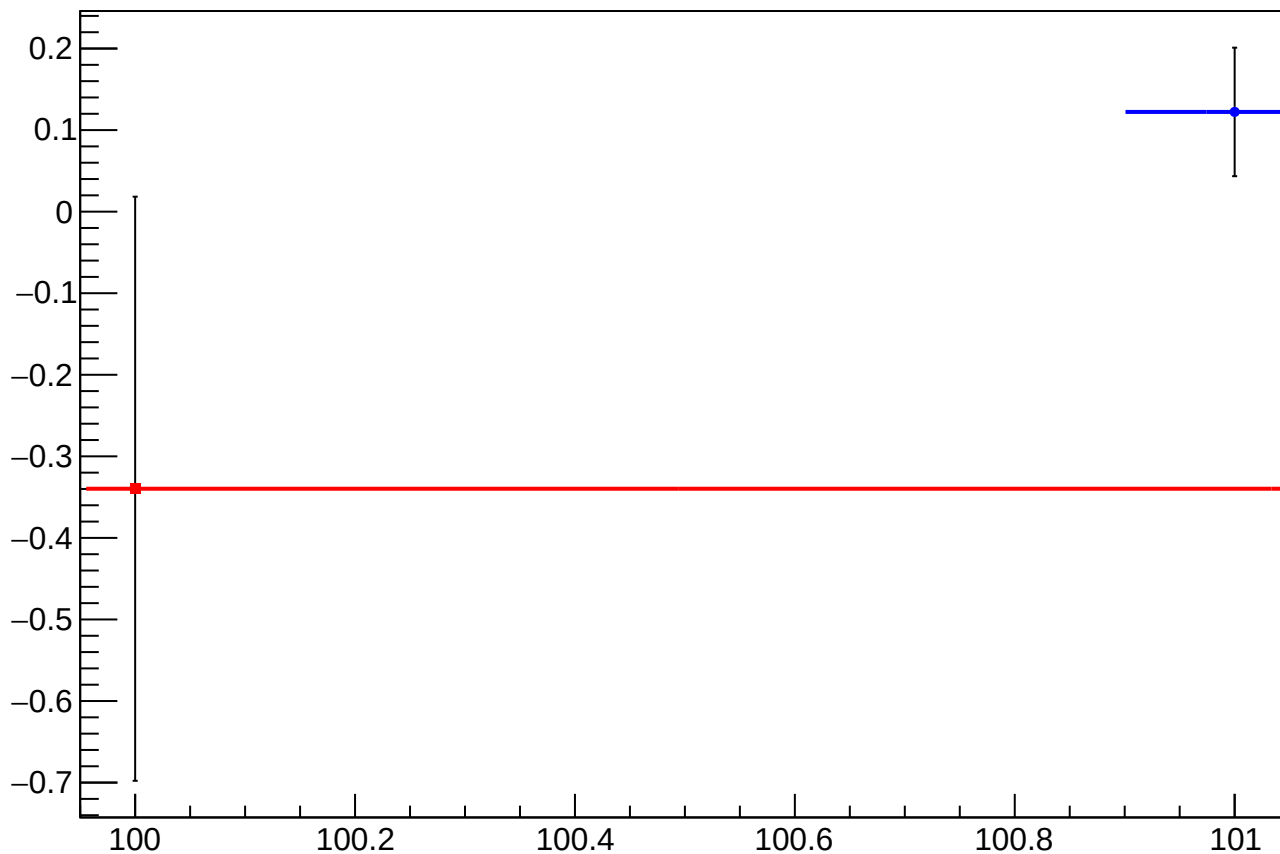
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 22720.5/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 22720.5/1

asym\_atl1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.340 $\pm$ 0.358  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.101 $\pm$ 0.077  $\chi^2/\text{NDF}$ : 1.6/1

In: 0.122 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.101 $\pm$ 0.077  $\chi^2/\text{NDF}$ : 1.6/1

asym\_atl1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 54.697 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 94.281 $\pm$ 0.253  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

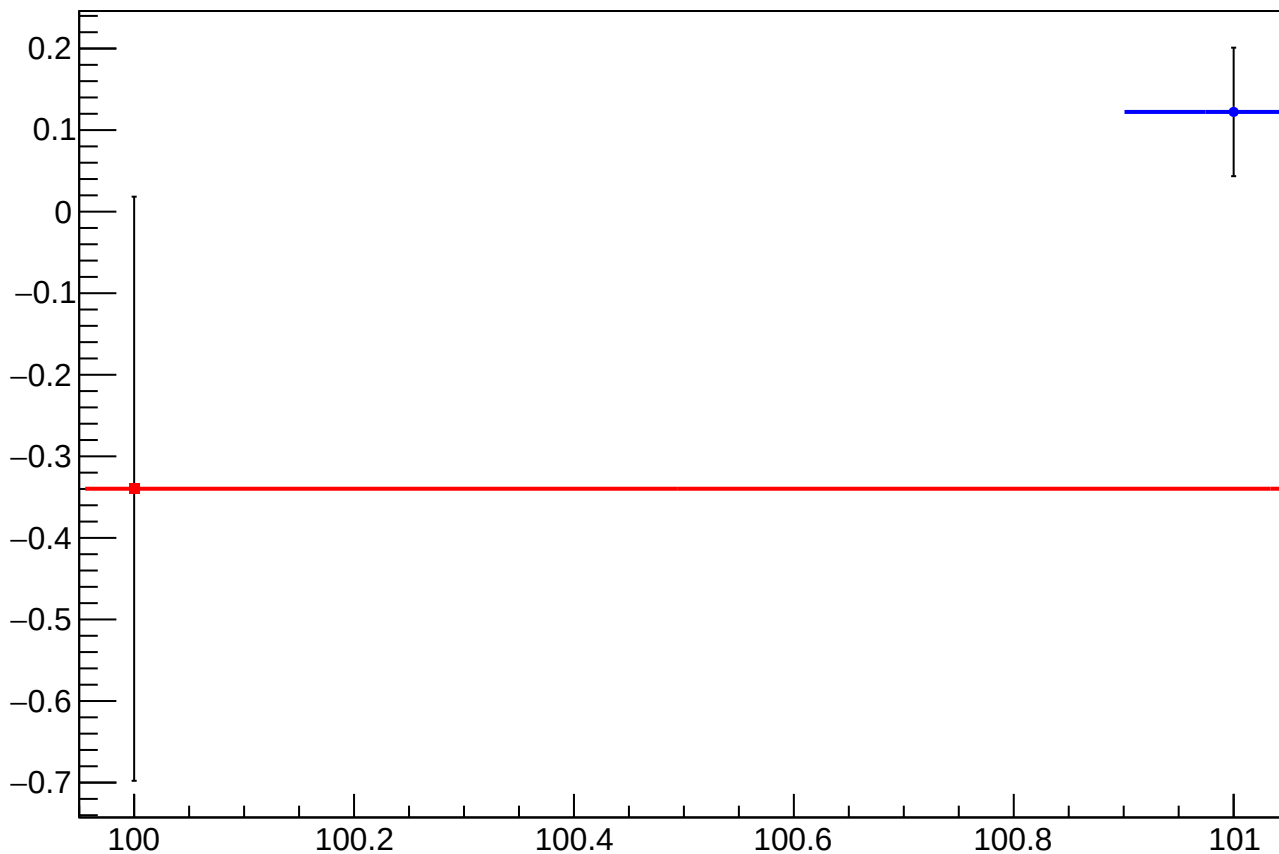
Right: 56.525 $\pm$ 0.054  $\chi^2$ /NDF: 23310.7/1

In: 54.697 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.525 $\pm$ 0.054  $\chi^2$ /NDF: 23310.7/1

asym\_atl1\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122 $\pm$ 0.079  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.340 $\pm$ 0.358  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

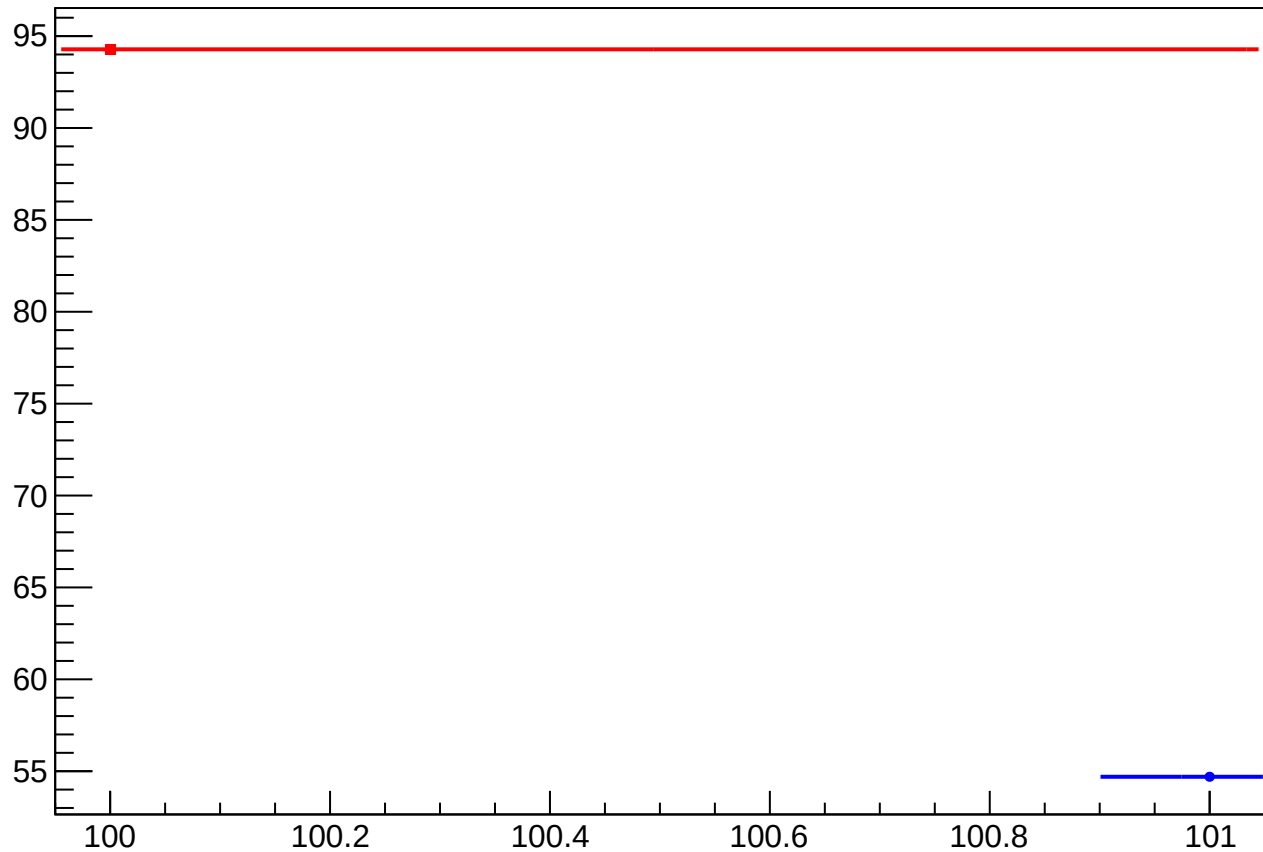
Right: 0.101 $\pm$ 0.077  $\chi^2$ /NDF: 1.6/1

In: 0.122 $\pm$ 0.079  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.101 $\pm$ 0.077  $\chi^2$ /NDF: 1.6/1

asym\_atl1\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 54.697 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 94.281 $\pm$ 0.253  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

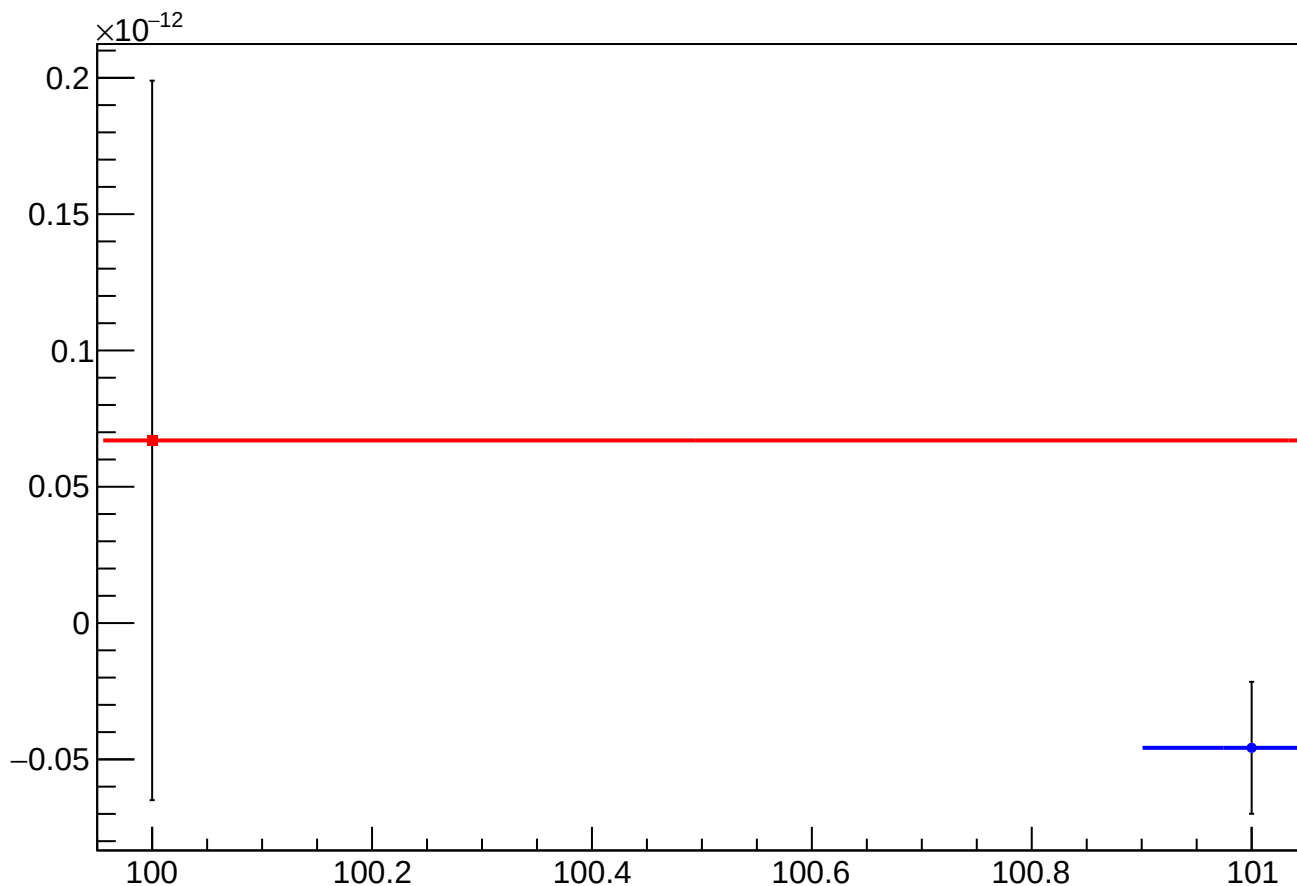
Right: 56.525 $\pm$ 0.054  $\chi^2$ /NDF: 23310.7/1

In: 54.697 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.525 $\pm$ 0.054  $\chi^2$ /NDF: 23310.7/1

asym\_atl1\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

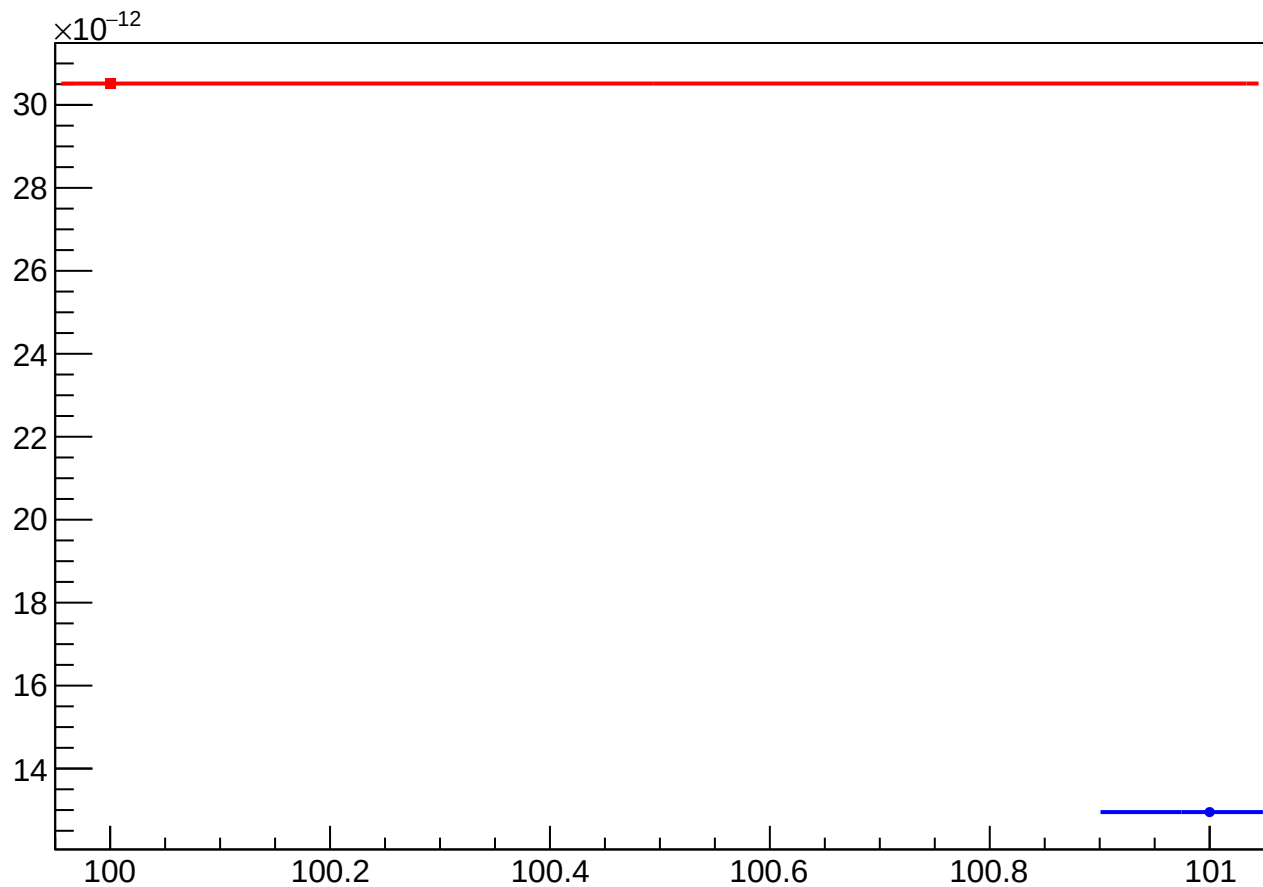
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.7/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.7/1

asym\_atl1\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 34278.9/1

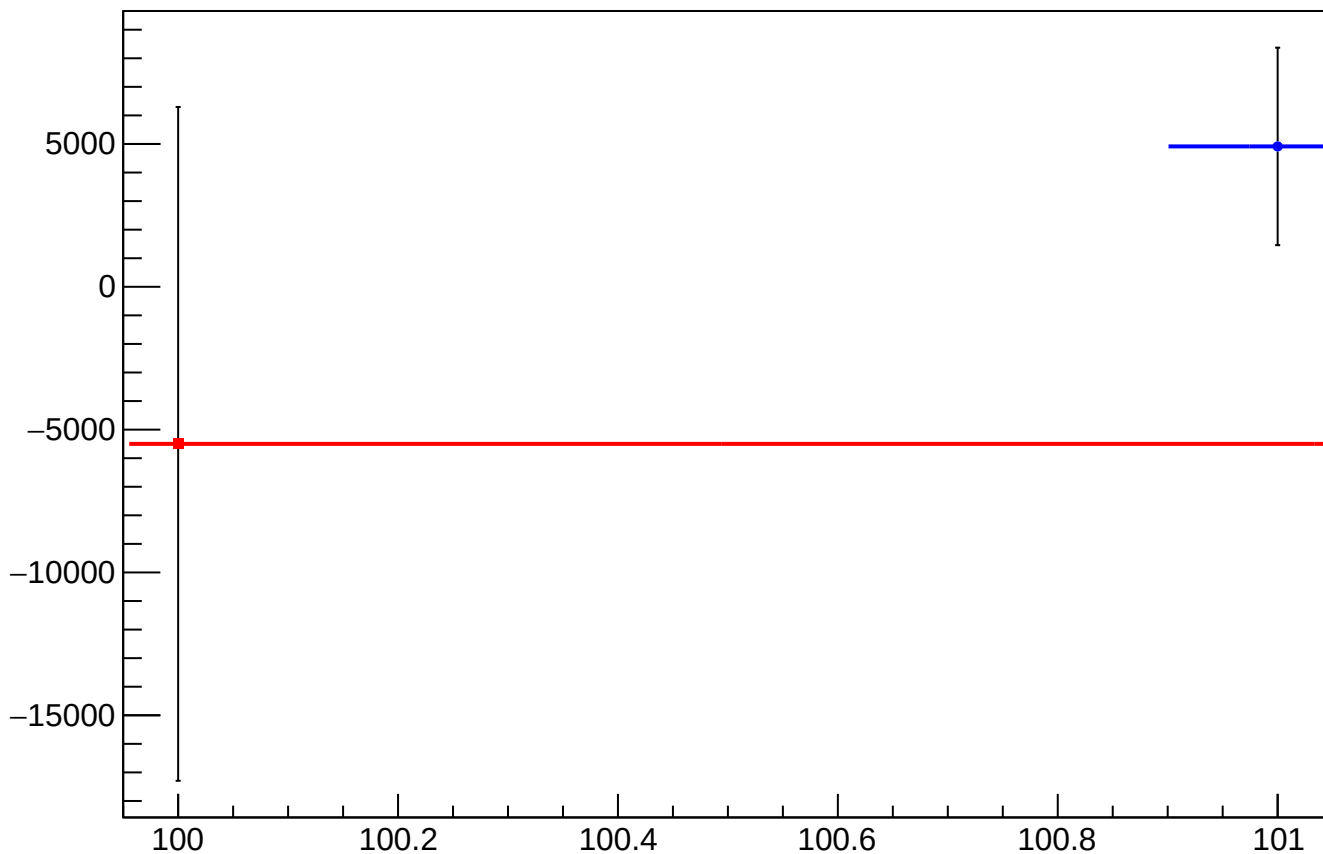
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 34278.9/1



# reg\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 4914.516+/-3456.780  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5499.115+/-11794.545  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

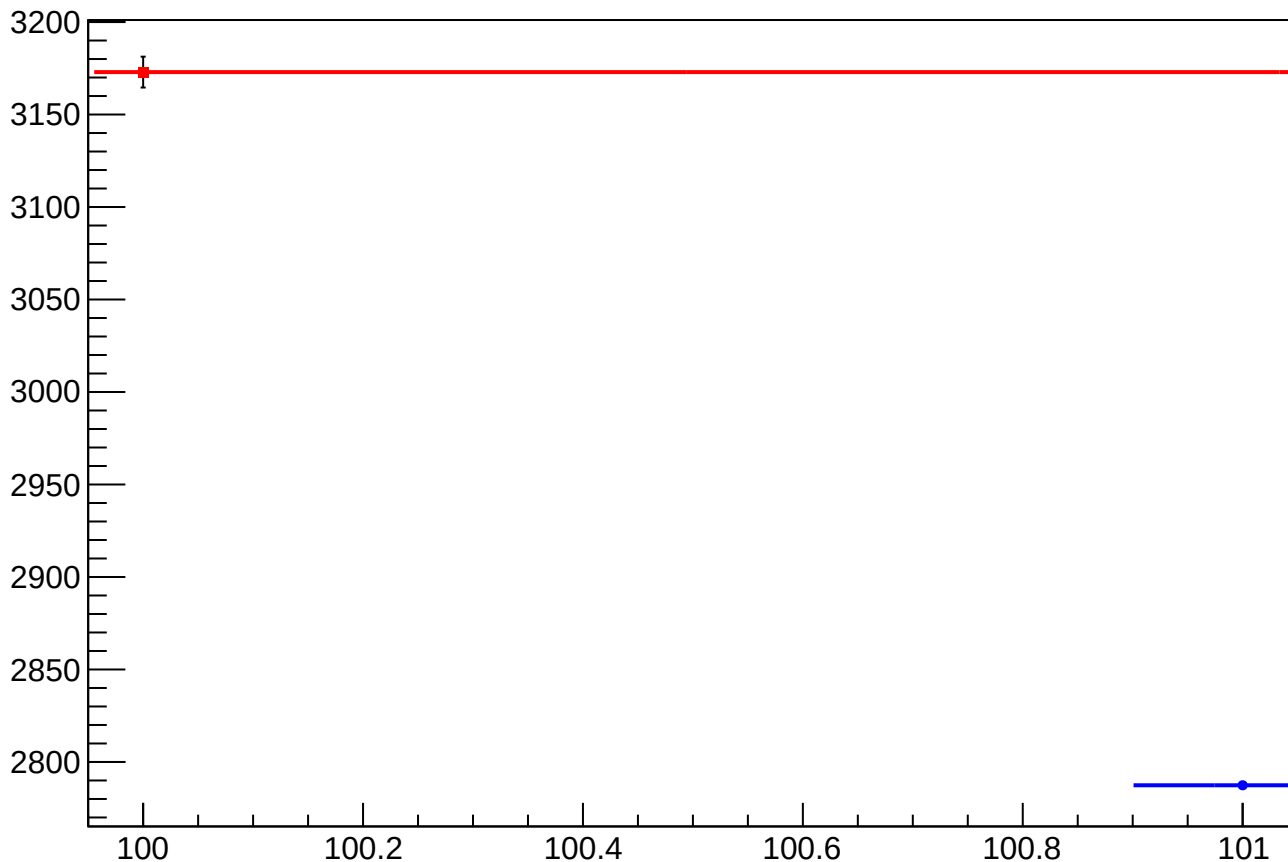
Right: 4090.768+/-3317.243  $\chi^2/\text{NDF}$ : 0.7/1

In: 4914.516+/-3456.780  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4090.768+/-3317.243  $\chi^2/\text{NDF}$ : 0.7/1

# reg\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 2787.404 $\pm$ 2.444  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3172.933 $\pm$ 8.340  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

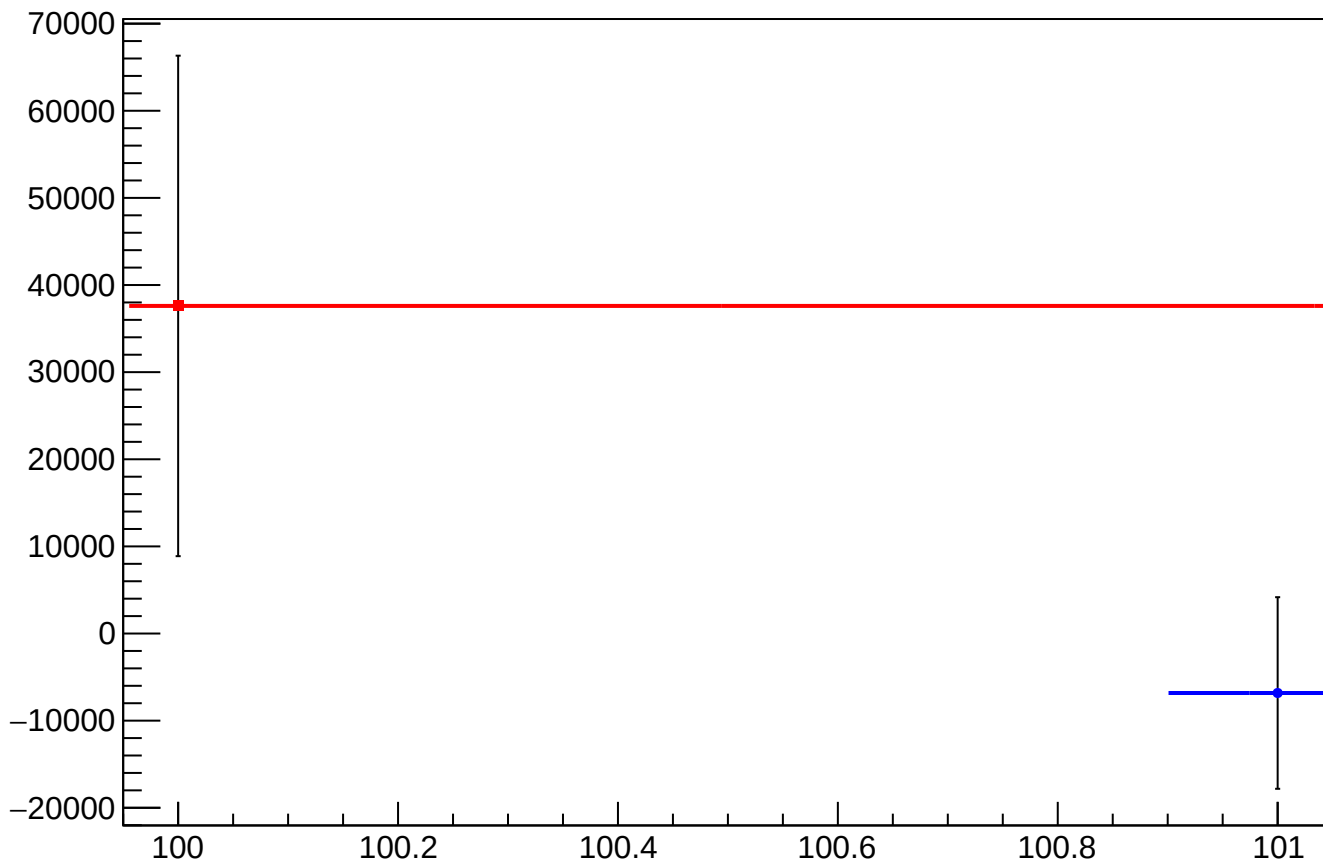
Right: 2817.901 $\pm$ 2.346  $\chi^2/\text{NDF}$ : 1967.9/1

In: 2787.404 $\pm$ 2.444  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2817.901 $\pm$ 2.346  $\chi^2/\text{NDF}$ : 1967.9/1

asym\_atl2\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -6825.445+/-10996.012  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37601.504+/-28722.322  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

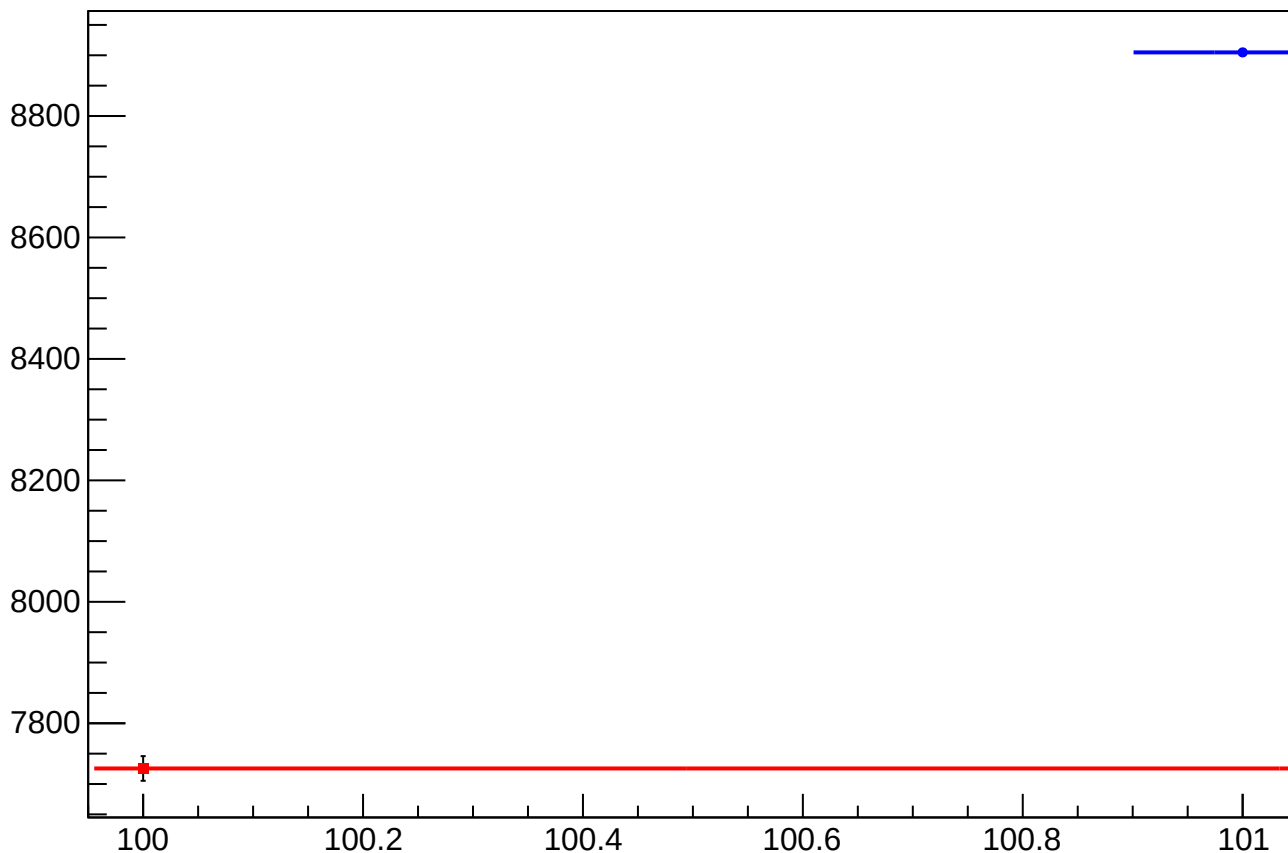
Right: -1146.352+/-10269.181  $\chi^2/\text{NDF}$ : 2.1/1

In: -6825.445+/-10996.012  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1146.352+/-10269.181  $\chi^2/\text{NDF}$ : 2.1/1

asym\_atl2\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 8904.764 $\pm$ 7.775  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7725.596 $\pm$ 20.310  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

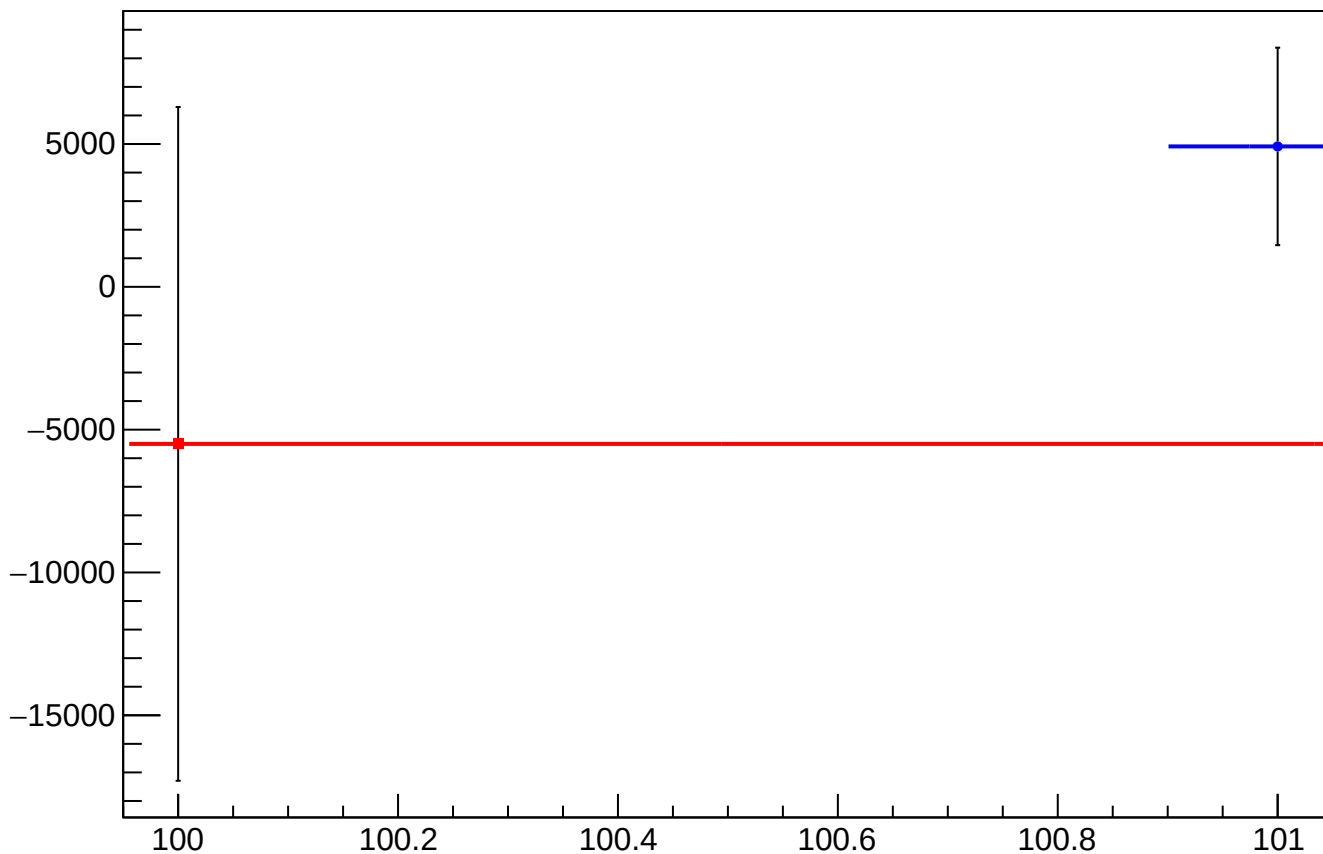
Right: 8754.032 $\pm$ 7.261  $\chi^2/\text{NDF}$ : 2940.0/1

In: 8904.764 $\pm$ 7.775  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8754.032 $\pm$ 7.261  $\chi^2/\text{NDF}$ : 2940.0/1

# cor\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 4916.088+/-3456.781  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5498.873+/-11794.545  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

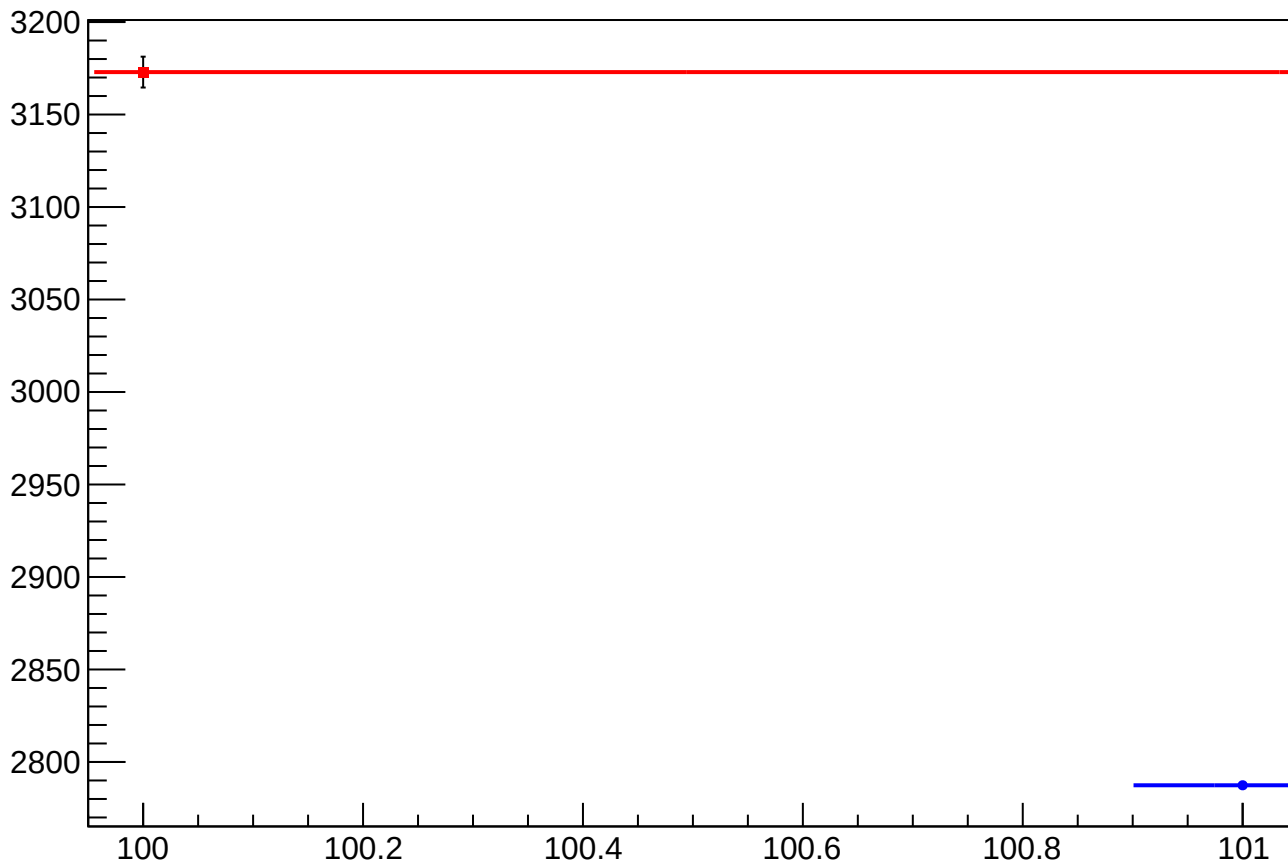
Right: 4092.234+/-3317.244  $\chi^2/\text{NDF}$ : 0.7/1

In: 4916.088+/-3456.781  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4092.234+/-3317.244  $\chi^2/\text{NDF}$ : 0.7/1

# cor\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 2787.403 $\pm$ 2.444  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3172.933 $\pm$ 8.340  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

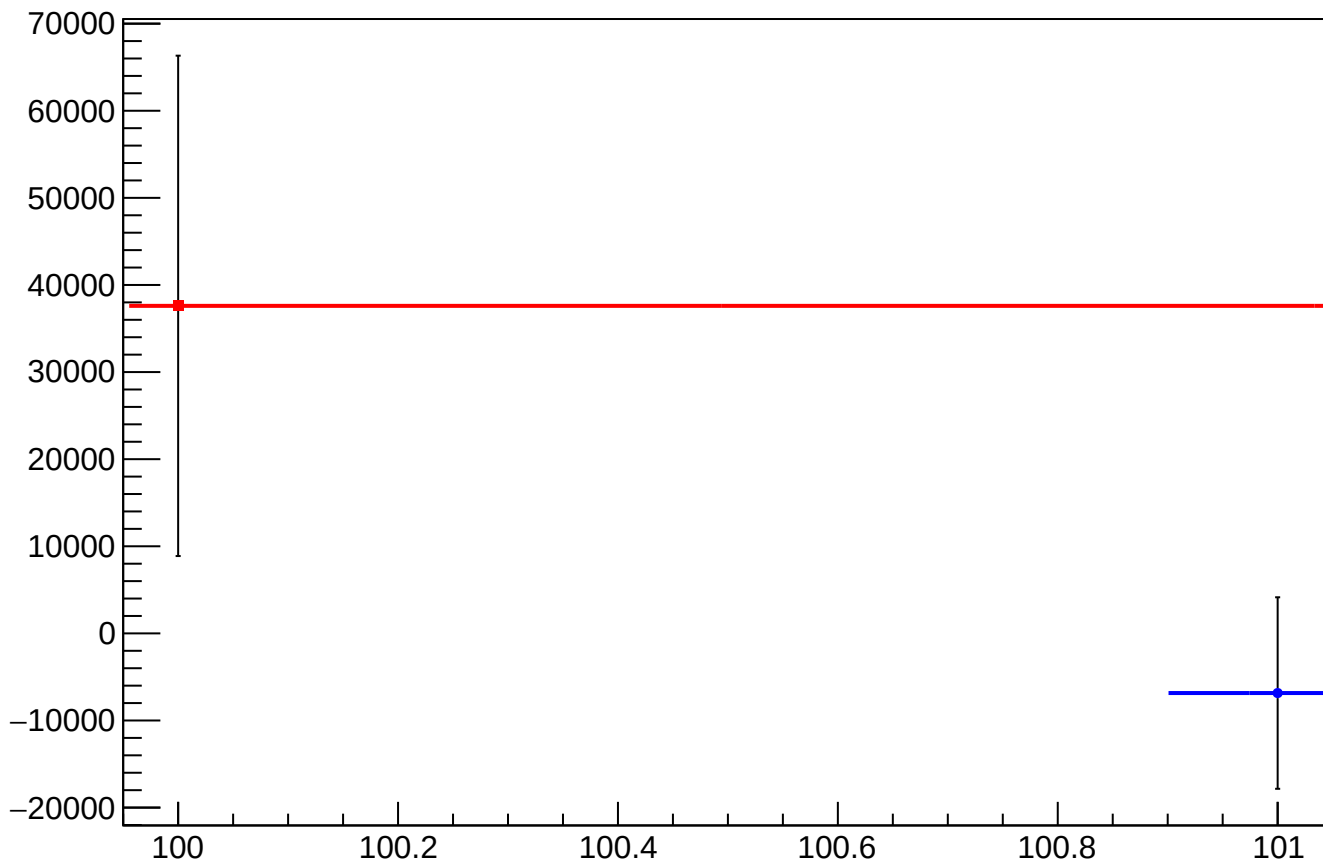
Right: 2817.900 $\pm$ 2.346  $\chi^2$ /NDF: 1967.9/1

In: 2787.403 $\pm$ 2.444  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2817.900 $\pm$ 2.346  $\chi^2$ /NDF: 1967.9/1

asym\_atl2\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -6848.677+/-10993.578  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37601.705+/-28722.337  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

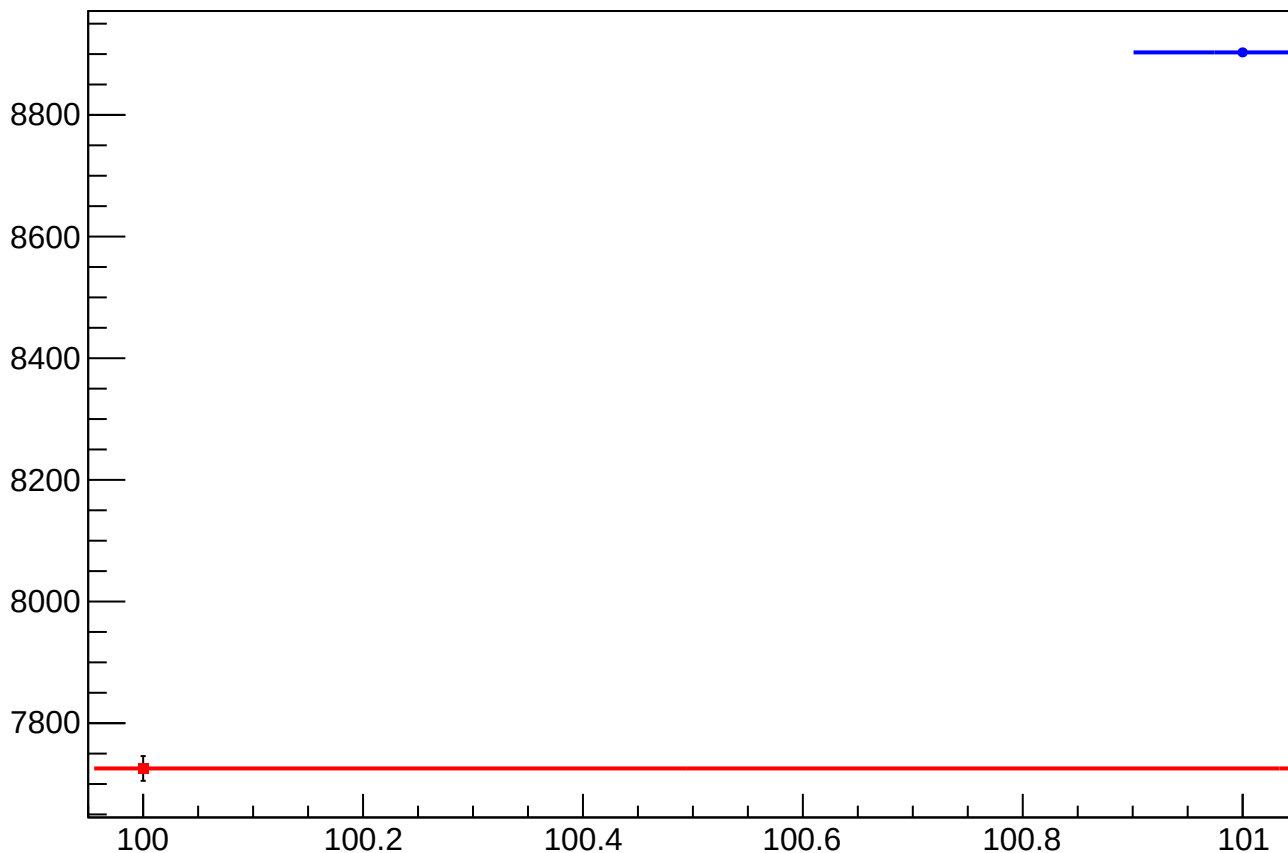
Right: -1168.787+/-10267.199  $\chi^2/\text{NDF}$ : 2.1/1

In: -6848.677+/-10993.578  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1168.787+/-10267.199  $\chi^2/\text{NDF}$ : 2.1/1

asym\_atl2\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 8902.778 $\pm$ 7.774  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7725.600 $\pm$ 20.310  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 8752.358 $\pm$ 7.260  $\chi^2$ /NDF: 2930.2/1

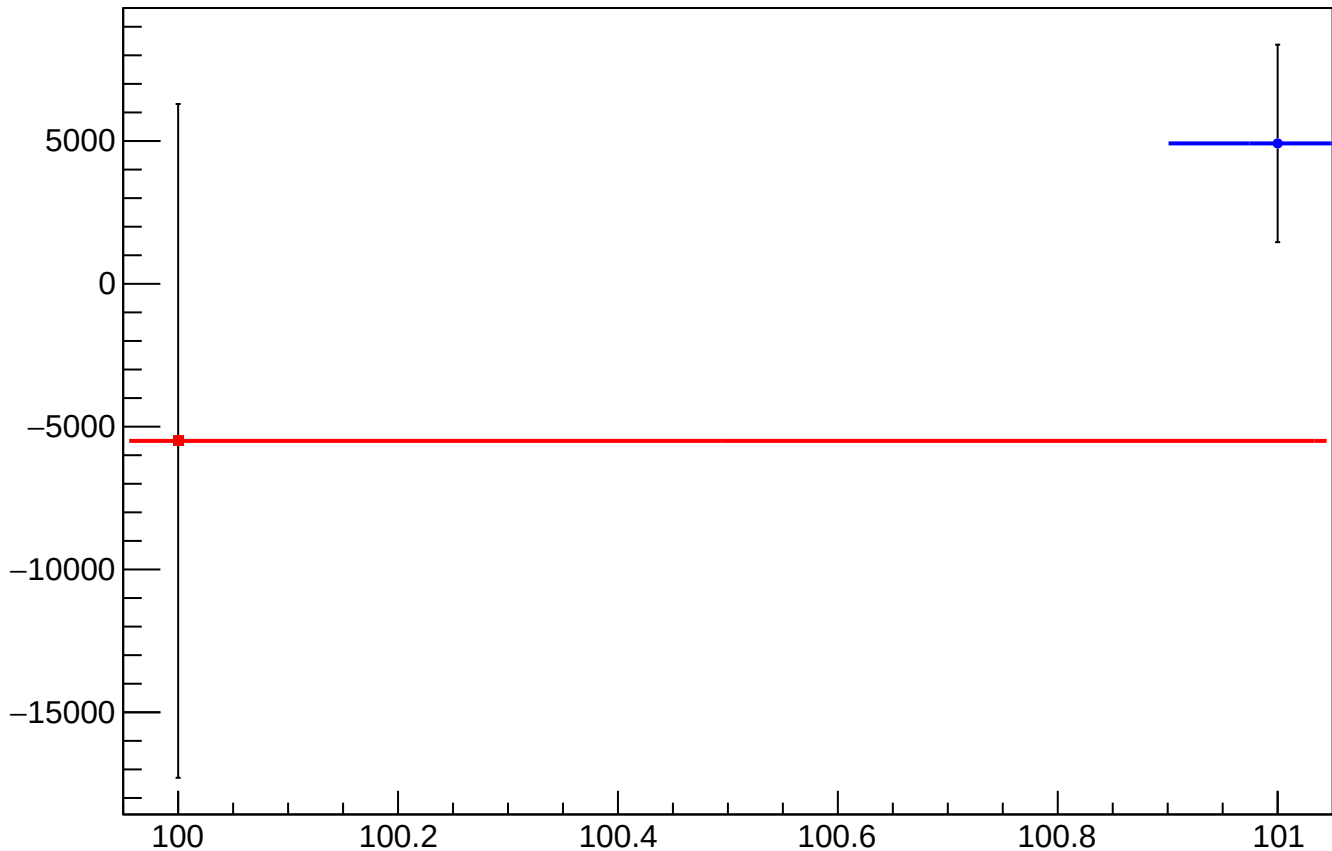
In: 8902.778 $\pm$ 7.774  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8752.358 $\pm$ 7.260  $\chi^2$ /NDF: 2930.2/1



eigen\_cor\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 4916.088+/-3456.781  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5498.873+/-11794.545  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

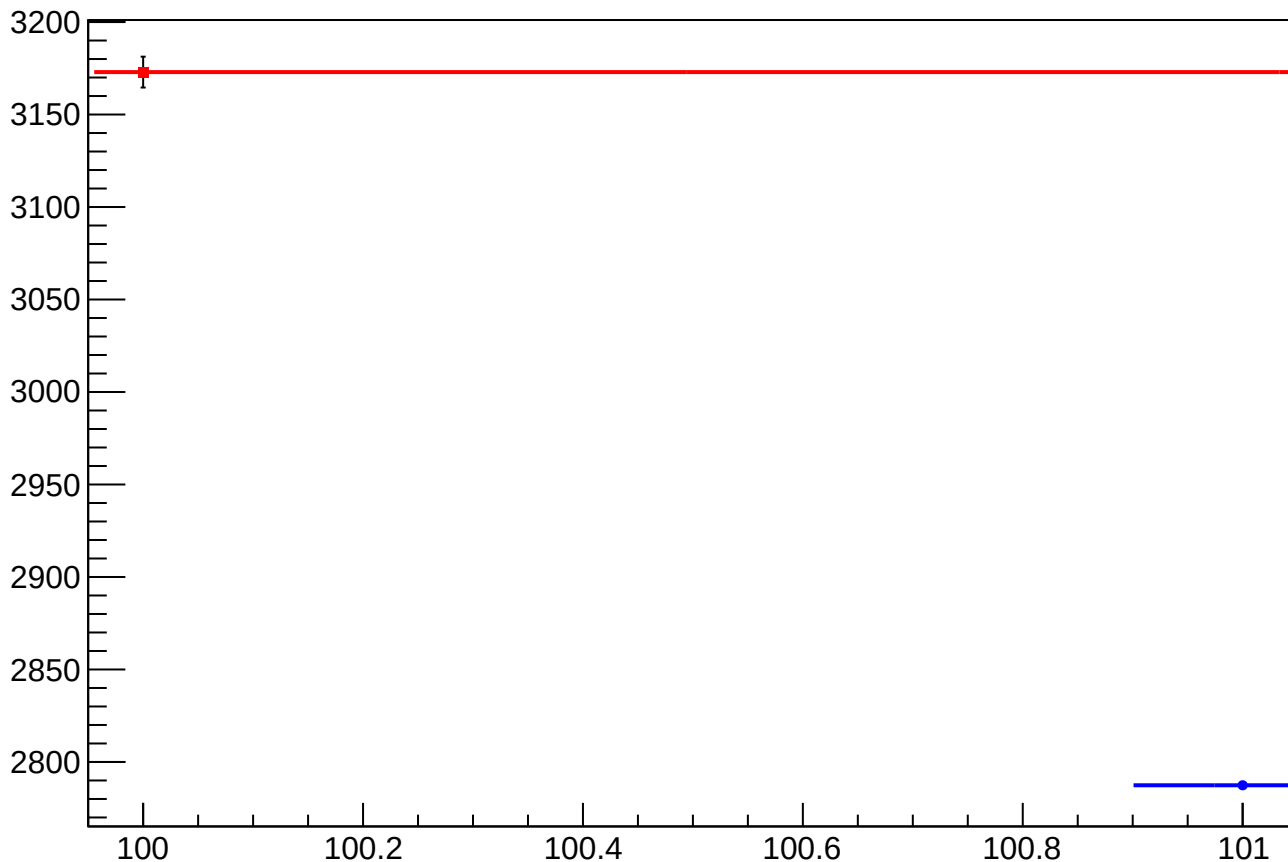
Right: 4092.234+/-3317.244  $\chi^2/\text{NDF}$ : 0.7/1

In: 4916.088+/-3456.781  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4092.234+/-3317.244  $\chi^2/\text{NDF}$ : 0.7/1

eigen\_cor\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 2787.403+/-2.444  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3172.933+/-8.340  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

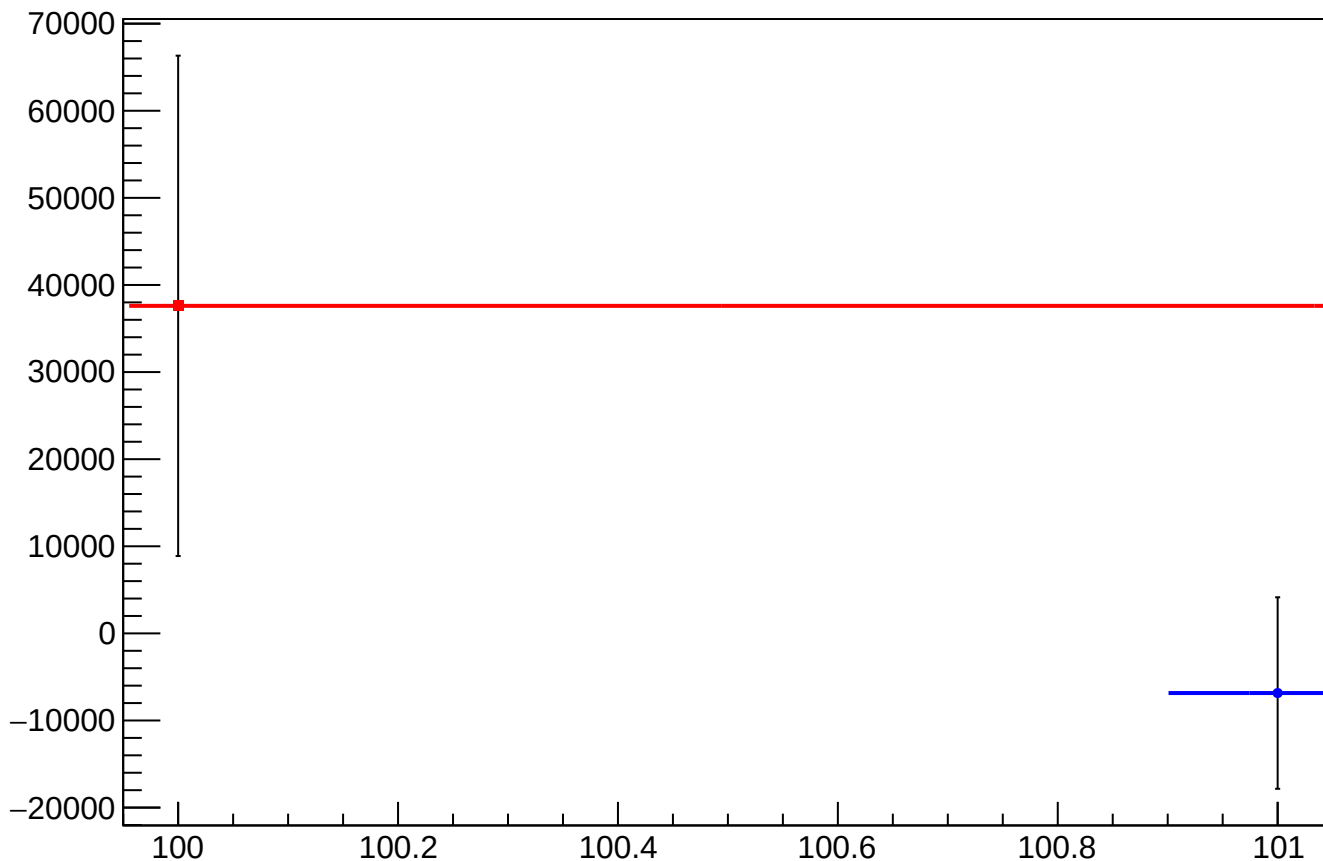
Right: 2817.900+/-2.346  $\chi^2/\text{NDF}$ : 1967.9/1

In: 2787.403+/-2.444  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2817.900+/-2.346  $\chi^2/\text{NDF}$ : 1967.9/1

asym\_atl2\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -6848.677 $\pm$ 10993.578  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37601.705 $\pm$ 28722.337  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

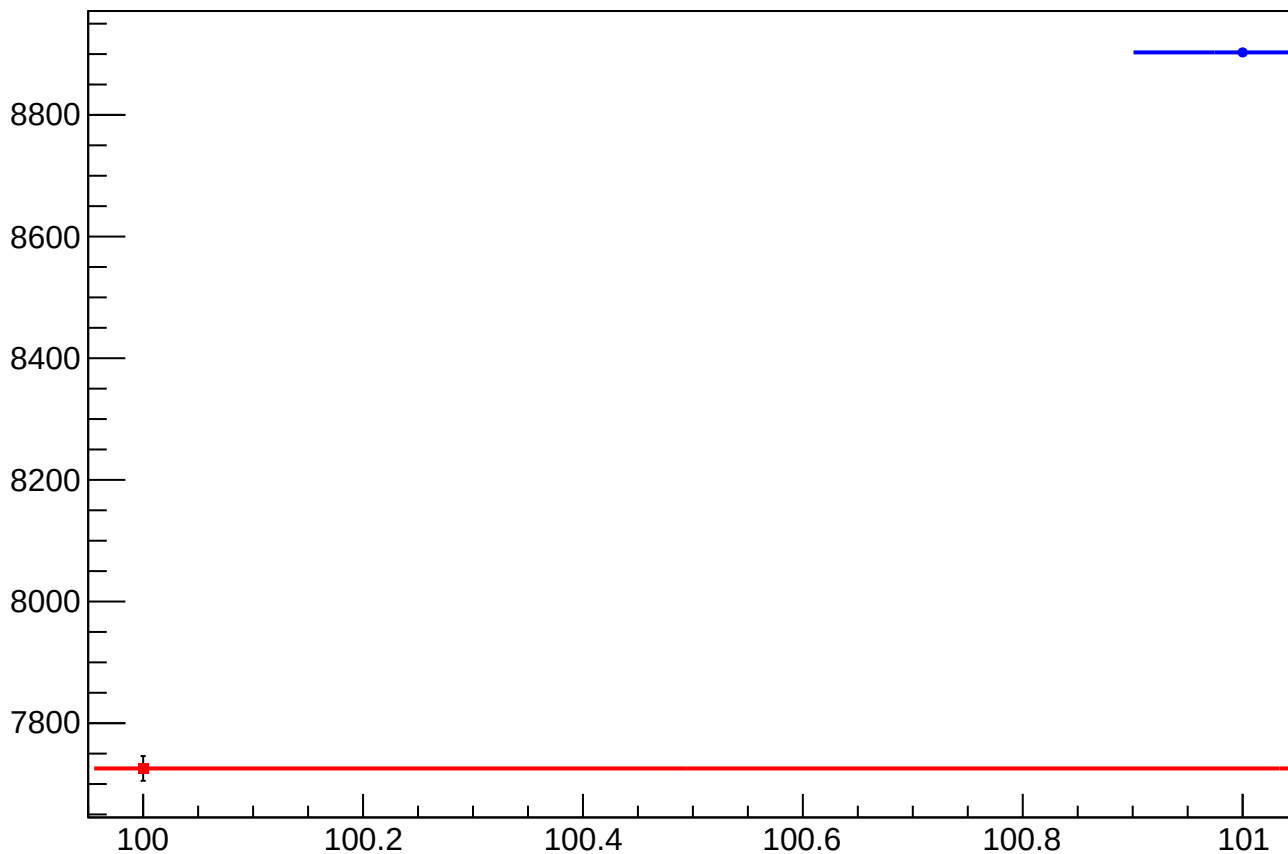
Right: -1168.787 $\pm$ 10267.199  $\chi^2/\text{NDF}$ : 2.1/1

In: -6848.677 $\pm$ 10993.578  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1168.787 $\pm$ 10267.199  $\chi^2/\text{NDF}$ : 2.1/1

asym\_atl2\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 8902.778 +/- 7.774  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7725.600 +/- 20.310  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

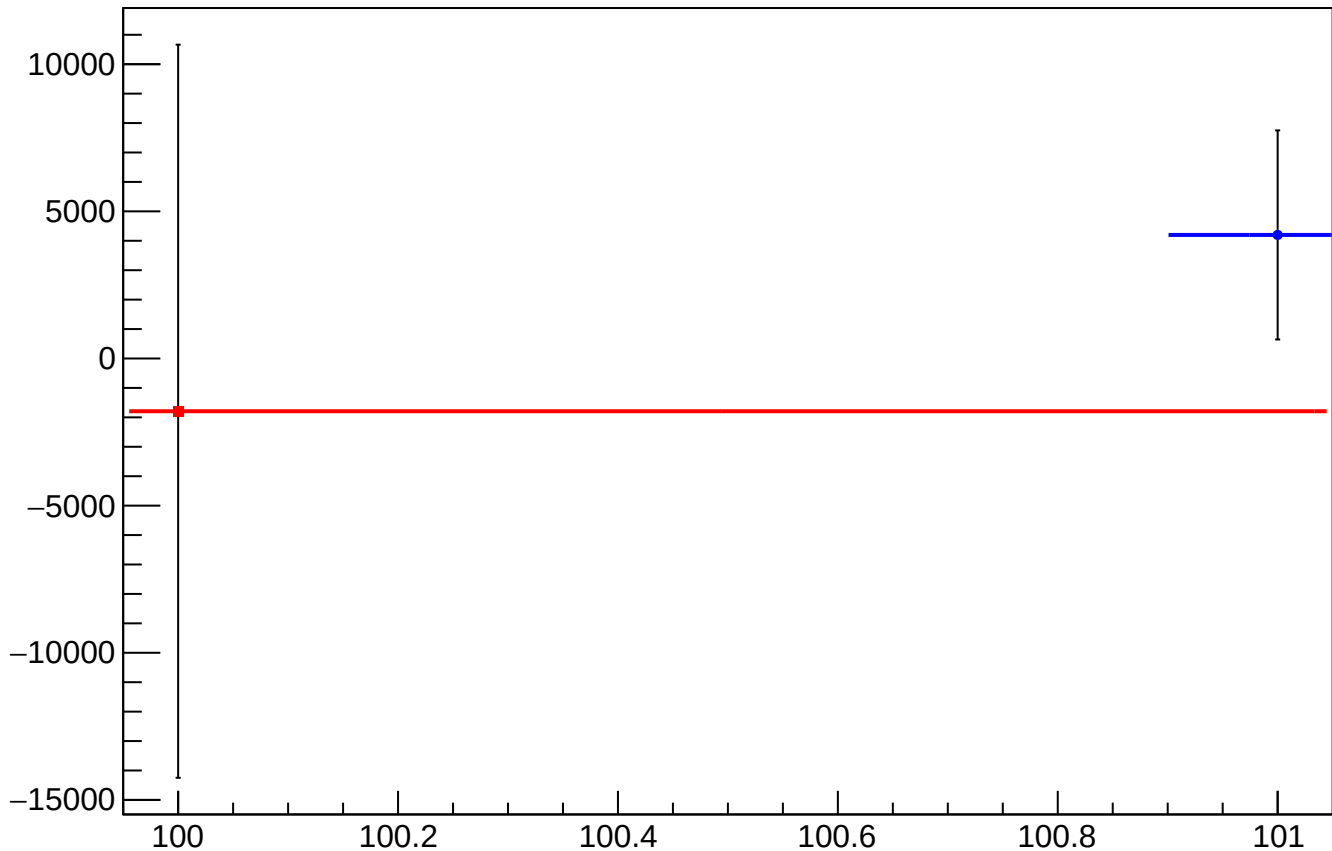
Right: 8752.358 +/- 7.260  $\chi^2/\text{NDF}$ : 2930.2/1

In: 8902.778 +/- 7.774  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8752.358 +/- 7.260  $\chi^2/\text{NDF}$ : 2930.2/1

# dit\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 4198.769+/-3552.315  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1792.238+/-12456.013  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

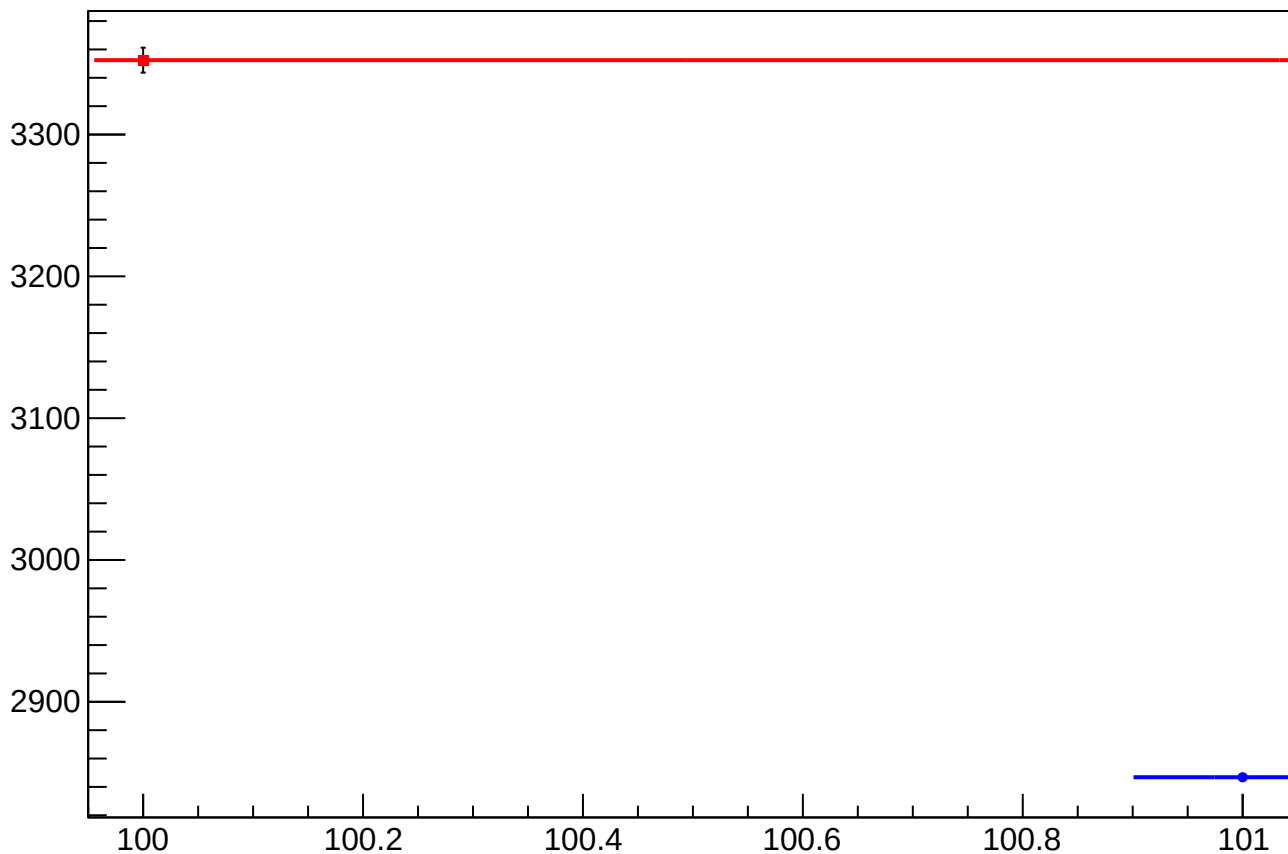
Right: 3748.154+/-3416.110  $\chi^2/\text{NDF}$ : 0.2/1

In: 4198.769+/-3552.315  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3748.154+/-3416.110  $\chi^2/\text{NDF}$ : 0.2/1

# dit\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 2846.816±/-2.512     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000±/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3352.441±/-8.808     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000±/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000±/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

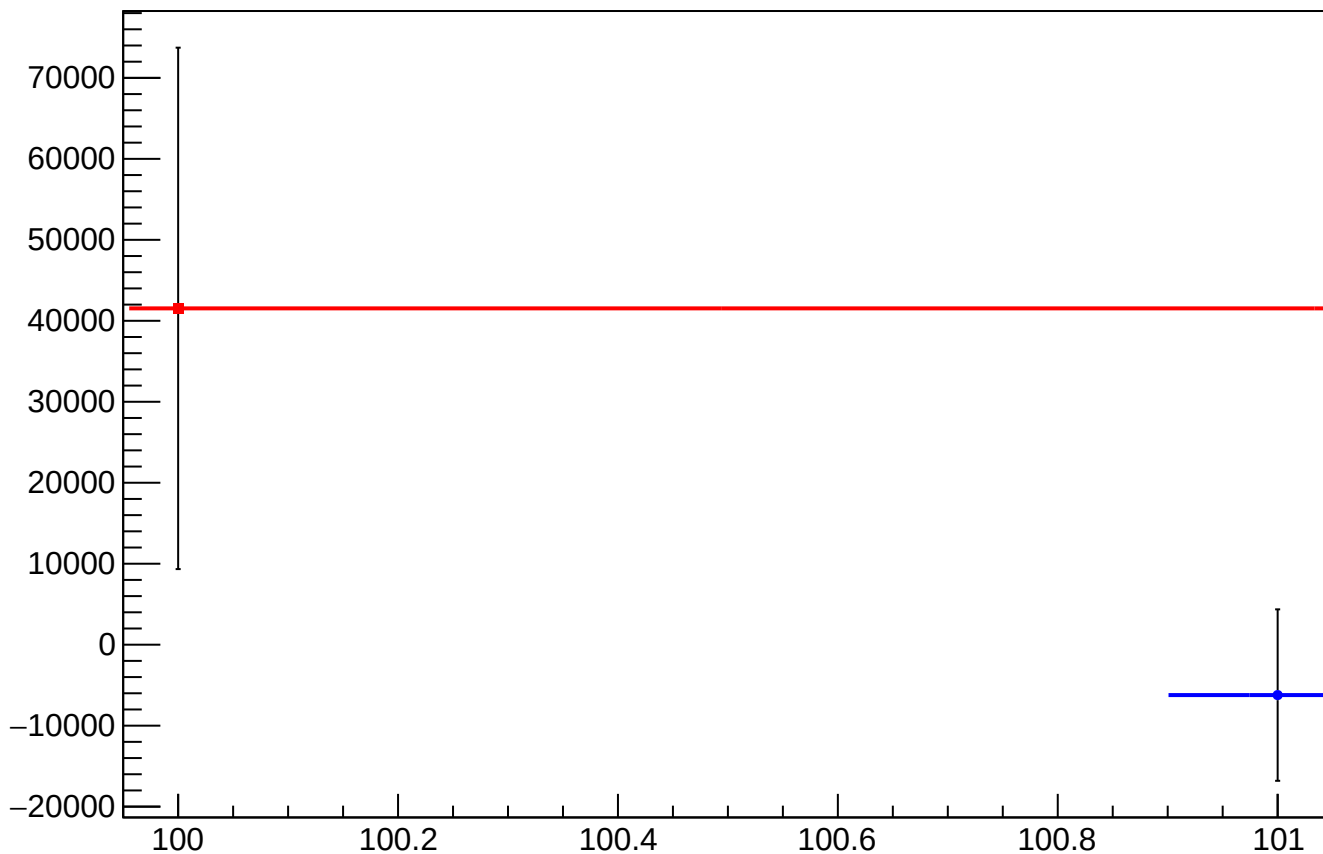
Right: 2884.847±/-2.416     $\chi^2/\text{NDF}$ : 3047.7/1

In: 2846.816±/-2.512     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000±/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 2884.847±/-2.416     $\chi^2/\text{NDF}$ : 3047.7/1

asym\_atl2\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -6222.230+/-10586.912  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 41534.419+/-32197.176  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

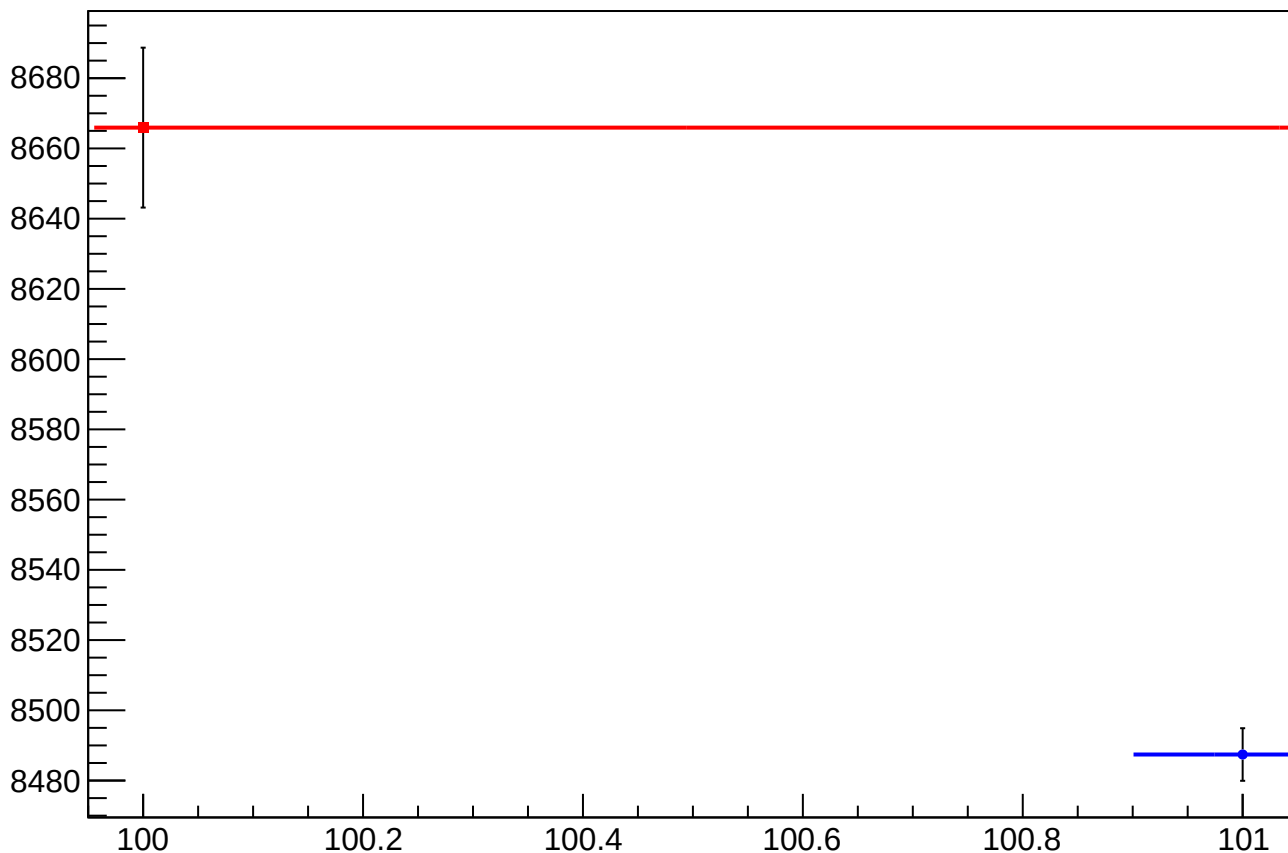
Right: -1562.611+/-10057.176  $\chi^2/\text{NDF}$ : 2.0/1

In: -6222.230+/-10586.912  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1562.611+/-10057.176  $\chi^2/\text{NDF}$ : 2.0/1

asym\_atl2\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 8487.415+/-7.486  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8665.926+/-22.767  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 8504.832+/-7.111  $\chi^2/\text{NDF}$ : 55.5/1

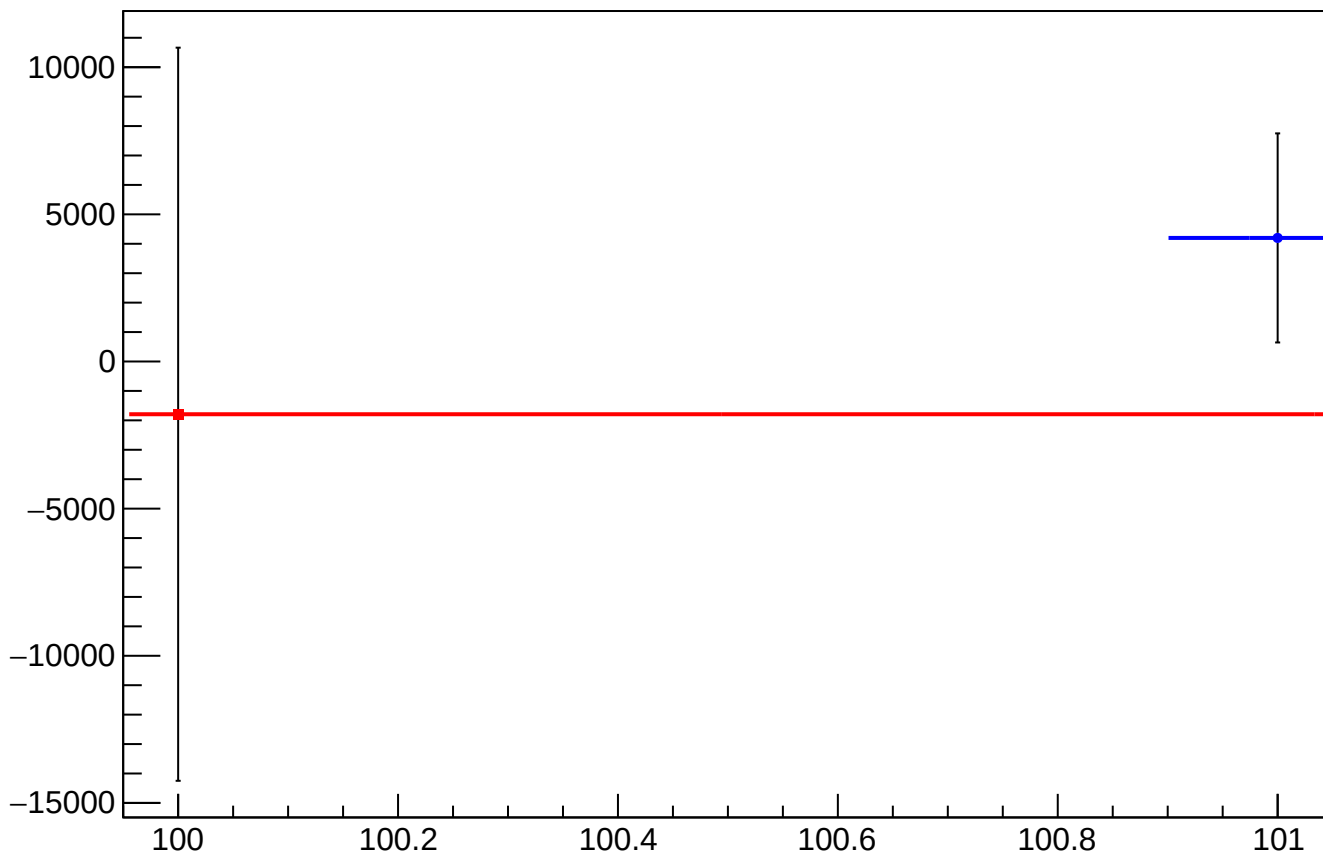
In: 8487.415+/-7.486  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8504.832+/-7.111  $\chi^2/\text{NDF}$ : 55.5/1



eigen\_dit\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 4198.765+/-3552.315  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1792.246+/-12456.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

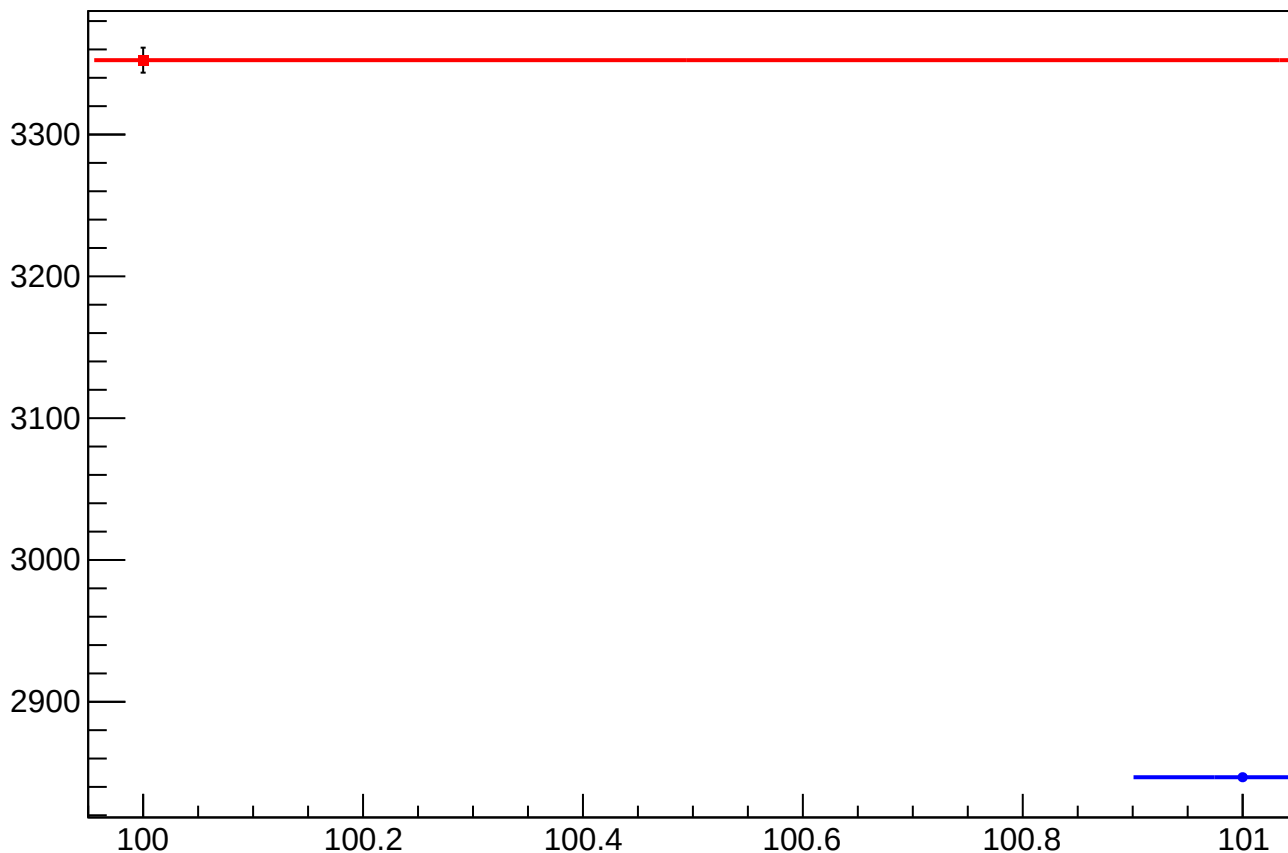
Right: 3748.149+/-3416.109  $\chi^2/\text{NDF}$ : 0.2/1

In: 4198.765+/-3552.315  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3748.149+/-3416.109  $\chi^2/\text{NDF}$ : 0.2/1

# eigen\_dit\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 2846.816 $\pm$ 2.512  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3352.437 $\pm$ 8.808  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

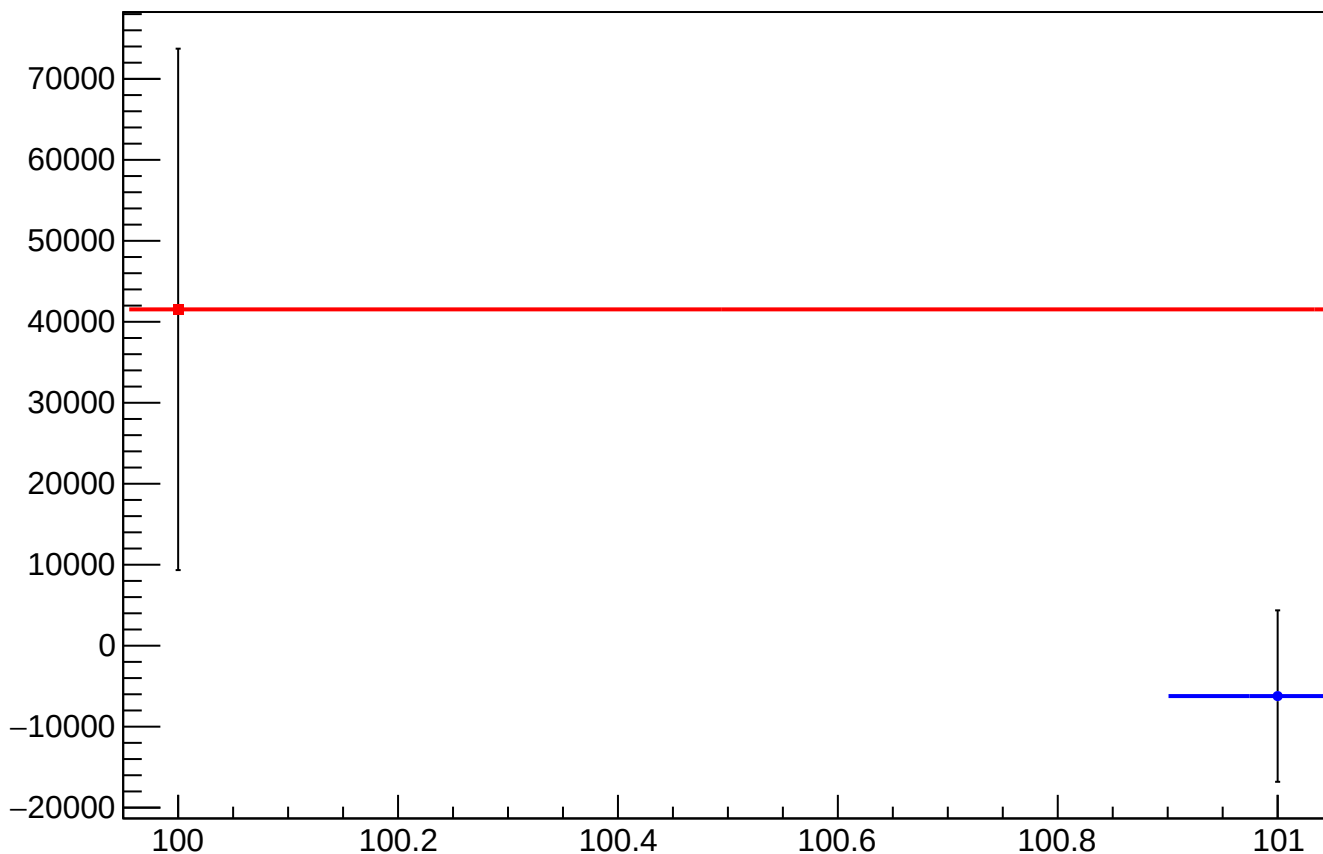
Right: 2884.846 $\pm$ 2.416  $\chi^2$ /NDF: 3047.6/1

In: 2846.816 $\pm$ 2.512  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2884.846 $\pm$ 2.416  $\chi^2$ /NDF: 3047.6/1

asym\_atl2\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -6222.231+/-10586.897  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 41534.399+/-32197.125  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

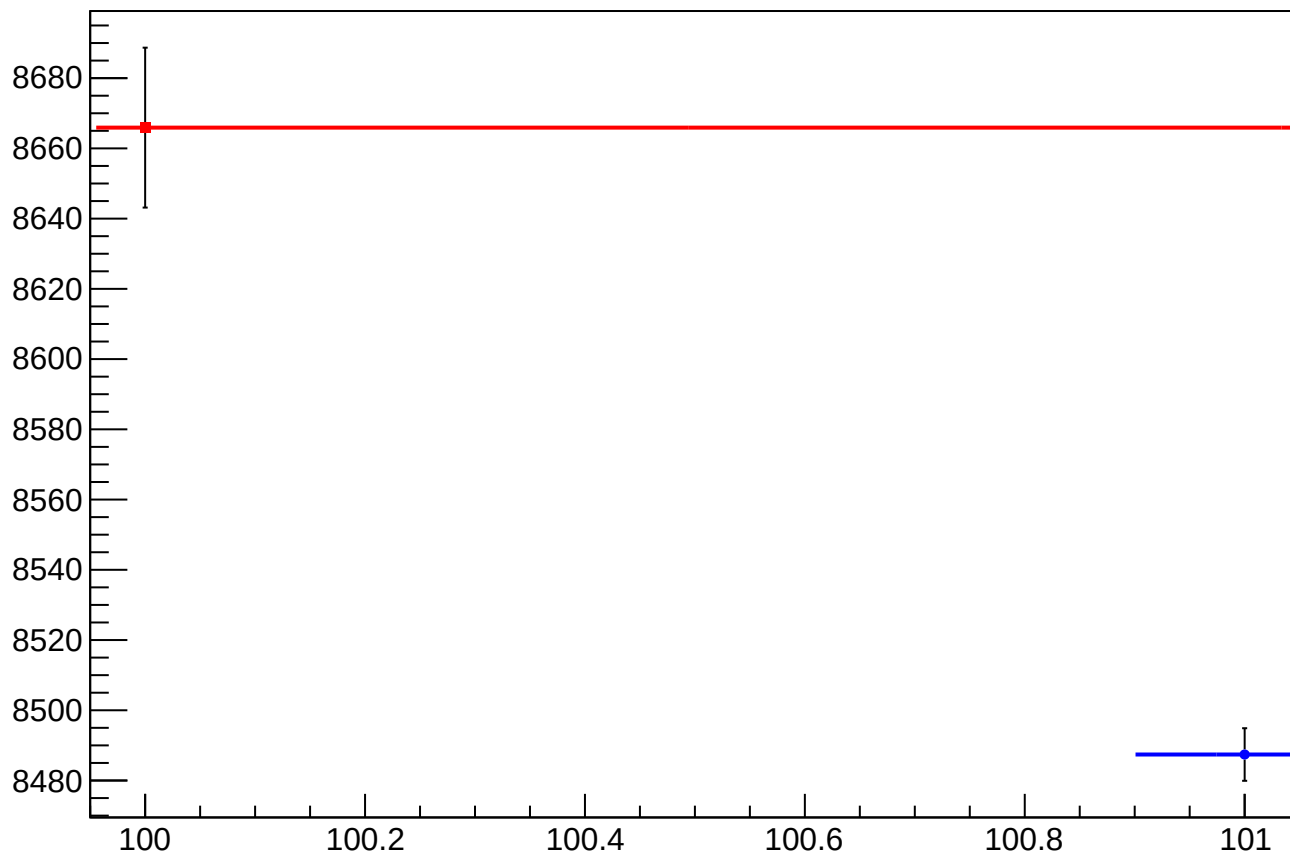
Right: -1562.613+/-10057.161  $\chi^2$ /NDF: 2.0/1

In: -6222.231+/-10586.897  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -1562.613+/-10057.161  $\chi^2$ /NDF: 2.0/1

asym\_atl2\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 8487.404 $\pm$ 7.486  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 8665.912 $\pm$ 22.767  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

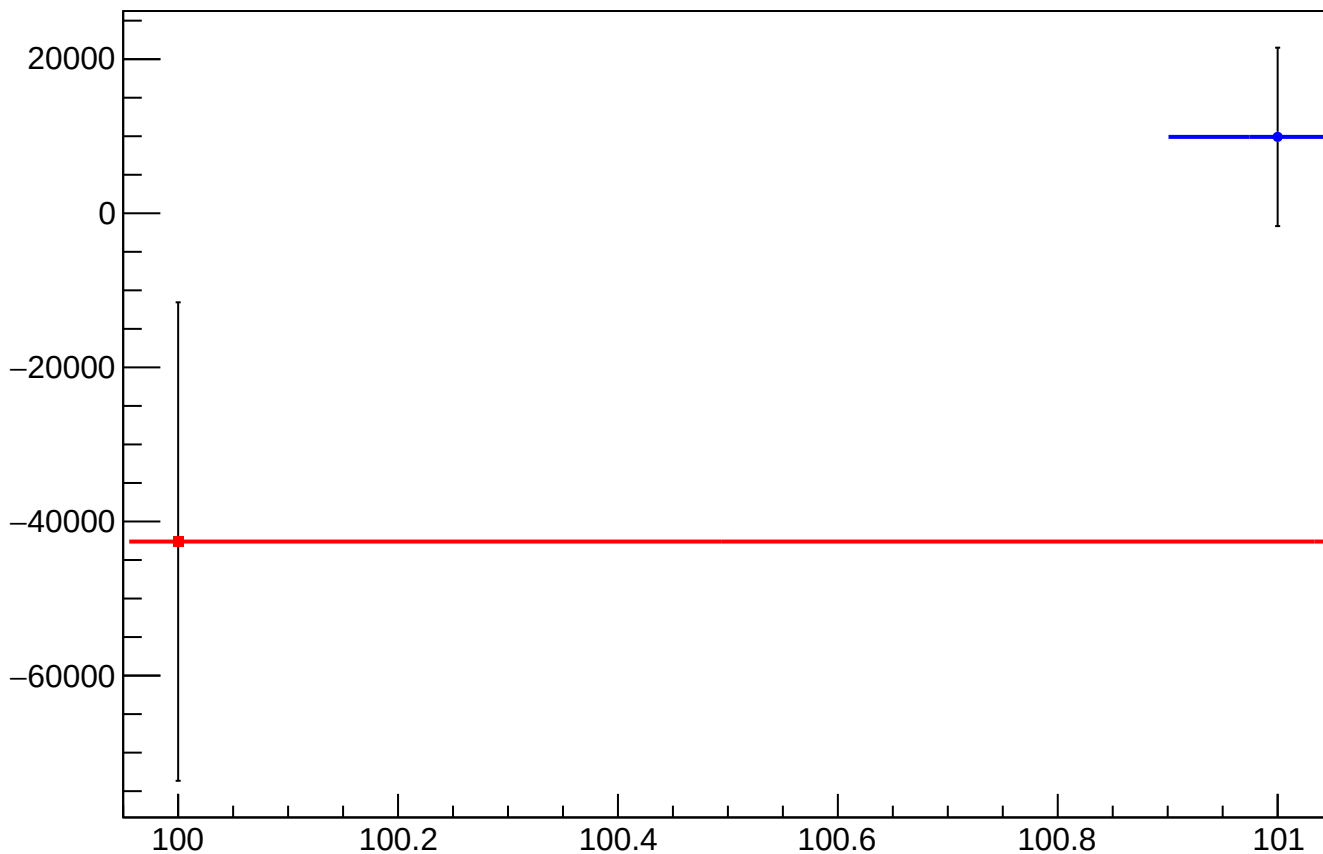
Right: 8504.821 $\pm$ 7.111  $\chi^2$ /NDF: 55.5/1

In: 8487.404 $\pm$ 7.486  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 8504.821 $\pm$ 7.111  $\chi^2$ /NDF: 55.5/1

asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 9916.227+/-11578.624  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -42604.011+/-31050.767  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

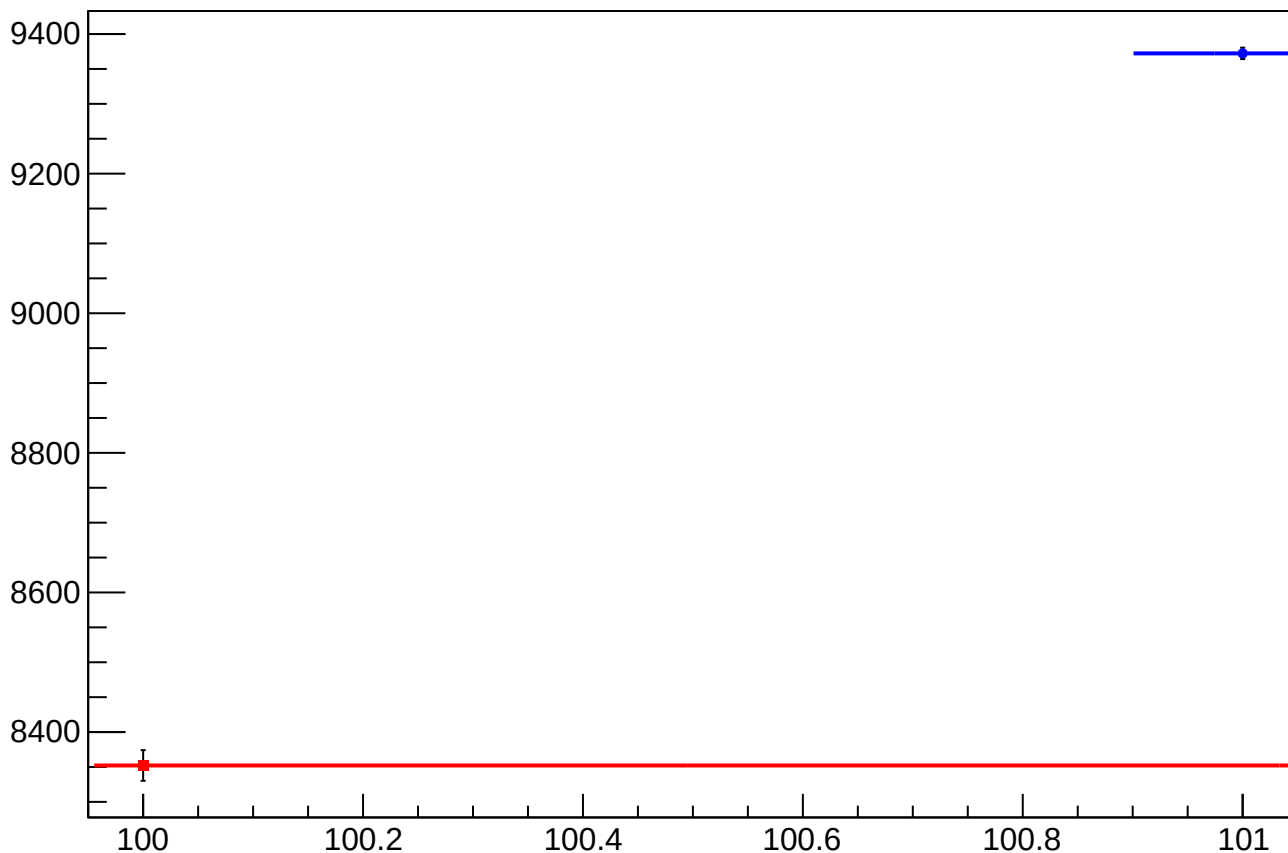
Right: 3504.820+/-10848.899  $\chi^2/\text{NDF}$ : 2.5/1

In: 9916.227+/-11578.624  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3504.820+/-10848.899  $\chi^2/\text{NDF}$ : 2.5/1

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 9372.290 $\pm$ 8.187  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8352.148 $\pm$ 21.956  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

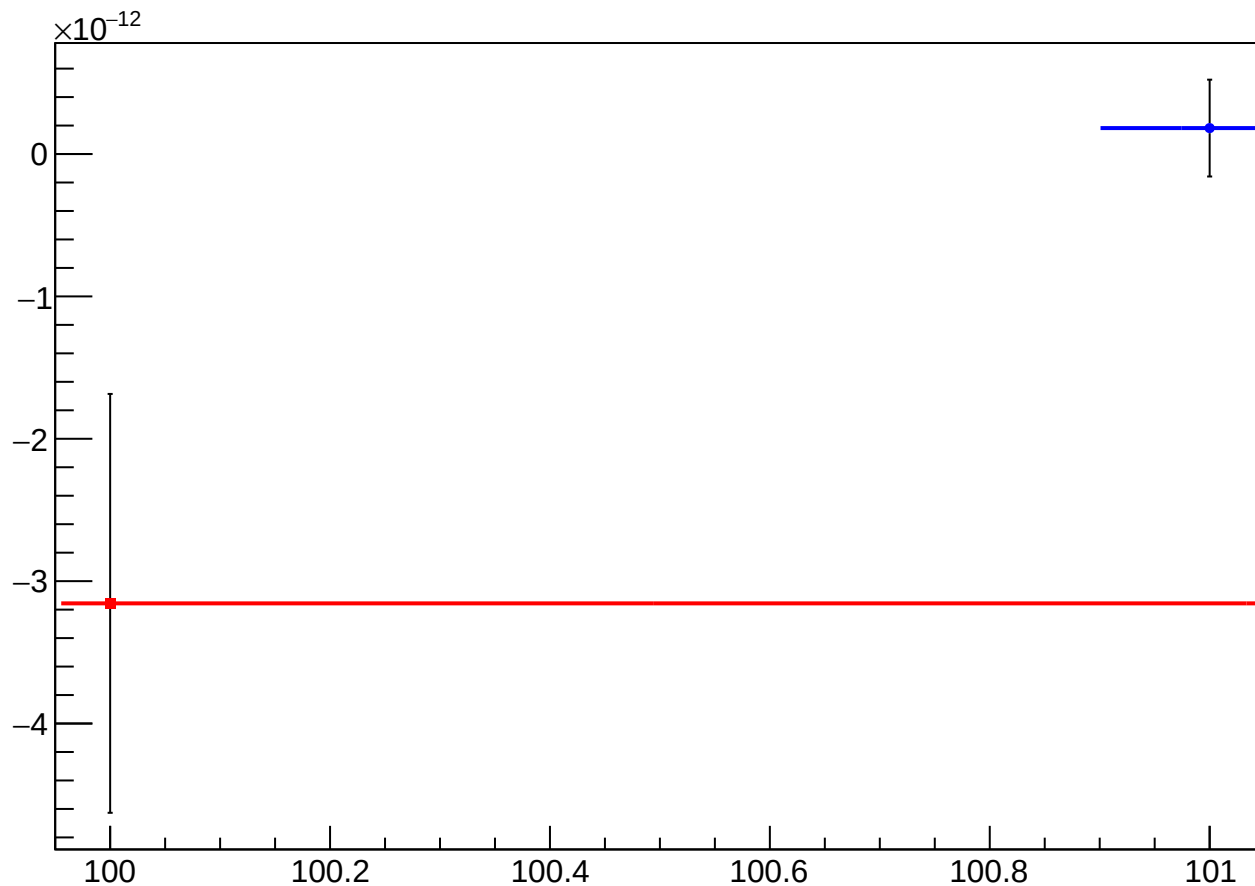
Right: 9247.756 $\pm$ 7.671  $\chi^2$ /NDF: 1895.2/1

In: 9372.290 $\pm$ 8.187  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9247.756 $\pm$ 7.671  $\chi^2$ /NDF: 1895.2/1

asym\_atl2\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

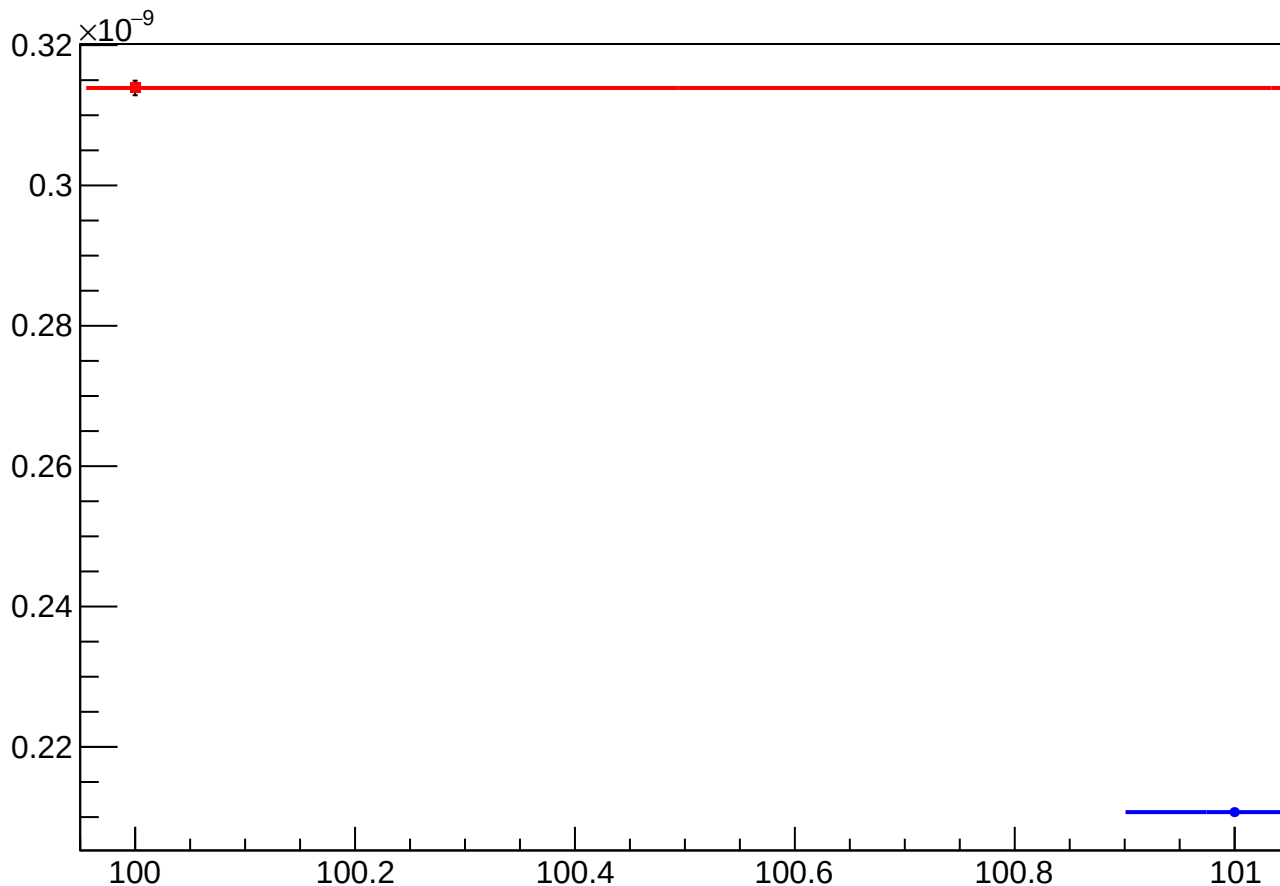
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.9/1

asym\_atl2\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9340.1/1

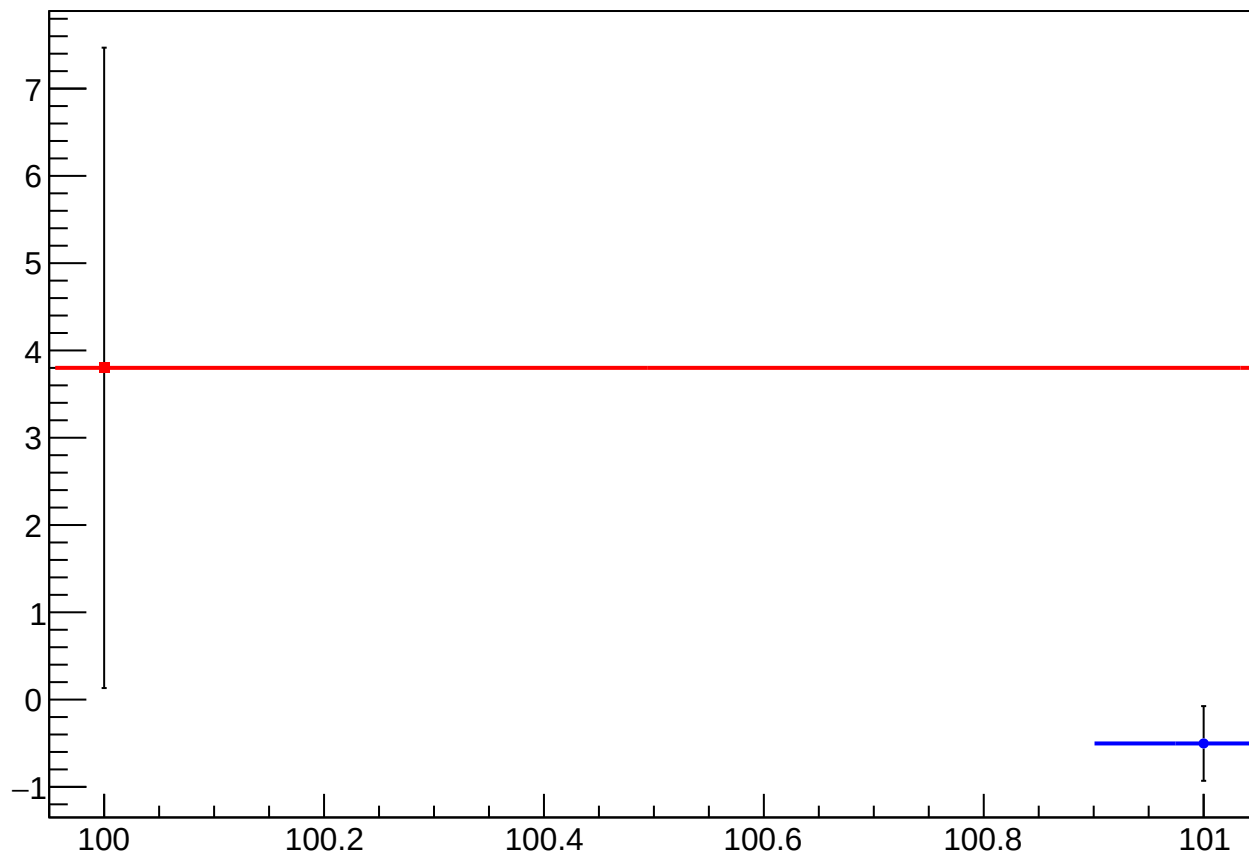
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9340.1/1



asym\_atl2\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.503+/-0.428  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.801+/-3.668  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

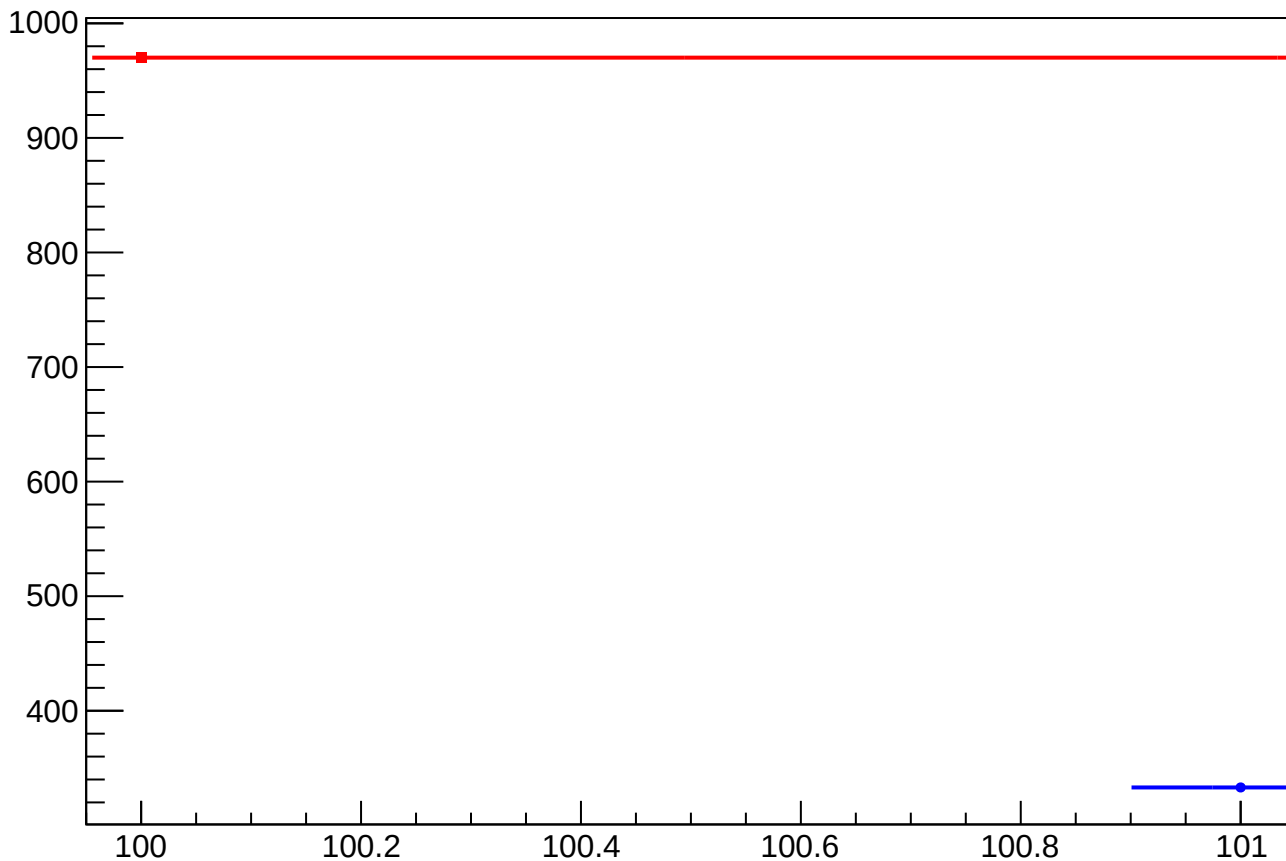
Right: -0.445+/-0.425  $\chi^2/\text{NDF}$ : 1.4/1

In: -0.503+/-0.428  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.445+/-0.425  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atl2\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 333.058 $\pm$ 0.303  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 970.057 $\pm$ 2.594  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

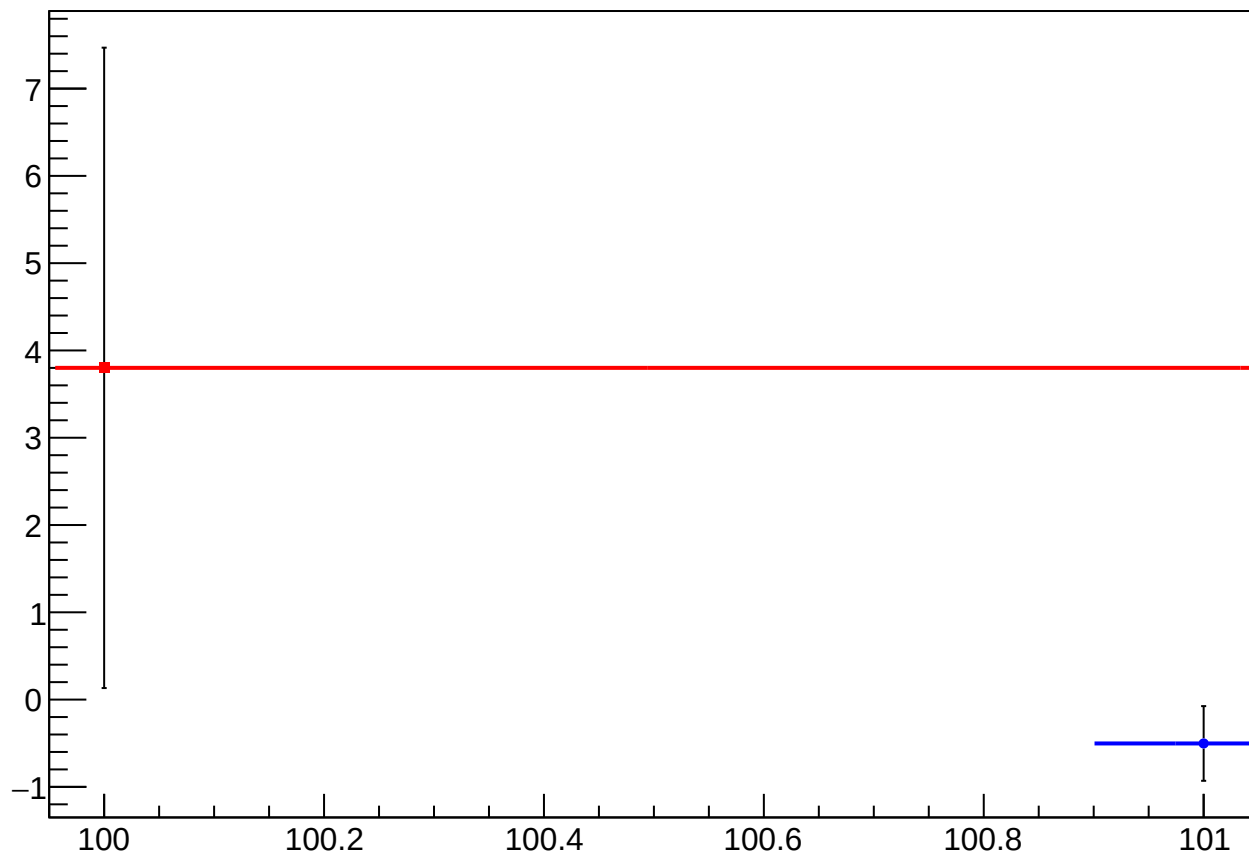
Right: 341.605 $\pm$ 0.300  $\chi^2$ /NDF: 59496.8/1

In: 333.058 $\pm$ 0.303  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 341.605 $\pm$ 0.300  $\chi^2$ /NDF: 59496.8/1

asym\_atl2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.503+/-0.428  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.801+/-3.668  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

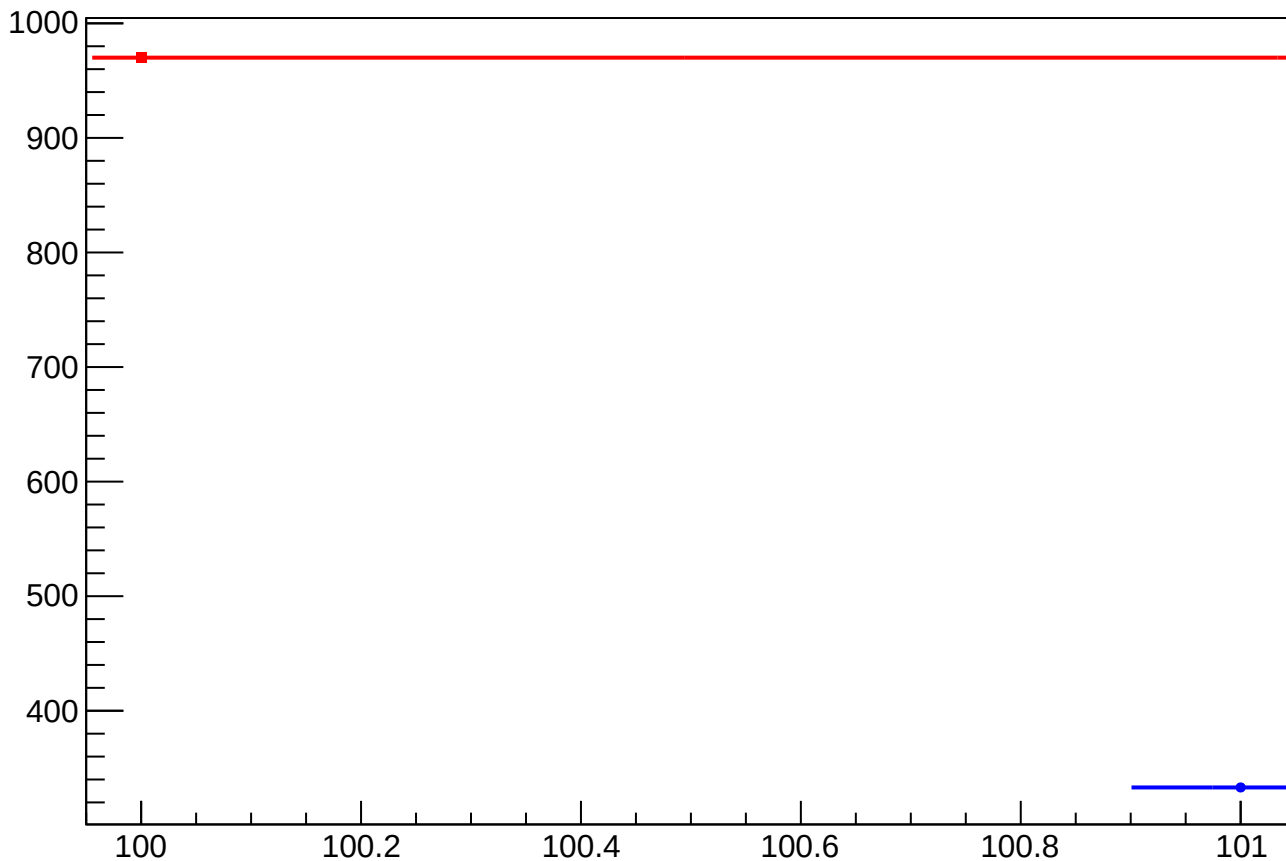
Right: -0.445+/-0.425  $\chi^2/\text{NDF}$ : 1.4/1

In: -0.503+/-0.428  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.445+/-0.425  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atl2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 333.058 $\pm$ 0.303  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 970.057 $\pm$ 2.594  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

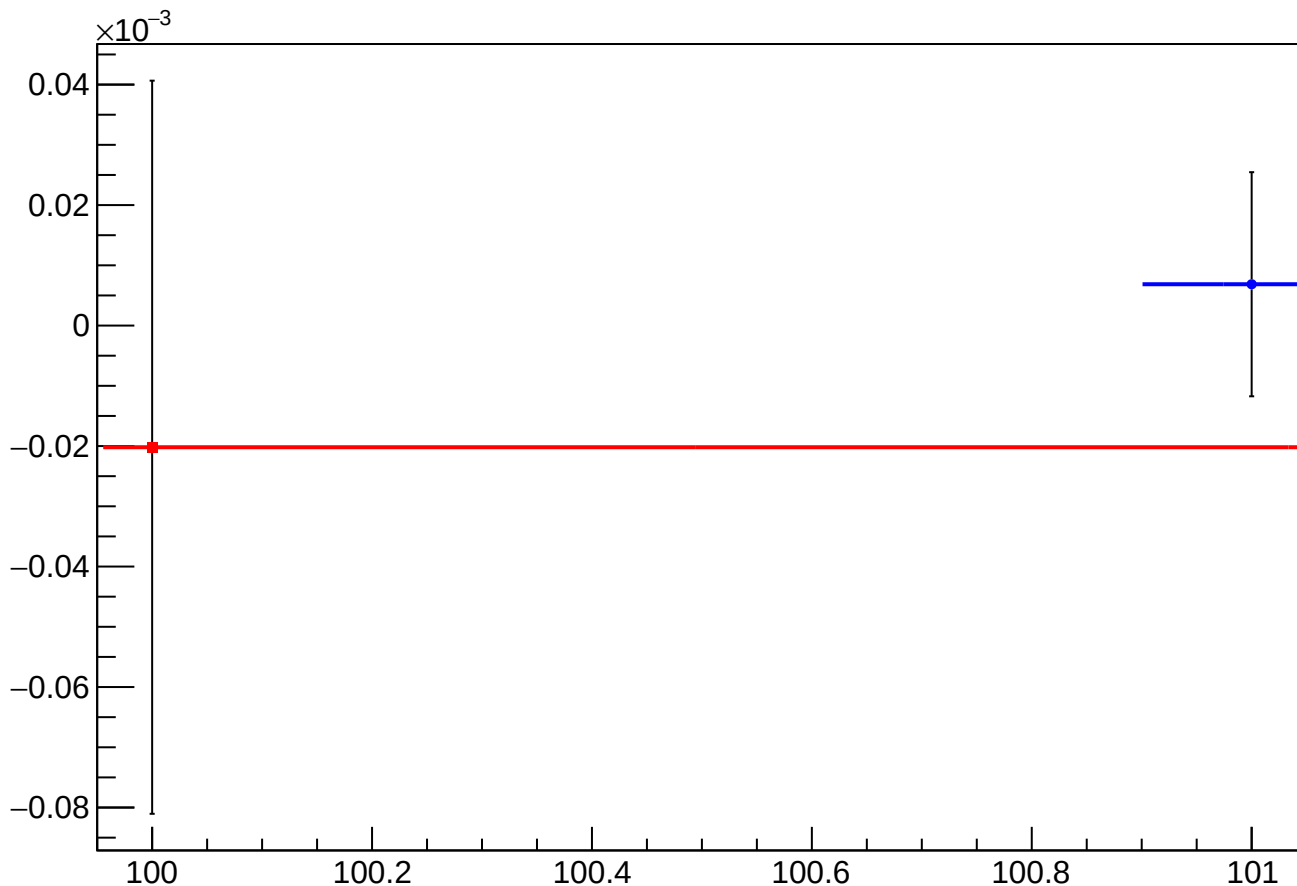
Right: 341.605 $\pm$ 0.300  $\chi^2$ /NDF: 59496.8/1

In: 333.058 $\pm$ 0.303  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 341.605 $\pm$ 0.300  $\chi^2$ /NDF: 59496.8/1

asym\_atl2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

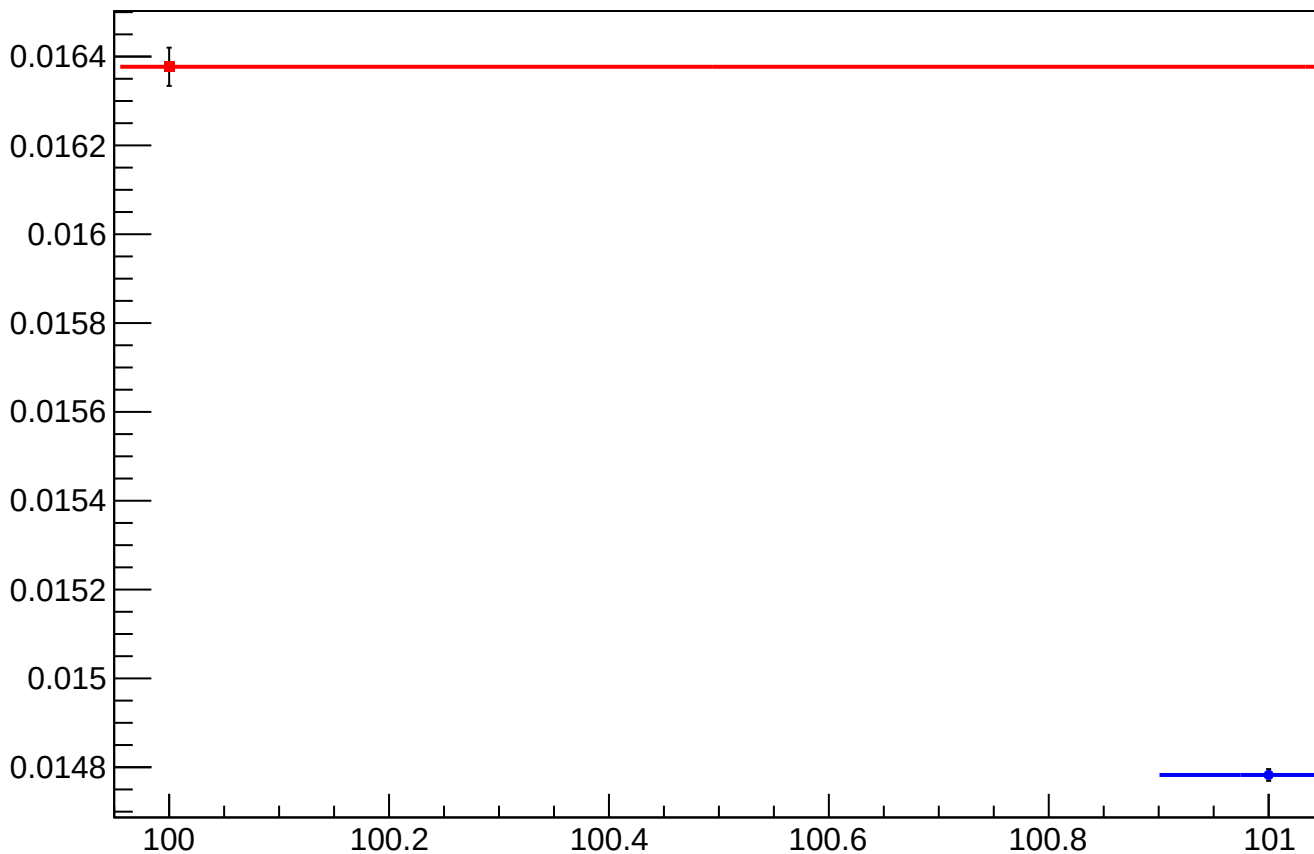
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.2/1

In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 0.2/1

asym\_atl2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

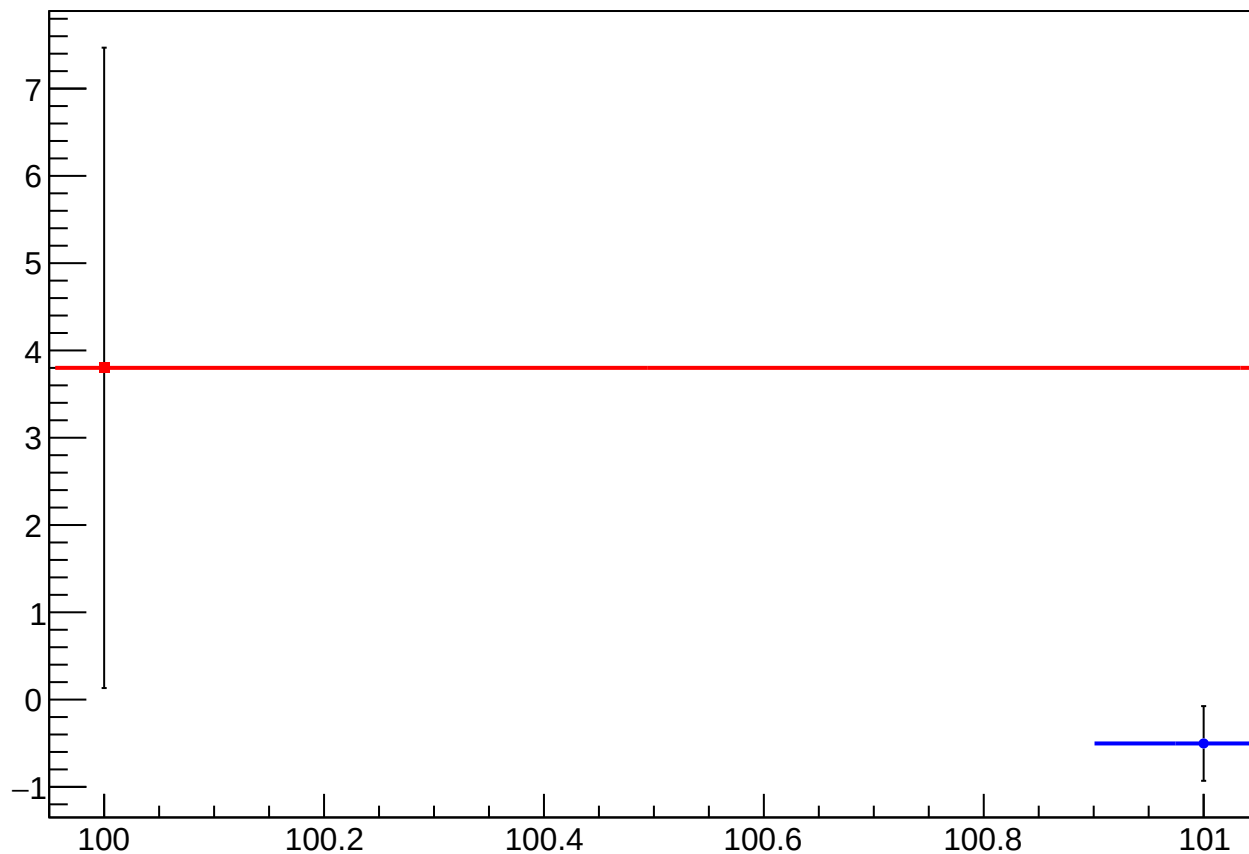
Right: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1255.9/1

In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1255.9/1

asym\_atl2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.503+/-0.428  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.801+/-3.668  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

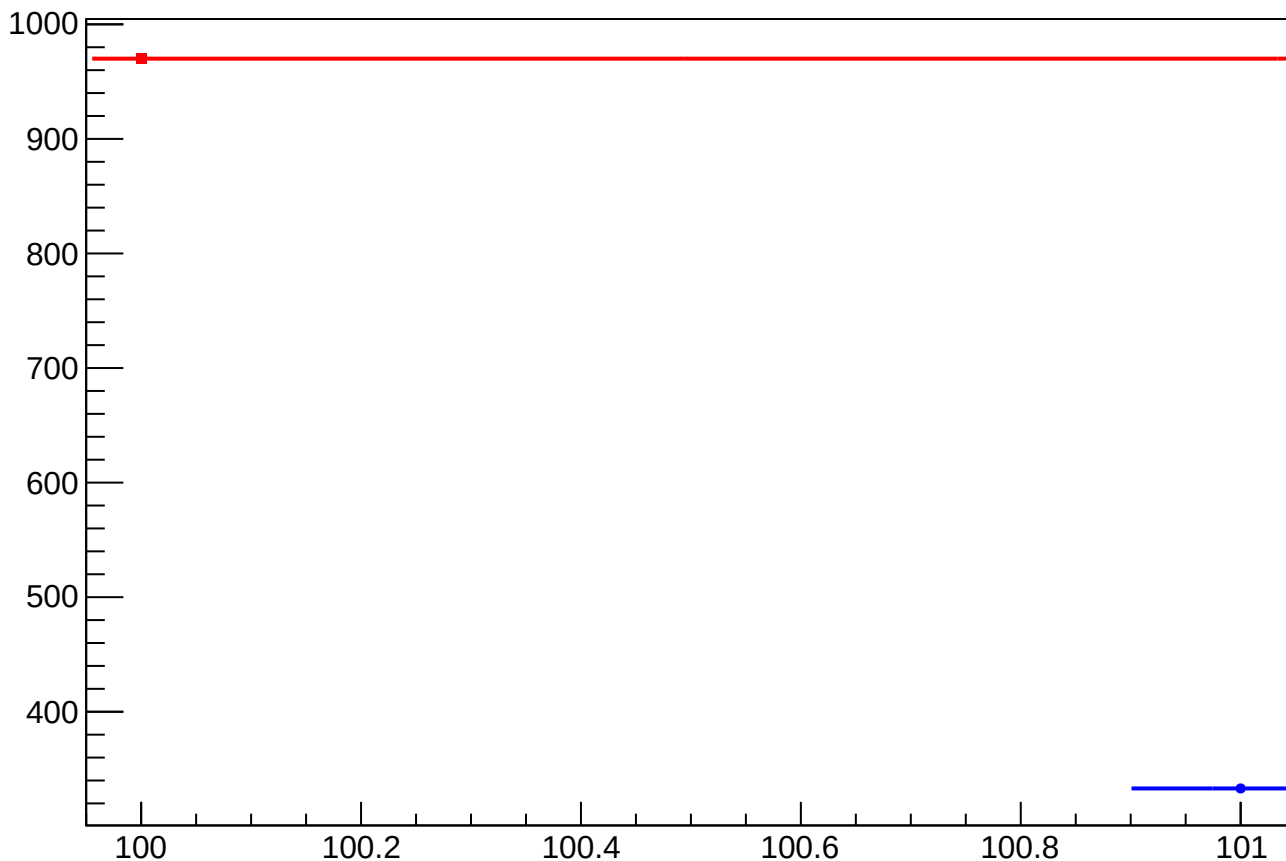
Right: -0.445+/-0.425  $\chi^2/\text{NDF}$ : 1.4/1

In: -0.503+/-0.428  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.445+/-0.425  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atl2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 333.051 $\pm$ 0.303  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 970.047 $\pm$ 2.594  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 341.599 $\pm$ 0.300  $\chi^2$ /NDF: 59497.4/1

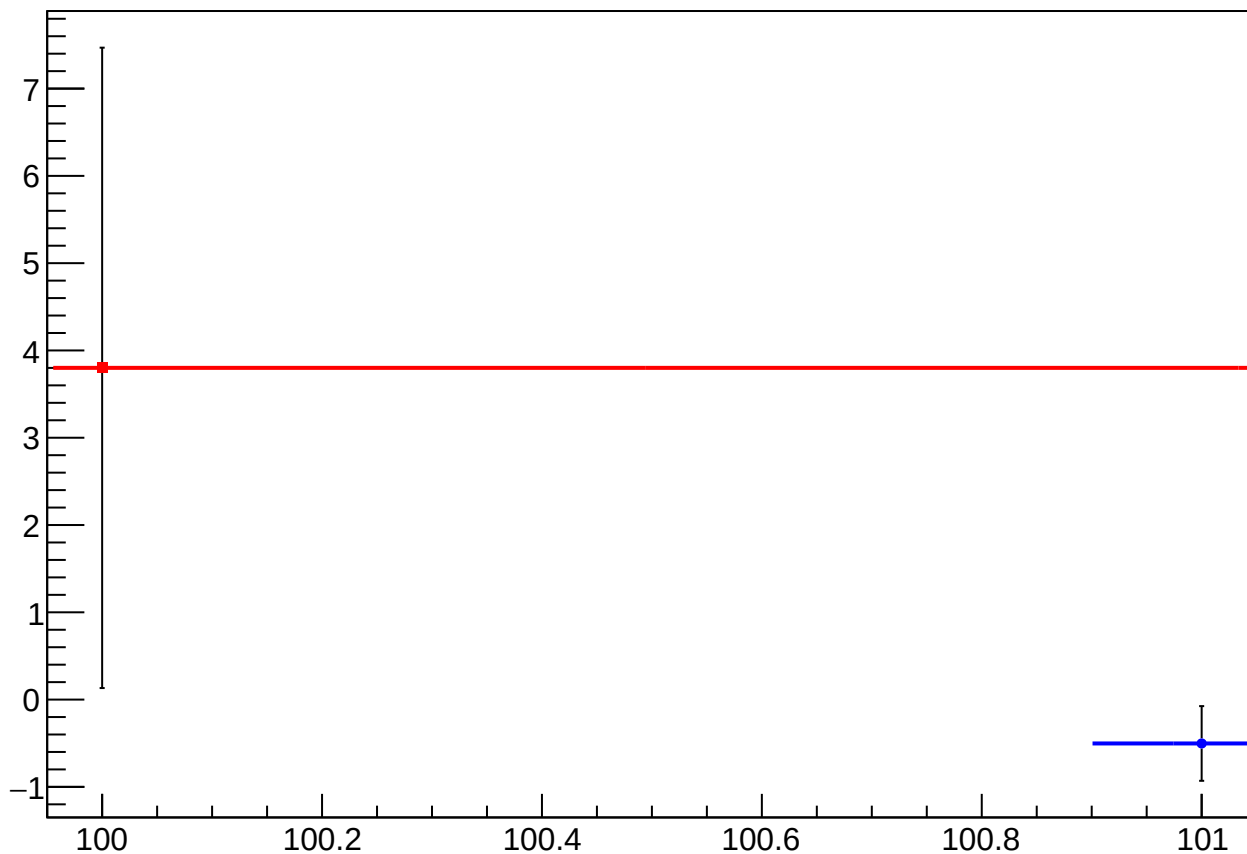
In: 333.051 $\pm$ 0.303  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 341.599 $\pm$ 0.300  $\chi^2$ /NDF: 59497.4/1



asym\_atl2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.503+/-0.428  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.801+/-3.668  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

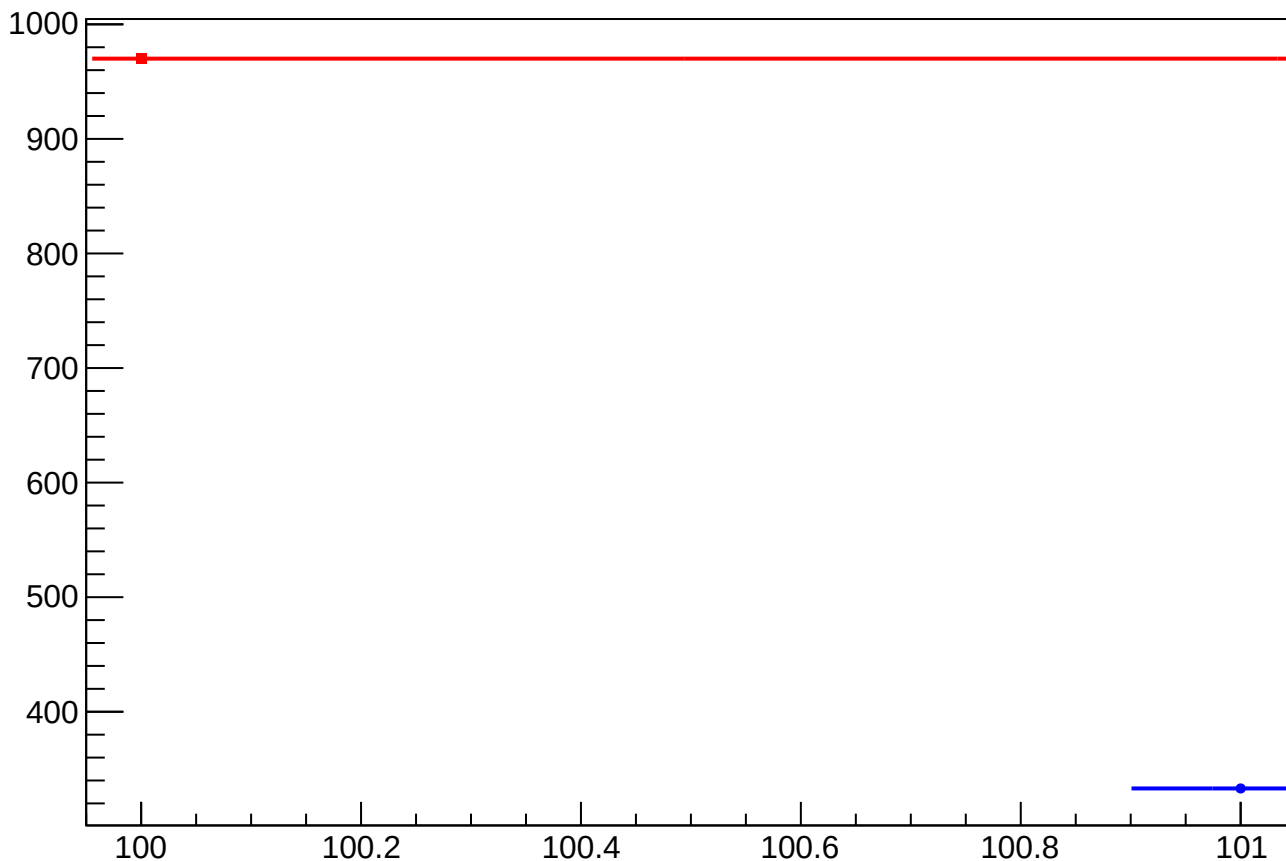
Right: -0.445+/-0.425  $\chi^2/\text{NDF}$ : 1.4/1

In: -0.503+/-0.428  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.445+/-0.425  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atl2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 333.051 $\pm$ 0.303  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 970.047 $\pm$ 2.594  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

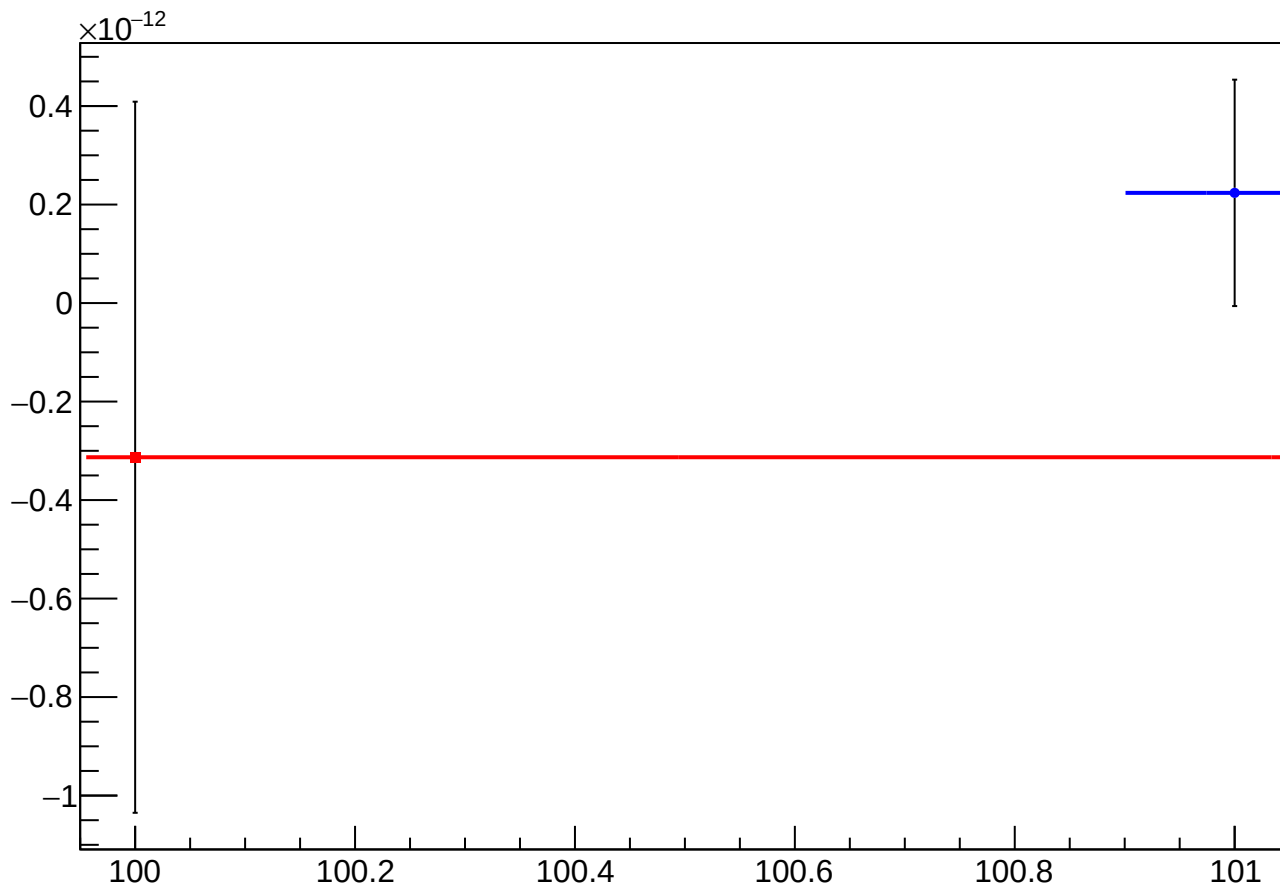
Right: 341.599 $\pm$ 0.300  $\chi^2$ /NDF: 59497.4/1

In: 333.051 $\pm$ 0.303  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 341.599 $\pm$ 0.300  $\chi^2$ /NDF: 59497.4/1

asym\_atl2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

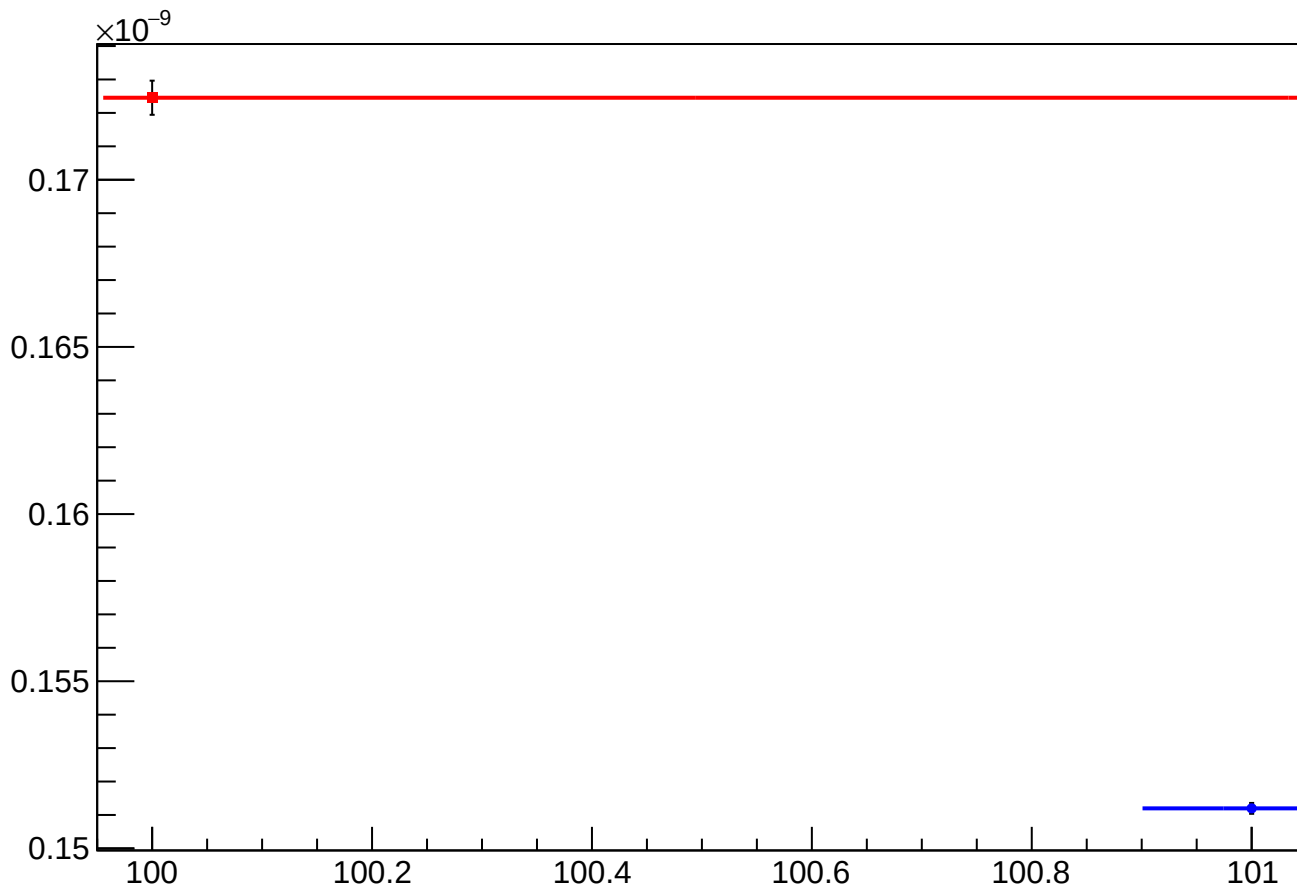
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atl2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

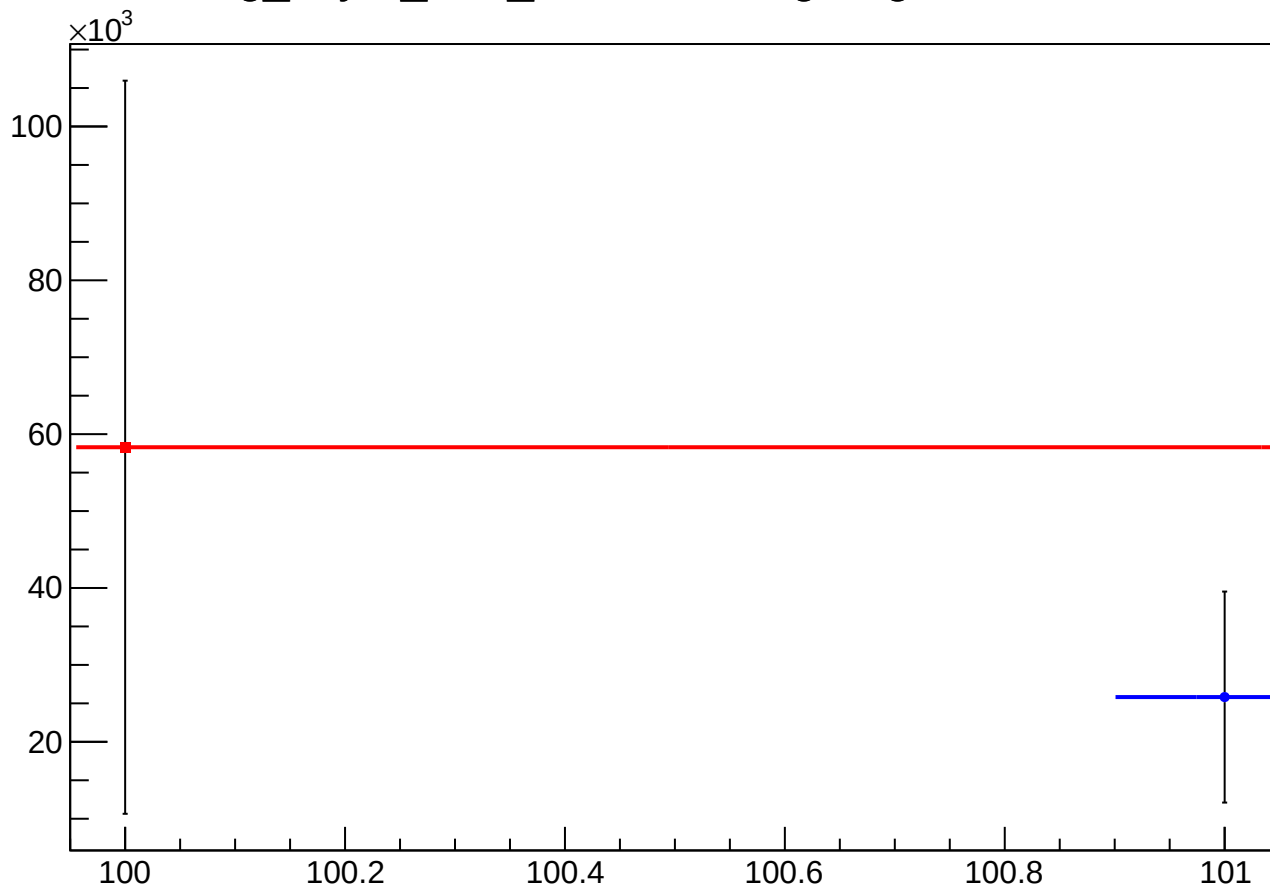
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1574.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1574.3/1

# reg\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 25818.336+/-13716.299  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 58298.943+/-47656.396  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

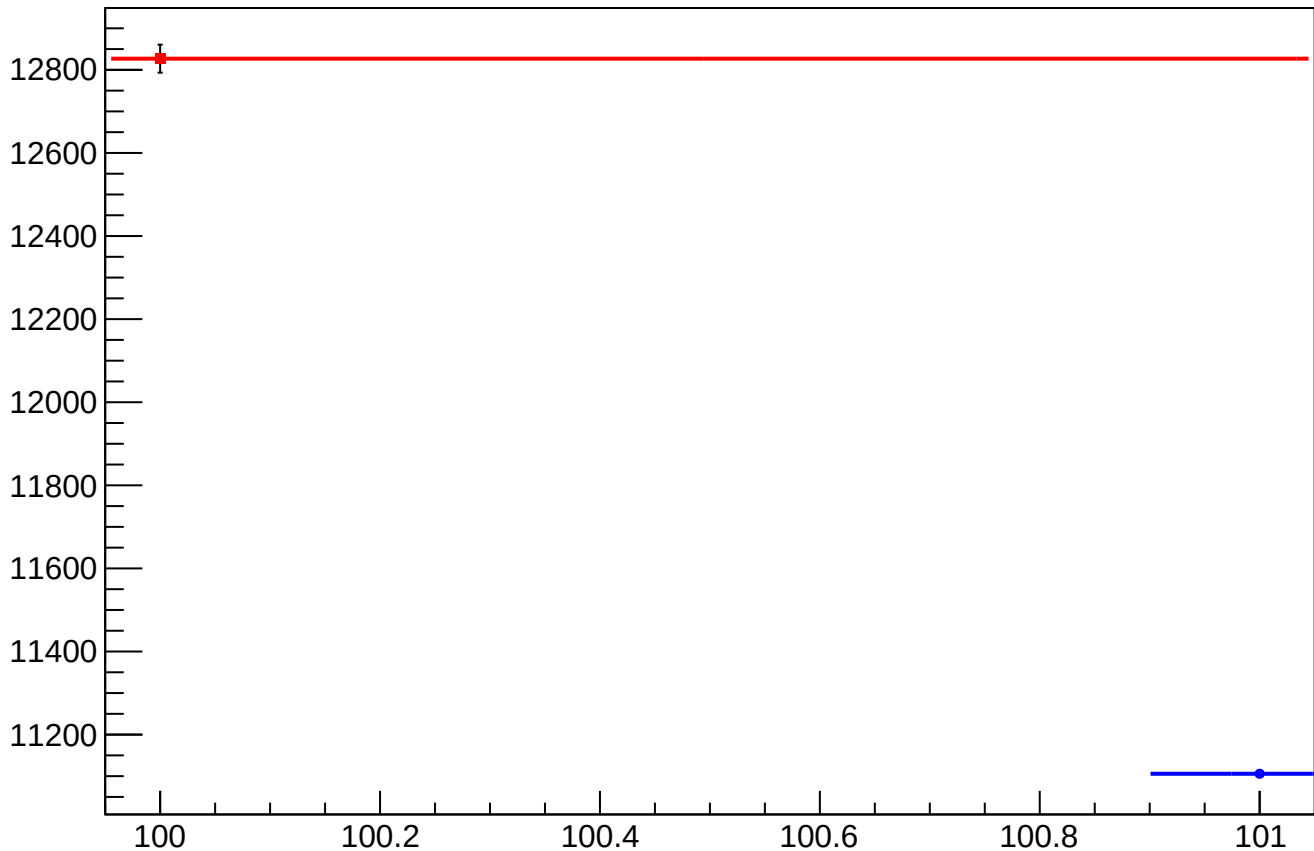
Right: 28303.139+/-13181.205  $\chi^2/\text{NDF}$ : 0.4/1

In: 25818.336+/-13716.299  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28303.139+/-13181.205  $\chi^2/\text{NDF}$ : 0.4/1

# reg\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 11105.739+/-9.699  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12826.908+/-33.698  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

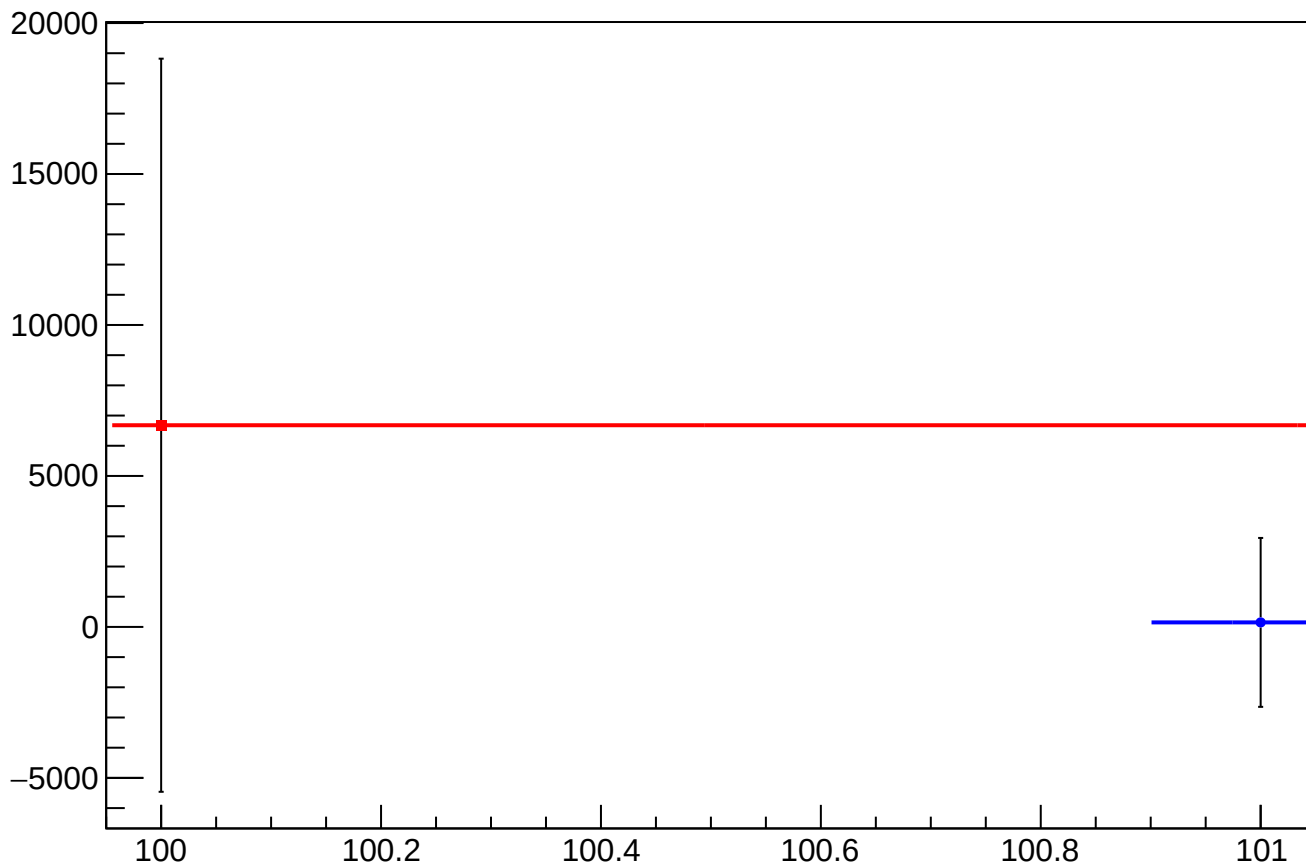
Right: 11237.410+/-9.321  $\chi^2/\text{NDF}$ : 2409.2/1

In: 11105.739+/-9.699  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11237.410+/-9.321  $\chi^2/\text{NDF}$ : 2409.2/1

asym\_atr1\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 149.918 $\pm$ 2796.964  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6679.554 $\pm$ 12140.011  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

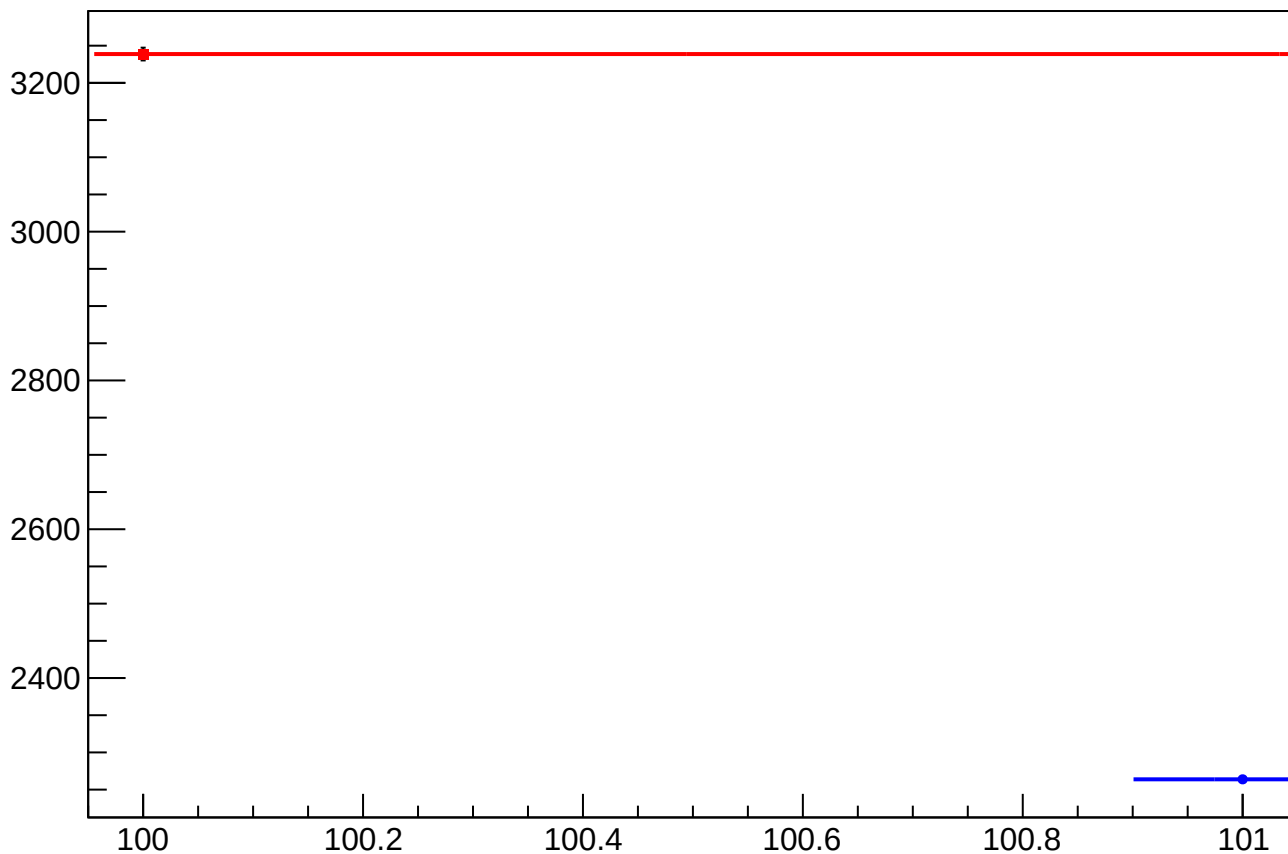
Right: 479.044 $\pm$ 2725.562  $\chi^2$ /NDF: 0.3/1

In: 149.918 $\pm$ 2796.964  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 479.044 $\pm$ 2725.562  $\chi^2$ /NDF: 0.3/1

asym\_atr1\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 2263.828 $\pm$ 1.978  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3238.735 $\pm$ 8.584  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2312.969 $\pm$ 1.927  $\chi^2$ /NDF: 12247.7/1

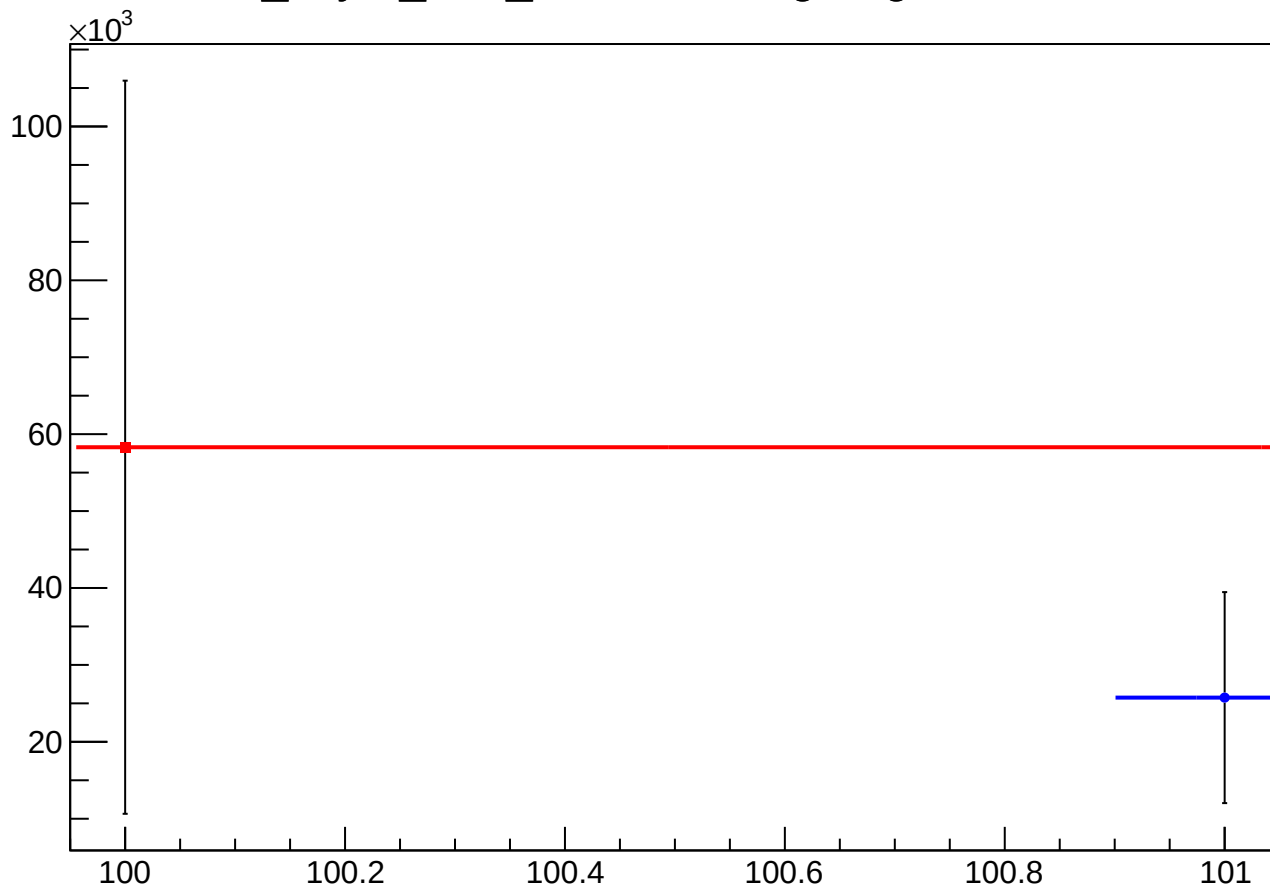
In: 2263.828 $\pm$ 1.978  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2312.969 $\pm$ 1.927  $\chi^2$ /NDF: 12247.7/1



# cor\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 25748.056 $\pm$ 13716.357  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 58298.985 $\pm$ 47656.396  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

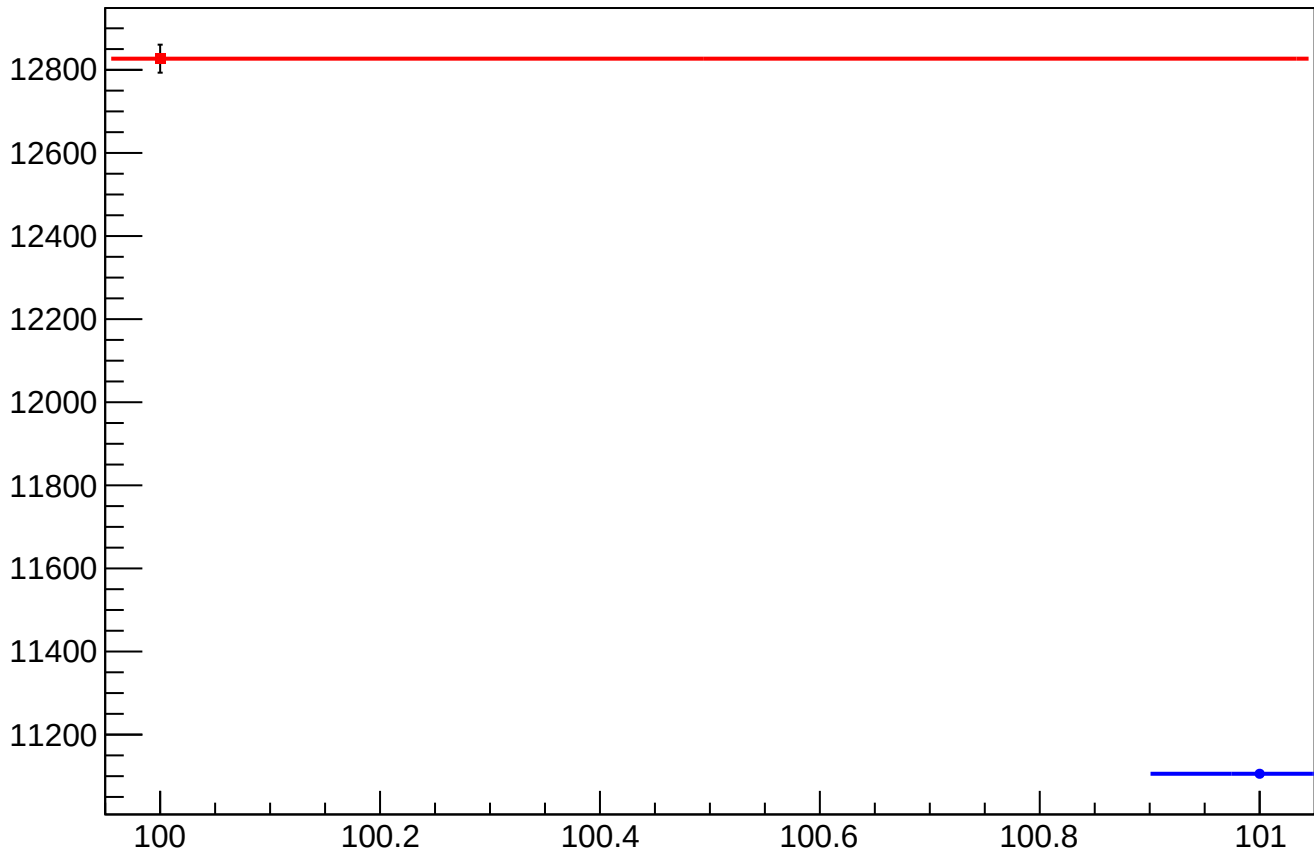
Right: 28238.259 $\pm$ 13181.257  $\chi^2$ /NDF: 0.4/1

In: 25748.056 $\pm$ 13716.357  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 28238.259 $\pm$ 13181.257  $\chi^2$ /NDF: 0.4/1

# cor\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 11105.769+/-9.699  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12826.908+/-33.698  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

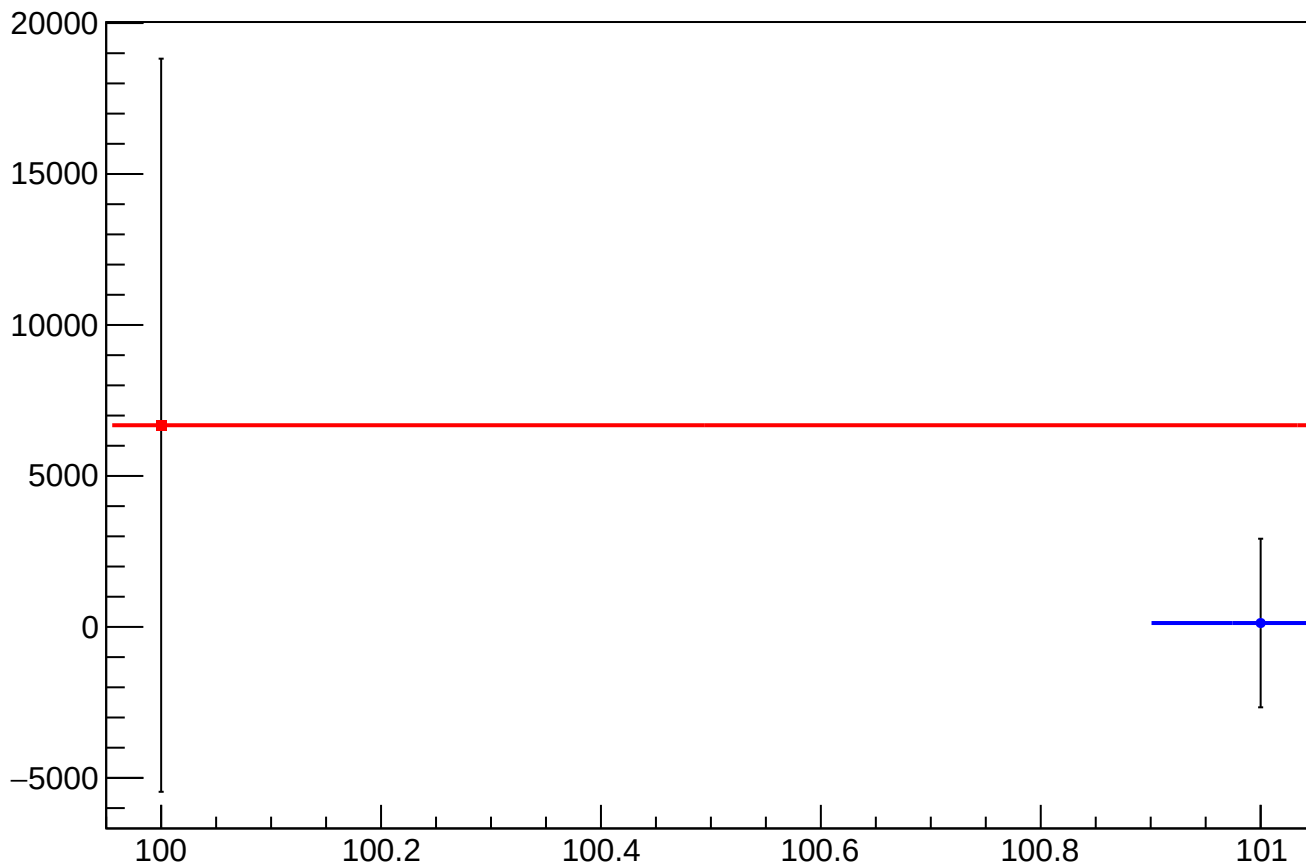
Right: 11237.440+/-9.321  $\chi^2/\text{NDF}$ : 2409.1/1

In: 11105.769+/-9.699  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11237.440+/-9.321  $\chi^2/\text{NDF}$ : 2409.1/1

asym\_atr1\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 129.091 $\pm$ 2791.664  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6679.589 $\pm$ 12140.010  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

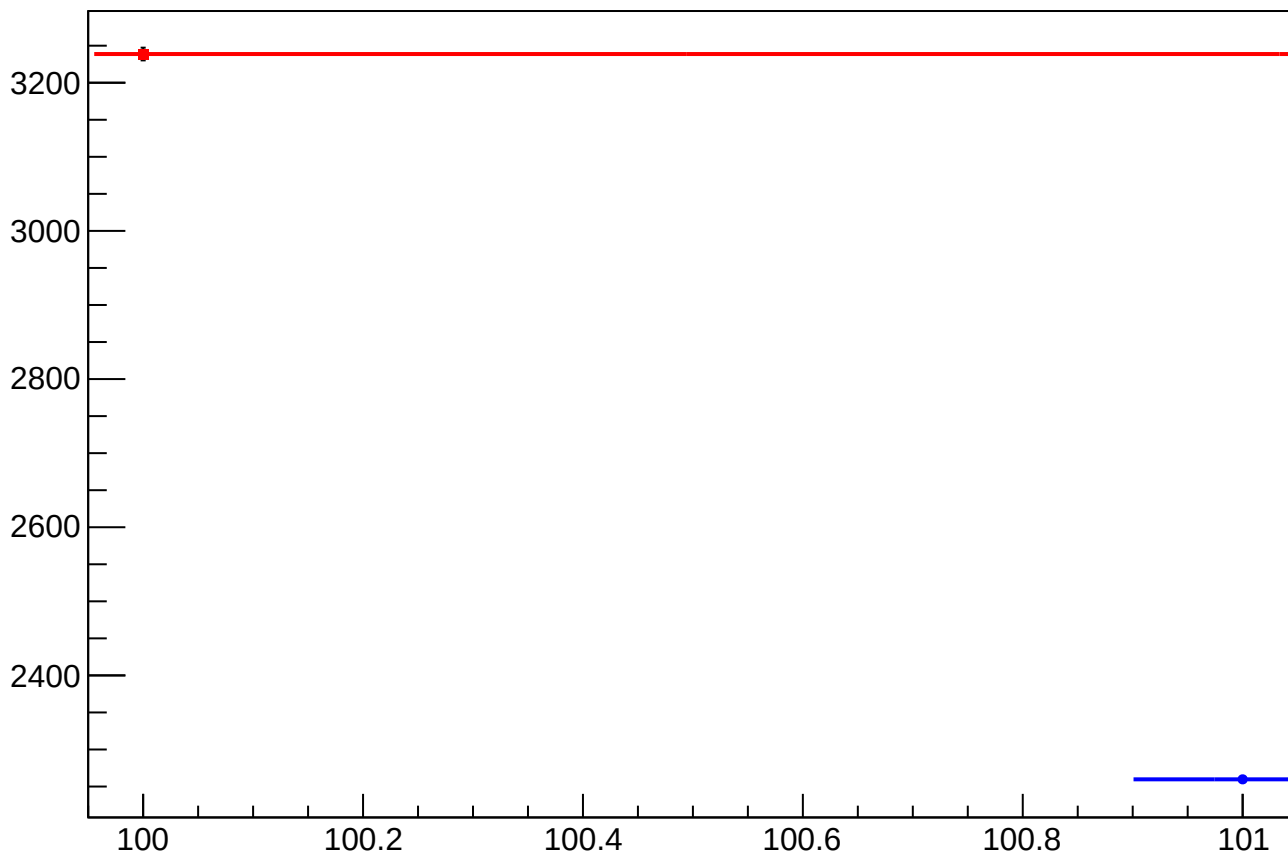
Right: 458.082 $\pm$ 2720.657  $\chi^2$ /NDF: 0.3/1

In: 129.091 $\pm$ 2791.664  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 458.082 $\pm$ 2720.657  $\chi^2$ /NDF: 0.3/1

asym\_atr1\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 2259.723+/-1.974  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3238.734+/-8.584  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

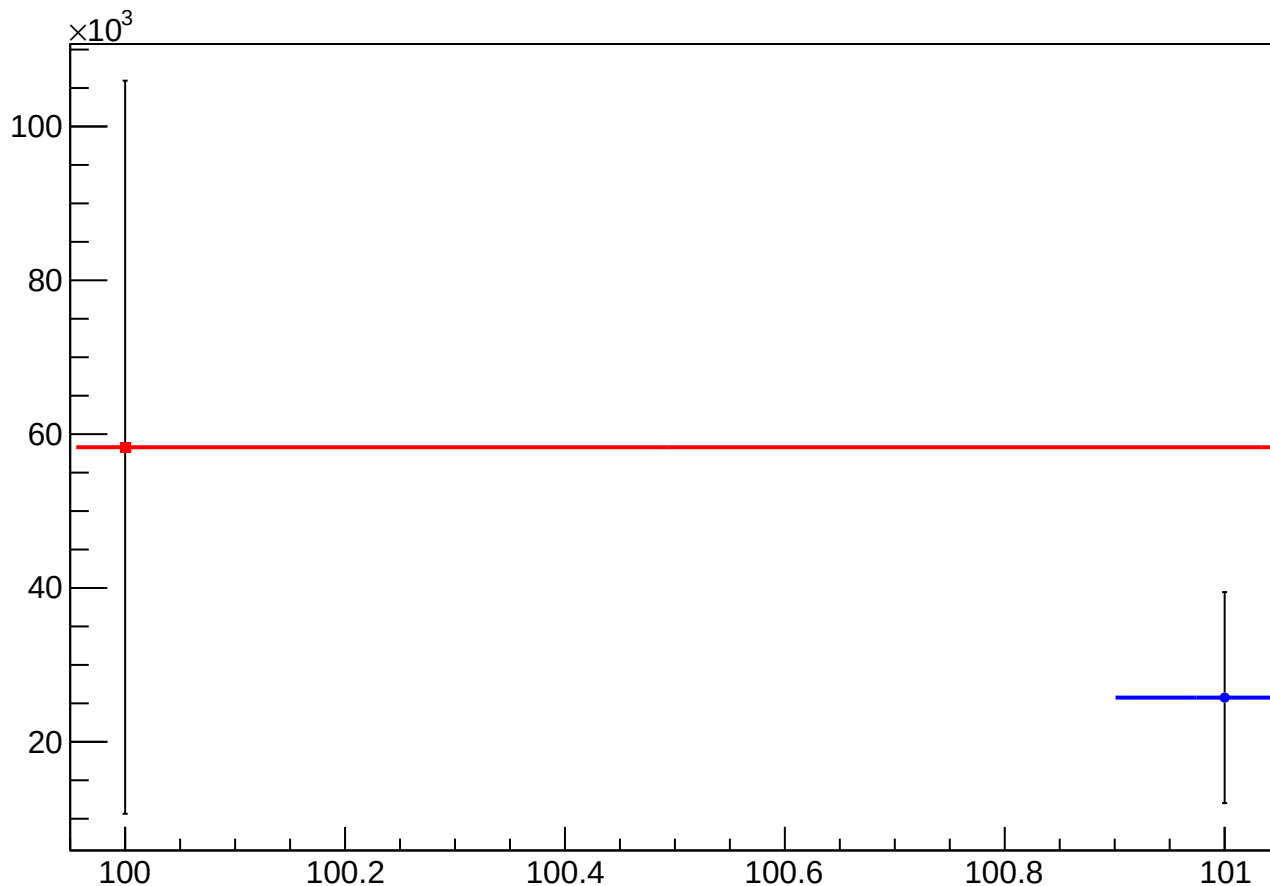
Right: 2308.893+/-1.924  $\chi^2/\text{NDF}$ : 12353.5/1

In: 2259.723+/-1.974  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2308.893+/-1.924  $\chi^2/\text{NDF}$ : 12353.5/1

eigen\_cor\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 25748.056+/-13716.357  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 58298.985+/-47656.396  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

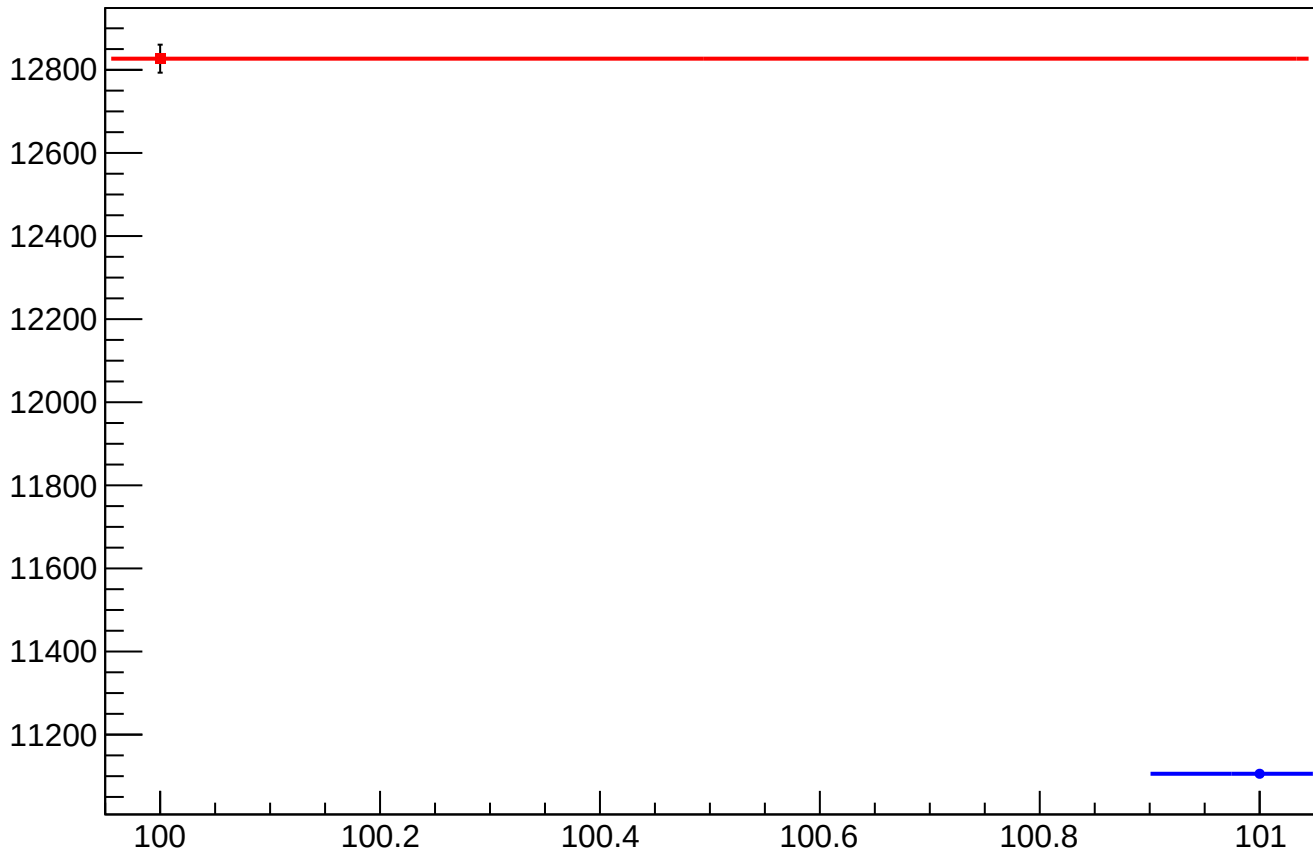
Right: 28238.259+/-13181.257  $\chi^2$ /NDF: 0.4/1

In: 25748.056+/-13716.357  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 28238.259+/-13181.257  $\chi^2$ /NDF: 0.4/1

eigen\_cor\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 11105.769+/-9.699  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12826.908+/-33.698  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

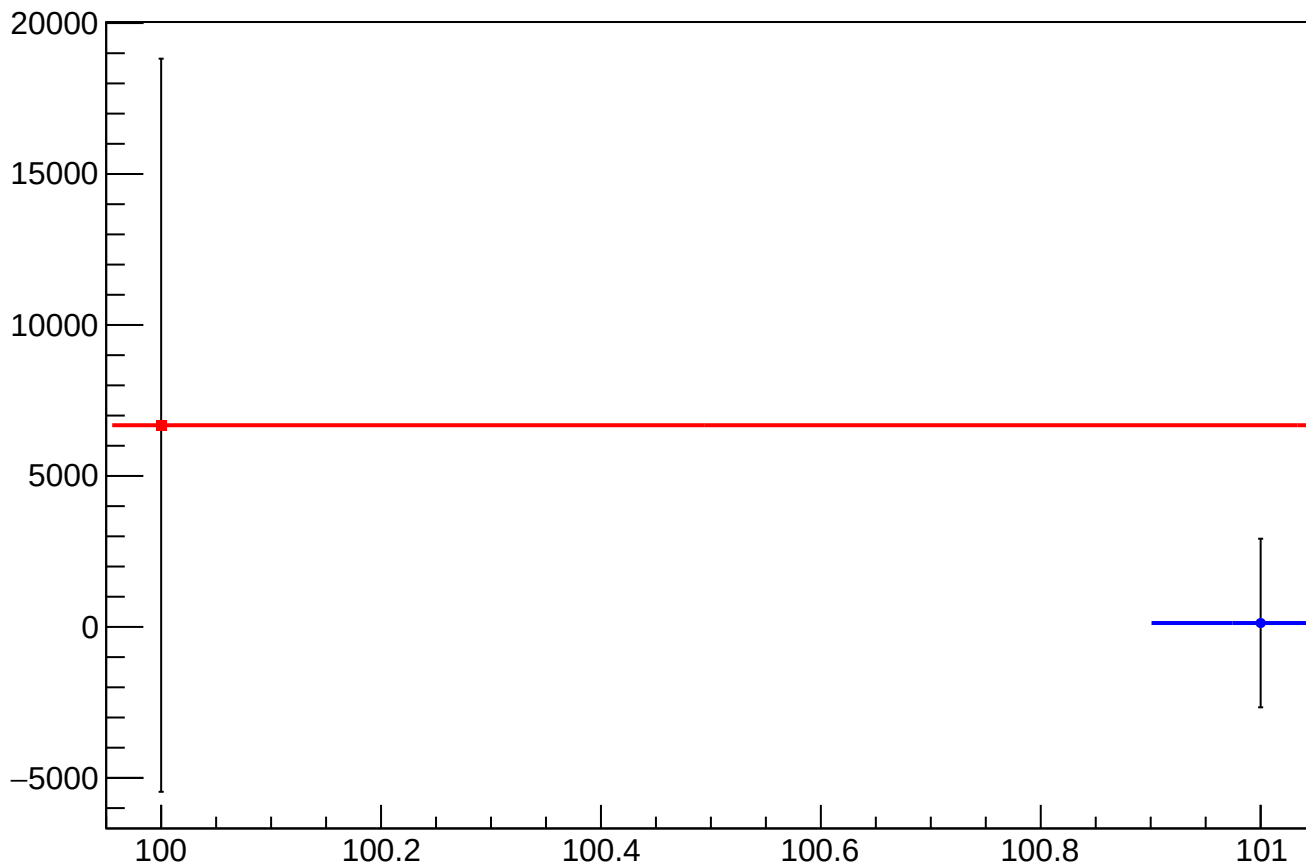
Right: 11237.440+/-9.321  $\chi^2/\text{NDF}$ : 2409.1/1

In: 11105.769+/-9.699  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11237.440+/-9.321  $\chi^2/\text{NDF}$ : 2409.1/1

asym\_atr1\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 129.091+/-2791.664  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6679.589+/-12140.010  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

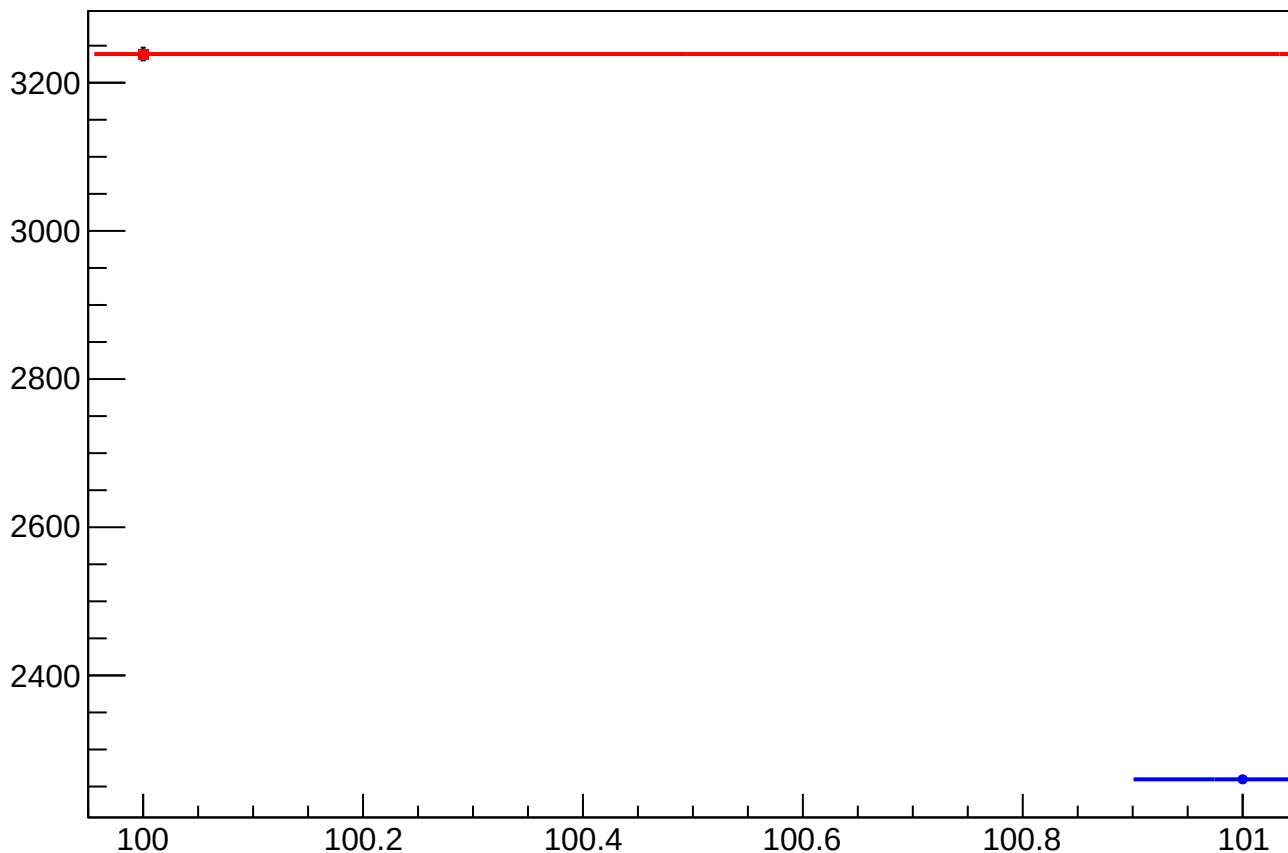
Right: 458.082+/-2720.657  $\chi^2/\text{NDF}$ : 0.3/1

In: 129.091+/-2791.664  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 458.082+/-2720.657  $\chi^2/\text{NDF}$ : 0.3/1

asym\_atr1\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 2259.723+/-1.974  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3238.734+/-8.584  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 2308.893+/-1.924  $\chi^2/\text{NDF}$ : 12353.5/1

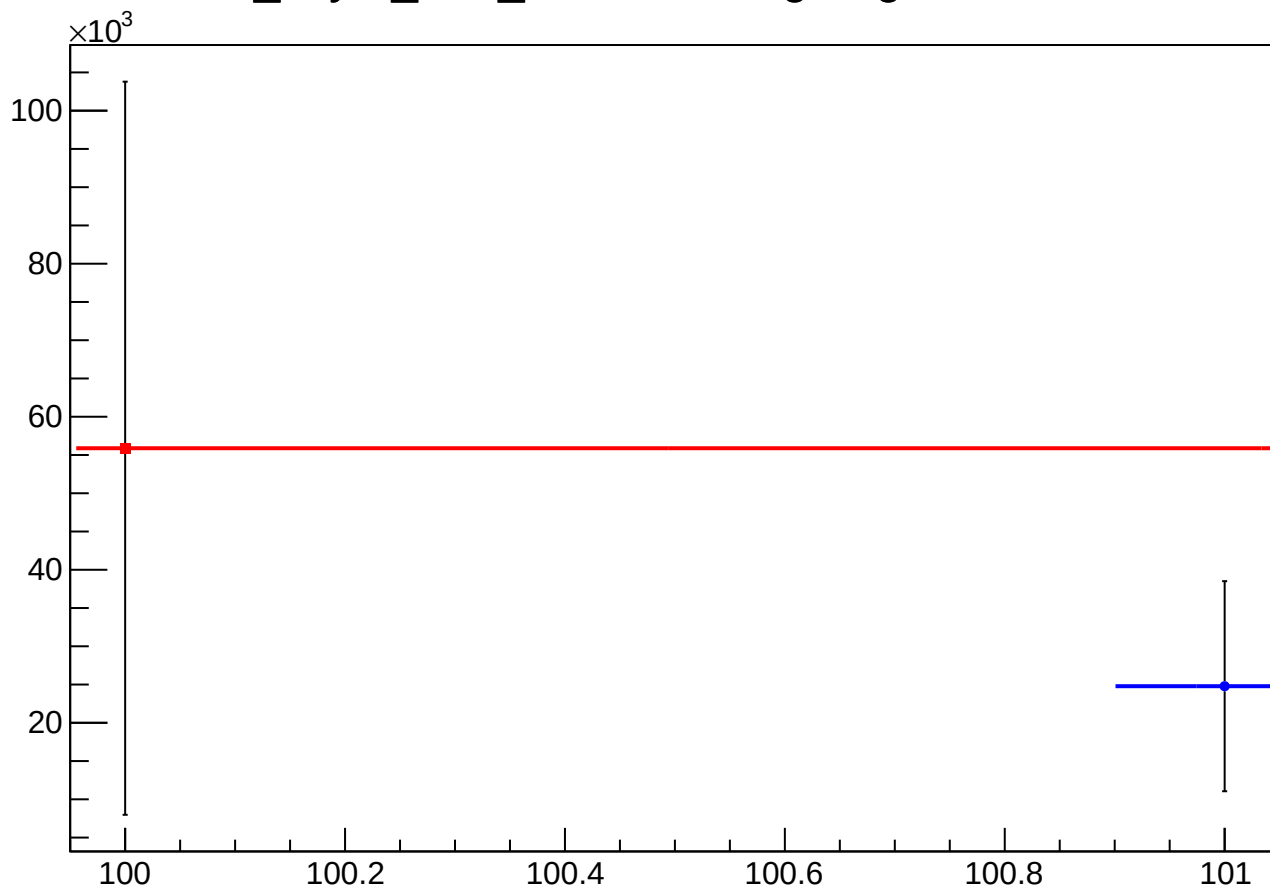
In: 2259.723+/-1.974  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2308.893+/-1.924  $\chi^2/\text{NDF}$ : 12353.5/1



# dit\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 24782.794+/-13727.350  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55883.594+/-47907.076  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

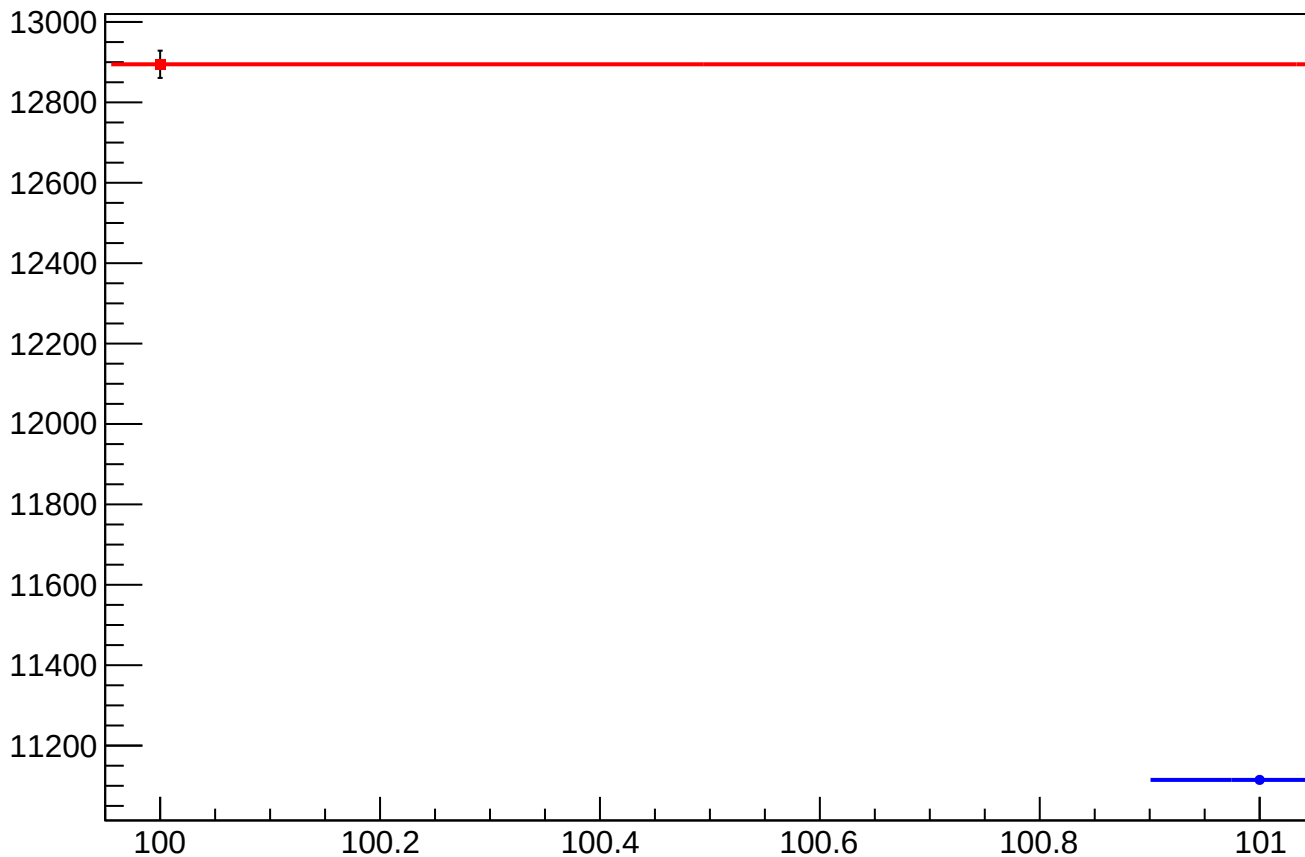
Right: 27142.598+/-13196.290  $\chi^2/\text{NDF}$ : 0.4/1

In: 24782.794+/-13727.350  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27142.598+/-13196.290  $\chi^2/\text{NDF}$ : 0.4/1

# dit\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 11114.692+/-9.707  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12894.725+/-33.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

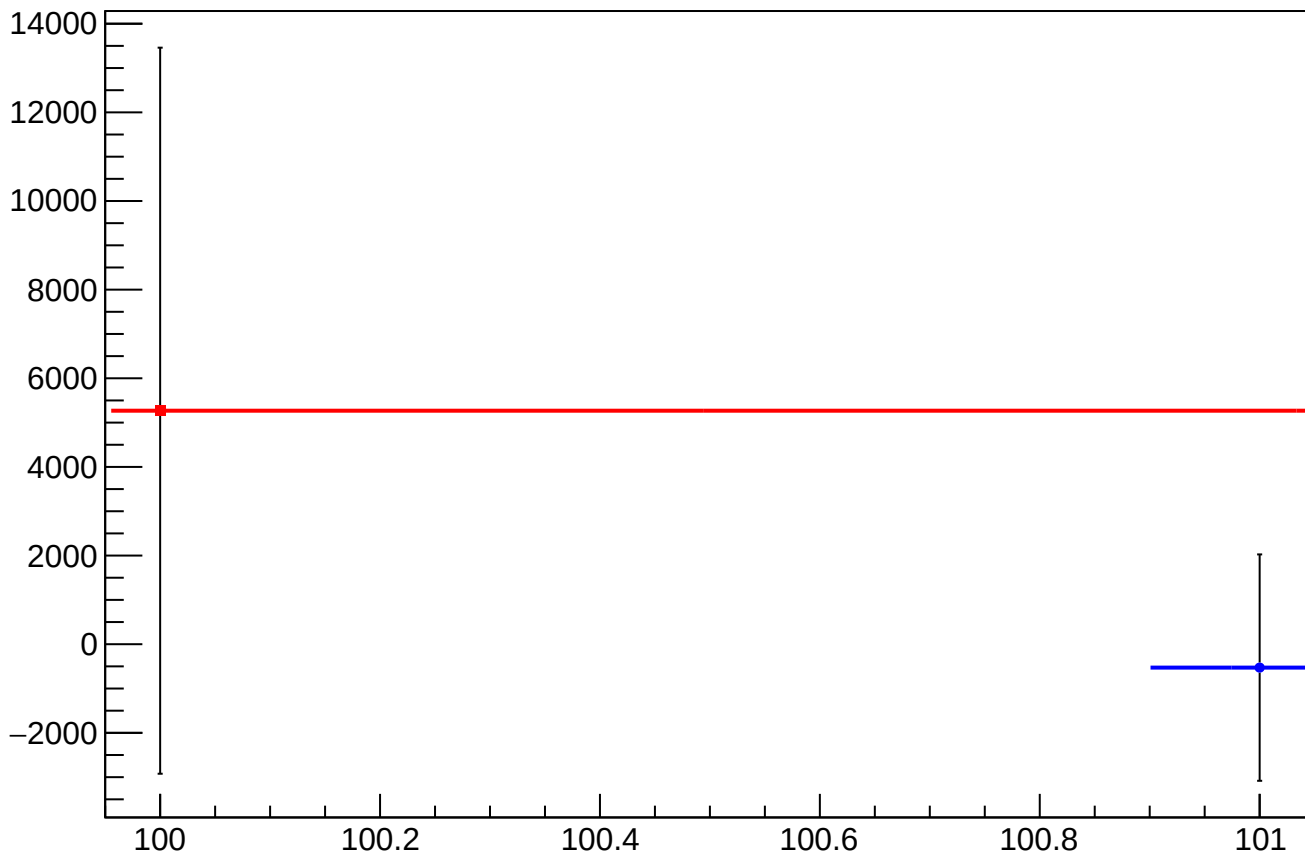
Right: 11249.754+/-9.331  $\chi^2/\text{NDF}$ : 2551.6/1

In: 11114.692+/-9.707  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11249.754+/-9.331  $\chi^2/\text{NDF}$ : 2551.6/1

asym\_atr1\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -527.919+/-2554.005  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5268.547+/-8191.048  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

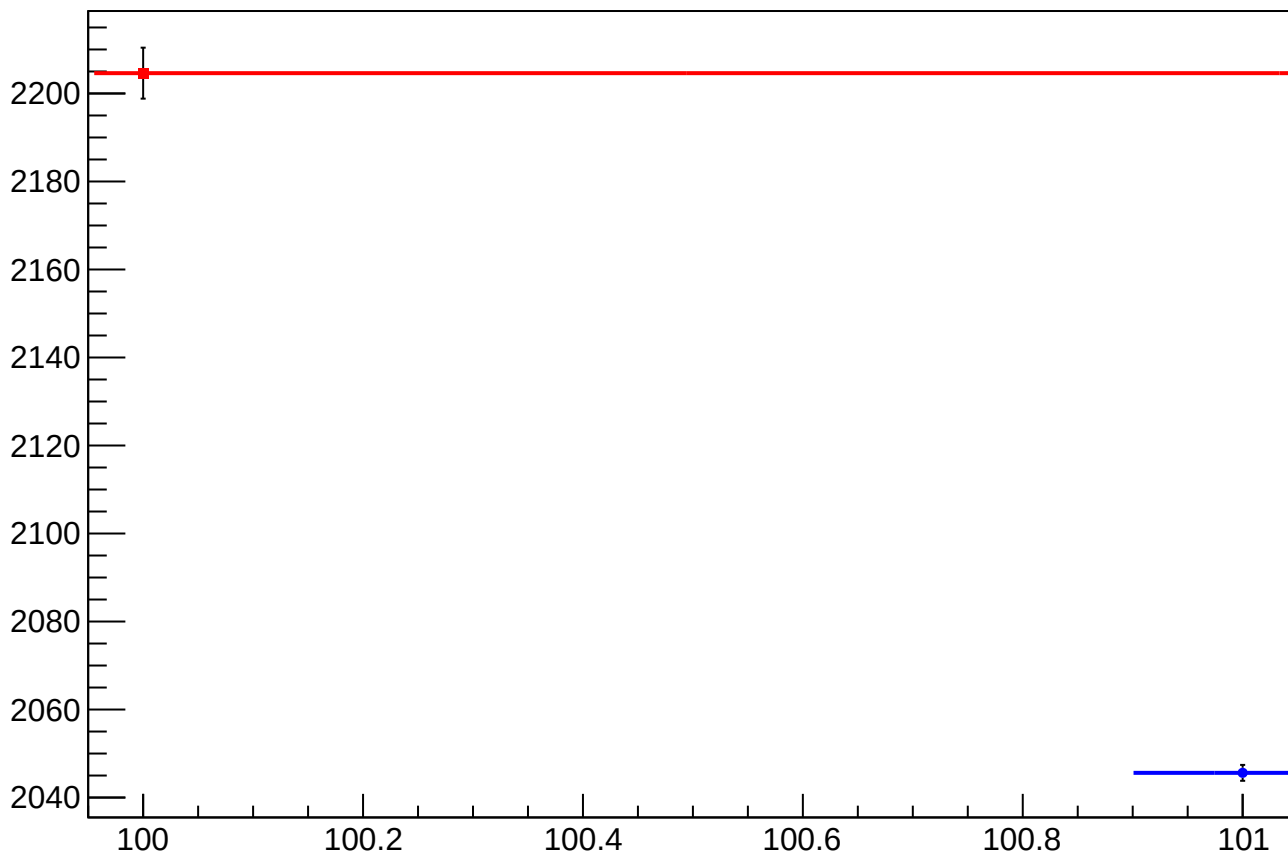
Right: -14.310+/-2438.229  $\chi^2/\text{NDF}$ : 0.5/1

In: -527.919+/-2554.005  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.310+/-2438.229  $\chi^2/\text{NDF}$ : 0.5/1

# asym\_atr1\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2045.611+/-1.806  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2204.617+/-5.792  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

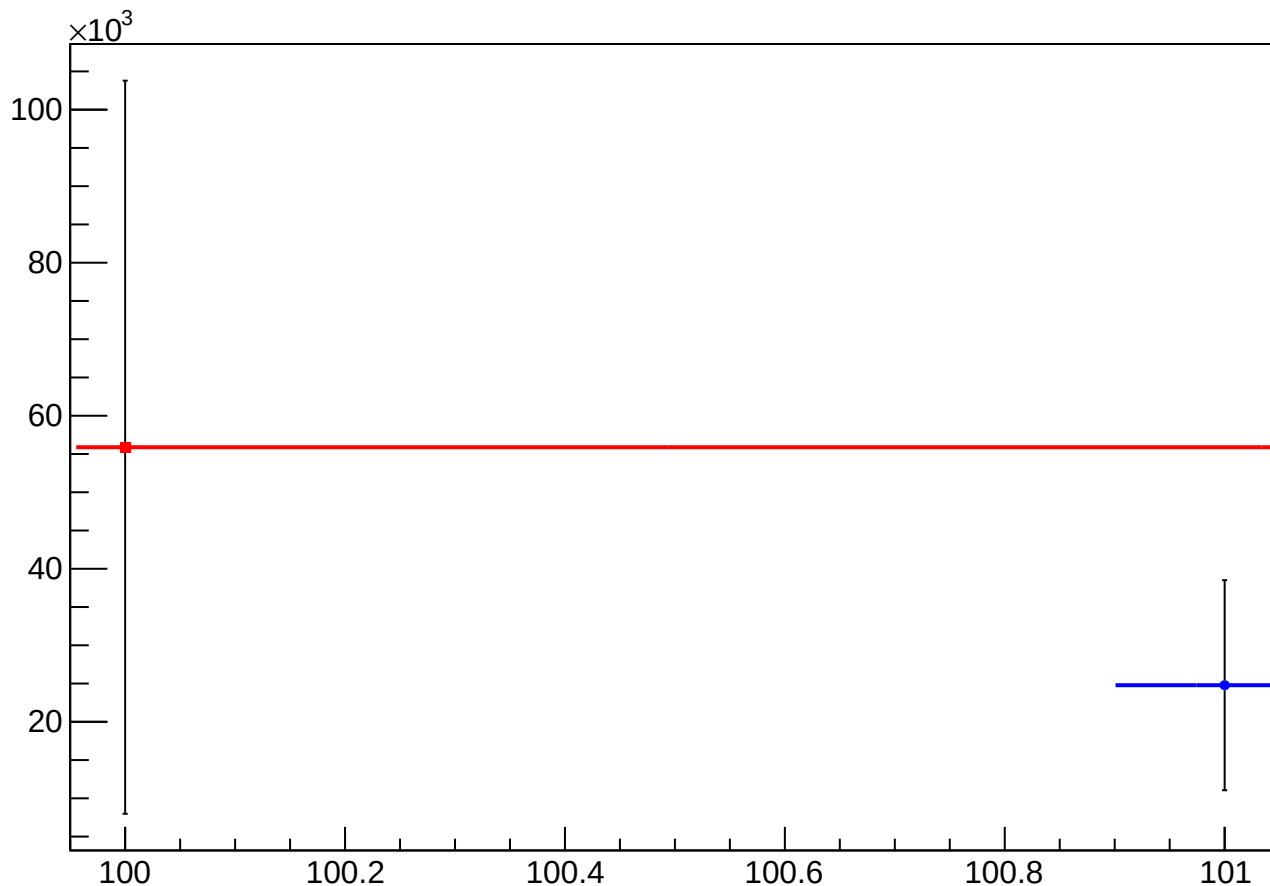
Right: 2059.700+/-1.724  $\chi^2/\text{NDF}$ : 686.9/1

In: 2045.611+/-1.806  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2059.700+/-1.724  $\chi^2/\text{NDF}$ : 686.9/1

eigen\_dit\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 24782.798+/-13727.350  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 55883.572+/-47907.076  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

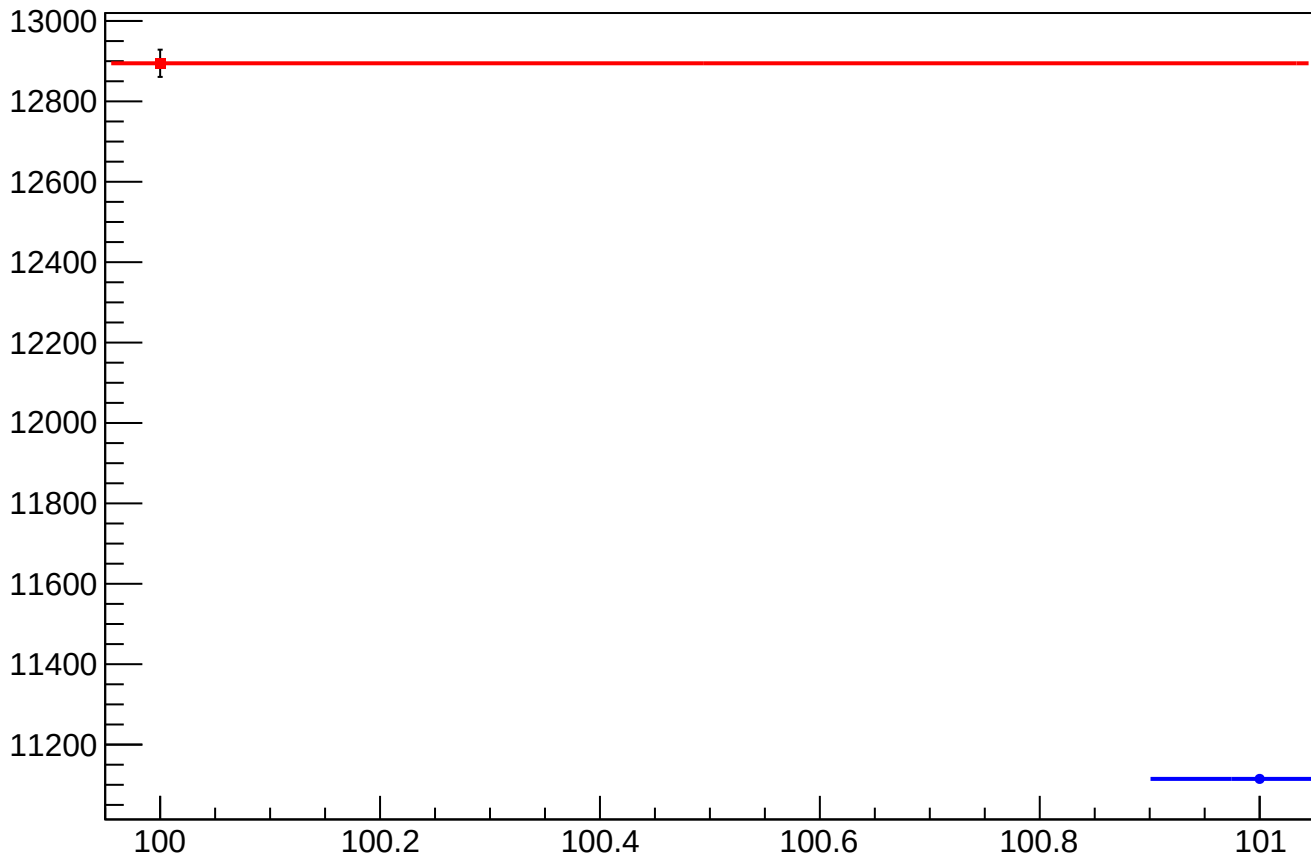
Right: 27142.600+/-13196.290  $\chi^2$ /NDF: 0.4/1

In: 24782.798+/-13727.350  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 27142.600+/-13196.290  $\chi^2$ /NDF: 0.4/1

# eigen\_dit\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 11114.692+/-9.707  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12894.725+/-33.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

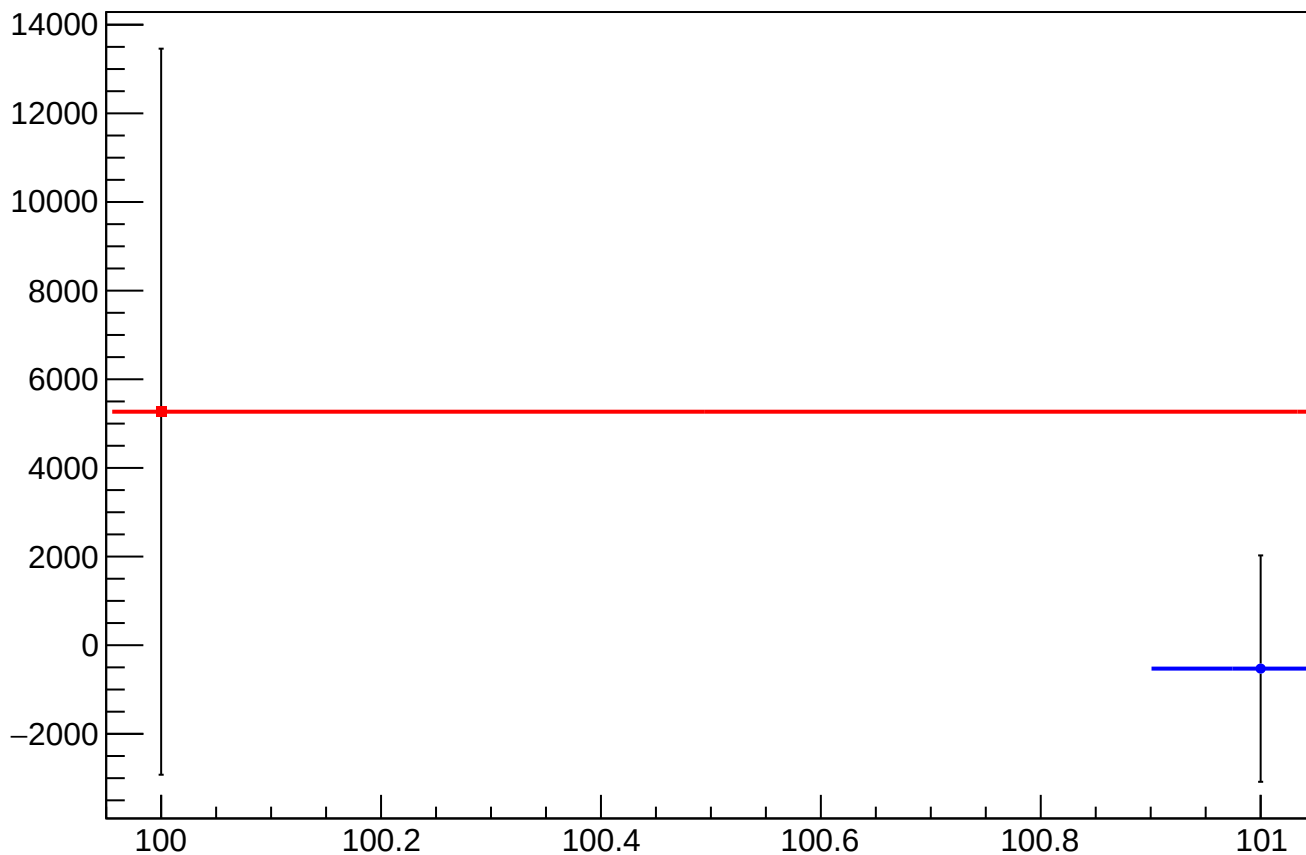
Right: 11249.754+/-9.331  $\chi^2/\text{NDF}$ : 2551.6/1

In: 11114.692+/-9.707  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11249.754+/-9.331  $\chi^2/\text{NDF}$ : 2551.6/1

asym\_atr1\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -527.915+/-2554.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5268.524+/-8191.038  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

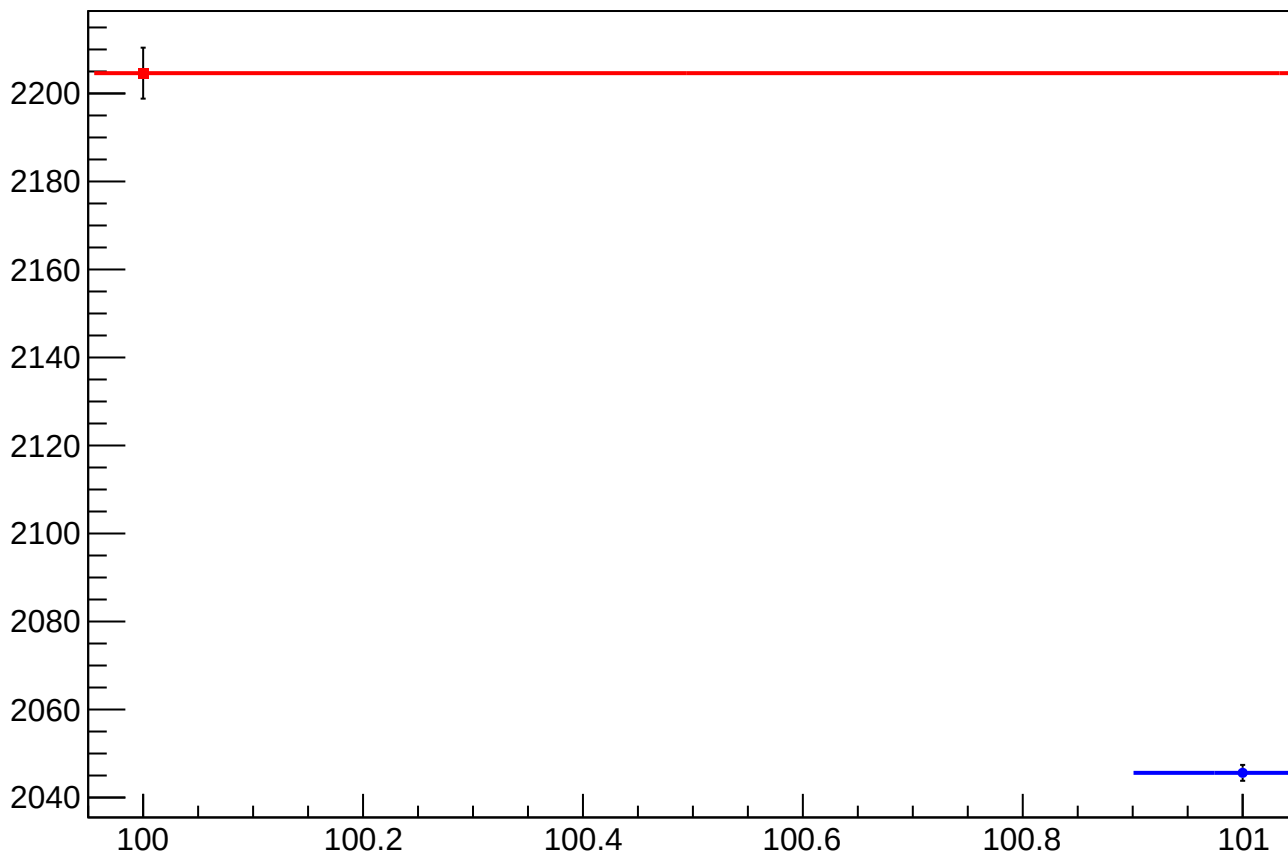
Right: -14.308+/-2438.224  $\chi^2/\text{NDF}$ : 0.5/1

In: -527.915+/-2554.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.308+/-2438.224  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atr1\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2045.607 $\pm$ 1.806  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2204.615 $\pm$ 5.792  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2059.696 $\pm$ 1.724  $\chi^2$ /NDF: 686.9/1

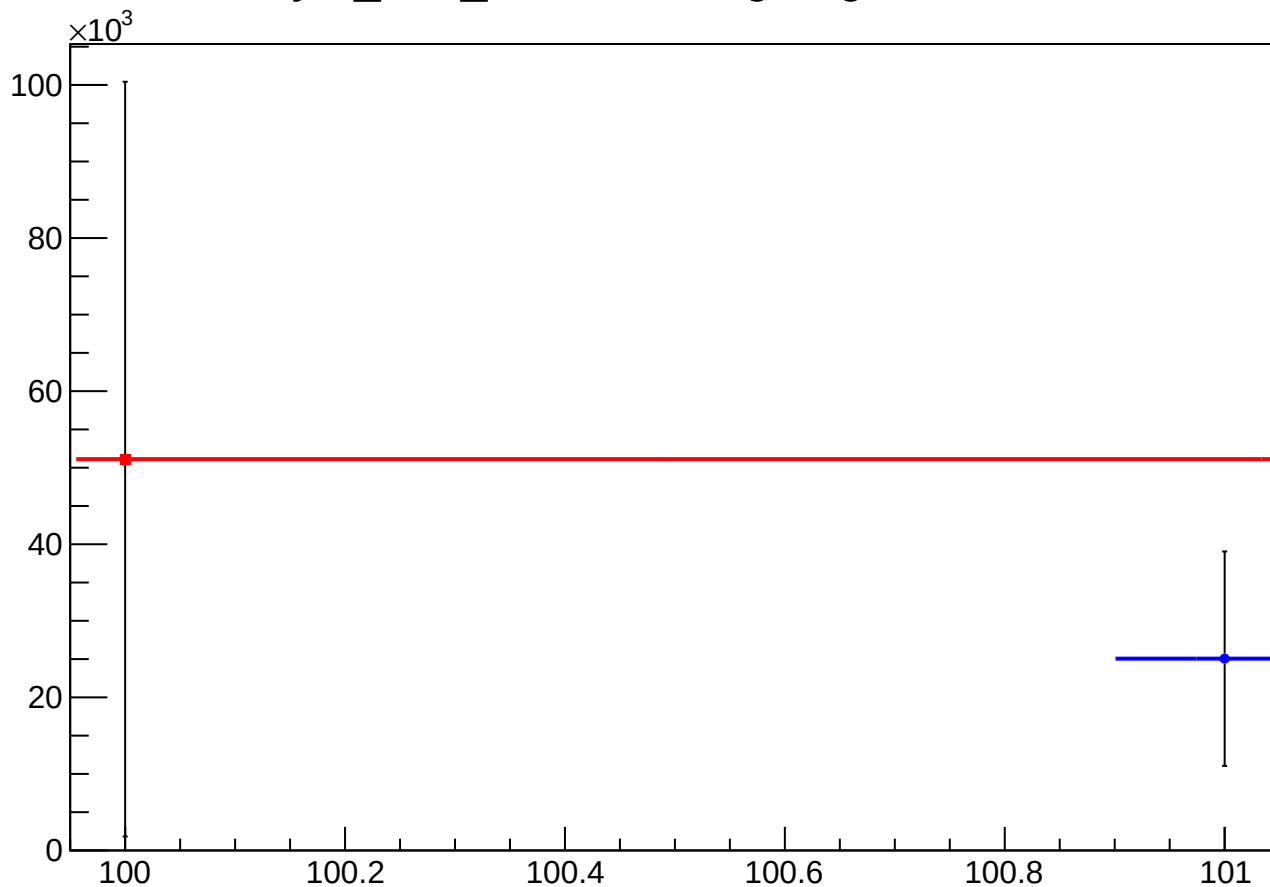
In: 2045.607 $\pm$ 1.806  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2059.696 $\pm$ 1.724  $\chi^2$ /NDF: 686.9/1



# asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 25055.784 $\pm$ 14005.460  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 51122.584 $\pm$ 49297.413  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

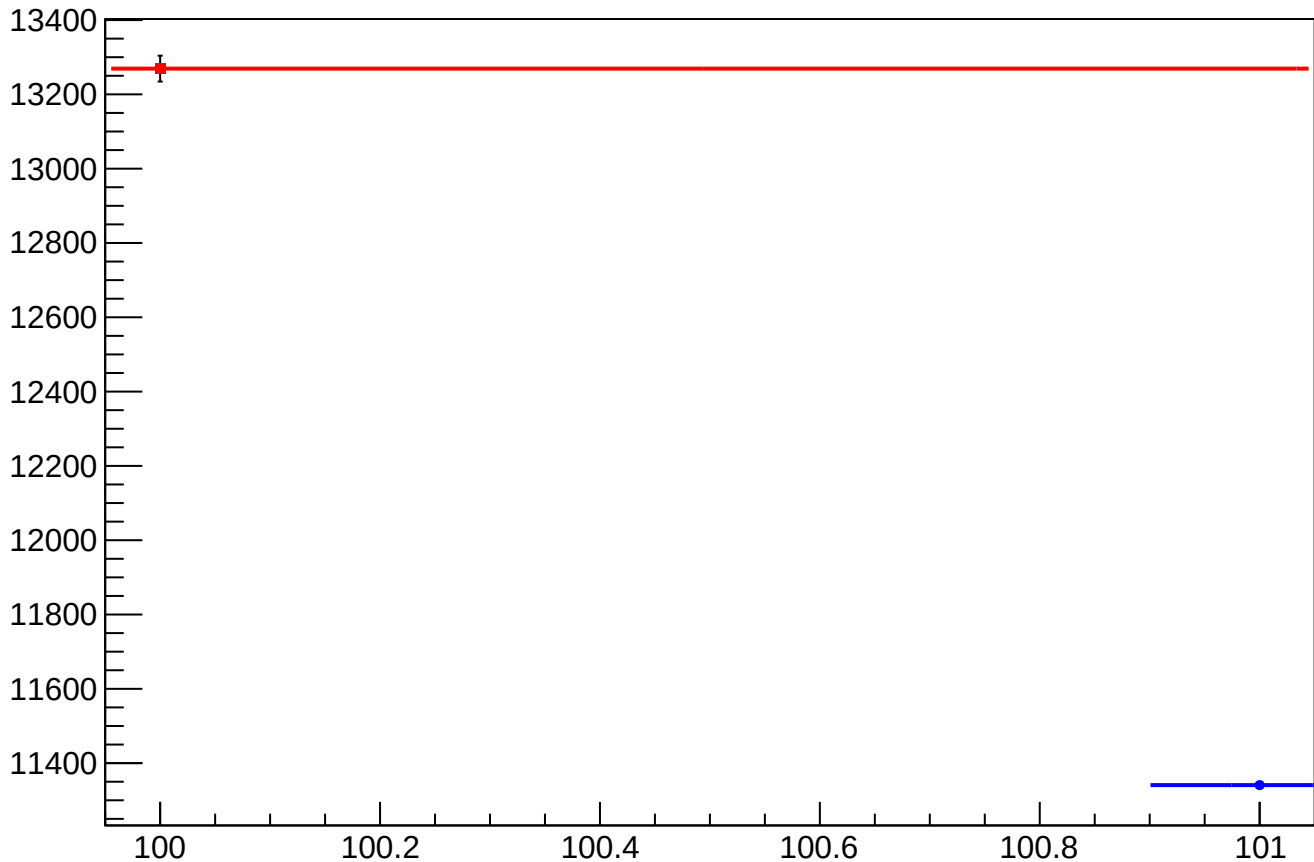
Right: 27002.595 $\pm$ 13472.310  $\chi^2/\text{NDF}$ : 0.3/1

In: 25055.784 $\pm$ 14005.460  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27002.595 $\pm$ 13472.310  $\chi^2/\text{NDF}$ : 0.3/1

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 11340.839+/-9.903  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 13269.255+/-34.859  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

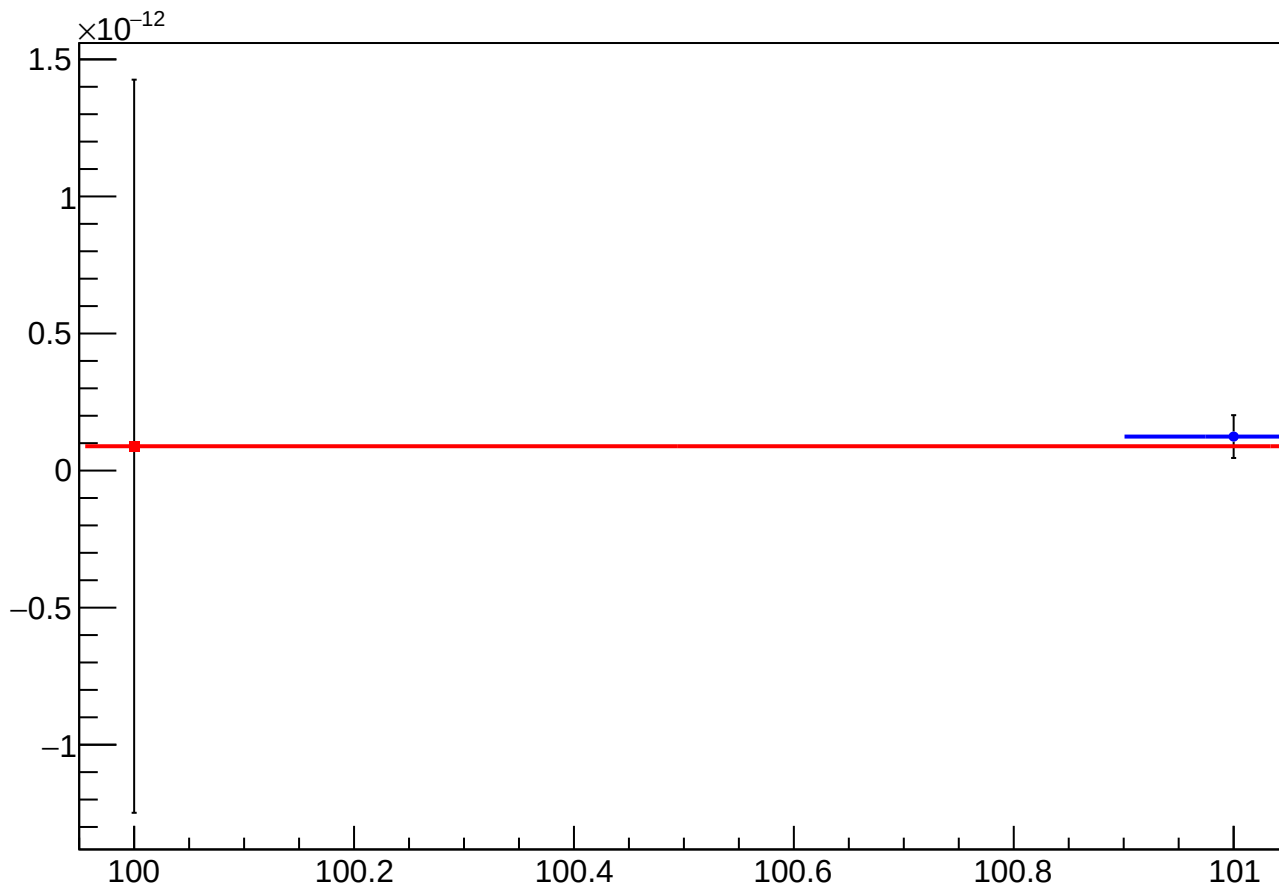
Right: 11484.864+/-9.526  $\chi^2$ /NDF: 2831.9/1

In: 11340.839+/-9.903  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 11484.864+/-9.526  $\chi^2$ /NDF: 2831.9/1

asym\_atr1\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

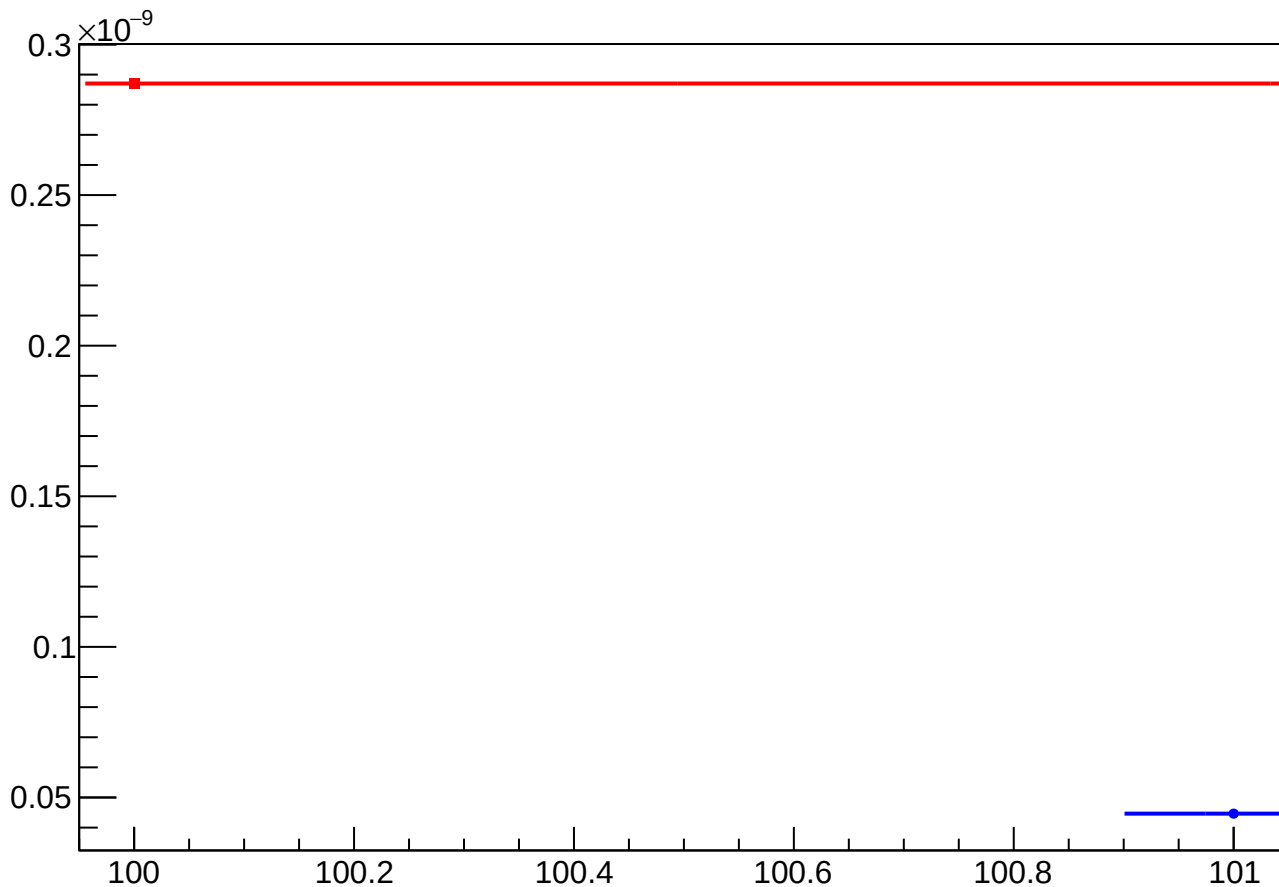
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr1\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 0.0/0

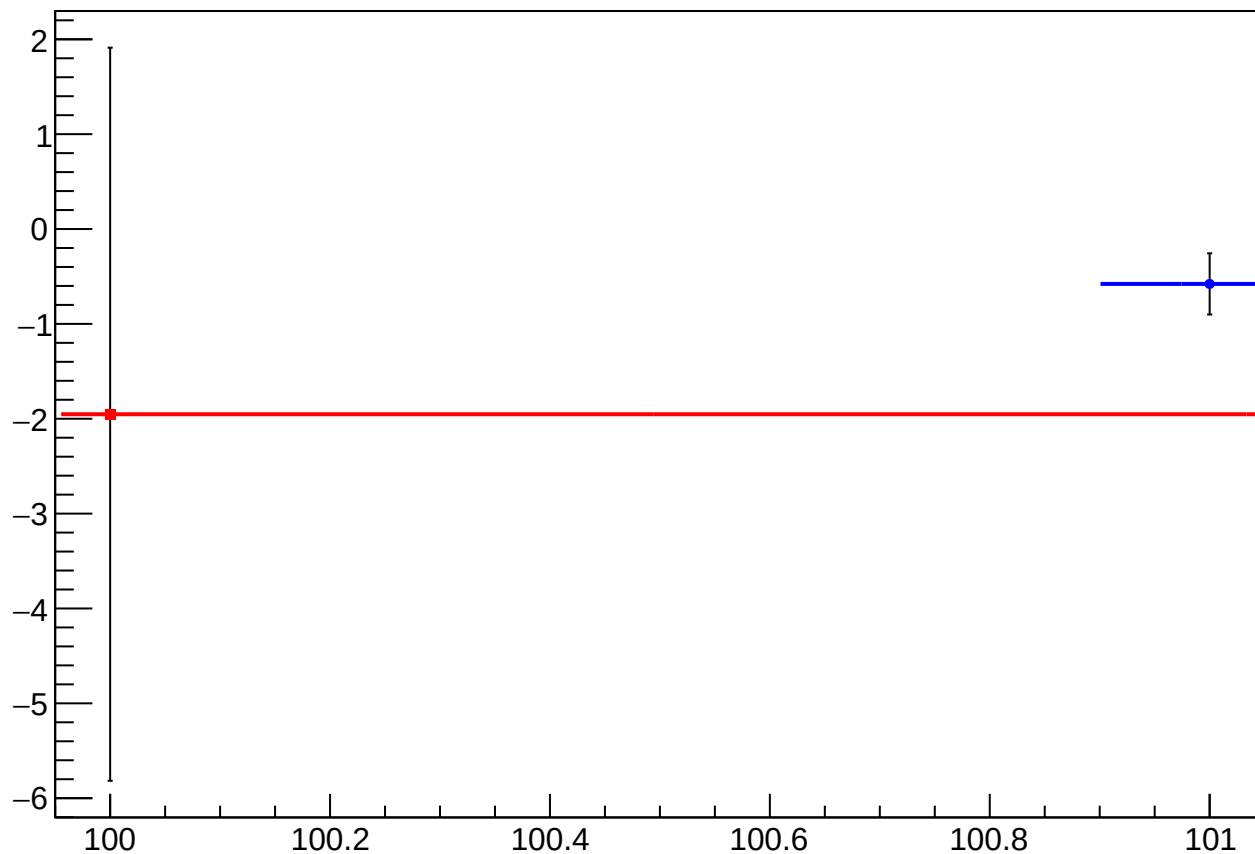
Right: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 65503.2/1

In: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000 $\pm$ -0.000  $\chi^2/\text{NDF}$ : 65503.2/1

asym\_atr1\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.579+/-0.323  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.952+/-3.864  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

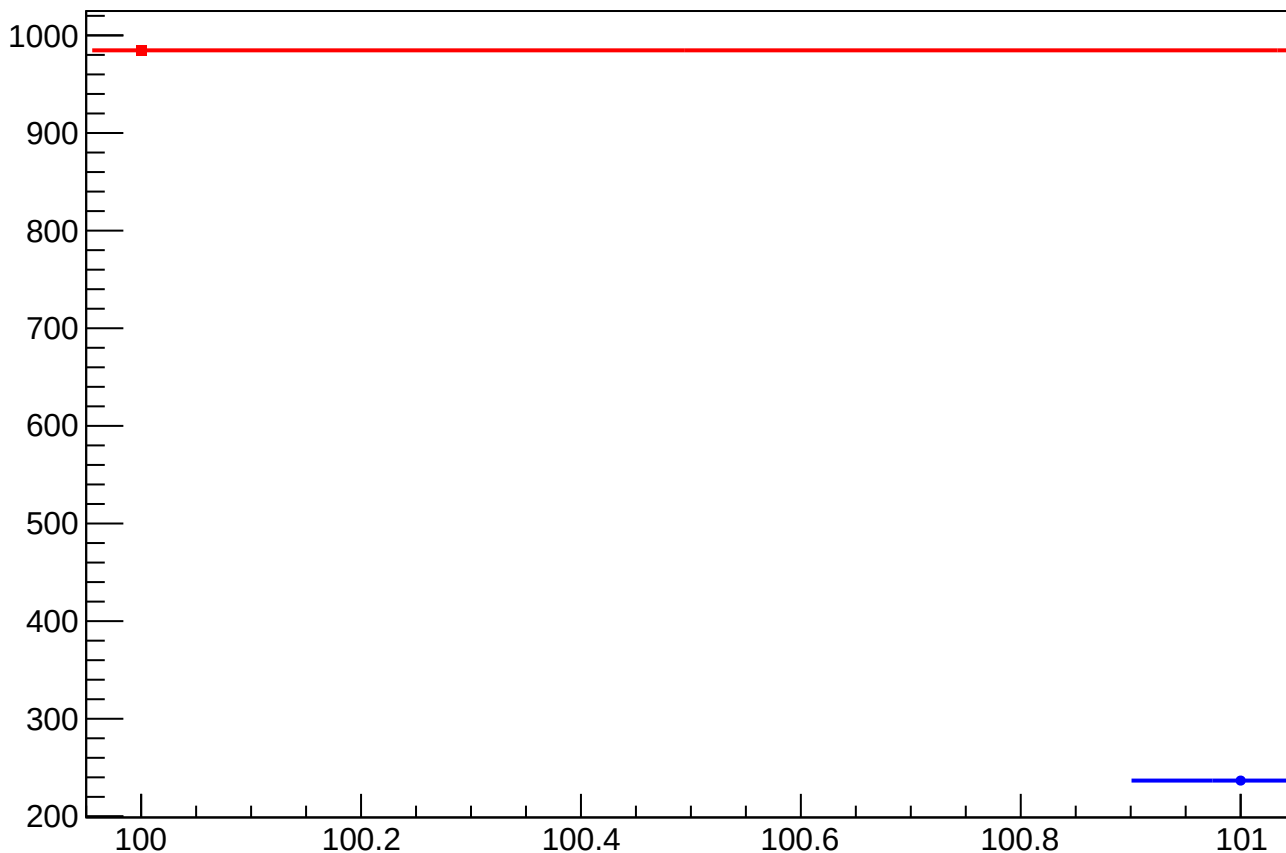
Right: -0.588+/-0.321  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.579+/-0.323  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.588+/-0.321  $\chi^2/\text{NDF}$ : 0.1/1

asym\_atr1\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 236.686 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 984.672 $\pm$ 2.732  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

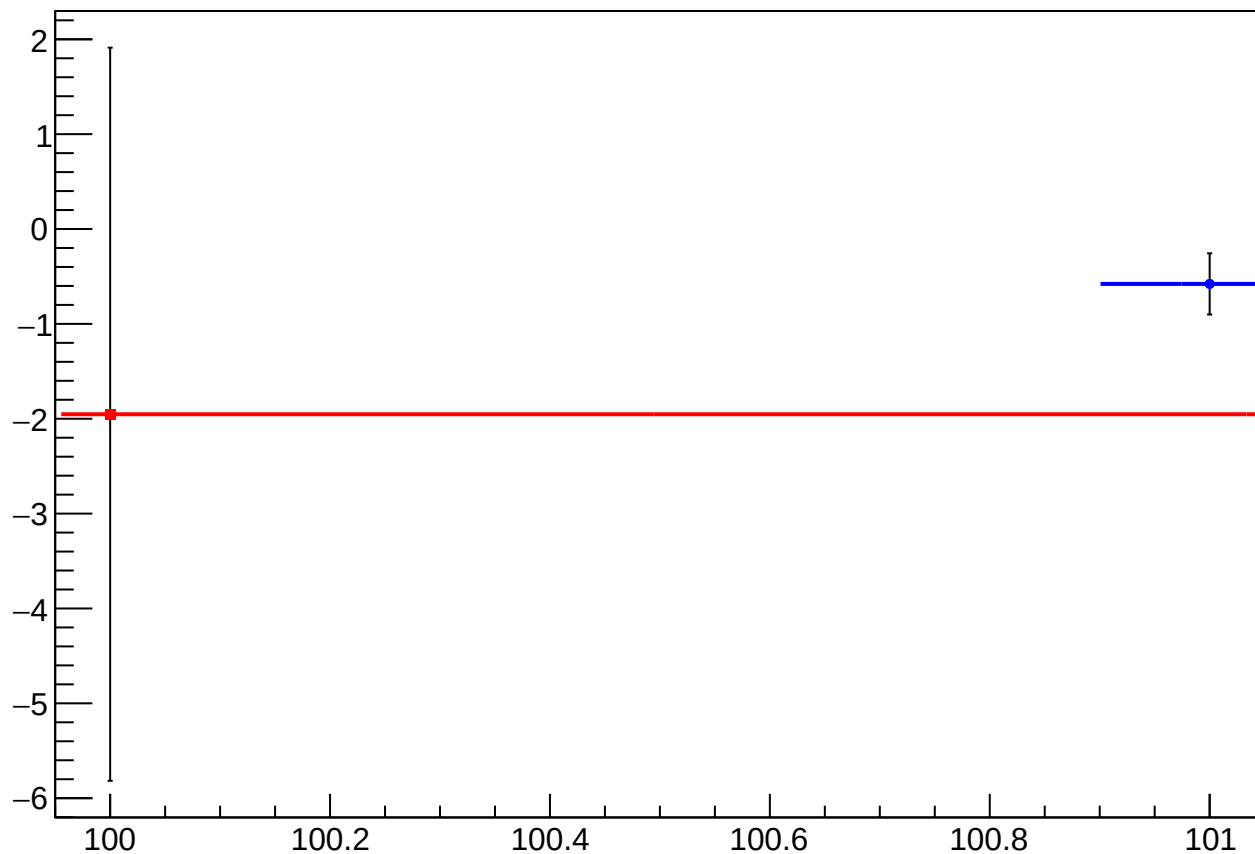
Right: 241.863 $\pm$ 0.227  $\chi^2$ /NDF: 74419.5/1

In: 236.686 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 241.863 $\pm$ 0.227  $\chi^2$ /NDF: 74419.5/1

asym\_atr1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.579 $\pm$ 0.323  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.952 $\pm$ 3.864  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

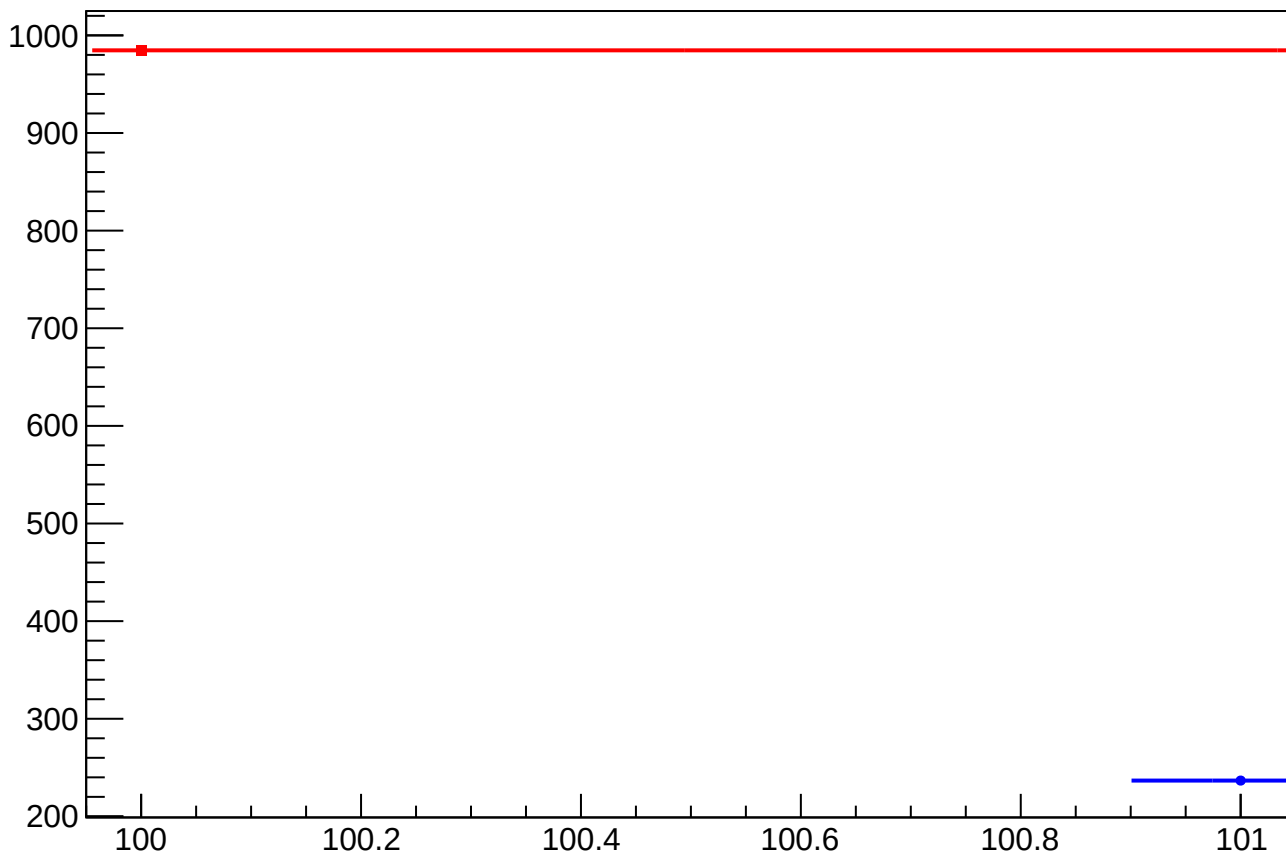
Right: -0.588 $\pm$ 0.321  $\chi^2$ /NDF: 0.1/1

In: -0.579 $\pm$ 0.323  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.588 $\pm$ 0.321  $\chi^2$ /NDF: 0.1/1

asym\_atr1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 236.686 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 984.672 $\pm$ 2.732  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 241.863 $\pm$ 0.227  $\chi^2$ /NDF: 74419.5/1

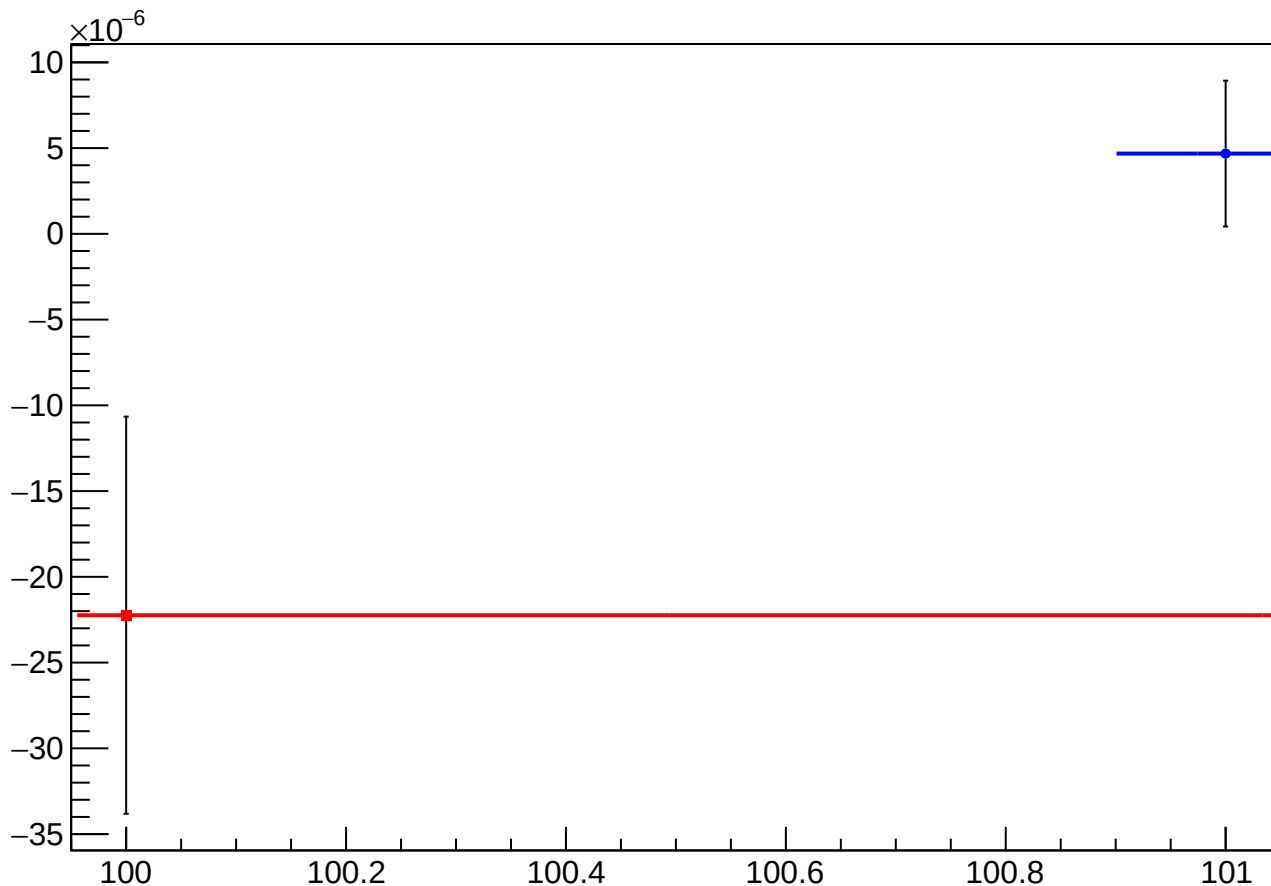
In: 236.686 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 241.863 $\pm$ 0.227  $\chi^2$ /NDF: 74419.5/1



asym\_atr1\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

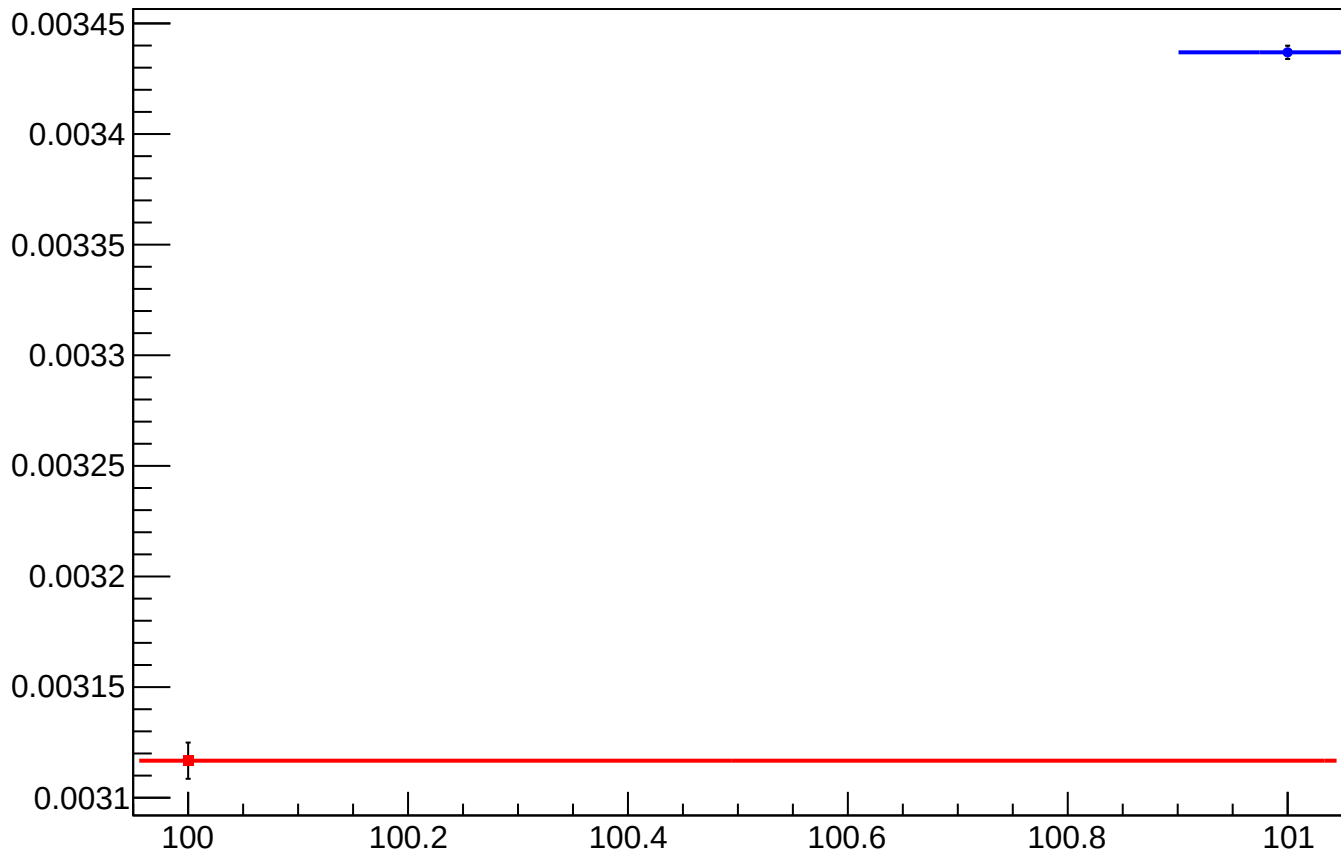
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/1

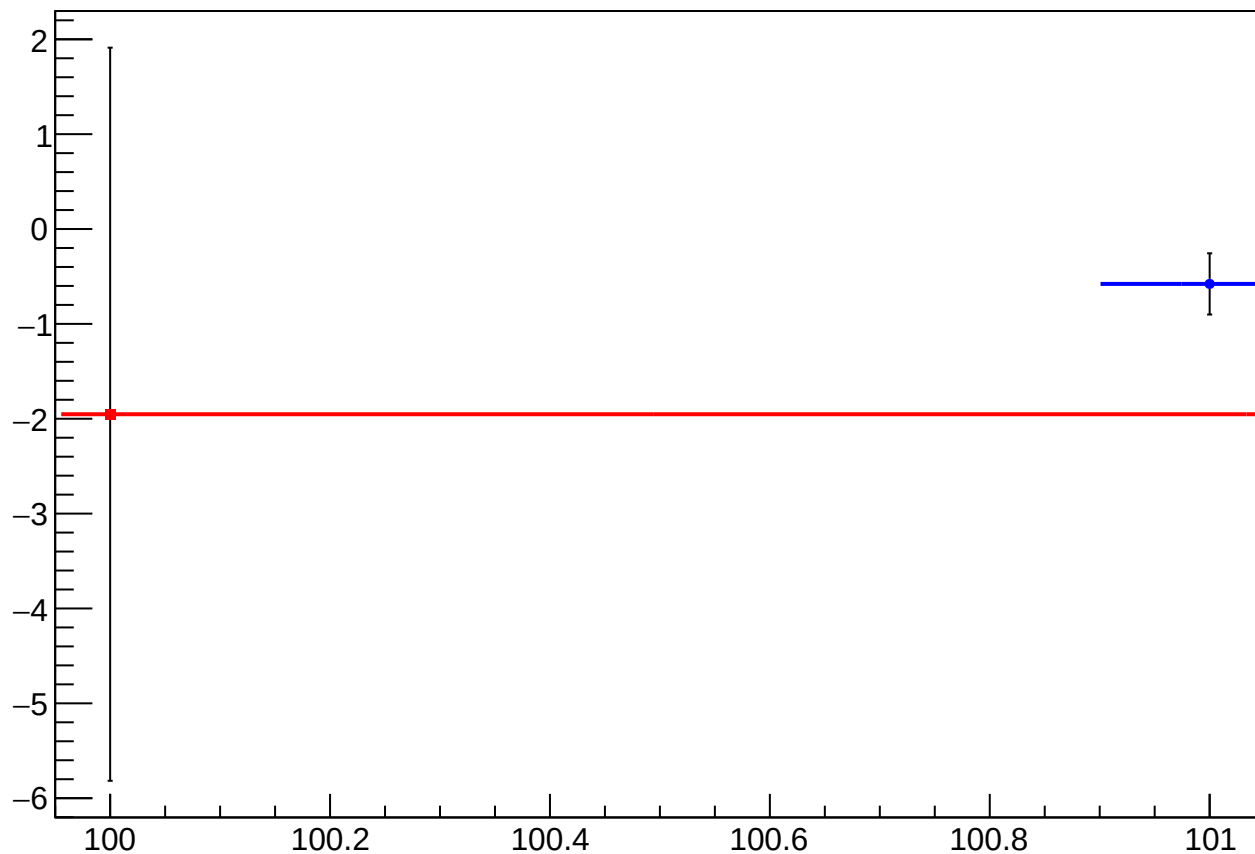
asym\_atr1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1347.5/1  
 In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1347.5/1

asym\_atr1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.579+/-0.323  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.952+/-3.864  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

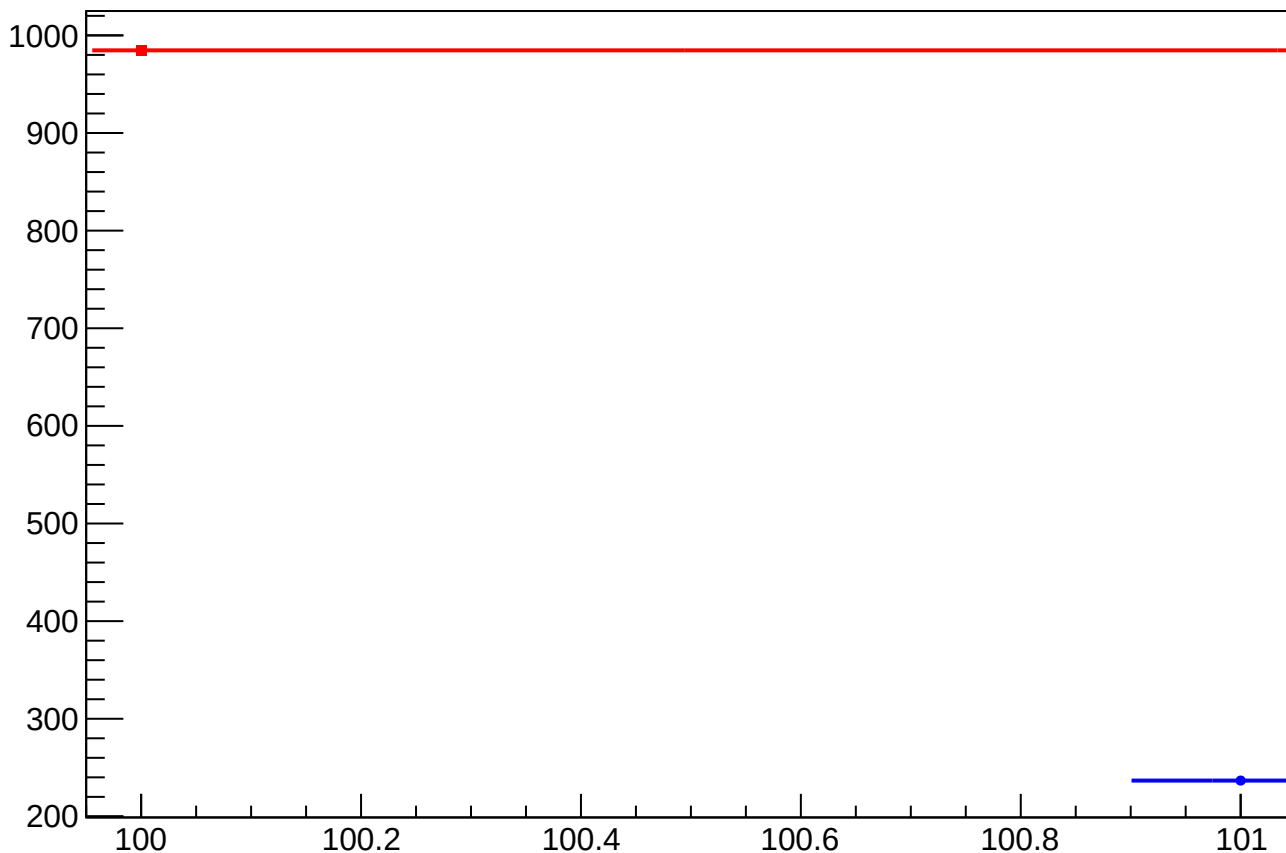
Right: -0.588+/-0.321  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.579+/-0.323  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.588+/-0.321  $\chi^2/\text{NDF}$ : 0.1/1

asym\_atr1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 236.687 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 984.673 $\pm$ 2.732  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

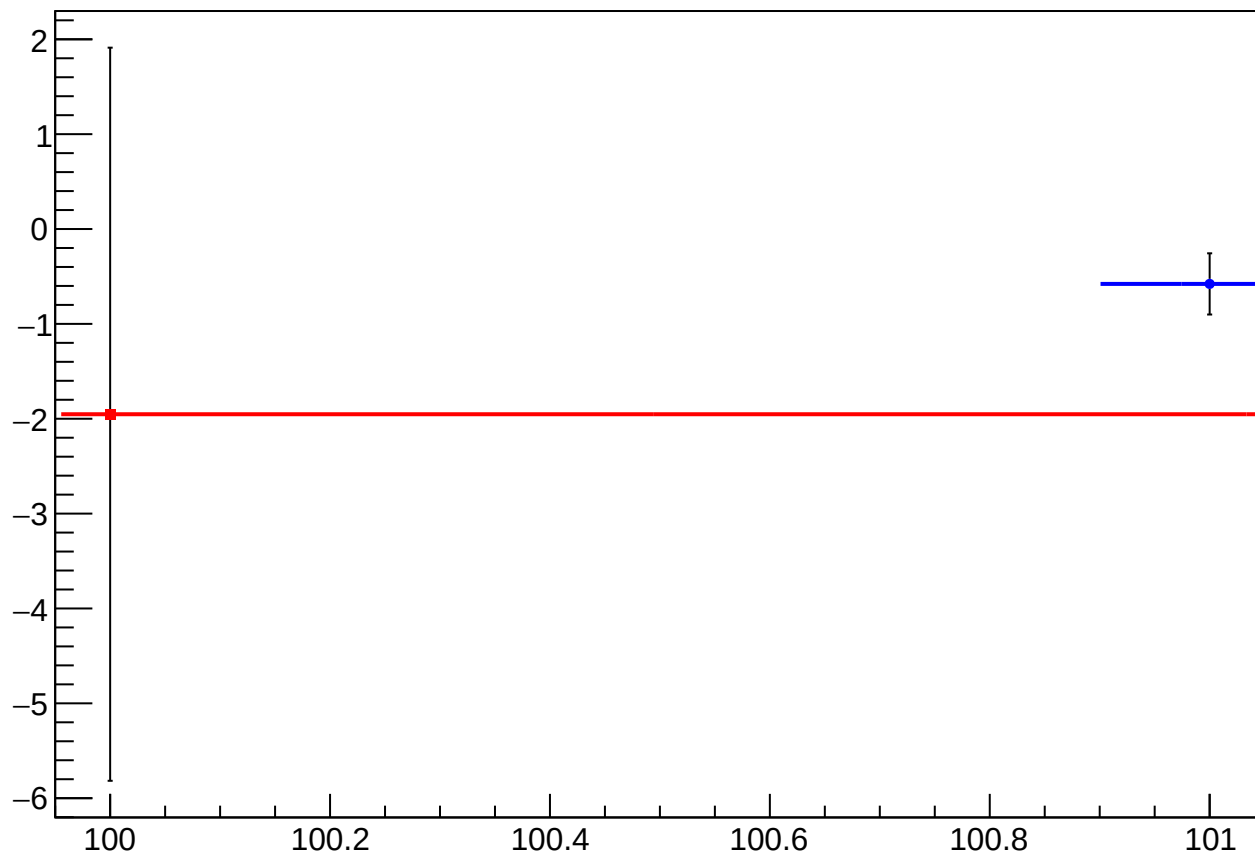
Right: 241.864 $\pm$ 0.227  $\chi^2$ /NDF: 74419.3/1

In: 236.687 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 241.864 $\pm$ 0.227  $\chi^2$ /NDF: 74419.3/1

asym\_atr1\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.579+/-0.323  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.952+/-3.864  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

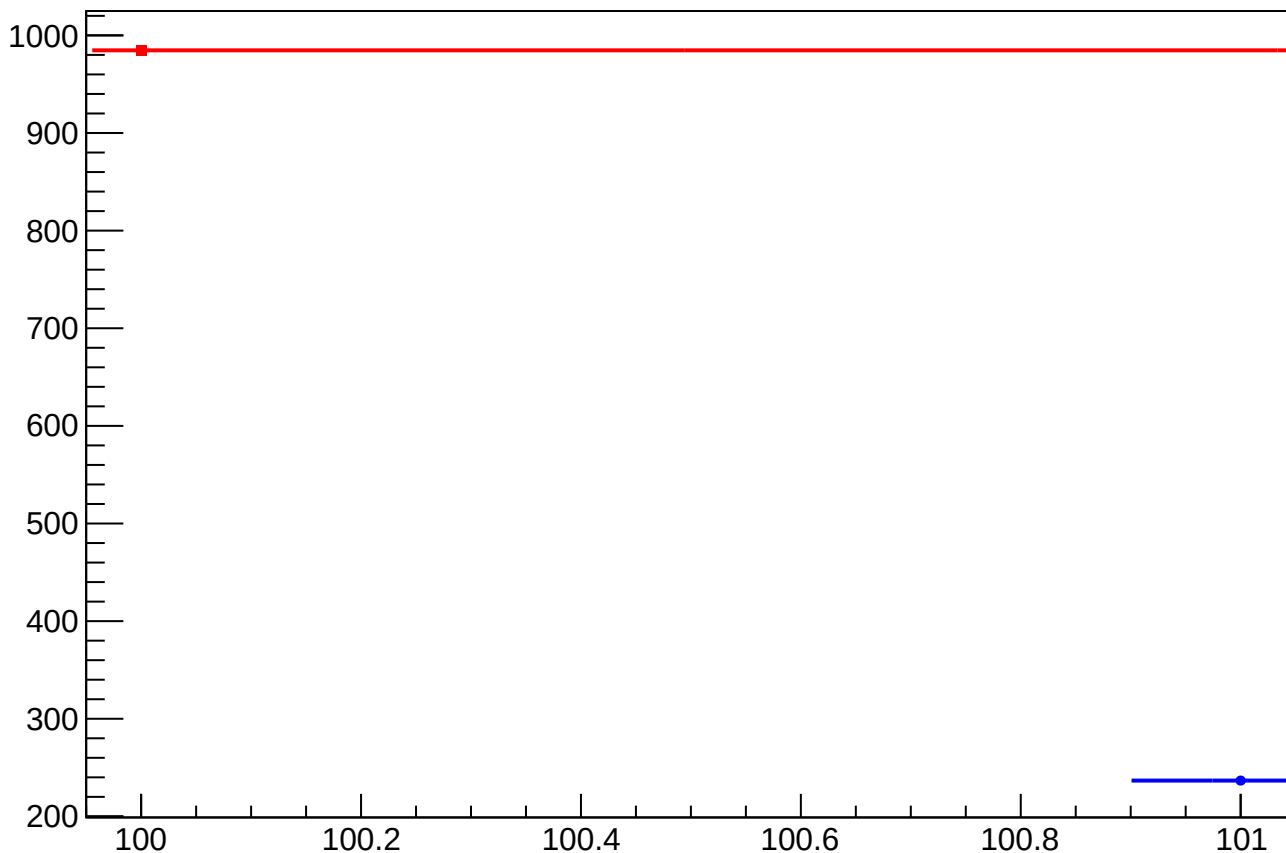
Right: -0.588+/-0.321  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.579+/-0.323  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.588+/-0.321  $\chi^2/\text{NDF}$ : 0.1/1

asym\_atr1\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 236.687 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 984.673 $\pm$ 2.732  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

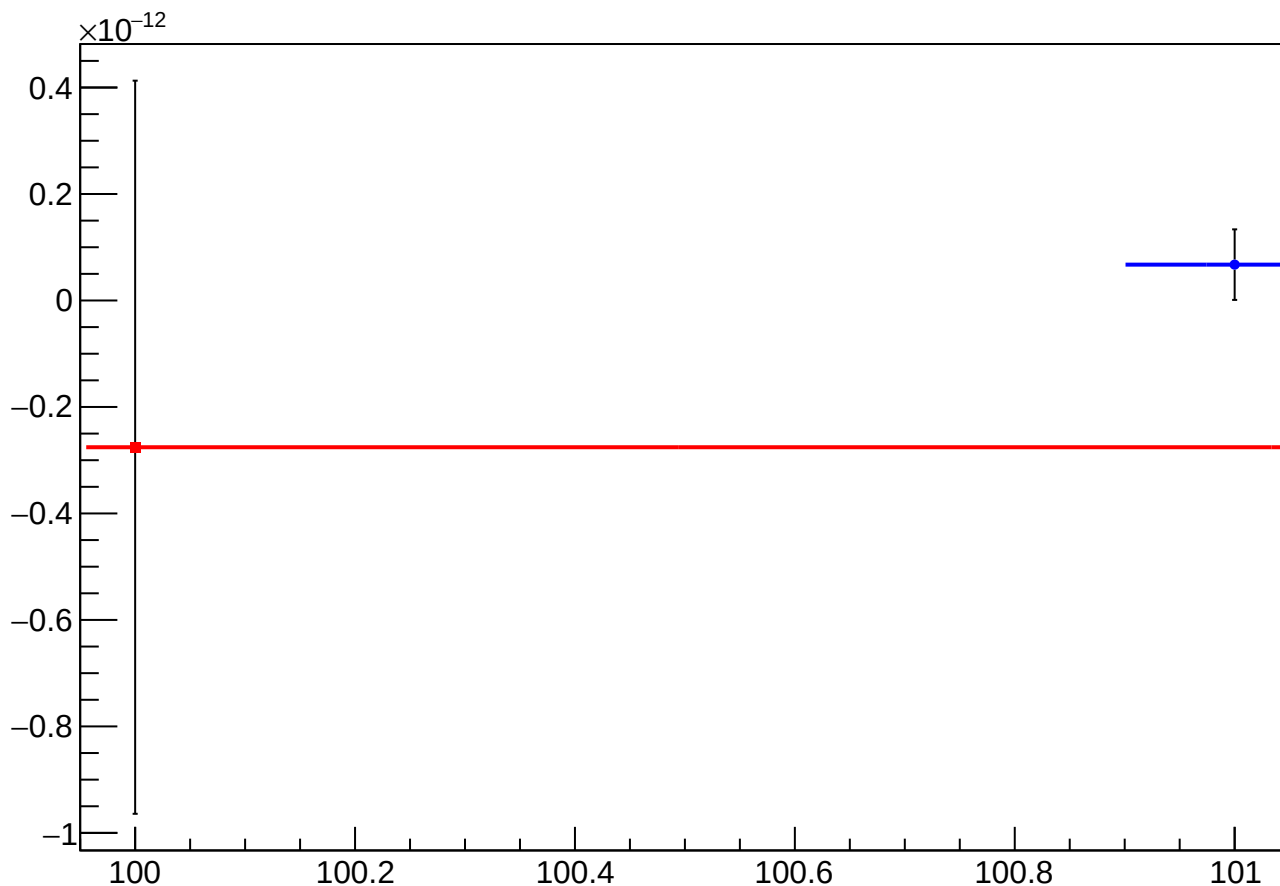
Right: 241.864 $\pm$ 0.227  $\chi^2$ /NDF: 74419.3/1

In: 236.687 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 241.864 $\pm$ 0.227  $\chi^2$ /NDF: 74419.3/1

asym\_atr1\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

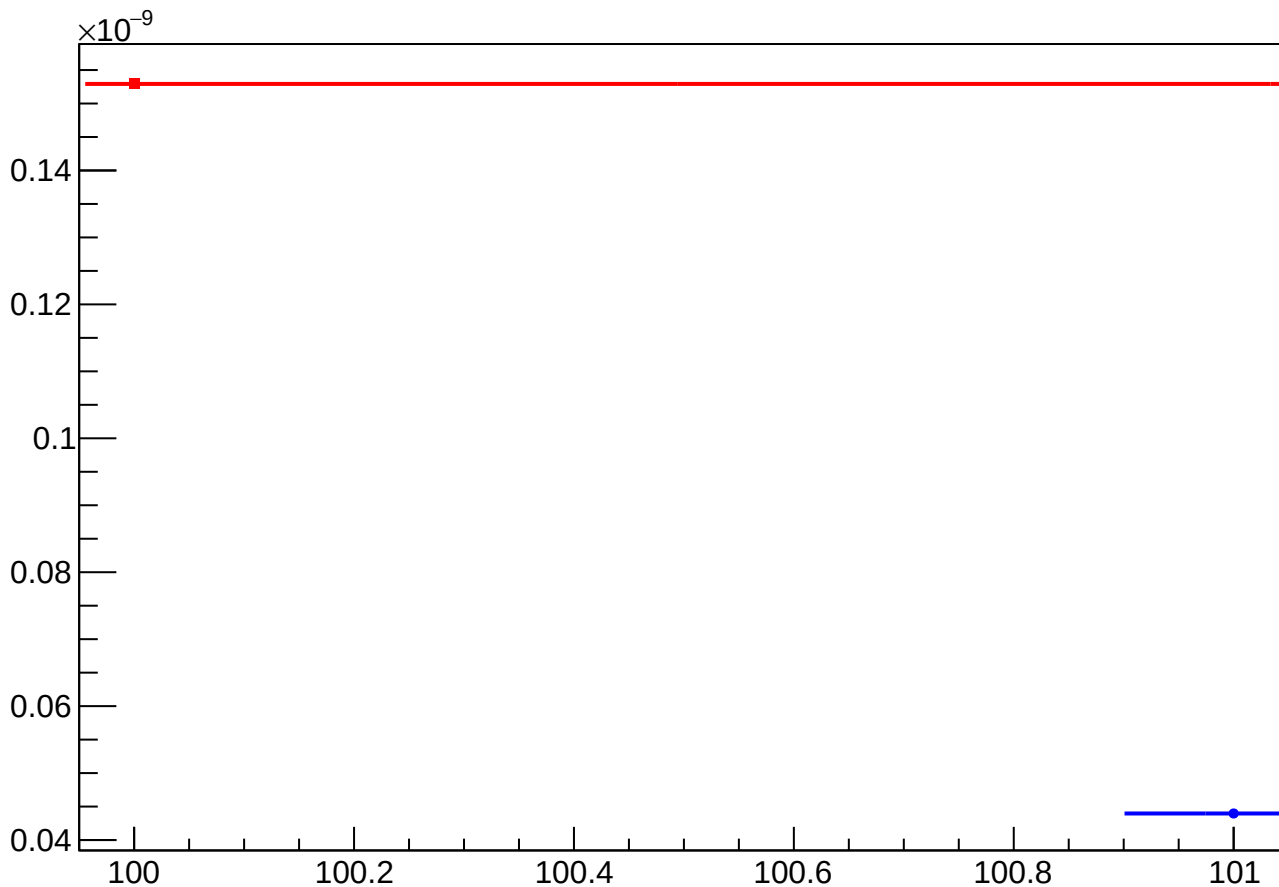
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

asym\_atr1\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 49629.1/1

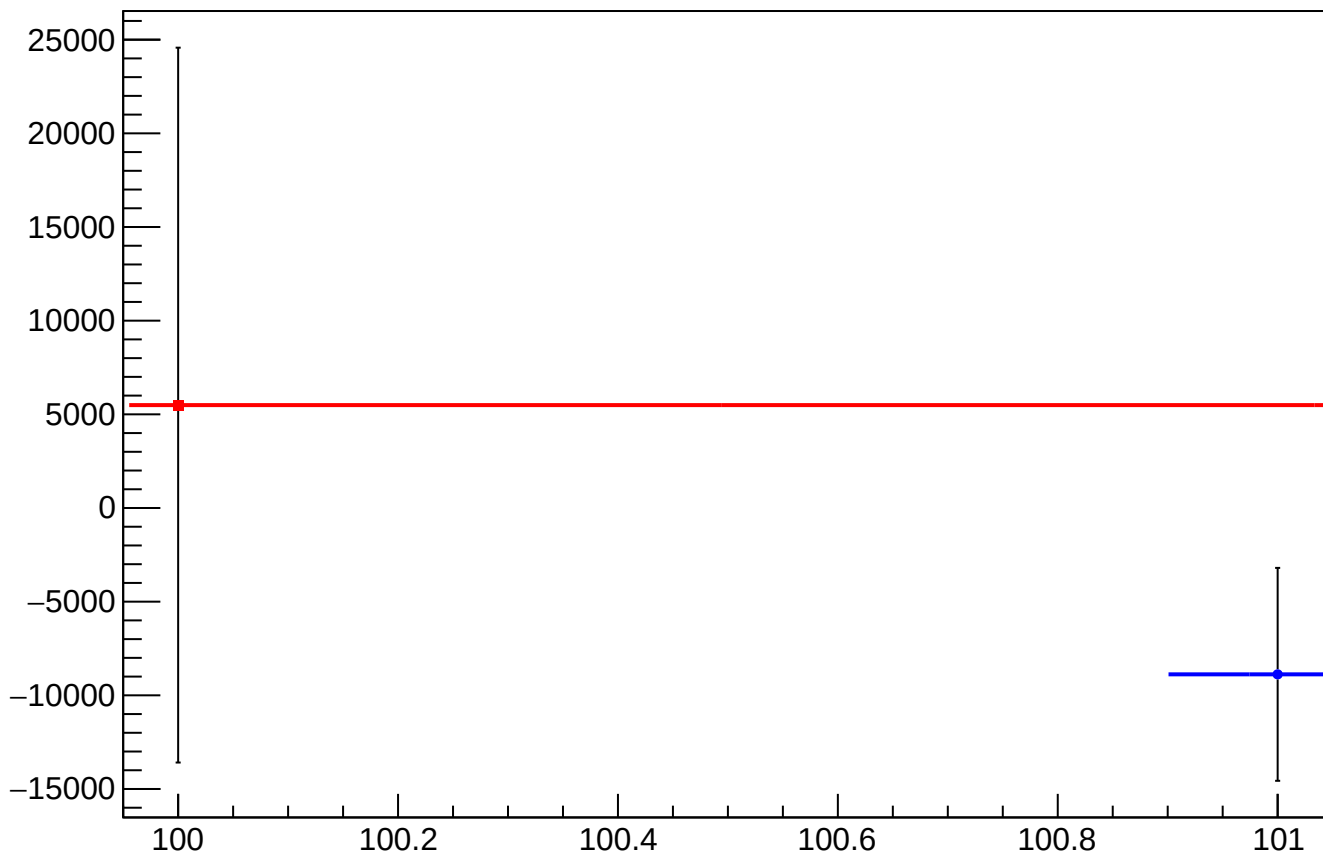
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 49629.1/1



# reg\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: -8880.032±/-5682.775  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5492.756±/-19080.624  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

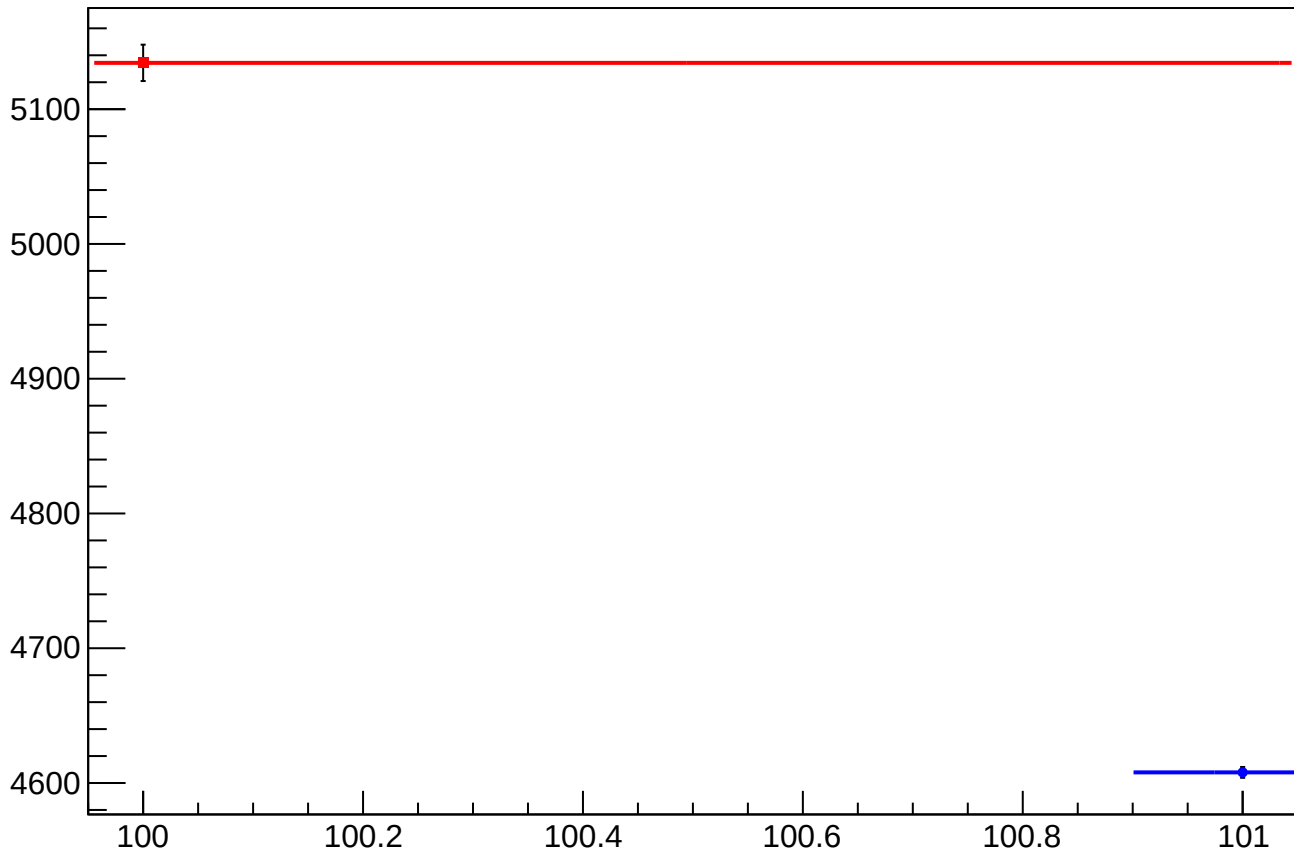
Right: -7709.003±/-5446.354  $\chi^2/\text{NDF}$ : 0.5/1

In: -8880.032±/-5682.775  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7709.003±/-5446.354  $\chi^2/\text{NDF}$ : 0.5/1

# reg\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 4607.879+/-4.018  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5134.383+/-13.492  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

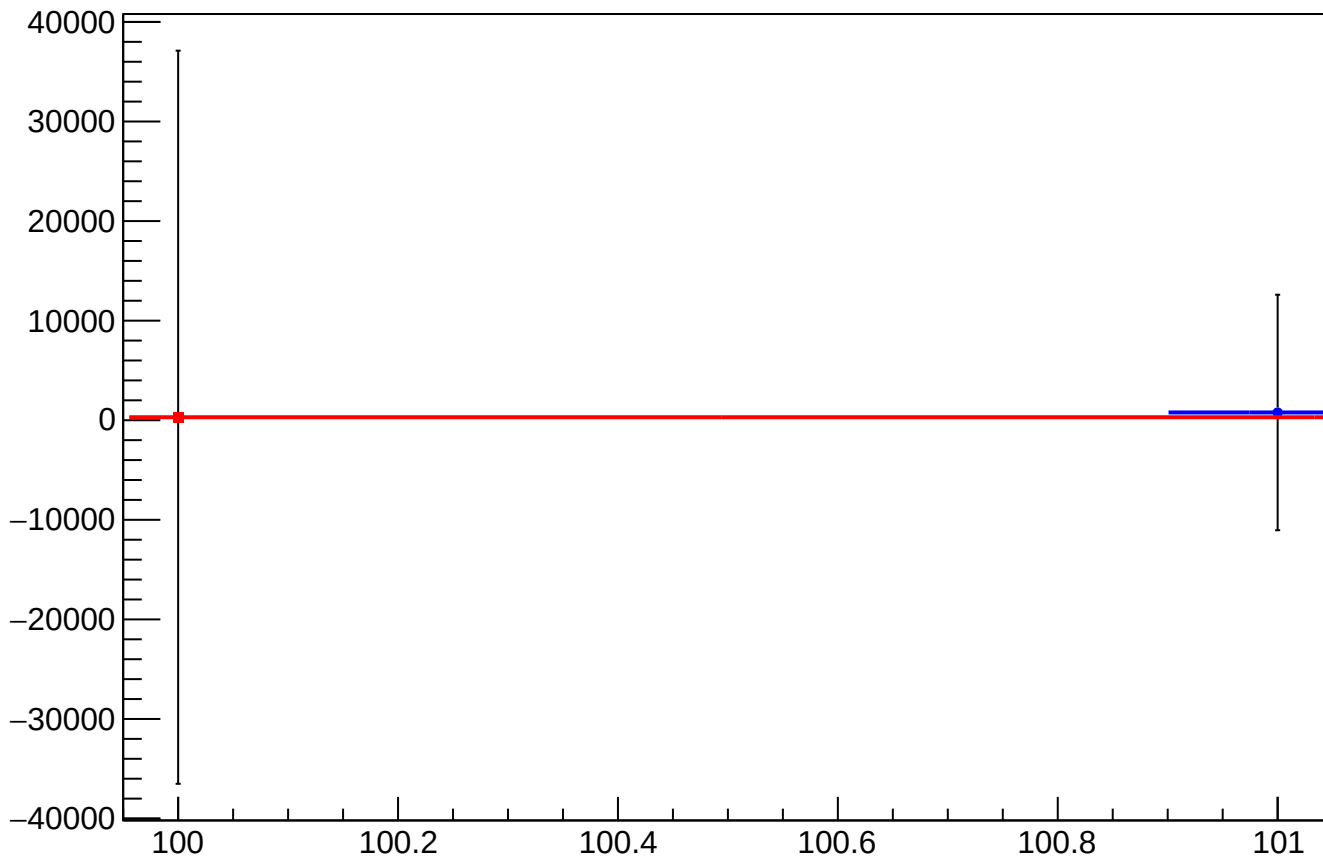
Right: 4650.776+/-3.851  $\chi^2/\text{NDF}$ : 1398.7/1

In: 4607.879+/-4.018  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4650.776+/-3.851  $\chi^2/\text{NDF}$ : 1398.7/1

asym\_atr2\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 780.624 $\pm$ 11825.767  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 301.742 $\pm$ 36812.064  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

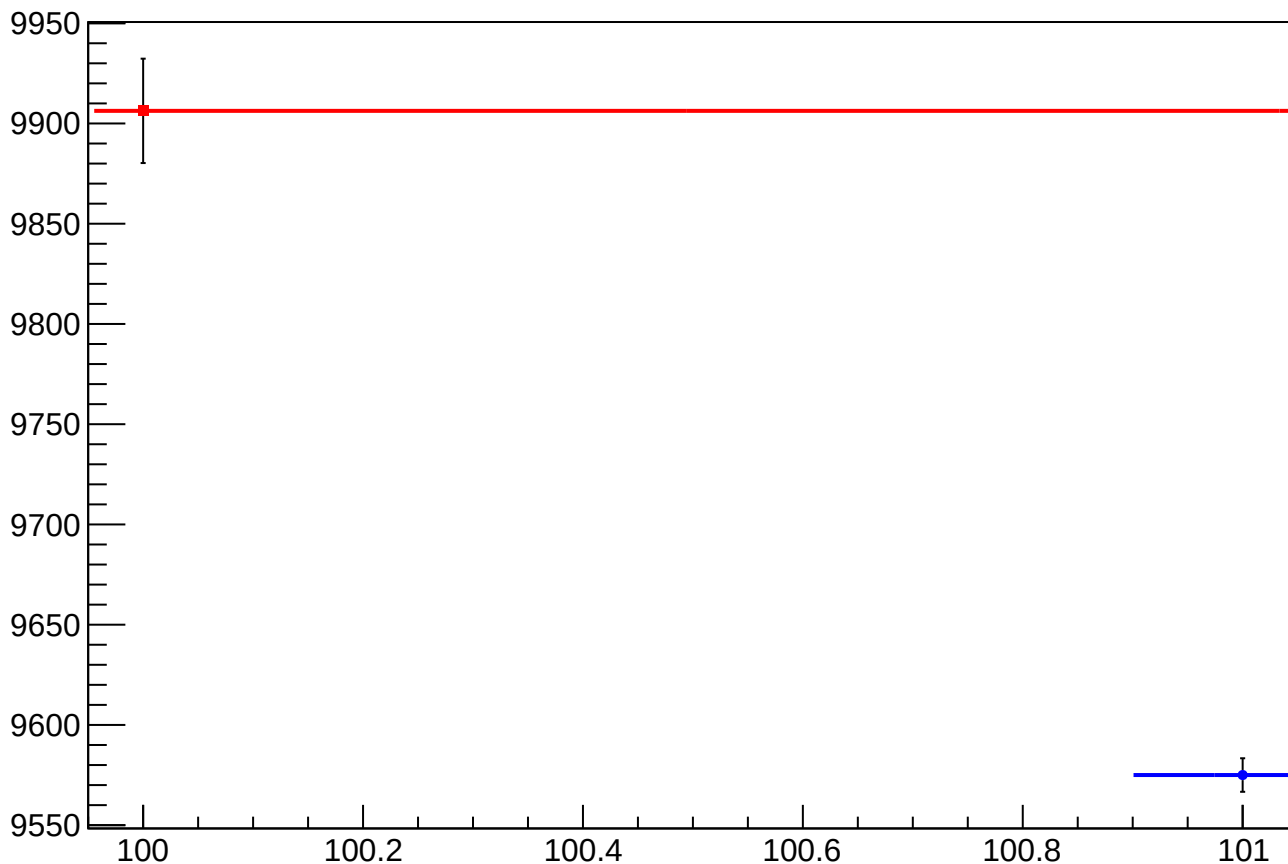
Right: 735.827 $\pm$ 11259.063  $\chi^2$ /NDF: 0.0/1

In: 780.624 $\pm$ 11825.767  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 735.827 $\pm$ 11259.063  $\chi^2$ /NDF: 0.0/1

asym\_atr2\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 9575.014 $\pm$ 8.362  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9906.289 $\pm$ 26.030  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

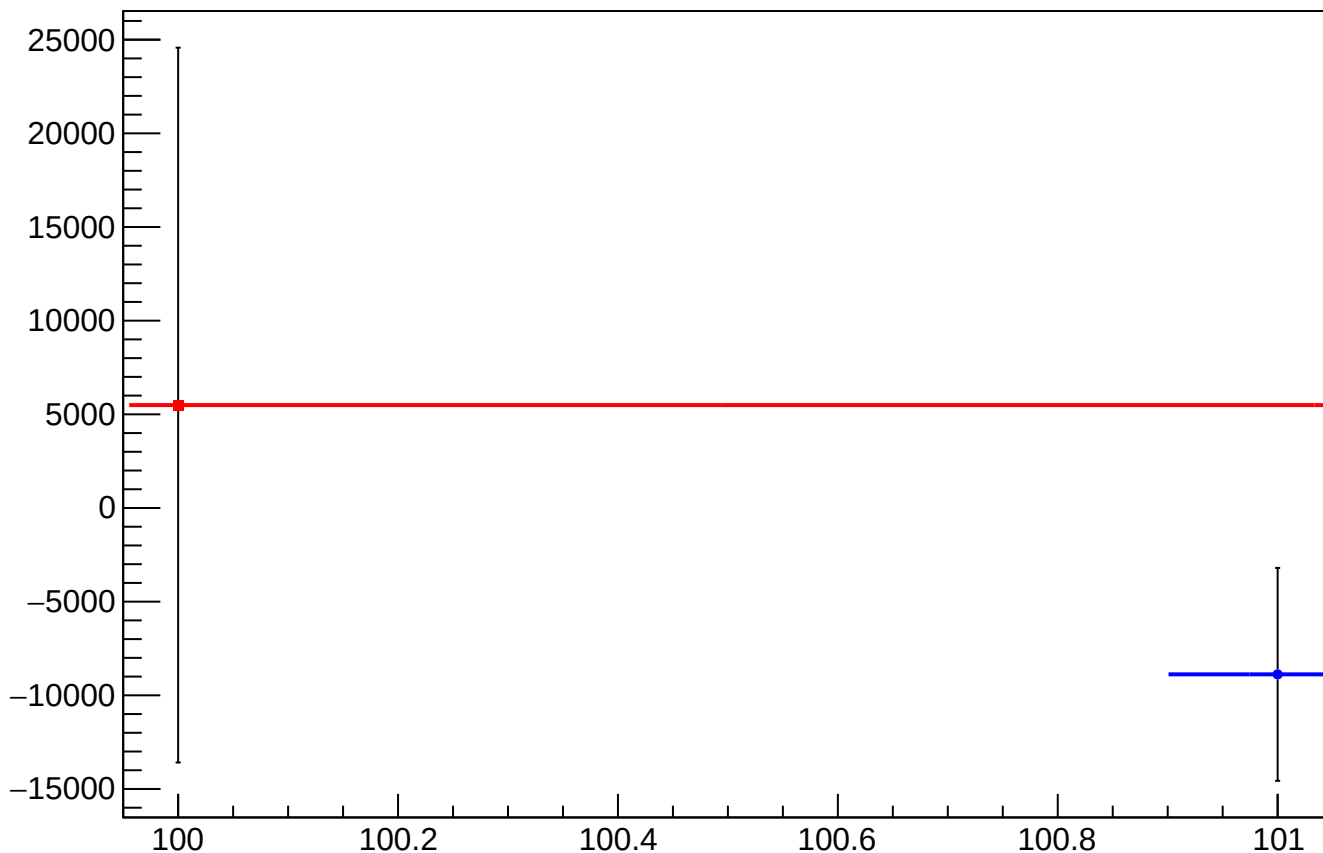
Right: 9606.004 $\pm$ 7.961  $\chi^2/\text{NDF}$ : 146.8/1

In: 9575.014 $\pm$ 8.362  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9606.004 $\pm$ 7.961  $\chi^2/\text{NDF}$ : 146.8/1

# cor\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: -8880.492+/-5682.775  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5493.095+/-19080.624  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

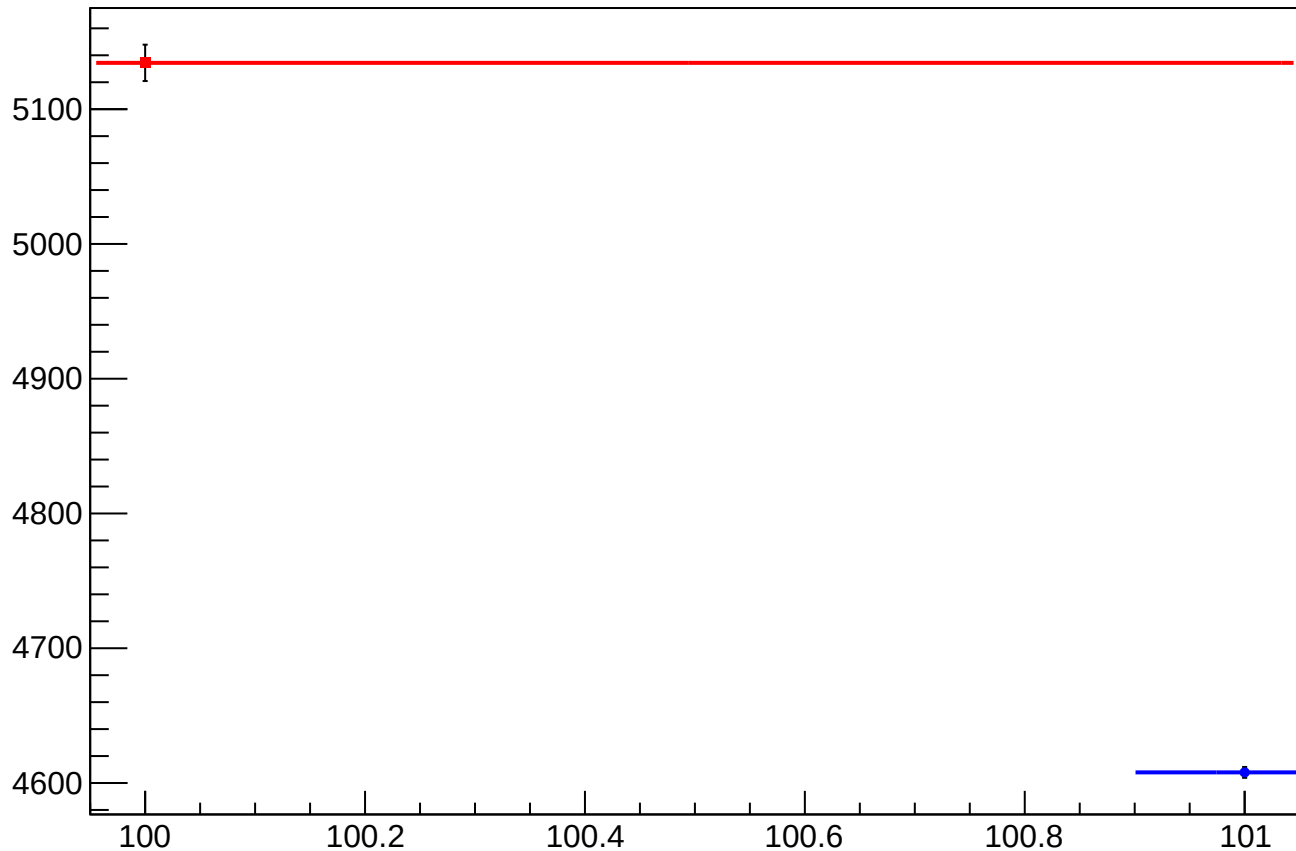
Right: -7709.398+/-5446.354  $\chi^2/\text{NDF}$ : 0.5/1

In: -8880.492+/-5682.775  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7709.398+/-5446.354  $\chi^2/\text{NDF}$ : 0.5/1

# cor\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 4607.879+/-4.018  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5134.383+/-13.492  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

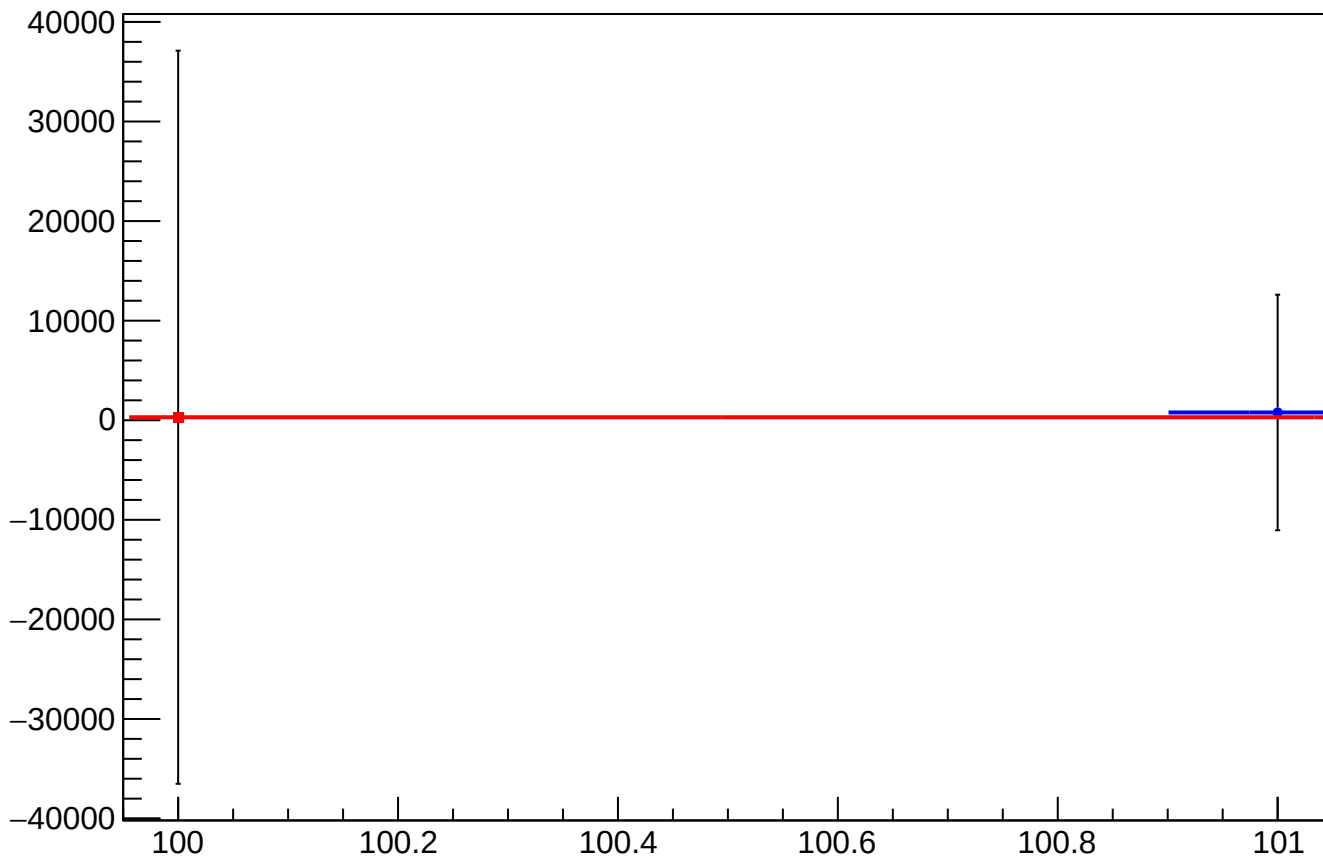
Right: 4650.776+/-3.851  $\chi^2/\text{NDF}$ : 1398.7/1

In: 4607.879+/-4.018  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4650.776+/-3.851  $\chi^2/\text{NDF}$ : 1398.7/1

asym\_atr2\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 780.513+/-11825.760  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 302.129+/-36812.023  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

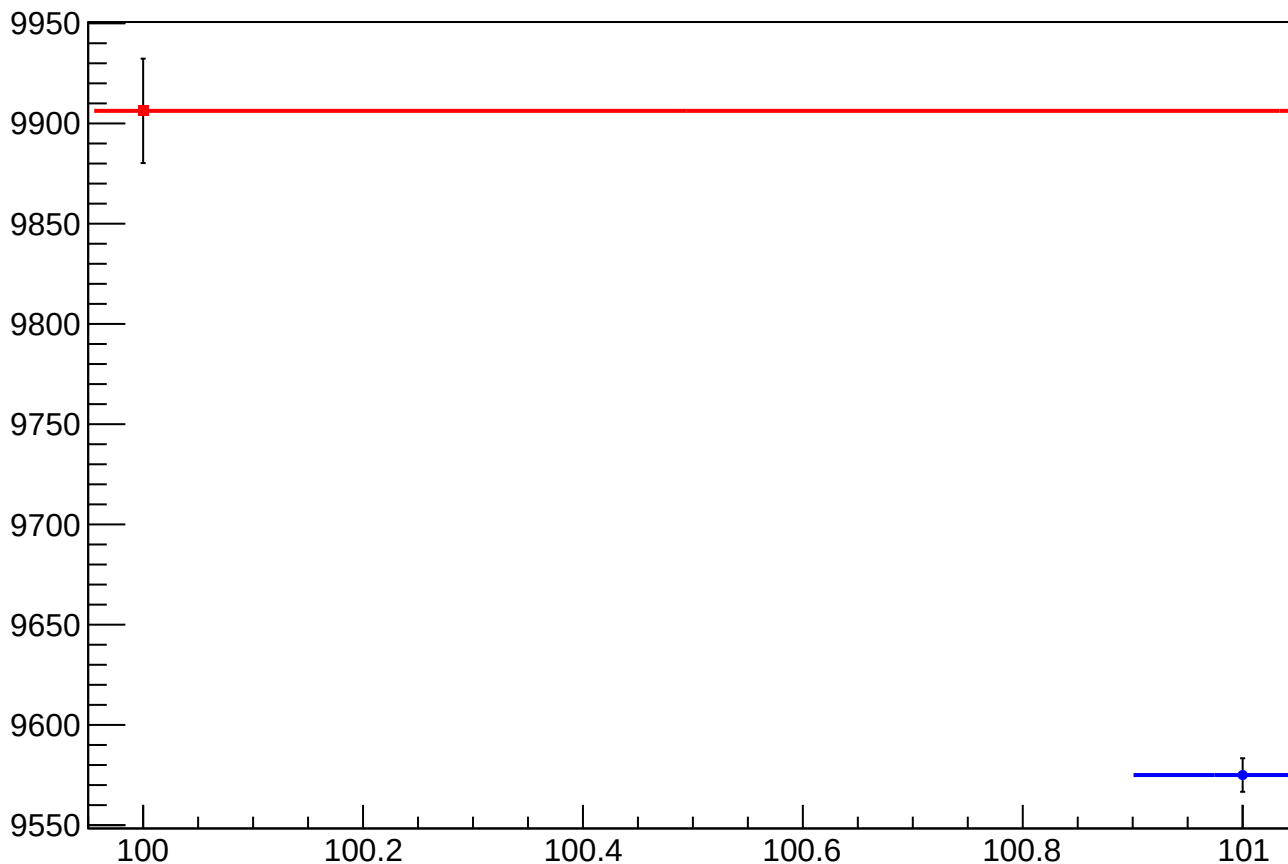
Right: 735.763+/-11259.056  $\chi^2/\text{NDF}$ : 0.0/1

In: 780.513+/-11825.760  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 735.763+/-11259.056  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr2\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 9575.008 $\pm$ 8.362  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9906.278 $\pm$ 26.030  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 9605.997 $\pm$ 7.961  $\chi^2$ /NDF: 146.8/1

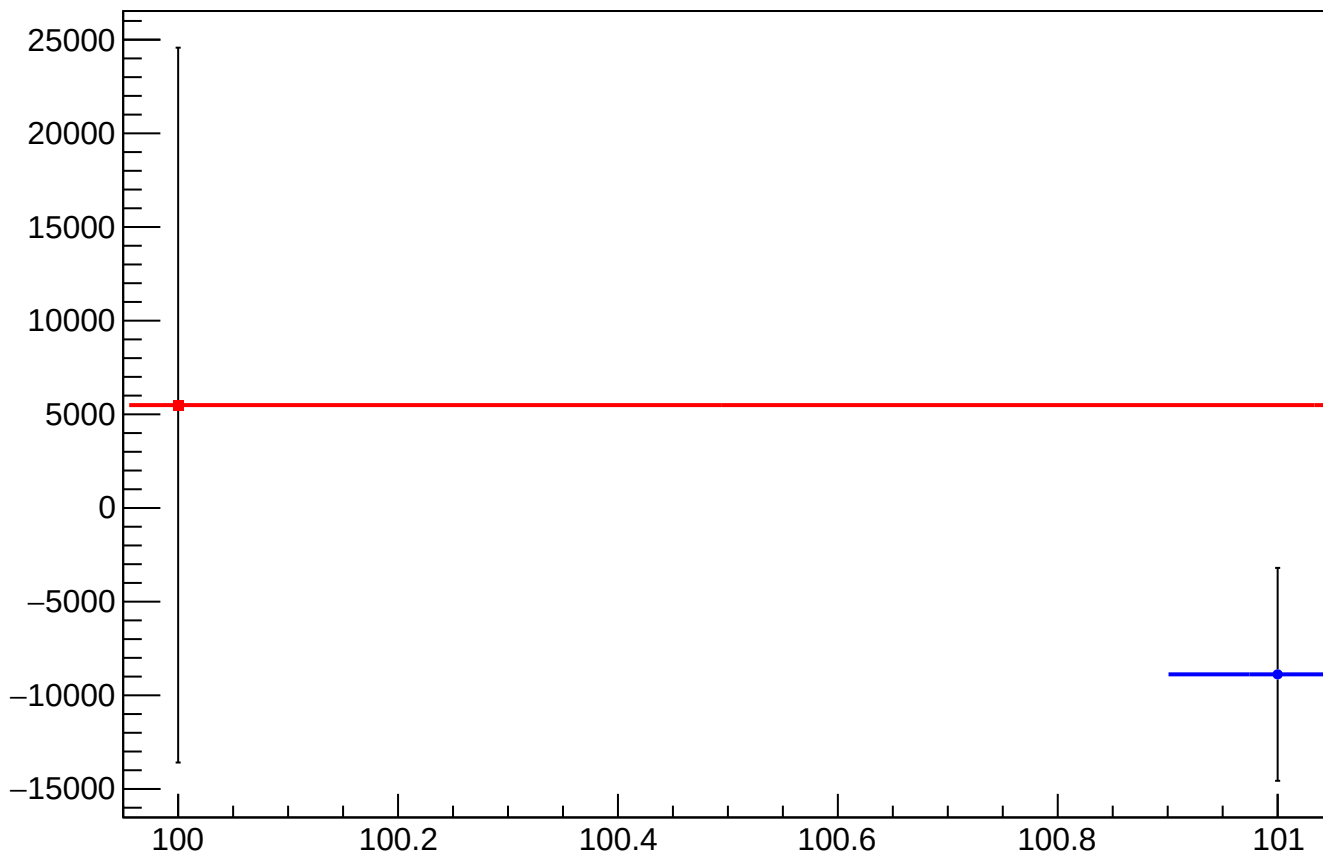
In: 9575.008 $\pm$ 8.362  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9605.997 $\pm$ 7.961  $\chi^2$ /NDF: 146.8/1



eigen\_cor\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: -8880.492+/-5682.775  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5493.095+/-19080.624  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

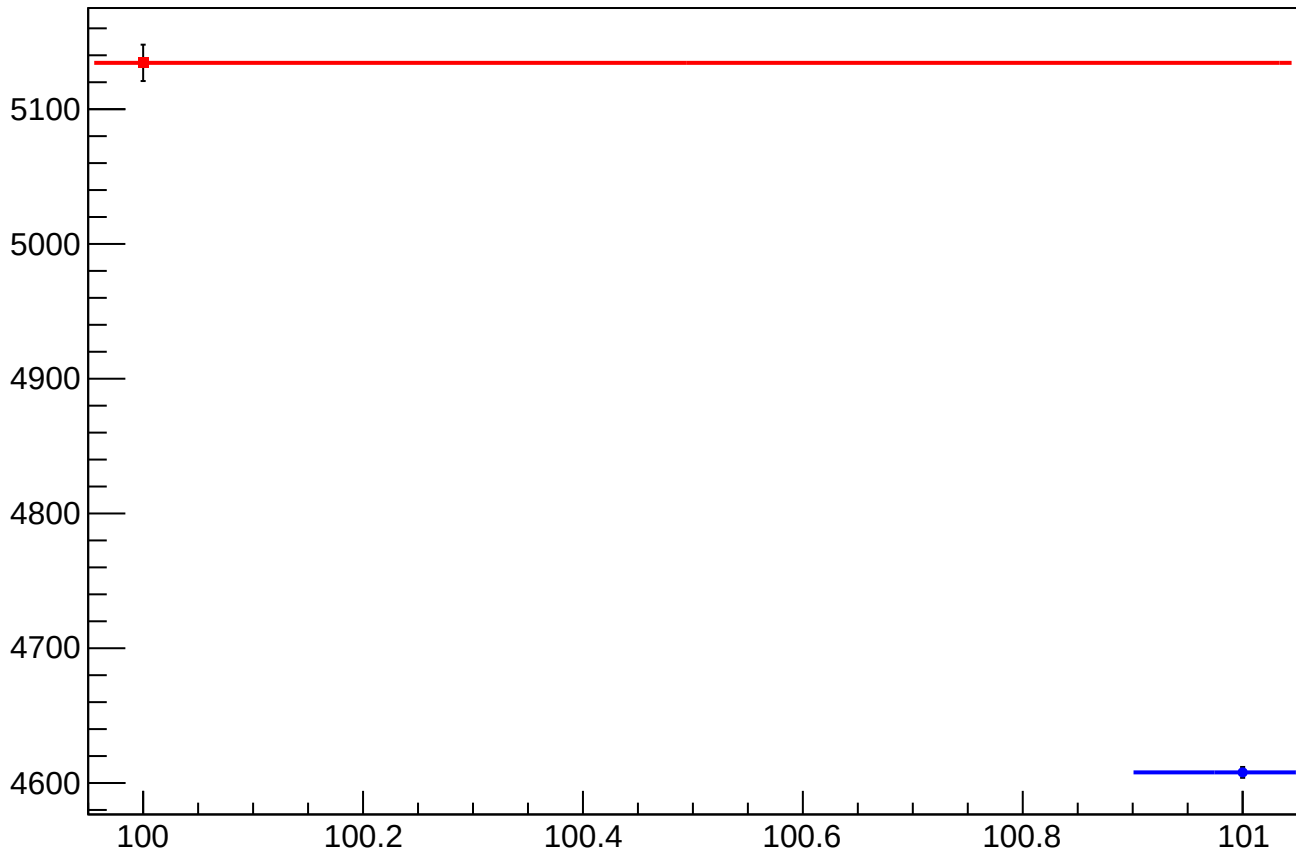
Right: -7709.398+/-5446.354  $\chi^2/\text{NDF}$ : 0.5/1

In: -8880.492+/-5682.775  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7709.398+/-5446.354  $\chi^2/\text{NDF}$ : 0.5/1

# eigen\_cor\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 4607.879+/-4.018  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5134.383+/-13.492  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

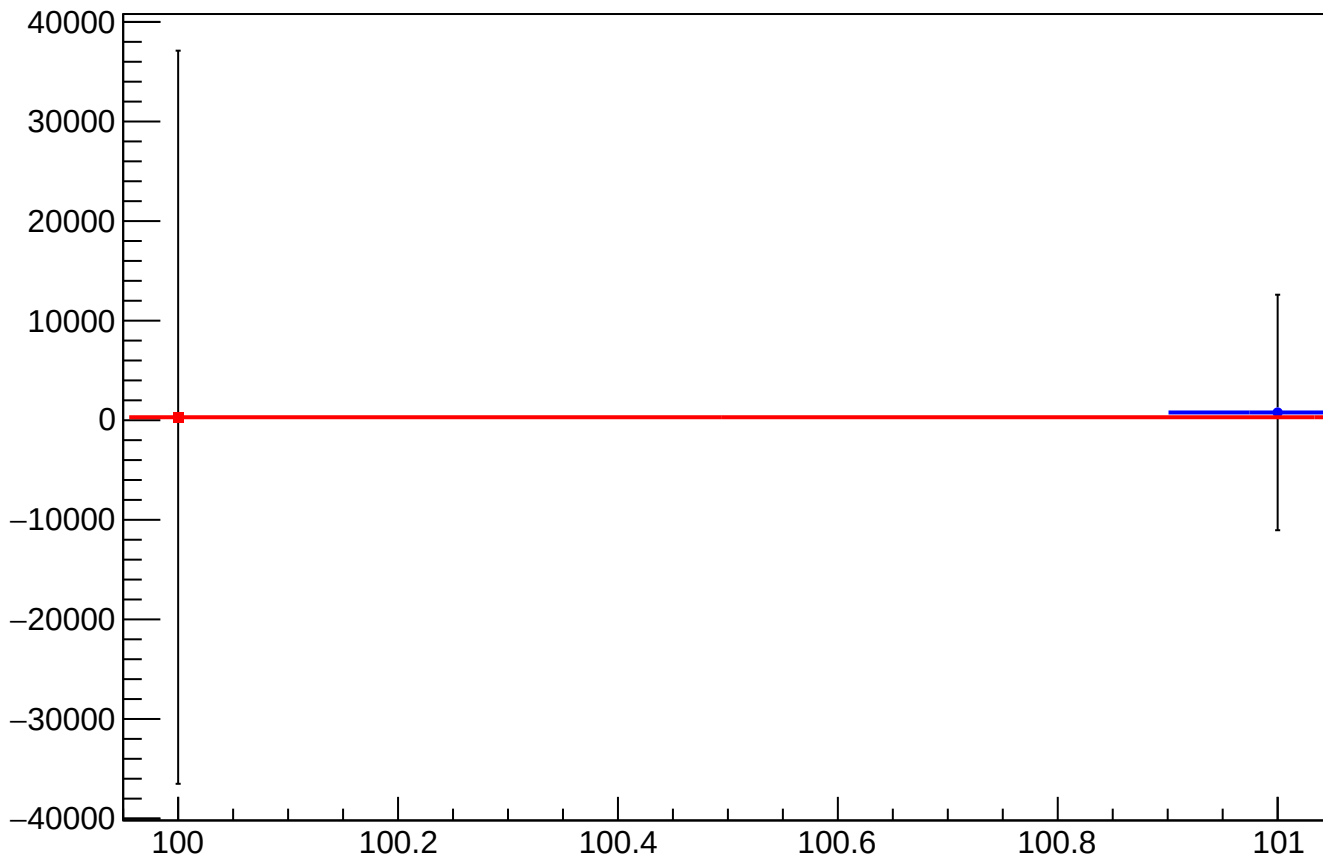
Right: 4650.776+/-3.851  $\chi^2/\text{NDF}$ : 1398.7/1

In: 4607.879+/-4.018  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4650.776+/-3.851  $\chi^2/\text{NDF}$ : 1398.7/1

asym\_atr2\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 780.513+/-11825.760  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 302.129+/-36812.023  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

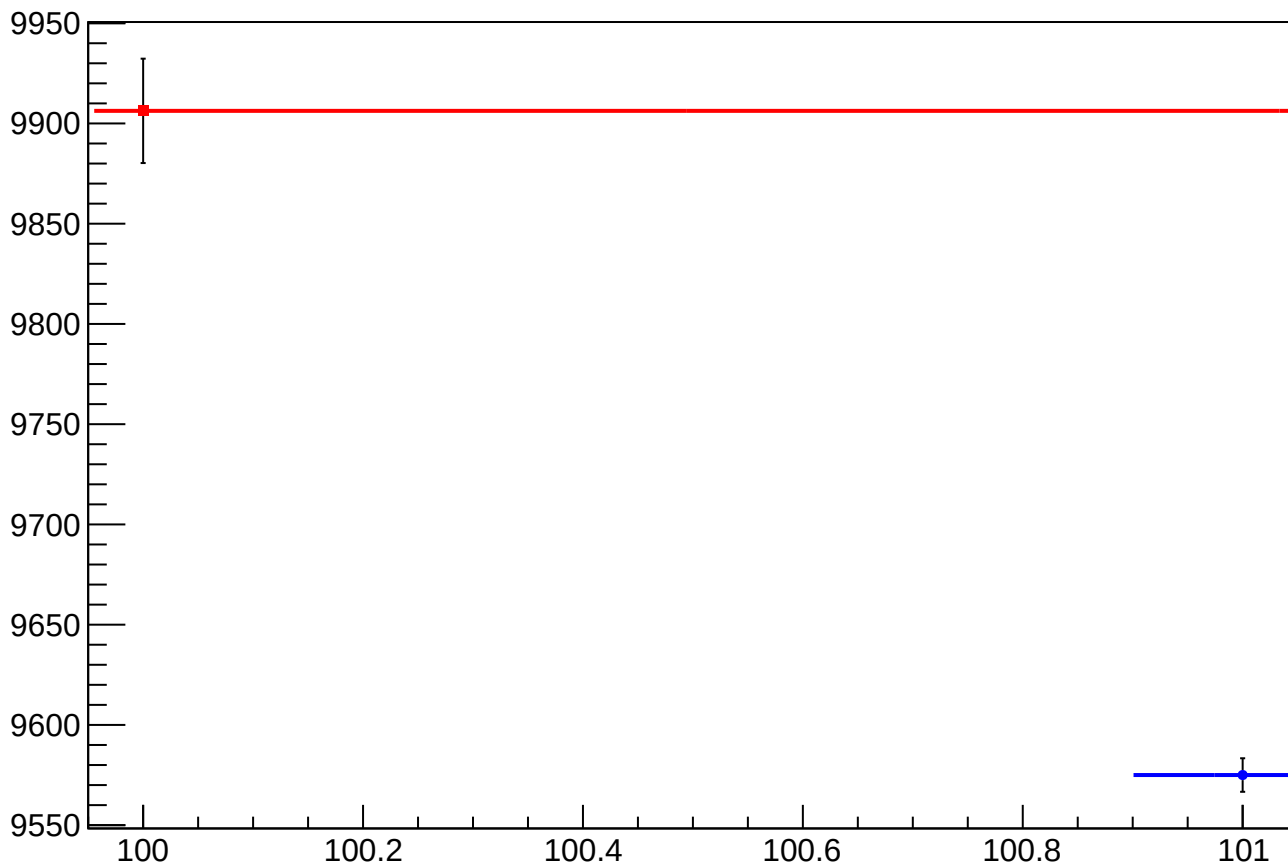
Right: 735.763+/-11259.056  $\chi^2/\text{NDF}$ : 0.0/1

In: 780.513+/-11825.760  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 735.763+/-11259.056  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr2\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 9575.008 $\pm$ 8.362  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9906.278 $\pm$ 26.030  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

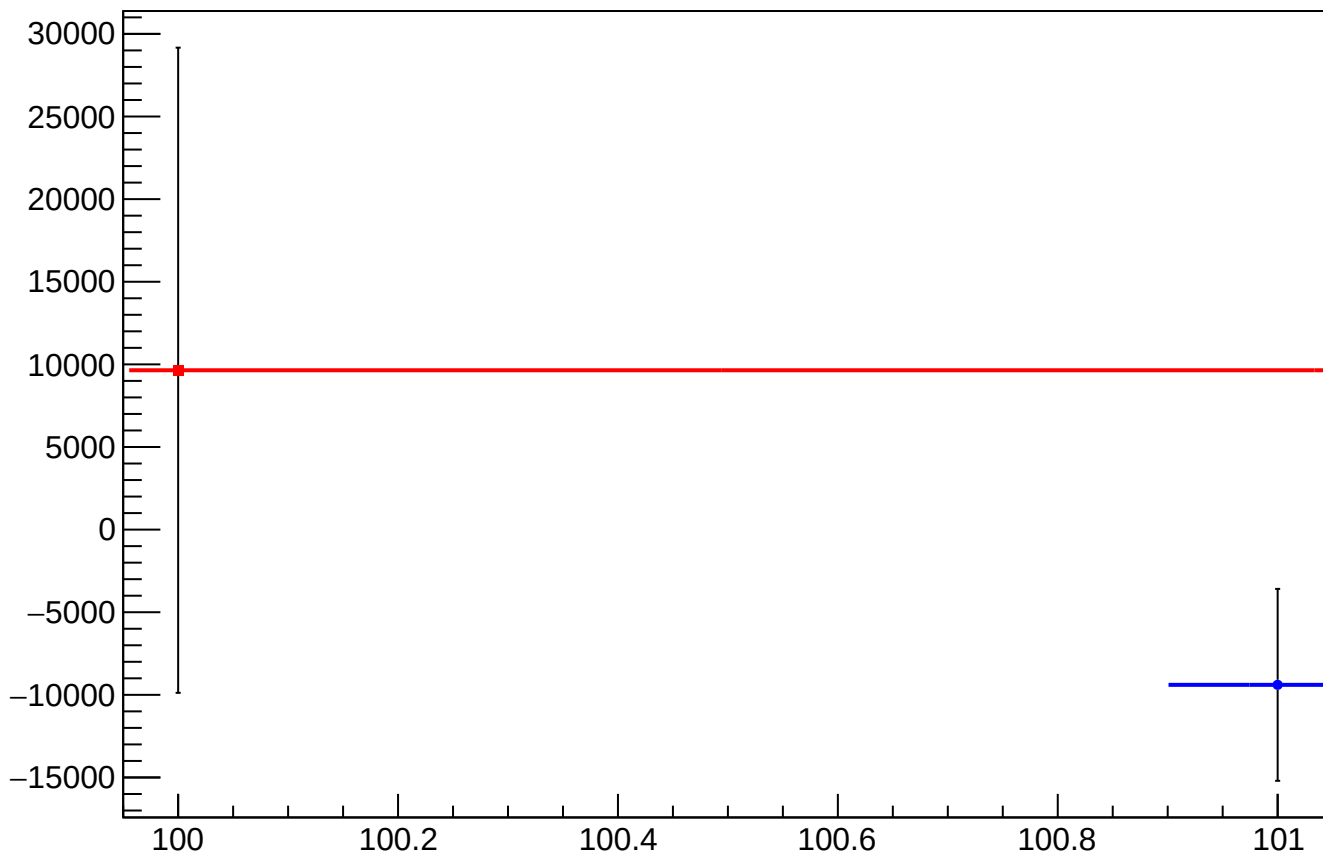
Right: 9605.997 $\pm$ 7.961  $\chi^2$ /NDF: 146.8/1

In: 9575.008 $\pm$ 8.362  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9605.997 $\pm$ 7.961  $\chi^2$ /NDF: 146.8/1

# dit\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: -9394.572+/-5806.979  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9643.551+/-19522.818  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

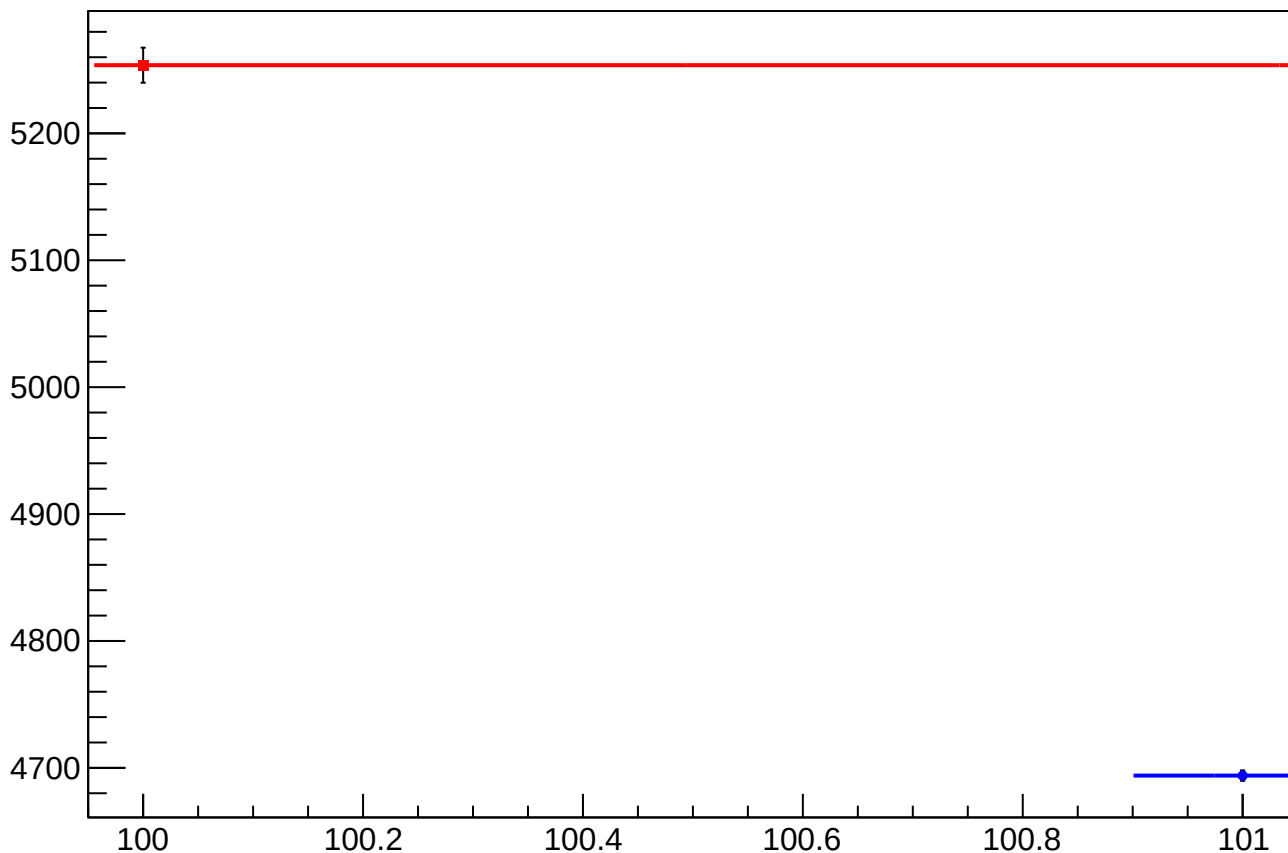
Right: -7847.104+/-5565.975  $\chi^2/\text{NDF}$ : 0.9/1

In: -9394.572+/-5806.979  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7847.104+/-5565.975  $\chi^2/\text{NDF}$ : 0.9/1

# dit\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 4693.921 $\pm$ 4.106  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5253.721 $\pm$ 13.805  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

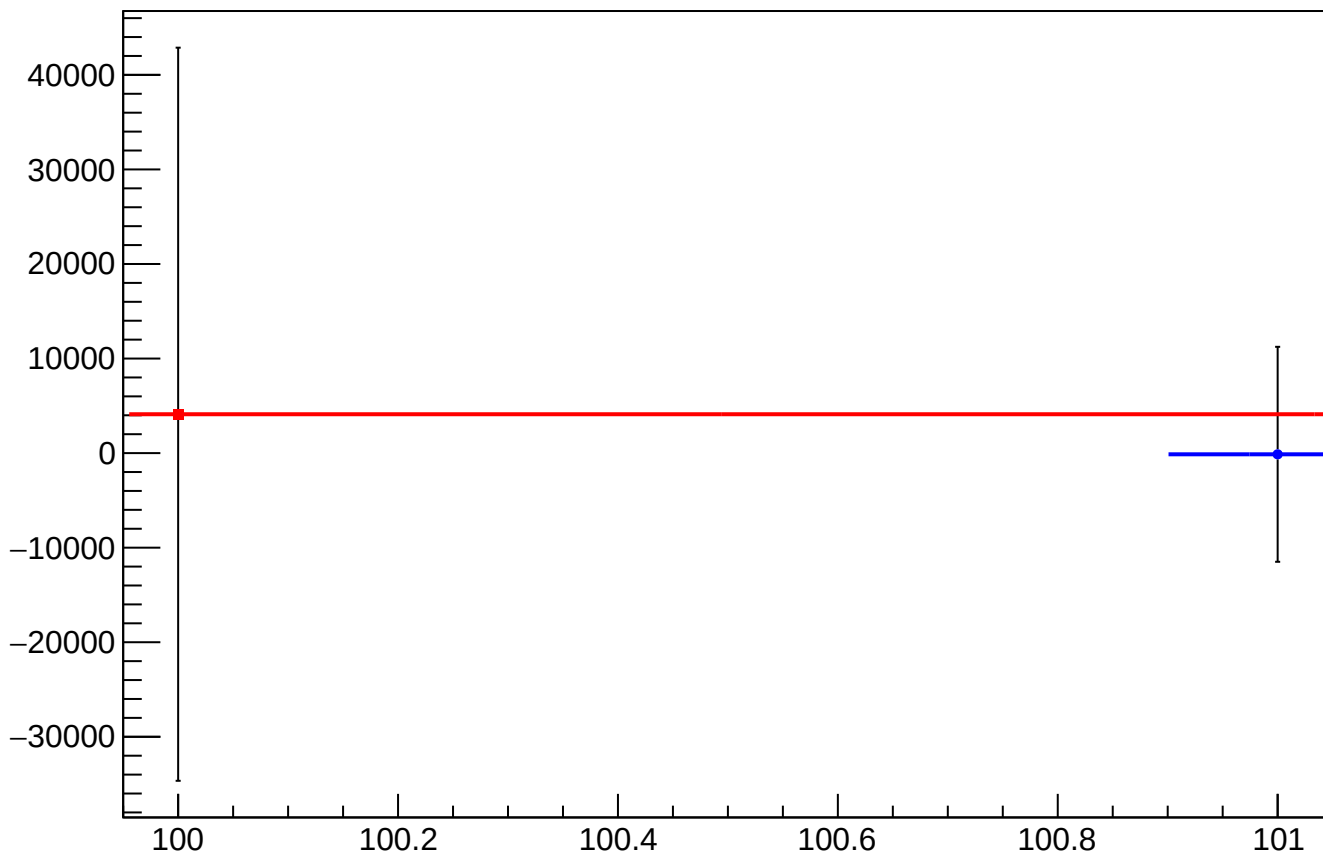
Right: 4739.423 $\pm$ 3.936  $\chi^2$ /NDF: 1510.8/1

In: 4693.921 $\pm$ 4.106  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4739.423 $\pm$ 3.936  $\chi^2$ /NDF: 1510.8/1

asym\_atr2\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -126.347 $\pm$ 11367.095  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4111.084 $\pm$ 38765.332  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

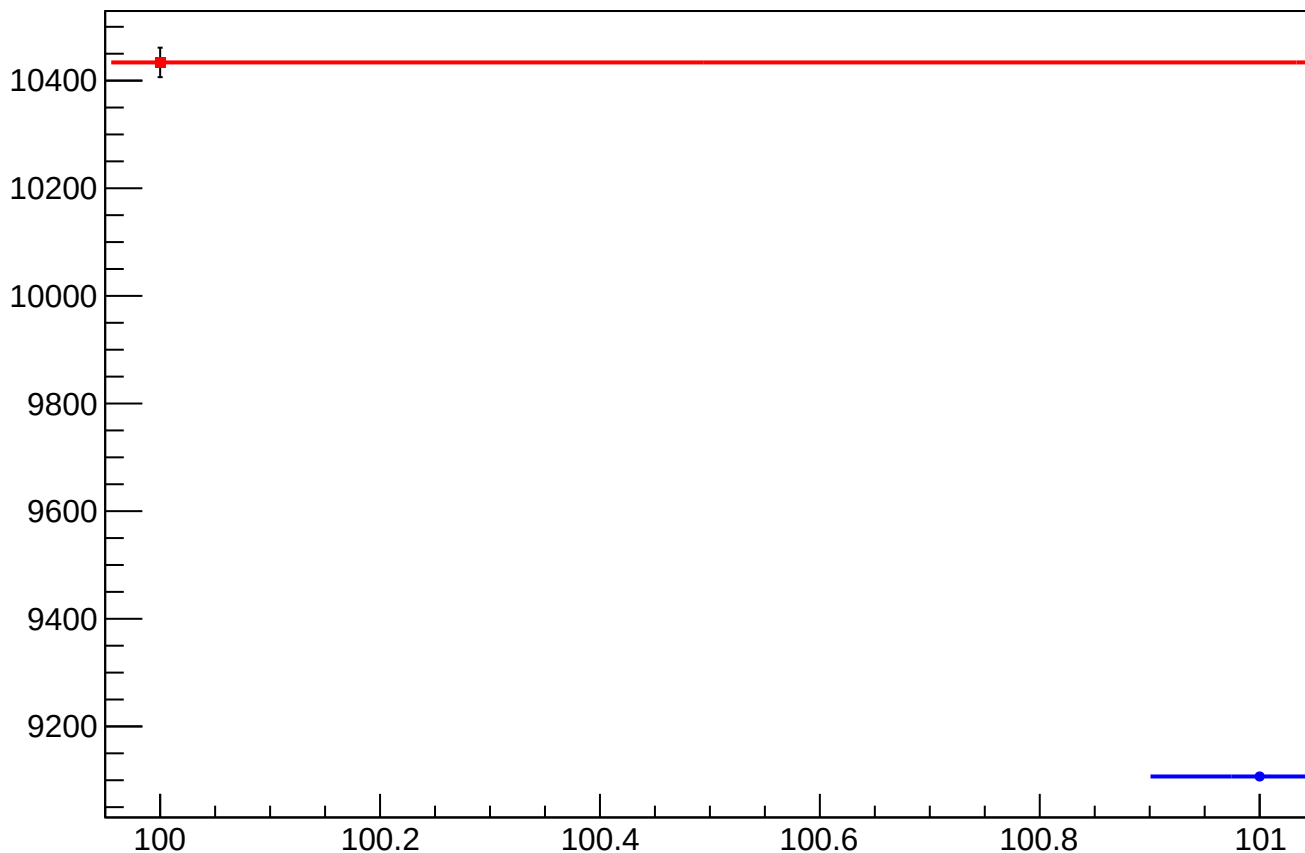
Right: 209.152 $\pm$ 10907.821  $\chi^2/\text{NDF}$ : 0.0/1

In: -126.347 $\pm$ 11367.095  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 209.152 $\pm$ 10907.821  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_atr2\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 9106.999+/-8.038  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10433.825+/-27.411  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 9212.051+/-7.713  $\chi^2/\text{NDF}$ : 2157.5/1

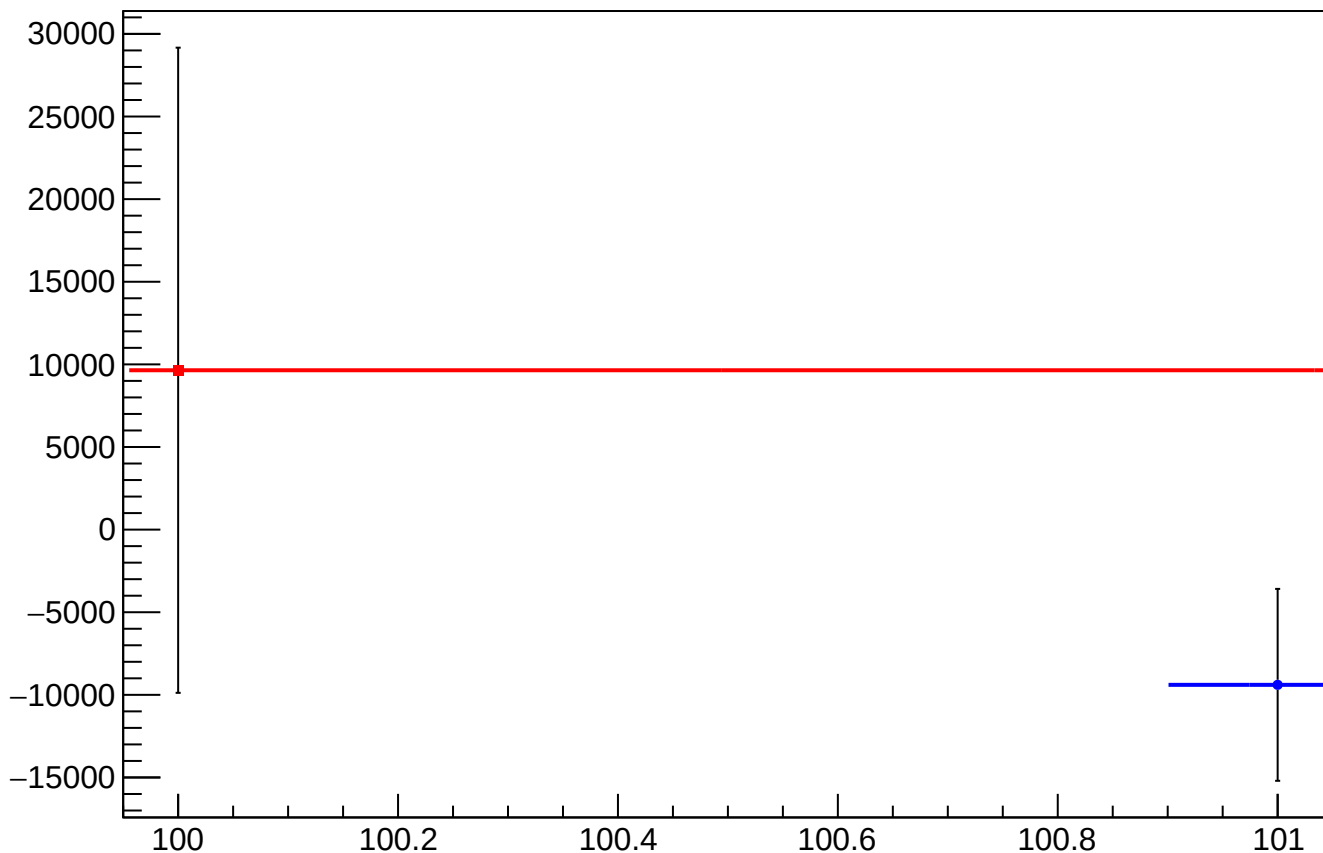
In: 9106.999+/-8.038  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9212.051+/-7.713  $\chi^2/\text{NDF}$ : 2157.5/1



eigen\_dit\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: -9394.657+/-5806.979  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9643.885+/-19522.825  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

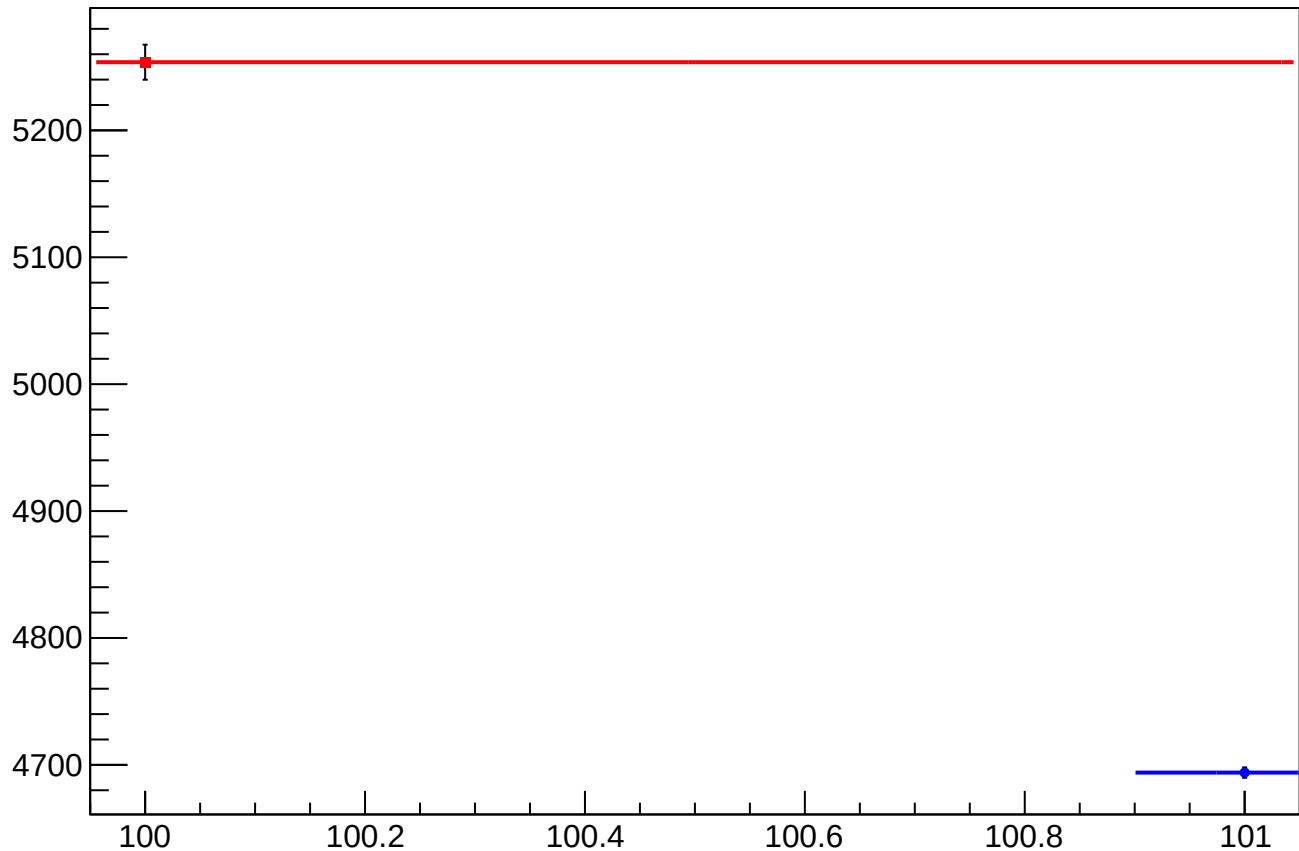
Right: -7847.157+/-5565.975  $\chi^2/\text{NDF}$ : 0.9/1

In: -9394.657+/-5806.979  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7847.157+/-5565.975  $\chi^2/\text{NDF}$ : 0.9/1

# eigen\_dit\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 4693.921+/-4.106  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5253.723+/-13.805  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

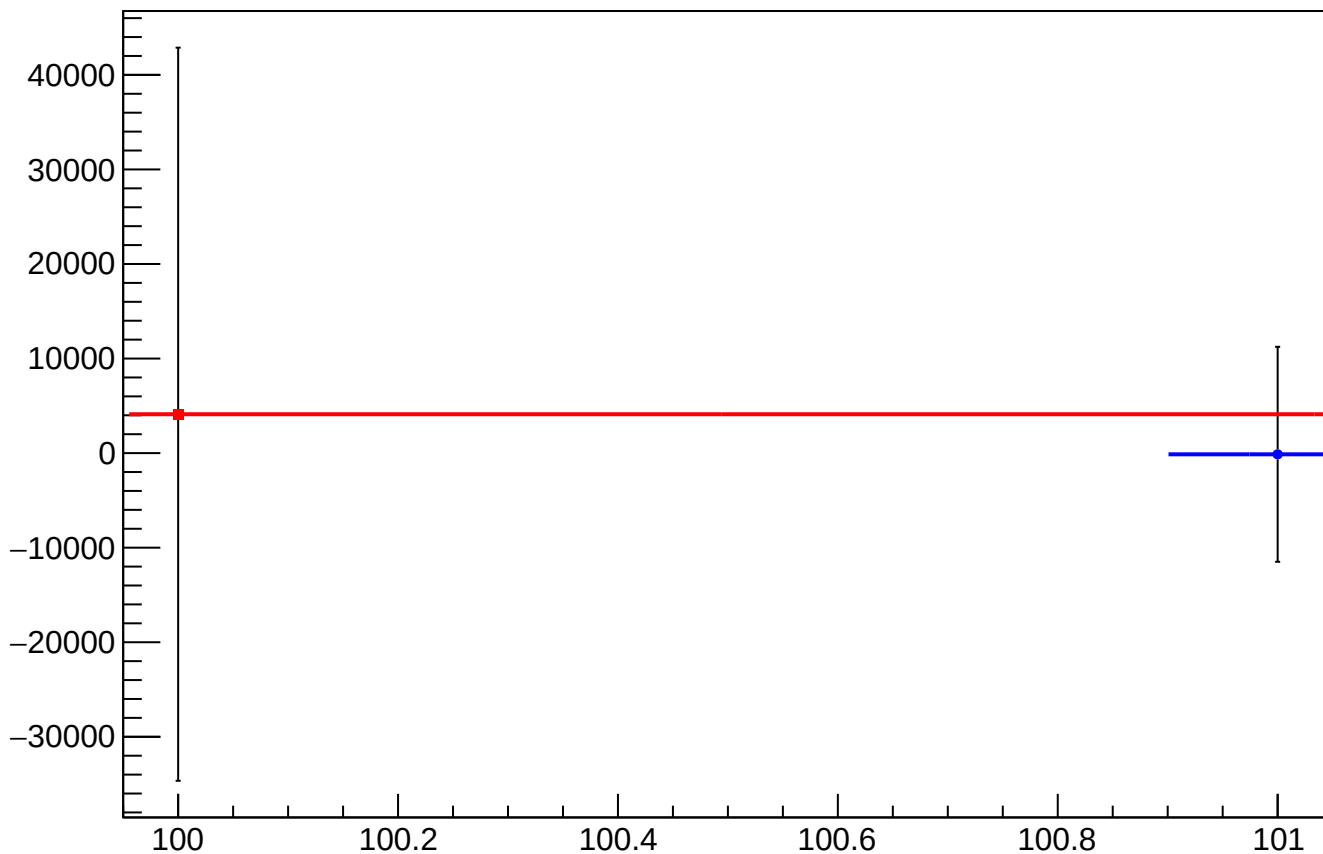
Right: 4739.423+/-3.936  $\chi^2/\text{NDF}$ : 1510.8/1

In: 4693.921+/-4.106  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4739.423+/-3.936  $\chi^2/\text{NDF}$ : 1510.8/1

asym\_atr2\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -126.410 $\pm$ 11367.081  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4111.416 $\pm$ 38765.226  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

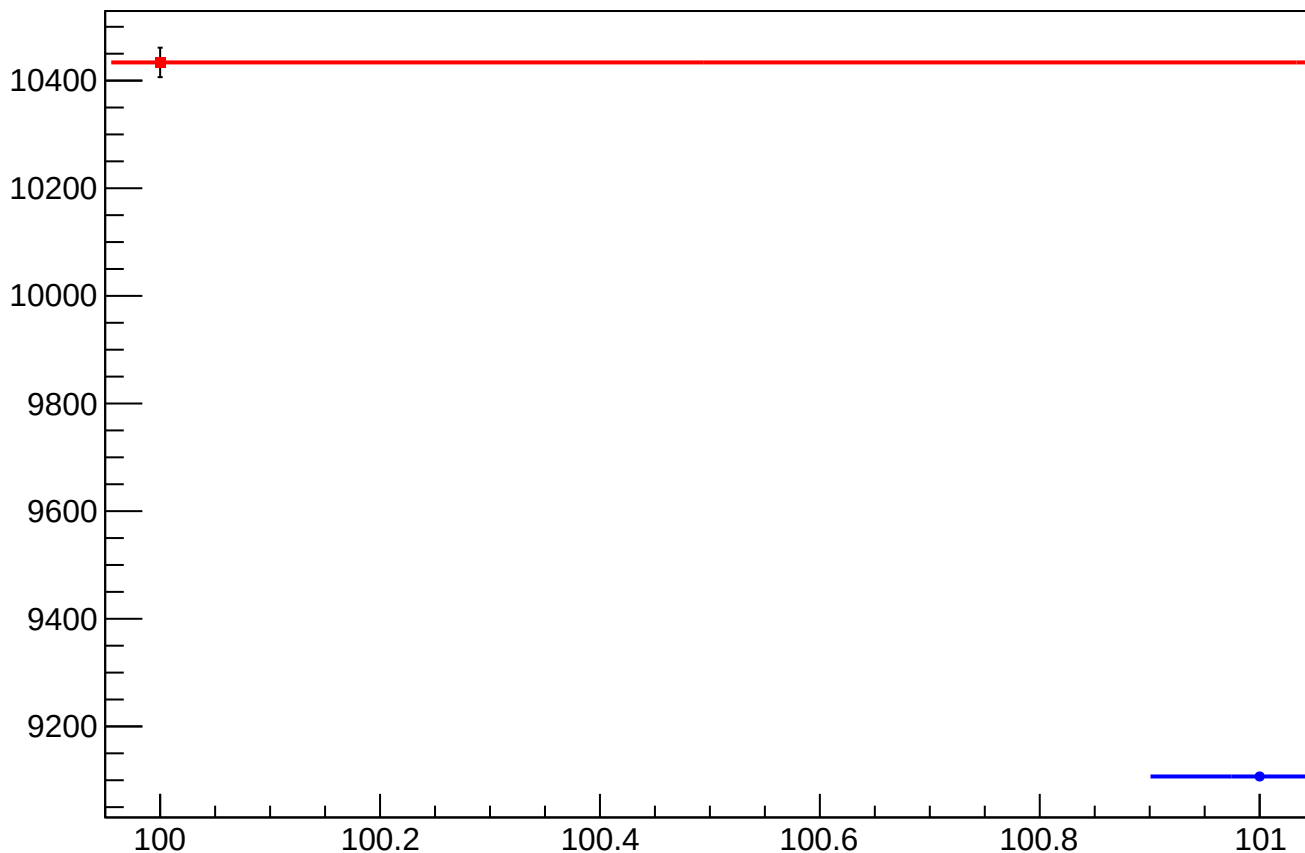
Right: 209.122 $\pm$ 10907.806  $\chi^2/\text{NDF}$ : 0.0/1

In: -126.410 $\pm$ 11367.081  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 209.122 $\pm$ 10907.806  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr2\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 9106.989 $\pm$ 8.038  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 10433.797 $\pm$ 27.411  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

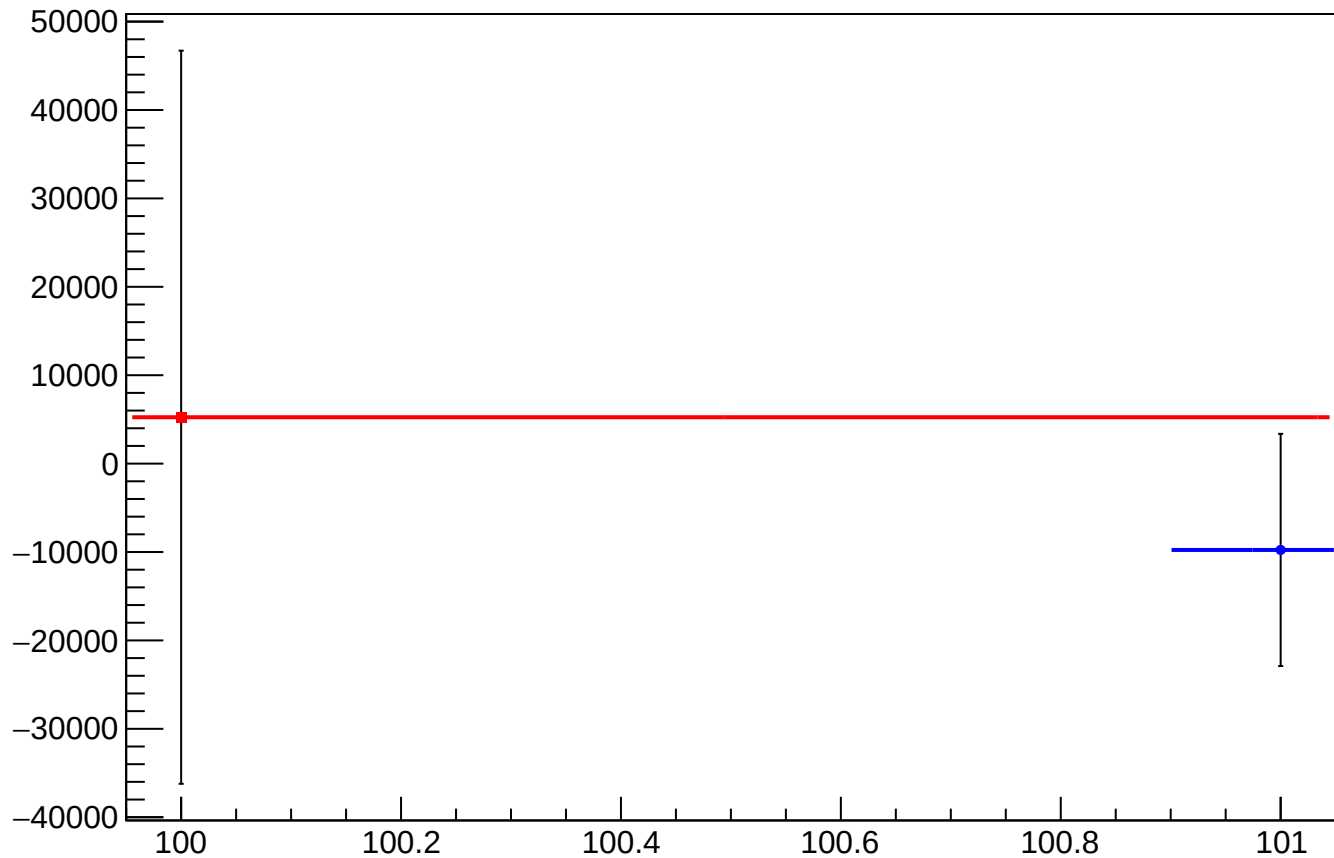
Right: 9212.040 $\pm$ 7.713  $\chi^2$ /NDF: 2157.4/1

In: 9106.989 $\pm$ 8.038  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 9212.040 $\pm$ 7.713  $\chi^2$ /NDF: 2157.4/1

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: -9765.752+/-13131.811  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5246.035+/-41465.532  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

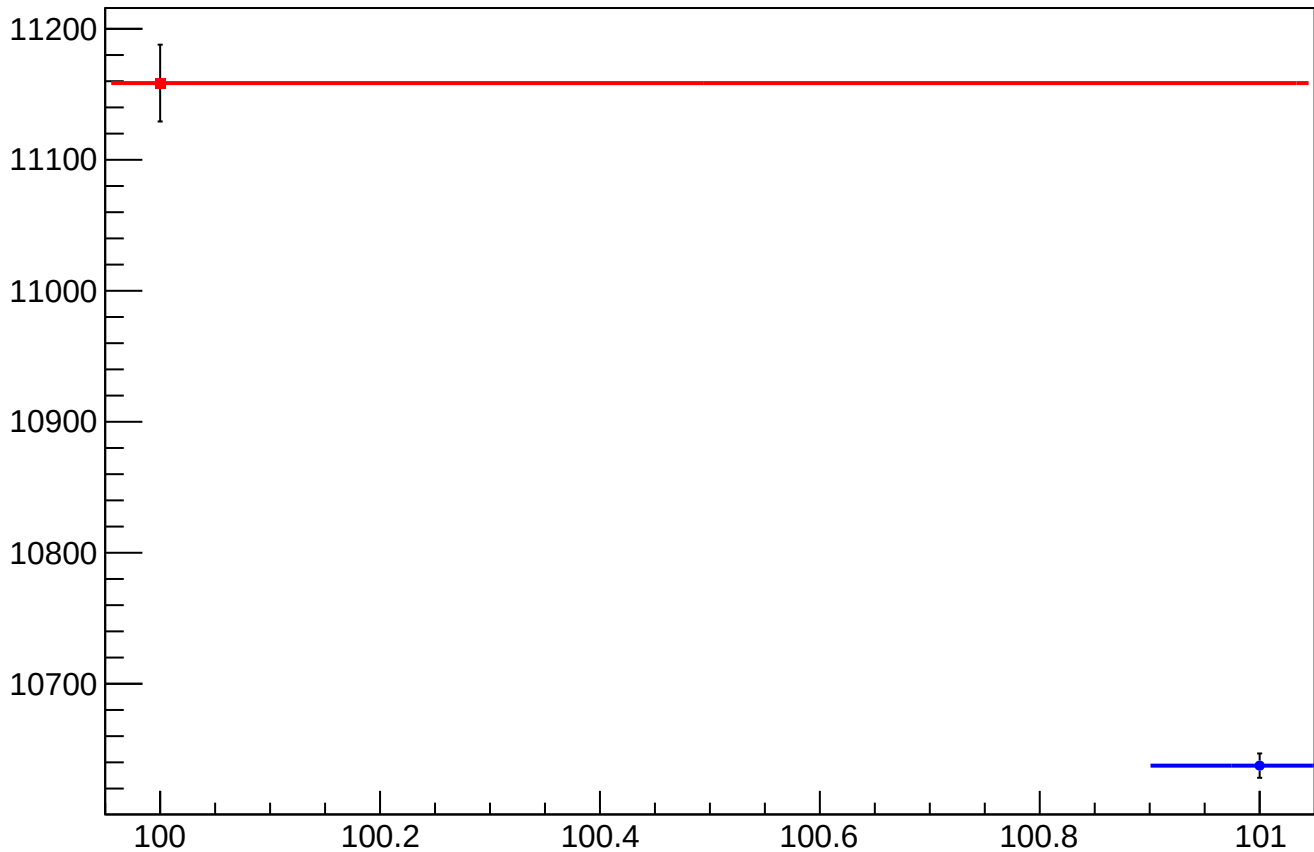
Right: -8397.398+/-12519.018  $\chi^2/\text{NDF}$ : 0.1/1

In: -9765.752+/-13131.811  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8397.398+/-12519.018  $\chi^2/\text{NDF}$ : 0.1/1

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 10637.493+/-9.286  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 11158.580+/-29.321  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

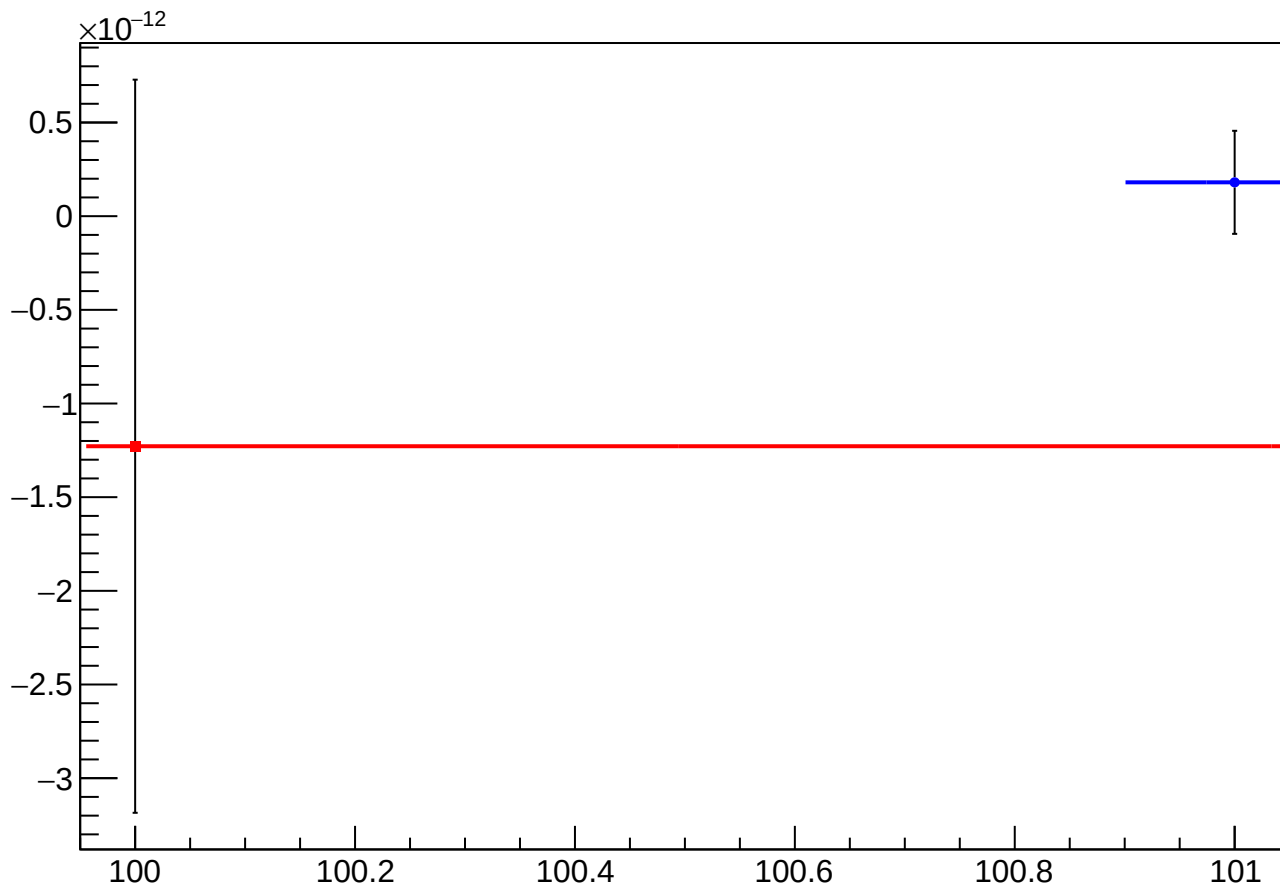
Right: 10684.992+/-8.852  $\chi^2$ /NDF: 287.1/1

In: 10637.493+/-9.286  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 10684.992+/-8.852  $\chi^2$ /NDF: 287.1/1

asym\_atr2\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

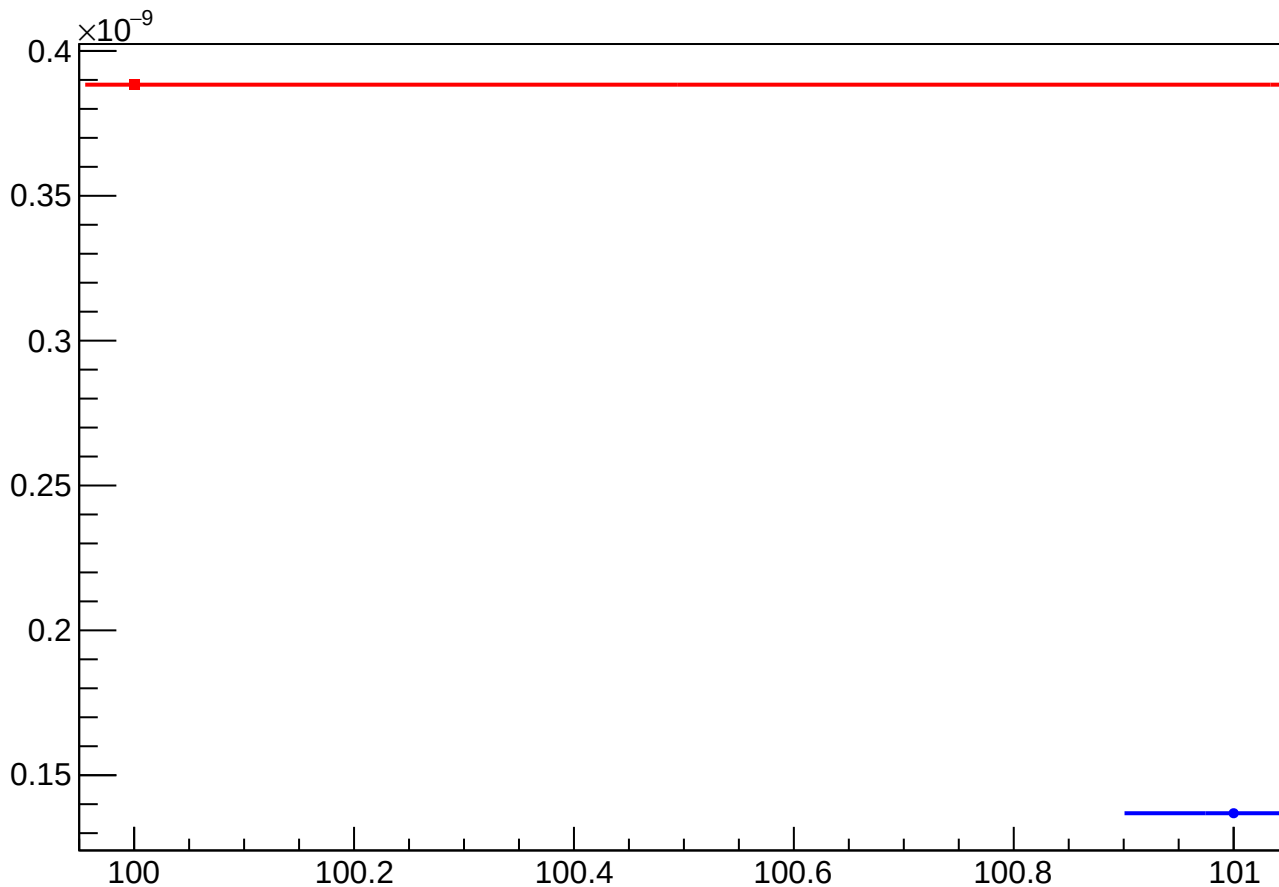
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atr2\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 32394.4/1

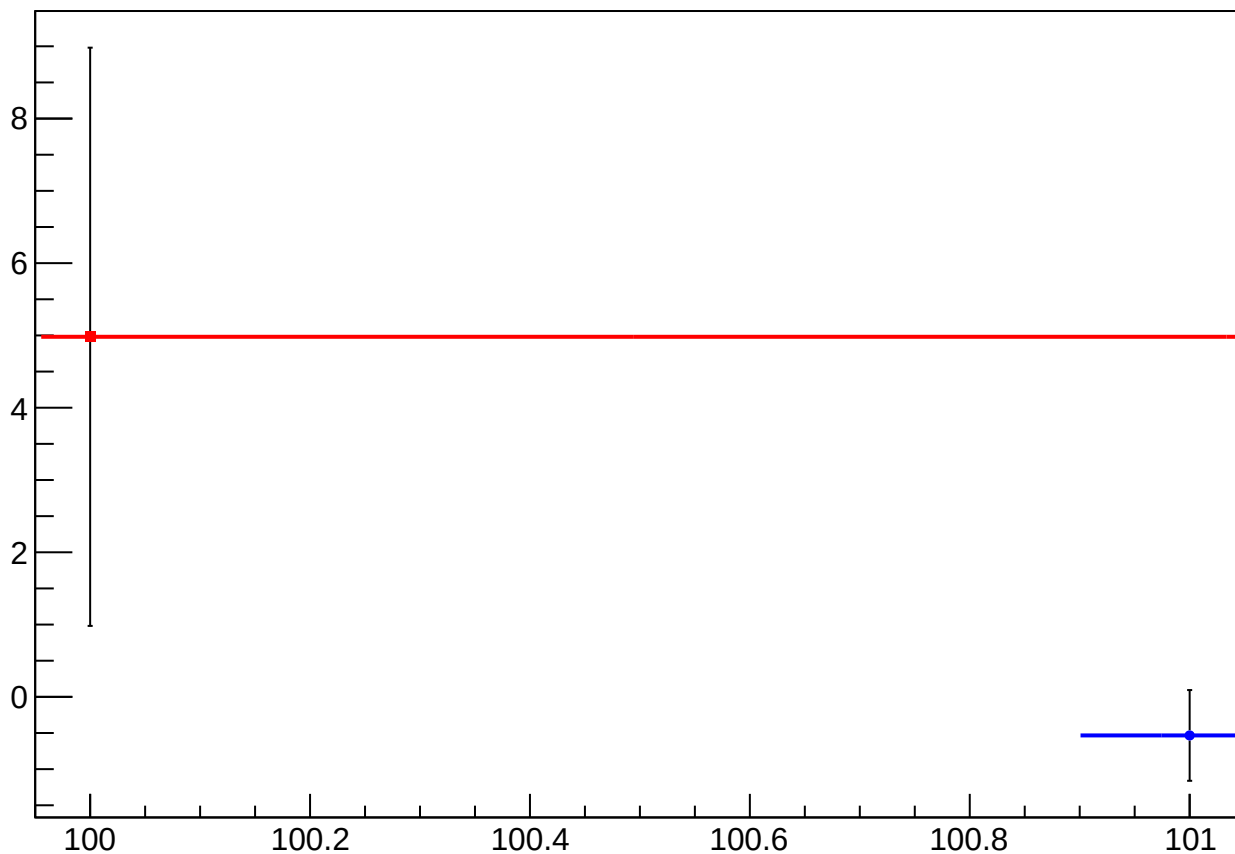
In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 32394.4/1



asym\_atr2\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.534+/-0.628  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.981+/-4.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

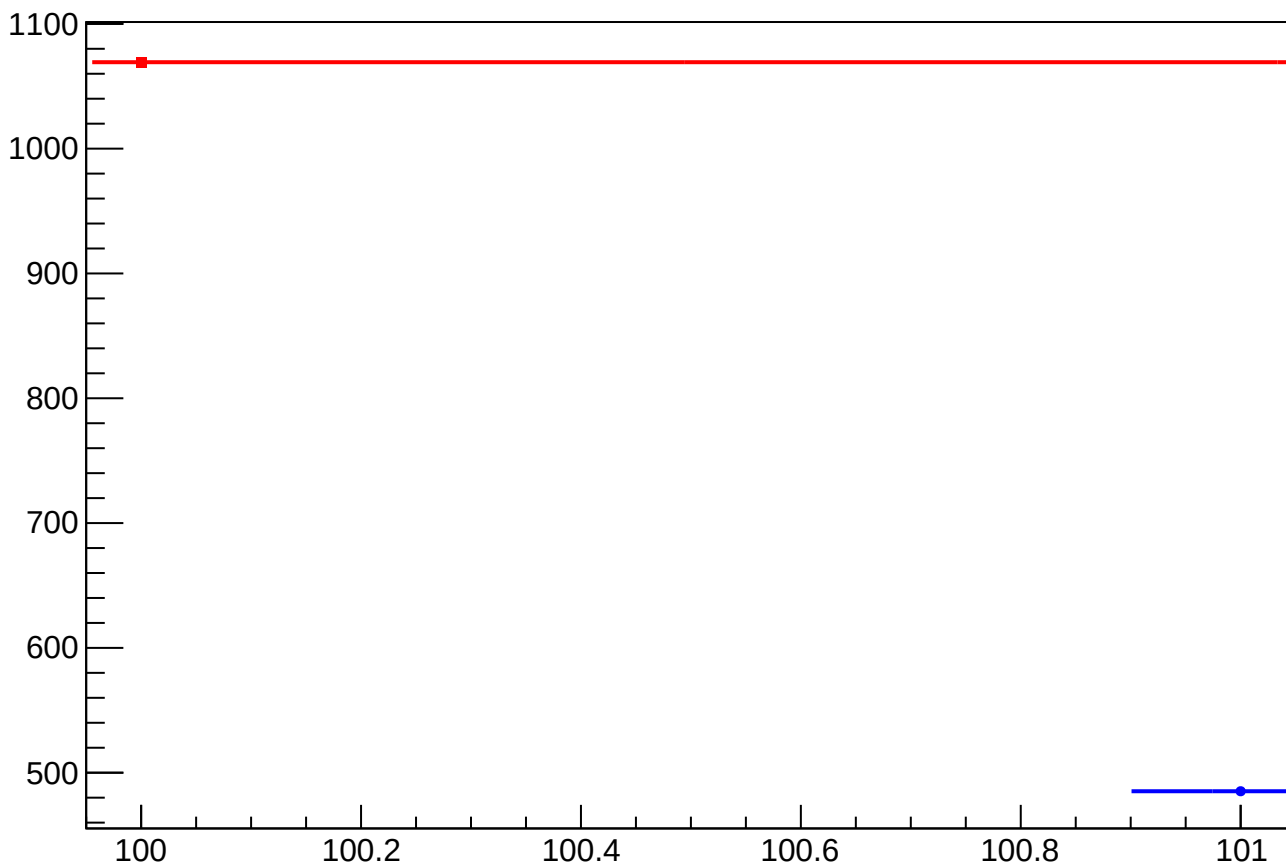
Right: -0.401+/-0.620  $\chi^2/\text{NDF}$ : 1.9/1

In: -0.534+/-0.628  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.401+/-0.620  $\chi^2/\text{NDF}$ : 1.9/1

asym\_atr2\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 485.146+/-0.444  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1069.254+/-2.828  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

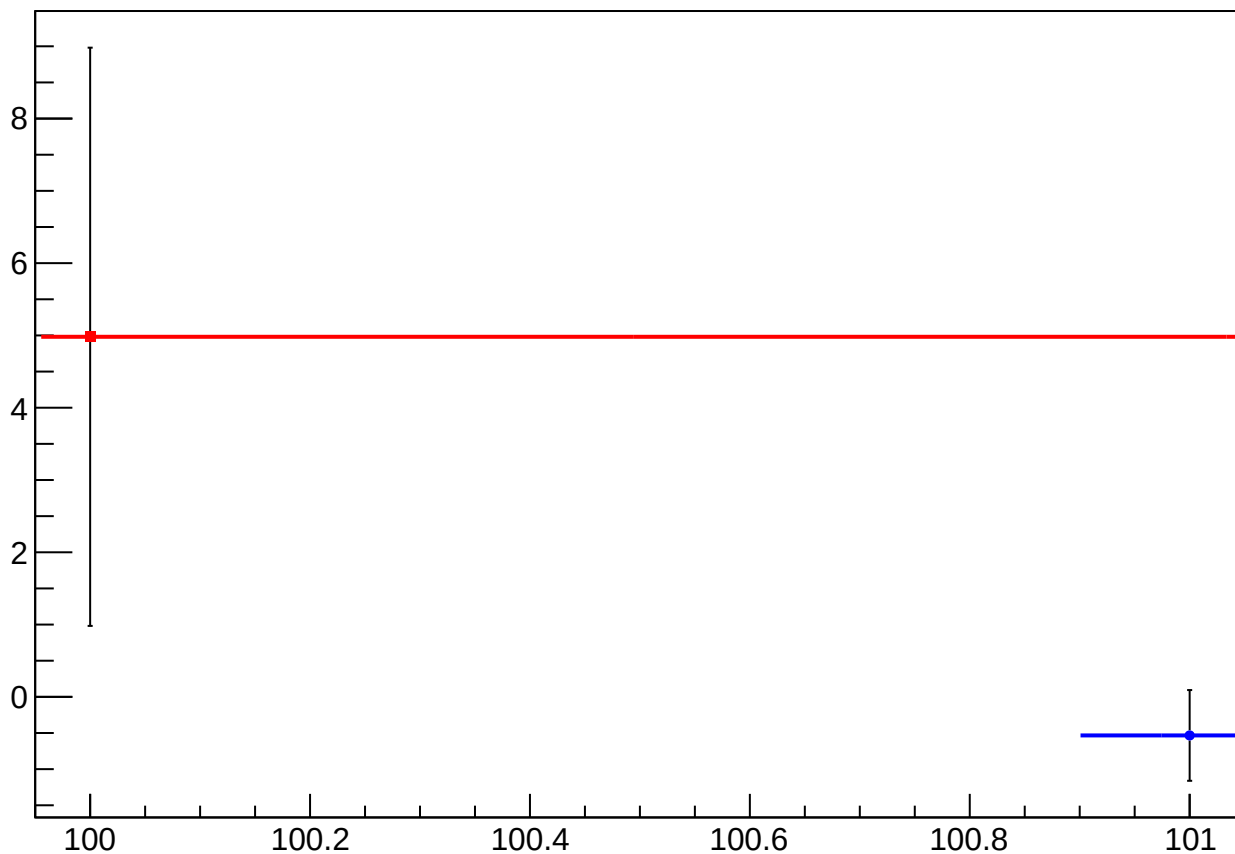
Right: 499.186+/-0.438  $\chi^2/\text{NDF}$ : 41628.4/1

In: 485.146+/-0.444  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 499.186+/-0.438  $\chi^2/\text{NDF}$ : 41628.4/1

asym\_atr2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.534+/-0.628  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.981+/-4.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

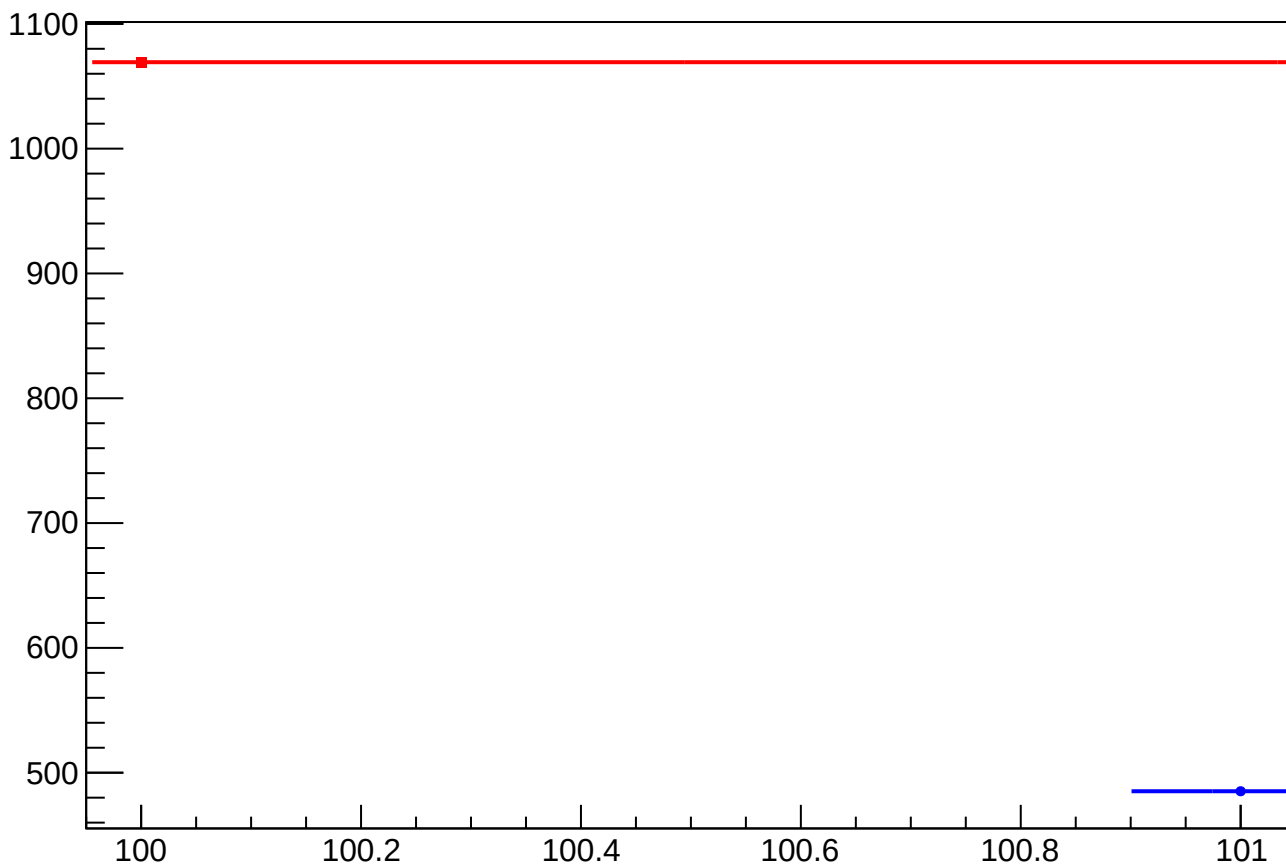
Right: -0.401+/-0.620  $\chi^2/\text{NDF}$ : 1.9/1

In: -0.534+/-0.628  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.401+/-0.620  $\chi^2/\text{NDF}$ : 1.9/1

asym\_atr2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 485.146 $\pm$ 0.444  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1069.254 $\pm$ 2.828  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

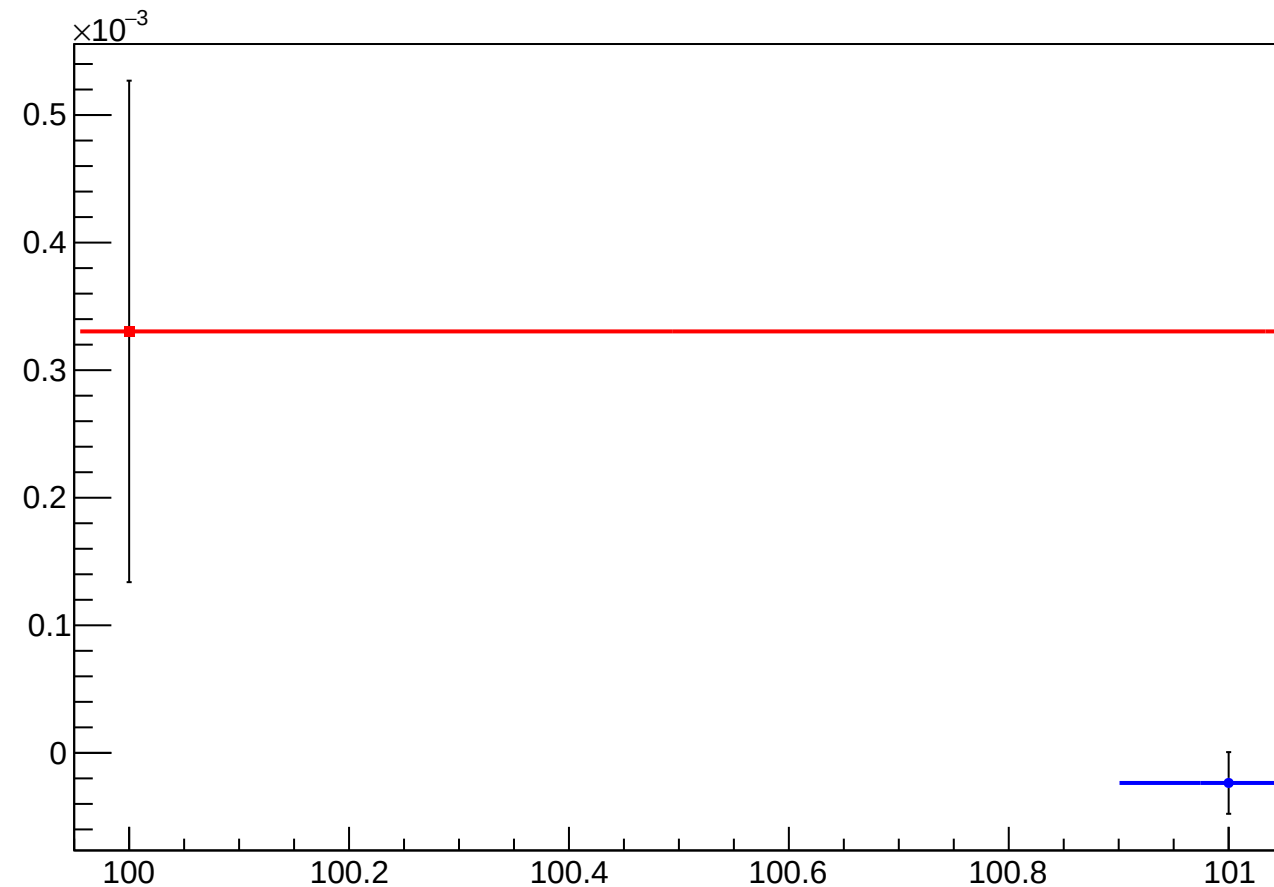
Right: 499.186 $\pm$ 0.438  $\chi^2$ /NDF: 41628.4/1

In: 485.146 $\pm$ 0.444  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 499.186 $\pm$ 0.438  $\chi^2$ /NDF: 41628.4/1

asym\_atr2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

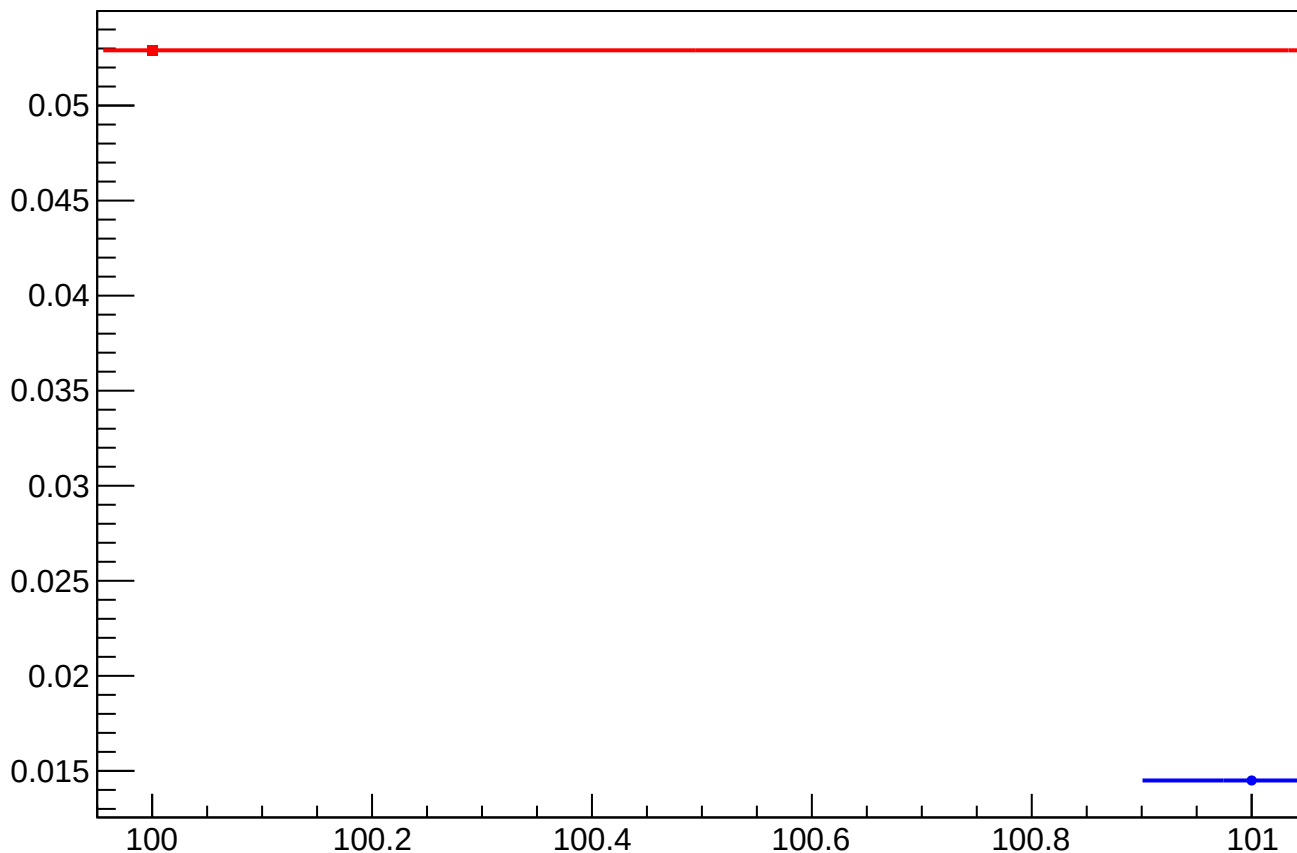
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.2/1

asym\_atr2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.053+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

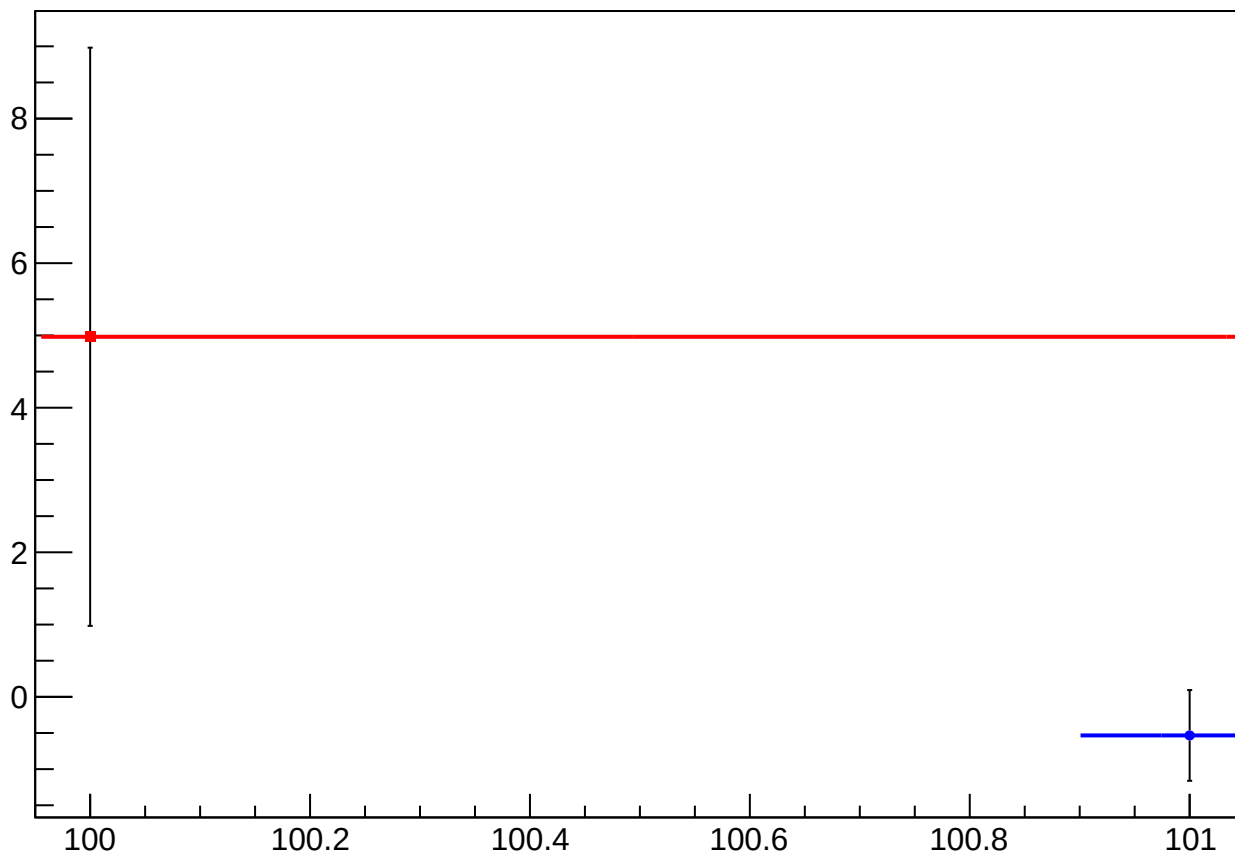
Right: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 75233.8/1

In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 75233.8/1

asym\_atr2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.534+/-0.628  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.982+/-4.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

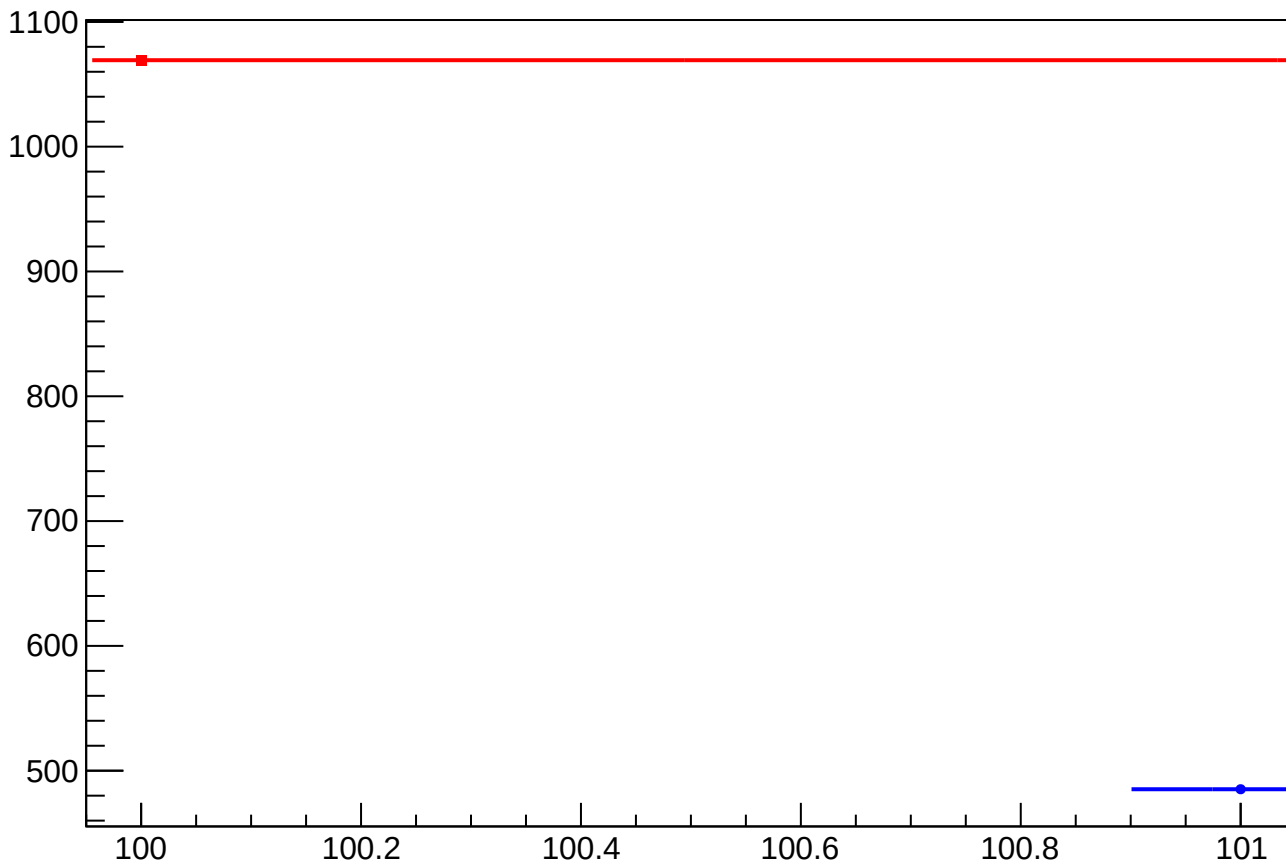
Right: -0.401+/-0.620  $\chi^2/\text{NDF}$ : 1.9/1

In: -0.534+/-0.628  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.401+/-0.620  $\chi^2/\text{NDF}$ : 1.9/1

asym\_atr2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 485.144+/-0.444  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1069.265+/-2.828  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 499.184+/-0.438  $\chi^2/\text{NDF}$ : 41629.4/1

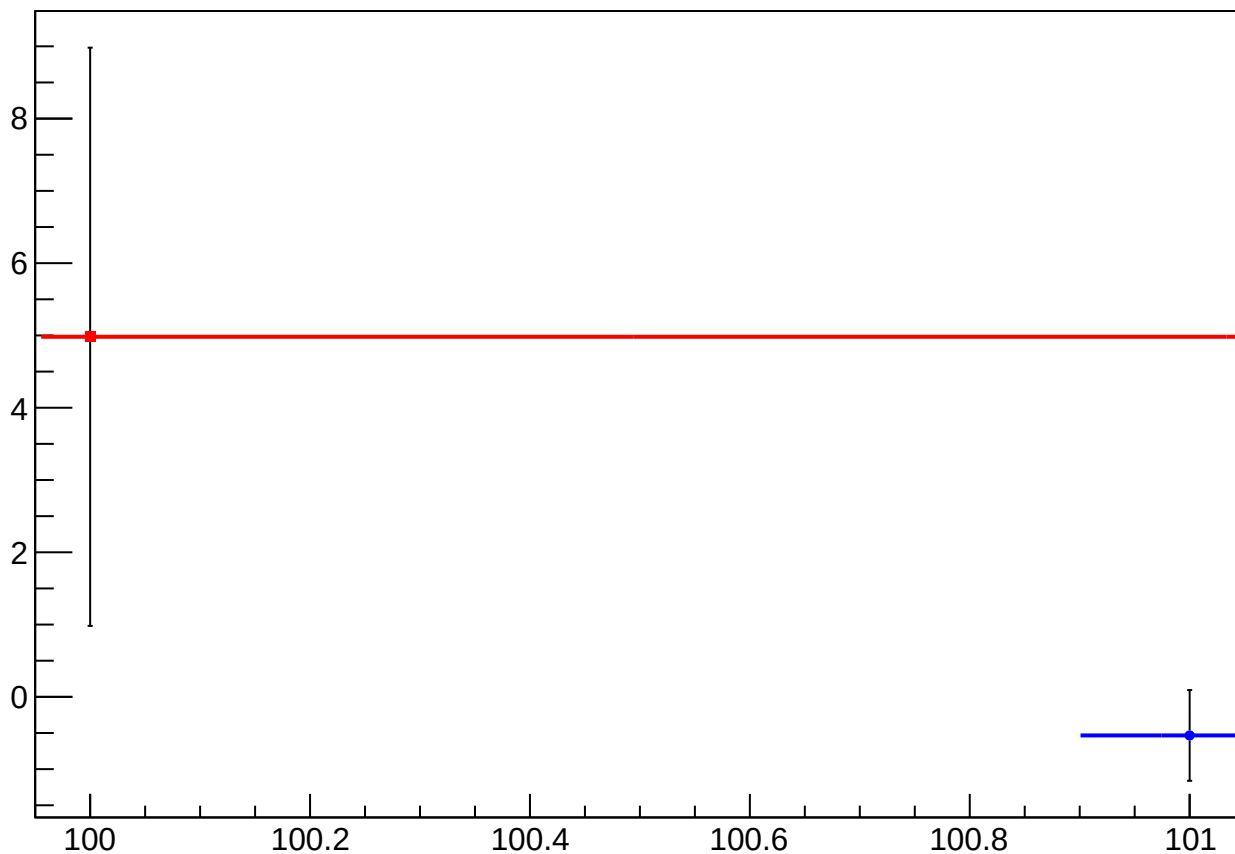
In: 485.144+/-0.444  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 499.184+/-0.438  $\chi^2/\text{NDF}$ : 41629.4/1



asym\_atr2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.534+/-0.628  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.982+/-4.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

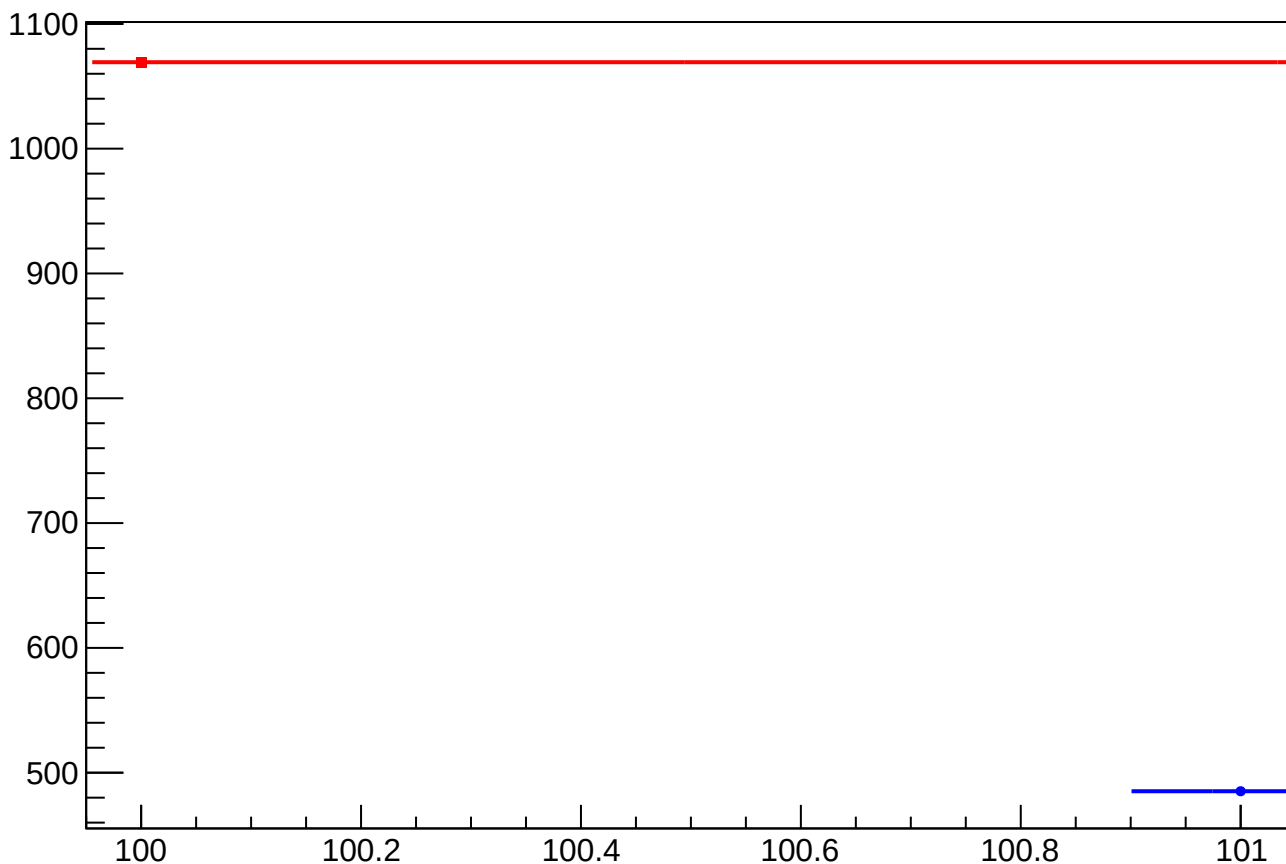
Right: -0.401+/-0.620  $\chi^2/\text{NDF}$ : 1.9/1

In: -0.534+/-0.628  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.401+/-0.620  $\chi^2/\text{NDF}$ : 1.9/1

asym\_atr2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 485.144 $\pm$ 0.444  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1069.265 $\pm$ 2.828  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

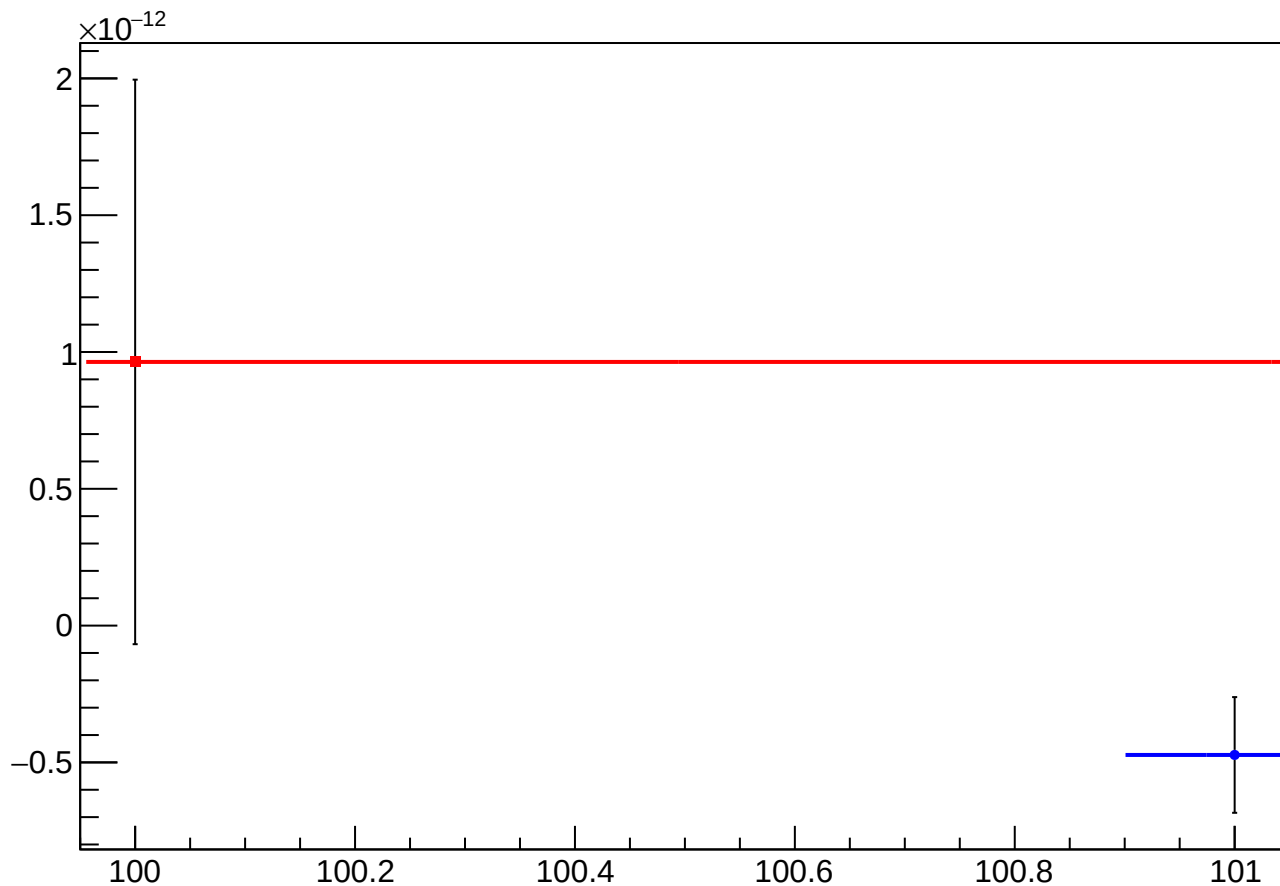
Right: 499.184 $\pm$ 0.438  $\chi^2$ /NDF: 41629.4/1

In: 485.144 $\pm$ 0.444  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 499.184 $\pm$ 0.438  $\chi^2$ /NDF: 41629.4/1

asym\_atr2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

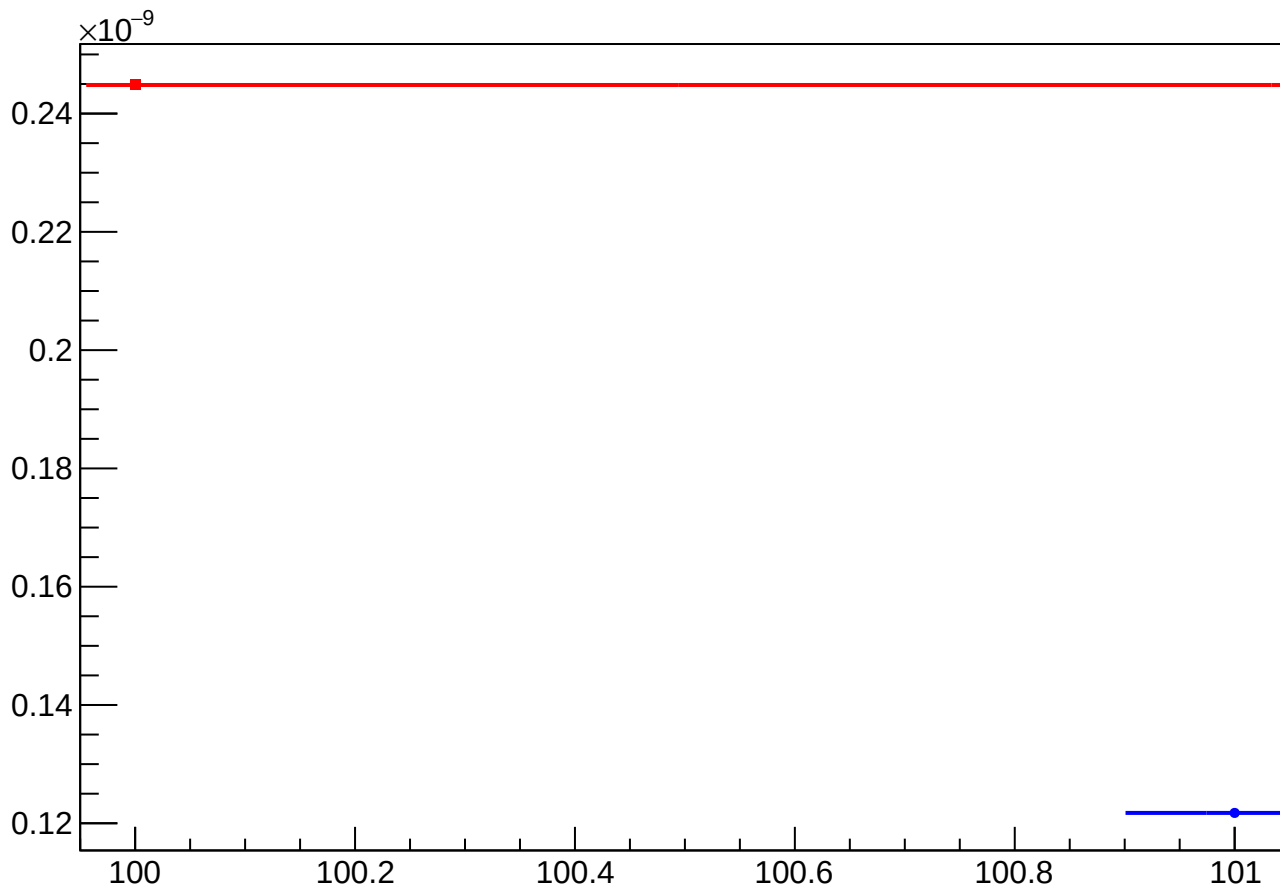
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/1

asym\_atr2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

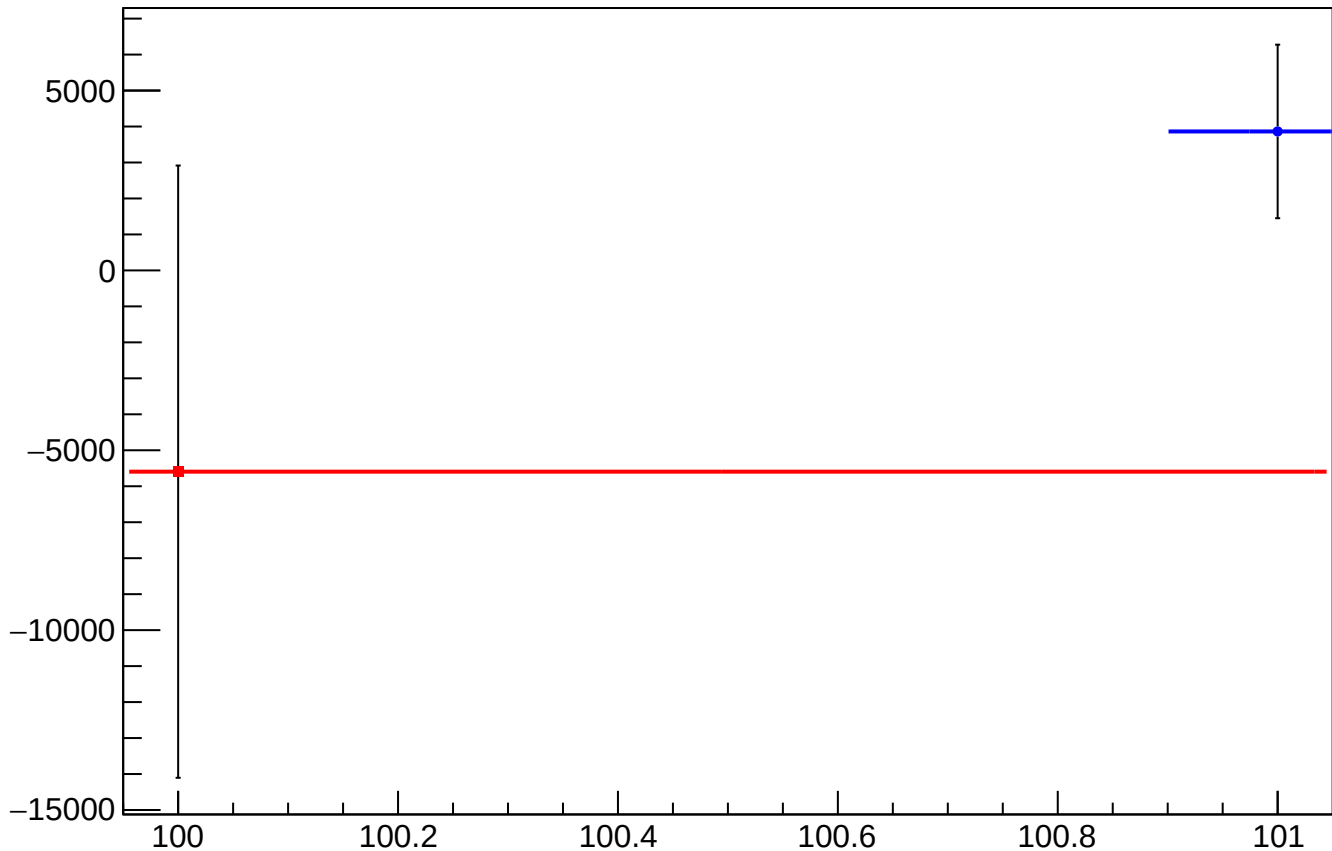
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27321.4/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27321.4/1

reg\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 3863.105+/-2412.284  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5594.637+/-8510.277  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

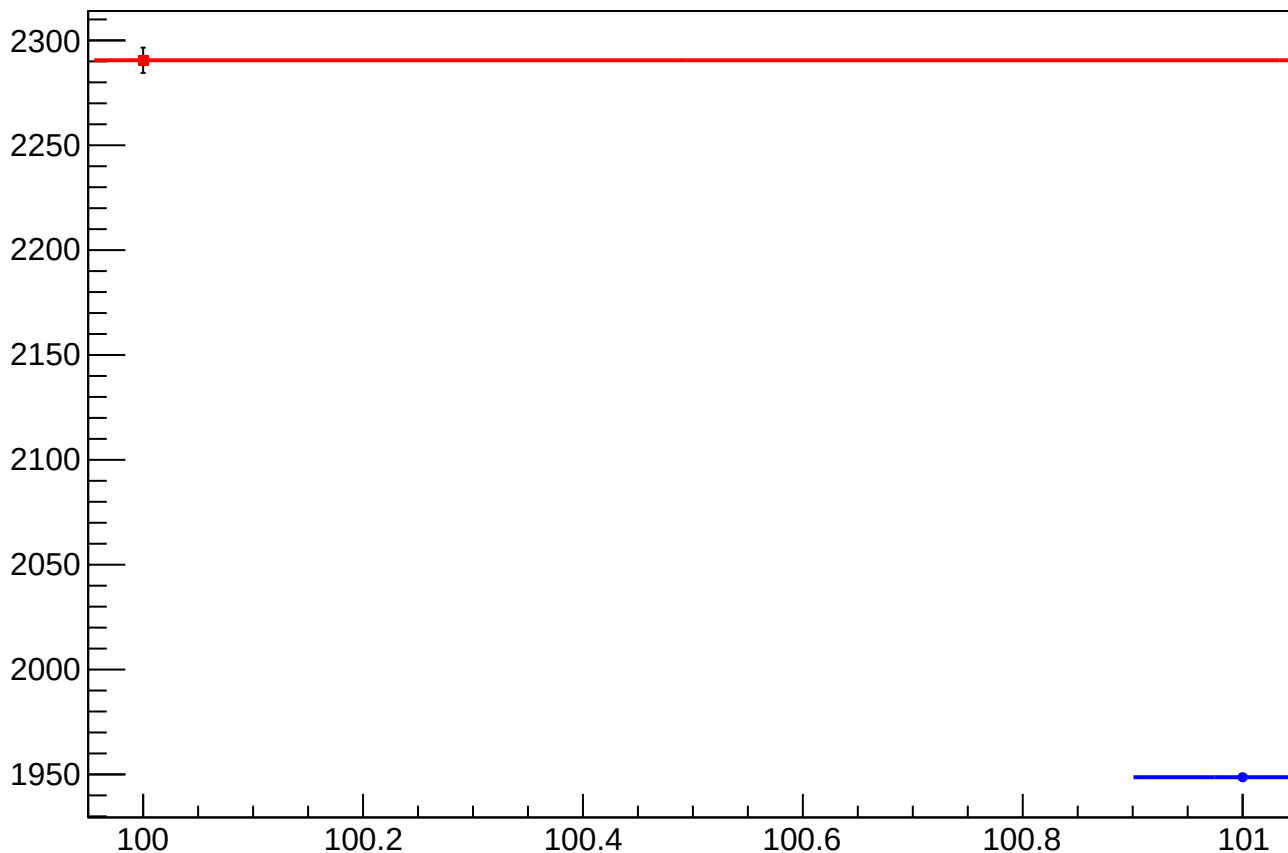
Right: 3159.719+/-2320.849  $\chi^2/\text{NDF}$ : 1.1/1

In: 3863.105+/-2412.284  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3159.719+/-2320.849  $\chi^2/\text{NDF}$ : 1.1/1

# reg\_asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 1948.664 $\pm$ 1.706  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2290.520 $\pm$ 6.018  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

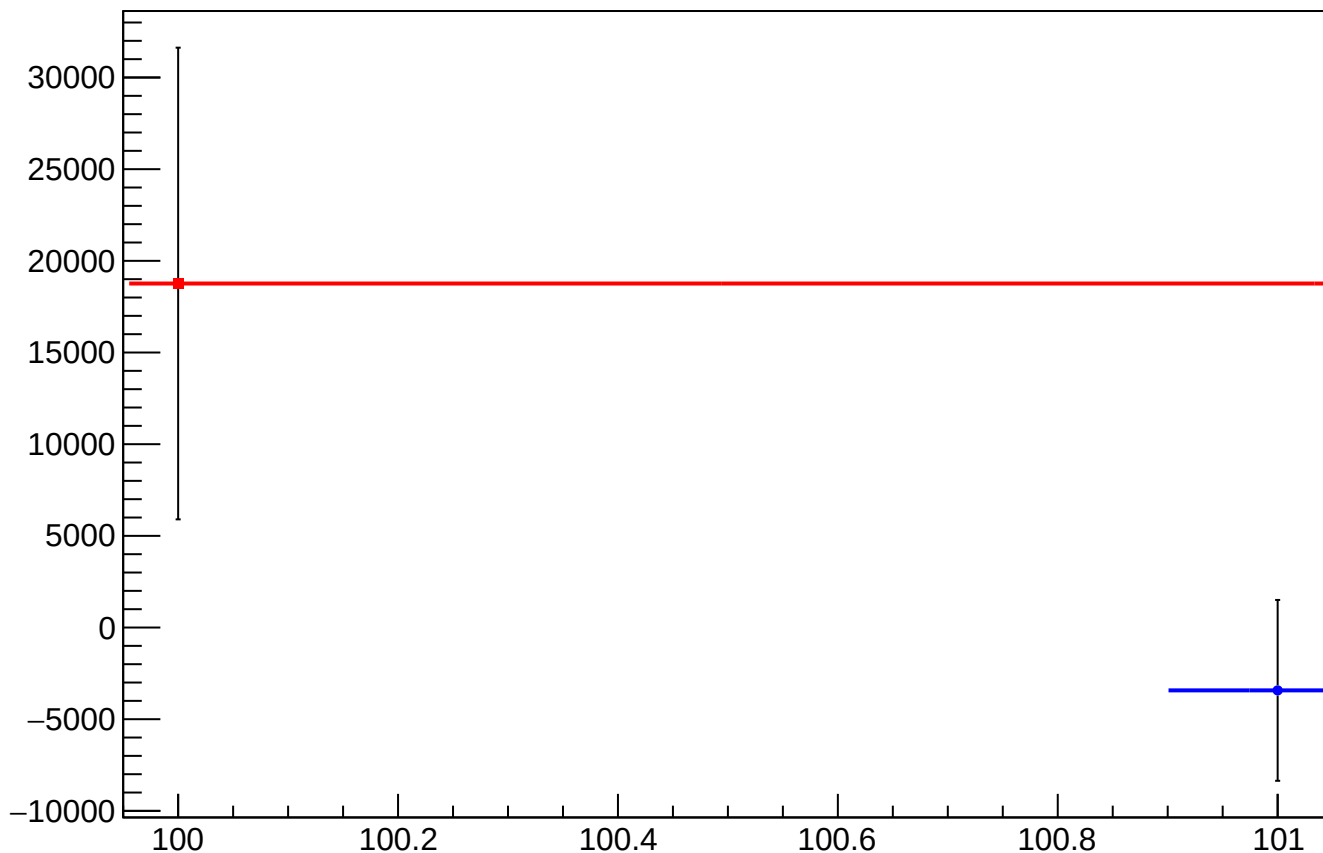
Right: 1974.088 $\pm$ 1.641  $\chi^2/\text{NDF}$ : 2987.2/1

In: 1948.664 $\pm$ 1.706  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1974.088 $\pm$ 1.641  $\chi^2/\text{NDF}$ : 2987.2/1

asym\_atl\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -3427.772 $\pm$ 4931.883  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18763.438 $\pm$ 12863.727  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

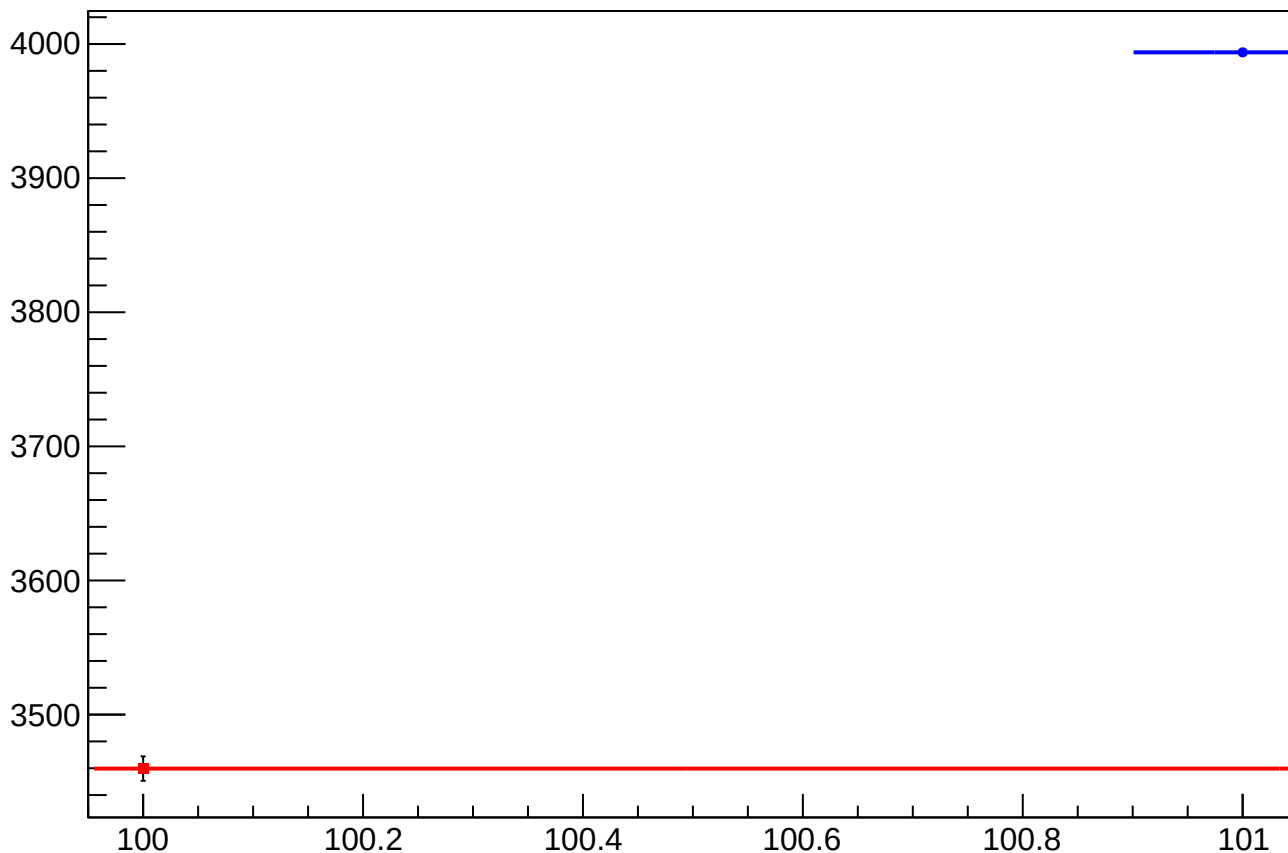
Right: -583.882 $\pm$ 4605.033  $\chi^2$ /NDF: 2.6/1

In: -3427.772 $\pm$ 4931.883  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -583.882 $\pm$ 4605.033  $\chi^2$ /NDF: 2.6/1

asym\_atl\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 3993.801 $\pm$ 3.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3459.731 $\pm$ 9.096  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 3925.358 $\pm$ 3.256  $\chi^2$ /NDF: 3005.6/1

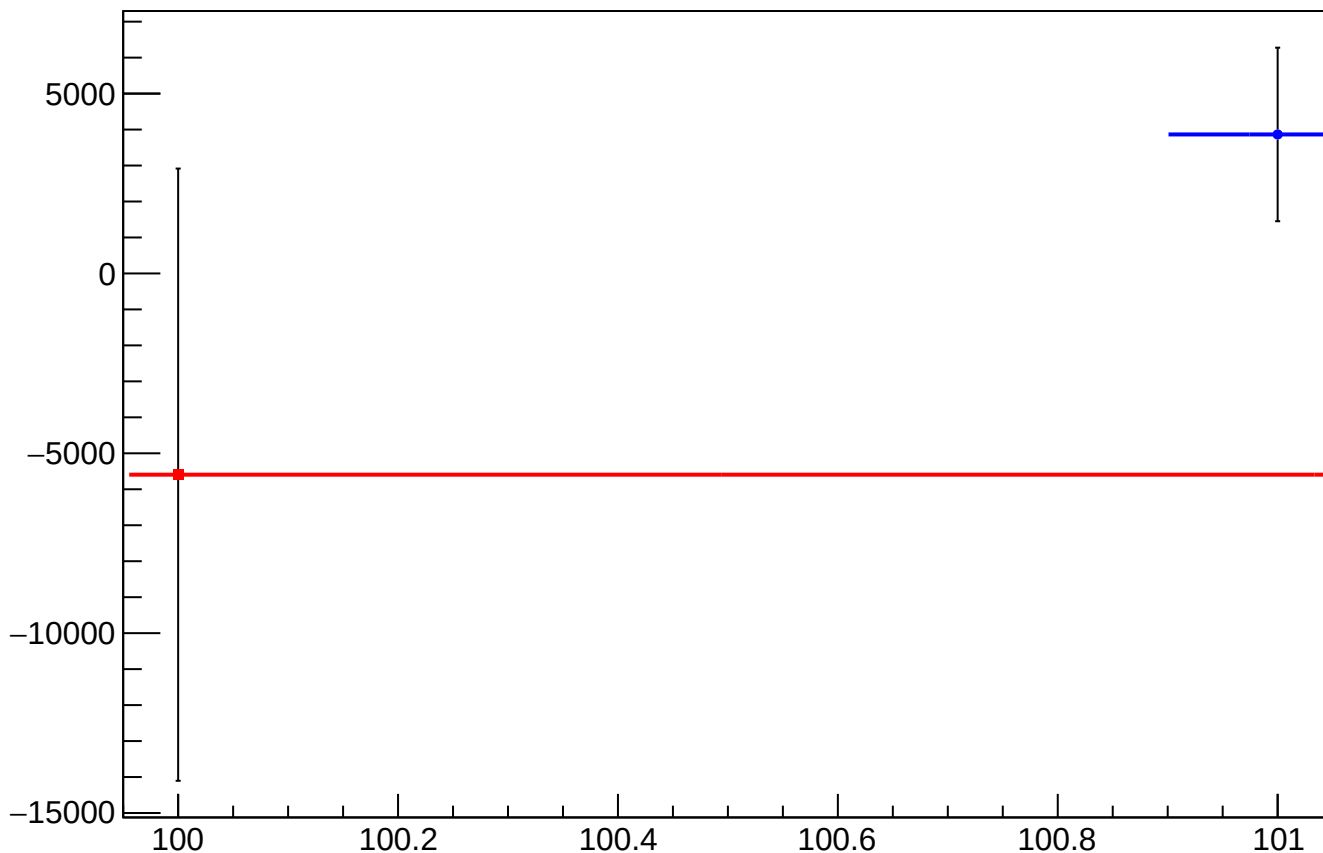
In: 3993.801 $\pm$ 3.487  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3925.358 $\pm$ 3.256  $\chi^2$ /NDF: 3005.6/1



cor\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 3864.348+/-2412.286  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5594.328+/-8510.277  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

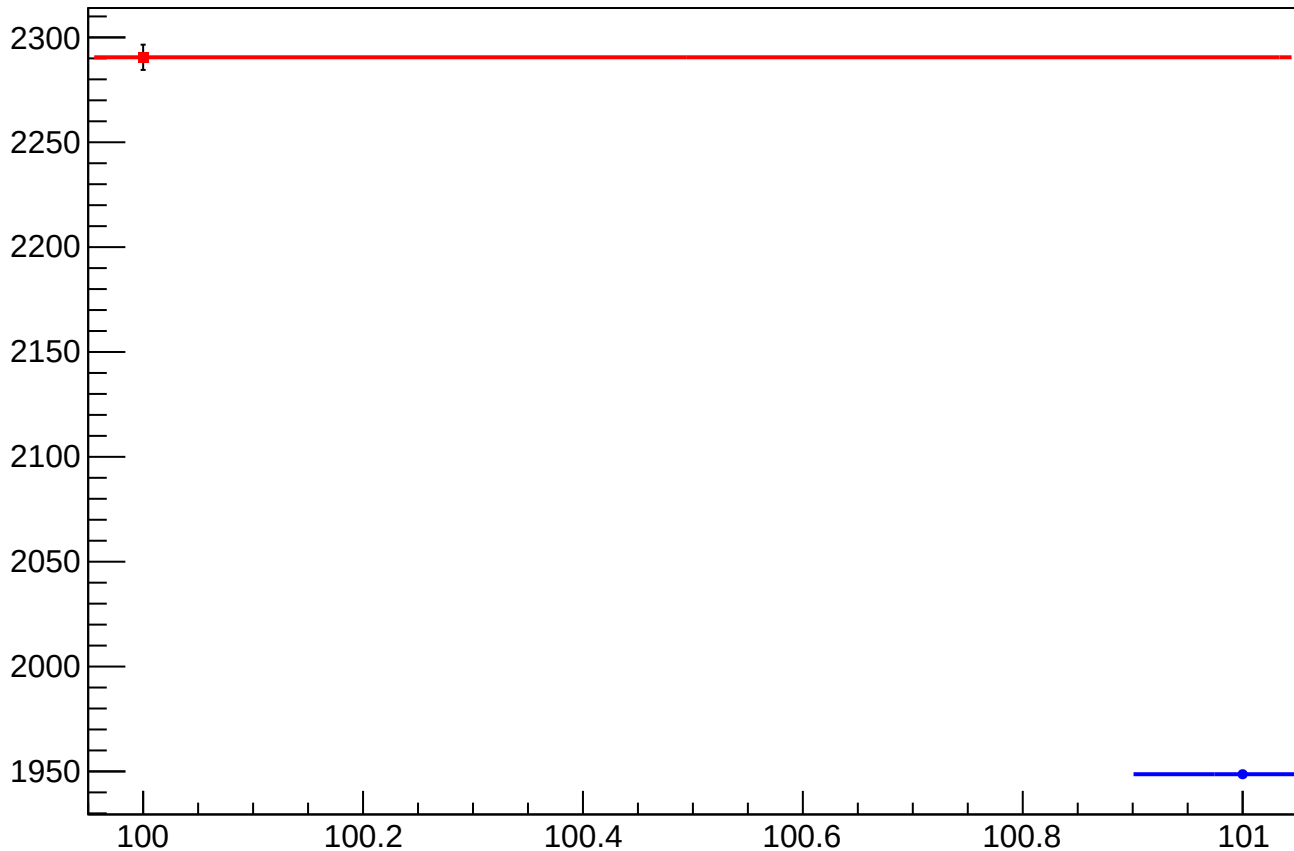
Right: 3160.891+/-2320.850  $\chi^2/\text{NDF}$ : 1.1/1

In: 3864.348+/-2412.286  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3160.891+/-2320.850  $\chi^2/\text{NDF}$ : 1.1/1

# cor\_asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 1948.664 $\pm$ 1.706  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2290.520 $\pm$ 6.018  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

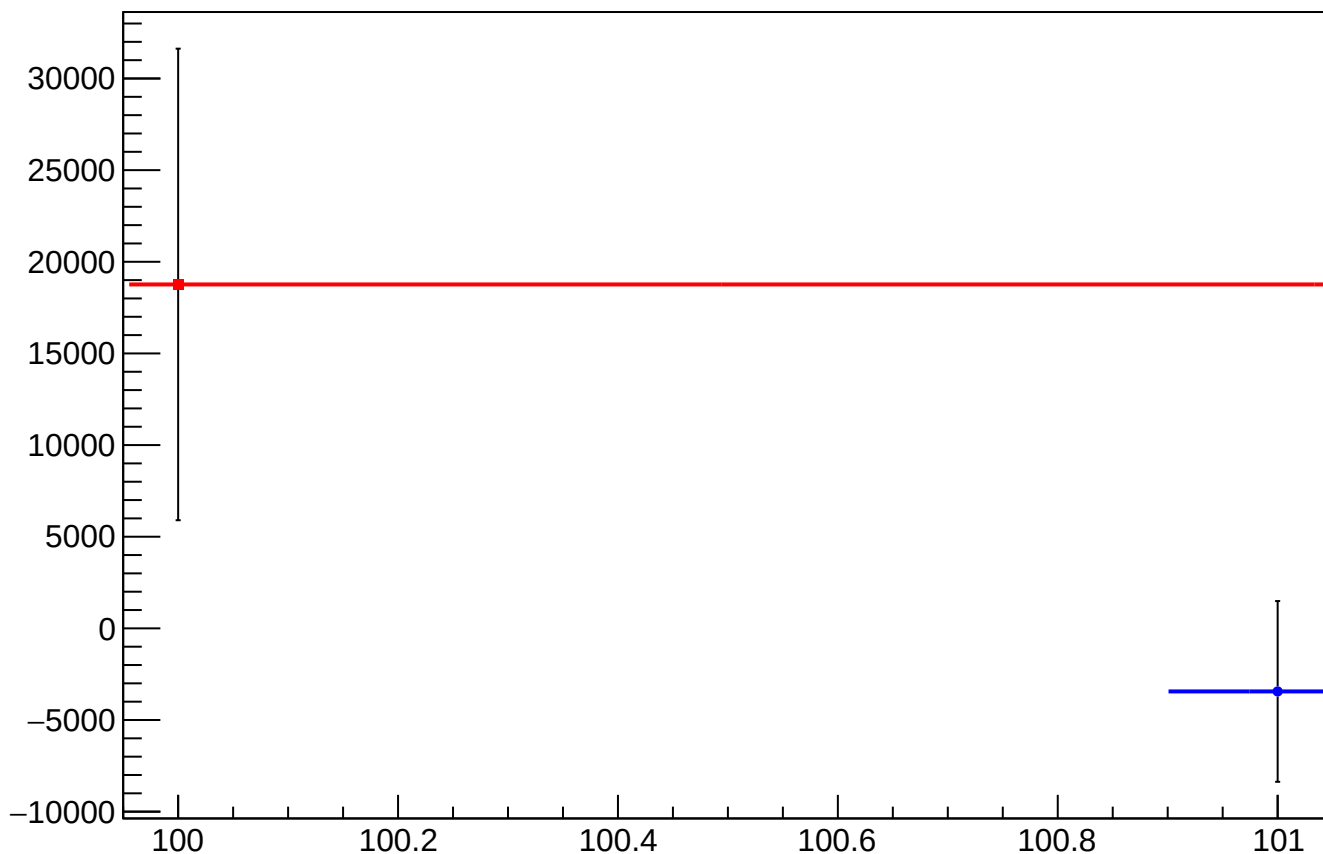
Right: 1974.088 $\pm$ 1.641  $\chi^2$ /NDF: 2987.2/1

In: 1948.664 $\pm$ 1.706  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1974.088 $\pm$ 1.641  $\chi^2$ /NDF: 2987.2/1

asym\_atl\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3440.746+/-4930.609  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18763.671+/-12863.756  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

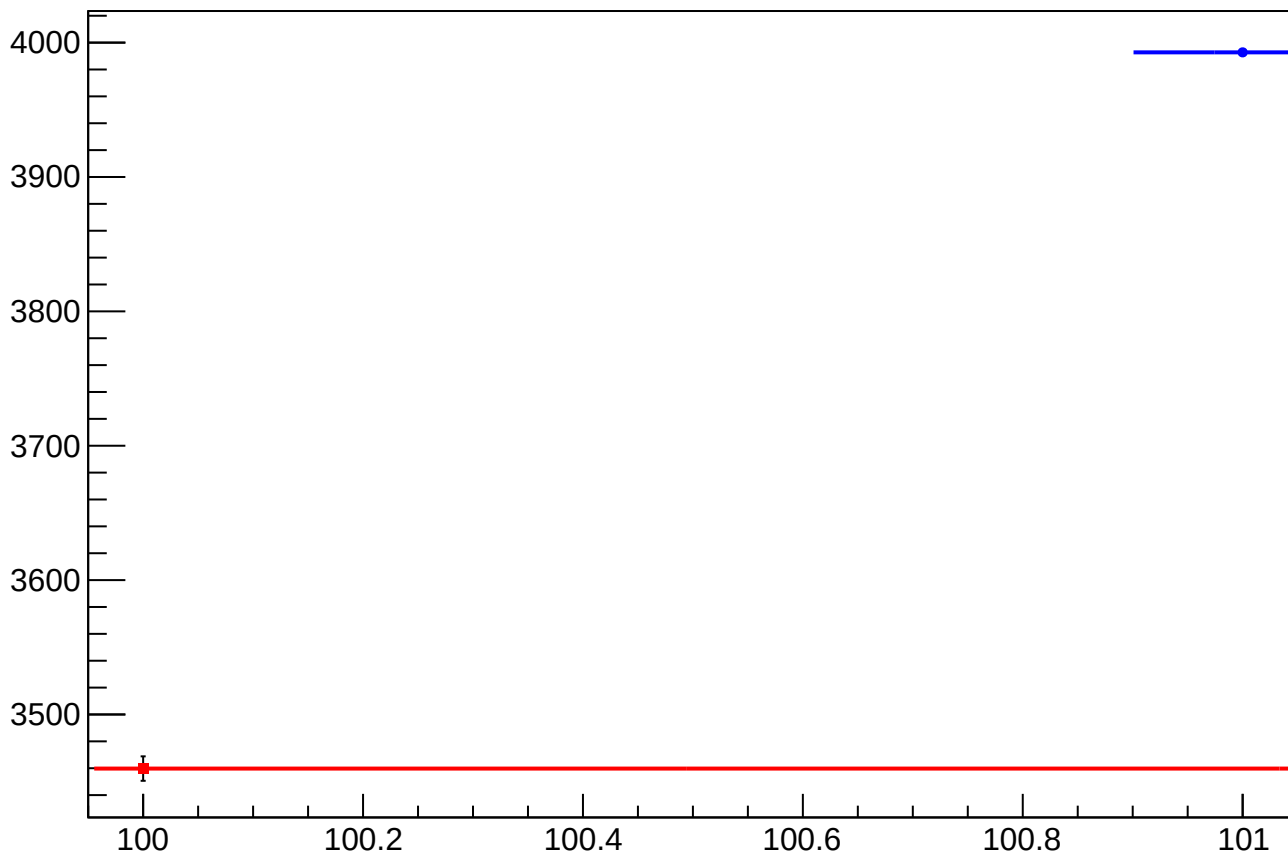
Right: -596.457+/-4603.997  $\chi^2/\text{NDF}$ : 2.6/1

In: -3440.746+/-4930.609  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -596.457+/-4603.997  $\chi^2/\text{NDF}$ : 2.6/1

asym\_atl\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 3992.754+/-3.486  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3459.740+/-9.096  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

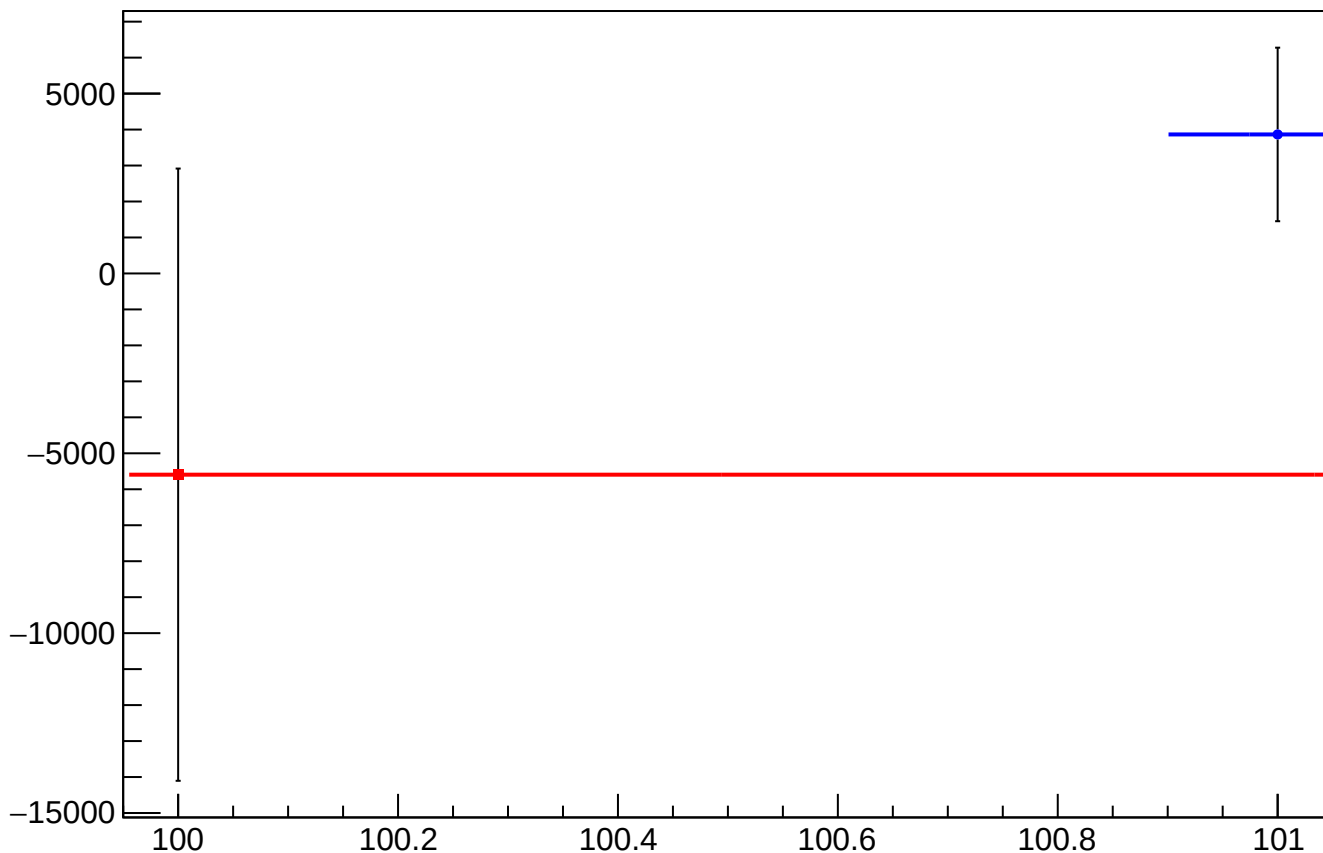
Right: 3924.478+/-3.256  $\chi^2/\text{NDF}$ : 2993.9/1

In: 3992.754+/-3.486  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3924.478+/-3.256  $\chi^2/\text{NDF}$ : 2993.9/1

eigen\_cor\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 3864.348+/-2412.286  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5594.328+/-8510.277  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

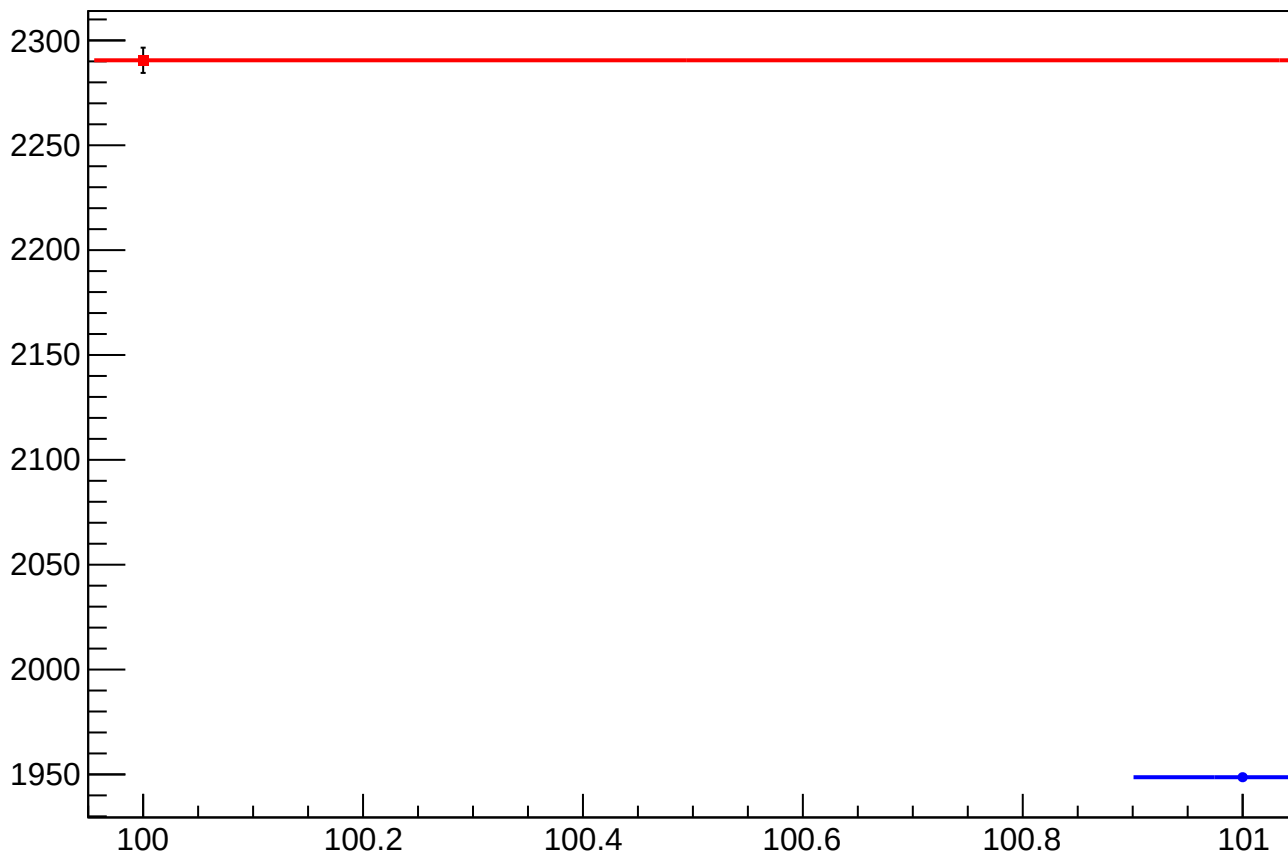
Right: 3160.891+/-2320.850  $\chi^2/\text{NDF}$ : 1.1/1

In: 3864.348+/-2412.286  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3160.891+/-2320.850  $\chi^2/\text{NDF}$ : 1.1/1

eigen\_cor\_asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 1948.664 $\pm$ 1.706  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2290.520 $\pm$ 6.018  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

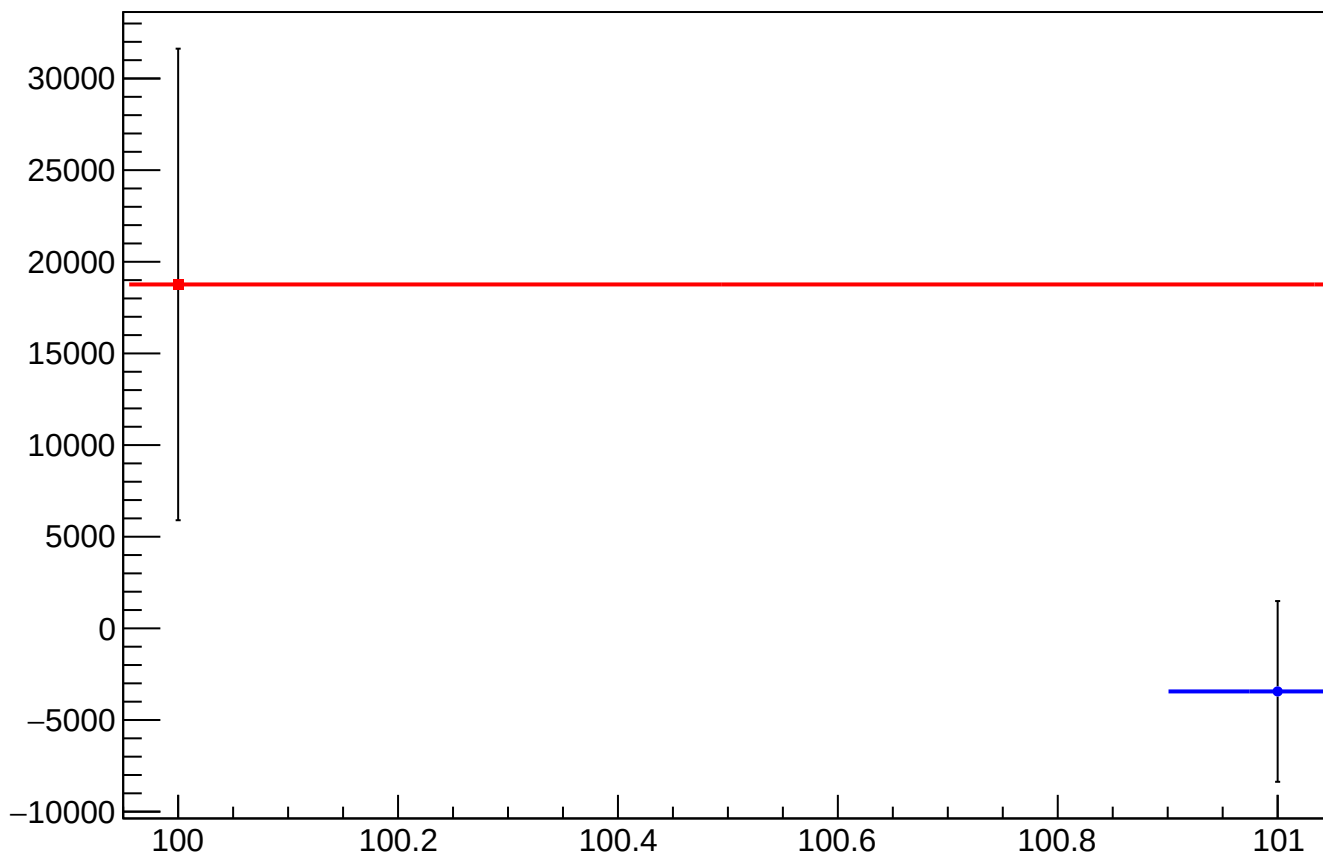
Right: 1974.088 $\pm$ 1.641  $\chi^2$ /NDF: 2987.2/1

In: 1948.664 $\pm$ 1.706  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1974.088 $\pm$ 1.641  $\chi^2$ /NDF: 2987.2/1

asym\_atl\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3440.746+/-4930.609  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18763.671+/-12863.756  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

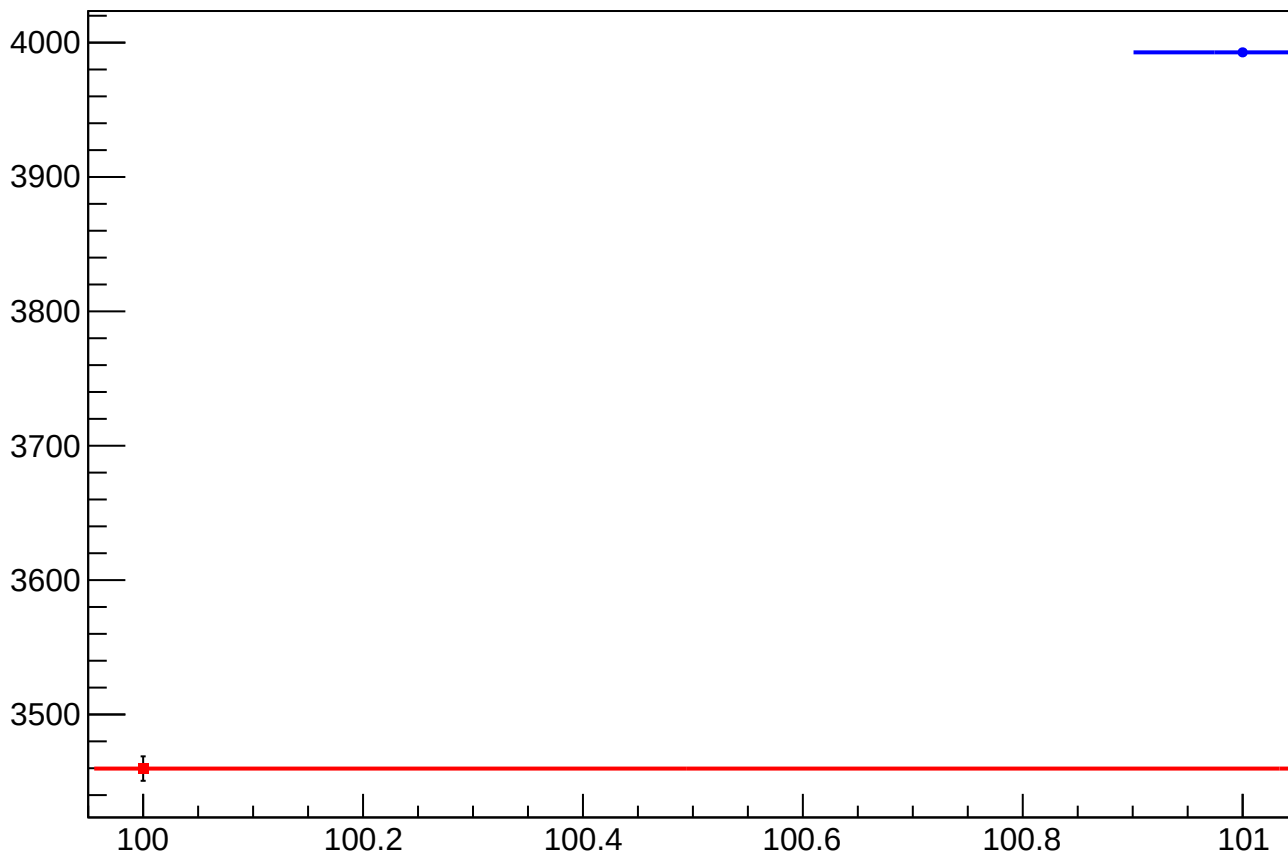
Right: -596.457+/-4603.997  $\chi^2/\text{NDF}$ : 2.6/1

In: -3440.746+/-4930.609  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -596.457+/-4603.997  $\chi^2/\text{NDF}$ : 2.6/1

asym\_atl\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 3992.754+/-3.486  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3459.740+/-9.096  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 3924.478+/-3.256  $\chi^2/\text{NDF}$ : 2993.9/1

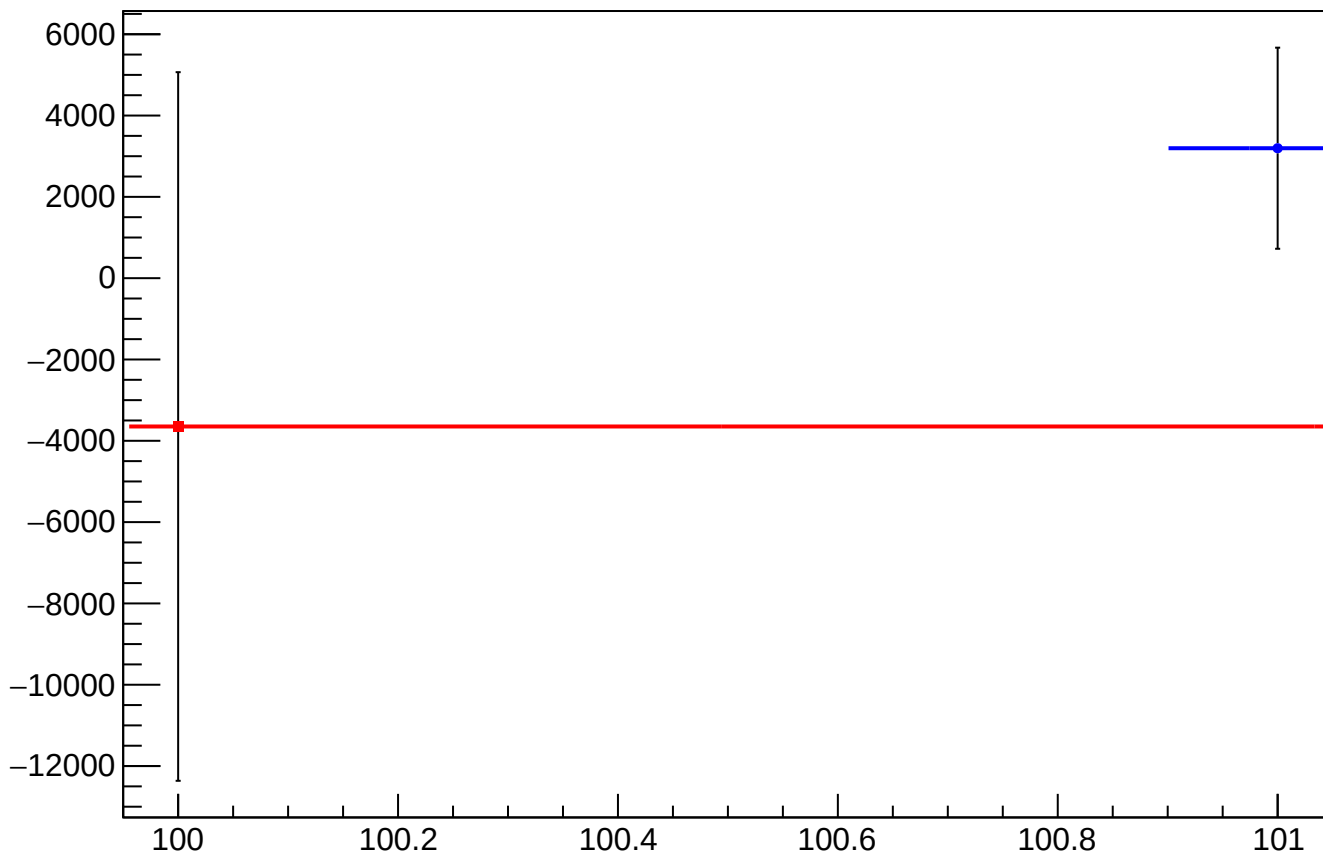
In: 3992.754+/-3.486  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3924.478+/-3.256  $\chi^2/\text{NDF}$ : 2993.9/1



# dit\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 3196.312+/-2473.247  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3647.935+/-8714.841  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

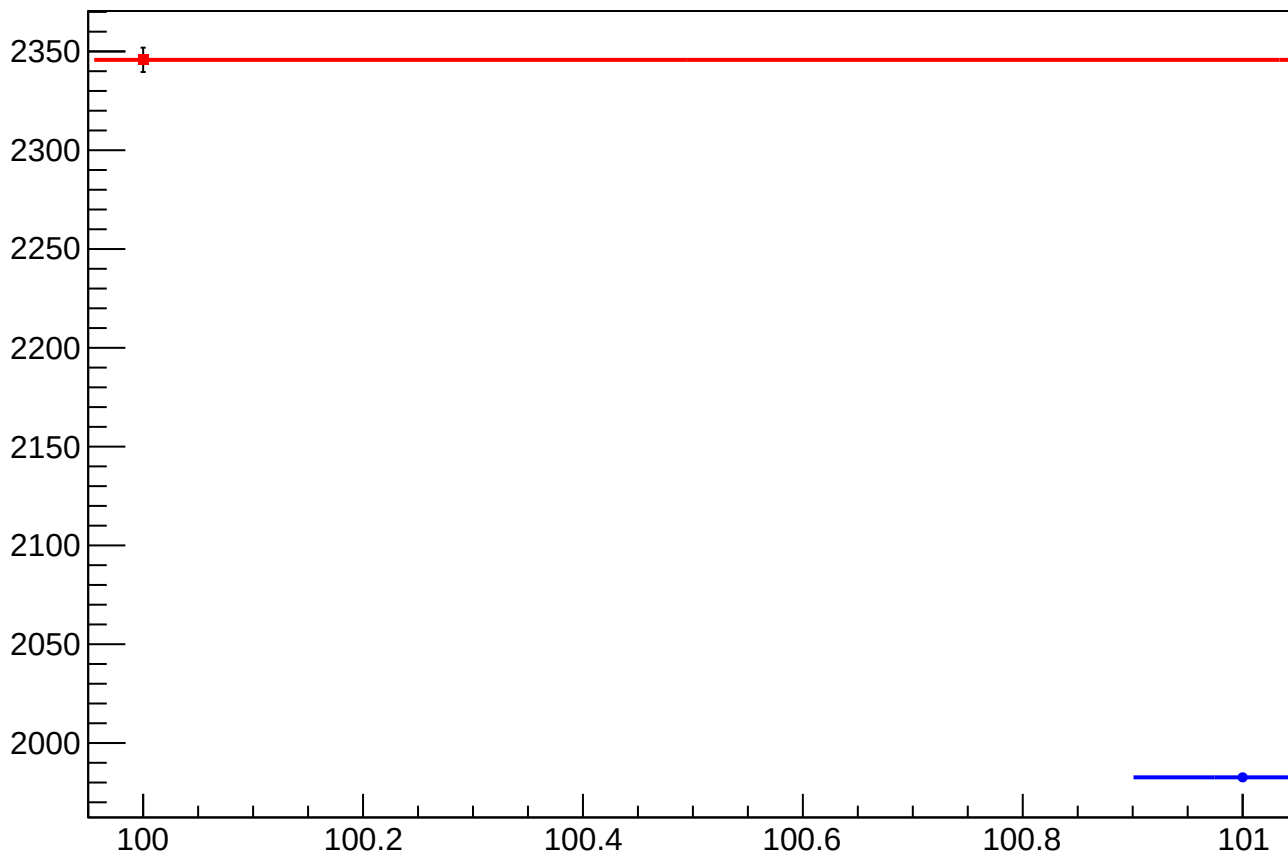
Right: 2686.159+/-2379.288  $\chi^2/\text{NDF}$ : 0.6/1

In: 3196.312+/-2473.247  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2686.159+/-2379.288  $\chi^2/\text{NDF}$ : 0.6/1

# dit\_asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 1982.628 $\pm$ 1.749  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2345.741 $\pm$ 6.162  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

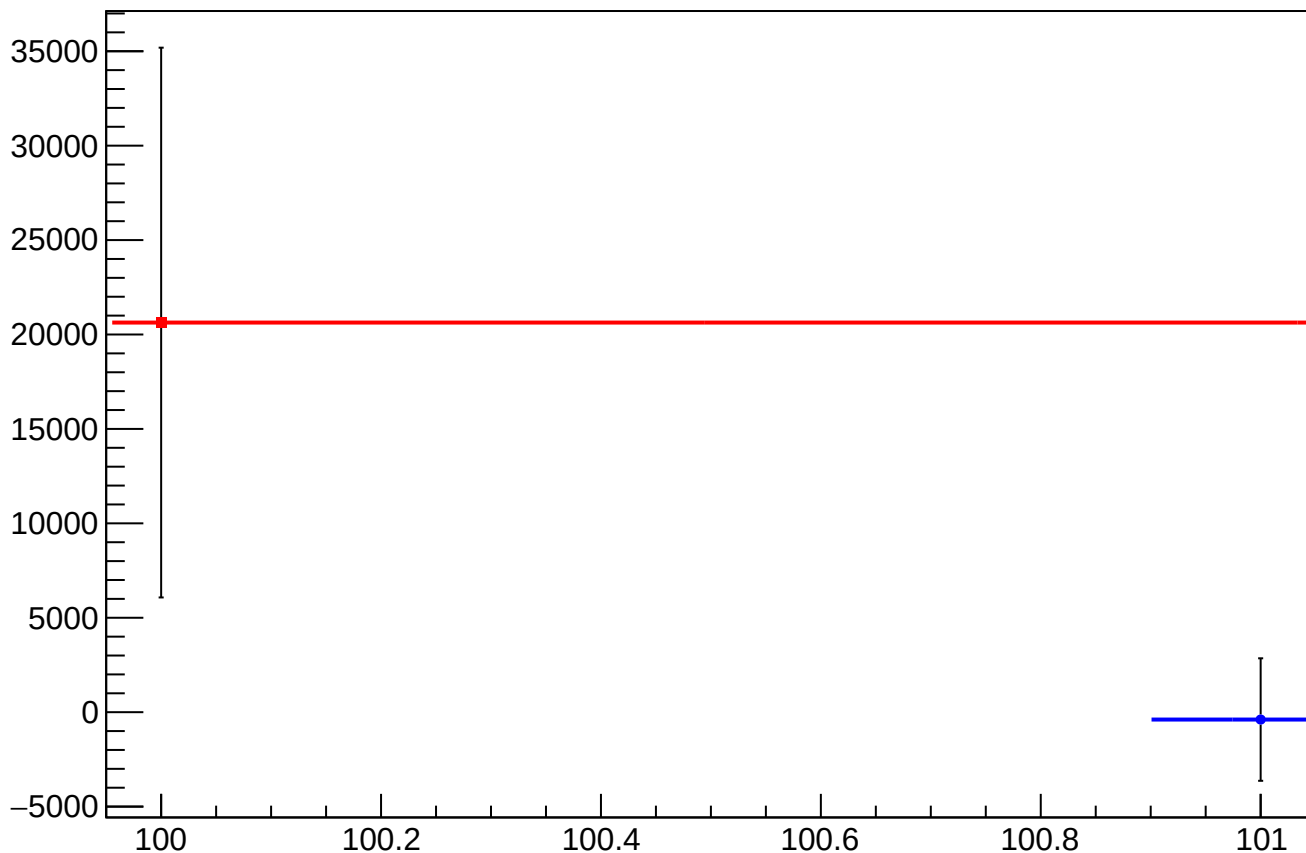
Right: 2009.694 $\pm$ 1.682  $\chi^2/\text{NDF}$ : 3213.3/1

In: 1982.628 $\pm$ 1.749  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2009.694 $\pm$ 1.682  $\chi^2/\text{NDF}$ : 3213.3/1

asym\_atl\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -390.148+/-3243.396  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20632.131+/-14556.604  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

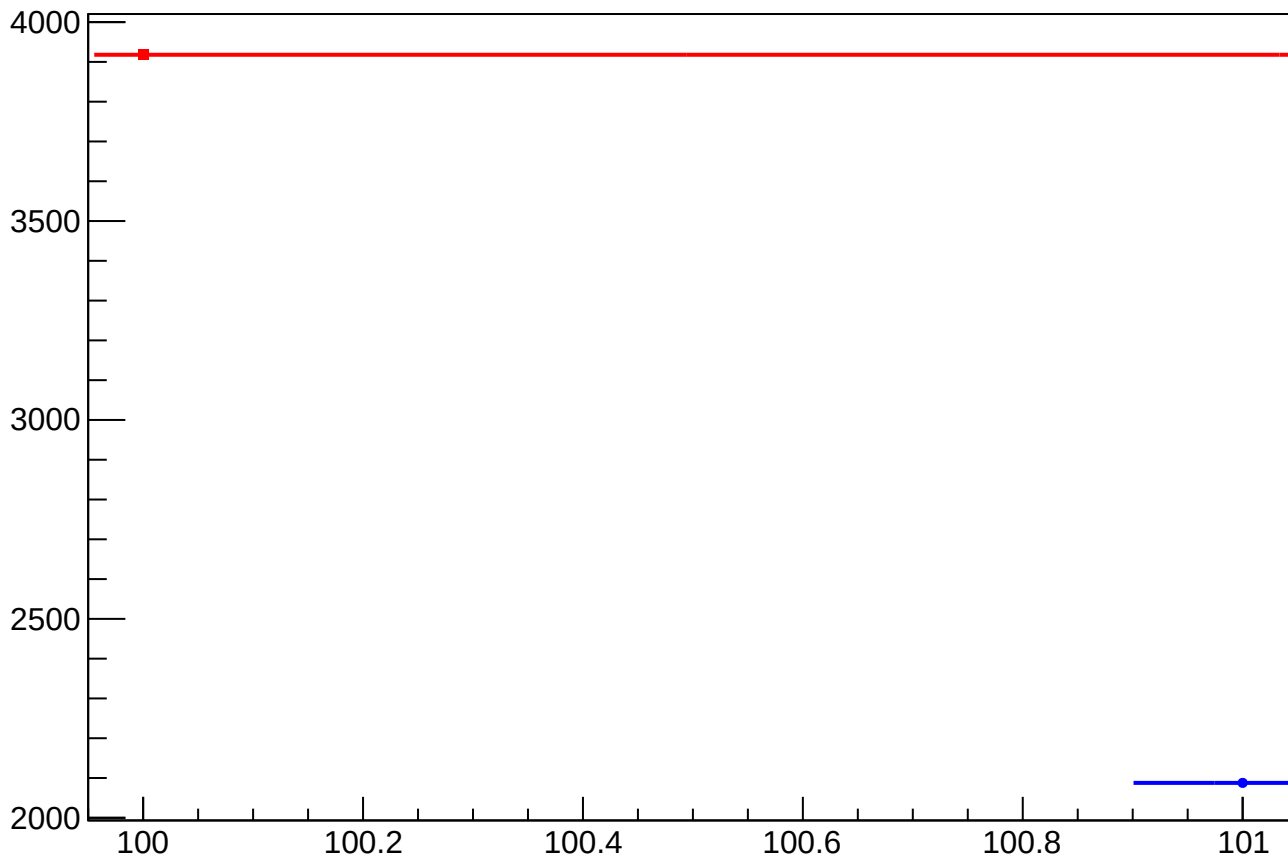
Right: 604.151+/-3165.765  $\chi^2/\text{NDF}$ : 2.0/1

In: -390.148+/-3243.396  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 604.151+/-3165.765  $\chi^2/\text{NDF}$ : 2.0/1

asym\_atl\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2087.734+/-2.293  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3917.937+/-10.293  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

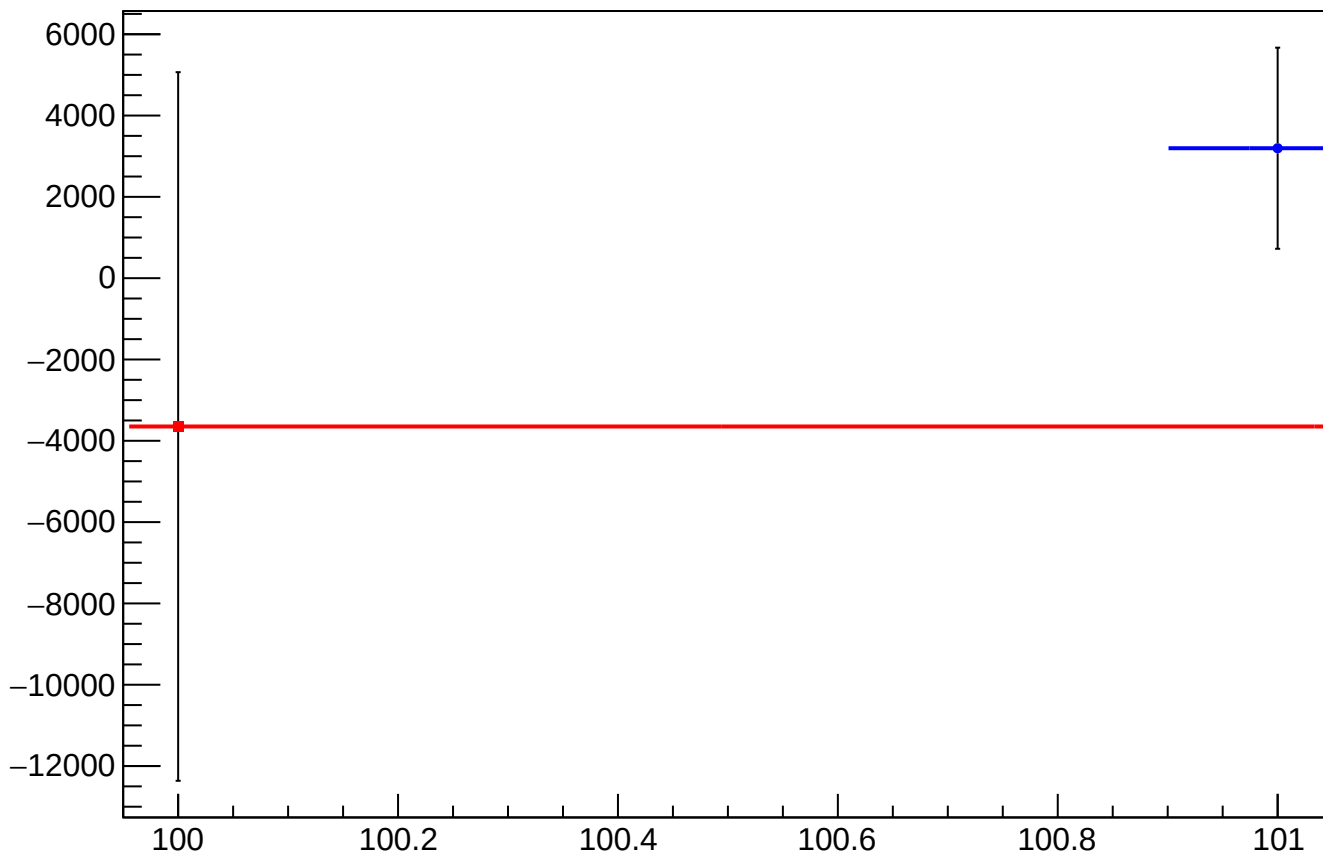
Right: 2174.298+/-2.239  $\chi^2/\text{NDF}$ : 30120.7/1

In: 2087.734+/-2.293  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2174.298+/-2.239  $\chi^2/\text{NDF}$ : 30120.7/1

eigen\_dit\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 3196.307+/-2473.247  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3647.933+/-8714.837  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

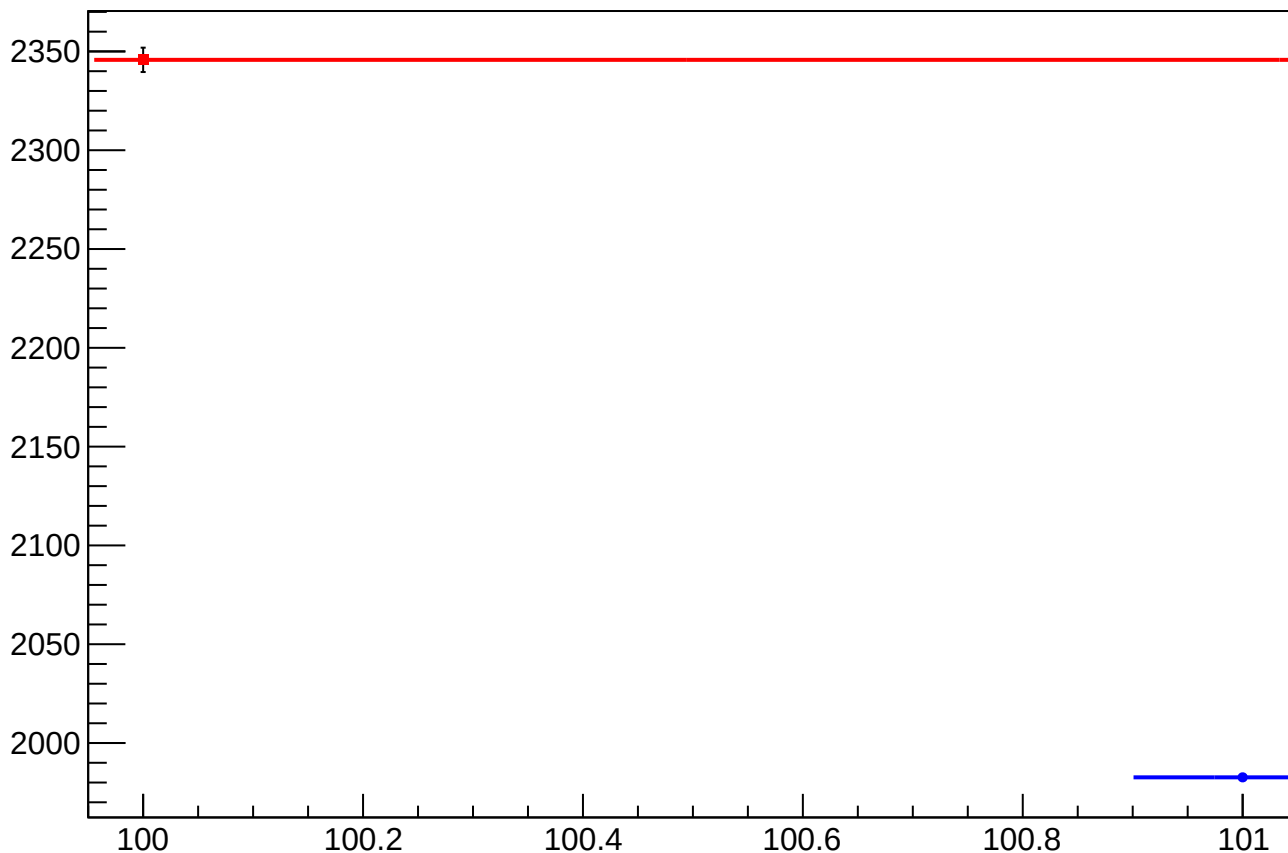
Right: 2686.154+/-2379.287  $\chi^2/\text{NDF}$ : 0.6/1

In: 3196.307+/-2473.247  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2686.154+/-2379.287  $\chi^2/\text{NDF}$ : 0.6/1

eigen\_dit\_asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 1982.628 $\pm$ 1.749  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2345.740 $\pm$ 6.162  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

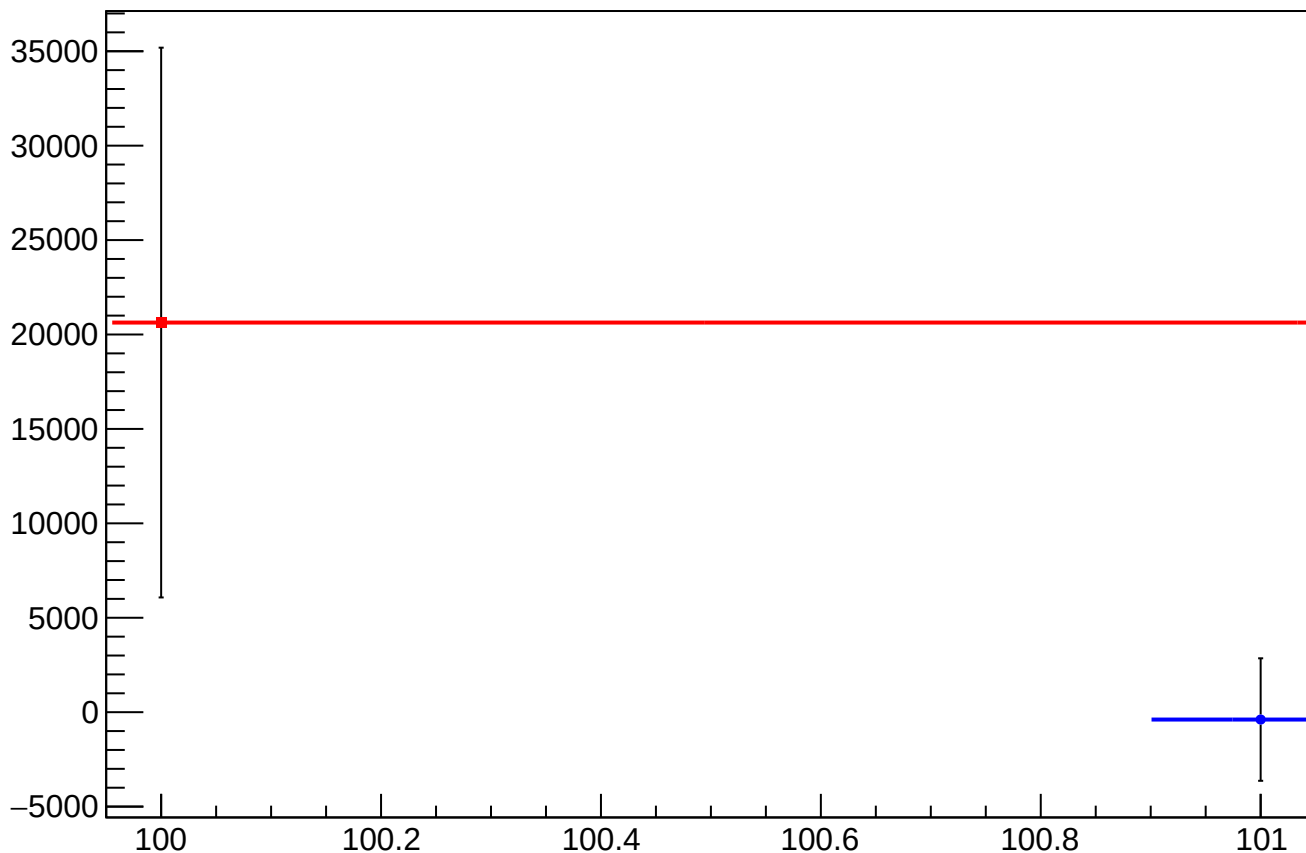
Right: 2009.693 $\pm$ 1.682  $\chi^2$ /NDF: 3213.3/1

In: 1982.628 $\pm$ 1.749  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2009.693 $\pm$ 1.682  $\chi^2$ /NDF: 3213.3/1

asym\_atl\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -390.138+/-3243.376  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20632.132+/-14556.581  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

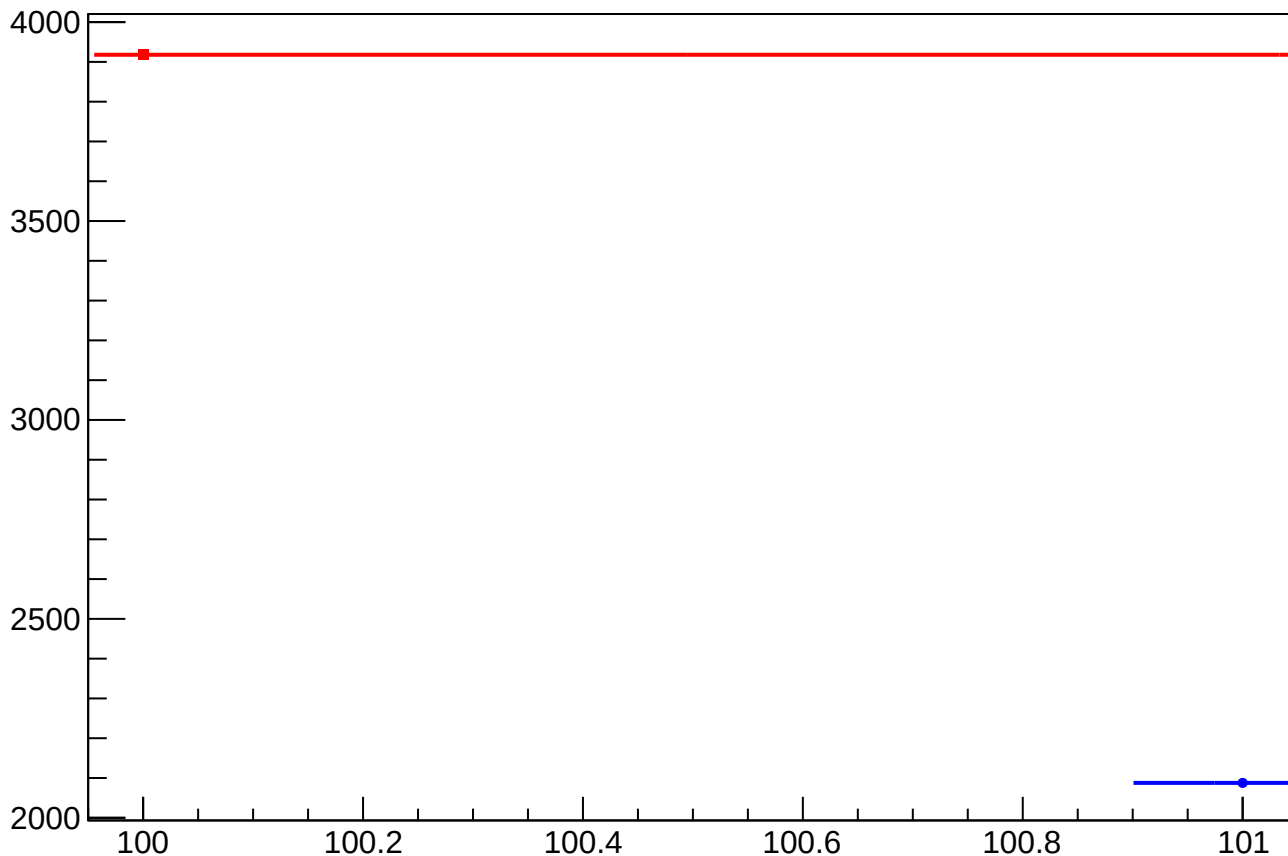
Right: 604.152+/-3165.746  $\chi^2/\text{NDF}$ : 2.0/1

In: -390.138+/-3243.376  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 604.152+/-3165.746  $\chi^2/\text{NDF}$ : 2.0/1

asym\_atl\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2087.716+/-2.293  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3917.931+/-10.293  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 2174.280+/-2.239  $\chi^2/\text{NDF}$ : 30121.2/1

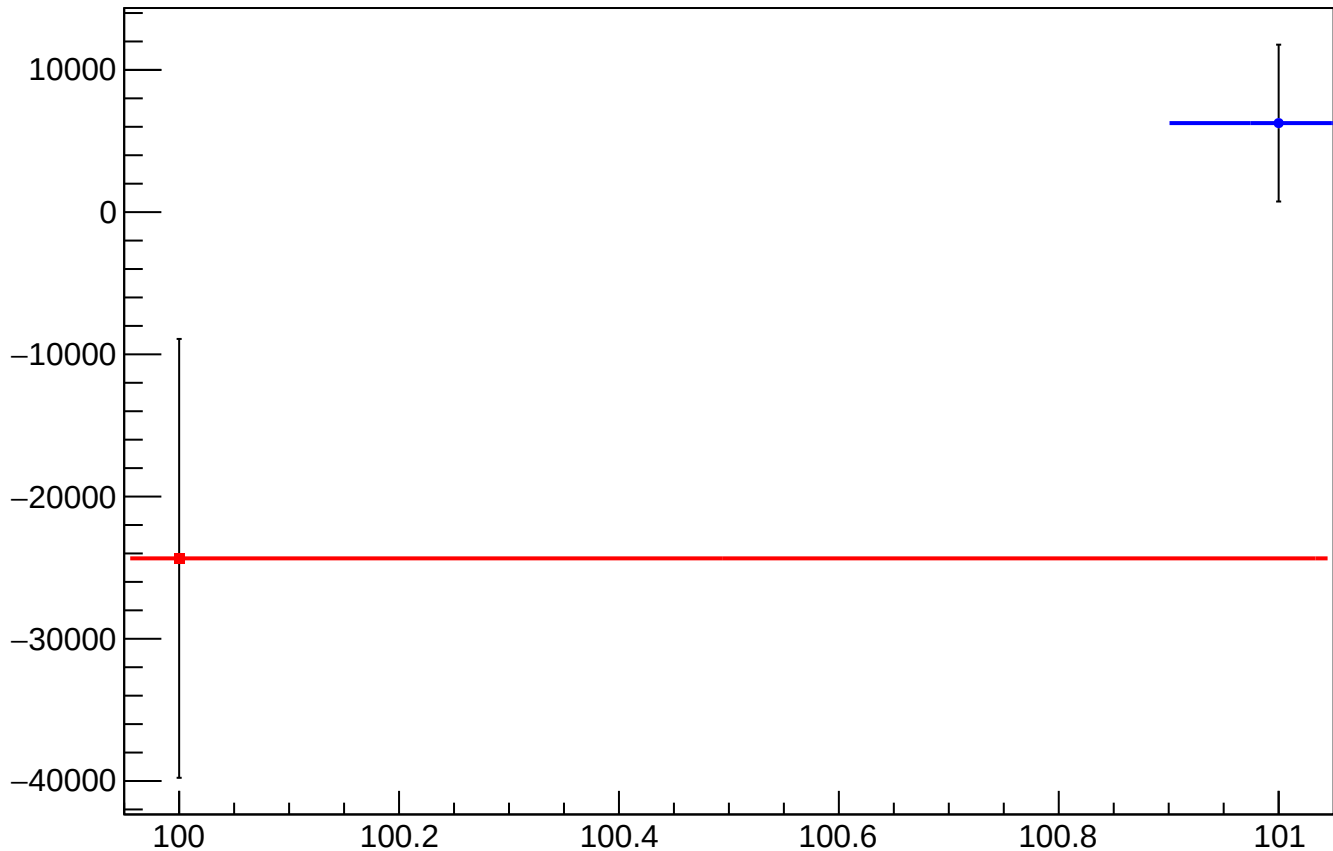
In: 2087.716+/-2.293  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2174.280+/-2.239  $\chi^2/\text{NDF}$ : 30121.2/1



# asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 6260.383+/-5514.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -24345.812+/-15429.193  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

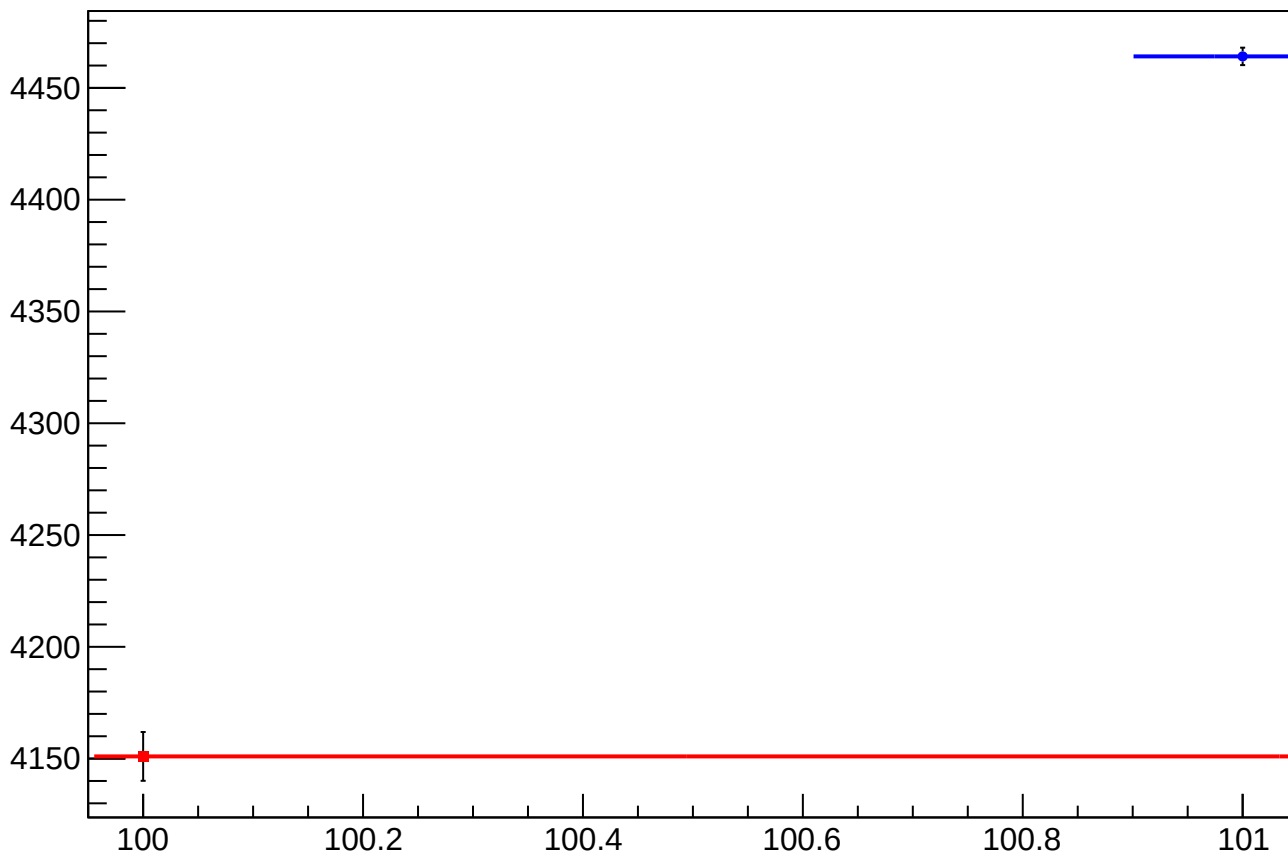
Right: 2793.839+/-5192.625  $\chi^2/\text{NDF}$ : 3.5/1

In: 6260.383+/-5514.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2793.839+/-5192.625  $\chi^2/\text{NDF}$ : 3.5/1

# asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 4464.097 $\pm$ 3.899  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4150.985 $\pm$ 10.910  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

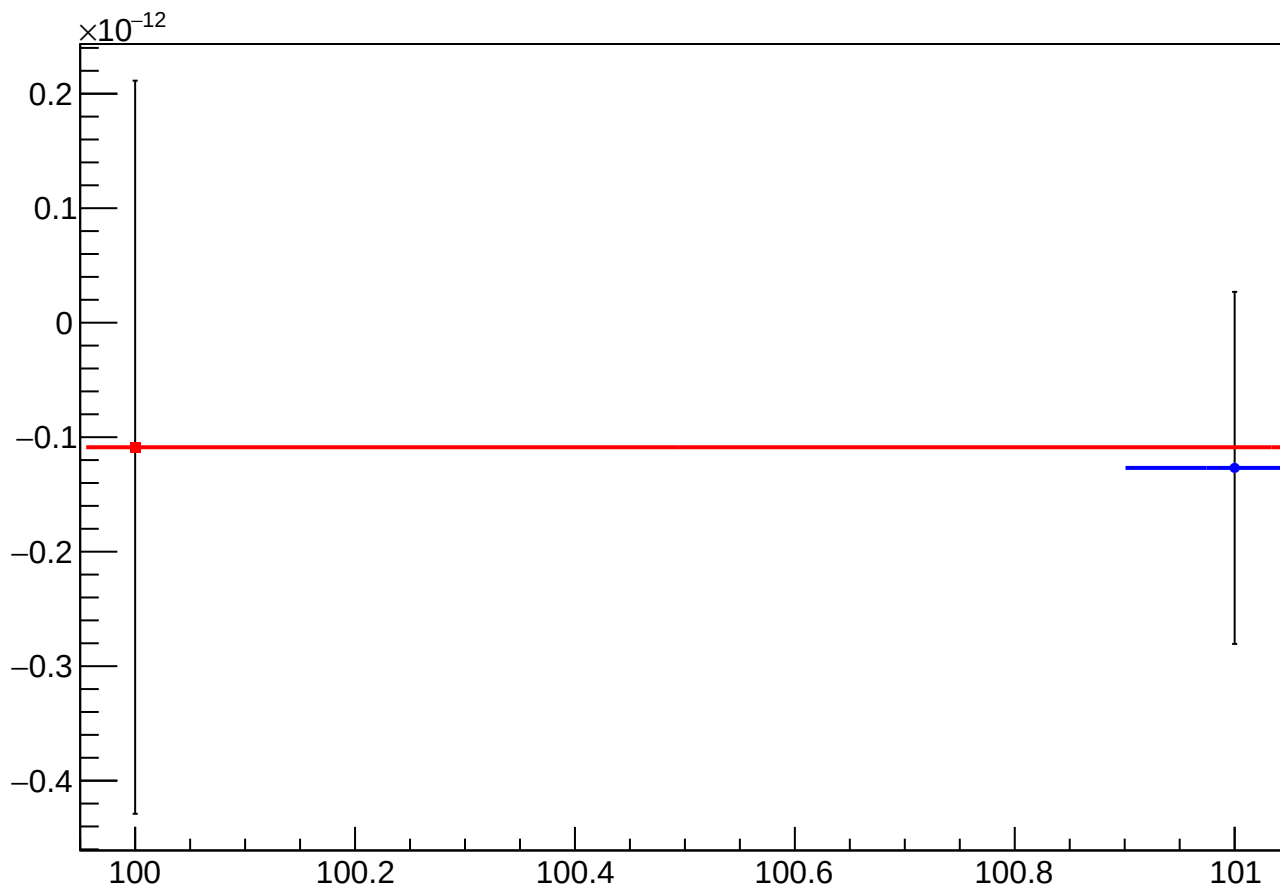
Right: 4428.633 $\pm$ 3.672  $\chi^2$ /NDF: 730.4/1

In: 4464.097 $\pm$ 3.899  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4428.633 $\pm$ 3.672  $\chi^2$ /NDF: 730.4/1

asym\_atl\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

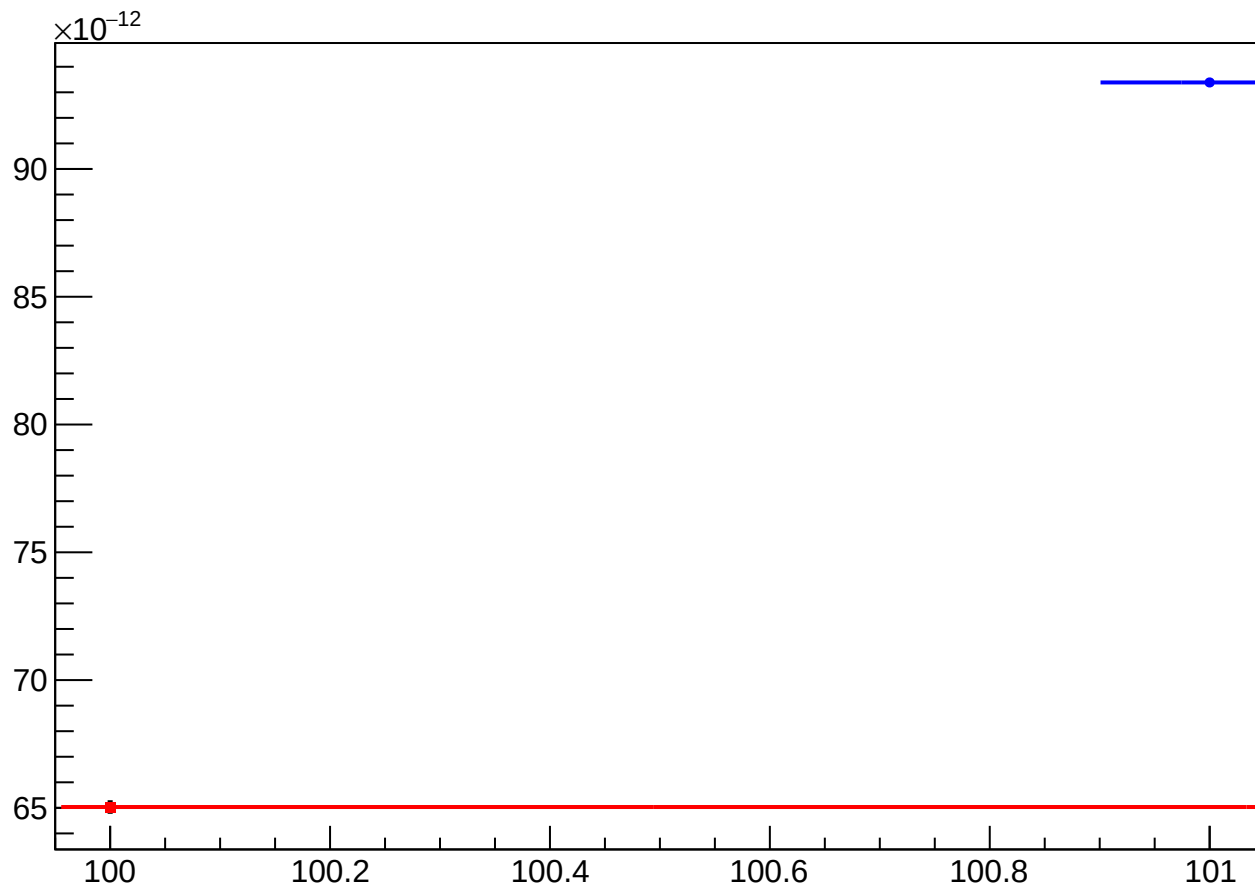
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

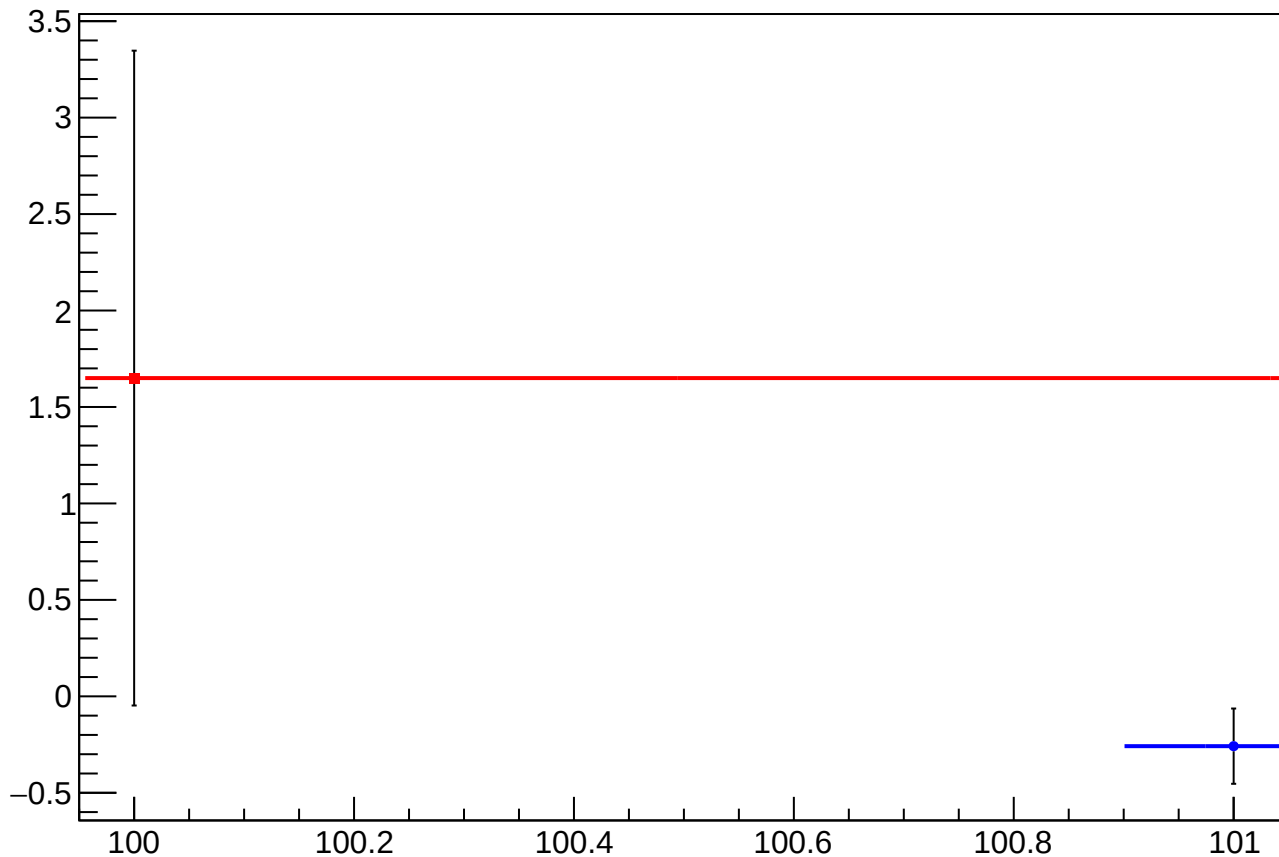
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12745.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12745.3/1

asym\_atl\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.258+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.650+/-1.697  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

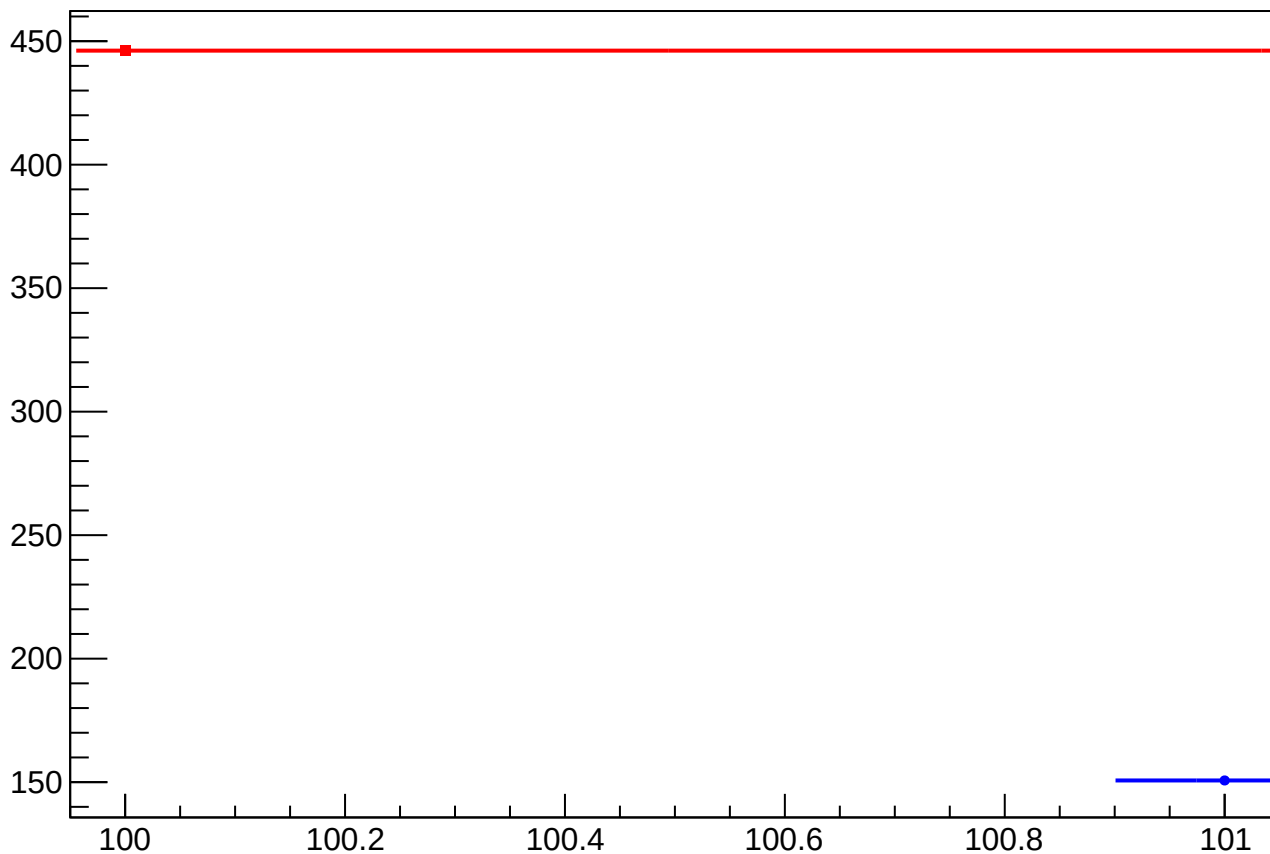
Right: -0.233+/-0.194  $\chi^2/\text{NDF}$ : 1.2/1

In: -0.258+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.233+/-0.194  $\chi^2/\text{NDF}$ : 1.2/1

asym\_atl\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 150.687 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.170 $\pm$ 1.200  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

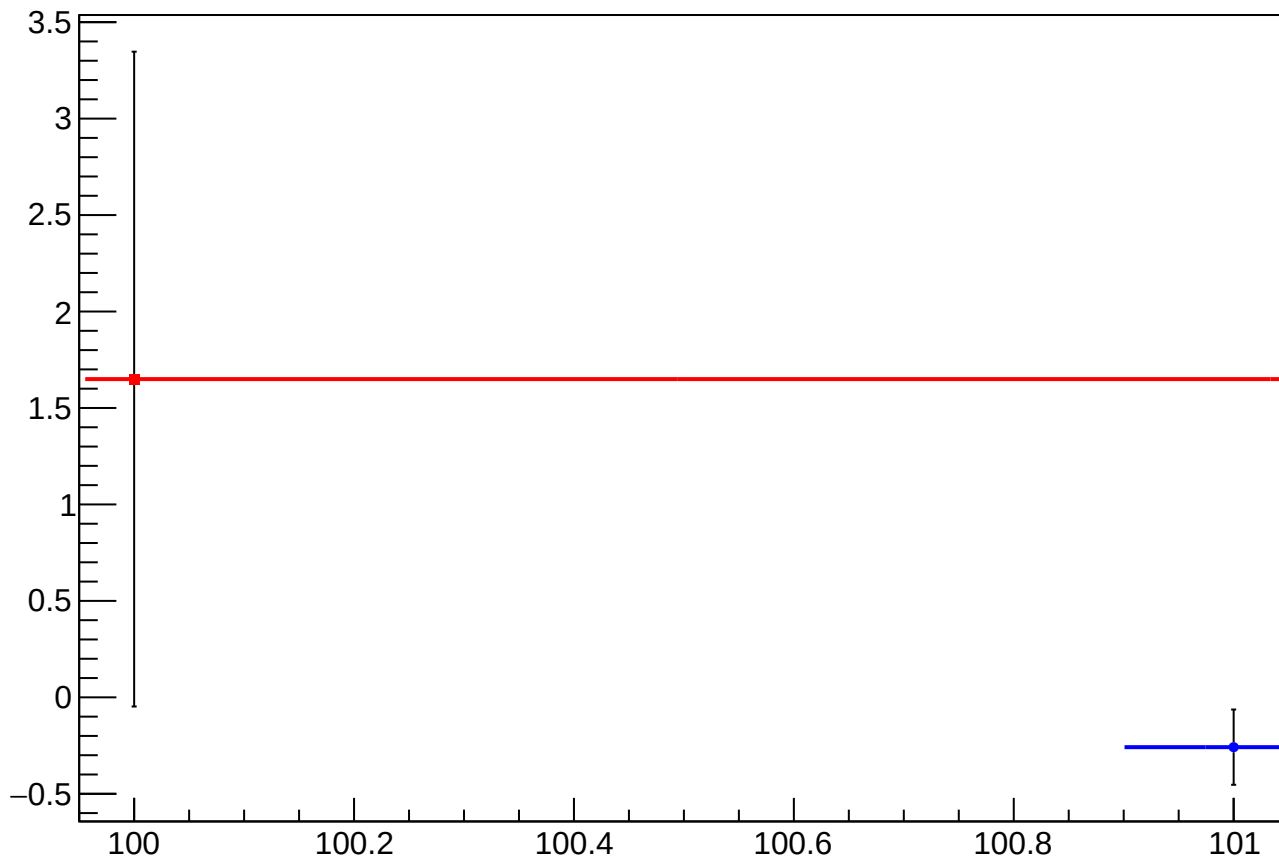
Right: 154.540 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 59827.0/1

In: 150.687 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 154.540 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 59827.0/1

asym\_atl\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.258+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.650+/-1.697  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

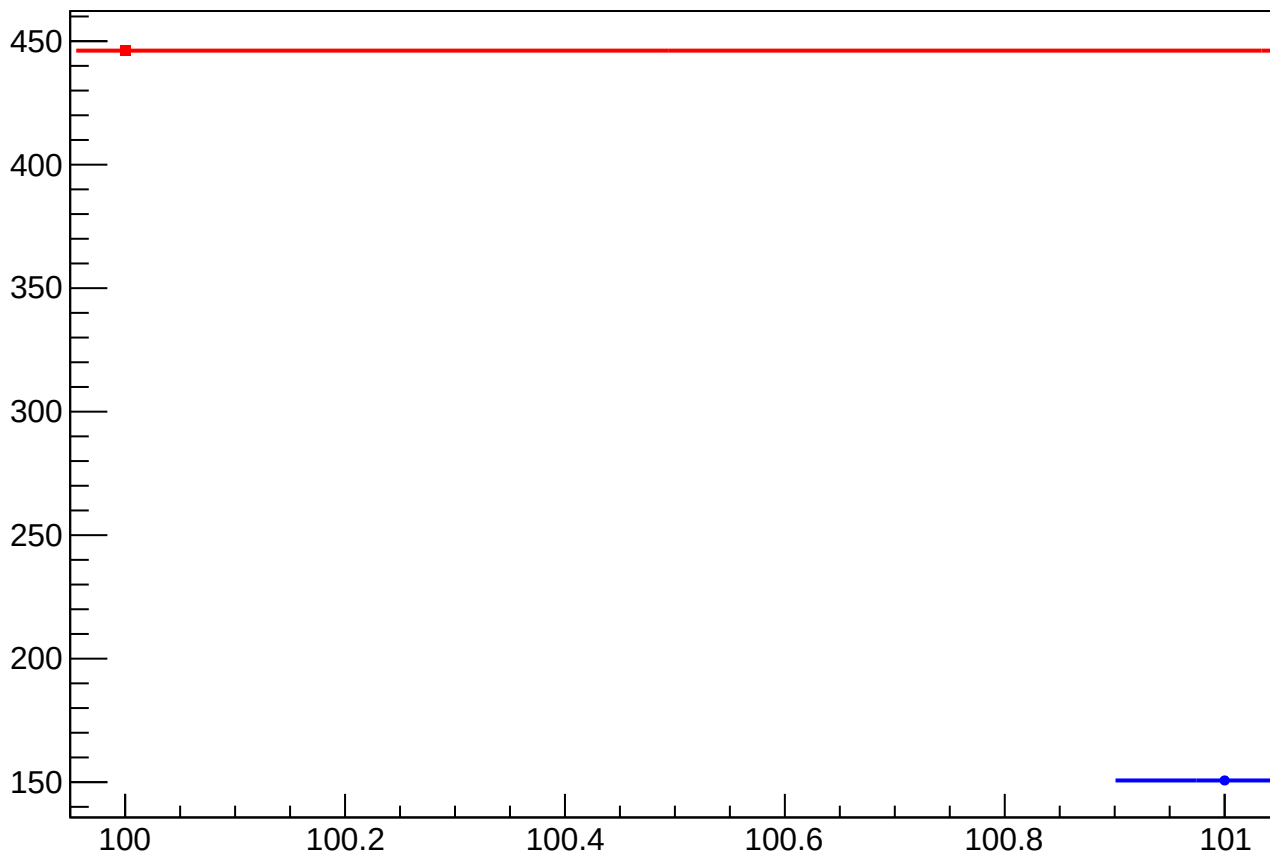
Right: -0.233+/-0.194  $\chi^2/\text{NDF}$ : 1.2/1

In: -0.258+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.233+/-0.194  $\chi^2/\text{NDF}$ : 1.2/1

asym\_atl\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 150.687 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.170 $\pm$ 1.200  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 154.540 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 59827.0/1

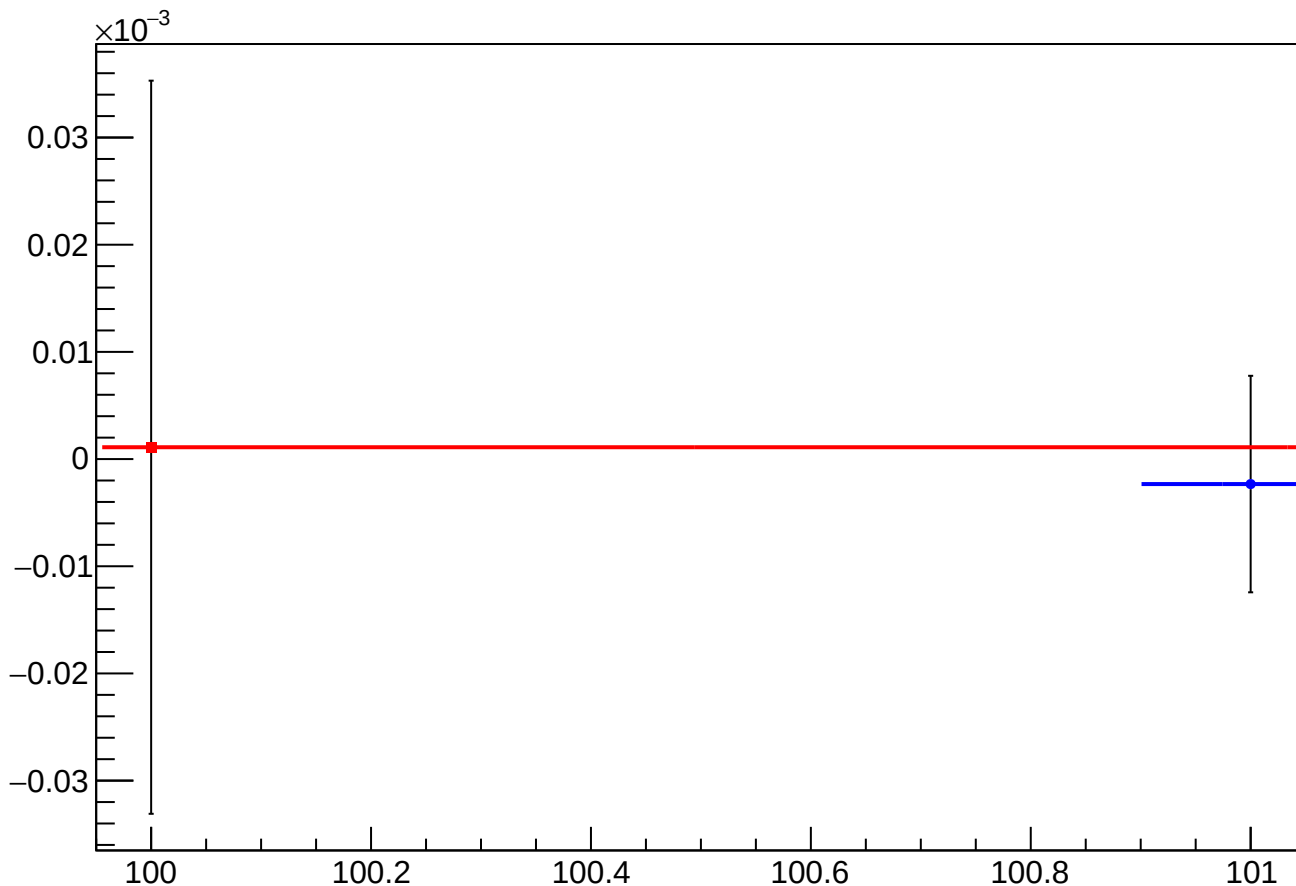
In: 150.687 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 154.540 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 59827.0/1



asym\_atl\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

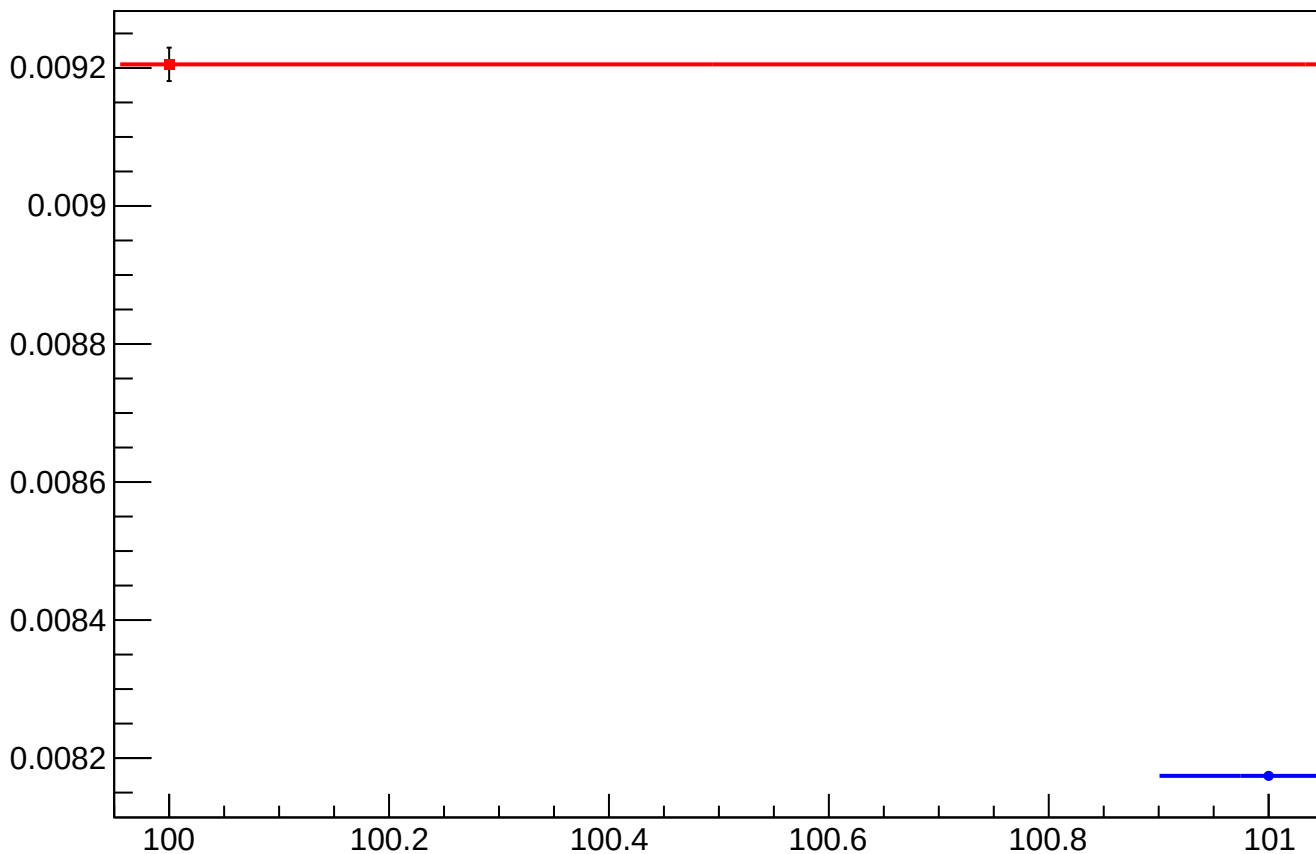
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

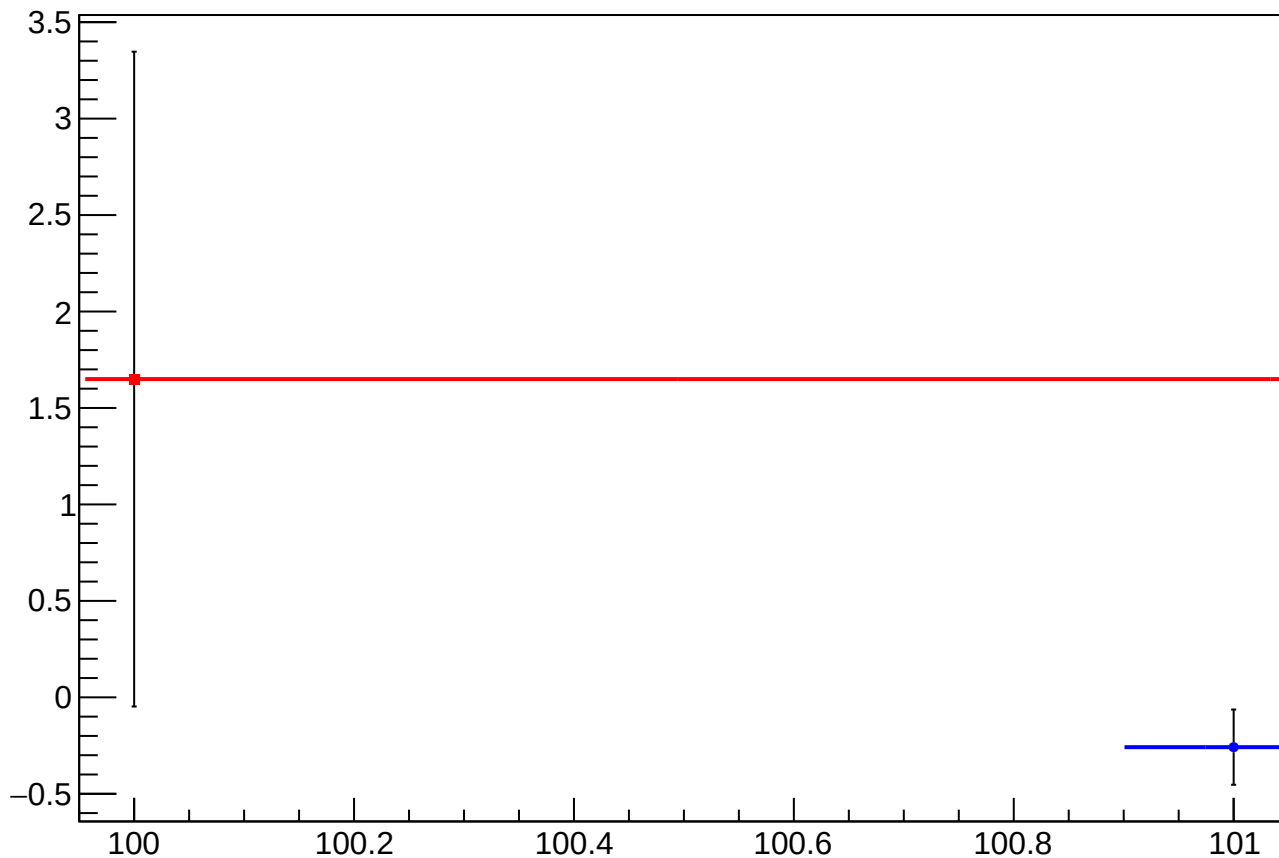
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1671.7/1

In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 1671.7/1

asym\_atl\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.258+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.650+/-1.697  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

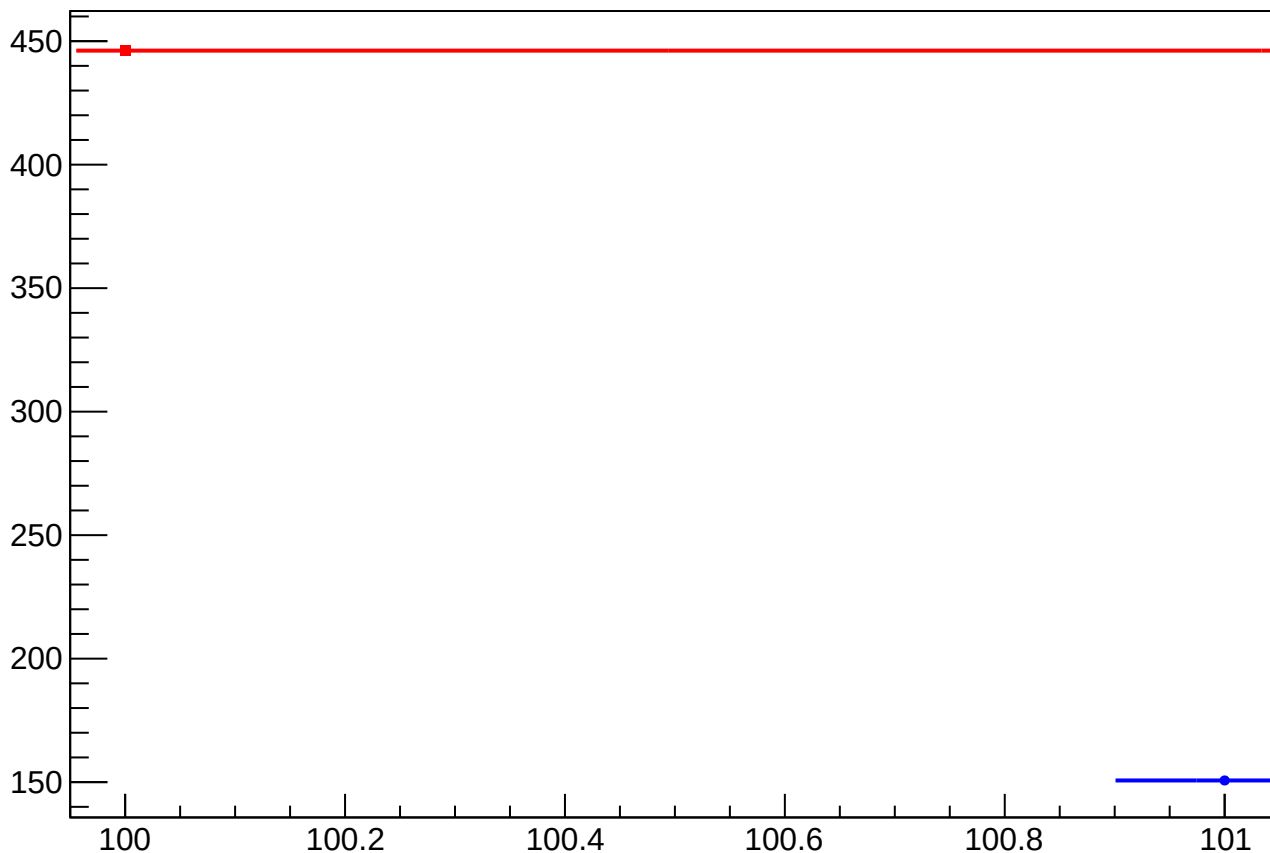
Right: -0.233+/-0.194  $\chi^2/\text{NDF}$ : 1.2/1

In: -0.258+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.233+/-0.194  $\chi^2/\text{NDF}$ : 1.2/1

asym\_atl\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 150.683 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.165 $\pm$ 1.200  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

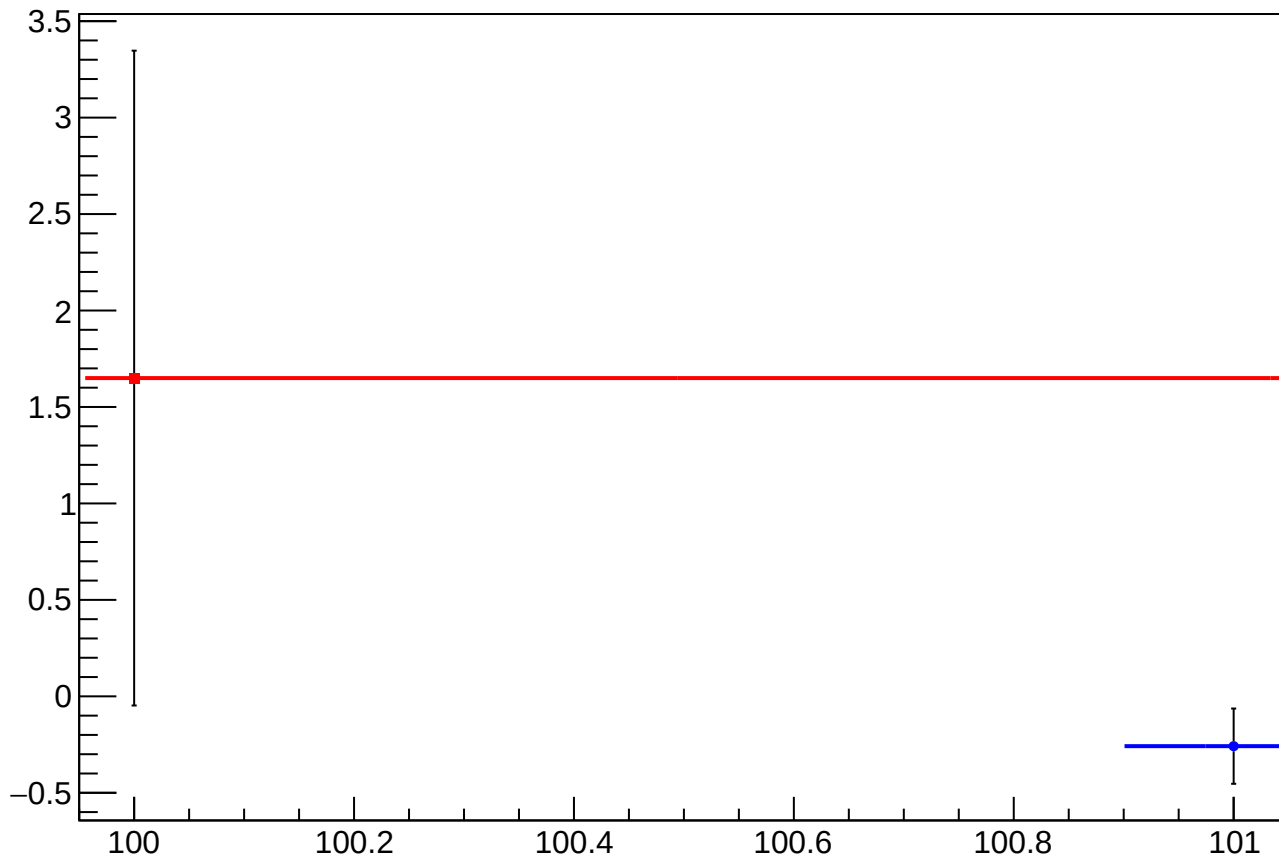
Right: 154.536 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 59827.8/1

In: 150.683 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 154.536 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 59827.8/1

asym\_atl\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.258+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.650+/-1.697  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

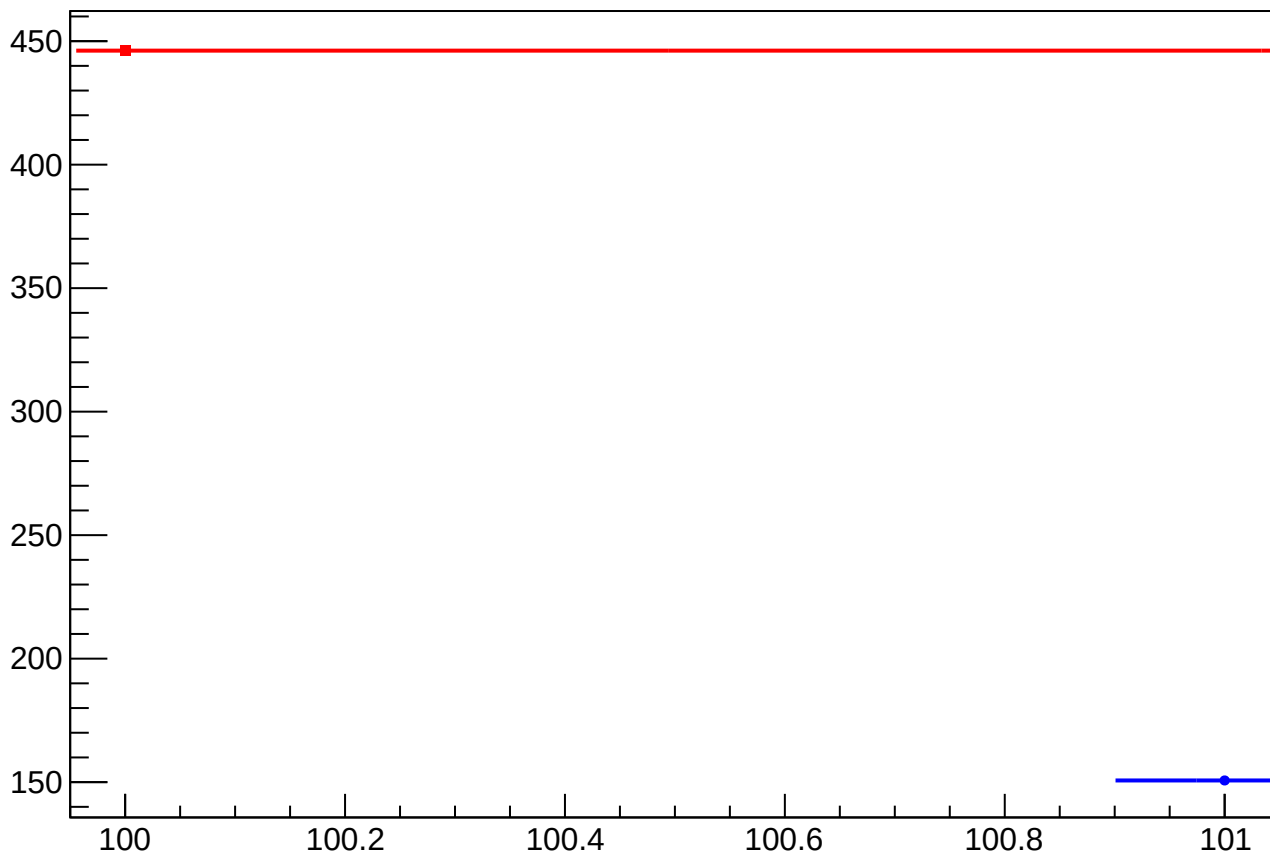
Right: -0.233+/-0.194  $\chi^2/\text{NDF}$ : 1.2/1

In: -0.258+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.233+/-0.194  $\chi^2/\text{NDF}$ : 1.2/1

asym\_atl\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 150.683+/-0.138  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.165+/-1.200  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

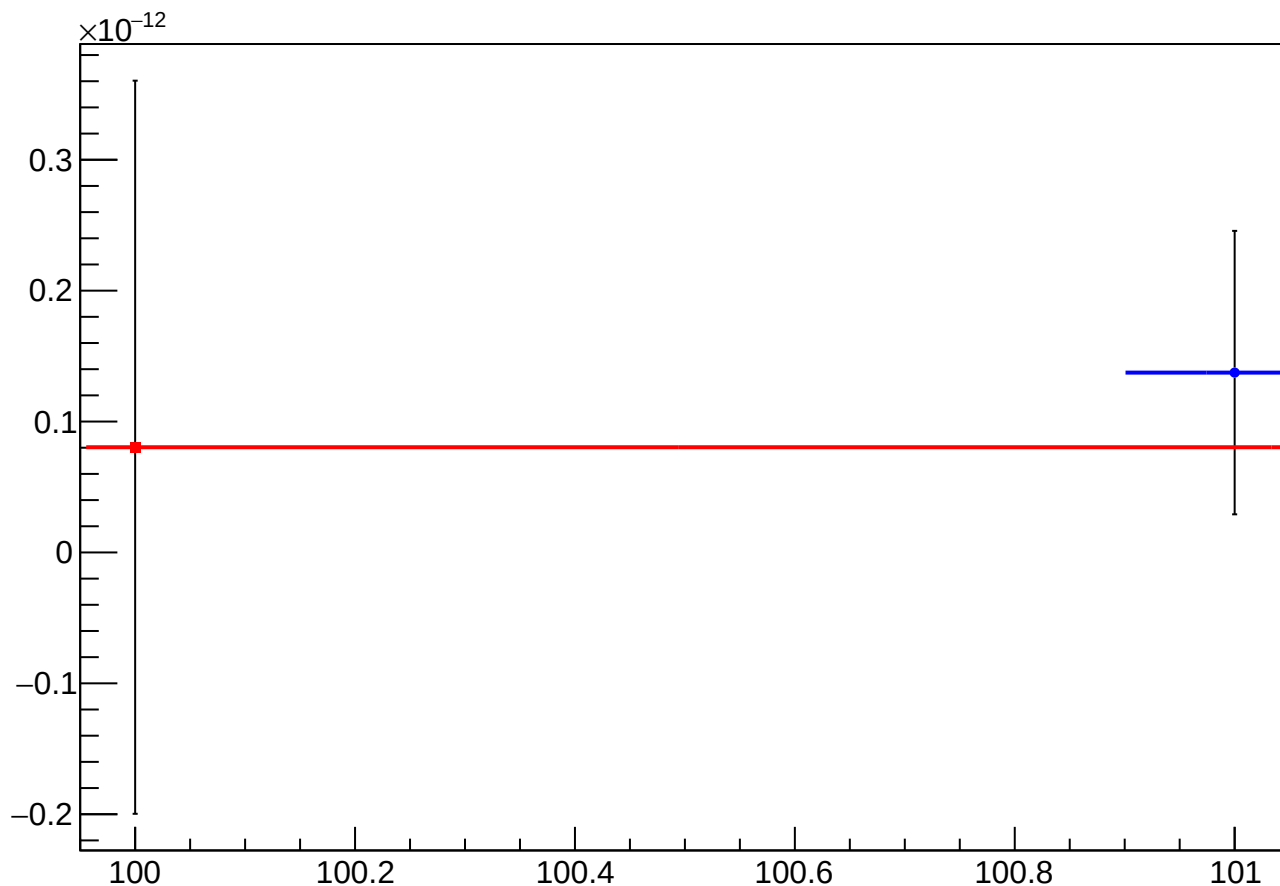
Right: 154.536+/-0.137  $\chi^2/\text{NDF}$ : 59827.8/1

In: 150.683+/-0.138  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 154.536+/-0.137  $\chi^2/\text{NDF}$ : 59827.8/1

asym\_atl\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

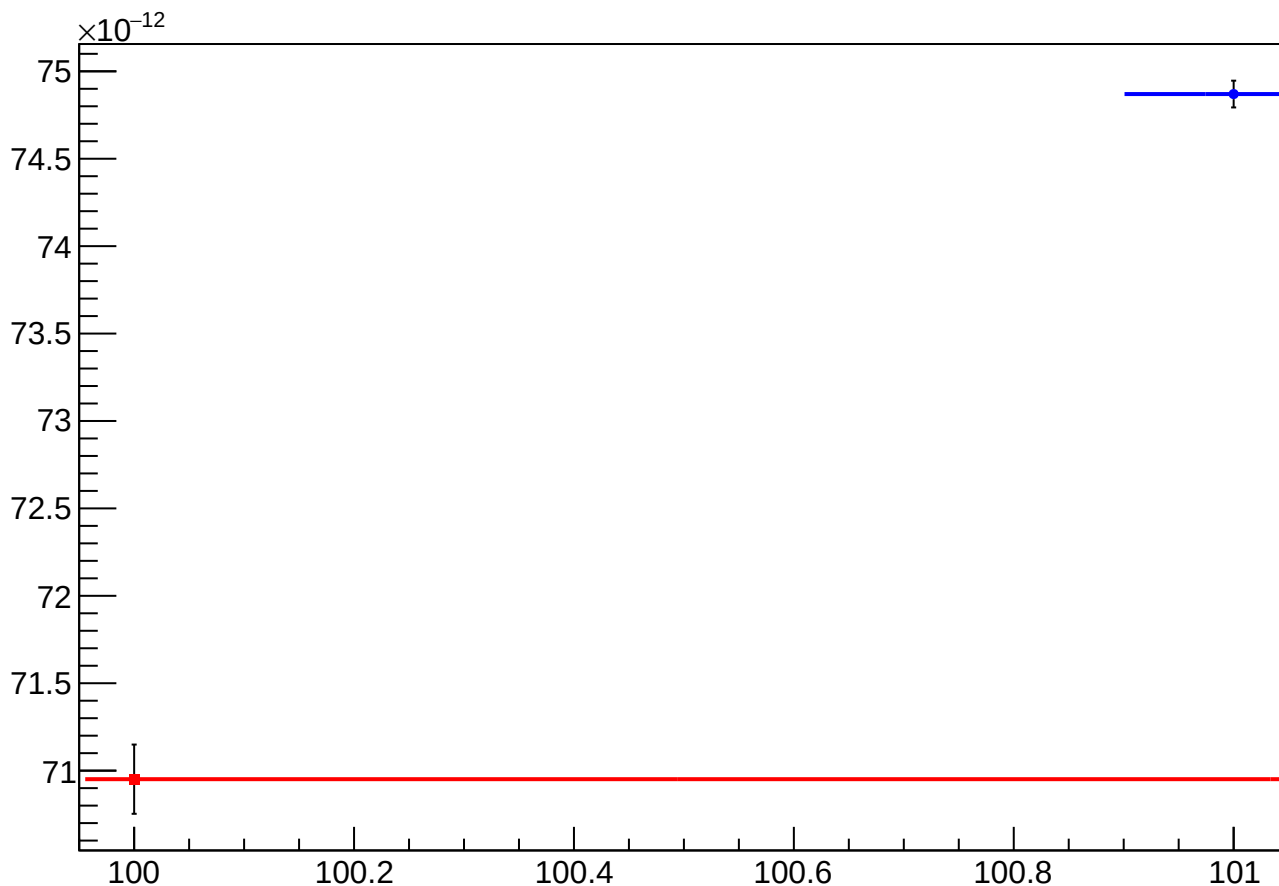
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 340.7/1

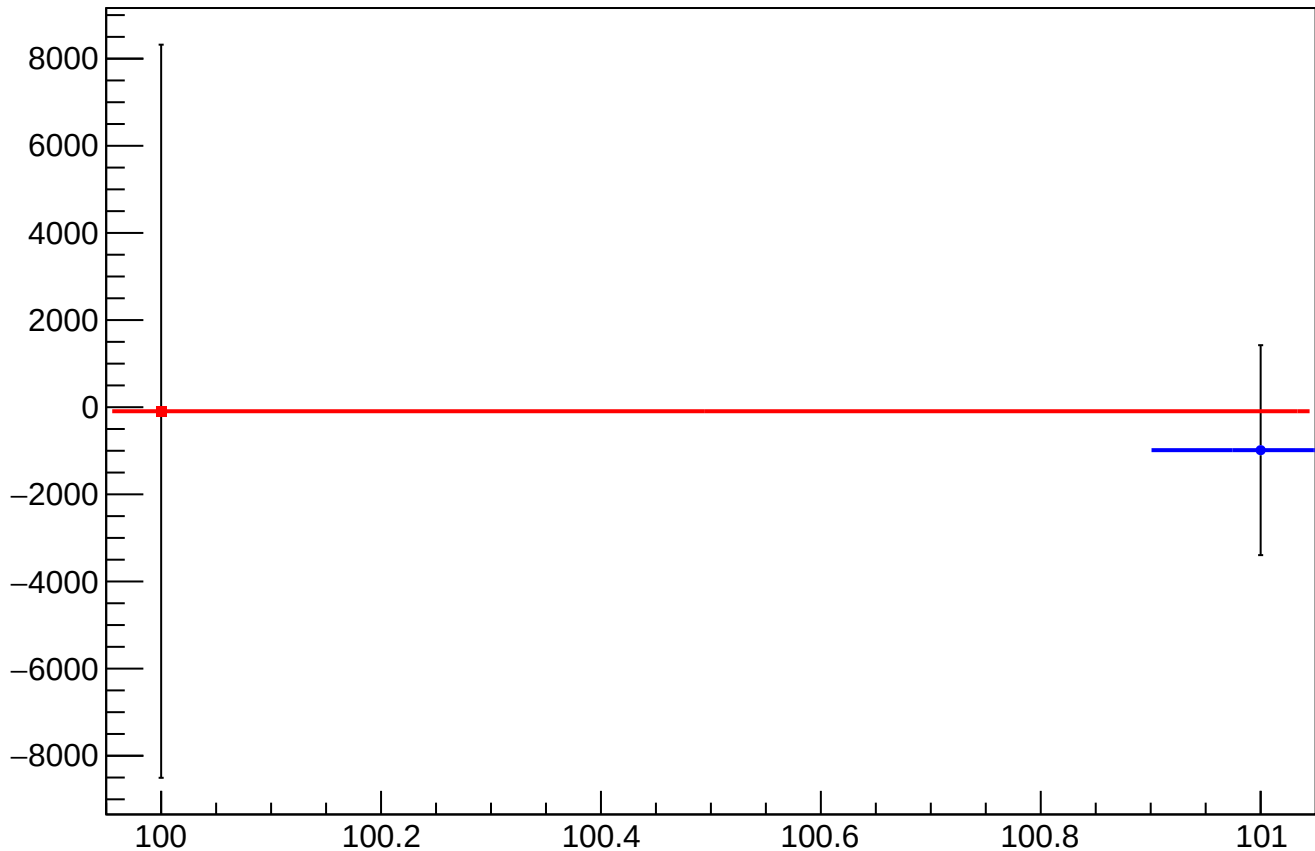
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 340.7/1



# reg\_asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: -985.826 $\pm$ 2409.326  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -92.512 $\pm$ 8413.585  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

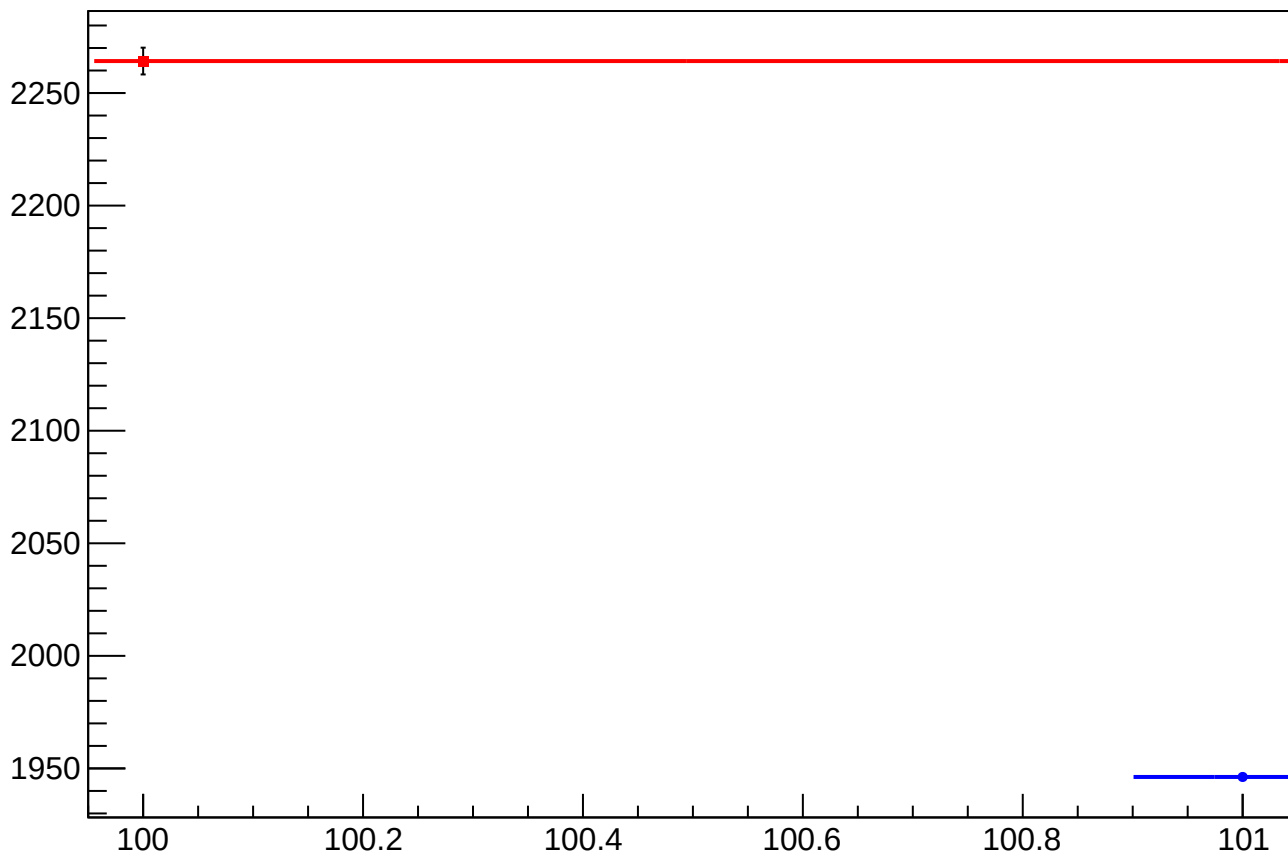
Right: -918.124 $\pm$ 2316.229  $\chi^2$ /NDF: 0.0/1

In: -985.826 $\pm$ 2409.326  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -918.124 $\pm$ 2316.229  $\chi^2$ /NDF: 0.0/1

# reg\_asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 1946.206 $\pm$ 1.704  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2264.198 $\pm$ 5.949  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

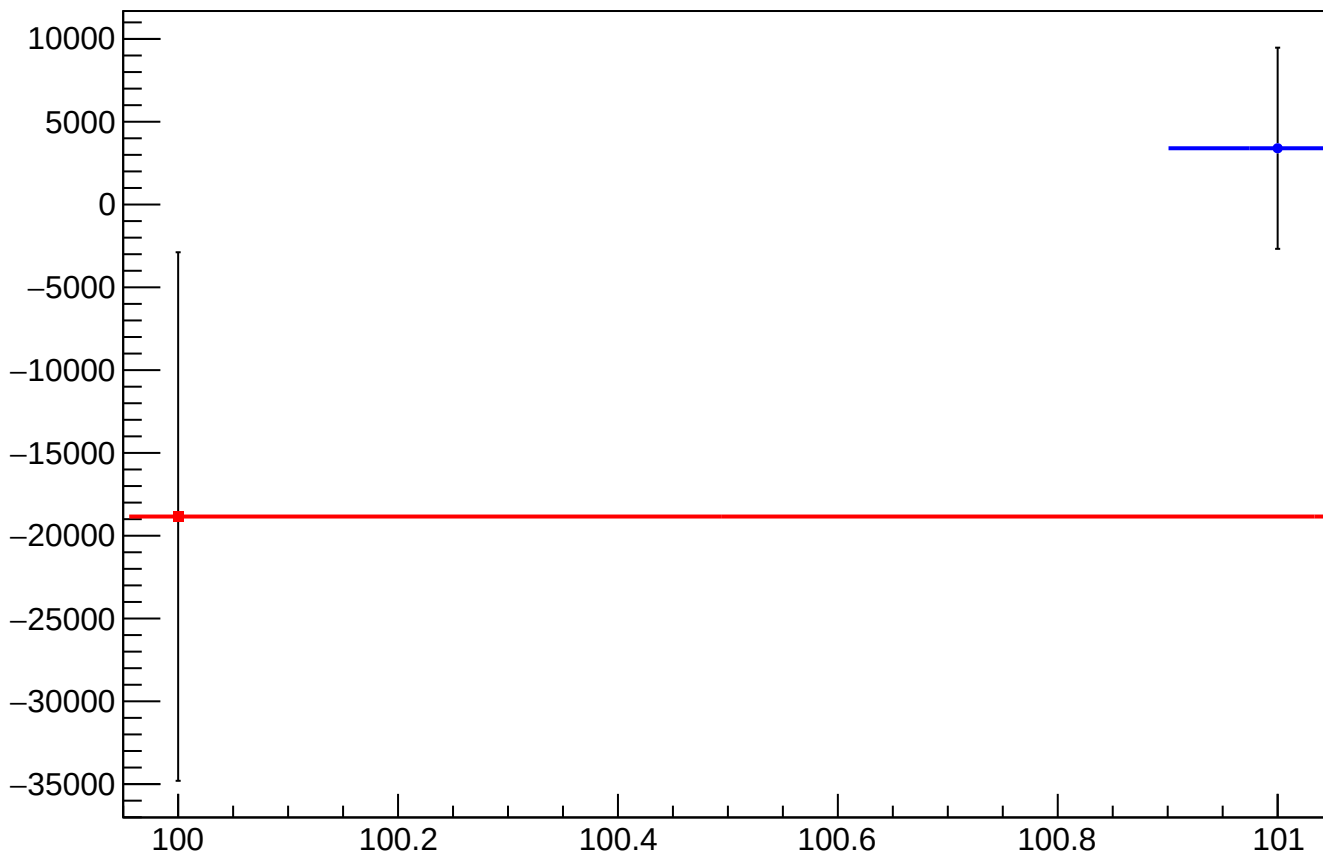
Right: 1970.306 $\pm$ 1.638  $\chi^2$ /NDF: 2640.4/1

In: 1946.206 $\pm$ 1.704  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1970.306 $\pm$ 1.638  $\chi^2$ /NDF: 2640.4/1

asym\_atl\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 3398.362+/-6074.433  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1841.081+/-15959.034  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

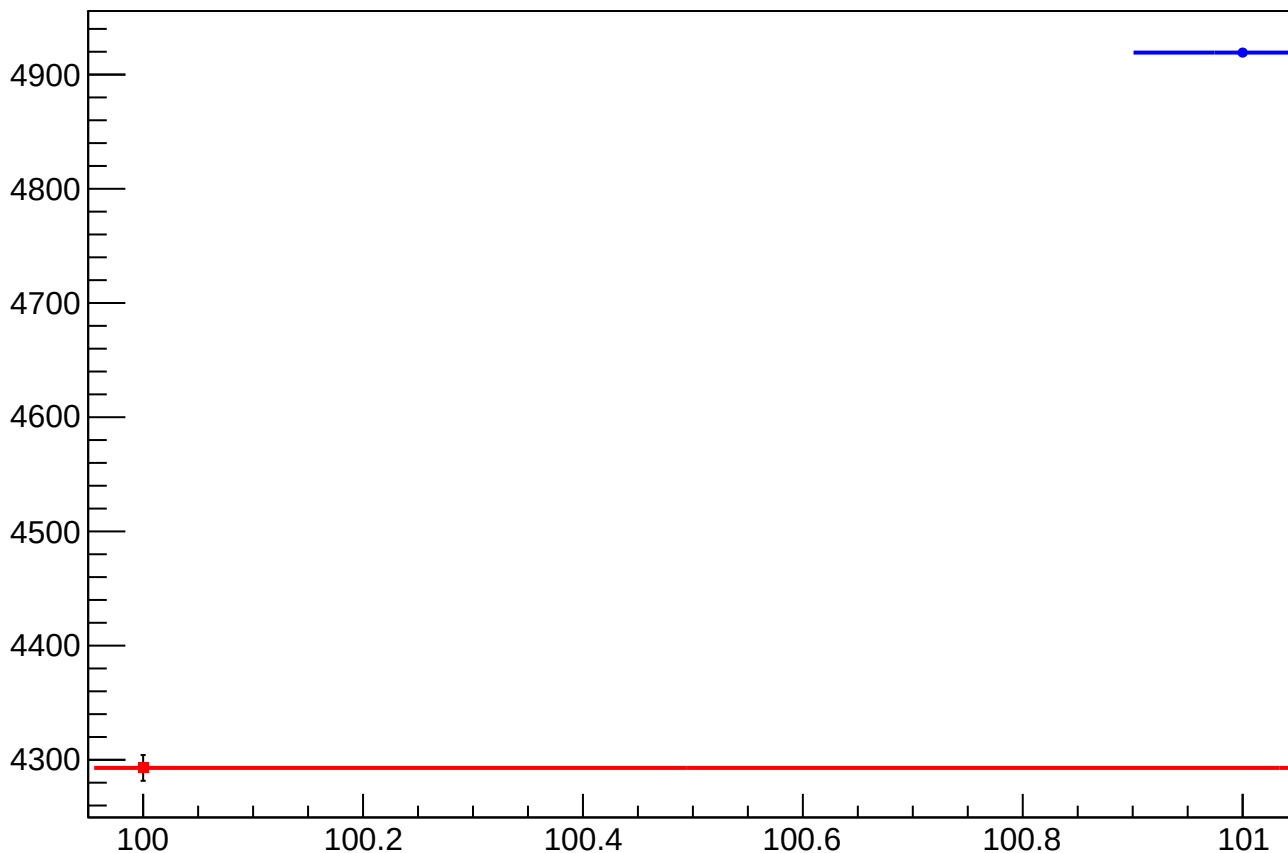
Right: 584.106+/-5677.098  $\chi^2/\text{NDF}$ : 1.7/1

In: 3398.362+/-6074.433  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 584.106+/-5677.098  $\chi^2/\text{NDF}$ : 1.7/1

asym\_atl\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4919.271 $\pm$ 4.295  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4292.929 $\pm$ 11.285  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

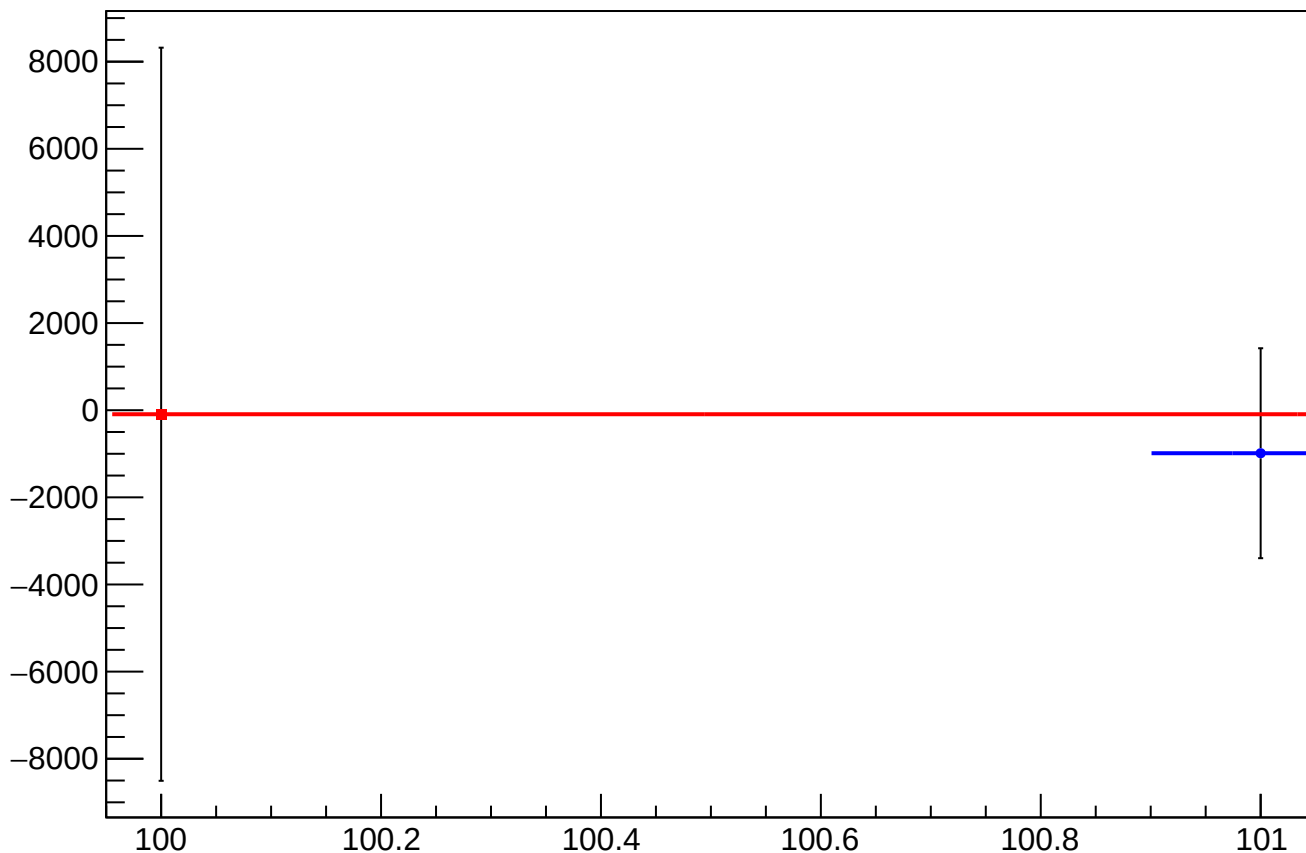
Right: 4840.012 $\pm$ 4.014  $\chi^2$ /NDF: 2690.8/1

In: 4919.271 $\pm$ 4.295  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 4840.012 $\pm$ 4.014  $\chi^2$ /NDF: 2690.8/1

# cor\_asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: -987.253+/-2409.328  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -92.437+/-8413.585  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

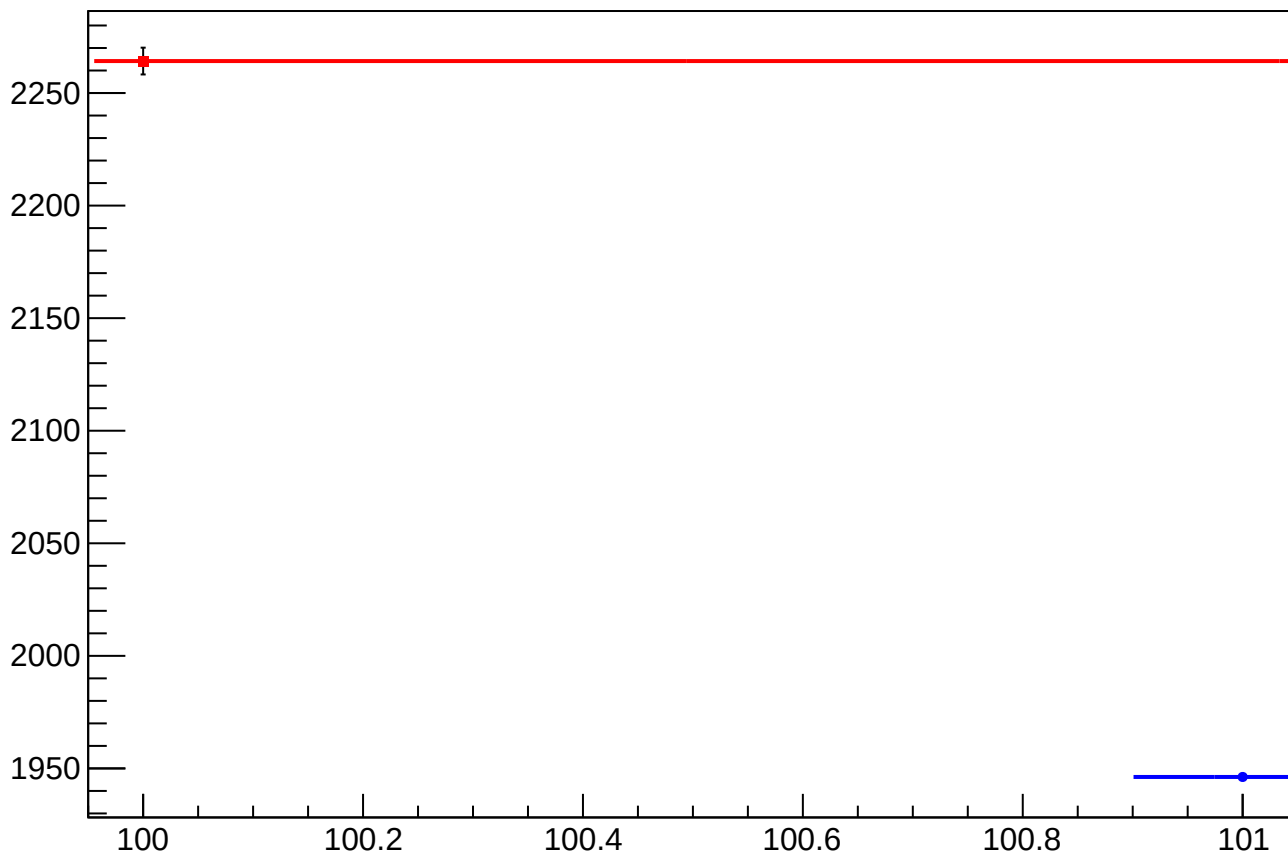
Right: -919.437+/-2316.230  $\chi^2/\text{NDF}$ : 0.0/1

In: -987.253+/-2409.328  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -919.437+/-2316.230  $\chi^2/\text{NDF}$ : 0.0/1

# cor\_asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 1946.206 $\pm$ 1.704  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2264.198 $\pm$ 5.949  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

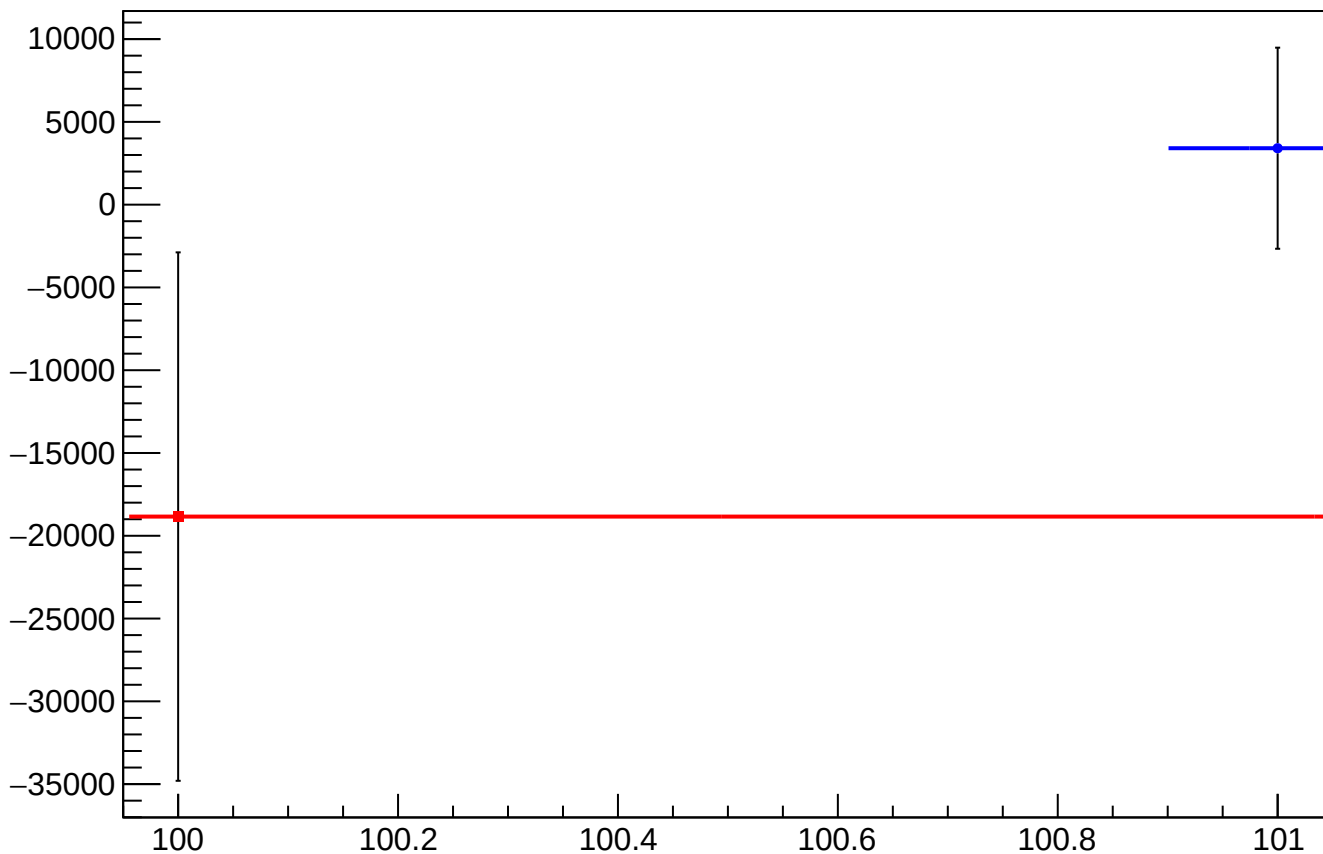
Right: 1970.306 $\pm$ 1.638  $\chi^2$ /NDF: 2640.4/1

In: 1946.206 $\pm$ 1.704  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1970.306 $\pm$ 1.638  $\chi^2$ /NDF: 2640.4/1

asym\_atl\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 3408.867 $\pm$ 6073.261  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18410.012 $\pm$ 15959.031  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

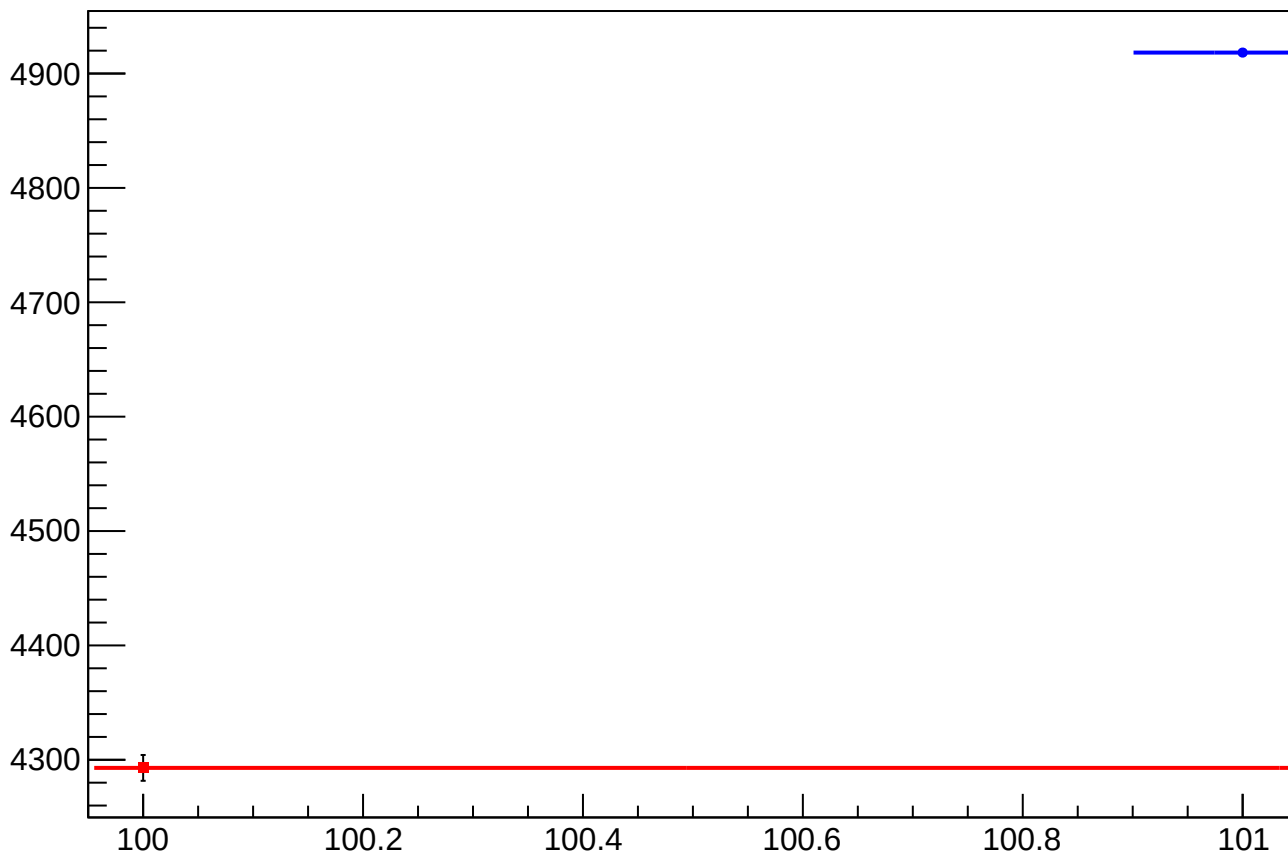
Right: 594.239 $\pm$ 5676.141  $\chi^2/\text{NDF}$ : 1.7/1

In: 3408.867 $\pm$ 6073.261  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 594.239 $\pm$ 5676.141  $\chi^2/\text{NDF}$ : 1.7/1

asym\_atl\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4918.319+/-4.294  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4292.929+/-11.285  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4839.206+/-4.014  $\chi^2/\text{NDF}$ : 2682.8/1

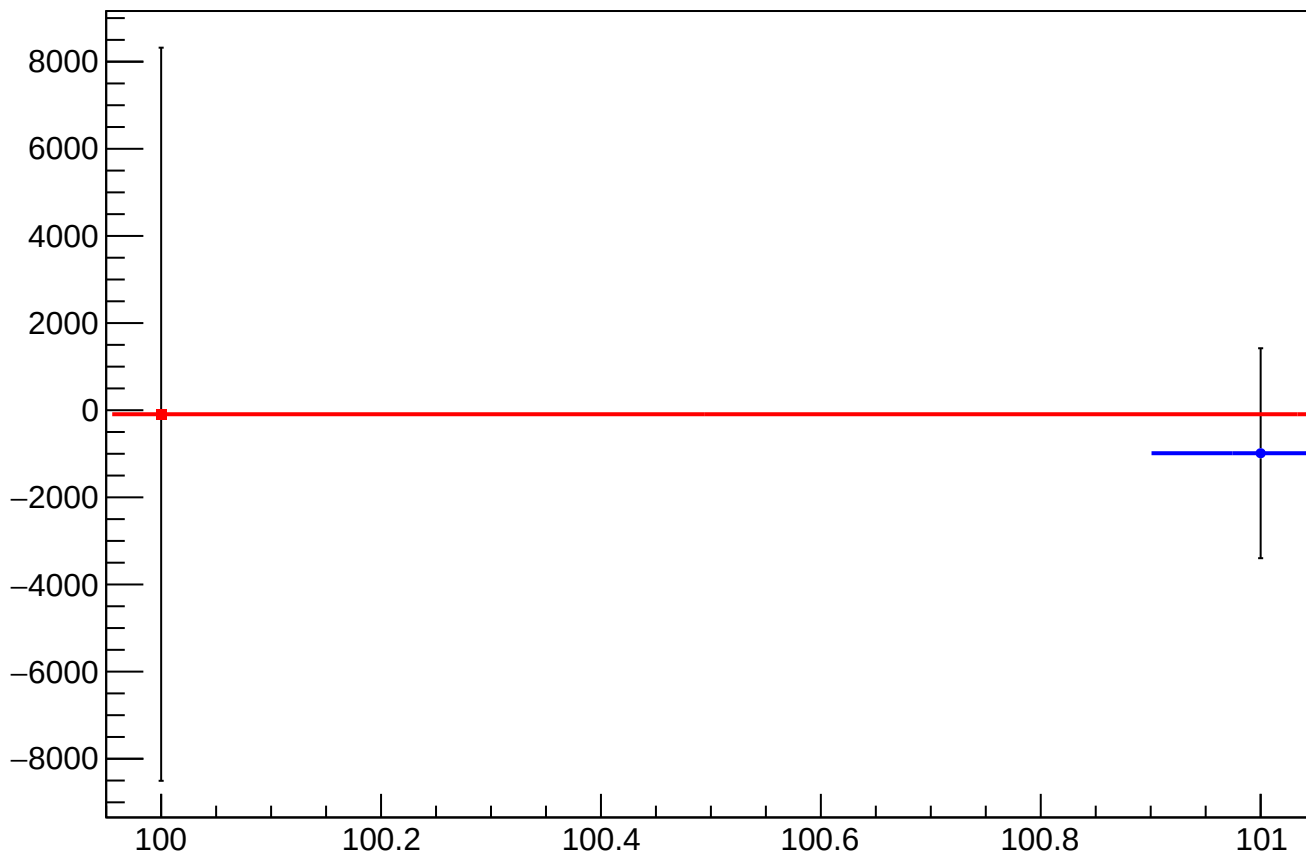
In: 4918.319+/-4.294  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4839.206+/-4.014  $\chi^2/\text{NDF}$ : 2682.8/1



eigen\_cor\_asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: -987.253+/-2409.328  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -92.437+/-8413.585  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

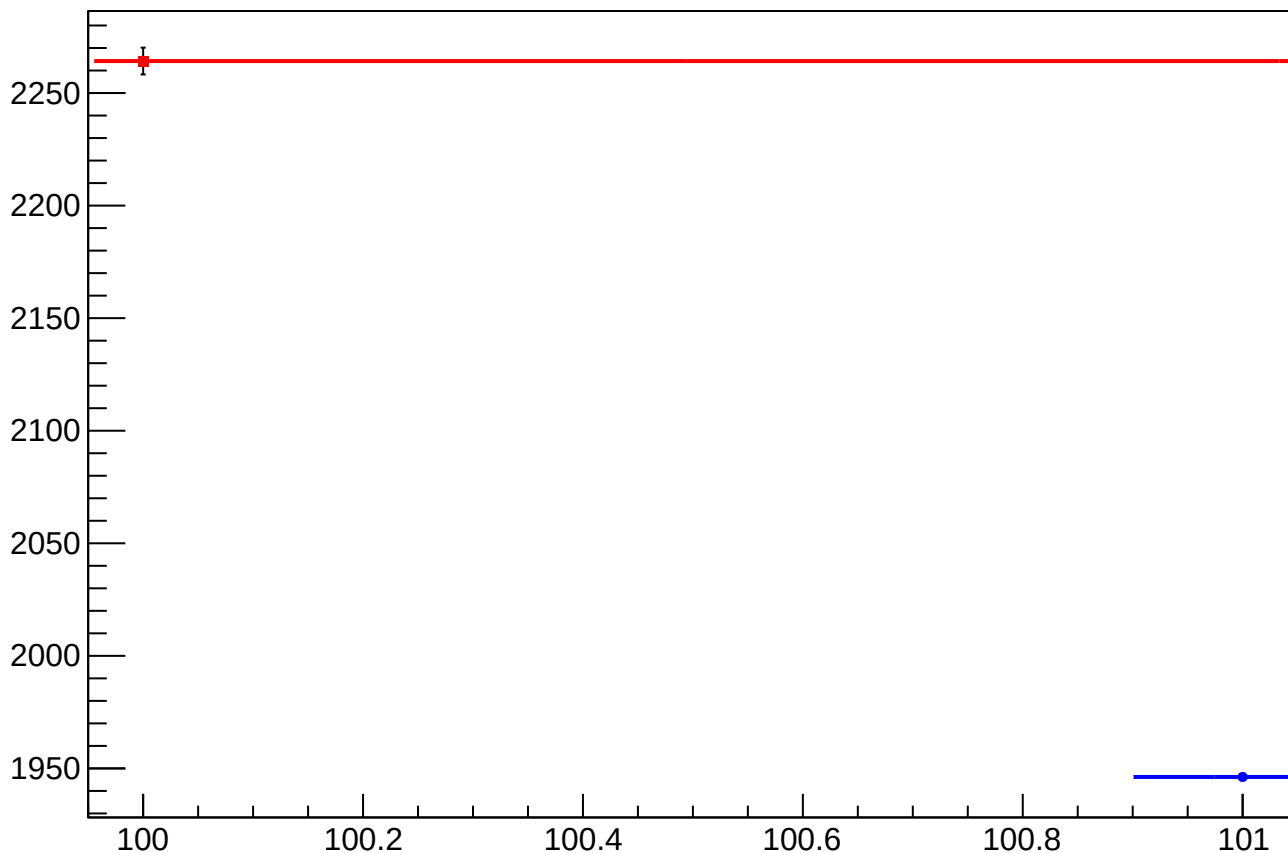
Right: -919.437+/-2316.230  $\chi^2/\text{NDF}$ : 0.0/1

In: -987.253+/-2409.328  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -919.437+/-2316.230  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 1946.206+/-1.704  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2264.198+/-5.949  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

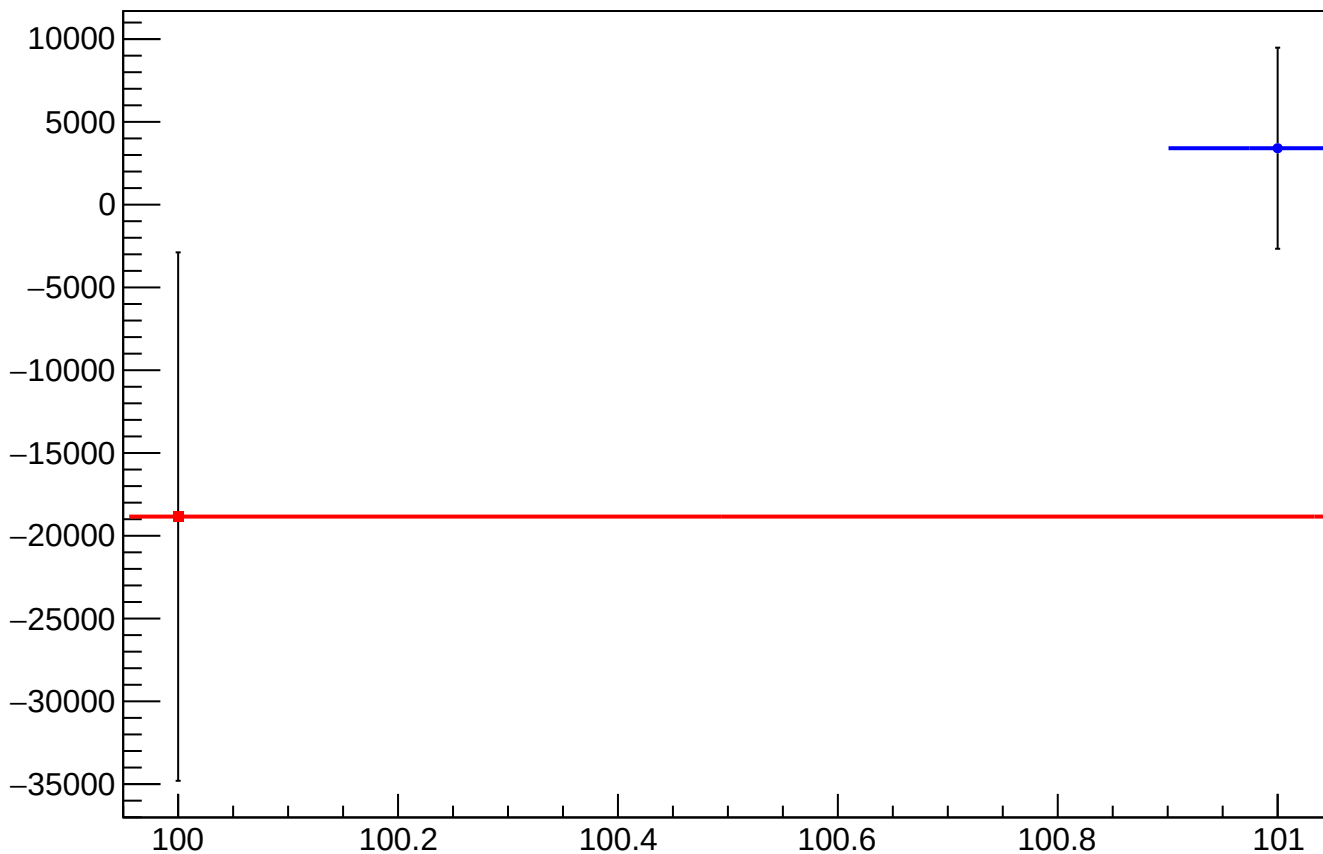
Right: 1970.306+/-1.638  $\chi^2/\text{NDF}$ : 2640.4/1

In: 1946.206+/-1.704  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1970.306+/-1.638  $\chi^2/\text{NDF}$ : 2640.4/1

asym\_atl\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 3408.867+/-6073.261  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -18410.012+/-15959.031  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

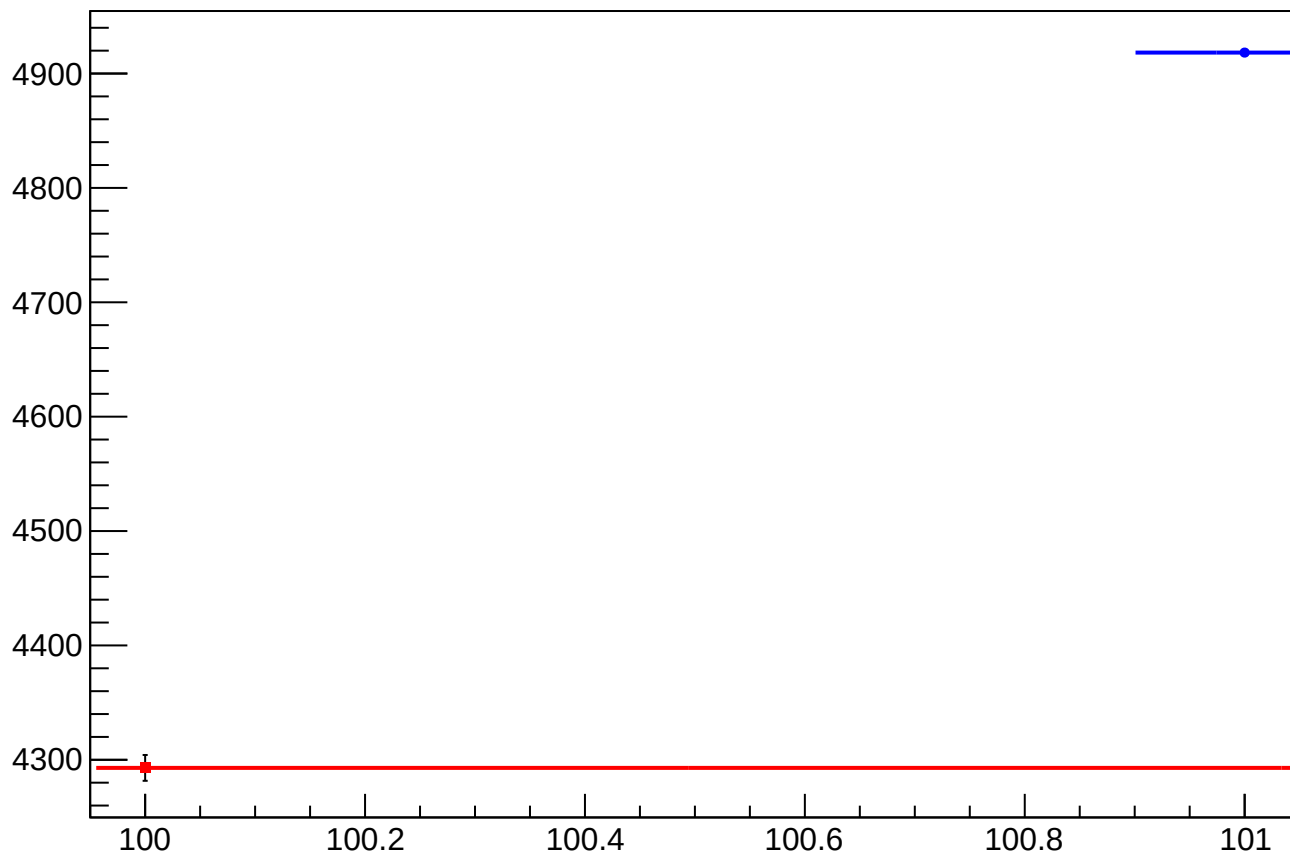
Right: 594.239+/-5676.141  $\chi^2$ /NDF: 1.7/1

In: 3408.867+/-6073.261  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 594.239+/-5676.141  $\chi^2$ /NDF: 1.7/1

asym\_atl\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4918.319+/-4.294  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4292.929+/-11.285  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

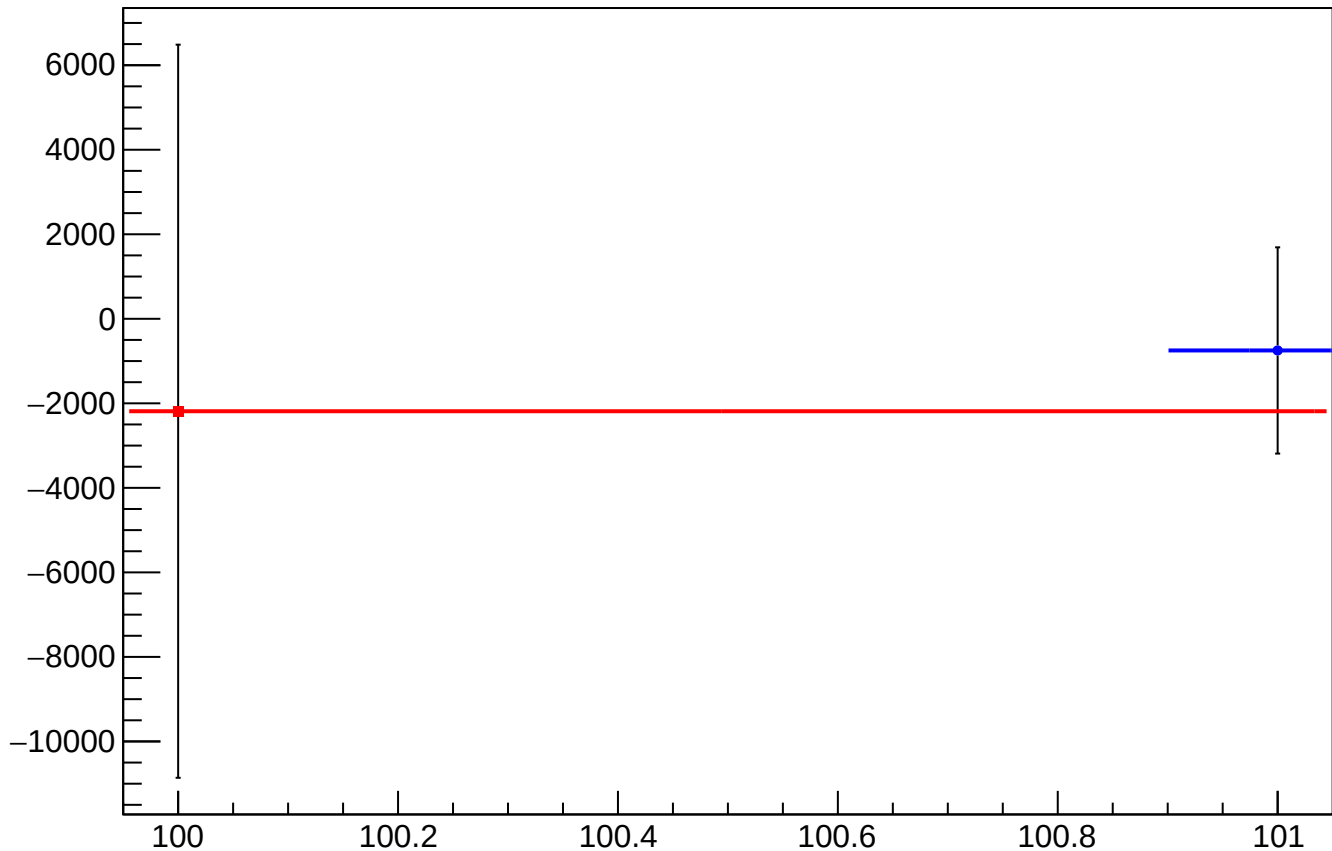
Right: 4839.206+/-4.014  $\chi^2/\text{NDF}$ : 2682.8/1

In: 4918.319+/-4.294  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4839.206+/-4.014  $\chi^2/\text{NDF}$ : 2682.8/1

# dit\_asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: -748.953+/-2439.928  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2187.185+/-8673.239  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

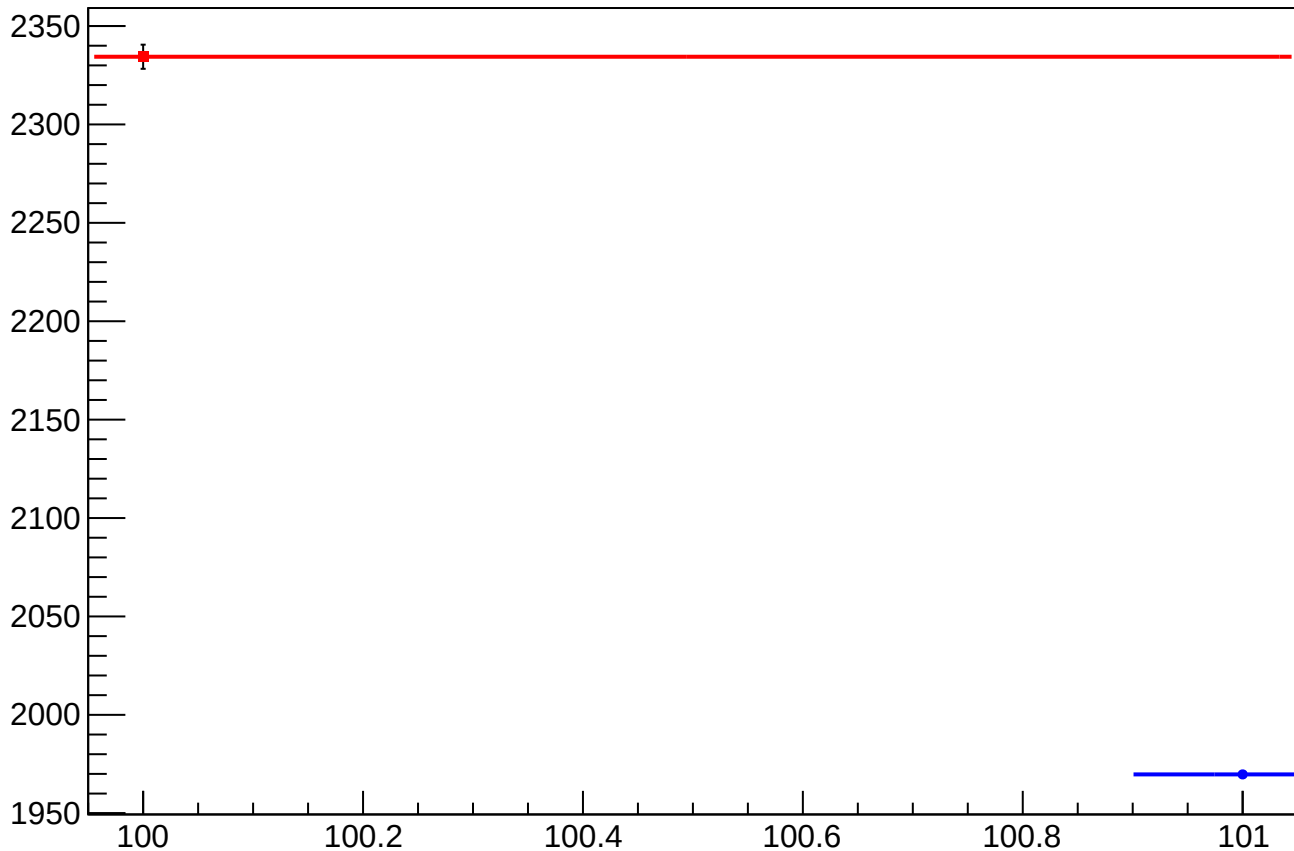
Right: -854.426+/-2348.758  $\chi^2/\text{NDF}$ : 0.0/1

In: -748.953+/-2439.928  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -854.426+/-2348.758  $\chi^2/\text{NDF}$ : 0.0/1

# dit\_asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 1969.739 $\pm$ 1.725  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2334.396 $\pm$ 6.133  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

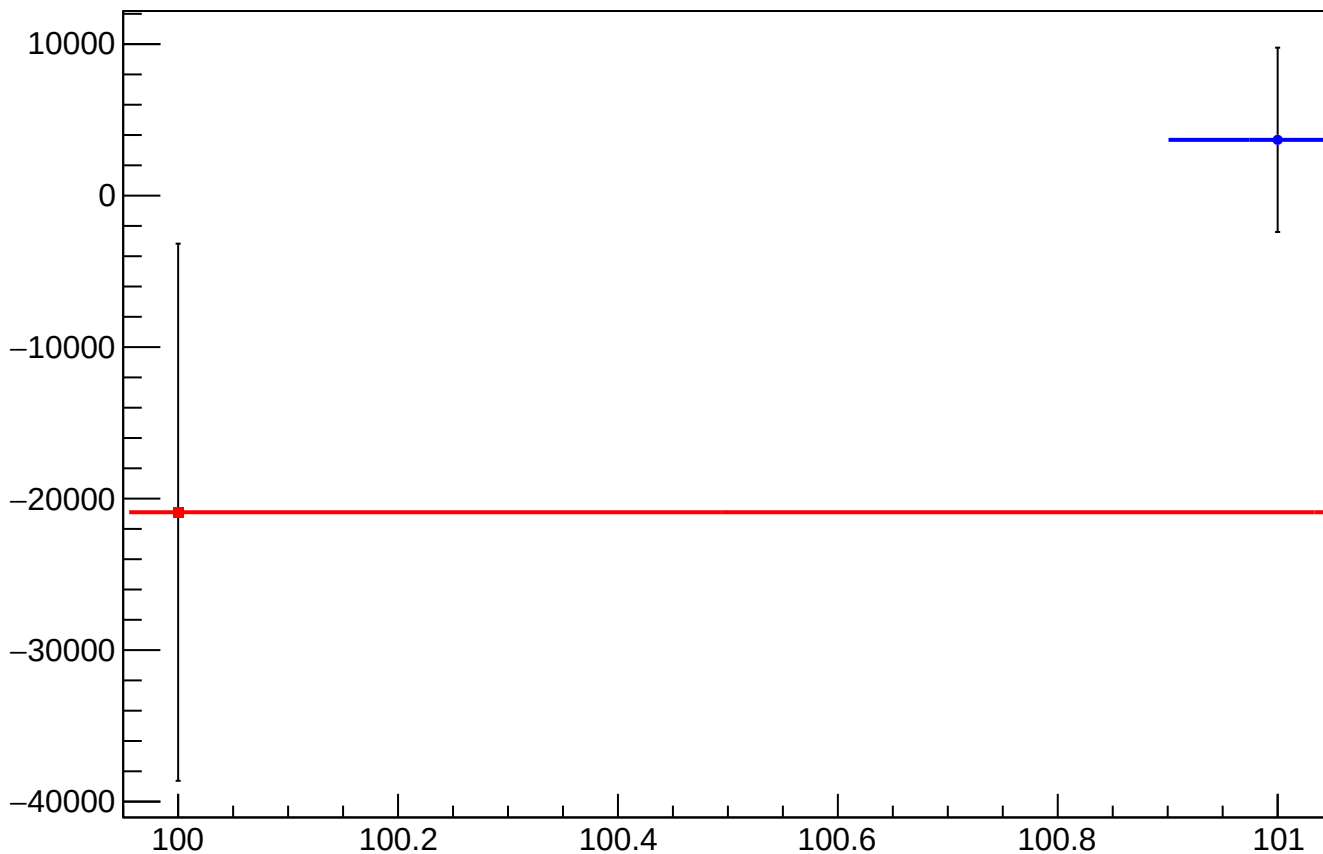
Right: 1996.482 $\pm$ 1.661  $\chi^2/\text{NDF}$ : 3276.1/1

In: 1969.739 $\pm$ 1.725  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1996.482 $\pm$ 1.661  $\chi^2/\text{NDF}$ : 3276.1/1

asym\_atl\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 3681.895+/-6084.316  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20899.185+/-17727.938  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

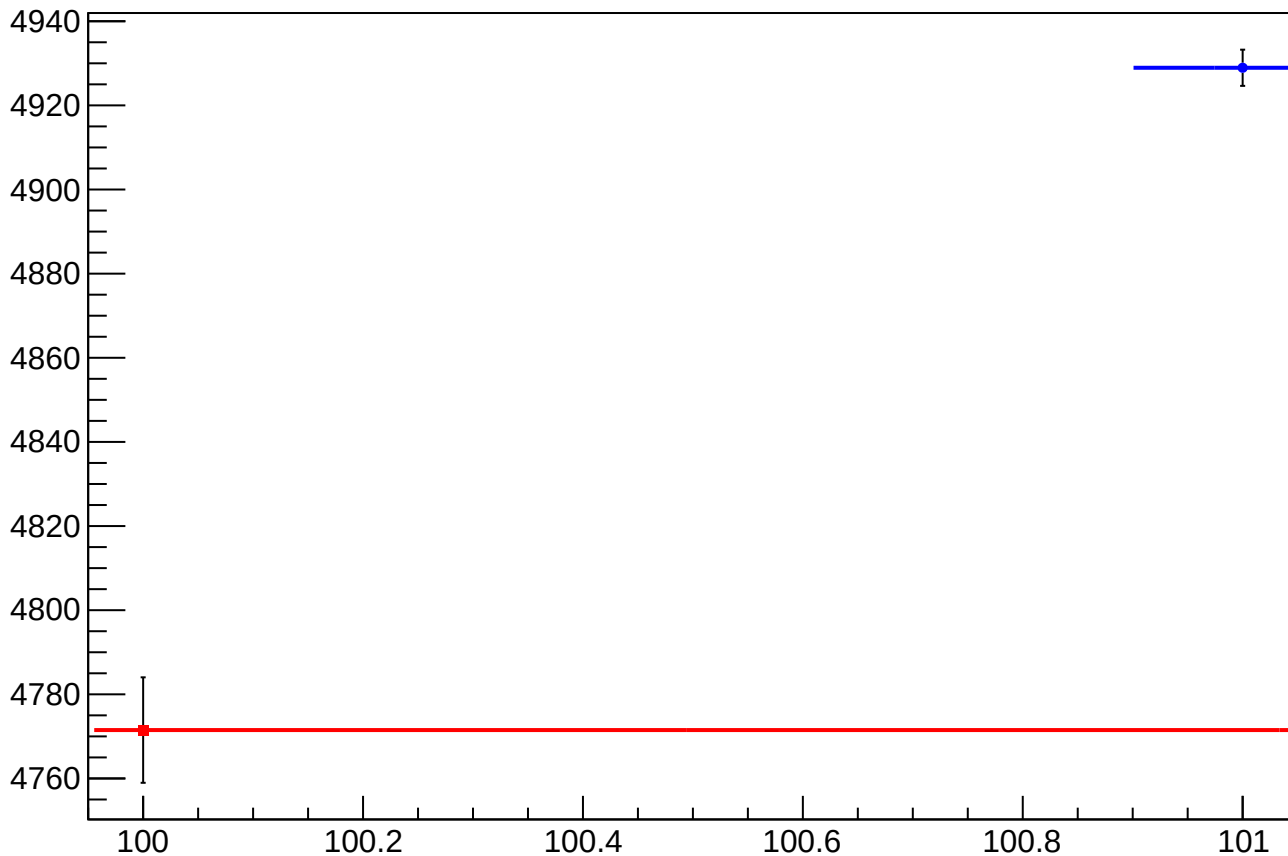
Right: 1091.607+/-5754.820  $\chi^2/\text{NDF}$ : 1.7/1

In: 3681.895+/-6084.316  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1091.607+/-5754.820  $\chi^2/\text{NDF}$ : 1.7/1

asym\_atl\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4928.940+/-4.302  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4771.505+/-12.536  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4912.350+/-4.069  $\chi^2/\text{NDF}$ : 141.1/1

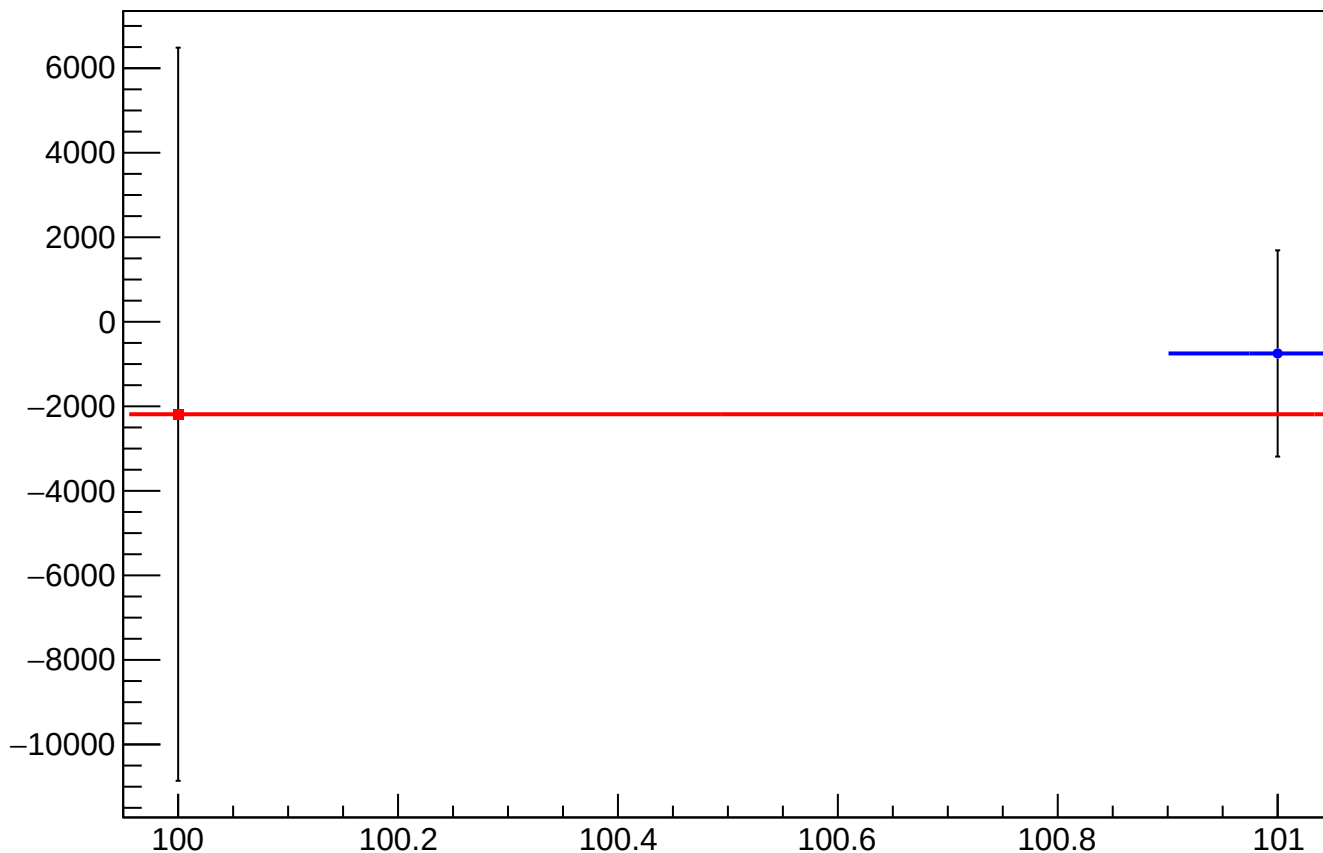
In: 4928.940+/-4.302  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4912.350+/-4.069  $\chi^2/\text{NDF}$ : 141.1/1



eigen\_dit\_asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: -748.954+/-2439.927  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2187.169+/-8673.234  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

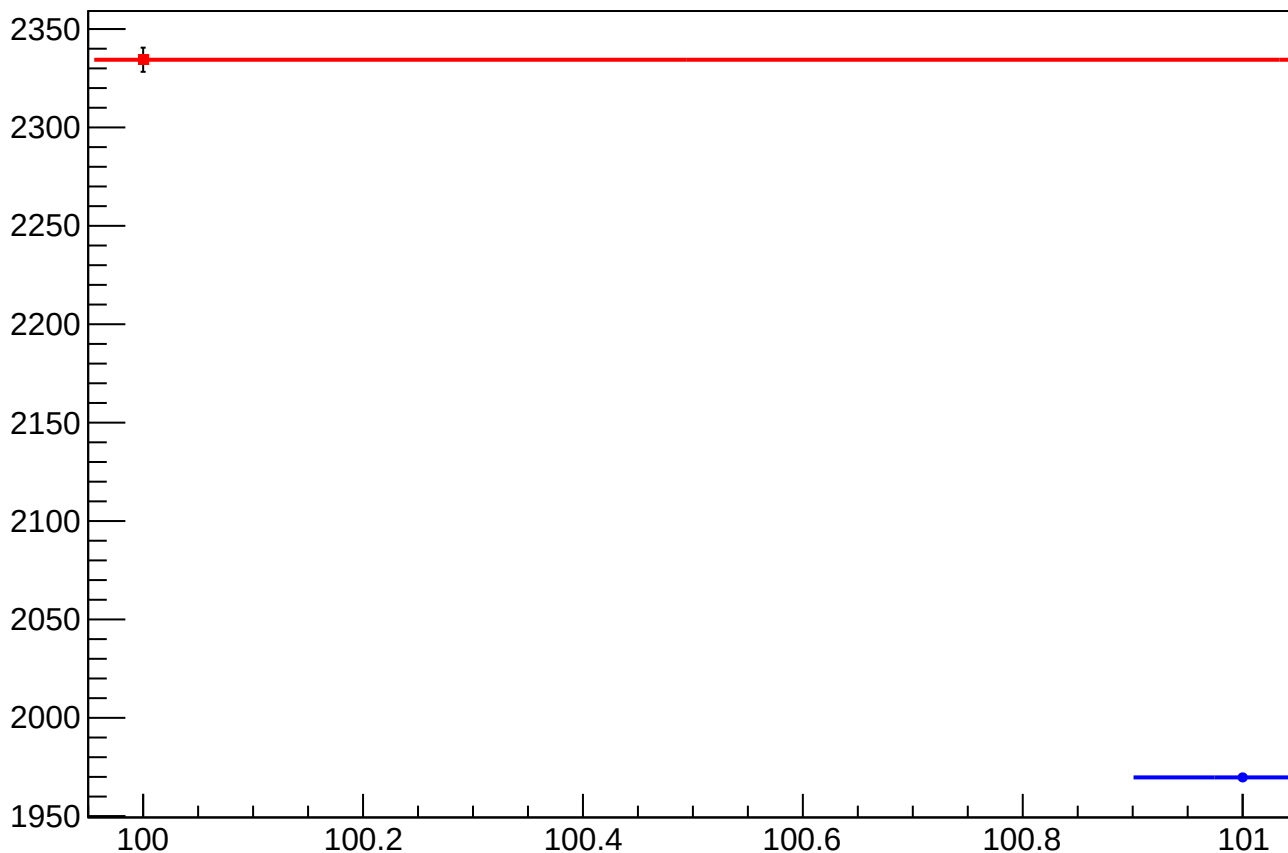
Right: -854.427+/-2348.757  $\chi^2/\text{NDF}$ : 0.0/1

In: -748.954+/-2439.927  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -854.427+/-2348.757  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 1969.739 $\pm$ 1.725  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2334.394 $\pm$ 6.133  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

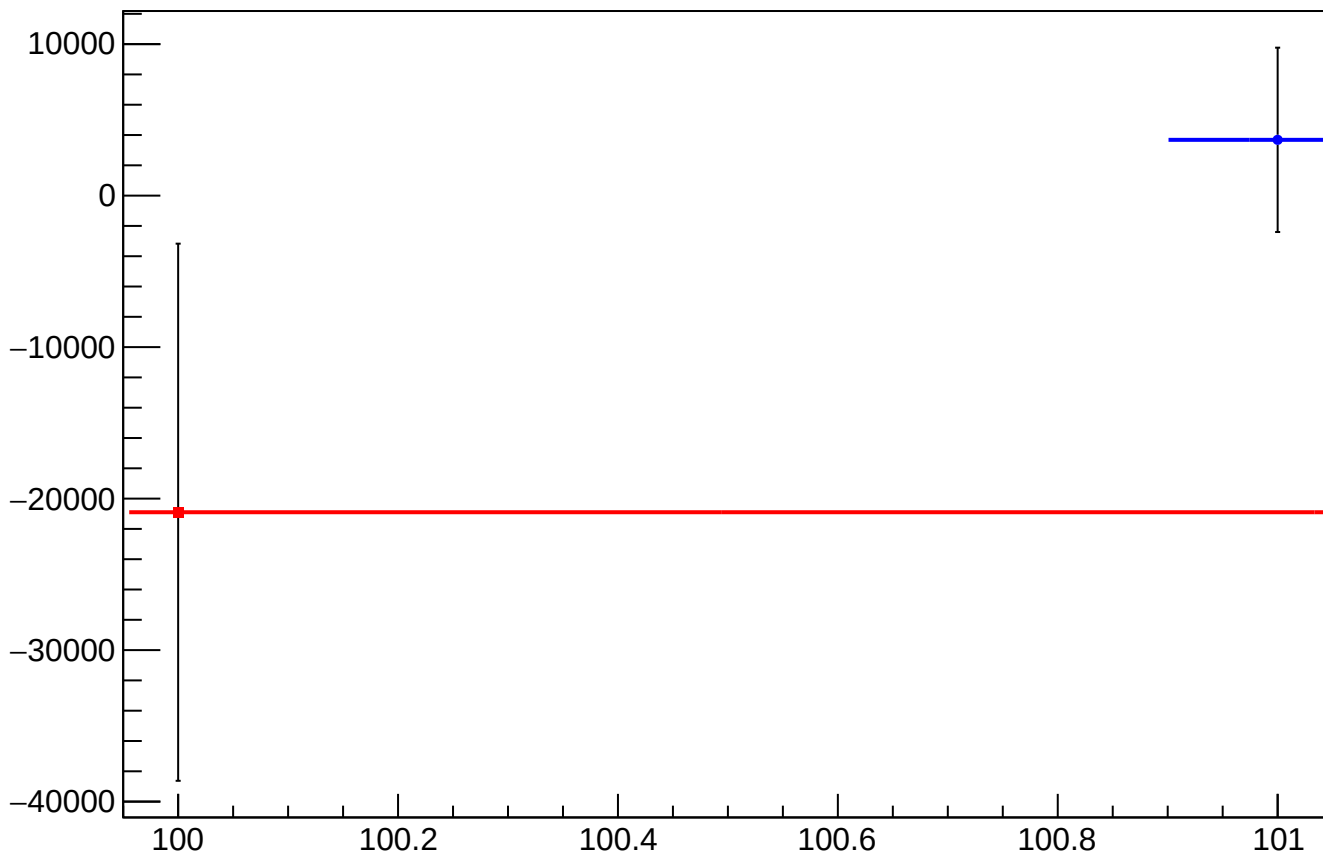
Right: 1996.481 $\pm$ 1.661  $\chi^2$ /NDF: 3276.1/1

In: 1969.739 $\pm$ 1.725  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1996.481 $\pm$ 1.661  $\chi^2$ /NDF: 3276.1/1

asym\_atl\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 3681.891+/-6084.308  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20899.164+/-17727.912  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

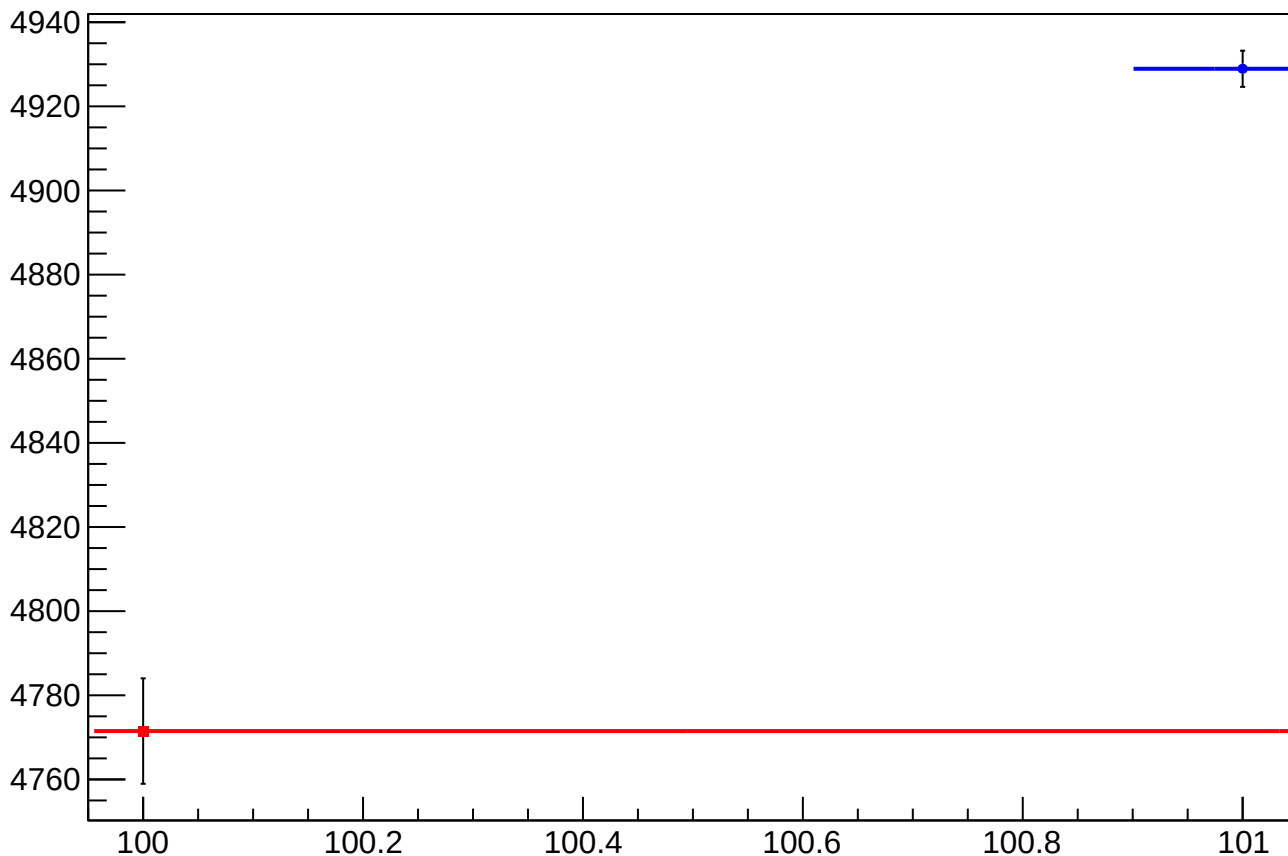
Right: 1091.606+/-5754.812  $\chi^2/\text{NDF}$ : 1.7/1

In: 3681.891+/-6084.308  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1091.606+/-5754.812  $\chi^2/\text{NDF}$ : 1.7/1

asym\_atl\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4928.933+/-4.302  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4771.498+/-12.536  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

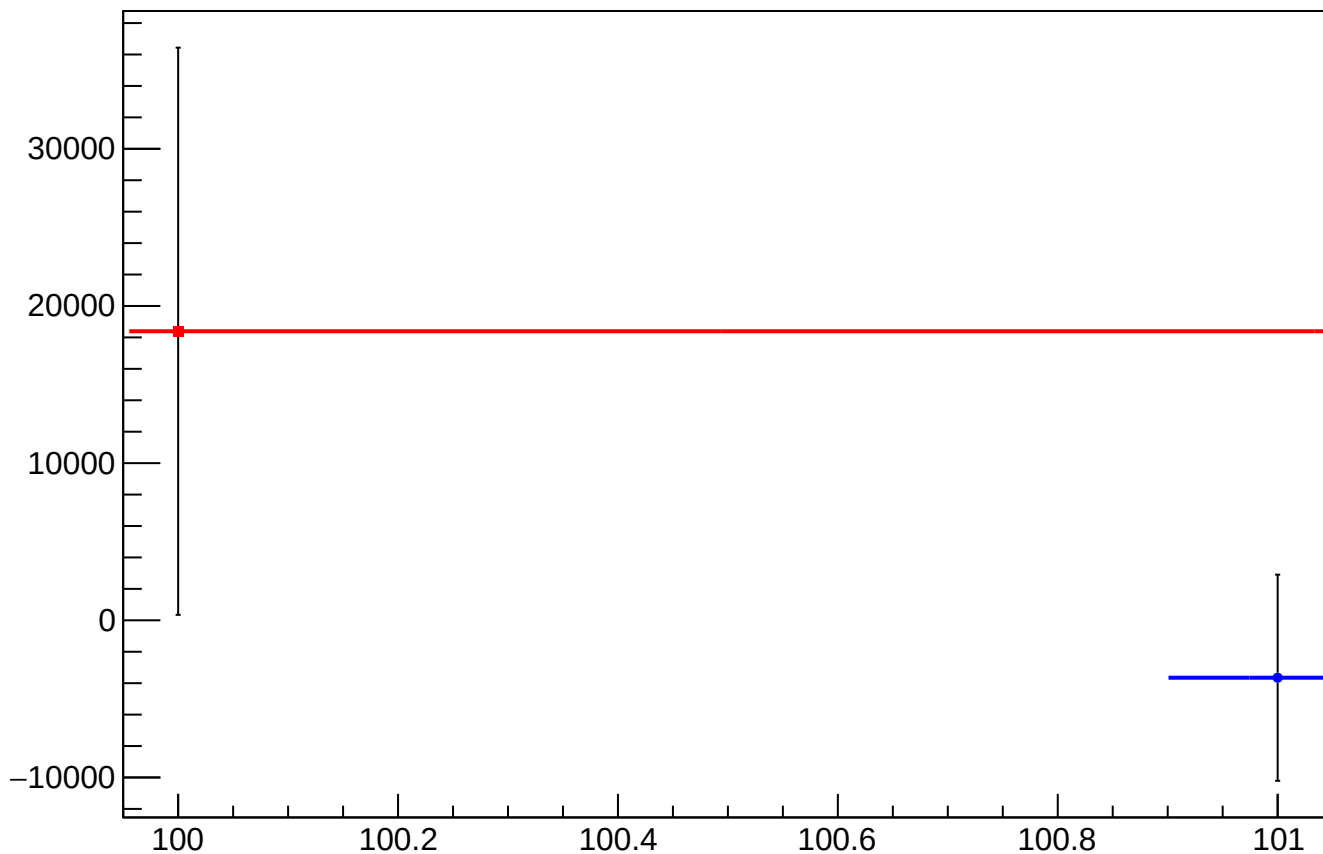
Right: 4912.343+/-4.069  $\chi^2/\text{NDF}$ : 141.1/1

In: 4928.933+/-4.302  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4912.343+/-4.069  $\chi^2/\text{NDF}$ : 141.1/1

# asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: -3652.943+/-6558.317  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18391.442+/-18043.505  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

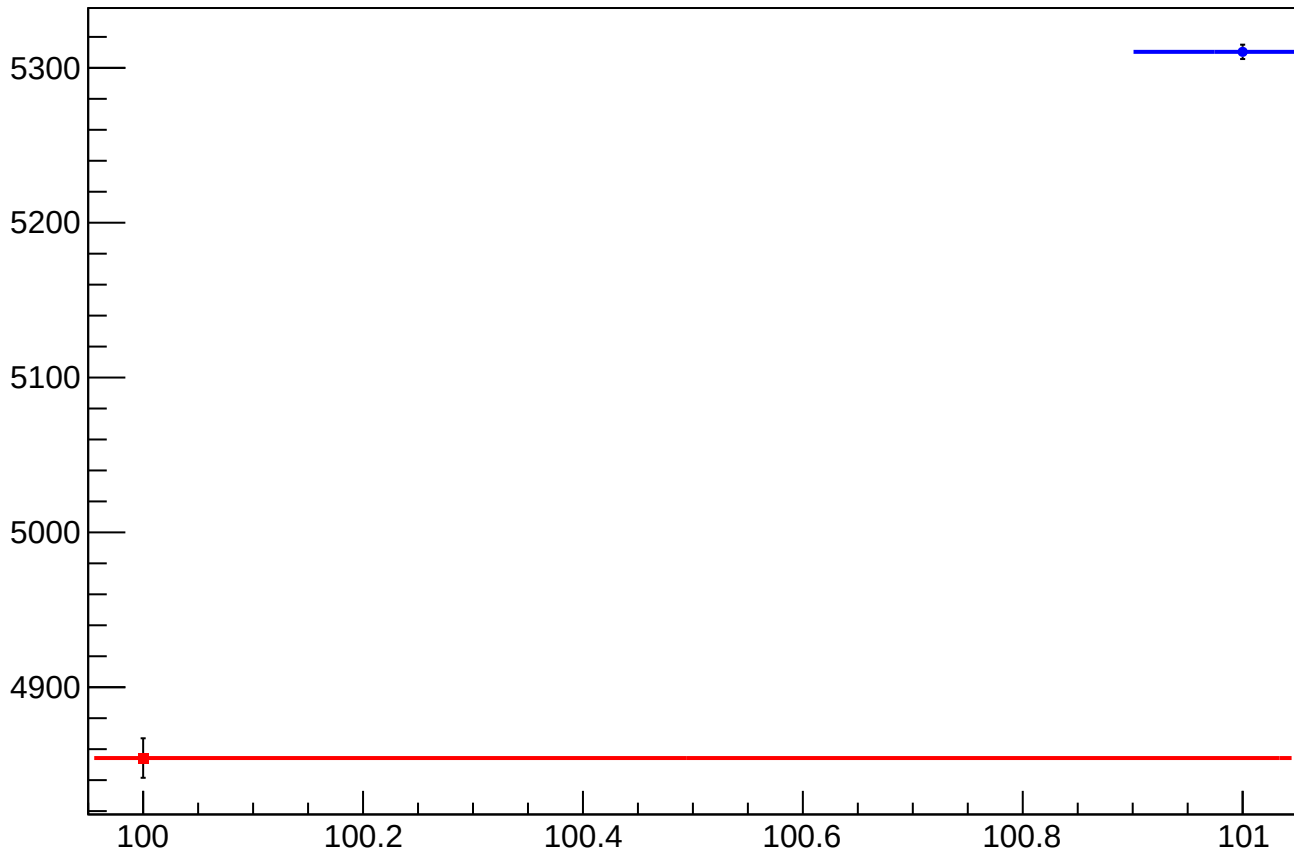
Right: -1080.466+/-6163.788  $\chi^2/\text{NDF}$ : 1.3/1

In: -3652.943+/-6558.317  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1080.466+/-6163.788  $\chi^2/\text{NDF}$ : 1.3/1

# asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 5310.344+/-4.637  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4854.263+/-12.759  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

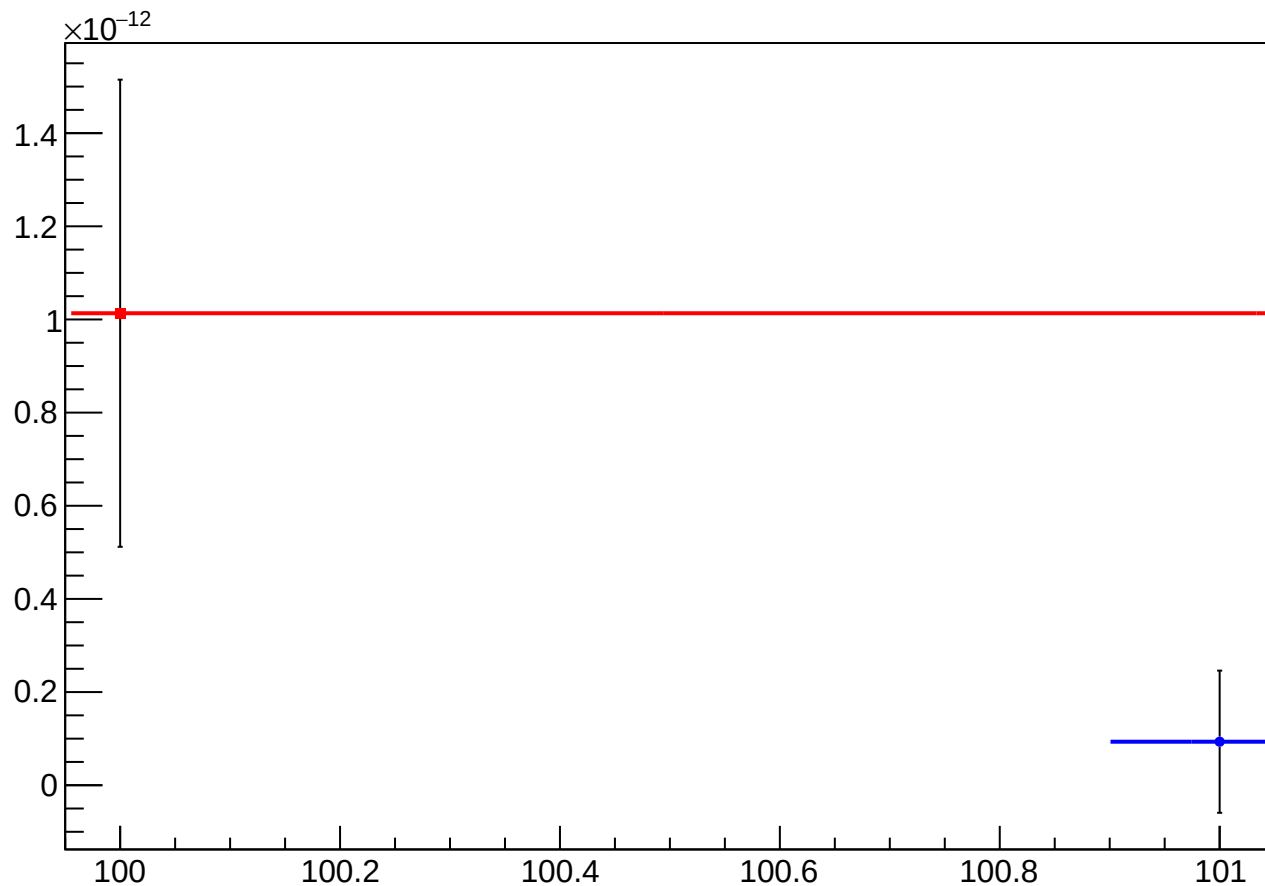
Right: 5257.122+/-4.358  $\chi^2/\text{NDF}$ : 1128.7/1

In: 5310.344+/-4.637  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5257.122+/-4.358  $\chi^2/\text{NDF}$ : 1128.7/1

asym\_atl\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

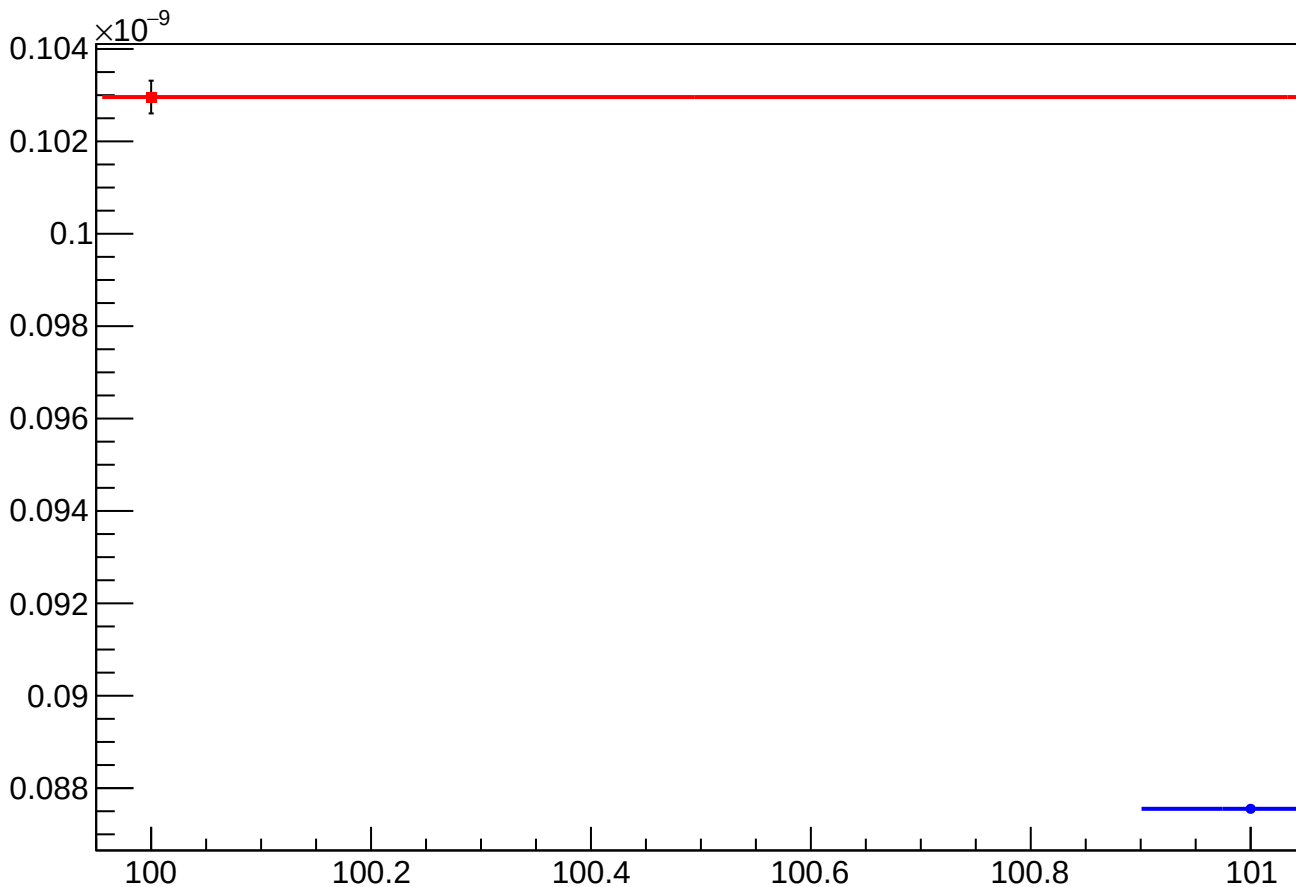
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.1/1

asym\_atl\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.000+/-0.000  $\chi^2$ /NDF: 1727.8/1

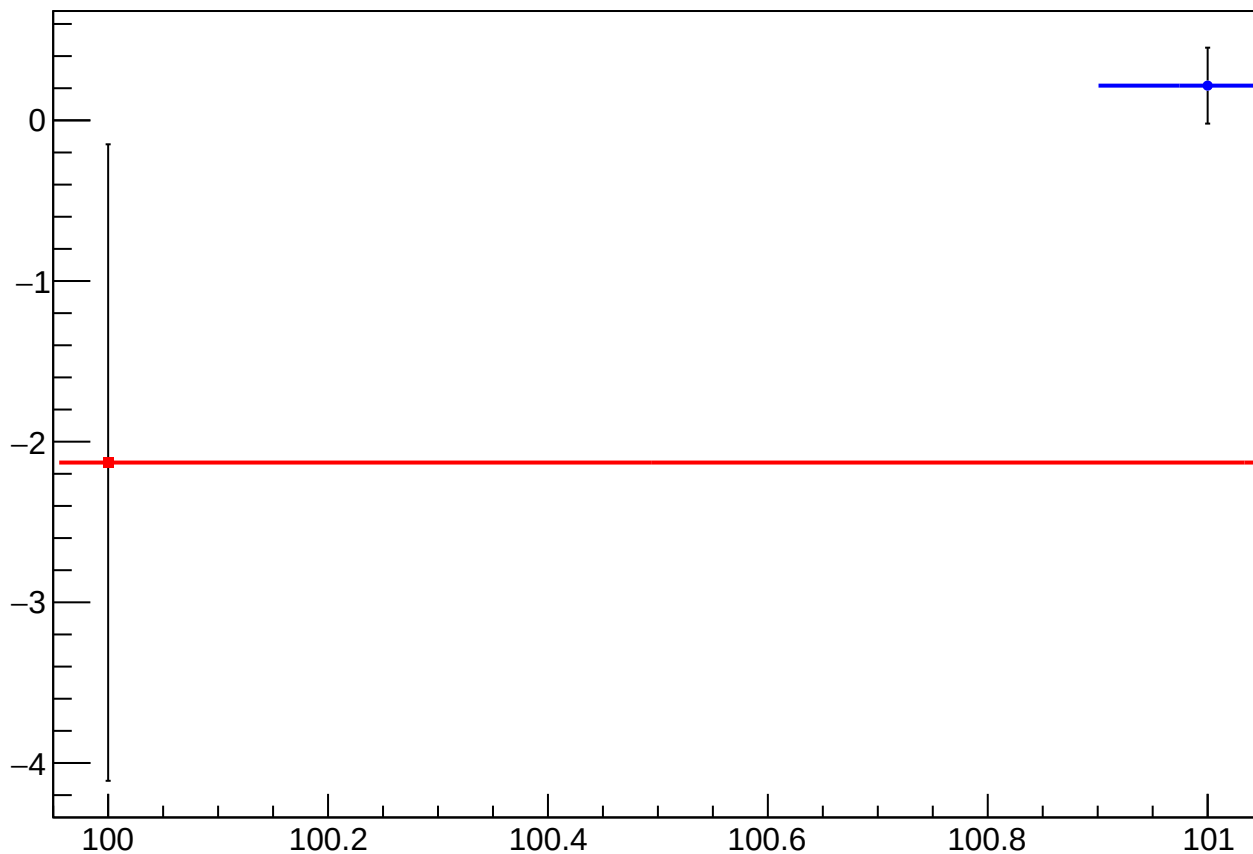
In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 1727.8/1



asym\_atl\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.216 $\pm$ 0.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.130 $\pm$ 1.981  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

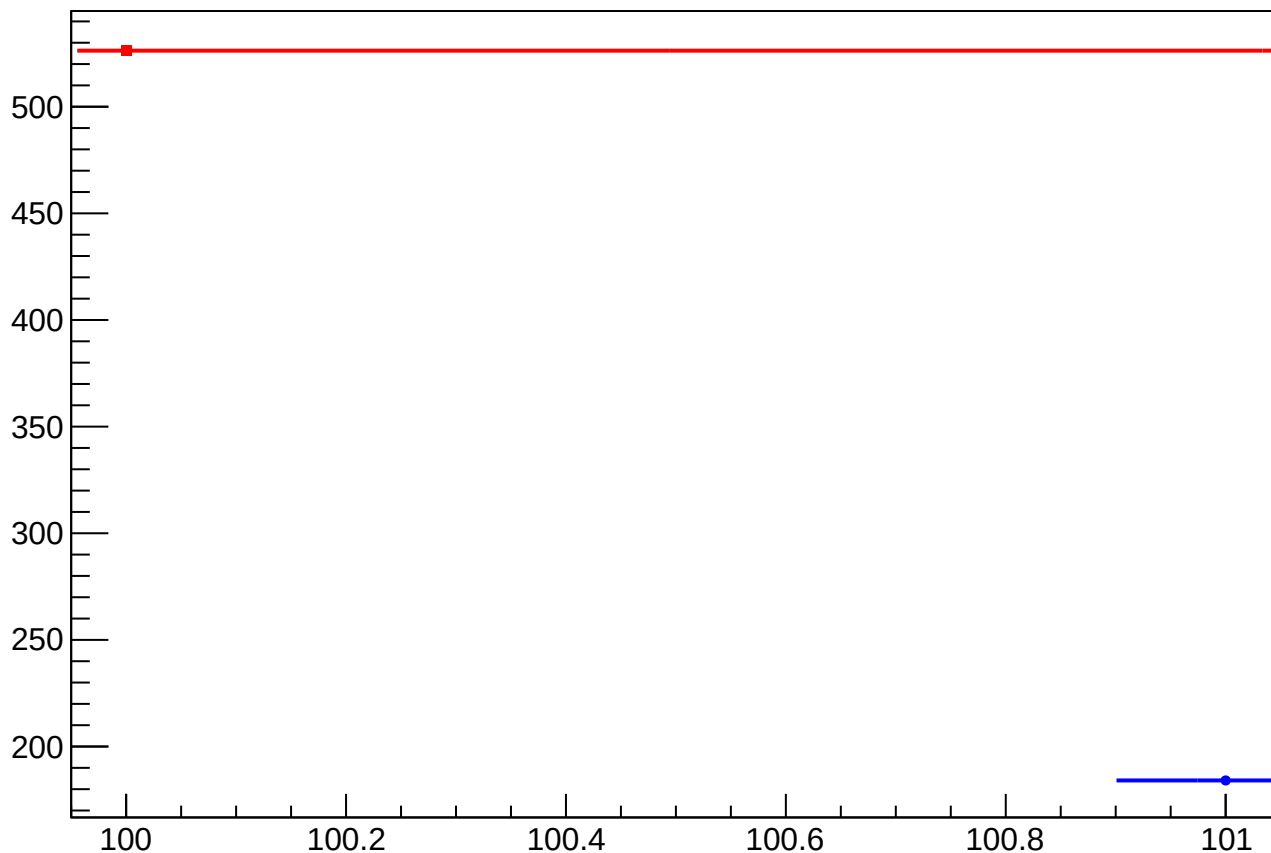
Right: 0.183 $\pm$ 0.235  $\chi^2/\text{NDF}$ : 1.4/1

In: 0.216 $\pm$ 0.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.183 $\pm$ 0.235  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atl\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 184.098 $\pm$ 0.167  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.286 $\pm$ 1.401  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

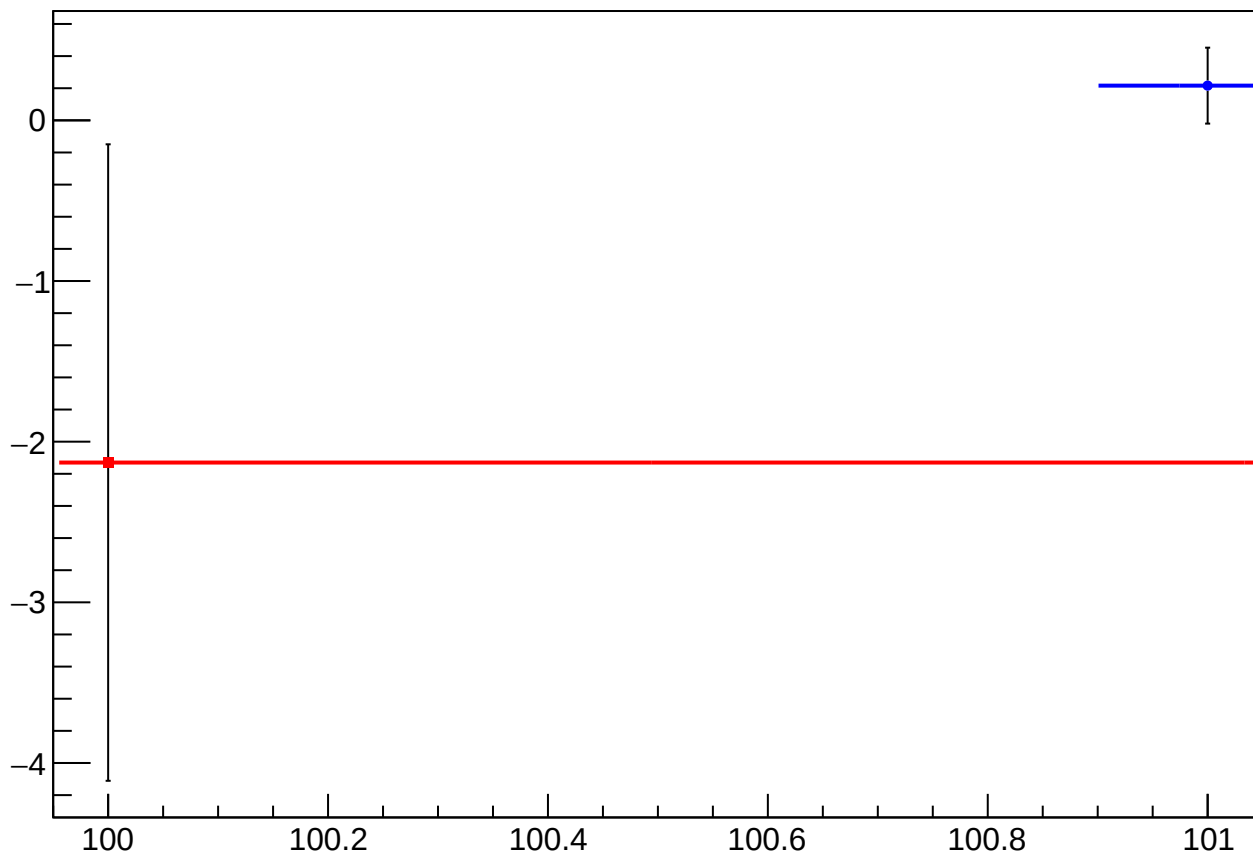
Right: 188.899 $\pm$ 0.166  $\chi^2$ /NDF: 58843.4/1

In: 184.098 $\pm$ 0.167  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 188.899 $\pm$ 0.166  $\chi^2$ /NDF: 58843.4/1

asym\_atl\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.216+/-0.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.130+/-1.981  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

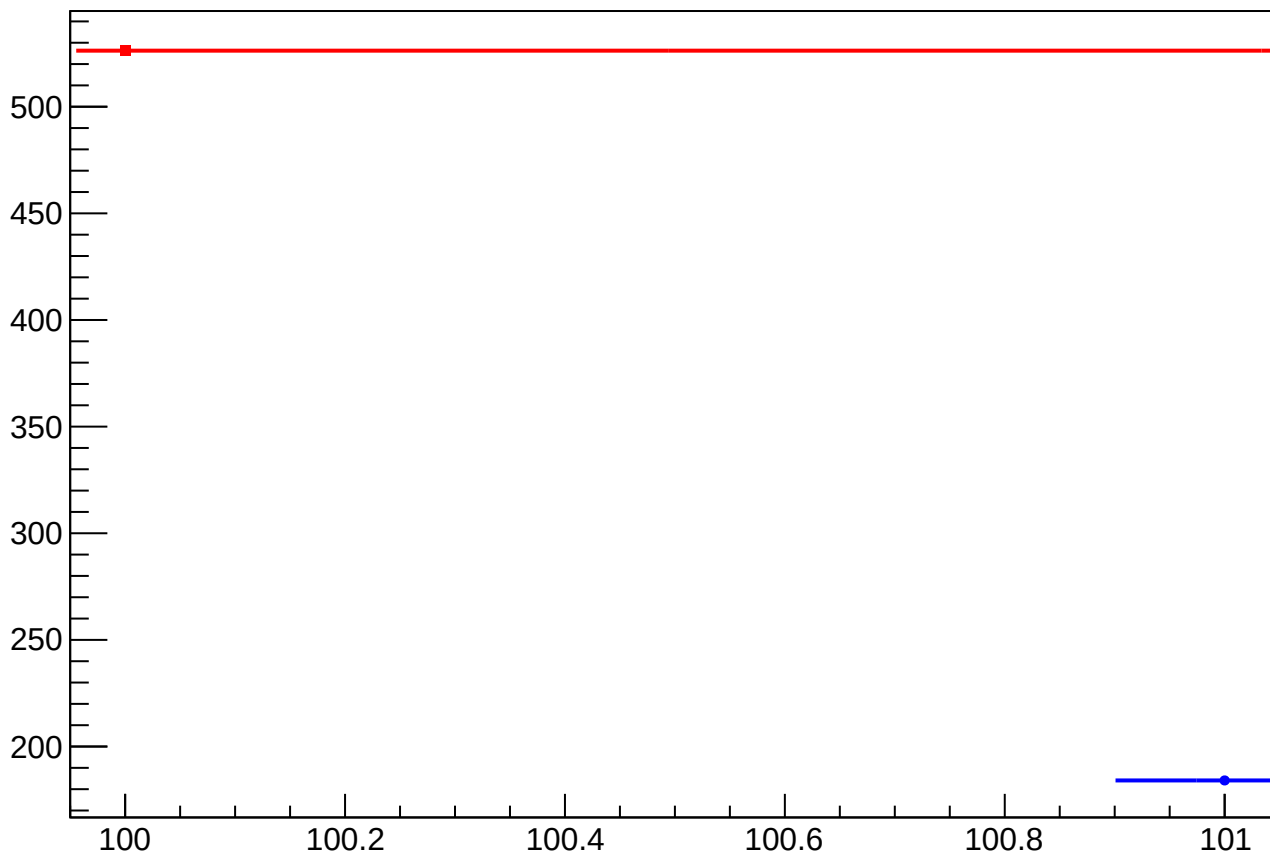
Right: 0.183+/-0.235  $\chi^2/\text{NDF}$ : 1.4/1

In: 0.216+/-0.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.183+/-0.235  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atl\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 184.098 $\pm$ 0.167  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.286 $\pm$ 1.401  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

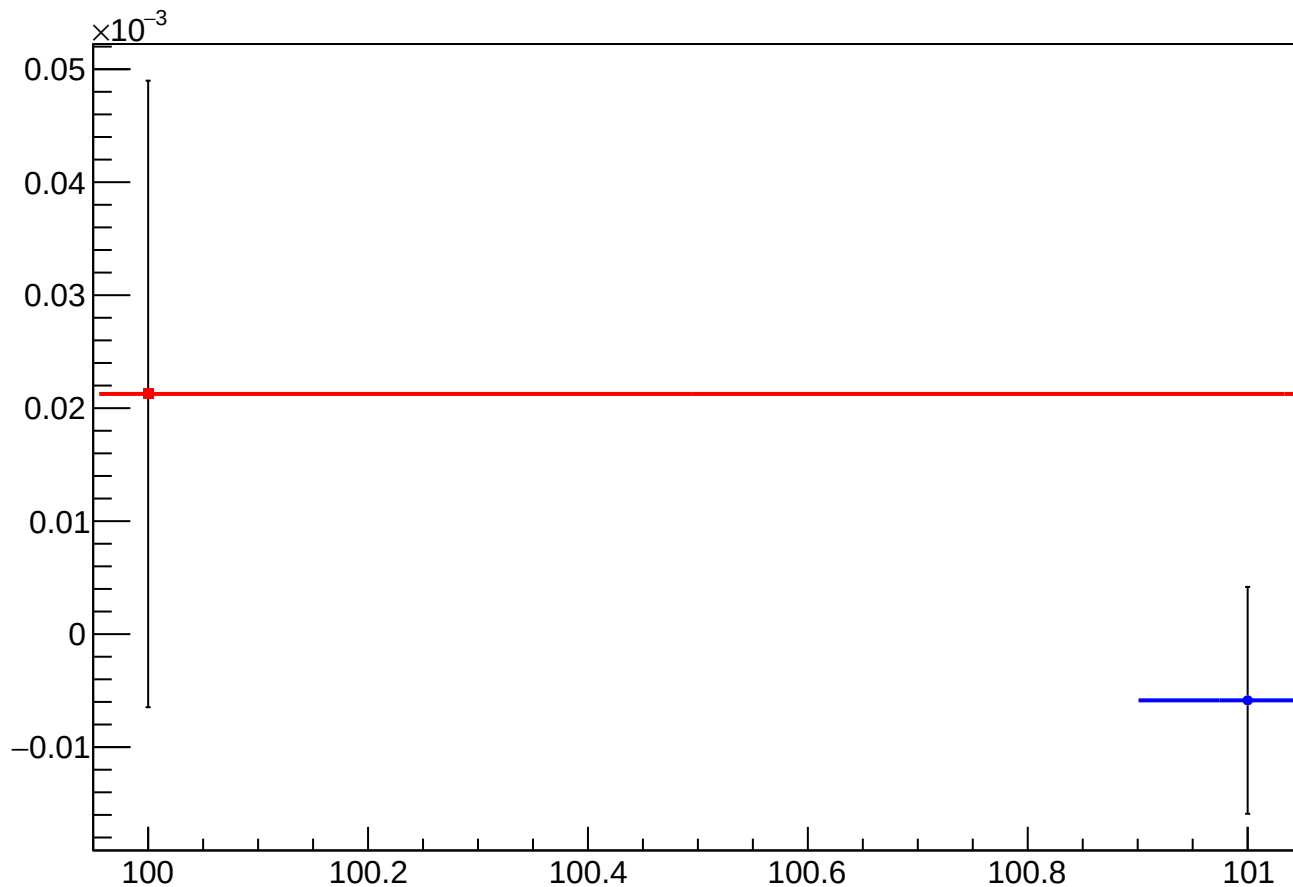
Right: 188.899 $\pm$ 0.166  $\chi^2$ /NDF: 58843.4/1

In: 184.098 $\pm$ 0.167  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 188.899 $\pm$ 0.166  $\chi^2$ /NDF: 58843.4/1

asym\_atl\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

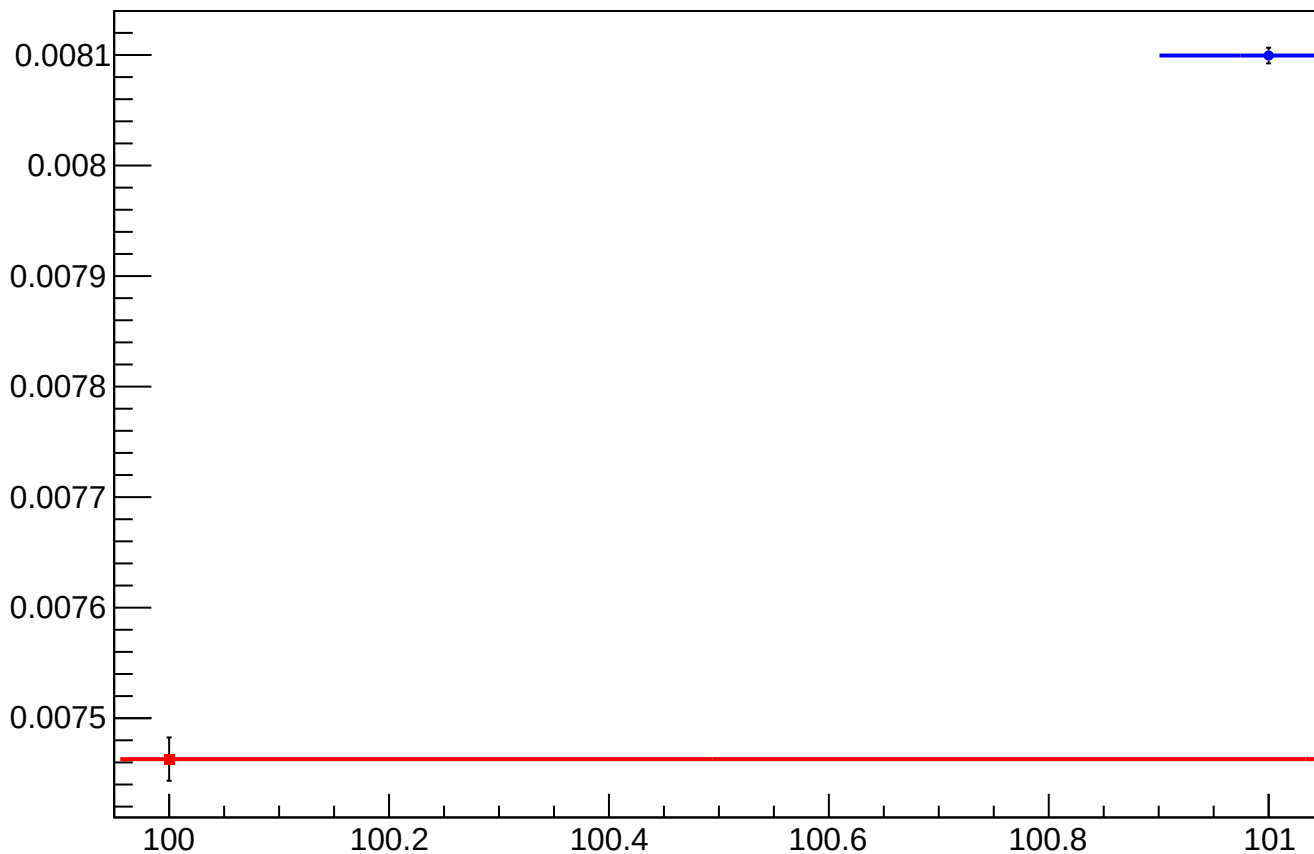
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

asym\_atl\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

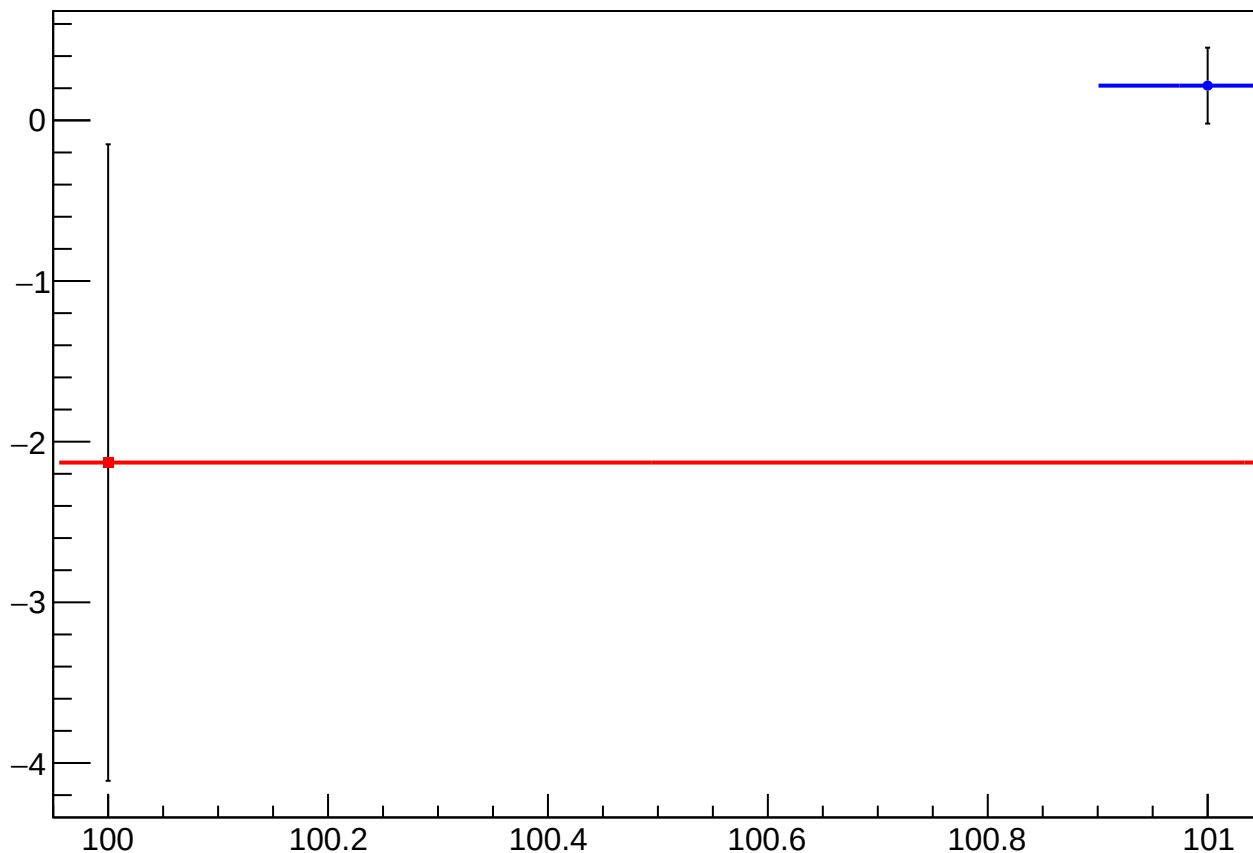
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 931.9/1

In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 931.9/1

asym\_atl\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.216+/-0.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.130+/-1.981  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

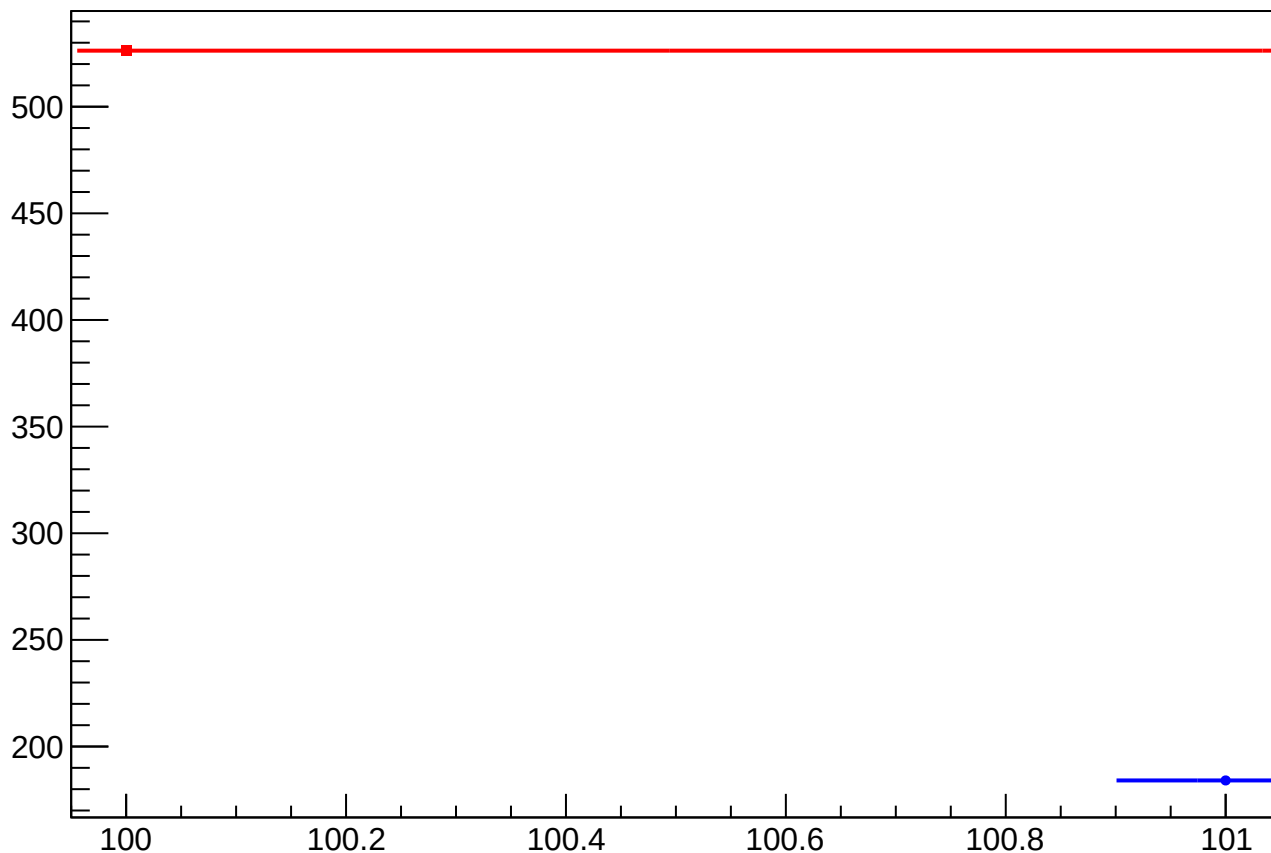
Right: 0.183+/-0.235  $\chi^2/\text{NDF}$ : 1.4/1

In: 0.216+/-0.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.183+/-0.235  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atl\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 184.095 $\pm$ 0.167  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.281 $\pm$ 1.401  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 188.896 $\pm$ 0.166  $\chi^2$ /NDF: 58843.8/1

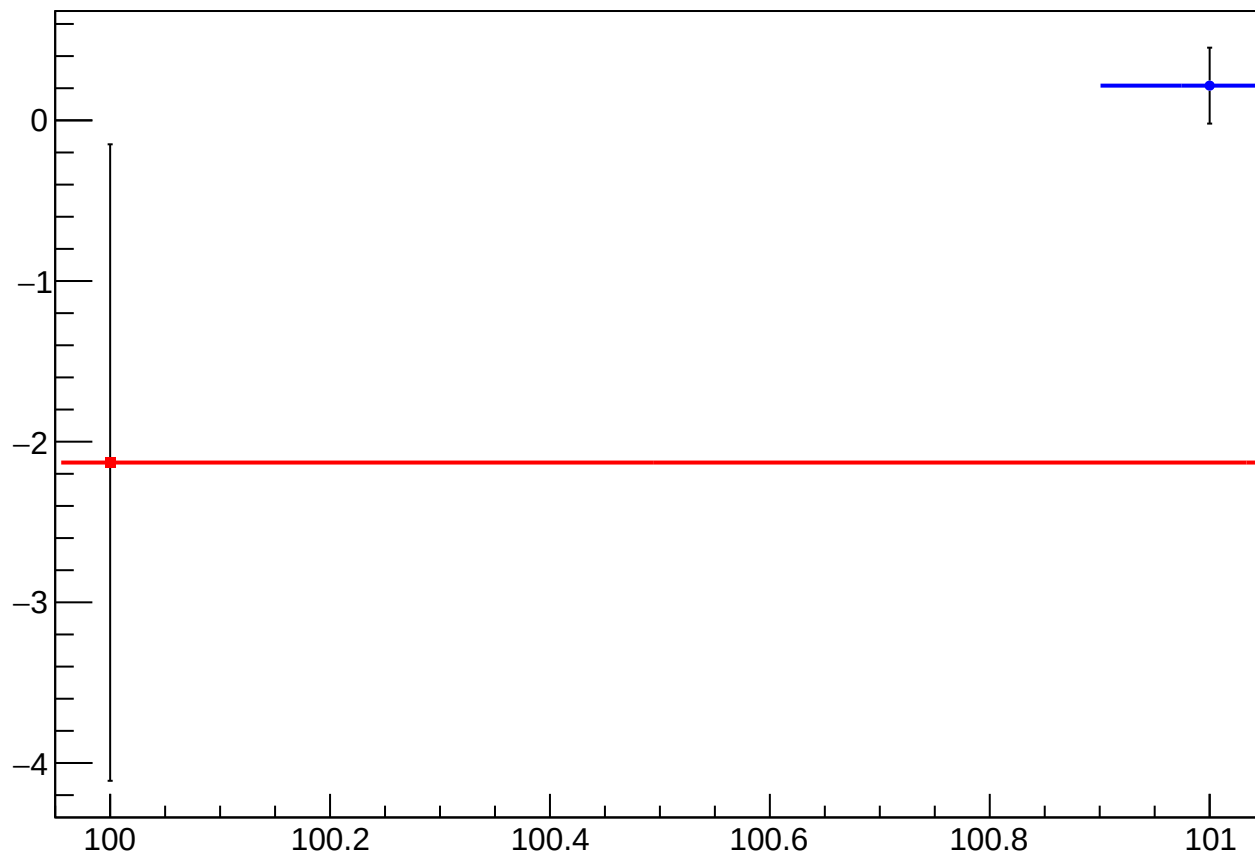
In: 184.095 $\pm$ 0.167  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 188.896 $\pm$ 0.166  $\chi^2$ /NDF: 58843.8/1



asym\_atl\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.216+/-0.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.130+/-1.981  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

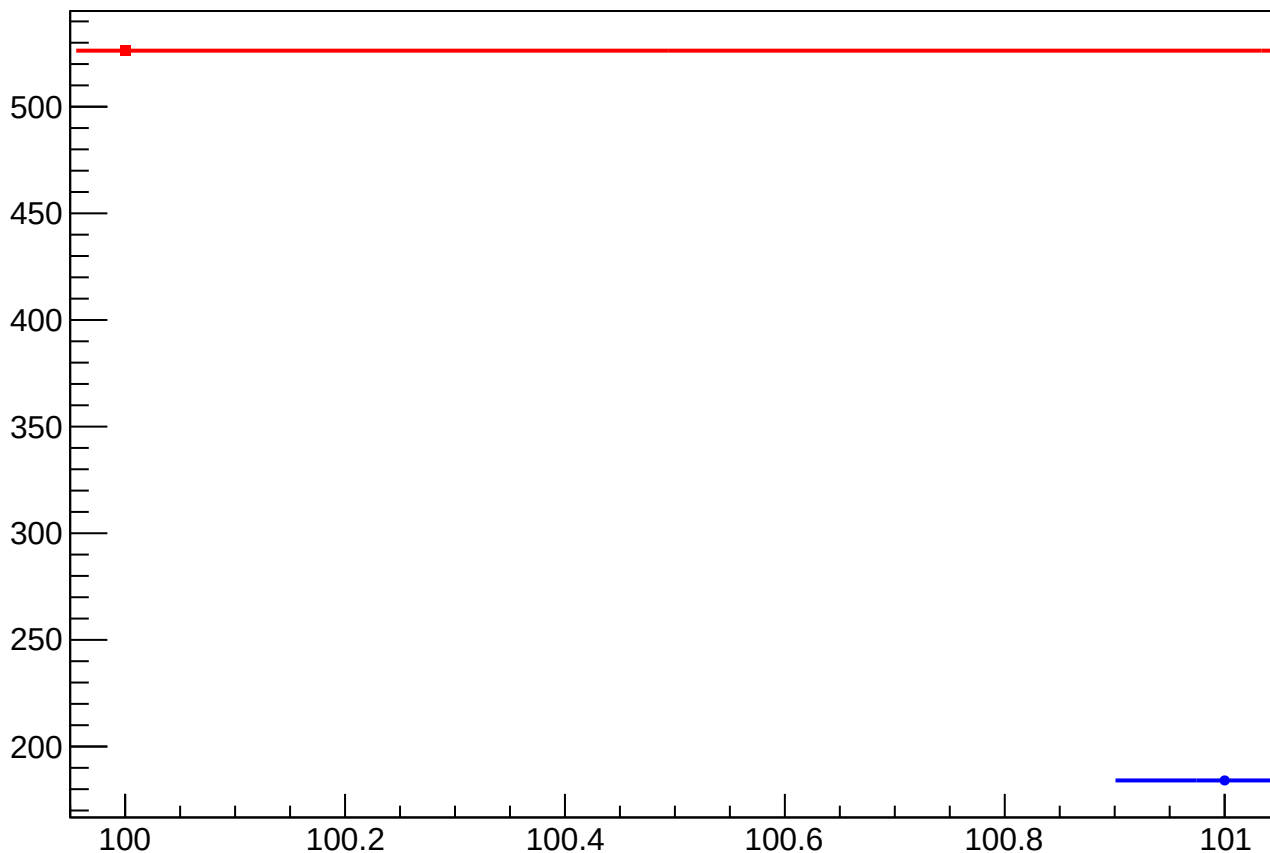
Right: 0.183+/-0.235  $\chi^2/\text{NDF}$ : 1.4/1

In: 0.216+/-0.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.183+/-0.235  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atl\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 184.095 $\pm$ 0.167  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.281 $\pm$ 1.401  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

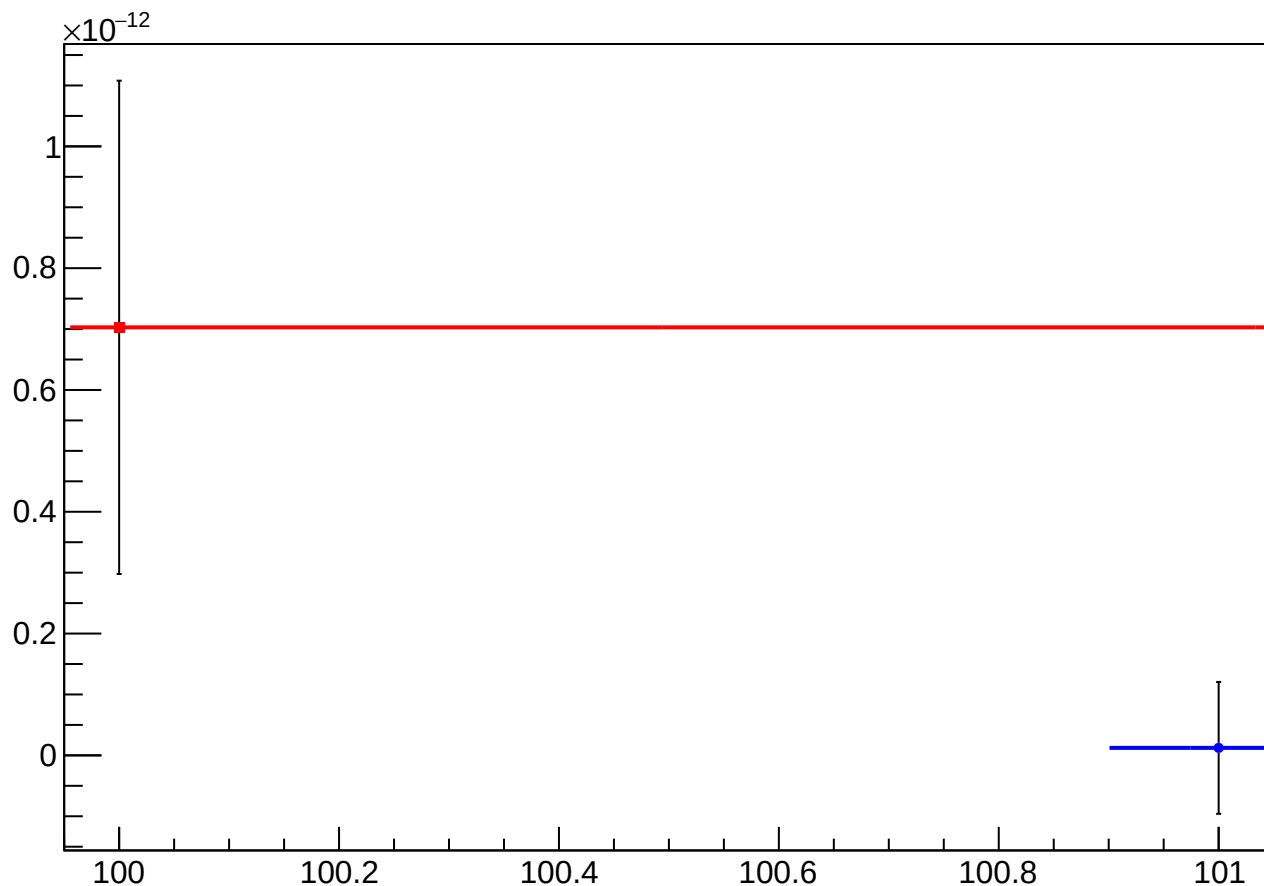
Right: 188.896 $\pm$ 0.166  $\chi^2$ /NDF: 58843.8/1

In: 184.095 $\pm$ 0.167  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 188.896 $\pm$ 0.166  $\chi^2$ /NDF: 58843.8/1

asym\_atl\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

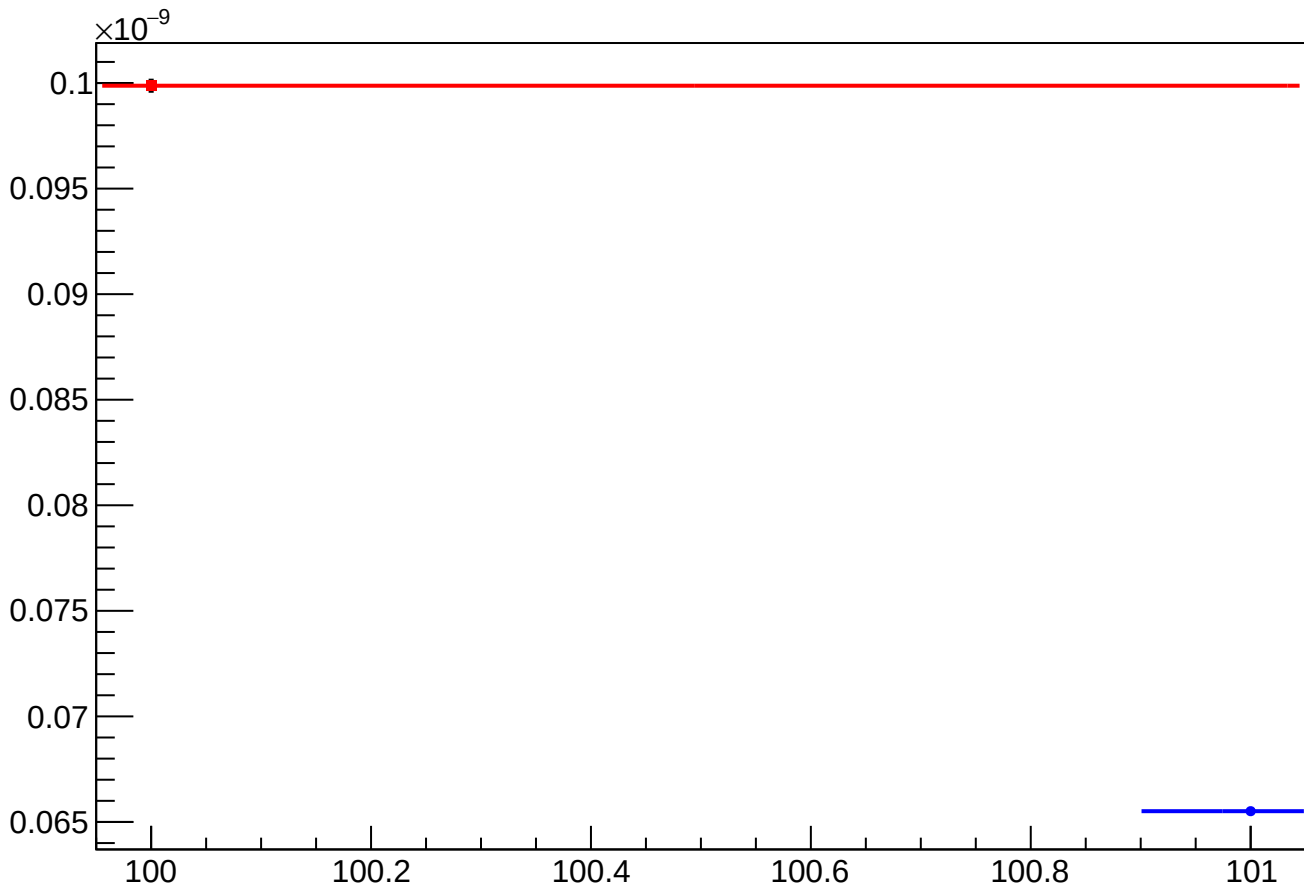
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/1

asym\_atl\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

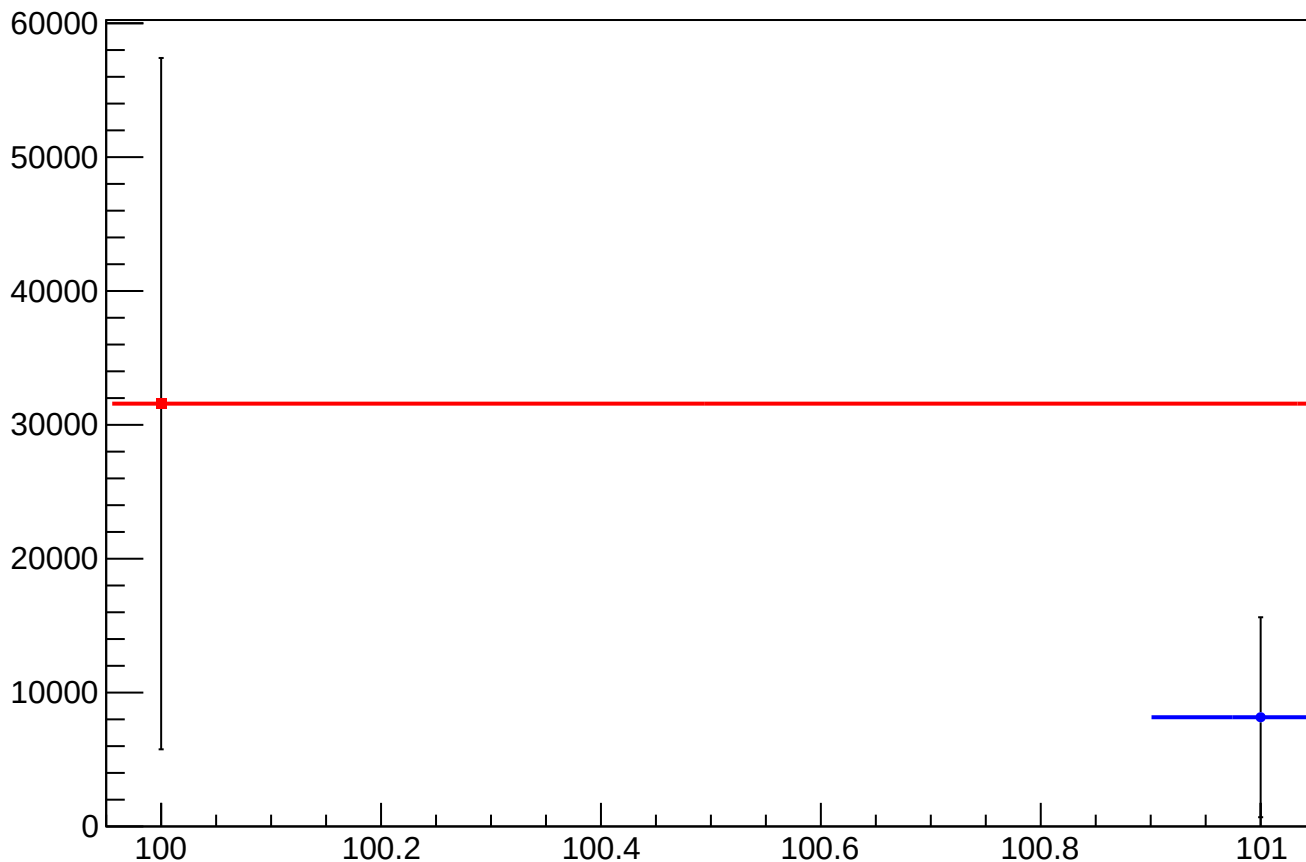
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13436.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13436.1/1

# reg\_asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 8158.861+/-7468.829  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31584.525+/-25822.427  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

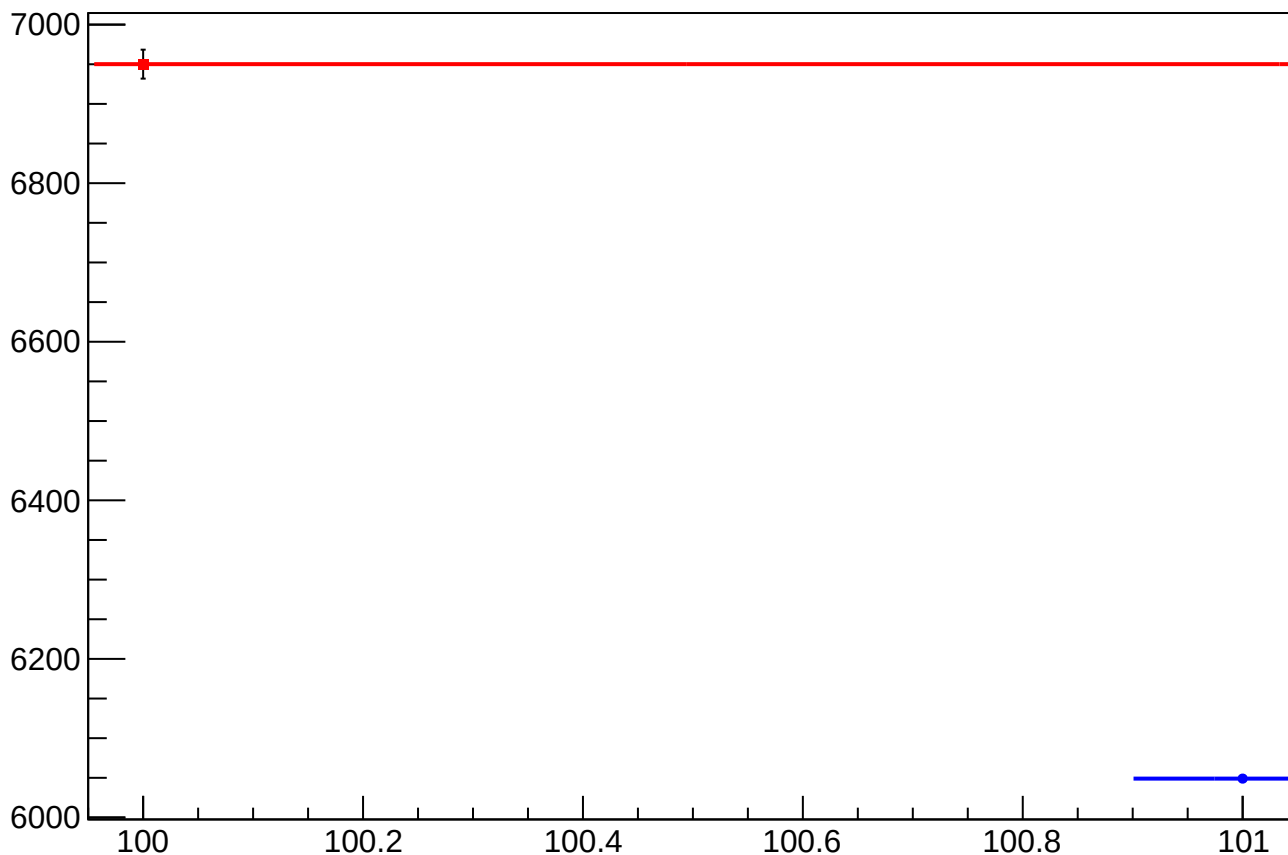
Right: 9967.327+/-7174.741  $\chi^2/\text{NDF}$ : 0.8/1

In: 8158.861+/-7468.829  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9967.327+/-7174.741  $\chi^2/\text{NDF}$ : 0.8/1

# reg\_asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 6049.005 +/- 5.281  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6950.133 +/- 18.259  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

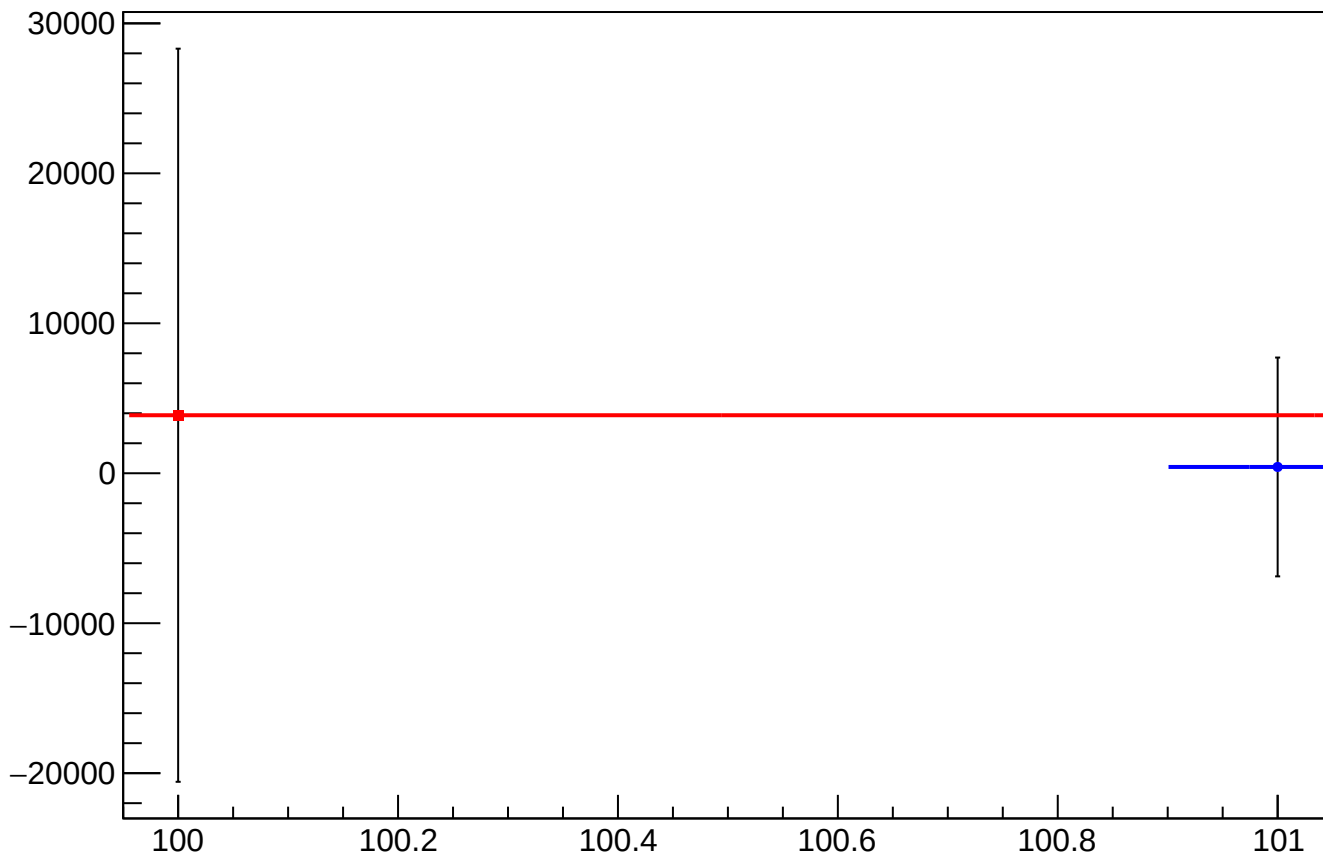
Right: 6118.572 +/- 5.073  $\chi^2/\text{NDF}$ : 2247.6/1

In: 6049.005 +/- 5.281  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6118.572 +/- 5.073  $\chi^2/\text{NDF}$ : 2247.6/1

asym\_atr\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 419.504+/-7295.614  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3868.575+/-24443.482  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

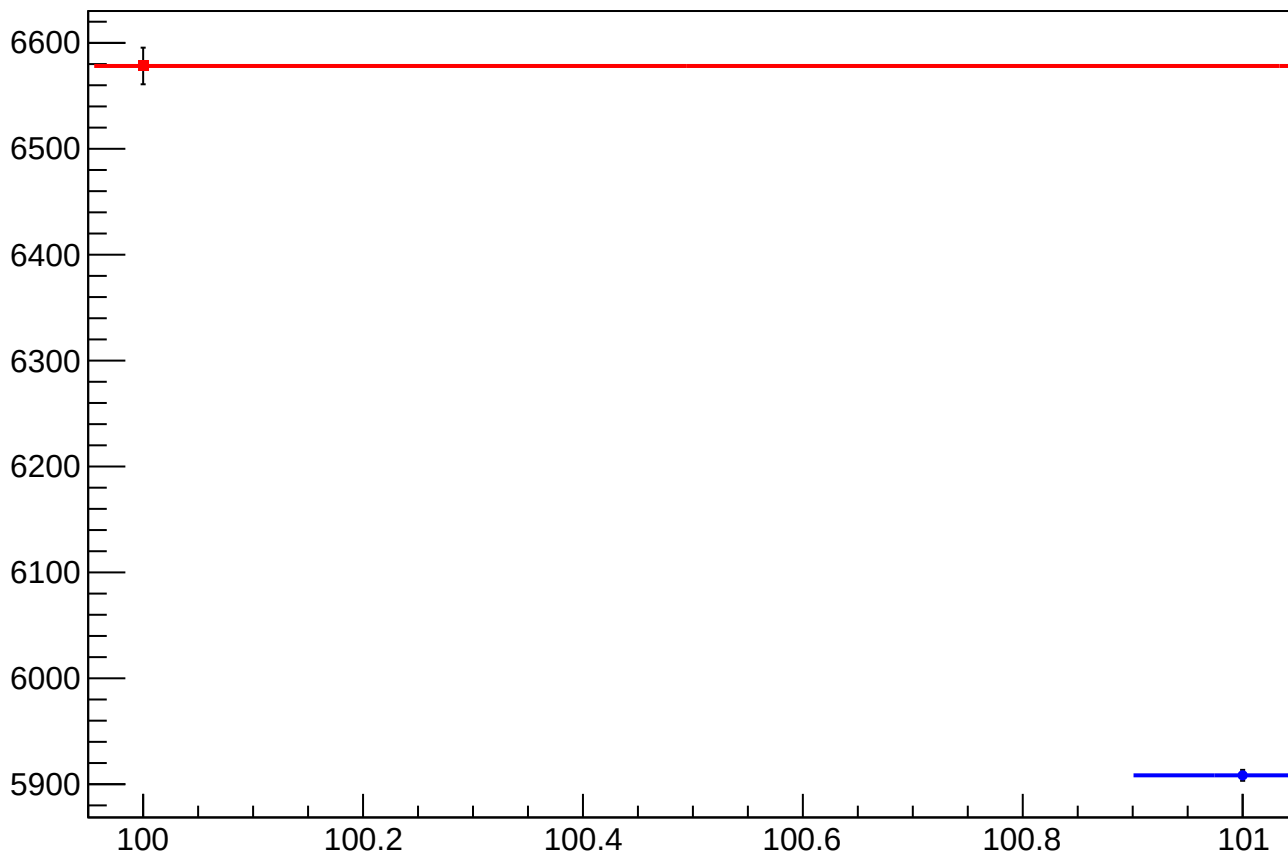
Right: 701.627+/-6990.870  $\chi^2/\text{NDF}$ : 0.0/1

In: 419.504+/-7295.614  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 701.627+/-6990.870  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 5908.384 $\pm$ 5.159  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6578.210 $\pm$ 17.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 5963.174 $\pm$ 4.943  $\chi^2$ /NDF: 1379.0/1

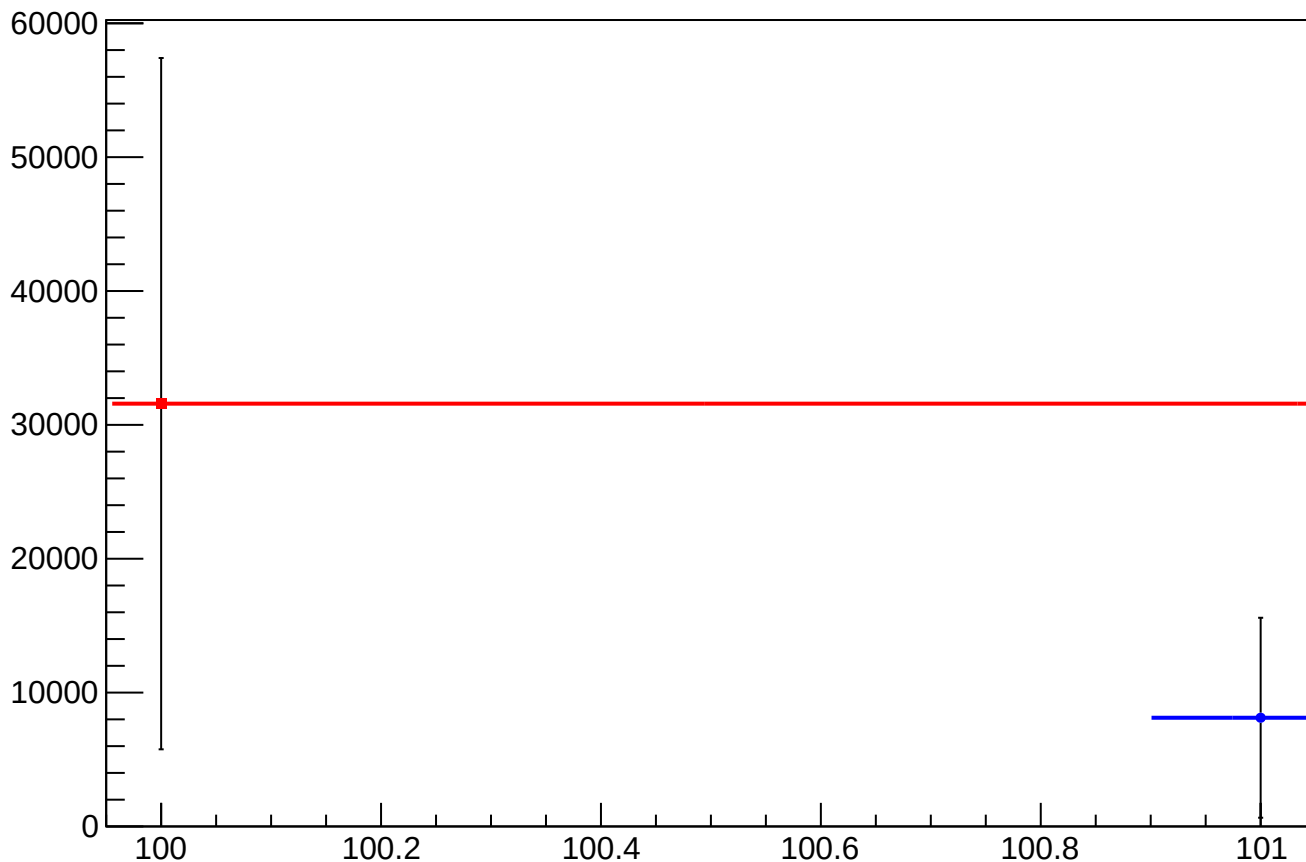
In: 5908.384 $\pm$ 5.159  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5963.174 $\pm$ 4.943  $\chi^2$ /NDF: 1379.0/1



cor\_asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 8120.973+/-7468.860  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31584.709+/-25822.427  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

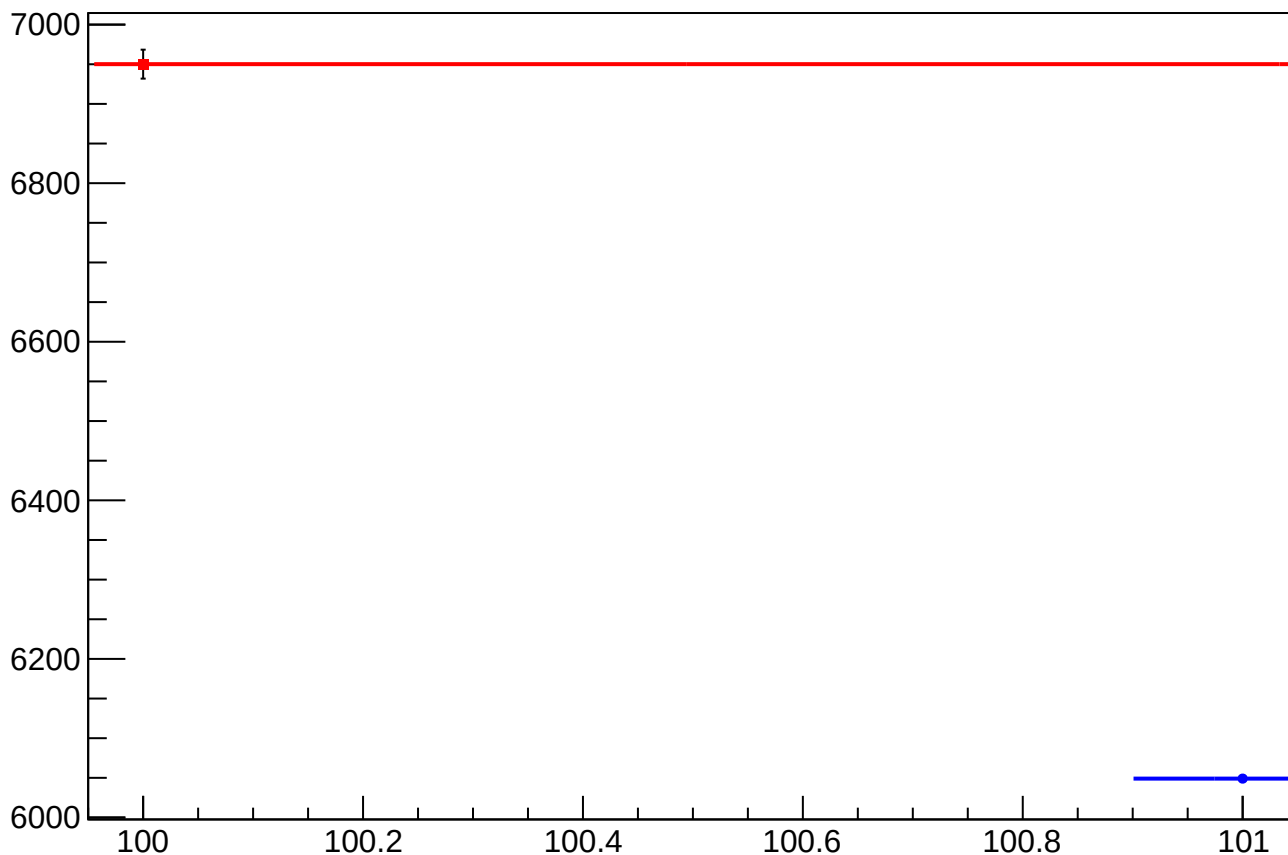
Right: 9932.392+/-7174.769  $\chi^2/\text{NDF}$ : 0.8/1

In: 8120.973+/-7468.860  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9932.392+/-7174.769  $\chi^2/\text{NDF}$ : 0.8/1

# cor\_asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 6049.023 $\pm$ 5.281  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6950.133 $\pm$ 18.259  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

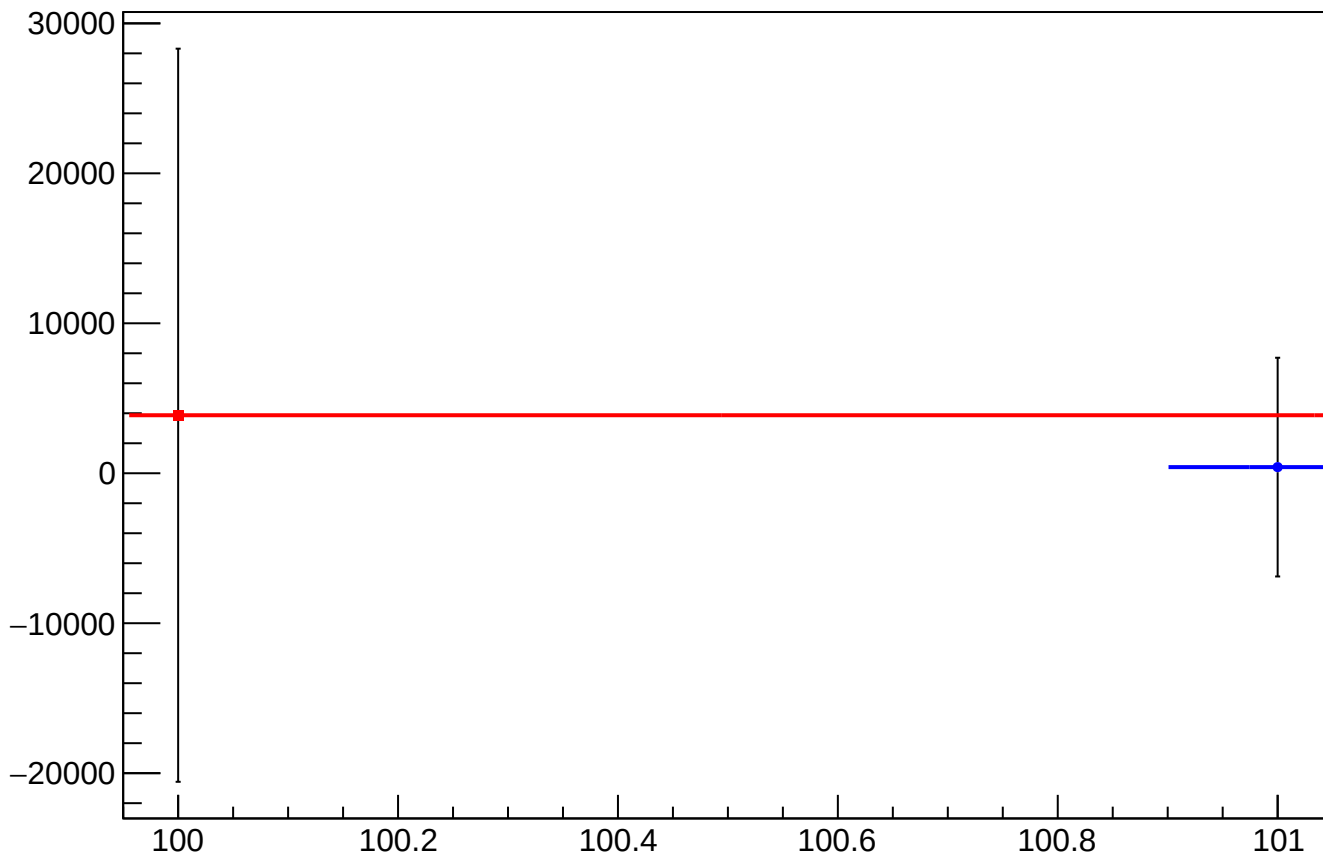
Right: 6118.589 $\pm$ 5.073  $\chi^2$ /NDF: 2247.5/1

In: 6049.023 $\pm$ 5.281  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6118.589 $\pm$ 5.073  $\chi^2$ /NDF: 2247.5/1

asym\_atr\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 409.576+/-7292.472  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3868.780+/-24443.465  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

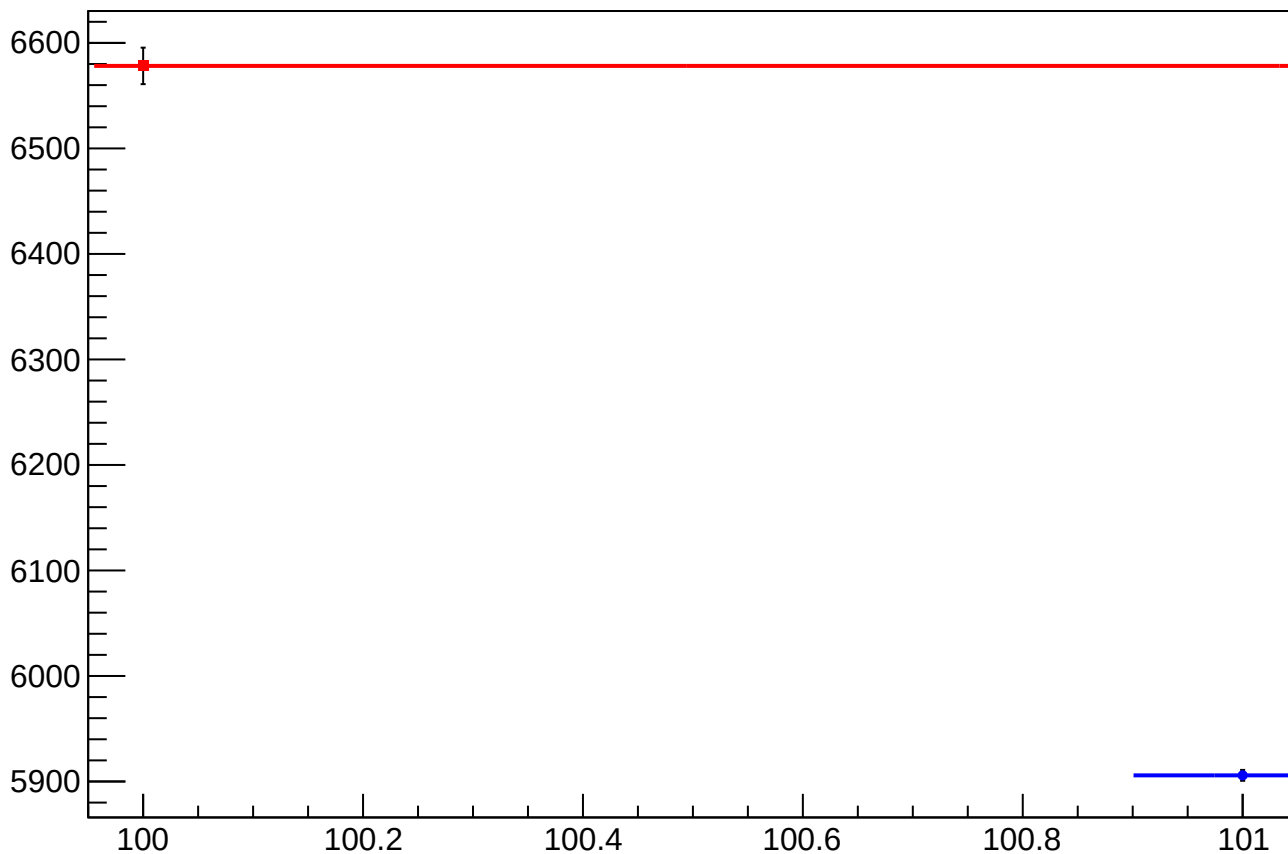
Right: 692.305+/-6988.105  $\chi^2/\text{NDF}$ : 0.0/1

In: 409.576+/-7292.472  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 692.305+/-6988.105  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5905.809±/5.157  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6578.206±/17.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/0.000  $\chi^2$ /NDF: 0.0/0

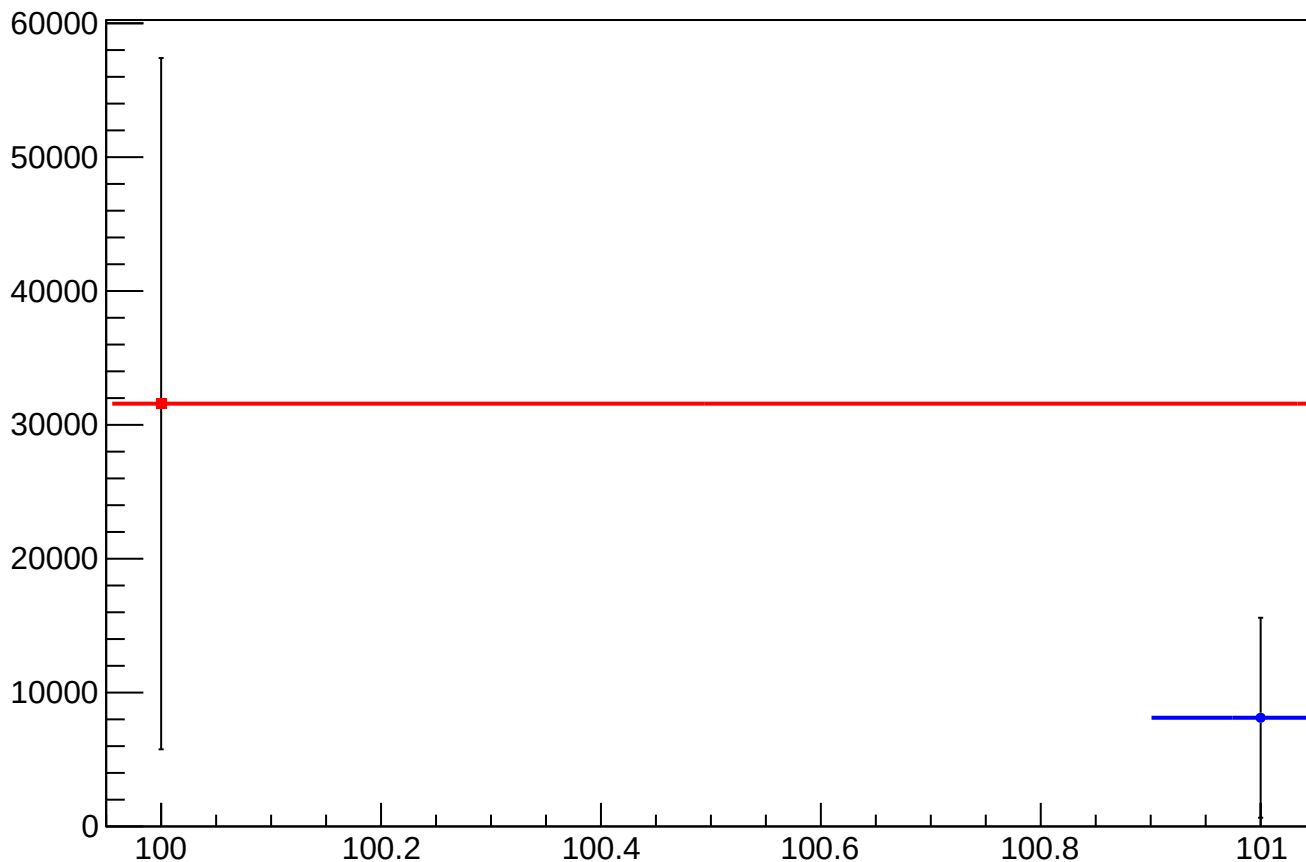
Right: 5960.765±/4.941  $\chi^2$ /NDF: 1389.7/1

In: 5905.809±/5.157  $\chi^2$ /NDF:0.0/0

Out: 0.000±/0.000  $\chi^2$ /NDF:0.0/0

All: 5960.765±/4.941  $\chi^2$ /NDF: 1389.7/1

eigen\_cor\_asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 8120.973+/-7468.860  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31584.709+/-25822.427  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

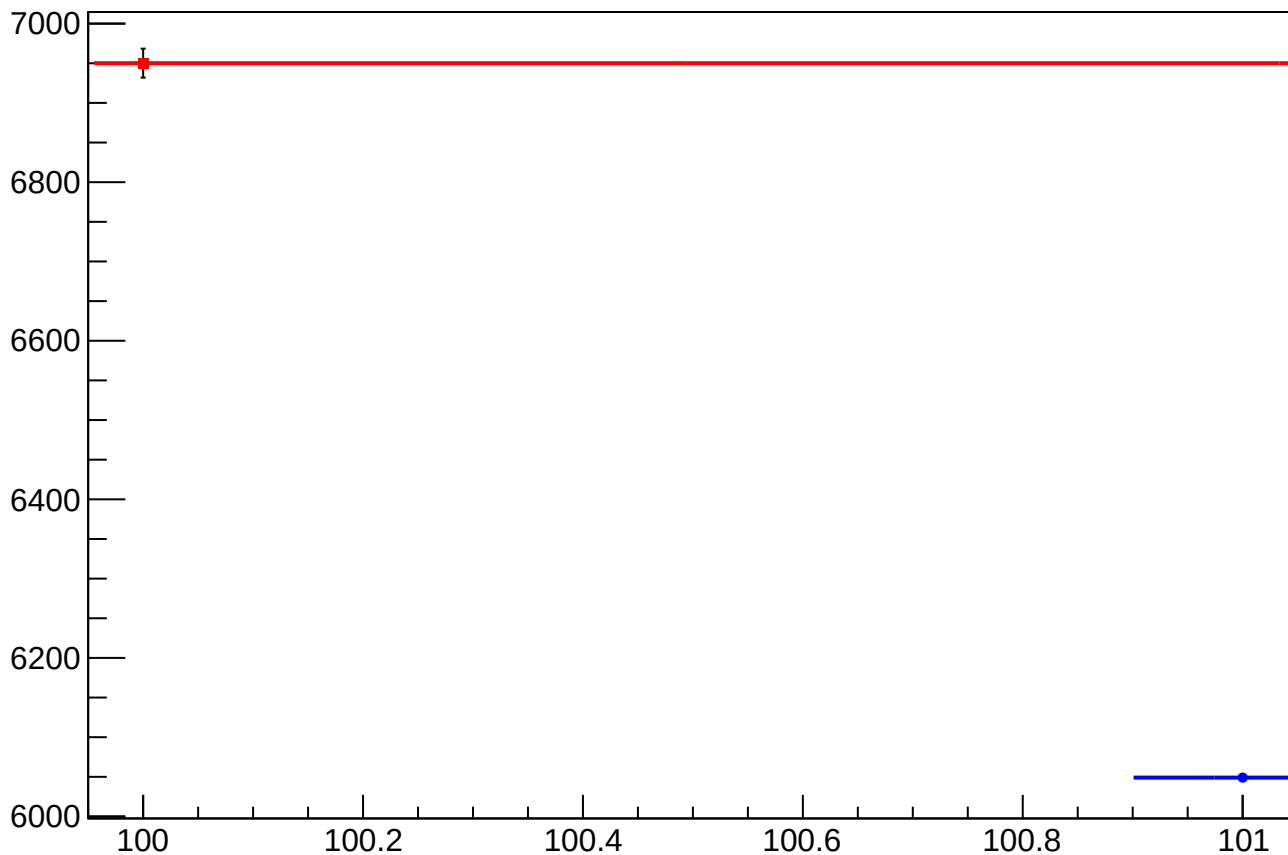
Right: 9932.392+/-7174.769  $\chi^2/\text{NDF}$ : 0.8/1

In: 8120.973+/-7468.860  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9932.392+/-7174.769  $\chi^2/\text{NDF}$ : 0.8/1

eigen\_cor\_asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 6049.023+/-5.281  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6950.133+/-18.259  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

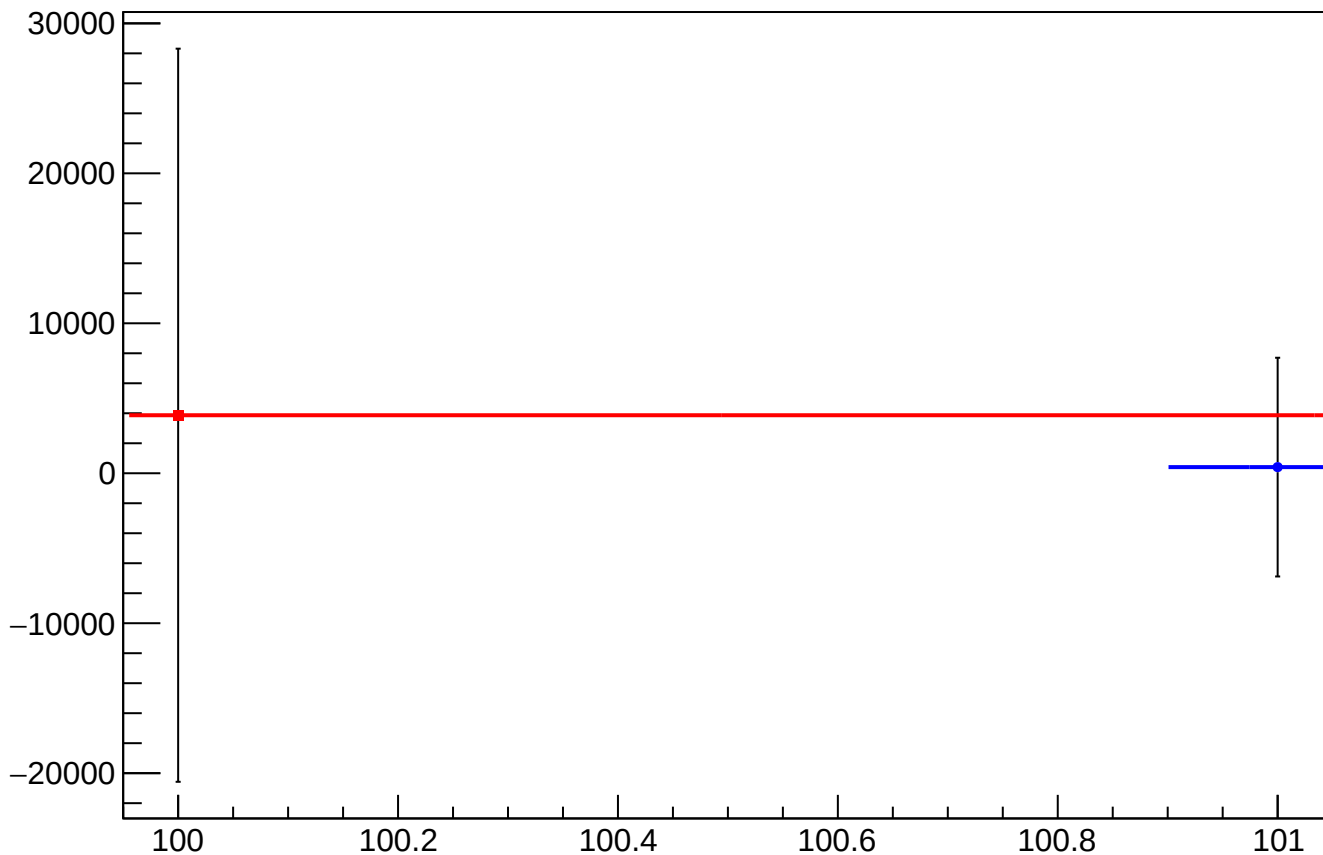
Right: 6118.589+/-5.073  $\chi^2$ /NDF: 2247.5/1

In: 6049.023+/-5.281  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 6118.589+/-5.073  $\chi^2$ /NDF: 2247.5/1

asym\_atr\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 409.576 $\pm$ 7292.472  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3868.780 $\pm$ 24443.465  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

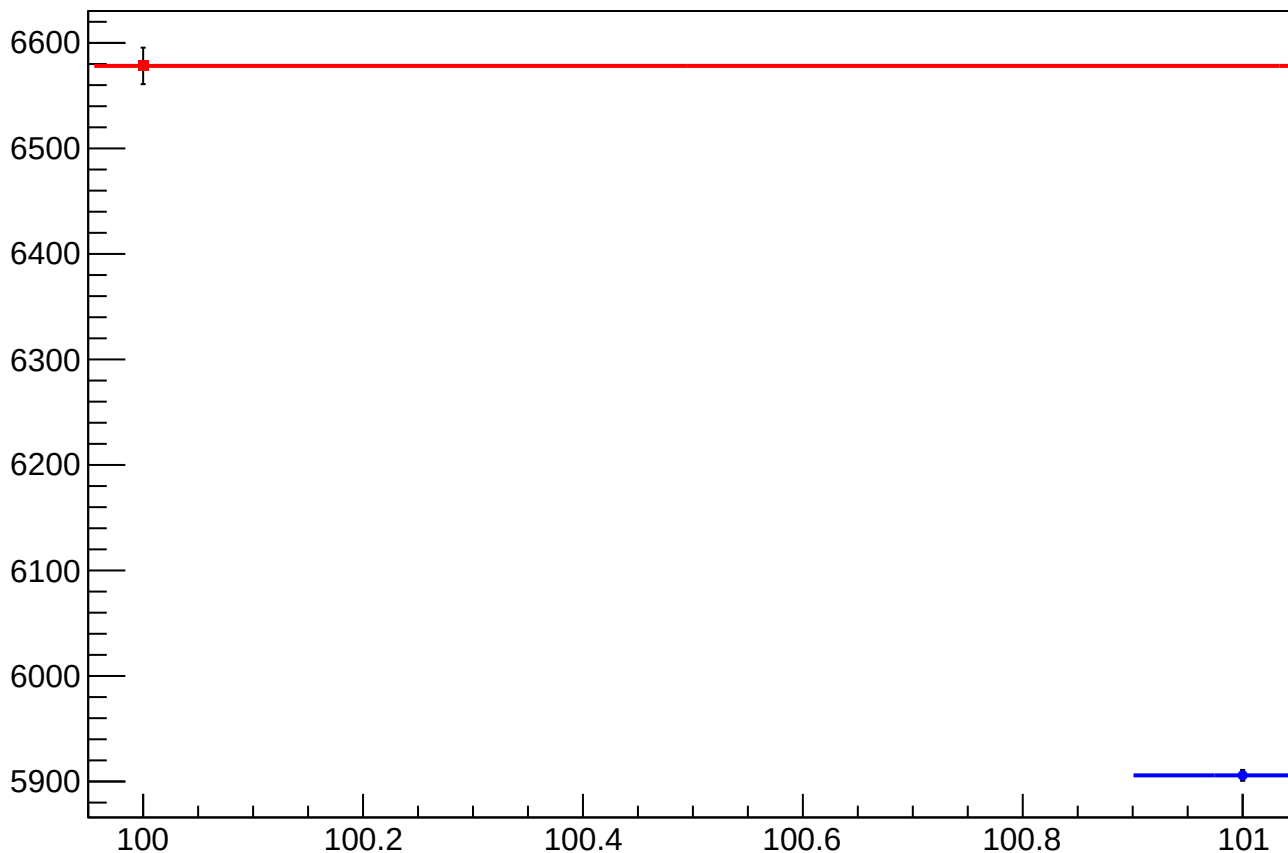
Right: 692.305 $\pm$ 6988.105  $\chi^2/\text{NDF}$ : 0.0/1

In: 409.576 $\pm$ 7292.472  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 692.305 $\pm$ 6988.105  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5905.809 $\pm$ 5.157  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6578.206 $\pm$ 17.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 5960.765 $\pm$ 4.941  $\chi^2$ /NDF: 1389.7/1

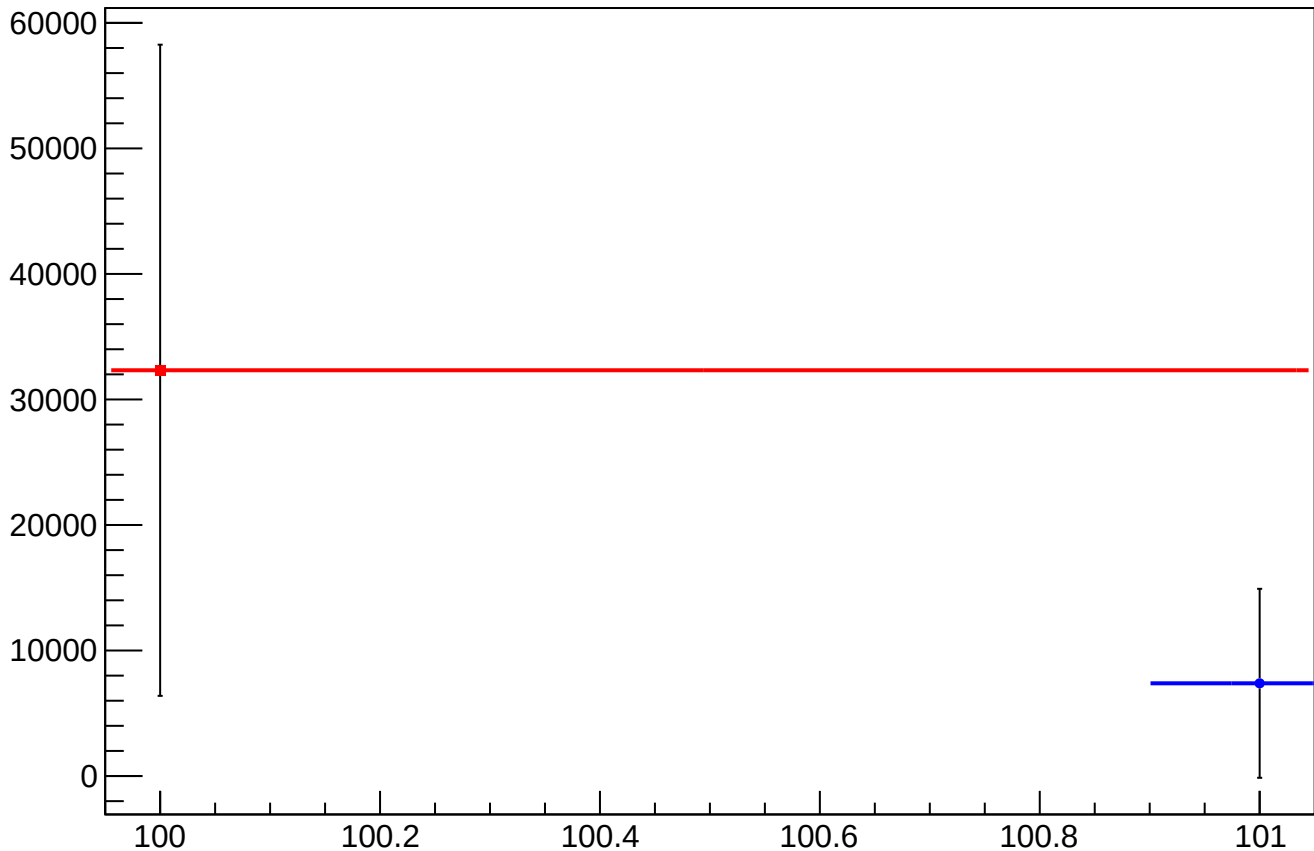
In: 5905.809 $\pm$ 5.157  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5960.765 $\pm$ 4.941  $\chi^2$ /NDF: 1389.7/1



# dit\_asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 7387.322+/-7527.414  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32326.107+/-25938.622  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

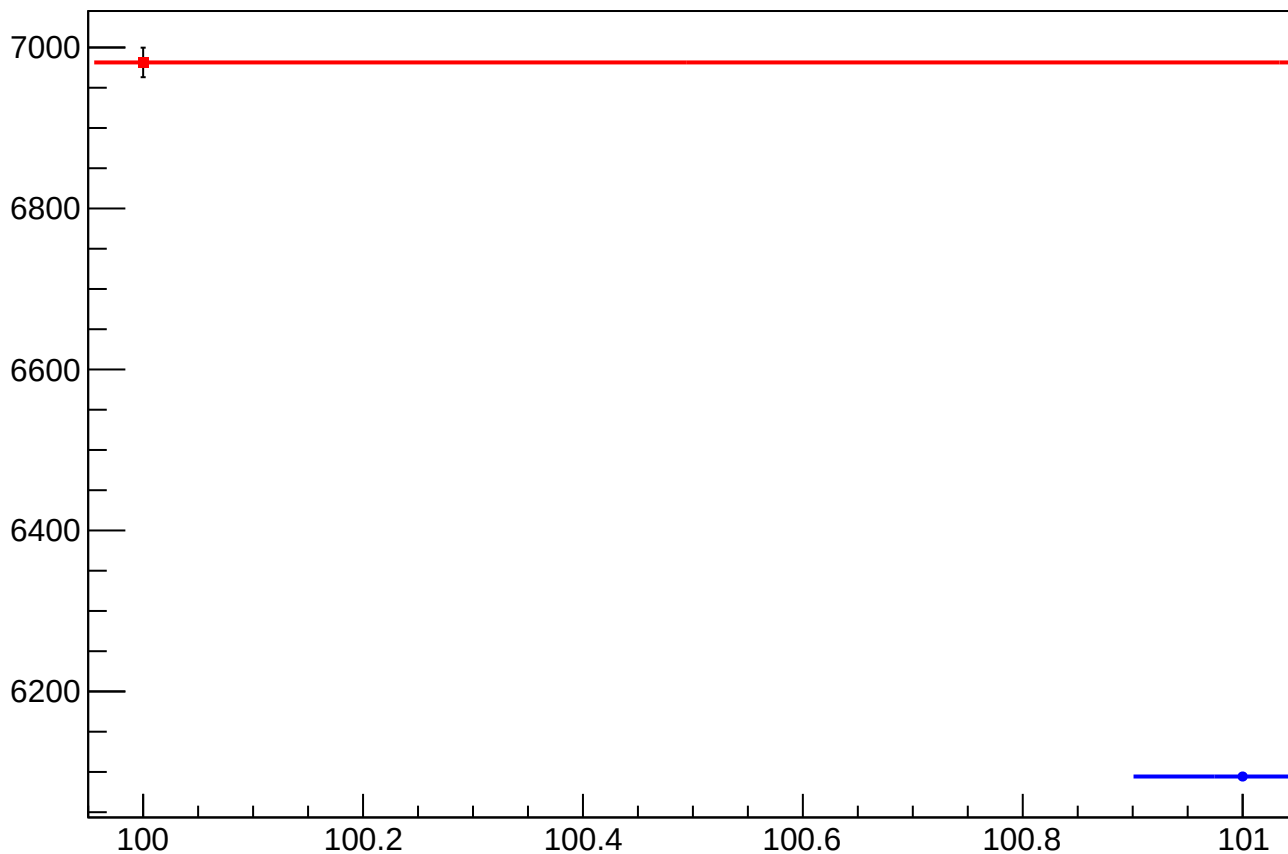
Right: 9324.444+/-7229.159  $\chi^2/\text{NDF}$ : 0.9/1

In: 7387.322+/-7527.414  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9324.444+/-7229.159  $\chi^2/\text{NDF}$ : 0.9/1

# dit\_asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 6094.330+/-5.323  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6981.432+/-18.341  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

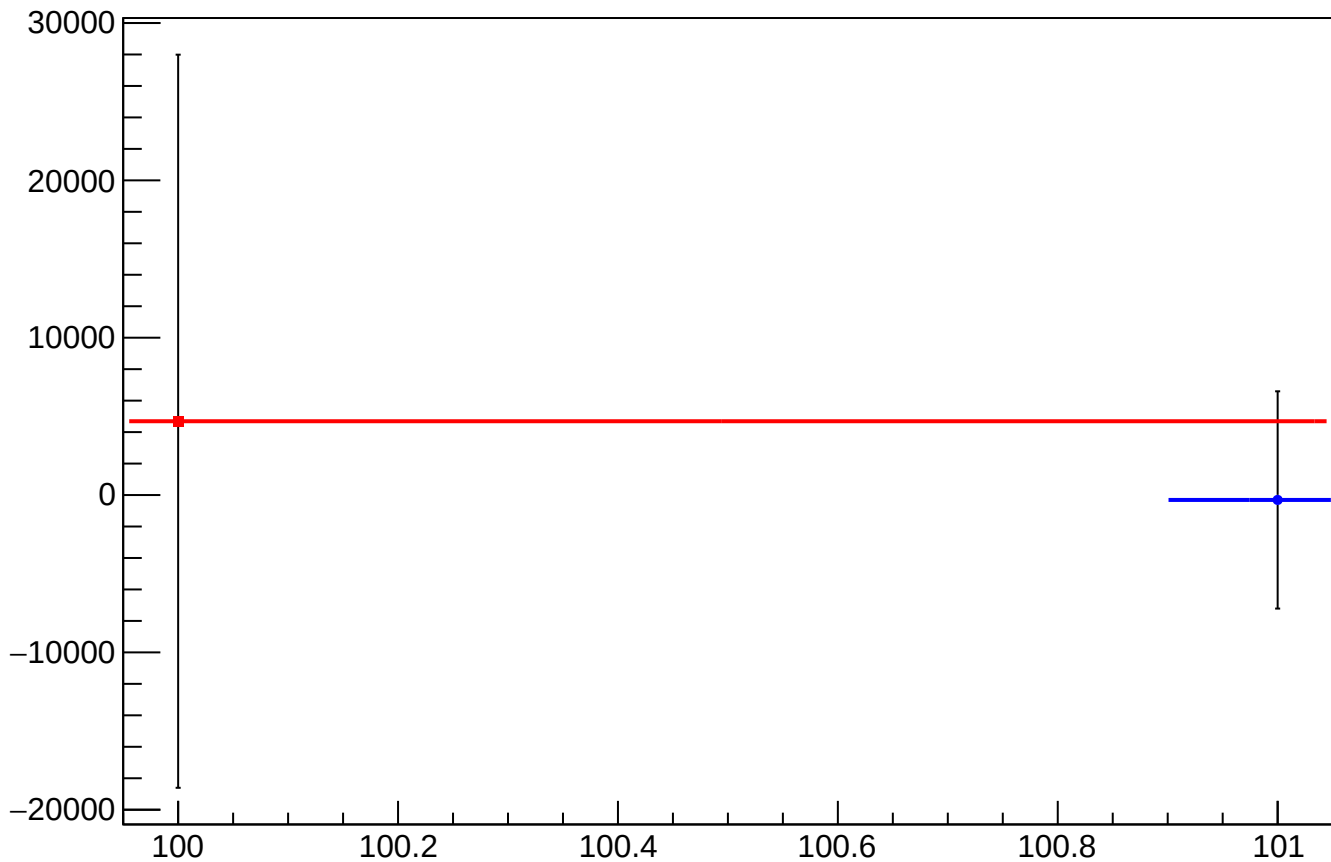
Right: 6163.236+/-5.112  $\chi^2/\text{NDF}$ : 2157.6/1

In: 6094.330+/-5.323  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6163.236+/-5.112  $\chi^2/\text{NDF}$ : 2157.6/1

asym\_atr\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -311.397+/-6904.675  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4690.912+/-23297.212  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

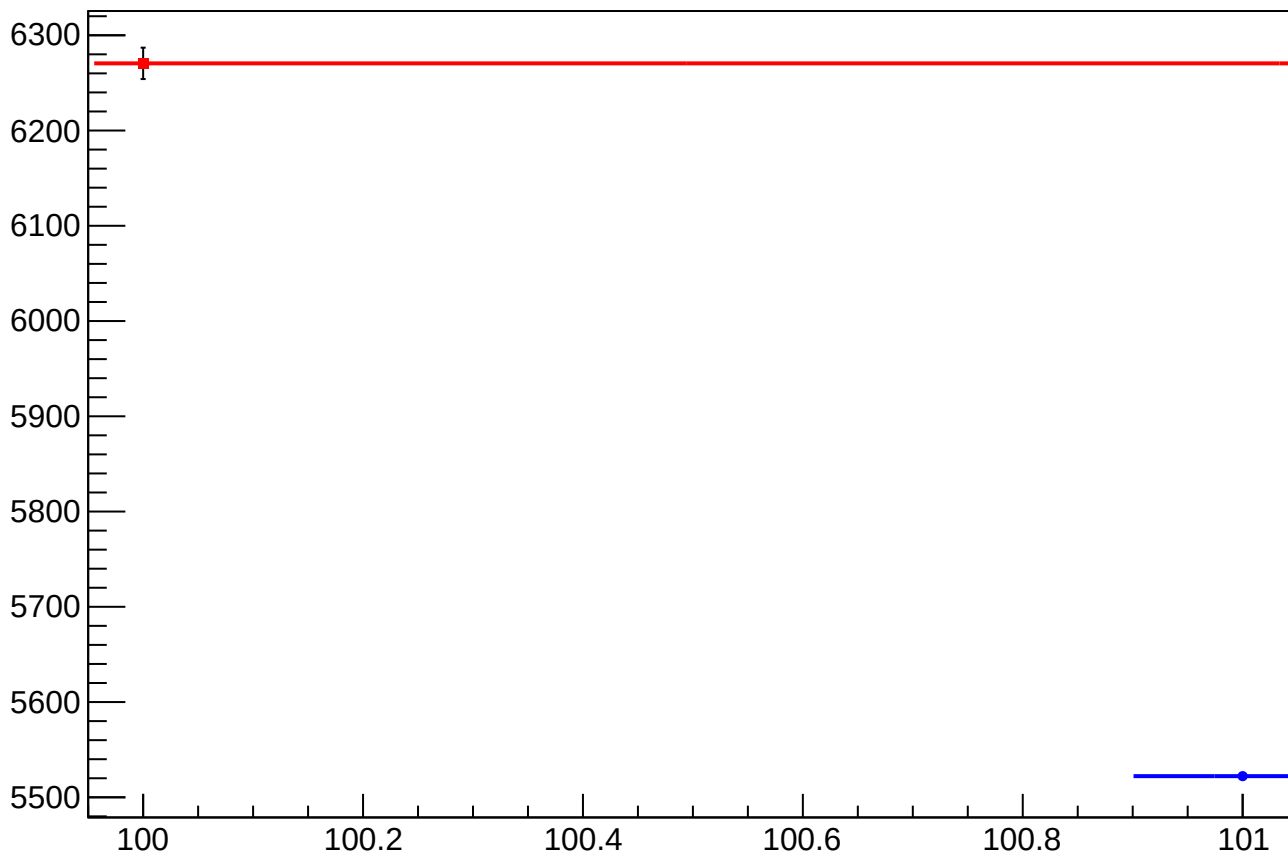
Right: 92.513+/-6620.050  $\chi^2/\text{NDF}$ : 0.0/1

In: -311.397+/-6904.675  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.513+/-6620.050  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5522.217 $\pm$ 4.882  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6270.512 $\pm$ 16.474  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

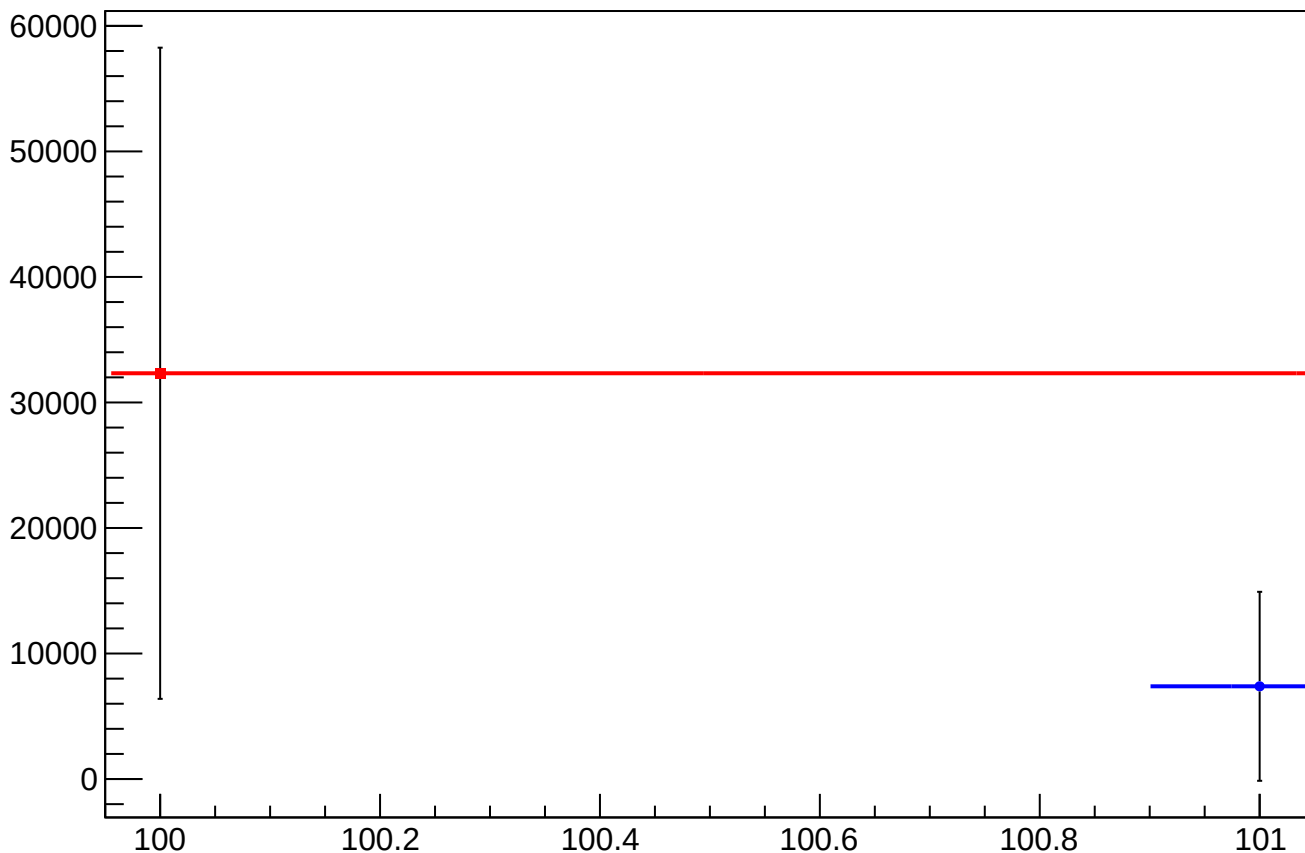
Right: 5582.638 $\pm$ 4.681  $\chi^2$ /NDF: 1896.7/1

In: 5522.217 $\pm$ 4.882  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5582.638 $\pm$ 4.681  $\chi^2$ /NDF: 1896.7/1

eigen\_dit\_asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 7387.283+/-7527.414  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 32326.260+/-25938.628  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

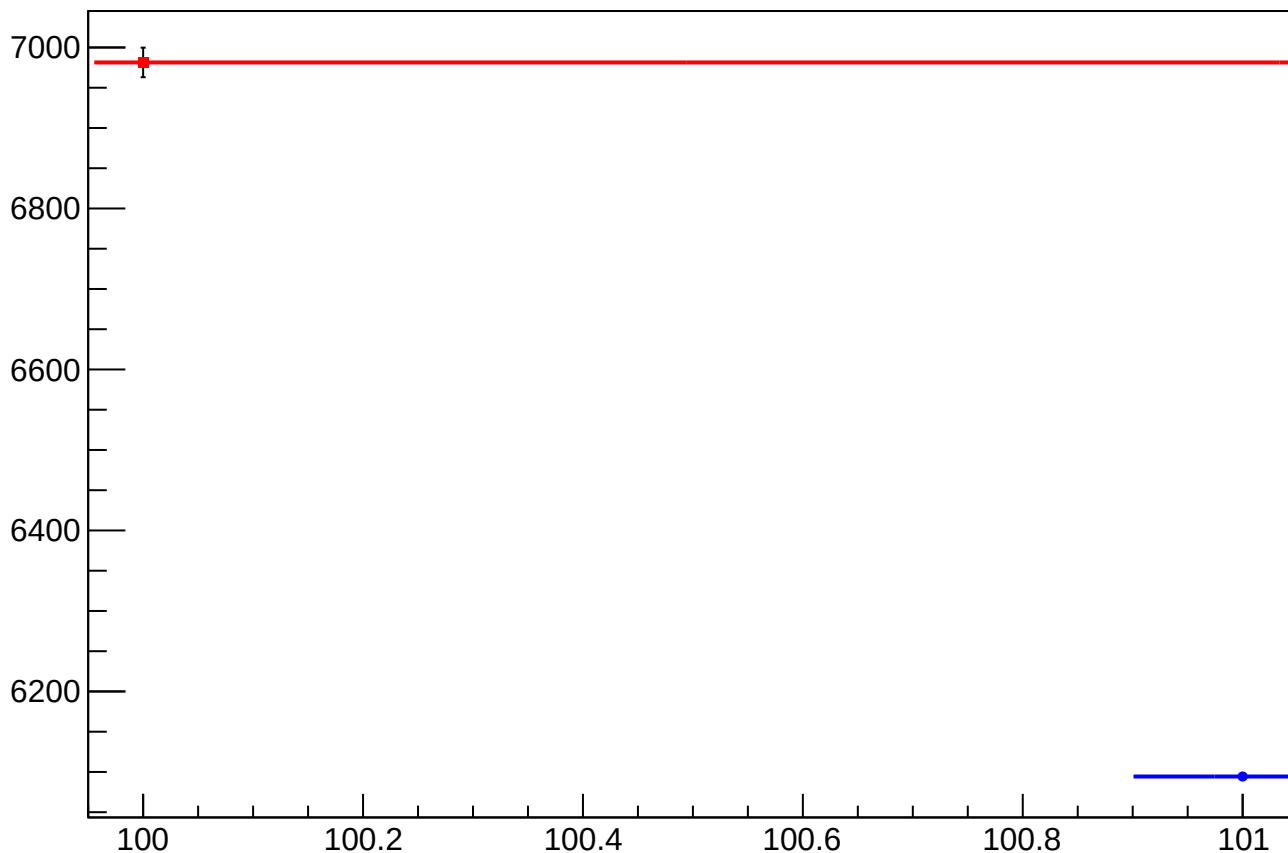
Right: 9324.419+/-7229.159  $\chi^2$ /NDF: 0.9/1

In: 7387.283+/-7527.414  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 9324.419+/-7229.159  $\chi^2$ /NDF: 0.9/1

eigen\_dit\_asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 6094.331 $\pm$ 5.323  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6981.434 $\pm$ 18.341  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

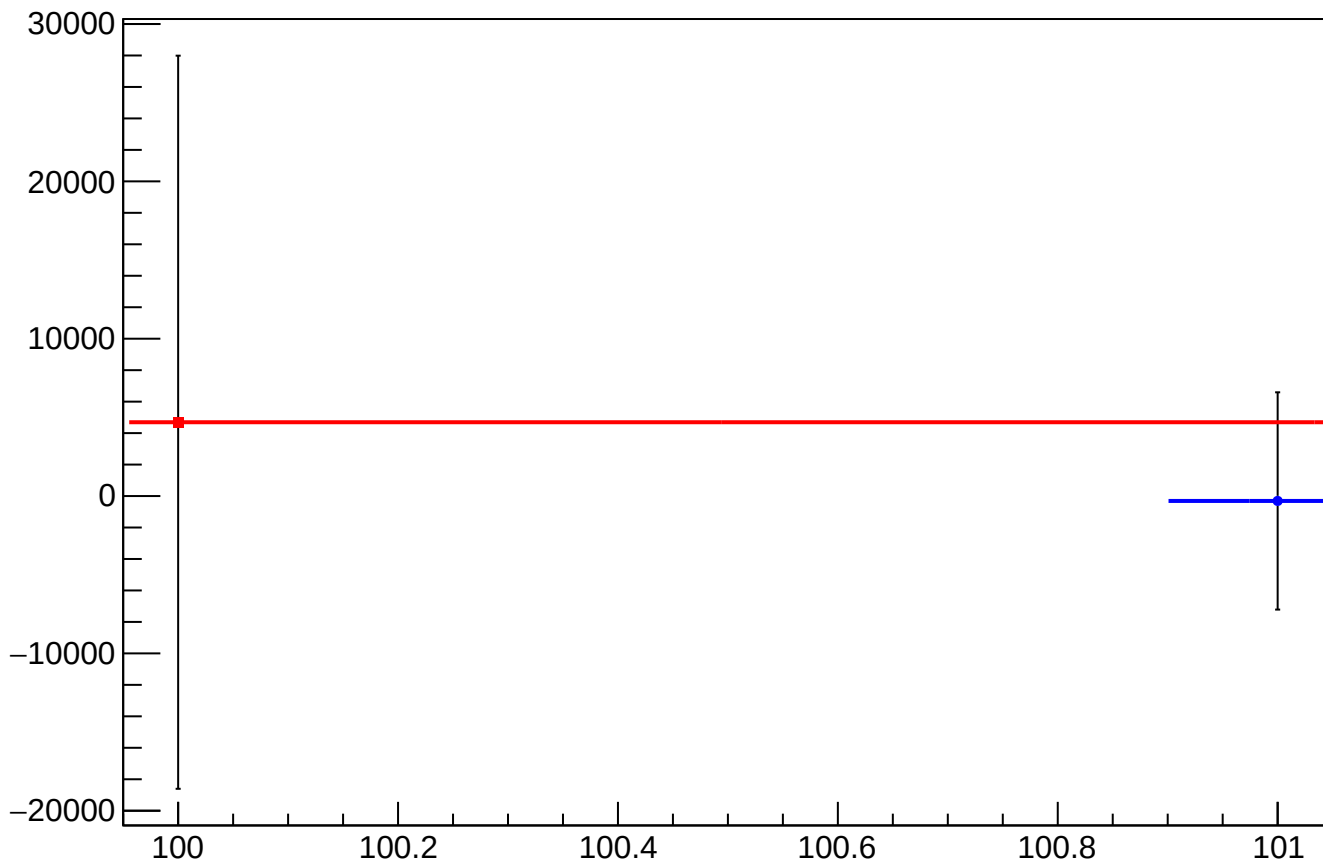
Right: 6163.236 $\pm$ 5.112  $\chi^2$ /NDF: 2157.6/1

In: 6094.331 $\pm$ 5.323  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 6163.236 $\pm$ 5.112  $\chi^2$ /NDF: 2157.6/1

asym\_atr\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -311.426+/-6904.667  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4691.067+/-23297.160  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

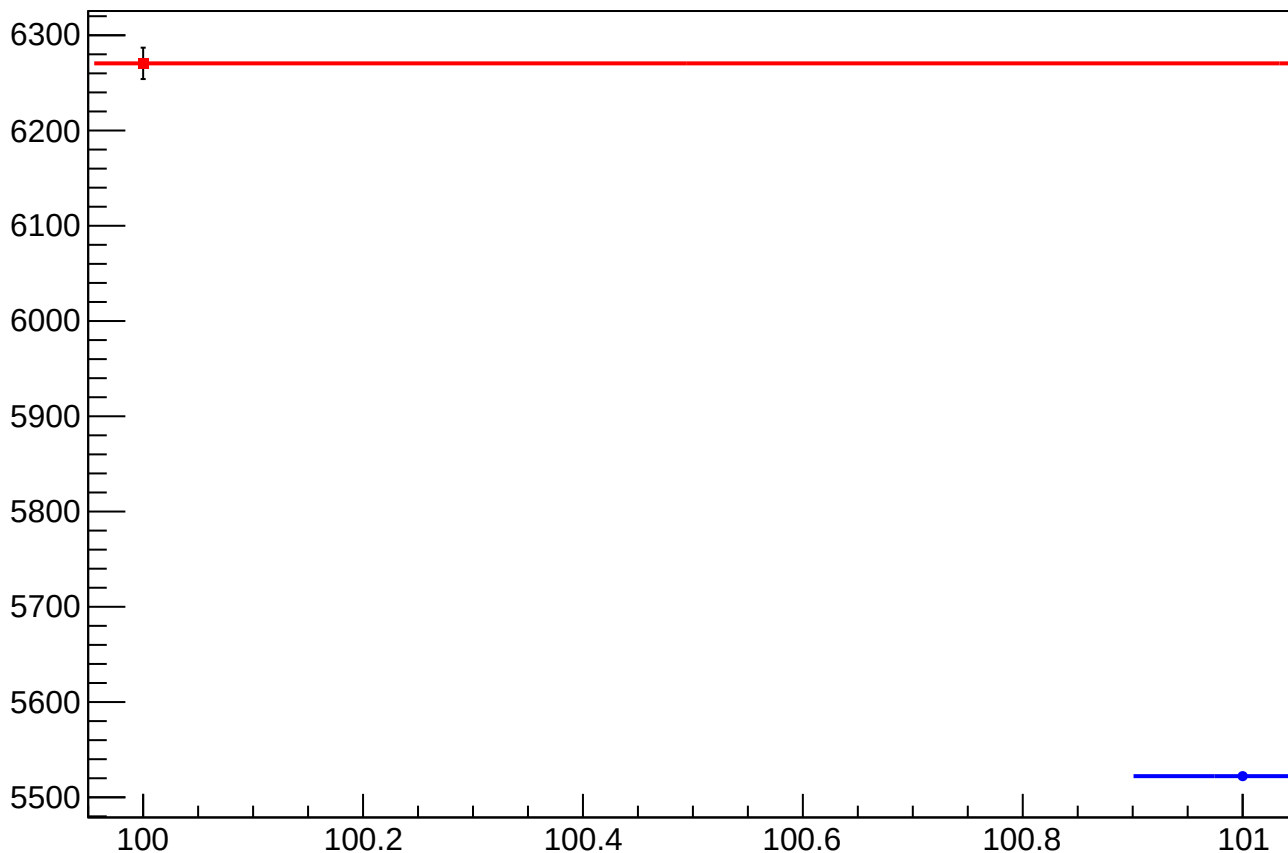
Right: 92.500+/-6620.042  $\chi^2/\text{NDF}$ : 0.0/1

In: -311.426+/-6904.667  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 92.500+/-6620.042  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5522.211+/-4.882  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6270.498+/-16.474  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 5582.631+/-4.681  $\chi^2/\text{NDF}$ : 1896.7/1

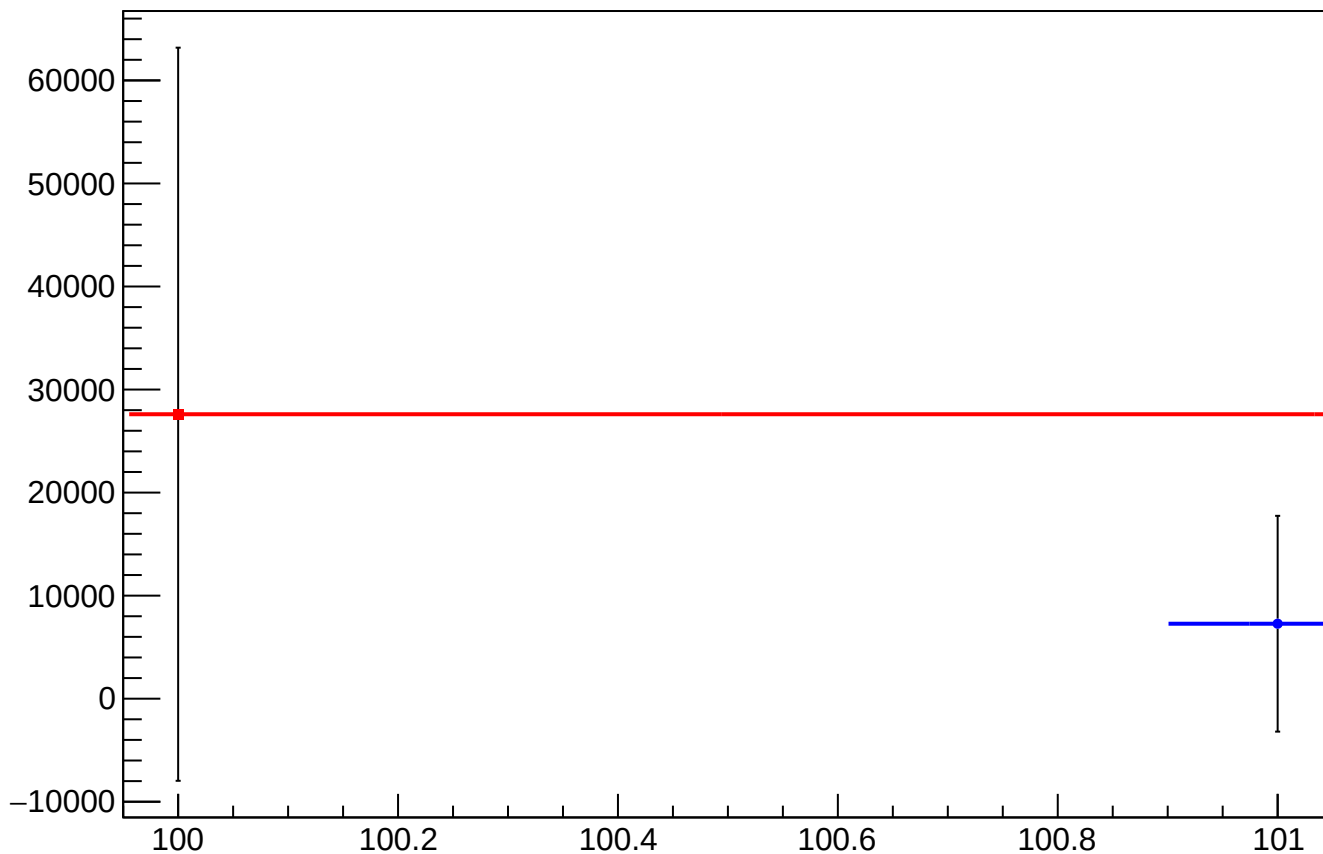
In: 5522.211+/-4.882  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5582.631+/-4.681  $\chi^2/\text{NDF}$ : 1896.7/1



# asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 7273.953+/-10470.513  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27604.321+/-35572.944  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

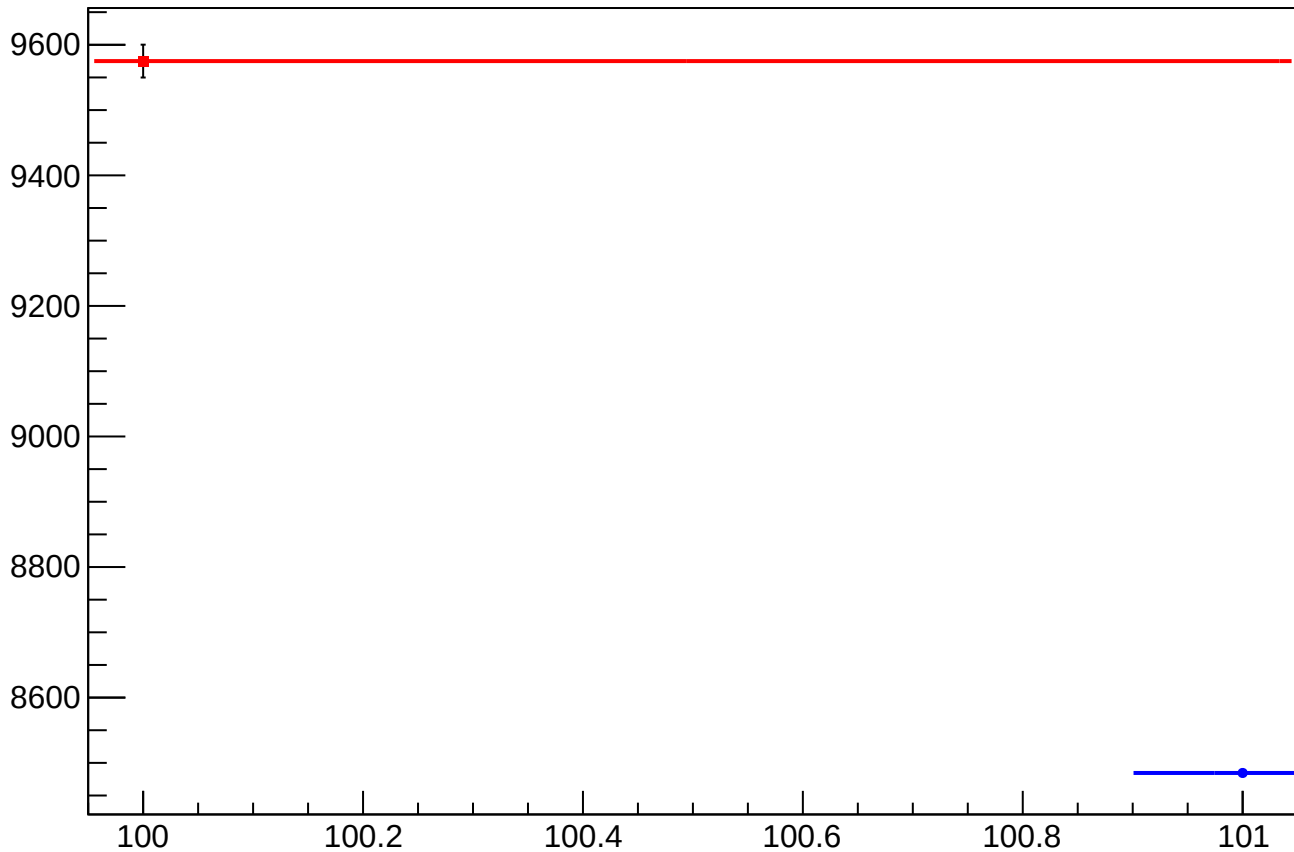
Right: 8894.858+/-10044.446  $\chi^2/\text{NDF}$ : 0.3/1

In: 7273.953+/-10470.513  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8894.858+/-10044.446  $\chi^2/\text{NDF}$ : 0.3/1

# asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 8484.539+/-7.404  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9575.055+/-25.154  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

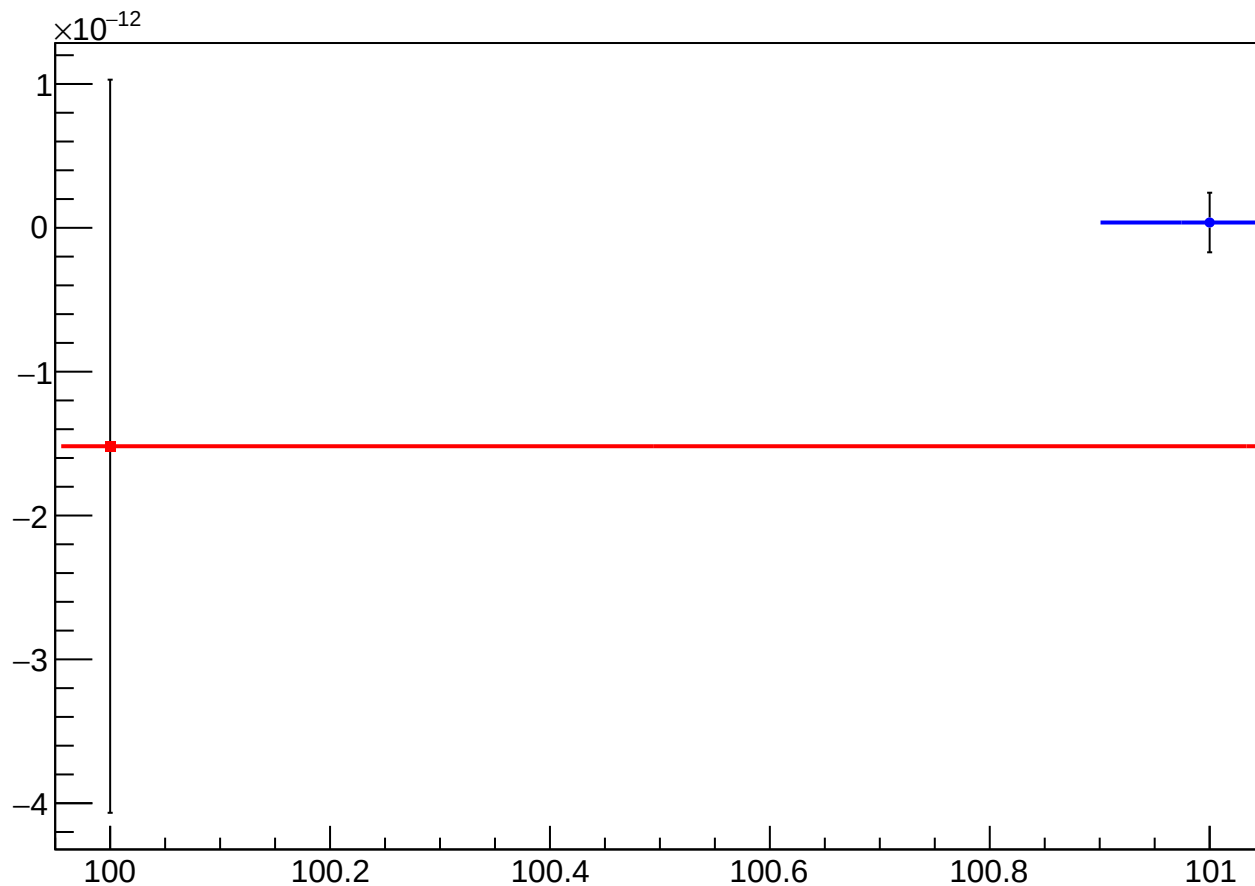
Right: 8571.484+/-7.102  $\chi^2/\text{NDF}$ : 1729.7/1

In: 8484.539+/-7.404  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8571.484+/-7.102  $\chi^2/\text{NDF}$ : 1729.7/1

asym\_atr\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

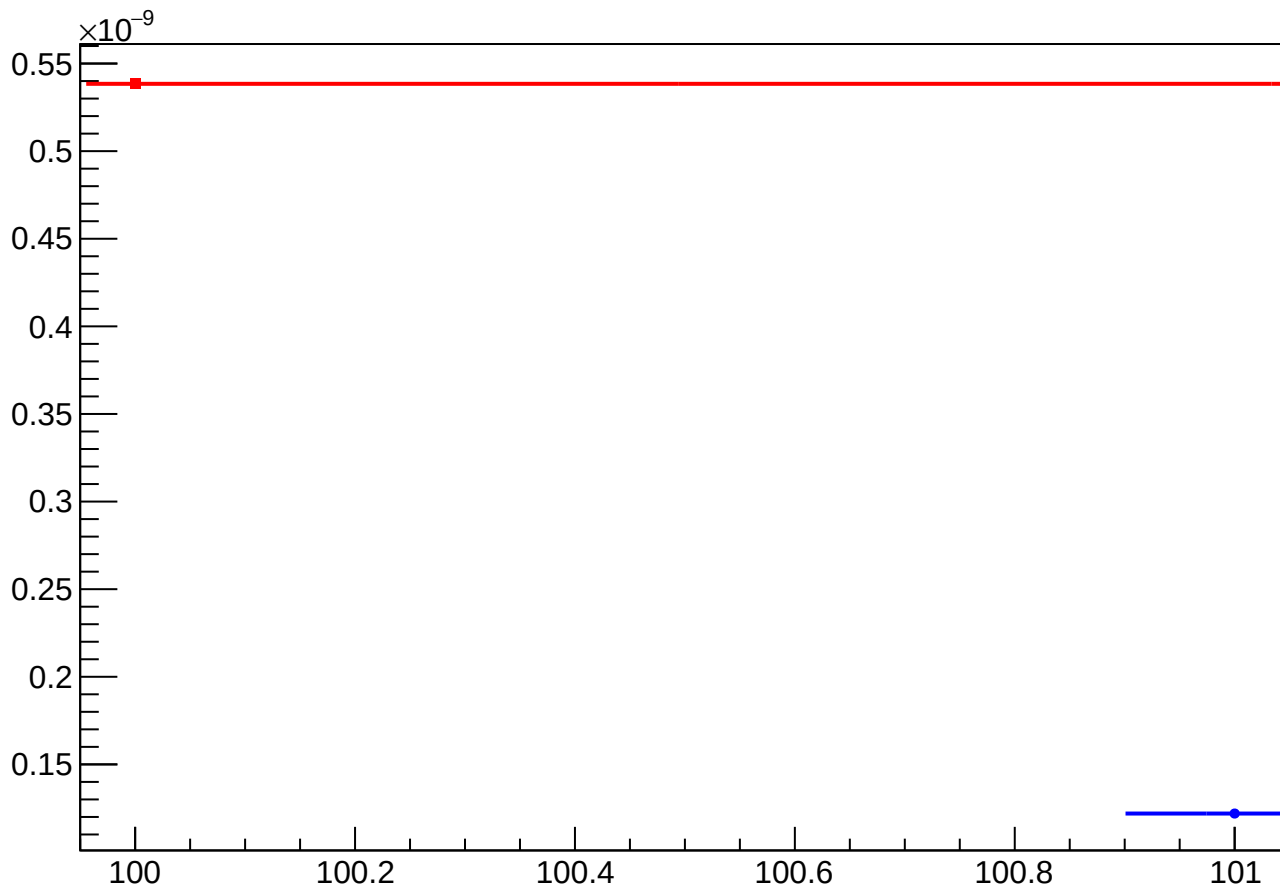
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atr\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

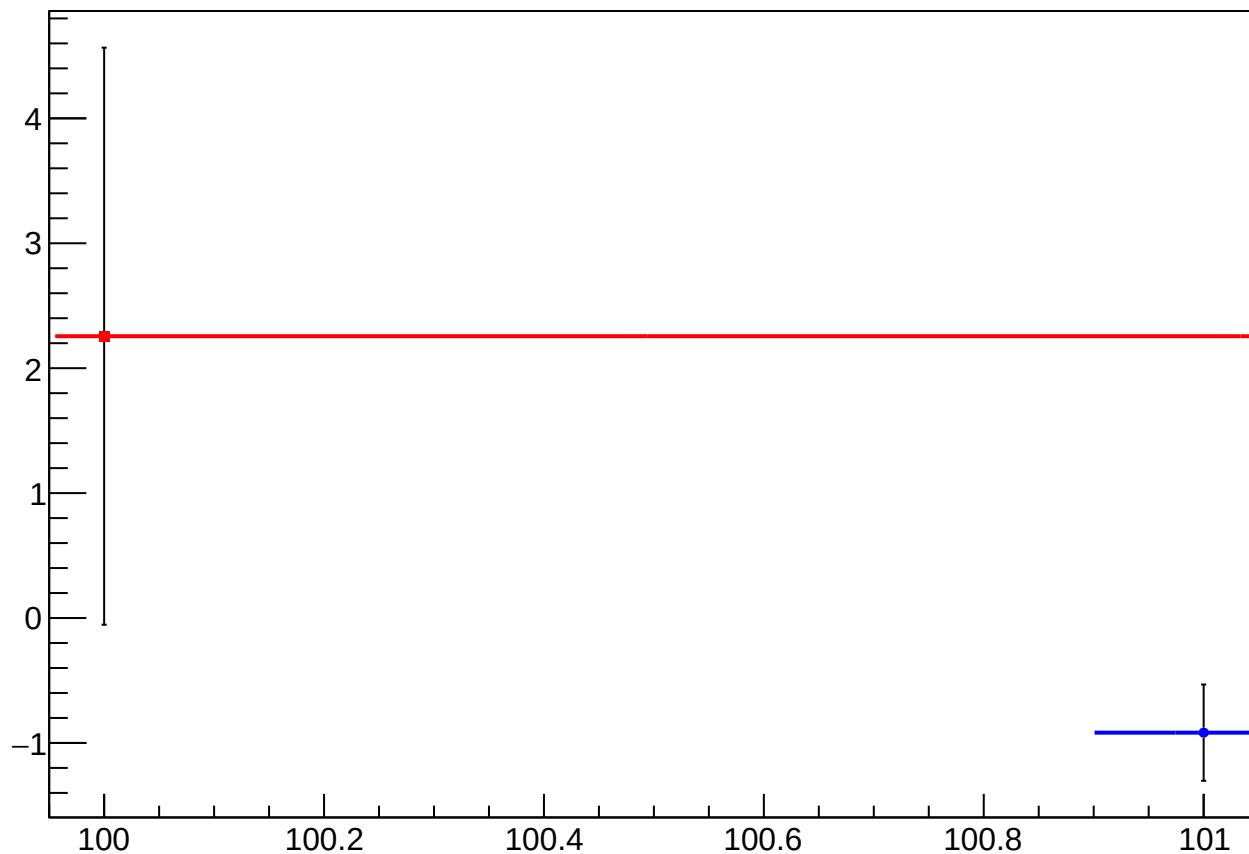
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 53069.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 53069.1/1

asym\_atr\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.918+/-0.385  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.256+/-2.310  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

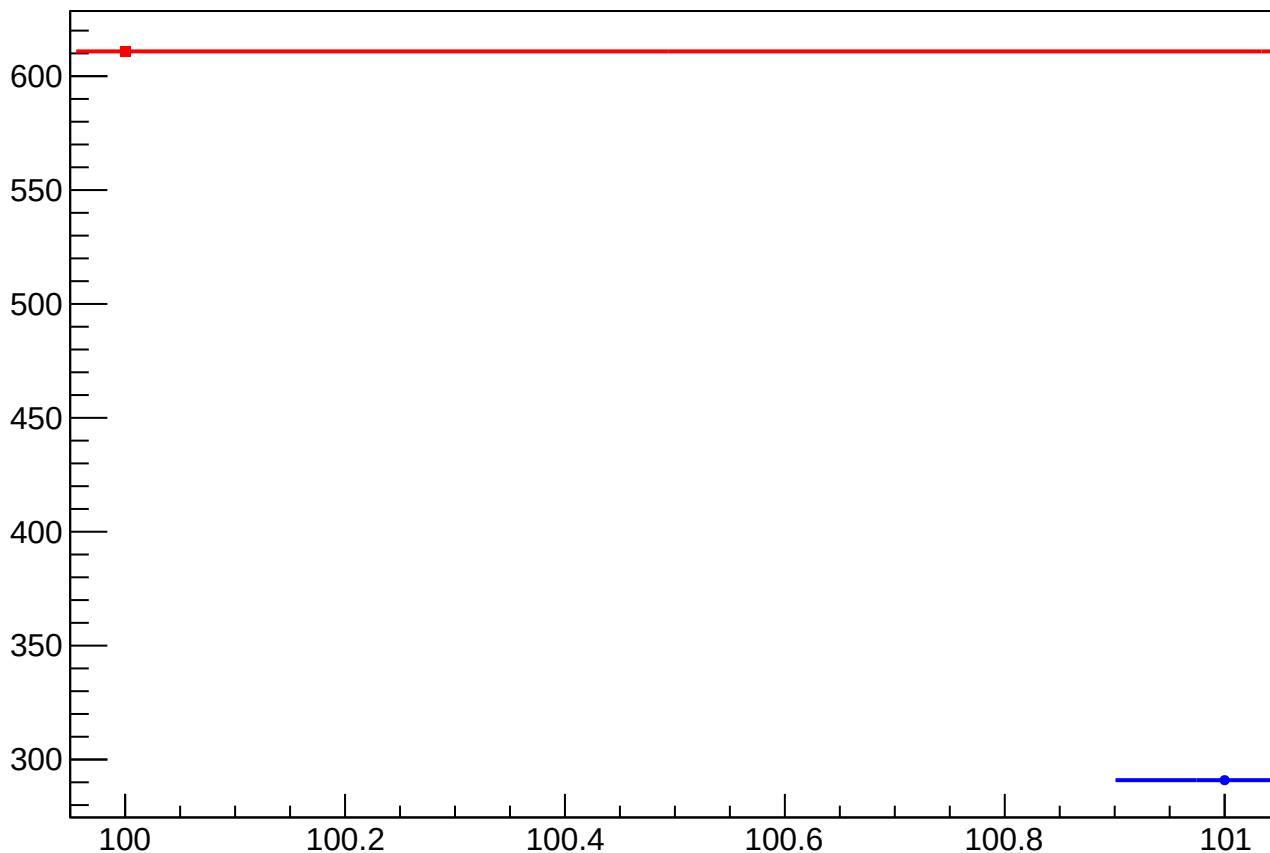
Right: -0.832+/-0.380  $\chi^2/\text{NDF}$ : 1.8/1

In: -0.918+/-0.385  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.832+/-0.380  $\chi^2/\text{NDF}$ : 1.8/1

asym\_atr\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 290.933+/-0.273  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 610.877+/-1.633  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

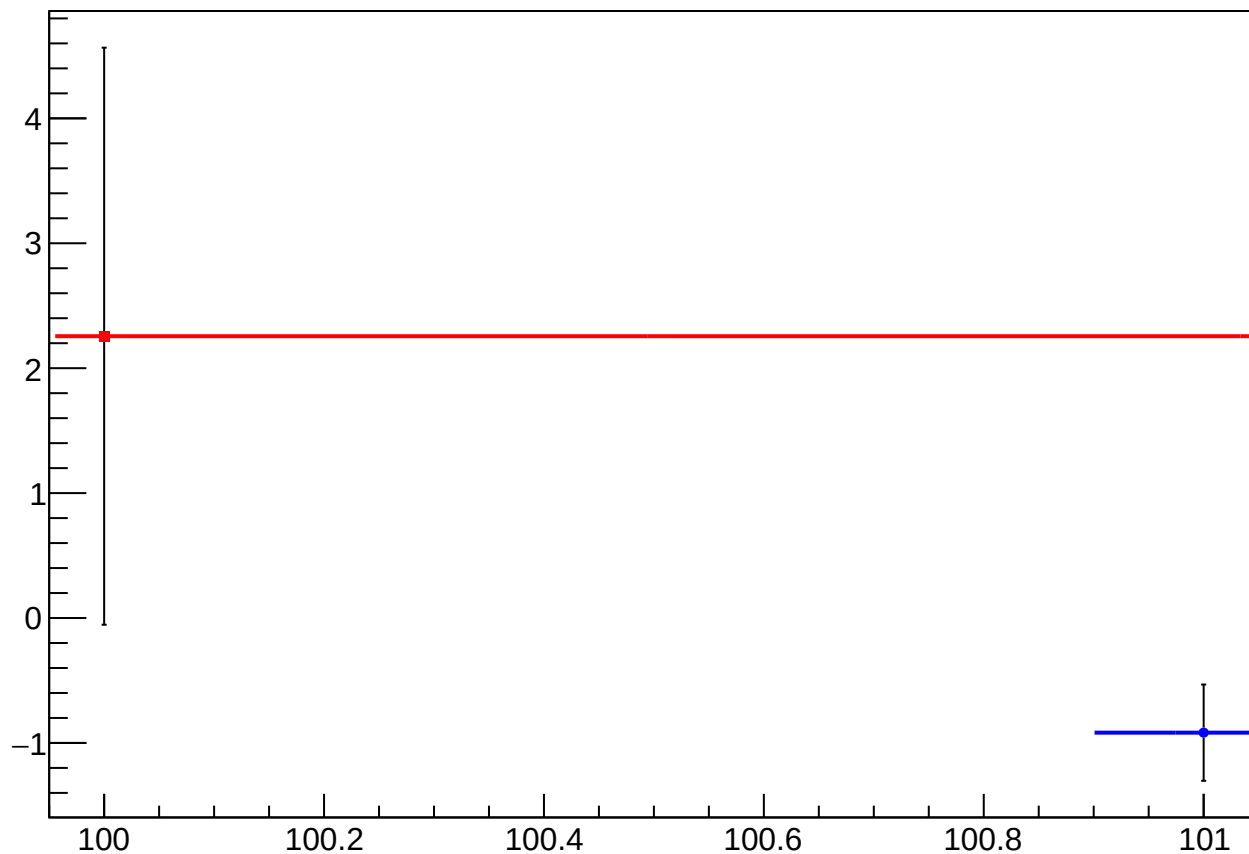
Right: 299.599+/-0.269  $\chi^2/\text{NDF}$ : 37334.9/1

In: 290.933+/-0.273  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 299.599+/-0.269  $\chi^2/\text{NDF}$ : 37334.9/1

asym\_atr\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.918 \pm 0.385$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $2.256 \pm 2.310$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

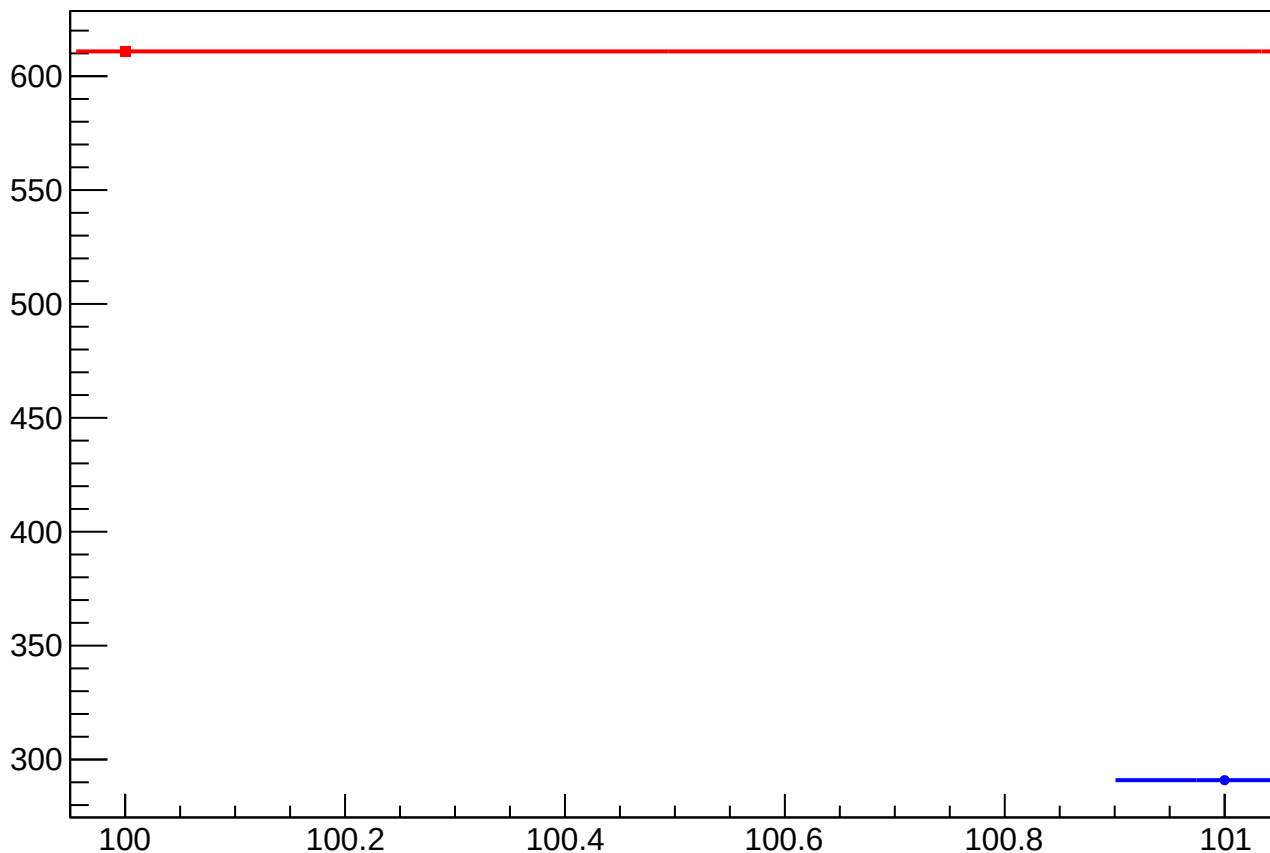
Right:  $-0.832 \pm 0.380$   $\chi^2/\text{NDF}: 1.8/1$

In:  $-0.918 \pm 0.385$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.832 \pm 0.380$   $\chi^2/\text{NDF}: 1.8/1$

asym\_atr\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 290.933+/-0.273  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 610.877+/-1.633  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 299.599+/-0.269  $\chi^2/\text{NDF}$ : 37334.9/1

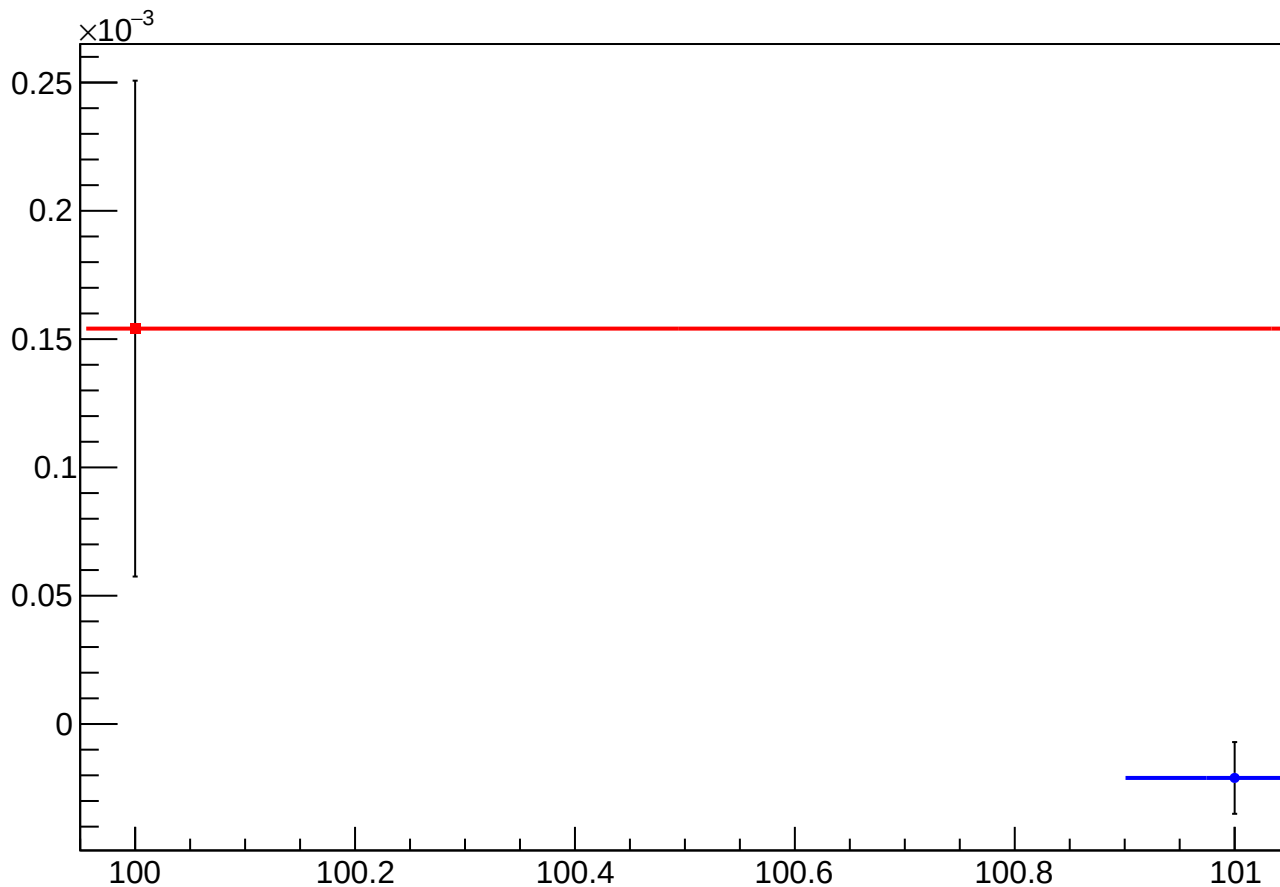
In: 290.933+/-0.273  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 299.599+/-0.269  $\chi^2/\text{NDF}$ : 37334.9/1



asym\_atr\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

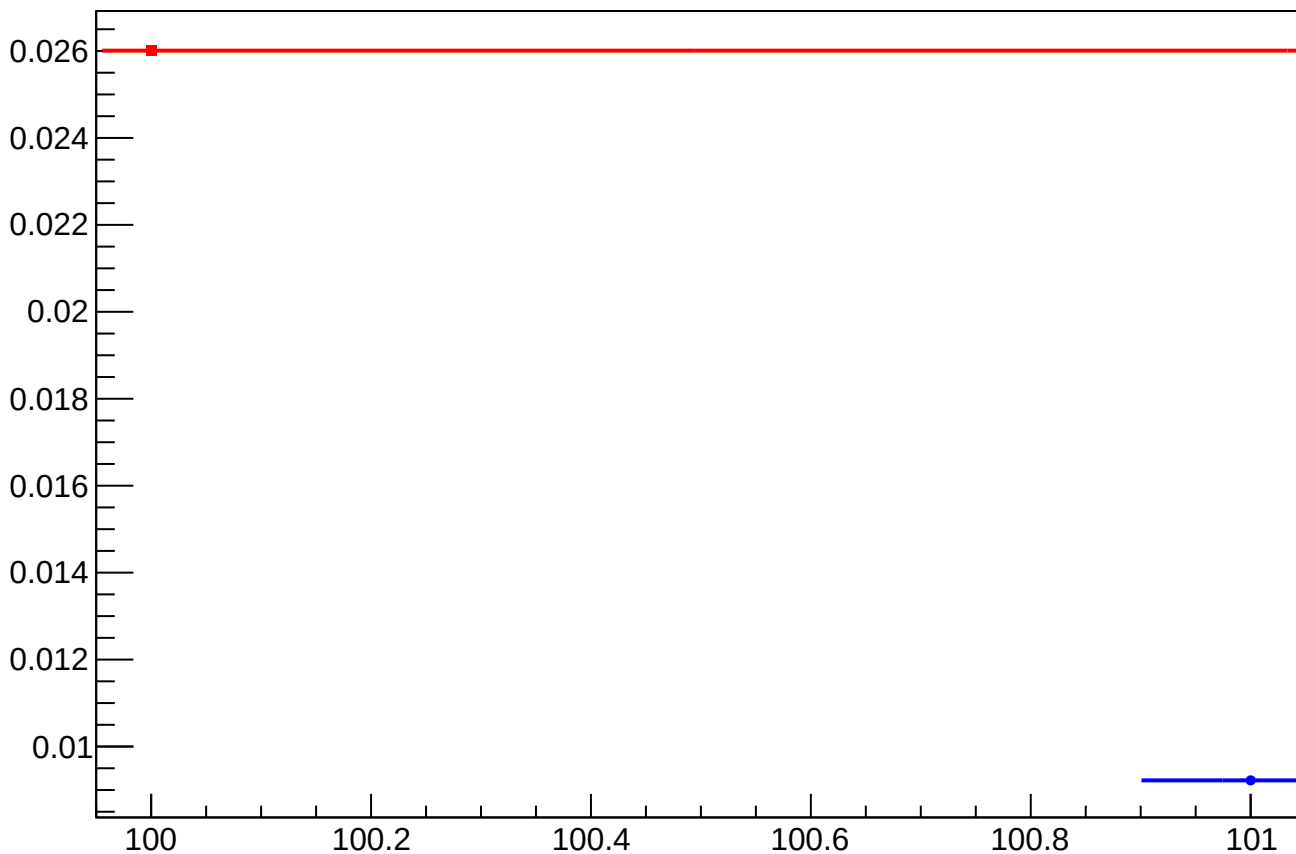
Right: -0.000+/-0.000  $\chi^2$ /NDF: 3.2/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 3.2/1

asym\_atr\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

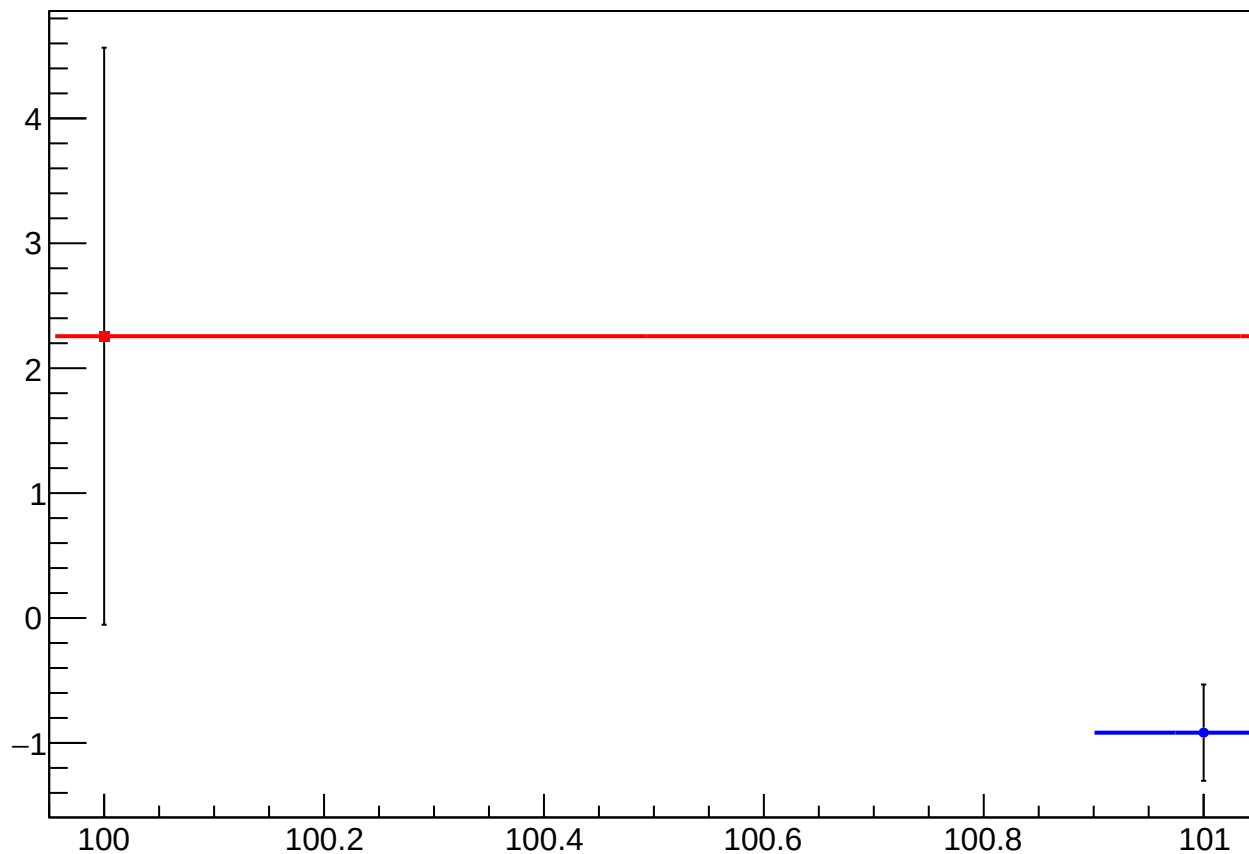
Right: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 59123.9/1

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 59123.9/1

asym\_atr\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.918 $\pm$ 0.385  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.256 $\pm$ 2.310  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

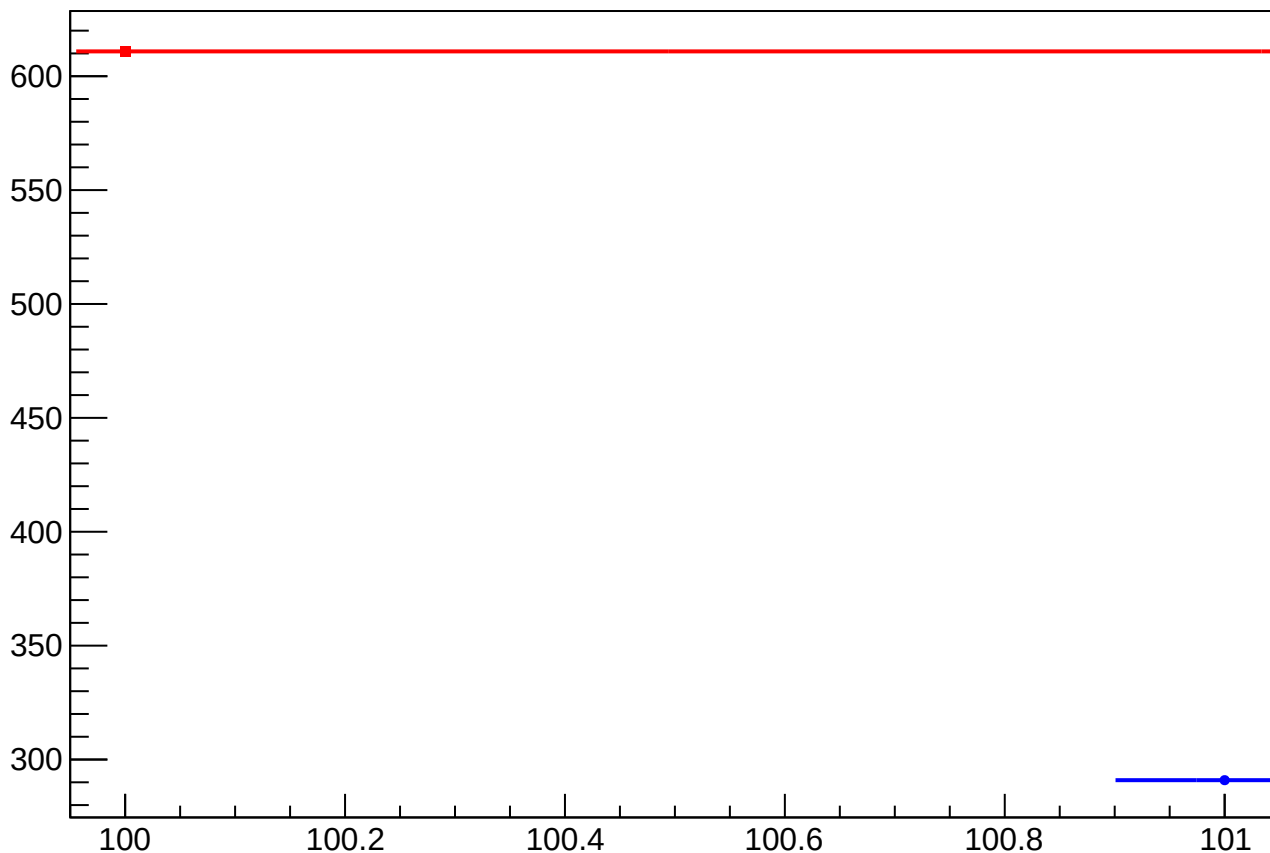
Right: -0.832 $\pm$ 0.380  $\chi^2$ /NDF: 1.8/1

In: -0.918 $\pm$ 0.385  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.832 $\pm$ 0.380  $\chi^2$ /NDF: 1.8/1

asym\_atr\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 290.934 $\pm$ 0.273  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 610.895 $\pm$ 1.633  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

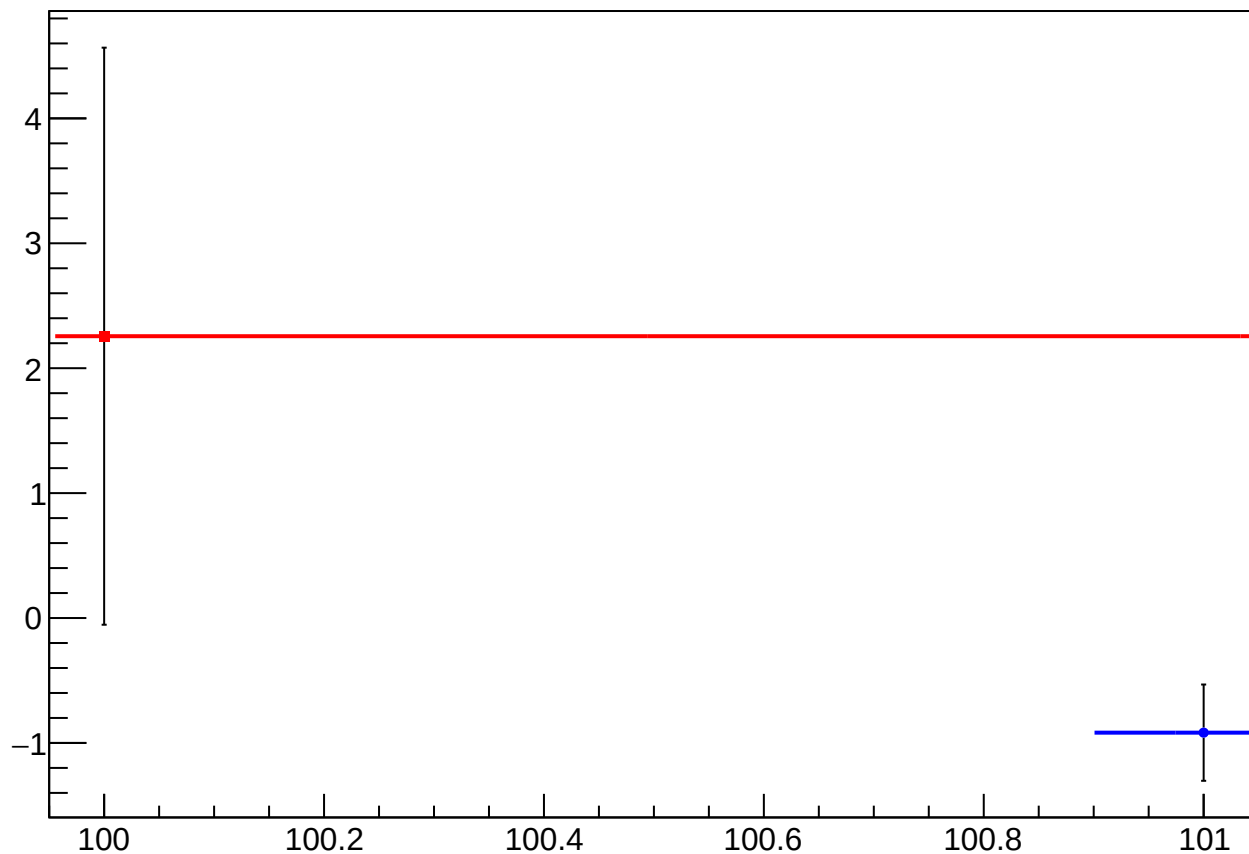
Right: 299.600 $\pm$ 0.269  $\chi^2$ /NDF: 37336.9/1

In: 290.934 $\pm$ 0.273  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 299.600 $\pm$ 0.269  $\chi^2$ /NDF: 37336.9/1

asym\_atr\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.918+/-0.385  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.256+/-2.310  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

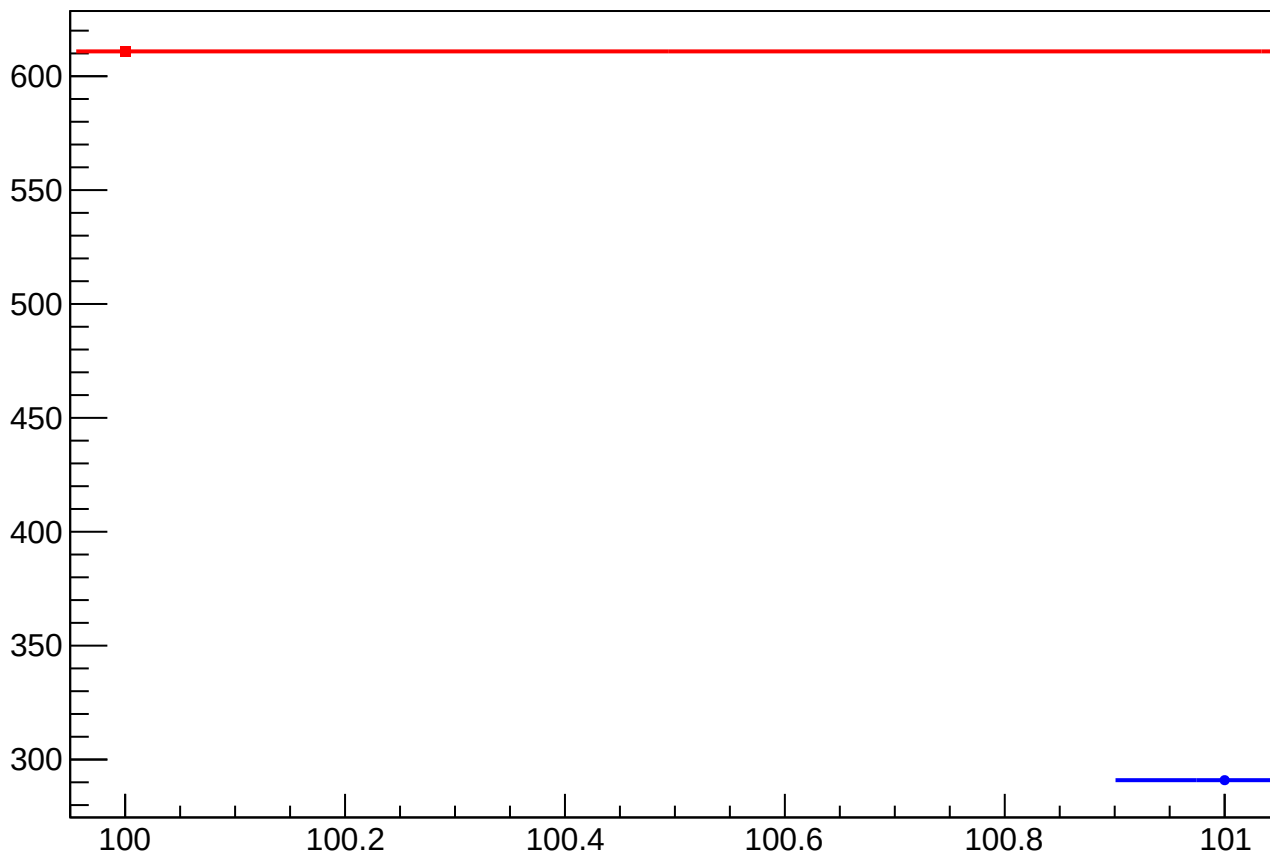
Right: -0.832+/-0.380  $\chi^2/\text{NDF}$ : 1.8/1

In: -0.918+/-0.385  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.832+/-0.380  $\chi^2/\text{NDF}$ : 1.8/1

asym\_atr\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 290.934 $\pm$ 0.273  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 610.895 $\pm$ 1.633  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

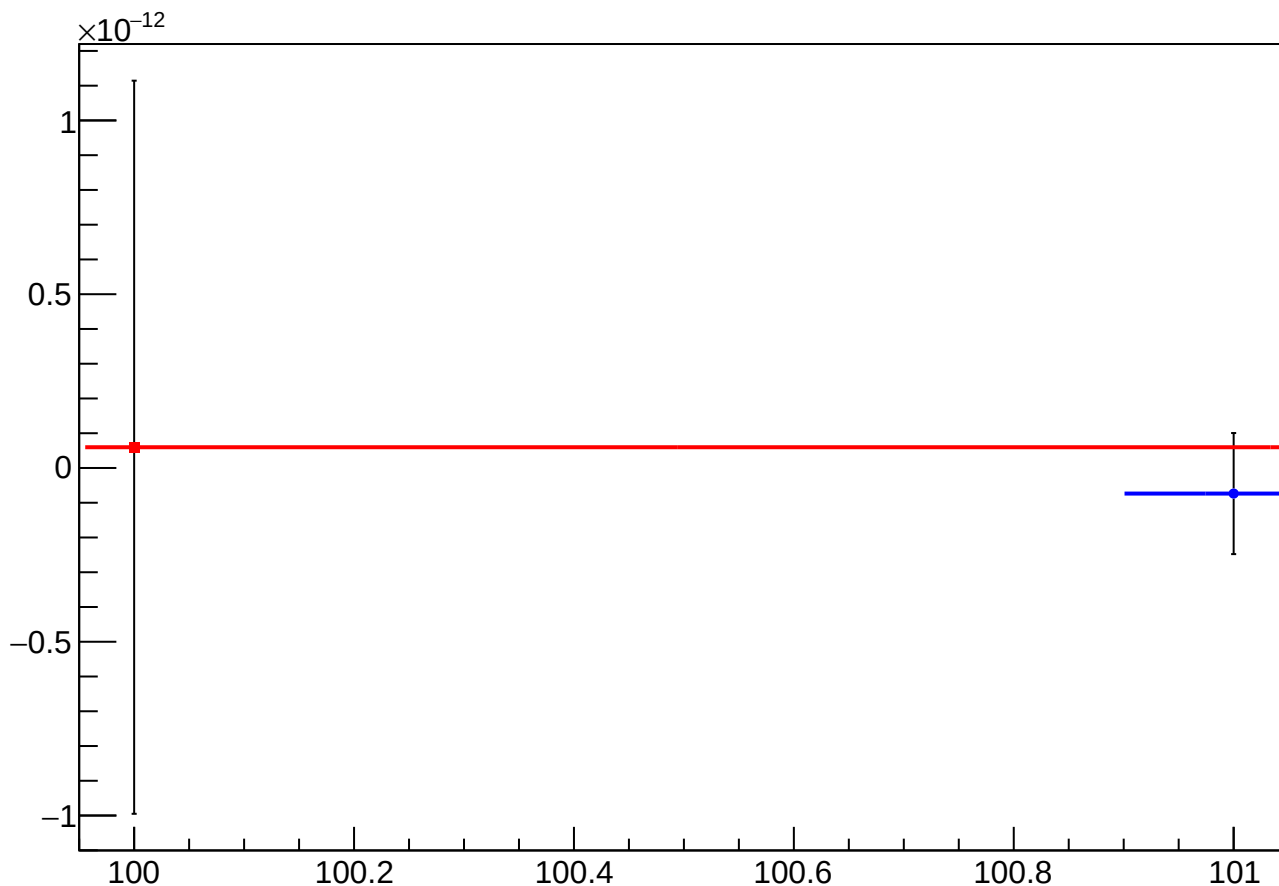
Right: 299.600 $\pm$ 0.269  $\chi^2$ /NDF: 37336.9/1

In: 290.934 $\pm$ 0.273  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 299.600 $\pm$ 0.269  $\chi^2$ /NDF: 37336.9/1

asym\_atr\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

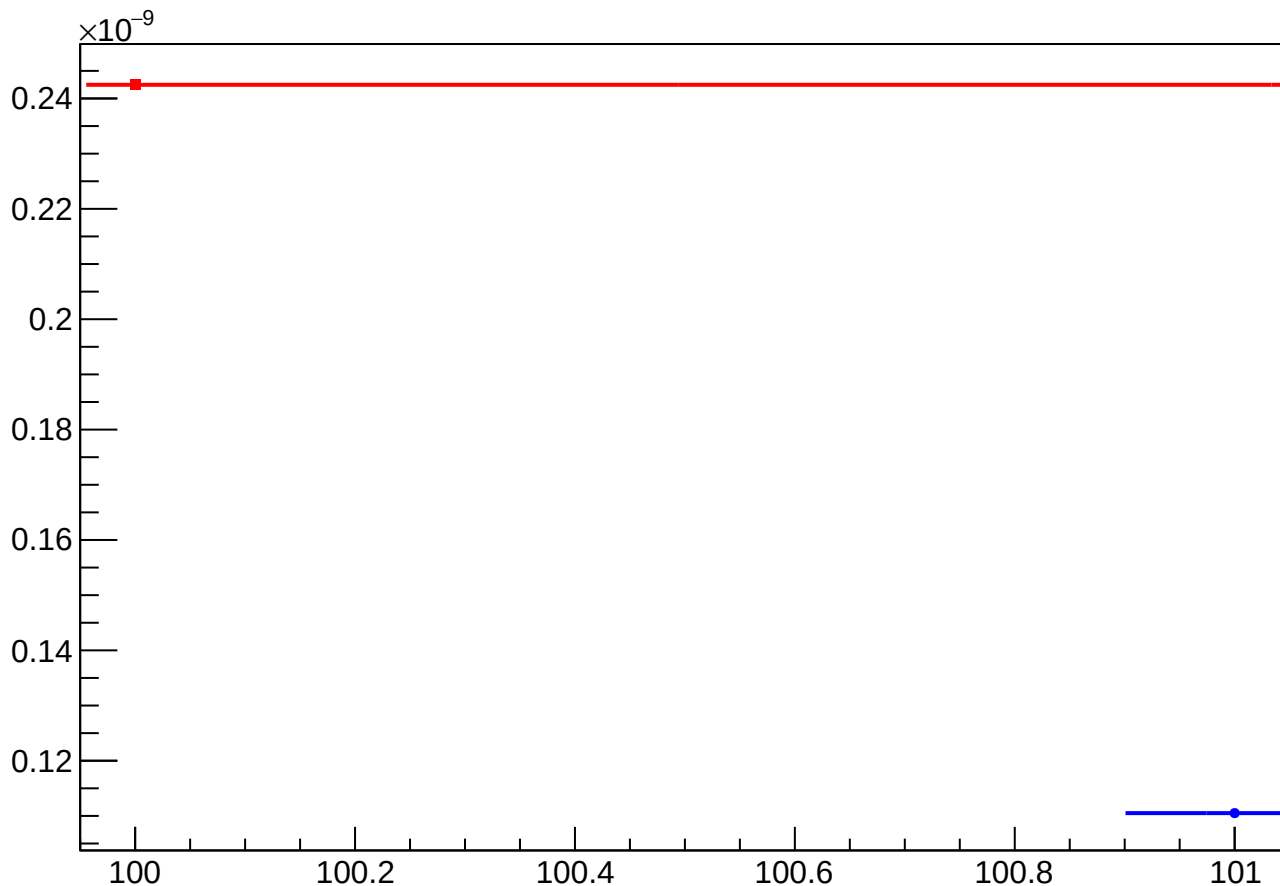
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 30481.8/1

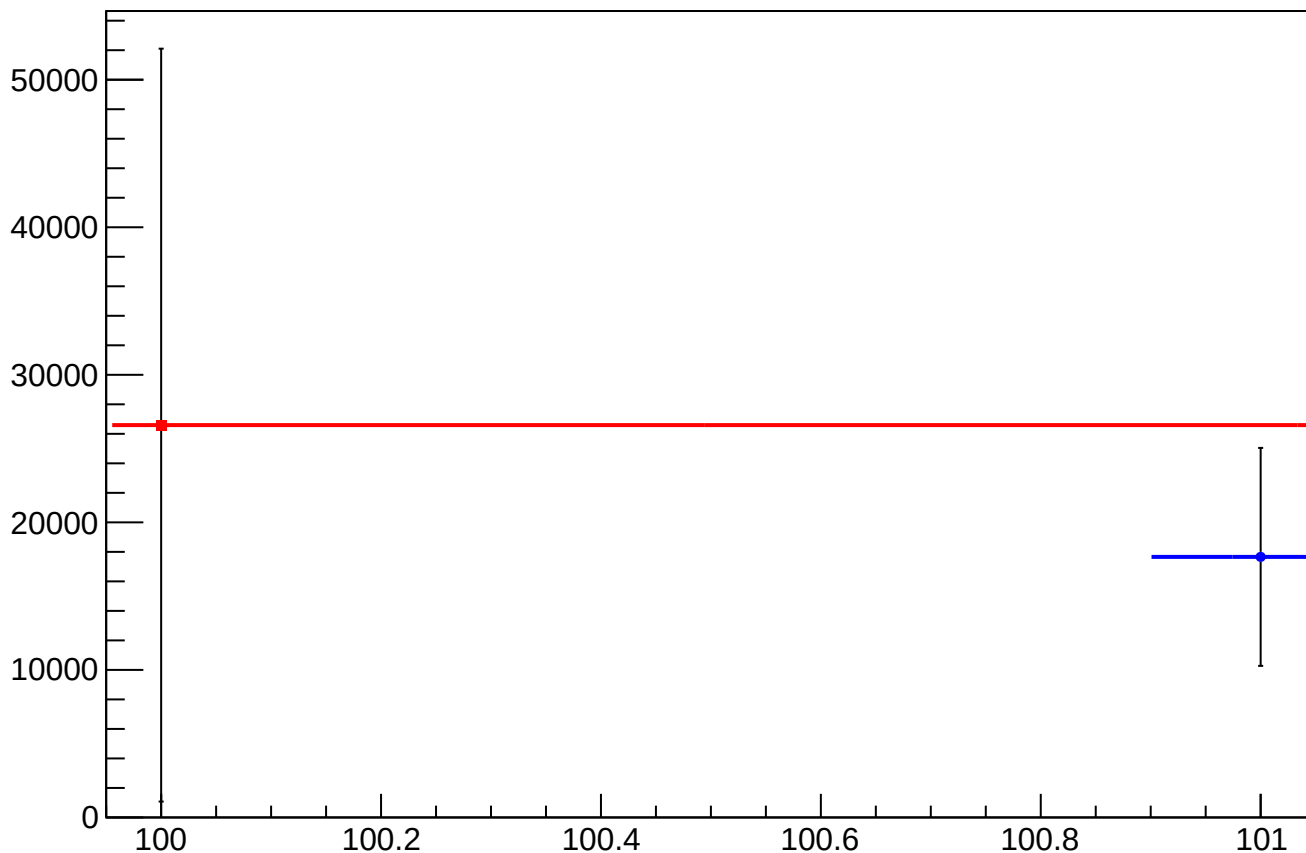
In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 30481.8/1



# reg\_asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: 17659.503+/-7386.971  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26591.121+/-25513.680  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

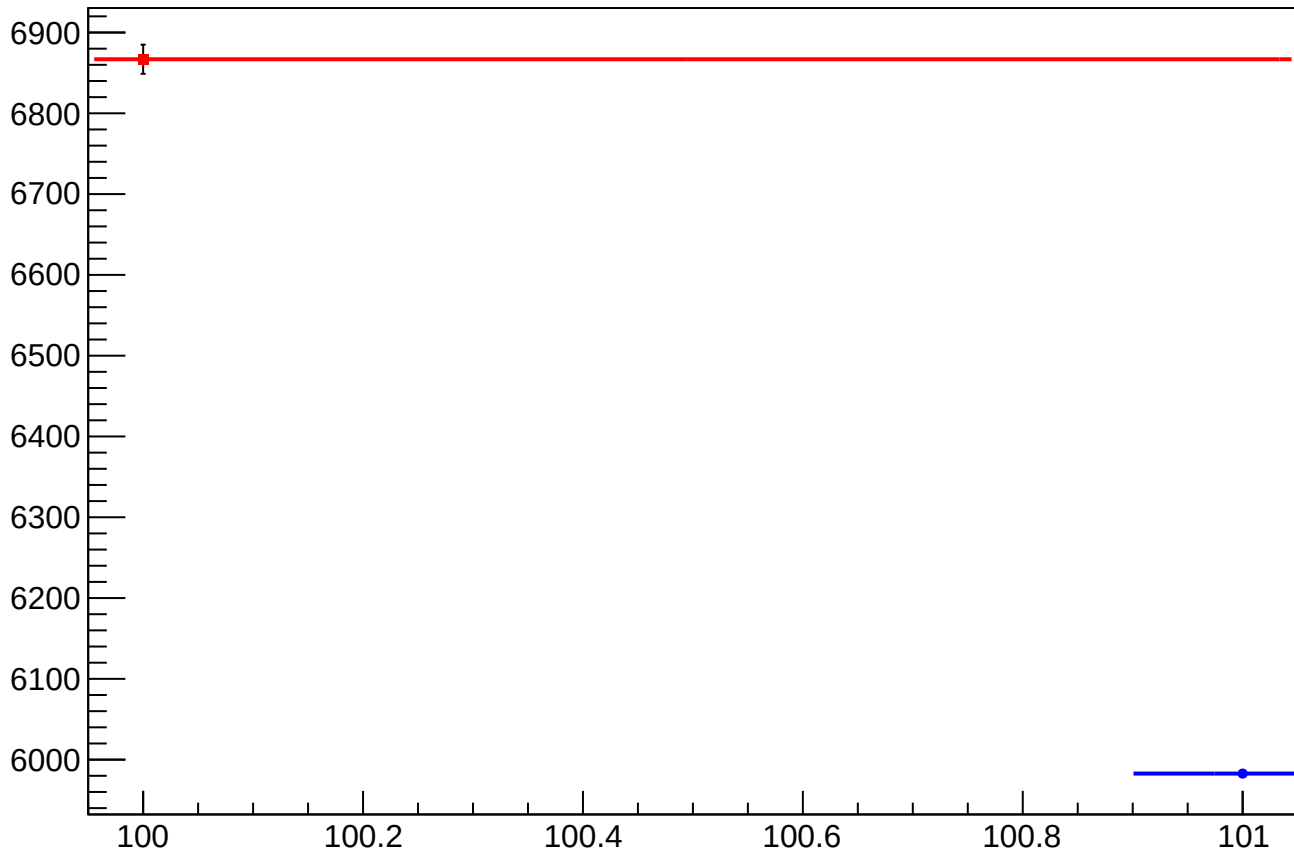
Right: 18350.309+/-7095.554  $\chi^2$ /NDF: 0.1/1

In: 17659.503+/-7386.971  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 18350.309+/-7095.554  $\chi^2$ /NDF: 0.1/1

# reg\_asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 5982.749 $\pm$ 5.223  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6866.911 $\pm$ 18.041  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

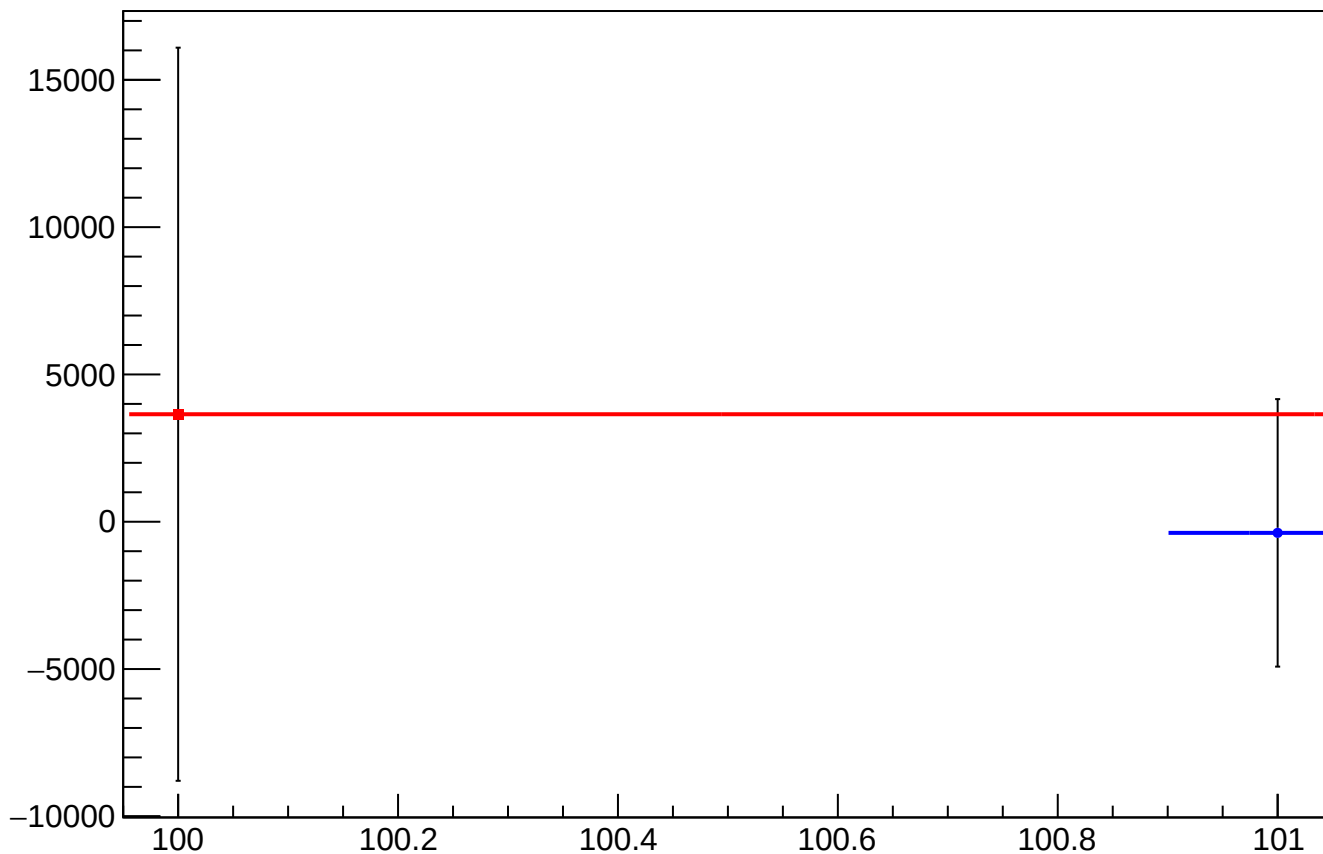
Right: 6051.133 $\pm$ 5.017  $\chi^2$ /NDF: 2216.1/1

In: 5982.749 $\pm$ 5.223  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6051.133 $\pm$ 5.017  $\chi^2$ /NDF: 2216.1/1

asym\_atr\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -377.711+/-4540.229  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3649.443+/-12443.036  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

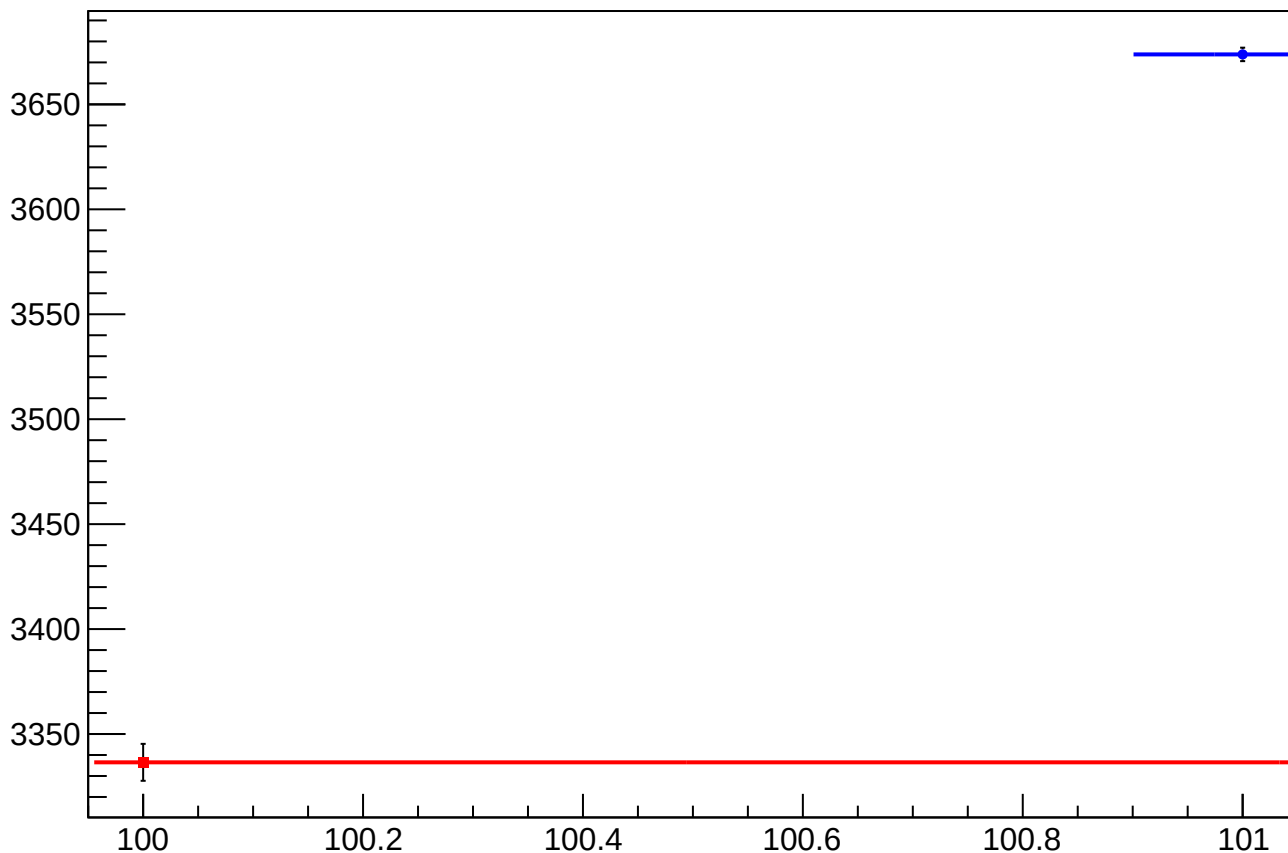
Right: 95.460+/-4265.169  $\chi^2/\text{NDF}$ : 0.1/1

In: -377.711+/-4540.229  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.460+/-4265.169  $\chi^2/\text{NDF}$ : 0.1/1

asym\_atr\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 3673.812 $\pm$ 3.210  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3336.508 $\pm$ 8.799  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

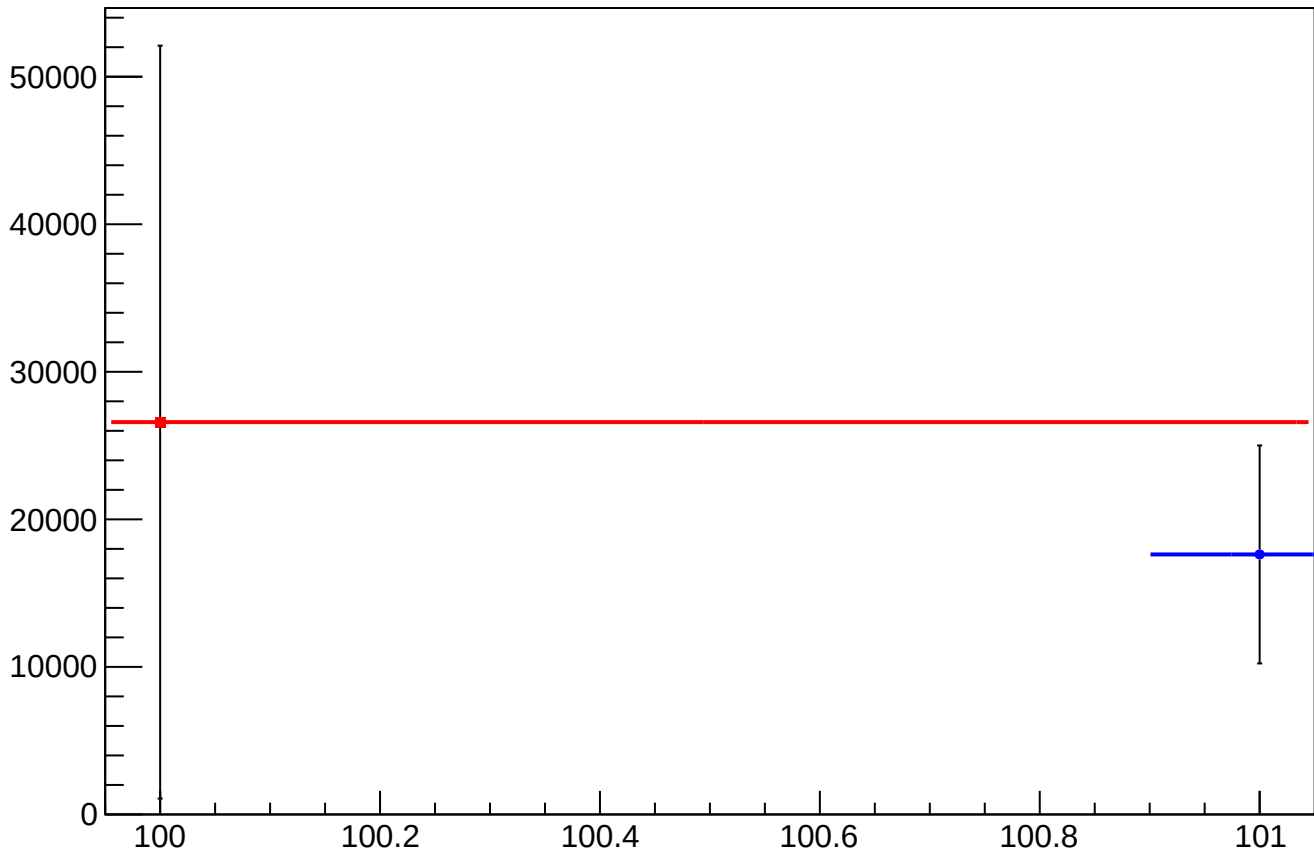
Right: 3634.181 $\pm$ 3.016  $\chi^2/\text{NDF}$ : 1297.0/1

In: 3673.812 $\pm$ 3.210  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3634.181 $\pm$ 3.016  $\chi^2/\text{NDF}$ : 1297.0/1

# cor\_asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: 17622.184+/-7387.002  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26590.981+/-25513.680  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

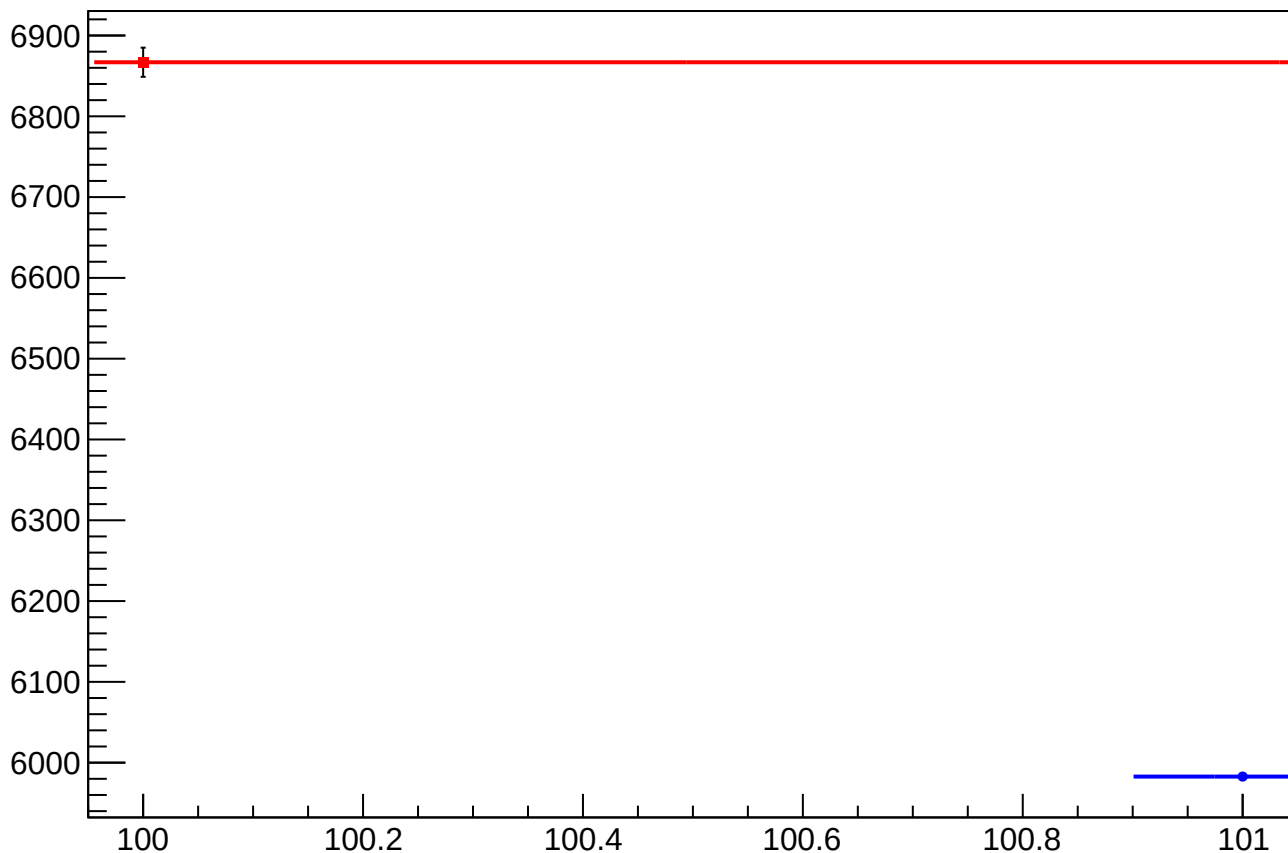
Right: 18315.871+/-7095.581  $\chi^2/\text{NDF}$ : 0.1/1

In: 17622.184+/-7387.002  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18315.871+/-7095.581  $\chi^2/\text{NDF}$ : 0.1/1

# cor\_asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 5982.766 $\pm$ 5.223  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6866.911 $\pm$ 18.041  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

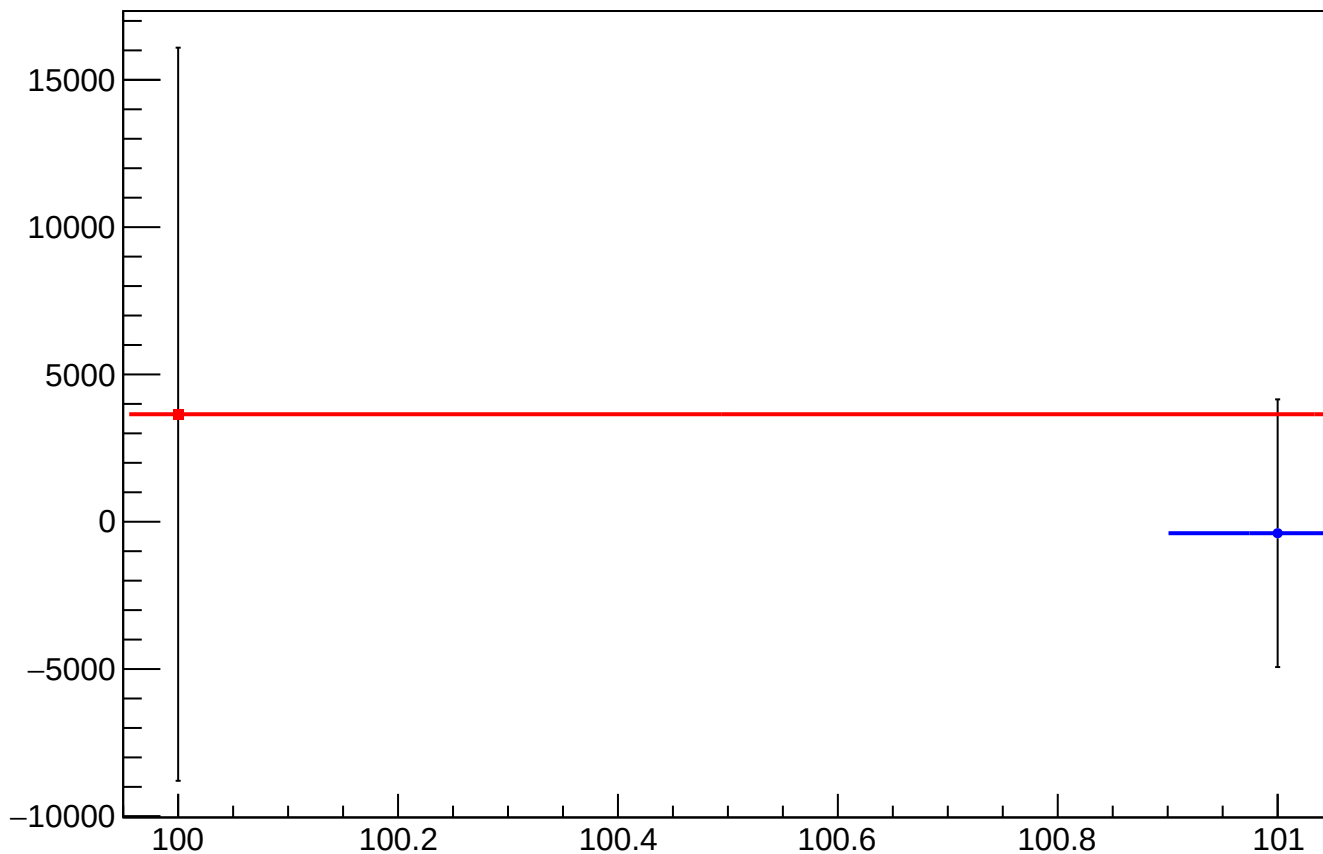
Right: 6051.150 $\pm$ 5.017  $\chi^2$ /NDF: 2216.0/1

In: 5982.766 $\pm$ 5.223  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6051.150 $\pm$ 5.017  $\chi^2$ /NDF: 2216.0/1

asym\_atr\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -389.400+/-4543.586  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3649.268+/-12443.009  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

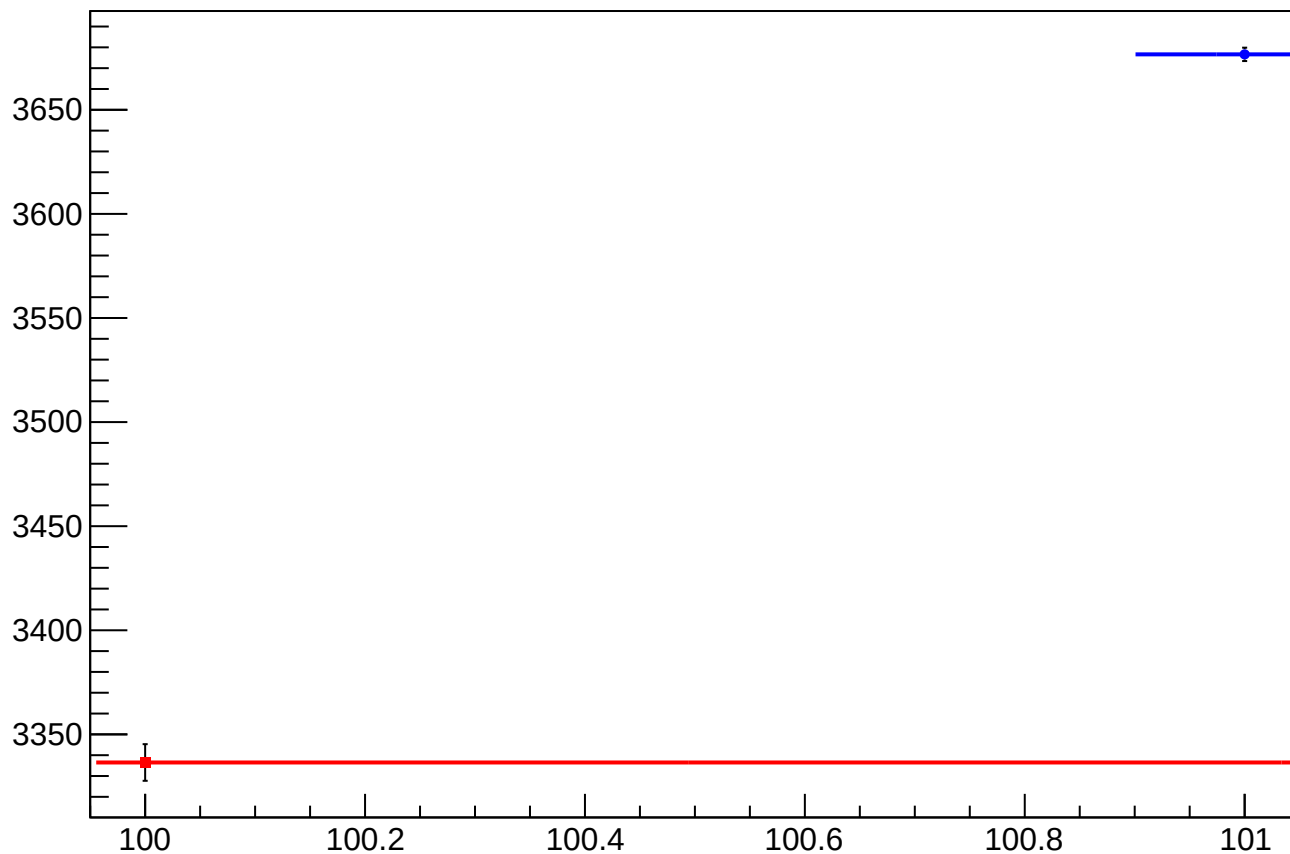
Right: 85.745+/-4267.951  $\chi^2/\text{NDF}$ : 0.1/1

In: -389.400+/-4543.586  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.745+/-4267.951  $\chi^2/\text{NDF}$ : 0.1/1

asym\_atr\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 3676.632 $\pm$ 3.213  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3336.500 $\pm$ 8.799  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 3636.616 $\pm$ 3.018  $\chi^2$ /NDF: 1318.6/1

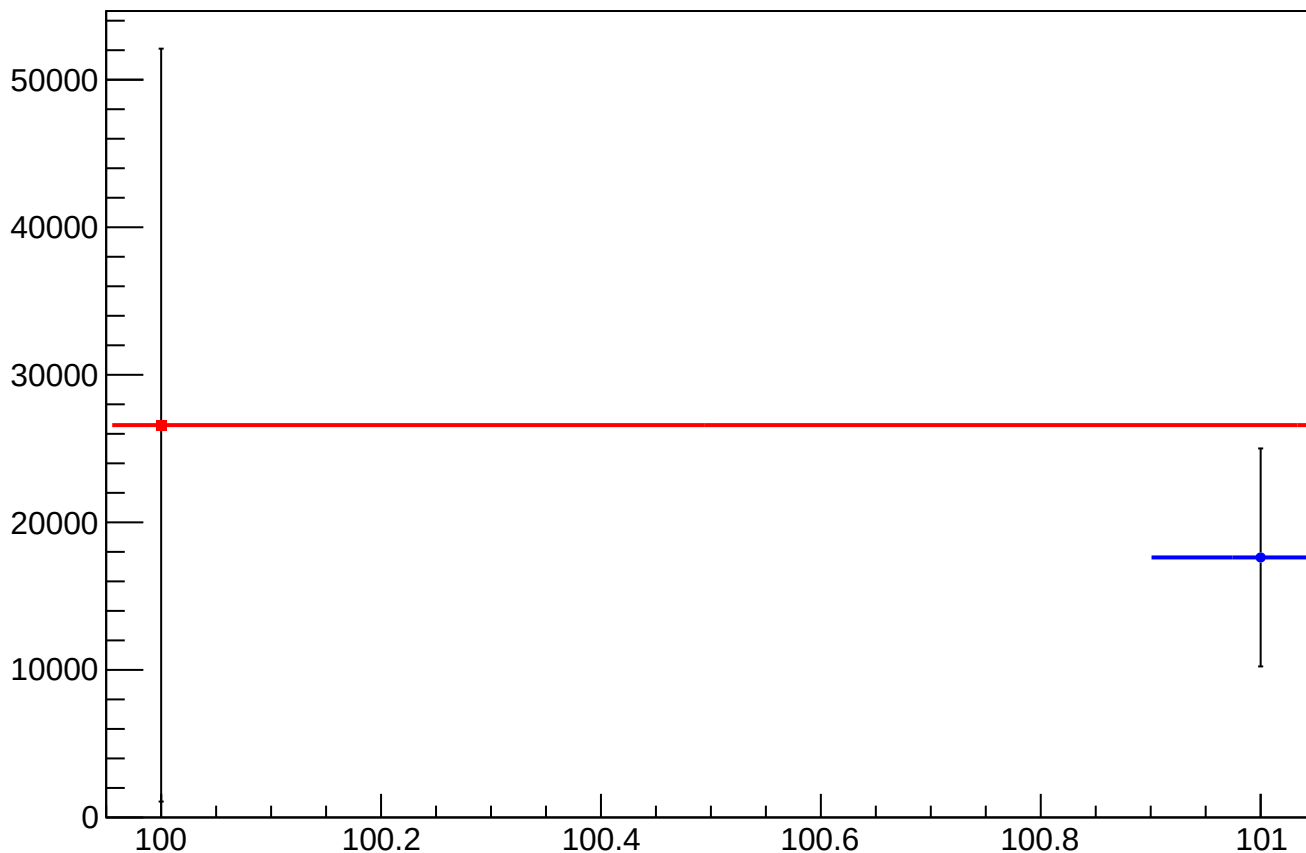
In: 3676.632 $\pm$ 3.213  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3636.616 $\pm$ 3.018  $\chi^2$ /NDF: 1318.6/1



eigen\_cor\_asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: 17622.184 $\pm$ 7387.002  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26590.981 $\pm$ 25513.680  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

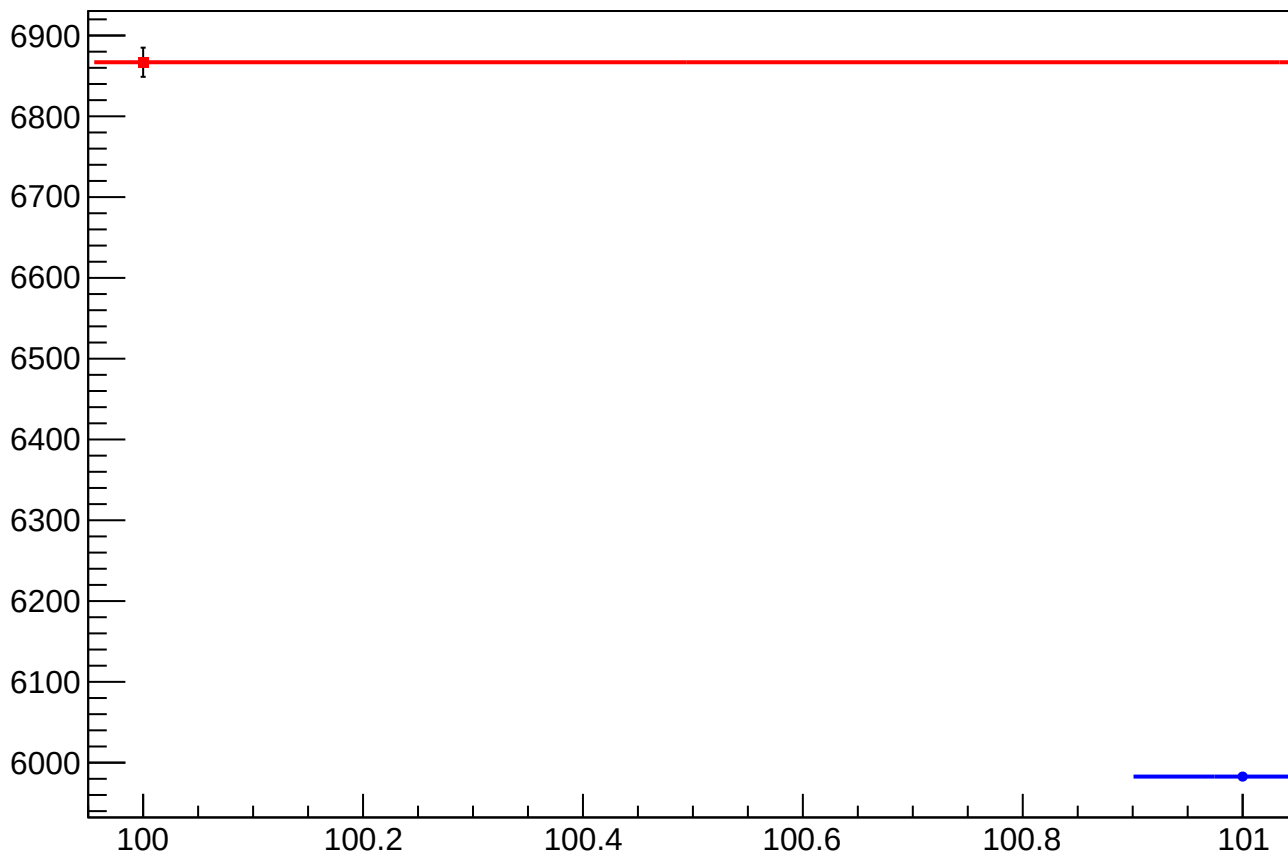
Right: 18315.871 $\pm$ 7095.581  $\chi^2/\text{NDF}$ : 0.1/1

In: 17622.184 $\pm$ 7387.002  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18315.871 $\pm$ 7095.581  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 5982.766 $\pm$ 5.223  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6866.911 $\pm$ 18.041  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

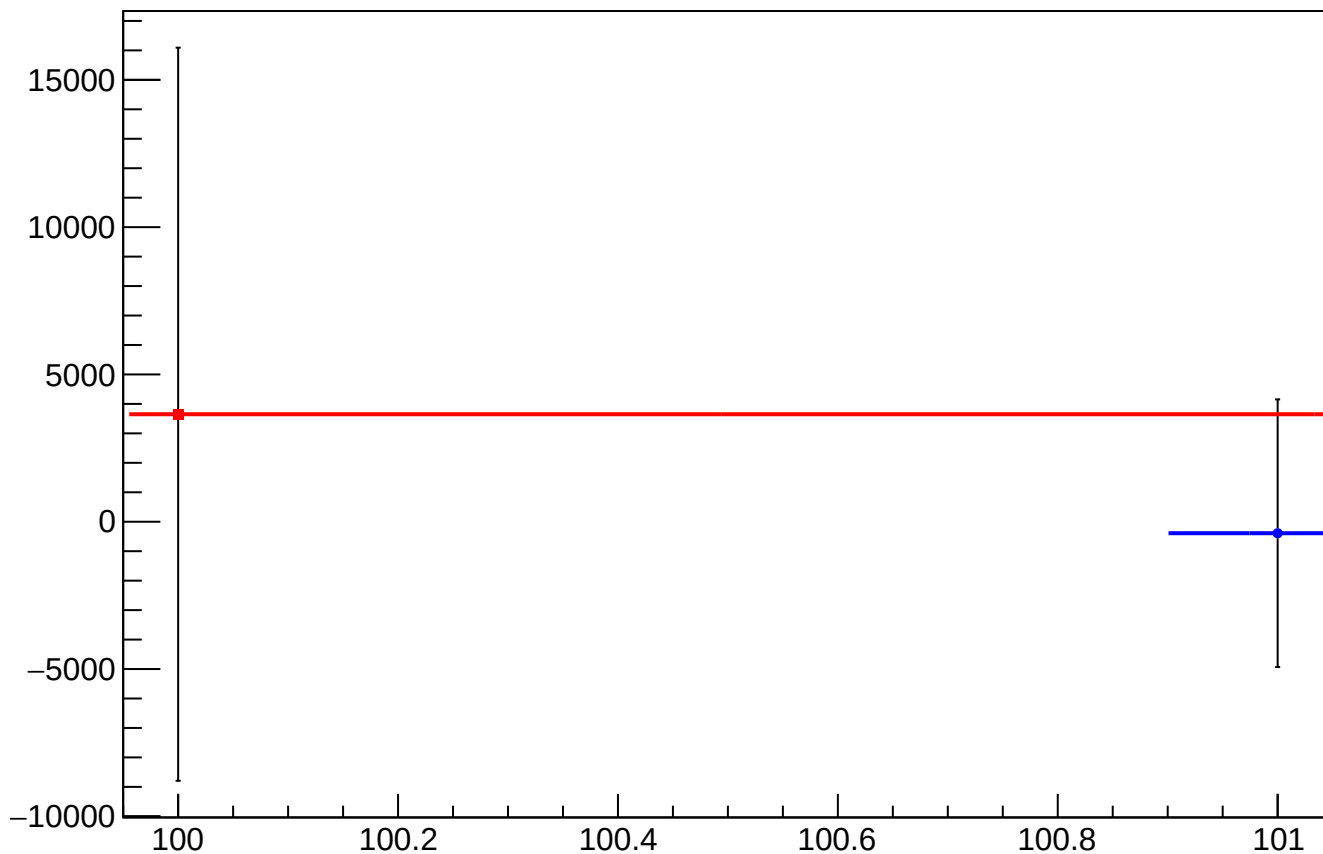
Right: 6051.150 $\pm$ 5.017  $\chi^2$ /NDF: 2216.0/1

In: 5982.766 $\pm$ 5.223  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6051.150 $\pm$ 5.017  $\chi^2$ /NDF: 2216.0/1

asym\_atr\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -389.400+/-4543.586  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3649.268+/-12443.009  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

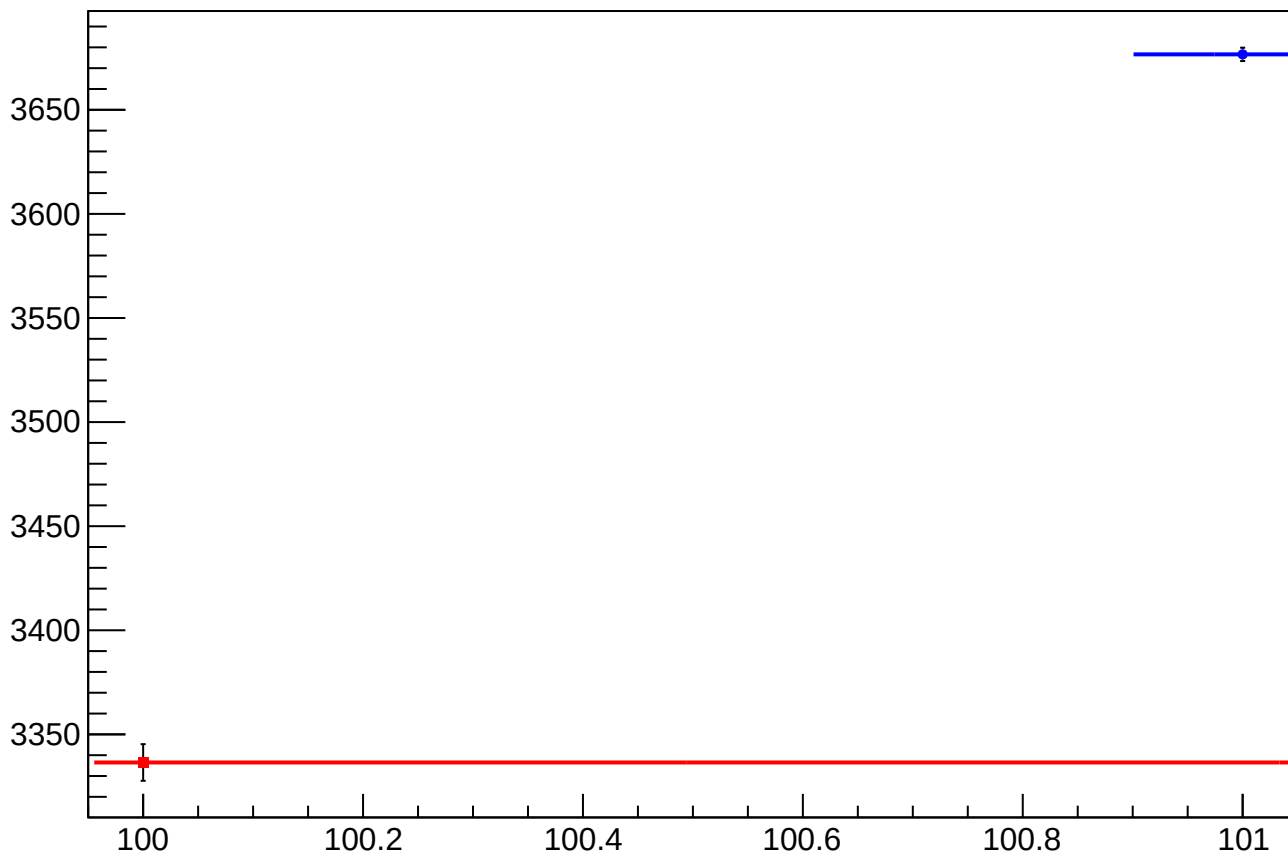
Right: 85.745+/-4267.951  $\chi^2/\text{NDF}$ : 0.1/1

In: -389.400+/-4543.586  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.745+/-4267.951  $\chi^2/\text{NDF}$ : 0.1/1

asym\_atr\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 3676.632 $\pm$ 3.213  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3336.500 $\pm$ 8.799  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

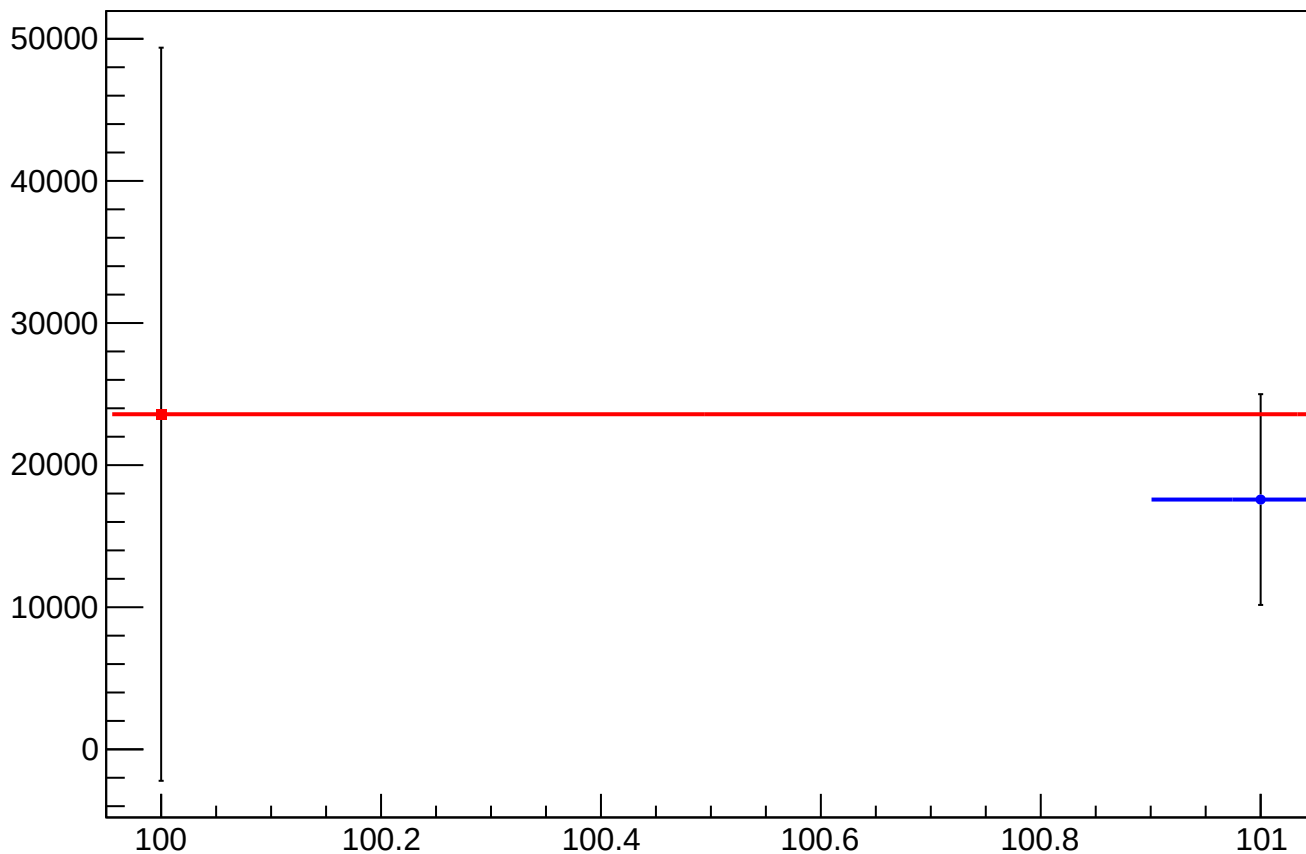
Right: 3636.616 $\pm$ 3.018  $\chi^2$ /NDF: 1318.6/1

In: 3676.632 $\pm$ 3.213  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3636.616 $\pm$ 3.018  $\chi^2$ /NDF: 1318.6/1

# dit\_asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: 17577.830+/-7416.242  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23581.666+/-25795.441  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

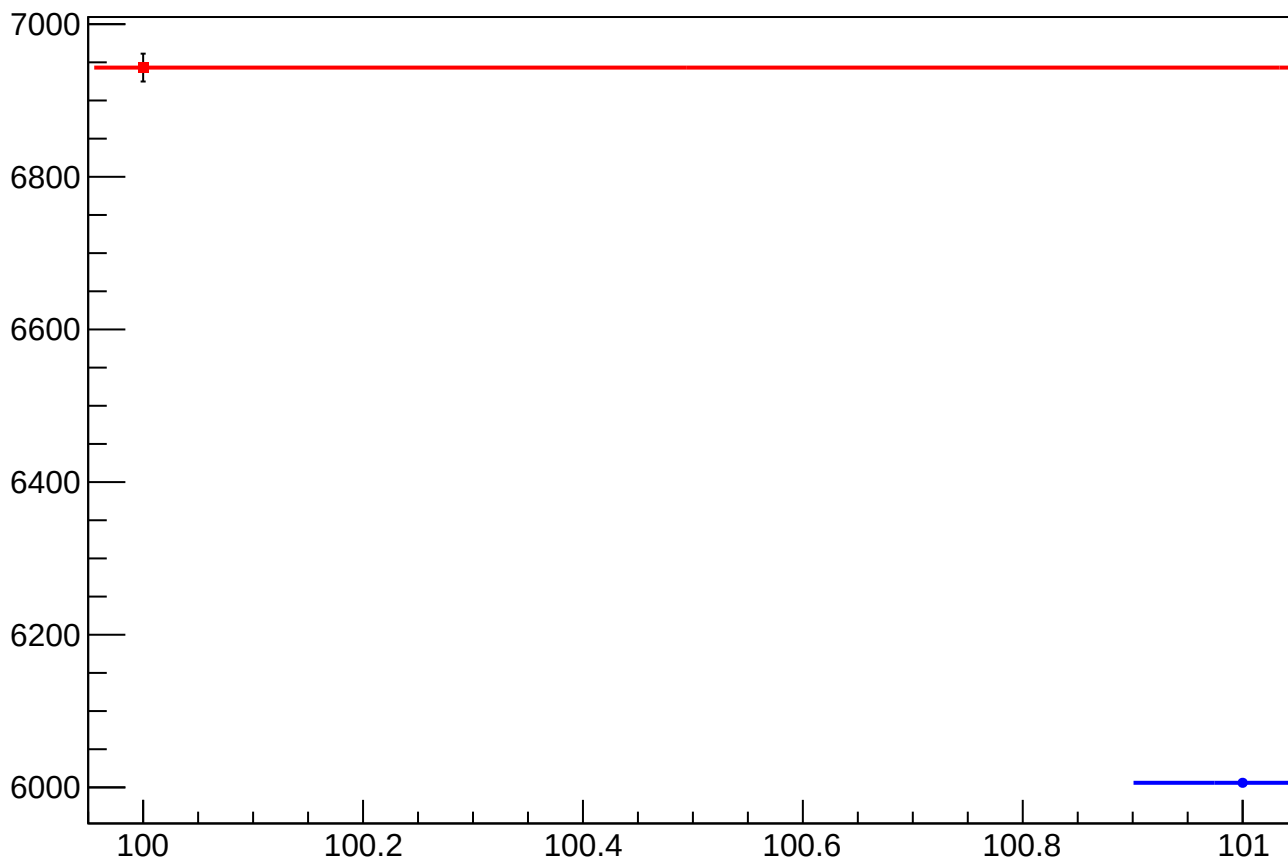
Right: 18036.204+/-7127.518  $\chi^2/\text{NDF}$ : 0.1/1

In: 17577.830+/-7416.242  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18036.204+/-7127.518  $\chi^2/\text{NDF}$ : 0.1/1

# dit\_asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 6006.017 $\pm$ 5.244  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6943.099 $\pm$ 18.240  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

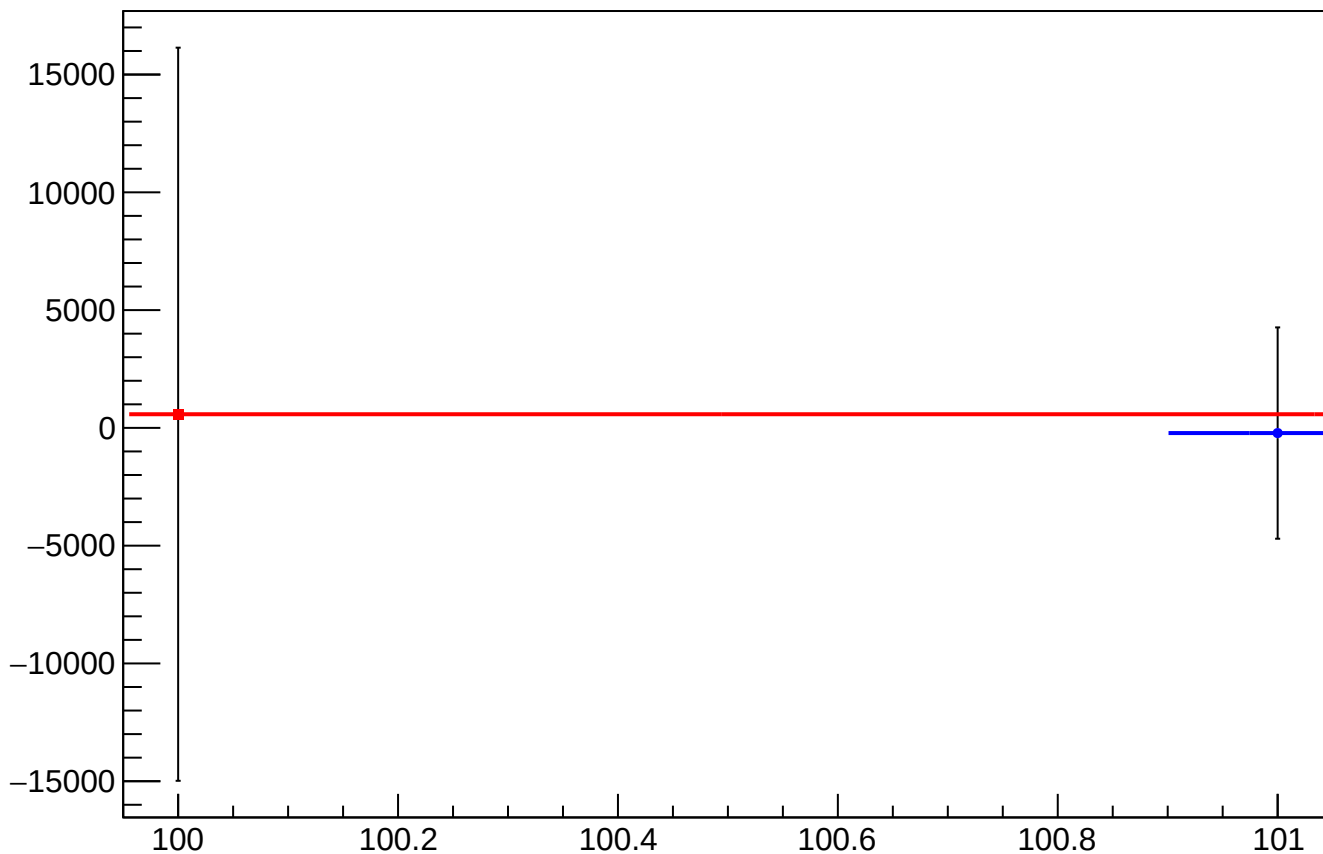
Right: 6077.560 $\pm$ 5.040  $\chi^2/\text{NDF}$ : 2437.9/1

In: 6006.017 $\pm$ 5.244  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6077.560 $\pm$ 5.040  $\chi^2/\text{NDF}$ : 2437.9/1

asym\_atr\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -220.111+/-4485.660  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 579.369+/-15561.561  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

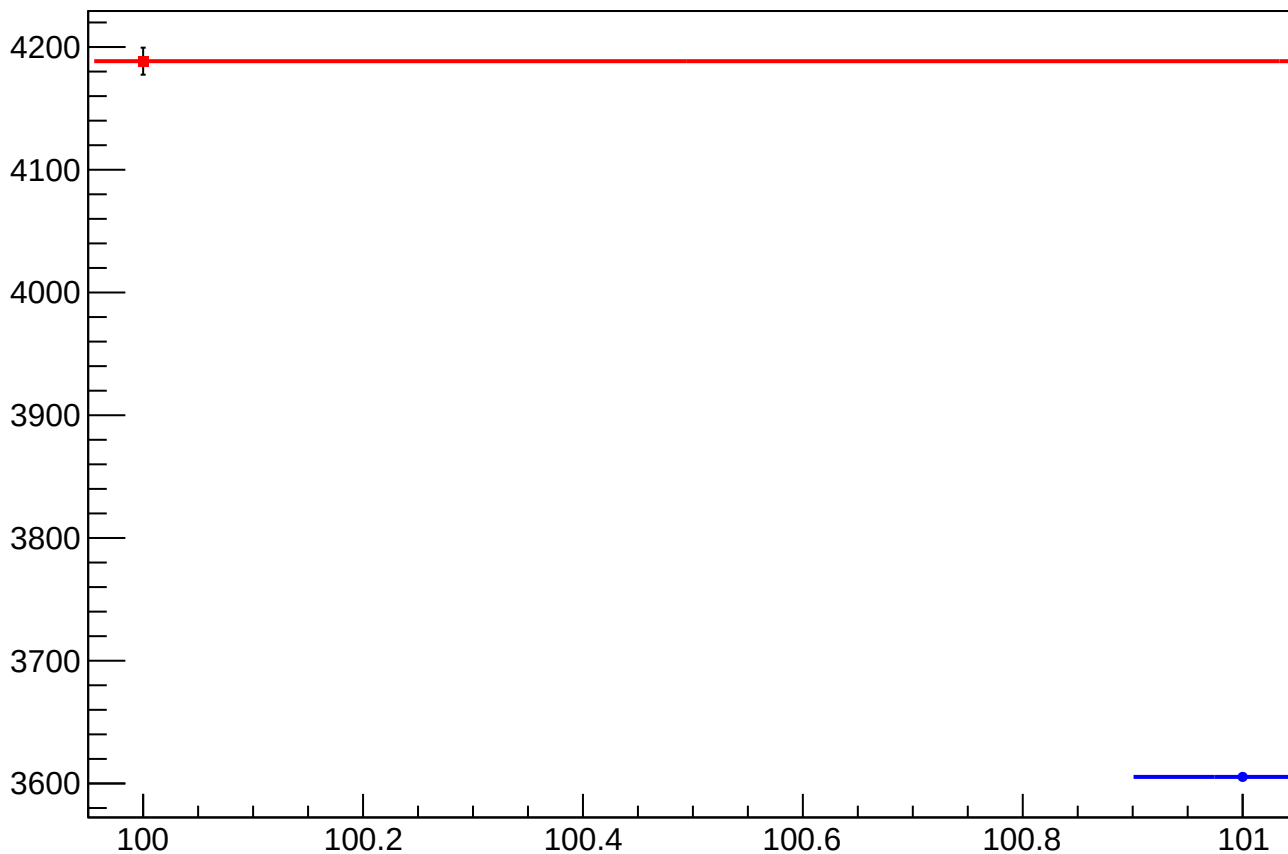
Right: -158.778+/-4310.167  $\chi^2/\text{NDF}$ : 0.0/1

In: -220.111+/-4485.660  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -158.778+/-4310.167  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 3605.348+/-3.172  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4188.463+/-11.004  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 3650.082+/-3.048  $\chi^2/\text{NDF}$ : 2592.8/1

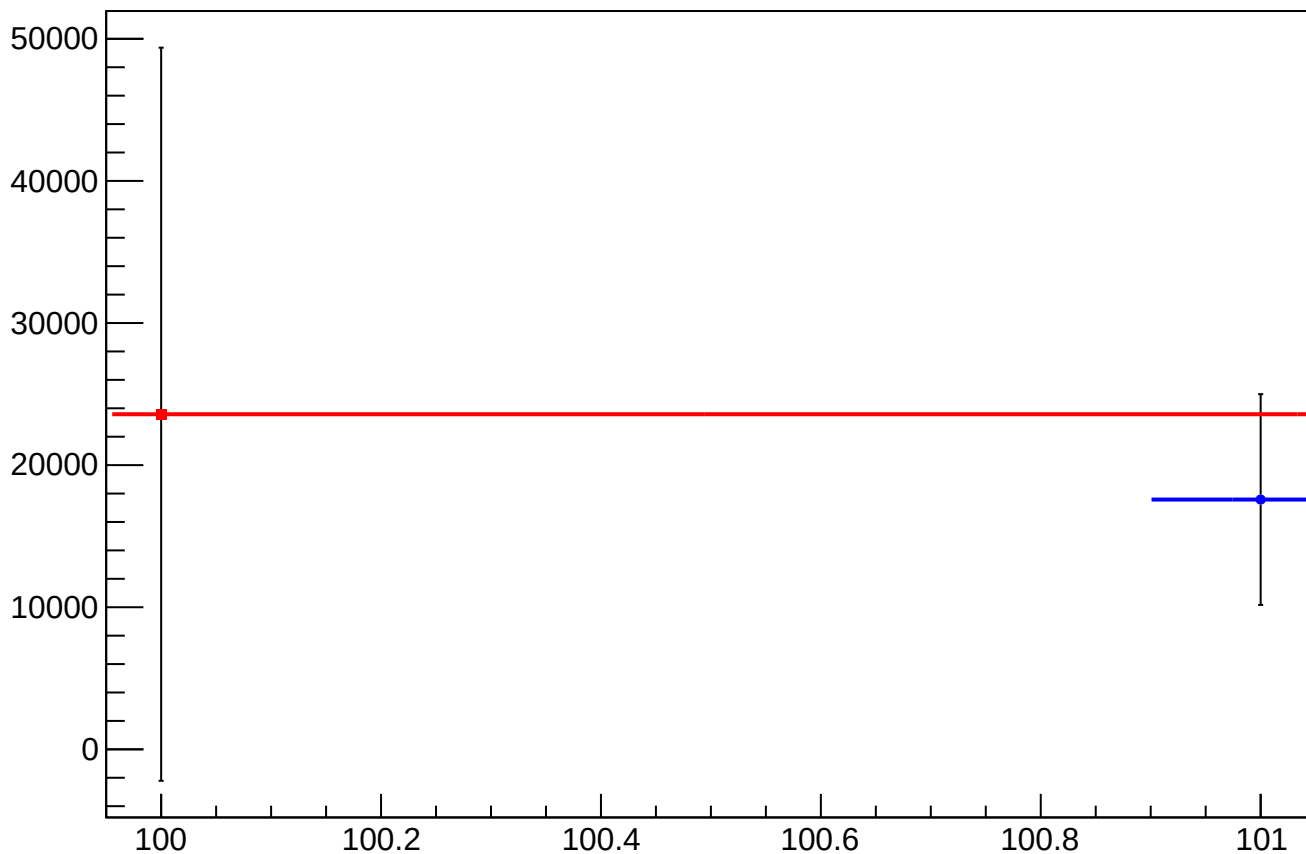
In: 3605.348+/-3.172  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3650.082+/-3.048  $\chi^2/\text{NDF}$ : 2592.8/1



eigen\_dit\_asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: 17577.874+/-7416.241  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23581.488+/-25795.439  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

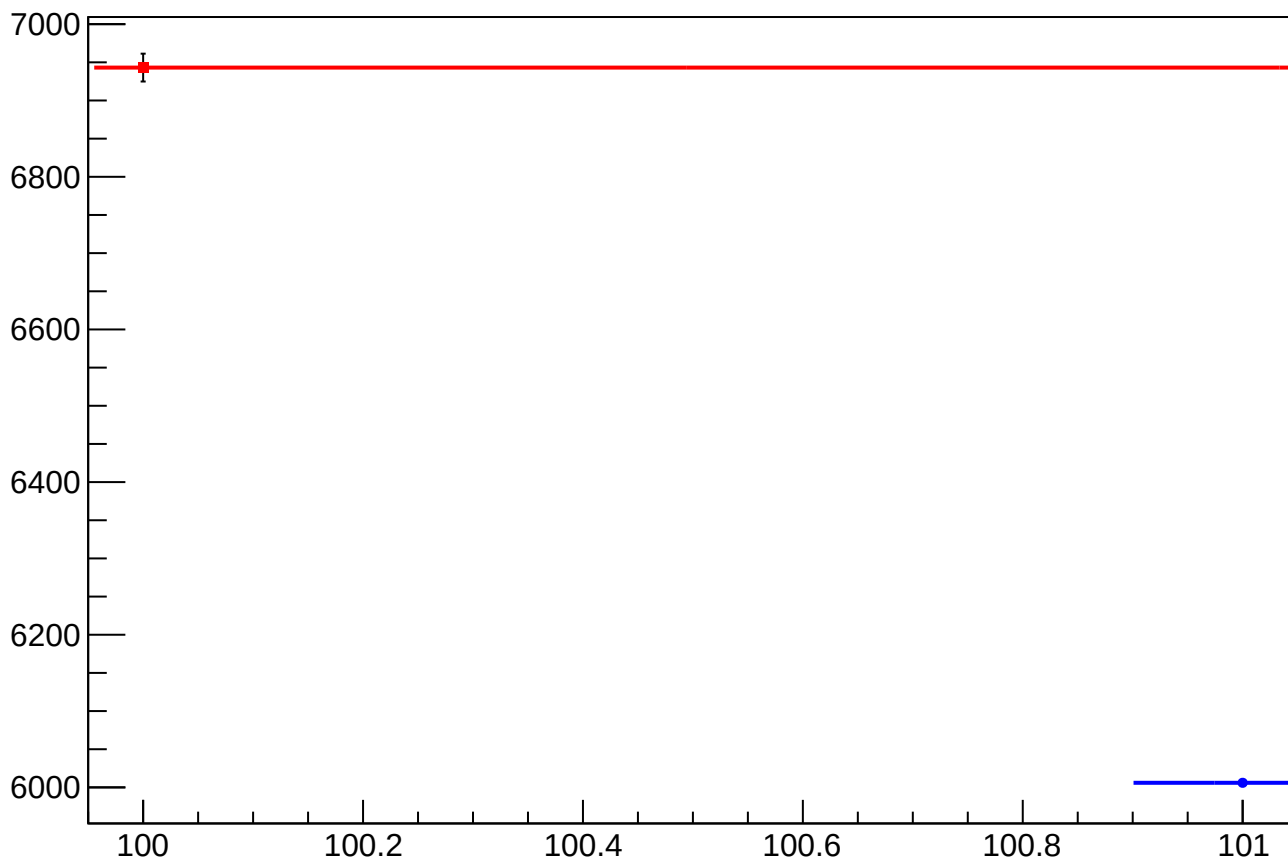
Right: 18036.230+/-7127.518  $\chi^2/\text{NDF}$ : 0.1/1

In: 17577.874+/-7416.241  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18036.230+/-7127.518  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_dit\_asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 6006.017+/-5.244  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6943.098+/-18.240  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

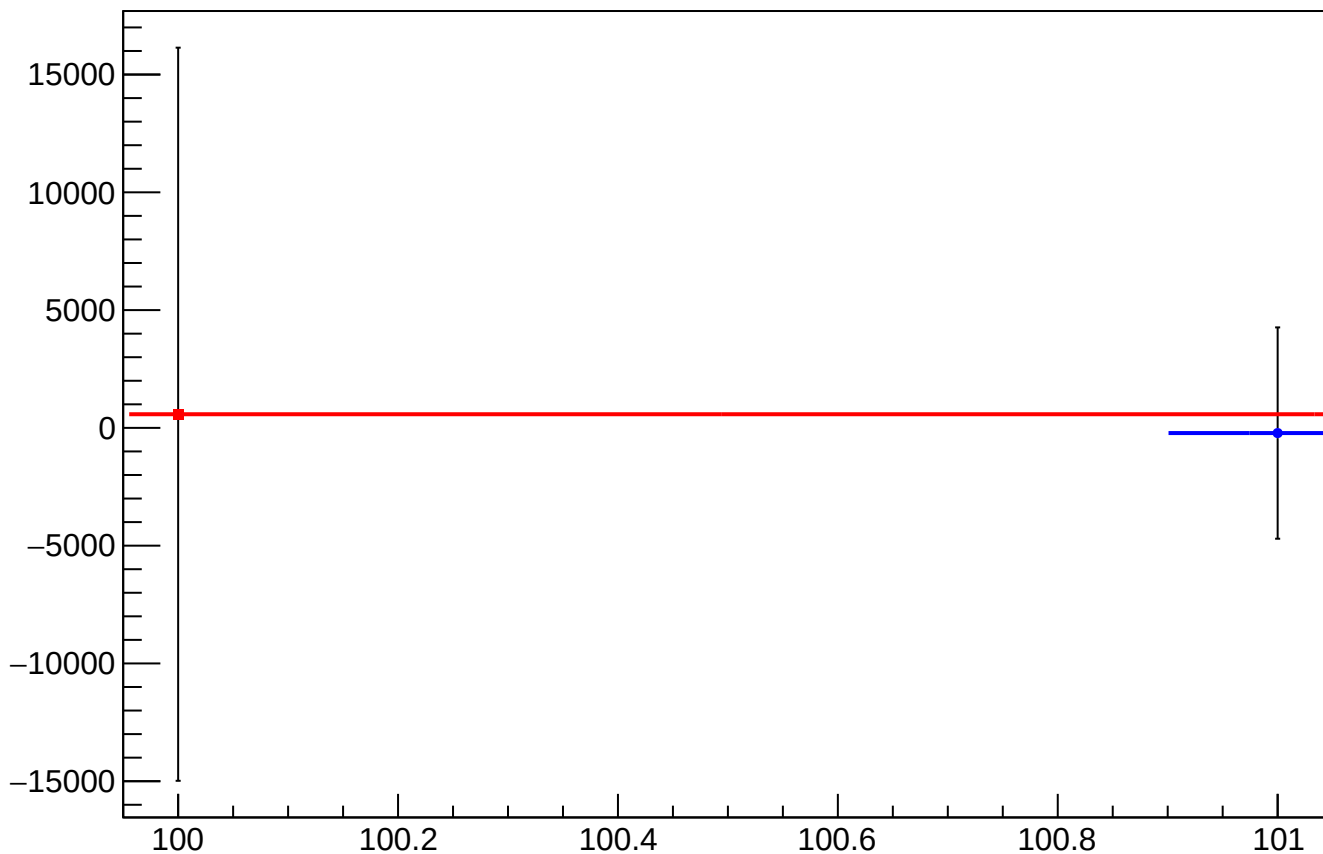
Right: 6077.560+/-5.040  $\chi^2/\text{NDF}$ : 2437.9/1

In: 6006.017+/-5.244  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6077.560+/-5.040  $\chi^2/\text{NDF}$ : 2437.9/1

asym\_atr\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -220.077+/-4485.653  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 579.192+/-15561.504  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

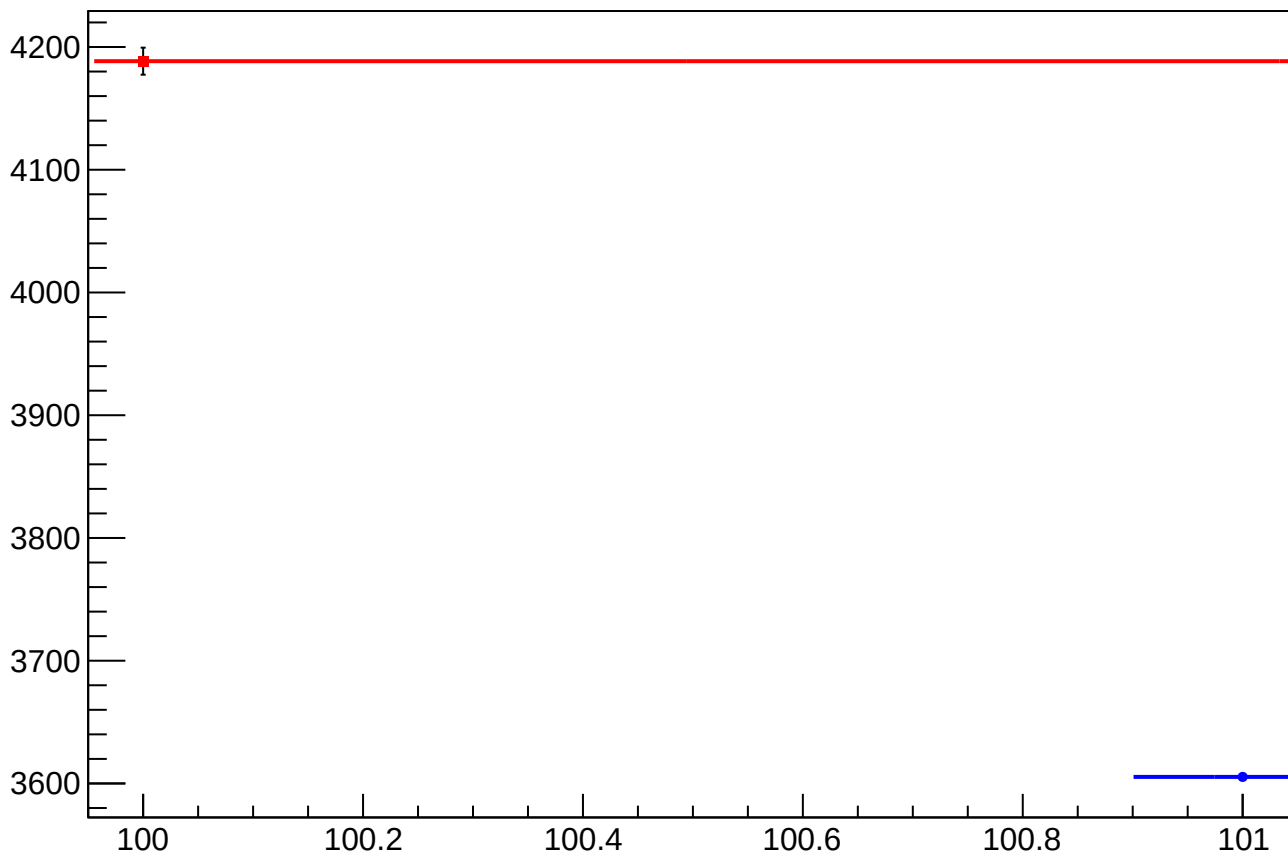
Right: -158.761+/-4310.161  $\chi^2/\text{NDF}$ : 0.0/1

In: -220.077+/-4485.653  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -158.761+/-4310.161  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 3605.343±/3.172  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000±/0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 4188.448±/11.004  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000±/0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

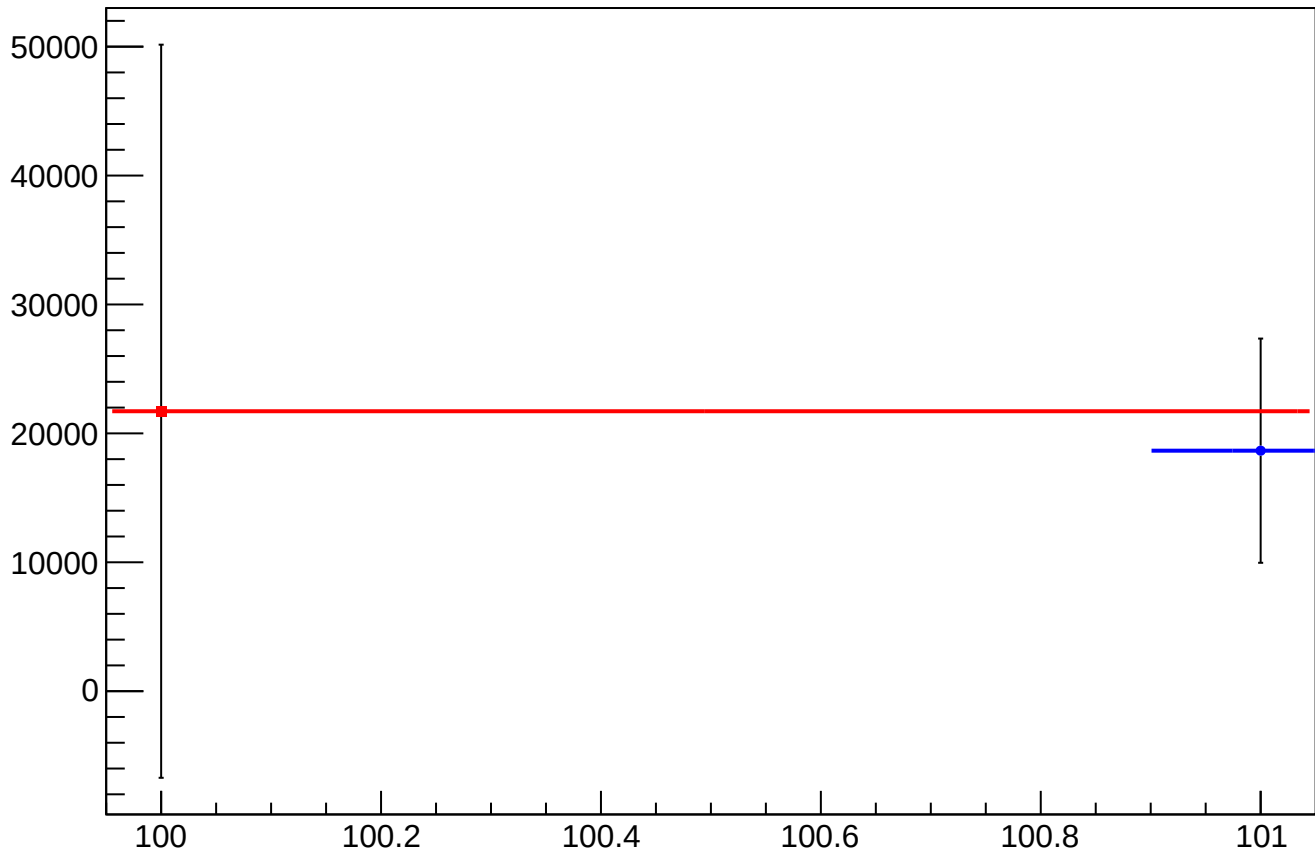
Right: 3650.076±/3.048  $\chi^2/\text{NDF}$ : 2592.7/1

In: 3605.343±/3.172  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000±/0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 3650.076±/3.048  $\chi^2/\text{NDF}$ : 2592.7/1

# asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: 18657.135+/-8696.832  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21717.463+/-28436.347  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

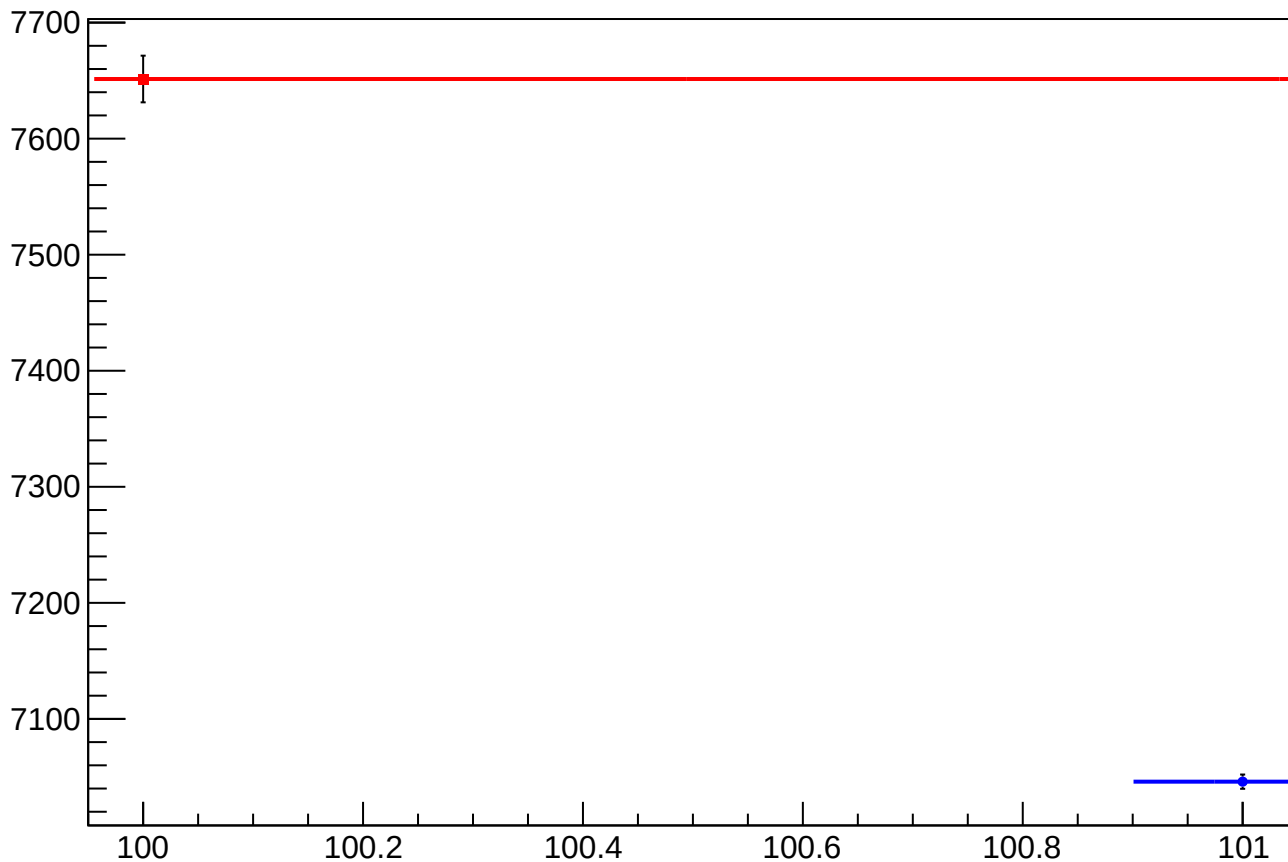
Right: 18918.899+/-8316.579  $\chi^2/\text{NDF}$ : 0.0/1

In: 18657.135+/-8696.832  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18918.899+/-8316.579  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 7045.926 $\pm$ 6.150  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7651.389 $\pm$ 20.108  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

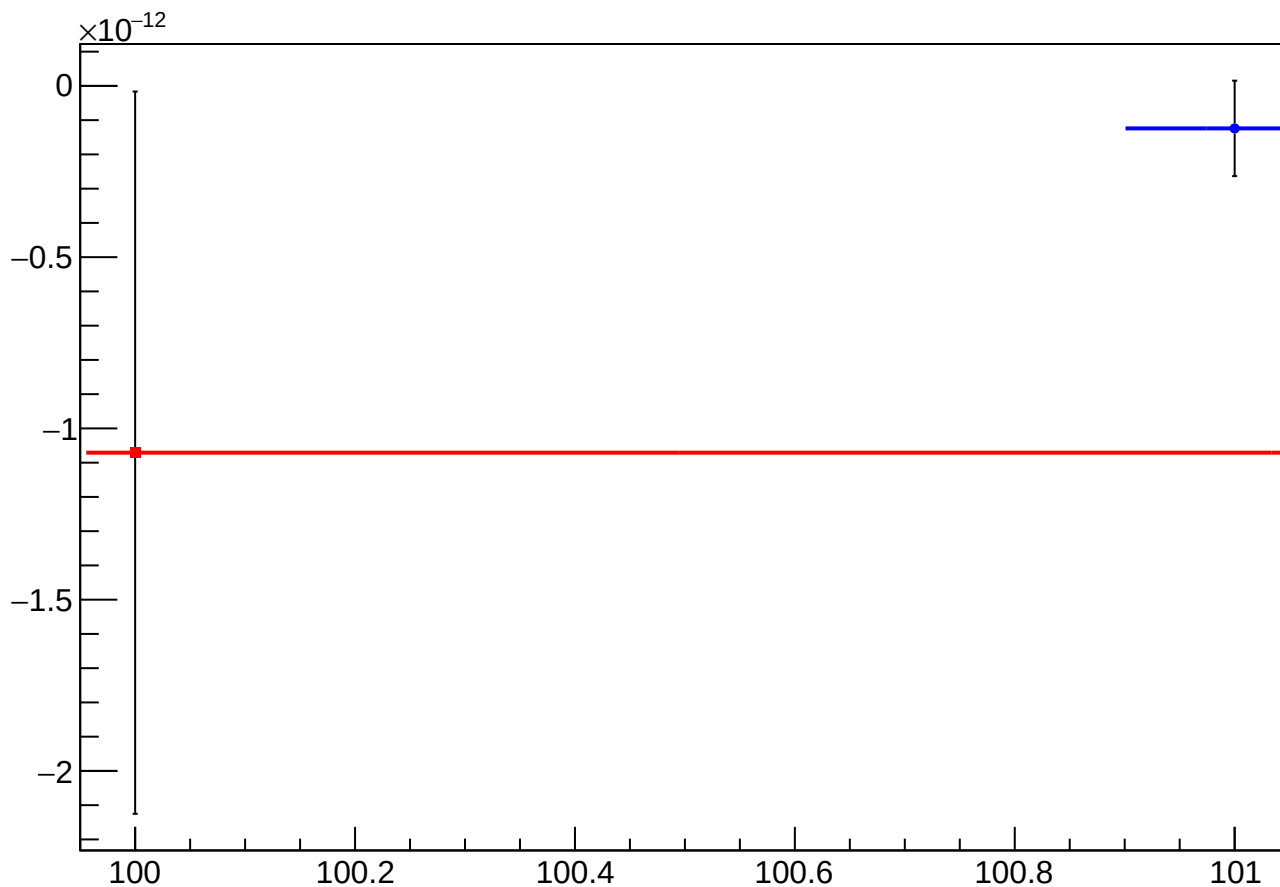
Right: 7097.714 $\pm$ 5.881  $\chi^2$ /NDF: 829.1/1

In: 7045.926 $\pm$ 6.150  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7097.714 $\pm$ 5.881  $\chi^2$ /NDF: 829.1/1

asym\_atr\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

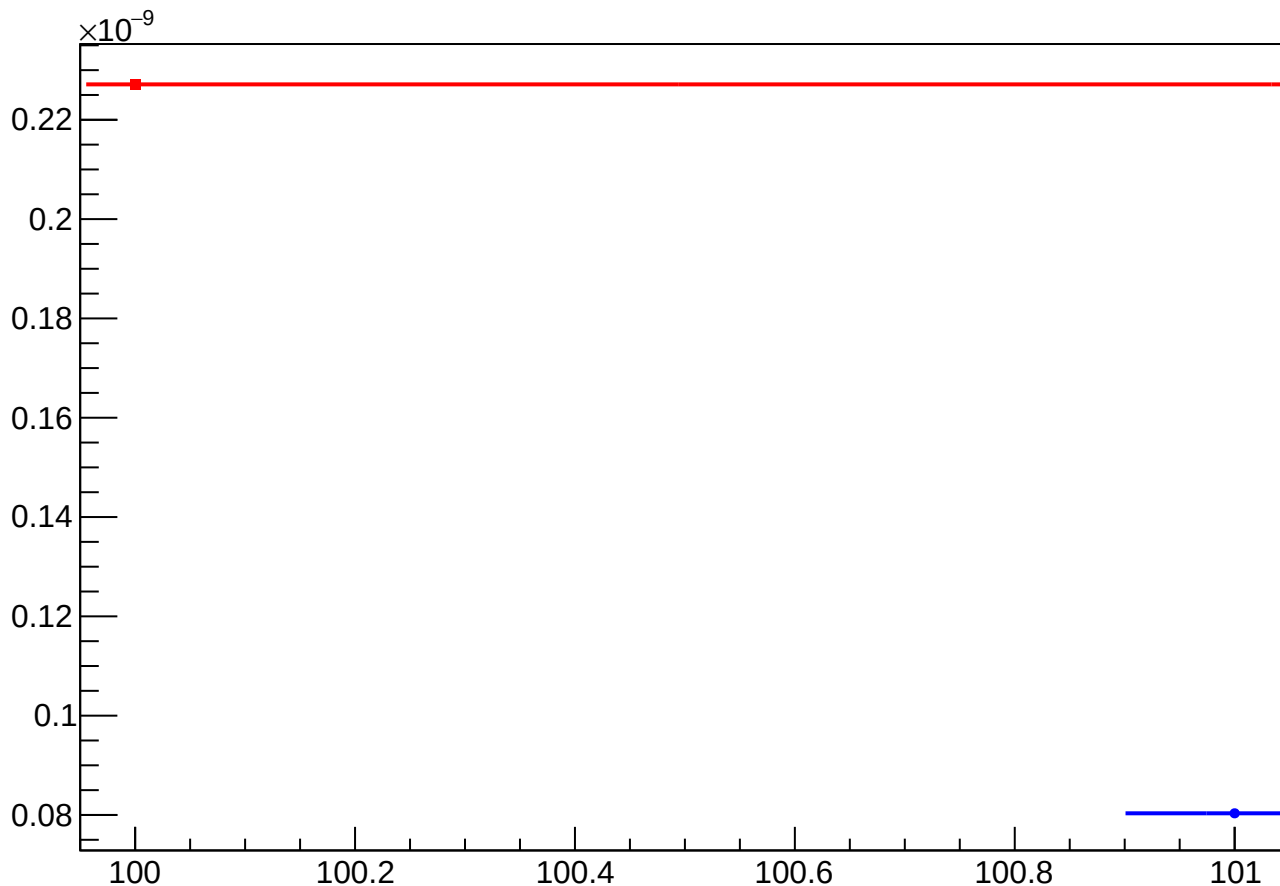
Right:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.8/1

In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.8/1

asym\_atr\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38101.8/1

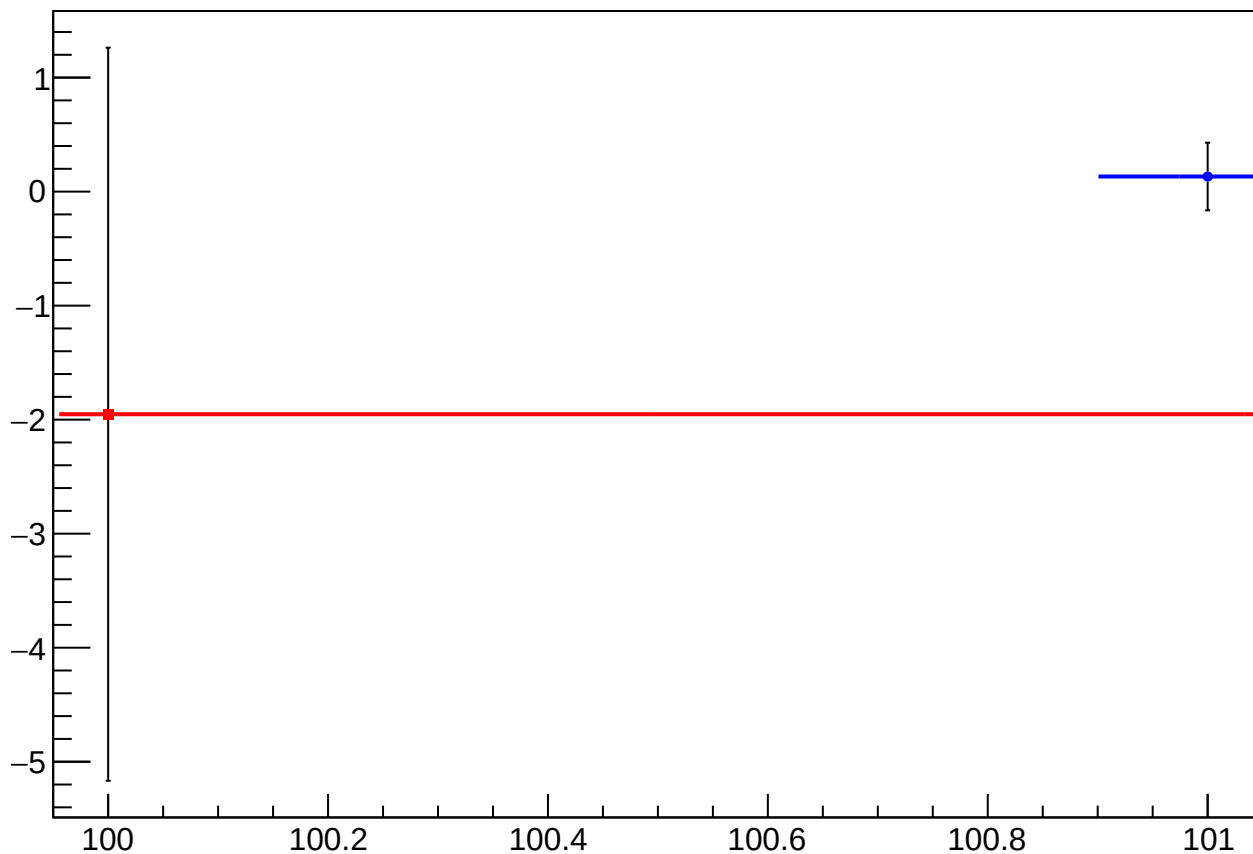
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38101.8/1



asym\_atr\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.132 $\pm$ 0.297  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.952 $\pm$ 3.215  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

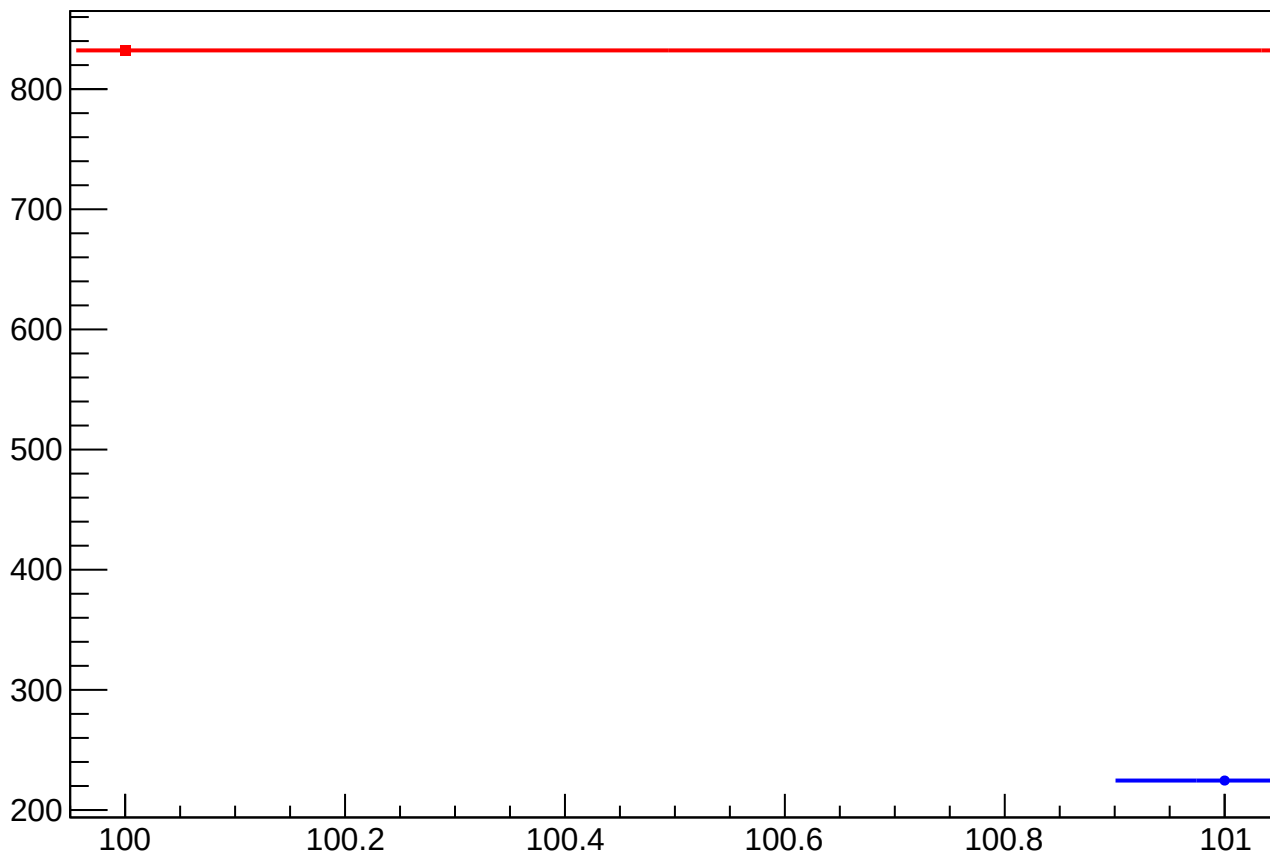
Right: 0.115 $\pm$ 0.295  $\chi^2$ /NDF: 0.4/1

In: 0.132 $\pm$ 0.297  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.115 $\pm$ 0.295  $\chi^2$ /NDF: 0.4/1

asym\_atr\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 224.530 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 832.227 $\pm$ 2.273  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

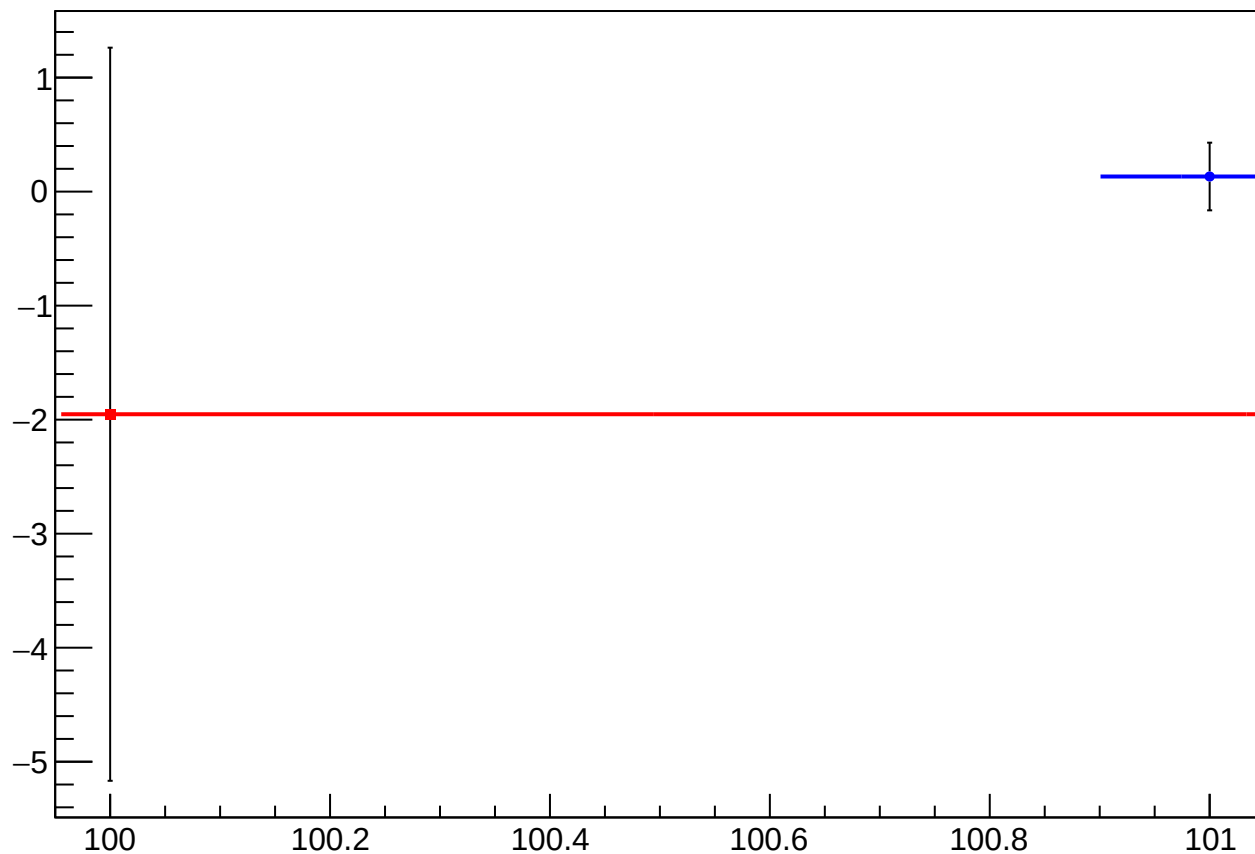
Right: 229.663 $\pm$ 0.209  $\chi^2$ /NDF: 70859.5/1

In: 224.530 $\pm$ 0.210  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 229.663 $\pm$ 0.209  $\chi^2$ /NDF: 70859.5/1

asym\_atr\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.132+/-0.297  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.952+/-3.215  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

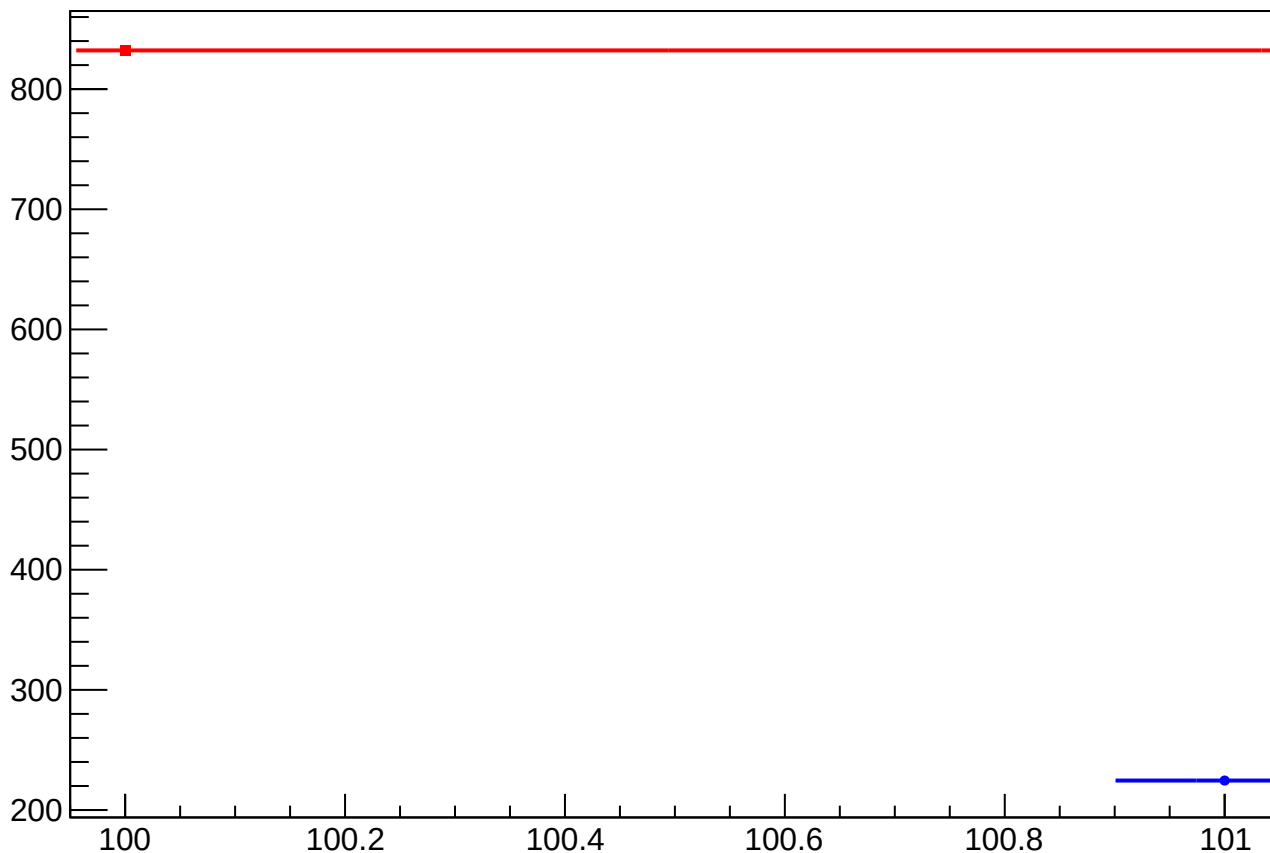
Right: 0.115+/-0.295  $\chi^2/\text{NDF}$ : 0.4/1

In: 0.132+/-0.297  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.115+/-0.295  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atr\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 224.530+/-0.210  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 832.227+/-2.273  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

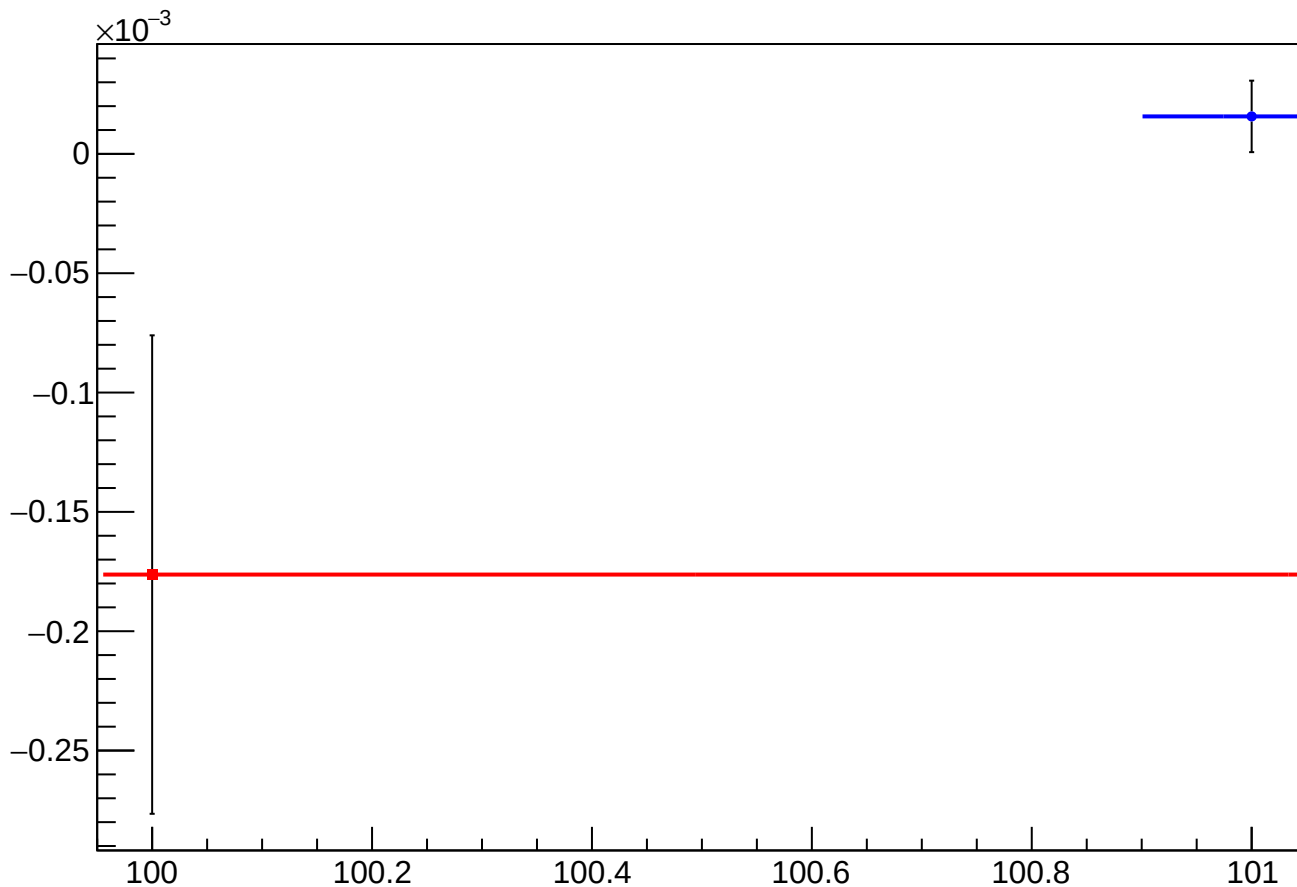
Right: 229.663+/-0.209  $\chi^2/\text{NDF}$ : 70859.5/1

In: 224.530+/-0.210  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 229.663+/-0.209  $\chi^2/\text{NDF}$ : 70859.5/1

asym\_atr\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

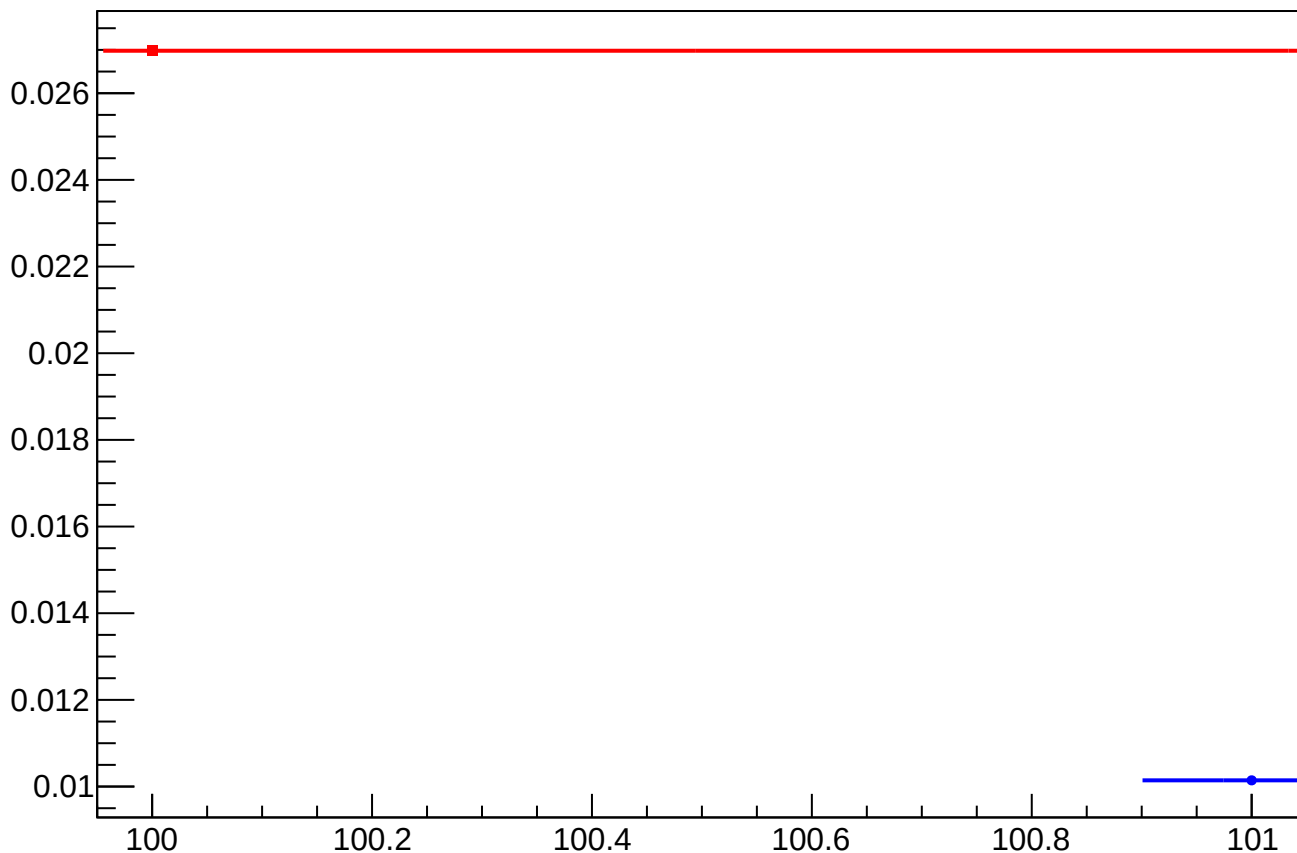
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.6/1

asym\_atr\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

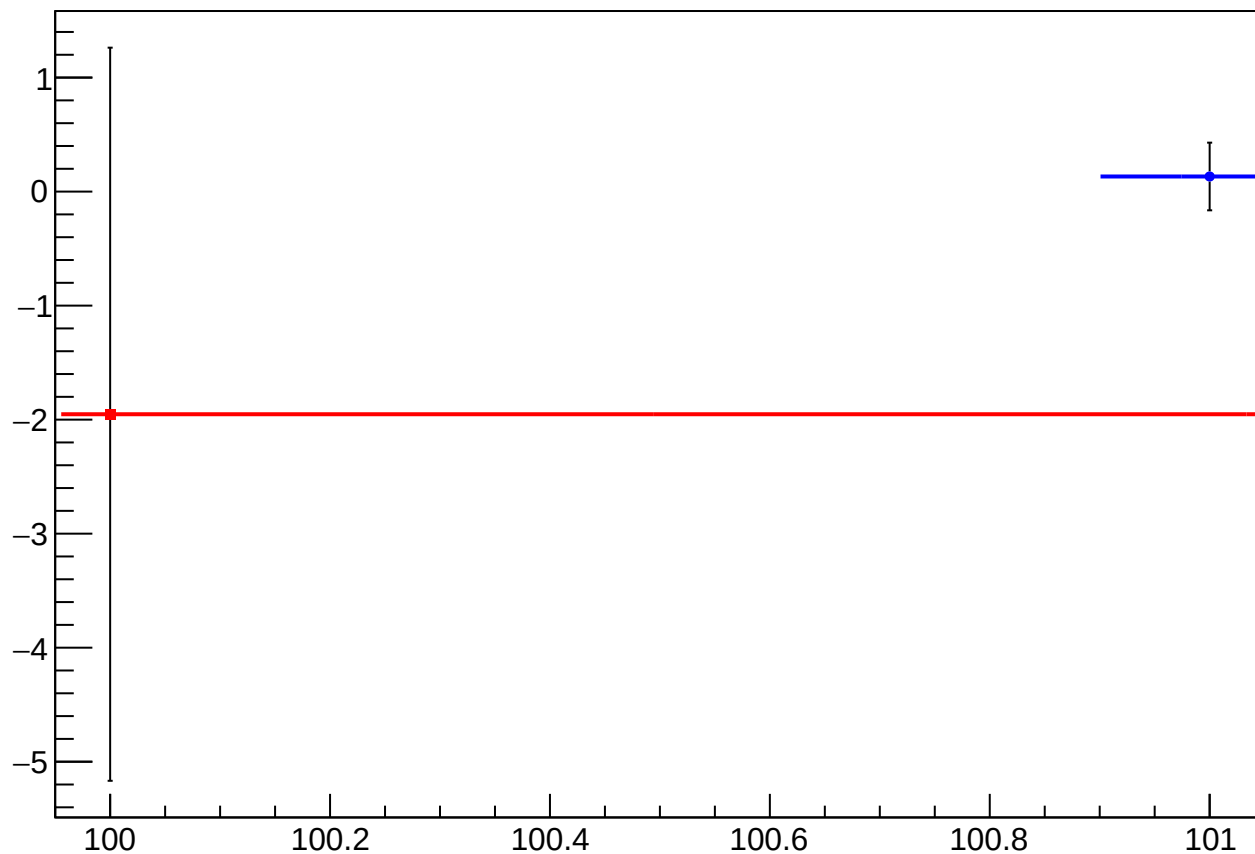
Right: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 55197.8/1

In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 55197.8/1

asym\_atr\_dd\_eigen\_dit\_vs\_slug, Sign Corrected



Right In: 0.132 $\pm$ 0.297  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.953 $\pm$ 3.215  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

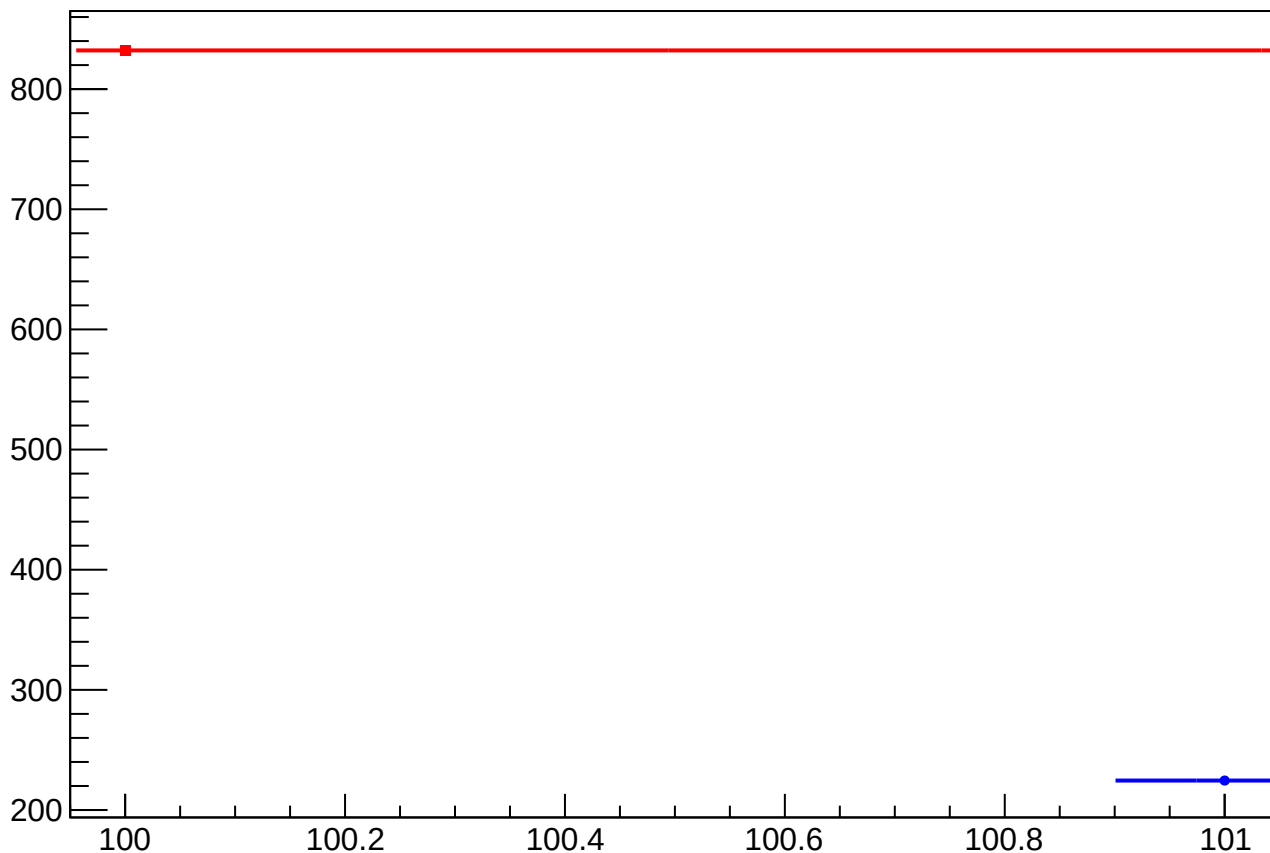
Right: 0.115 $\pm$ 0.295  $\chi^2$ /NDF: 0.4/1

In: 0.132 $\pm$ 0.297  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.115 $\pm$ 0.295  $\chi^2$ /NDF: 0.4/1

asym\_atr\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 224.526 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 832.223 $\pm$ 2.273  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 229.659 $\pm$ 0.209  $\chi^2$ /NDF: 70860.0/1

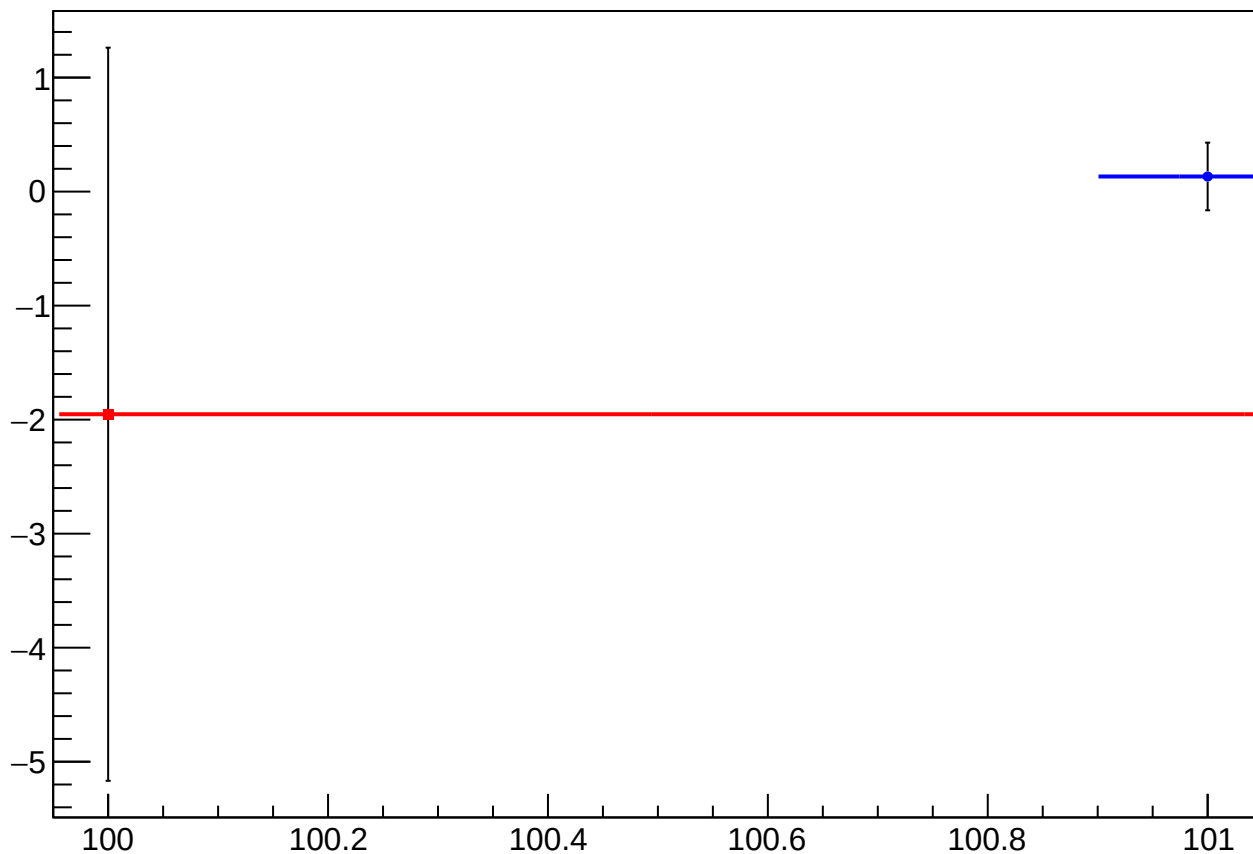
In: 224.526 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 229.659 $\pm$ 0.209  $\chi^2$ /NDF: 70860.0/1



asym\_atr\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.132 $\pm$ 0.297  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.953 $\pm$ 3.215  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

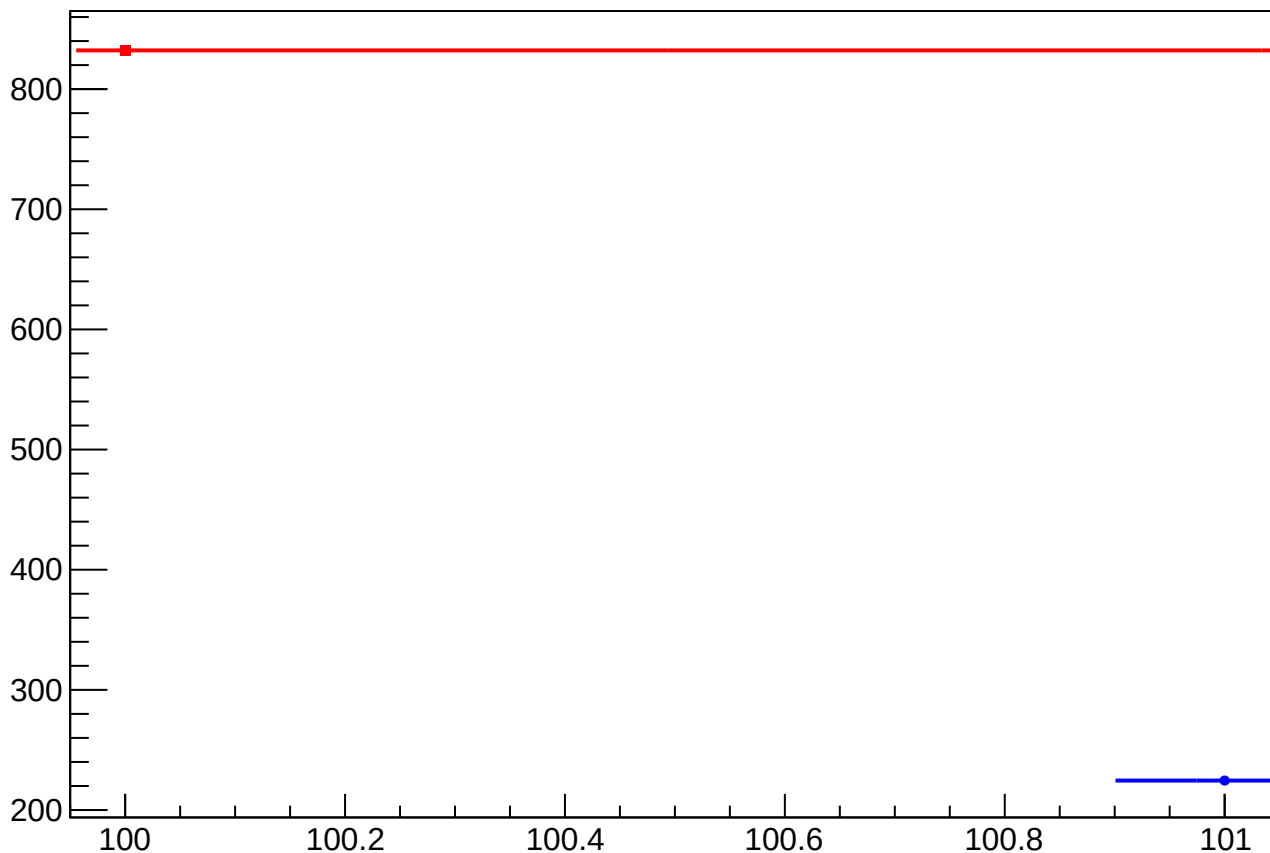
Right: 0.115 $\pm$ 0.295  $\chi^2/\text{NDF}$ : 0.4/1

In: 0.132 $\pm$ 0.297  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.115 $\pm$ 0.295  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atr\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 224.526+/-0.210  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 832.223+/-2.273  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

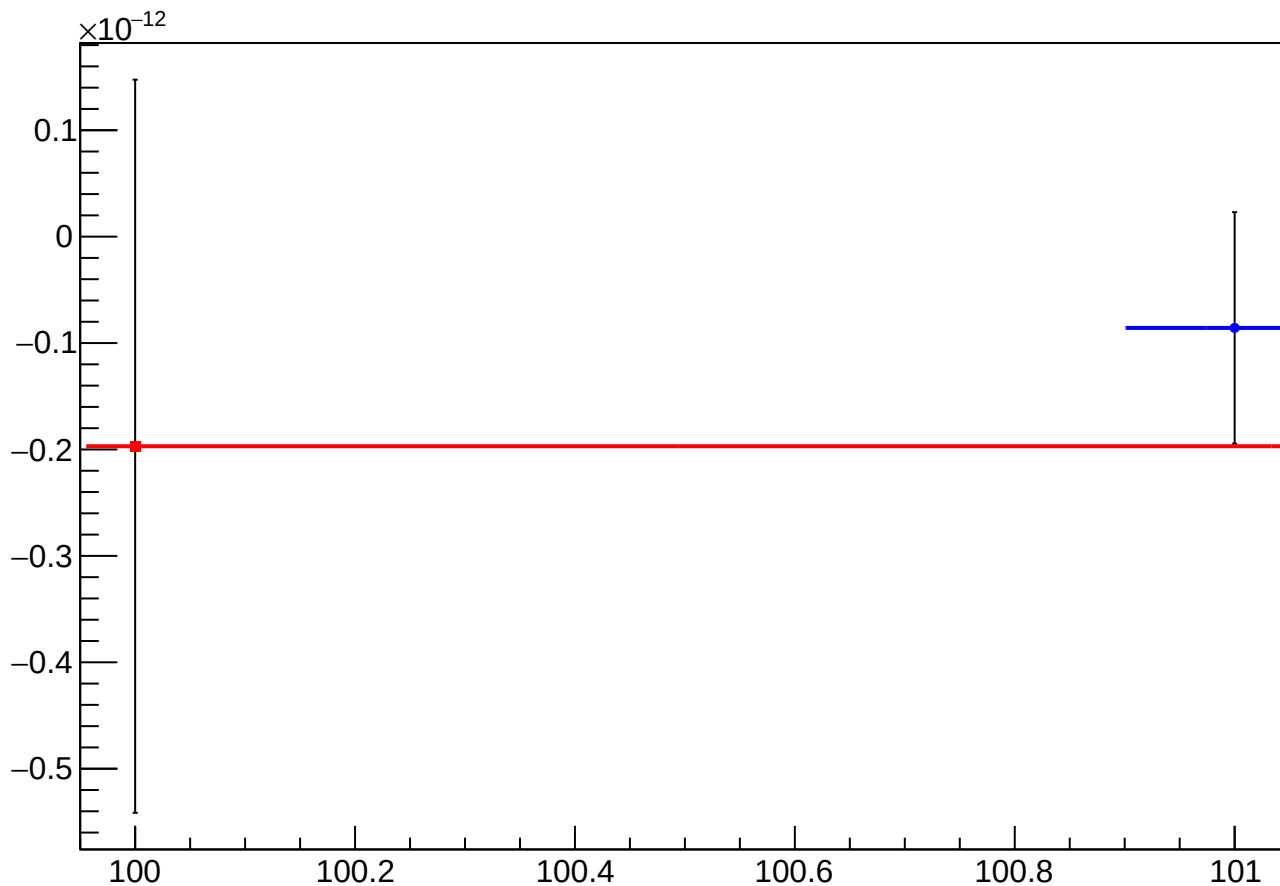
Right: 229.659+/-0.209  $\chi^2/\text{NDF}$ : 70860.0/1

In: 224.526+/-0.210  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 229.659+/-0.209  $\chi^2/\text{NDF}$ : 70860.0/1

asym\_atr\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

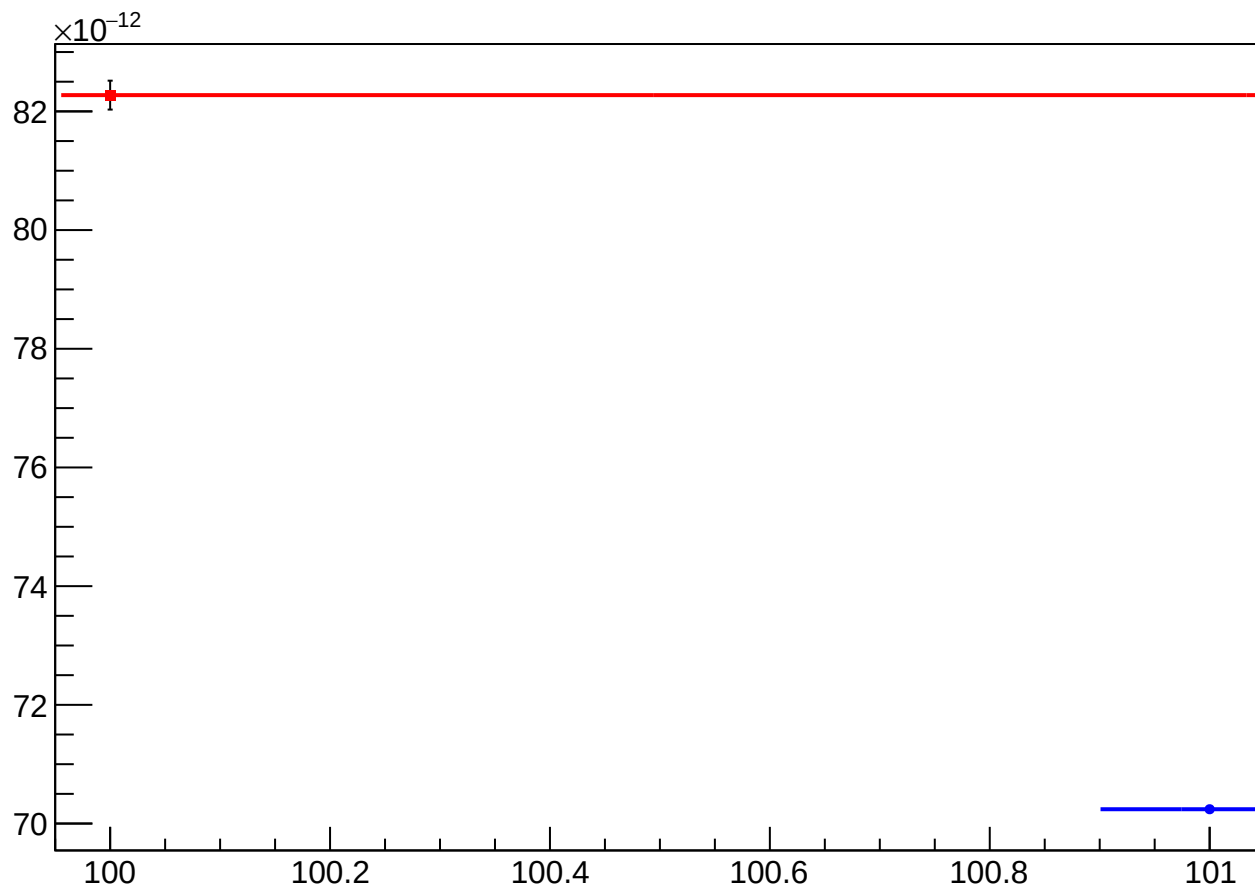
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

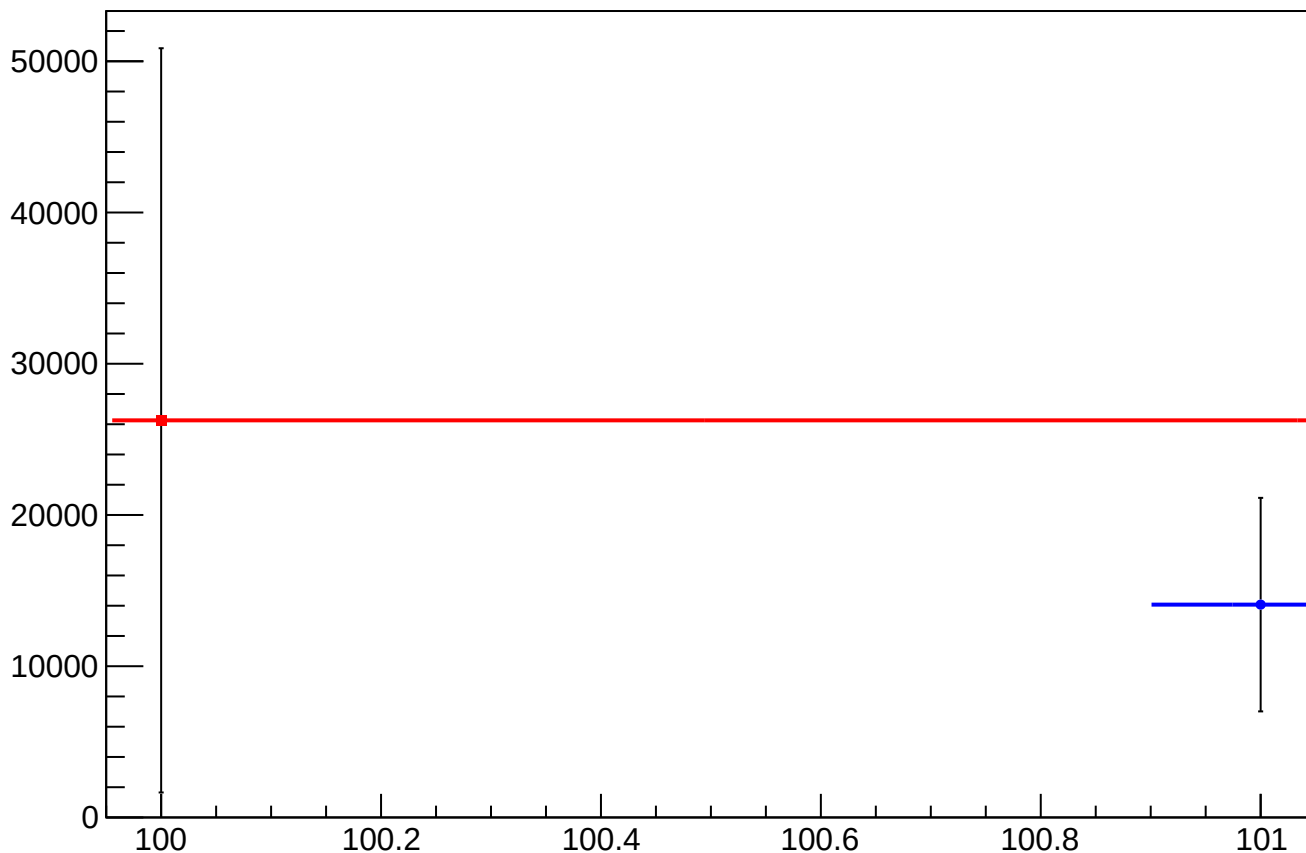
asym\_atr\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2219.1/1  
 In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2219.1/1

reg\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 14072.241+/-7059.665  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26257.007+/-24605.329  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

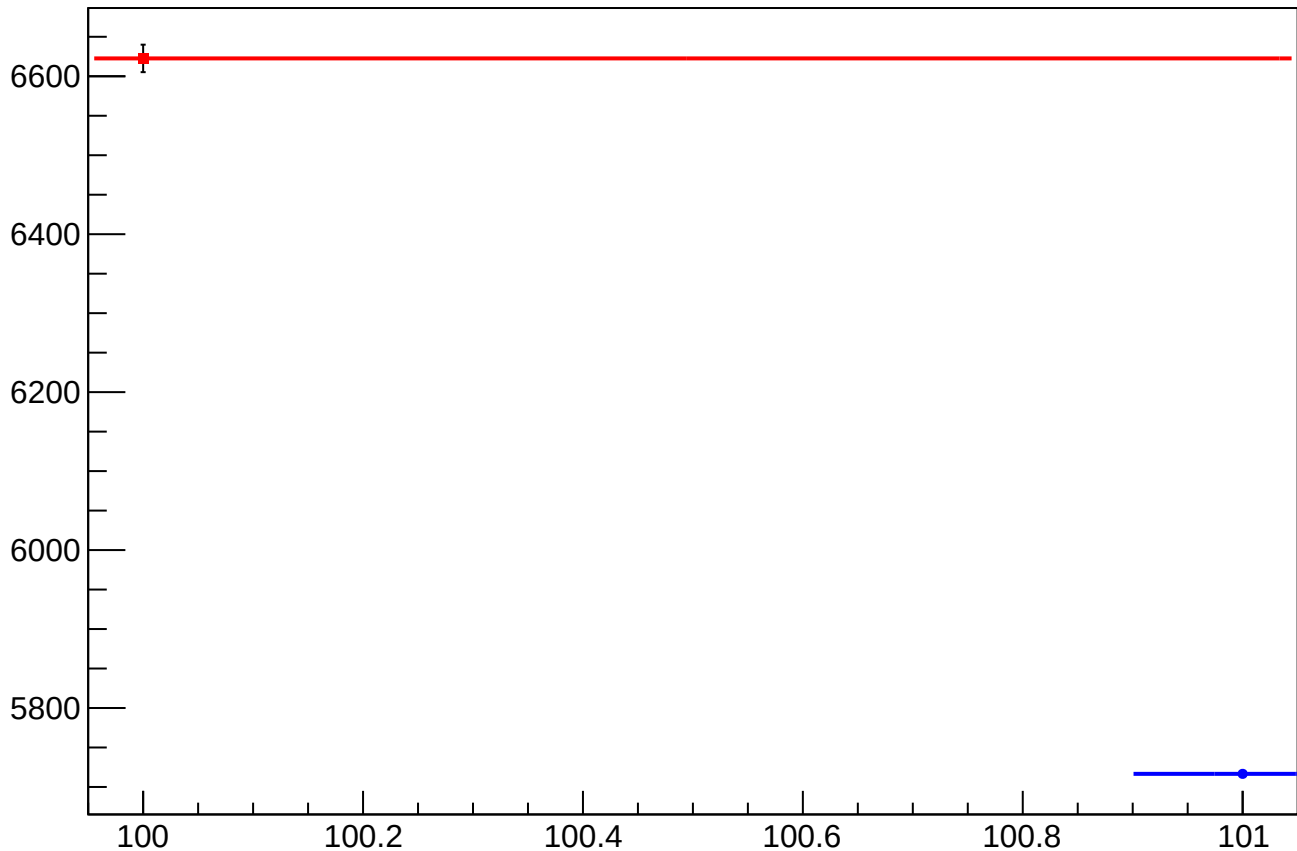
Right: 14999.009+/-6785.879  $\chi^2/\text{NDF}$ : 0.2/1

In: 14072.241+/-7059.665  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14999.009+/-6785.879  $\chi^2/\text{NDF}$ : 0.2/1

# reg\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 5716.607 $\pm$ 4.992  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6622.612 $\pm$ 17.399  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

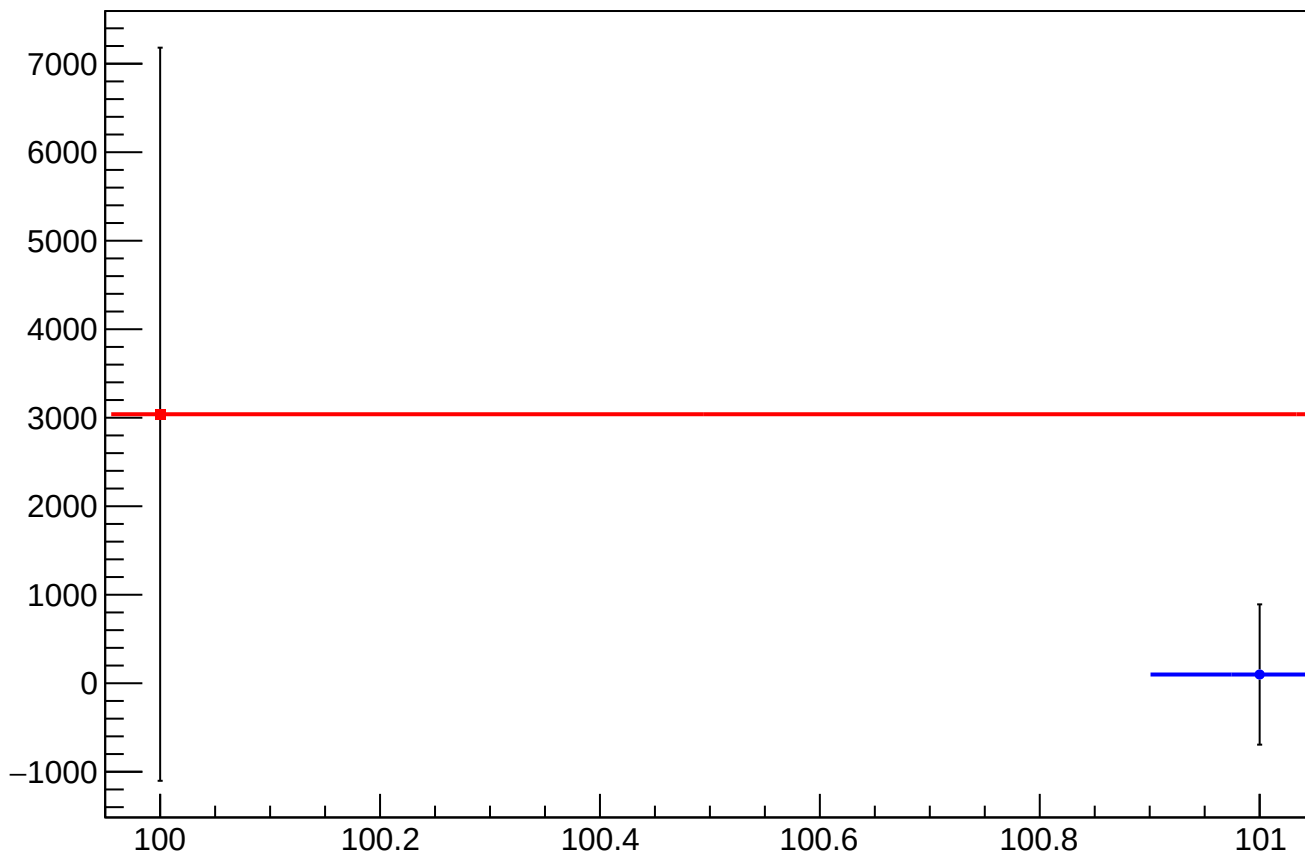
Right: 5785.517 $\pm$ 4.798  $\chi^2$ /NDF: 2505.4/1

In: 5716.607 $\pm$ 4.992  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5785.517 $\pm$ 4.798  $\chi^2$ /NDF: 2505.4/1

asym\_at1\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 98.764+/-792.578  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3039.539+/-4141.681  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

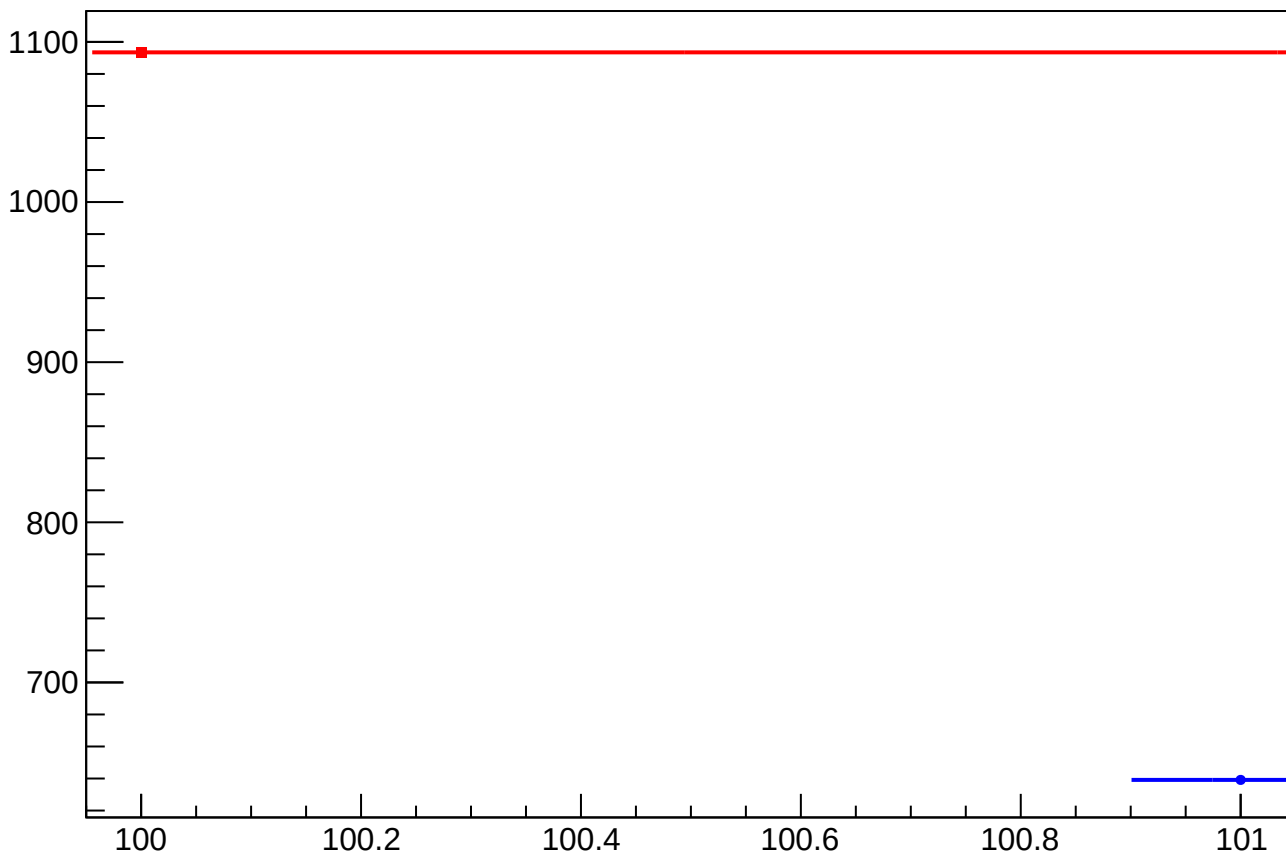
Right: 202.654+/-778.452  $\chi^2/\text{NDF}$ : 0.5/1

In: 98.764+/-792.578  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 202.654+/-778.452  $\chi^2/\text{NDF}$ : 0.5/1

asym\_at1\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 639.137+/-0.560  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1093.477+/-2.929  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 655.188+/-0.550  $\chi^2/\text{NDF}$ : 23217.7/1

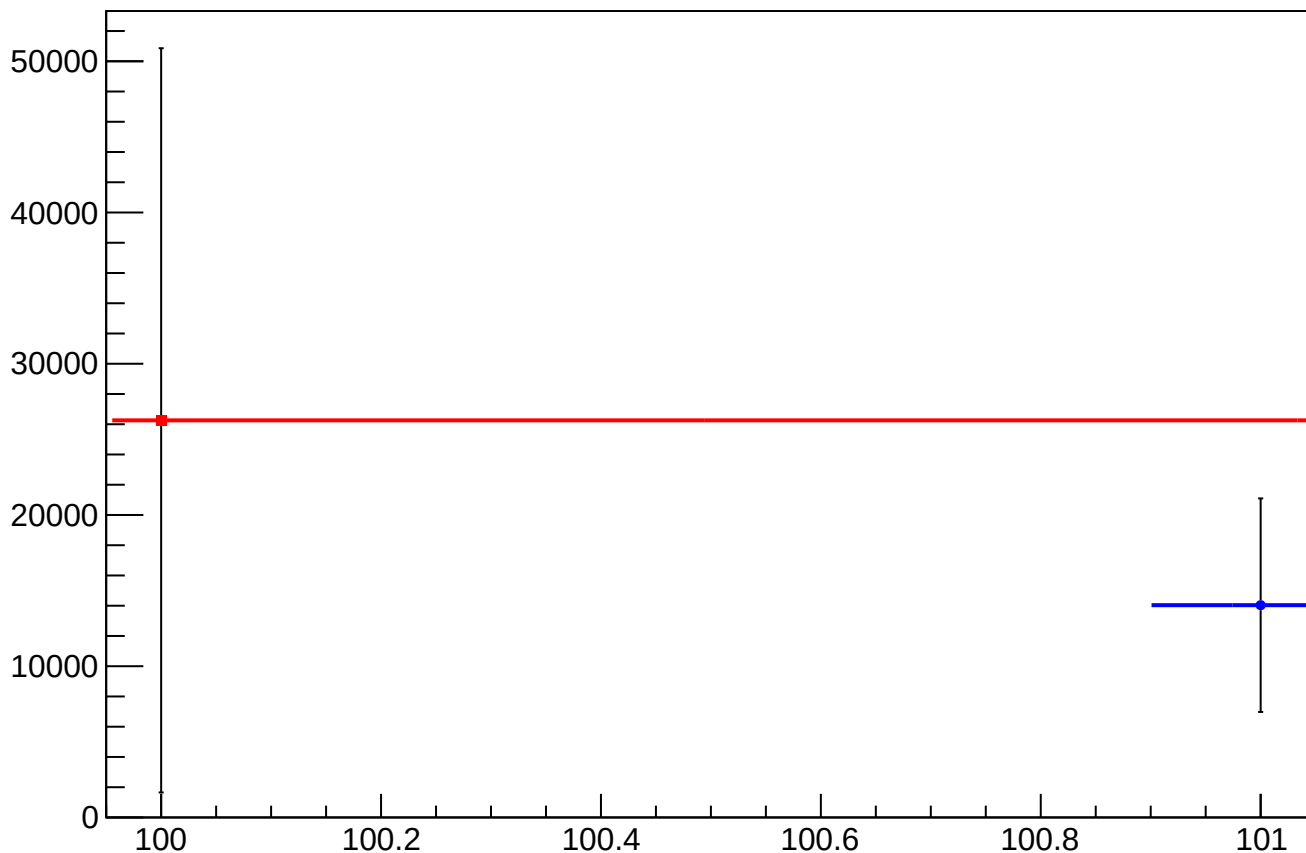
In: 639.137+/-0.560  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 655.188+/-0.550  $\chi^2/\text{NDF}$ : 23217.7/1



# cor\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 14036.013+/-7059.695  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26257.217+/-24605.329  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

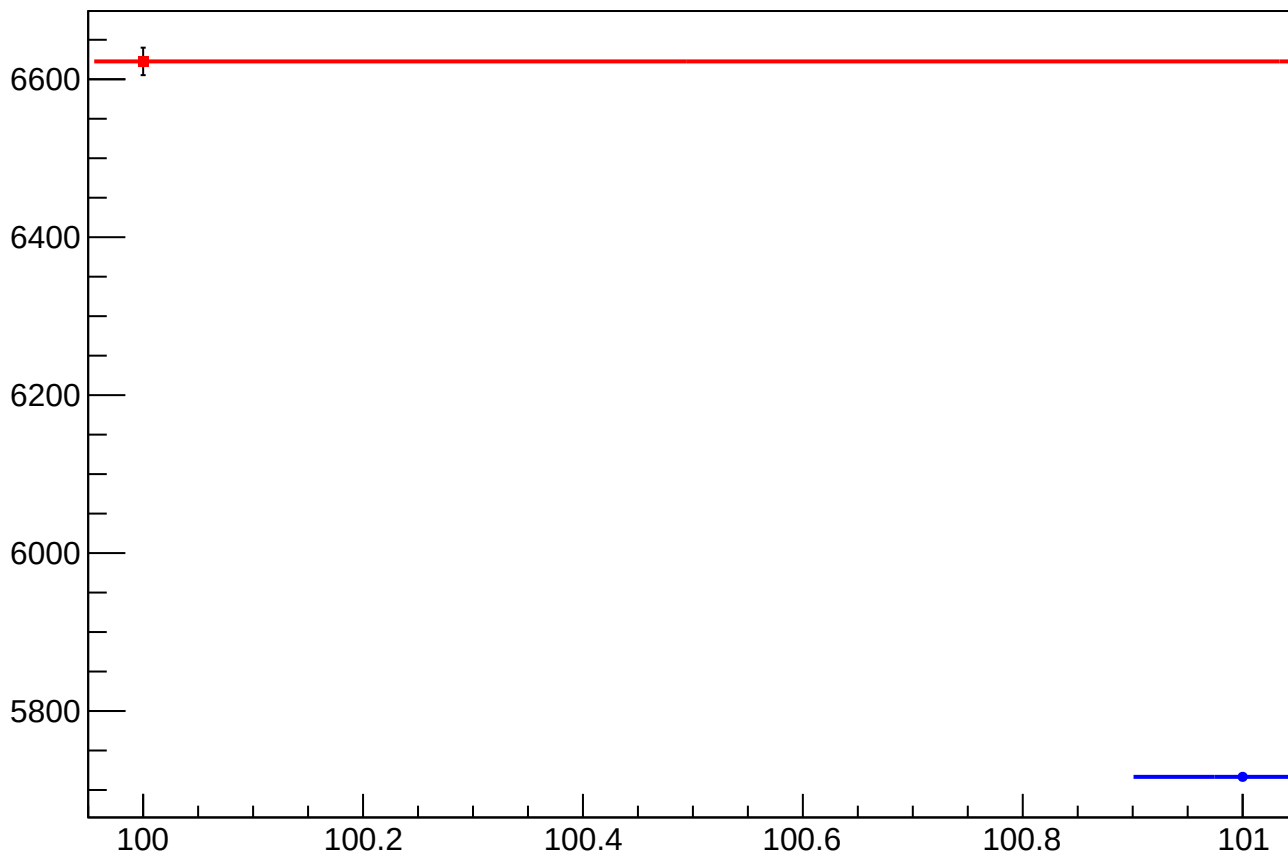
Right: 14965.560+/-6785.905  $\chi^2/\text{NDF}$ : 0.2/1

In: 14036.013+/-7059.695  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14965.560+/-6785.905  $\chi^2/\text{NDF}$ : 0.2/1

# cor\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 5716.623 $\pm$ 4.992  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6622.612 $\pm$ 17.399  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

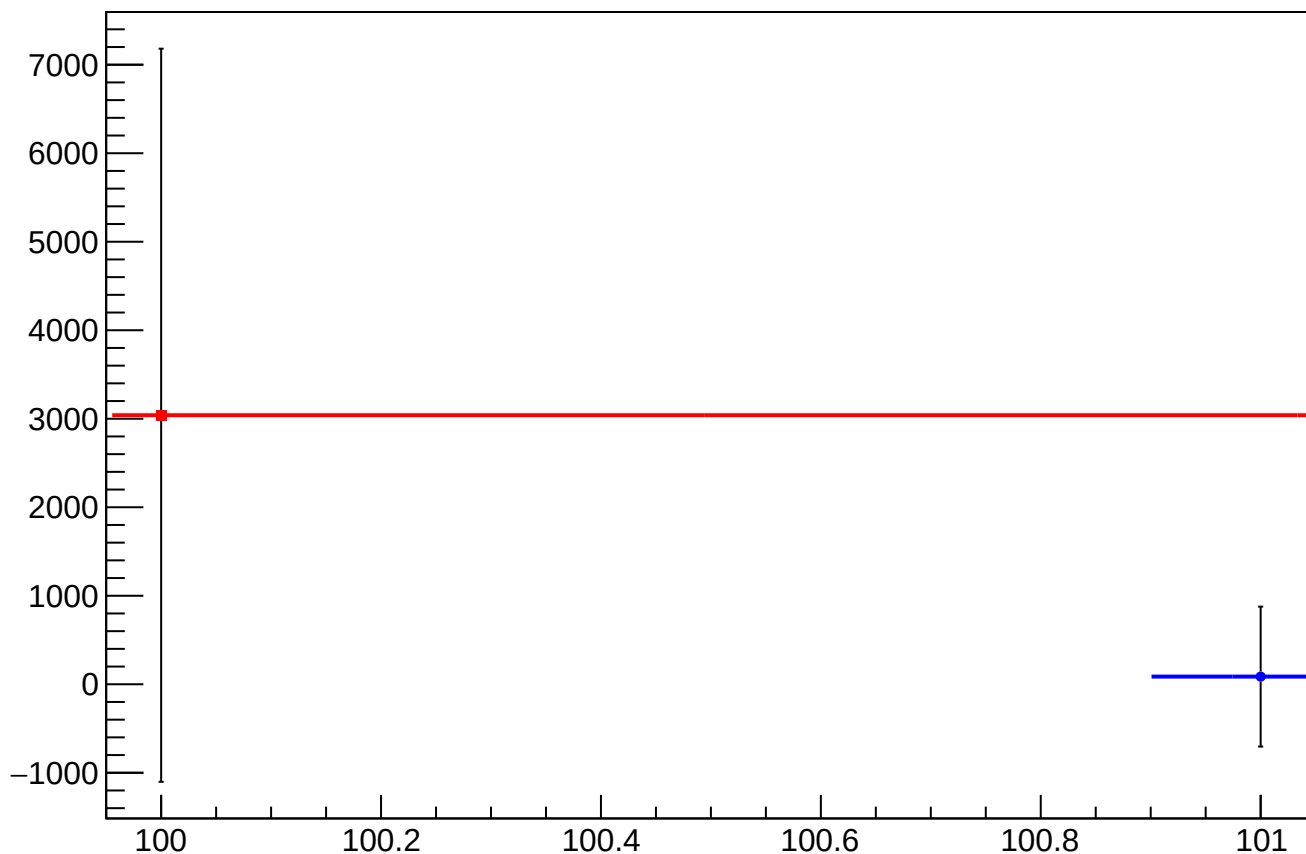
Right: 5785.533 $\pm$ 4.798  $\chi^2$ /NDF: 2505.3/1

In: 5716.623 $\pm$ 4.992  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5785.533 $\pm$ 4.798  $\chi^2$ /NDF: 2505.3/1

asym\_at1\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 86.562+/-790.580  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3039.675+/-4141.679  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

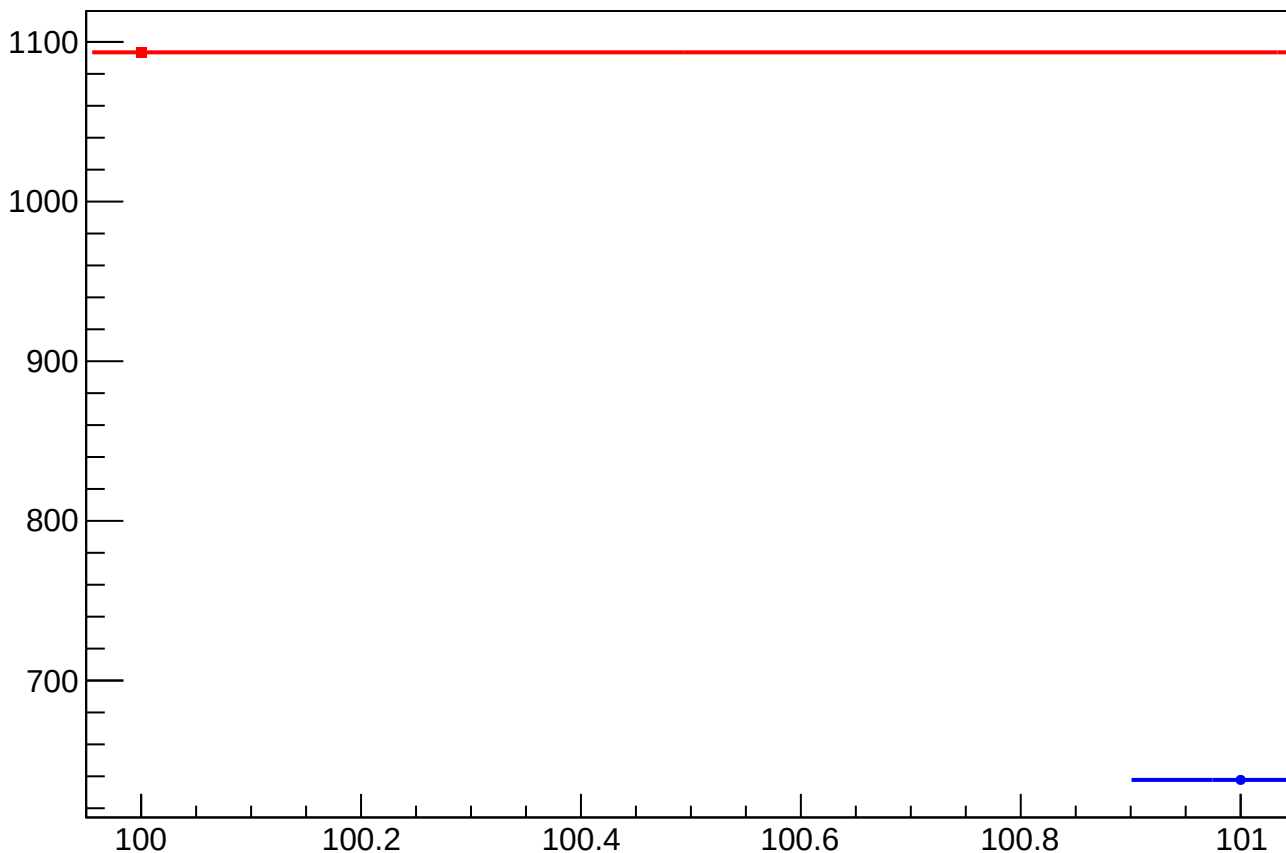
Right: 190.380+/-776.559  $\chi^2/\text{NDF}$ : 0.5/1

In: 86.562+/-790.580  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 190.380+/-776.559  $\chi^2/\text{NDF}$ : 0.5/1

asym\_at1\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 637.750 $\pm$ 0.559  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1093.477 $\pm$ 2.929  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

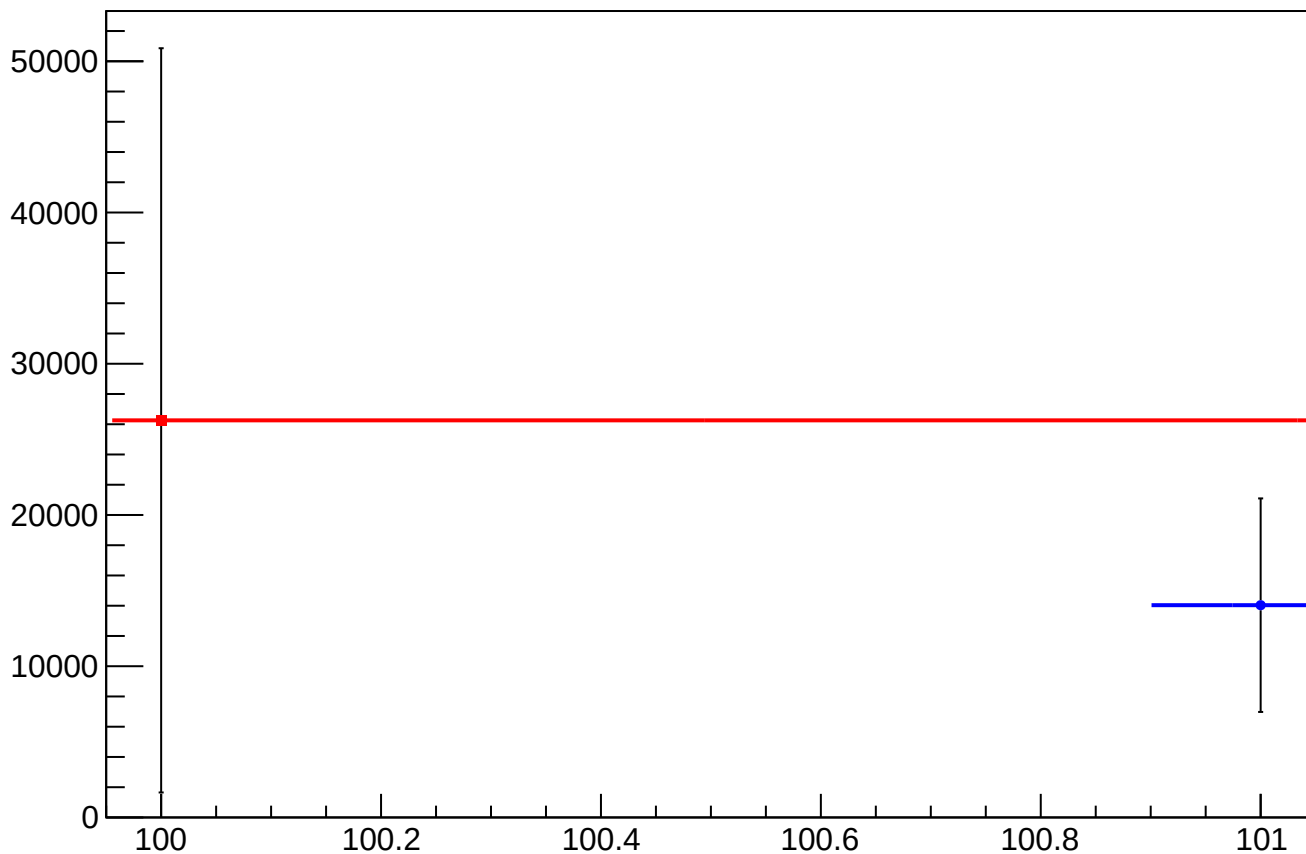
Right: 653.772 $\pm$ 0.549  $\chi^2$ /NDF: 23363.8/1

In: 637.750 $\pm$ 0.559  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 653.772 $\pm$ 0.549  $\chi^2$ /NDF: 23363.8/1

eigen\_cor\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 14036.013+/-7059.695  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26257.217+/-24605.329  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

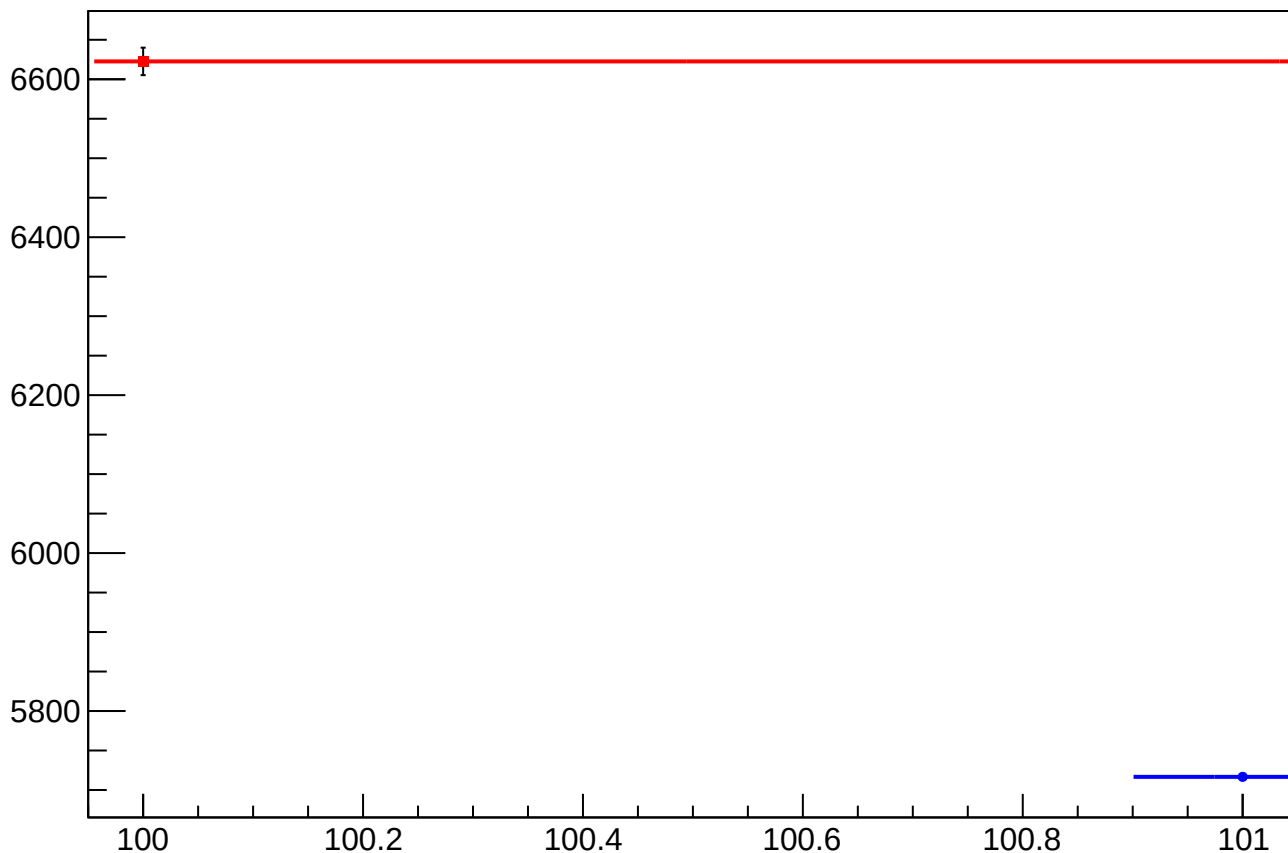
Right: 14965.560+/-6785.905  $\chi^2/\text{NDF}$ : 0.2/1

In: 14036.013+/-7059.695  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14965.560+/-6785.905  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_cor\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 5716.623+/-4.992  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6622.612+/-17.399  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

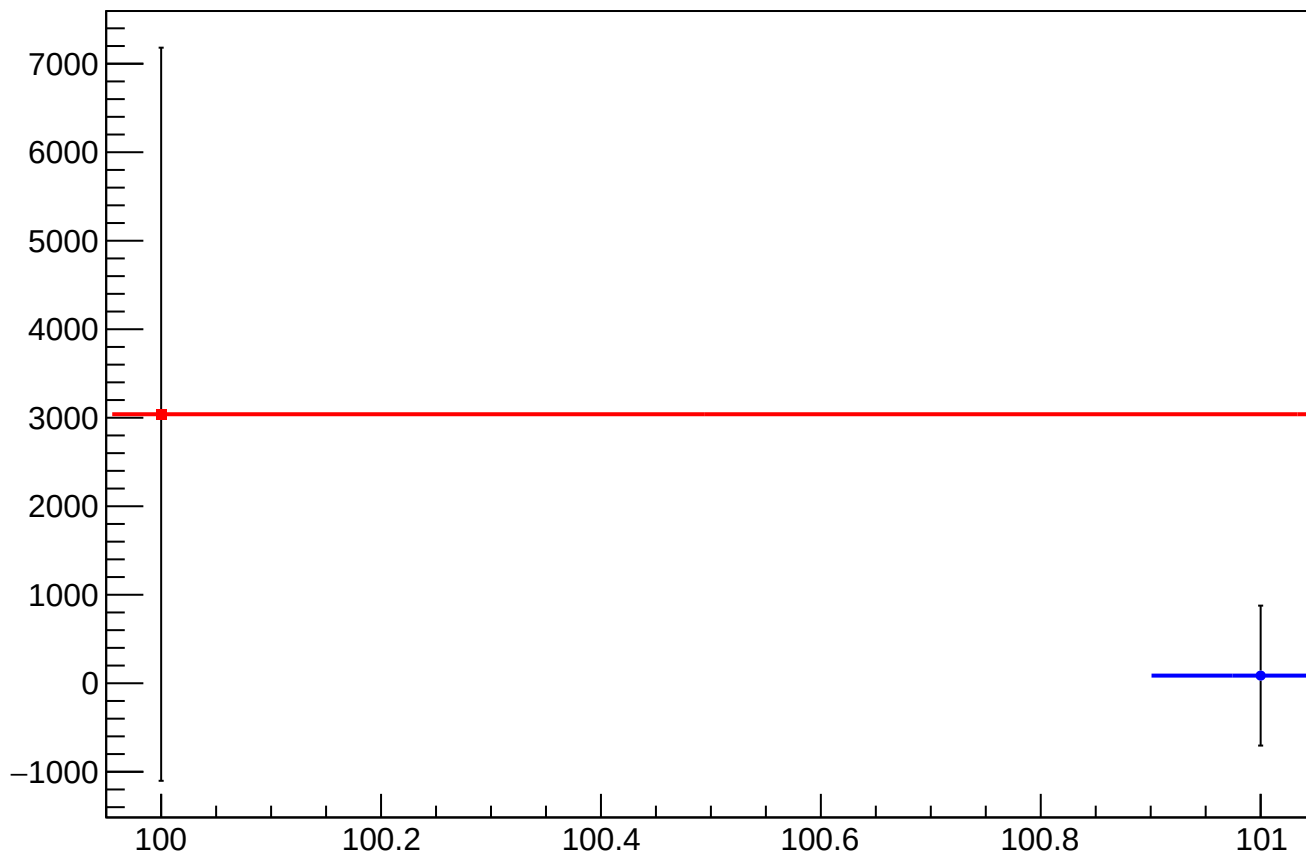
Right: 5785.533+/-4.798  $\chi^2/\text{NDF}$ : 2505.3/1

In: 5716.623+/-4.992  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5785.533+/-4.798  $\chi^2/\text{NDF}$ : 2505.3/1

asym\_at1\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 86.562+/-790.580  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3039.675+/-4141.679  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

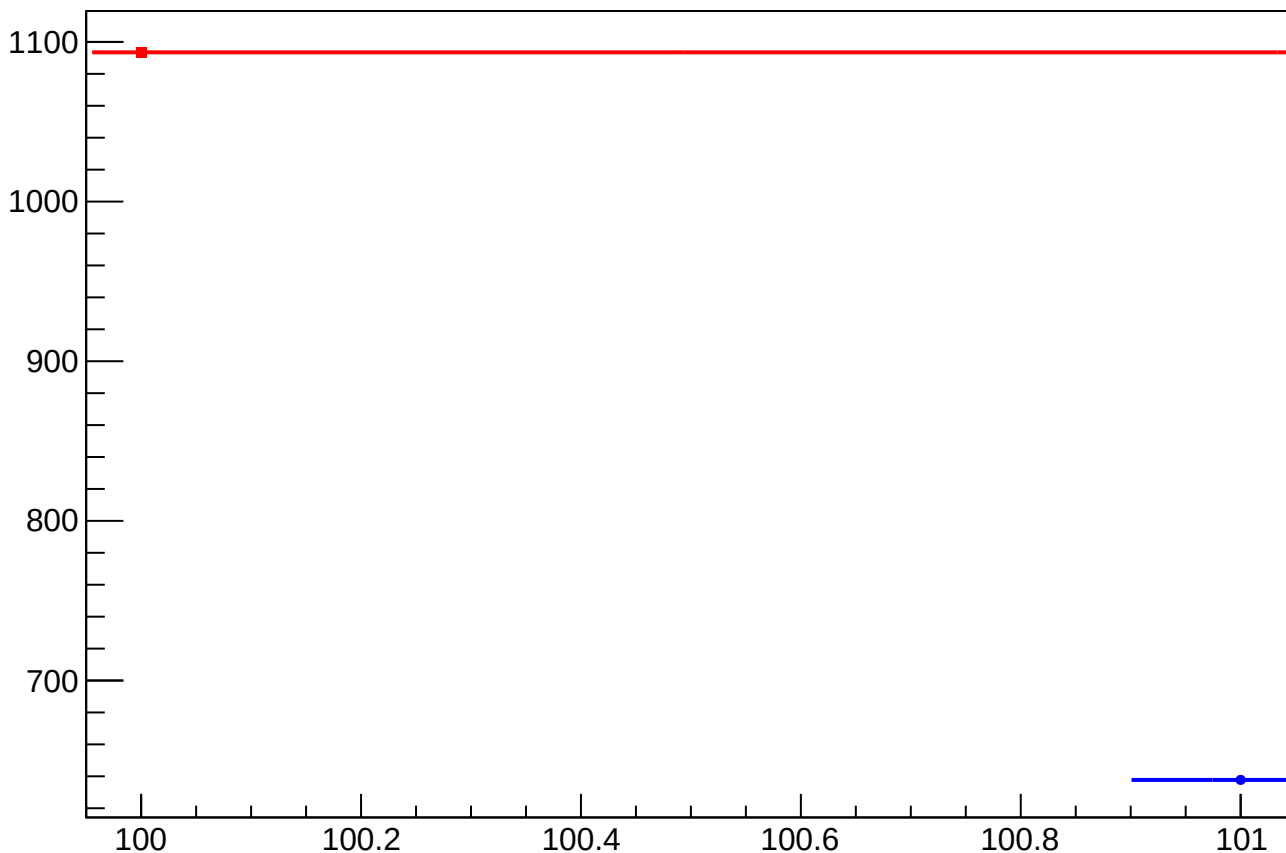
Right: 190.380+/-776.559  $\chi^2/\text{NDF}$ : 0.5/1

In: 86.562+/-790.580  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 190.380+/-776.559  $\chi^2/\text{NDF}$ : 0.5/1

asym\_at1\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 637.750+/-0.559  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1093.477+/-2.929  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 653.772+/-0.549  $\chi^2/\text{NDF}$ : 23363.8/1

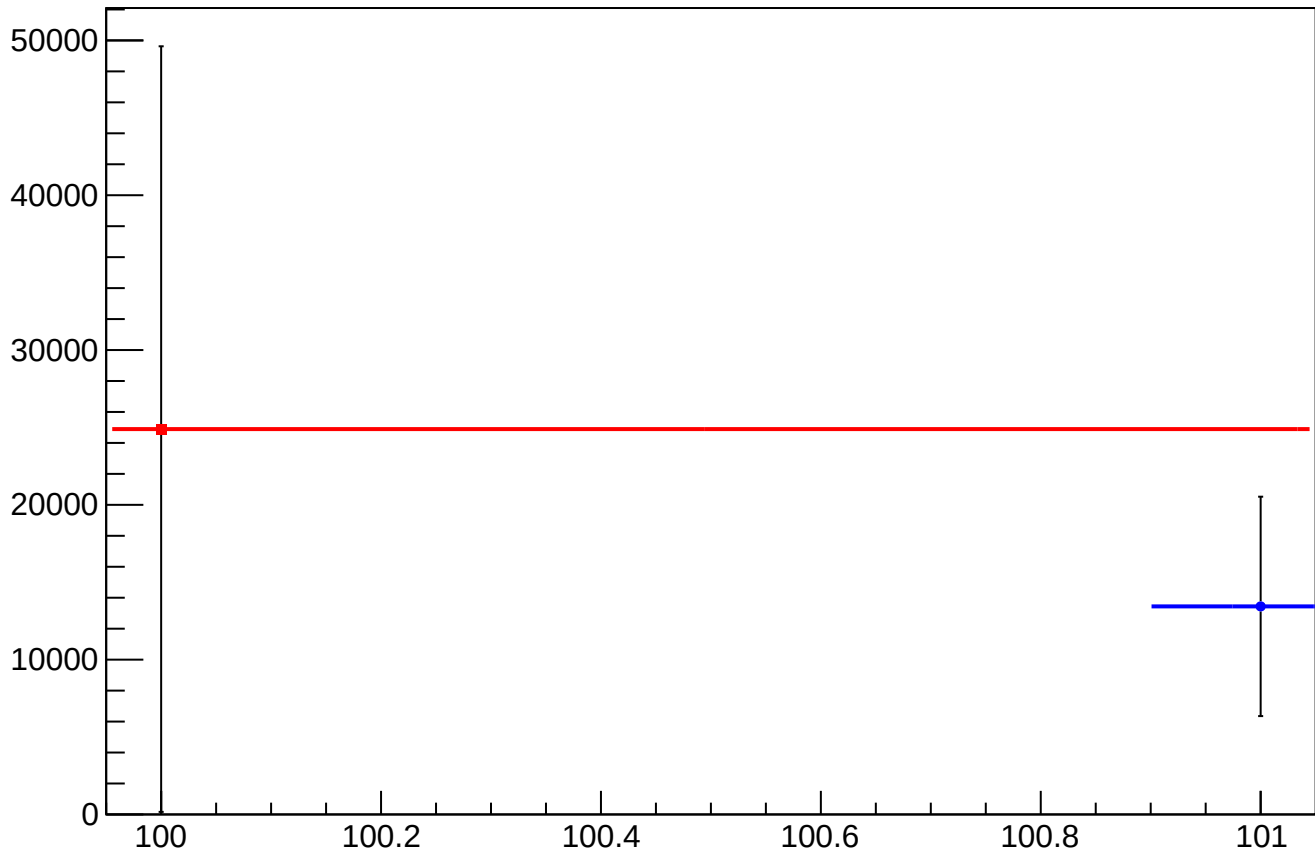
In: 637.750+/-0.559  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 653.772+/-0.549  $\chi^2/\text{NDF}$ : 23363.8/1



# dit\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 13440.249+/-7086.081  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24893.364+/-24727.275  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

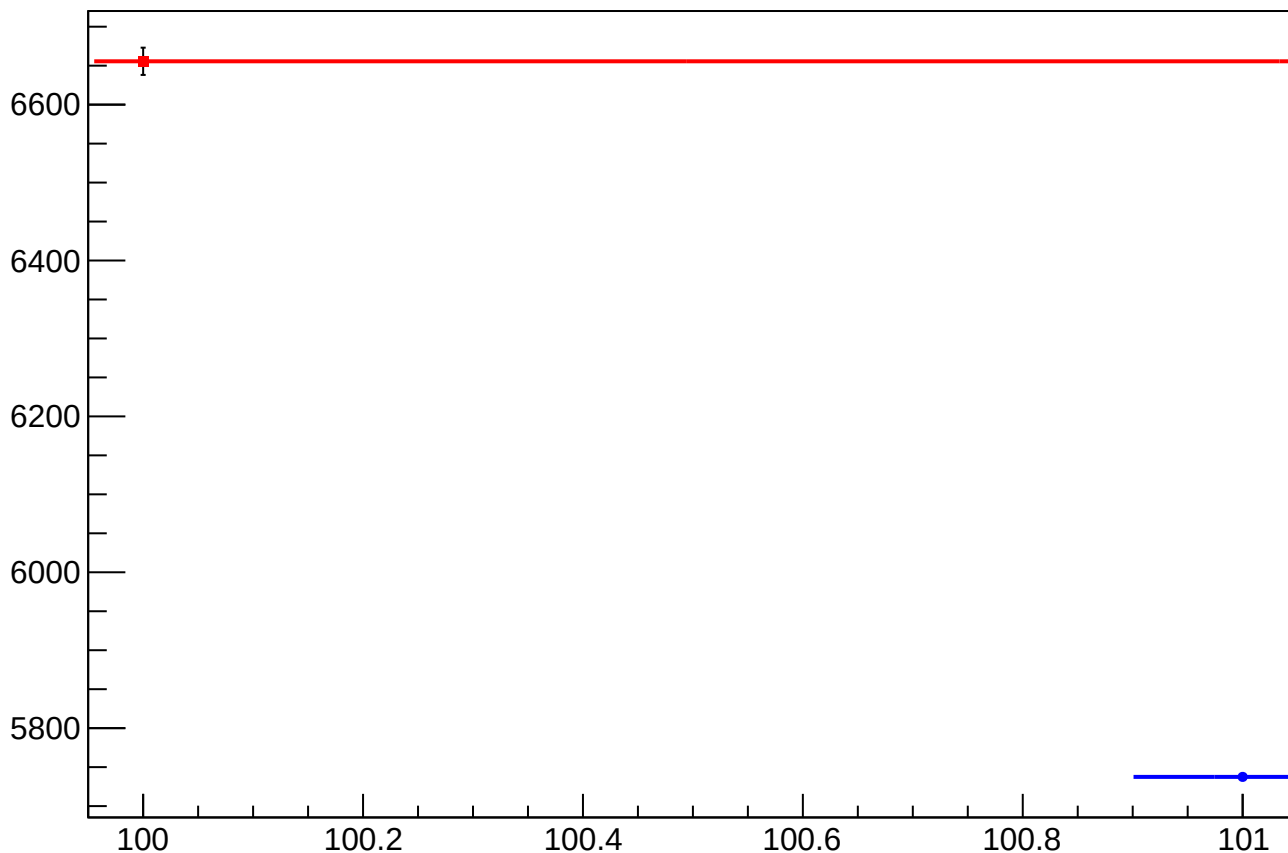
Right: 14309.424+/-6811.896  $\chi^2/\text{NDF}$ : 0.2/1

In: 13440.249+/-7086.081  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14309.424+/-6811.896  $\chi^2/\text{NDF}$ : 0.2/1

# dit\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 5737.473+/-5.011  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6655.598+/-17.485  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

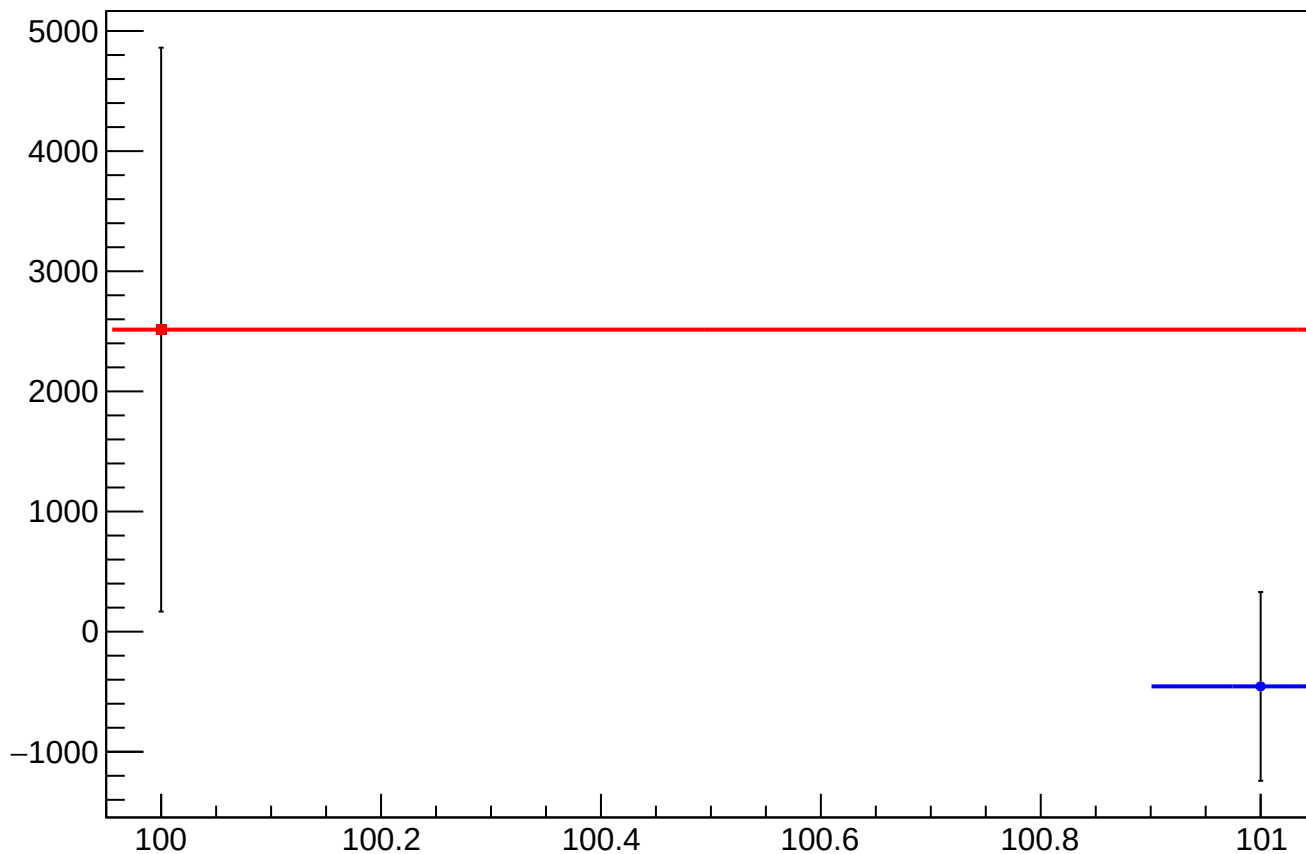
Right: 5807.150+/-4.817  $\chi^2/\text{NDF}$ : 2548.0/1

In: 5737.473+/-5.011  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5807.150+/-4.817  $\chi^2/\text{NDF}$ : 2548.0/1

asym\_at1\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -455.574+/-786.020  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2514.106+/-2347.130  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

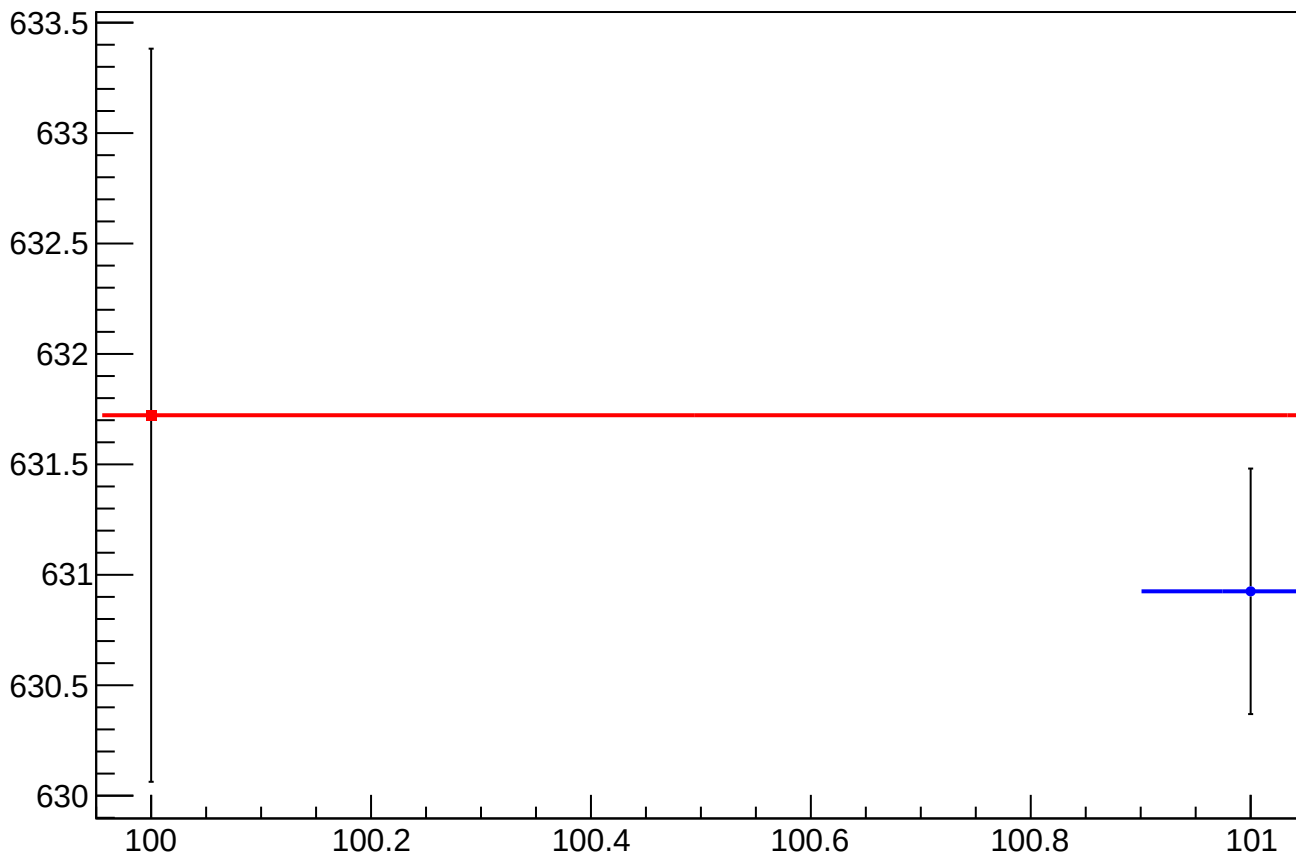
Right: -156.113+/-745.337  $\chi^2/\text{NDF}$ : 1.4/1

In: -455.574+/-786.020  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -156.113+/-745.337  $\chi^2/\text{NDF}$ : 1.4/1

asym\_at1\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 630.925+/-0.556  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 631.723+/-1.660  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

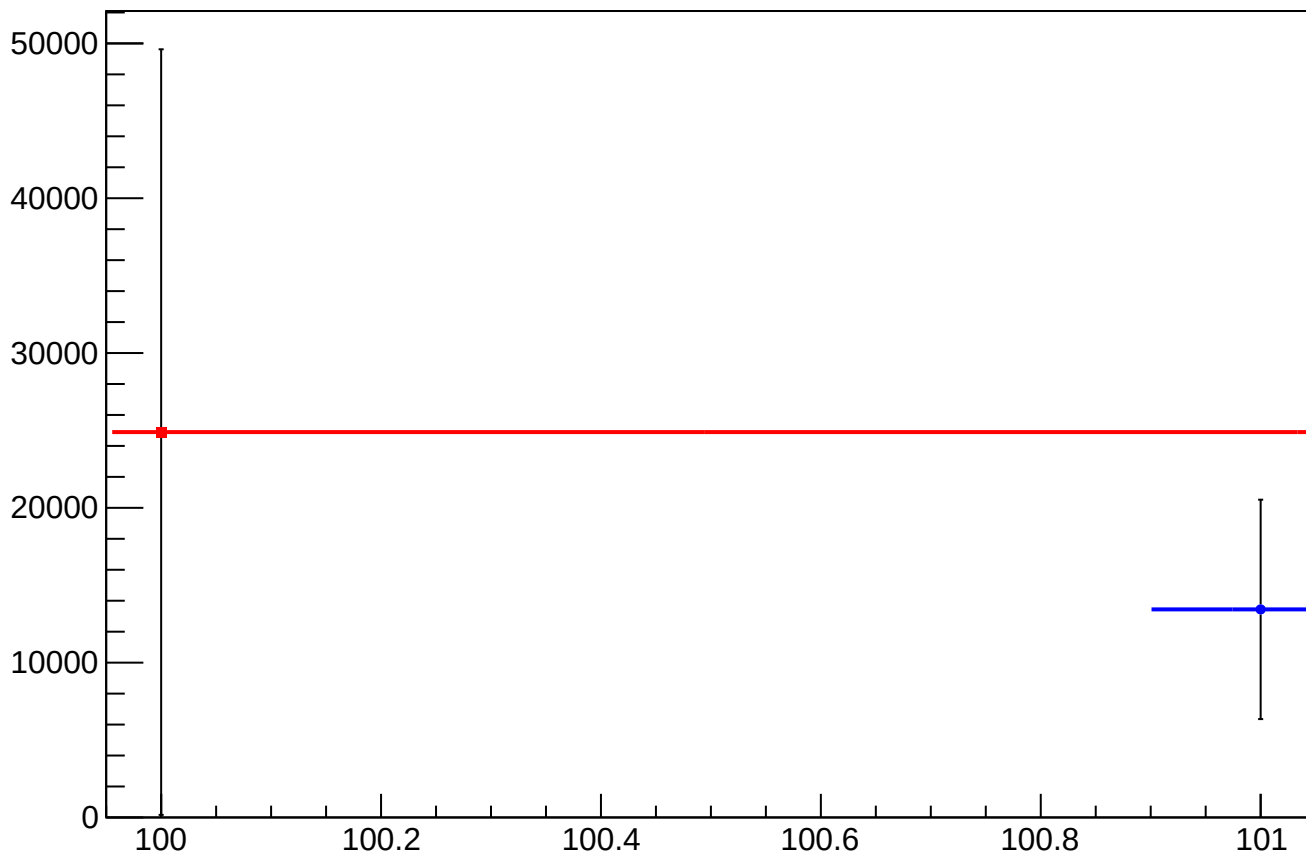
Right: 631.006+/-0.527  $\chi^2/\text{NDF}$ : 0.2/1

In: 630.925+/-0.556  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 631.006+/-0.527  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_dit\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 13440.246+/-7086.082  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24893.364+/-24727.276  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

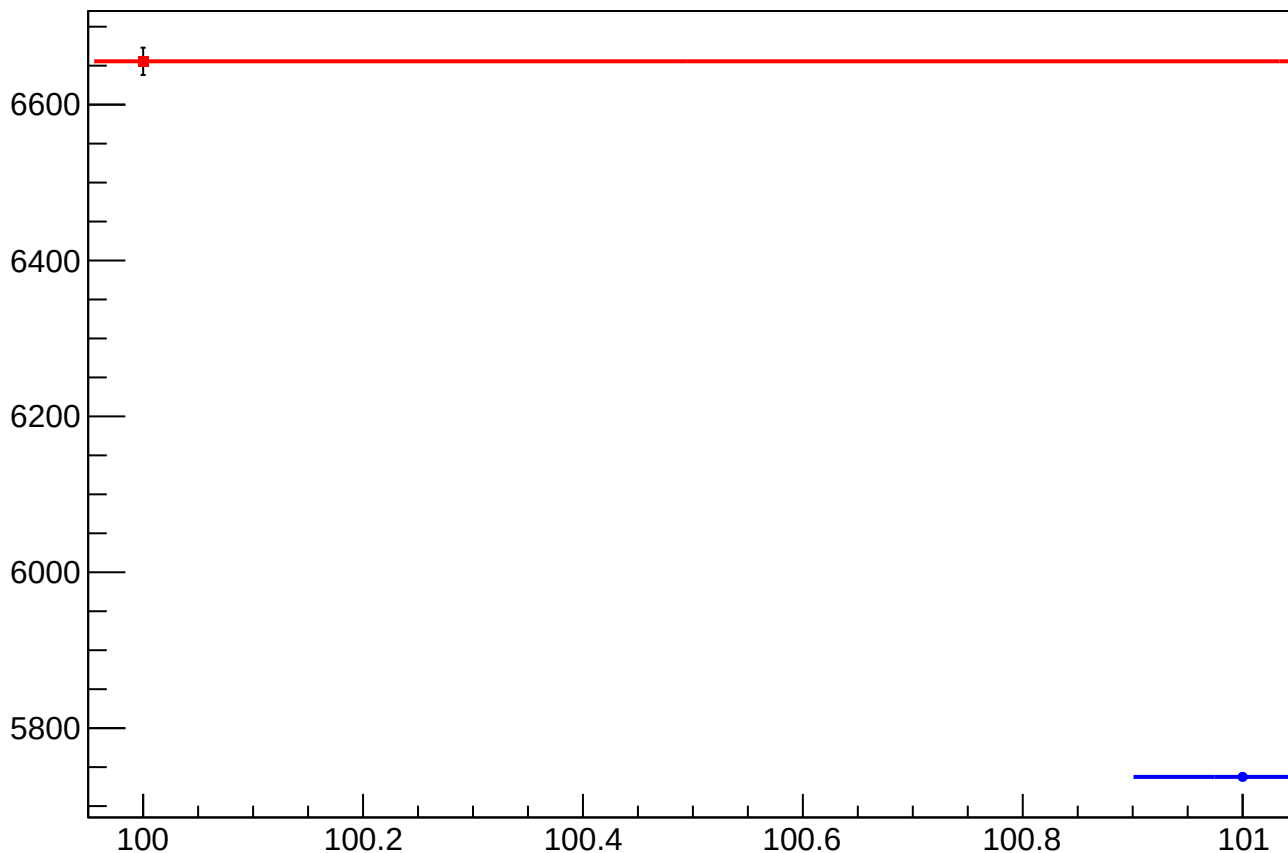
Right: 14309.421+/-6811.896  $\chi^2/\text{NDF}$ : 0.2/1

In: 13440.246+/-7086.082  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14309.421+/-6811.896  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_dit\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 5737.473+/-5.011  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6655.598+/-17.485  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

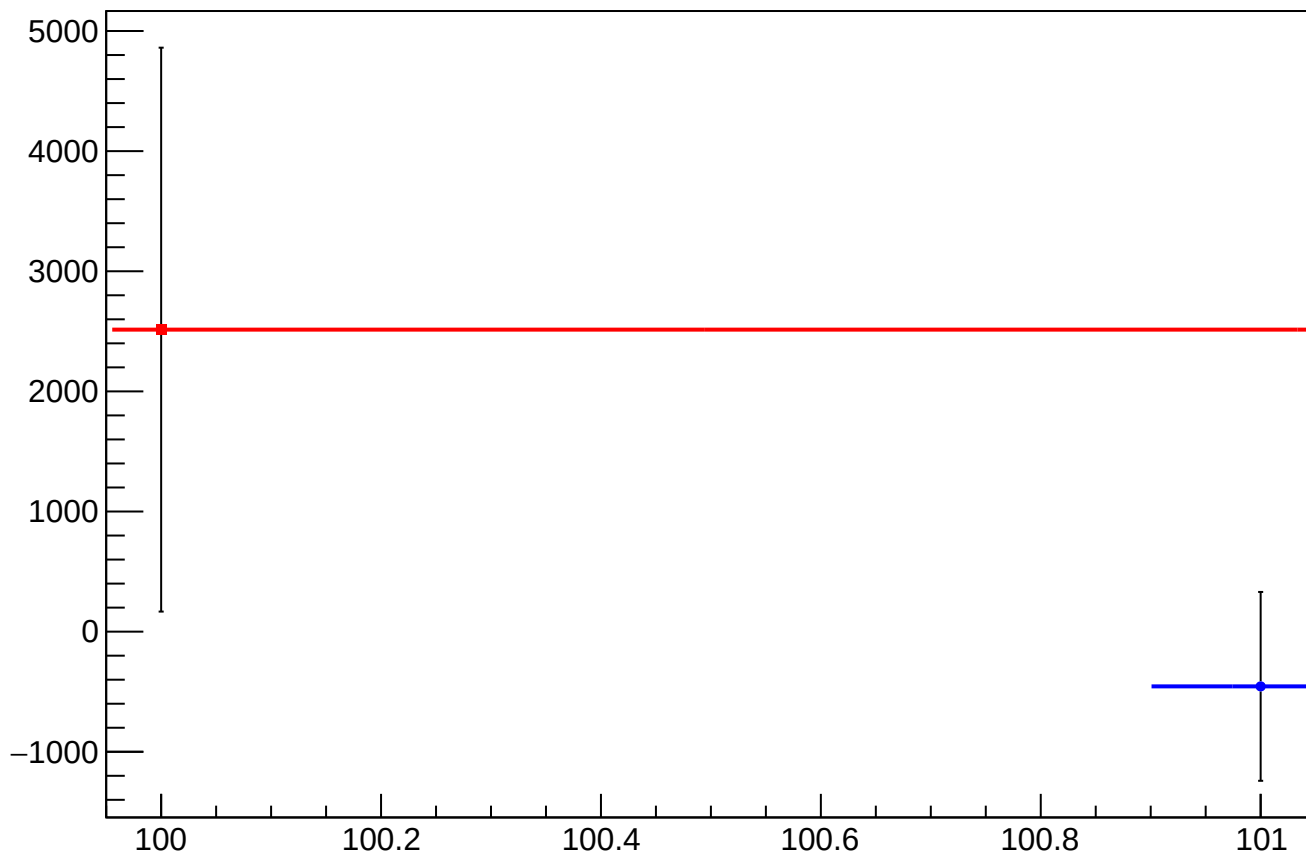
Right: 5807.150+/-4.817  $\chi^2/\text{NDF}$ : 2548.0/1

In: 5737.473+/-5.011  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5807.150+/-4.817  $\chi^2/\text{NDF}$ : 2548.0/1

asym\_at1\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -455.574+/-786.019  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2514.106+/-2347.125  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

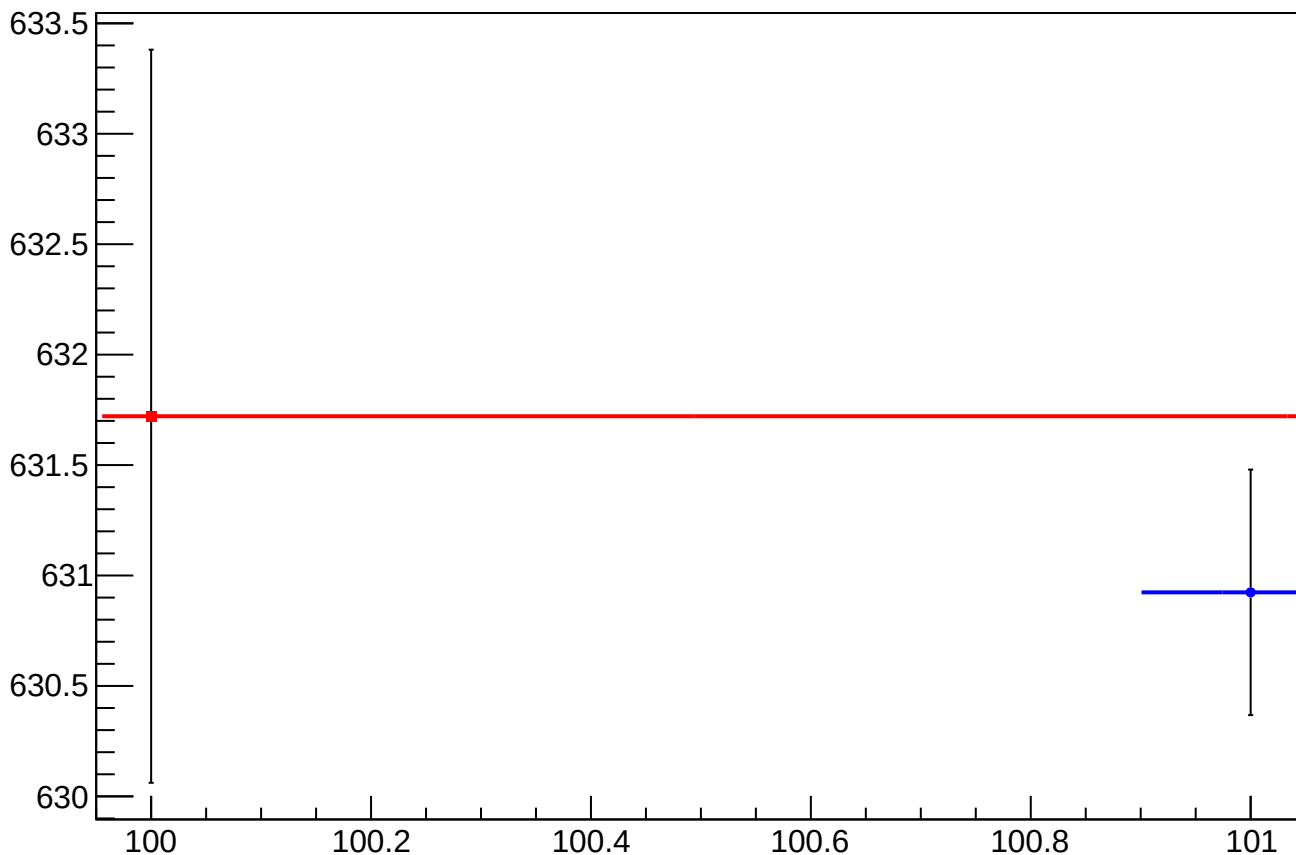
Right: -156.113+/-745.335  $\chi^2$ /NDF: 1.4/1

In: -455.574+/-786.019  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -156.113+/-745.335  $\chi^2$ /NDF: 1.4/1

asym\_at1\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 630.924 $\pm$ 0.556  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 631.721 $\pm$ 1.660  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 631.004 $\pm$ 0.527  $\chi^2$ /NDF: 0.2/1

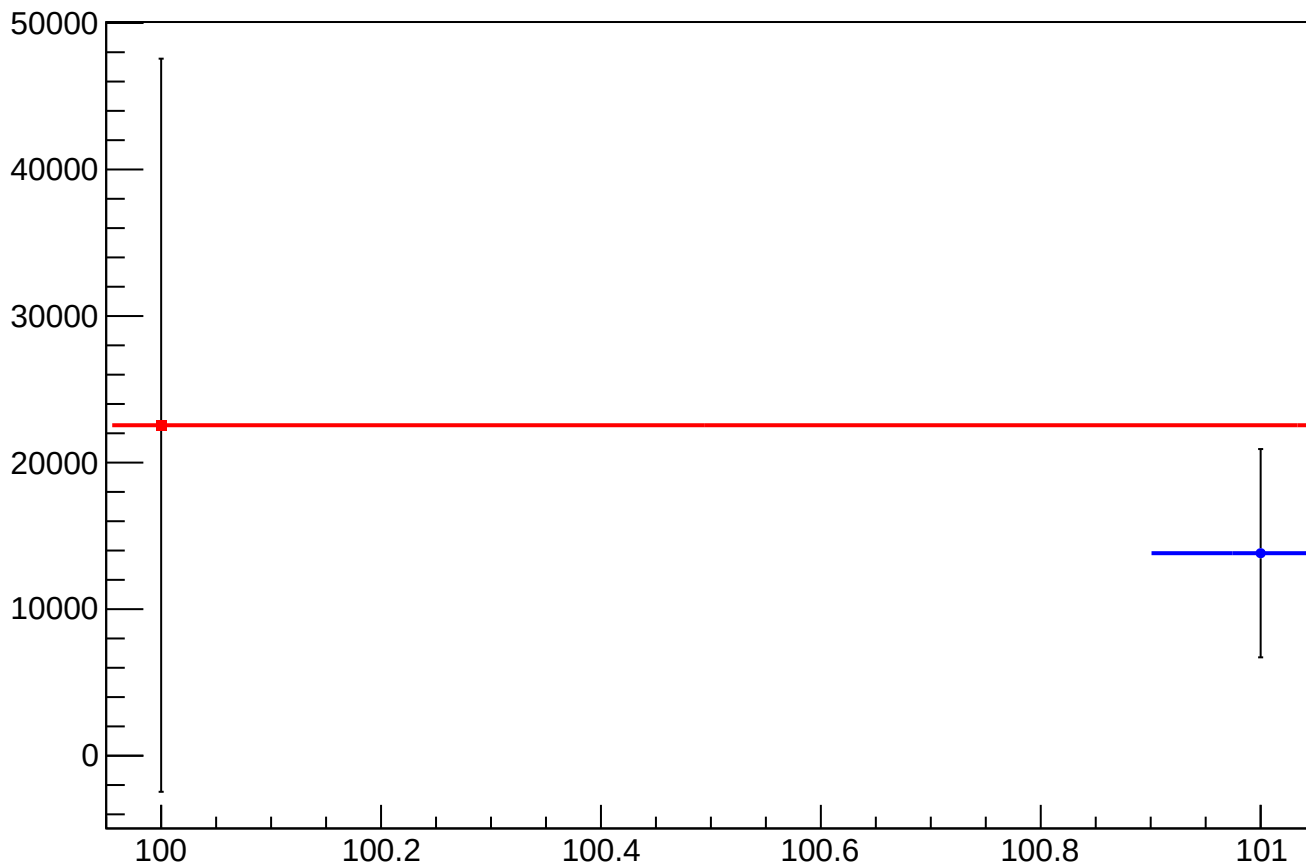
In: 630.924 $\pm$ 0.556  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 631.004 $\pm$ 0.527  $\chi^2$ /NDF: 0.2/1



# asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 13818.625+/-7106.281  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22549.549+/-25011.571  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

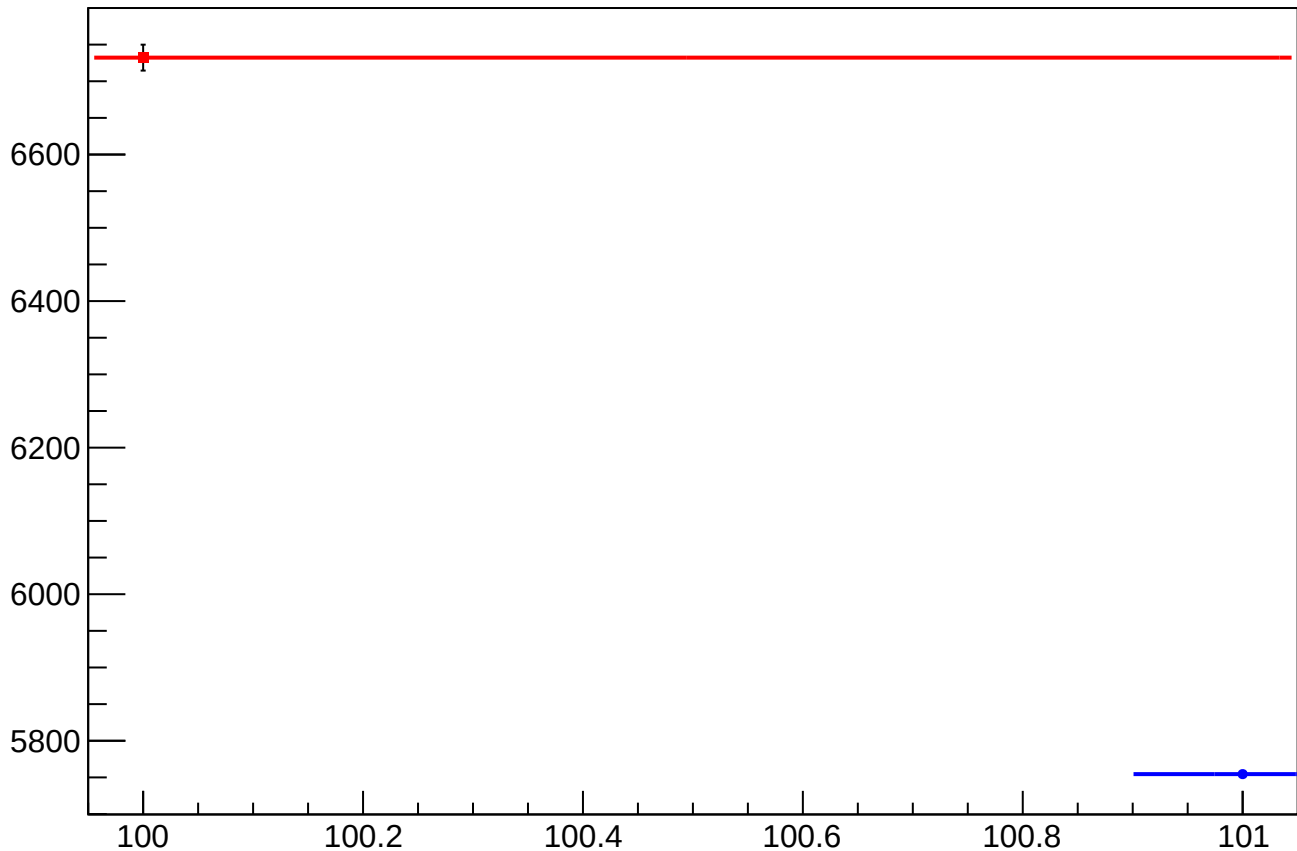
Right: 14470.776+/-6835.731  $\chi^2/\text{NDF}$ : 0.1/1

In: 13818.625+/-7106.281  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14470.776+/-6835.731  $\chi^2/\text{NDF}$ : 0.1/1

# asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 5754.492 $\pm$ 5.025  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6732.232 $\pm$ 17.686  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

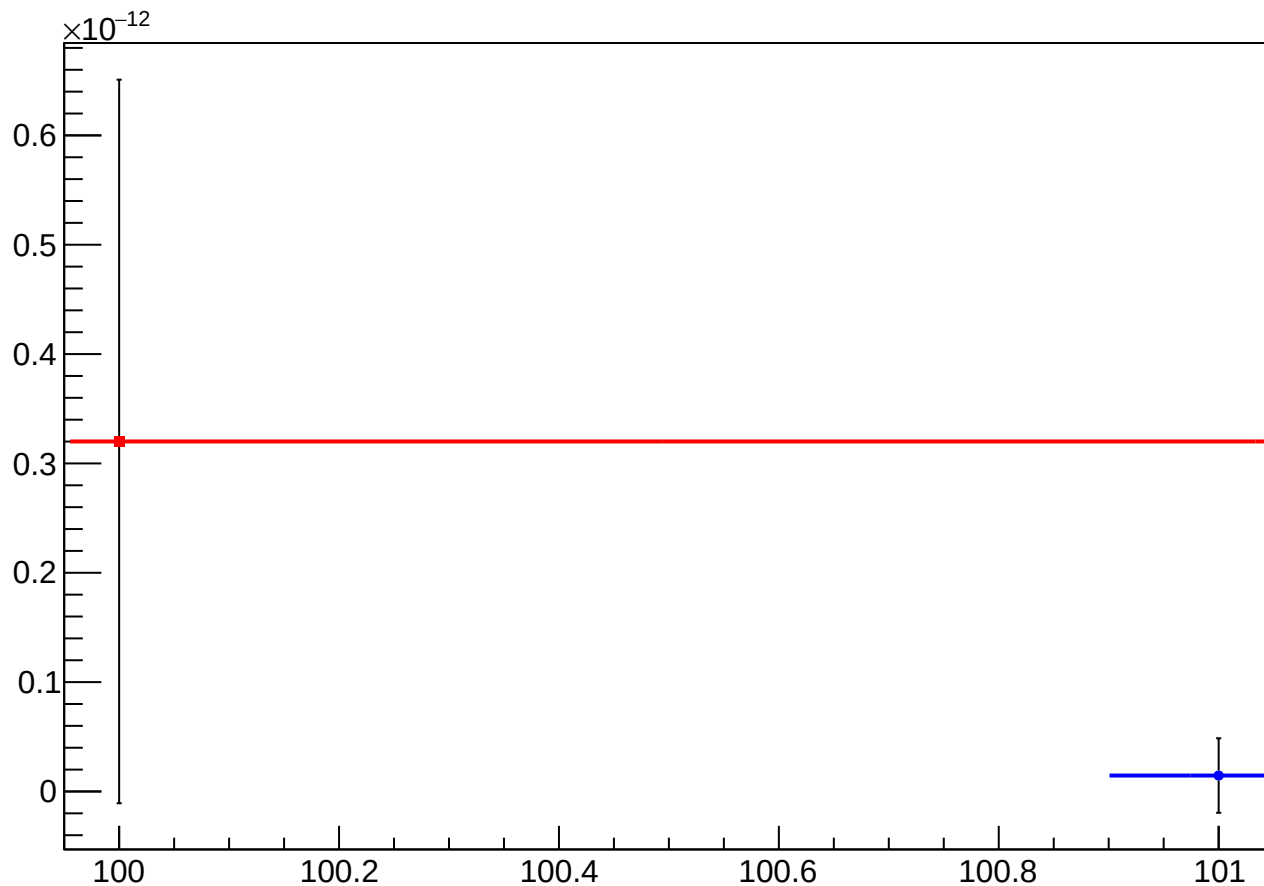
Right: 5827.524 $\pm$ 4.834  $\chi^2$ /NDF: 2828.0/1

In: 5754.492 $\pm$ 5.025  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5827.524 $\pm$ 4.834  $\chi^2$ /NDF: 2828.0/1

asym\_at1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

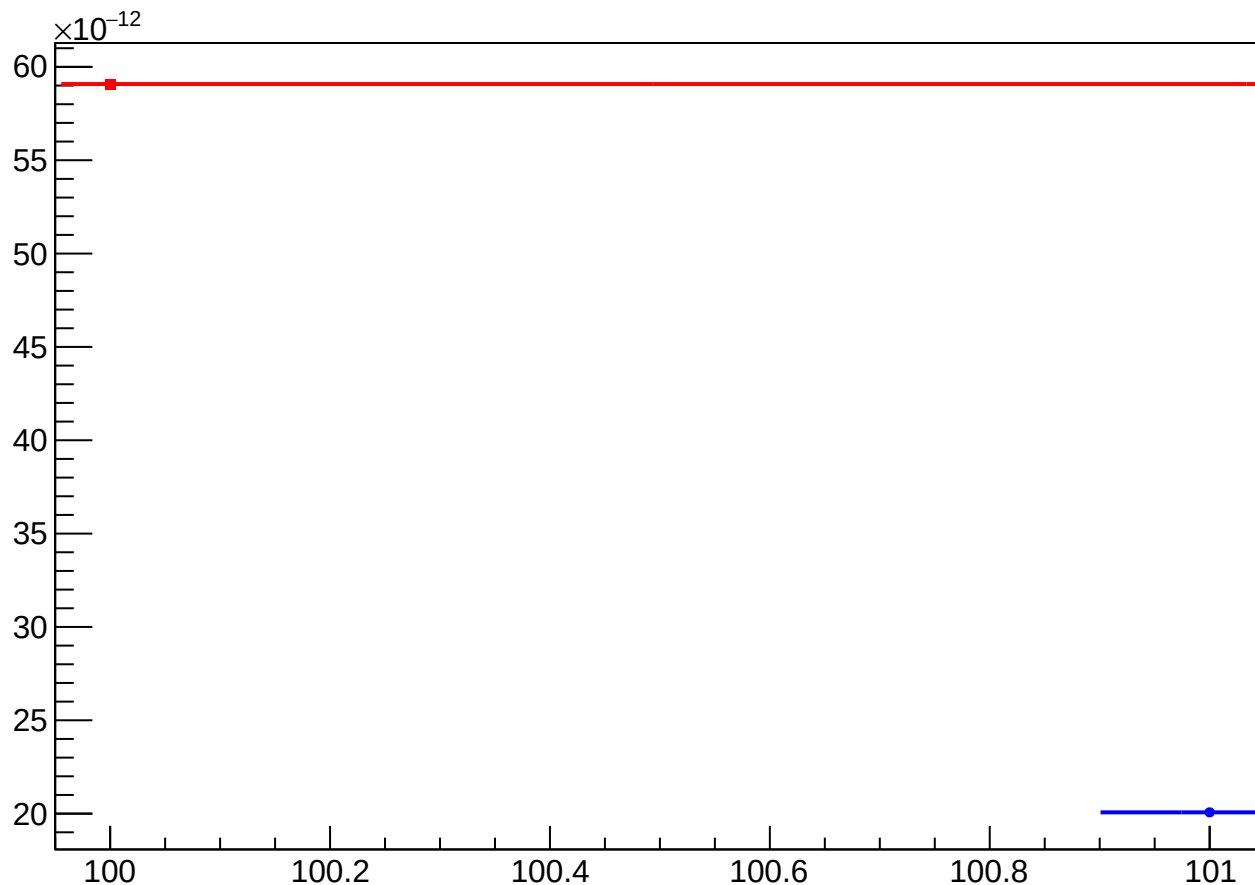
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

asym\_at1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

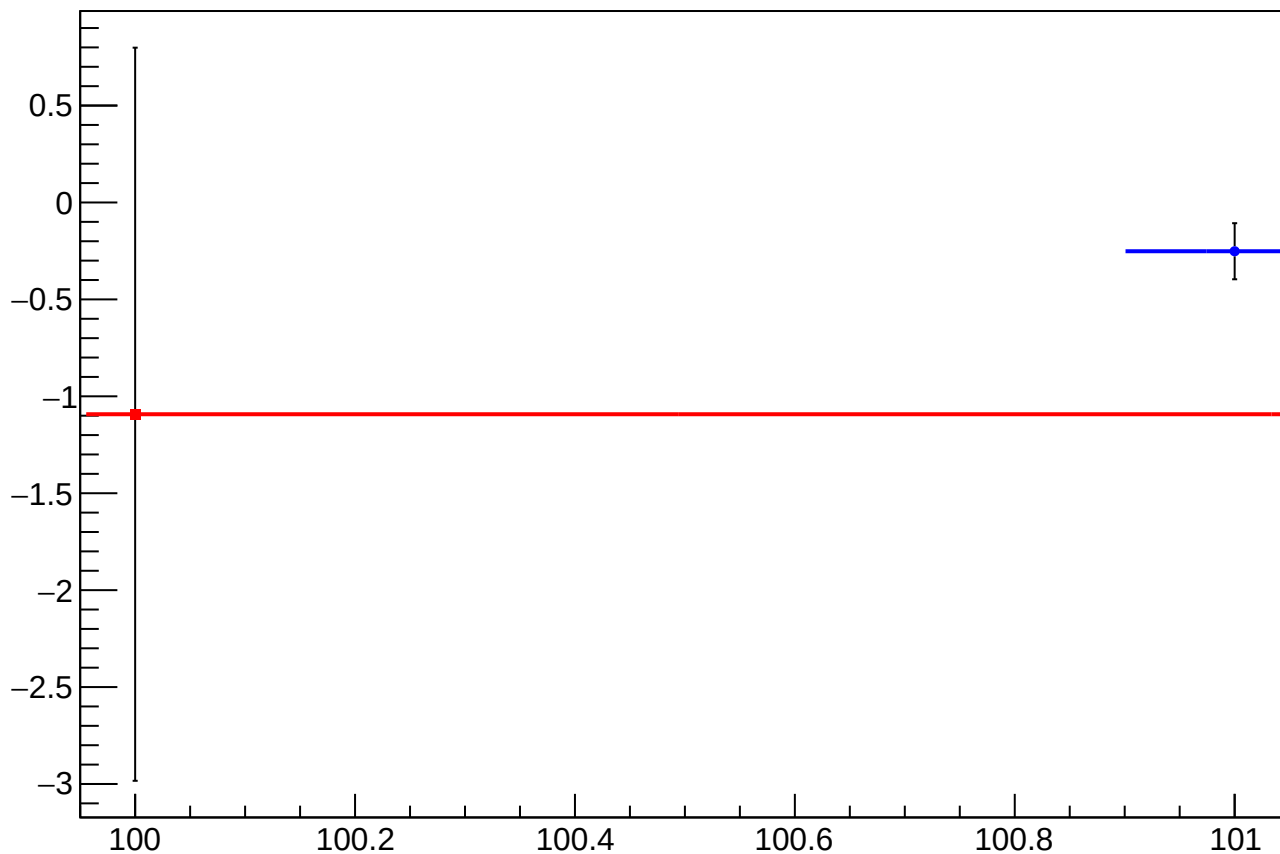
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 27515.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 27515.0/1

asym\_at1\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.252 $\pm$ 0.145  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.092 $\pm$ 1.891  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

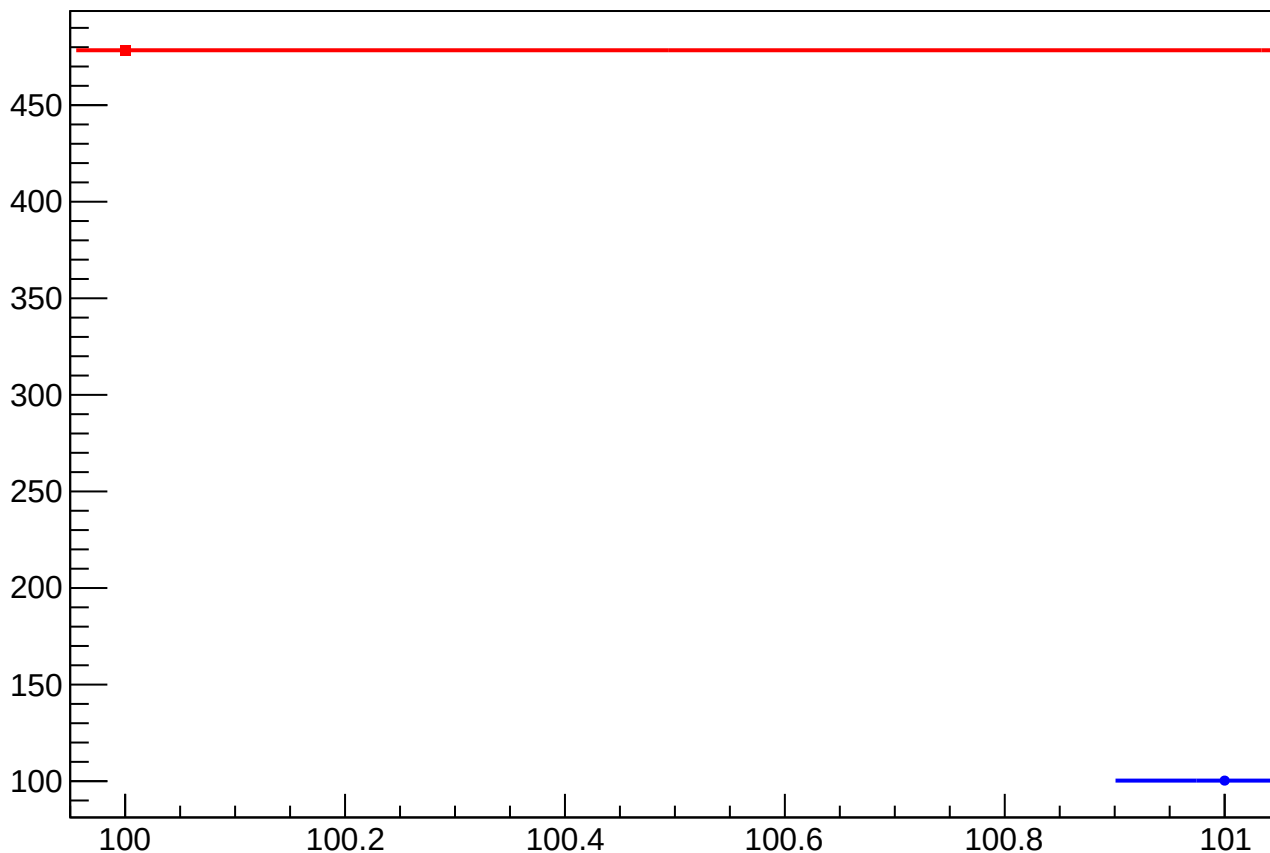
Right: -0.256 $\pm$ 0.144  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.252 $\pm$ 0.145  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.256 $\pm$ 0.144  $\chi^2/\text{NDF}$ : 0.2/1

asym\_at1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 100.295 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 478.416 $\pm$ 1.337  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

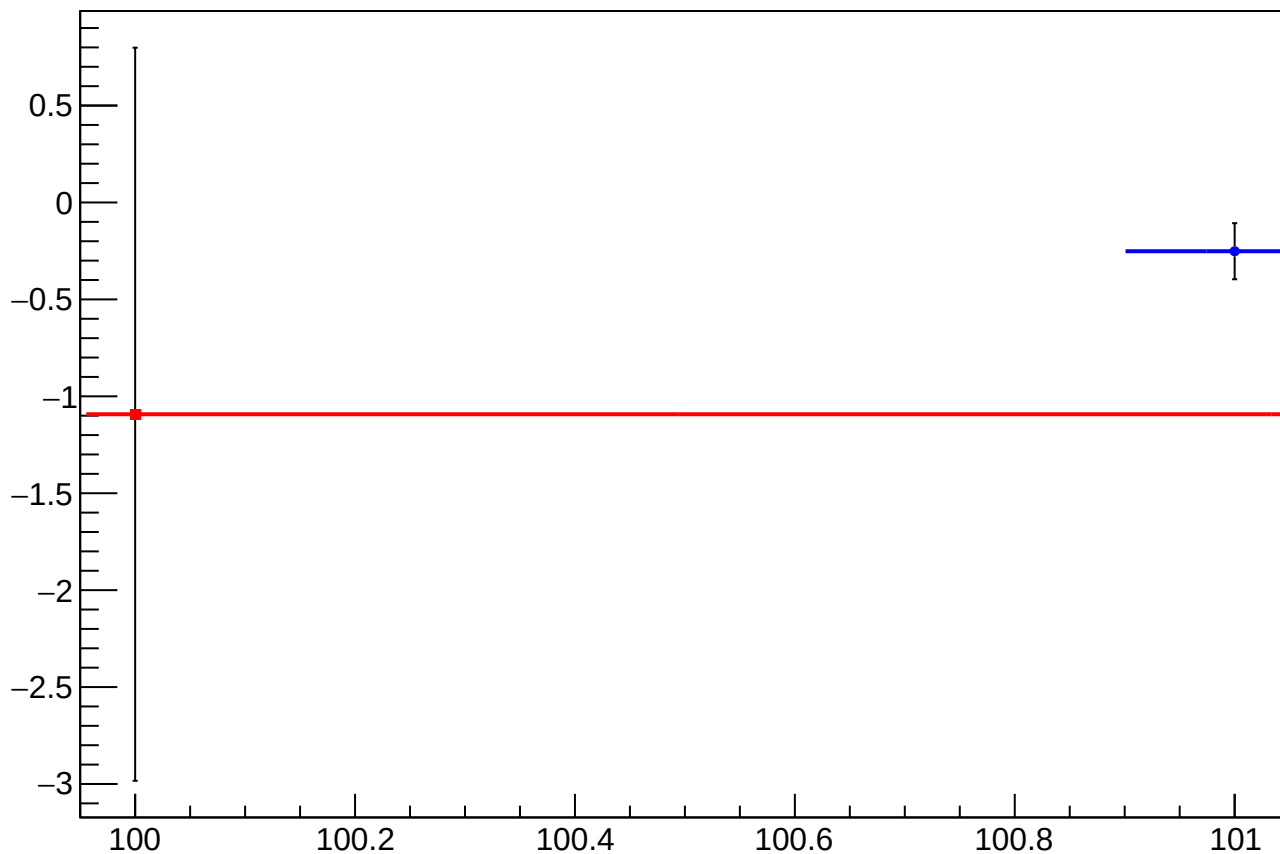
Right: 102.495 $\pm$ 0.102  $\chi^2$ /NDF: 79493.3/1

In: 100.295 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.495 $\pm$ 0.102  $\chi^2$ /NDF: 79493.3/1

asym\_at1\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.252 $\pm$ 0.145  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.092 $\pm$ 1.891  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

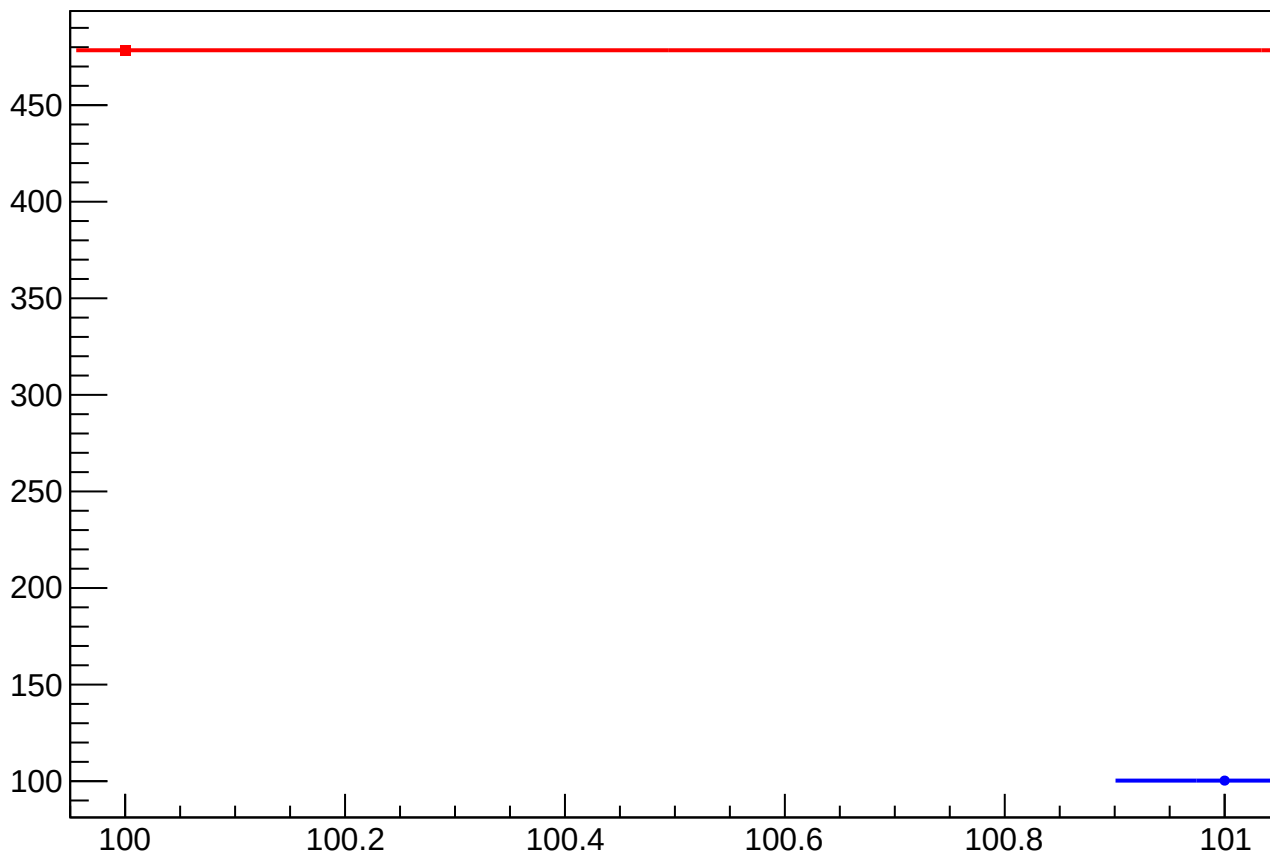
Right: -0.256 $\pm$ 0.144  $\chi^2$ /NDF: 0.2/1

In: -0.252 $\pm$ 0.145  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.256 $\pm$ 0.144  $\chi^2$ /NDF: 0.2/1

asym\_at1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 100.295 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 478.416 $\pm$ 1.337  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 102.495 $\pm$ 0.102  $\chi^2$ /NDF: 79493.3/1

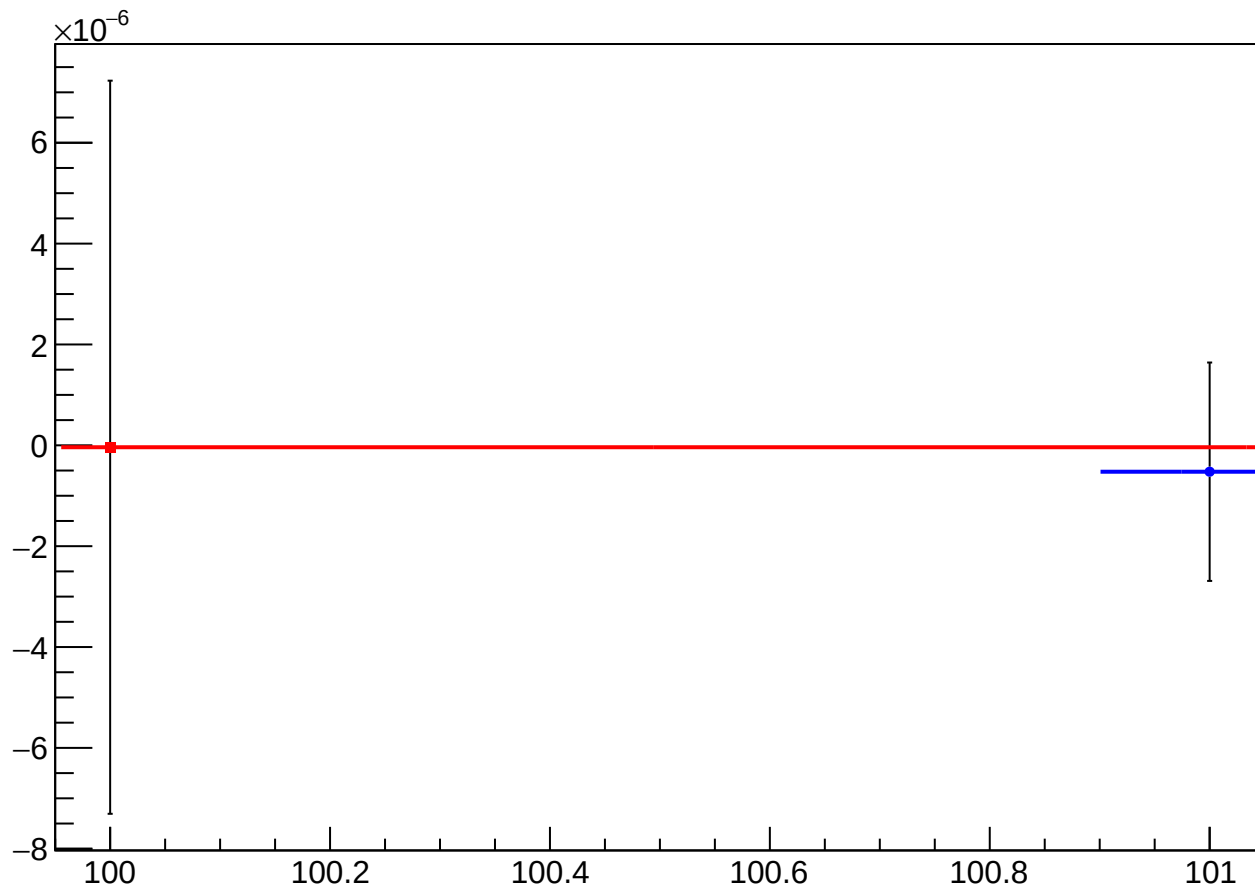
In: 100.295 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.495 $\pm$ 0.102  $\chi^2$ /NDF: 79493.3/1



asym\_at1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

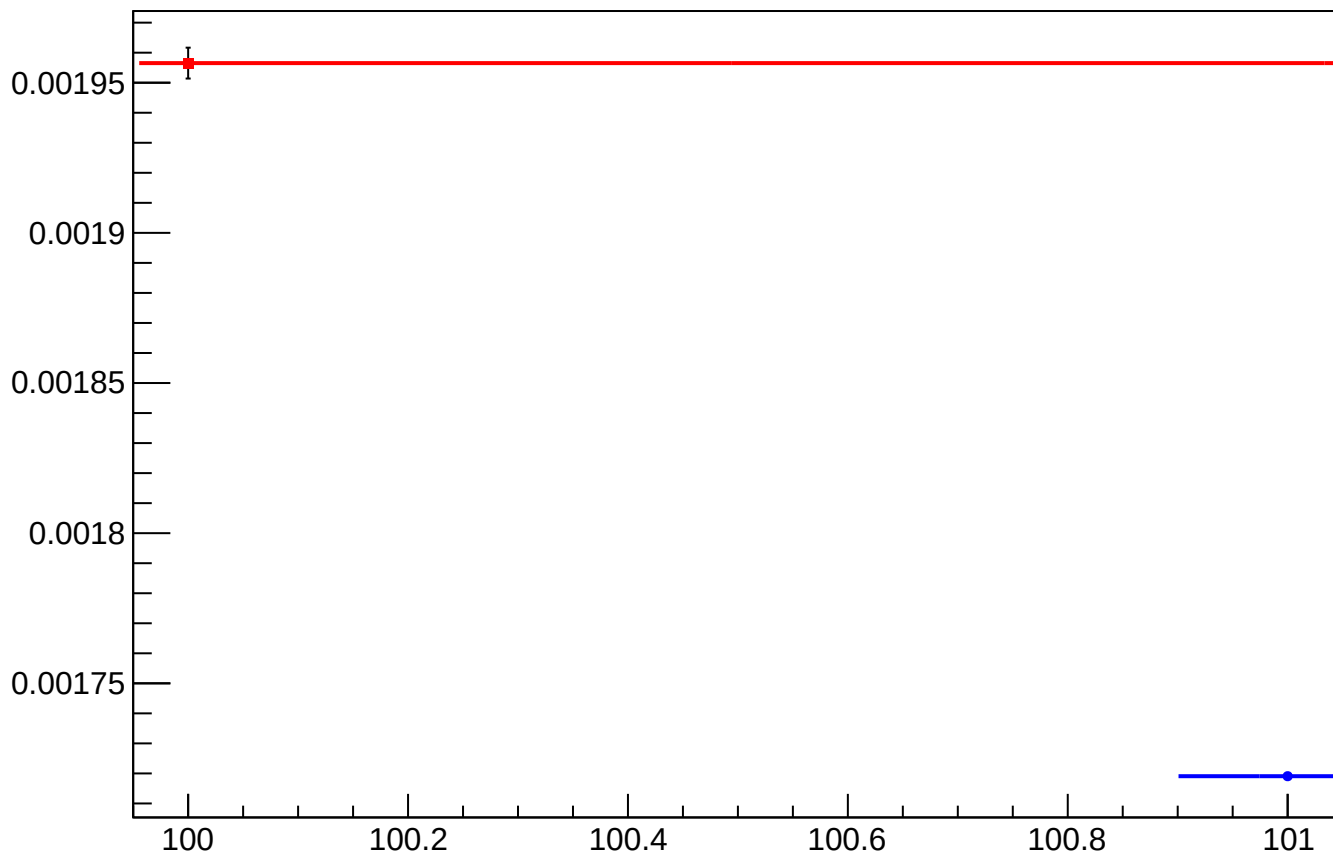
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_at1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

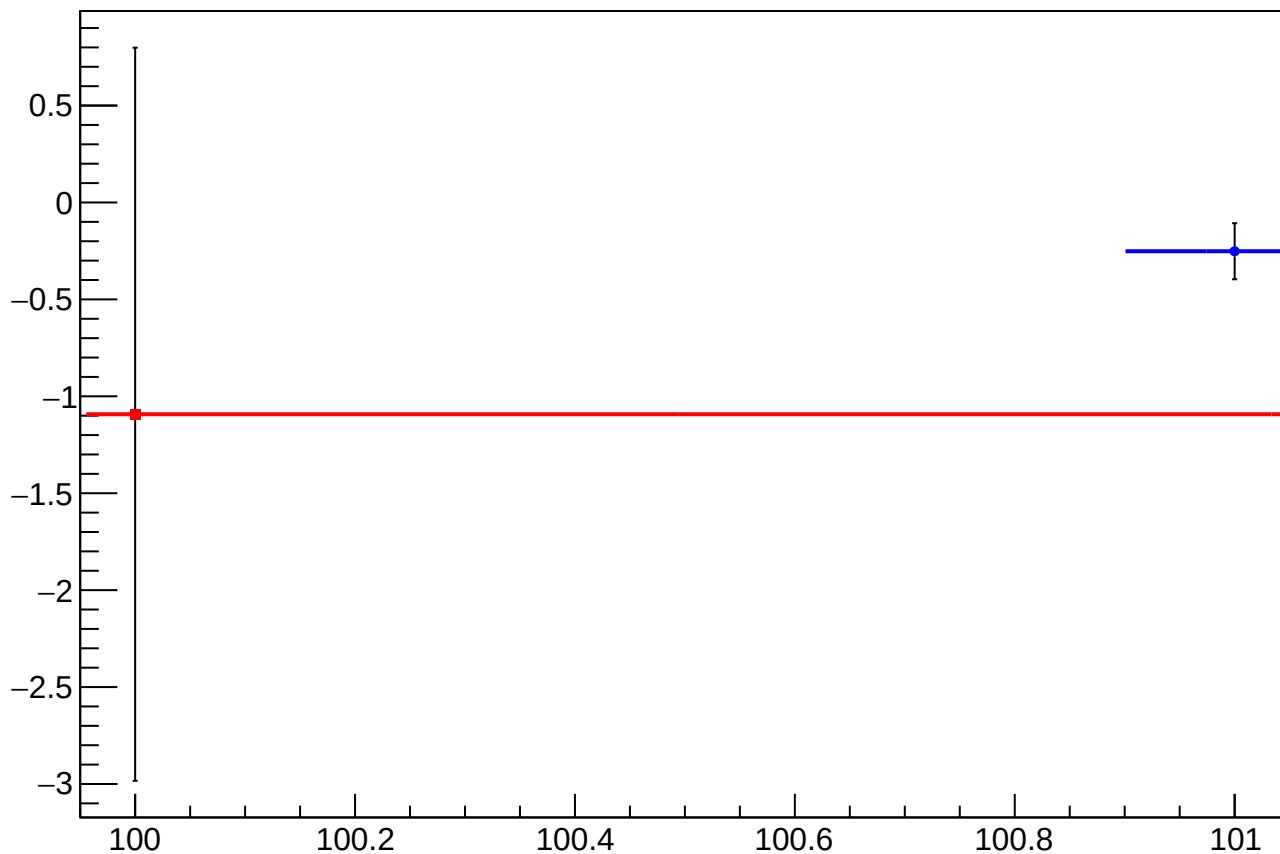
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1960.2/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1960.2/1

asym\_at1\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.252 $\pm$ 0.145  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.092 $\pm$ 1.891  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

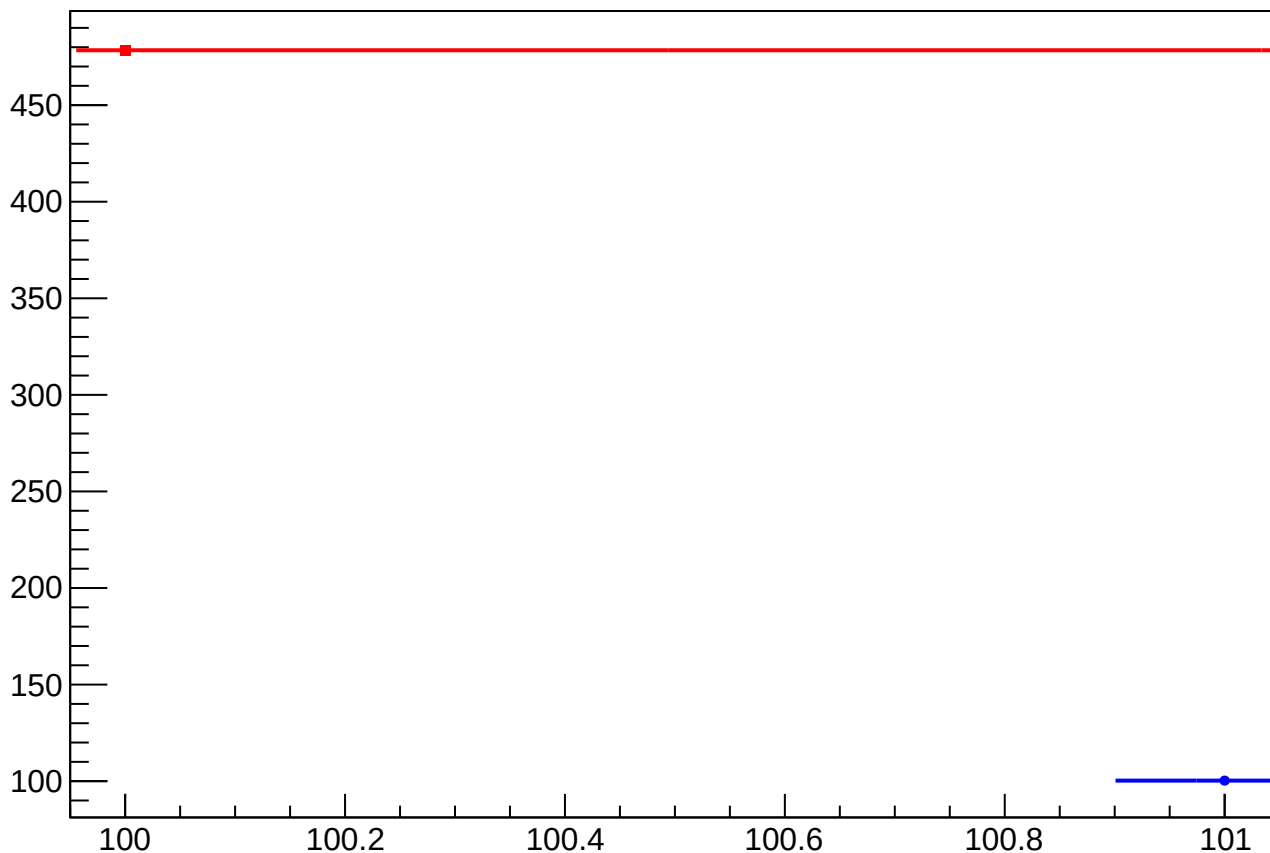
Right: -0.256 $\pm$ 0.144  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.252 $\pm$ 0.145  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.256 $\pm$ 0.144  $\chi^2/\text{NDF}$ : 0.2/1

asym\_at1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 100.295 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 478.418 $\pm$ 1.337  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

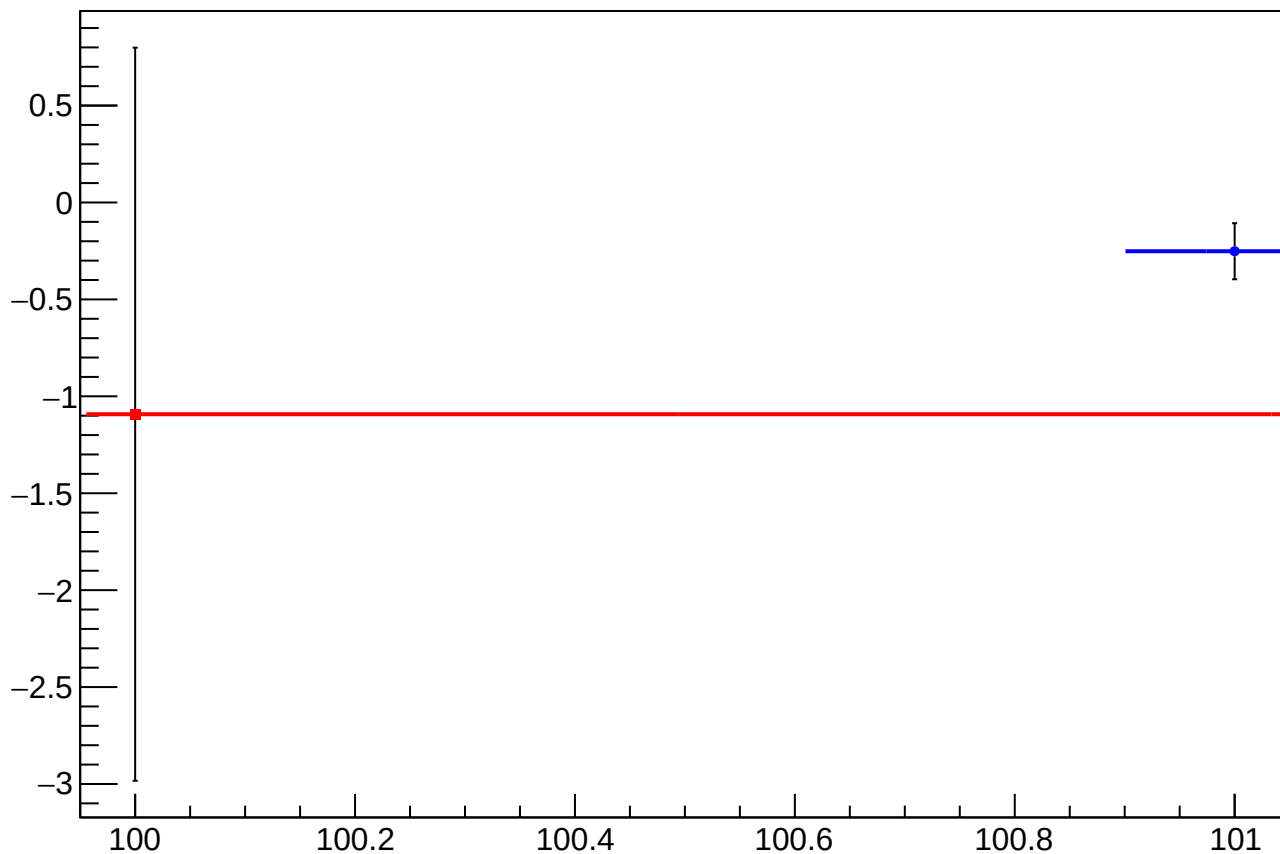
Right: 102.495 $\pm$ 0.102  $\chi^2$ /NDF: 79493.8/1

In: 100.295 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.495 $\pm$ 0.102  $\chi^2$ /NDF: 79493.8/1

asym\_at1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.252 $\pm$ 0.145  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.092 $\pm$ 1.891  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

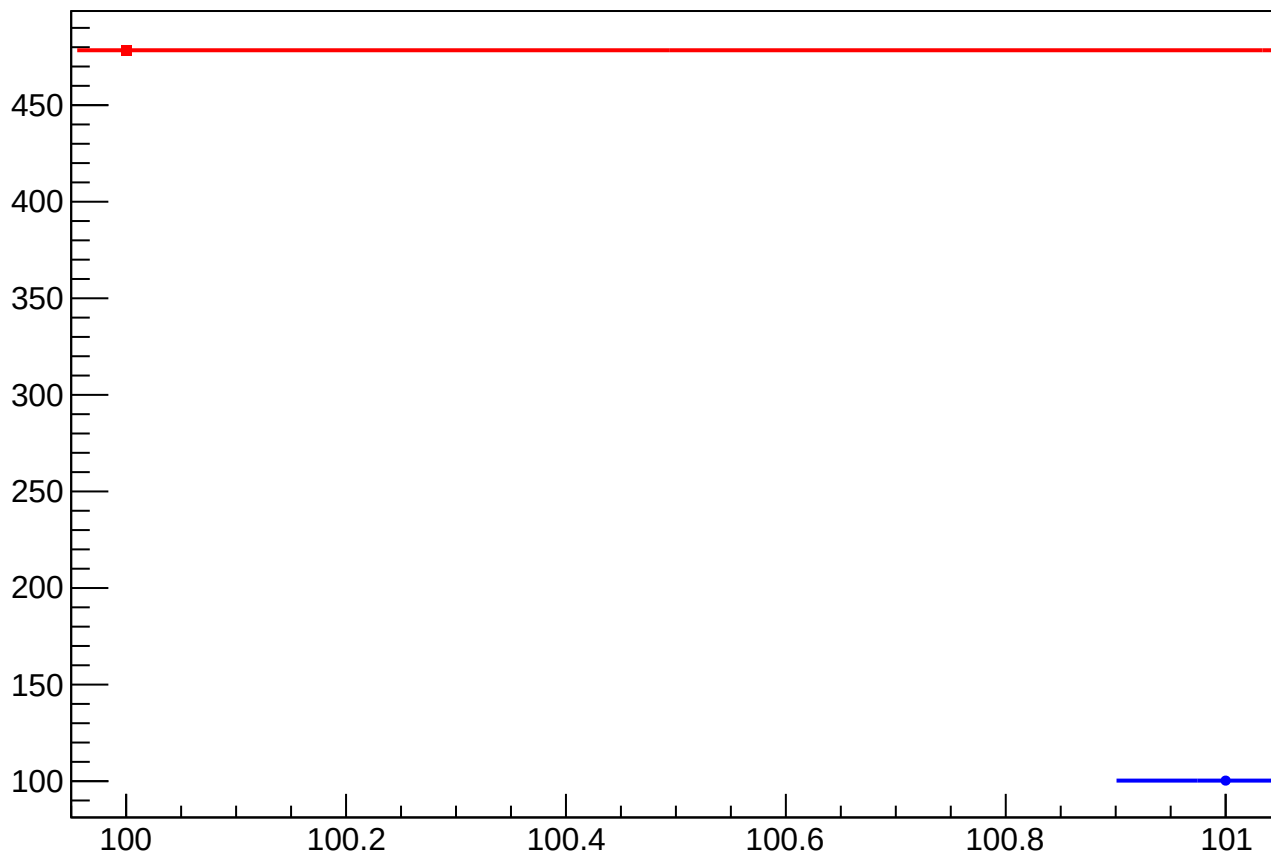
Right: -0.256 $\pm$ 0.144  $\chi^2$ /NDF: 0.2/1

In: -0.252 $\pm$ 0.145  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.256 $\pm$ 0.144  $\chi^2$ /NDF: 0.2/1

asym\_at1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 100.295 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 478.418 $\pm$ 1.337  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

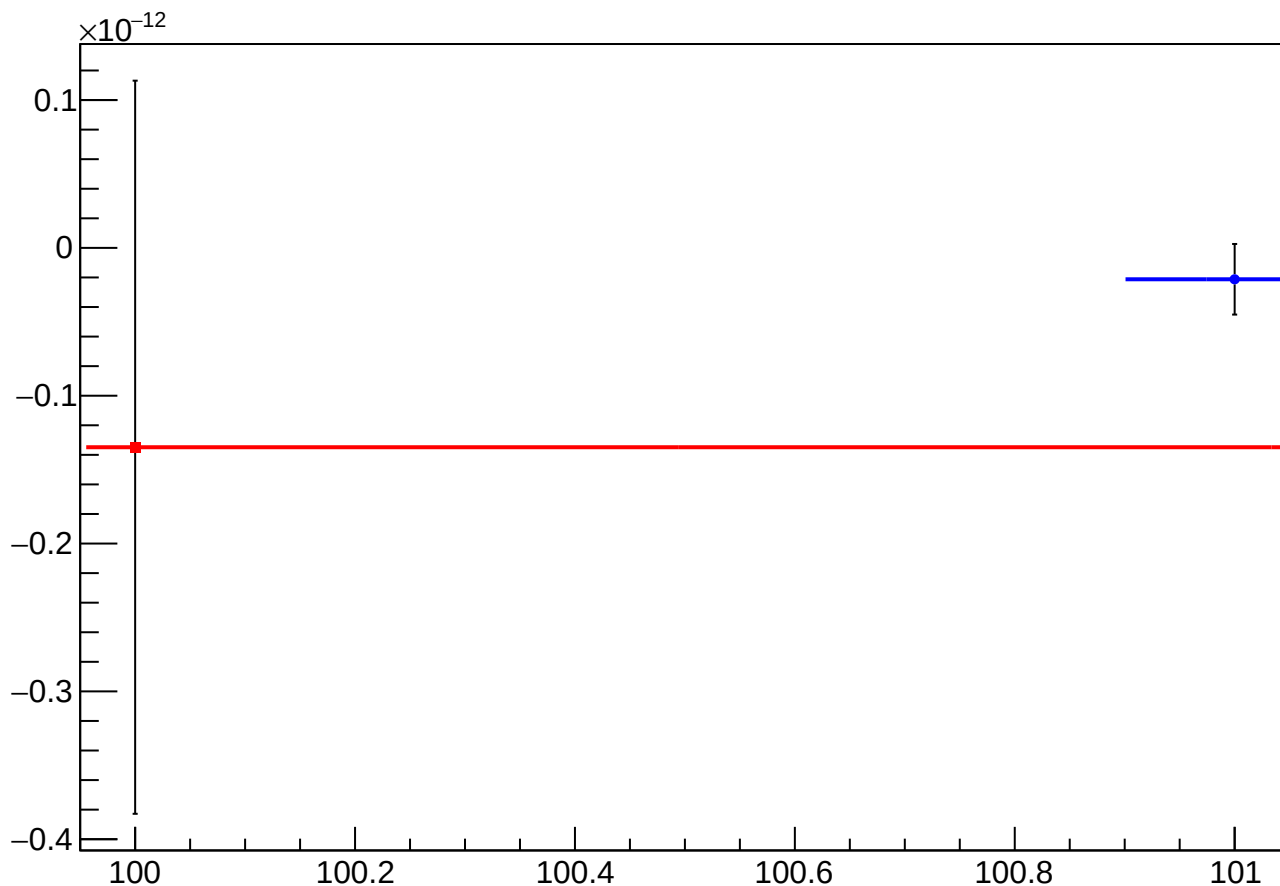
Right: 102.495 $\pm$ 0.102  $\chi^2$ /NDF: 79493.8/1

In: 100.295 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.495 $\pm$ 0.102  $\chi^2$ /NDF: 79493.8/1

asym\_at1\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

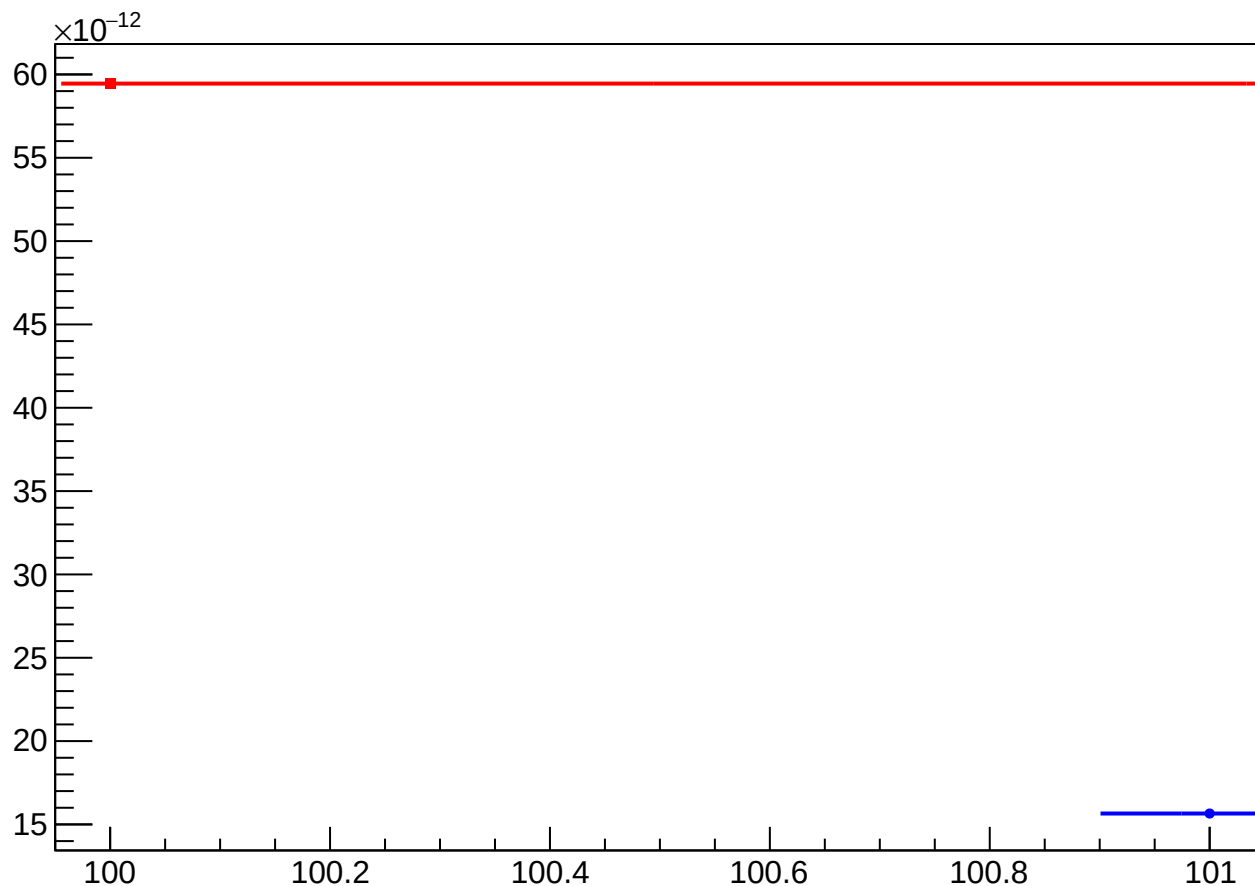
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

asym\_at1\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 61821.3/1

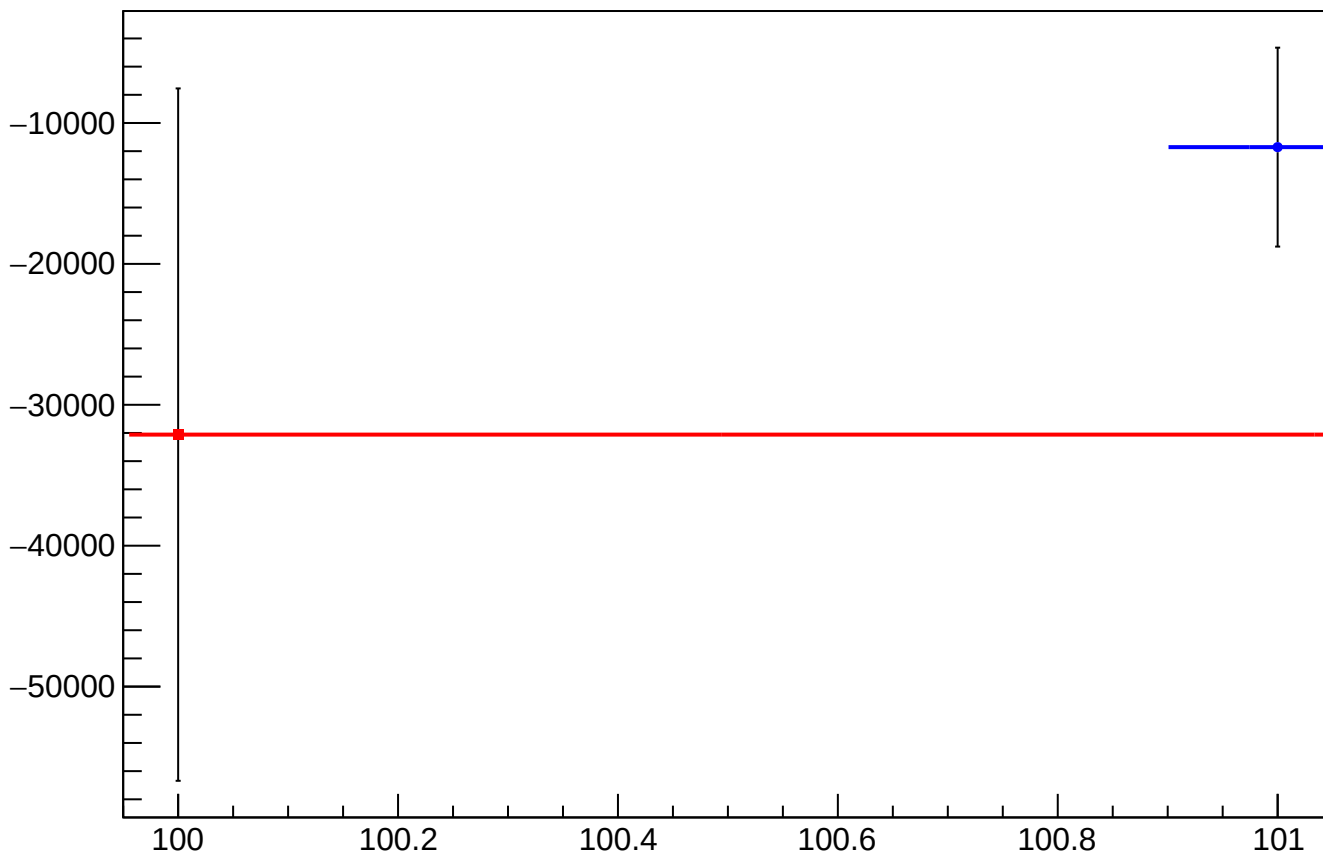
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 61821.3/1



# reg\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -11713.090+/-7058.734  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32116.121+/-24569.669  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

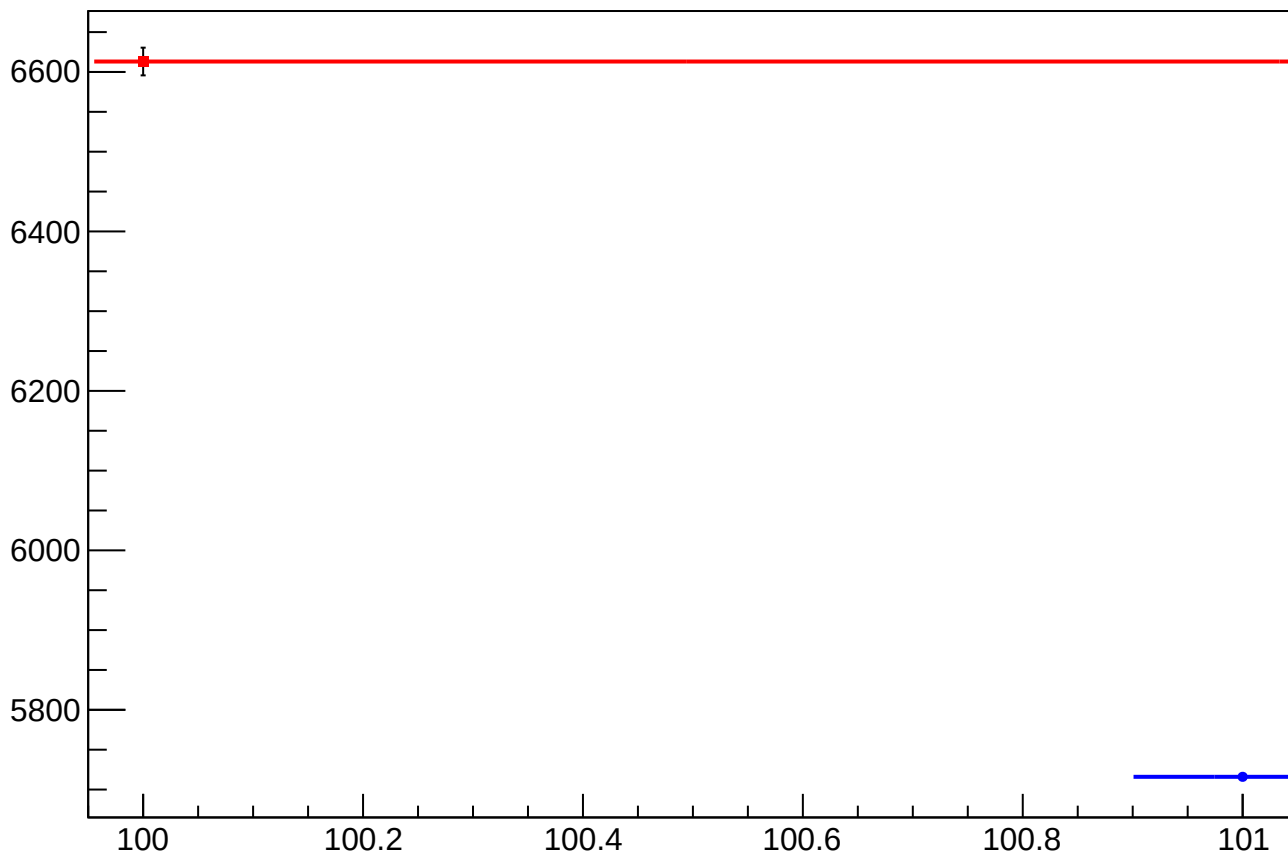
Right: -13268.720+/-6784.303  $\chi^2/\text{NDF}$ : 0.6/1

In: -11713.090+/-7058.734  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13268.720+/-6784.303  $\chi^2/\text{NDF}$ : 0.6/1

# reg\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 5715.970 $\pm$ 4.991  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6613.103 $\pm$ 17.373  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

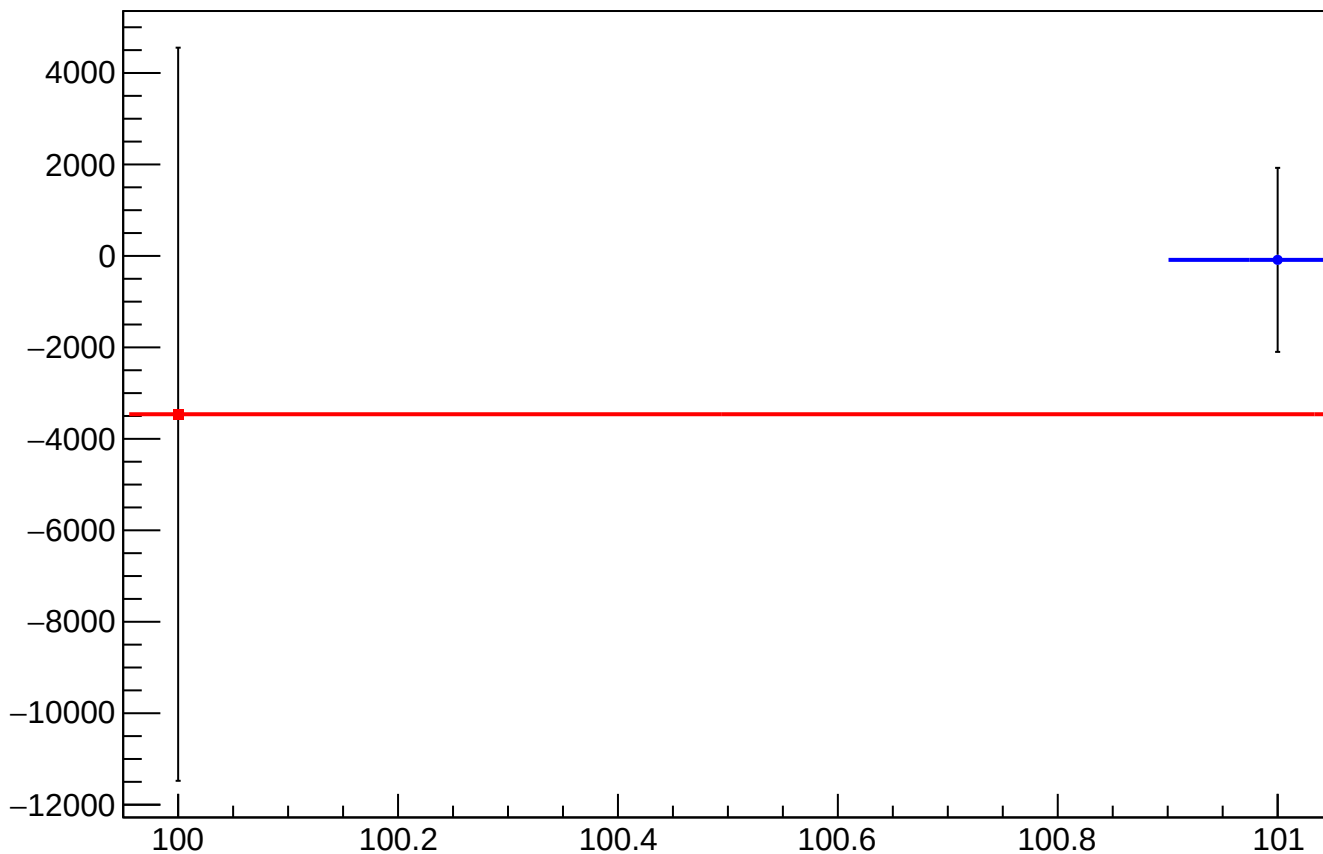
Right: 5784.372 $\pm$ 4.797  $\chi^2$ /NDF: 2463.2/1

In: 5715.970 $\pm$ 4.991  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5784.372 $\pm$ 4.797  $\chi^2$ /NDF: 2463.2/1

asym\_at1\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -86.465+/-2012.080  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3461.810+/-8015.445  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

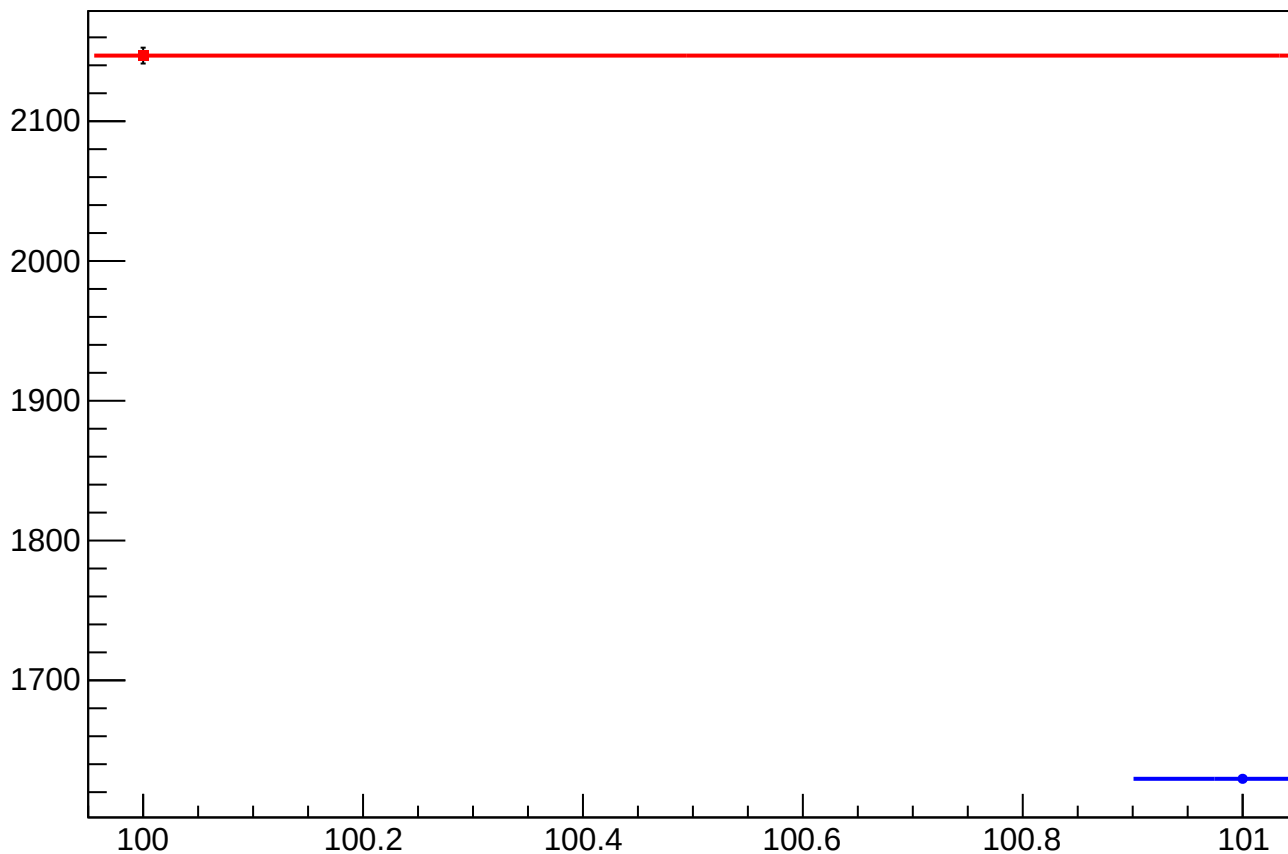
Right: -286.550+/-1951.533  $\chi^2/\text{NDF}$ : 0.2/1

In: -86.465+/-2012.080  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -286.550+/-1951.533  $\chi^2/\text{NDF}$ : 0.2/1

asym\_at1\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1629.549+/-1.423  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2146.947+/-5.668  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

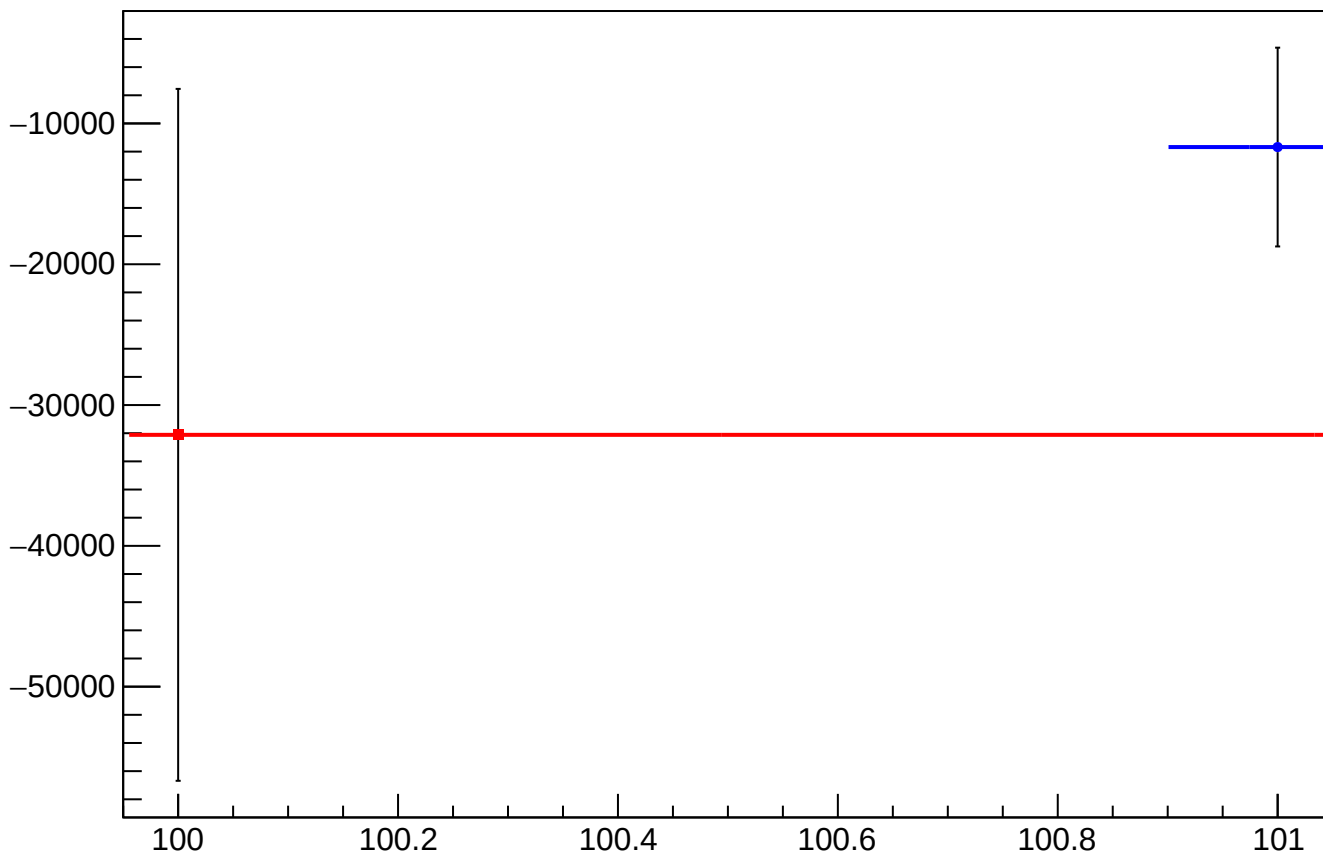
Right: 1660.219+/-1.380  $\chi^2/\text{NDF}$ : 7839.5/1

In: 1629.549+/-1.423  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1660.219+/-1.380  $\chi^2/\text{NDF}$ : 7839.5/1

cor\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -11677.228+/-7058.764  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32115.952+/-24569.669  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

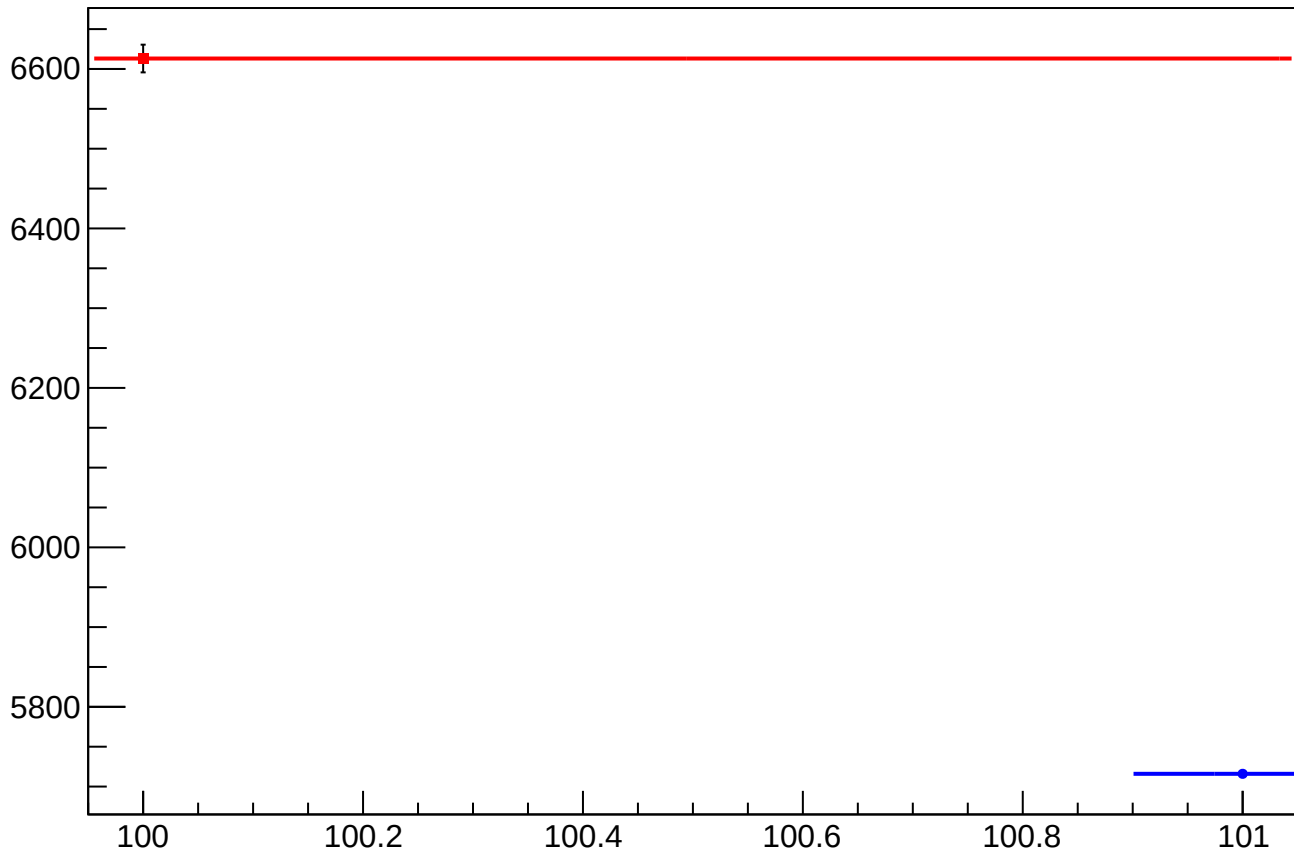
Right: -13235.592+/-6784.329  $\chi^2/\text{NDF}$ : 0.6/1

In: -11677.228+/-7058.764  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13235.592+/-6784.329  $\chi^2/\text{NDF}$ : 0.6/1

# cor\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 5715.986 $\pm$ 4.991  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6613.103 $\pm$ 17.373  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

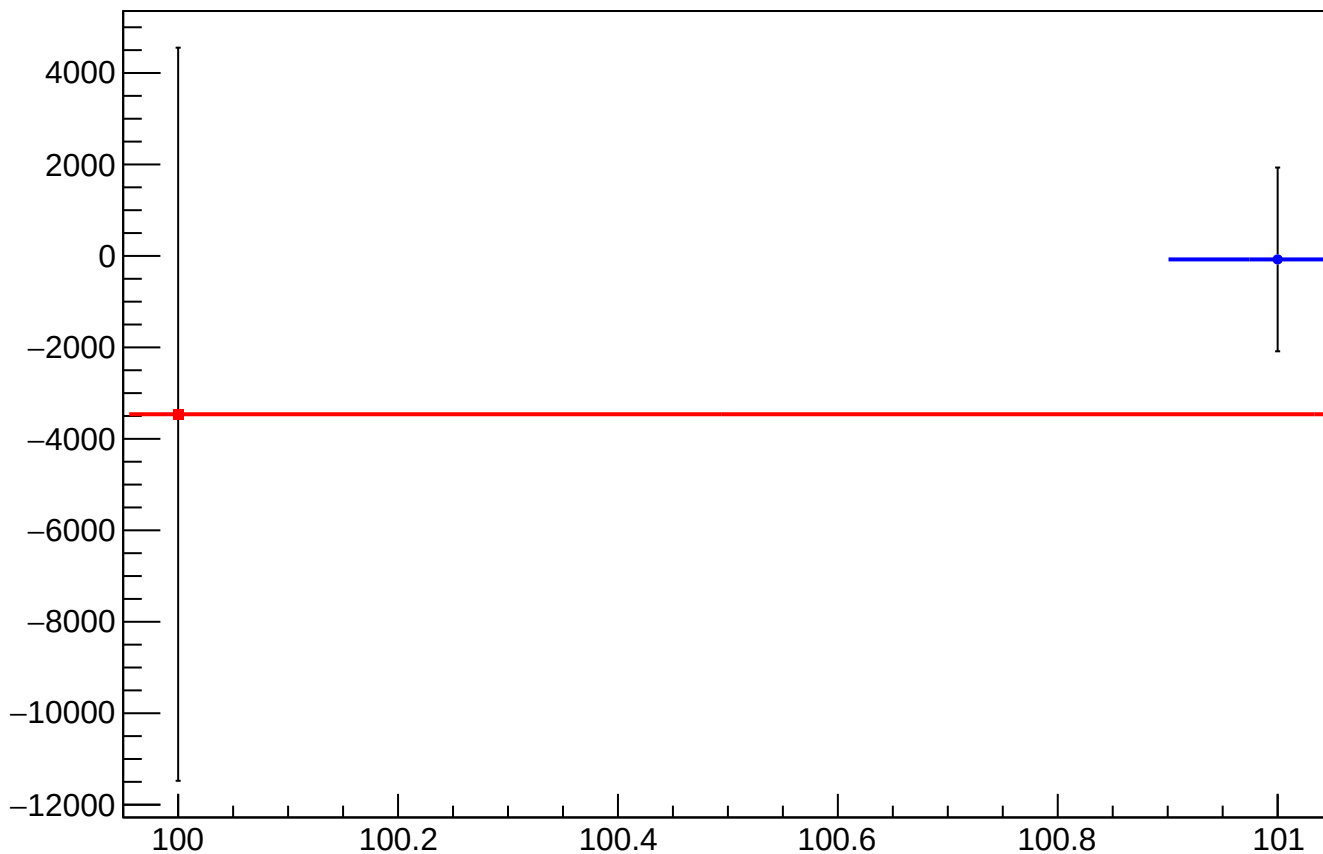
Right: 5784.387 $\pm$ 4.797  $\chi^2$ /NDF: 2463.1/1

In: 5715.986 $\pm$ 4.991  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5784.387 $\pm$ 4.797  $\chi^2$ /NDF: 2463.1/1

asym\_at1\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -76.452+/-2009.119  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3461.654+/-8015.453  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

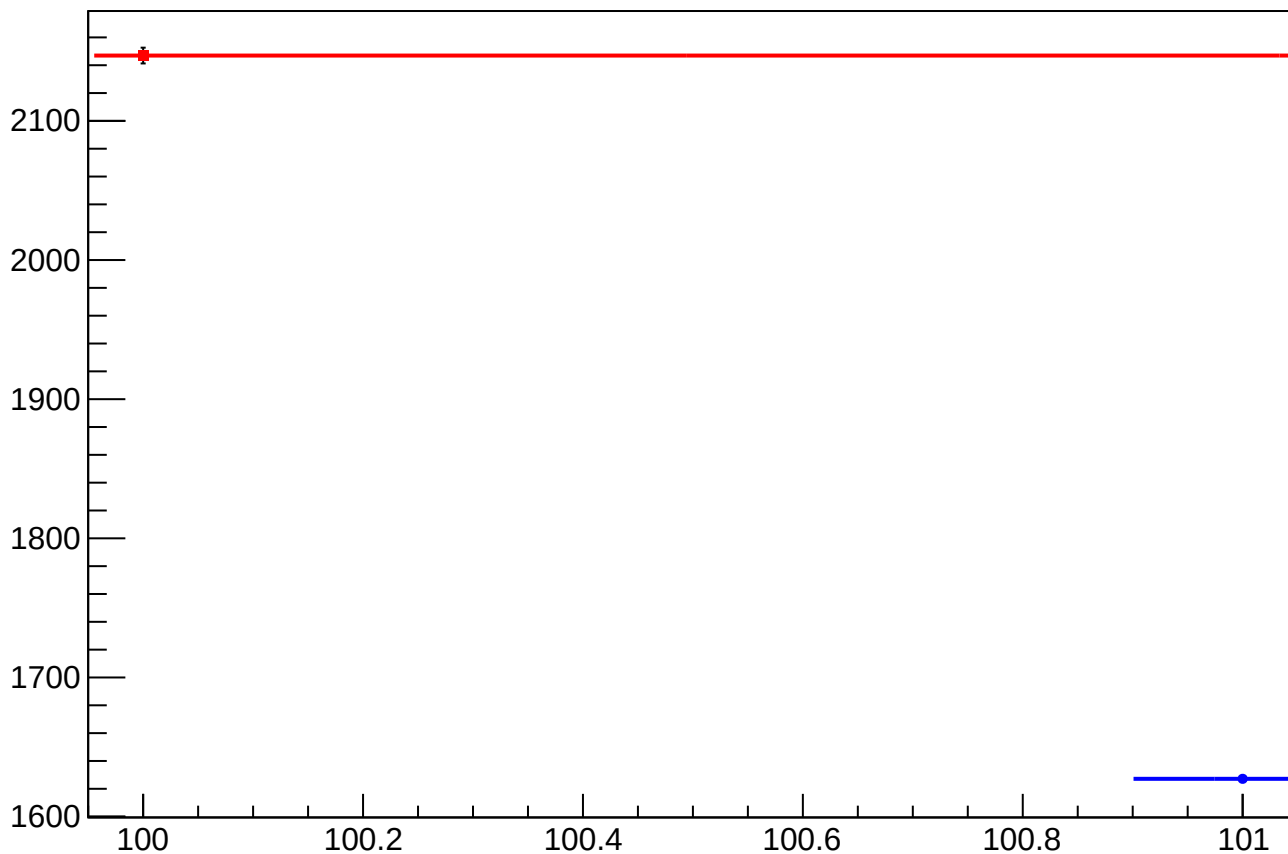
Right: -276.565+/-1948.831  $\chi^2$ /NDF: 0.2/1

In: -76.452+/-2009.119  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -276.565+/-1948.831  $\chi^2$ /NDF: 0.2/1

asym\_at1\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1627.168 $\pm$ 1.421  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2146.949 $\pm$ 5.668  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1657.895 $\pm$ 1.378  $\chi^2$ /NDF: 7913.2/1

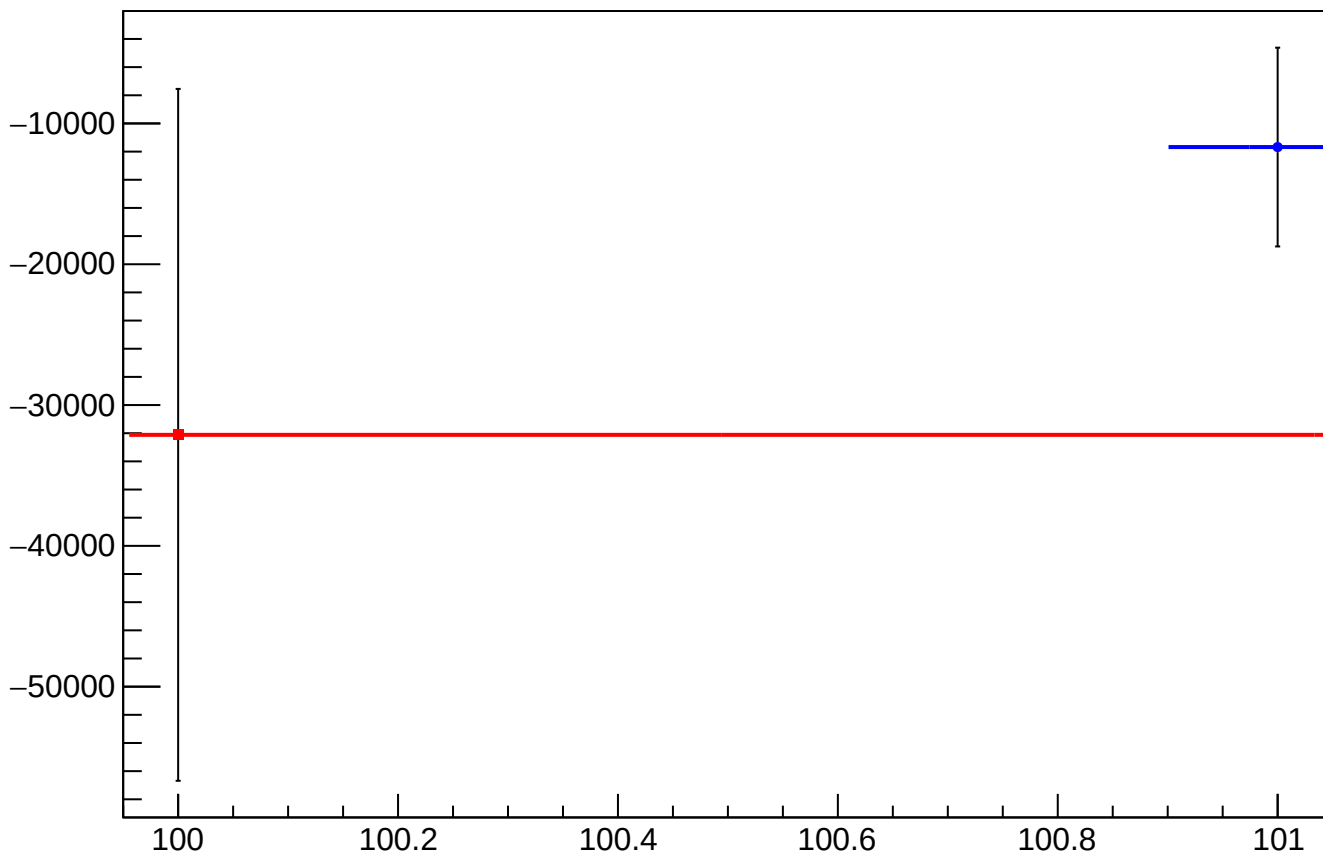
In: 1627.168 $\pm$ 1.421  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1657.895 $\pm$ 1.378  $\chi^2$ /NDF: 7913.2/1



eigen\_cor\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -11677.228+/-7058.764  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32115.952+/-24569.669  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

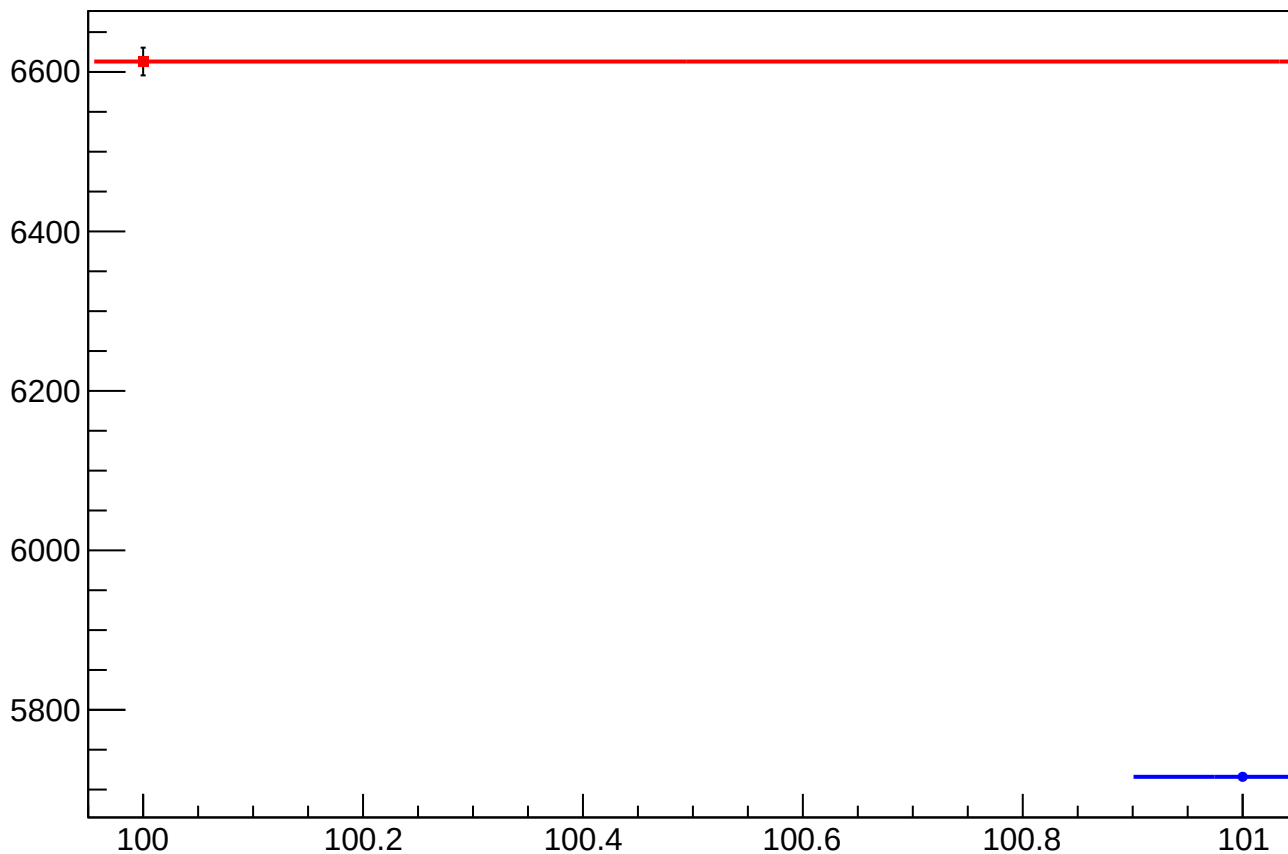
Right: -13235.592+/-6784.329  $\chi^2/\text{NDF}$ : 0.6/1

In: -11677.228+/-7058.764  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13235.592+/-6784.329  $\chi^2/\text{NDF}$ : 0.6/1

eigen\_cor\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 5715.986 $\pm$ 4.991  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6613.103 $\pm$ 17.373  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

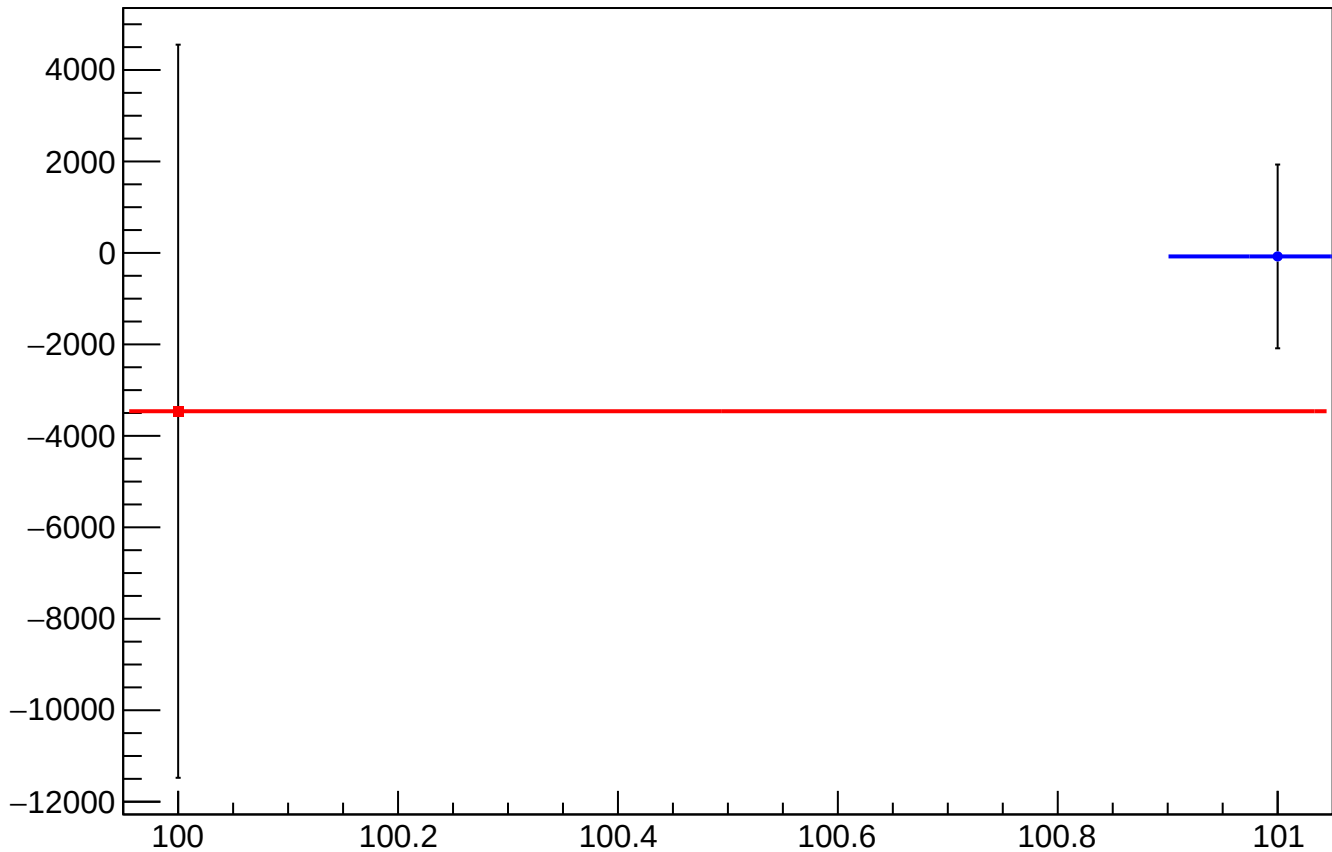
Right: 5784.387 $\pm$ 4.797  $\chi^2$ /NDF: 2463.1/1

In: 5715.986 $\pm$ 4.991  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5784.387 $\pm$ 4.797  $\chi^2$ /NDF: 2463.1/1

asym\_at1\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -76.452+/-2009.119  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3461.654+/-8015.453  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

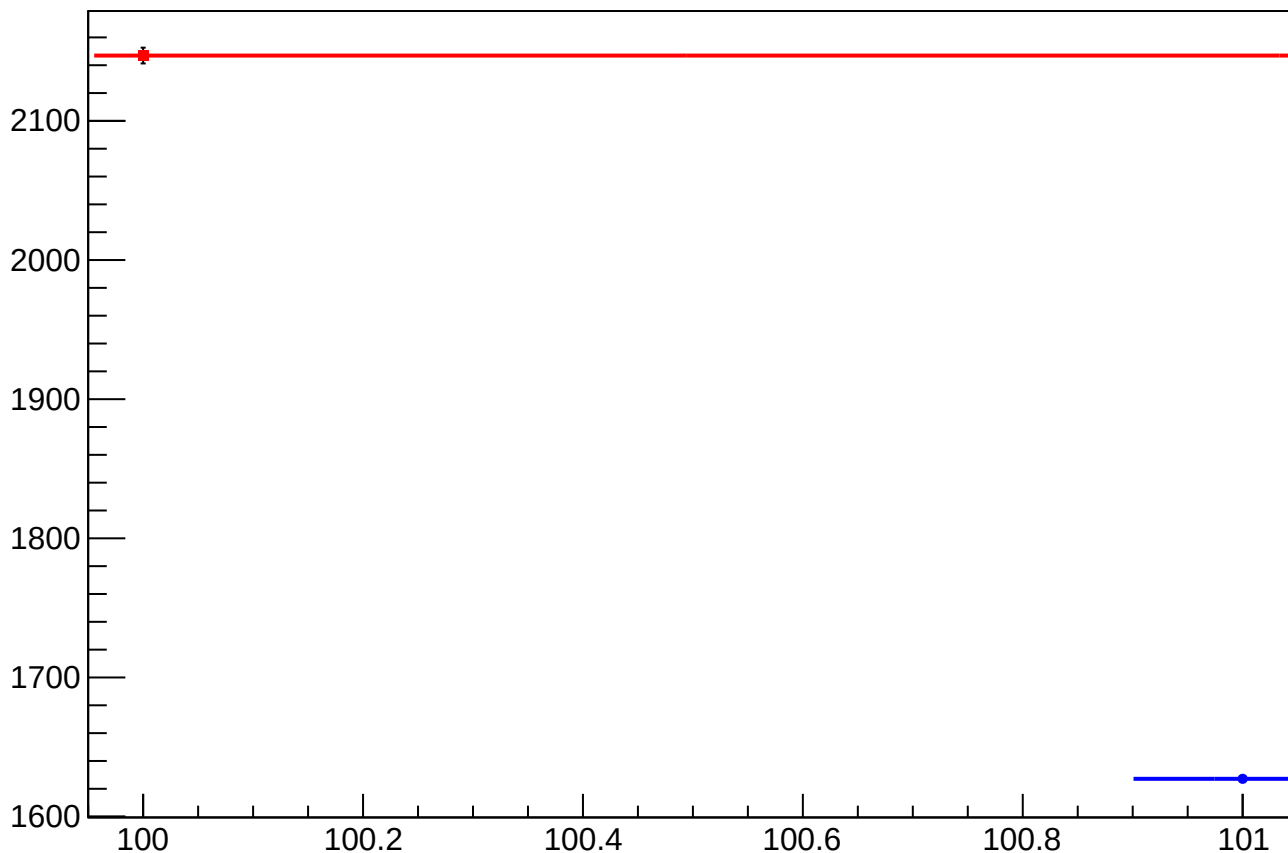
Right: -276.565+/-1948.831  $\chi^2/\text{NDF}$ : 0.2/1

In: -76.452+/-2009.119  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -276.565+/-1948.831  $\chi^2/\text{NDF}$ : 0.2/1

asym\_at1\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1627.168+/-1.421  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2146.949+/-5.668  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

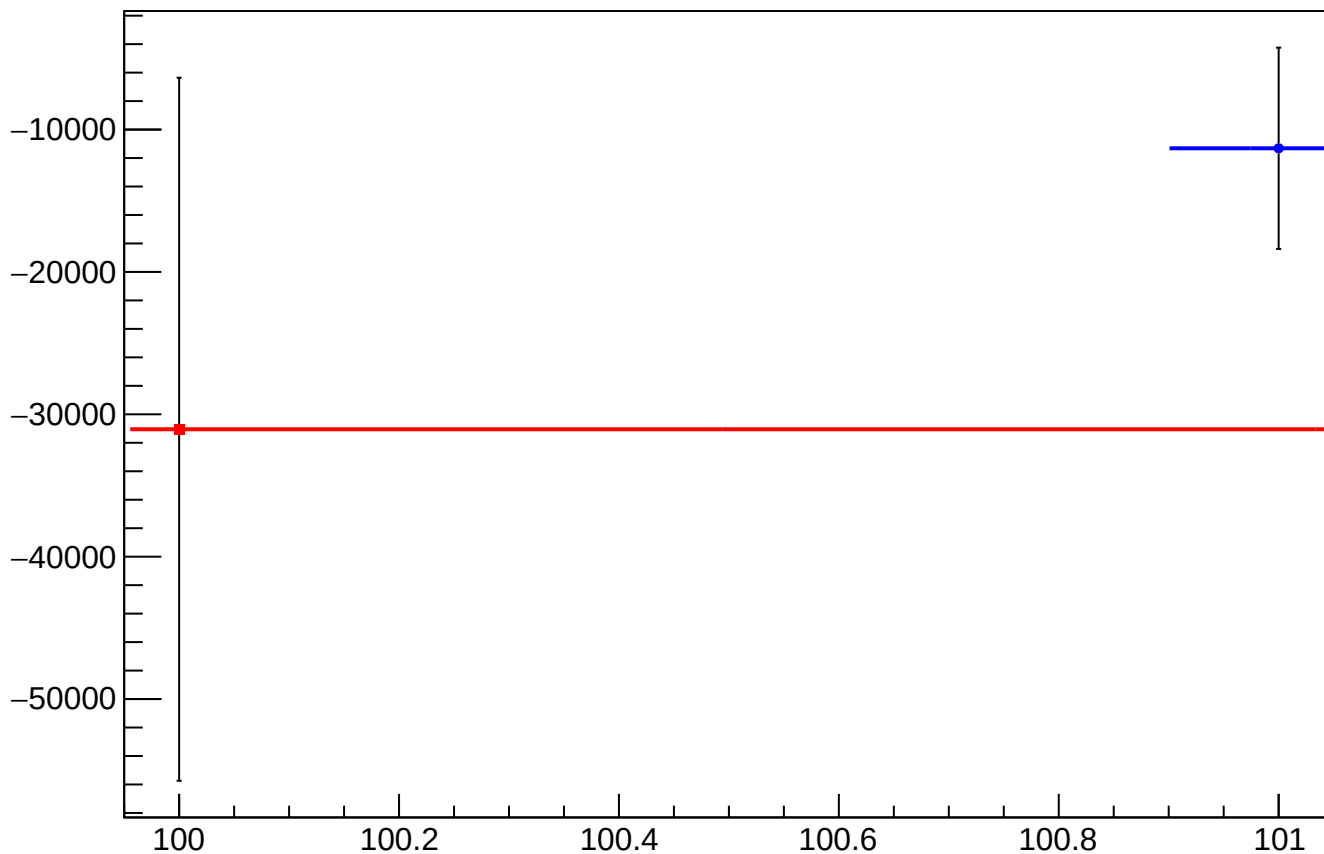
Right: 1657.895+/-1.378  $\chi^2$ /NDF: 7913.2/1

In: 1627.168+/-1.421  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 1657.895+/-1.378  $\chi^2$ /NDF: 7913.2/1

dit\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -11315.447+/-7068.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -31050.008+/-24691.985  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

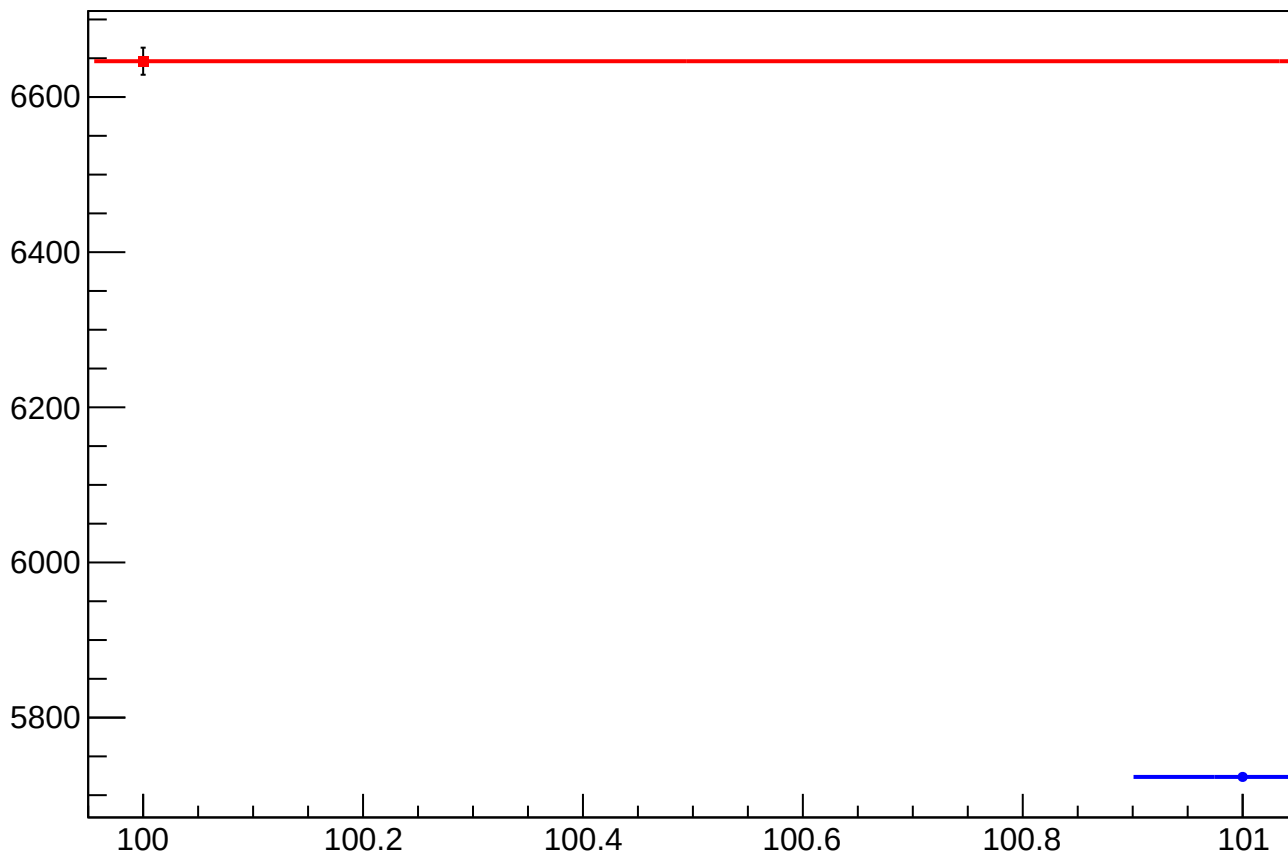
Right: -12810.013+/-6795.163  $\chi^2/\text{NDF}$ : 0.6/1

In: -11315.447+/-7068.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12810.013+/-6795.163  $\chi^2/\text{NDF}$ : 0.6/1

# dit\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 5723.529 $\pm$ 4.998  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6646.174 $\pm$ 17.460  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

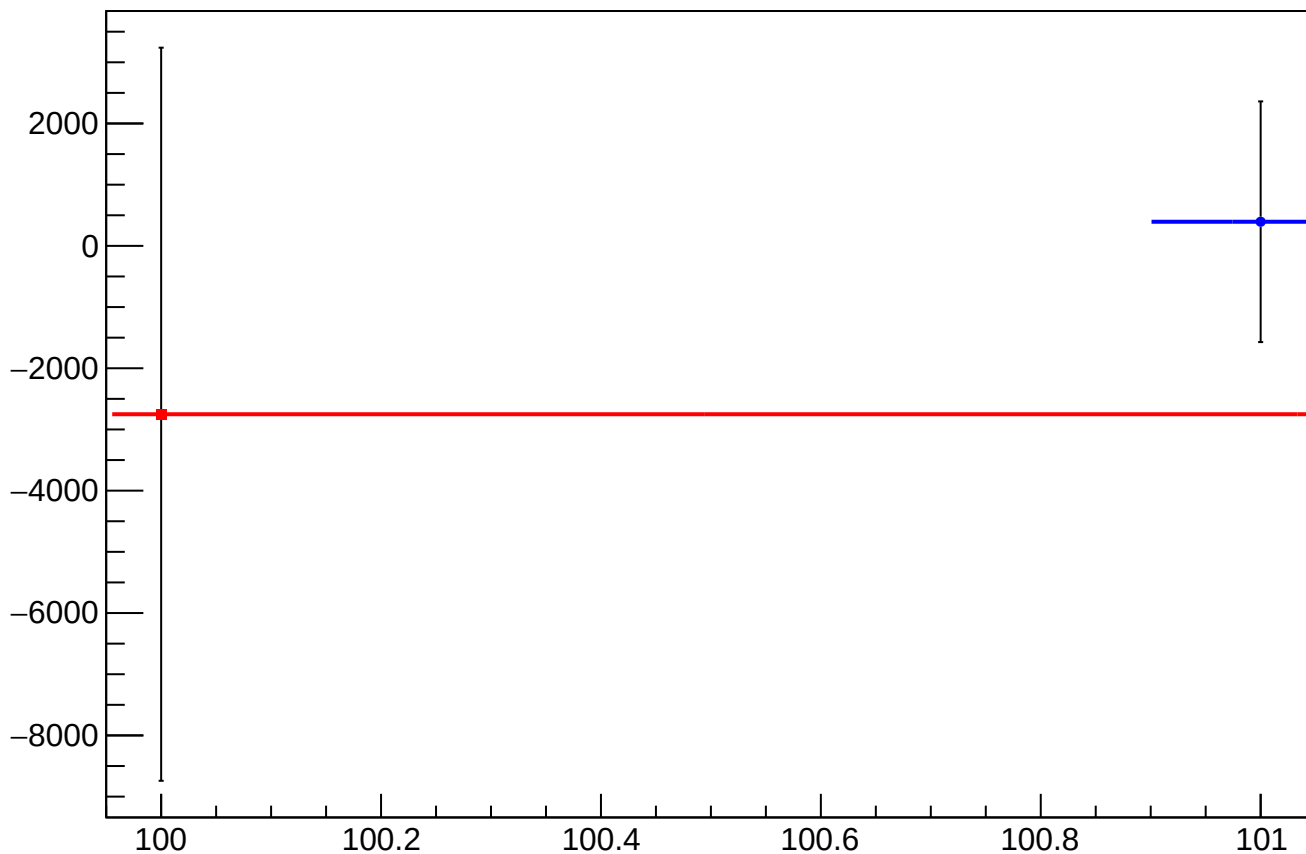
Right: 5793.404 $\pm$ 4.805  $\chi^2/\text{NDF}$ : 2581.0/1

In: 5723.529 $\pm$ 4.998  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5793.404 $\pm$ 4.805  $\chi^2/\text{NDF}$ : 2581.0/1

asym\_at1\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 394.267 $\pm$ 1966.677  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2751.264 $\pm$ 5990.242  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

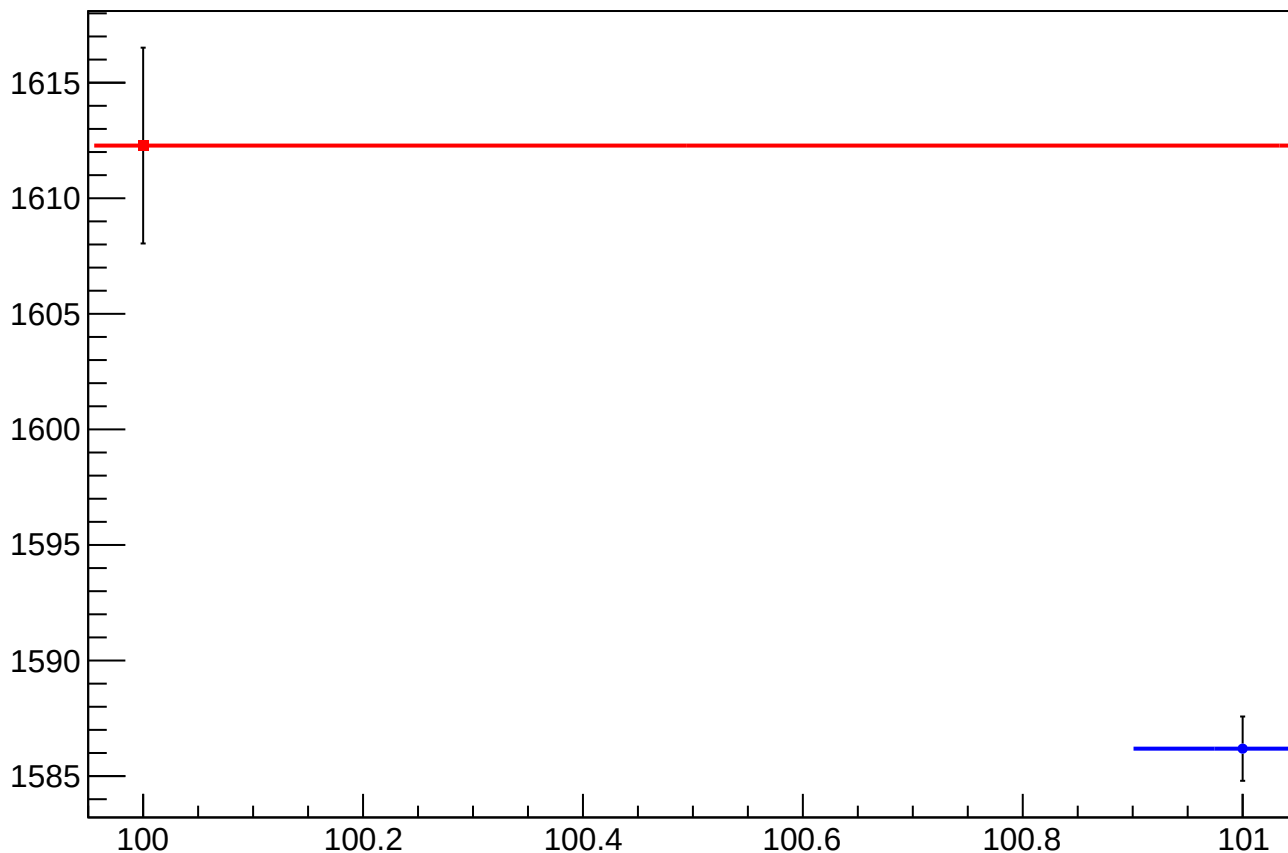
Right: 88.202 $\pm$ 1868.549  $\chi^2$ /NDF: 0.2/1

In: 394.267 $\pm$ 1966.677  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 88.202 $\pm$ 1868.549  $\chi^2$ /NDF: 0.2/1

asym\_at1\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1586.187 $\pm$ 1.391  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1612.280 $\pm$ 4.236  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1588.726 $\pm$ 1.321  $\chi^2$ /NDF: 34.3/1

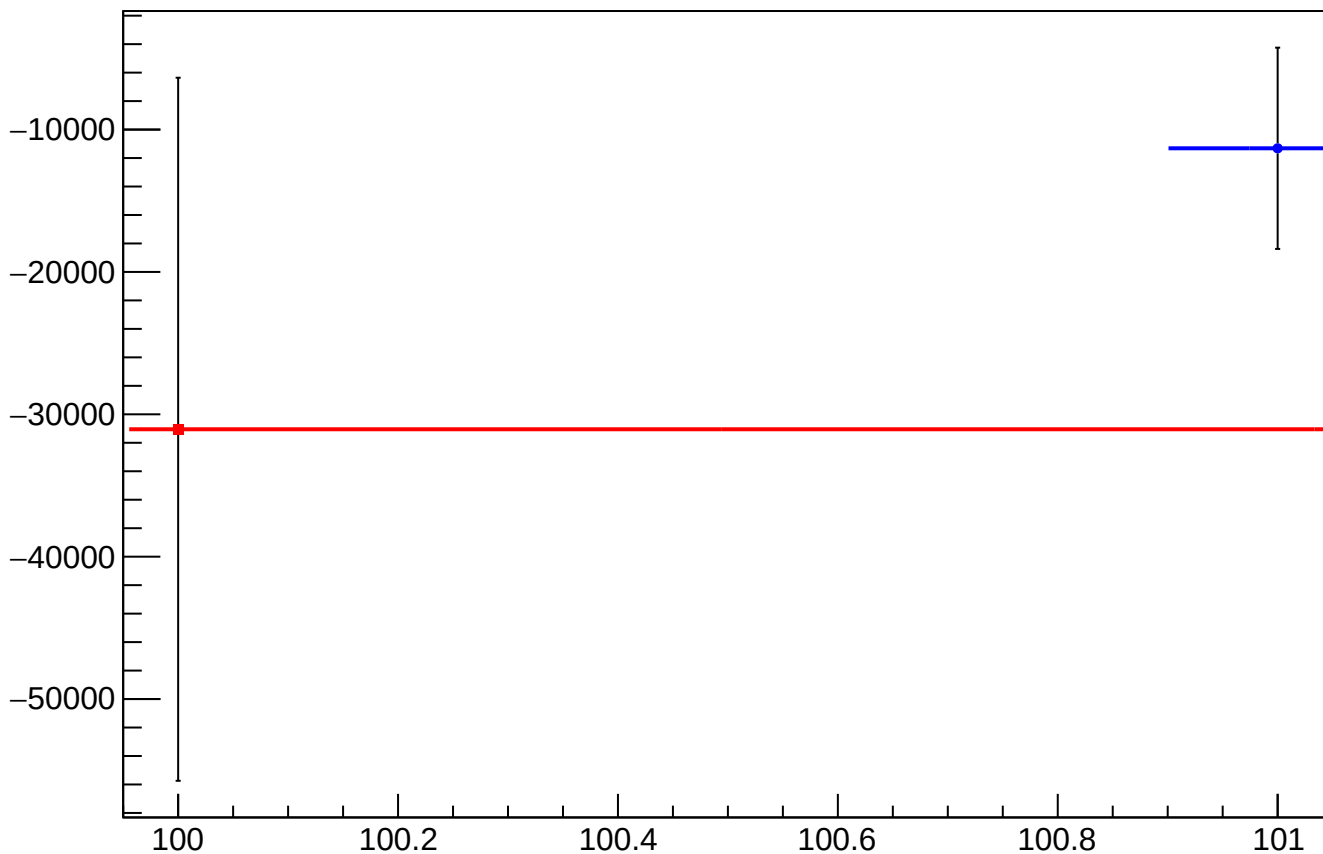
In: 1586.187 $\pm$ 1.391  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1588.726 $\pm$ 1.321  $\chi^2$ /NDF: 34.3/1



eigen\_dit\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -11315.454+/-7068.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -31049.986+/-24691.984  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

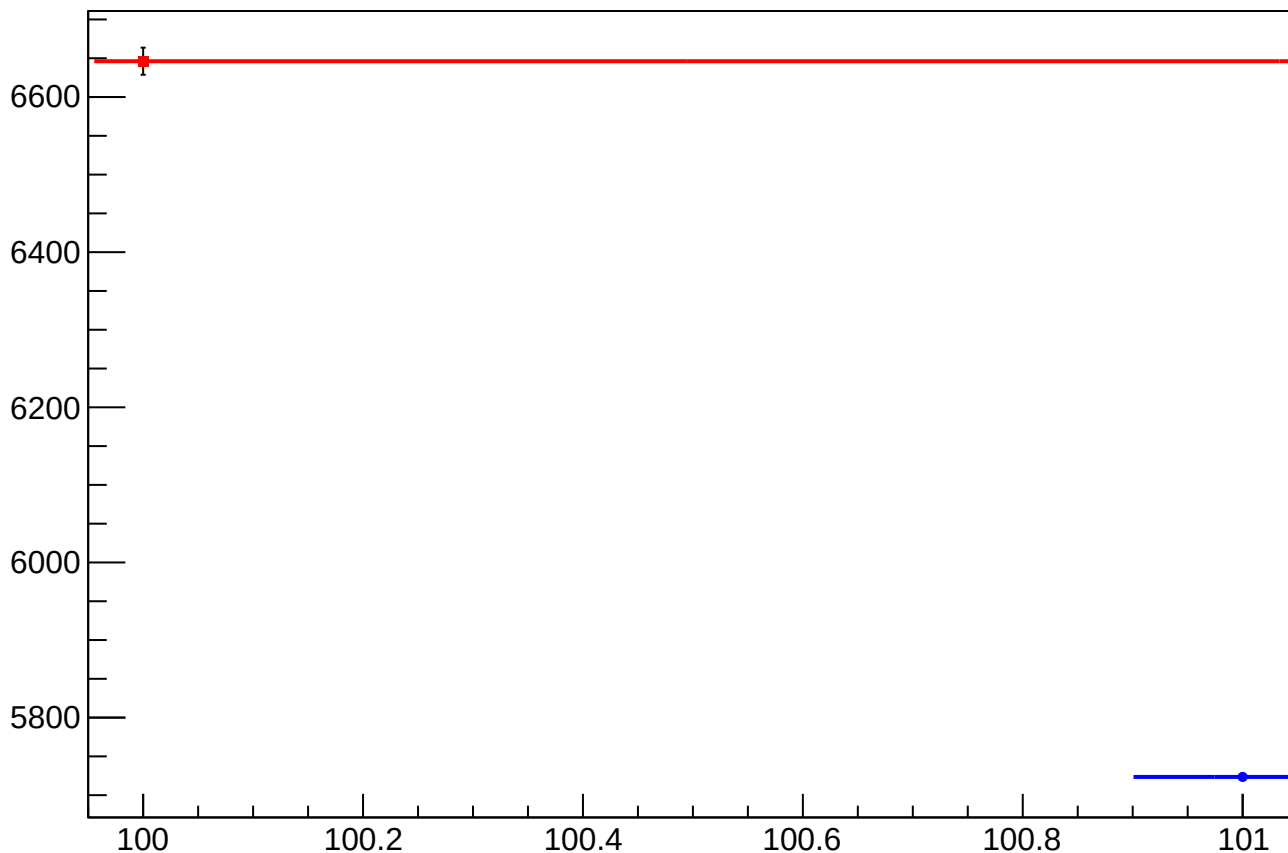
Right: -12810.018+/-6795.163  $\chi^2/\text{NDF}$ : 0.6/1

In: -11315.454+/-7068.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12810.018+/-6795.163  $\chi^2/\text{NDF}$ : 0.6/1

eigen\_dit\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 5723.529+/-4.998  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6646.174+/-17.460  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

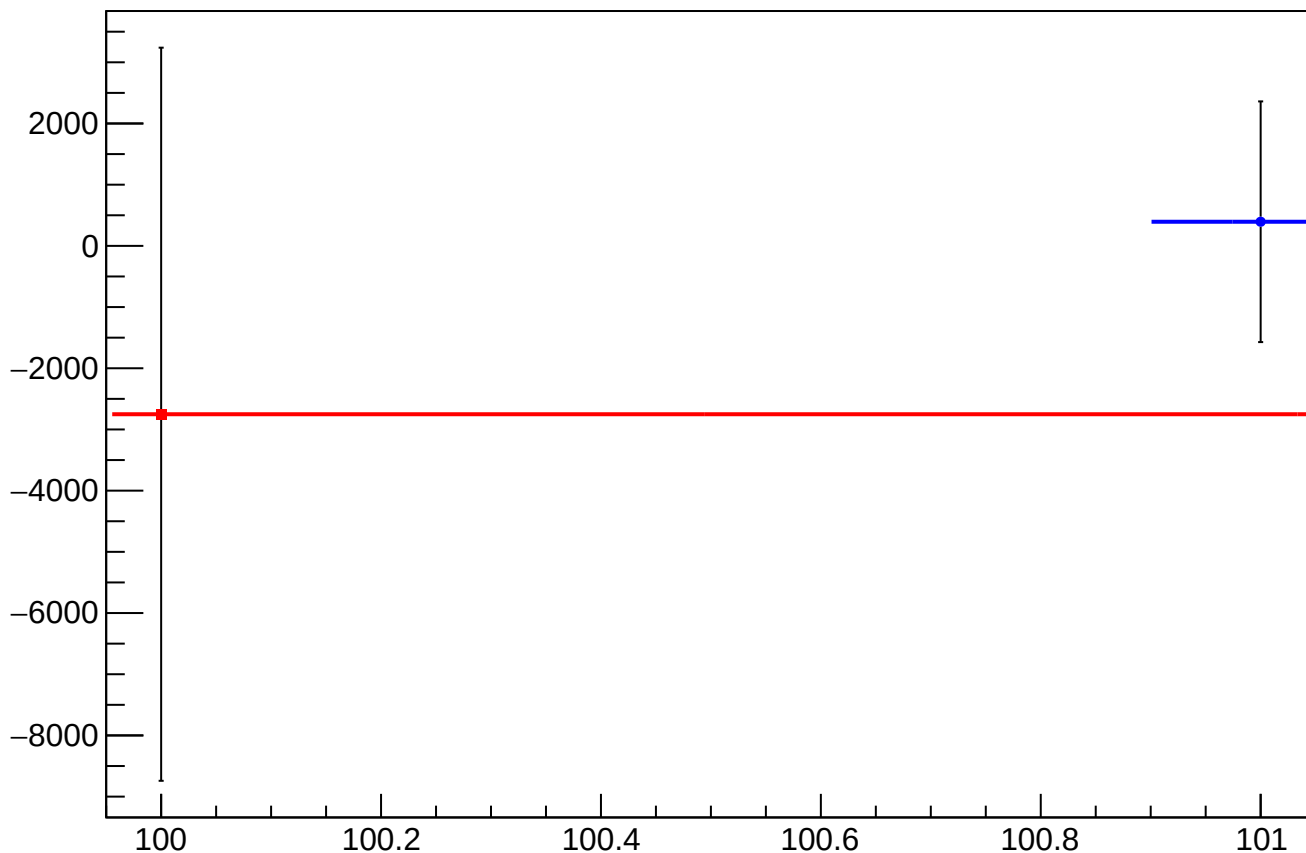
Right: 5793.404+/-4.805  $\chi^2$ /NDF: 2581.0/1

In: 5723.529+/-4.998  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 5793.404+/-4.805  $\chi^2$ /NDF: 2581.0/1

asym\_at1\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 394.262+/-1966.676  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2751.241+/-5990.240  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

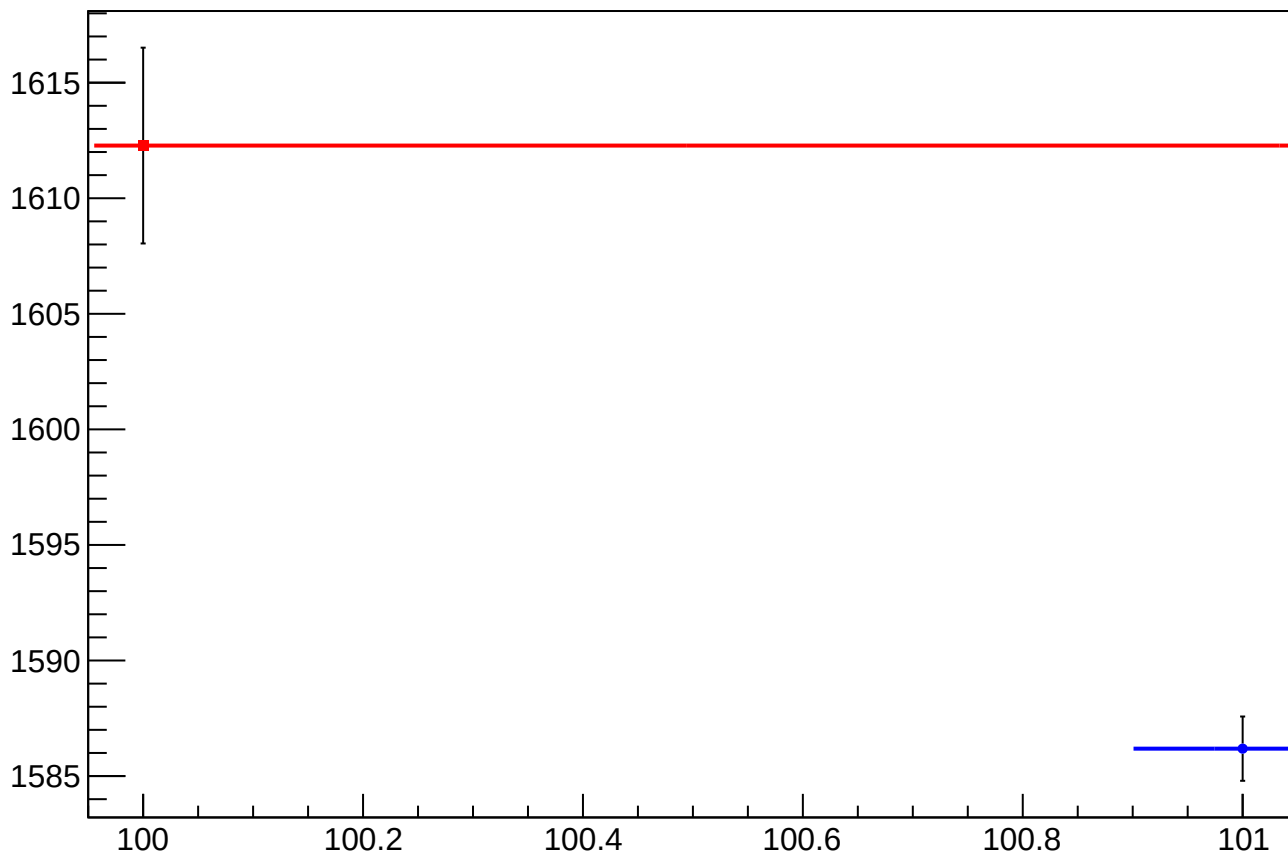
Right: 88.199+/-1868.547  $\chi^2/\text{NDF}$ : 0.2/1

In: 394.262+/-1966.676  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 88.199+/-1868.547  $\chi^2/\text{NDF}$ : 0.2/1

asym\_at1\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1586.186 $\pm$ 1.391  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1612.279 $\pm$ 4.236  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

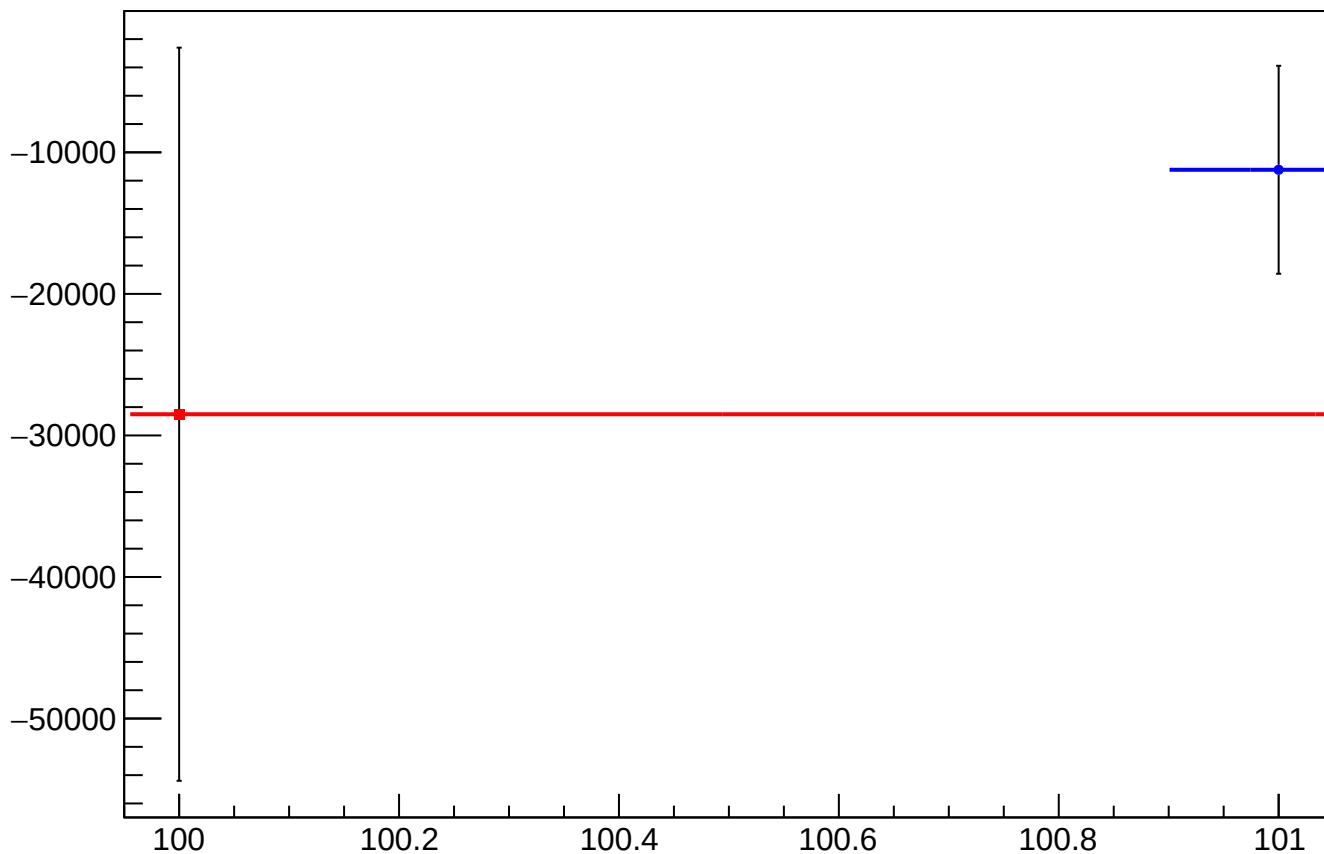
Right: 1588.725 $\pm$ 1.321  $\chi^2$ /NDF: 34.3/1

In: 1586.186 $\pm$ 1.391  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1588.725 $\pm$ 1.321  $\chi^2$ /NDF: 34.3/1

# asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -11230.654+/-7345.380  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -28501.697+/-25897.359  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

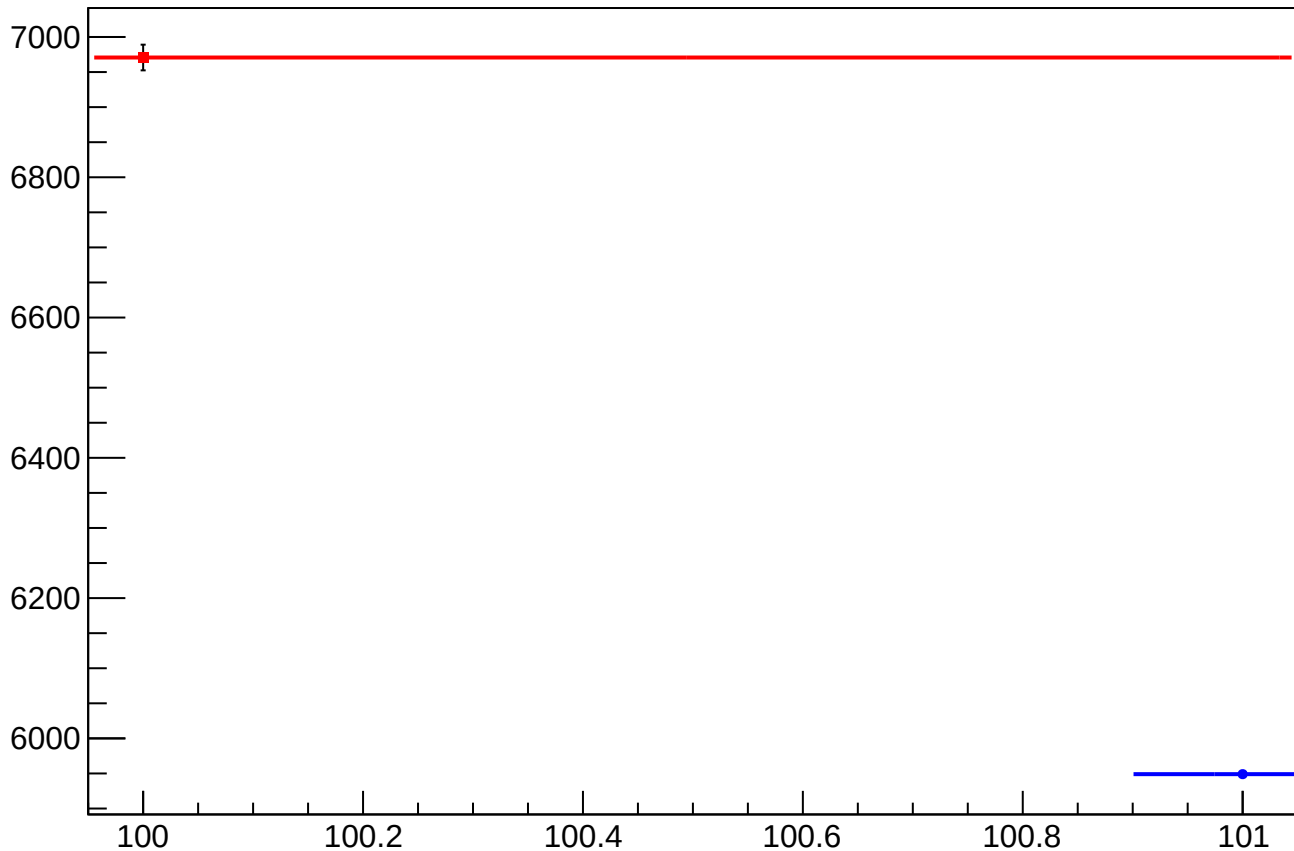
Right: -12516.628+/-7066.628  $\chi^2/\text{NDF}$ : 0.4/1

In: -11230.654+/-7345.380  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12516.628+/-7066.628  $\chi^2/\text{NDF}$ : 0.4/1

# asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 5949.004 $\pm$ 5.194  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6970.733 $\pm$ 18.312  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

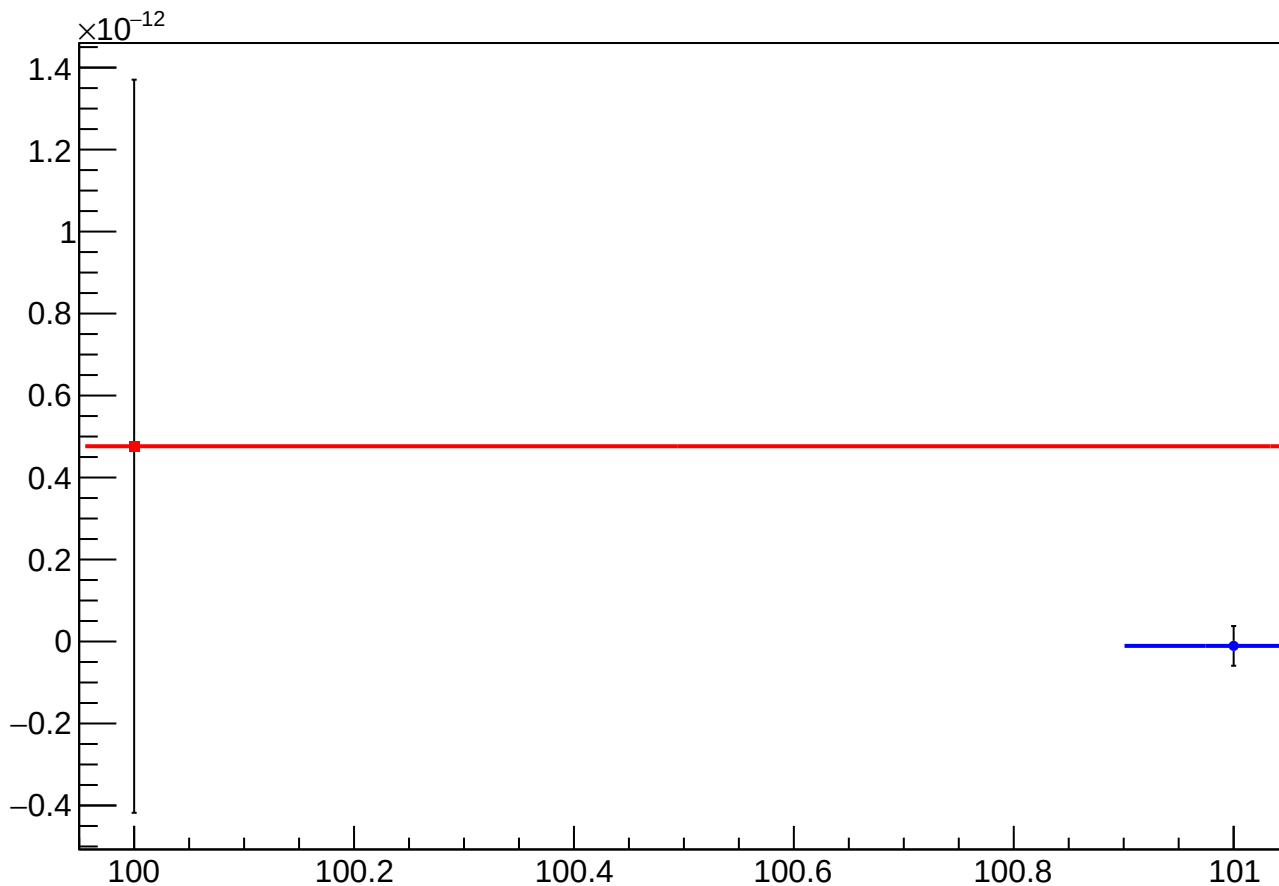
Right: 6025.081 $\pm$ 4.997  $\chi^2$ /NDF: 2881.3/1

In: 5949.004 $\pm$ 5.194  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6025.081 $\pm$ 4.997  $\chi^2$ /NDF: 2881.3/1

asym\_at1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

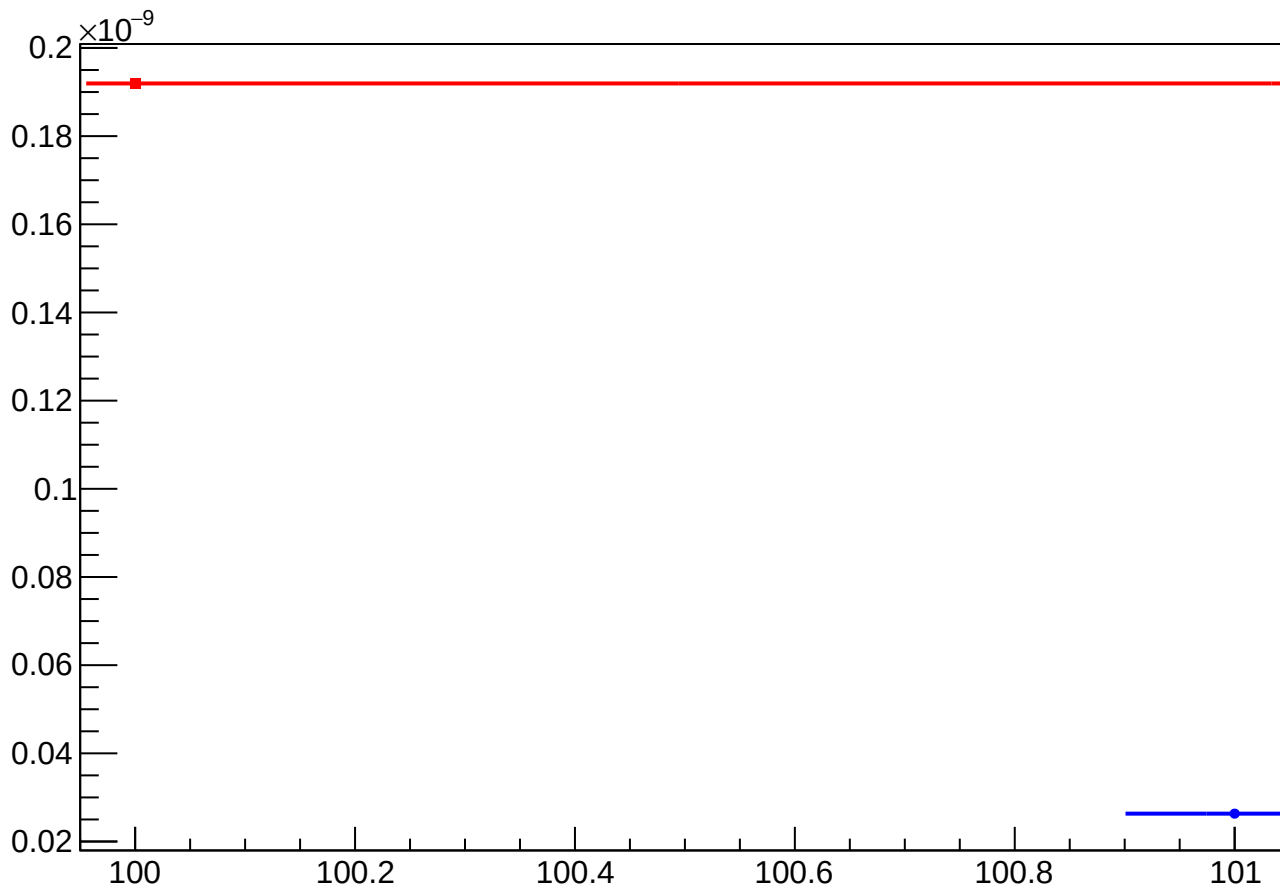
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.3/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.3/1

asym\_at1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 68414.5/1

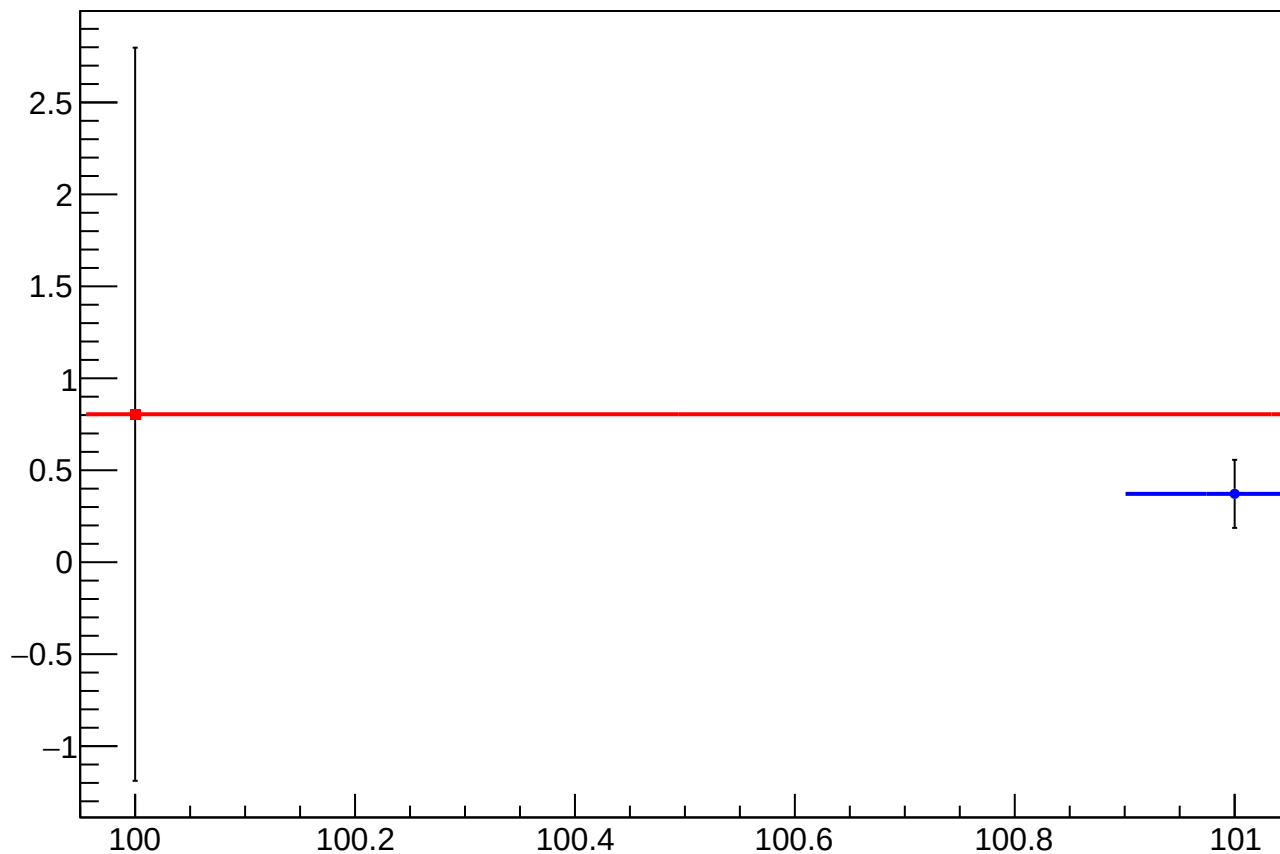
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 68414.5/1



asym\_at1\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.805 $\pm$ 1.993  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

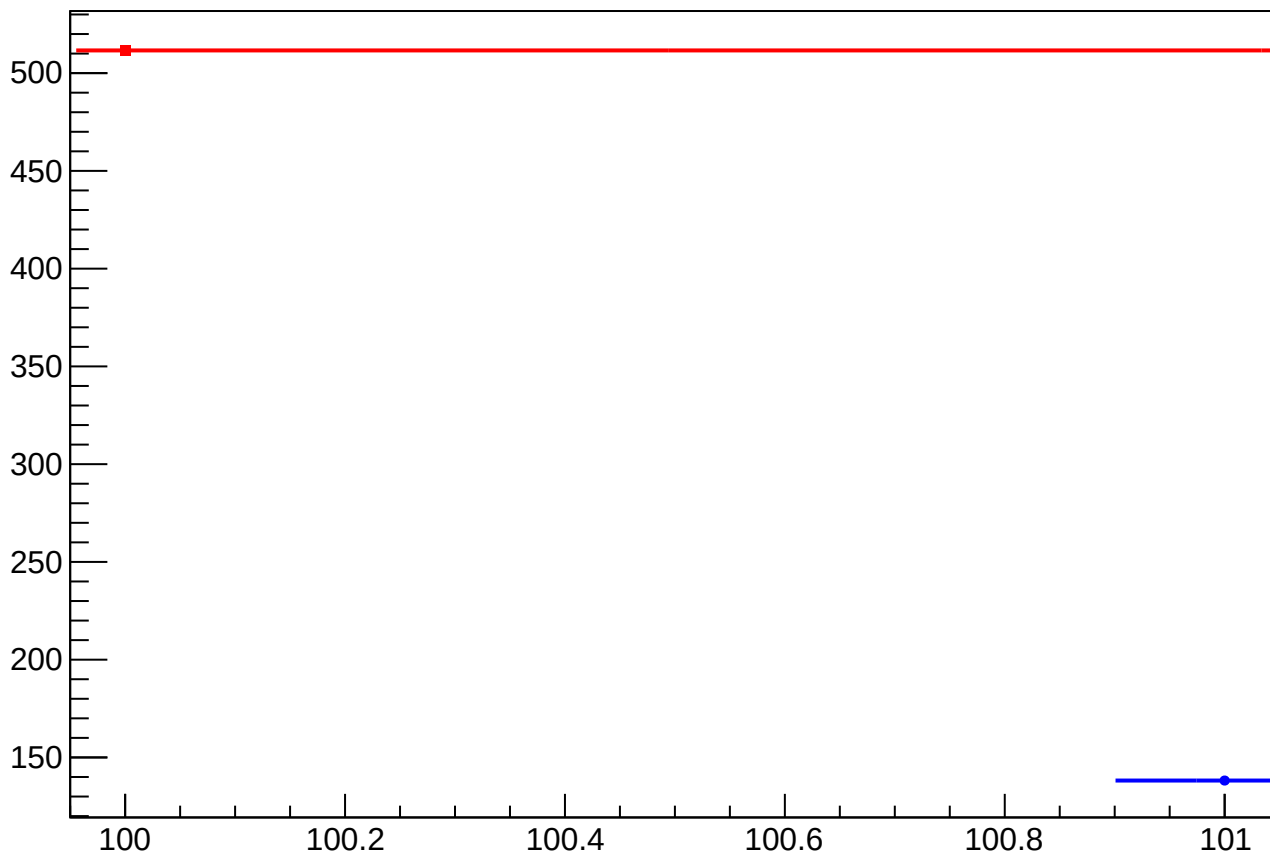
Right: 0.375 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/1

In: 0.372 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.375 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/1

asym\_at1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 138.183+/-0.131  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 511.611+/-1.409  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

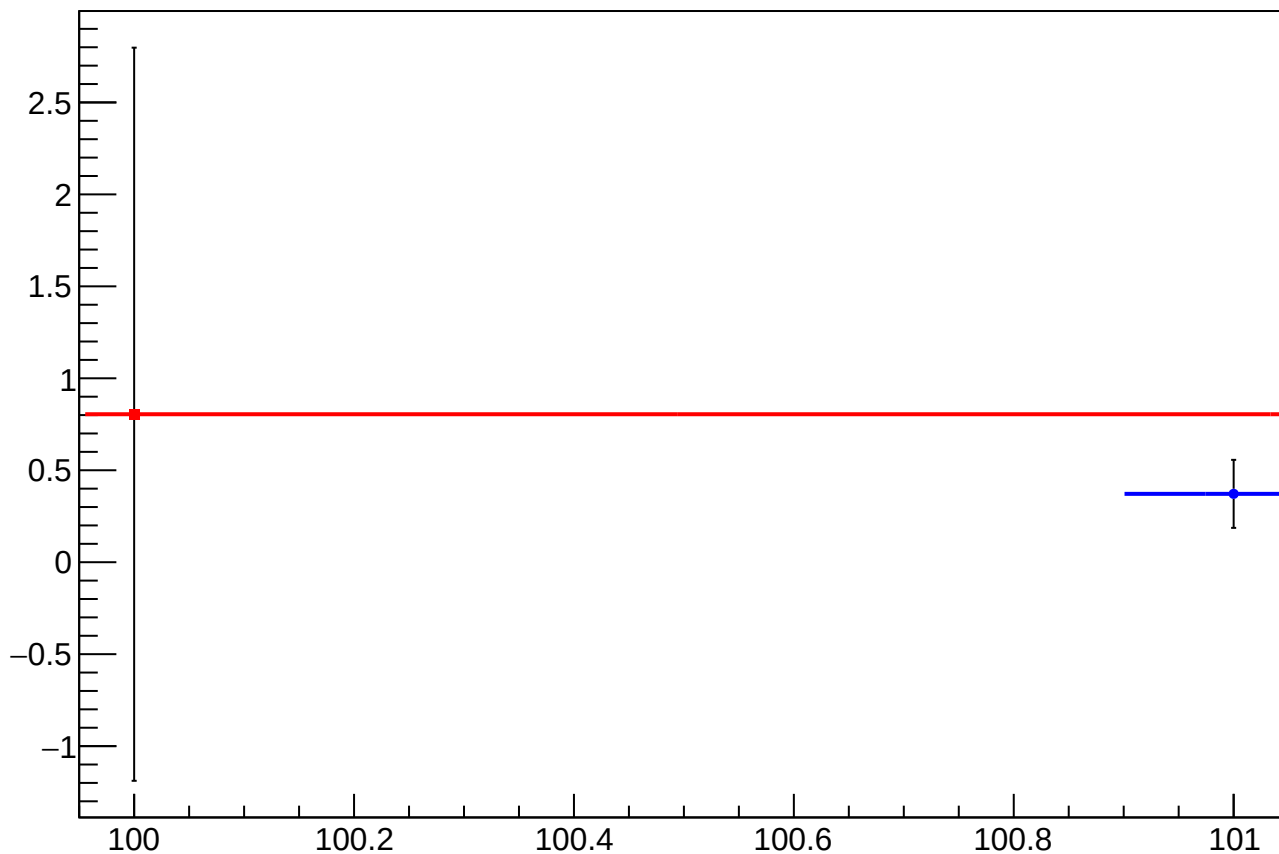
Right: 141.370+/-0.130  $\chi^2/\text{NDF}$ : 69606.5/1

In: 138.183+/-0.131  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 141.370+/-0.130  $\chi^2/\text{NDF}$ : 69606.5/1

asym\_at1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.805 $\pm$ 1.993  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

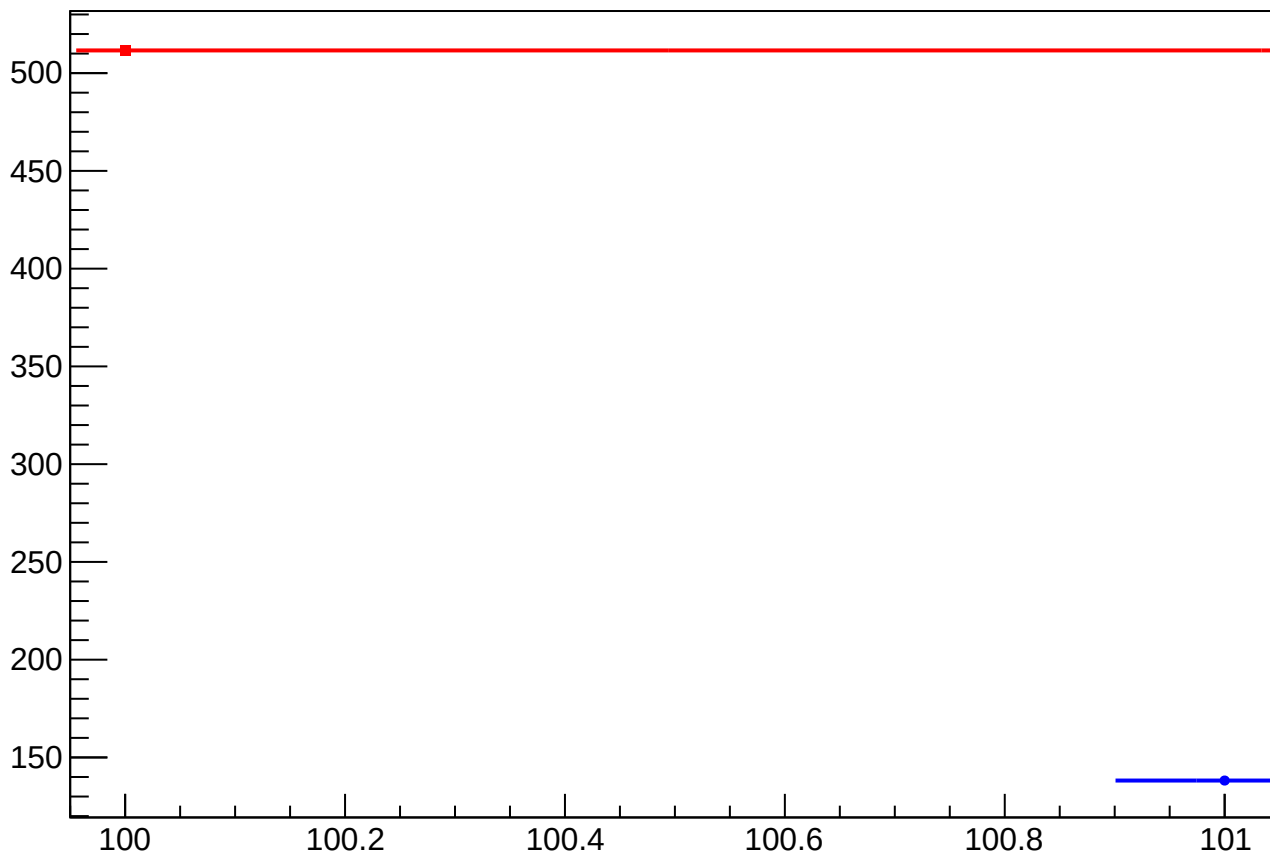
Right: 0.375 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/1

In: 0.372 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.375 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/1

asym\_at1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 138.183 $\pm$ 0.131  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 511.611 $\pm$ 1.409  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

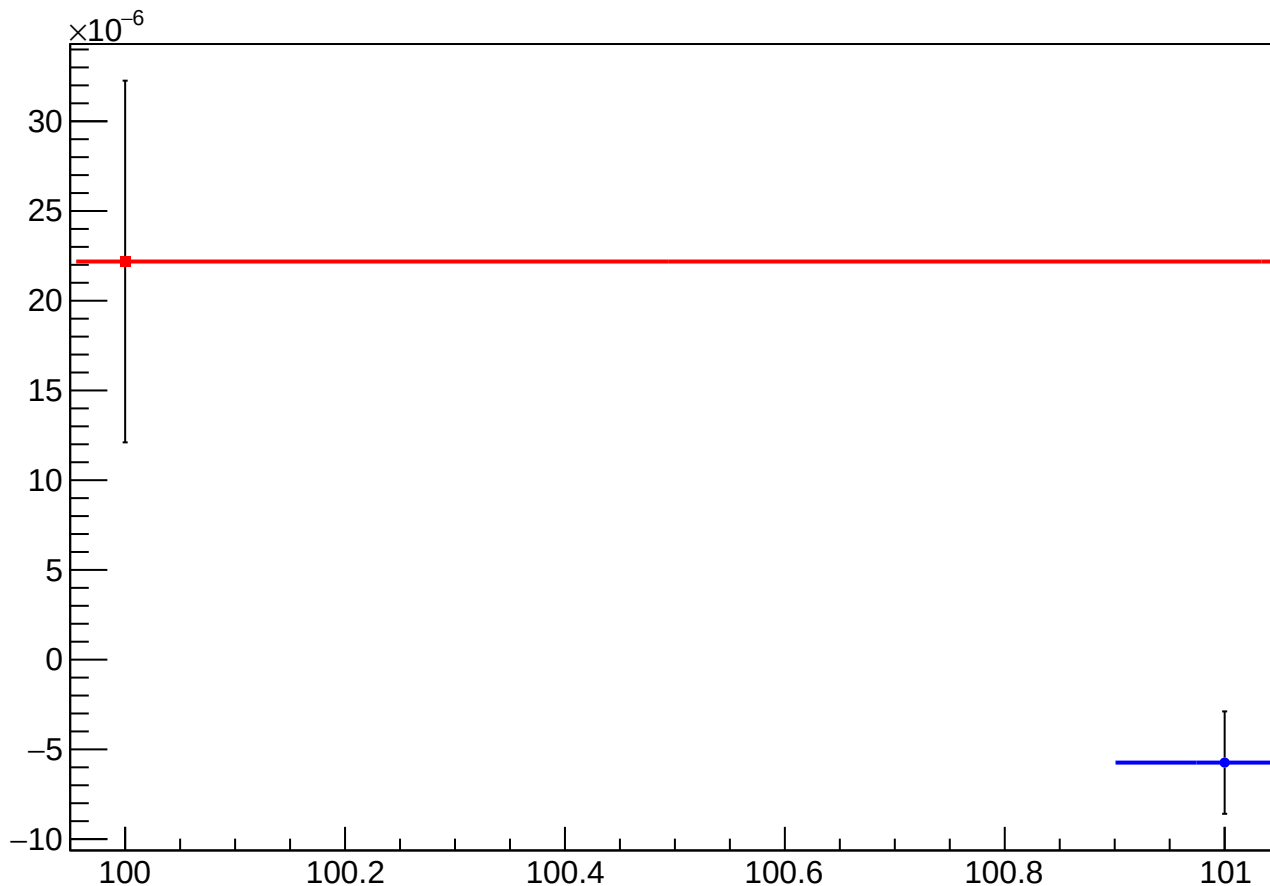
Right: 141.370 $\pm$ 0.130  $\chi^2$ /NDF: 69606.5/1

In: 138.183 $\pm$ 0.131  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 141.370 $\pm$ 0.130  $\chi^2$ /NDF: 69606.5/1

asym\_at1\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

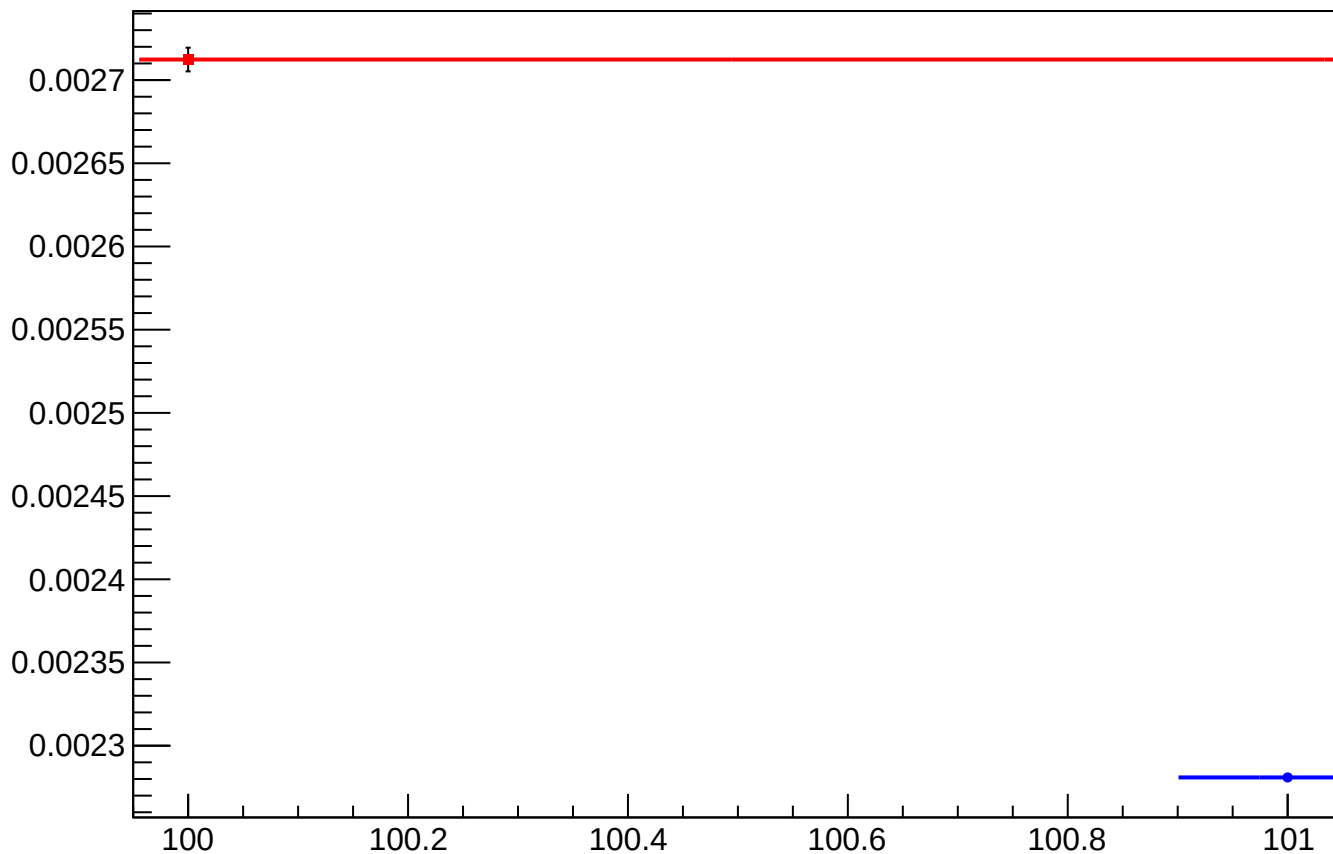
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 7.1/1

asym\_at1\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

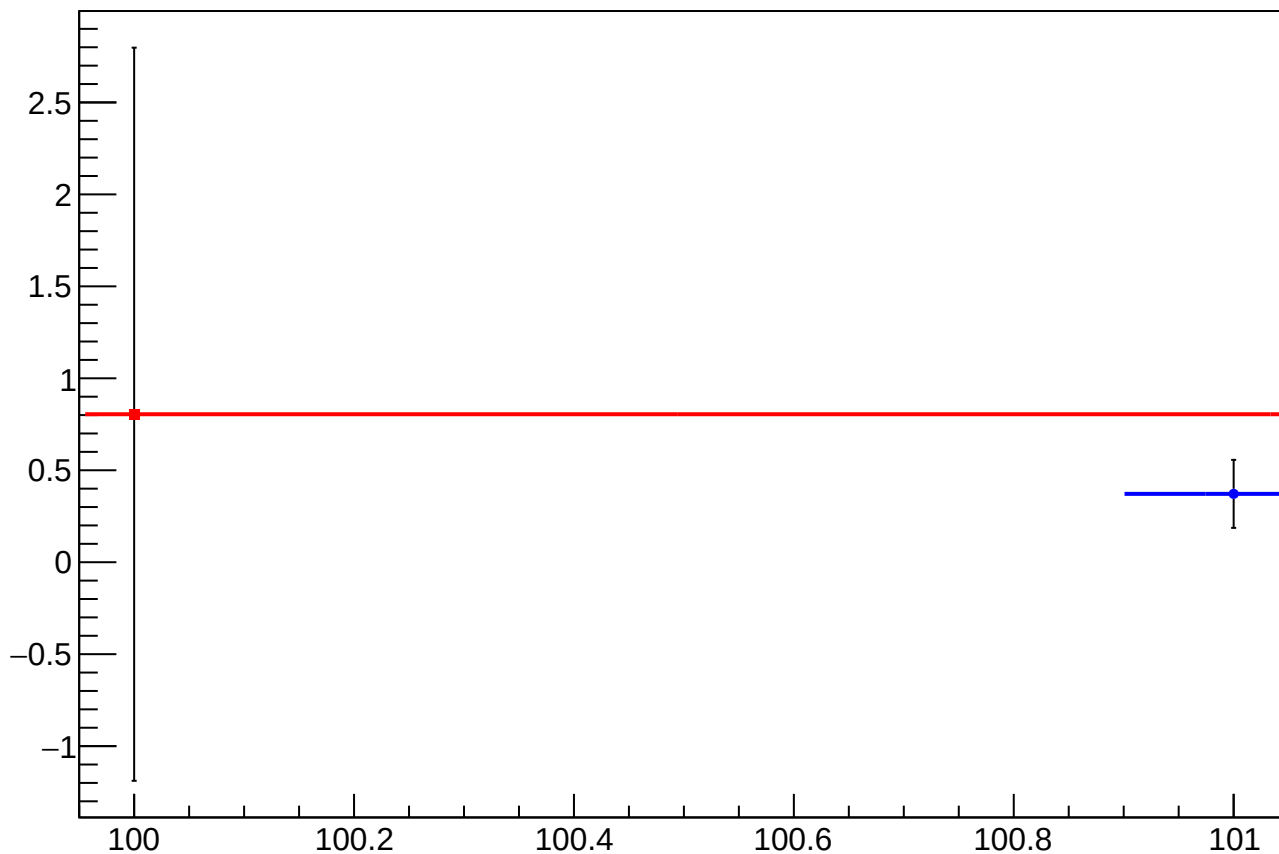
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 3393.6/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 3393.6/1

asym\_at1\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.805 $\pm$ 1.993  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

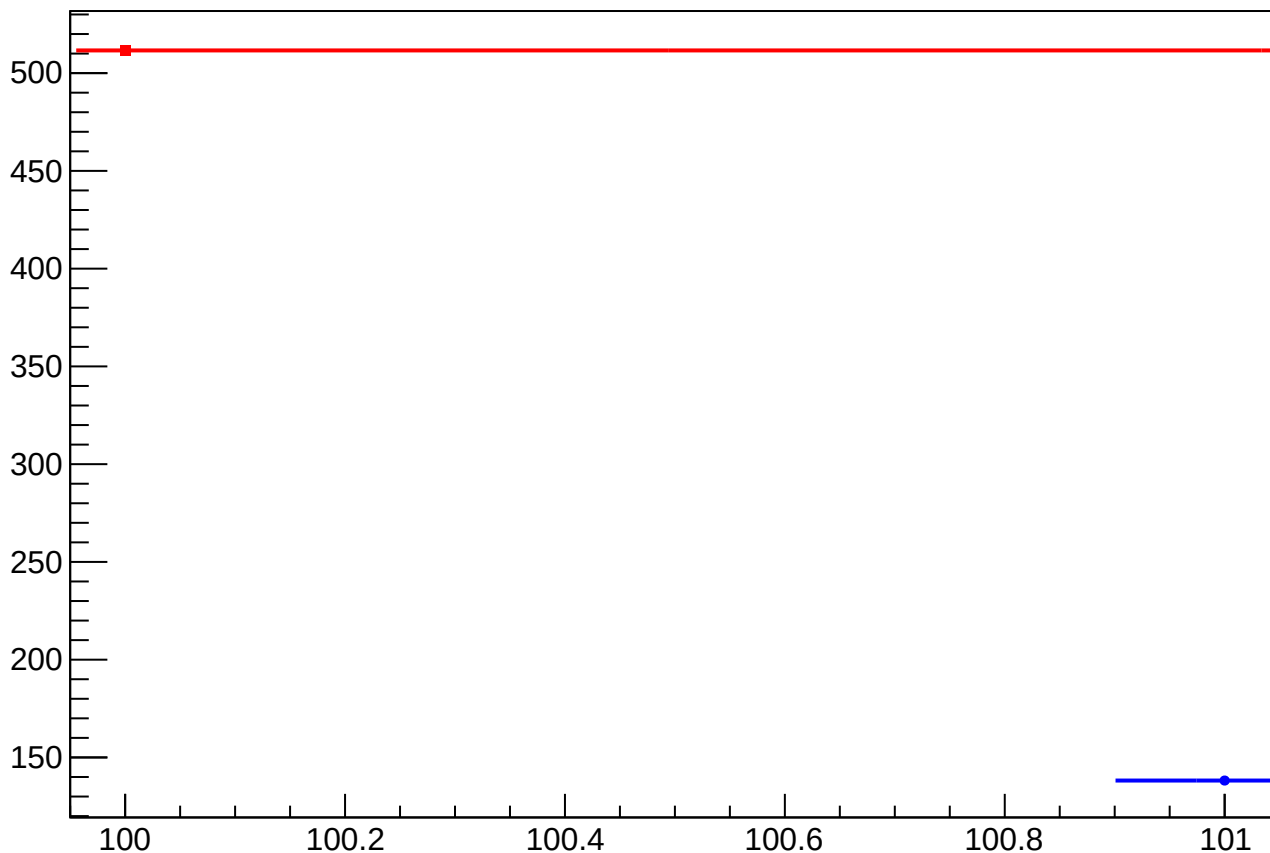
Right: 0.375 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/1

In: 0.372 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.375 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/1

asym\_at1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 138.183+/-0.131  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 511.611+/-1.409  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 141.370+/-0.130  $\chi^2/\text{NDF}$ : 69606.3/1

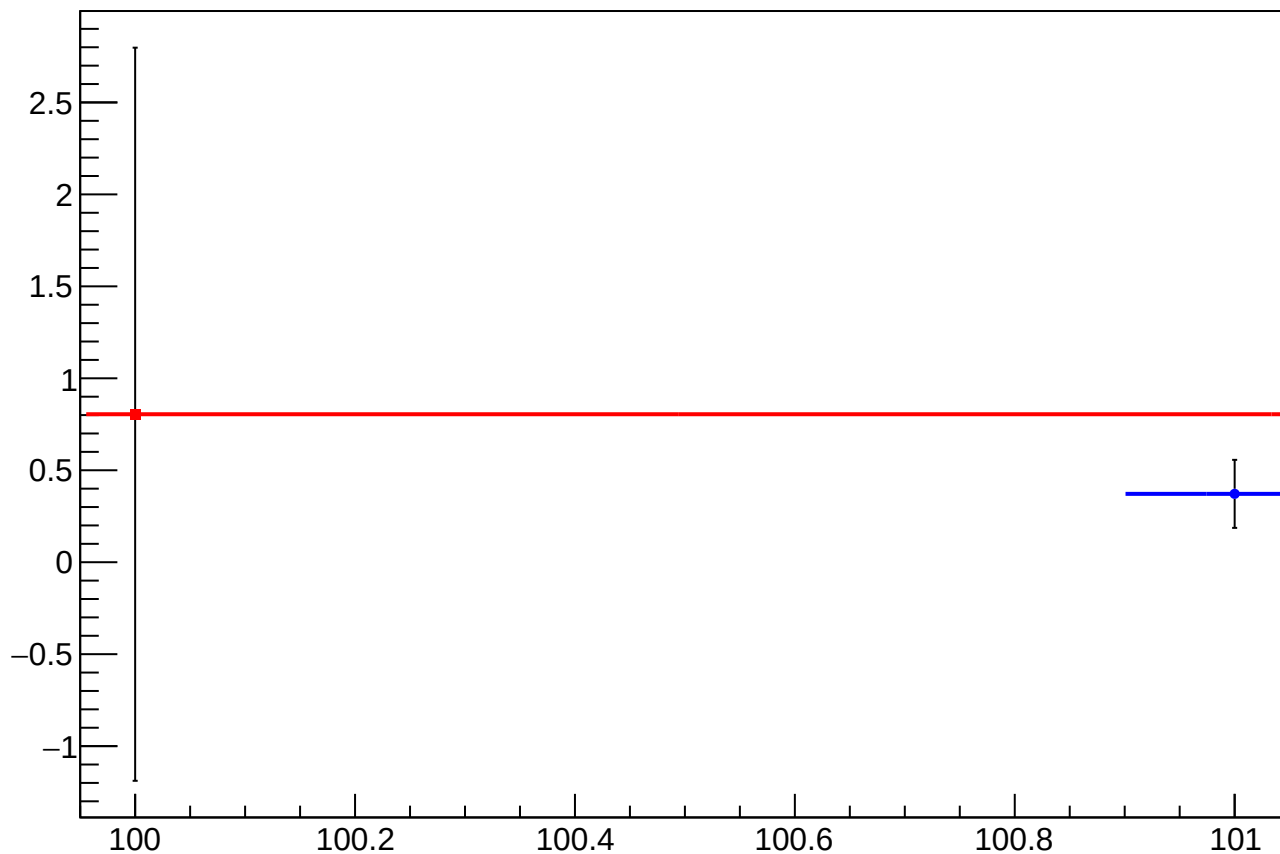
In: 138.183+/-0.131  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 141.370+/-0.130  $\chi^2/\text{NDF}$ : 69606.3/1



asym\_at1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.805 $\pm$ 1.993  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

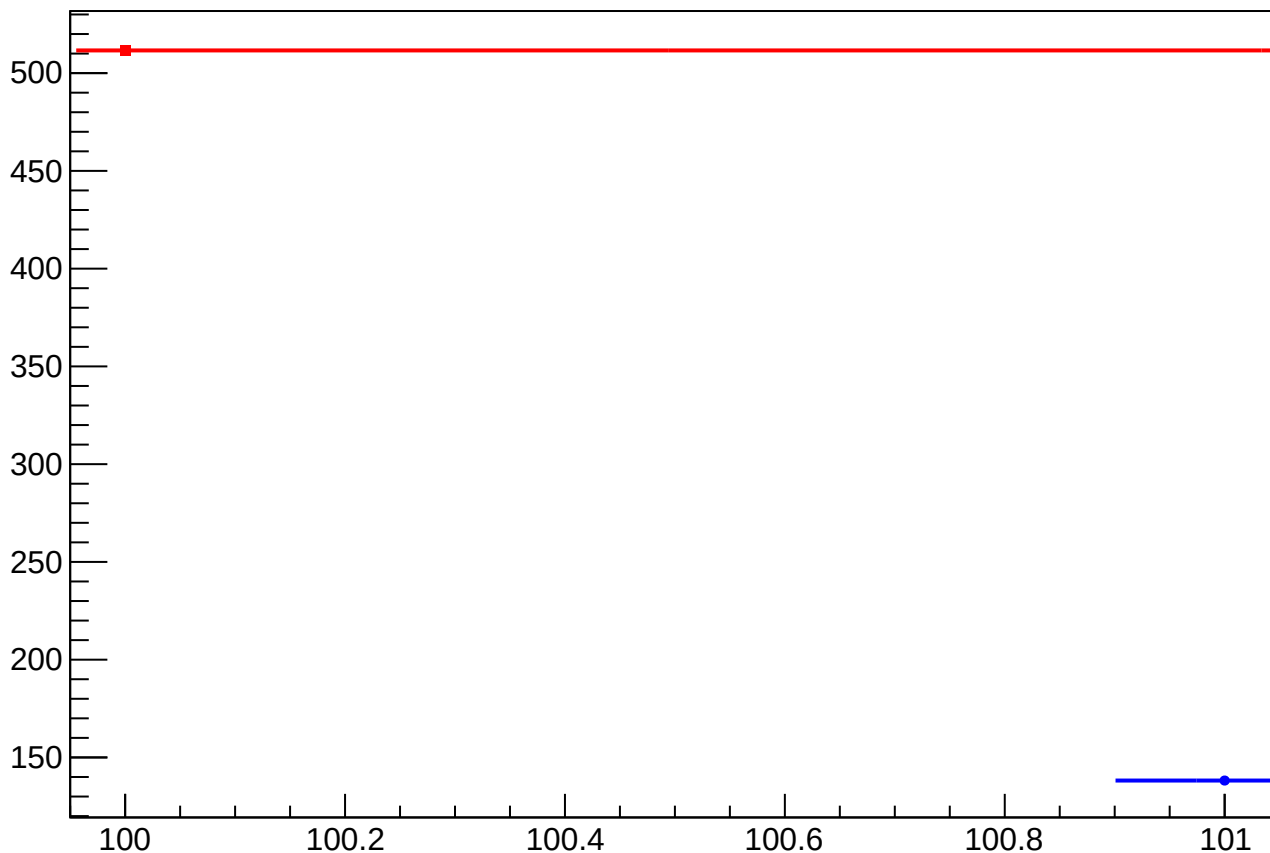
Right: 0.375 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/1

In: 0.372 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.375 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/1

asym\_at1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 138.183 $\pm$ 0.131  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 511.611 $\pm$ 1.409  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

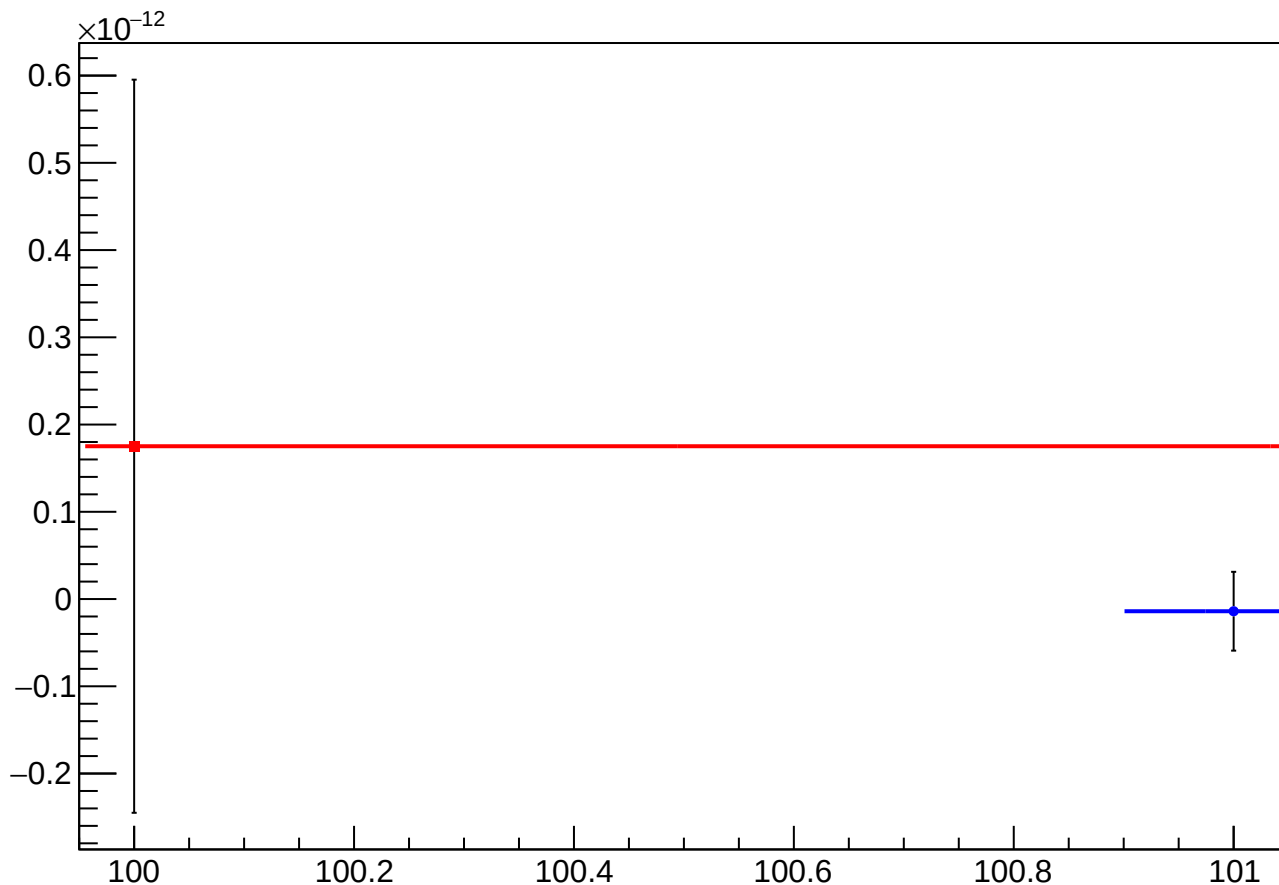
Right: 141.370 $\pm$ 0.130  $\chi^2$ /NDF: 69606.3/1

In: 138.183 $\pm$ 0.131  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 141.370 $\pm$ 0.130  $\chi^2$ /NDF: 69606.3/1

asym\_at1\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

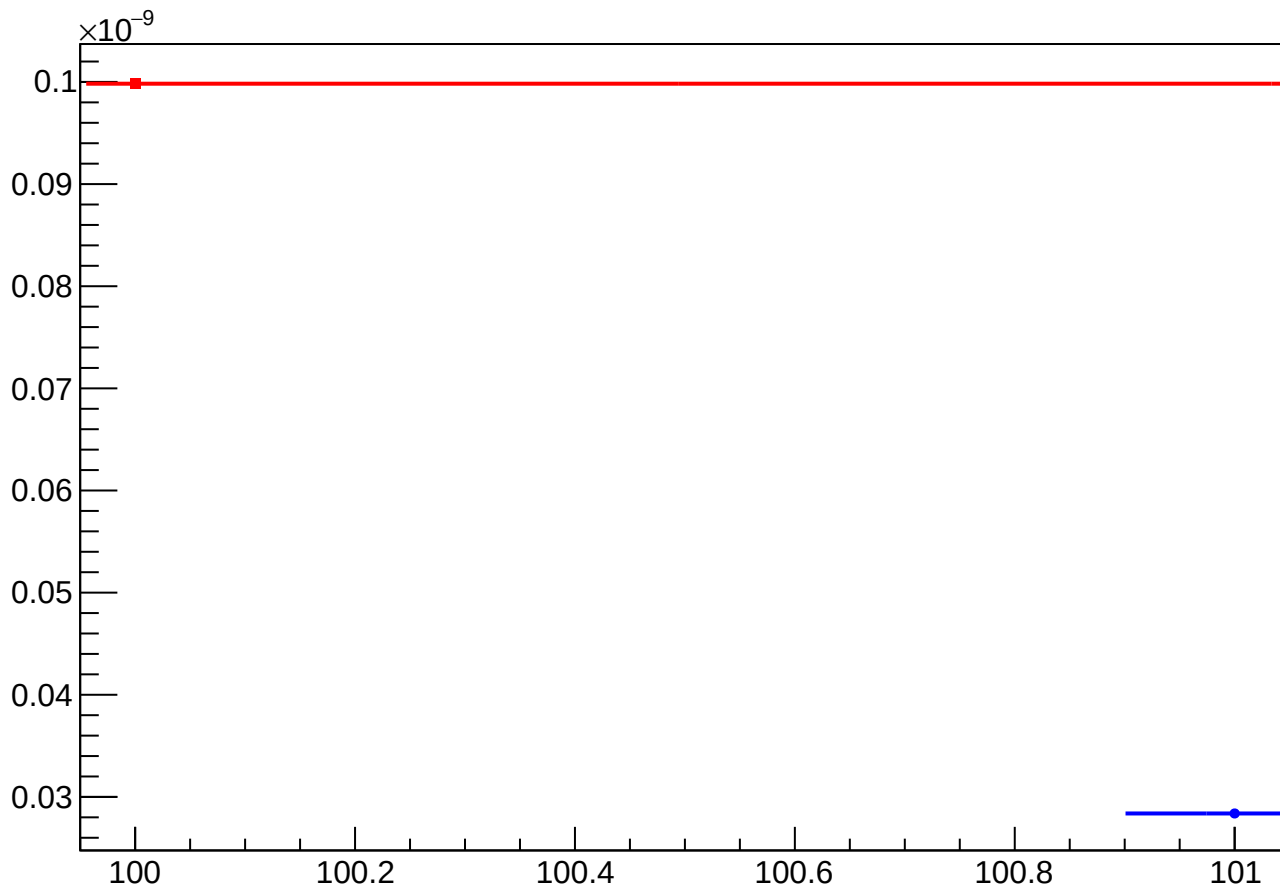
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.2/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.2/1

asym\_at1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

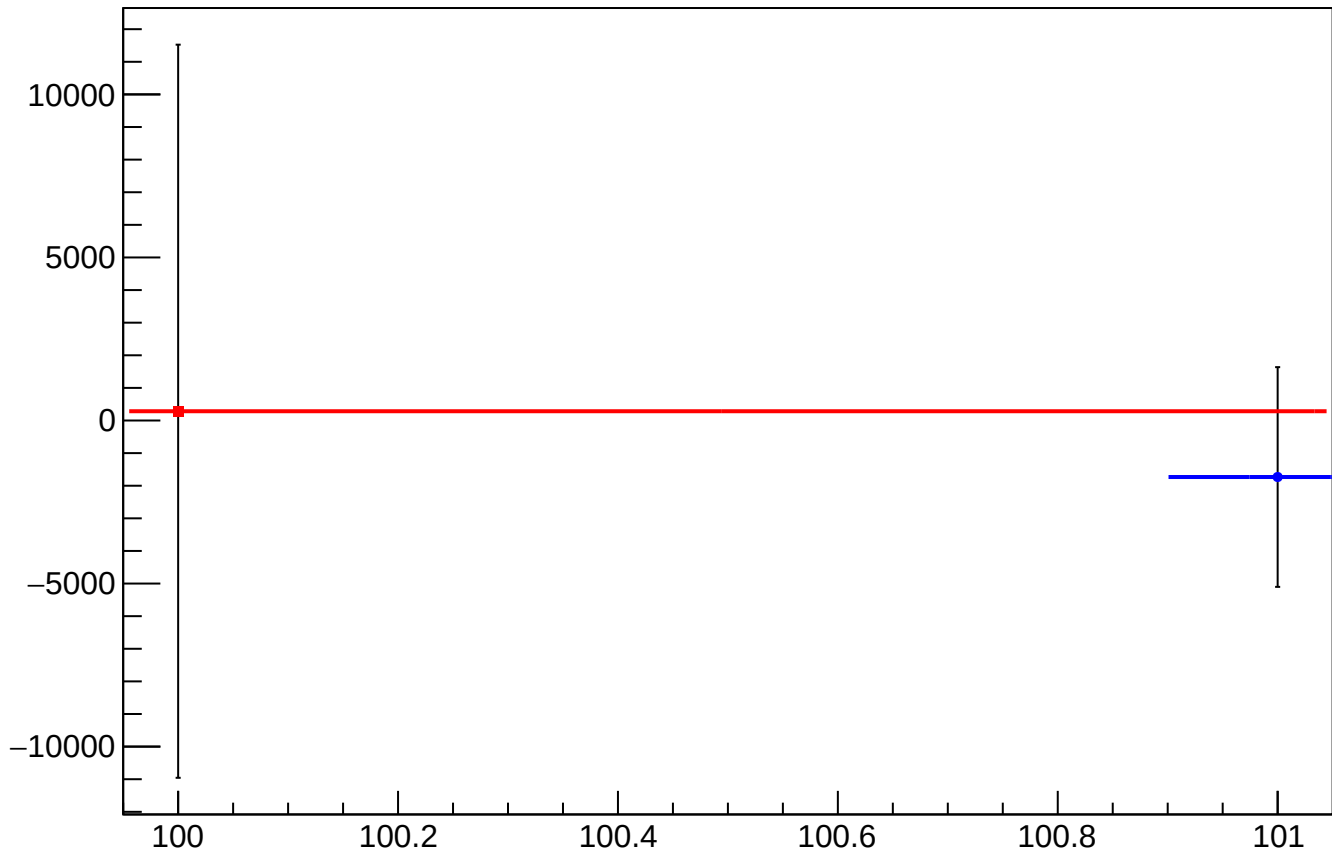
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 57175.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 57175.1/1

# reg\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: -1732.746+/-3369.056  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 284.312+/-11240.875  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

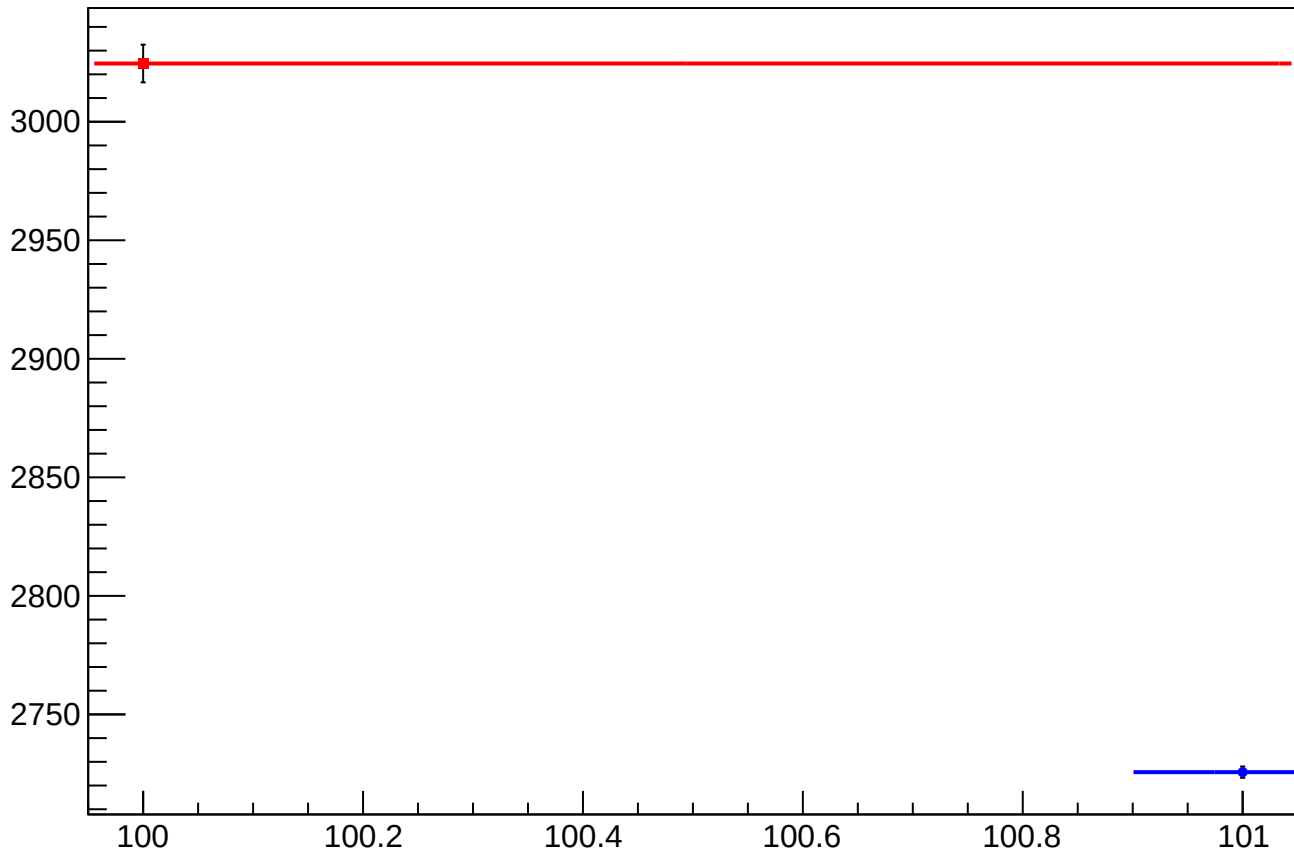
Right: -1566.491+/-3227.224  $\chi^2$ /NDF: 0.0/1

In: -1732.746+/-3369.056  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -1566.491+/-3227.224  $\chi^2$ /NDF: 0.0/1

# reg\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 2725.647 $\pm$ 2.382  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3024.562 $\pm$ 7.948  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

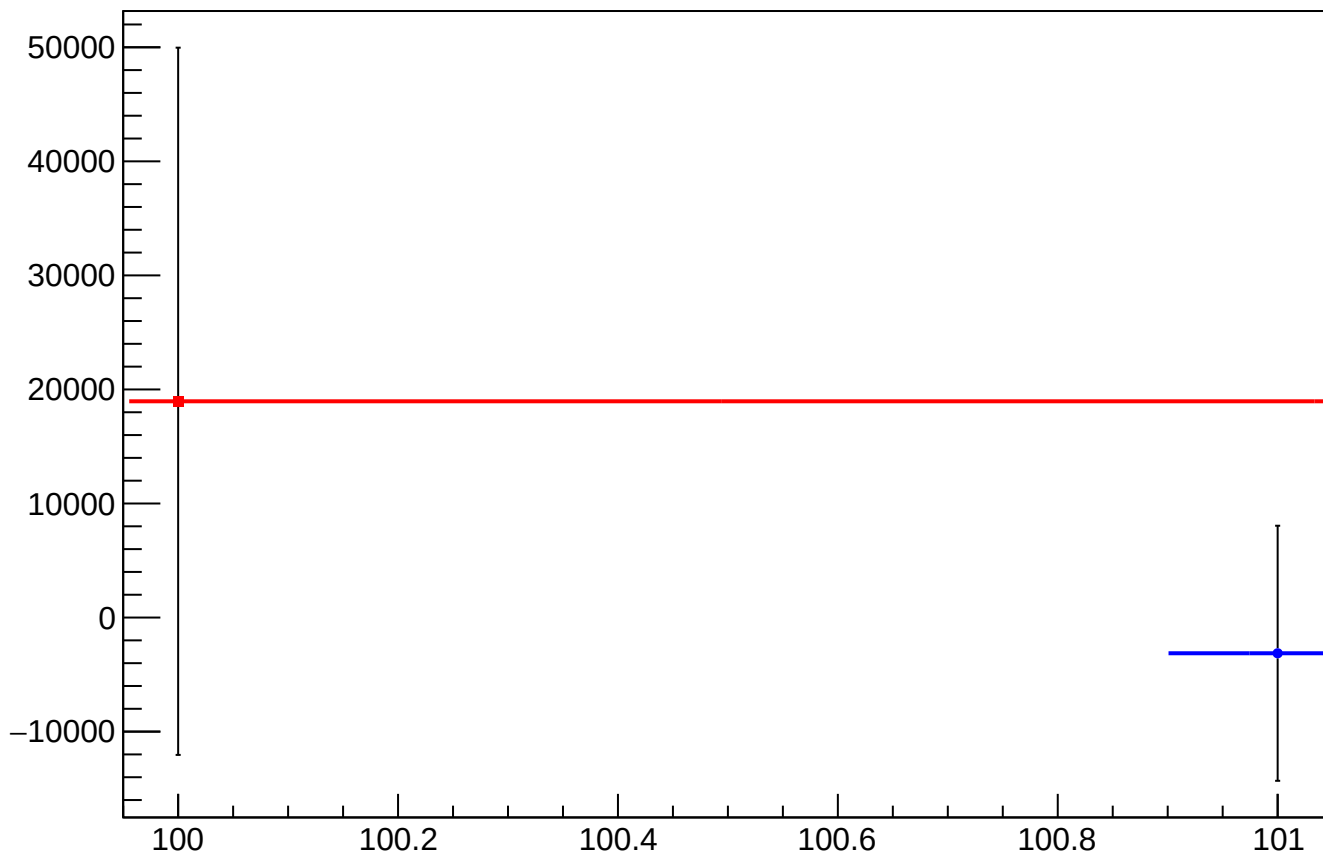
Right: 2750.285 $\pm$ 2.282  $\chi^2$ /NDF: 1297.7/1

In: 2725.647 $\pm$ 2.382  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2750.285 $\pm$ 2.282  $\chi^2$ /NDF: 1297.7/1

asym\_at2\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -3131.190+/-11181.976  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18961.309+/-31004.769  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

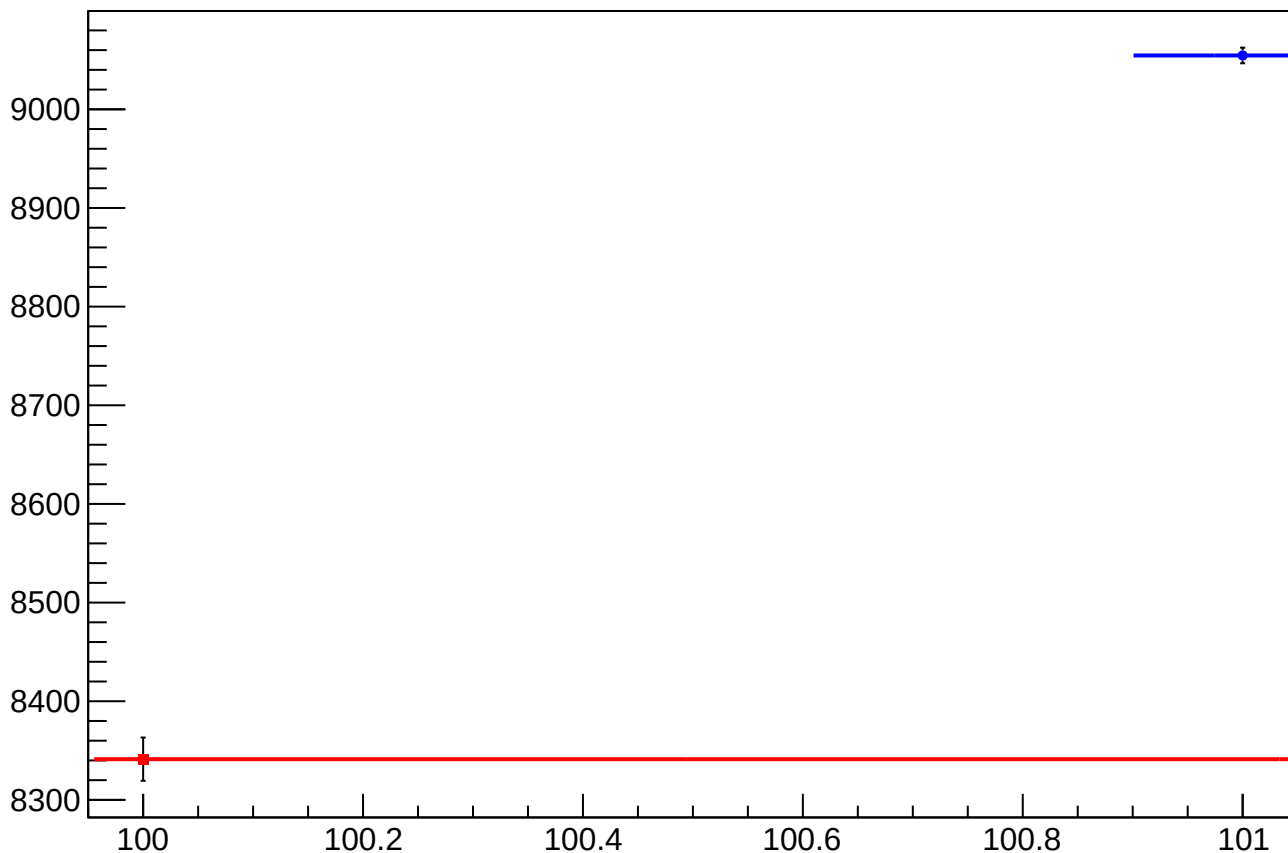
Right: -588.349+/-10518.788  $\chi^2/\text{NDF}$ : 0.4/1

In: -3131.190+/-11181.976  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -588.349+/-10518.788  $\chi^2/\text{NDF}$ : 0.4/1

asym\_at2\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 9054.580 $\pm$ 7.907  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8341.286 $\pm$ 21.924  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 8972.480 $\pm$ 7.438  $\chi^2/\text{NDF}$ : 936.7/1

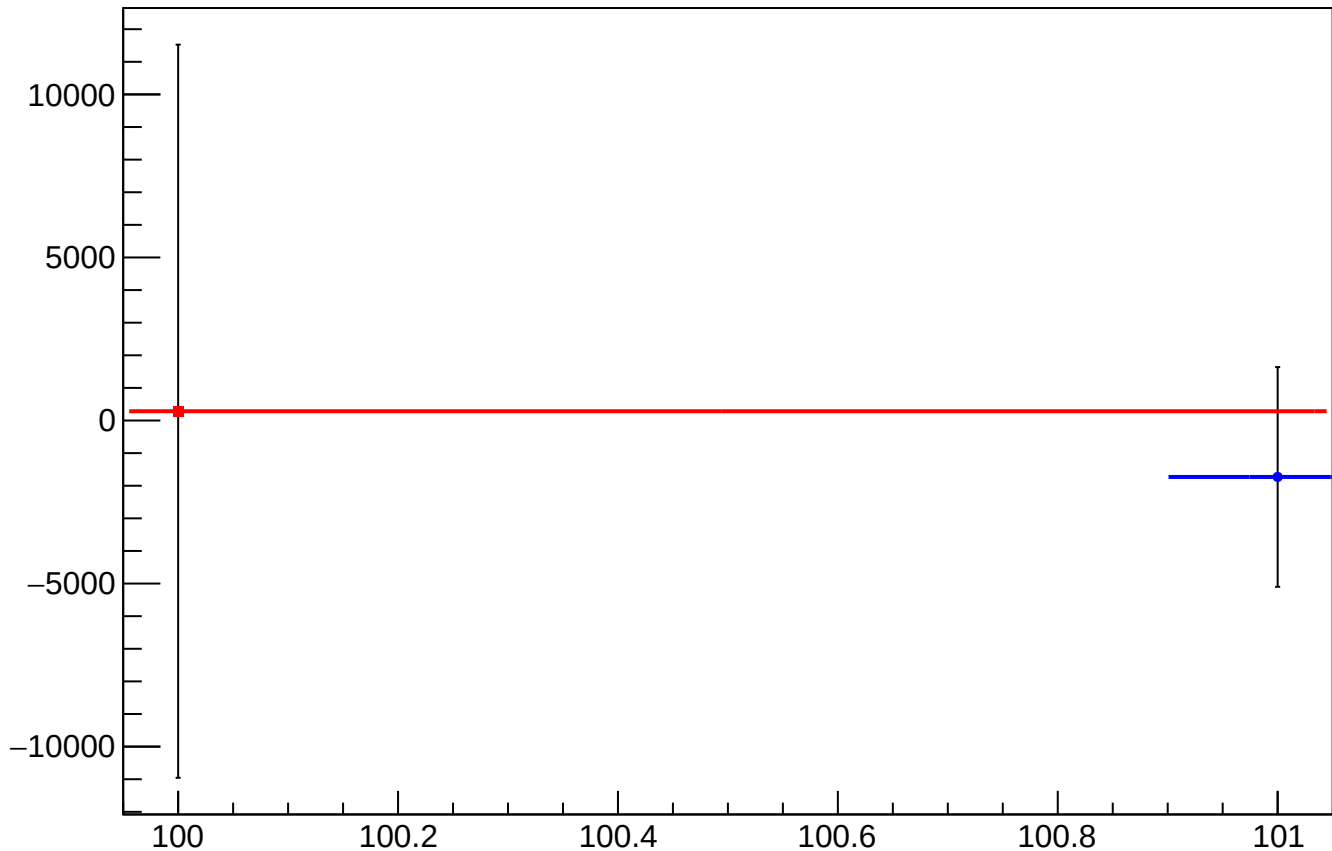
In: 9054.580 $\pm$ 7.907  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8972.480 $\pm$ 7.438  $\chi^2/\text{NDF}$ : 936.7/1



# cor\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: -1730.792 $\pm$ 3369.059  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 284.603 $\pm$ 11240.875  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

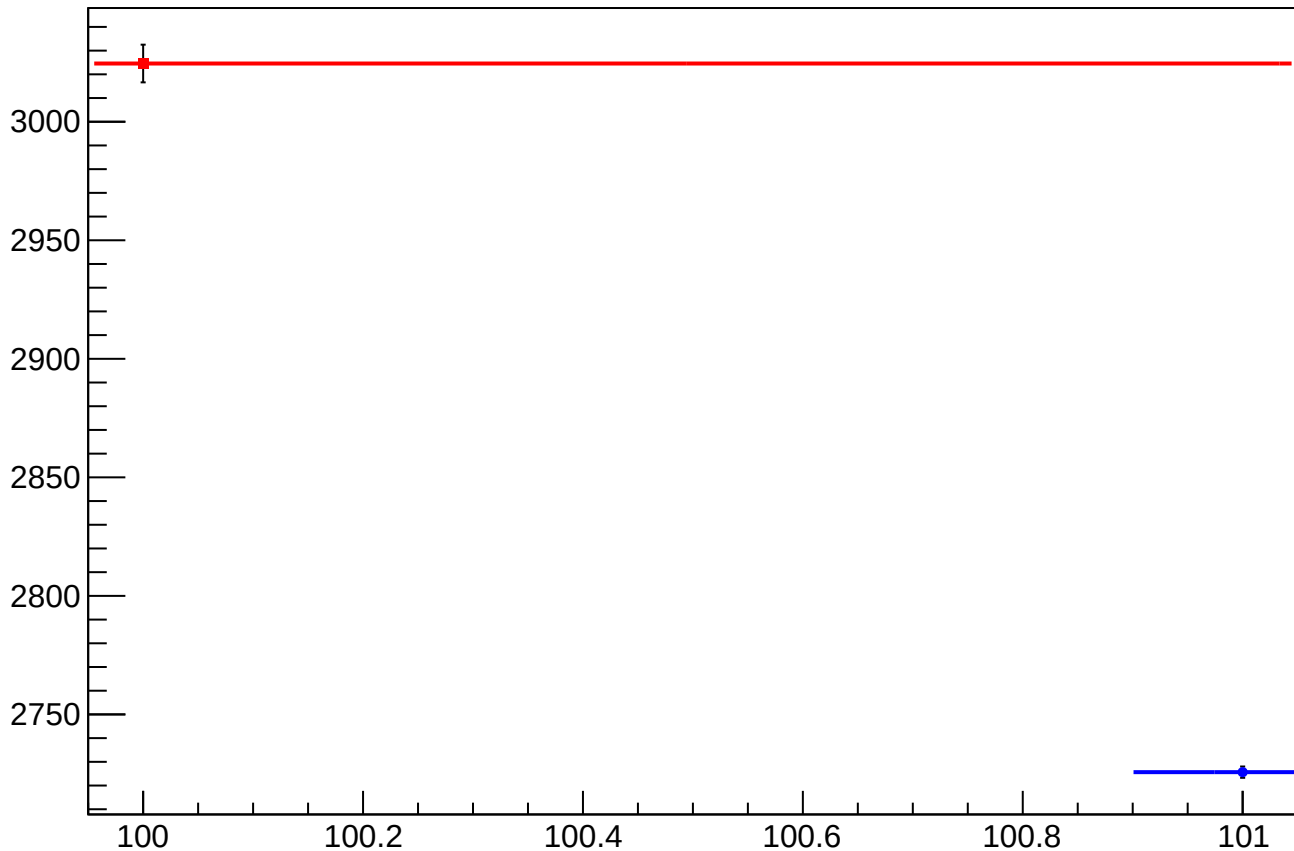
Right: -1564.673 $\pm$ 3227.226  $\chi^2$ /NDF: 0.0/1

In: -1730.792 $\pm$ 3369.059  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1564.673 $\pm$ 3227.226  $\chi^2$ /NDF: 0.0/1

# cor\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 2725.647 $\pm$ 2.382  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3024.562 $\pm$ 7.948  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

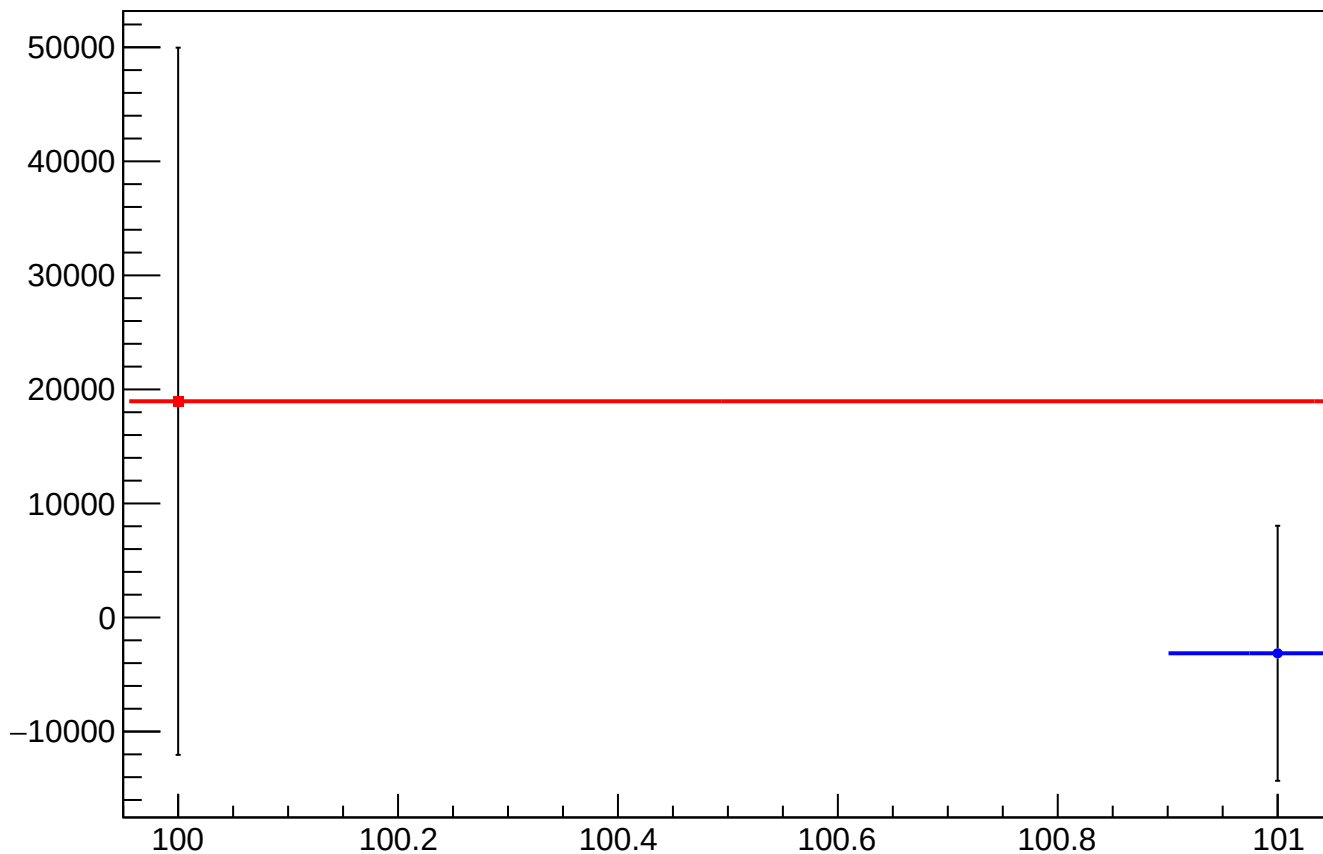
Right: 2750.285 $\pm$ 2.282  $\chi^2$ /NDF: 1297.7/1

In: 2725.647 $\pm$ 2.382  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2750.285 $\pm$ 2.282  $\chi^2$ /NDF: 1297.7/1

asym\_at2\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3137.172+/-11180.934  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18961.631+/-31004.756  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

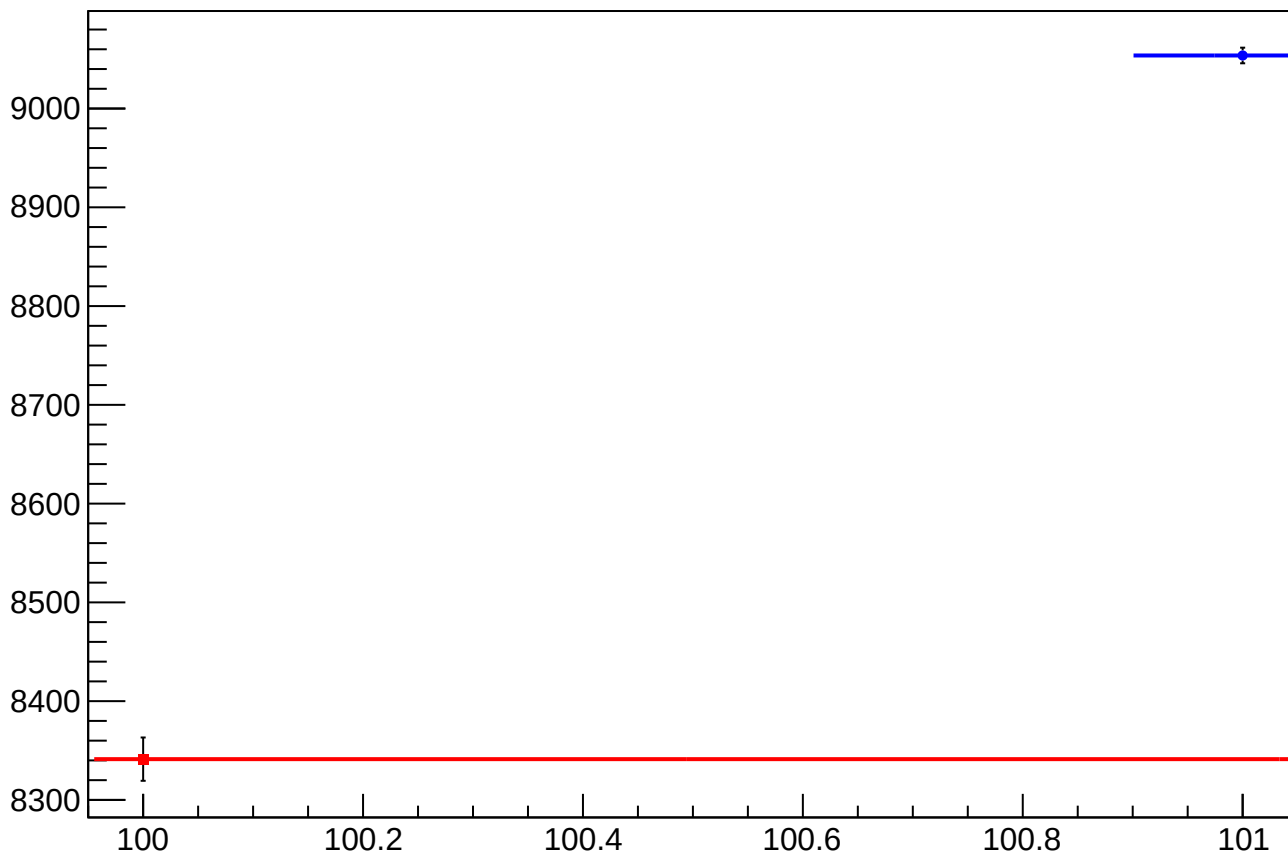
Right: -594.022+/-10517.921  $\chi^2/\text{NDF}$ : 0.4/1

In: -3137.172+/-11180.934  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -594.022+/-10517.921  $\chi^2/\text{NDF}$ : 0.4/1

asym\_at2\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 9053.723+/-7.906  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8341.283+/-21.924  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

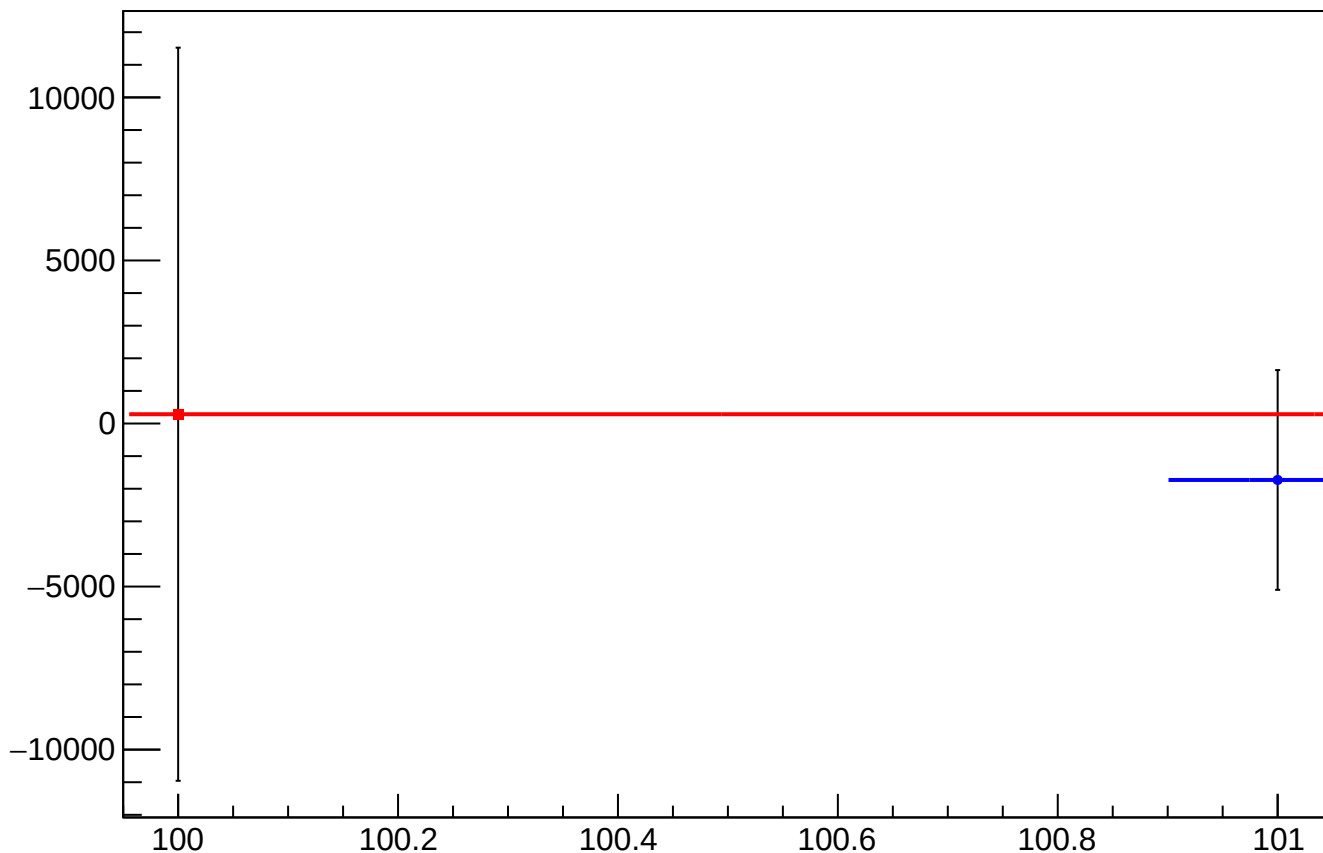
Right: 8971.735+/-7.437  $\chi^2/\text{NDF}$ : 934.5/1

In: 9053.723+/-7.906  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8971.735+/-7.437  $\chi^2/\text{NDF}$ : 934.5/1

eigen\_cor\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: -1730.792+/-3369.059  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 284.603+/-11240.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

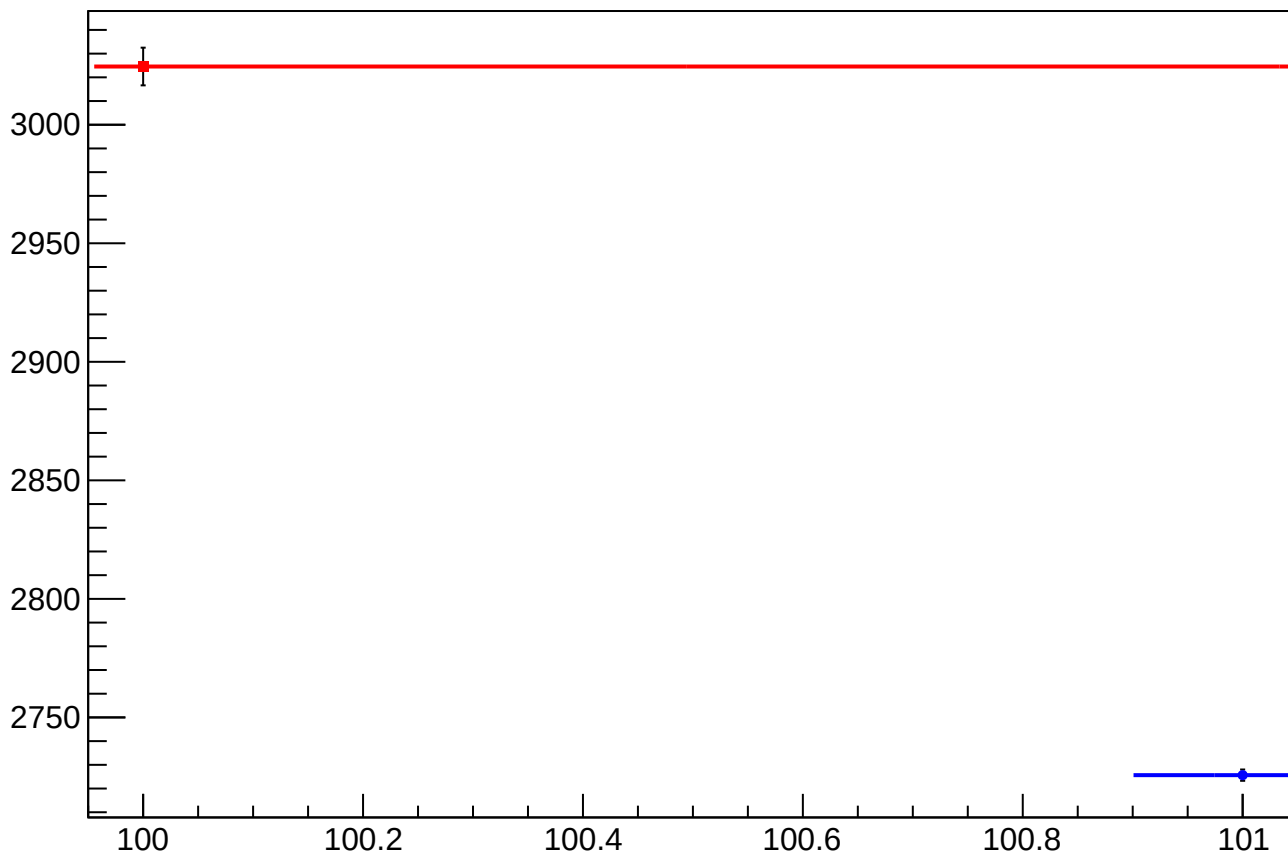
Right: -1564.673+/-3227.226  $\chi^2/\text{NDF}$ : 0.0/1

In: -1730.792+/-3369.059  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1564.673+/-3227.226  $\chi^2/\text{NDF}$ : 0.0/1

# eigen\_cor\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 2725.647 $\pm$ 2.382  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3024.562 $\pm$ 7.948  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

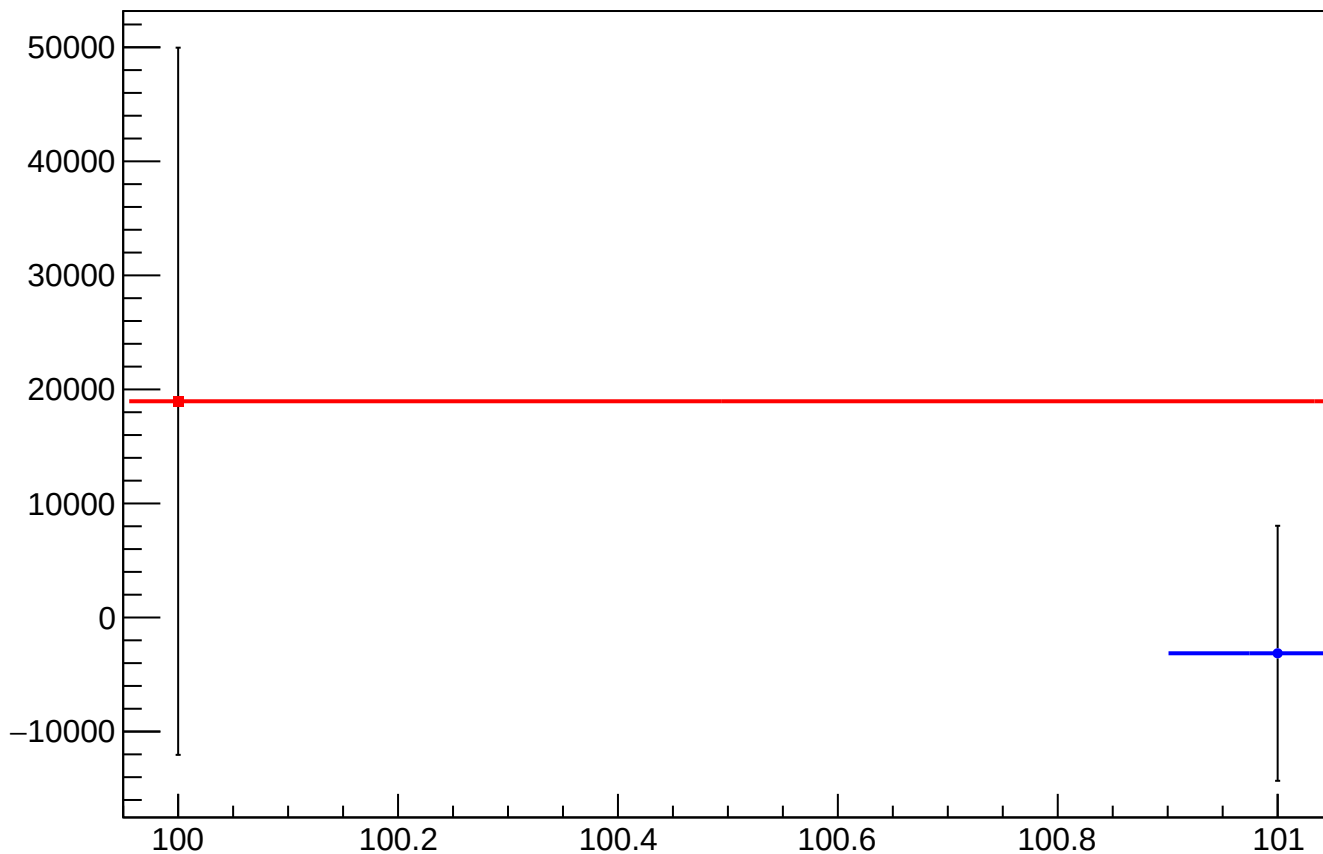
Right: 2750.285 $\pm$ 2.282  $\chi^2$ /NDF: 1297.7/1

In: 2725.647 $\pm$ 2.382  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2750.285 $\pm$ 2.282  $\chi^2$ /NDF: 1297.7/1

asym\_at2\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3137.172+/-11180.934  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18961.631+/-31004.756  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

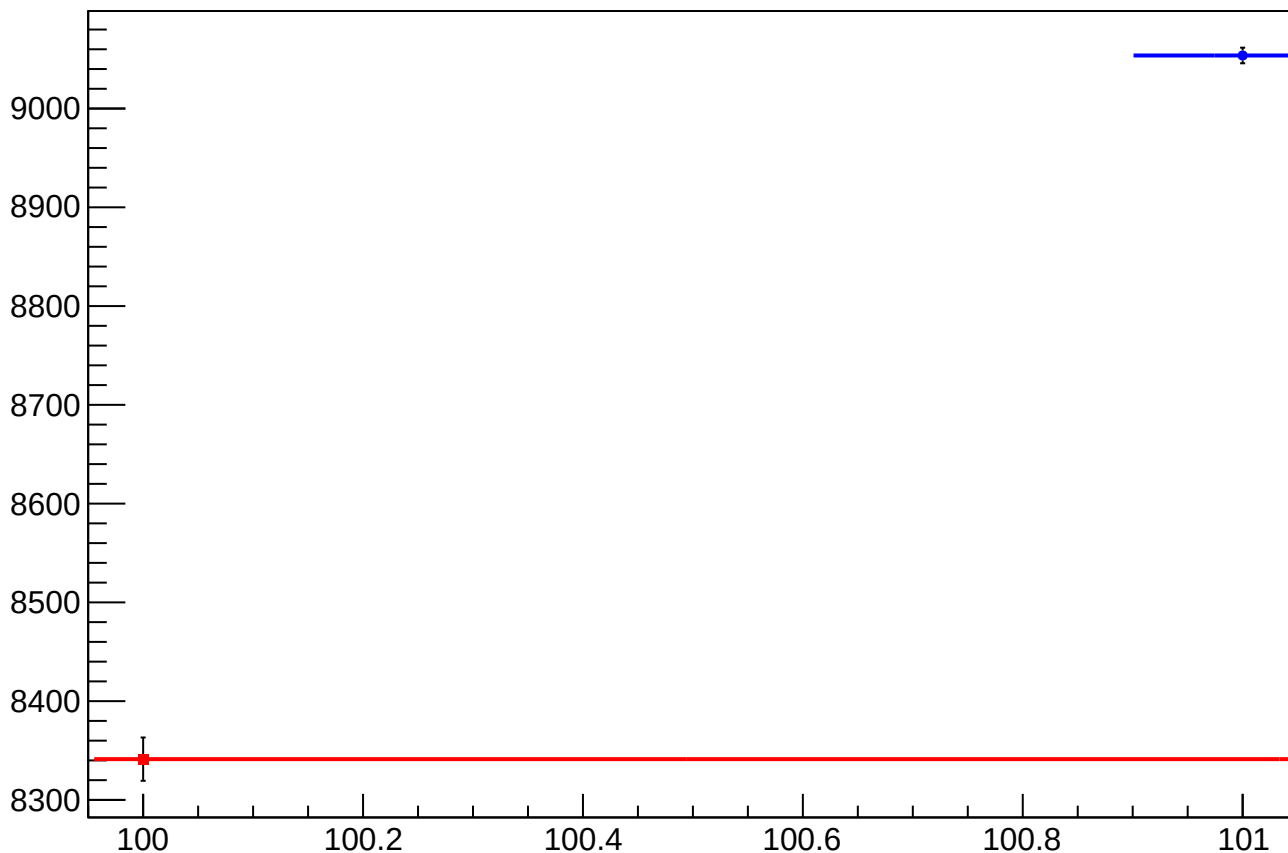
Right: -594.022+/-10517.921  $\chi^2/\text{NDF}$ : 0.4/1

In: -3137.172+/-11180.934  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -594.022+/-10517.921  $\chi^2/\text{NDF}$ : 0.4/1

asym\_at2\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 9053.723+/-7.906  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8341.283+/-21.924  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 8971.735+/-7.437  $\chi^2/\text{NDF}$ : 934.5/1

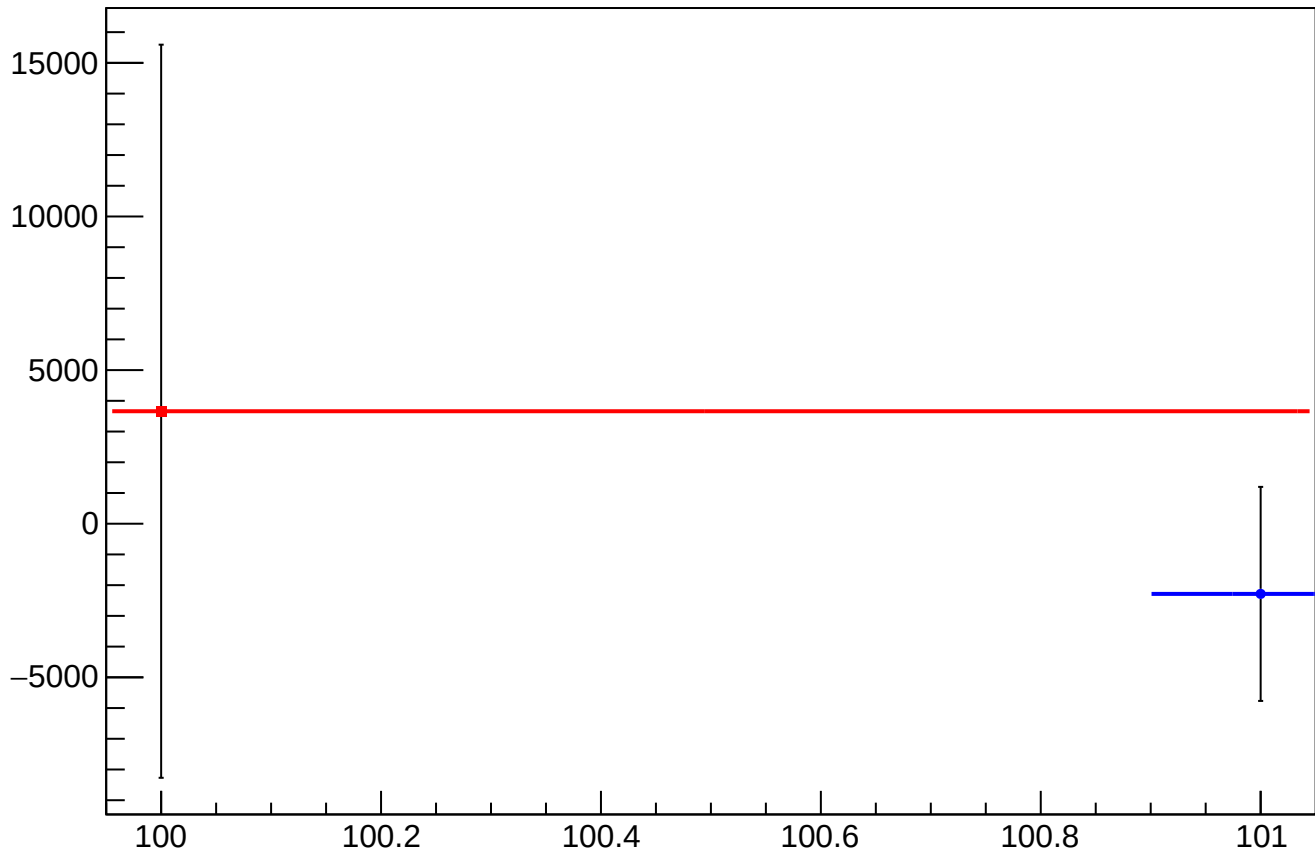
In: 9053.723+/-7.906  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8971.735+/-7.437  $\chi^2/\text{NDF}$ : 934.5/1



dit\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: -2284.644+/-3483.560  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3661.106+/-11931.308  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

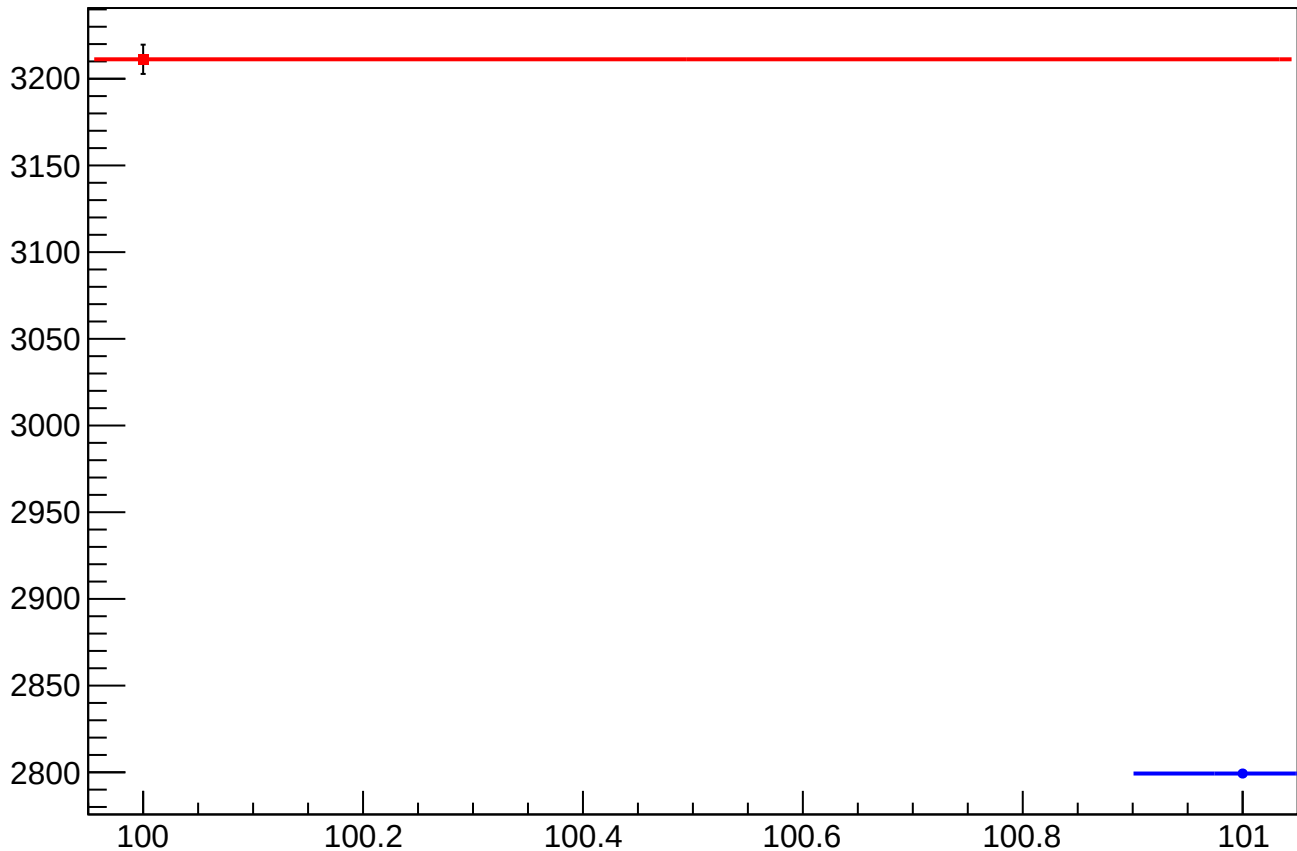
Right: -1817.609+/-3343.946  $\chi^2/\text{NDF}$ : 0.2/1

In: -2284.644+/-3483.560  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1817.609+/-3343.946  $\chi^2/\text{NDF}$ : 0.2/1

# dit\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 2799.287 $\pm$ 2.463  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3211.220 $\pm$ 8.437  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

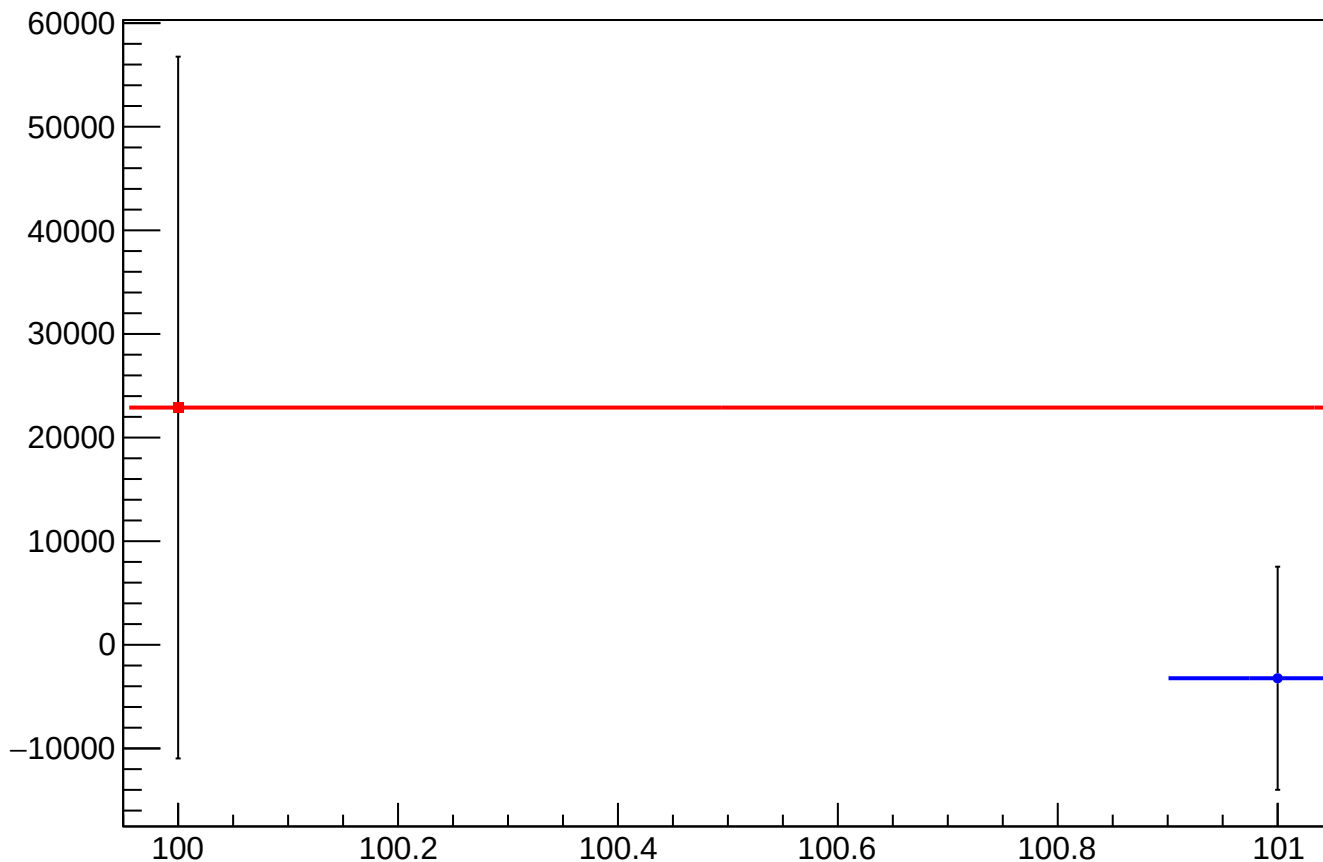
Right: 2831.644 $\pm$ 2.365  $\chi^2/\text{NDF}$ : 2196.7/1

In: 2799.287 $\pm$ 2.463  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2831.644 $\pm$ 2.365  $\chi^2/\text{NDF}$ : 2196.7/1

asym\_at2\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3227.084+/-10766.032  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22897.992+/-33863.141  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

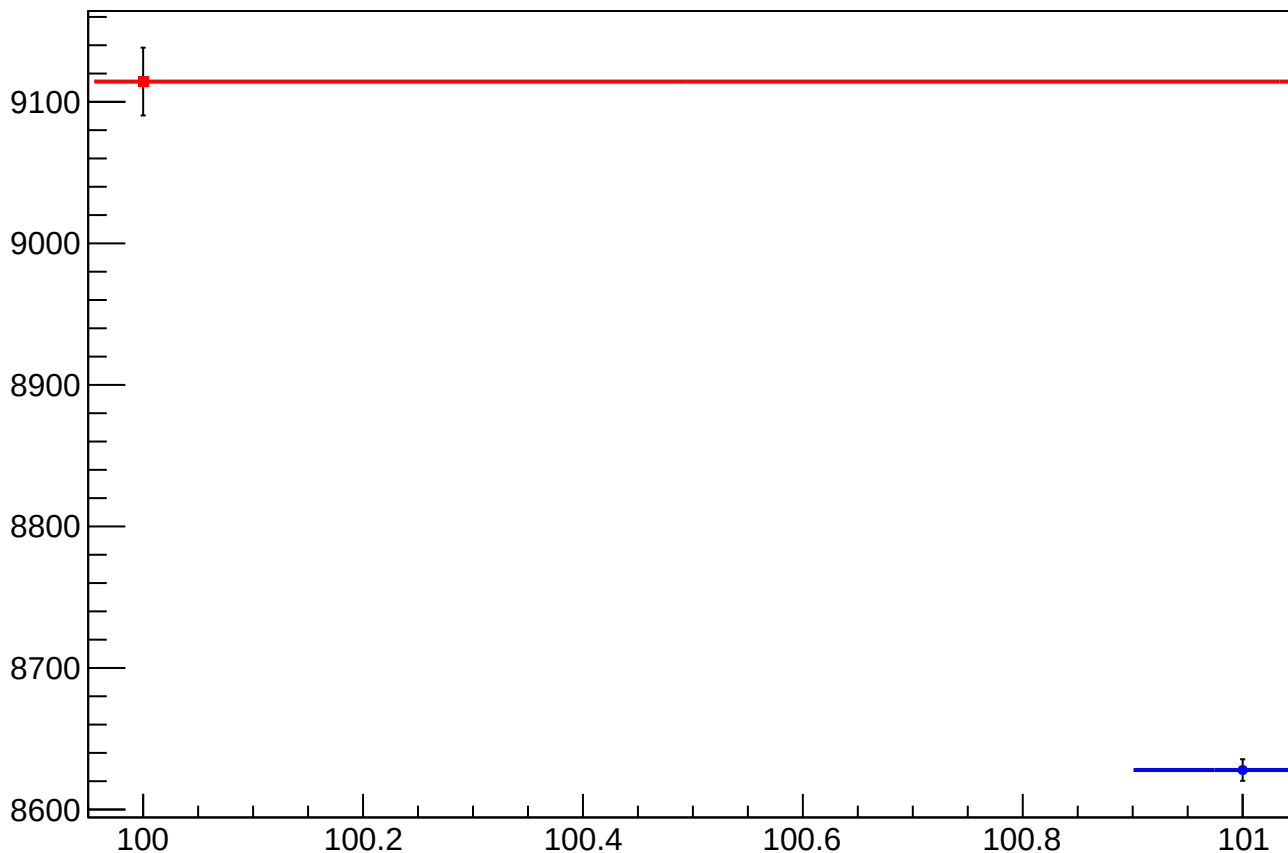
Right: -828.824+/-10259.982  $\chi^2/\text{NDF}$ : 0.5/1

In: -3227.084+/-10766.032  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -828.824+/-10259.982  $\chi^2/\text{NDF}$ : 0.5/1

asym\_at2\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 8627.900 $\pm$ 7.613  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9114.336 $\pm$ 23.945  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

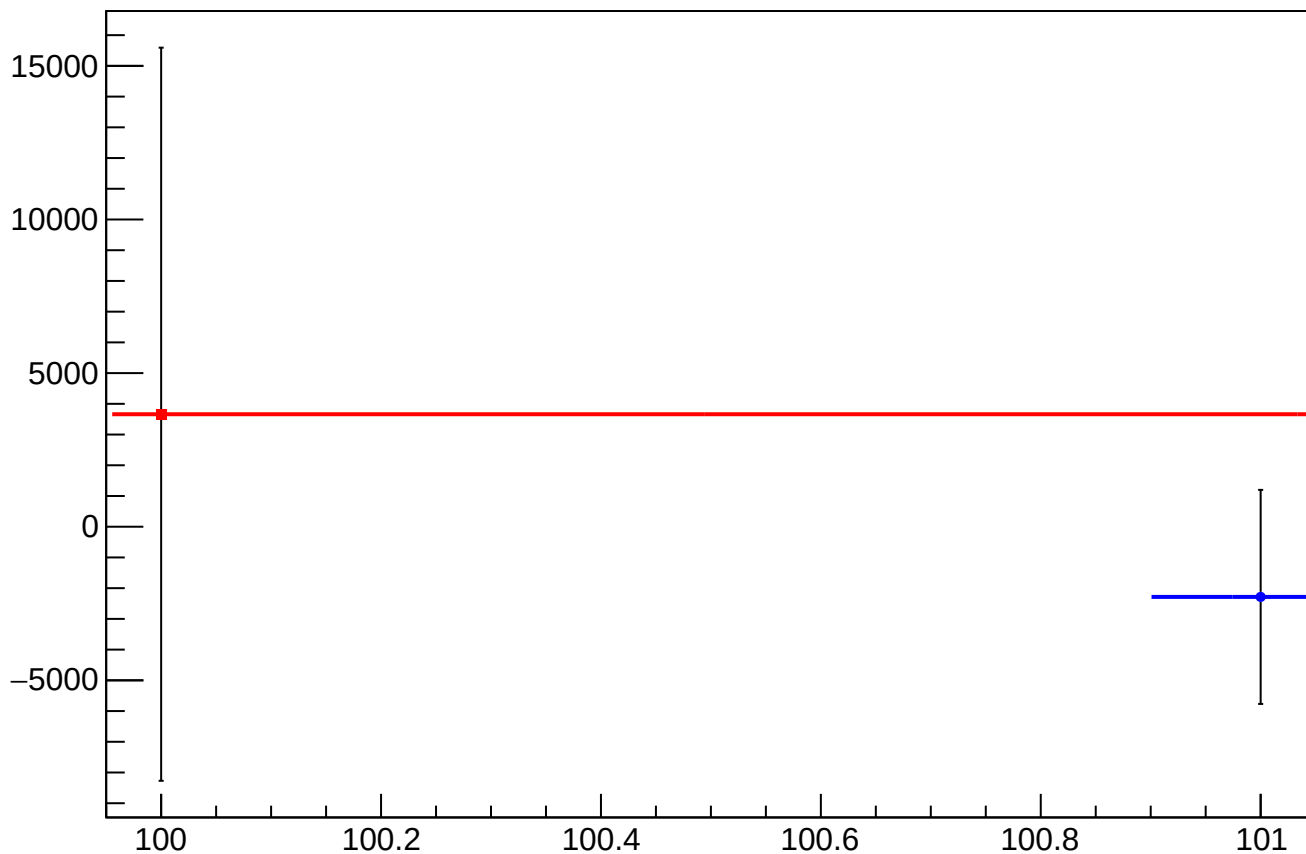
Right: 8672.555 $\pm$ 7.255  $\chi^2/\text{NDF}$ : 374.8/1

In: 8627.900 $\pm$ 7.613  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8672.555 $\pm$ 7.255  $\chi^2/\text{NDF}$ : 374.8/1

eigen\_dit\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: -2284.686+/-3483.559  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3661.279+/-11931.306  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

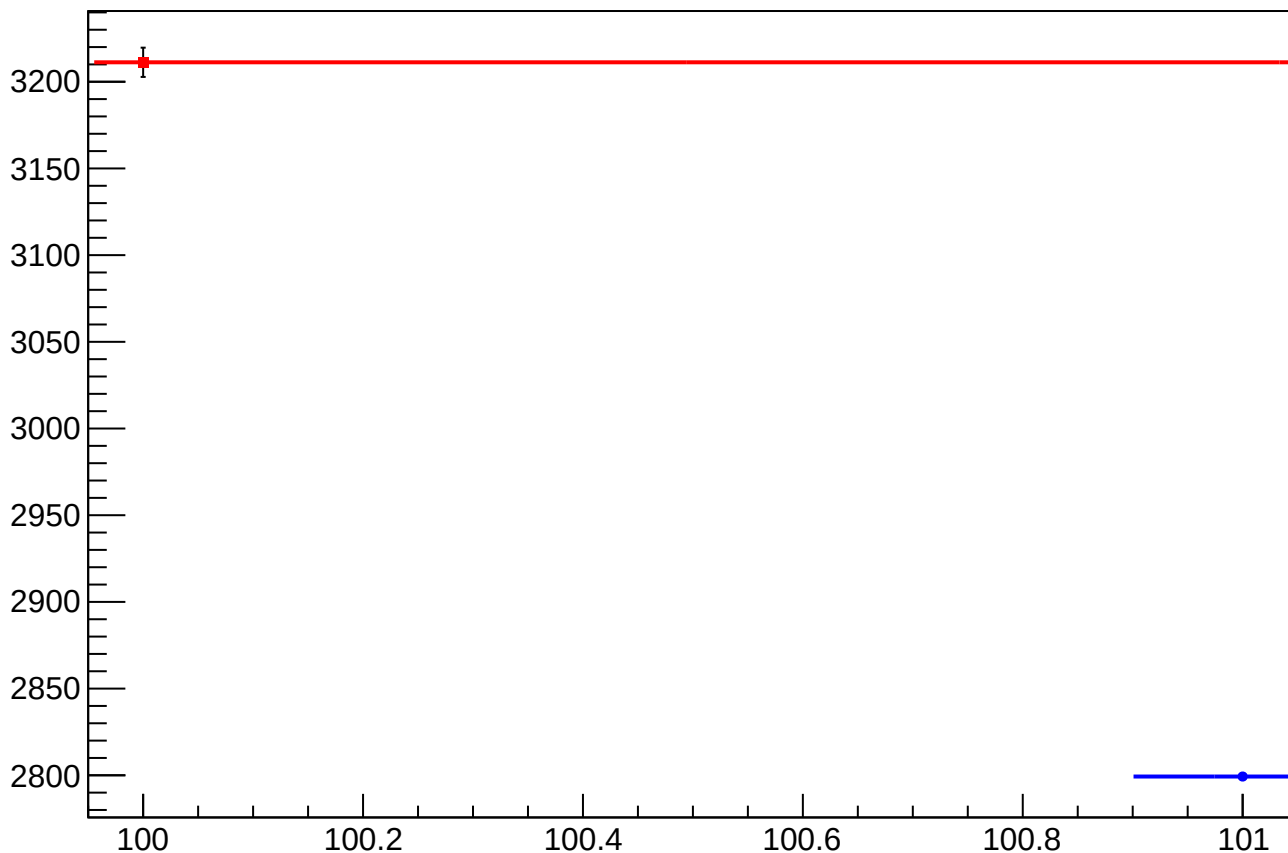
Right: -1817.634+/-3343.945  $\chi^2/\text{NDF}$ : 0.2/1

In: -2284.686+/-3483.559  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1817.634+/-3343.945  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_dit\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 2799.286 $\pm$ 2.463  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3211.220 $\pm$ 8.437  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

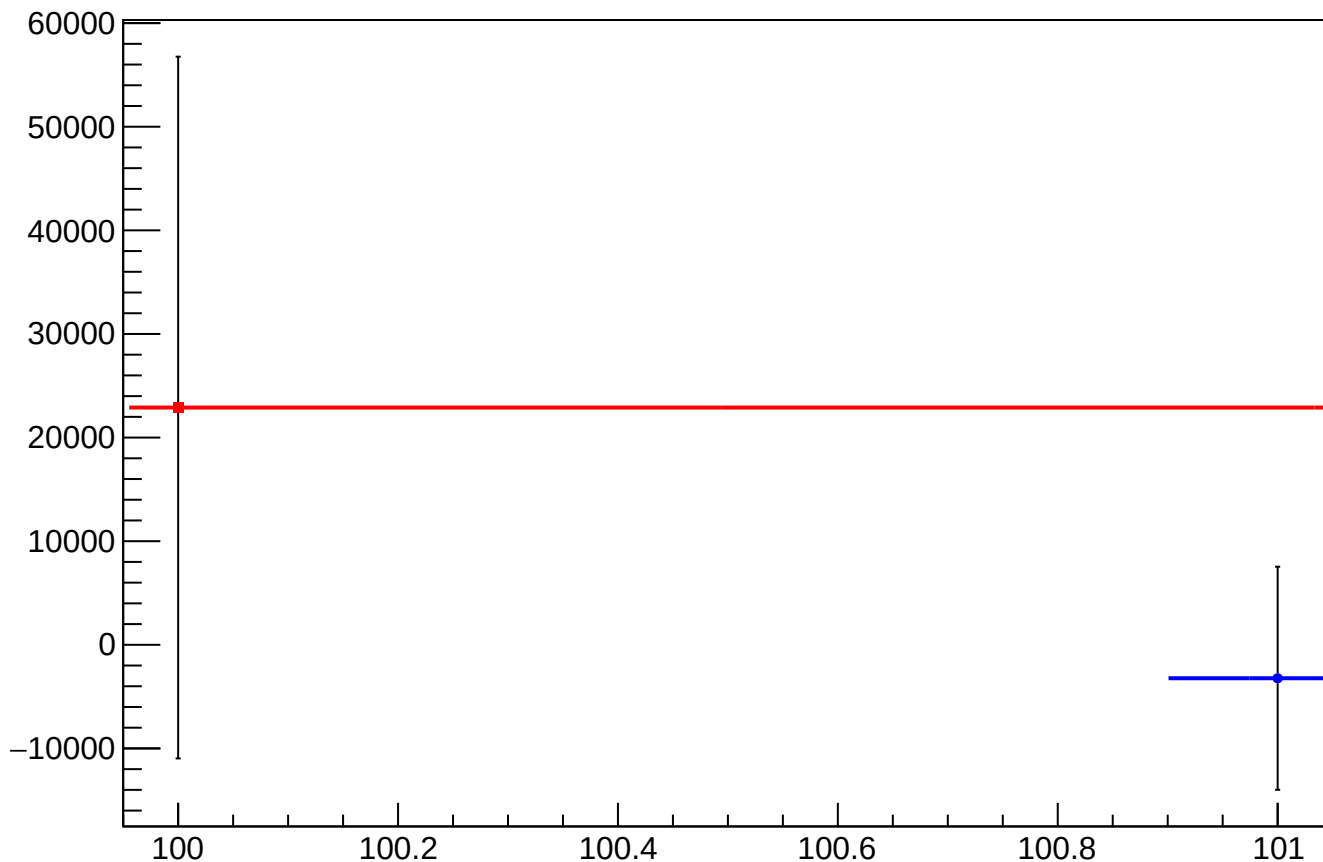
Right: 2831.643 $\pm$ 2.365  $\chi^2$ /NDF: 2196.8/1

In: 2799.286 $\pm$ 2.463  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2831.643 $\pm$ 2.365  $\chi^2$ /NDF: 2196.8/1

asym\_at2\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3227.113+/-10766.020  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22898.147+/-33863.082  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

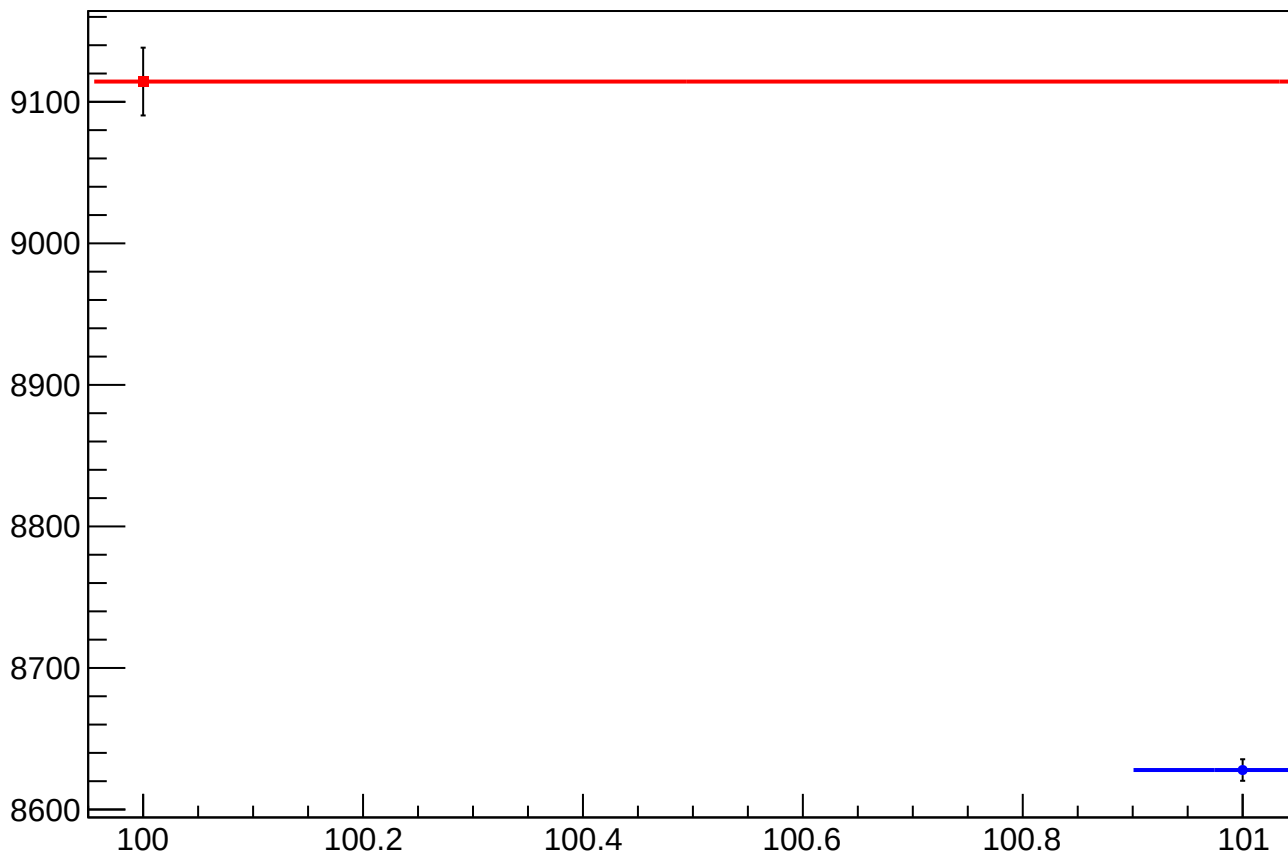
Right: -828.833+/-10259.971  $\chi^2/\text{NDF}$ : 0.5/1

In: -3227.113+/-10766.020  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -828.833+/-10259.971  $\chi^2/\text{NDF}$ : 0.5/1

asym\_at2\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 8627.891+/-7.613  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9114.321+/-23.945  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 8672.545+/-7.255  $\chi^2/\text{NDF}$ : 374.8/1

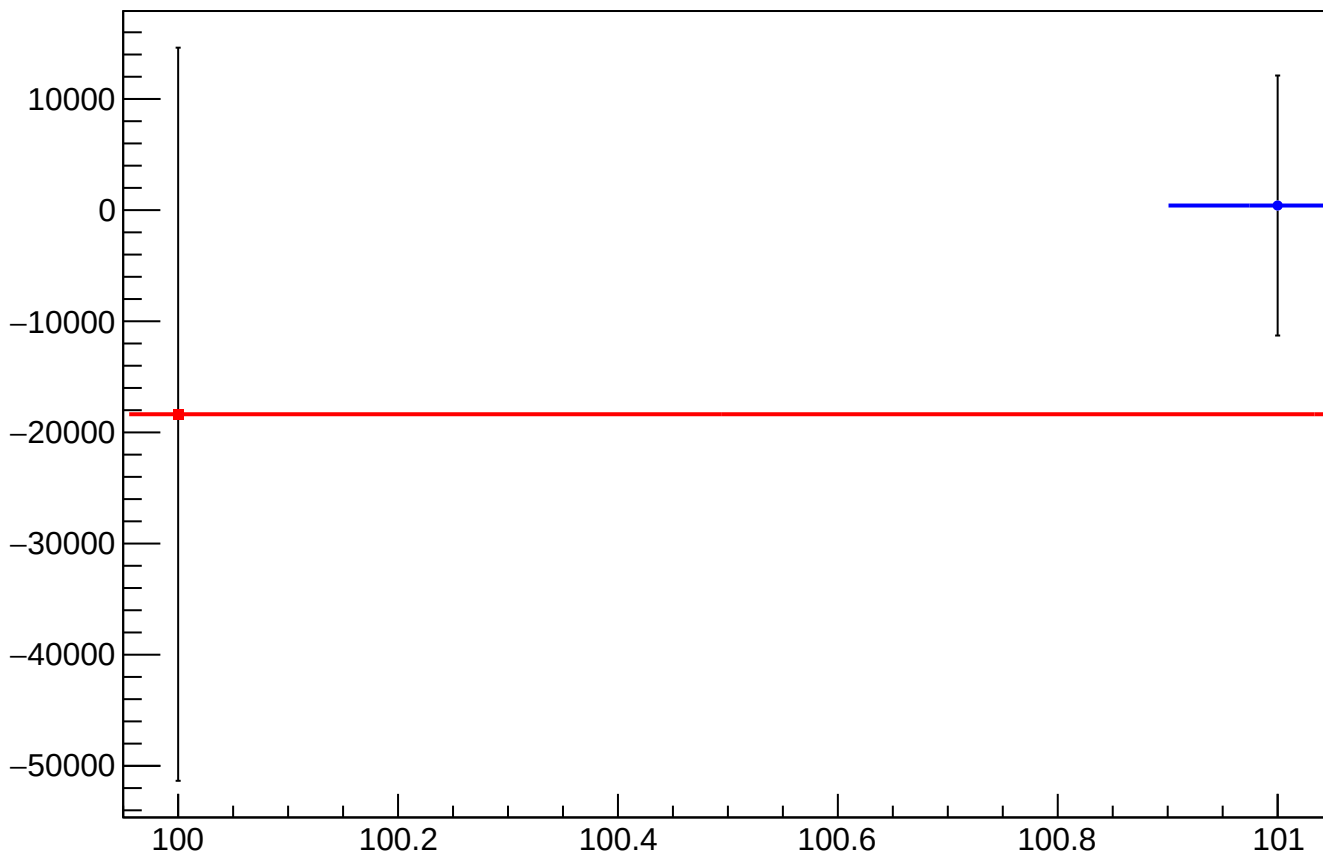
In: 8627.891+/-7.613  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8672.545+/-7.255  $\chi^2/\text{NDF}$ : 374.8/1



# asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: 413.549+/-11696.689  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -18364.514+/-32980.480  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

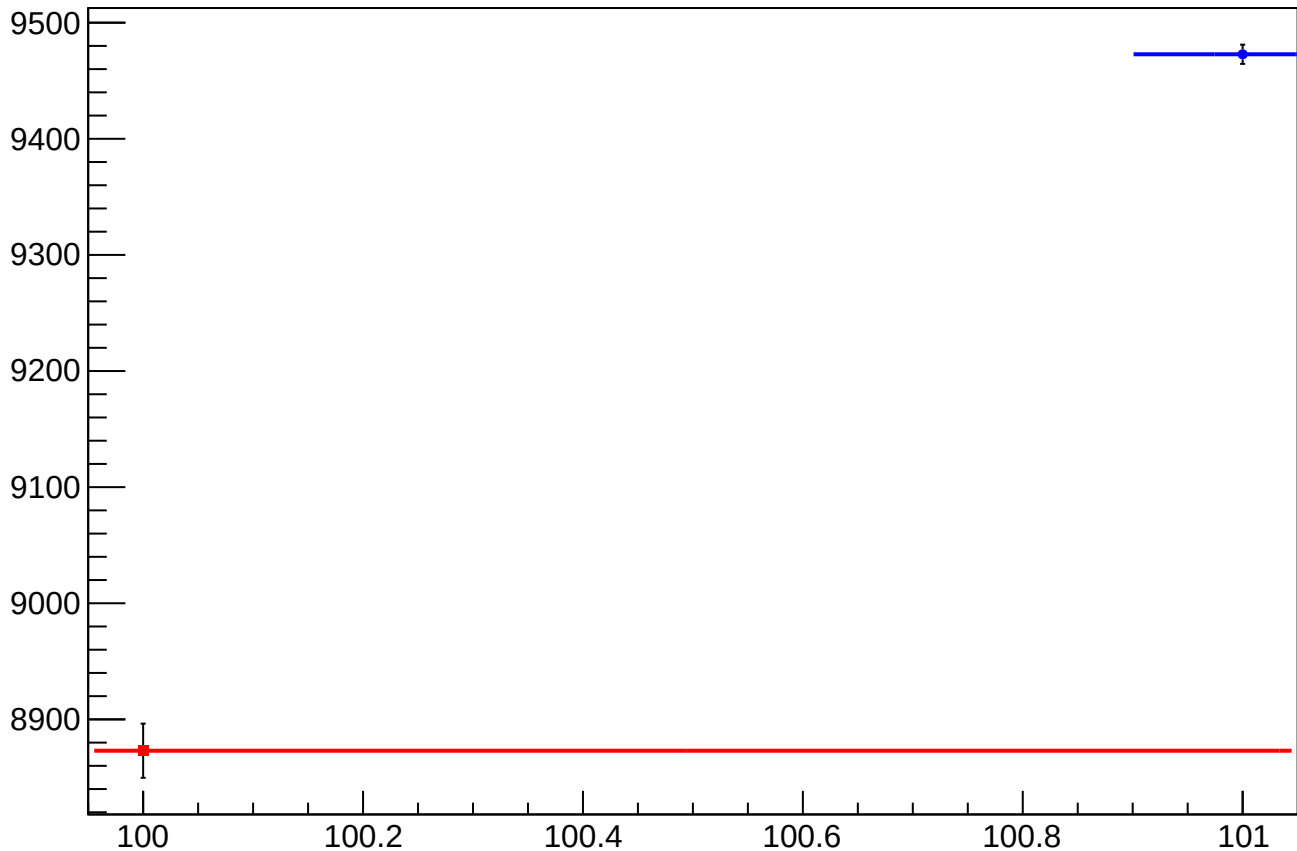
Right: -1684.469+/-11023.923  $\chi^2$ /NDF: 0.3/1

In: 413.549+/-11696.689  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -1684.469+/-11023.923  $\chi^2$ /NDF: 0.3/1

# asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 9472.791 $\pm$ 8.271  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8873.014 $\pm$ 23.321  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

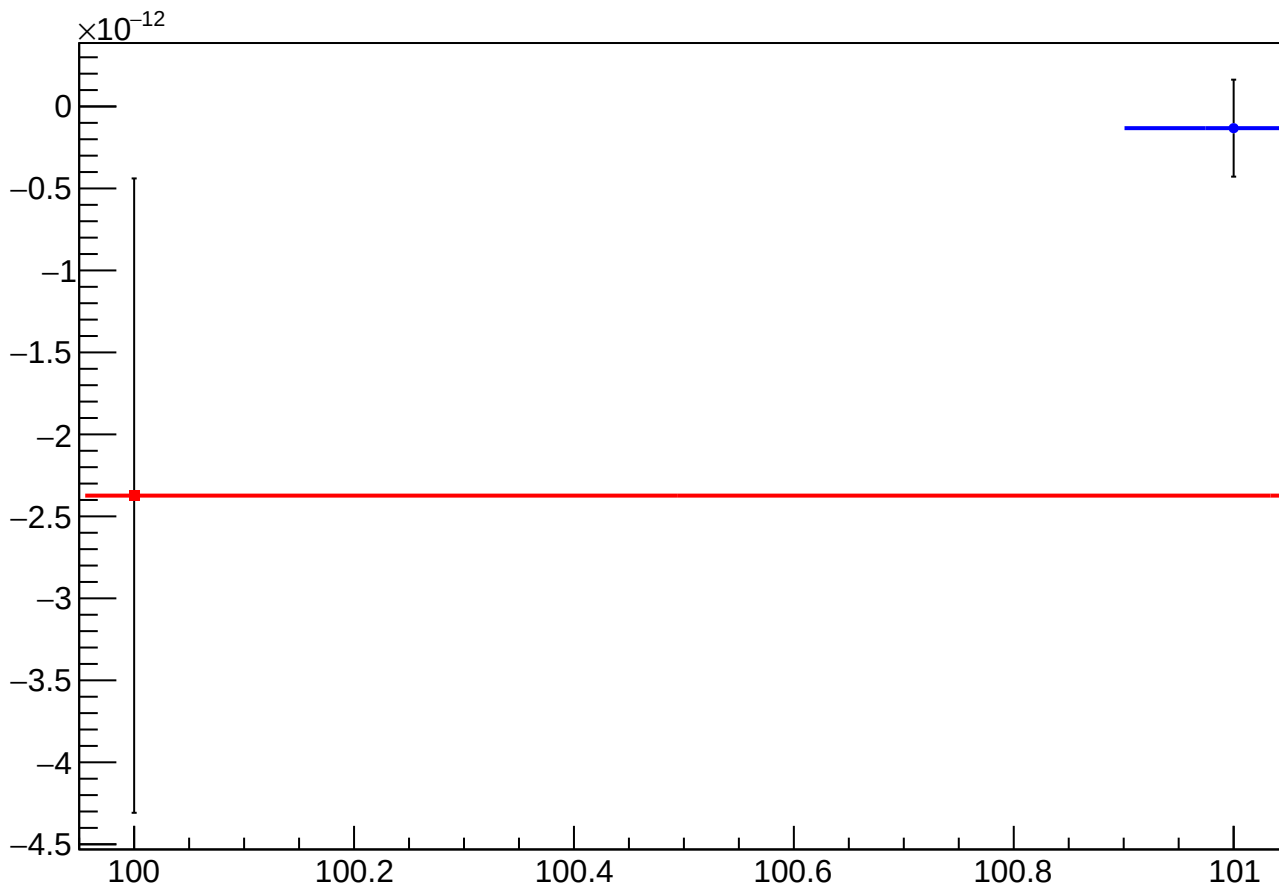
Right: 9405.780 $\pm$ 7.795  $\chi^2$ /NDF: 587.5/1

In: 9472.791 $\pm$ 8.271  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9405.780 $\pm$ 7.795  $\chi^2$ /NDF: 587.5/1

asym\_at2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

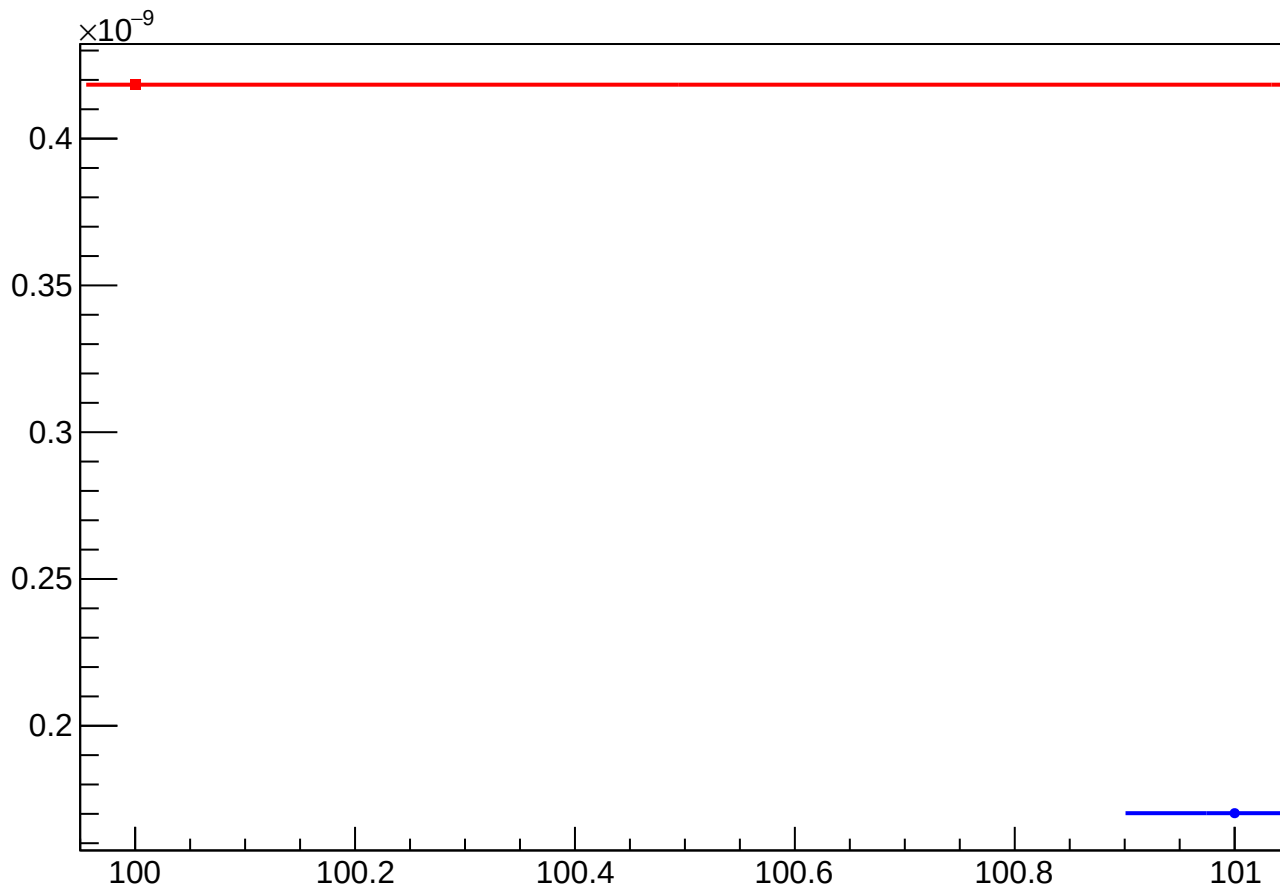
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.3/1

asym\_at2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

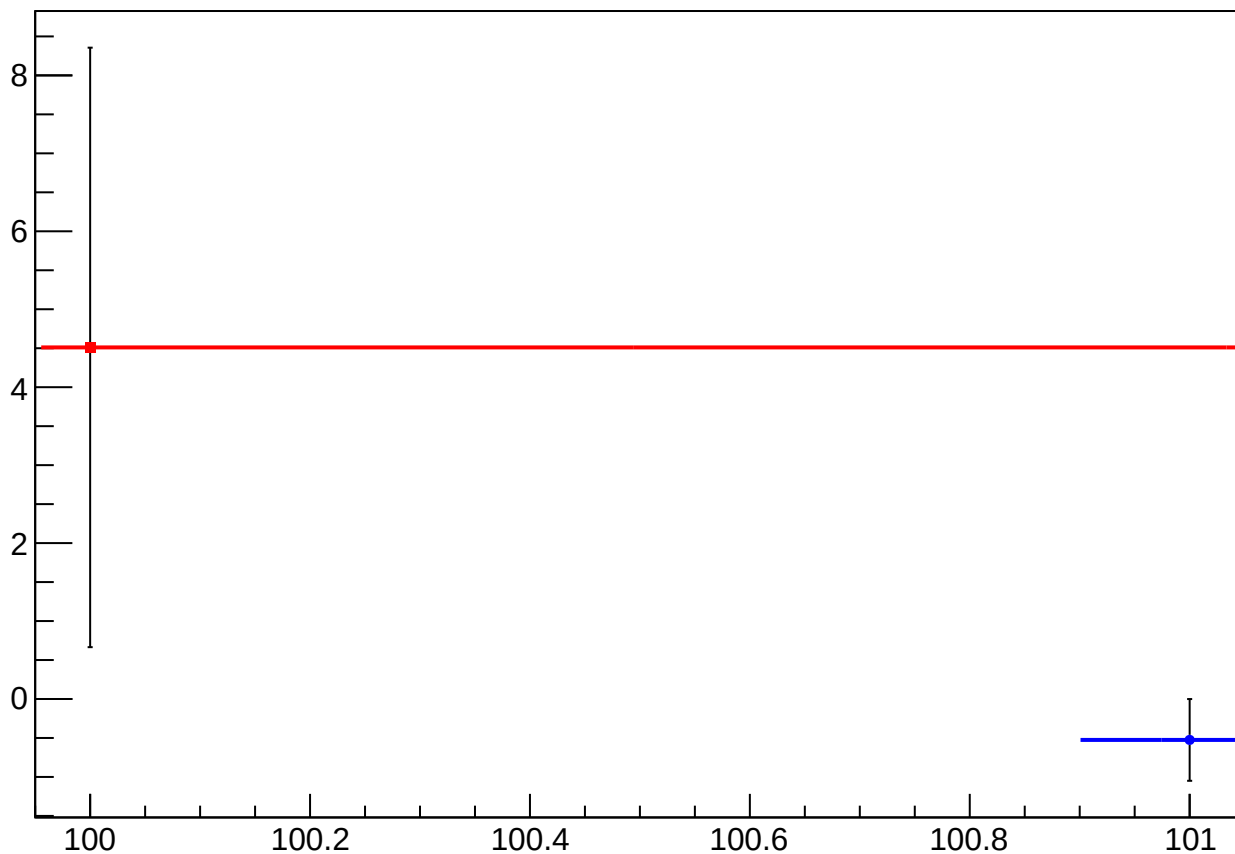
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 32155.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 32155.2/1

asym\_at2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.525+/-0.524  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.510+/-3.845  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

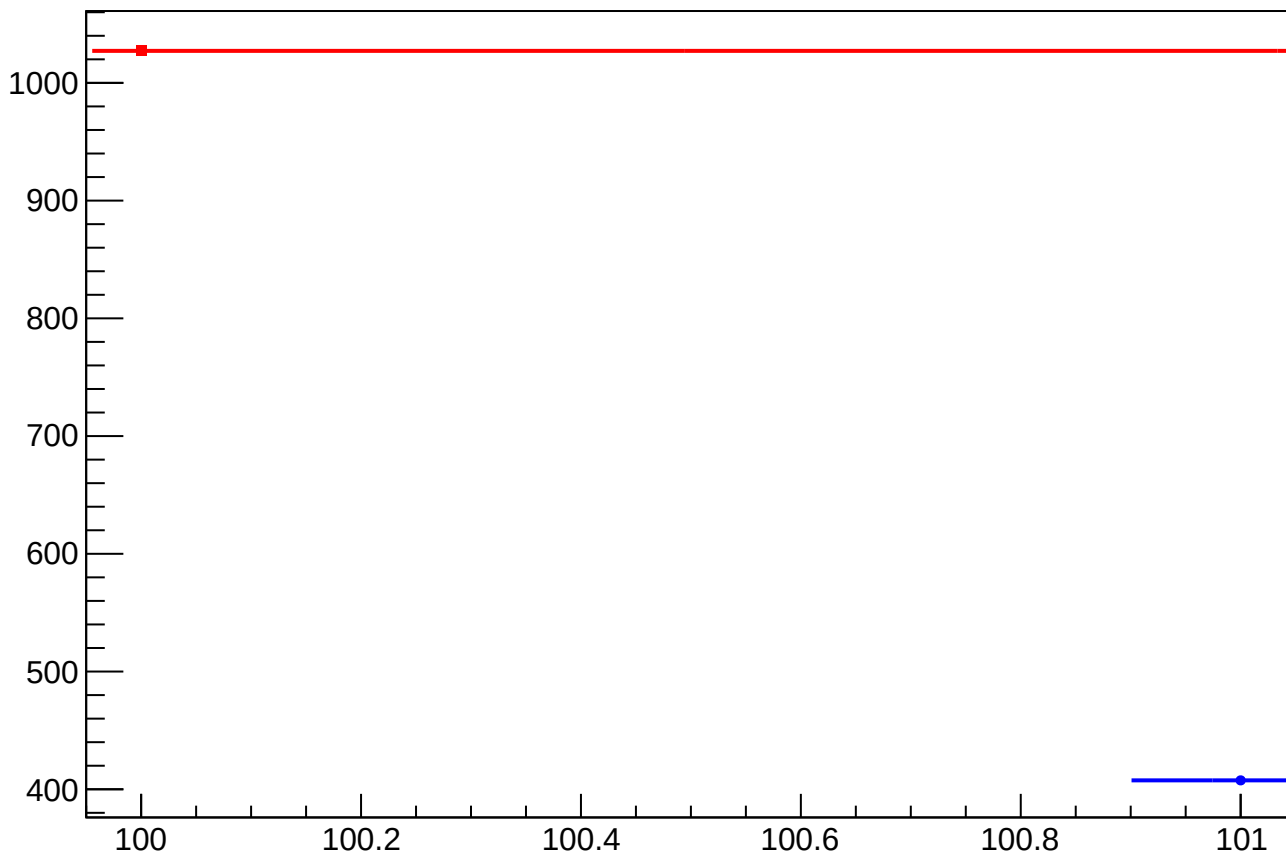
Right: -0.433+/-0.520  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.525+/-0.524  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.433+/-0.520  $\chi^2/\text{NDF}$ : 1.7/1

asym\_at2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 407.571 $\pm$ 0.371  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1027.186 $\pm$ 2.719  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

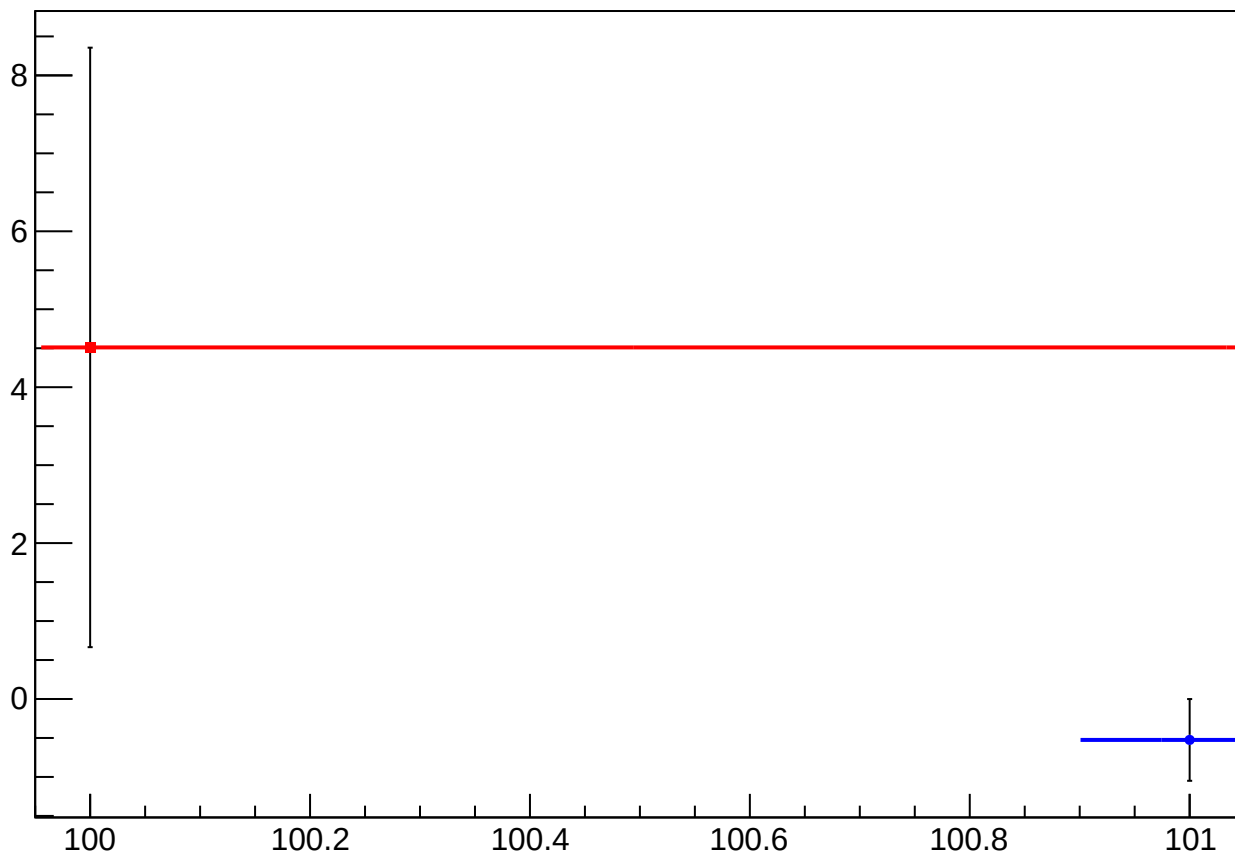
Right: 418.884 $\pm$ 0.367  $\chi^2$ /NDF: 50979.6/1

In: 407.571 $\pm$ 0.371  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 418.884 $\pm$ 0.367  $\chi^2$ /NDF: 50979.6/1

asym\_at2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.525+/-0.524  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.510+/-3.845  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

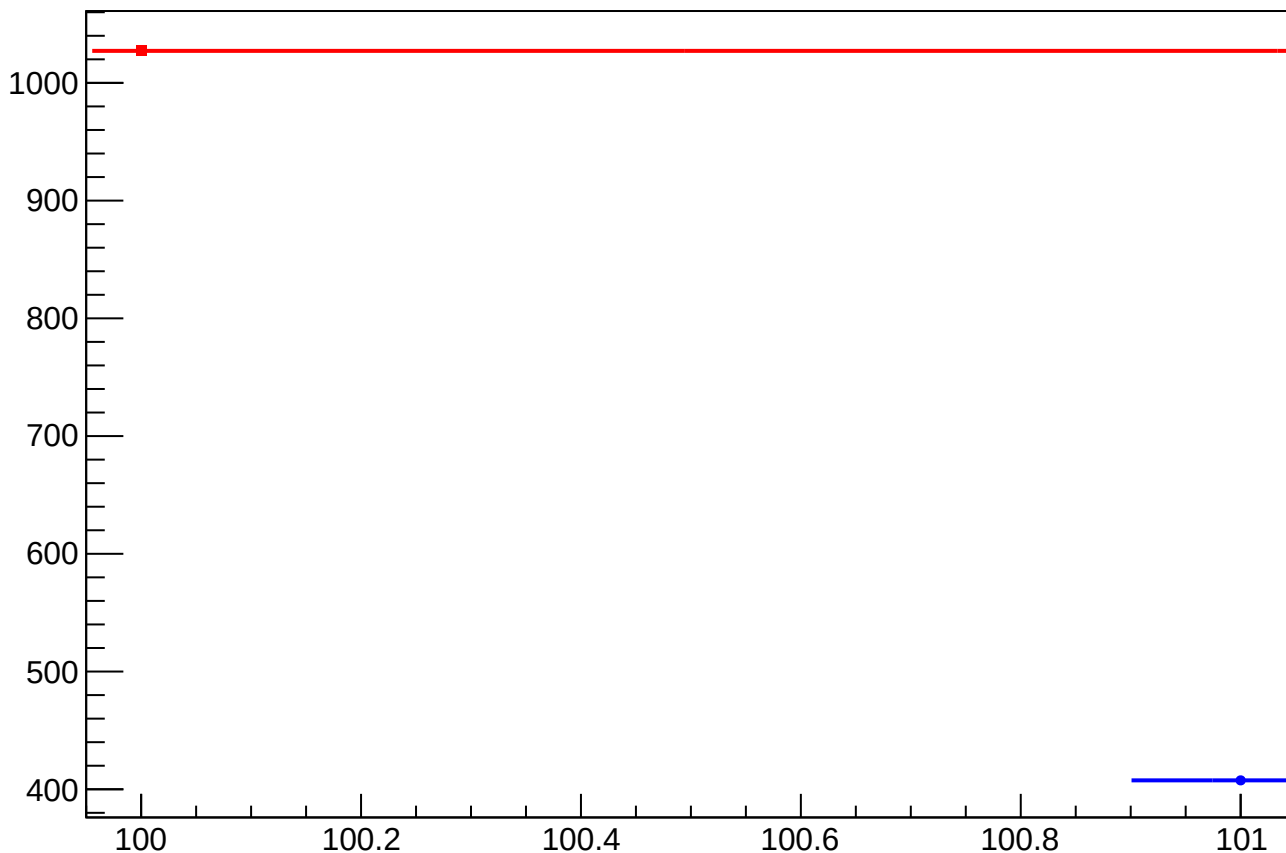
Right: -0.433+/-0.520  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.525+/-0.524  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.433+/-0.520  $\chi^2/\text{NDF}$ : 1.7/1

asym\_at2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 407.571 $\pm$ 0.371  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1027.186 $\pm$ 2.719  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 418.884 $\pm$ 0.367  $\chi^2$ /NDF: 50979.6/1

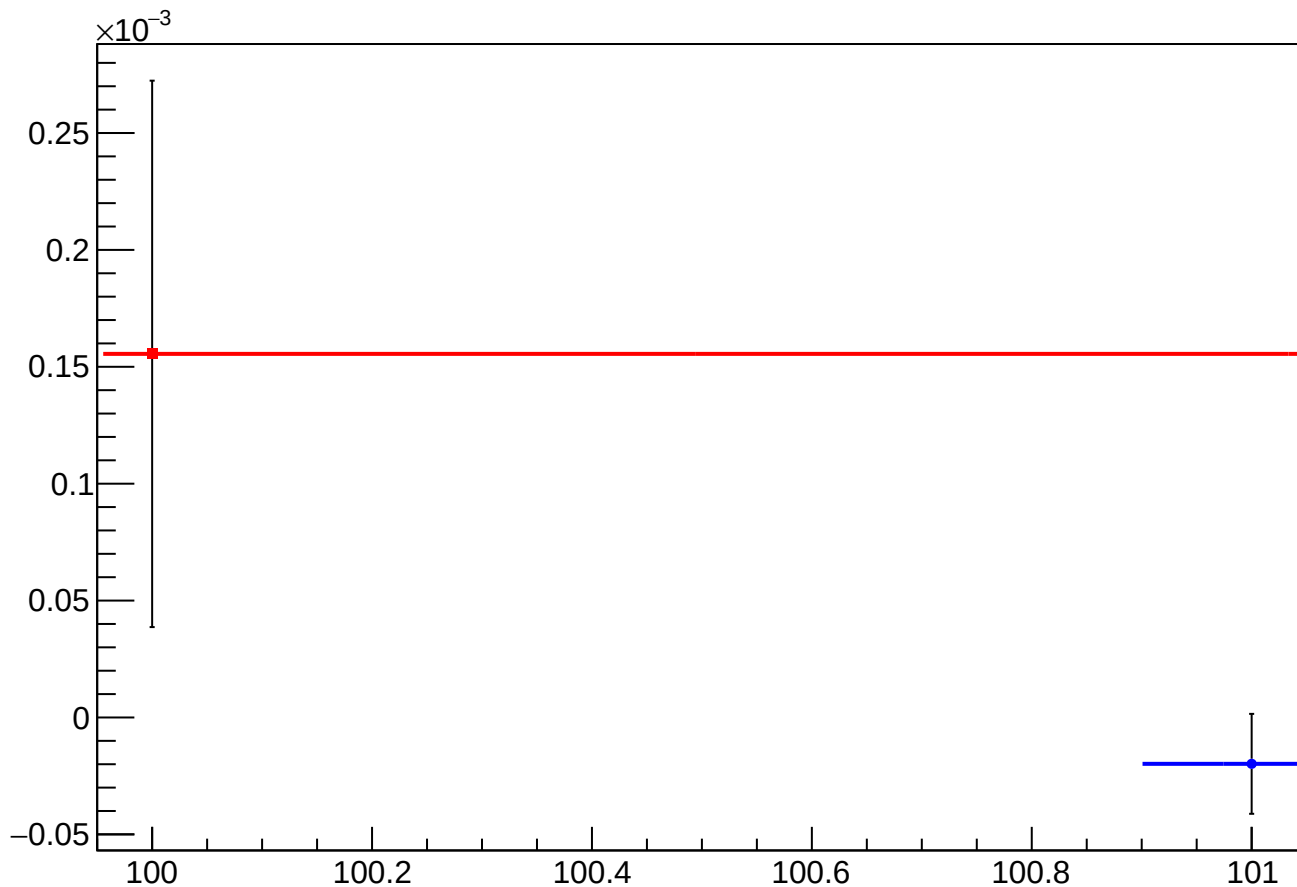
In: 407.571 $\pm$ 0.371  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 418.884 $\pm$ 0.367  $\chi^2$ /NDF: 50979.6/1



asym\_at2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

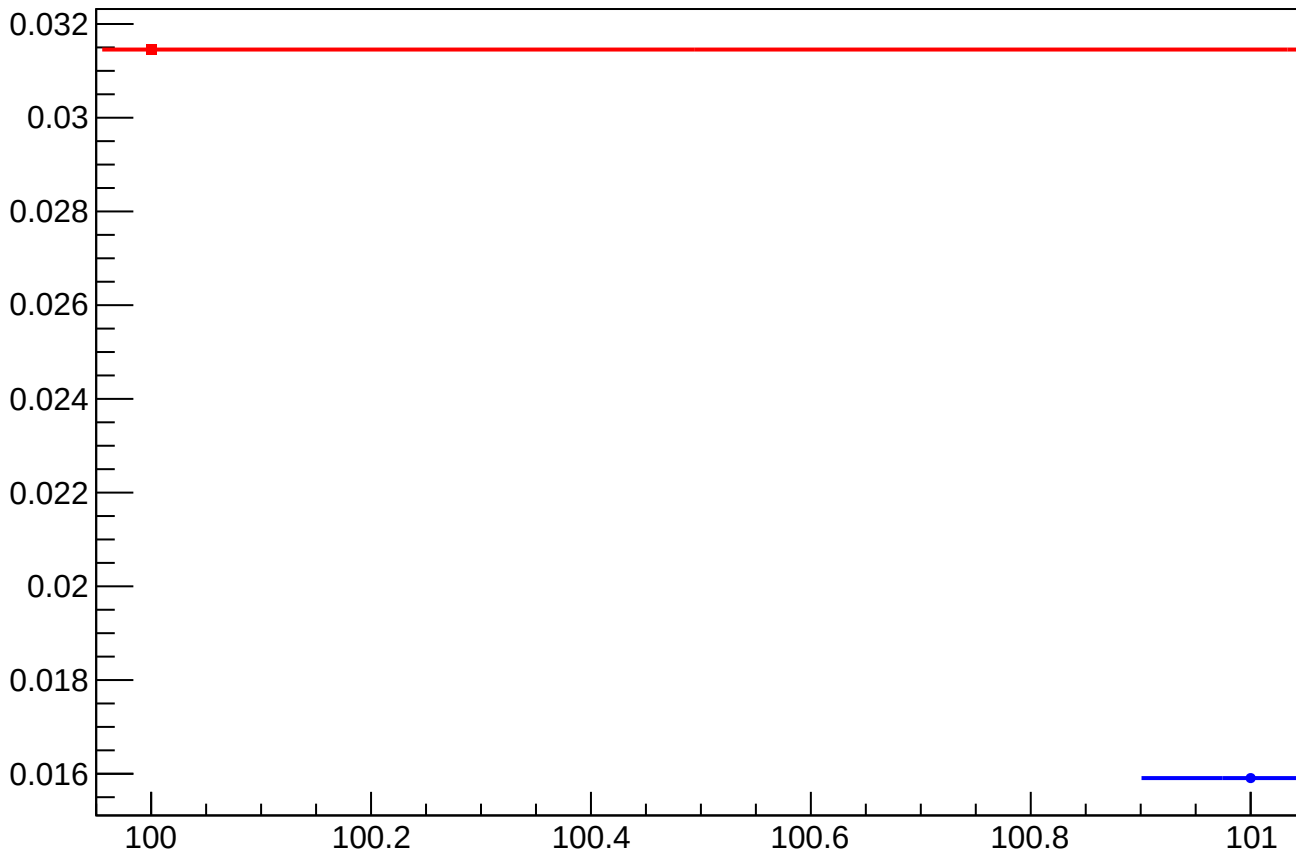
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

asym\_at2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

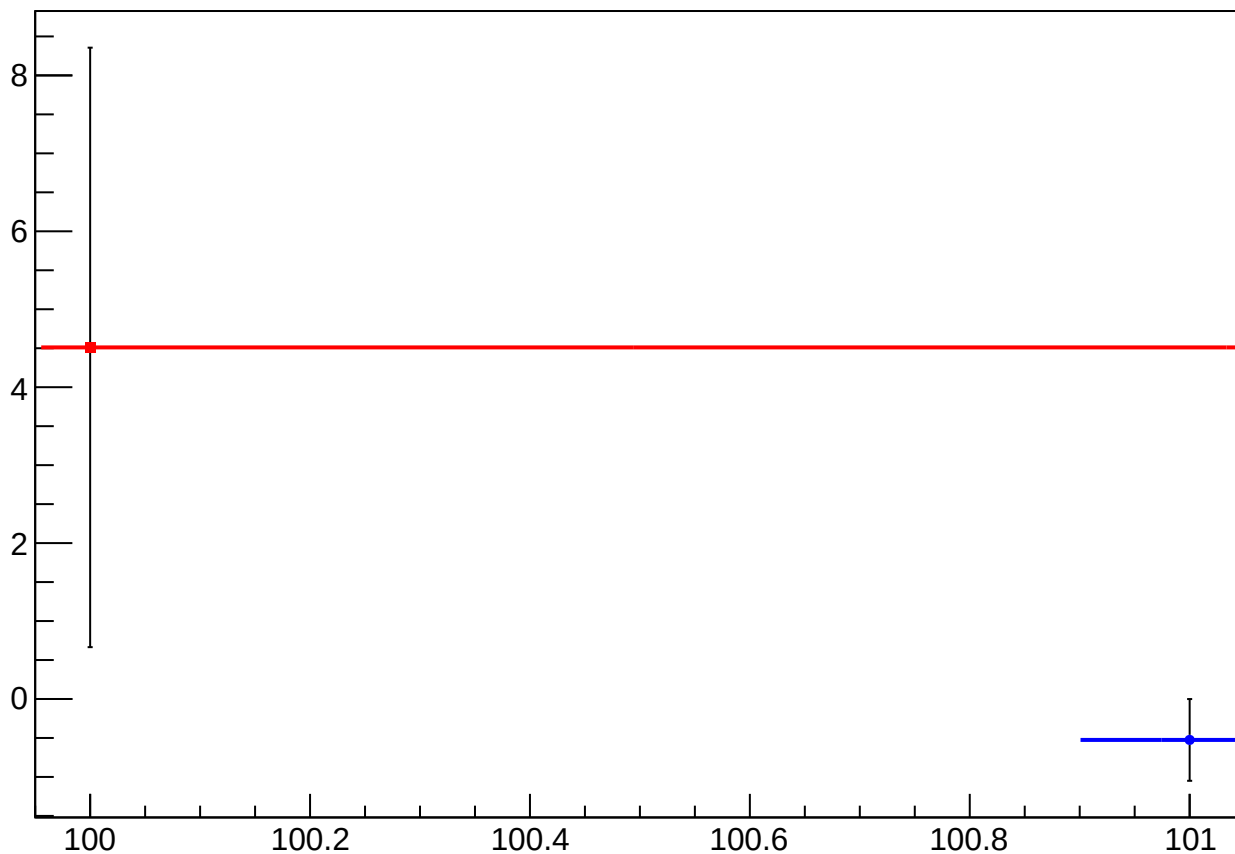
Right: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 34252.6/1

In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 34252.6/1

asym\_at2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.525+/-0.524  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.510+/-3.845  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

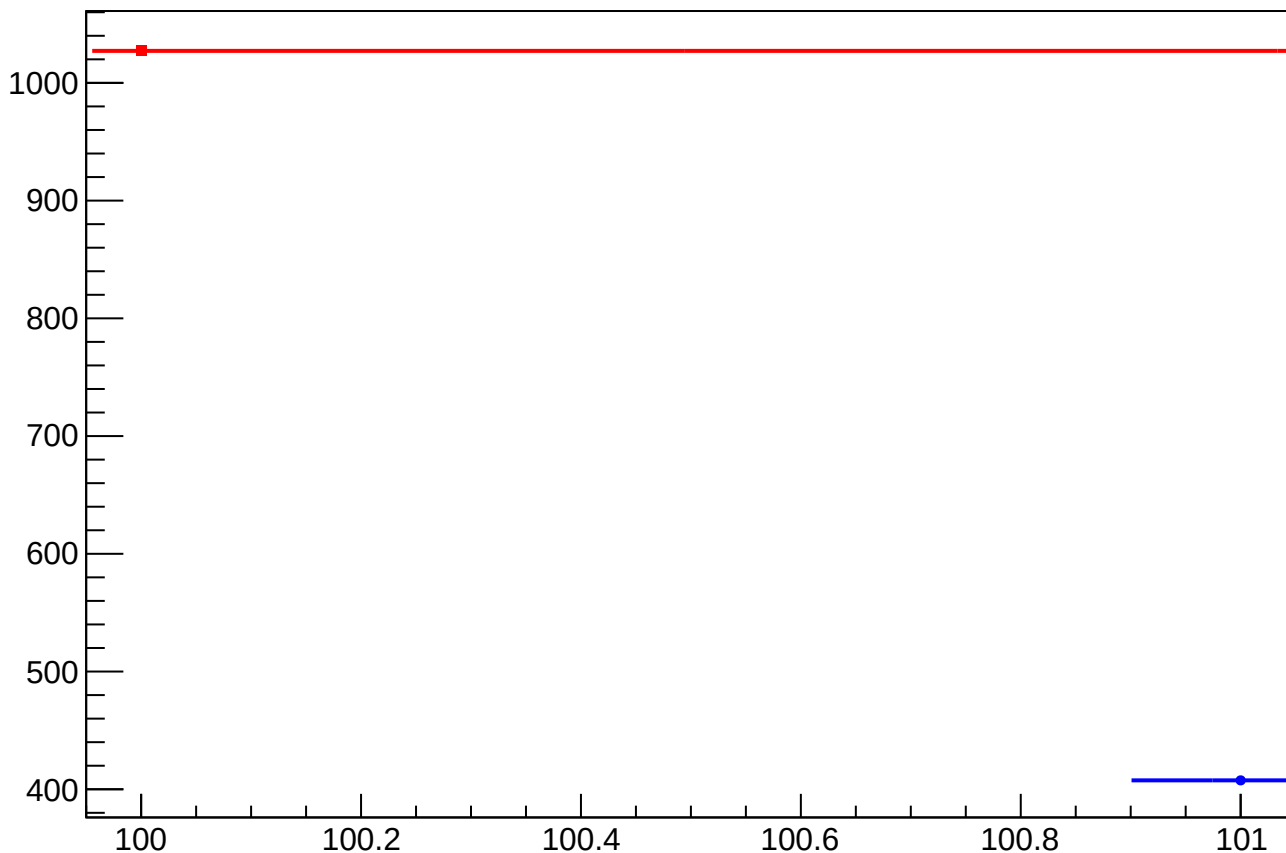
Right: -0.433+/-0.520  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.525+/-0.524  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.433+/-0.520  $\chi^2/\text{NDF}$ : 1.7/1

asym\_at2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 407.566 $\pm$ 0.371  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1027.187 $\pm$ 2.719  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

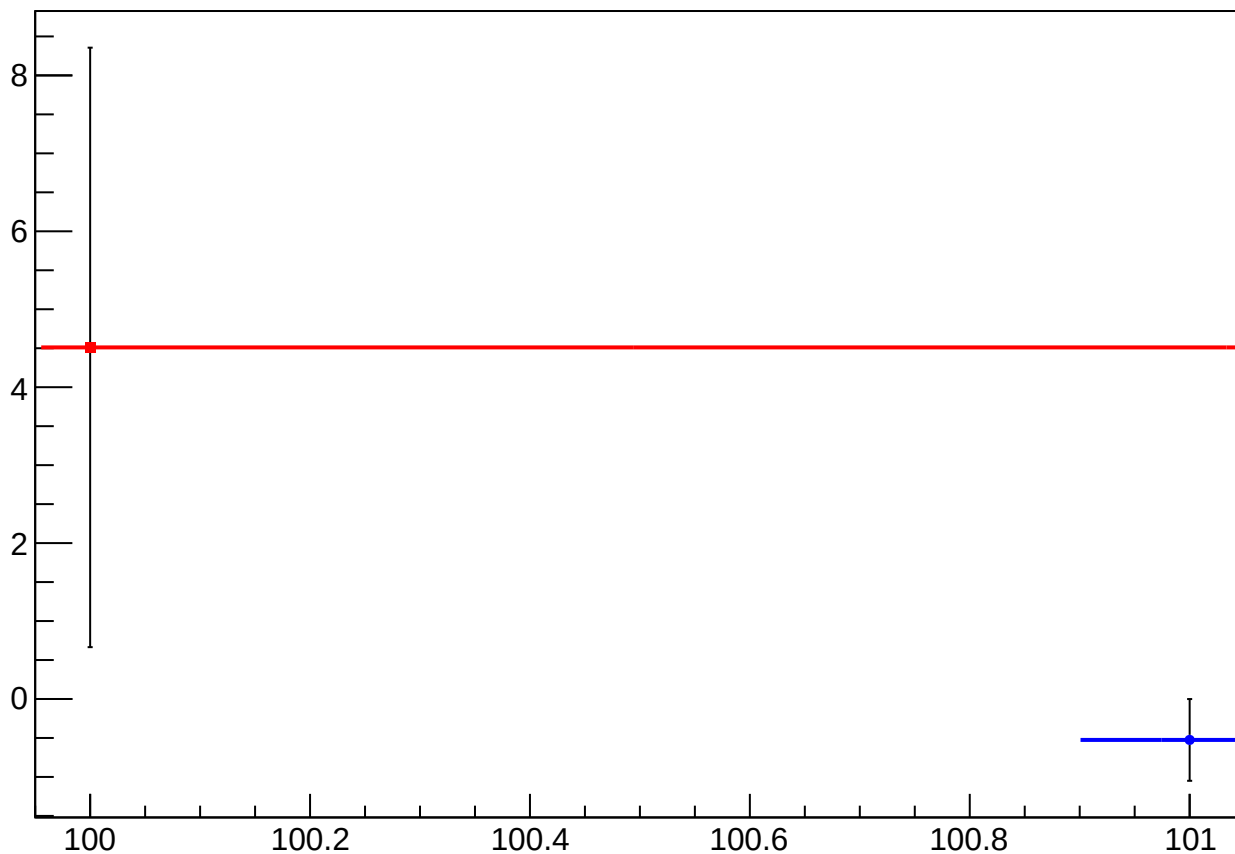
Right: 418.879 $\pm$ 0.367  $\chi^2$ /NDF: 50980.5/1

In: 407.566 $\pm$ 0.371  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 418.879 $\pm$ 0.367  $\chi^2$ /NDF: 50980.5/1

asym\_at2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.525+/-0.524  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.510+/-3.845  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

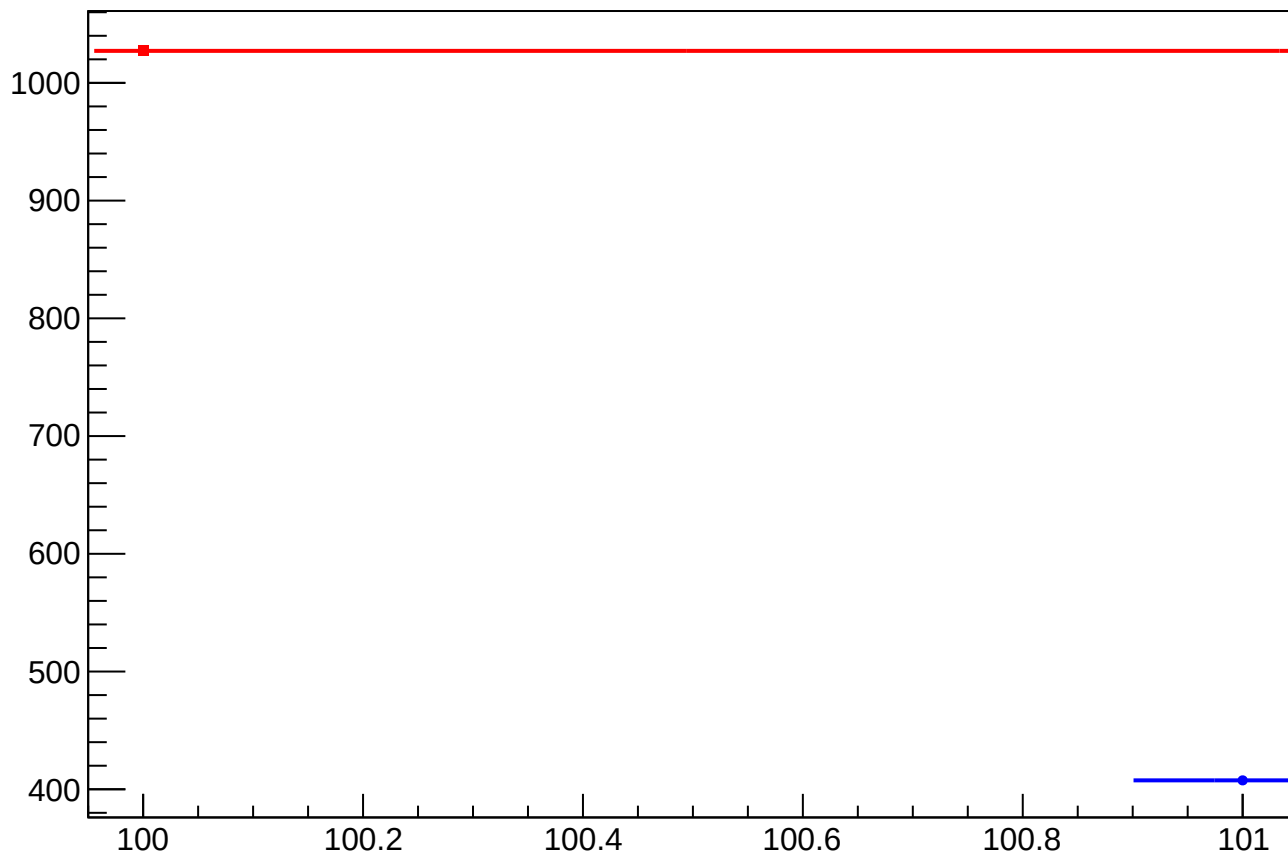
Right: -0.433+/-0.520  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.525+/-0.524  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.433+/-0.520  $\chi^2/\text{NDF}$ : 1.7/1

asym\_at2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 407.566+/-0.371  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1027.187+/-2.719  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

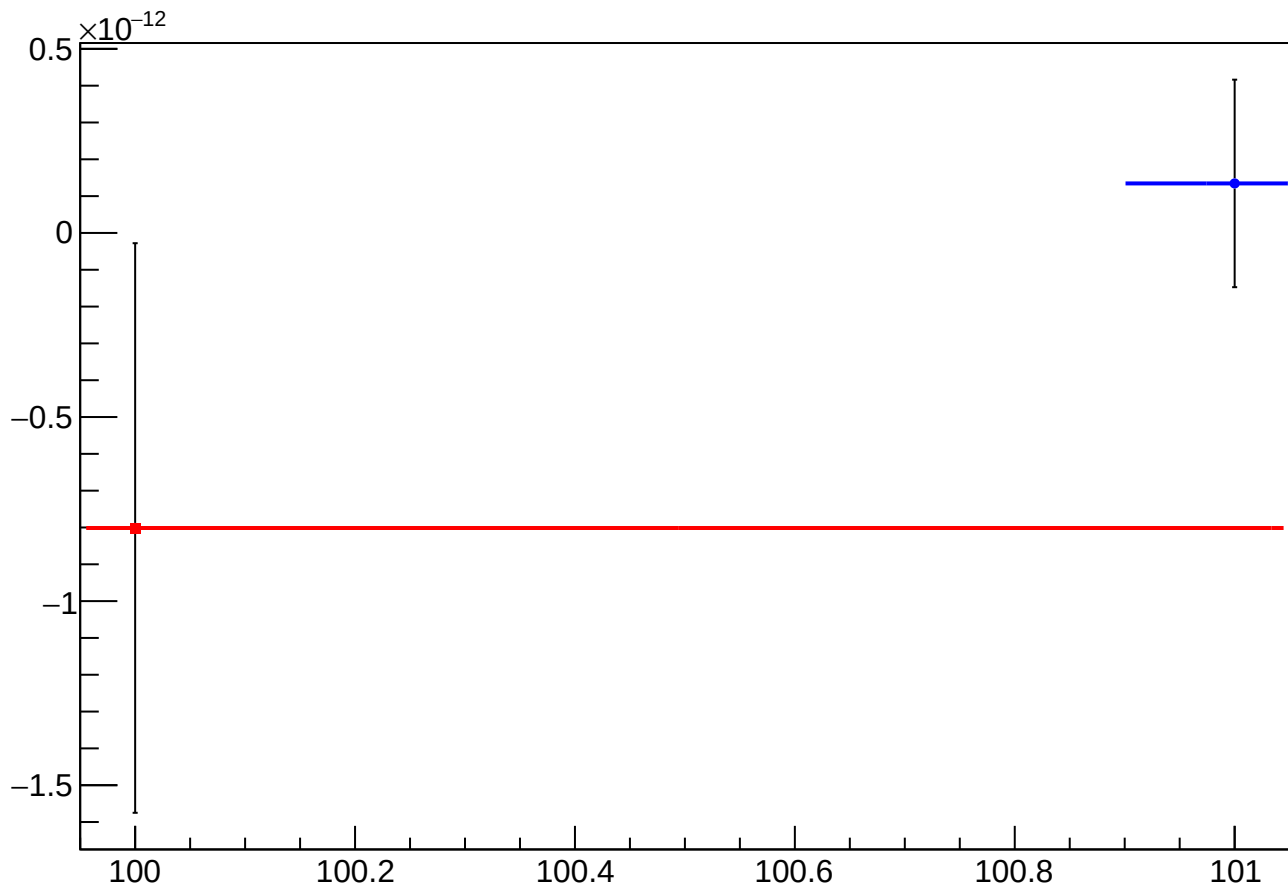
Right: 418.879+/-0.367  $\chi^2/\text{NDF}$ : 50980.5/1

In: 407.566+/-0.371  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 418.879+/-0.367  $\chi^2/\text{NDF}$ : 50980.5/1

asym\_at2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

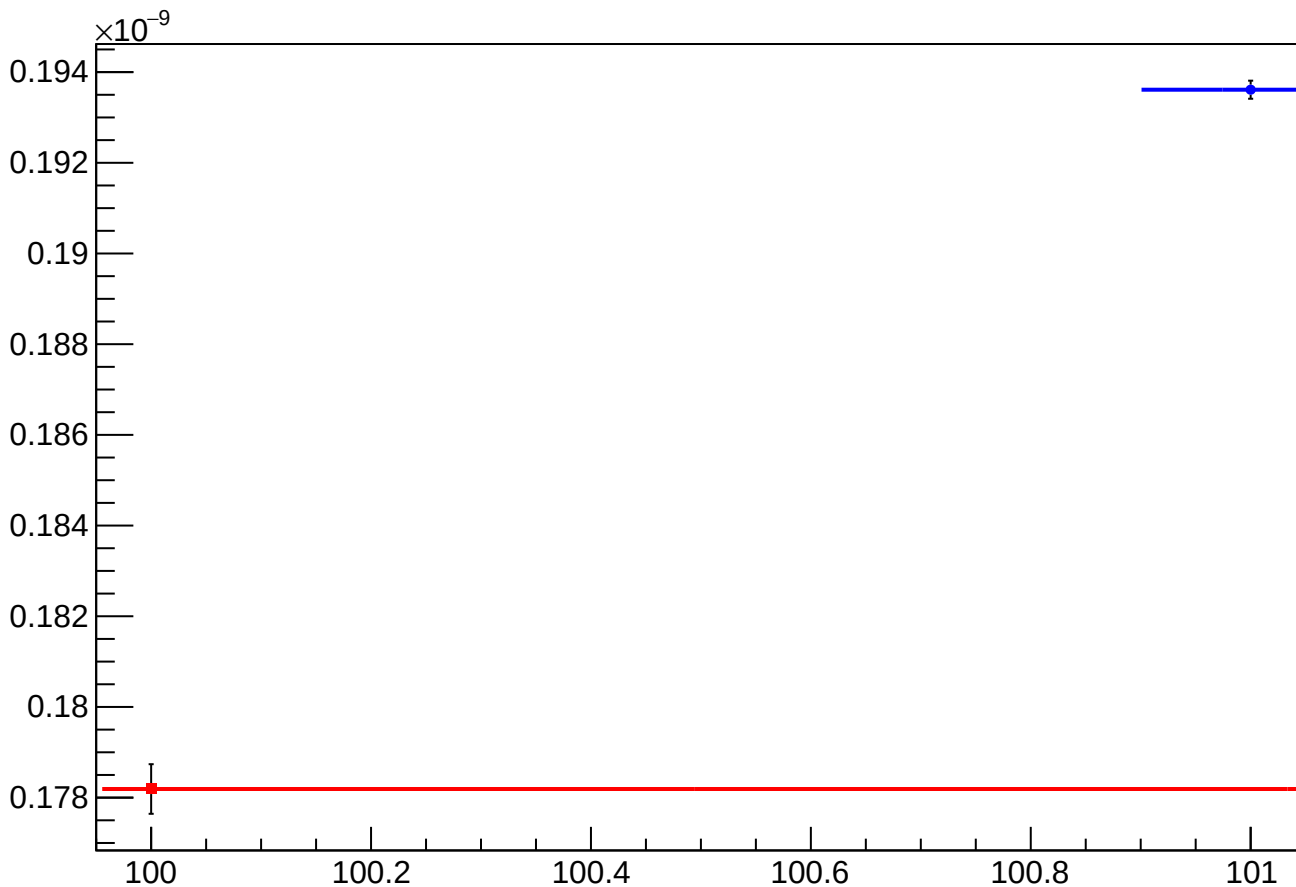
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.3/1

asym\_at2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.000+/-0.000  $\chi^2$ /NDF: 701.7/1

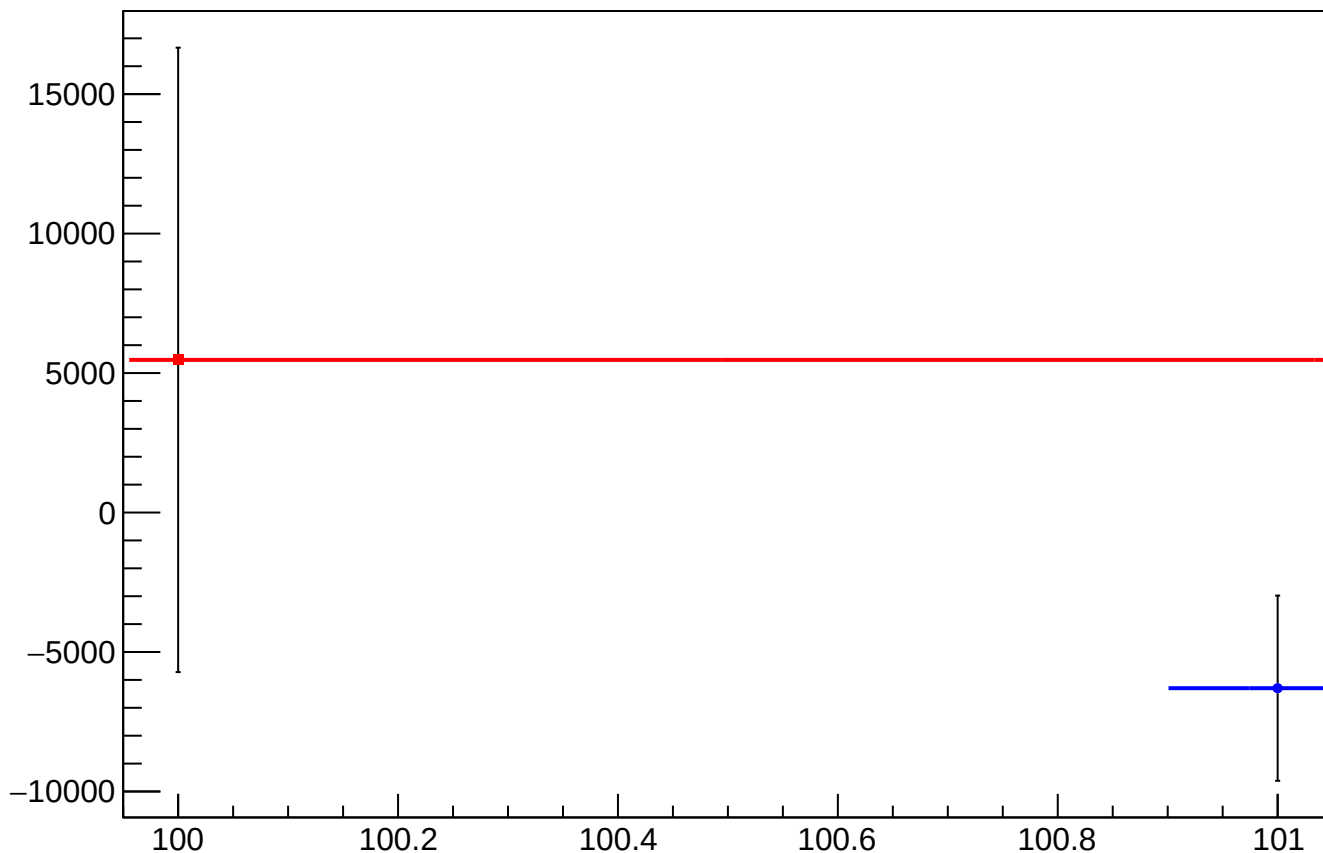
In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 701.7/1



# reg\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: -6297.237+/-3319.775  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5472.698+/-11192.377  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

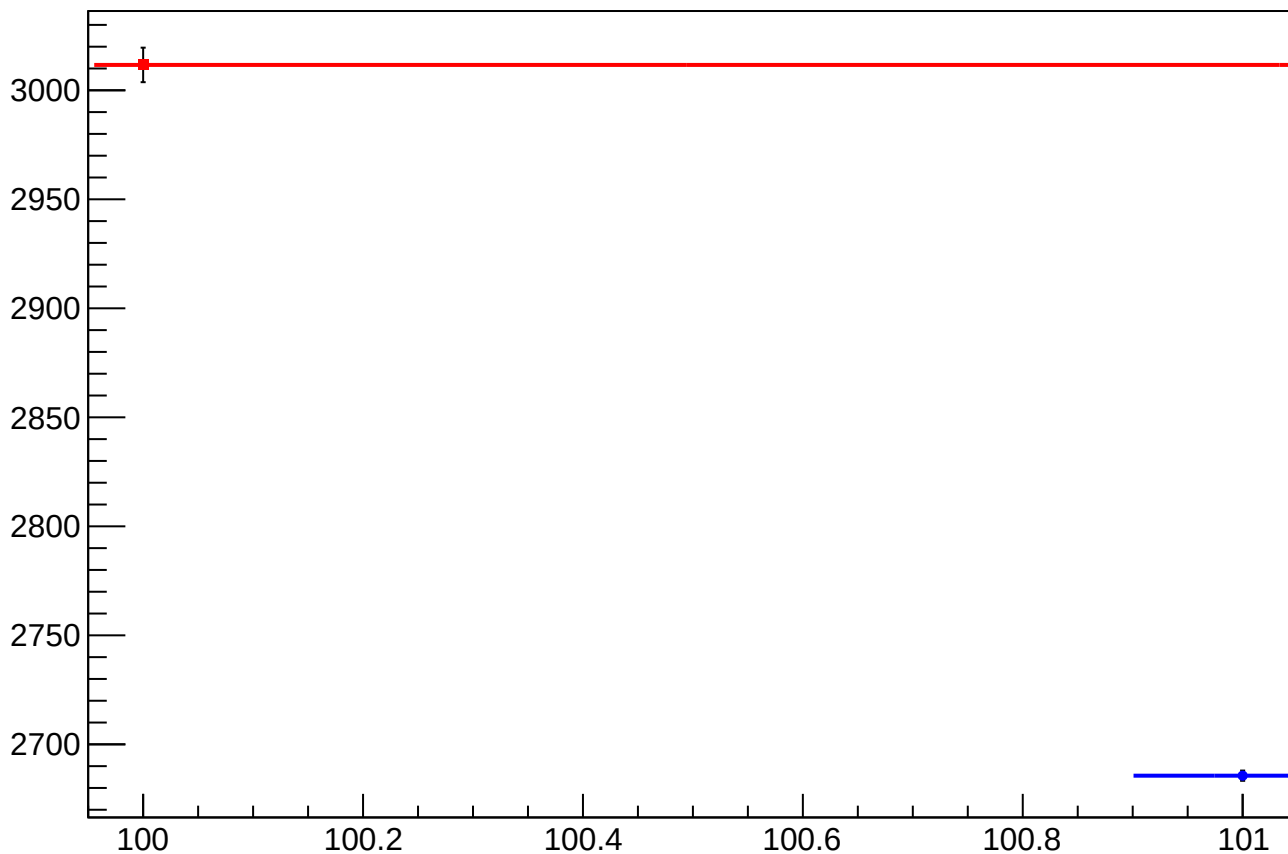
Right: -5345.478+/-3182.722  $\chi^2/\text{NDF}$ : 1.0/1

In: -6297.237+/-3319.775  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5345.478+/-3182.722  $\chi^2/\text{NDF}$ : 1.0/1

# reg\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 2685.629 $\pm$ 2.347  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3011.637 $\pm$ 7.914  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

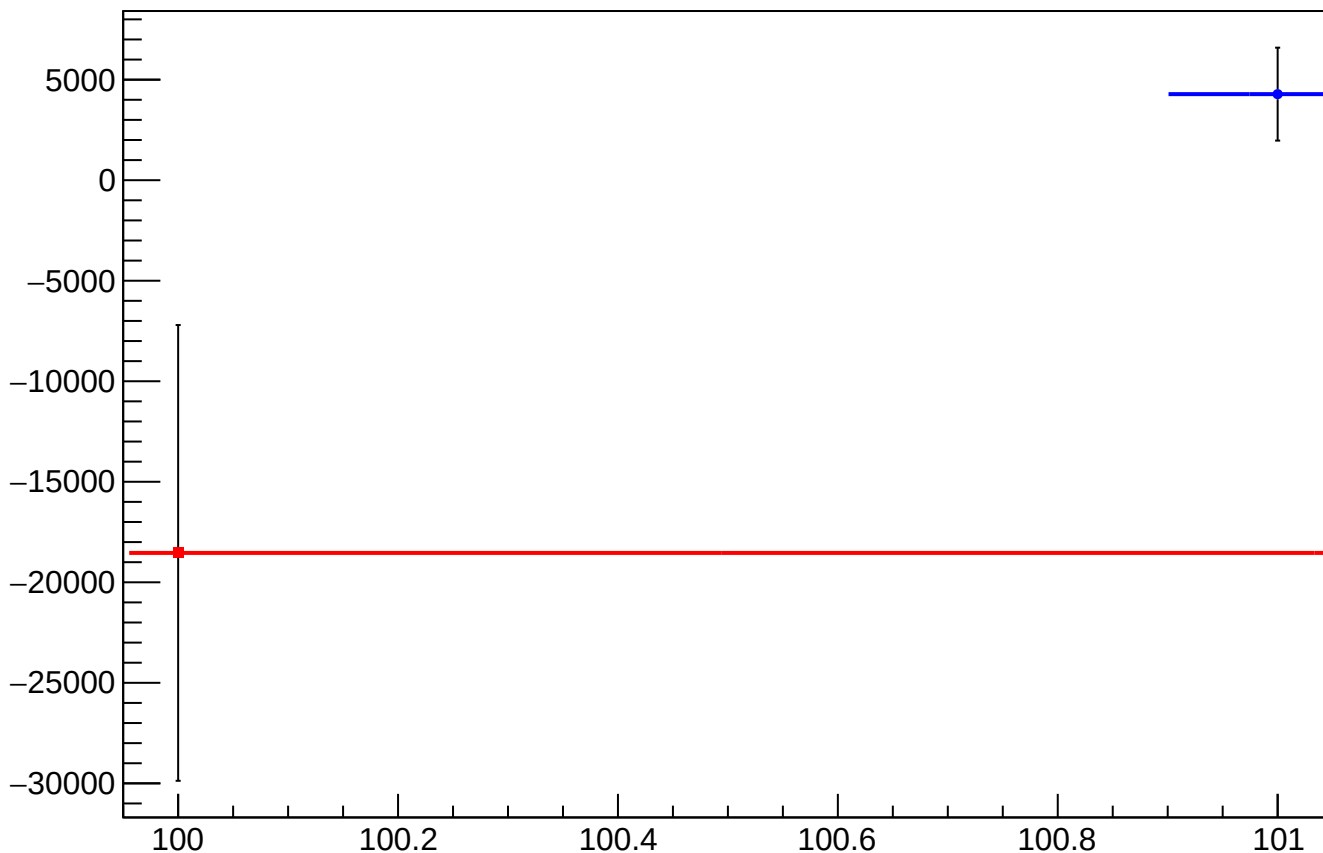
Right: 2711.991 $\pm$ 2.251  $\chi^2$ /NDF: 1559.6/1

In: 2685.629 $\pm$ 2.347  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2711.991 $\pm$ 2.251  $\chi^2$ /NDF: 1559.6/1

asym\_at2\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 4280.693+/-2311.214  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -18538.651+/-11334.564  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

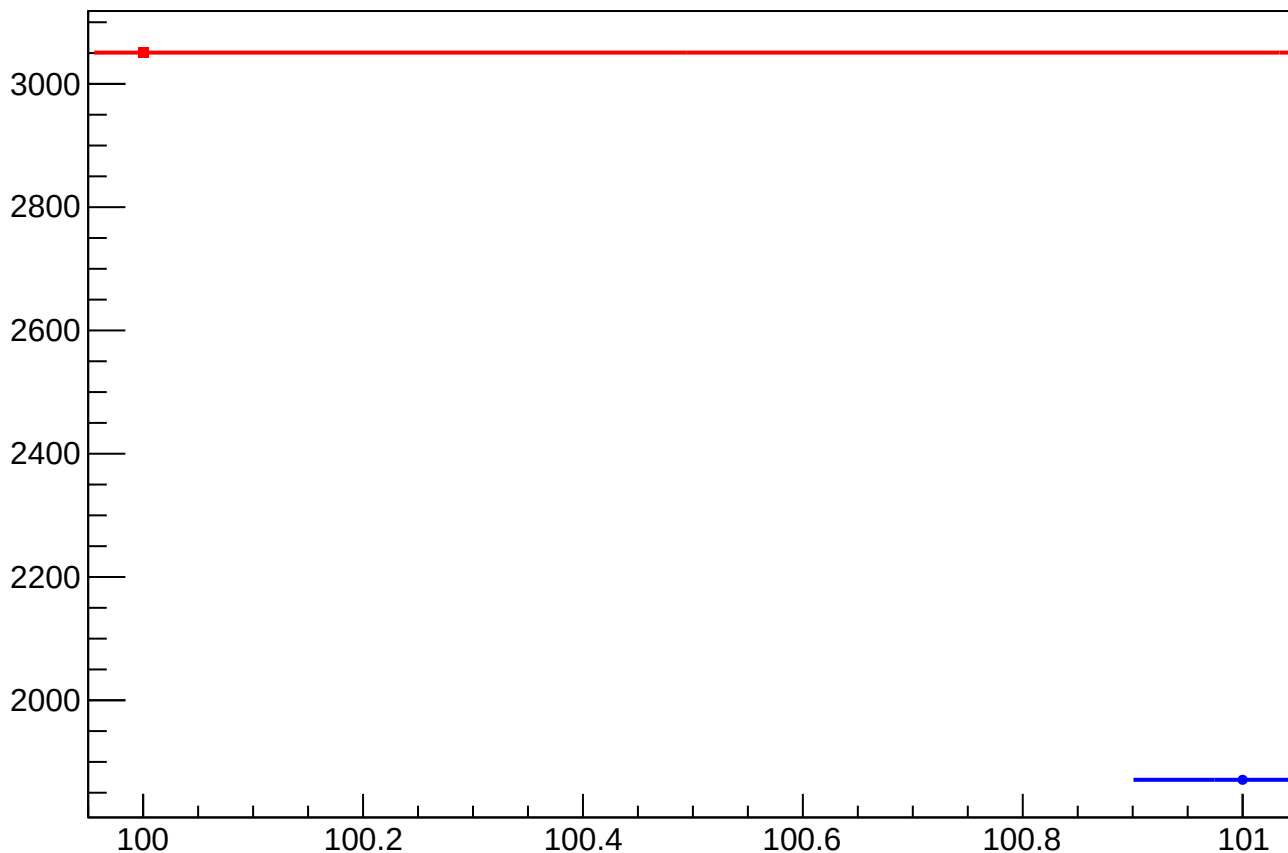
Right: 3369.769+/-2264.614  $\chi^2/\text{NDF}$ : 3.9/1

In: 4280.693+/-2311.214  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 3369.769+/-2264.614  $\chi^2/\text{NDF}$ : 3.9/1

asym\_at2\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1870.987 $\pm$ 1.634  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3050.751 $\pm$ 8.015  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

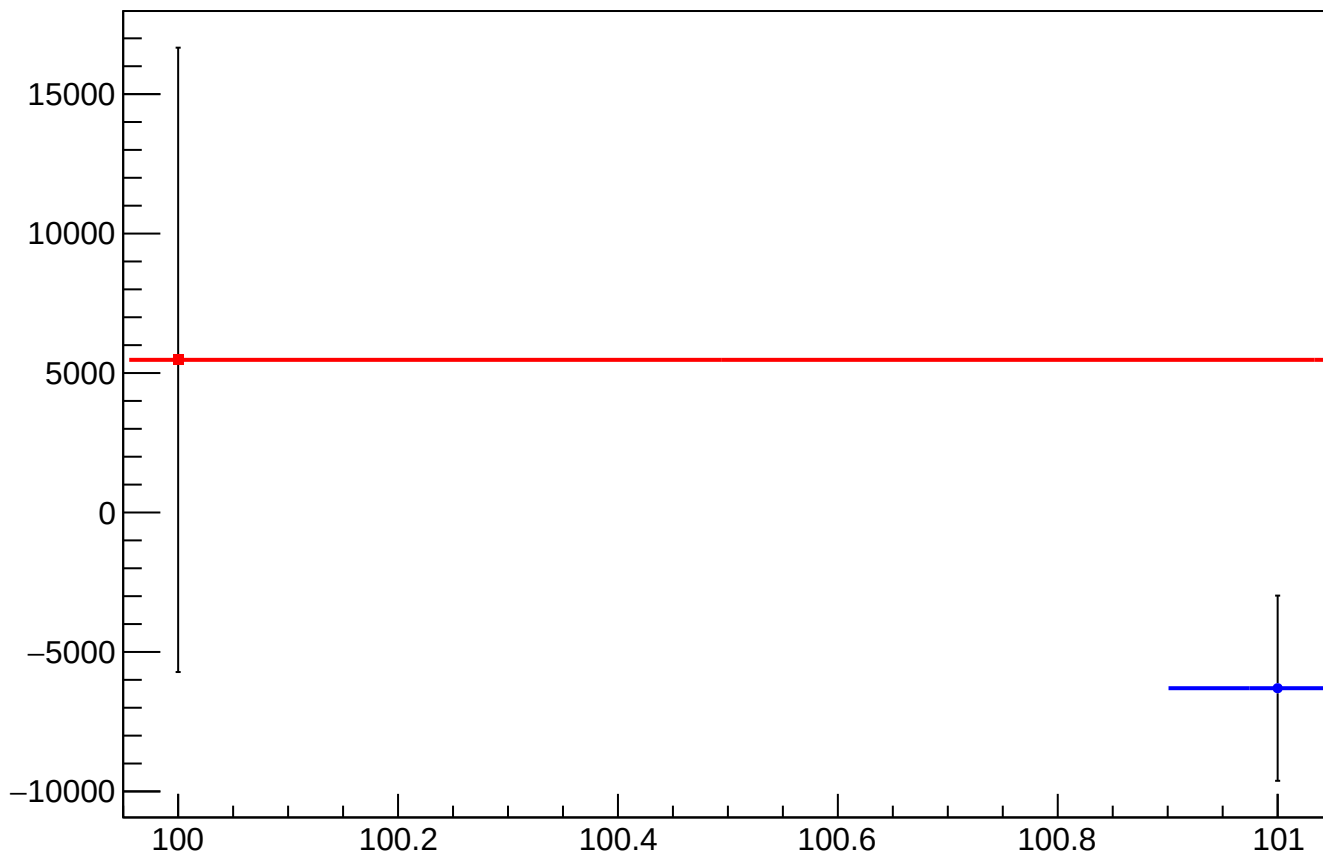
Right: 1918.082 $\pm$ 1.601  $\chi^2$ /NDF: 20802.6/1

In: 1870.987 $\pm$ 1.634  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1918.082 $\pm$ 1.601  $\chi^2$ /NDF: 20802.6/1

# cor\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: -6299.553+/-3319.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5472.745+/-11192.377  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

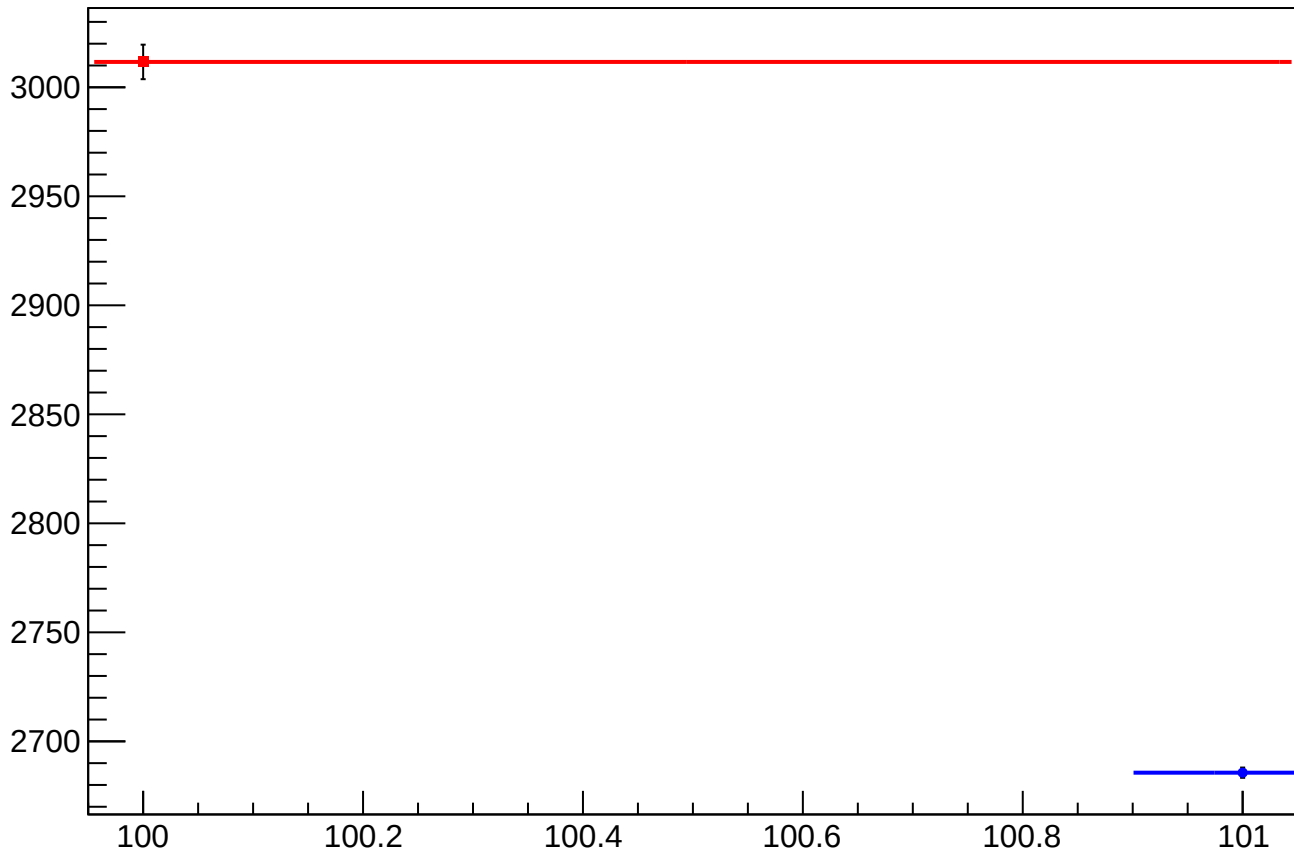
Right: -5347.602+/-3182.724  $\chi^2/\text{NDF}$ : 1.0/1

In: -6299.553+/-3319.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5347.602+/-3182.724  $\chi^2/\text{NDF}$ : 1.0/1

# cor\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 2685.629 $\pm$ 2.347  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3011.637 $\pm$ 7.914  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

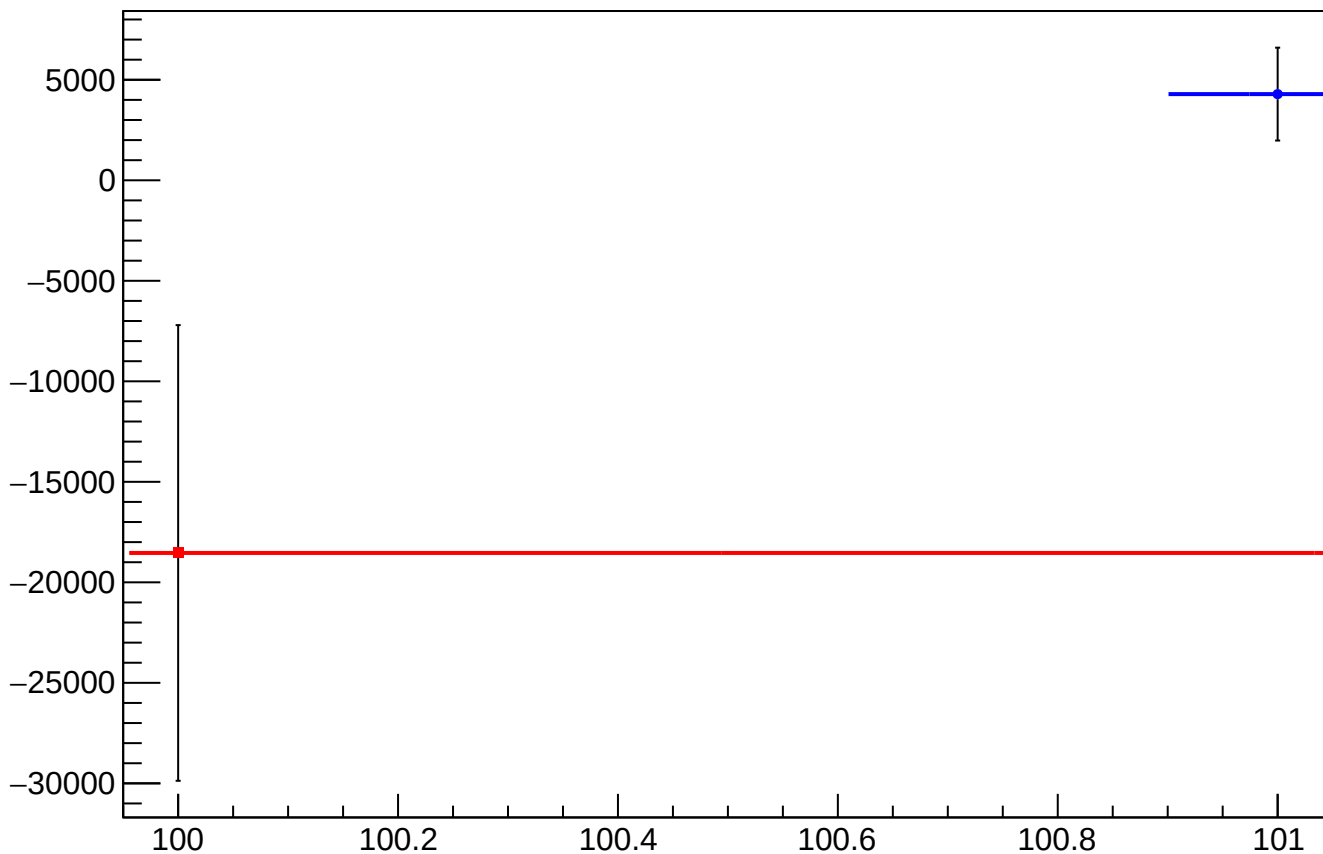
Right: 2711.991 $\pm$ 2.251  $\chi^2$ /NDF: 1559.6/1

In: 2685.629 $\pm$ 2.347  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2711.991 $\pm$ 2.251  $\chi^2$ /NDF: 1559.6/1

asym\_at2\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 4287.535 $\pm$ 2310.081  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18538.625 $\pm$ 11334.553  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

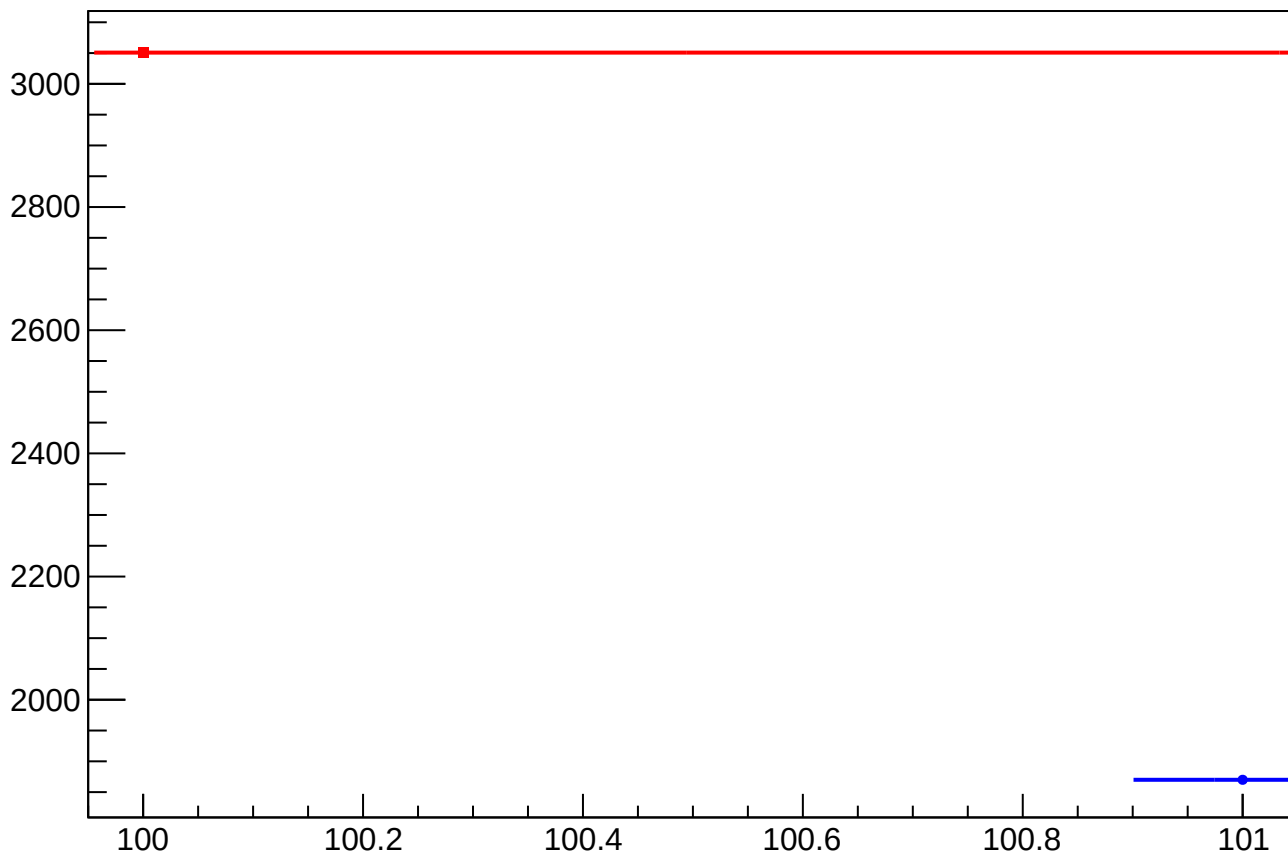
Right: 3377.195 $\pm$ 2263.548  $\chi^2/\text{NDF}$ : 3.9/1

In: 4287.535 $\pm$ 2310.081  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3377.195 $\pm$ 2263.548  $\chi^2/\text{NDF}$ : 3.9/1

asym\_at2\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1870.018 $\pm$ 1.633  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3050.748 $\pm$ 8.015  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1917.107 $\pm$ 1.601  $\chi^2$ /NDF: 20837.6/1

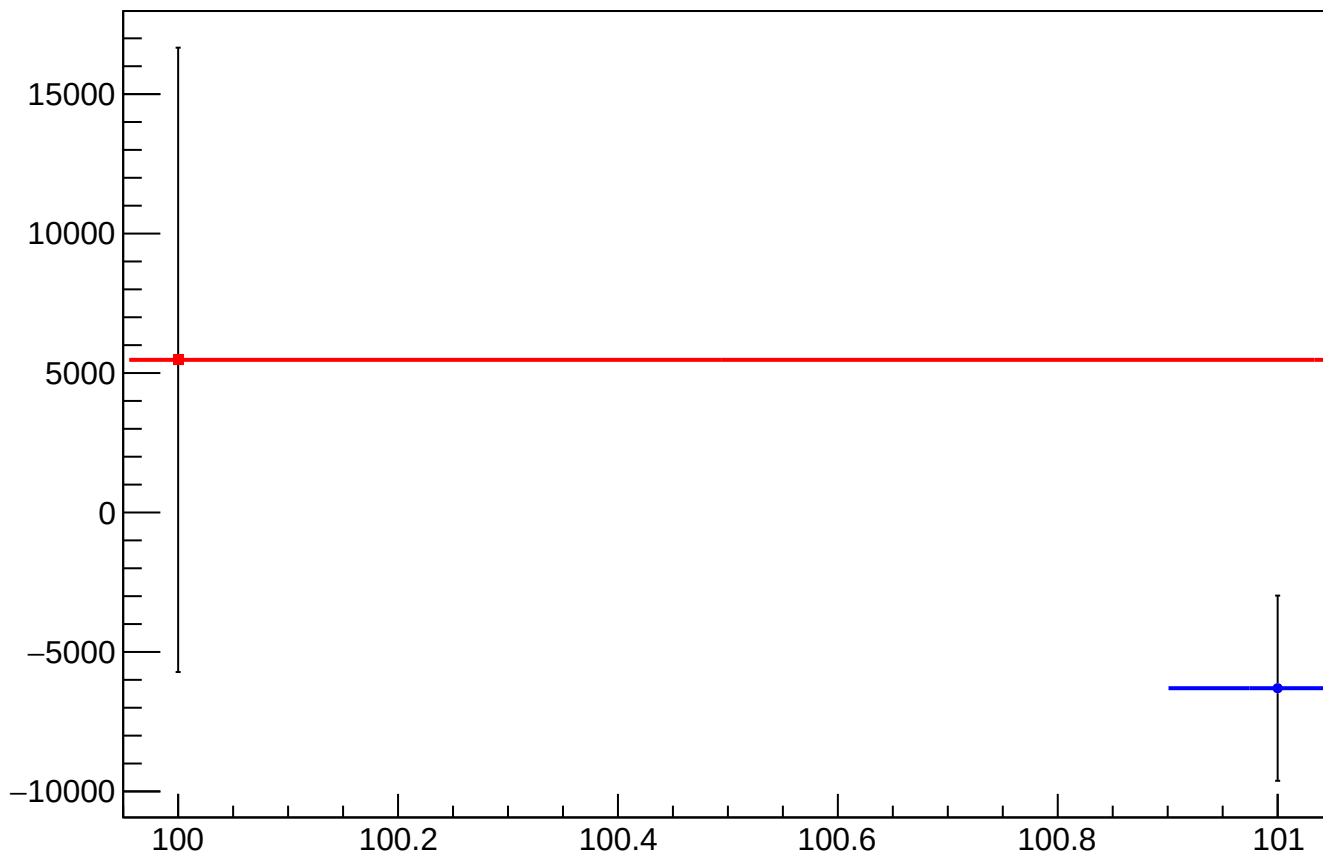
In: 1870.018 $\pm$ 1.633  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1917.107 $\pm$ 1.601  $\chi^2$ /NDF: 20837.6/1



eigen\_cor\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: -6299.553+/-3319.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5472.745+/-11192.377  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

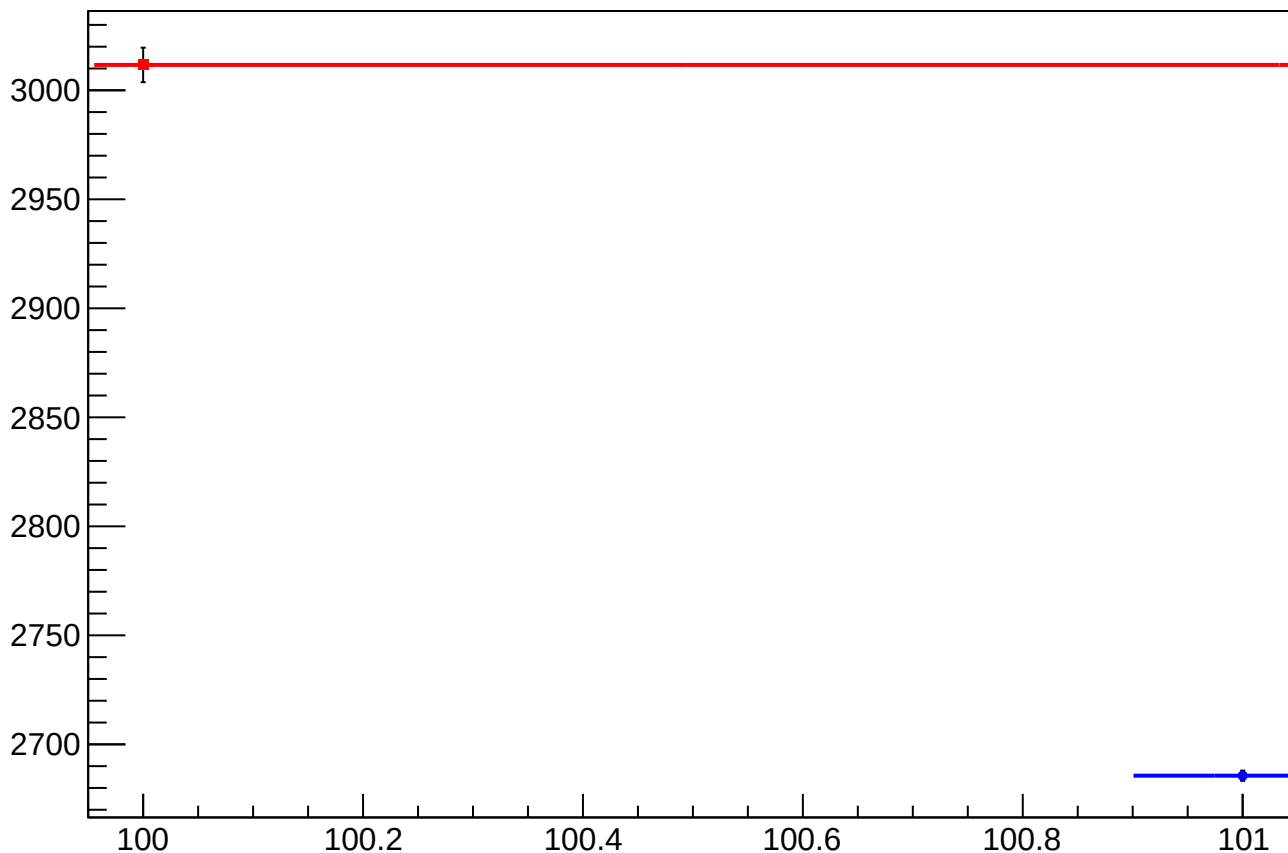
Right: -5347.602+/-3182.724  $\chi^2/\text{NDF}$ : 1.0/1

In: -6299.553+/-3319.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5347.602+/-3182.724  $\chi^2/\text{NDF}$ : 1.0/1

eigen\_cor\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 2685.629+/-2.347  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3011.637+/-7.914  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

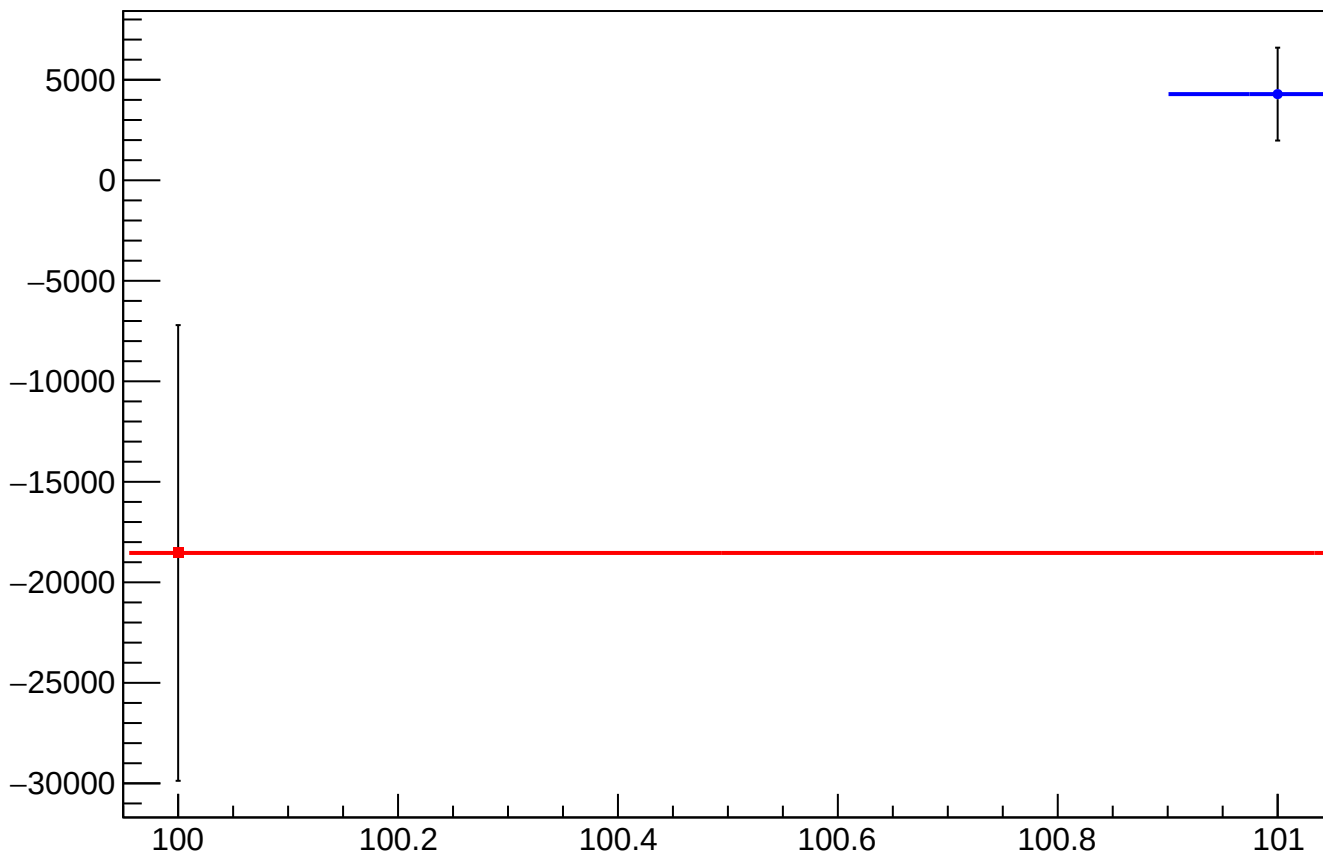
Right: 2711.991+/-2.251  $\chi^2/\text{NDF}$ : 1559.6/1

In: 2685.629+/-2.347  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2711.991+/-2.251  $\chi^2/\text{NDF}$ : 1559.6/1

asym\_at2\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 4287.535+/-2310.081  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18538.625+/-11334.553  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

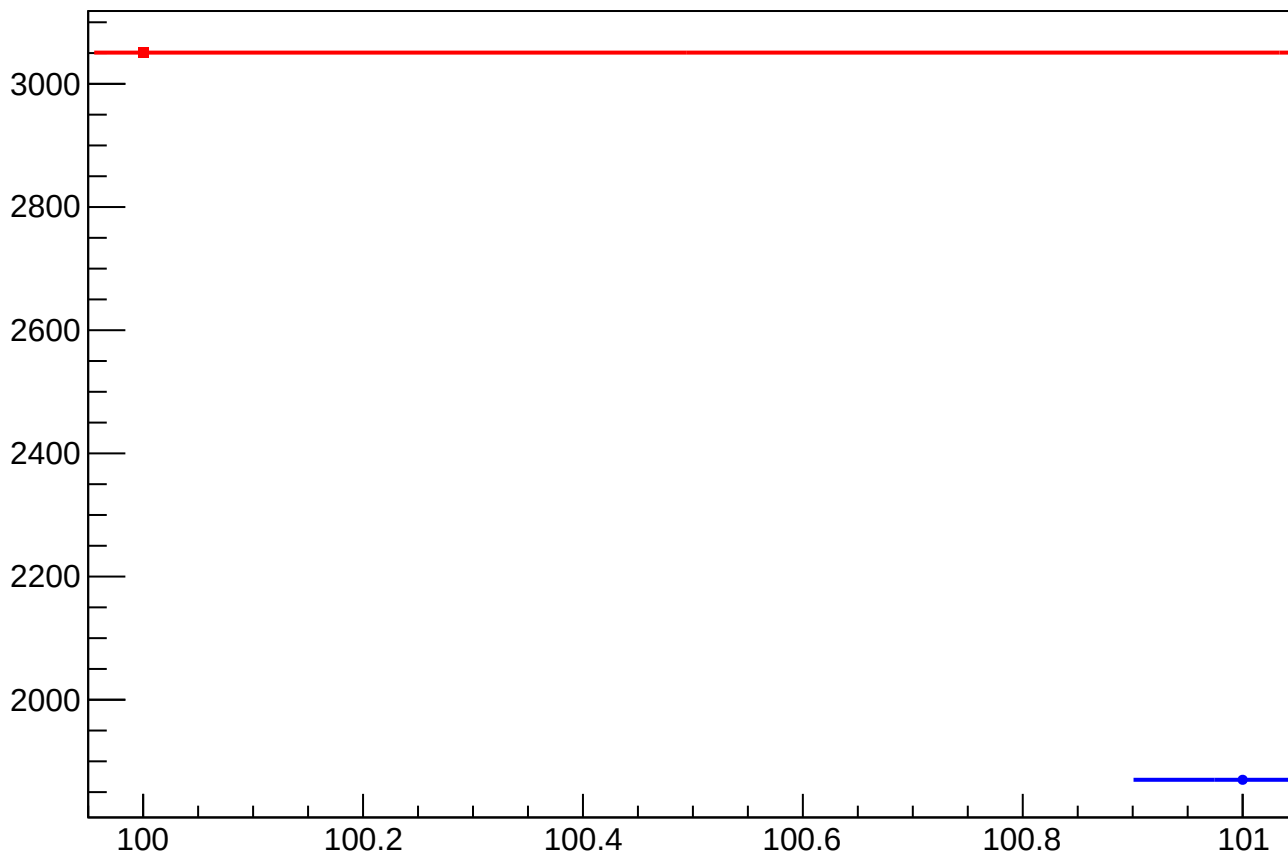
Right: 3377.195+/-2263.548  $\chi^2/\text{NDF}$ : 3.9/1

In: 4287.535+/-2310.081  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3377.195+/-2263.548  $\chi^2/\text{NDF}$ : 3.9/1

asym\_at2\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1870.018 $\pm$ 1.633  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3050.748 $\pm$ 8.015  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

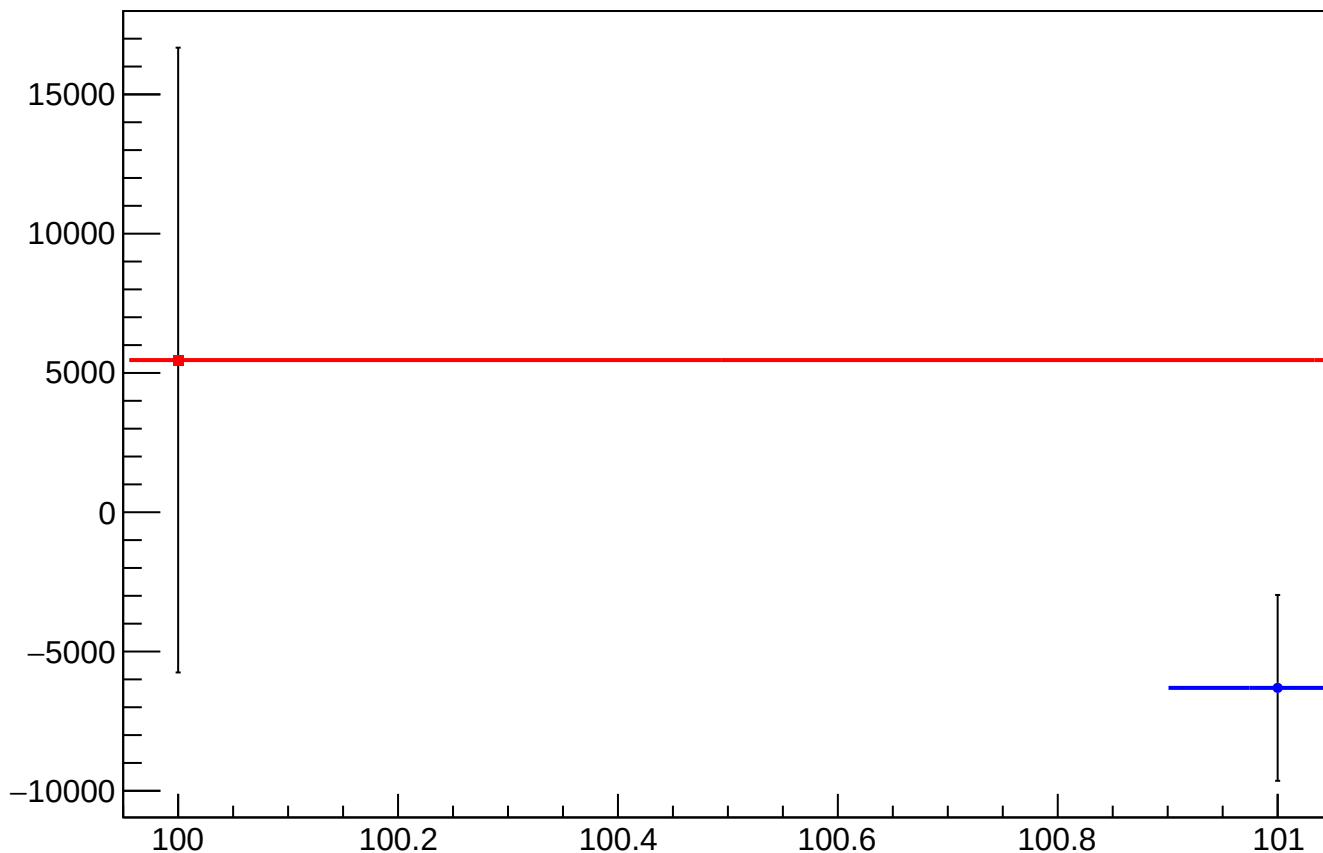
Right: 1917.107 $\pm$ 1.601  $\chi^2$ /NDF: 20837.6/1

In: 1870.018 $\pm$ 1.633  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1917.107 $\pm$ 1.601  $\chi^2$ /NDF: 20837.6/1

# dit\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: -6305.225+/-3335.430  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5462.806+/-11214.363  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

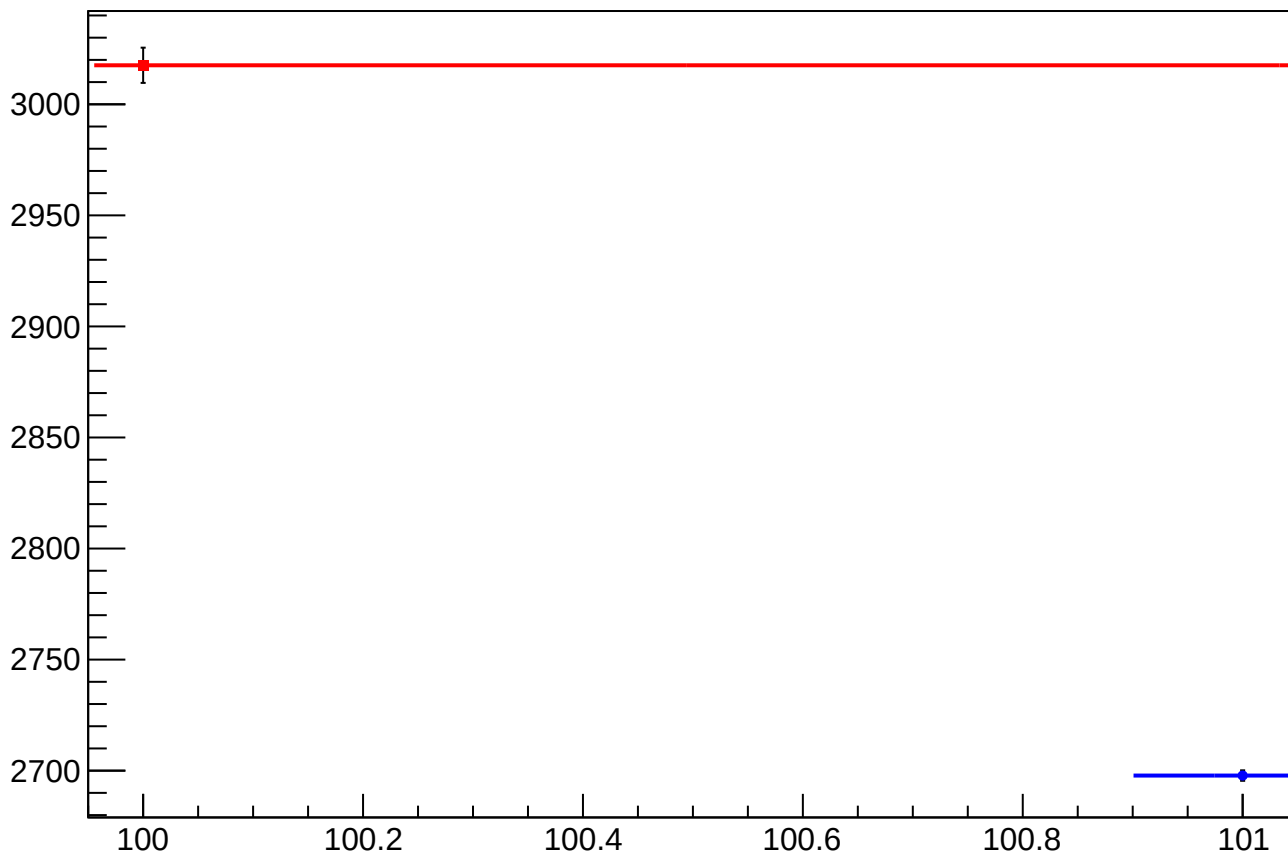
Right: -5348.813+/-3197.020  $\chi^2/\text{NDF}$ : 1.0/1

In: -6305.225+/-3335.430  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5348.813+/-3197.020  $\chi^2/\text{NDF}$ : 1.0/1

# dit\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 2697.794 $\pm$ 2.359  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3017.570 $\pm$ 7.930  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

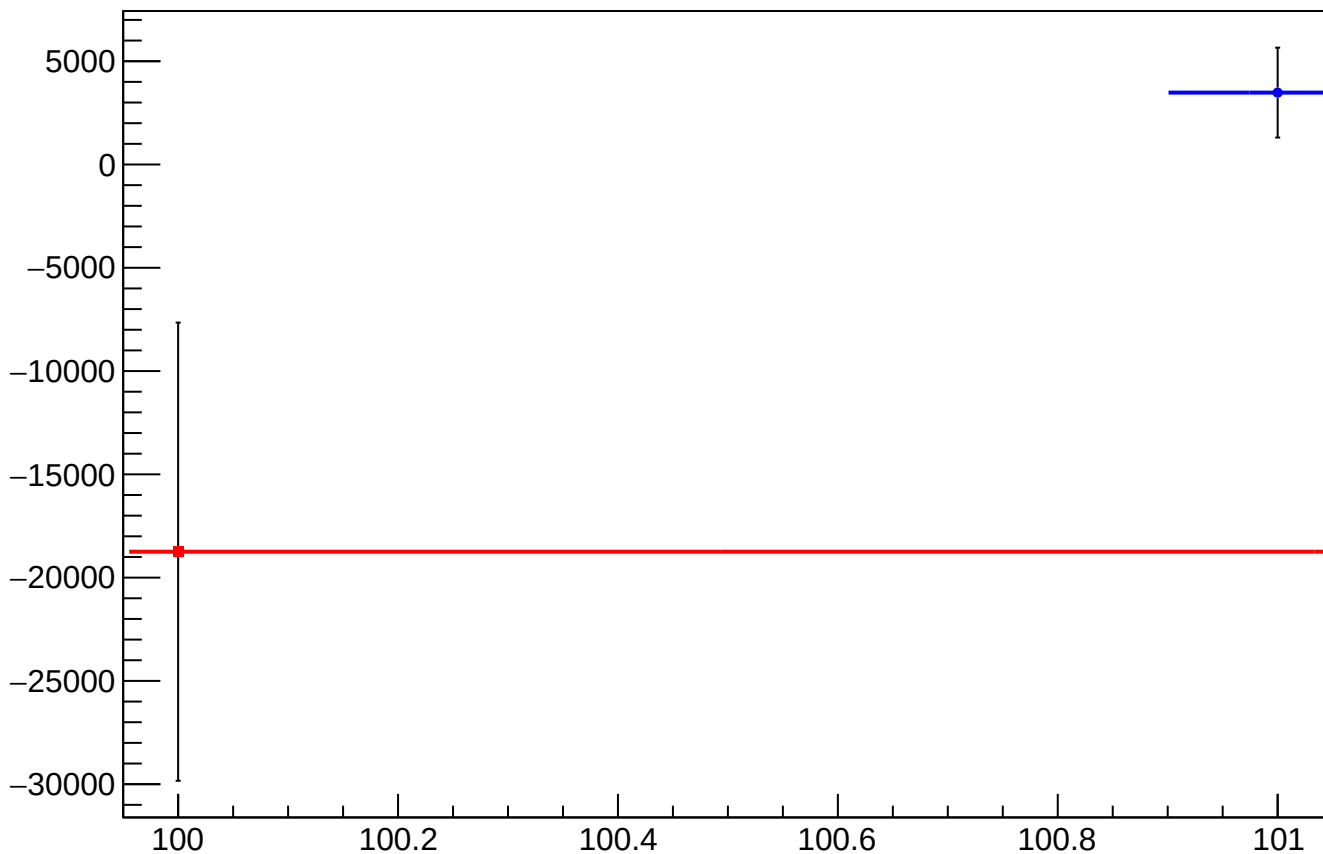
Right: 2723.783 $\pm$ 2.261  $\chi^2/\text{NDF}$ : 1494.0/1

In: 2697.794 $\pm$ 2.359  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2723.783 $\pm$ 2.261  $\chi^2/\text{NDF}$ : 1494.0/1

asym\_at2\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 3480.190+/-2175.634  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18744.771+/-11091.095  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

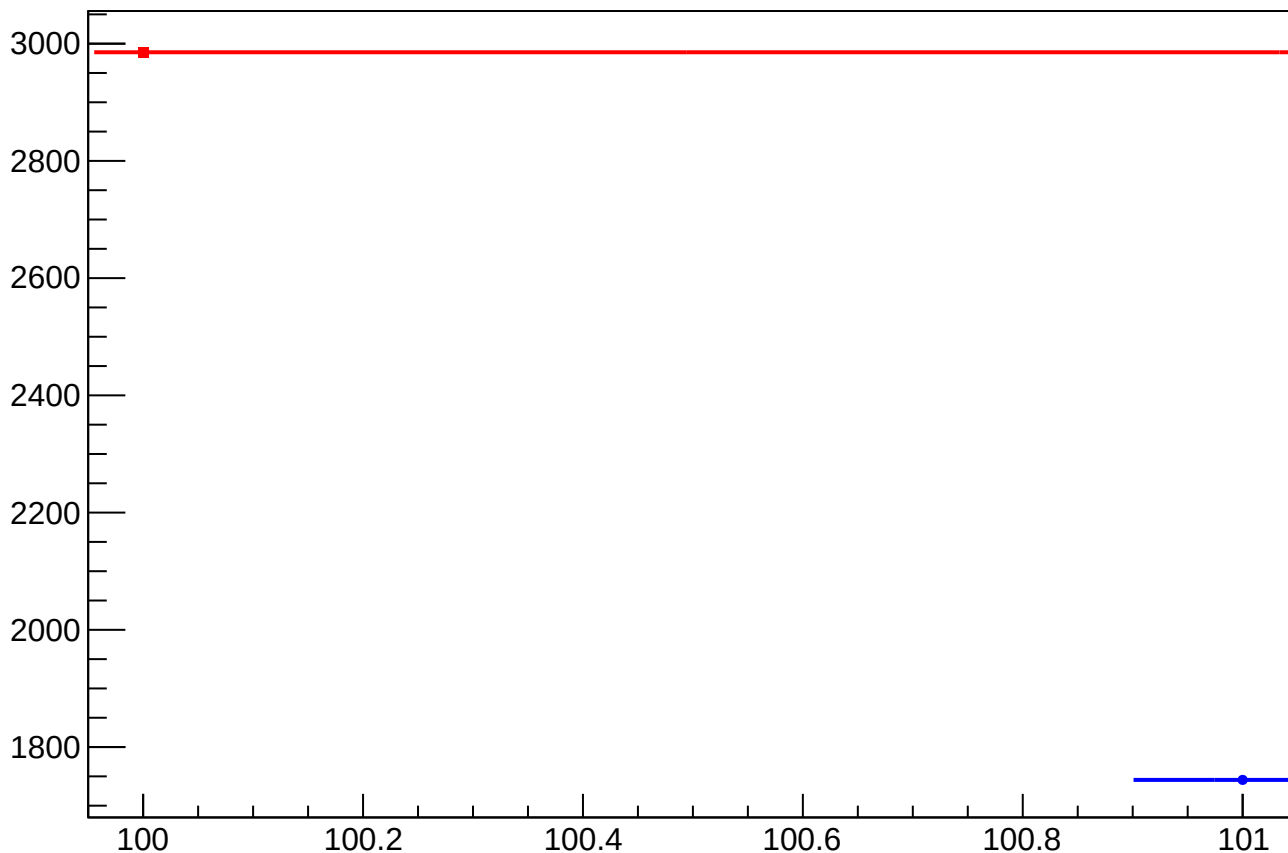
Right: 2656.685+/-2134.947  $\chi^2/\text{NDF}$ : 3.9/1

In: 3480.190+/-2175.634  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2656.685+/-2134.947  $\chi^2/\text{NDF}$ : 3.9/1

asym\_at2\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1743.980 $\pm$ 1.538  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2985.328 $\pm$ 7.843  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1789.976 $\pm$ 1.510  $\chi^2/\text{NDF}$ : 24125.2/1

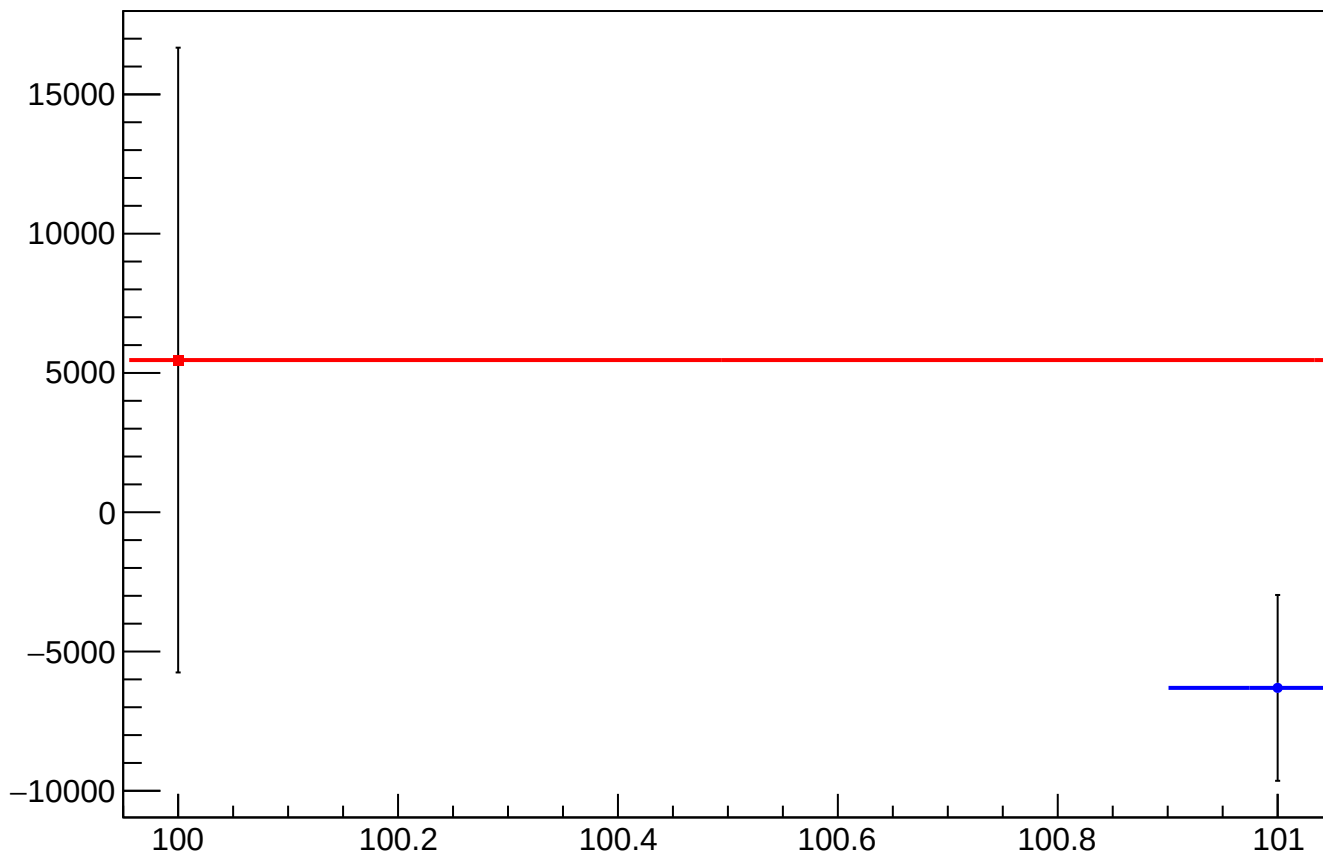
In: 1743.980 $\pm$ 1.538  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1789.976 $\pm$ 1.510  $\chi^2/\text{NDF}$ : 24125.2/1



eigen\_dit\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: -6305.264+/-3335.430  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5462.983+/-11214.364  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

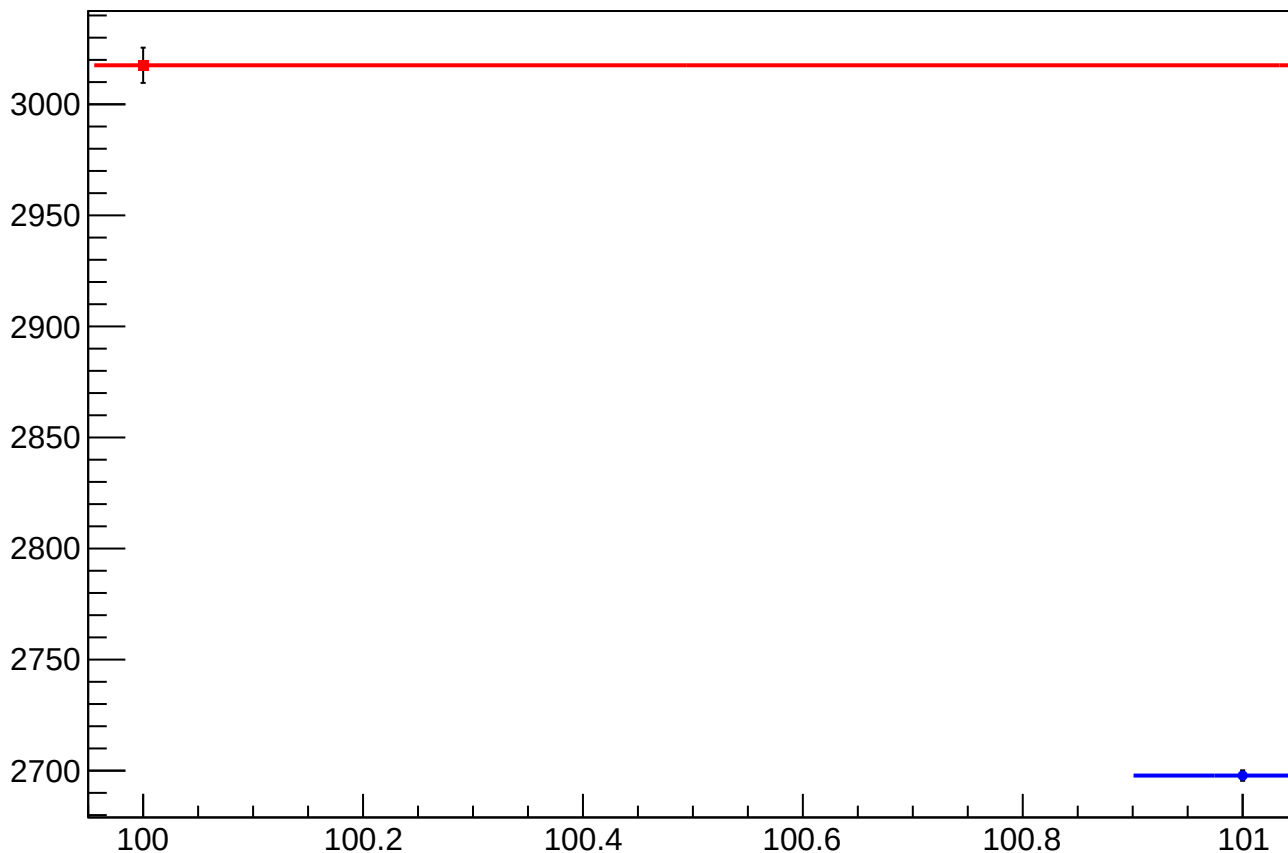
Right: -5348.834+/-3197.020  $\chi^2/\text{NDF}$ : 1.0/1

In: -6305.264+/-3335.430  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5348.834+/-3197.020  $\chi^2/\text{NDF}$ : 1.0/1

# eigen\_dit\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 2697.794 $\pm$ 2.359  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3017.570 $\pm$ 7.930  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

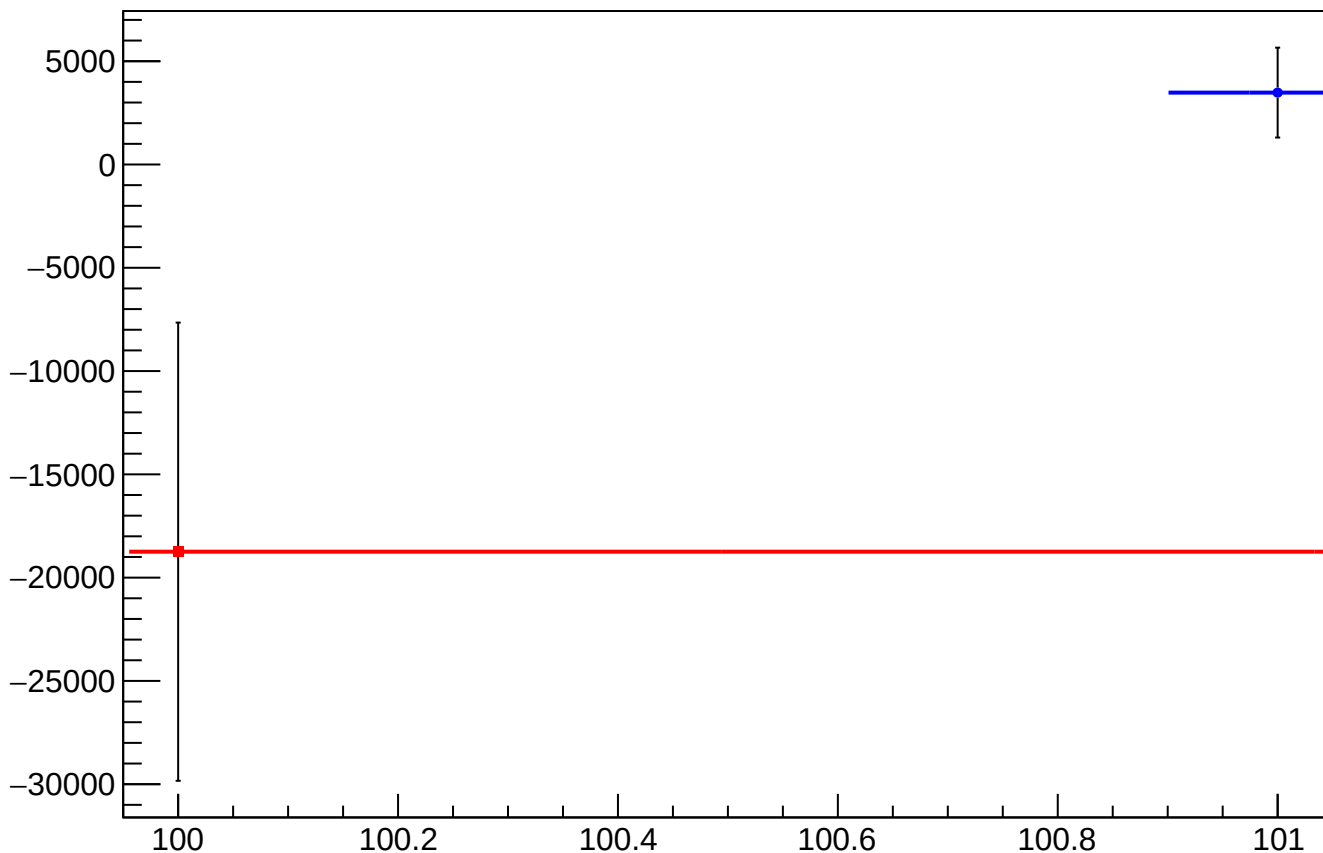
Right: 2723.783 $\pm$ 2.261  $\chi^2/\text{NDF}$ : 1494.0/1

In: 2697.794 $\pm$ 2.359  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2723.783 $\pm$ 2.261  $\chi^2/\text{NDF}$ : 1494.0/1

asym\_at2\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 3480.172+/-2175.620  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18744.596+/-11091.013  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

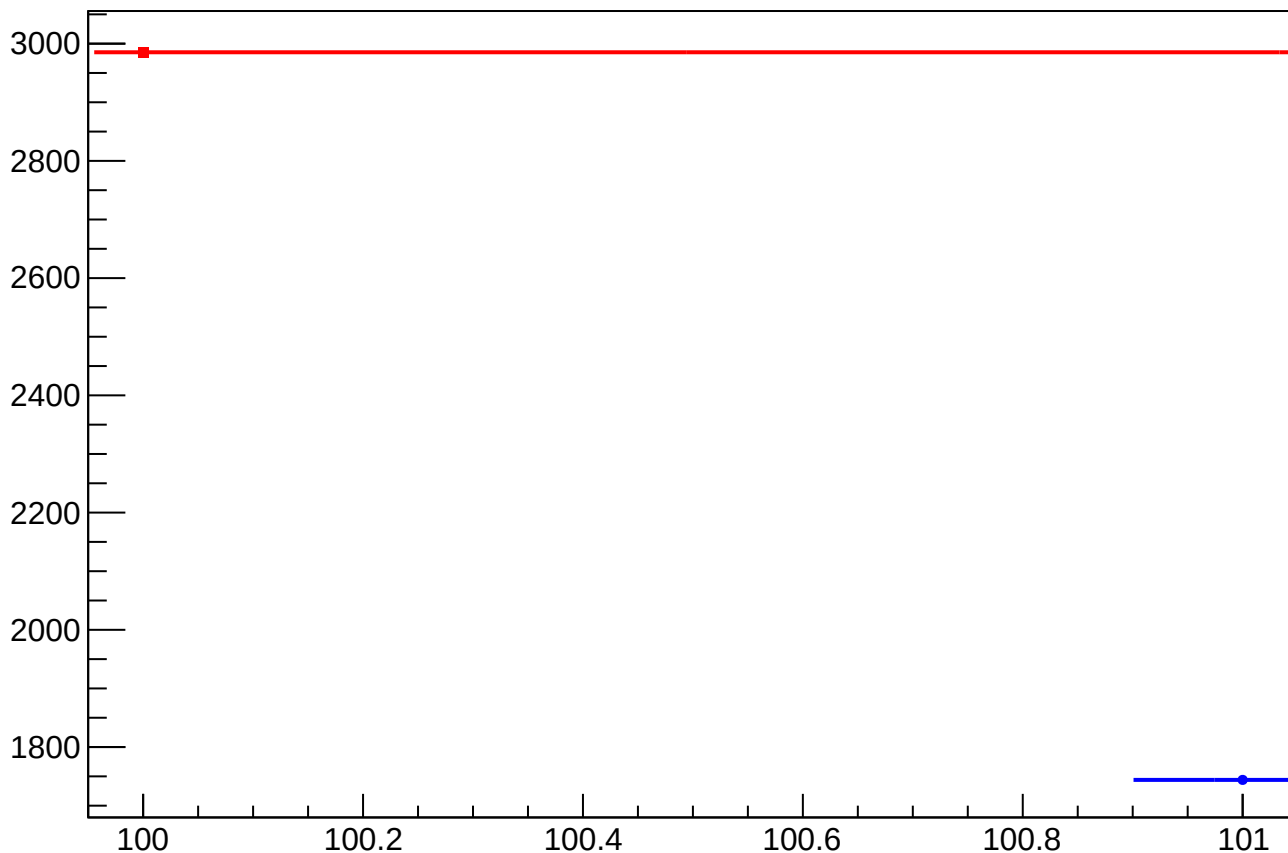
Right: 2656.673+/-2134.933  $\chi^2/\text{NDF}$ : 3.9/1

In: 3480.172+/-2175.620  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2656.673+/-2134.933  $\chi^2/\text{NDF}$ : 3.9/1

asym\_at2\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1743.970+/-1.538  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2985.306+/-7.843  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

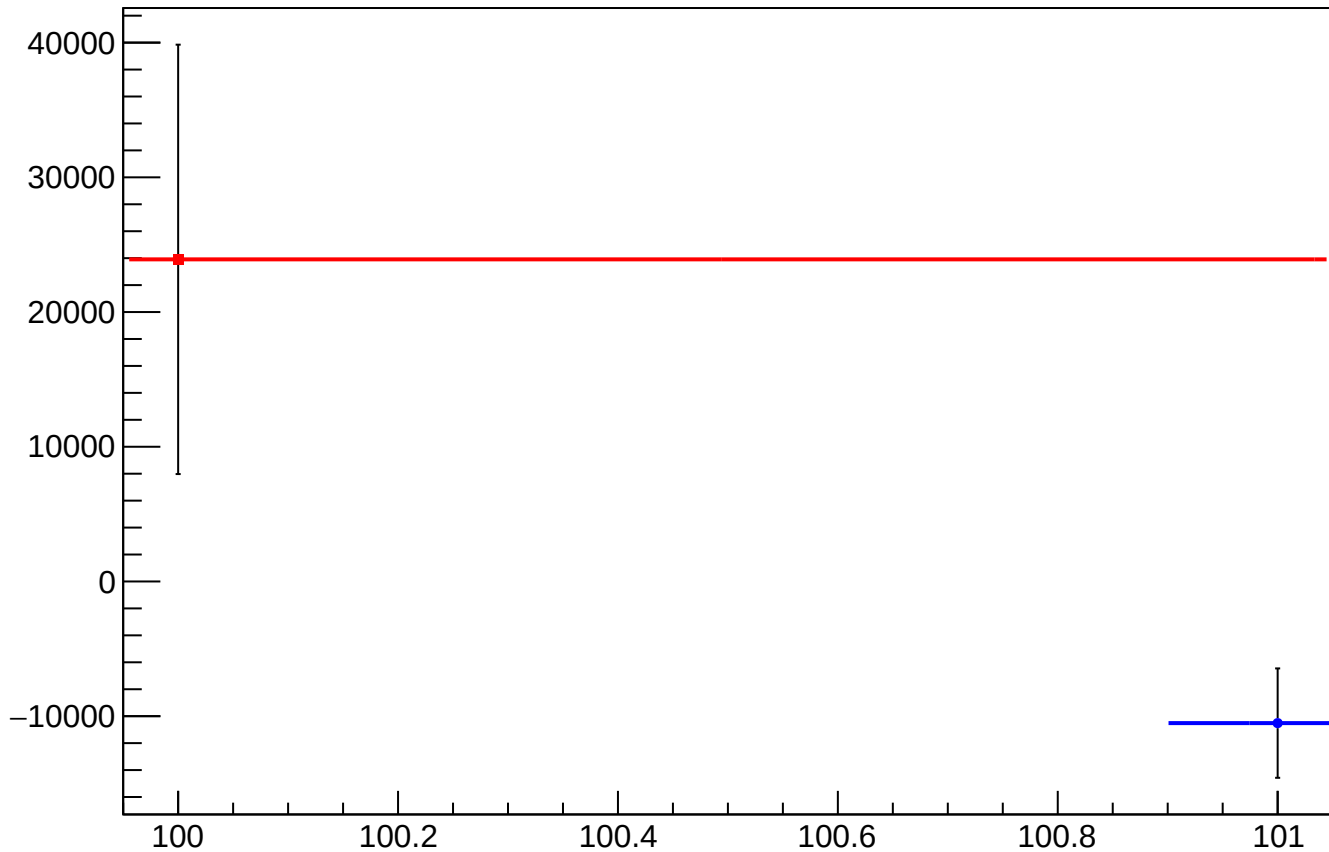
Right: 1789.965+/-1.510  $\chi^2/\text{NDF}$ : 24125.1/1

In: 1743.970+/-1.538  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1789.965+/-1.510  $\chi^2/\text{NDF}$ : 24125.1/1

# asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: -10514.158 $\pm$ 4060.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23910.481 $\pm$ 15937.236  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

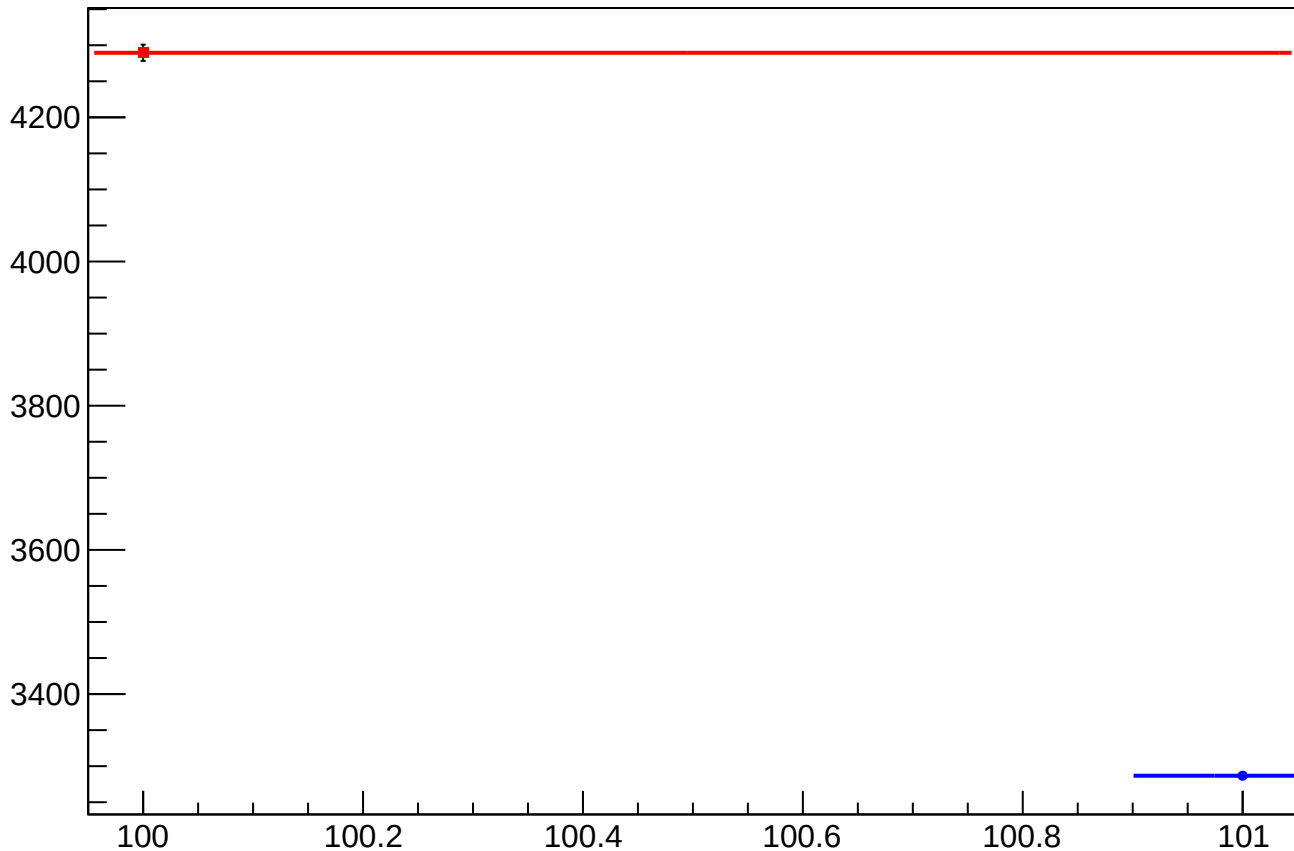
Right: -8416.169 $\pm$ 3934.413  $\chi^2/\text{NDF}$ : 4.4/1

In: -10514.158 $\pm$ 4060.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8416.169 $\pm$ 3934.413  $\chi^2/\text{NDF}$ : 4.4/1

# asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In: 3286.741 $\pm$ 2.871  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4289.522 $\pm$ 11.269  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

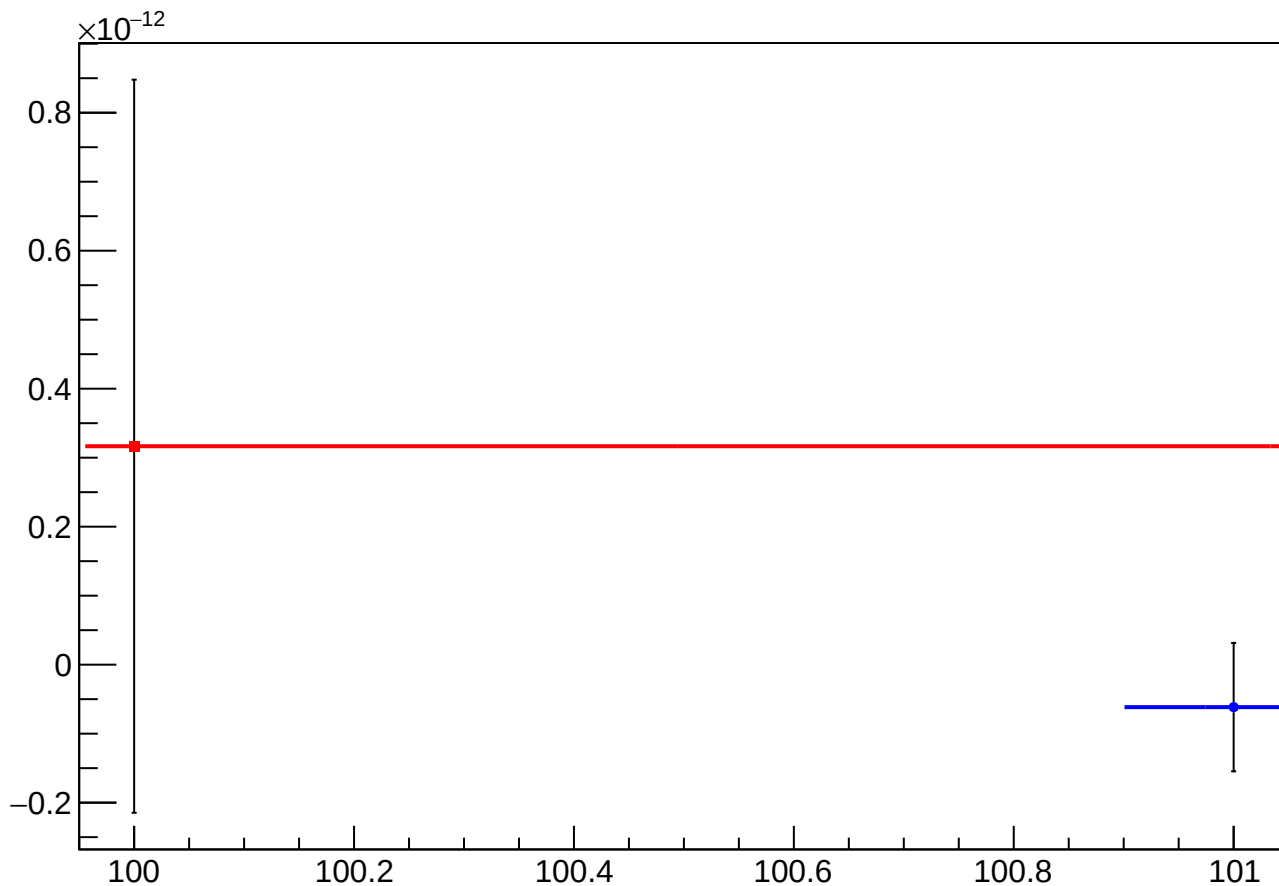
Right: 3347.855 $\pm$ 2.782  $\chi^2$ /NDF: 7435.5/1

In: 3286.741 $\pm$ 2.871  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3347.855 $\pm$ 2.782  $\chi^2$ /NDF: 7435.5/1

asym\_at2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

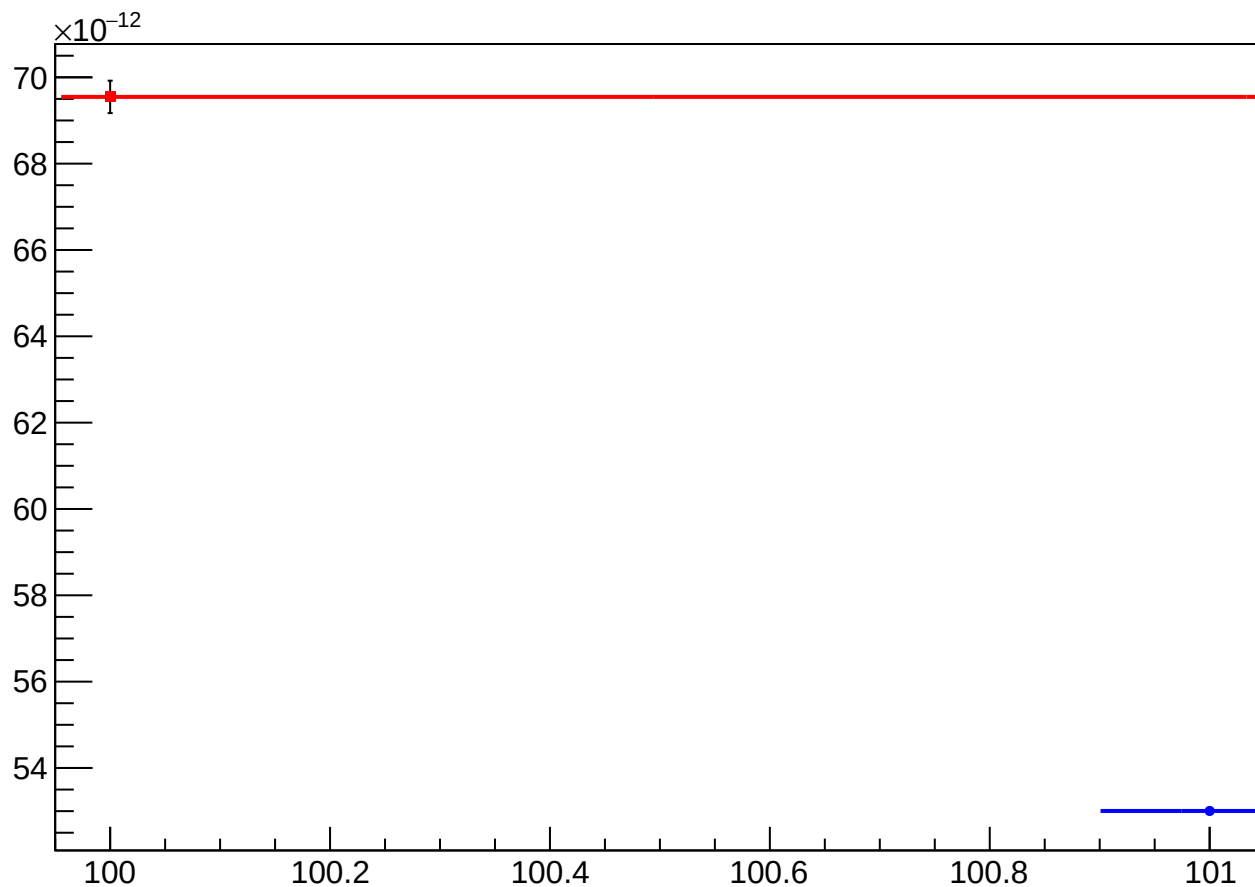
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.5/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.5/1

asym\_at2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected

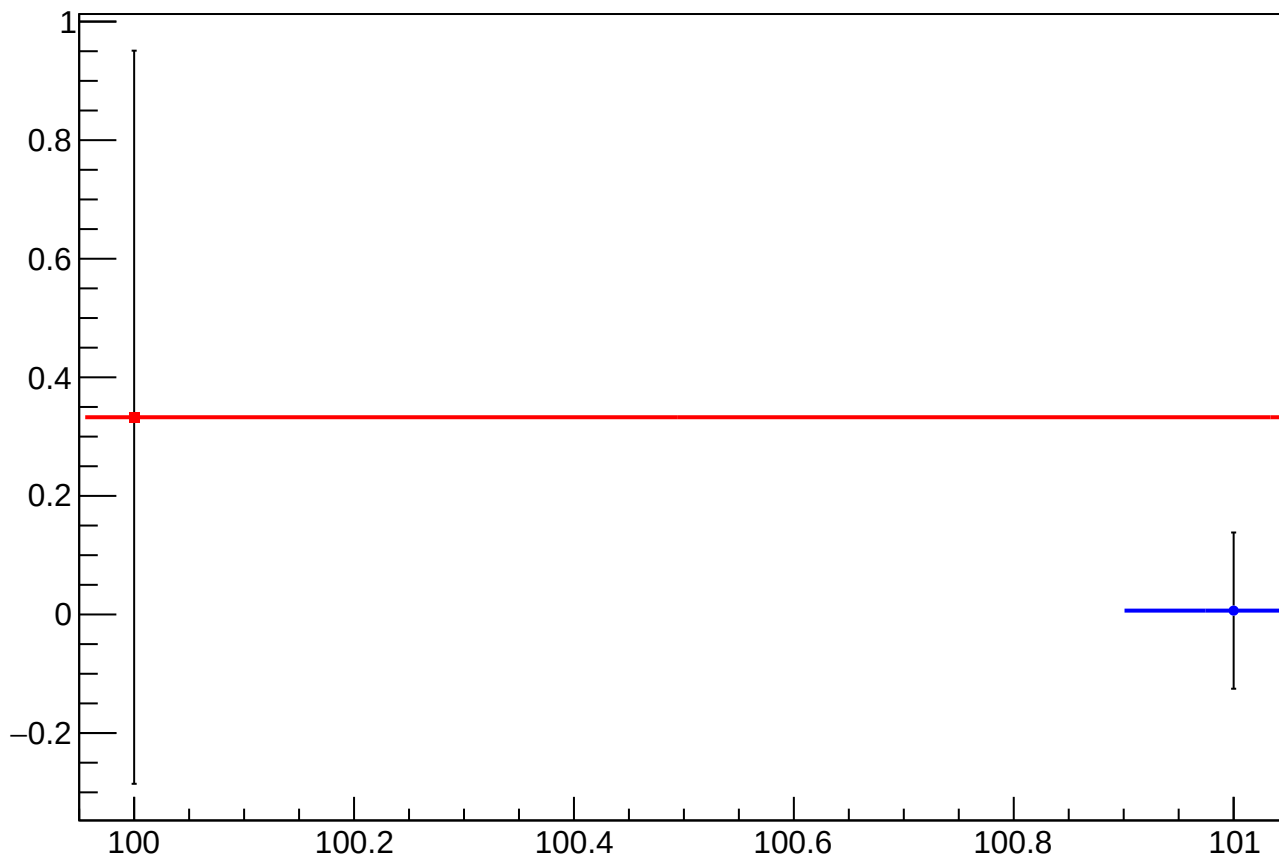


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1881.1/1  
 In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1881.1/1



asym\_at2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.333 $\pm$ 0.618  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

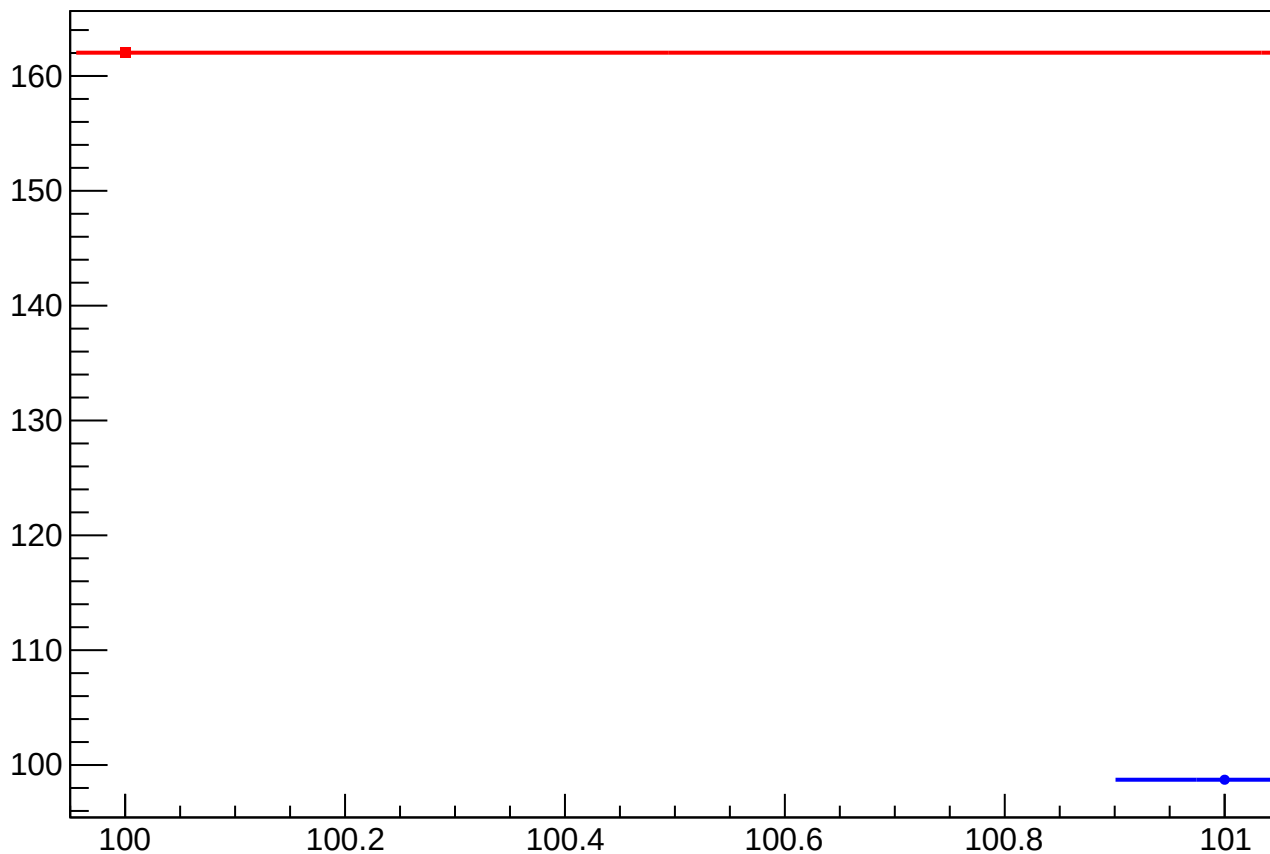
Right: 0.021 $\pm$ 0.129  $\chi^2$ /NDF: 0.3/1

In: 0.007 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.129  $\chi^2$ /NDF: 0.3/1

asym\_at2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 98.718+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.028+/-0.437  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

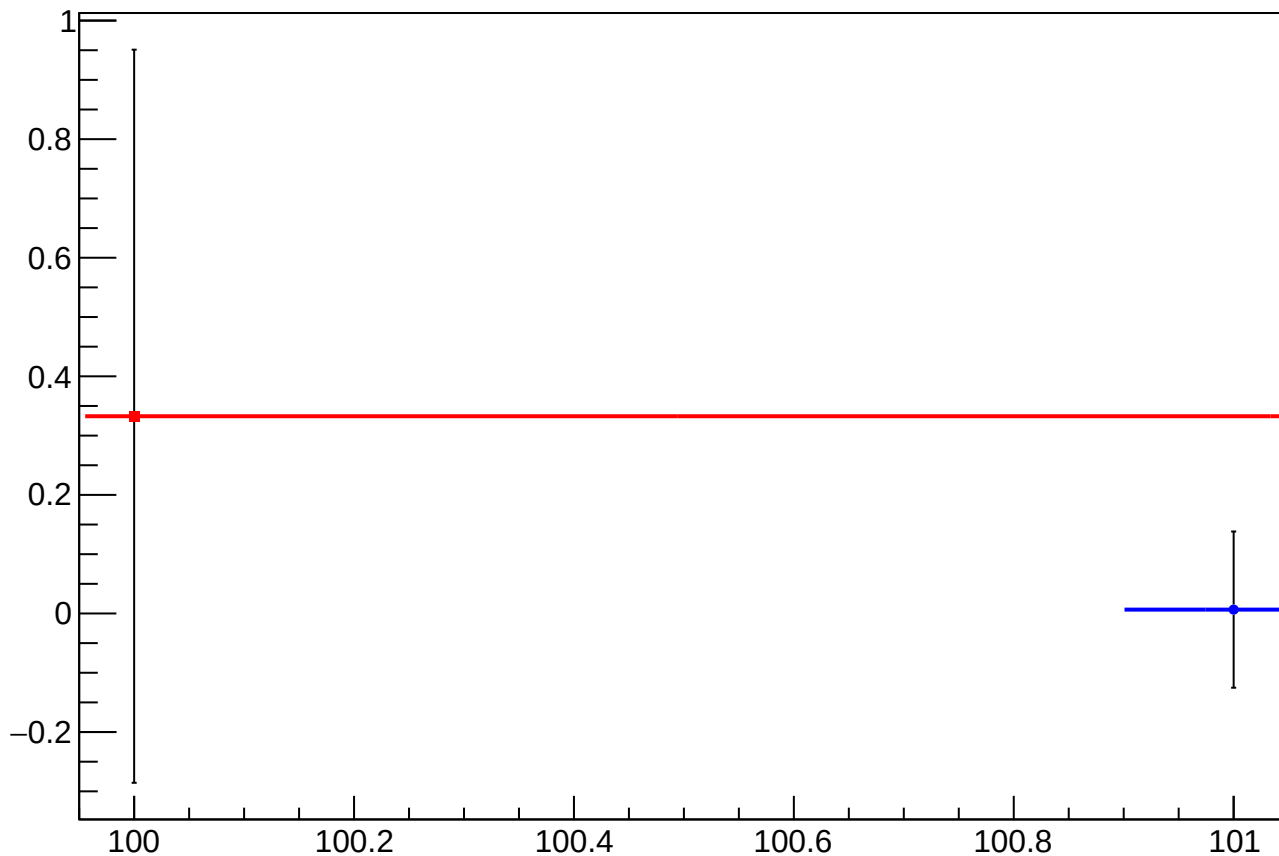
Right: 101.468+/-0.091  $\chi^2/\text{NDF}$ : 20060.5/1

In: 98.718+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.468+/-0.091  $\chi^2/\text{NDF}$ : 20060.5/1

asym\_at2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.333 $\pm$ 0.618  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

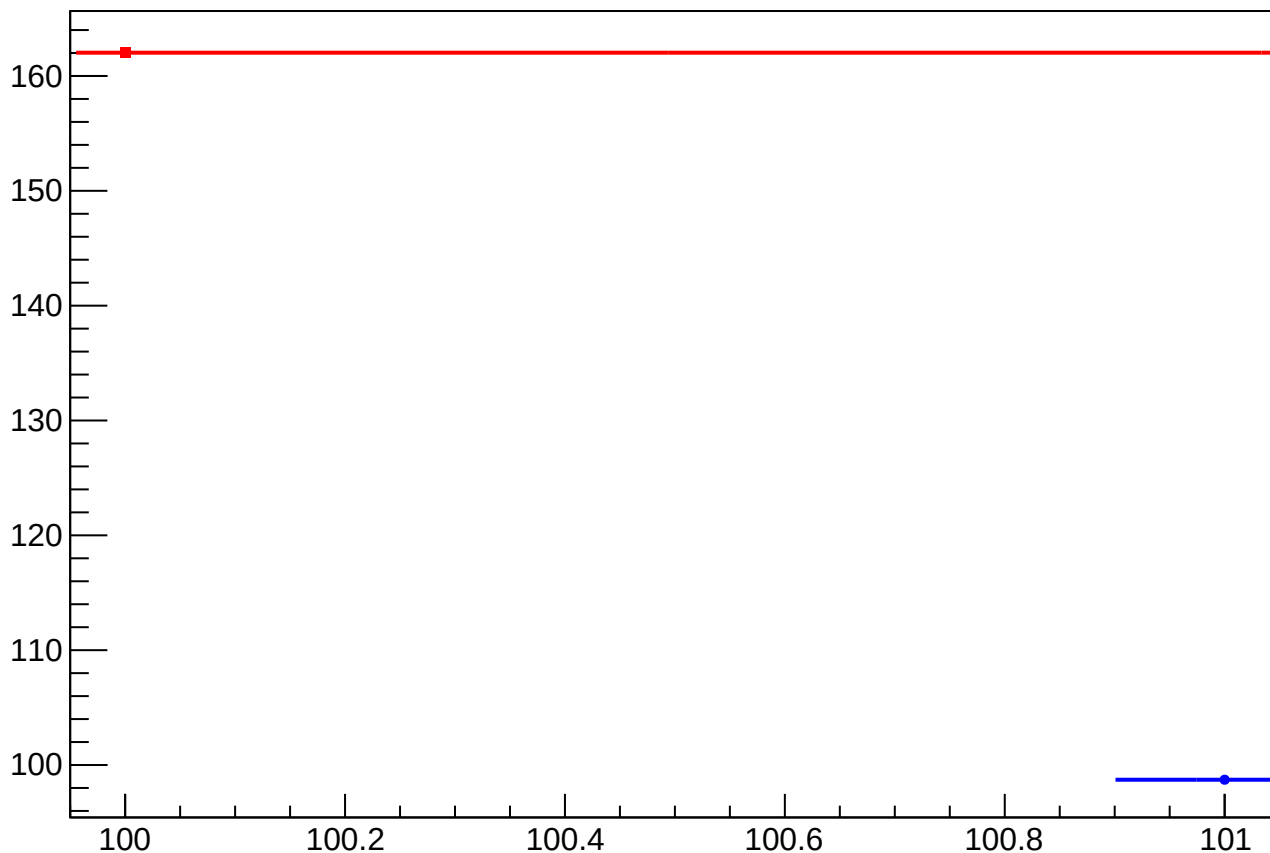
Right: 0.021 $\pm$ 0.129  $\chi^2$ /NDF: 0.3/1

In: 0.007 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.129  $\chi^2$ /NDF: 0.3/1

asym\_at2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 98.718 $\pm$ 0.093  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 162.028 $\pm$ 0.437  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

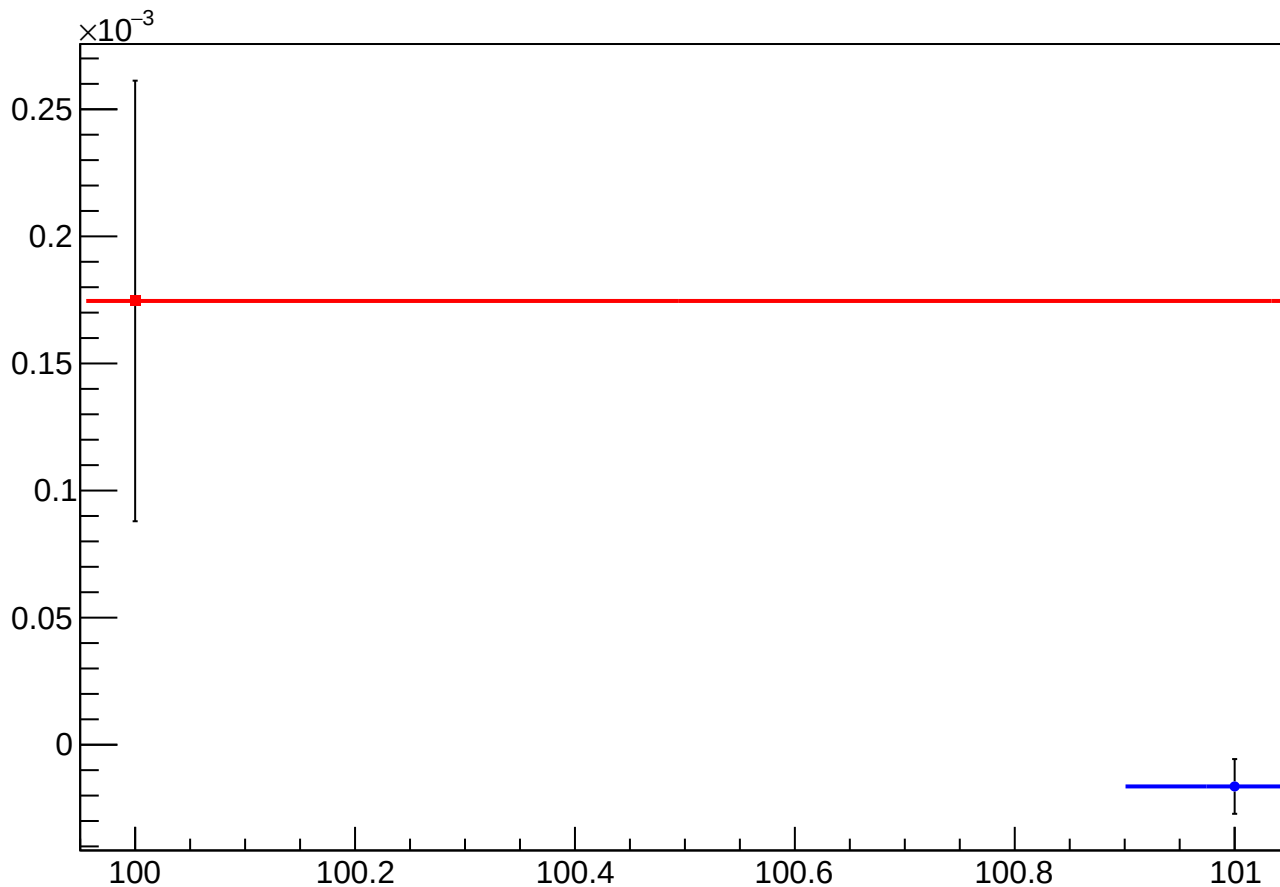
Right: 101.468 $\pm$ 0.091  $\chi^2$ /NDF: 20060.5/1

In: 98.718 $\pm$ 0.093  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 101.468 $\pm$ 0.091  $\chi^2$ /NDF: 20060.5/1

asym\_at2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

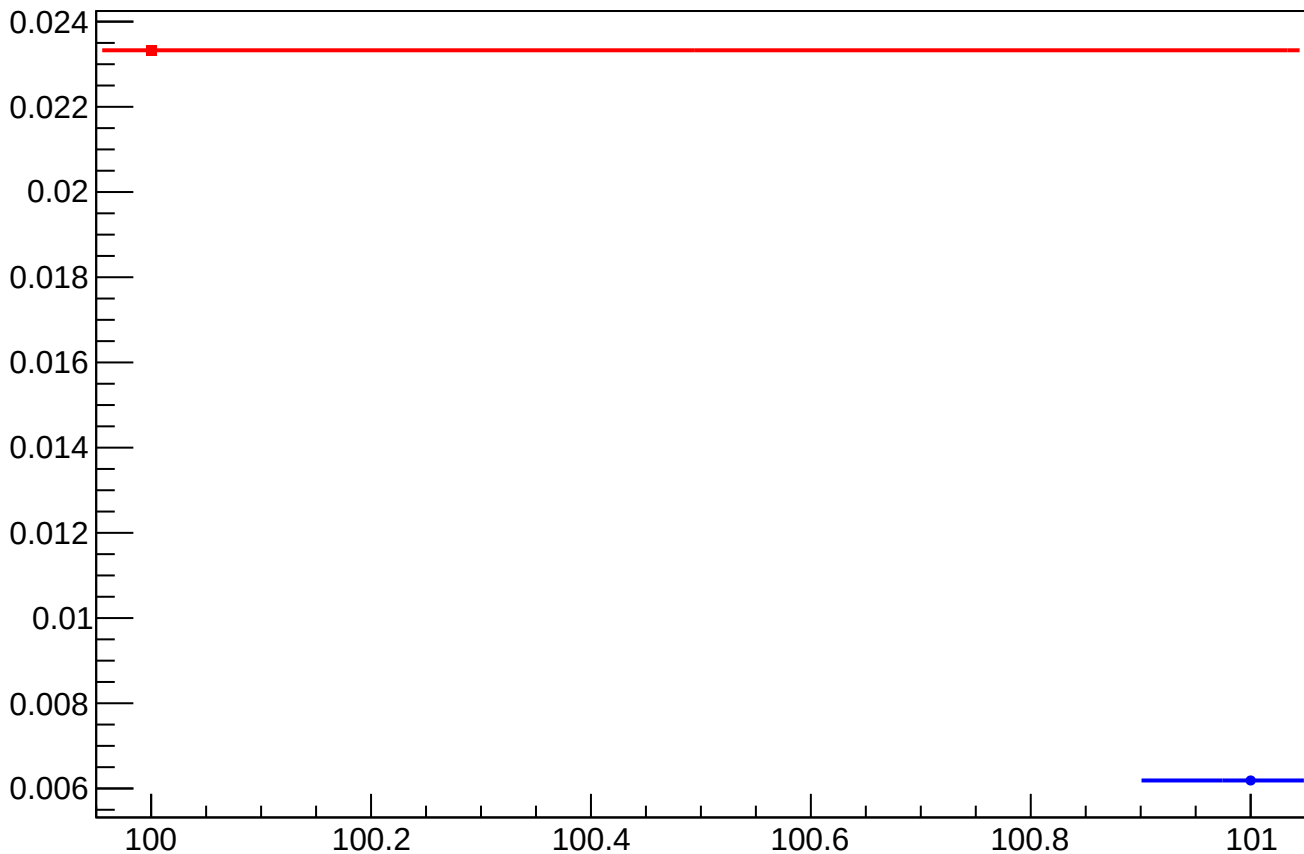
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/1

asym\_at2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

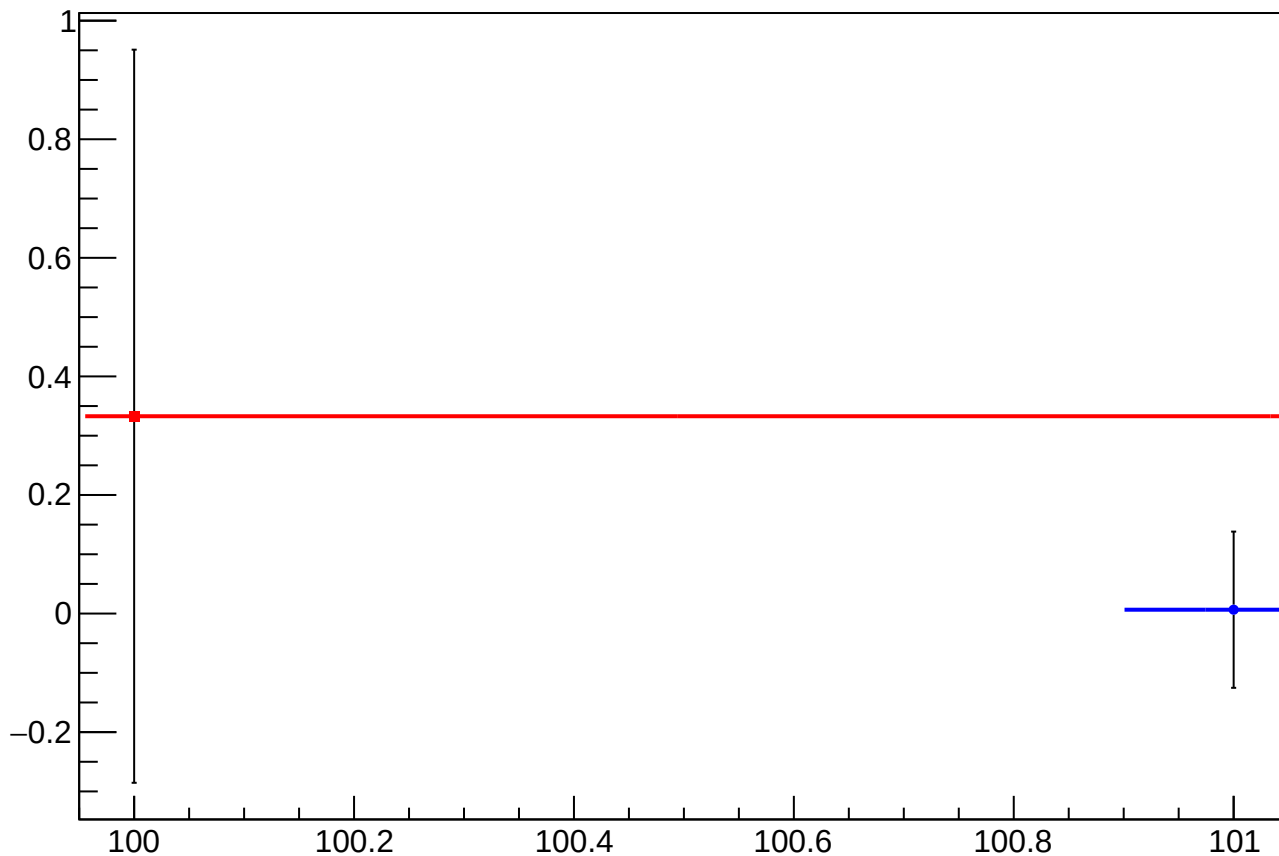
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 77035.7/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 77035.7/1

asym\_at2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.333 $\pm$ 0.618  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

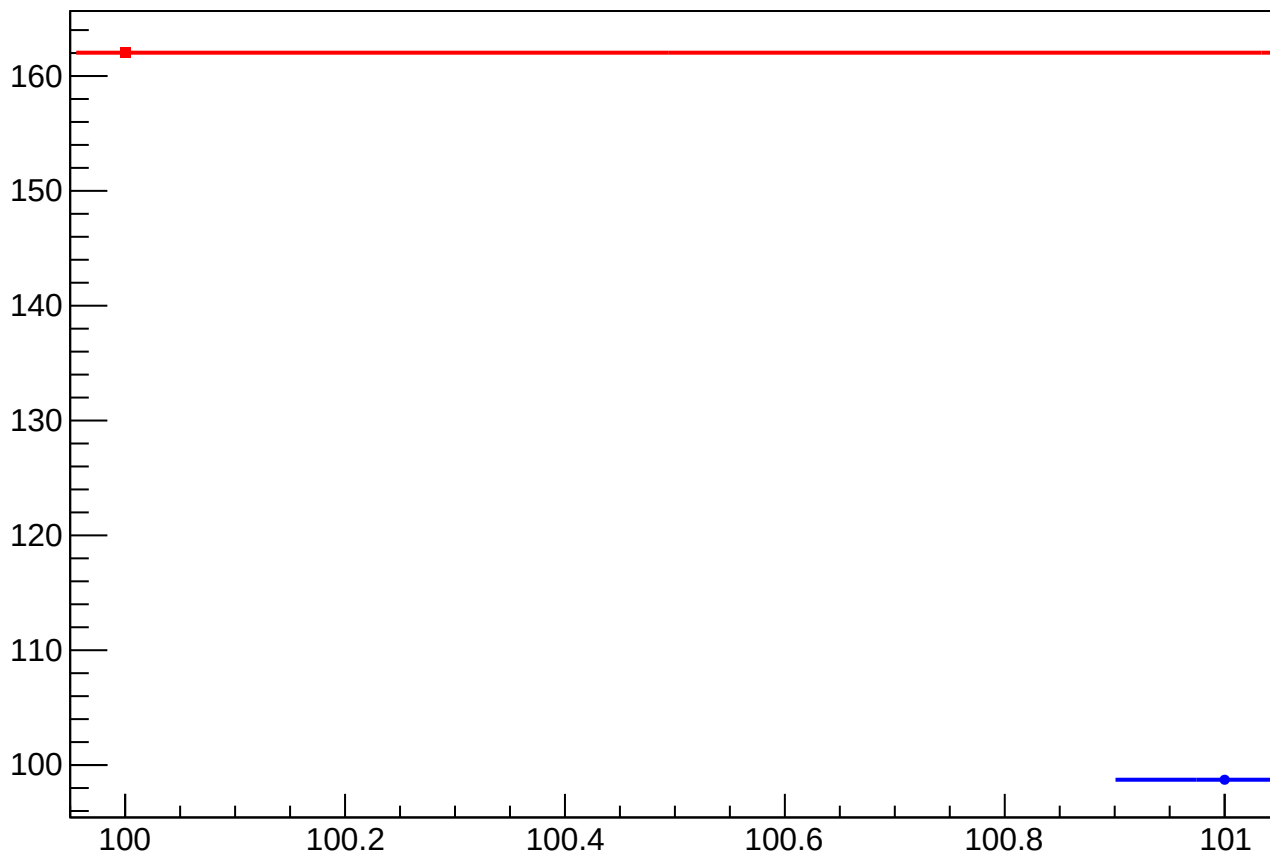
Right: 0.021 $\pm$ 0.129  $\chi^2$ /NDF: 0.3/1

In: 0.006 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.129  $\chi^2$ /NDF: 0.3/1

asym\_at2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 98.723+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.031+/-0.437  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 101.473+/-0.091  $\chi^2/\text{NDF}$ : 20058.7/1

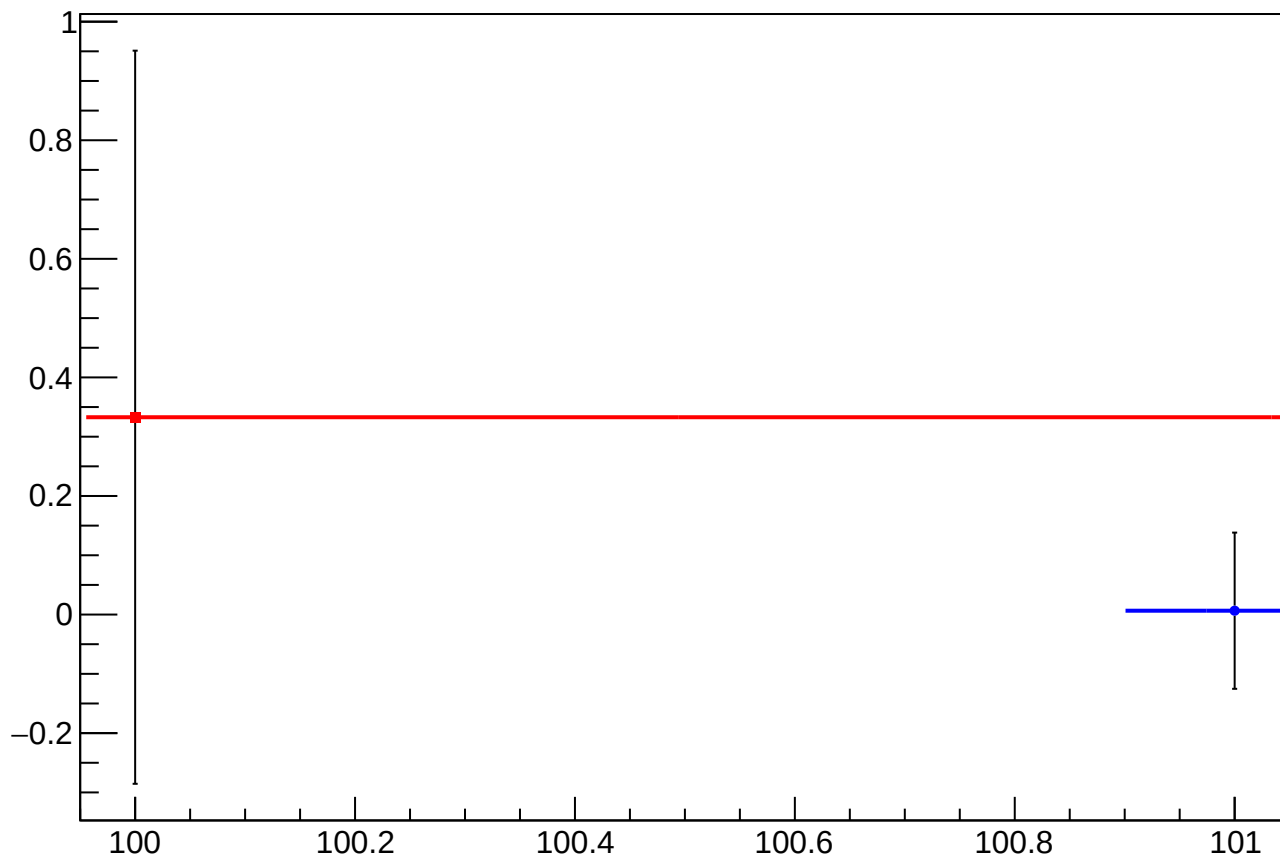
In: 98.723+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.473+/-0.091  $\chi^2/\text{NDF}$ : 20058.7/1



asym\_at2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.132  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.333 $\pm$ 0.618  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

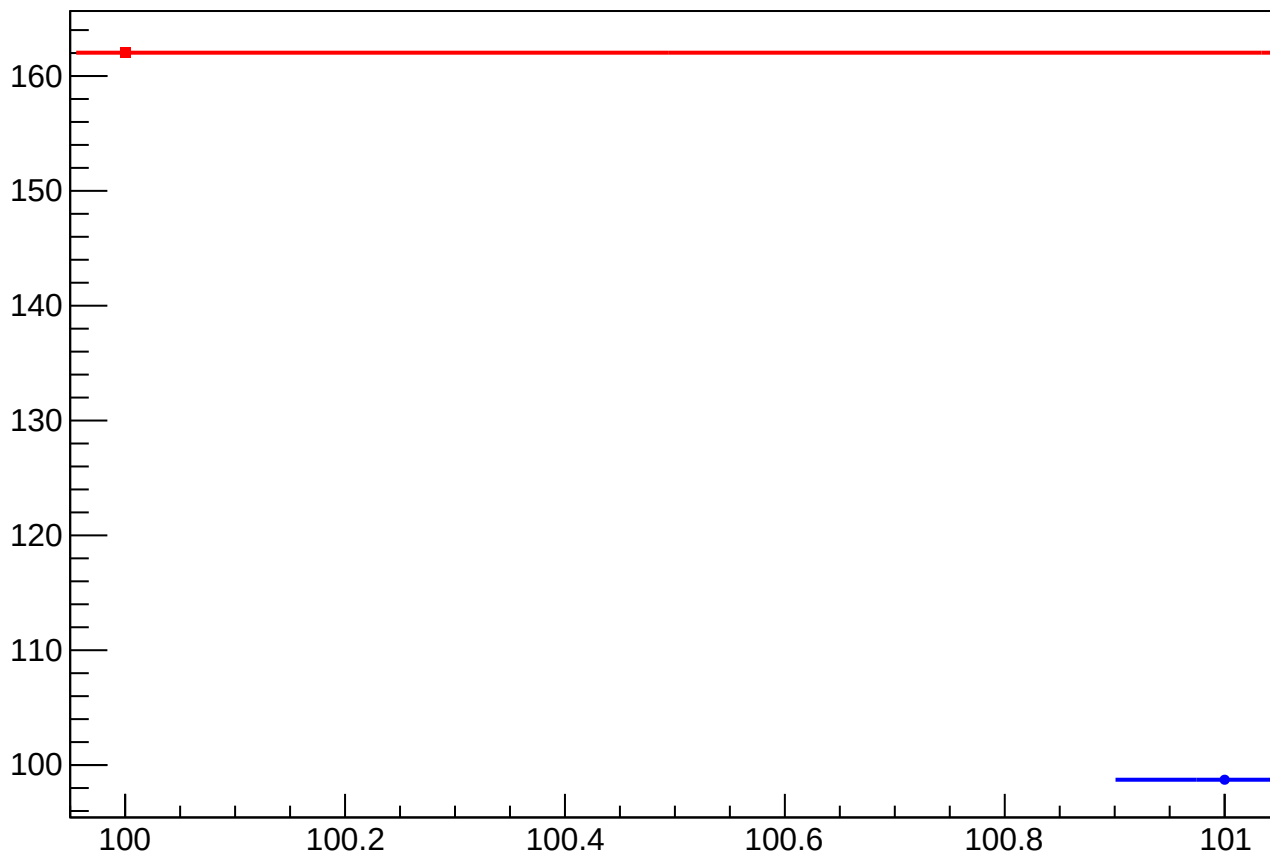
Right: 0.021 $\pm$ 0.129  $\chi^2/\text{NDF}$ : 0.3/1

In: 0.006 $\pm$ 0.132  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.021 $\pm$ 0.129  $\chi^2/\text{NDF}$ : 0.3/1

asym\_at2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 98.723+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.031+/-0.437  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

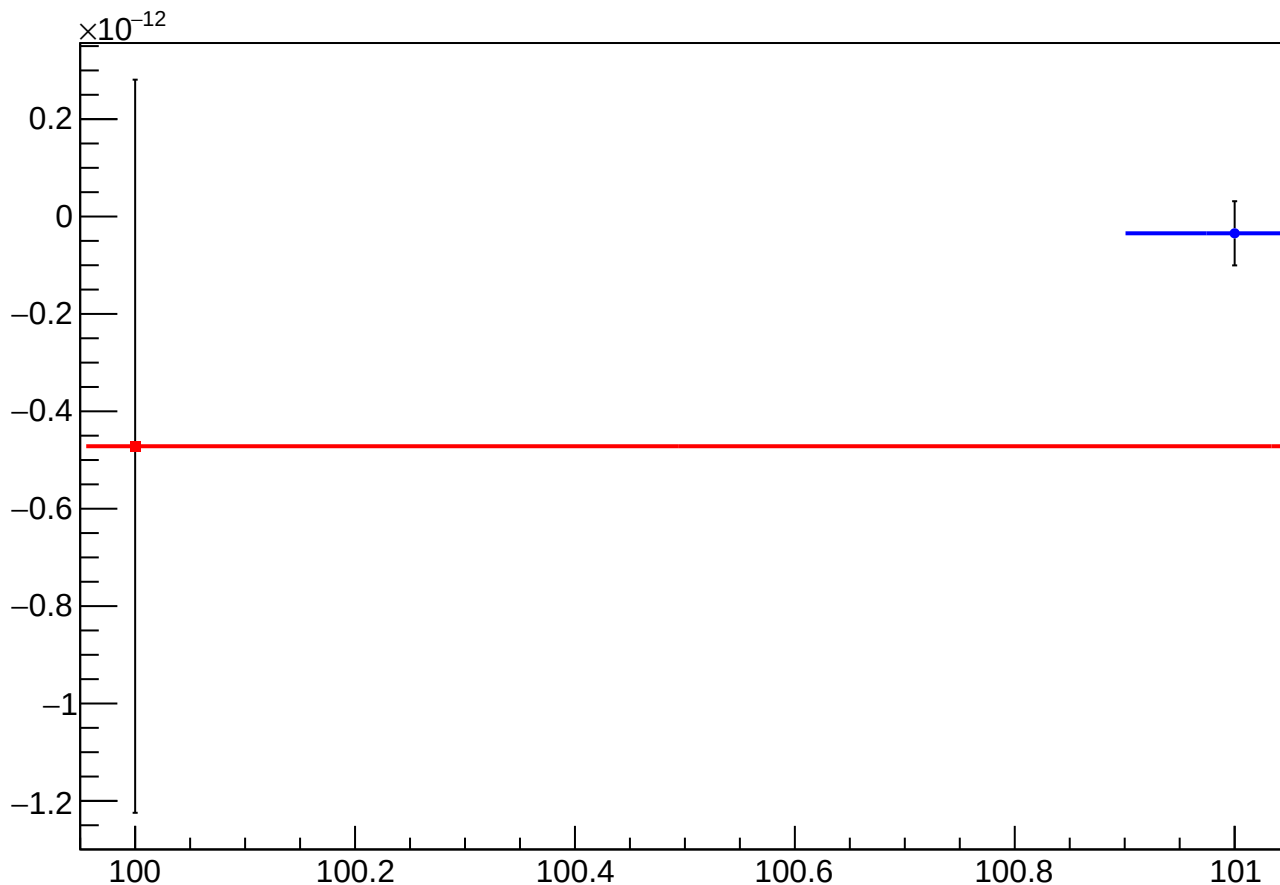
Right: 101.473+/-0.091  $\chi^2/\text{NDF}$ : 20058.7/1

In: 98.723+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 101.473+/-0.091  $\chi^2/\text{NDF}$ : 20058.7/1

asym\_at2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

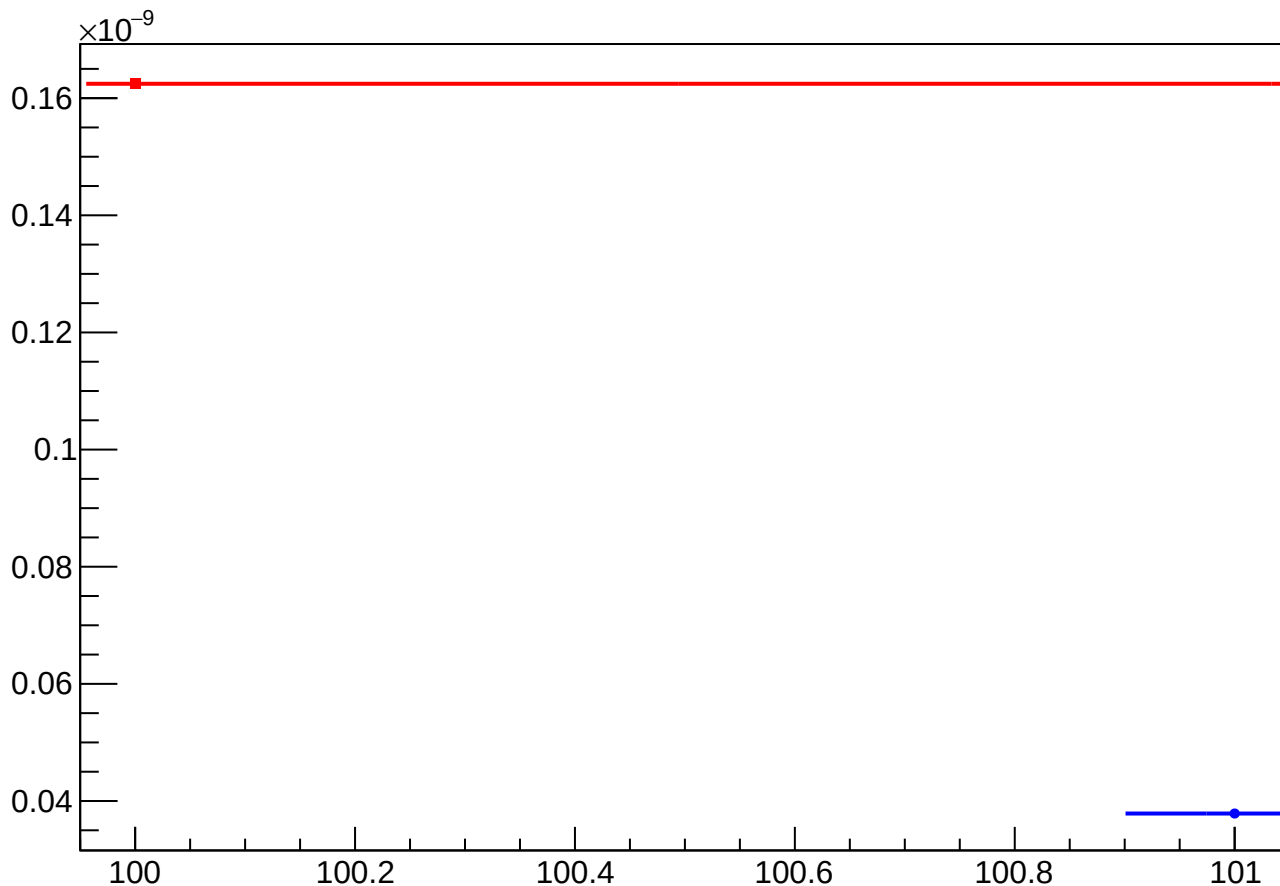
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

asym\_at2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

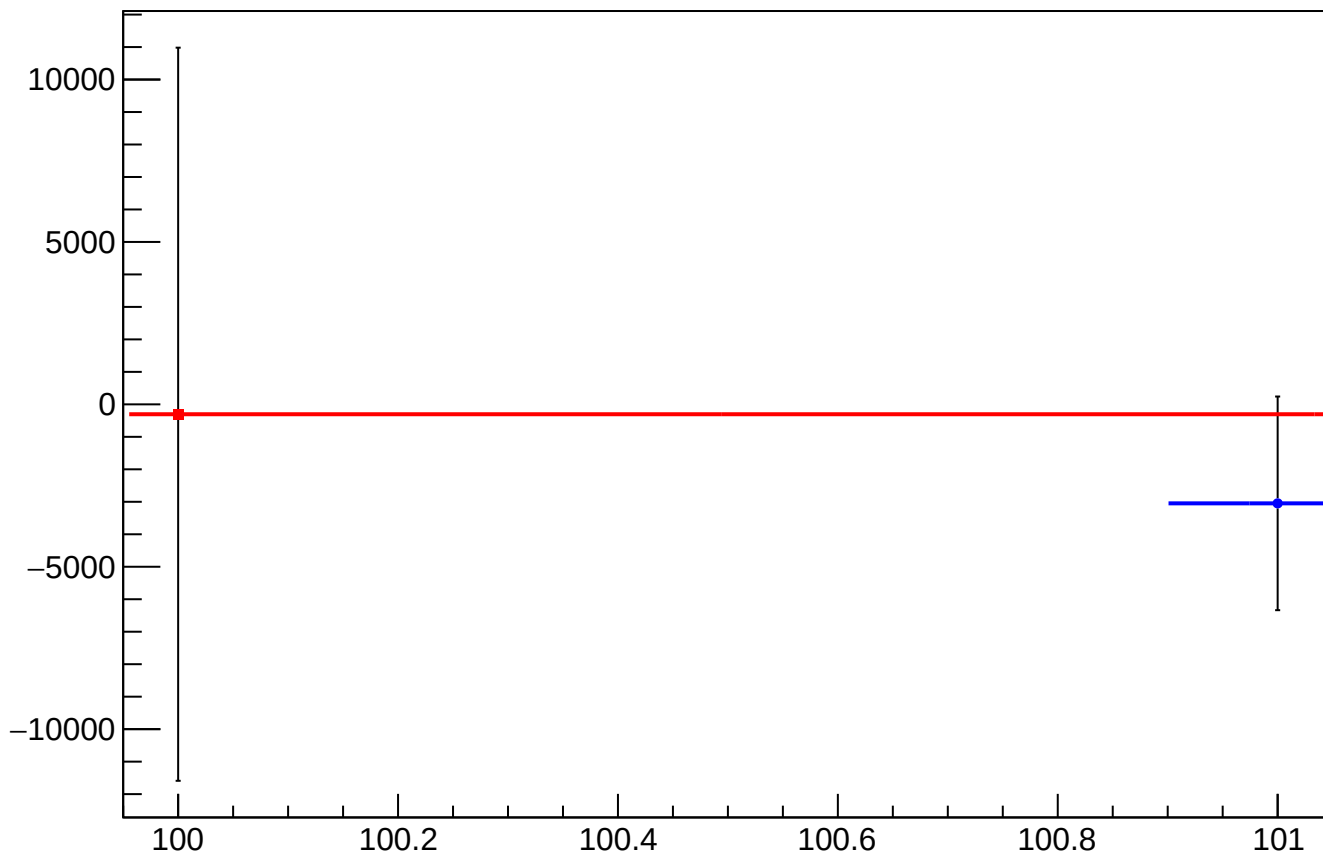
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 54376.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 54376.6/1

reg\_asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



Right In: -3048.080+/-3289.006  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -304.327+/-11285.606  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

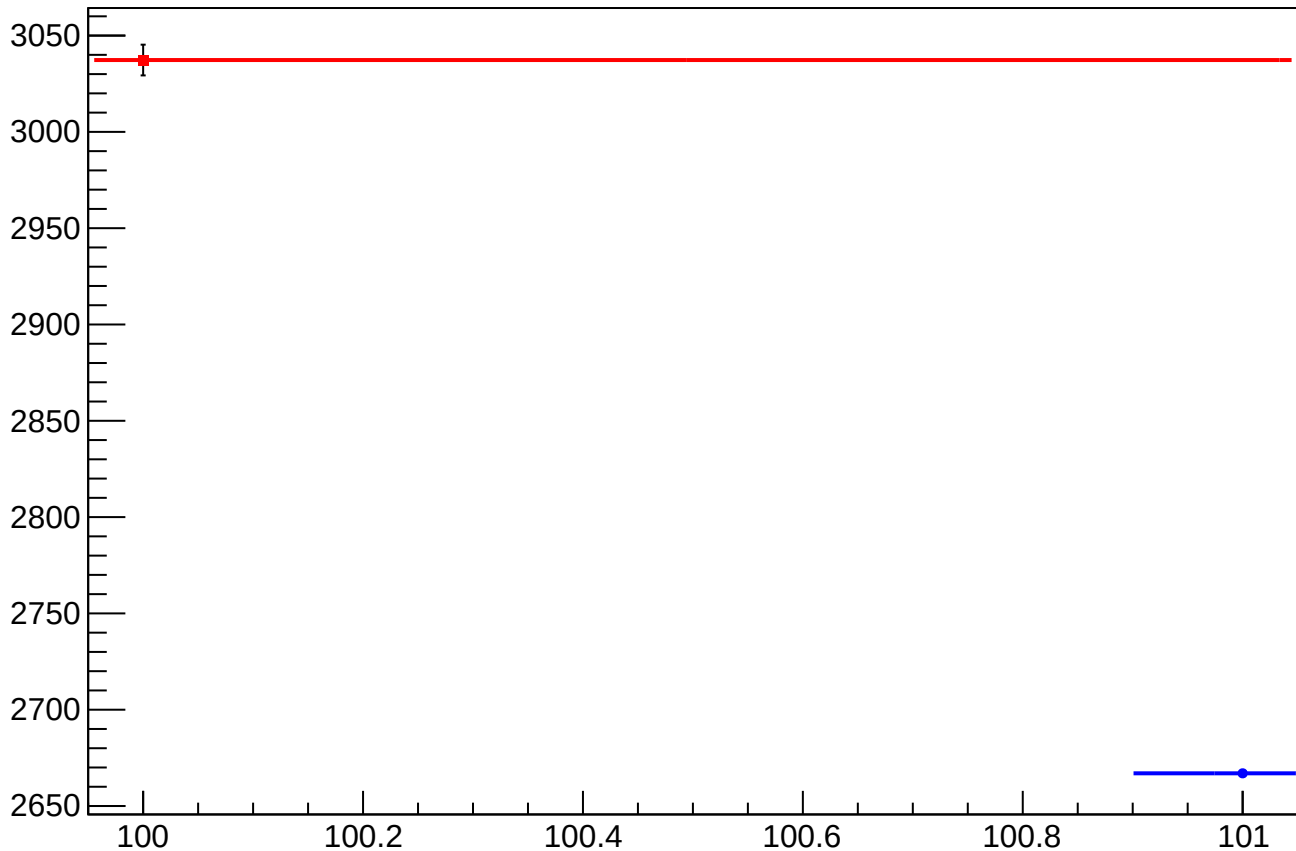
Right: -2833.287+/-3157.643  $\chi^2$ /NDF: 0.1/1

In: -3048.080+/-3289.006  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2833.287+/-3157.643  $\chi^2$ /NDF: 0.1/1

reg\_asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



Right In: 2666.973+/-2.326  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3037.300+/-7.980  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

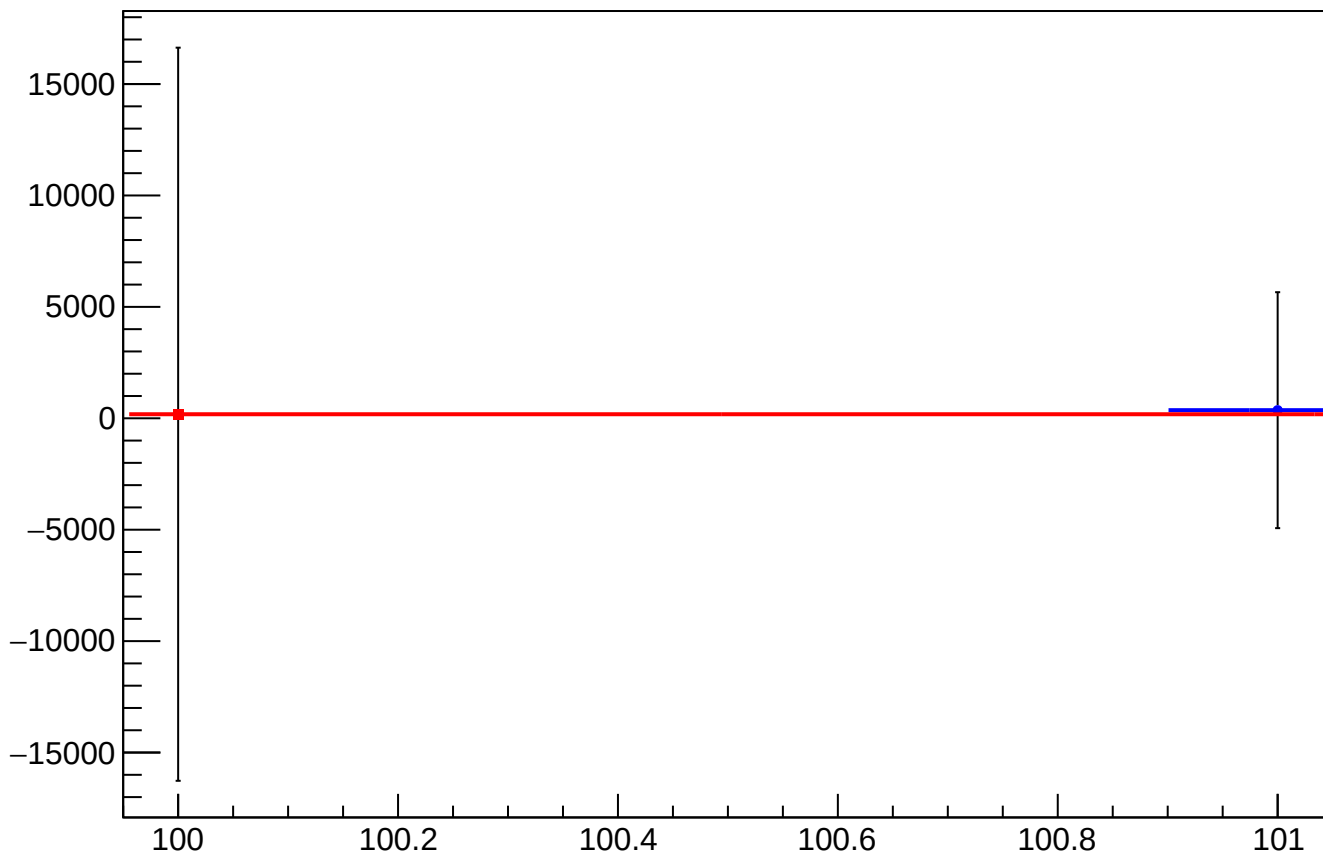
Right: 2695.964+/-2.233  $\chi^2/\text{NDF}$ : 1984.9/1

In: 2666.973+/-2.326  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2695.964+/-2.233  $\chi^2/\text{NDF}$ : 1984.9/1

asym\_atl1r2\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 364.500+/-5294.435  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 182.182+/-16450.705  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

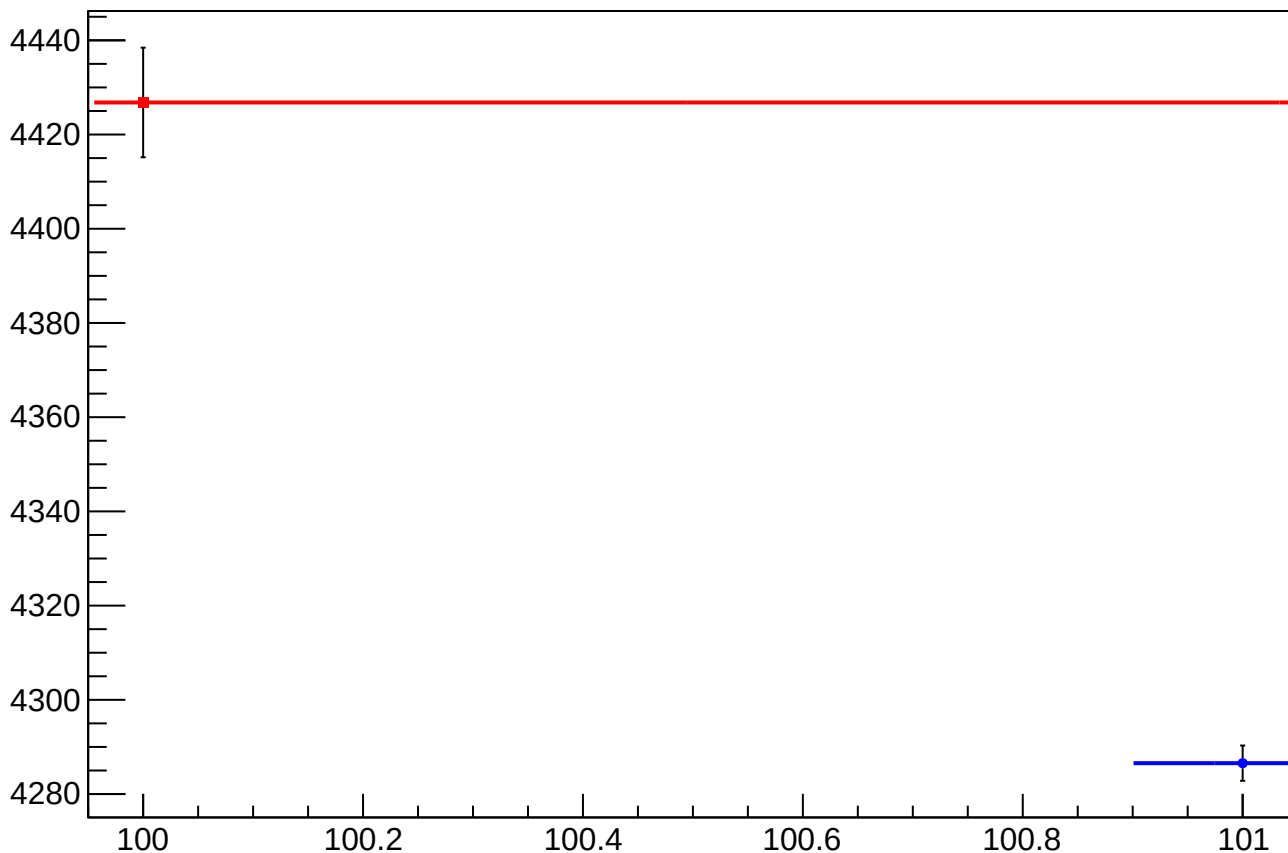
Right: 347.388+/-5039.854  $\chi^2$ /NDF: 0.0/1

In: 364.500+/-5294.435  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 347.388+/-5039.854  $\chi^2$ /NDF: 0.0/1

asym\_atl1r2\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4286.556+/-3.744  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4426.807+/-11.632  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4299.720+/-3.564  $\chi^2/\text{NDF}$ : 131.7/1

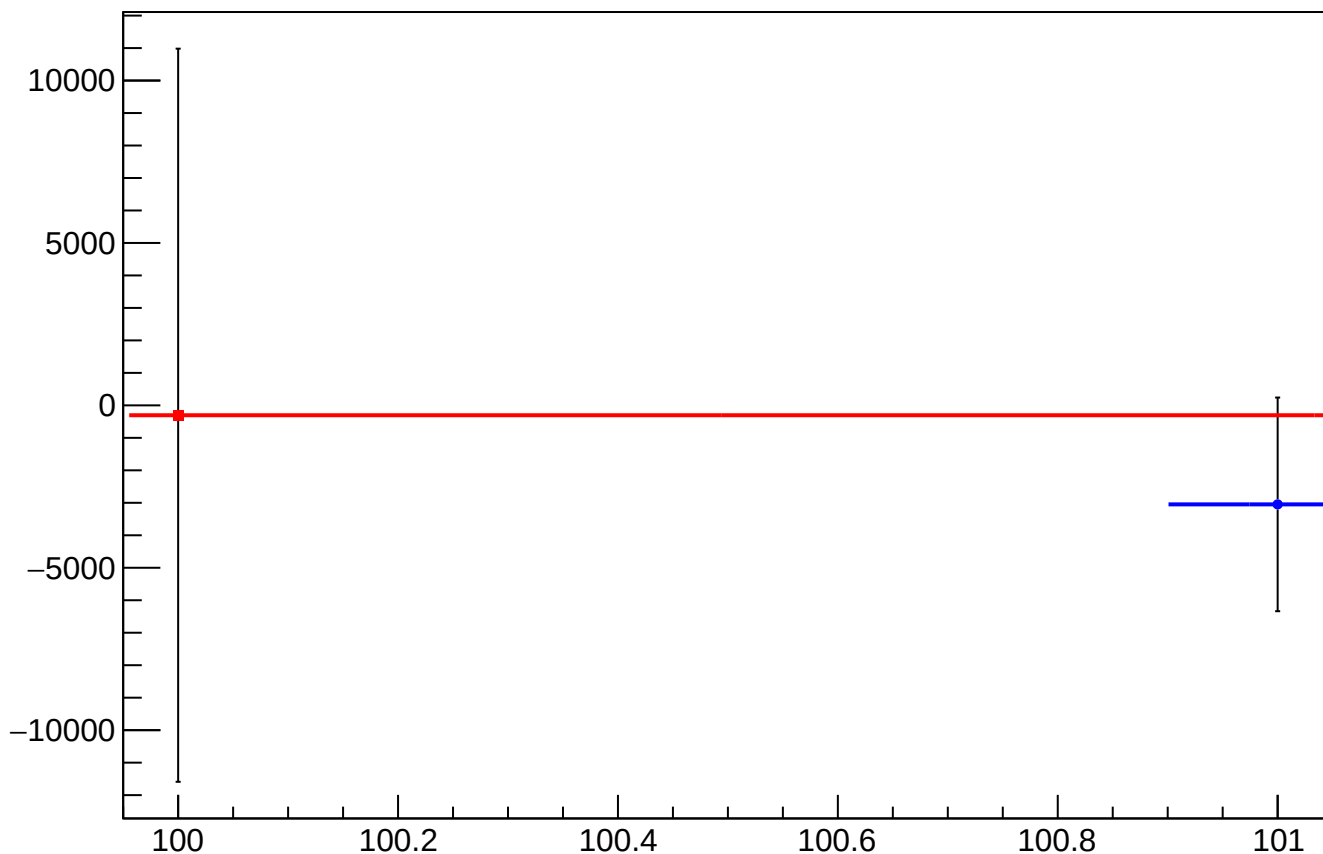
In: 4286.556+/-3.744  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4299.720+/-3.564  $\chi^2/\text{NDF}$ : 131.7/1



cor\_asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



Right In: -3048.390+/-3289.006  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -303.967+/-11285.606  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

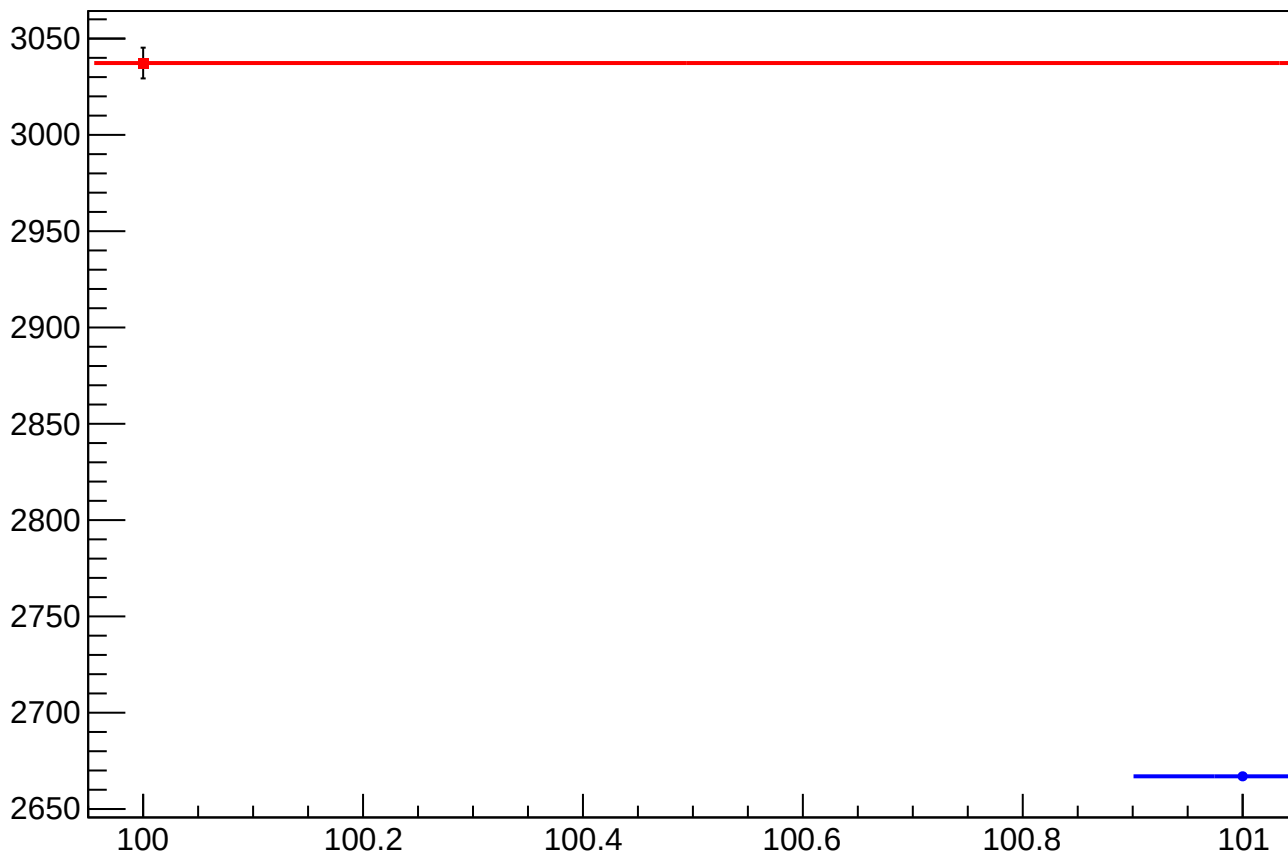
Right: -2833.544+/-3157.643  $\chi^2/\text{NDF}$ : 0.1/1

In: -3048.390+/-3289.006  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2833.544+/-3157.643  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



Right In: 2666.973 $\pm$ 2.326  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3037.300 $\pm$ 7.980  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

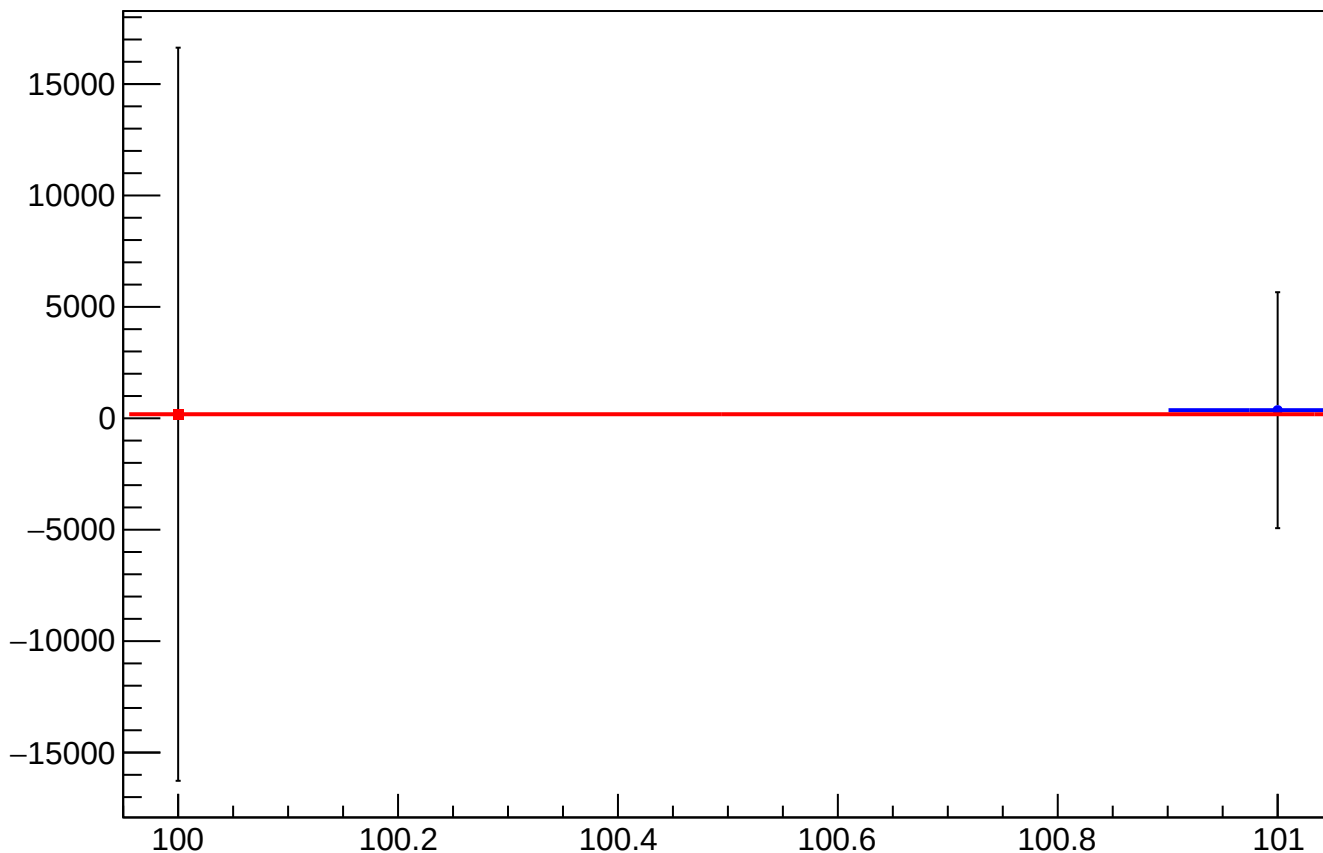
Right: 2695.964 $\pm$ 2.233  $\chi^2$ /NDF: 1984.9/1

In: 2666.973 $\pm$ 2.326  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2695.964 $\pm$ 2.233  $\chi^2$ /NDF: 1984.9/1

asym\_atl1r2\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 364.308+/-5294.437  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 182.602+/-16450.661  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

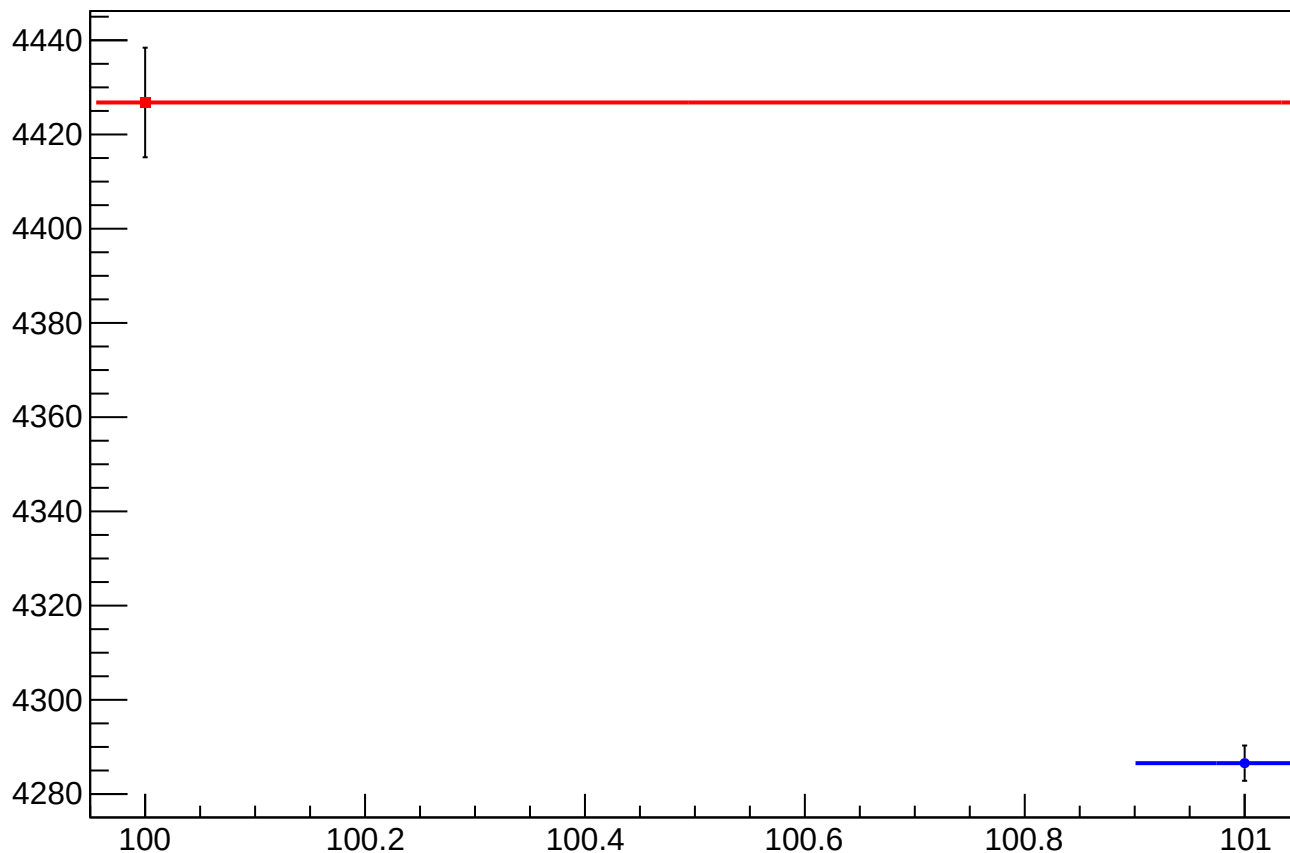
Right: 347.253+/-5039.855  $\chi^2/\text{NDF}$ : 0.0/1

In: 364.308+/-5294.437  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 347.253+/-5039.855  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4286.558 $\pm$ 3.744  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4426.795 $\pm$ 11.632  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

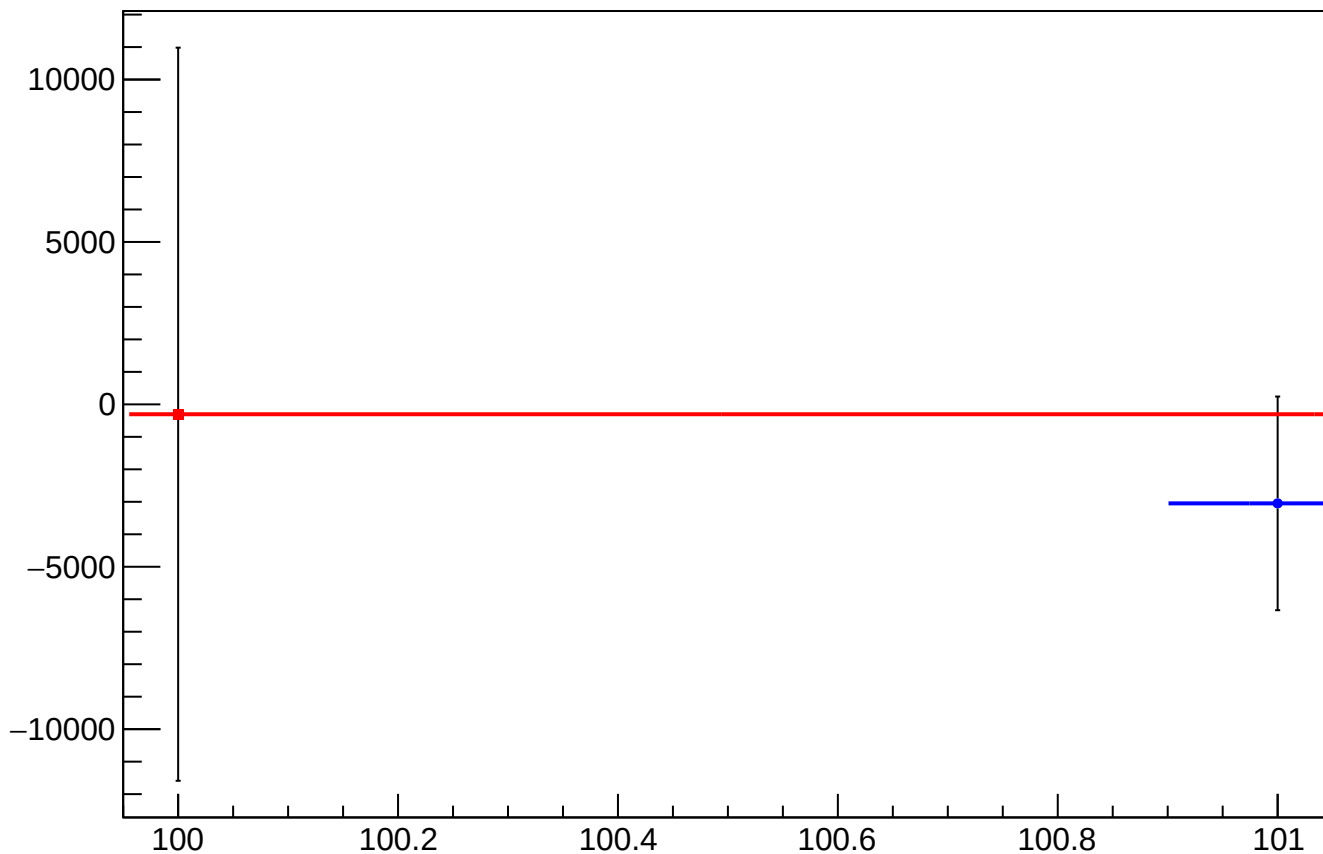
Right: 4299.720 $\pm$ 3.564  $\chi^2$ /NDF: 131.7/1

In: 4286.558 $\pm$ 3.744  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4299.720 $\pm$ 3.564  $\chi^2$ /NDF: 131.7/1

eigen\_cor\_asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



Right In: -3048.390+/-3289.006  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -303.967+/-11285.606  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

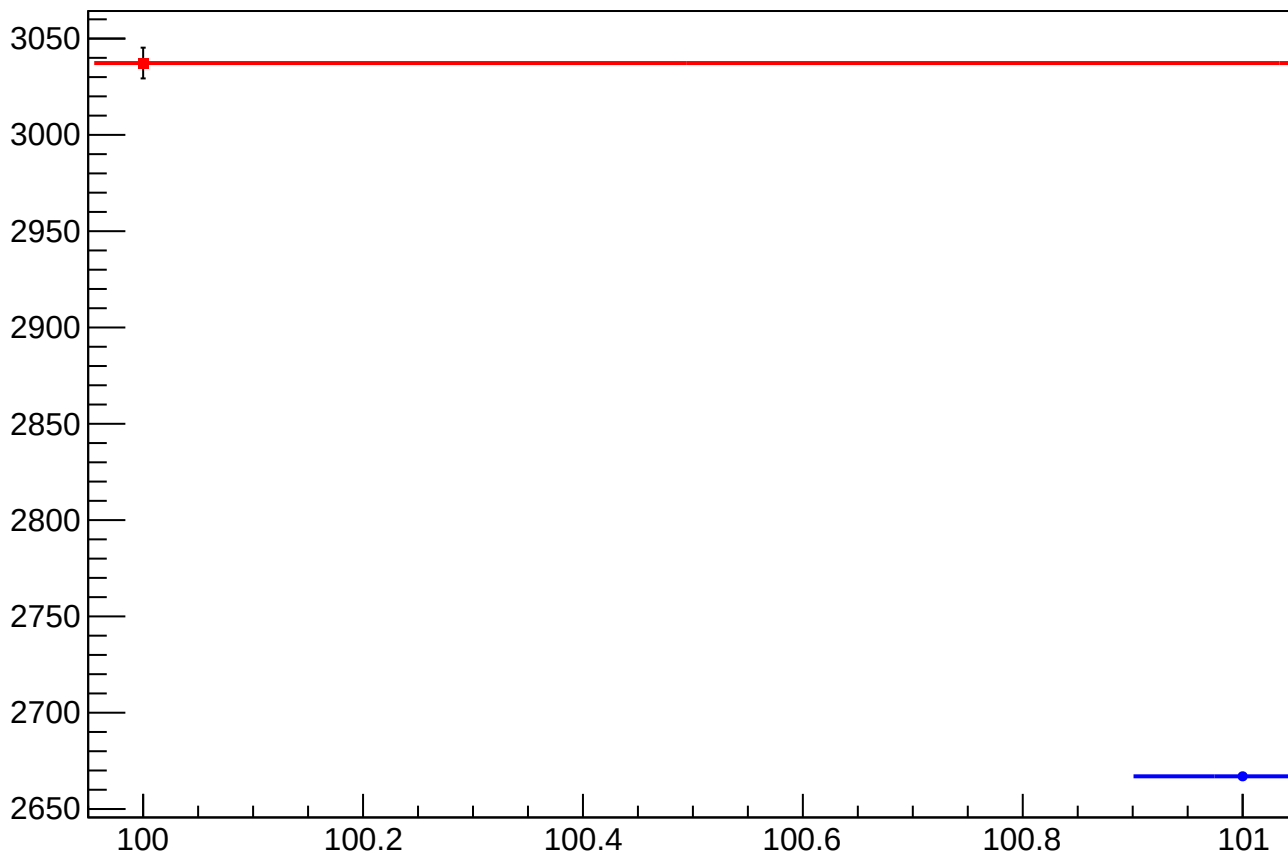
Right: -2833.544+/-3157.643  $\chi^2$ /NDF: 0.1/1

In: -3048.390+/-3289.006  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2833.544+/-3157.643  $\chi^2$ /NDF: 0.1/1

eigen\_cor\_asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



Right In: 2666.973+/-2.326  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3037.300+/-7.980  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

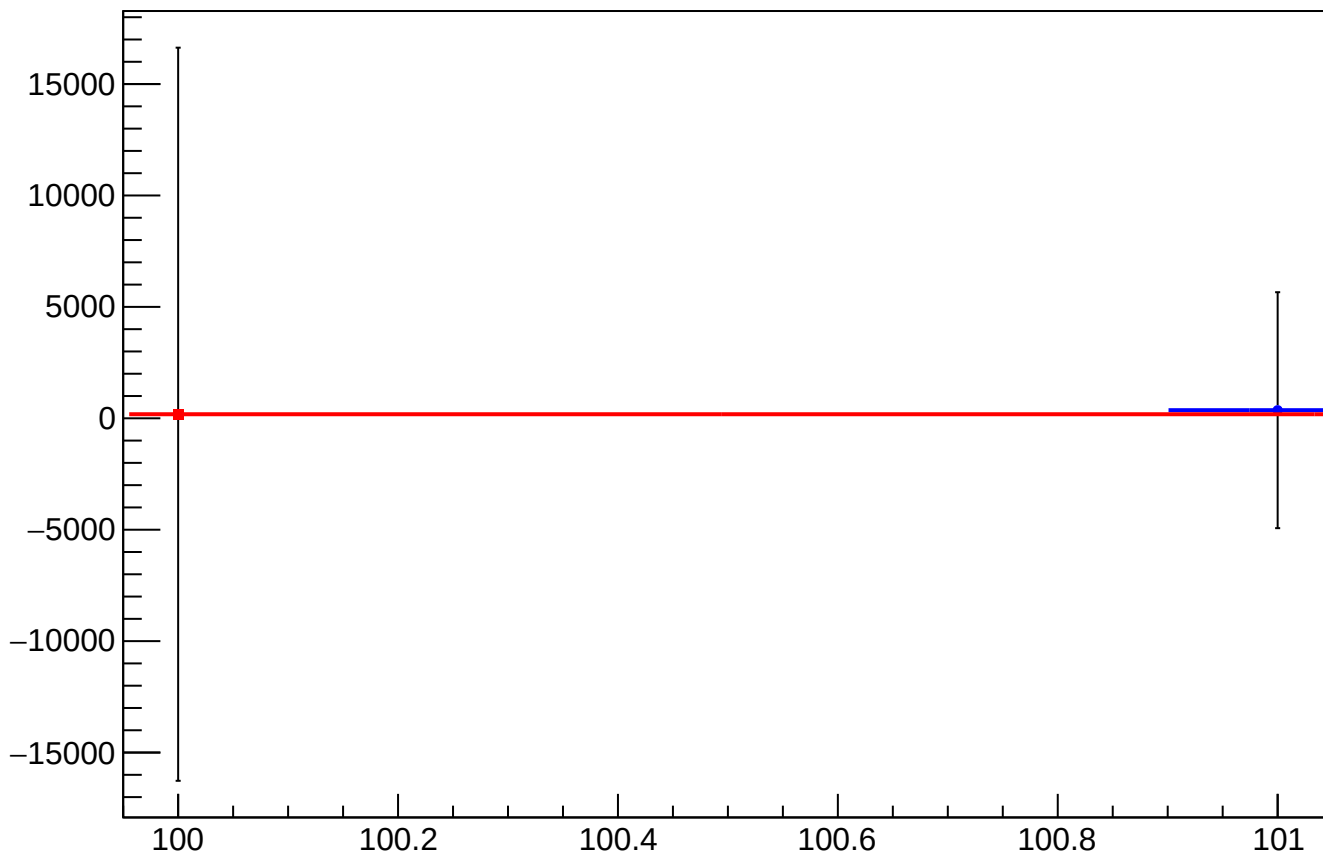
Right: 2695.964+/-2.233  $\chi^2/\text{NDF}$ : 1984.9/1

In: 2666.973+/-2.326  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2695.964+/-2.233  $\chi^2/\text{NDF}$ : 1984.9/1

asym\_atl1r2\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 364.308+/-5294.437  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 182.602+/-16450.661  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

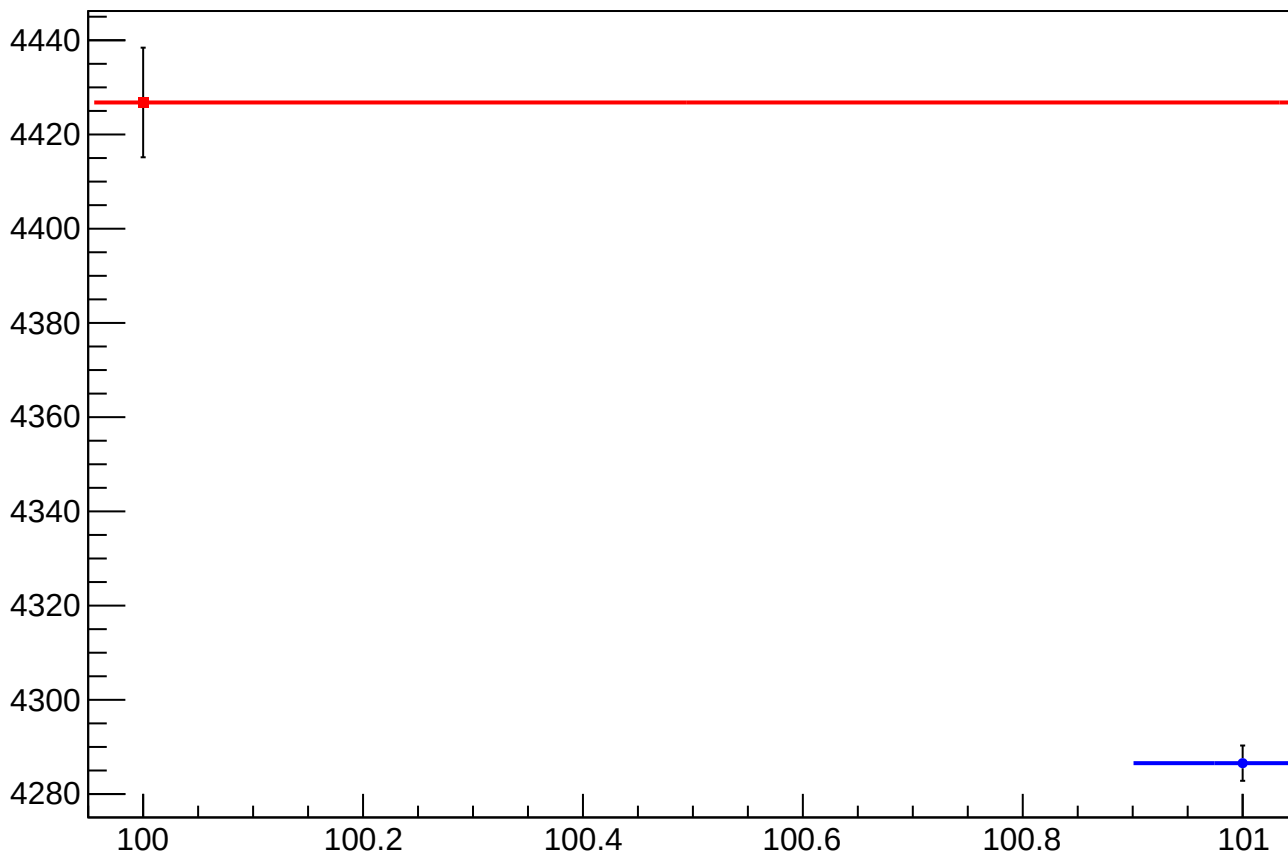
Right: 347.253+/-5039.855  $\chi^2/\text{NDF}$ : 0.0/1

In: 364.308+/-5294.437  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 347.253+/-5039.855  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4286.558 $\pm$ 3.744  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4426.795 $\pm$ 11.632  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4299.720 $\pm$ 3.564  $\chi^2$ /NDF: 131.7/1

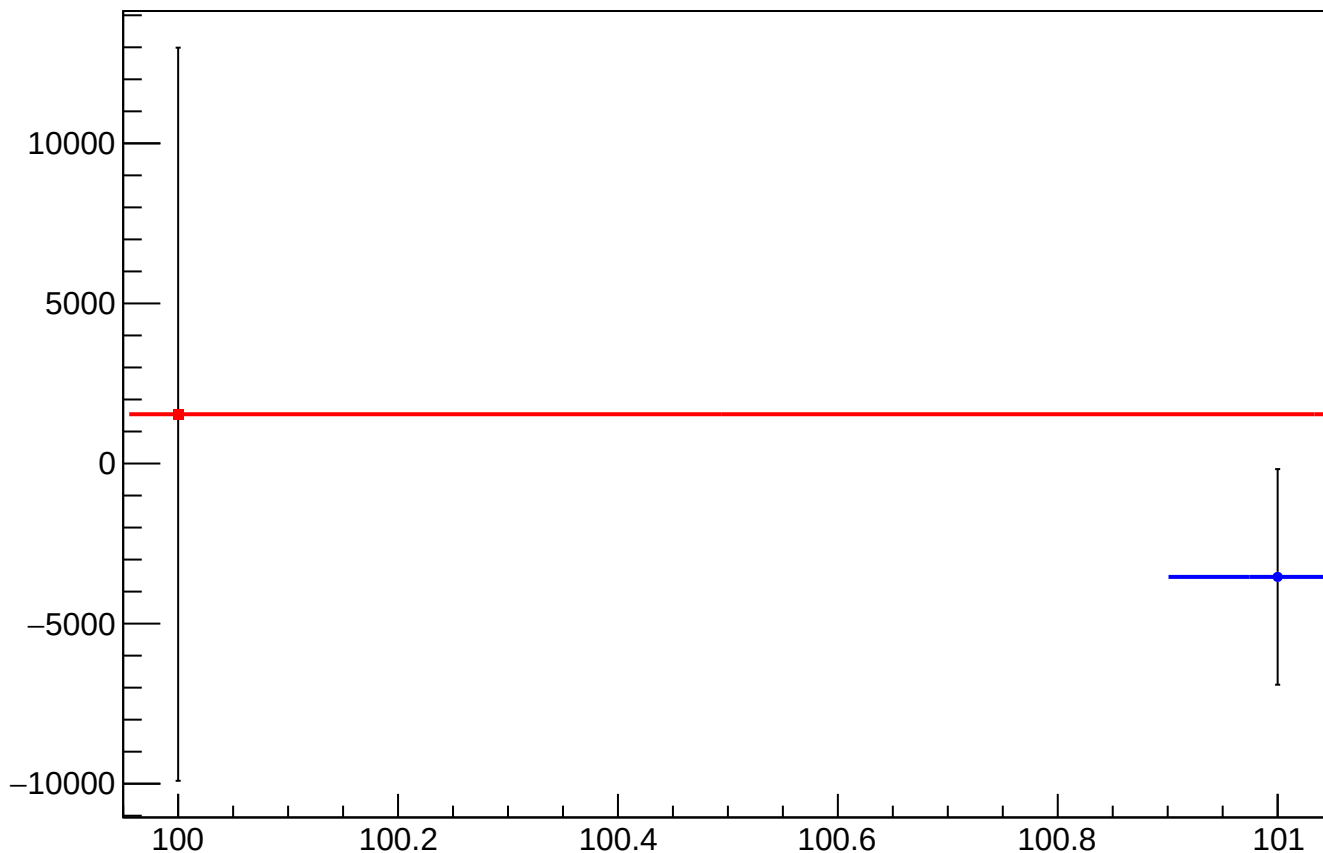
In: 4286.558 $\pm$ 3.744  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4299.720 $\pm$ 3.564  $\chi^2$ /NDF: 131.7/1



dit\_asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



Right In: -3541.162+/-3367.158  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1539.446+/-11448.864  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

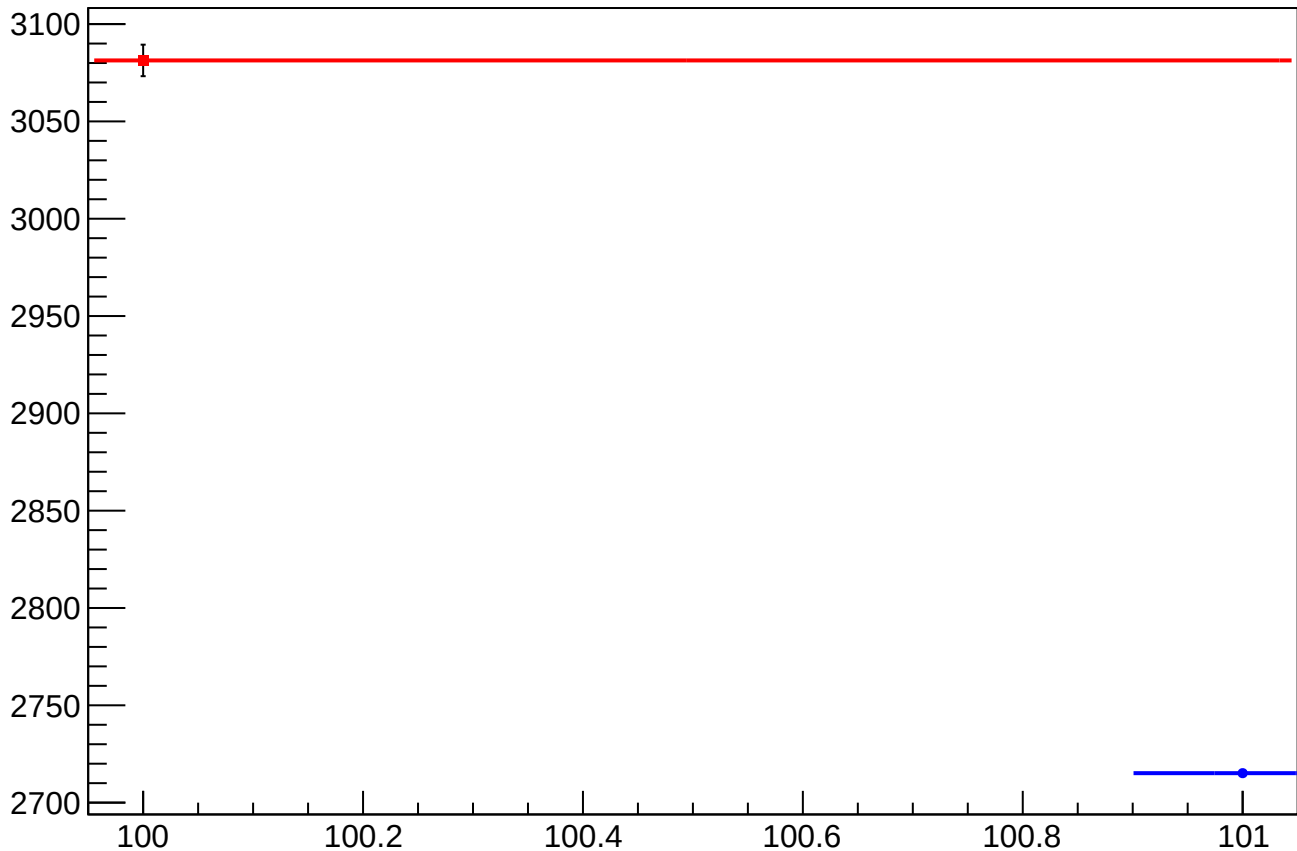
Right: -3136.689+/-3230.347  $\chi^2/\text{NDF}$ : 0.2/1

In: -3541.162+/-3367.158  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3136.689+/-3230.347  $\chi^2/\text{NDF}$ : 0.2/1

# dit\_asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



Right In: 2715.135 $\pm$ 2.381  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3081.328 $\pm$ 8.096  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

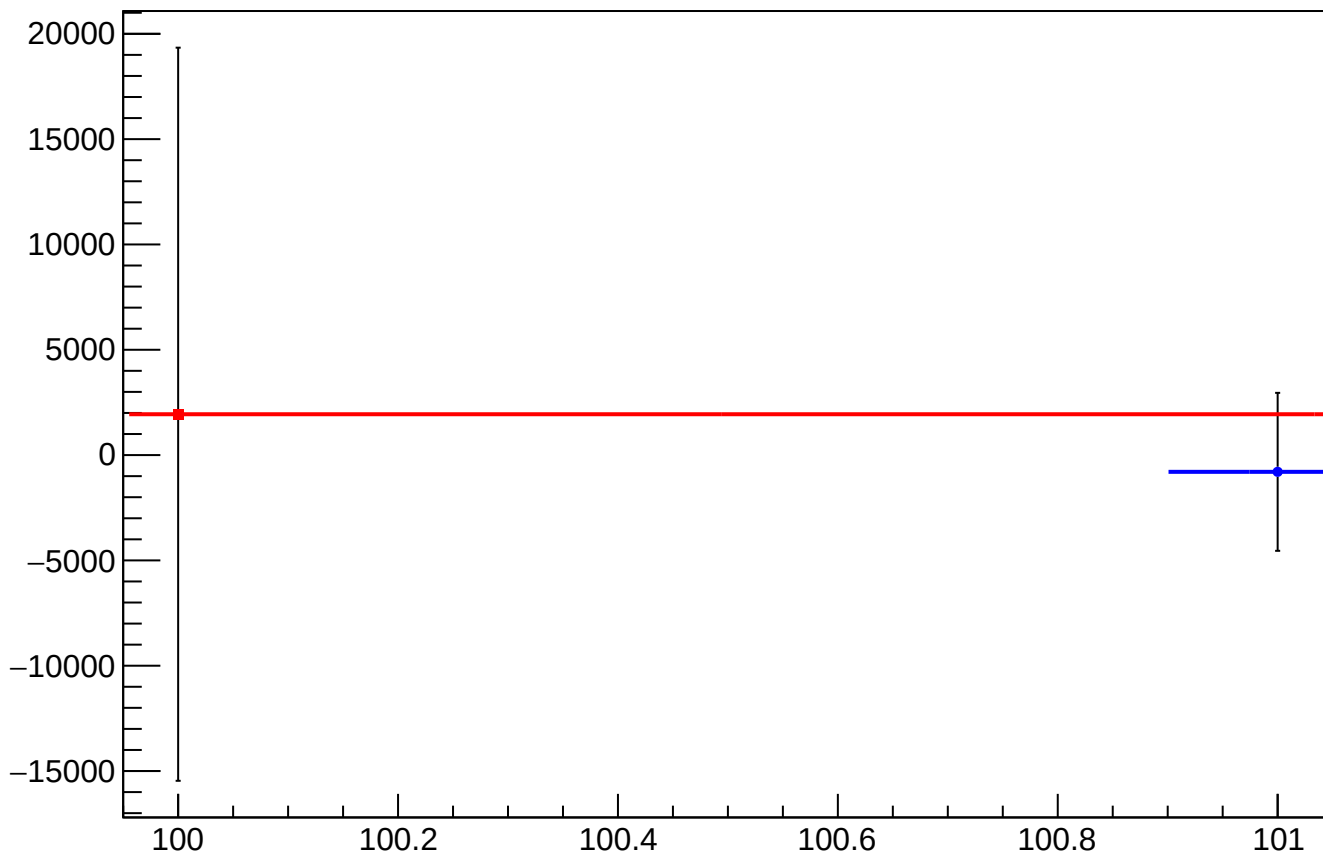
Right: 2744.288 $\pm$ 2.284  $\chi^2/\text{NDF}$ : 1883.2/1

In: 2715.135 $\pm$ 2.381  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2744.288 $\pm$ 2.284  $\chi^2/\text{NDF}$ : 1883.2/1

asym\_atl1r2\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -795.446 $\pm$ 3749.799  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1939.317 $\pm$ 17403.212  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

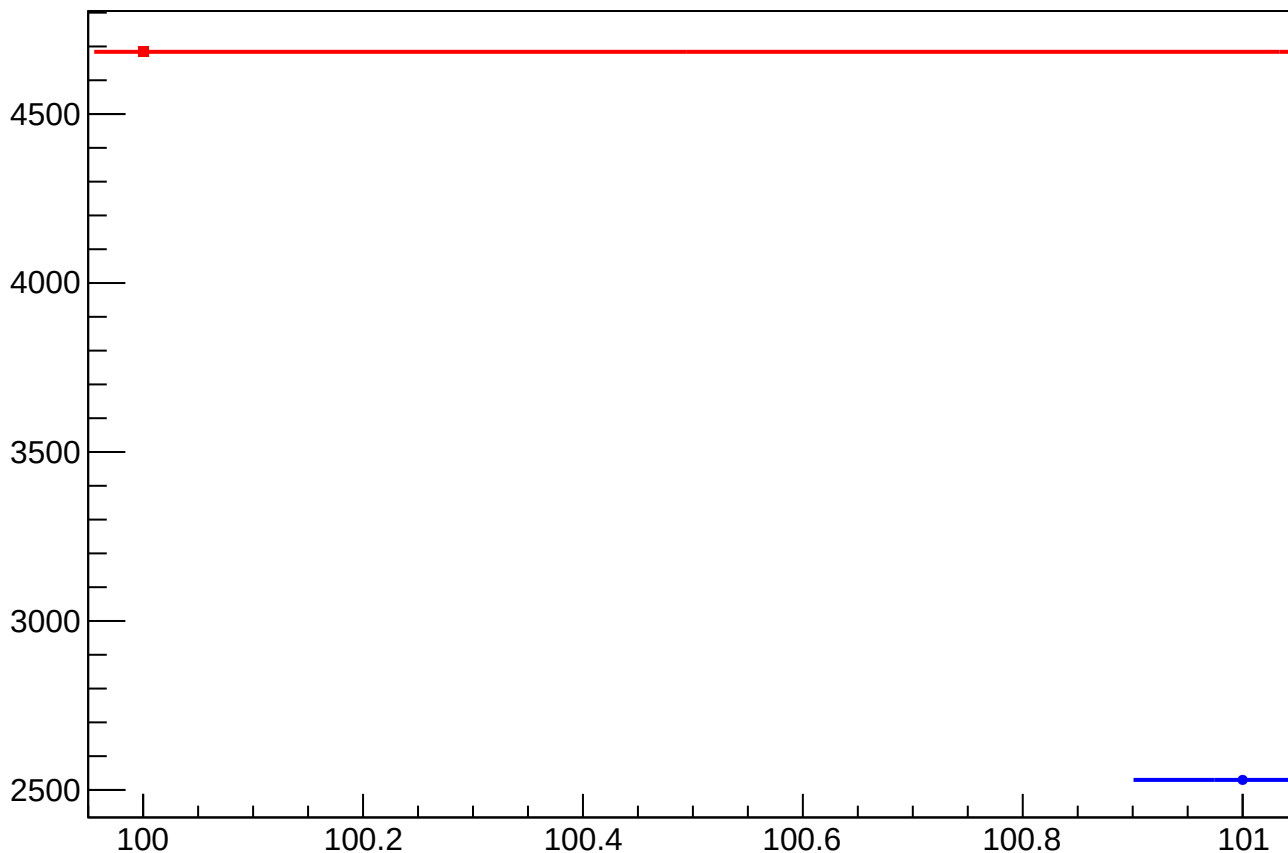
Right: -674.116 $\pm$ 3665.674  $\chi^2/\text{NDF}$ : 0.0/1

In: -795.446 $\pm$ 3749.799  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -674.116 $\pm$ 3665.674  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2529.738 $\pm$ 2.652  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4684.135 $\pm$ 12.306  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

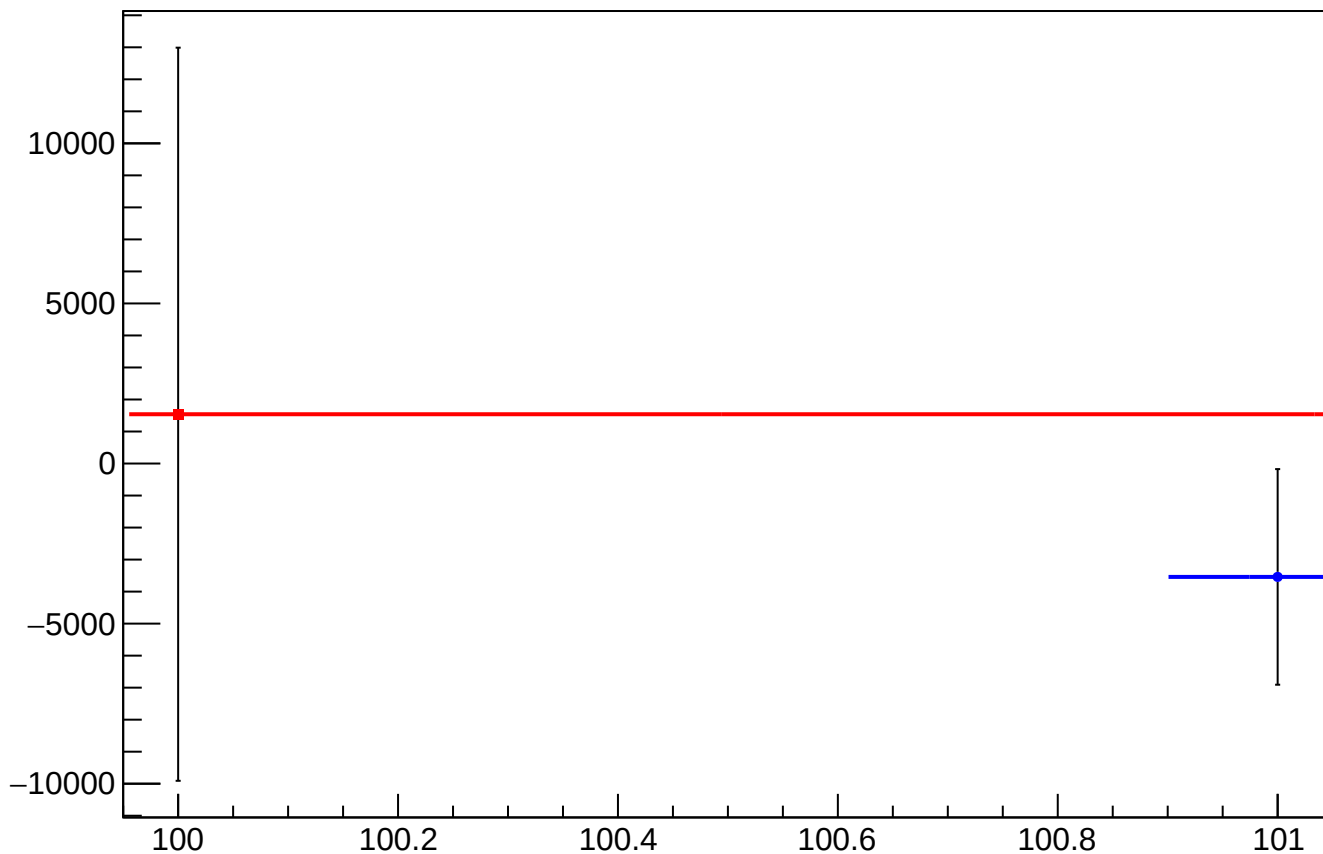
Right: 2625.319 $\pm$ 2.592  $\chi^2$ /NDF: 29289.7/1

In: 2529.738 $\pm$ 2.652  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2625.319 $\pm$ 2.592  $\chi^2$ /NDF: 29289.7/1

eigen\_dit\_asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



Right In: -3541.209+/-3367.158  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1539.624+/-11448.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

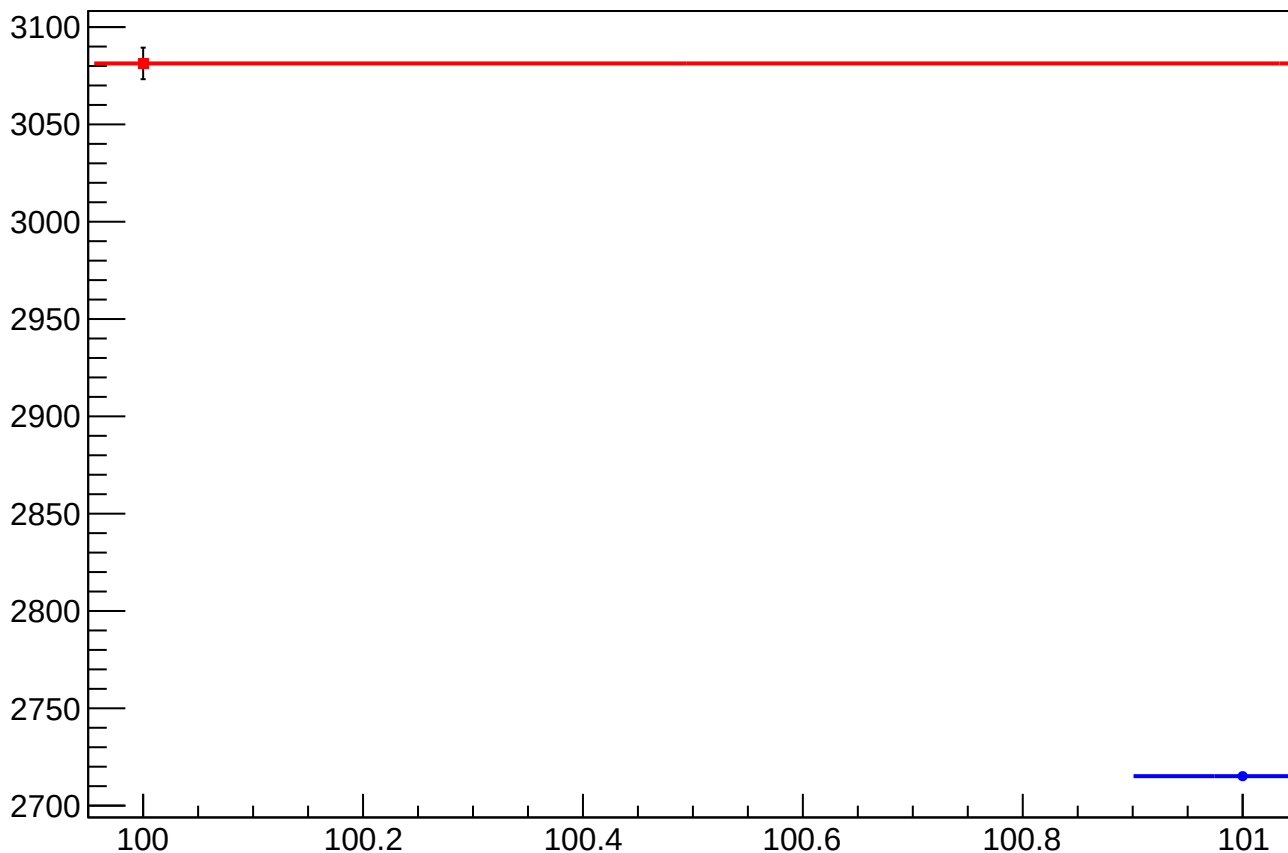
Right: -3136.719+/-3230.347  $\chi^2/\text{NDF}$ : 0.2/1

In: -3541.209+/-3367.158  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3136.719+/-3230.347  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_dit\_asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



Right In: 2715.135+/-2.381  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3081.329+/-8.096  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

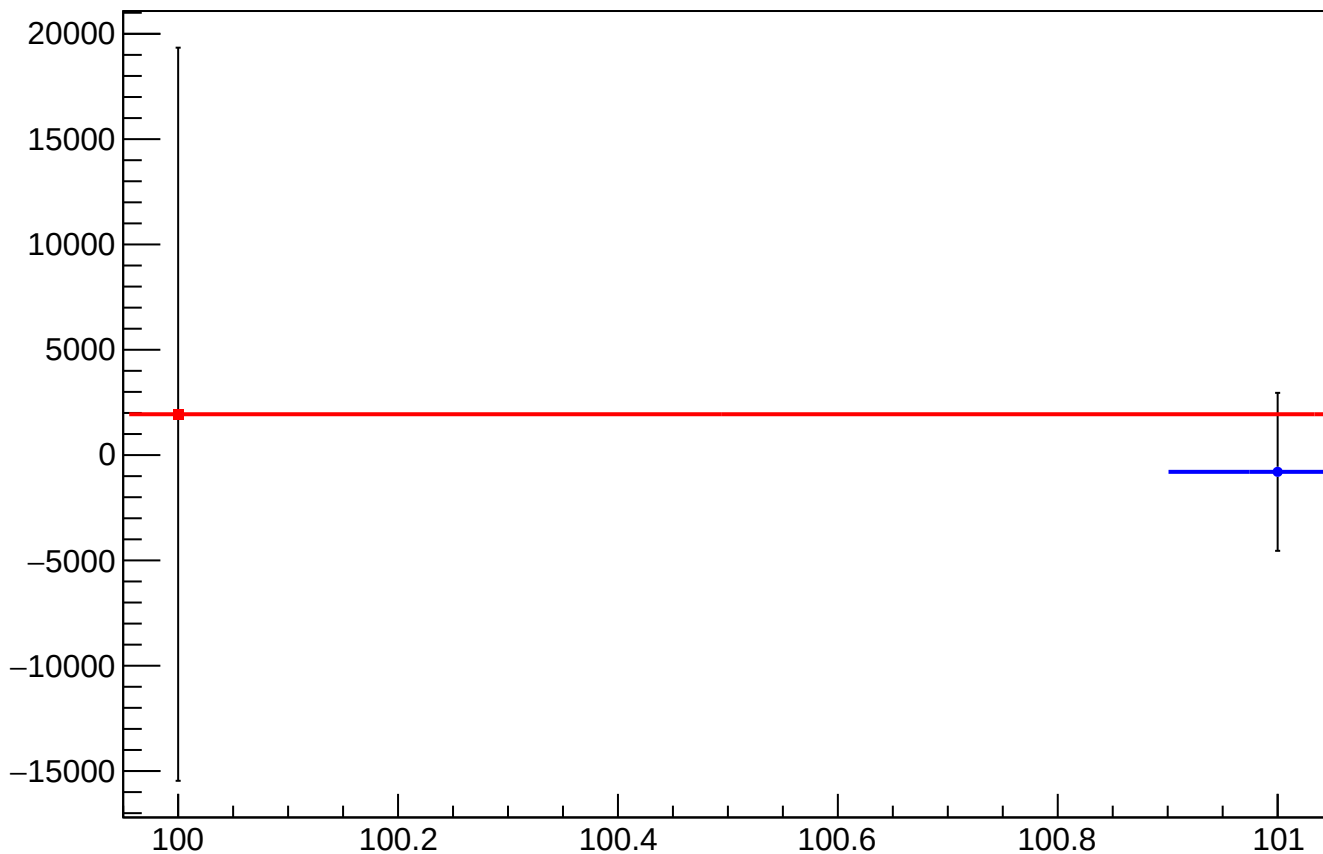
Right: 2744.288+/-2.284  $\chi^2/\text{NDF}$ : 1883.2/1

In: 2715.135+/-2.381  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2744.288+/-2.284  $\chi^2/\text{NDF}$ : 1883.2/1

asym\_atl1r2\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -795.477+/-3749.796  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1939.494+/-17403.155  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

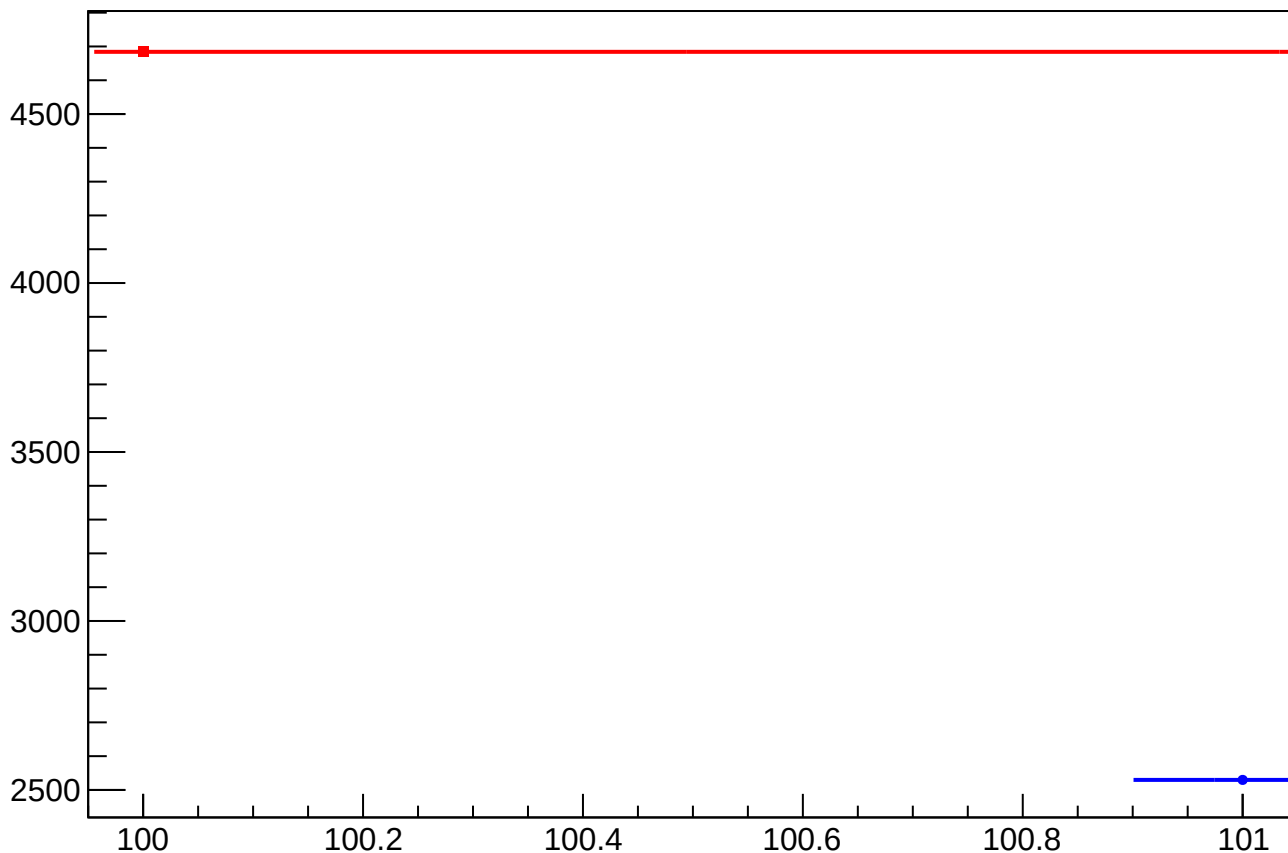
Right: -674.137+/-3665.671  $\chi^2/\text{NDF}$ : 0.0/1

In: -795.477+/-3749.796  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -674.137+/-3665.671  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2529.737 $\pm$ 2.652  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4684.120 $\pm$ 12.306  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2625.319 $\pm$ 2.592  $\chi^2$ /NDF: 29289.5/1

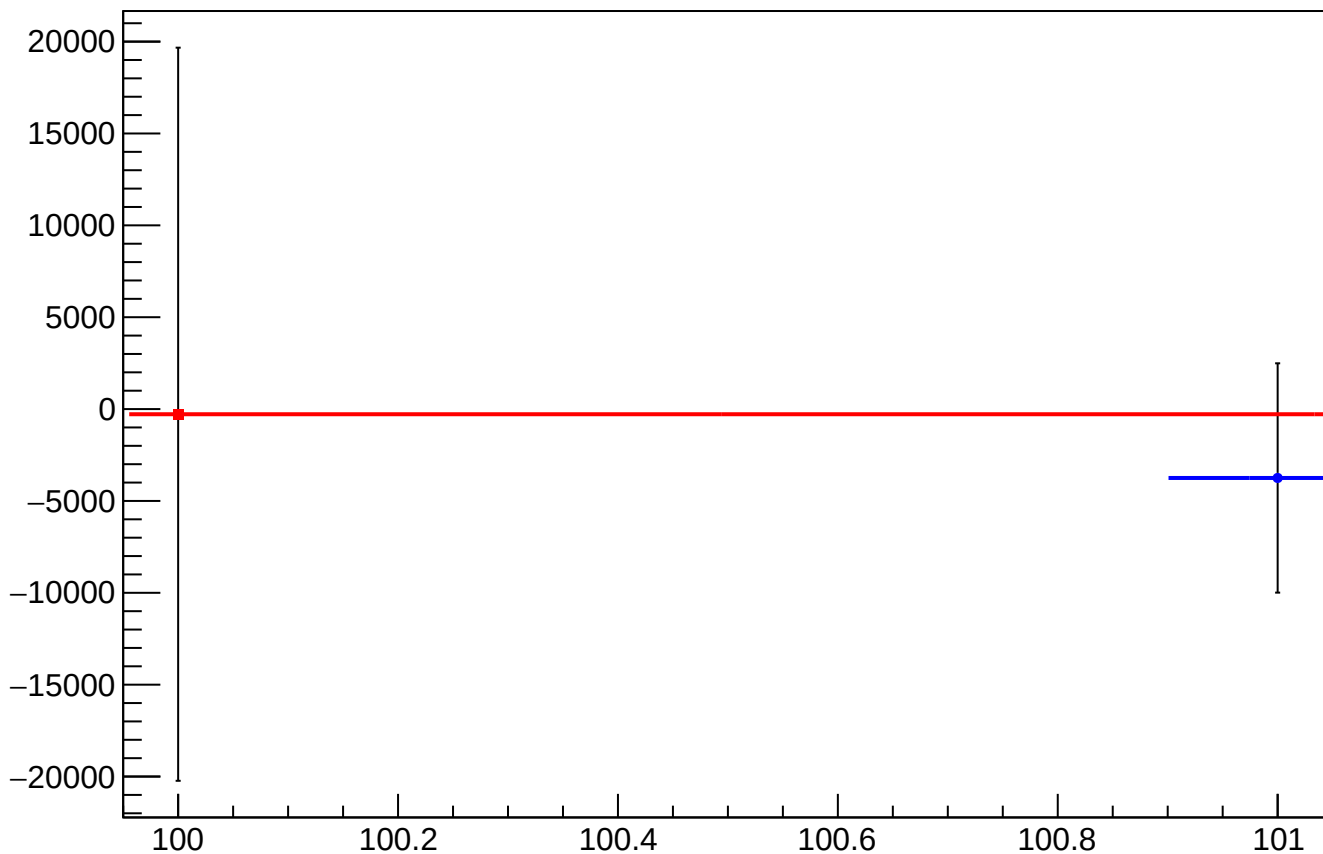
In: 2529.737 $\pm$ 2.652  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2625.319 $\pm$ 2.592  $\chi^2$ /NDF: 29289.5/1



# asym\_atl1r2\_avg\_mean vs Slug, Sign Corrected



Right In: -3749.510+/-6240.718  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -280.661+/-19950.908  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

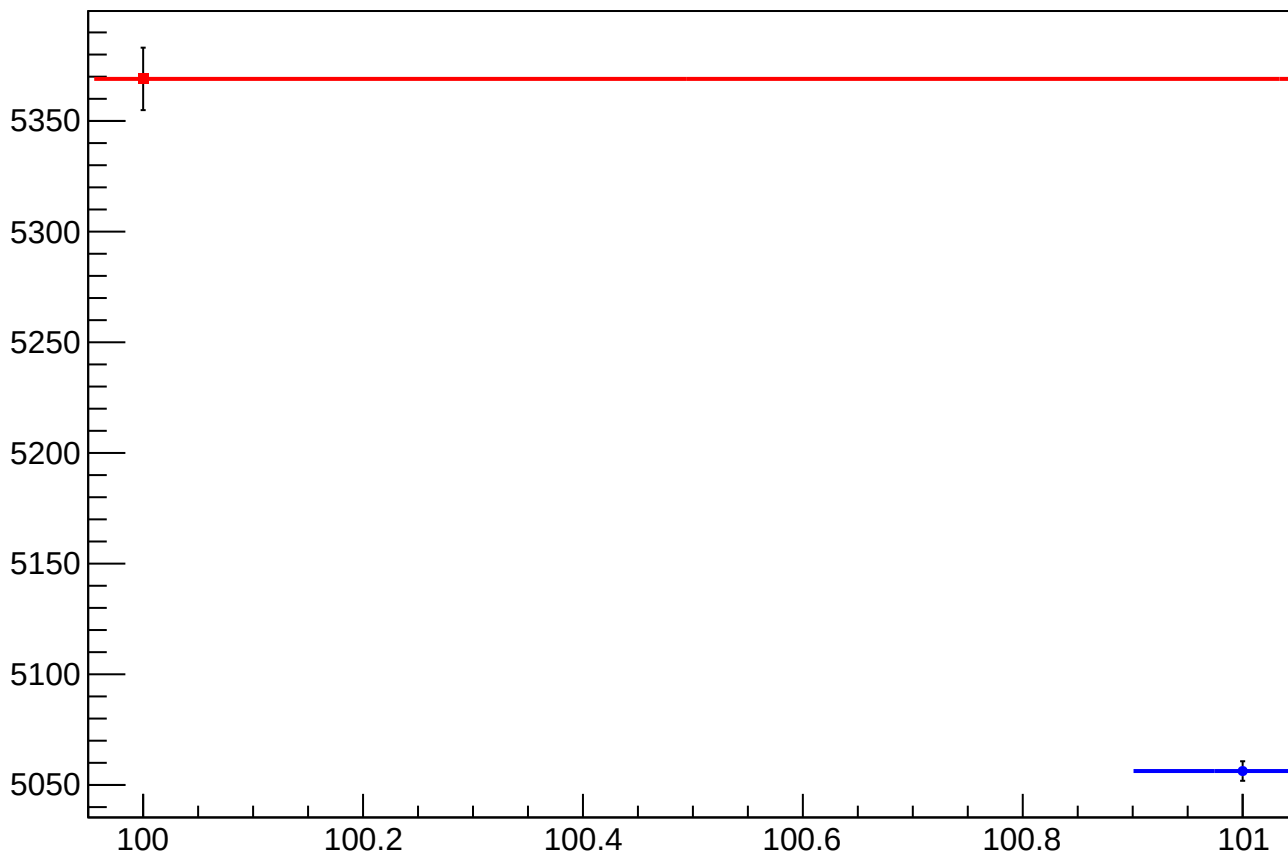
Right: -3440.347+/-5956.125  $\chi^2/\text{NDF}$ : 0.0/1

In: -3749.510+/-6240.718  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3440.347+/-5956.125  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_atl1r2\_avg\_rms vs Slug, Sign Corrected



Right In: 5056.295 $\pm$ 4.413  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5369.001 $\pm$ 14.107  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

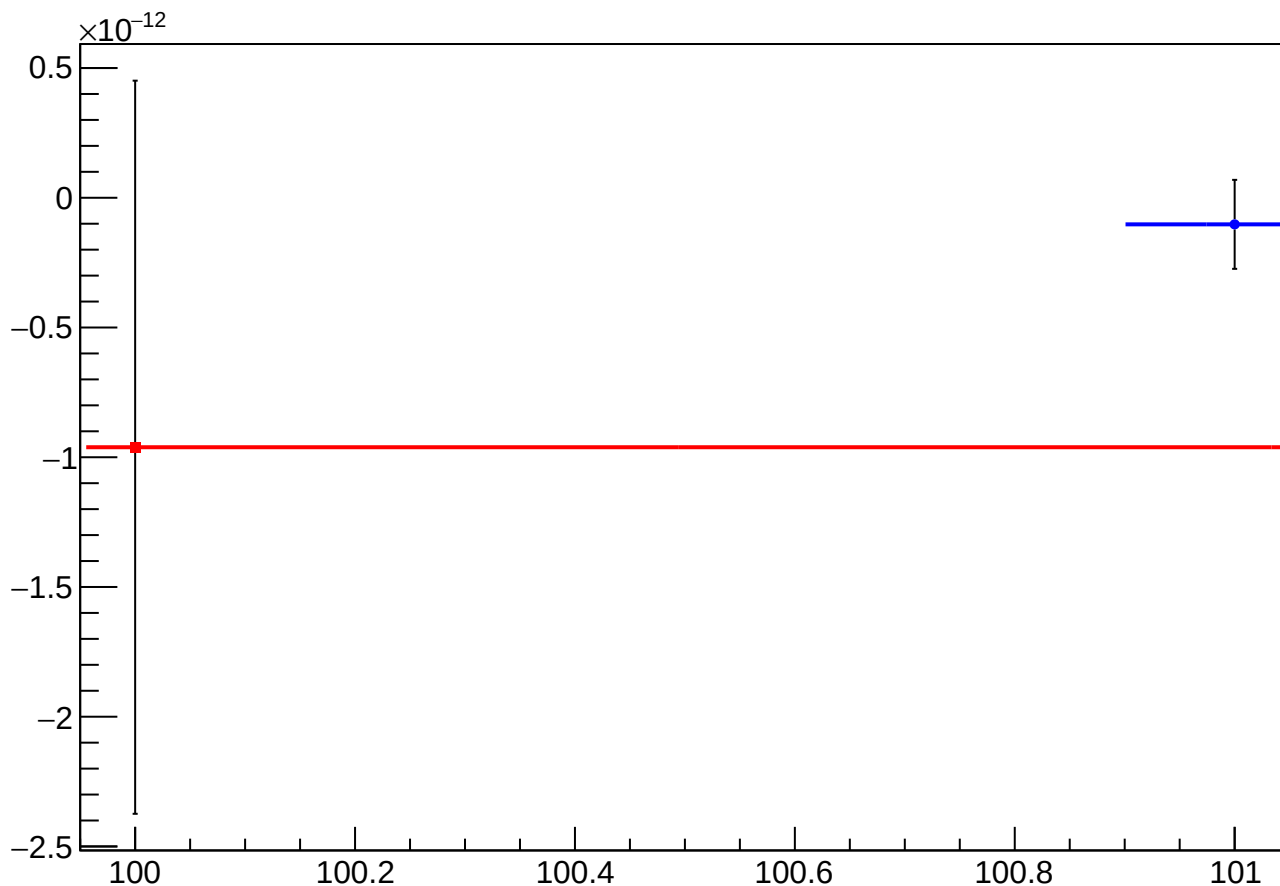
Right: 5084.165 $\pm$ 4.212  $\chi^2/\text{NDF}$ : 447.5/1

In: 5056.295 $\pm$ 4.413  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5084.165 $\pm$ 4.212  $\chi^2/\text{NDF}$ : 447.5/1

asym\_atl1r2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

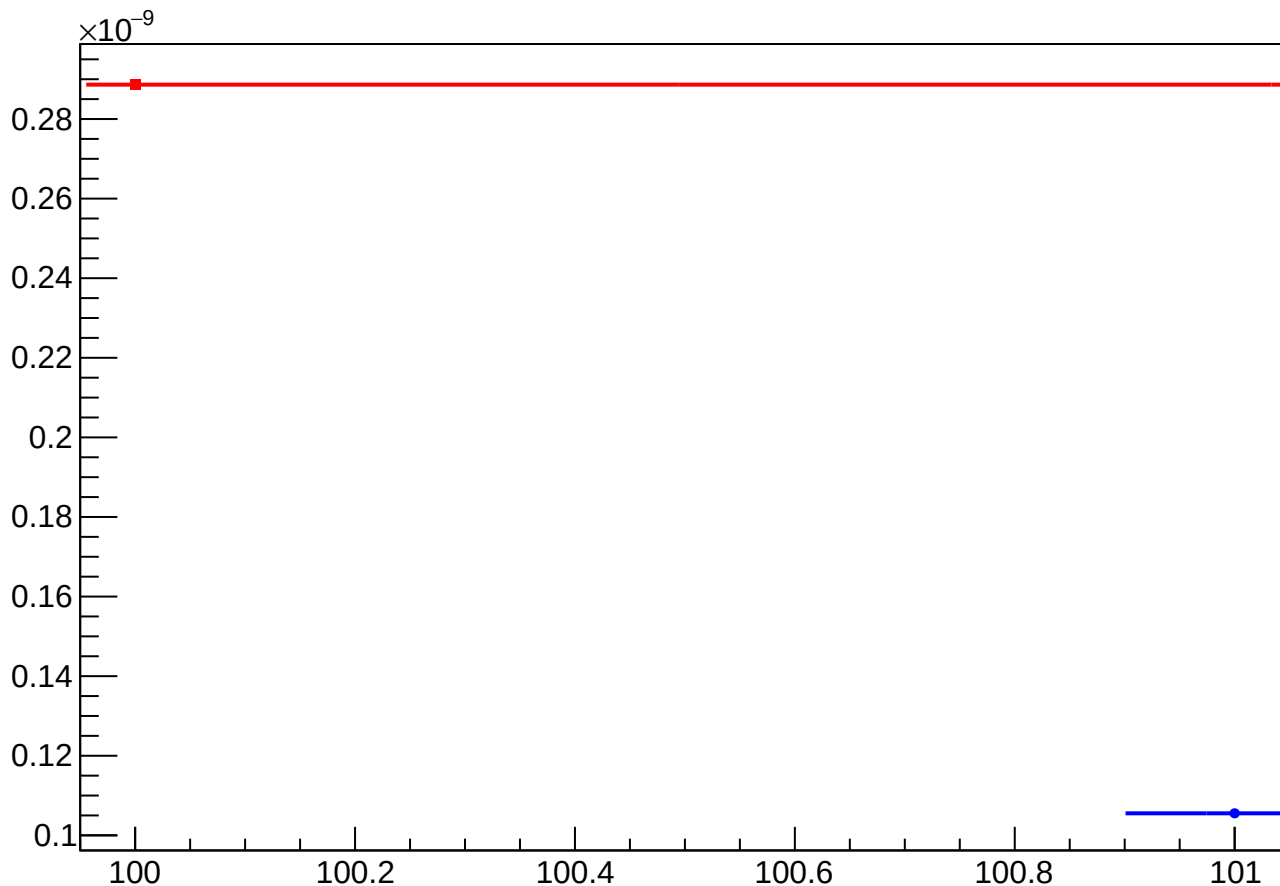
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atl1r2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

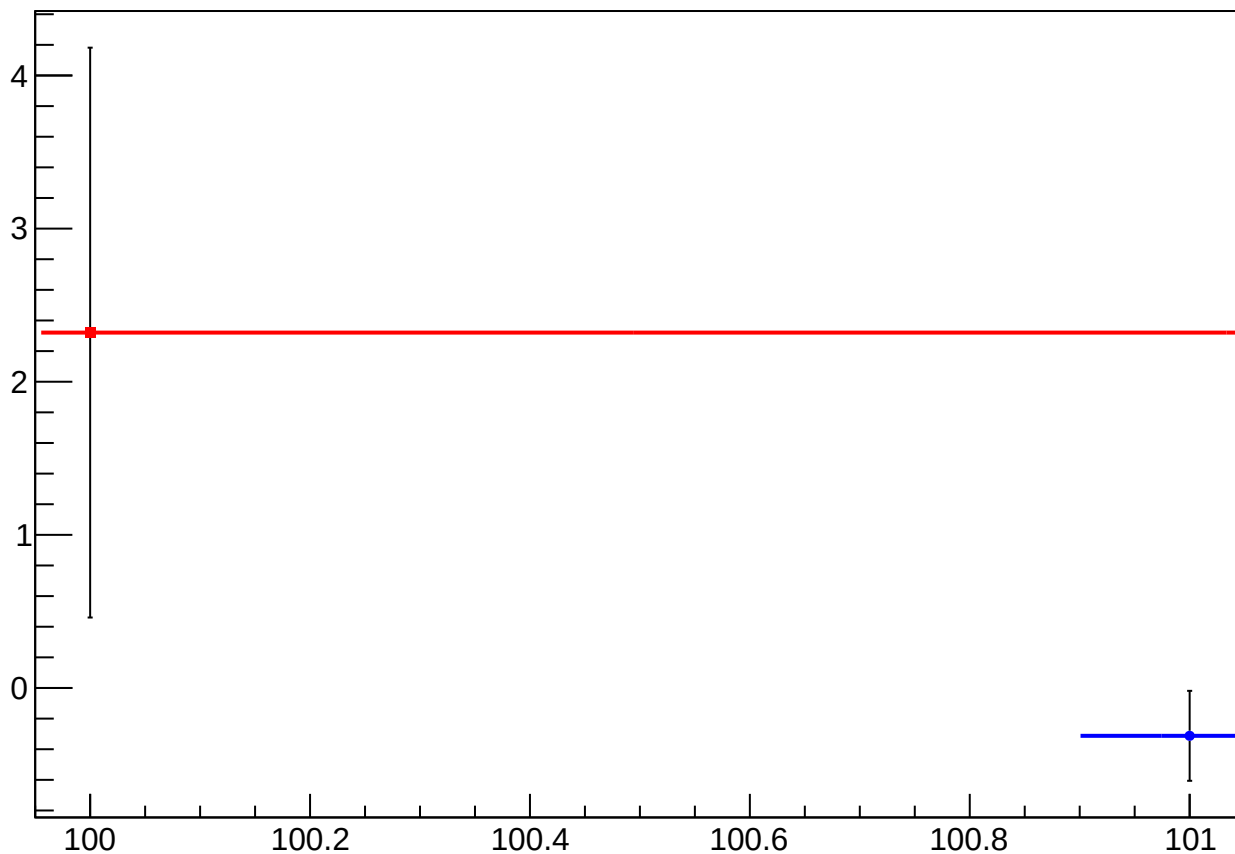
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33109.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33109.7/1

asym\_atl1r2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.312 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.321 $\pm$ 1.861  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

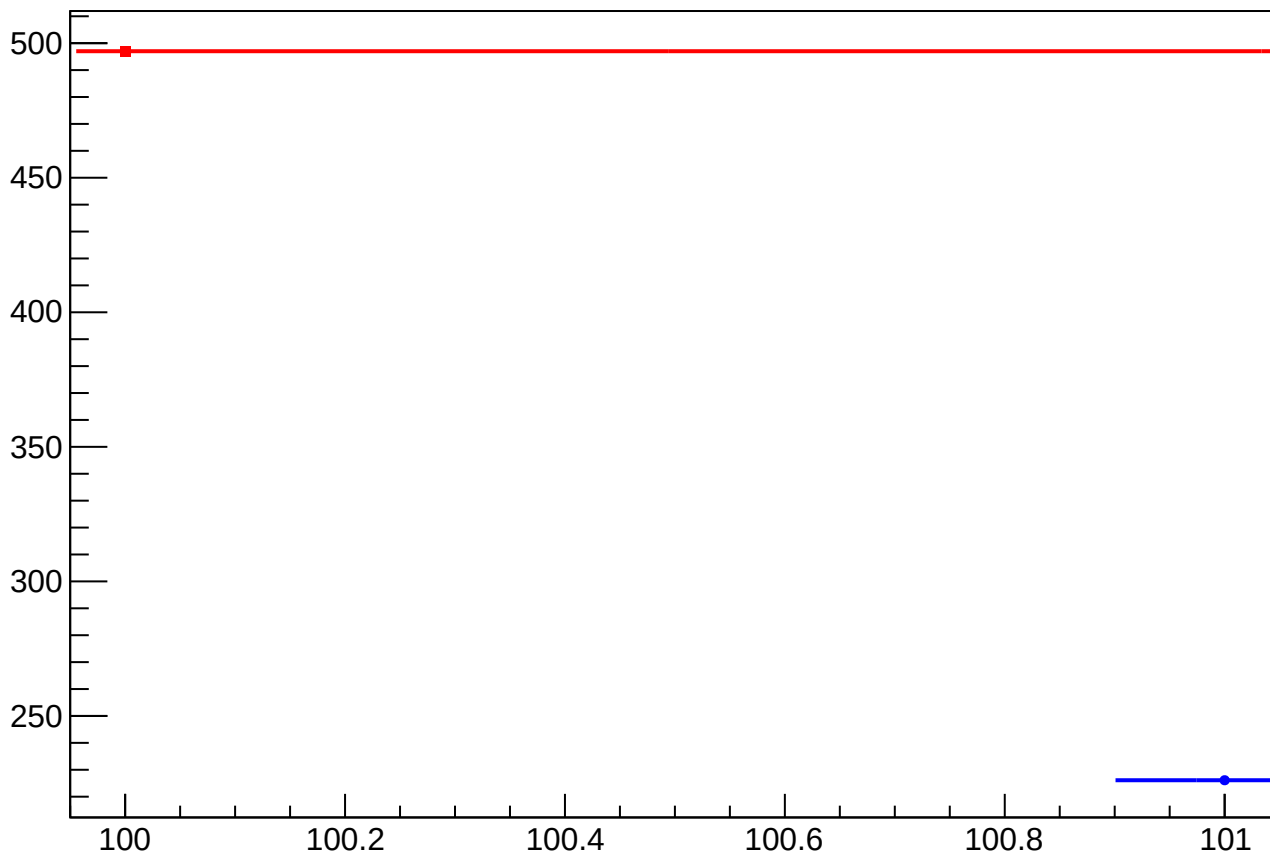
Right: -0.248 $\pm$ 0.290  $\chi^2$ /NDF: 2.0/1

In: -0.312 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.248 $\pm$ 0.290  $\chi^2$ /NDF: 2.0/1

asym\_atl1r2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 226.110 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 497.015 $\pm$ 1.316  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

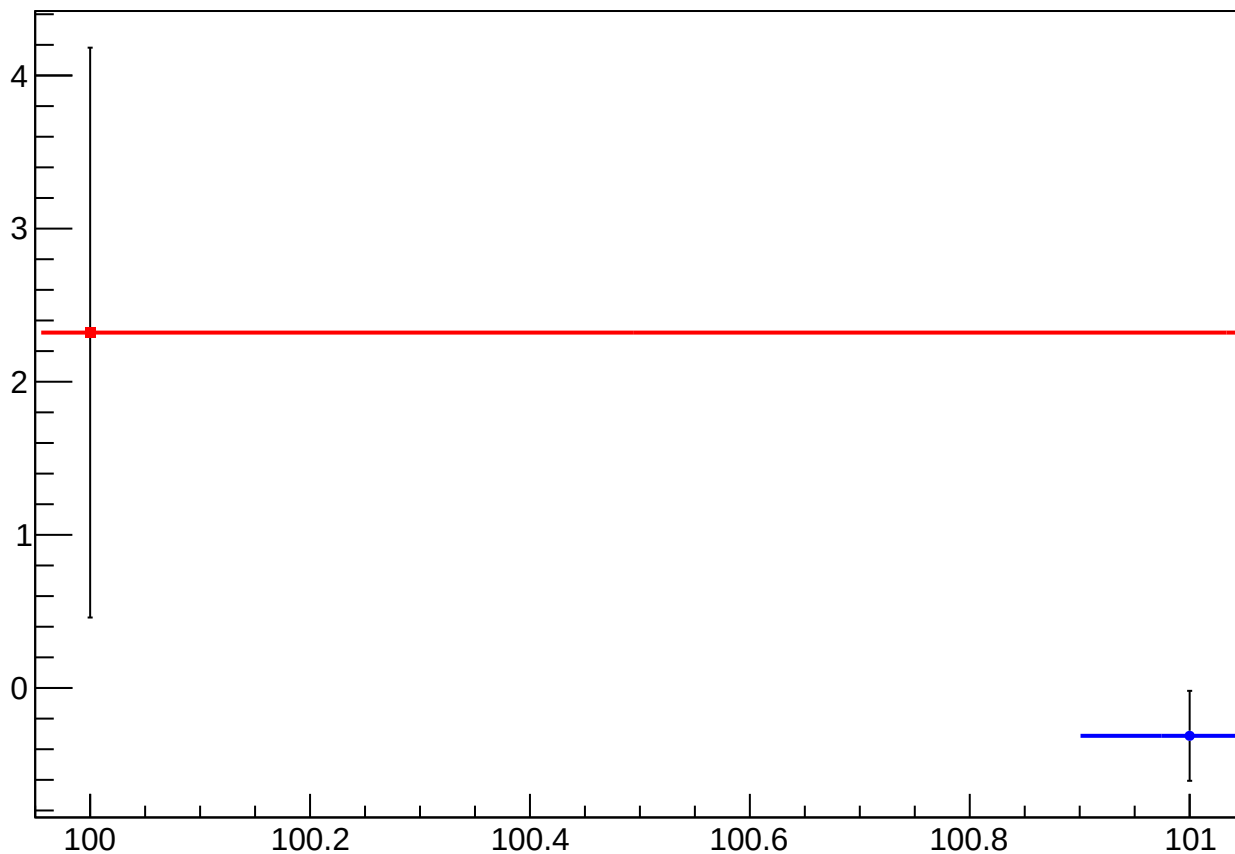
Right: 232.695 $\pm$ 0.205  $\chi^2$ /NDF: 41362.7/1

In: 226.110 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 232.695 $\pm$ 0.205  $\chi^2$ /NDF: 41362.7/1

asym\_atl1r2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.312 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.321 $\pm$ 1.861  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

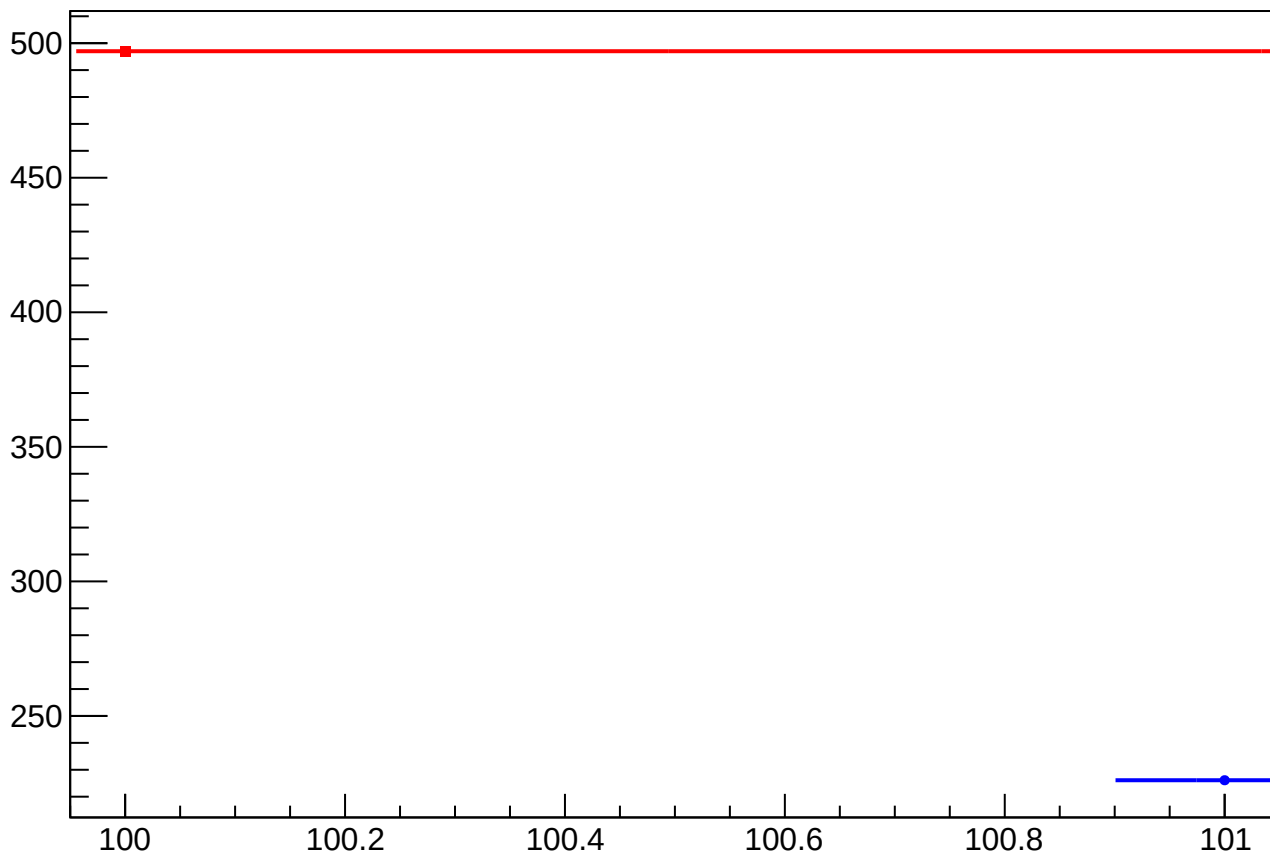
Right: -0.248 $\pm$ 0.290  $\chi^2$ /NDF: 2.0/1

In: -0.312 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.248 $\pm$ 0.290  $\chi^2$ /NDF: 2.0/1

asym\_atl1r2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 226.110 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 497.015 $\pm$ 1.316  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 232.695 $\pm$ 0.205  $\chi^2$ /NDF: 41362.7/1

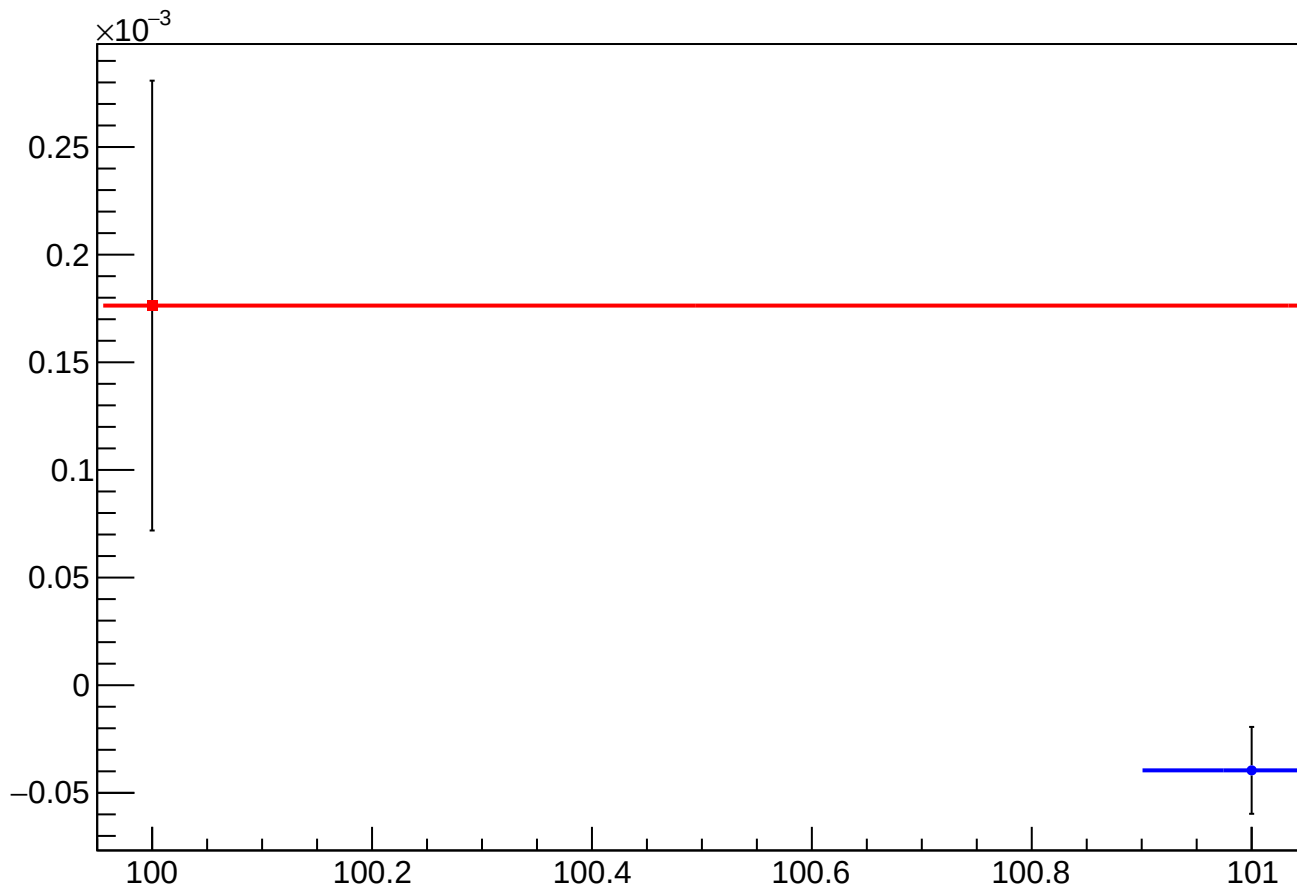
In: 226.110 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 232.695 $\pm$ 0.205  $\chi^2$ /NDF: 41362.7/1



asym\_atl1r2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

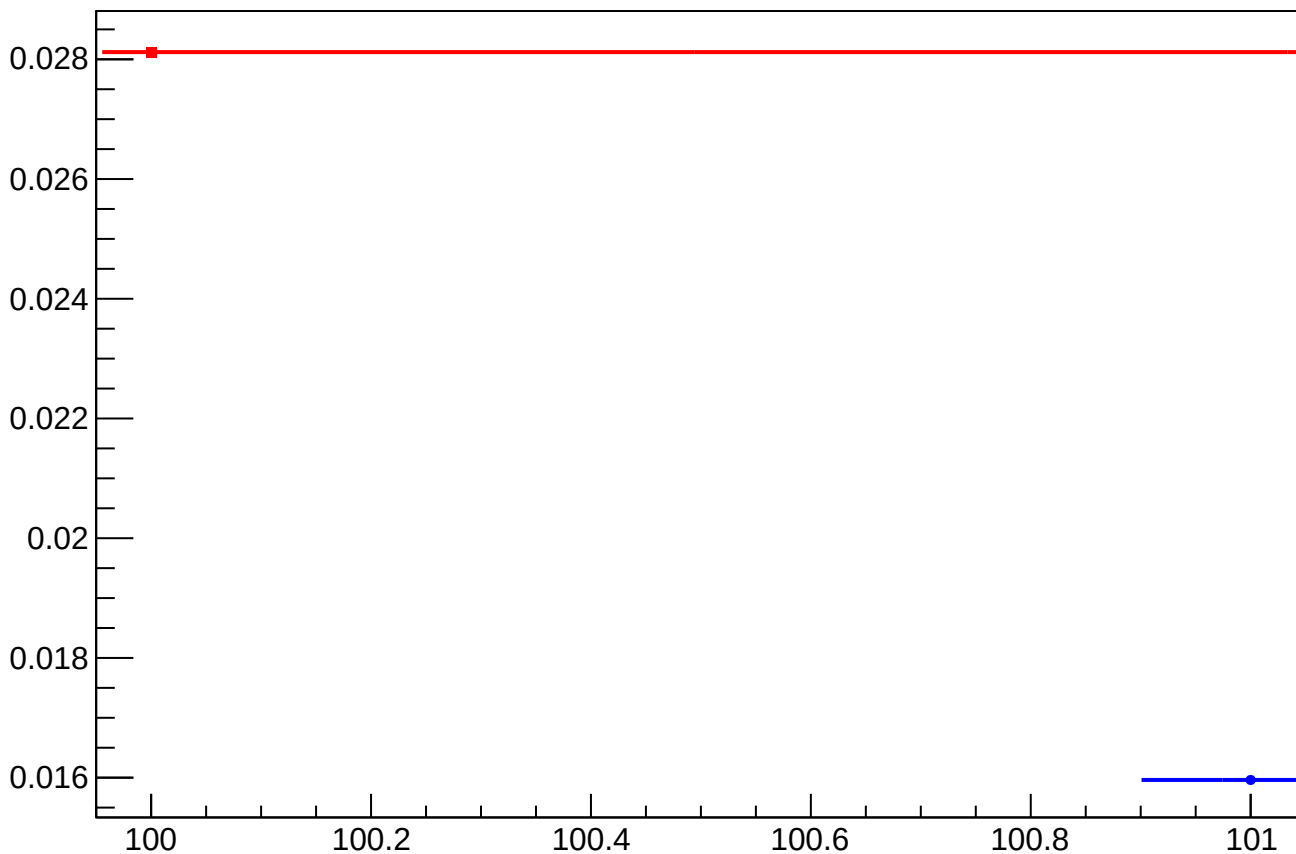
Right: -0.000+/-0.000  $\chi^2$ /NDF: 4.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 4.1/1

asym\_atl1r2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.028+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

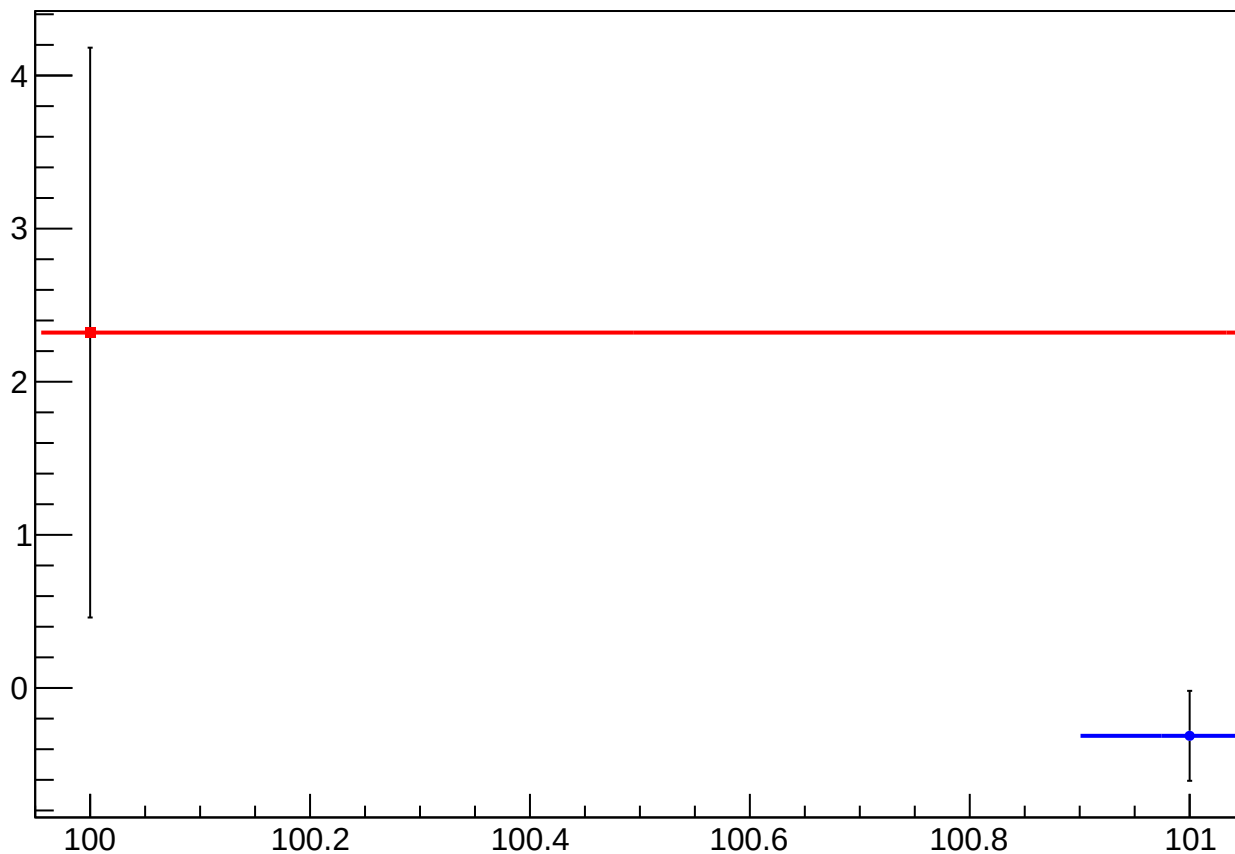
Right: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 26114.8/1

In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 26114.8/1

asym\_atl1r2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.313+/-0.294  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.321+/-1.861  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

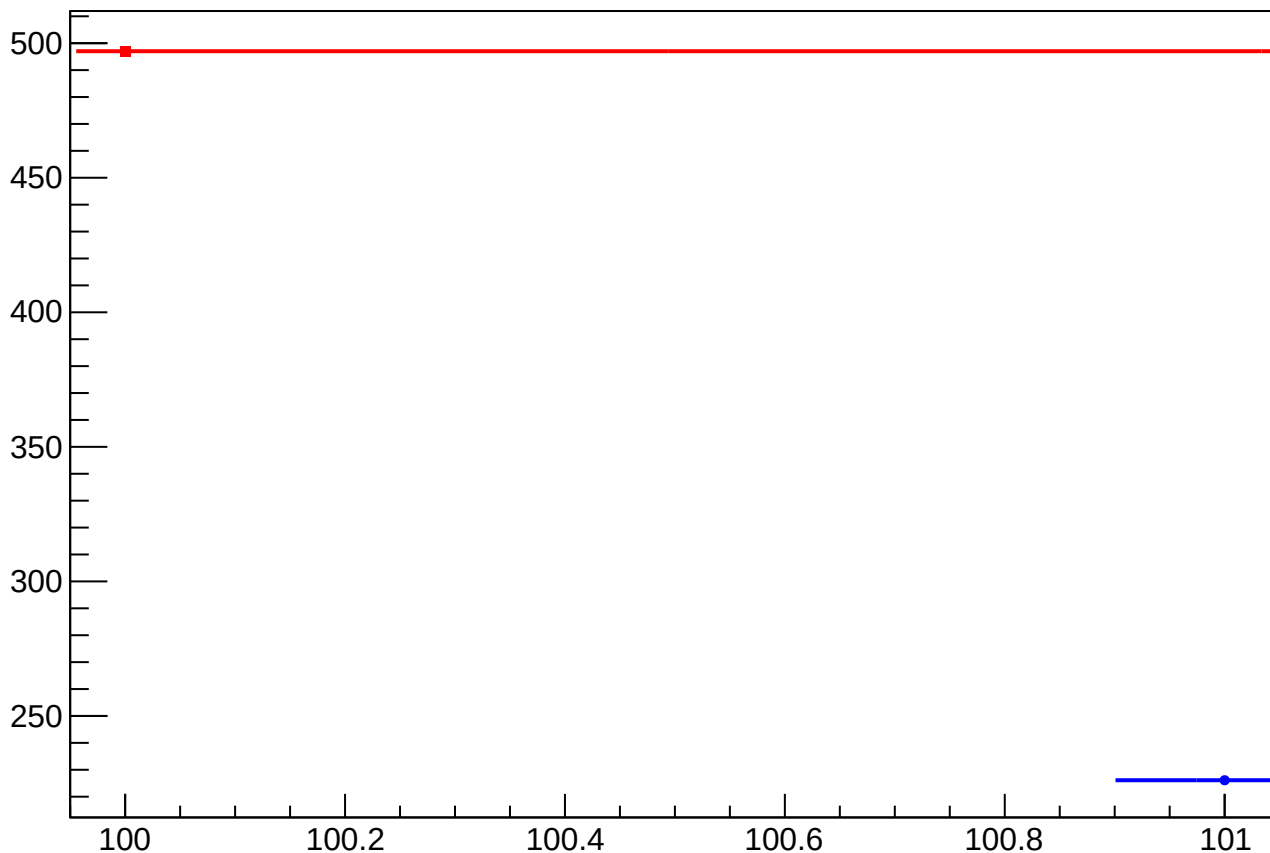
Right: -0.249+/-0.290  $\chi^2/\text{NDF}$ : 2.0/1

In: -0.313+/-0.294  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.249+/-0.290  $\chi^2/\text{NDF}$ : 2.0/1

asym\_atl1r2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 226.110 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 497.021 $\pm$ 1.316  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

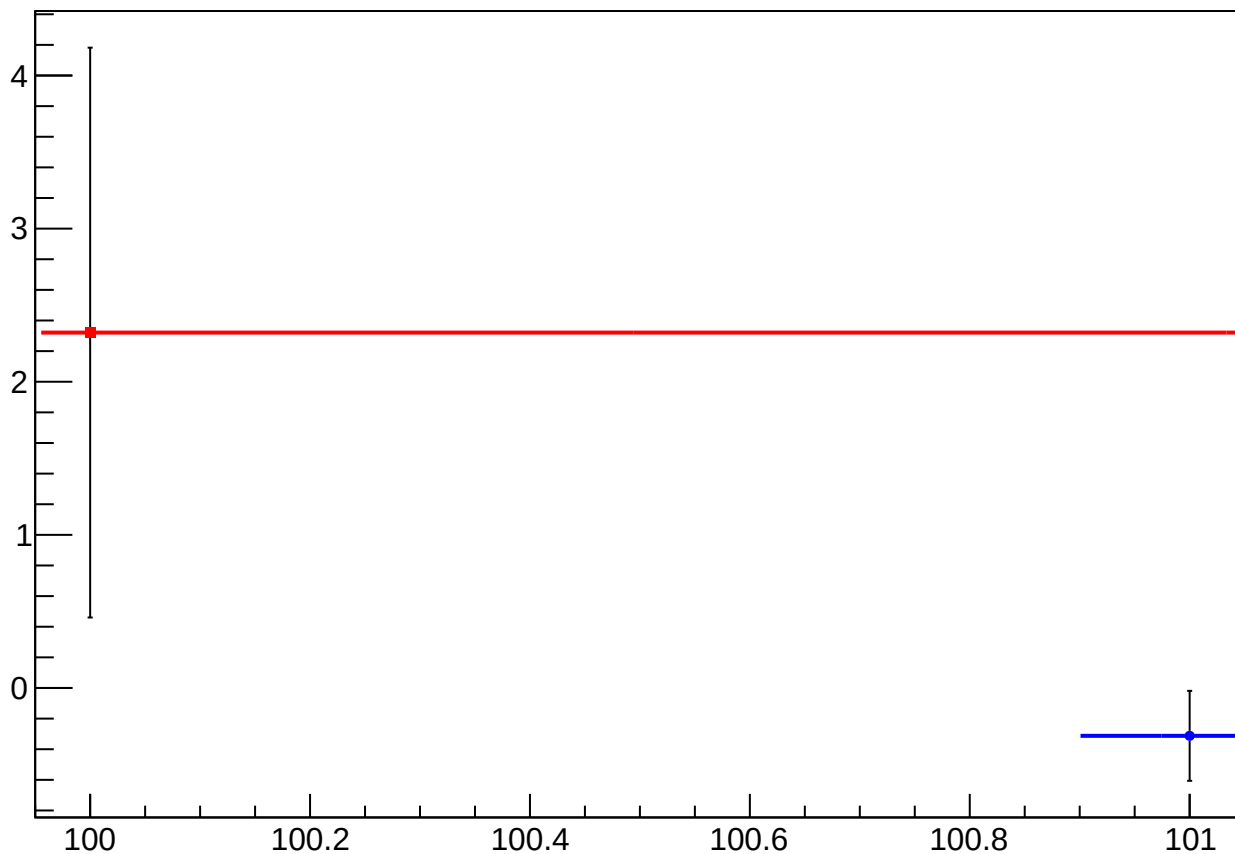
Right: 232.696 $\pm$ 0.205  $\chi^2$ /NDF: 41363.5/1

In: 226.110 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 232.696 $\pm$ 0.205  $\chi^2$ /NDF: 41363.5/1

asym\_atl1r2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.313 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.321 $\pm$ 1.861  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

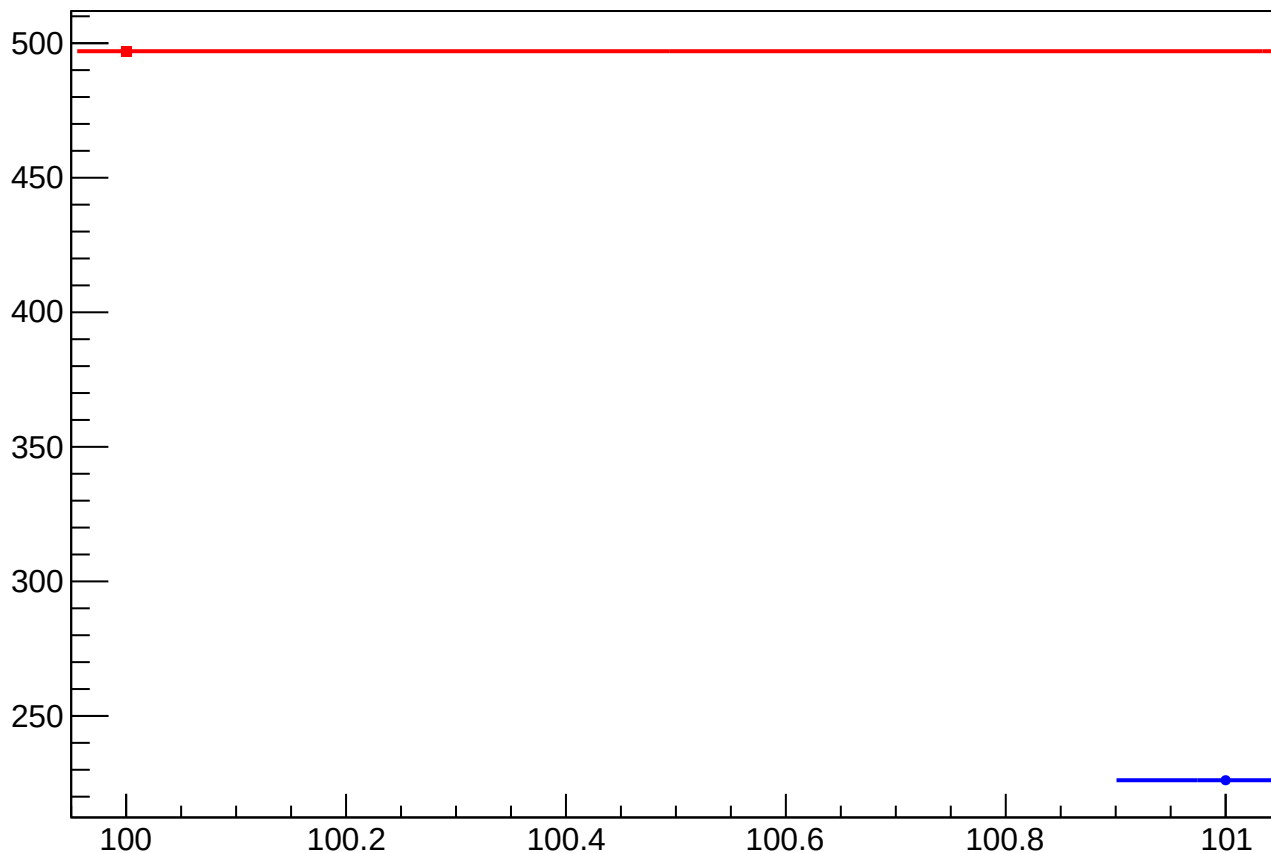
Right: -0.249 $\pm$ 0.290  $\chi^2$ /NDF: 2.0/1

In: -0.313 $\pm$ 0.294  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.249 $\pm$ 0.290  $\chi^2$ /NDF: 2.0/1

asym\_atl1r2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 226.110 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 497.021 $\pm$ 1.316  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

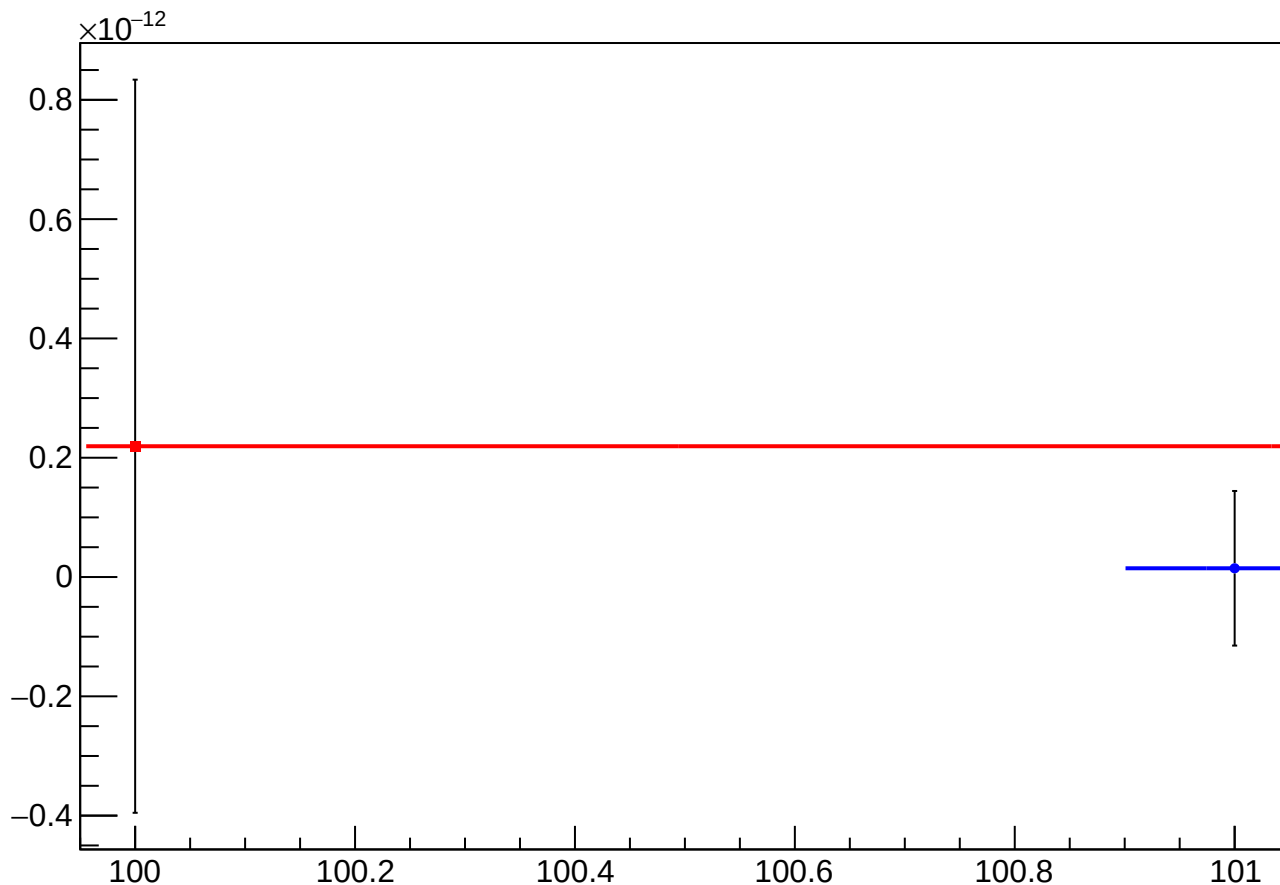
Right: 232.696 $\pm$ 0.205  $\chi^2$ /NDF: 41363.5/1

In: 226.110 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 232.696 $\pm$ 0.205  $\chi^2$ /NDF: 41363.5/1

asym\_atl1r2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

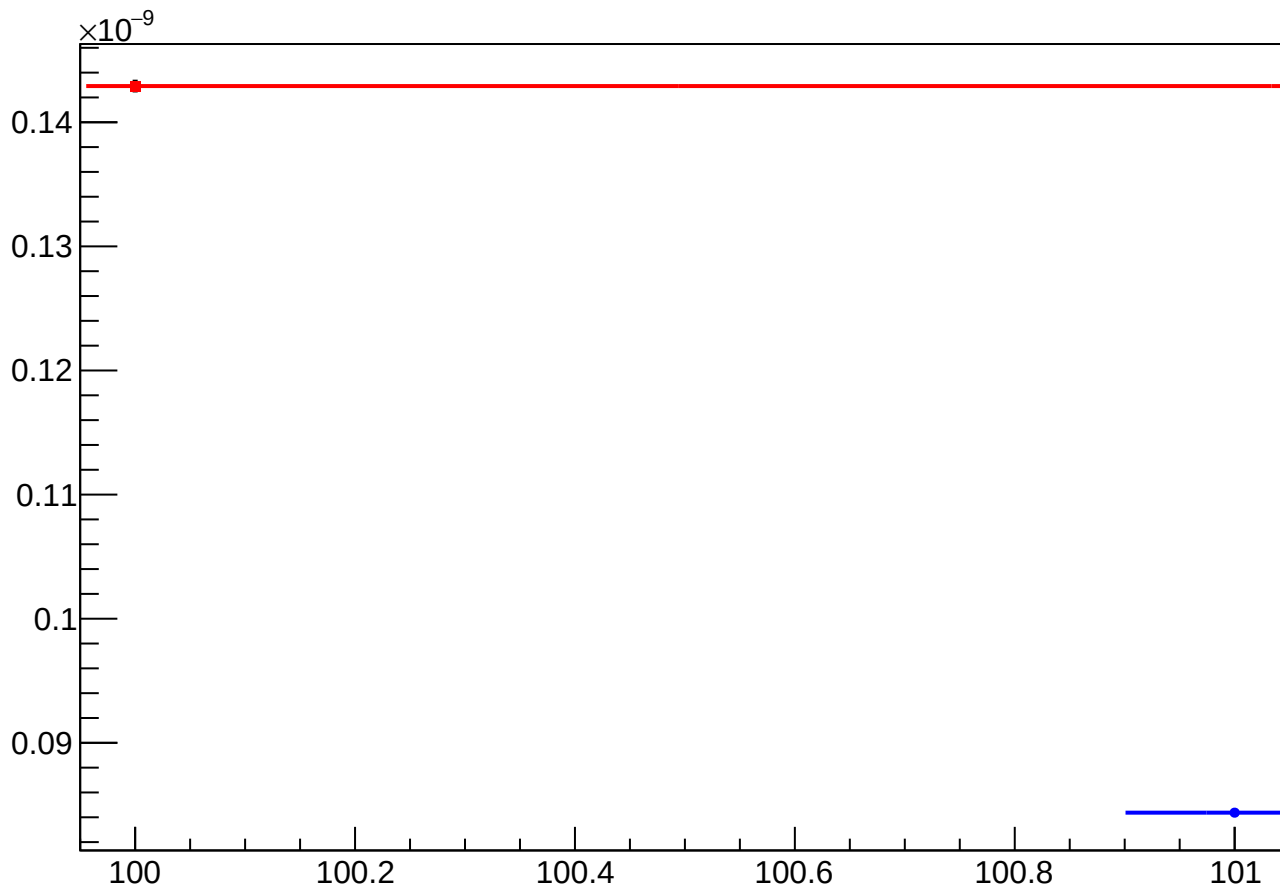
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_atl1r2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17377.9/1

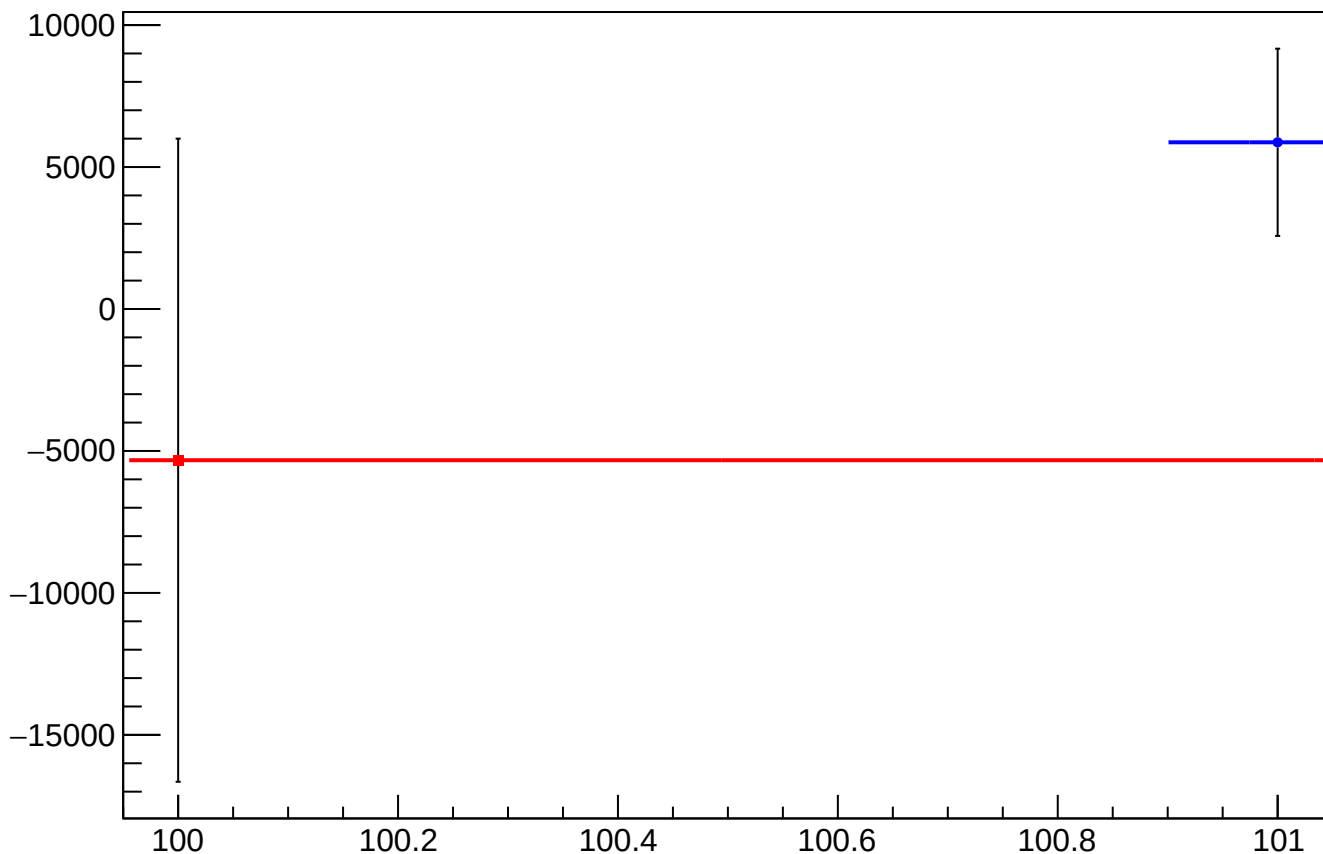
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 17377.9/1



# reg\_asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



Right In: 5871.253 $\pm$ 3297.992  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5326.049 $\pm$ 11326.488  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

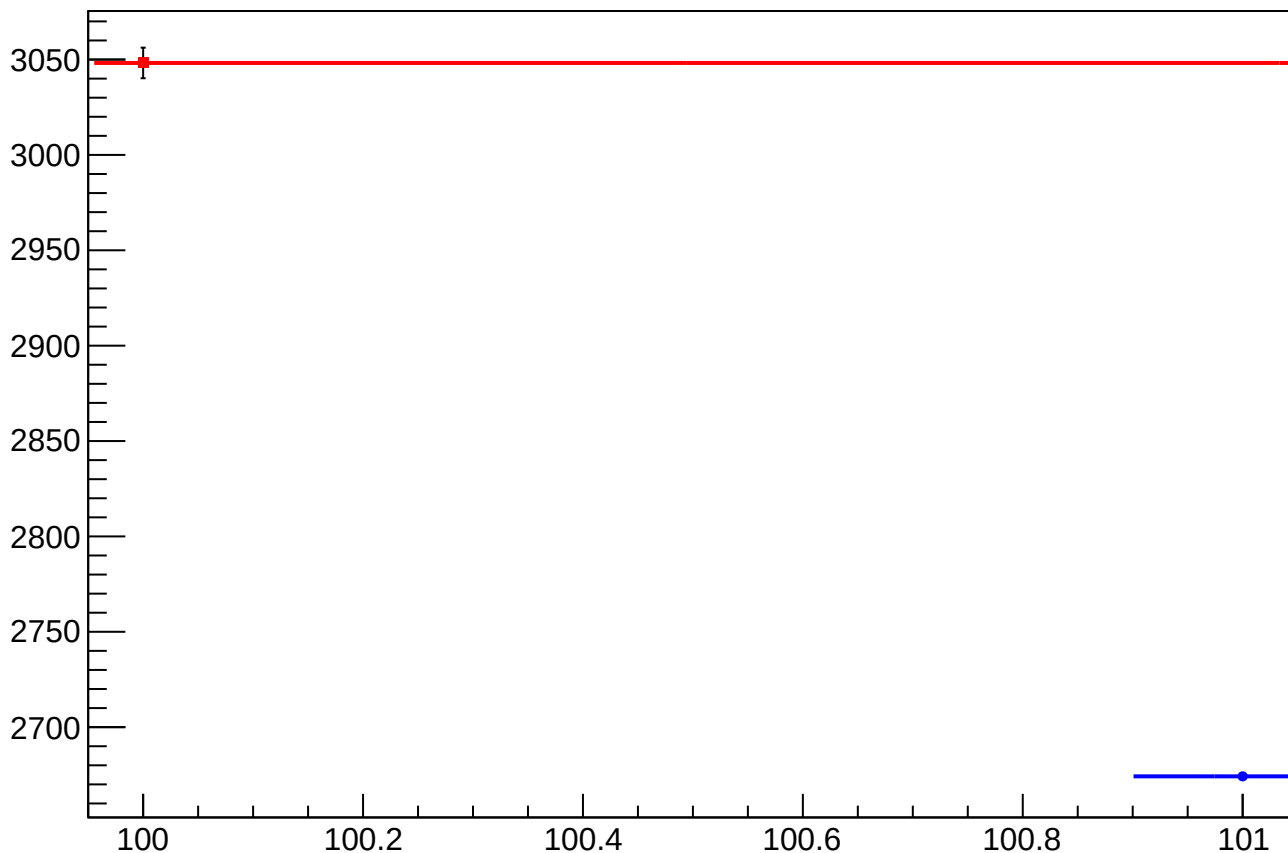
Right: 4996.109 $\pm$ 3166.490  $\chi^2/\text{NDF}$ : 0.9/1

In: 5871.253 $\pm$ 3297.992  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4996.109 $\pm$ 3166.490  $\chi^2/\text{NDF}$ : 0.9/1

# reg\_asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



Right In: 2674.215+/-2.332  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3048.216+/-8.009  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

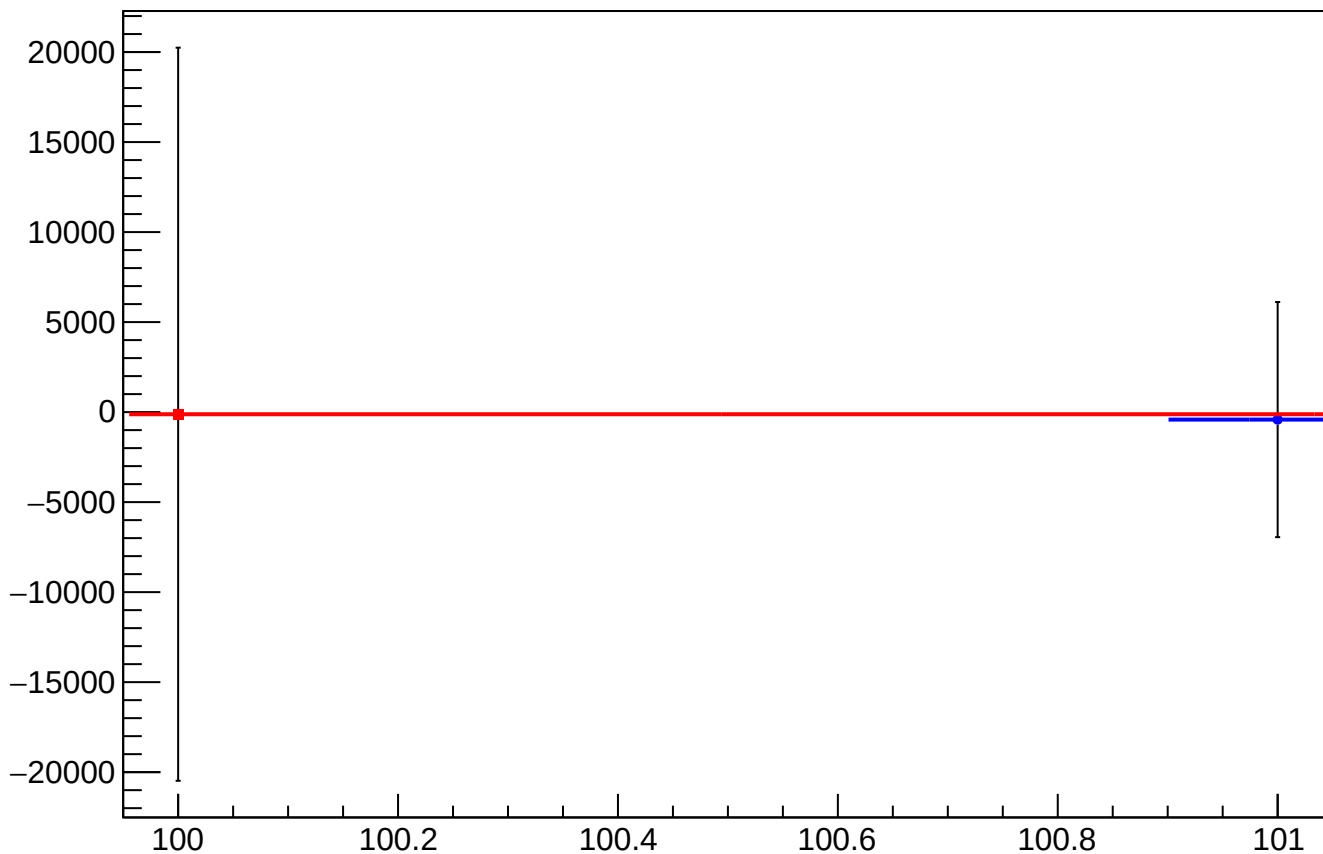
Right: 2703.446+/-2.239  $\chi^2/\text{NDF}$ : 2010.2/1

In: 2674.215+/-2.332  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2703.446+/-2.239  $\chi^2/\text{NDF}$ : 2010.2/1

asym\_atl1r2\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -415.385+/-6531.384  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -118.158+/-20361.740  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

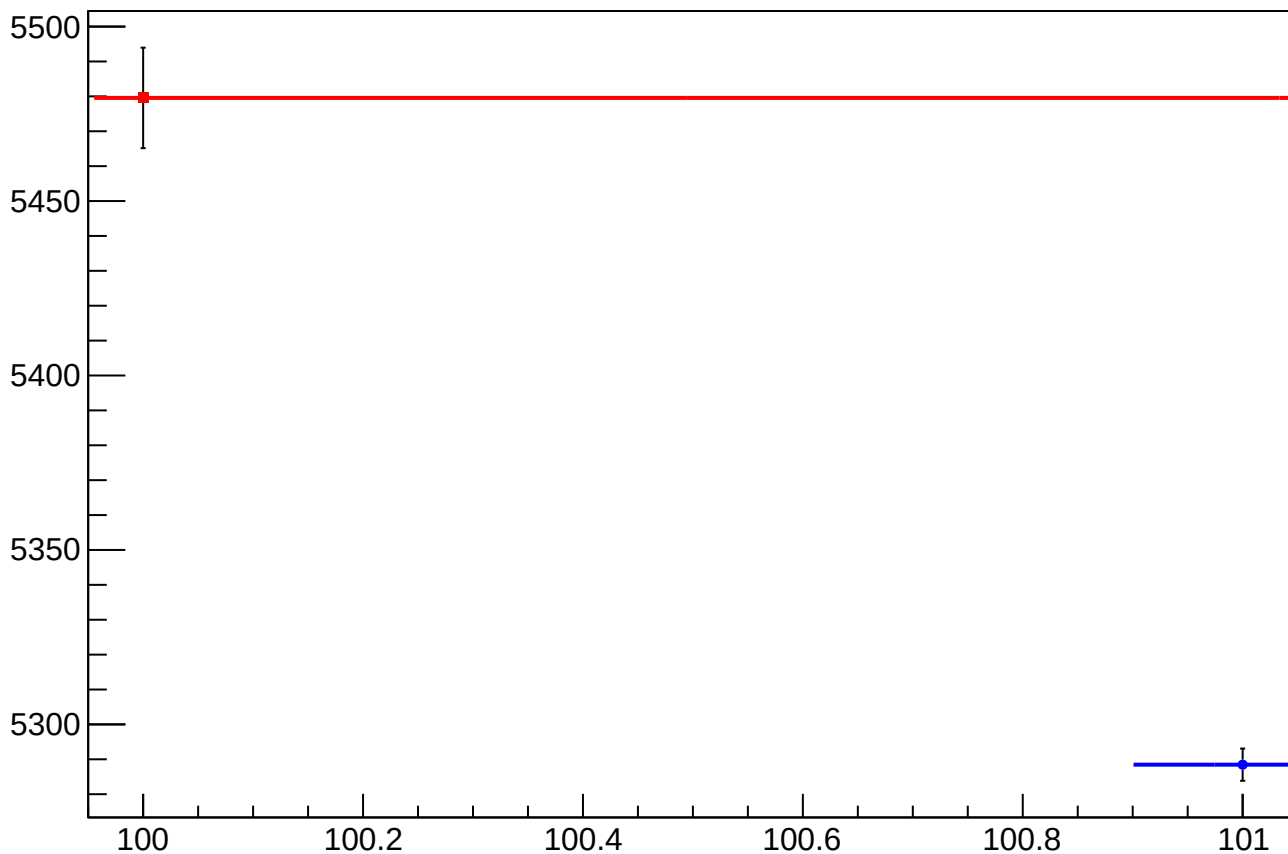
Right: -387.656+/-6219.261  $\chi^2/\text{NDF}$ : 0.0/1

In: -415.385+/-6531.384  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -387.656+/-6219.261  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 5288.458 $\pm$ 4.618  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5479.559 $\pm$ 14.398  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

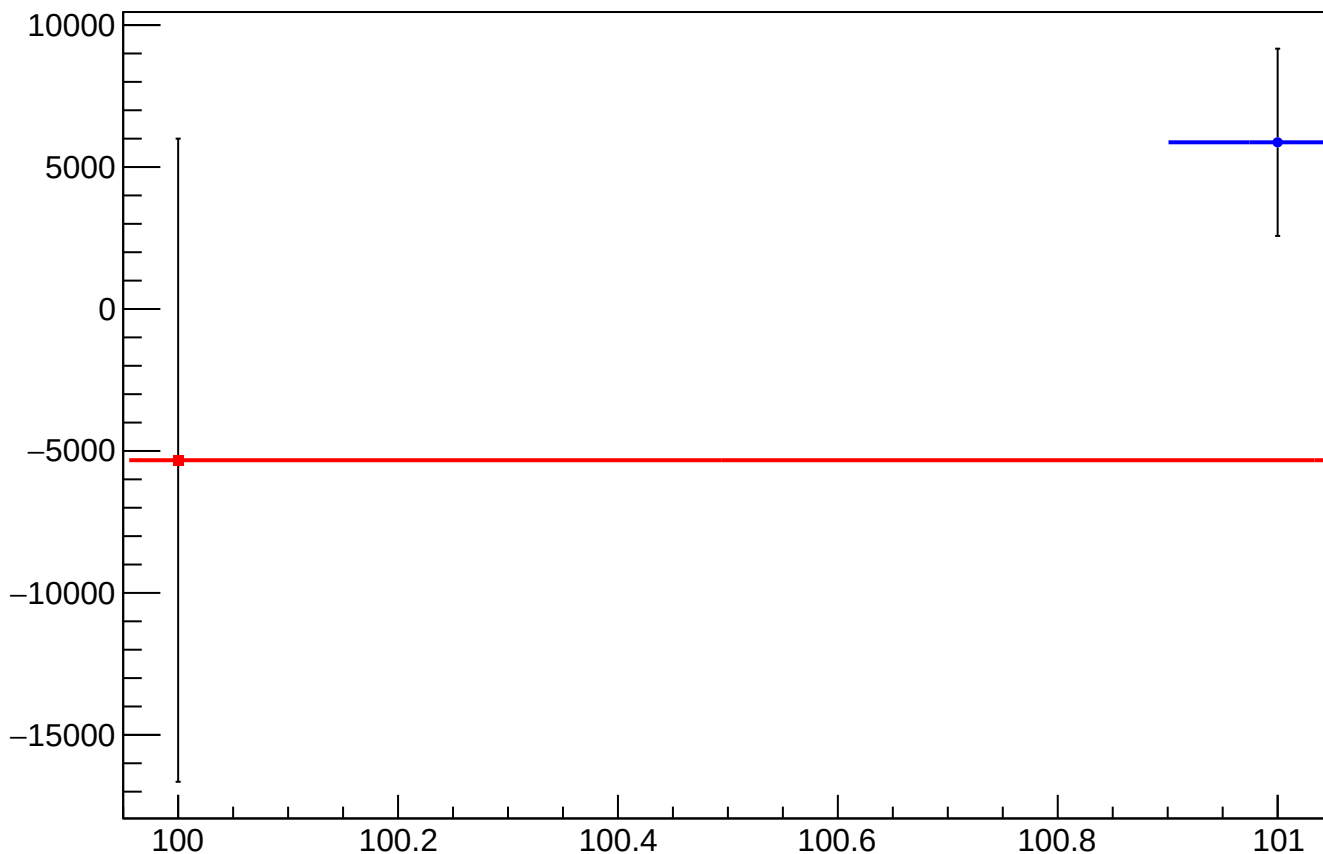
Right: 5306.287 $\pm$ 4.398  $\chi^2$ /NDF: 159.7/1

In: 5288.458 $\pm$ 4.618  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5306.287 $\pm$ 4.398  $\chi^2$ /NDF: 159.7/1

# cor\_asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



Right In: 5871.405+/-3297.992  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5326.020+/-11326.488  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

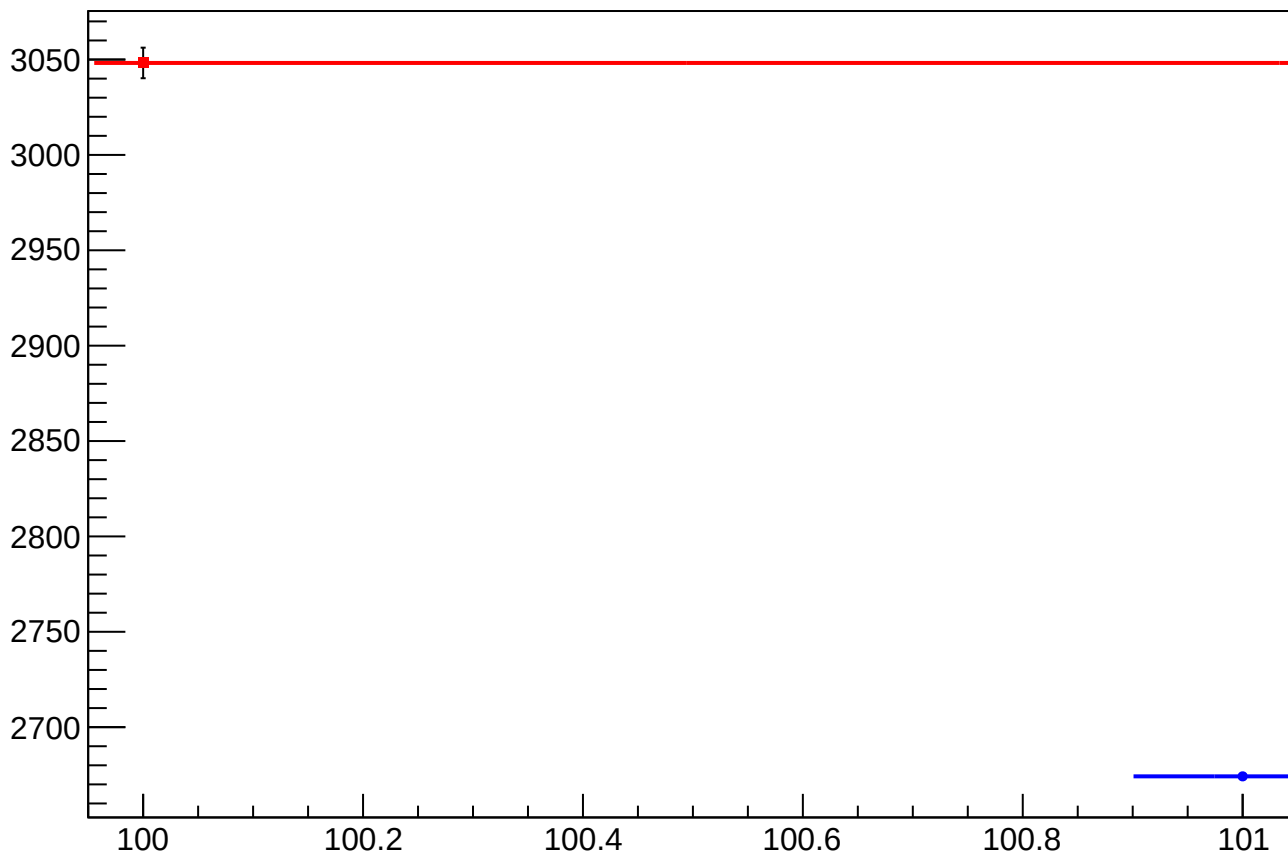
Right: 4996.252+/-3166.490  $\chi^2/\text{NDF}$ : 0.9/1

In: 5871.405+/-3297.992  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4996.252+/-3166.490  $\chi^2/\text{NDF}$ : 0.9/1

# cor\_asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



Right In: 2674.215+/-2.332  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3048.216+/-8.009  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

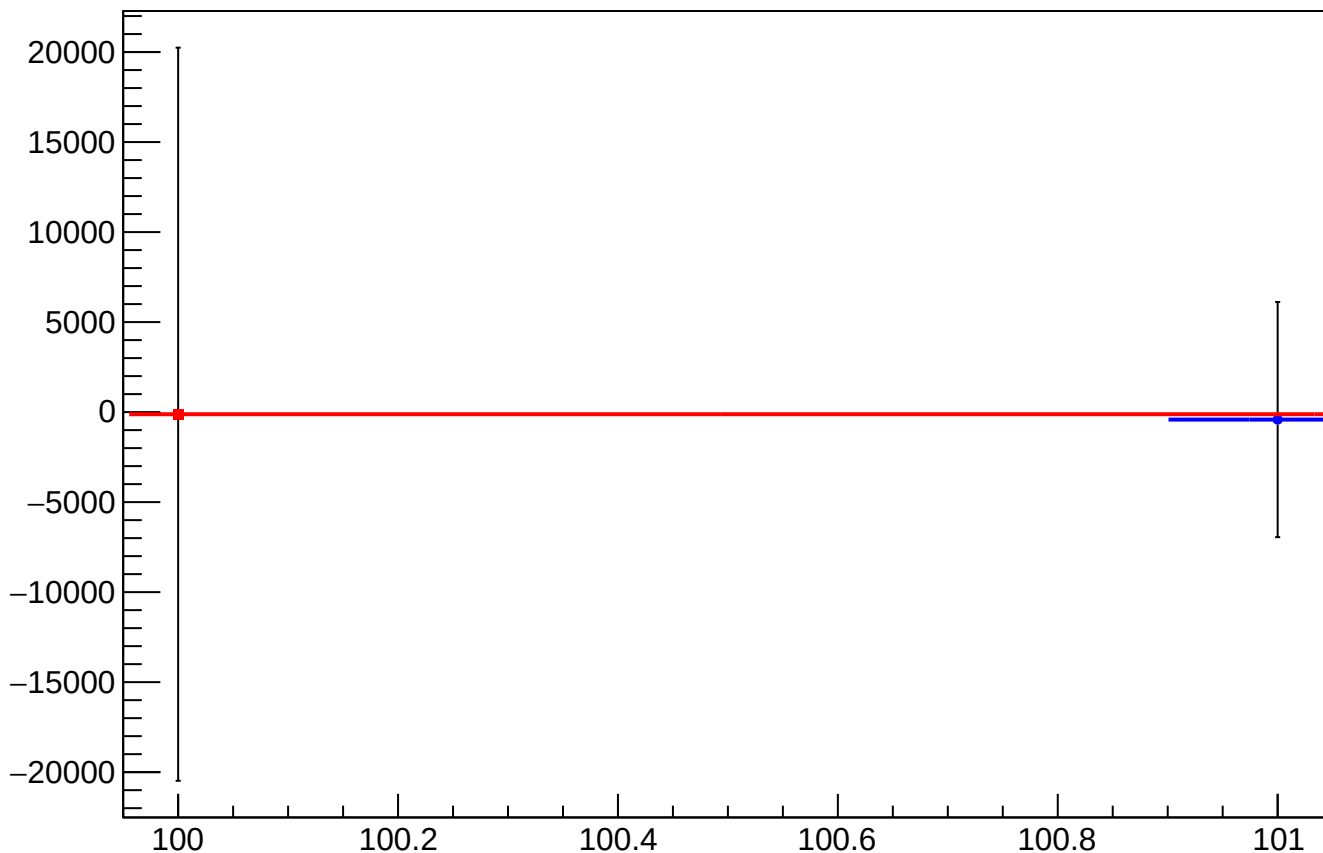
Right: 2703.446+/-2.239  $\chi^2/\text{NDF}$ : 2010.2/1

In: 2674.215+/-2.332  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2703.446+/-2.239  $\chi^2/\text{NDF}$ : 2010.2/1

asym\_atl1r2\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -415.466+/-6531.375  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -118.123+/-20361.743  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

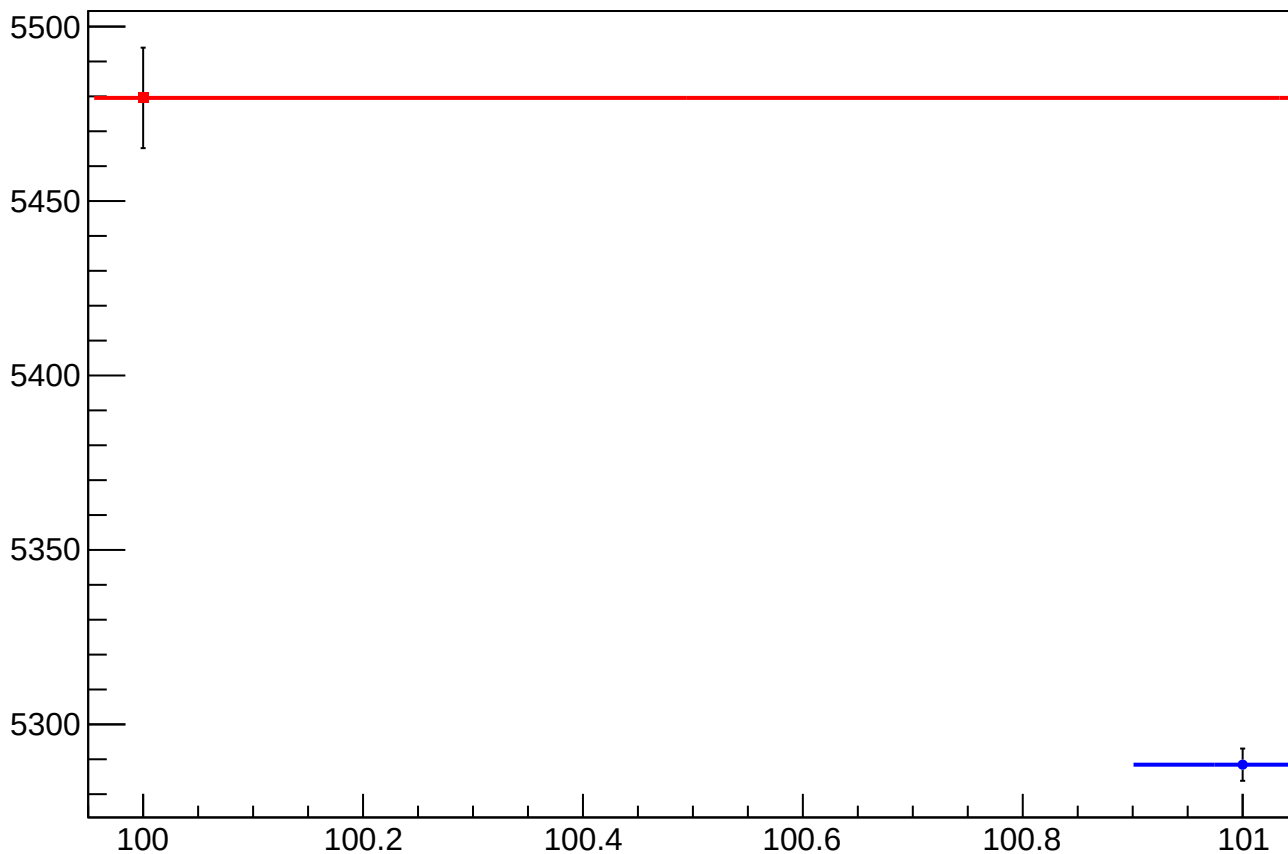
Right: -387.726+/-6219.253  $\chi^2/\text{NDF}$ : 0.0/1

In: -415.466+/-6531.375  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -387.726+/-6219.253  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5288.450+/-4.618  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5479.560+/-14.398  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 5306.279+/-4.398  $\chi^2/\text{NDF}$ : 159.7/1

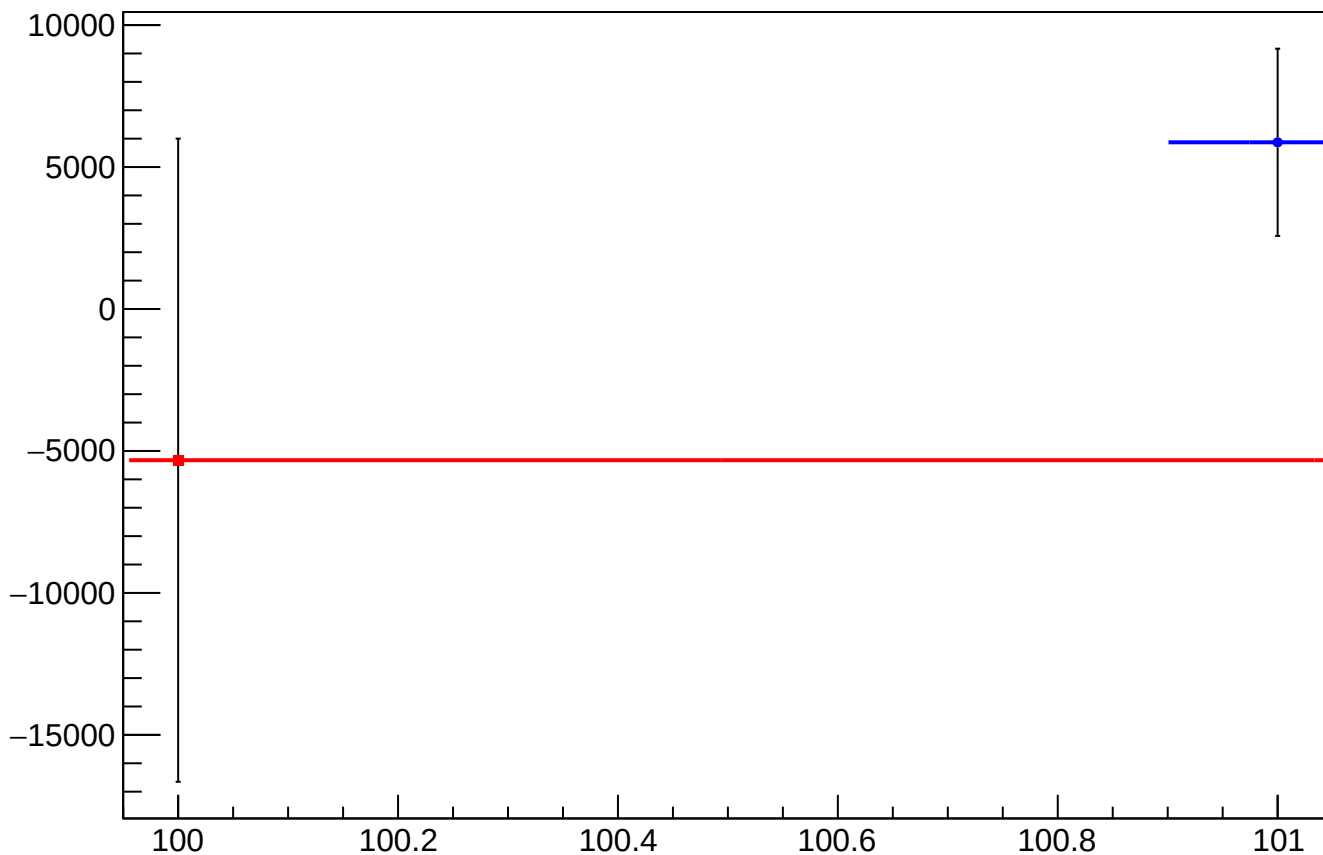
In: 5288.450+/-4.618  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5306.279+/-4.398  $\chi^2/\text{NDF}$ : 159.7/1



eigen\_cor\_asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



Right In: 5871.405+/-3297.992  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5326.020+/-11326.488  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

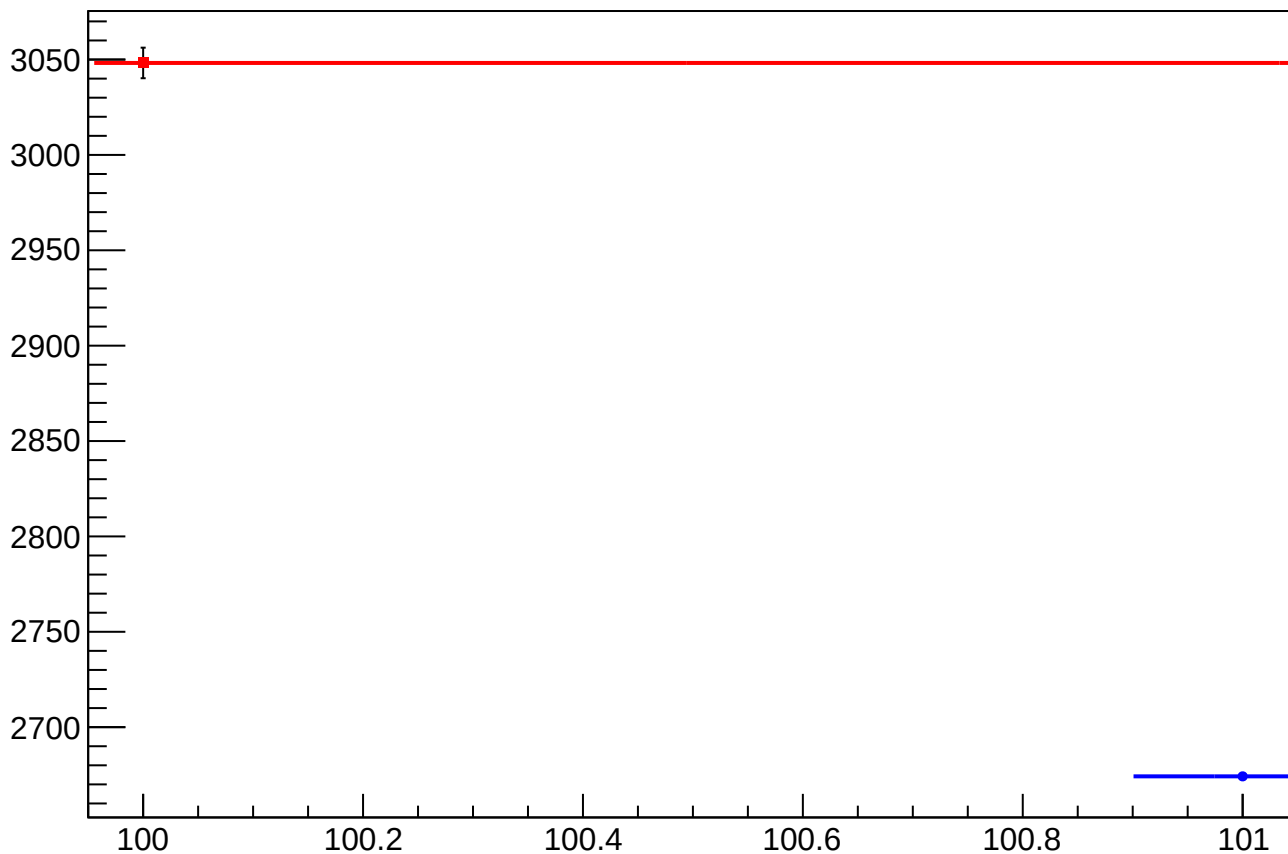
Right: 4996.252+/-3166.490  $\chi^2$ /NDF: 0.9/1

In: 5871.405+/-3297.992  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 4996.252+/-3166.490  $\chi^2$ /NDF: 0.9/1

eigen\_cor\_asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



Right In: 2674.215+/-2.332  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3048.216+/-8.009  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

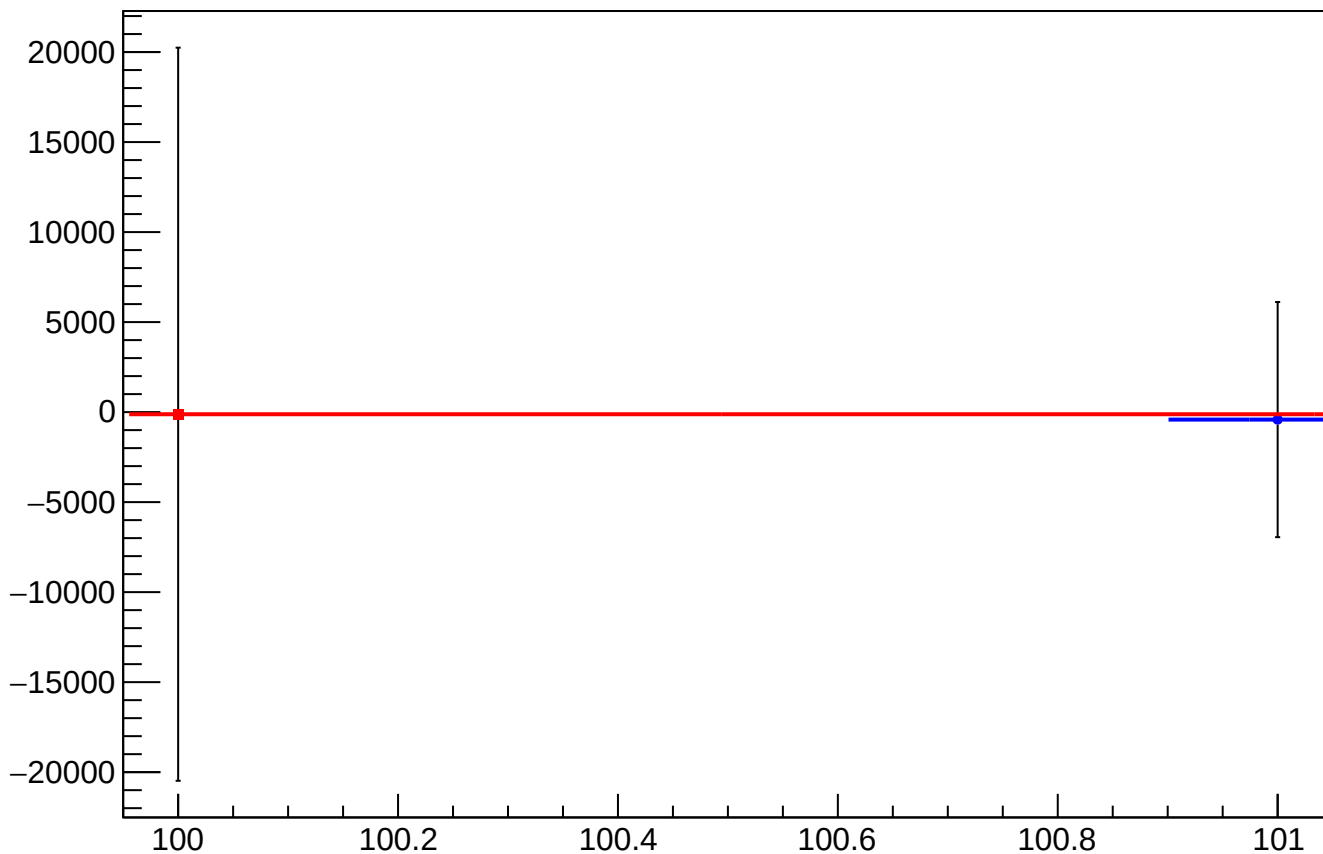
Right: 2703.446+/-2.239  $\chi^2/\text{NDF}$ : 2010.2/1

In: 2674.215+/-2.332  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2703.446+/-2.239  $\chi^2/\text{NDF}$ : 2010.2/1

asym\_atl1r2\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -415.466+/-6531.375  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -118.123+/-20361.743  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

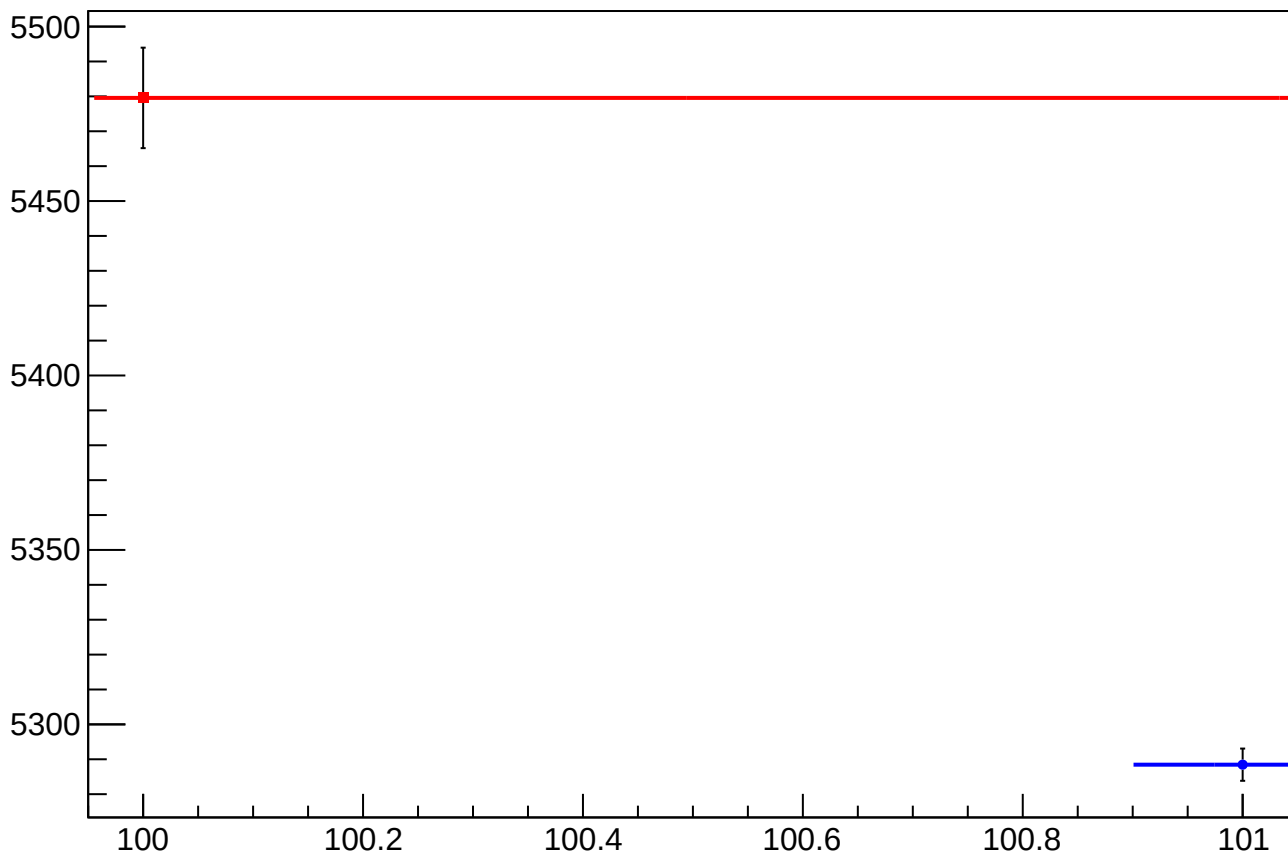
Right: -387.726+/-6219.253  $\chi^2/\text{NDF}$ : 0.0/1

In: -415.466+/-6531.375  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -387.726+/-6219.253  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5288.450+/-4.618  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5479.560+/-14.398  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

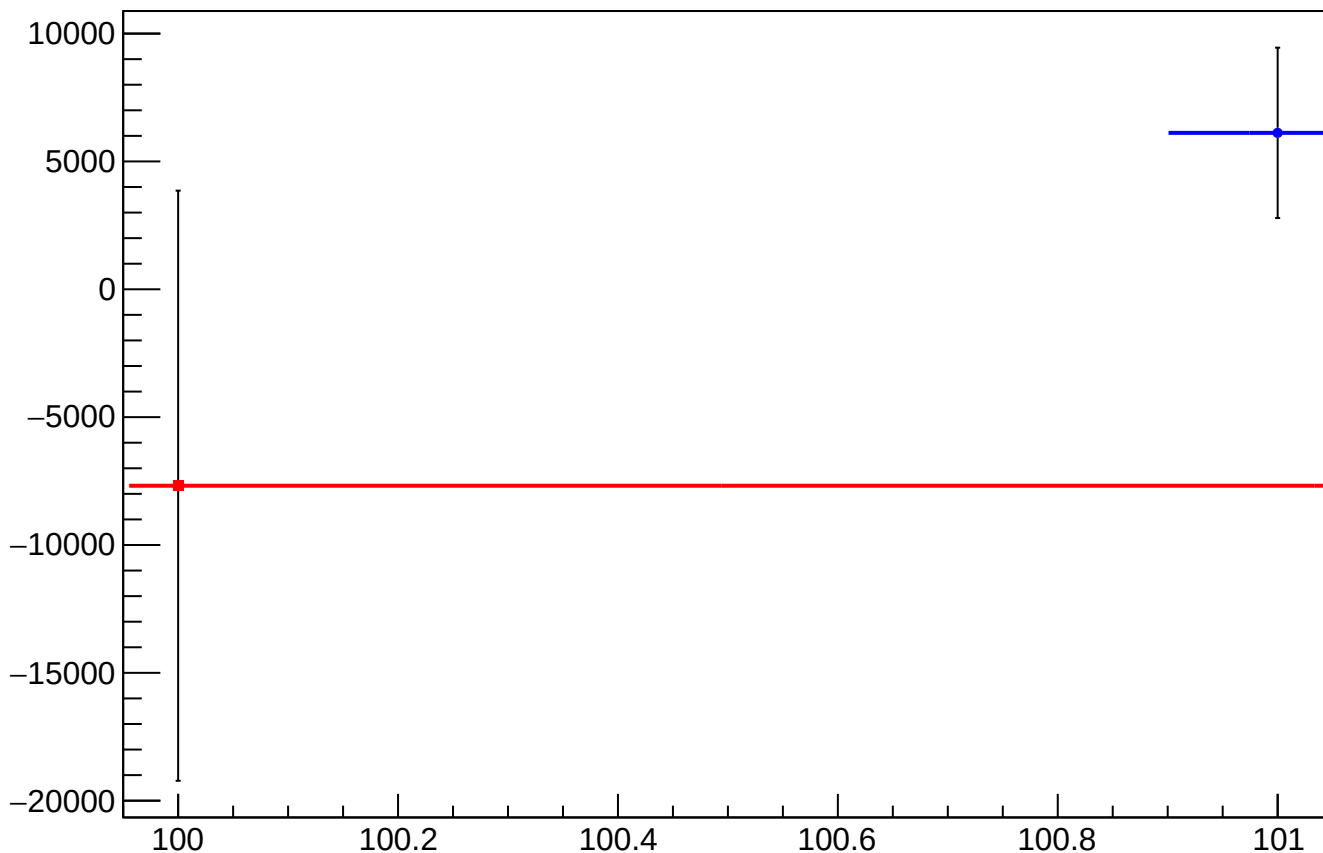
Right: 5306.279+/-4.398  $\chi^2/\text{NDF}$ : 159.7/1

In: 5288.450+/-4.618  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5306.279+/-4.398  $\chi^2/\text{NDF}$ : 159.7/1

dit\_asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



Right In: 6117.700+/-3331.675  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7682.441+/-11539.529  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

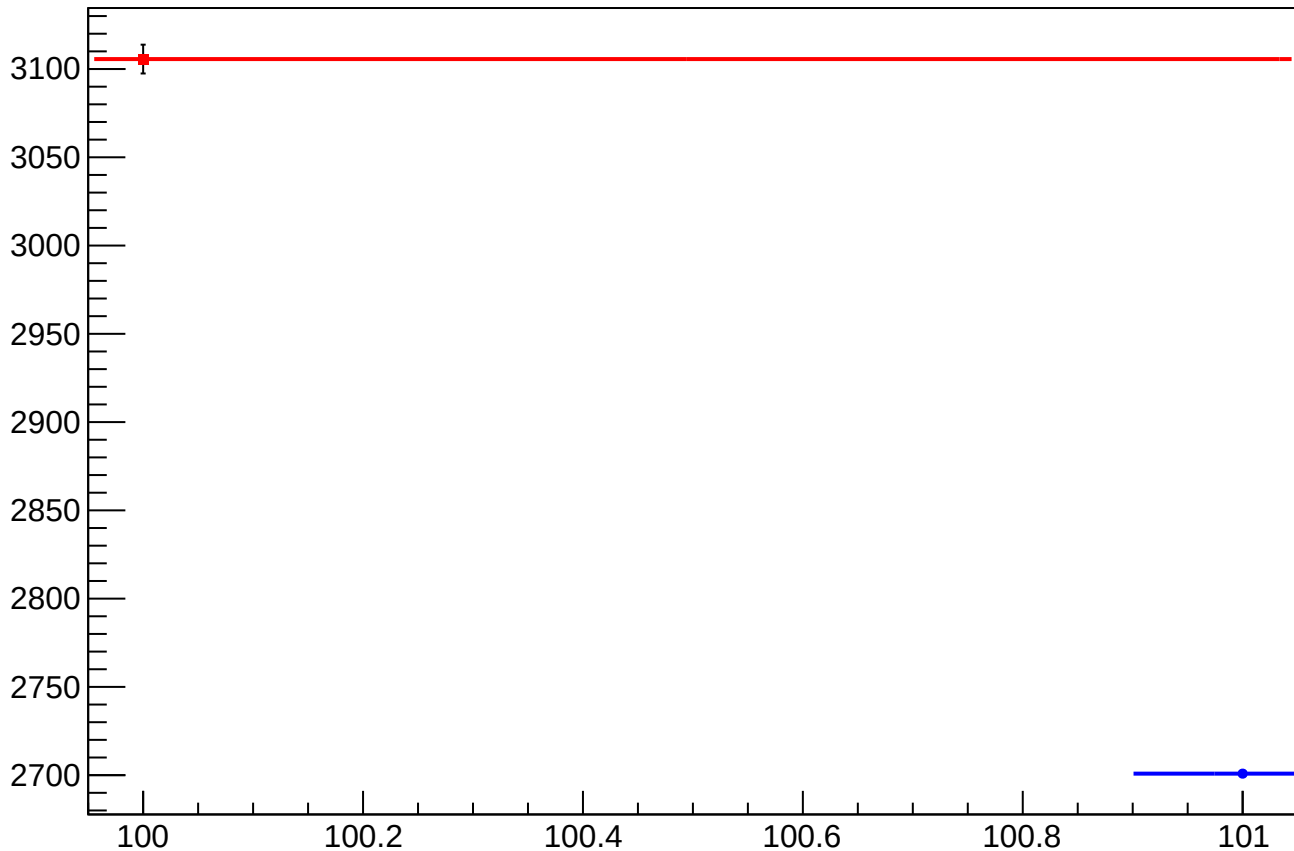
Right: 5055.856+/-3200.933  $\chi^2$ /NDF: 1.3/1

In: 6117.700+/-3331.675  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 5055.856+/-3200.933  $\chi^2$ /NDF: 1.3/1

# dit\_asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



Right In:  $2700.865 \pm 2.356$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $3105.634 \pm 8.160$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

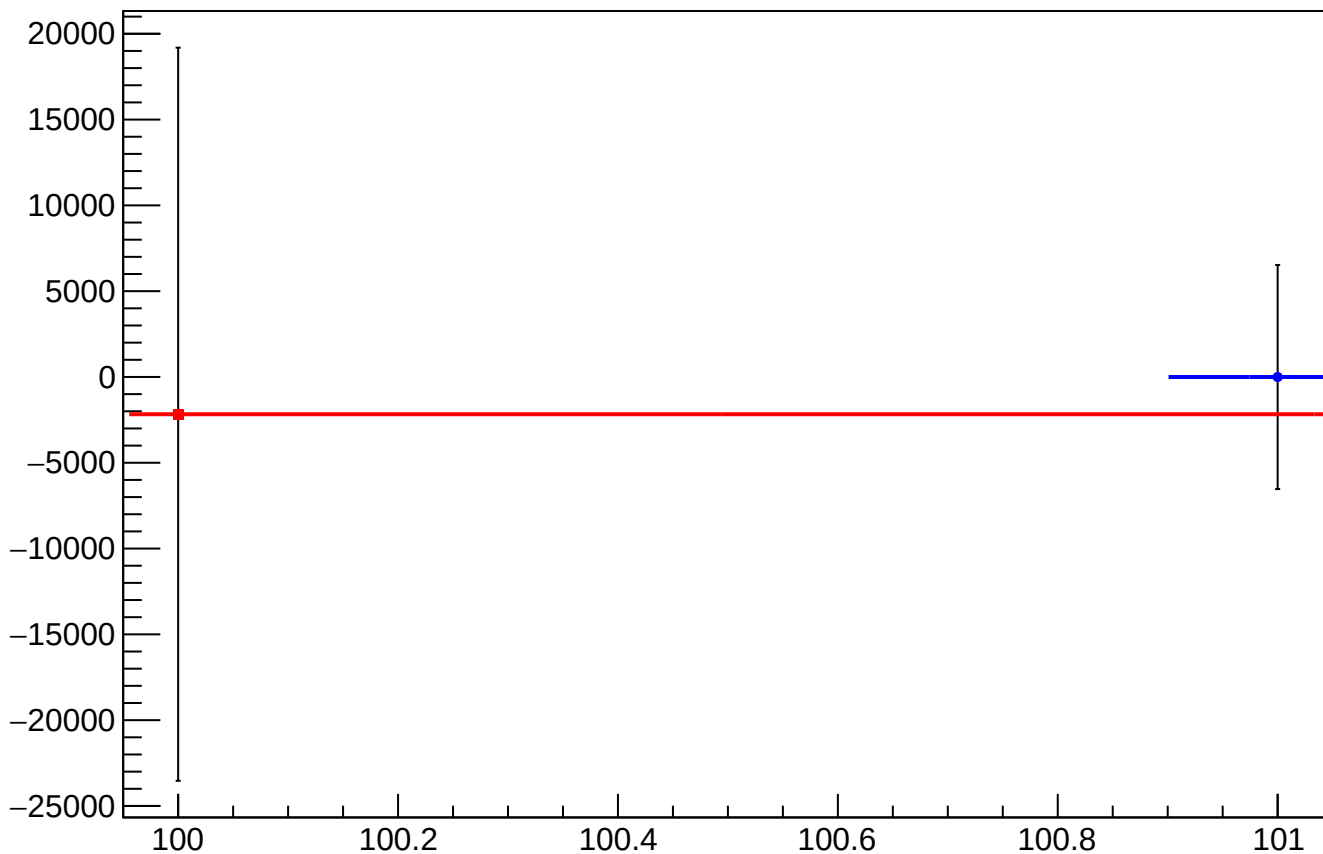
Right:  $2732.010 \pm 2.263$   $\chi^2/\text{NDF}$ : 2271.4/1

In:  $2700.865 \pm 2.356$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $2732.010 \pm 2.263$   $\chi^2/\text{NDF}$ : 2271.4/1

asym\_atl1r2\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2.614+/-6530.274  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2171.769+/-21362.328  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

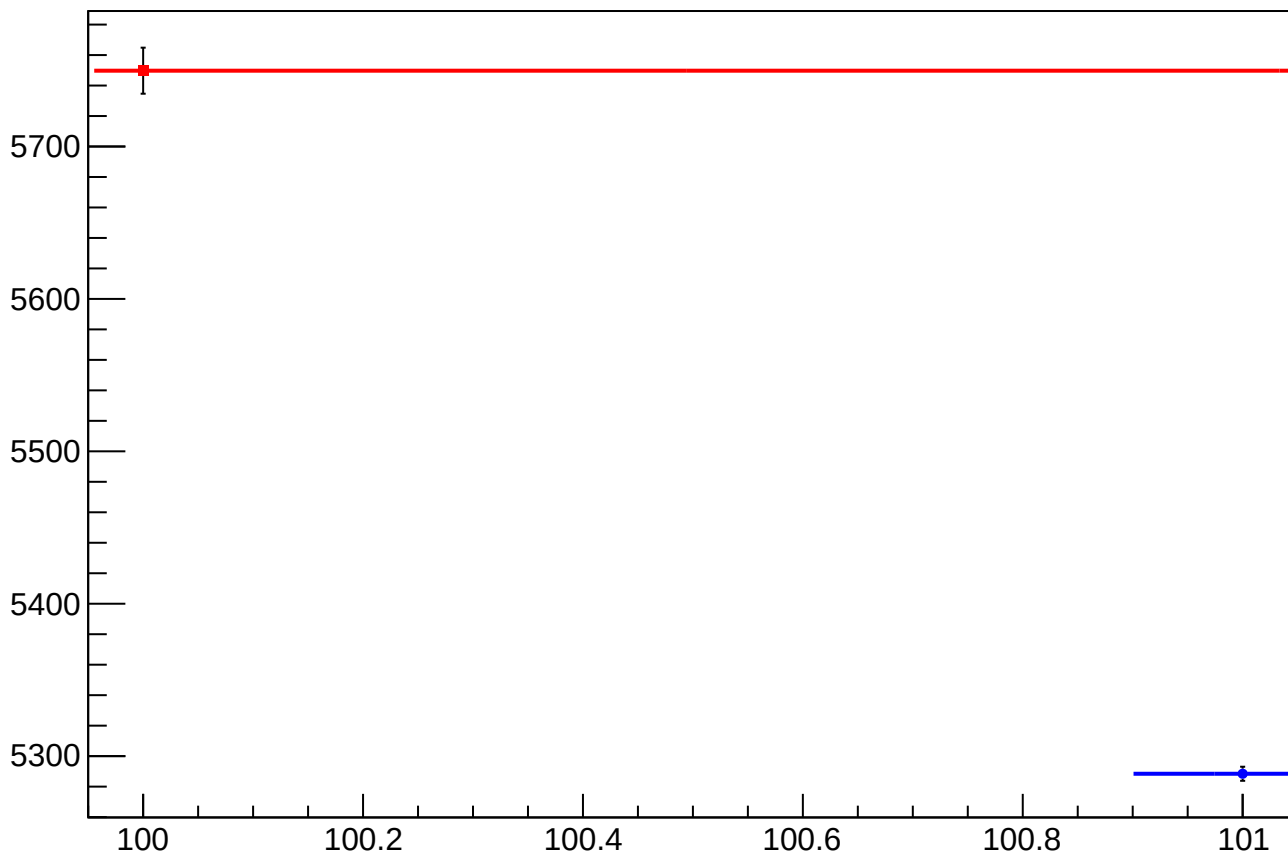
Right: -187.992+/-6245.001  $\chi^2/\text{NDF}$ : 0.0/1

In: -2.614+/-6530.274  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -187.992+/-6245.001  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5288.436 $\pm$ 4.618  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5749.746 $\pm$ 15.105  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 5327.860 $\pm$ 4.416  $\chi^2$ /NDF: 852.9/1

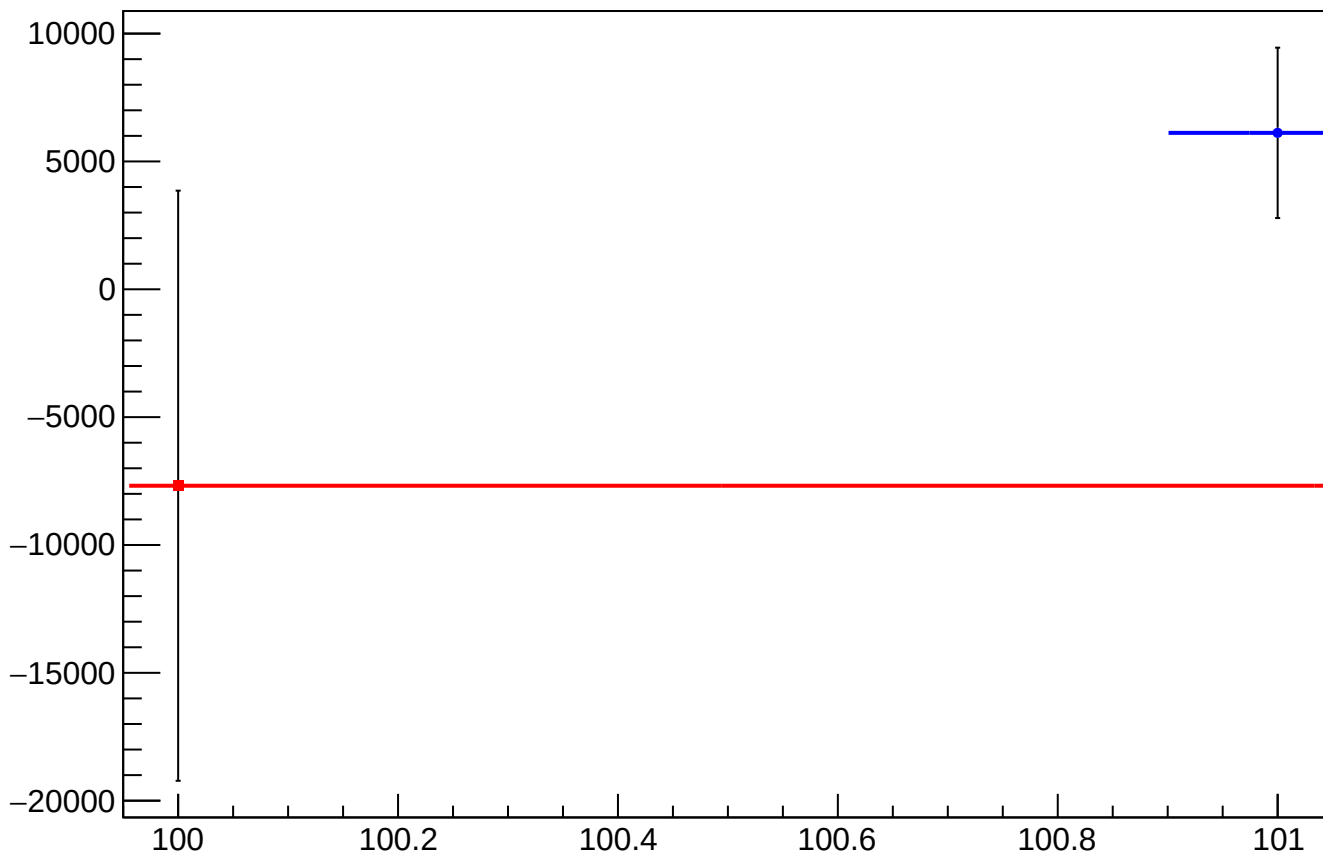
In: 5288.436 $\pm$ 4.618  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5327.860 $\pm$ 4.416  $\chi^2$ /NDF: 852.9/1



eigen\_dit\_asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



Right In: 6117.737+/-3331.675  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7682.596+/-11539.532  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

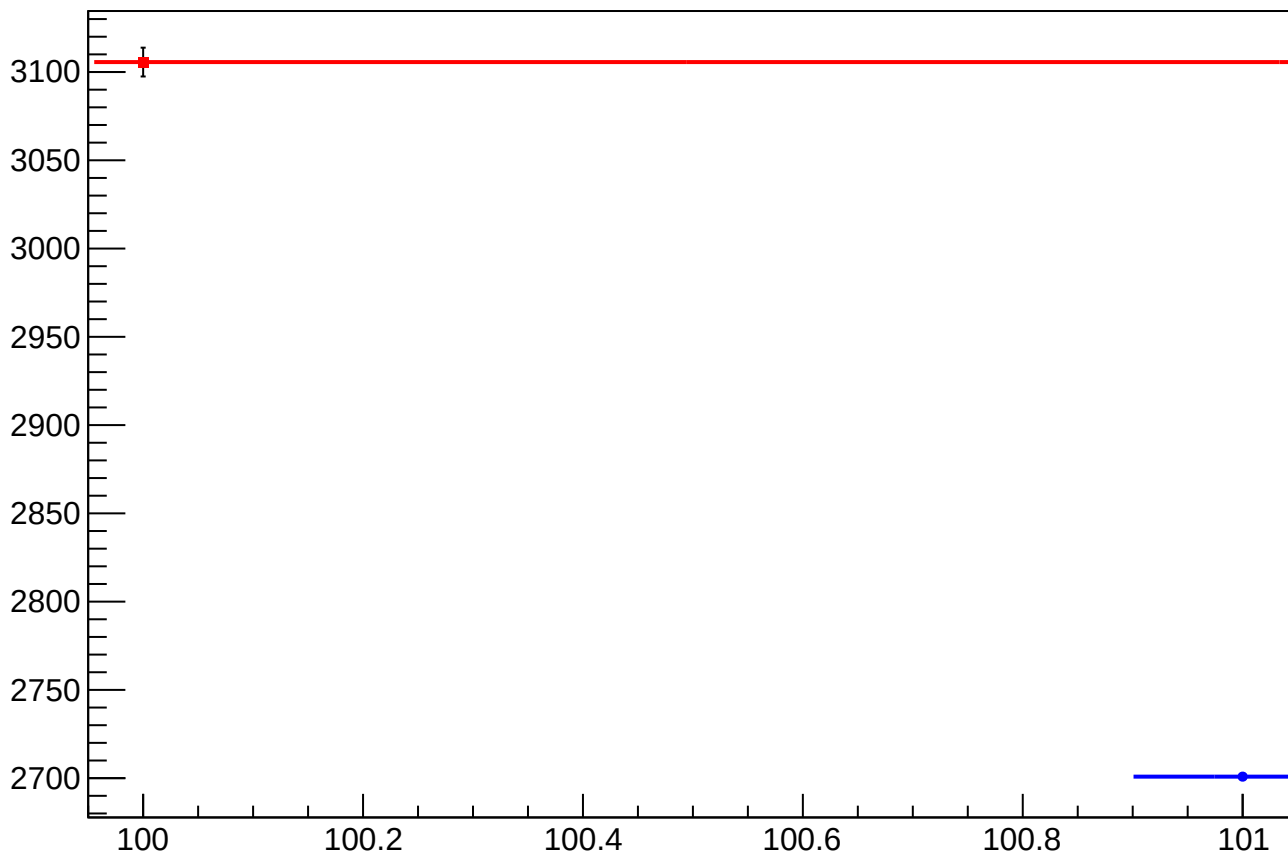
Right: 5055.879+/-3200.933  $\chi^2/\text{NDF}$ : 1.3/1

In: 6117.737+/-3331.675  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5055.879+/-3200.933  $\chi^2/\text{NDF}$ : 1.3/1

eigen\_dit\_asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



Right In: 2700.865 +/- 2.356  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3105.635 +/- 8.160  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

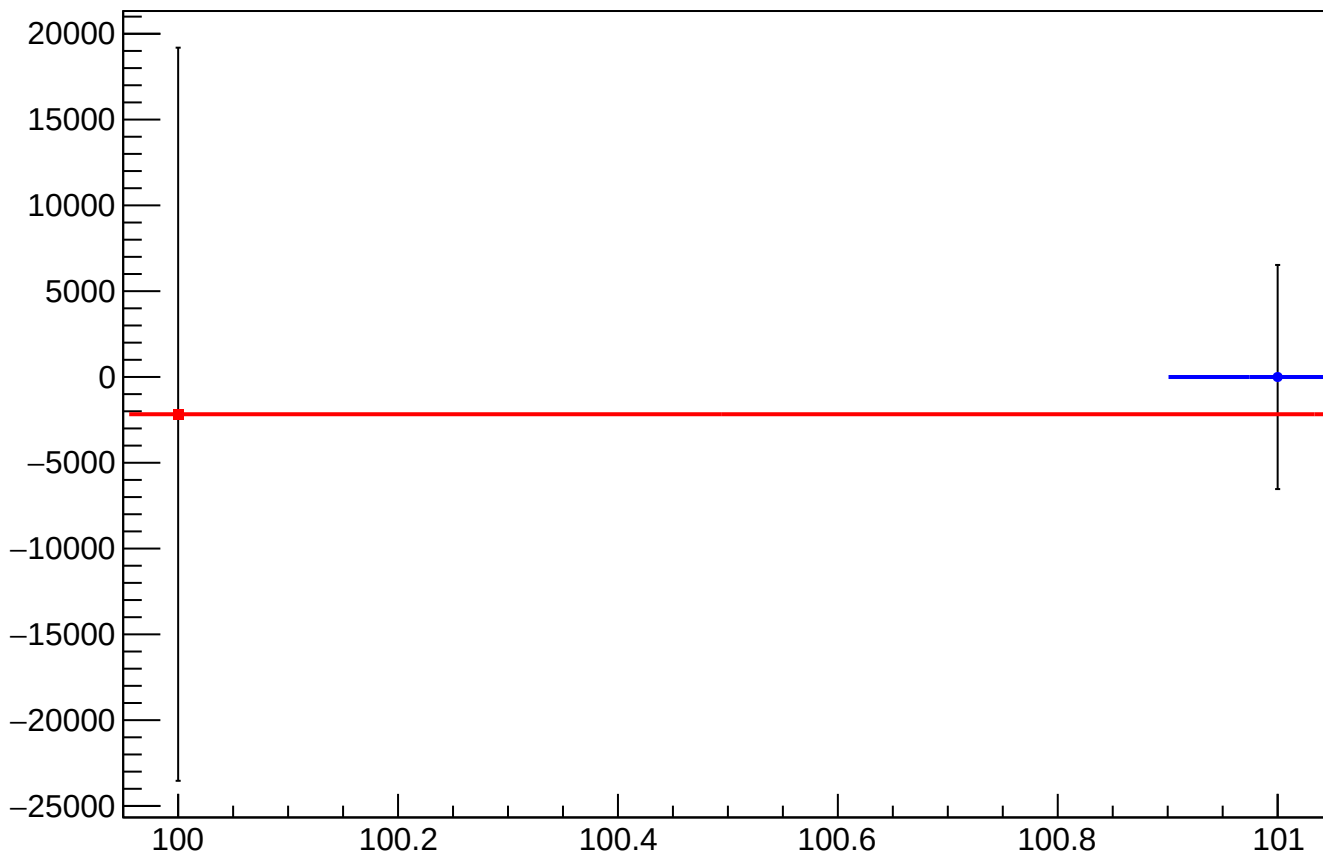
Right: 2732.009 +/- 2.263  $\chi^2/\text{NDF}$ : 2271.4/1

In: 2700.865 +/- 2.356  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2732.009 +/- 2.263  $\chi^2/\text{NDF}$ : 2271.4/1

asym\_atl1r2\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2.585+/-6530.267  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2171.924+/-21362.278  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

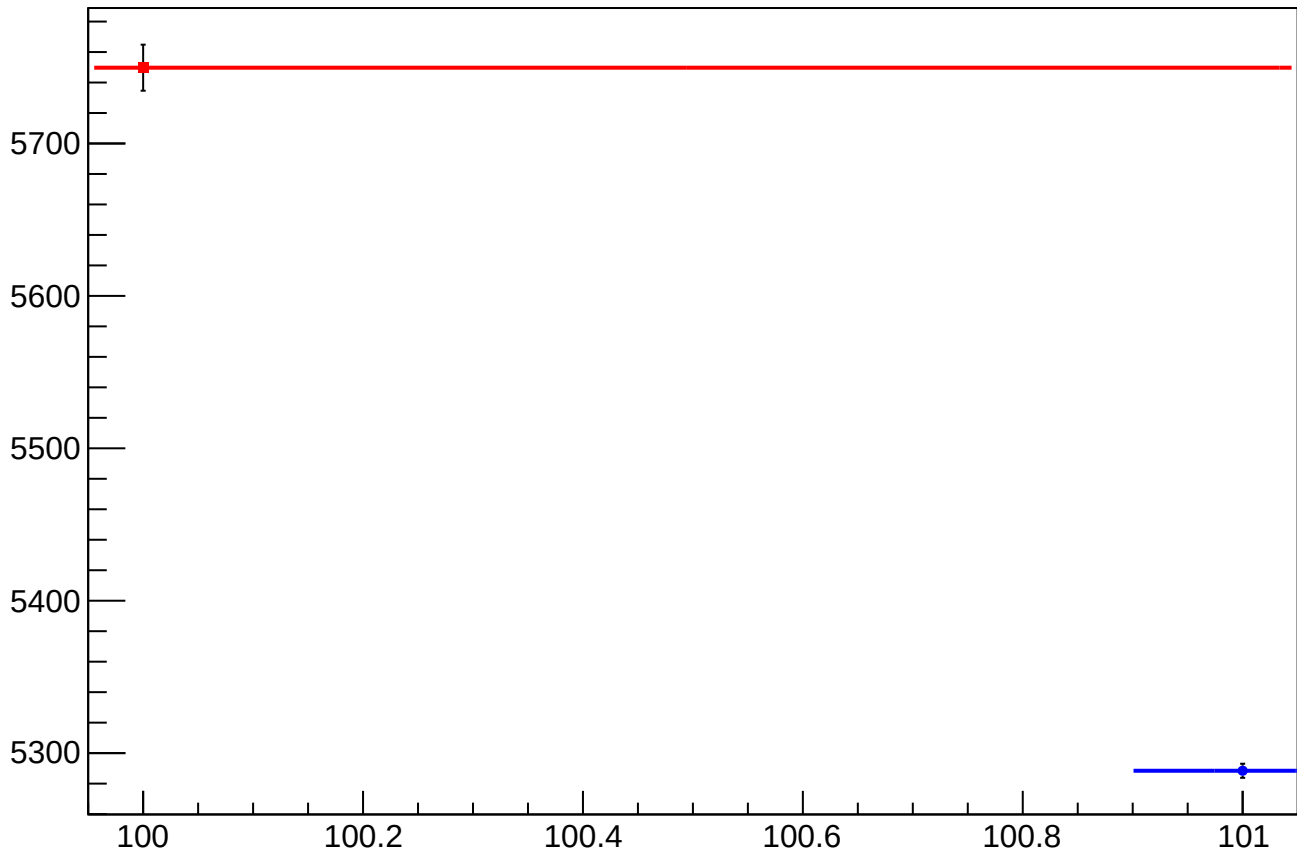
Right: -187.979+/-6244.994  $\chi^2/\text{NDF}$ : 0.0/1

In: -2.585+/-6530.267  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -187.979+/-6244.994  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5288.430 $\pm$ 4.618  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5749.733 $\pm$ 15.105  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

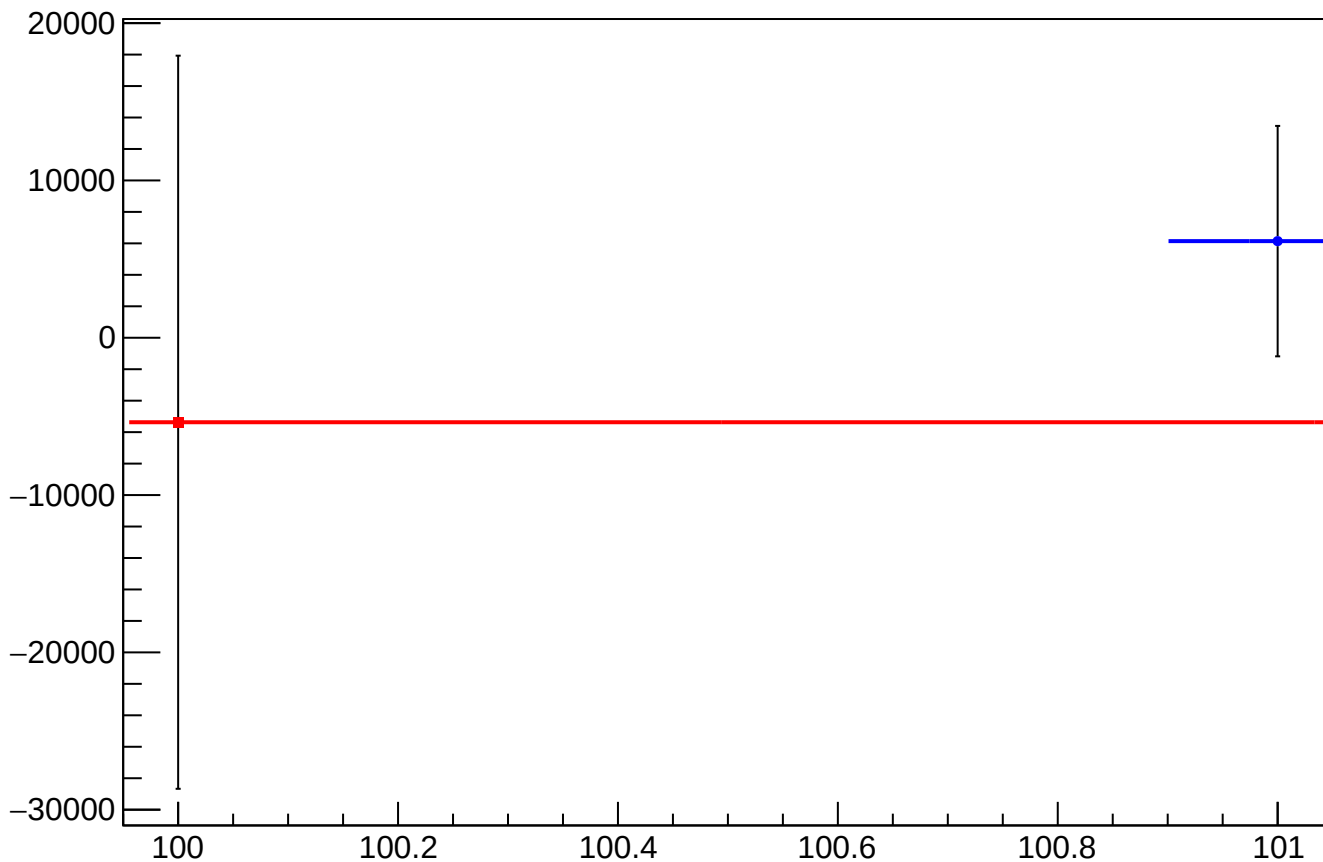
Right: 5327.854 $\pm$ 4.416  $\chi^2$ /NDF: 852.9/1

In: 5288.430 $\pm$ 4.618  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5327.854 $\pm$ 4.416  $\chi^2$ /NDF: 852.9/1

# asym\_atl1r2\_dd\_mean vs Slug, Sign Corrected



Right In: 6142.676+/-7323.785  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5370.215+/-23301.501  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

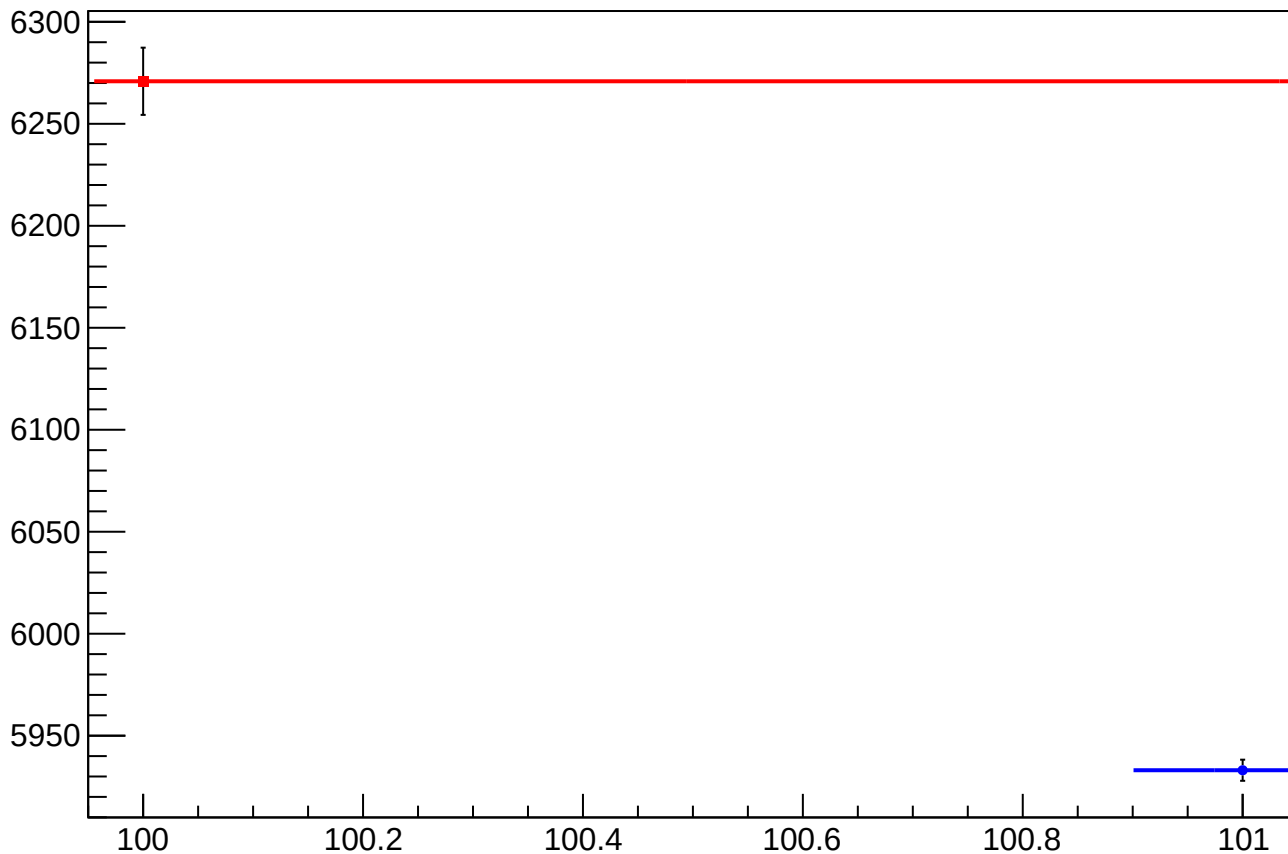
Right: 5107.596+/-6986.806  $\chi^2/\text{NDF}$ : 0.2/1

In: 6142.676+/-7323.785  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5107.596+/-6986.806  $\chi^2/\text{NDF}$ : 0.2/1

# asym\_atl1r2\_dd\_rms vs Slug, Sign Corrected



Right In: 5933.070+/-5.179  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6270.852+/-16.477  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

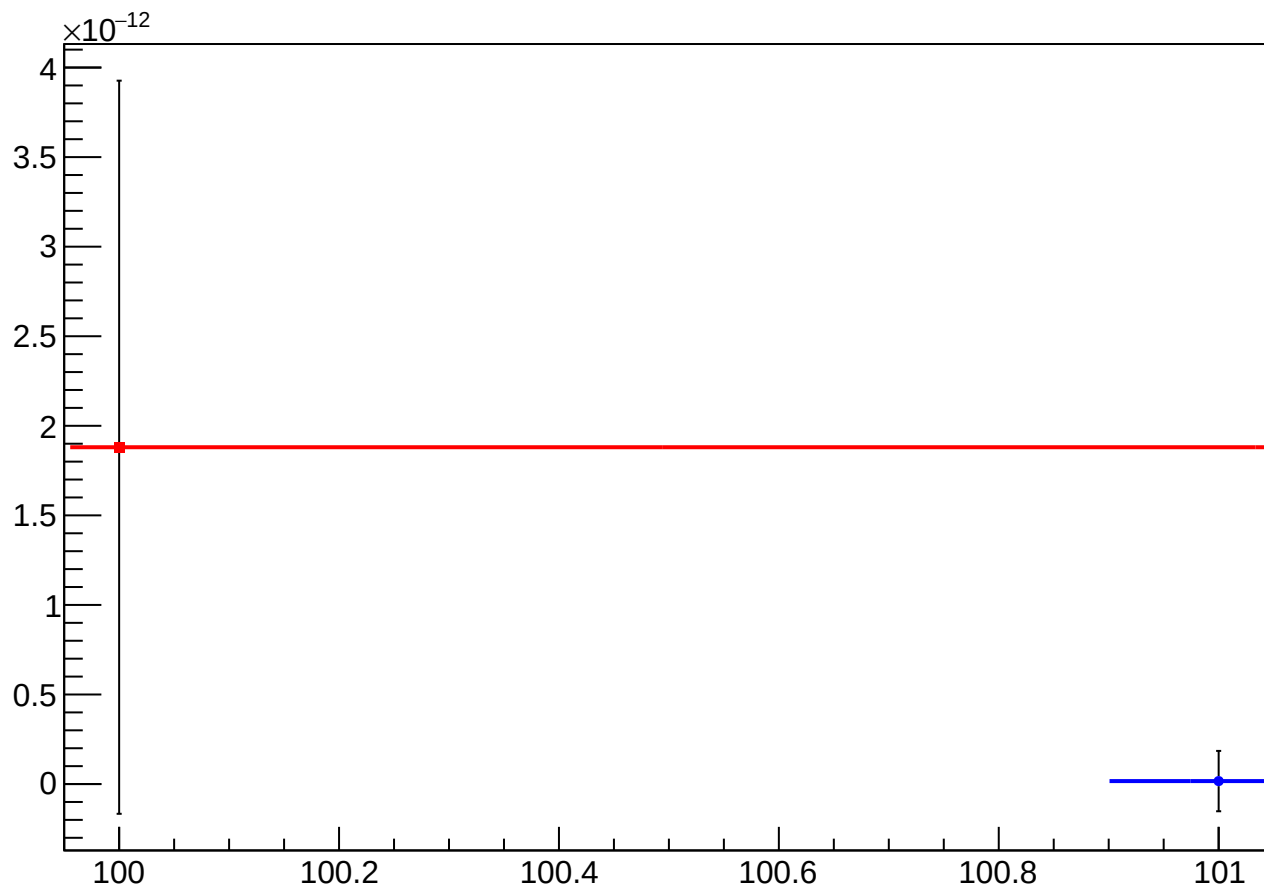
Right: 5963.438+/-4.940  $\chi^2/\text{NDF}$ : 382.5/1

In: 5933.070+/-5.179  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5963.438+/-4.940  $\chi^2/\text{NDF}$ : 382.5/1

asym\_atl1r2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

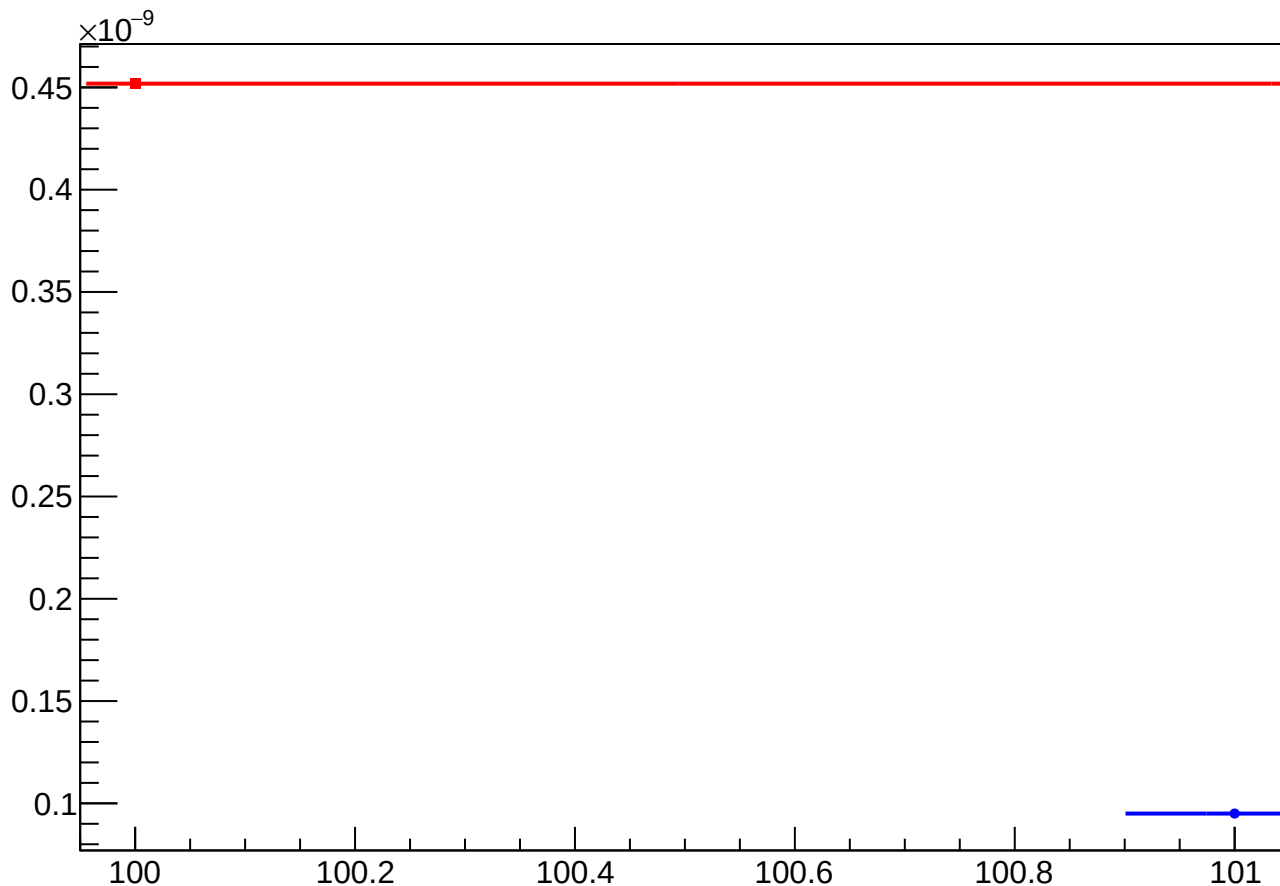
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

asym\_atl1r2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 60406.5/1

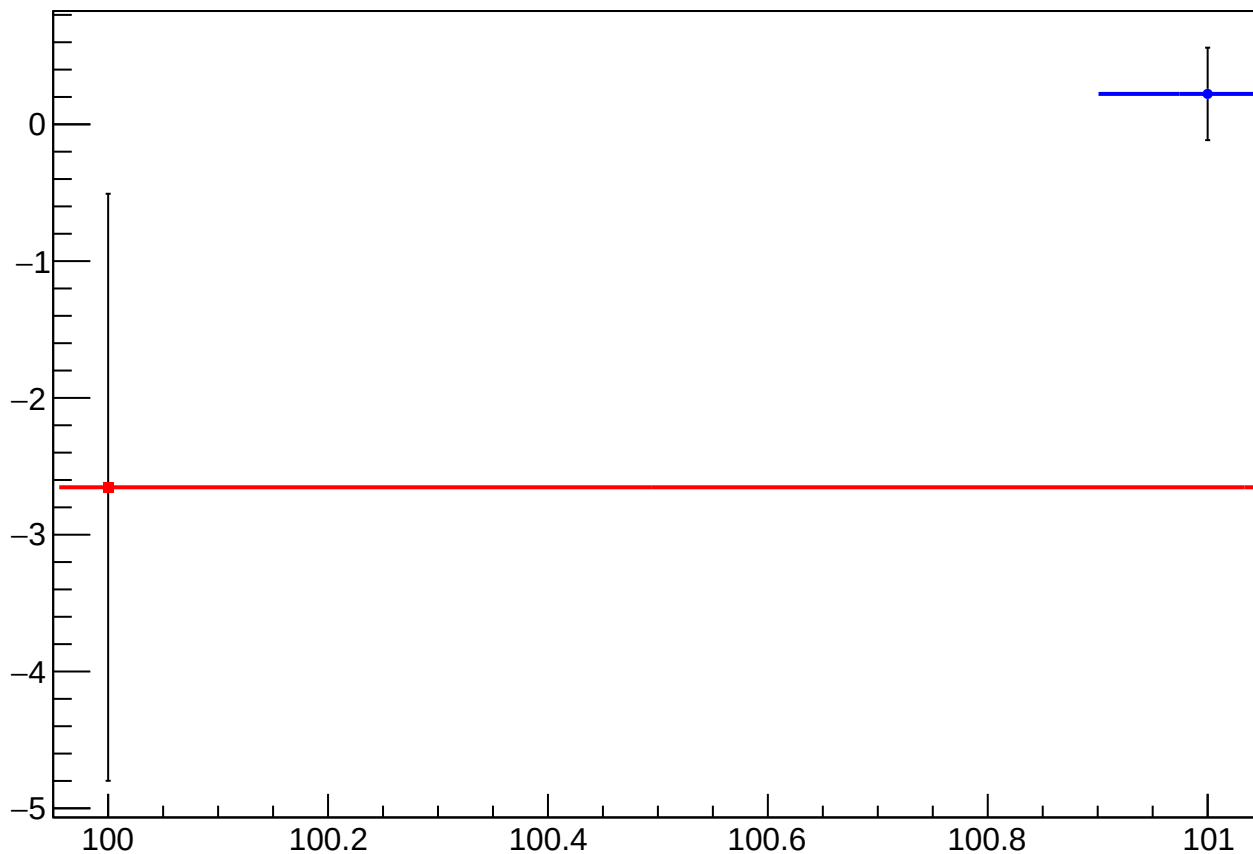
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 60406.5/1



asym\_atl1r2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.222+/-0.338  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.653+/-2.146  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

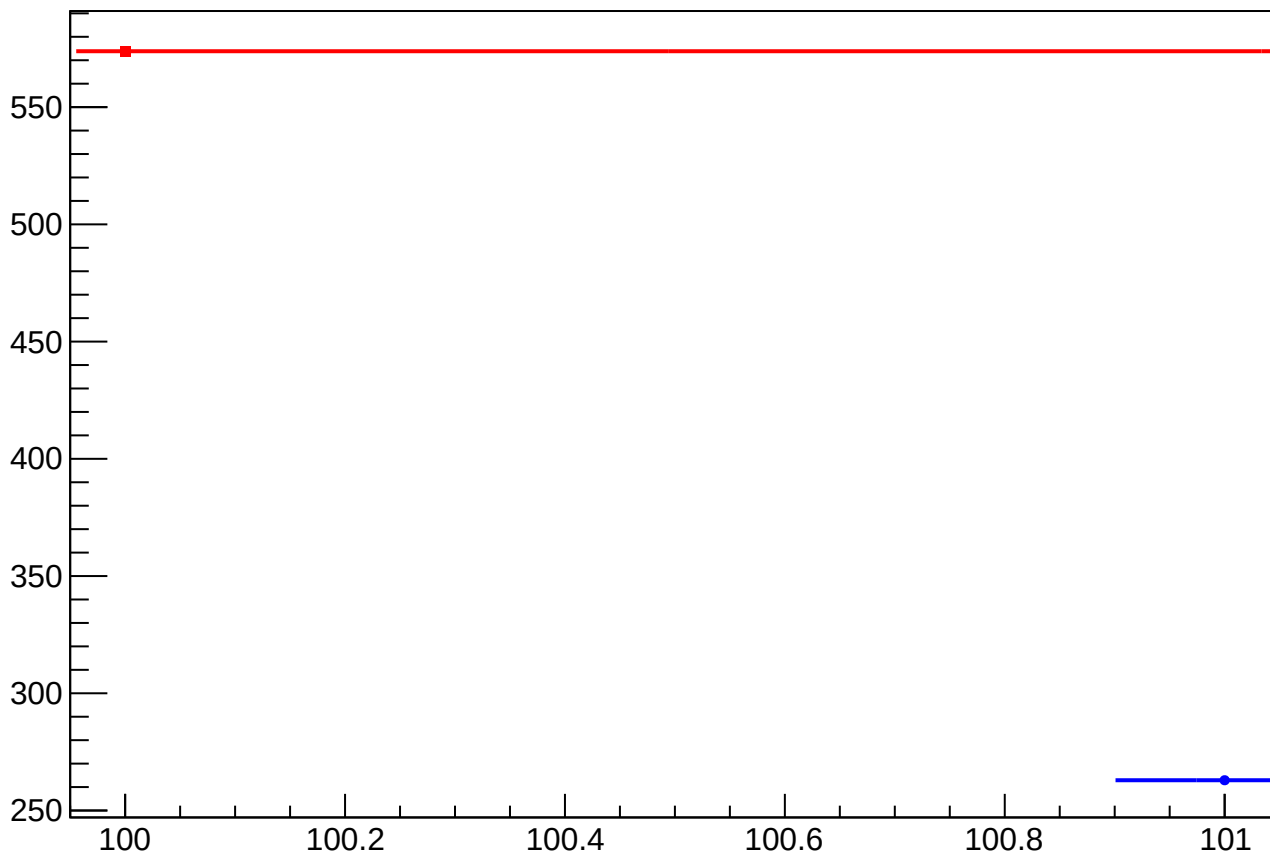
Right: 0.153+/-0.334  $\chi^2/\text{NDF}$ : 1.8/1

In: 0.222+/-0.338  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.153+/-0.334  $\chi^2/\text{NDF}$ : 1.8/1

asym\_atl1r2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 262.911 $\pm$ 0.239  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 573.845 $\pm$ 1.517  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

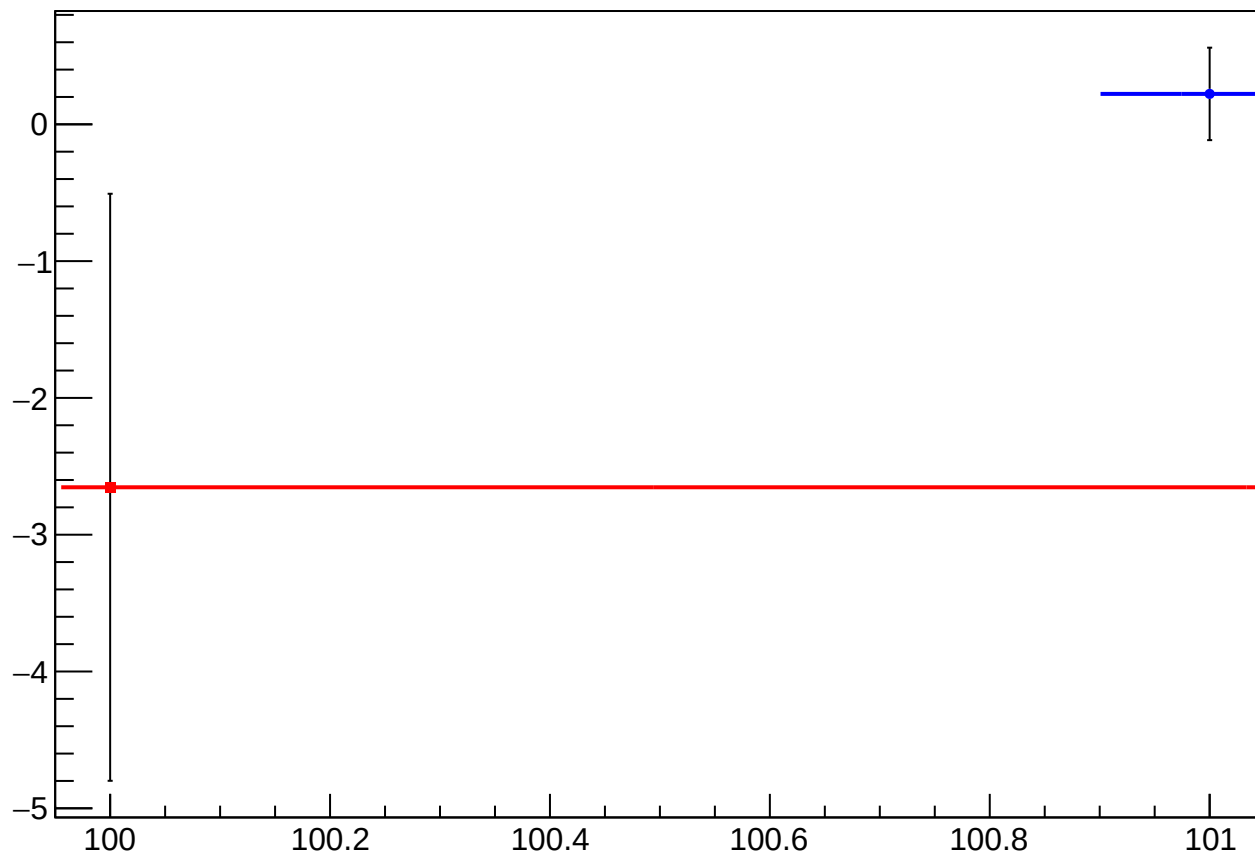
Right: 270.439 $\pm$ 0.236  $\chi^2$ /NDF: 40981.3/1

In: 262.911 $\pm$ 0.239  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 270.439 $\pm$ 0.236  $\chi^2$ /NDF: 40981.3/1

asym\_atl1r2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.222+/-0.338  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.653+/-2.146  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

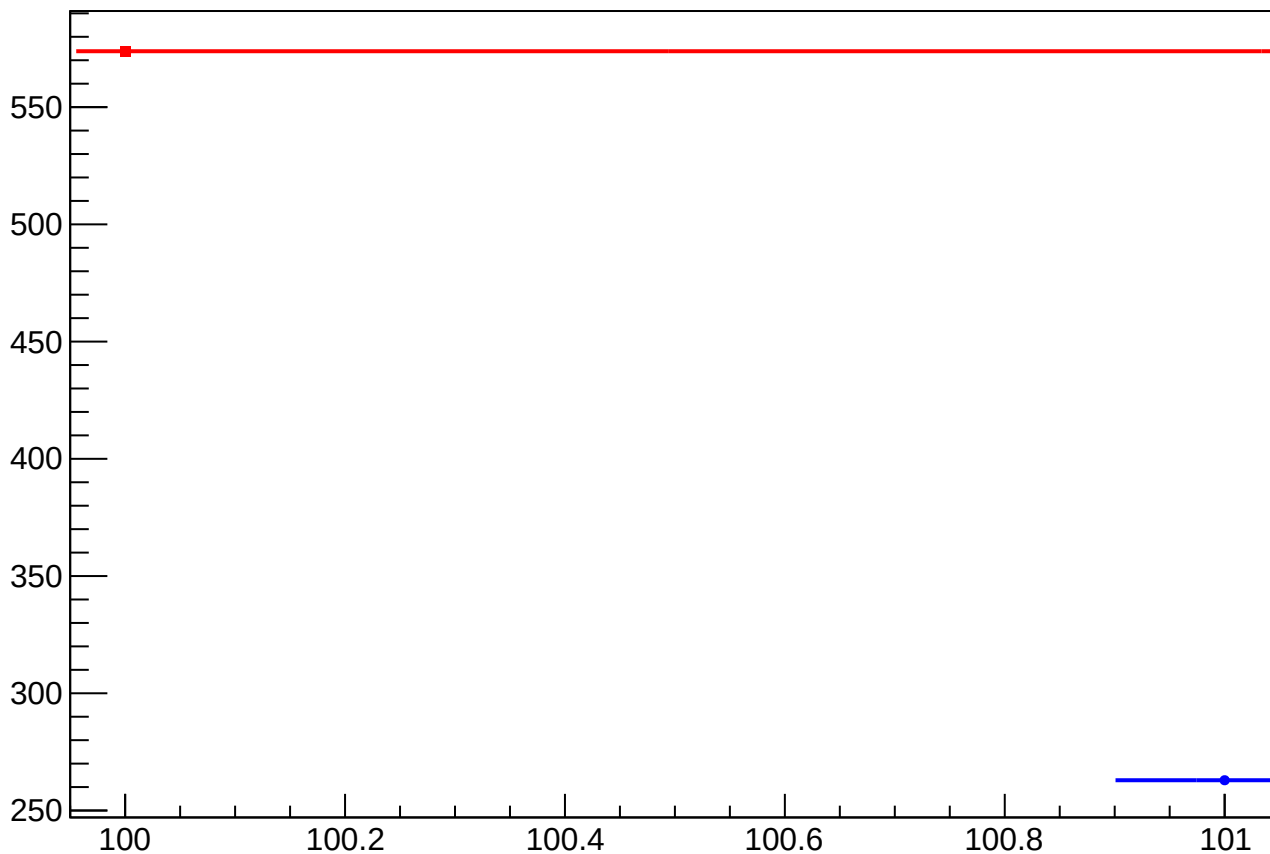
Right: 0.153+/-0.334  $\chi^2/\text{NDF}$ : 1.8/1

In: 0.222+/-0.338  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.153+/-0.334  $\chi^2/\text{NDF}$ : 1.8/1

asym\_atl1r2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 262.911 $\pm$ 0.239  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 573.845 $\pm$ 1.517  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

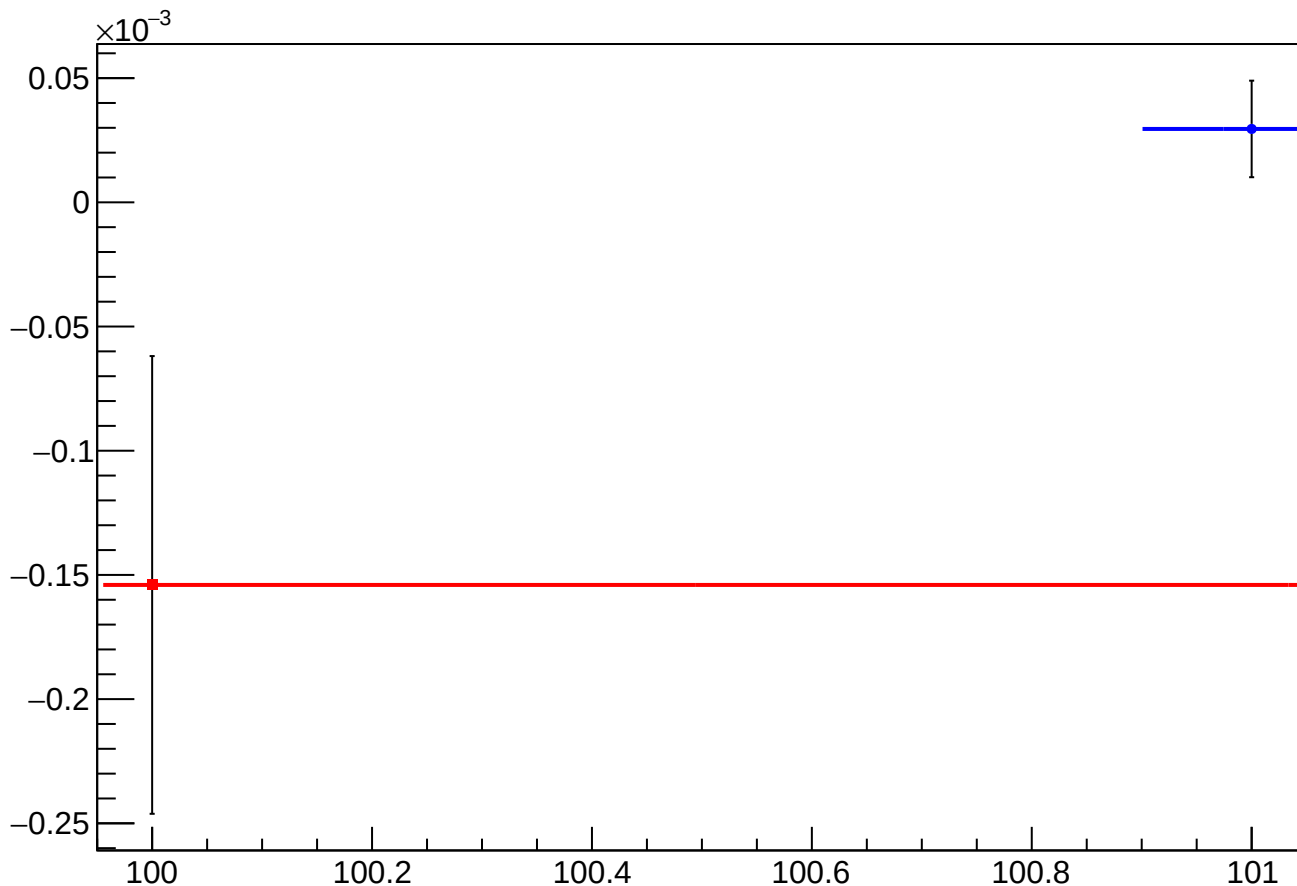
Right: 270.439 $\pm$ 0.236  $\chi^2$ /NDF: 40981.3/1

In: 262.911 $\pm$ 0.239  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 270.439 $\pm$ 0.236  $\chi^2$ /NDF: 40981.3/1

asym\_atl1r2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

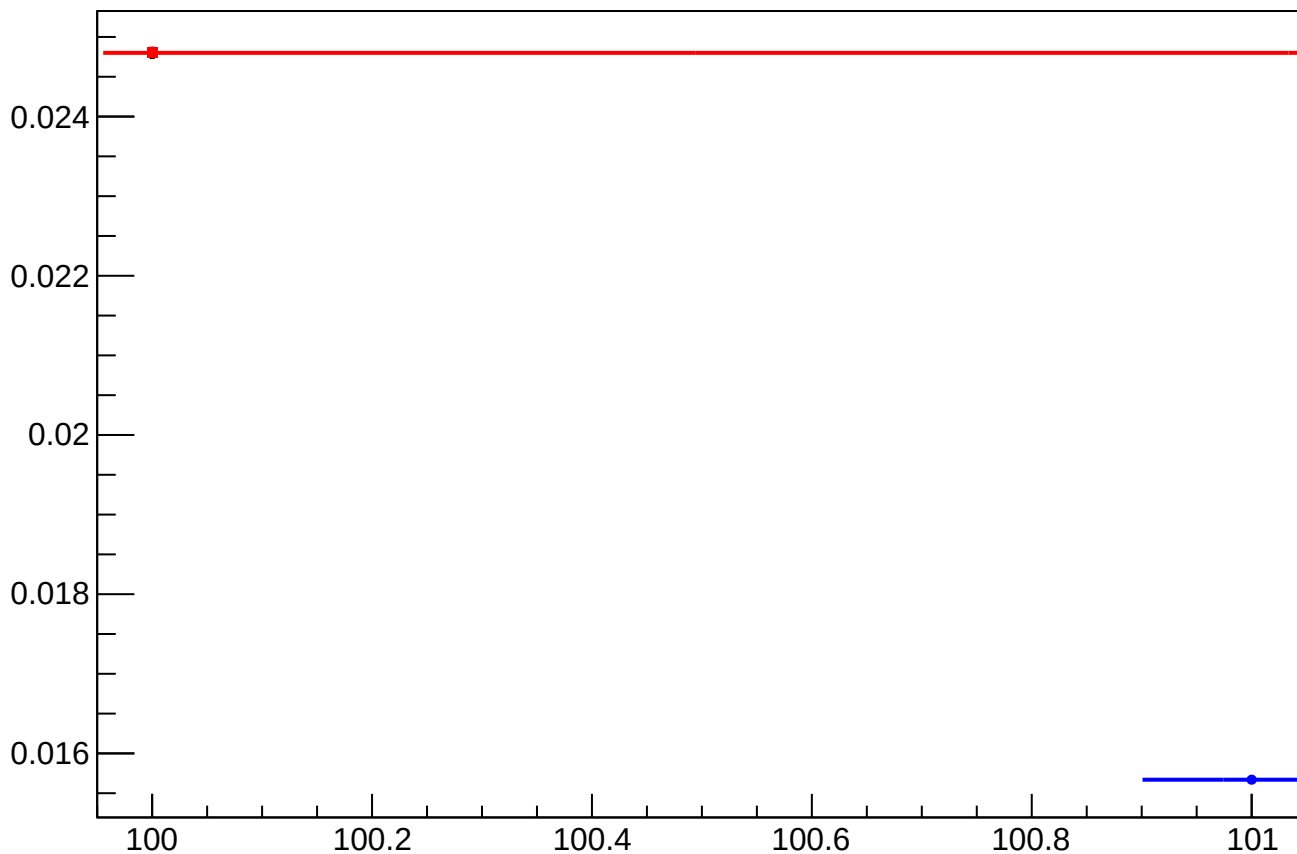
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.8/1

asym\_atl1r2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.025+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

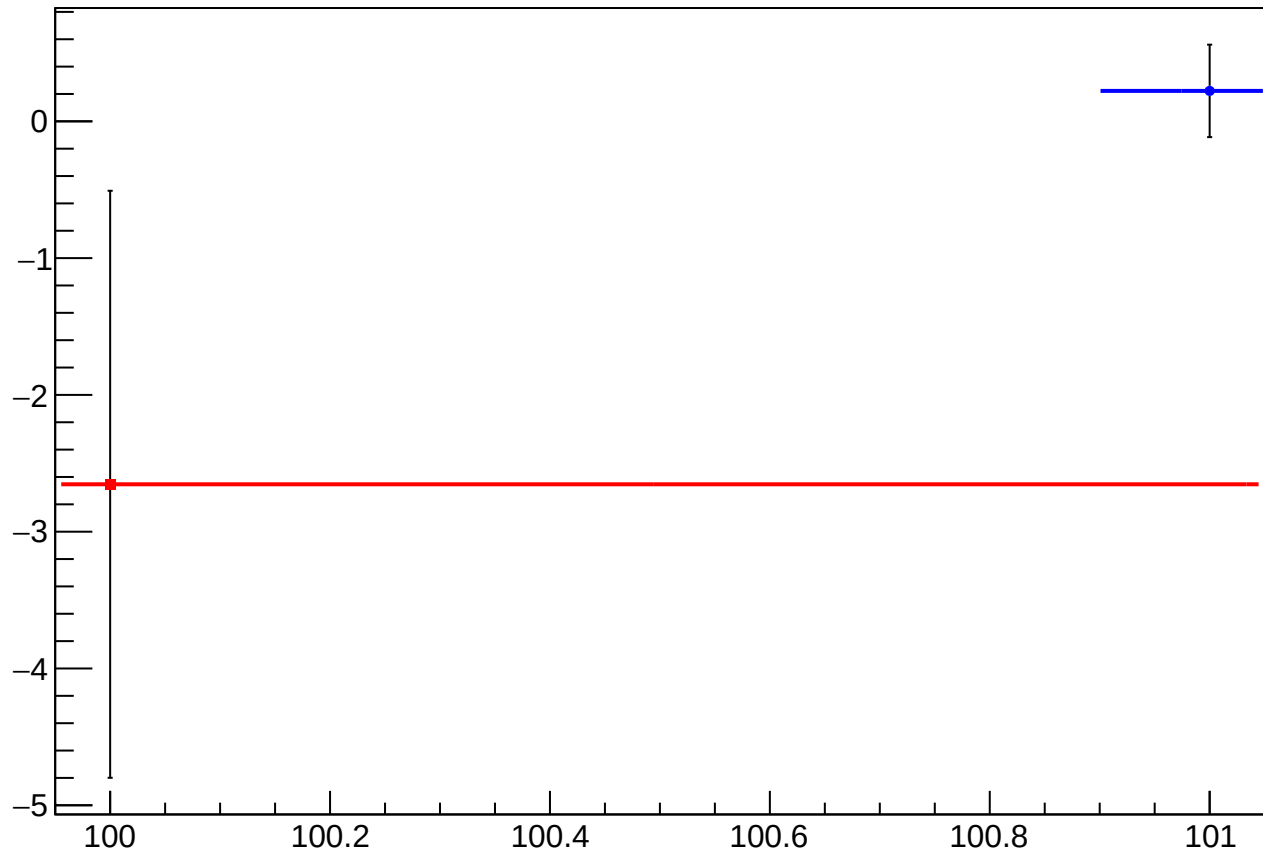
Right: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 18804.1/1

In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 18804.1/1

asym\_atl1r2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.222 $\pm$ 0.338  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.653 $\pm$ 2.146  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

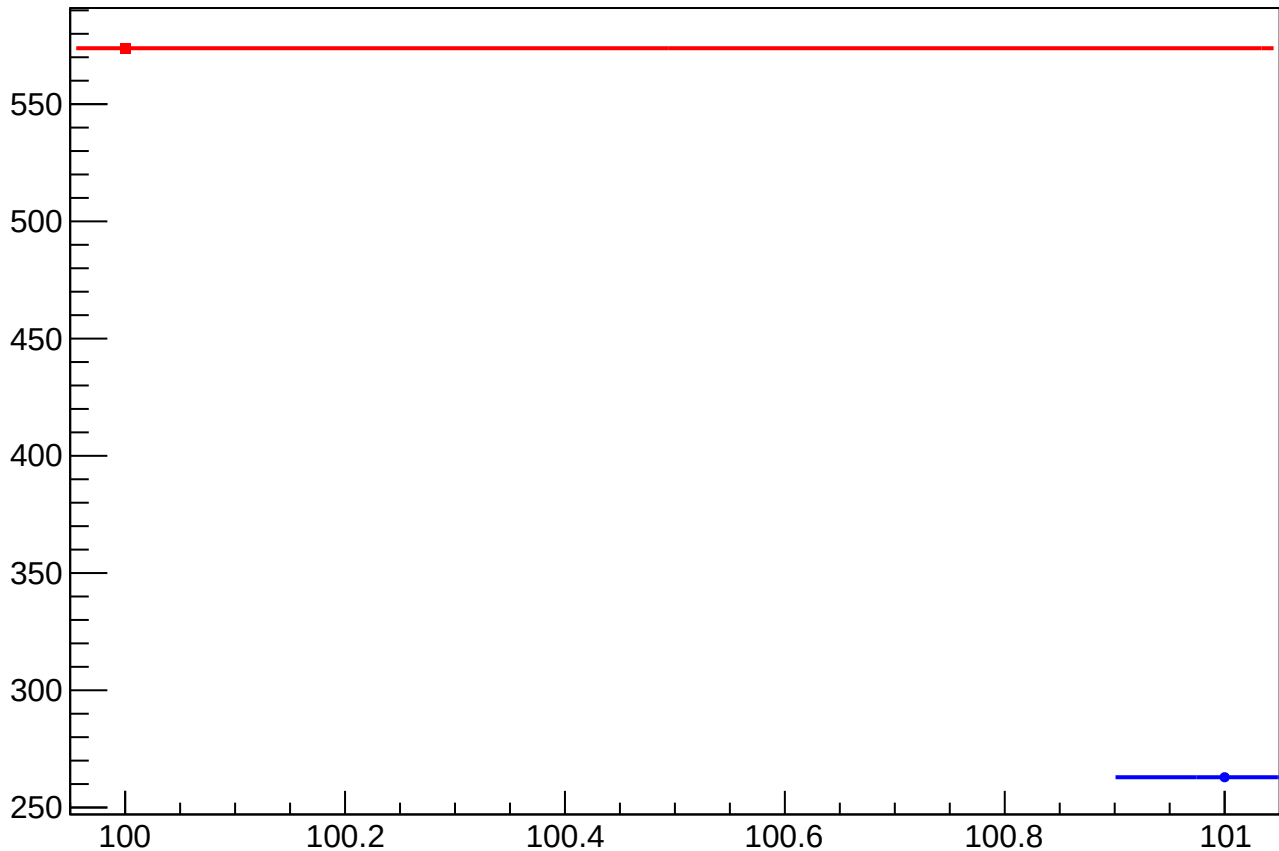
Right: 0.153 $\pm$ 0.334  $\chi^2$ /NDF: 1.8/1

In: 0.222 $\pm$ 0.338  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.153 $\pm$ 0.334  $\chi^2$ /NDF: 1.8/1

asym\_atl1r2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 262.909 $\pm$ 0.239  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 573.849 $\pm$ 1.517  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 270.436 $\pm$ 0.236  $\chi^2$ /NDF: 40982.5/1

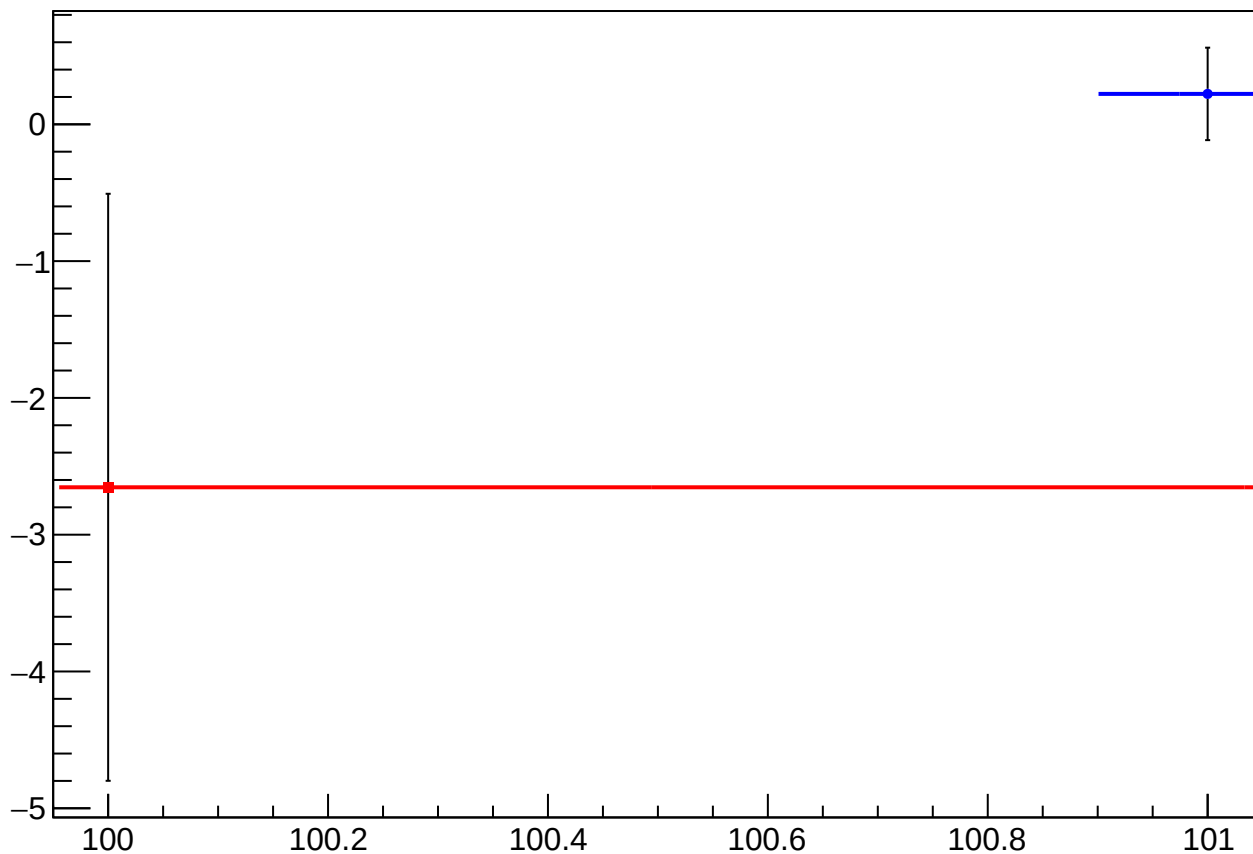
In: 262.909 $\pm$ 0.239  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 270.436 $\pm$ 0.236  $\chi^2$ /NDF: 40982.5/1



asym\_atl1r2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.222 $\pm$ 0.338  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.653 $\pm$ 2.146  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

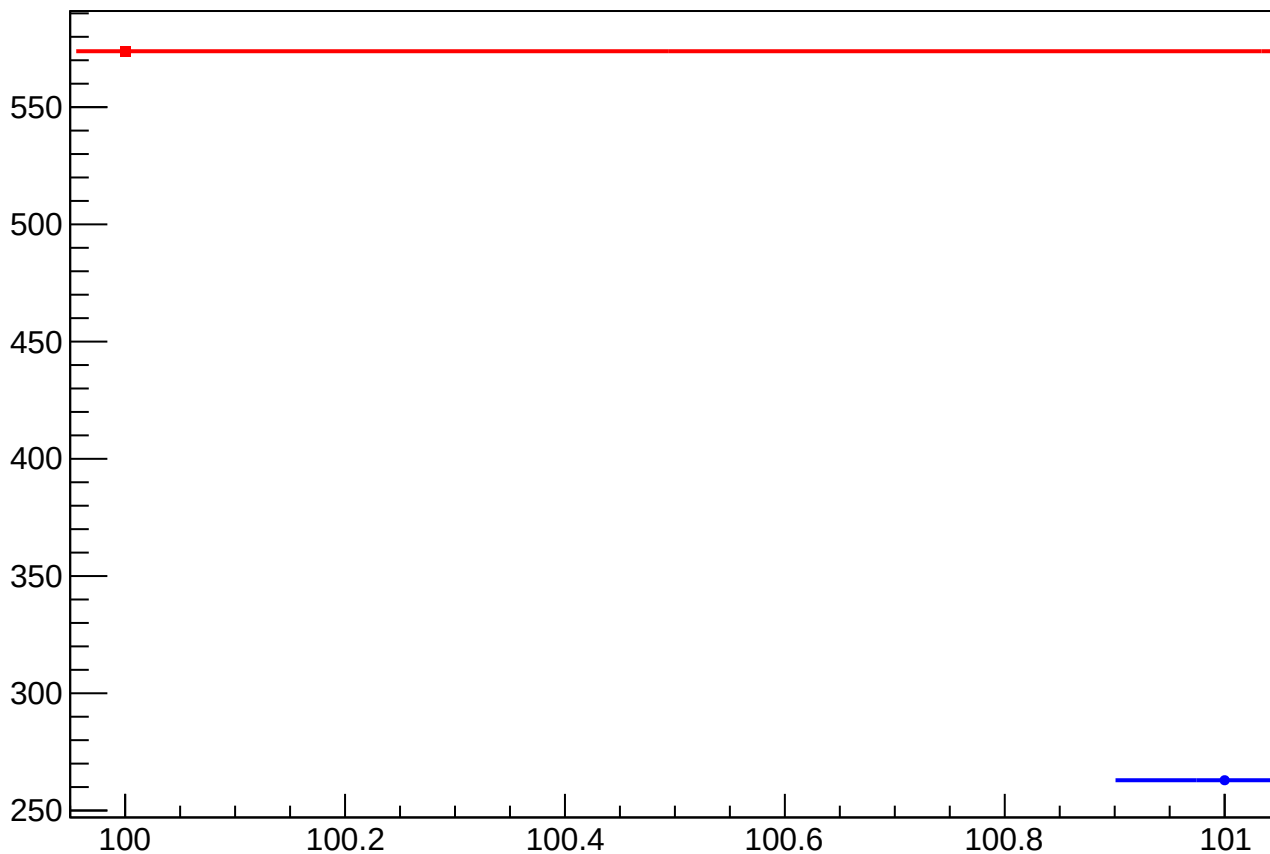
Right: 0.153 $\pm$ 0.334  $\chi^2$ /NDF: 1.8/1

In: 0.222 $\pm$ 0.338  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.153 $\pm$ 0.334  $\chi^2$ /NDF: 1.8/1

asym\_atl1r2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 262.909 $\pm$ 0.239  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 573.849 $\pm$ 1.517  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

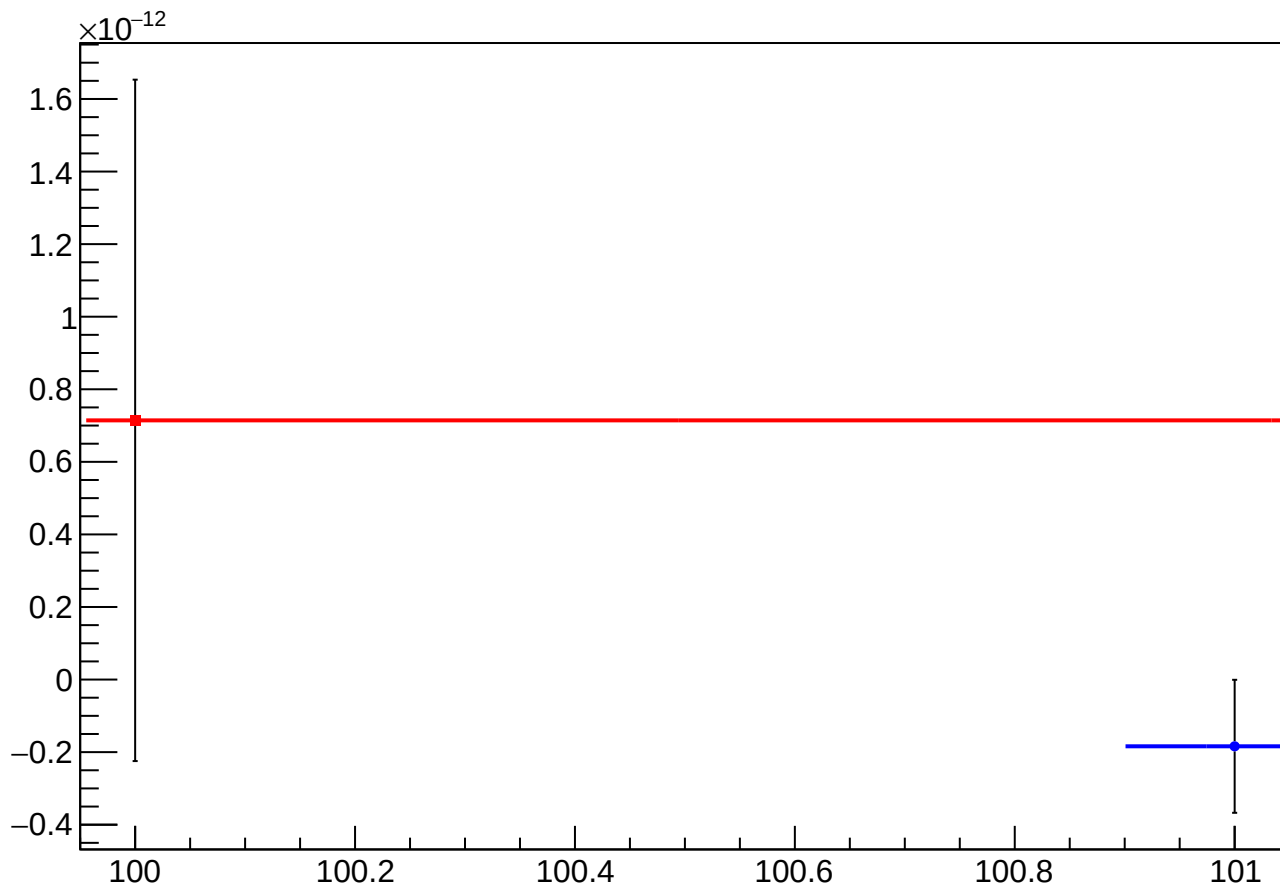
Right: 270.436 $\pm$ 0.236  $\chi^2/\text{NDF}$ : 40982.5/1

In: 262.909 $\pm$ 0.239  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 270.436 $\pm$ 0.236  $\chi^2/\text{NDF}$ : 40982.5/1

asym\_atl1r2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

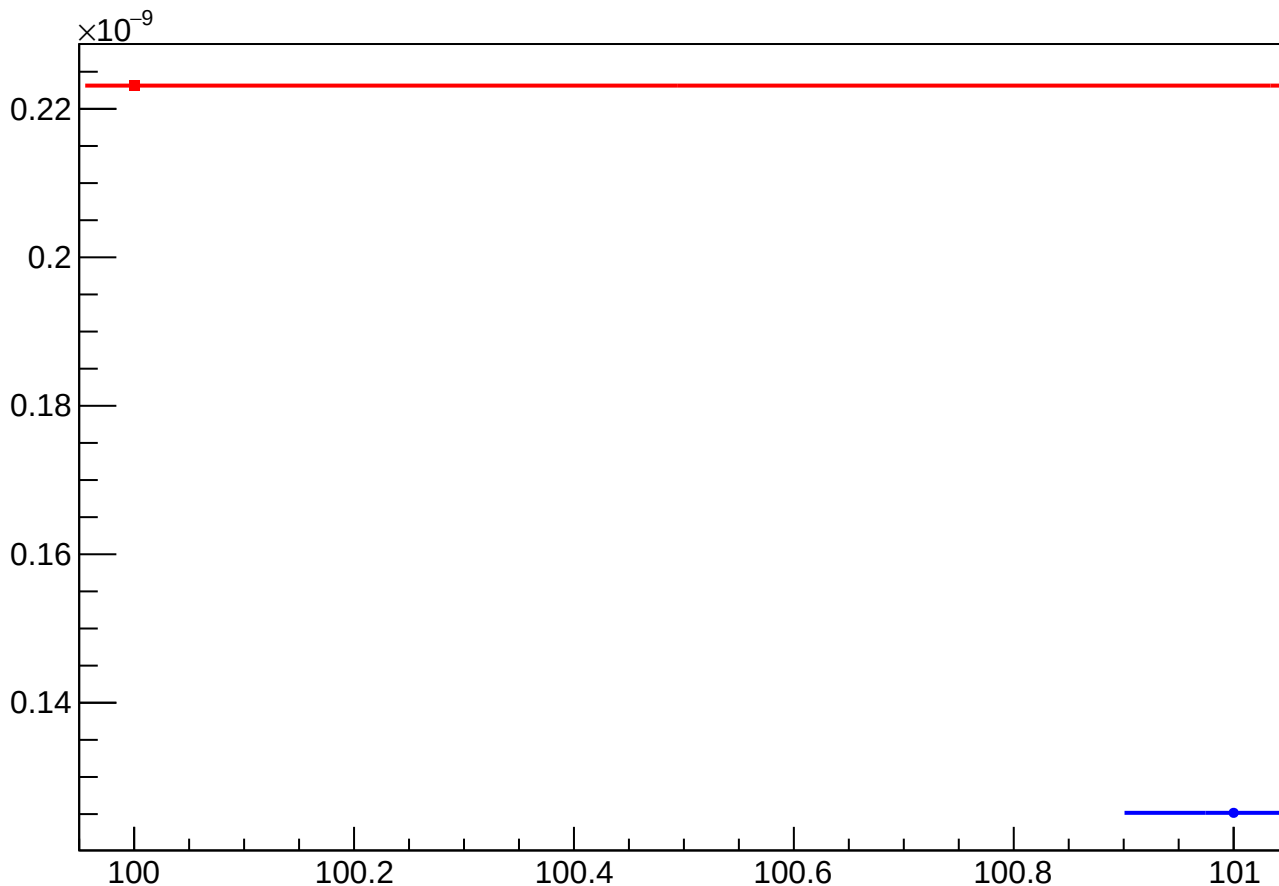
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

asym\_atl1r2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

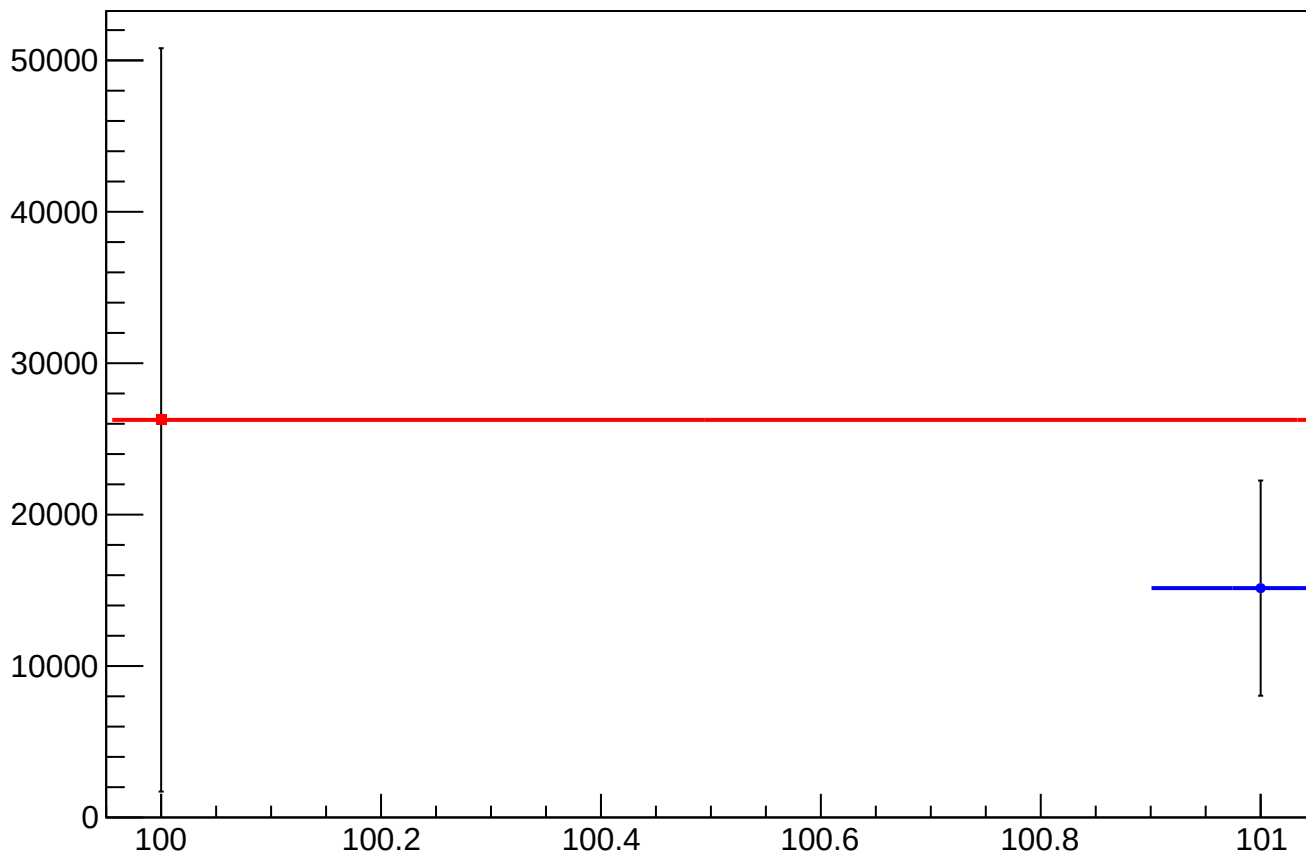
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20972.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20972.9/1

reg\_asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



Right In: 15146.233+/-7105.586  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26257.641+/-24548.662  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

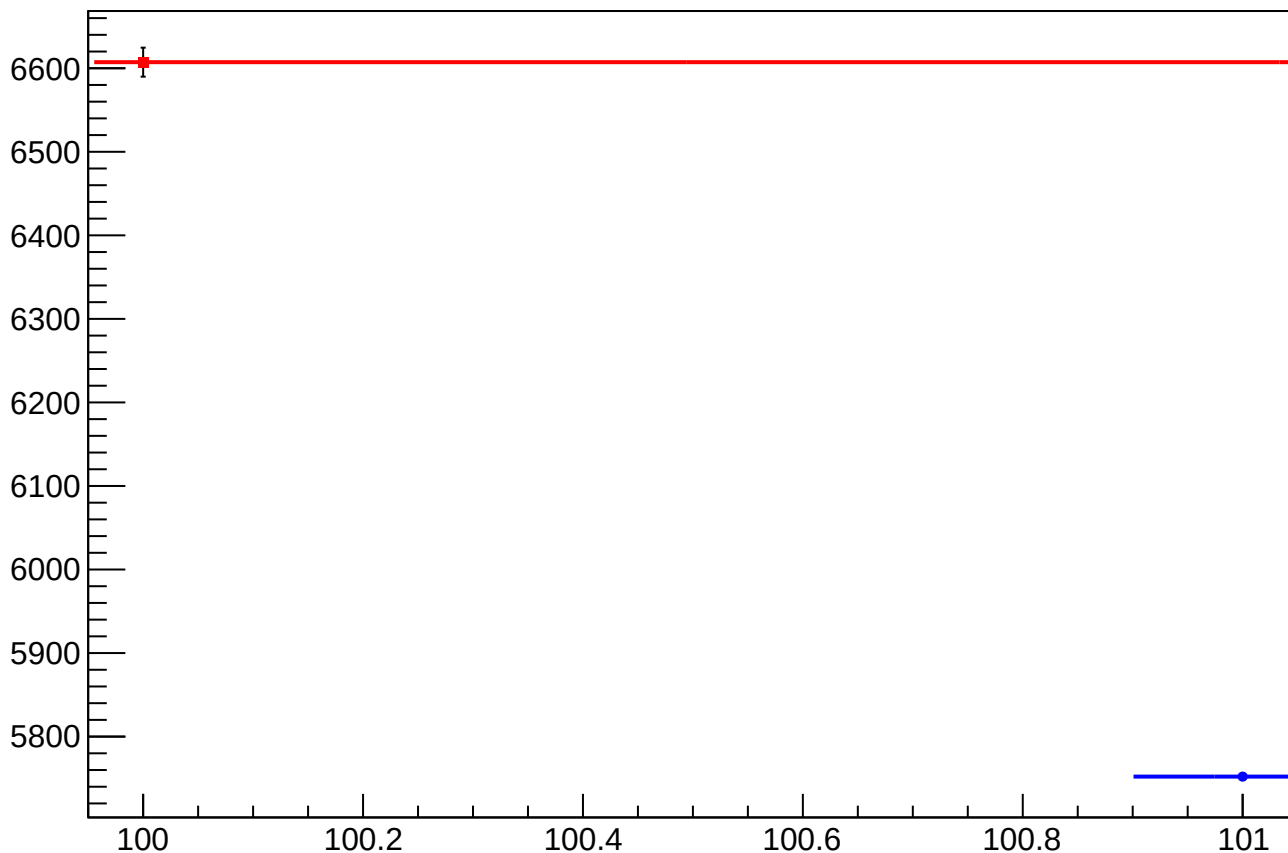
Right: 16005.191+/-6825.417  $\chi^2/\text{NDF}$ : 0.2/1

In: 15146.233+/-7105.586  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16005.191+/-6825.417  $\chi^2/\text{NDF}$ : 0.2/1

# reg\_asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



Right In: 5752.122+/-5.024  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6607.272+/-17.359  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

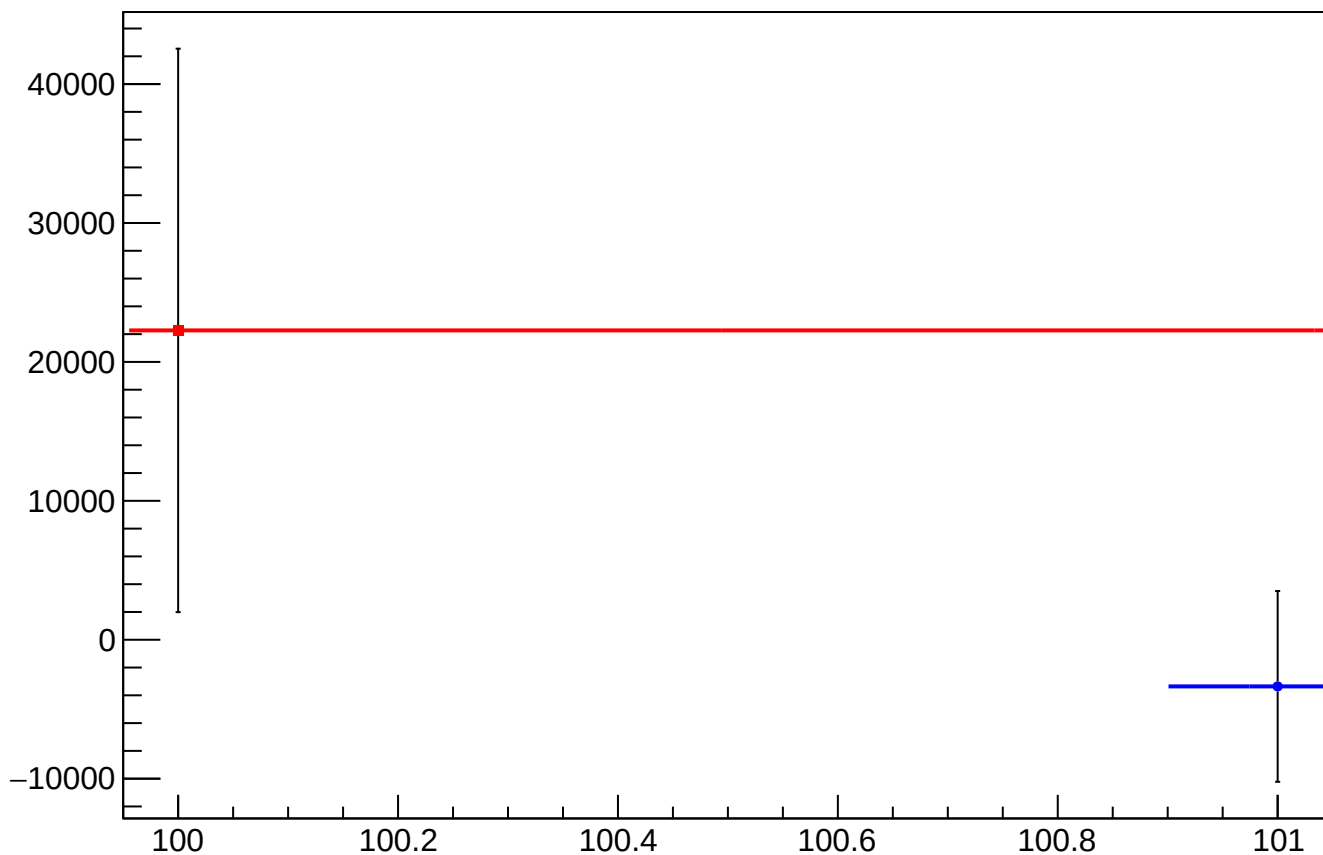
Right: 5818.229+/-4.826  $\chi^2/\text{NDF}$ : 2239.3/1

In: 5752.122+/-5.024  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5818.229+/-4.826  $\chi^2/\text{NDF}$ : 2239.3/1

asym\_atr1l2\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -3358.143+/-6866.930  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22268.044+/-20281.112  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

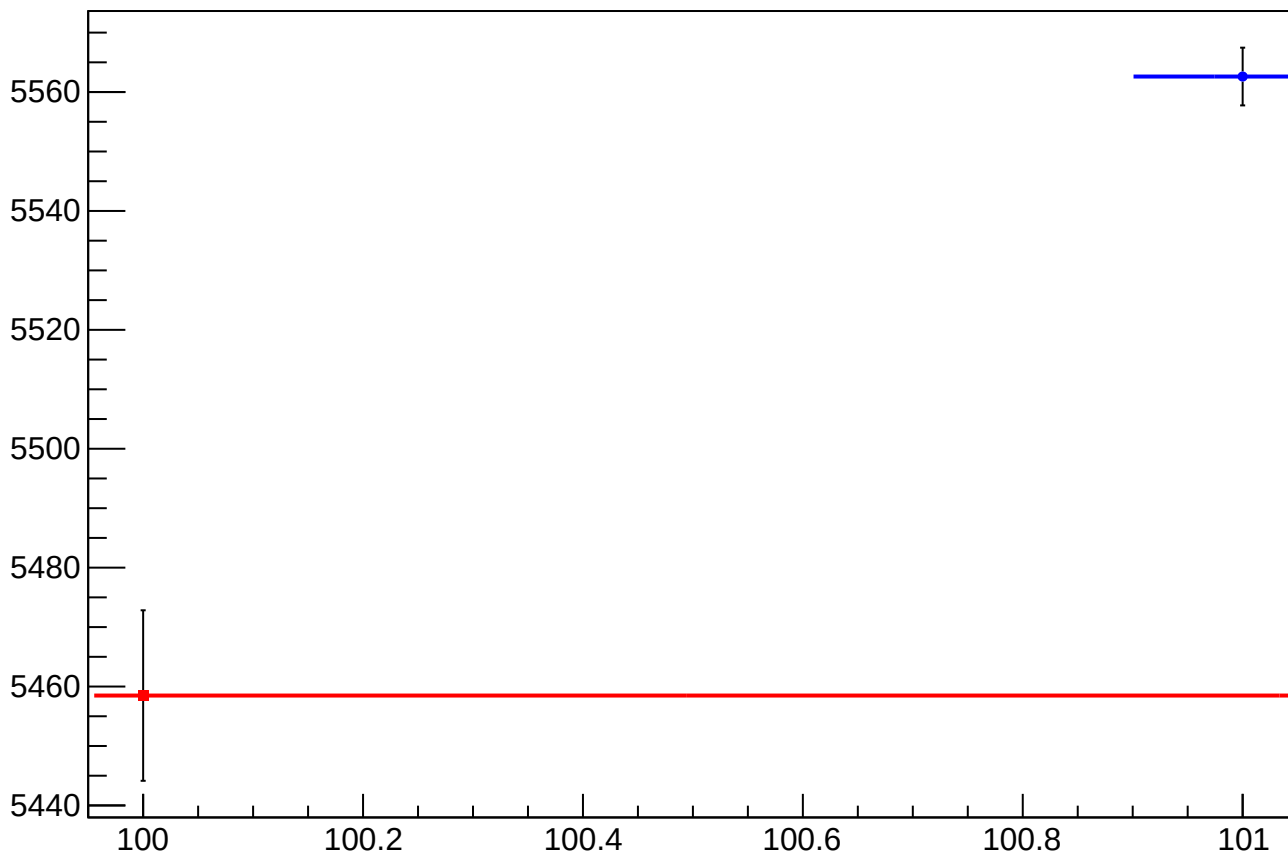
Right: -722.476+/-6504.217  $\chi^2/\text{NDF}$ : 1.4/1

In: -3358.143+/-6866.930  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -722.476+/-6504.217  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atr1l2\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 5562.610 $\pm$ 4.856  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5458.485 $\pm$ 14.341  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 5551.901 $\pm$ 4.599  $\chi^2$ /NDF: 47.3/1

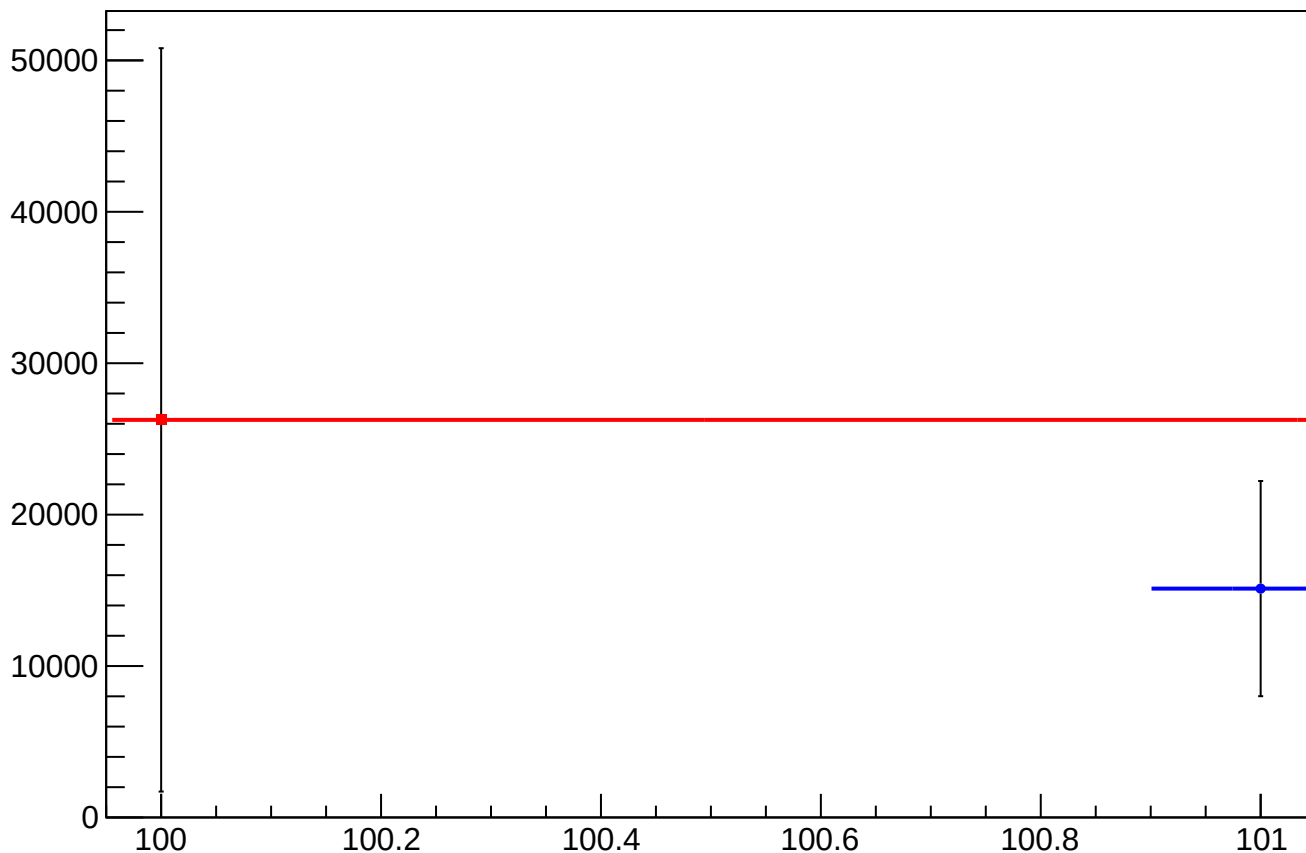
In: 5562.610 $\pm$ 4.856  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5551.901 $\pm$ 4.599  $\chi^2$ /NDF: 47.3/1



cor\_asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



Right In: 15114.498 $\pm$ 7105.623  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26257.778 $\pm$ 24548.662  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

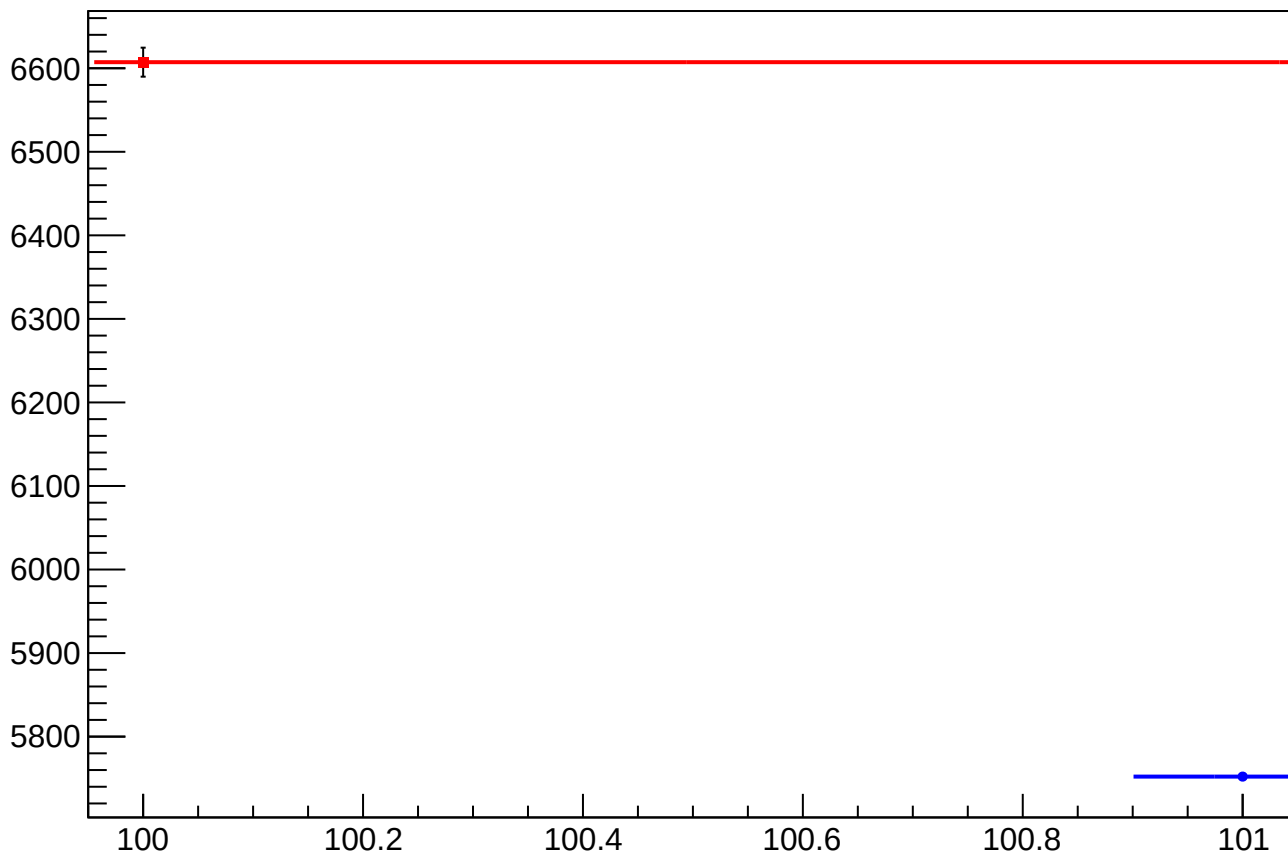
Right: 15975.927 $\pm$ 6825.450  $\chi^2/\text{NDF}$ : 0.2/1

In: 15114.498 $\pm$ 7105.623  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15975.927 $\pm$ 6825.450  $\chi^2/\text{NDF}$ : 0.2/1

cor\_asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



Right In: 5752.142 $\pm$ 5.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6607.272 $\pm$ 17.359  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

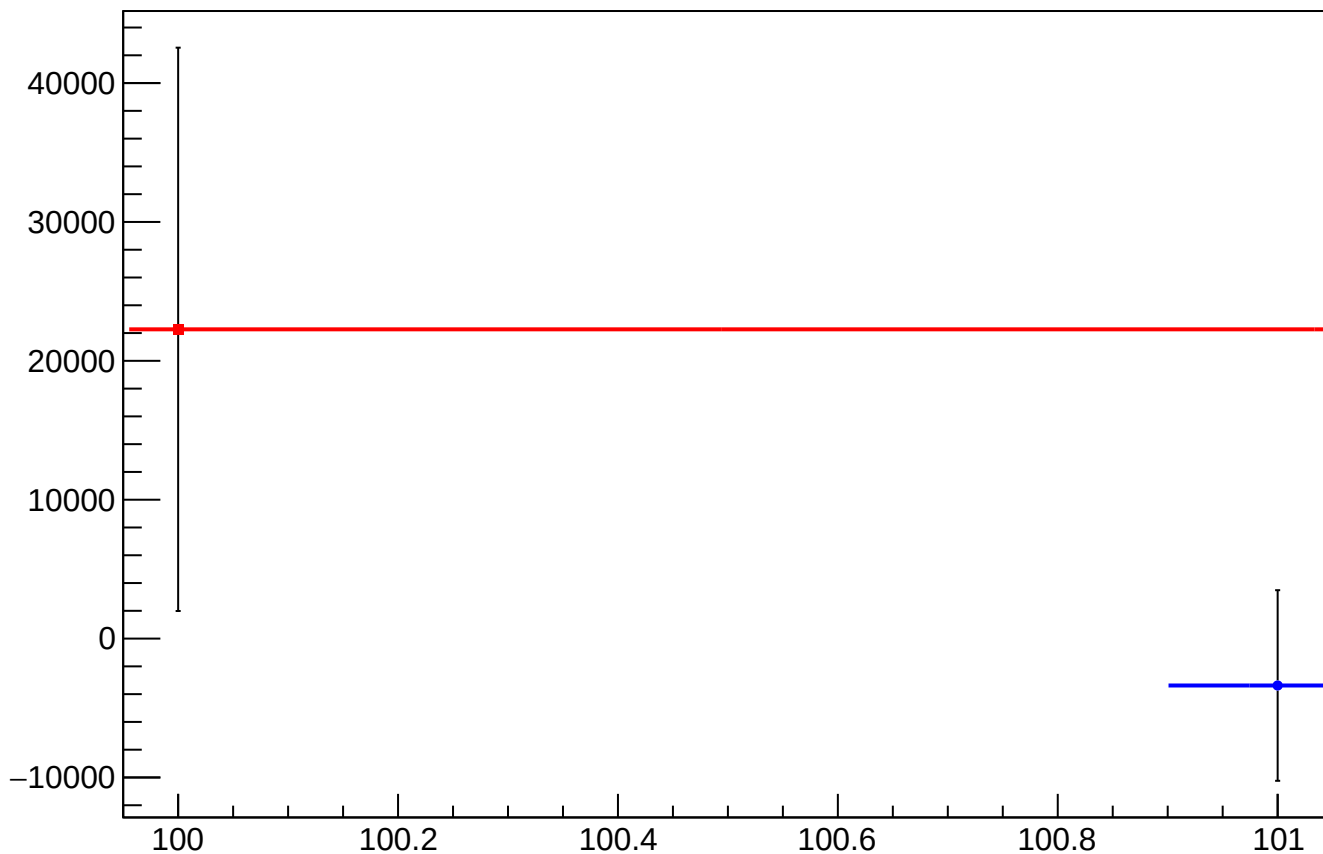
Right: 5818.248 $\pm$ 4.826  $\chi^2$ /NDF: 2239.2/1

In: 5752.142 $\pm$ 5.024  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5818.248 $\pm$ 4.826  $\chi^2$ /NDF: 2239.2/1

asym\_atr1l2\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3377.261+/-6862.316  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22268.166+/-20281.115  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

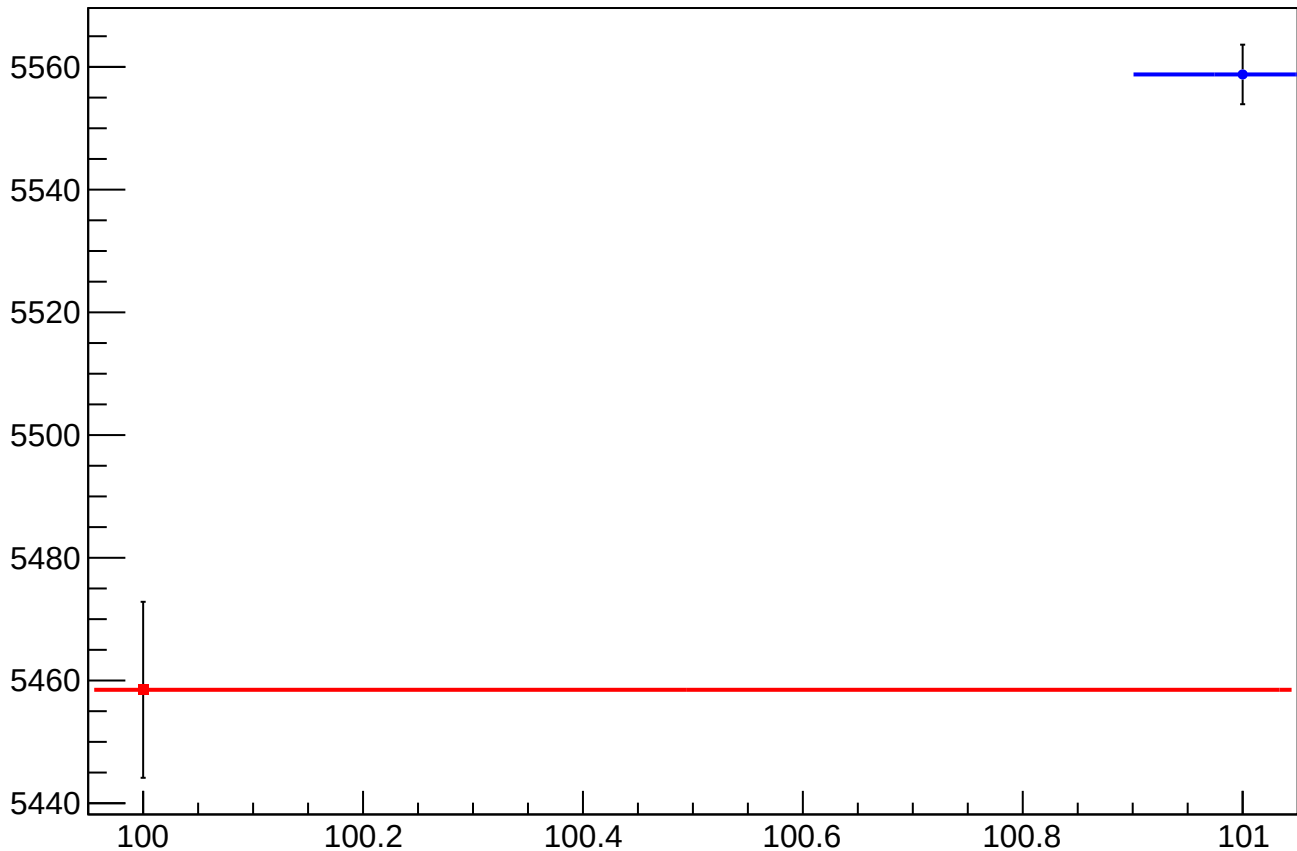
Right: -742.795+/-6500.296  $\chi^2/\text{NDF}$ : 1.4/1

In: -3377.261+/-6862.316  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -742.795+/-6500.296  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atr1l2\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5558.773 $\pm$ 4.852  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5458.486 $\pm$ 14.341  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

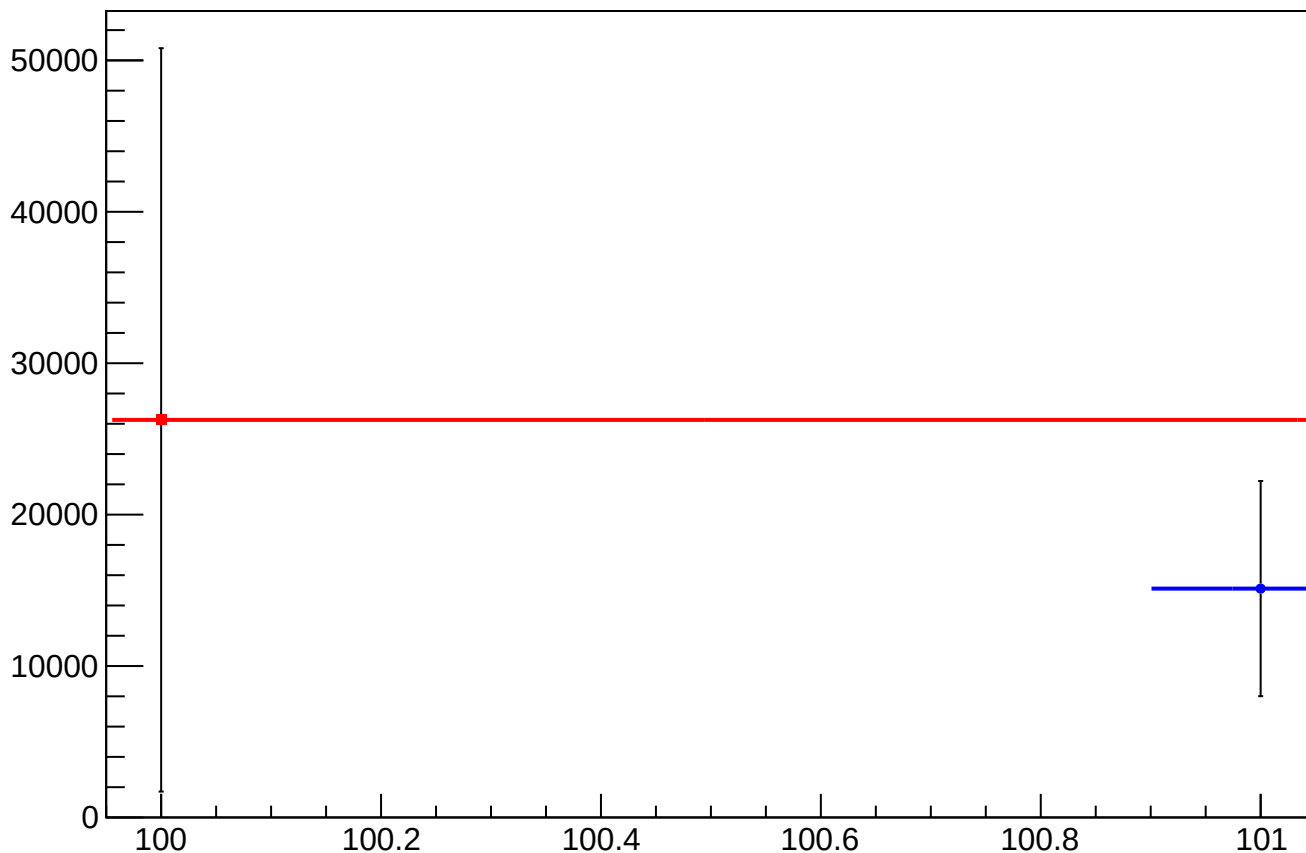
Right: 5548.471 $\pm$ 4.596  $\chi^2/\text{NDF}$ : 43.9/1

In: 5558.773 $\pm$ 4.852  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5548.471 $\pm$ 4.596  $\chi^2/\text{NDF}$ : 43.9/1

eigen\_cor\_asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



Right In: 15114.498+/-7105.623  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26257.778+/-24548.662  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

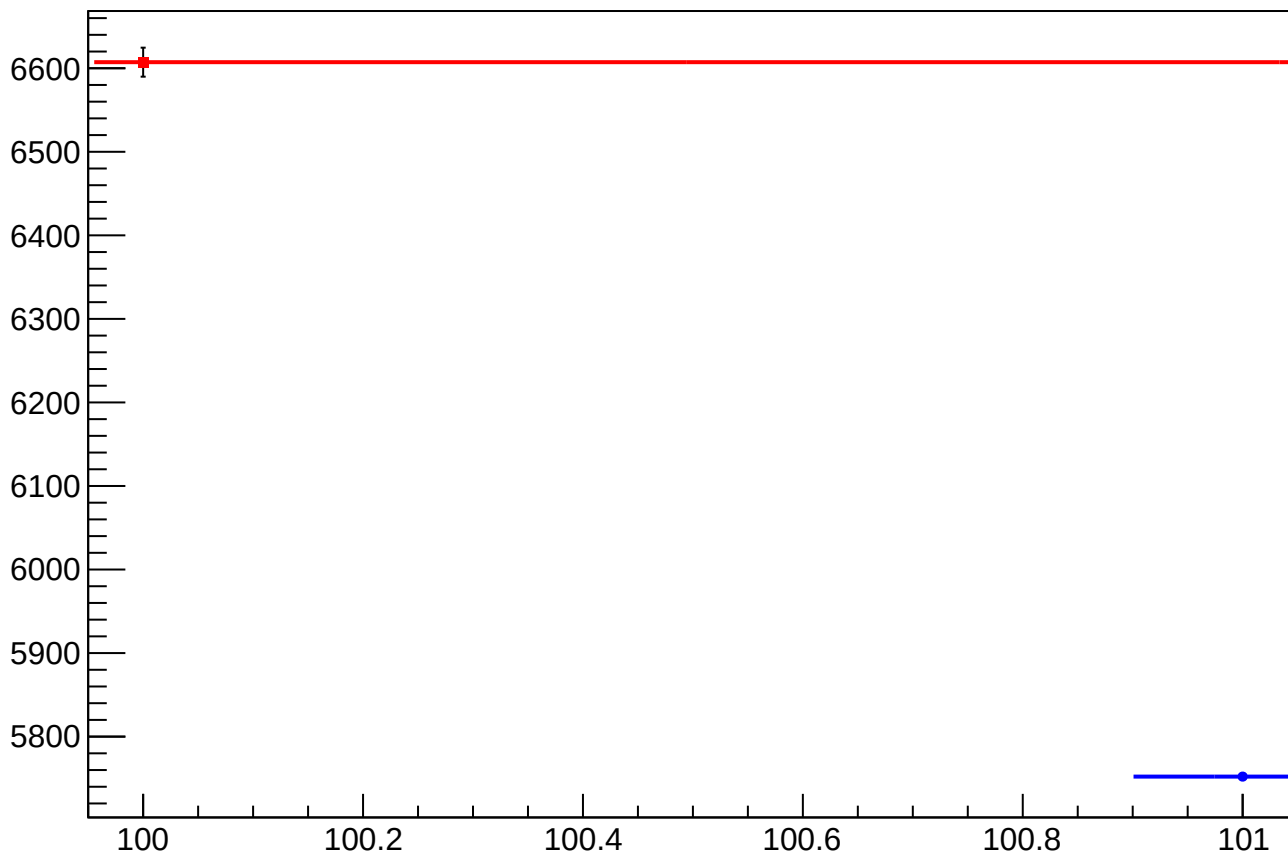
Right: 15975.927+/-6825.450  $\chi^2/\text{NDF}$ : 0.2/1

In: 15114.498+/-7105.623  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15975.927+/-6825.450  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_cor\_asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



Right In: 5752.142 $\pm$ 5.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6607.272 $\pm$ 17.359  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

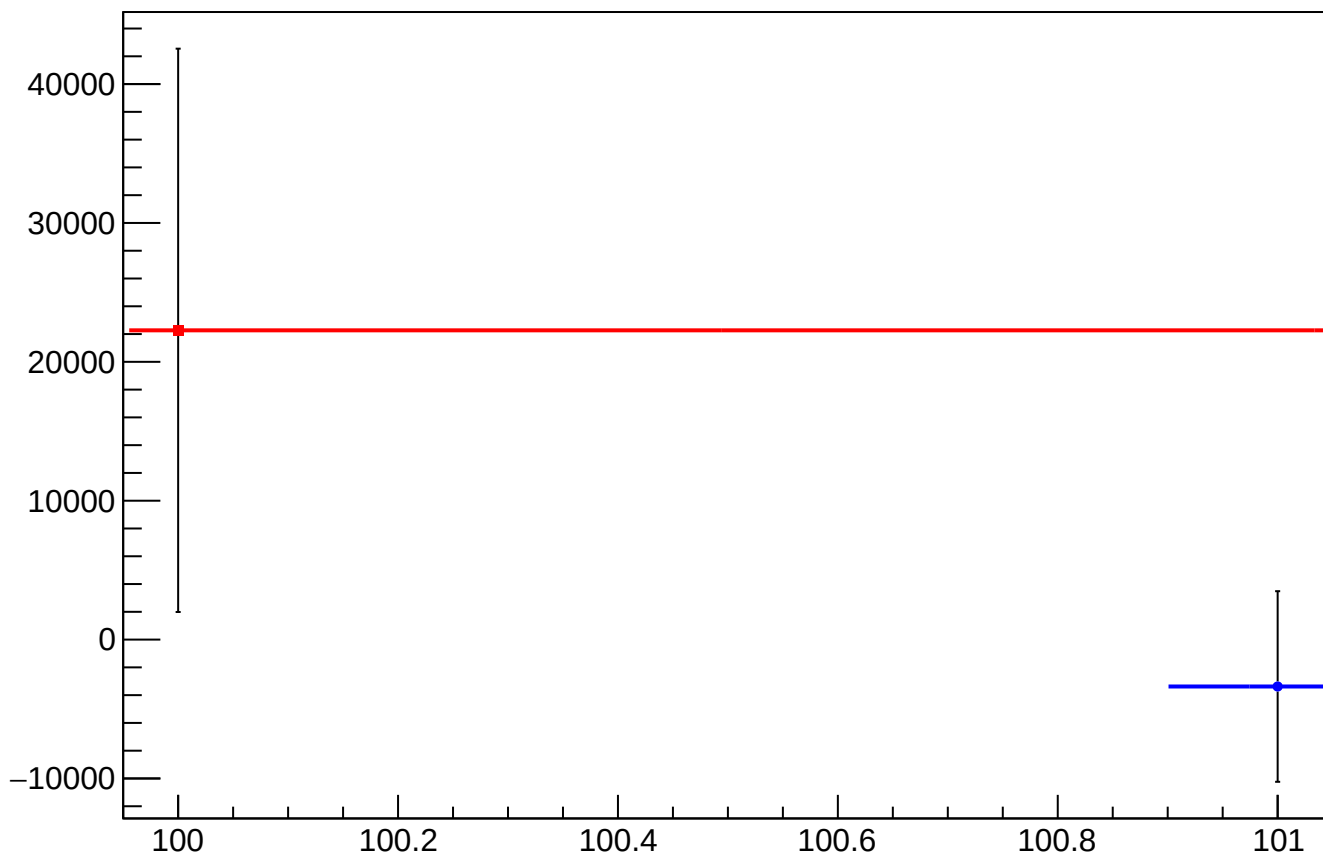
Right: 5818.248 $\pm$ 4.826  $\chi^2$ /NDF: 2239.2/1

In: 5752.142 $\pm$ 5.024  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5818.248 $\pm$ 4.826  $\chi^2$ /NDF: 2239.2/1

asym\_atr1l2\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3377.261+/-6862.316  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22268.166+/-20281.115  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

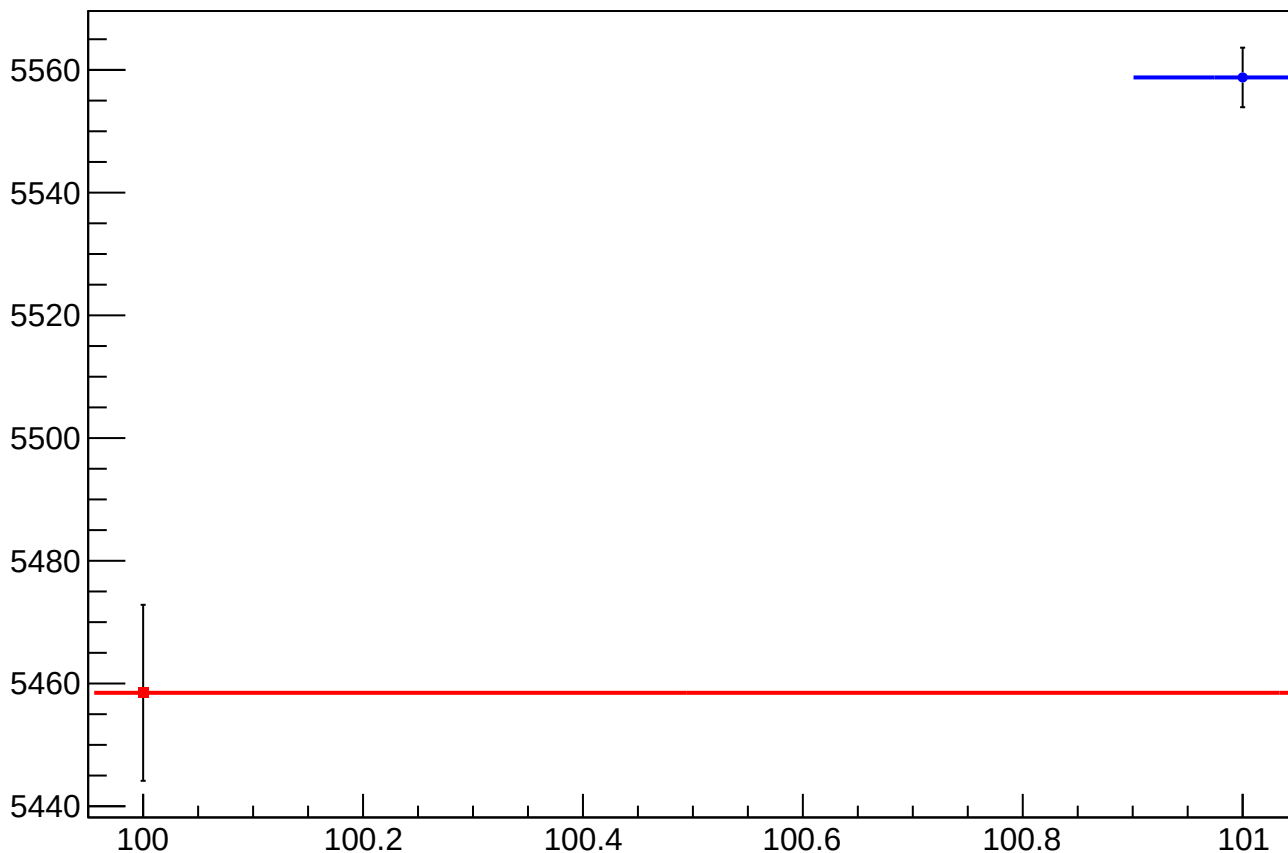
Right: -742.795+/-6500.296  $\chi^2/\text{NDF}$ : 1.4/1

In: -3377.261+/-6862.316  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -742.795+/-6500.296  $\chi^2/\text{NDF}$ : 1.4/1

asym\_atr1l2\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5558.773+/-4.852  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5458.486+/-14.341  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 5548.471+/-4.596  $\chi^2/\text{NDF}$ : 43.9/1

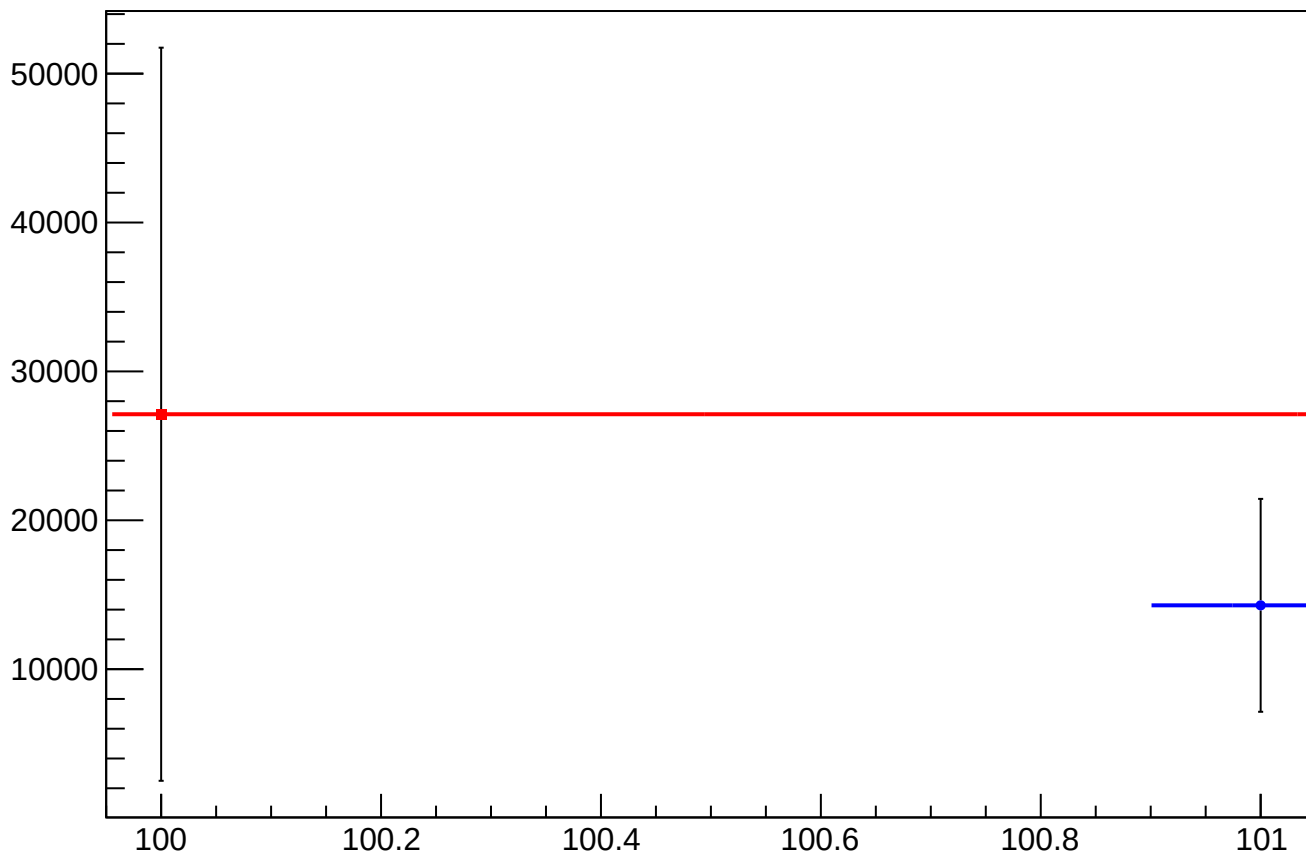
In: 5558.773+/-4.852  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5548.471+/-4.596  $\chi^2/\text{NDF}$ : 43.9/1



dit\_asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



Right In: 14287.761+/-7150.055  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27123.447+/-24621.152  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

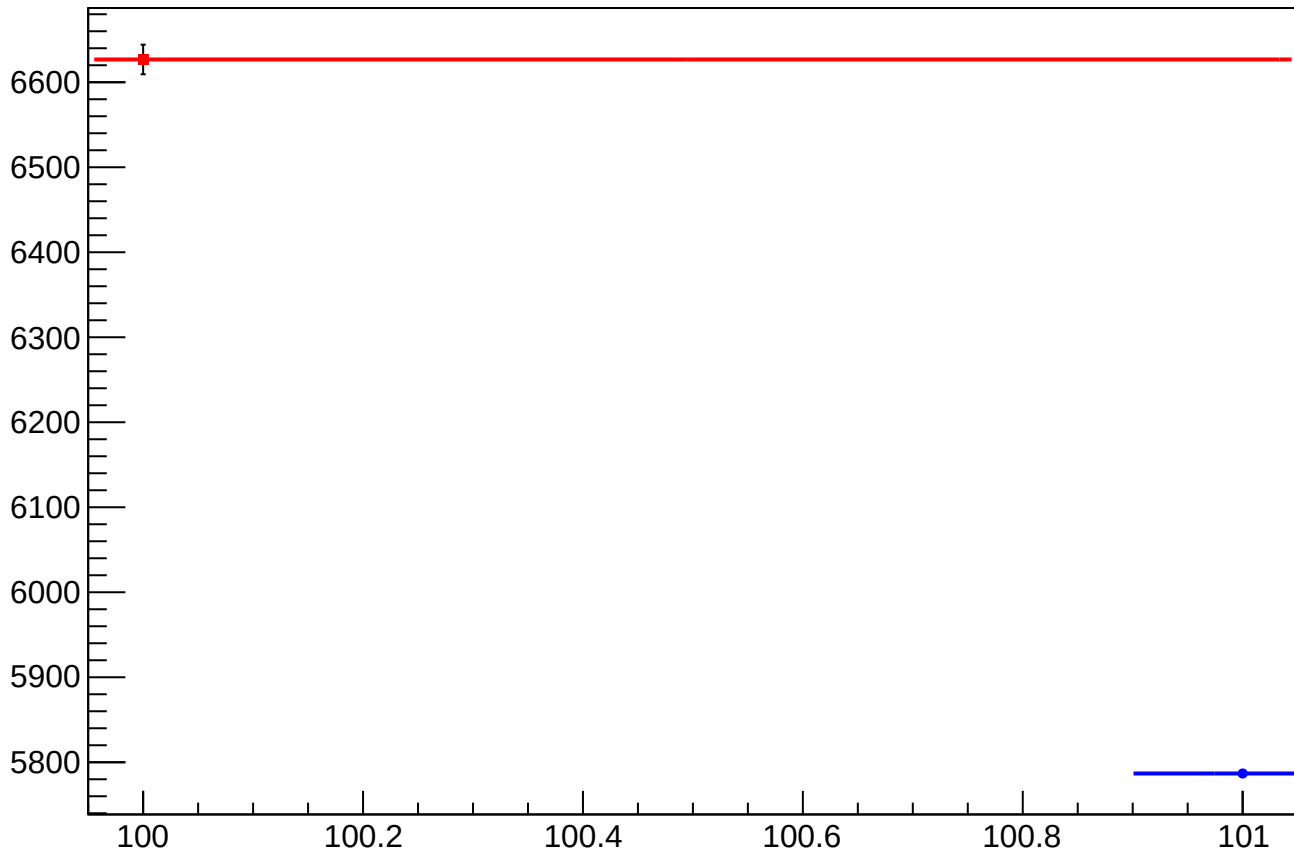
Right: 15286.054+/-6866.380  $\chi^2/\text{NDF}$ : 0.3/1

In: 14287.761+/-7150.055  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15286.054+/-6866.380  $\chi^2/\text{NDF}$ : 0.3/1

# dit\_asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



Right In: 5786.779+/-5.056  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6626.796+/-17.410  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

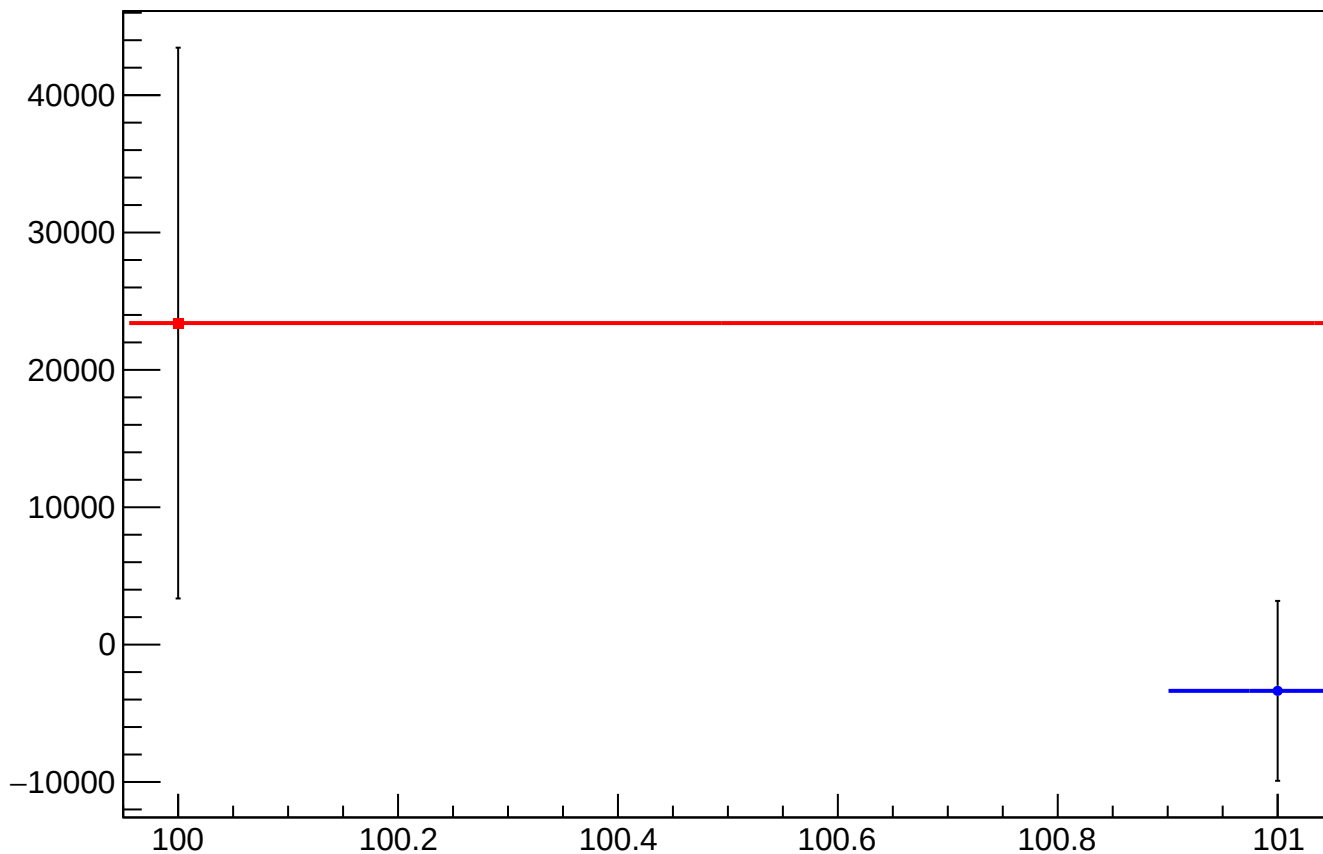
Right: 5852.111+/-4.855  $\chi^2/\text{NDF}$ : 2147.0/1

In: 5786.779+/-5.056  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5852.111+/-4.855  $\chi^2/\text{NDF}$ : 2147.0/1

asym\_atr1l2\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3365.689+/-6547.950  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23408.598+/-20048.641  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

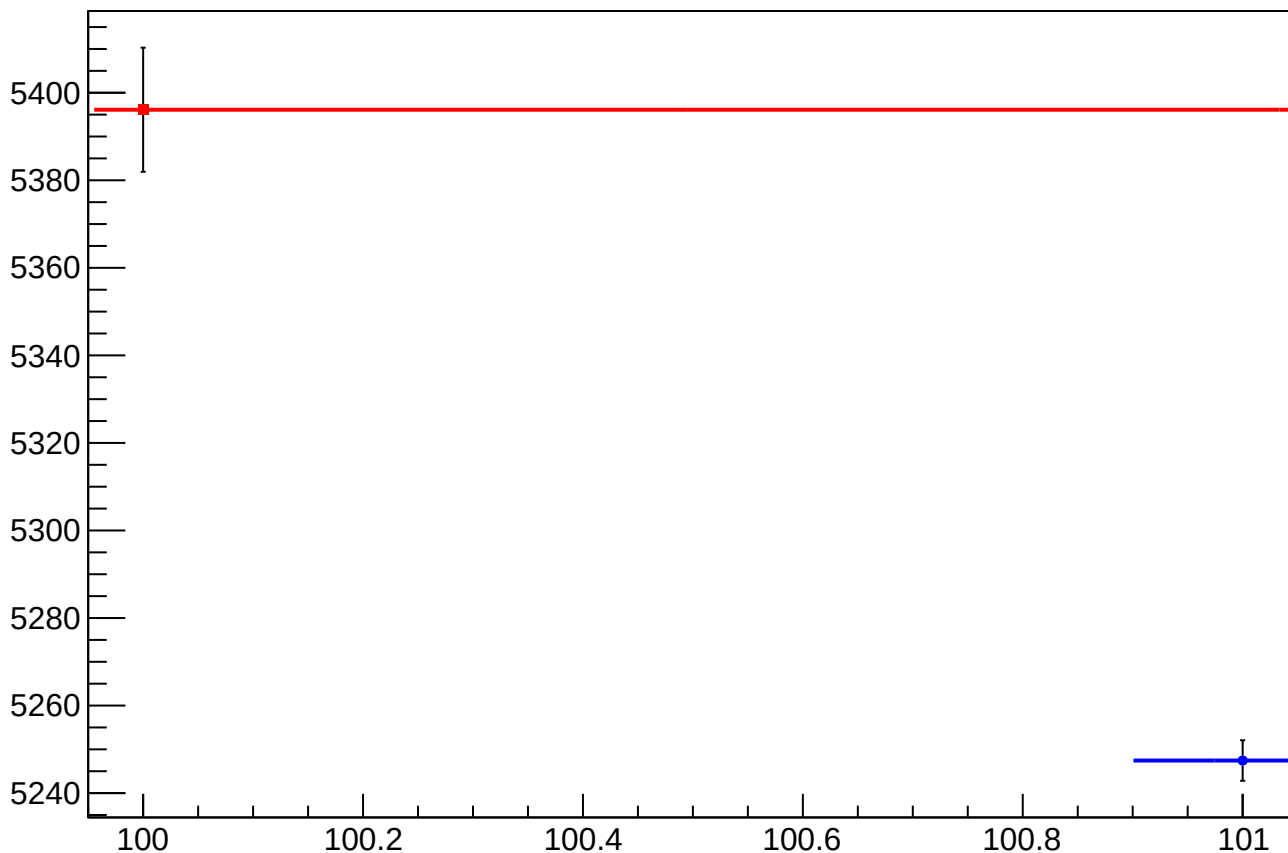
Right: -784.970+/-6224.384  $\chi^2/\text{NDF}$ : 1.6/1

In: -3365.689+/-6547.950  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -784.970+/-6224.384  $\chi^2/\text{NDF}$ : 1.6/1

asym\_atr1l2\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5247.444+/-4.630  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5396.119+/-14.177  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

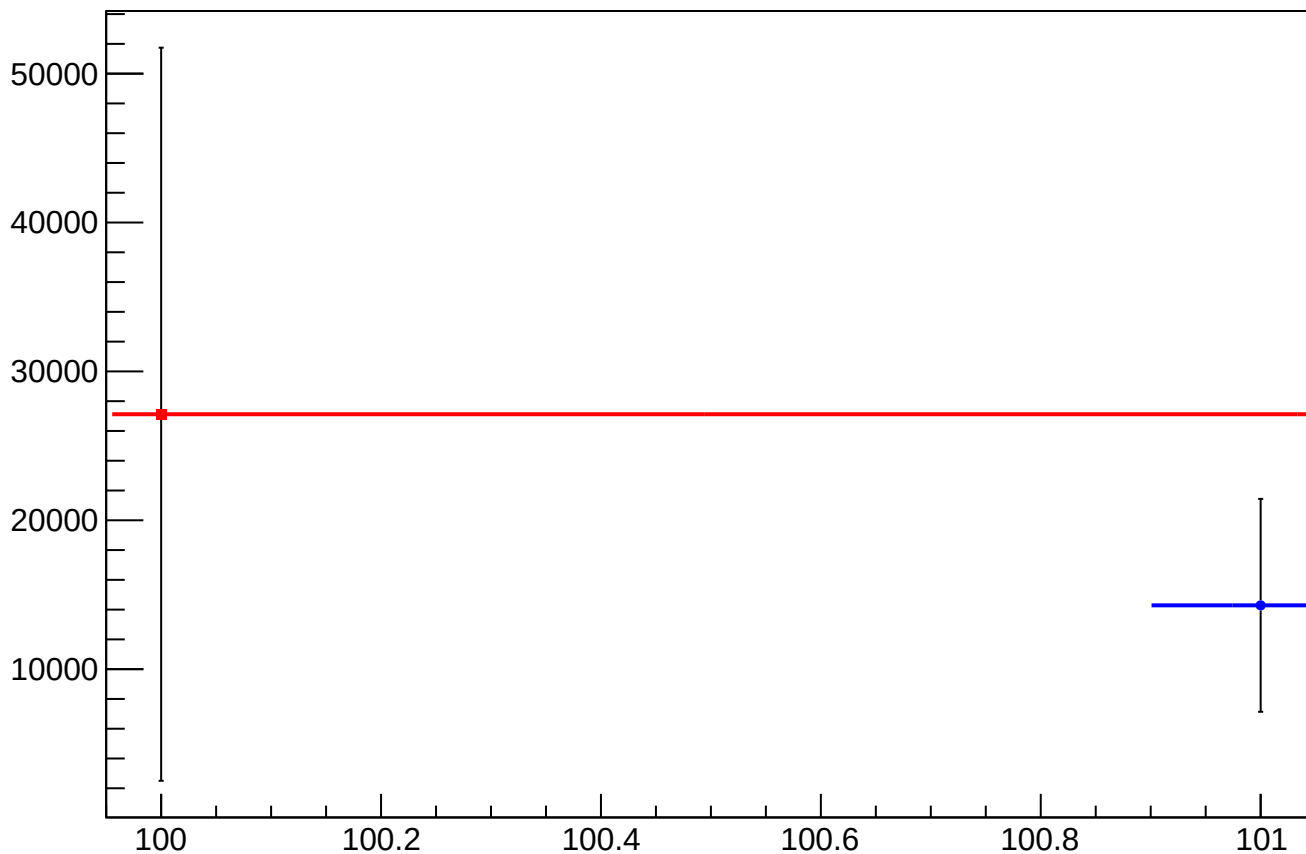
Right: 5261.775+/-4.401  $\chi^2/\text{NDF}$ : 99.4/1

In: 5247.444+/-4.630  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5261.775+/-4.401  $\chi^2/\text{NDF}$ : 99.4/1

eigen\_dit\_asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



Right In: 14287.763+/-7150.055  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27123.426+/-24621.153  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

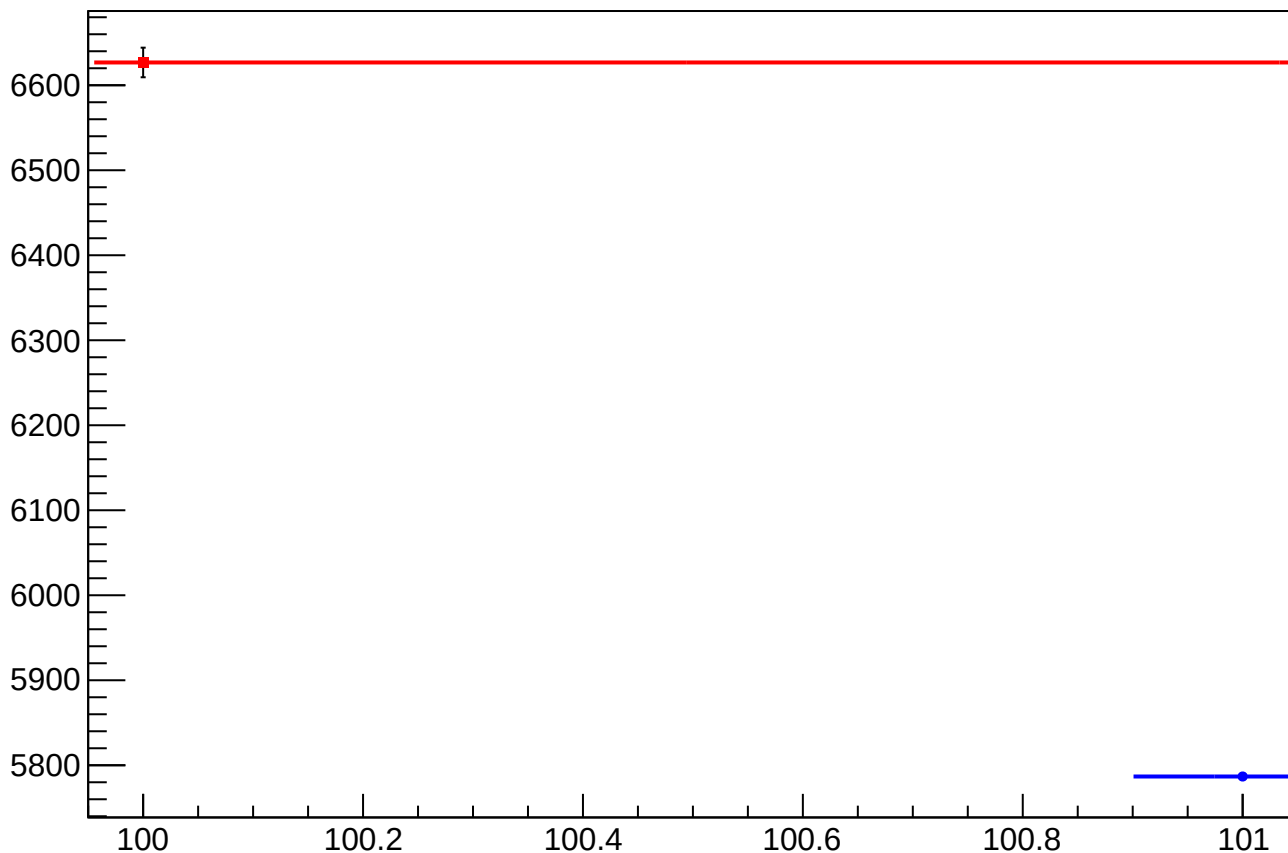
Right: 15286.055+/-6866.380  $\chi^2/\text{NDF}$ : 0.3/1

In: 14287.763+/-7150.055  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15286.055+/-6866.380  $\chi^2/\text{NDF}$ : 0.3/1

eigen\_dit\_asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



Right In: 5786.779+/-5.056  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6626.797+/-17.410  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

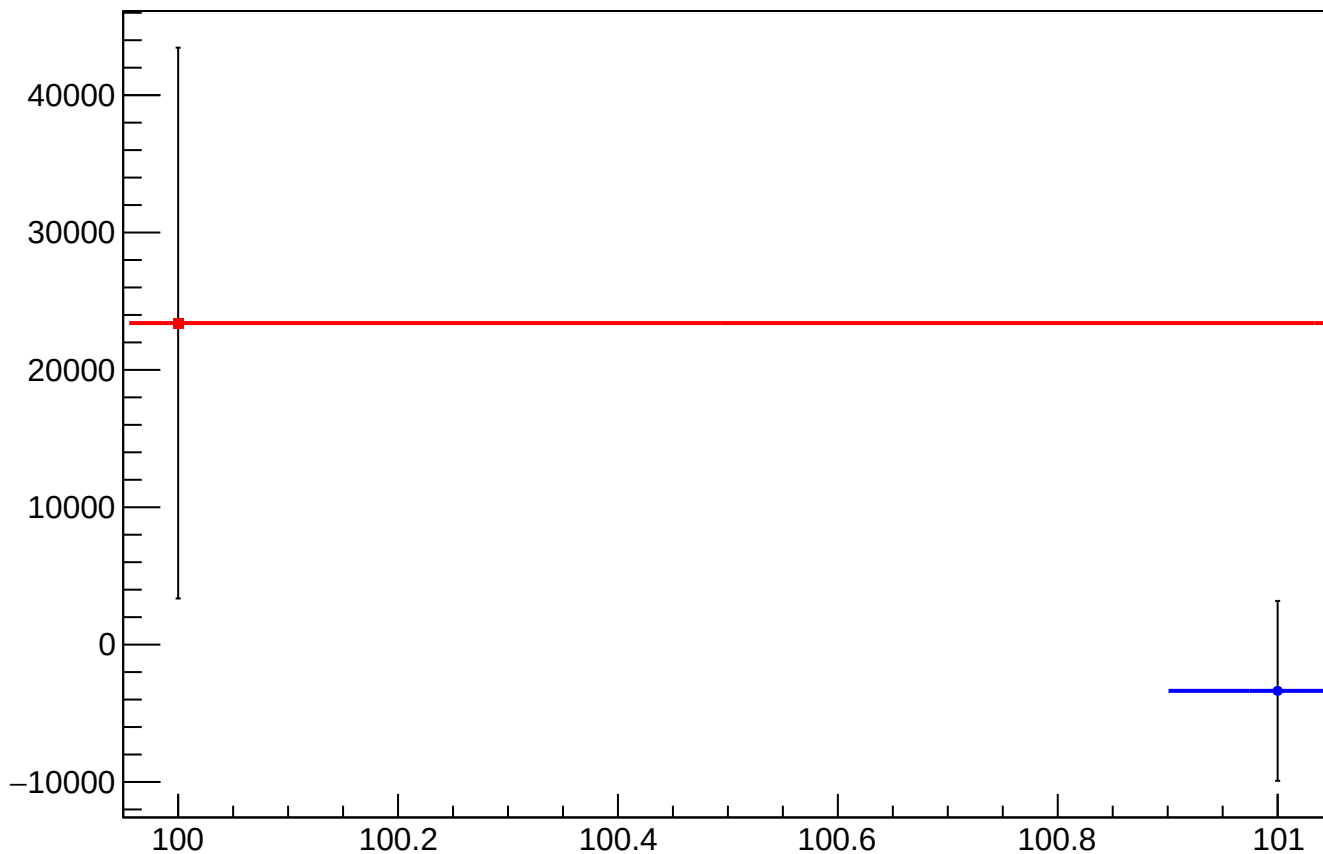
Right: 5852.111+/-4.855  $\chi^2/\text{NDF}$ : 2147.0/1

In: 5786.779+/-5.056  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5852.111+/-4.855  $\chi^2/\text{NDF}$ : 2147.0/1

asym\_atr1l2\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3365.687+/-6547.940  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23408.577+/-20048.610  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

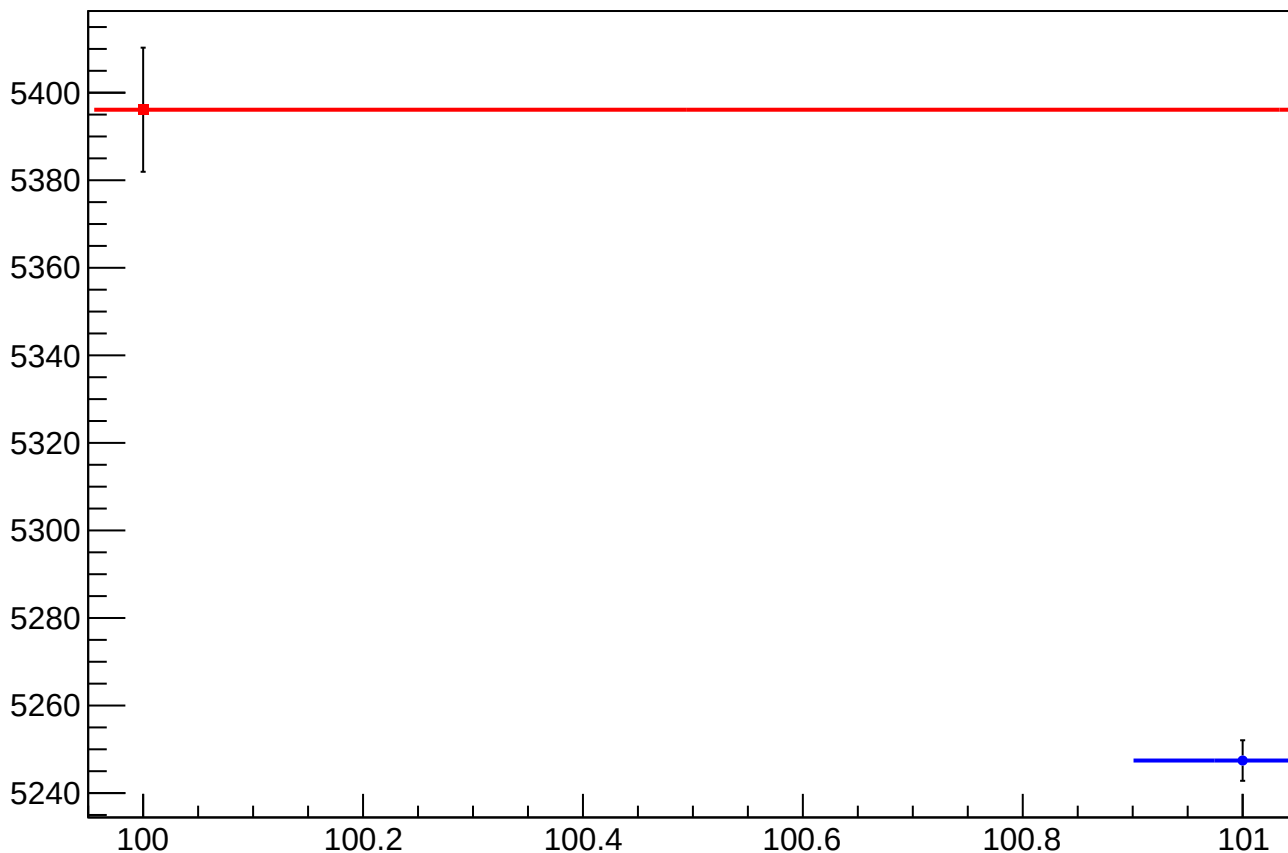
Right: -784.970+/-6224.374  $\chi^2/\text{NDF}$ : 1.6/1

In: -3365.687+/-6547.940  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -784.970+/-6224.374  $\chi^2/\text{NDF}$ : 1.6/1

asym\_atr1l2\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5247.437 $\pm$ 4.630  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5396.111 $\pm$ 14.177  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 5261.767 $\pm$ 4.401  $\chi^2$ /NDF: 99.4/1

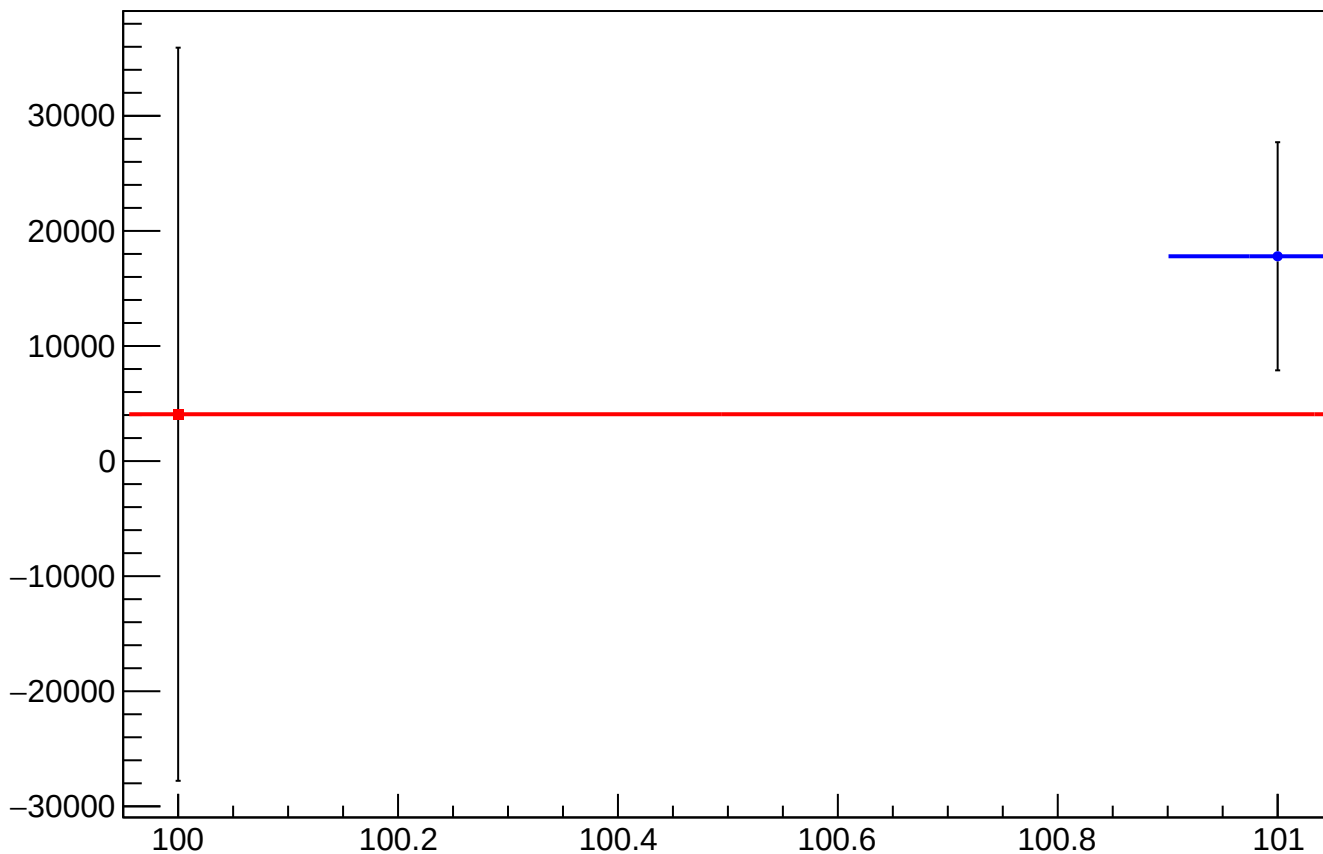
In: 5247.437 $\pm$ 4.630  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5261.767 $\pm$ 4.401  $\chi^2$ /NDF: 99.4/1



# asym\_atr1l2\_avg\_mean vs Slug, Sign Corrected



Right In: 17796.528+/-9912.141  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4070.850+/-31852.643  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

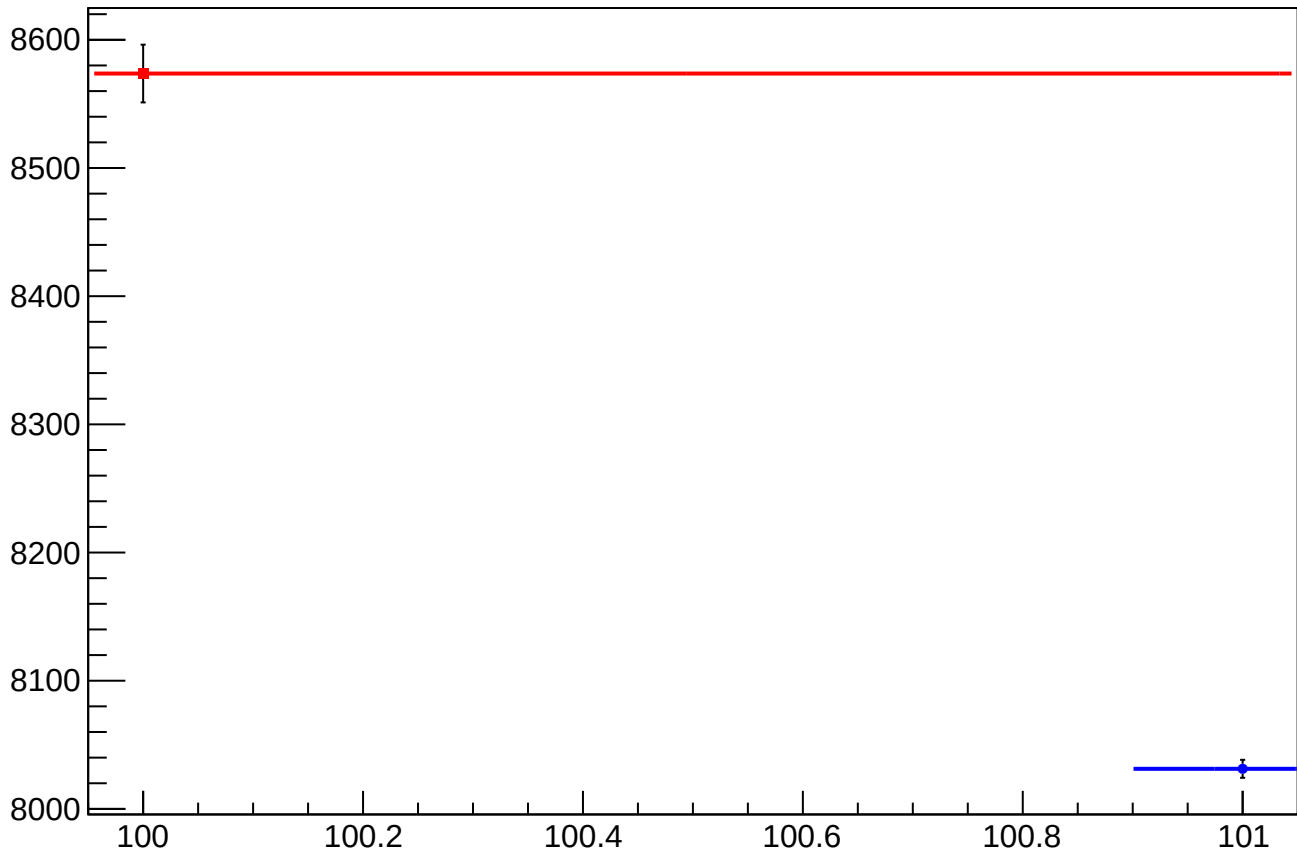
Right: 16584.716+/-9464.471  $\chi^2/\text{NDF}$ : 0.2/1

In: 17796.528+/-9912.141  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16584.716+/-9464.471  $\chi^2/\text{NDF}$ : 0.2/1

# asym\_atr1l2\_avg\_rms vs Slug, Sign Corrected



Right In: 8031.274+/-7.009  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 8573.696+/-22.523  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

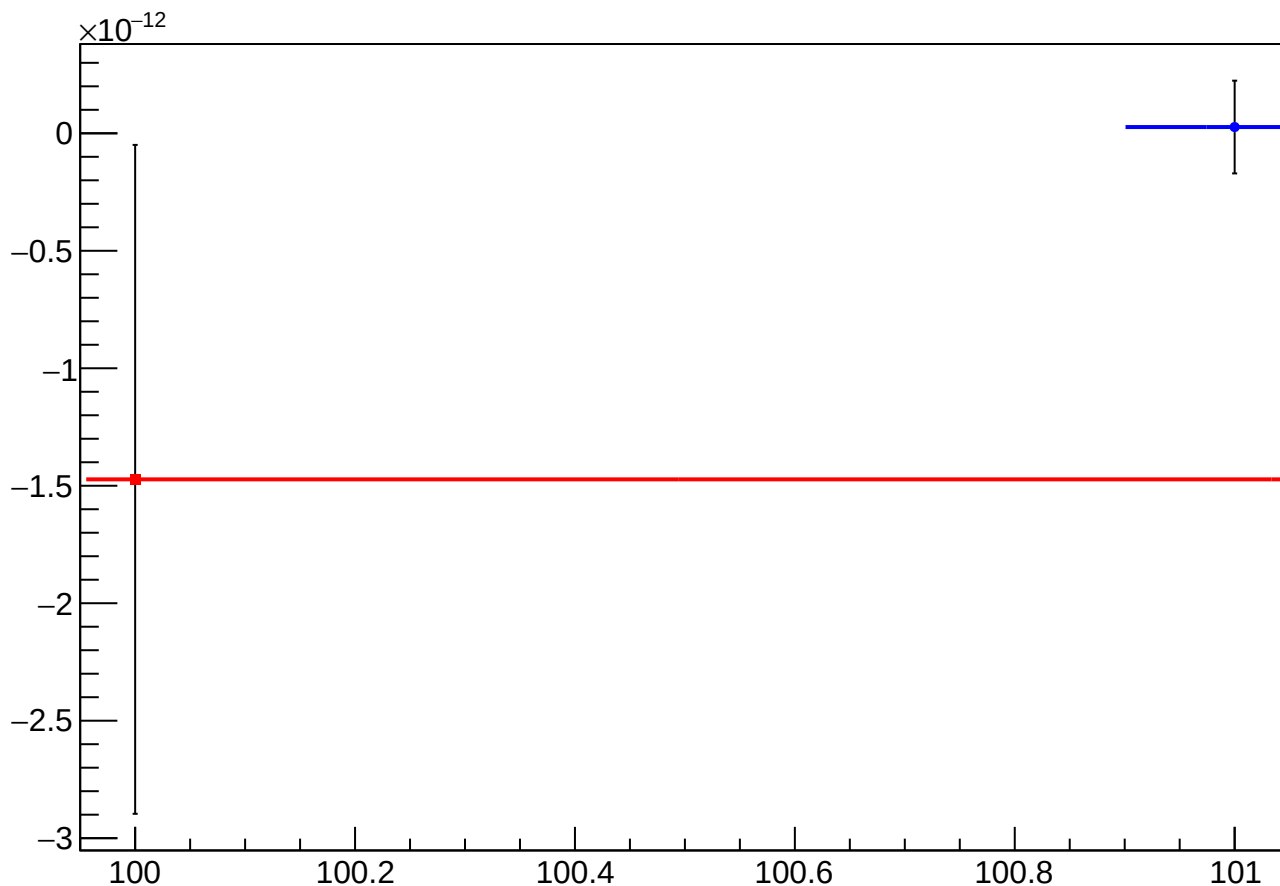
Right: 8079.164+/-6.692  $\chi^2$ /NDF: 528.8/1

In: 8031.274+/-7.009  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 8079.164+/-6.692  $\chi^2$ /NDF: 528.8/1

asym\_atr1l2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

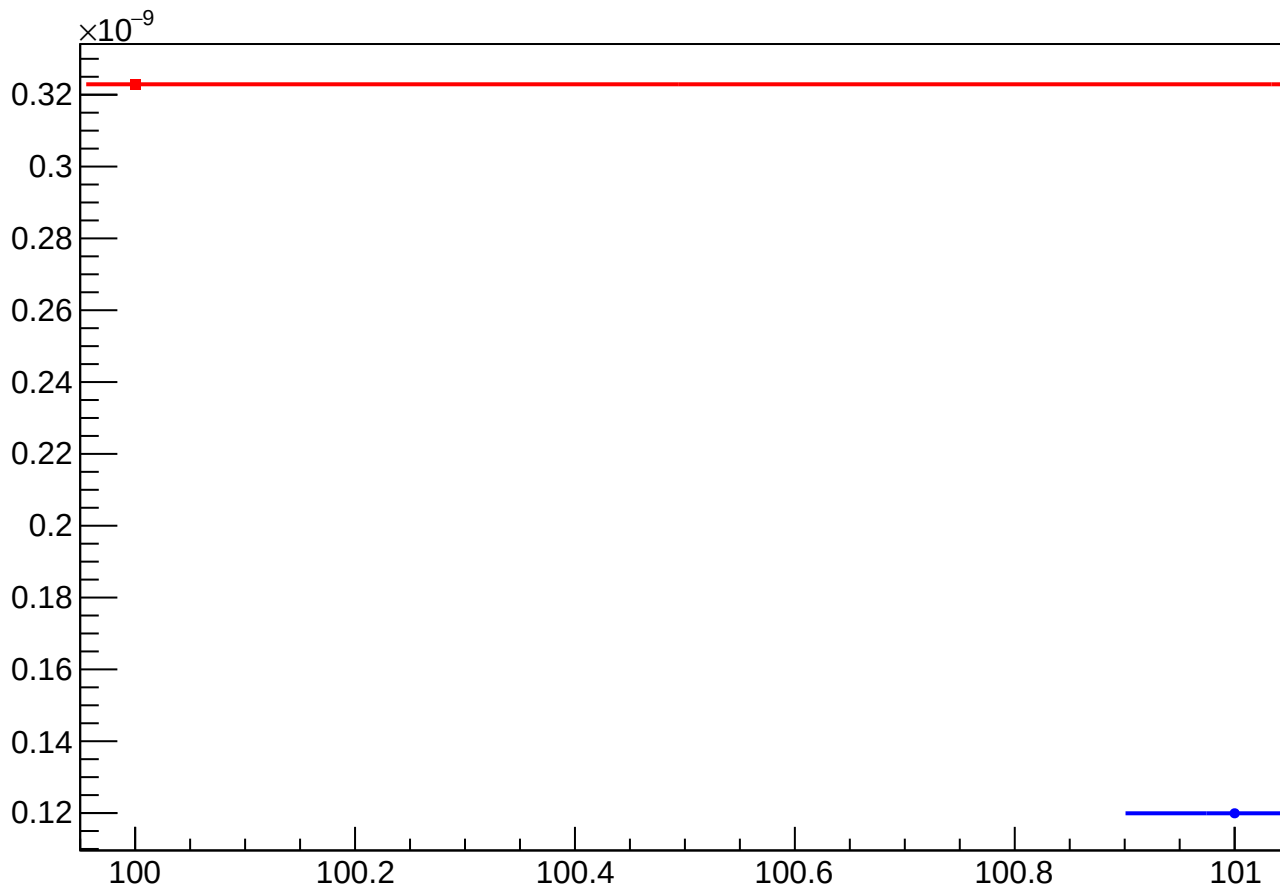
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.1/1

asym\_atr1l2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

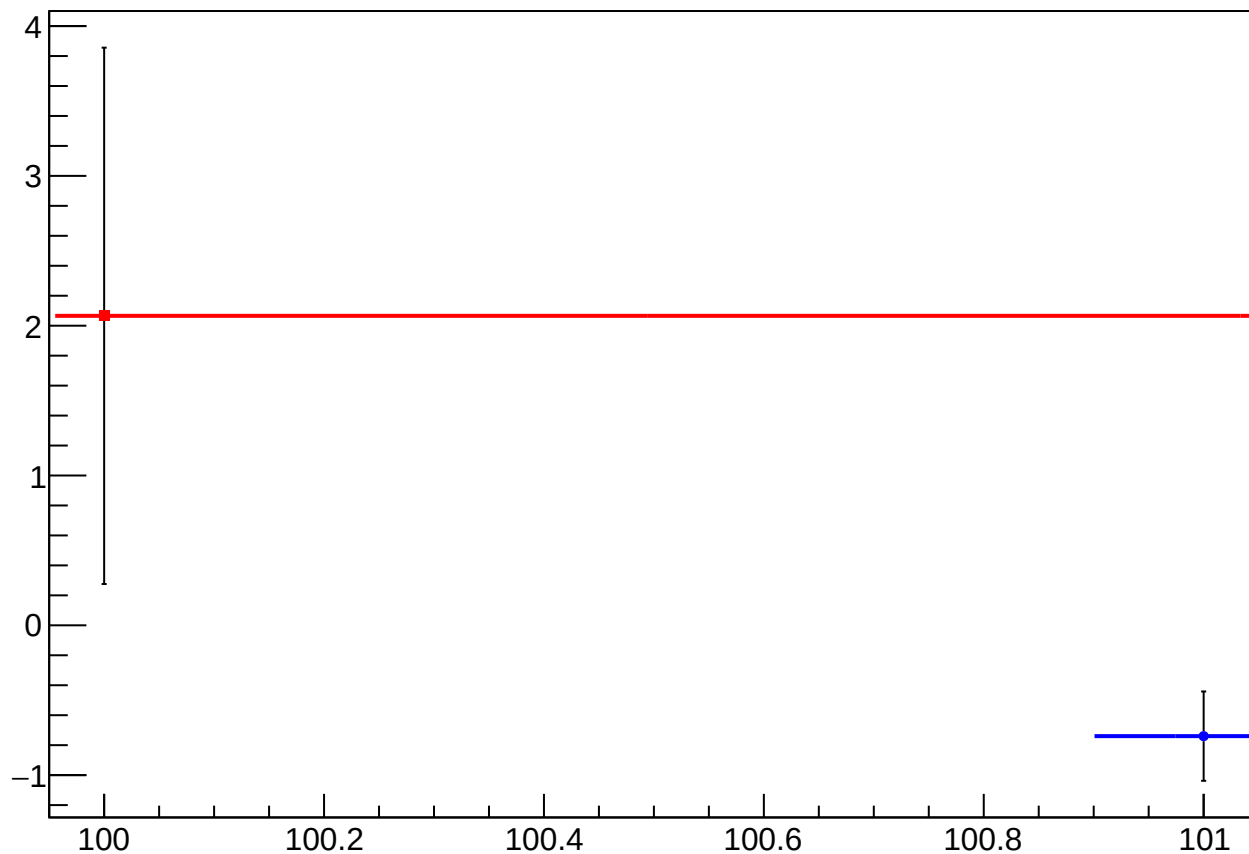
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 39899.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 39899.8/1

asym\_atr1l2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.740 $\pm$ 0.298  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.066 $\pm$ 1.790  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

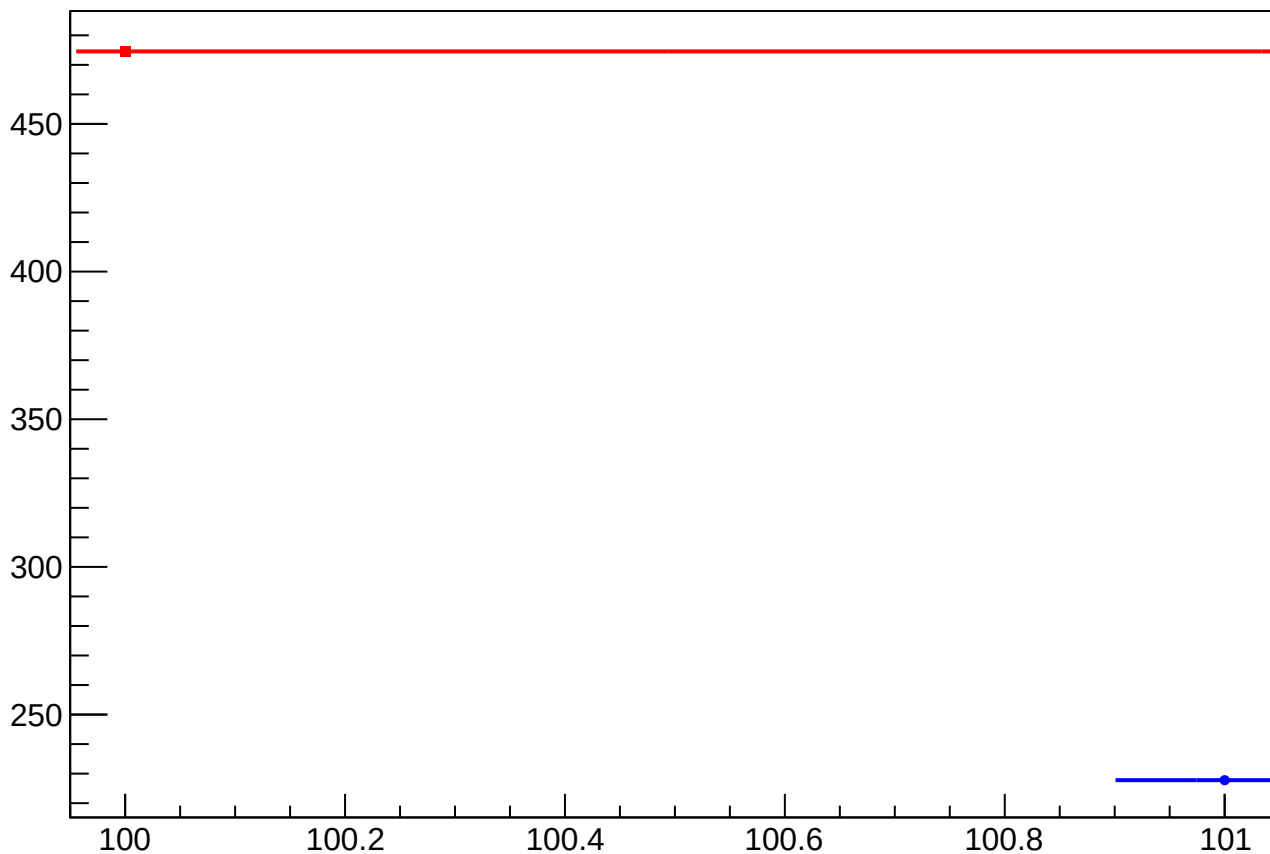
Right: -0.664 $\pm$ 0.294  $\chi^2$ /NDF: 2.4/1

In: -0.740 $\pm$ 0.298  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.664 $\pm$ 0.294  $\chi^2$ /NDF: 2.4/1

asym\_atr1l2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 227.783 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 474.555 $\pm$ 1.266  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

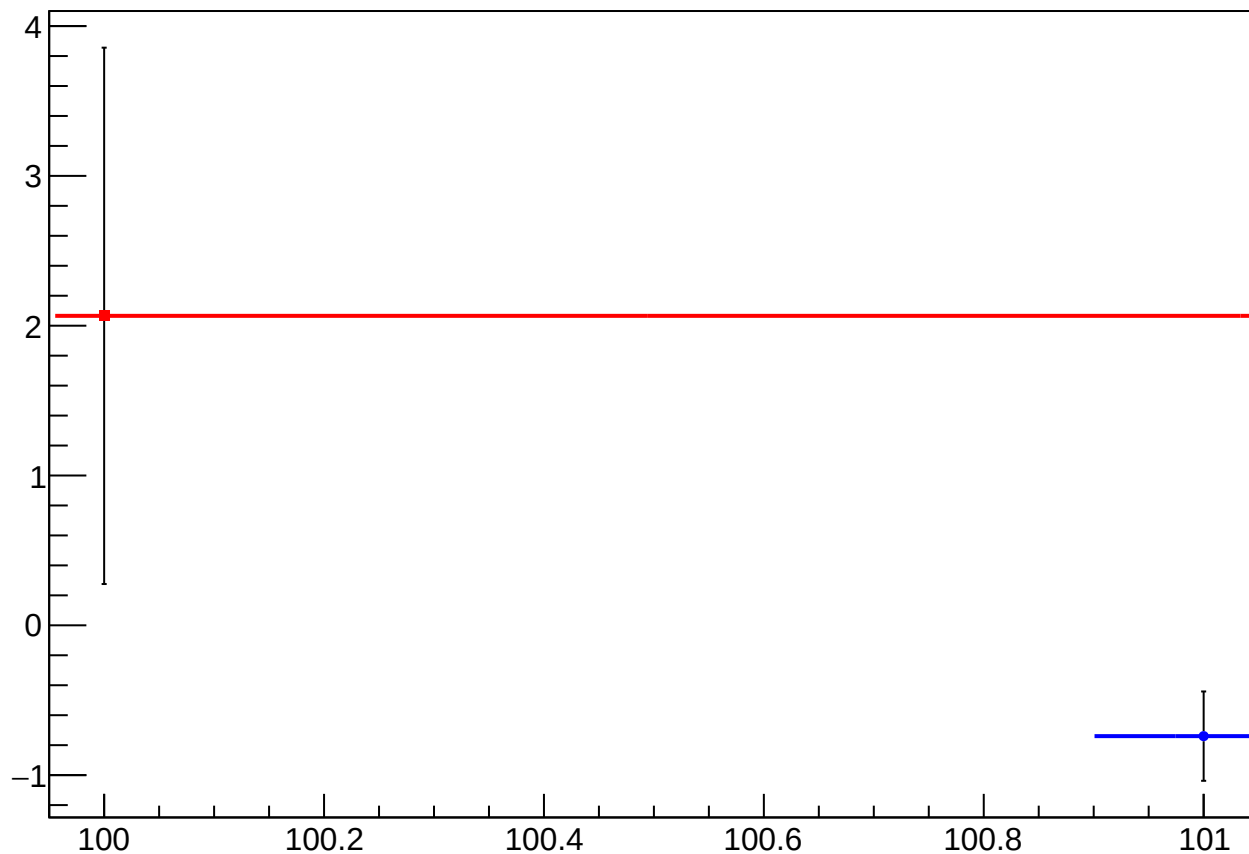
Right: 234.444 $\pm$ 0.208  $\chi^2$ /NDF: 36982.0/1

In: 227.783 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 234.444 $\pm$ 0.208  $\chi^2$ /NDF: 36982.0/1

asym\_atr1l2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.740 $\pm$ 0.298  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.066 $\pm$ 1.790  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

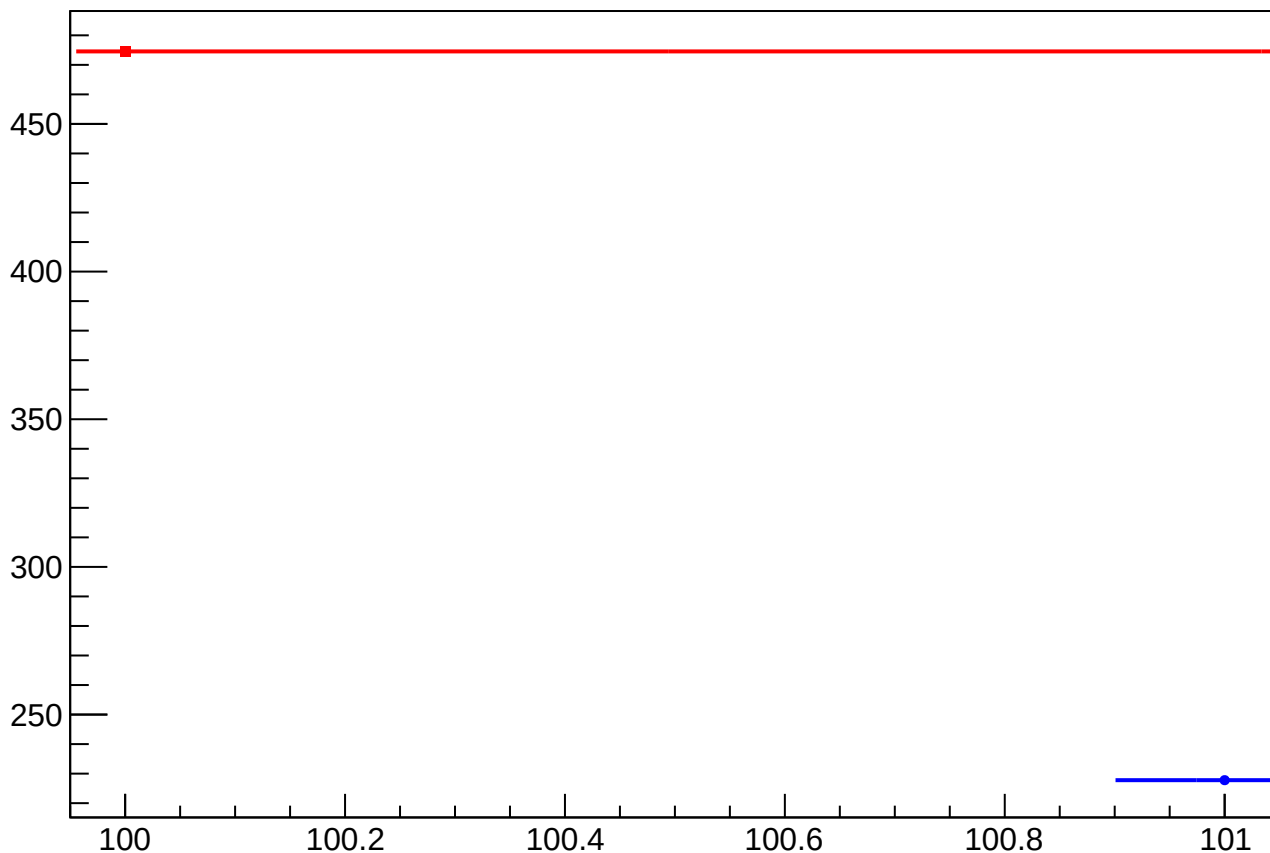
Right: -0.664 $\pm$ 0.294  $\chi^2$ /NDF: 2.4/1

In: -0.740 $\pm$ 0.298  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.664 $\pm$ 0.294  $\chi^2$ /NDF: 2.4/1

asym\_atr1l2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 227.783 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 474.555 $\pm$ 1.266  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 234.444 $\pm$ 0.208  $\chi^2$ /NDF: 36982.0/1

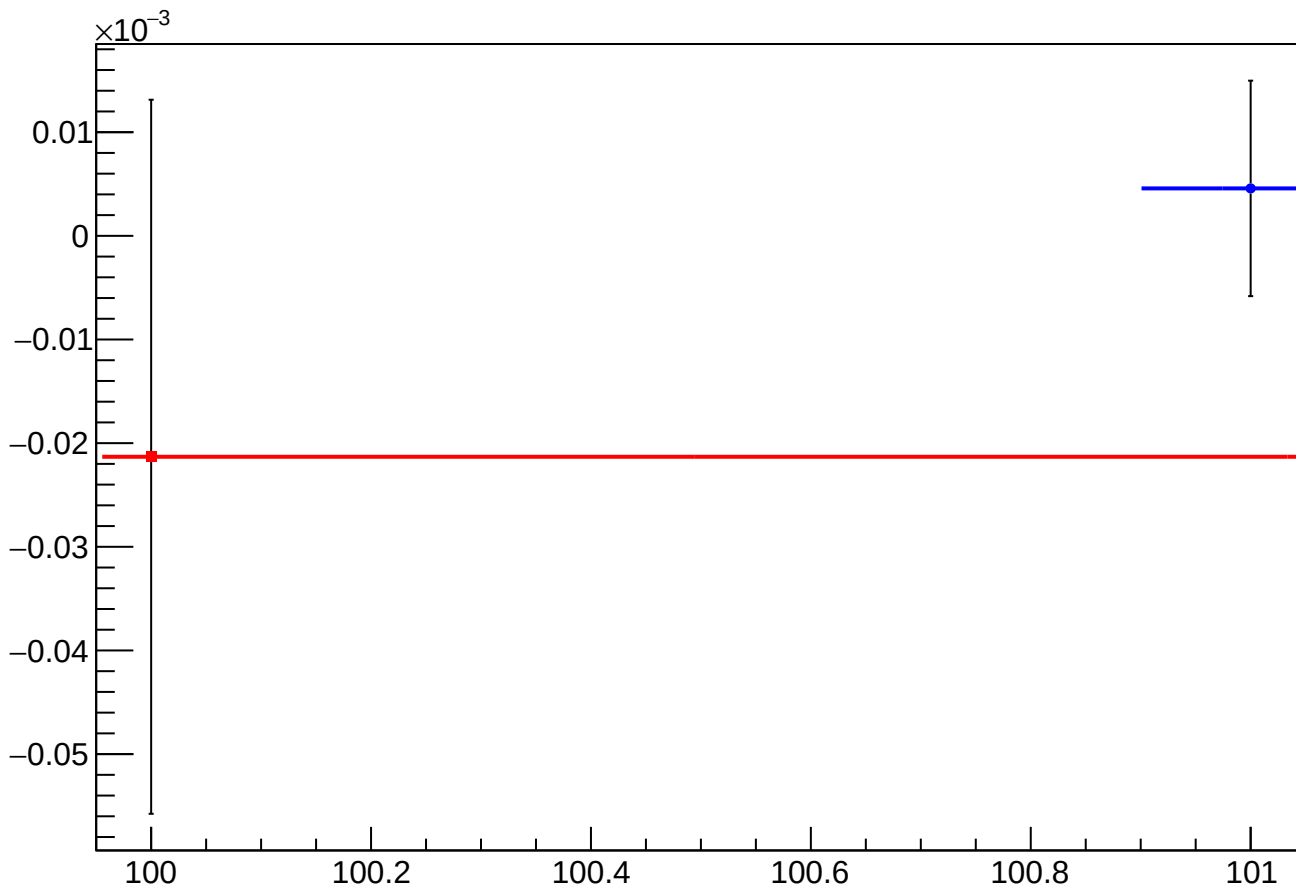
In: 227.783 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 234.444 $\pm$ 0.208  $\chi^2$ /NDF: 36982.0/1



asym\_atr1l2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

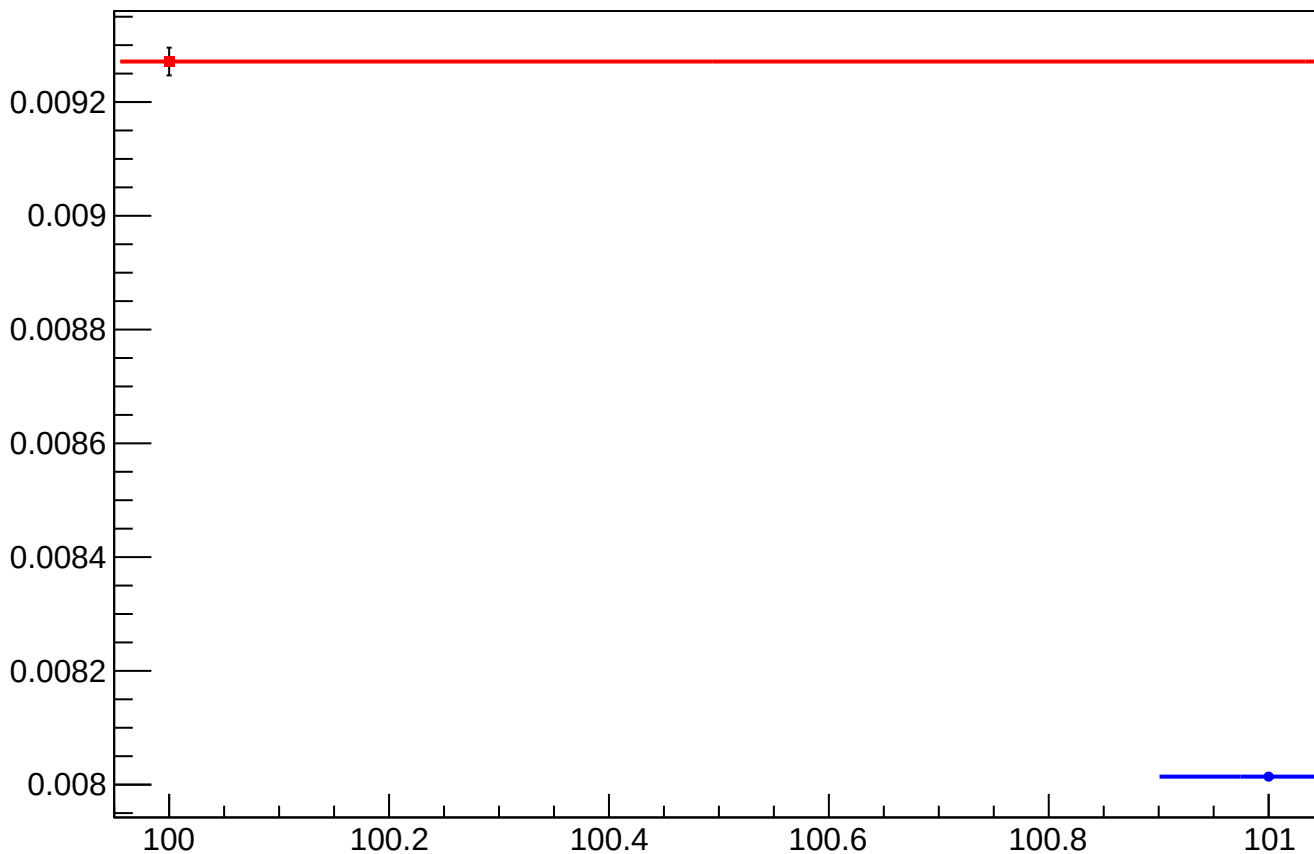
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atr1l2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

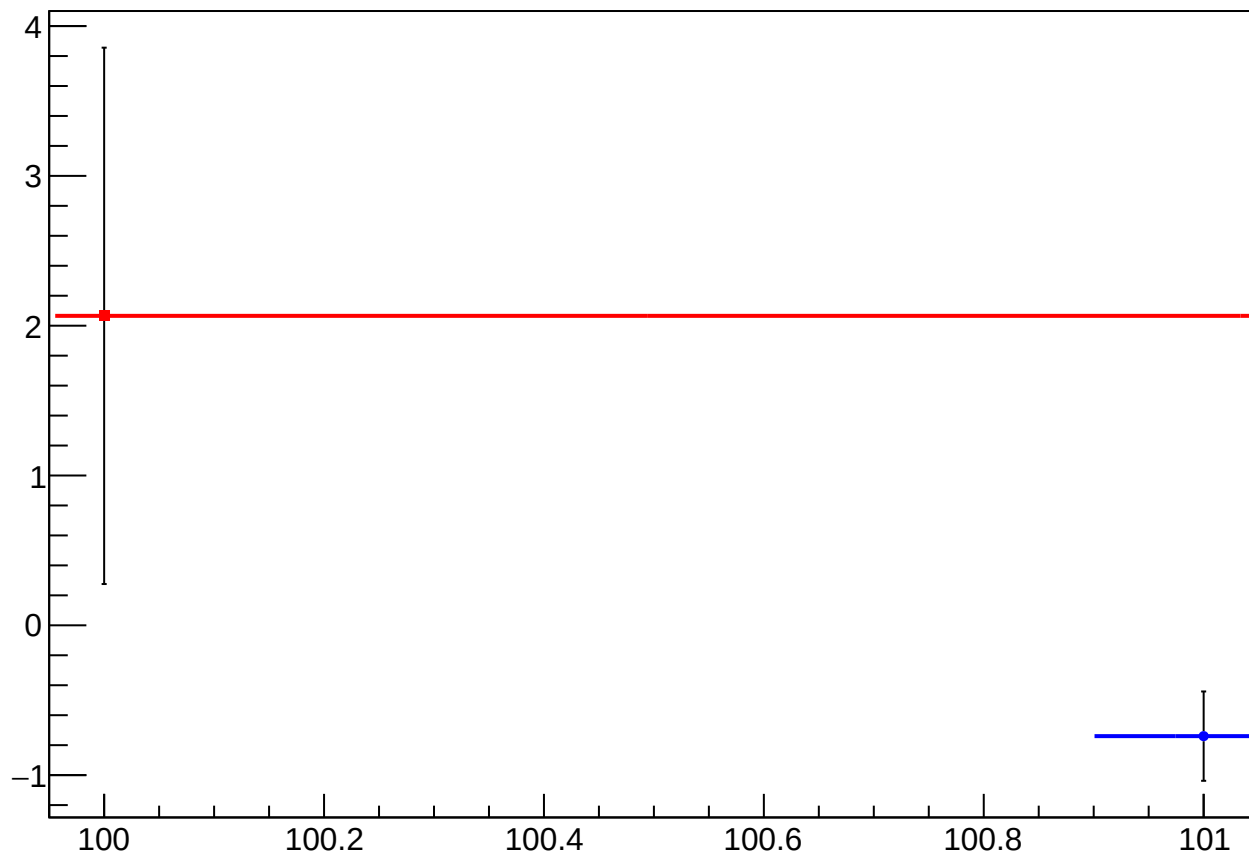
Right: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 2441.5/1

In: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 2441.5/1

asym\_atr1l2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.740 $\pm$ 0.298  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.066 $\pm$ 1.790  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

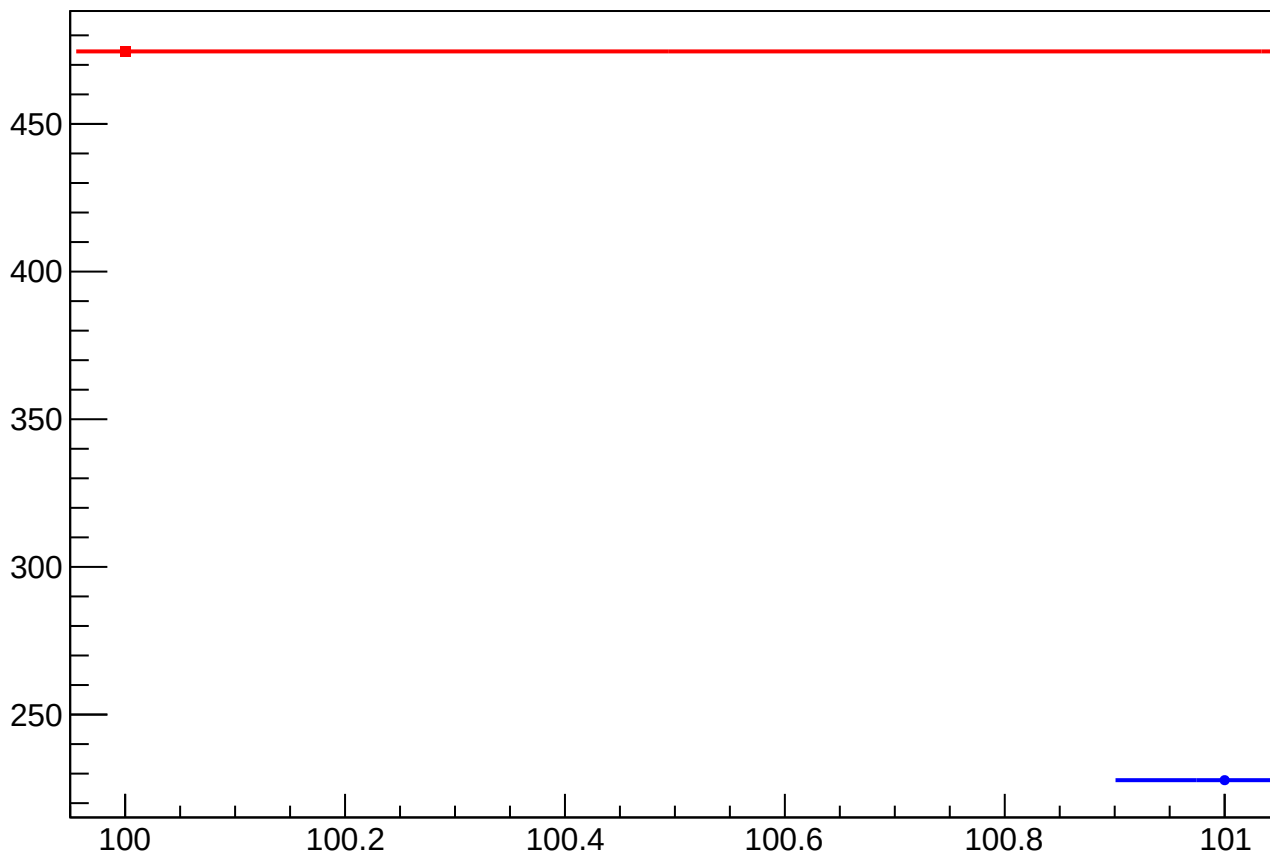
Right: -0.664 $\pm$ 0.294  $\chi^2$ /NDF: 2.4/1

In: -0.740 $\pm$ 0.298  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.664 $\pm$ 0.294  $\chi^2$ /NDF: 2.4/1

asym\_atr1l2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 227.781+/-0.211  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 474.558+/-1.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

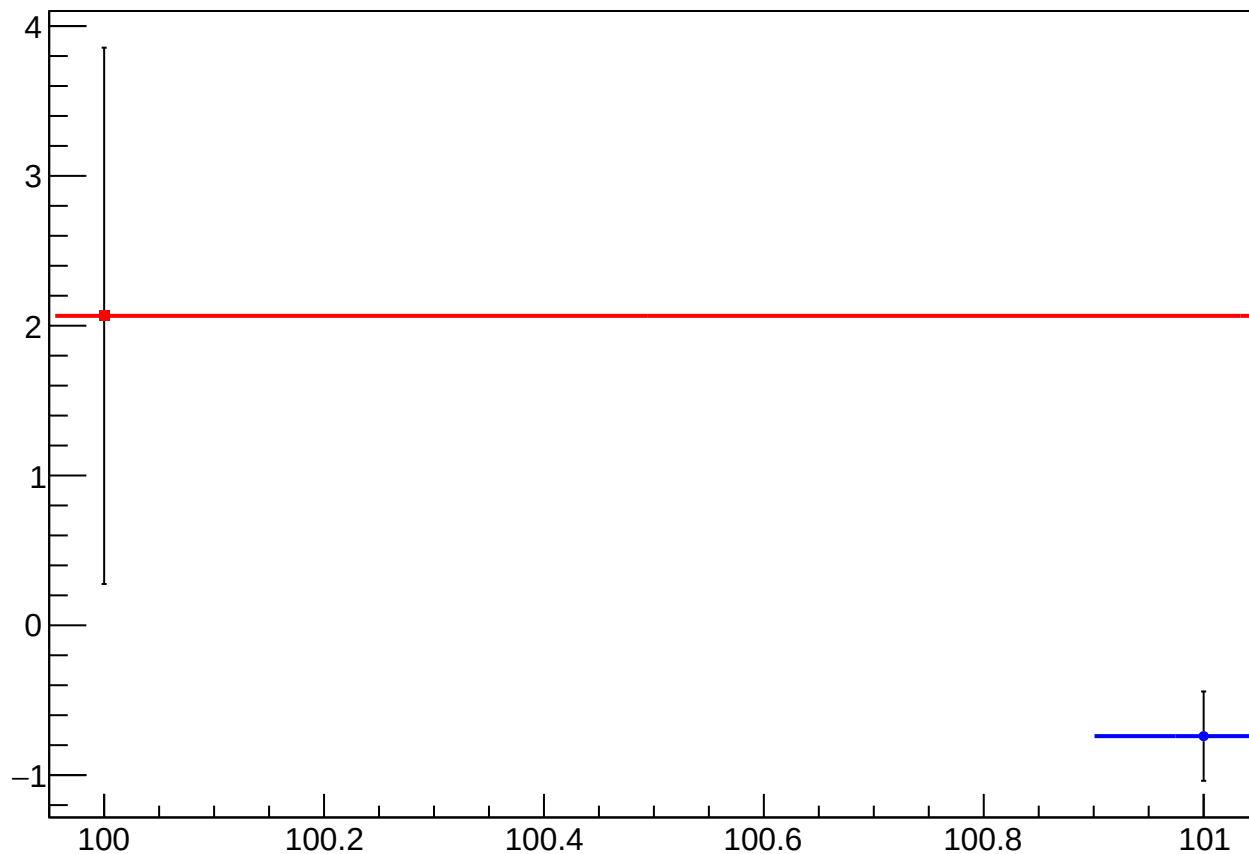
Right: 234.442+/-0.208  $\chi^2/\text{NDF}$ : 36983.2/1

In: 227.781+/-0.211  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 234.442+/-0.208  $\chi^2/\text{NDF}$ : 36983.2/1

asym\_atr1l2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.740+/-0.298  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.066+/-1.790  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

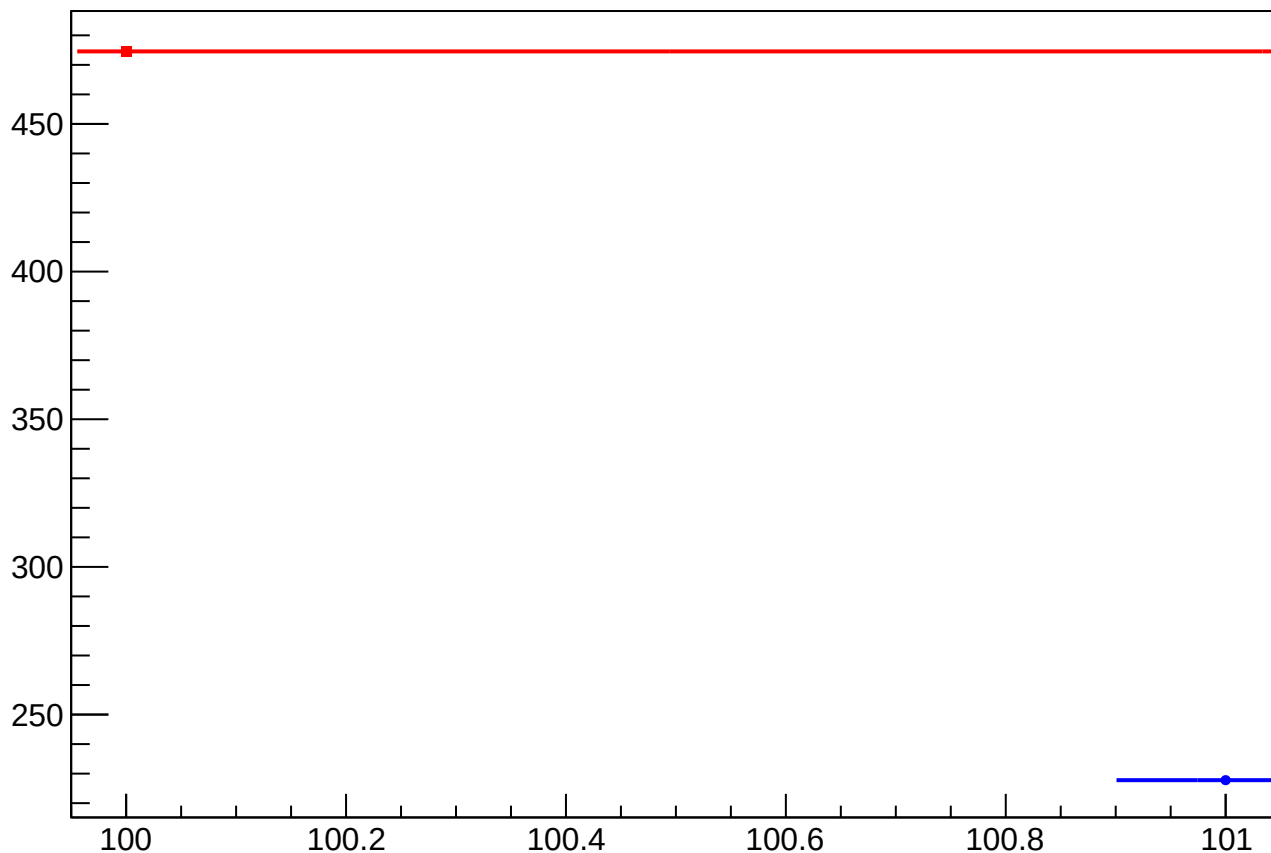
Right: -0.664+/-0.294  $\chi^2/\text{NDF}$ : 2.4/1

In: -0.740+/-0.298  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.664+/-0.294  $\chi^2/\text{NDF}$ : 2.4/1

asym\_atr1l2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 227.781 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 474.558 $\pm$ 1.266  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

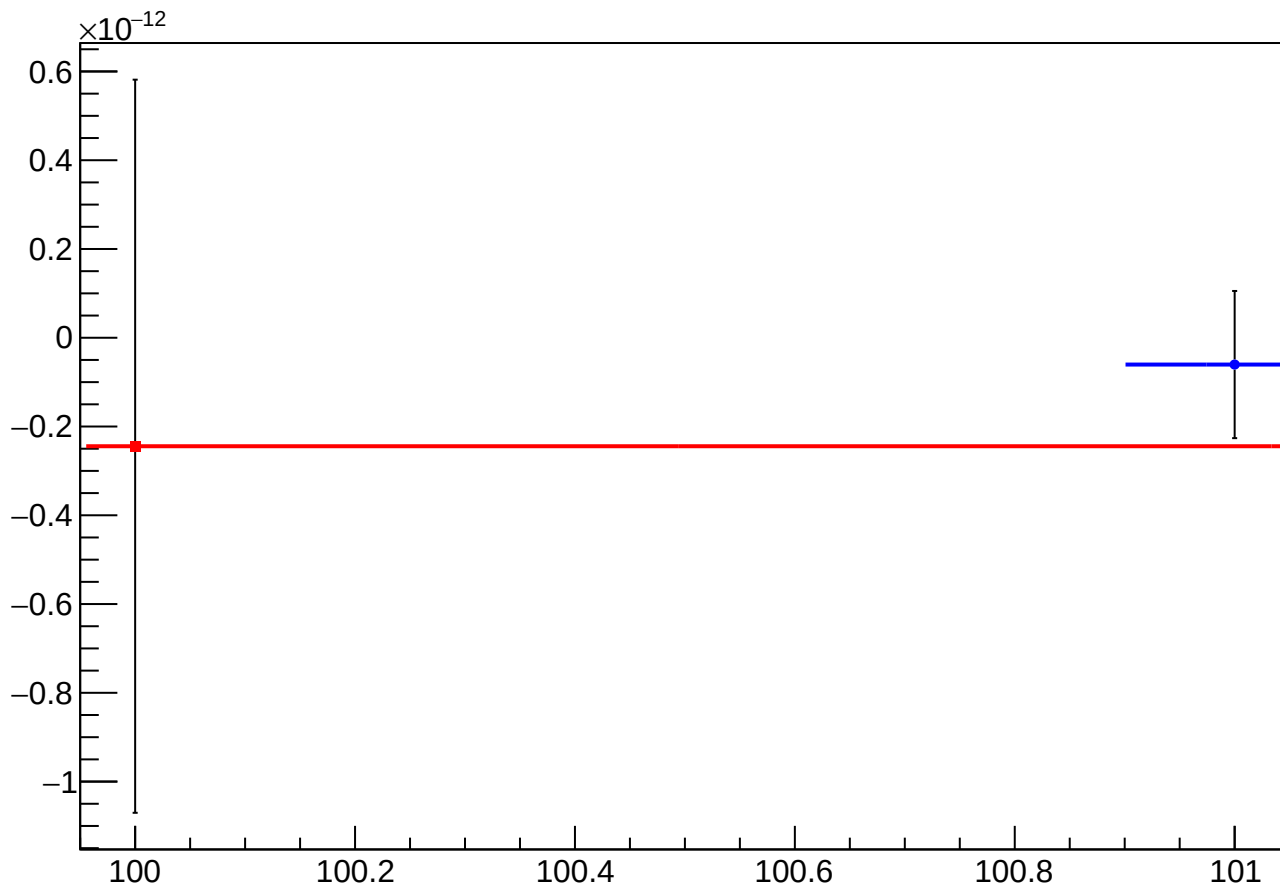
Right: 234.442 $\pm$ 0.208  $\chi^2$ /NDF: 36983.2/1

In: 227.781 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 234.442 $\pm$ 0.208  $\chi^2$ /NDF: 36983.2/1

asym\_atr1l2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

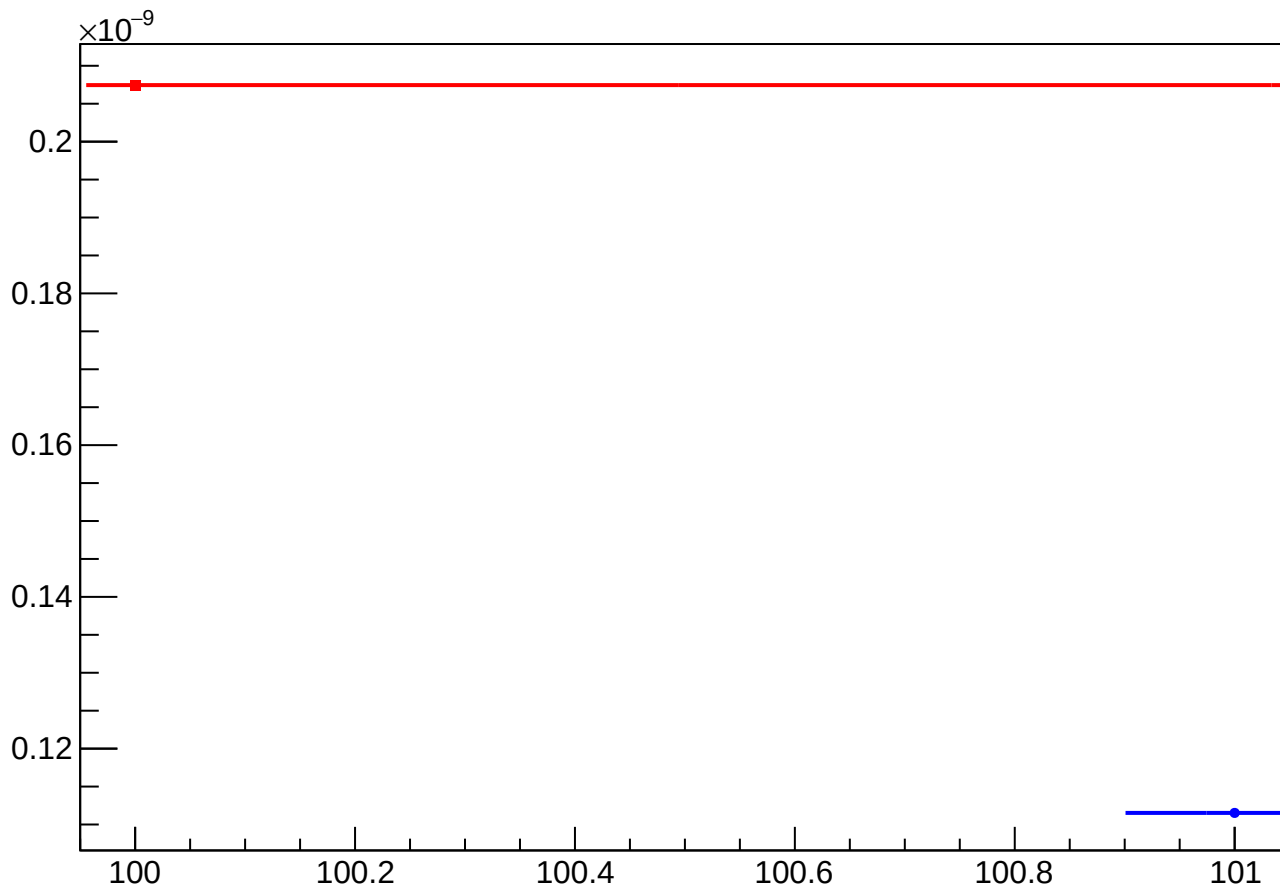
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr1l2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 25933.6/1

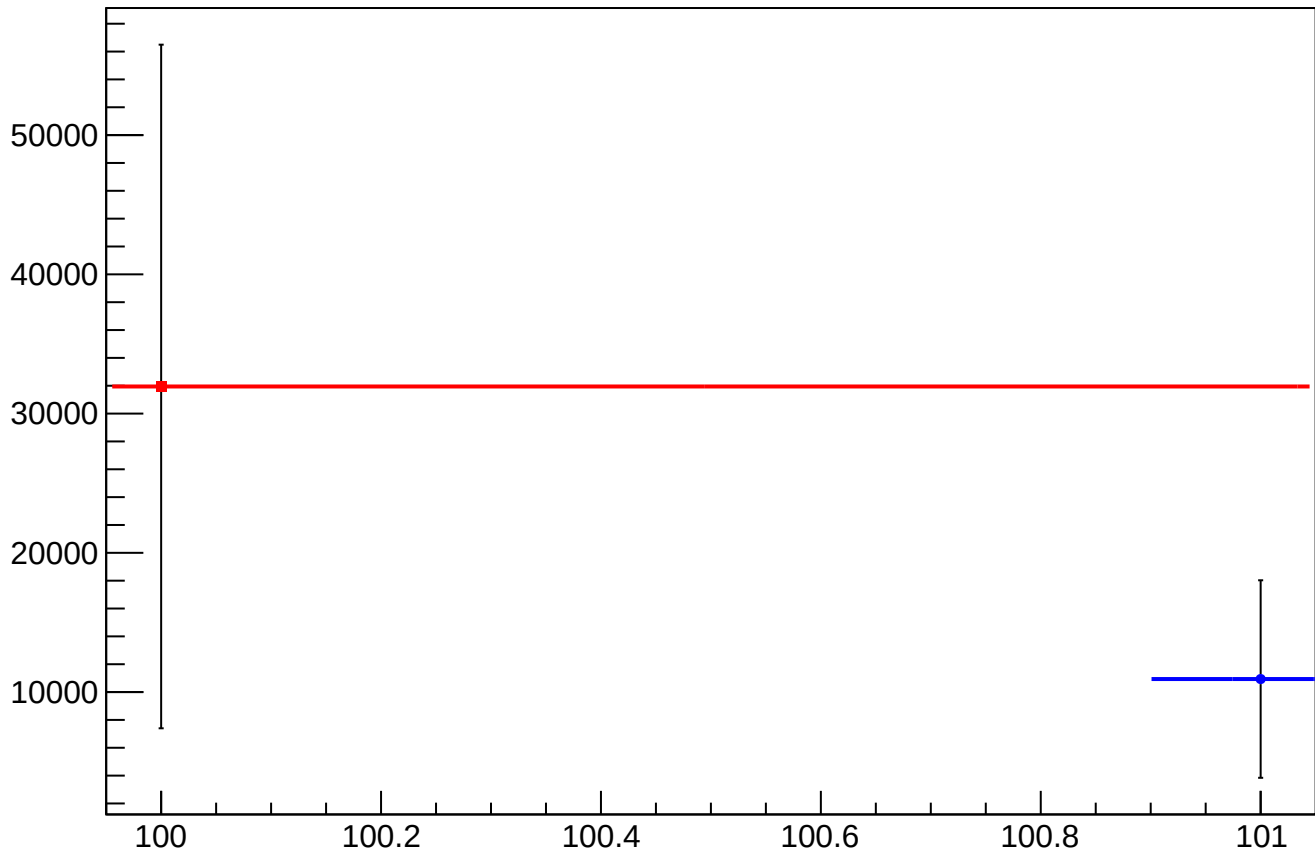
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 25933.6/1



reg\_asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



Right In: 10935.786+/-7092.761  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31946.577+/-24548.365  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

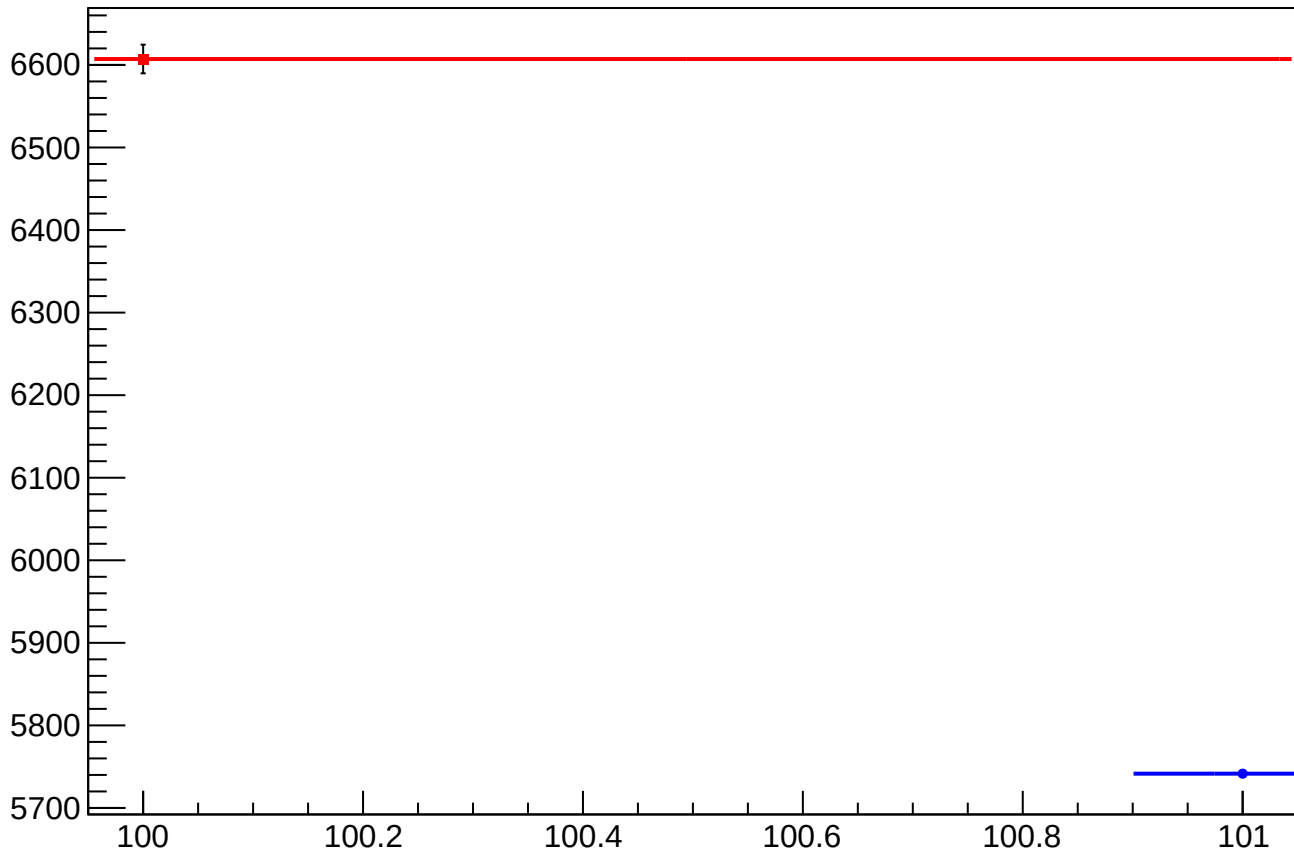
Right: 12554.636+/-6814.041  $\chi^2/\text{NDF}$ : 0.7/1

In: 10935.786+/-7092.761  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12554.636+/-6814.041  $\chi^2/\text{NDF}$ : 0.7/1

# reg\_asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



Right In: 5741.546+/-5.015  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6607.183+/-17.358  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

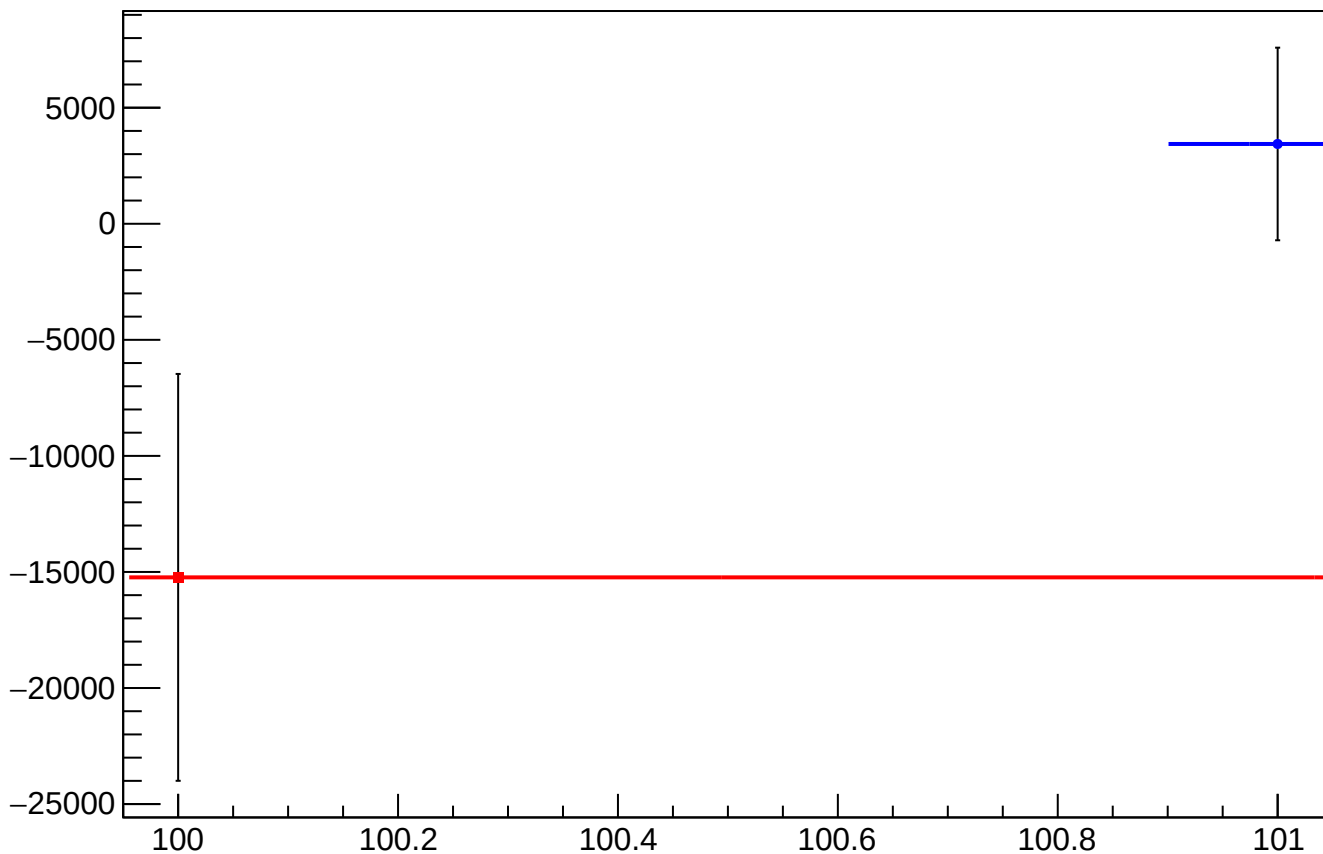
Right: 5808.242+/-4.818  $\chi^2/\text{NDF}$ : 2295.3/1

In: 5741.546+/-5.015  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5808.242+/-4.818  $\chi^2/\text{NDF}$ : 2295.3/1

asym\_atr1l2\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 3437.745+/-4148.922  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15233.418+/-8763.956  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

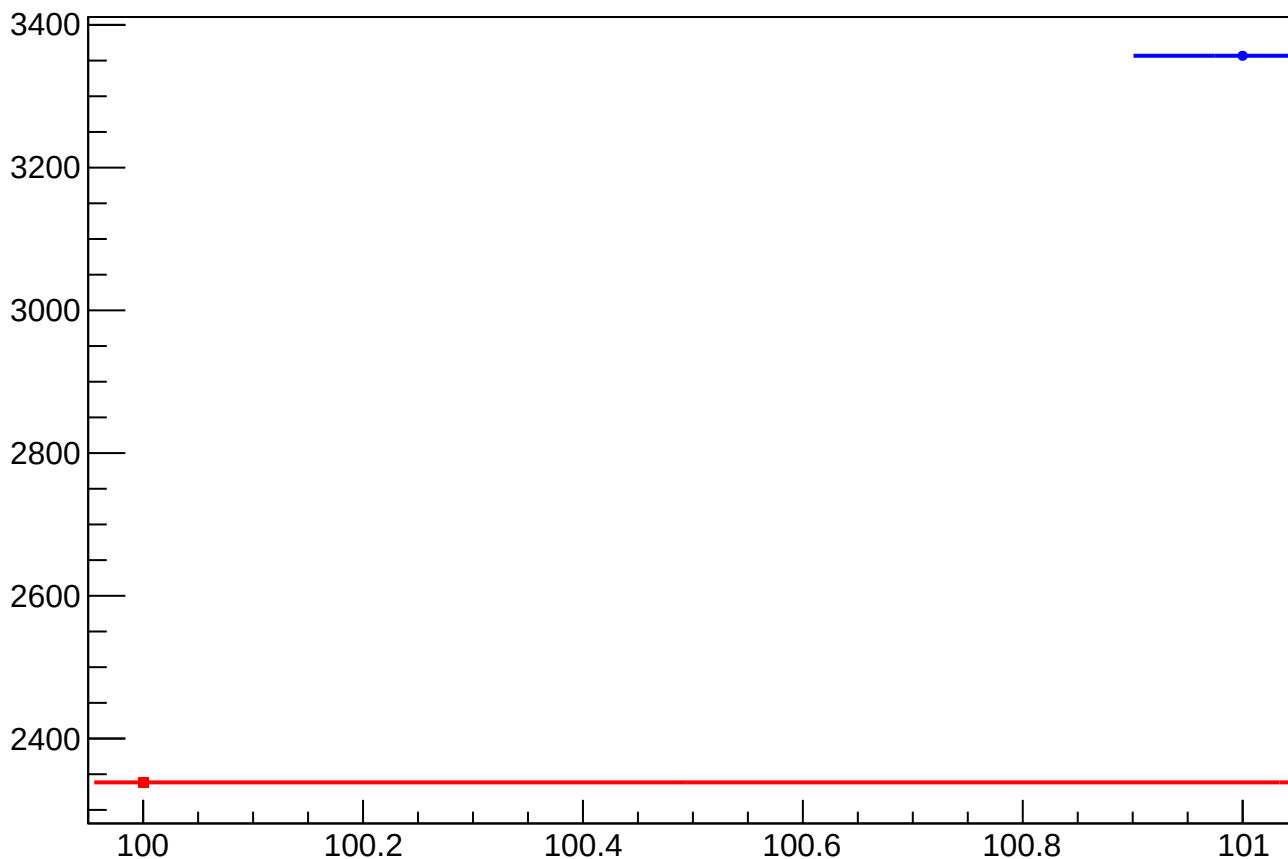
Right: 19.372+/-3749.939  $\chi^2/\text{NDF}$ : 3.7/1

In: 3437.745+/-4148.922  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.372+/-3749.939  $\chi^2/\text{NDF}$ : 3.7/1

asym\_atr1l2\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 3356.752 $\pm$ 2.934  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2338.572 $\pm$ 6.197  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

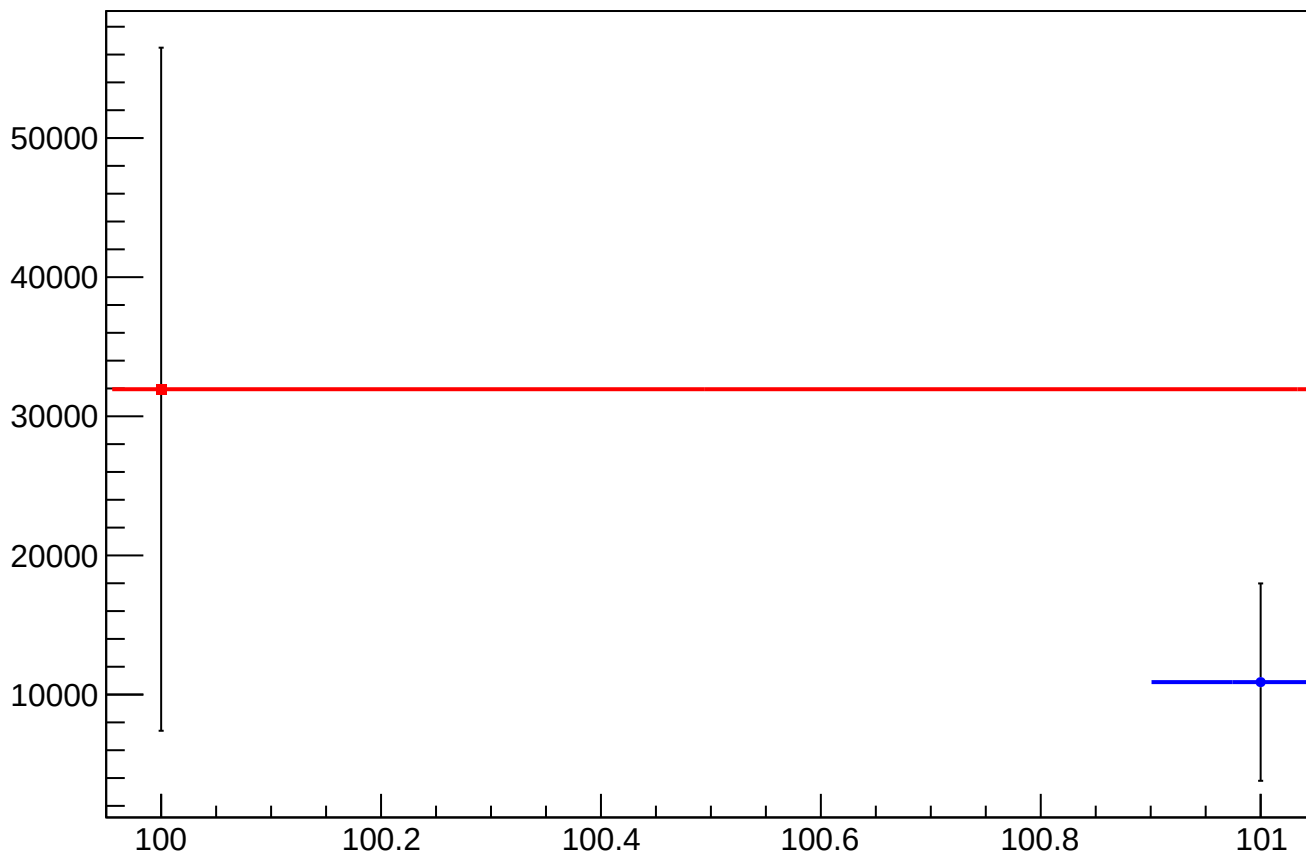
Right: 3170.341 $\pm$ 2.652  $\chi^2$ /NDF: 22052.4/1

In: 3356.752 $\pm$ 2.934  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3170.341 $\pm$ 2.652  $\chi^2$ /NDF: 22052.4/1

cor\_asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



Right In: 10894.950+/-7092.797  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31946.482+/-24548.365  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

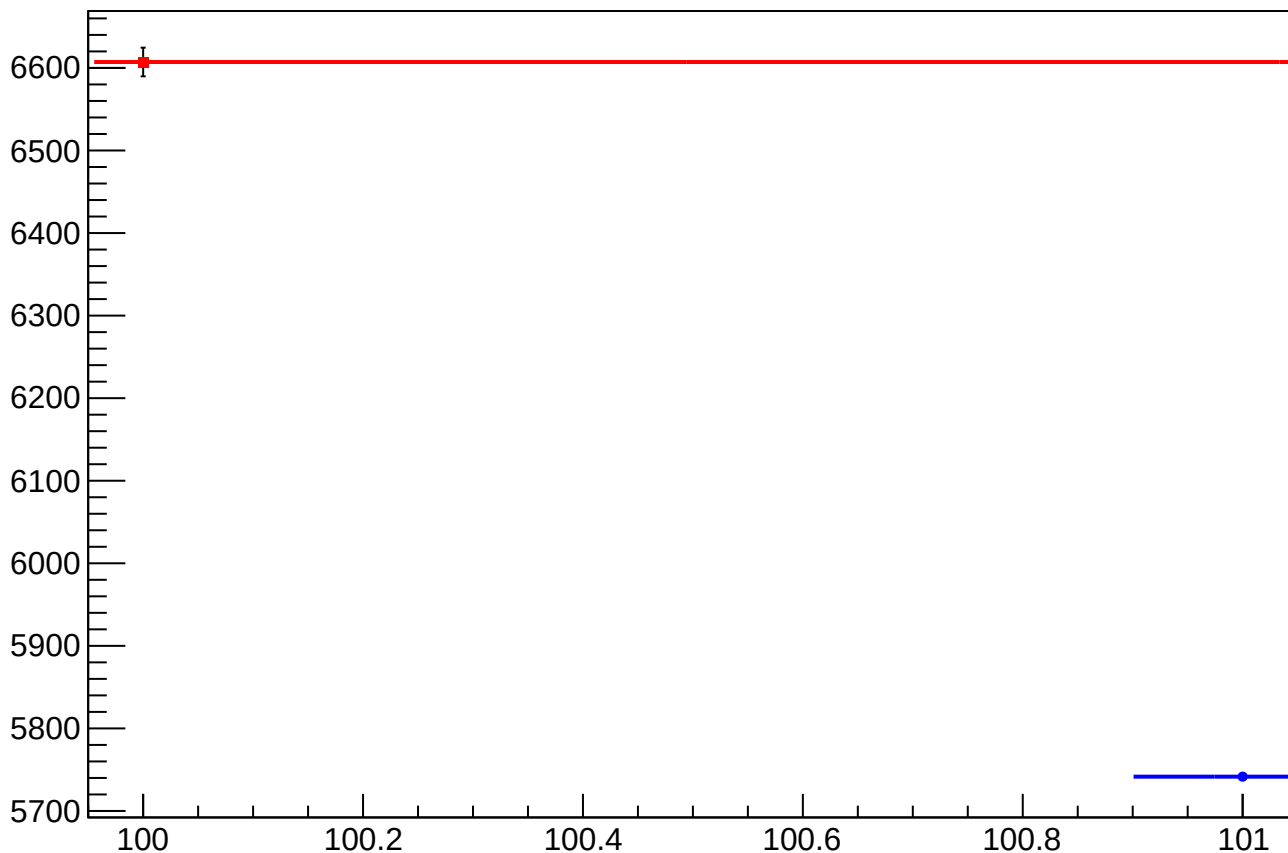
Right: 12516.955+/-6814.073  $\chi^2/\text{NDF}$ : 0.7/1

In: 10894.950+/-7092.797  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12516.955+/-6814.073  $\chi^2/\text{NDF}$ : 0.7/1

# cor\_asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



Right In: 5741.566+/-5.015  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6607.183+/-17.358  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

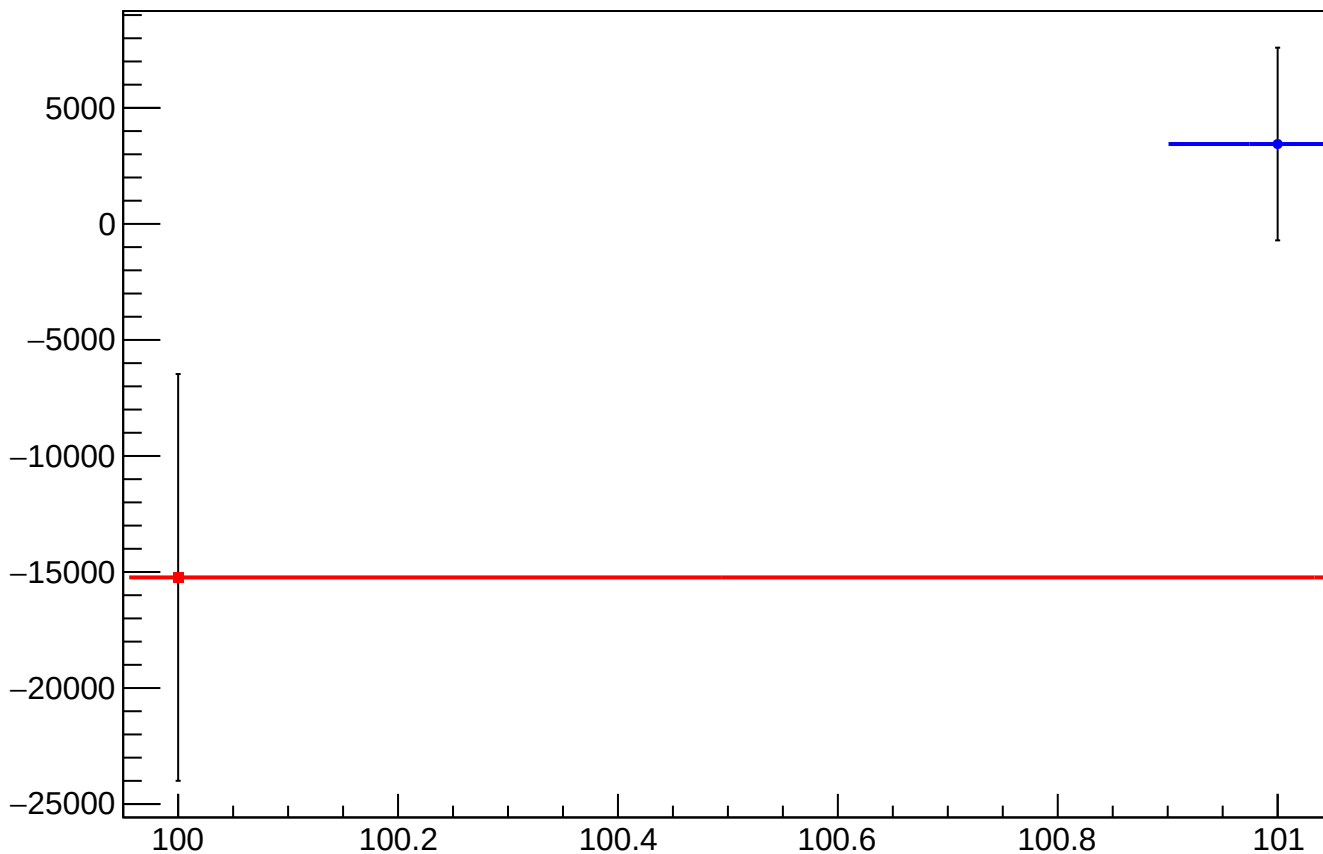
Right: 5808.261+/-4.818  $\chi^2/\text{NDF}$ : 2295.2/1

In: 5741.566+/-5.015  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5808.261+/-4.818  $\chi^2/\text{NDF}$ : 2295.2/1

asym\_atr1l2\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 3442.940+/-4151.747  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15233.482+/-8763.976  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

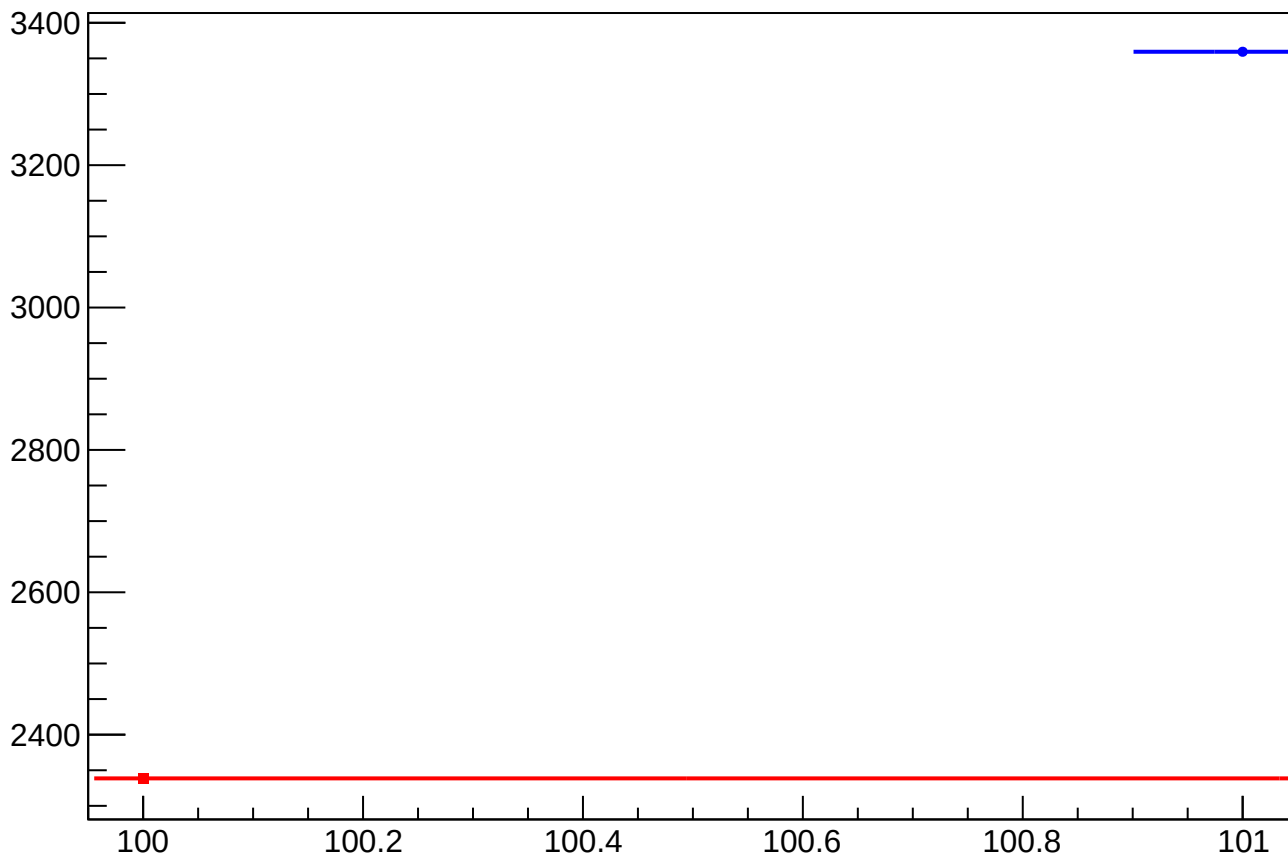
Right: 19.814+/-3752.026  $\chi^2/\text{NDF}$ : 3.7/1

In: 3442.940+/-4151.747  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.814+/-3752.026  $\chi^2/\text{NDF}$ : 3.7/1

asym\_atr1l2\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 3359.312 $\pm$ 2.936  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2338.579 $\pm$ 6.197  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 3172.226 $\pm$ 2.653  $\chi^2$ /NDF: 22157.6/1

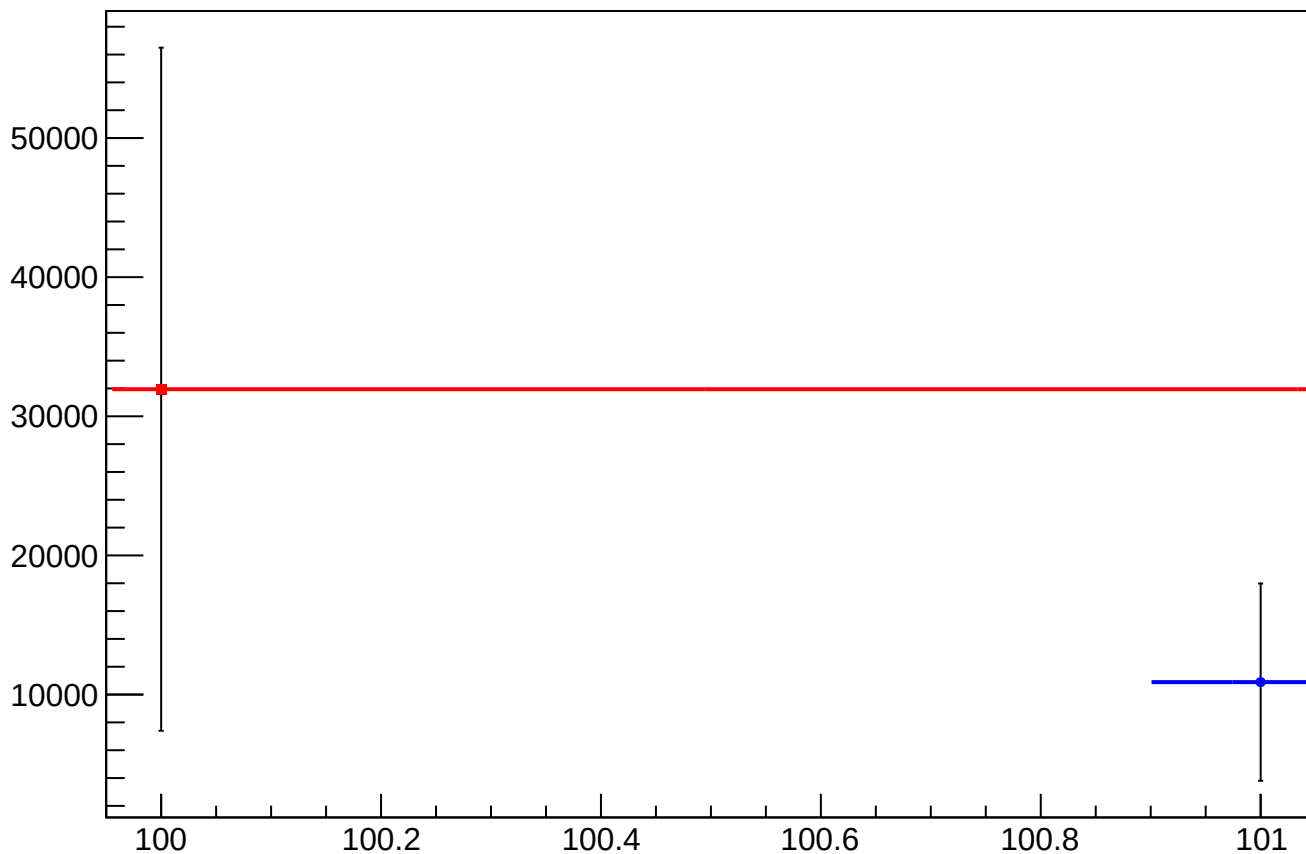
In: 3359.312 $\pm$ 2.936  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3172.226 $\pm$ 2.653  $\chi^2$ /NDF: 22157.6/1



eigen\_cor\_asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



Right In: 10894.950+/-7092.797  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31946.482+/-24548.365  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

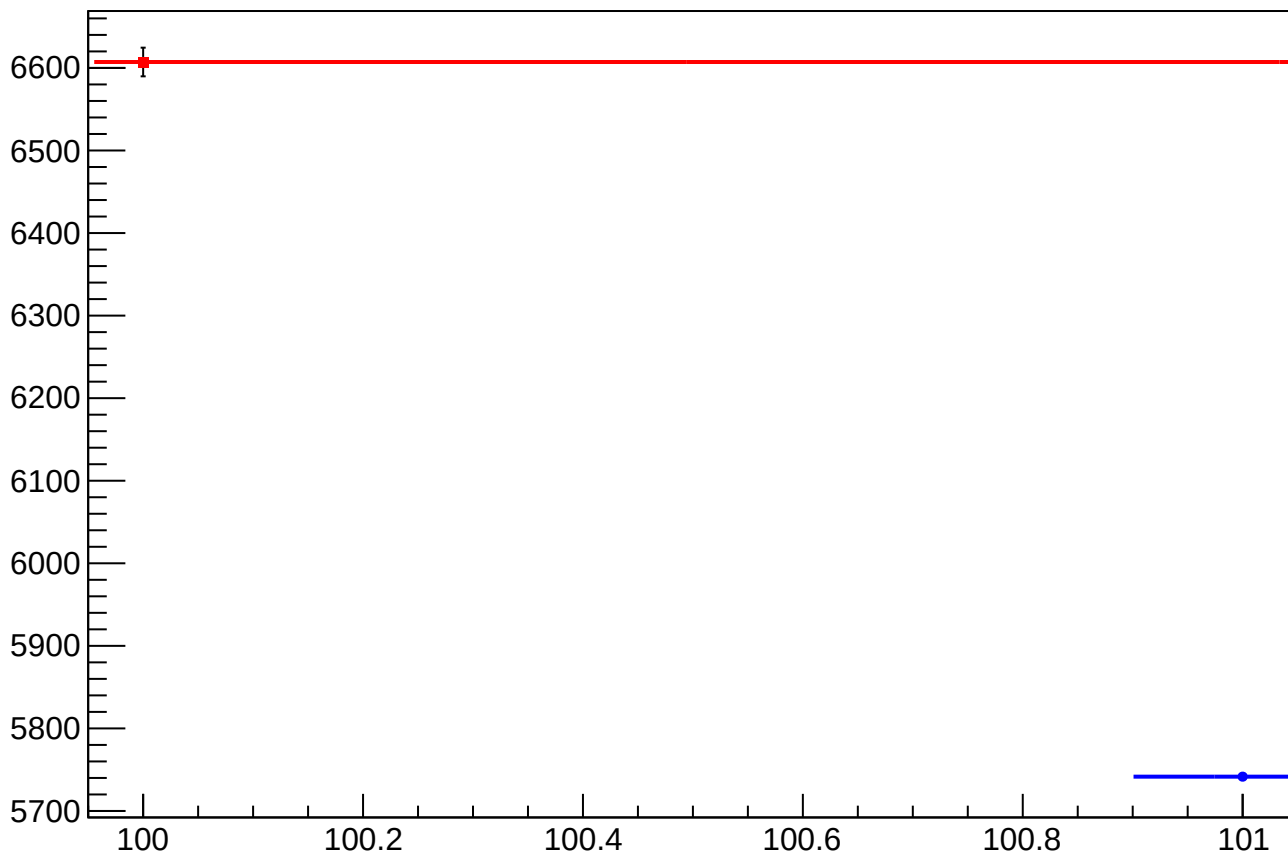
Right: 12516.955+/-6814.073  $\chi^2/\text{NDF}$ : 0.7/1

In: 10894.950+/-7092.797  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12516.955+/-6814.073  $\chi^2/\text{NDF}$ : 0.7/1

eigen\_cor\_asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



Right In: 5741.566+/-5.015  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6607.183+/-17.358  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

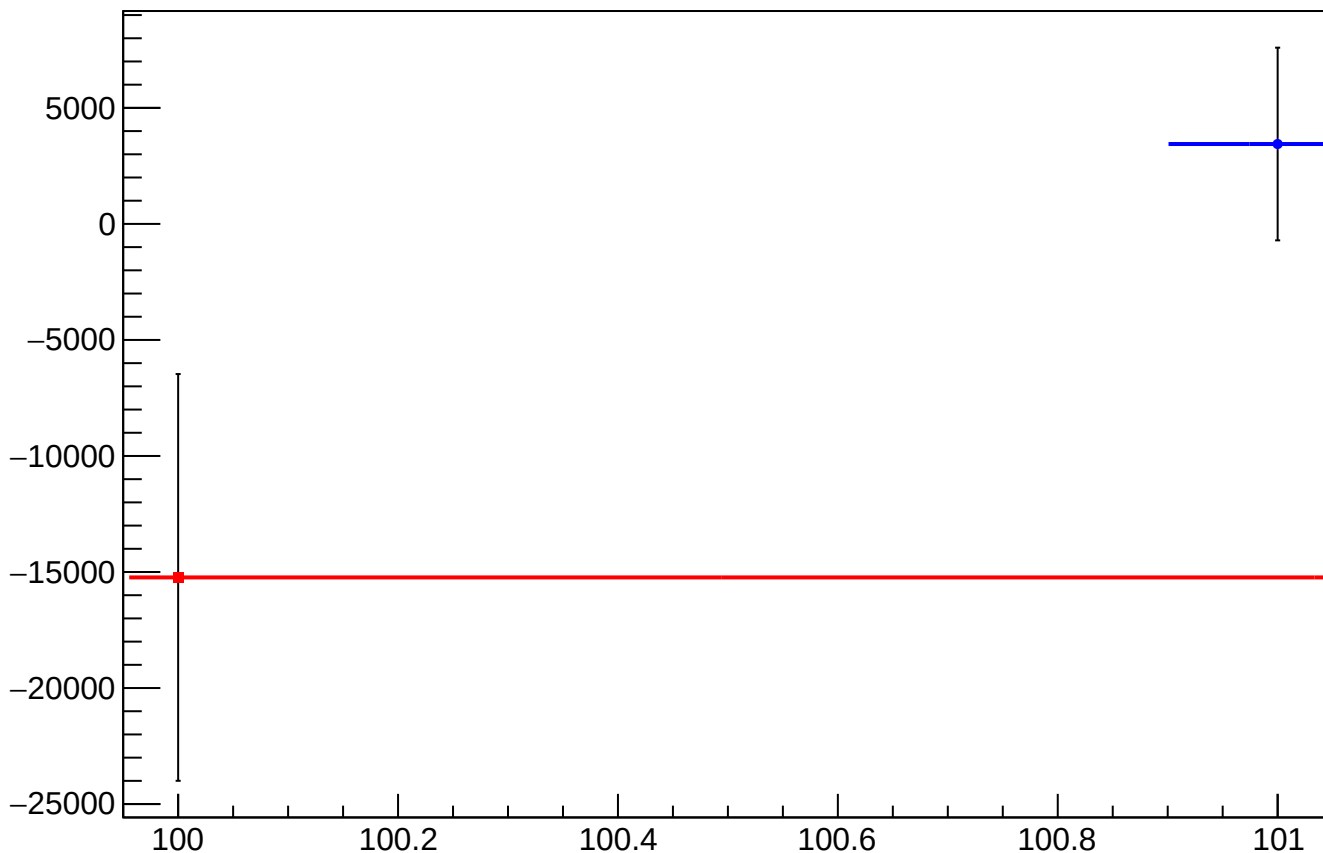
Right: 5808.261+/-4.818  $\chi^2/\text{NDF}$ : 2295.2/1

In: 5741.566+/-5.015  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5808.261+/-4.818  $\chi^2/\text{NDF}$ : 2295.2/1

asym\_atr1l2\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 3442.940+/-4151.747  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15233.482+/-8763.976  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

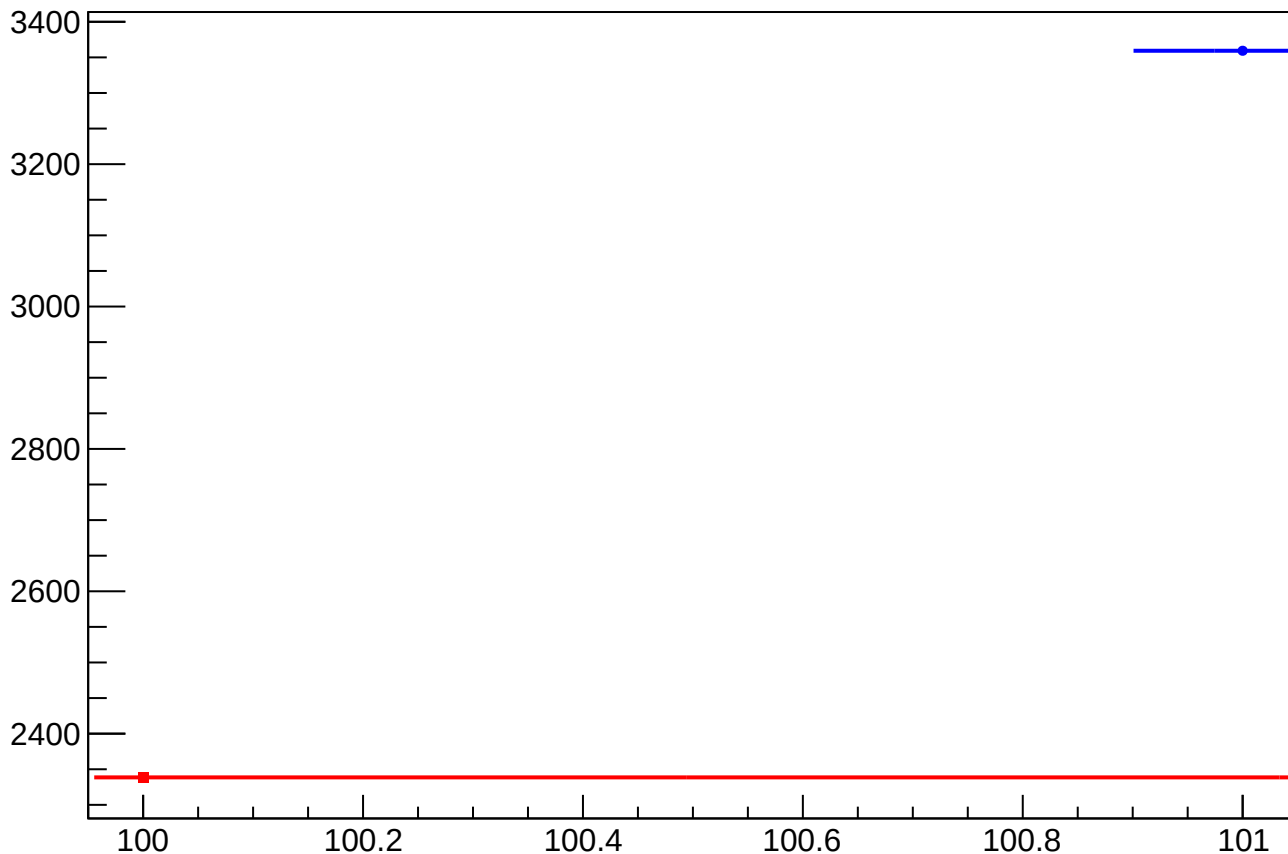
Right: 19.814+/-3752.026  $\chi^2/\text{NDF}$ : 3.7/1

In: 3442.940+/-4151.747  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 19.814+/-3752.026  $\chi^2/\text{NDF}$ : 3.7/1

asym\_atr1l2\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 3359.312 $\pm$ 2.936  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2338.579 $\pm$ 6.197  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

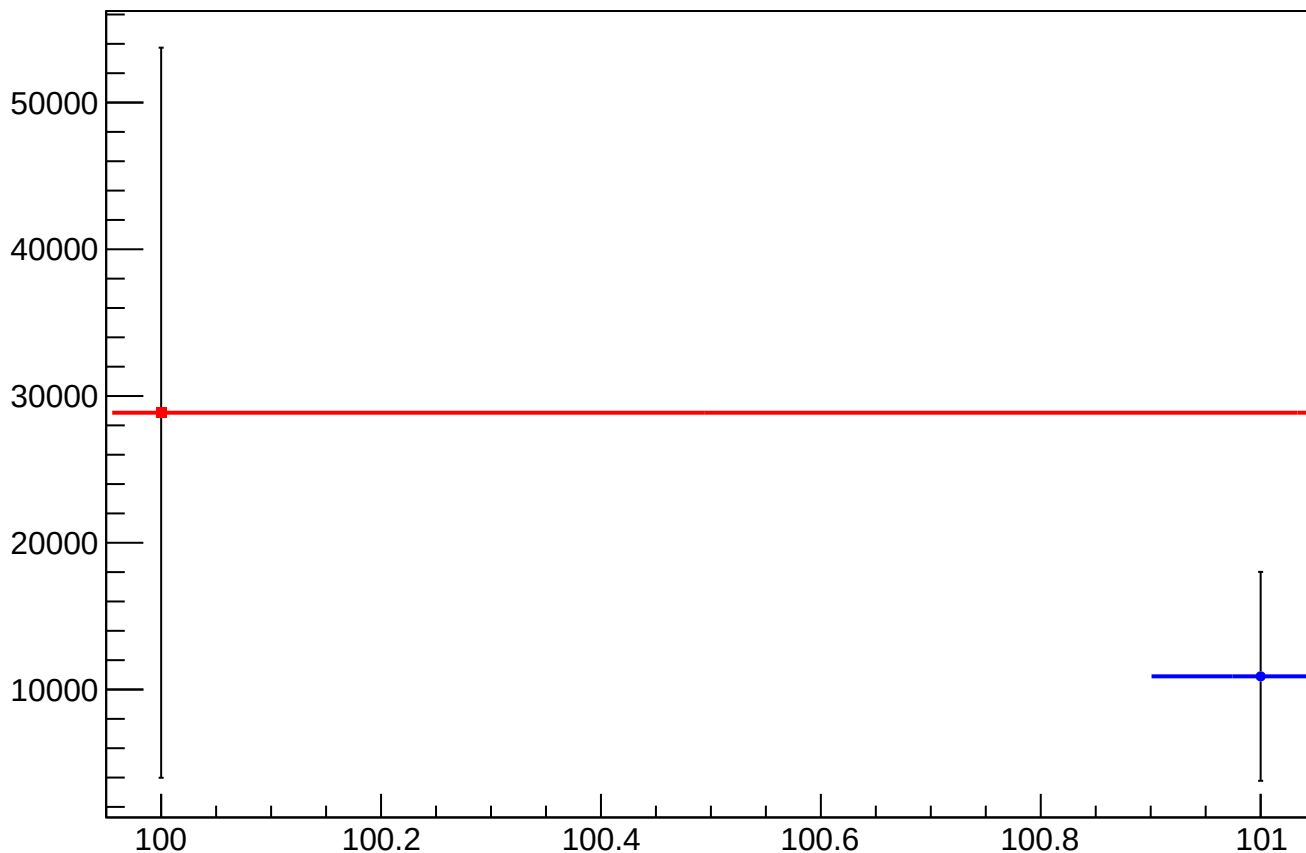
Right: 3172.226 $\pm$ 2.653  $\chi^2$ /NDF: 22157.6/1

In: 3359.312 $\pm$ 2.936  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3172.226 $\pm$ 2.653  $\chi^2$ /NDF: 22157.6/1

dit\_asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



Right In: 10897.617 $\pm$ 7118.416  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28862.839 $\pm$ 24876.387  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

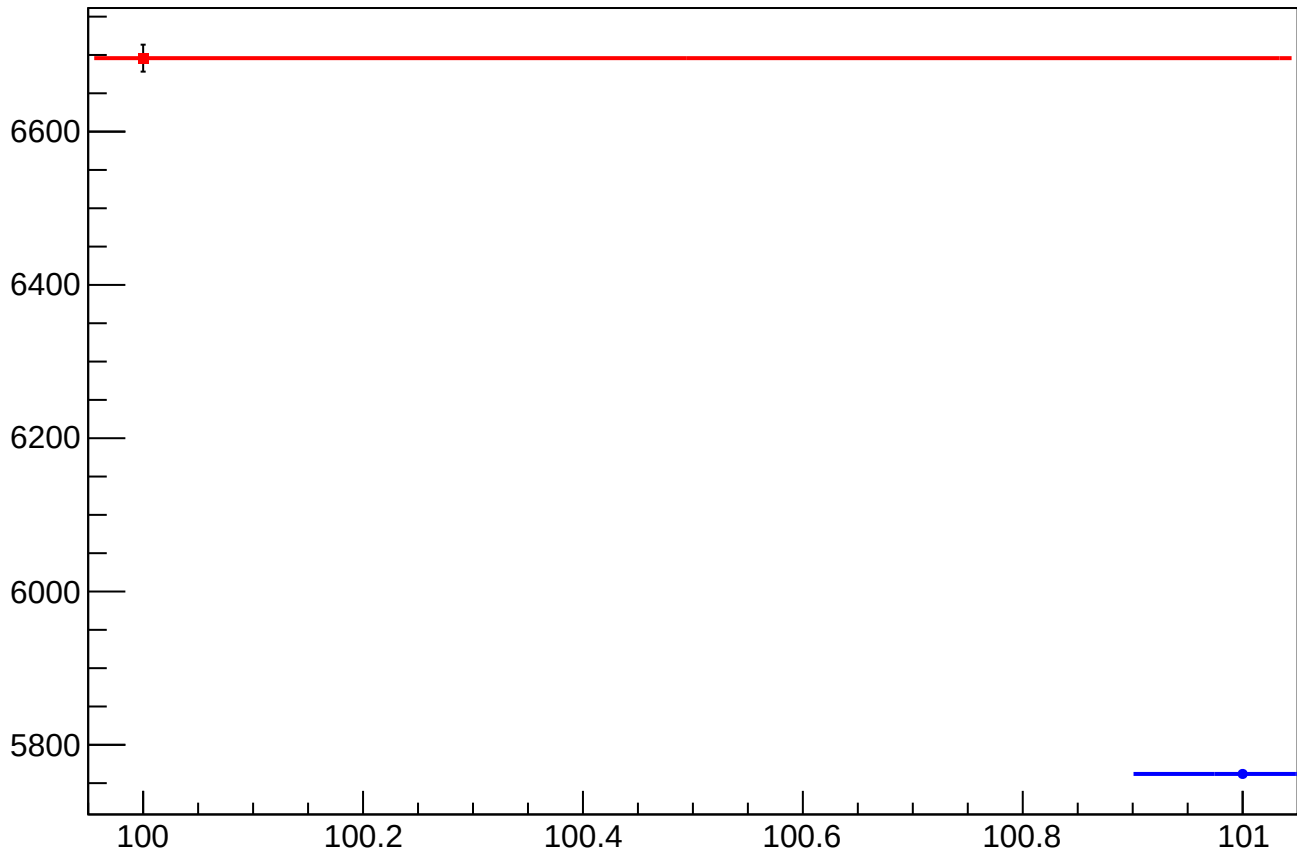
Right: 12257.322 $\pm$ 6843.736  $\chi^2/\text{NDF}$ : 0.5/1

In: 10897.617 $\pm$ 7118.416  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12257.322 $\pm$ 6843.736  $\chi^2/\text{NDF}$ : 0.5/1

# dit\_asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



Right In: 5762.007 $\pm$ 5.033  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6695.843 $\pm$ 17.590  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

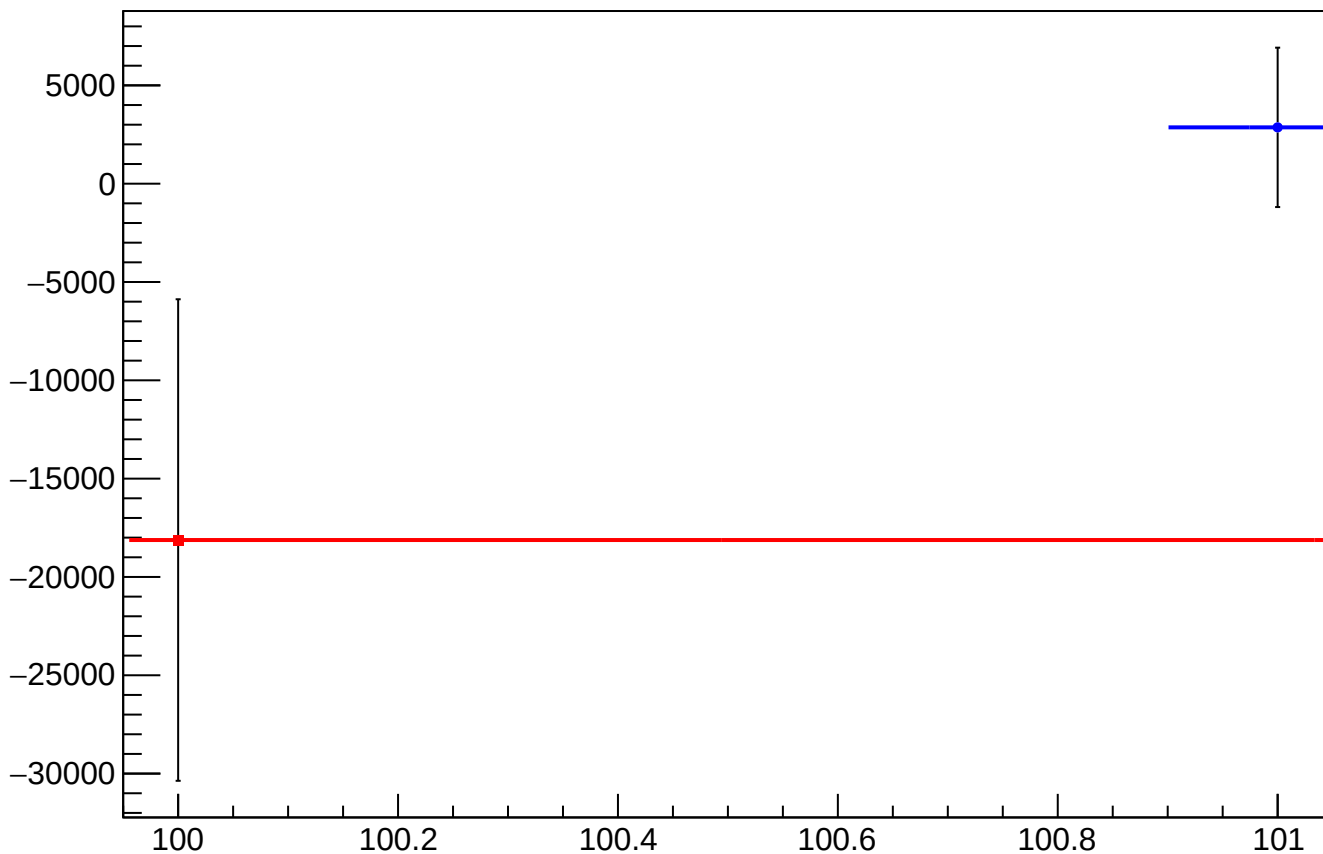
Right: 5832.684 $\pm$ 4.839  $\chi^2$ /NDF: 2605.1/1

In: 5762.007 $\pm$ 5.033  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5832.684 $\pm$ 4.839  $\chi^2$ /NDF: 2605.1/1

asym\_atr1l2\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2864.223+/-4052.752  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -18122.114+/-12244.502  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

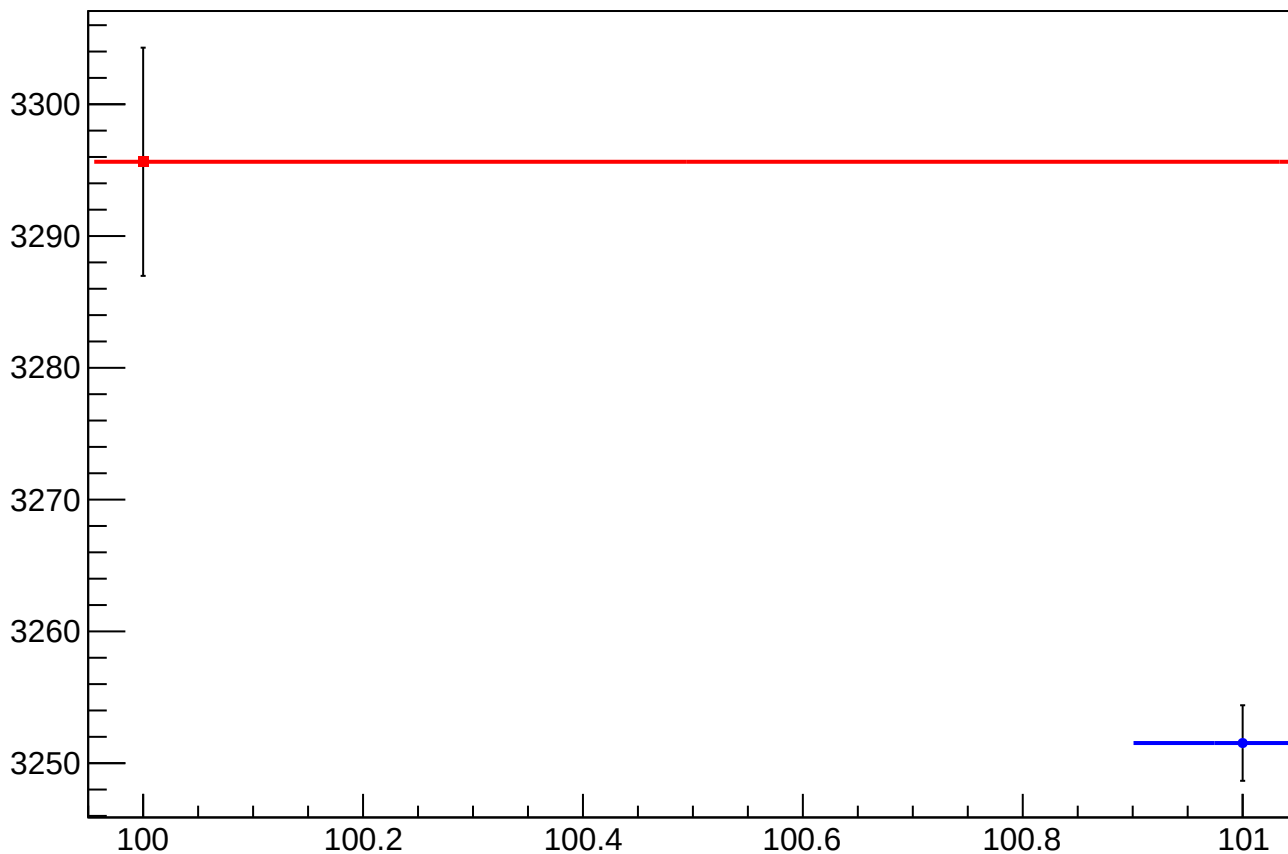
Right: 792.141+/-3847.479  $\chi^2$ /NDF: 2.6/1

In: 2864.223+/-4052.752  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 792.141+/-3847.479  $\chi^2$ /NDF: 2.6/1

asym\_atr1l2\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 3251.529 $\pm$ 2.866  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3295.636 $\pm$ 8.658  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 3255.884 $\pm$ 2.721  $\chi^2$ /NDF: 23.4/1

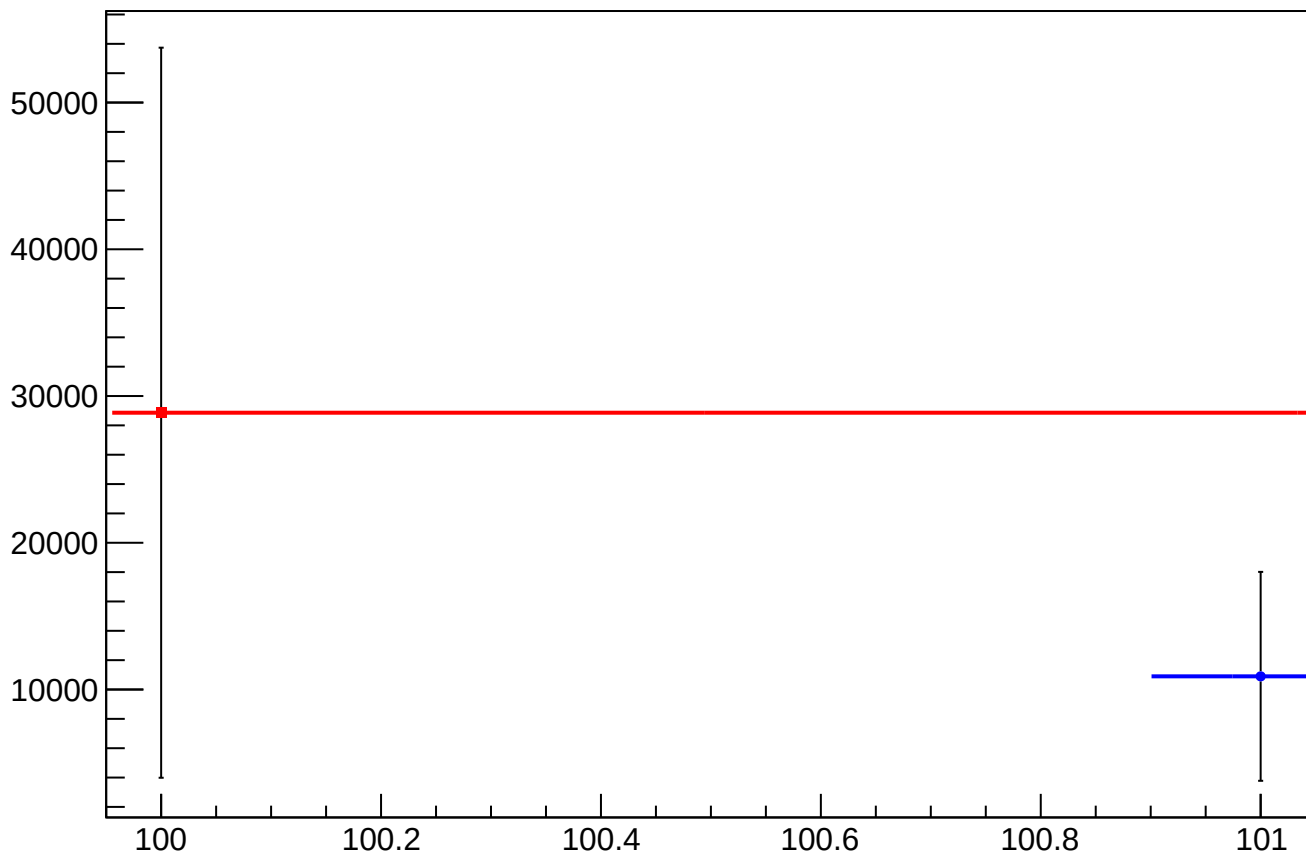
In: 3251.529 $\pm$ 2.866  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3255.884 $\pm$ 2.721  $\chi^2$ /NDF: 23.4/1



eigen\_dit\_asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



Right In: 10897.620+/-7118.415  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28862.835+/-24876.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

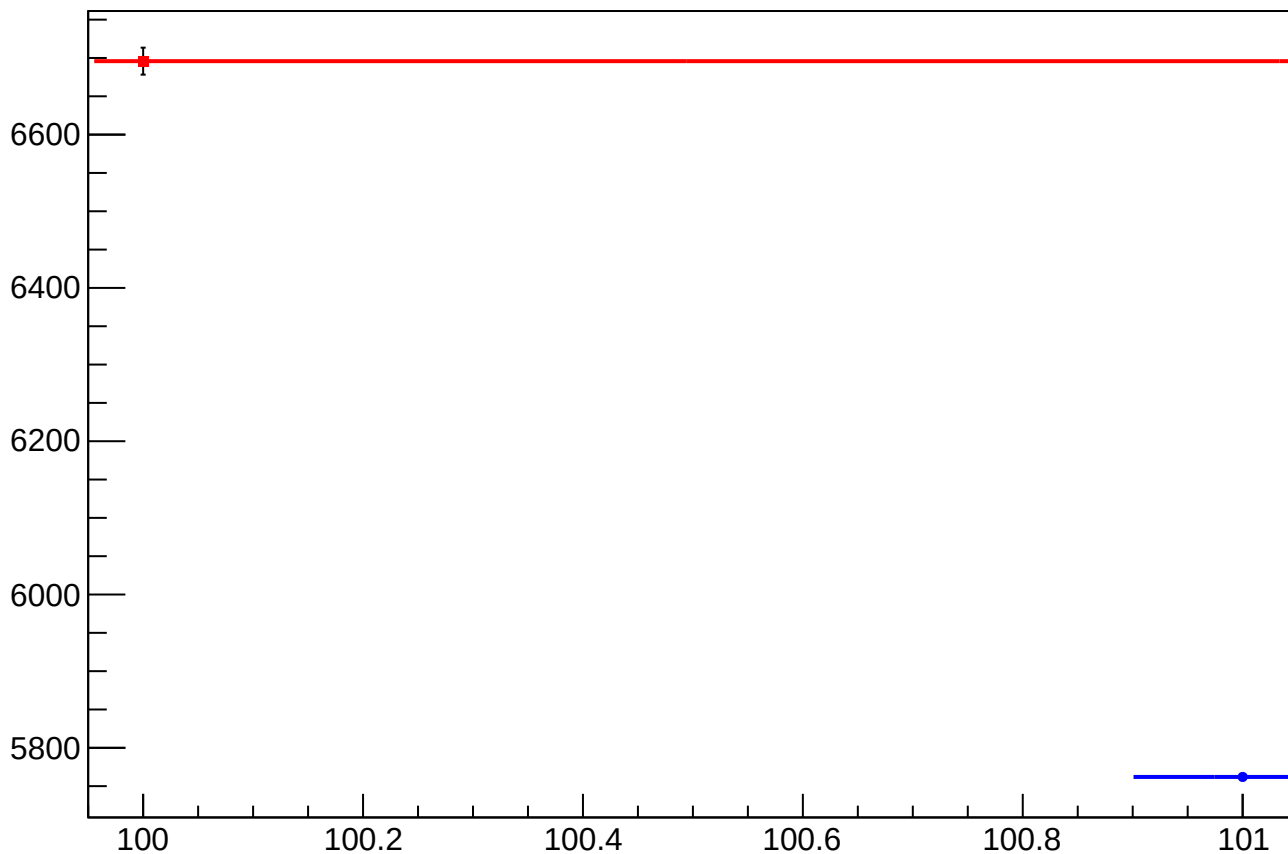
Right: 12257.324+/-6843.736  $\chi^2/\text{NDF}$ : 0.5/1

In: 10897.620+/-7118.415  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12257.324+/-6843.736  $\chi^2/\text{NDF}$ : 0.5/1

eigen\_dit\_asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



Right In: 5762.007+/-5.033  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6695.842+/-17.590  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

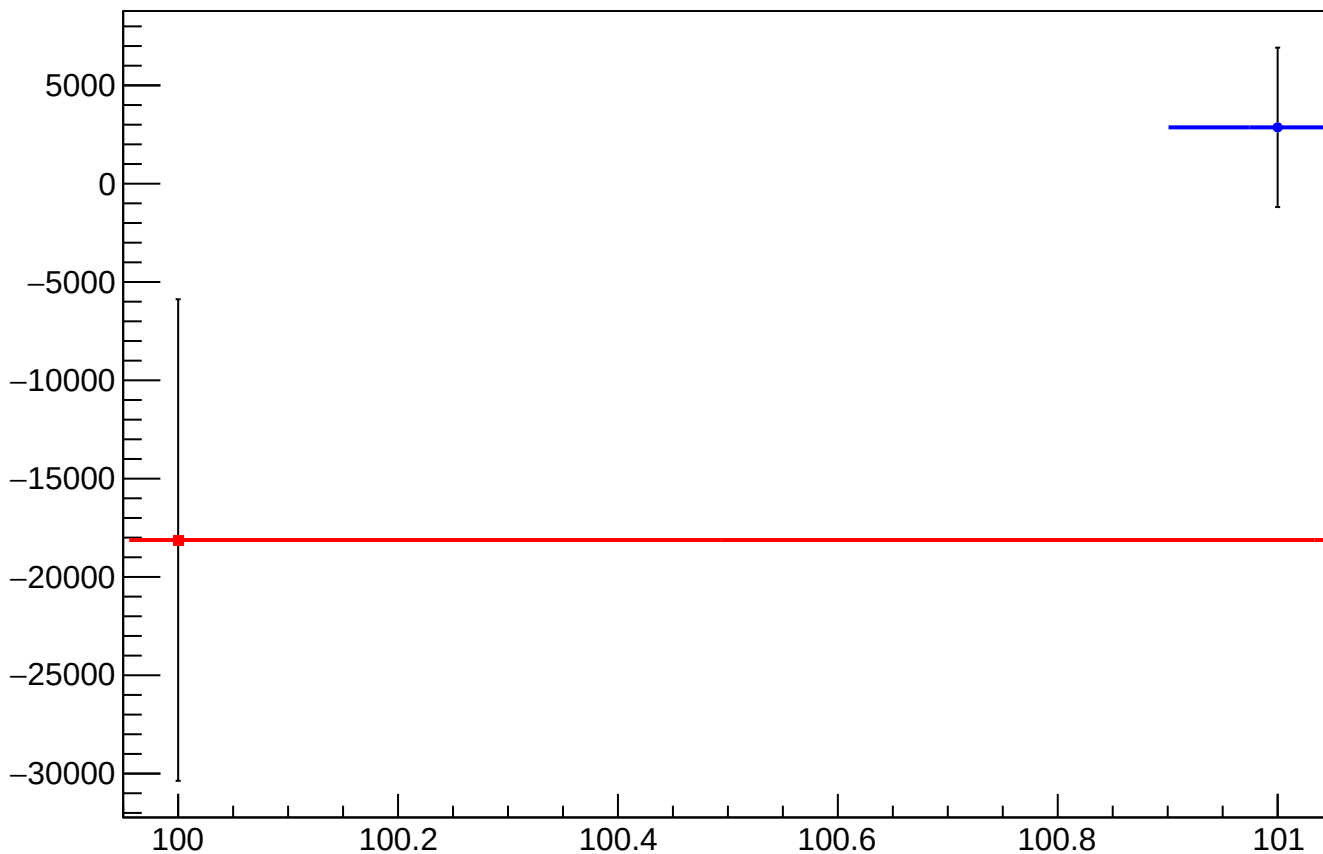
Right: 5832.684+/-4.839  $\chi^2/\text{NDF}$ : 2605.0/1

In: 5762.007+/-5.033  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5832.684+/-4.839  $\chi^2/\text{NDF}$ : 2605.0/1

asym\_atr1l2\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2864.225+/-4052.746  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18122.115+/-12244.484  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

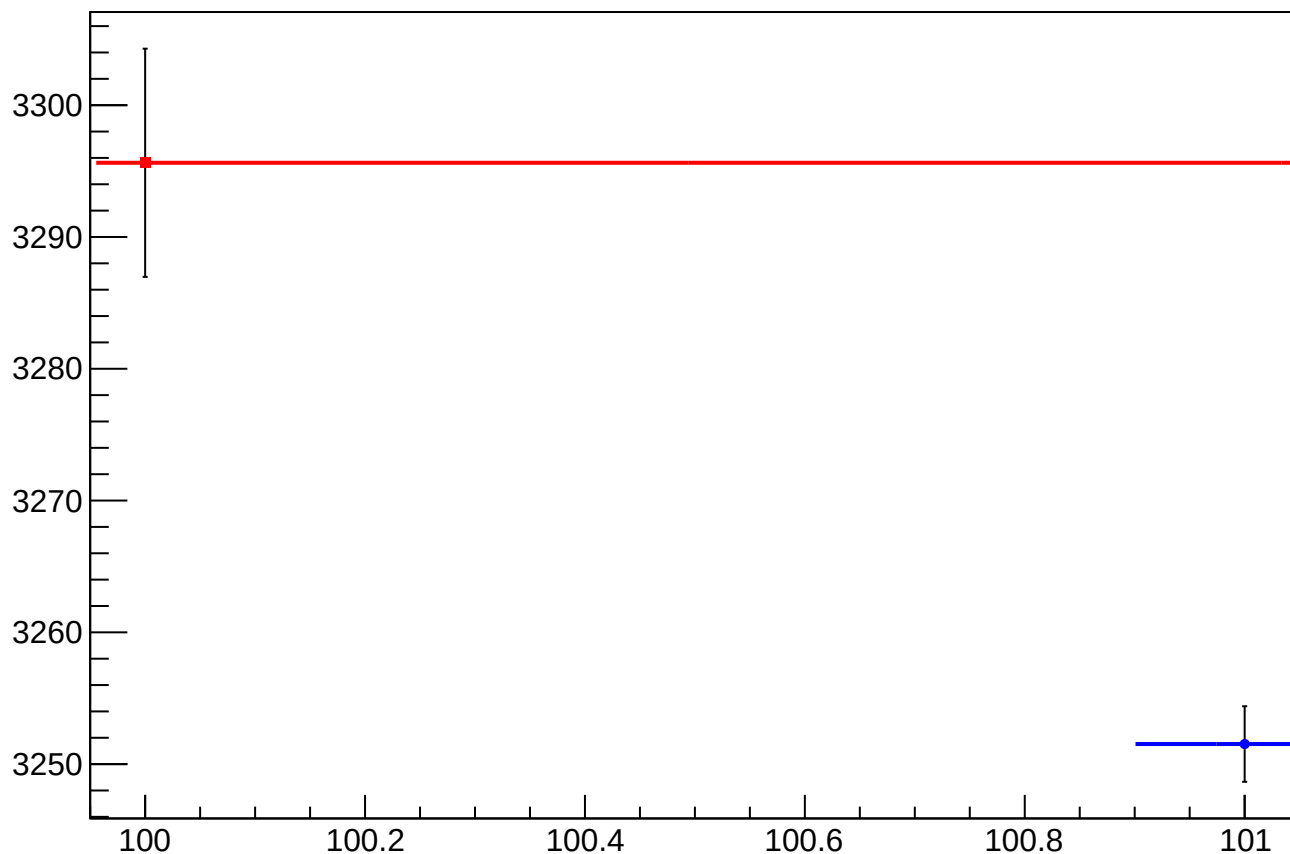
Right: 792.142+/-3847.474  $\chi^2/\text{NDF}$ : 2.6/1

In: 2864.225+/-4052.746  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 792.142+/-3847.474  $\chi^2/\text{NDF}$ : 2.6/1

asym\_atr1l2\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 3251.525 $\pm$ 2.866  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3295.631 $\pm$ 8.658  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

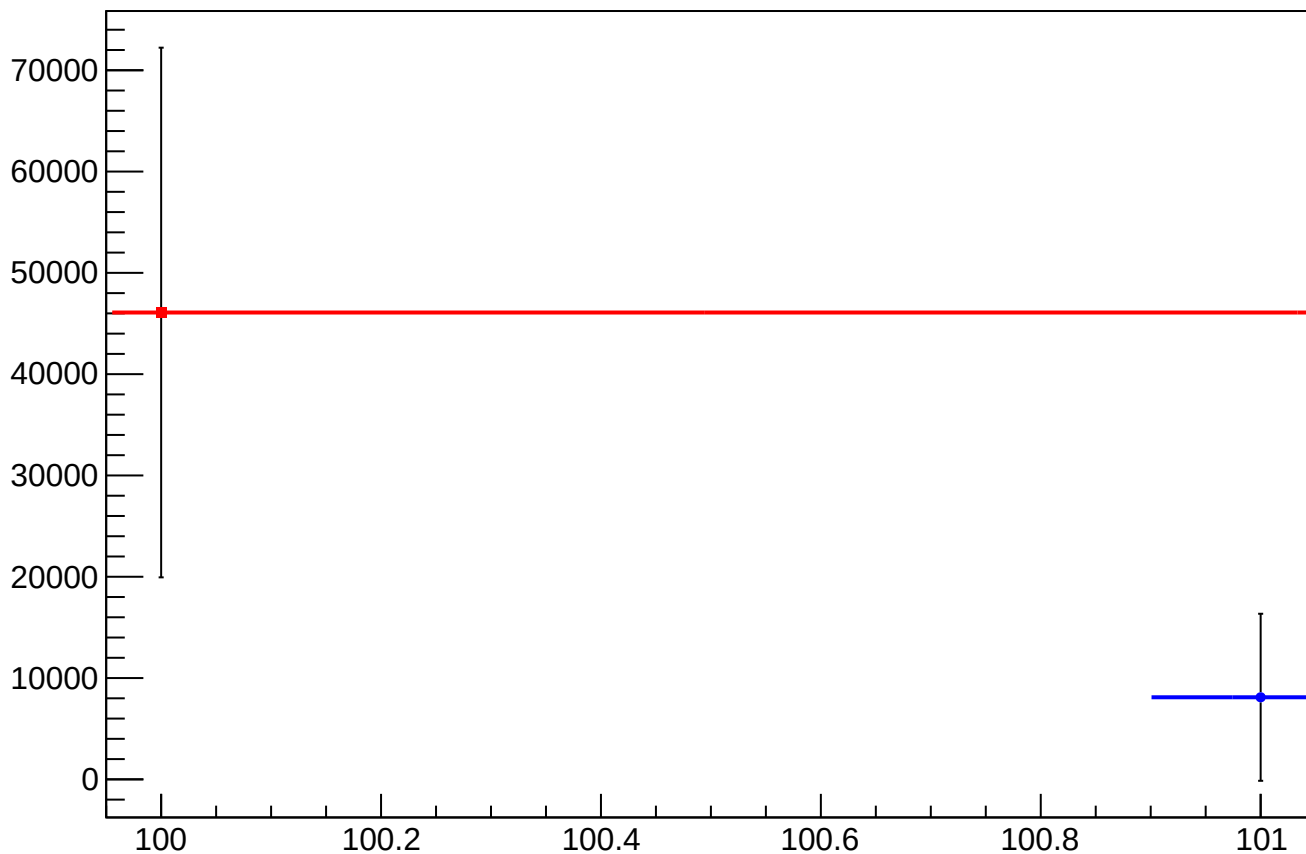
Right: 3255.880 $\pm$ 2.721  $\chi^2/\text{NDF}$ : 23.4/1

In: 3251.525 $\pm$ 2.866  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3255.880 $\pm$ 2.721  $\chi^2/\text{NDF}$ : 23.4/1

# asym\_atr1l2\_dd\_mean vs Slug, Sign Corrected



Right In: 8102.524+/-8245.009  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46085.352+/-26144.448  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

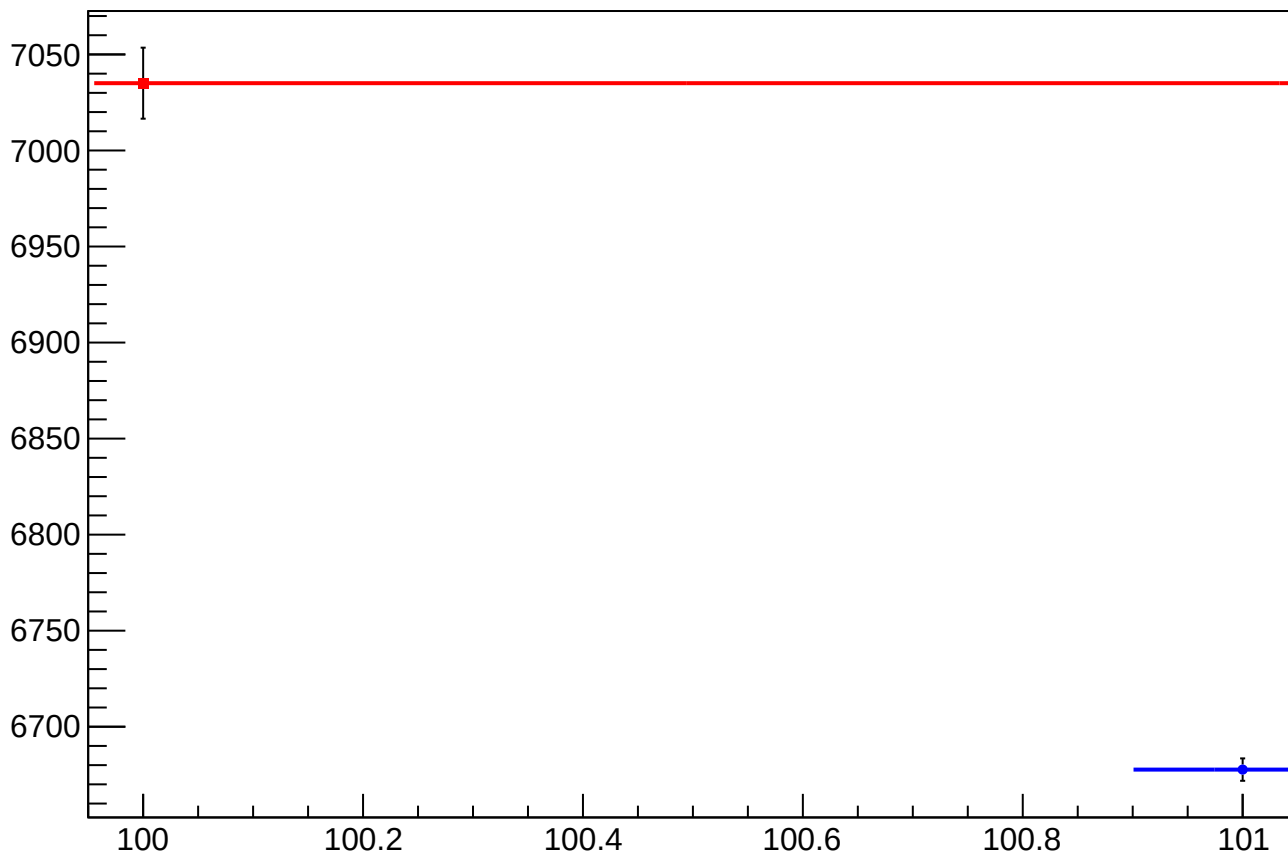
Right: 11538.368+/-7863.259  $\chi^2/\text{NDF}$ : 1.9/1

In: 8102.524+/-8245.009  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11538.368+/-7863.259  $\chi^2/\text{NDF}$ : 1.9/1

# asym\_atr1l2\_dd\_rms vs Slug, Sign Corrected



Right In: 6677.676+/-5.830  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7035.039+/-18.487  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

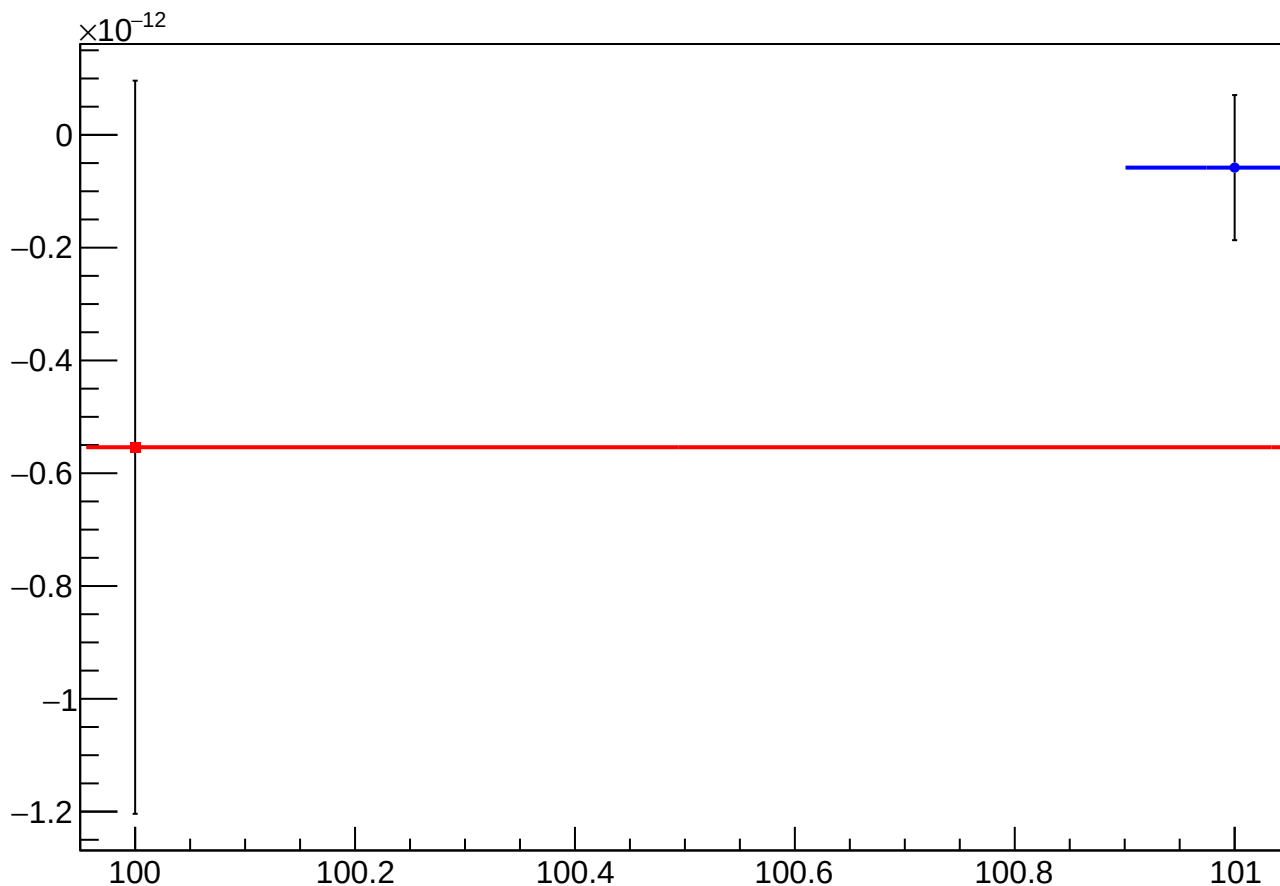
Right: 6710.003+/-5.560  $\chi^2/\text{NDF}$ : 339.9/1

In: 6677.676+/-5.830  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6710.003+/-5.560  $\chi^2/\text{NDF}$ : 339.9/1

asym\_atr1l2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

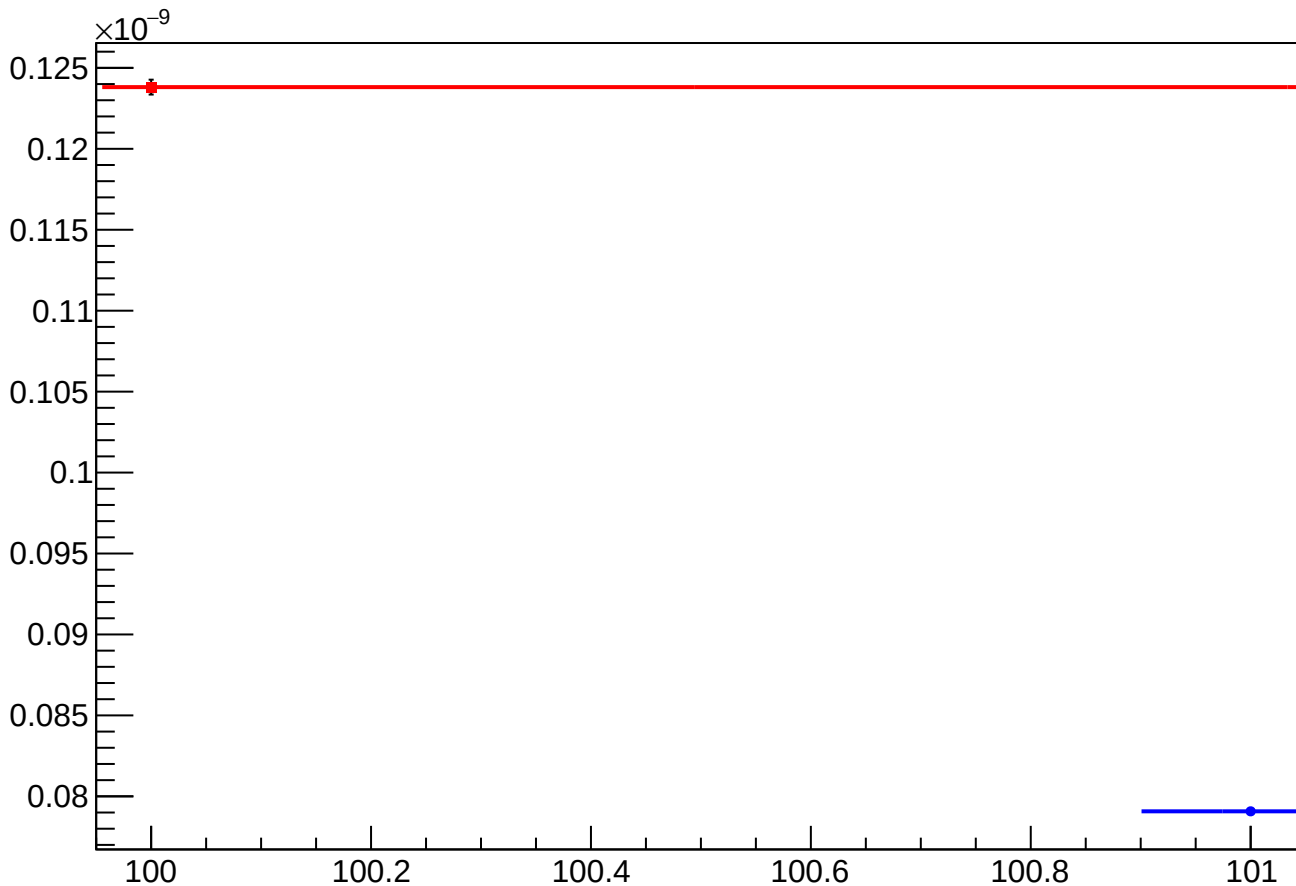
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.6/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.6/1

asym\_atr1l2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9116.5/1

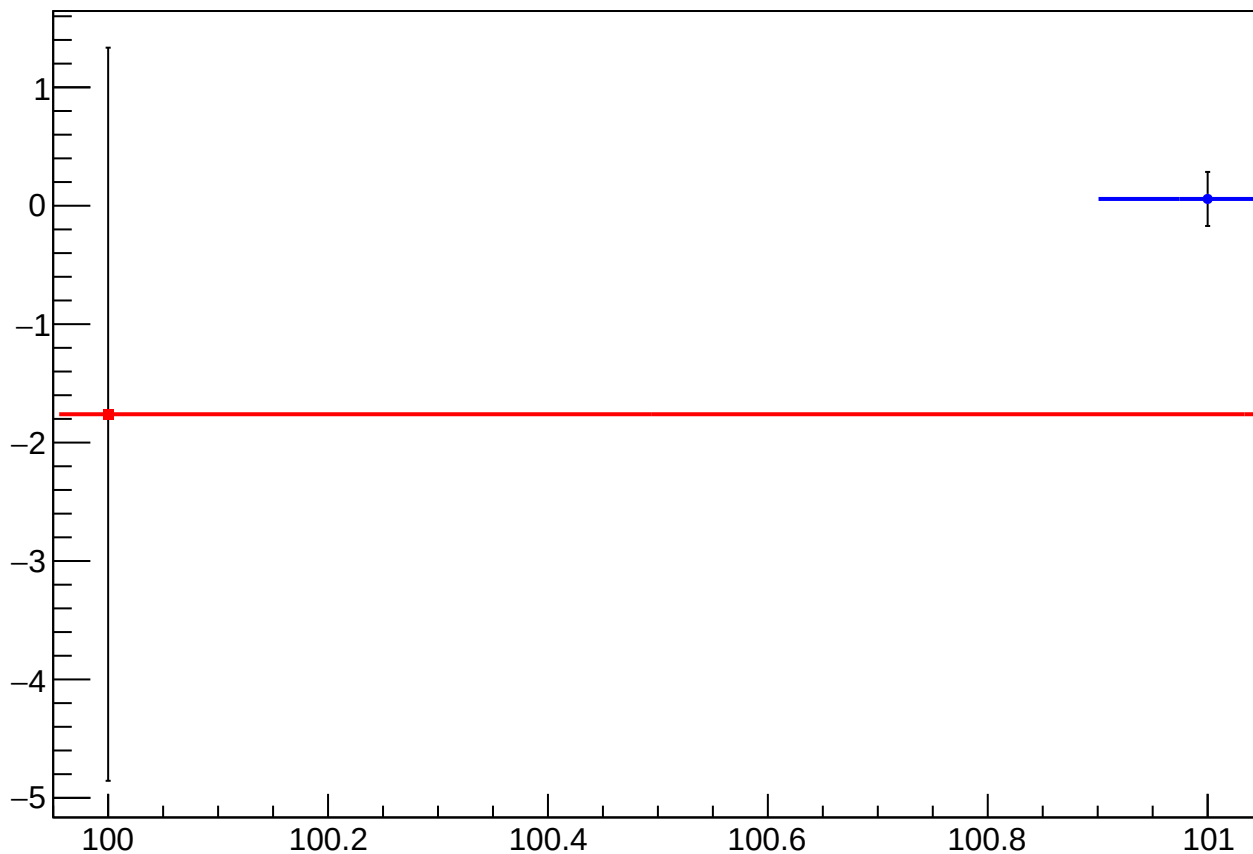
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9116.5/1



asym\_atr1l2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.057 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.761 $\pm$ 3.095  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

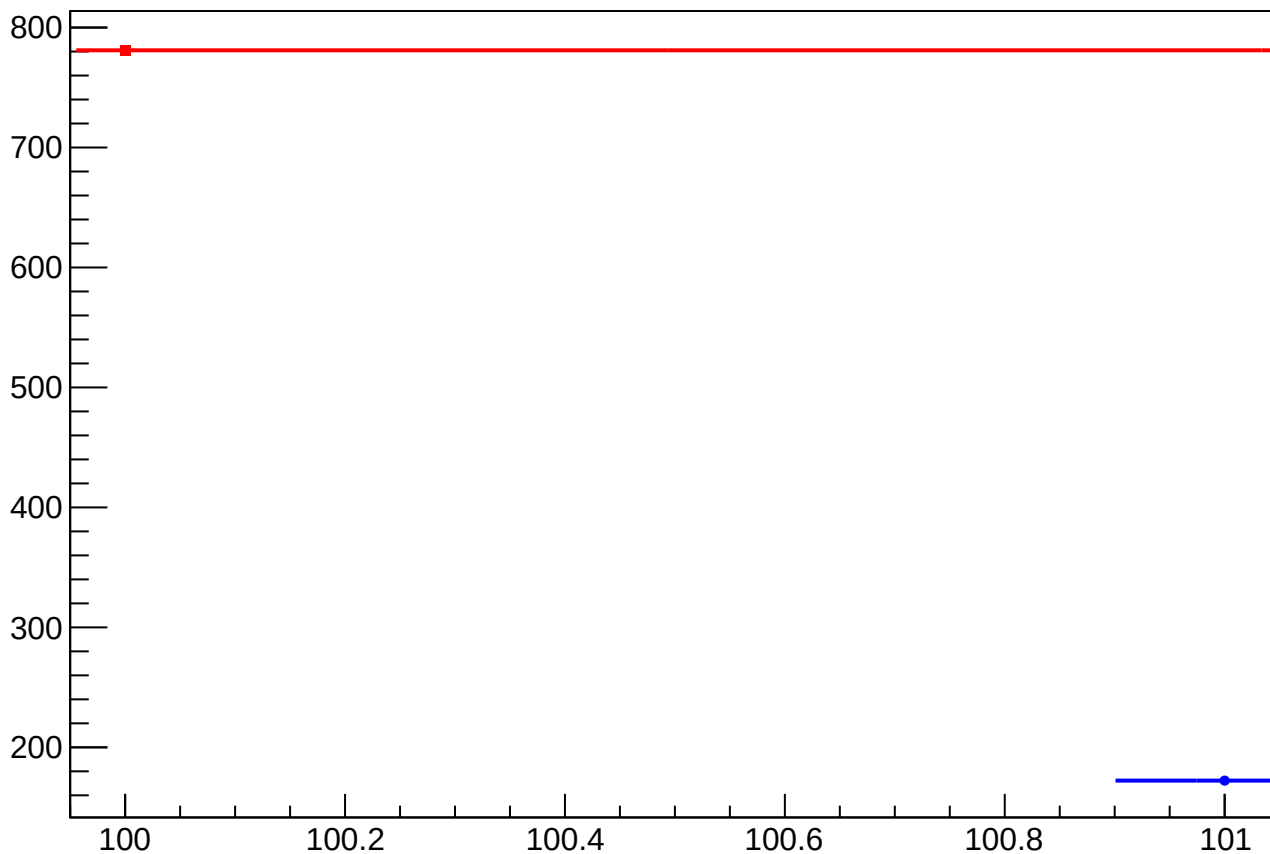
Right: 0.047 $\pm$ 0.228  $\chi^2$ /NDF: 0.3/1

In: 0.057 $\pm$ 0.228  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.047 $\pm$ 0.228  $\chi^2$ /NDF: 0.3/1

asym\_atr1l2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 172.271 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 781.037 $\pm$ 2.189  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

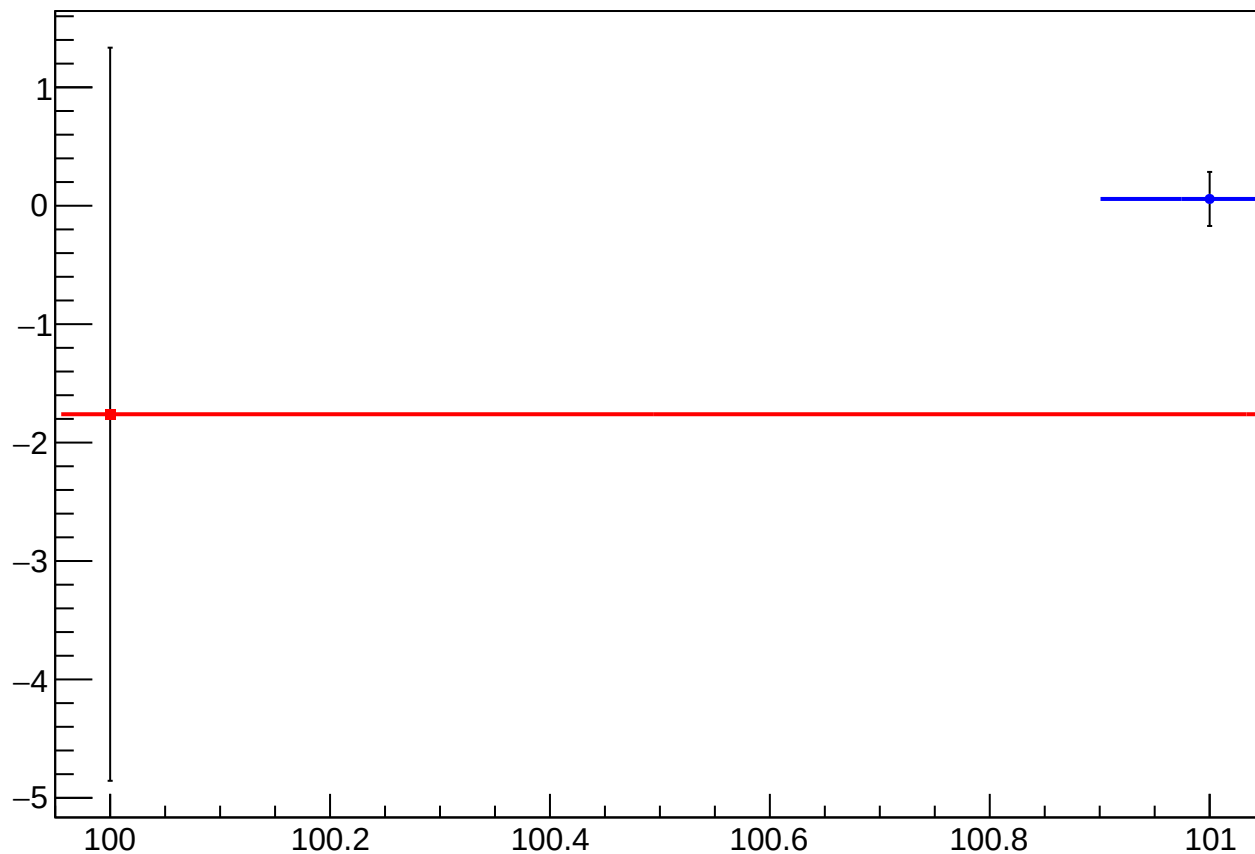
Right: 175.562 $\pm$ 0.161  $\chi^2$ /NDF: 76941.9/1

In: 172.271 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 175.562 $\pm$ 0.161  $\chi^2$ /NDF: 76941.9/1

asym\_atr1l2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.057 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.761 $\pm$ 3.095  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

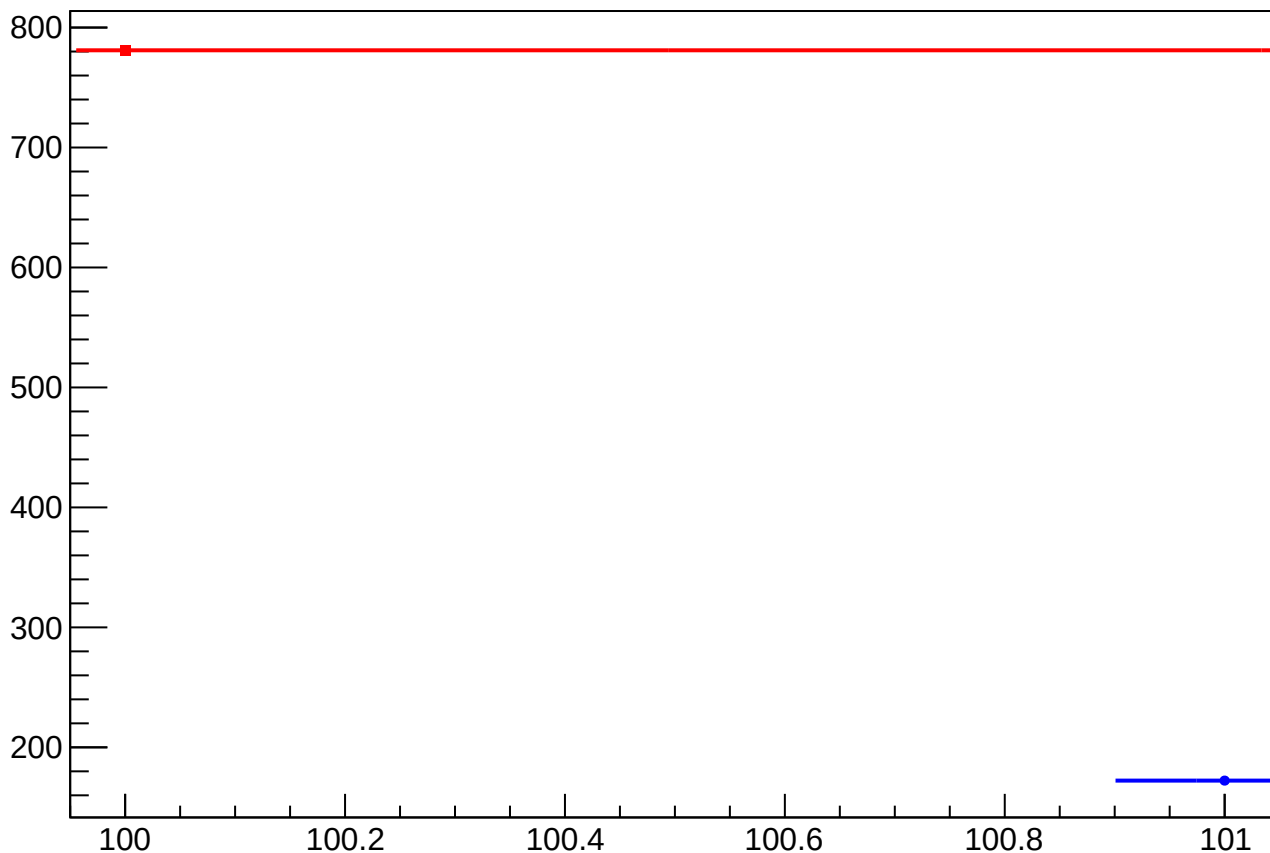
Right: 0.047 $\pm$ 0.228  $\chi^2$ /NDF: 0.3/1

In: 0.057 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.047 $\pm$ 0.228  $\chi^2$ /NDF: 0.3/1

asym\_atr1l2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 172.271+/-0.161  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 781.037+/-2.189  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

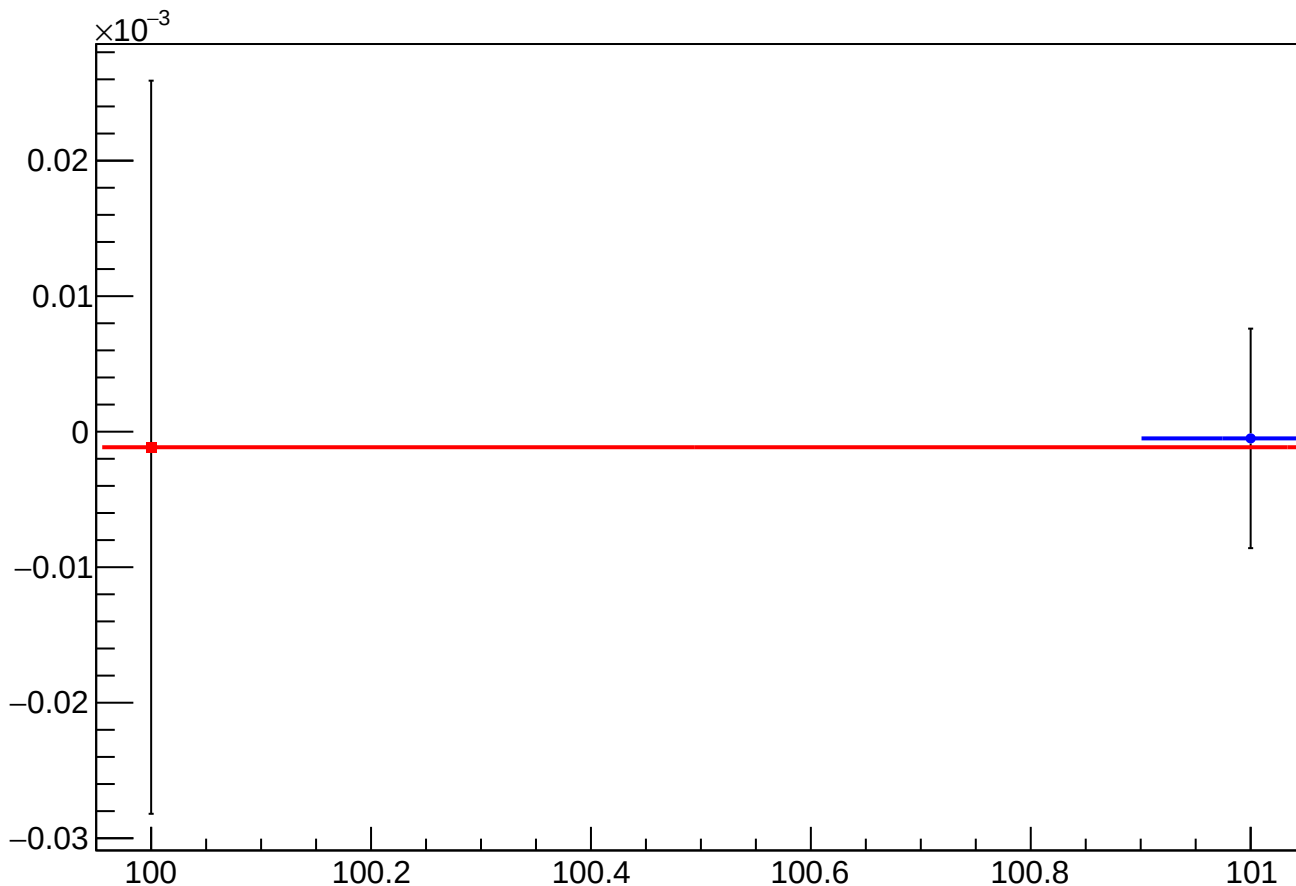
Right: 175.562+/-0.161  $\chi^2/\text{NDF}$ : 76941.9/1

In: 172.271+/-0.161  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 175.562+/-0.161  $\chi^2/\text{NDF}$ : 76941.9/1

asym\_atr1l2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

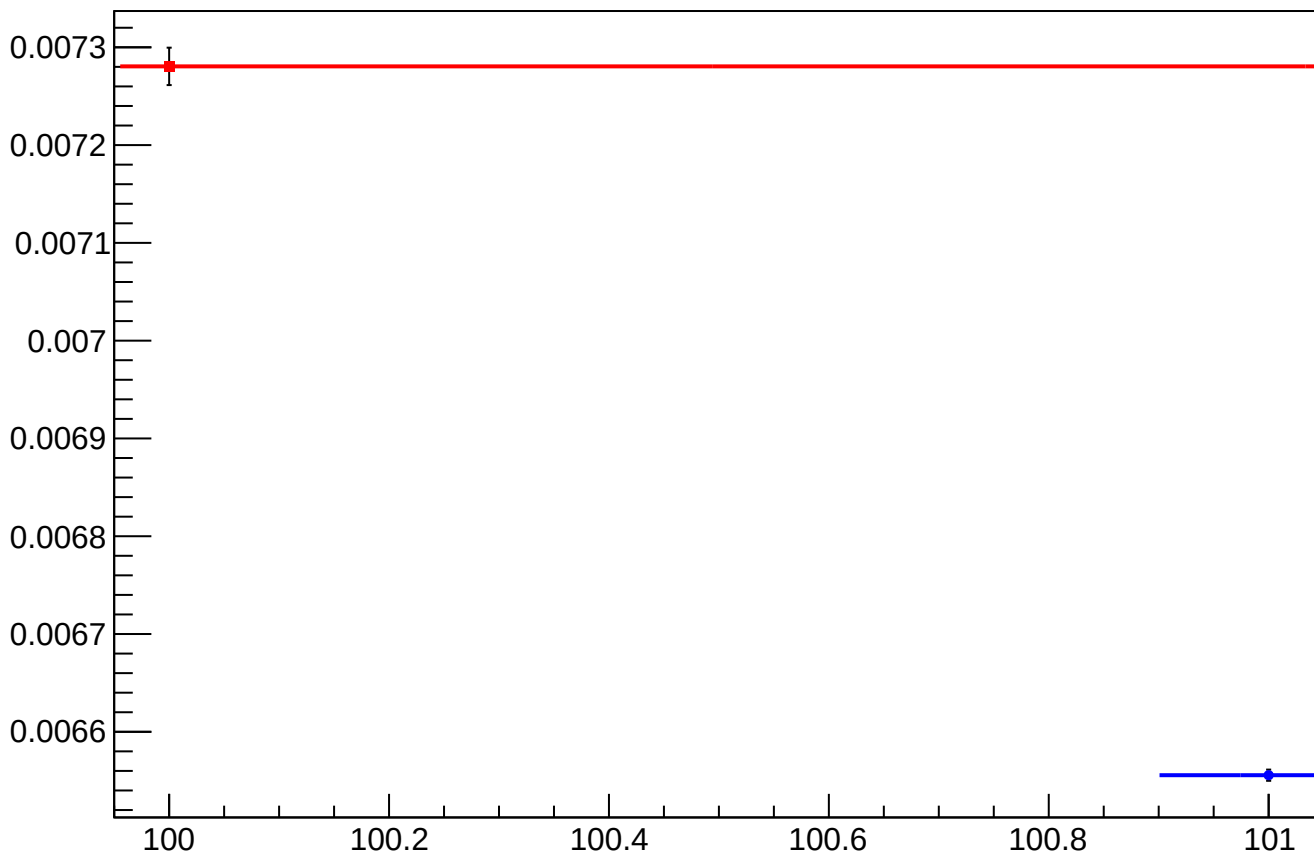
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr1l2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

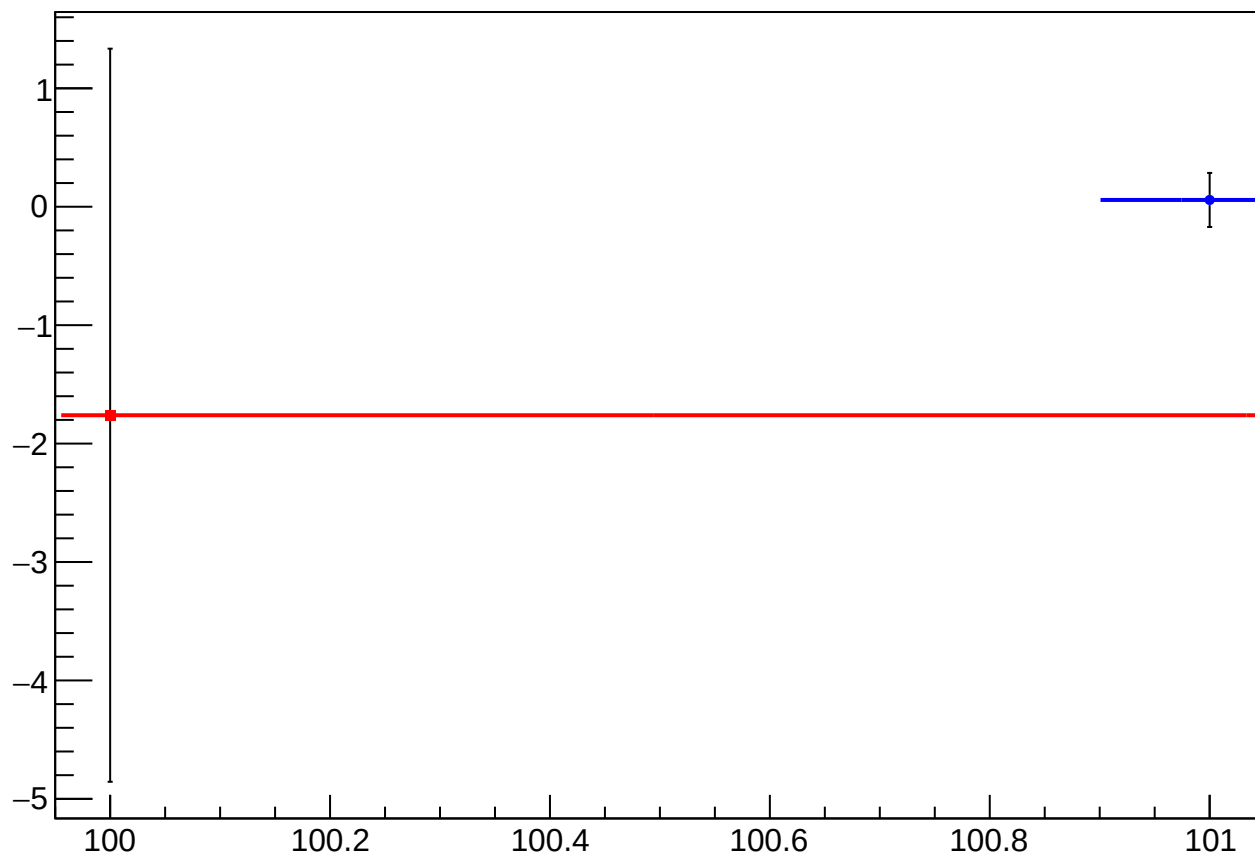
Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1318.1/1

In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1318.1/1

asym\_atr1l2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.057 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.761 $\pm$ 3.095  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

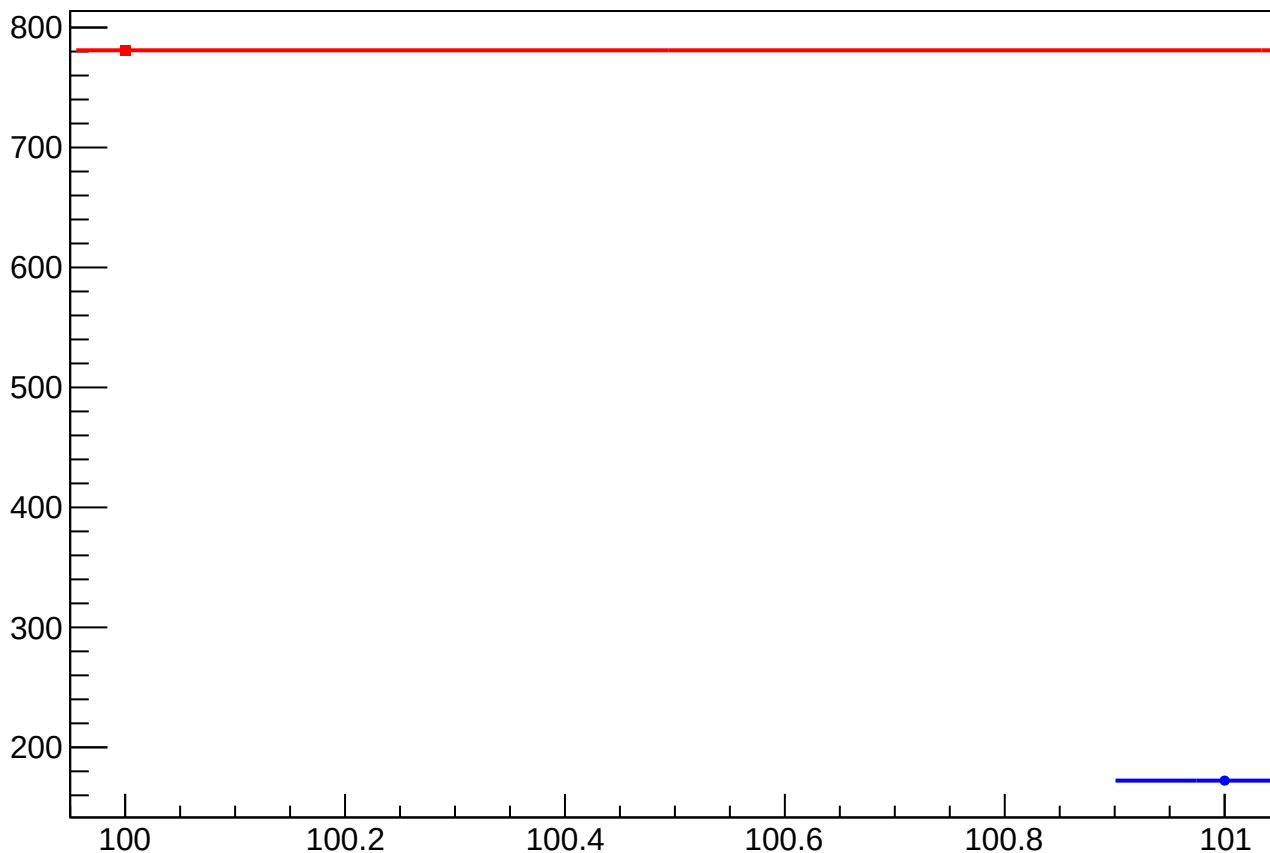
Right: 0.047 $\pm$ 0.228  $\chi^2$ /NDF: 0.3/1

In: 0.057 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.047 $\pm$ 0.228  $\chi^2$ /NDF: 0.3/1

asym\_atr1l2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 172.267 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 781.029 $\pm$ 2.189  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 175.559 $\pm$ 0.161  $\chi^2$ /NDF: 76942.3/1

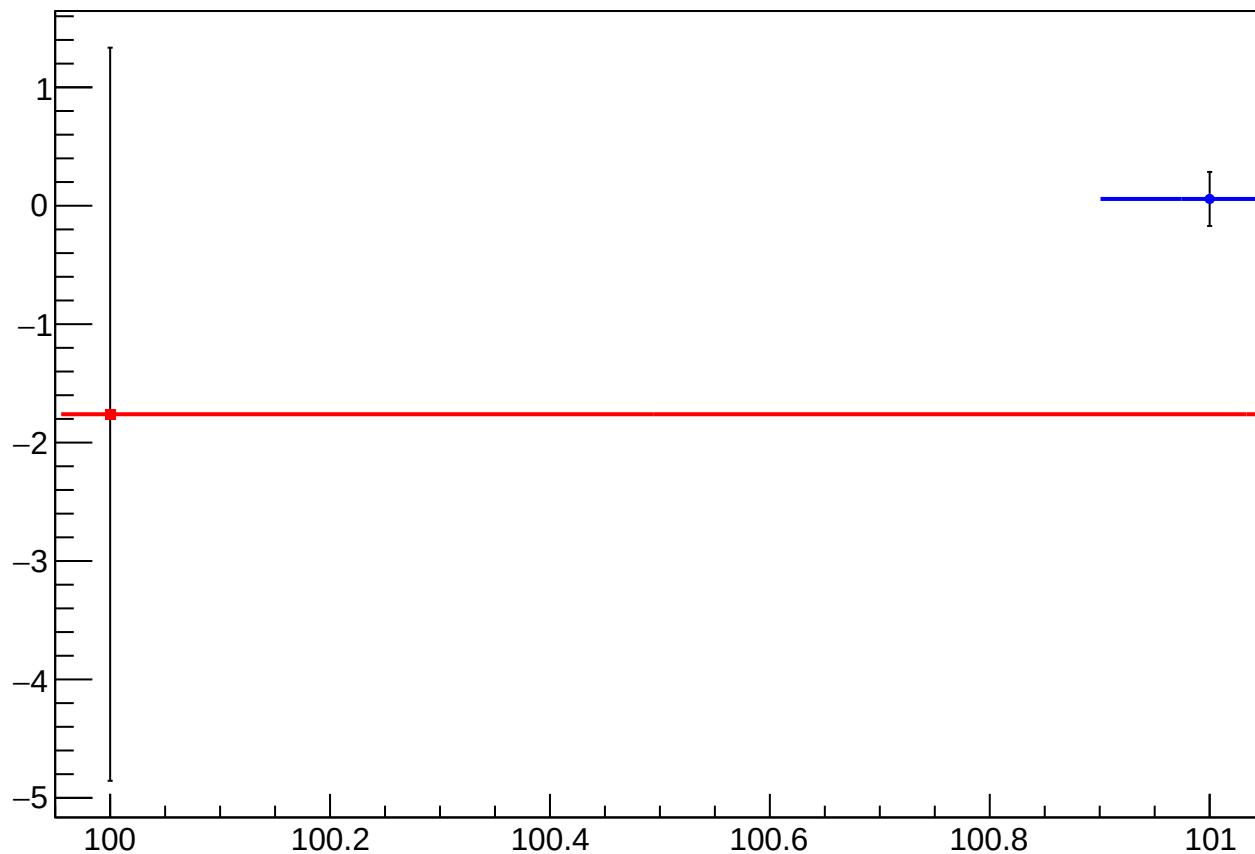
In: 172.267 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 175.559 $\pm$ 0.161  $\chi^2$ /NDF: 76942.3/1



asym\_atr1l2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.057 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.761 $\pm$ 3.095  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

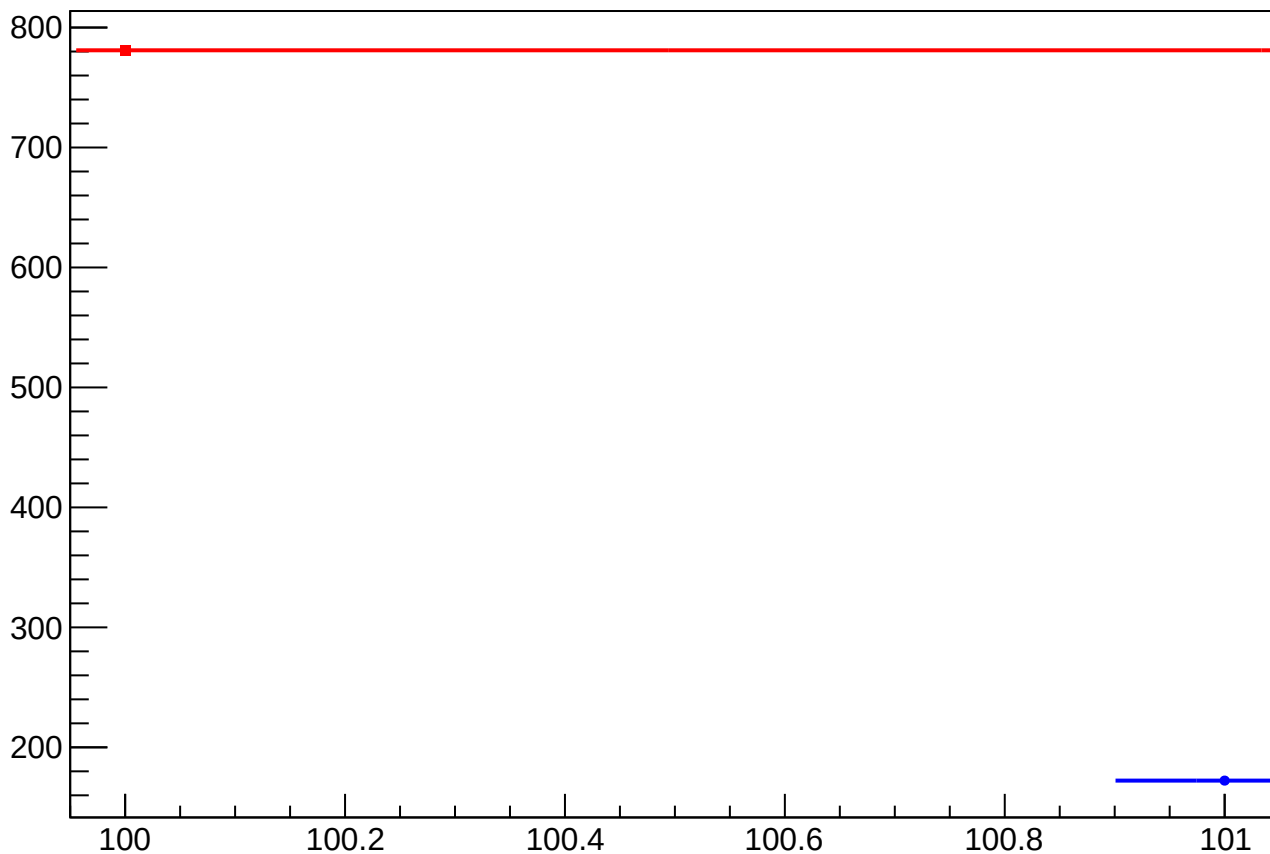
Right: 0.047 $\pm$ 0.228  $\chi^2$ /NDF: 0.3/1

In: 0.057 $\pm$ 0.228  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.047 $\pm$ 0.228  $\chi^2$ /NDF: 0.3/1

asym\_atr1l2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 172.267 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 781.029 $\pm$ 2.189  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

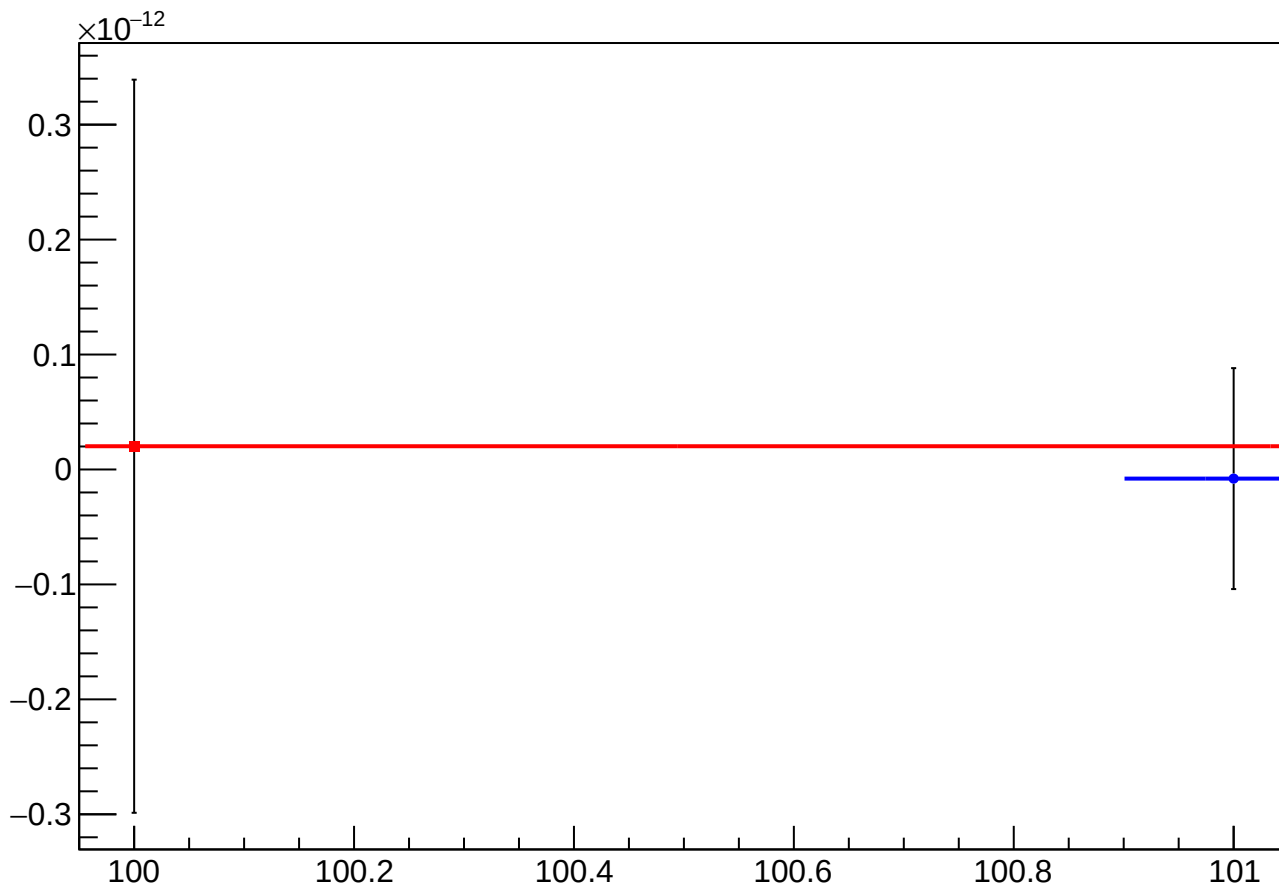
Right: 175.559 $\pm$ 0.161  $\chi^2$ /NDF: 76942.3/1

In: 172.267 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 175.559 $\pm$ 0.161  $\chi^2$ /NDF: 76942.3/1

asym\_atr1l2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

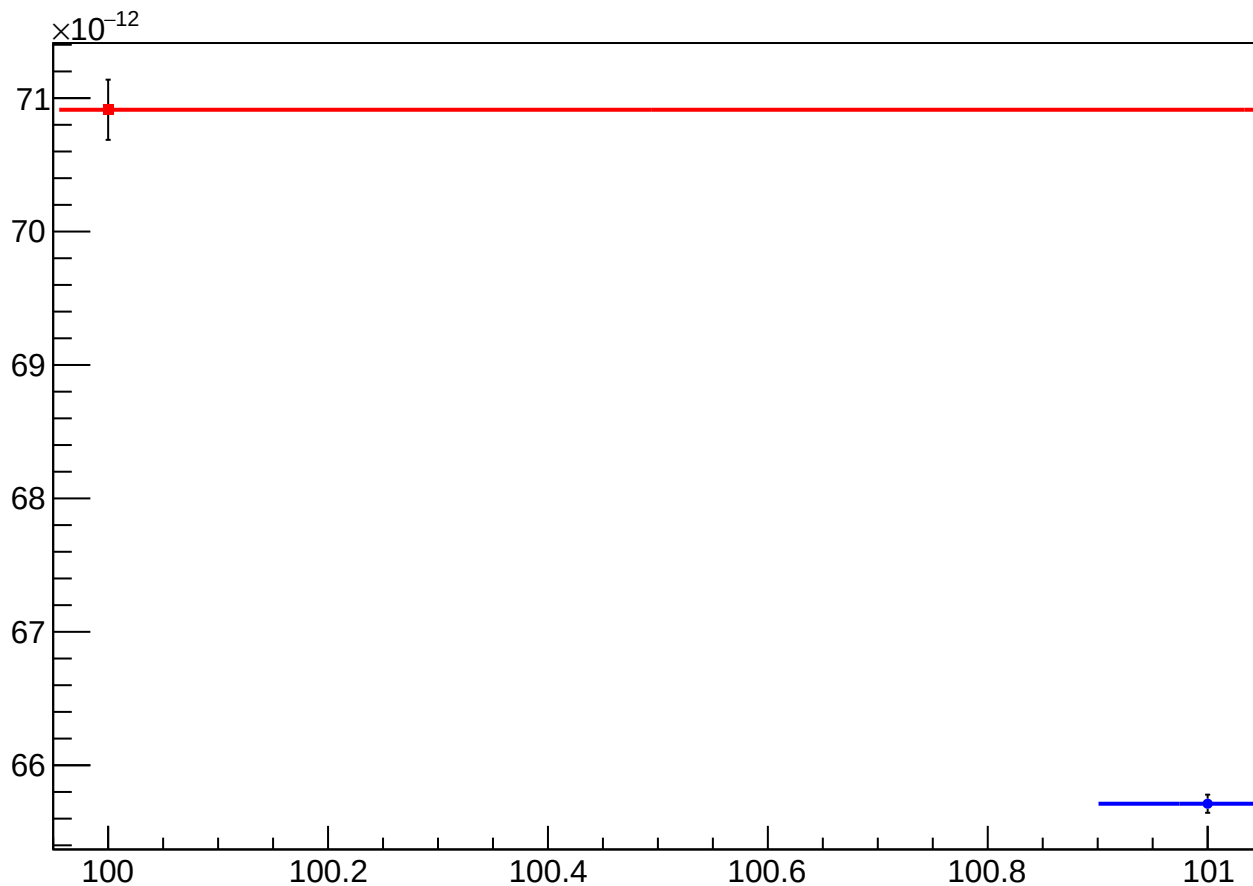
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atr1l2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

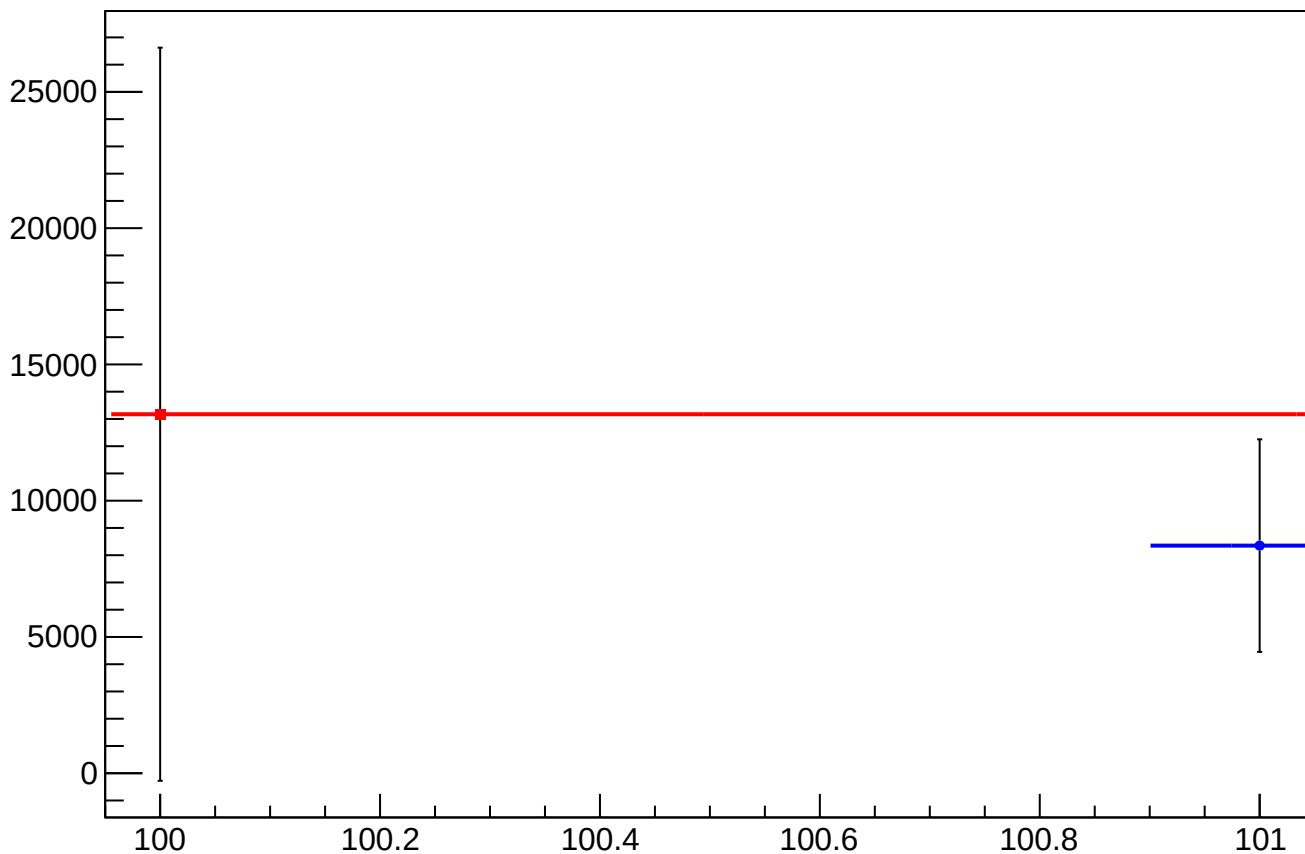
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 487.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 487.7/1

reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 8351.777+/-3900.093  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 13172.715+/-13450.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

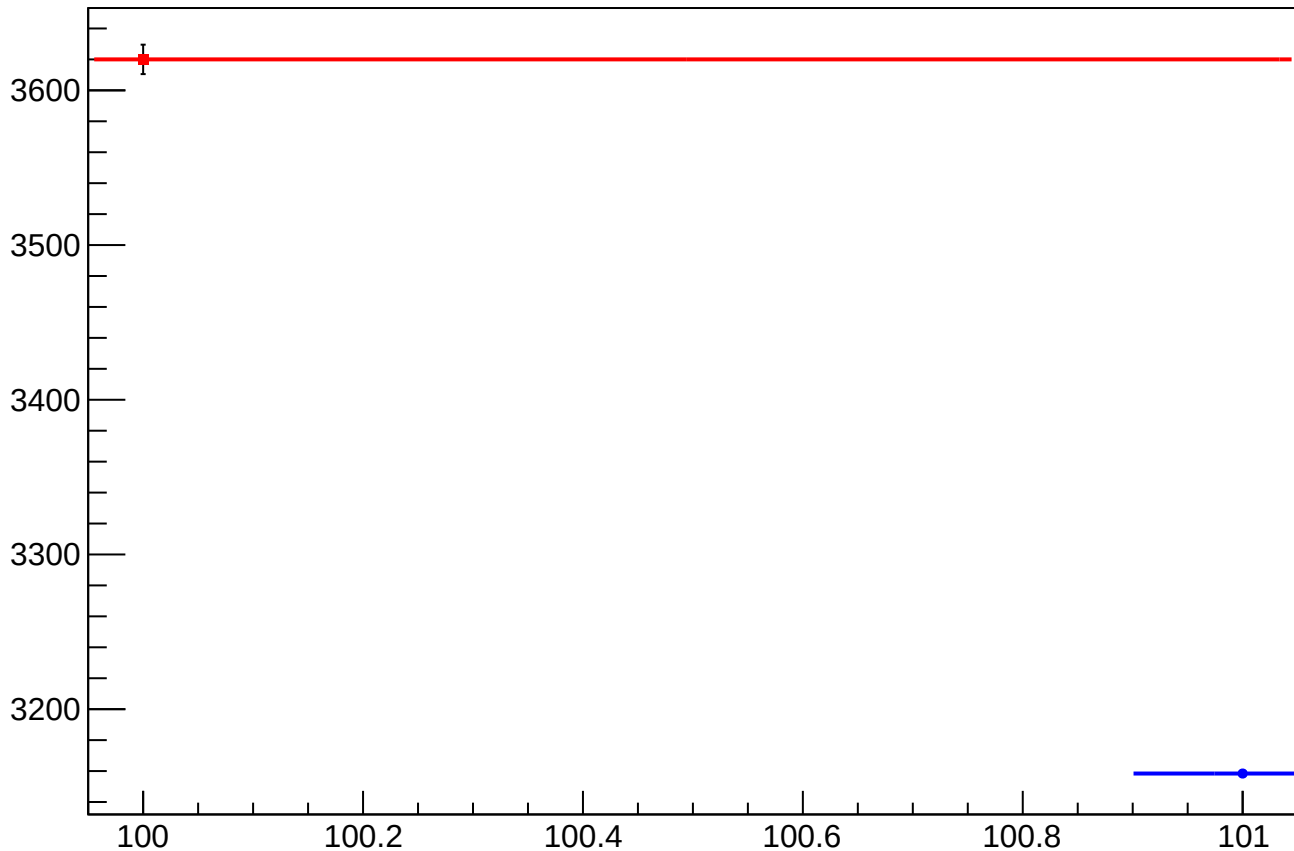
Right: 8725.680+/-3745.799  $\chi^2/\text{NDF}$ : 0.1/1

In: 8351.777+/-3900.093  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 8725.680+/-3745.799  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3158.404 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3620.015 $\pm$ 9.511  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

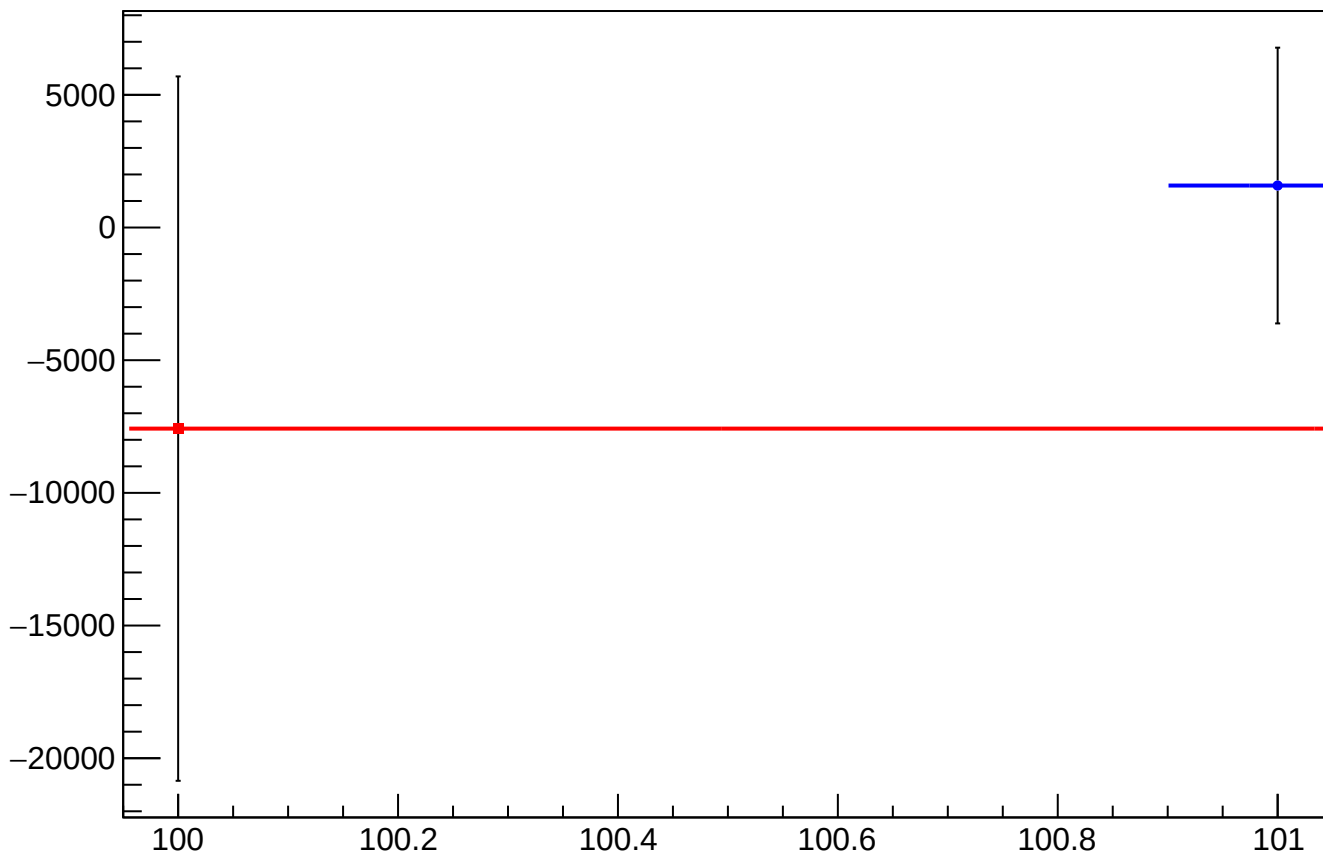
Right: 3194.205 $\pm$ 2.649  $\chi^2$ /NDF: 2173.0/1

In: 3158.404 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3194.205 $\pm$ 2.649  $\chi^2$ /NDF: 2173.0/1

asym\_atl\_dd\_atr\_dd\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1582.202+/-5196.012  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7578.128+/-13272.992  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

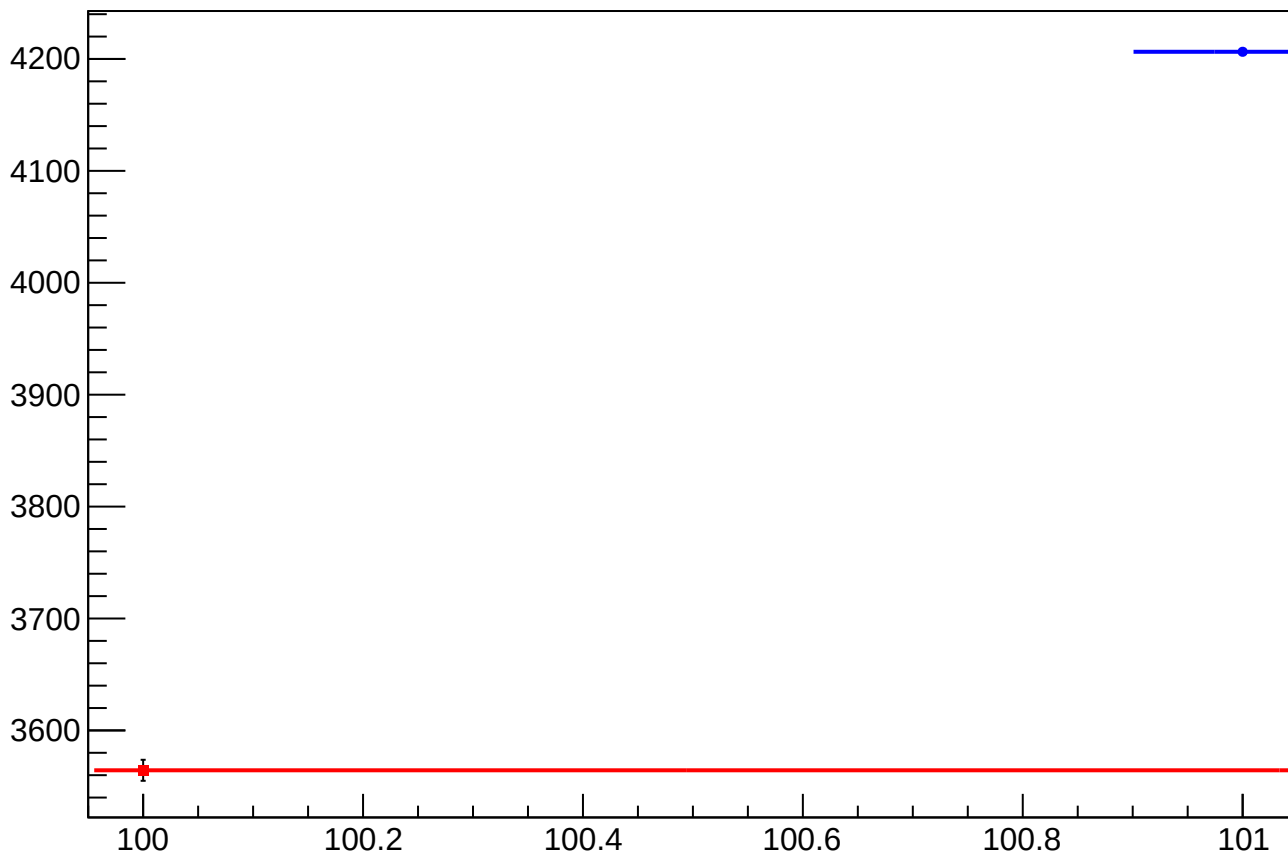
Right: 364.923+/-4838.473  $\chi^2/\text{NDF}$ : 0.4/1

In: 1582.202+/-5196.012  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 364.923+/-4838.473  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atl\_dd\_atr\_dd\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4206.409+/-3.674  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3564.365+/-9.385  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4121.090+/-3.421  $\chi^2/\text{NDF}$ : 4057.9/1

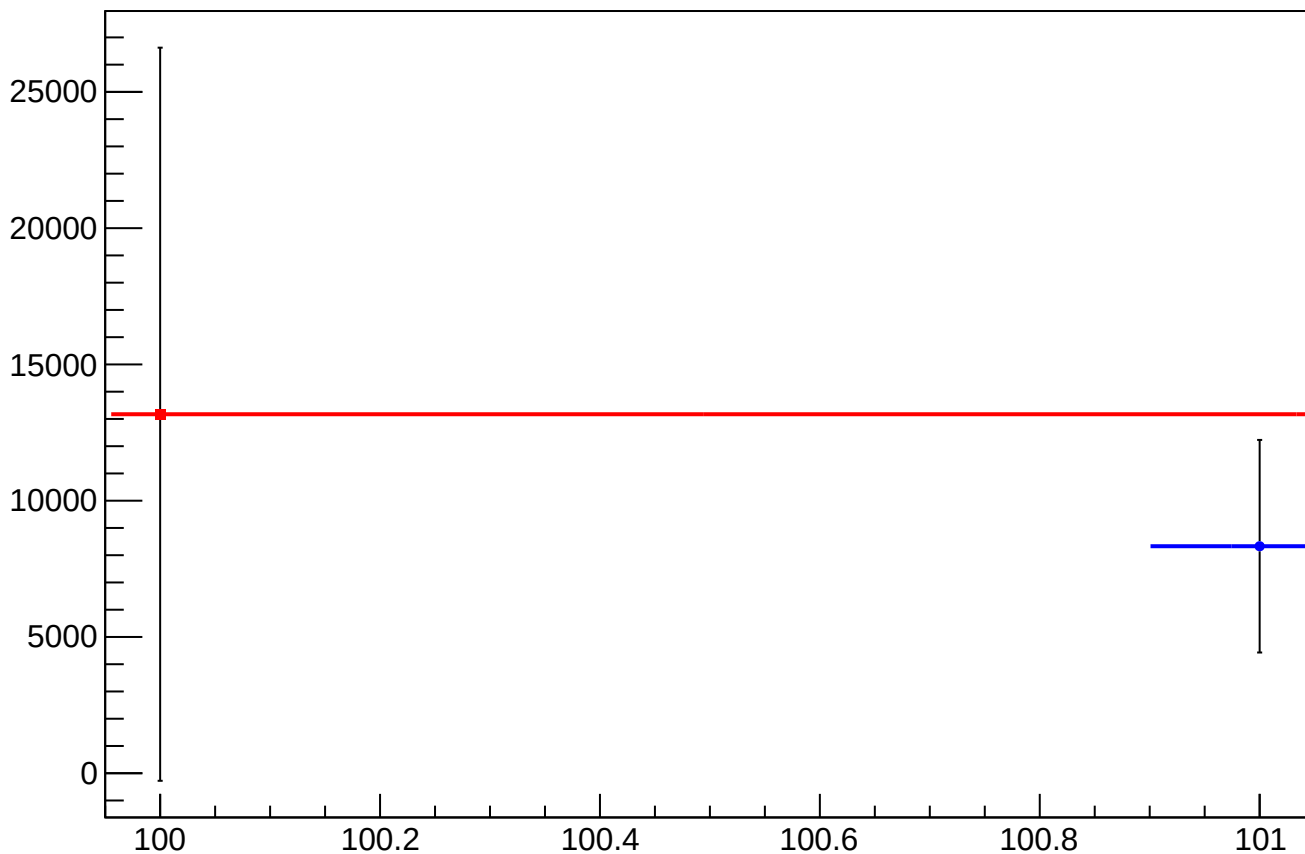
In: 4206.409+/-3.674  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4121.090+/-3.421  $\chi^2/\text{NDF}$ : 4057.9/1



cor\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 13172.682+/-13450.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

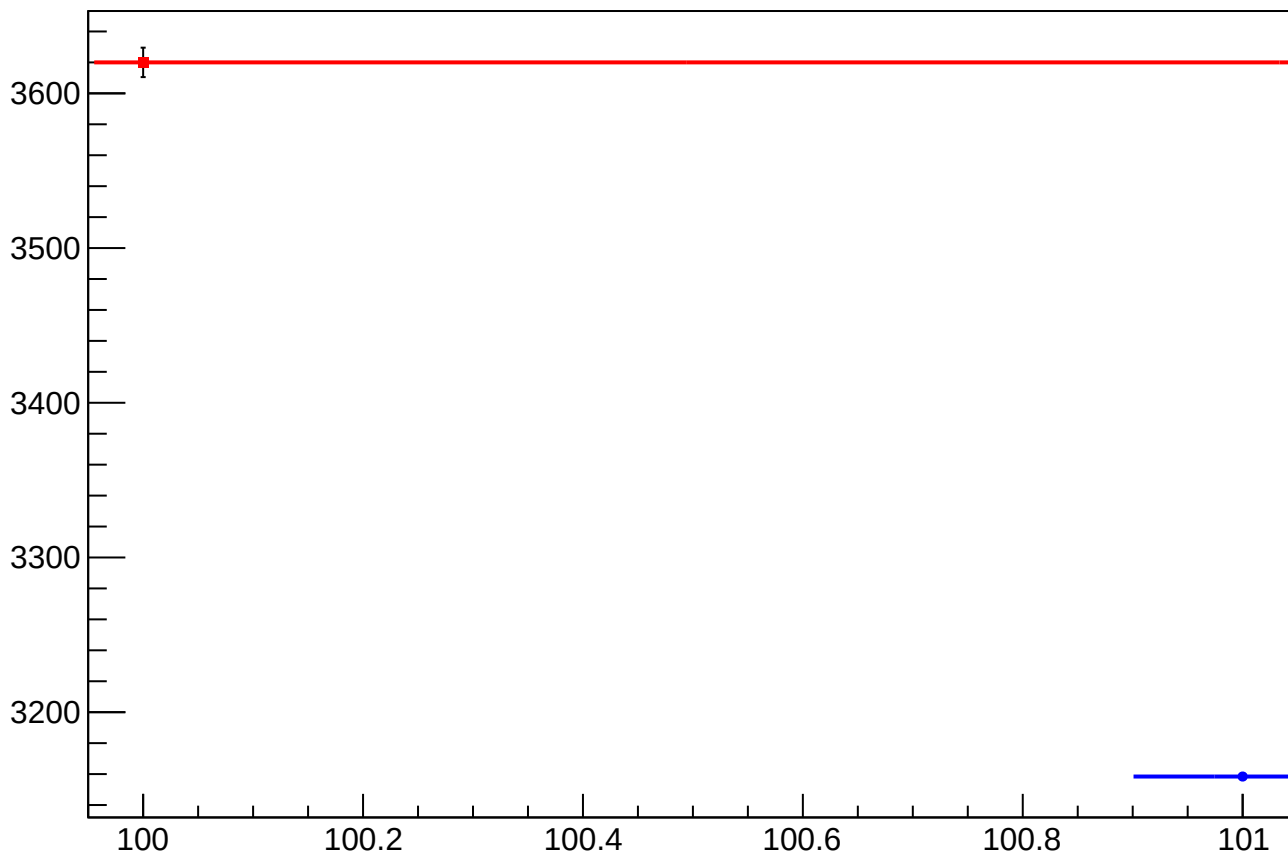
Right: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3158.415 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3620.015 $\pm$ 9.511  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

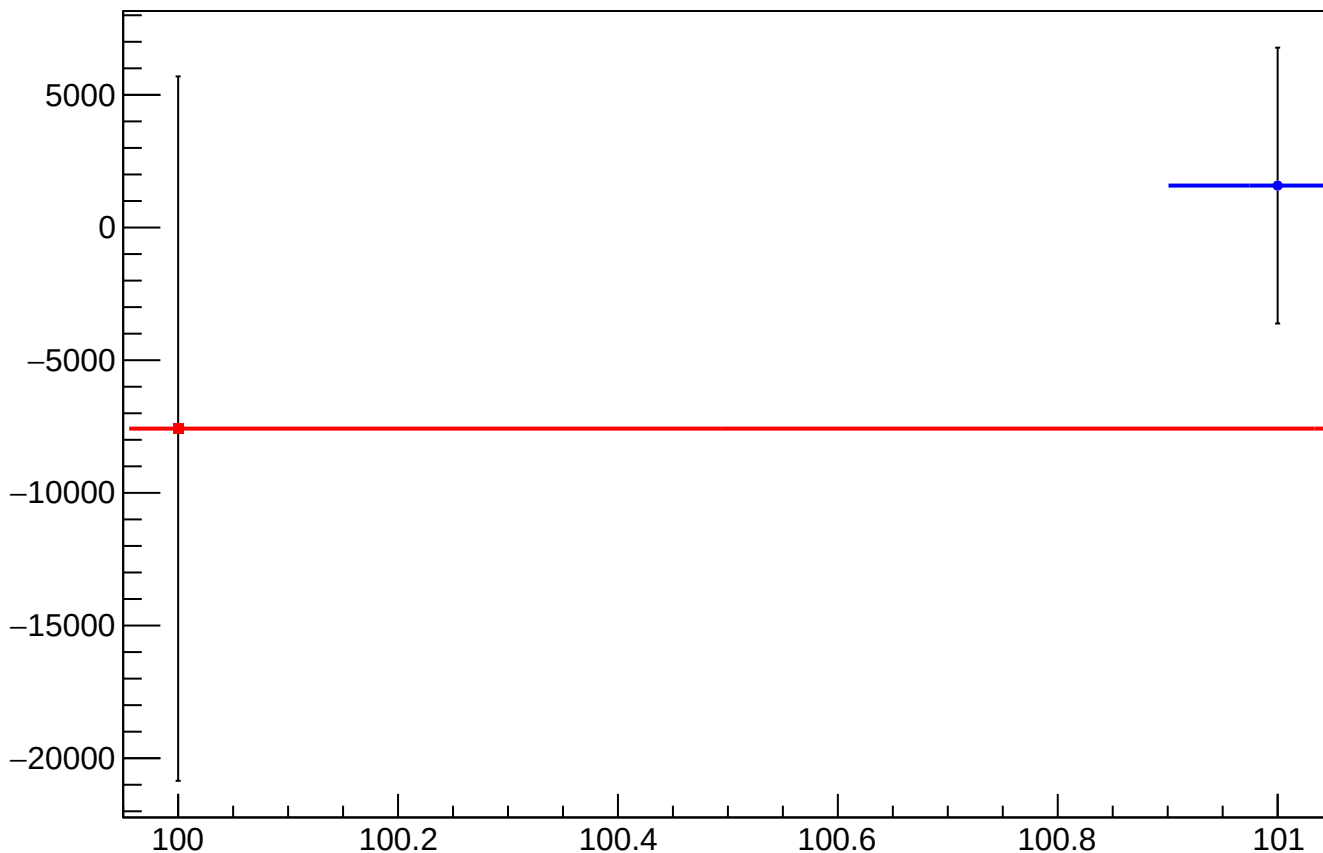
Right: 3194.216 $\pm$ 2.649  $\chi^2$ /NDF: 2172.9/1

In: 3158.415 $\pm$ 2.758  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3194.216 $\pm$ 2.649  $\chi^2$ /NDF: 2172.9/1

asym\_atl\_dd\_atr\_dd\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7578.169+/-13272.990  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

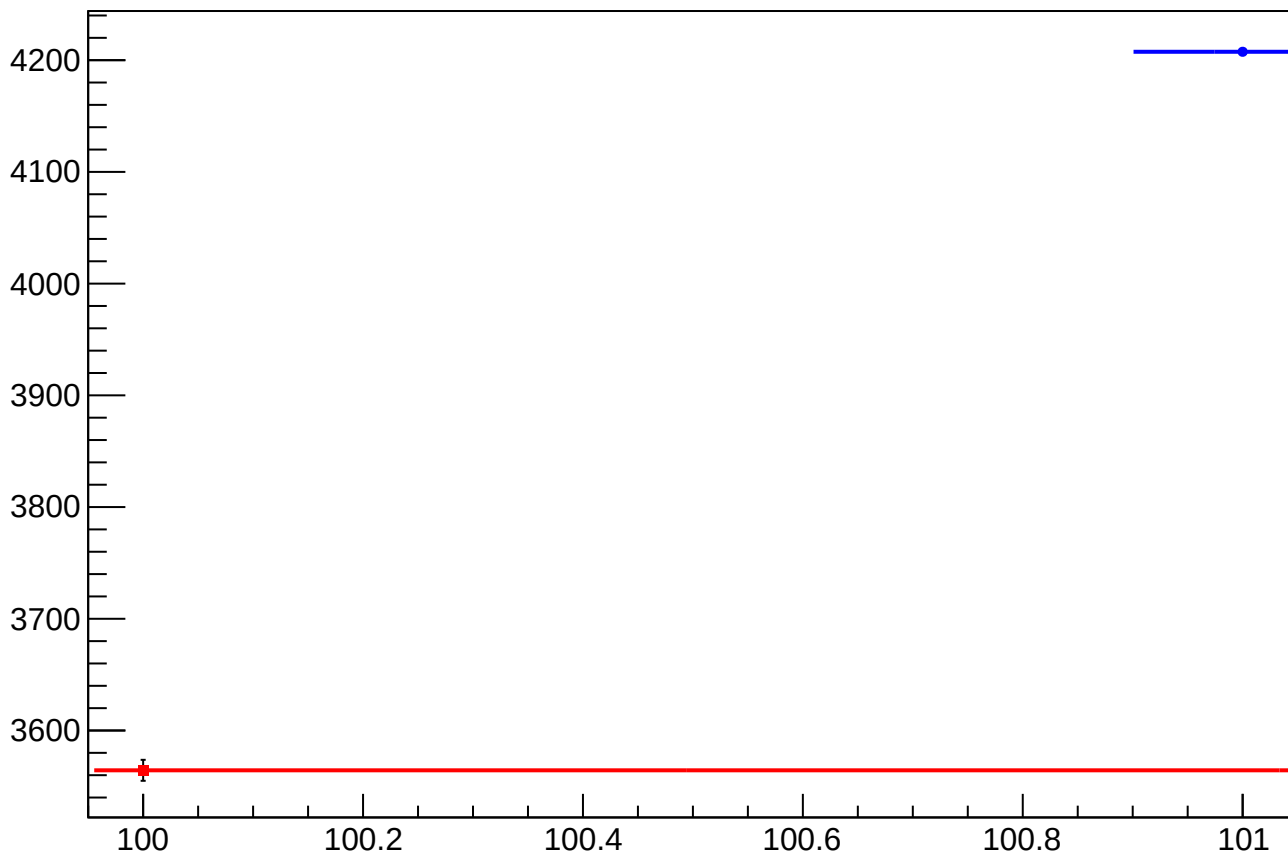
Right: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atl\_dd\_atr\_dd\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4207.526+/-3.675  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3564.365+/-9.385  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

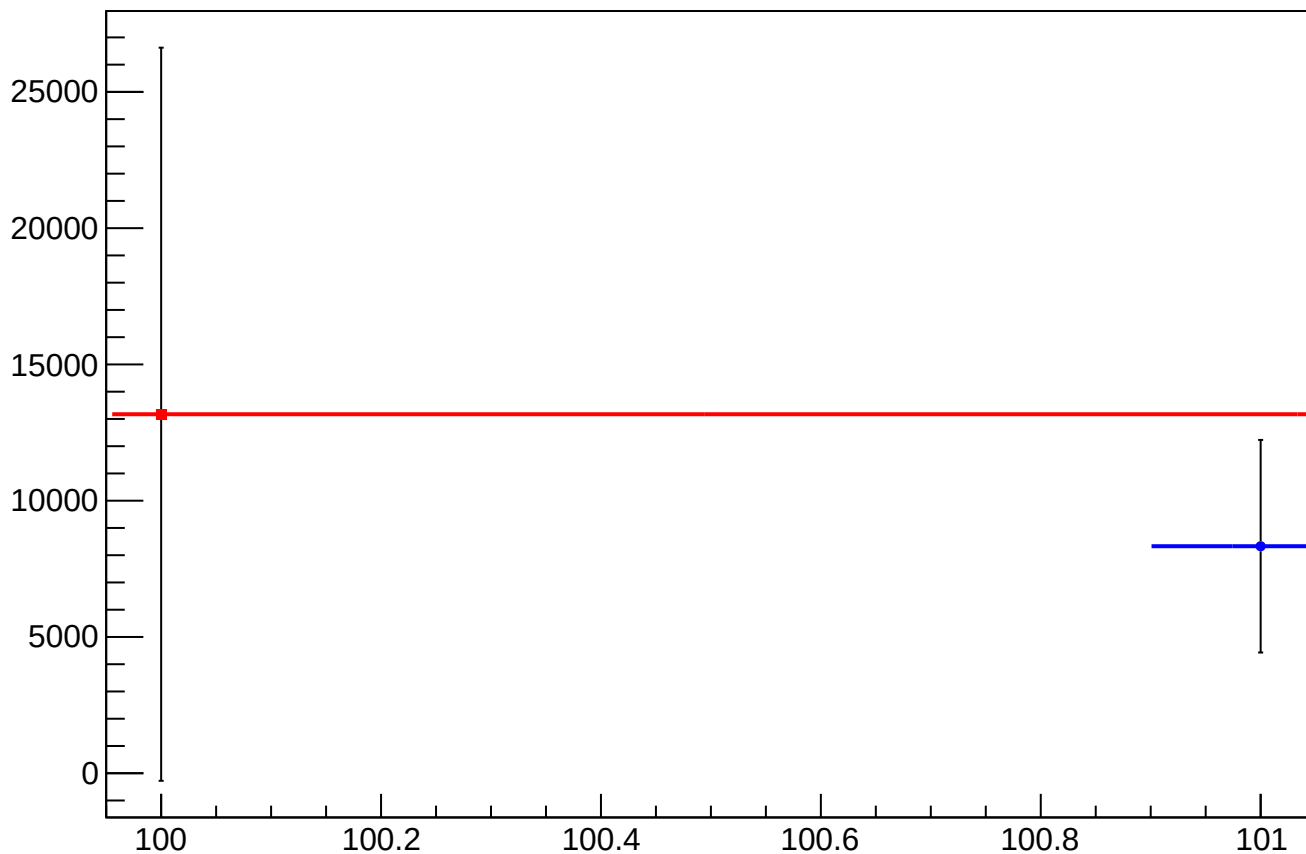
Right: 4122.021+/-3.422  $\chi^2$ /NDF: 4071.7/1

In: 4207.526+/-3.675  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 4122.021+/-3.422  $\chi^2$ /NDF: 4071.7/1

eigen\_cor\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 13172.682+/-13450.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

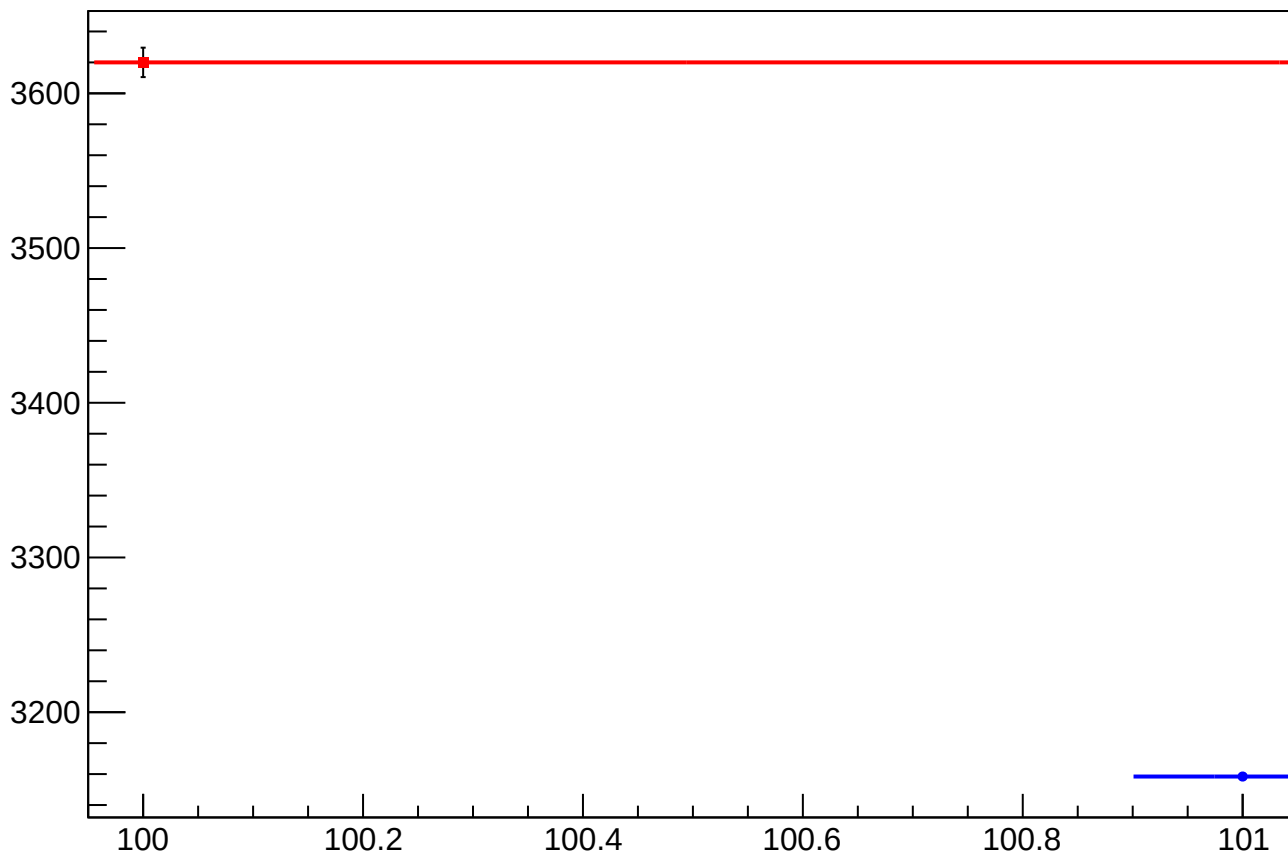
Right: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3158.415+/-2.758  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3620.015+/-9.511  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

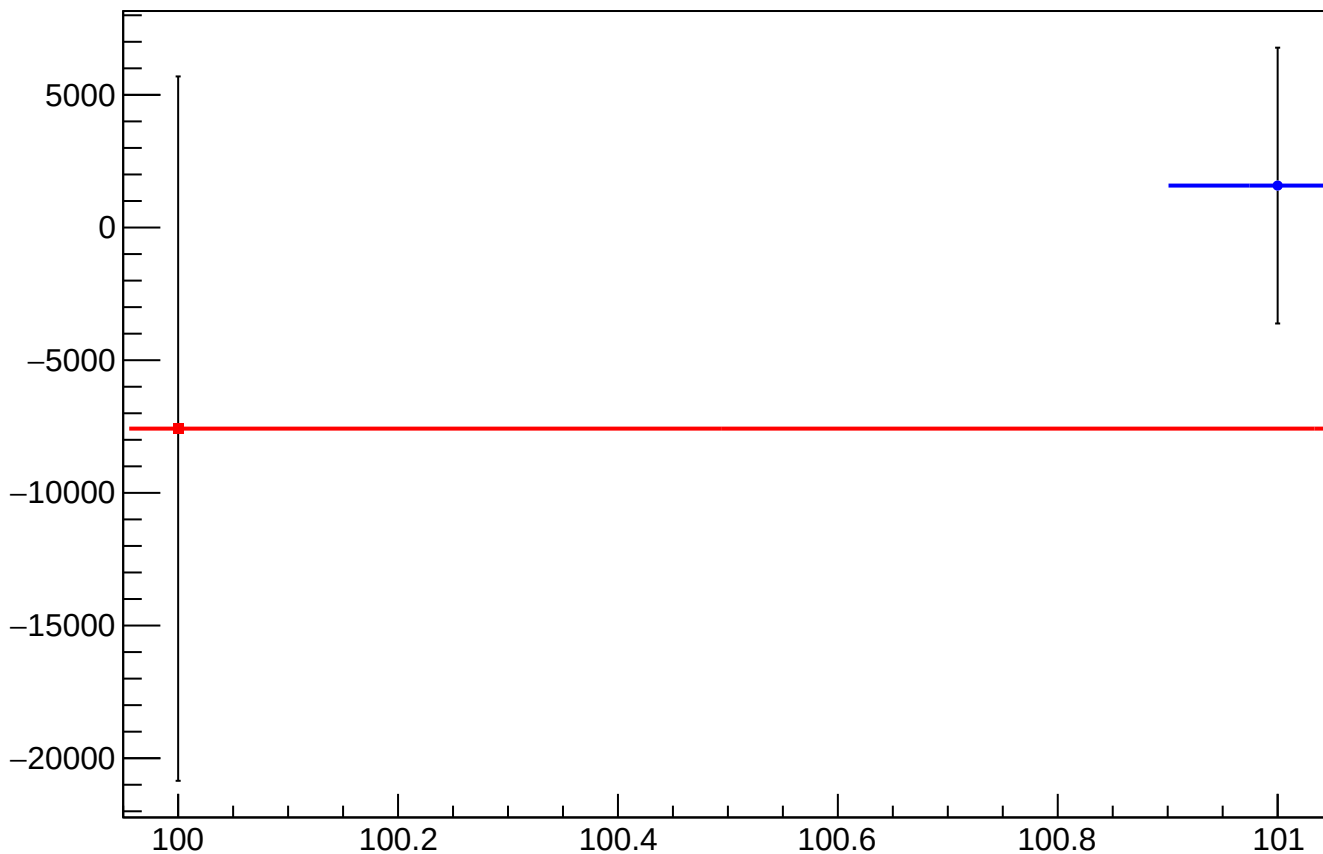
Right: 3194.216+/-2.649  $\chi^2/\text{NDF}$ : 2172.9/1

In: 3158.415+/-2.758  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3194.216+/-2.649  $\chi^2/\text{NDF}$ : 2172.9/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7578.169+/-13272.990  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

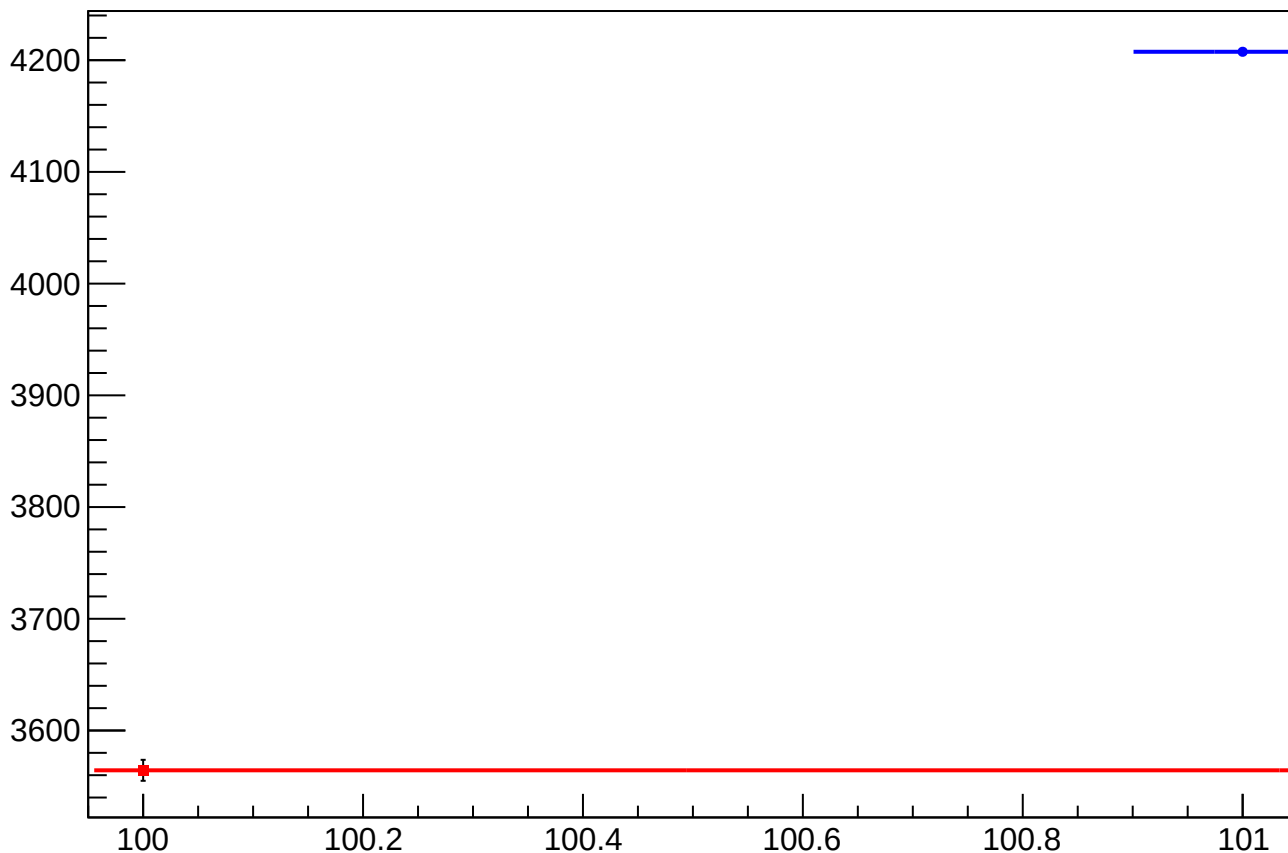
Right: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4207.526 $\pm$ 3.675  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3564.365 $\pm$ 9.385  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4122.021 $\pm$ 3.422  $\chi^2$ /NDF: 4071.7/1

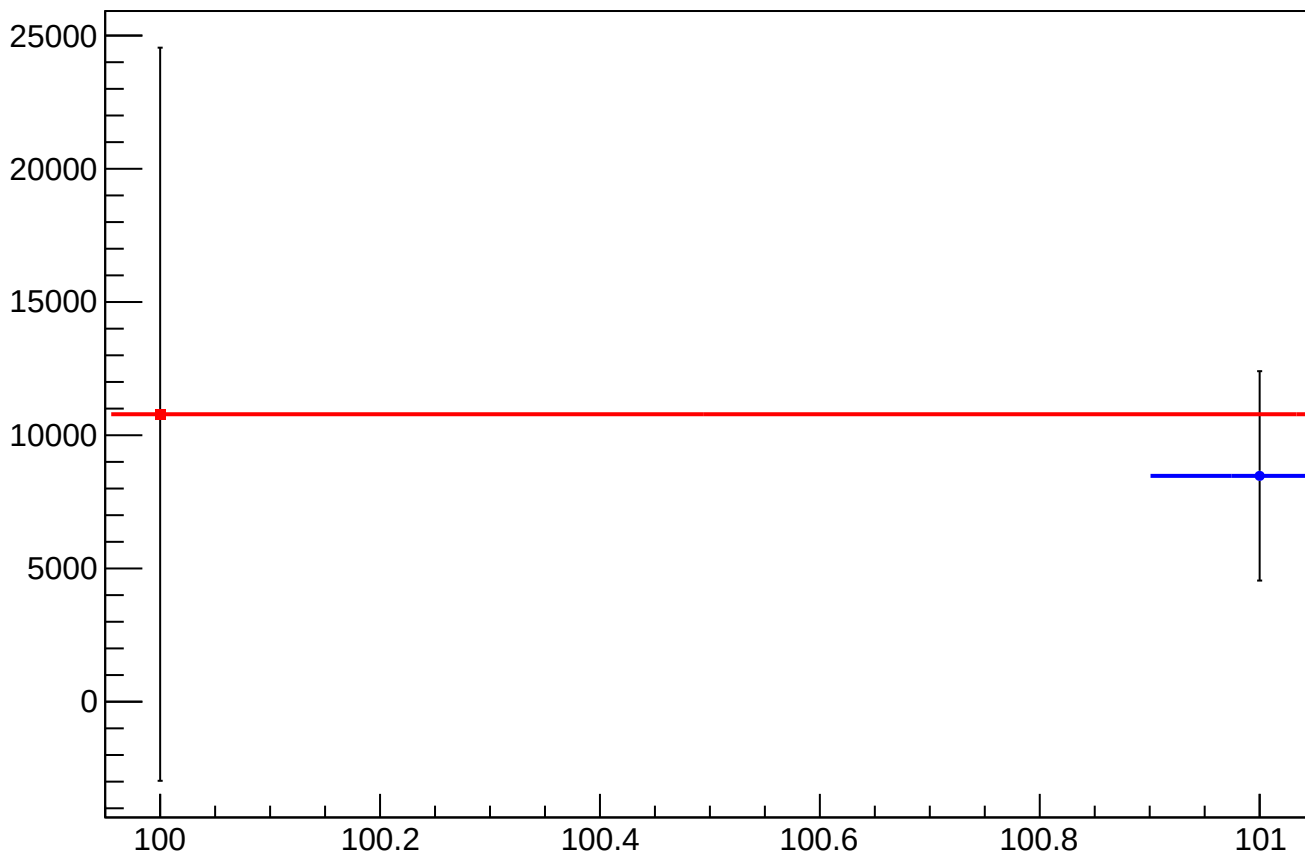
In: 4207.526 $\pm$ 3.675  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 4122.021 $\pm$ 3.422  $\chi^2$ /NDF: 4071.7/1



dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 8475.157+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10788.514+/-13756.935  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

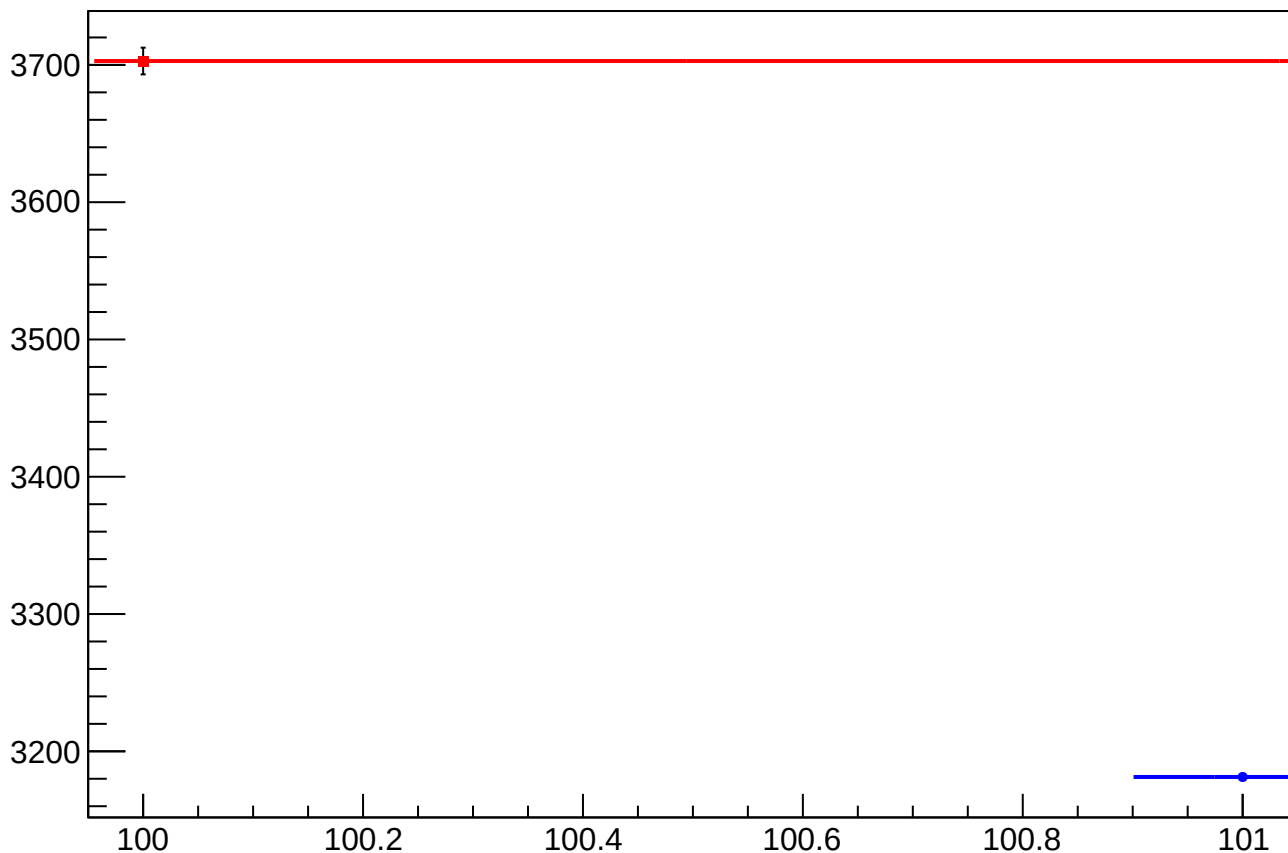
Right: 8649.639+/-3778.115  $\chi^2/\text{NDF}$ : 0.0/1

In: 8475.157+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8649.639+/-3778.115  $\chi^2/\text{NDF}$ : 0.0/1

dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3181.298+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3702.830+/-9.728  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

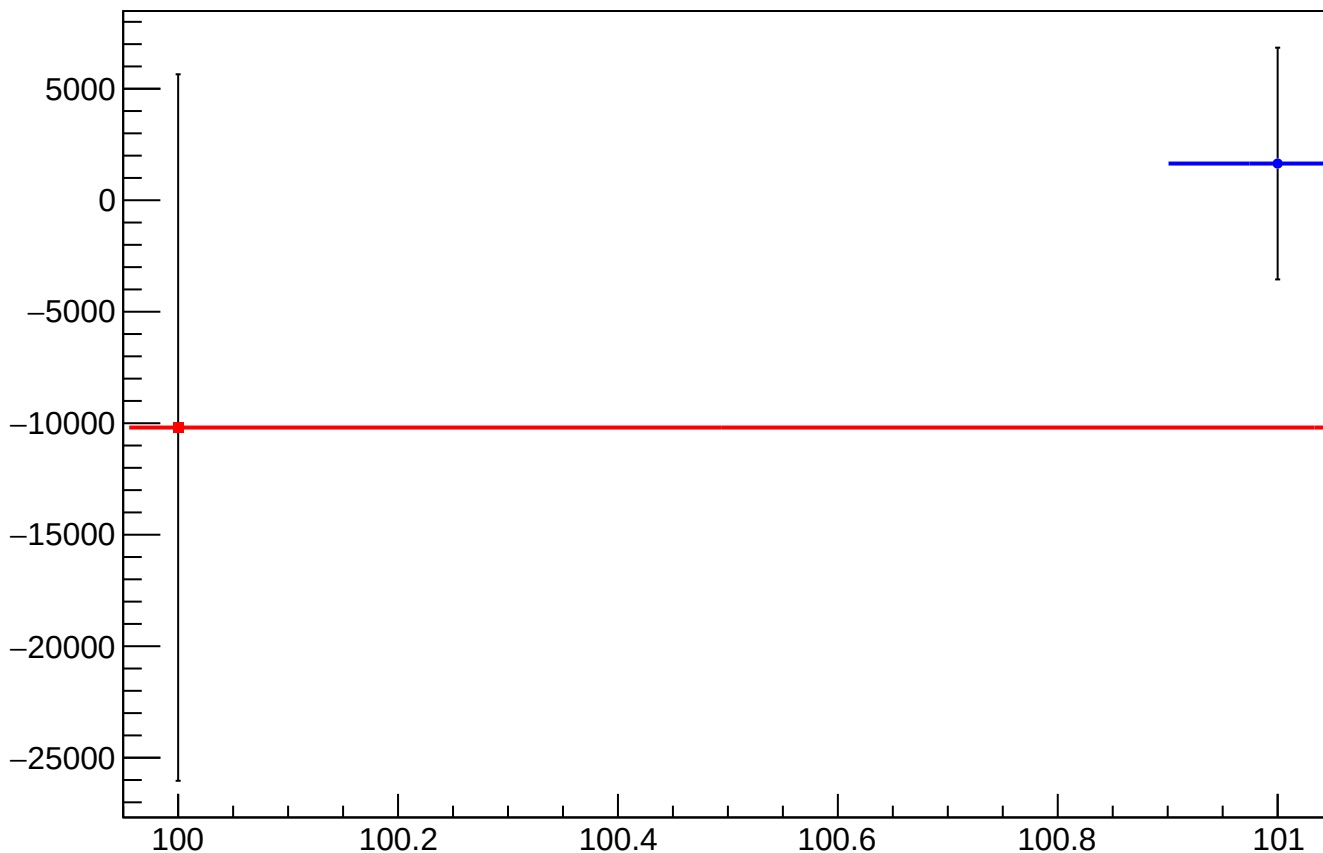
Right: 3220.634+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

In: 3181.298+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3220.634+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

asym\_atl\_dd\_atr\_dd\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1645.506+/-5196.241  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10193.400+/-15841.746  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

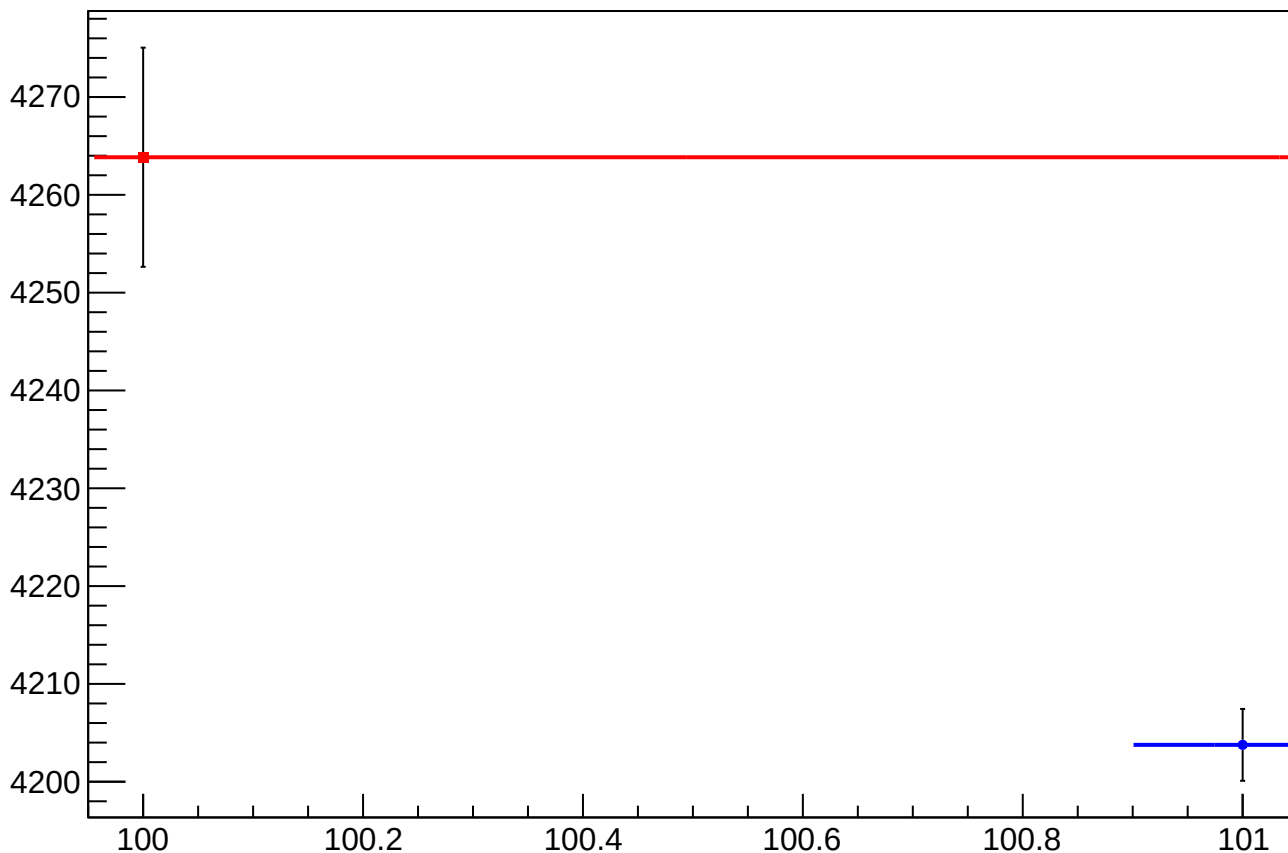
Right: 495.487+/-4937.416  $\chi^2/\text{NDF}$ : 0.5/1

In: 1645.506+/-5196.241  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 495.487+/-4937.416  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atl\_dd\_atr\_dd\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4203.768 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4263.844 $\pm$ 11.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

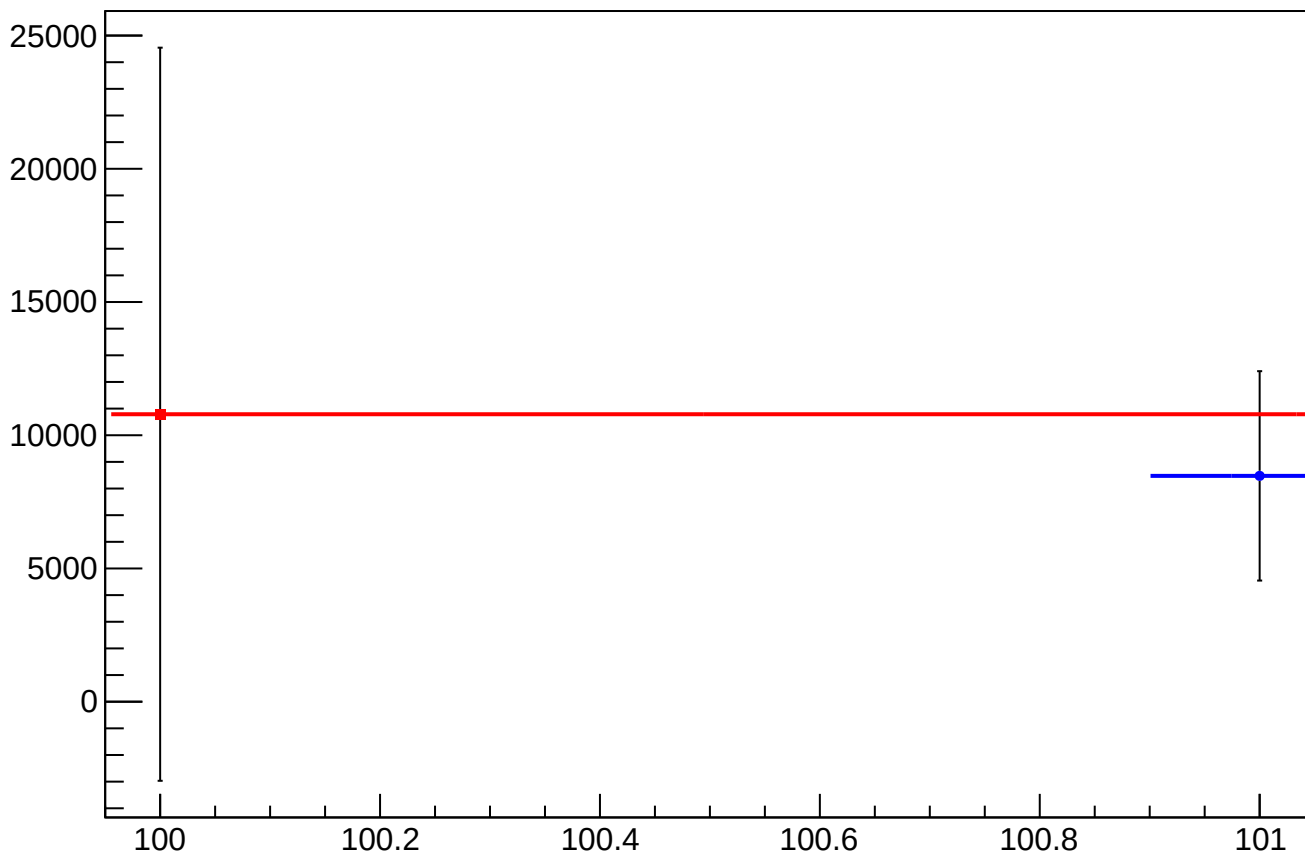
Right: 4209.604 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1

In: 4203.768 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4209.604 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1

eigen\_dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 8475.177+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10788.431+/-13756.932  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

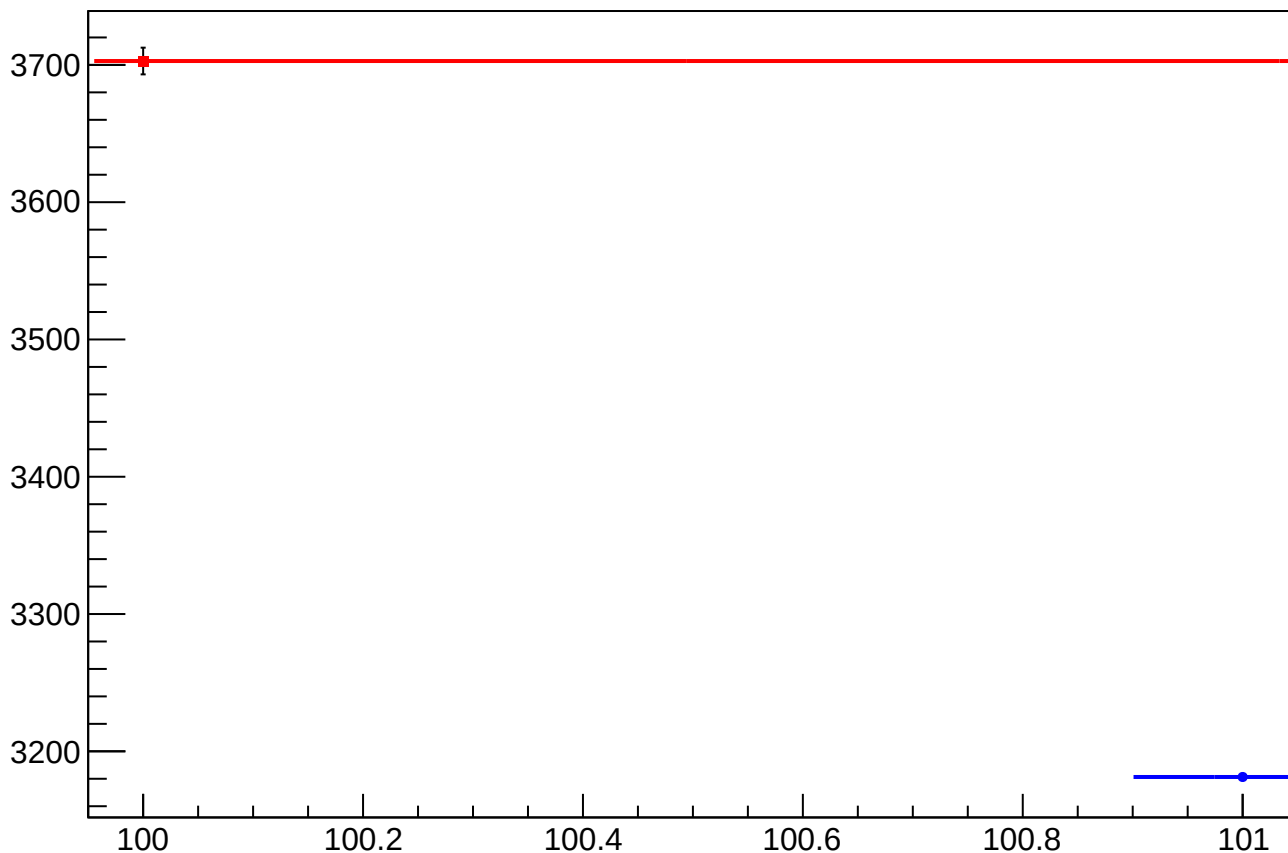
Right: 8649.651+/-3778.114  $\chi^2/\text{NDF}$ : 0.0/1

In: 8475.177+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8649.651+/-3778.114  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3181.297+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3702.830+/-9.728  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

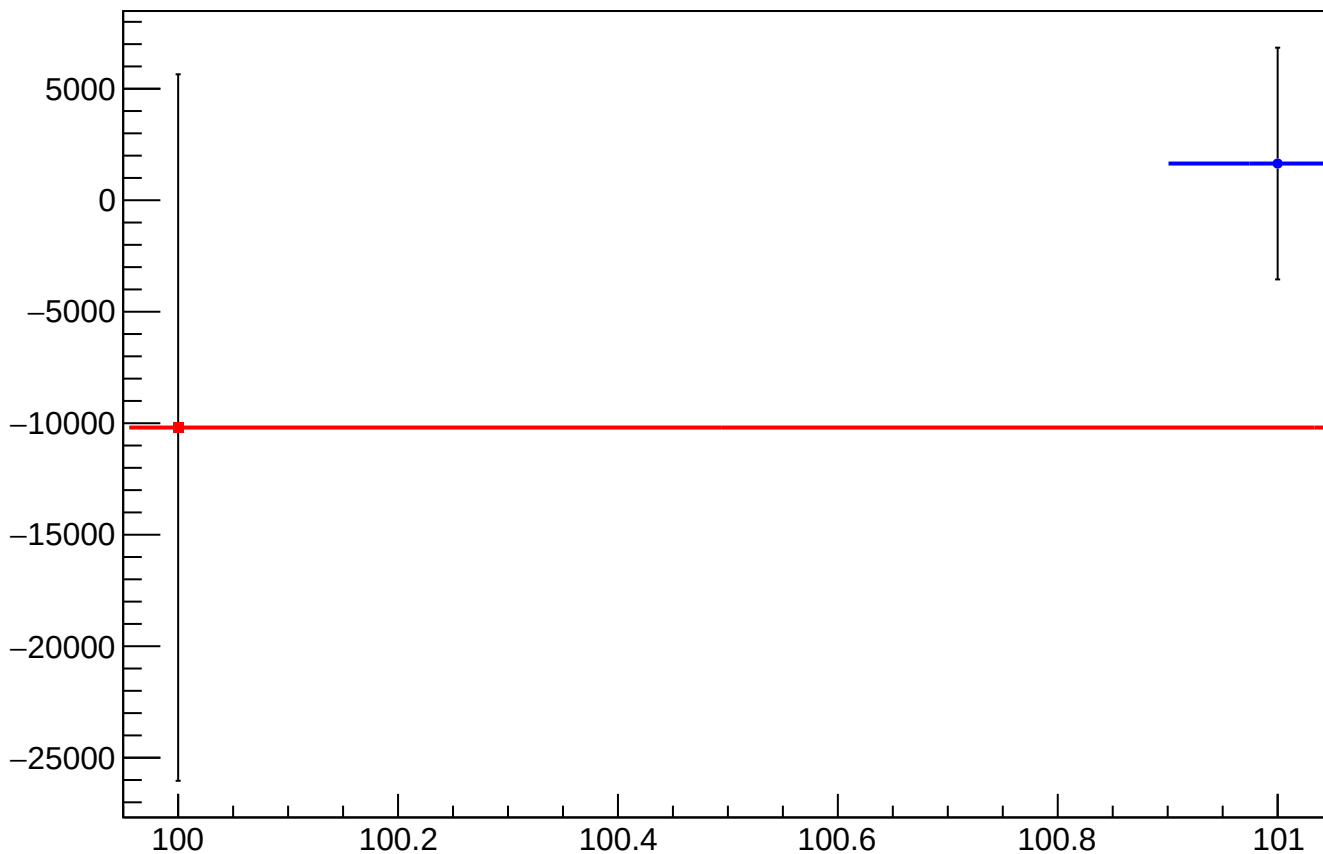
Right: 3220.633+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

In: 3181.297+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3220.633+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1645.520+/-5196.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10193.477+/-15841.719  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

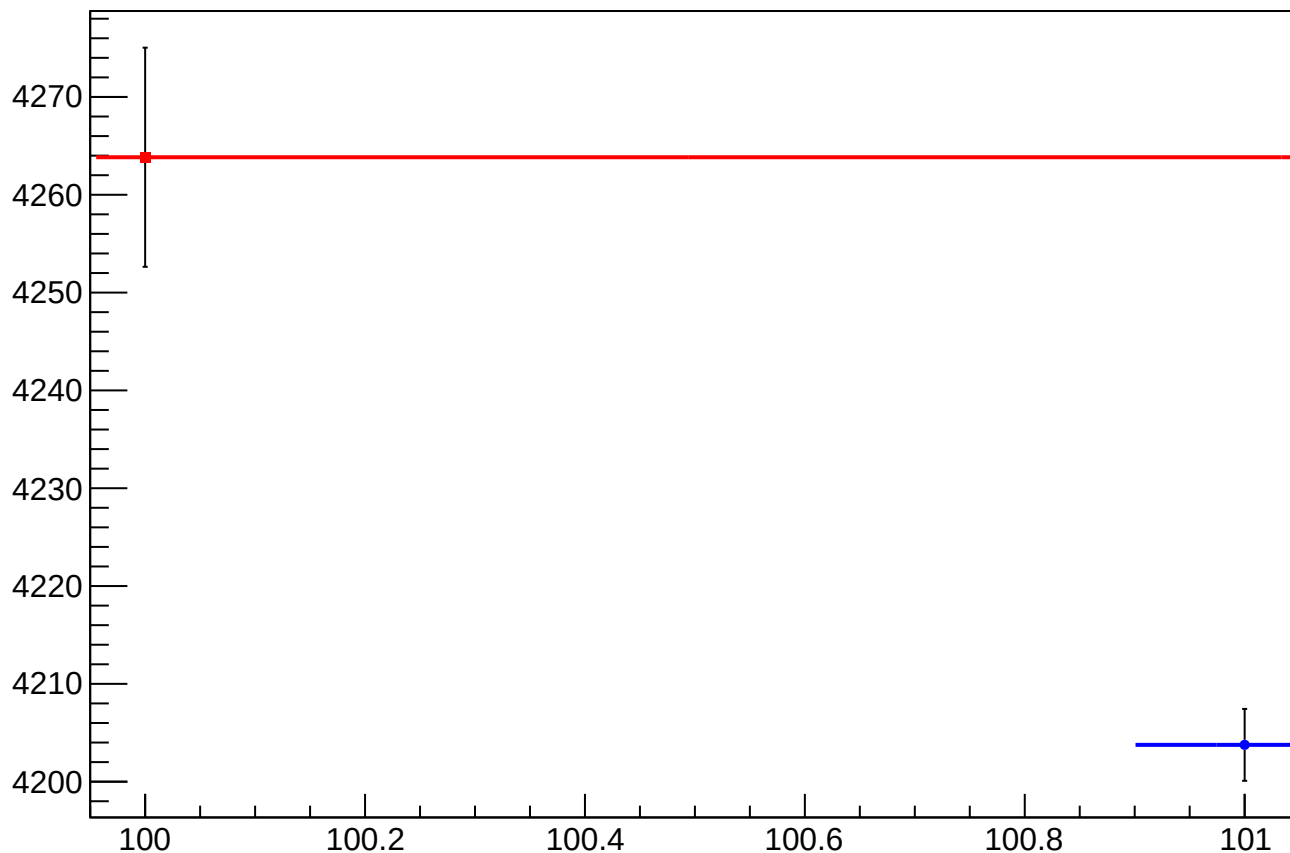
Right: 495.491+/-4937.411  $\chi^2/\text{NDF}$ : 0.5/1

In: 1645.520+/-5196.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 495.491+/-4937.411  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4203.764 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4263.837 $\pm$ 11.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4209.599 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1

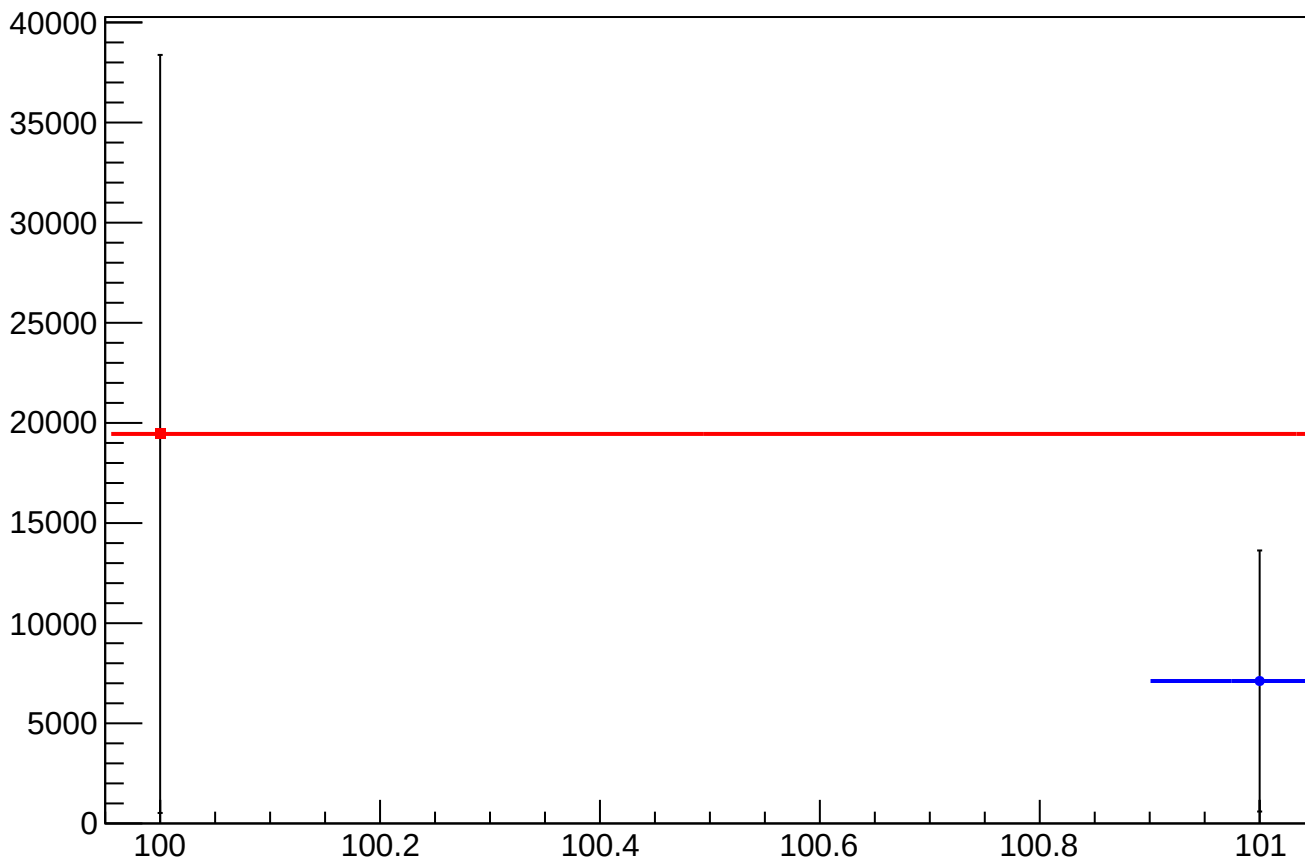
In: 4203.764 $\pm$ 3.674  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 4209.599 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1



asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 7113.572+/-6517.946  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19450.627+/-18926.075  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

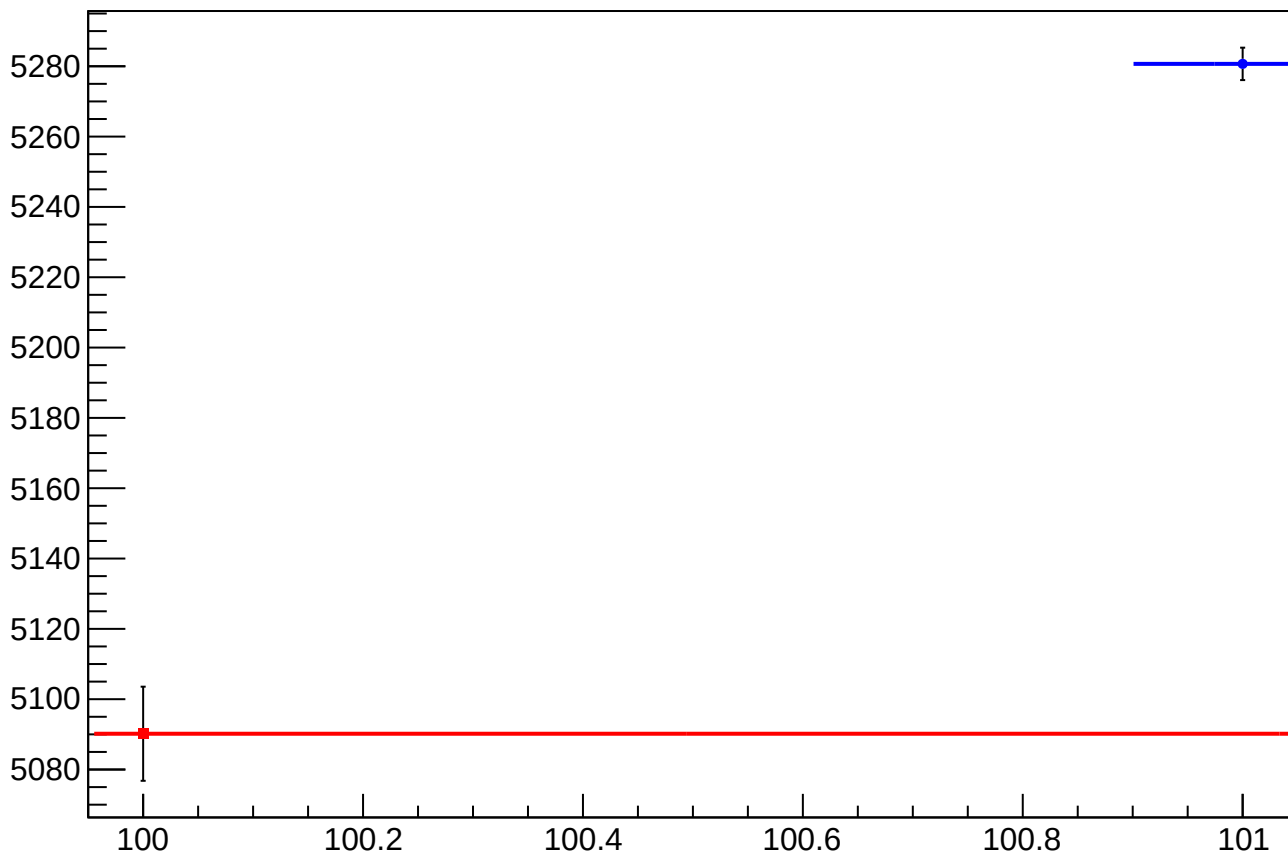
Right: 8421.656+/-6162.721  $\chi^2/\text{NDF}$ : 0.4/1

In: 7113.572+/-6517.946  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8421.656+/-6162.721  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 5280.679 $\pm$ 4.609  $\chi^2/NDF$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Right Out: 5090.176 $\pm$ 13.383  $\chi^2/NDF$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

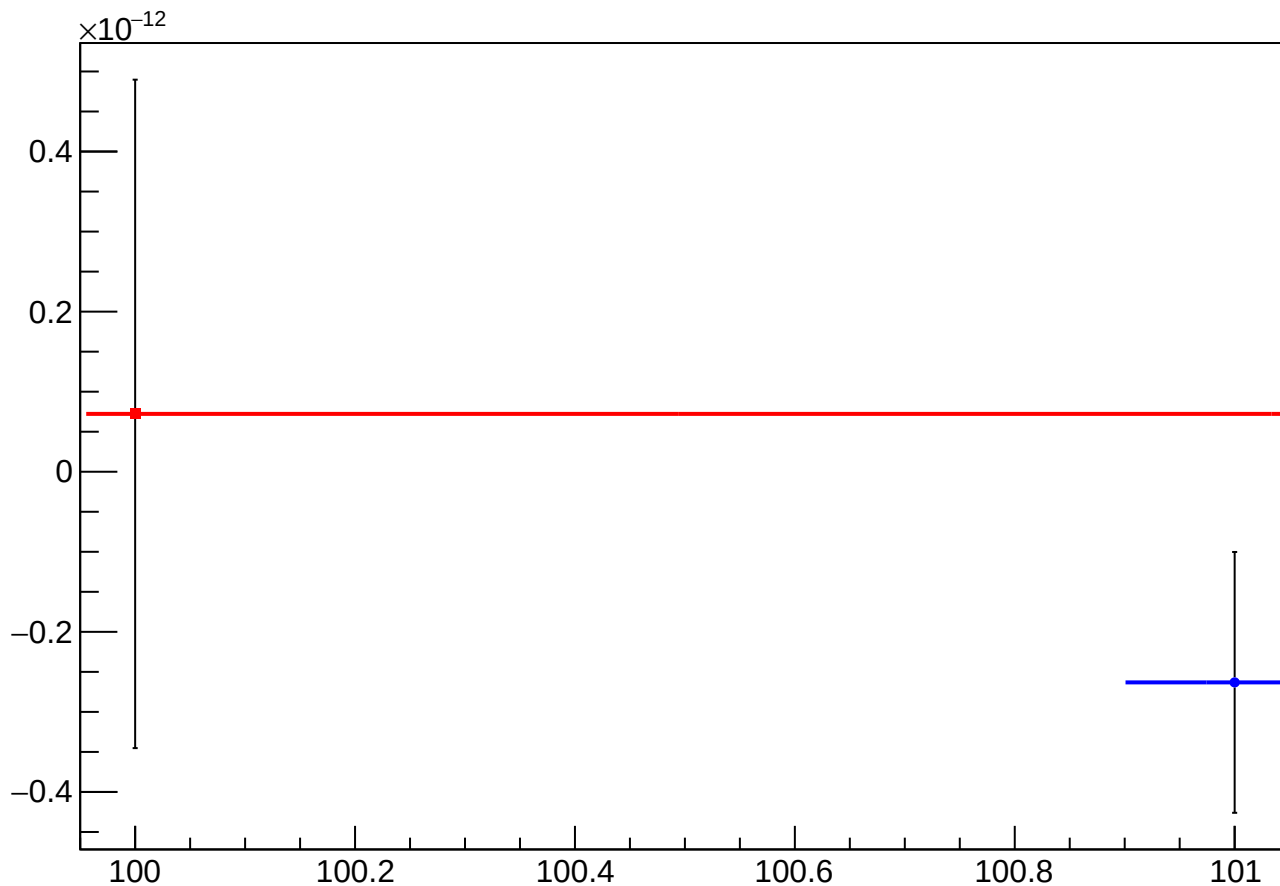
Right: 5260.480 $\pm$ 4.358  $\chi^2/NDF$ : 181.1/1

In: 5280.679 $\pm$ 4.609  $\chi^2/NDF$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

All: 5260.480 $\pm$ 4.358  $\chi^2/NDF$ : 181.1/1

asym\_atl\_dd\_atr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

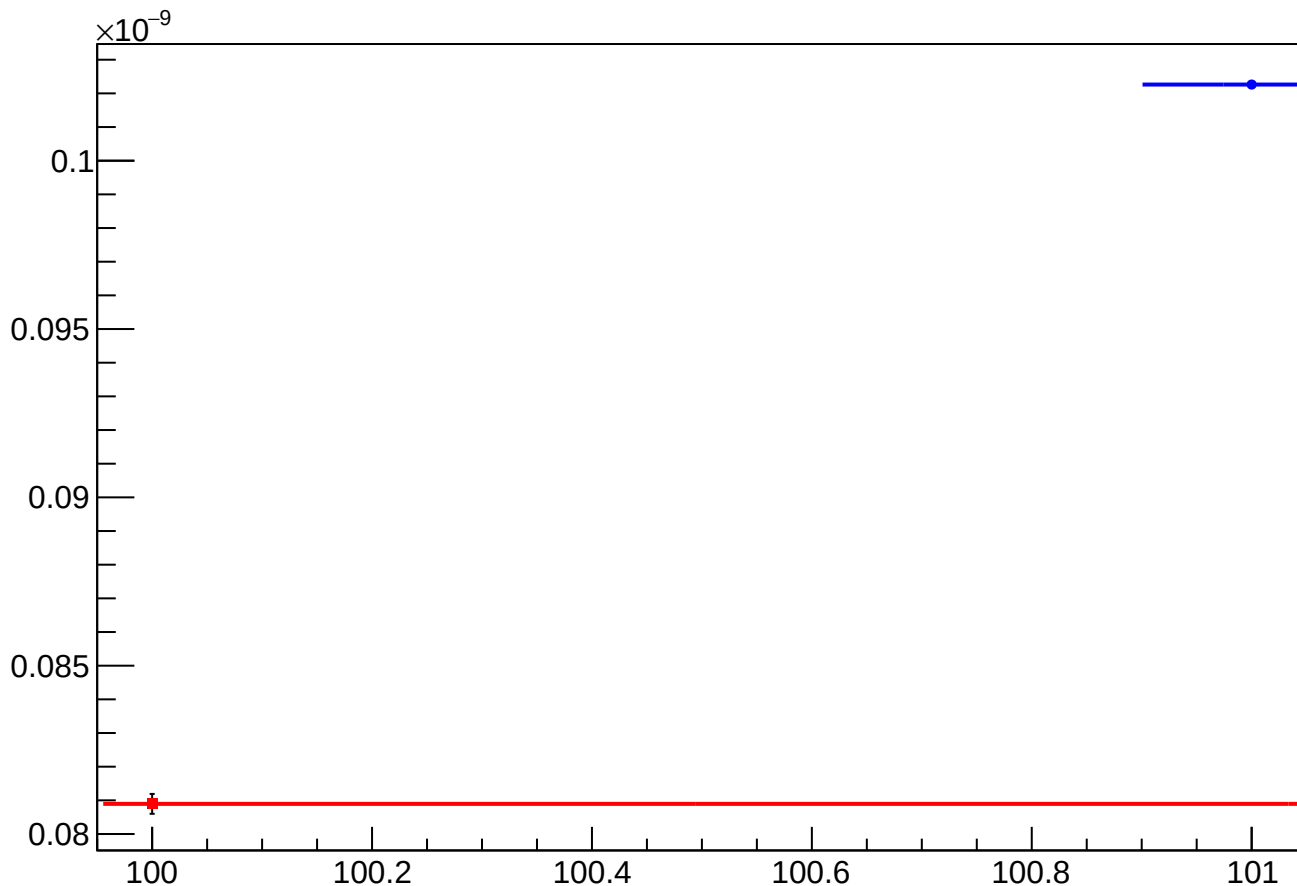
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_atl\_dd\_atr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

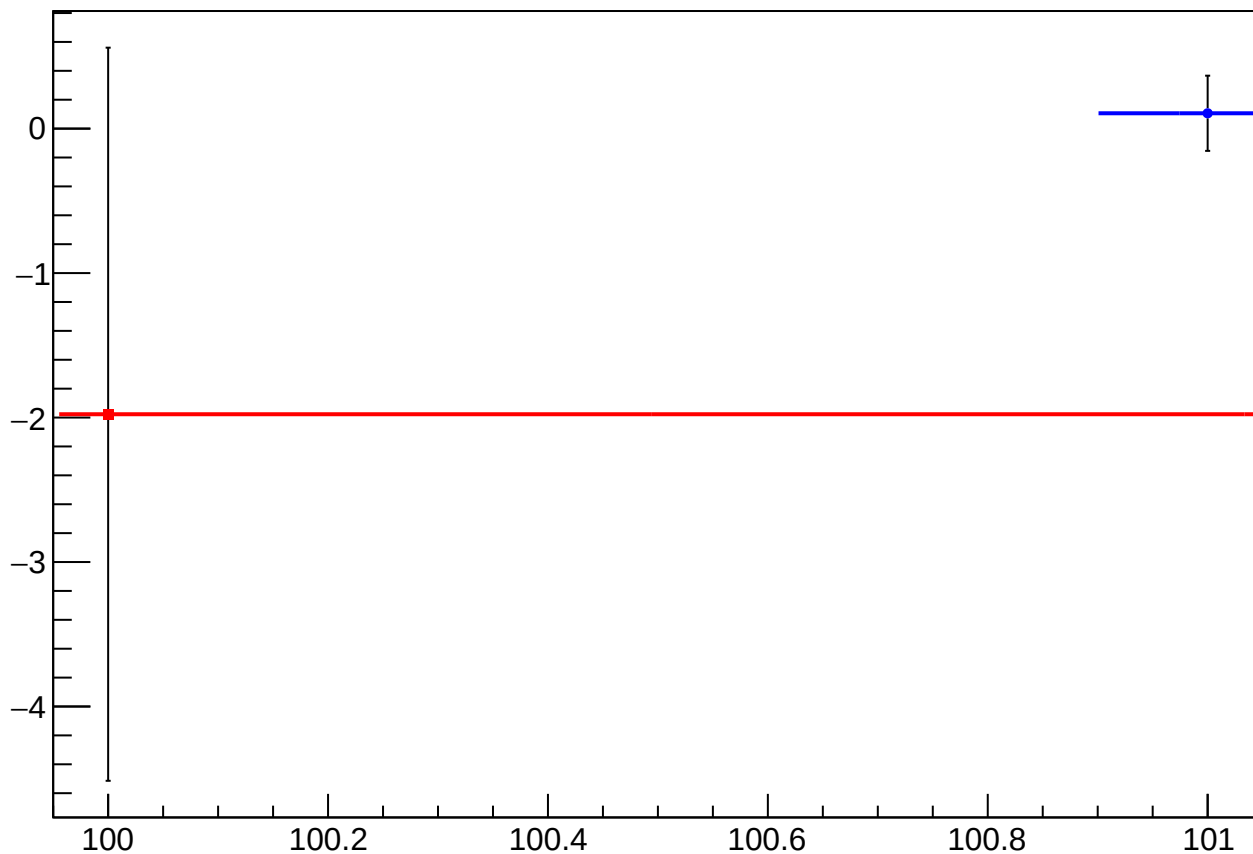
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4546.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4546.2/1

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977 $\pm$ 2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

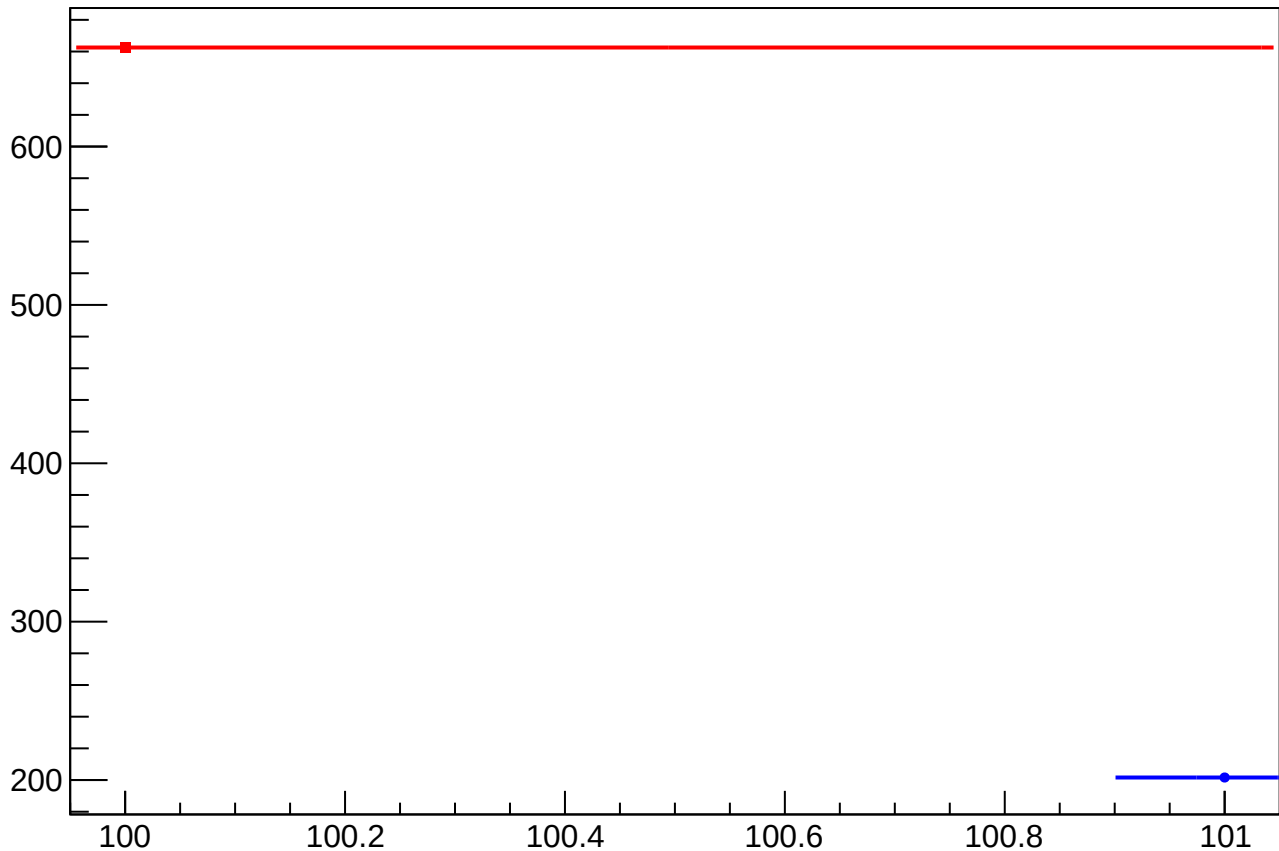
Right: 0.084 $\pm$ 0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106 $\pm$ 0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.084 $\pm$ 0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.597 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 662.534 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

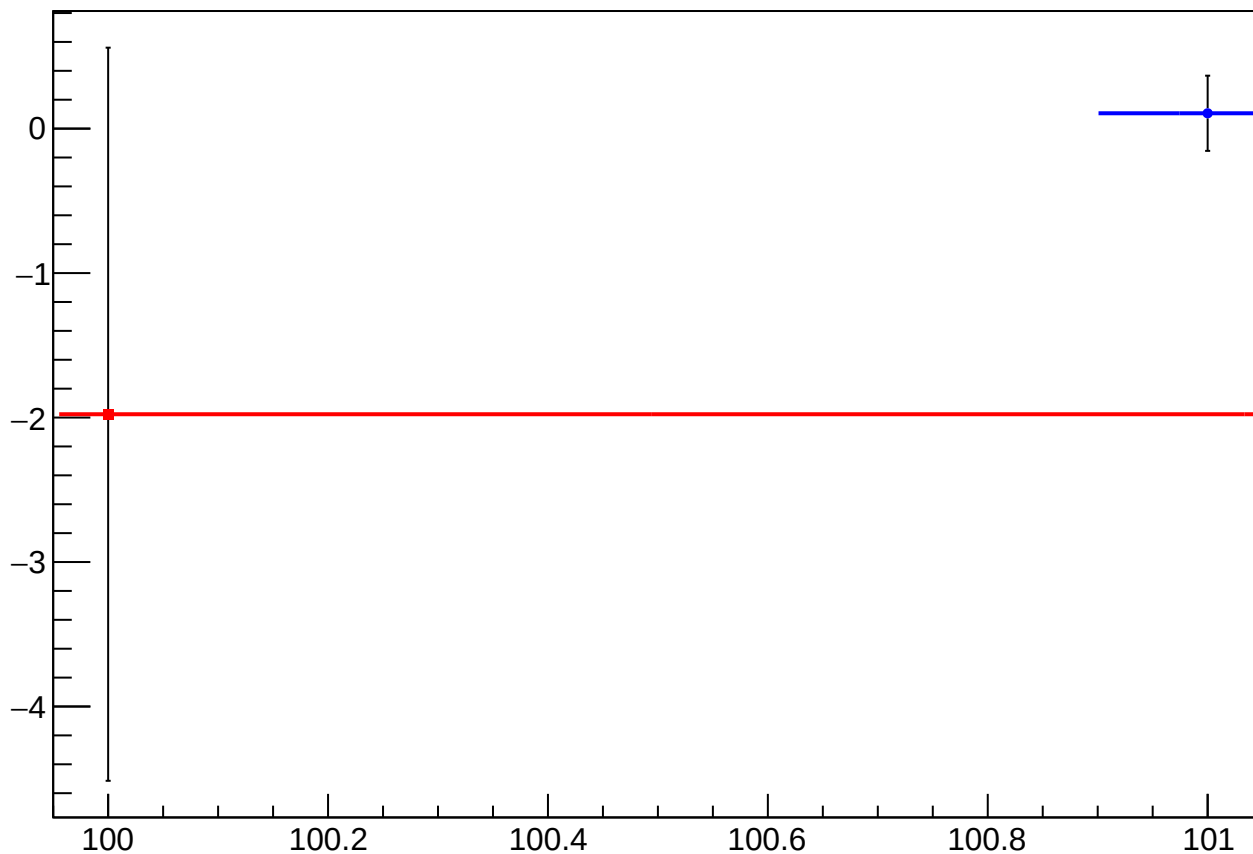
Right: 206.394 $\pm$ 0.183  $\chi^2$ /NDF: 65318.6/1

In: 201.597 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.394 $\pm$ 0.183  $\chi^2$ /NDF: 65318.6/1

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977+/-2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

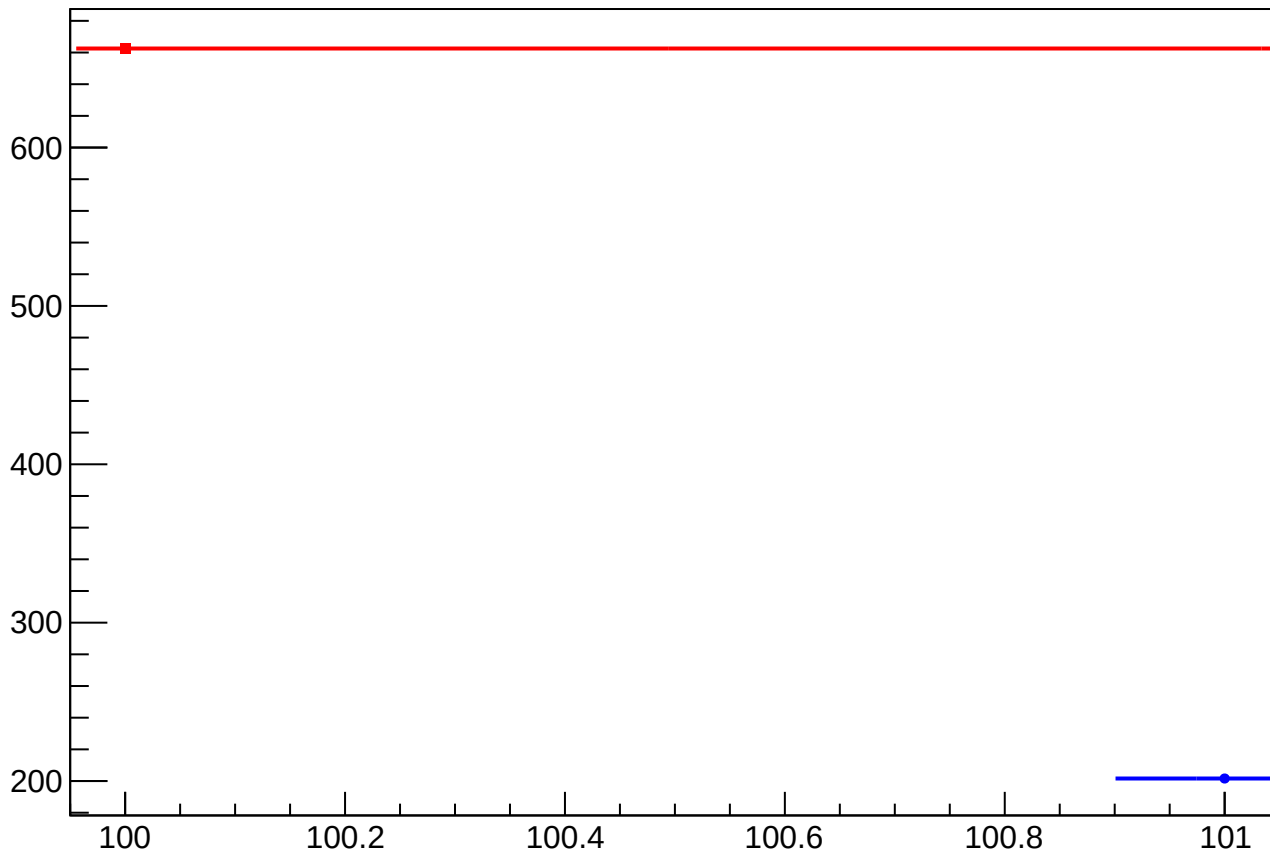
Right: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_atl\_dd\_atr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.597 +/- 0.184  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 662.534 +/- 1.794  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 206.394 +/- 0.183  $\chi^2/\text{NDF}$ : 65318.6/1

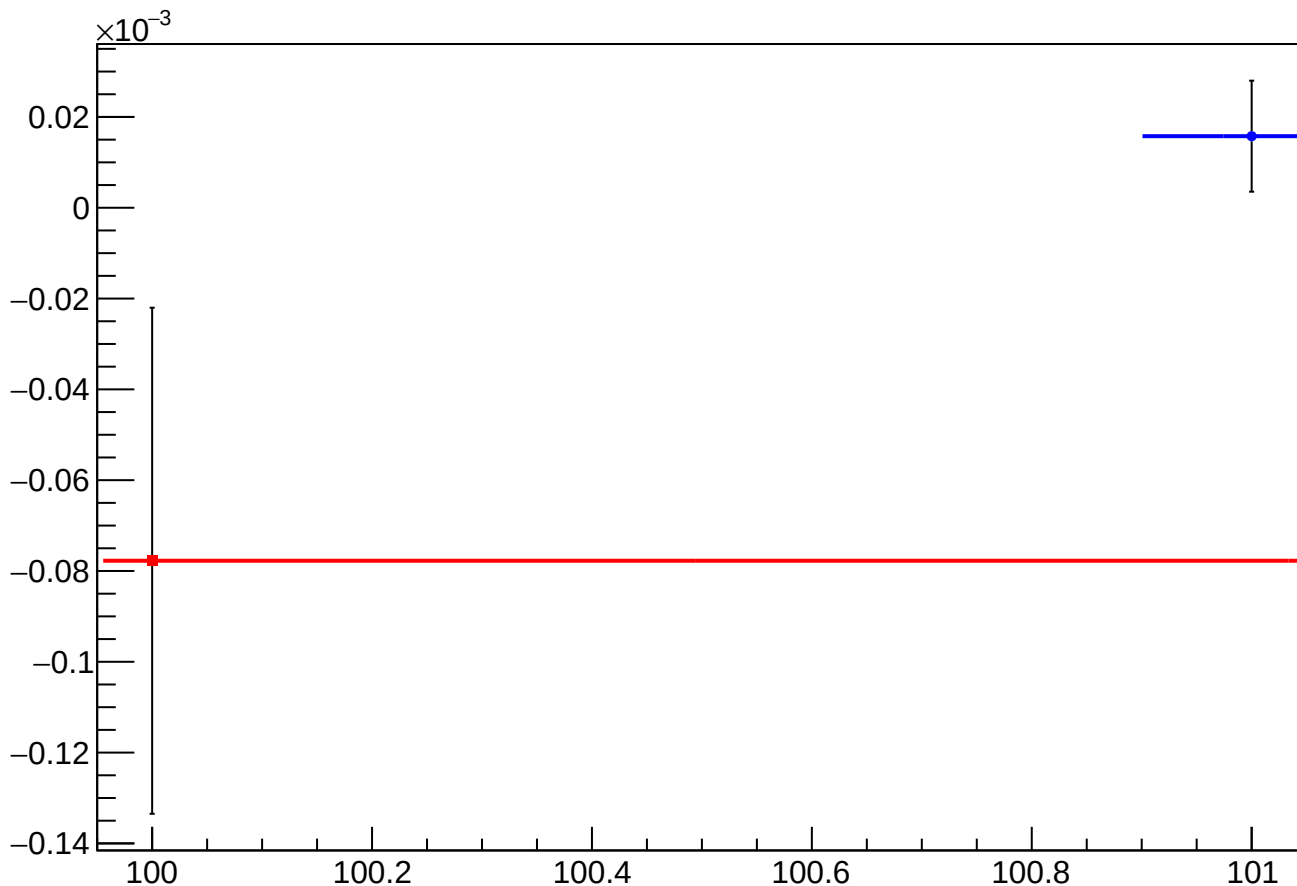
In: 201.597 +/- 0.184  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 206.394 +/- 0.183  $\chi^2/\text{NDF}$ : 65318.6/1



asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

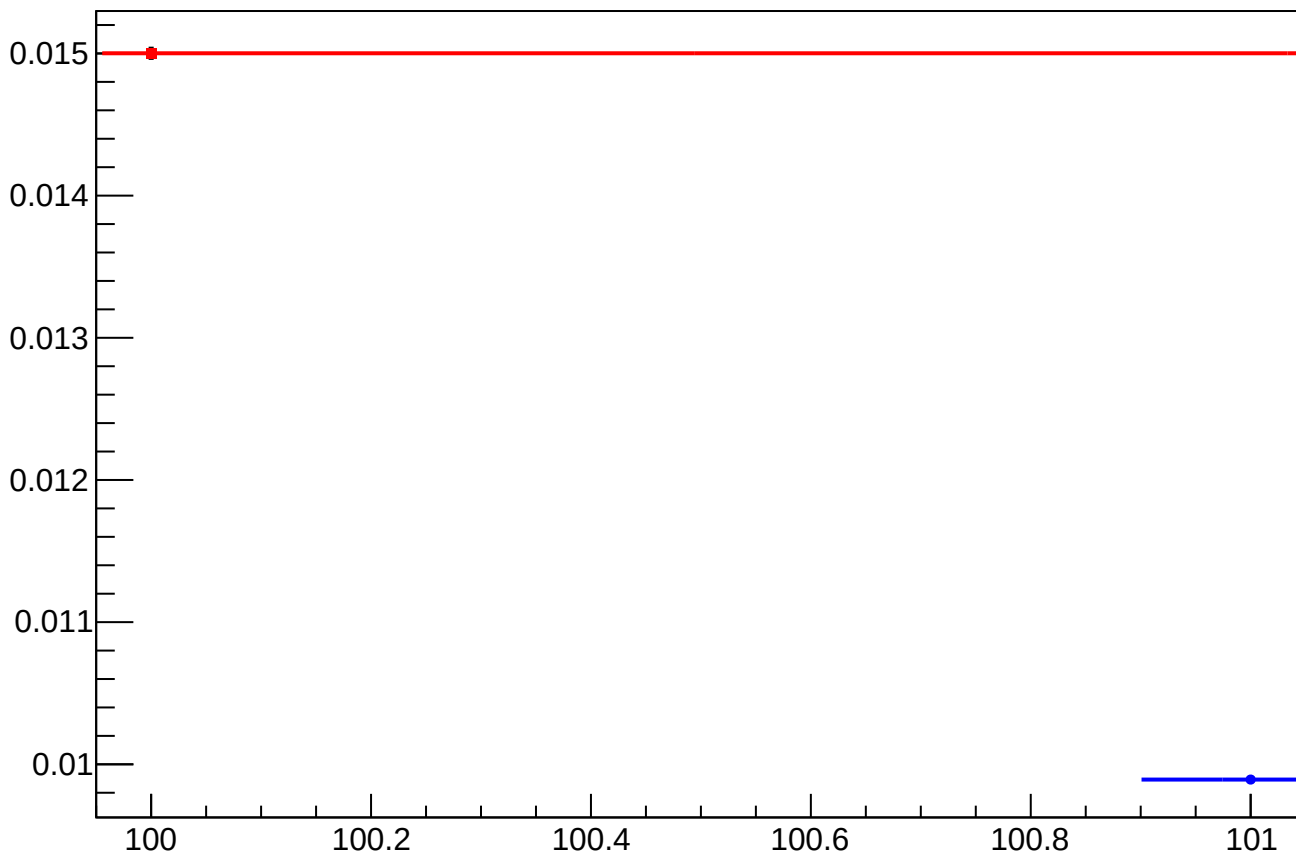
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

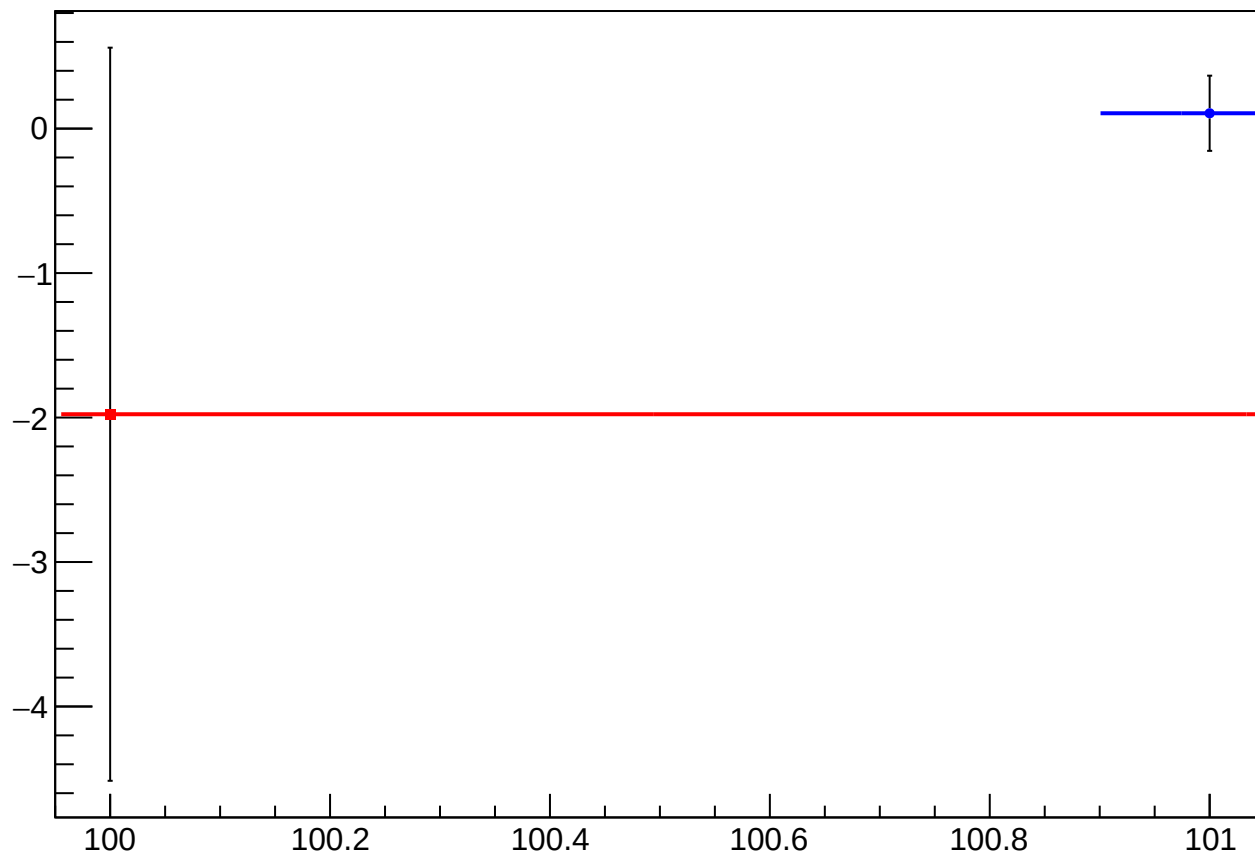
Right: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 16032.0/1

In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 16032.0/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977+/-2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

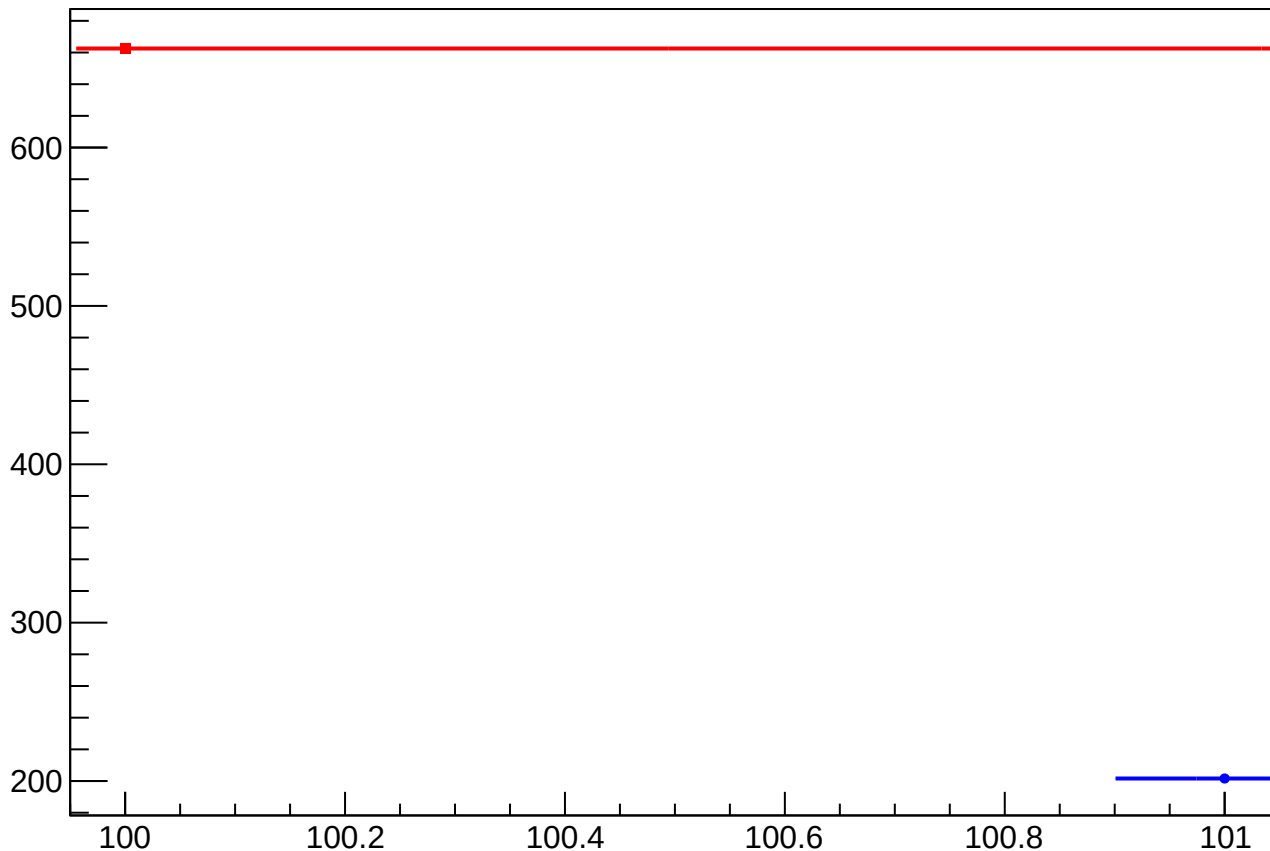
Right: 0.085+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.085+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 662.531 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

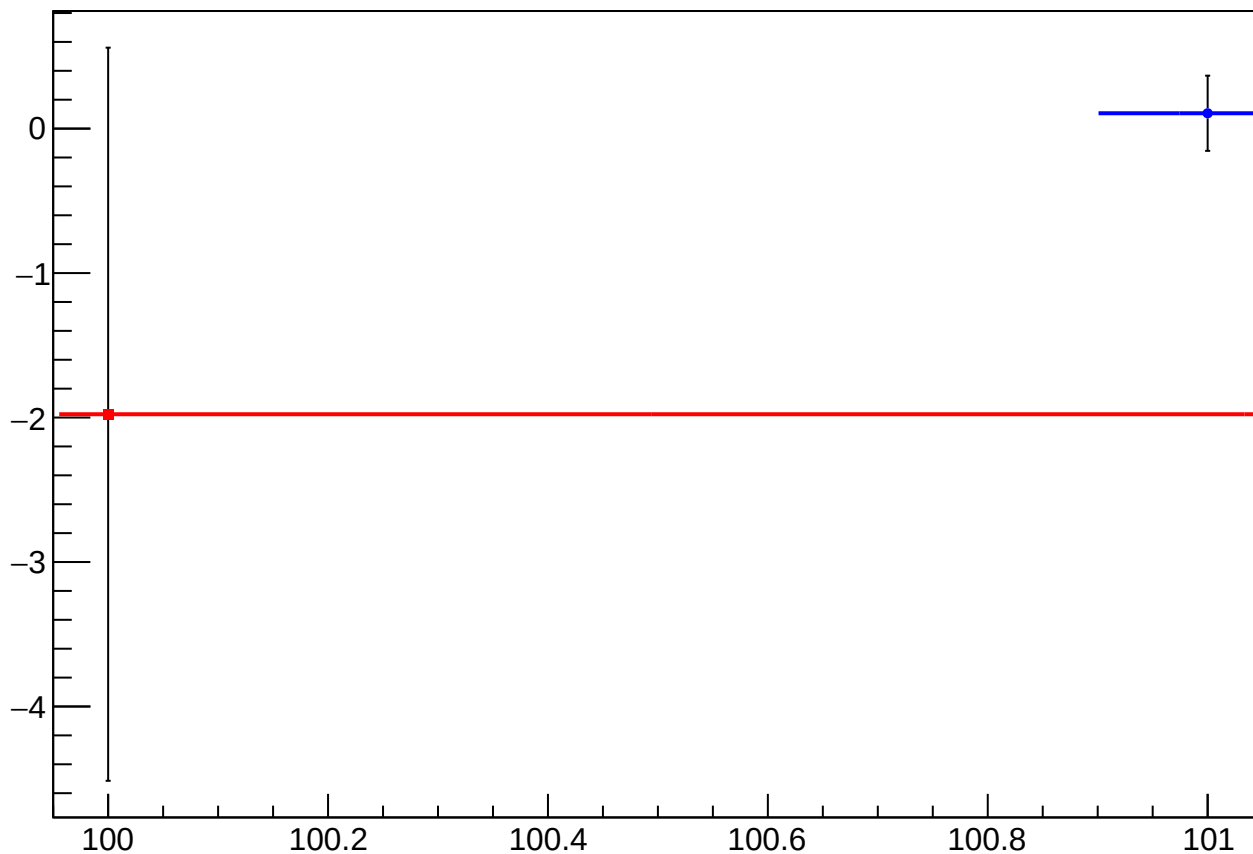
Right: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.260  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.977 $\pm$ 2.537  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

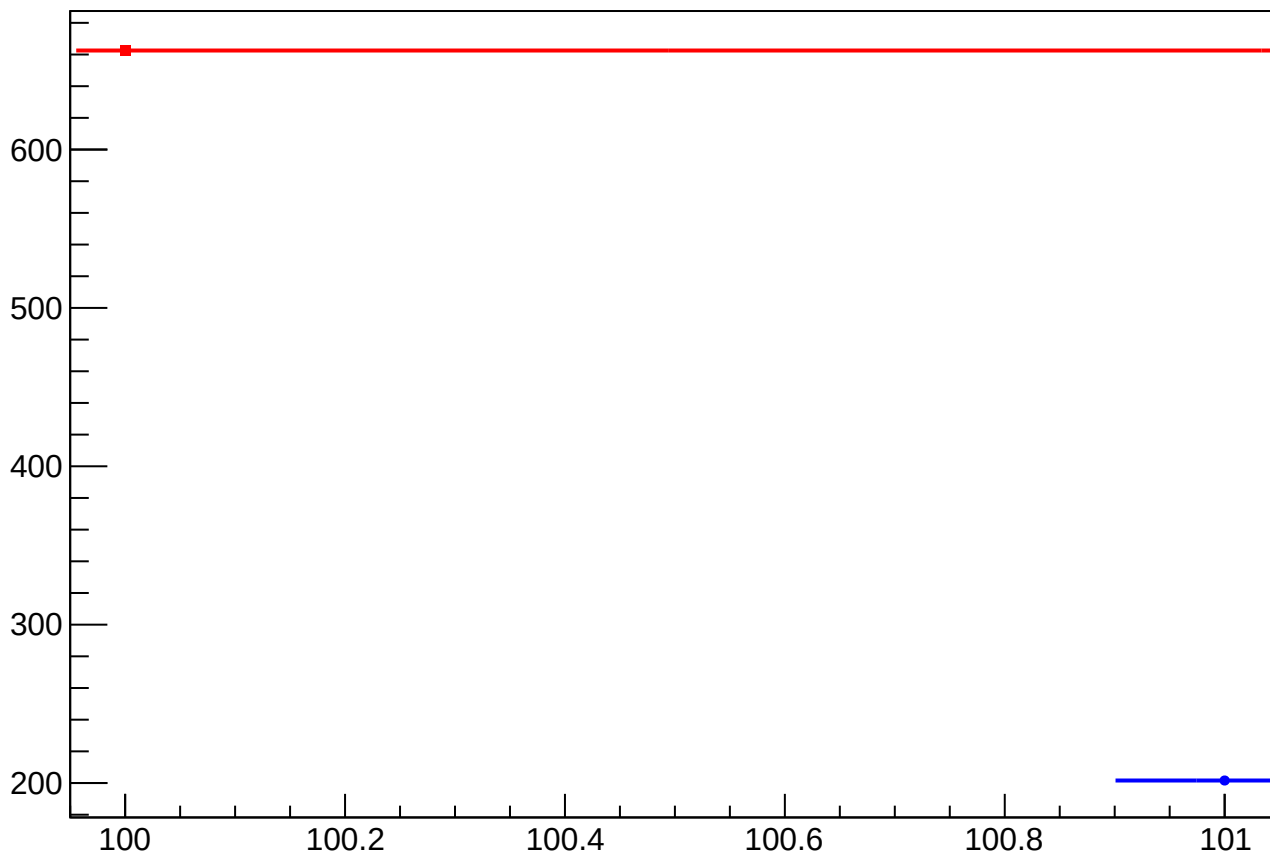
Right: 0.085 $\pm$ 0.259  $\chi^2$ /NDF: 0.7/1

In: 0.106 $\pm$ 0.260  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.085 $\pm$ 0.259  $\chi^2$ /NDF: 0.7/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 662.531 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

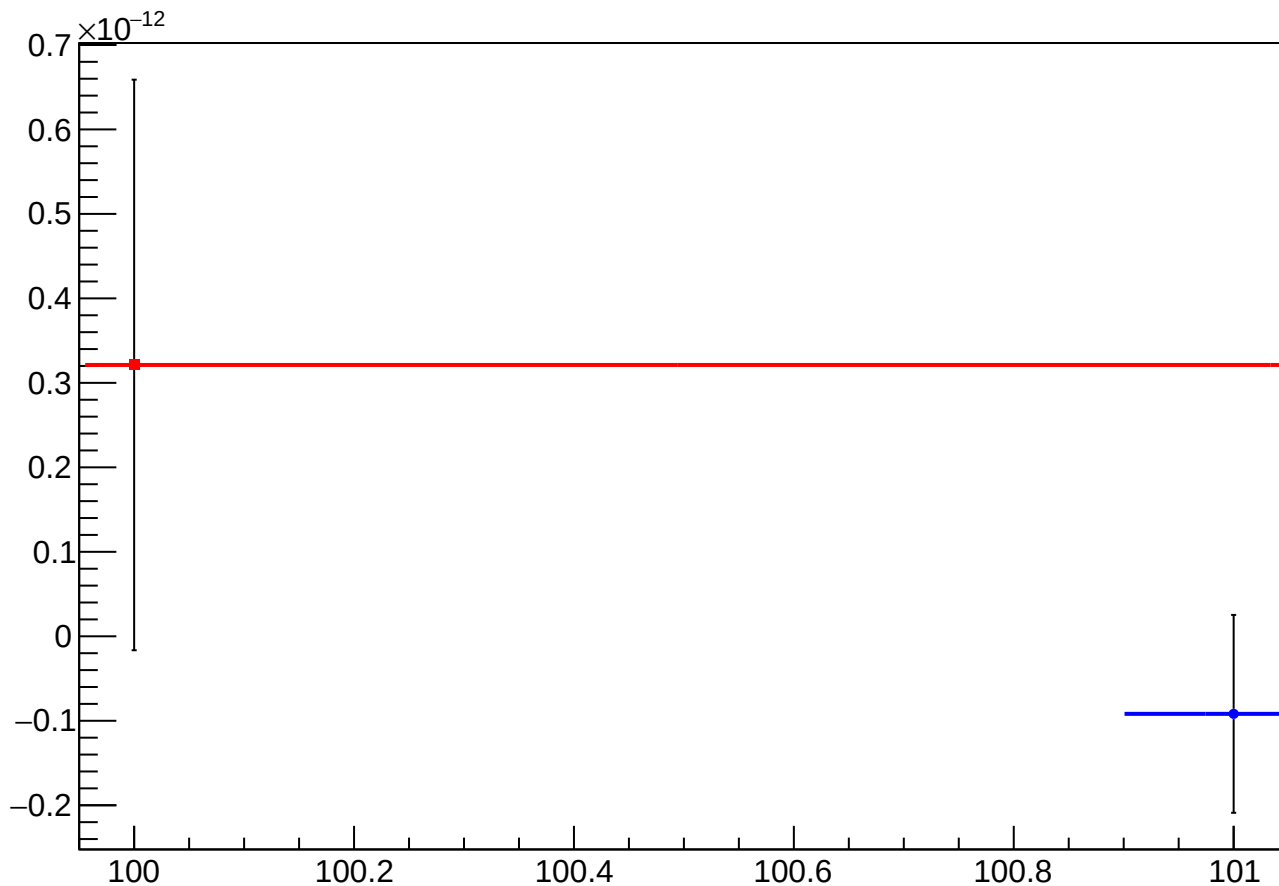
Right: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

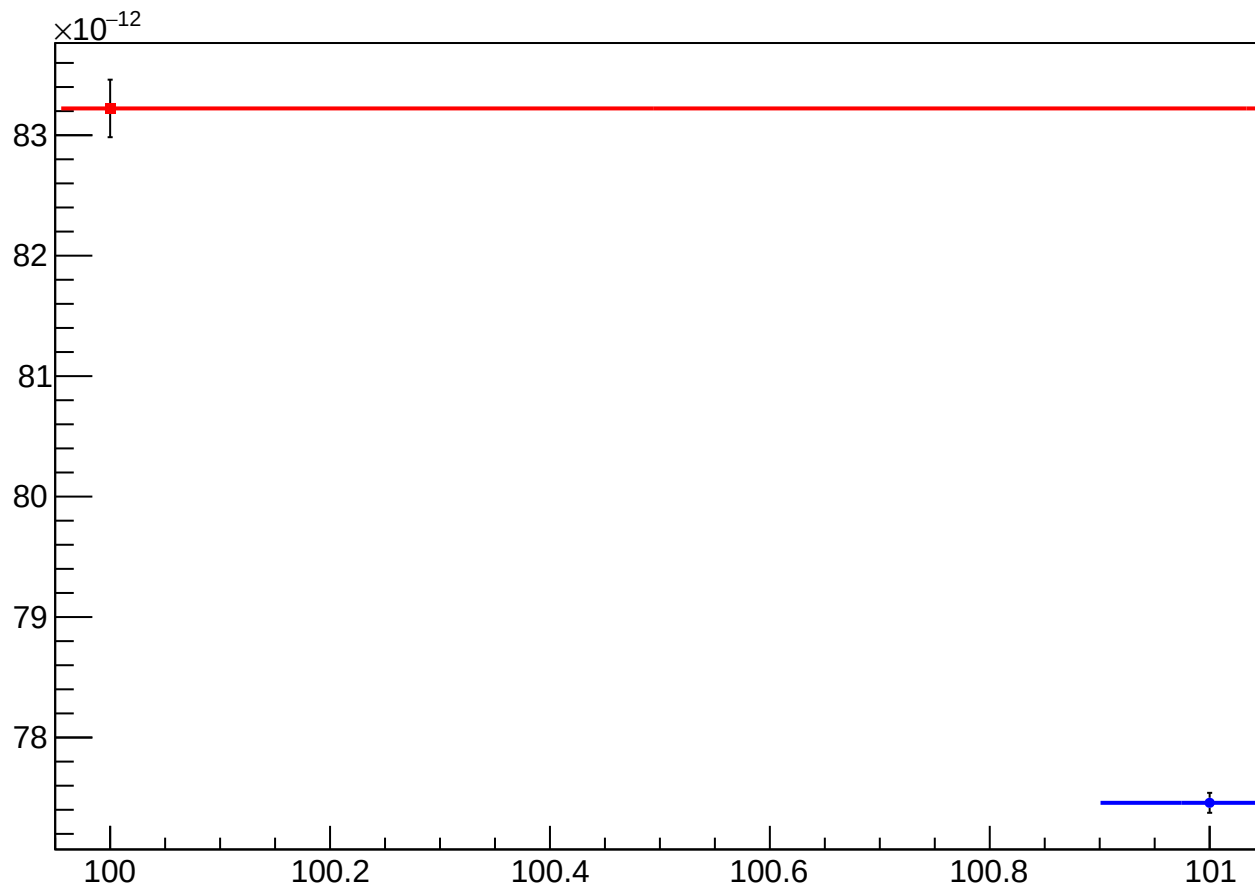
Right: -0.000+/-0.000  $\chi^2$ /NDF: 1.3/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 1.3/1

asym\_atl\_dd\_atr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected

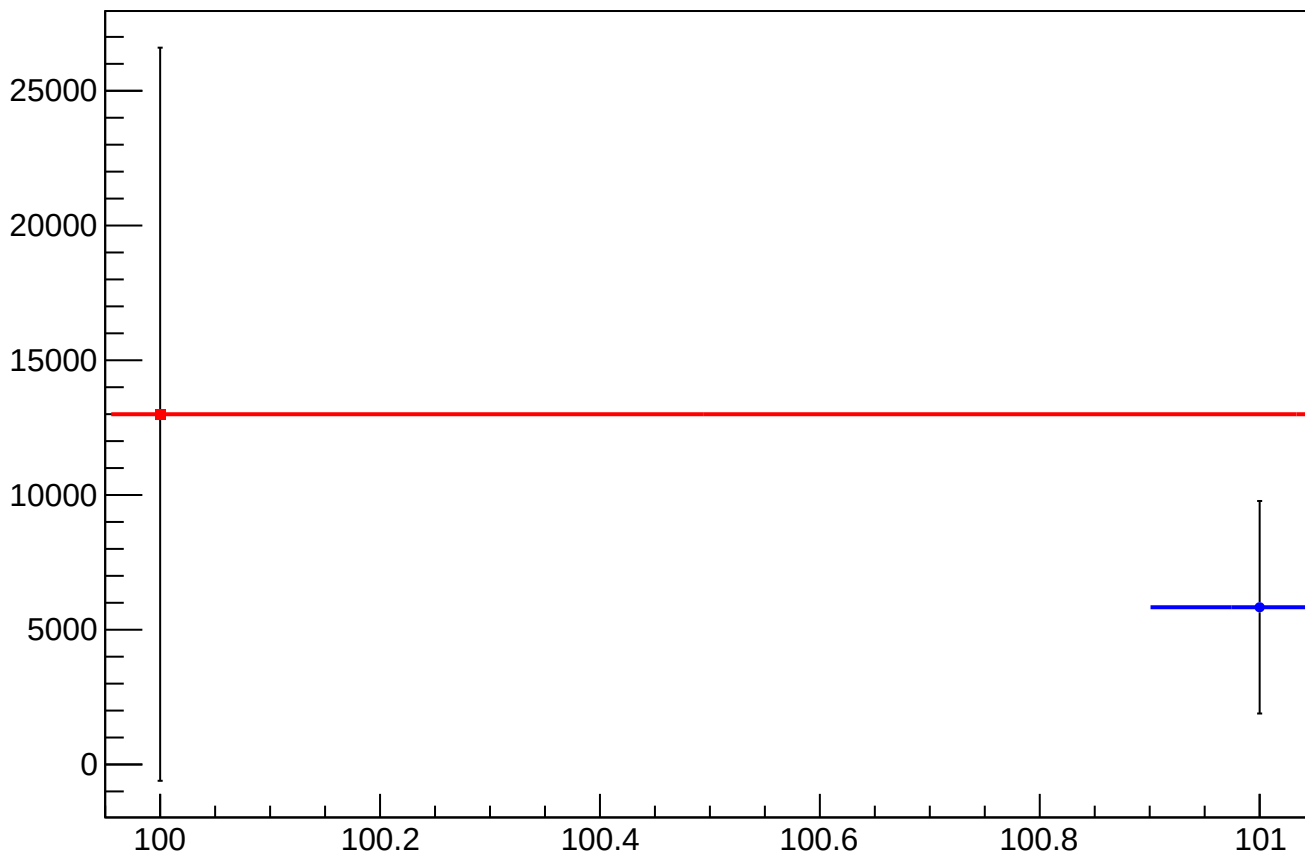


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 520.2/1  
 In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 520.2/1



reg\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 5834.492+/-3943.327  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 12997.210+/-13603.130  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

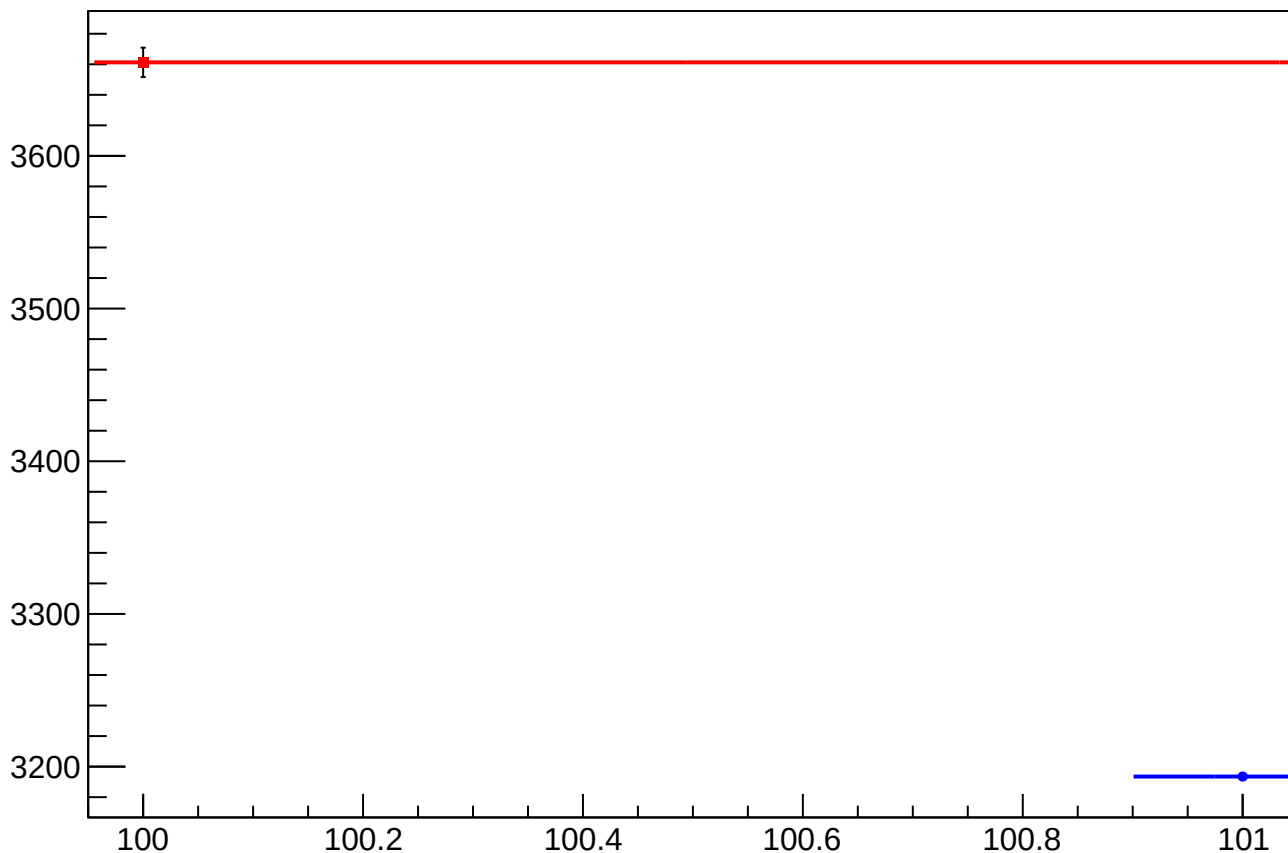
Right: 6389.735+/-3787.404  $\chi^2/\text{NDF}$ : 0.3/1

In: 5834.492+/-3943.327  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 6389.735+/-3787.404  $\chi^2/\text{NDF}$ : 0.3/1

reg\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3193.505 $\pm$ 2.788  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3661.264 $\pm$ 9.619  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

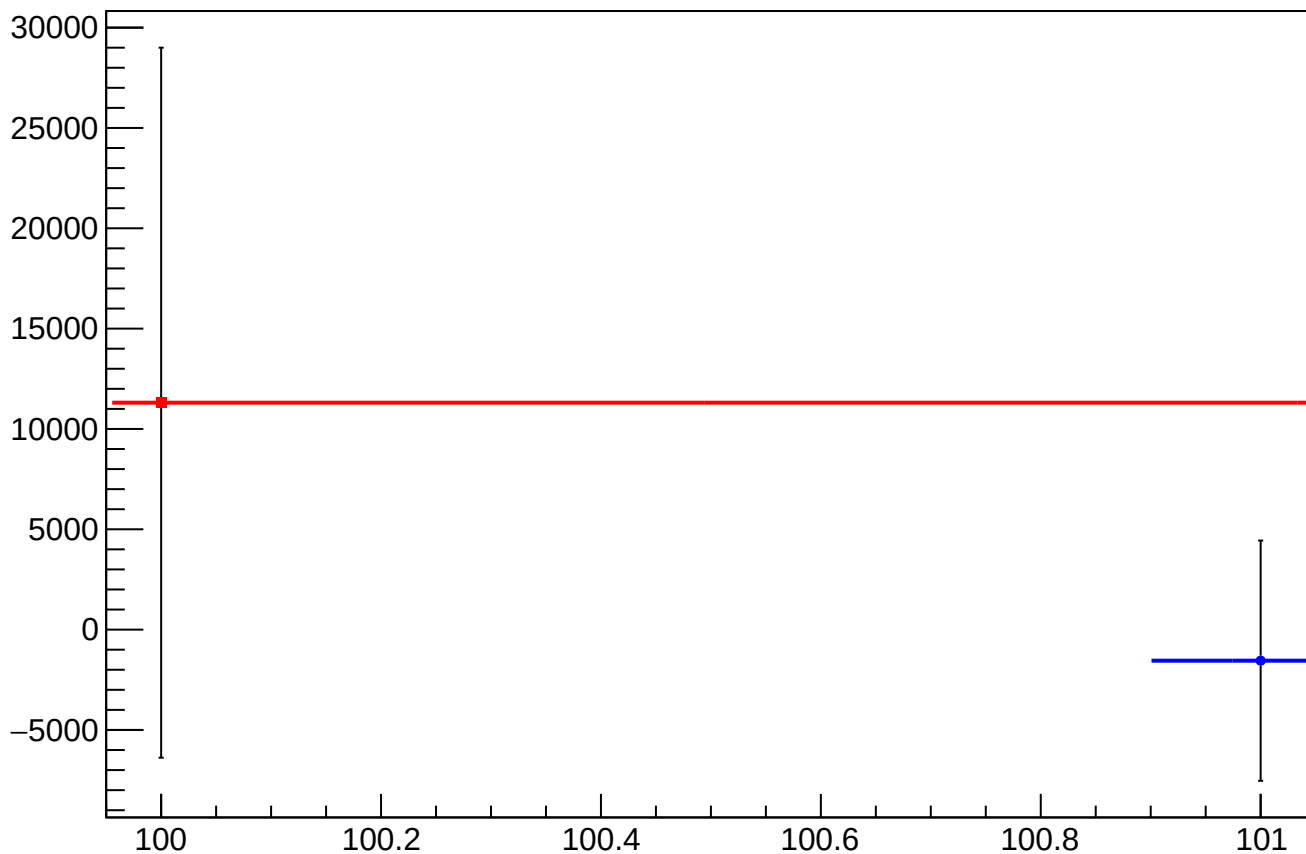
Right: 3229.765 $\pm$ 2.678  $\chi^2/\text{NDF}$ : 2181.5/1

In: 3193.505 $\pm$ 2.788  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3229.765 $\pm$ 2.678  $\chi^2/\text{NDF}$ : 2181.5/1

asym\_atl\_avg\_atr\_avg\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1547.897+/-5986.215  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11308.645+/-17692.382  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

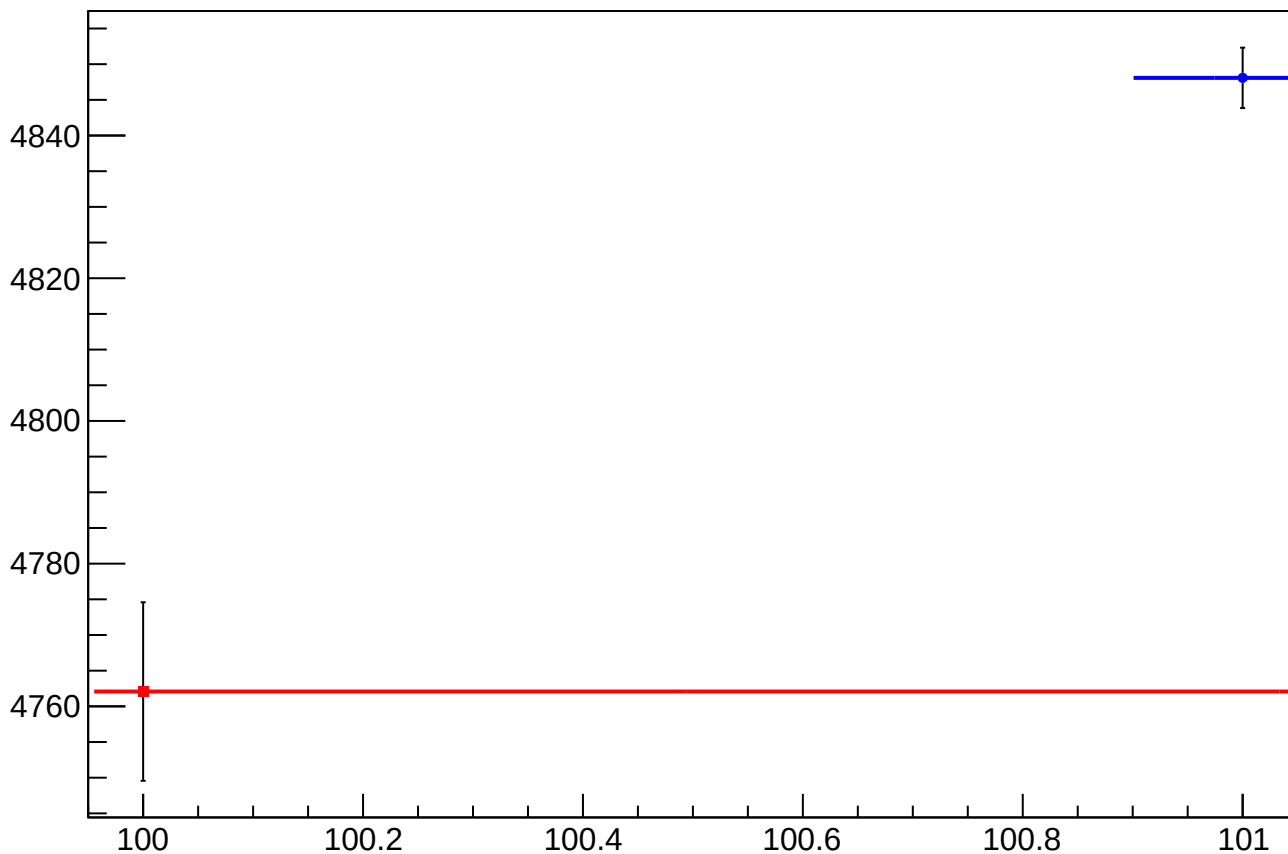
Right: -227.259+/-5670.431  $\chi^2/\text{NDF}$ : 0.5/1

In: -1547.897+/-5986.215  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -227.259+/-5670.431  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atl\_avg\_atr\_avg\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4848.081 $\pm$ 4.233  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4762.076 $\pm$ 12.510  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

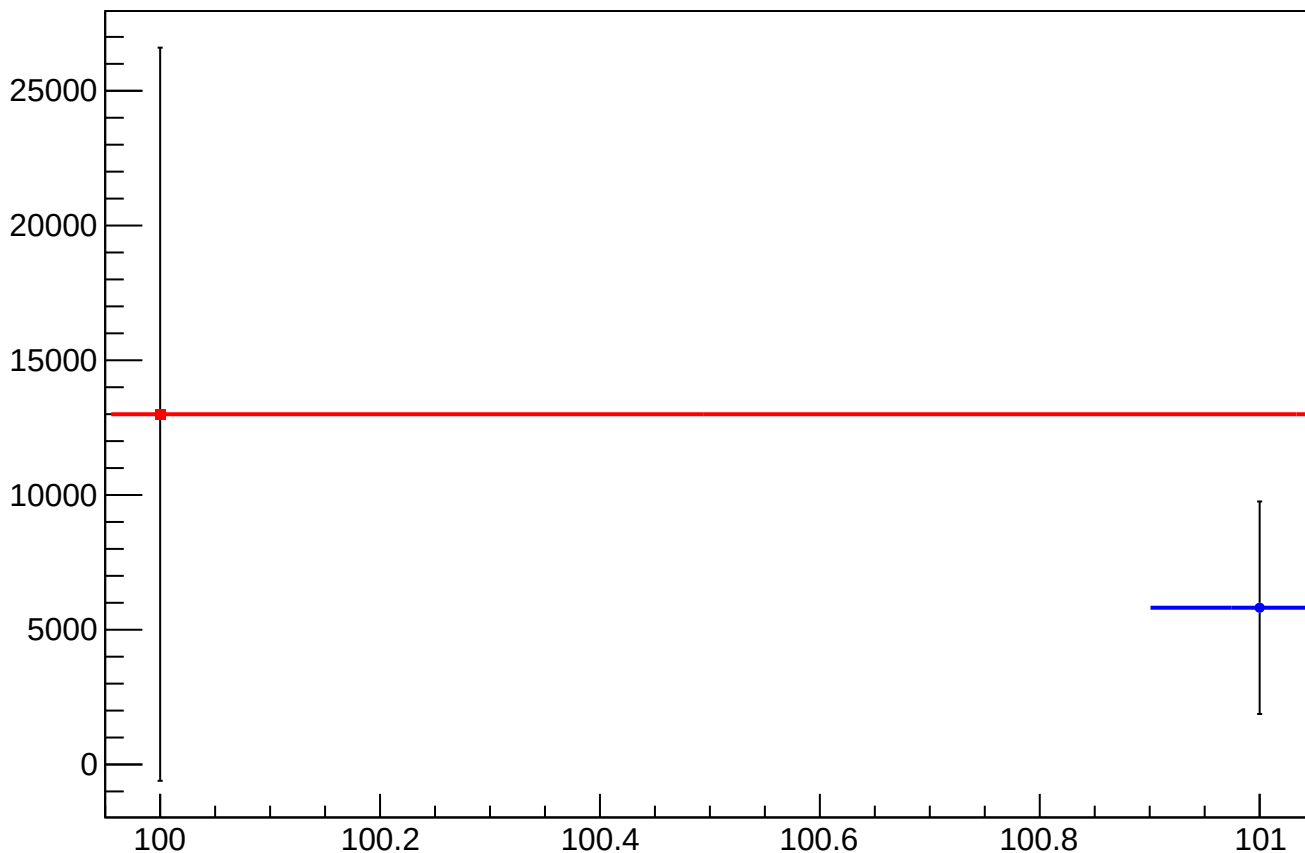
Right: 4839.246 $\pm$ 4.010  $\chi^2/\text{NDF}$ : 42.4/1

In: 4848.081 $\pm$ 4.233  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4839.246 $\pm$ 4.010  $\chi^2/\text{NDF}$ : 42.4/1

cor\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 5817.043+/-3943.346  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 12997.457+/-13603.130  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

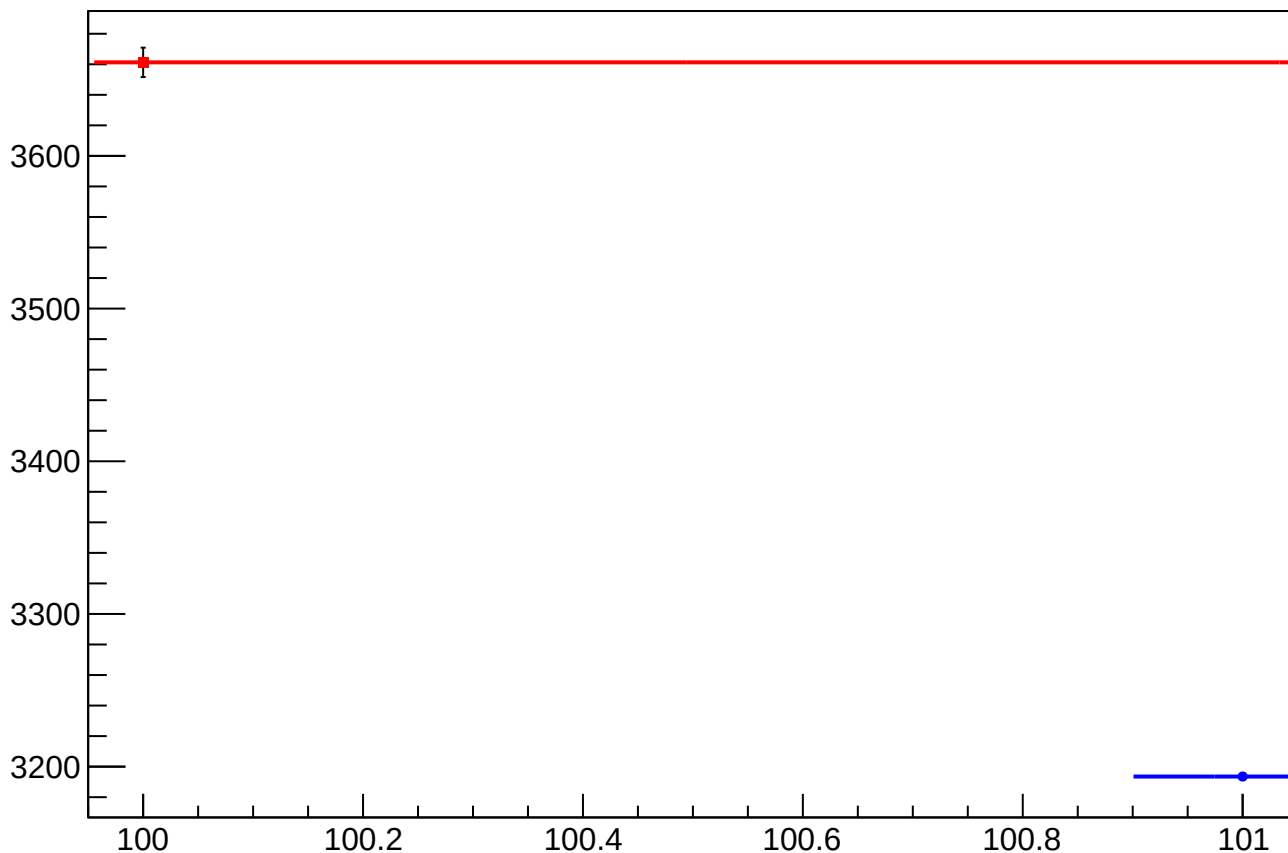
Right: 6373.663+/-3787.421  $\chi^2/\text{NDF}$ : 0.3/1

In: 5817.043+/-3943.346  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 6373.663+/-3787.421  $\chi^2/\text{NDF}$ : 0.3/1

cor\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3193.516 $\pm$ 2.788  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3661.264 $\pm$ 9.619  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

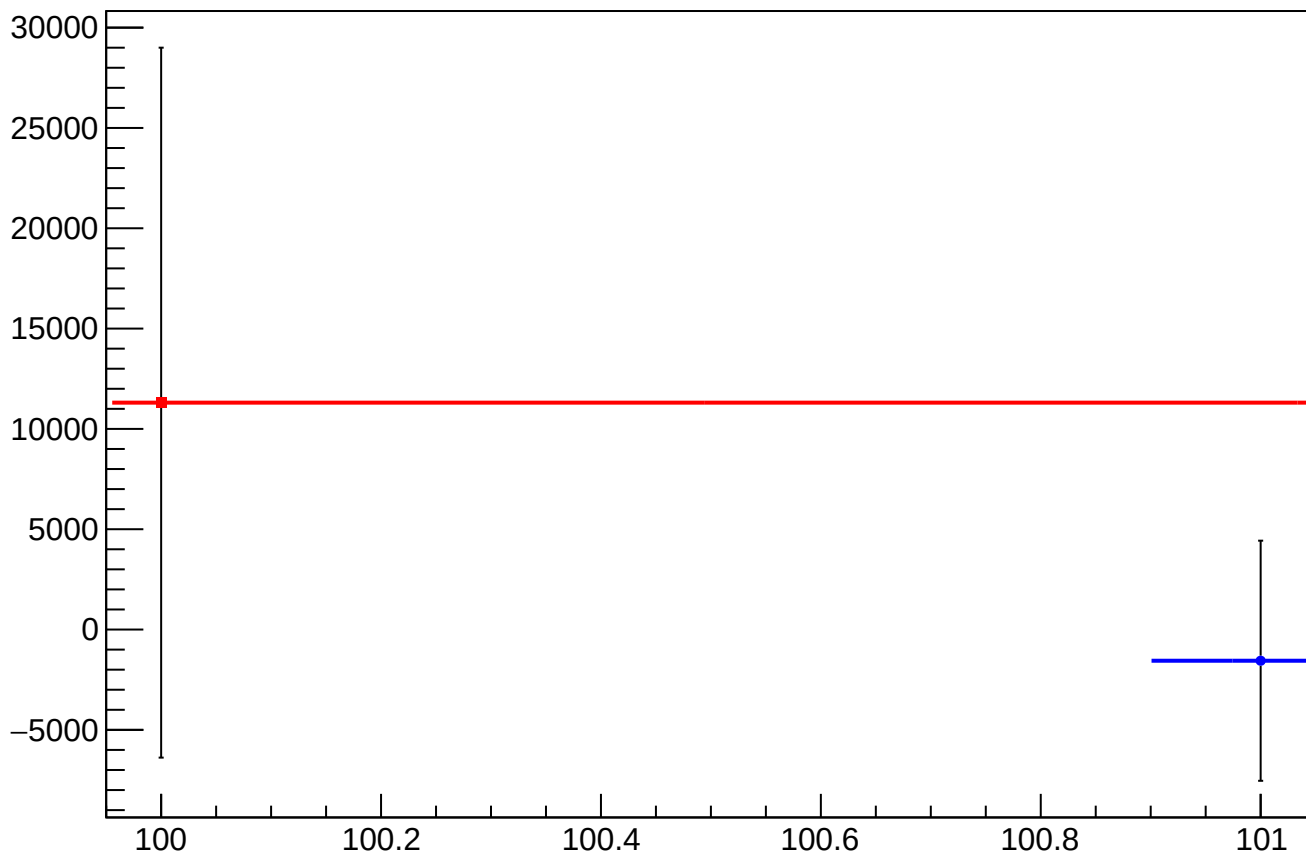
Right: 3229.776 $\pm$ 2.678  $\chi^2$ /NDF: 2181.4/1

In: 3193.516 $\pm$ 2.788  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3229.776 $\pm$ 2.678  $\chi^2$ /NDF: 2181.4/1

asym\_atl\_avg\_atr\_avg\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1554.903+/-5984.004  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 11308.912+/-17692.372  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

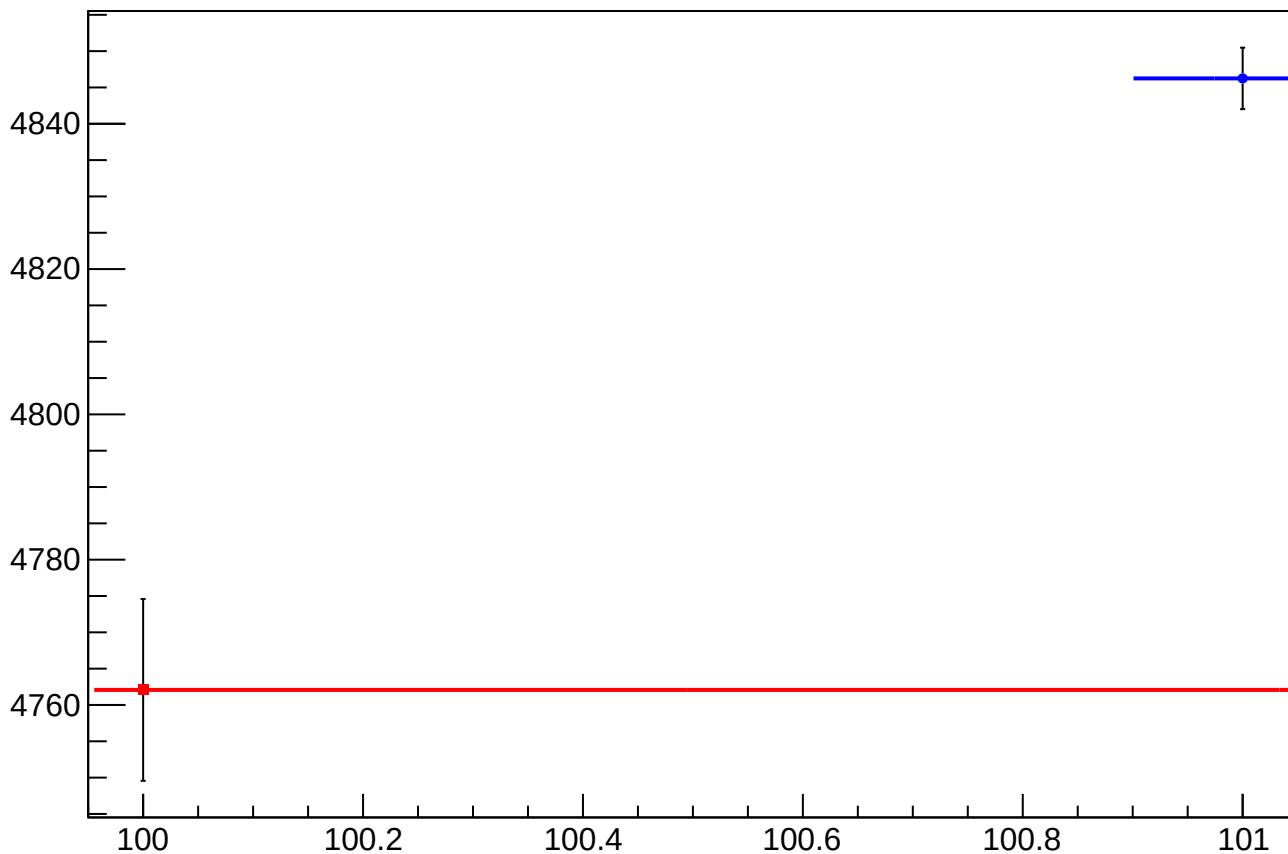
Right: -234.393+/-5668.551  $\chi^2$ /NDF: 0.5/1

In: -1554.903+/-5984.004  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -234.393+/-5668.551  $\chi^2$ /NDF: 0.5/1

asym\_atl\_avg\_atr\_avg\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4846.246 +/- 4.231  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4762.073 +/- 12.510  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4837.606 +/- 4.008  $\chi^2/\text{NDF}$ : 40.6/1

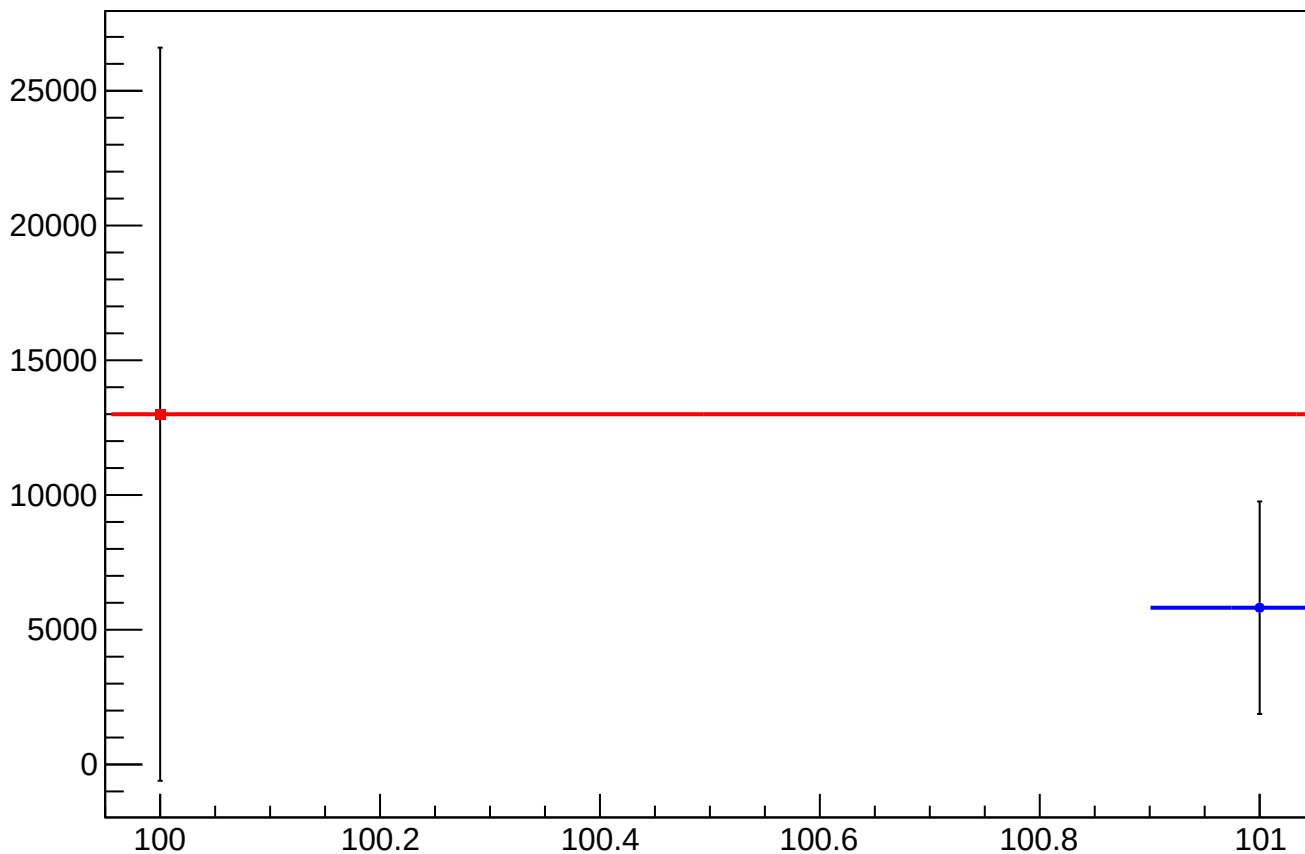
In: 4846.246 +/- 4.231  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4837.606 +/- 4.008  $\chi^2/\text{NDF}$ : 40.6/1



eigen\_cor\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 5817.043+/-3943.346  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 12997.457+/-13603.130  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

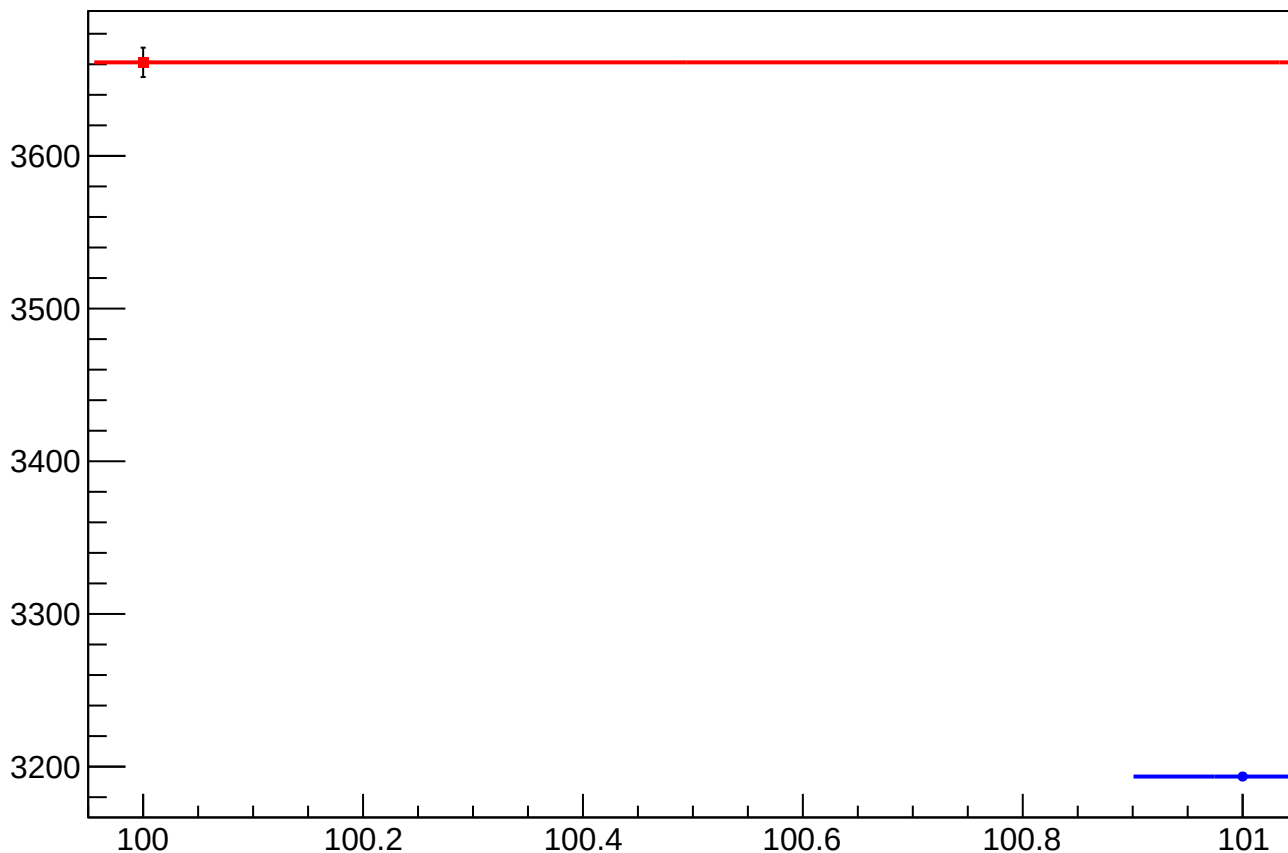
Right: 6373.663+/-3787.421  $\chi^2/\text{NDF}$ : 0.3/1

In: 5817.043+/-3943.346  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 6373.663+/-3787.421  $\chi^2/\text{NDF}$ : 0.3/1

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3193.516+/-2.788  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3661.264+/-9.619  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

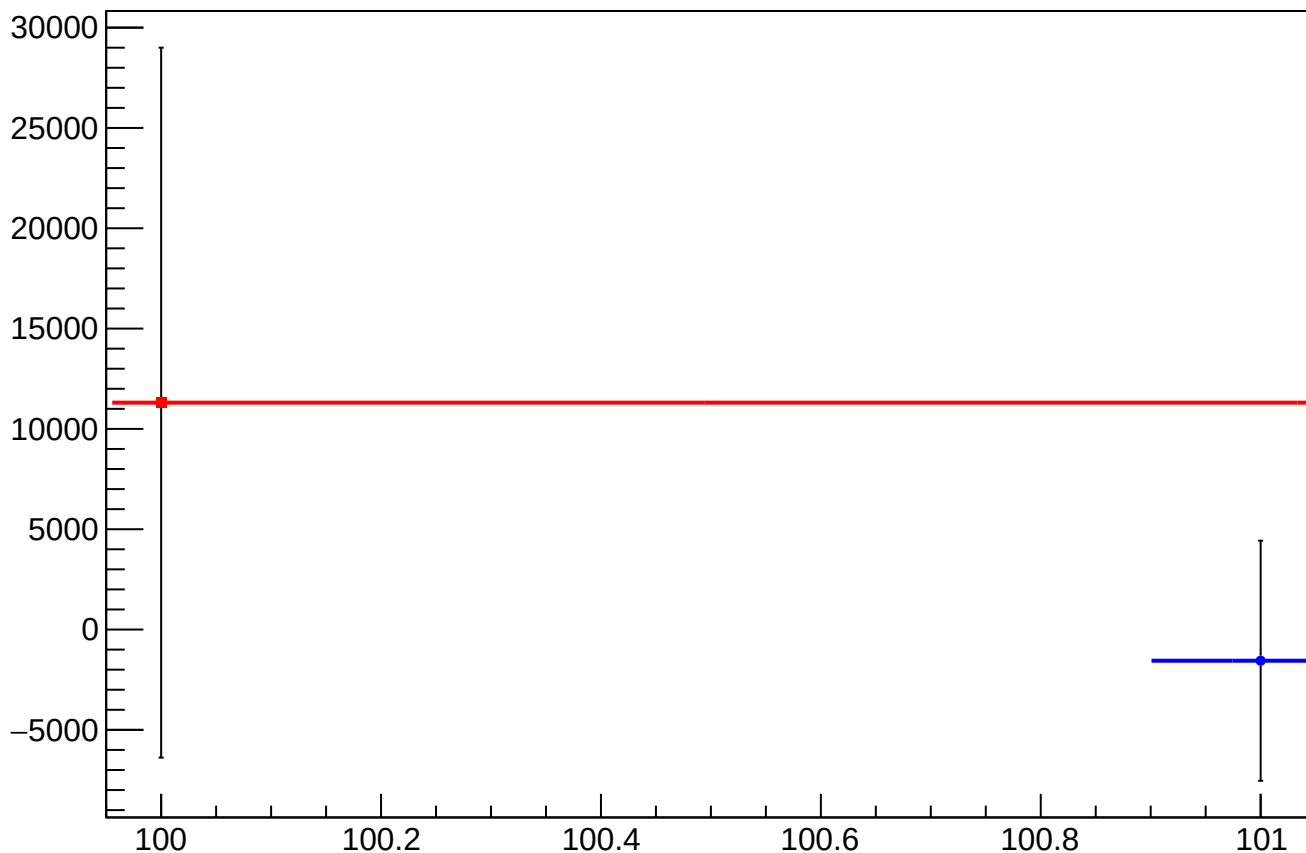
Right: 3229.776+/-2.678  $\chi^2/\text{NDF}$ : 2181.4/1

In: 3193.516+/-2.788  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3229.776+/-2.678  $\chi^2/\text{NDF}$ : 2181.4/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1554.903+/-5984.004  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 11308.912+/-17692.372  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

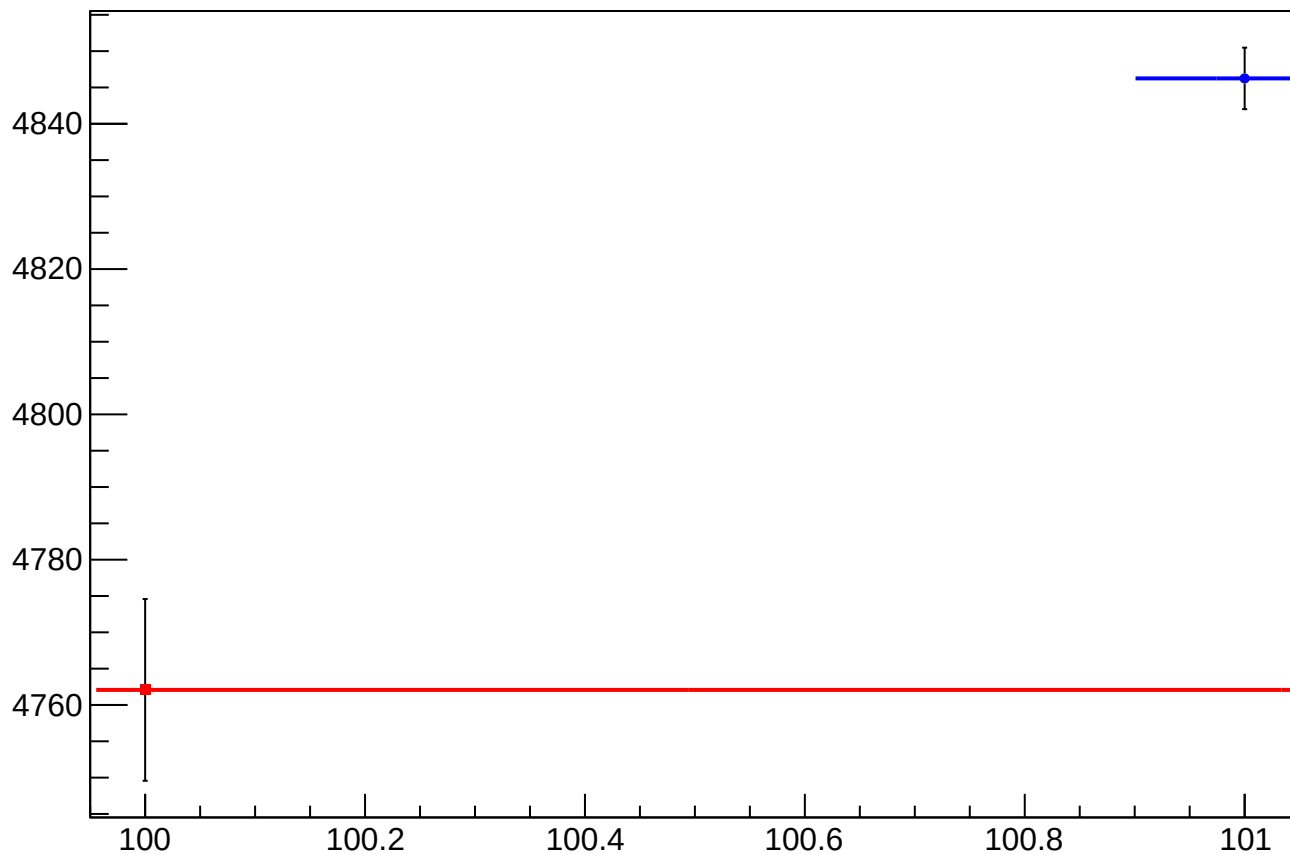
Right: -234.393+/-5668.551  $\chi^2$ /NDF: 0.5/1

In: -1554.903+/-5984.004  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -234.393+/-5668.551  $\chi^2$ /NDF: 0.5/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4846.246±/4.231  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4762.073±/12.510  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/0.000  $\chi^2$ /NDF: 0.0/0

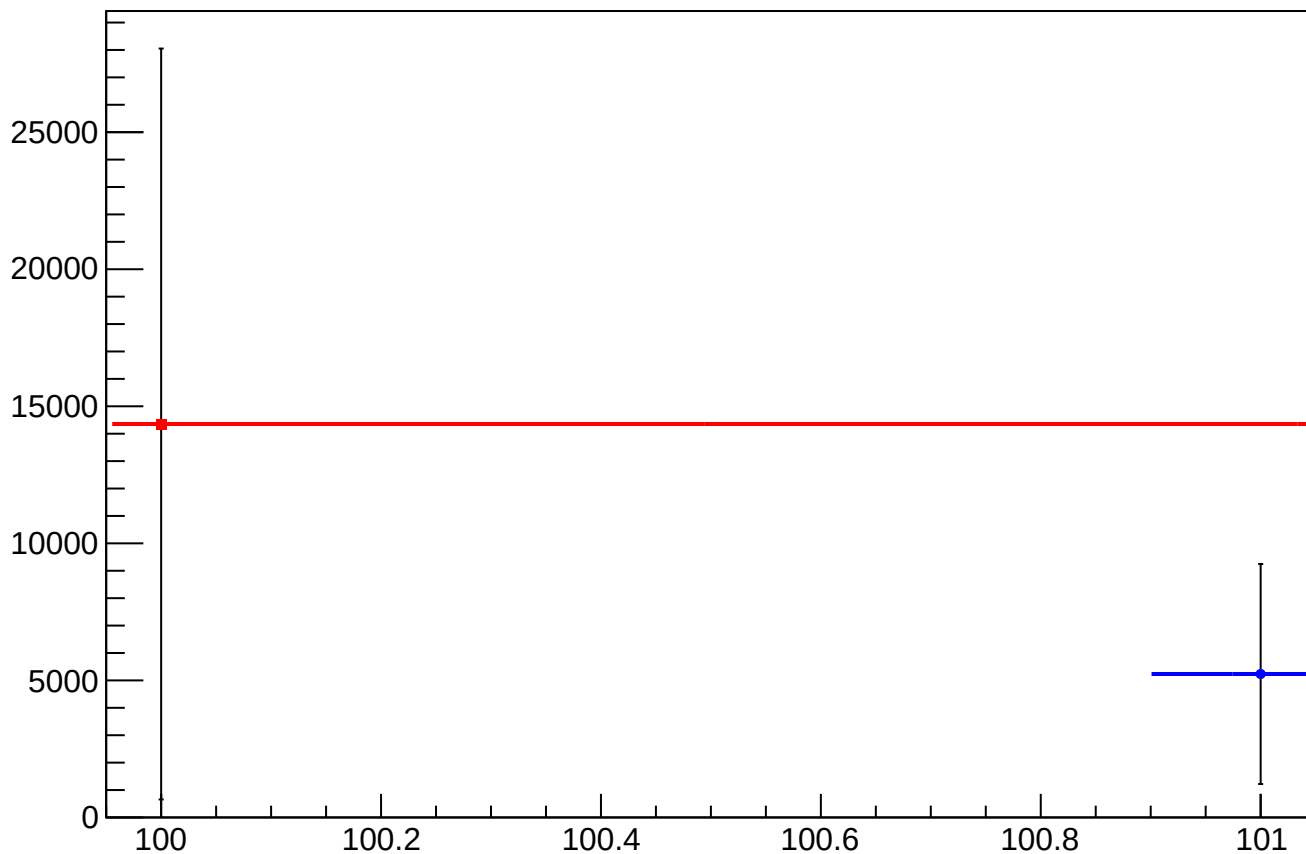
Right: 4837.606±/4.008  $\chi^2$ /NDF: 40.6/1

In: 4846.246±/4.231  $\chi^2$ /NDF:0.0/0

Out: 0.000±/0.000  $\chi^2$ /NDF:0.0/0

All: 4837.606±/4.008  $\chi^2$ /NDF: 40.6/1

dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 5233.608+/-4013.898  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14353.893+/-13696.966  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

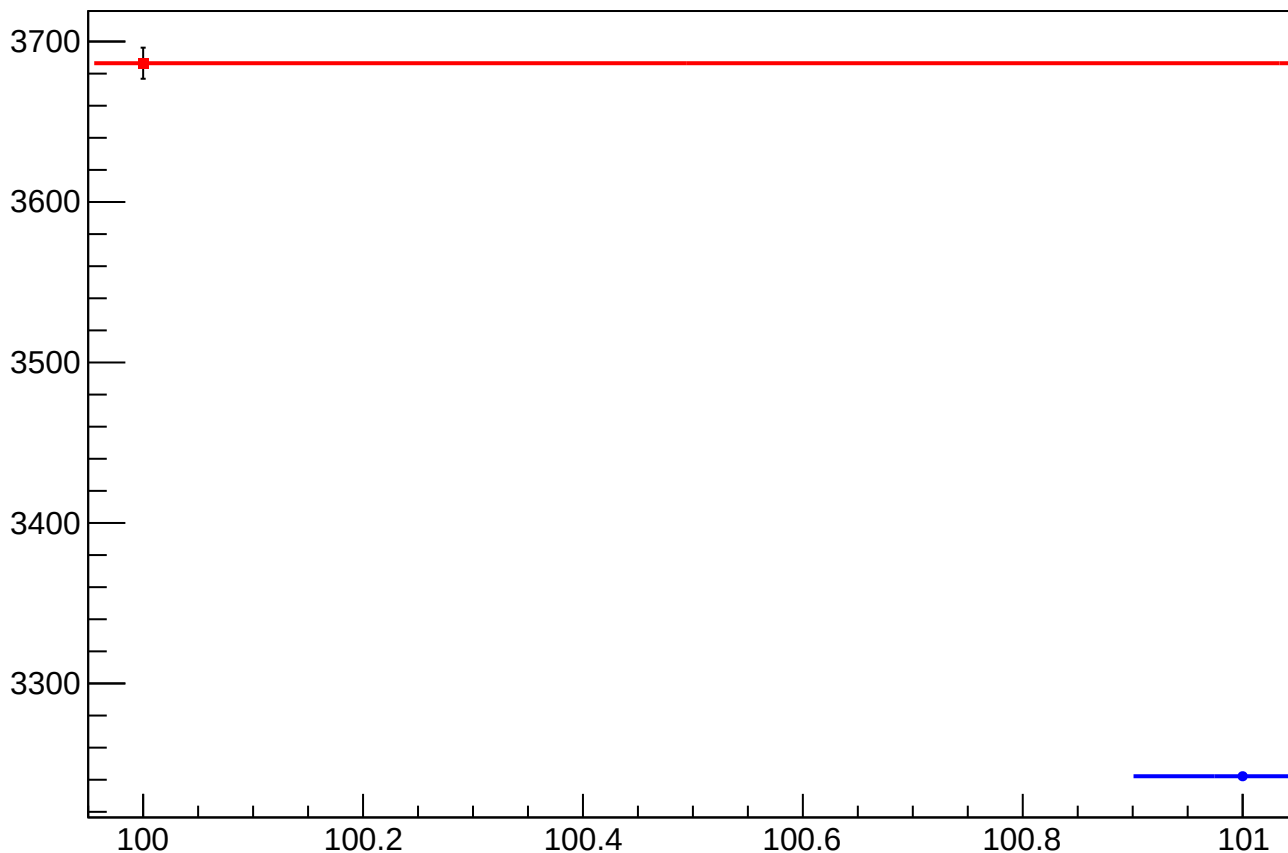
Right: 5954.900+/-3851.907  $\chi^2/\text{NDF}$ : 0.4/1

In: 5233.608+/-4013.898  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5954.900+/-3851.907  $\chi^2/\text{NDF}$ : 0.4/1

dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3242.180 $\pm$ 2.838  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3686.482 $\pm$ 9.685  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

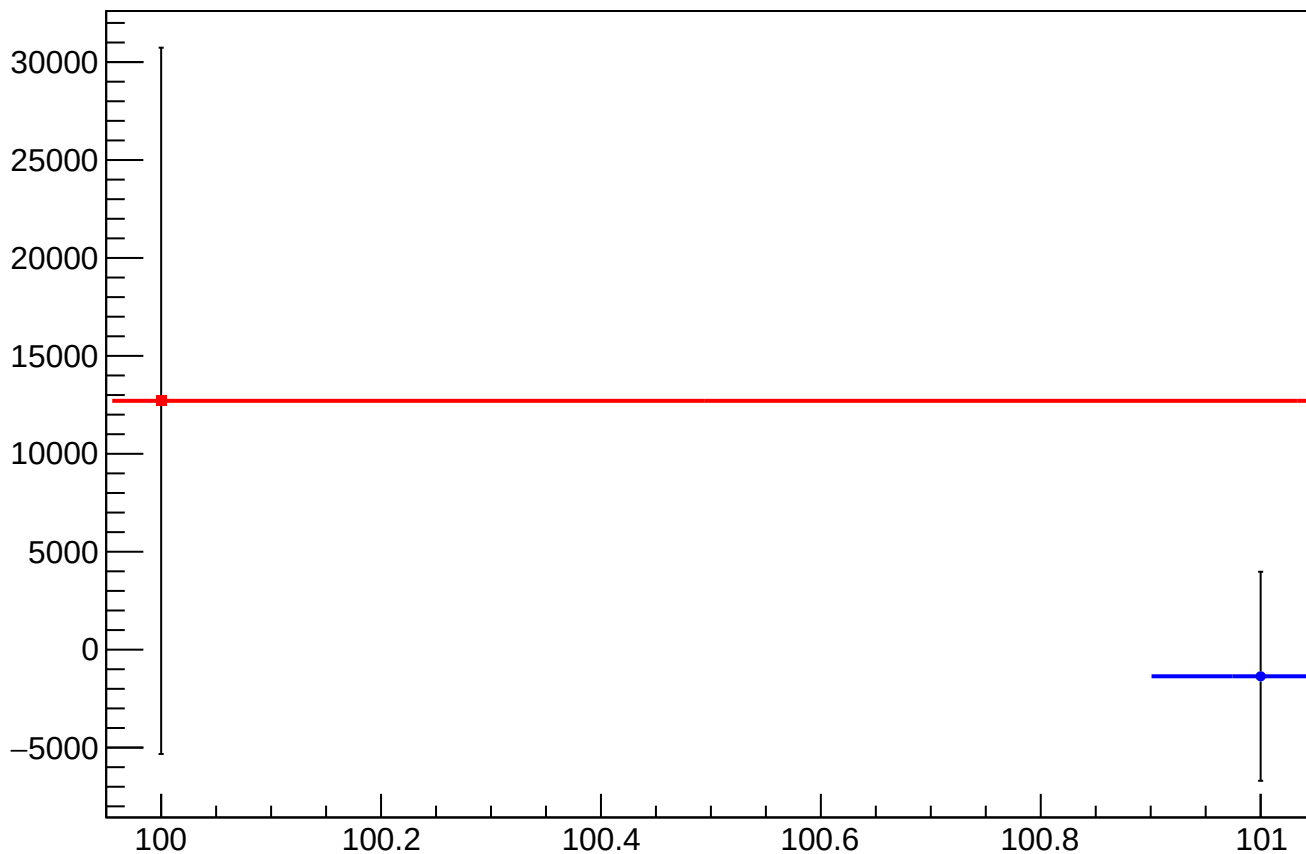
Right: 3277.318 $\pm$ 2.724  $\chi^2/\text{NDF}$ : 1938.0/1

In: 3242.180 $\pm$ 2.838  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3277.318 $\pm$ 2.724  $\chi^2/\text{NDF}$ : 1938.0/1

asym\_atl\_avg\_atr\_avg\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1359.266+/-5336.575  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12704.805+/-18031.909  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

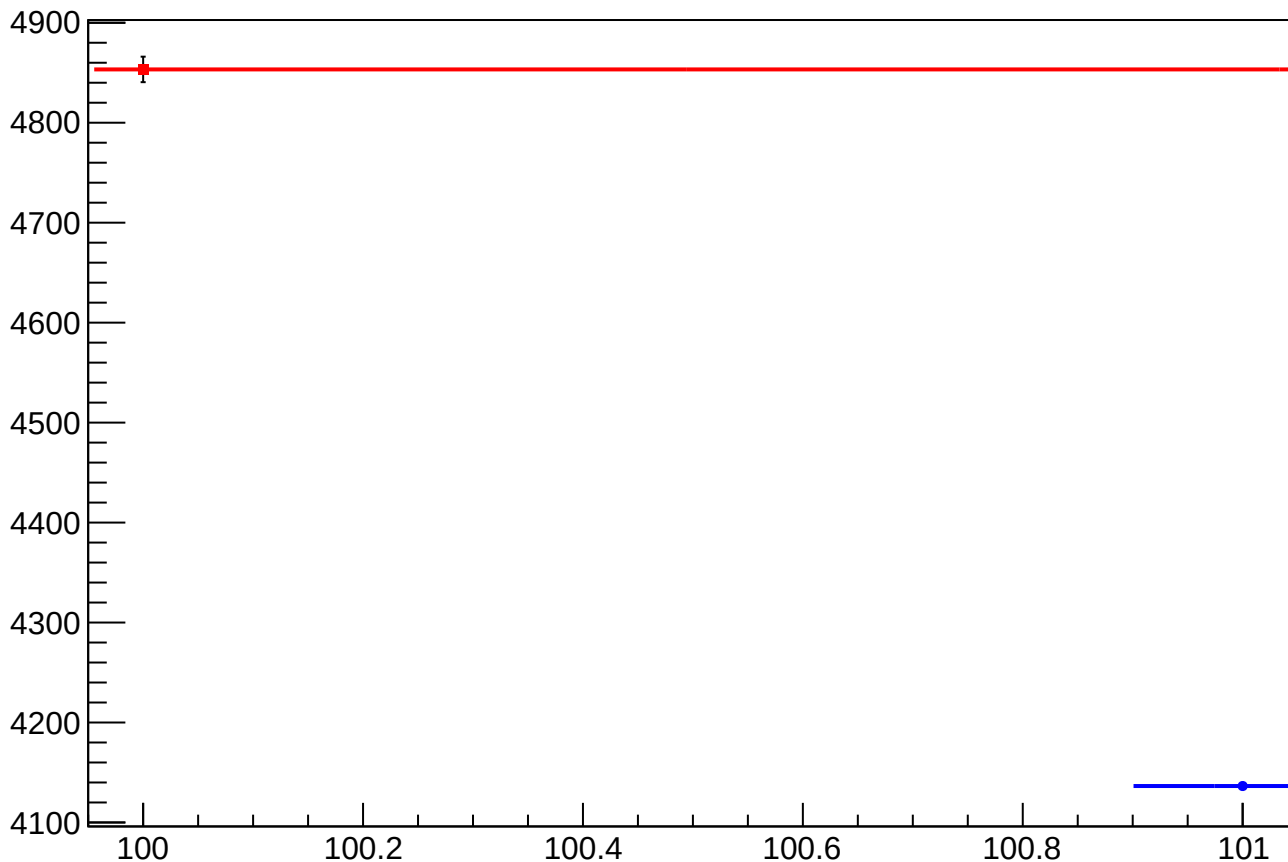
Right: -226.634+/-5117.178  $\chi^2/\text{NDF}$ : 0.6/1

In: -1359.266+/-5336.575  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -226.634+/-5117.178  $\chi^2/\text{NDF}$ : 0.6/1

asym\_atl\_avg\_atr\_avg\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4136.457+/-3.774  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4853.322+/-12.750  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4194.189+/-3.618  $\chi^2/\text{NDF}$ : 2906.4/1

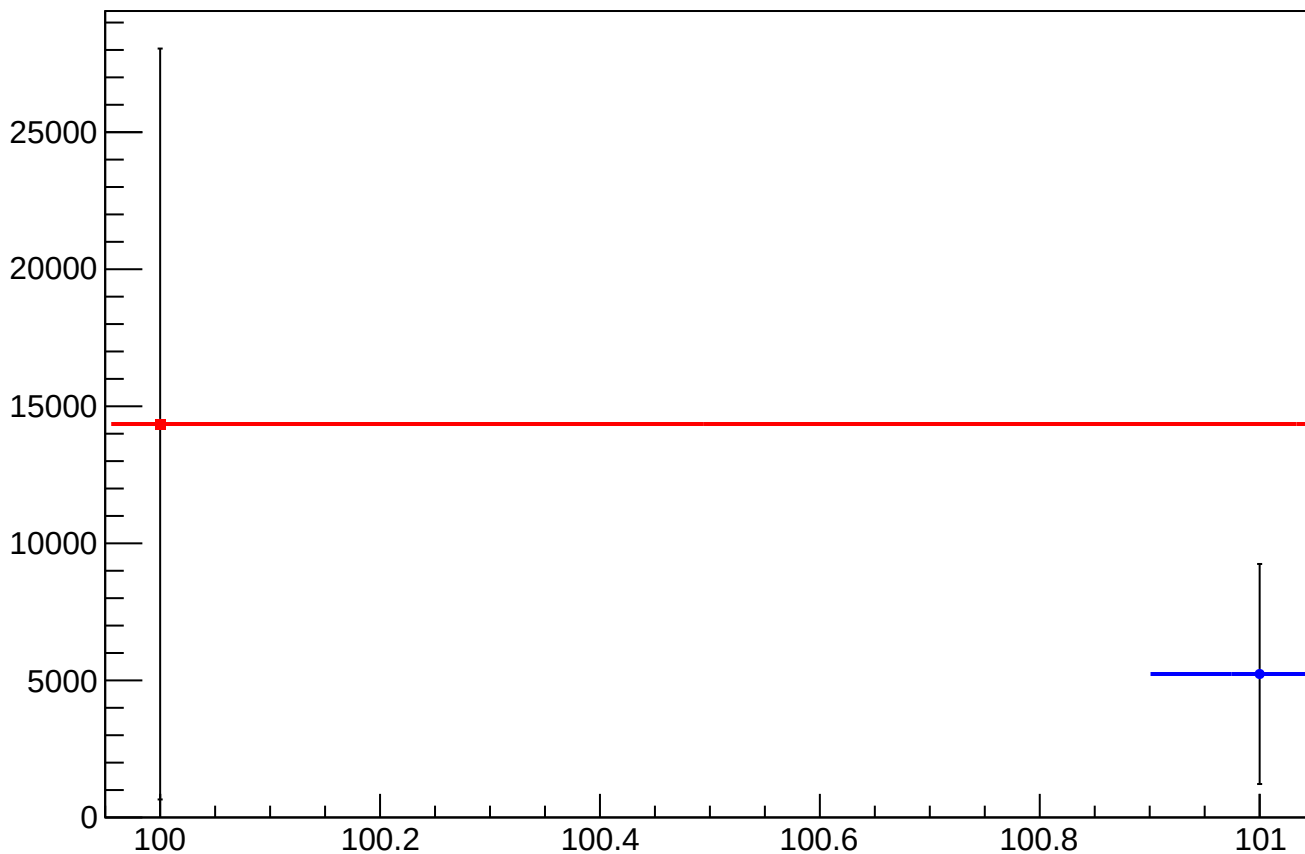
In: 4136.457+/-3.774  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4194.189+/-3.618  $\chi^2/\text{NDF}$ : 2906.4/1



eigen\_dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 5233.587+/-4013.898  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 14353.972+/-13696.969  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

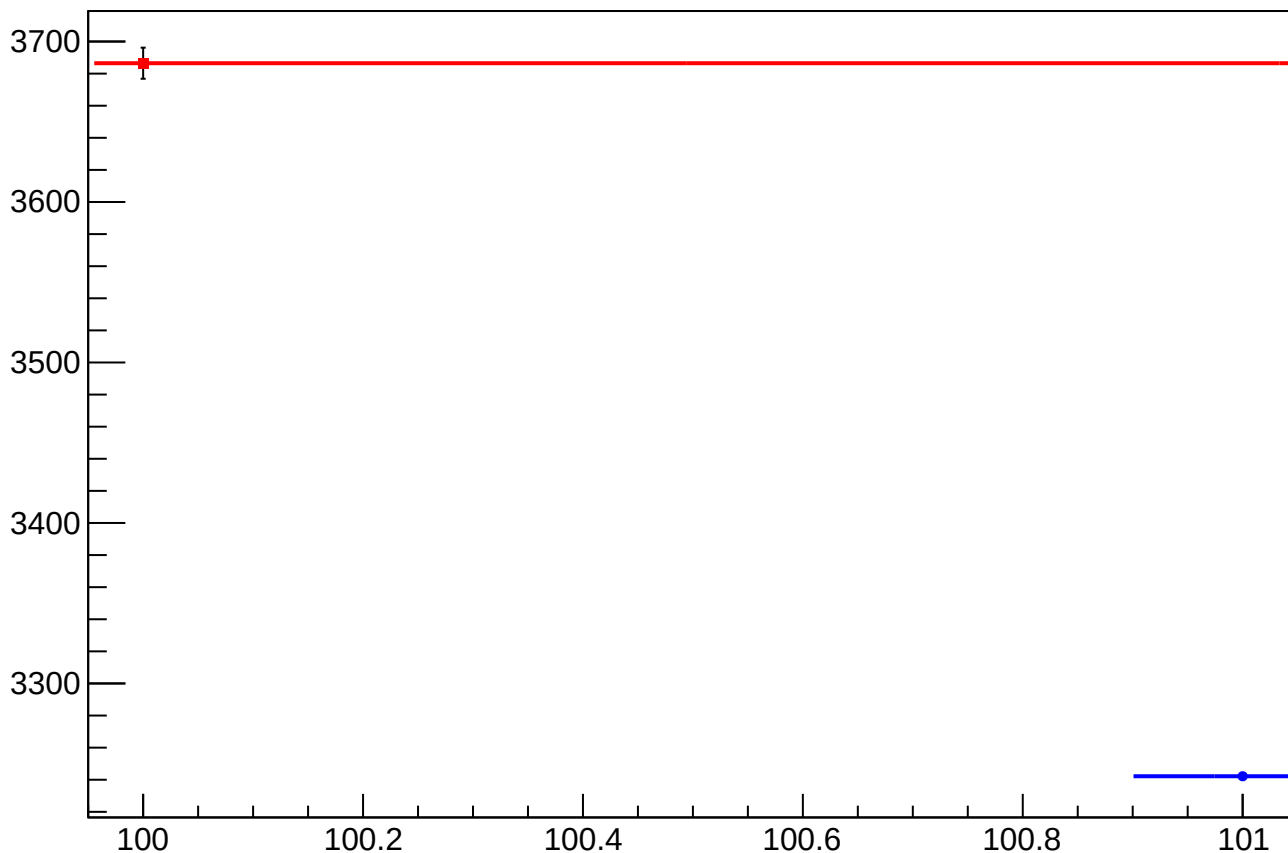
Right: 5954.886+/-3851.907  $\chi^2/\text{NDF}$ : 0.4/1

In: 5233.587+/-4013.898  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 5954.886+/-3851.907  $\chi^2/\text{NDF}$ : 0.4/1

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3242.180+/-2.838  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3686.483+/-9.685  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

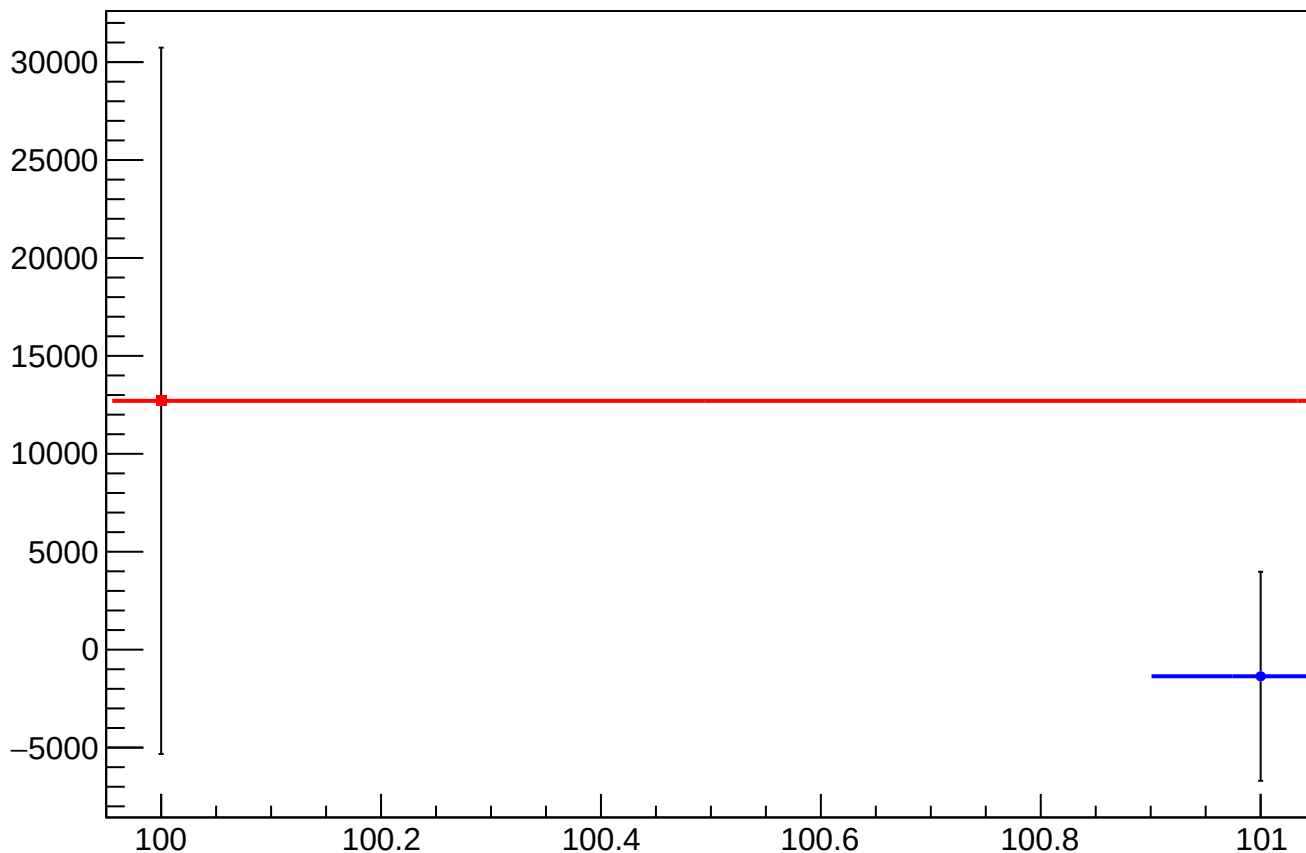
Right: 3277.318+/-2.724  $\chi^2/\text{NDF}$ : 1938.0/1

In: 3242.180+/-2.838  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3277.318+/-2.724  $\chi^2/\text{NDF}$ : 1938.0/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1359.280+/-5336.567  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12704.882+/-18031.878  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

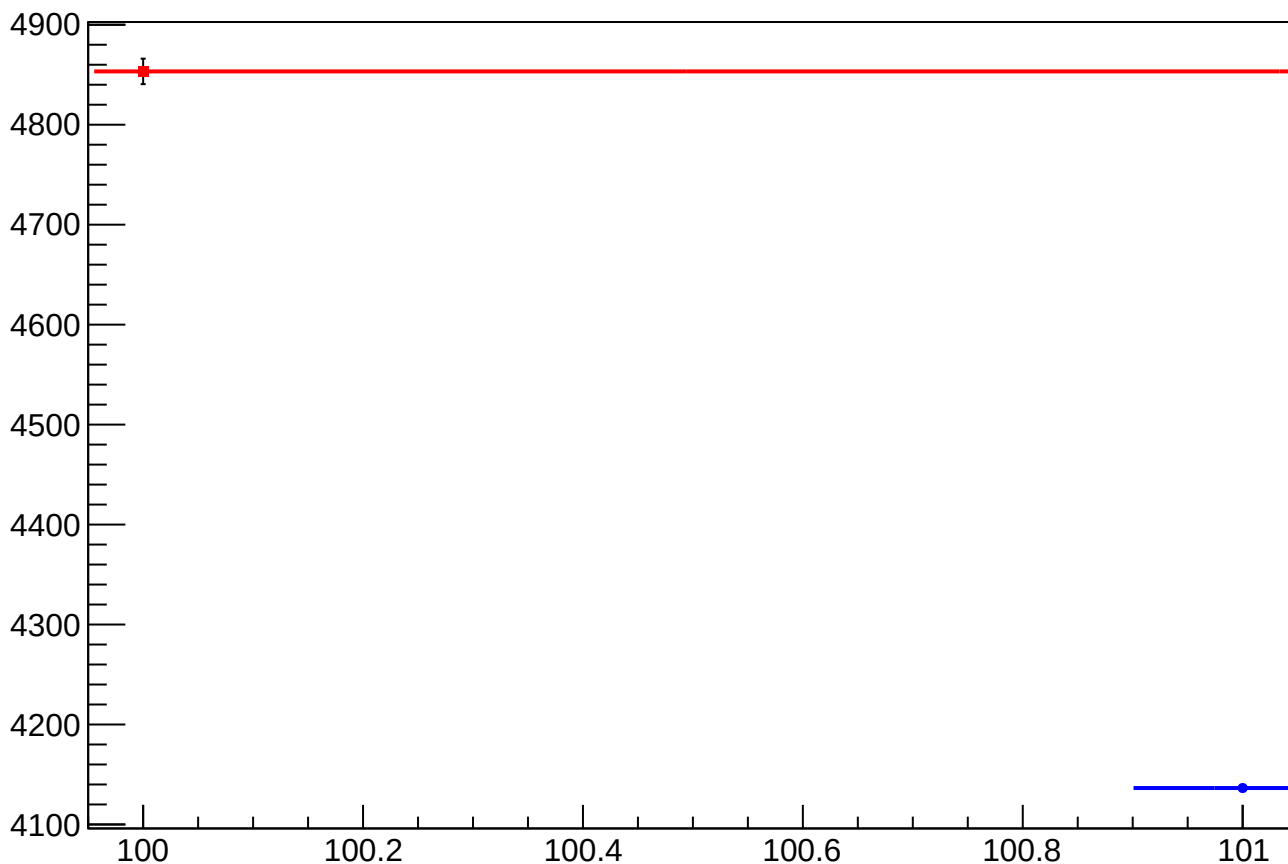
Right: -226.641+/-5117.170  $\chi^2$ /NDF: 0.6/1

In: -1359.280+/-5336.567  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -226.641+/-5117.170  $\chi^2$ /NDF: 0.6/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4136.451+/-3.774  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4853.313+/-12.750  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

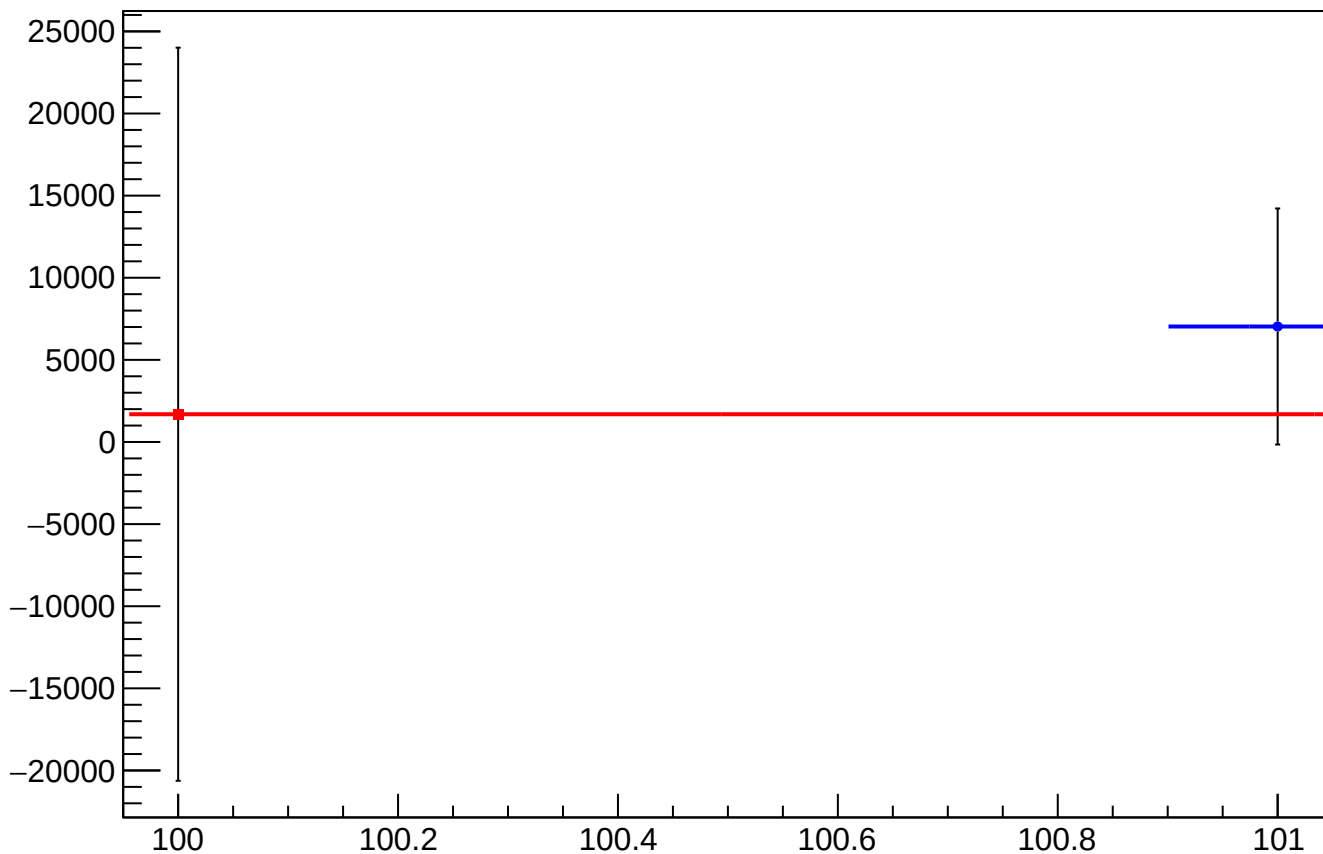
Right: 4194.182+/-3.618  $\chi^2/\text{NDF}$ : 2906.4/1

In: 4136.451+/-3.774  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4194.182+/-3.618  $\chi^2/\text{NDF}$ : 2906.4/1

asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 7031.276+/-7186.621  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1689.709+/-22318.877  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

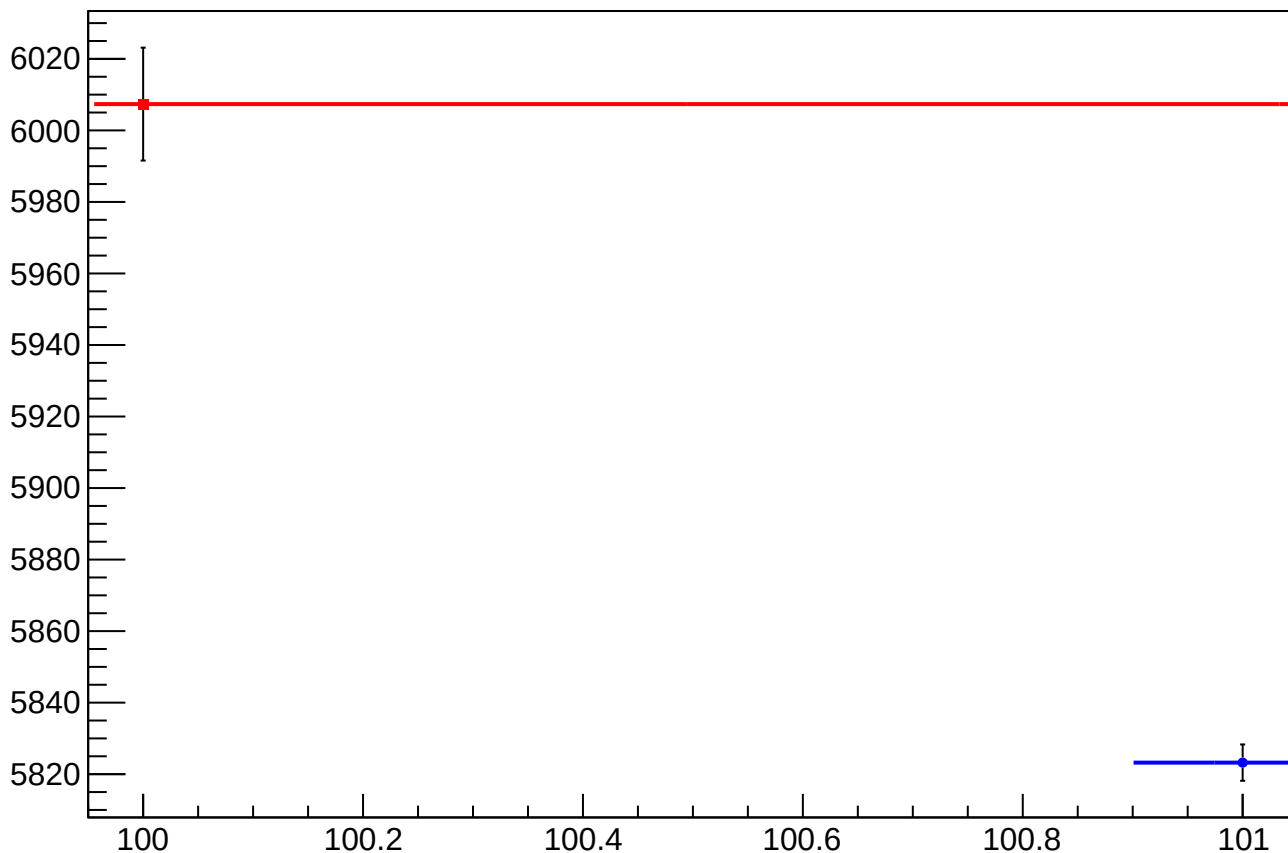
Right: 6529.478+/-6840.734  $\chi^2/\text{NDF}$ : 0.1/1

In: 7031.276+/-7186.621  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6529.478+/-6840.734  $\chi^2/\text{NDF}$ : 0.1/1

asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 5823.229+/-5.082  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6007.351+/-15.782  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

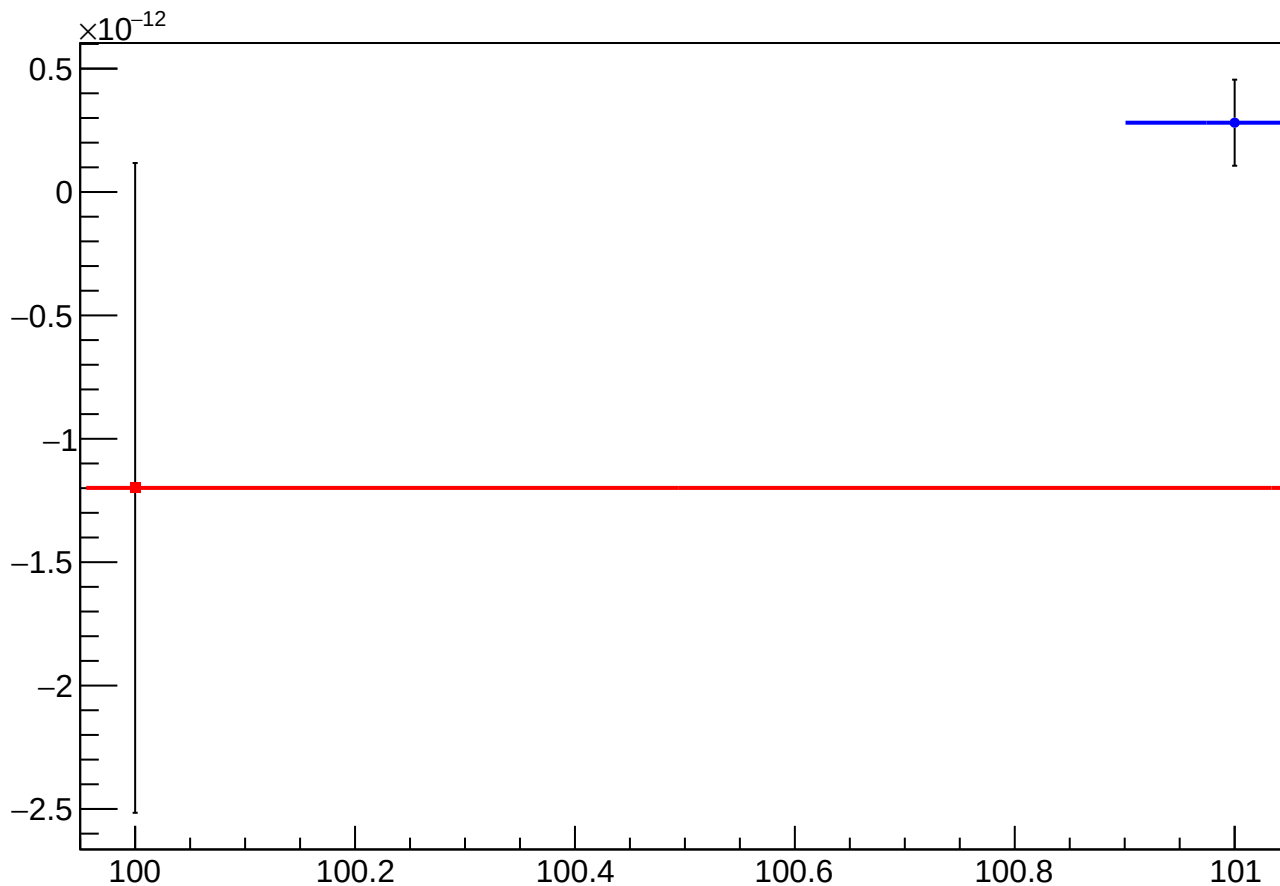
Right: 5840.526+/-4.837  $\chi^2/\text{NDF}$ : 123.3/1

In: 5823.229+/-5.082  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5840.526+/-4.837  $\chi^2/\text{NDF}$ : 123.3/1

asym\_atl\_avg\_atr\_avg\_avg\_reg\_vs\_slug\_sign\_corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

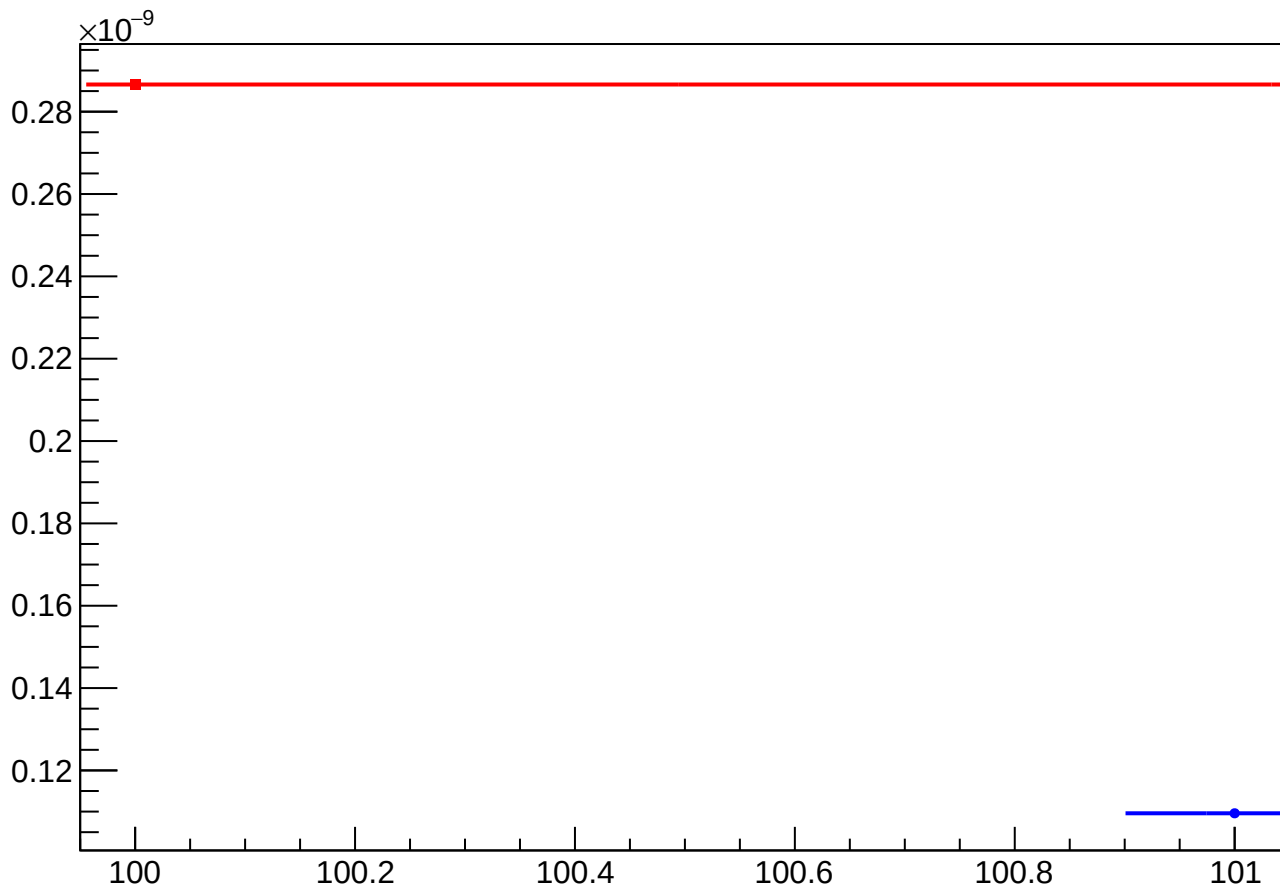
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.2/1

asym\_atl\_avg\_atr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 35533.3/1

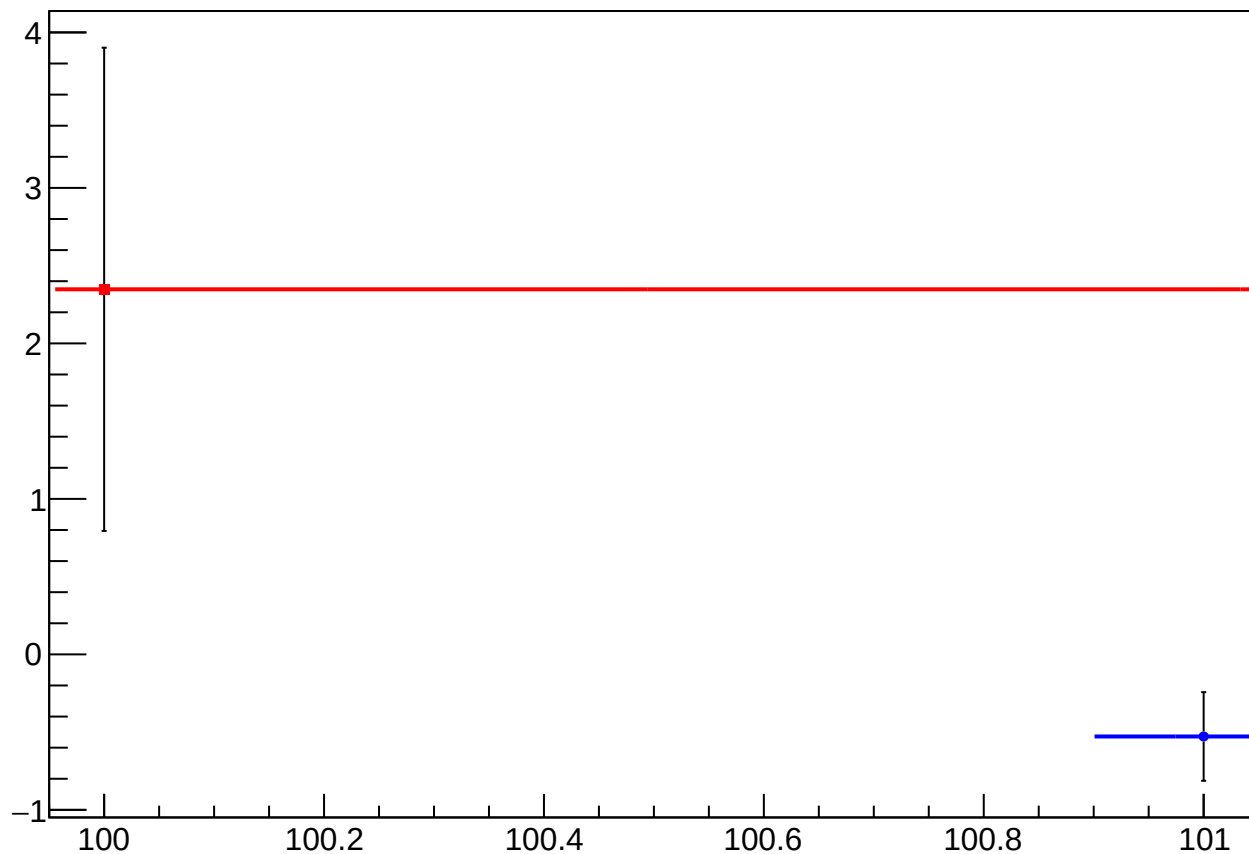
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 35533.3/1



asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.528+/-0.285  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.348+/-1.554  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

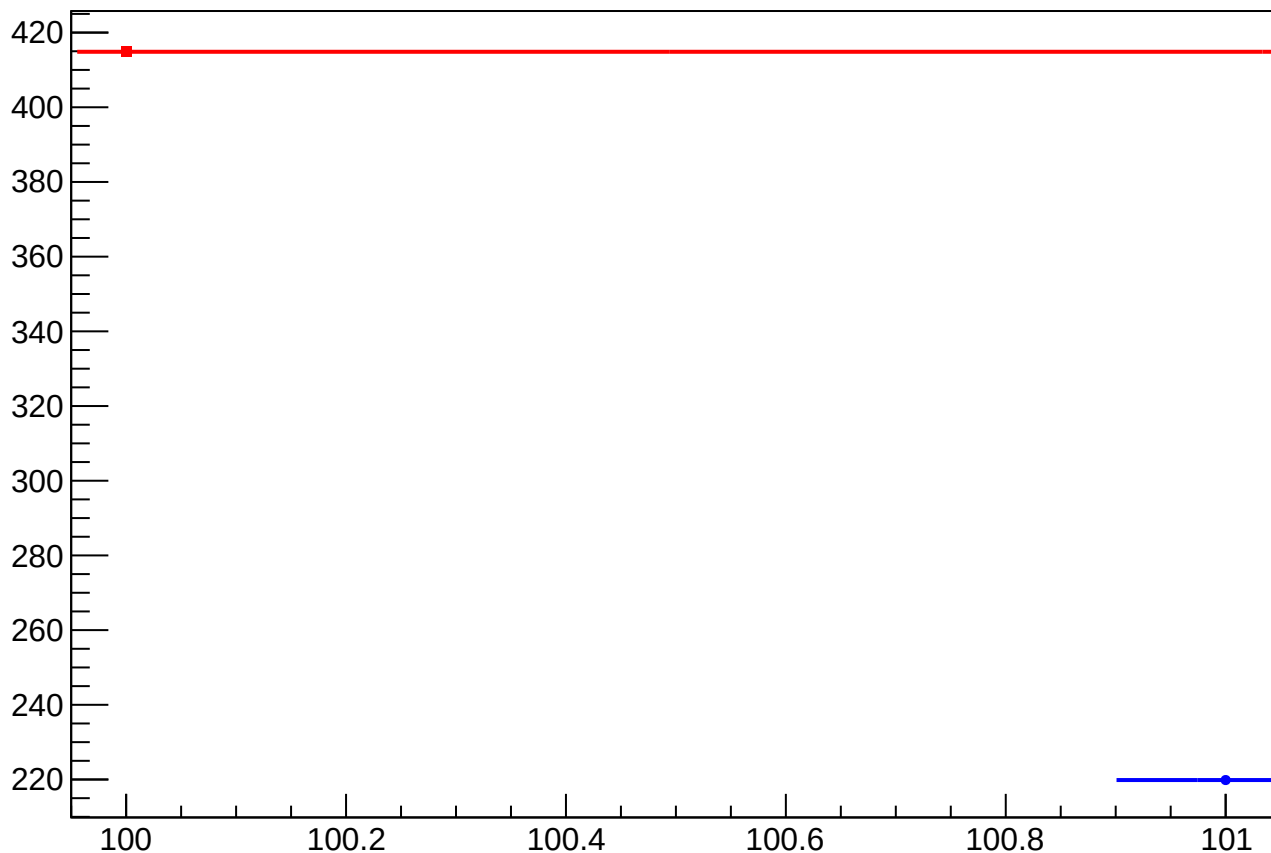
Right: -0.434+/-0.280  $\chi^2/\text{NDF}$ : 3.3/1

In: -0.528+/-0.285  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.434+/-0.280  $\chi^2/\text{NDF}$ : 3.3/1

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 219.853 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 414.859 $\pm$ 1.099  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

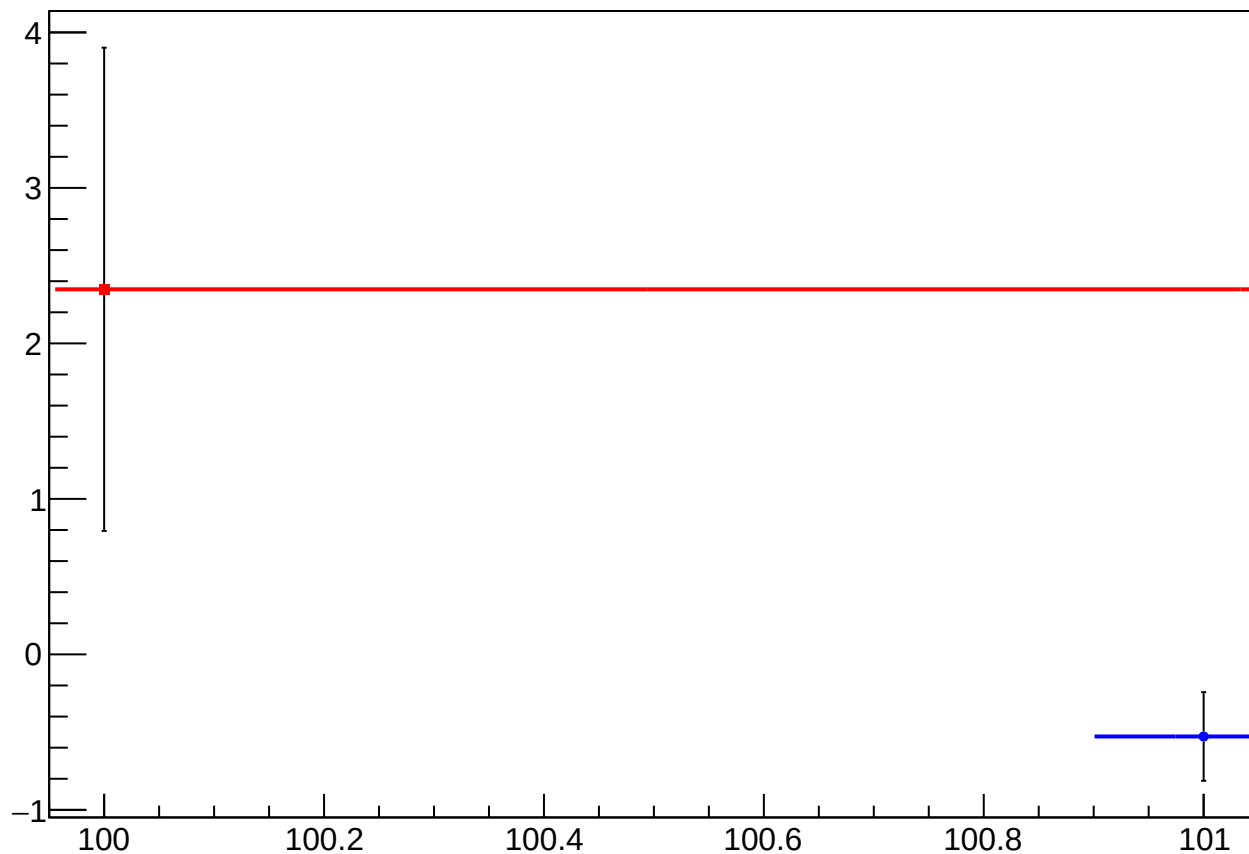
Right: 226.201 $\pm$ 0.198  $\chi^2$ /NDF: 30470.0/1

In: 219.853 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 226.201 $\pm$ 0.198  $\chi^2$ /NDF: 30470.0/1

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.528+/-0.285  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.348+/-1.554  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

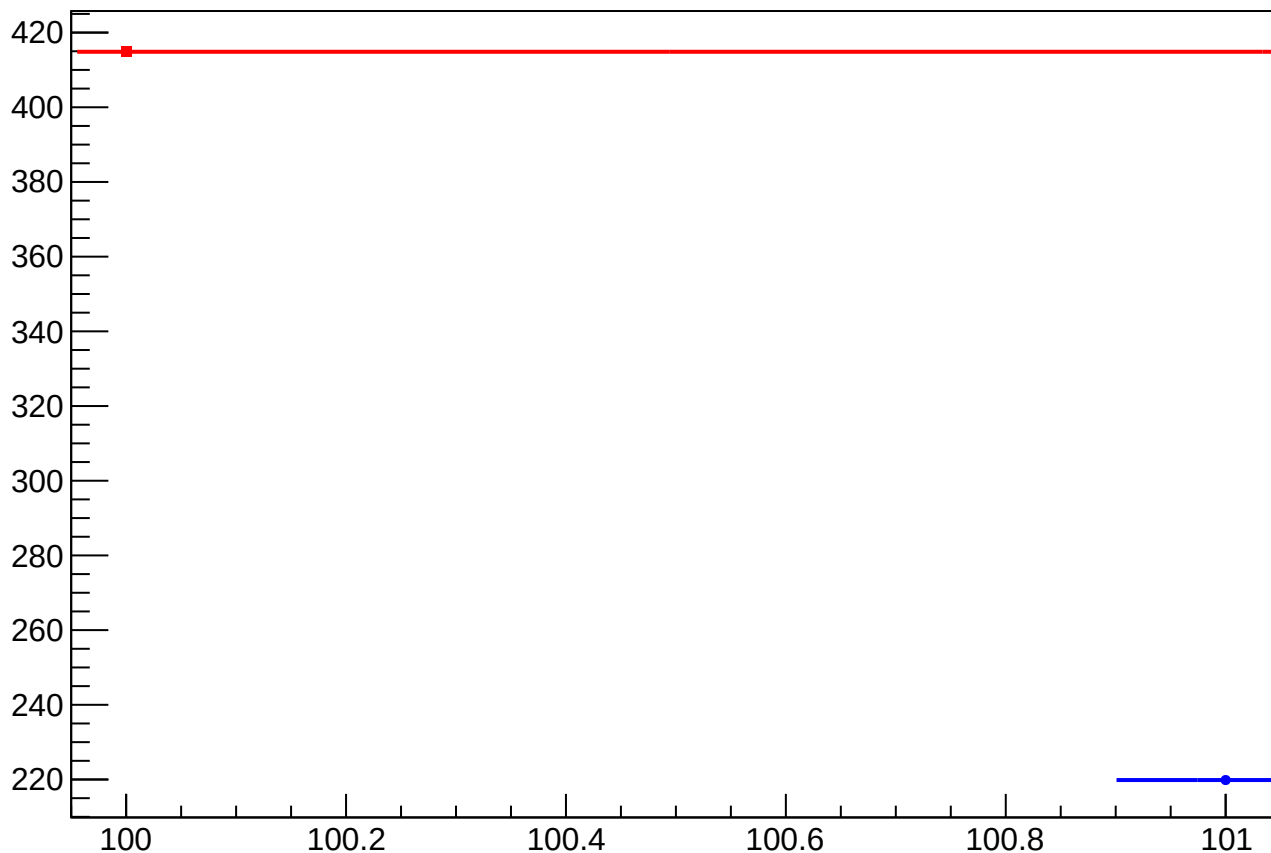
Right: -0.434+/-0.280  $\chi^2/\text{NDF}$ : 3.3/1

In: -0.528+/-0.285  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.434+/-0.280  $\chi^2/\text{NDF}$ : 3.3/1

asym\_atl\_avg\_atr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 219.853 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 414.859 $\pm$ 1.099  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

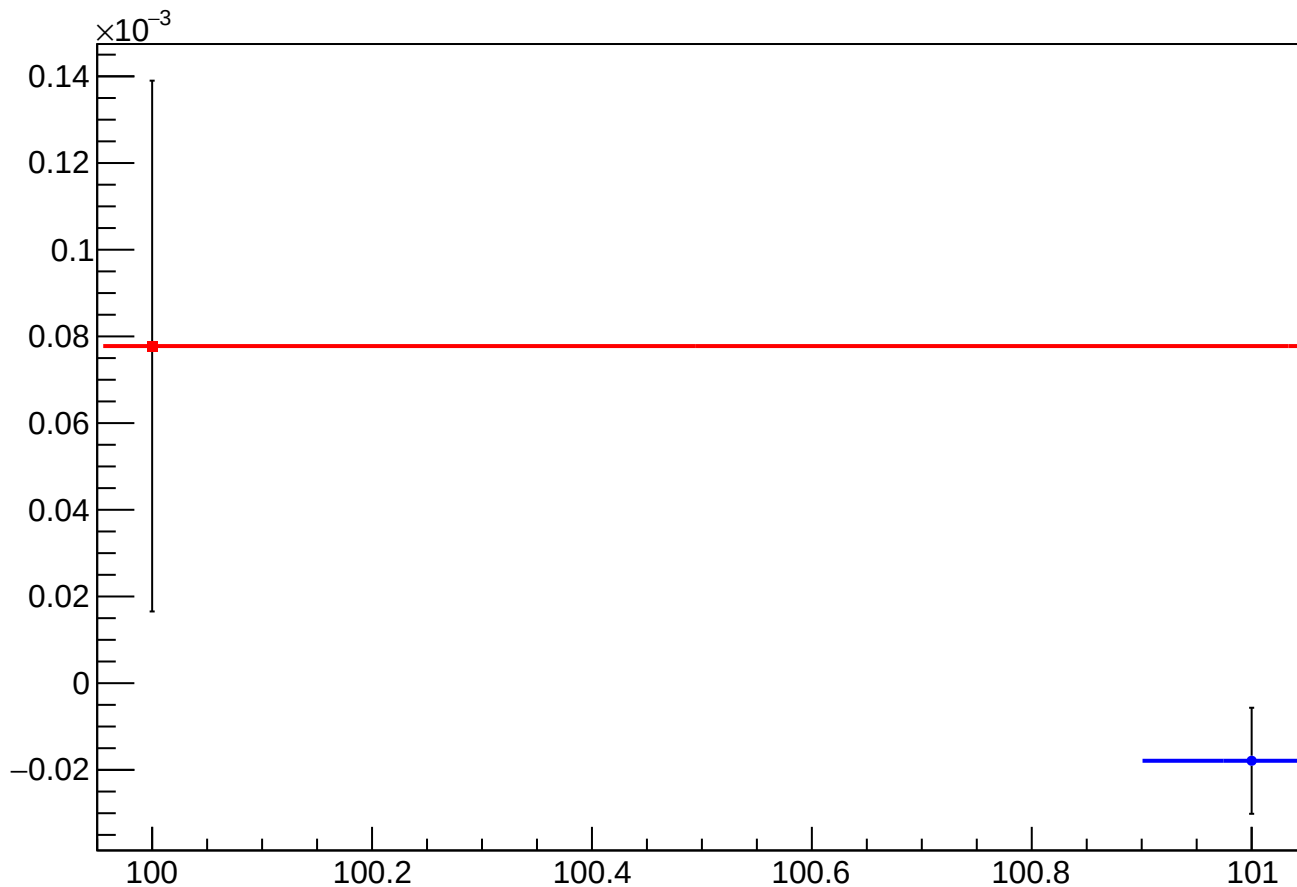
Right: 226.201 $\pm$ 0.198  $\chi^2$ /NDF: 30470.0/1

In: 219.853 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 226.201 $\pm$ 0.198  $\chi^2$ /NDF: 30470.0/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

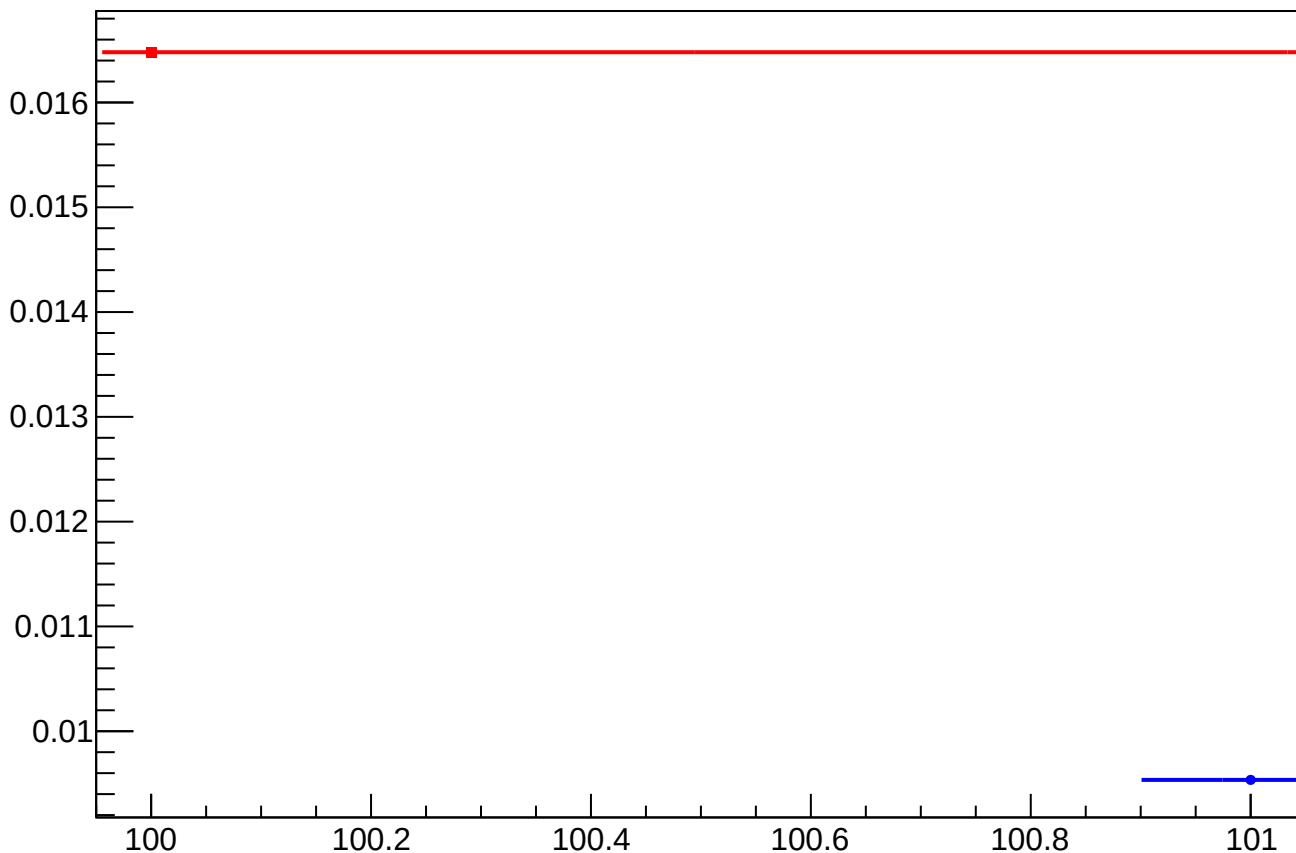
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.3/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

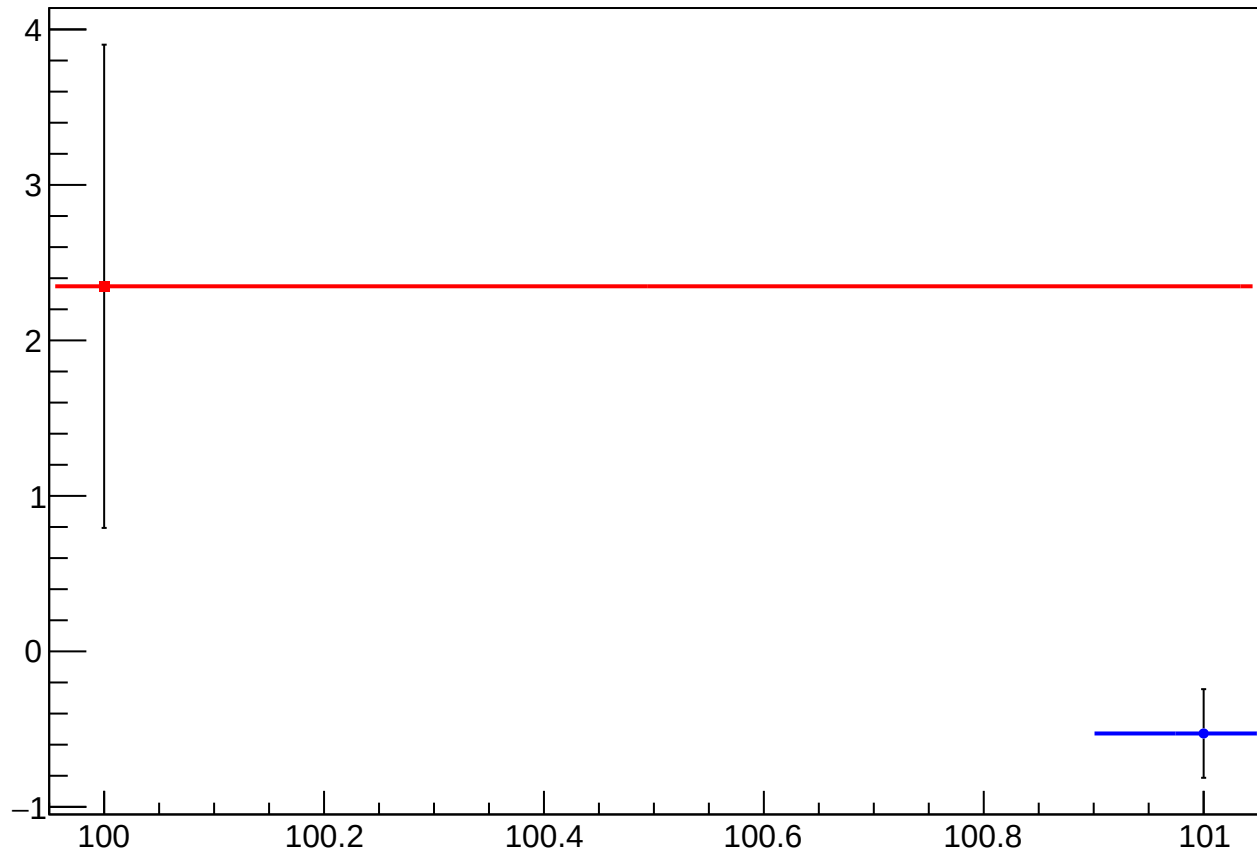
Right: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 24739.5/1

In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 24739.5/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.528 $\pm$ 0.285  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.348 $\pm$ 1.554  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

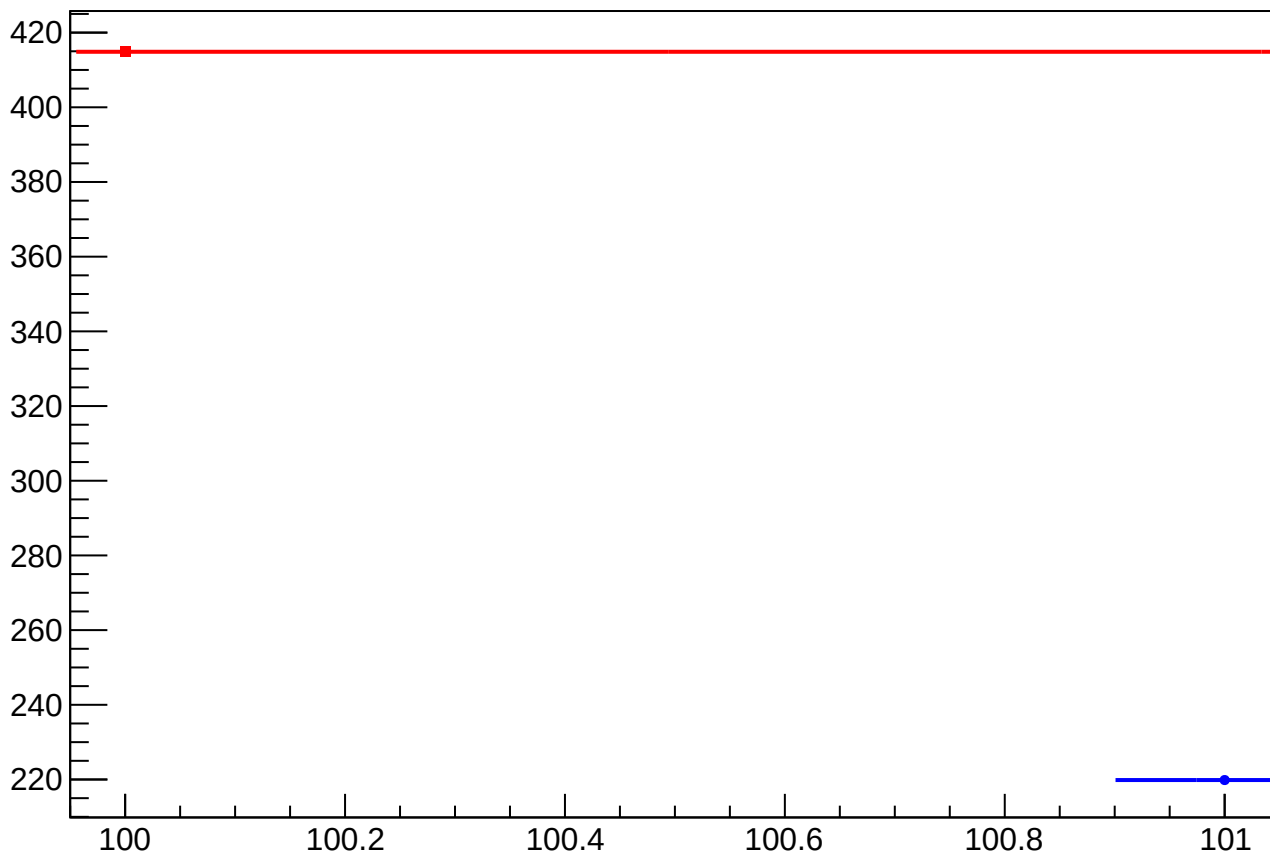
Right: -0.434 $\pm$ 0.280  $\chi^2$ /NDF: 3.3/1

In: -0.528 $\pm$ 0.285  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.434 $\pm$ 0.280  $\chi^2$ /NDF: 3.3/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 219.852 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 414.867 $\pm$ 1.099  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 226.200 $\pm$ 0.198  $\chi^2$ /NDF: 30471.6/1

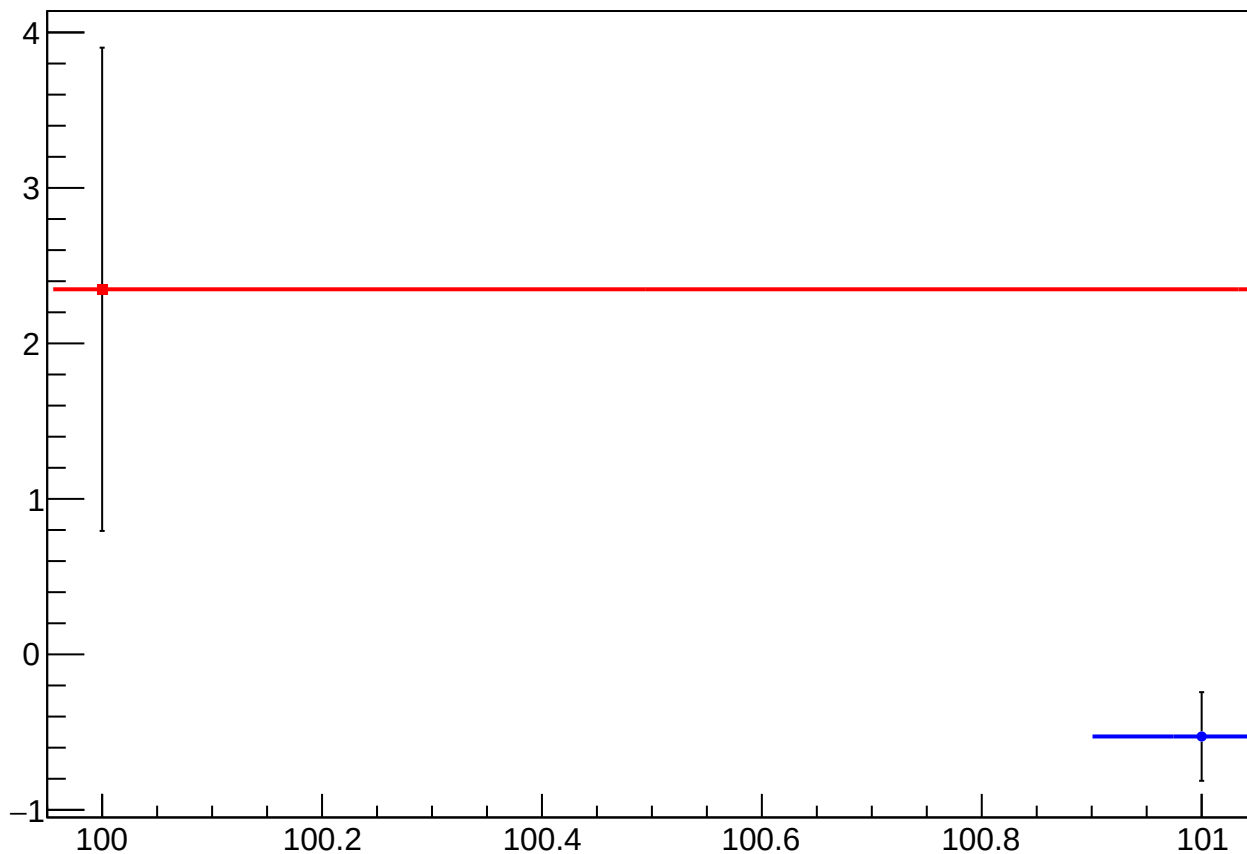
In: 219.852 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 226.200 $\pm$ 0.198  $\chi^2$ /NDF: 30471.6/1



asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.528+/-0.285  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.348+/-1.554  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

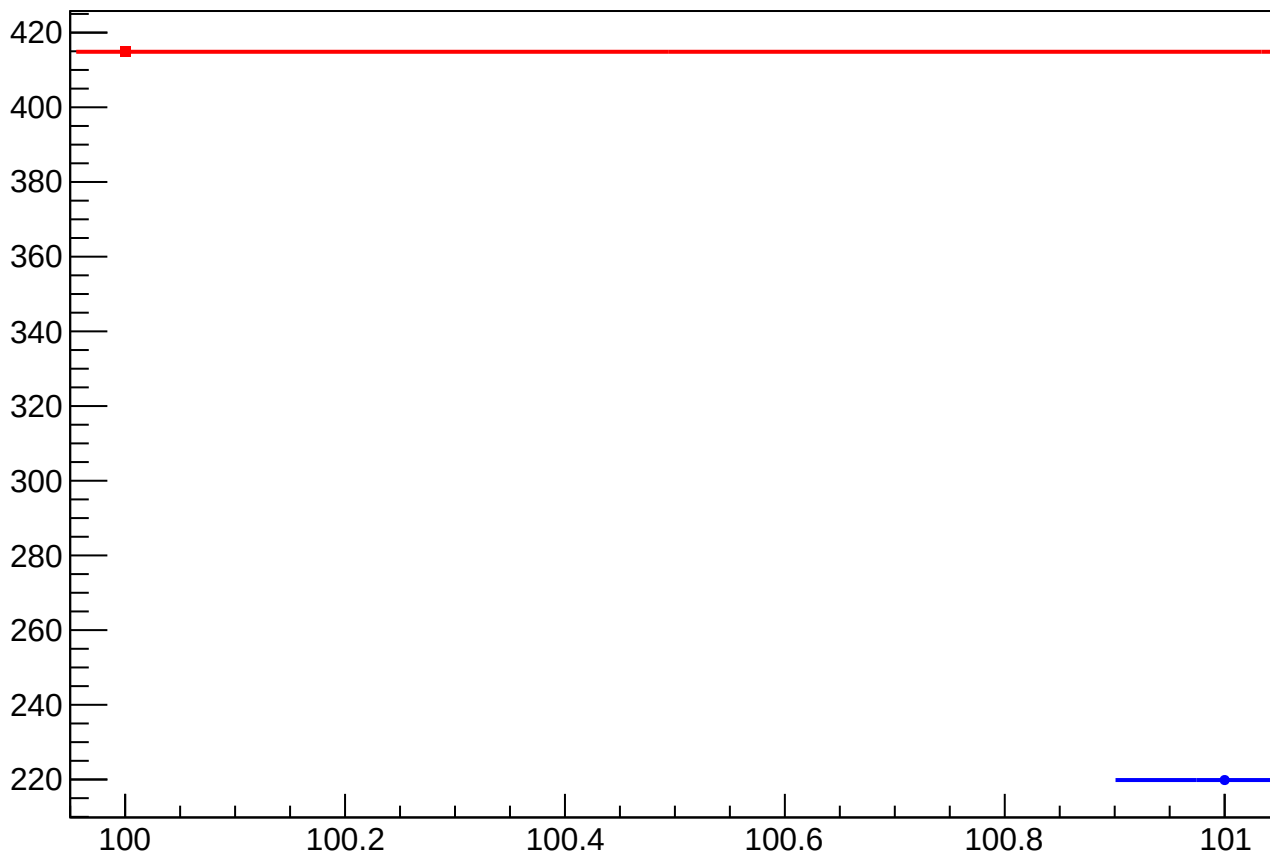
Right: -0.434+/-0.280  $\chi^2/\text{NDF}$ : 3.3/1

In: -0.528+/-0.285  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.434+/-0.280  $\chi^2/\text{NDF}$ : 3.3/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 219.852 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 414.867 $\pm$ 1.099  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

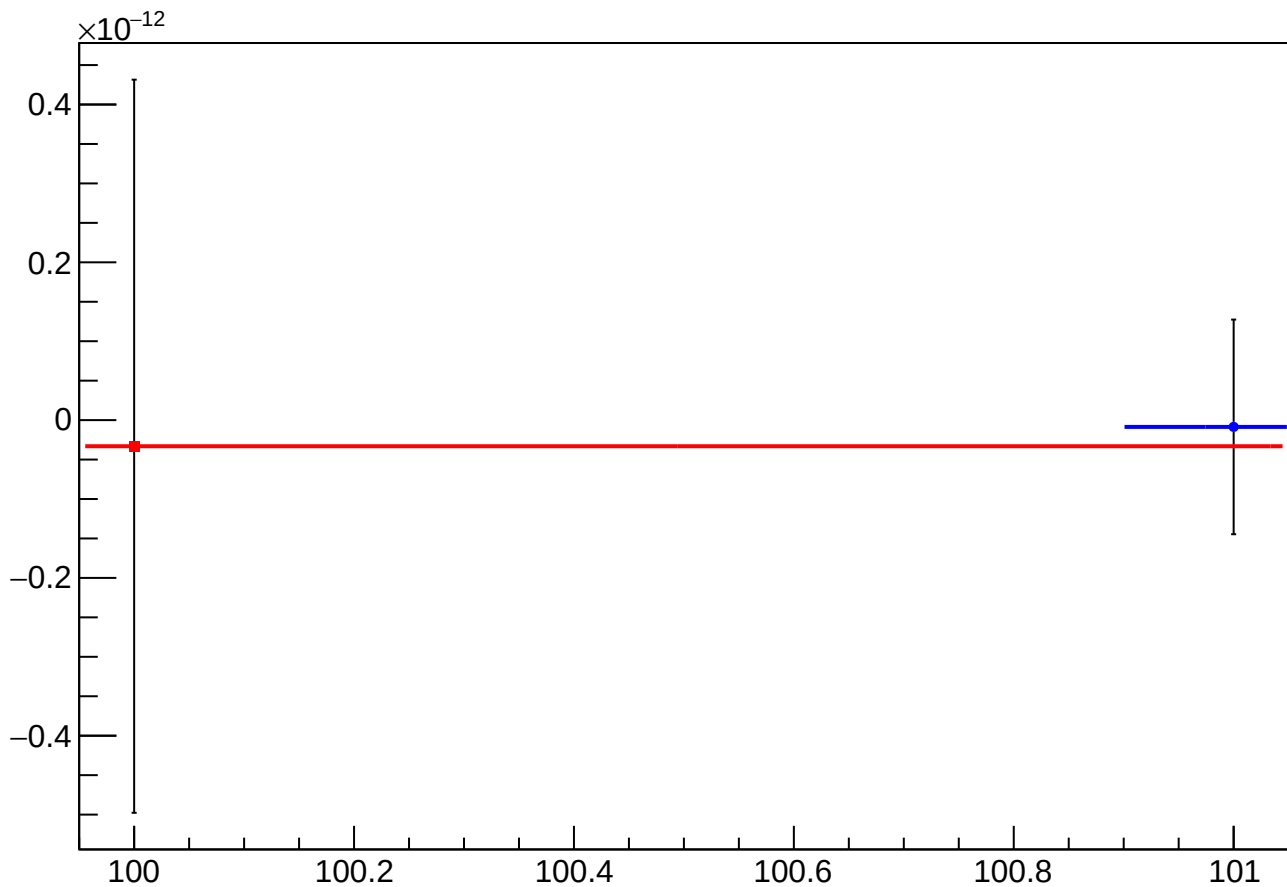
Right: 226.200 $\pm$ 0.198  $\chi^2$ /NDF: 30471.6/1

In: 219.852 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 226.200 $\pm$ 0.198  $\chi^2$ /NDF: 30471.6/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

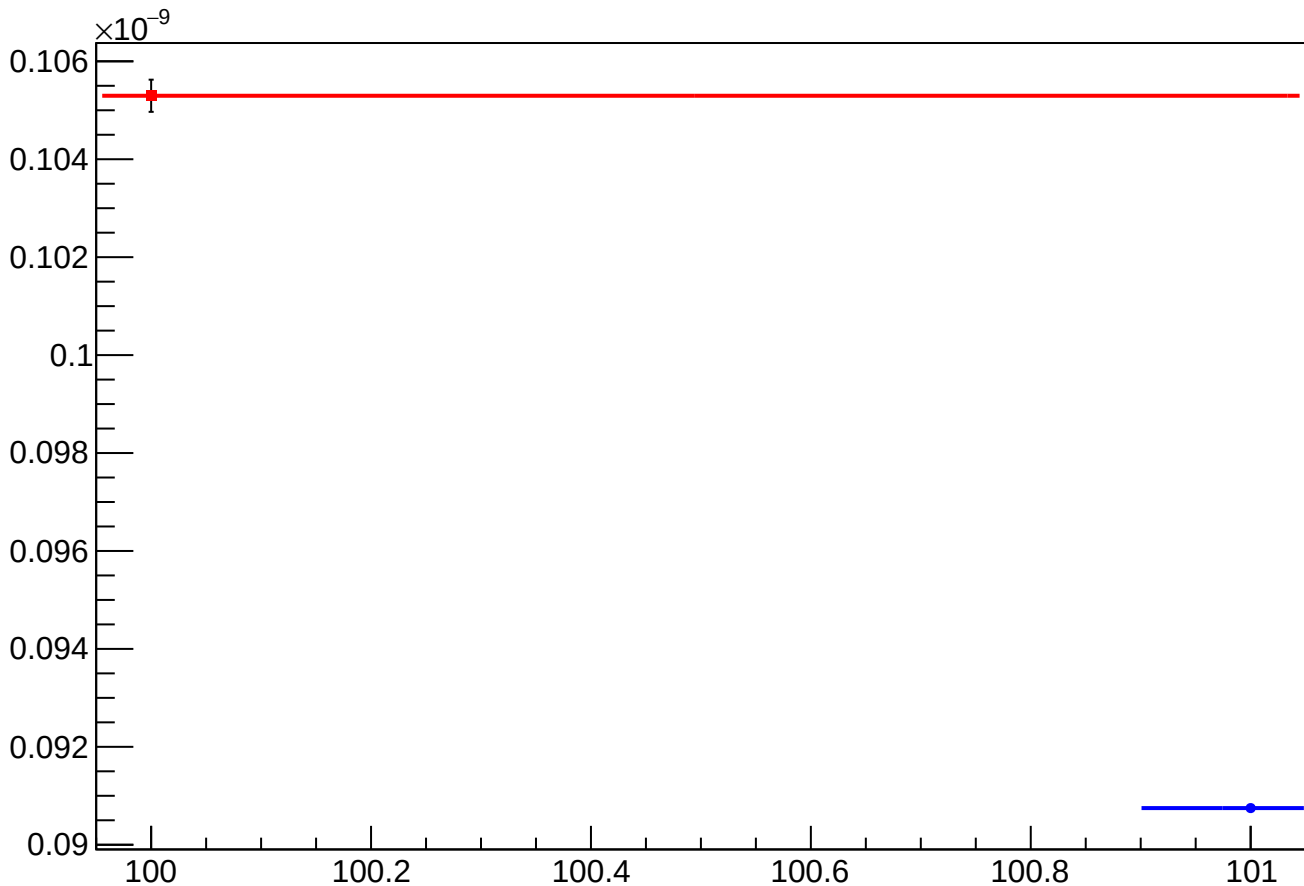
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

asym\_atl\_avg\_atr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

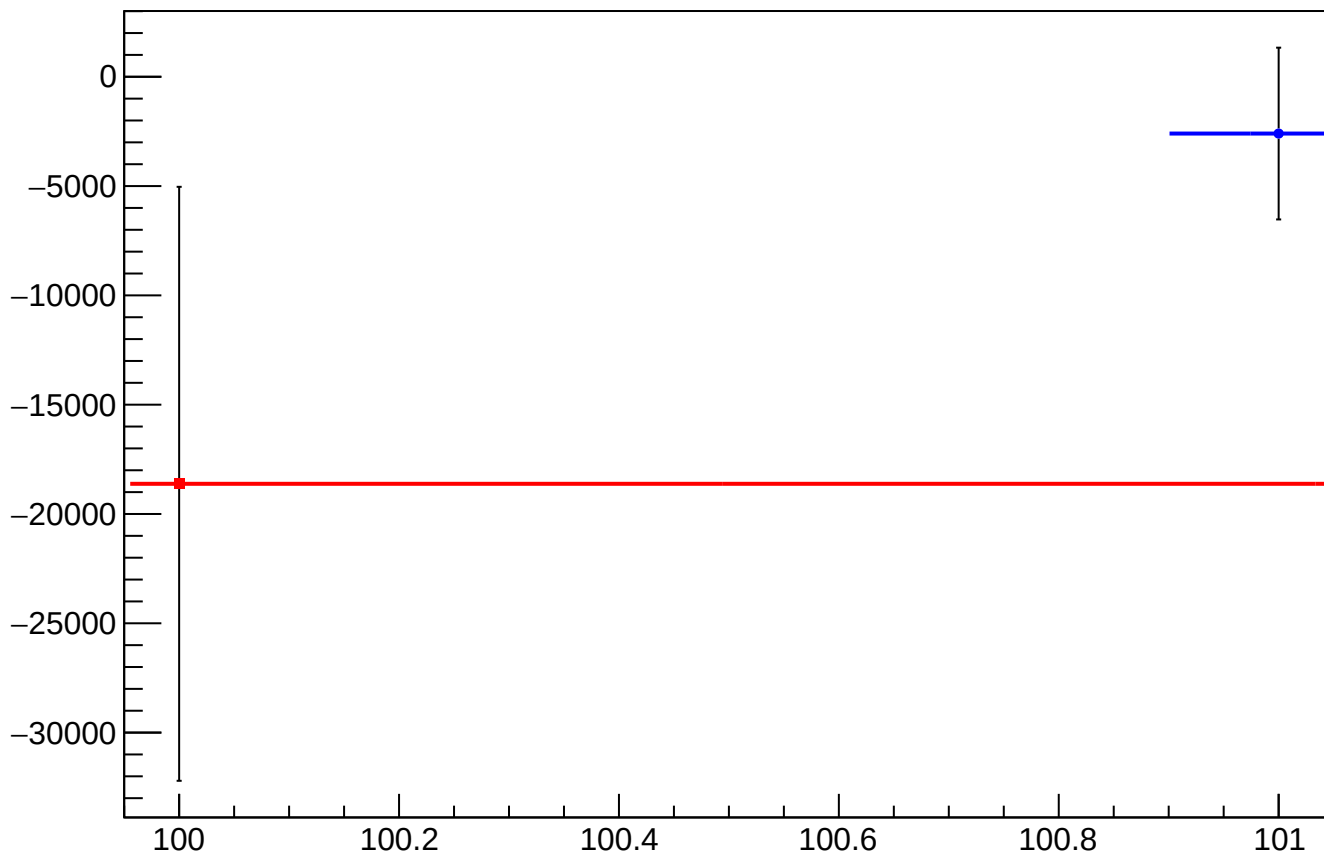
Right: 0.000+/-0.000  $\chi^2$ /NDF: 1806.1/1

In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 1806.1/1

reg\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -2597.701+/-3928.663  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18619.671+/-13585.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

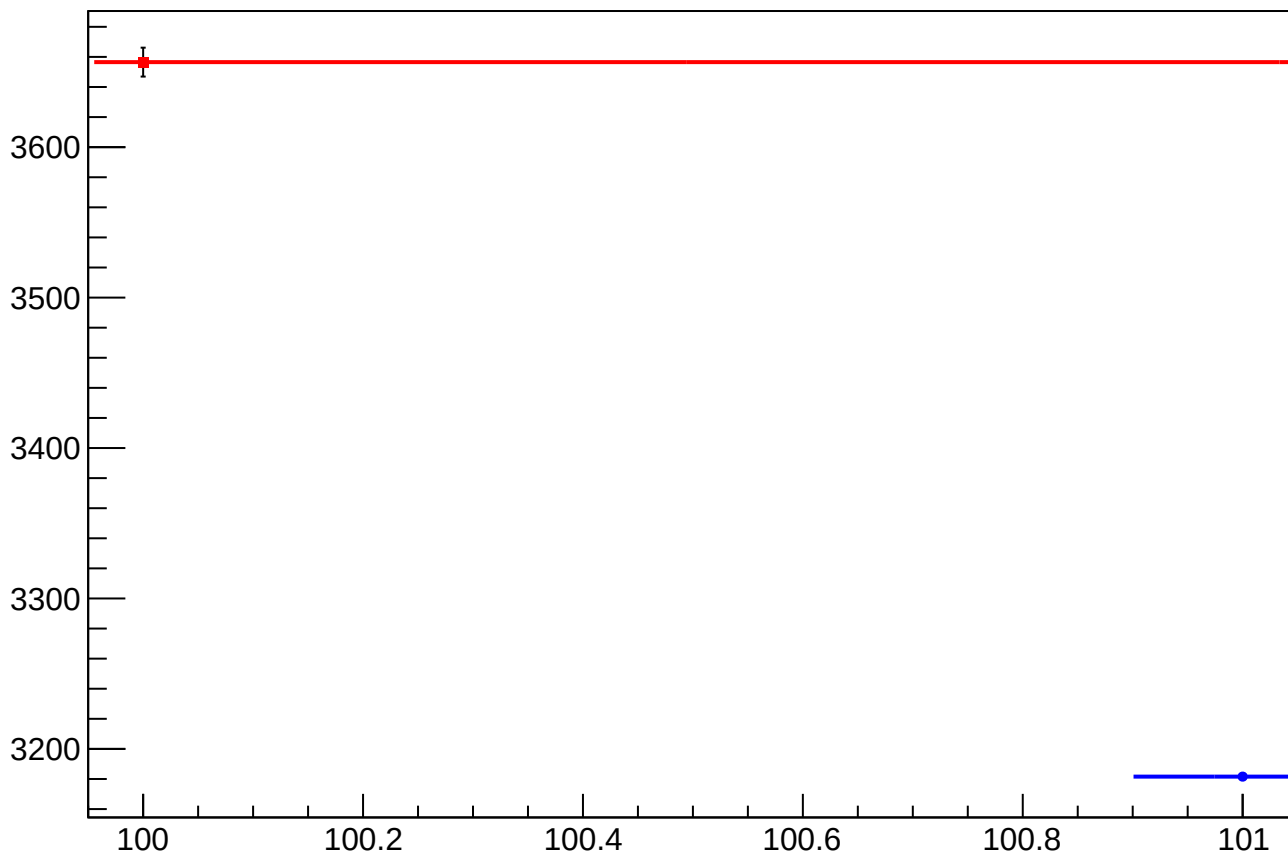
Right: -3834.167+/-3774.026  $\chi^2/\text{NDF}$ : 1.3/1

In: -2597.701+/-3928.663  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3834.167+/-3774.026  $\chi^2/\text{NDF}$ : 1.3/1

reg\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3181.574 $\pm$ 2.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3656.534 $\pm$ 9.606  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

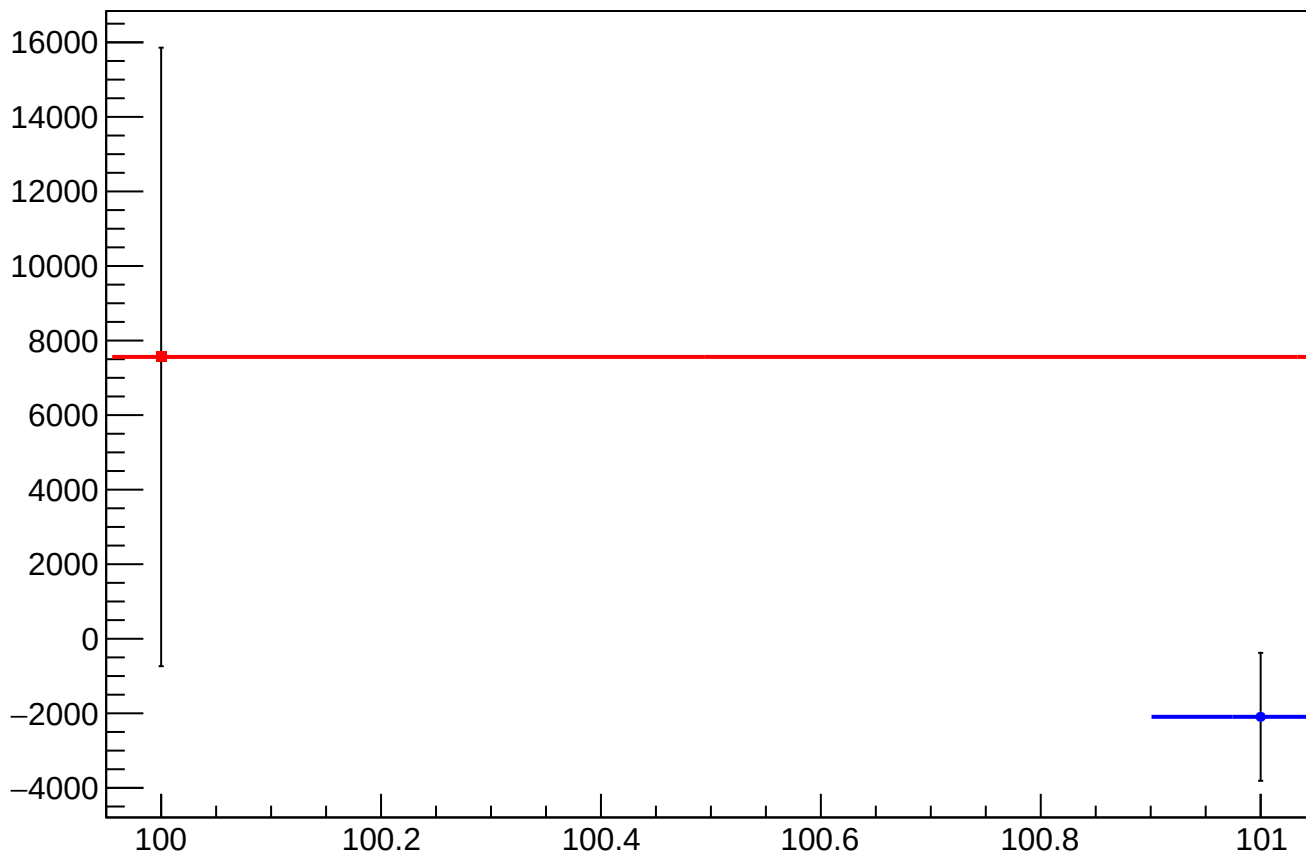
Right: 3218.228 $\pm$ 2.669  $\chi^2/\text{NDF}$ : 2255.9/1

In: 3181.574 $\pm$ 2.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3218.228 $\pm$ 2.669  $\chi^2/\text{NDF}$ : 2255.9/1

asym\_atl\_avg\_atr\_avg\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -2093.988+/-1716.175  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7560.736+/-8296.075  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

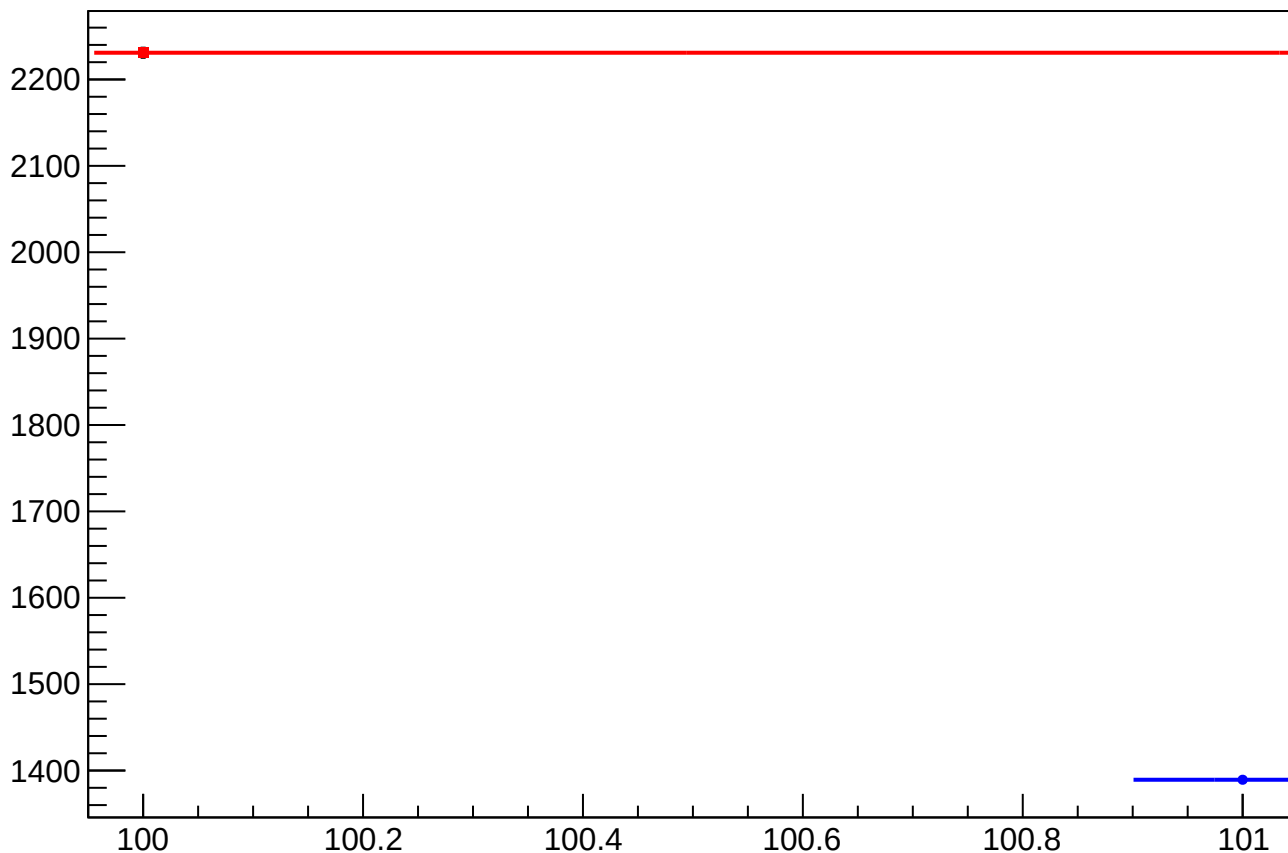
Right: -1697.784+/-1680.592  $\chi^2$ /NDF: 1.3/1

In: -2093.988+/-1716.175  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1697.784+/-1680.592  $\chi^2$ /NDF: 1.3/1

asym\_atl\_avg\_atr\_avg\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1389.328+/-1.214  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2230.944+/-5.866  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1423.866+/-1.188  $\chi^2/\text{NDF}$ : 19738.5/1

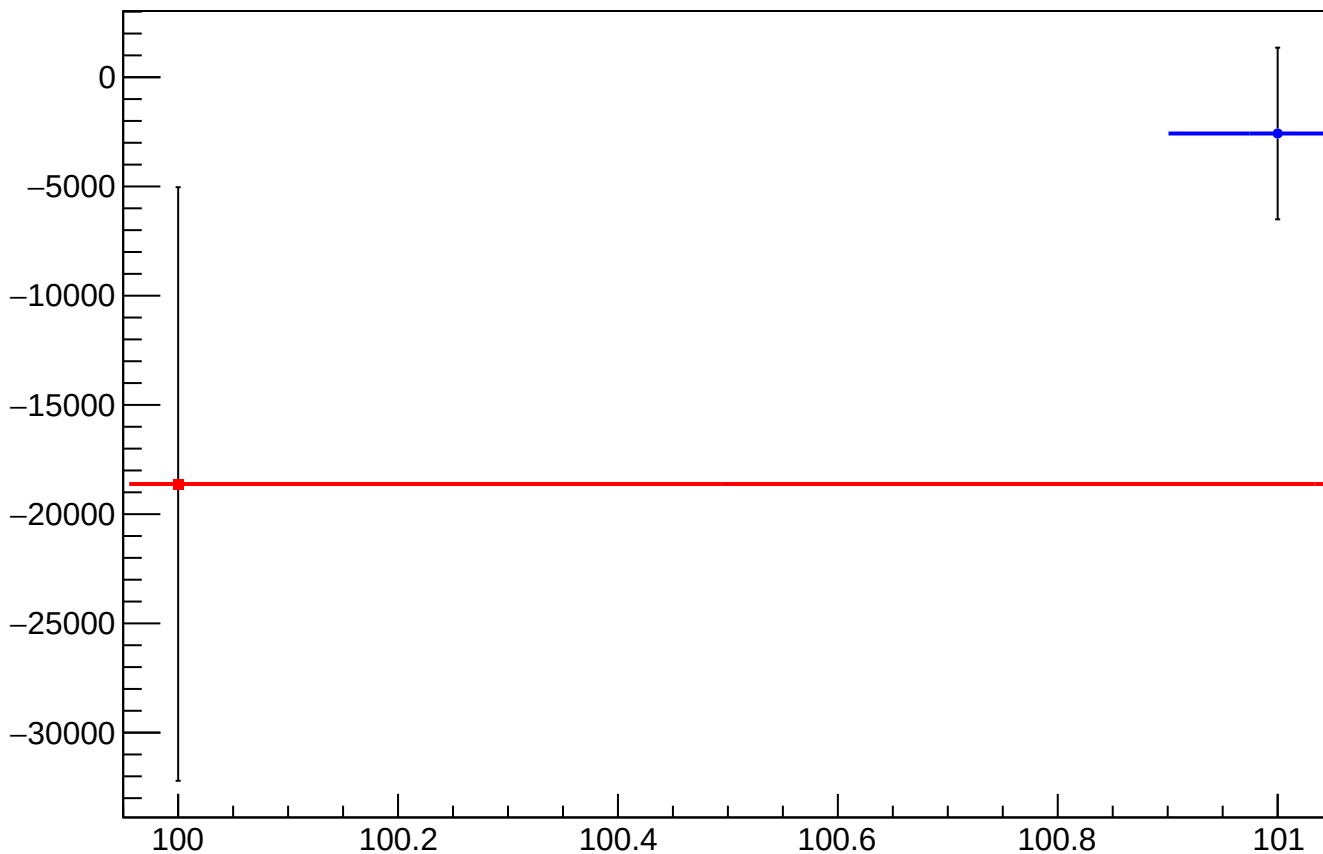
In: 1389.328+/-1.214  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1423.866+/-1.188  $\chi^2/\text{NDF}$ : 19738.5/1



cor\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -2575.603+/-3928.683  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18619.608+/-13585.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

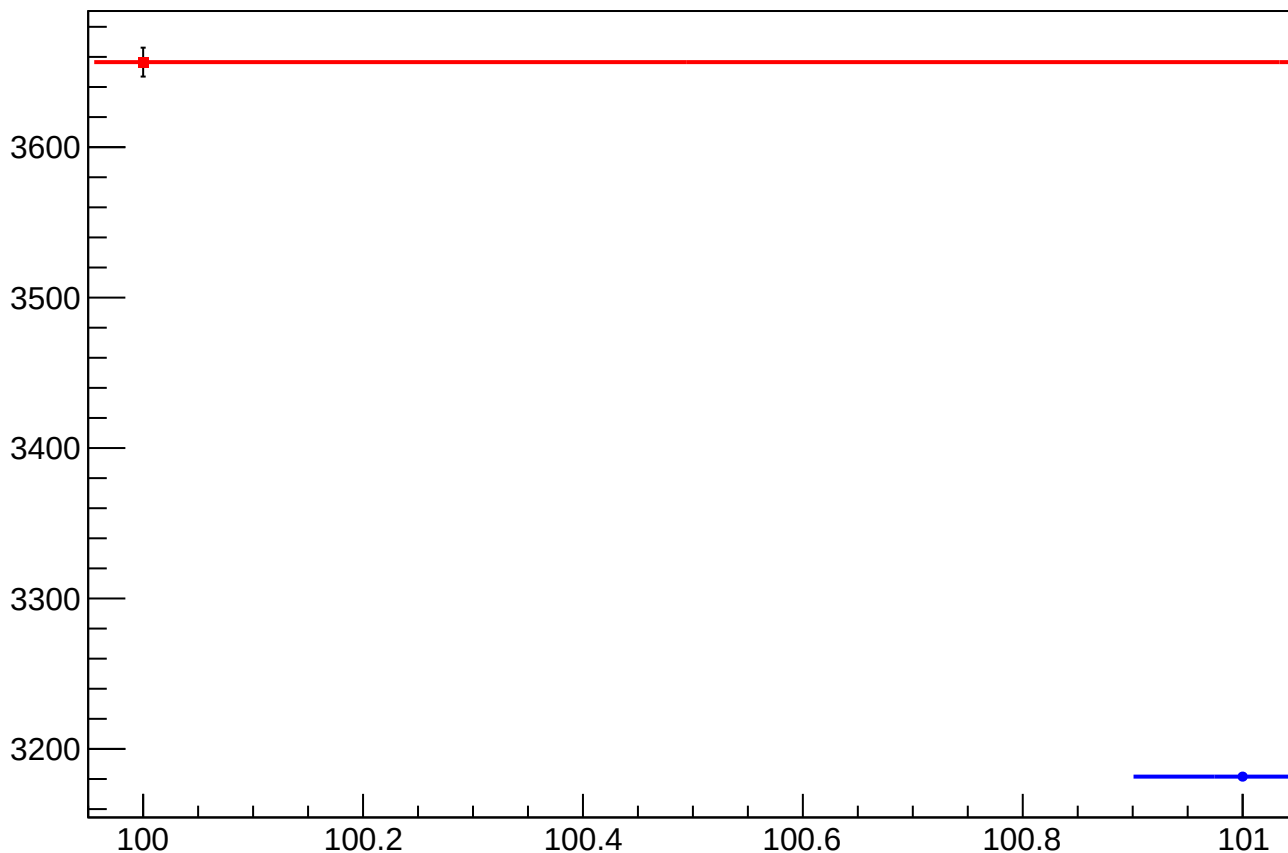
Right: -3813.780+/-3774.044  $\chi^2/\text{NDF}$ : 1.3/1

In: -2575.603+/-3928.683  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3813.780+/-3774.044  $\chi^2/\text{NDF}$ : 1.3/1

cor\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3181.586 $\pm$ 2.778  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3656.534 $\pm$ 9.606  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

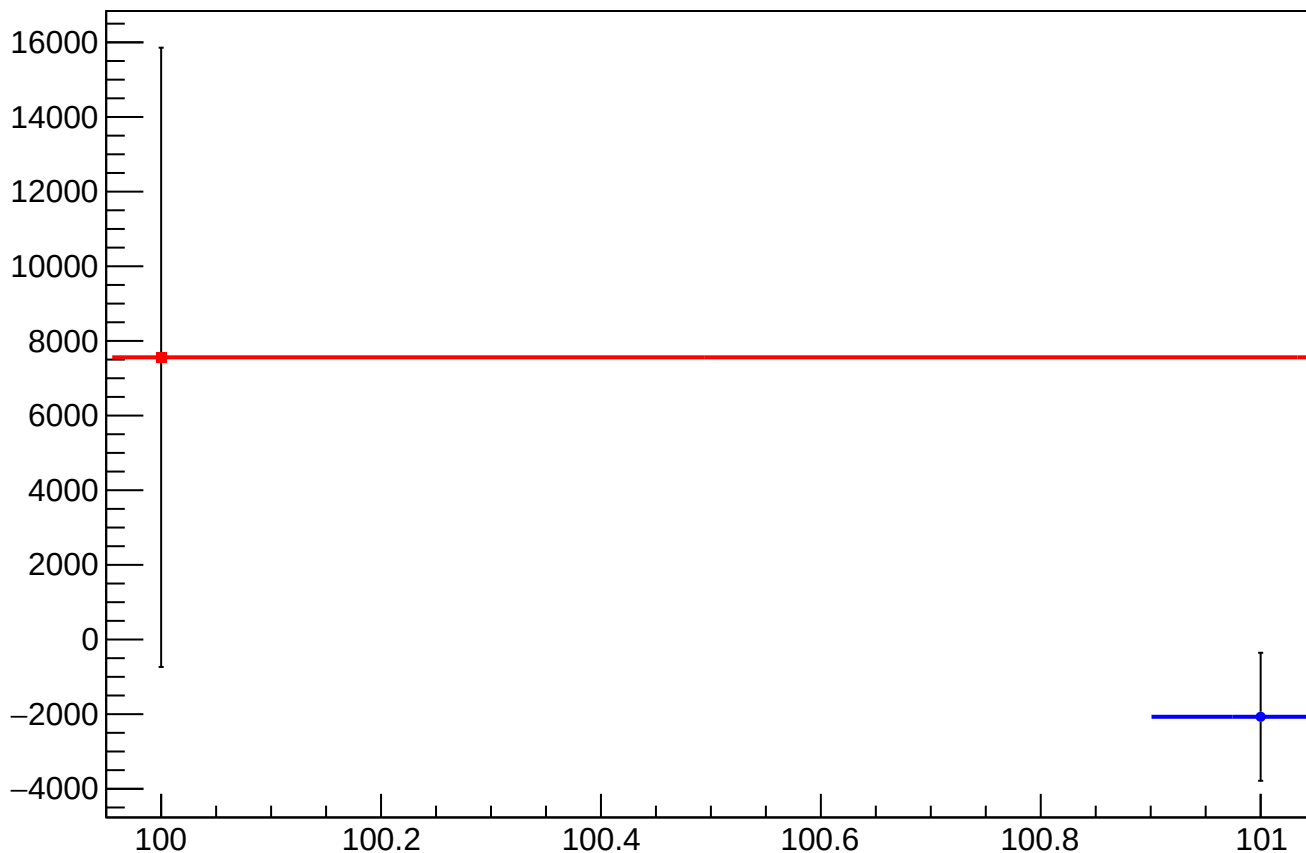
Right: 3218.239 $\pm$ 2.669  $\chi^2$ /NDF: 2255.8/1

In: 3181.586 $\pm$ 2.778  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3218.239 $\pm$ 2.669  $\chi^2$ /NDF: 2255.8/1

asym\_atl\_avg\_atr\_avg\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2070.192+/-1715.004  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7560.796+/-8296.086  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

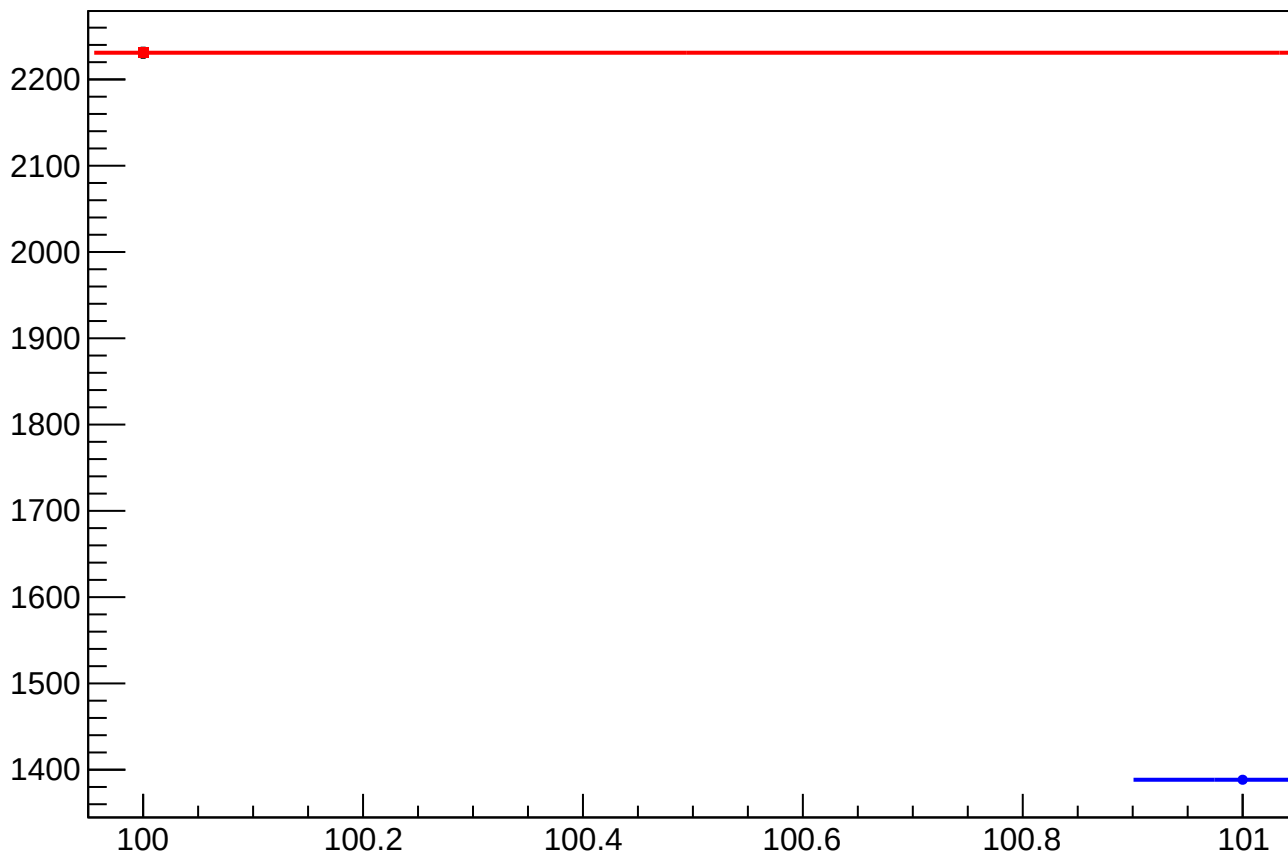
Right: -1675.480+/-1679.493  $\chi^2$ /NDF: 1.3/1

In: -2070.192+/-1715.004  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1675.480+/-1679.493  $\chi^2$ /NDF: 1.3/1

asym\_atl\_avg\_atr\_avg\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1388.367 $\pm$ 1.213  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2230.946 $\pm$ 5.866  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

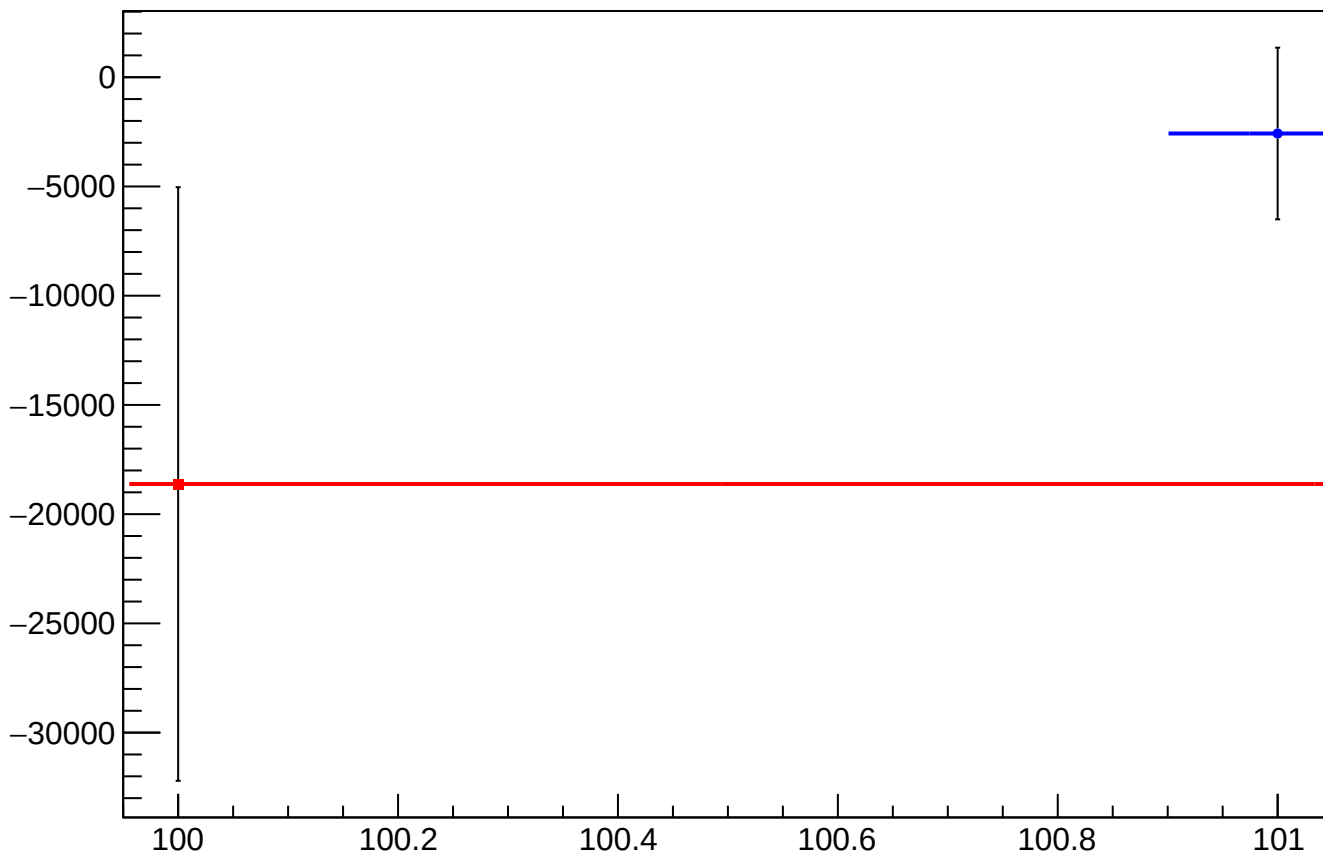
Right: 1422.899 $\pm$ 1.188  $\chi^2$ /NDF: 19784.8/1

In: 1388.367 $\pm$ 1.213  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1422.899 $\pm$ 1.188  $\chi^2$ /NDF: 19784.8/1

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -2575.603+/-3928.683  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18619.608+/-13585.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

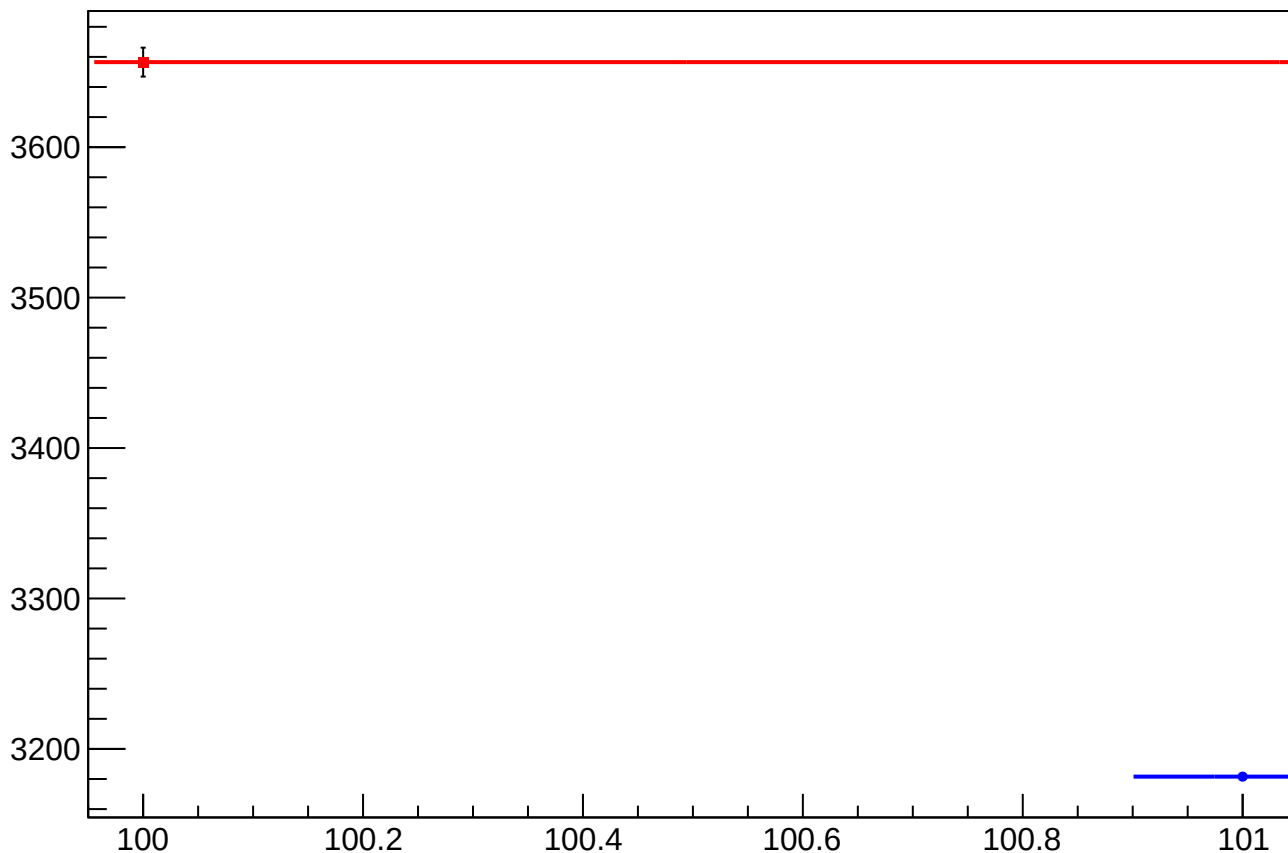
Right: -3813.780+/-3774.044  $\chi^2/\text{NDF}$ : 1.3/1

In: -2575.603+/-3928.683  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3813.780+/-3774.044  $\chi^2/\text{NDF}$ : 1.3/1

eigen\_cor\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3181.586+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3656.534+/-9.606  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

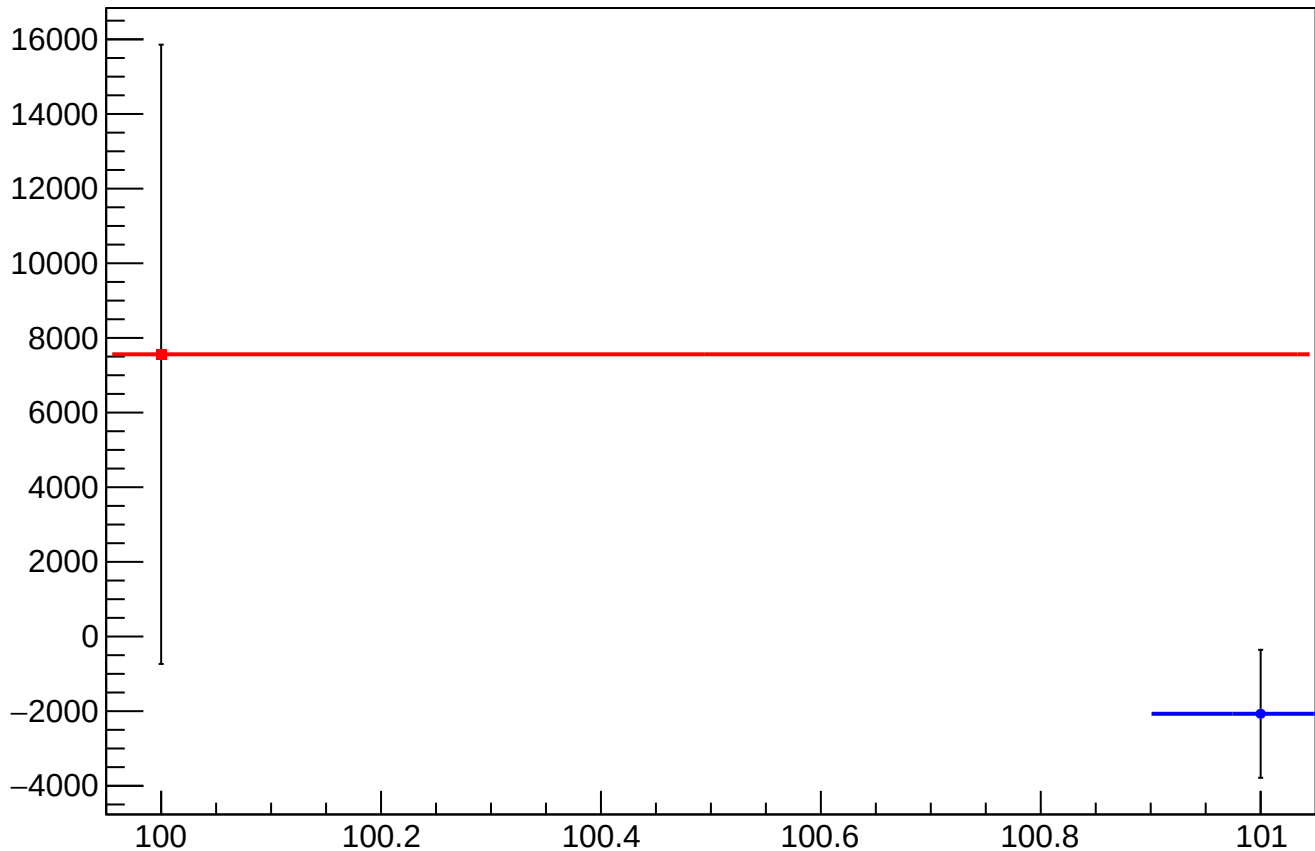
Right: 3218.239+/-2.669  $\chi^2/\text{NDF}$ : 2255.8/1

In: 3181.586+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3218.239+/-2.669  $\chi^2/\text{NDF}$ : 2255.8/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2070.192+/-1715.004  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7560.796+/-8296.086  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

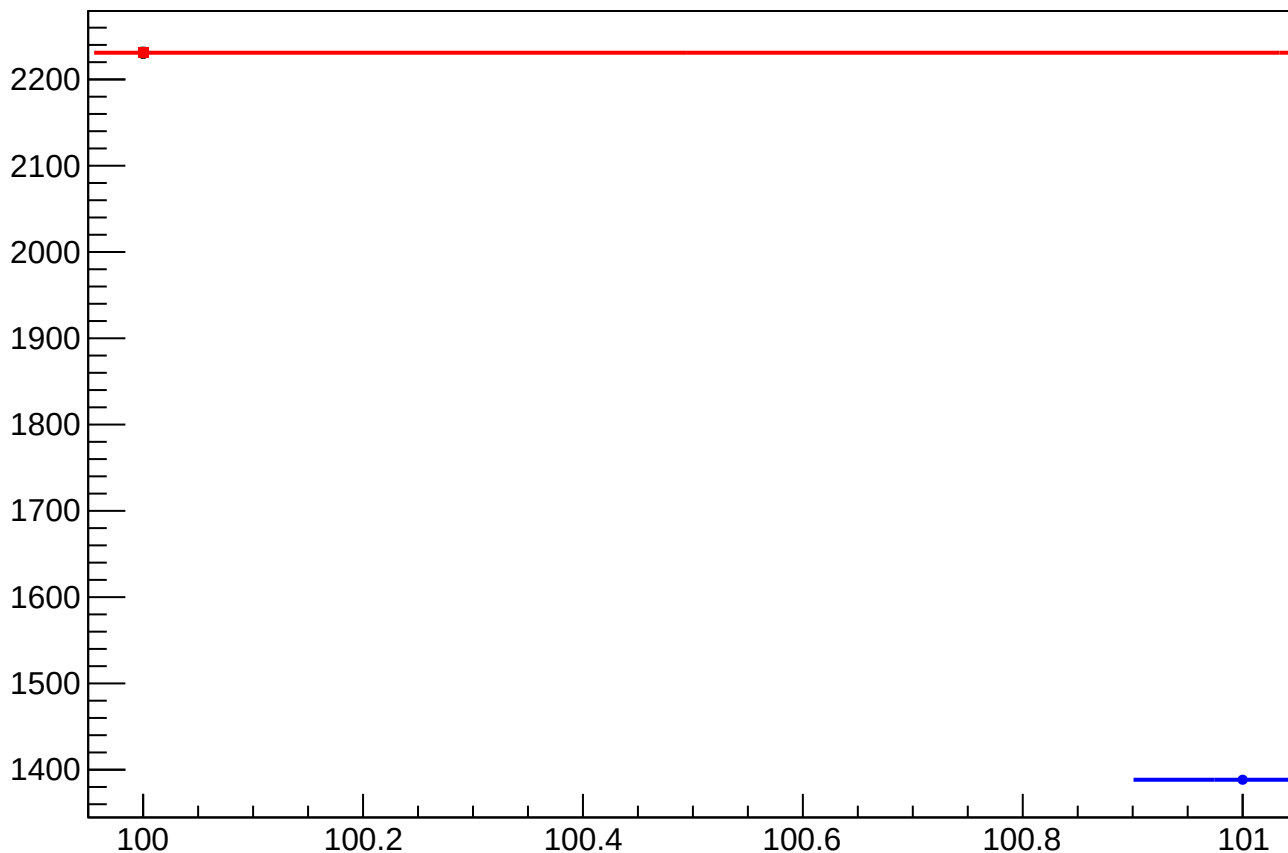
Right: -1675.480+/-1679.493  $\chi^2$ /NDF: 1.3/1

In: -2070.192+/-1715.004  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -1675.480+/-1679.493  $\chi^2$ /NDF: 1.3/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1388.367 $\pm$ 1.213  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2230.946 $\pm$ 5.866  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1422.899 $\pm$ 1.188  $\chi^2$ /NDF: 19784.8/1

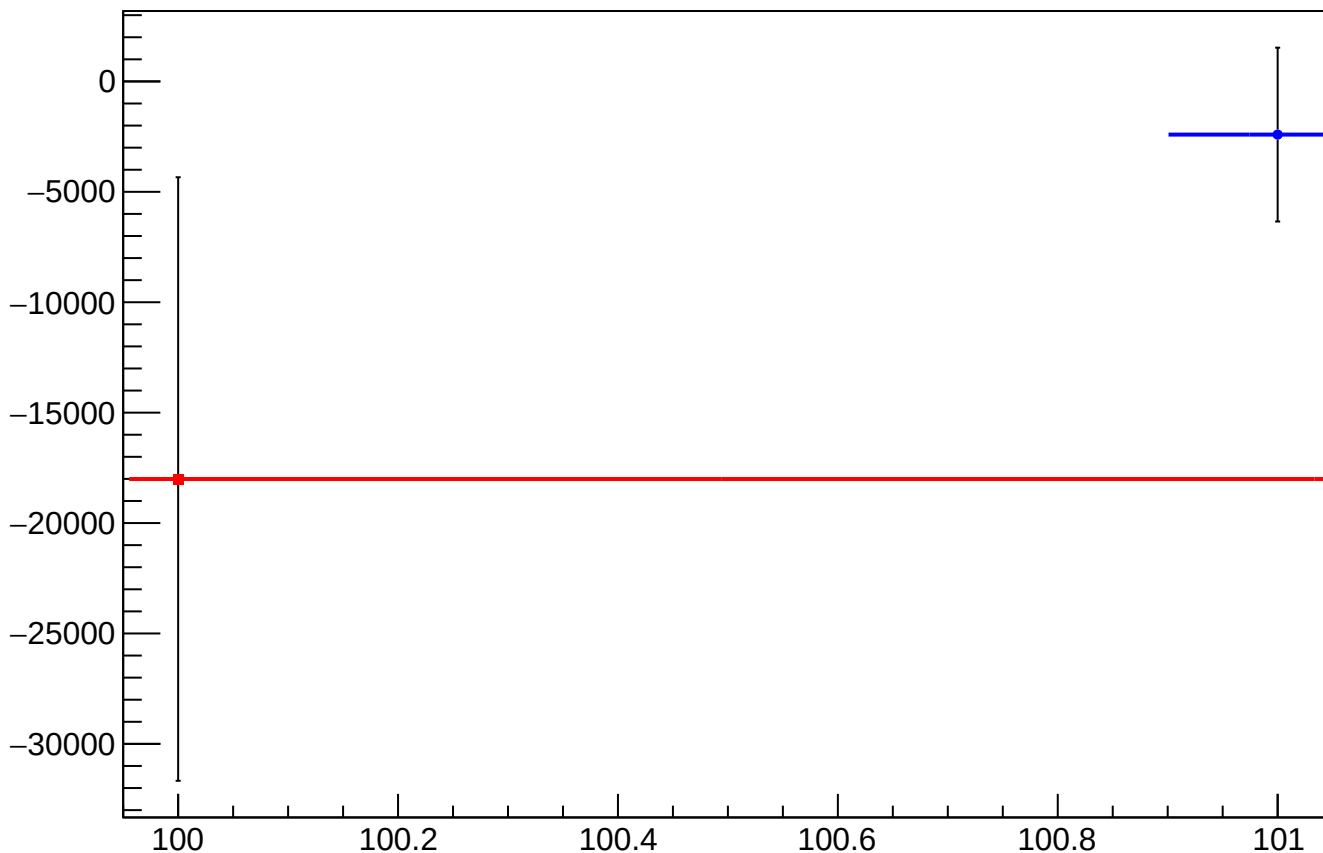
In: 1388.367 $\pm$ 1.213  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1422.899 $\pm$ 1.188  $\chi^2$ /NDF: 19784.8/1



dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -2408.047+/-3936.217  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18005.574+/-13666.340  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

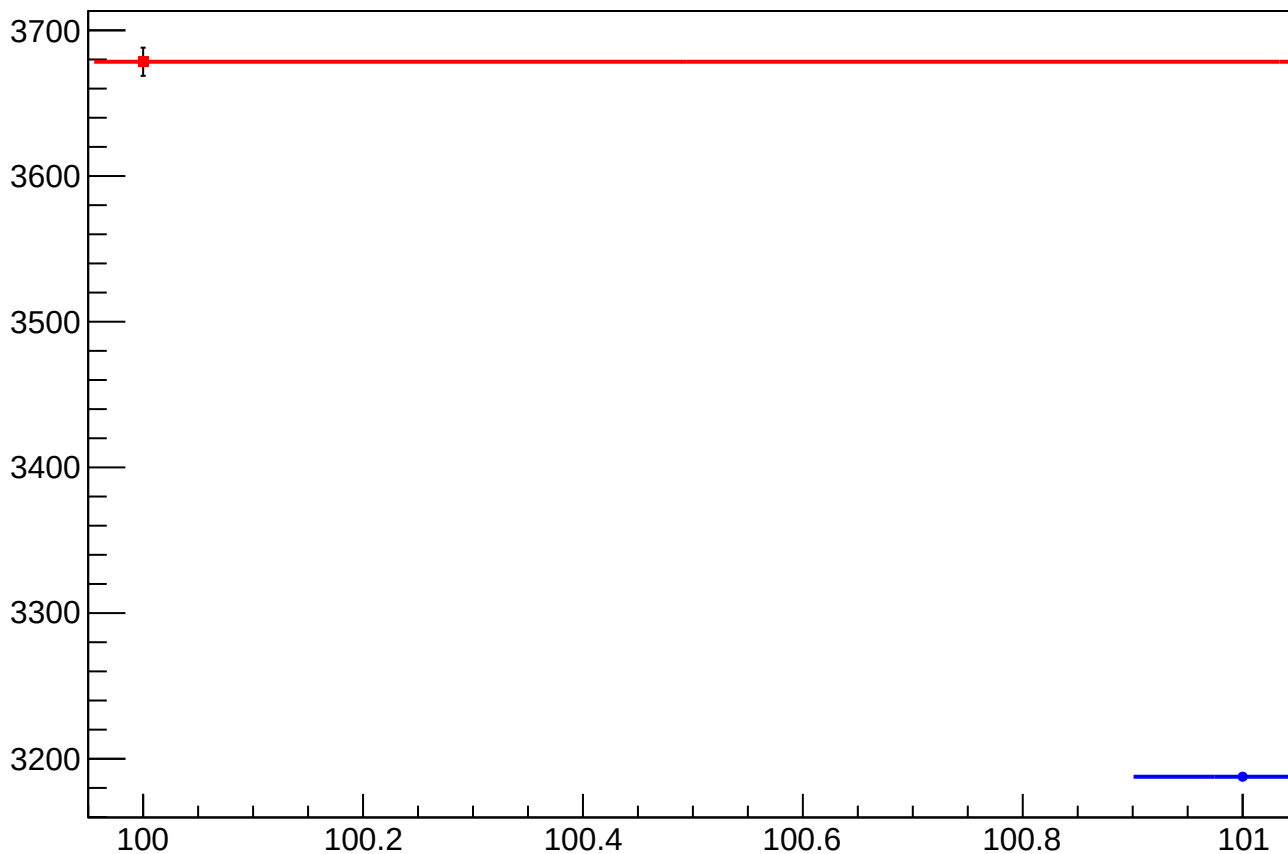
Right: -3602.855+/-3782.452  $\chi^2/\text{NDF}$ : 1.2/1

In: -2408.047+/-3936.217  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3602.855+/-3782.452  $\chi^2/\text{NDF}$ : 1.2/1

dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3187.676 $\pm$ 2.783  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3678.435 $\pm$ 9.664  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

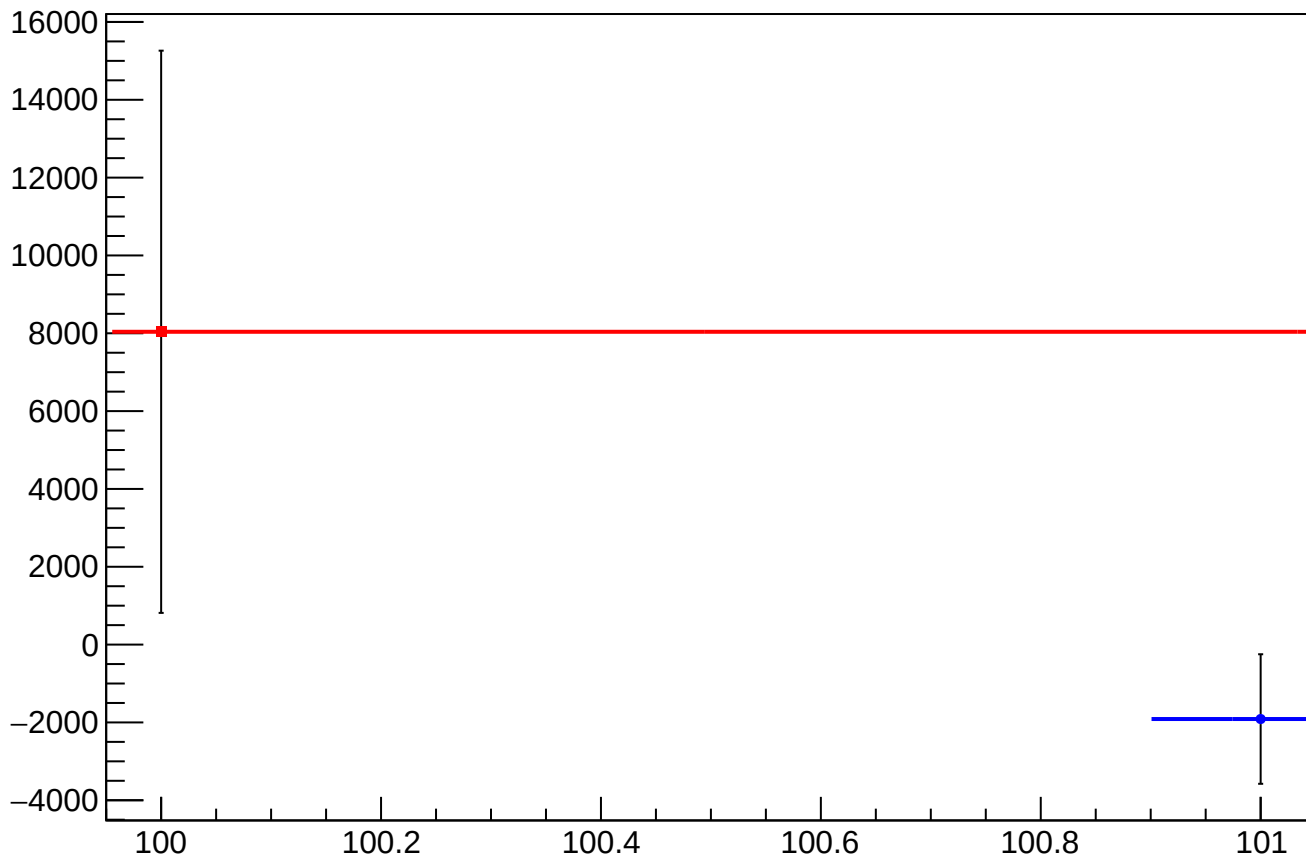
Right: 3225.269 $\pm$ 2.675  $\chi^2$ /NDF: 2381.5/1

In: 3187.676 $\pm$ 2.783  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3225.269 $\pm$ 2.675  $\chi^2$ /NDF: 2381.5/1

asym\_atl\_avg\_atr\_avg\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1912.609+/-1664.531  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8038.400+/-7223.741  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

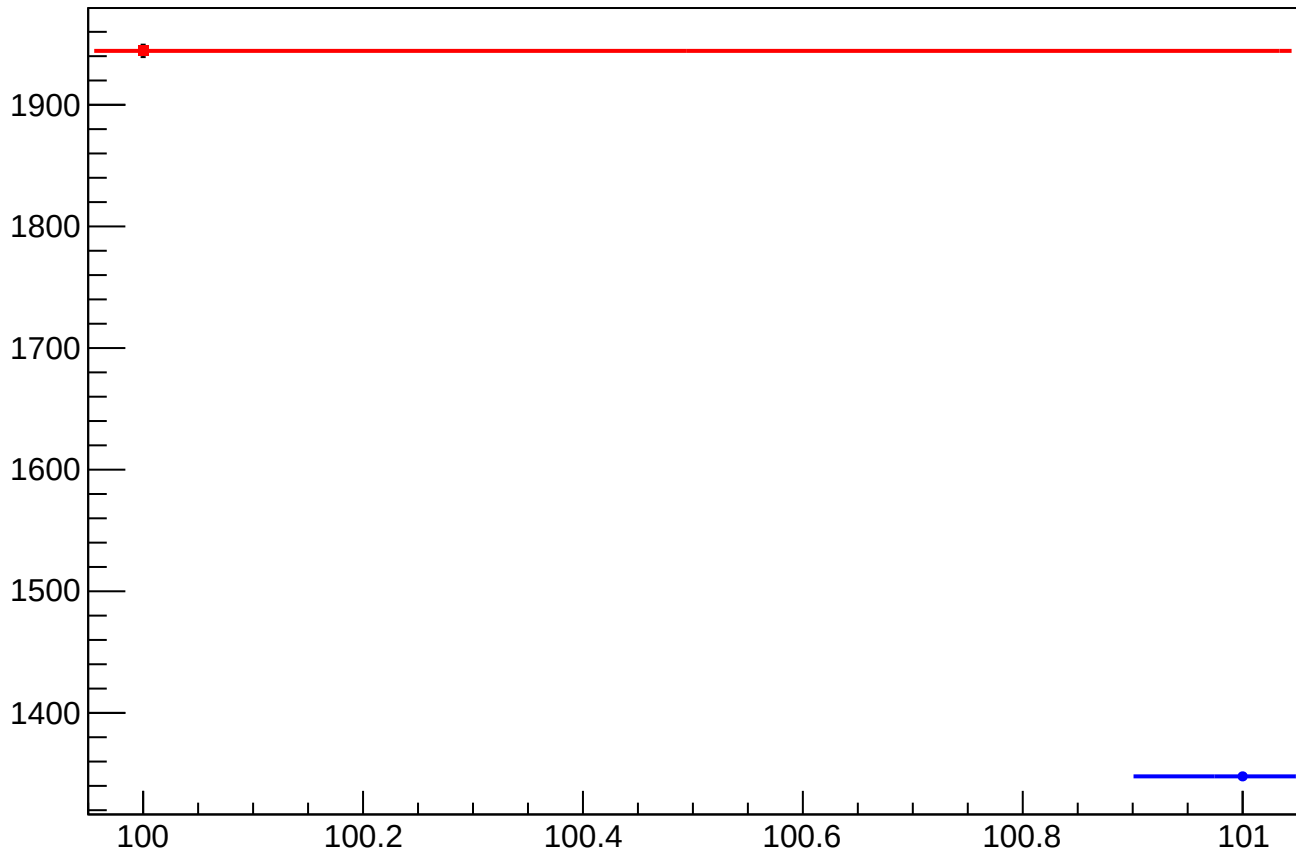
Right: -1410.892+/-1622.026  $\chi^2/\text{NDF}$ : 1.8/1

In: -1912.609+/-1664.531  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1410.892+/-1622.026  $\chi^2/\text{NDF}$ : 1.8/1

asym\_atl\_avg\_atr\_avg\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1347.822+/-1.177  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1944.344+/-5.108  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

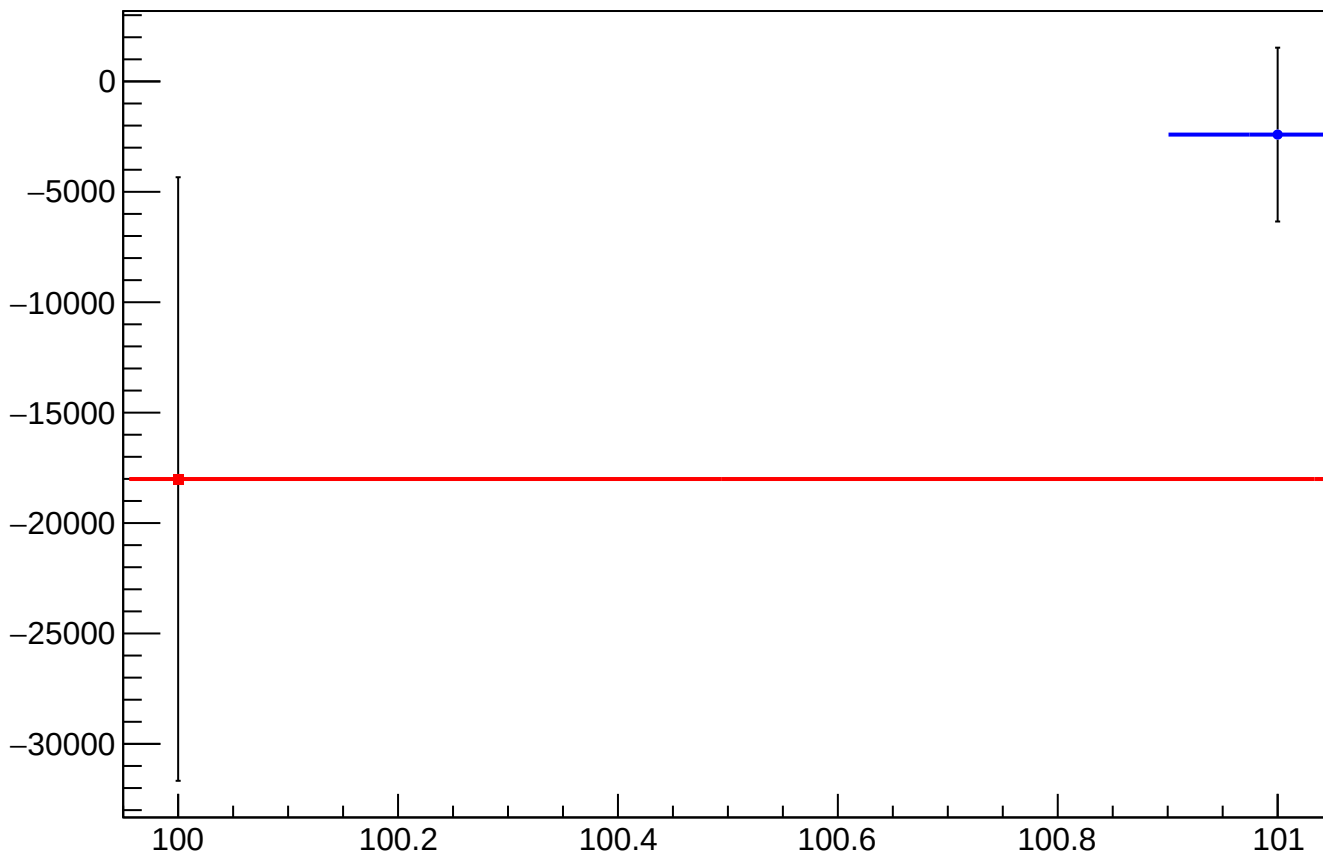
Right: 1377.898+/-1.147  $\chi^2/\text{NDF}$ : 12950.7/1

In: 1347.822+/-1.177  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1377.898+/-1.147  $\chi^2/\text{NDF}$ : 12950.7/1

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -2408.031+/-3936.217  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -18005.649+/-13666.341  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

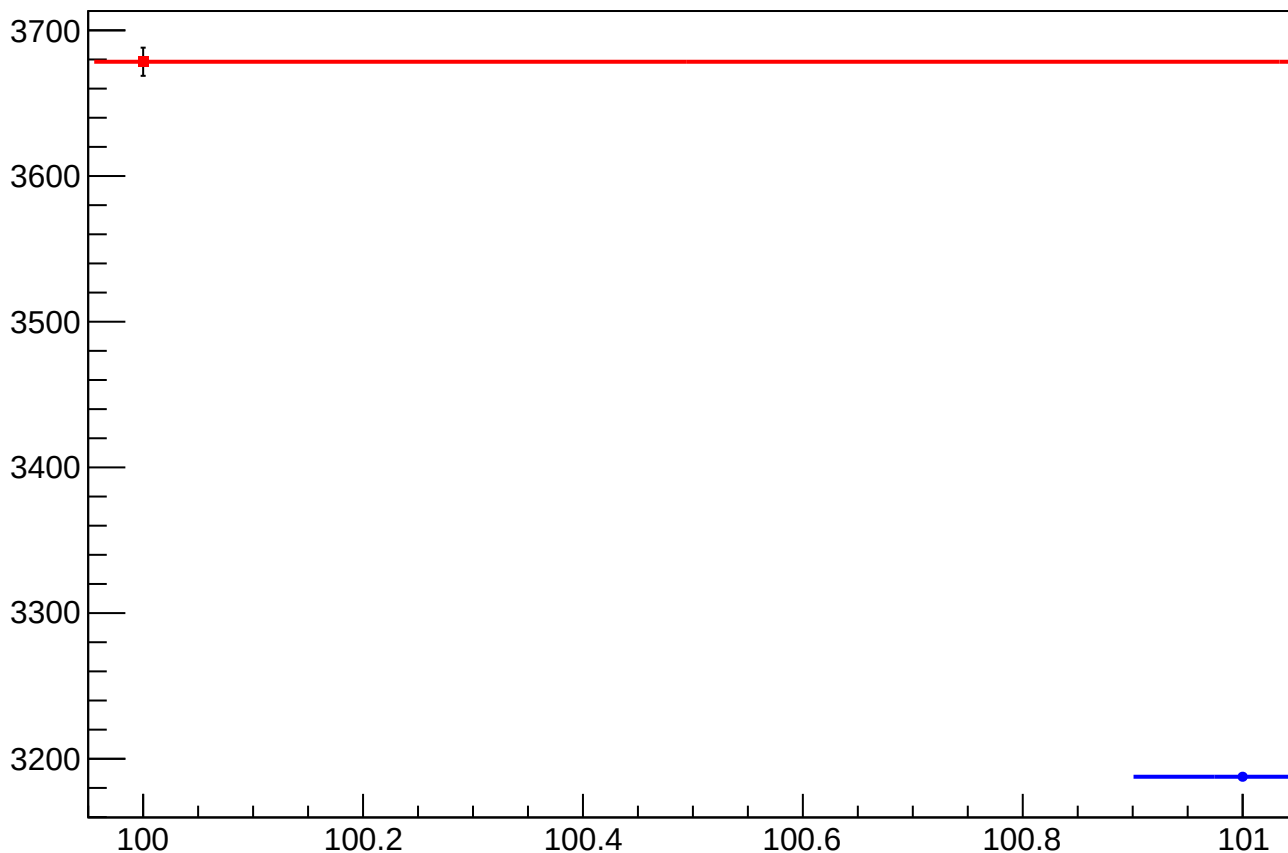
Right: -3602.846+/-3782.452  $\chi^2$ /NDF: 1.2/1

In: -2408.031+/-3936.217  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -3602.846+/-3782.452  $\chi^2$ /NDF: 1.2/1

eigen\_dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3187.676+/-2.783  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3678.436+/-9.664  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

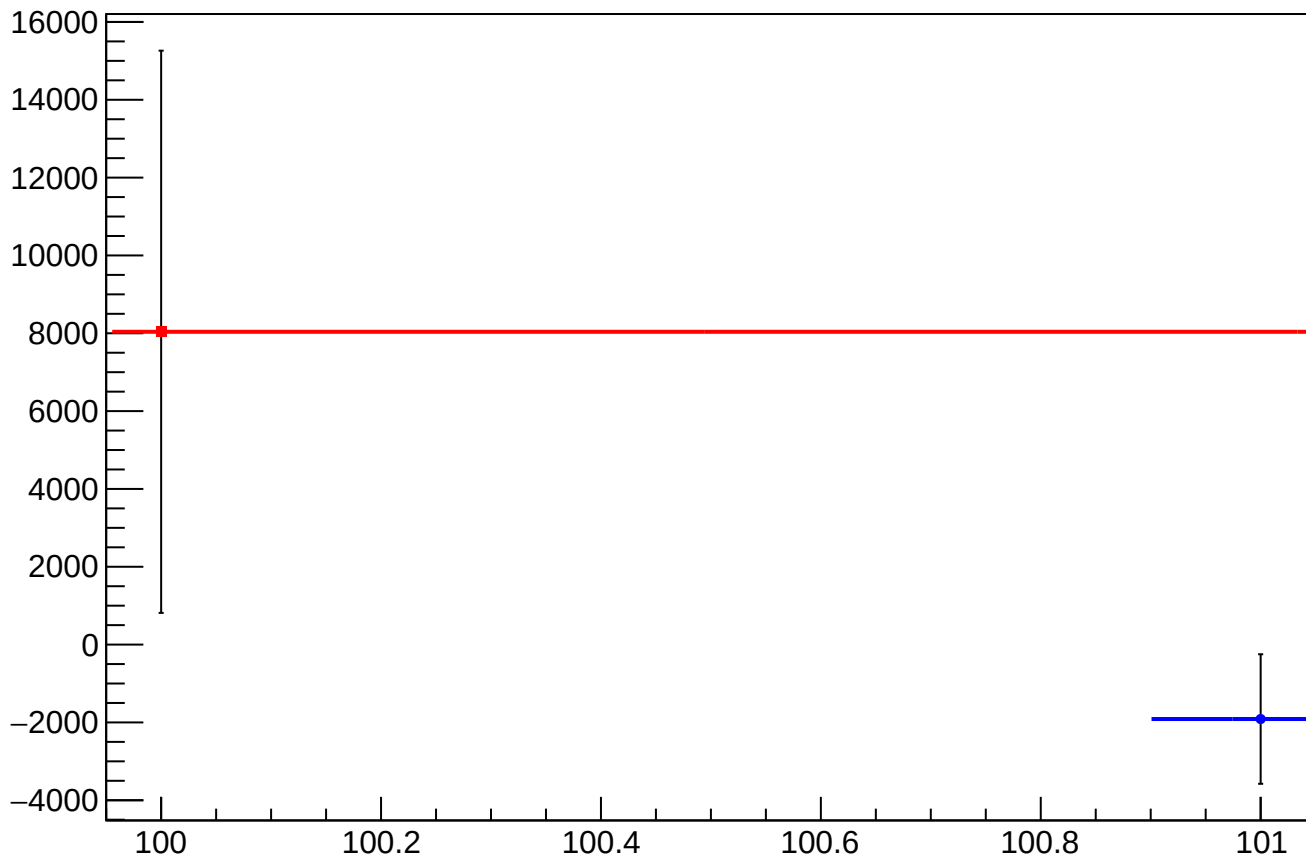
Right: 3225.269+/-2.675  $\chi^2/\text{NDF}$ : 2381.5/1

In: 3187.676+/-2.783  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3225.269+/-2.675  $\chi^2/\text{NDF}$ : 2381.5/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1912.593+/-1664.526  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8038.323+/-7223.711  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

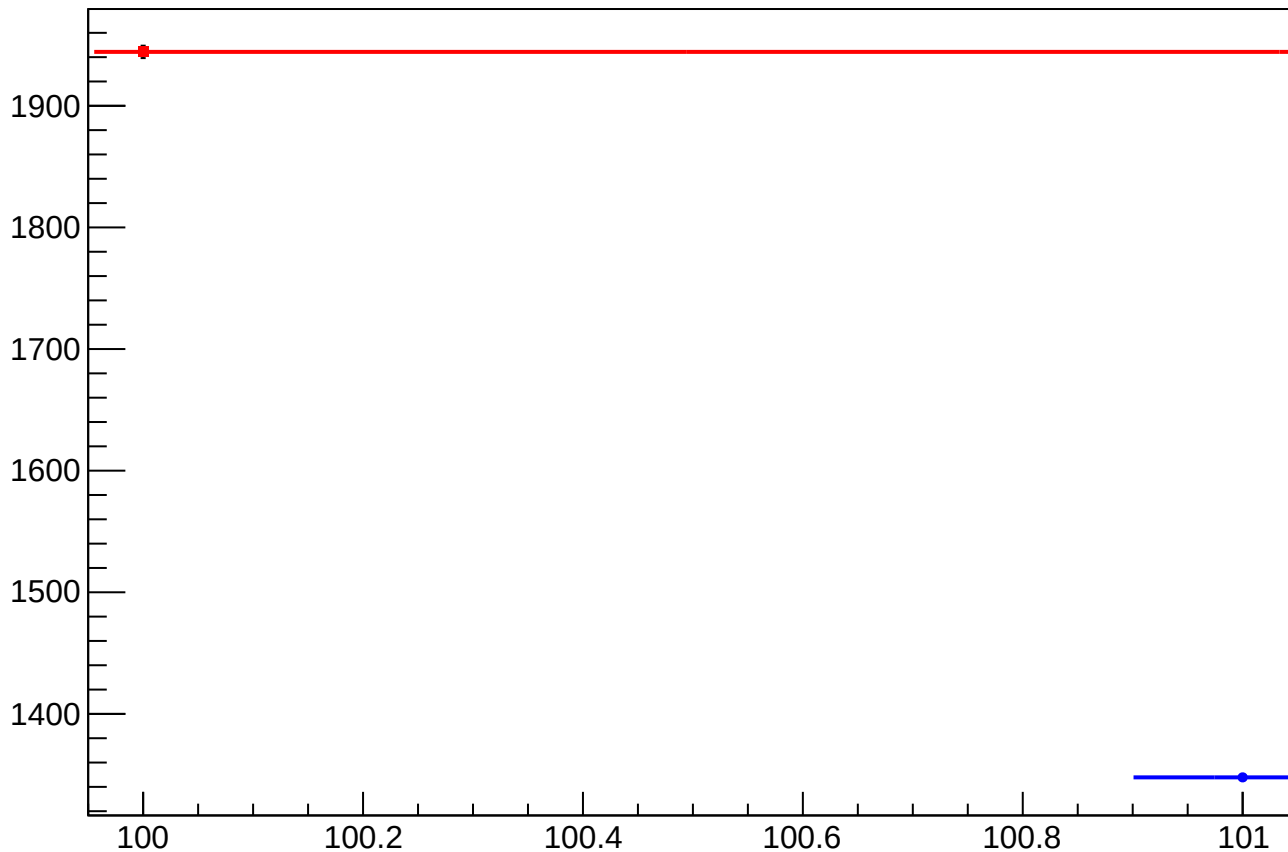
Right: -1410.880+/-1622.022  $\chi^2$ /NDF: 1.8/1

In: -1912.593+/-1664.526  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1410.880+/-1622.022  $\chi^2$ /NDF: 1.8/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1347.818+/-1.177  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1944.336+/-5.108  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1377.894+/-1.147  $\chi^2/\text{NDF}$ : 12950.6/1

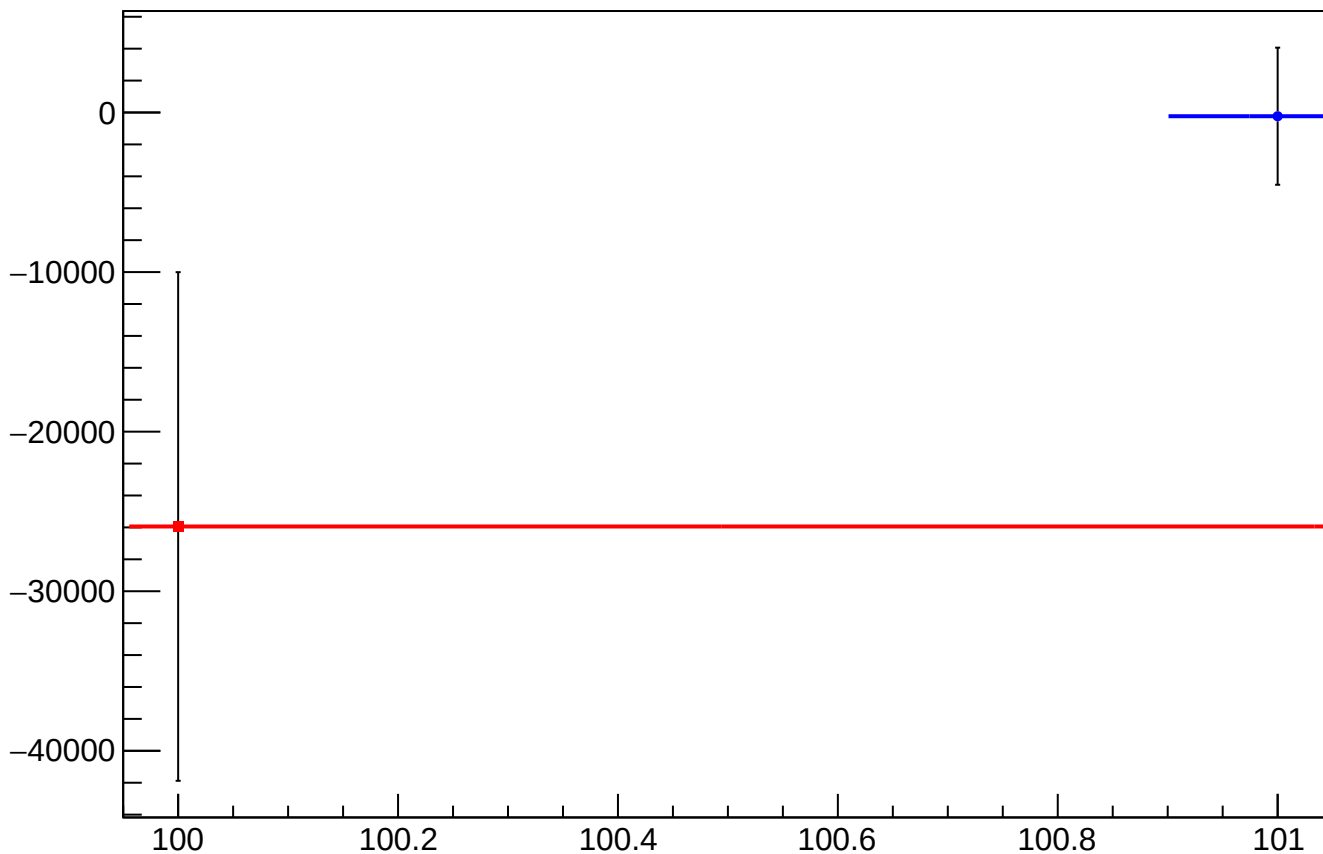
In: 1347.818+/-1.177  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1377.894+/-1.147  $\chi^2/\text{NDF}$ : 12950.6/1



asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -232.899+/-4295.530  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25942.305+/-15936.797  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

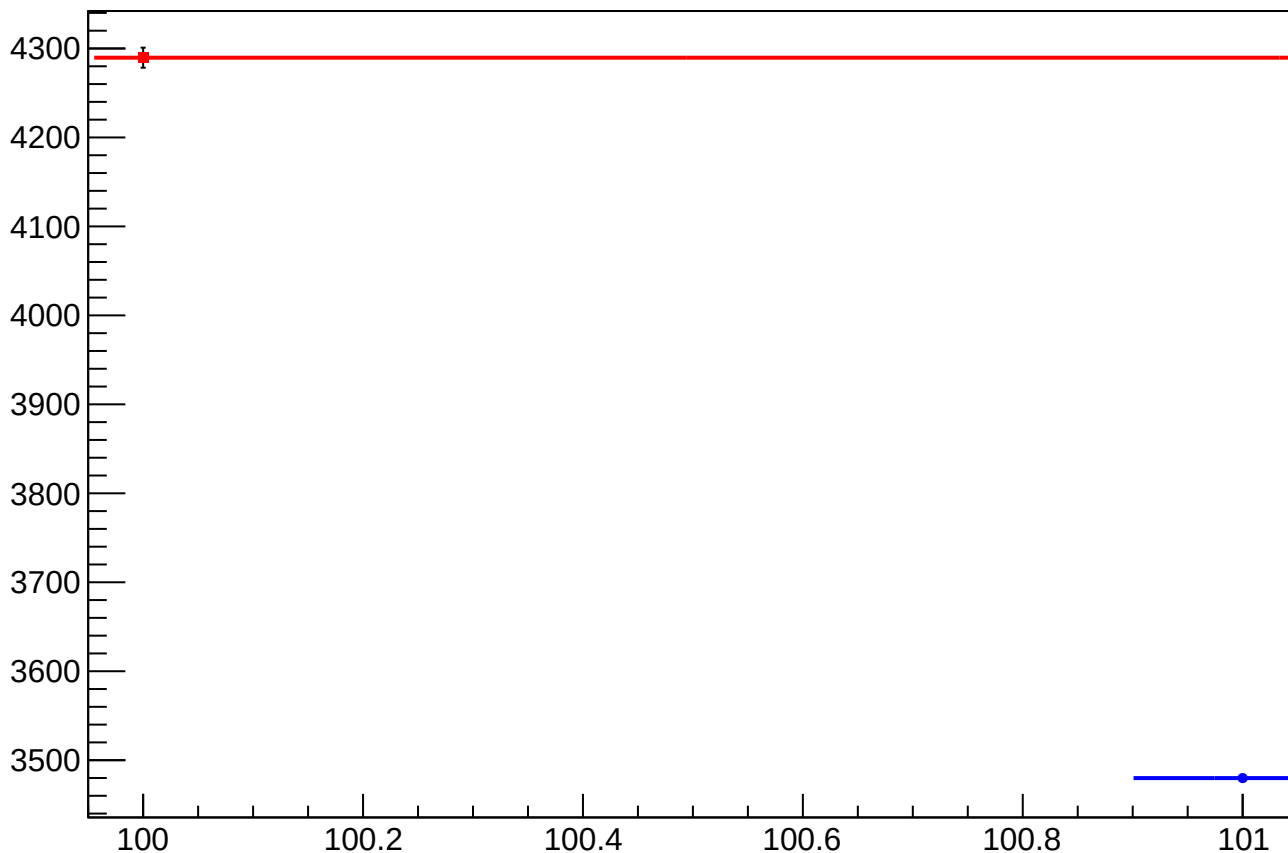
Right: -1974.167+/-4147.514  $\chi^2/\text{NDF}$ : 2.4/1

In: -232.899+/-4295.530  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1974.167+/-4147.514  $\chi^2/\text{NDF}$ : 2.4/1

asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3479.882+/-3.037  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4289.653+/-11.269  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

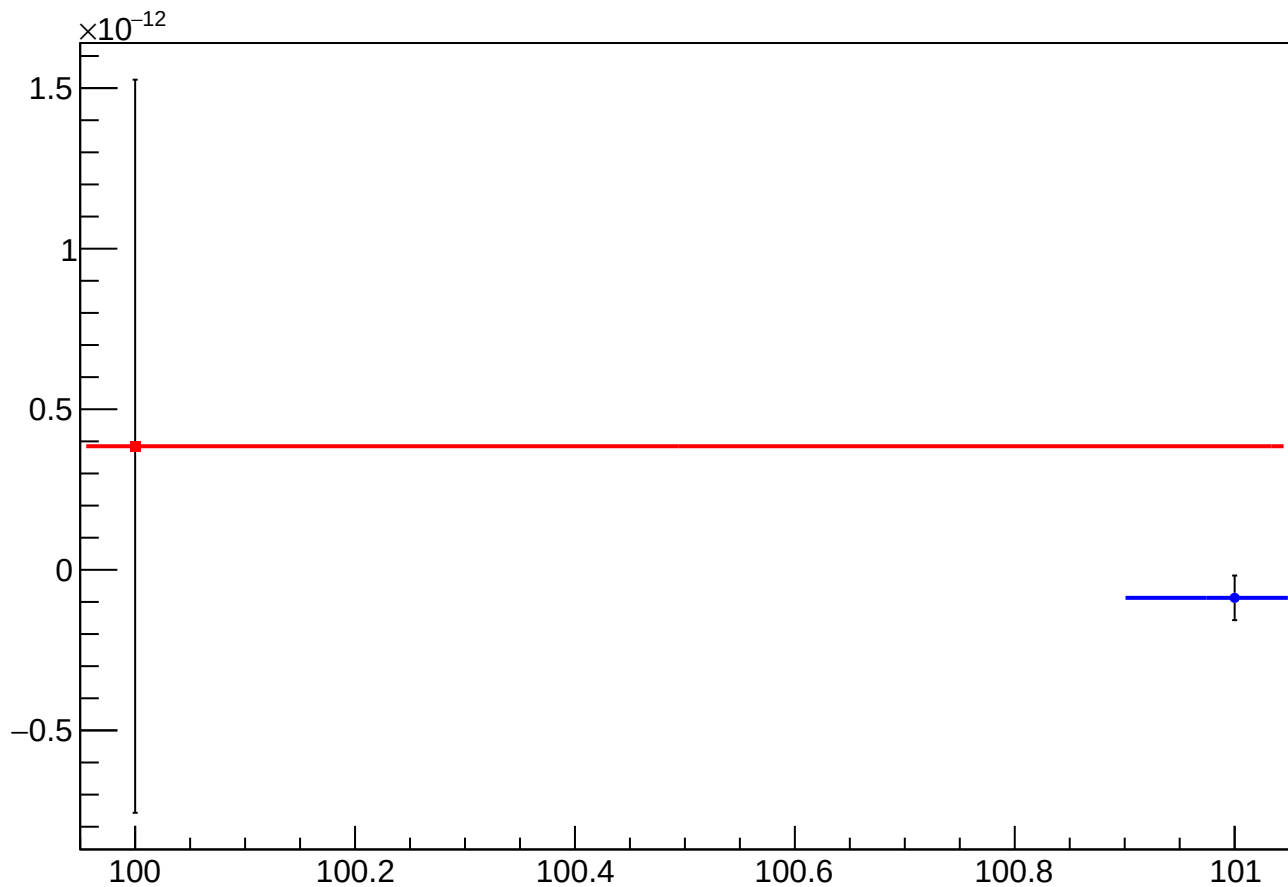
Right: 3534.727+/-2.933  $\chi^2$ /NDF: 4813.9/1

In: 3479.882+/-3.037  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 3534.727+/-2.933  $\chi^2$ /NDF: 4813.9/1

asym\_atl\_avg\_atr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

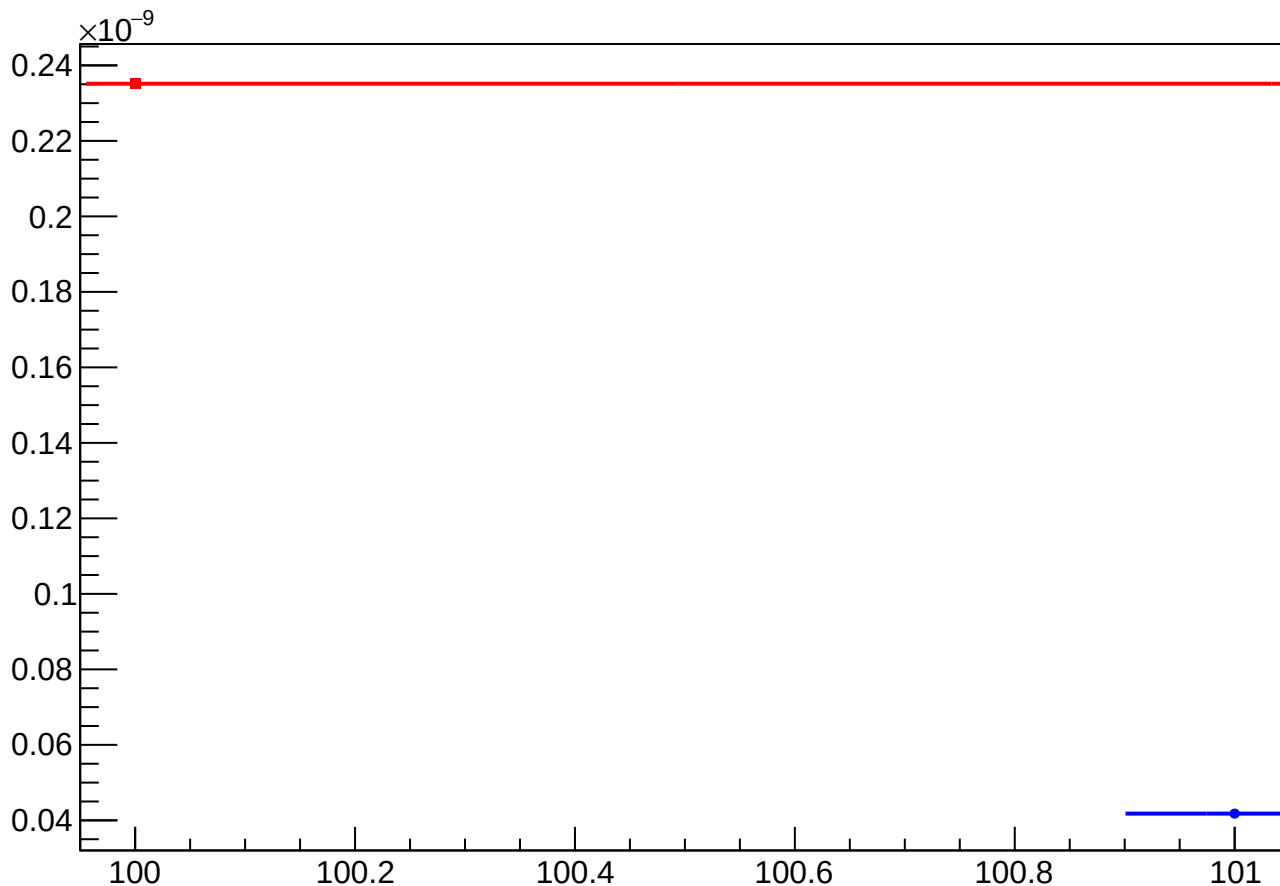
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.2/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.2/1

asym\_atl\_avg\_atr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

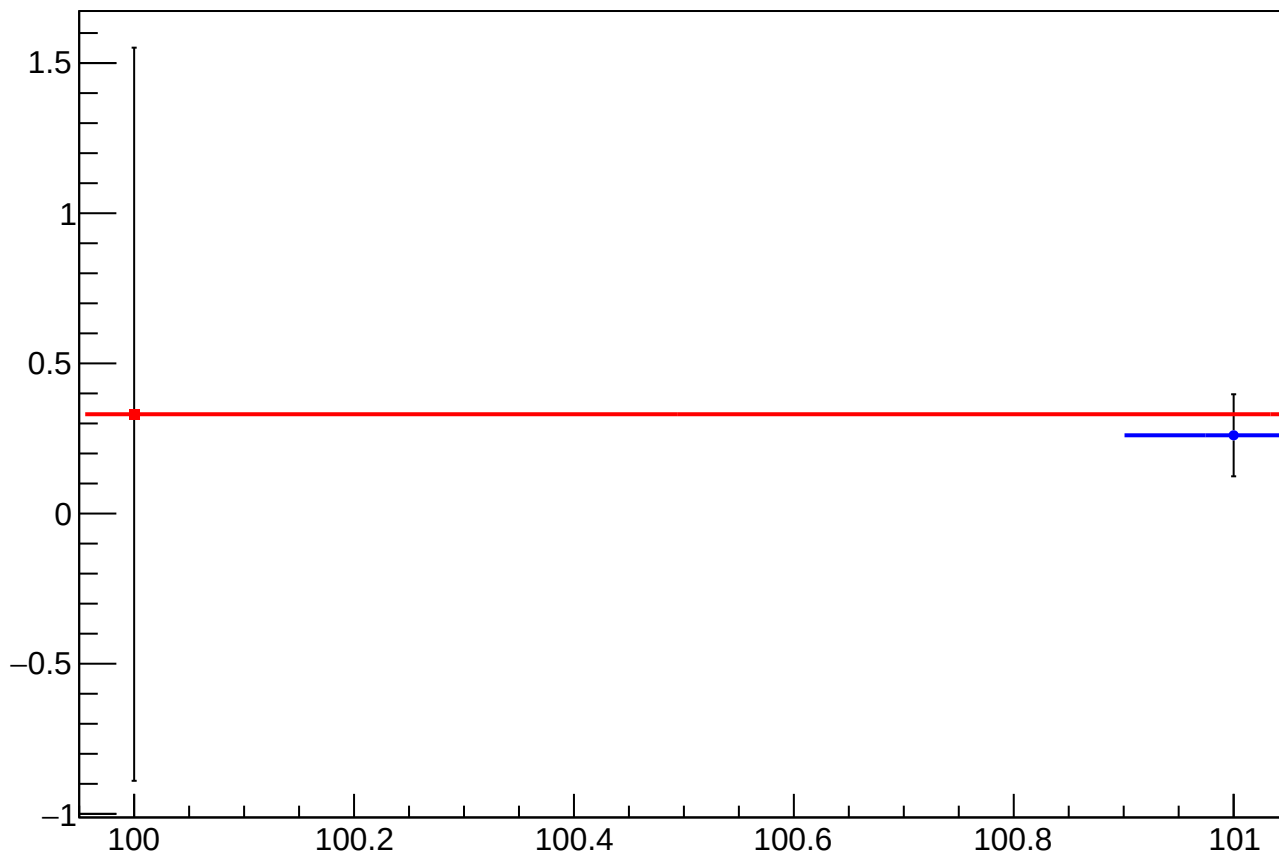
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 57179.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 57179.4/1

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.261+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.331+/-1.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

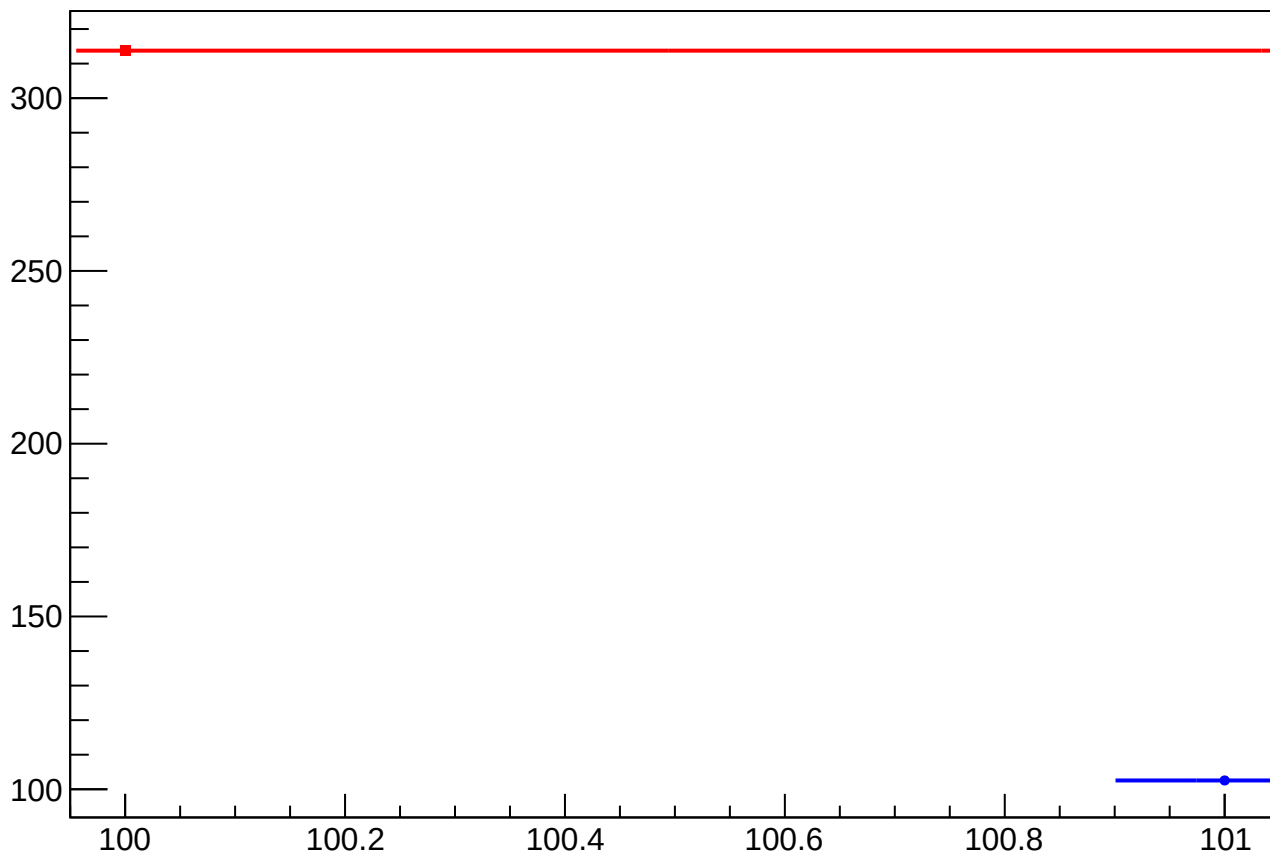
Right: 0.261+/-0.136  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.261+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.261+/-0.136  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 102.545 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 313.744 $\pm$ 0.863  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

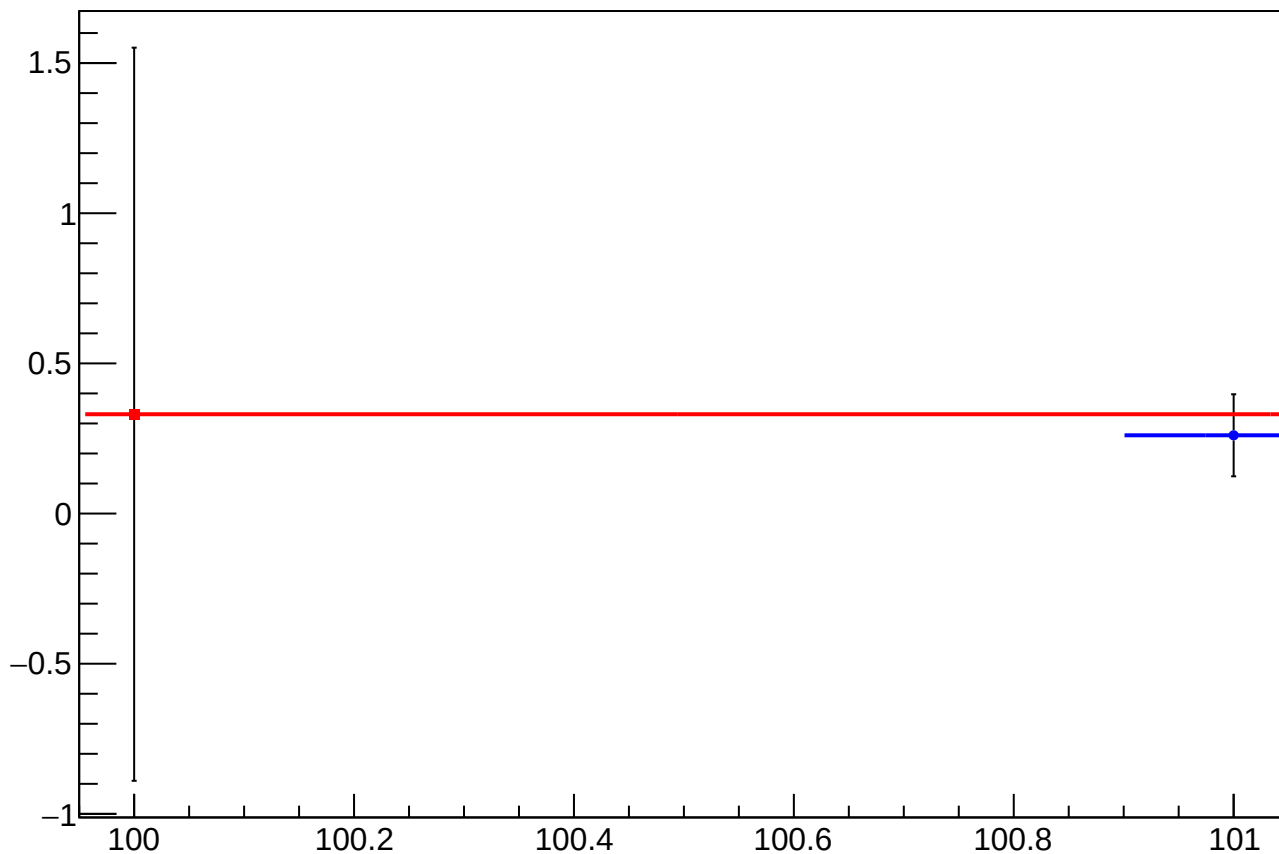
Right: 105.157 $\pm$ 0.096  $\chi^2$ /NDF: 59138.9/1

In: 102.545 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 105.157 $\pm$ 0.096  $\chi^2$ /NDF: 59138.9/1

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.261+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.331+/-1.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

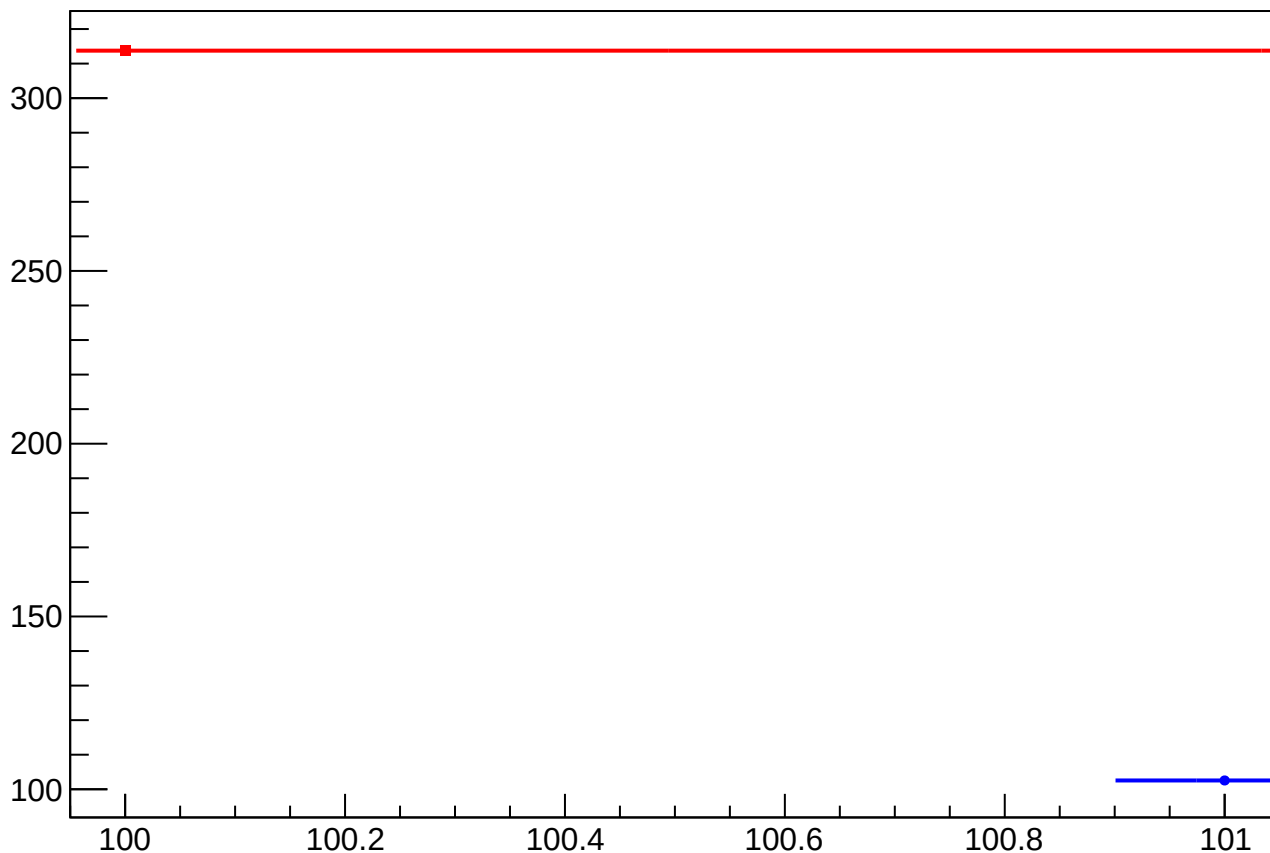
Right: 0.261+/-0.136  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.261+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.261+/-0.136  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_avg\_atr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 102.545 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 313.744 $\pm$ 0.863  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 105.157 $\pm$ 0.096  $\chi^2$ /NDF: 59138.9/1

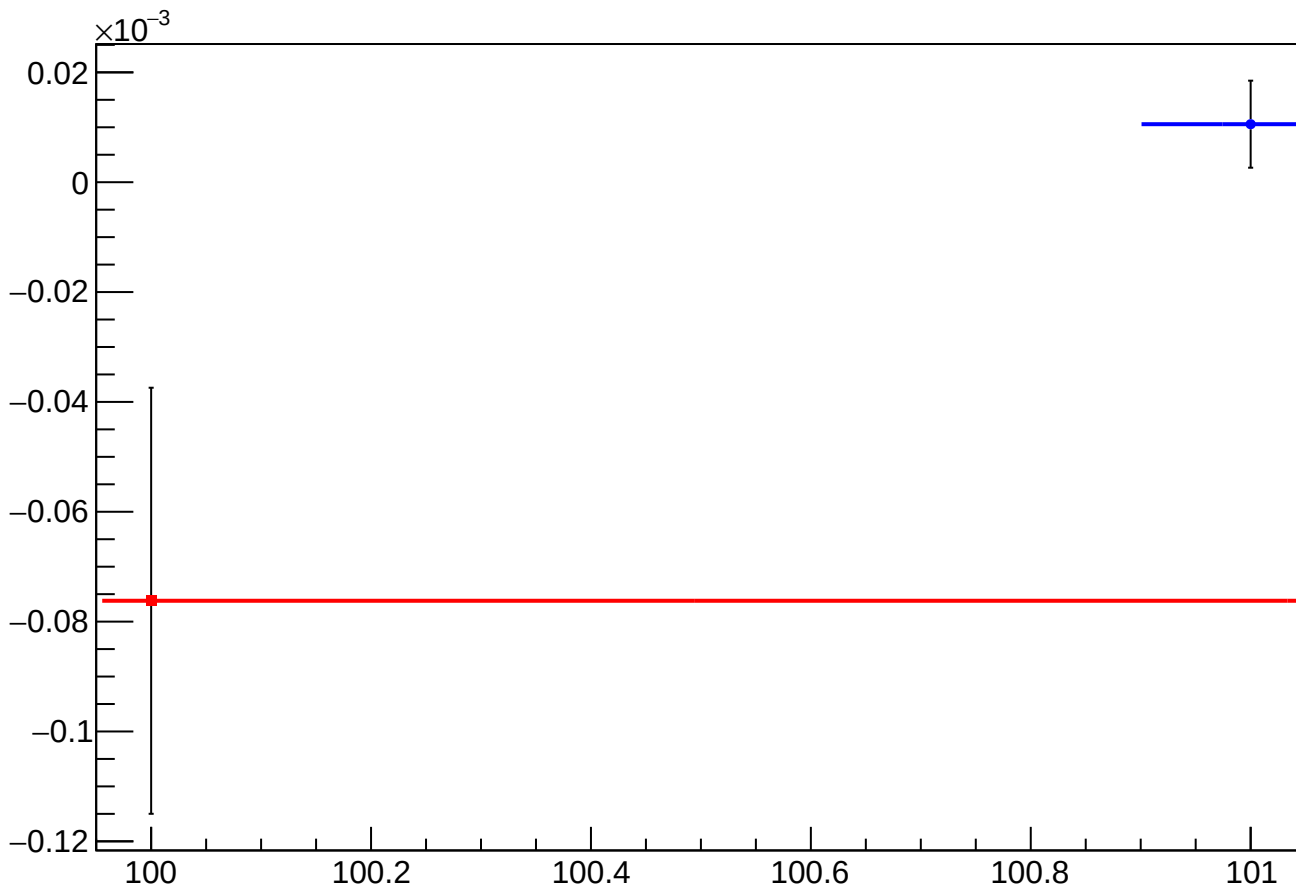
In: 102.545 $\pm$ 0.097  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 105.157 $\pm$ 0.096  $\chi^2$ /NDF: 59138.9/1



asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

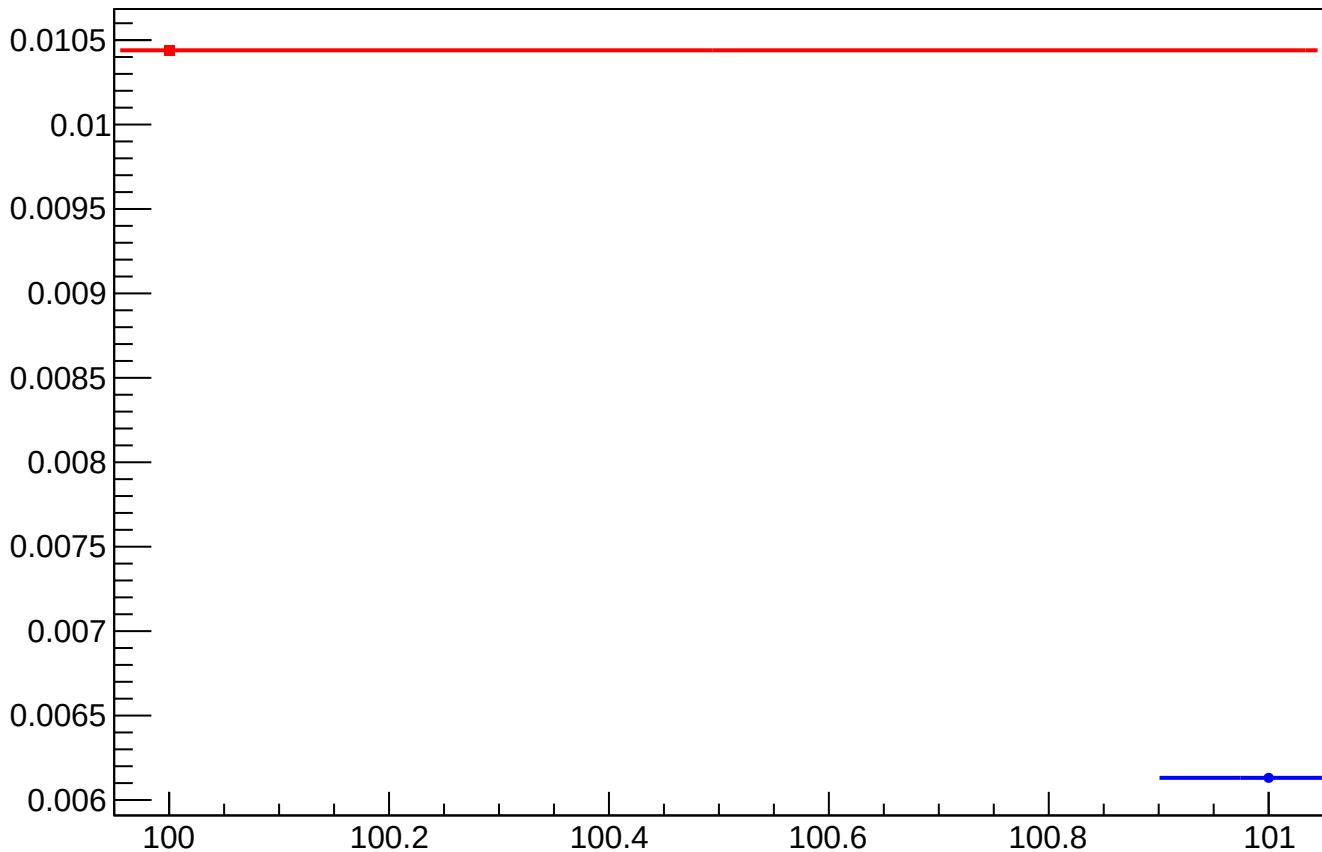
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

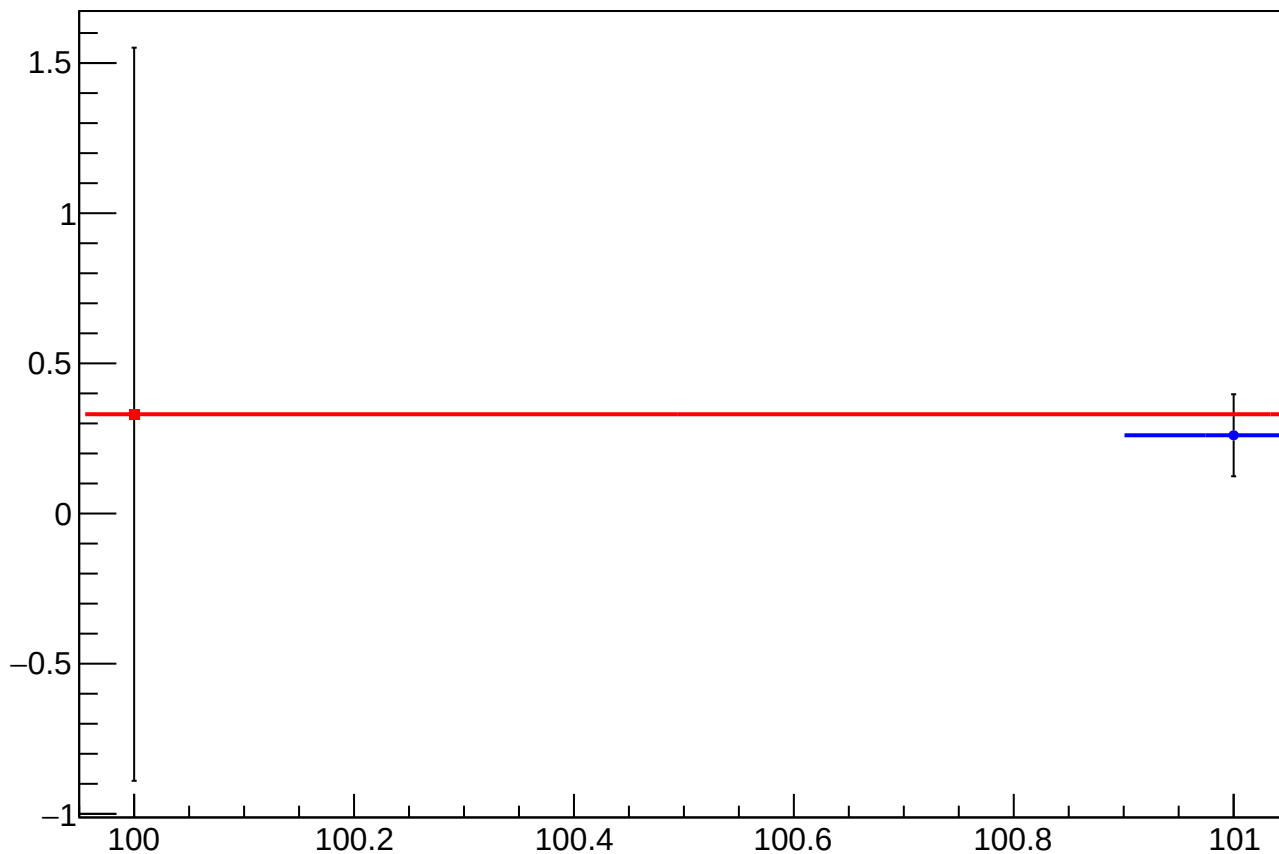
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 23692.0/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 23692.0/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.261 $\pm$ 0.137  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.331 $\pm$ 1.221  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

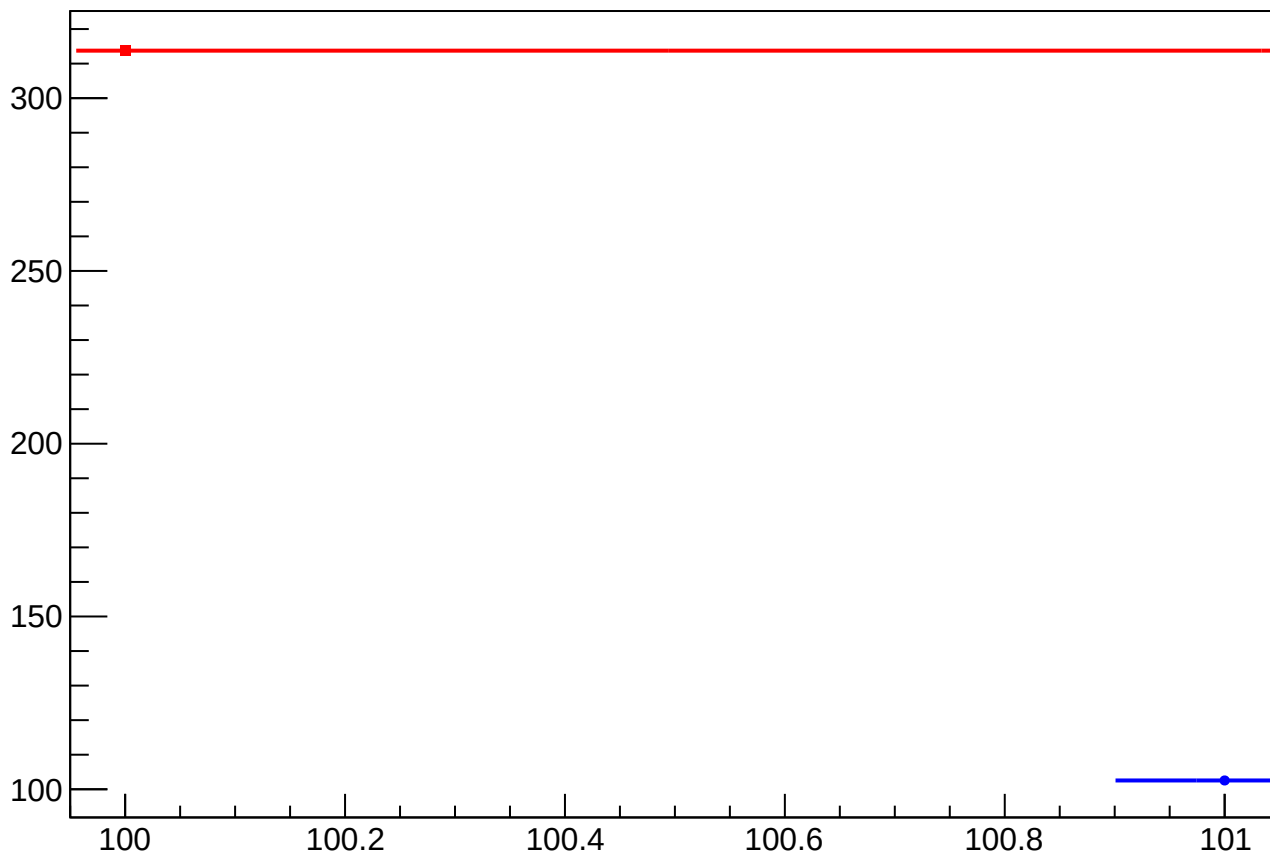
Right: 0.261 $\pm$ 0.136  $\chi^2$ /NDF: 0.0/1

In: 0.261 $\pm$ 0.137  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.261 $\pm$ 0.136  $\chi^2$ /NDF: 0.0/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 102.546±/-0.097  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 313.748±/-0.863  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

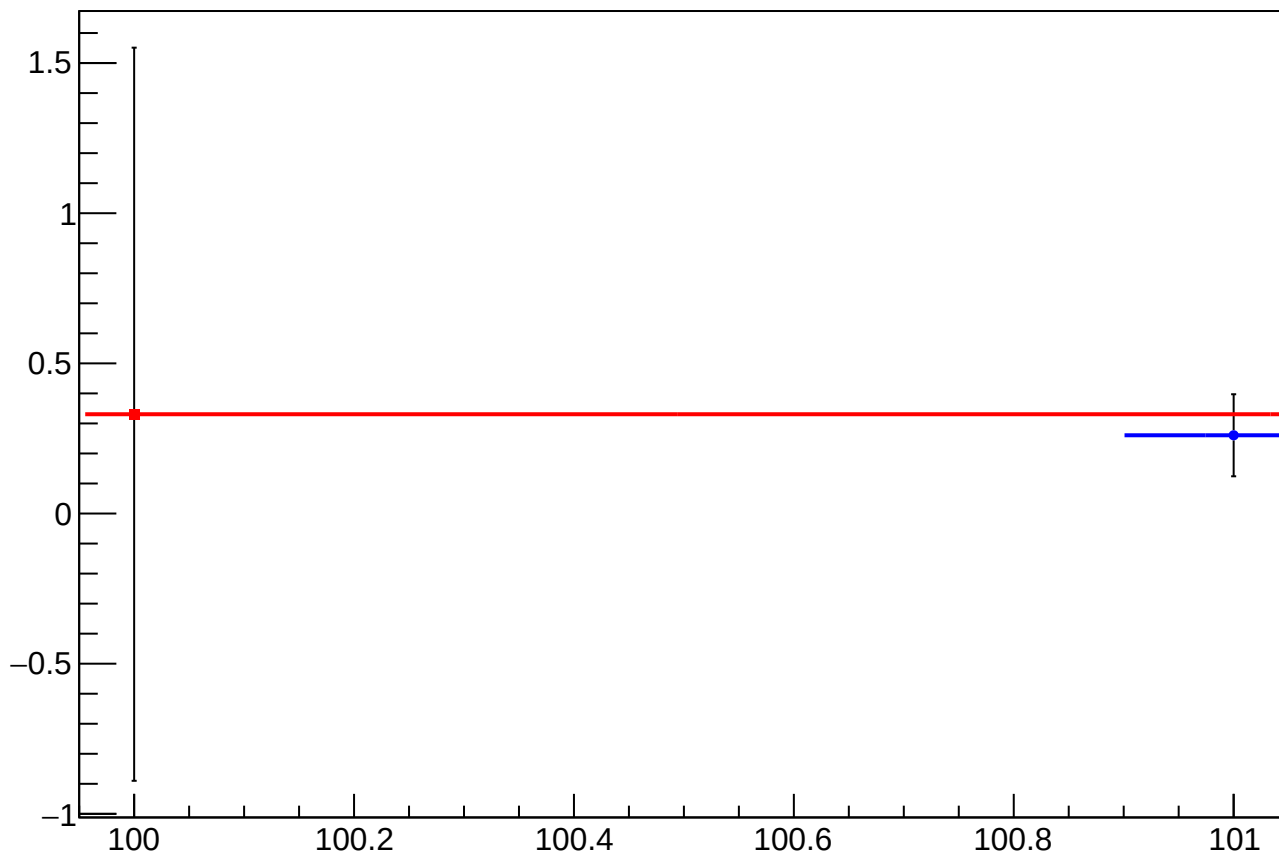
Right: 105.159±/-0.096  $\chi^2/\text{NDF}$ : 59139.0/1

In: 102.546±/-0.097  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 105.159±/-0.096  $\chi^2/\text{NDF}$ : 59139.0/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.261 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.331 $\pm$ 1.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

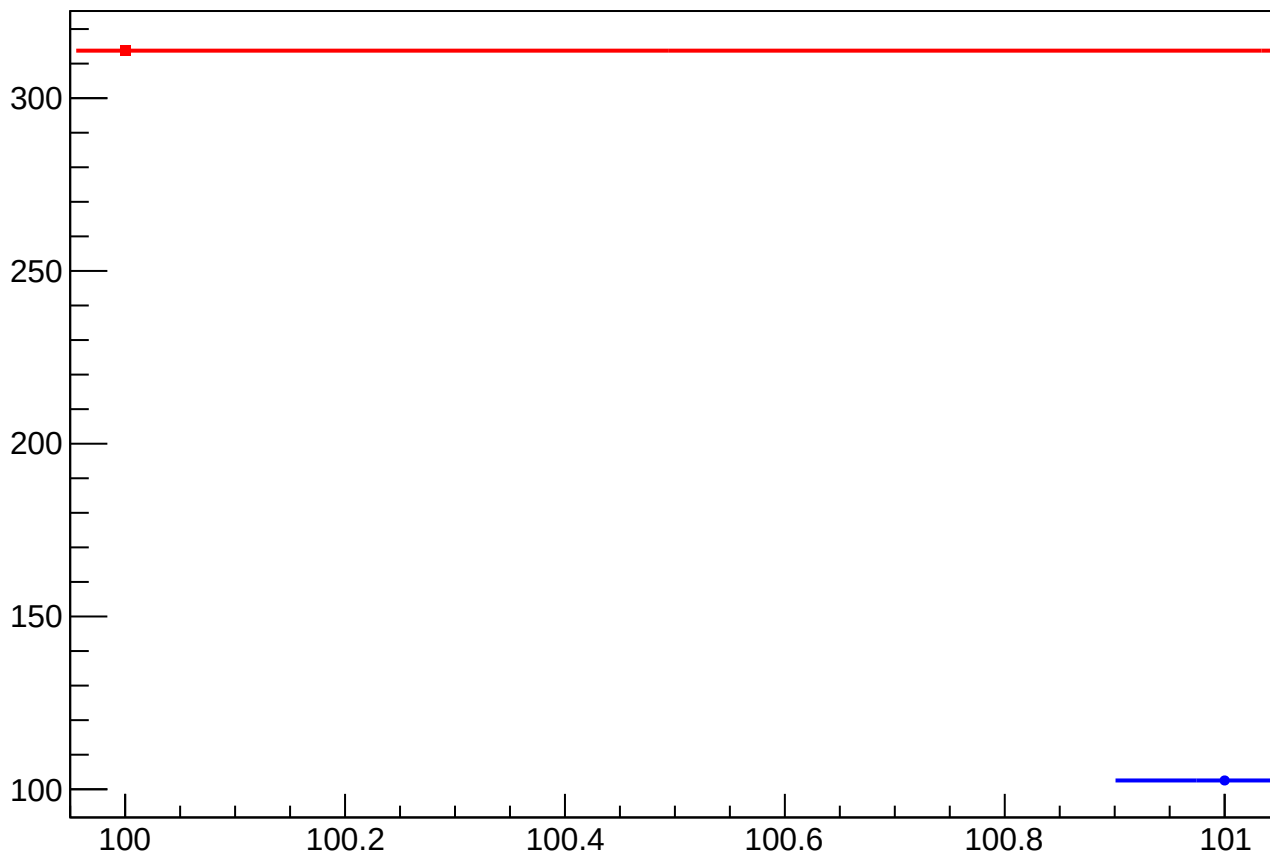
Right: 0.261 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.261 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.261 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 102.546 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 313.748 $\pm$ 0.863  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

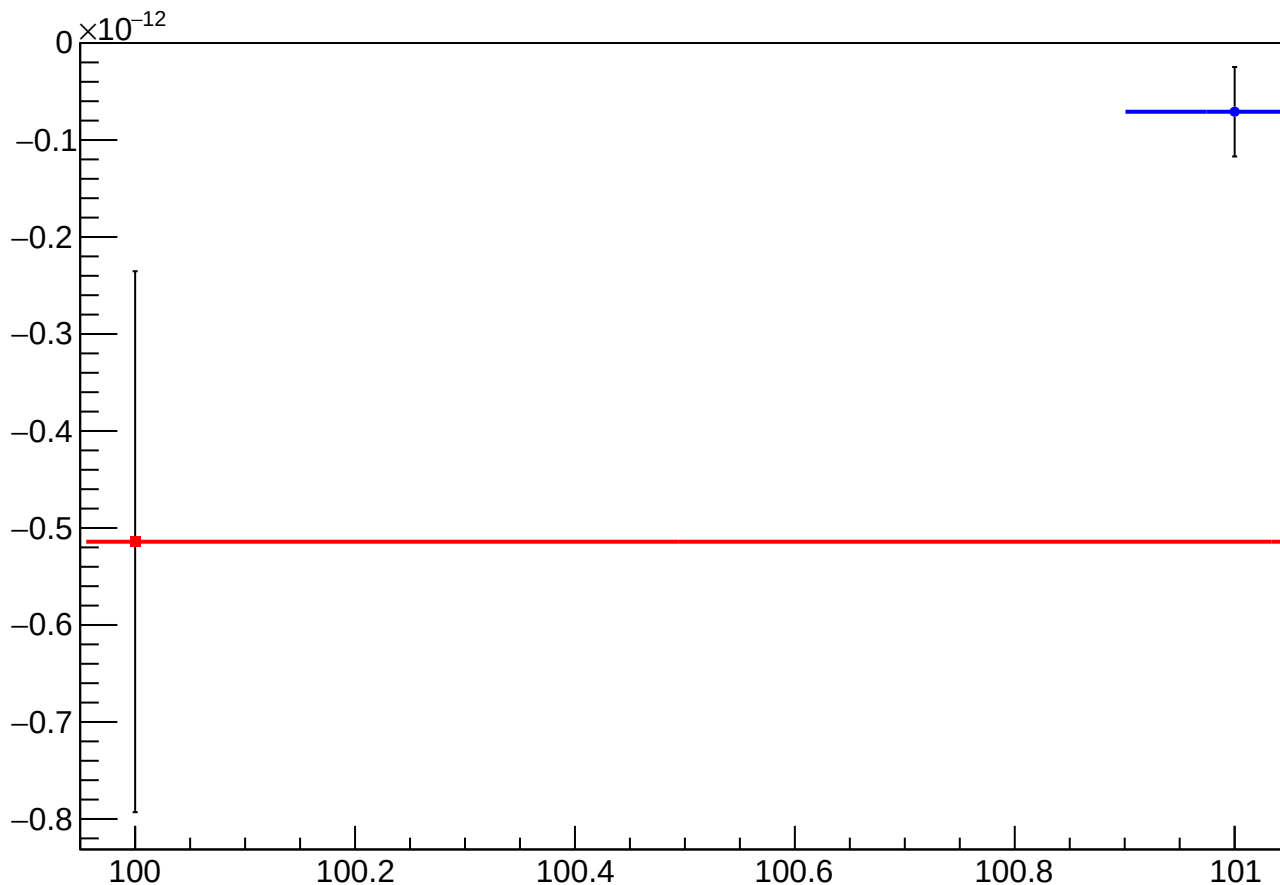
Right: 105.159 $\pm$ 0.096  $\chi^2$ /NDF: 59139.0/1

In: 102.546 $\pm$ 0.097  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 105.159 $\pm$ 0.096  $\chi^2$ /NDF: 59139.0/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

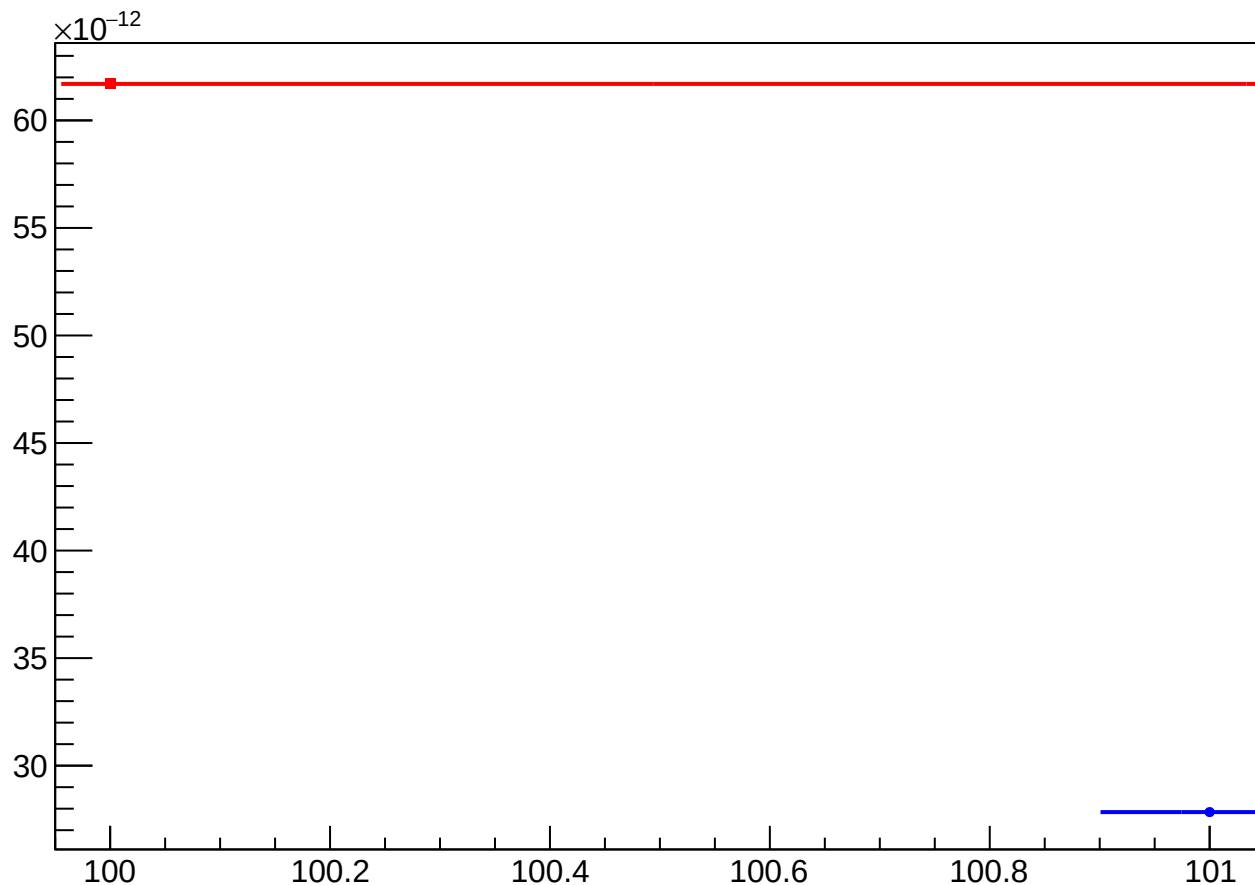
Right: -0.000+/-0.000  $\chi^2$ /NDF: 2.5/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 2.5/1

asym\_atl\_avg\_atr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28694.3/1

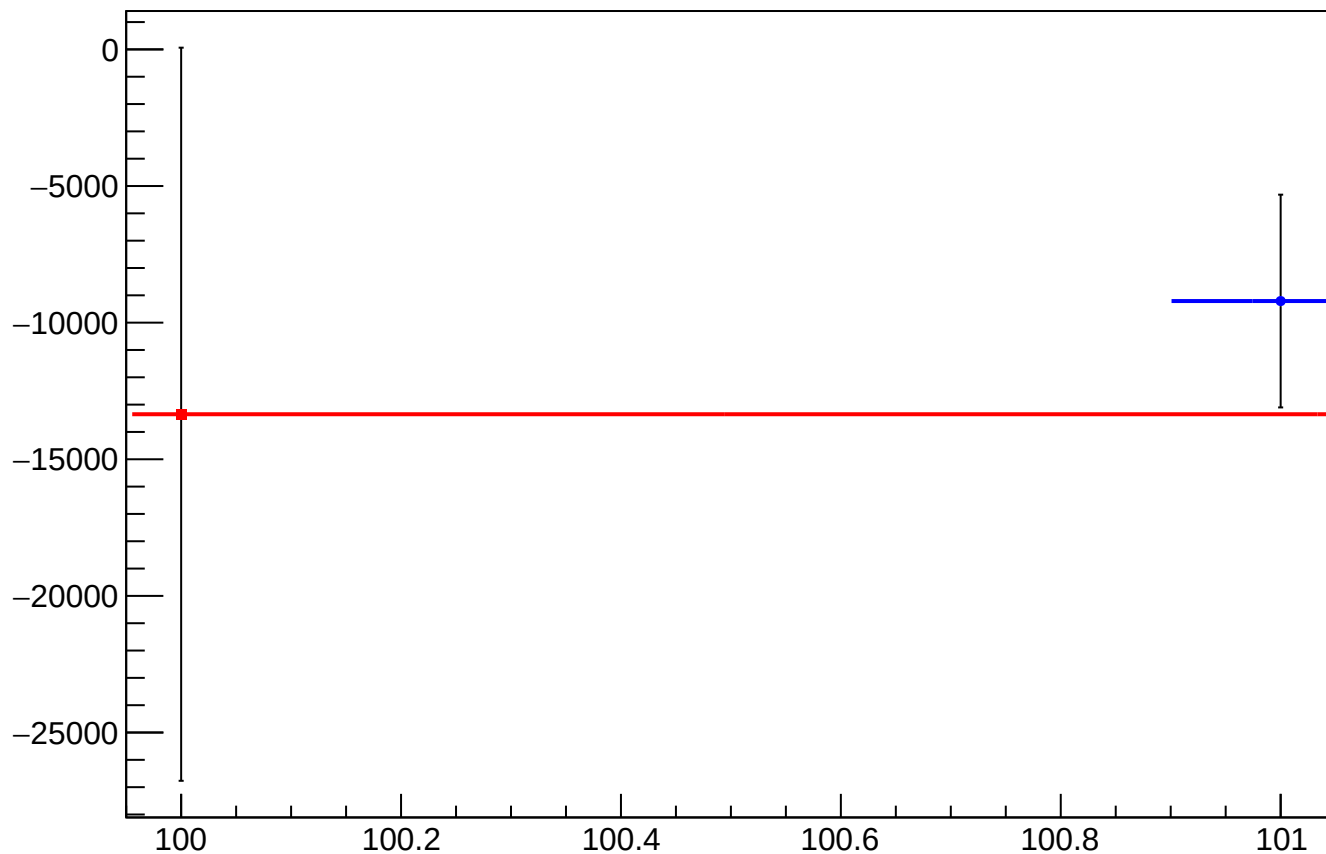
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28694.3/1



reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -9209.362 $\pm$ 3893.119  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -13351.799 $\pm$ 13415.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

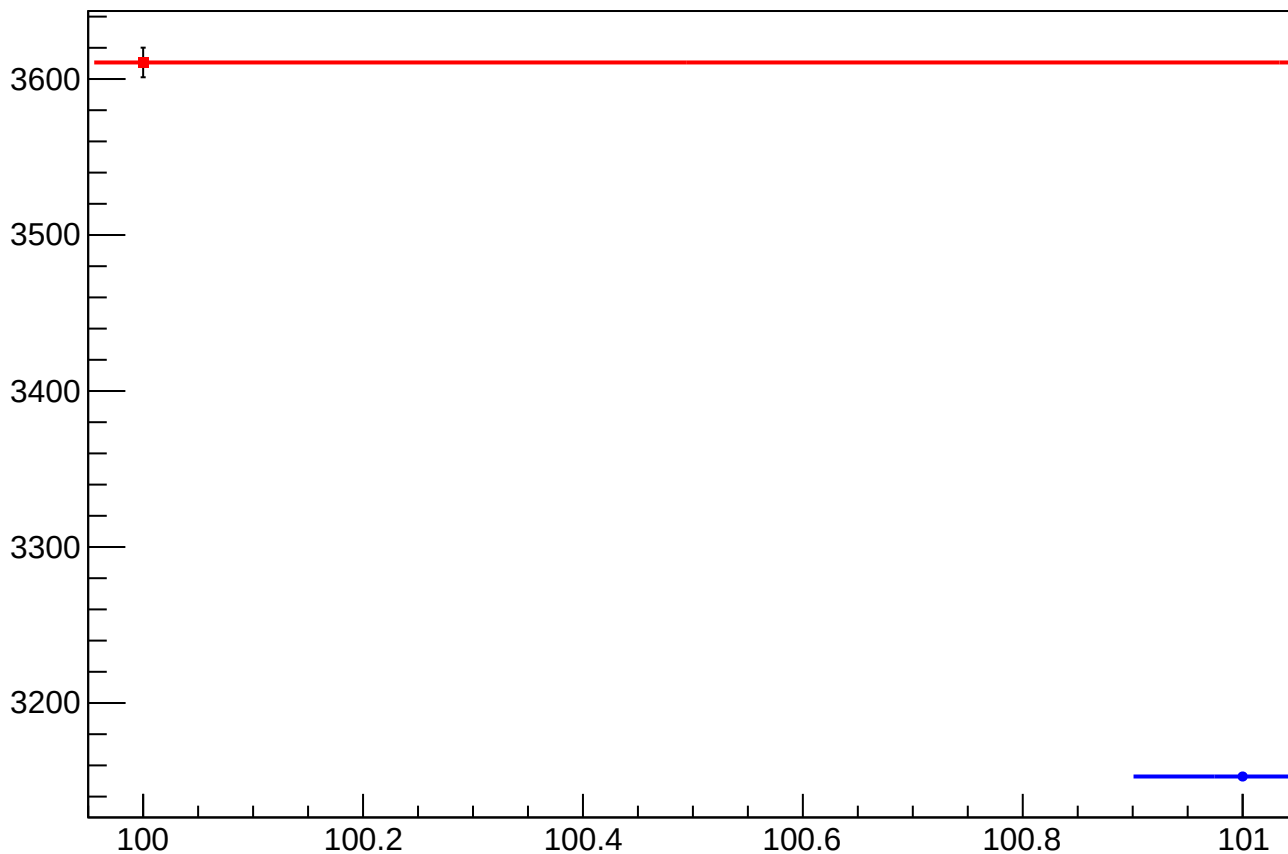
Right: -9531.135 $\pm$ 3738.860  $\chi^2$ /NDF: 0.1/1

In: -9209.362 $\pm$ 3893.119  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9531.135 $\pm$ 3738.860  $\chi^2$ /NDF: 0.1/1

reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3152.882+/-2.753  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3610.603+/-9.486  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

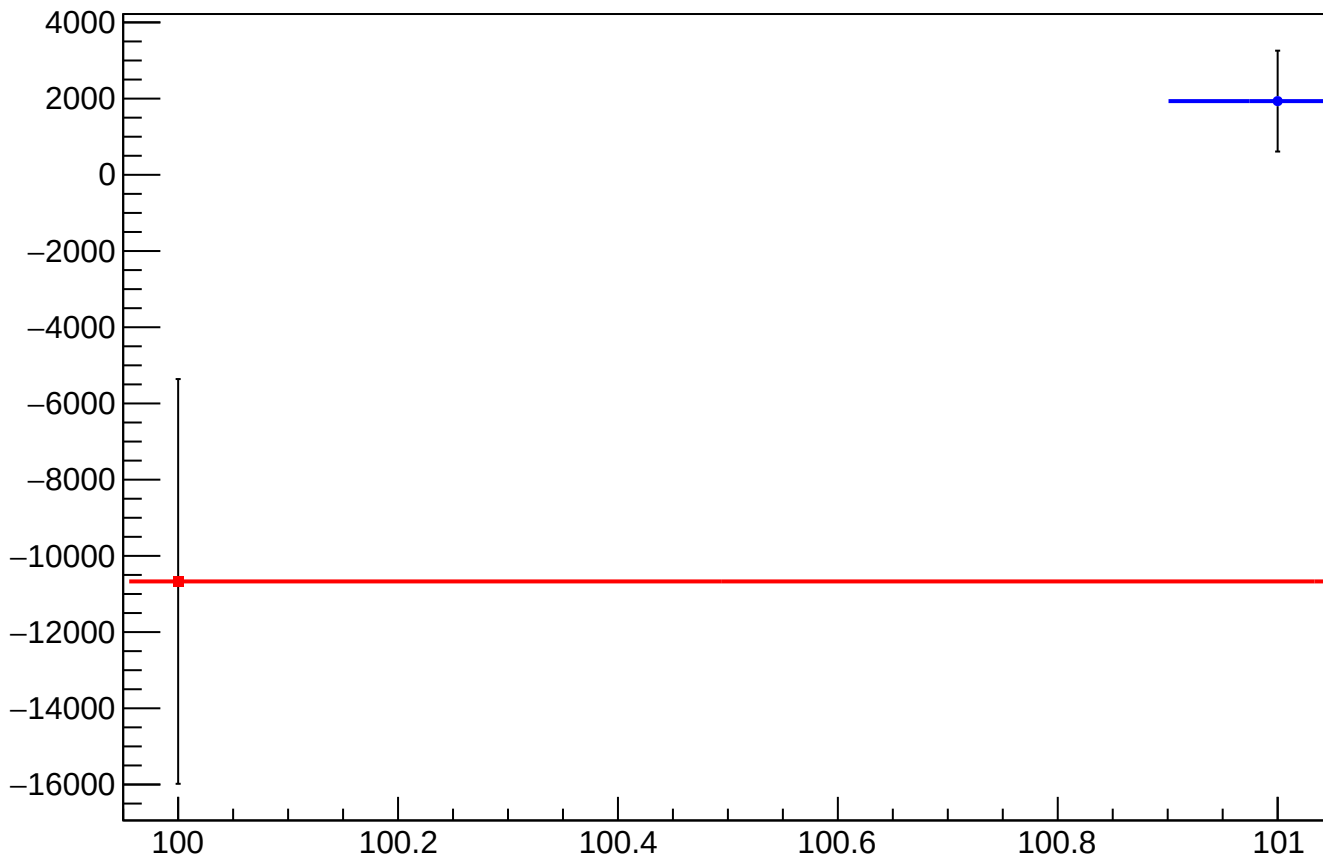
Right: 3188.437+/-2.644  $\chi^2$ /NDF: 2147.5/1

In: 3152.882+/-2.753  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 3188.437+/-2.644  $\chi^2$ /NDF: 2147.5/1

asym\_atl\_dd\_atr\_dd\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1934.433+/-1323.538  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -10670.363+/-5310.851  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

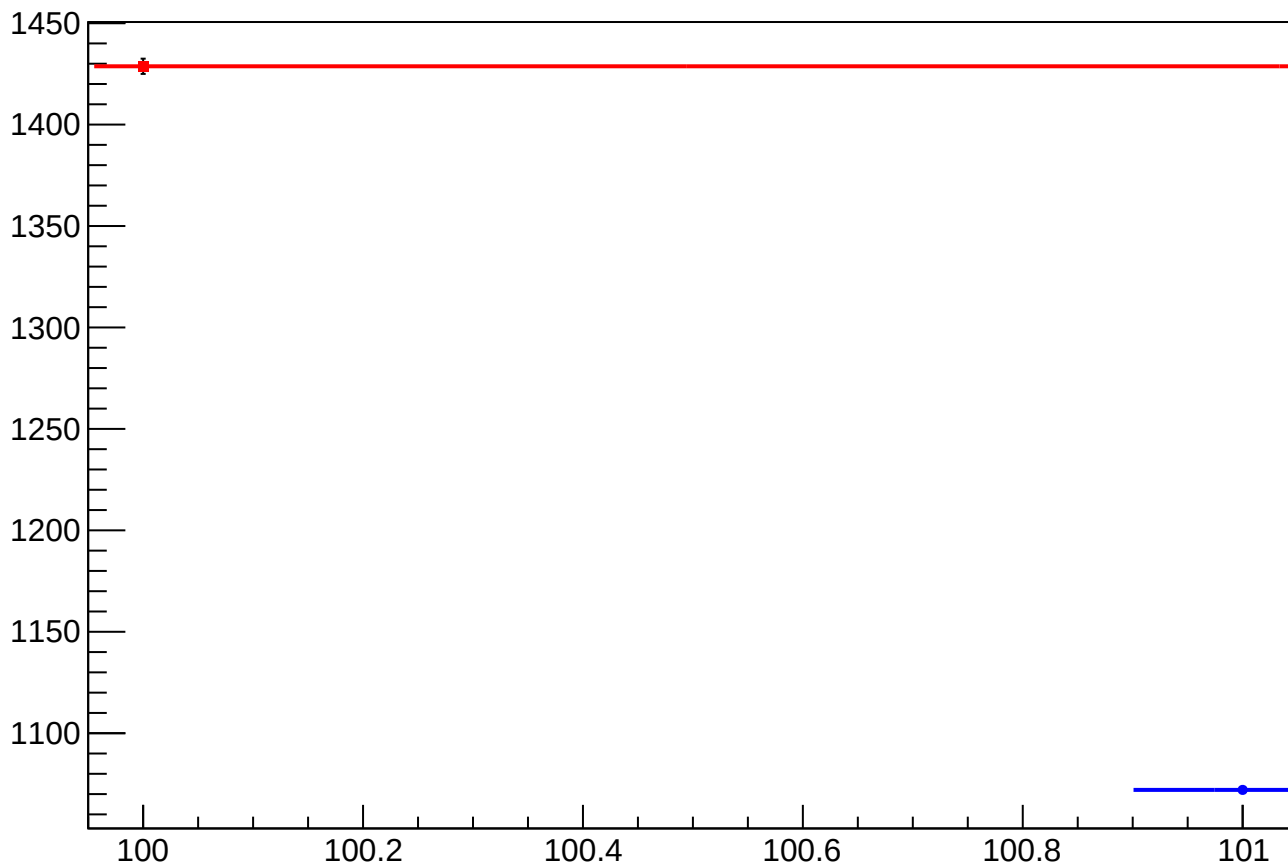
Right: 1197.357+/-1284.258  $\chi^2/\text{NDF}$ : 5.3/1

In: 1934.433+/-1323.538  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 1197.357+/-1284.258  $\chi^2/\text{NDF}$ : 5.3/1

asym\_atl\_dd\_atr\_dd\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1072.065 $\pm$ 0.936  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1428.730 $\pm$ 3.755  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

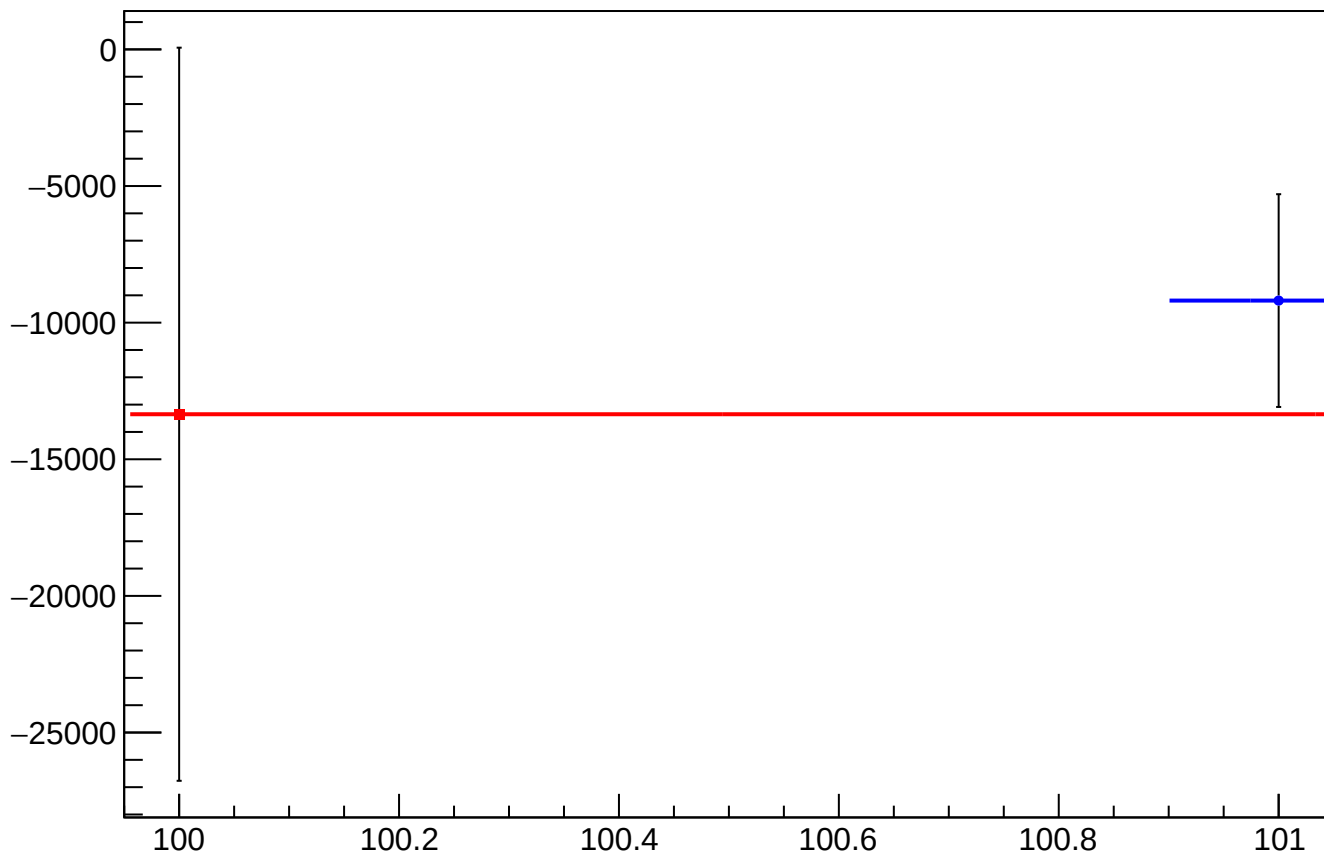
Right: 1092.922 $\pm$ 0.908  $\chi^2$ /NDF: 8492.8/1

In: 1072.065 $\pm$ 0.936  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1092.922 $\pm$ 0.908  $\chi^2$ /NDF: 8492.8/1

cor\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -9192.330 $\pm$ 3893.138  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -13351.692 $\pm$ 13415.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

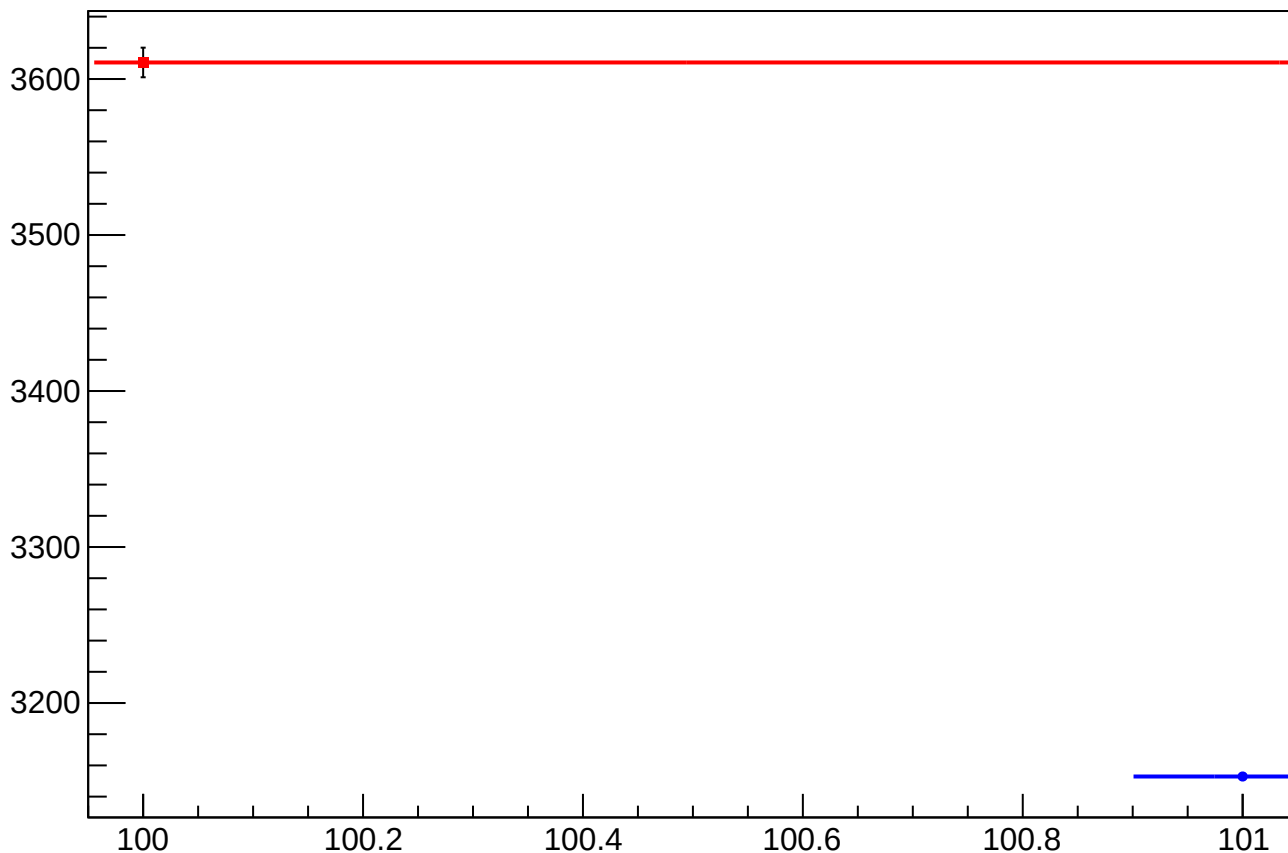
Right: -9515.421 $\pm$ 3738.877  $\chi^2$ /NDF: 0.1/1

In: -9192.330 $\pm$ 3893.138  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9515.421 $\pm$ 3738.877  $\chi^2$ /NDF: 0.1/1

cor\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3152.894 $\pm$ 2.753  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3610.603 $\pm$ 9.486  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

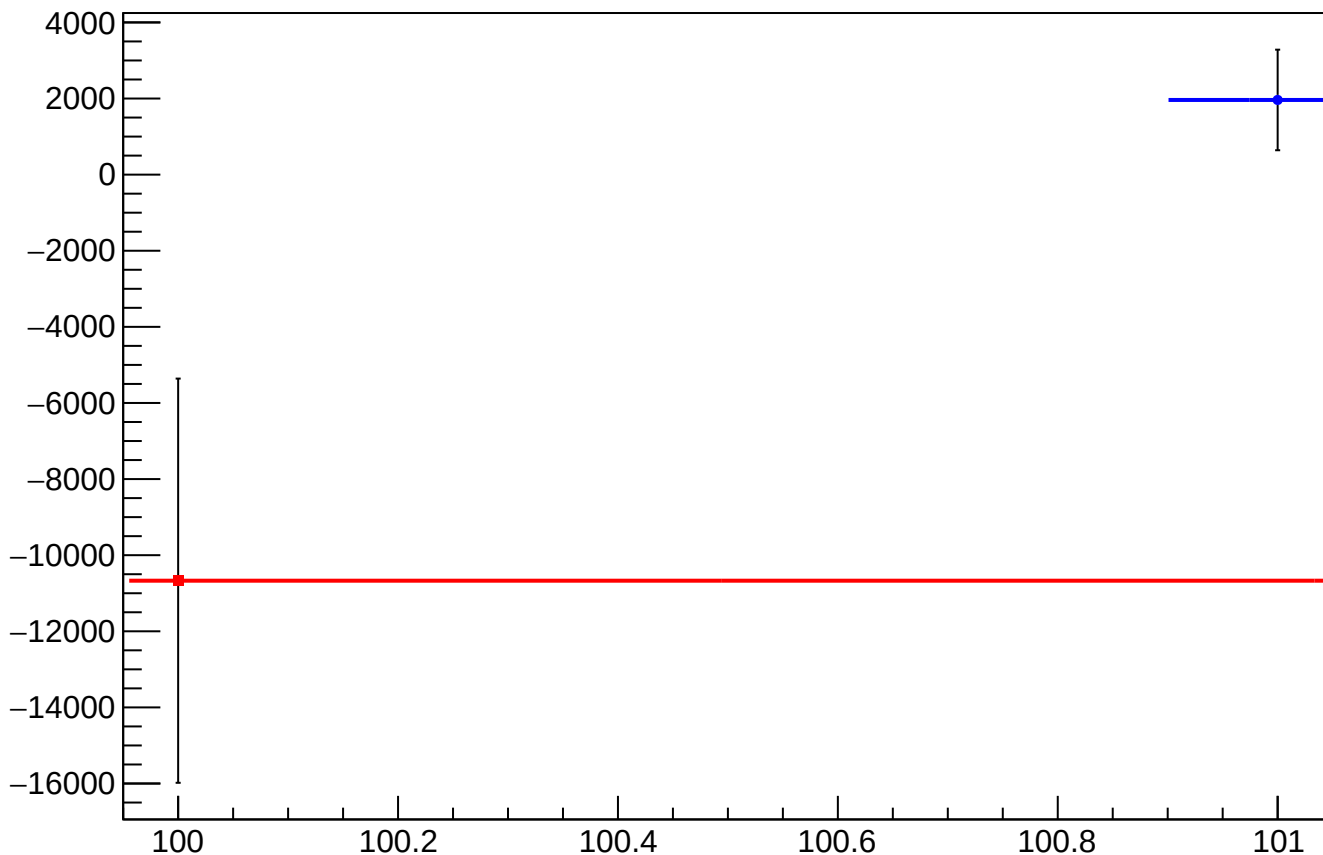
Right: 3188.448 $\pm$ 2.644  $\chi^2$ /NDF: 2147.4/1

In: 3152.894 $\pm$ 2.753  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3188.448 $\pm$ 2.644  $\chi^2$ /NDF: 2147.4/1

asym\_atl\_dd\_atr\_dd\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1962.336+/-1321.461  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10670.349+/-5310.830  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

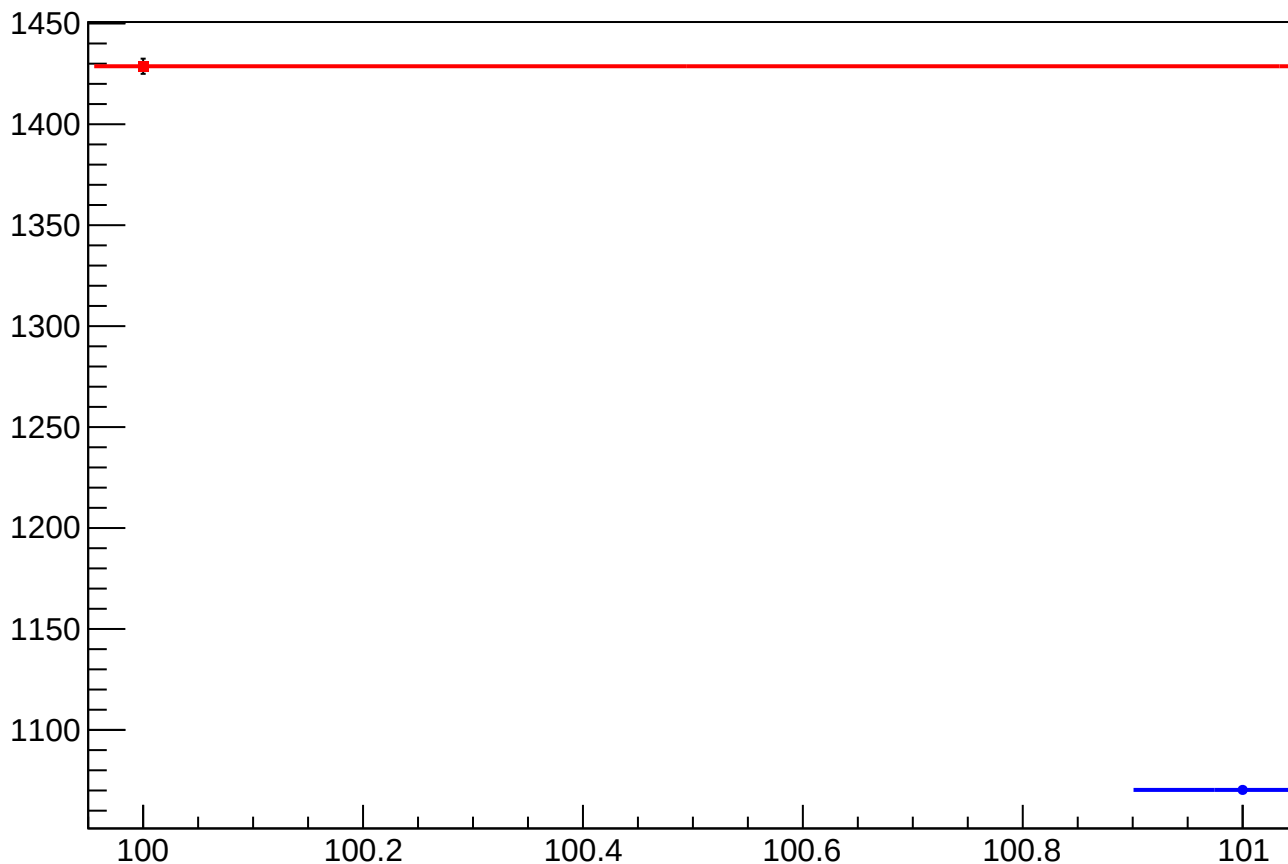
Right: 1225.807+/-1282.359  $\chi^2/\text{NDF}$ : 5.3/1

In: 1962.336+/-1321.461  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1225.807+/-1282.359  $\chi^2/\text{NDF}$ : 5.3/1

asym\_atl\_dd\_atr\_dd\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1070.284 $\pm$ 0.934  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1428.725 $\pm$ 3.755  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1091.182 $\pm$ 0.907  $\chi^2$ /NDF: 8579.3/1

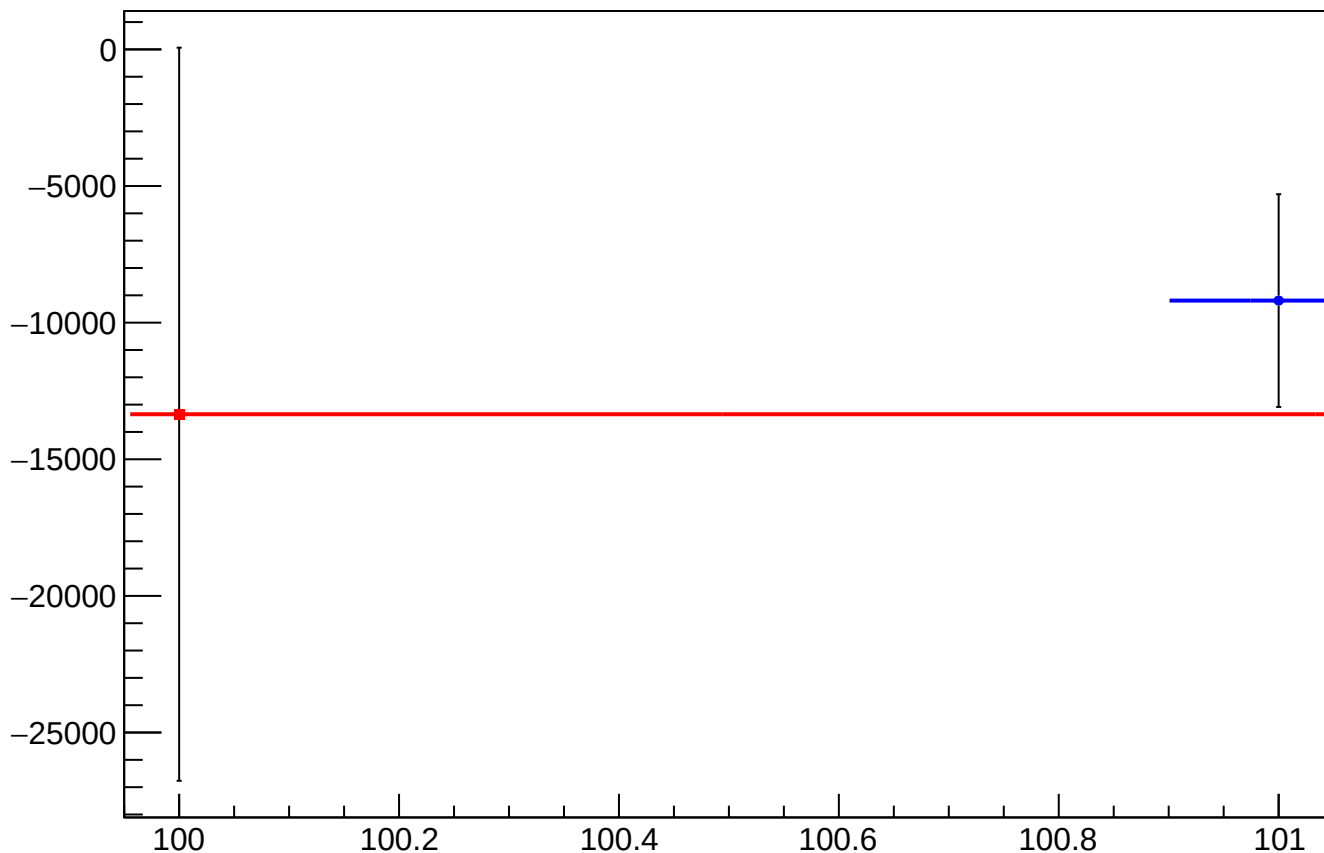
In: 1070.284 $\pm$ 0.934  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1091.182 $\pm$ 0.907  $\chi^2$ /NDF: 8579.3/1



eigen\_cor\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -9192.330+/-3893.138  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -13351.692+/-13415.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

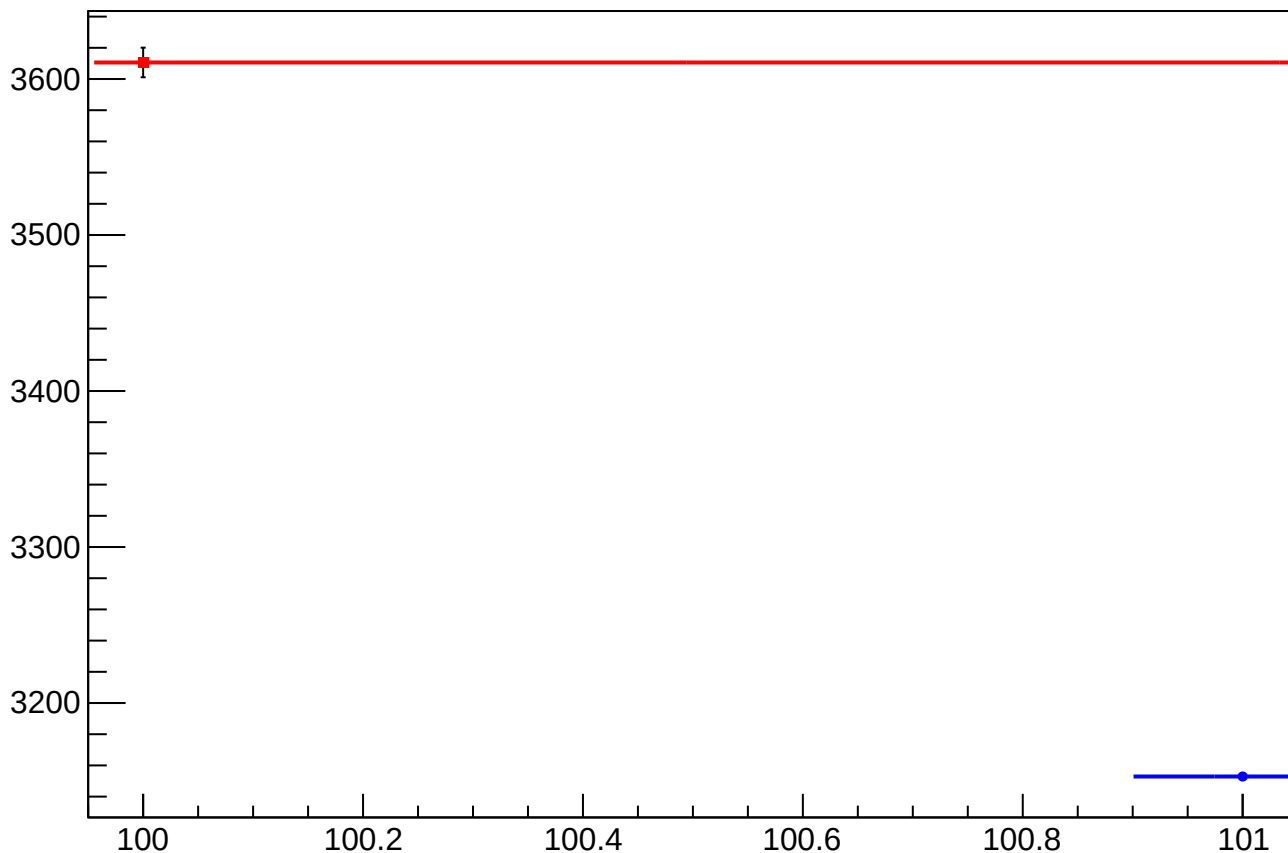
Right: -9515.421+/-3738.877  $\chi^2$ /NDF: 0.1/1

In: -9192.330+/-3893.138  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -9515.421+/-3738.877  $\chi^2$ /NDF: 0.1/1

eigen\_cor\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3152.894 $\pm$ 2.753  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3610.603 $\pm$ 9.486  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

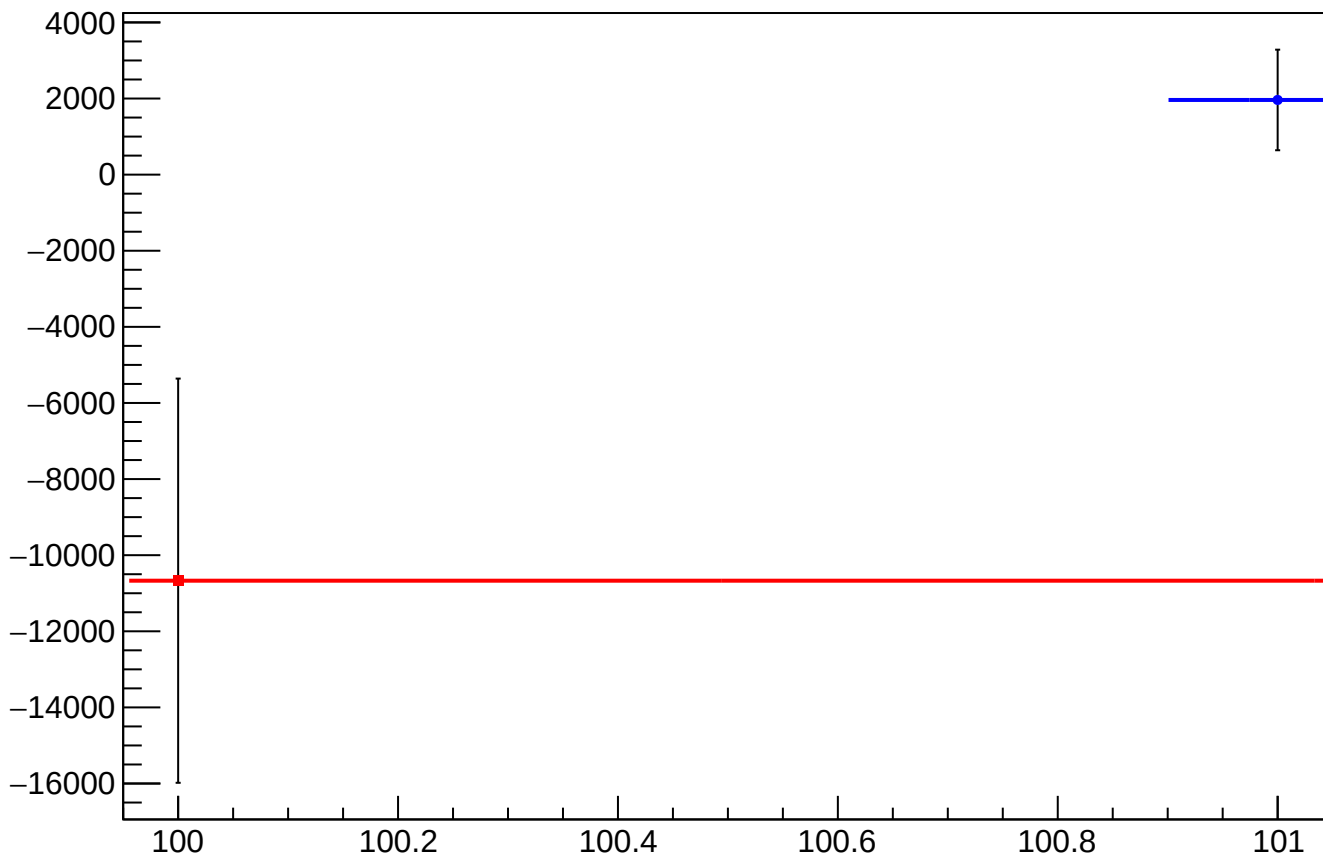
Right: 3188.448 $\pm$ 2.644  $\chi^2$ /NDF: 2147.4/1

In: 3152.894 $\pm$ 2.753  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3188.448 $\pm$ 2.644  $\chi^2$ /NDF: 2147.4/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1962.336 $\pm$ 1321.461  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -10670.349 $\pm$ 5310.830  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

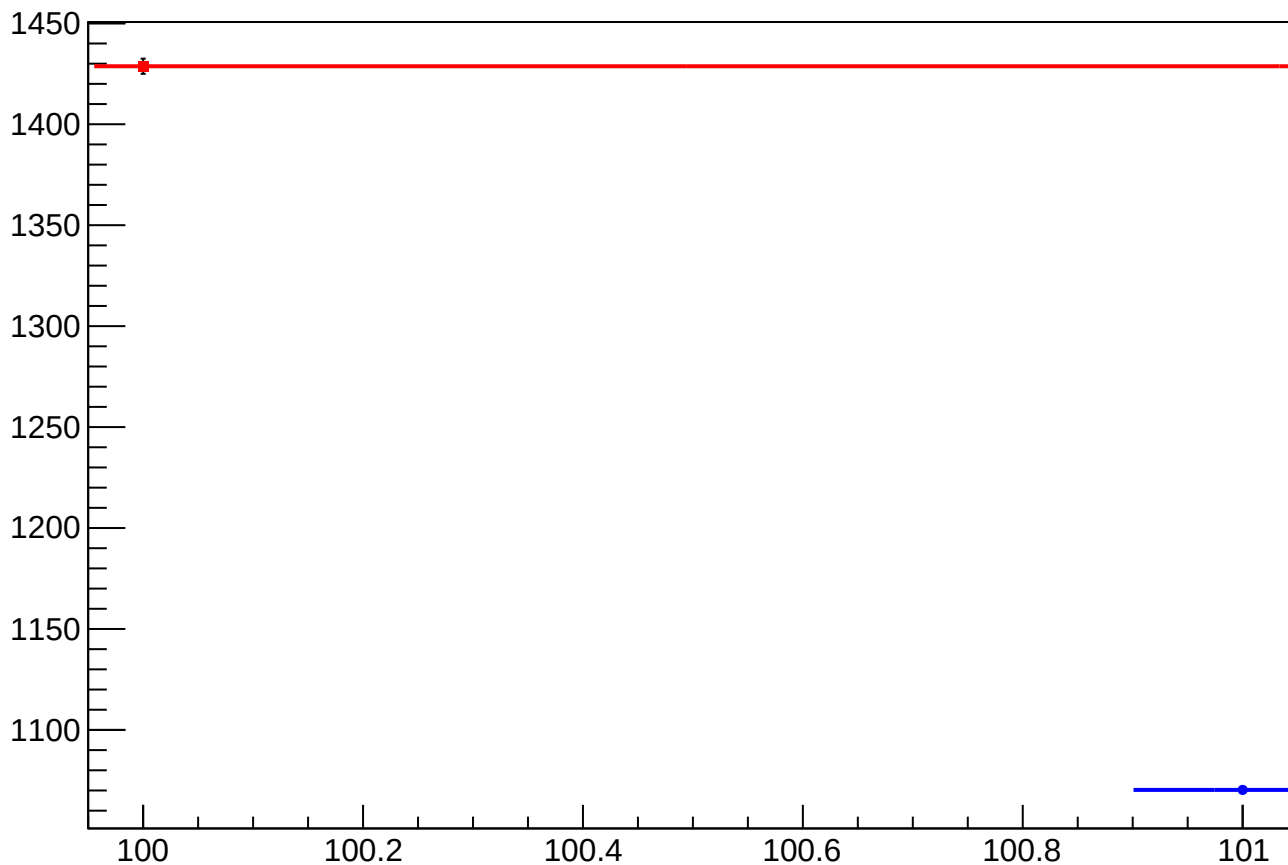
Right: 1225.807 $\pm$ 1282.359  $\chi^2$ /NDF: 5.3/1

In: 1962.336 $\pm$ 1321.461  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1225.807 $\pm$ 1282.359  $\chi^2$ /NDF: 5.3/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1070.284 $\pm$ 0.934  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1428.725 $\pm$ 3.755  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

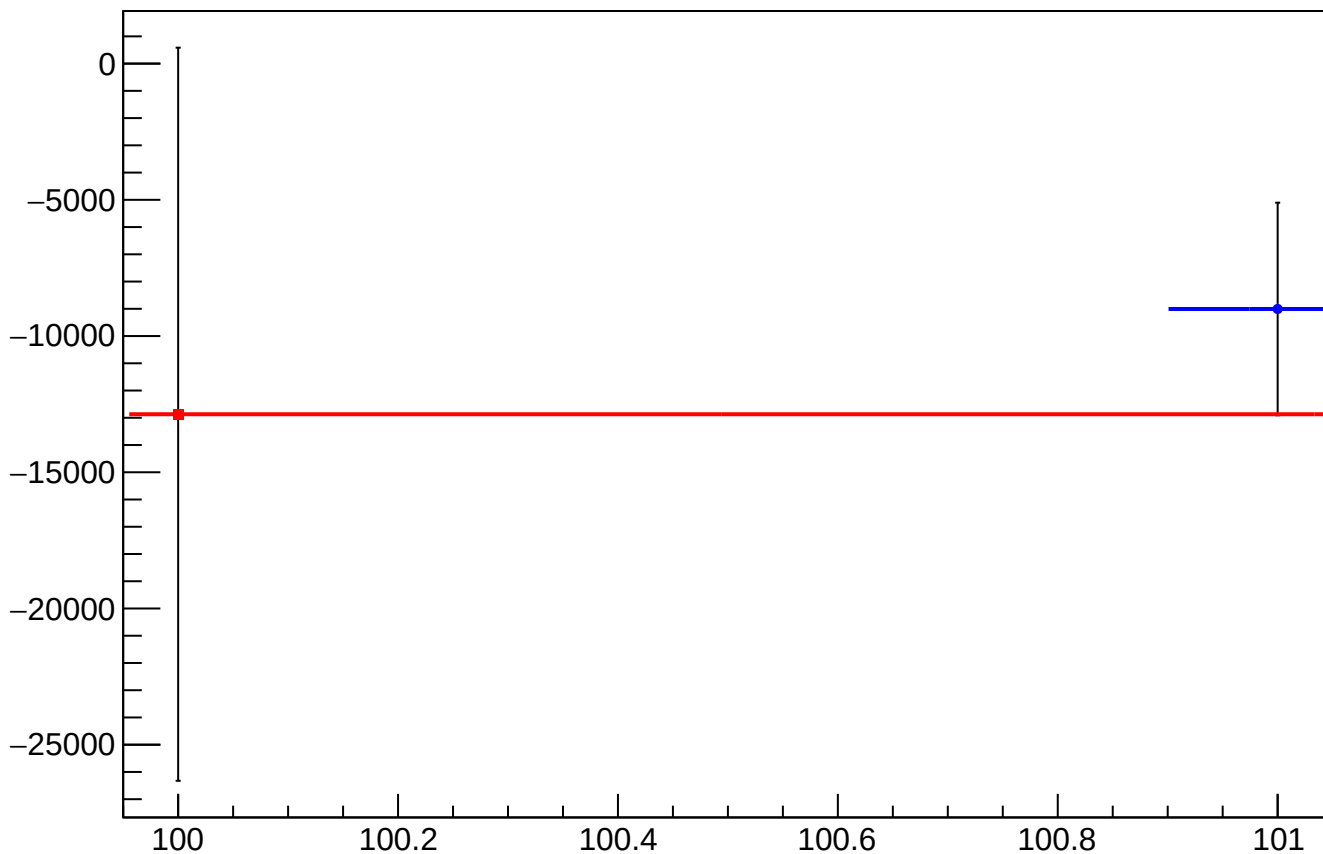
Right: 1091.182 $\pm$ 0.907  $\chi^2$ /NDF: 8579.3/1

In: 1070.284 $\pm$ 0.934  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1091.182 $\pm$ 0.907  $\chi^2$ /NDF: 8579.3/1

dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -9006.465+/-3901.378  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12870.003+/-13454.813  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

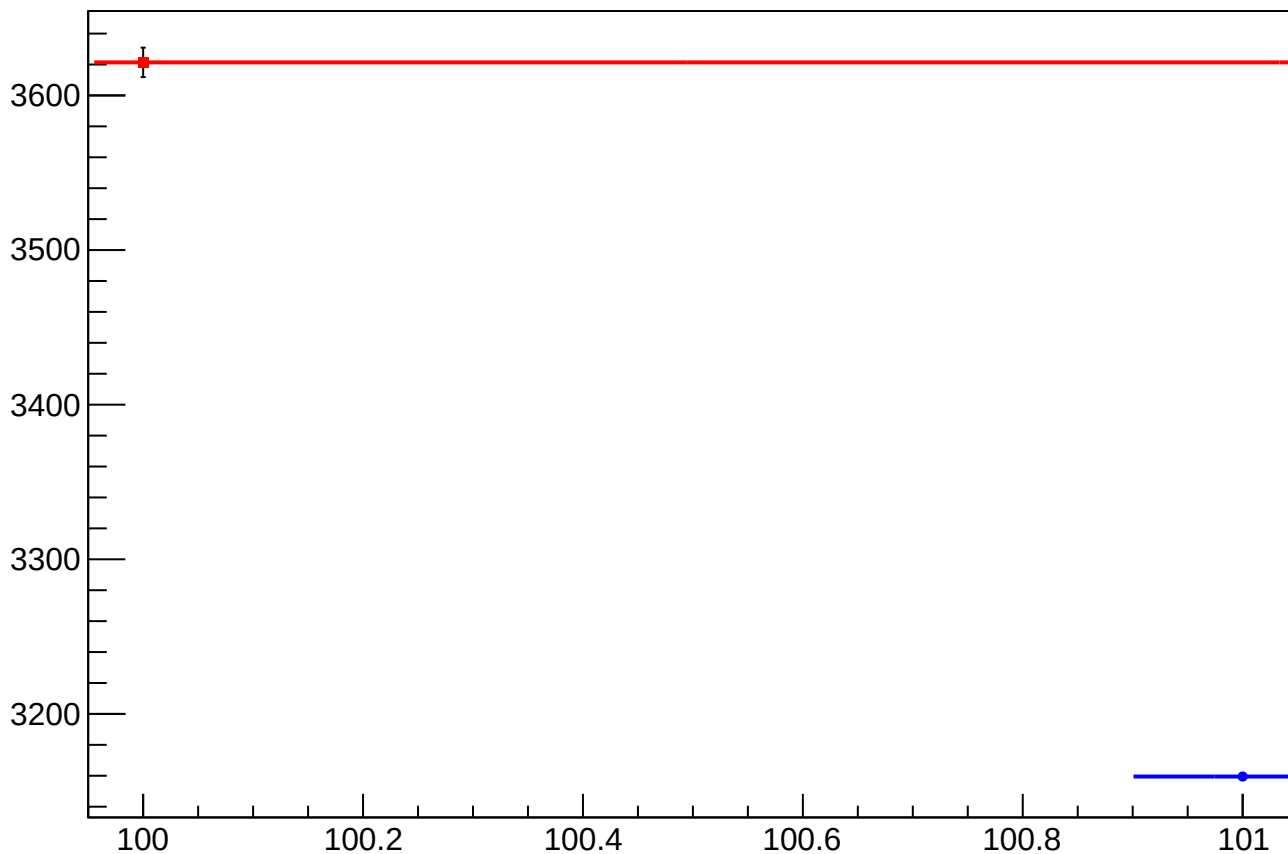
Right: -9306.109+/-3747.036  $\chi^2/\text{NDF}$ : 0.1/1

In: -9006.465+/-3901.378  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9306.109+/-3747.036  $\chi^2/\text{NDF}$ : 0.1/1

dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3159.502 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3621.376 $\pm$ 9.514  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

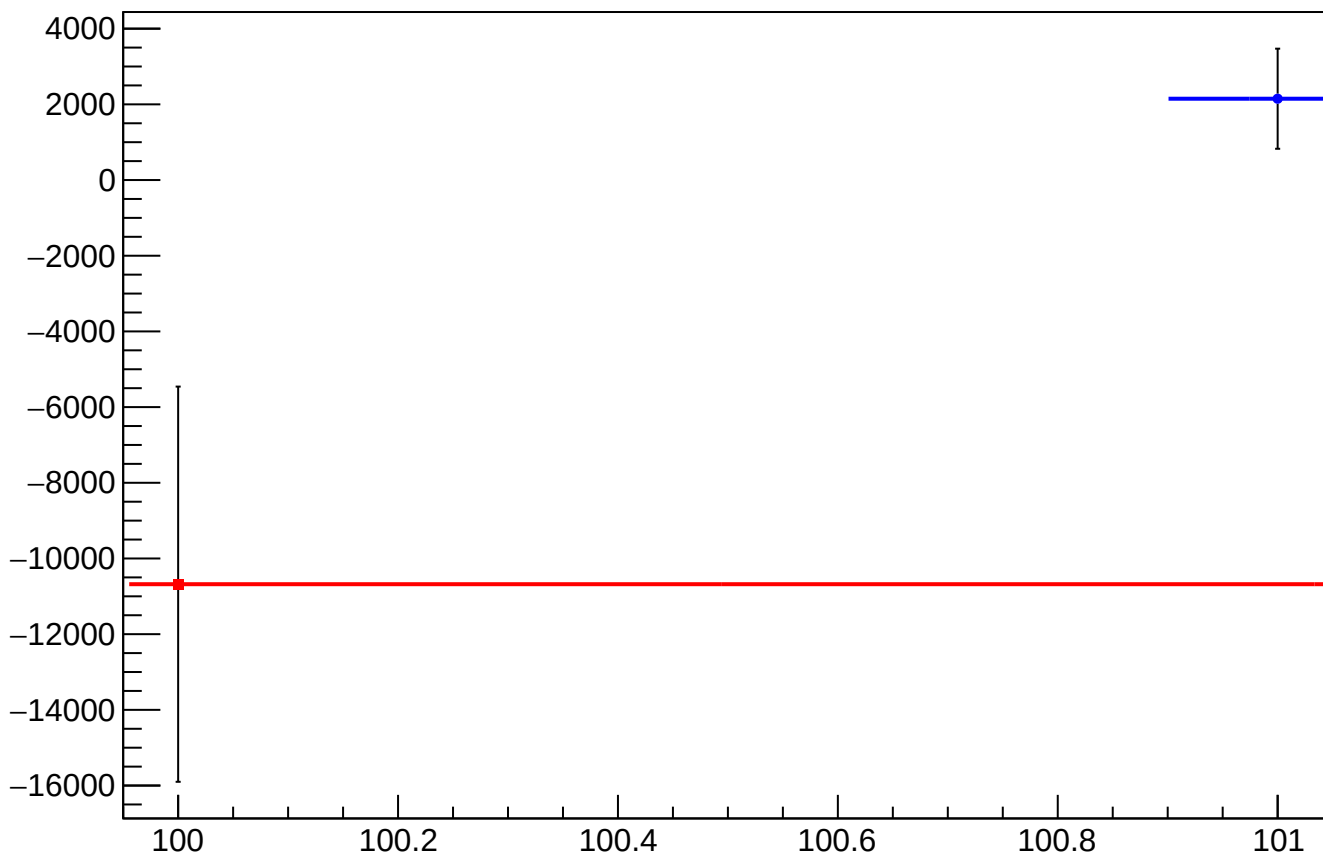
Right: 3195.323 $\pm$ 2.650  $\chi^2$ /NDF: 2174.0/1

In: 3159.502 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3195.323 $\pm$ 2.650  $\chi^2$ /NDF: 2174.0/1

asym\_atl\_dd\_atr\_dd\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2148.585 $\pm$ 1322.623  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -10679.580 $\pm$ 5221.449  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

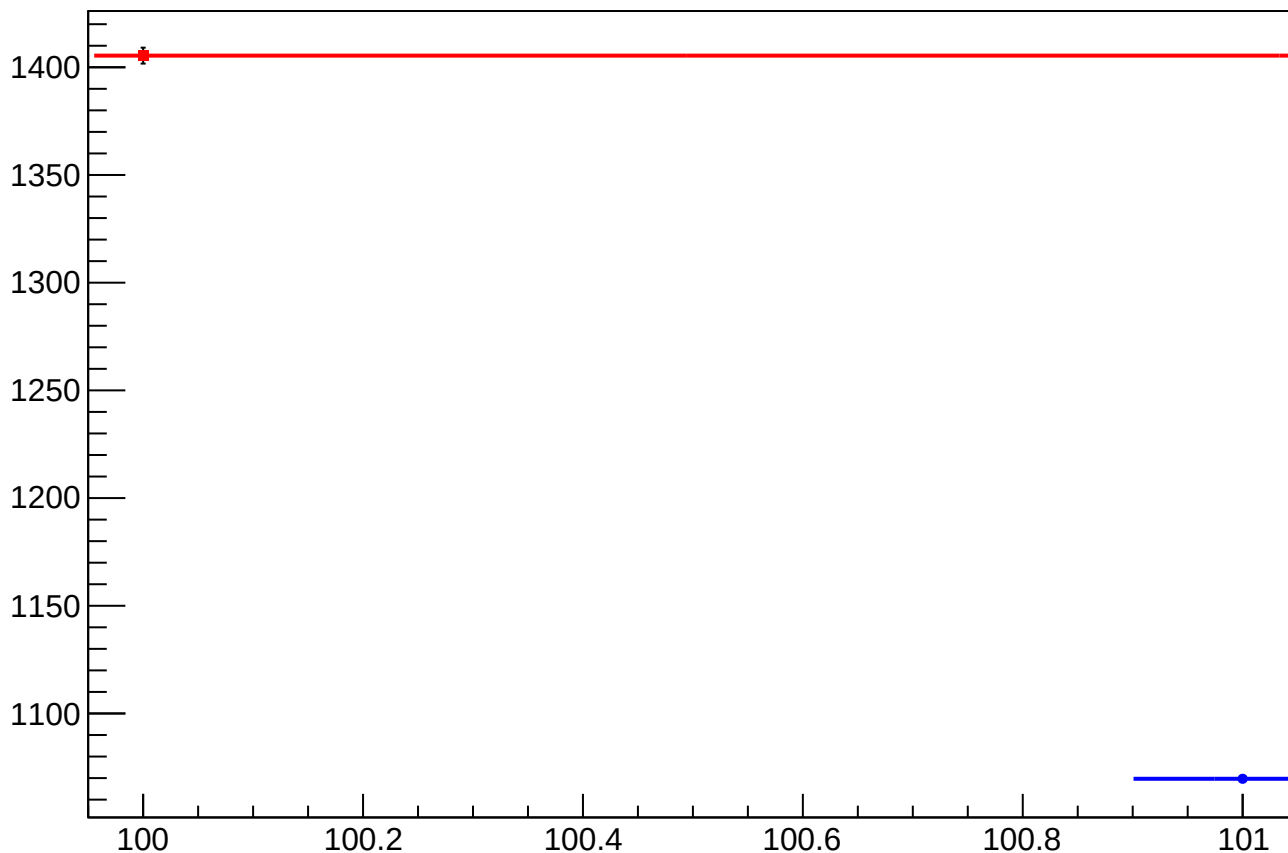
Right: 1375.110 $\pm$ 1282.130  $\chi^2$ /NDF: 5.7/1

In: 2148.585 $\pm$ 1322.623  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1375.110 $\pm$ 1282.130  $\chi^2$ /NDF: 5.7/1

asym\_atl\_dd\_atr\_dd\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1069.680 $\pm$ 0.935  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1405.412 $\pm$ 3.692  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1089.923 $\pm$ 0.907  $\chi^2$ /NDF: 7770.1/1

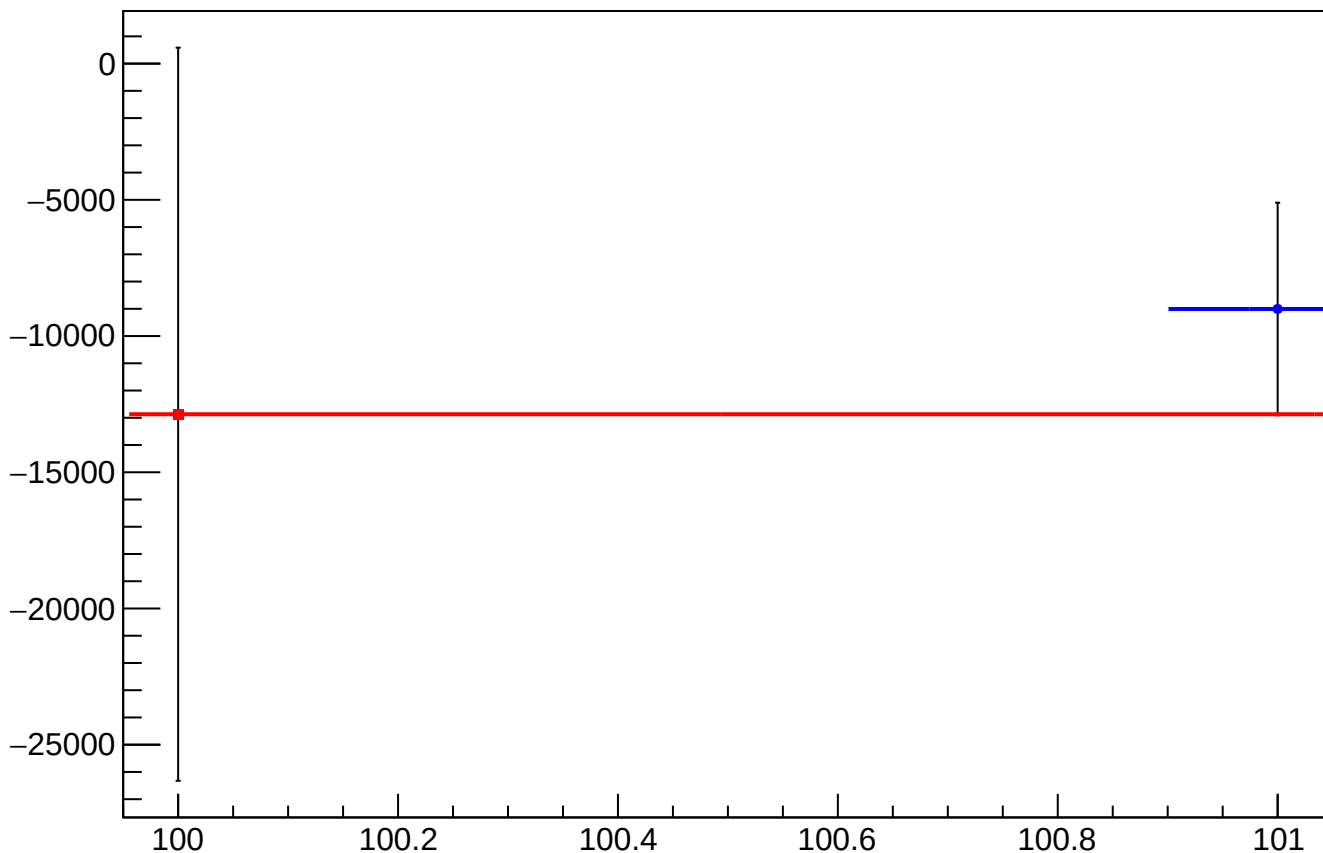
In: 1069.680 $\pm$ 0.935  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1089.923 $\pm$ 0.907  $\chi^2$ /NDF: 7770.1/1



eigen\_dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -9006.489+/-3901.378  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12869.904+/-13454.813  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

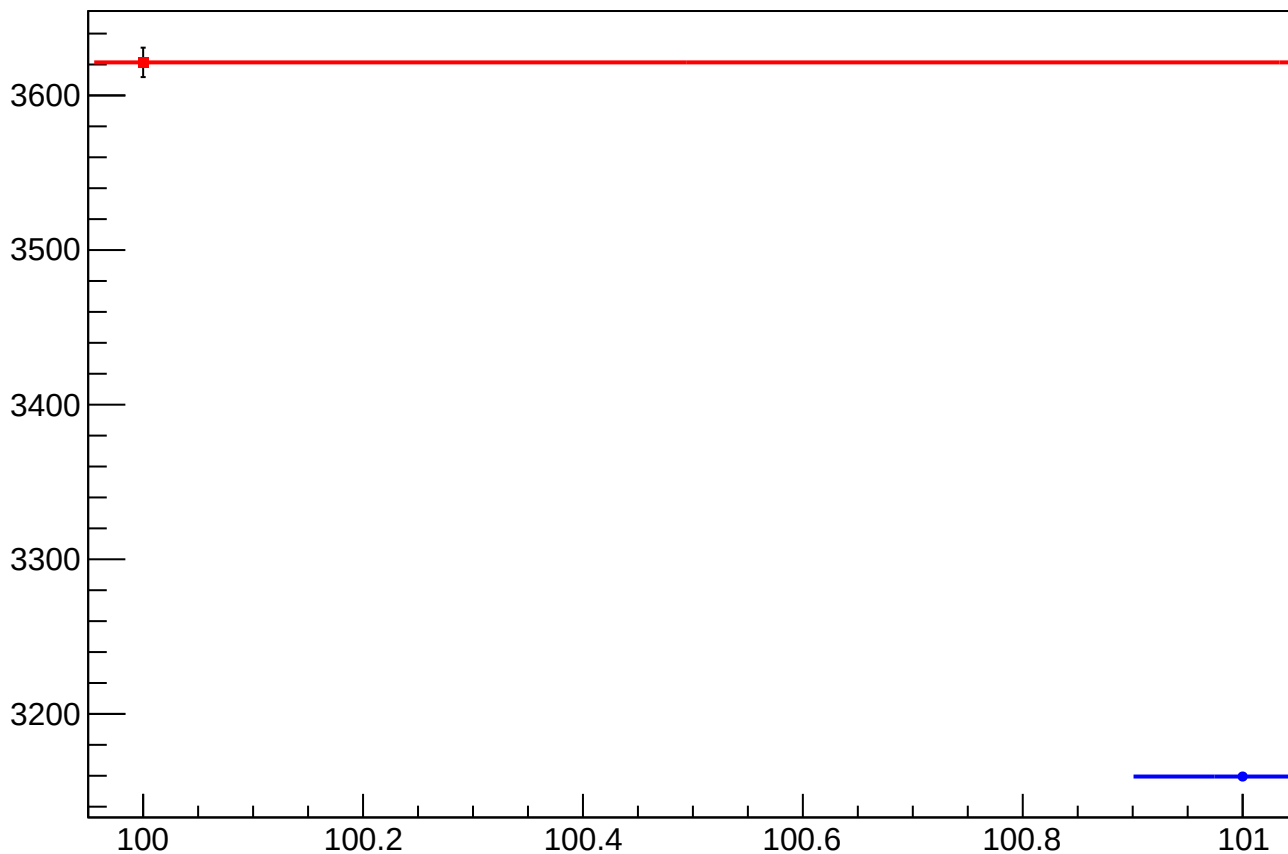
Right: -9306.124+/-3747.036  $\chi^2/\text{NDF}$ : 0.1/1

In: -9006.489+/-3901.378  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9306.124+/-3747.036  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3159.502 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3621.376 $\pm$ 9.514  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

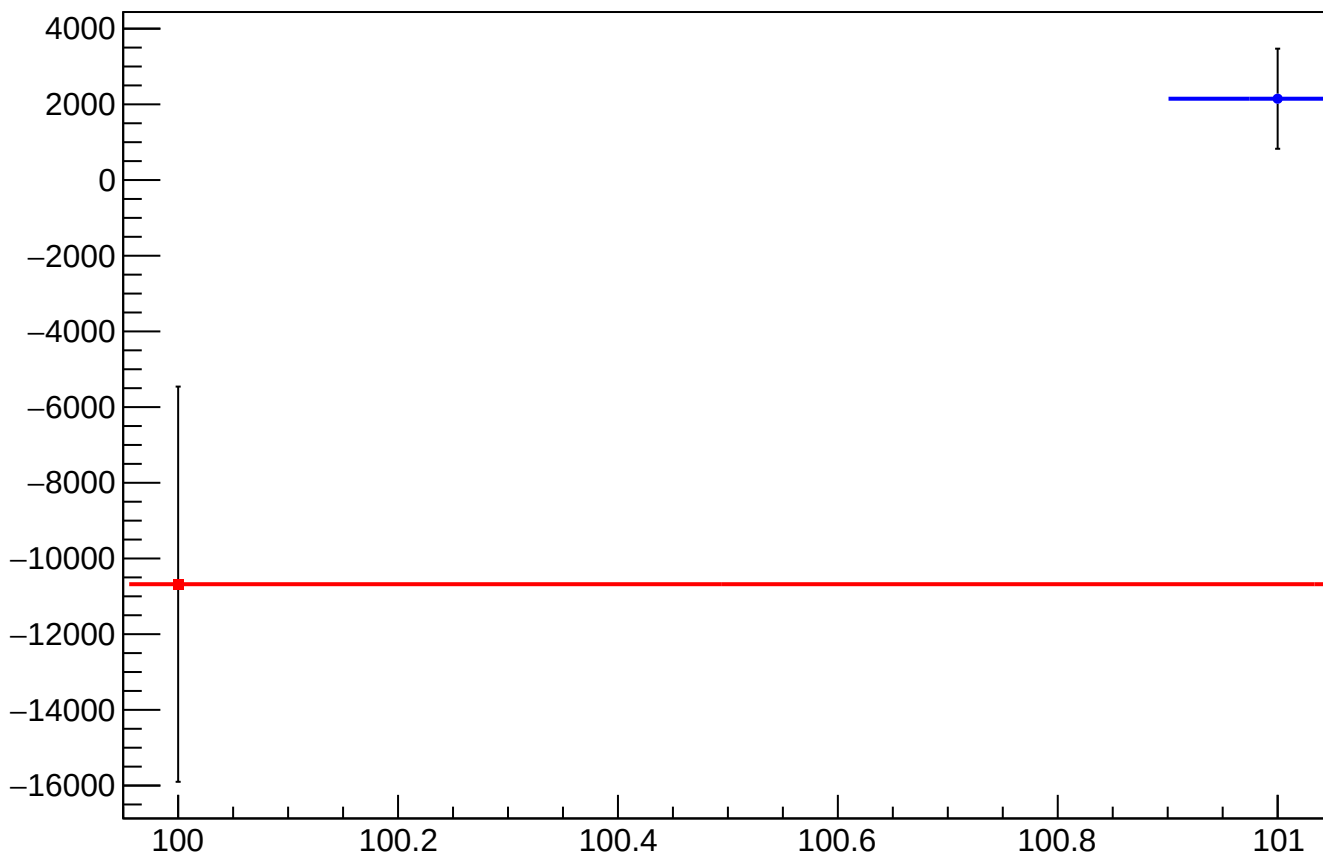
Right: 3195.323 $\pm$ 2.650  $\chi^2$ /NDF: 2174.0/1

In: 3159.502 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3195.323 $\pm$ 2.650  $\chi^2$ /NDF: 2174.0/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2148.567+/-1322.613  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10679.481+/-5221.402  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

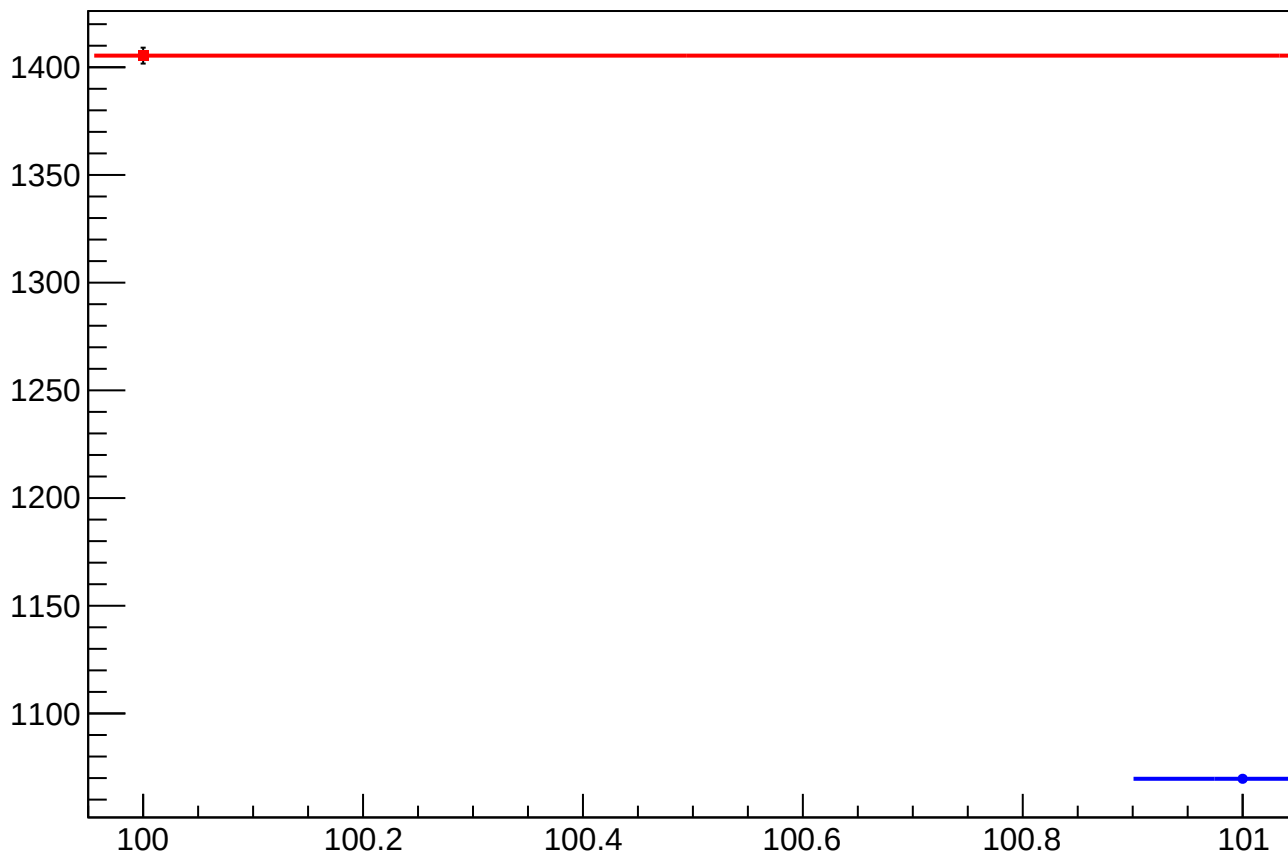
Right: 1375.097+/-1282.120  $\chi^2/\text{NDF}$ : 5.7/1

In: 2148.567+/-1322.613  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1375.097+/-1282.120  $\chi^2/\text{NDF}$ : 5.7/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1069.671 $\pm$ 0.935  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1405.399 $\pm$ 3.692  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

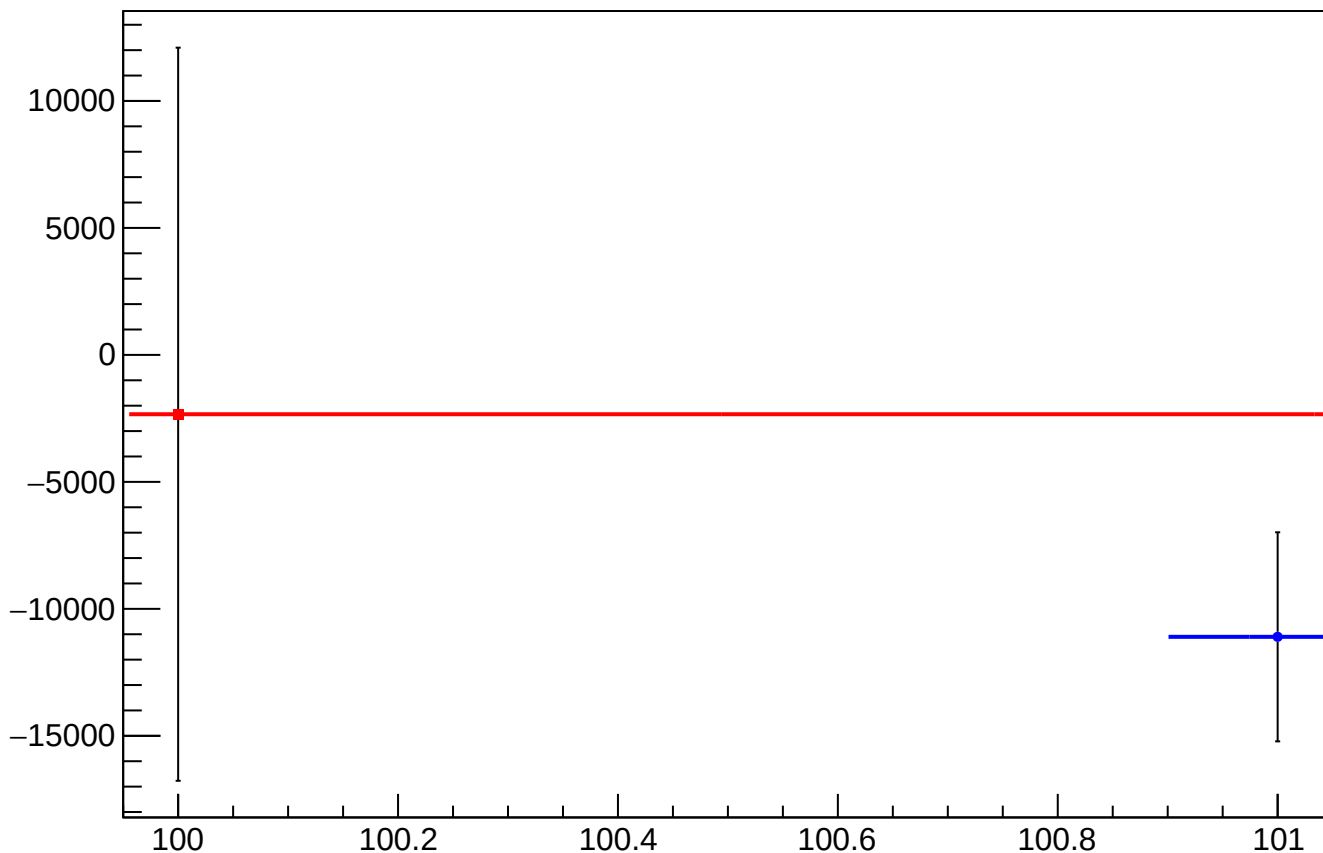
Right: 1089.914 $\pm$ 0.907  $\chi^2$ /NDF: 7770.0/1

In: 1069.671 $\pm$ 0.935  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1089.914 $\pm$ 0.907  $\chi^2$ /NDF: 7770.0/1

asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -11101.605+/-4116.362  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2336.449+/-14434.392  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

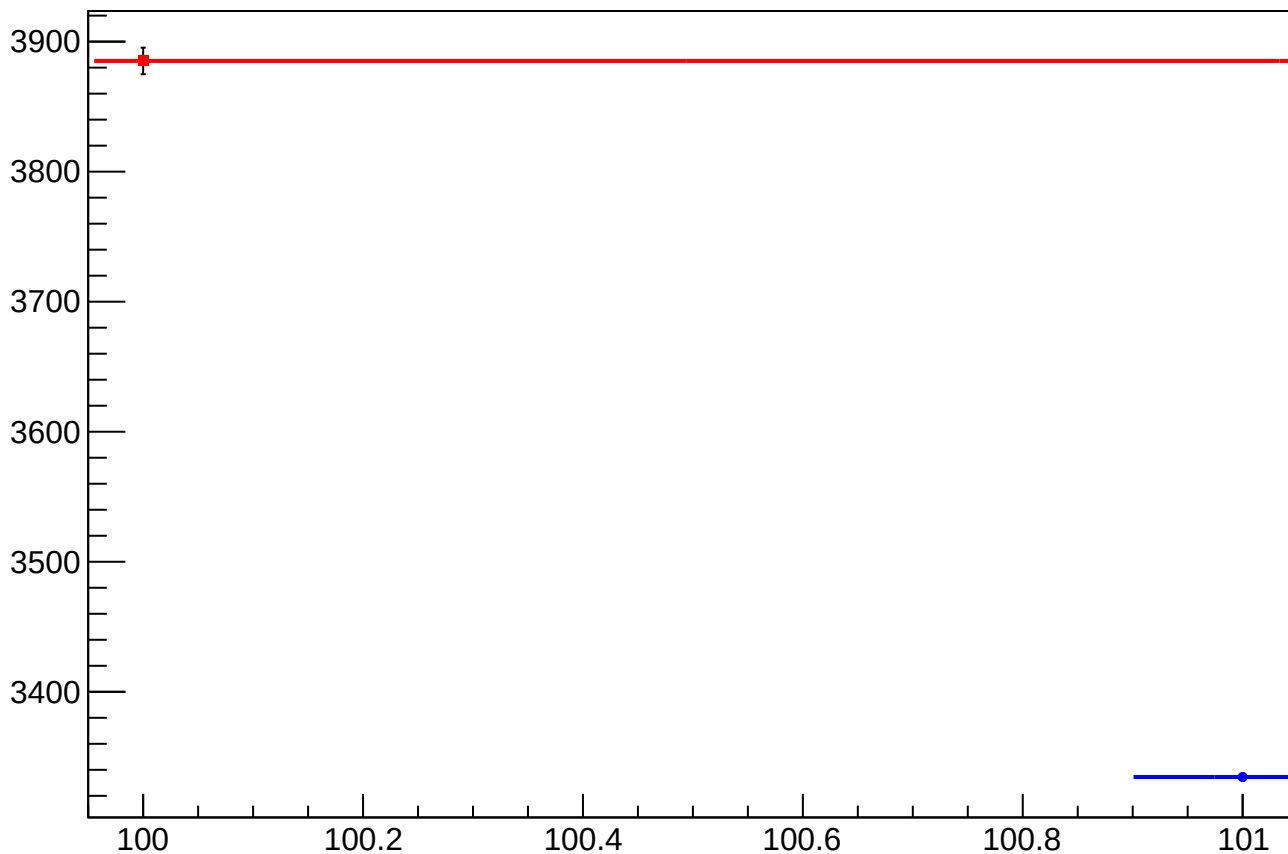
Right: -10442.381+/-3958.542  $\chi^2/\text{NDF}$ : 0.3/1

In: -11101.605+/-4116.362  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10442.381+/-3958.542  $\chi^2/\text{NDF}$ : 0.3/1

asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3334.470+/-2.911  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3885.140+/-10.207  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

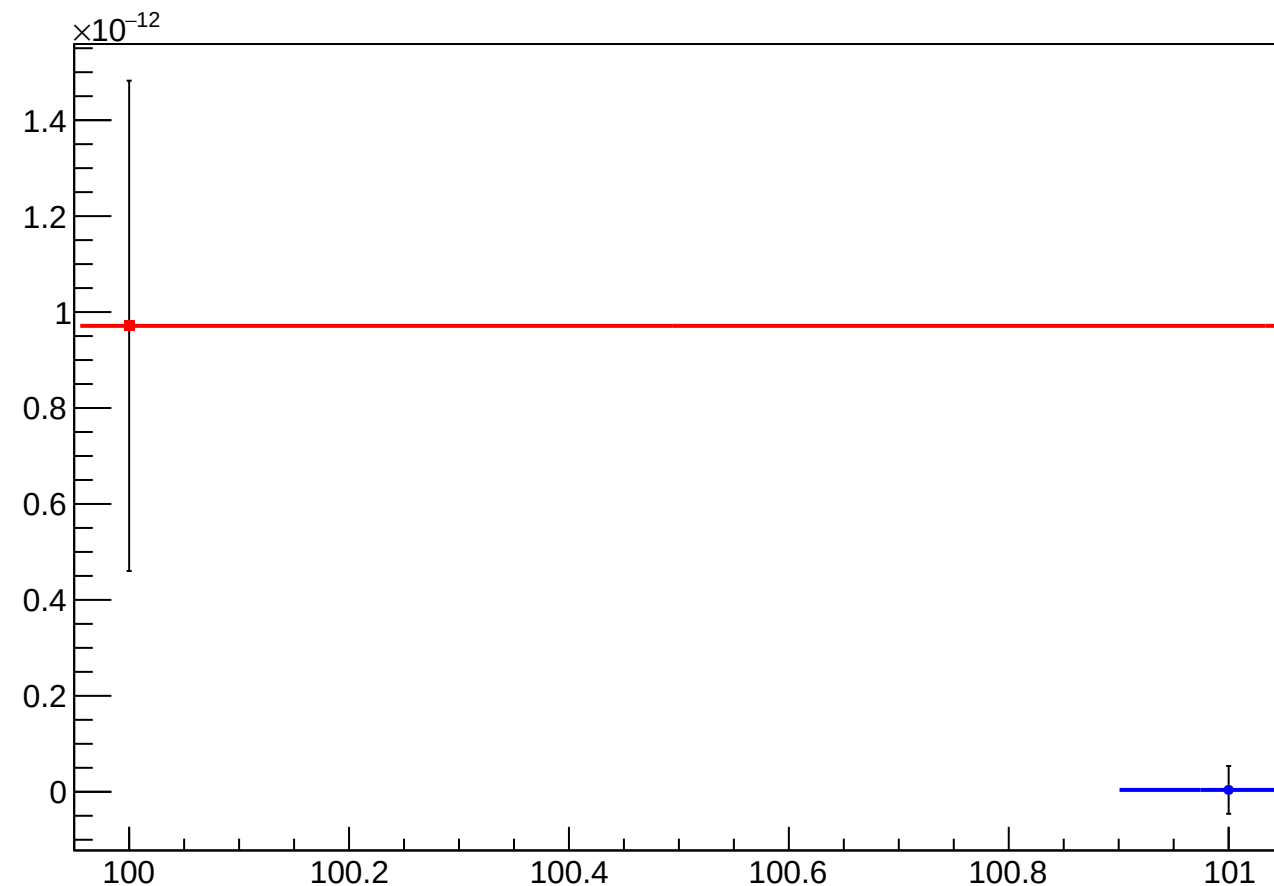
Right: 3375.886+/-2.799  $\chi^2$ /NDF: 2691.9/1

In: 3334.470+/-2.911  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 3375.886+/-2.799  $\chi^2$ /NDF: 2691.9/1

asym\_atl\_dd\_atr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

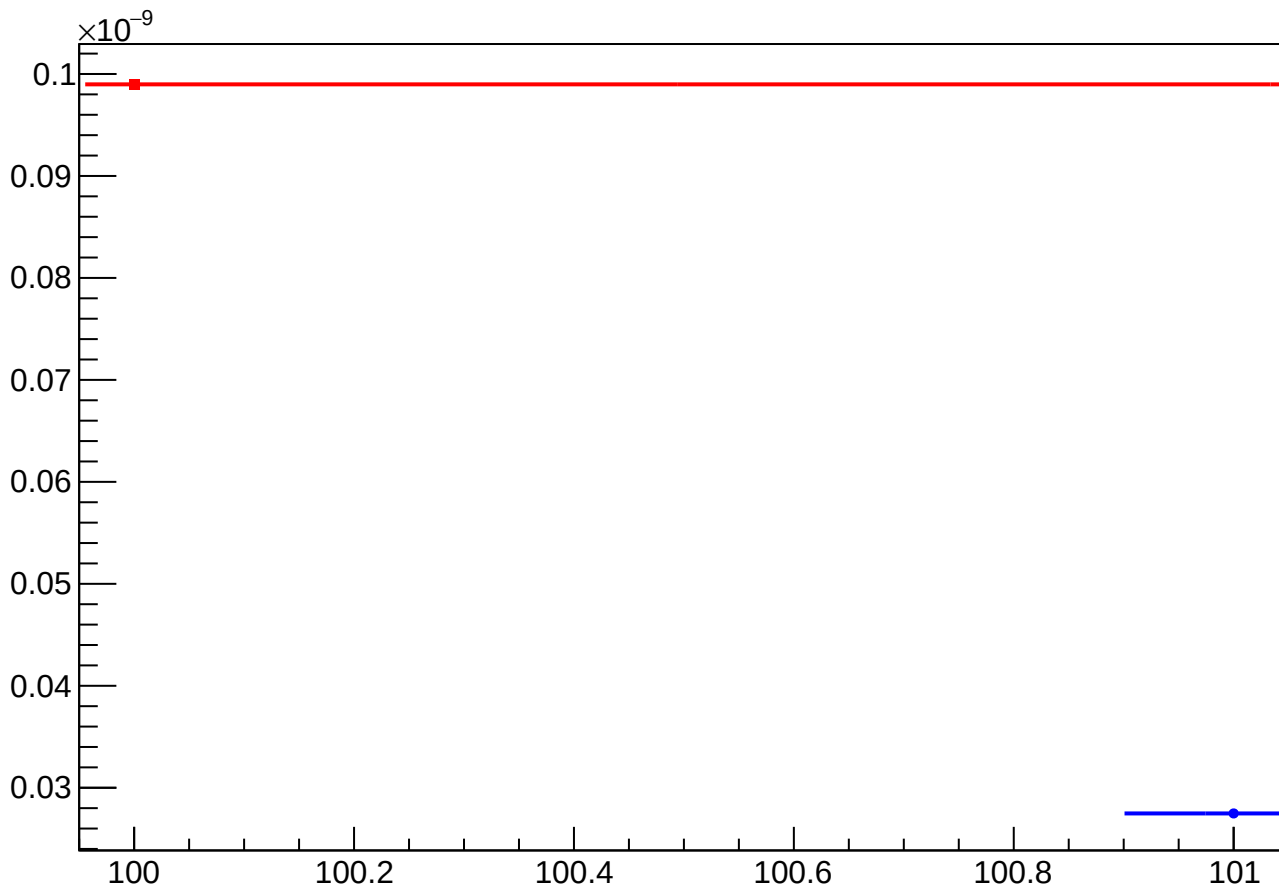
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.5/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.5/1

asym\_atl\_dd\_atr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38779.0/1

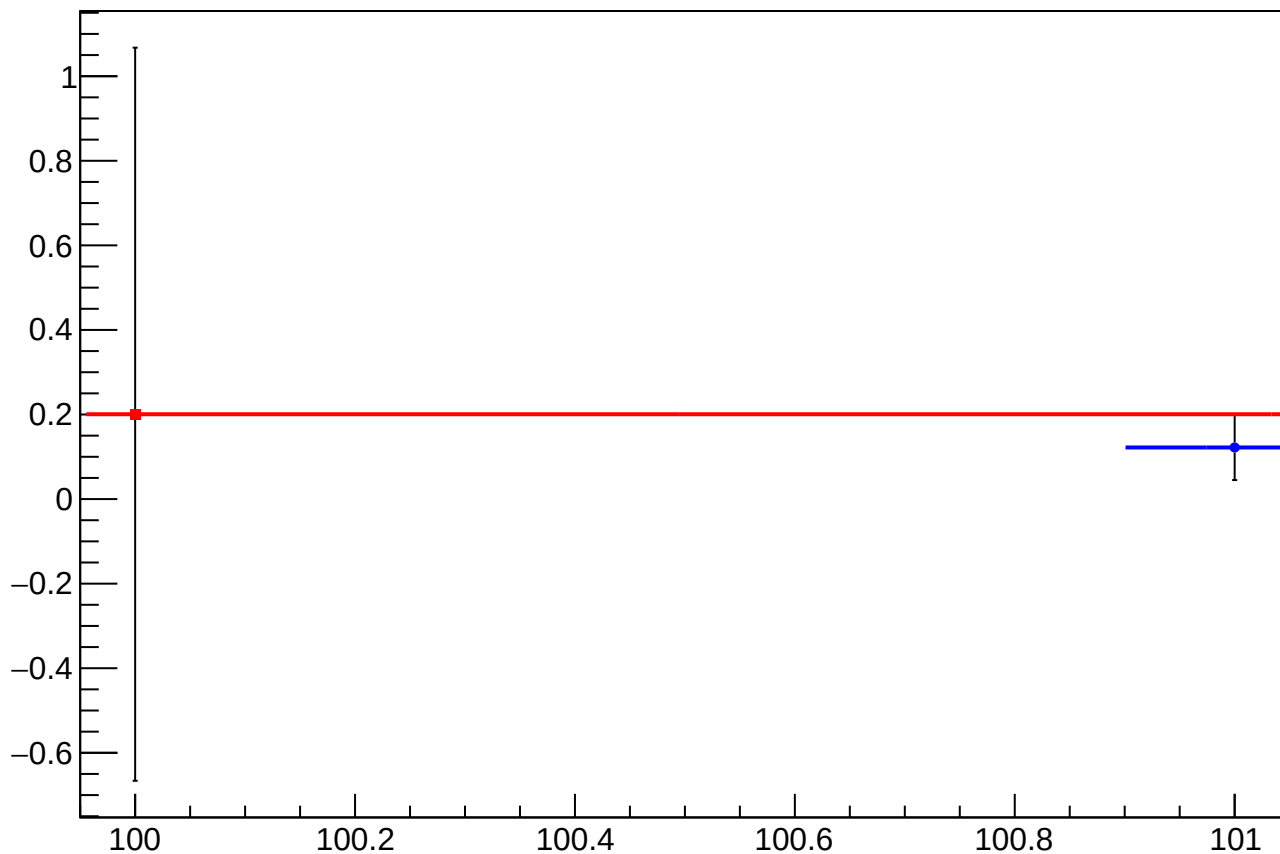
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38779.0/1



asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.201+/-0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

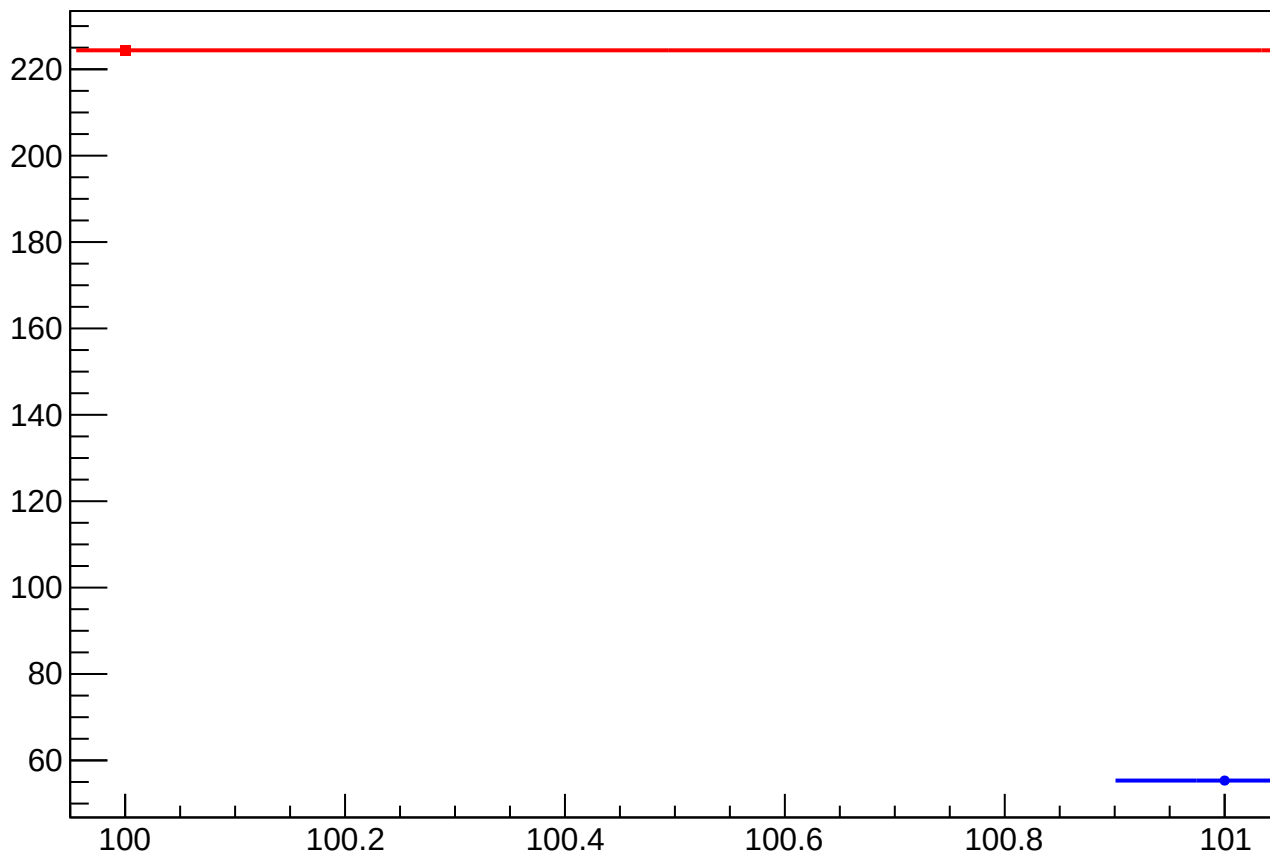
Right: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 55.327+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 224.388+/-0.613  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

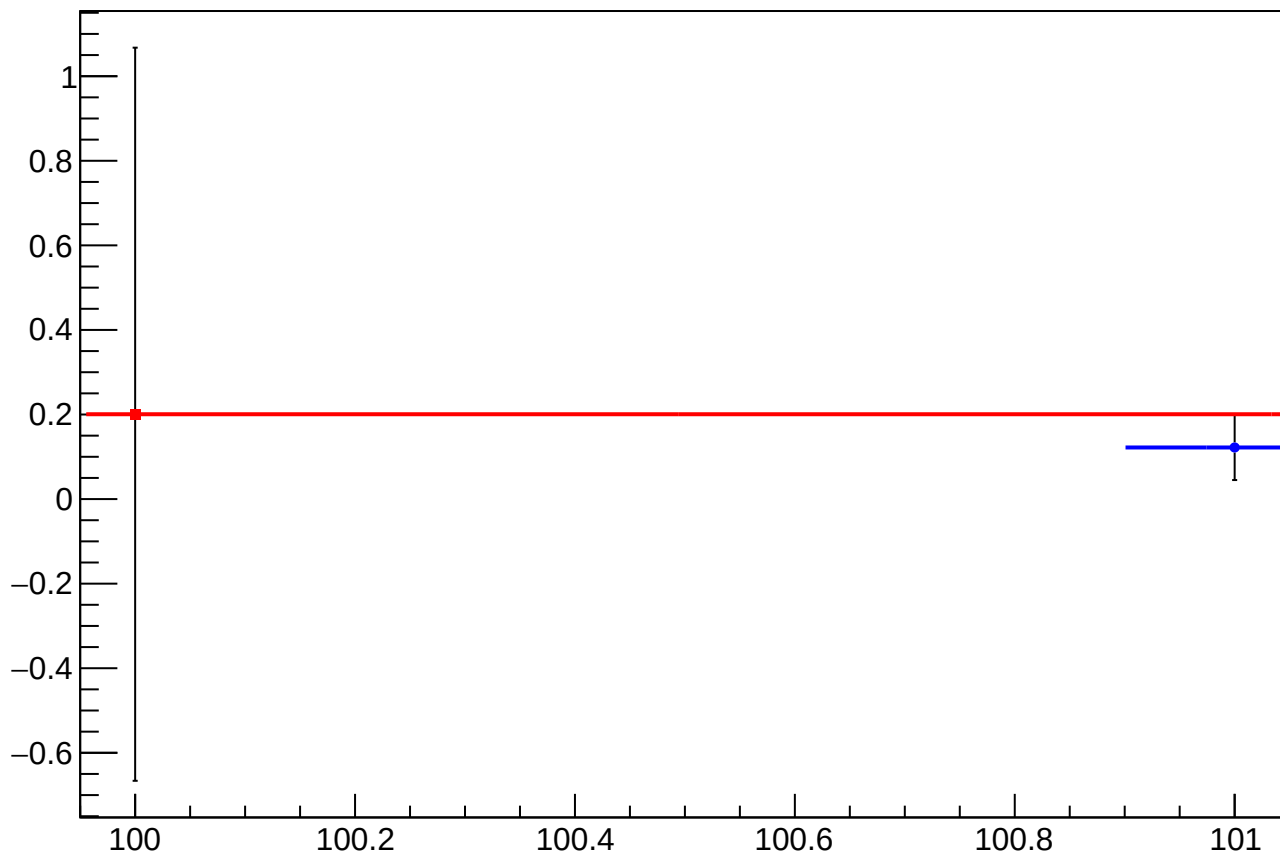
Right: 56.651+/-0.054  $\chi^2/\text{NDF}$ : 75476.8/1

In: 55.327+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.651+/-0.054  $\chi^2/\text{NDF}$ : 75476.8/1

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.201+/-0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

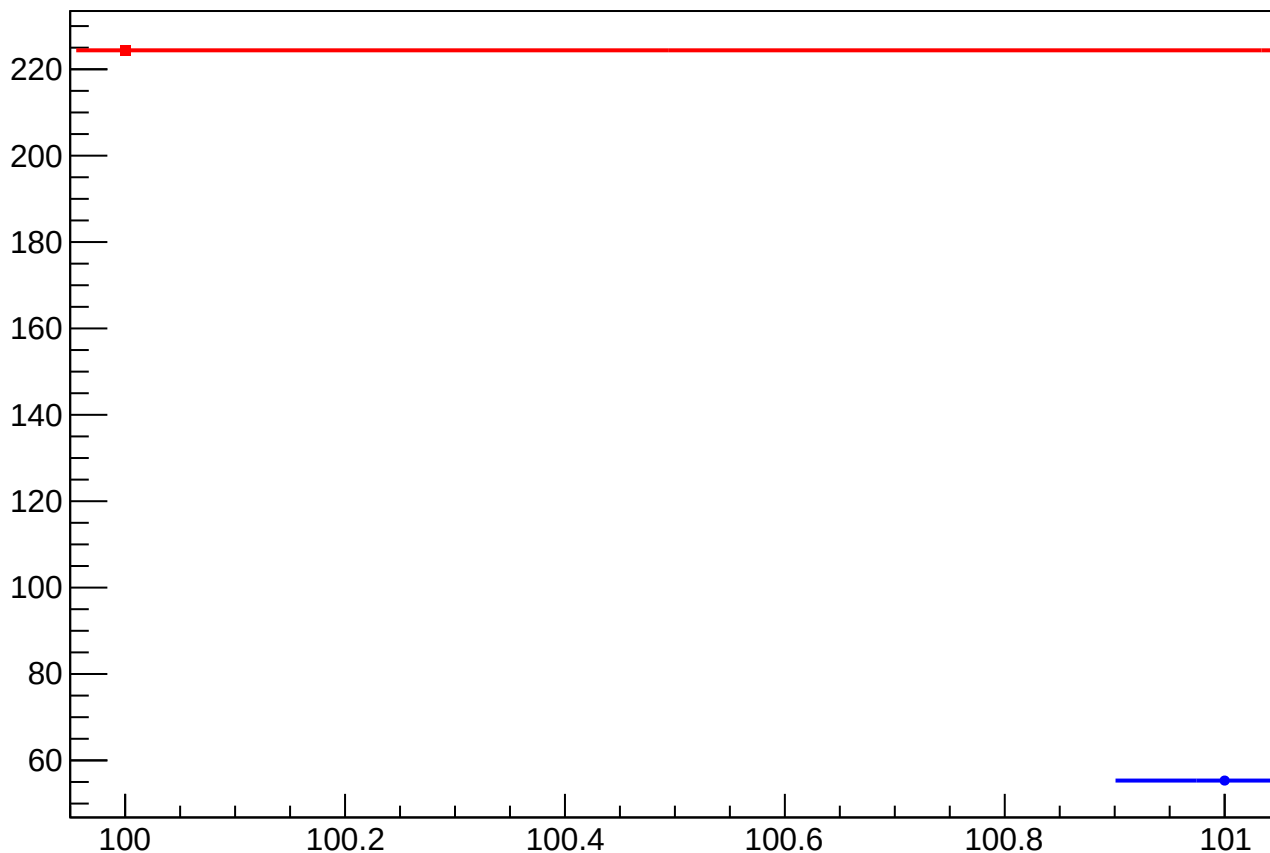
Right: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_dd\_atr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 55.327 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 224.388 $\pm$ 0.613  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

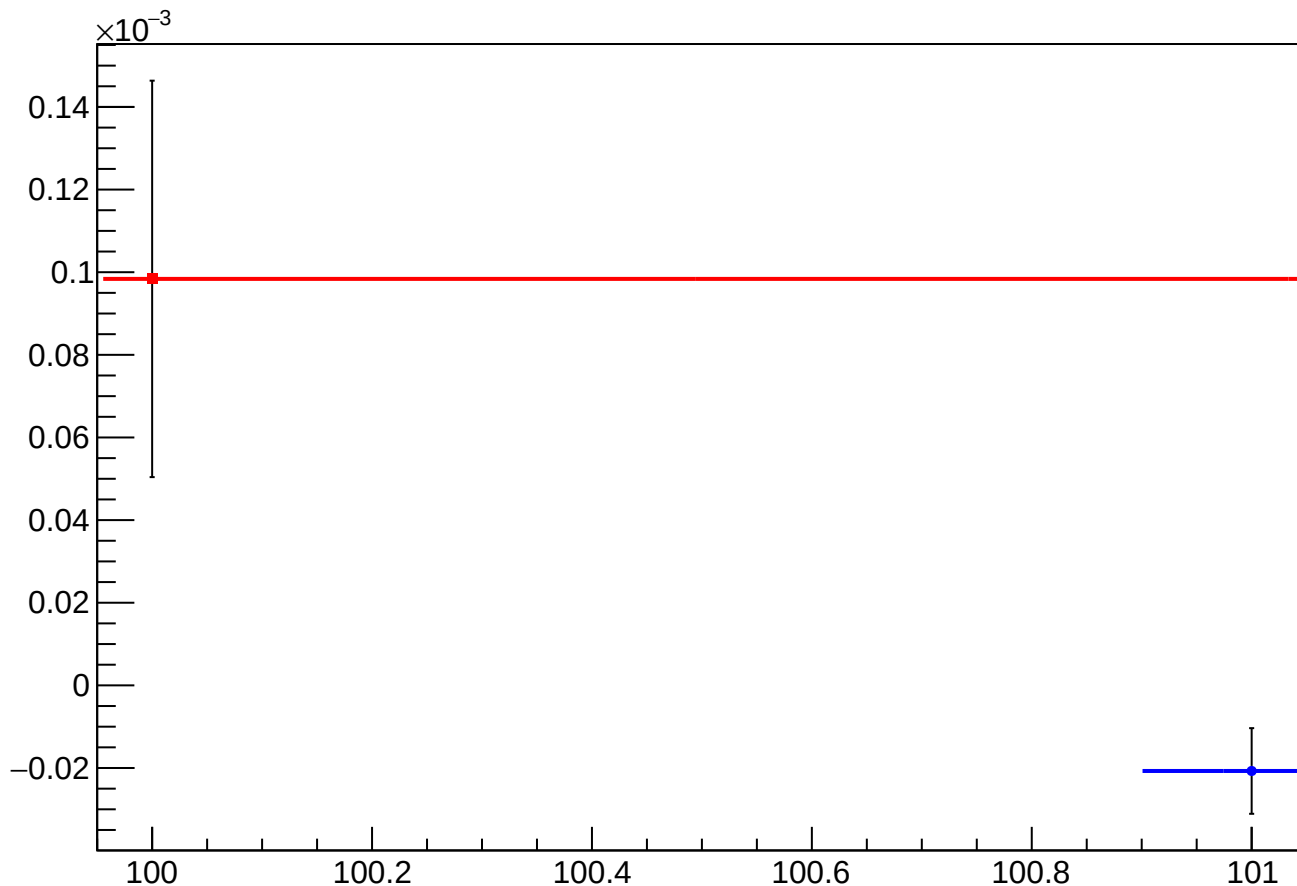
Right: 56.651 $\pm$ 0.054  $\chi^2$ /NDF: 75476.8/1

In: 55.327 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.651 $\pm$ 0.054  $\chi^2$ /NDF: 75476.8/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

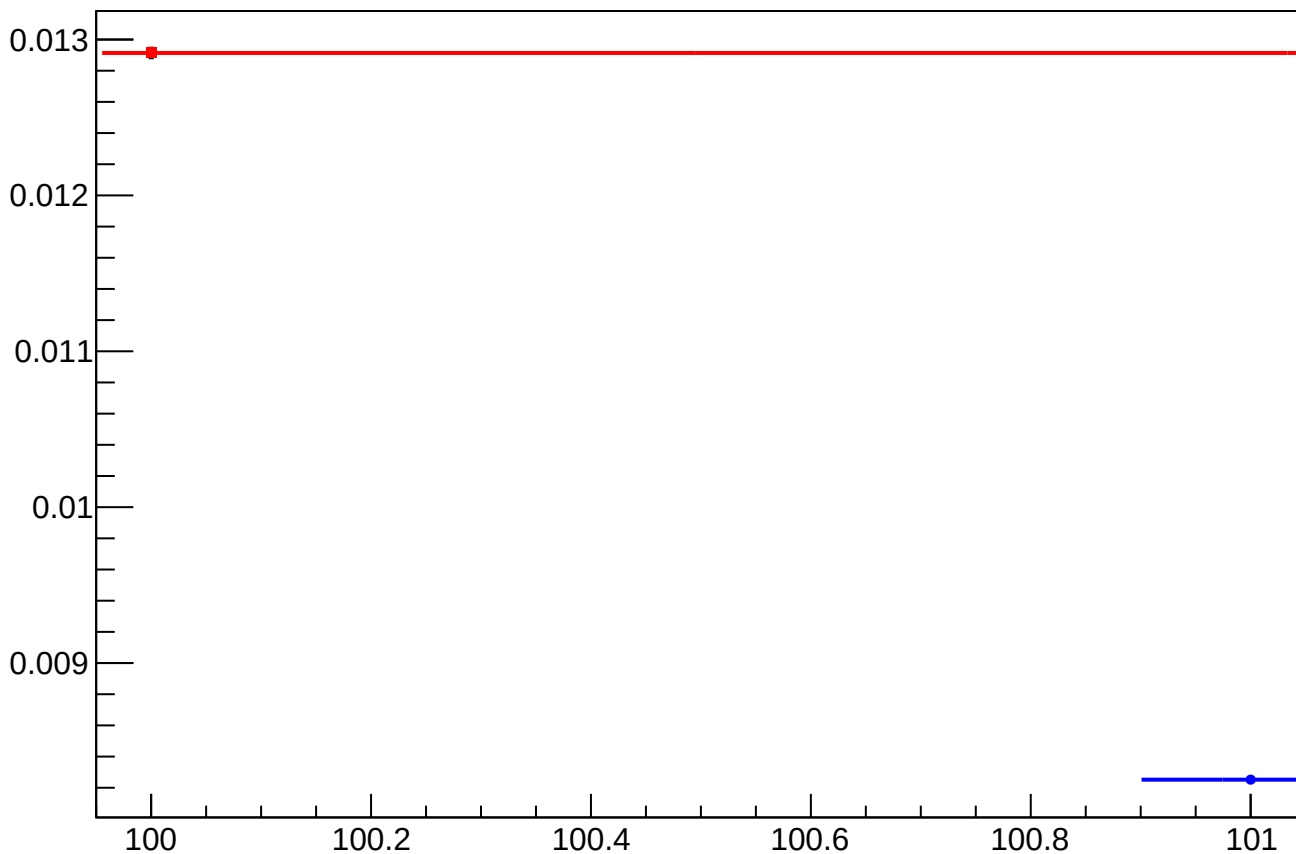
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.9/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

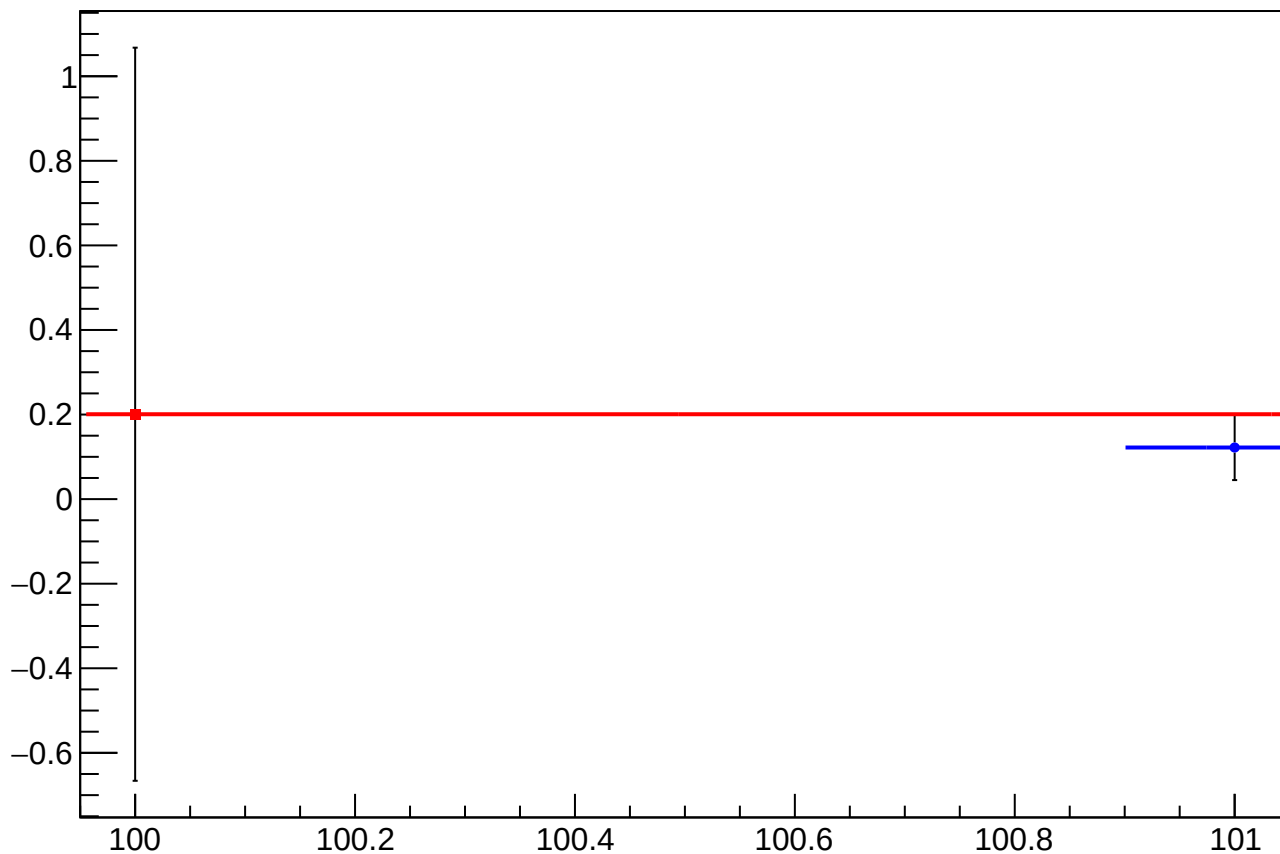
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 18041.7/1

In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 18041.7/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.201+/-0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

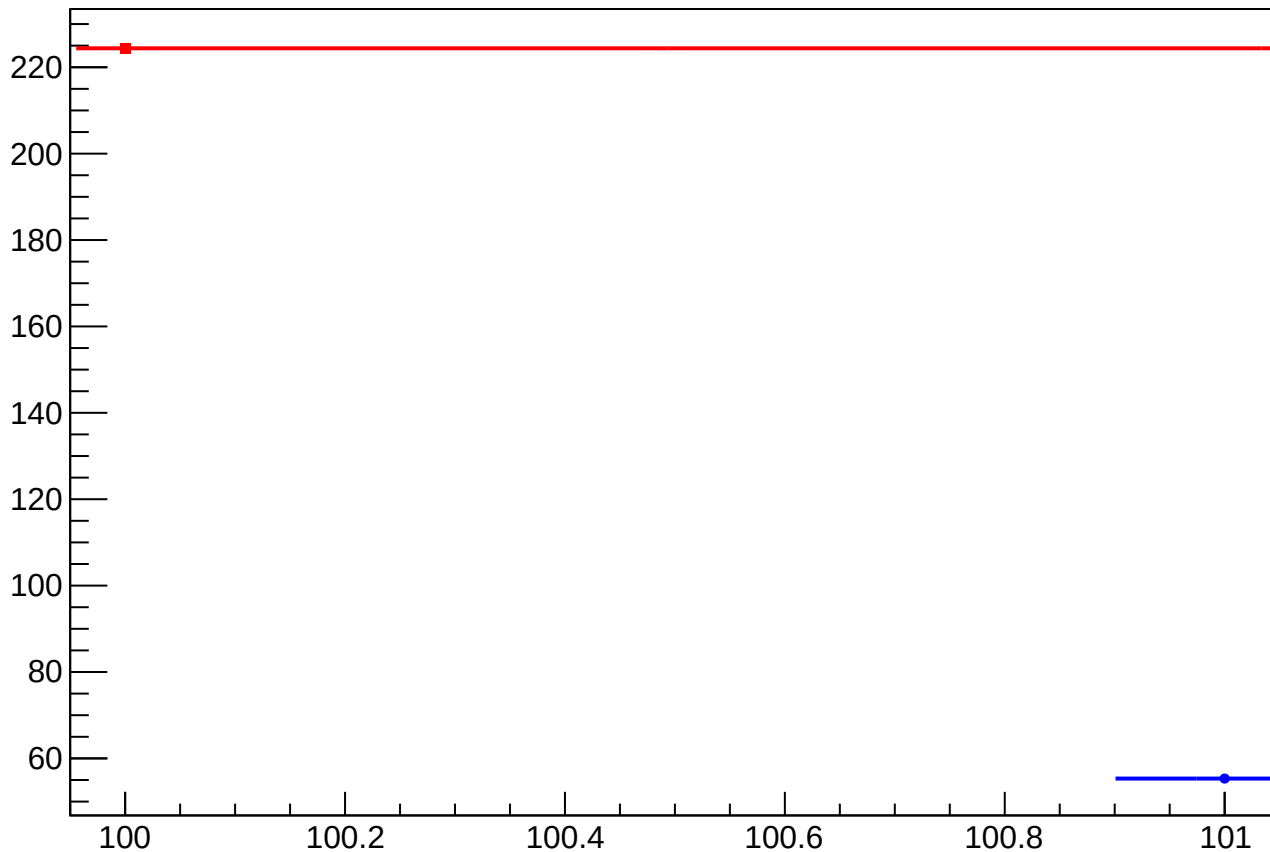
Right: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 55.331+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 224.383+/-0.613  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 56.655+/-0.054  $\chi^2/\text{NDF}$ : 75471.9/1

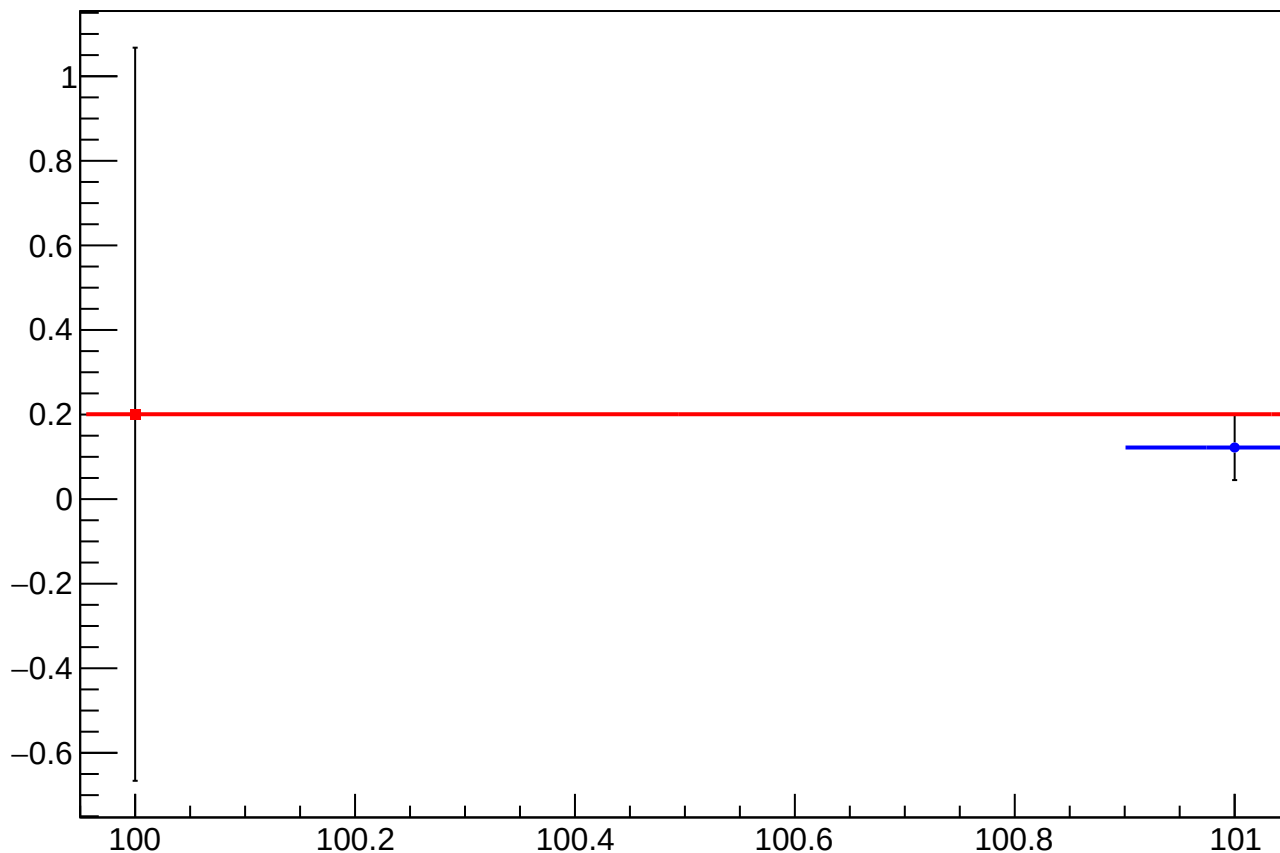
In: 55.331+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.655+/-0.054  $\chi^2/\text{NDF}$ : 75471.9/1



asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.201+/-0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

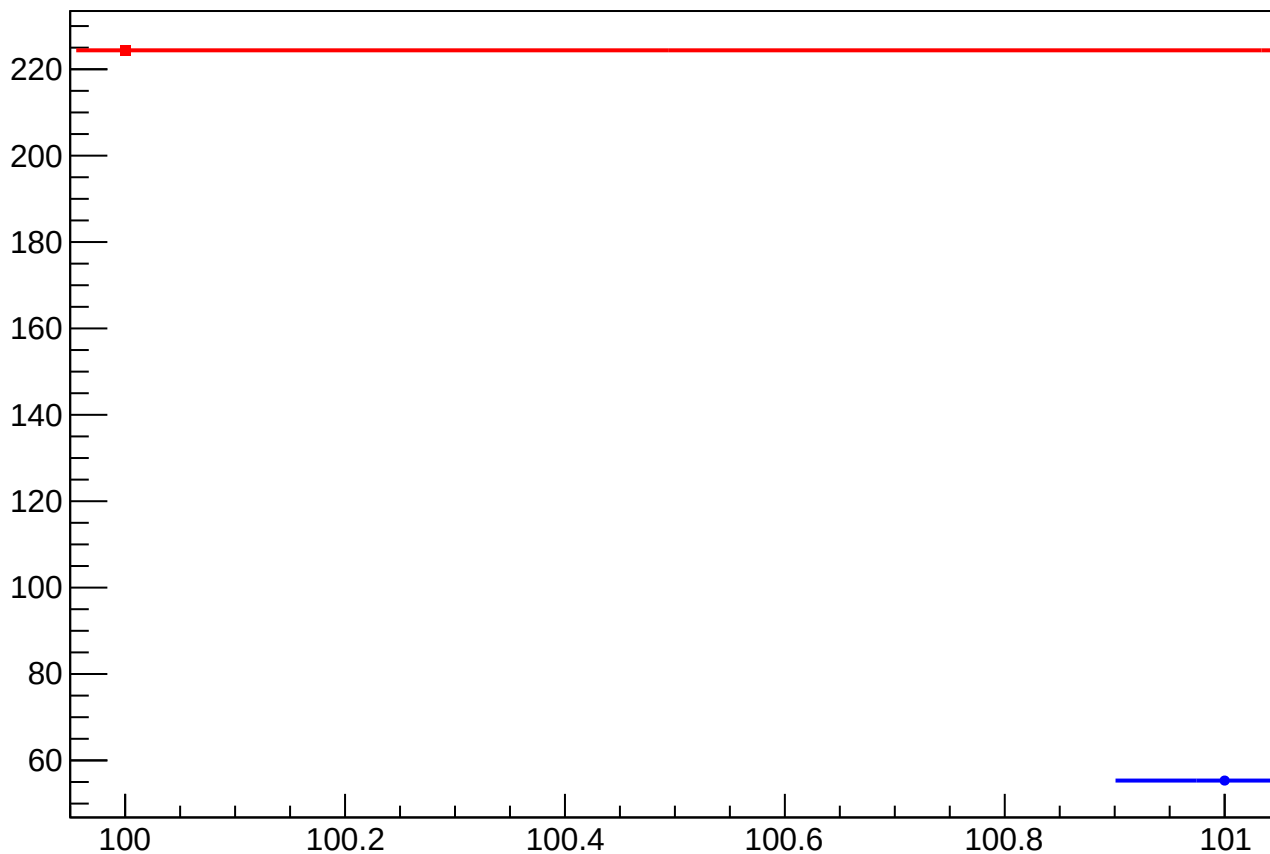
Right: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 55.331+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 224.383+/-0.613  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

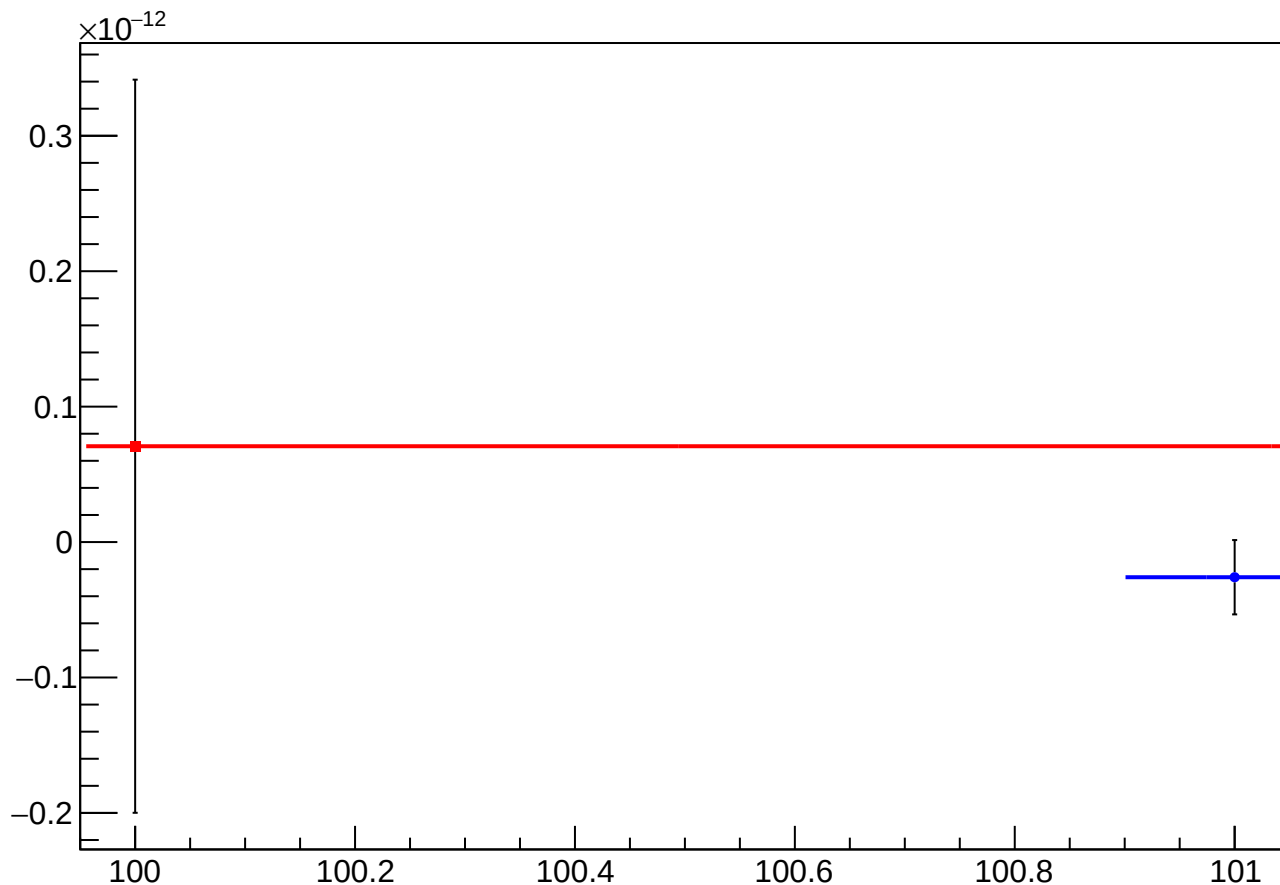
Right: 56.655+/-0.054  $\chi^2/\text{NDF}$ : 75471.9/1

In: 55.331+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.655+/-0.054  $\chi^2/\text{NDF}$ : 75471.9/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

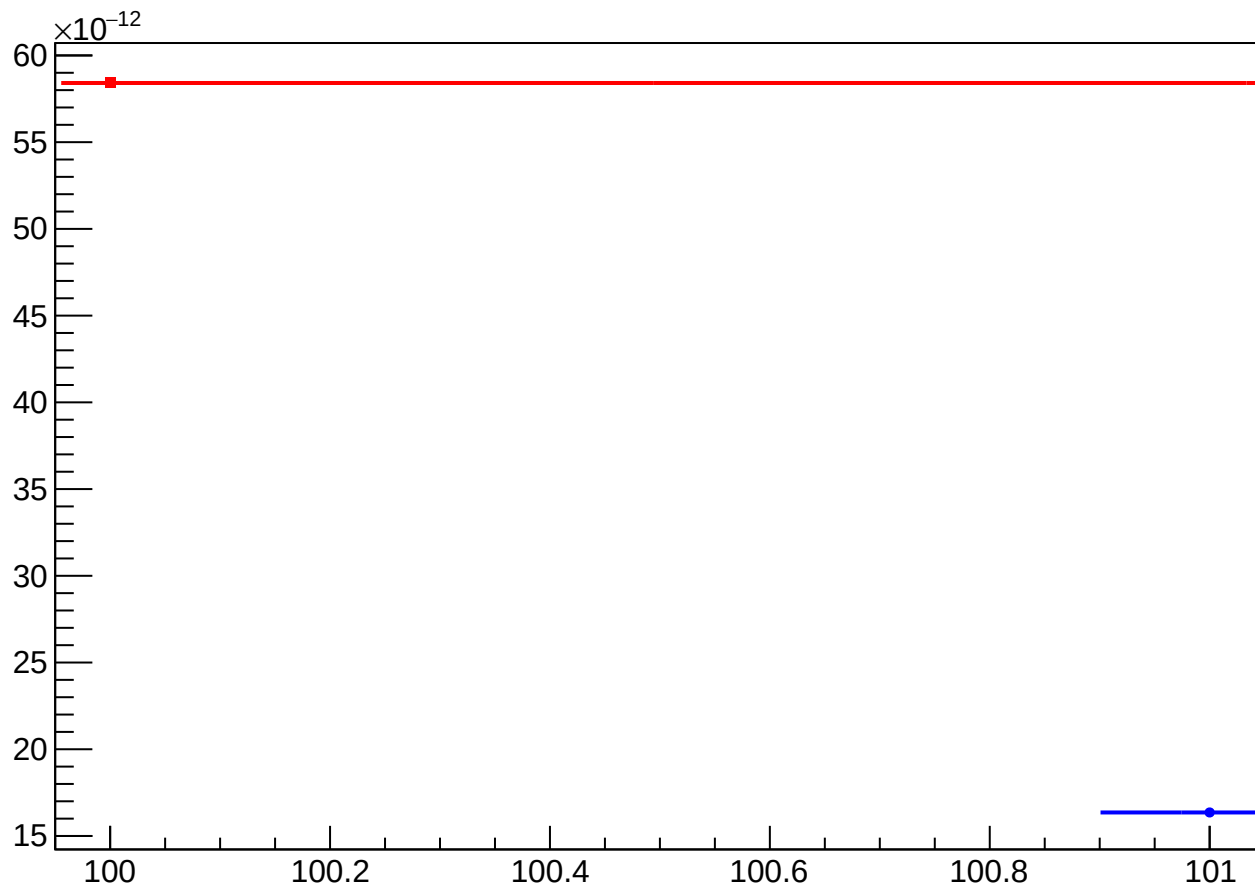
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

asym\_atl\_dd\_atr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

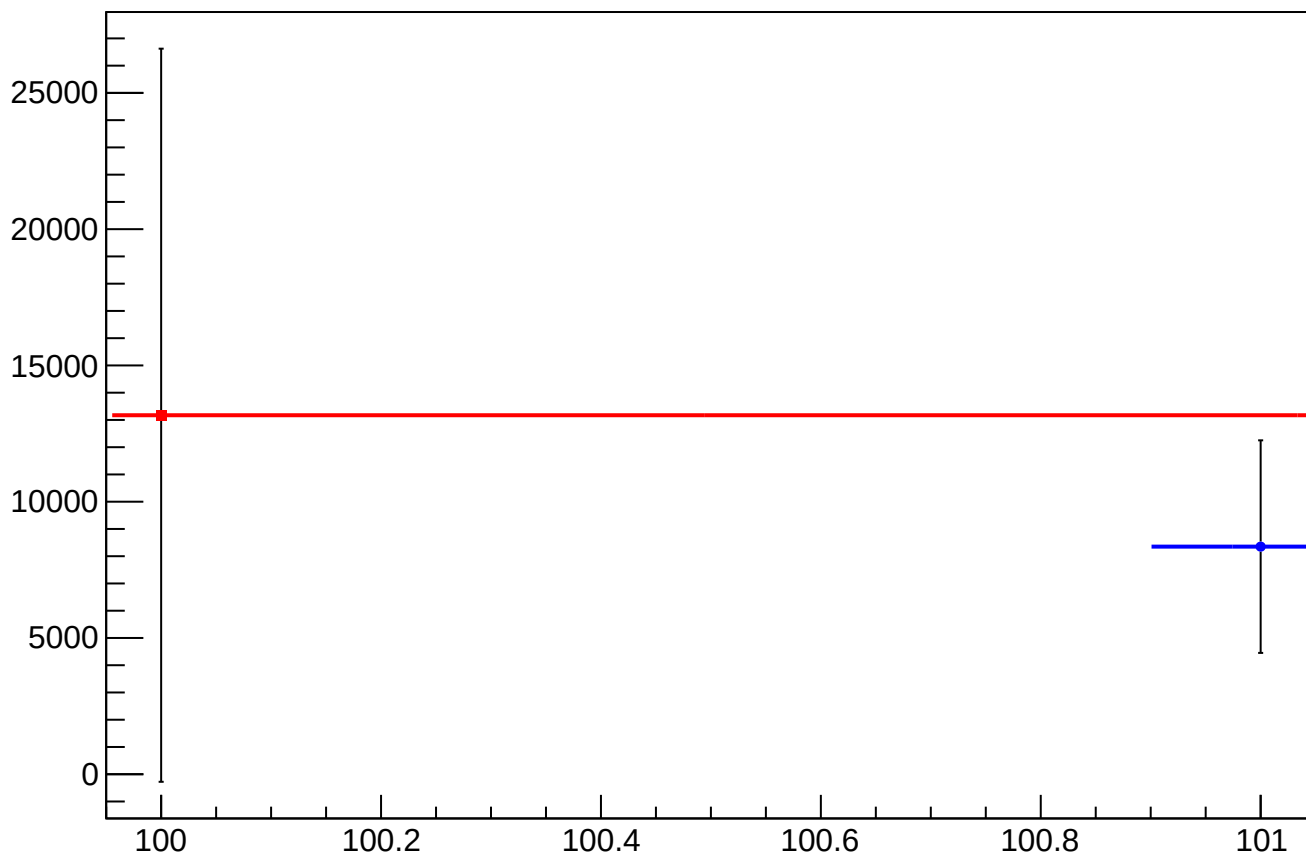
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 47792.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 47792.4/1

reg\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 8351.777 $\pm$ 3900.093  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 13172.715 $\pm$ 13450.266  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

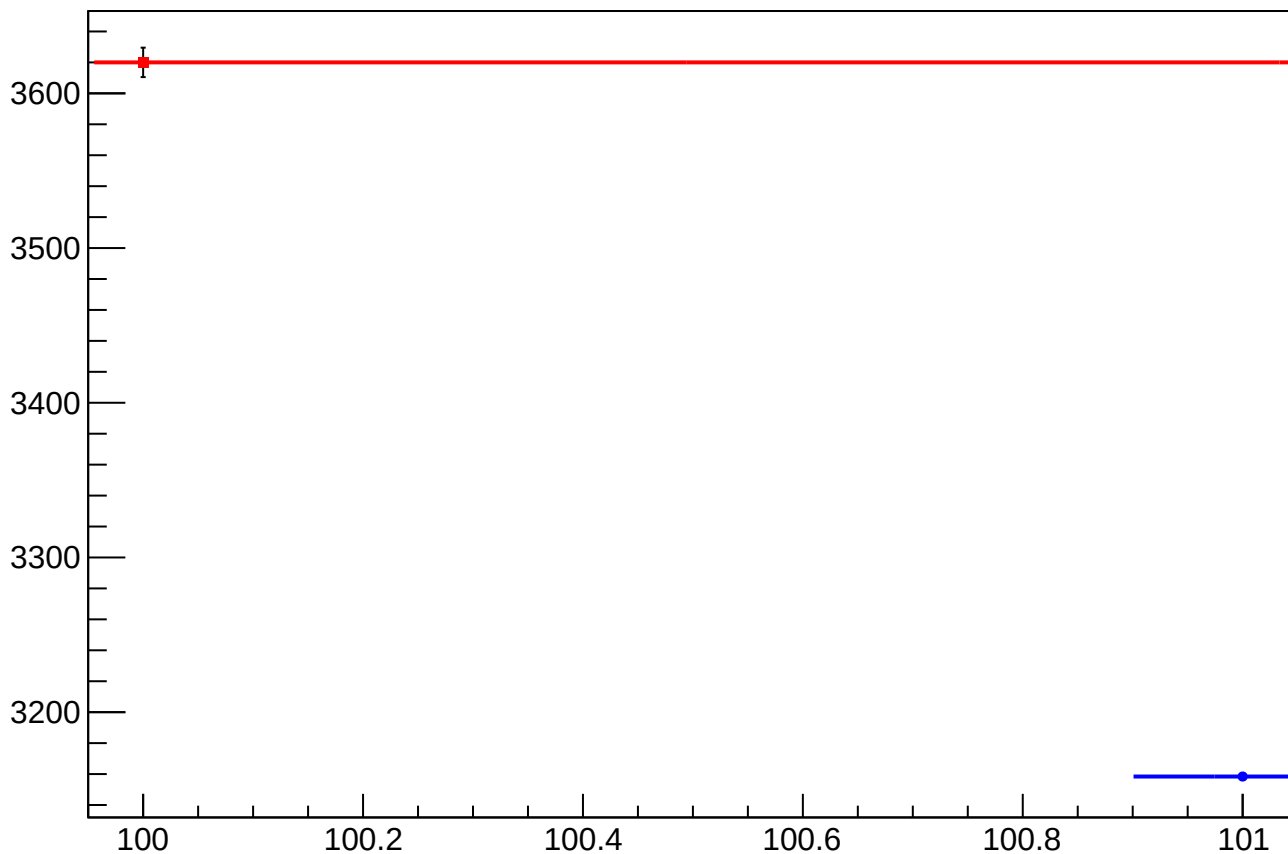
Right: 8725.680 $\pm$ 3745.799  $\chi^2$ /NDF: 0.1/1

In: 8351.777 $\pm$ 3900.093  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 8725.680 $\pm$ 3745.799  $\chi^2$ /NDF: 0.1/1

reg\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3158.404 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3620.015 $\pm$ 9.511  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

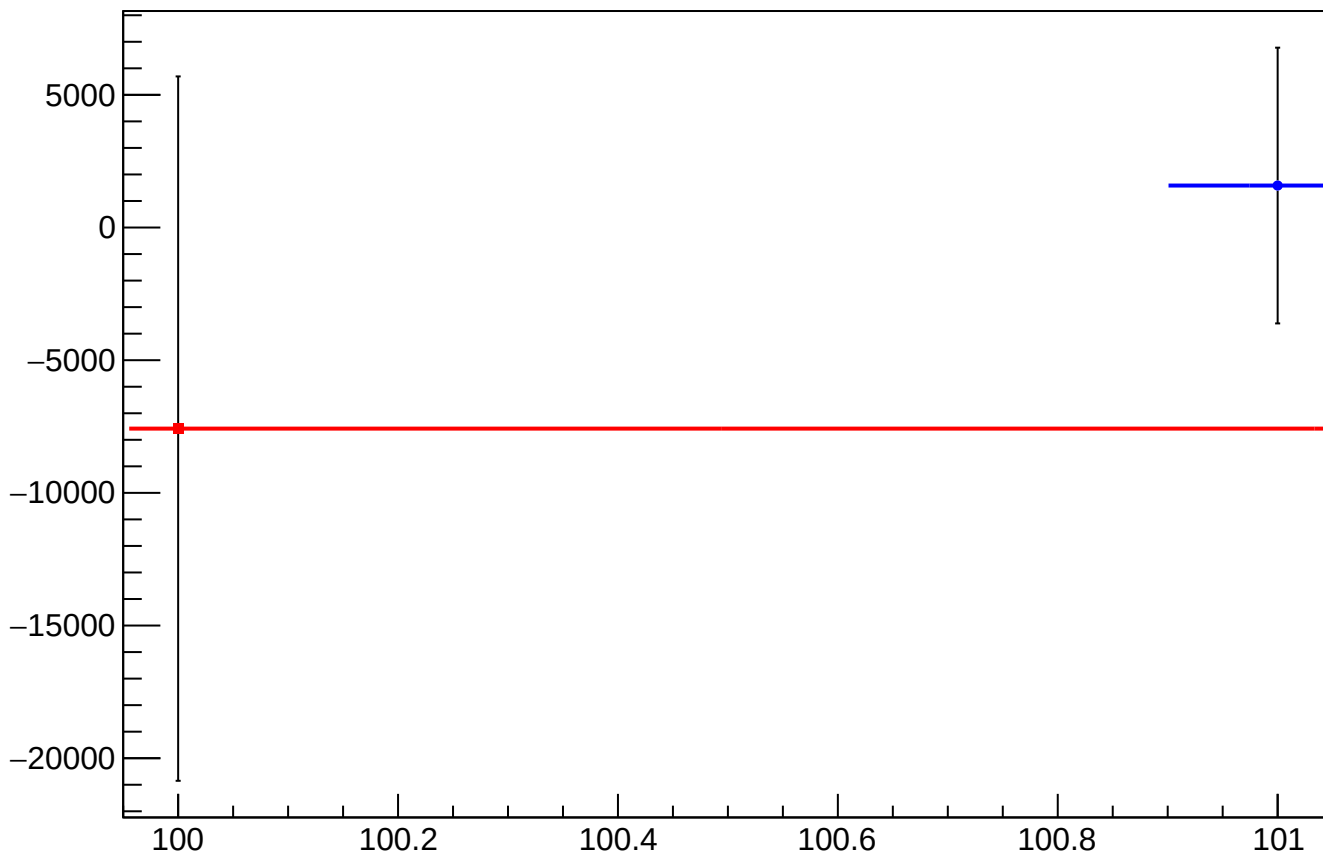
Right: 3194.205 $\pm$ 2.649  $\chi^2$ /NDF: 2173.0/1

In: 3158.404 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3194.205 $\pm$ 2.649  $\chi^2$ /NDF: 2173.0/1

asym\_at1\_avg\_at2\_avg\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1582.202 $\pm$ 5196.012  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -7578.128 $\pm$ 13272.992  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

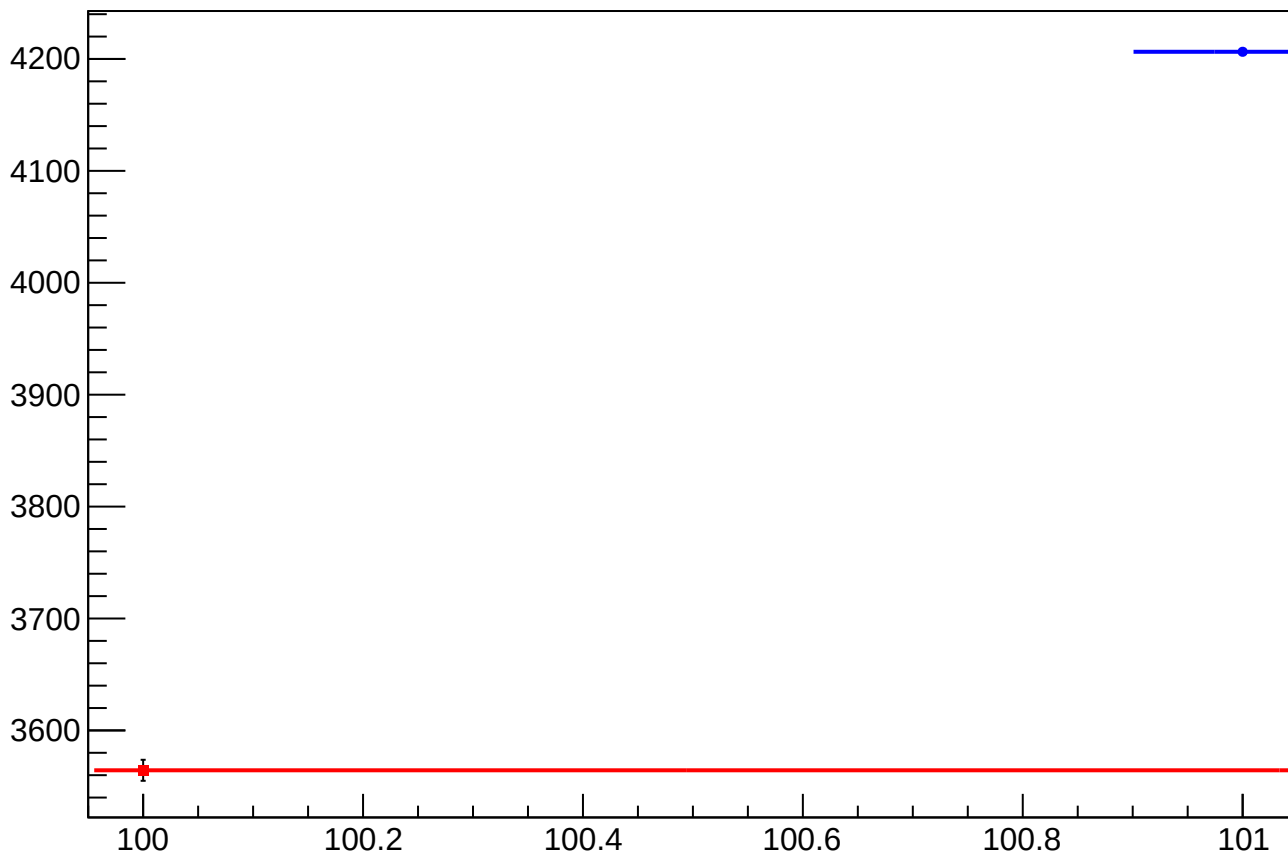
Right: 364.923 $\pm$ 4838.473  $\chi^2$ /NDF: 0.4/1

In: 1582.202 $\pm$ 5196.012  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 364.923 $\pm$ 4838.473  $\chi^2$ /NDF: 0.4/1

asym\_at1\_avg\_at2\_avg\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4206.409+/-3.674  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3564.365+/-9.385  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4121.090+/-3.421  $\chi^2/\text{NDF}$ : 4057.9/1

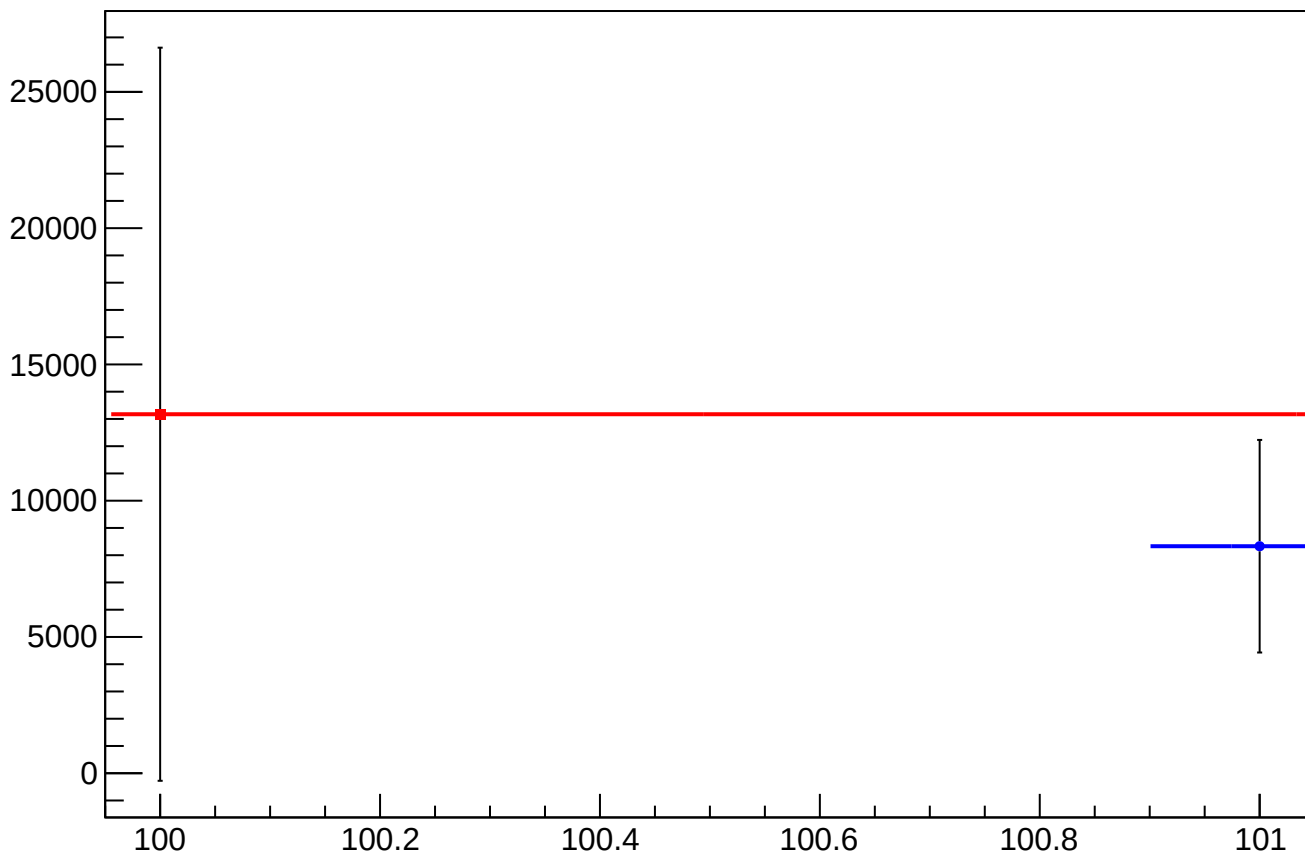
In: 4206.409+/-3.674  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4121.090+/-3.421  $\chi^2/\text{NDF}$ : 4057.9/1



cor\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 8329.753 $\pm$ 3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13172.682 $\pm$ 13450.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

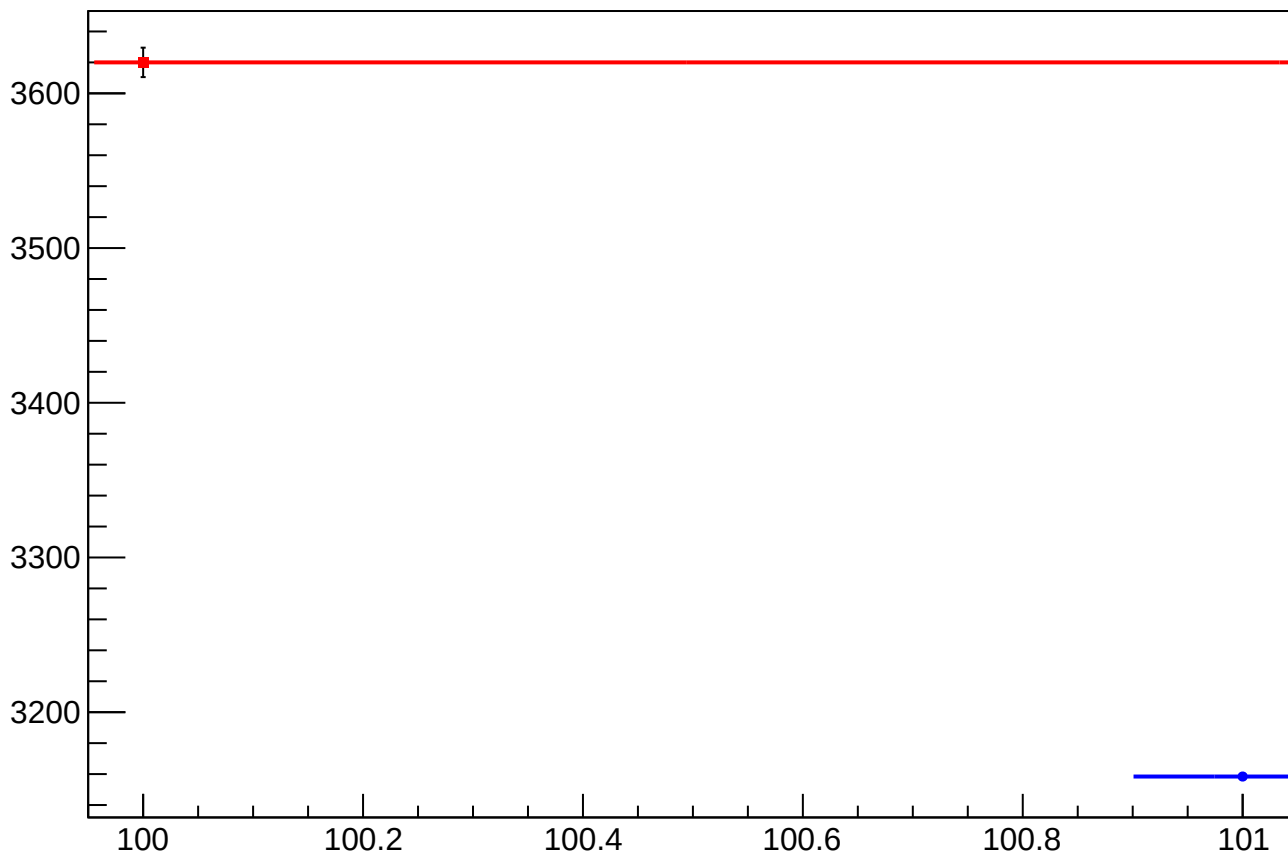
Right: 8705.364 $\pm$ 3745.816  $\chi^2/\text{NDF}$ : 0.1/1

In: 8329.753 $\pm$ 3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8705.364 $\pm$ 3745.816  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3158.415 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3620.015 $\pm$ 9.511  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

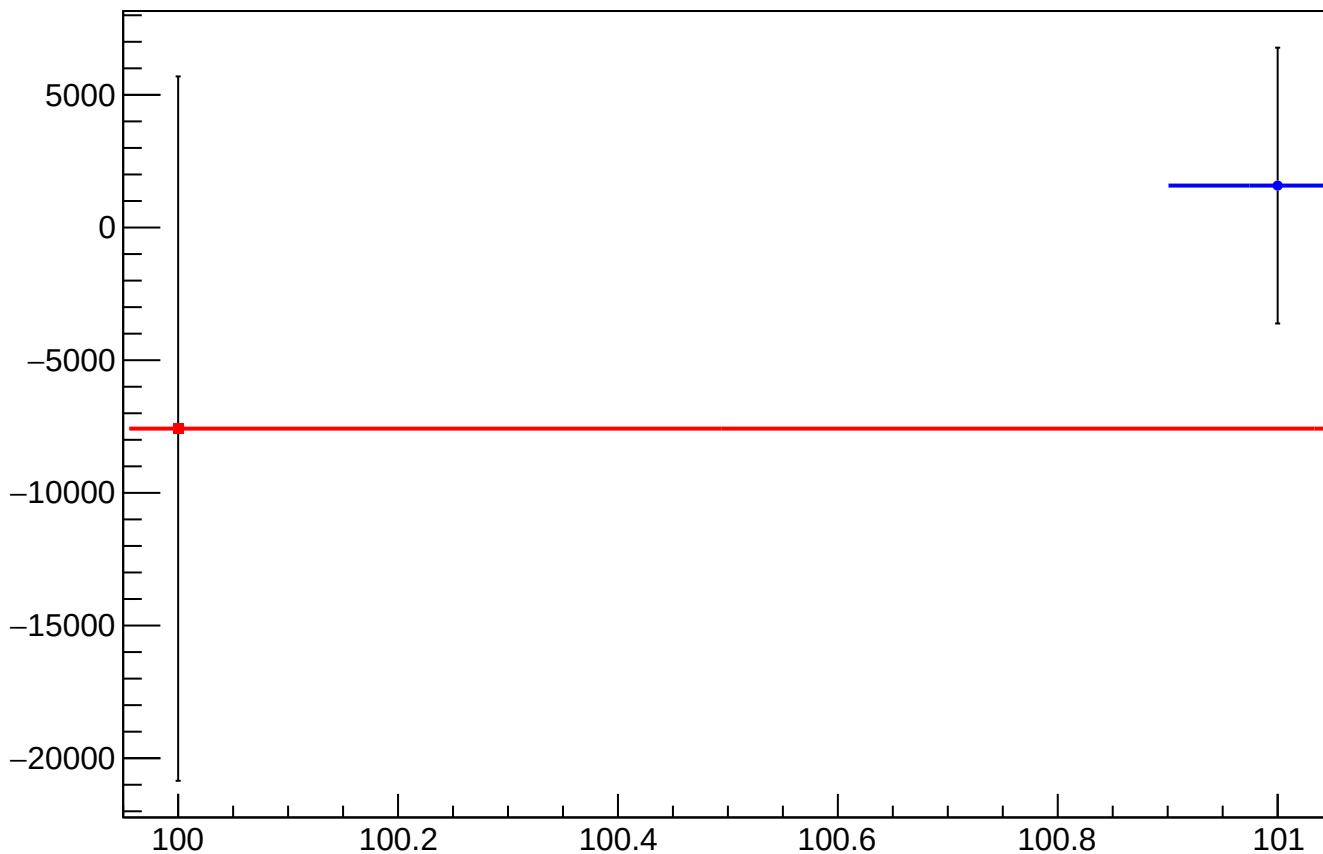
Right: 3194.216 $\pm$ 2.649  $\chi^2$ /NDF: 2172.9/1

In: 3158.415 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3194.216 $\pm$ 2.649  $\chi^2$ /NDF: 2172.9/1

asym\_at1\_avg\_at2\_avg\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7578.169+/-13272.990  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

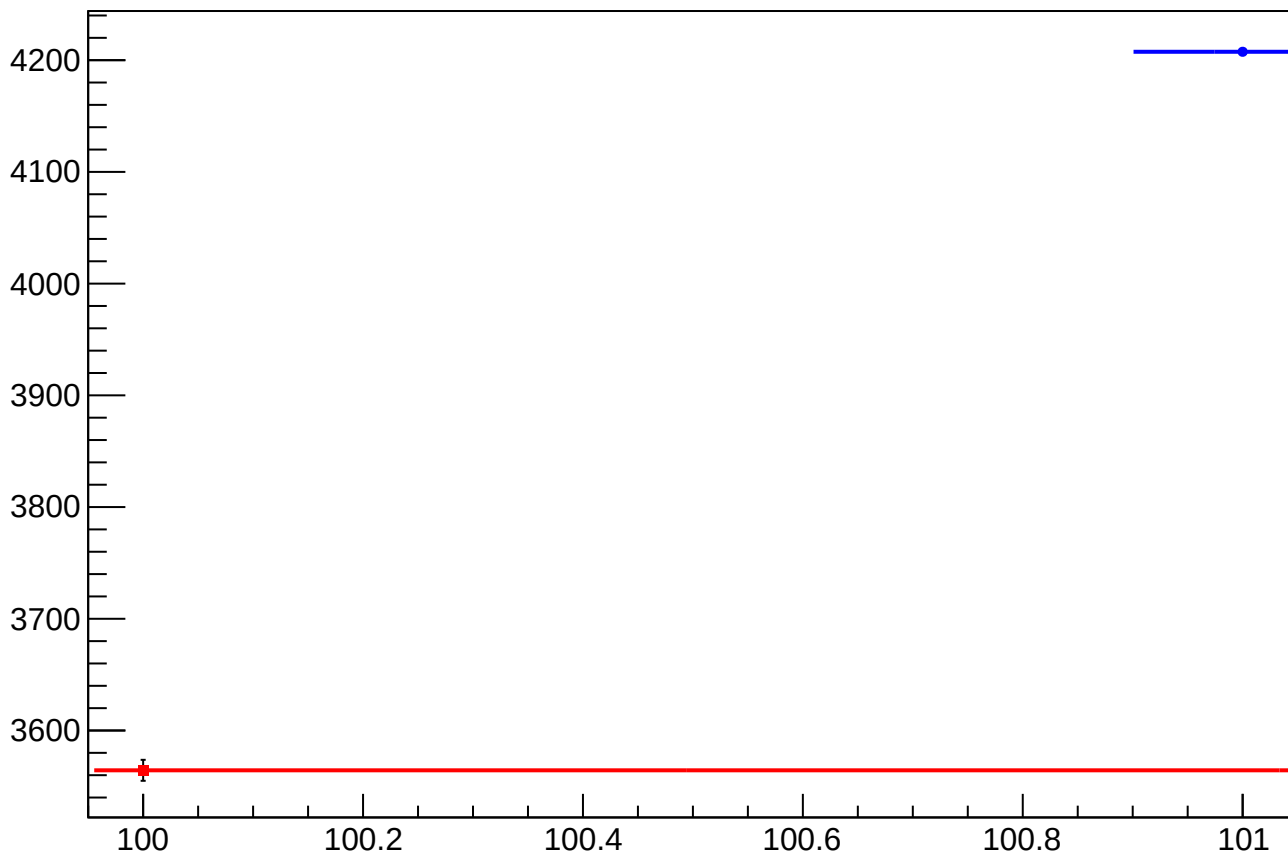
Right: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

asym\_at1\_avg\_at2\_avg\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4207.526 $\pm$ 3.675  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3564.365 $\pm$ 9.385  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

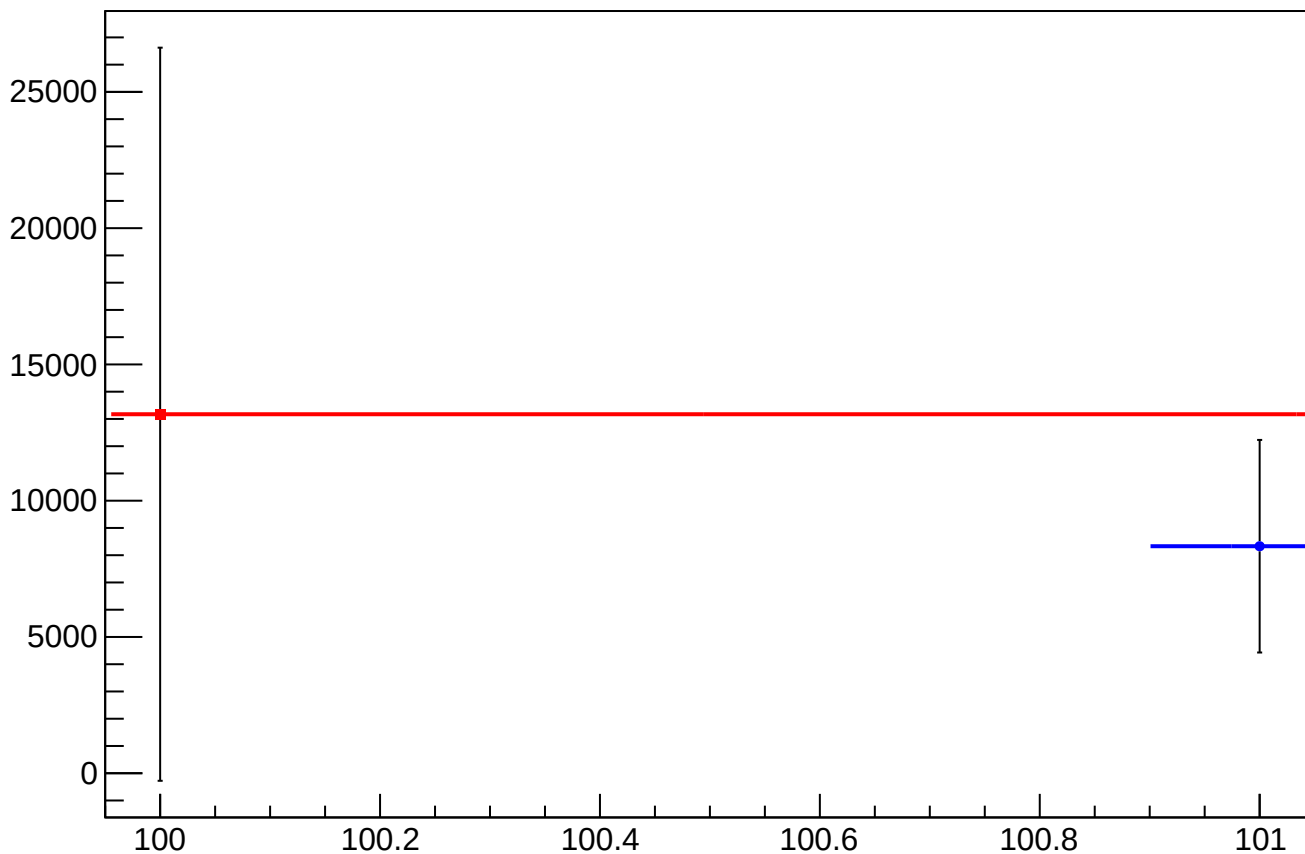
Right: 4122.021 $\pm$ 3.422  $\chi^2/\text{NDF}$ : 4071.7/1

In: 4207.526 $\pm$ 3.675  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4122.021 $\pm$ 3.422  $\chi^2/\text{NDF}$ : 4071.7/1

eigen\_cor\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13172.682+/-13450.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

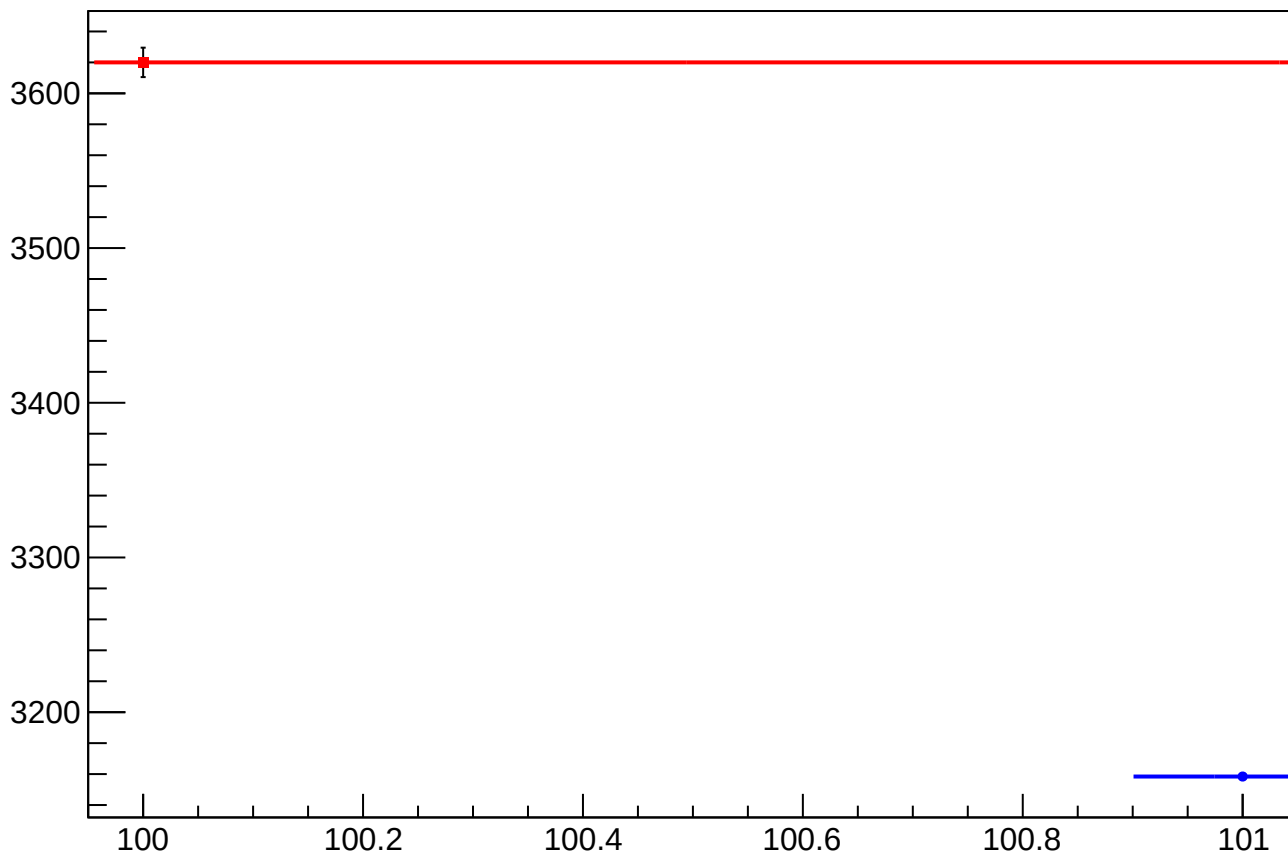
Right: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3158.415+/-2.758  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3620.015+/-9.511  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

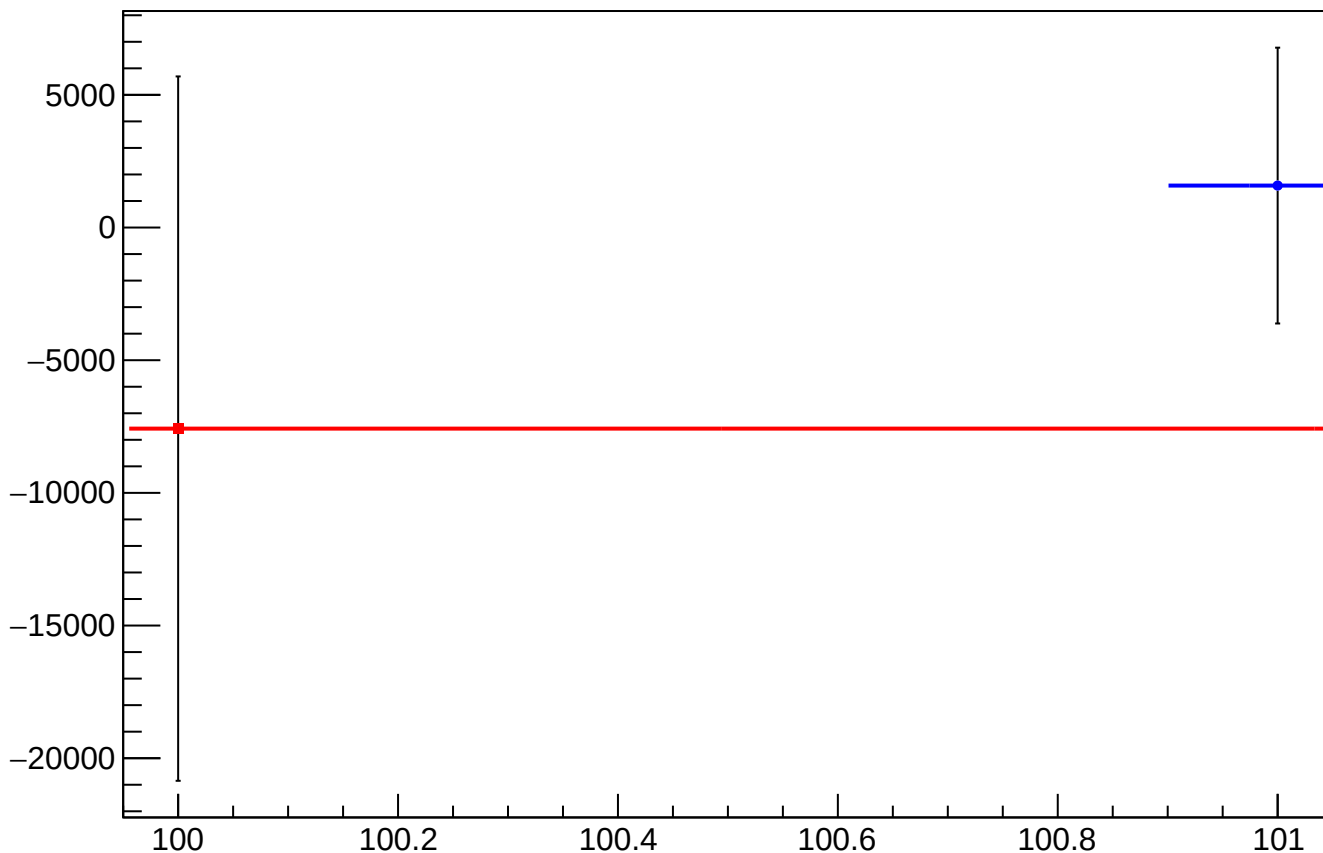
Right: 3194.216+/-2.649  $\chi^2/\text{NDF}$ : 2172.9/1

In: 3158.415+/-2.758  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3194.216+/-2.649  $\chi^2/\text{NDF}$ : 2172.9/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7578.169+/-13272.990  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

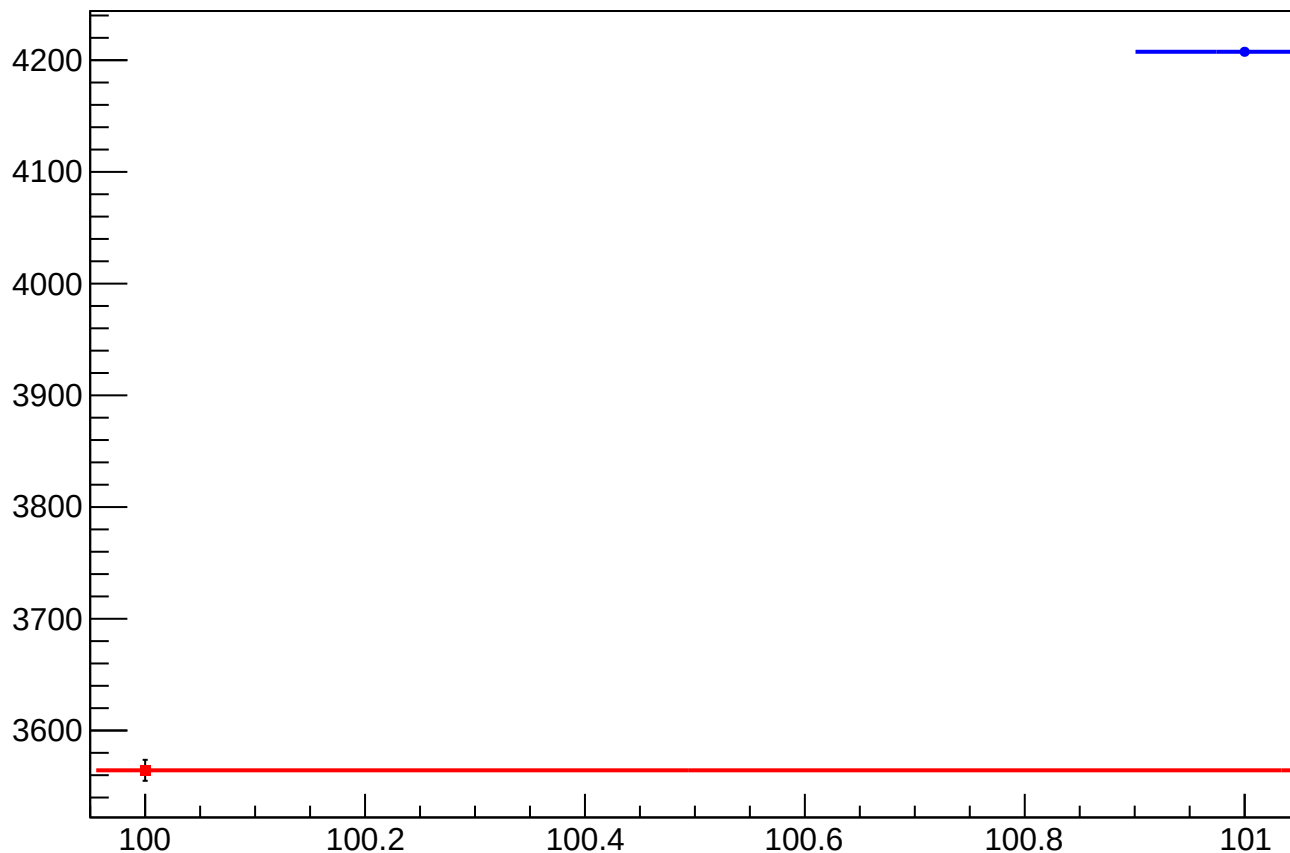
Right: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4207.526 $\pm$ 3.675  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3564.365 $\pm$ 9.385  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4122.021 $\pm$ 3.422  $\chi^2$ /NDF: 4071.7/1

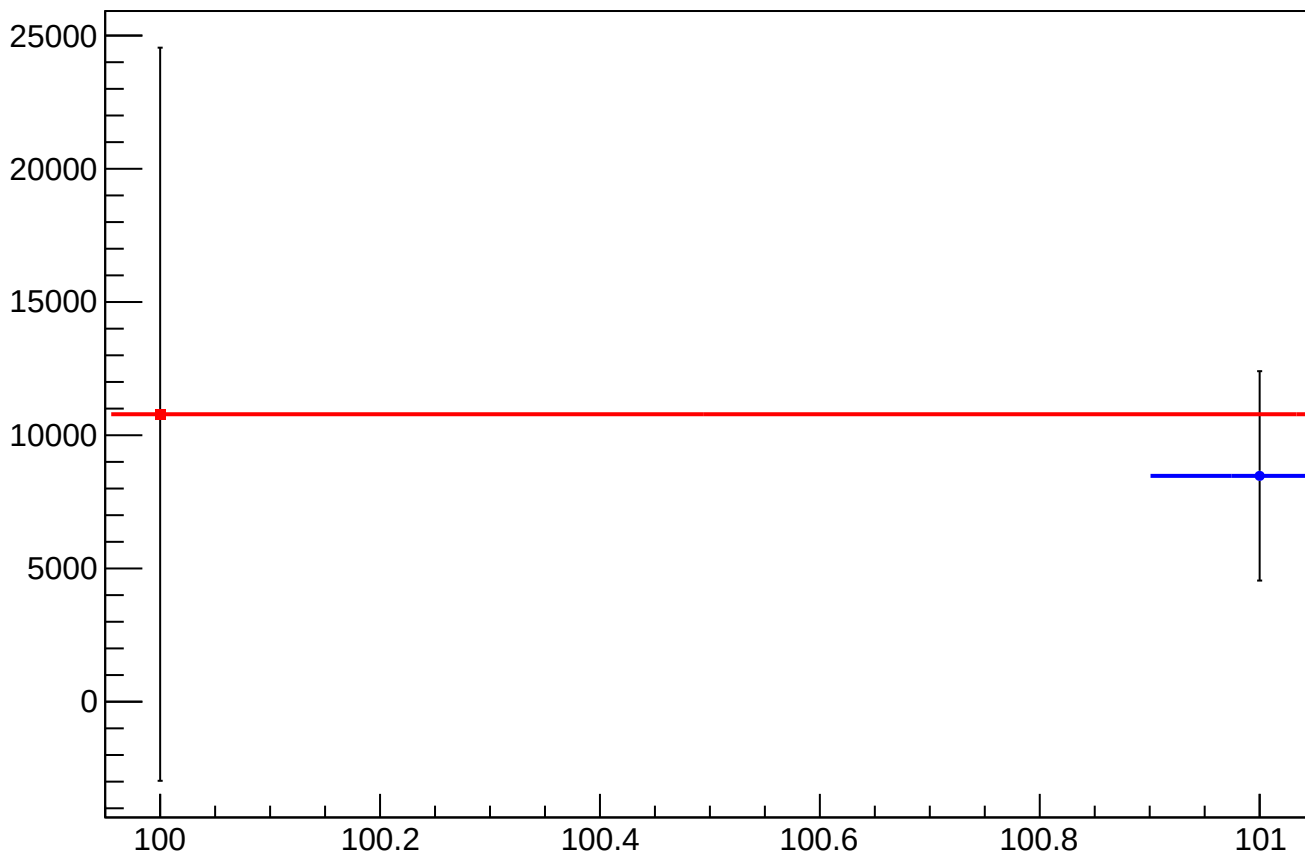
In: 4207.526 $\pm$ 3.675  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4122.021 $\pm$ 3.422  $\chi^2$ /NDF: 4071.7/1



dit\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 8475.157+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10788.514+/-13756.935  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

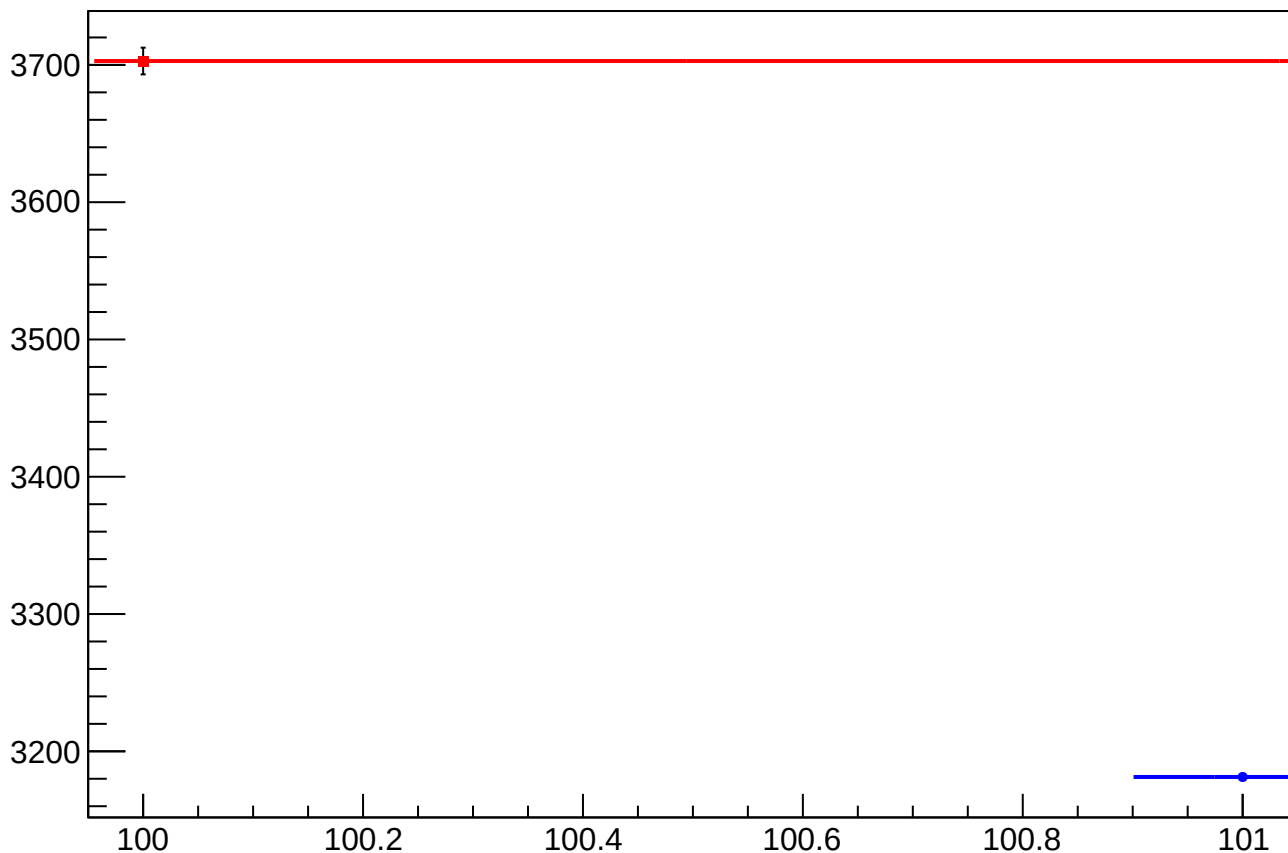
Right: 8649.639+/-3778.115  $\chi^2/\text{NDF}$ : 0.0/1

In: 8475.157+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8649.639+/-3778.115  $\chi^2/\text{NDF}$ : 0.0/1

dit\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3181.298+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3702.830+/-9.728  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

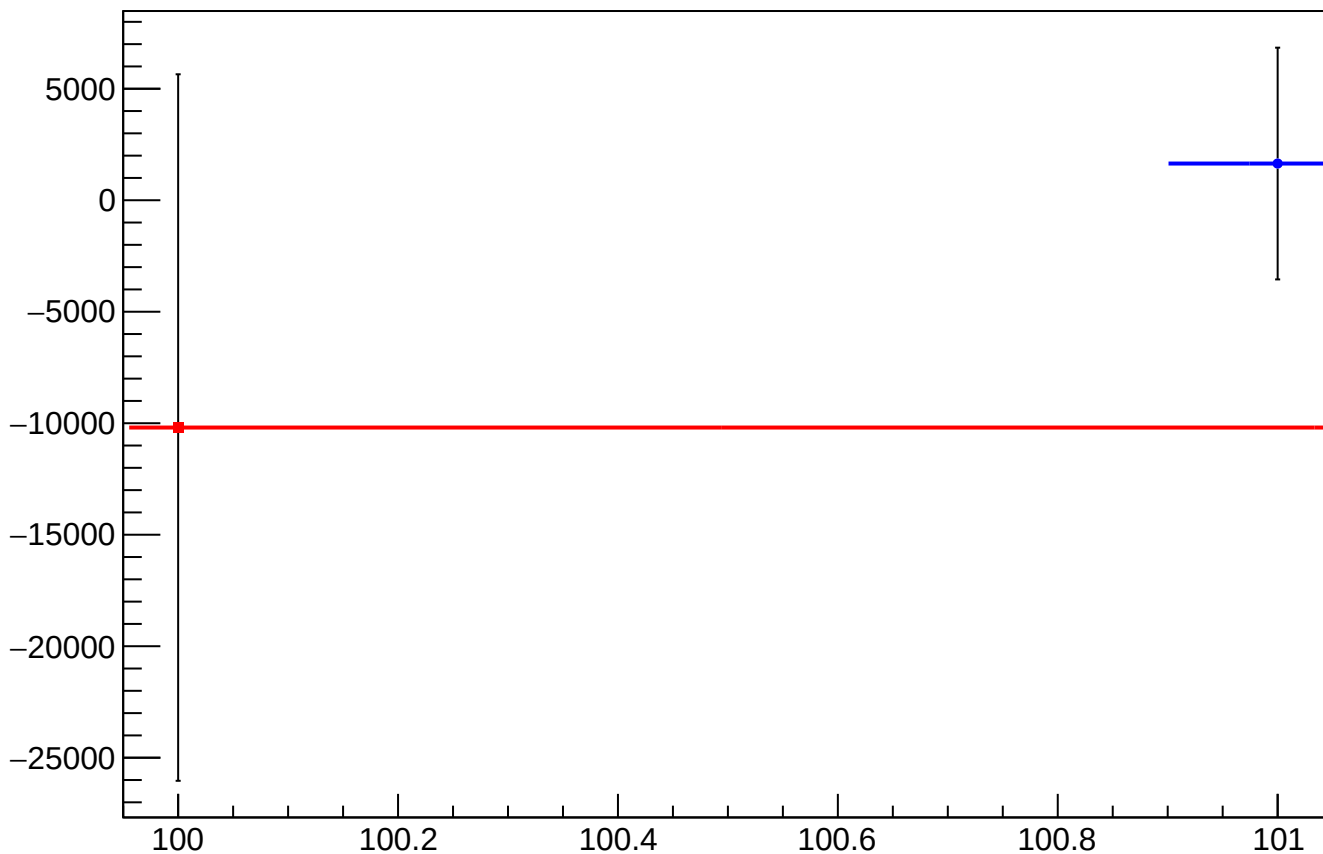
Right: 3220.634+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

In: 3181.298+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3220.634+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

asym\_at1\_avg\_at2\_avg\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1645.506 $\pm$ 5196.241  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -10193.400 $\pm$ 15841.746  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

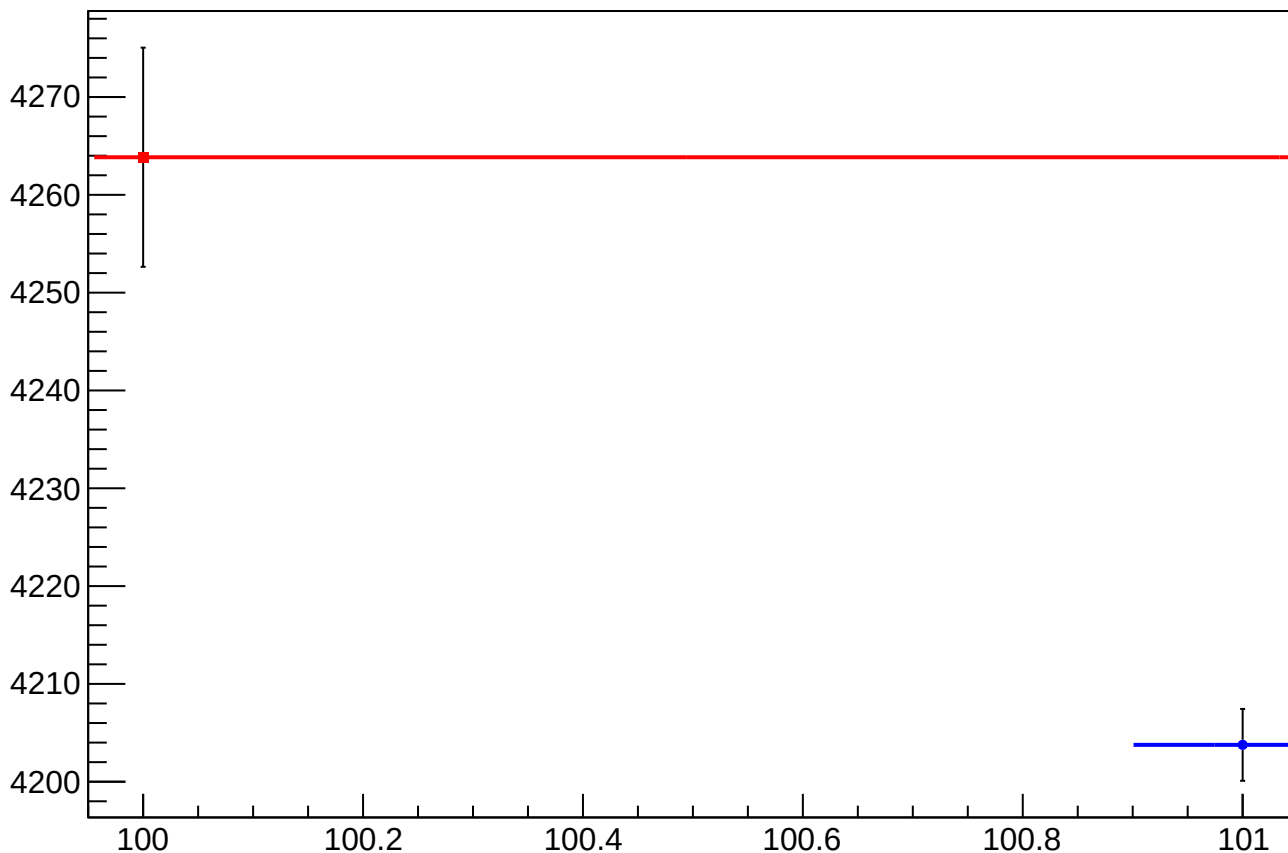
Right: 495.487 $\pm$ 4937.416  $\chi^2$ /NDF: 0.5/1

In: 1645.506 $\pm$ 5196.241  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 495.487 $\pm$ 4937.416  $\chi^2$ /NDF: 0.5/1

asym\_at1\_avg\_at2\_avg\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4203.768 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4263.844 $\pm$ 11.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

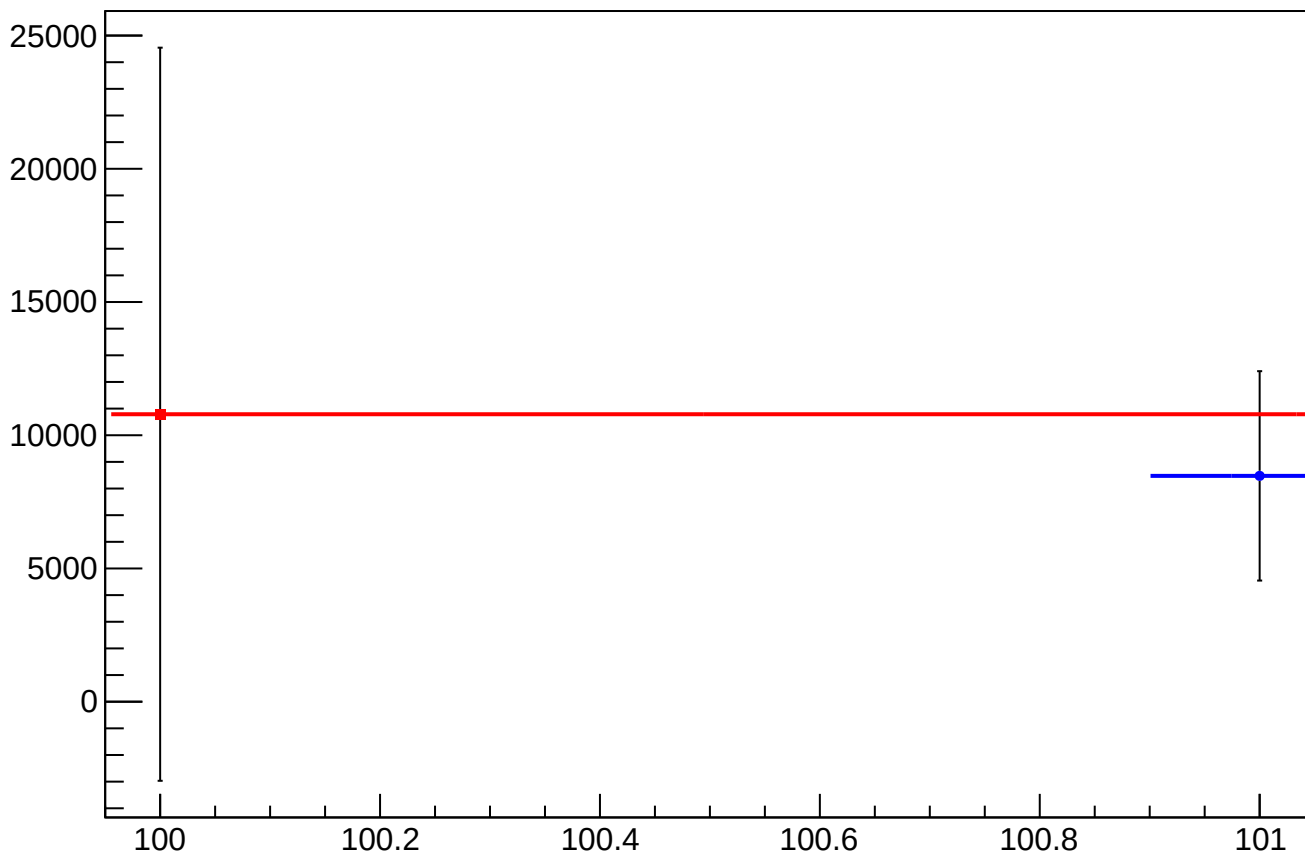
Right: 4209.604 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1

In: 4203.768 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4209.604 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1

eigen\_dit\_asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 8475.177+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10788.431+/-13756.932  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

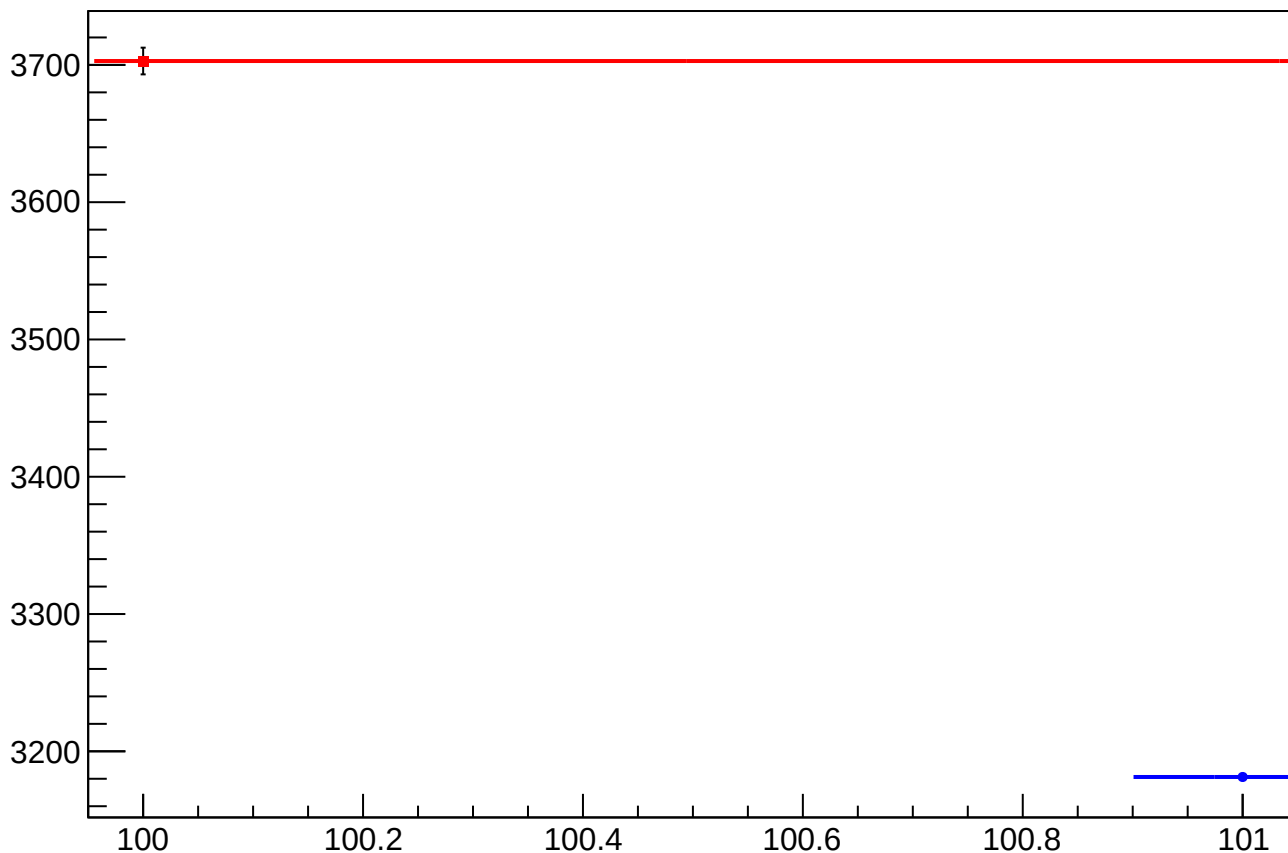
Right: 8649.651+/-3778.114  $\chi^2/\text{NDF}$ : 0.0/1

In: 8475.177+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8649.651+/-3778.114  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3181.297+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3702.830+/-9.728  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

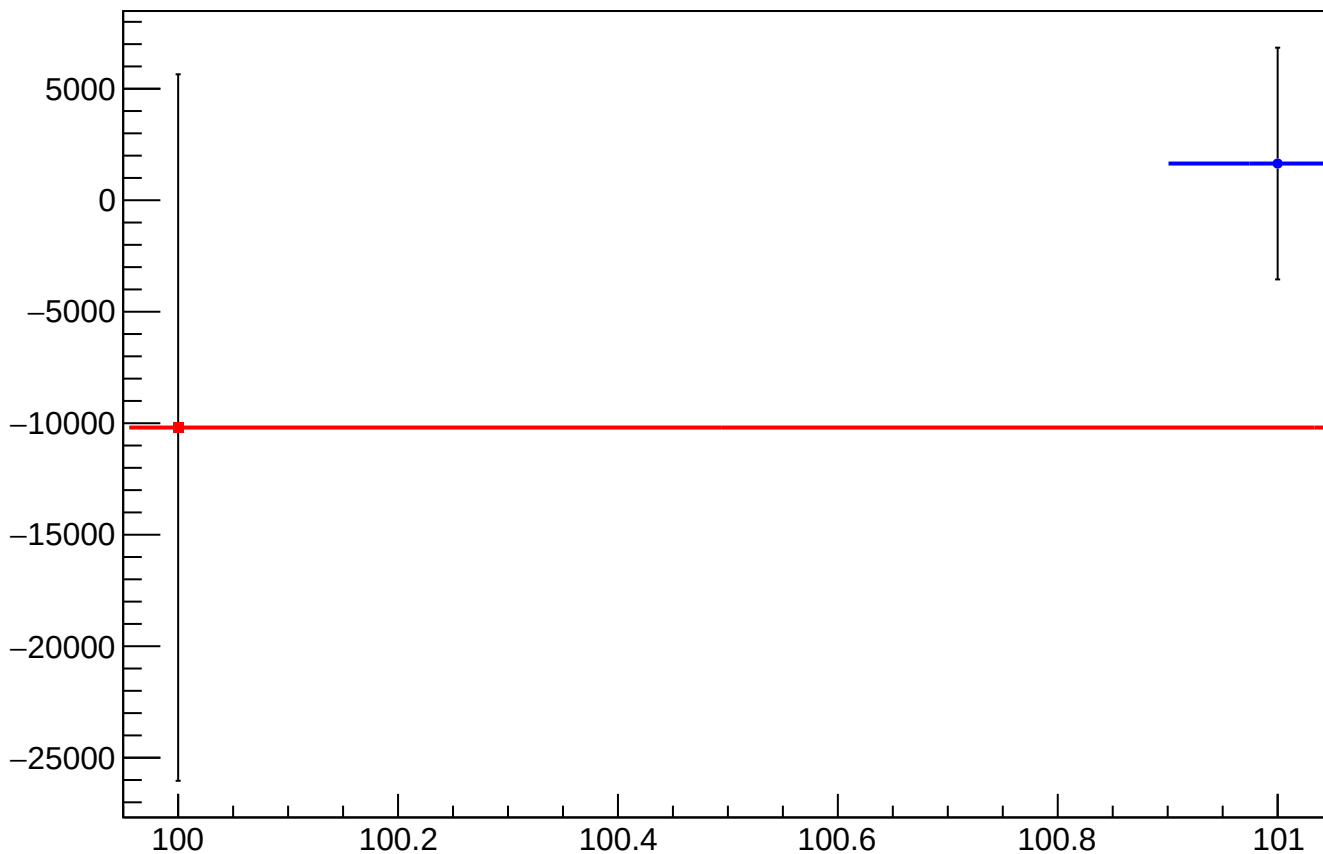
Right: 3220.633+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

In: 3181.297+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3220.633+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1645.520+/-5196.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10193.477+/-15841.719  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

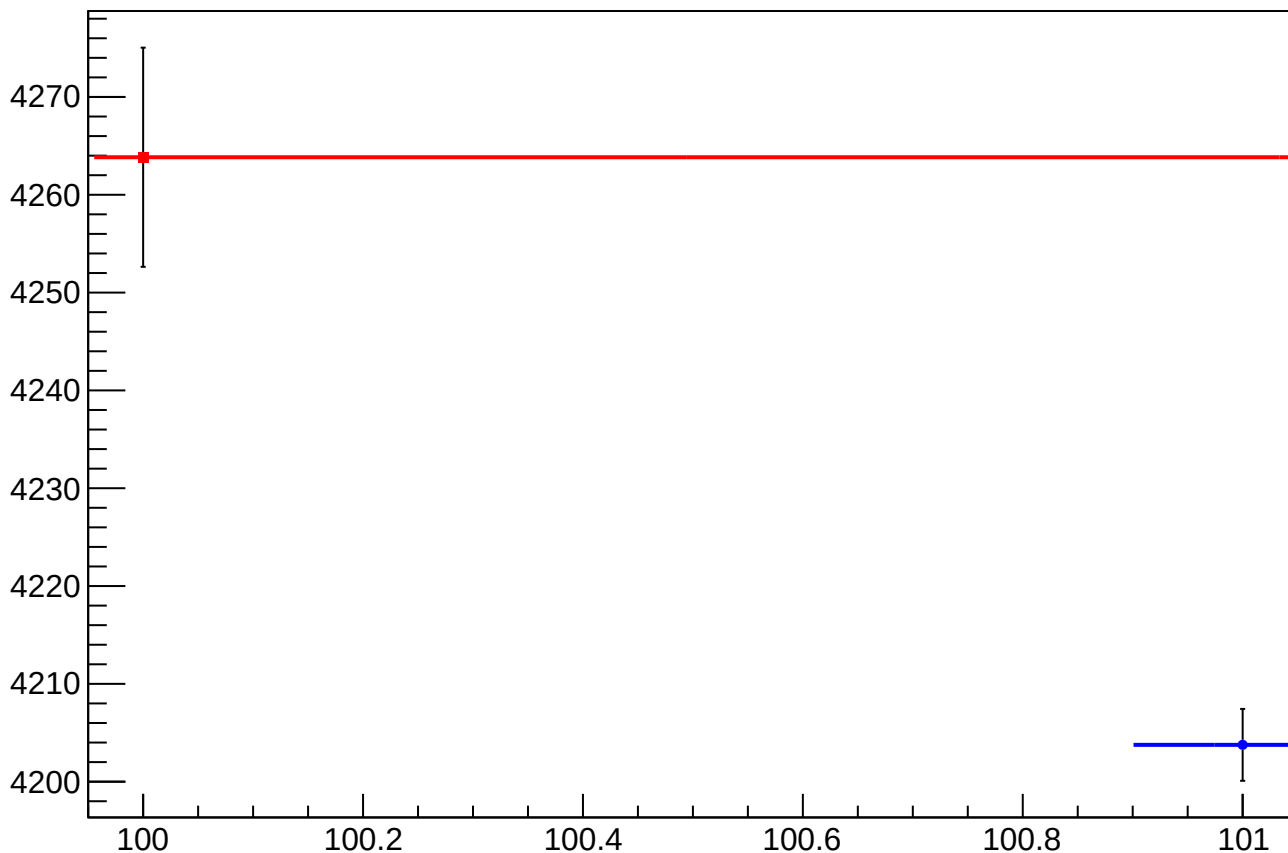
Right: 495.491+/-4937.411  $\chi^2/\text{NDF}$ : 0.5/1

In: 1645.520+/-5196.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 495.491+/-4937.411  $\chi^2/\text{NDF}$ : 0.5/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4203.764+/-3.674  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4263.837+/-11.202  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4209.599+/-3.491  $\chi^2/\text{NDF}$ : 26.0/1

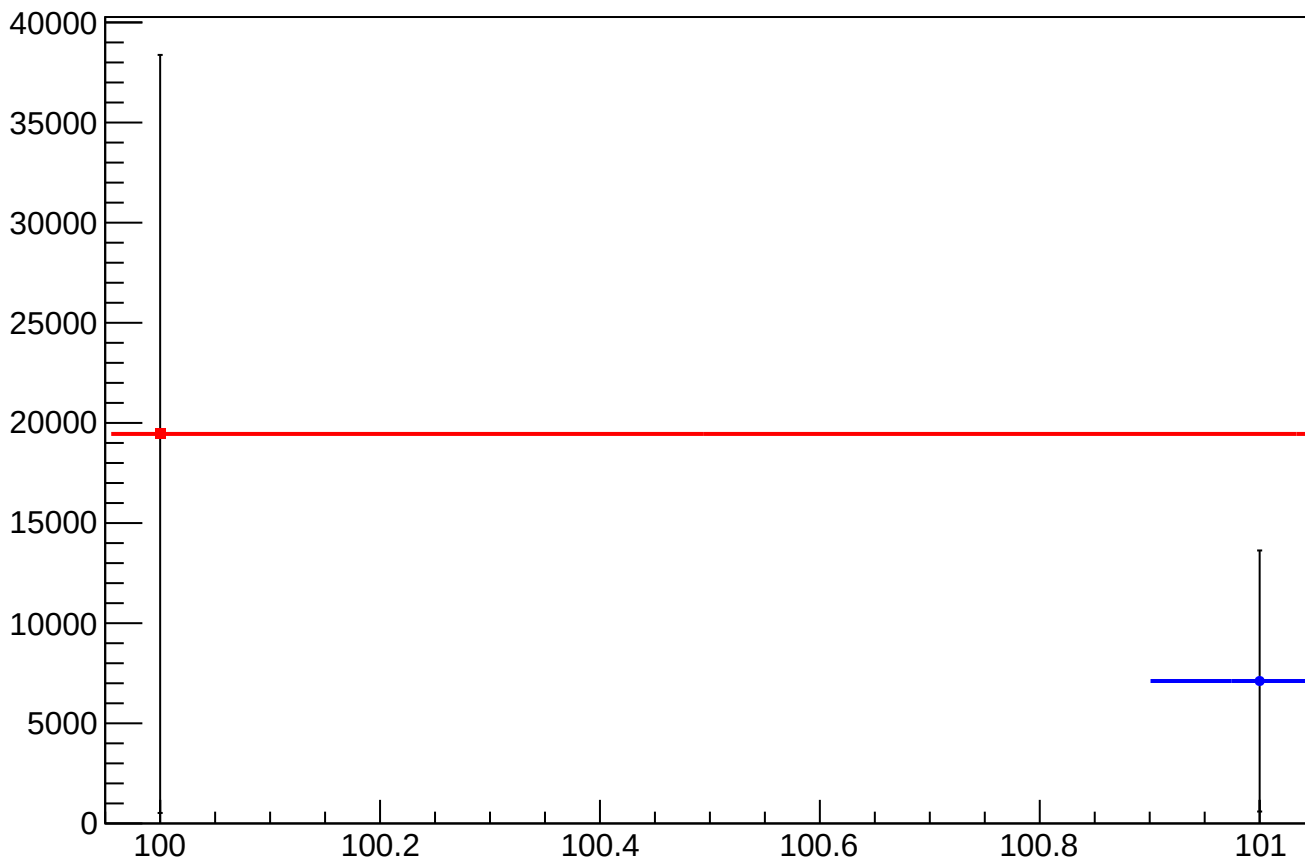
In: 4203.764+/-3.674  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4209.599+/-3.491  $\chi^2/\text{NDF}$ : 26.0/1



asym\_at1\_avg\_at2\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 7113.572+/-6517.946  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 19450.627+/-18926.075  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

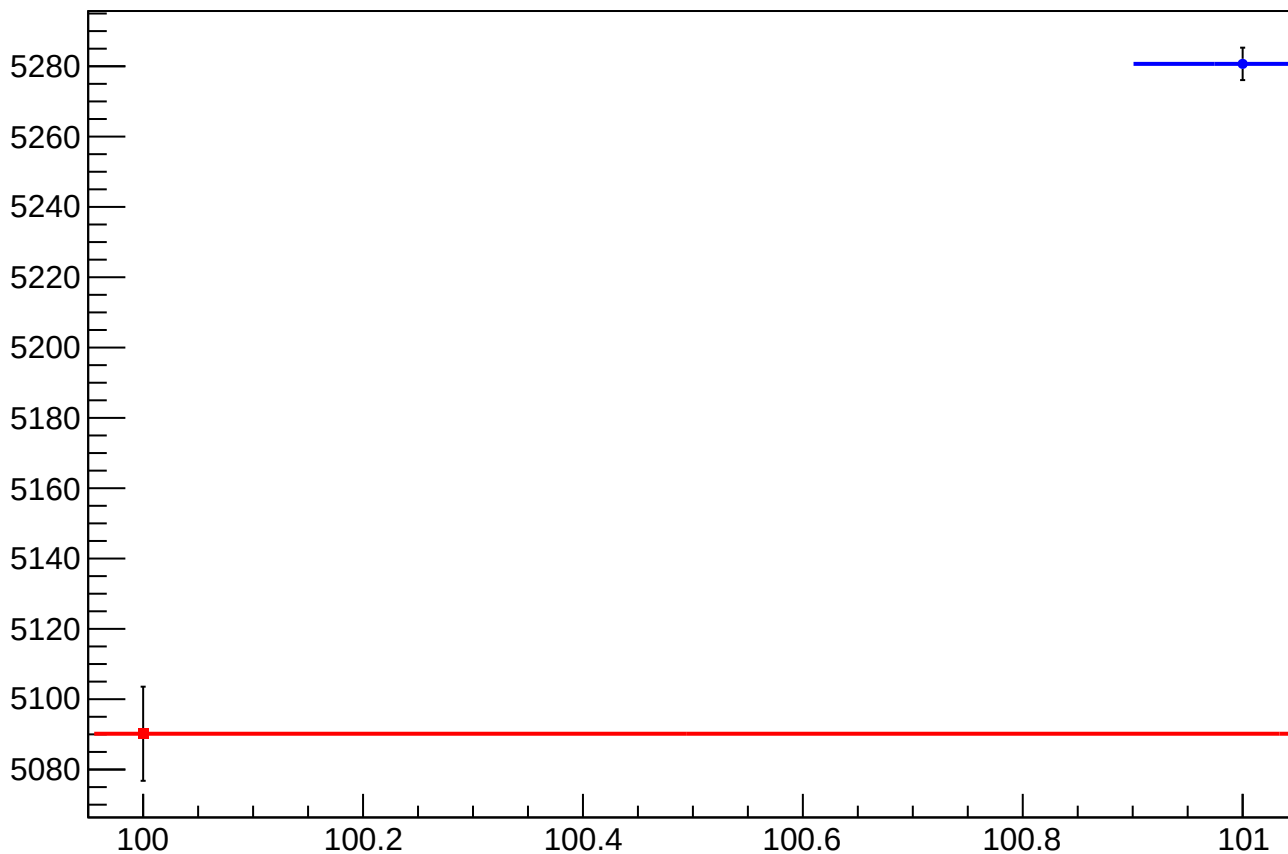
Right: 8421.656+/-6162.721  $\chi^2/\text{NDF}$ : 0.4/1

In: 7113.572+/-6517.946  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 8421.656+/-6162.721  $\chi^2/\text{NDF}$ : 0.4/1

asym\_at1\_avg\_at2\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 5280.679 +/- 4.609  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5090.176 +/- 13.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

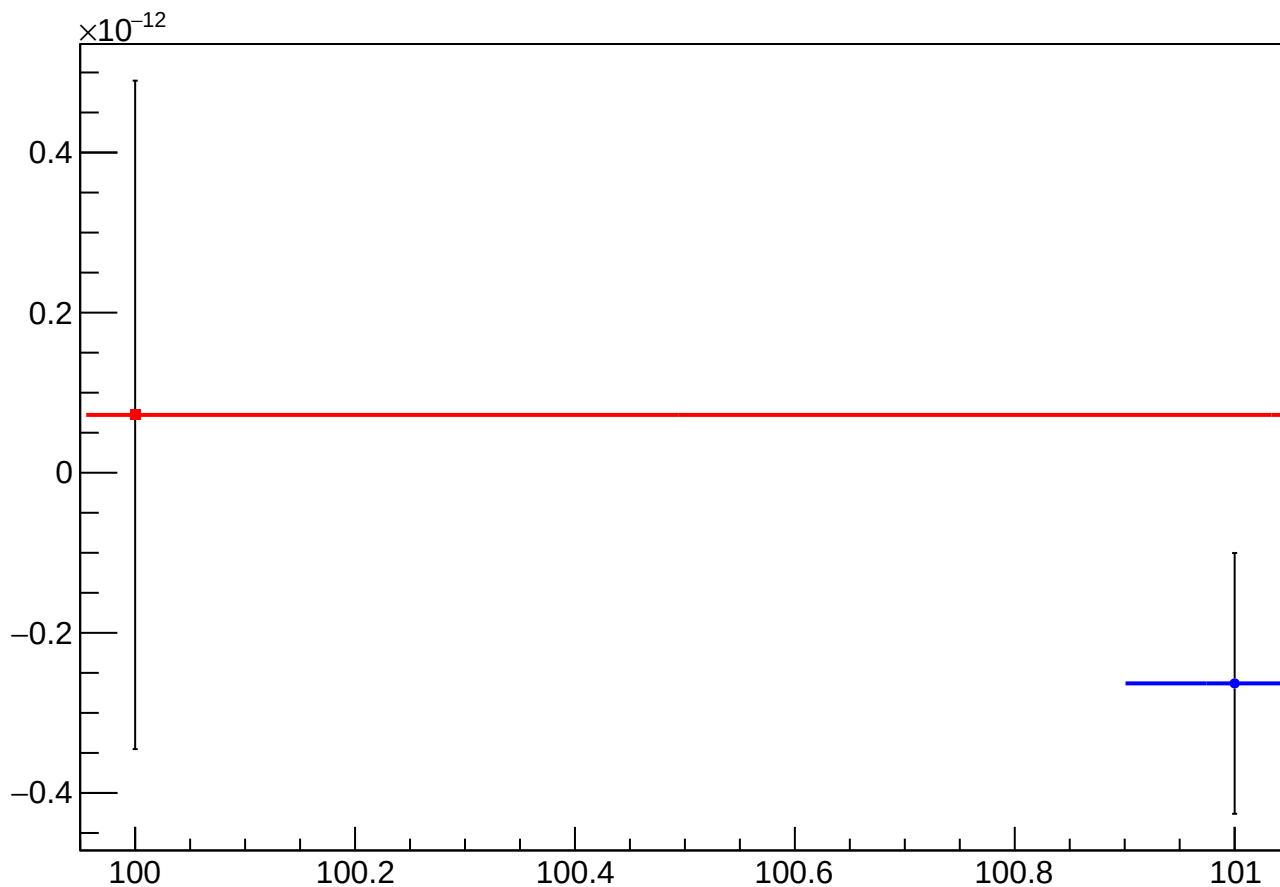
Right: 5260.480 +/- 4.358  $\chi^2/\text{NDF}$ : 181.1/1

In: 5280.679 +/- 4.609  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5260.480 +/- 4.358  $\chi^2/\text{NDF}$ : 181.1/1

asym\_at1\_avg\_at2\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

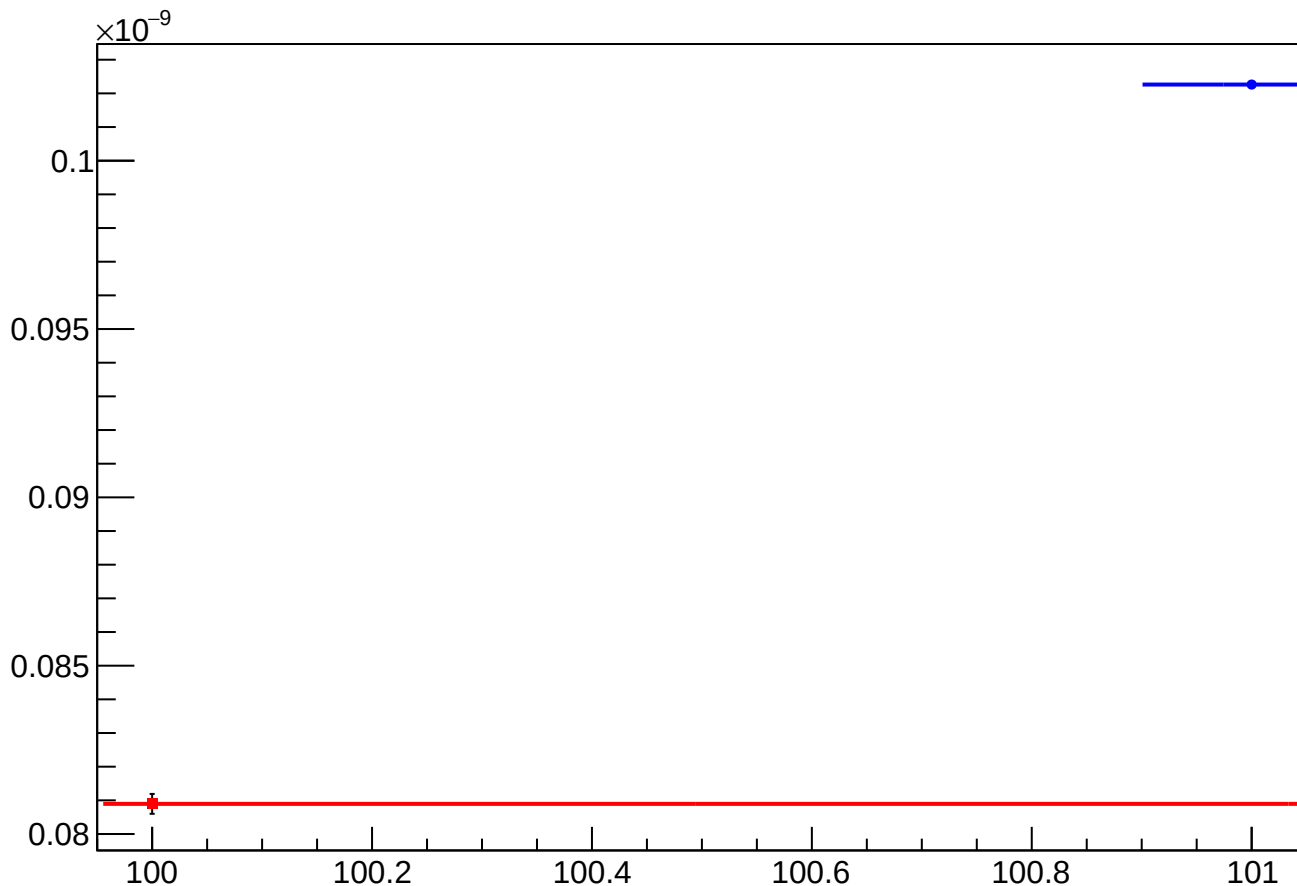
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_at1\_avg\_at2\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

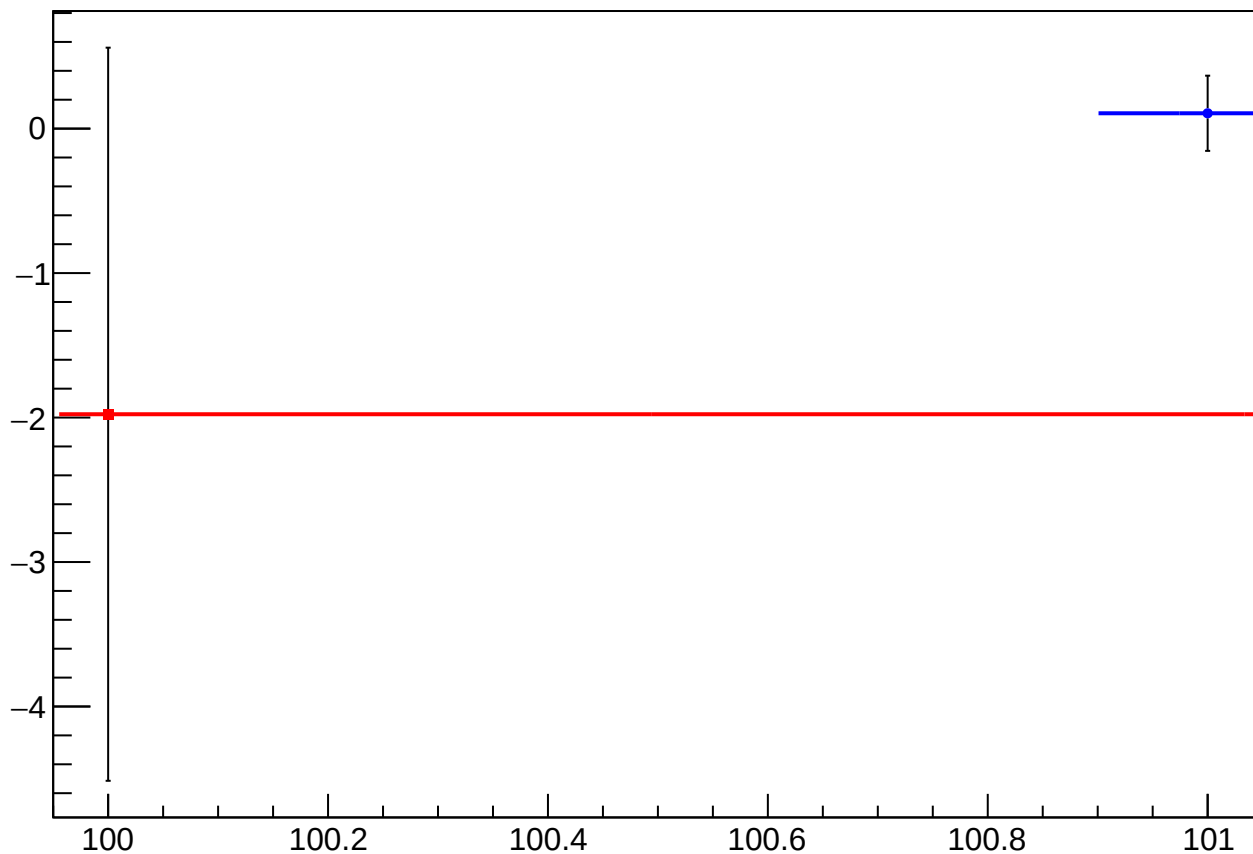
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4546.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4546.2/1

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977+/-2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

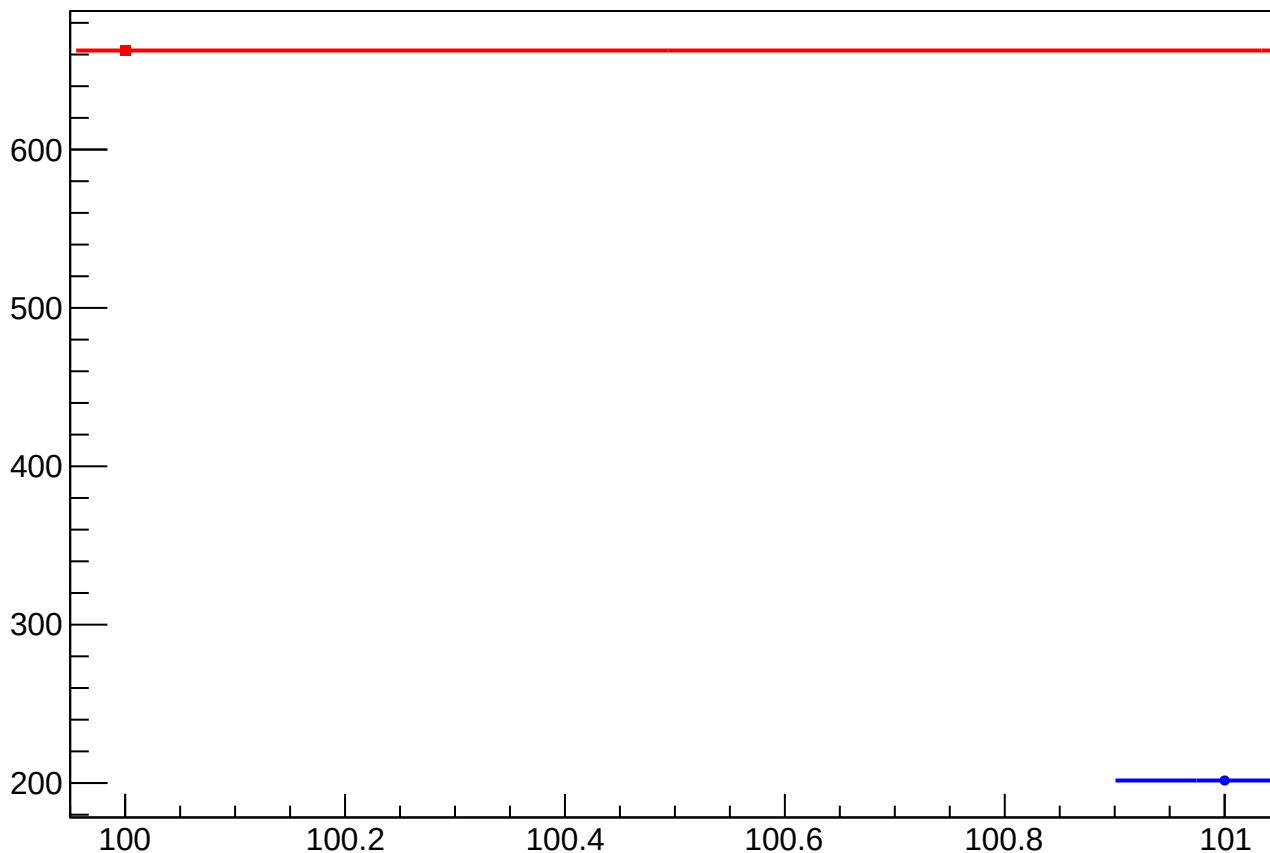
Right: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.597 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 662.534 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

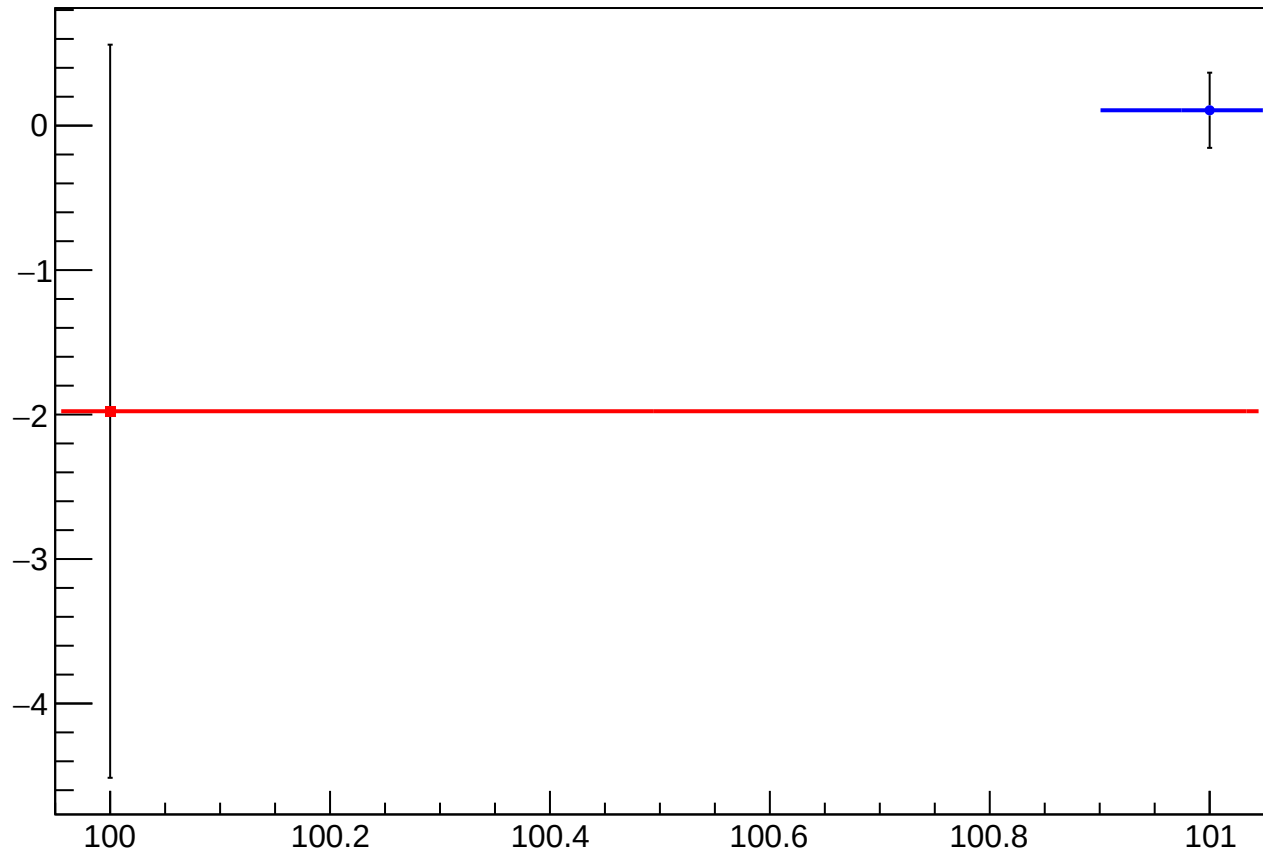
Right: 206.394 $\pm$ 0.183  $\chi^2$ /NDF: 65318.6/1

In: 201.597 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.394 $\pm$ 0.183  $\chi^2$ /NDF: 65318.6/1

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977+/-2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

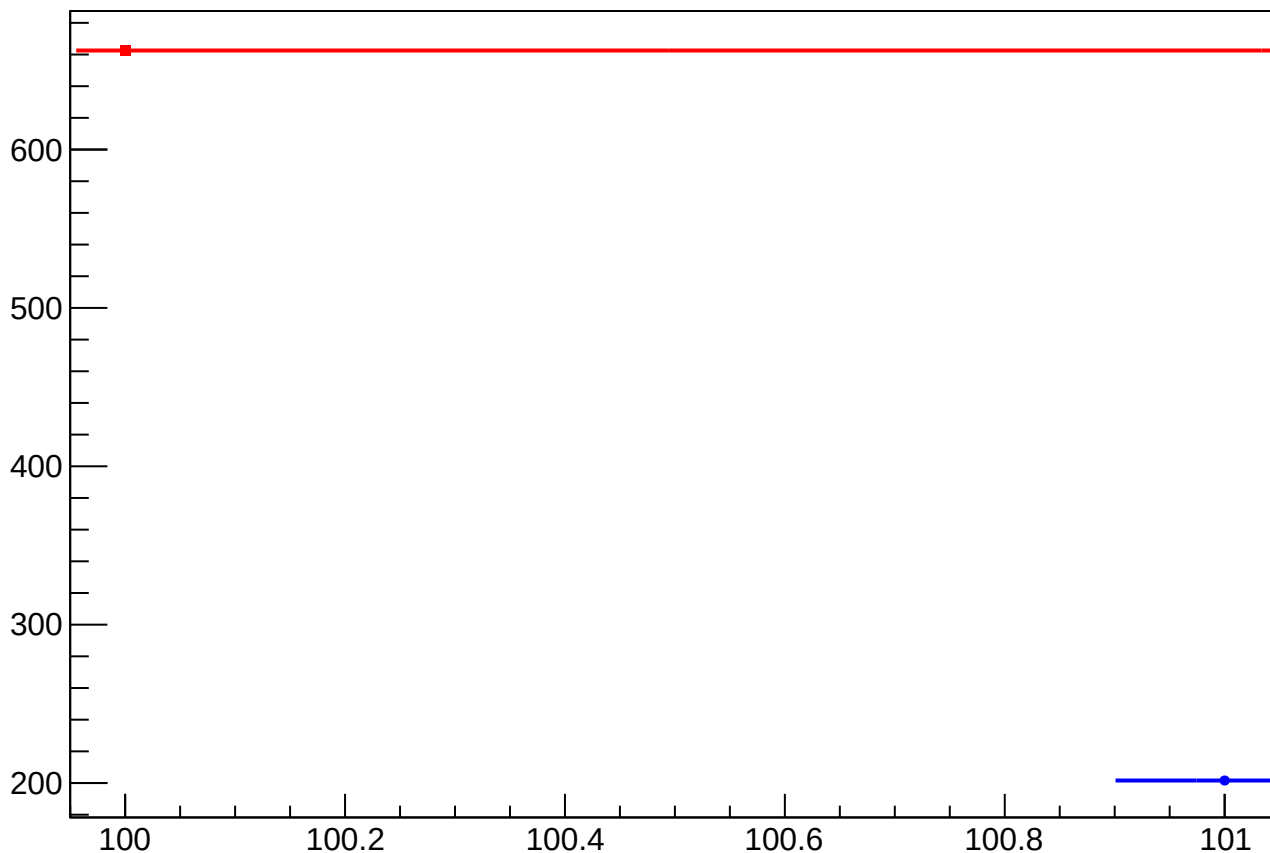
Right: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_at1\_avg\_at2\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.597 +/- 0.184  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 662.534 +/- 1.794  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 206.394 +/- 0.183  $\chi^2/\text{NDF}$ : 65318.6/1

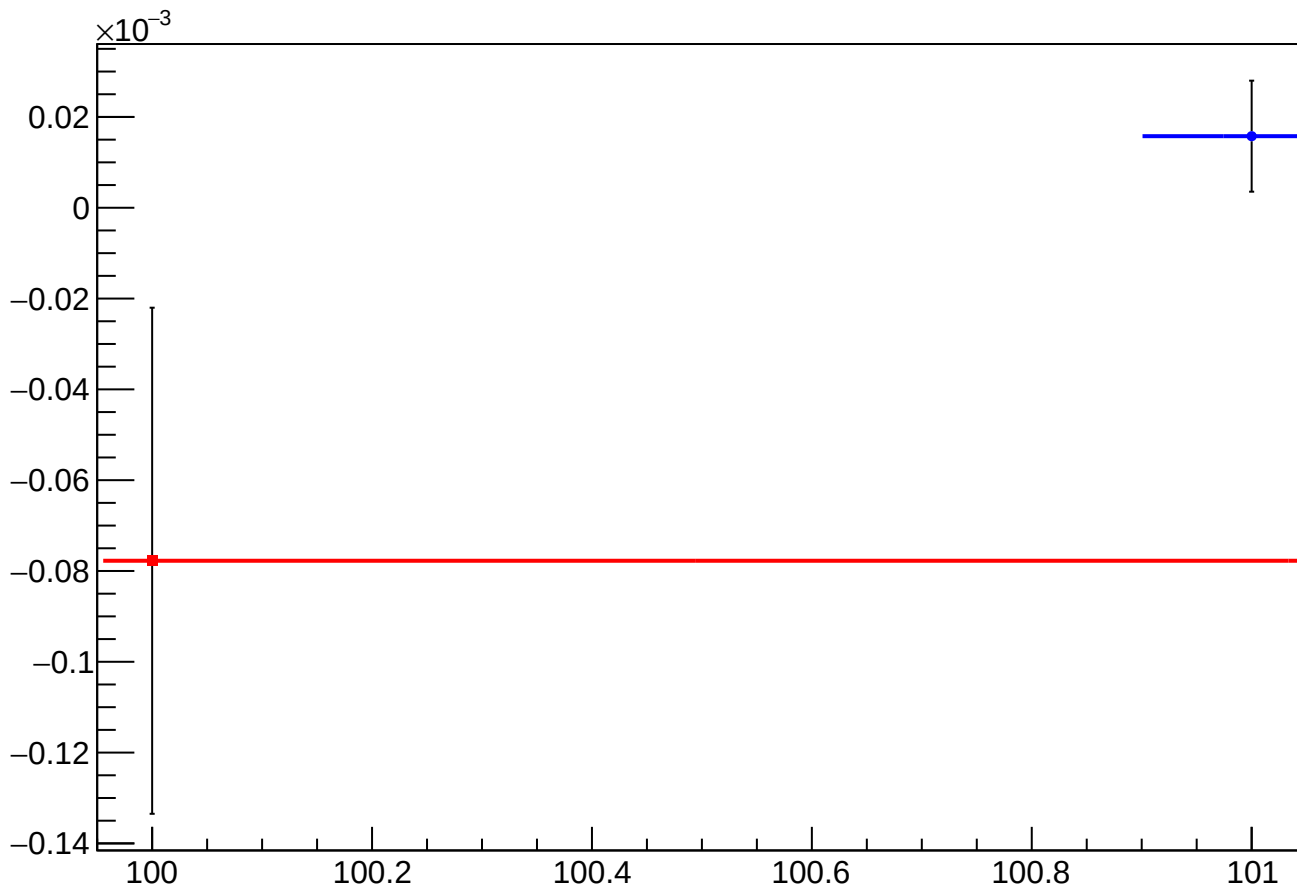
In: 201.597 +/- 0.184  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 206.394 +/- 0.183  $\chi^2/\text{NDF}$ : 65318.6/1



asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

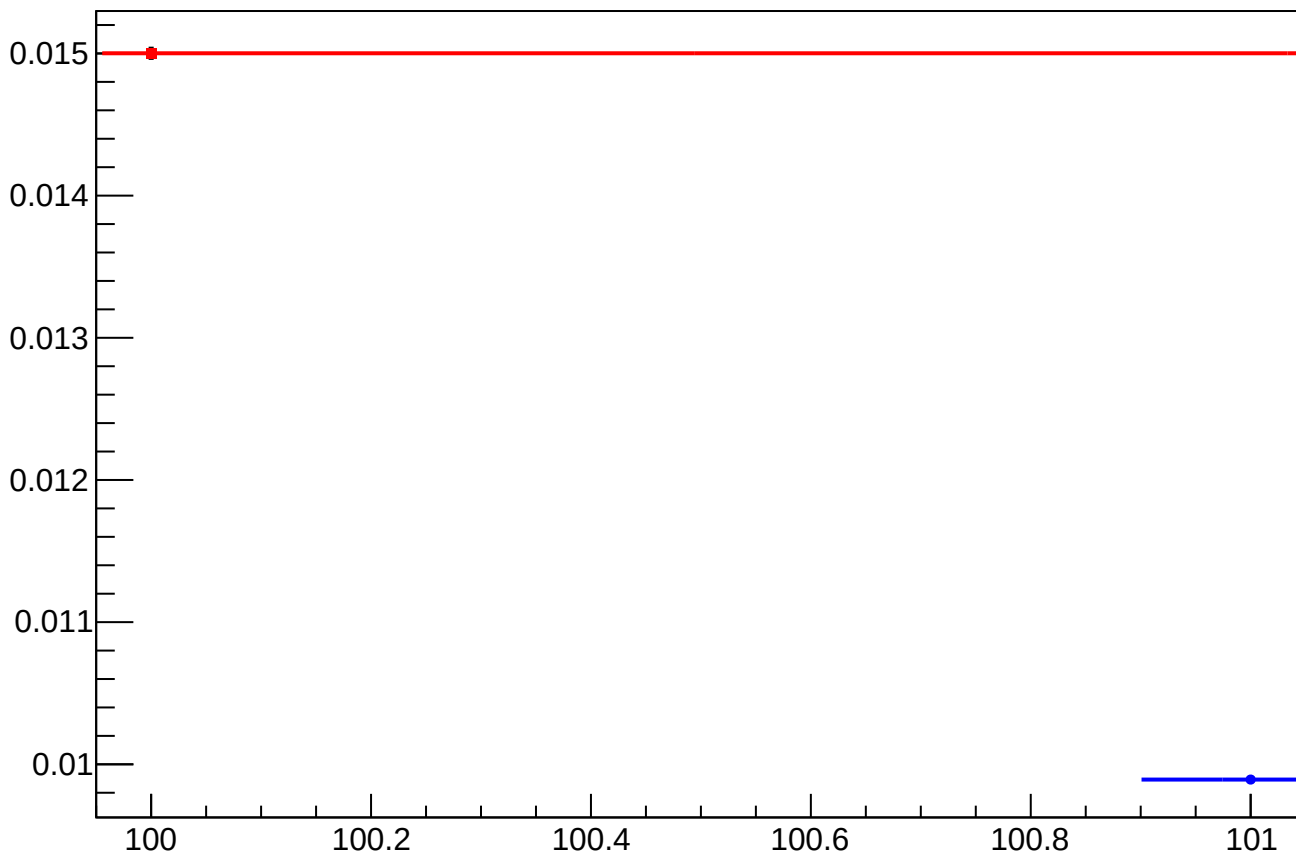
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

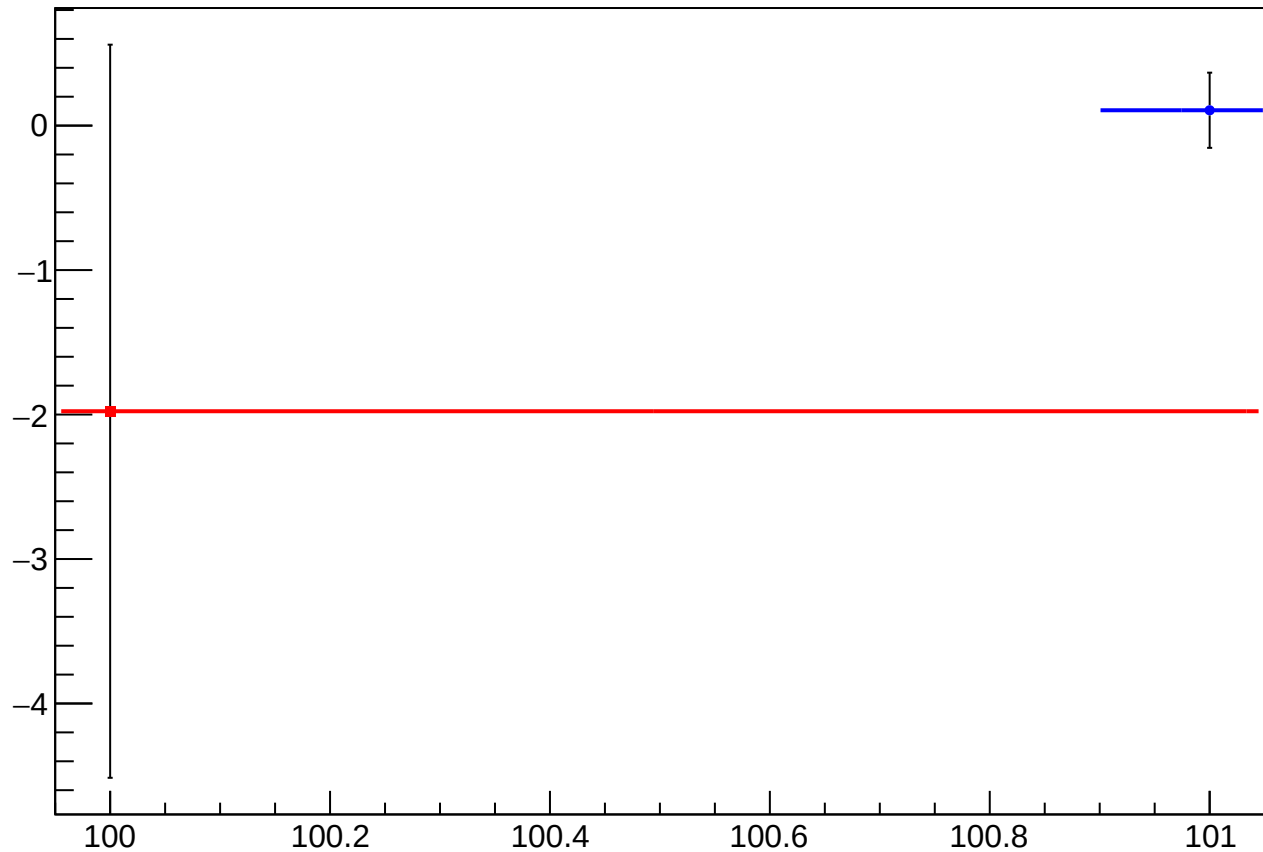
Right: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 16032.0/1

In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 16032.0/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.260  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.977 $\pm$ 2.537  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

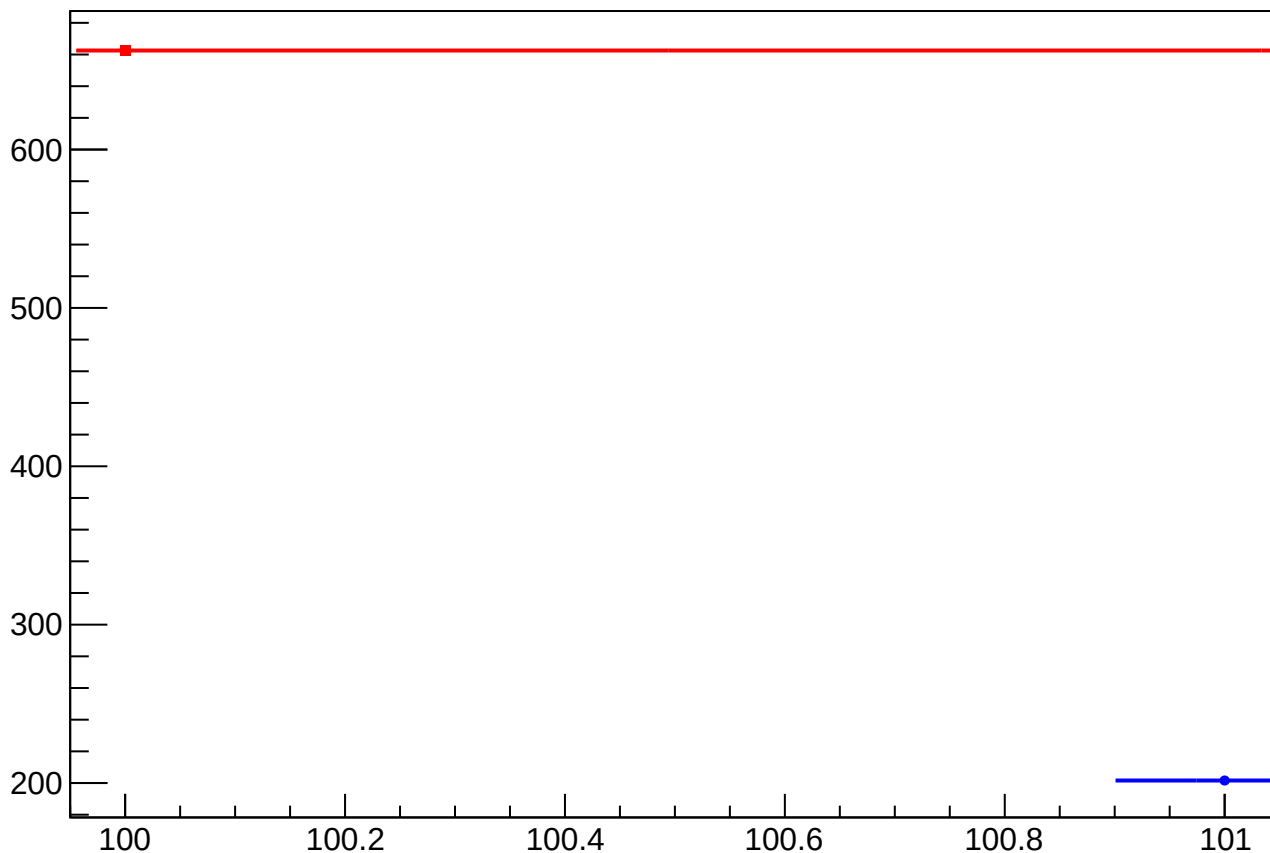
Right: 0.085 $\pm$ 0.259  $\chi^2$ /NDF: 0.7/1

In: 0.106 $\pm$ 0.260  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.085 $\pm$ 0.259  $\chi^2$ /NDF: 0.7/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 662.531 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

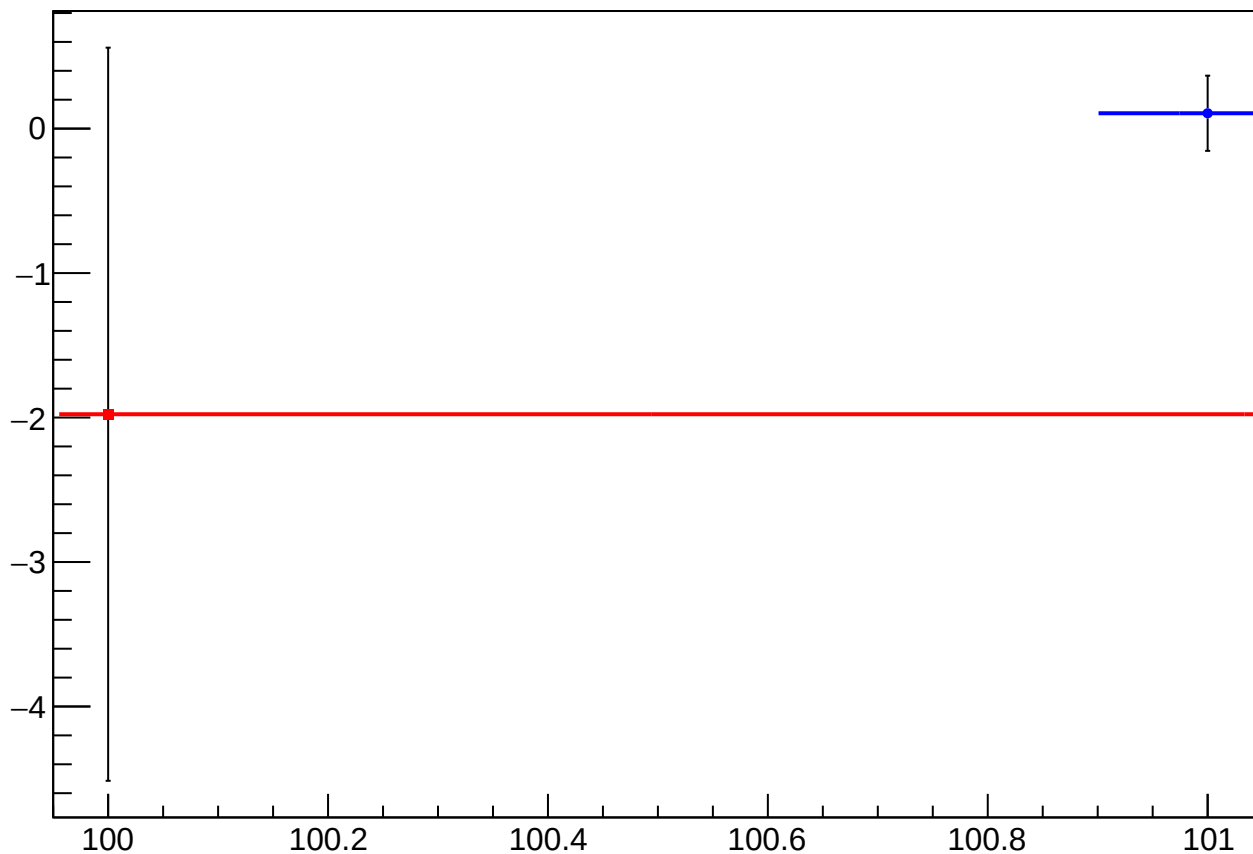
Right: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977+/-2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

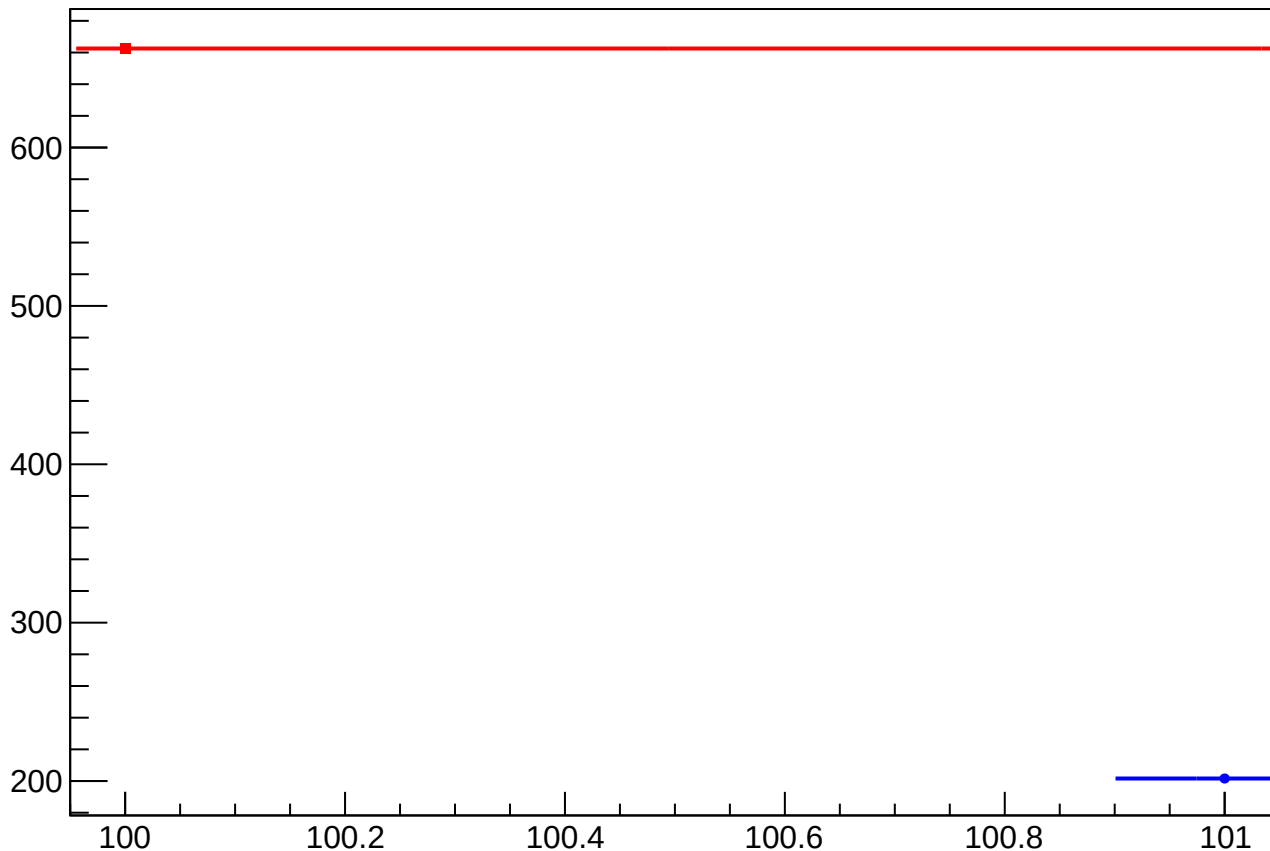
Right: 0.085+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.085+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.593±/-0.184  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 662.531±/-1.794  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

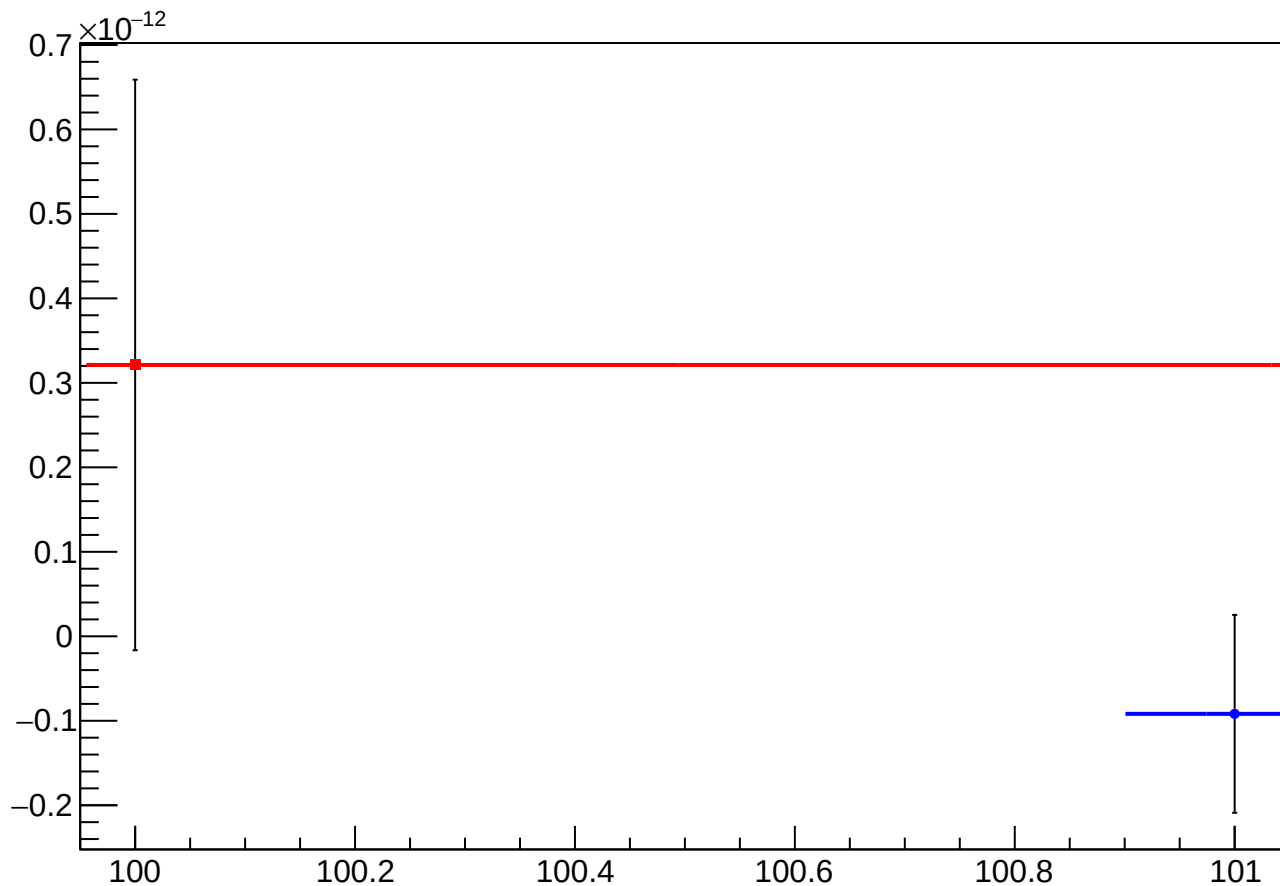
Right: 206.391±/-0.183  $\chi^2/\text{NDF}$ : 65319.4/1

In: 201.593±/-0.184  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 206.391±/-0.183  $\chi^2/\text{NDF}$ : 65319.4/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

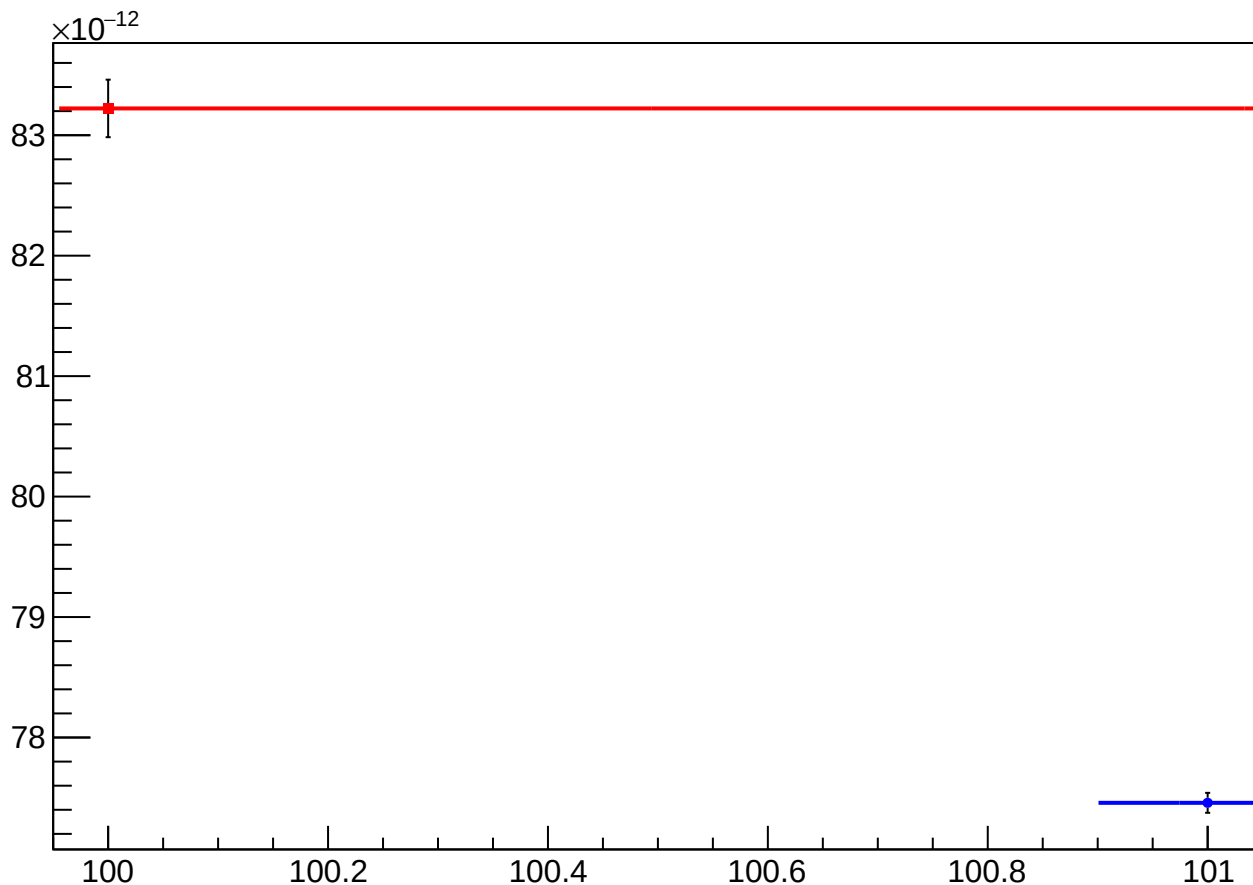
Right:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 1.3/1

In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 1.3/1

asym\_at1\_avg\_at2\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected

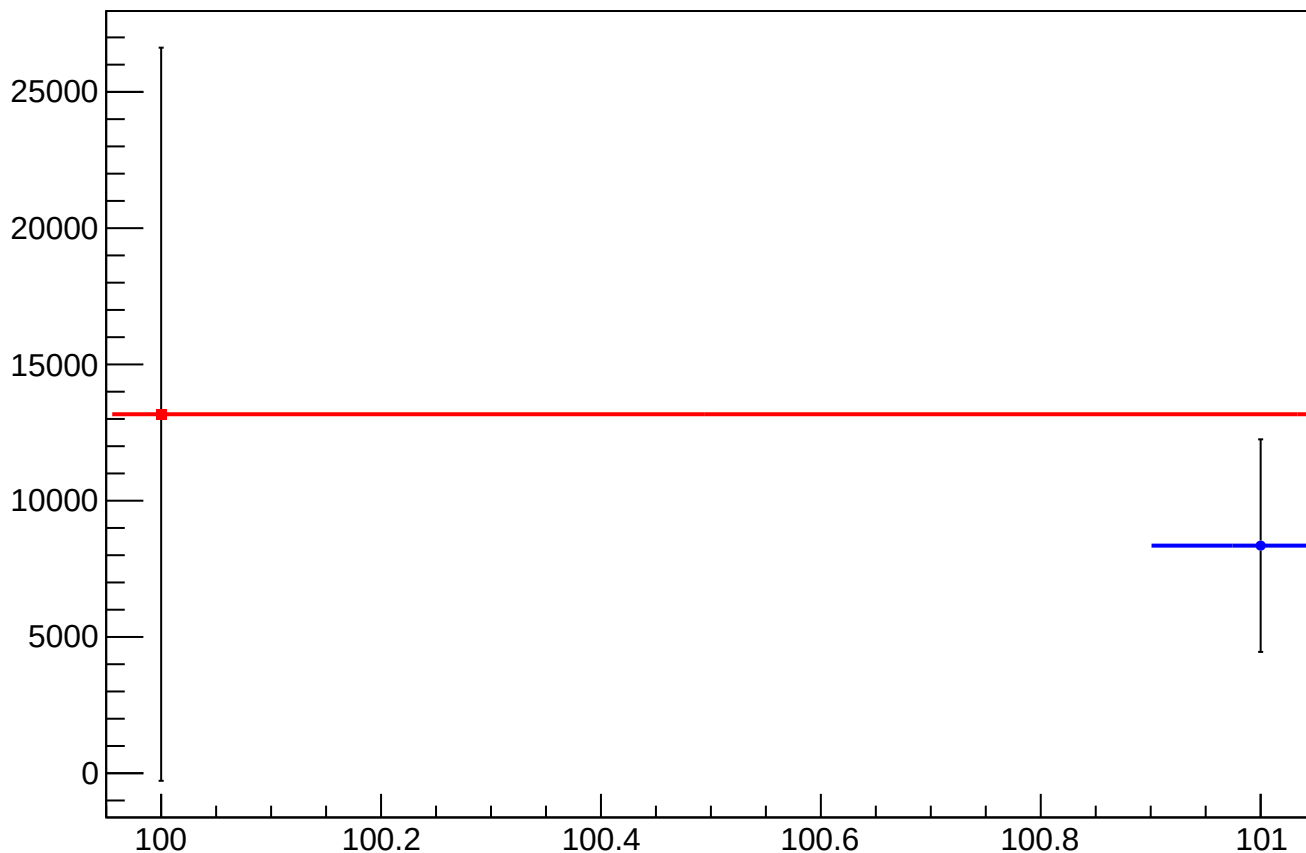


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 520.2/1  
 In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 520.2/1



reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 8351.777 $\pm$ 3900.093  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 13172.715 $\pm$ 13450.266  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

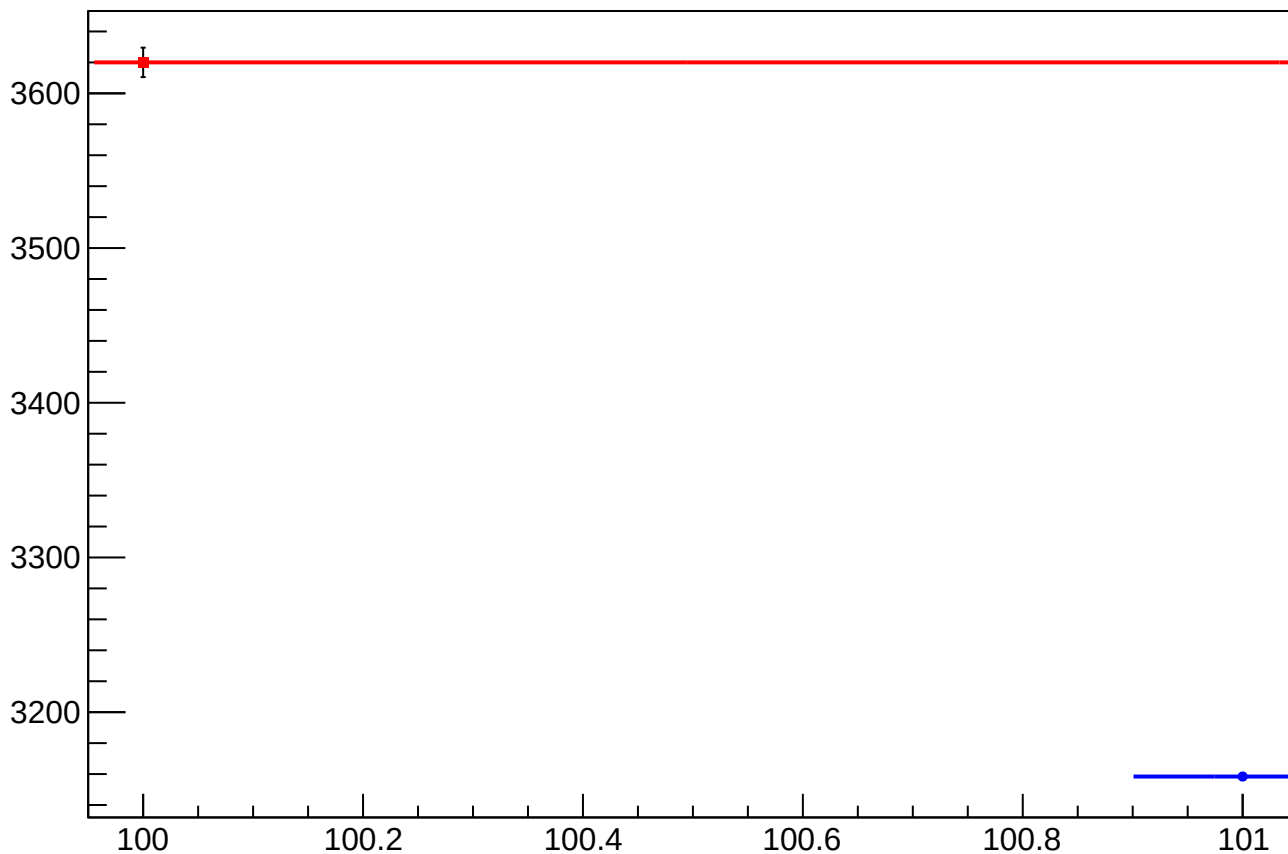
Right: 8725.680 $\pm$ 3745.799  $\chi^2$ /NDF: 0.1/1

In: 8351.777 $\pm$ 3900.093  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 8725.680 $\pm$ 3745.799  $\chi^2$ /NDF: 0.1/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3158.404 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3620.015 $\pm$ 9.511  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

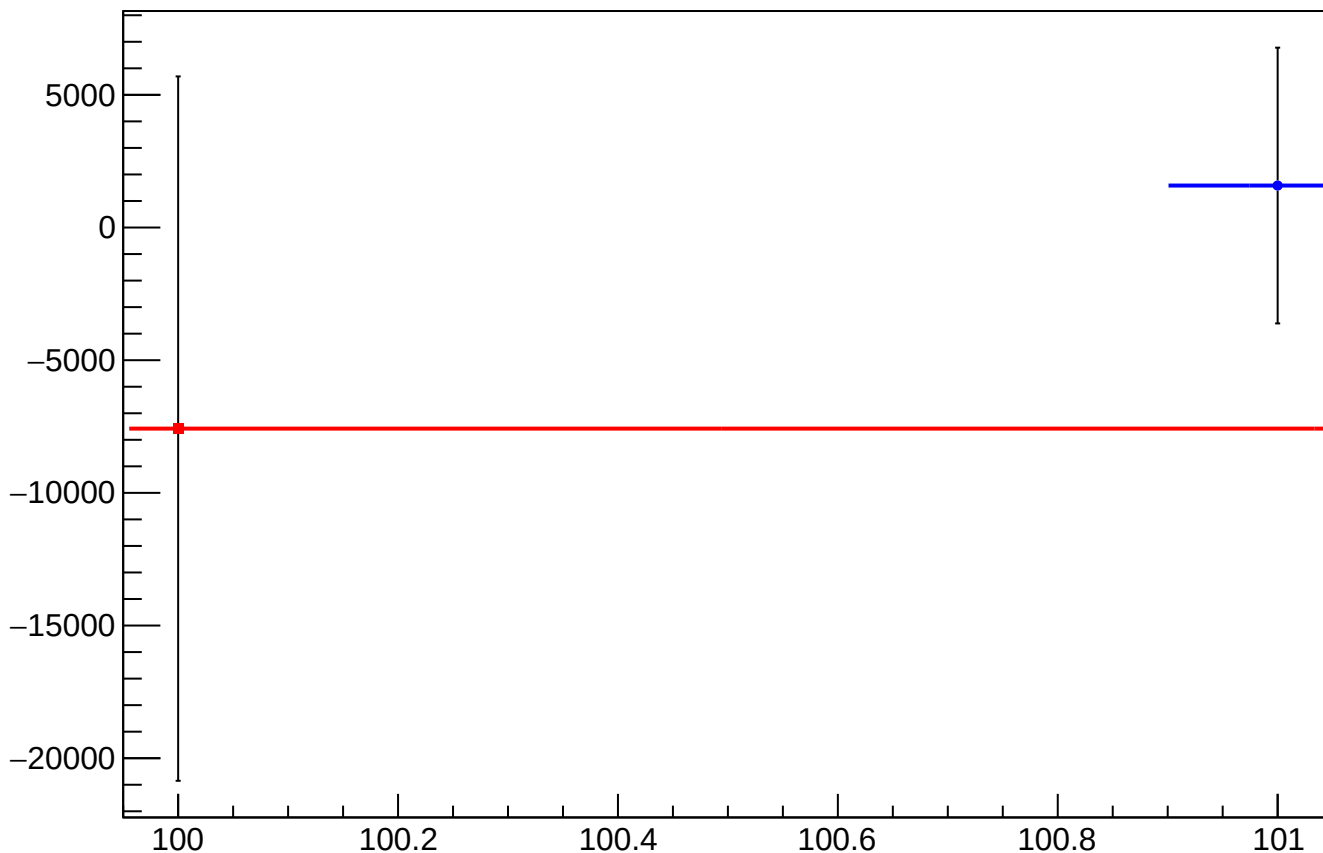
Right: 3194.205 $\pm$ 2.649  $\chi^2$ /NDF: 2173.0/1

In: 3158.404 $\pm$ 2.758  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3194.205 $\pm$ 2.649  $\chi^2$ /NDF: 2173.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1582.202 $\pm$ 5196.012  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -7578.128 $\pm$ 13272.992  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

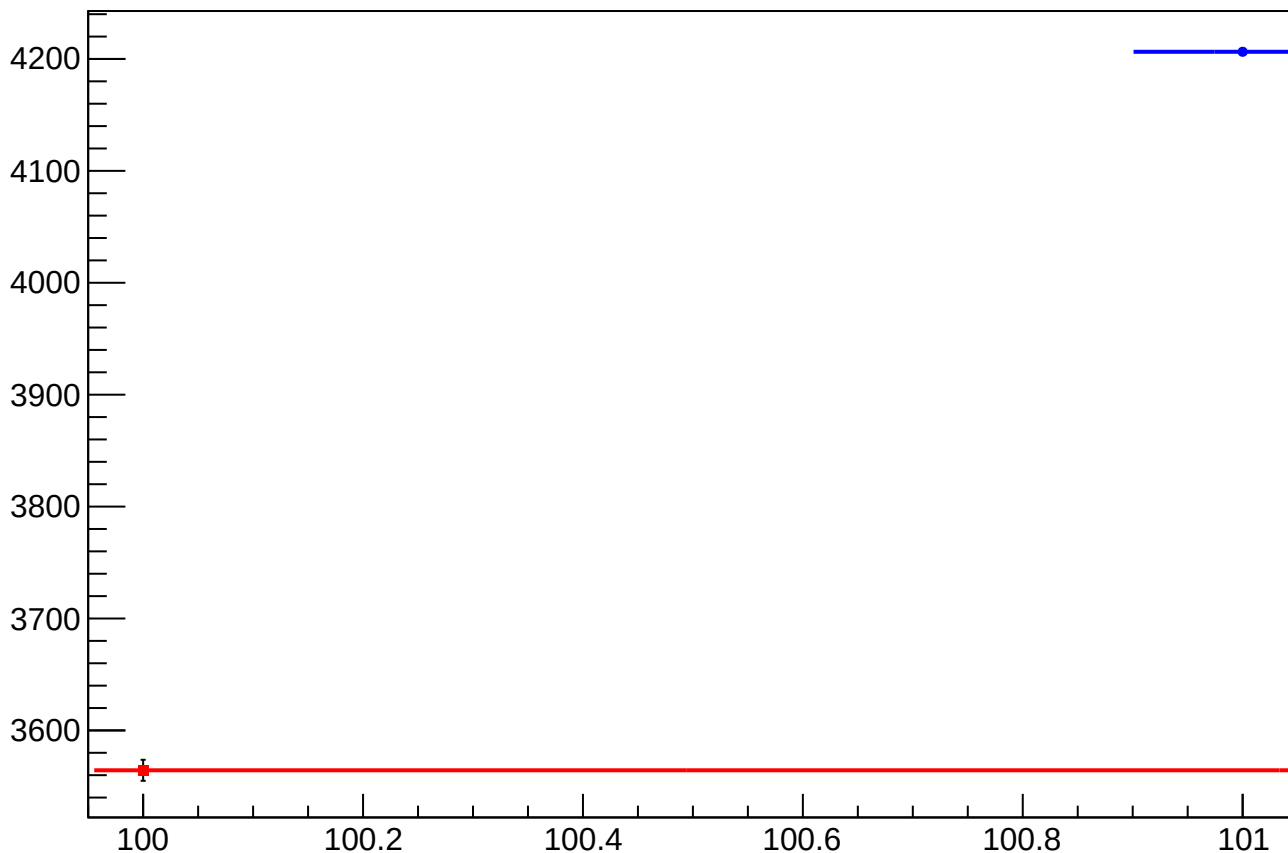
Right: 364.923 $\pm$ 4838.473  $\chi^2$ /NDF: 0.4/1

In: 1582.202 $\pm$ 5196.012  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 364.923 $\pm$ 4838.473  $\chi^2$ /NDF: 0.4/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4206.409+/-3.674  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3564.365+/-9.385  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

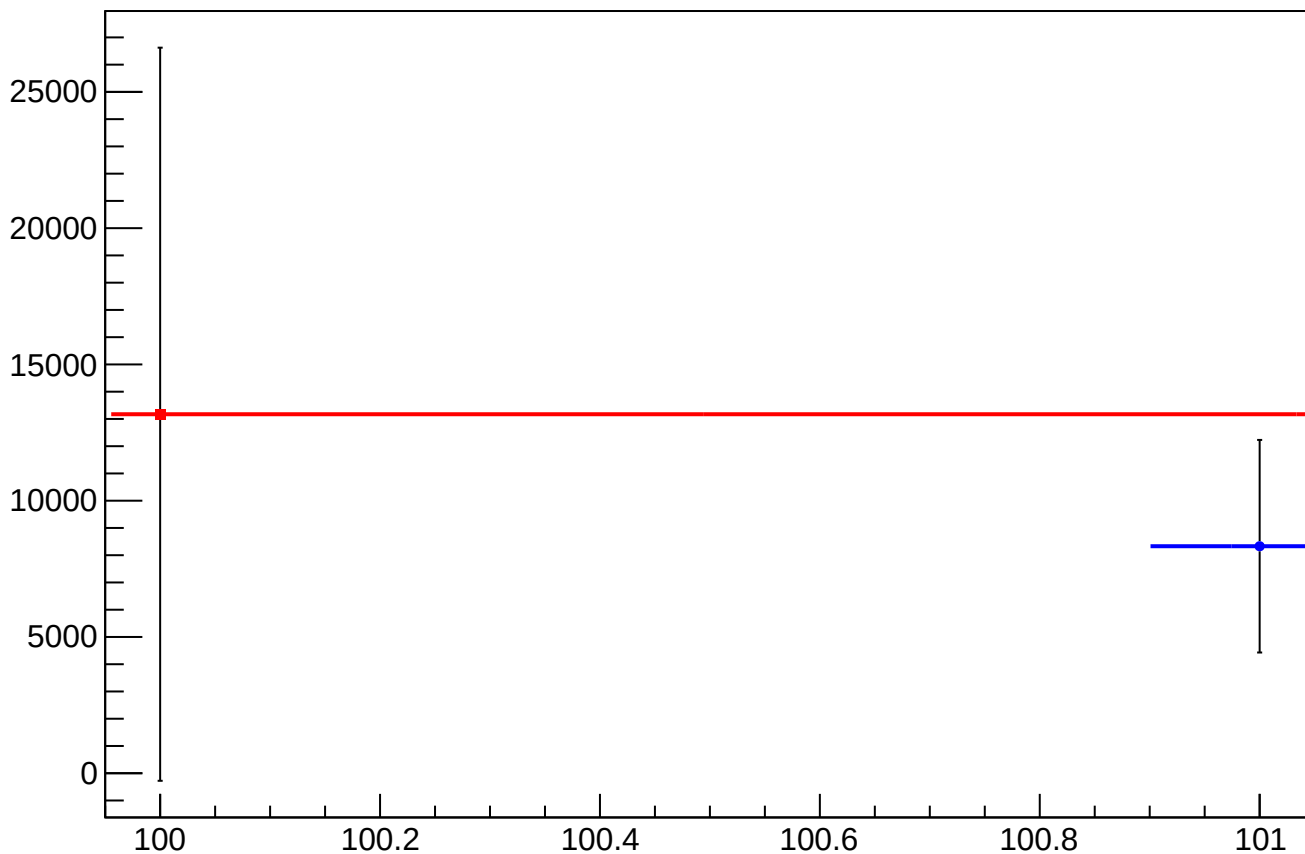
Right: 4121.090+/-3.421  $\chi^2/\text{NDF}$ : 4057.9/1

In: 4206.409+/-3.674  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4121.090+/-3.421  $\chi^2/\text{NDF}$ : 4057.9/1

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13172.682+/-13450.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

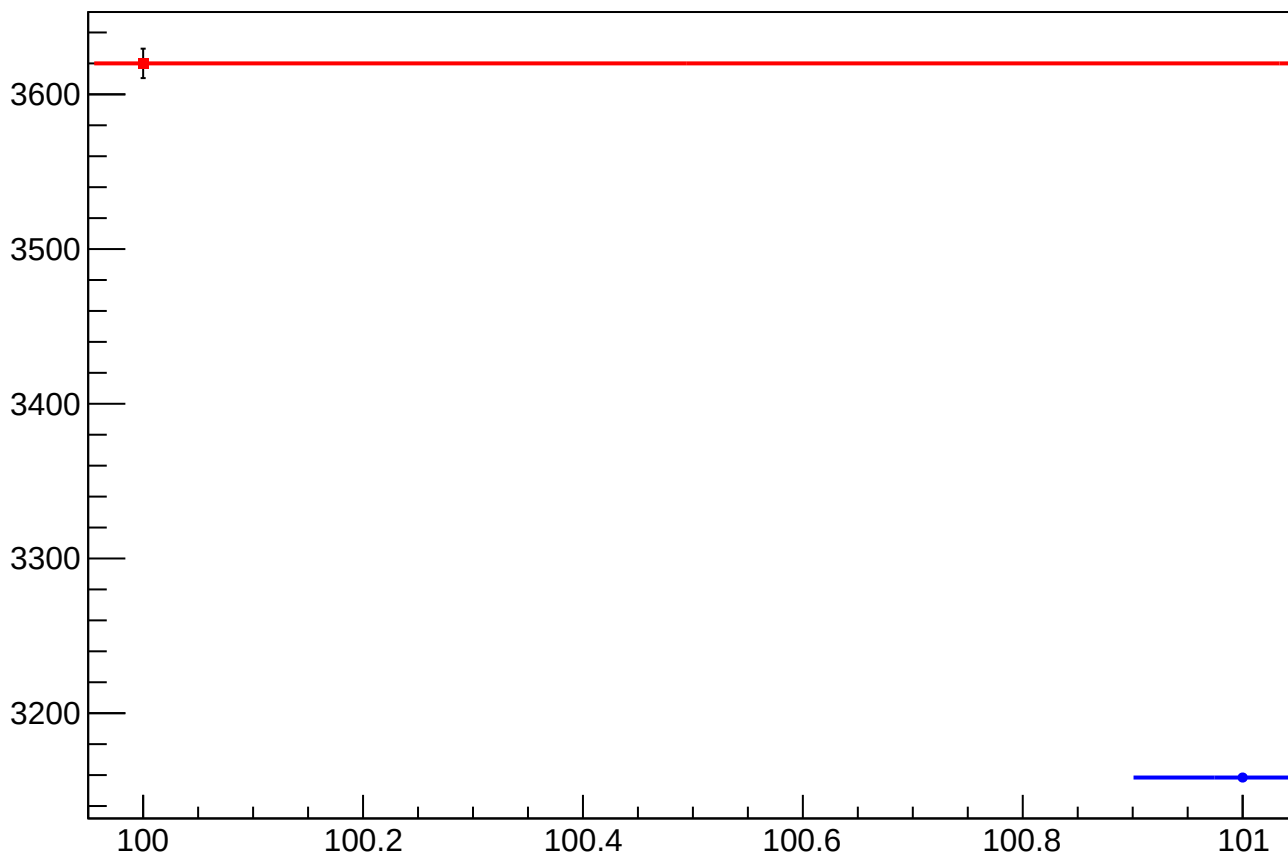
Right: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3158.415 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3620.015 $\pm$ 9.511  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

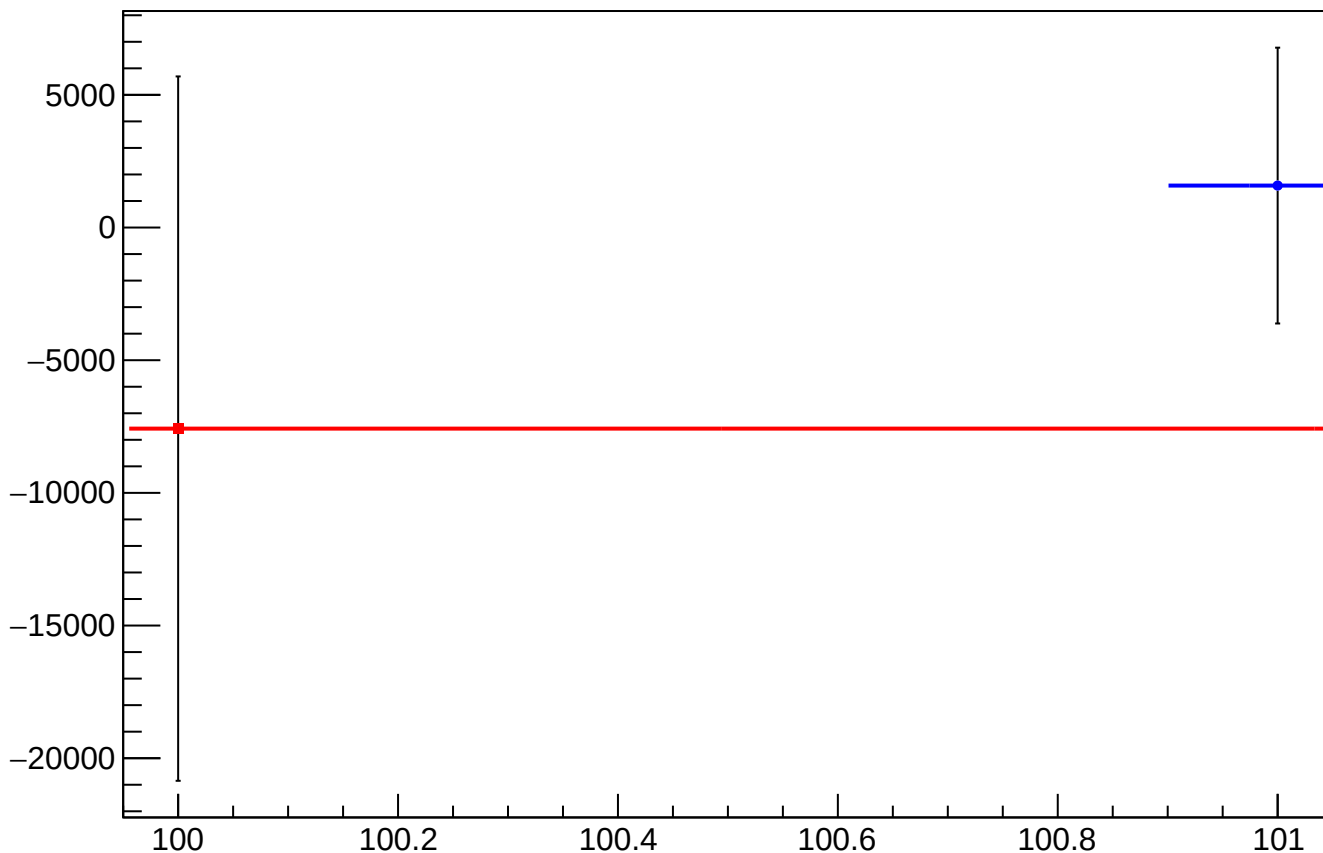
Right: 3194.216 $\pm$ 2.649  $\chi^2$ /NDF: 2172.9/1

In: 3158.415 $\pm$ 2.758  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3194.216 $\pm$ 2.649  $\chi^2$ /NDF: 2172.9/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7578.169+/-13272.990  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

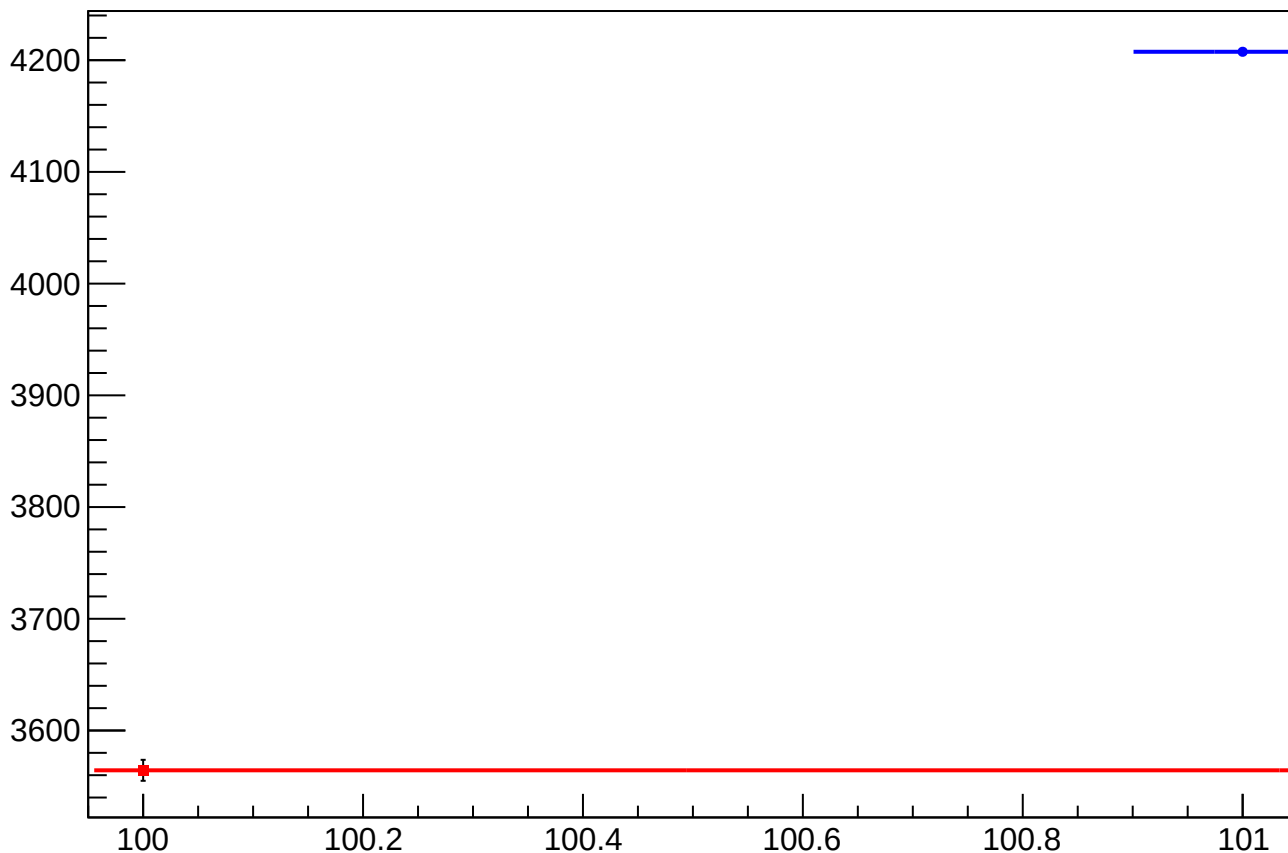
Right: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4207.526 $\pm$ 3.675  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3564.365 $\pm$ 9.385  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4122.021 $\pm$ 3.422  $\chi^2$ /NDF: 4071.7/1

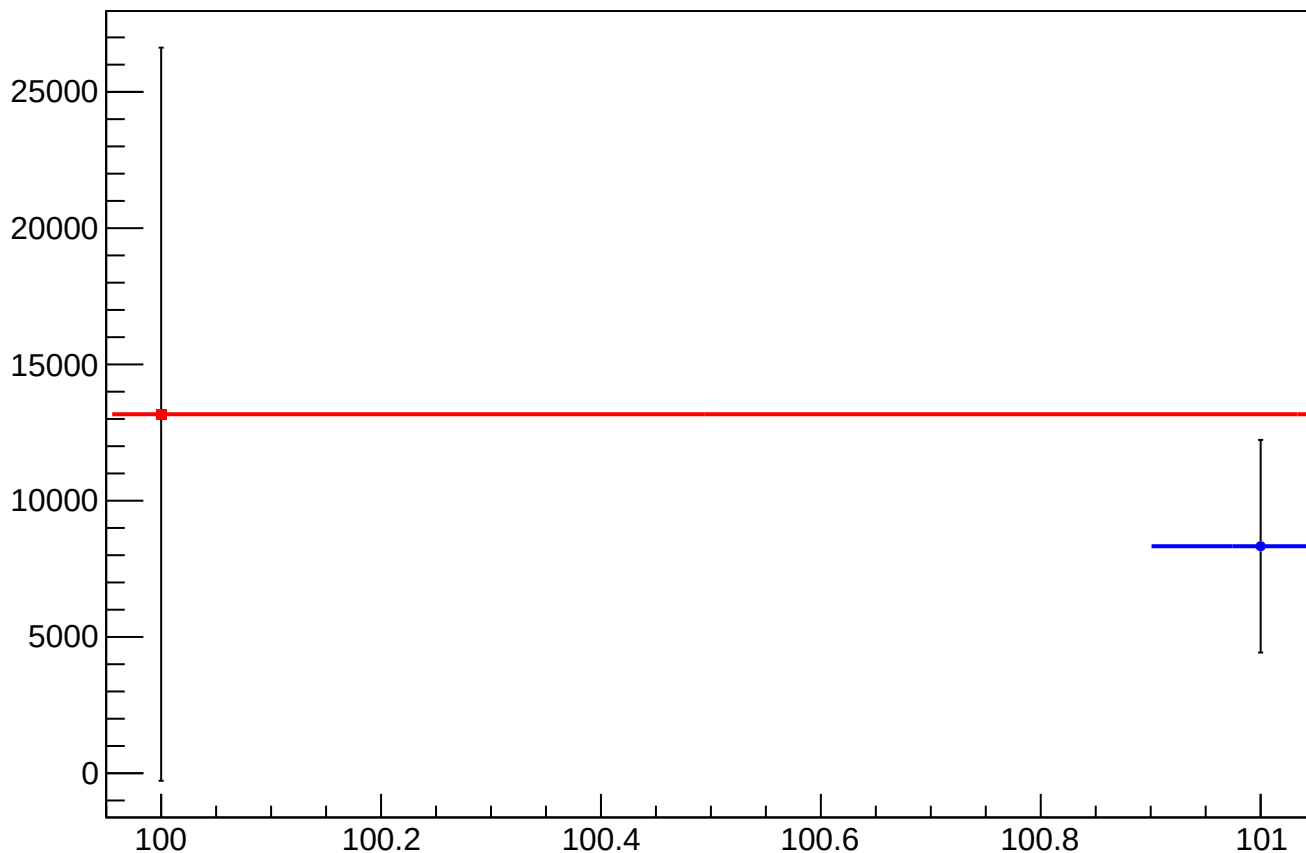
In: 4207.526 $\pm$ 3.675  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4122.021 $\pm$ 3.422  $\chi^2$ /NDF: 4071.7/1



eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13172.682+/-13450.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

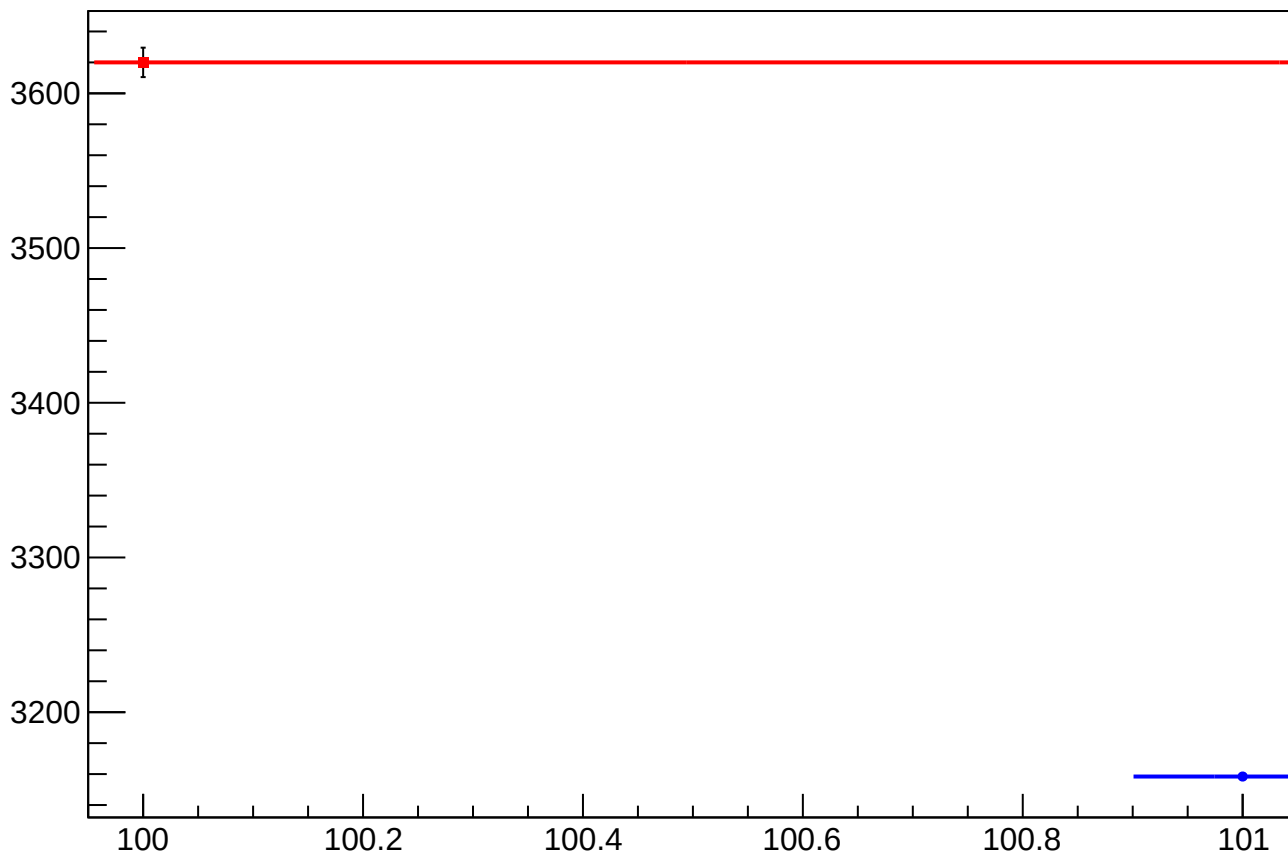
Right: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

In: 8329.753+/-3900.112  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8705.364+/-3745.816  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3158.415 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3620.015 $\pm$ 9.511  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

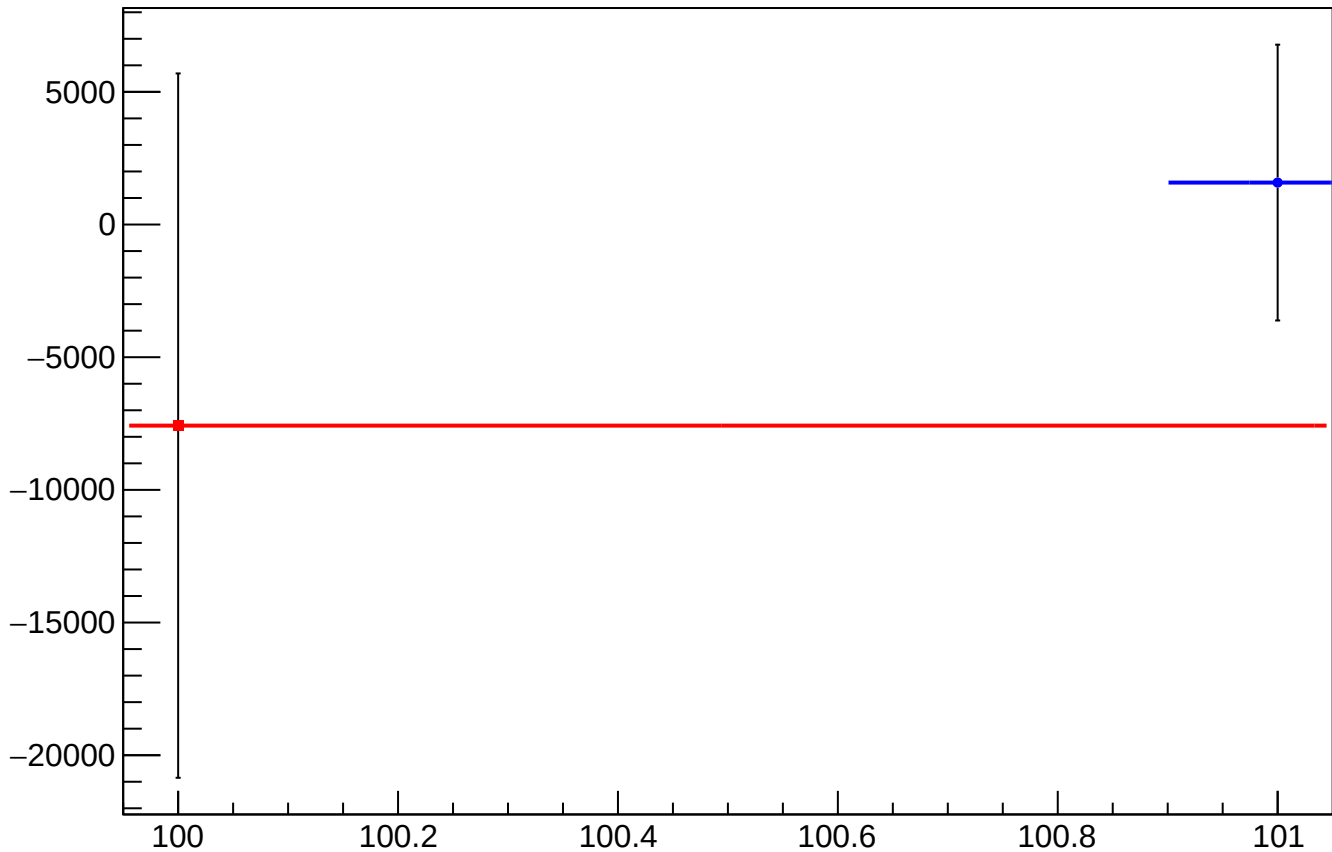
Right: 3194.216 $\pm$ 2.649  $\chi^2$ /NDF: 2172.9/1

In: 3158.415 $\pm$ 2.758  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3194.216 $\pm$ 2.649  $\chi^2$ /NDF: 2172.9/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7578.169+/-13272.990  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

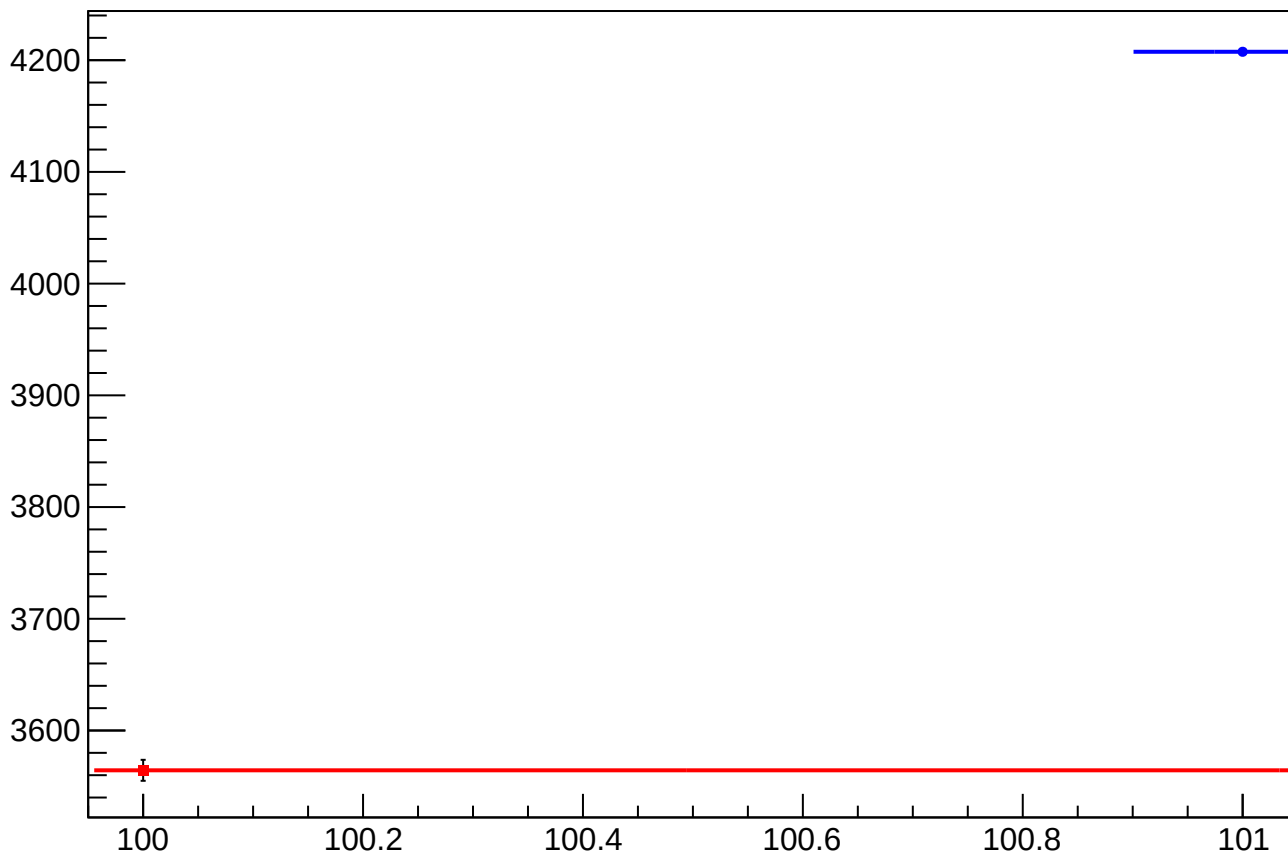
Right: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

In: 1581.331+/-5197.313  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 363.634+/-4839.523  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4207.526 $\pm$ 3.675  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3564.365 $\pm$ 9.385  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

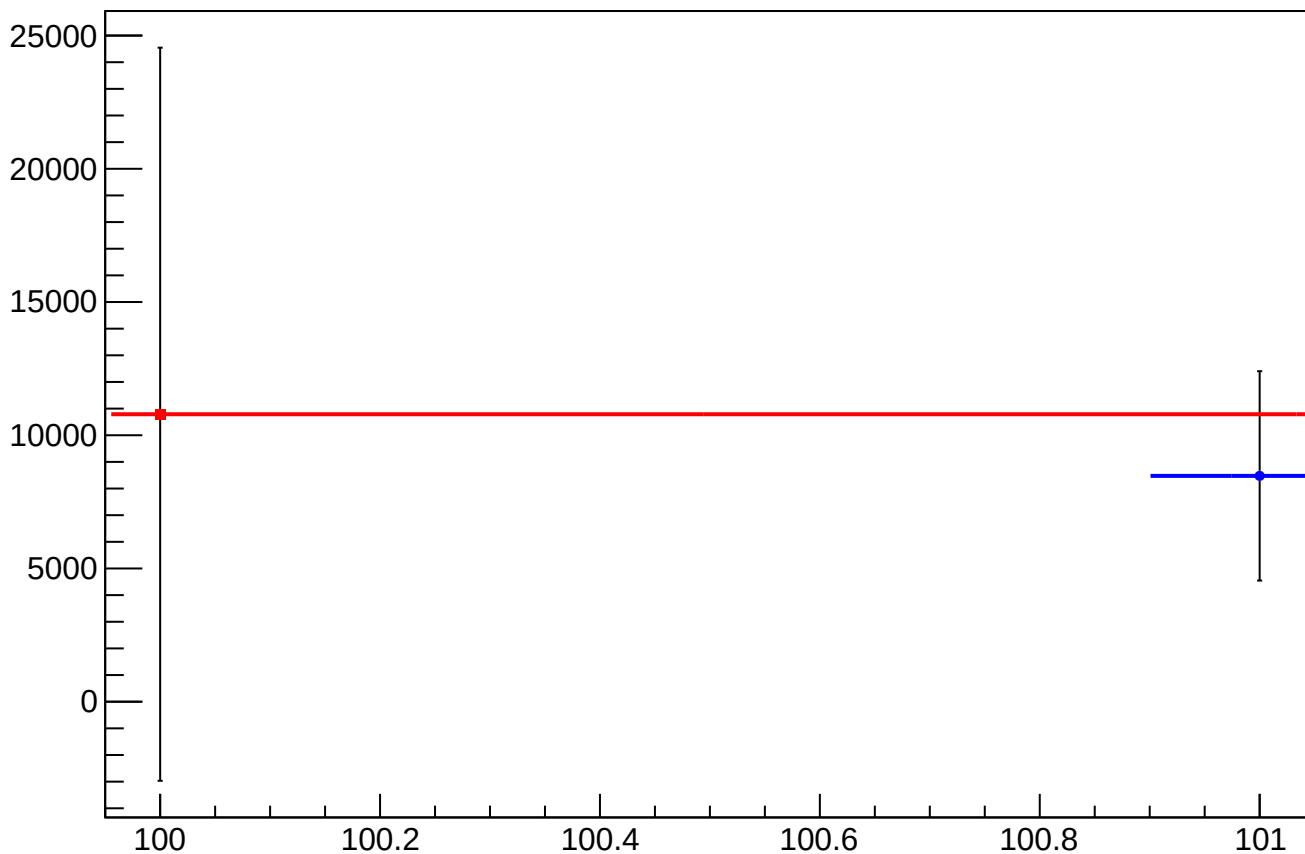
Right: 4122.021 $\pm$ 3.422  $\chi^2/\text{NDF}$ : 4071.7/1

In: 4207.526 $\pm$ 3.675  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4122.021 $\pm$ 3.422  $\chi^2/\text{NDF}$ : 4071.7/1

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 8475.157+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10788.514+/-13756.935  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

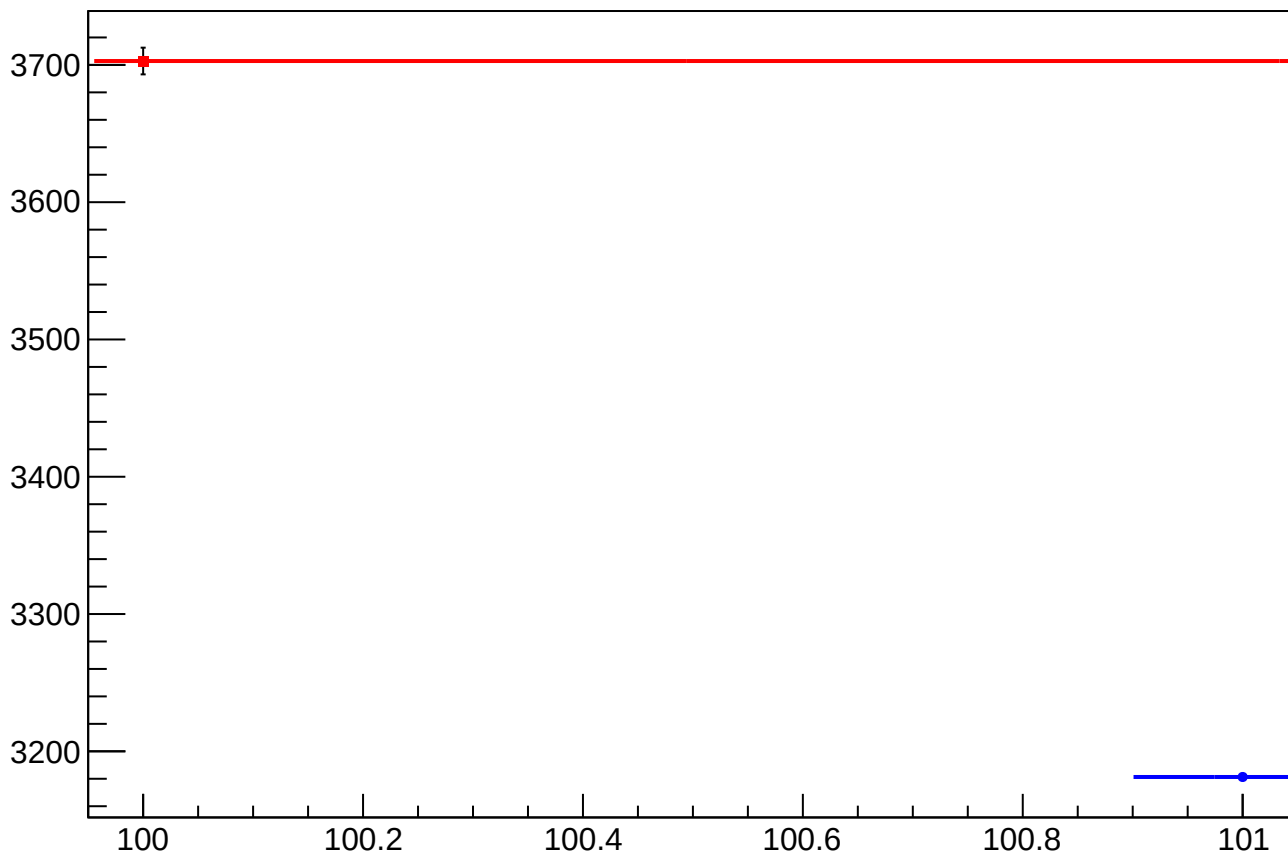
Right: 8649.639+/-3778.115  $\chi^2/\text{NDF}$ : 0.0/1

In: 8475.157+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8649.639+/-3778.115  $\chi^2/\text{NDF}$ : 0.0/1

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3181.298+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3702.830+/-9.728  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

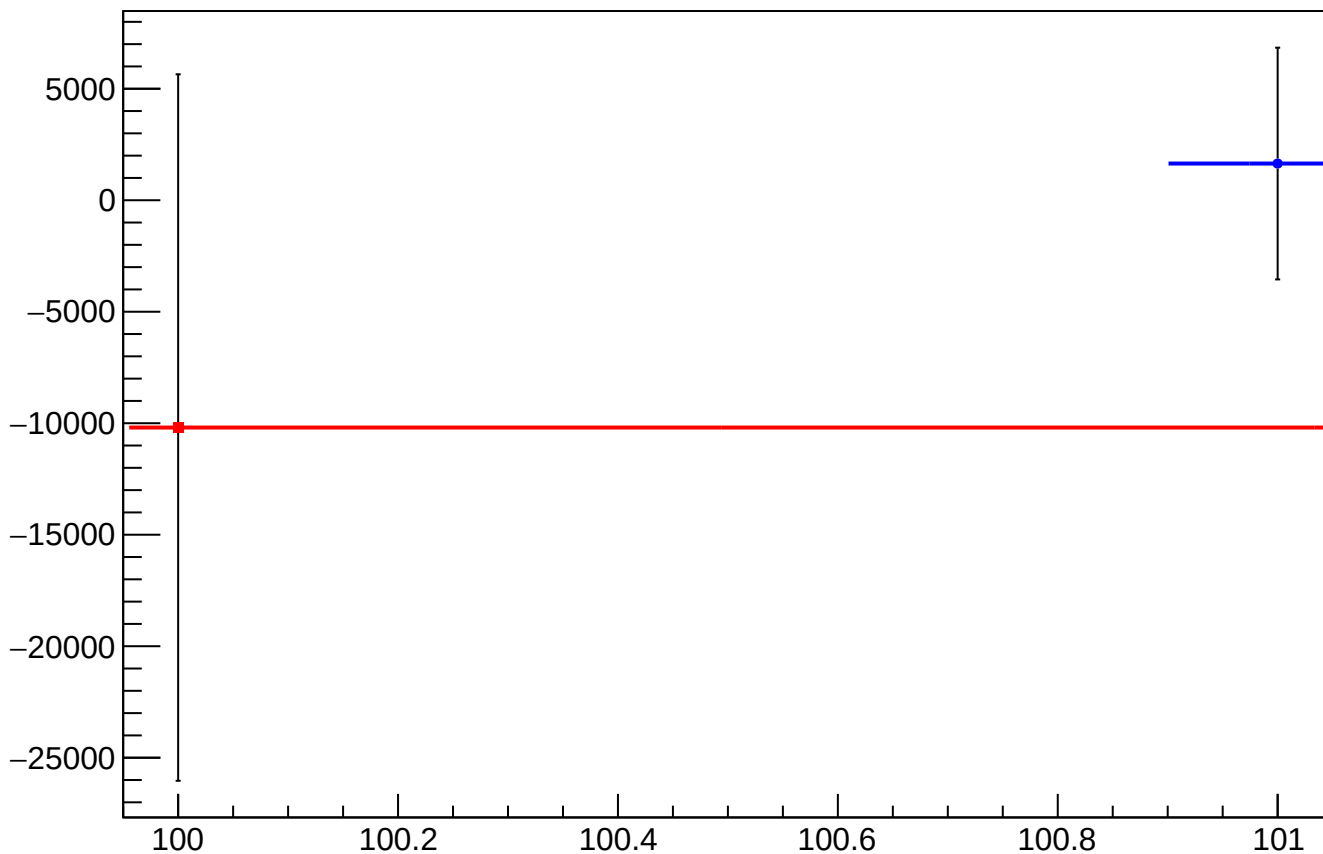
Right: 3220.634+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

In: 3181.298+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3220.634+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1645.506+/-5196.241  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10193.400+/-15841.746  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

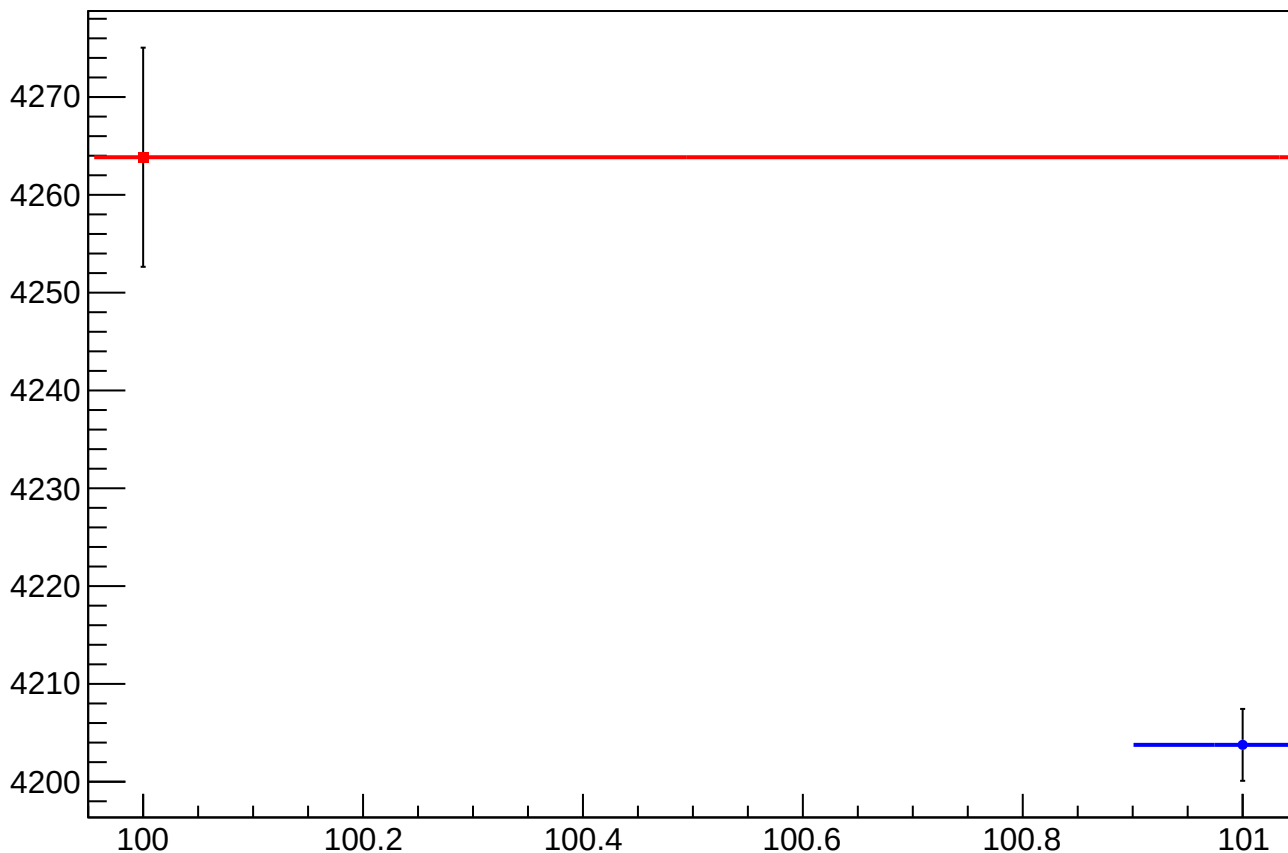
Right: 495.487+/-4937.416  $\chi^2/\text{NDF}$ : 0.5/1

In: 1645.506+/-5196.241  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 495.487+/-4937.416  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4203.768 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4263.844 $\pm$ 11.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4209.604 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1

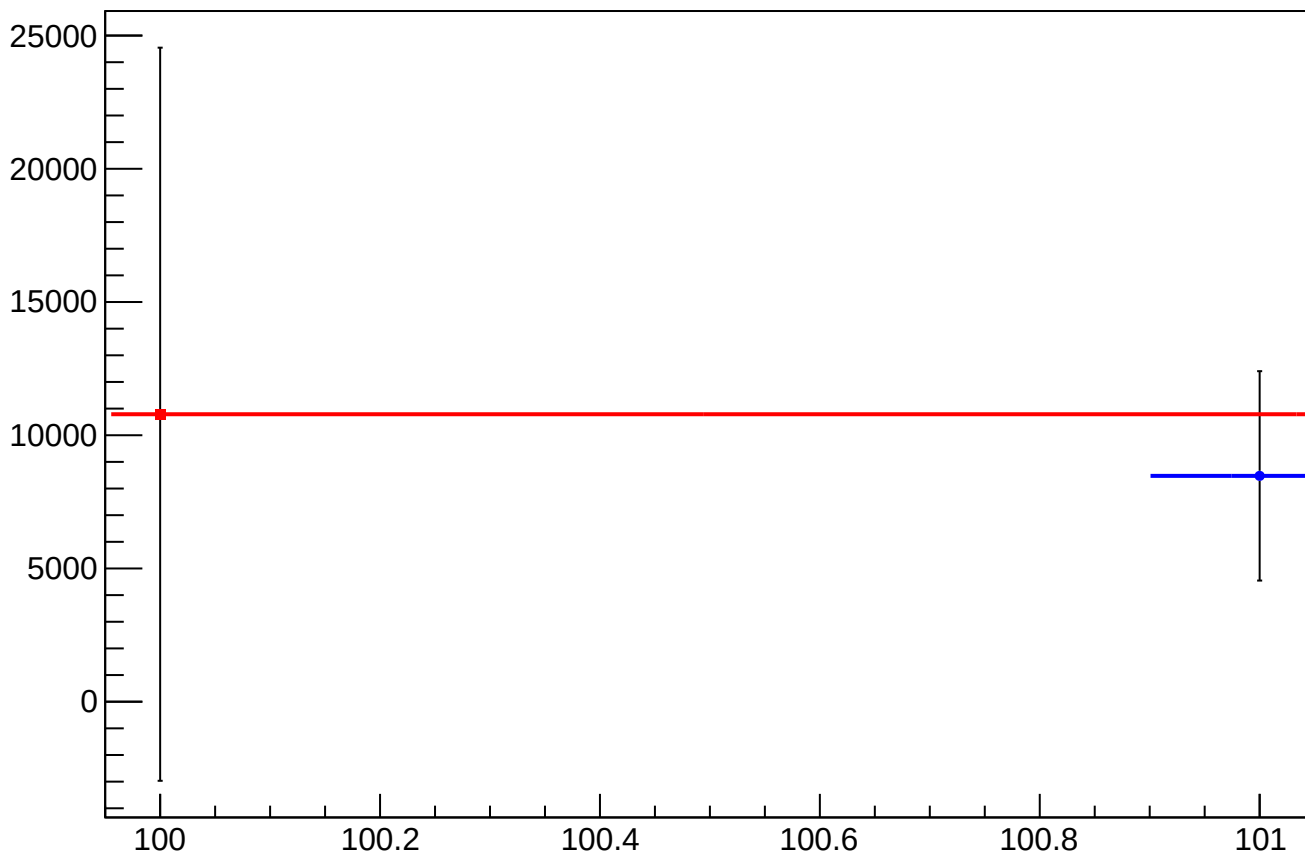
In: 4203.768 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4209.604 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1



eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 8475.177+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10788.431+/-13756.932  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

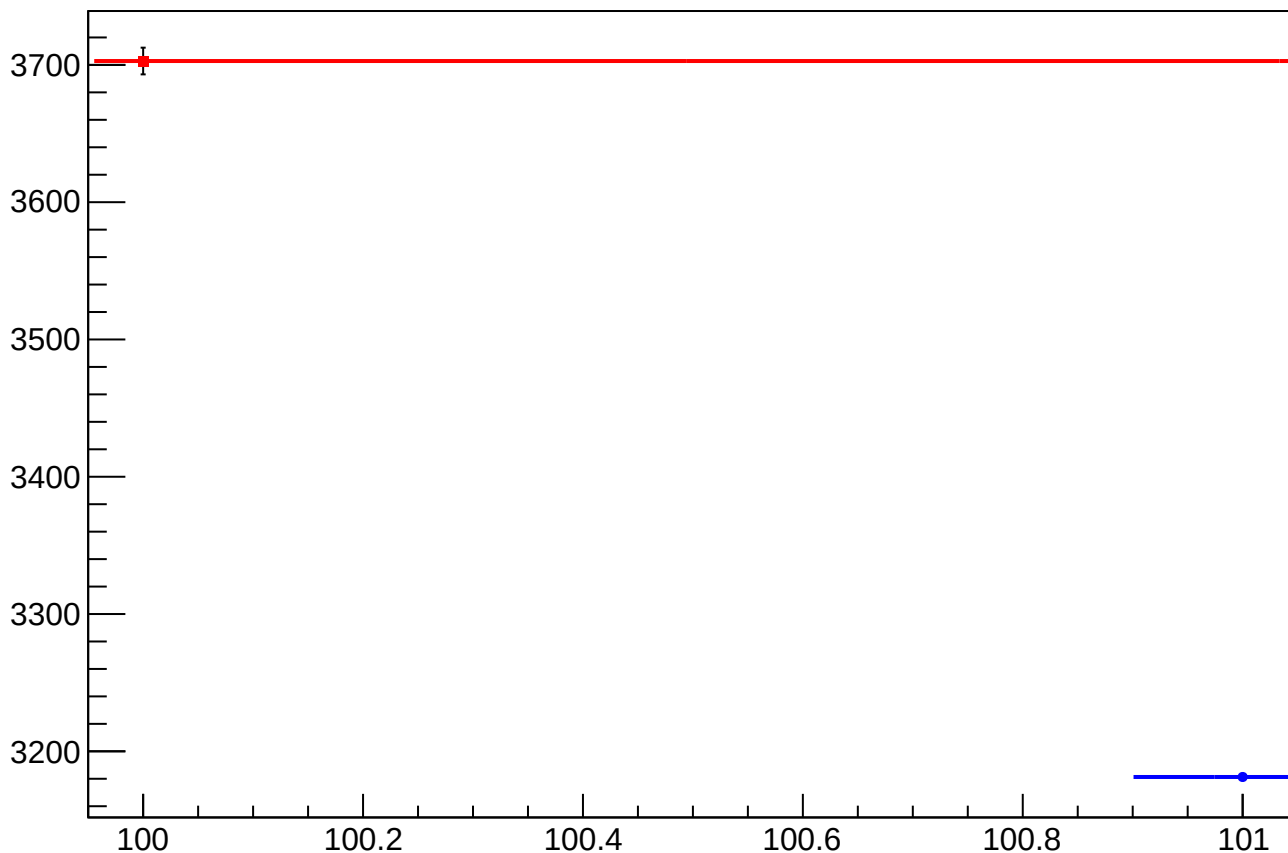
Right: 8649.651+/-3778.114  $\chi^2/\text{NDF}$ : 0.0/1

In: 8475.177+/-3929.196  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8649.651+/-3778.114  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3181.297+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3702.830+/-9.728  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

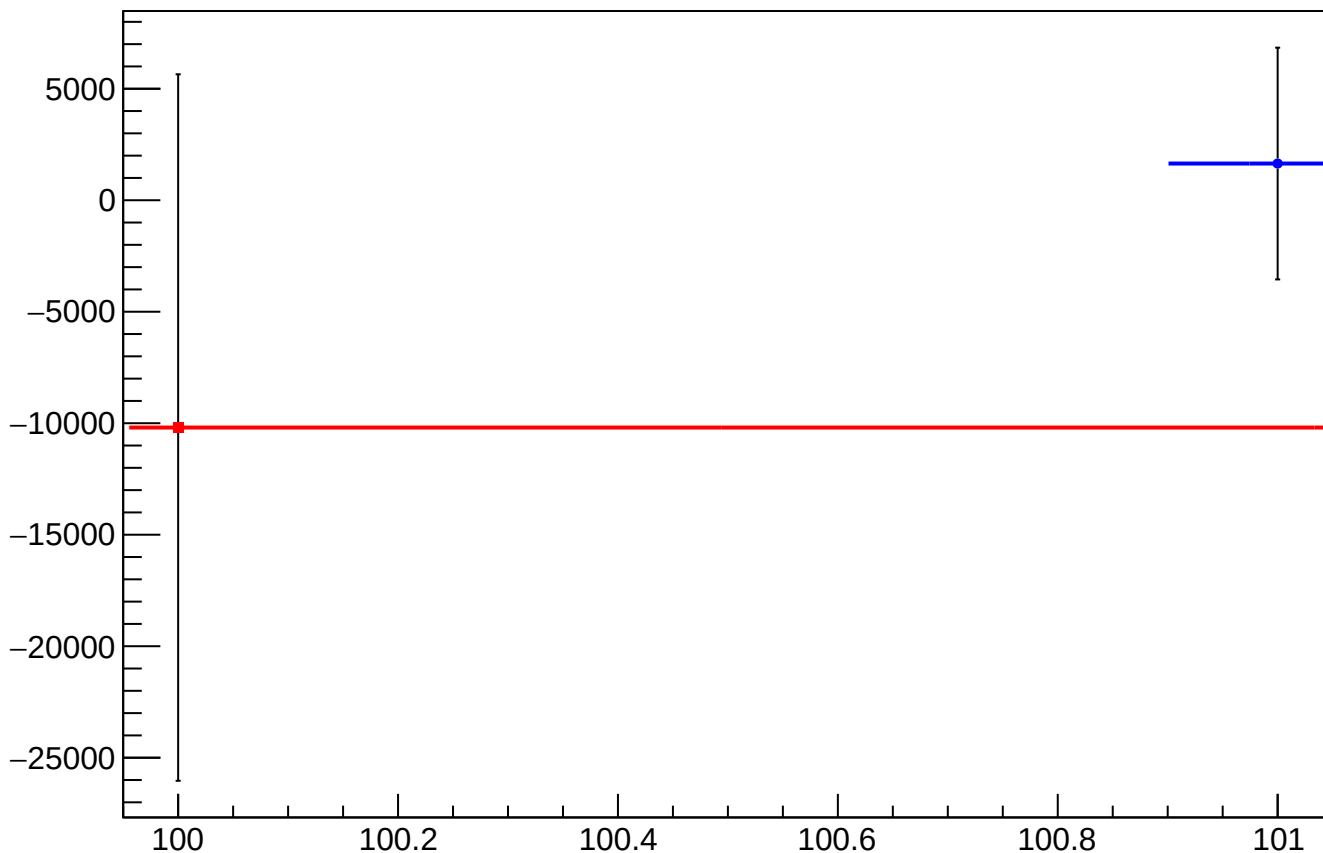
Right: 3220.633+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

In: 3181.297+/-2.778  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3220.633+/-2.672  $\chi^2/\text{NDF}$ : 2657.6/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1645.520+/-5196.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10193.477+/-15841.719  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

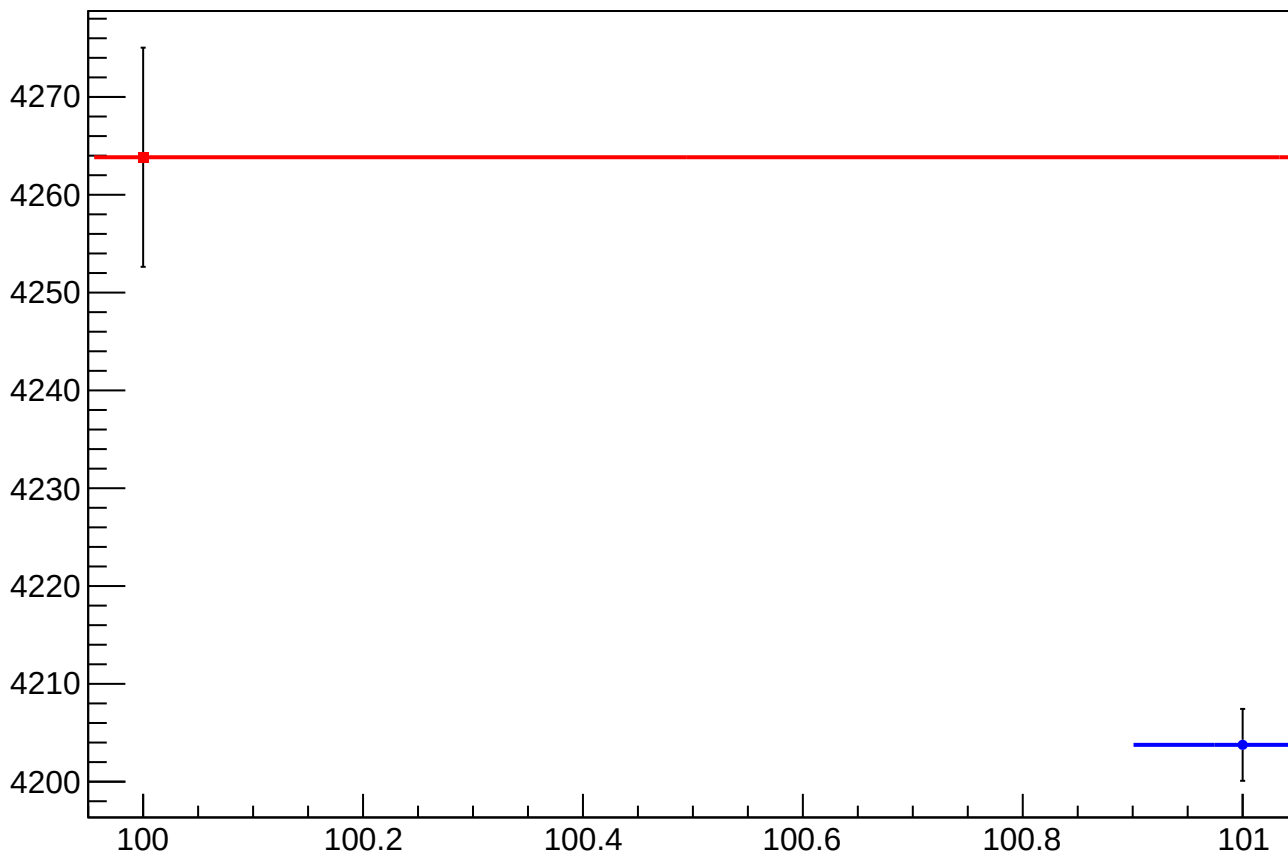
Right: 495.491+/-4937.411  $\chi^2/\text{NDF}$ : 0.5/1

In: 1645.520+/-5196.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 495.491+/-4937.411  $\chi^2/\text{NDF}$ : 0.5/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4203.764 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4263.837 $\pm$ 11.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

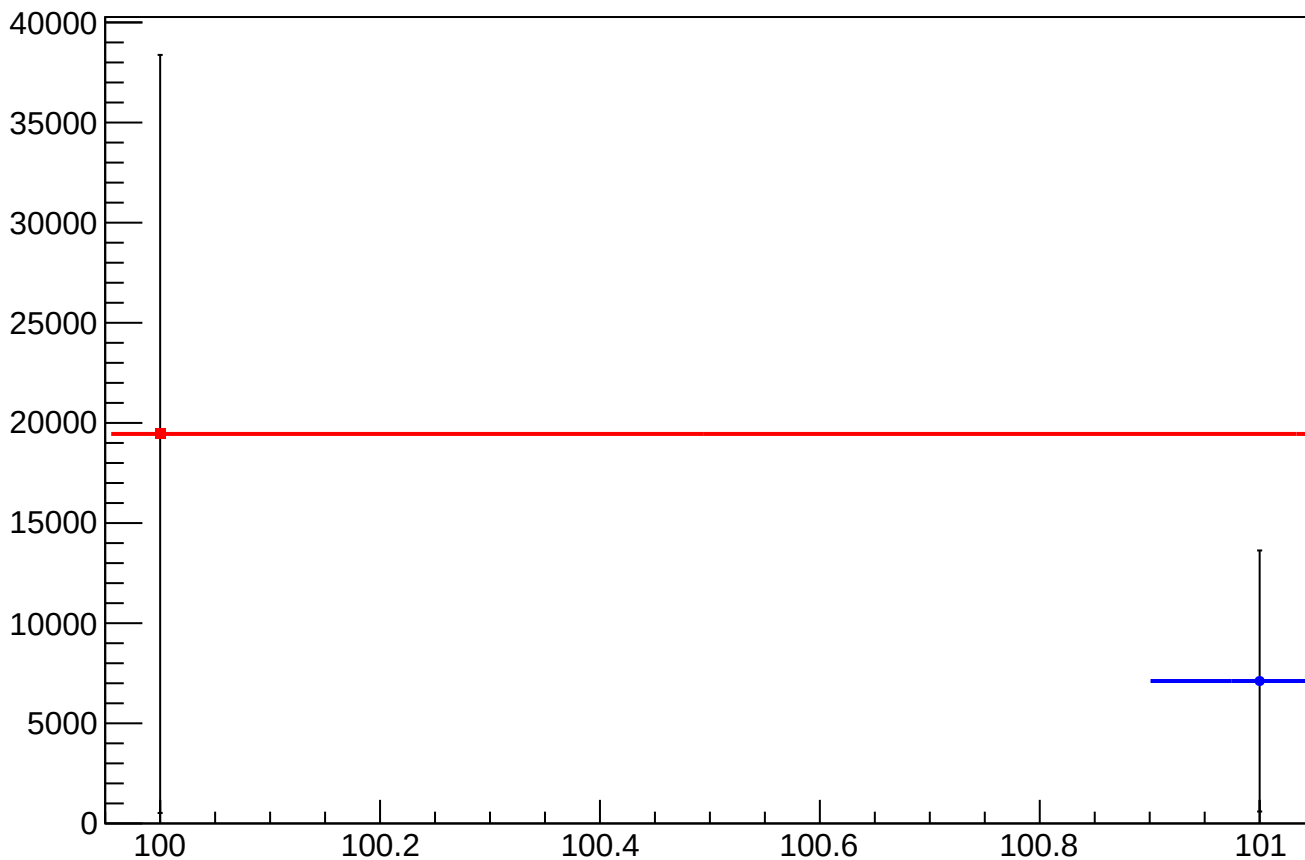
Right: 4209.599 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1

In: 4203.764 $\pm$ 3.674  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4209.599 $\pm$ 3.491  $\chi^2$ /NDF: 26.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 7113.572+/-6517.946  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 19450.627+/-18926.075  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

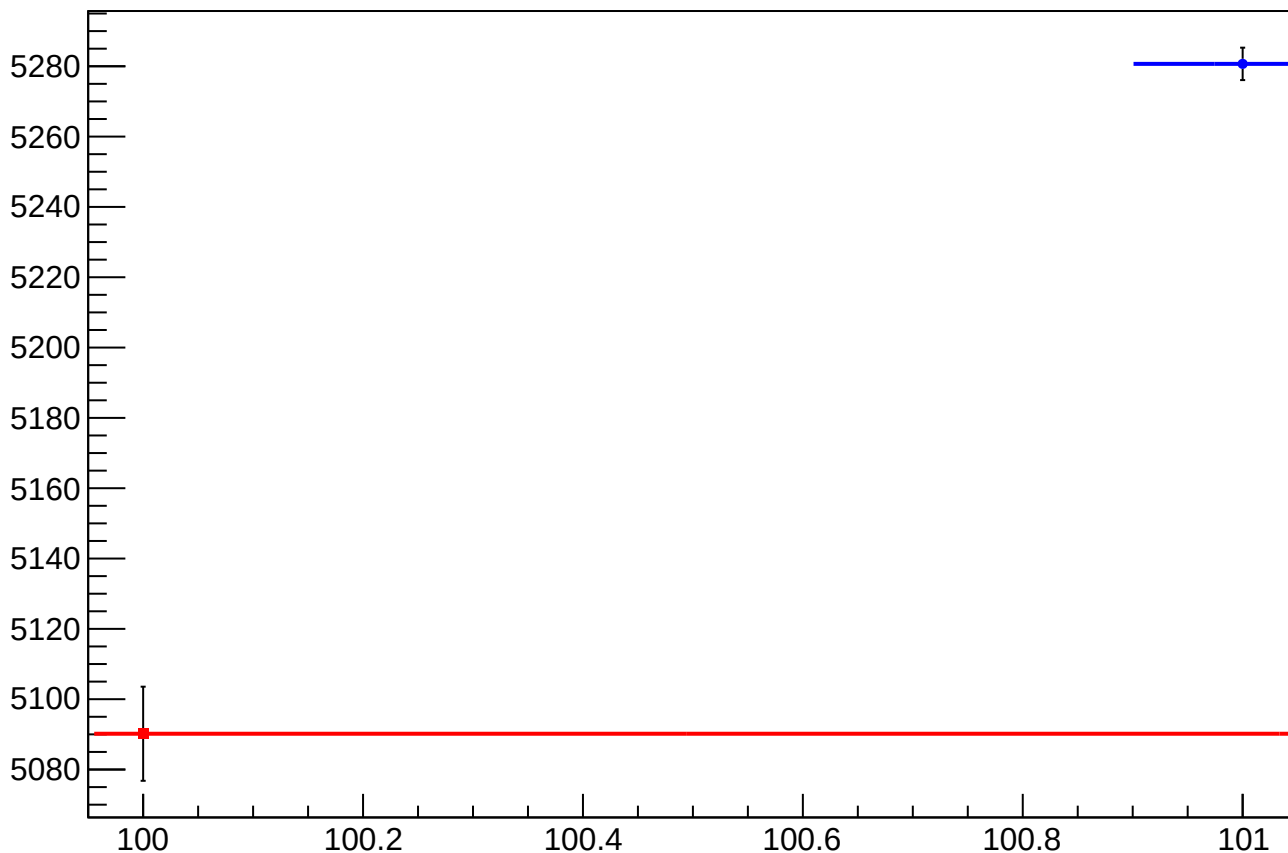
Right: 8421.656+/-6162.721  $\chi^2/\text{NDF}$ : 0.4/1

In: 7113.572+/-6517.946  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 8421.656+/-6162.721  $\chi^2/\text{NDF}$ : 0.4/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 5280.679+/-4.609  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5090.176+/-13.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

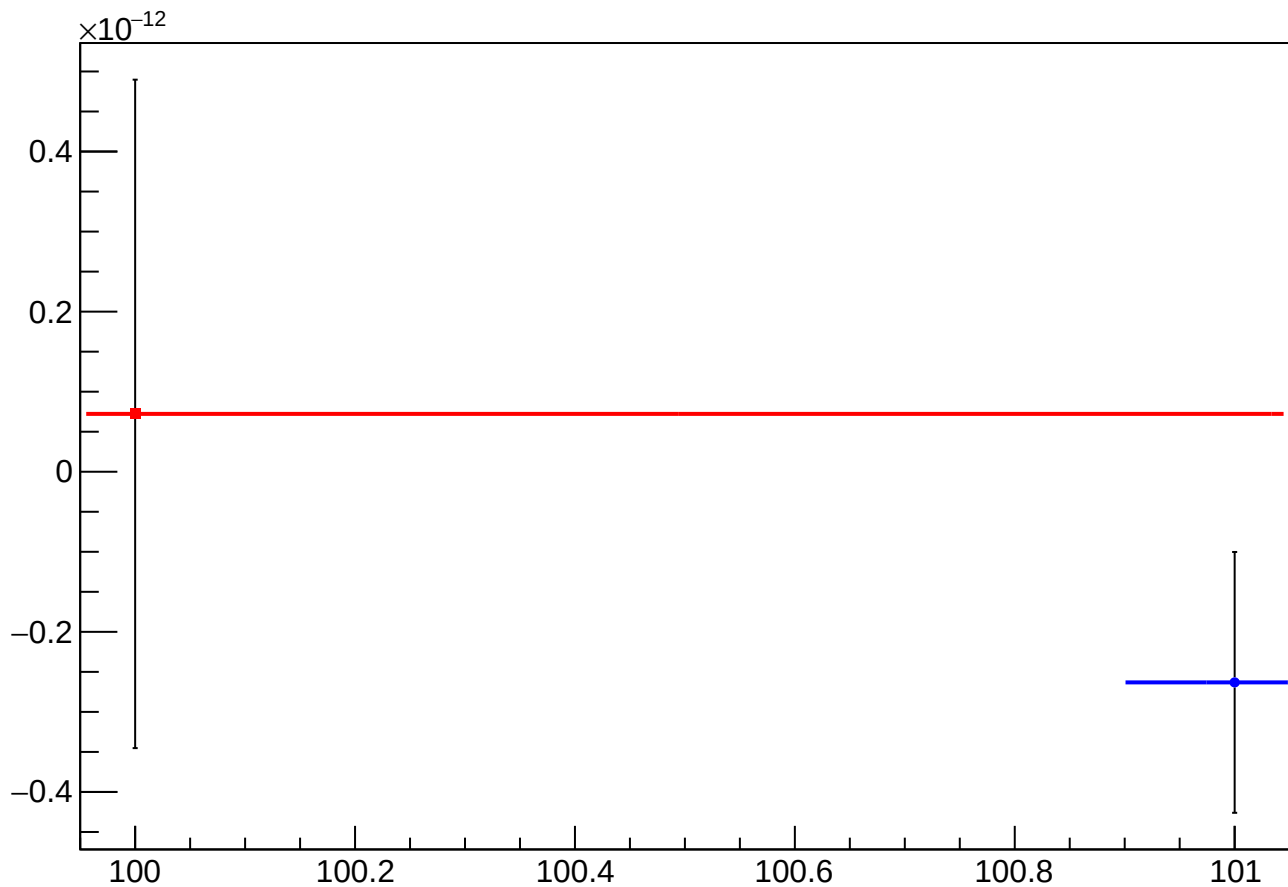
Right: 5260.480+/-4.358  $\chi^2/\text{NDF}$ : 181.1/1

In: 5280.679+/-4.609  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5260.480+/-4.358  $\chi^2/\text{NDF}$ : 181.1/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

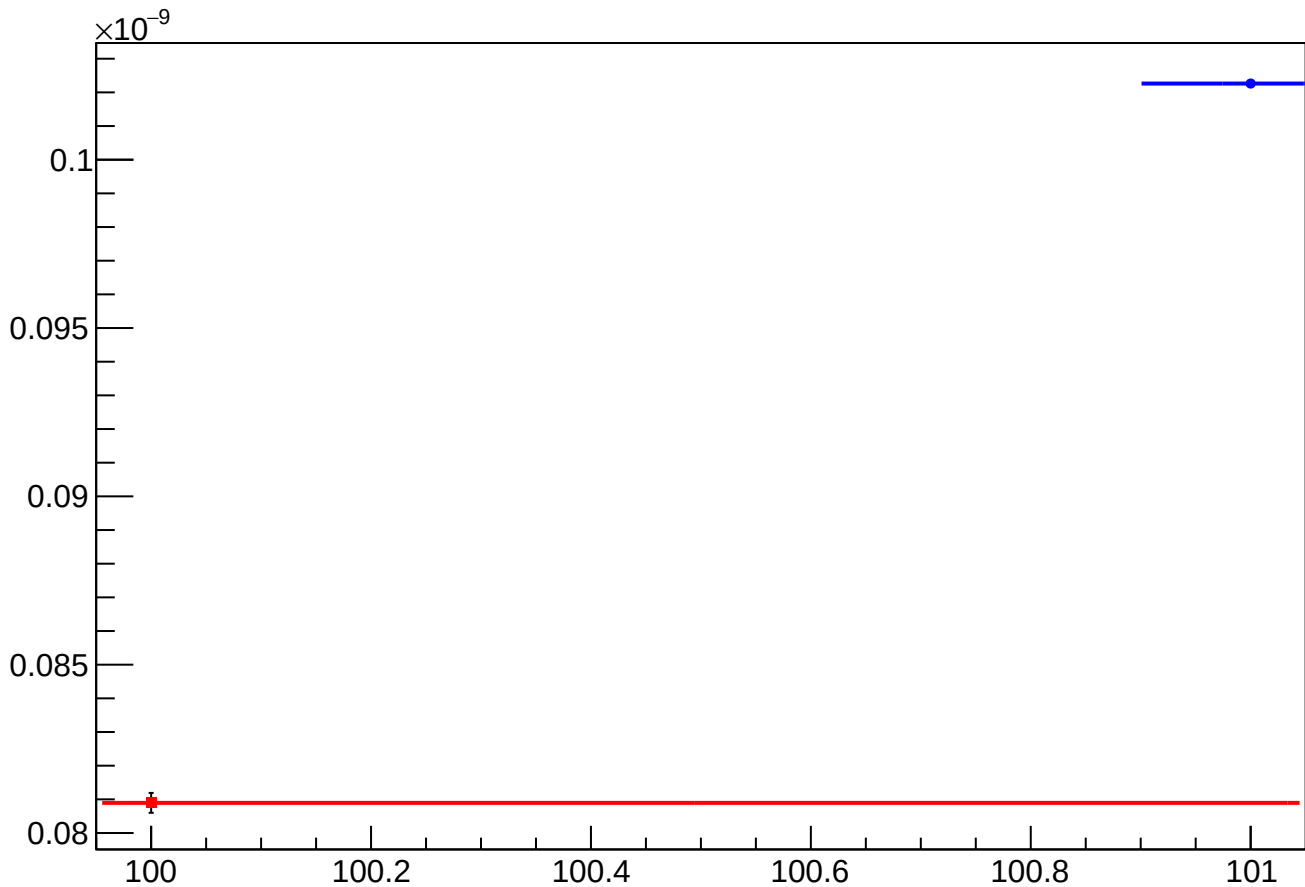
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4546.2/1

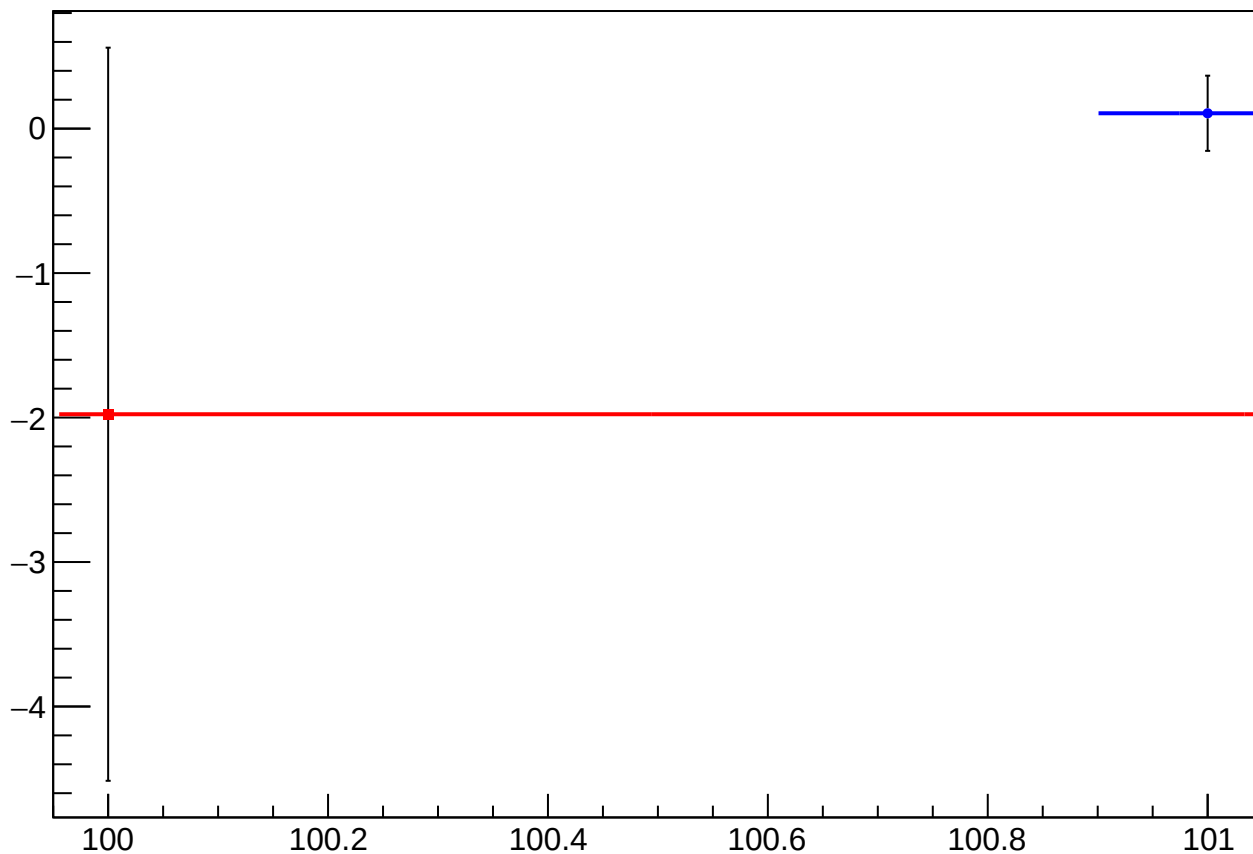
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4546.2/1



asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977+/-2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

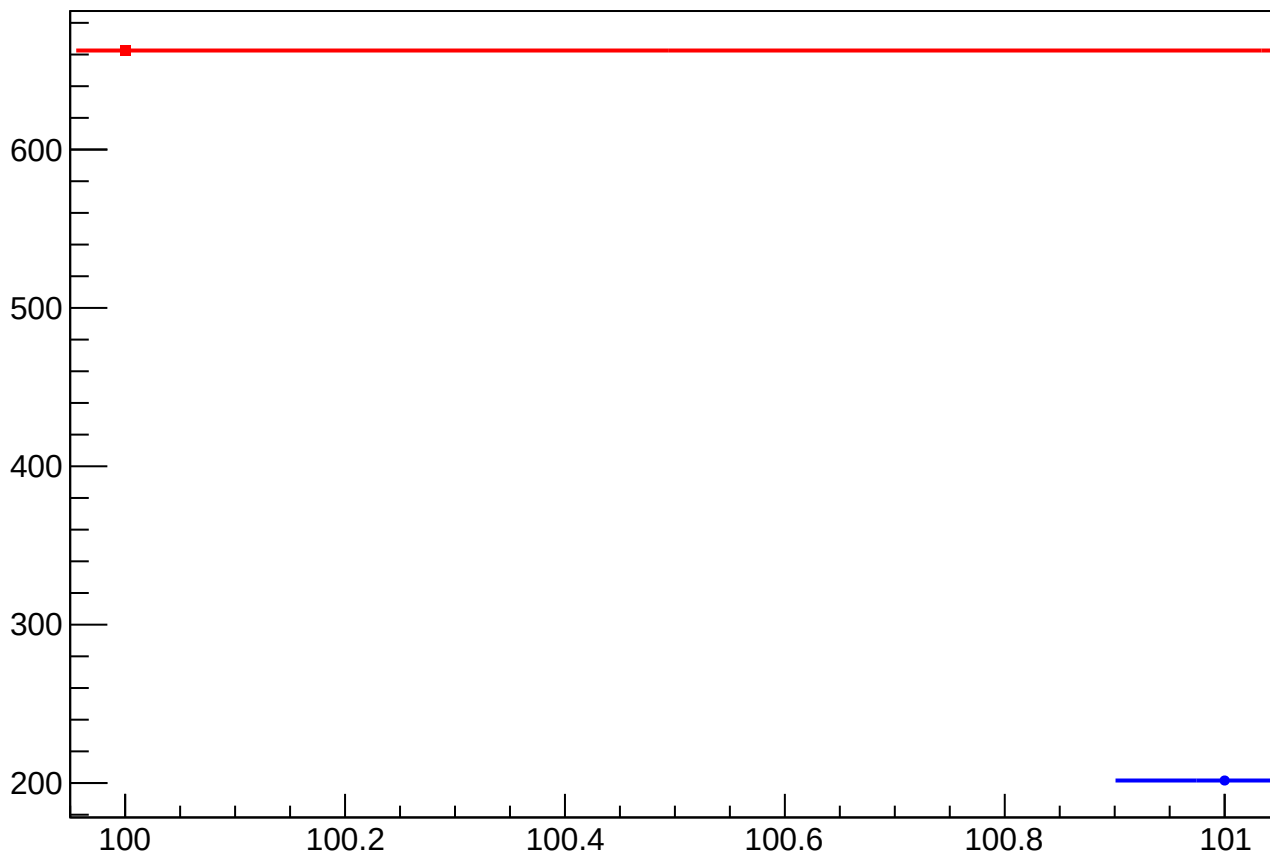
Right: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.597 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 662.534 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

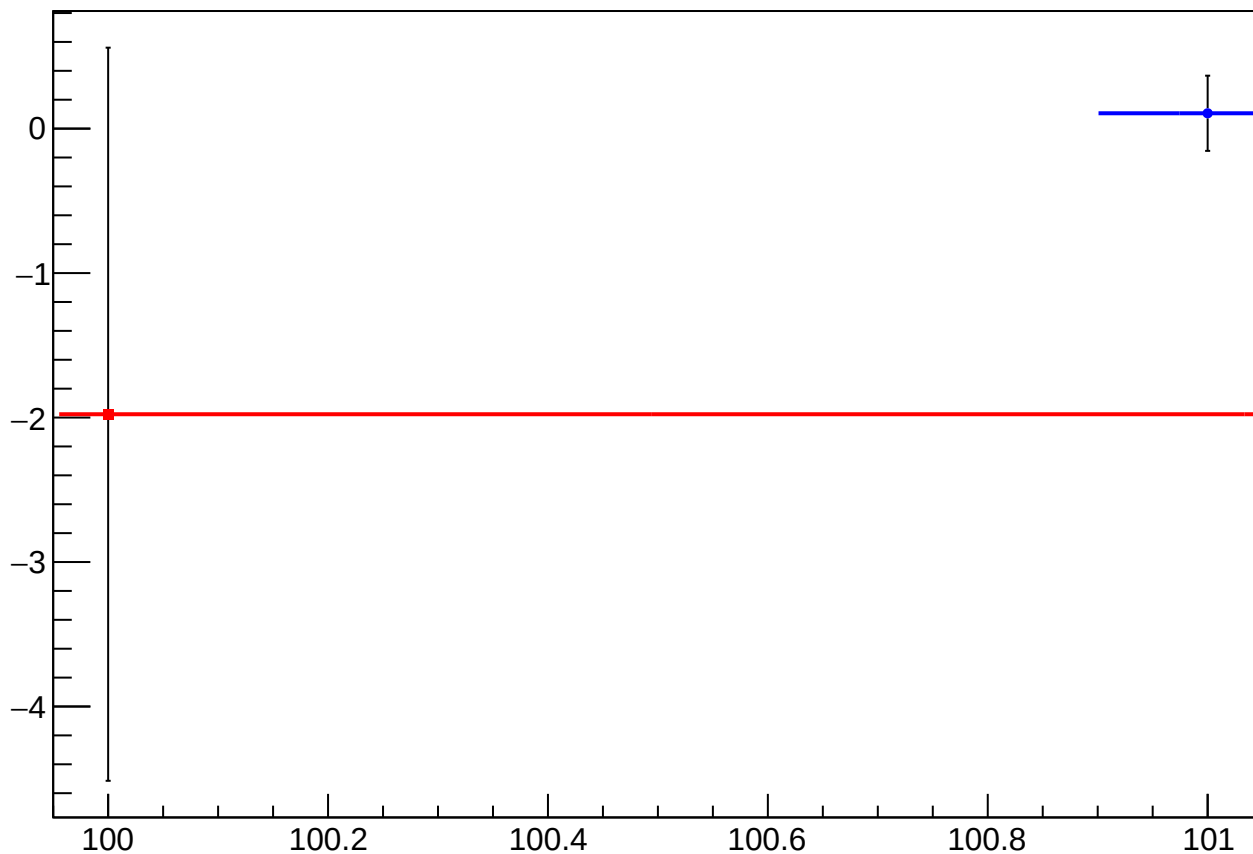
Right: 206.394 $\pm$ 0.183  $\chi^2$ /NDF: 65318.6/1

In: 201.597 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.394 $\pm$ 0.183  $\chi^2$ /NDF: 65318.6/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977+/-2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

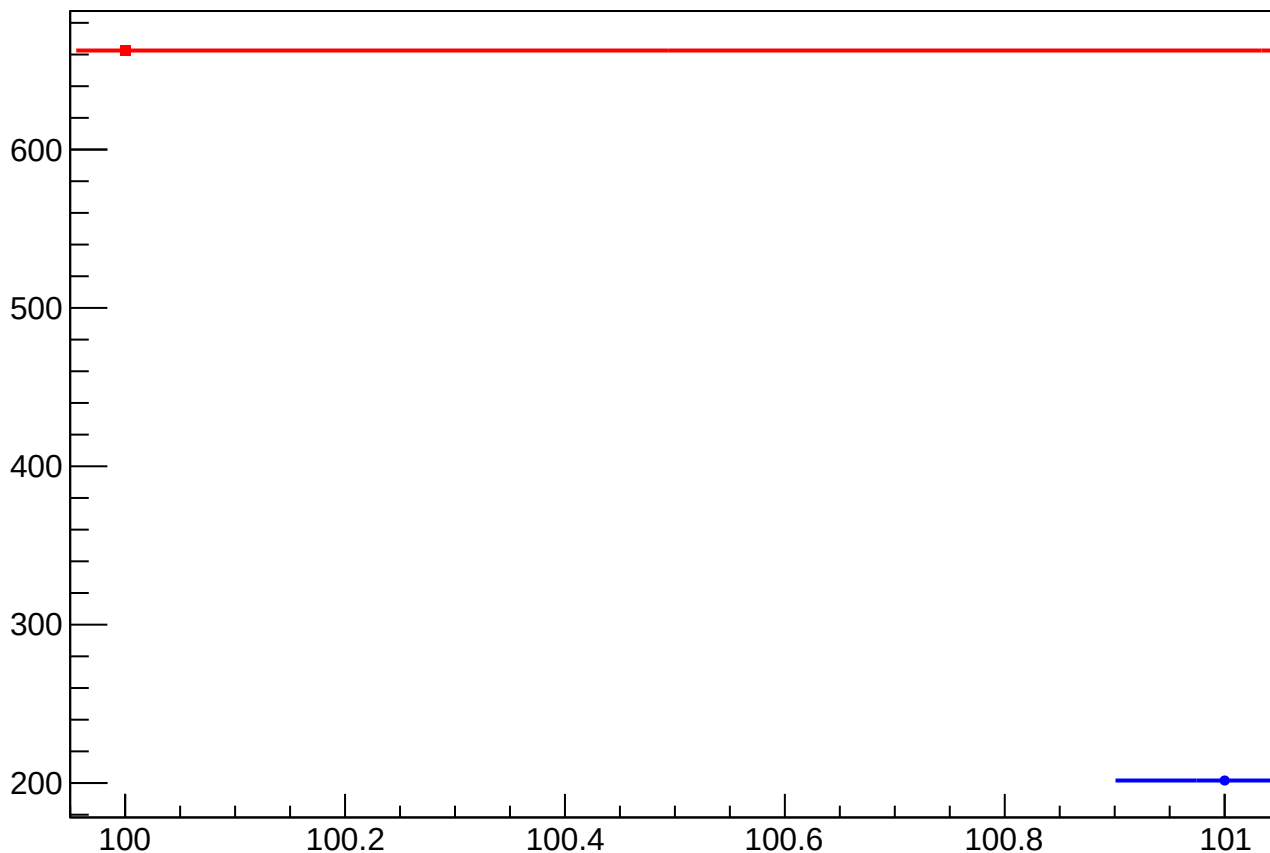
Right: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.084+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.597 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 662.534 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

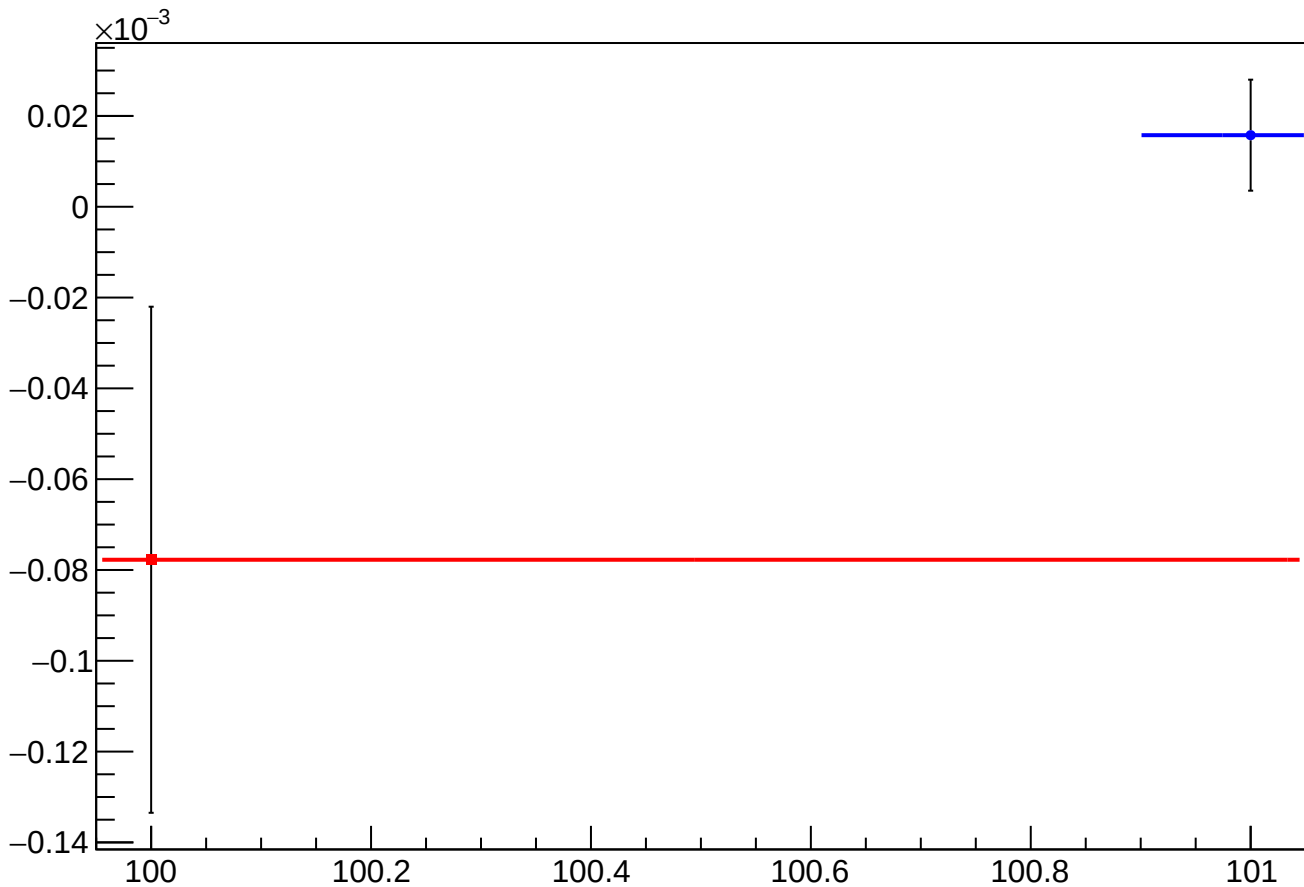
Right: 206.394 $\pm$ 0.183  $\chi^2$ /NDF: 65318.6/1

In: 201.597 $\pm$ 0.184  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 206.394 $\pm$ 0.183  $\chi^2$ /NDF: 65318.6/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

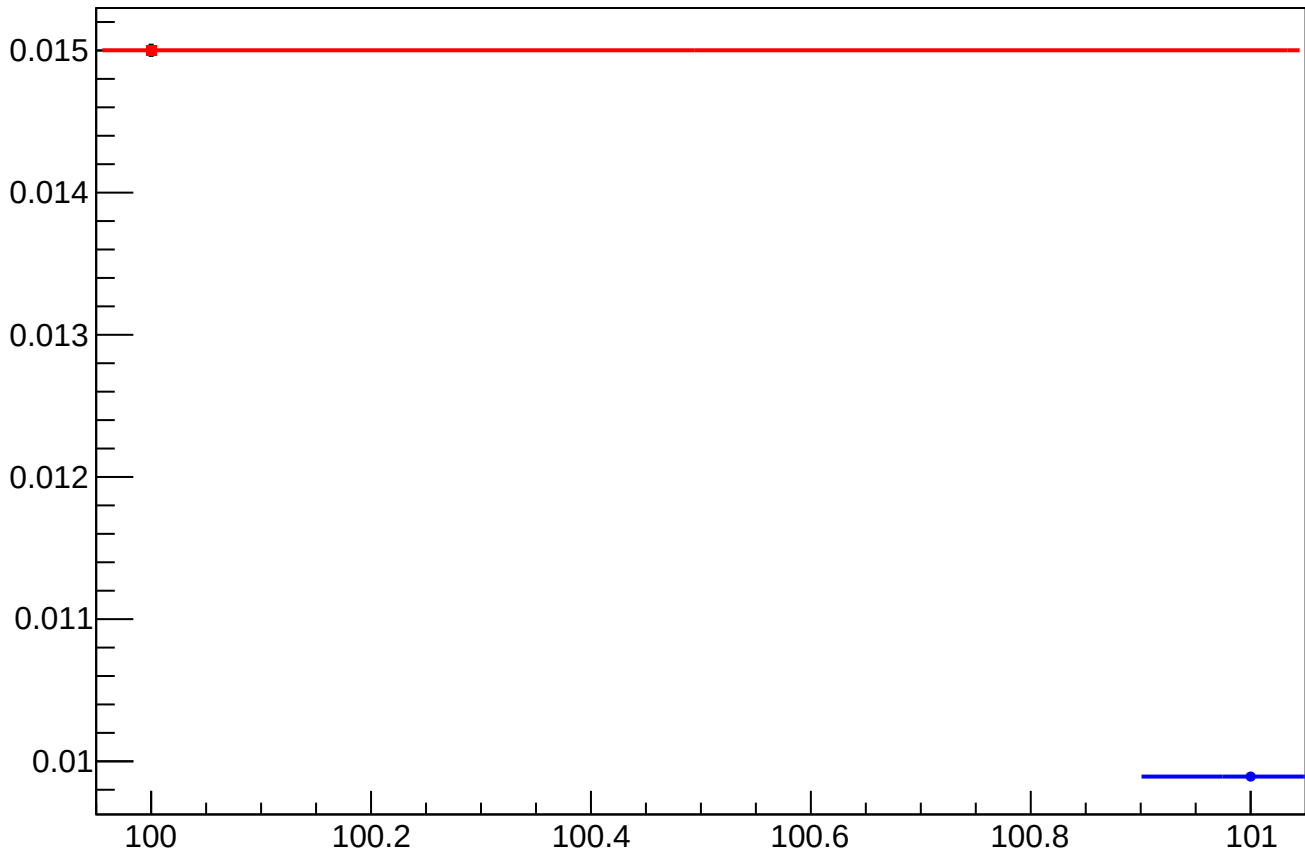
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.7/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

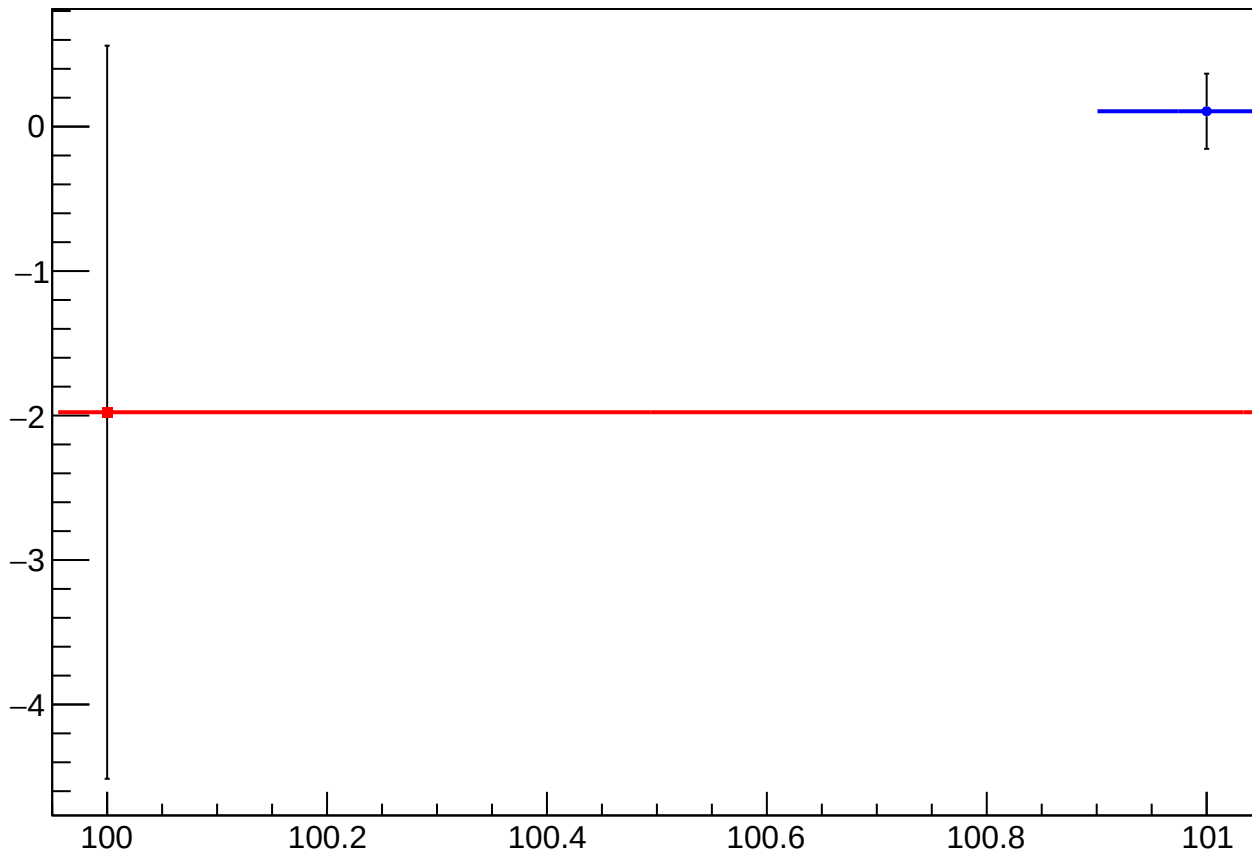
Right: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 16032.0/1

In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 16032.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977+/-2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

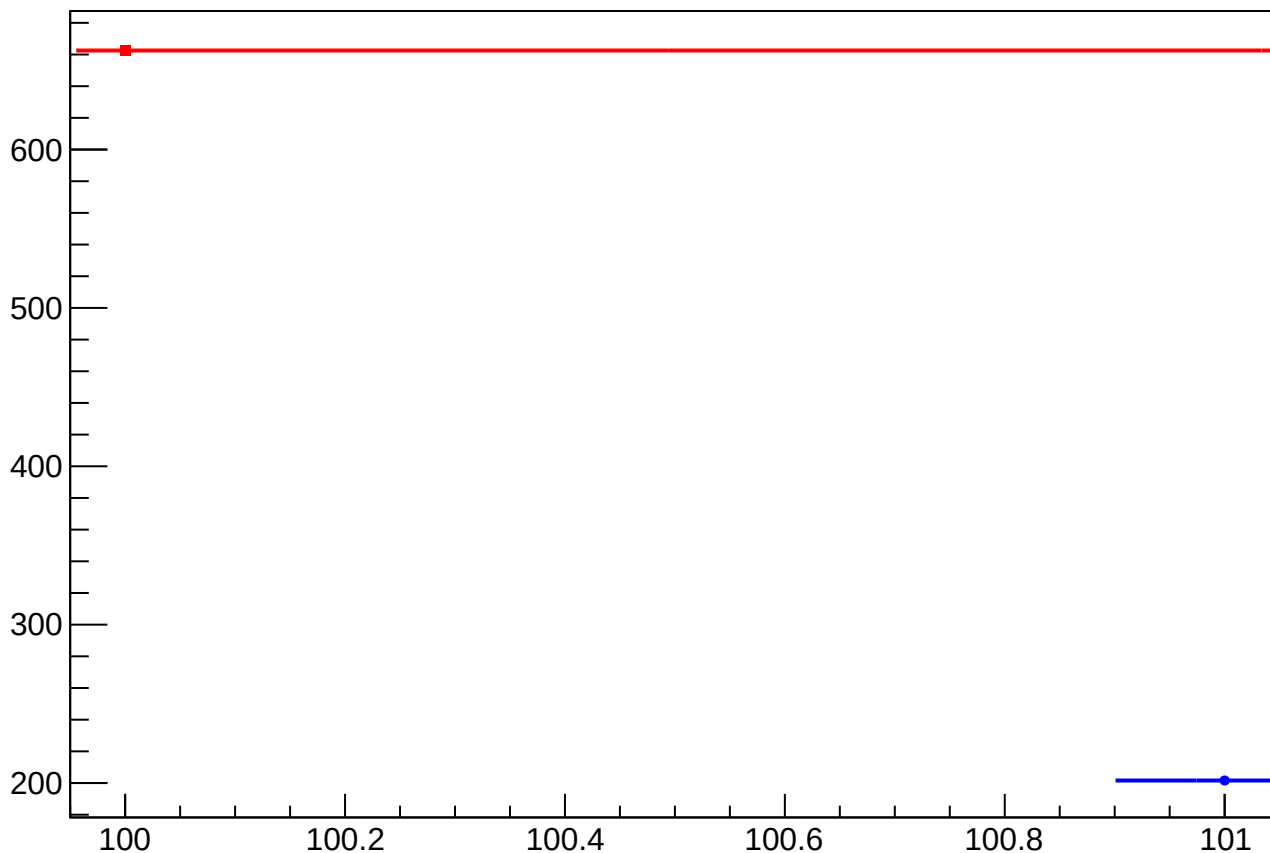
Right: 0.085+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106+/-0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.085+/-0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 662.531 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

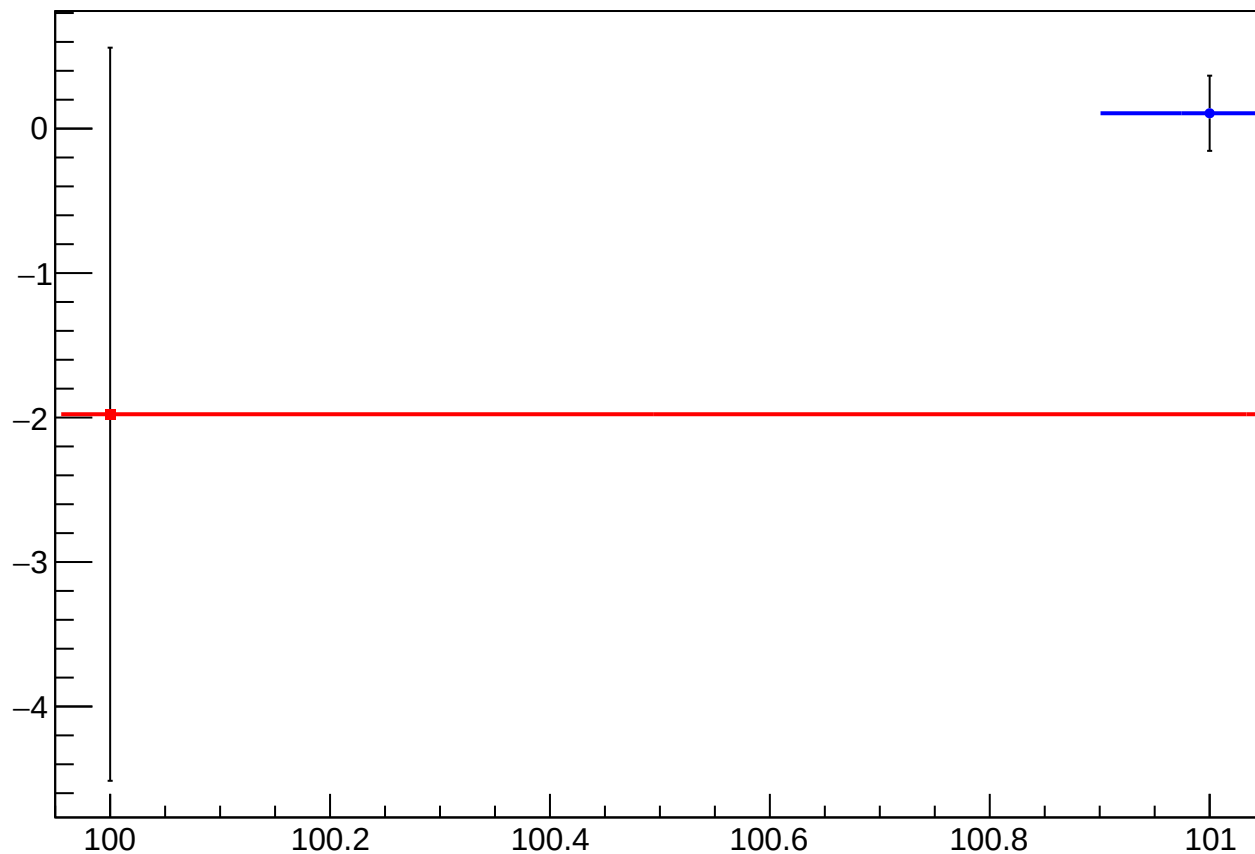
In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1



asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.106 $\pm$ 0.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.977 $\pm$ 2.537  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

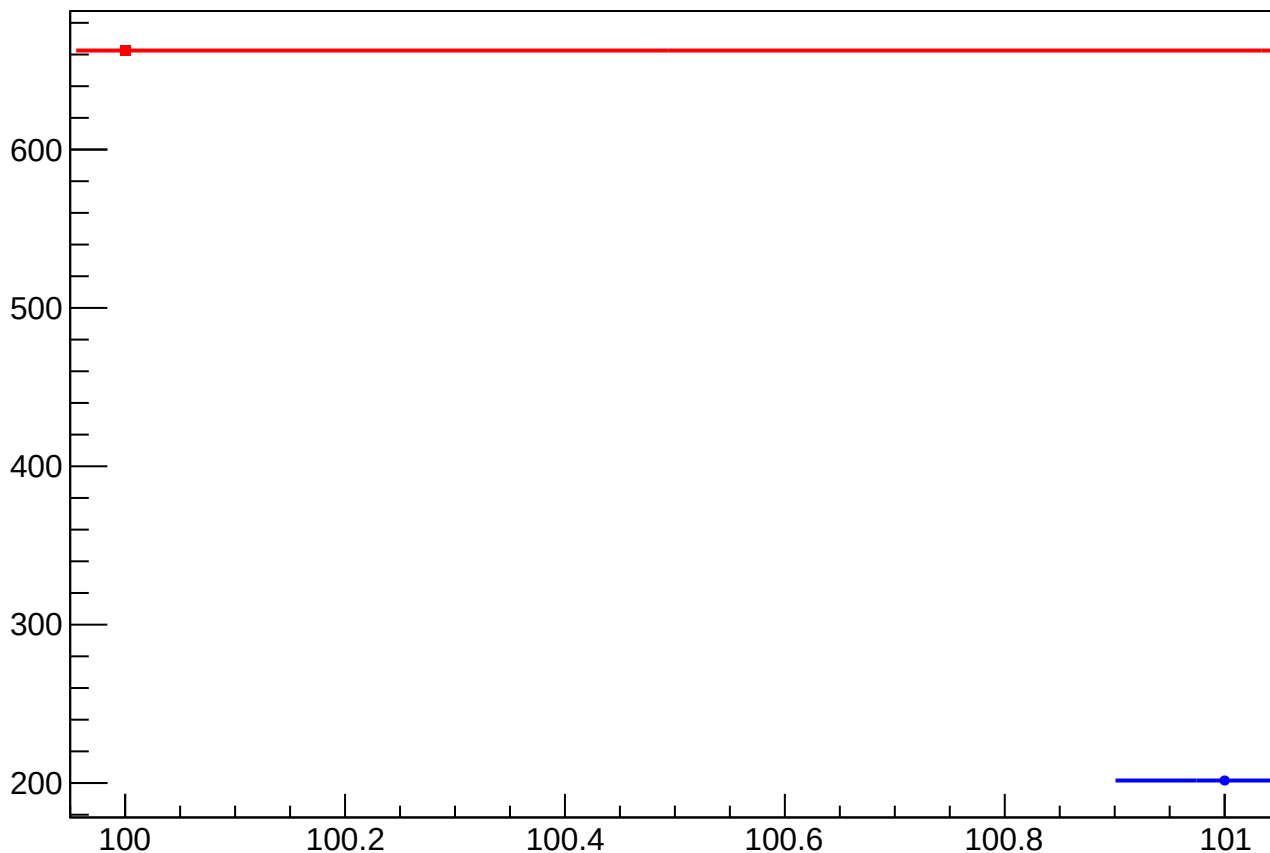
Right: 0.085 $\pm$ 0.259  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.106 $\pm$ 0.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.085 $\pm$ 0.259  $\chi^2/\text{NDF}$ : 0.7/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 662.531 $\pm$ 1.794  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

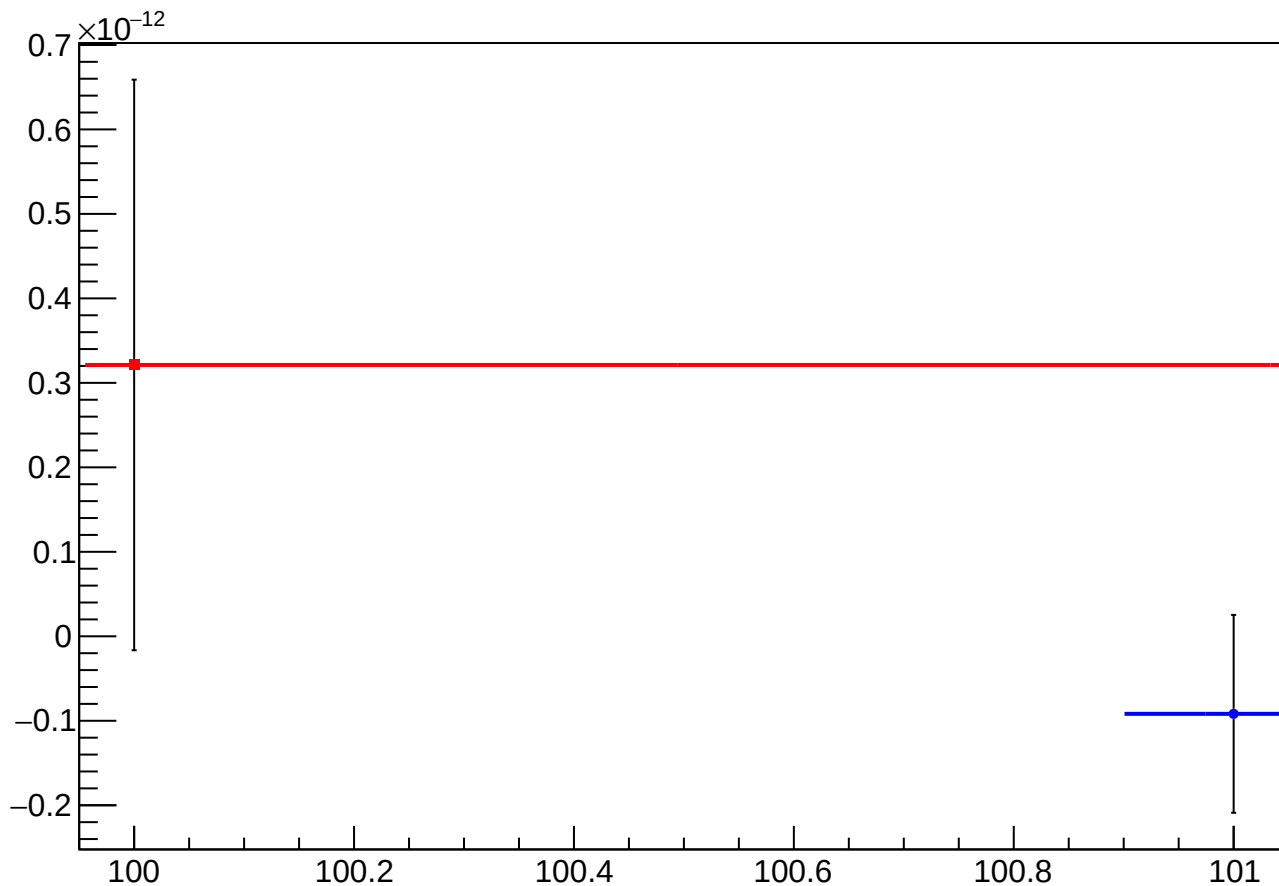
Right: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

In: 201.593 $\pm$ 0.184  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 206.391 $\pm$ 0.183  $\chi^2$ /NDF: 65319.4/1

asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

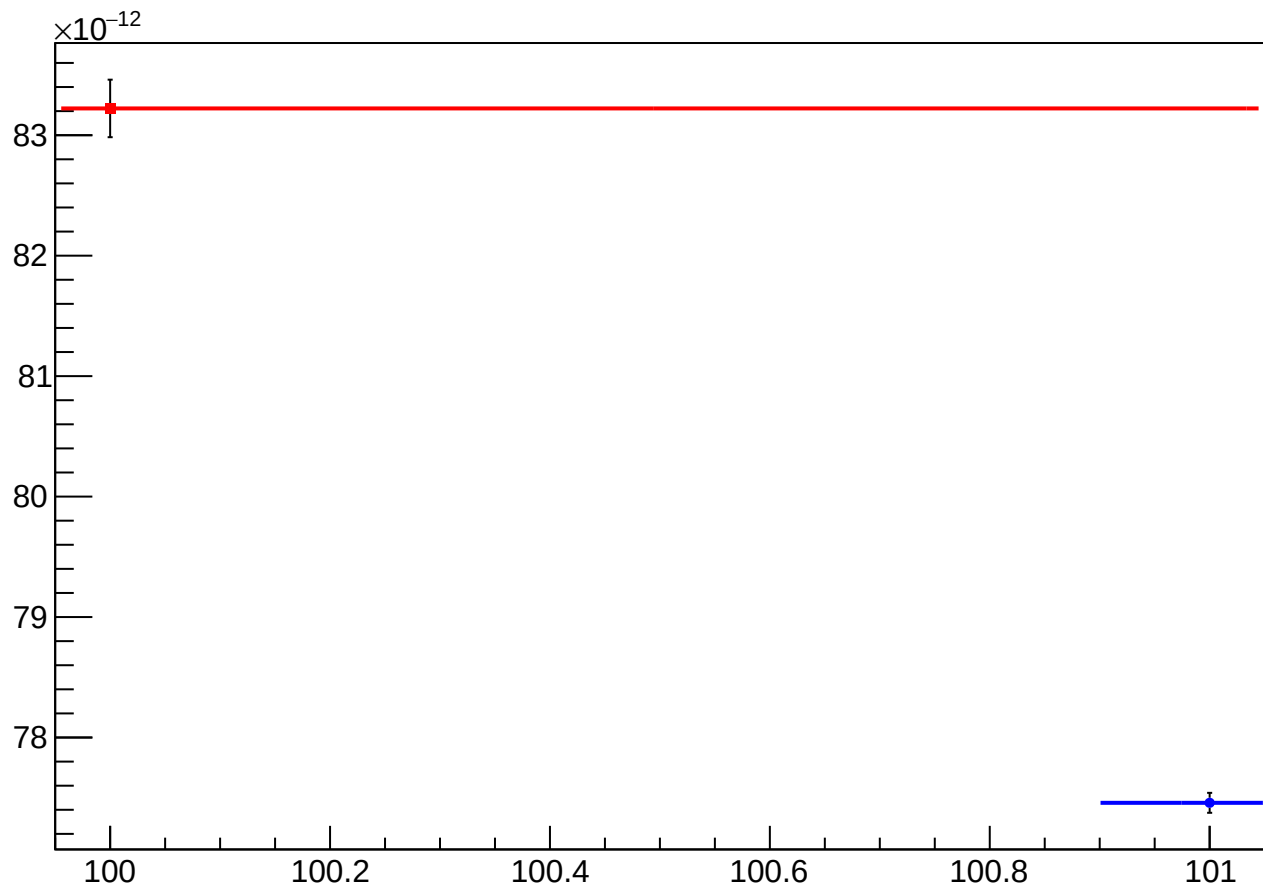
Right: -0.000+/-0.000     $\chi^2/\text{NDF}$ : 1.3/1

In: -0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: -0.000+/-0.000     $\chi^2$ /NDF: 1.3/1

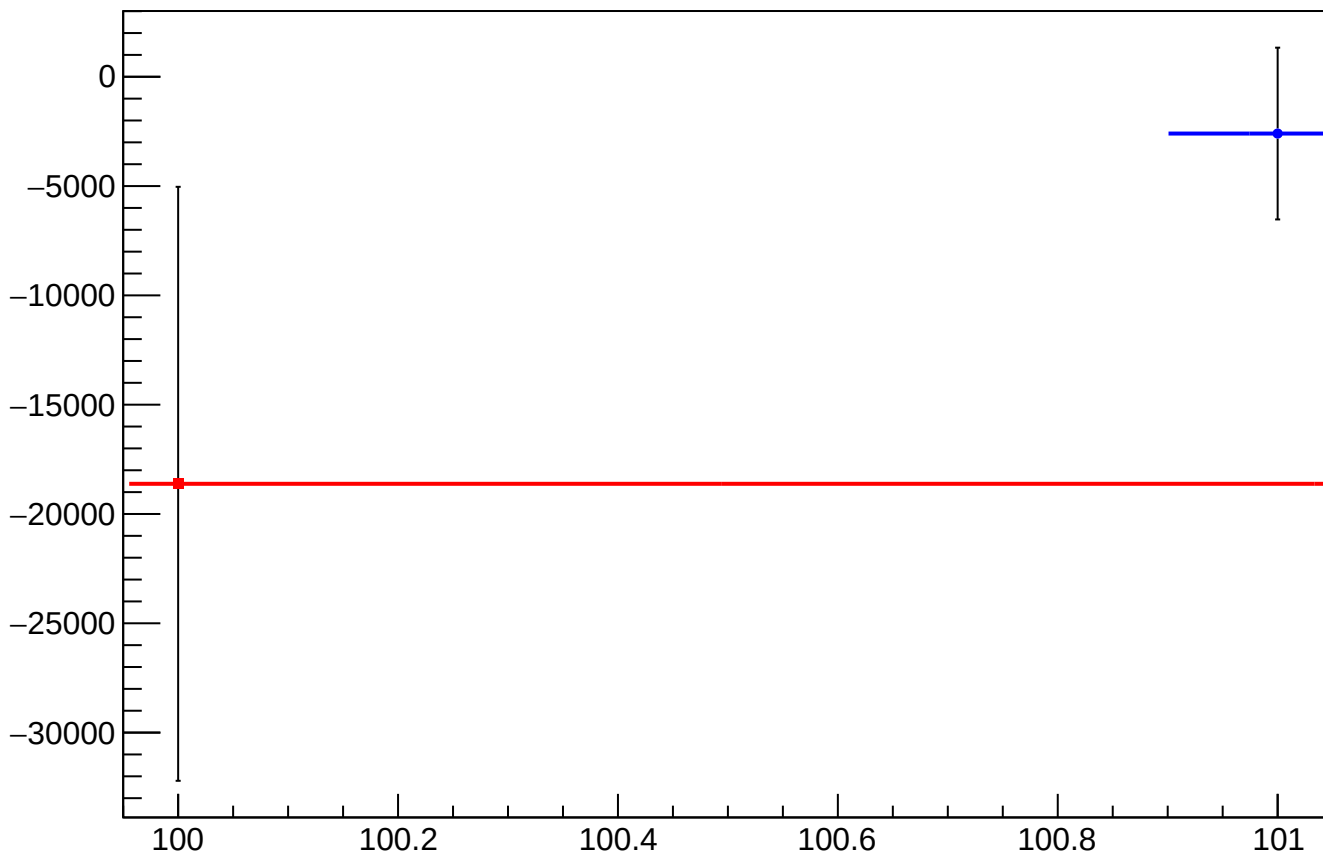
asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 520.2/1  
 In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 520.2/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2597.701+/-3928.663  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18619.671+/-13585.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

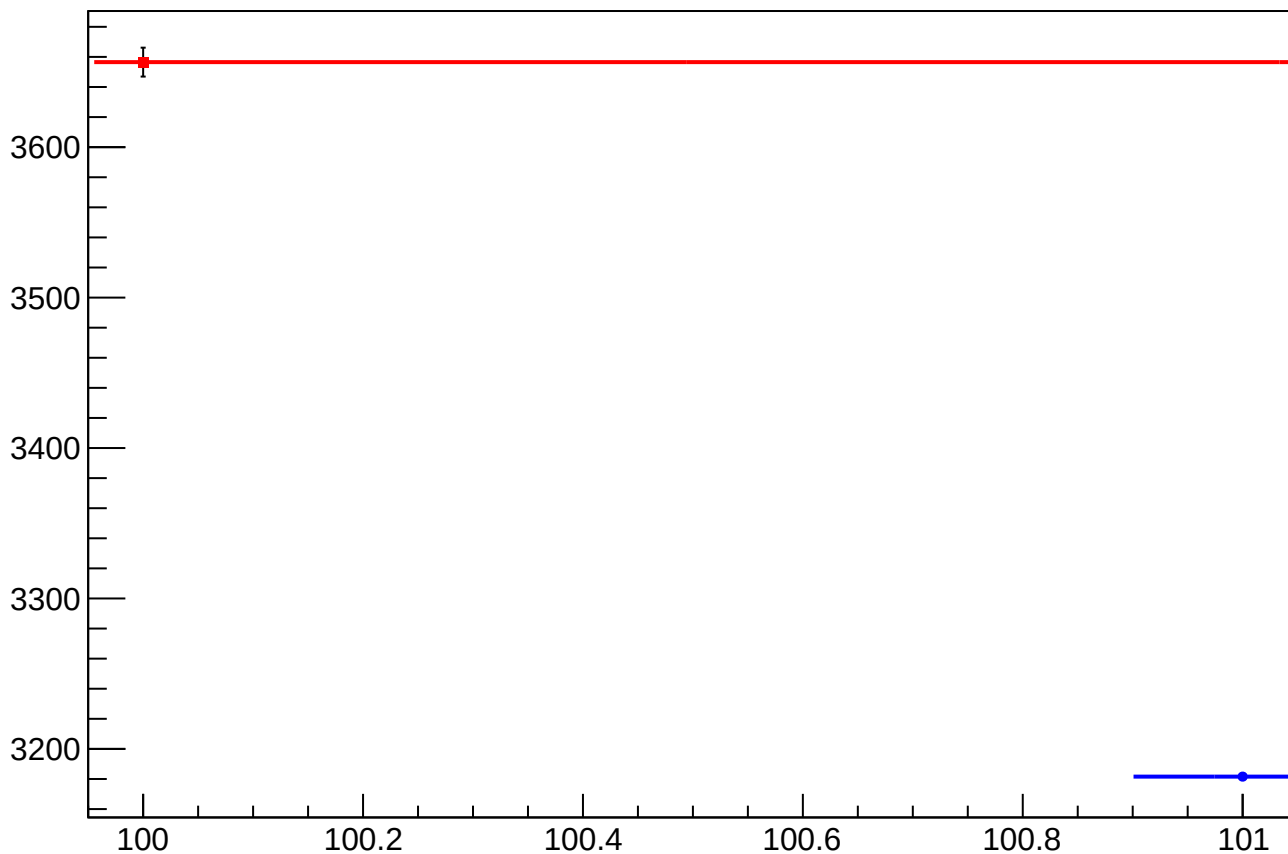
Right: -3834.167+/-3774.026  $\chi^2/\text{NDF}$ : 1.3/1

In: -2597.701+/-3928.663  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3834.167+/-3774.026  $\chi^2/\text{NDF}$ : 1.3/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3181.574±/-2.778  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3656.534±/-9.606  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

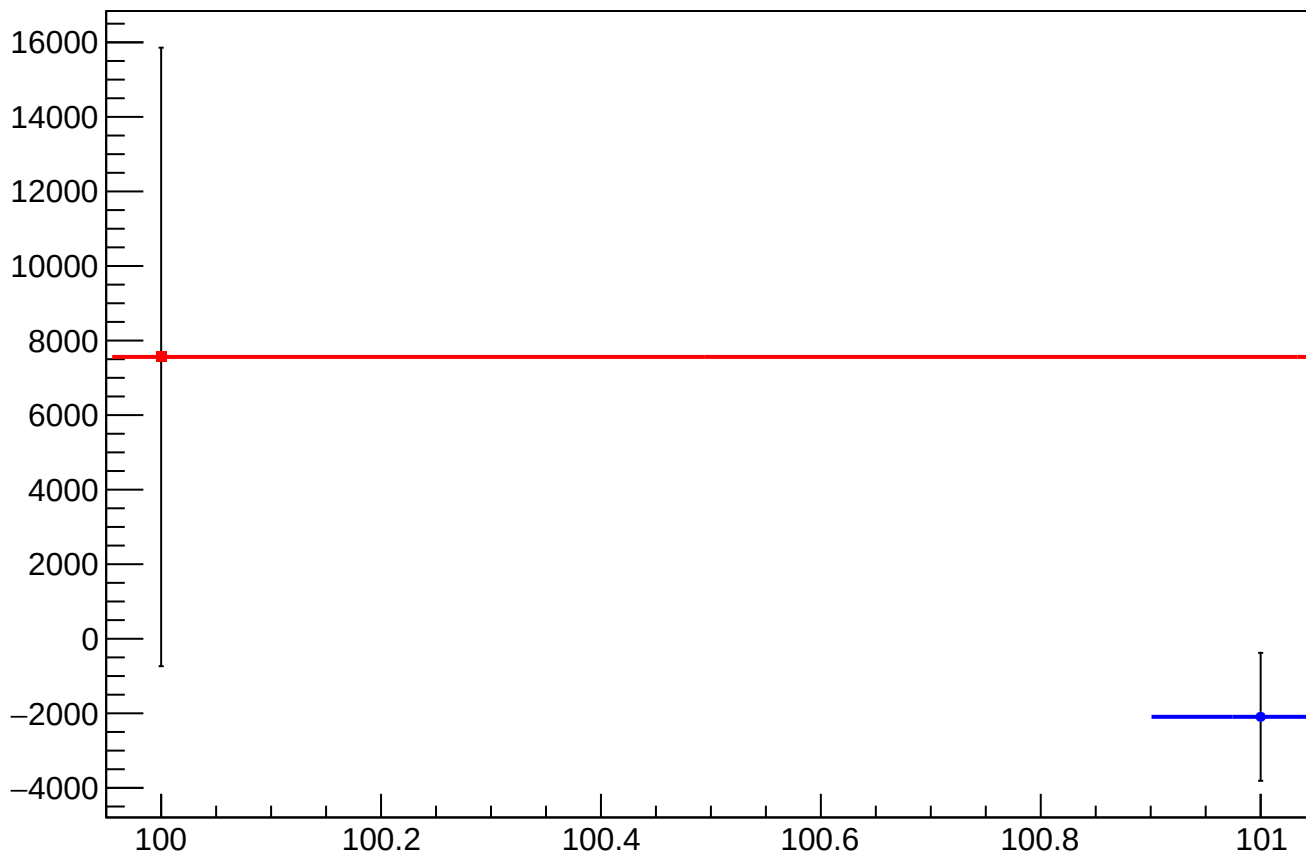
Right: 3218.228±/-2.669  $\chi^2$ /NDF: 2255.9/1

In: 3181.574±/-2.778  $\chi^2$ /NDF: 0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

All: 3218.228±/-2.669  $\chi^2$ /NDF: 2255.9/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -2093.988+/-1716.175  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7560.736+/-8296.075  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

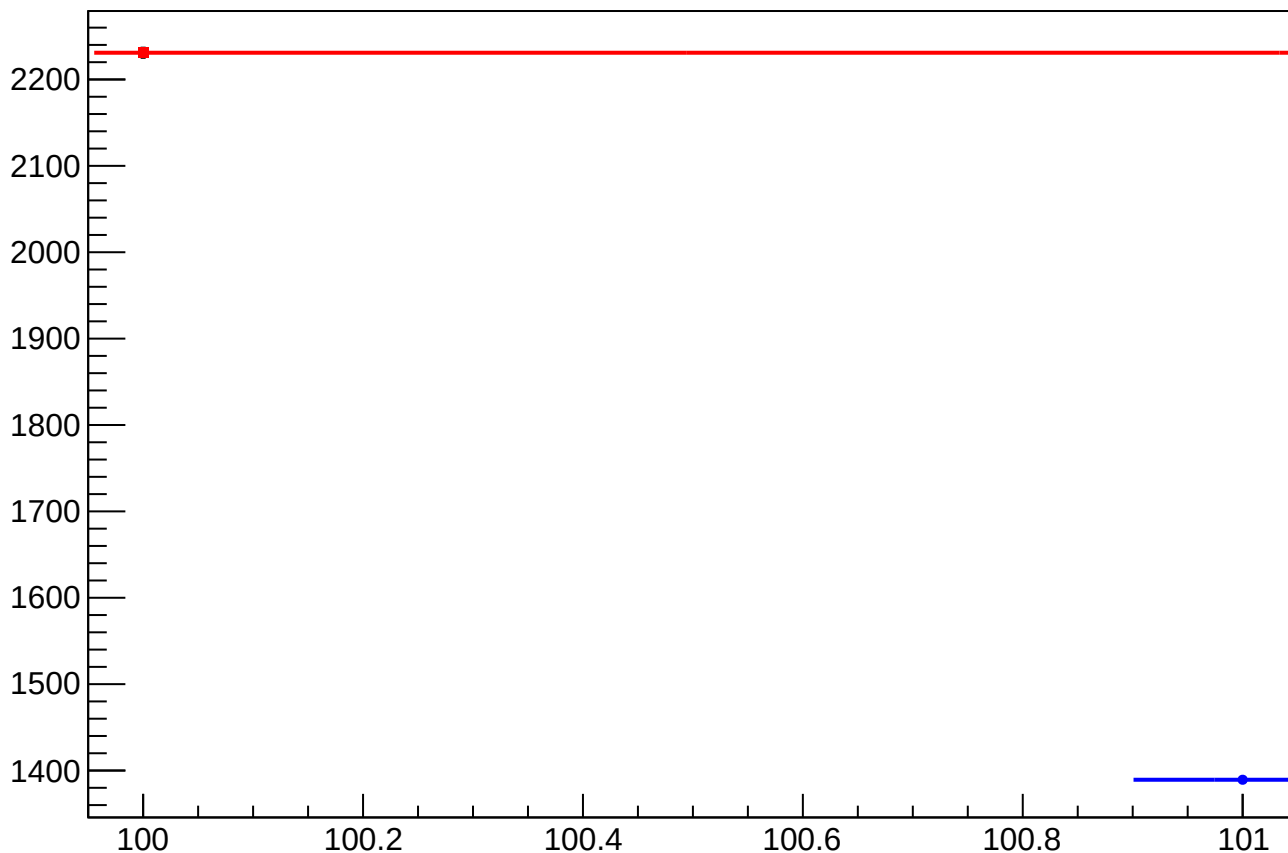
Right: -1697.784+/-1680.592  $\chi^2/\text{NDF}$ : 1.3/1

In: -2093.988+/-1716.175  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1697.784+/-1680.592  $\chi^2/\text{NDF}$ : 1.3/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1389.328 $\pm$ 1.214  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2230.944 $\pm$ 5.866  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1423.866 $\pm$ 1.188  $\chi^2$ /NDF: 19738.5/1

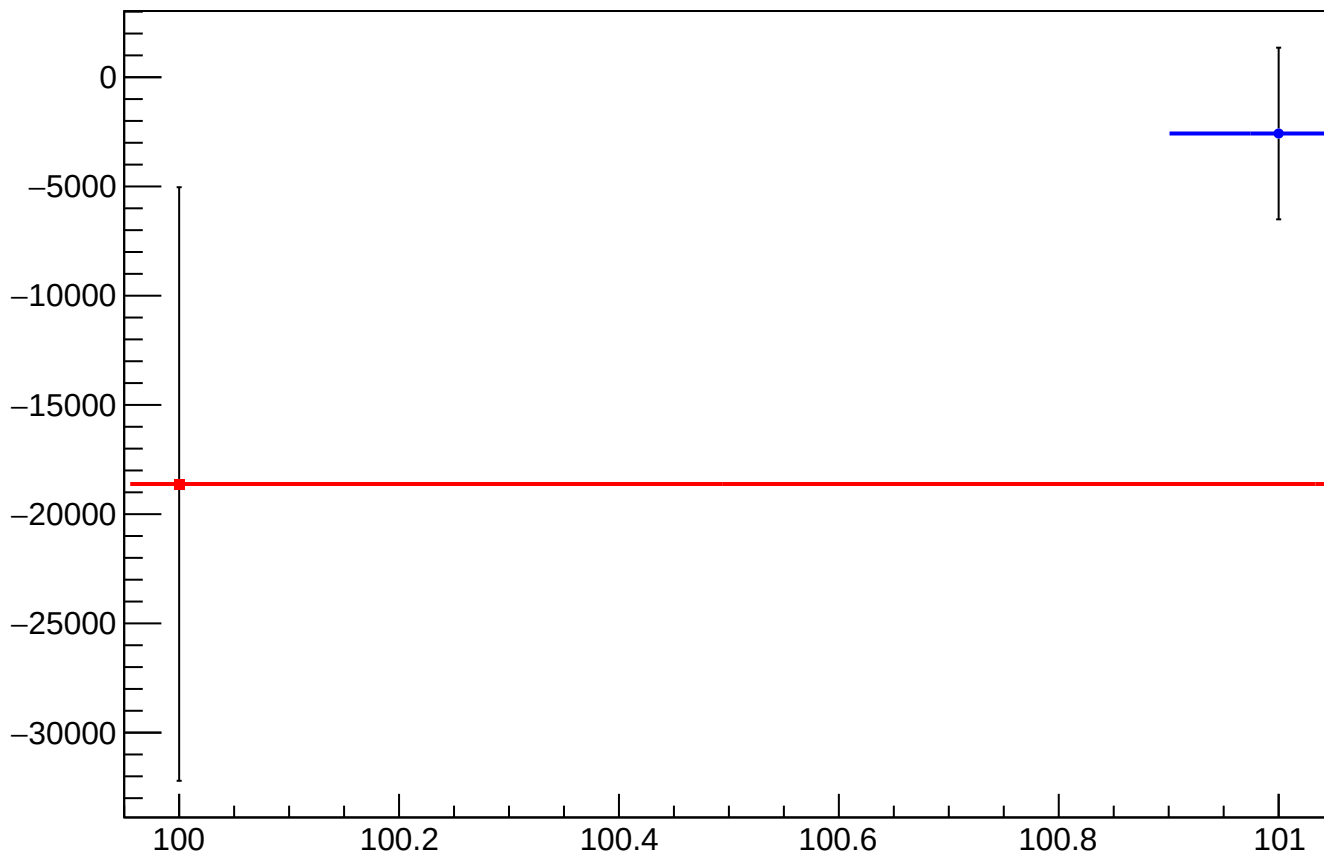
In: 1389.328 $\pm$ 1.214  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1423.866 $\pm$ 1.188  $\chi^2$ /NDF: 19738.5/1



cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2575.603+/-3928.683  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18619.608+/-13585.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

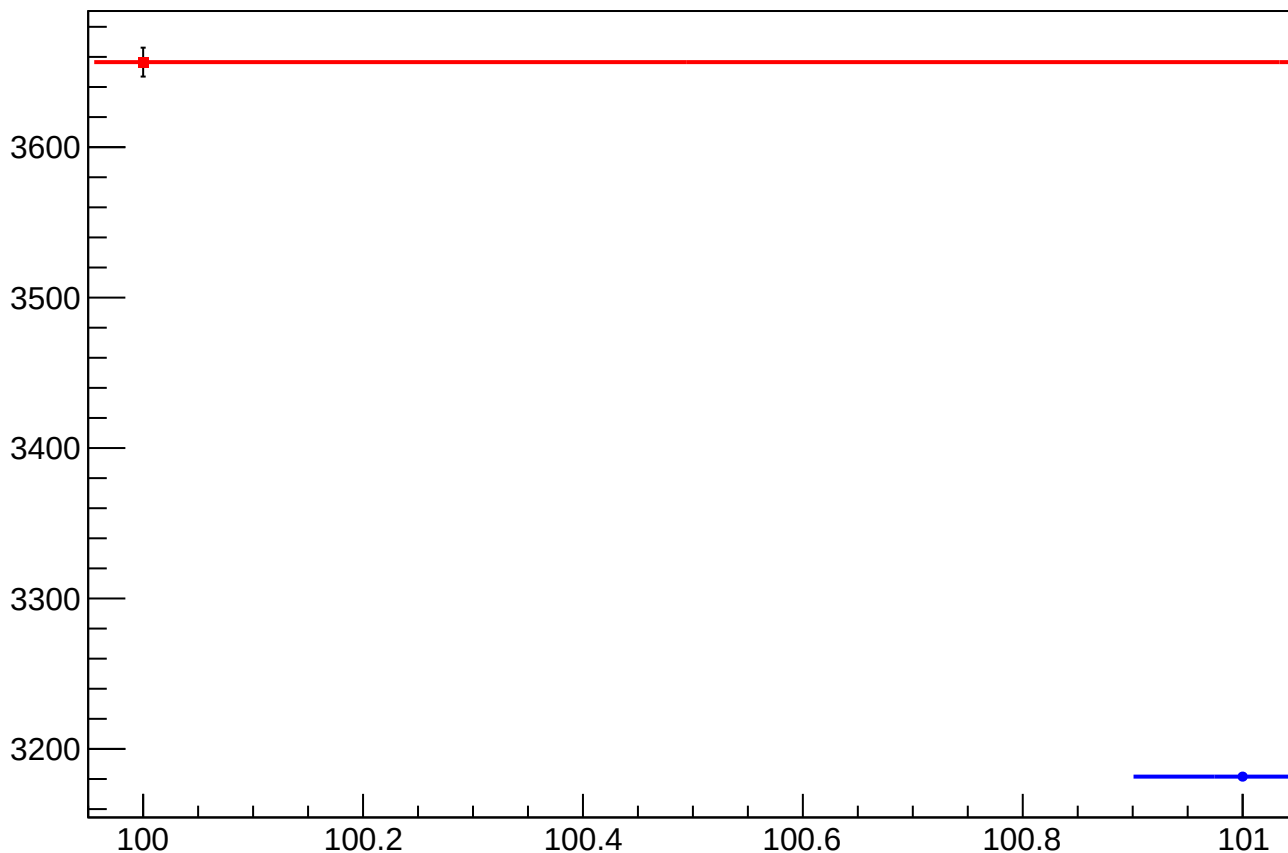
Right: -3813.780+/-3774.044  $\chi^2/\text{NDF}$ : 1.3/1

In: -2575.603+/-3928.683  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3813.780+/-3774.044  $\chi^2/\text{NDF}$ : 1.3/1

cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3181.586 $\pm$ 2.778  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3656.534 $\pm$ 9.606  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

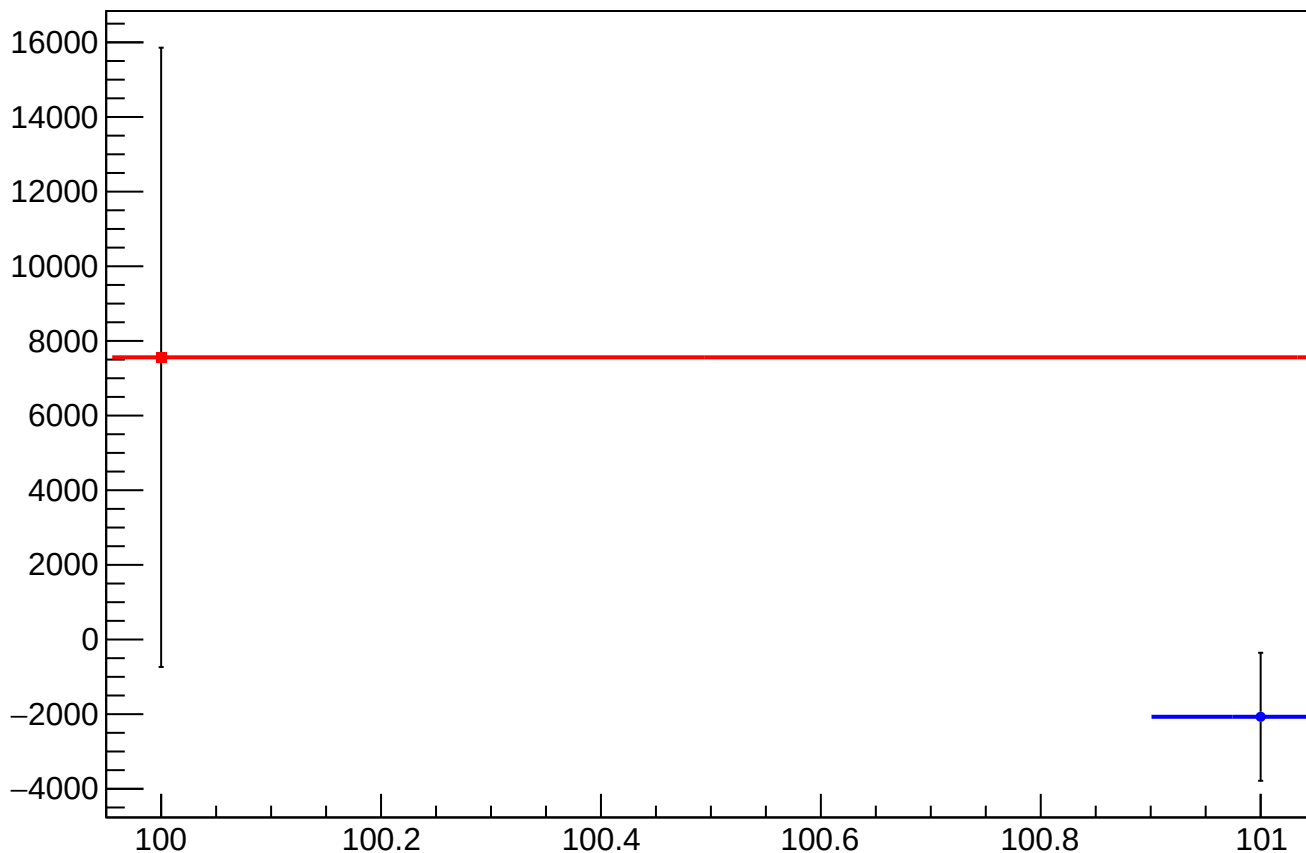
Right: 3218.239 $\pm$ 2.669  $\chi^2$ /NDF: 2255.8/1

In: 3181.586 $\pm$ 2.778  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3218.239 $\pm$ 2.669  $\chi^2$ /NDF: 2255.8/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2070.192+/-1715.004  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7560.796+/-8296.086  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

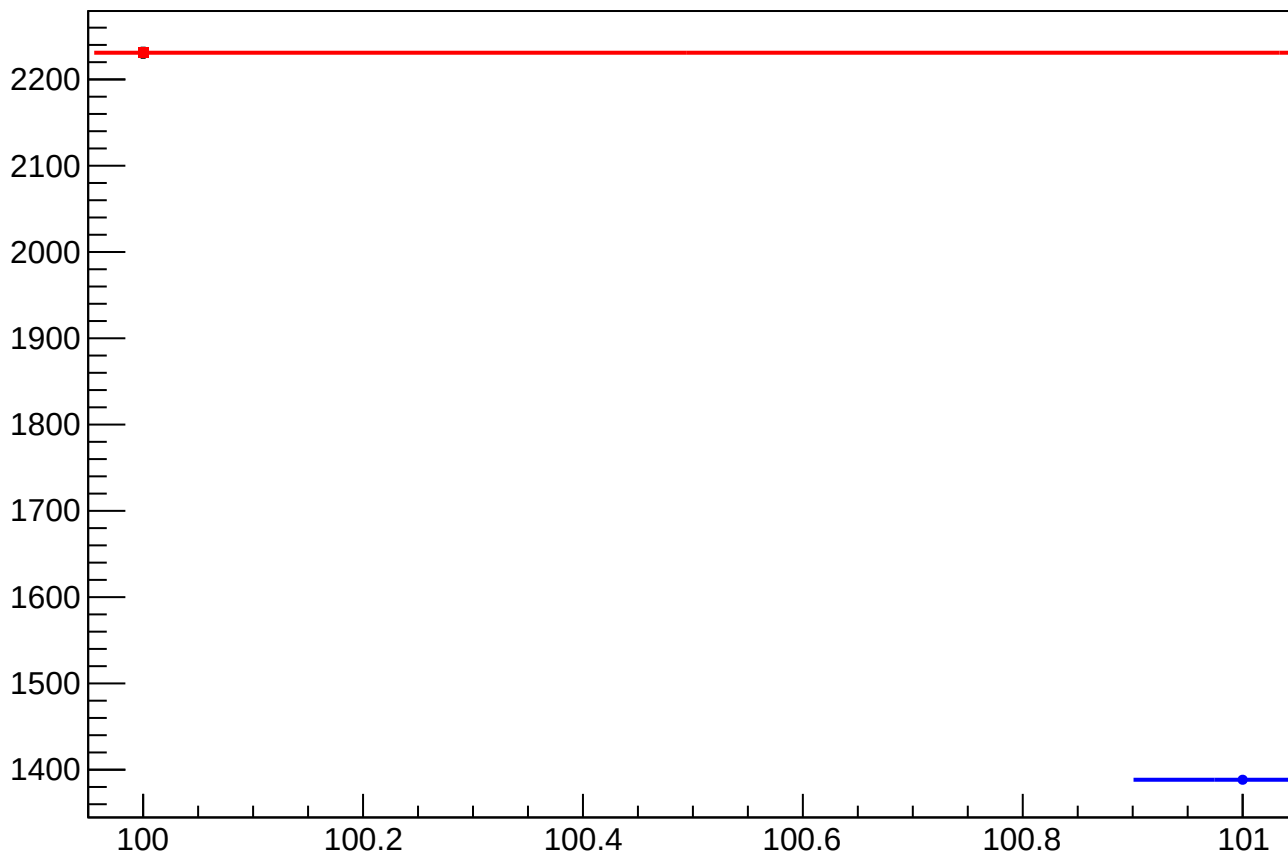
Right: -1675.480+/-1679.493  $\chi^2/\text{NDF}$ : 1.3/1

In: -2070.192+/-1715.004  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1675.480+/-1679.493  $\chi^2/\text{NDF}$ : 1.3/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1388.367 $\pm$ 1.213  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2230.946 $\pm$ 5.866  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

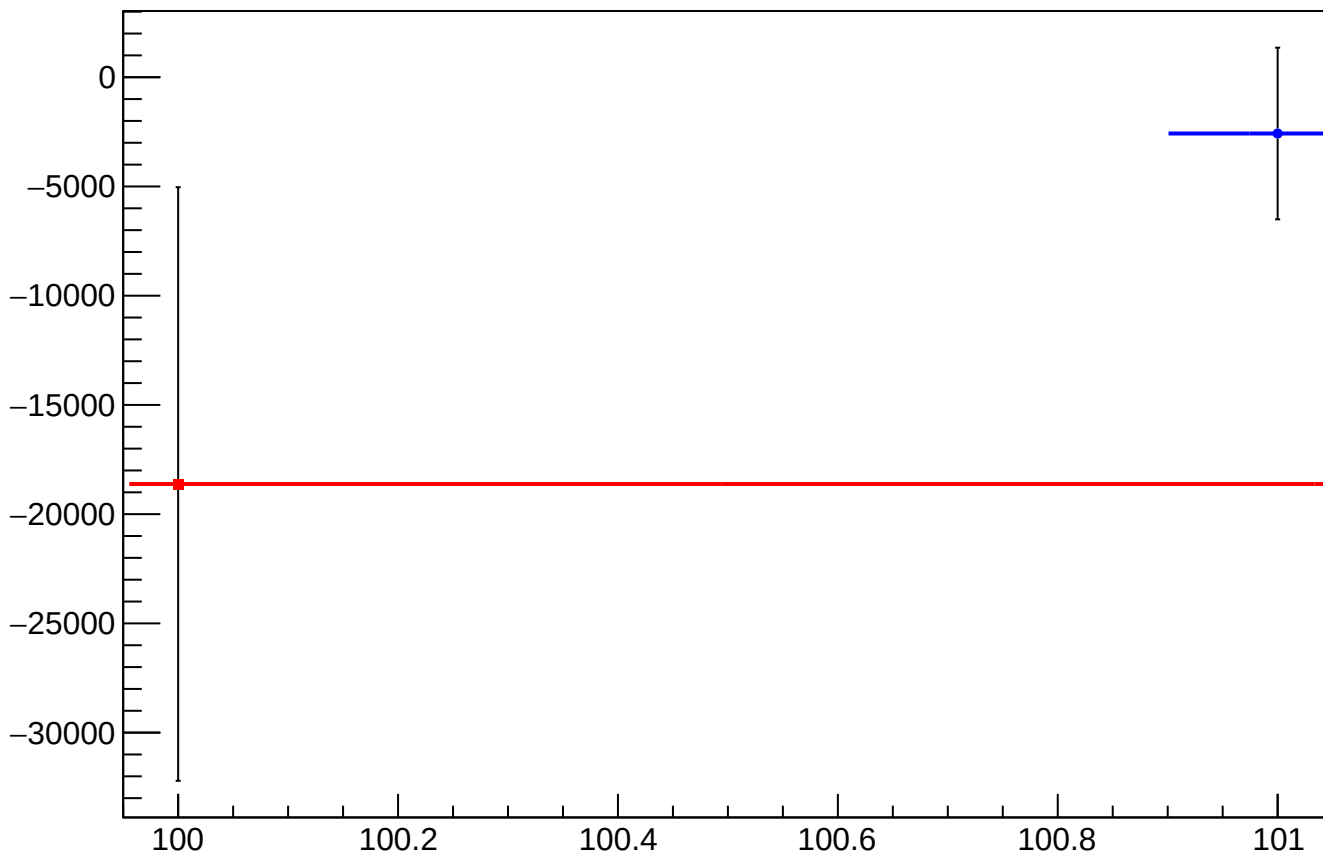
Right: 1422.899 $\pm$ 1.188  $\chi^2$ /NDF: 19784.8/1

In: 1388.367 $\pm$ 1.213  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1422.899 $\pm$ 1.188  $\chi^2$ /NDF: 19784.8/1

eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2575.603+/-3928.683  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18619.608+/-13585.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

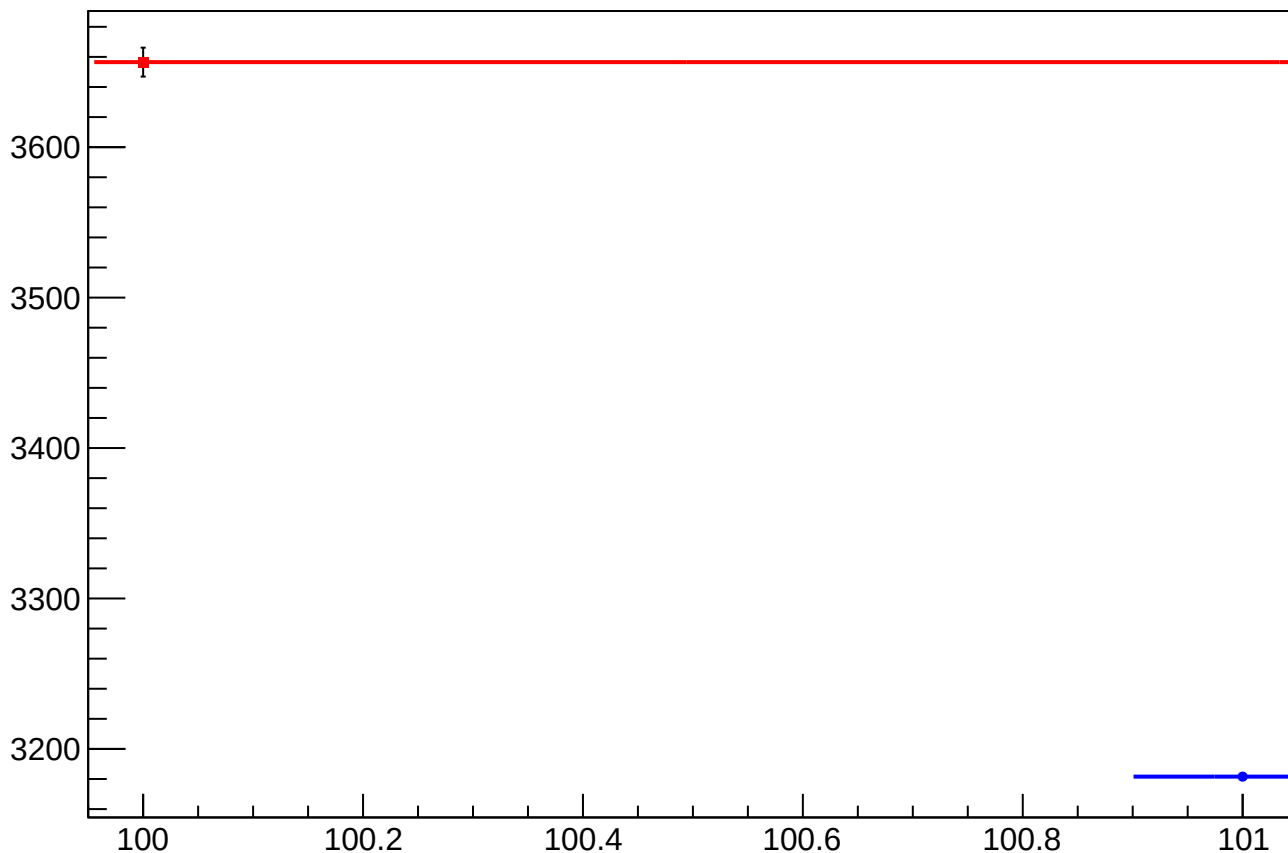
Right: -3813.780+/-3774.044  $\chi^2/\text{NDF}$ : 1.3/1

In: -2575.603+/-3928.683  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3813.780+/-3774.044  $\chi^2/\text{NDF}$ : 1.3/1

eigen\_cor\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3181.586 $\pm$ 2.778  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3656.534 $\pm$ 9.606  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

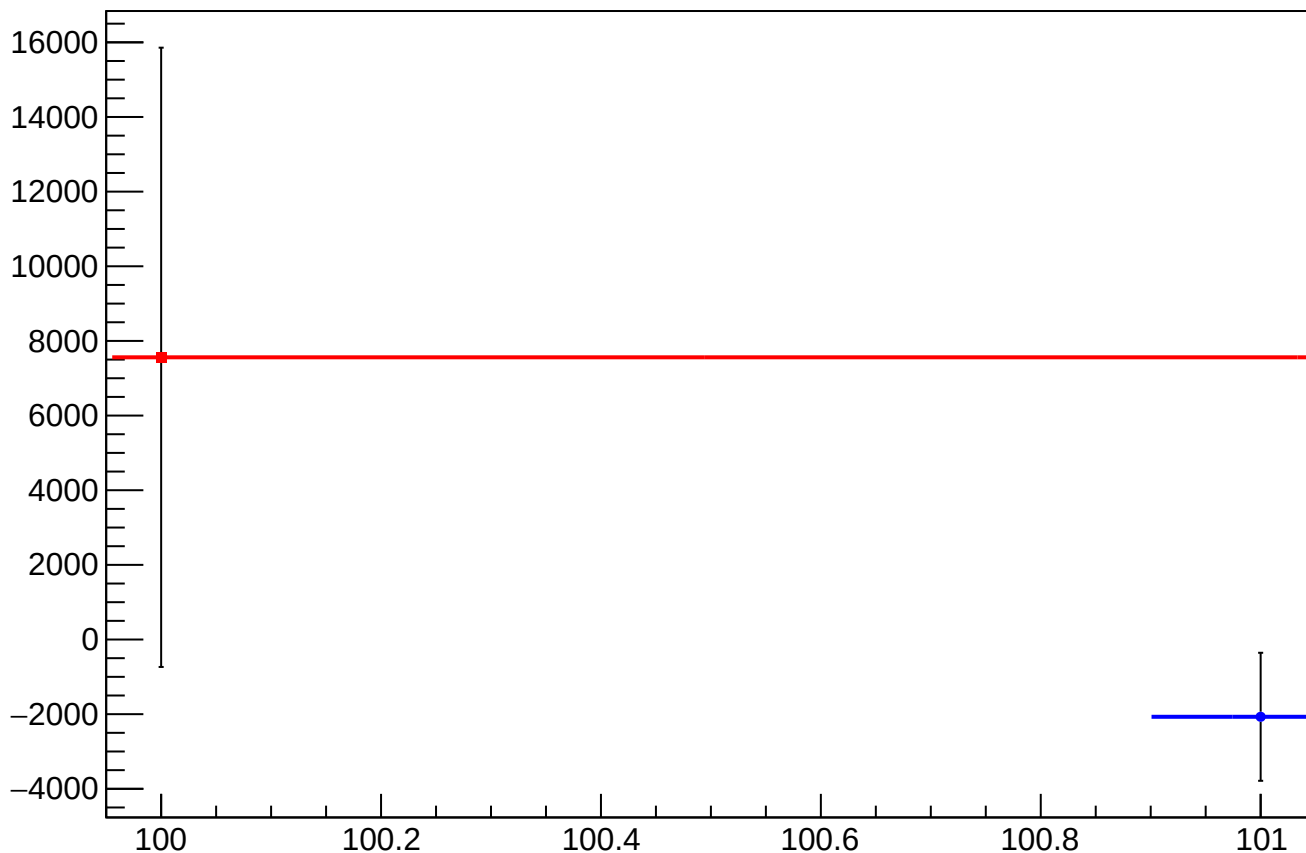
Right: 3218.239 $\pm$ 2.669  $\chi^2$ /NDF: 2255.8/1

In: 3181.586 $\pm$ 2.778  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3218.239 $\pm$ 2.669  $\chi^2$ /NDF: 2255.8/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2070.192+/-1715.004  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7560.796+/-8296.086  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

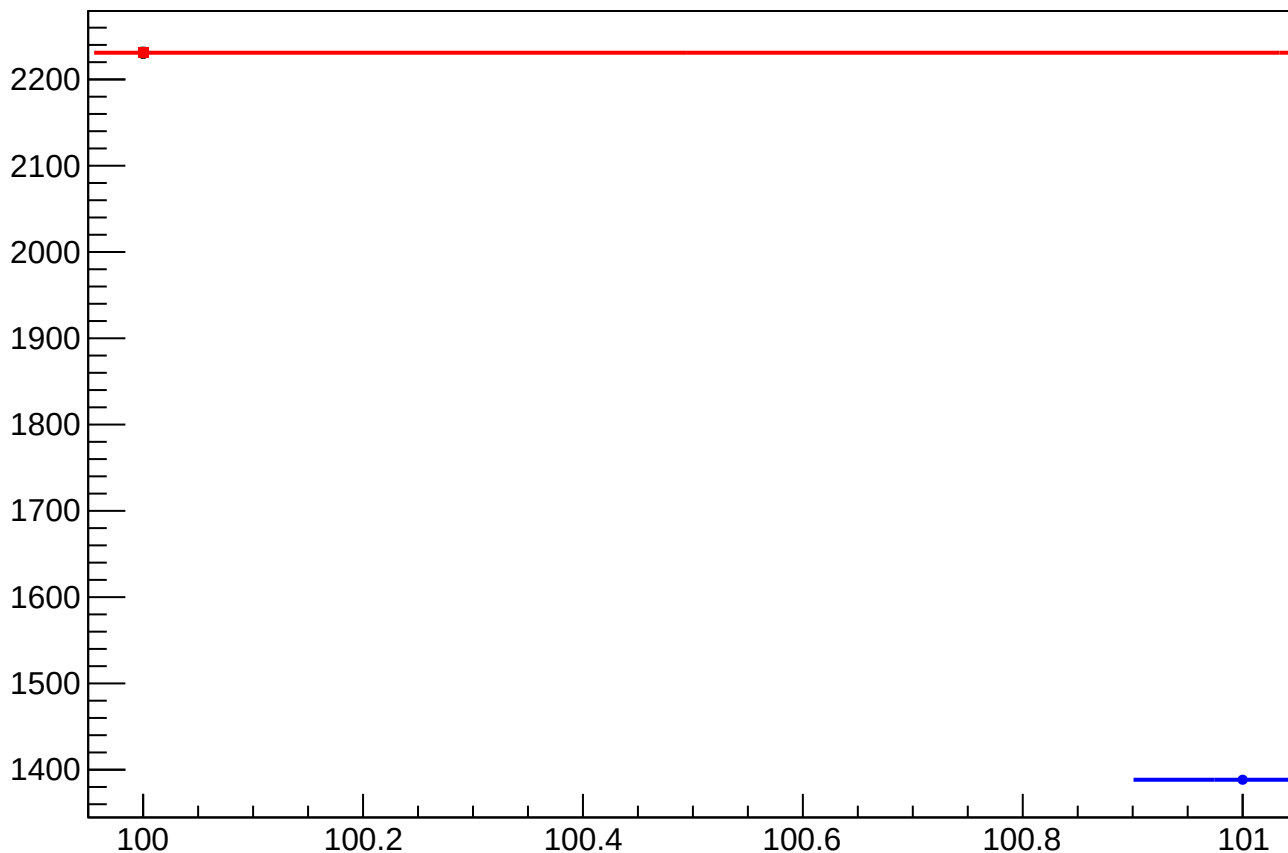
Right: -1675.480+/-1679.493  $\chi^2$ /NDF: 1.3/1

In: -2070.192+/-1715.004  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1675.480+/-1679.493  $\chi^2$ /NDF: 1.3/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1388.367 $\pm$ 1.213  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2230.946 $\pm$ 5.866  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1422.899 $\pm$ 1.188  $\chi^2$ /NDF: 19784.8/1

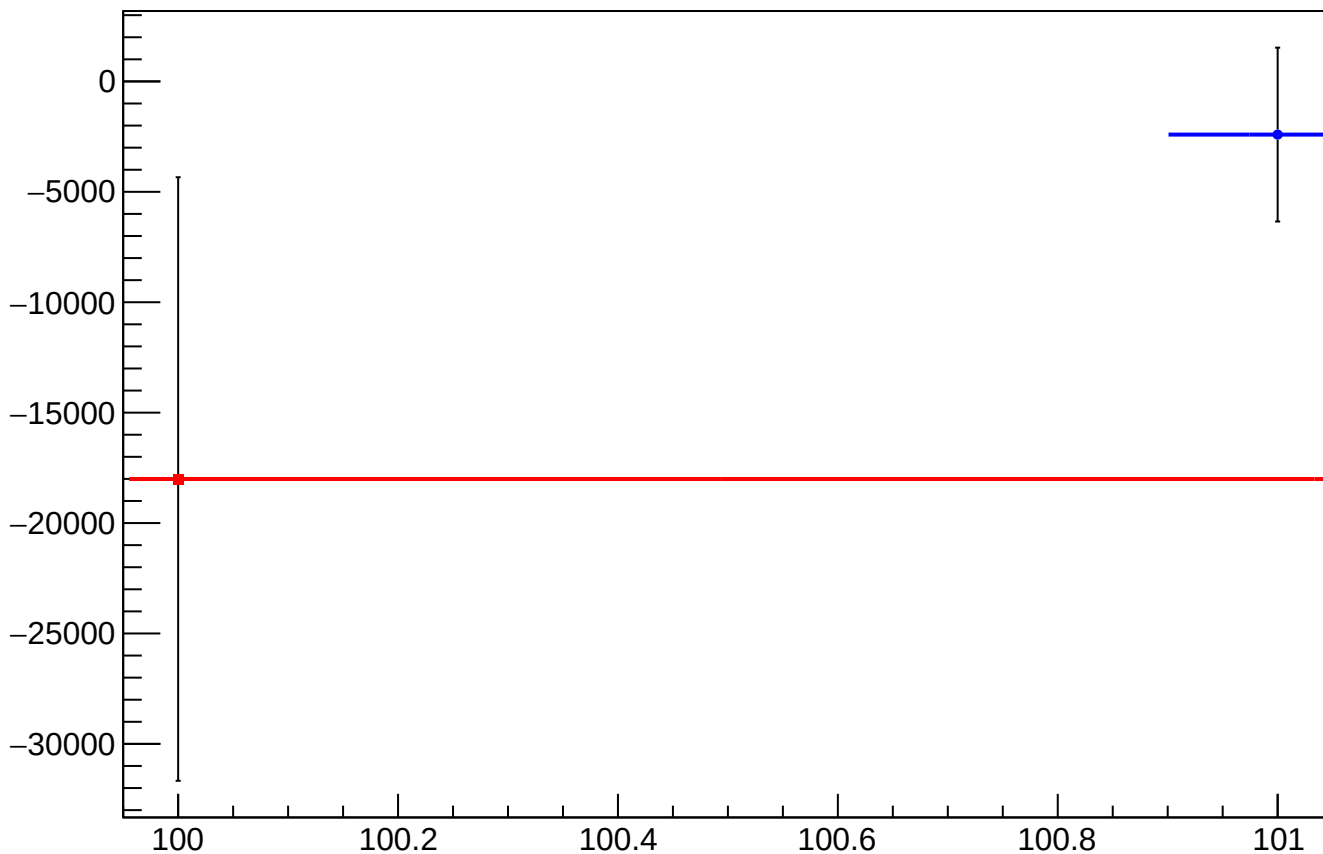
In: 1388.367 $\pm$ 1.213  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1422.899 $\pm$ 1.188  $\chi^2$ /NDF: 19784.8/1



dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2408.047+/-3936.217  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18005.574+/-13666.340  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

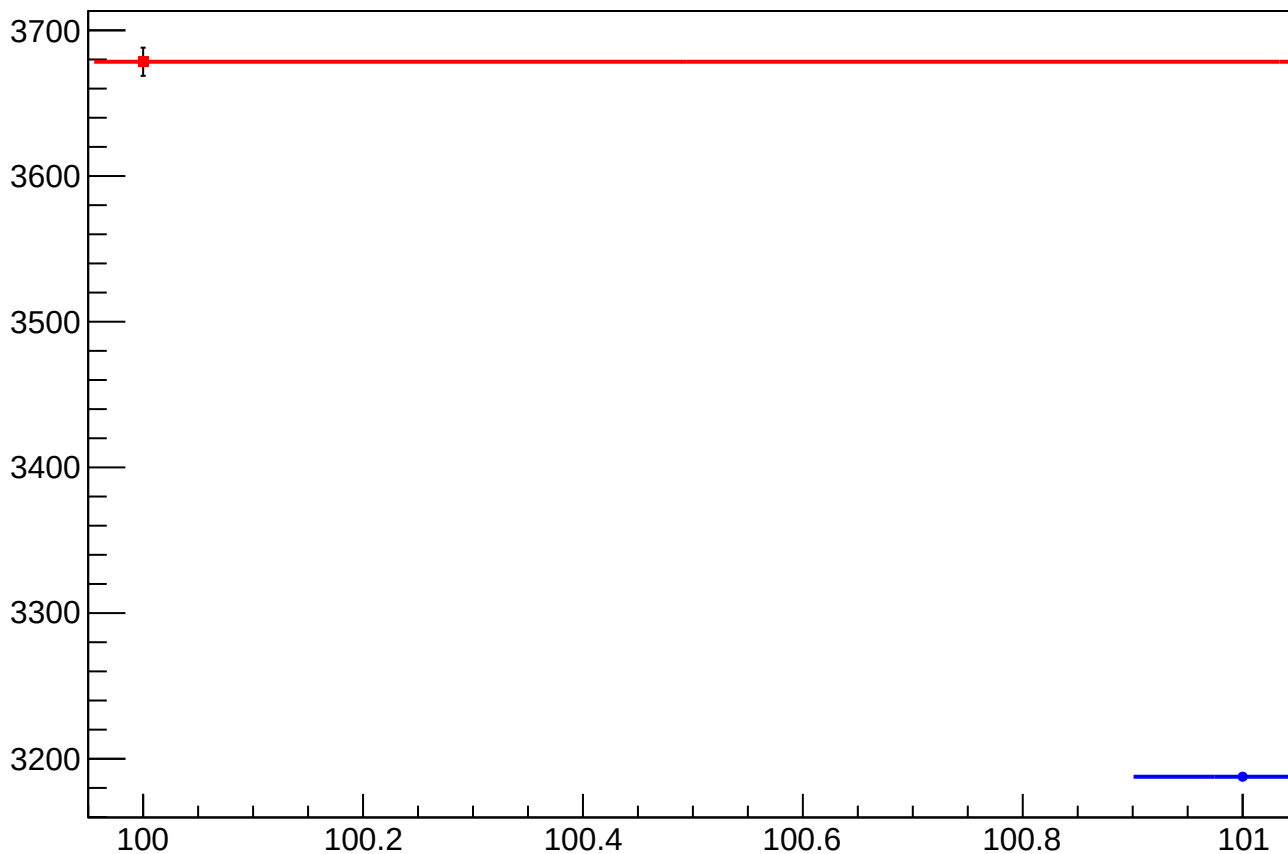
Right: -3602.855+/-3782.452  $\chi^2/\text{NDF}$ : 1.2/1

In: -2408.047+/-3936.217  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3602.855+/-3782.452  $\chi^2/\text{NDF}$ : 1.2/1

dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3187.676+/-2.783  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3678.435+/-9.664  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

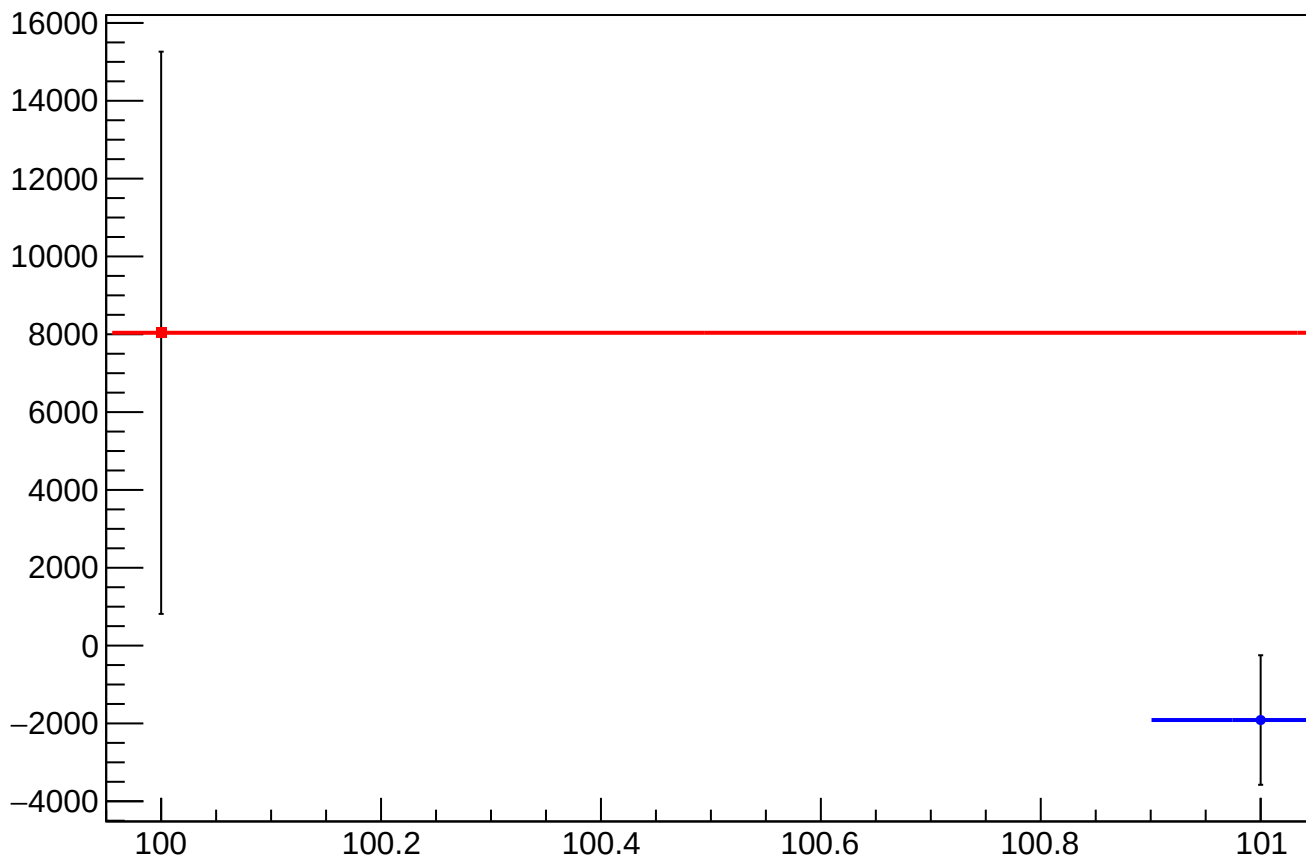
Right: 3225.269+/-2.675  $\chi^2/\text{NDF}$ : 2381.5/1

In: 3187.676+/-2.783  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3225.269+/-2.675  $\chi^2/\text{NDF}$ : 2381.5/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1912.609 $\pm$ 1664.531  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8038.400 $\pm$ 7223.741  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

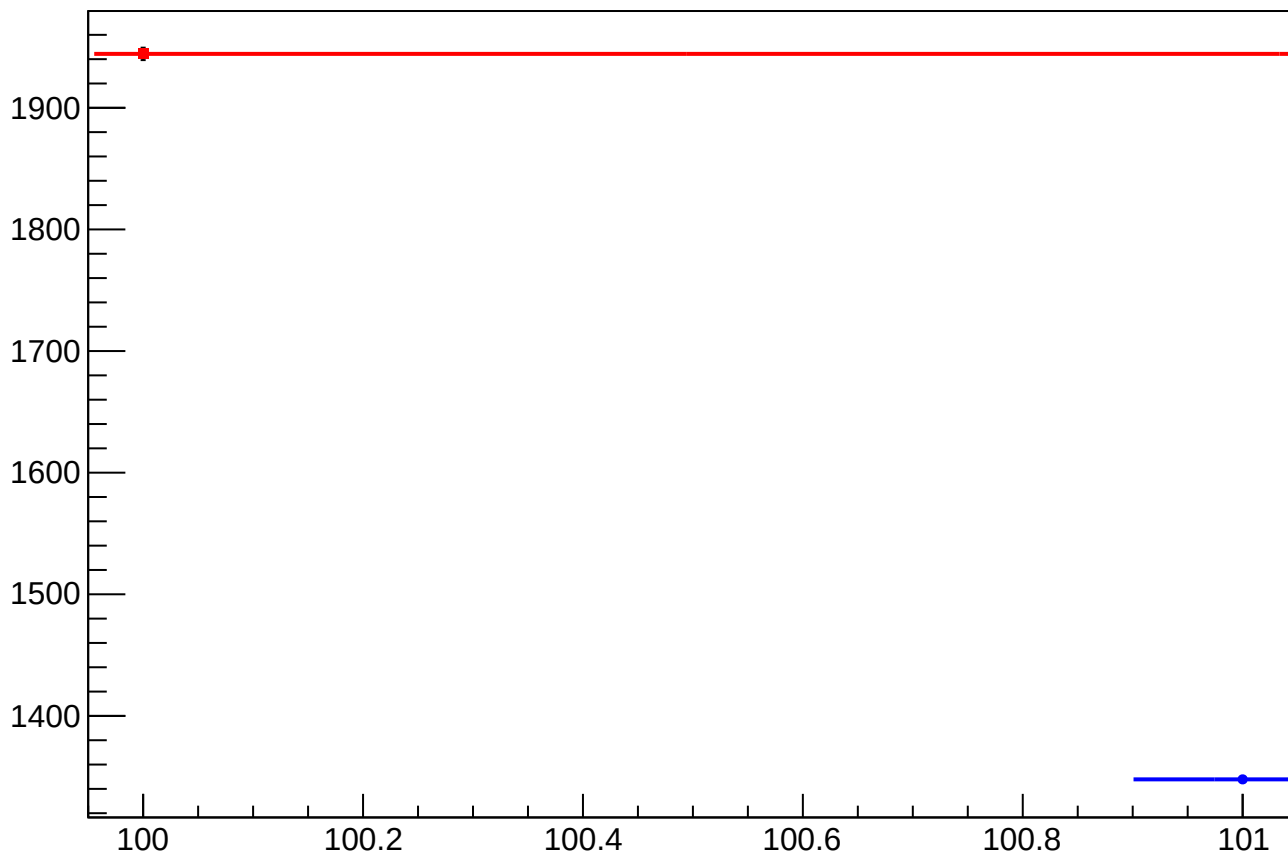
Right: -1410.892 $\pm$ 1622.026  $\chi^2$ /NDF: 1.8/1

In: -1912.609 $\pm$ 1664.531  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1410.892 $\pm$ 1622.026  $\chi^2$ /NDF: 1.8/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1347.822 $\pm$ 1.177  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1944.344 $\pm$ 5.108  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

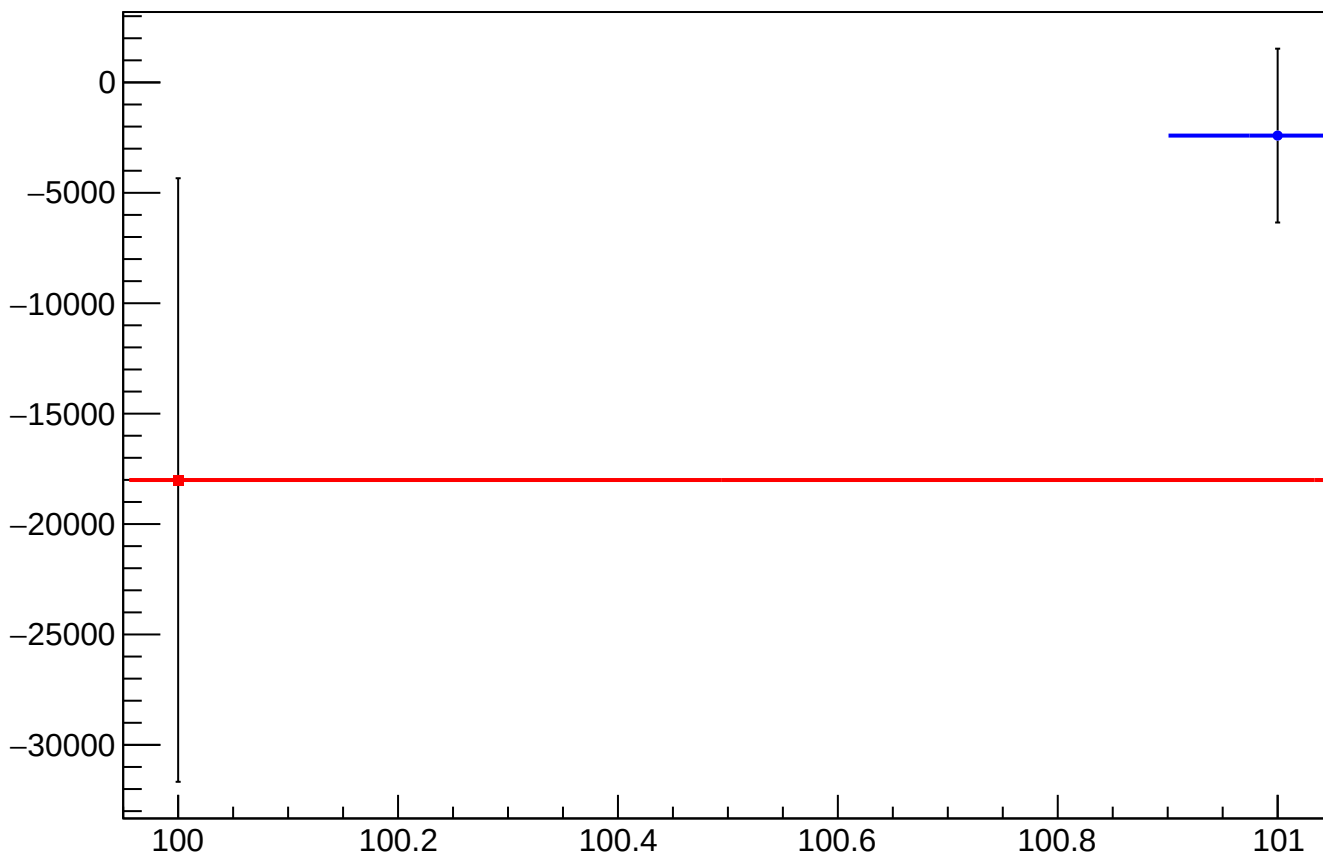
Right: 1377.898 $\pm$ 1.147  $\chi^2$ /NDF: 12950.7/1

In: 1347.822 $\pm$ 1.177  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1377.898 $\pm$ 1.147  $\chi^2$ /NDF: 12950.7/1

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2408.031+/-3936.217  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -18005.649+/-13666.341  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

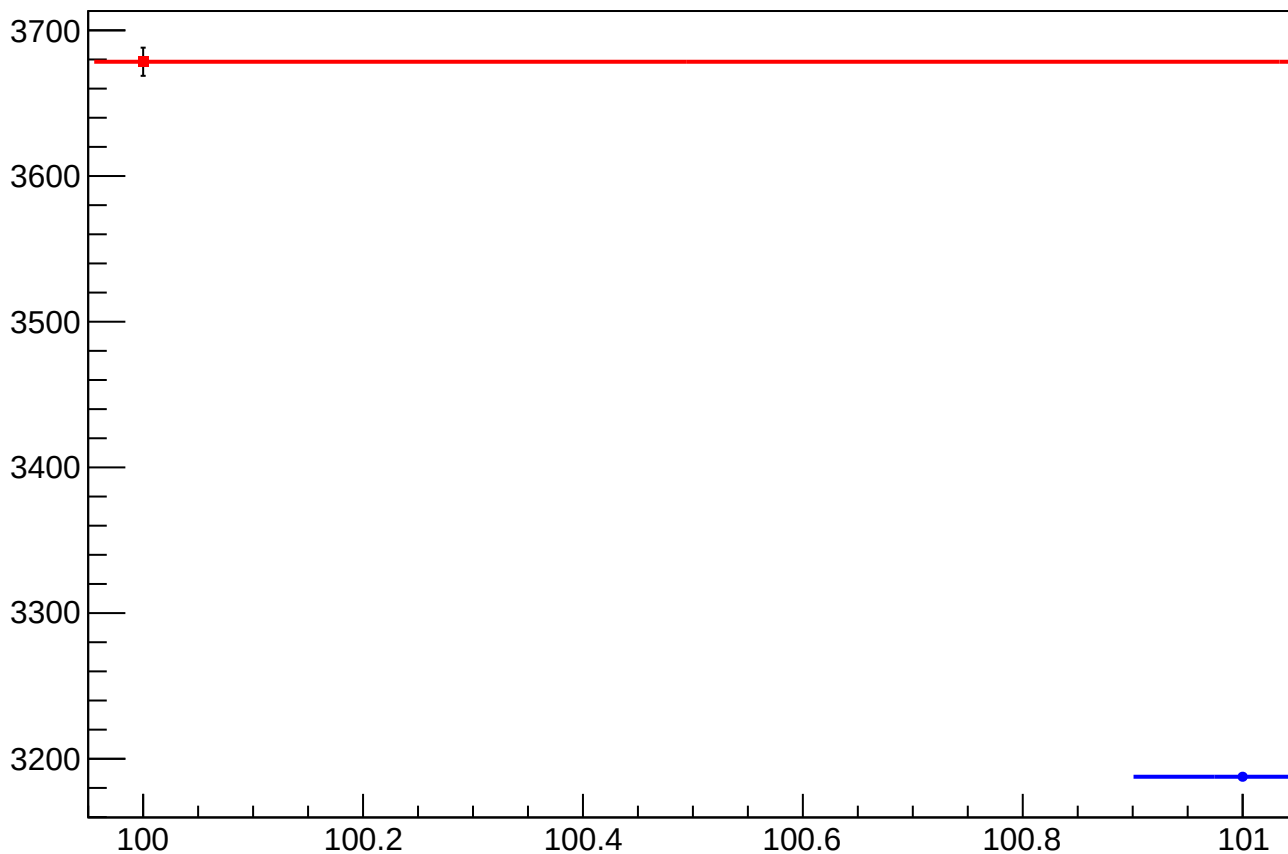
Right: -3602.846+/-3782.452  $\chi^2$ /NDF: 1.2/1

In: -2408.031+/-3936.217  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -3602.846+/-3782.452  $\chi^2$ /NDF: 1.2/1

eigen\_dit\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3187.676 $\pm$ 2.783  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3678.436 $\pm$ 9.664  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

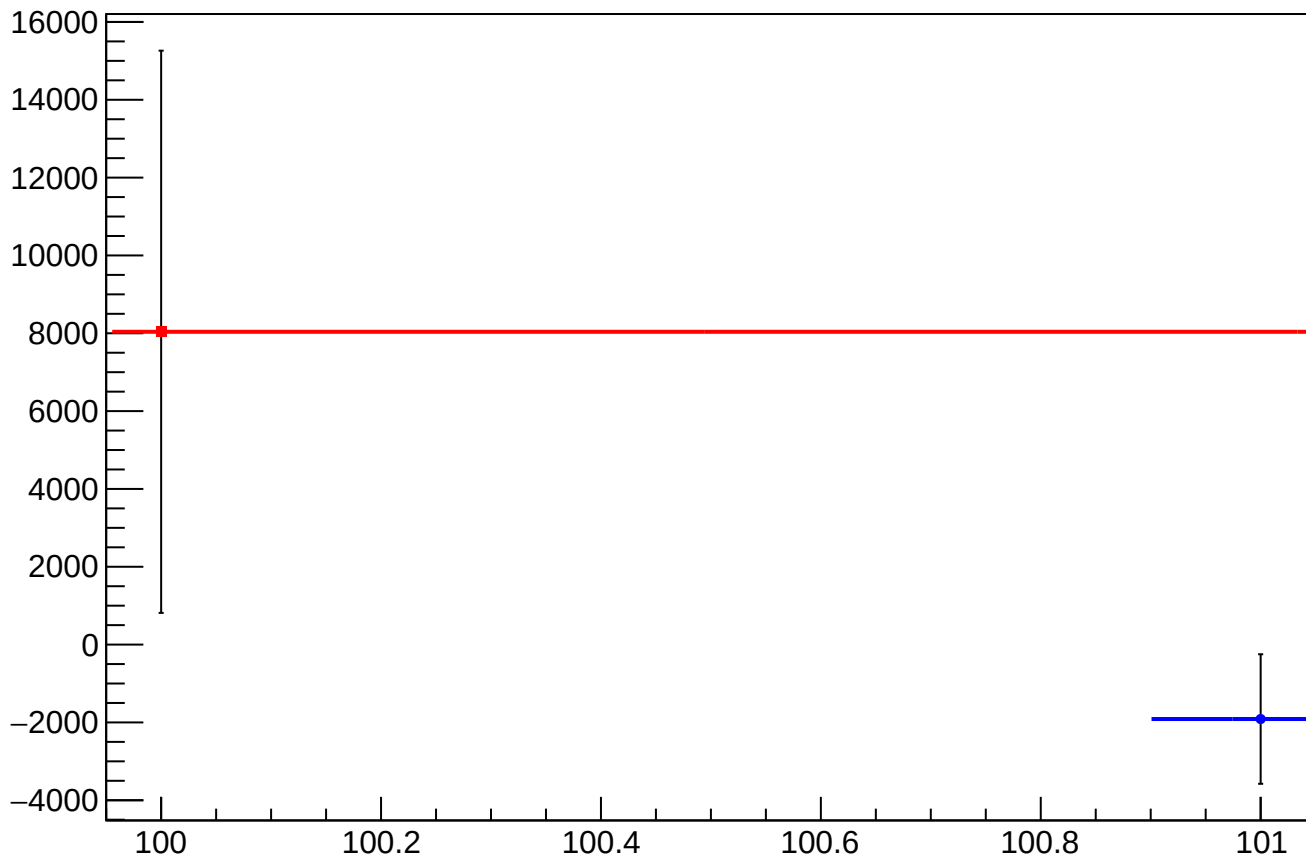
Right: 3225.269 $\pm$ 2.675  $\chi^2$ /NDF: 2381.5/1

In: 3187.676 $\pm$ 2.783  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3225.269 $\pm$ 2.675  $\chi^2$ /NDF: 2381.5/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1912.593+/-1664.526  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8038.323+/-7223.711  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

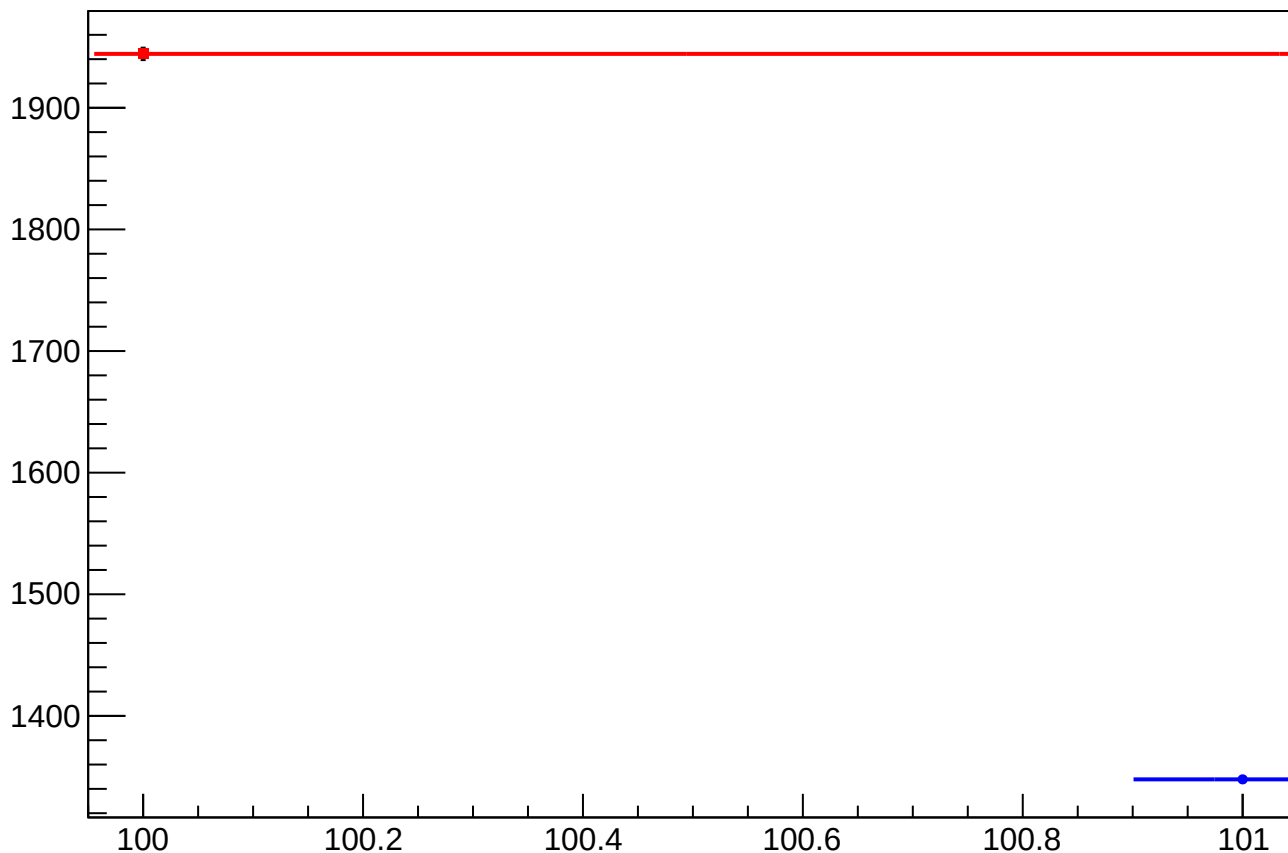
Right: -1410.880+/-1622.022  $\chi^2$ /NDF: 1.8/1

In: -1912.593+/-1664.526  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1410.880+/-1622.022  $\chi^2$ /NDF: 1.8/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1347.818 $\pm$ 1.177  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1944.336 $\pm$ 5.108  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1377.894 $\pm$ 1.147  $\chi^2$ /NDF: 12950.6/1

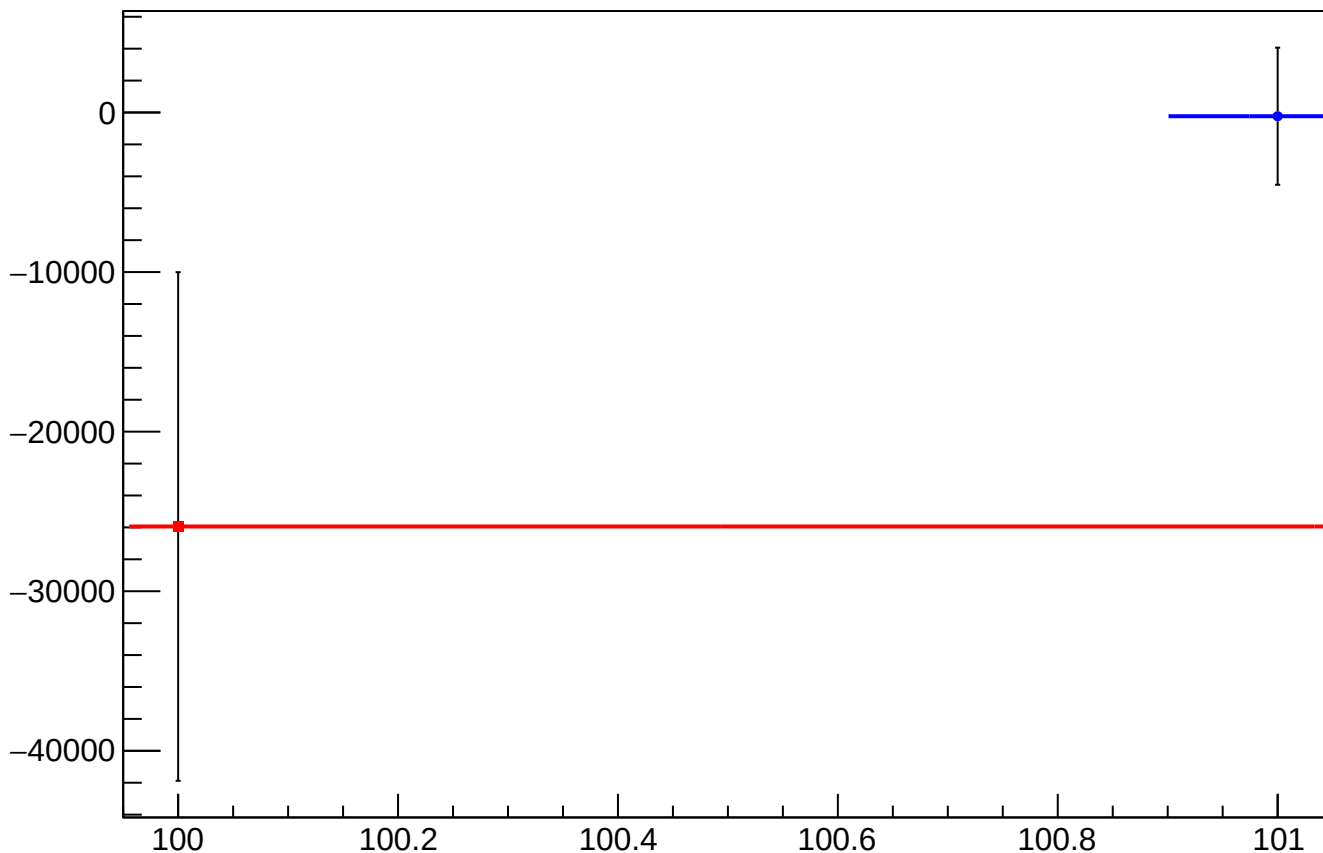
In: 1347.818 $\pm$ 1.177  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1377.894 $\pm$ 1.147  $\chi^2$ /NDF: 12950.6/1



asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -232.899+/-4295.530  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25942.305+/-15936.797  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

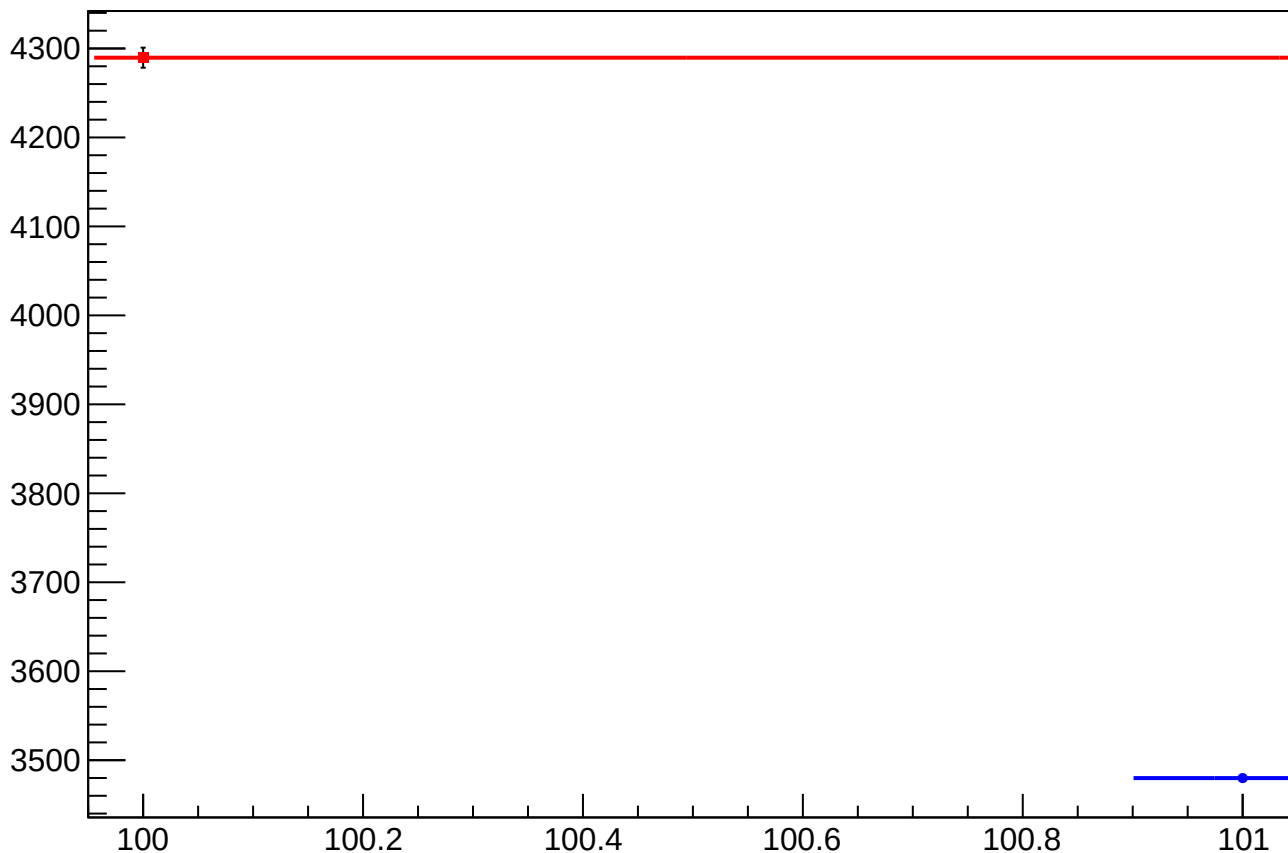
Right: -1974.167+/-4147.514  $\chi^2/\text{NDF}$ : 2.4/1

In: -232.899+/-4295.530  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1974.167+/-4147.514  $\chi^2/\text{NDF}$ : 2.4/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3479.882 $\pm$ 3.037  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4289.653 $\pm$ 11.269  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

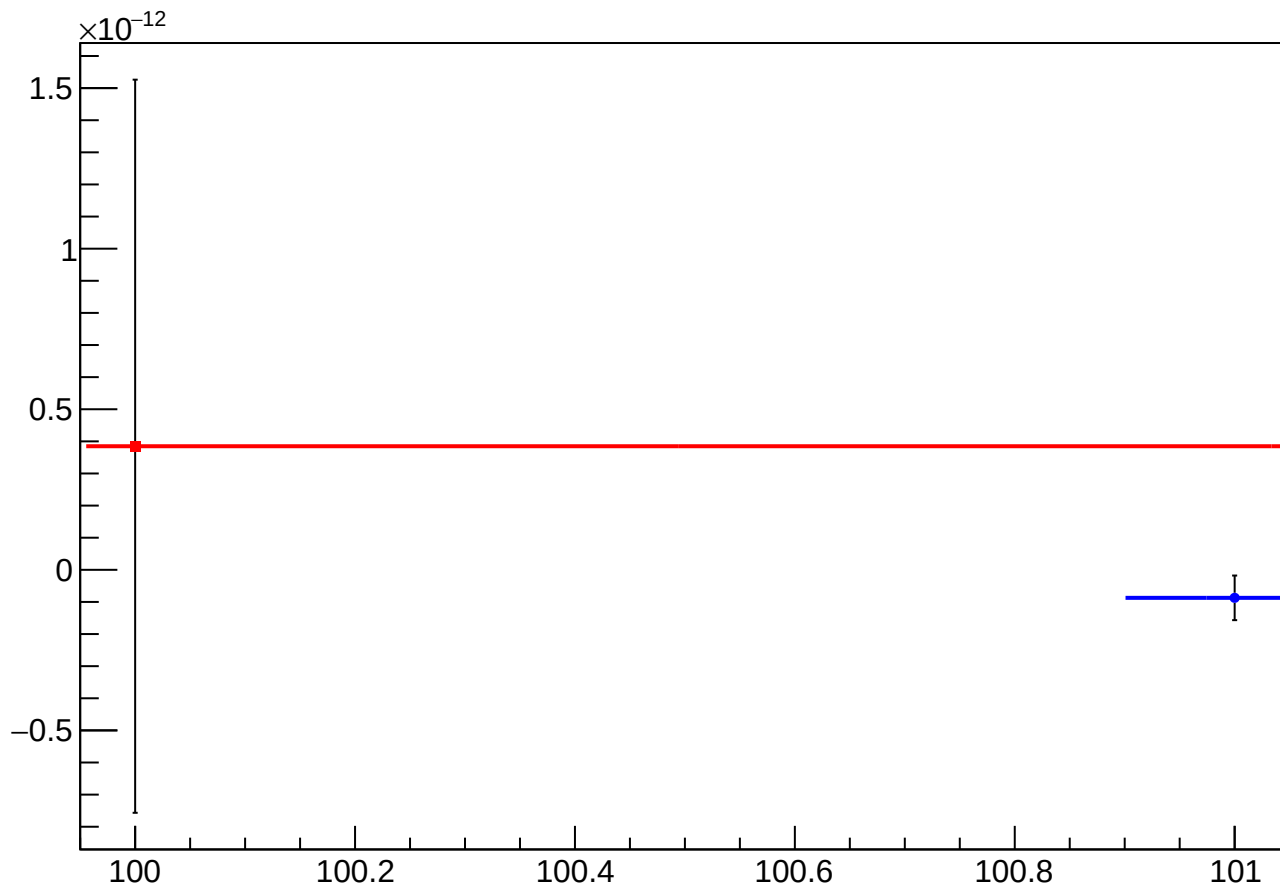
Right: 3534.727 $\pm$ 2.933  $\chi^2$ /NDF: 4813.9/1

In: 3479.882 $\pm$ 3.037  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3534.727 $\pm$ 2.933  $\chi^2$ /NDF: 4813.9/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

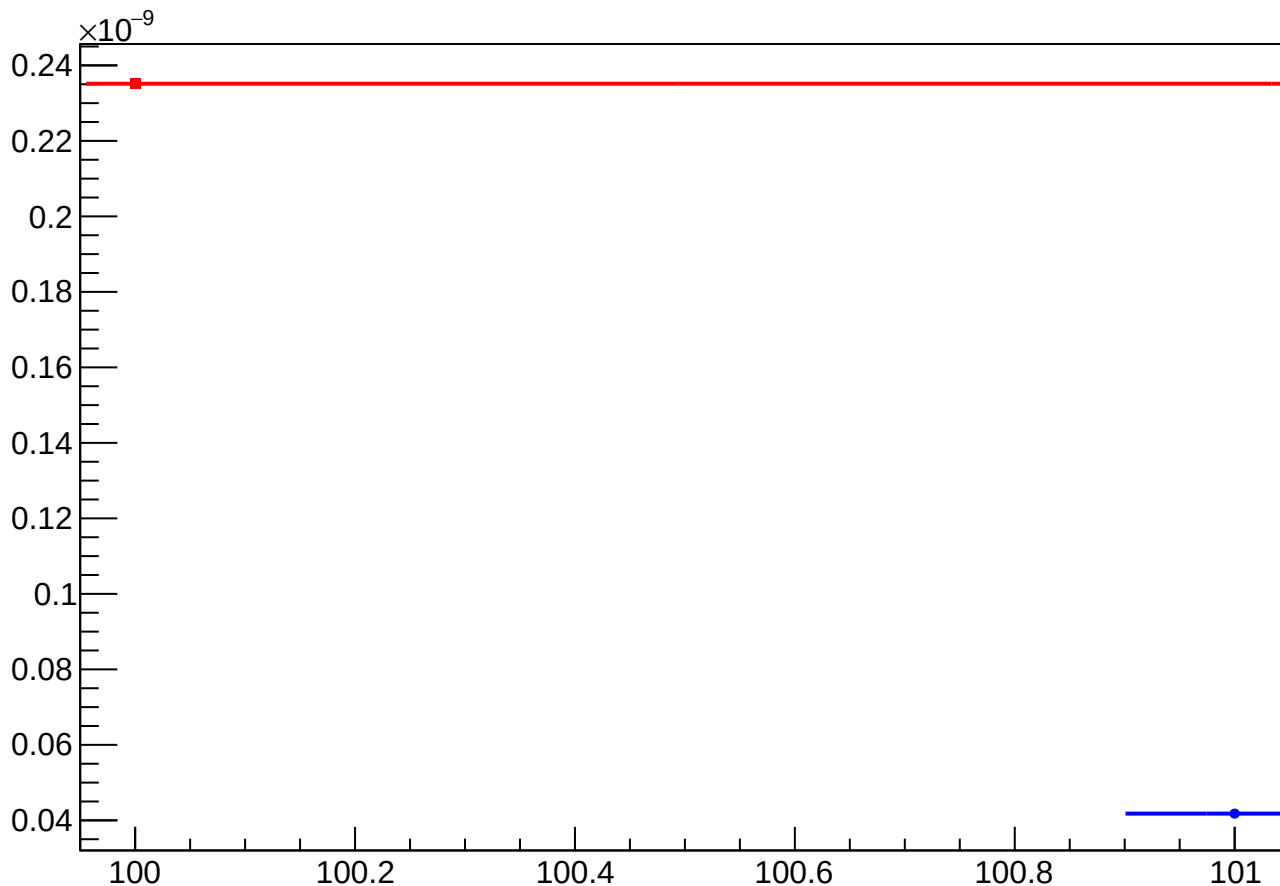
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.2/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.2/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

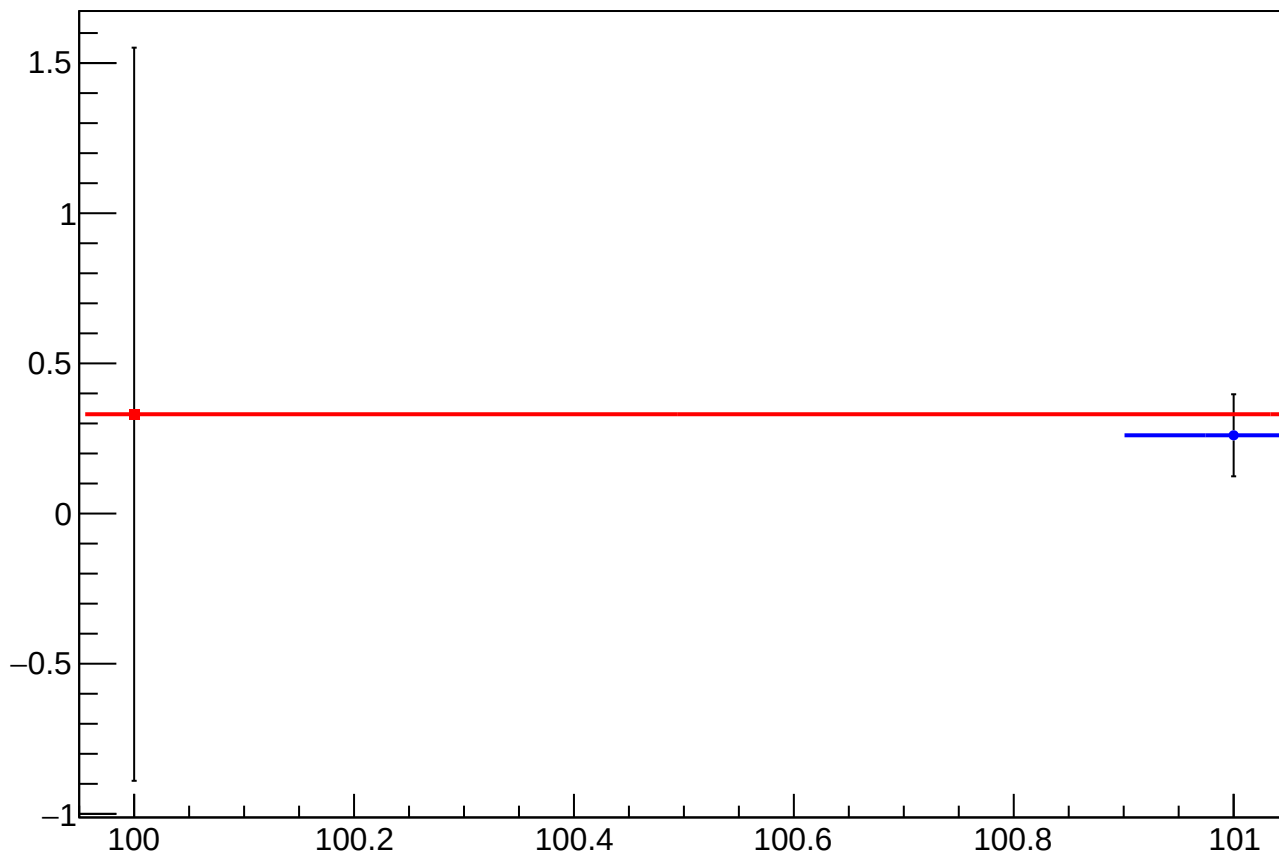
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 57179.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 57179.4/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.261+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.331+/-1.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

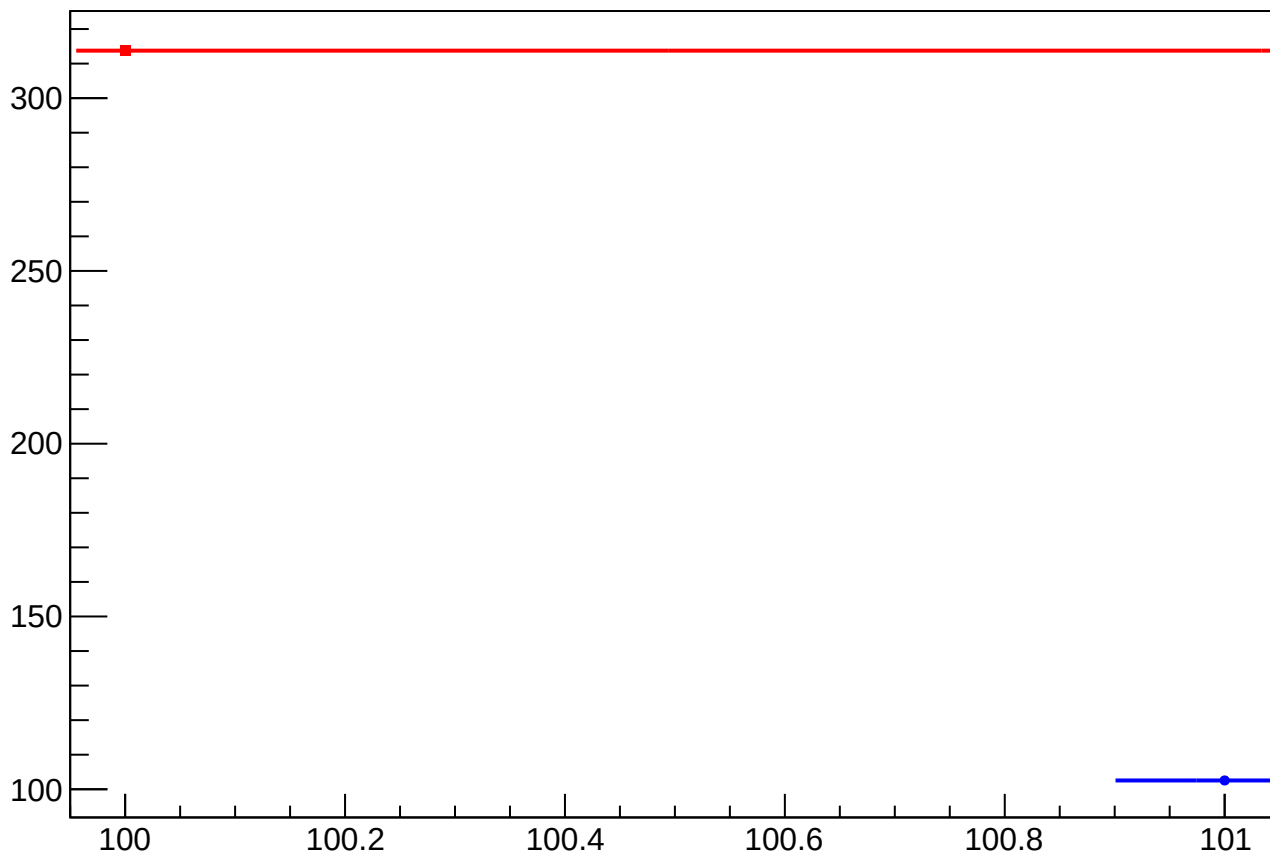
Right: 0.261+/-0.136  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.261+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.261+/-0.136  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 102.545 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 313.744 $\pm$ 0.863  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

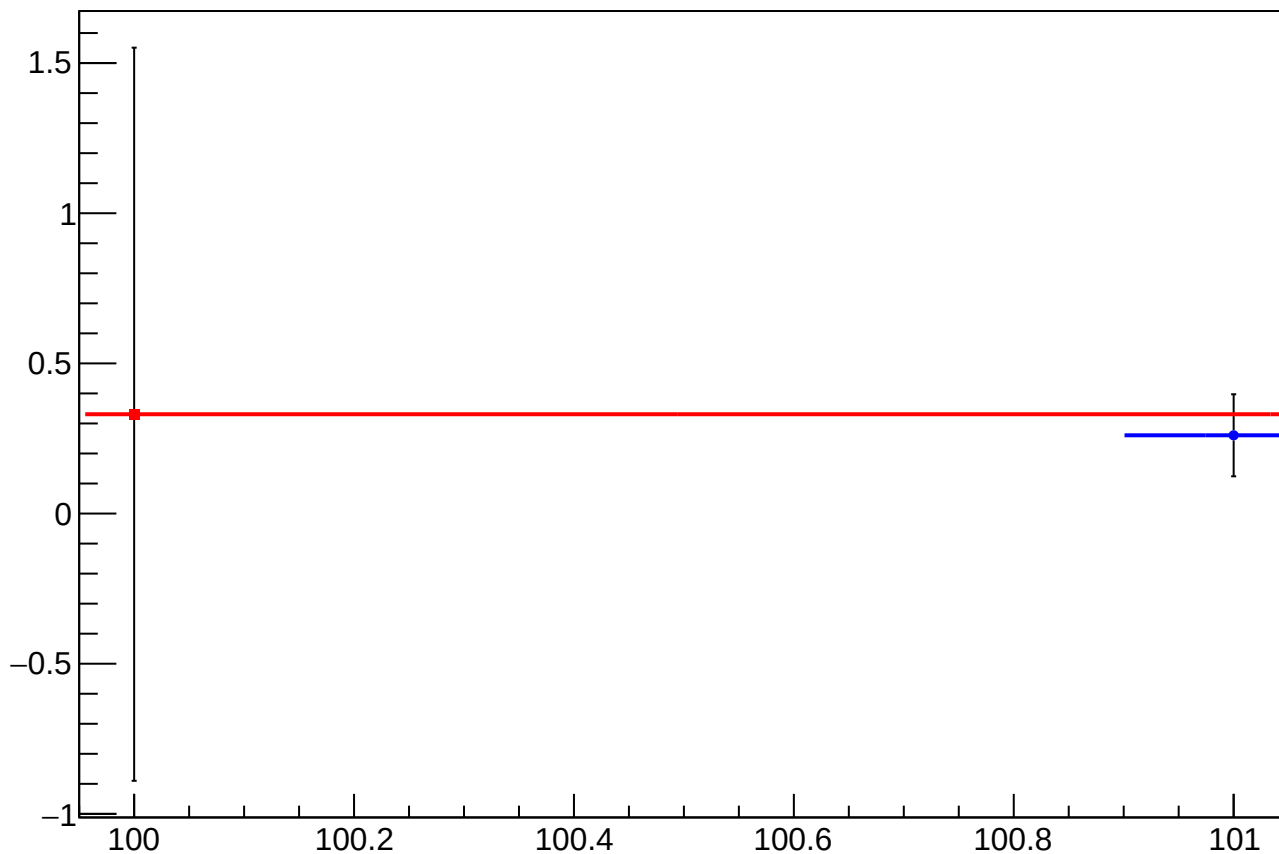
Right: 105.157 $\pm$ 0.096  $\chi^2$ /NDF: 59138.9/1

In: 102.545 $\pm$ 0.097  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 105.157 $\pm$ 0.096  $\chi^2$ /NDF: 59138.9/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.261 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.331 $\pm$ 1.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

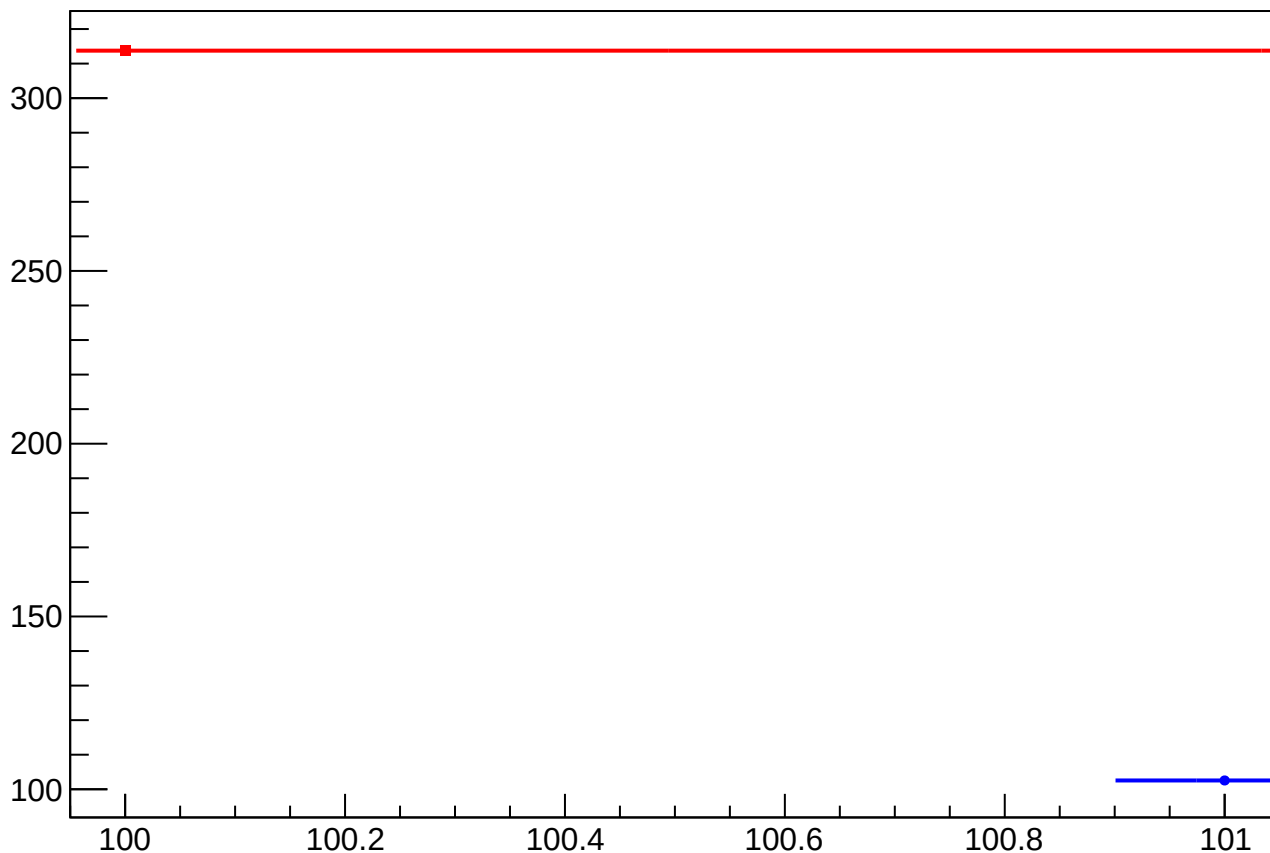
Right: 0.261 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.261 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.261 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 102.545 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 313.744 $\pm$ 0.863  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 105.157 $\pm$ 0.096  $\chi^2$ /NDF: 59138.9/1

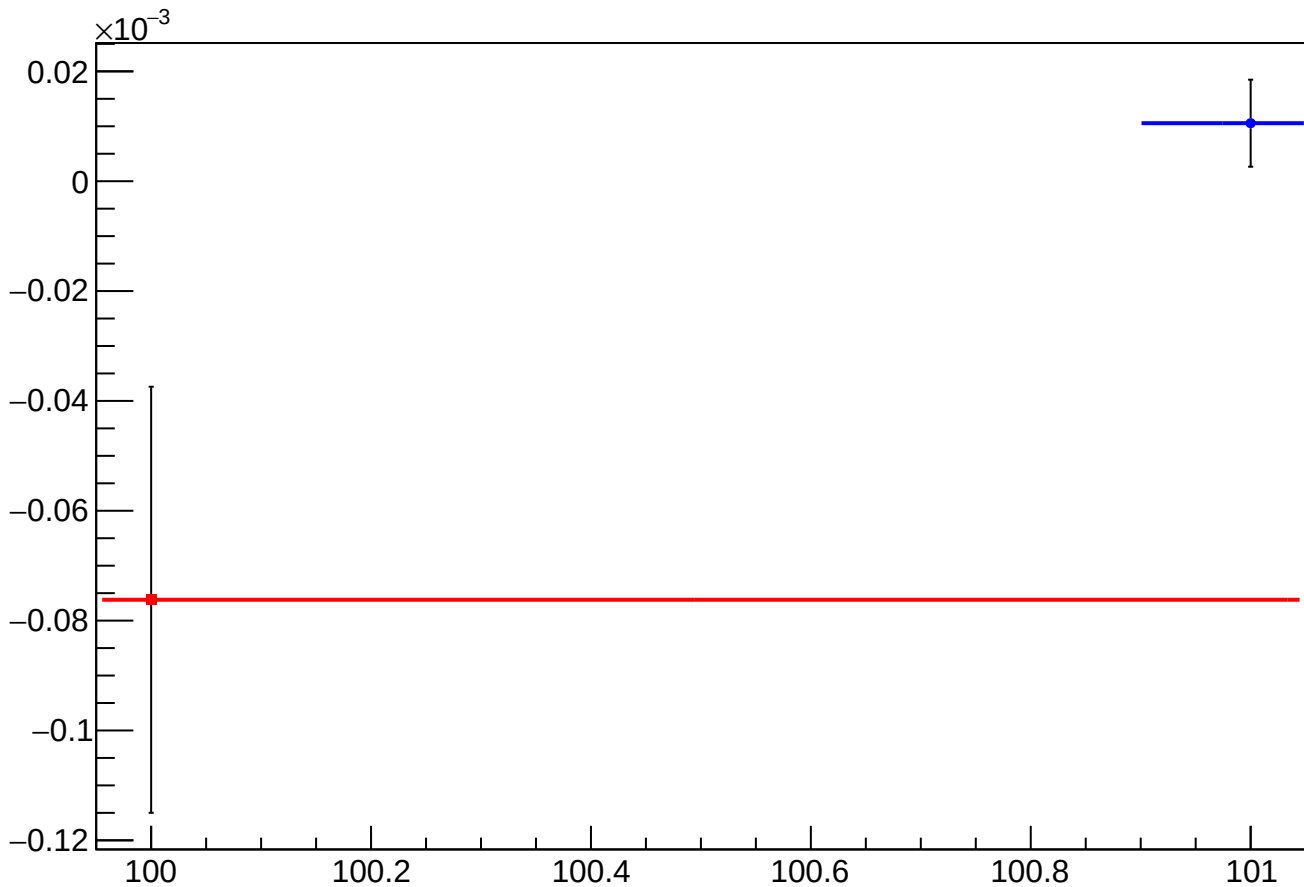
In: 102.545 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 105.157 $\pm$ 0.096  $\chi^2$ /NDF: 59138.9/1



asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

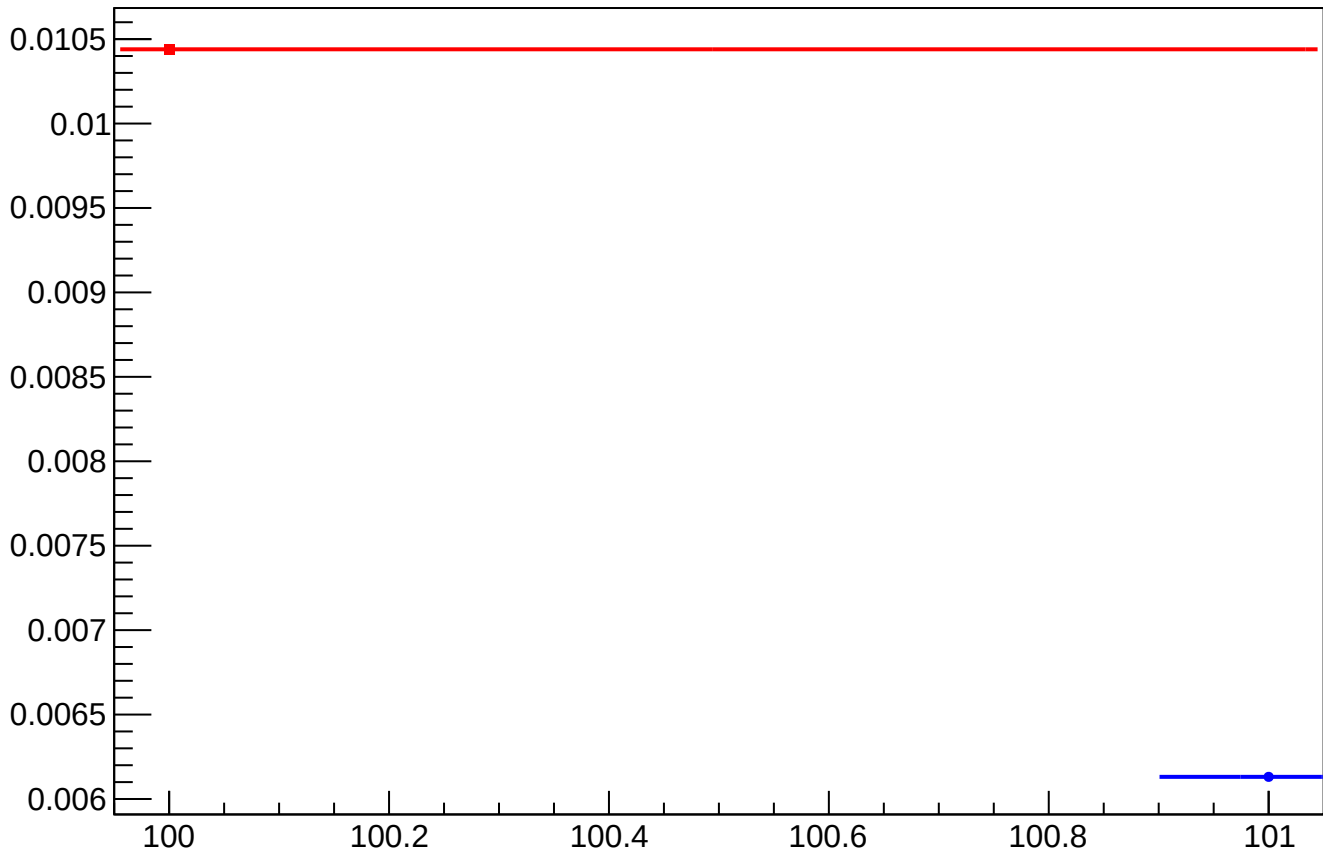
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.8/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

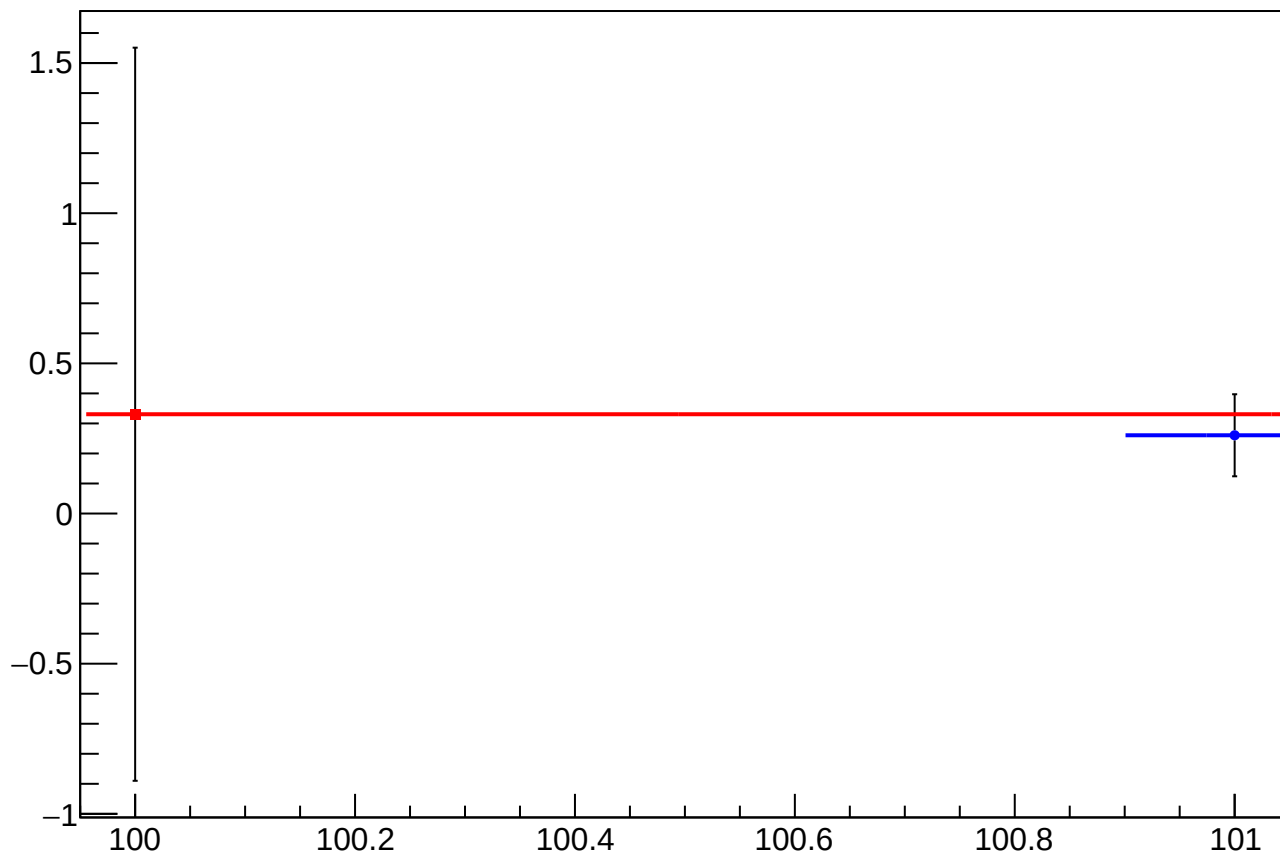
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 23692.0/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 23692.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.261 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.331 $\pm$ 1.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

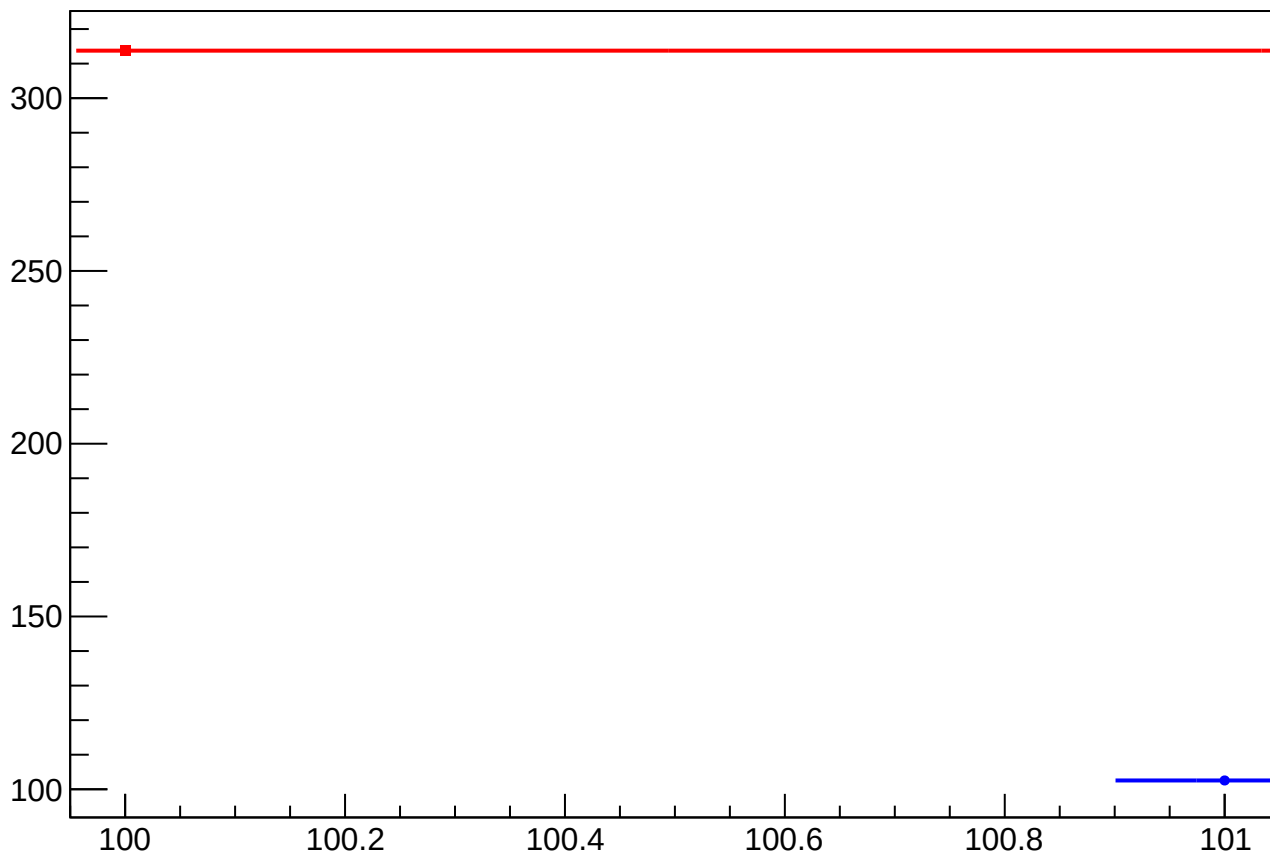
Right: 0.261 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.261 $\pm$ 0.137  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.261 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 102.546 $\pm$ 0.097  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 313.748 $\pm$ 0.863  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

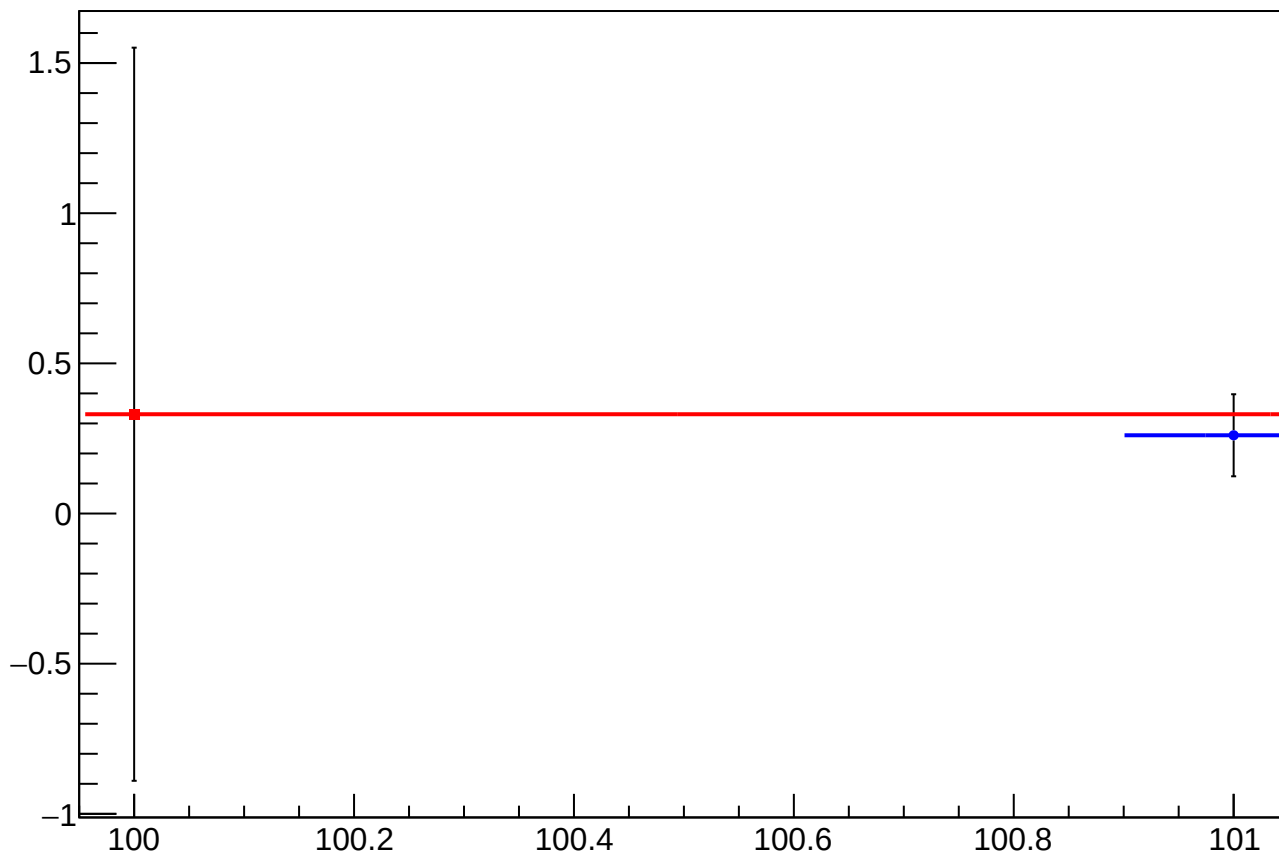
Right: 105.159 $\pm$ 0.096  $\chi^2/\text{NDF}$ : 59139.0/1

In: 102.546 $\pm$ 0.097  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 105.159 $\pm$ 0.096  $\chi^2/\text{NDF}$ : 59139.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.261+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.331+/-1.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

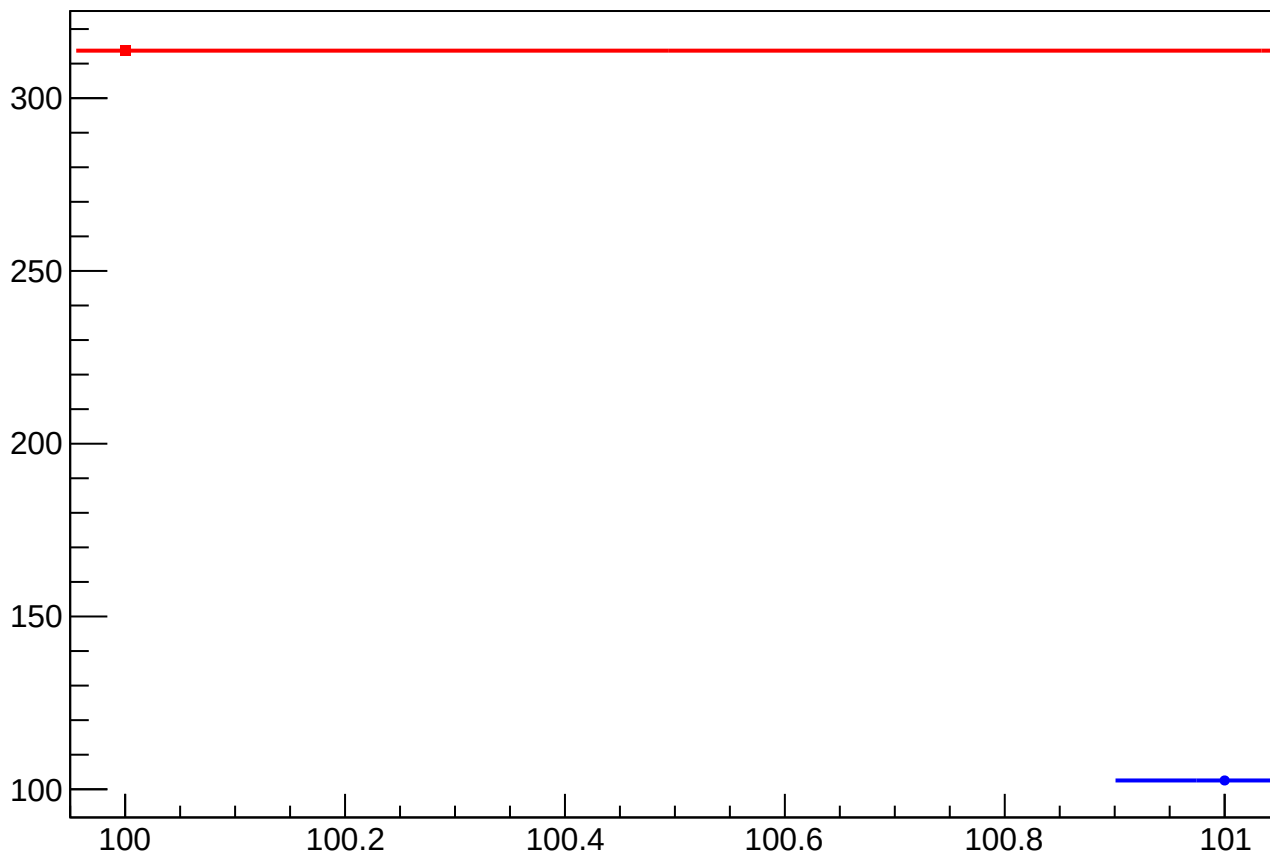
Right: 0.261+/-0.136  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.261+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.261+/-0.136  $\chi^2/\text{NDF}$ : 0.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 102.546 +/- 0.097  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 313.748 +/- 0.863  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

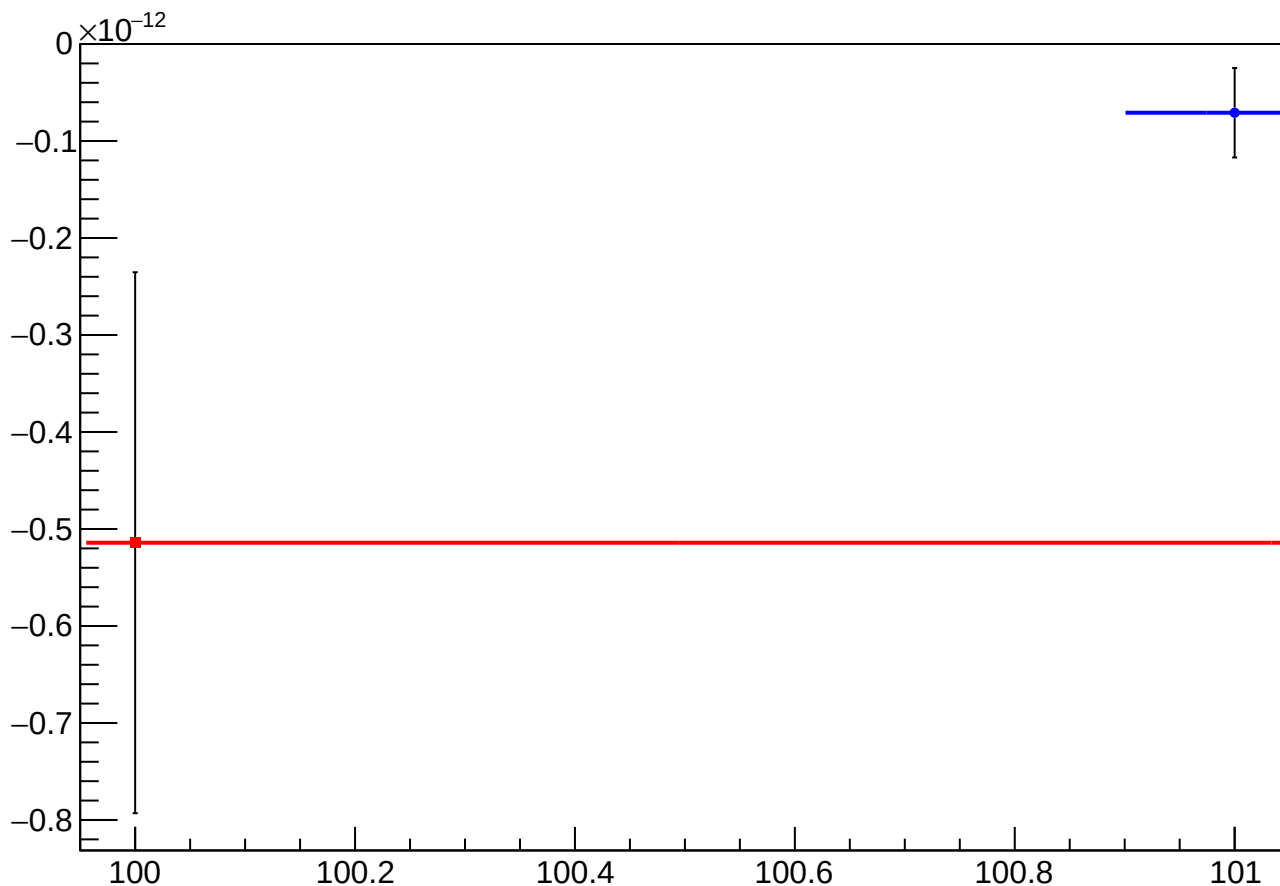
Right: 105.159 +/- 0.096  $\chi^2/\text{NDF}$ : 59139.0/1

In: 102.546 +/- 0.097  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 105.159 +/- 0.096  $\chi^2/\text{NDF}$ : 59139.0/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

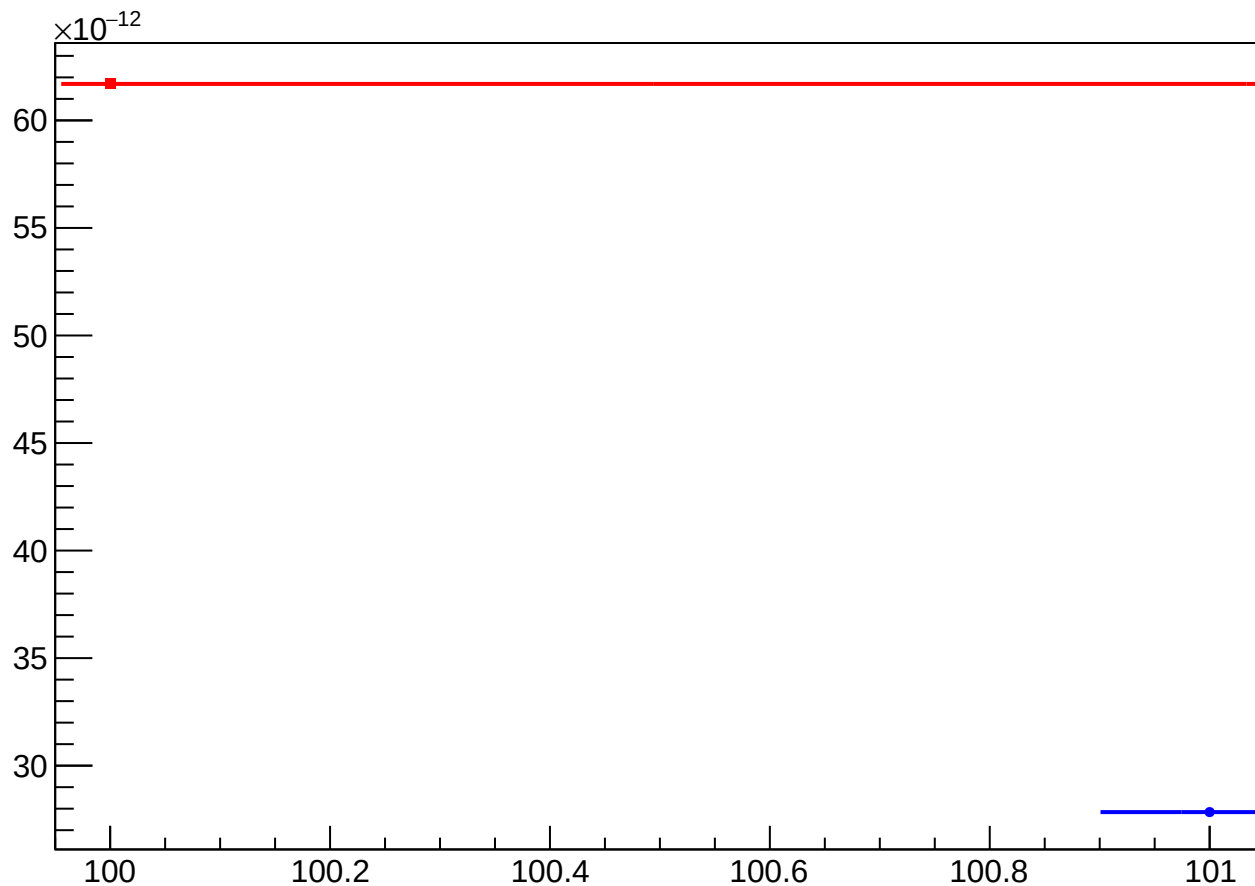
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.5/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.5/1

asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28694.3/1

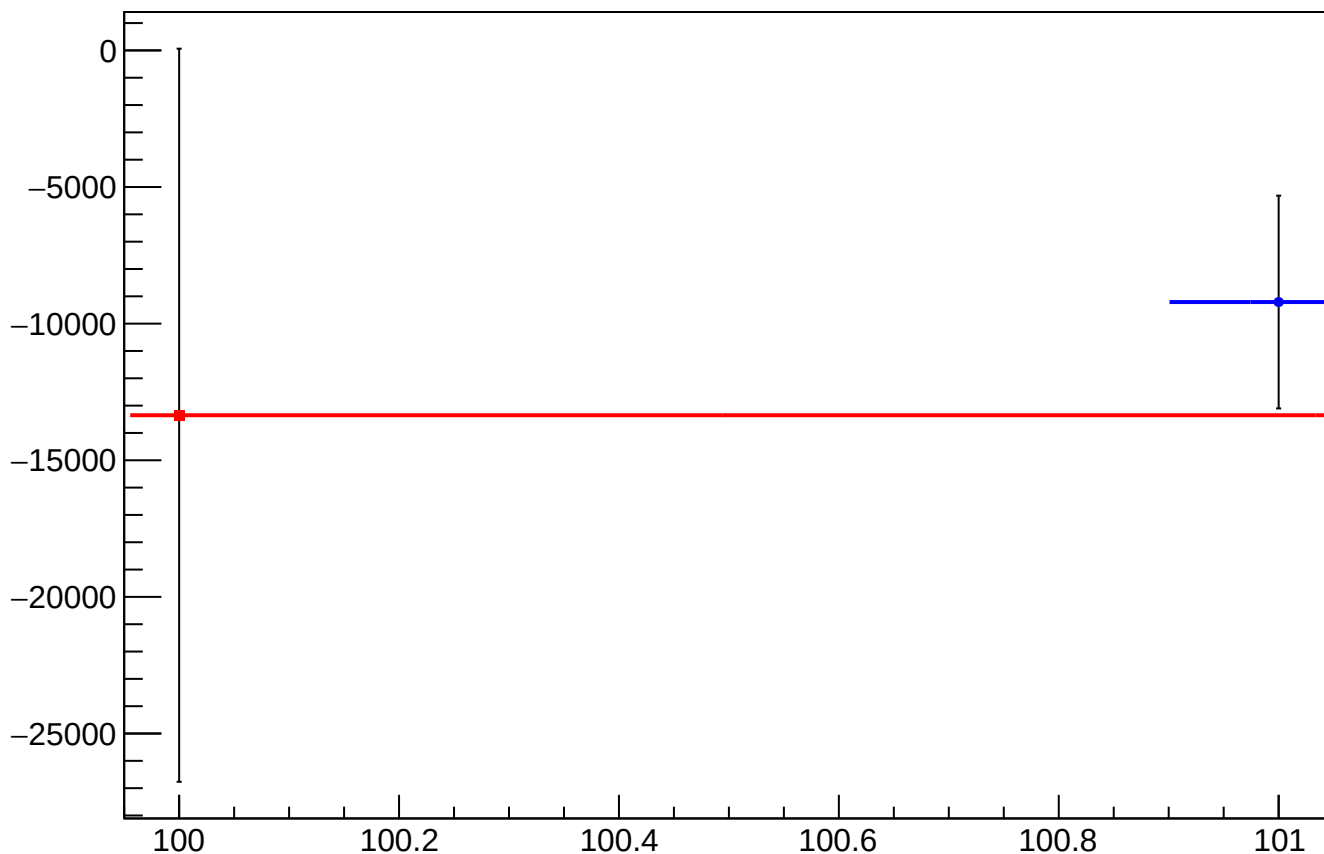
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28694.3/1



reg\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -9209.362 $\pm$ 3893.119  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -13351.799 $\pm$ 13415.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

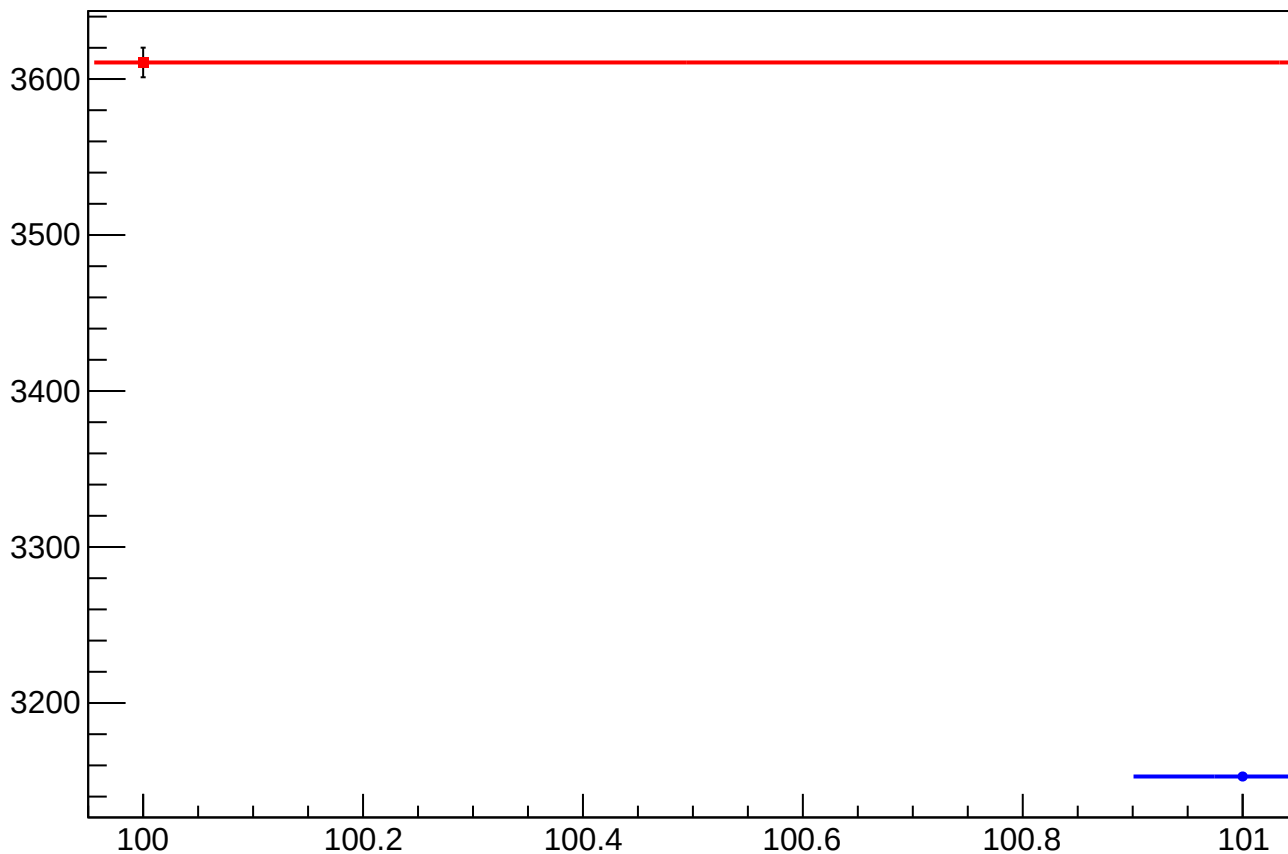
Right: -9531.135 $\pm$ 3738.860  $\chi^2$ /NDF: 0.1/1

In: -9209.362 $\pm$ 3893.119  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9531.135 $\pm$ 3738.860  $\chi^2$ /NDF: 0.1/1

reg\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3152.882+/-2.753  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3610.603+/-9.486  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

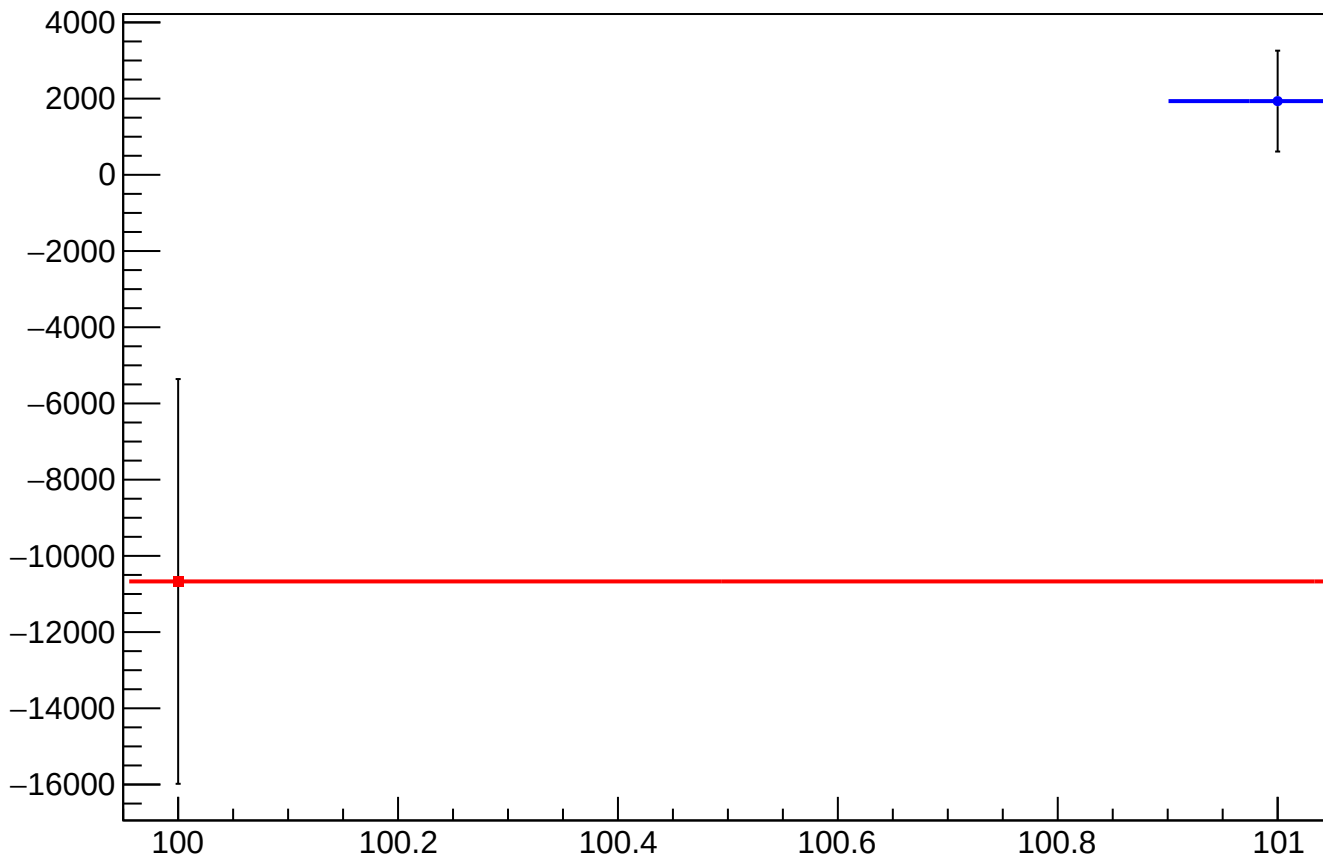
Right: 3188.437+/-2.644  $\chi^2/\text{NDF}$ : 2147.5/1

In: 3152.882+/-2.753  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3188.437+/-2.644  $\chi^2/\text{NDF}$ : 2147.5/1

asym\_at1\_dd\_at2\_dd\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1934.433+/-1323.538  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10670.363+/-5310.851  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

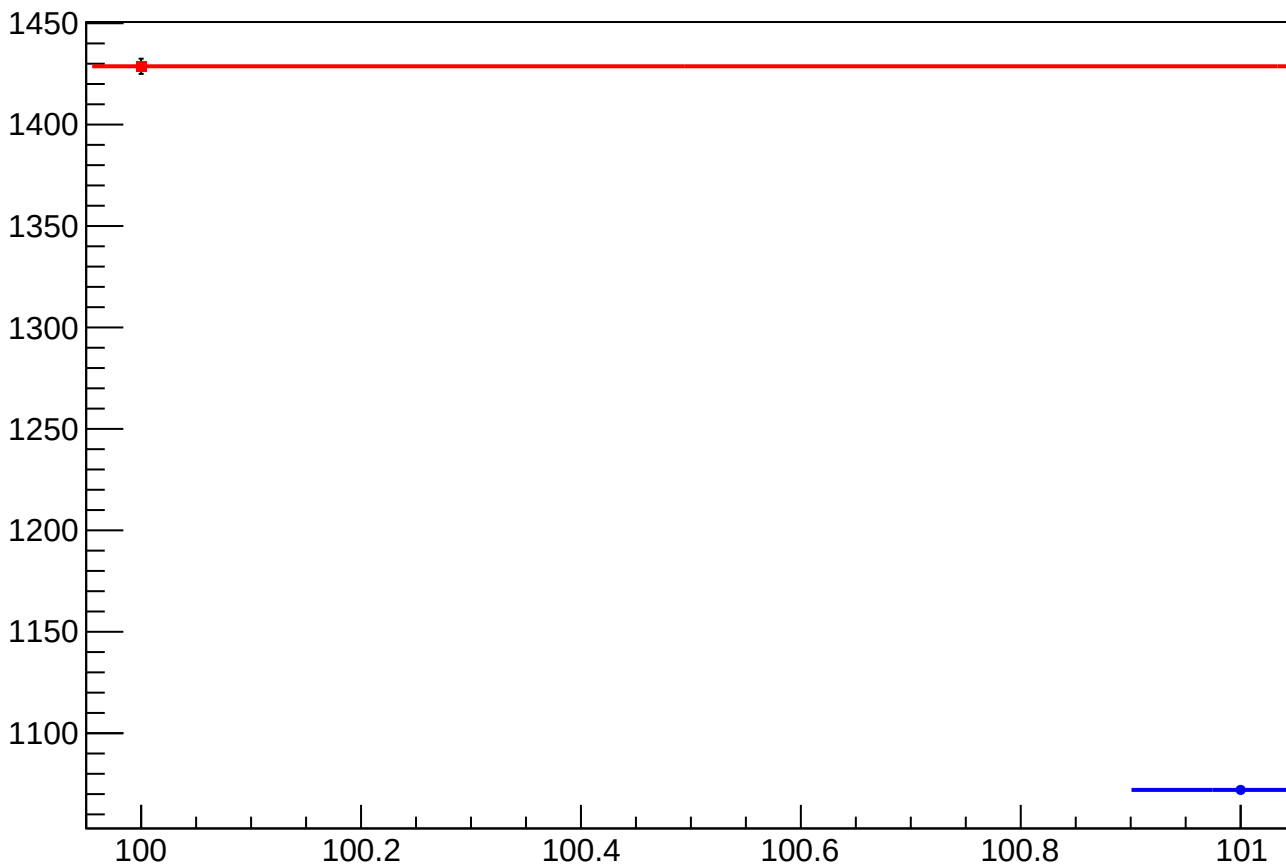
Right: 1197.357+/-1284.258  $\chi^2/\text{NDF}$ : 5.3/1

In: 1934.433+/-1323.538  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1197.357+/-1284.258  $\chi^2/\text{NDF}$ : 5.3/1

asym\_at1\_dd\_at2\_dd\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1072.065+/-0.936  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1428.730+/-3.755  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

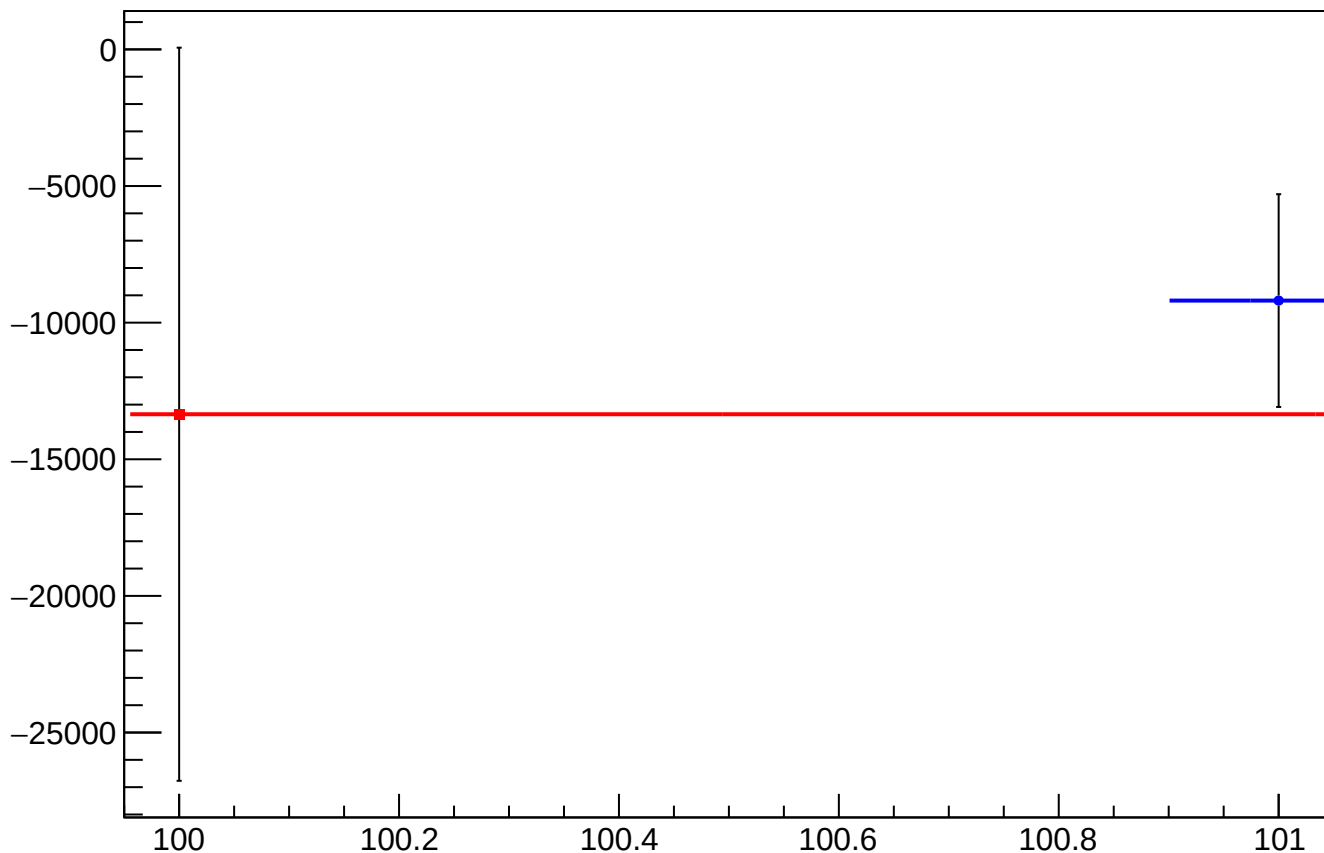
Right: 1092.922+/-0.908  $\chi^2/\text{NDF}$ : 8492.8/1

In: 1072.065+/-0.936  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1092.922+/-0.908  $\chi^2/\text{NDF}$ : 8492.8/1

cor\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -9192.330 $\pm$ 3893.138  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13351.692 $\pm$ 13415.043  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

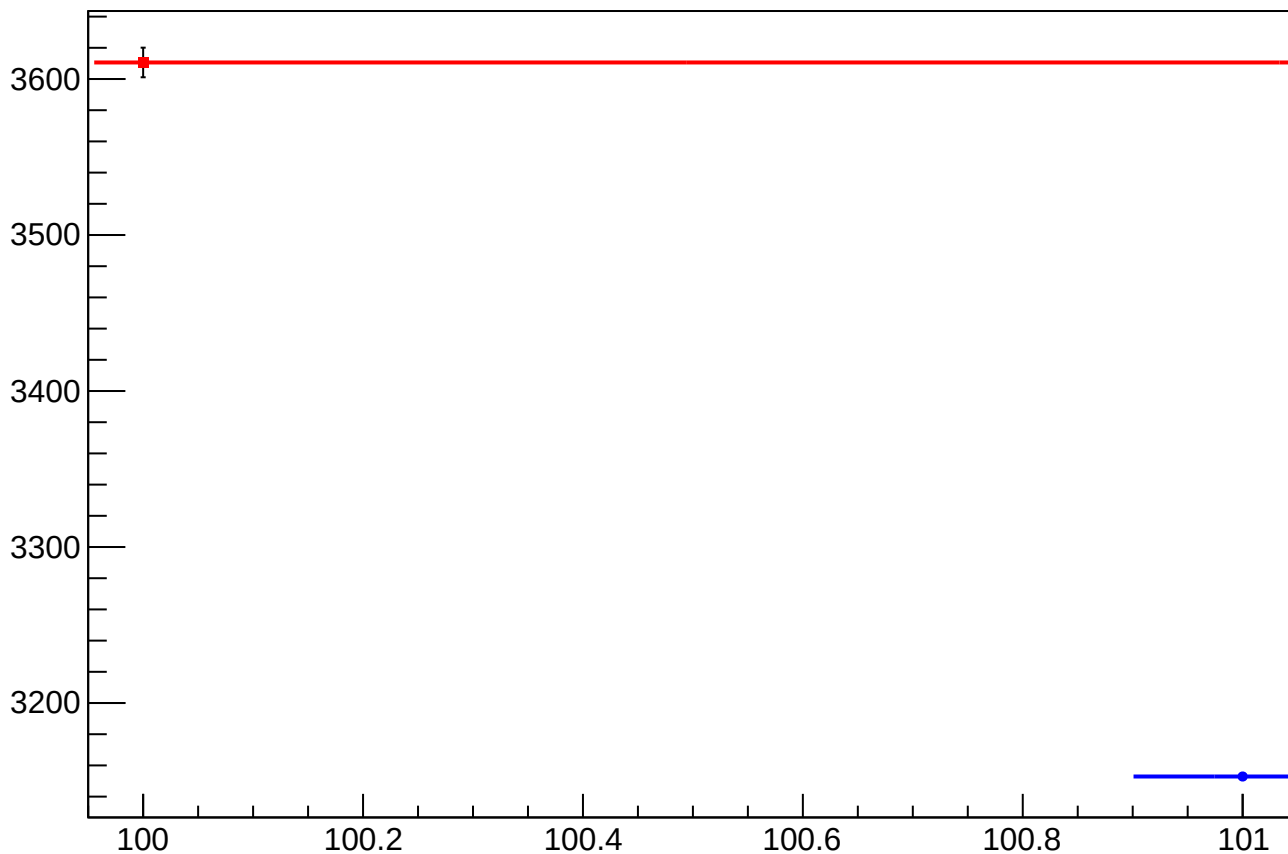
Right: -9515.421 $\pm$ 3738.877  $\chi^2/\text{NDF}$ : 0.1/1

In: -9192.330 $\pm$ 3893.138  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9515.421 $\pm$ 3738.877  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3152.894 $\pm$ 2.753  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3610.603 $\pm$ 9.486  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

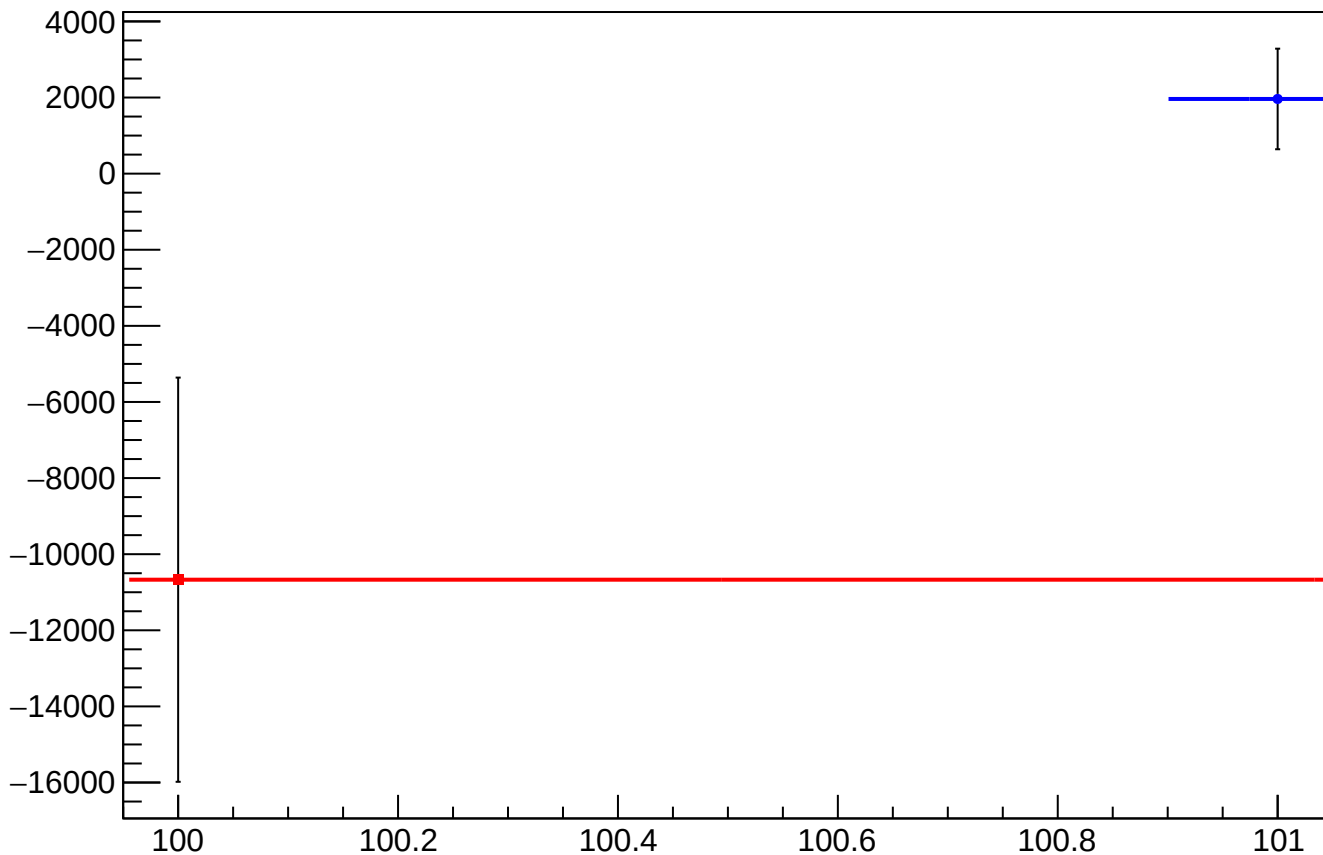
Right: 3188.448 $\pm$ 2.644  $\chi^2$ /NDF: 2147.4/1

In: 3152.894 $\pm$ 2.753  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3188.448 $\pm$ 2.644  $\chi^2$ /NDF: 2147.4/1

asym\_at1\_dd\_at2\_dd\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1962.336+/-1321.461  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10670.349+/-5310.830  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

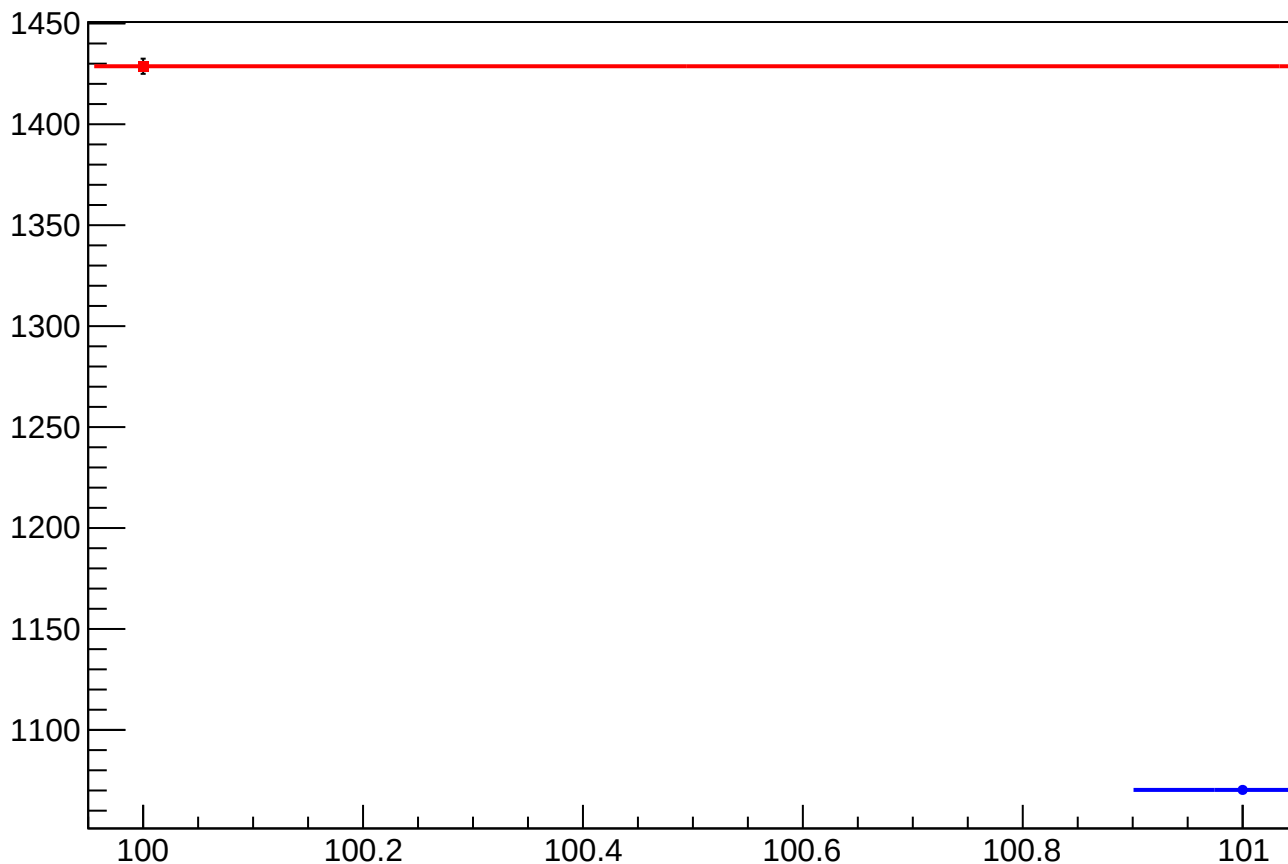
Right: 1225.807+/-1282.359  $\chi^2/\text{NDF}$ : 5.3/1

In: 1962.336+/-1321.461  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1225.807+/-1282.359  $\chi^2/\text{NDF}$ : 5.3/1

asym\_at1\_dd\_at2\_dd\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1070.284 $\pm$ 0.934  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1428.725 $\pm$ 3.755  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1091.182 $\pm$ 0.907  $\chi^2$ /NDF: 8579.3/1

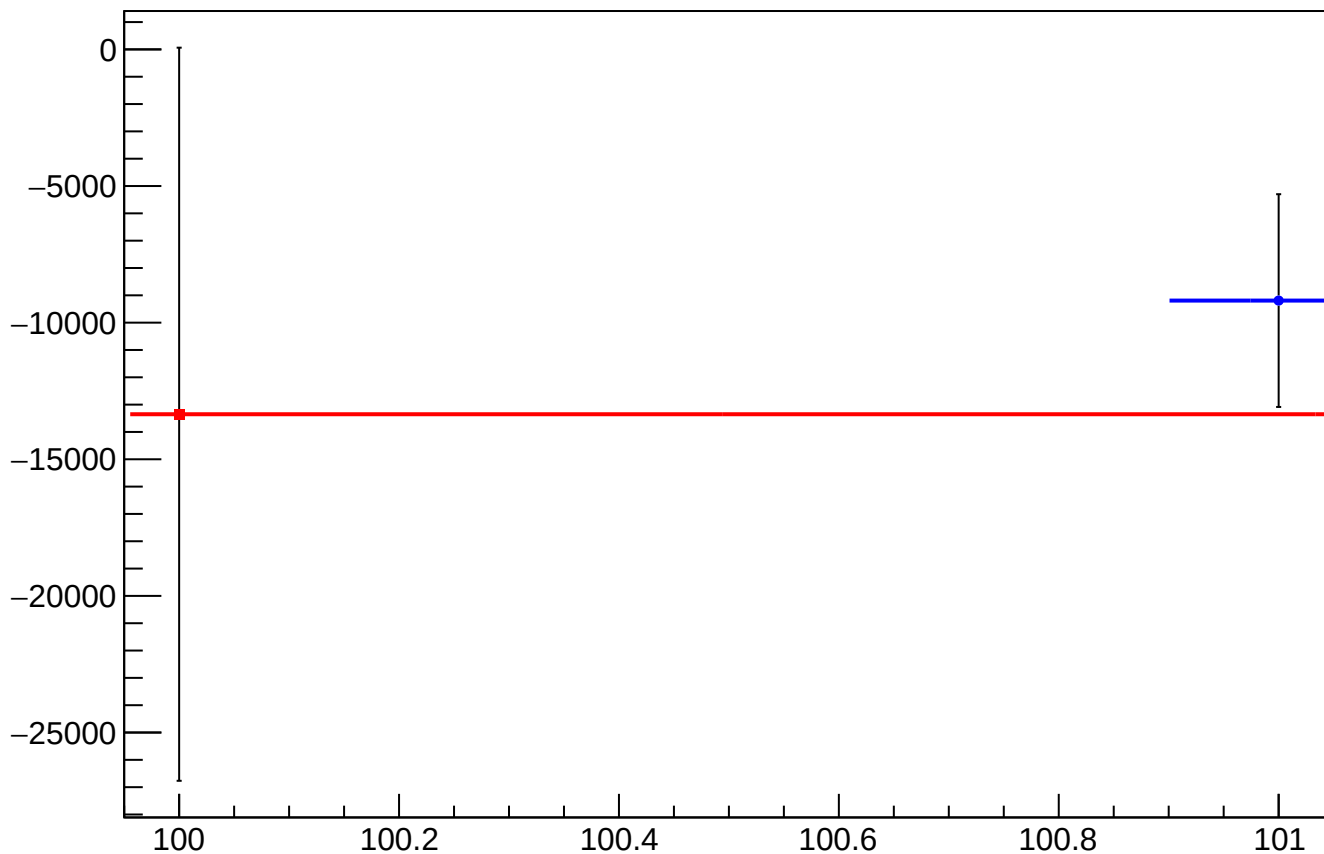
In: 1070.284 $\pm$ 0.934  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1091.182 $\pm$ 0.907  $\chi^2$ /NDF: 8579.3/1



eigen\_cor\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -9192.330+/-3893.138  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13351.692+/-13415.043  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

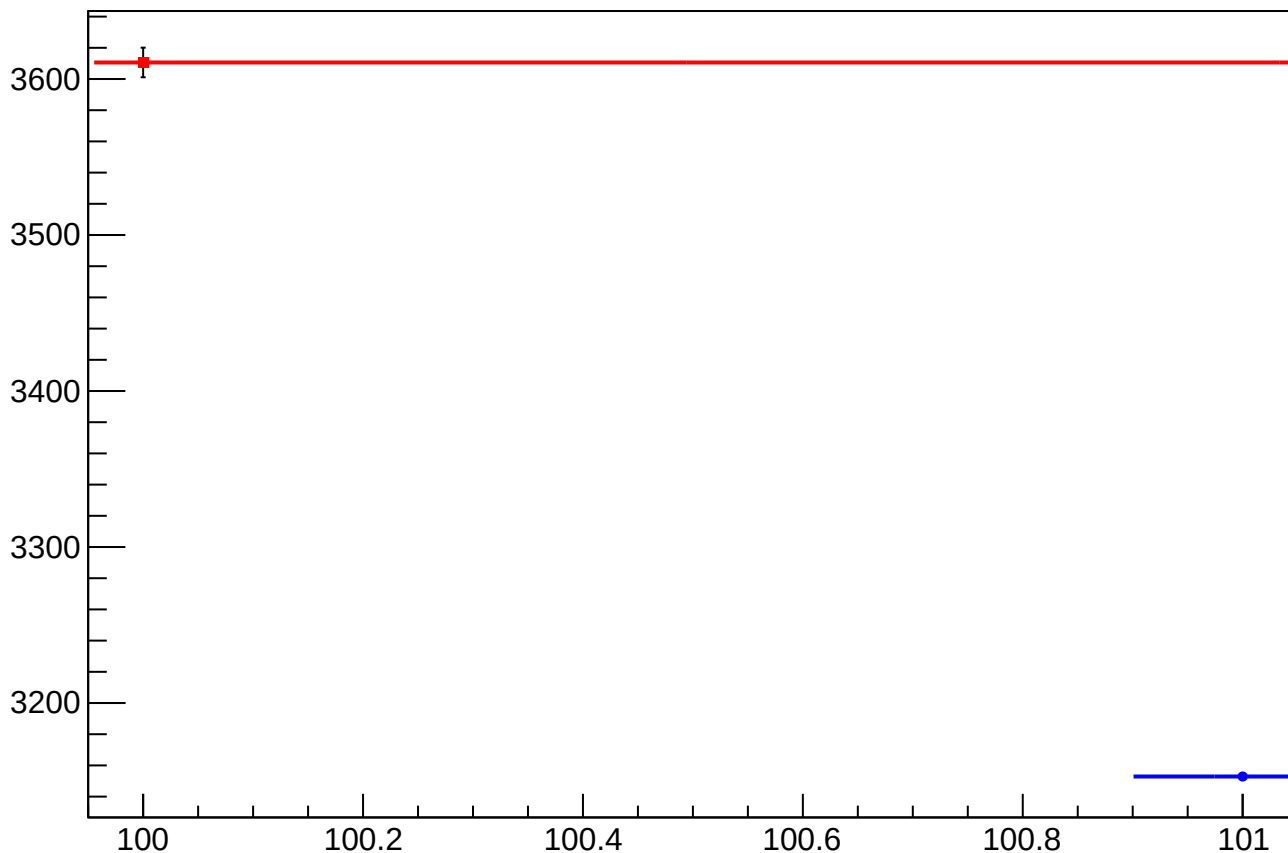
Right: -9515.421+/-3738.877  $\chi^2/\text{NDF}$ : 0.1/1

In: -9192.330+/-3893.138  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9515.421+/-3738.877  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3152.894 $\pm$ 2.753  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3610.603 $\pm$ 9.486  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

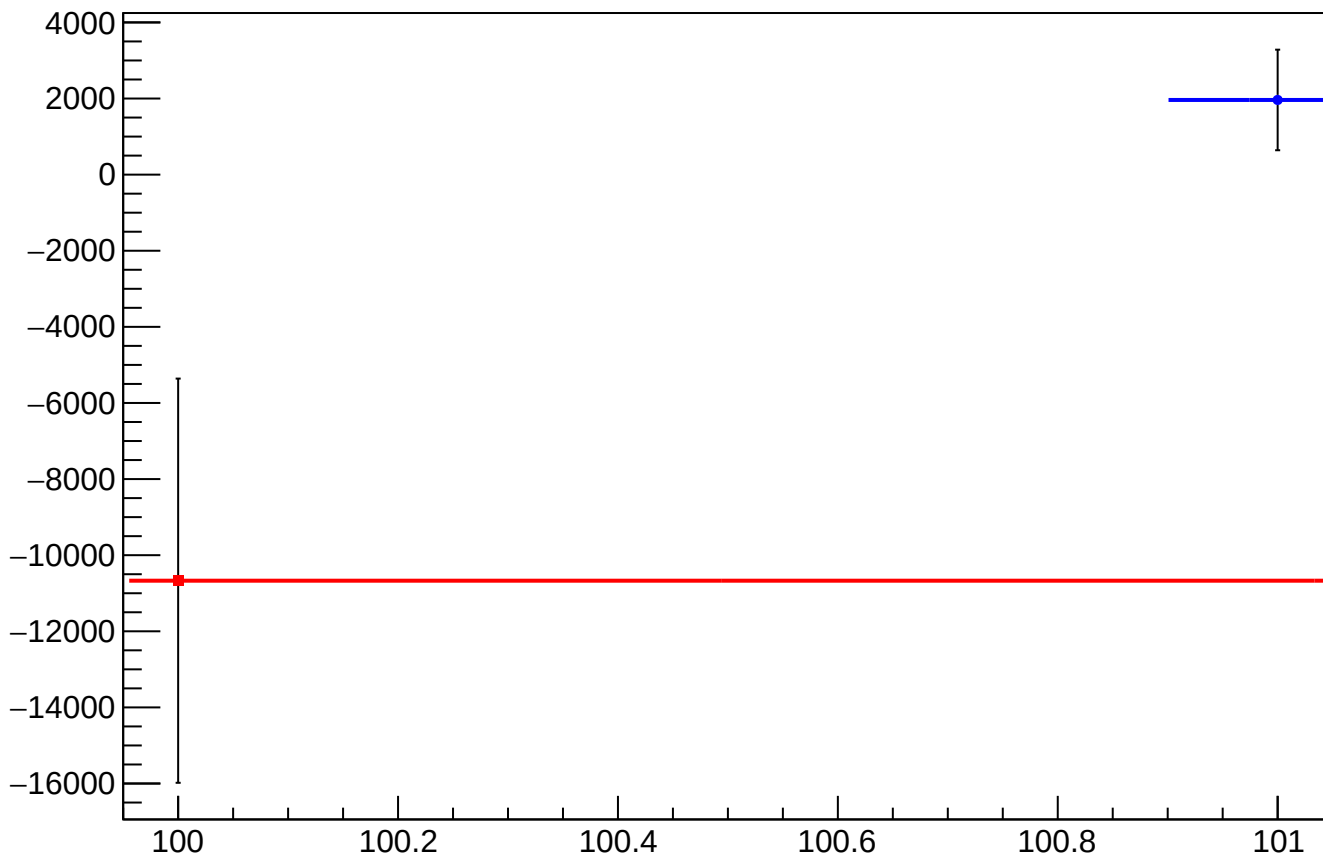
Right: 3188.448 $\pm$ 2.644  $\chi^2/\text{NDF}$ : 2147.4/1

In: 3152.894 $\pm$ 2.753  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3188.448 $\pm$ 2.644  $\chi^2/\text{NDF}$ : 2147.4/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1962.336+/-1321.461  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10670.349+/-5310.830  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

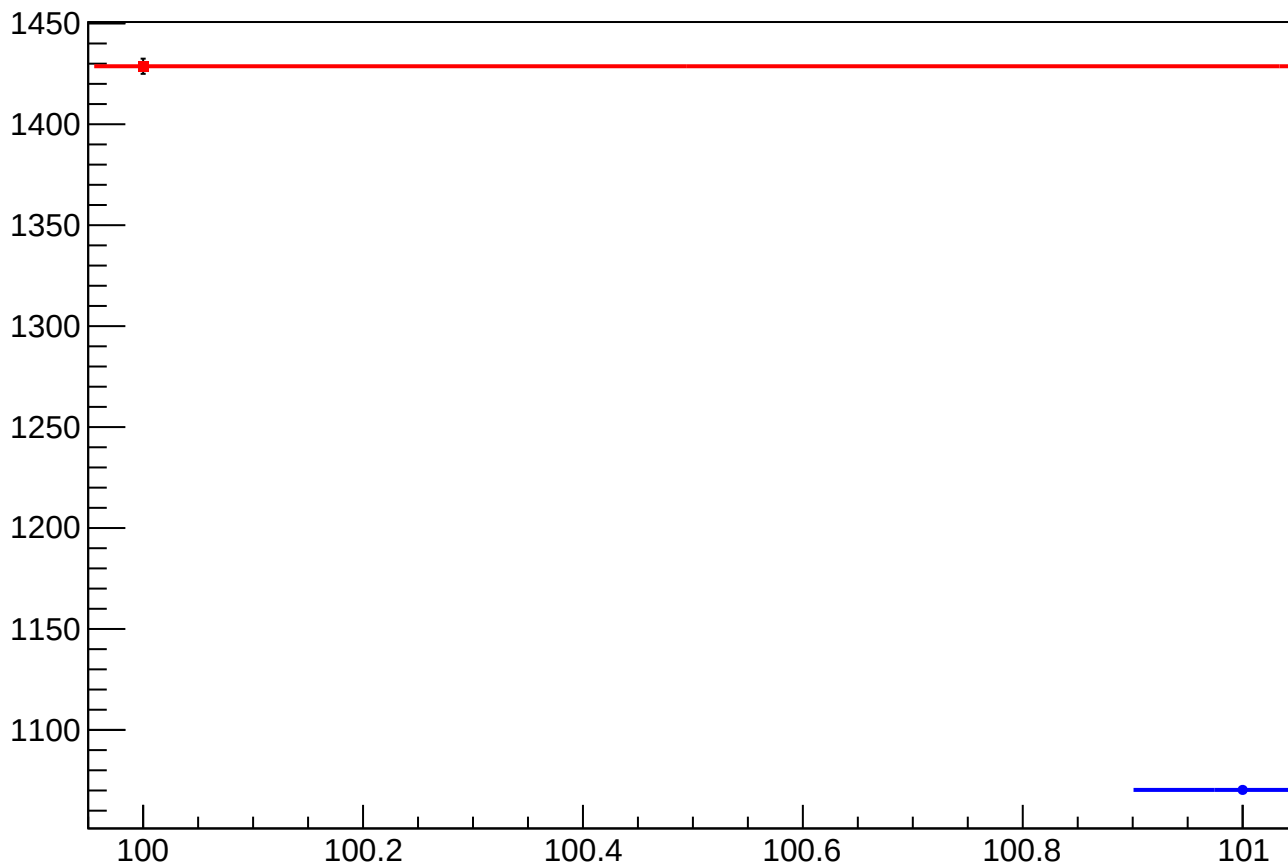
Right: 1225.807+/-1282.359  $\chi^2/\text{NDF}$ : 5.3/1

In: 1962.336+/-1321.461  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1225.807+/-1282.359  $\chi^2/\text{NDF}$ : 5.3/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1070.284 $\pm$ 0.934  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1428.725 $\pm$ 3.755  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

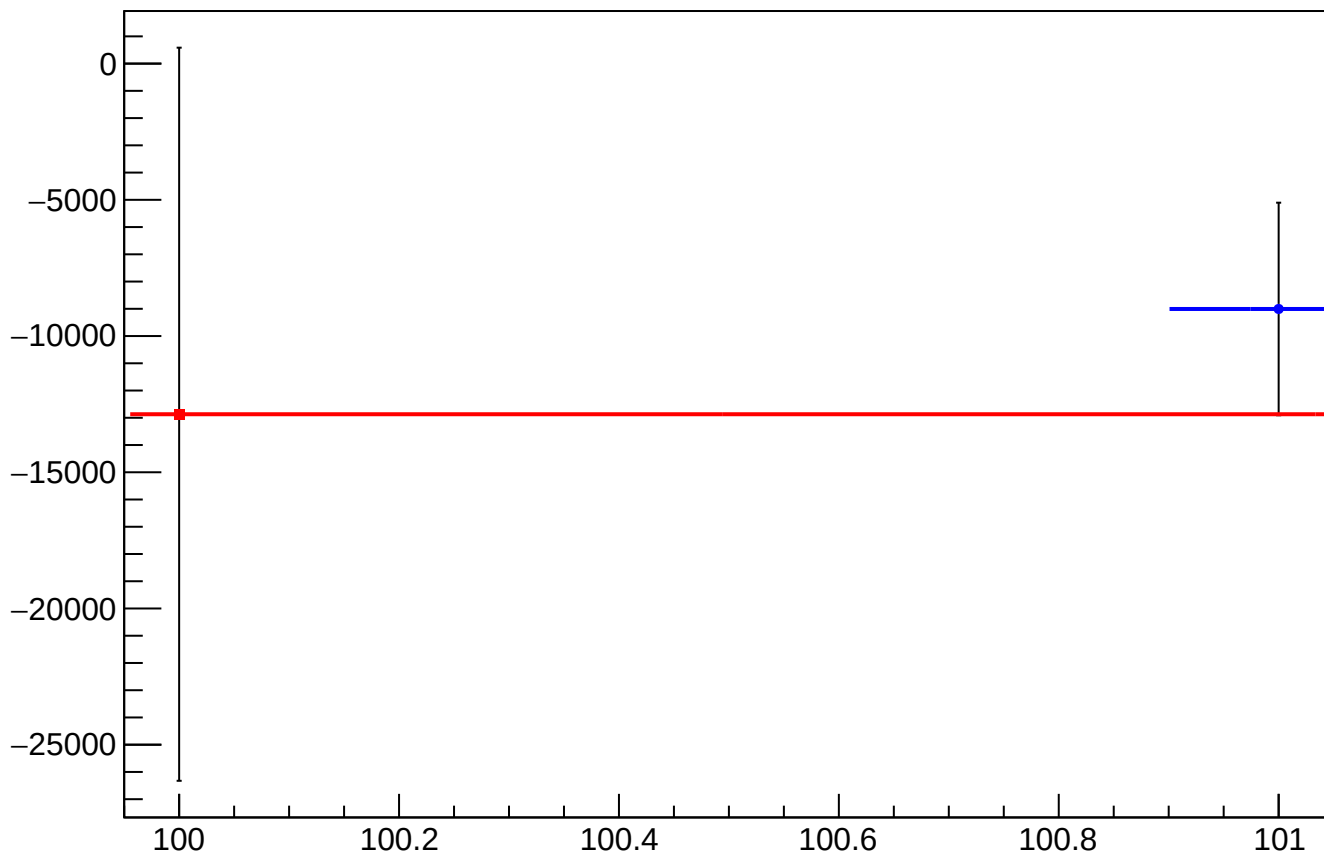
Right: 1091.182 $\pm$ 0.907  $\chi^2$ /NDF: 8579.3/1

In: 1070.284 $\pm$ 0.934  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1091.182 $\pm$ 0.907  $\chi^2$ /NDF: 8579.3/1

dit\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -9006.465+/-3901.378  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12870.003+/-13454.813  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

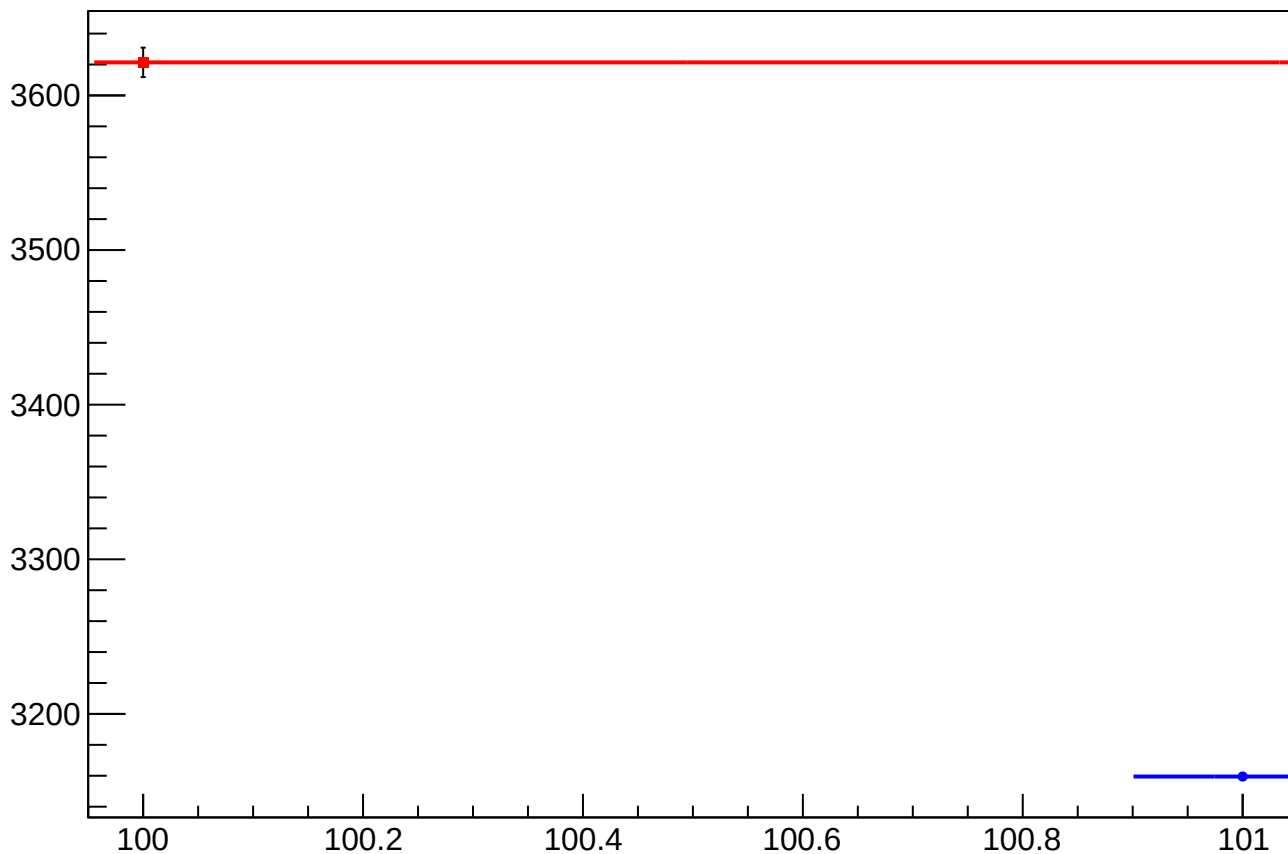
Right: -9306.109+/-3747.036  $\chi^2/\text{NDF}$ : 0.1/1

In: -9006.465+/-3901.378  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9306.109+/-3747.036  $\chi^2/\text{NDF}$ : 0.1/1

dit\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3159.502 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3621.376 $\pm$ 9.514  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

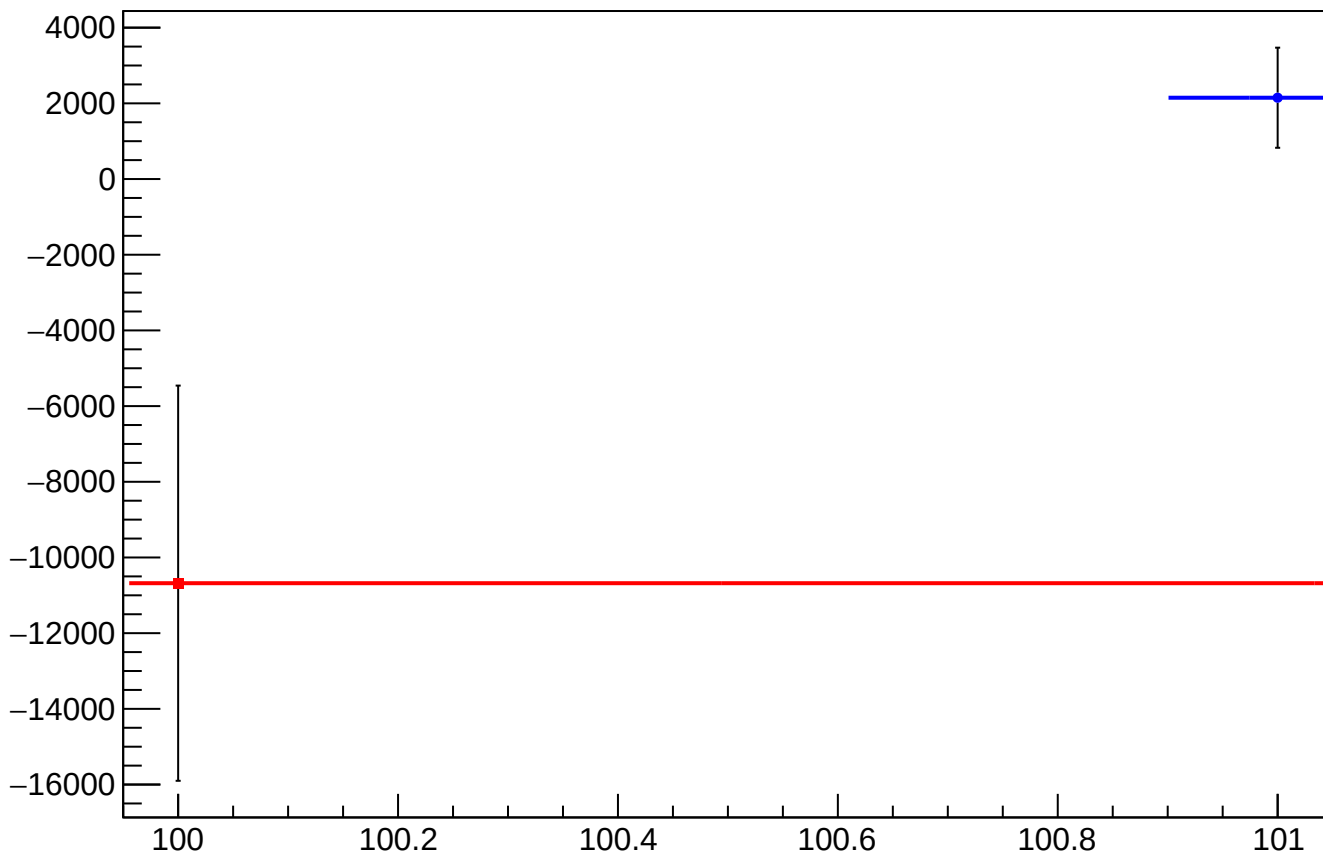
Right: 3195.323 $\pm$ 2.650  $\chi^2$ /NDF: 2174.0/1

In: 3159.502 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3195.323 $\pm$ 2.650  $\chi^2$ /NDF: 2174.0/1

asym\_at1\_dd\_at2\_dd\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2148.585 $\pm$ 1322.623  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -10679.580 $\pm$ 5221.449  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

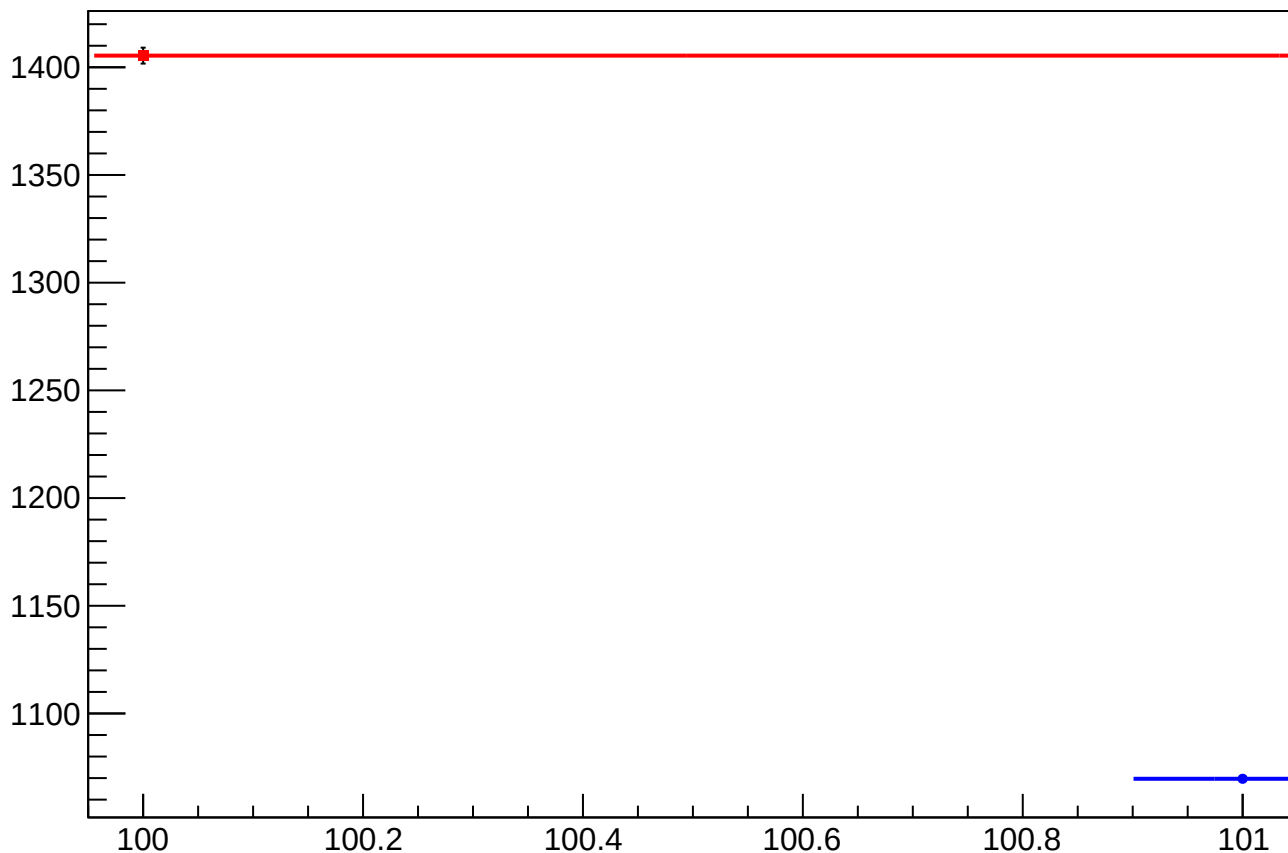
Right: 1375.110 $\pm$ 1282.130  $\chi^2$ /NDF: 5.7/1

In: 2148.585 $\pm$ 1322.623  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1375.110 $\pm$ 1282.130  $\chi^2$ /NDF: 5.7/1

asym\_at1\_dd\_at2\_dd\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1069.680 $\pm$ 0.935  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1405.412 $\pm$ 3.692  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1089.923 $\pm$ 0.907  $\chi^2$ /NDF: 7770.1/1

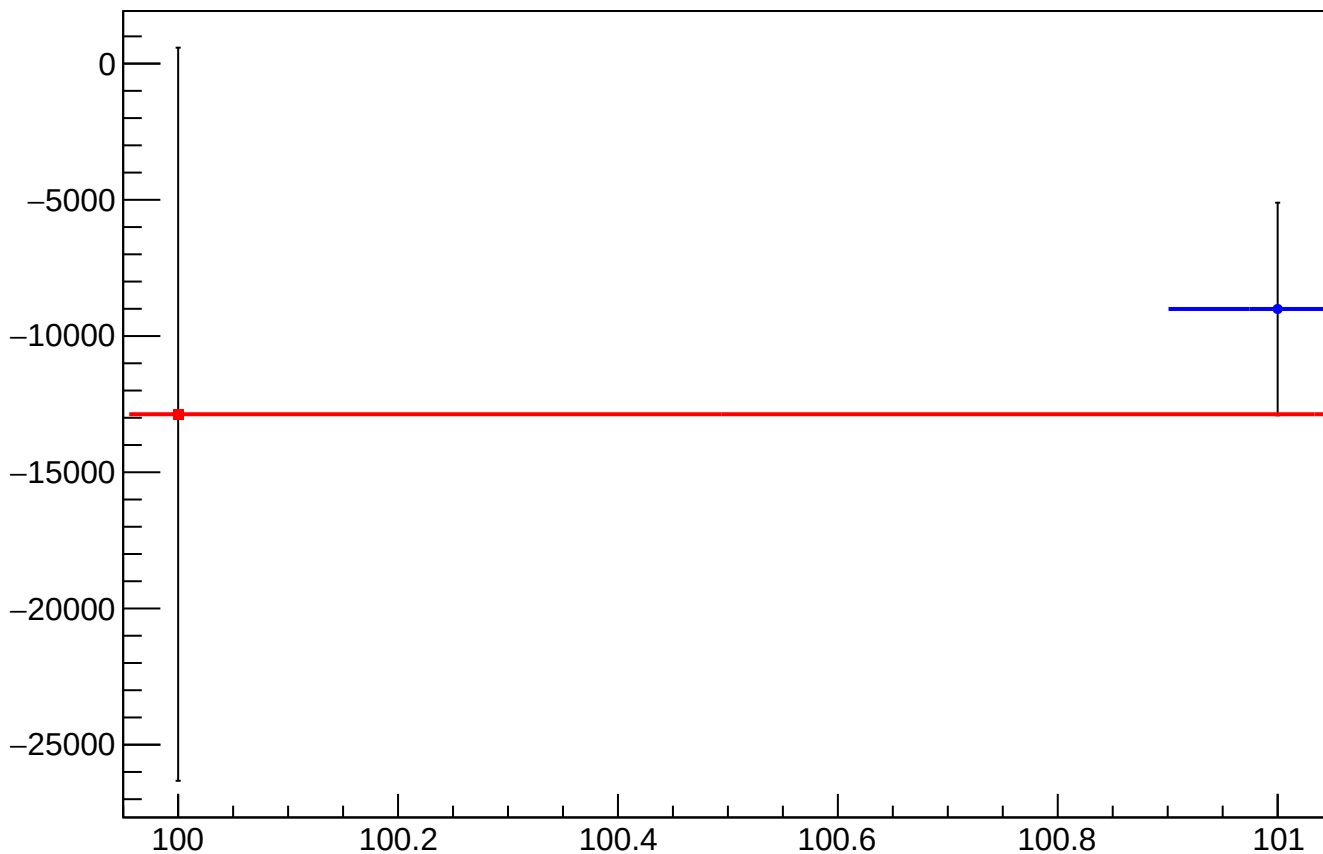
In: 1069.680 $\pm$ 0.935  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1089.923 $\pm$ 0.907  $\chi^2$ /NDF: 7770.1/1



eigen\_dit\_asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -9006.489+/-3901.378  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12869.904+/-13454.813  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

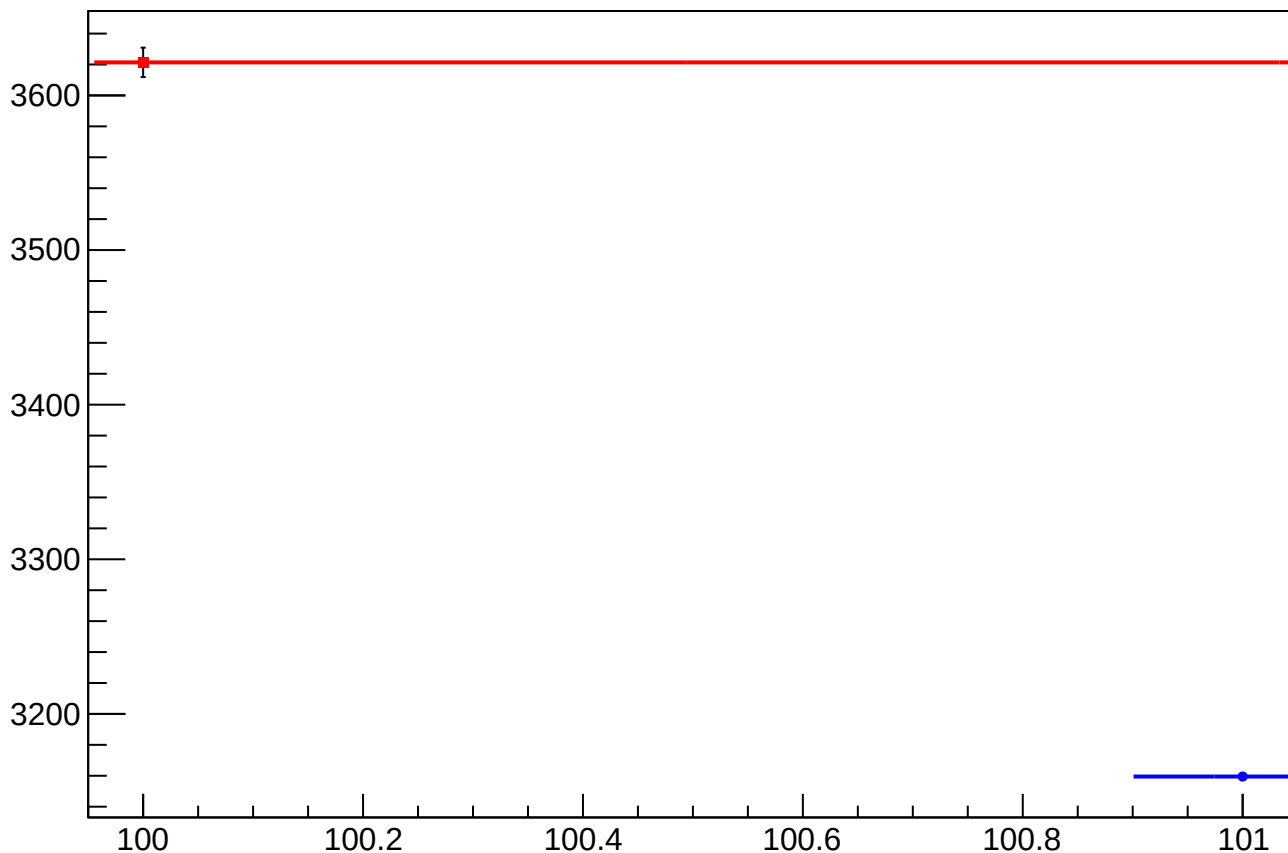
Right: -9306.124+/-3747.036  $\chi^2/\text{NDF}$ : 0.1/1

In: -9006.489+/-3901.378  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9306.124+/-3747.036  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_dit\_asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3159.502 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3621.376 $\pm$ 9.514  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

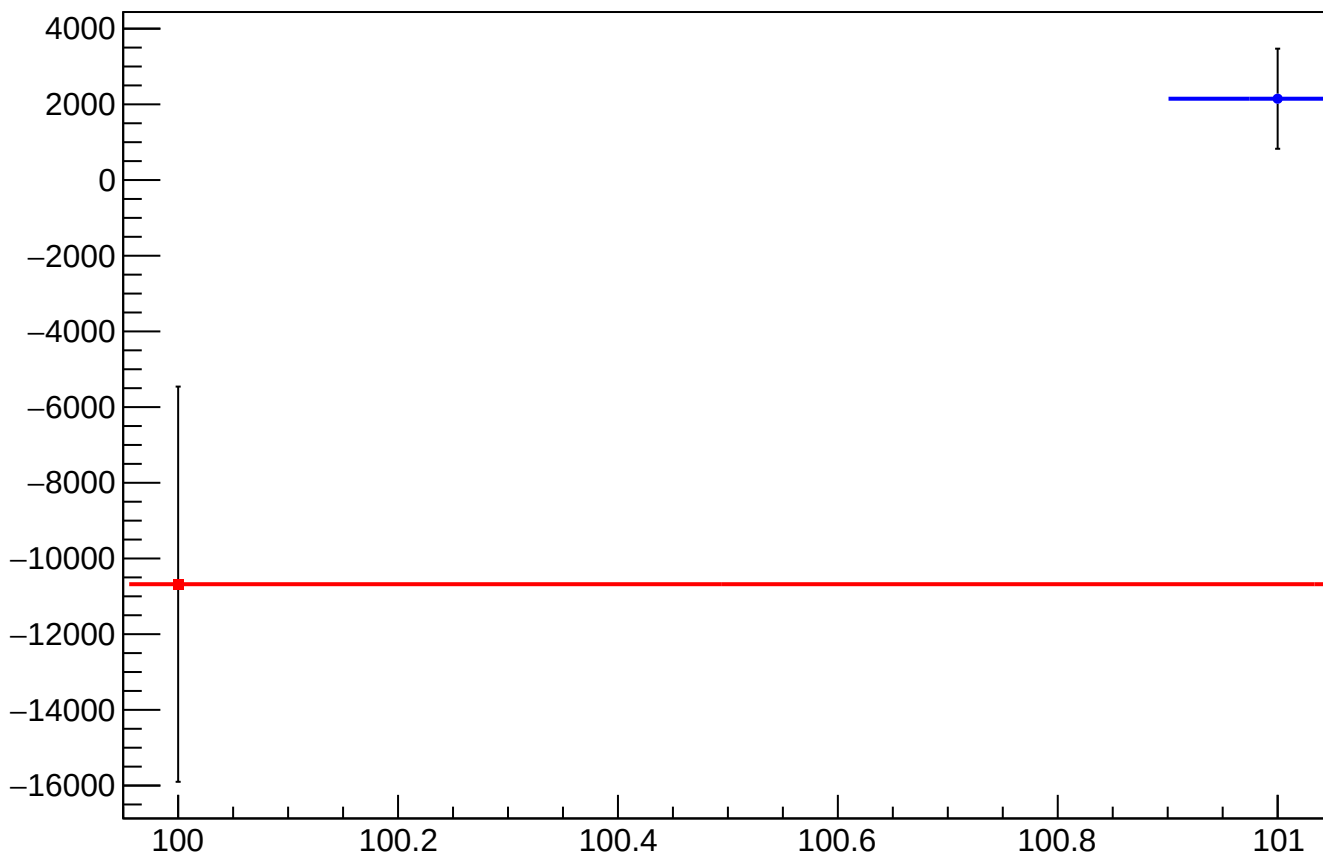
Right: 3195.323 $\pm$ 2.650  $\chi^2$ /NDF: 2174.0/1

In: 3159.502 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3195.323 $\pm$ 2.650  $\chi^2$ /NDF: 2174.0/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2148.567+/-1322.613  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -10679.481+/-5221.402  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

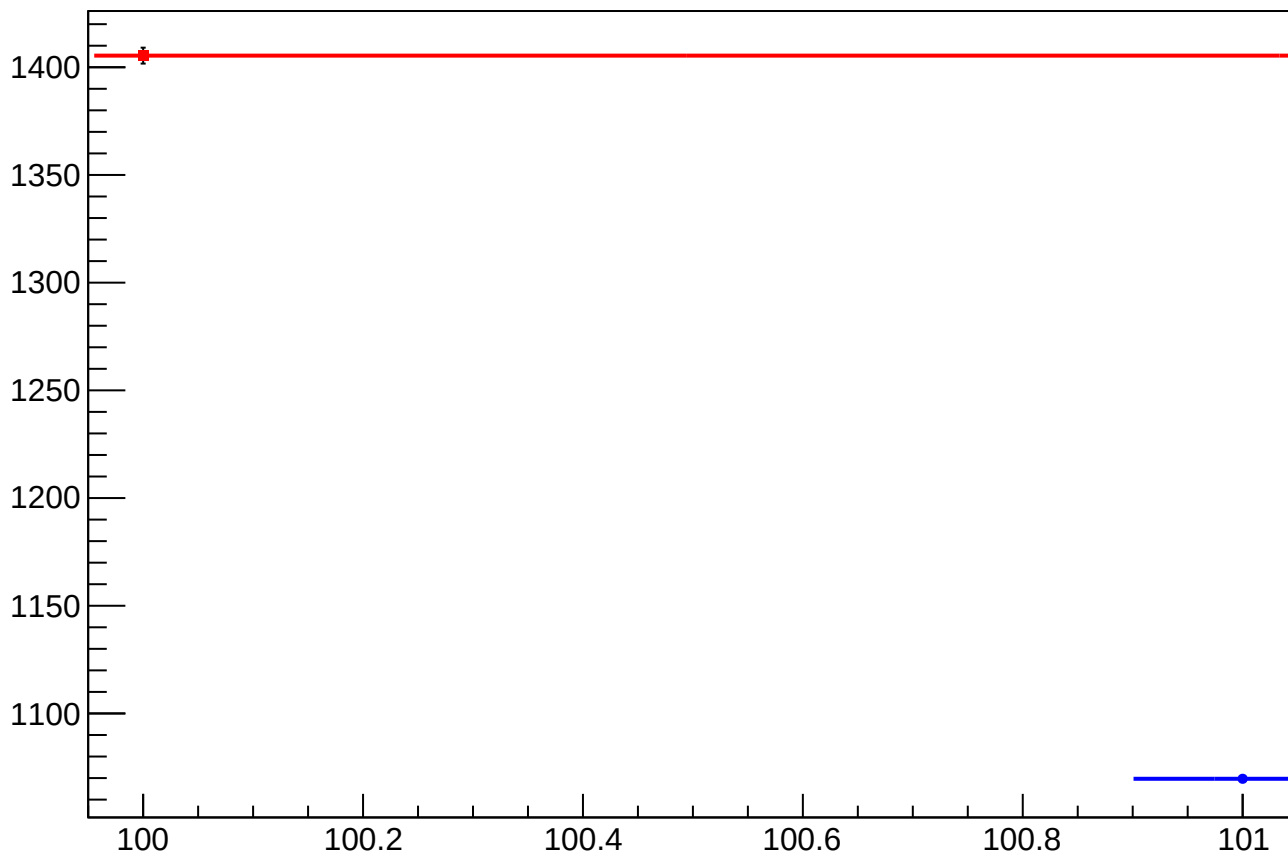
Right: 1375.097+/-1282.120  $\chi^2/\text{NDF}$ : 5.7/1

In: 2148.567+/-1322.613  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 1375.097+/-1282.120  $\chi^2/\text{NDF}$ : 5.7/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1069.671 $\pm$ 0.935  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1405.399 $\pm$ 3.692  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

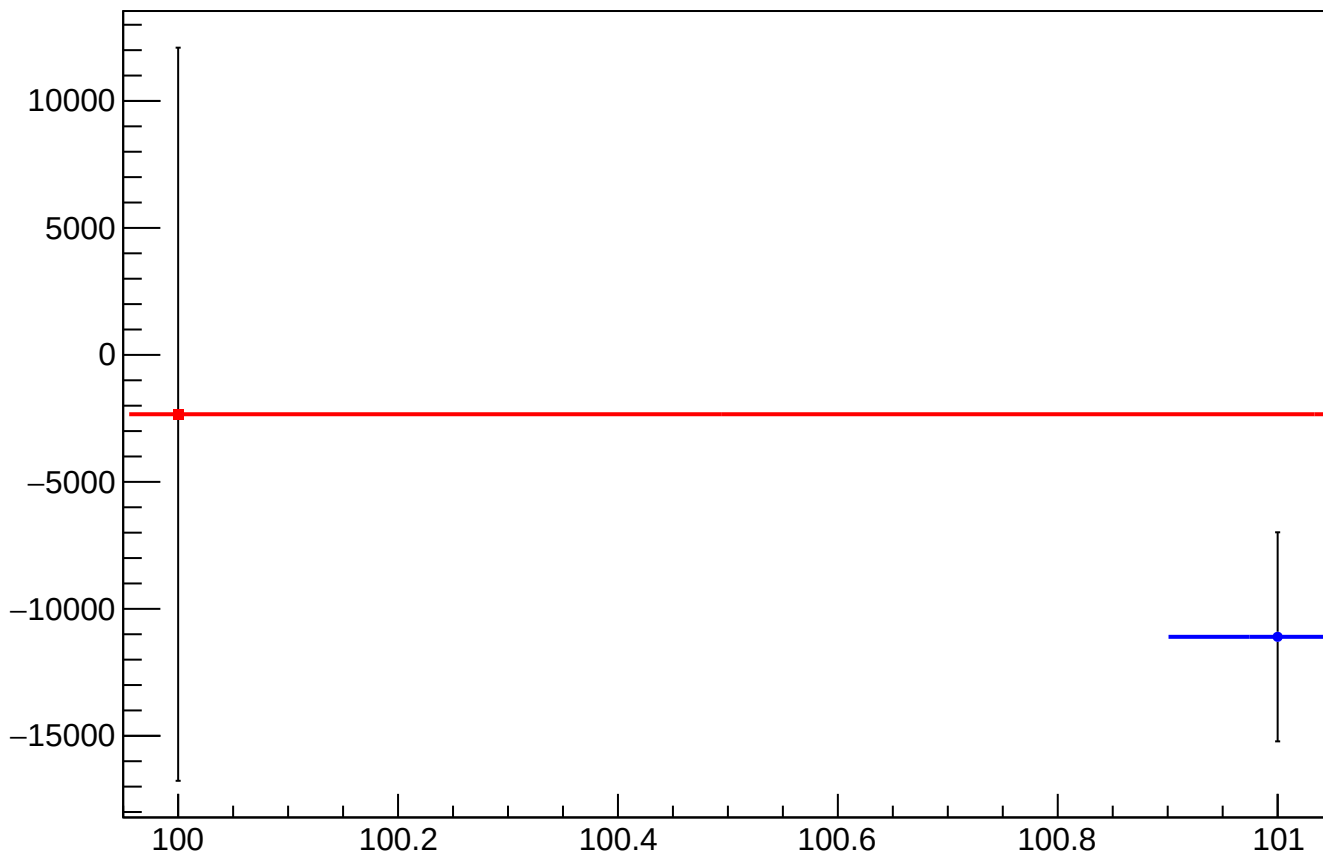
Right: 1089.914 $\pm$ 0.907  $\chi^2$ /NDF: 7770.0/1

In: 1069.671 $\pm$ 0.935  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1089.914 $\pm$ 0.907  $\chi^2$ /NDF: 7770.0/1

asym\_at1\_dd\_at2\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -11101.605+/-4116.362  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2336.449+/-14434.392  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

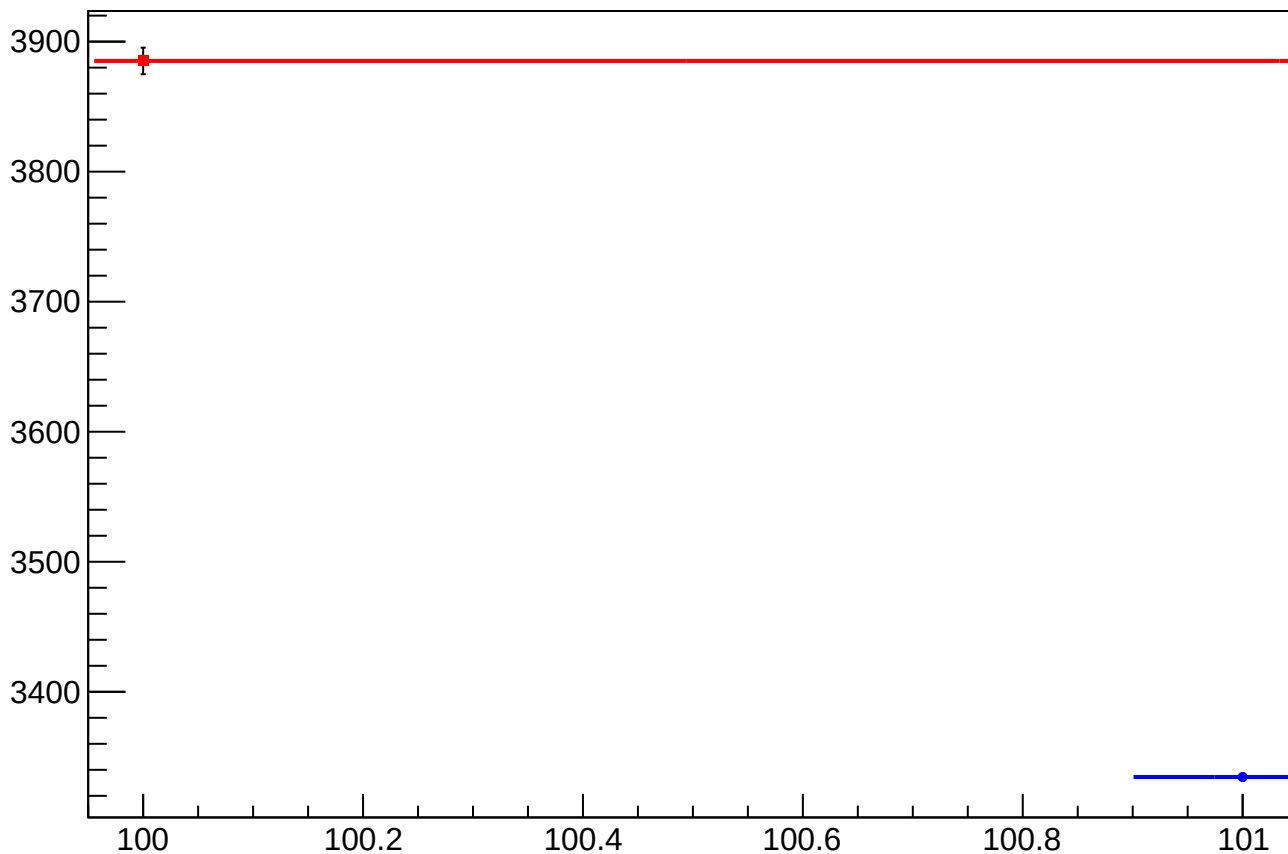
Right: -10442.381+/-3958.542  $\chi^2/\text{NDF}$ : 0.3/1

In: -11101.605+/-4116.362  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10442.381+/-3958.542  $\chi^2/\text{NDF}$ : 0.3/1

asym\_at1\_dd\_at2\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3334.470+/-2.911  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3885.140+/-10.207  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

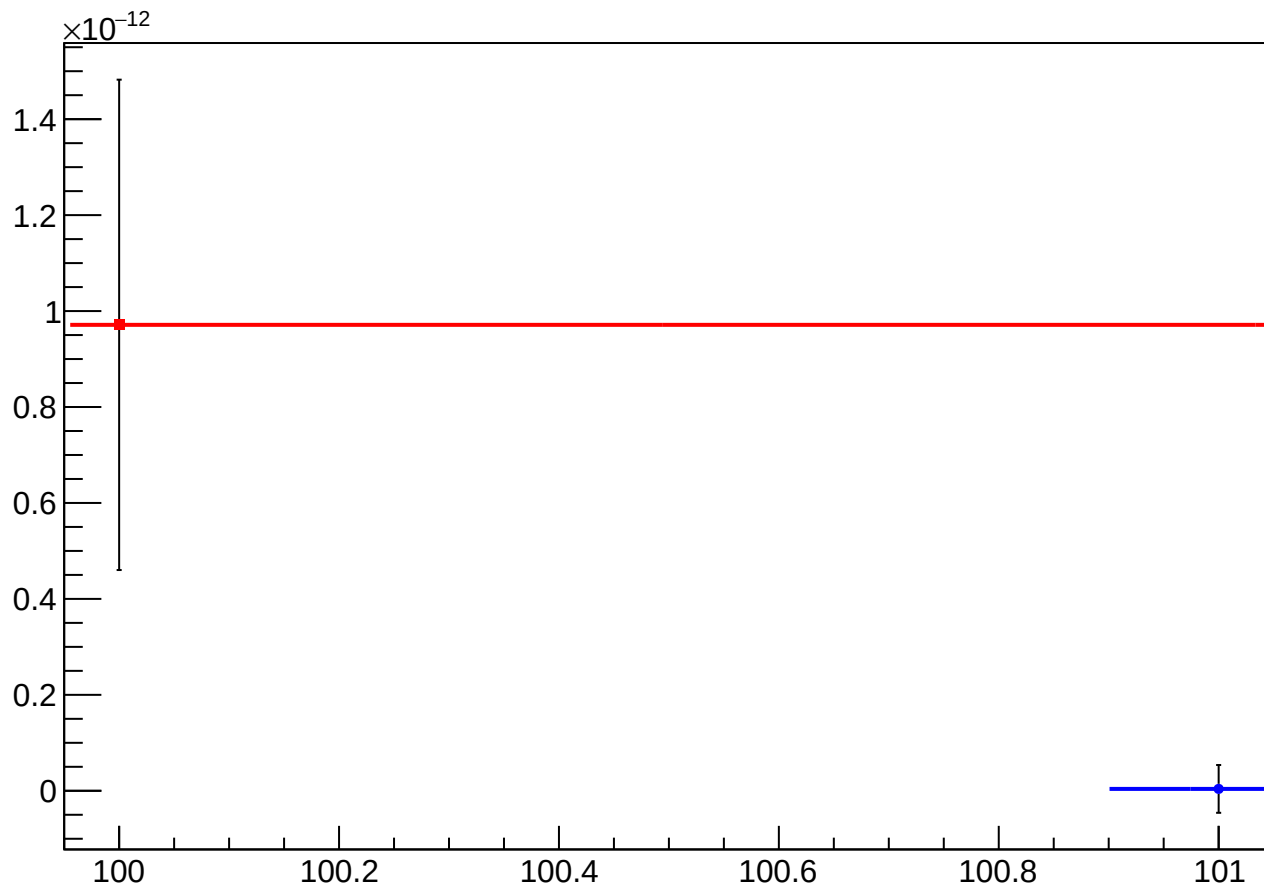
Right: 3375.886+/-2.799  $\chi^2/\text{NDF}$ : 2691.9/1

In: 3334.470+/-2.911  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3375.886+/-2.799  $\chi^2/\text{NDF}$ : 2691.9/1

asym\_at1\_dd\_at2\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

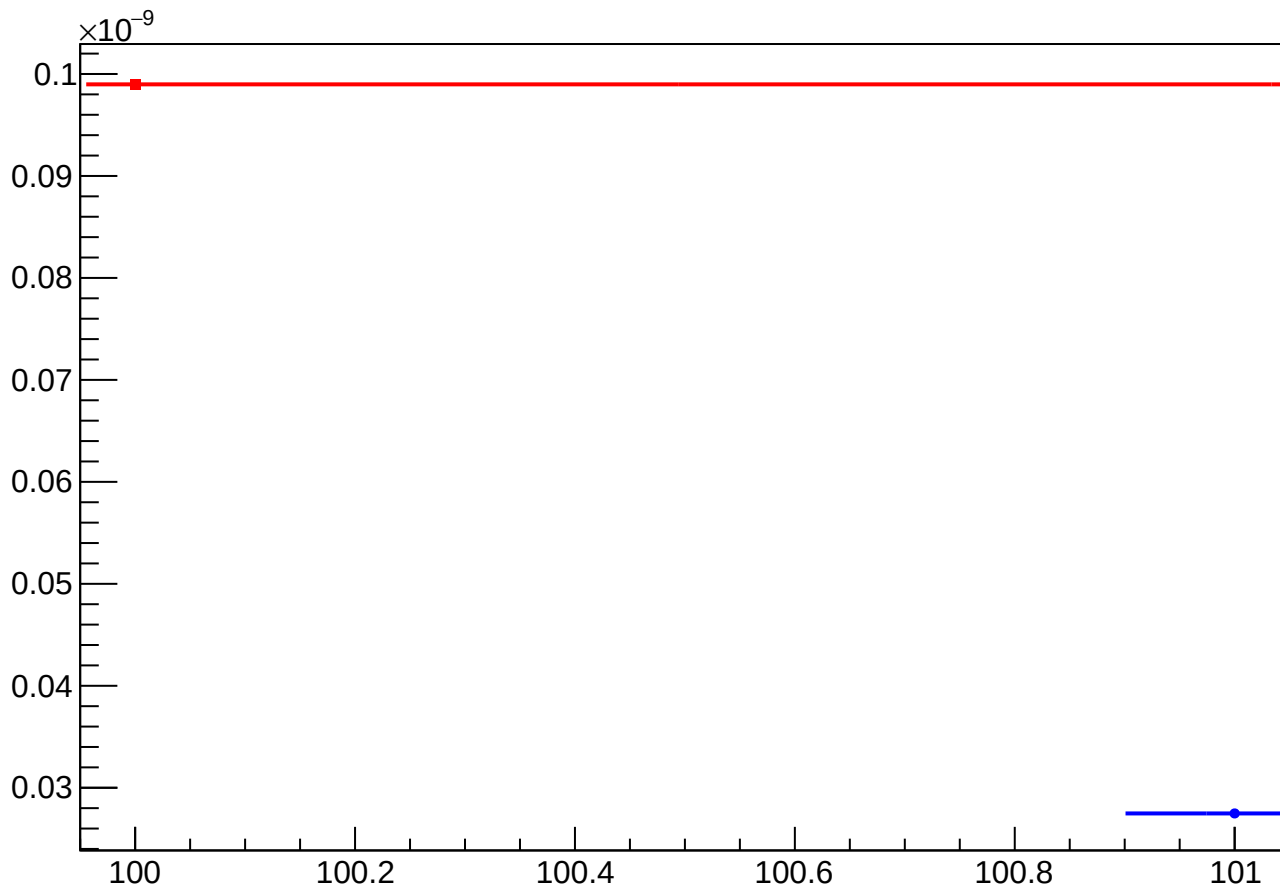
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.5/1

asym\_at1\_dd\_at2\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 38779.0/1

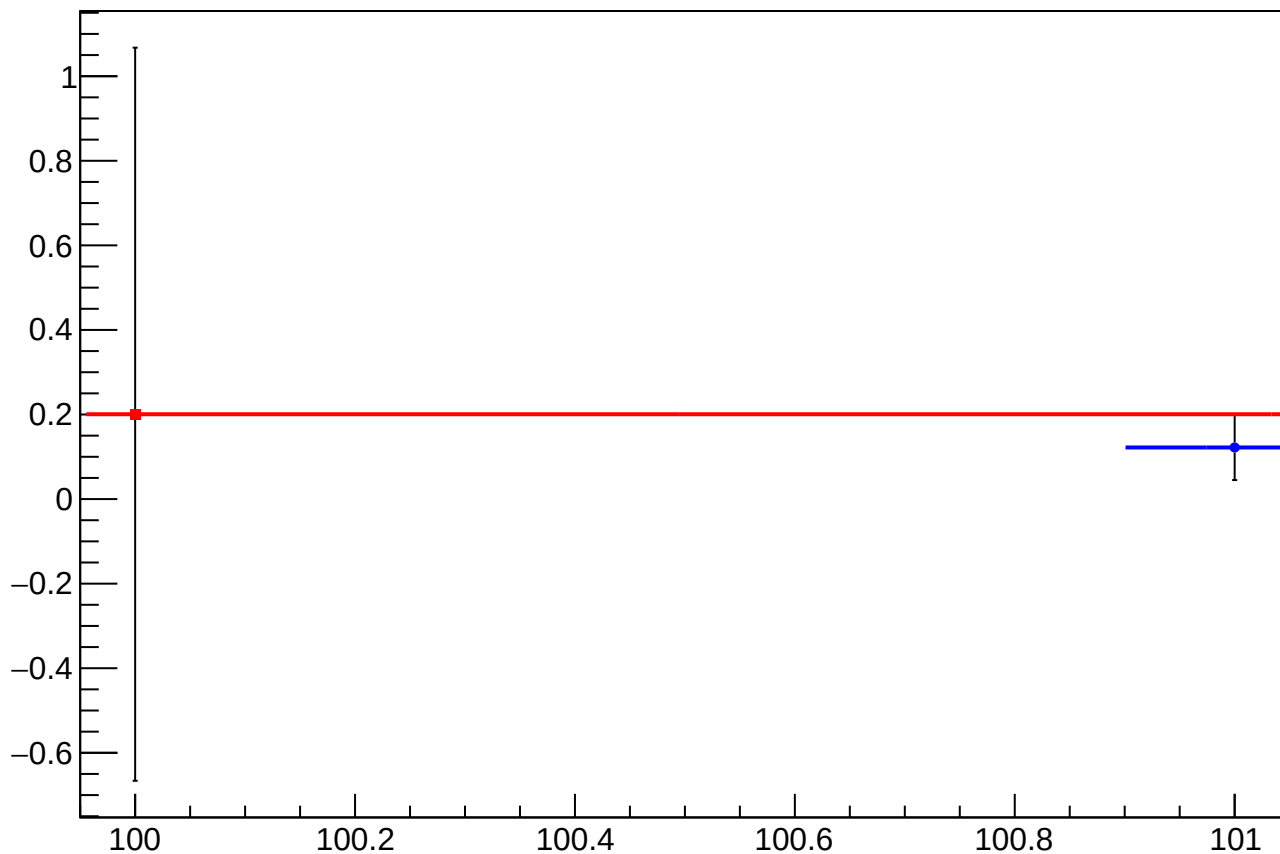
In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 38779.0/1



asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.201+/-0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

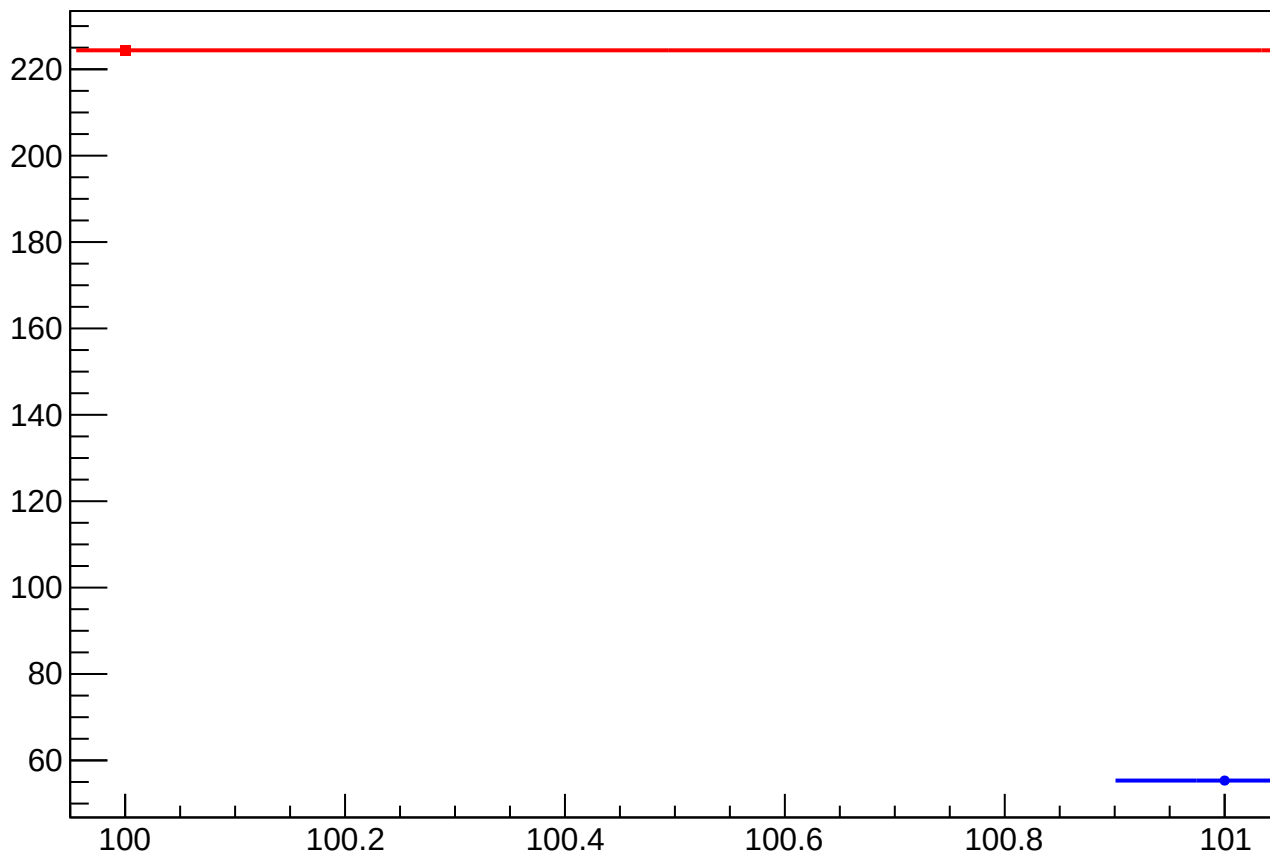
Right: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 55.327+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 224.388+/-0.613  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

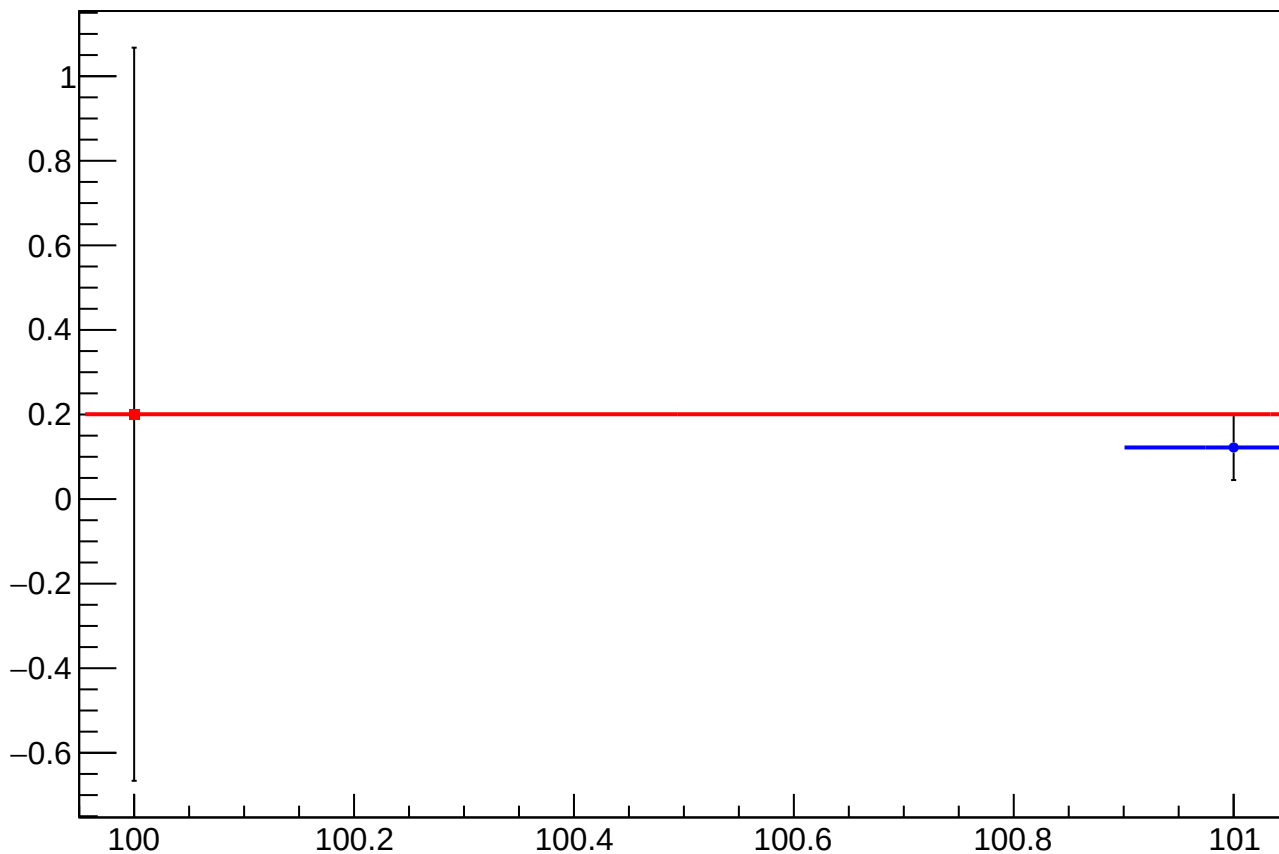
Right: 56.651+/-0.054  $\chi^2/\text{NDF}$ : 75476.8/1

In: 55.327+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.651+/-0.054  $\chi^2/\text{NDF}$ : 75476.8/1

asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.201+/-0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

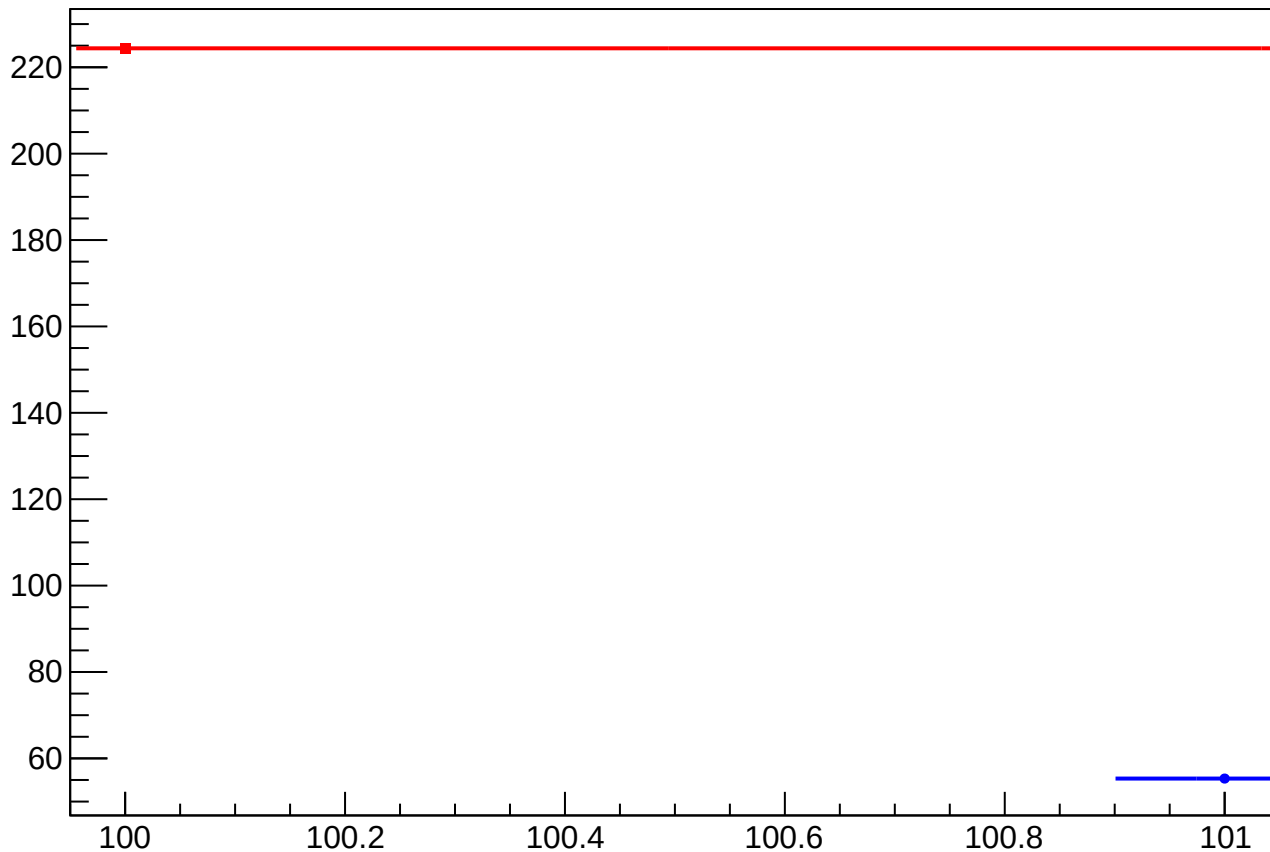
Right: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

asym\_at1\_dd\_at2\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 55.327 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 224.388 $\pm$ 0.613  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

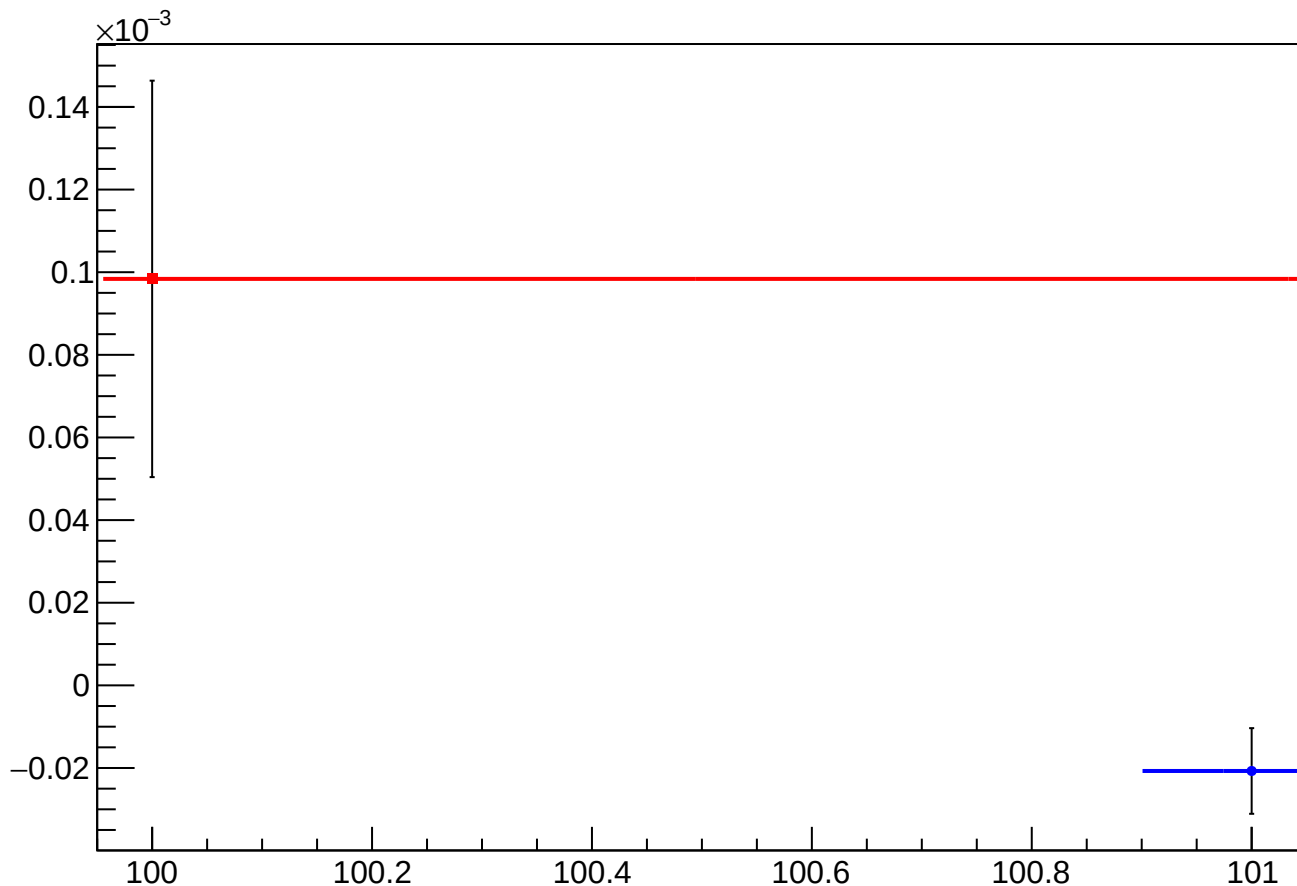
Right: 56.651 $\pm$ 0.054  $\chi^2$ /NDF: 75476.8/1

In: 55.327 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.651 $\pm$ 0.054  $\chi^2$ /NDF: 75476.8/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

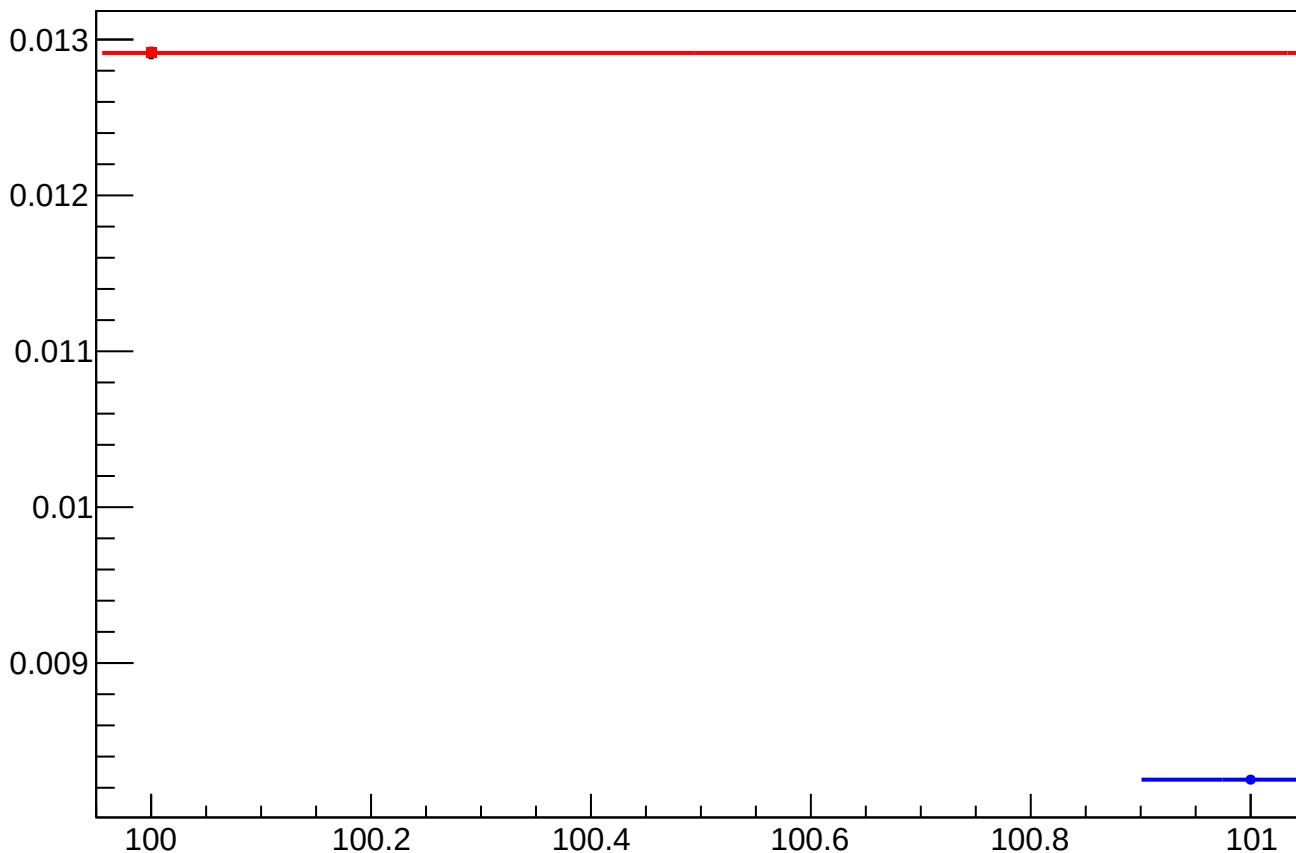
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.9/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

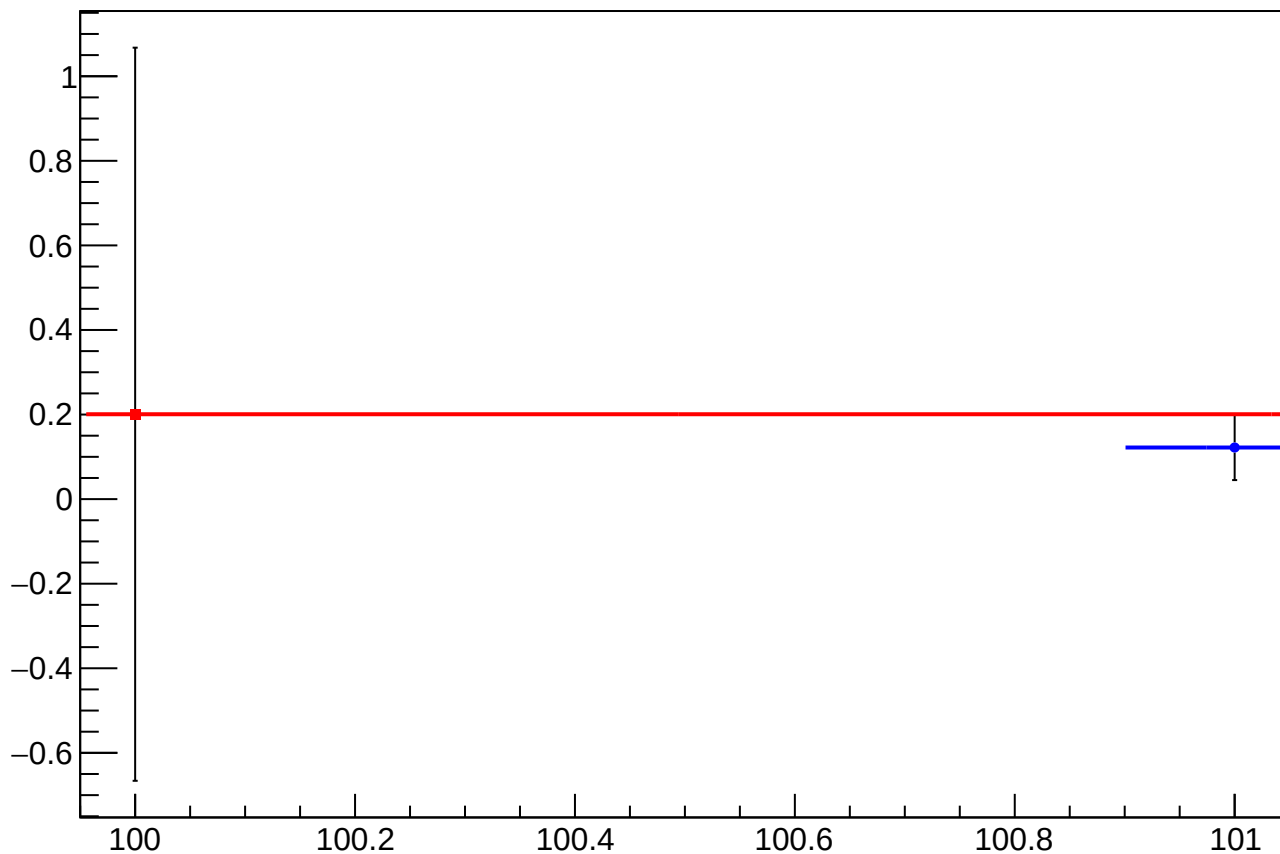
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 18041.7/1

In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 18041.7/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.201+/-0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

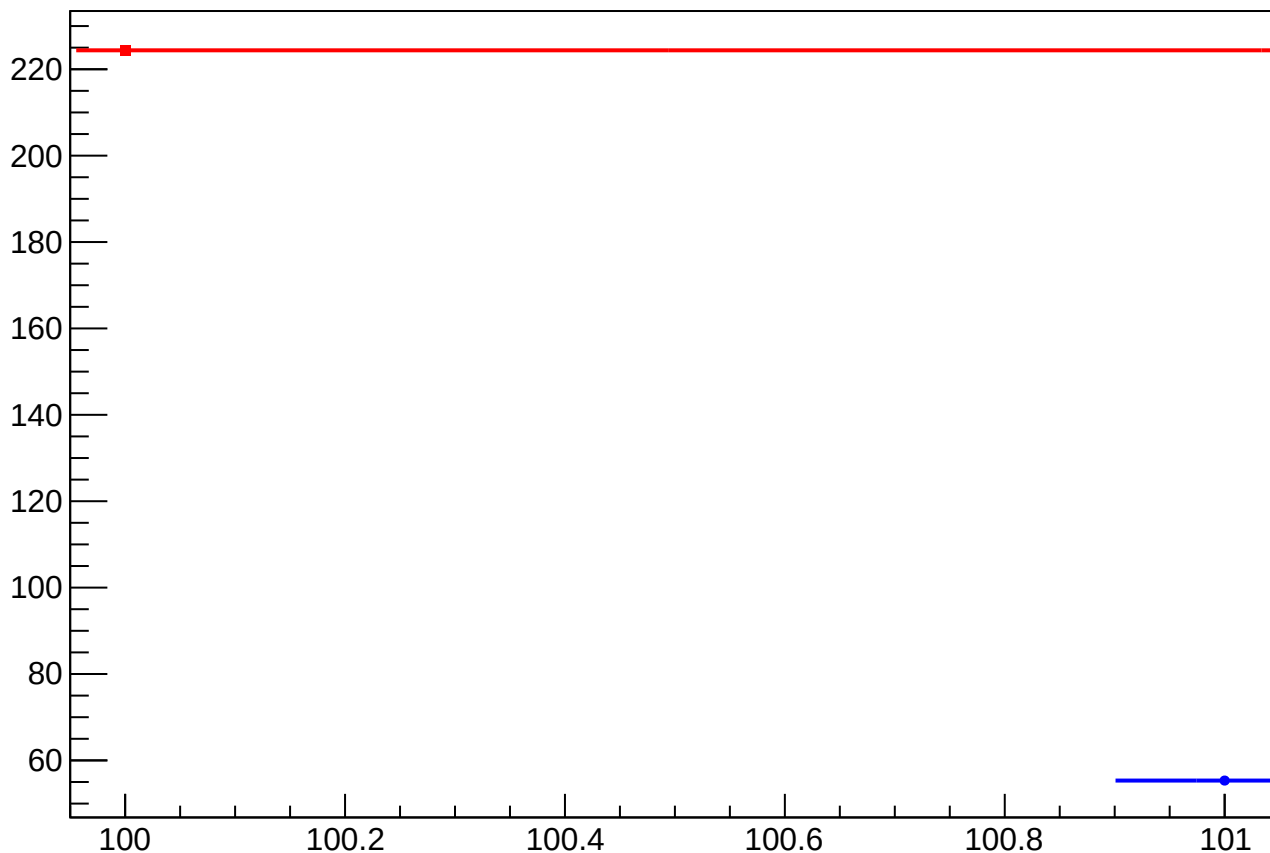
Right: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 55.331+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 224.383+/-0.613  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 56.655+/-0.054  $\chi^2/\text{NDF}$ : 75471.9/1

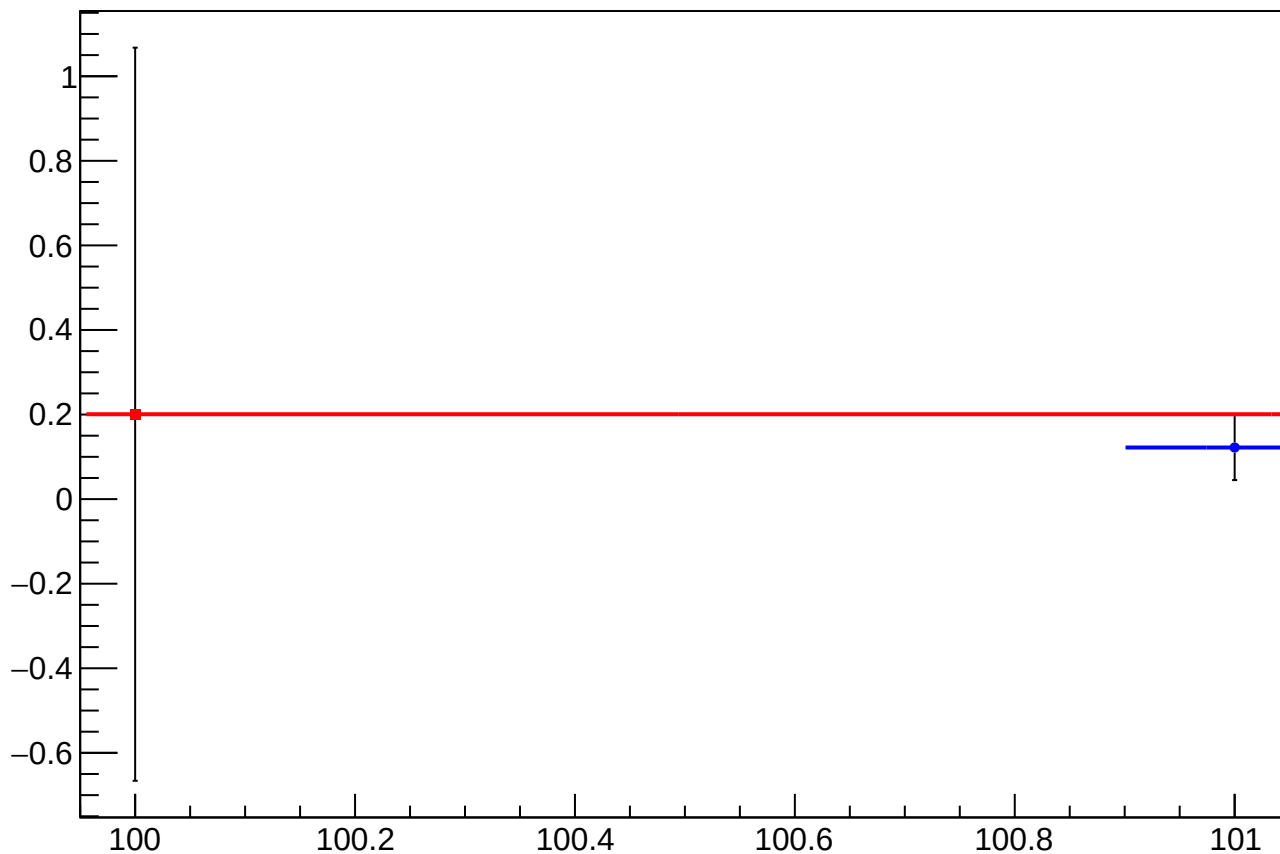
In: 55.331+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 56.655+/-0.054  $\chi^2/\text{NDF}$ : 75471.9/1



asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.201+/-0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

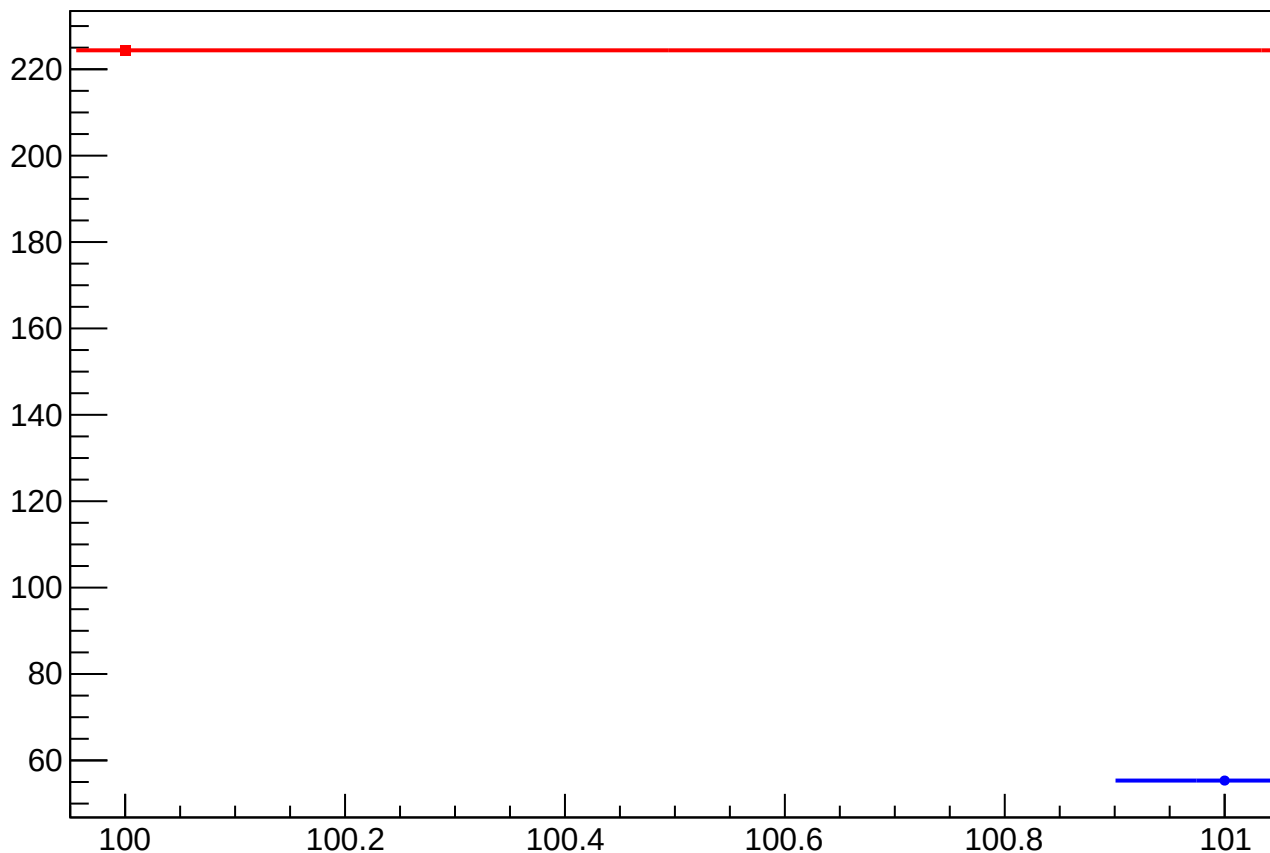
Right: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.122+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.077  $\chi^2/\text{NDF}$ : 0.0/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 55.331+/-0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 224.383+/-0.613  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

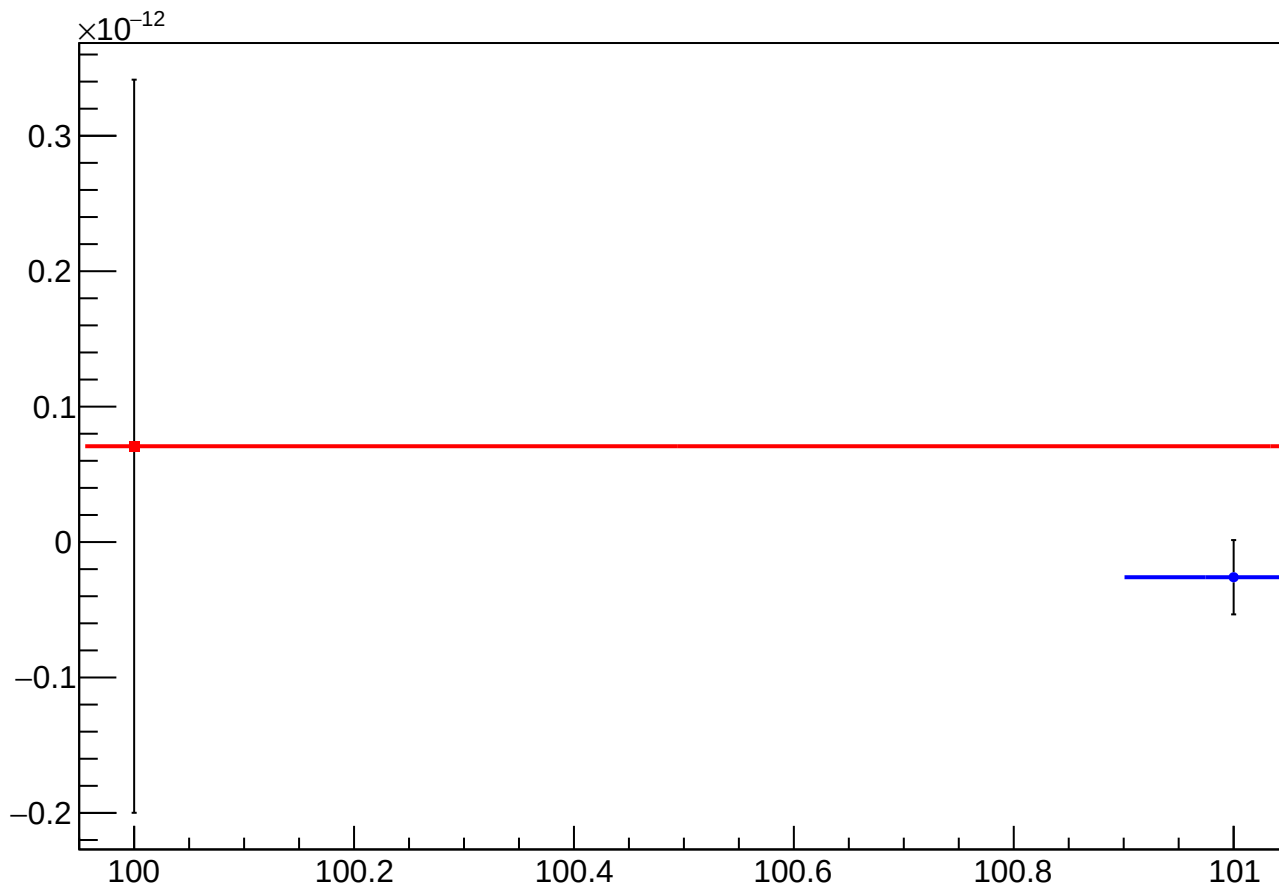
Right: 56.655+/-0.054  $\chi^2$ /NDF: 75471.9/1

In: 55.331+/-0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 56.655+/-0.054  $\chi^2$ /NDF: 75471.9/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

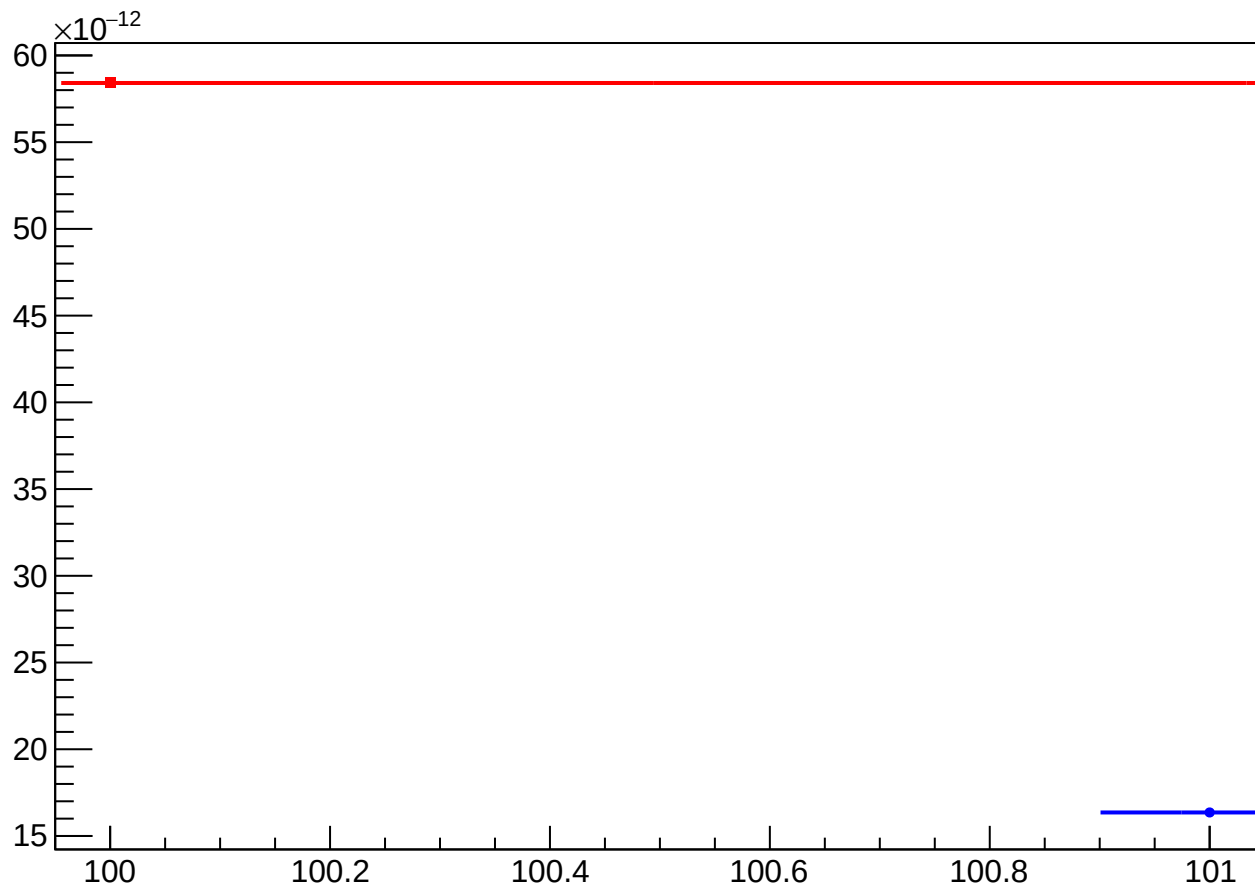
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

asym\_at1\_dd\_at2\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

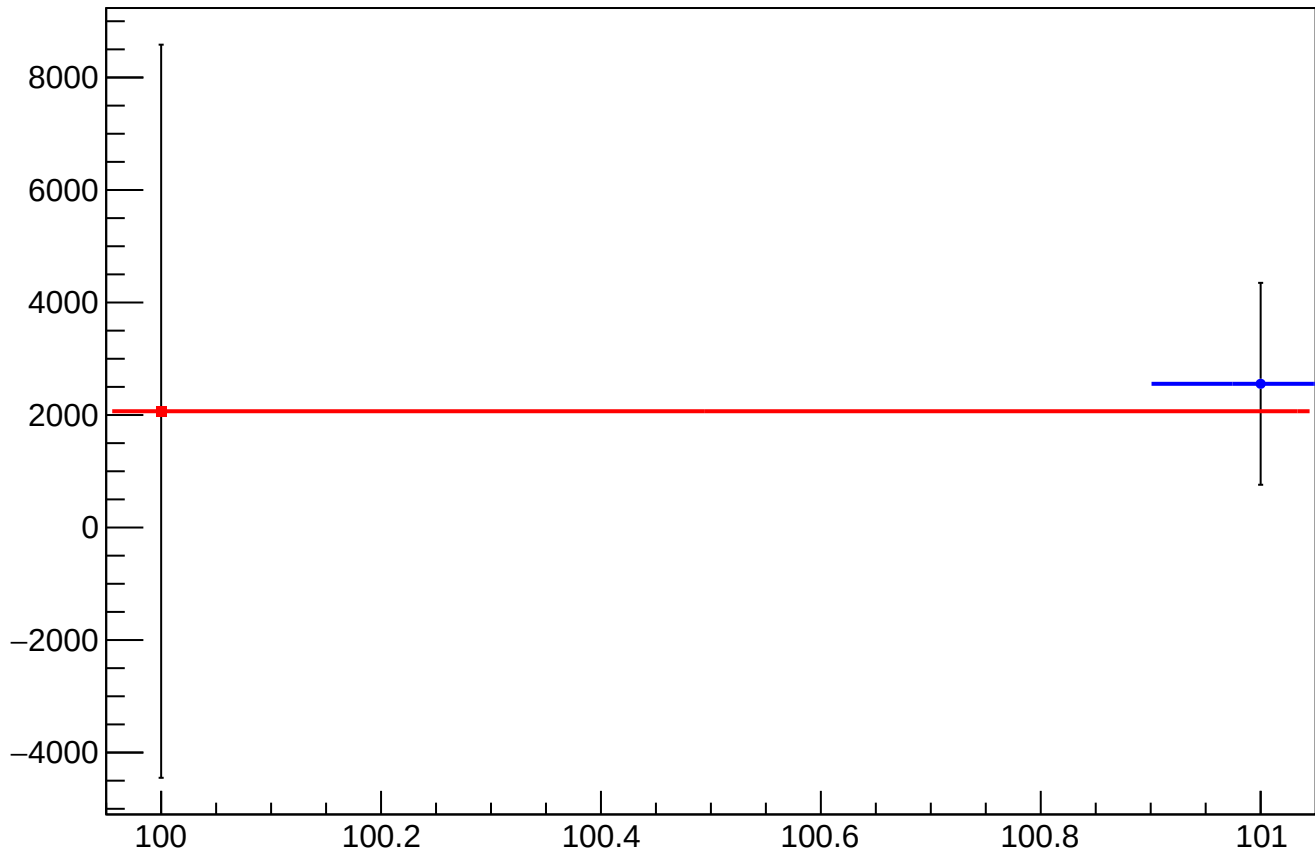
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 47792.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 47792.4/1

reg\_asym\_usl\_atl1\_avg\_mean vs Slug, Sign Corrected



Right In: 2554.700+/-1794.645  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2067.212+/-6516.144  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

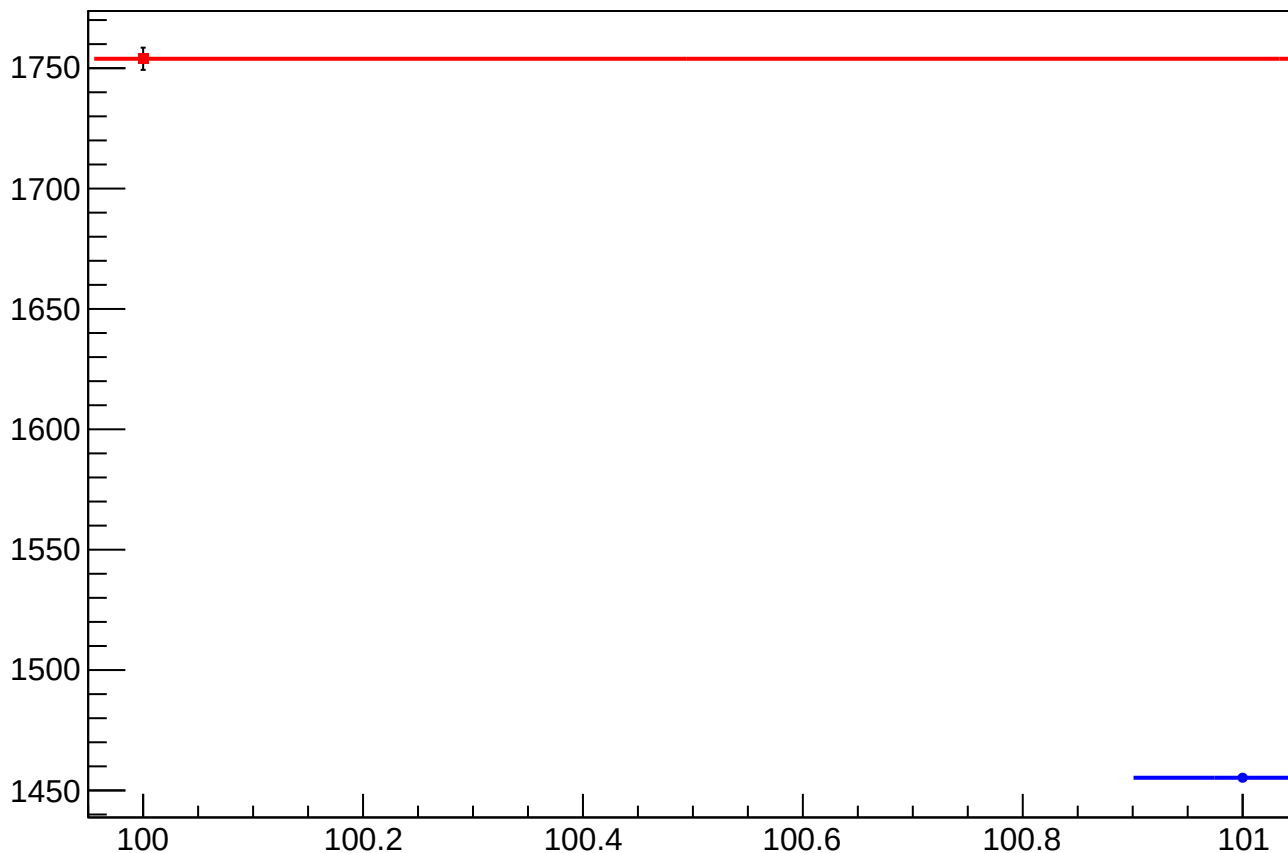
Right: 2520.330+/-1730.223  $\chi^2/\text{NDF}$ : 0.0/1

In: 2554.700+/-1794.645  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2520.330+/-1730.223  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_usl\_atl1\_avg\_rms vs Slug, Sign Corrected



Right In: 1455.270 $\pm$ 1.269  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1753.921 $\pm$ 4.608  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

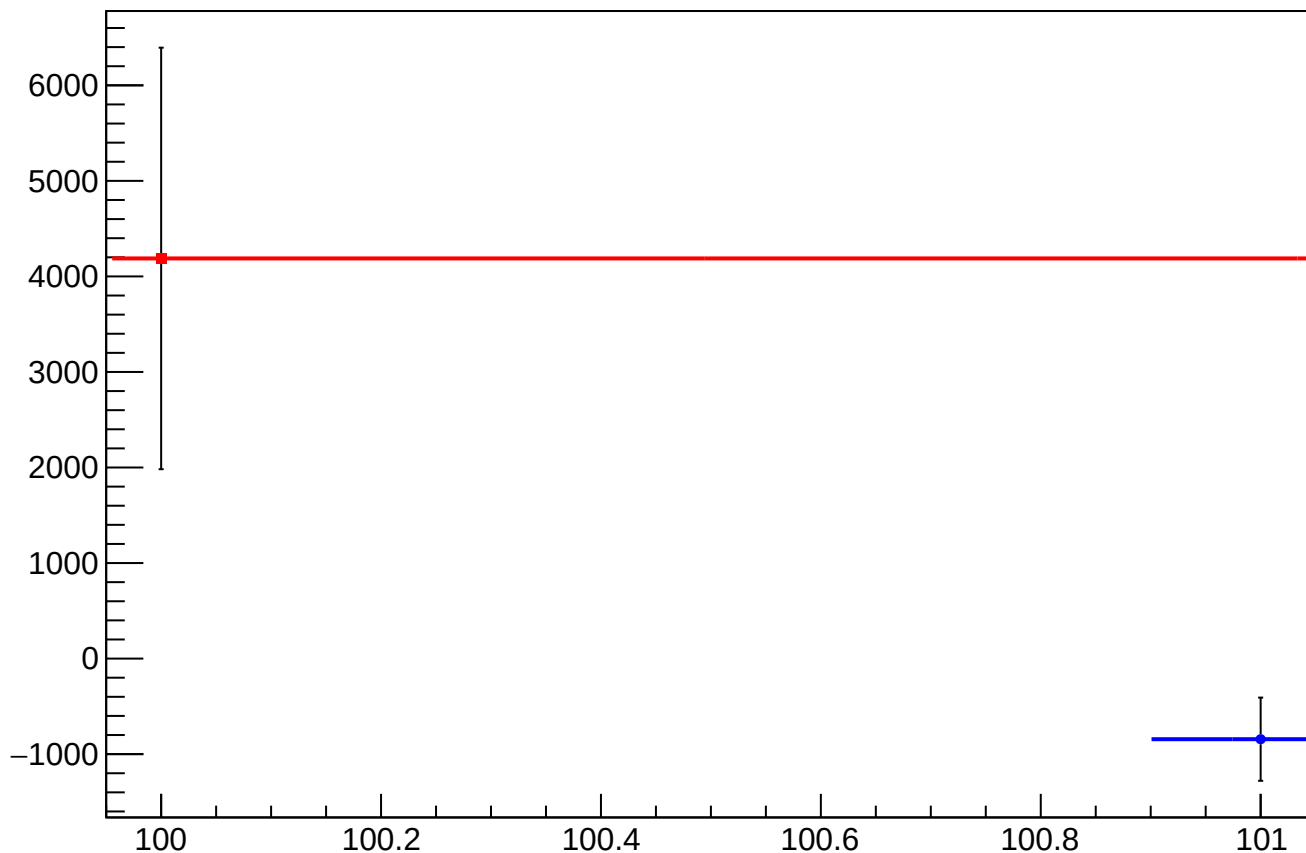
Right: 1476.327 $\pm$ 1.223  $\chi^2$ /NDF: 3905.0/1

In: 1455.270 $\pm$ 1.269  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1476.327 $\pm$ 1.223  $\chi^2$ /NDF: 3905.0/1

asym\_usl\_atl1\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -843.695+/-435.404  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4188.165+/-2205.974  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

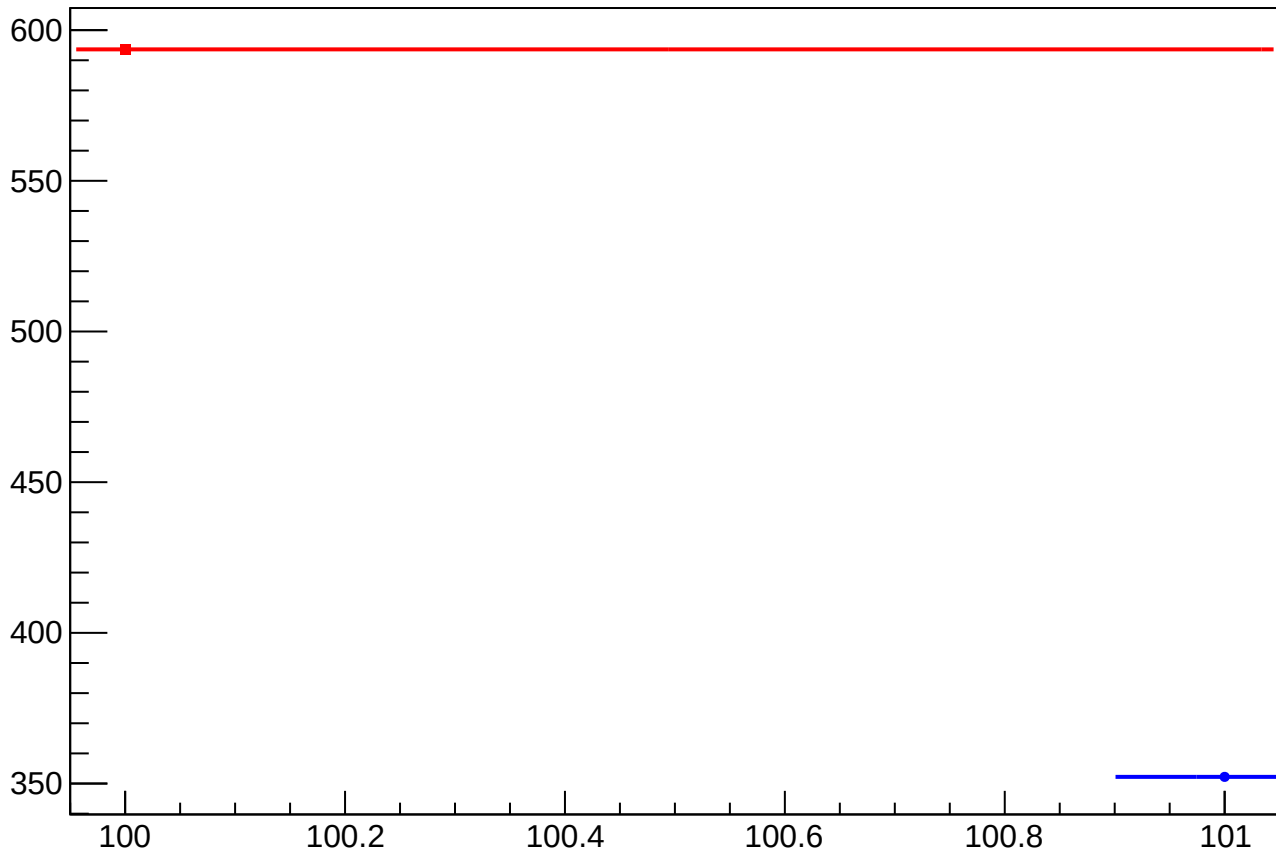
Right: -655.019+/-427.163  $\chi^2/\text{NDF}$ : 5.0/1

In: -843.695+/-435.404  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -655.019+/-427.163  $\chi^2/\text{NDF}$ : 5.0/1

asym\_usl\_atl1\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 352.214 $\pm$ 0.308  $\chi^2/NDF$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Right Out: 593.617 $\pm$ 1.560  $\chi^2/NDF$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Right: 361.266 $\pm$ 0.302  $\chi^2/NDF$ : 23052.3/1

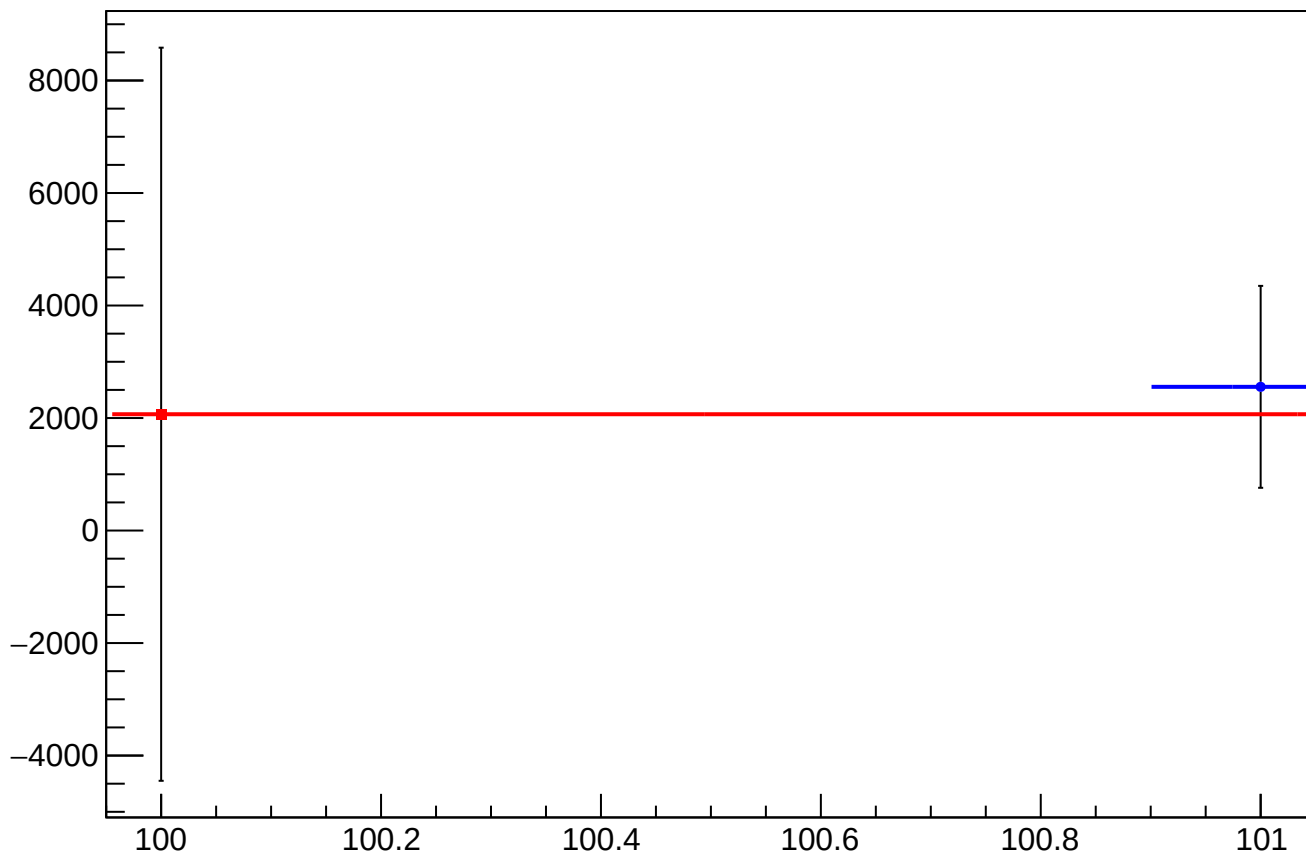
In: 352.214 $\pm$ 0.308  $\chi^2/NDF$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

All: 361.266 $\pm$ 0.302  $\chi^2/NDF$ : 23052.3/1



cor\_asym\_usl\_atl1\_avg\_mean vs Slug, Sign Corrected



Right In: 2554.502 $\pm$ 1794.645  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2067.523 $\pm$ 6516.144  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

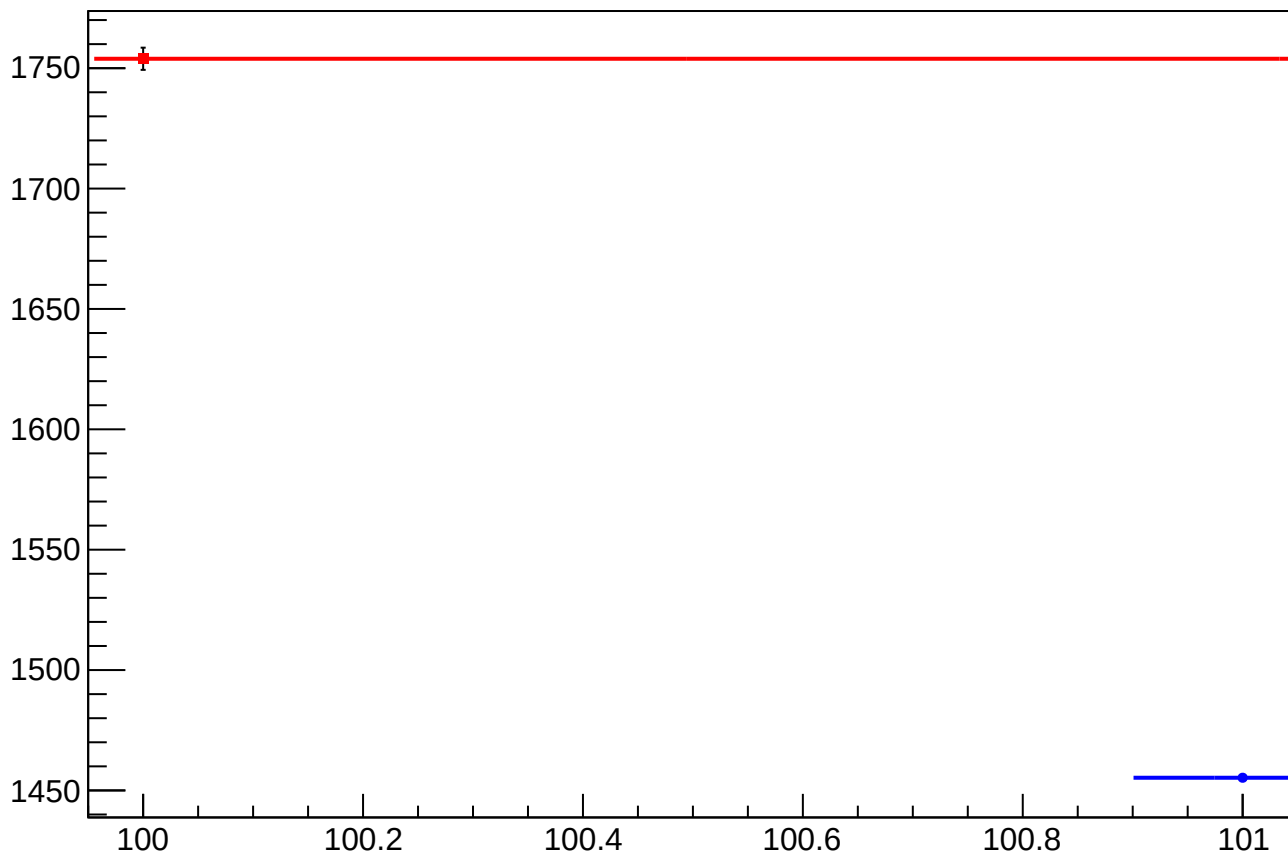
Right: 2520.168 $\pm$ 1730.223  $\chi^2$ /NDF: 0.0/1

In: 2554.502 $\pm$ 1794.645  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2520.168 $\pm$ 1730.223  $\chi^2$ /NDF: 0.0/1

cor\_asym\_usl\_atl1\_avg\_rms vs Slug, Sign Corrected



Right In: 1455.270 $\pm$ 1.269  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1753.921 $\pm$ 4.608  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

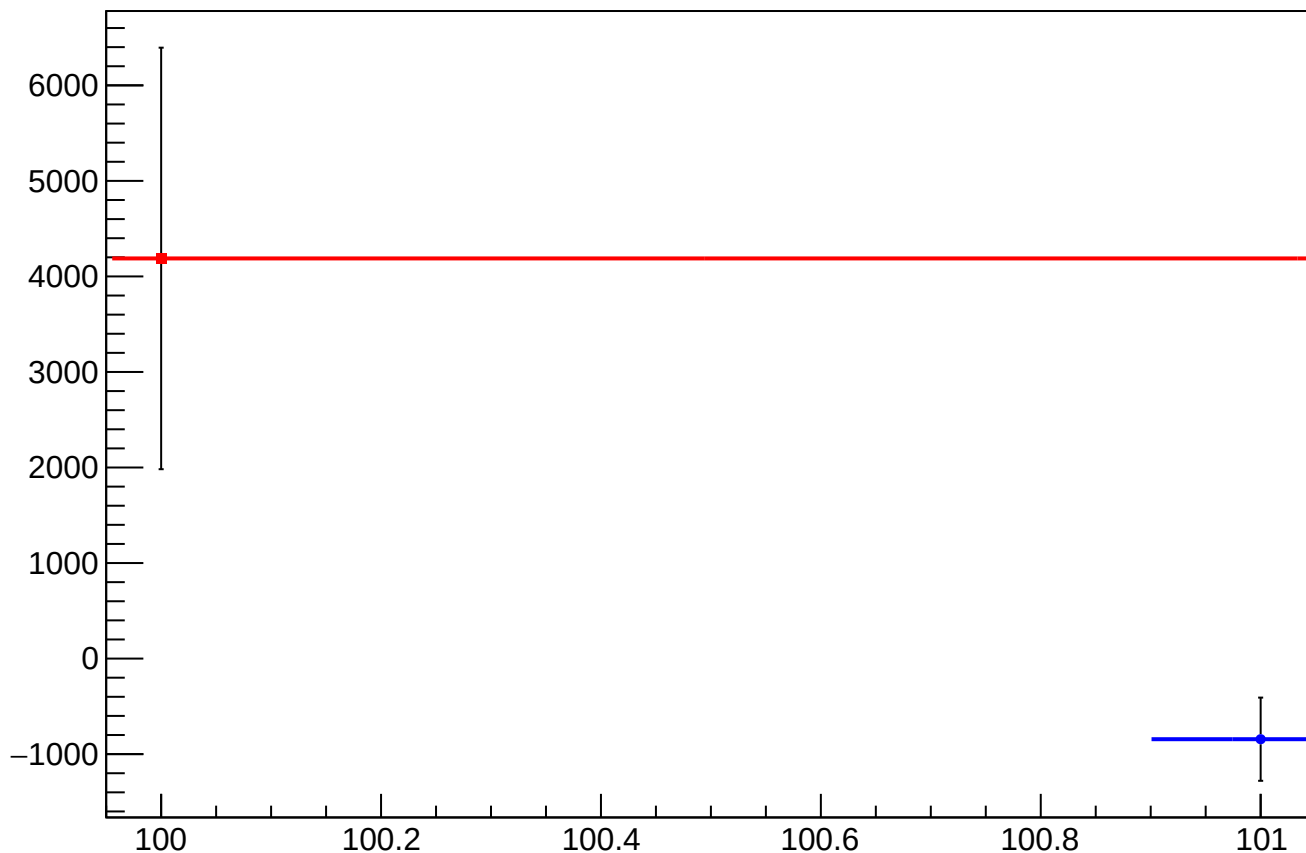
Right: 1476.327 $\pm$ 1.223  $\chi^2$ /NDF: 3905.0/1

In: 1455.270 $\pm$ 1.269  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1476.327 $\pm$ 1.223  $\chi^2$ /NDF: 3905.0/1

asym\_usl\_atl1\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -843.817+/-435.403  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4188.325+/-2206.061  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

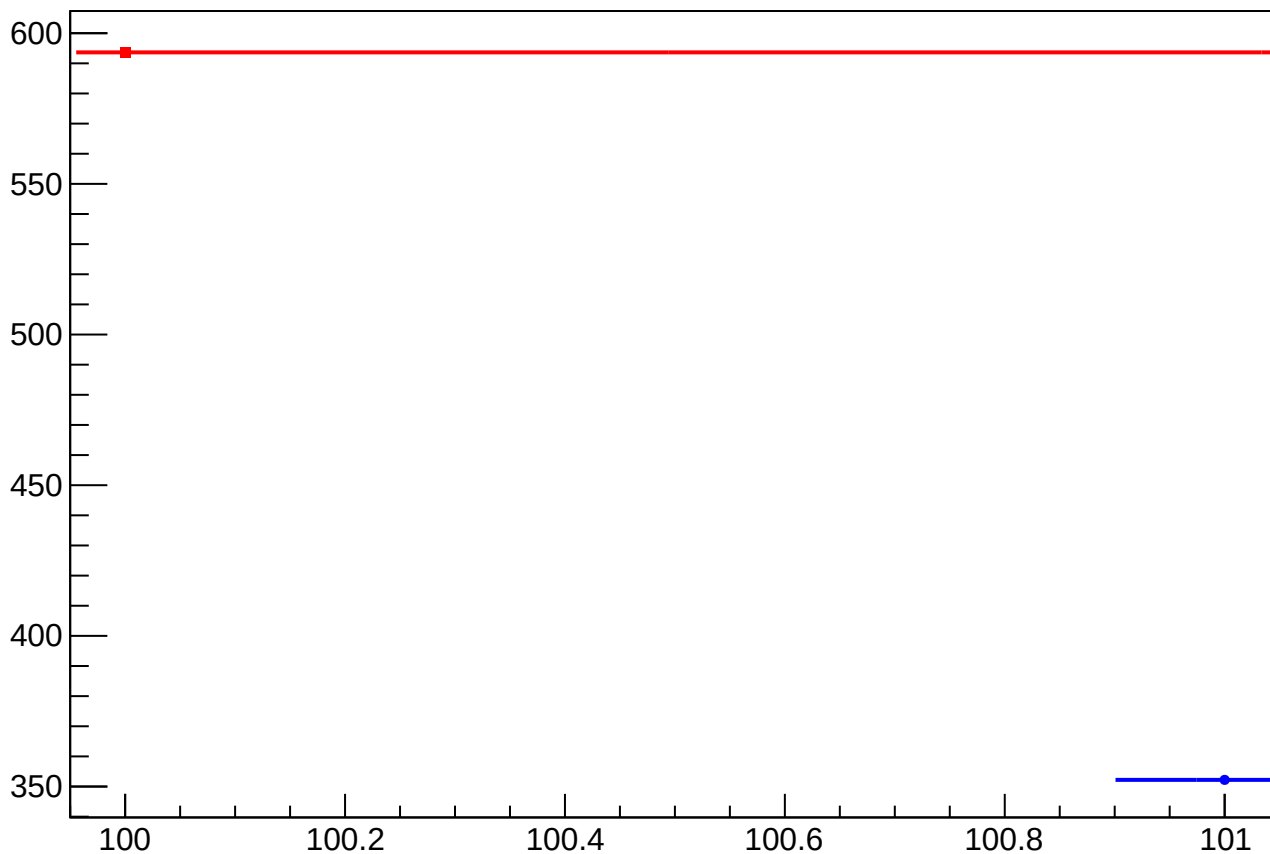
Right: -655.146+/-427.163  $\chi^2/\text{NDF}$ : 5.0/1

In: -843.817+/-435.403  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -655.146+/-427.163  $\chi^2/\text{NDF}$ : 5.0/1

asym\_usl\_atl1\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 352.213 $\pm$ 0.308  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 593.640 $\pm$ 1.560  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

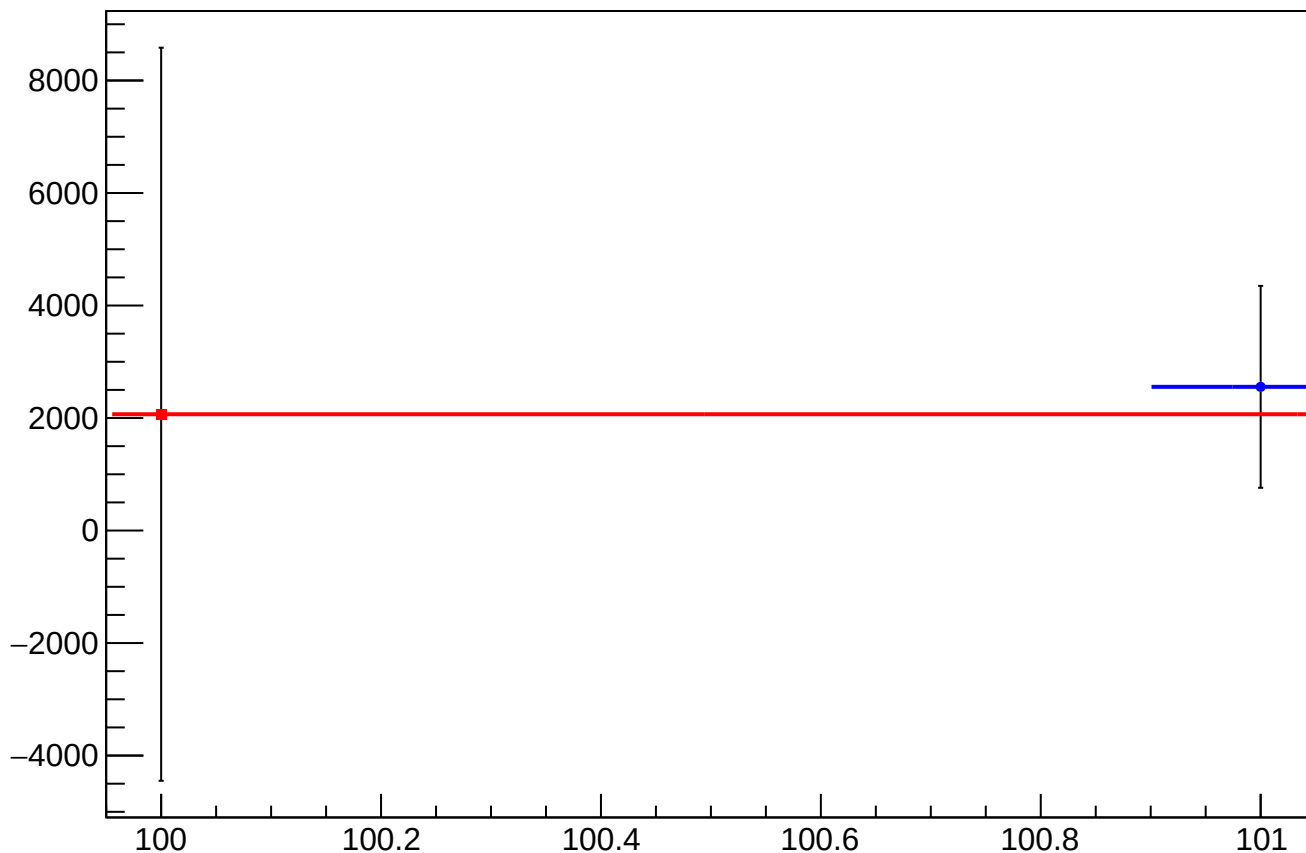
Right: 361.265 $\pm$ 0.302  $\chi^2$ /NDF: 23055.2/1

In: 352.213 $\pm$ 0.308  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 361.265 $\pm$ 0.302  $\chi^2$ /NDF: 23055.2/1

eigen\_cor\_asym\_usl\_atl1\_avg\_mean vs Slug, Sign Corrected



Right In: 2554.502 $\pm$ 1794.645  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2067.523 $\pm$ 6516.144  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

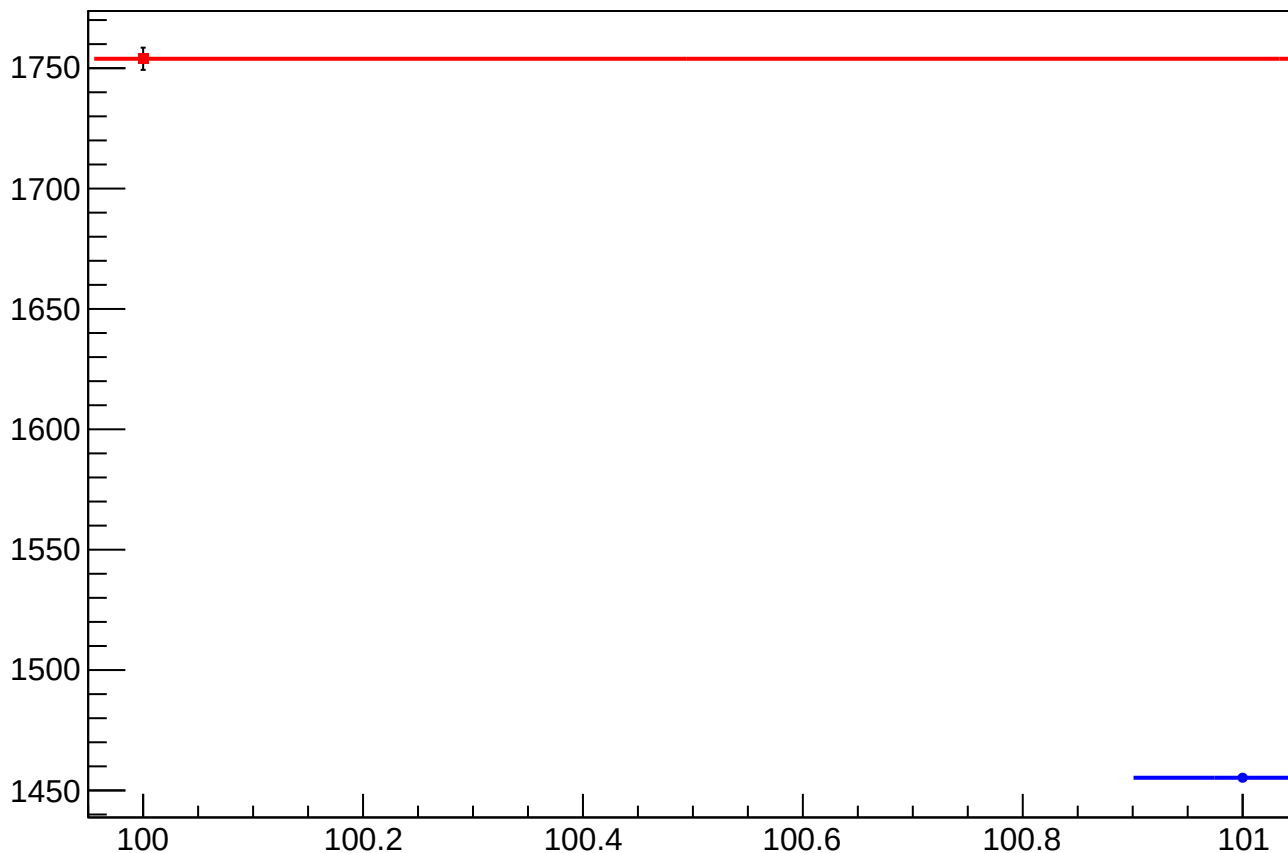
Right: 2520.168 $\pm$ 1730.223  $\chi^2$ /NDF: 0.0/1

In: 2554.502 $\pm$ 1794.645  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2520.168 $\pm$ 1730.223  $\chi^2$ /NDF: 0.0/1

eigen\_cor\_asym\_usl\_atl1\_avg\_rms vs Slug, Sign Corrected



Right In: 1455.270+/-1.269  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1753.921+/-4.608  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

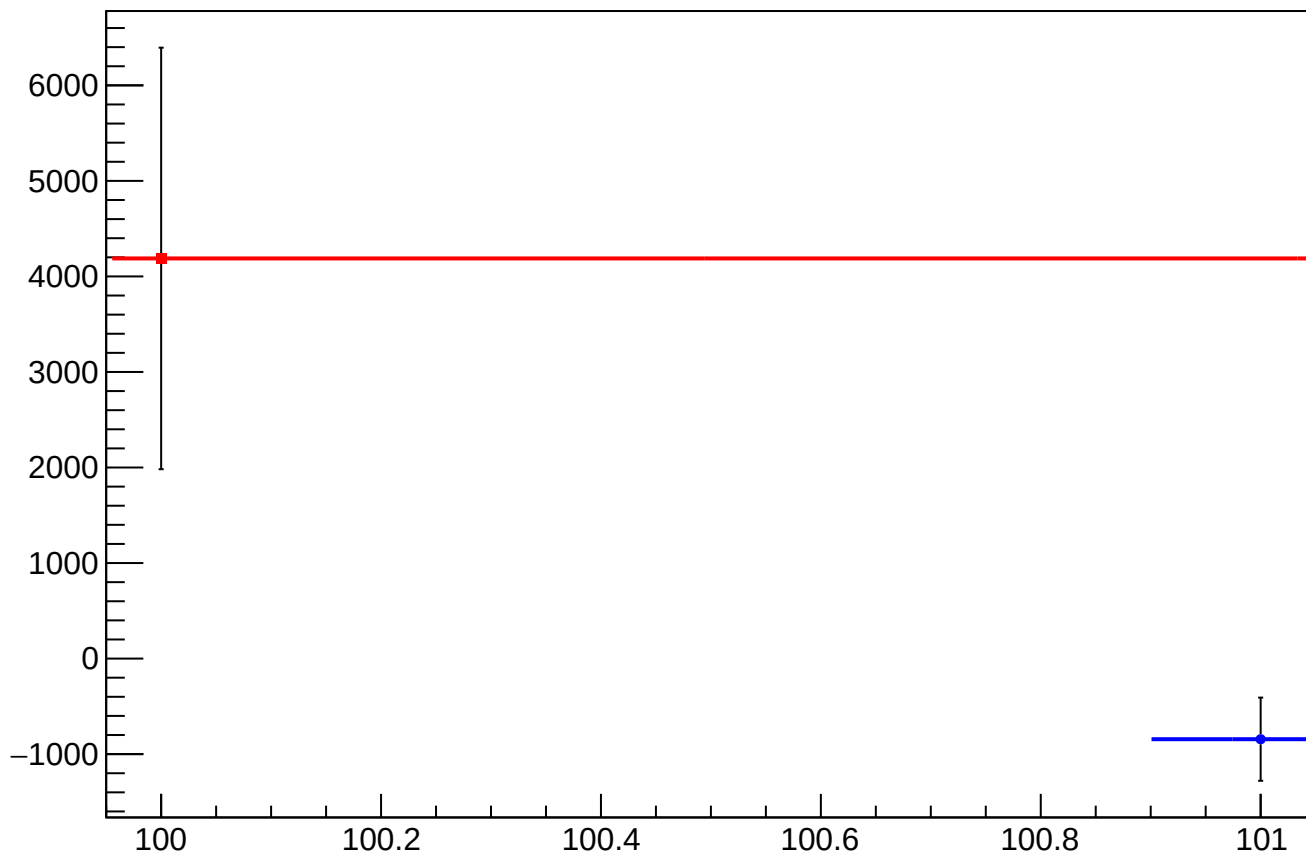
Right: 1476.327+/-1.223  $\chi^2/\text{NDF}$ : 3905.0/1

In: 1455.270+/-1.269  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1476.327+/-1.223  $\chi^2/\text{NDF}$ : 3905.0/1

asym\_usl\_atl1\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -843.817+/-435.403  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4188.325+/-2206.061  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

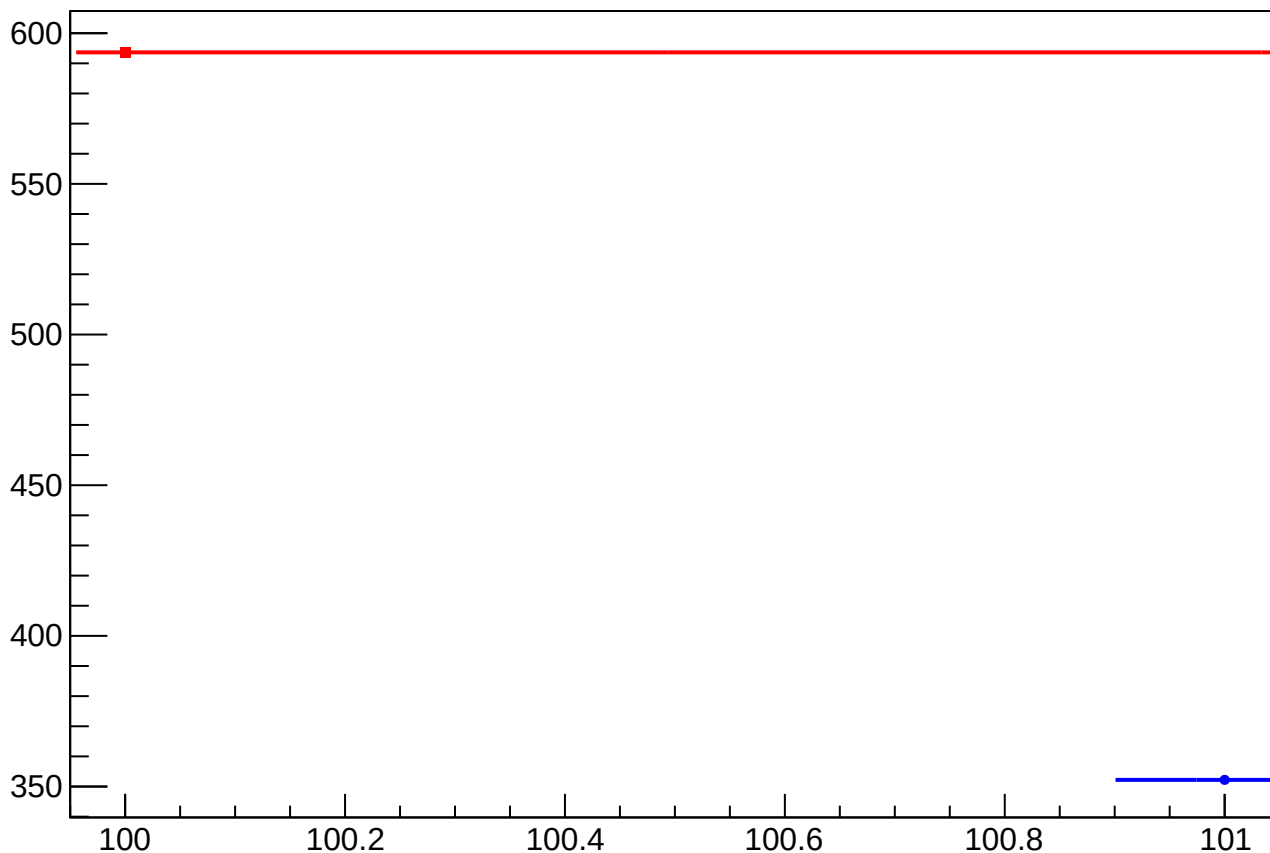
Right: -655.146+/-427.163  $\chi^2/\text{NDF}$ : 5.0/1

In: -843.817+/-435.403  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -655.146+/-427.163  $\chi^2/\text{NDF}$ : 5.0/1

asym\_usl\_atl1\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 352.213+/-0.308  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 593.640+/-1.560  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 361.265+/-0.302  $\chi^2/\text{NDF}$ : 23055.2/1

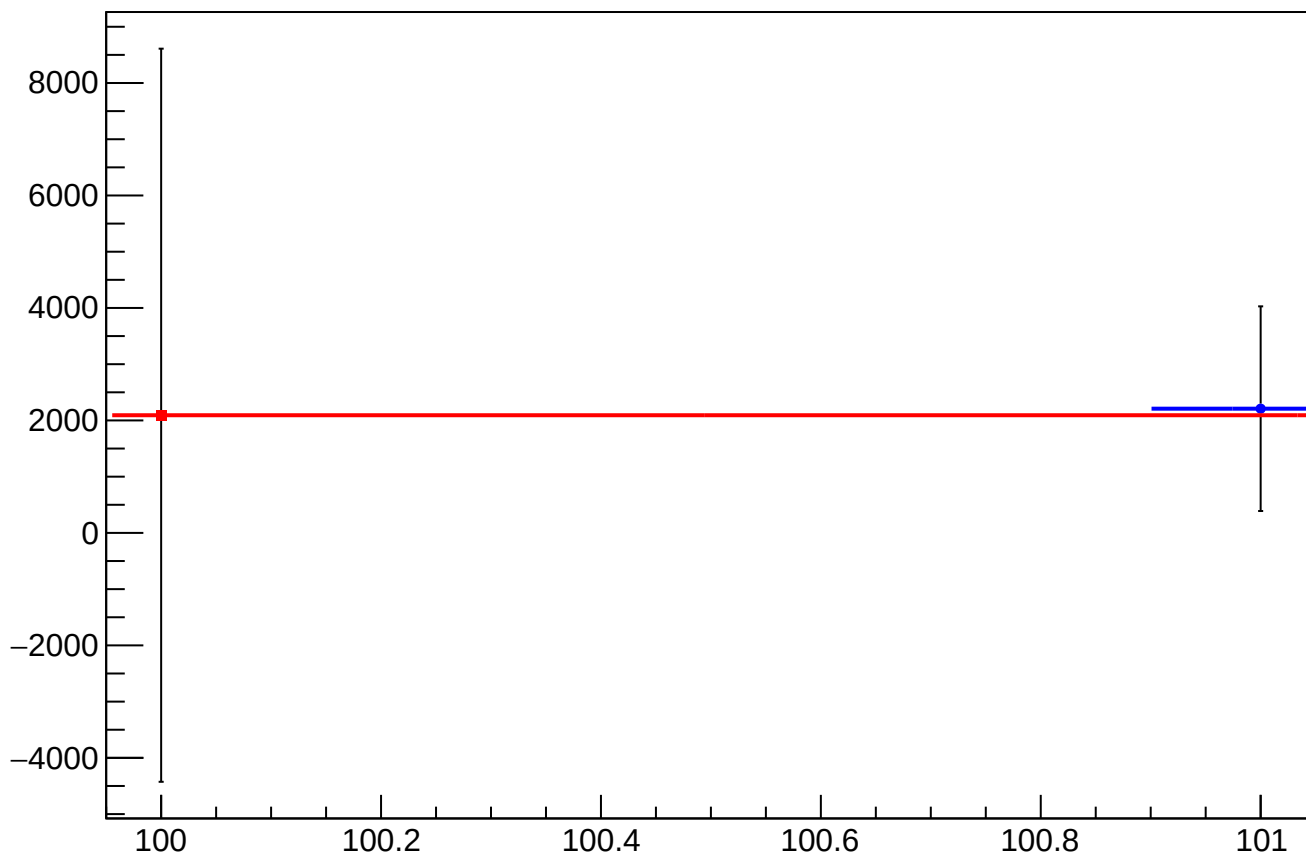
In: 352.213+/-0.308  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 361.265+/-0.302  $\chi^2/\text{NDF}$ : 23055.2/1



dit\_asym\_usl\_atl1\_avg\_mean vs Slug, Sign Corrected



Right In: 2208.895+/-1819.623  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2092.343+/-6518.122  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

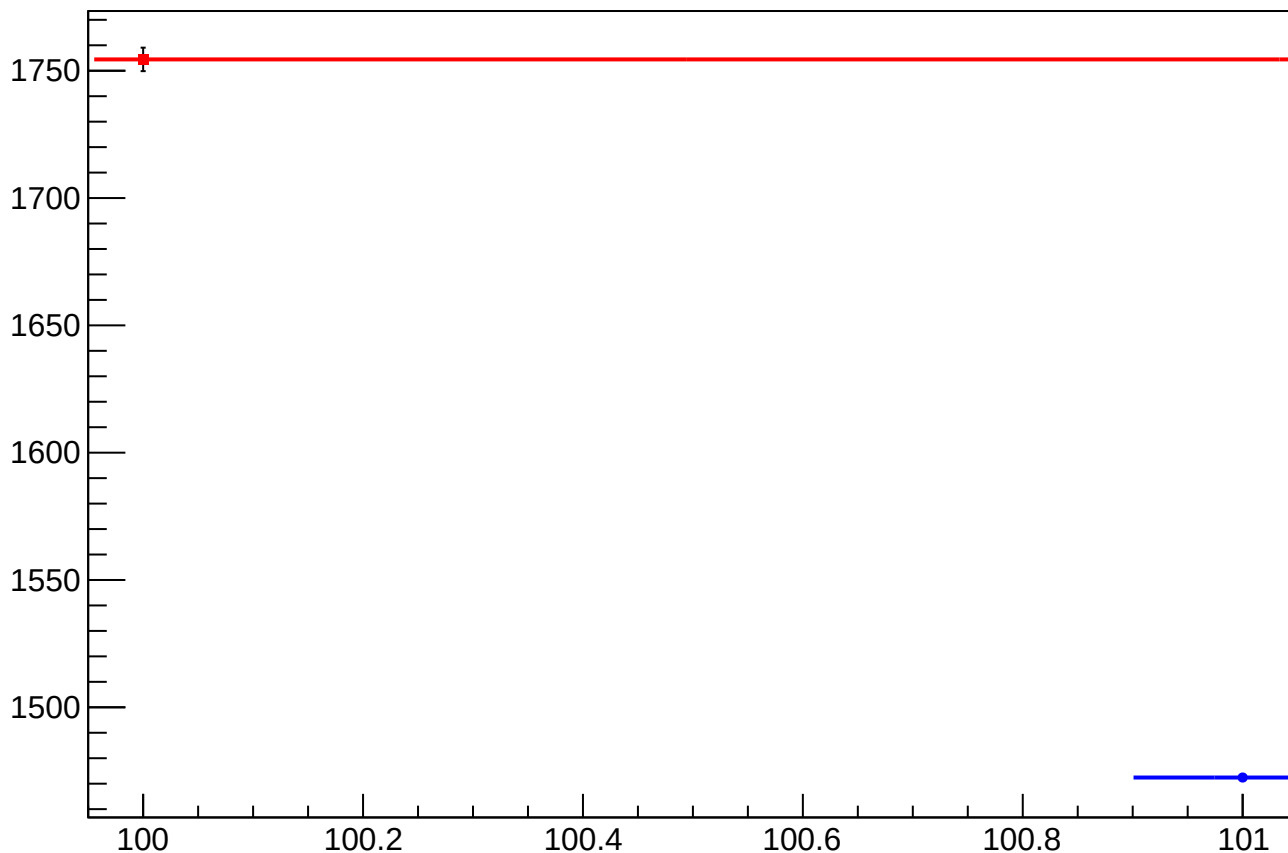
Right: 2200.468+/-1752.612  $\chi^2/\text{NDF}$ : 0.0/1

In: 2208.895+/-1819.623  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2200.468+/-1752.612  $\chi^2/\text{NDF}$ : 0.0/1

dit\_asym\_usl\_atl1\_avg\_rms vs Slug, Sign Corrected



Right In: 1472.420+/-1.287  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1754.453+/-4.609  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

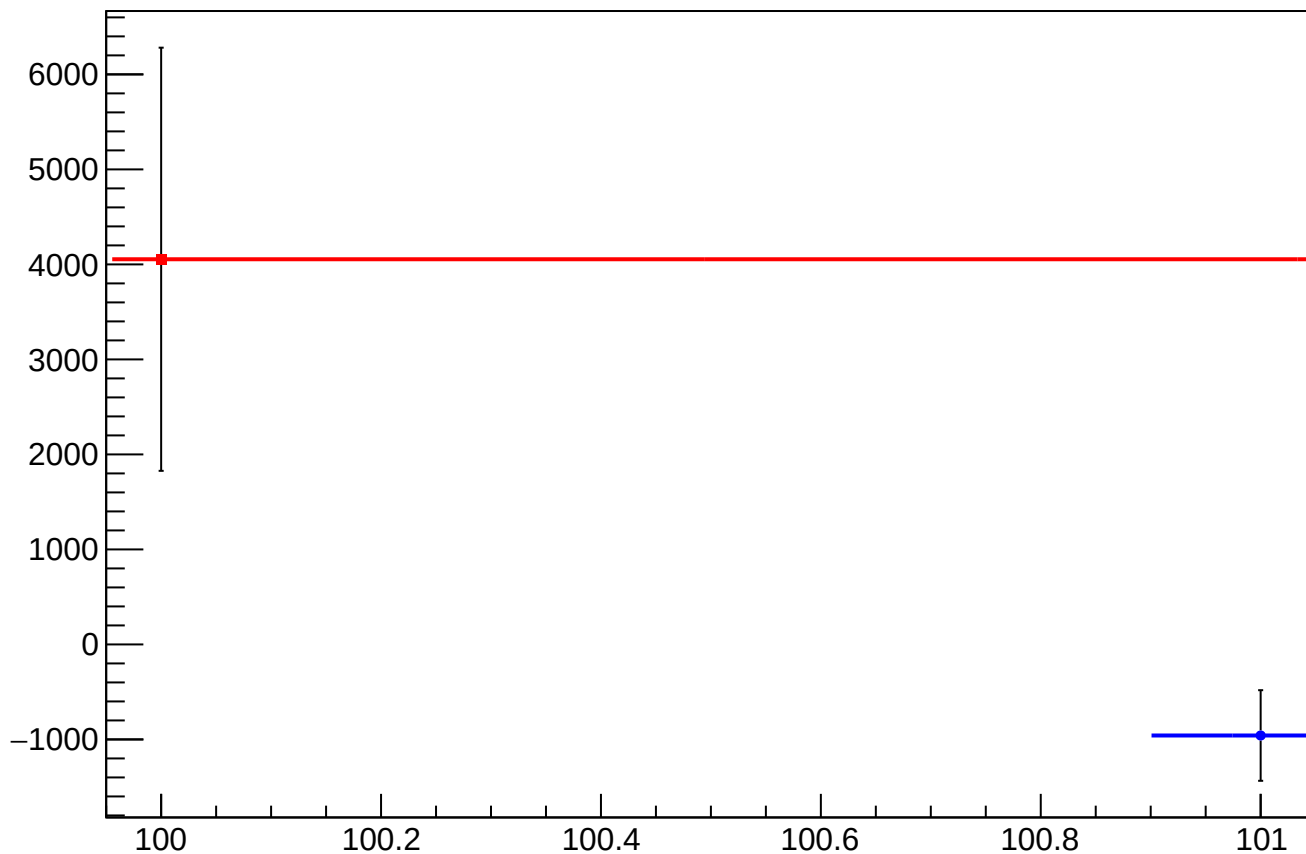
Right: 1492.810+/-1.239  $\chi^2/\text{NDF}$ : 3473.7/1

In: 1472.420+/-1.287  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1492.810+/-1.239  $\chi^2/\text{NDF}$ : 3473.7/1

asym\_usl\_atl1\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -958.489+/-476.879  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4054.161+/-2227.028  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

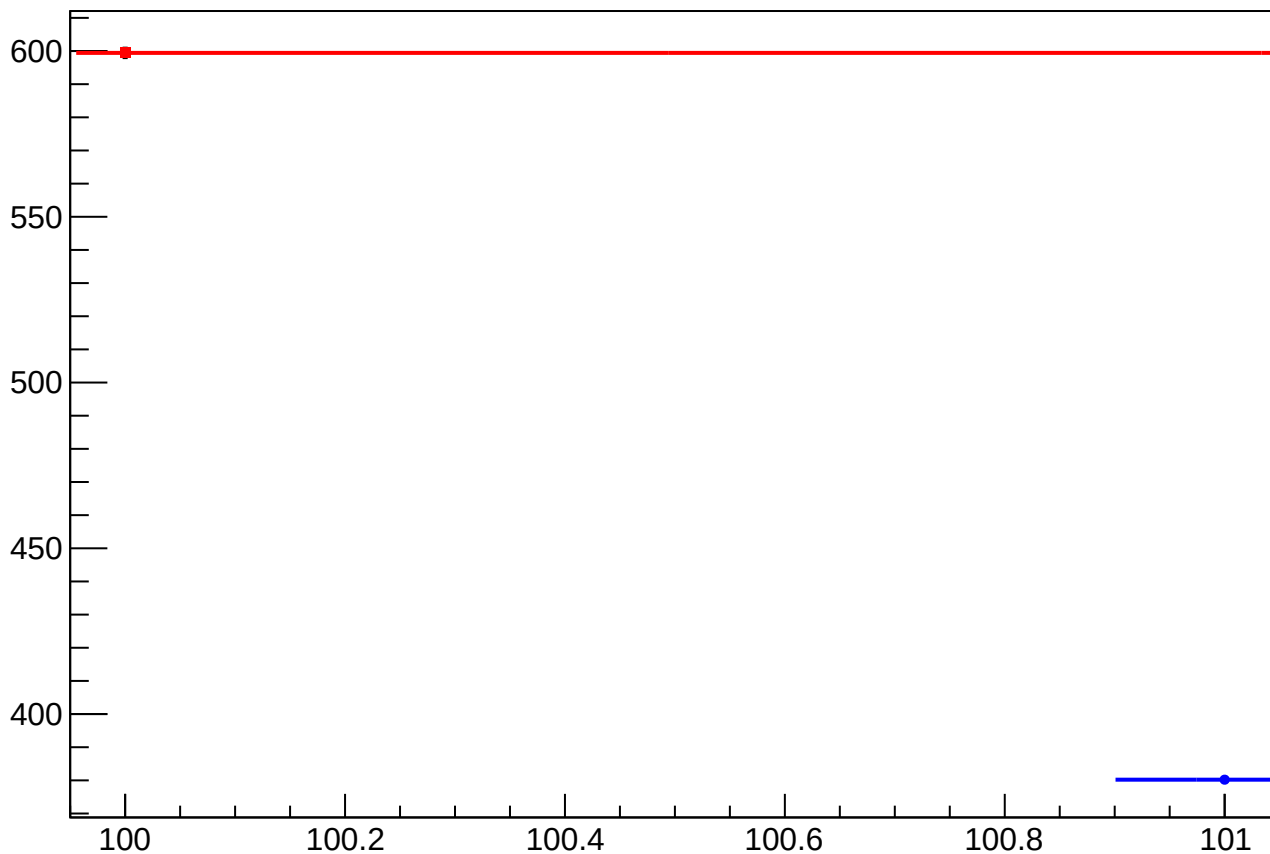
Right: -738.722+/-466.308  $\chi^2/\text{NDF}$ : 4.8/1

In: -958.489+/-476.879  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -738.722+/-466.308  $\chi^2/\text{NDF}$ : 4.8/1

asym\_usl\_atl1\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 380.208 $\pm$ 0.337  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 599.438 $\pm$ 1.575  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

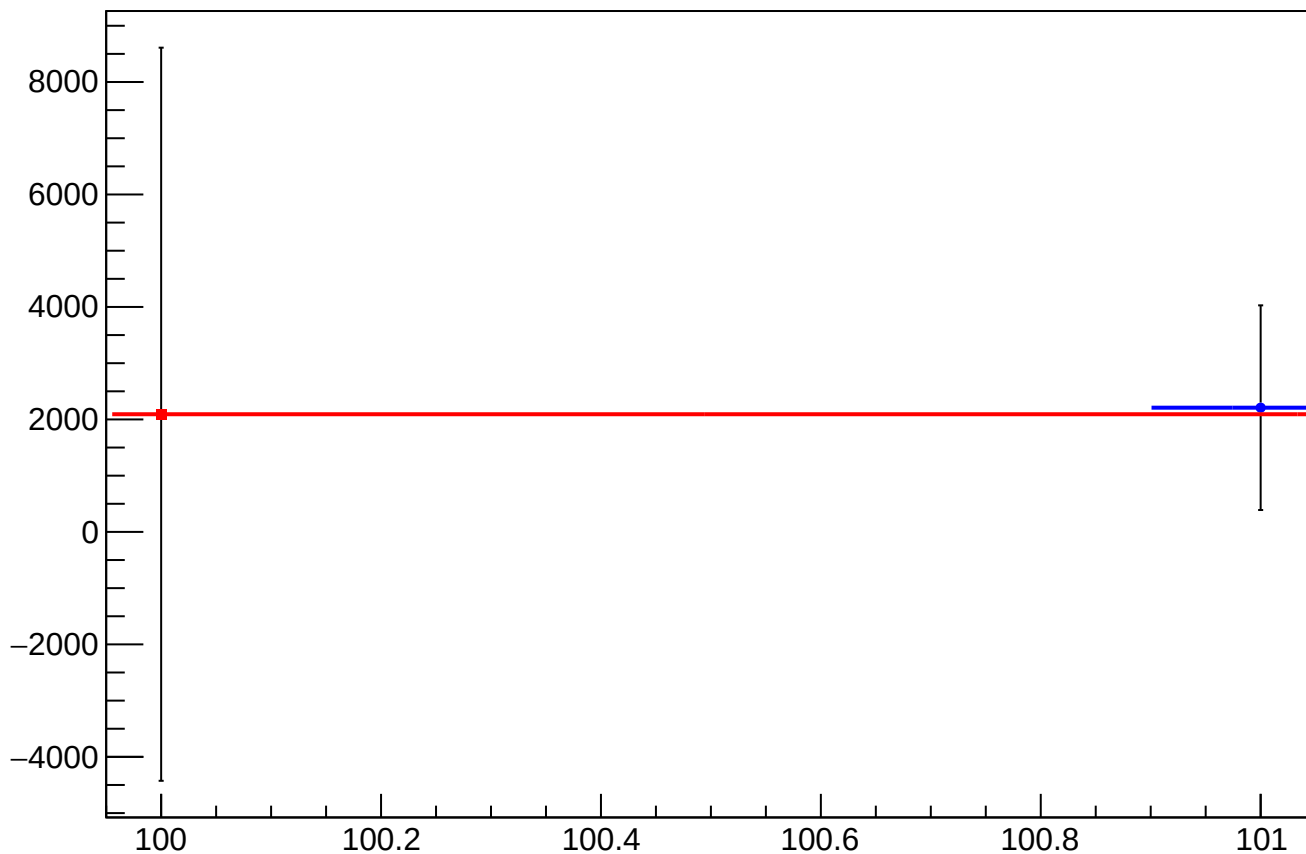
Right: 389.820 $\pm$ 0.330  $\chi^2$ /NDF: 18531.4/1

In: 380.208 $\pm$ 0.337  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 389.820 $\pm$ 0.330  $\chi^2$ /NDF: 18531.4/1

eigen\_dit\_asym\_usl\_atl1\_avg\_mean vs Slug, Sign Corrected



Right In: 2208.890+/-1819.623  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2092.352+/-6518.122  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

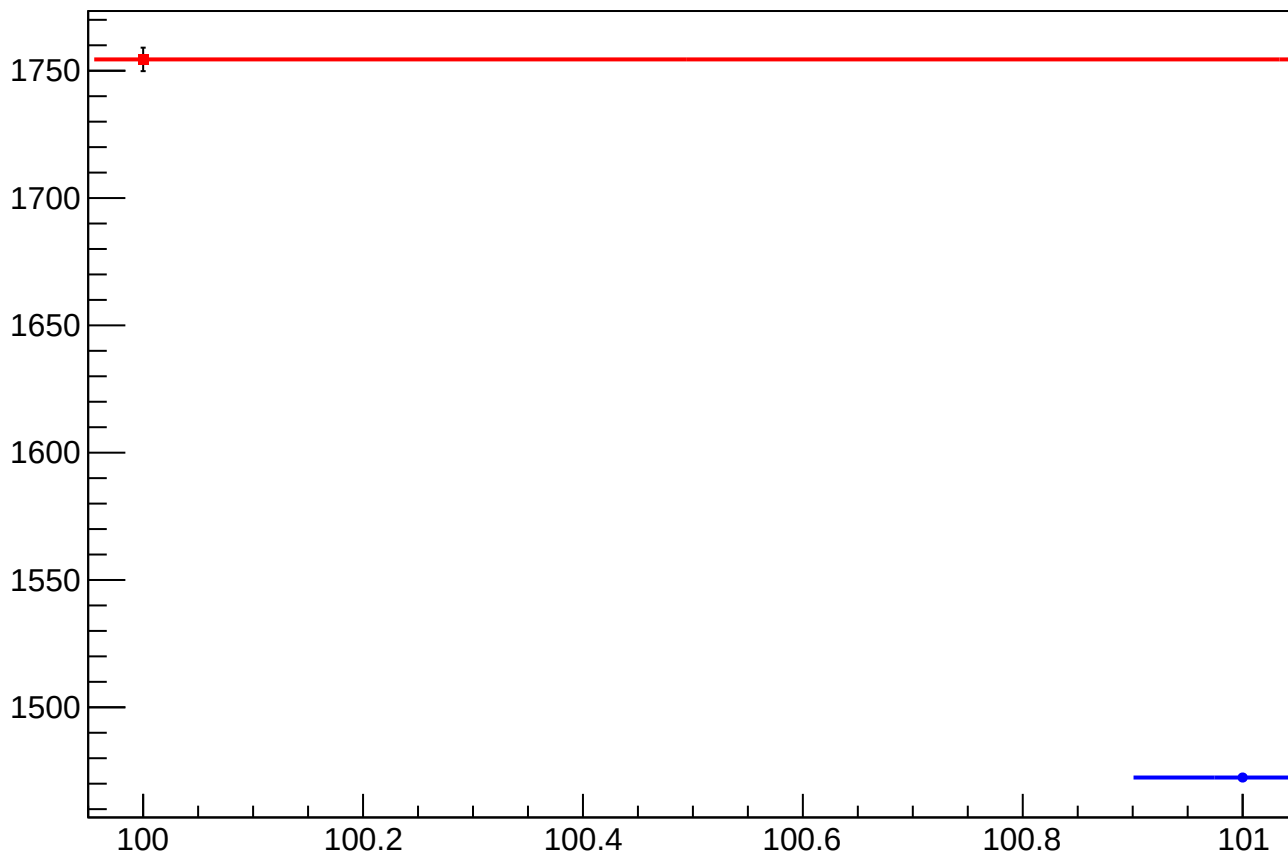
Right: 2200.465+/-1752.612  $\chi^2/\text{NDF}$ : 0.0/1

In: 2208.890+/-1819.623  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2200.465+/-1752.612  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_usl\_atl1\_avg\_rms vs Slug, Sign Corrected



Right In: 1472.420+/-1.287  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1754.453+/-4.609  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

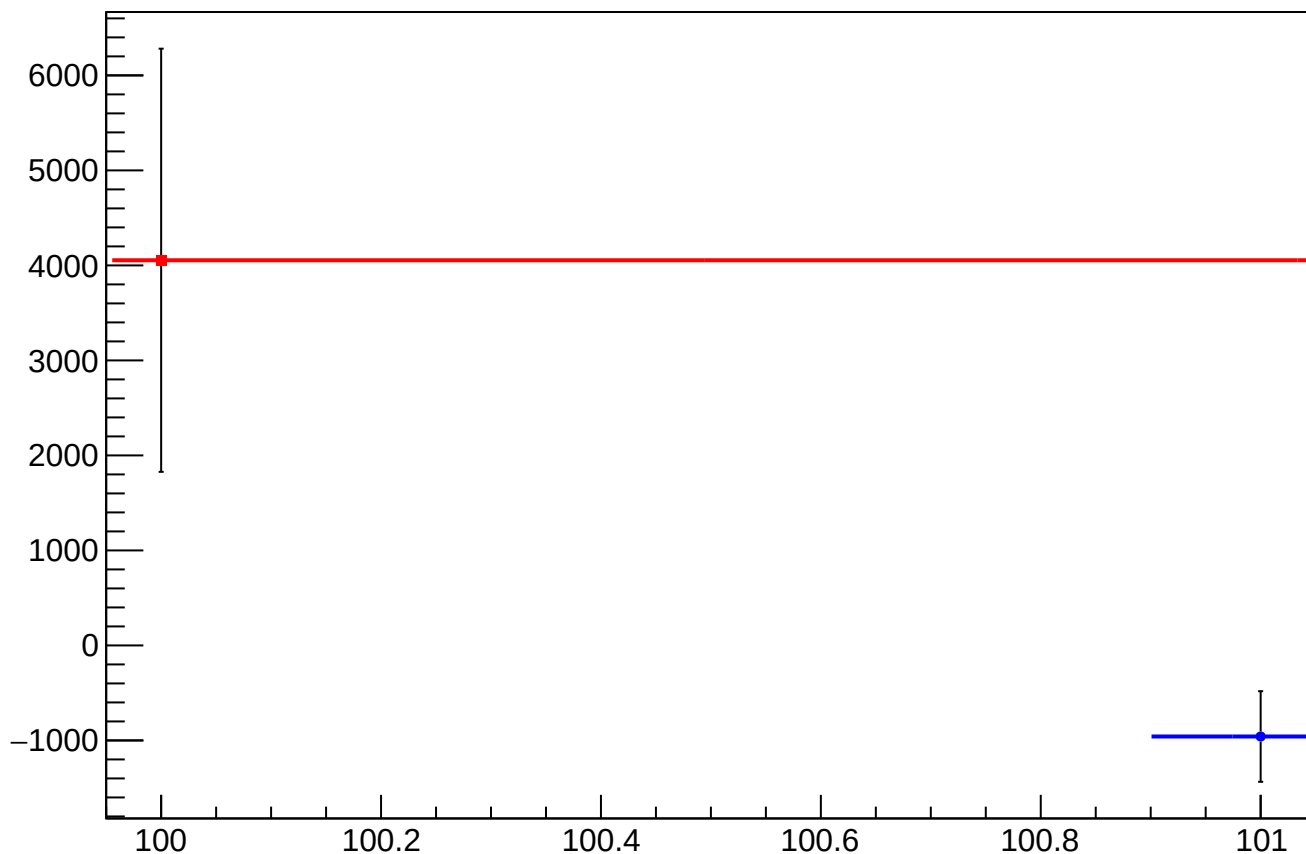
Right: 1492.810+/-1.239  $\chi^2/\text{NDF}$ : 3473.7/1

In: 1472.420+/-1.287  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1492.810+/-1.239  $\chi^2/\text{NDF}$ : 3473.7/1

asym\_usl\_atl1\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -958.492+/-476.880  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4054.170+/-2227.035  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

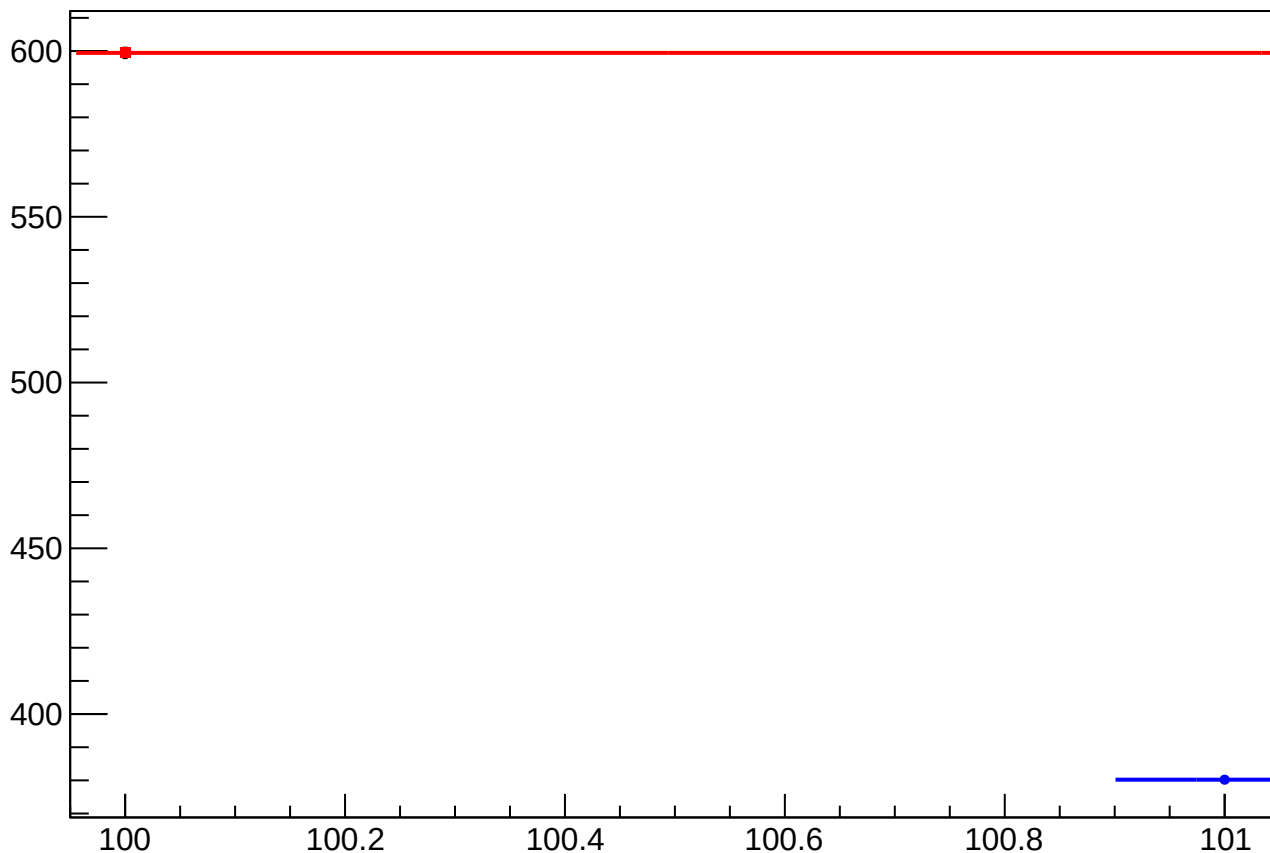
Right: -738.725+/-466.309  $\chi^2/\text{NDF}$ : 4.8/1

In: -958.492+/-476.880  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -738.725+/-466.309  $\chi^2/\text{NDF}$ : 4.8/1

asym\_usl\_atl1\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 380.209 $\pm$ 0.337  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 599.440 $\pm$ 1.575  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 389.820 $\pm$ 0.330  $\chi^2$ /NDF: 18531.5/1

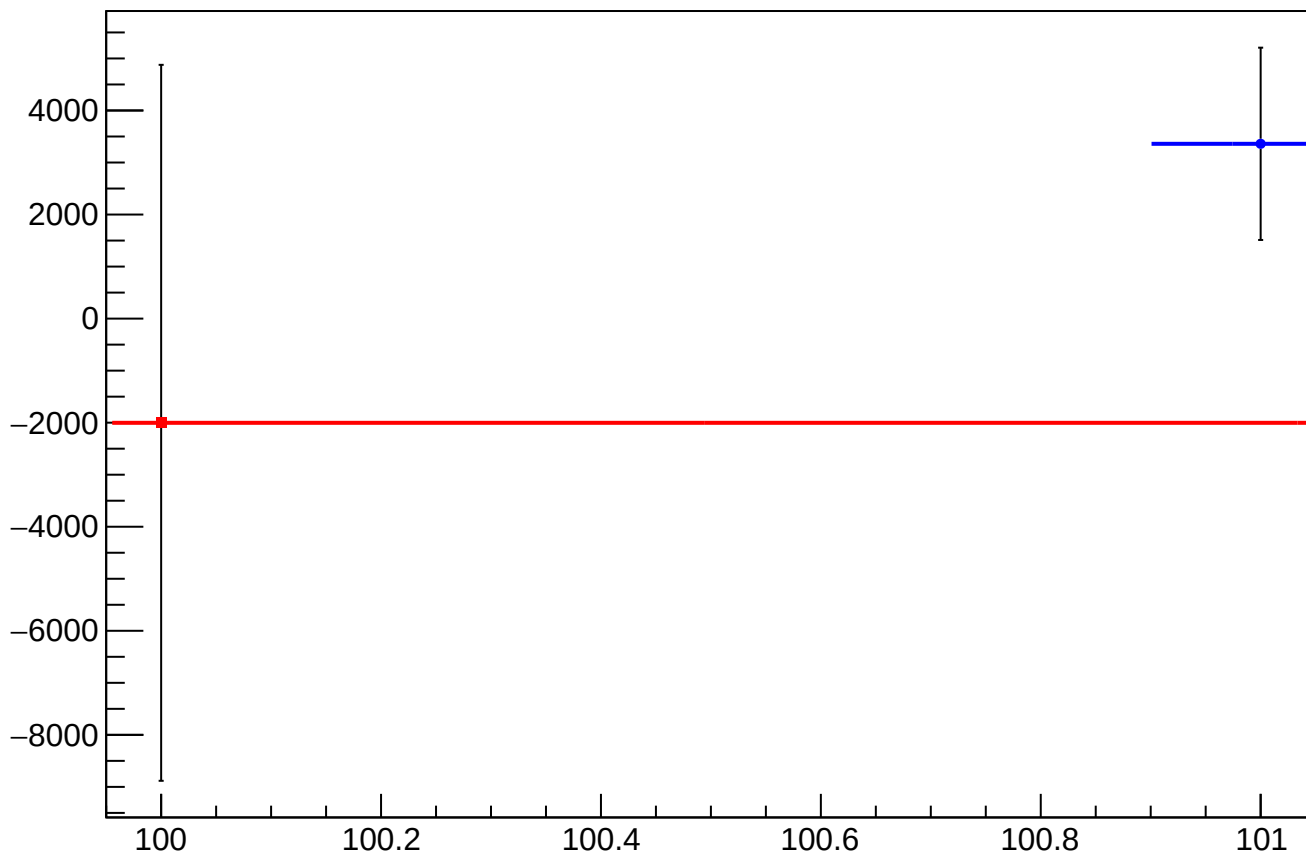
In: 380.209 $\pm$ 0.337  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 389.820 $\pm$ 0.330  $\chi^2$ /NDF: 18531.5/1



asym\_usl\_atl1\_avg\_mean vs Slug, Sign Corrected



Right In: 3359.417+/-1847.873  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2002.827+/-6880.153  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

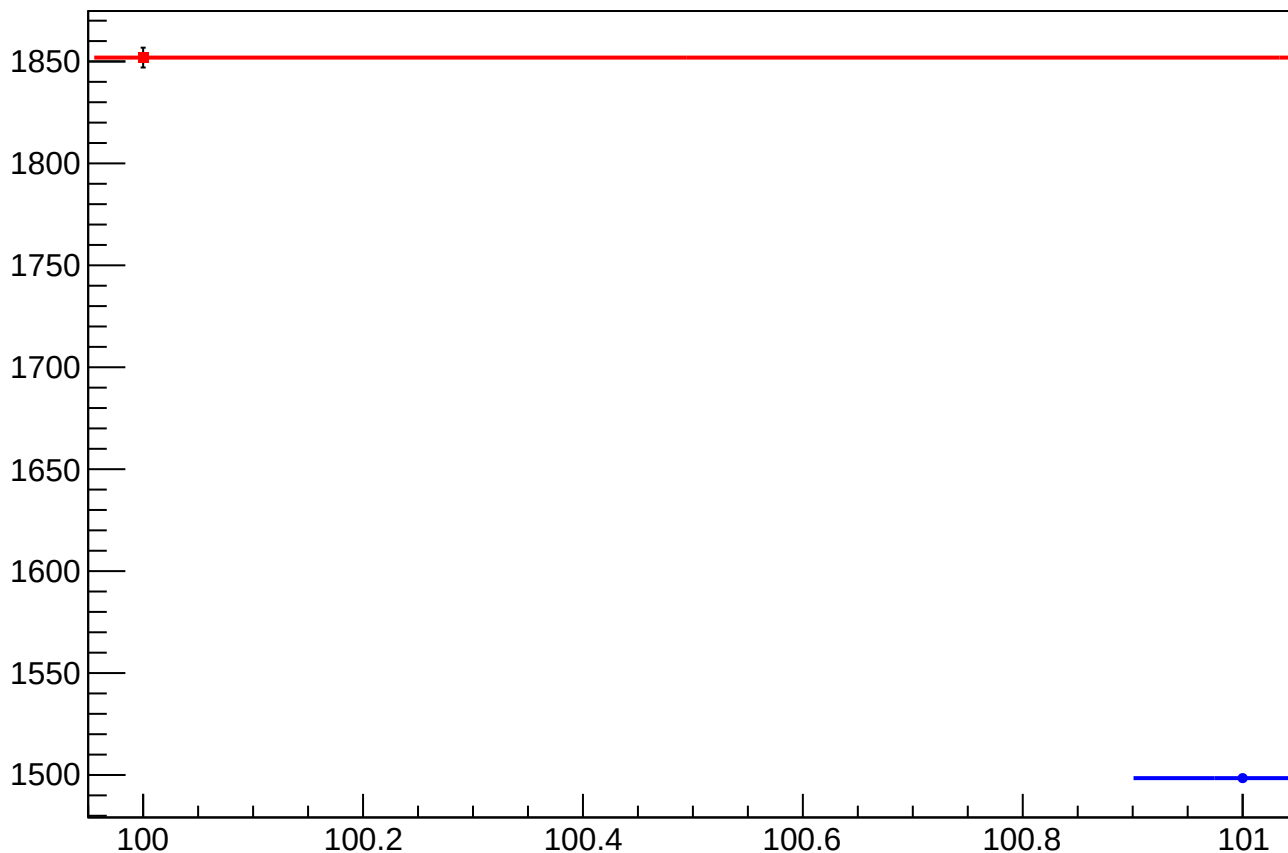
Right: 2998.635+/-1784.626  $\chi^2$ /NDF: 0.6/1

In: 3359.417+/-1847.873  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 2998.635+/-1784.626  $\chi^2$ /NDF: 0.6/1

# asym\_usl\_atl1\_avg\_rms vs Slug, Sign Corrected



Right In: 1498.458+/-1.307  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1851.900+/-4.865  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

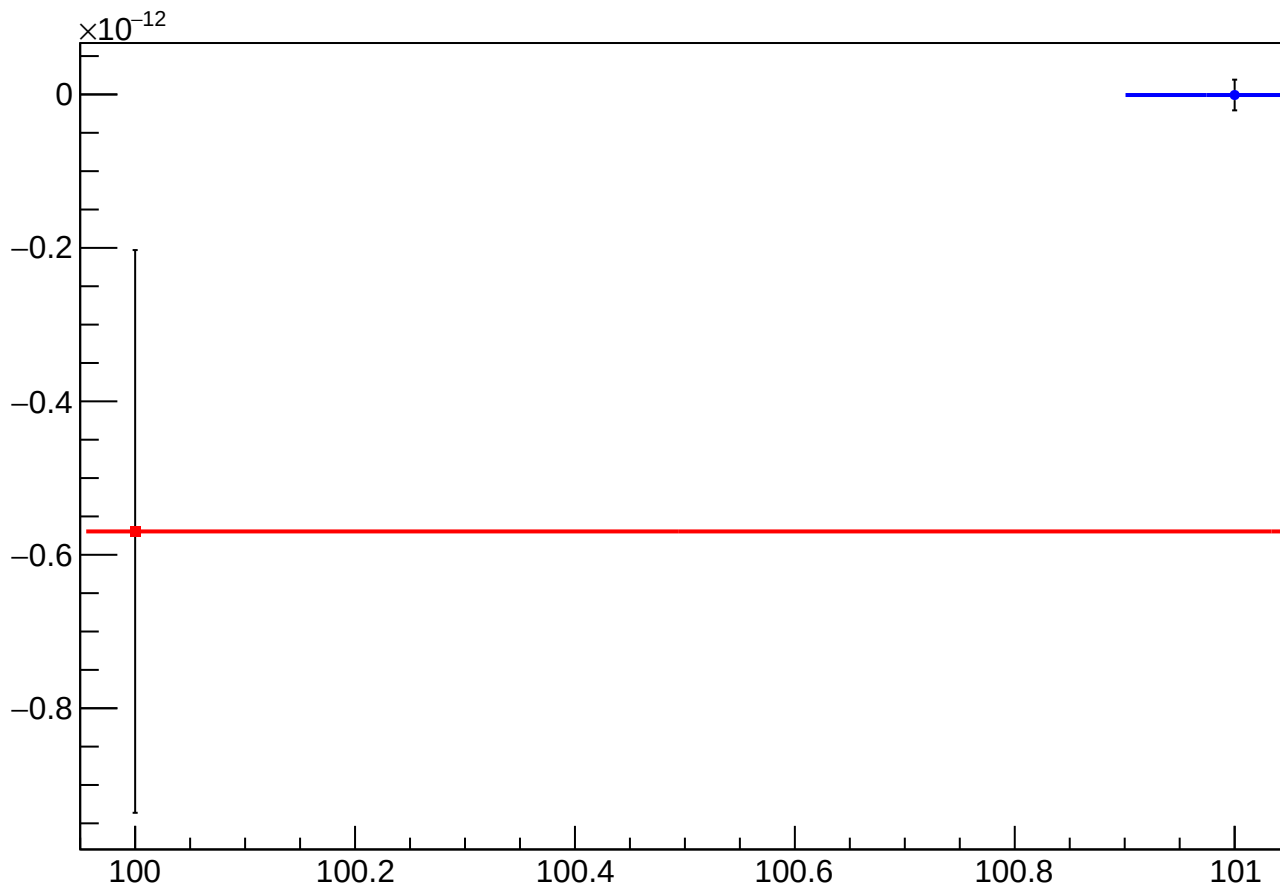
Right: 1522.238+/-1.262  $\chi^2/\text{NDF}$ : 4922.9/1

In: 1498.458+/-1.307  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1522.238+/-1.262  $\chi^2/\text{NDF}$ : 4922.9/1

asym\_usl\_atl1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

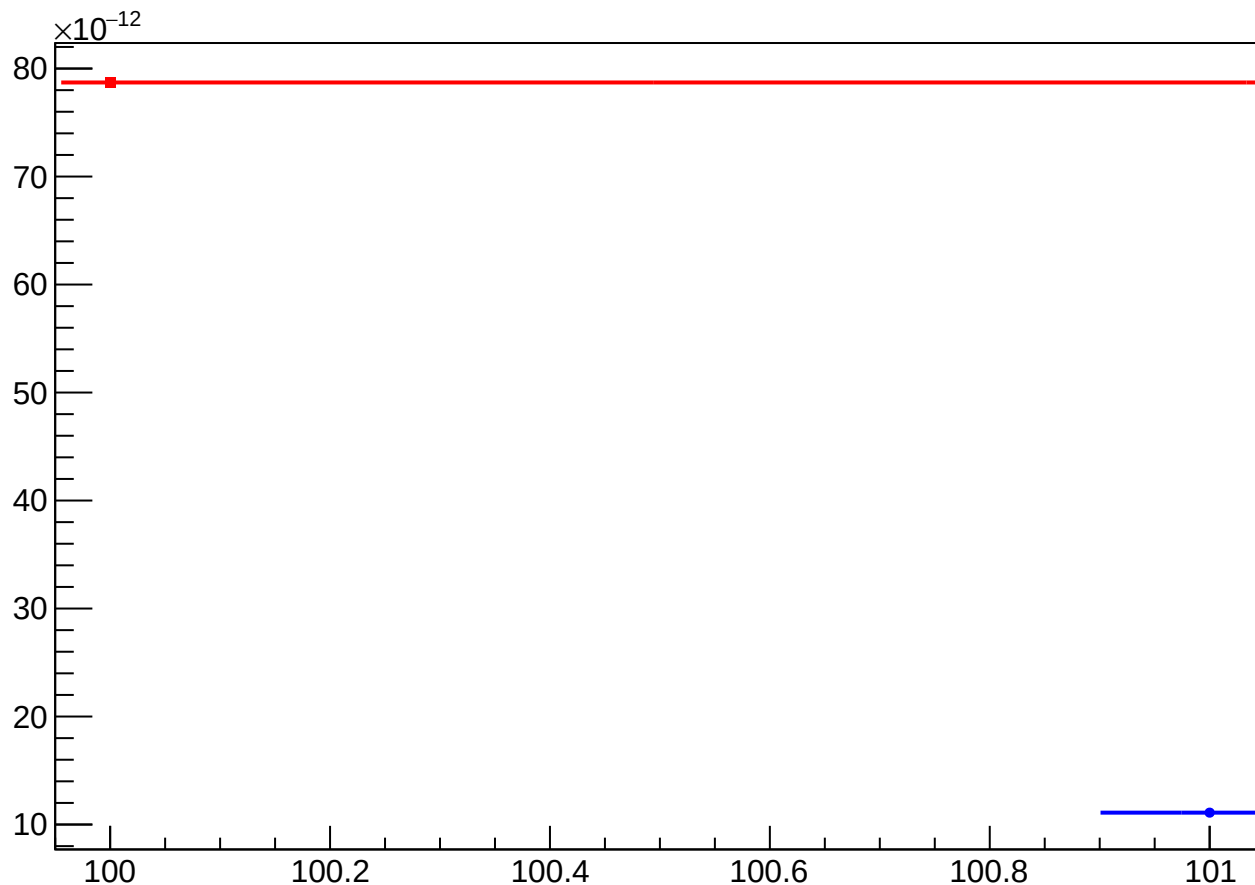
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.4/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.4/1

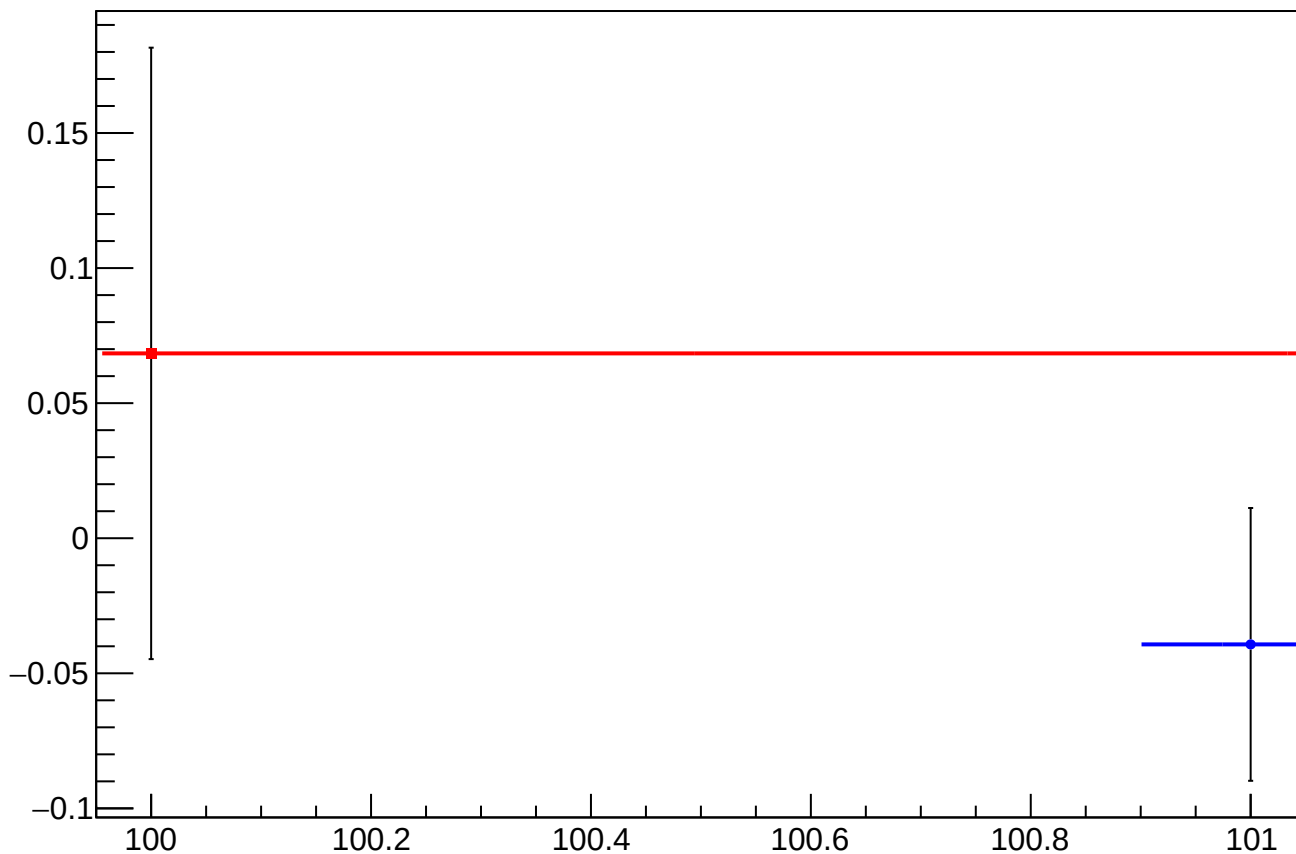
asym\_usl\_atl1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 67780.7/1  
 In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 67780.7/1

asym\_usl\_atl1\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.039 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.068 $\pm$ 0.113  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

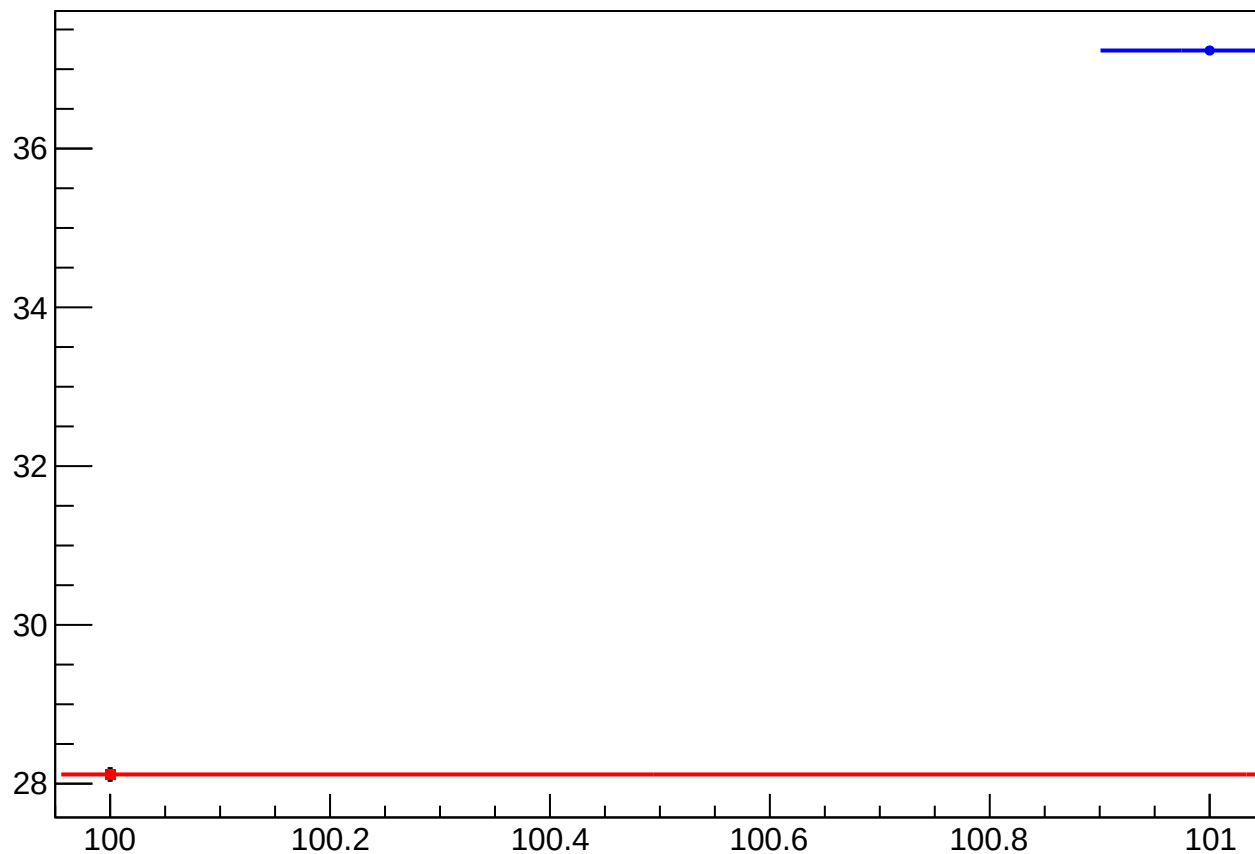
Right: -0.021 $\pm$ 0.046  $\chi^2$ /NDF: 0.8/1

In: -0.039 $\pm$ 0.050  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.021 $\pm$ 0.046  $\chi^2$ /NDF: 0.8/1

asym\_usl\_atl1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 37.235 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.116 $\pm$ 0.080  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

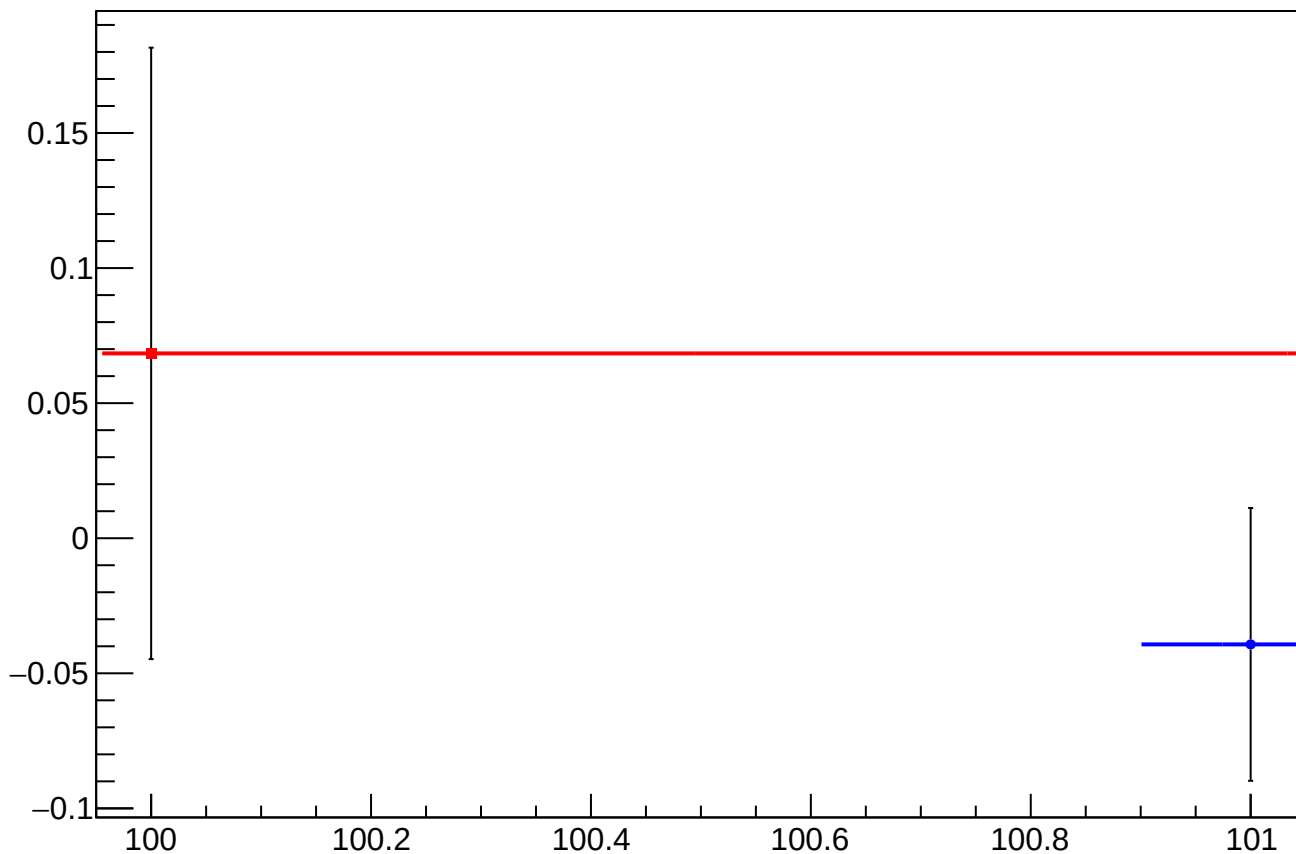
Right: 35.721 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 10829.9/1

In: 37.235 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.721 $\pm$ 0.033  $\chi^2/\text{NDF}$ : 10829.9/1

asym\_usl\_atl1\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.039 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.068 $\pm$ 0.113  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

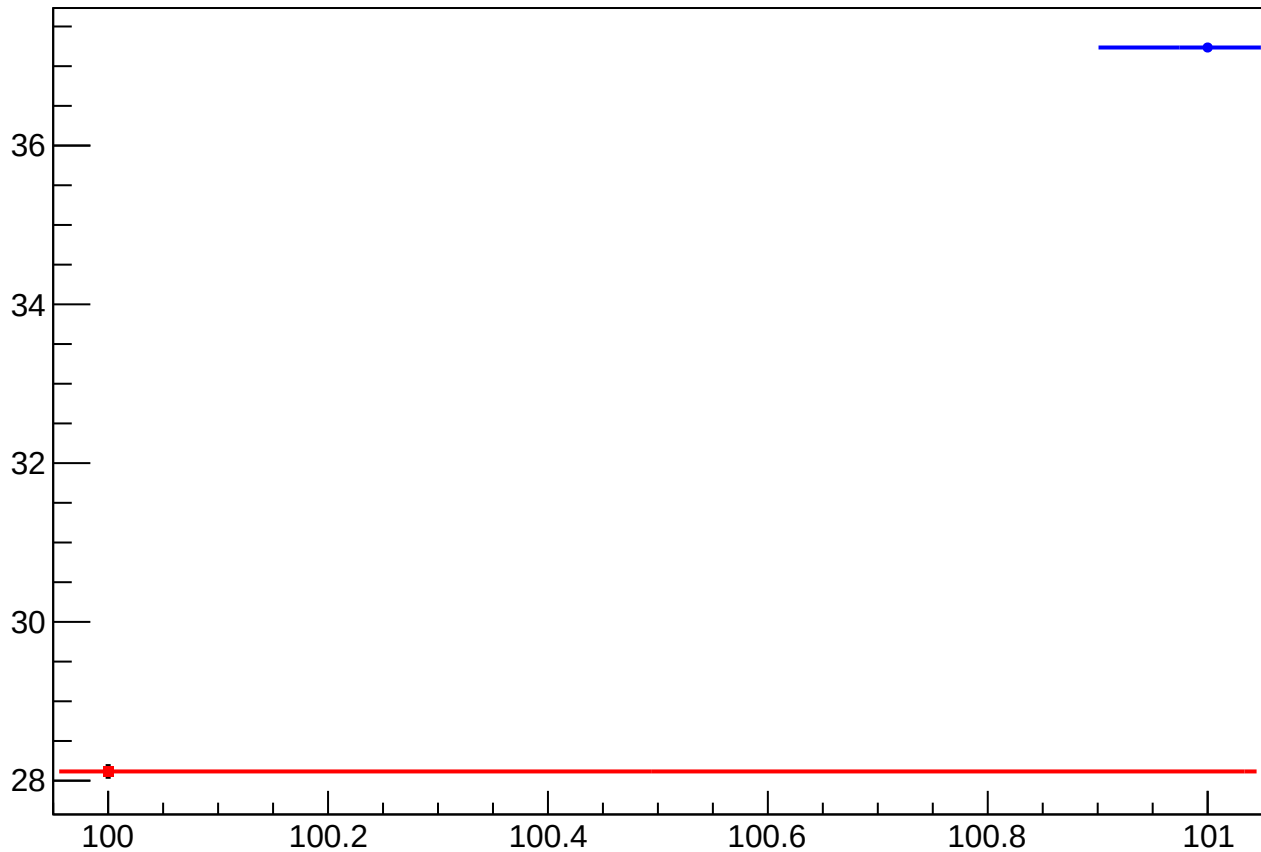
Right: -0.021 $\pm$ 0.046  $\chi^2$ /NDF: 0.8/1

In: -0.039 $\pm$ 0.050  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.021 $\pm$ 0.046  $\chi^2$ /NDF: 0.8/1

asym\_usl\_atl1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 37.235+/-0.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.116+/-0.080  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 35.721+/-0.033  $\chi^2$ /NDF: 10829.9/1

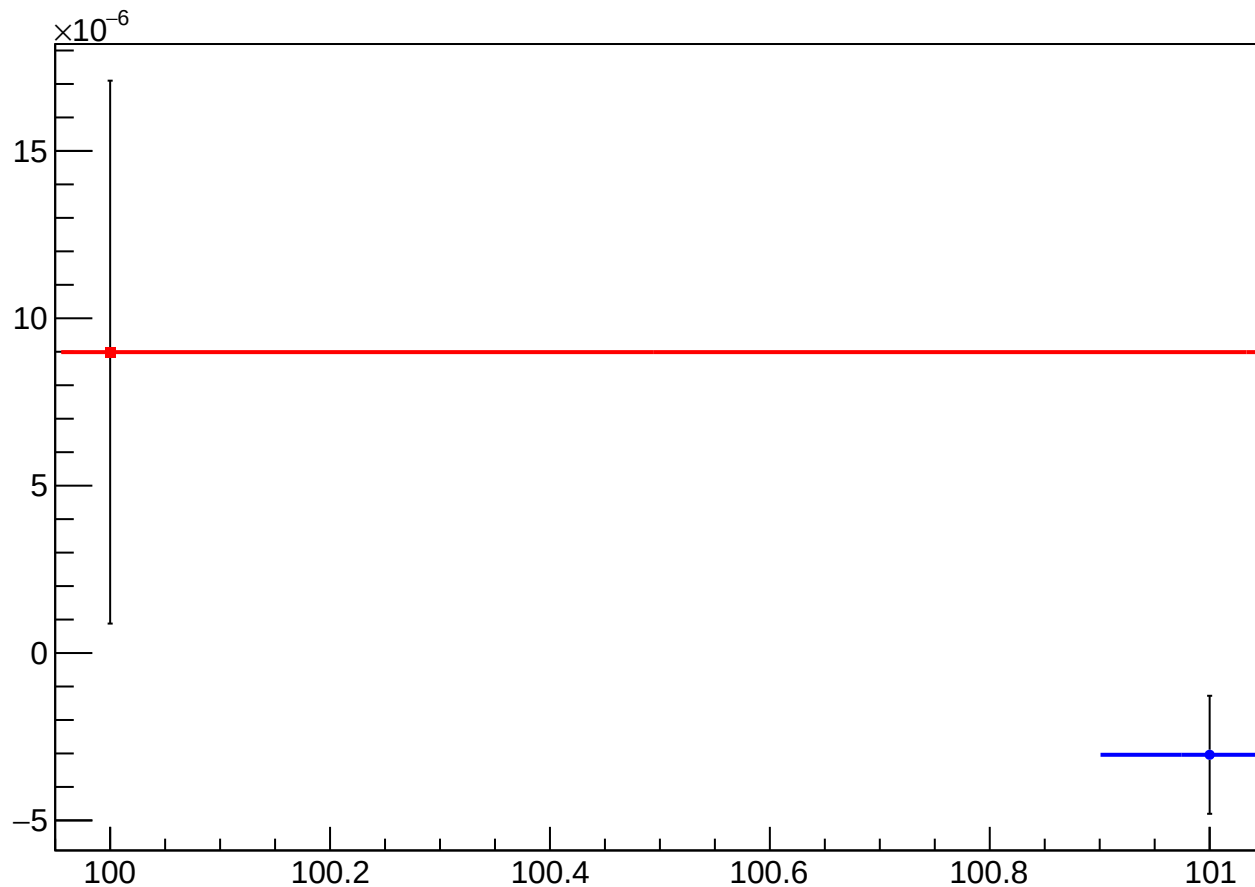
In: 37.235+/-0.036  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 35.721+/-0.033  $\chi^2$ /NDF: 10829.9/1



asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

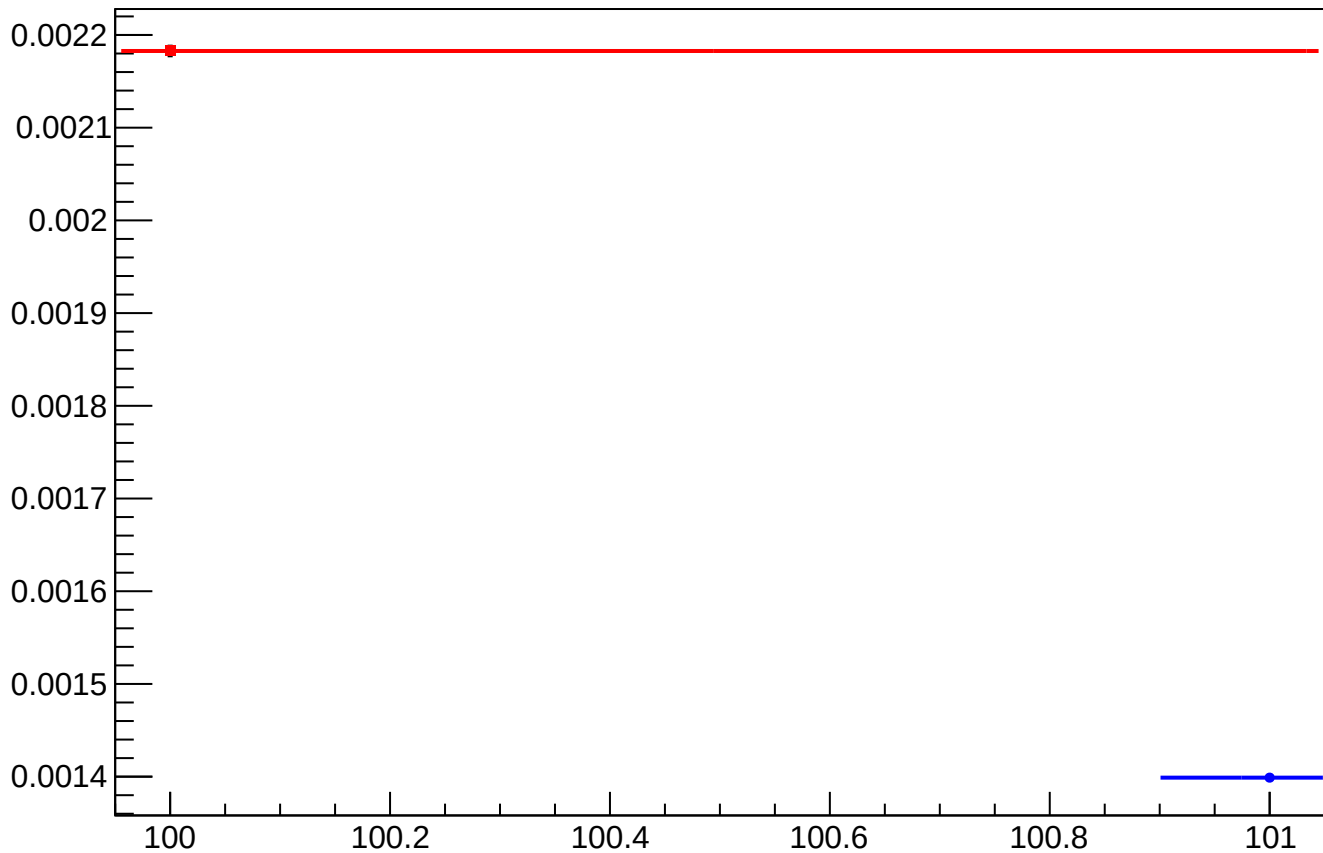
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/1

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

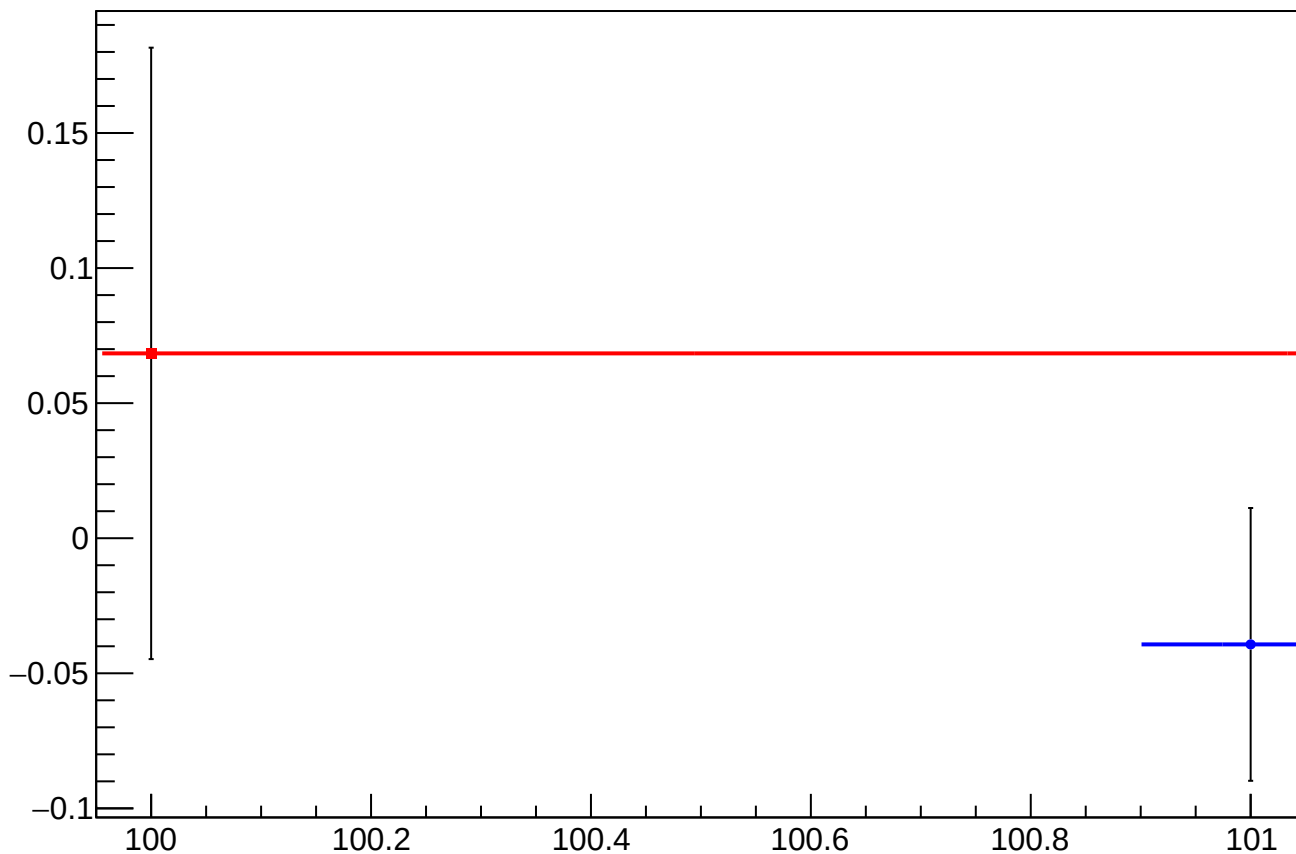
Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 17840.2/1

In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 17840.2/1

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.039 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.068 $\pm$ 0.113  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

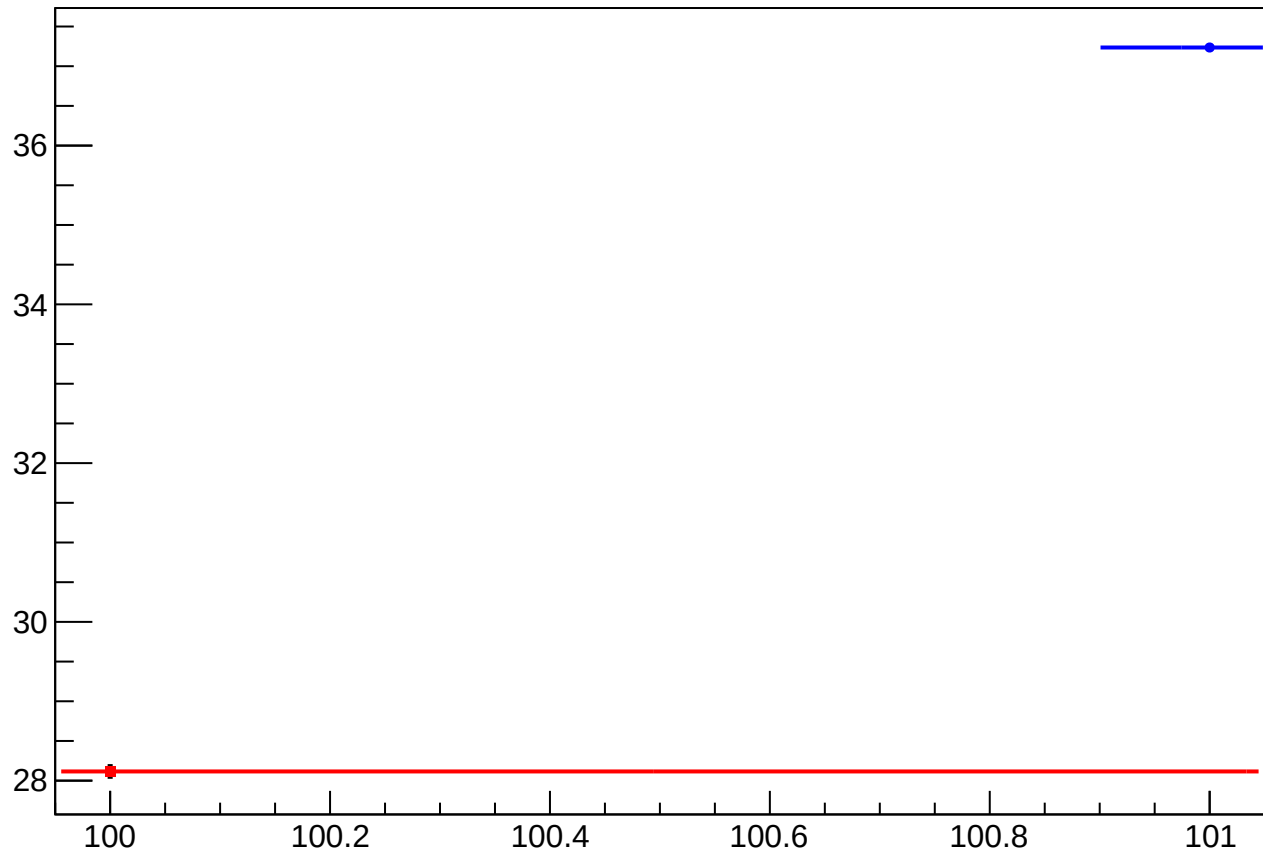
Right: -0.021 $\pm$ 0.046  $\chi^2$ /NDF: 0.8/1

In: -0.039 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.021 $\pm$ 0.046  $\chi^2$ /NDF: 0.8/1

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 37.236±/-0.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 28.116±/-0.080  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

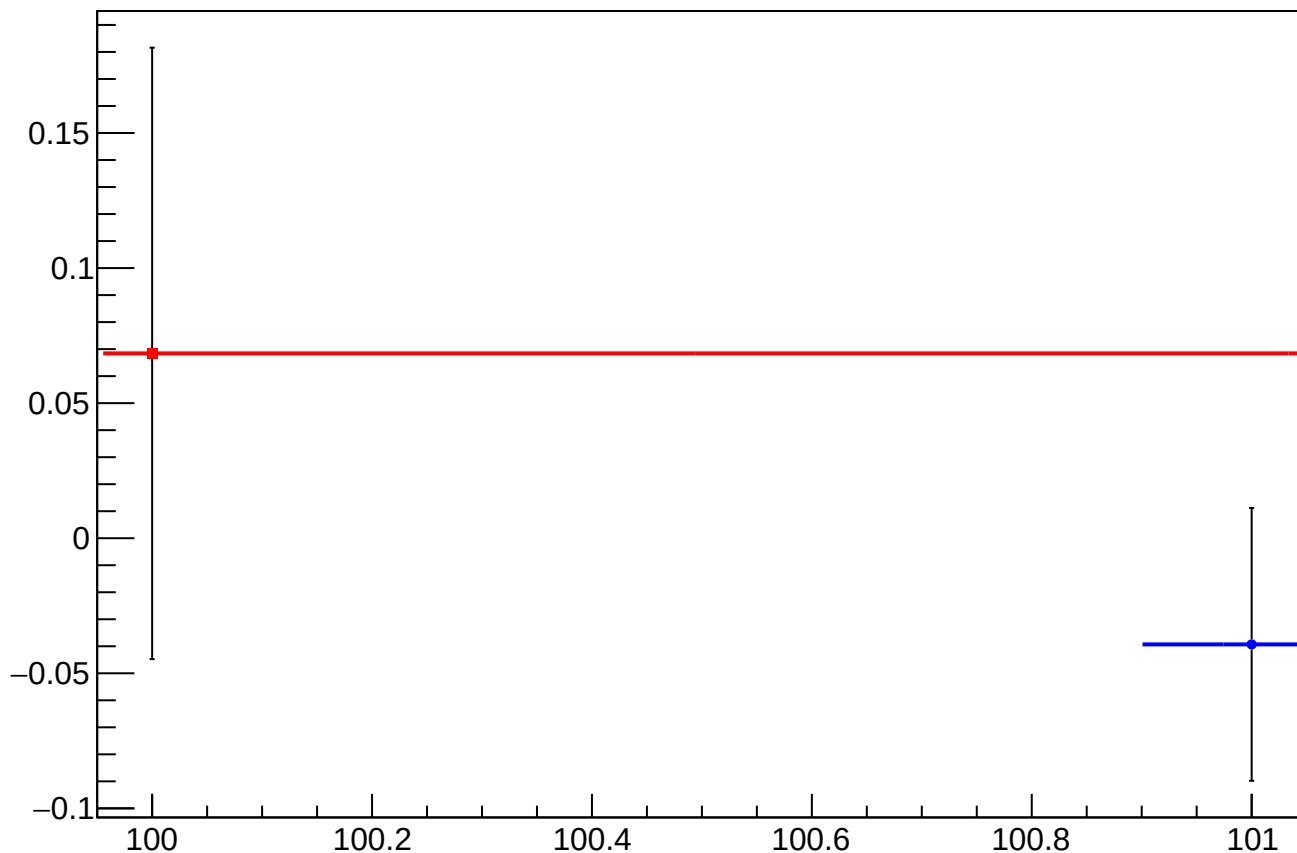
Right: 35.722±/-0.033  $\chi^2$ /NDF: 10831.6/1

In: 37.236±/-0.036  $\chi^2$ /NDF:0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

All: 35.722±/-0.033  $\chi^2$ /NDF: 10831.6/1

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.039+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.068+/-0.113  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

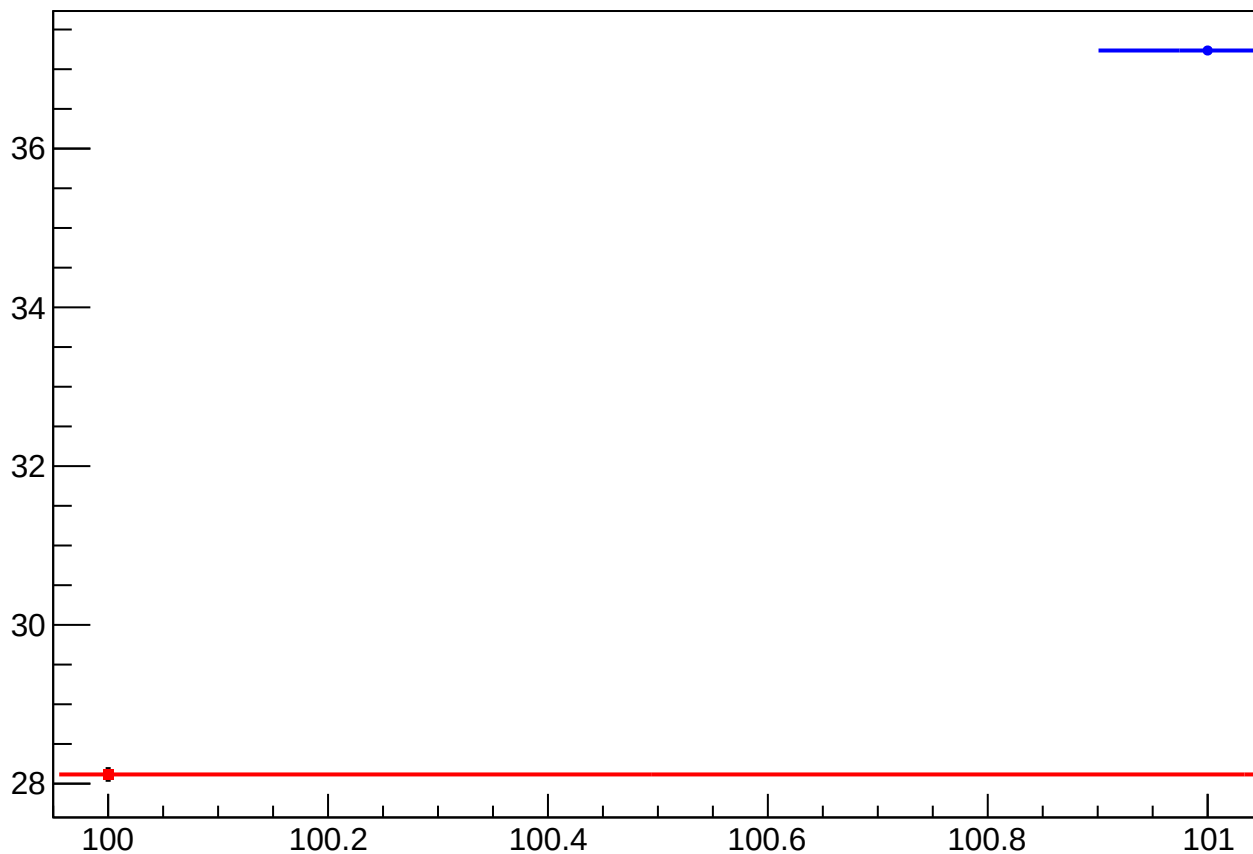
Right: -0.021+/-0.046  $\chi^2/\text{NDF}$ : 0.8/1

In: -0.039+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.021+/-0.046  $\chi^2/\text{NDF}$ : 0.8/1

asym\_usl\_atl1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 37.236 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.116 $\pm$ 0.080  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

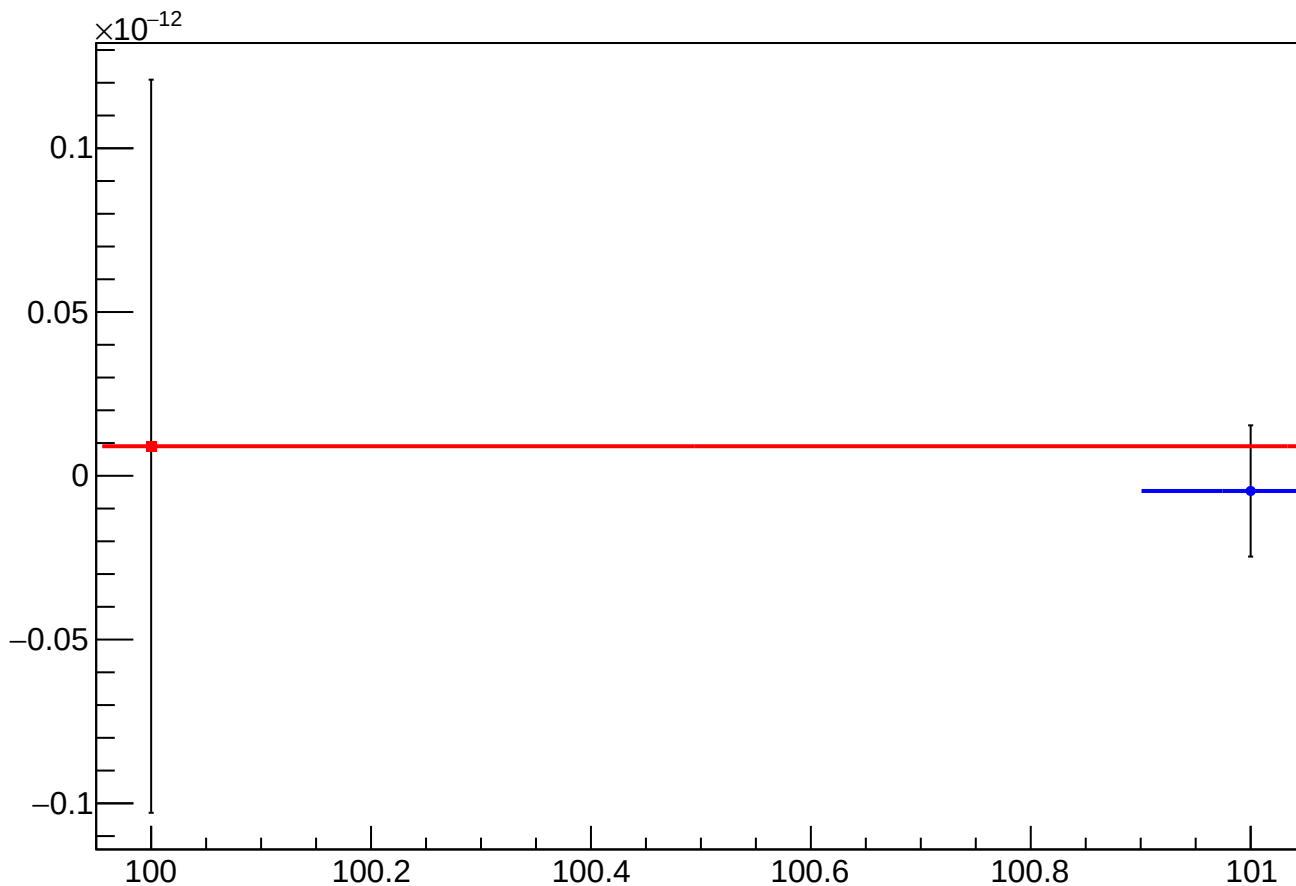
Right: 35.722 $\pm$ 0.033  $\chi^2$ /NDF: 10831.6/1

In: 37.236 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 35.722 $\pm$ 0.033  $\chi^2$ /NDF: 10831.6/1

asym\_usl\_atl1\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

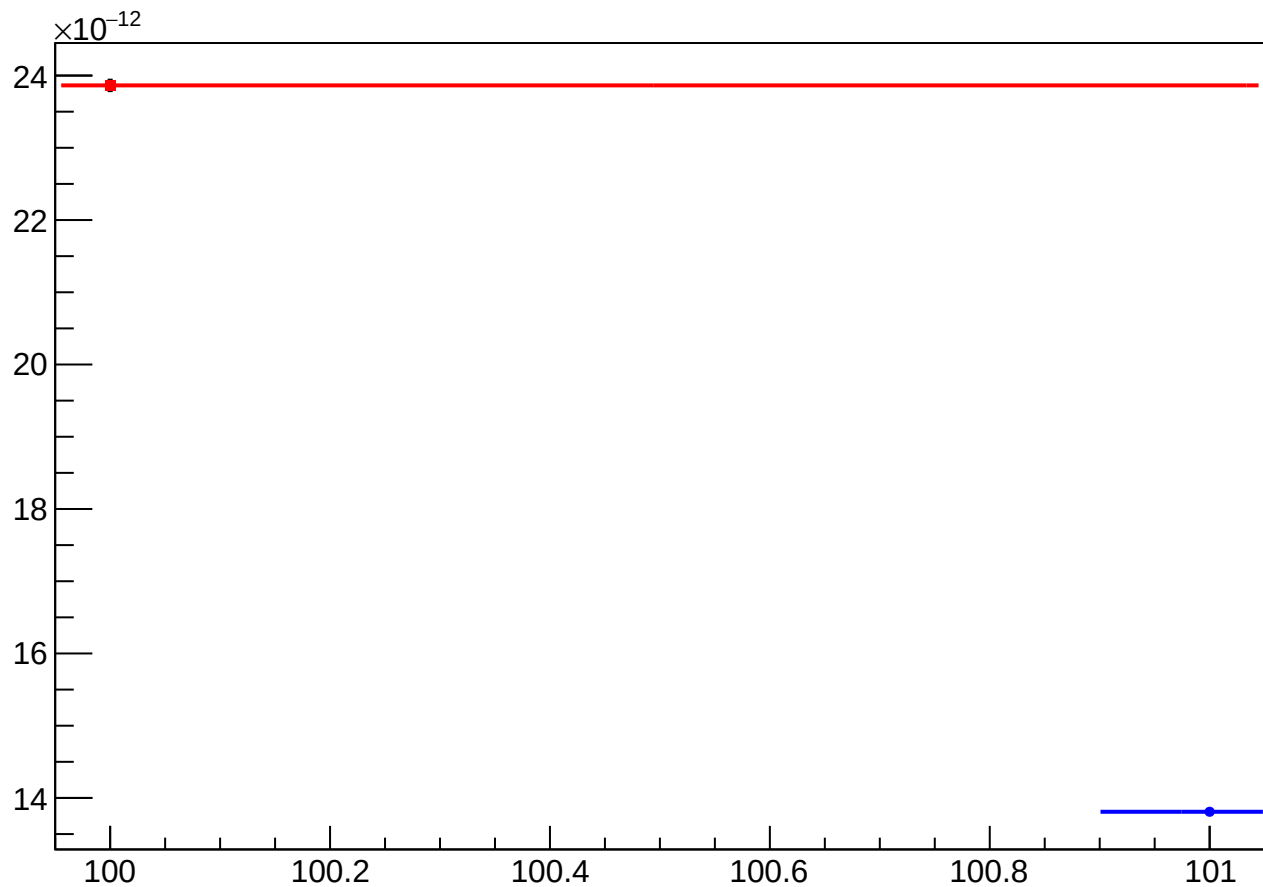
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usl\_atl1\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15643.3/1

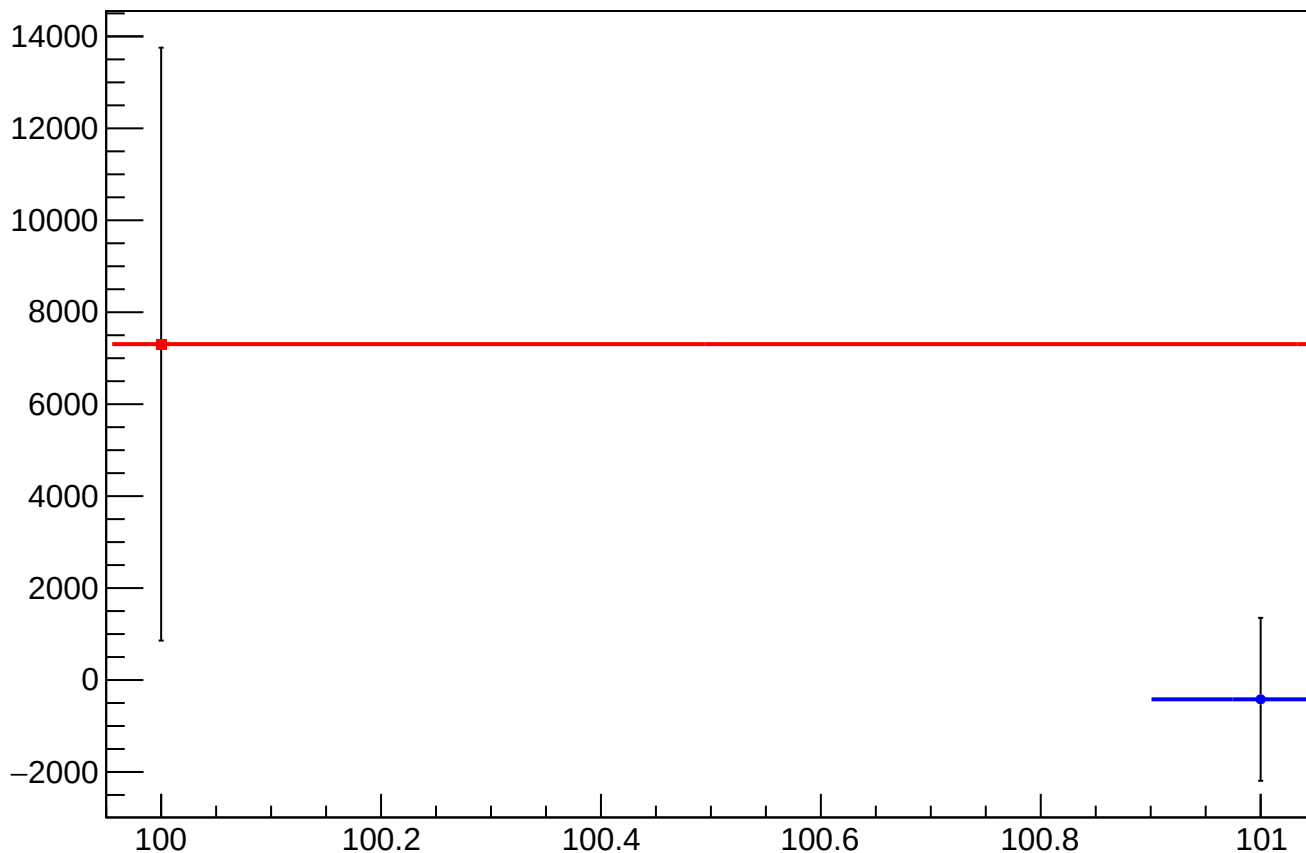
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15643.3/1



# reg\_asym\_usl\_atl1\_dd\_mean vs Slug, Sign Corrected



Right In: -419.791+/-1772.115  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7306.463+/-6448.299  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

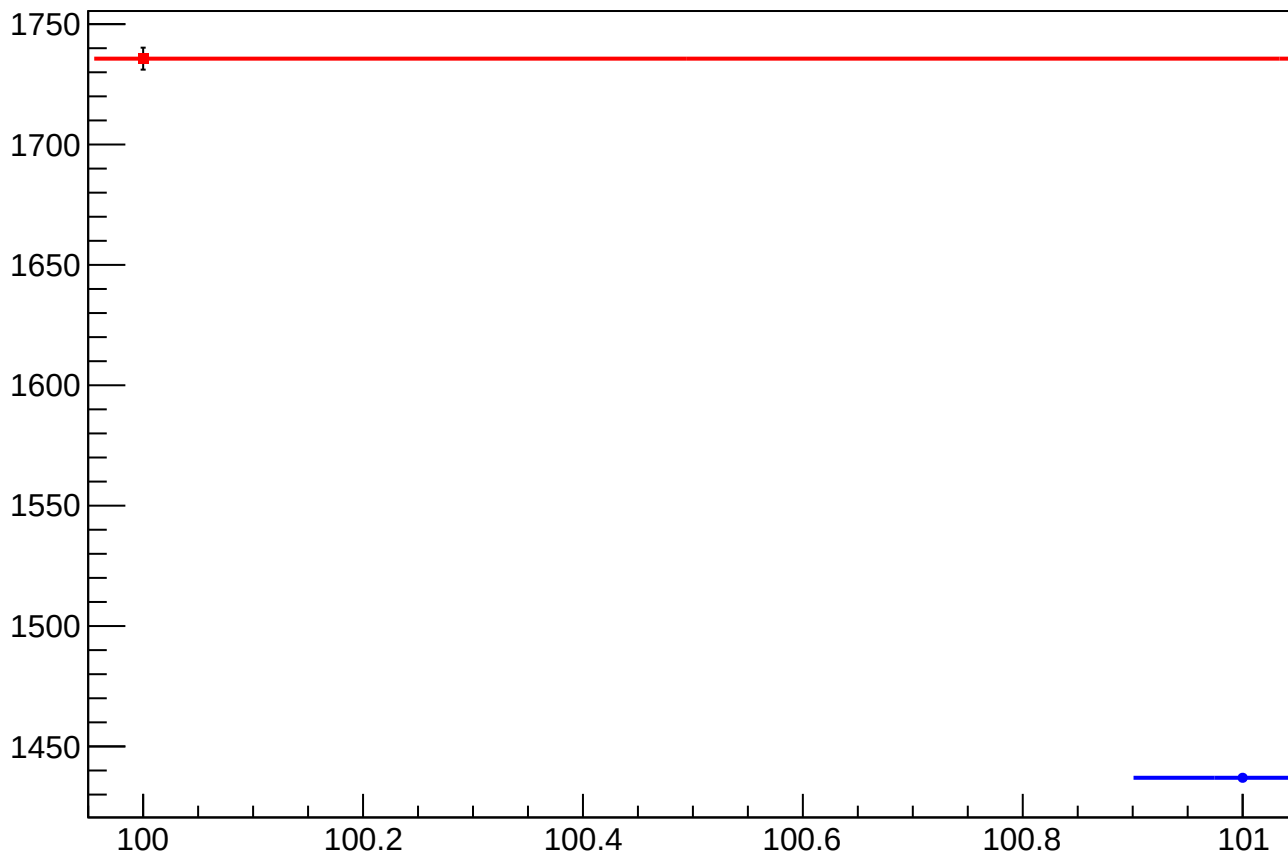
Right: 122.761+/-1708.762  $\chi^2/\text{NDF}$ : 1.3/1

In: -419.791+/-1772.115  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.761+/-1708.762  $\chi^2/\text{NDF}$ : 1.3/1

# reg\_asym\_usl\_atl1\_dd\_rms vs Slug, Sign Corrected



Right In: 1436.976+/-1.253  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1735.662+/-4.560  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

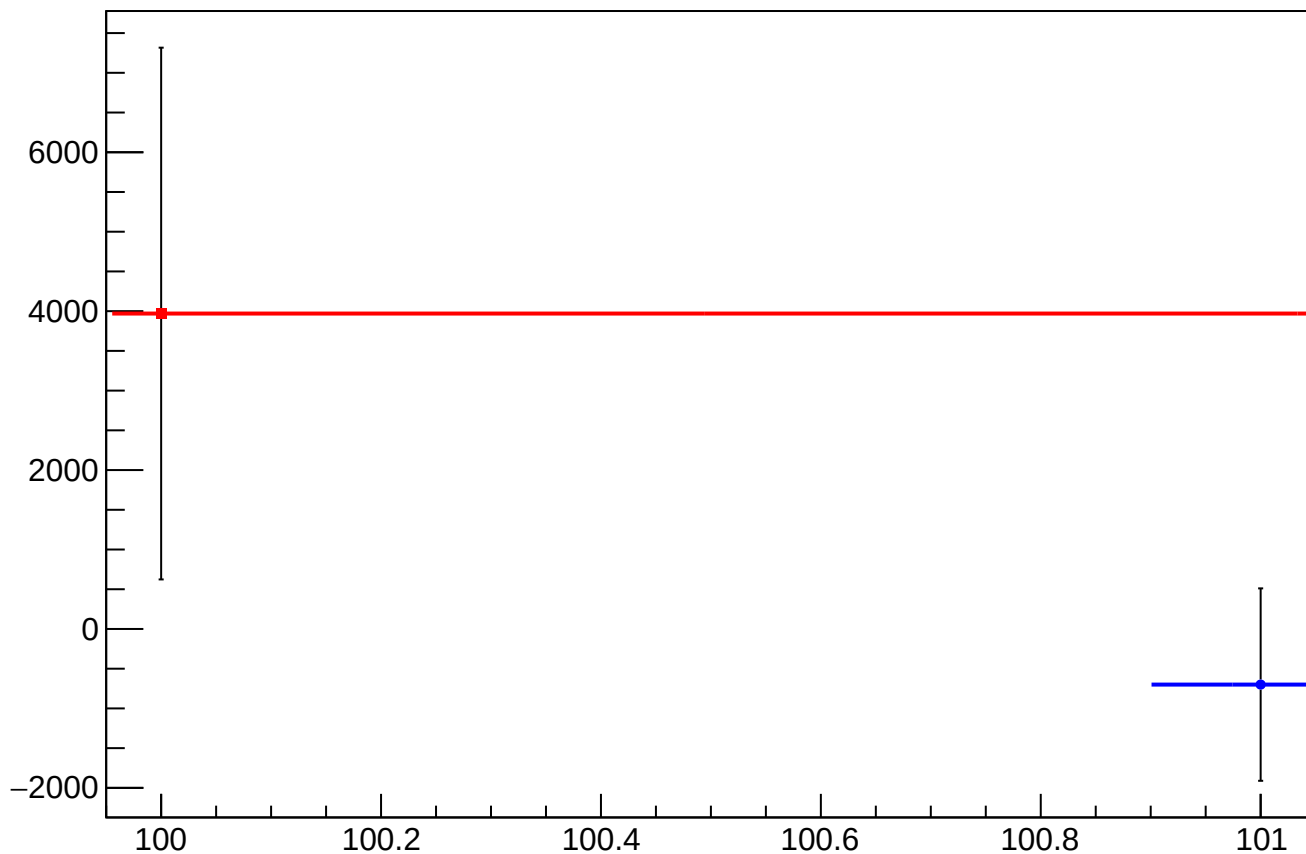
Right: 1457.951+/-1.208  $\chi^2/\text{NDF}$ : 3989.8/1

In: 1436.976+/-1.253  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1457.951+/-1.208  $\chi^2/\text{NDF}$ : 3989.8/1

asym\_usl\_atl1\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -700.076+/-1210.958  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3969.919+/-3346.453  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

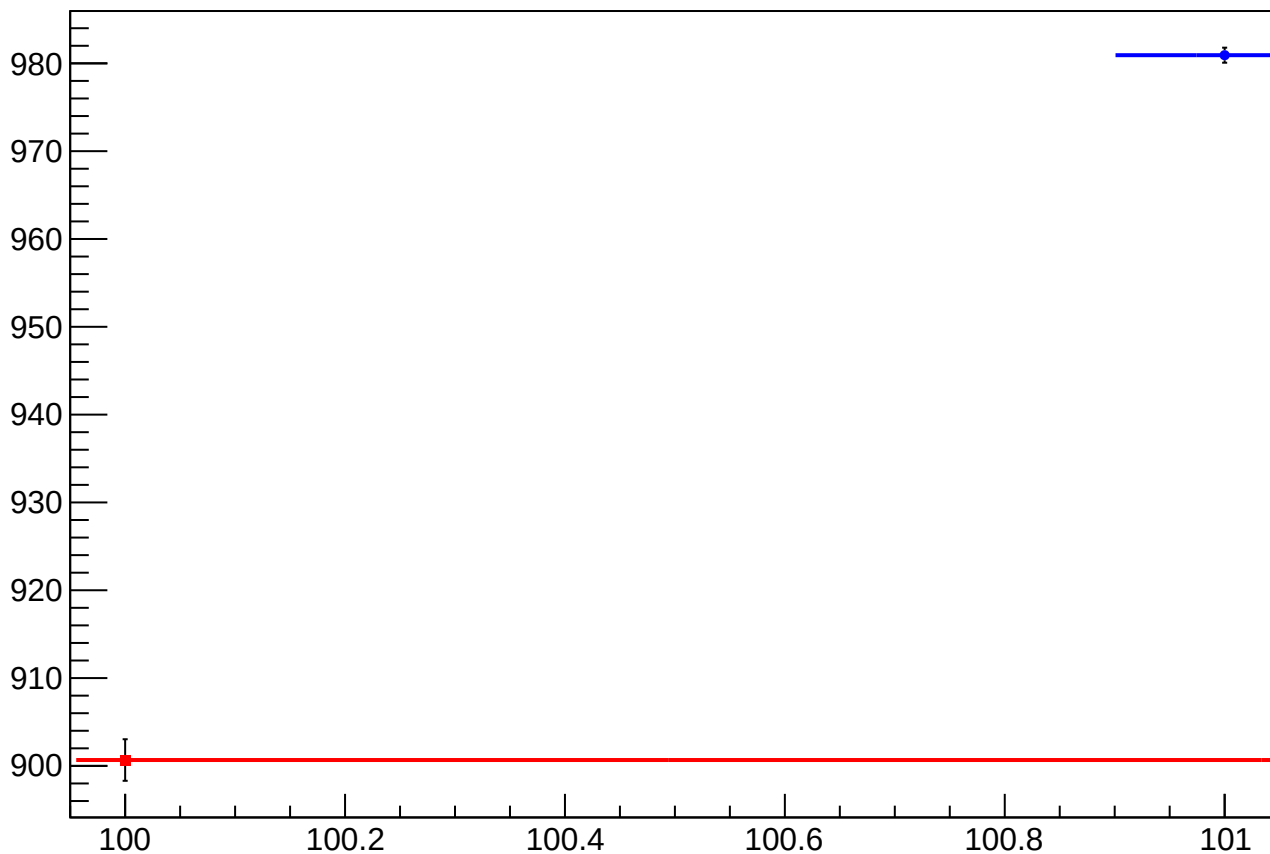
Right: -159.366+/-1138.698  $\chi^2/\text{NDF}$ : 1.7/1

In: -700.076+/-1210.958  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -159.366+/-1138.698  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usl\_atl1\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 980.929+/-0.856  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 900.669+/-2.366  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

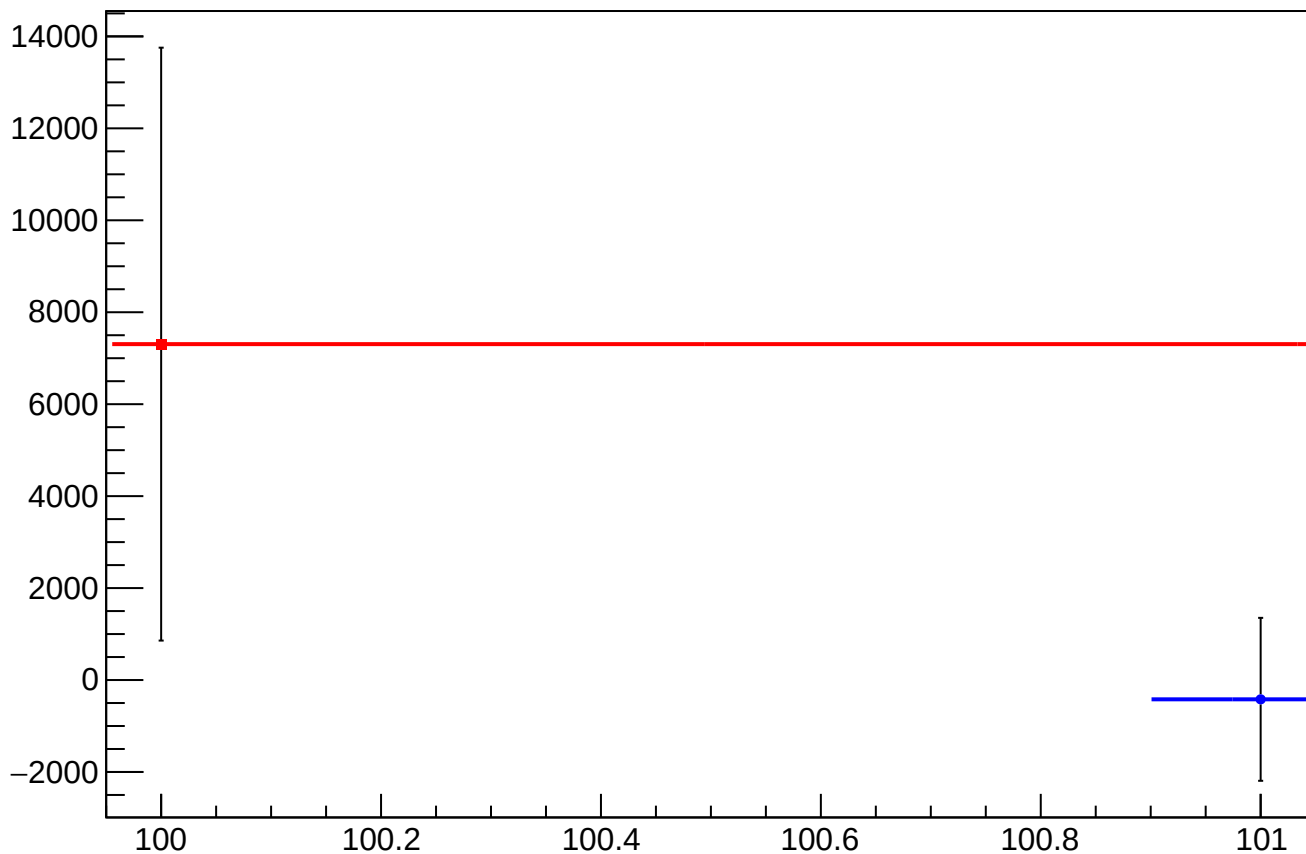
Right: 971.636+/-0.805  $\chi^2/\text{NDF}$ : 1017.2/1

In: 980.929+/-0.856  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 971.636+/-0.805  $\chi^2/\text{NDF}$ : 1017.2/1

cor\_asym\_usl\_atl1\_dd\_mean vs Slug, Sign Corrected



Right In: -419.827+/-1772.115  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7306.399+/-6448.299  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

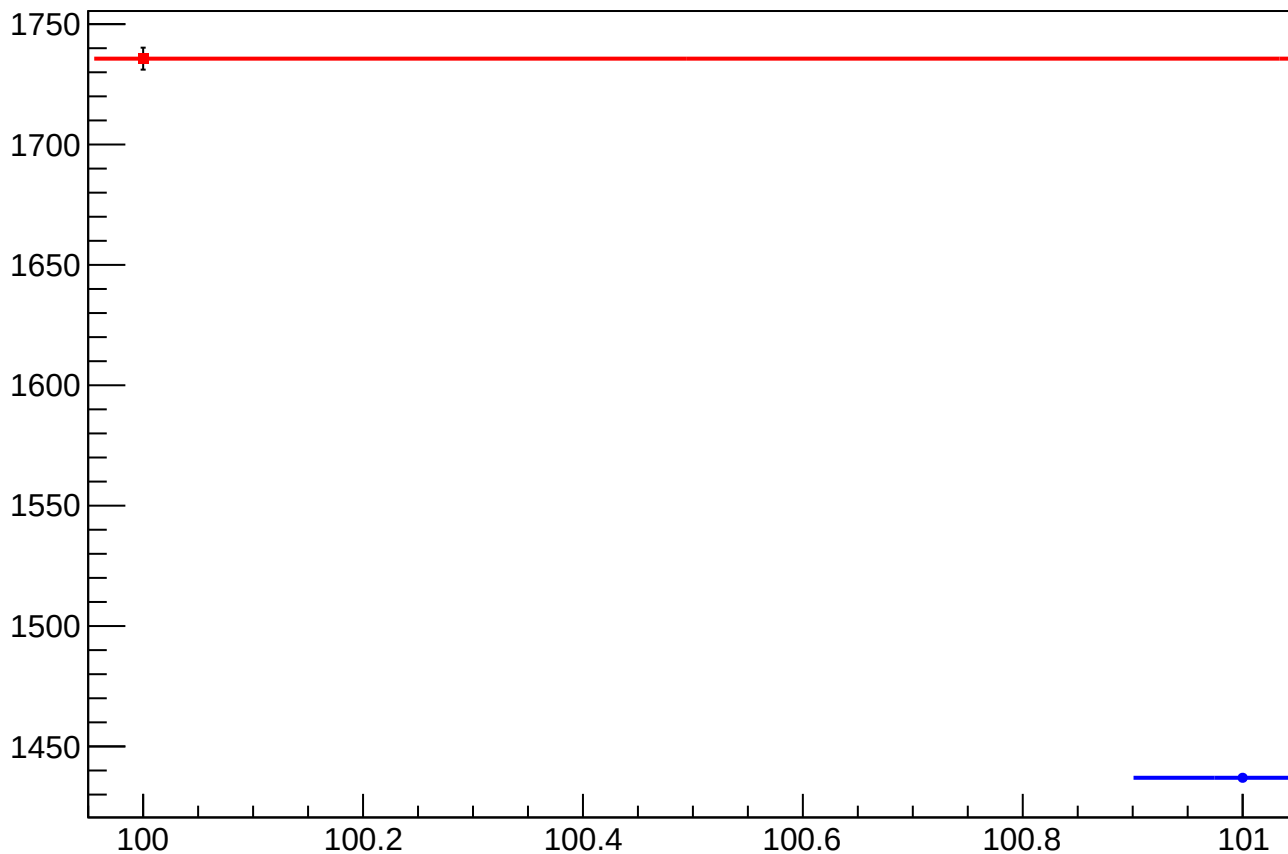
Right: 122.723+/-1708.762  $\chi^2/\text{NDF}$ : 1.3/1

In: -419.827+/-1772.115  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.723+/-1708.762  $\chi^2/\text{NDF}$ : 1.3/1

# cor\_asym\_usl\_atl1\_dd\_rms vs Slug, Sign Corrected



Right In: 1436.976 $\pm$ 1.253  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1735.662 $\pm$ 4.560  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

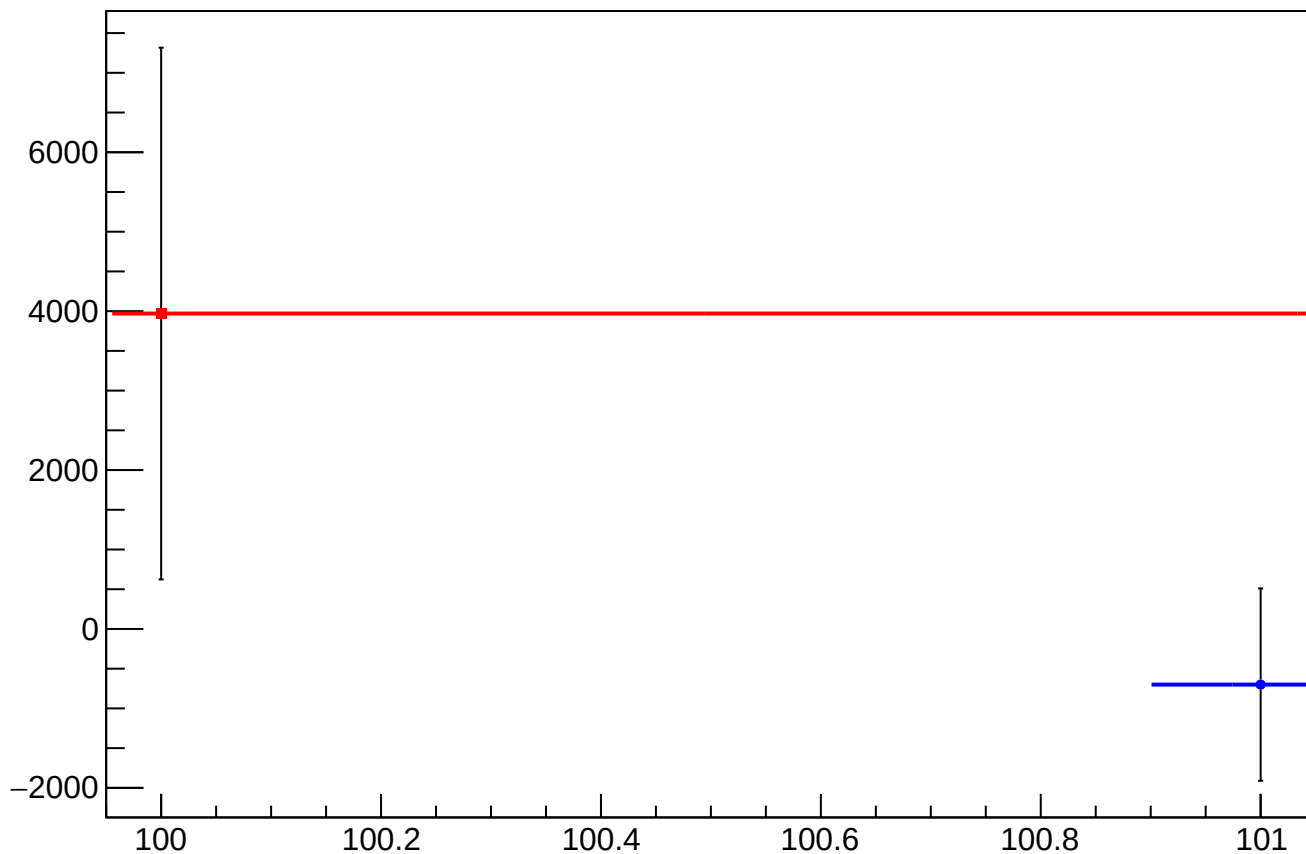
Right: 1457.951 $\pm$ 1.208  $\chi^2$ /NDF: 3989.8/1

In: 1436.976 $\pm$ 1.253  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1457.951 $\pm$ 1.208  $\chi^2$ /NDF: 3989.8/1

asym\_usl\_atl1\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -700.199+/-1210.943  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3969.863+/-3346.450  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

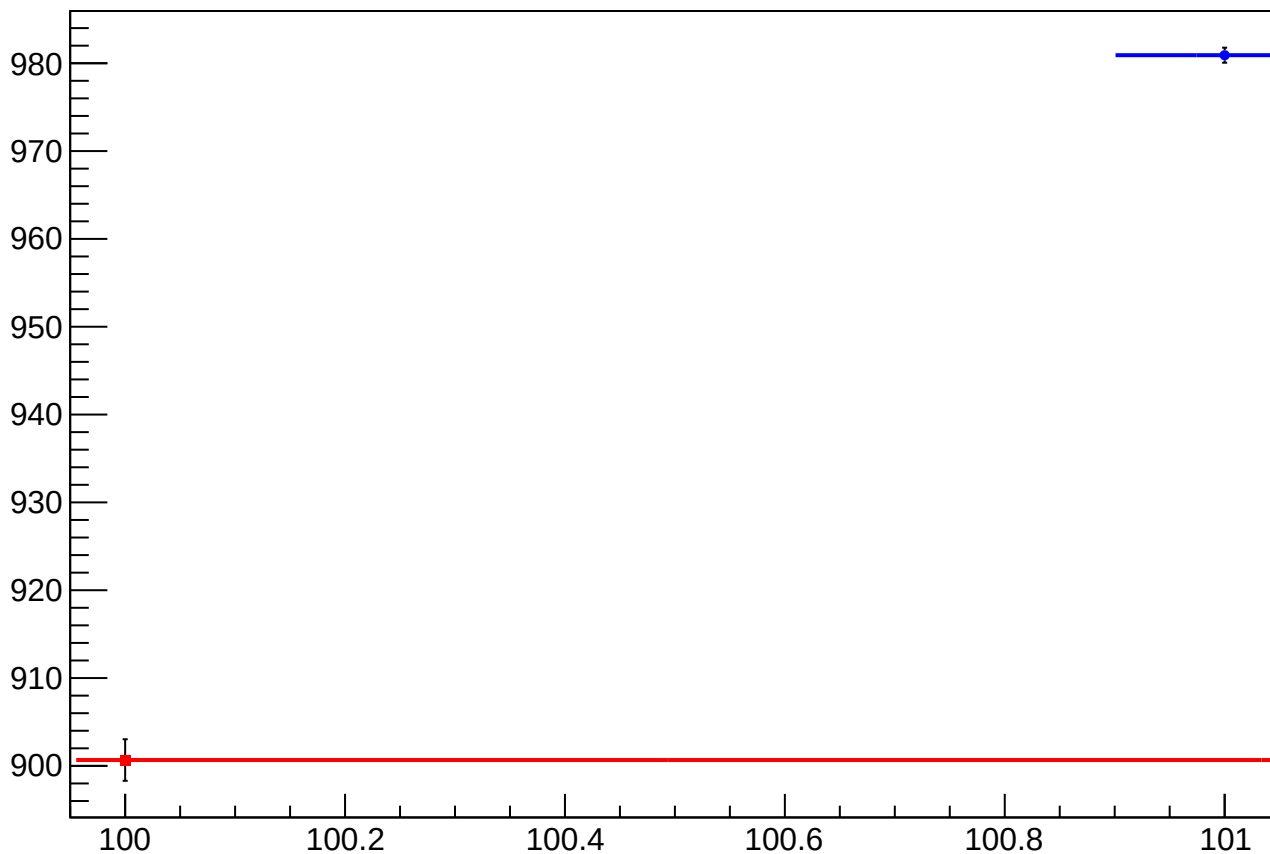
Right: -159.493+/-1138.685  $\chi^2/\text{NDF}$ : 1.7/1

In: -700.199+/-1210.943  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -159.493+/-1138.685  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usl\_atl1\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 980.916 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 900.669 $\pm$ 2.366  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 971.625 $\pm$ 0.805  $\chi^2$ /NDF: 1016.9/1

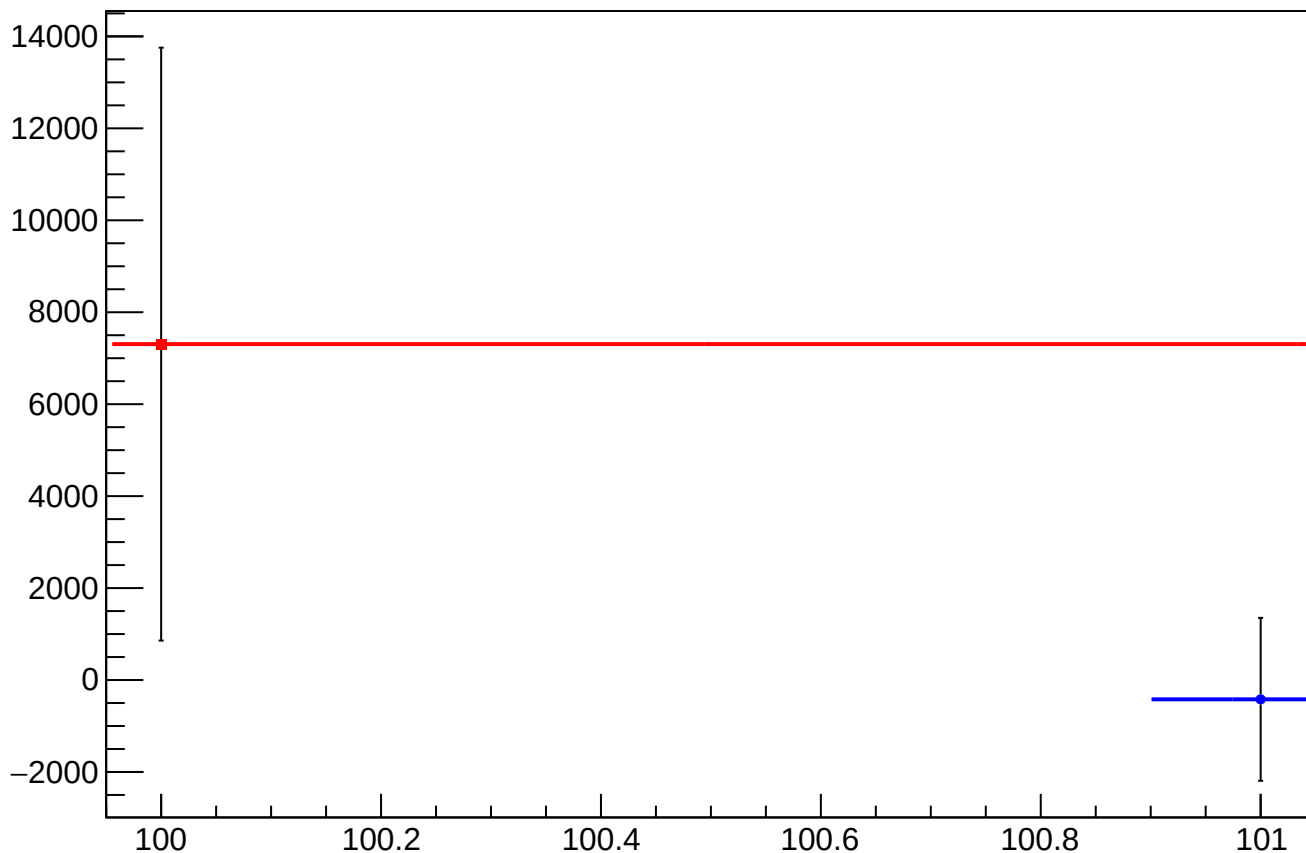
In: 980.916 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 971.625 $\pm$ 0.805  $\chi^2$ /NDF: 1016.9/1



eigen\_cor\_asym\_usl\_atl1\_dd\_mean vs Slug, Sign Corrected



Right In: -419.827+/-1772.115  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7306.399+/-6448.299  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

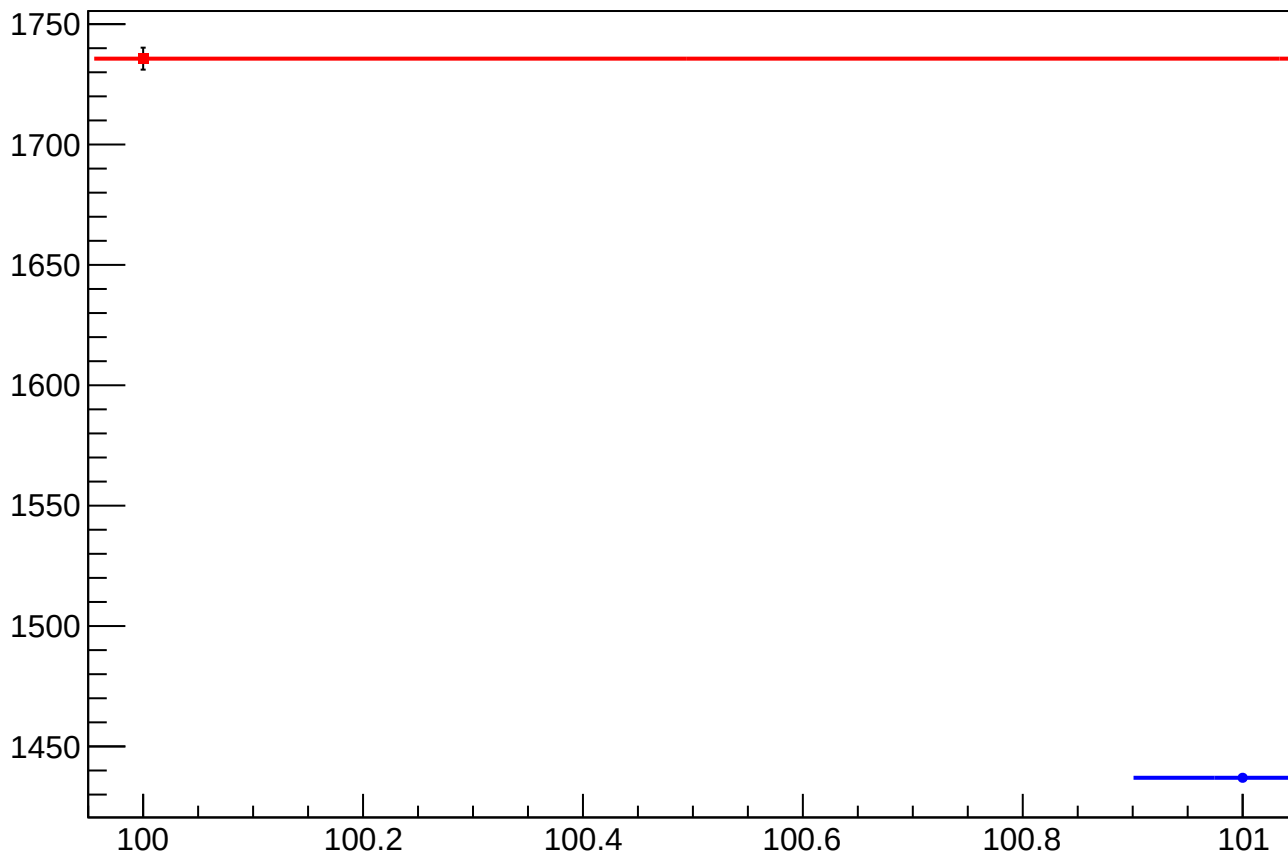
Right: 122.723+/-1708.762  $\chi^2/\text{NDF}$ : 1.3/1

In: -419.827+/-1772.115  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.723+/-1708.762  $\chi^2/\text{NDF}$ : 1.3/1

eigen\_cor\_asym\_usl\_atl1\_dd\_rms vs Slug, Sign Corrected



Right In: 1436.976+/-1.253  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1735.662+/-4.560  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

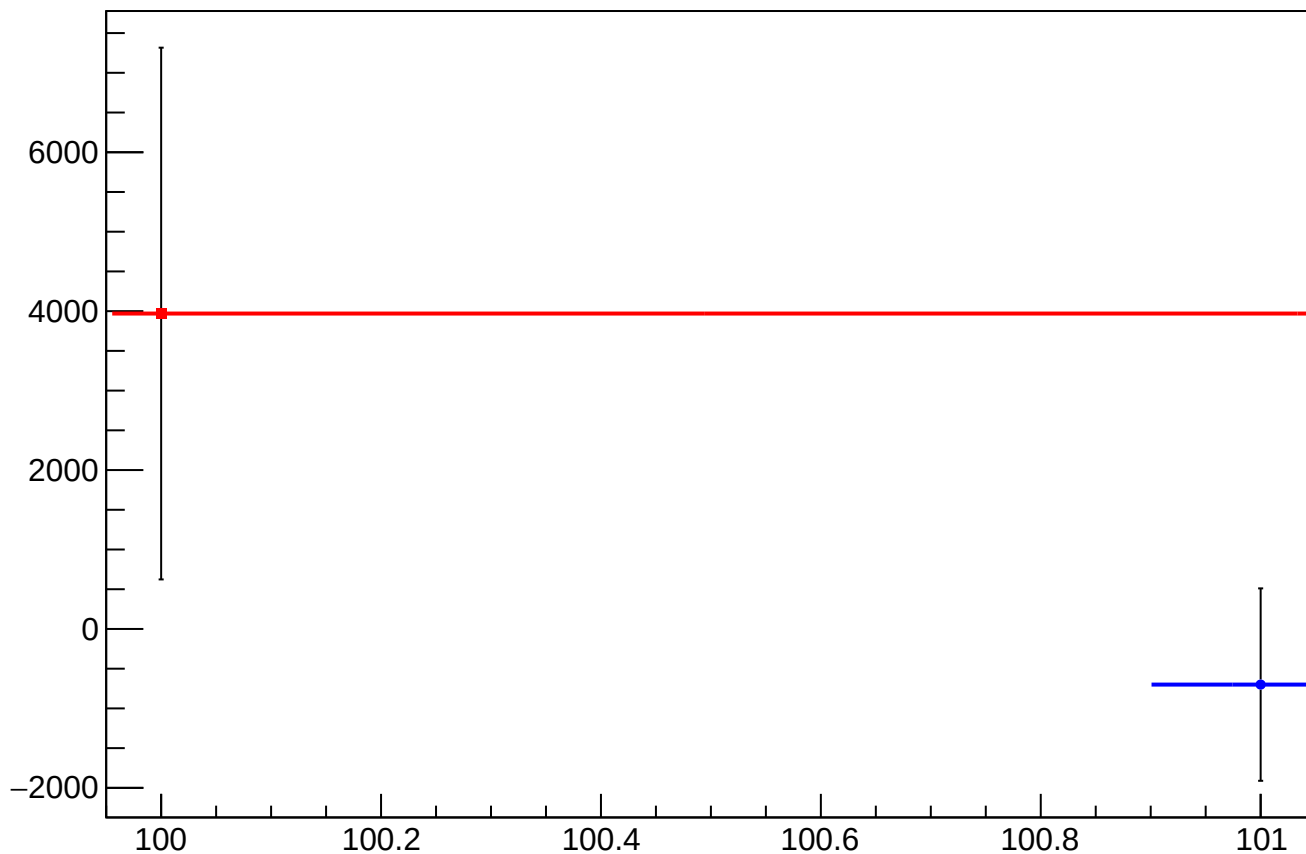
Right: 1457.951+/-1.208  $\chi^2/\text{NDF}$ : 3989.8/1

In: 1436.976+/-1.253  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1457.951+/-1.208  $\chi^2/\text{NDF}$ : 3989.8/1

asym\_usl\_atl1\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -700.199+/-1210.943  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3969.863+/-3346.450  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

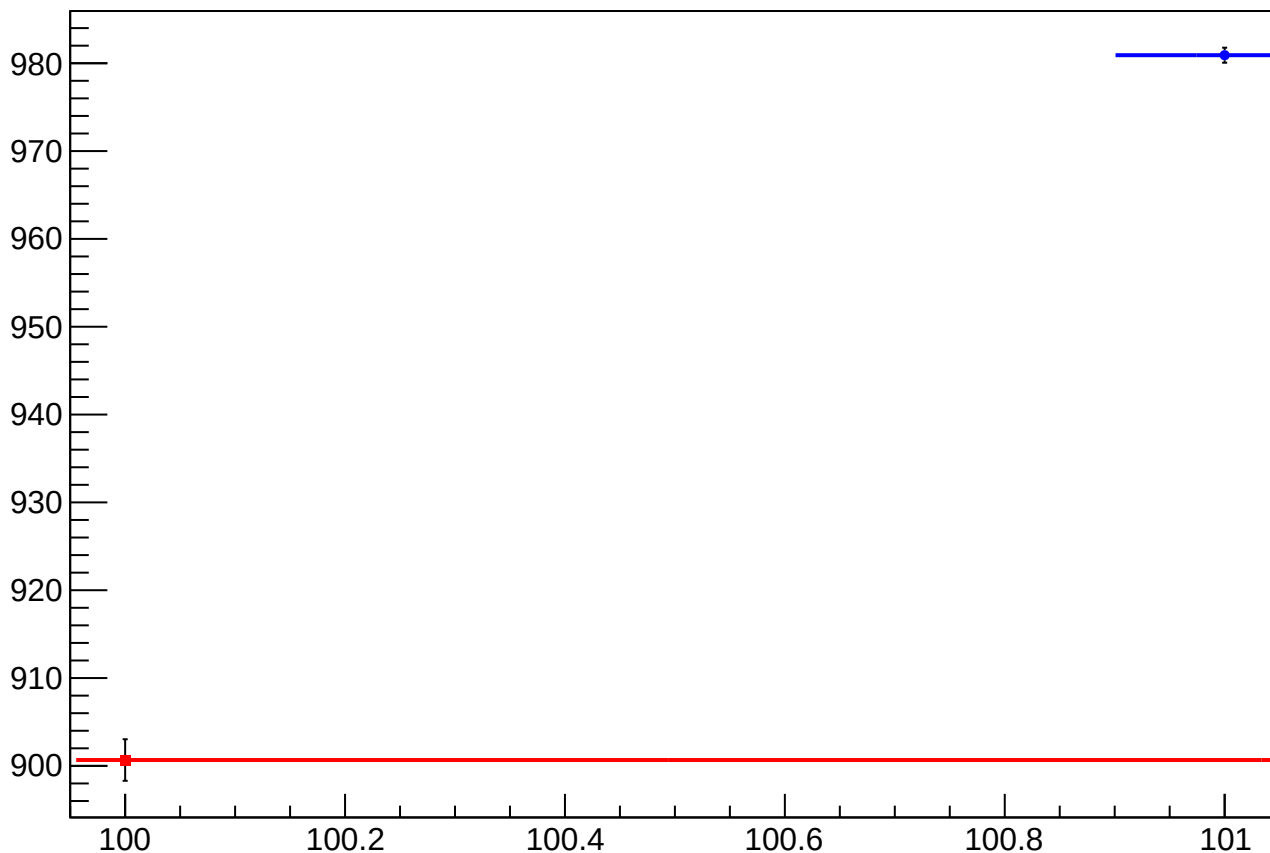
Right: -159.493+/-1138.685  $\chi^2/\text{NDF}$ : 1.7/1

In: -700.199+/-1210.943  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -159.493+/-1138.685  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usl\_atl1\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 980.916 $\pm$ 0.856  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 900.669 $\pm$ 2.366  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

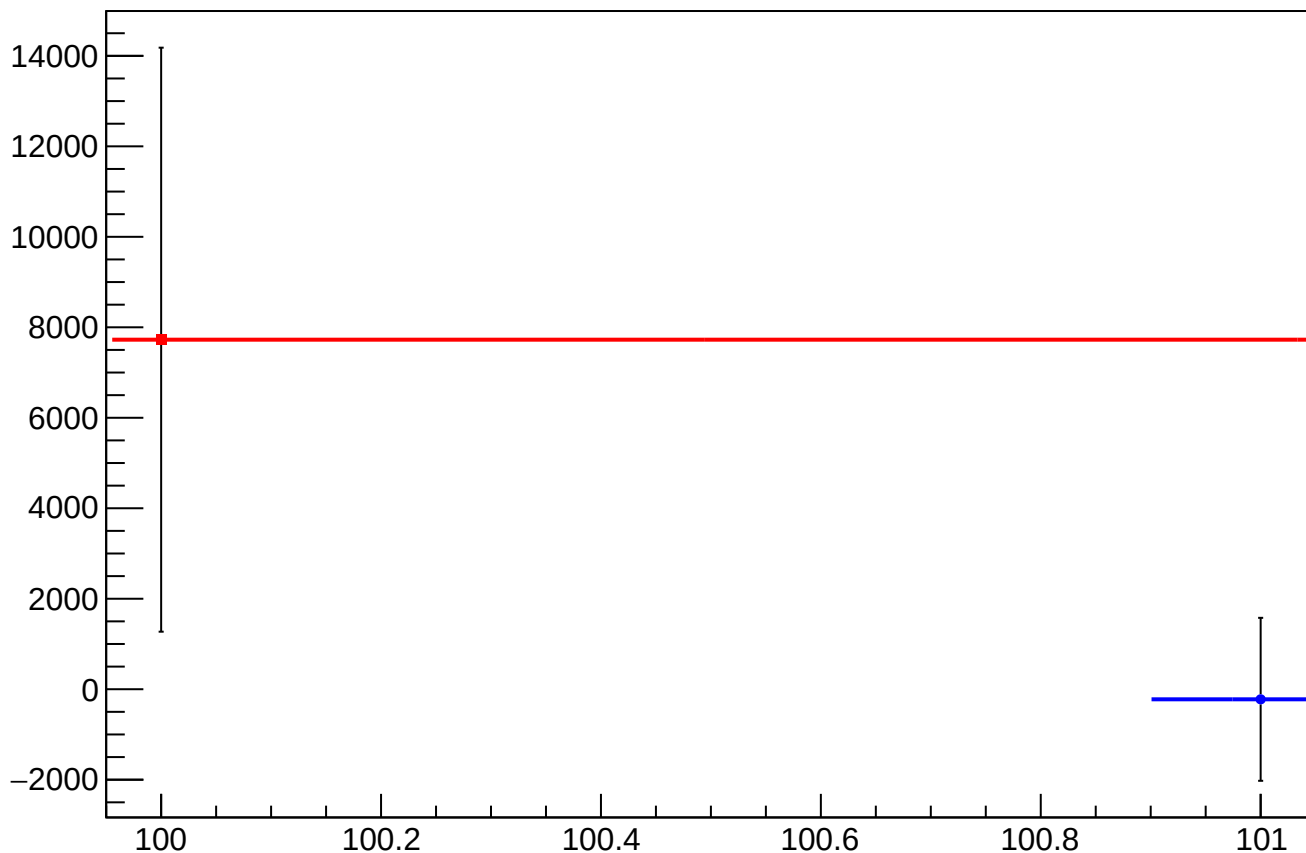
Right: 971.625 $\pm$ 0.805  $\chi^2/\text{NDF}$ : 1016.9/1

In: 980.916 $\pm$ 0.856  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 971.625 $\pm$ 0.805  $\chi^2/\text{NDF}$ : 1016.9/1

dit\_asym\_usl\_atl1\_dd\_mean vs Slug, Sign Corrected



Right In: -223.132+/-1801.107  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7726.246+/-6454.654  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

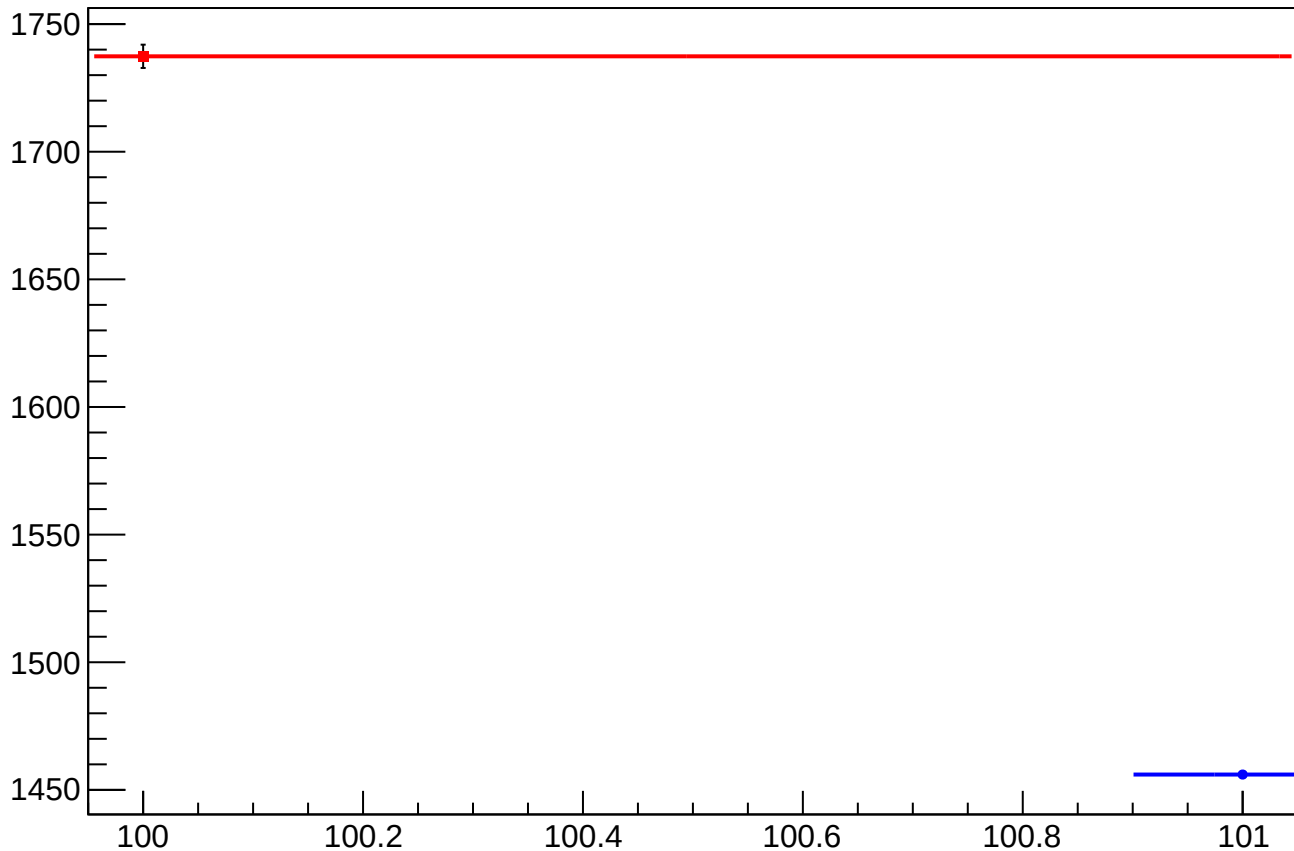
Right: 351.120+/-1734.833  $\chi^2/\text{NDF}$ : 1.4/1

In: -223.132+/-1801.107  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 351.120+/-1734.833  $\chi^2/\text{NDF}$ : 1.4/1

dit\_asym\_usl\_atl1\_dd\_rms vs Slug, Sign Corrected



Right In: 1456.008 $\pm$ 1.274  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1737.374 $\pm$ 4.564  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

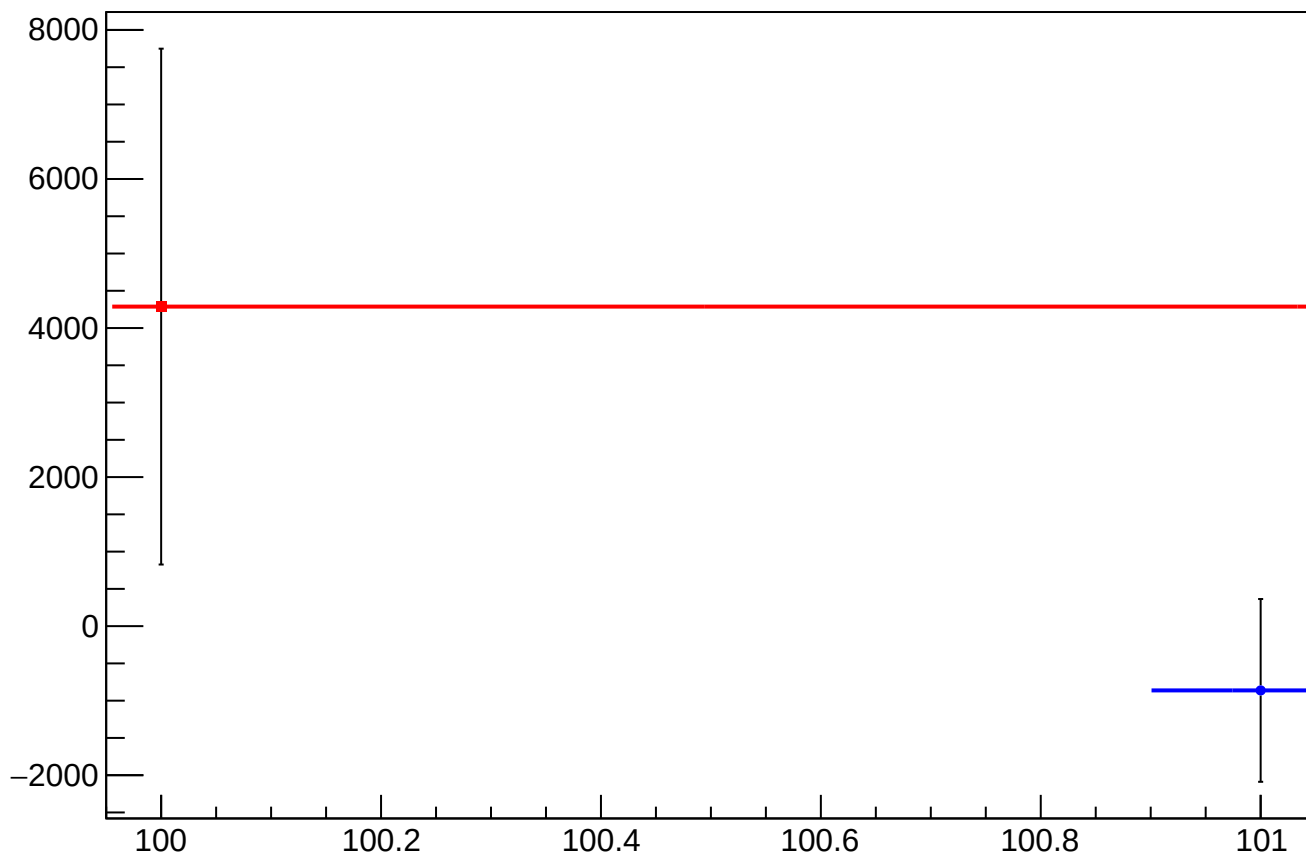
Right: 1476.333 $\pm$ 1.227  $\chi^2$ /NDF: 3525.9/1

In: 1456.008 $\pm$ 1.274  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1476.333 $\pm$ 1.227  $\chi^2$ /NDF: 3525.9/1

asym\_usl\_atl1\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -862.334+/-1226.316  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4287.734+/-3460.972  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

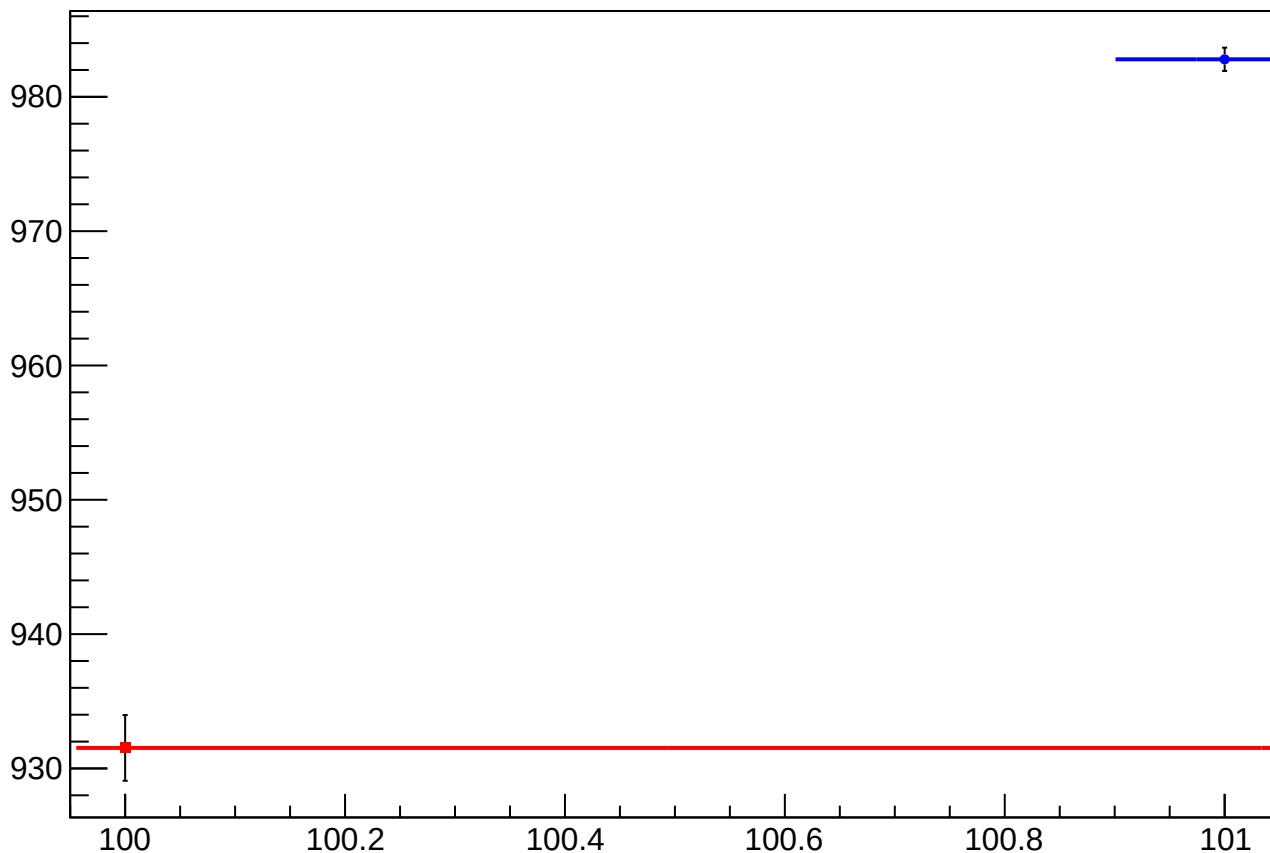
Right: -287.877+/-1155.901  $\chi^2/\text{NDF}$ : 2.0/1

In: -862.334+/-1226.316  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -287.877+/-1155.901  $\chi^2/\text{NDF}$ : 2.0/1

asym\_usl\_atl1\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 982.793 $\pm$ 0.867  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 931.527 $\pm$ 2.447  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 977.075 $\pm$ 0.817  $\chi^2/\text{NDF}$ : 389.9/1

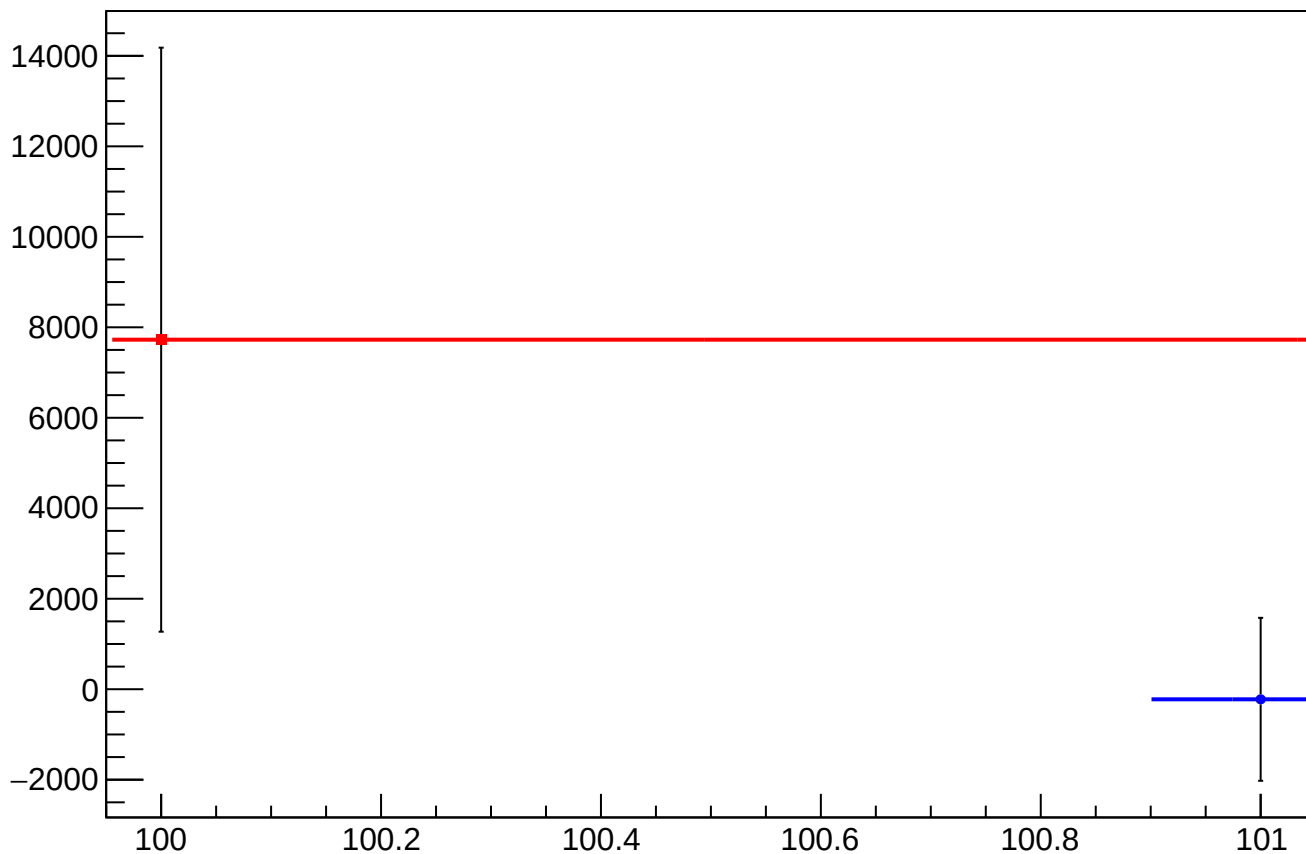
In: 982.793 $\pm$ 0.867  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 977.075 $\pm$ 0.817  $\chi^2/\text{NDF}$ : 389.9/1



eigen\_dit\_asym\_usl\_atl1\_dd\_mean vs Slug, Sign Corrected



Right In: -223.128+/-1801.107  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7726.233+/-6454.653  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

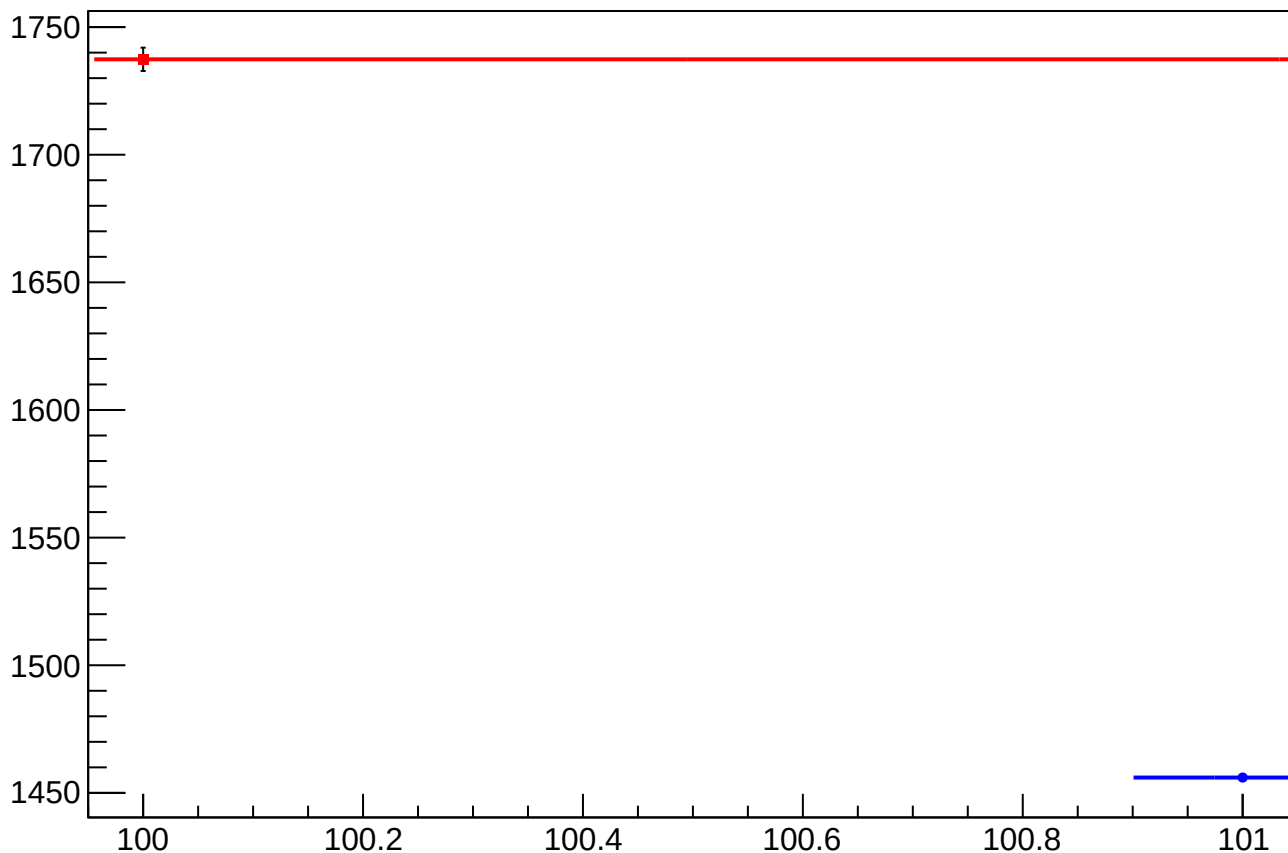
Right: 351.123+/-1734.833  $\chi^2/\text{NDF}$ : 1.4/1

In: -223.128+/-1801.107  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 351.123+/-1734.833  $\chi^2/\text{NDF}$ : 1.4/1

eigen\_dit\_asym\_usl\_atl1\_dd\_rms vs Slug, Sign Corrected



Right In: 1456.008 $\pm$ 1.274  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1737.374 $\pm$ 4.564  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

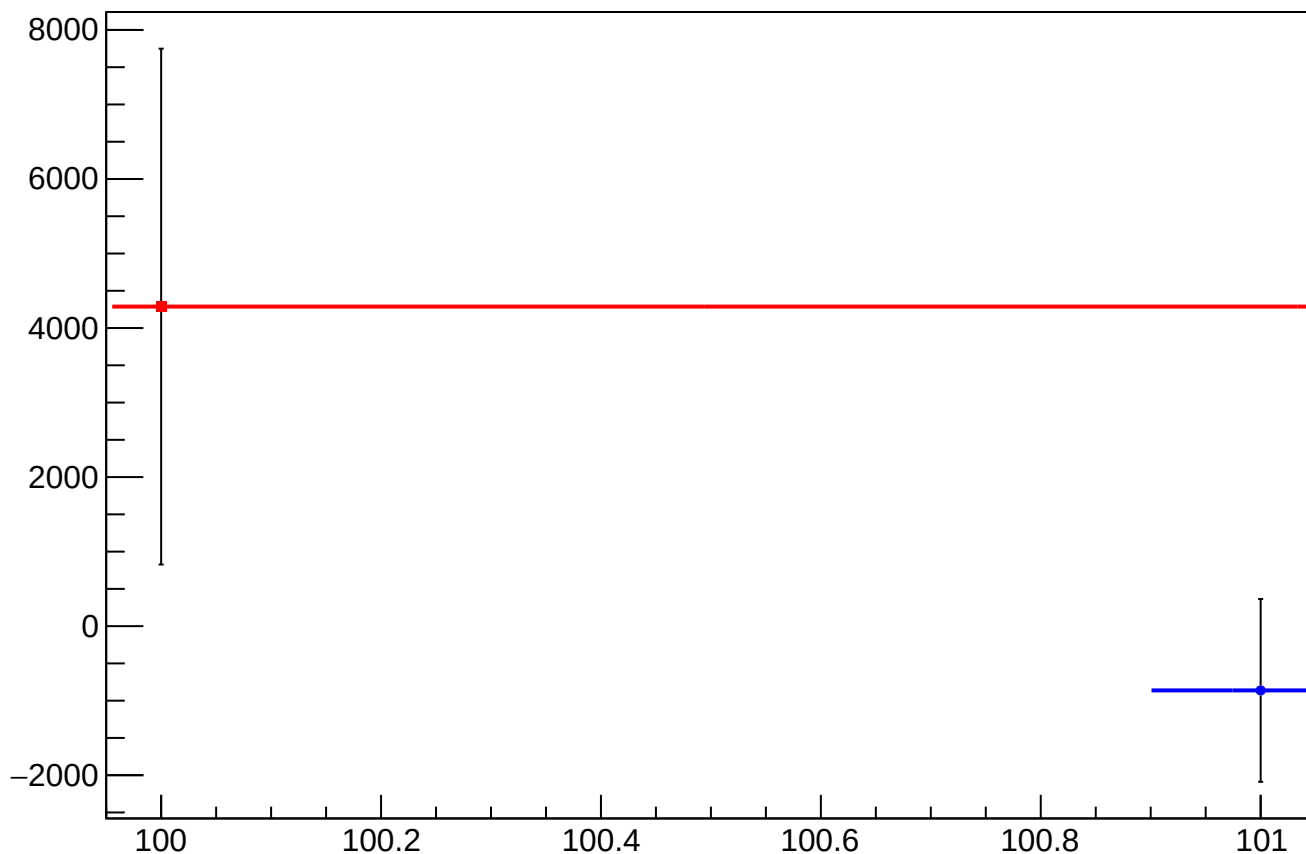
Right: 1476.333 $\pm$ 1.227  $\chi^2$ /NDF: 3525.9/1

In: 1456.008 $\pm$ 1.274  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1476.333 $\pm$ 1.227  $\chi^2$ /NDF: 3525.9/1

asym\_usl\_atl1\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -862.331+/-1226.315  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4287.721+/-3460.970  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

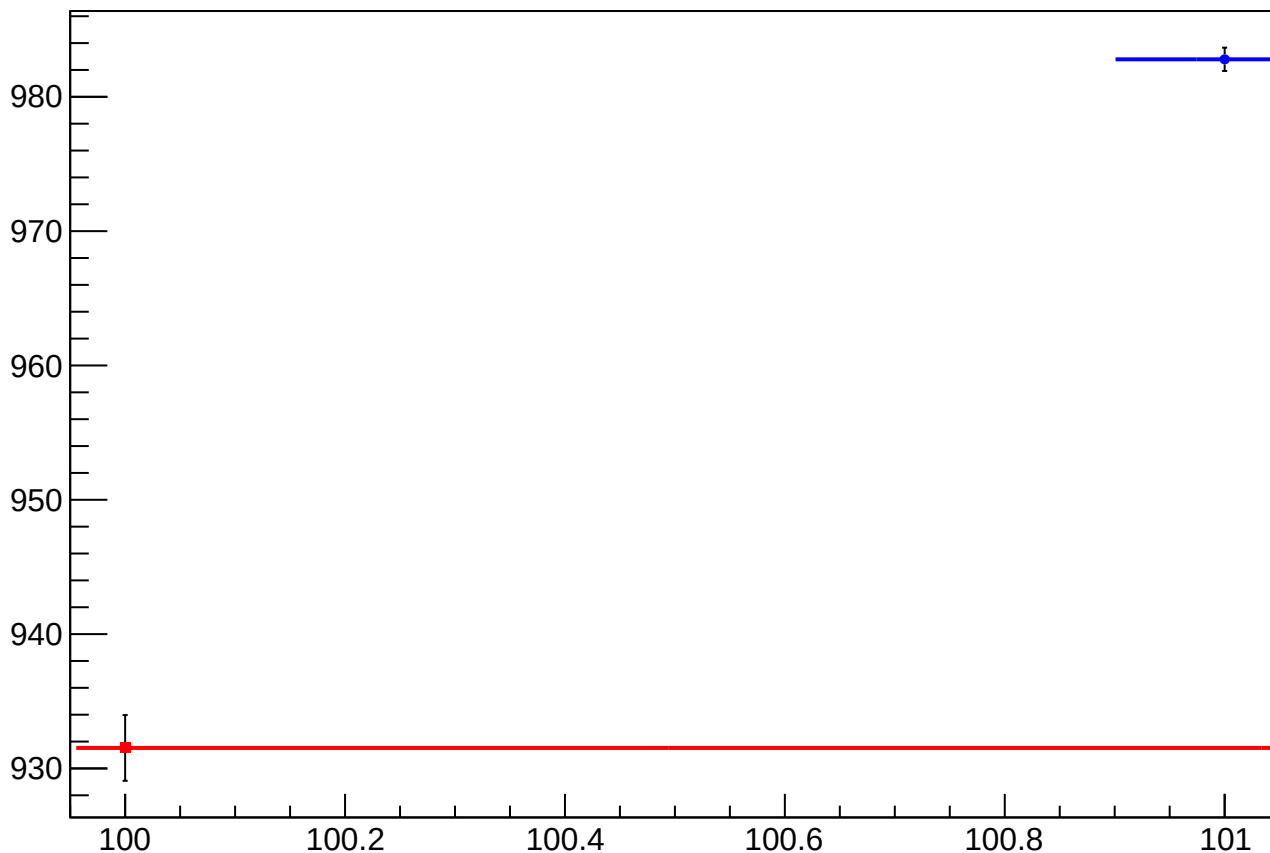
Right: -287.876+/-1155.900  $\chi^2/\text{NDF}$ : 2.0/1

In: -862.331+/-1226.315  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -287.876+/-1155.900  $\chi^2/\text{NDF}$ : 2.0/1

asym\_usl\_atl1\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 982.792 $\pm$ 0.867  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 931.527 $\pm$ 2.447  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

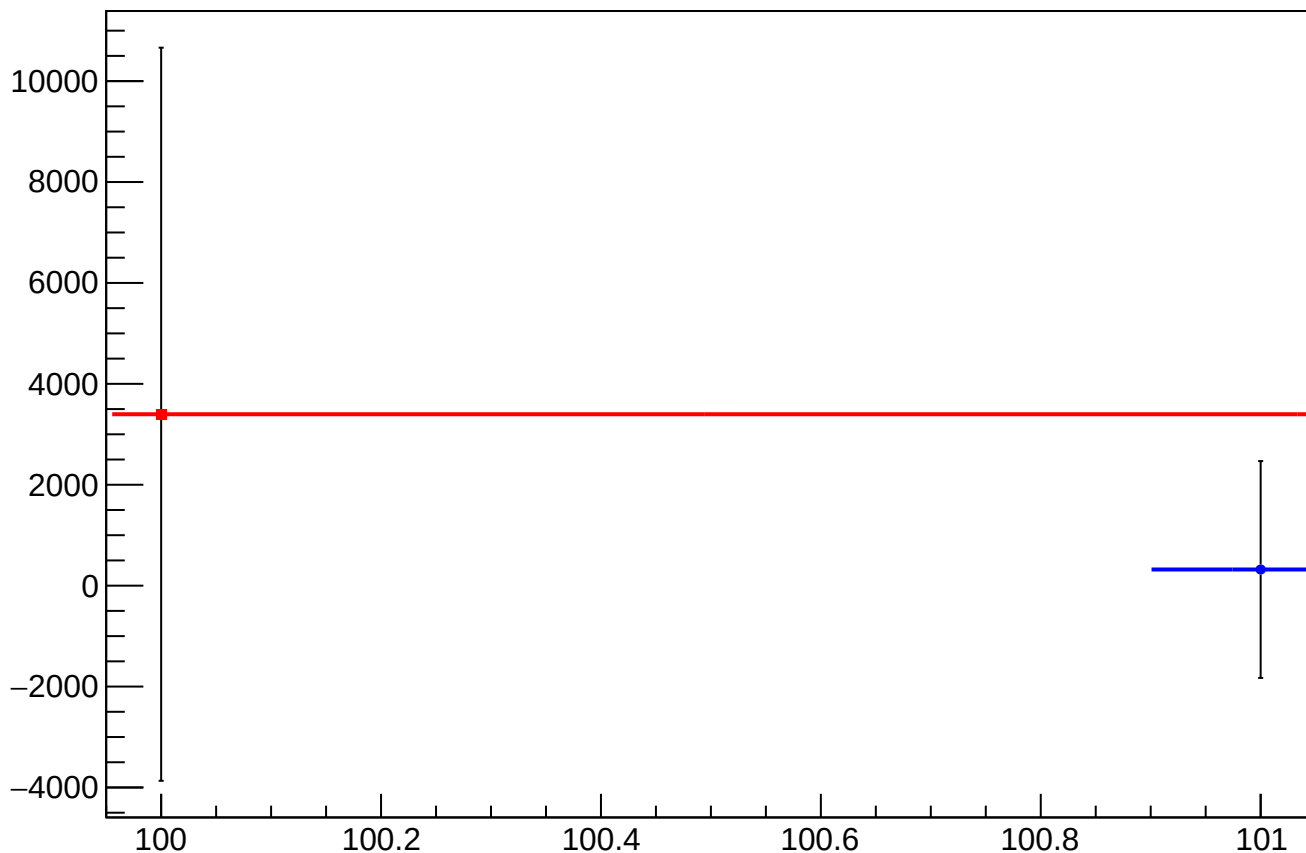
Right: 977.074 $\pm$ 0.817  $\chi^2$ /NDF: 389.9/1

In: 982.792 $\pm$ 0.867  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 977.074 $\pm$ 0.817  $\chi^2$ /NDF: 389.9/1

# asym\_usl\_atl1\_dd\_mean vs Slug, Sign Corrected



Right In: 320.356+/-2148.855  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3397.663+/-7265.311  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

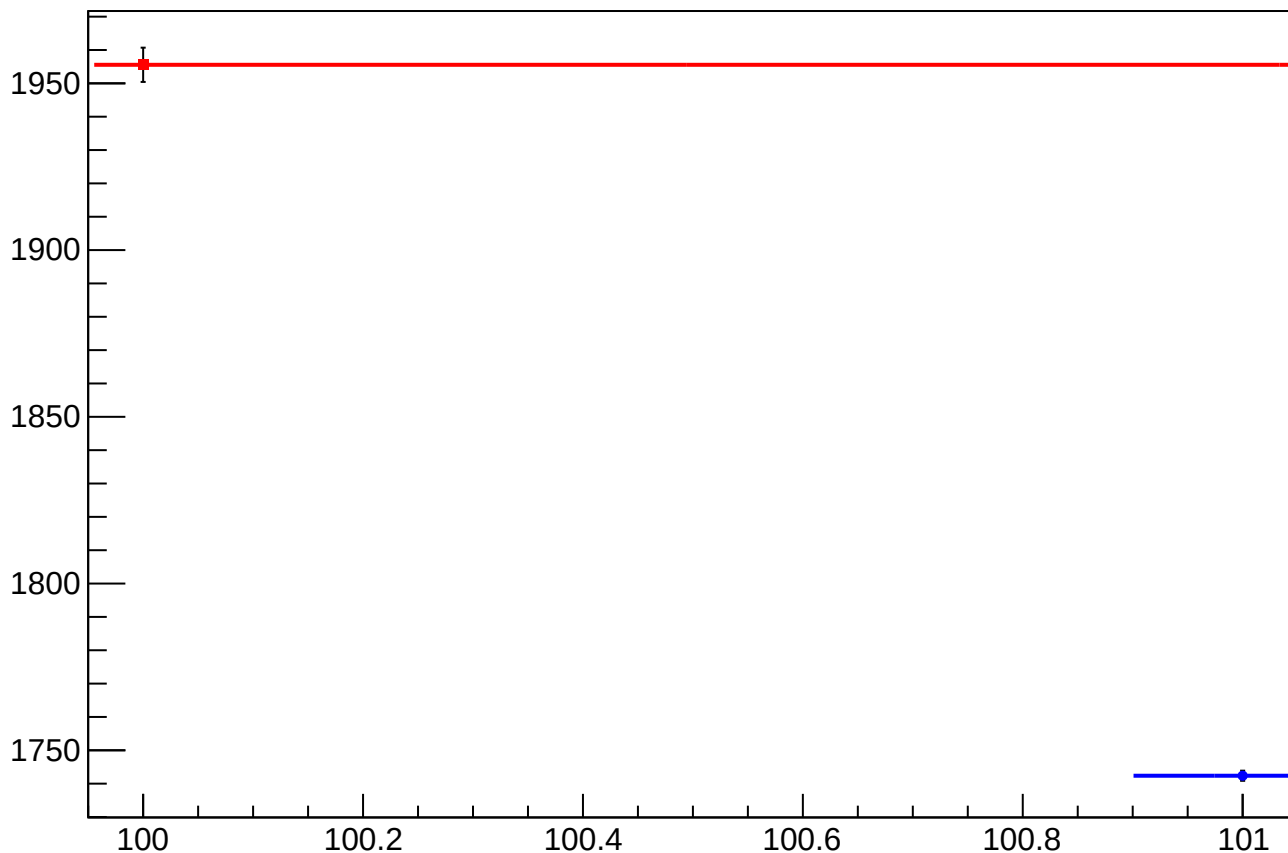
Right: 567.902+/-2060.613  $\chi^2/\text{NDF}$ : 0.2/1

In: 320.356+/-2148.855  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 567.902+/-2060.613  $\chi^2/\text{NDF}$ : 0.2/1

# asym\_usl\_atl1\_dd\_rms vs Slug, Sign Corrected



Right In: 1742.373+/-1.519  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1955.561+/-5.137  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

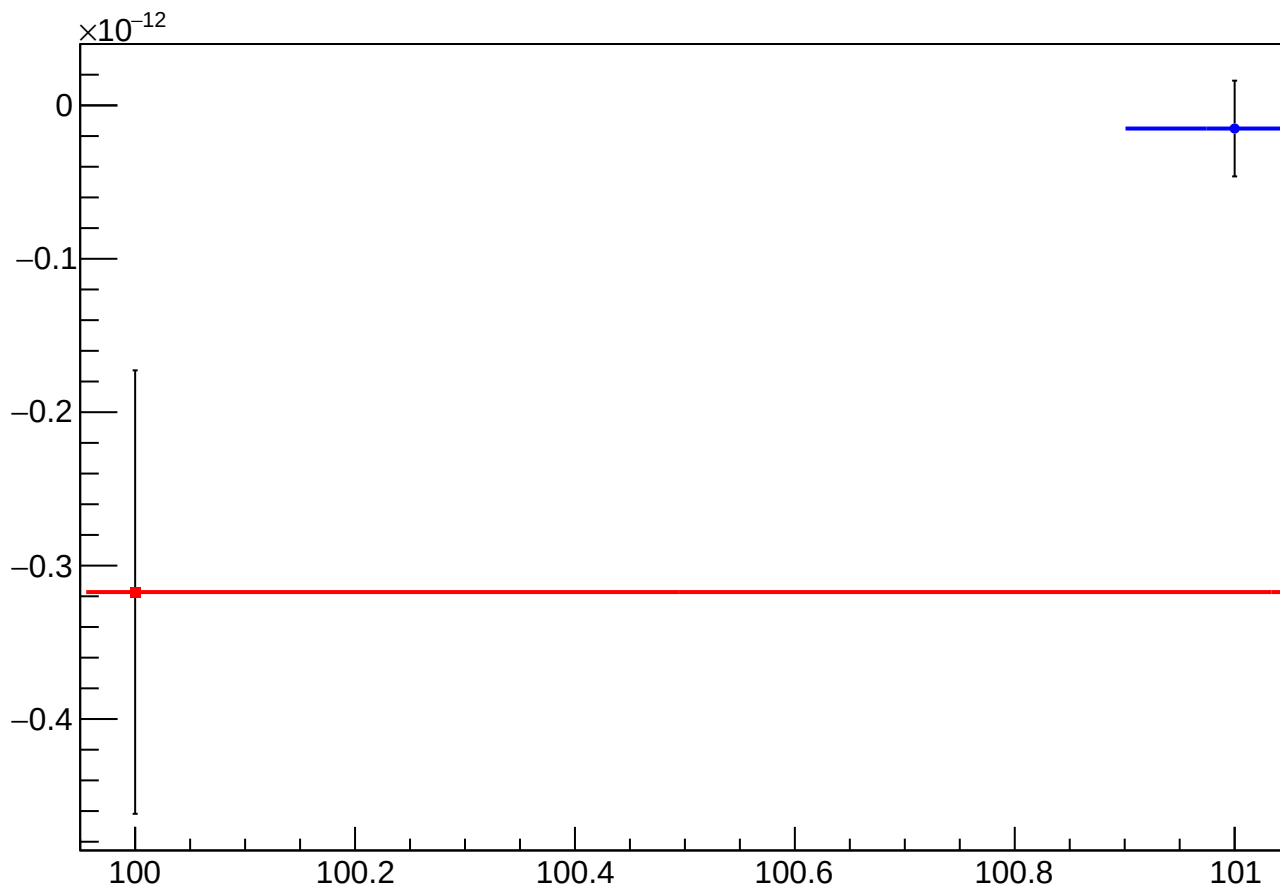
Right: 1759.522+/-1.457  $\chi^2$ /NDF: 1583.5/1

In: 1742.373+/-1.519  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 1759.522+/-1.457  $\chi^2$ /NDF: 1583.5/1

asym\_usl\_atl1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

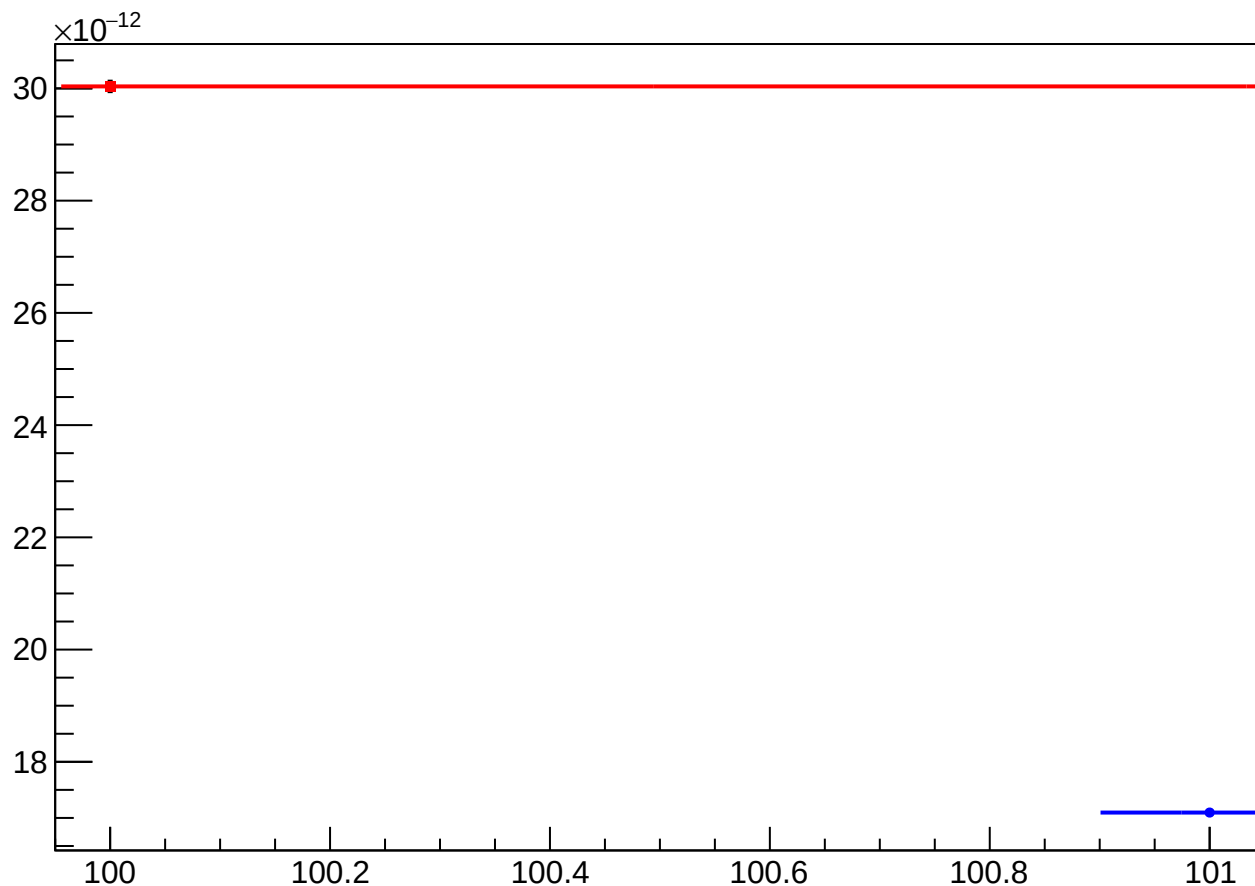
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.2/1

asym\_usl\_atl1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15318.2/1

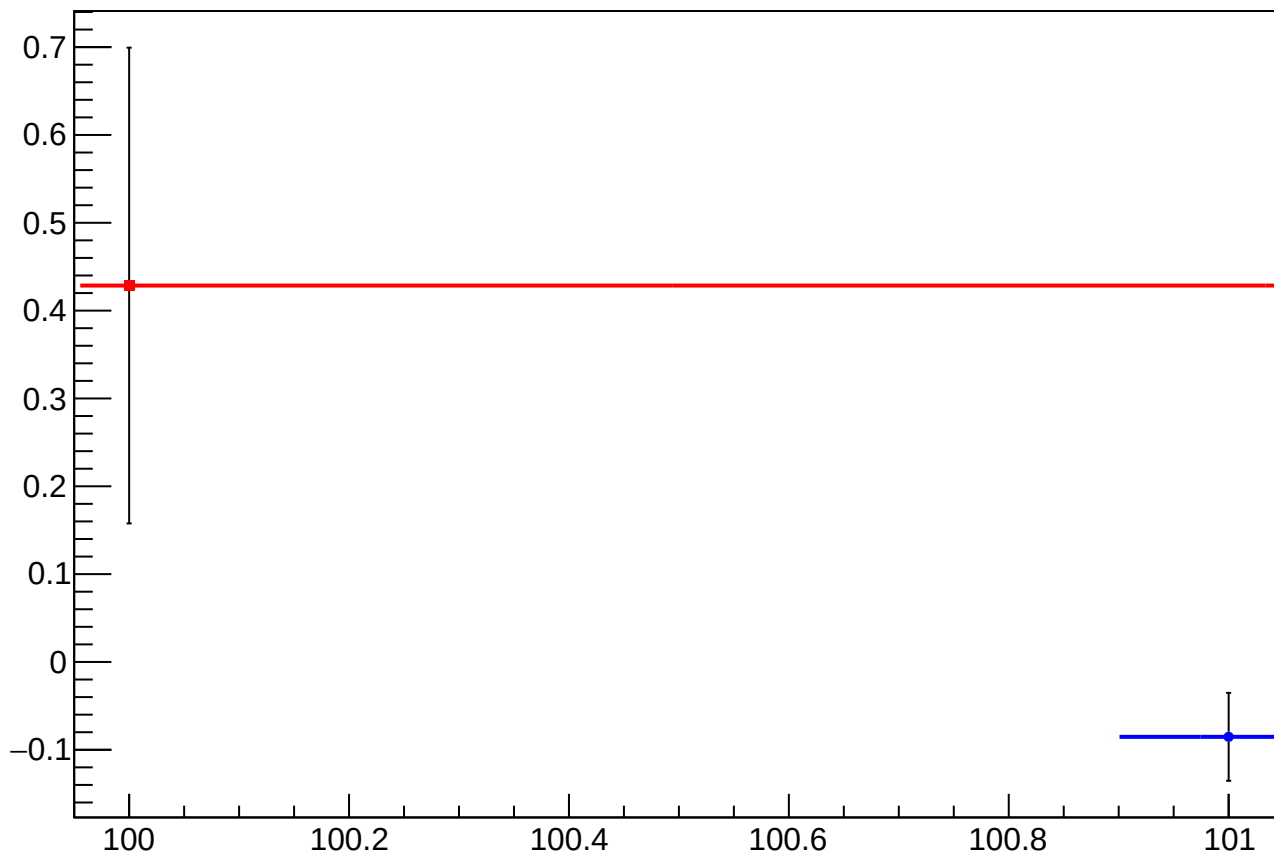
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15318.2/1



asym\_usl\_atl1\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.085 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.429 $\pm$ 0.271  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

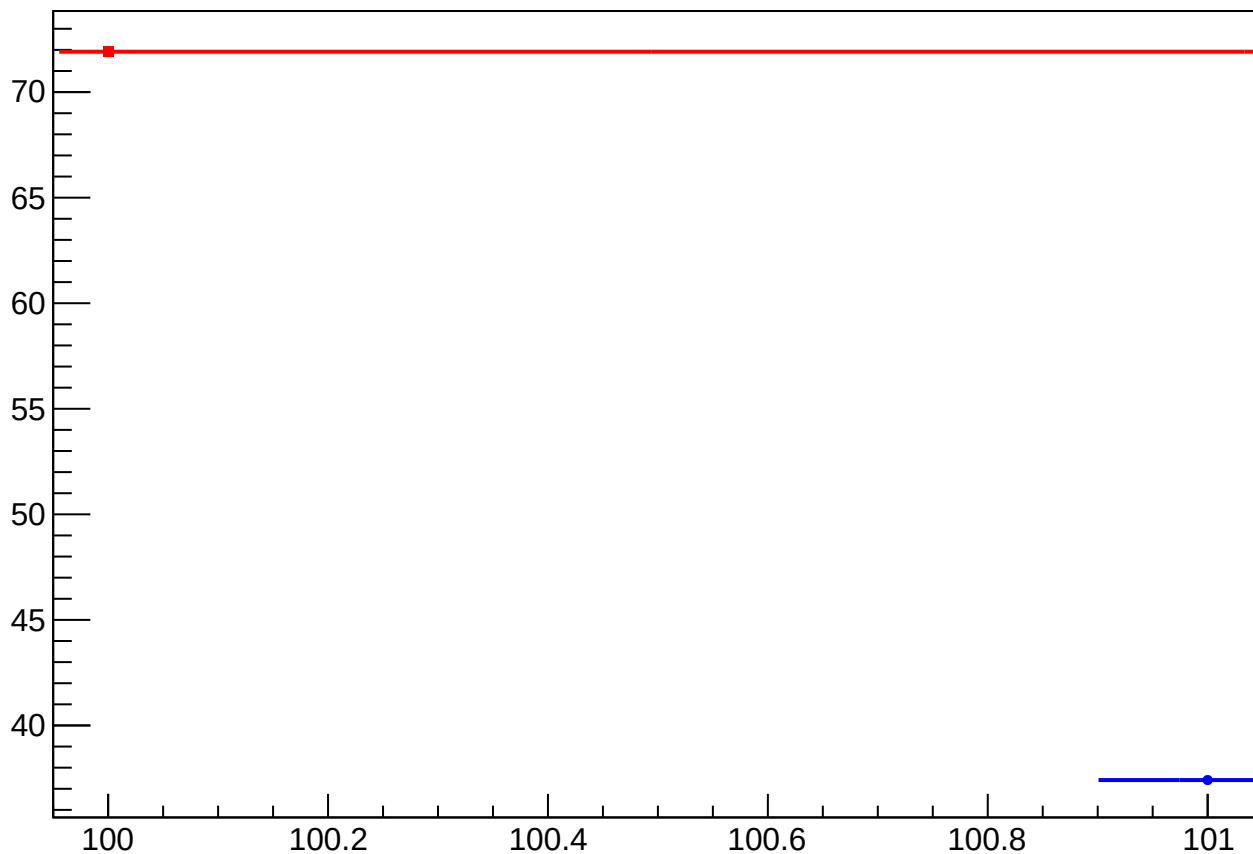
Right: -0.068 $\pm$ 0.049  $\chi^2$ /NDF: 3.5/1

In: -0.085 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.068 $\pm$ 0.049  $\chi^2$ /NDF: 3.5/1

asym\_usl\_atl1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 37.414+/-0.035  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 71.913+/-0.192  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

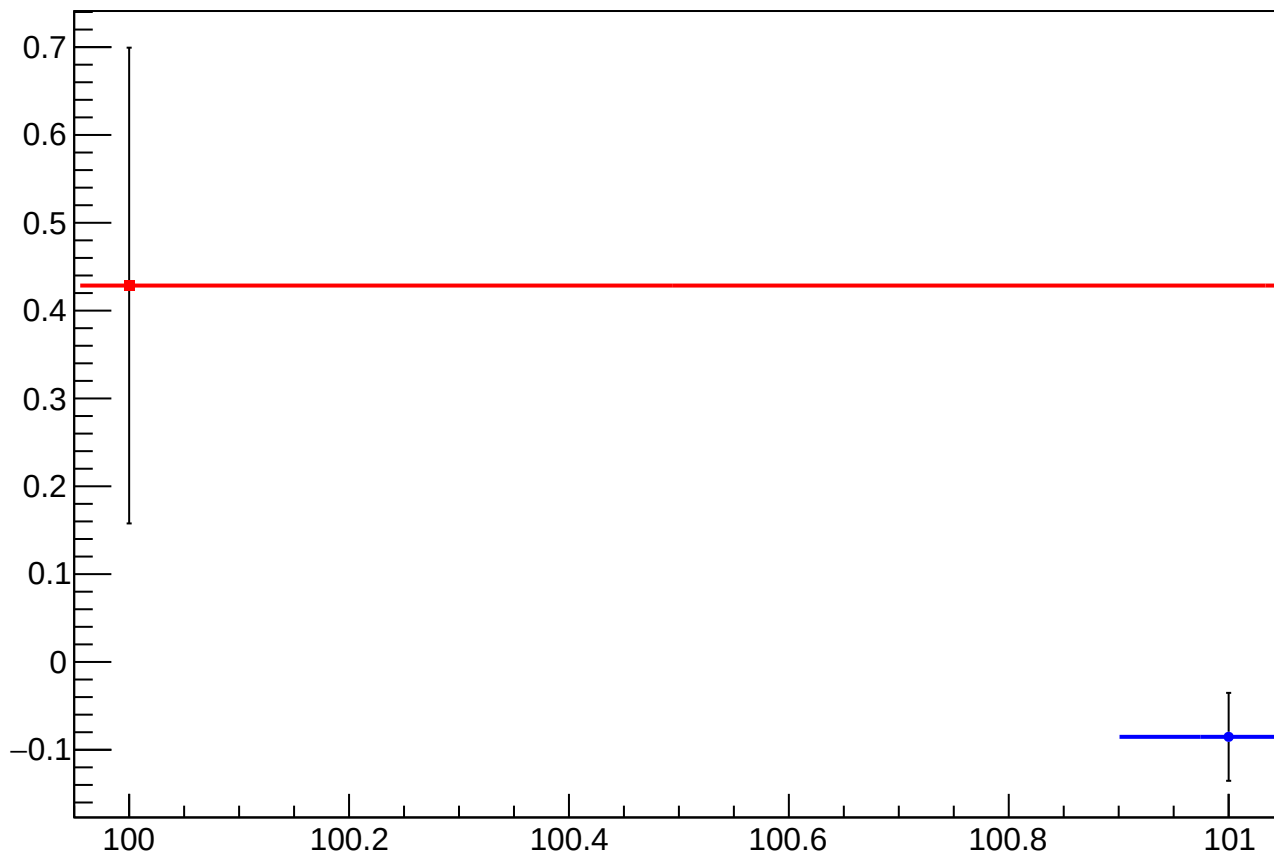
Right: 38.553+/-0.035  $\chi^2/\text{NDF}$ : 31382.1/1

In: 37.414+/-0.035  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.553+/-0.035  $\chi^2/\text{NDF}$ : 31382.1/1

asym\_usl\_atl1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.085+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.429+/-0.271  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

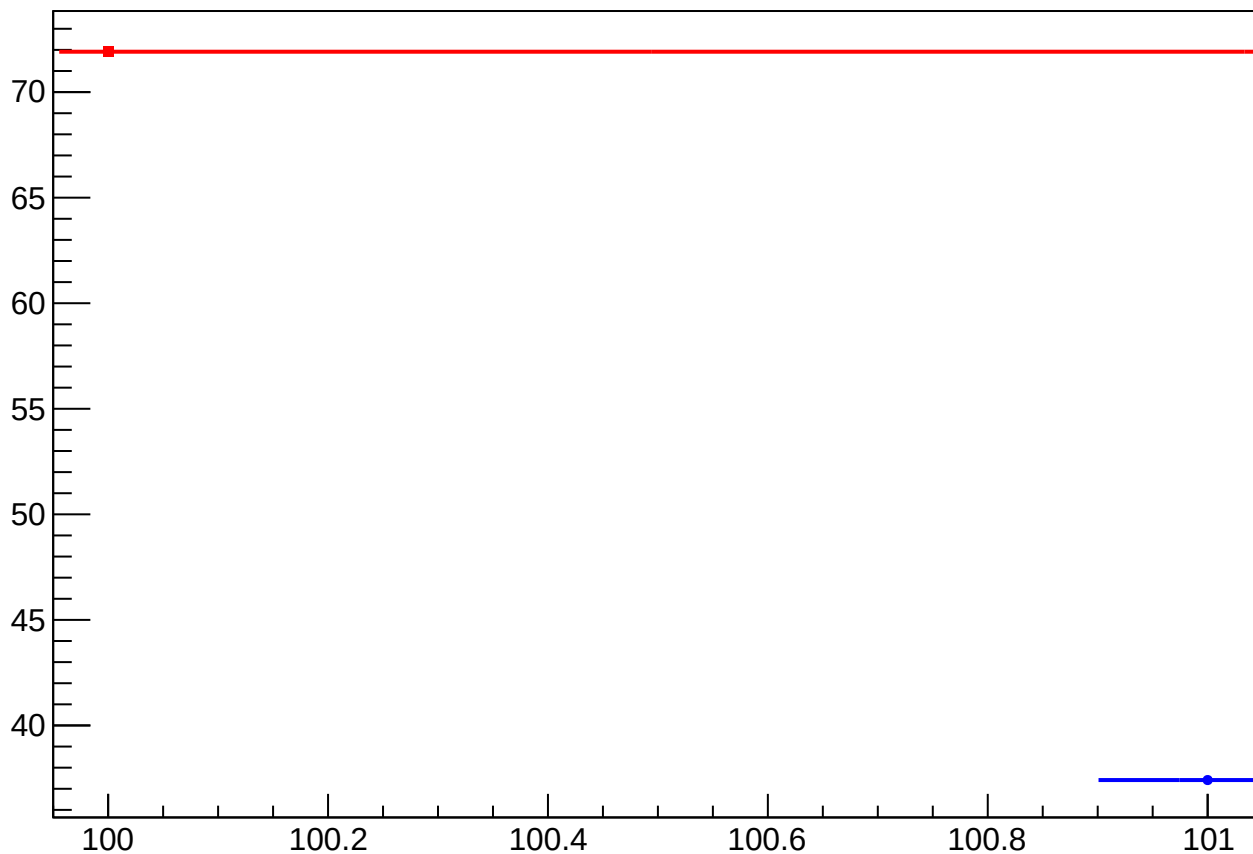
Right: -0.068+/-0.049  $\chi^2/\text{NDF}$ : 3.5/1

In: -0.085+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.068+/-0.049  $\chi^2/\text{NDF}$ : 3.5/1

asym\_usl\_atl1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 37.414 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.913 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

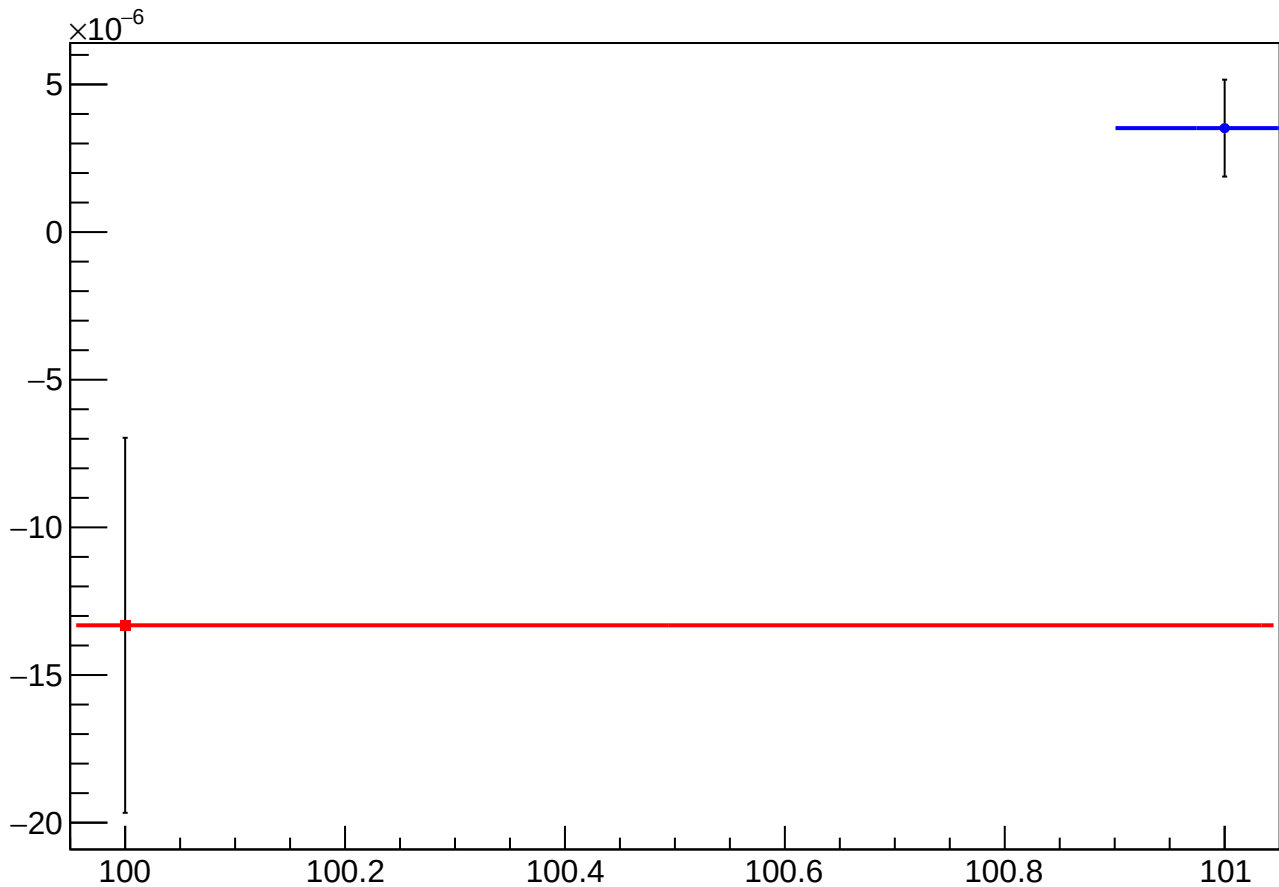
Right: 38.553 $\pm$ 0.035  $\chi^2$ /NDF: 31382.1/1

In: 37.414 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.553 $\pm$ 0.035  $\chi^2$ /NDF: 31382.1/1

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

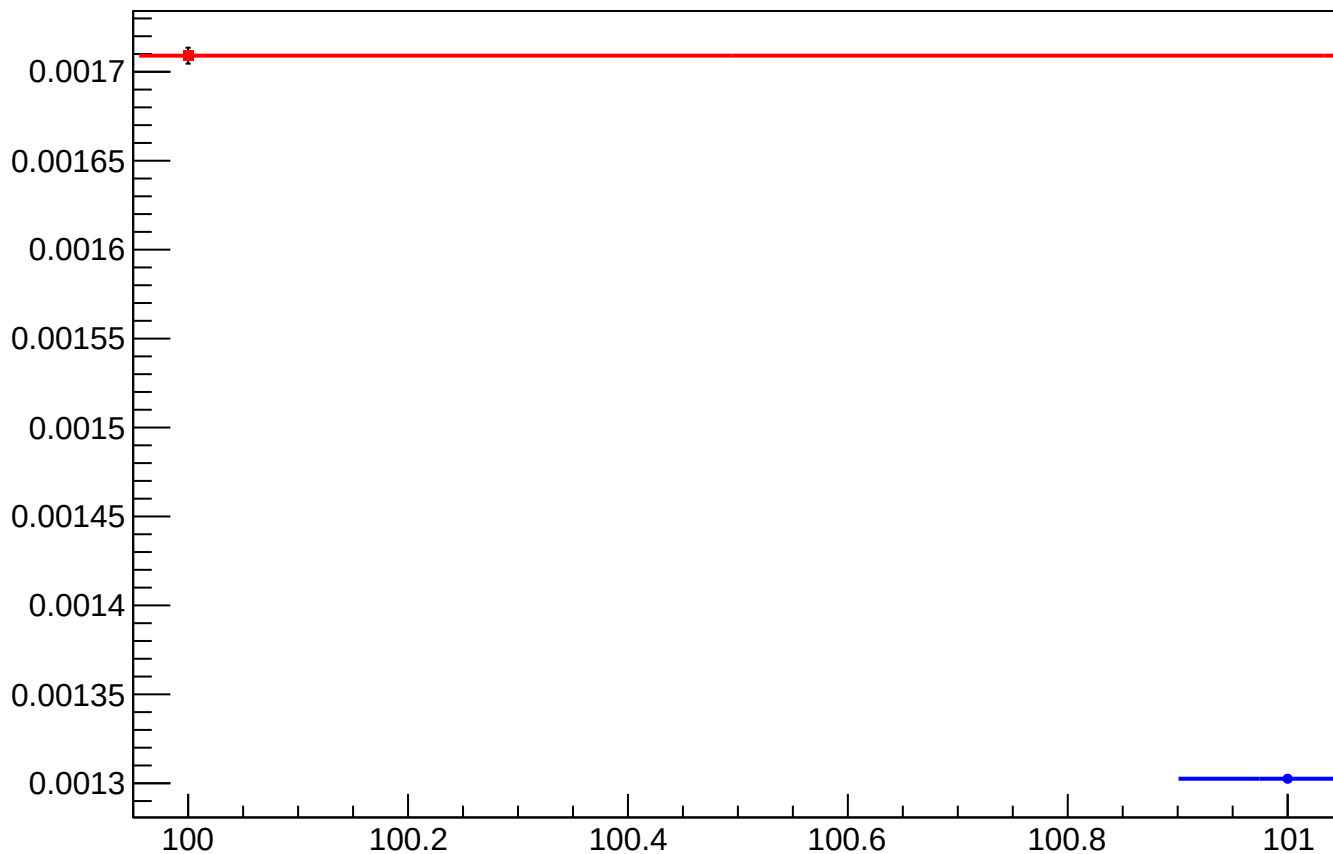
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.6/1

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

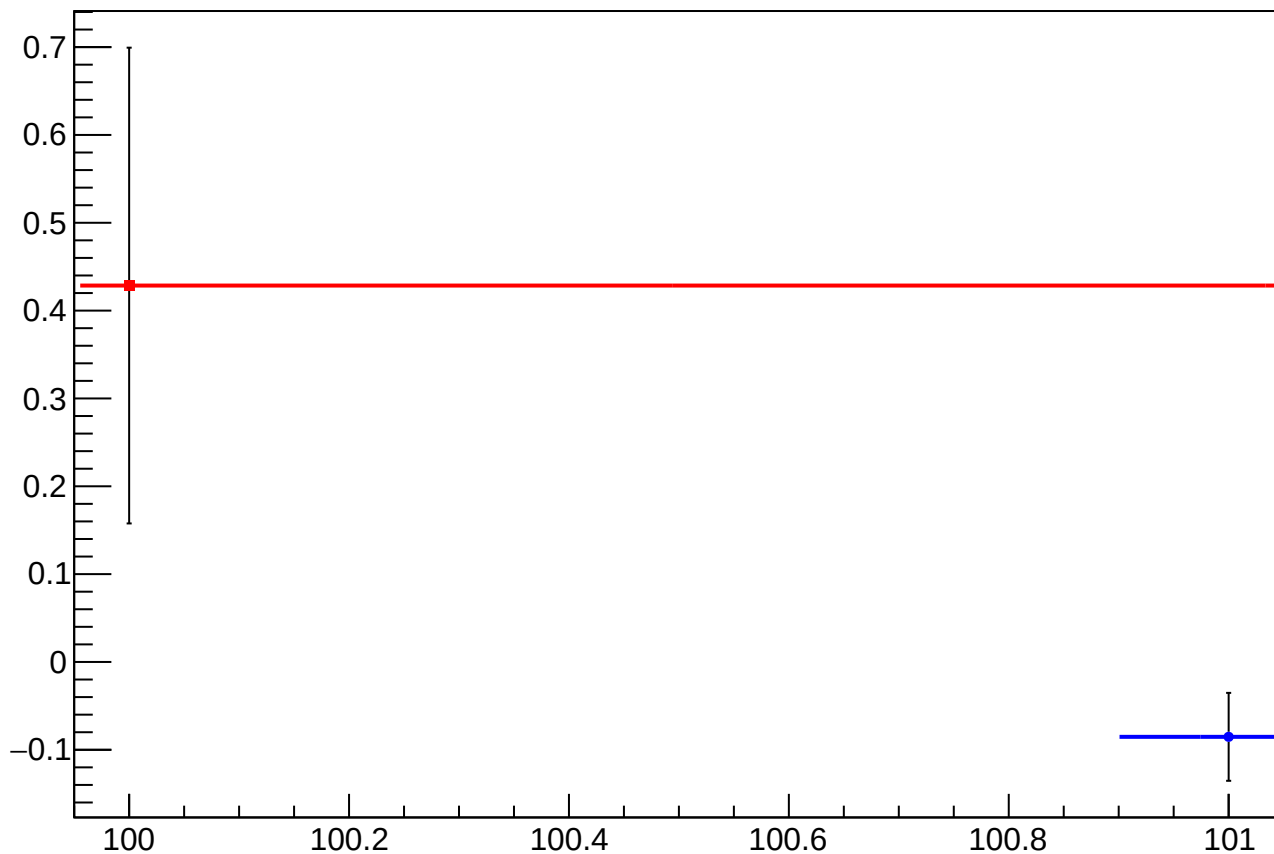
Right: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 7684.7/1

In: 0.001 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 7684.7/1

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.085+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.429+/-0.271  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

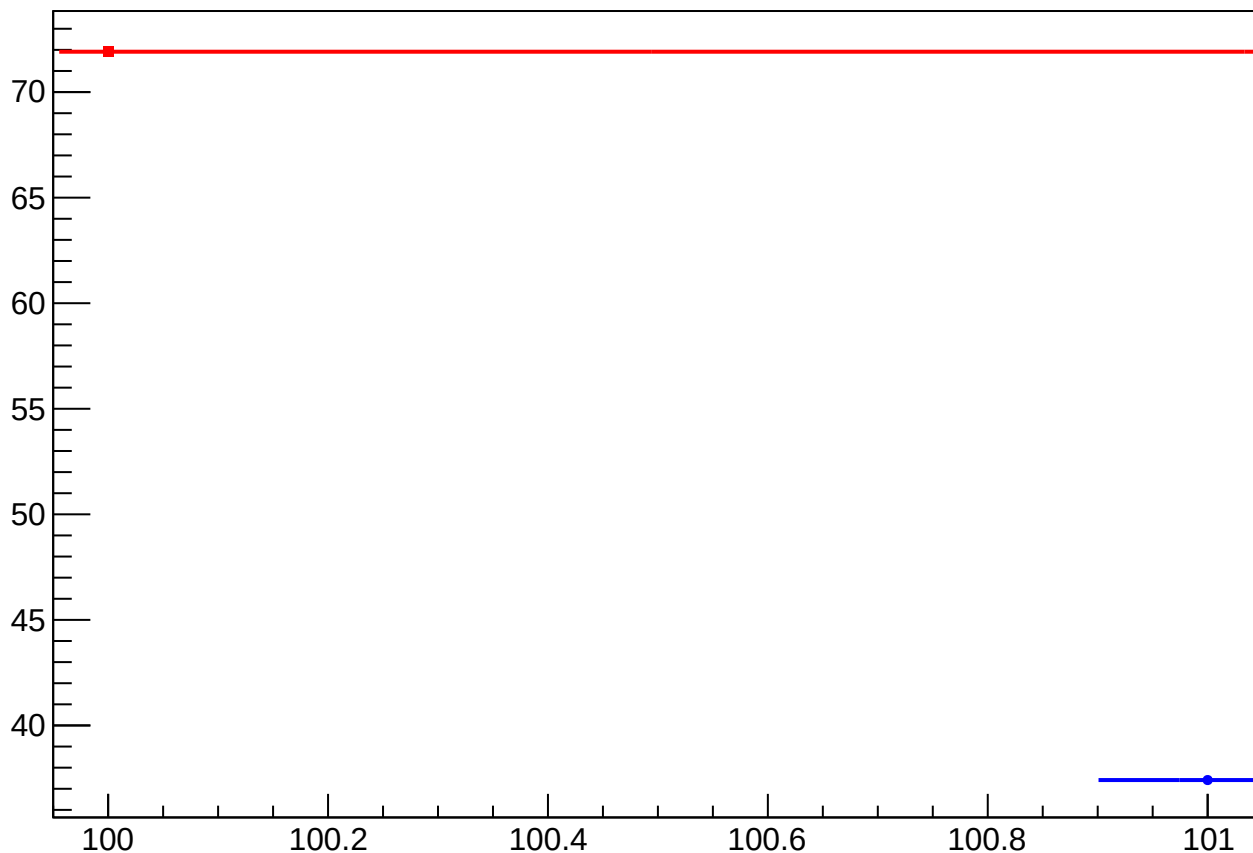
Right: -0.068+/-0.049  $\chi^2/\text{NDF}$ : 3.5/1

In: -0.085+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.068+/-0.049  $\chi^2/\text{NDF}$ : 3.5/1

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 37.414 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.913 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 38.553 $\pm$ 0.035  $\chi^2$ /NDF: 31381.5/1

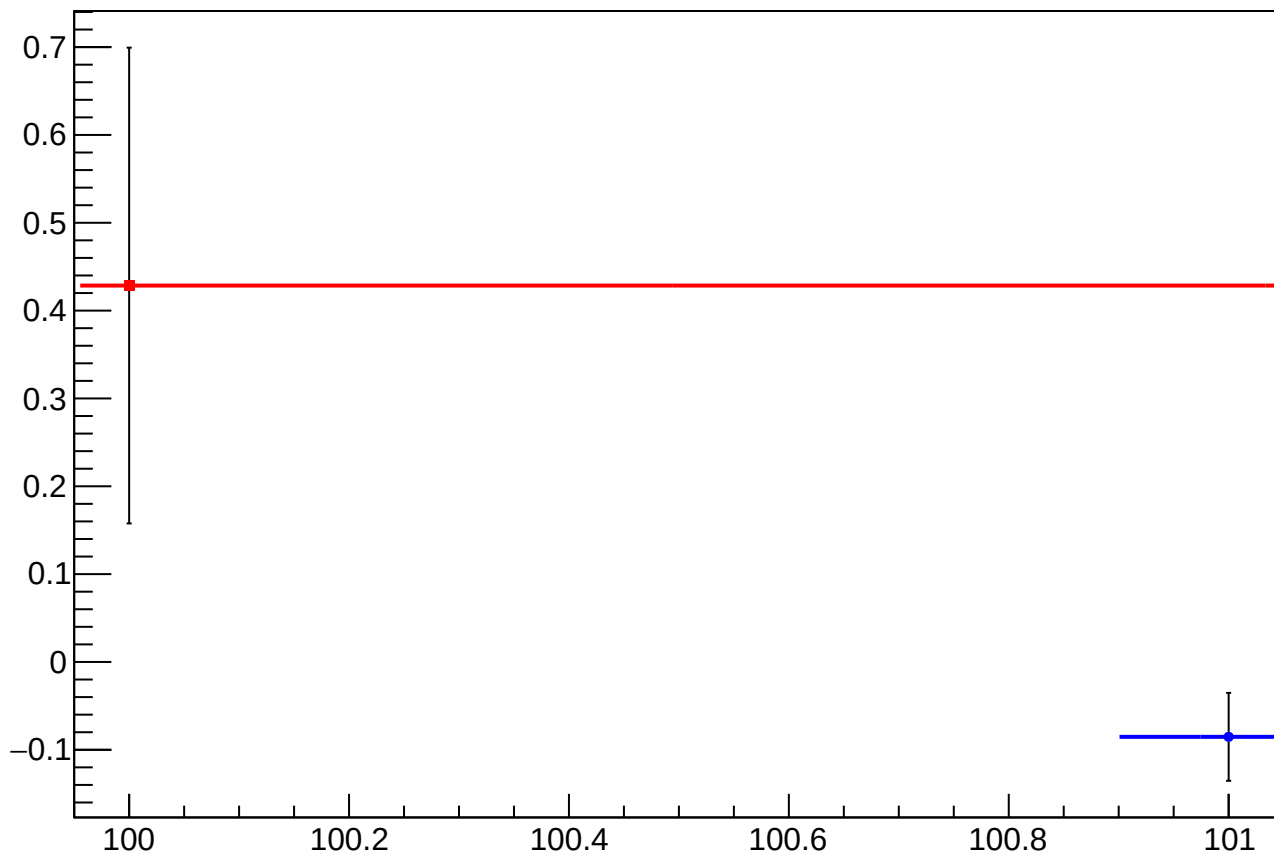
In: 37.414 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.553 $\pm$ 0.035  $\chi^2$ /NDF: 31381.5/1



asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.085+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.429+/-0.271  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

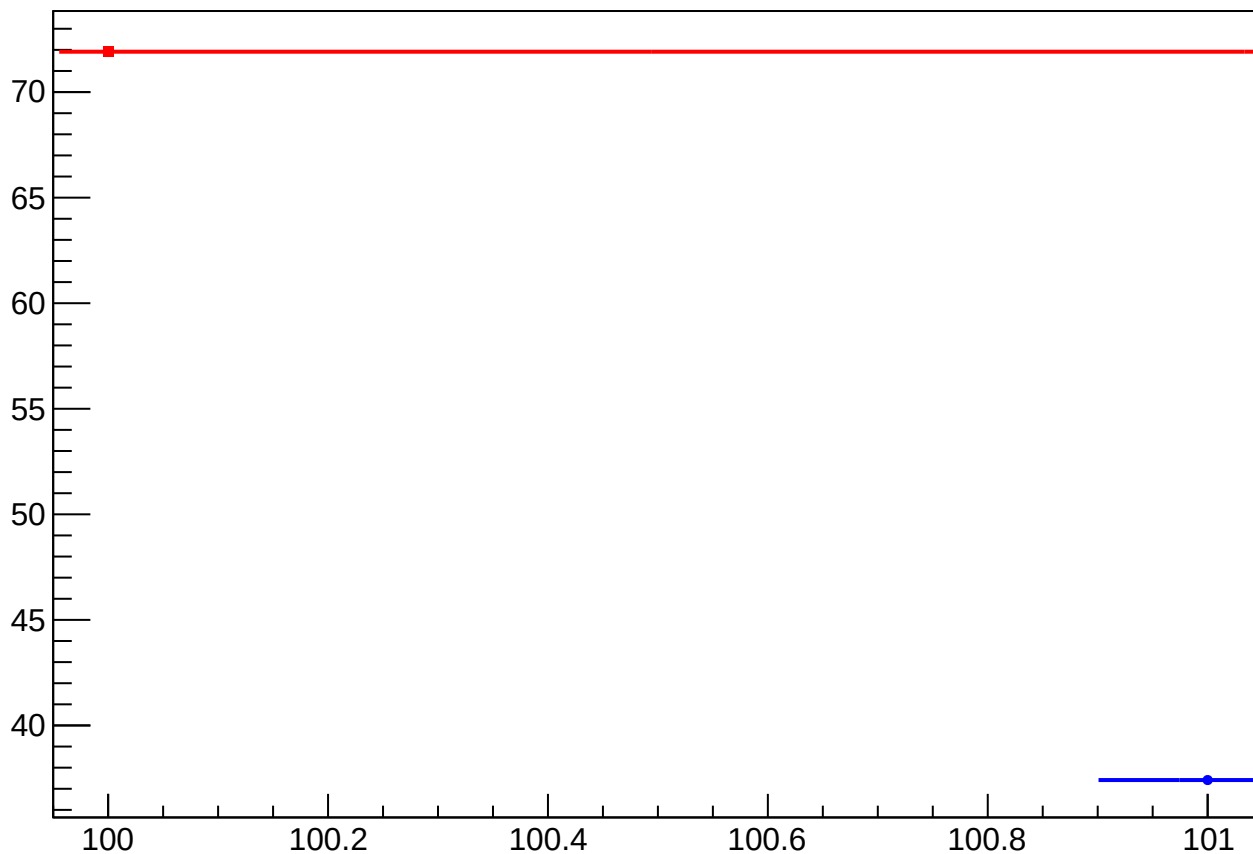
Right: -0.068+/-0.049  $\chi^2/\text{NDF}$ : 3.5/1

In: -0.085+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.068+/-0.049  $\chi^2/\text{NDF}$ : 3.5/1

asym\_usl\_atl1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 37.414 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 71.913 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

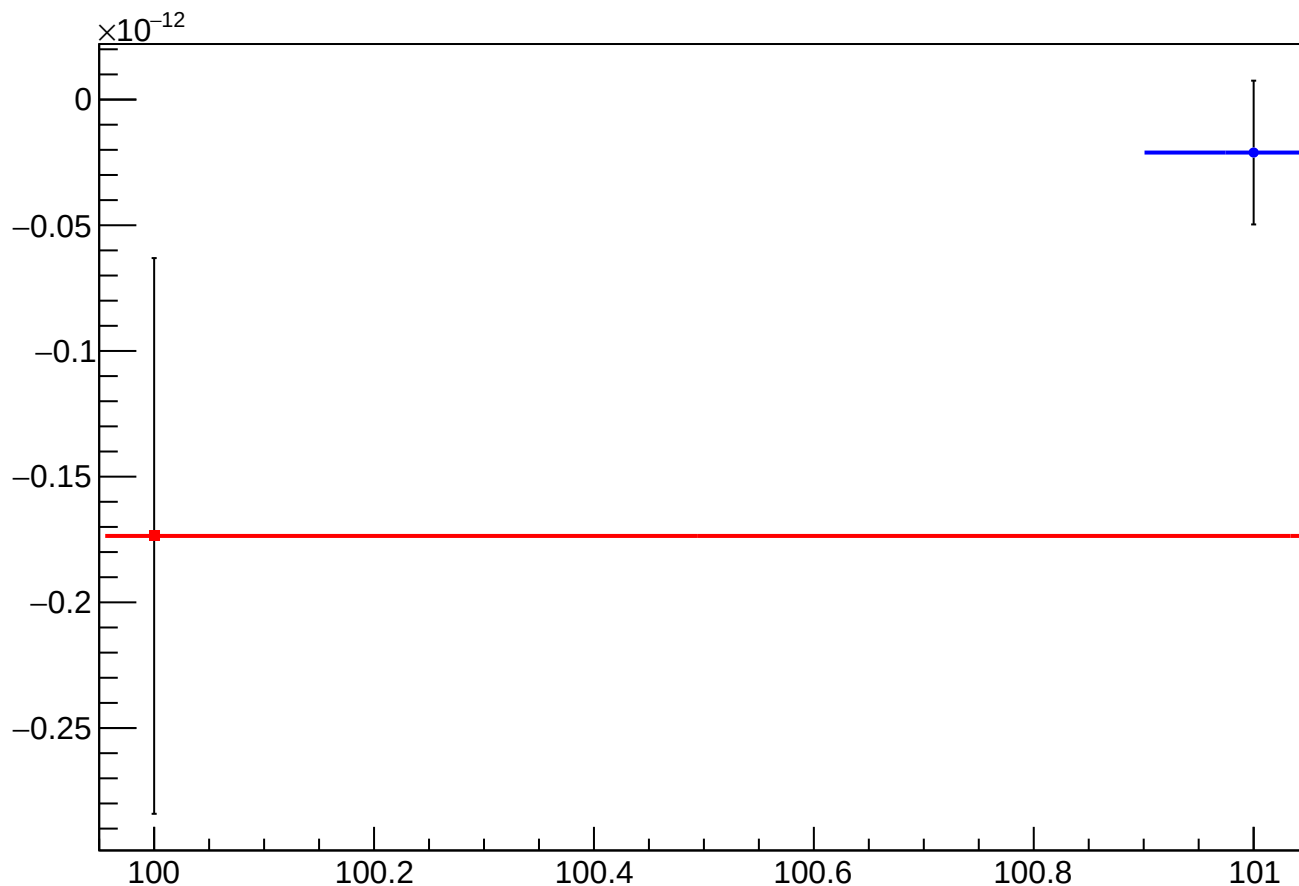
Right: 38.553 $\pm$ 0.035  $\chi^2$ /NDF: 31381.5/1

In: 37.414 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.553 $\pm$ 0.035  $\chi^2$ /NDF: 31381.5/1

asym\_usl\_atl1\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

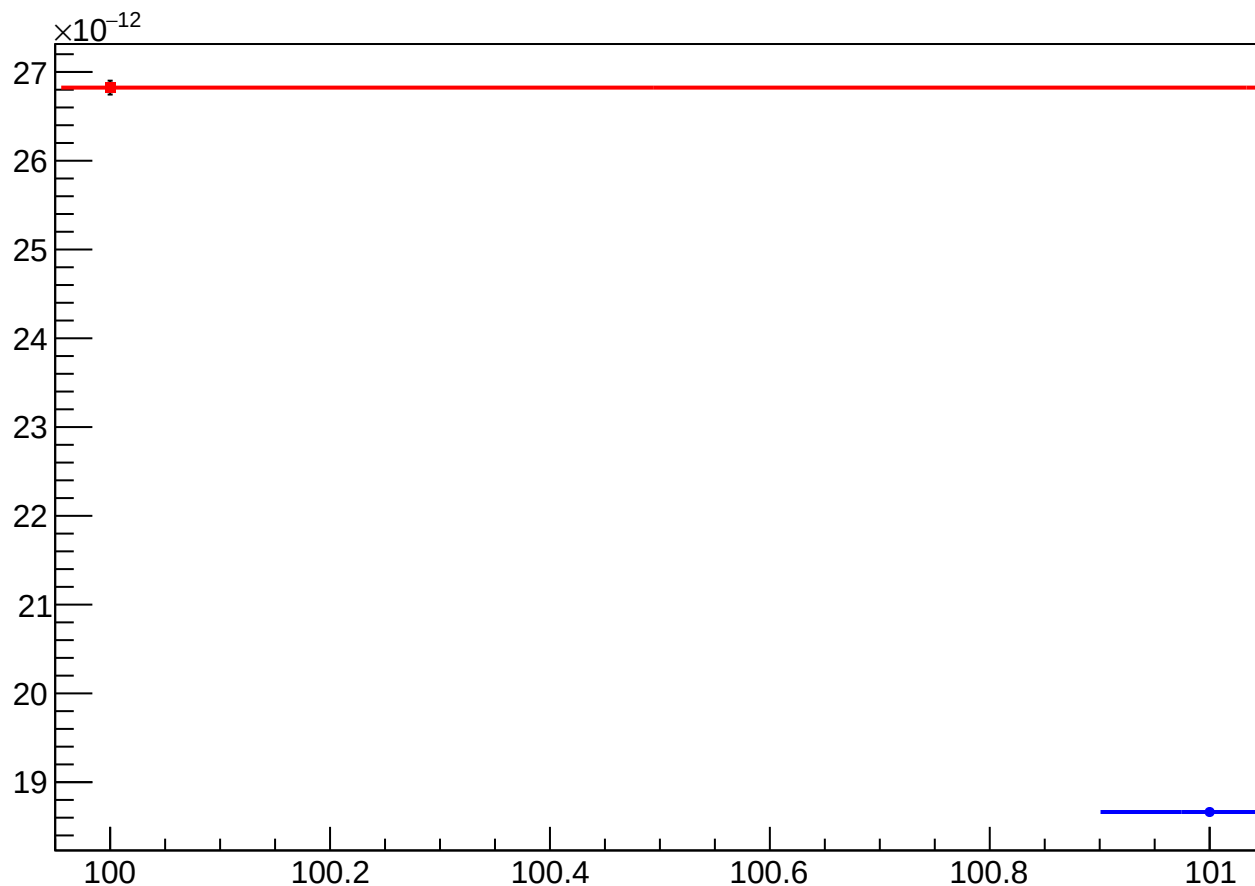
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.8/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.8/1

asym\_usl\_atl1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

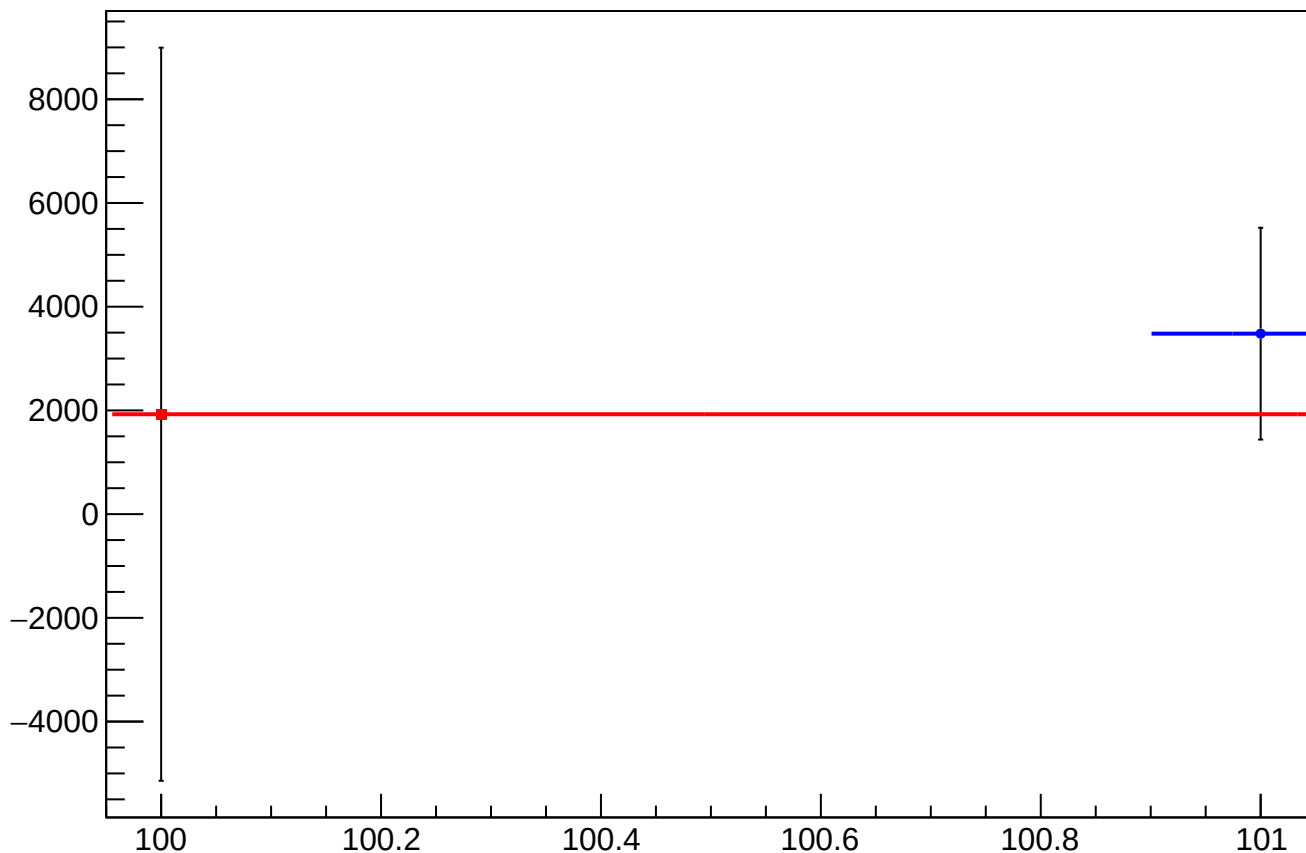
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10216.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10216.7/1

reg\_asym\_usl\_atl2\_avg\_mean vs Slug, Sign Corrected



Right In: 3480.223+/-2042.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1926.321+/-7068.544  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

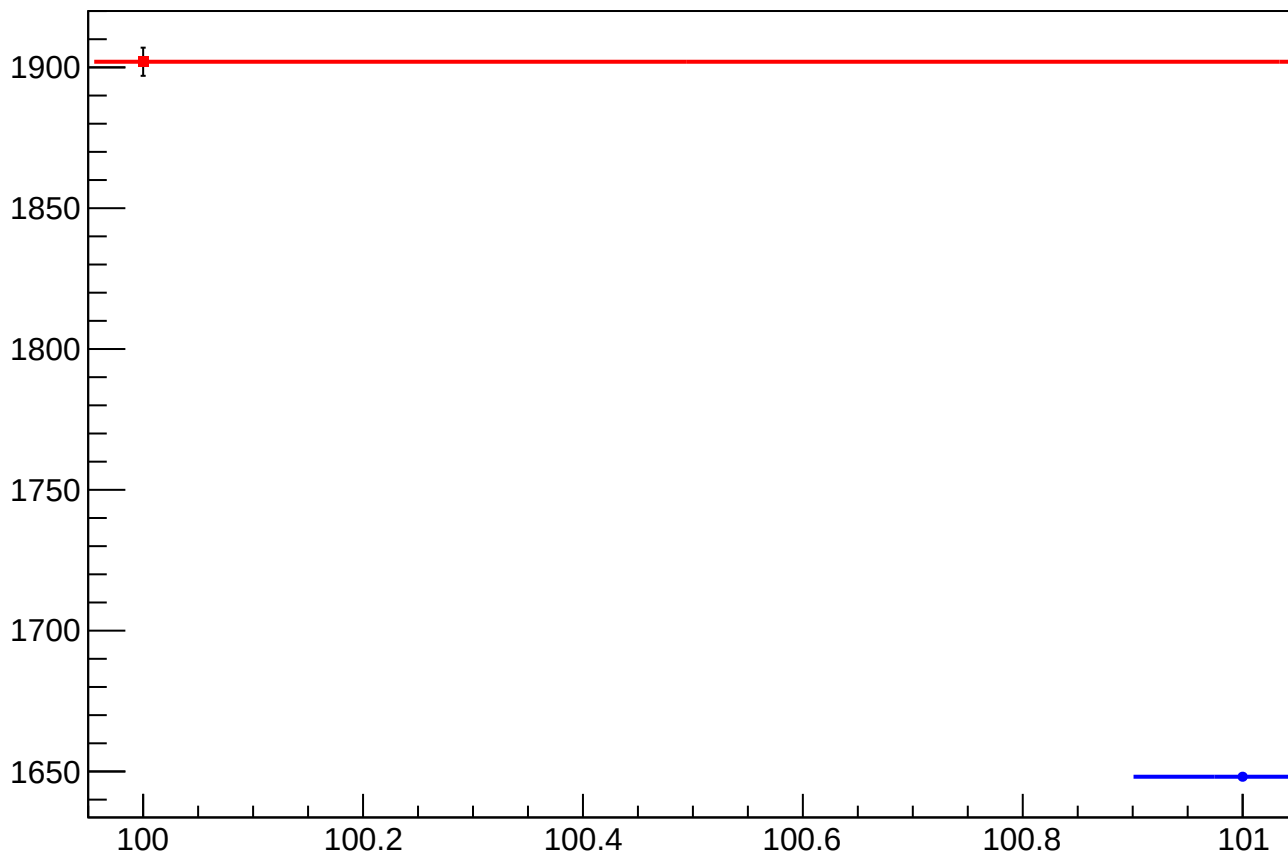
Right: 3360.519+/-1961.878  $\chi^2$ /NDF: 0.0/1

In: 3480.223+/-2042.110  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 3360.519+/-1961.878  $\chi^2$ /NDF: 0.0/1

reg\_asym\_usl\_atl2\_avg\_rms vs Slug, Sign Corrected



Right In: 1648.131+/-1.444  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1902.000+/-4.998  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

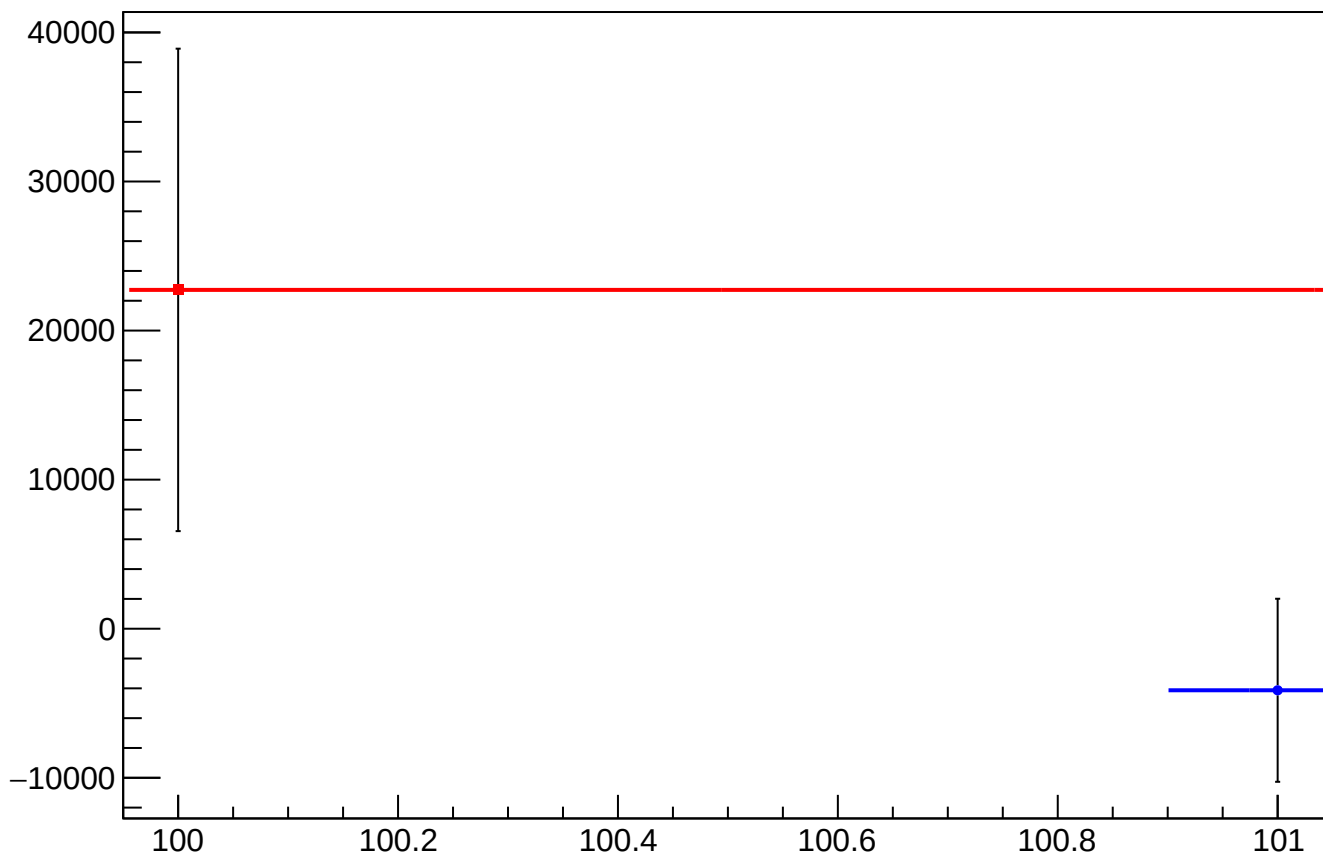
Right: 1667.687+/-1.387  $\chi^2/\text{NDF}$ : 2381.1/1

In: 1648.131+/-1.444  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1667.687+/-1.387  $\chi^2/\text{NDF}$ : 2381.1/1

asym\_usl\_atl2\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -4129.341+/-6139.524  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22728.963+/-16181.655  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

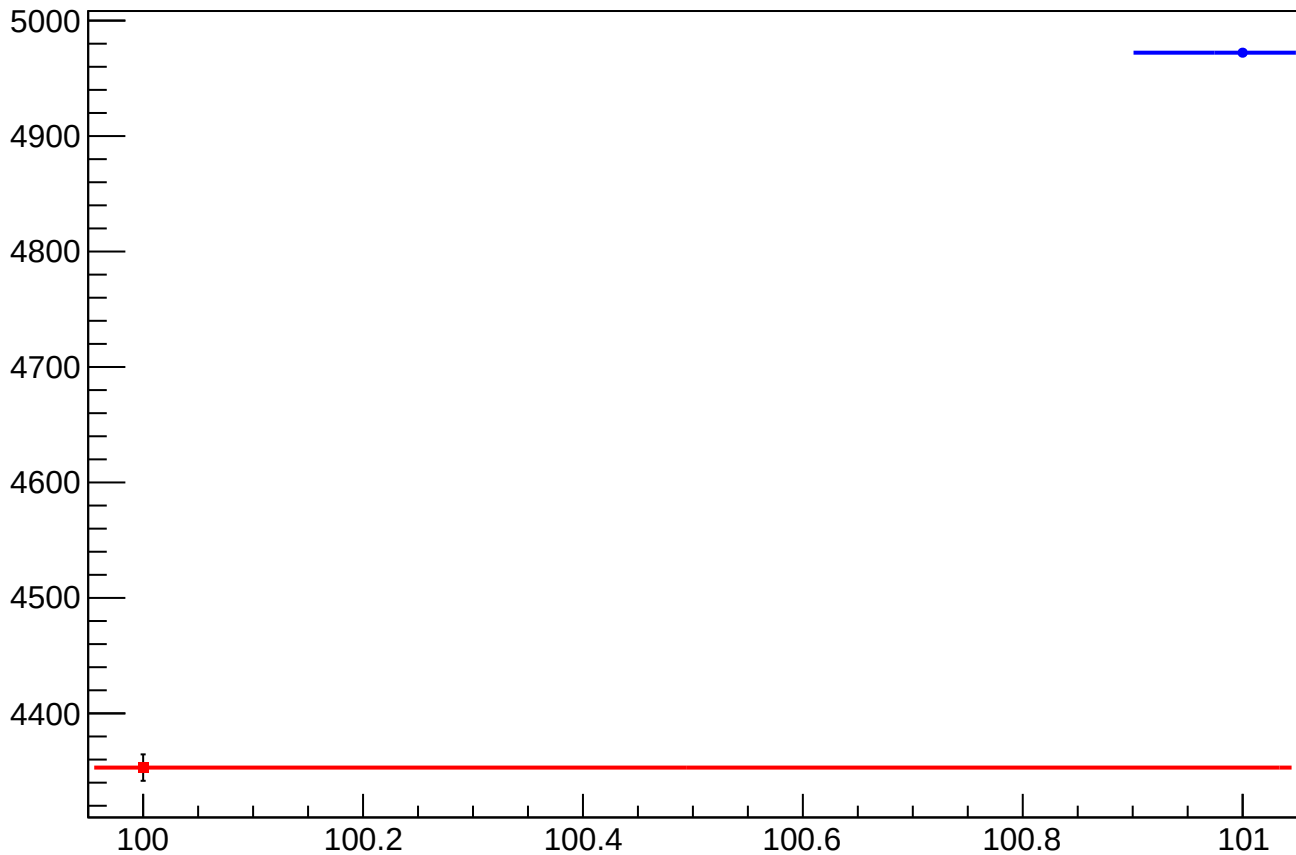
Right: -749.521+/-5740.245  $\chi^2/\text{NDF}$ : 2.4/1

In: -4129.341+/-6139.524  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -749.521+/-5740.245  $\chi^2/\text{NDF}$ : 2.4/1

asym\_usl\_atl2\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4972.214+/-4.341  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4353.057+/-11.442  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4894.300+/-4.059  $\chi^2/\text{NDF}$ : 2559.6/1

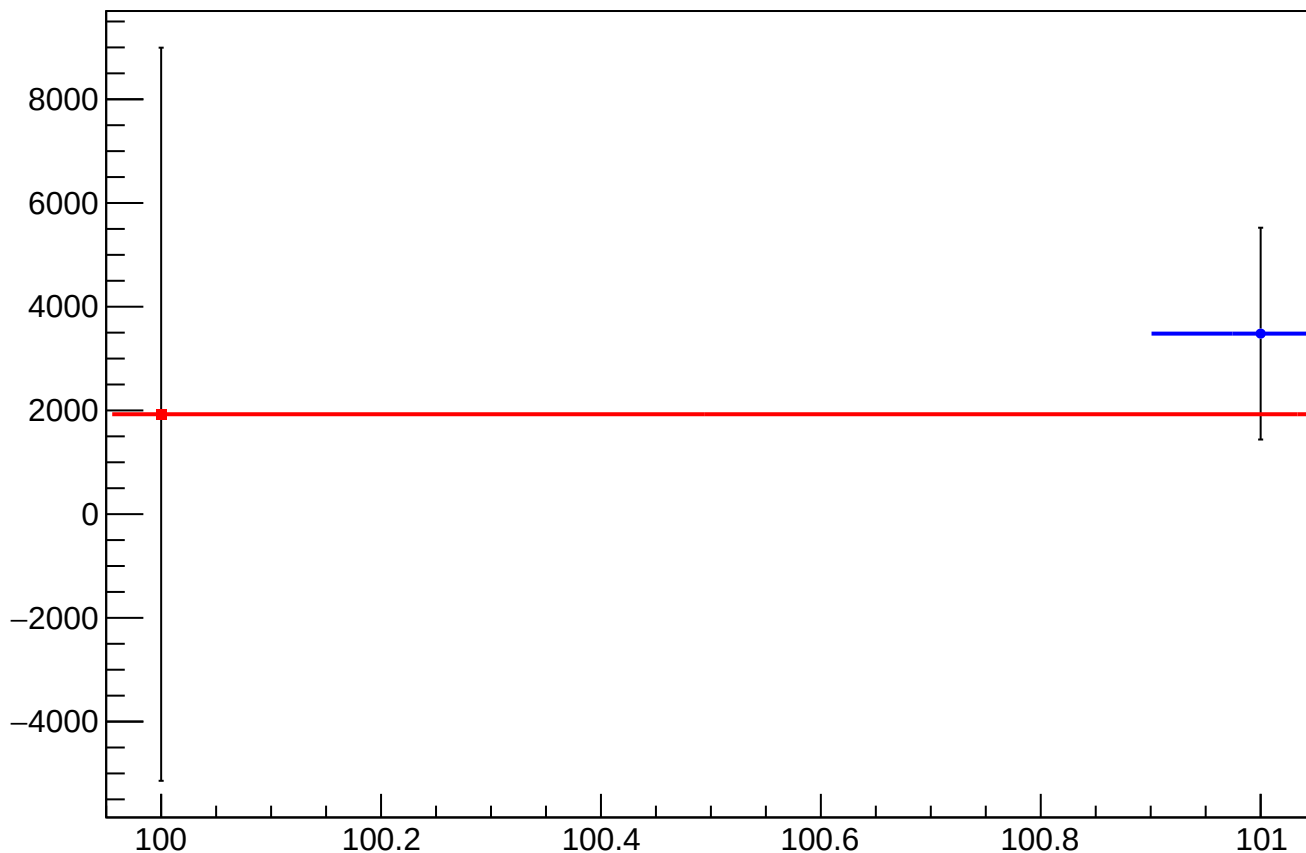
In: 4972.214+/-4.341  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4894.300+/-4.059  $\chi^2/\text{NDF}$ : 2559.6/1



cor\_asym\_usl\_atl2\_avg\_mean vs Slug, Sign Corrected



Right In: 3481.126+/-2042.111  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1926.570+/-7068.544  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

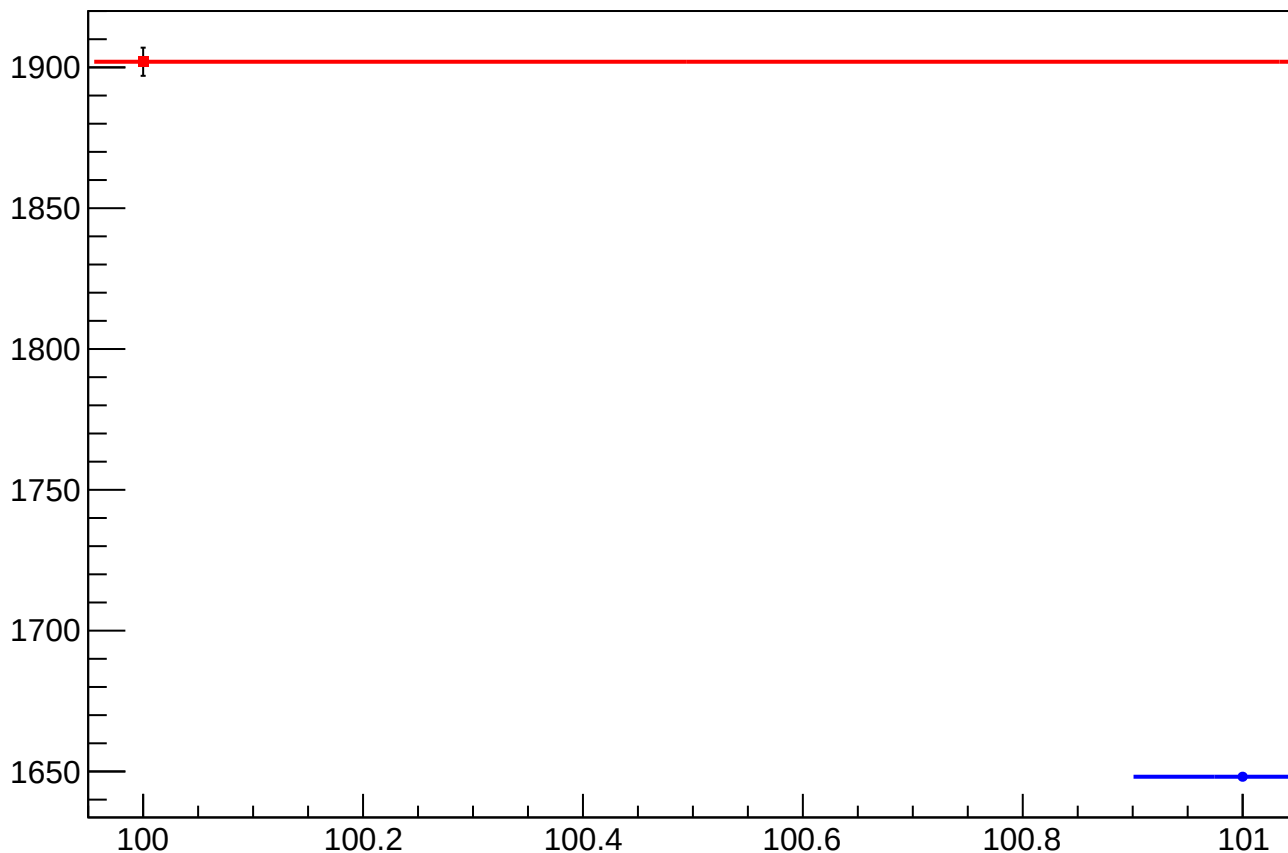
Right: 3361.372+/-1961.879  $\chi^2/\text{NDF}$ : 0.0/1

In: 3481.126+/-2042.111  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3361.372+/-1961.879  $\chi^2/\text{NDF}$ : 0.0/1

cor\_asym\_usl\_atl2\_avg\_rms vs Slug, Sign Corrected



Right In: 1648.130+/-1.444  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1902.000+/-4.998  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

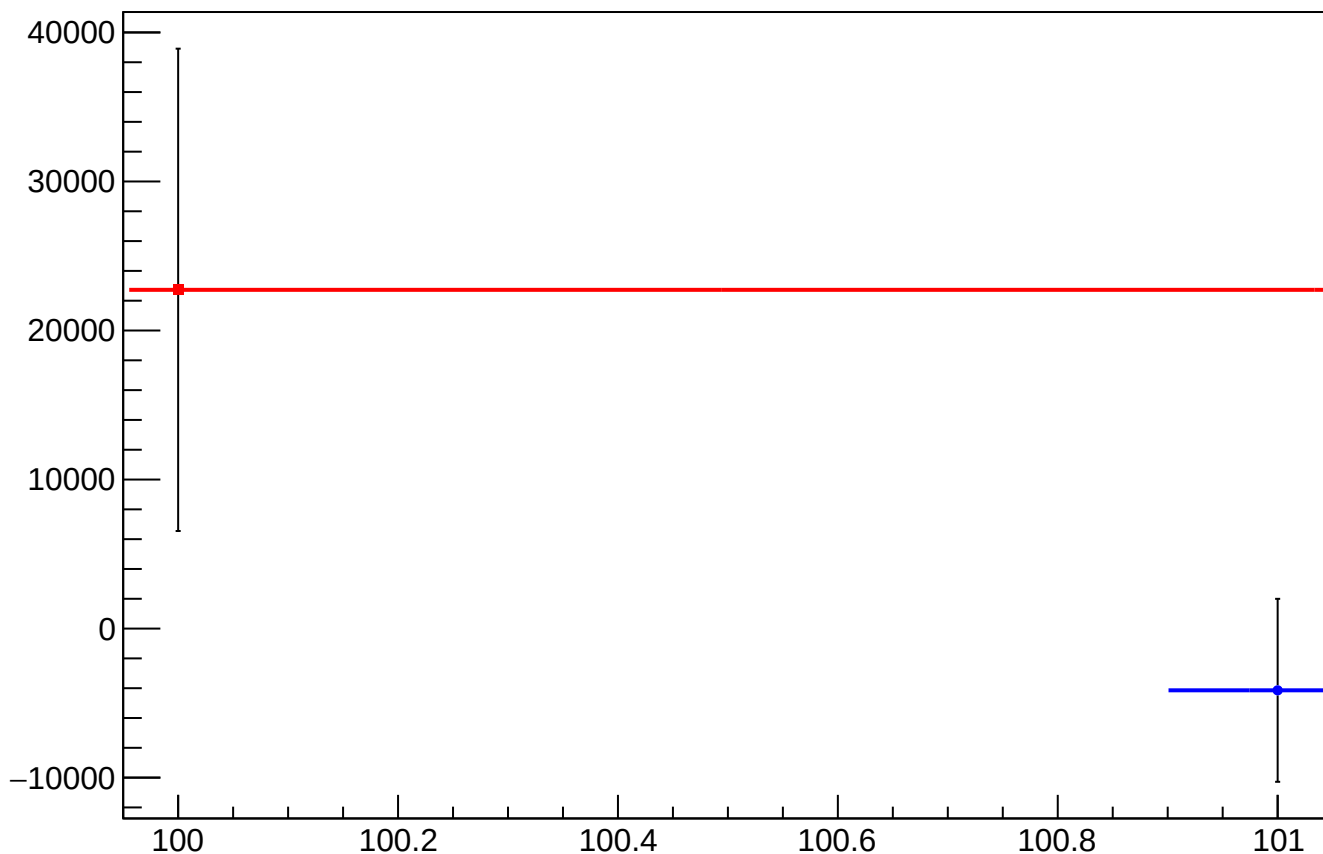
Right: 1667.687+/-1.387  $\chi^2/\text{NDF}$ : 2381.1/1

In: 1648.130+/-1.444  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1667.687+/-1.387  $\chi^2/\text{NDF}$ : 2381.1/1

asym\_usl\_atl2\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -4141.856+/-6138.278  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22729.153+/-16181.675  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

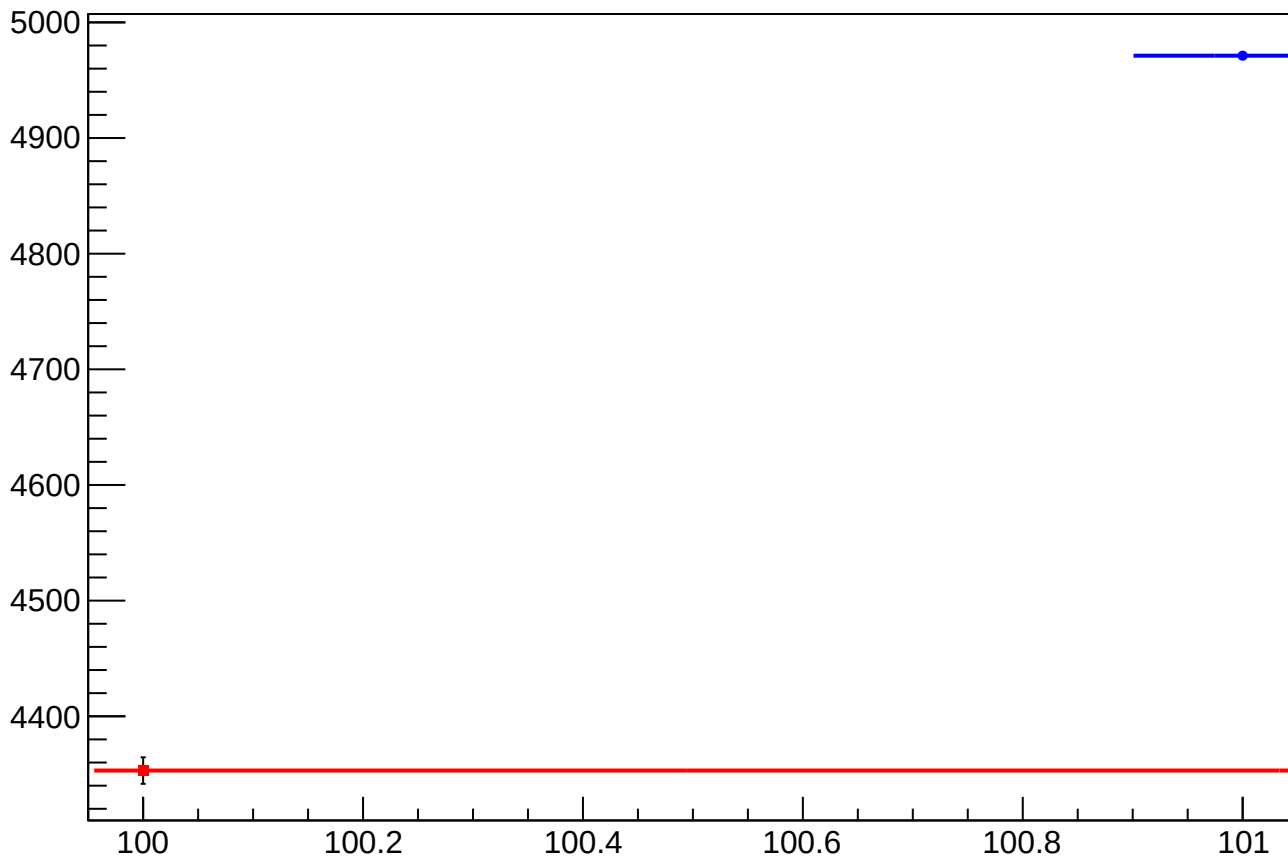
Right: -761.644+/-5739.228  $\chi^2/\text{NDF}$ : 2.4/1

In: -4141.856+/-6138.278  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -761.644+/-5739.228  $\chi^2/\text{NDF}$ : 2.4/1

asym\_usl\_atl2\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4971.198 $\pm$ 4.340  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4353.063 $\pm$ 11.442  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

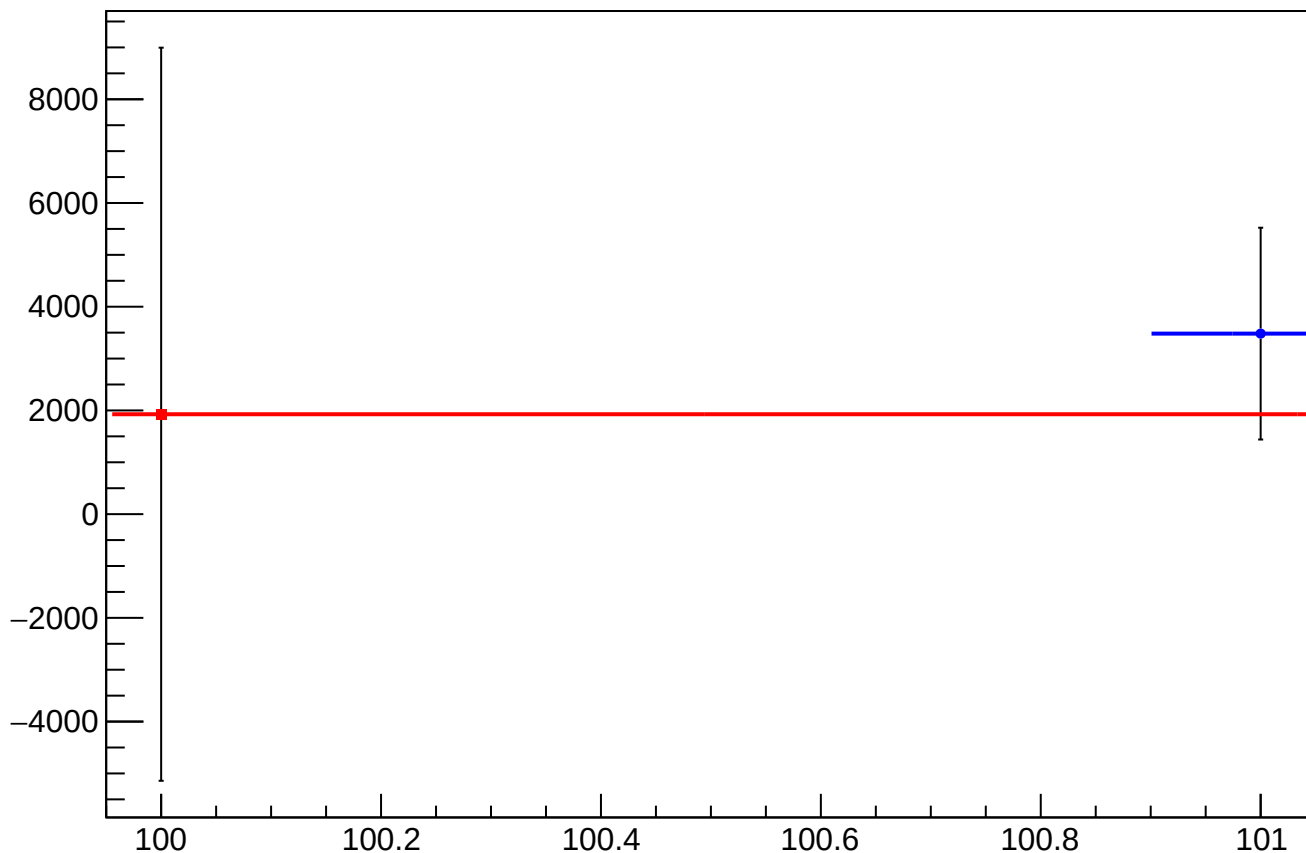
Right: 4893.440 $\pm$ 4.058  $\chi^2/\text{NDF}$ : 2551.3/1

In: 4971.198 $\pm$ 4.340  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4893.440 $\pm$ 4.058  $\chi^2/\text{NDF}$ : 2551.3/1

eigen\_cor\_asym\_usl\_atl2\_avg\_mean vs Slug, Sign Corrected



Right In: 3481.126+/-2042.111  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1926.570+/-7068.544  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

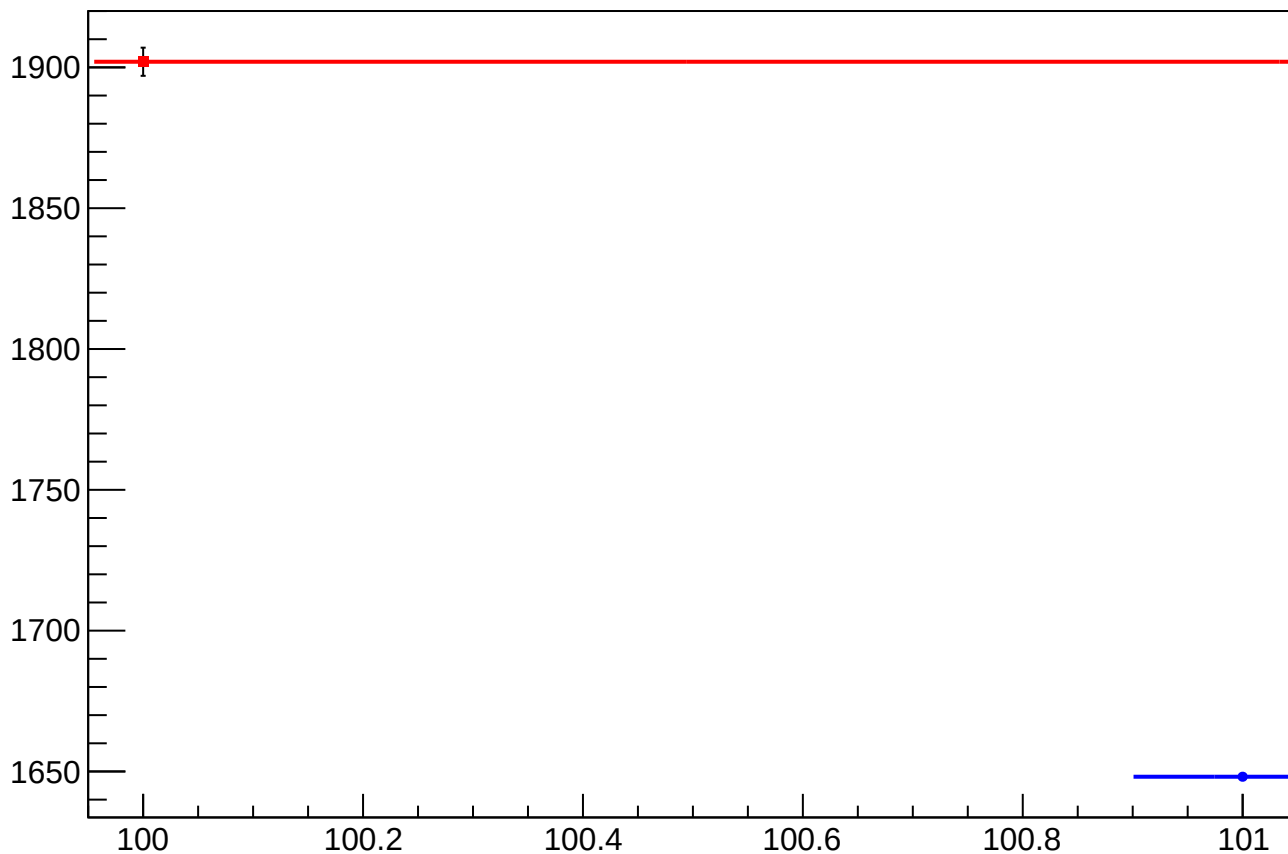
Right: 3361.372+/-1961.879  $\chi^2/\text{NDF}$ : 0.0/1

In: 3481.126+/-2042.111  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3361.372+/-1961.879  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_usl\_atl2\_avg\_rms vs Slug, Sign Corrected



Right In: 1648.130+/-1.444  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1902.000+/-4.998  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

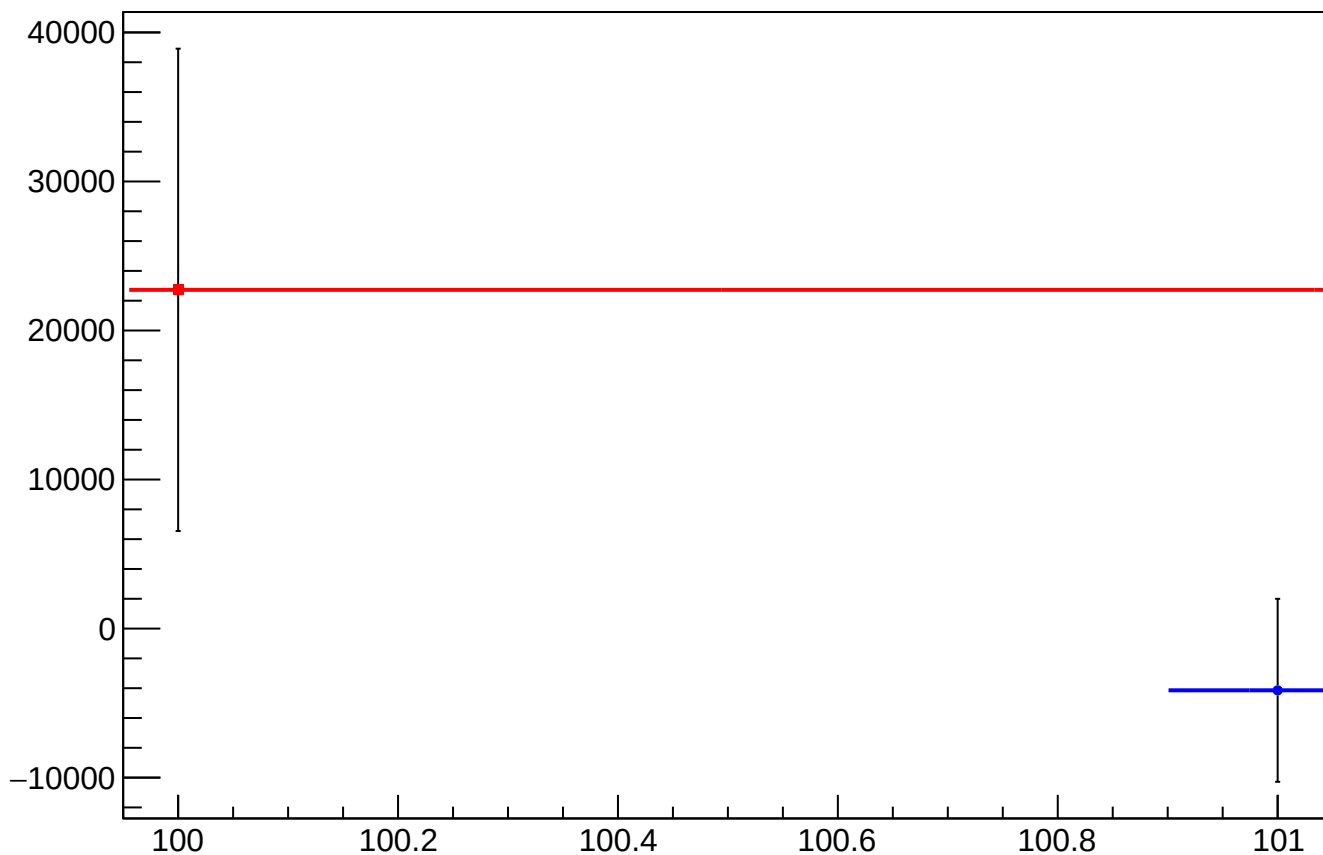
Right: 1667.687+/-1.387  $\chi^2/\text{NDF}$ : 2381.1/1

In: 1648.130+/-1.444  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1667.687+/-1.387  $\chi^2/\text{NDF}$ : 2381.1/1

asym\_usl\_atl2\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -4141.856+/-6138.278  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22729.153+/-16181.675  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

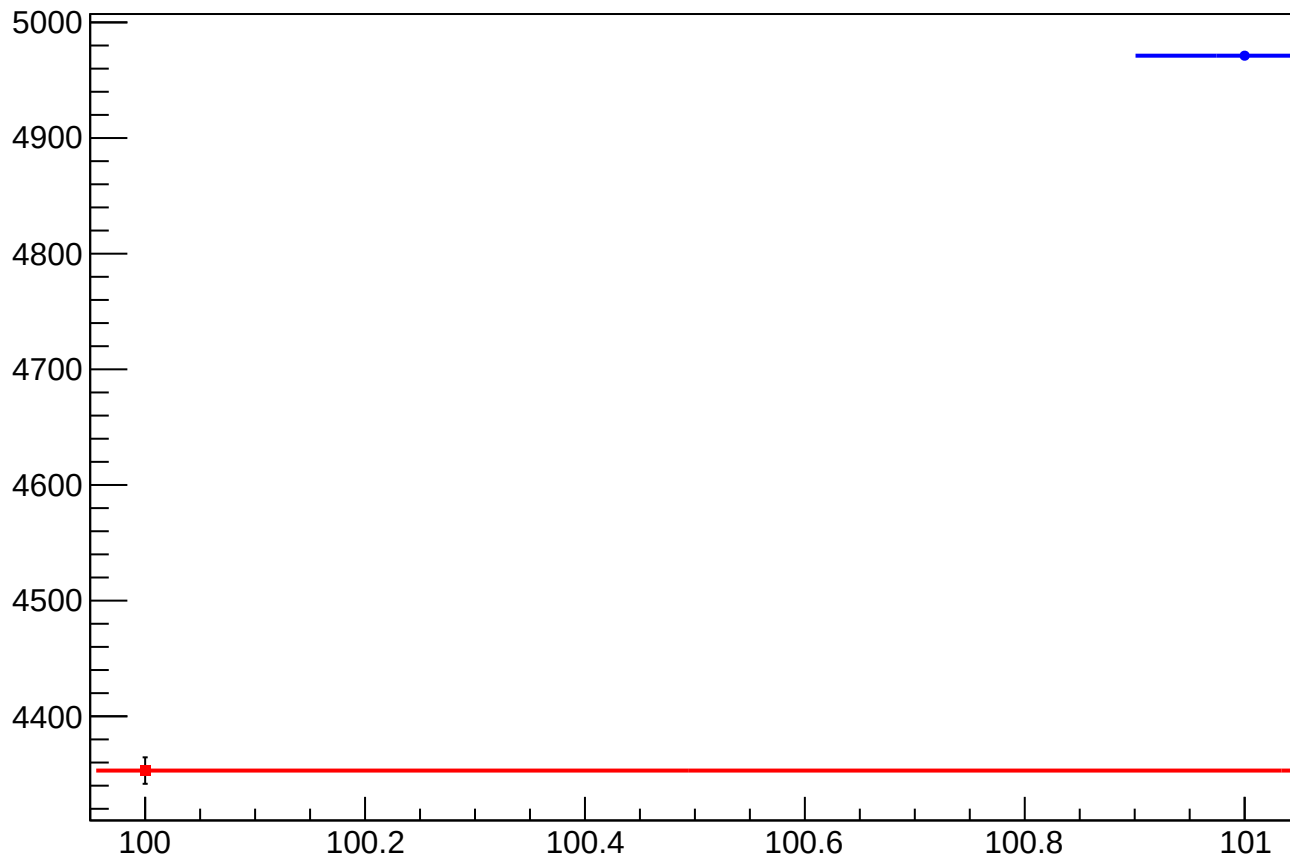
Right: -761.644+/-5739.228  $\chi^2/\text{NDF}$ : 2.4/1

In: -4141.856+/-6138.278  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -761.644+/-5739.228  $\chi^2/\text{NDF}$ : 2.4/1

asym\_usl\_atl2\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4971.198 $\pm$ 4.340  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4353.063 $\pm$ 11.442  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4893.440 $\pm$ 4.058  $\chi^2$ /NDF: 2551.3/1

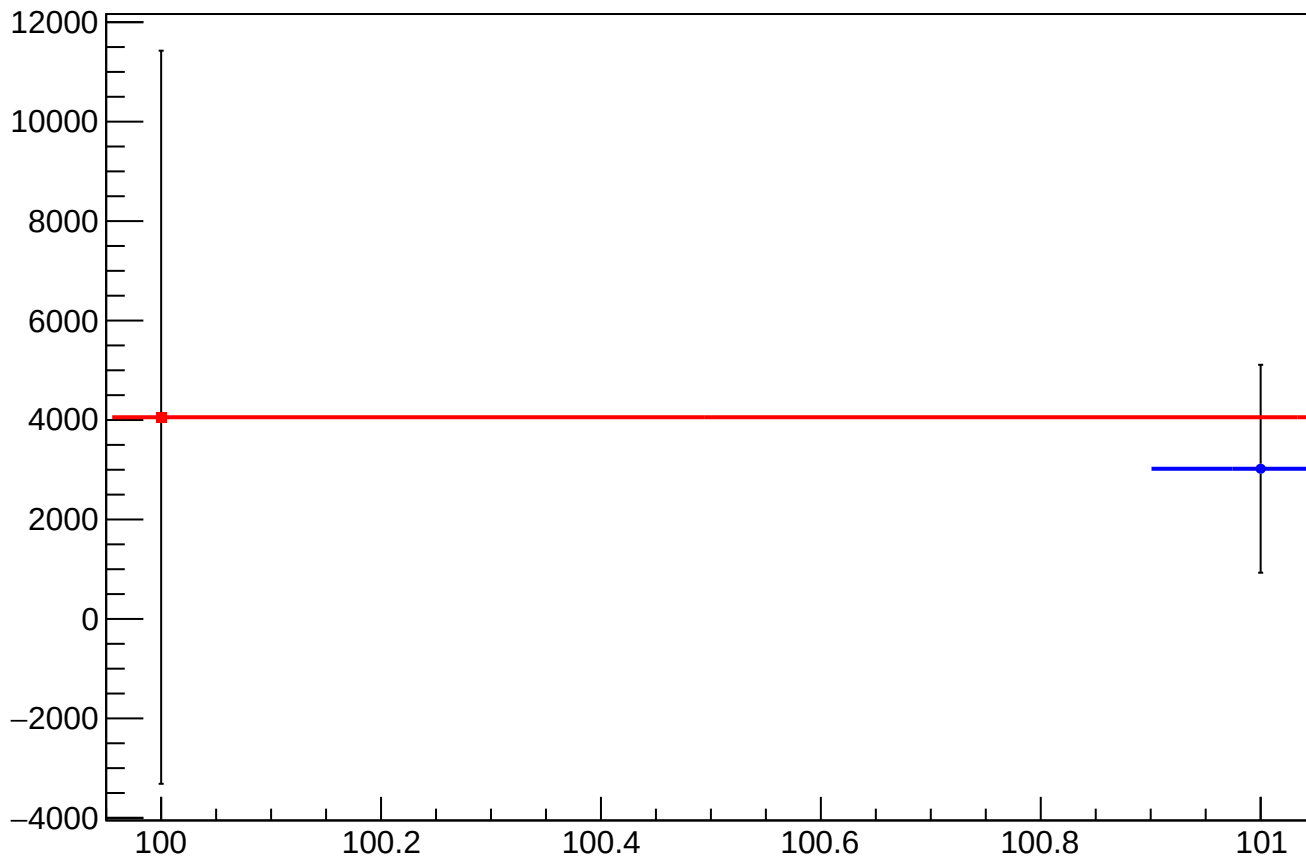
In: 4971.198 $\pm$ 4.340  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4893.440 $\pm$ 4.058  $\chi^2$ /NDF: 2551.3/1



dit\_asym\_usl\_atl2\_avg\_mean vs Slug, Sign Corrected



Right In: 3020.074+/-2090.501  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4056.095+/-7371.091  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

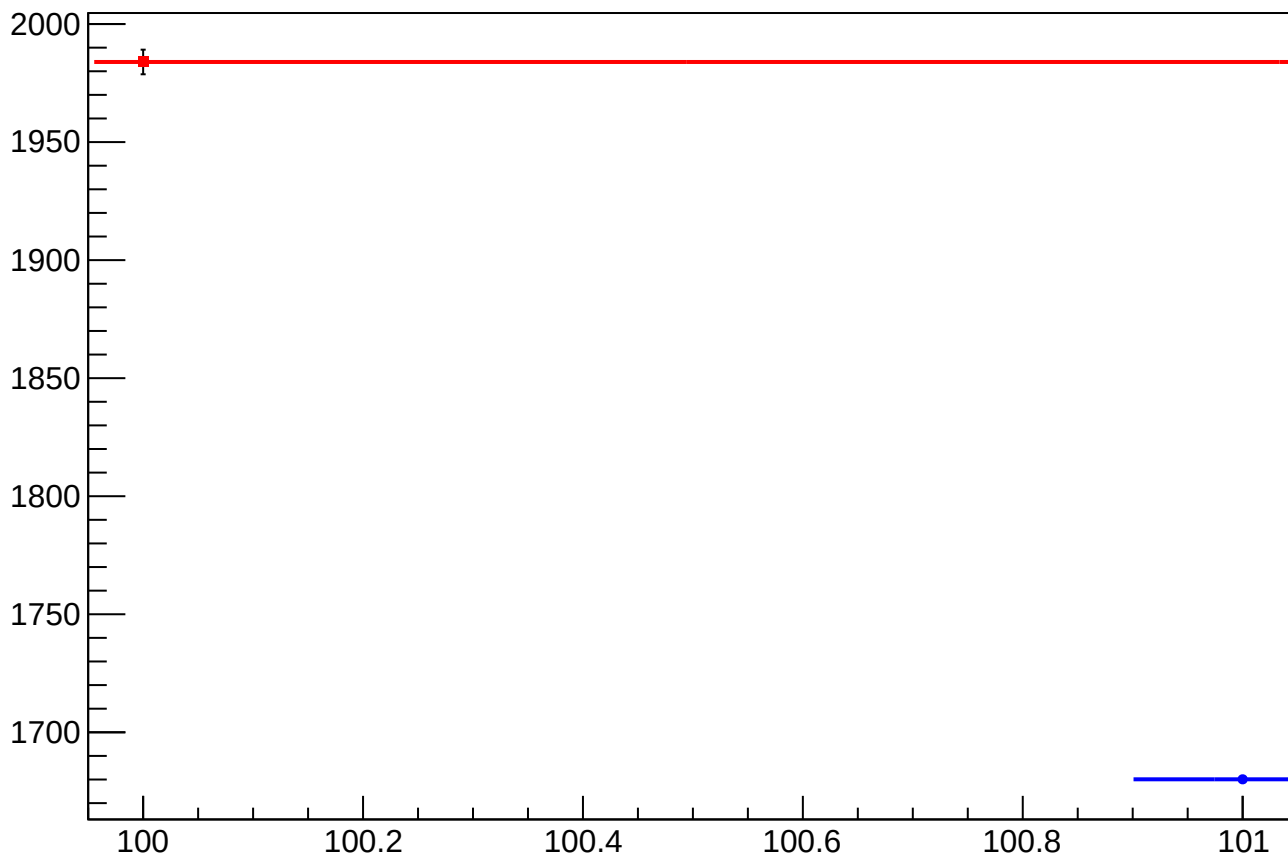
Right: 3097.201+/-2011.182  $\chi^2/\text{NDF}$ : 0.0/1

In: 3020.074+/-2090.501  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3097.201+/-2011.182  $\chi^2/\text{NDF}$ : 0.0/1

dit\_asym\_usl\_atl2\_avg\_rms vs Slug, Sign Corrected



Right In: 1680.089 $\pm$ 1.478  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1983.933 $\pm$ 5.212  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

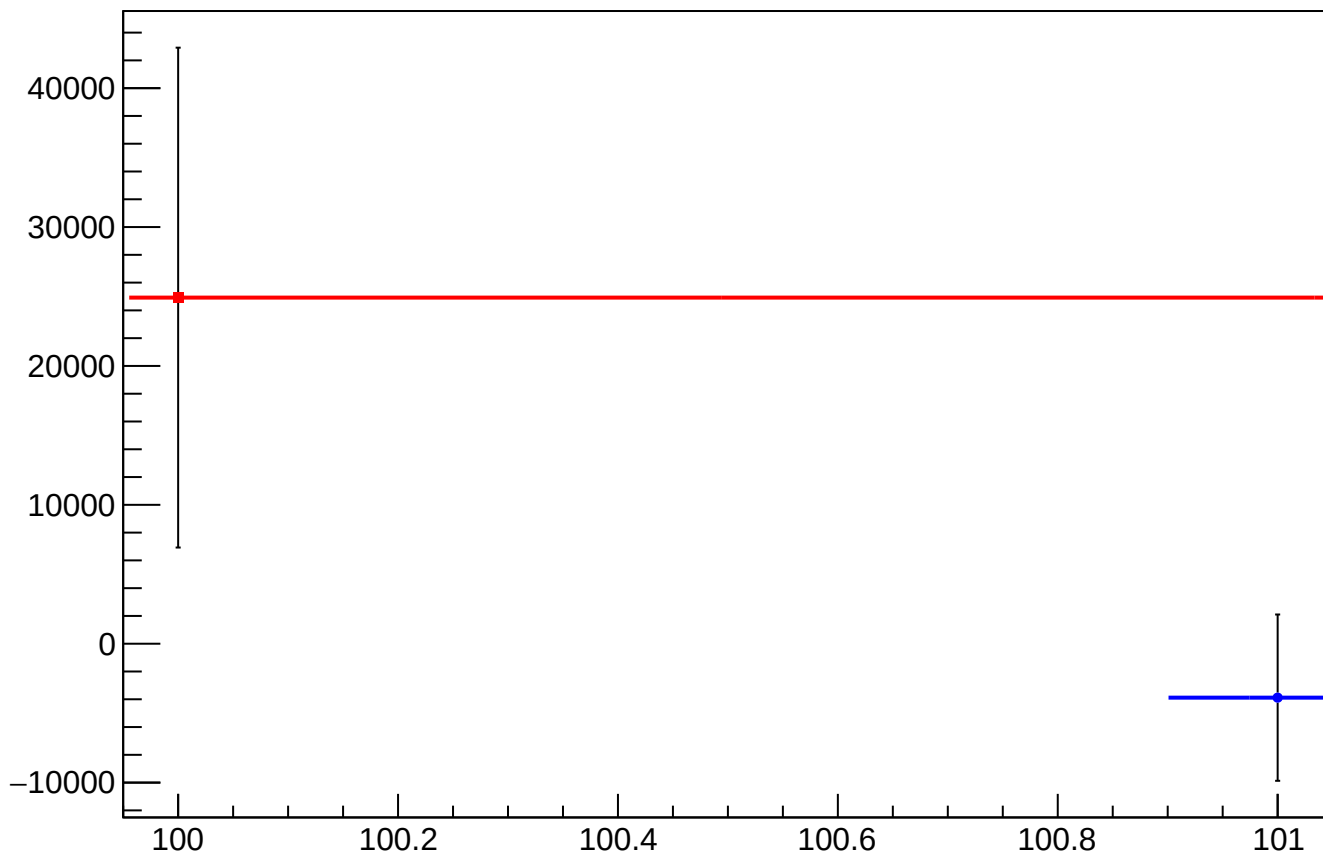
Right: 1702.709 $\pm$ 1.422  $\chi^2$ /NDF: 3145.4/1

In: 1680.089 $\pm$ 1.478  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1702.709 $\pm$ 1.422  $\chi^2$ /NDF: 3145.4/1

asym\_usl\_atl2\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3883.111+/-5986.775  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24920.355+/-17995.286  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

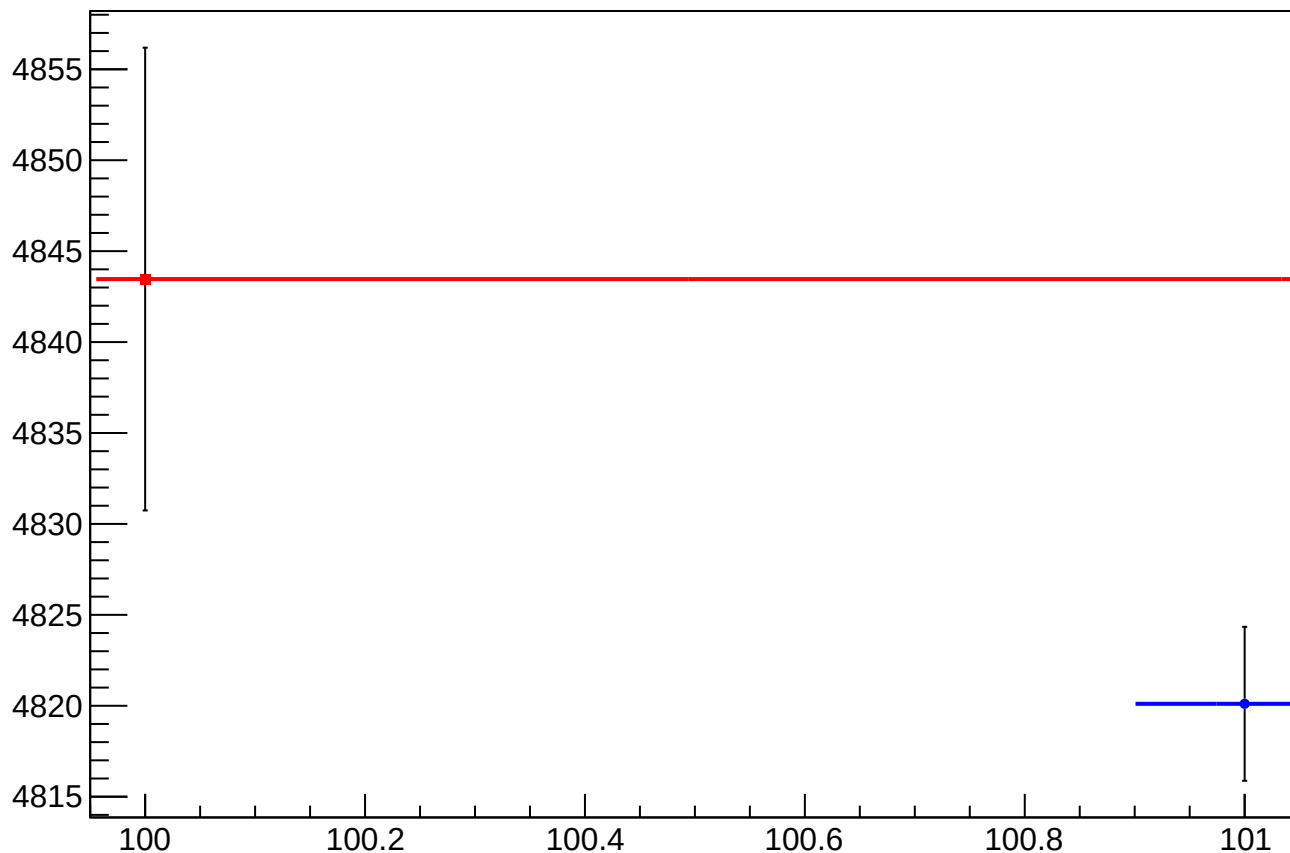
Right: -1012.831+/-5680.656  $\chi^2/\text{NDF}$ : 2.3/1

In: -3883.111+/-5986.775  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1012.831+/-5680.656  $\chi^2/\text{NDF}$ : 2.3/1

asym\_usl\_atl2\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4820.108 $\pm$ 4.233  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4843.465 $\pm$ 12.725  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

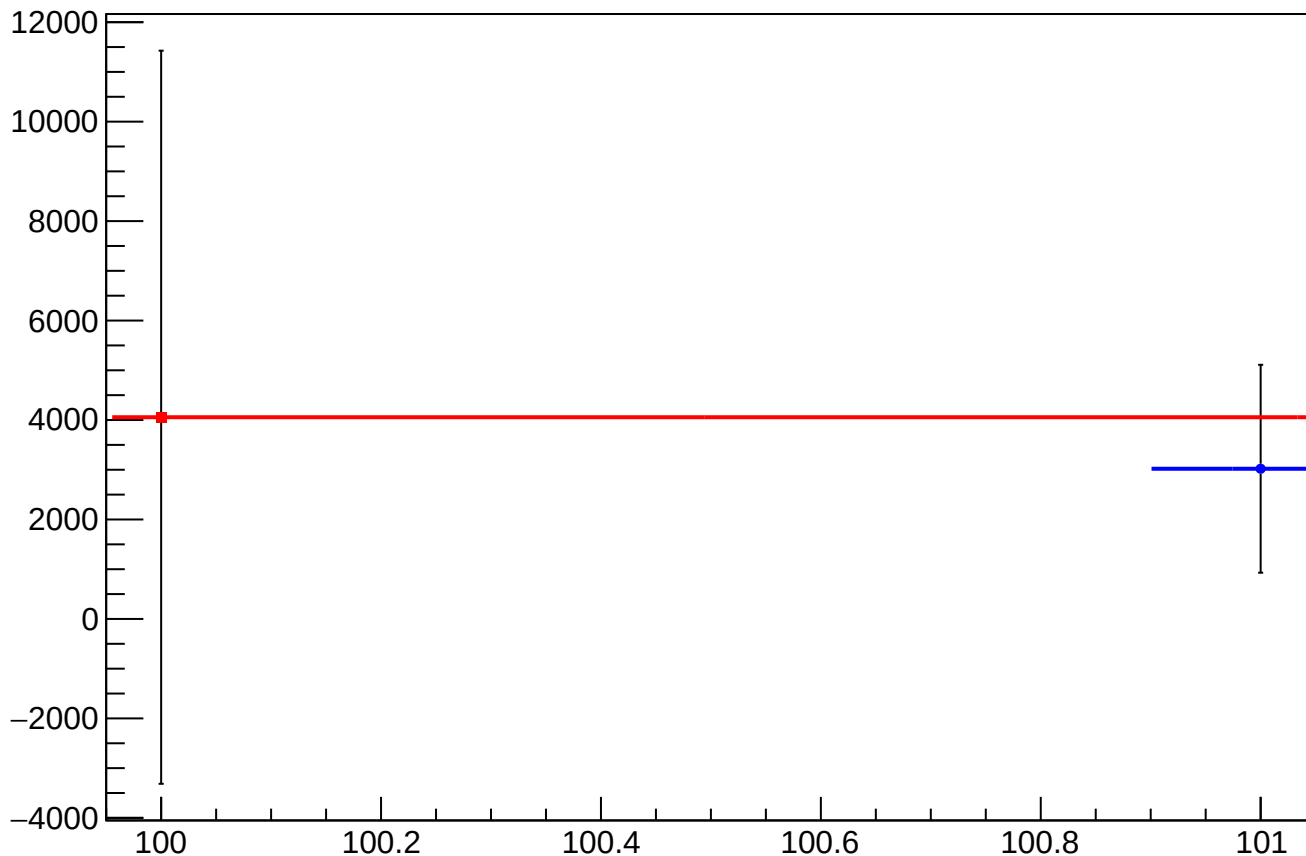
Right: 4822.435 $\pm$ 4.017  $\chi^2$ /NDF: 3.0/1

In: 4820.108 $\pm$ 4.233  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 4822.435 $\pm$ 4.017  $\chi^2$ /NDF: 3.0/1

eigen\_dit\_asym\_usl\_atl2\_avg\_mean vs Slug, Sign Corrected



Right In: 3020.072 $\pm$ 2090.501  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4056.088 $\pm$ 7371.085  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

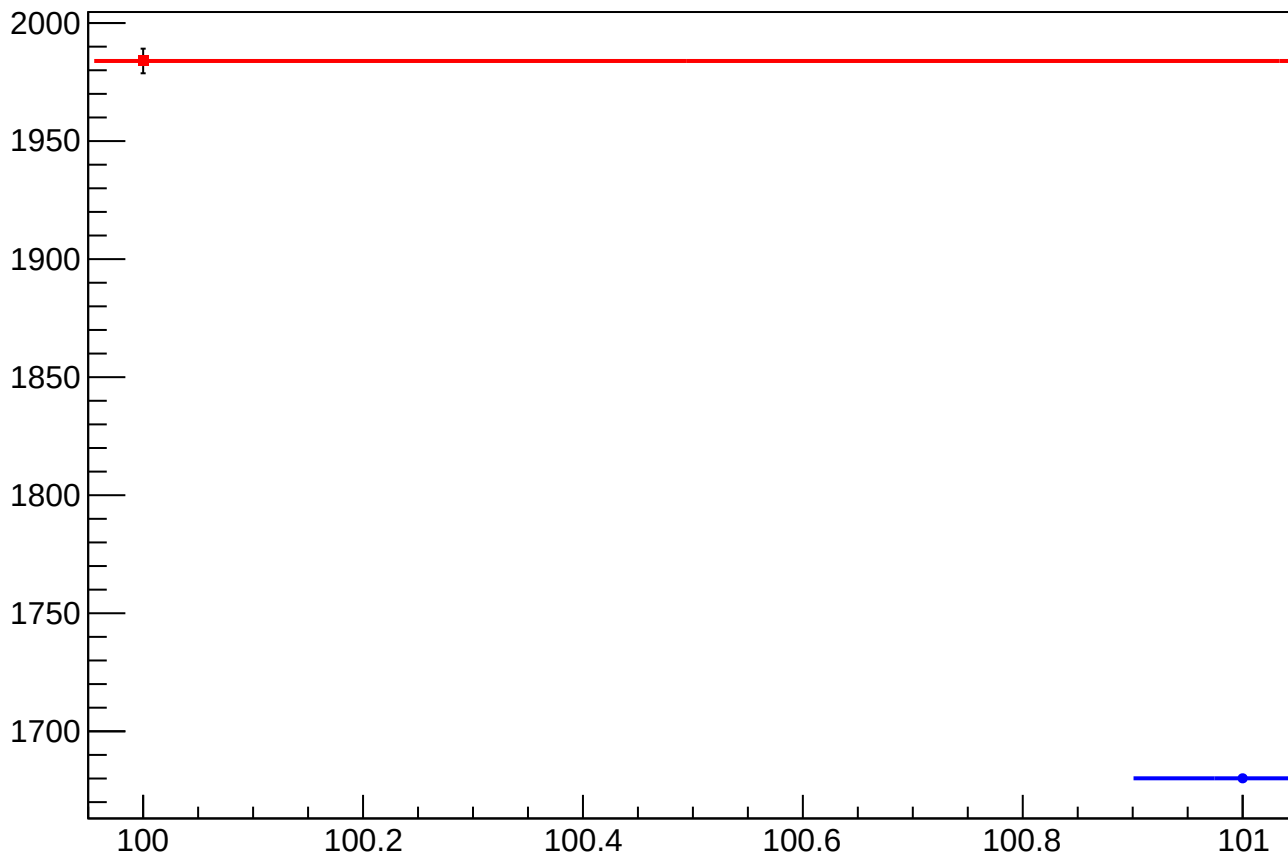
Right: 3097.199 $\pm$ 2011.182  $\chi^2/\text{NDF}$ : 0.0/1

In: 3020.072 $\pm$ 2090.501  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3097.199 $\pm$ 2011.182  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_usl\_atl2\_avg\_rms vs Slug, Sign Corrected



Right In: 1680.089+/-1.478  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1983.932+/-5.212  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

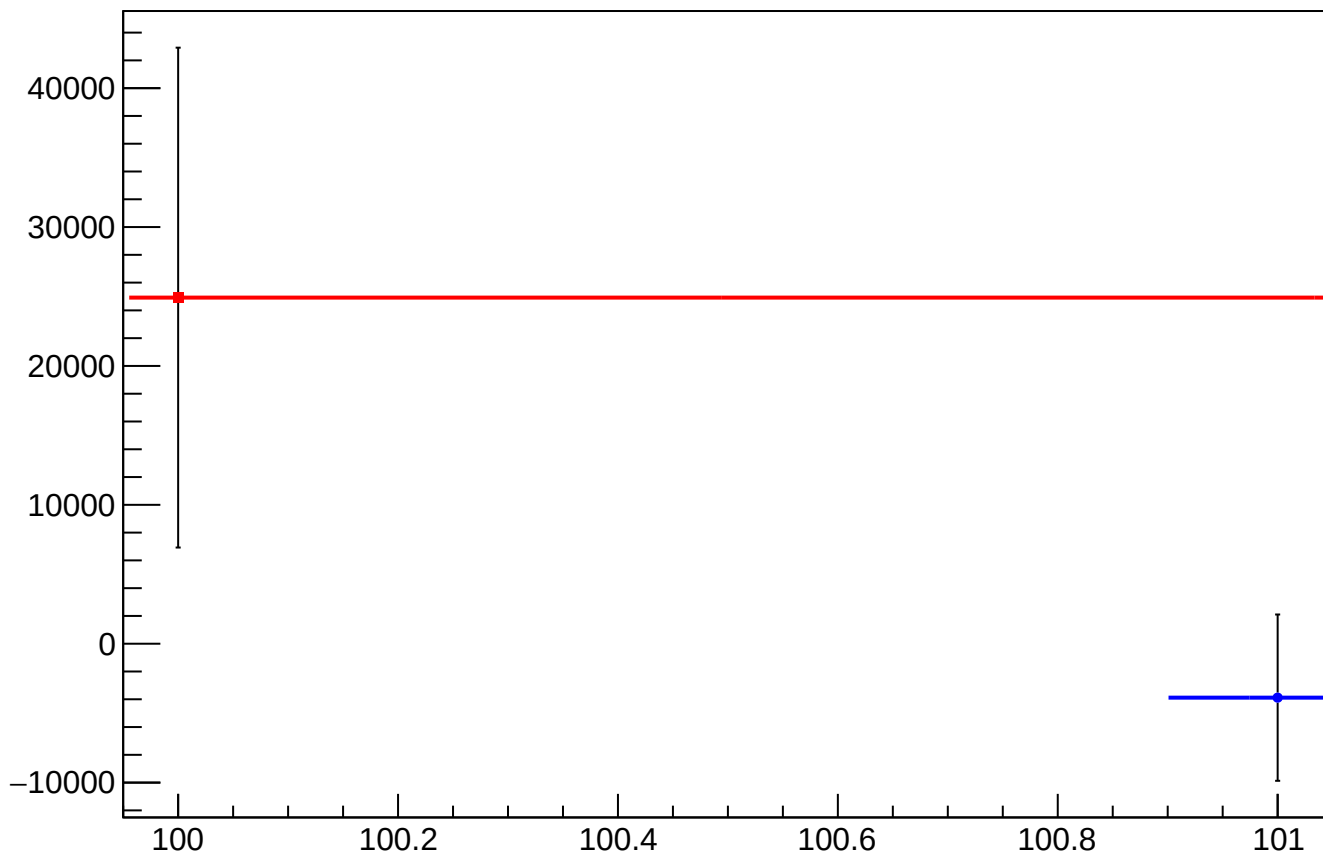
Right: 1702.709+/-1.422  $\chi^2/\text{NDF}$ : 3145.3/1

In: 1680.089+/-1.478  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1702.709+/-1.422  $\chi^2/\text{NDF}$ : 3145.3/1

asym\_usl\_atl2\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3883.111+/-5986.766  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24920.342+/-17995.259  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

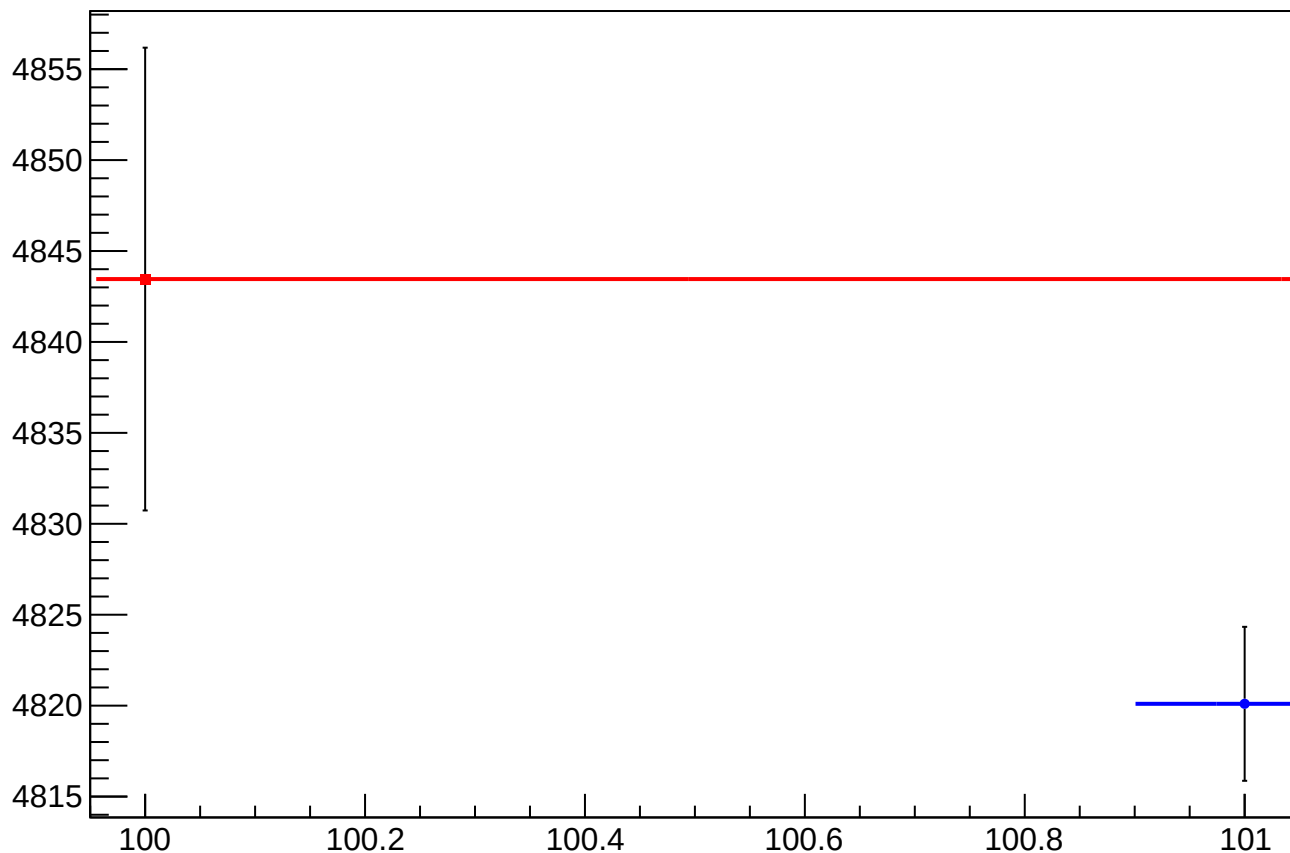
Right: -1012.832+/-5680.648  $\chi^2/\text{NDF}$ : 2.3/1

In: -3883.111+/-5986.766  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1012.832+/-5680.648  $\chi^2/\text{NDF}$ : 2.3/1

asym\_usl\_atl2\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4820.101 $\pm$ 4.233  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4843.457 $\pm$ 12.725  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4822.428 $\pm$ 4.017  $\chi^2$ /NDF: 3.0/1

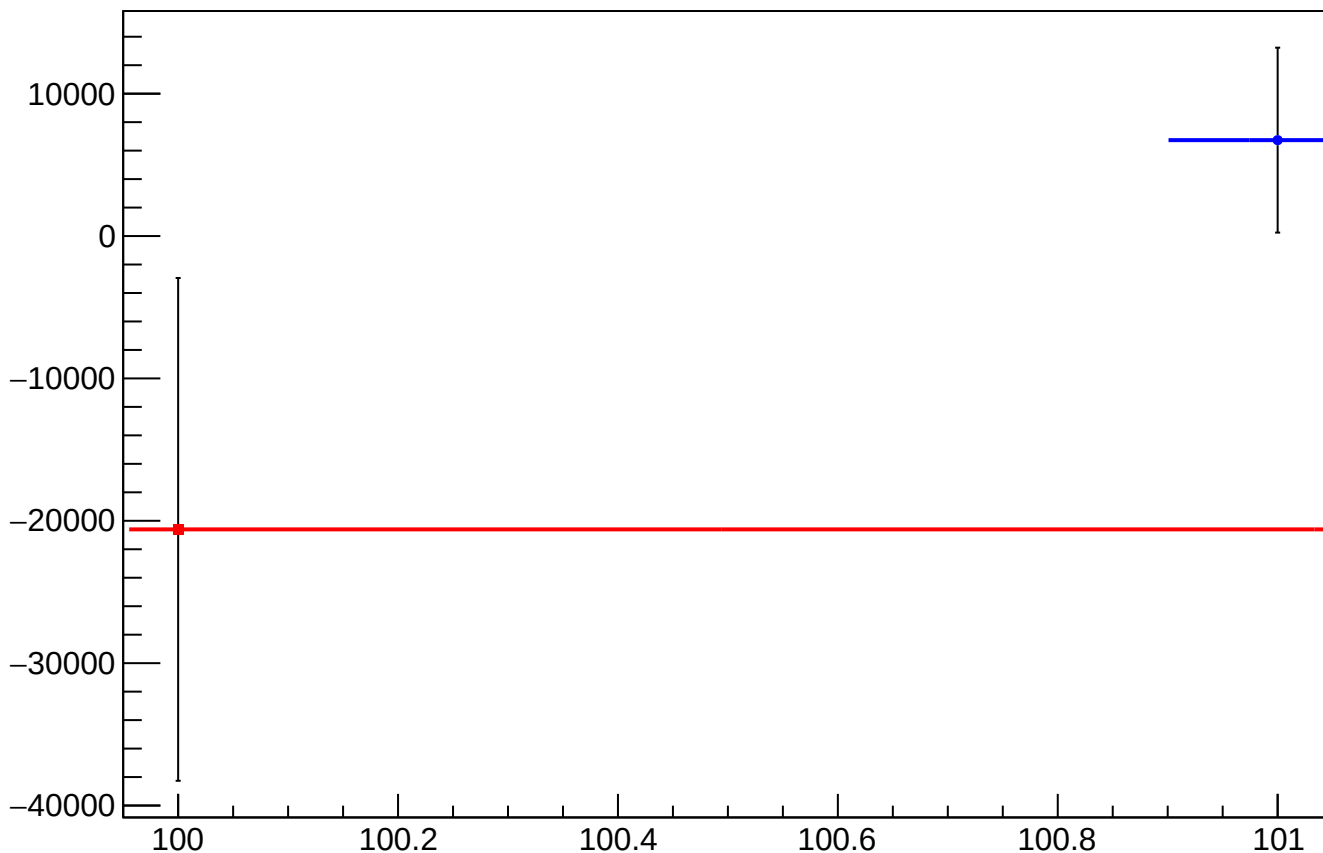
In: 4820.101 $\pm$ 4.233  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4822.428 $\pm$ 4.017  $\chi^2$ /NDF: 3.0/1



asym\_usl\_atl2\_avg\_mean vs Slug, Sign Corrected



Right In: 6736.503+/-6494.839  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20603.691+/-17658.956  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

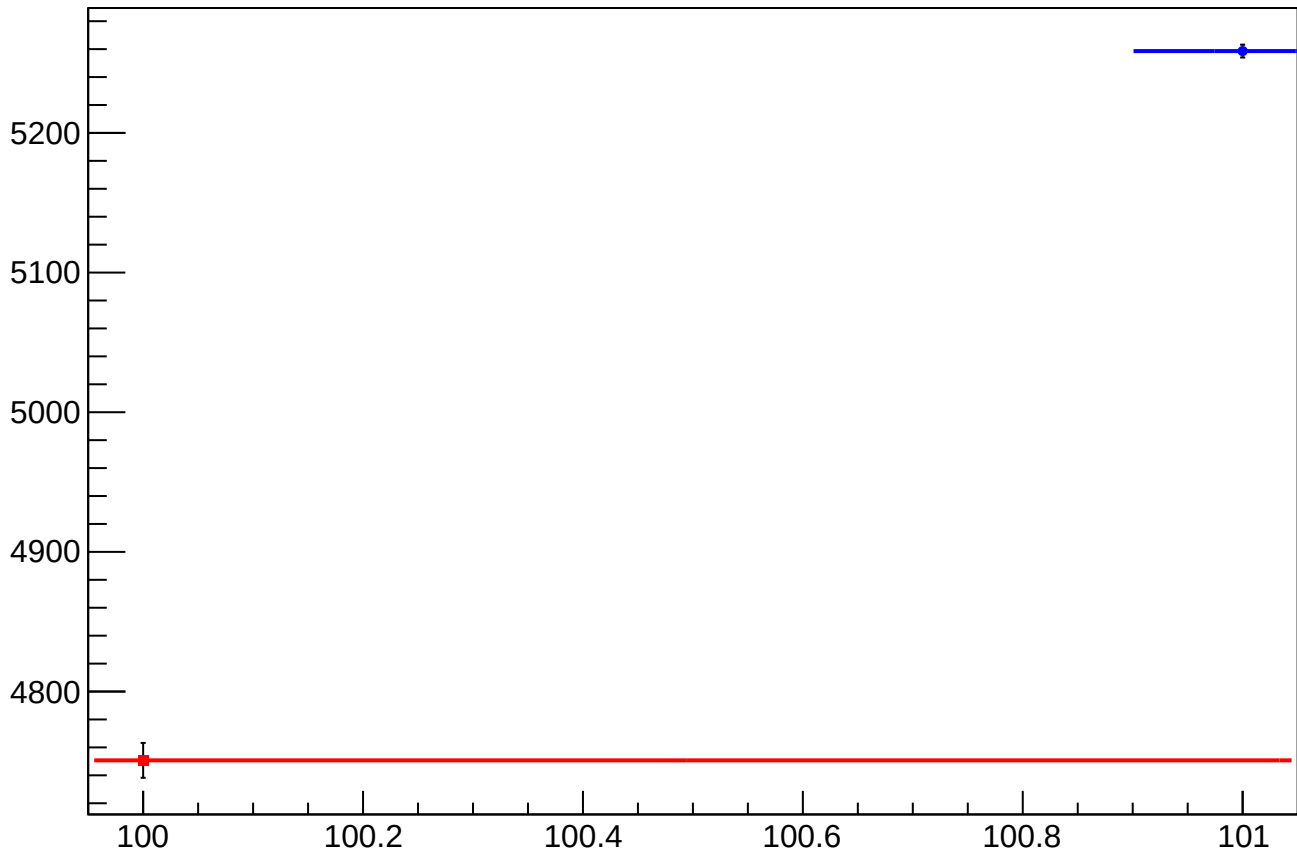
Right: 3478.822+/-6095.629  $\chi^2/\text{NDF}$ : 2.1/1

In: 6736.503+/-6494.839  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3478.822+/-6095.629  $\chi^2/\text{NDF}$ : 2.1/1

# asym\_usl\_atl2\_avg\_rms vs Slug, Sign Corrected



Right In: 5258.602 $\pm$ 4.593  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4750.715 $\pm$ 12.487  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

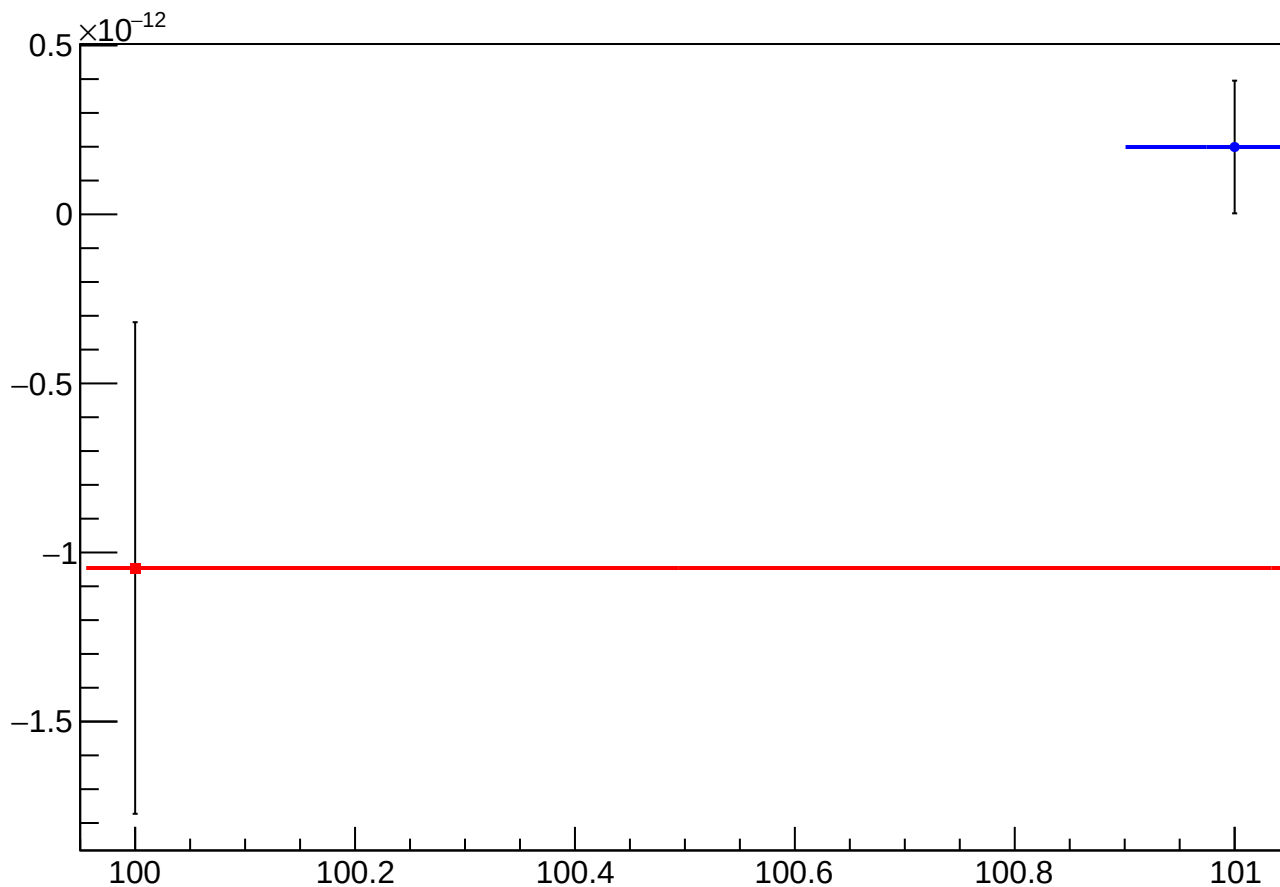
Right: 5198.086 $\pm$ 4.310  $\chi^2$ /NDF: 1457.3/1

In: 5258.602 $\pm$ 4.593  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5198.086 $\pm$ 4.310  $\chi^2$ /NDF: 1457.3/1

asym\_usl\_atl2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

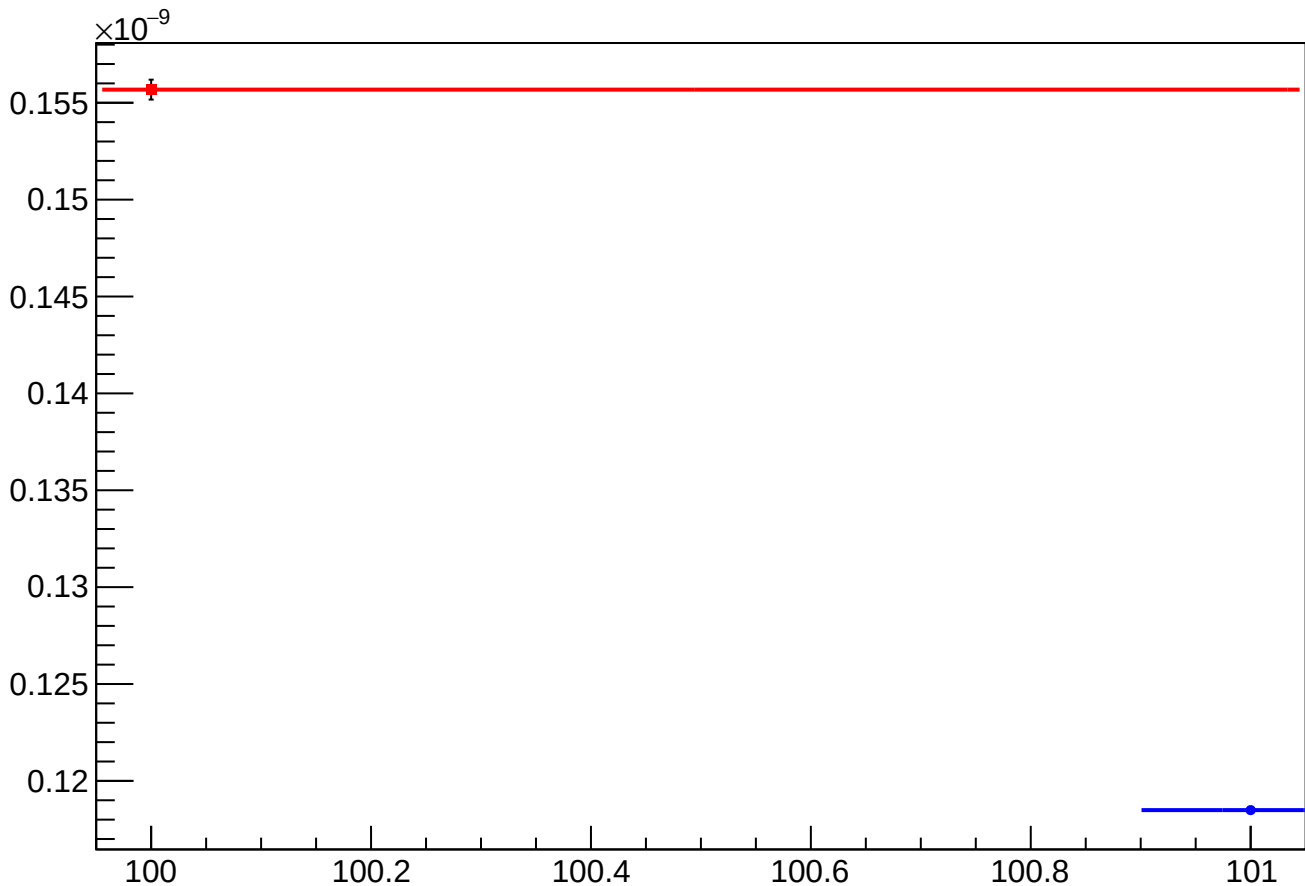
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.7/1

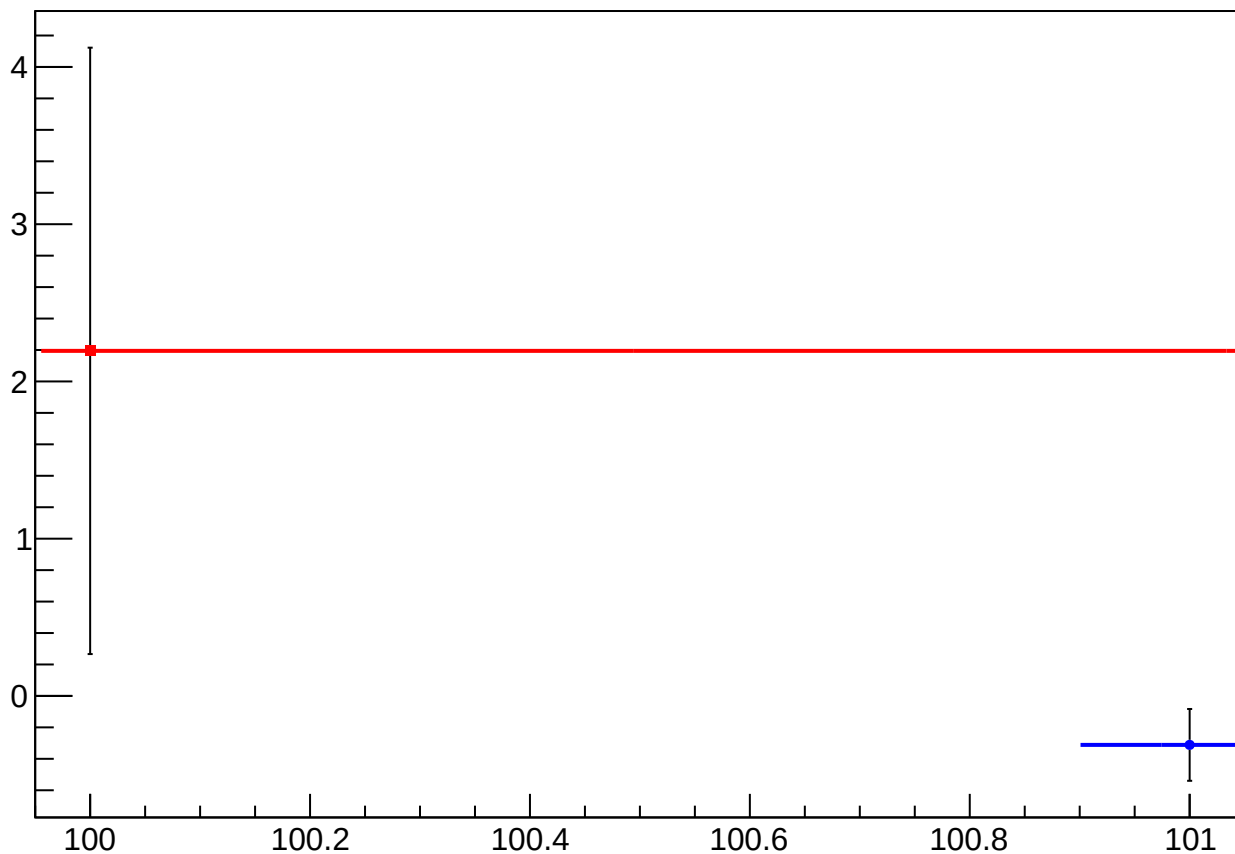
asym\_usl\_atl2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Right: 0.000+/-0.000  $\chi^2$ /NDF: 4878.4/1  
 In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 All: 0.000+/-0.000  $\chi^2$ /NDF: 4878.4/1

asym\_usl\_atl2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.311 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.194 $\pm$ 1.928  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

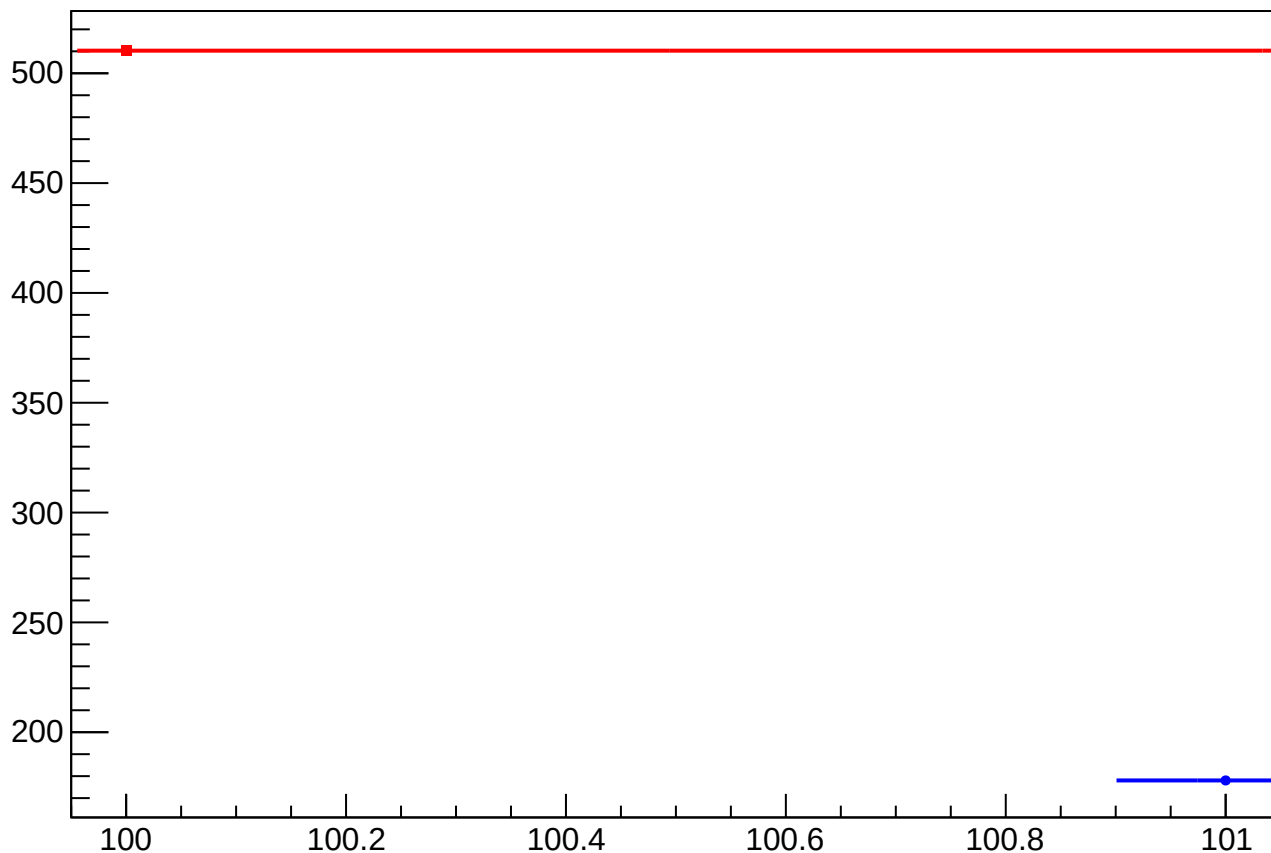
Right: -0.277 $\pm$ 0.227  $\chi^2$ /NDF: 1.7/1

In: -0.311 $\pm$ 0.228  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.277 $\pm$ 0.227  $\chi^2$ /NDF: 1.7/1

asym\_usl\_atl2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 178.043 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 510.296 $\pm$ 1.363  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

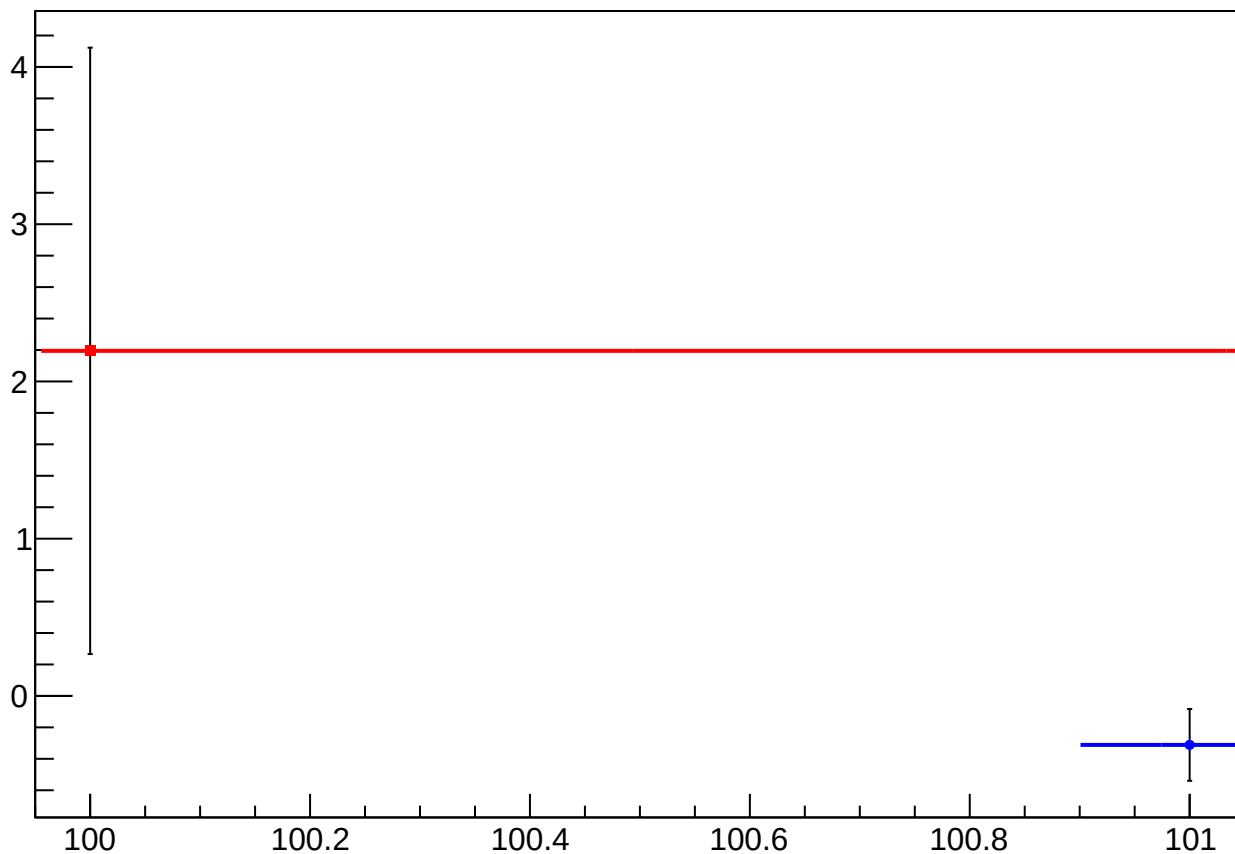
Right: 182.638 $\pm$ 0.160  $\chi^2$ /NDF: 58558.2/1

In: 178.043 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 182.638 $\pm$ 0.160  $\chi^2$ /NDF: 58558.2/1

asym\_usl\_atl2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.311 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.194 $\pm$ 1.928  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

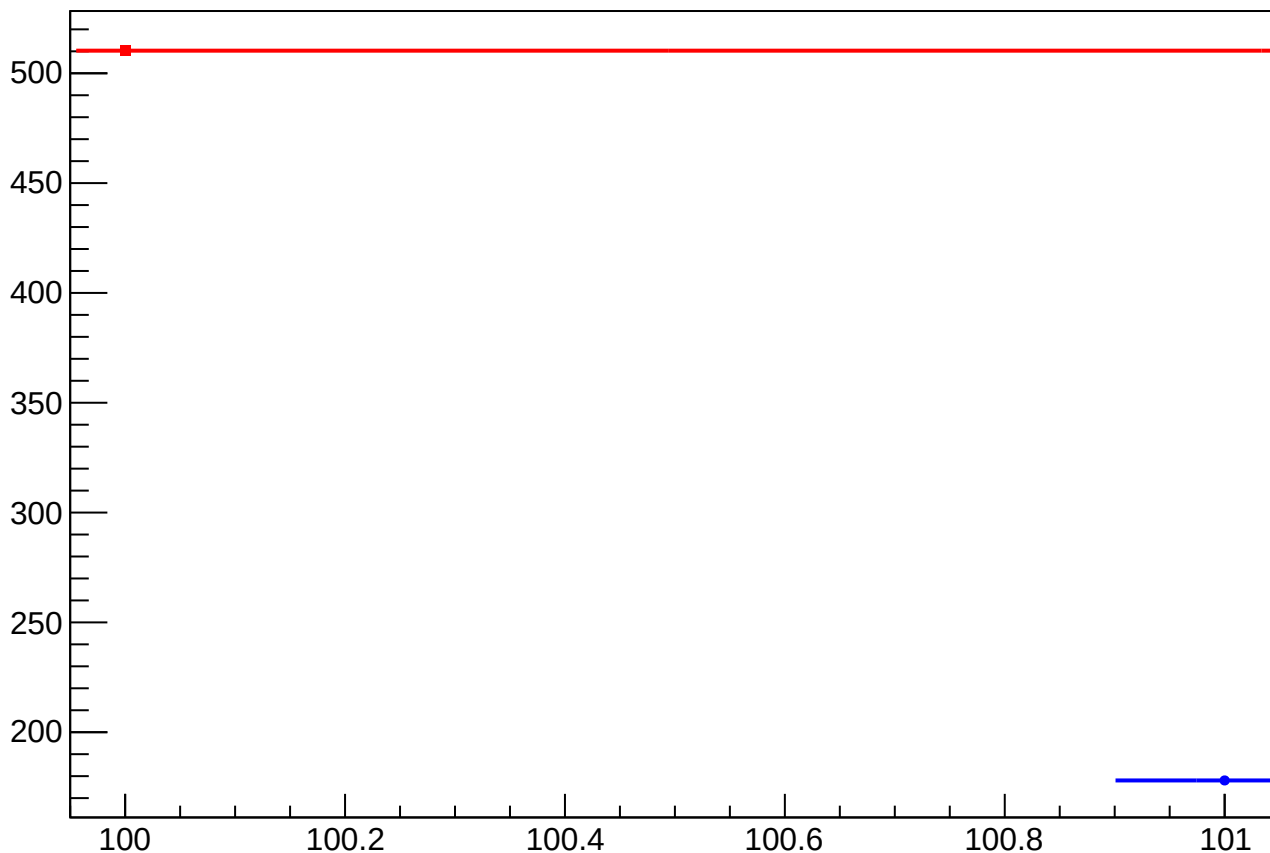
Right: -0.277 $\pm$ 0.227  $\chi^2$ /NDF: 1.7/1

In: -0.311 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.277 $\pm$ 0.227  $\chi^2$ /NDF: 1.7/1

asym\_usl\_atl2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 178.043 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 510.296 $\pm$ 1.363  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 182.638 $\pm$ 0.160  $\chi^2$ /NDF: 58558.2/1

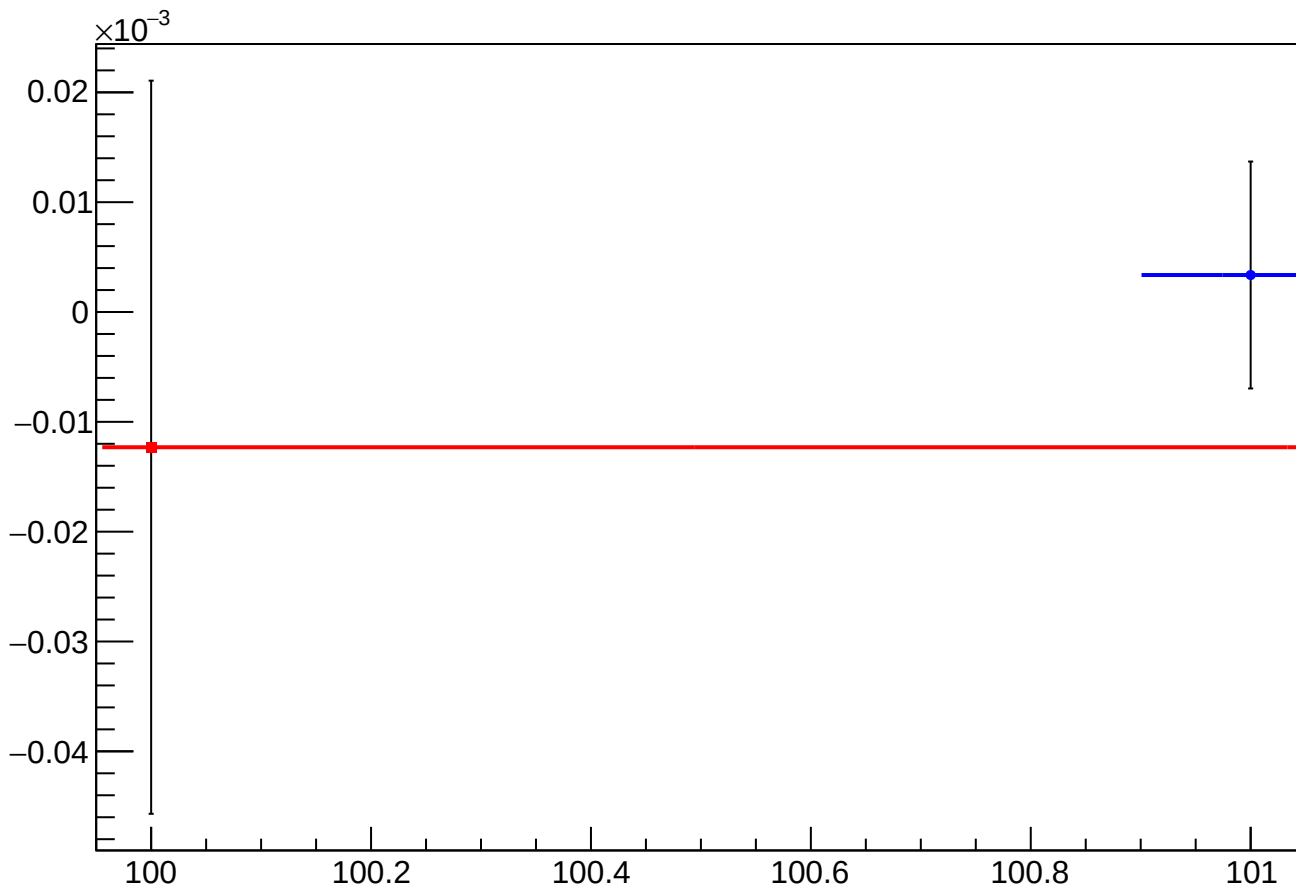
In: 178.043 $\pm$ 0.161  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 182.638 $\pm$ 0.160  $\chi^2$ /NDF: 58558.2/1



asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

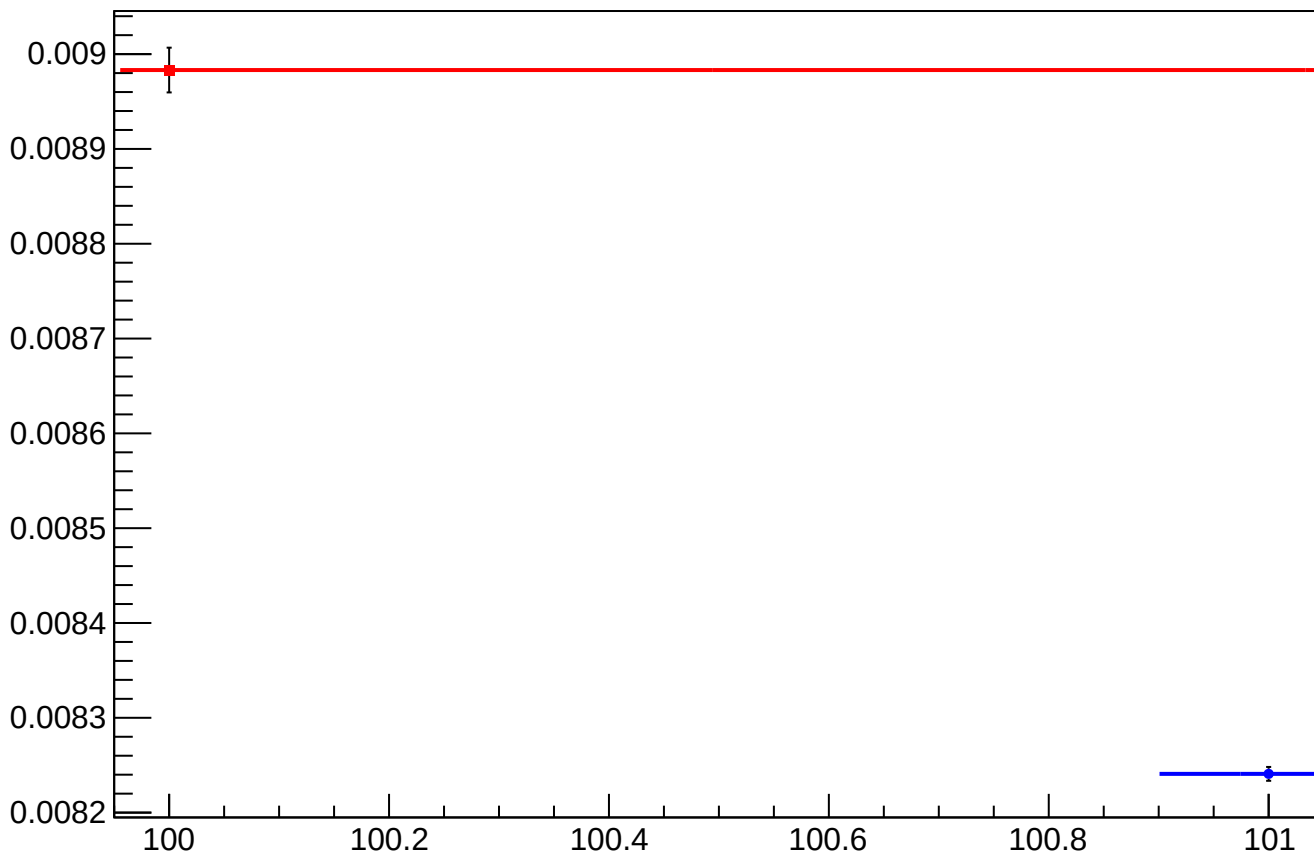
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

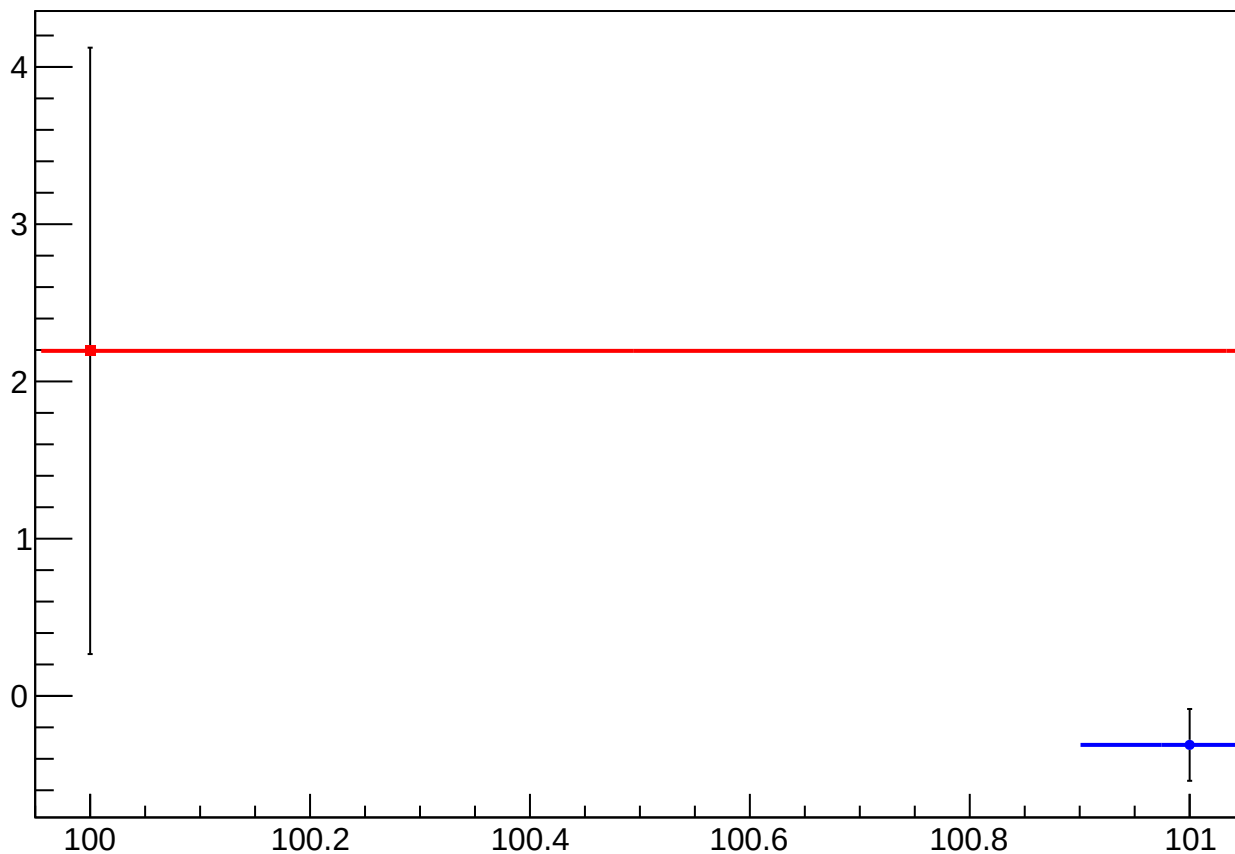
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 902.9/1

In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 902.9/1

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.311 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.194 $\pm$ 1.928  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

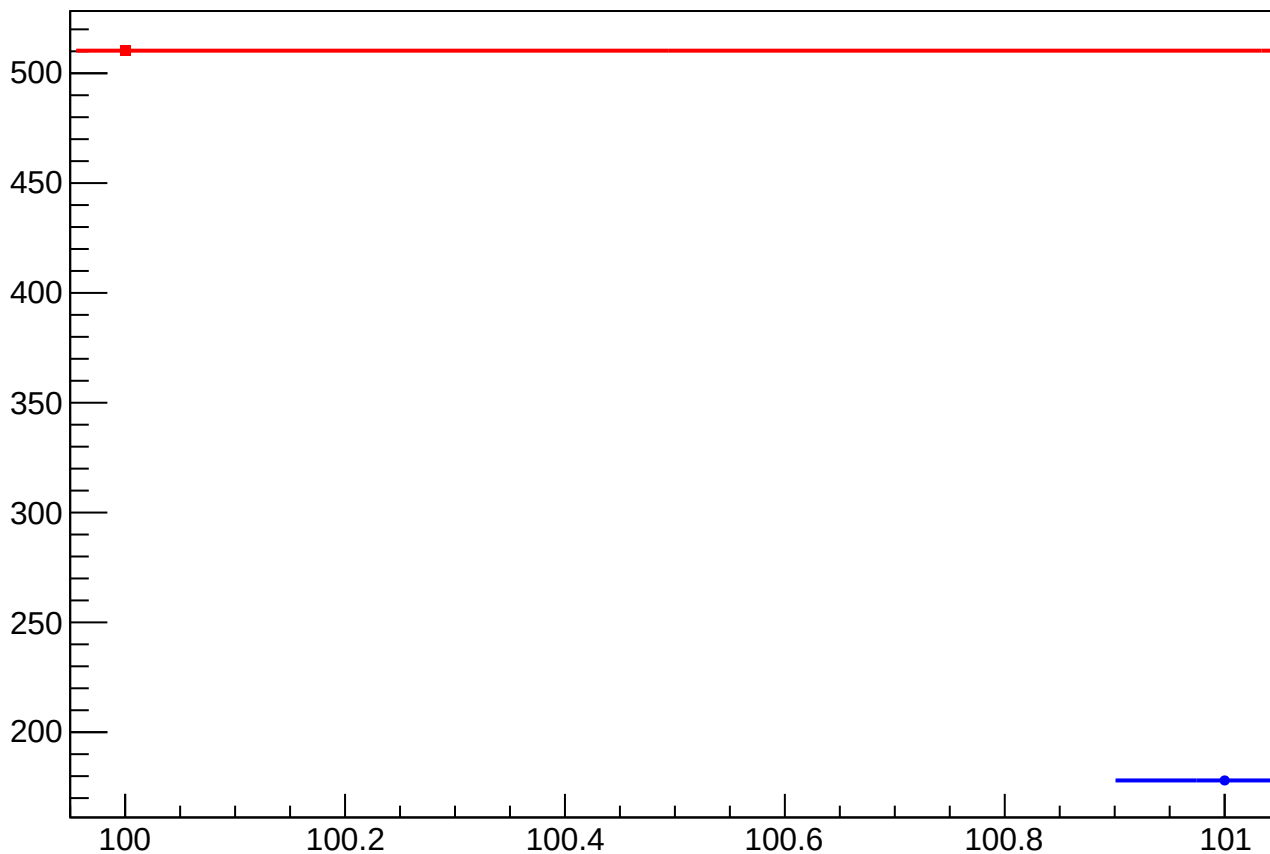
Right: -0.277 $\pm$ 0.227  $\chi^2$ /NDF: 1.7/1

In: -0.311 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.277 $\pm$ 0.227  $\chi^2$ /NDF: 1.7/1

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 178.039 $\pm$ 0.161  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 510.291 $\pm$ 1.363  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

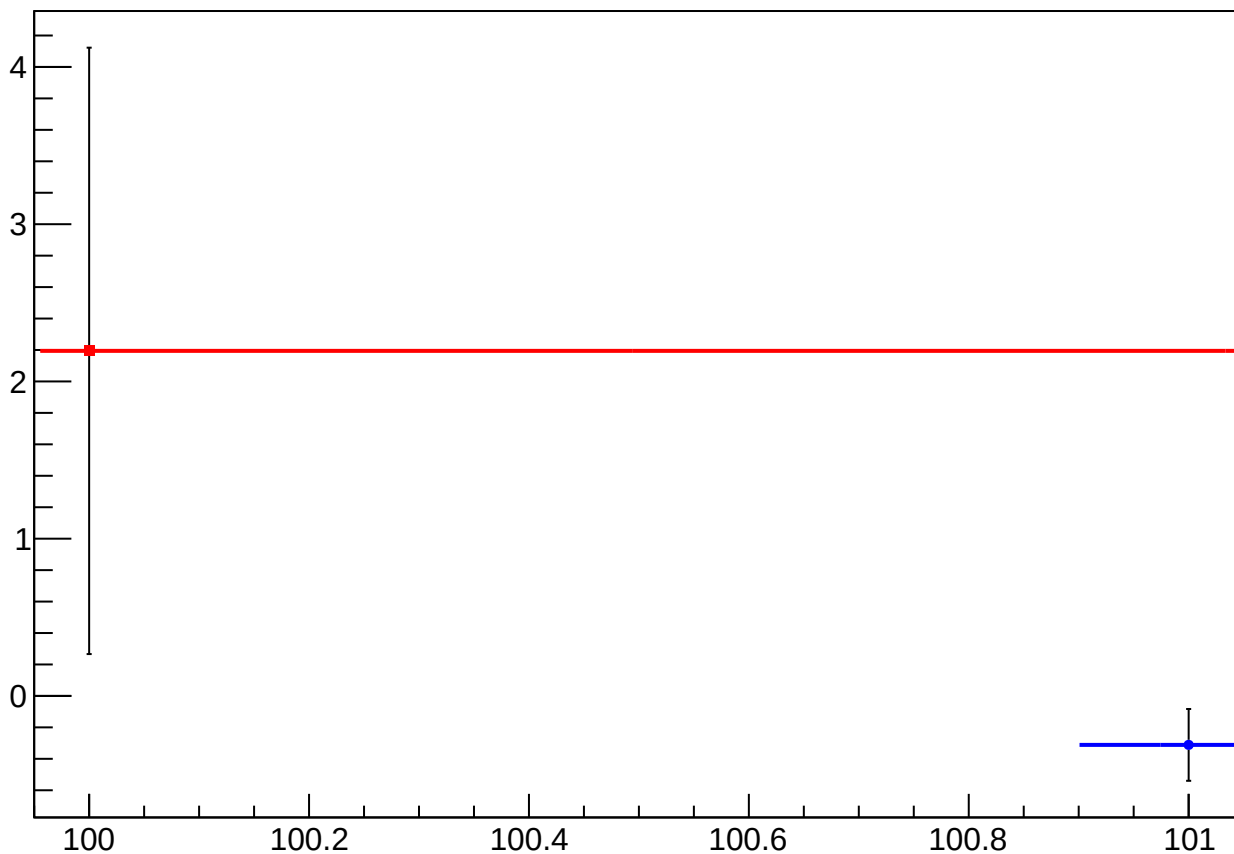
Right: 182.634 $\pm$ 0.160  $\chi^2$ /NDF: 58558.8/1

In: 178.039 $\pm$ 0.161  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 182.634 $\pm$ 0.160  $\chi^2$ /NDF: 58558.8/1

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.311+/-0.228  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.194+/-1.928  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

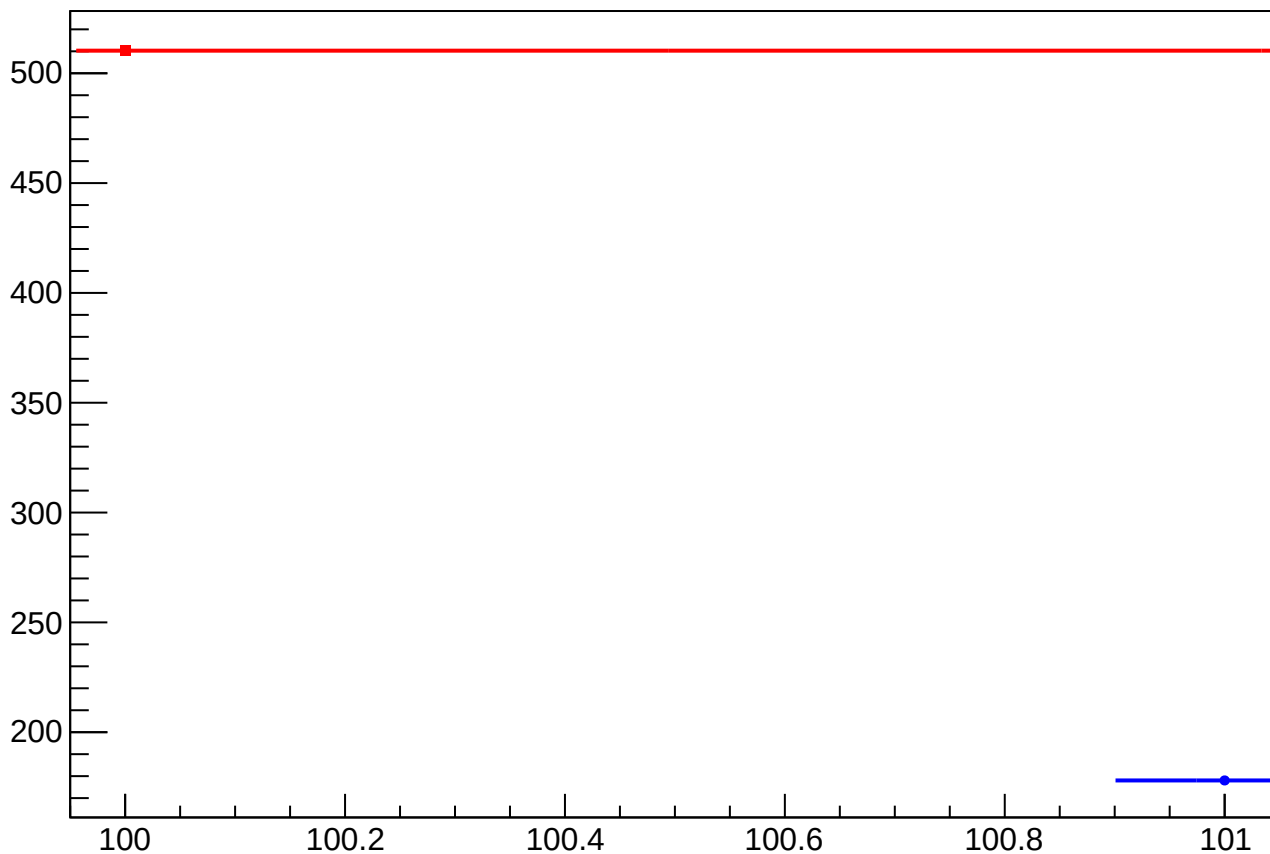
Right: -0.277+/-0.227  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.311+/-0.228  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.277+/-0.227  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usl\_atl2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 178.039+/-0.161  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 510.291+/-1.363  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

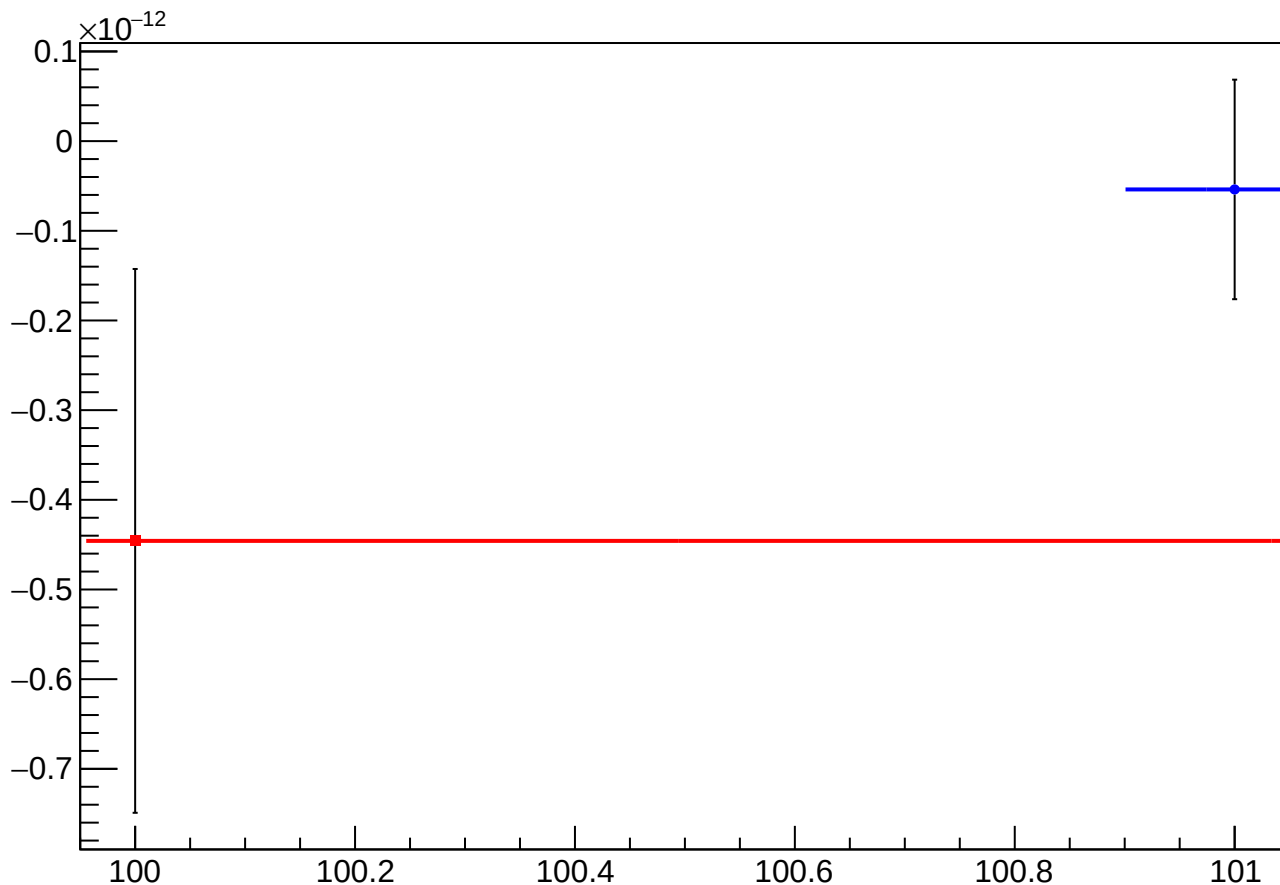
Right: 182.634+/-0.160  $\chi^2/\text{NDF}$ : 58558.8/1

In: 178.039+/-0.161  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 182.634+/-0.160  $\chi^2/\text{NDF}$ : 58558.8/1

asym\_usl\_atl2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

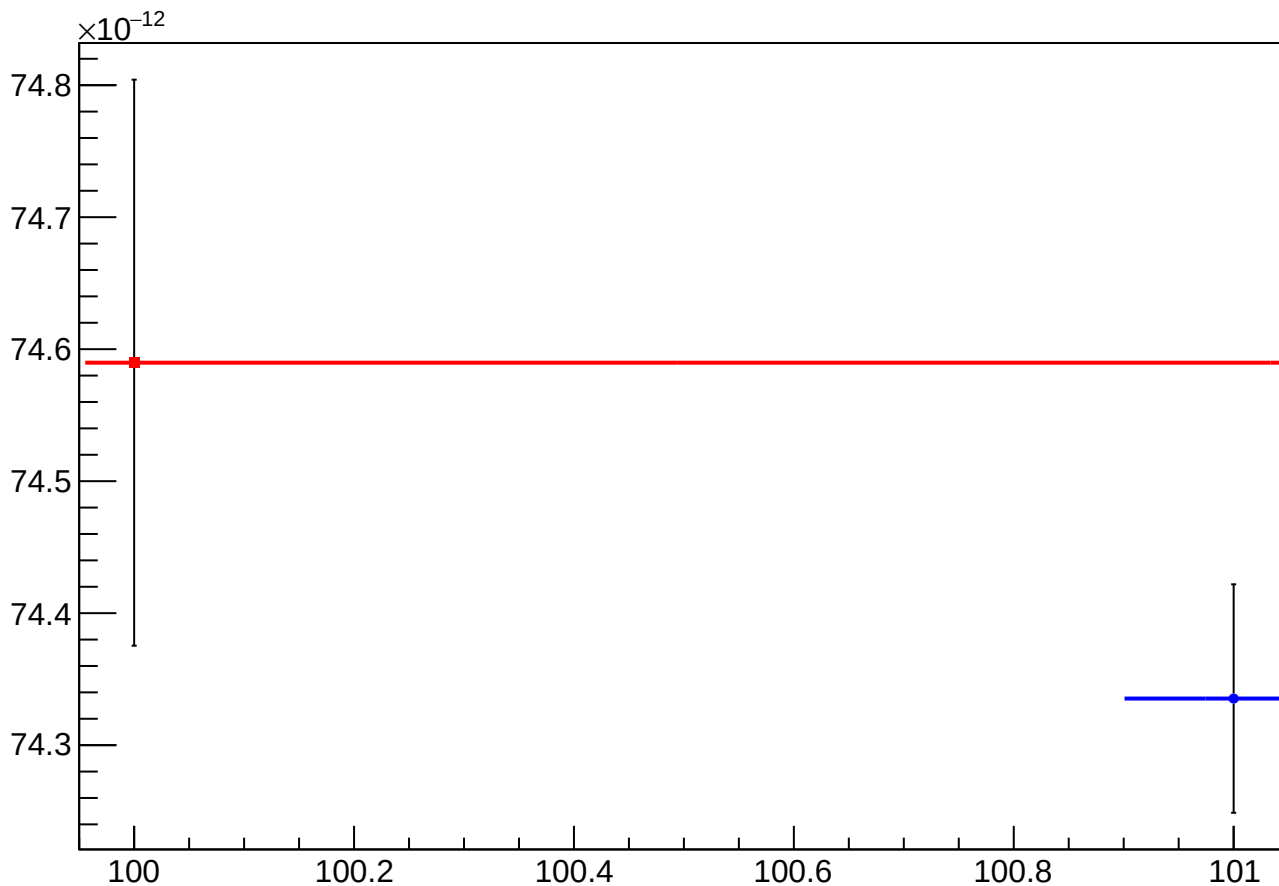
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/1

asym\_usl\_atl2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.000+/-0.000  $\chi^2$ /NDF: 1.2/1

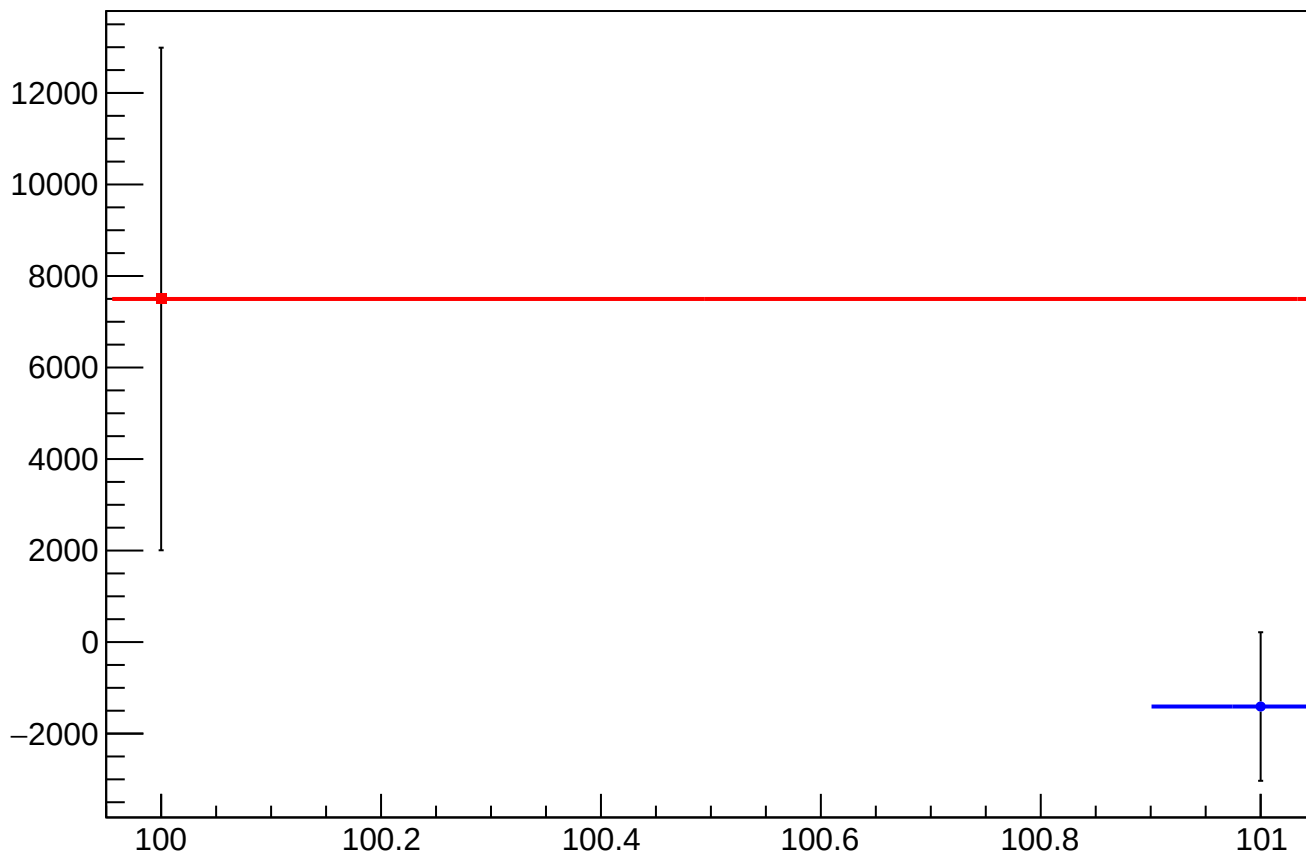
In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 1.2/1



reg\_asym\_usl\_atl2\_dd\_mean vs Slug, Sign Corrected



Right In: -1408.292+/-1623.290  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7497.986+/-5491.816  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

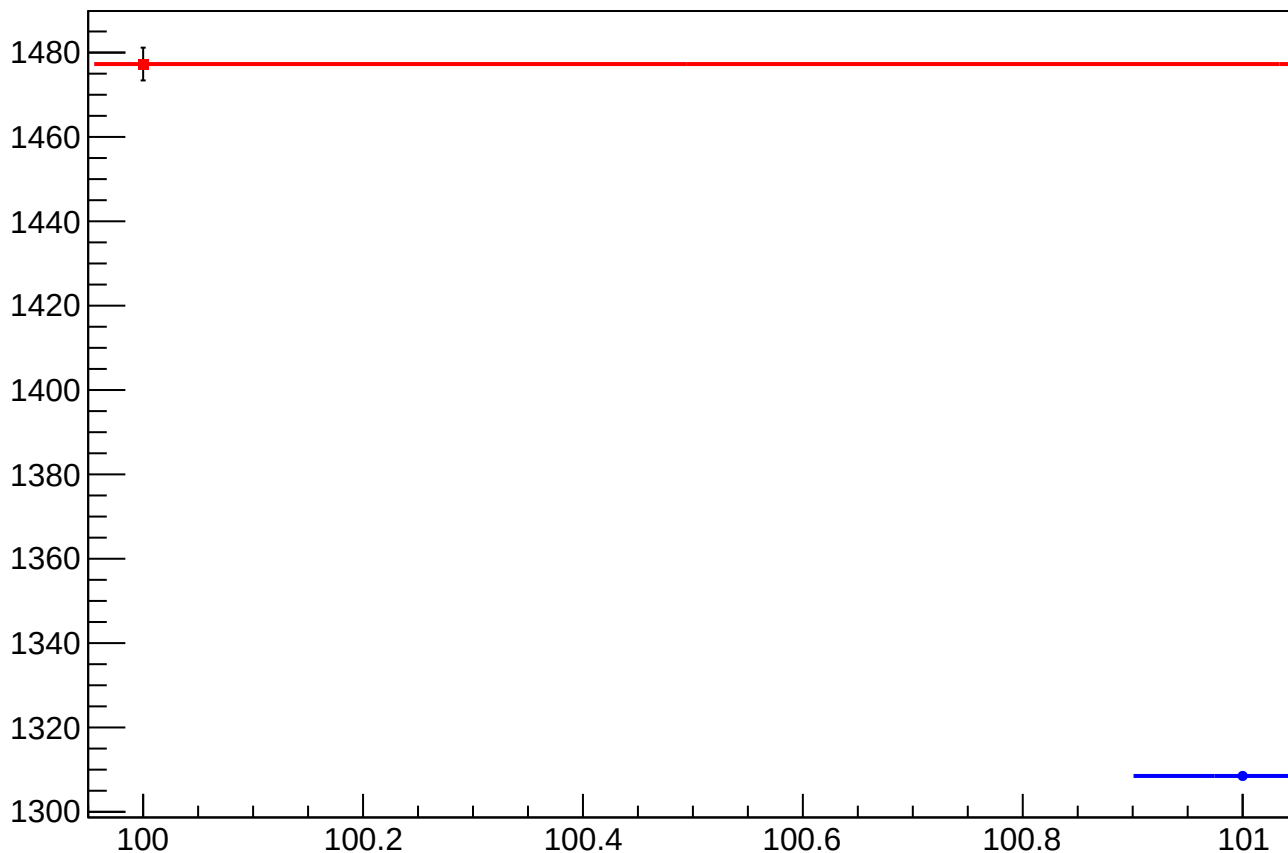
Right: -692.678+/-1556.709  $\chi^2/\text{NDF}$ : 2.4/1

In: -1408.292+/-1623.290  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -692.678+/-1556.709  $\chi^2/\text{NDF}$ : 2.4/1

# reg\_asym\_usl\_atl2\_dd\_rms vs Slug, Sign Corrected



Right In: 1308.505 $\pm$ 1.148  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1477.278 $\pm$ 3.883  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

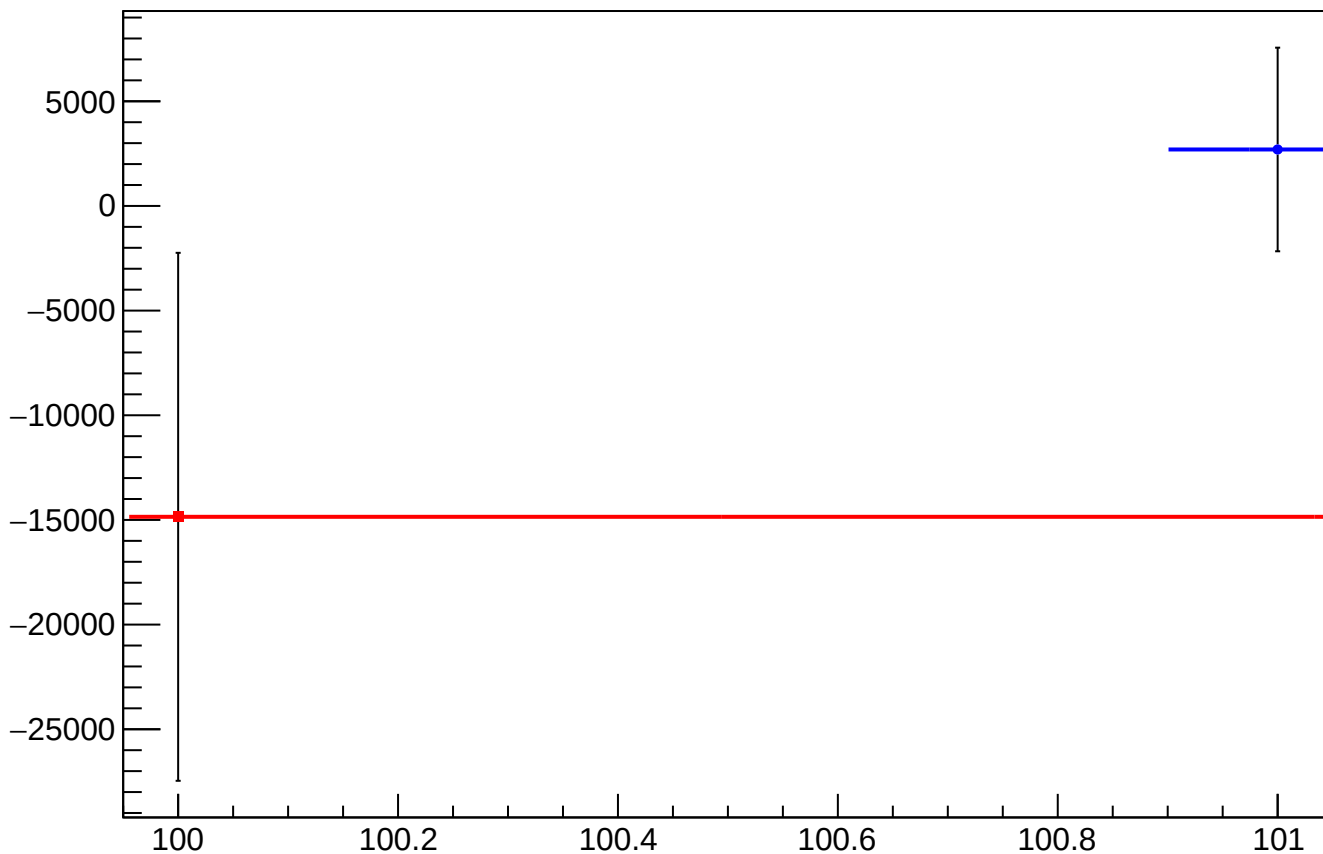
Right: 1322.066 $\pm$ 1.101  $\chi^2/\text{NDF}$ : 1737.1/1

In: 1308.505 $\pm$ 1.148  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1322.066 $\pm$ 1.101  $\chi^2/\text{NDF}$ : 1737.1/1

asym\_usl\_atl2\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 2697.515+/-4863.483  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14851.177+/-12611.199  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

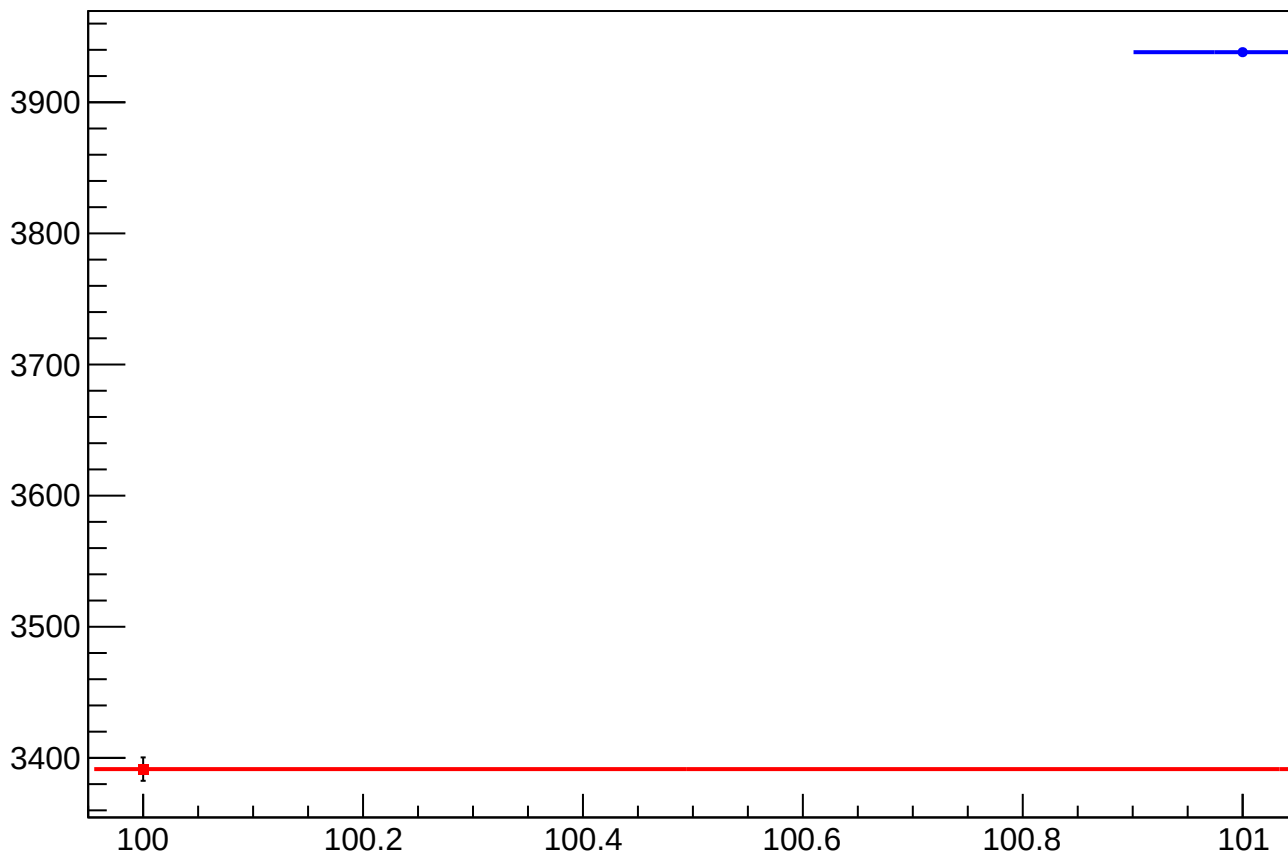
Right: 425.501+/-4537.739  $\chi^2/\text{NDF}$ : 1.7/1

In: 2697.515+/-4863.483  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 425.501+/-4537.739  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usl\_atl2\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 3938.205 $\pm$ 3.439  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3391.450 $\pm$ 8.917  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

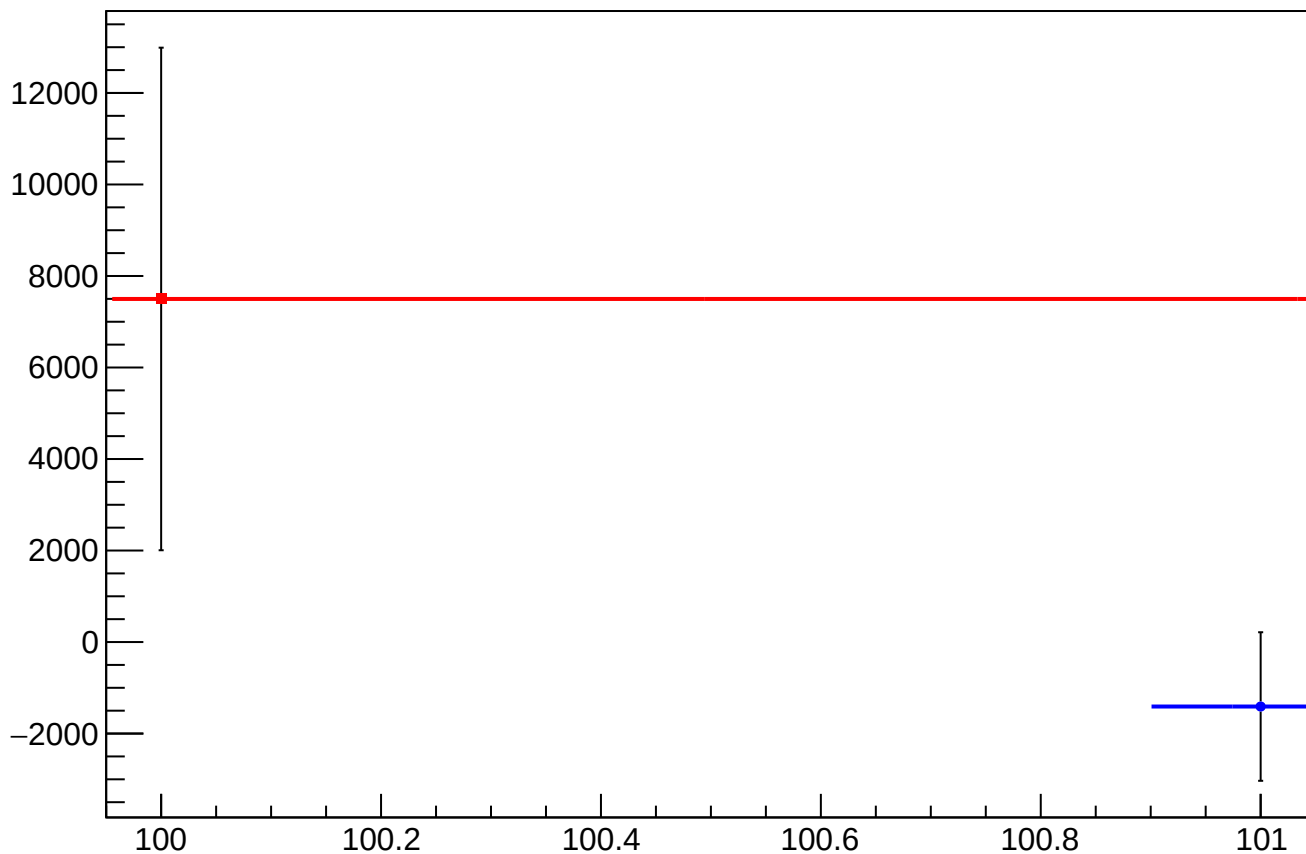
Right: 3867.417 $\pm$ 3.209  $\chi^2$ /NDF: 3272.6/1

In: 3938.205 $\pm$ 3.439  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3867.417 $\pm$ 3.209  $\chi^2$ /NDF: 3272.6/1

cor\_asym\_usl\_atl2\_dd\_mean vs Slug, Sign Corrected



Right In: -1409.128+/-1623.290  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7497.996+/-5491.816  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

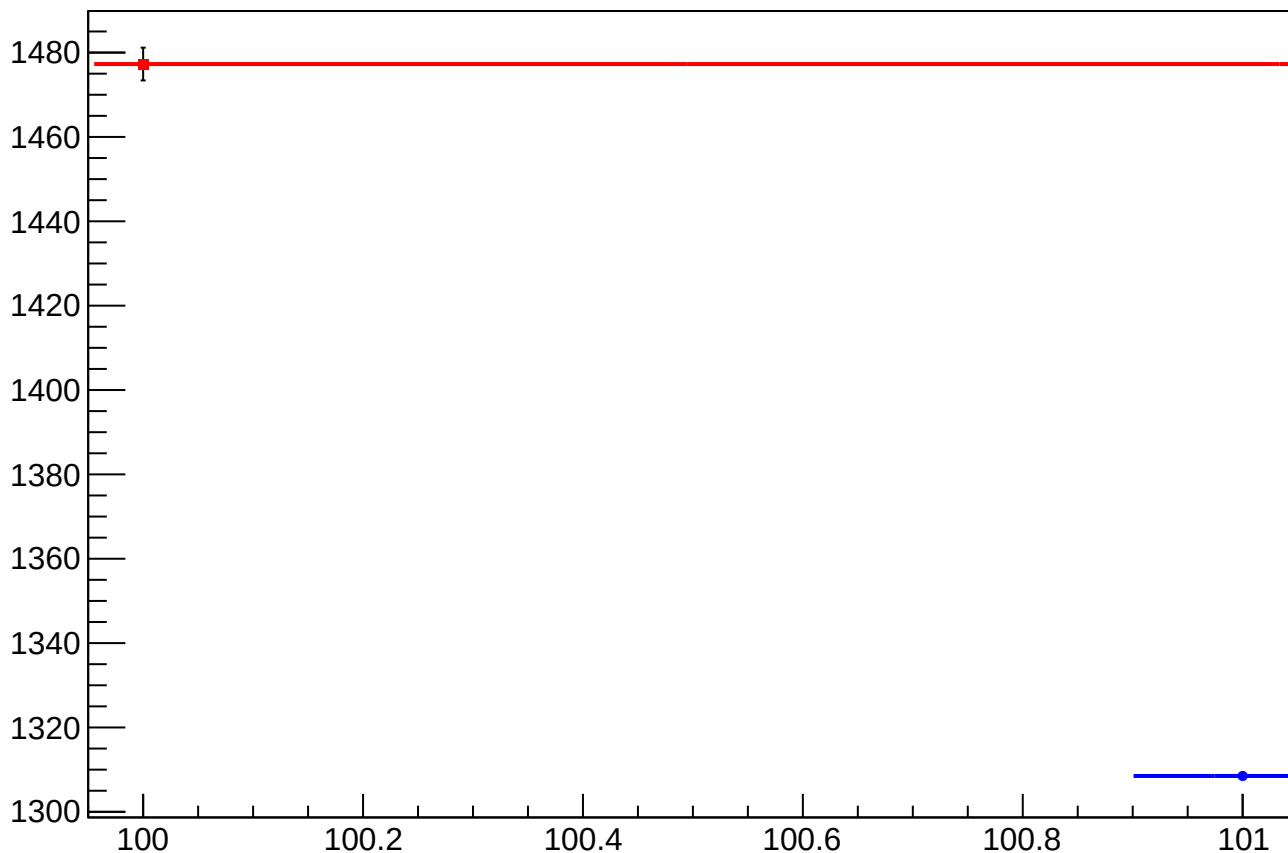
Right: -693.445+/-1556.709  $\chi^2/\text{NDF}$ : 2.4/1

In: -1409.128+/-1623.290  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -693.445+/-1556.709  $\chi^2/\text{NDF}$ : 2.4/1

# cor\_asym\_usl\_atl2\_dd\_rms vs Slug, Sign Corrected



Right In: 1308.504+/-1.148  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1477.278+/-3.883  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

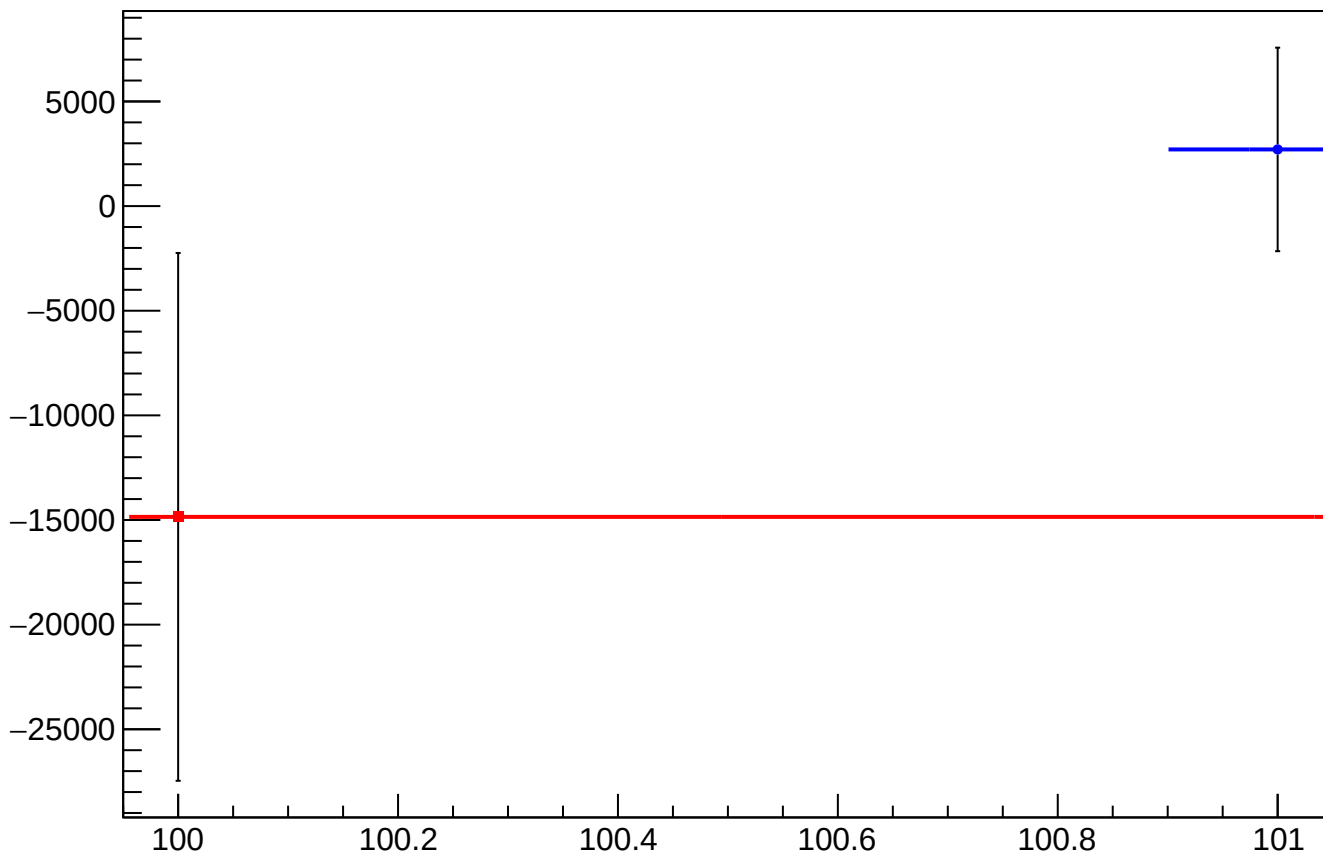
Right: 1322.065+/-1.101  $\chi^2/\text{NDF}$ : 1737.1/1

In: 1308.504+/-1.148  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1322.065+/-1.101  $\chi^2/\text{NDF}$ : 1737.1/1

asym\_usl\_atl2\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2708.007+/-4862.302  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14851.169+/-12611.199  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

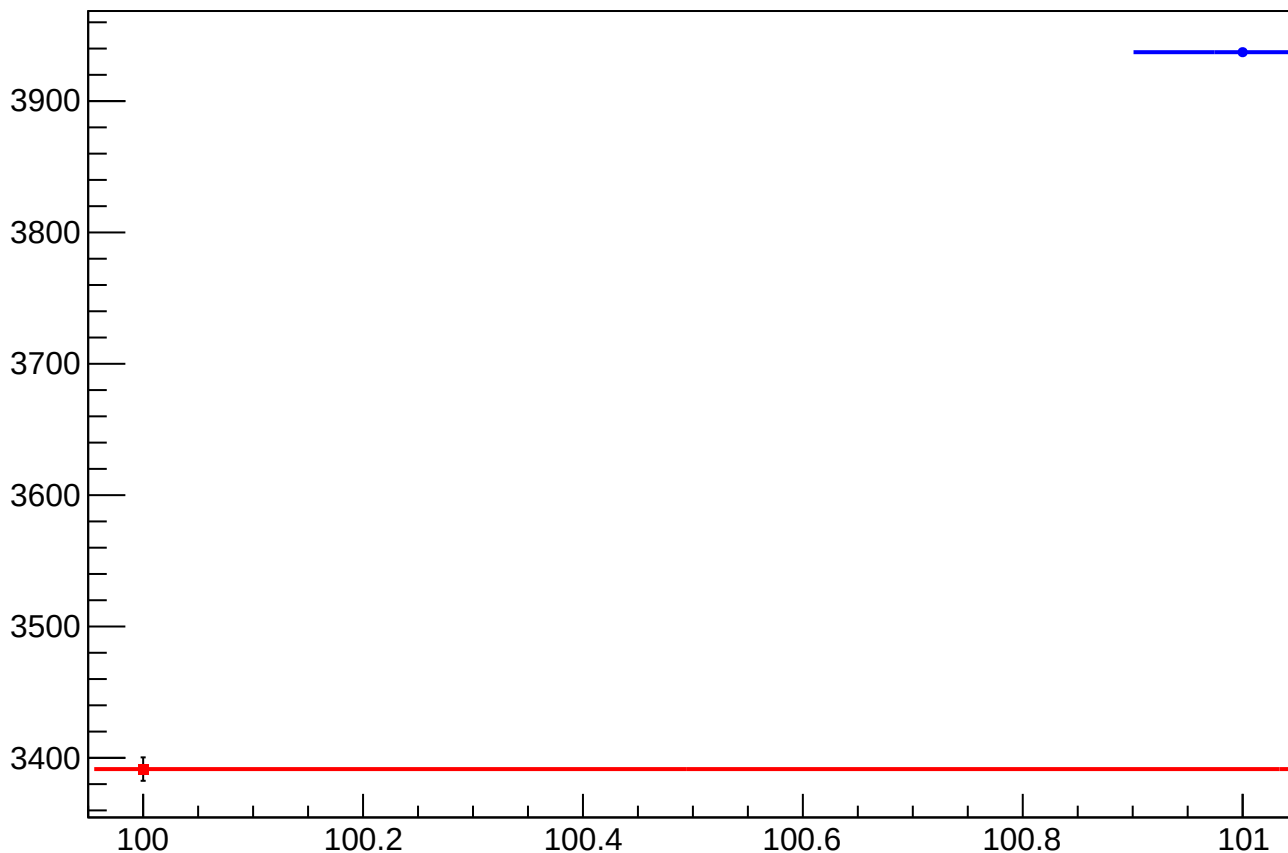
Right: 435.597+/-4536.779  $\chi^2/\text{NDF}$ : 1.7/1

In: 2708.007+/-4862.302  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 435.597+/-4536.779  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usl\_atl2\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 3937.239 $\pm$ 3.438  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3391.450 $\pm$ 8.917  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 3866.606 $\pm$ 3.208  $\chi^2$ /NDF: 3261.2/1

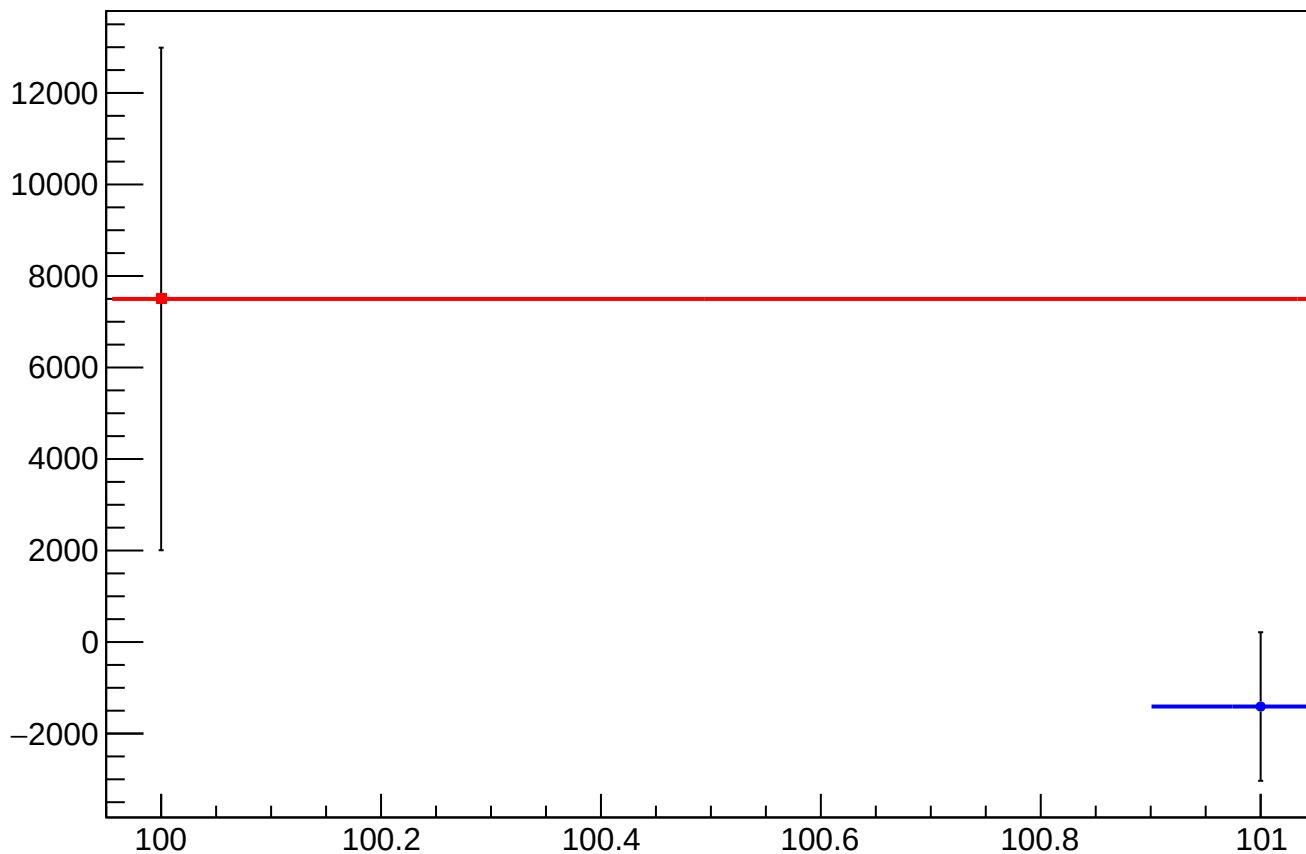
In: 3937.239 $\pm$ 3.438  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3866.606 $\pm$ 3.208  $\chi^2$ /NDF: 3261.2/1



eigen\_cor\_asym\_usl\_atl2\_dd\_mean vs Slug, Sign Corrected



Right In: -1409.128+/-1623.290  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7497.996+/-5491.816  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

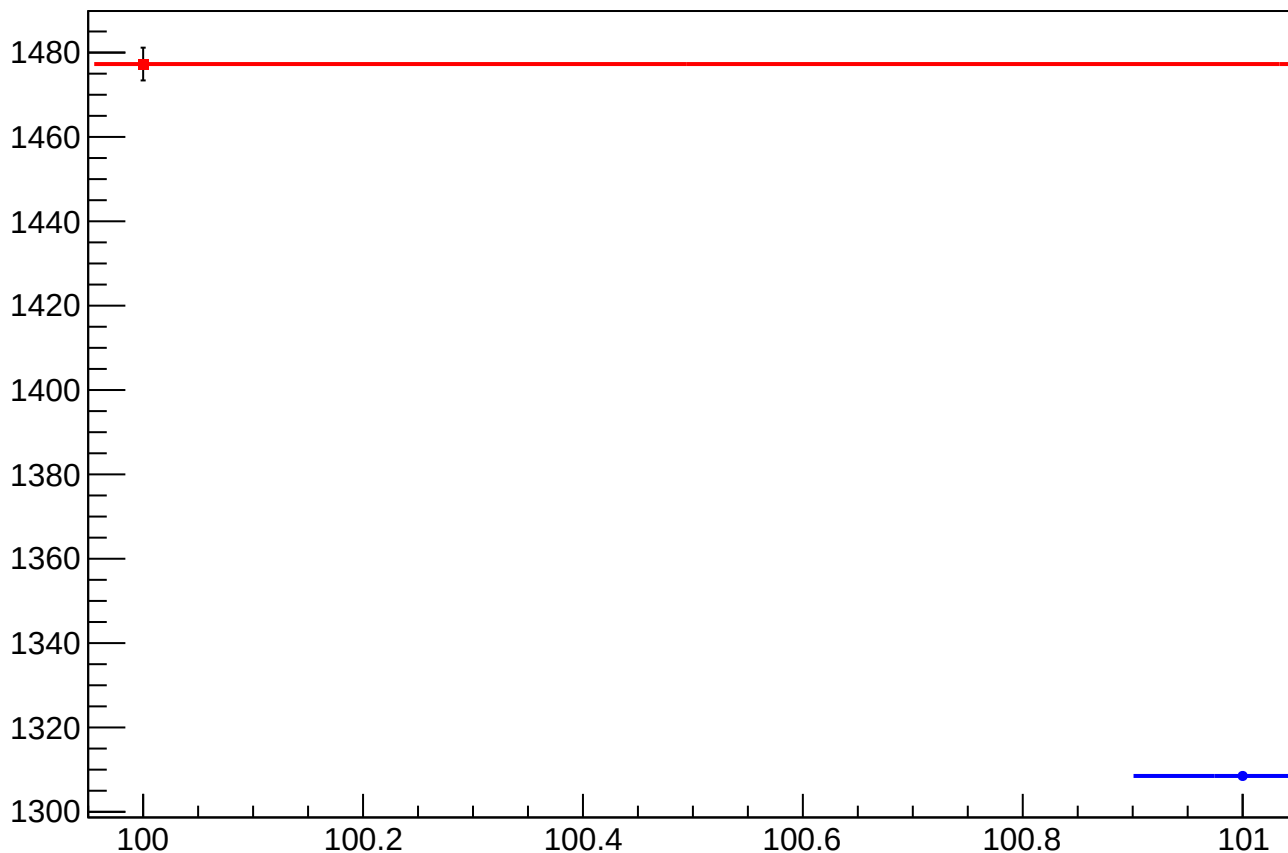
Right: -693.445+/-1556.709  $\chi^2/\text{NDF}$ : 2.4/1

In: -1409.128+/-1623.290  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -693.445+/-1556.709  $\chi^2/\text{NDF}$ : 2.4/1

eigen\_cor\_asym\_usl\_atl2\_dd\_rms vs Slug, Sign Corrected



Right In: 1308.504+/-1.148  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1477.278+/-3.883  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

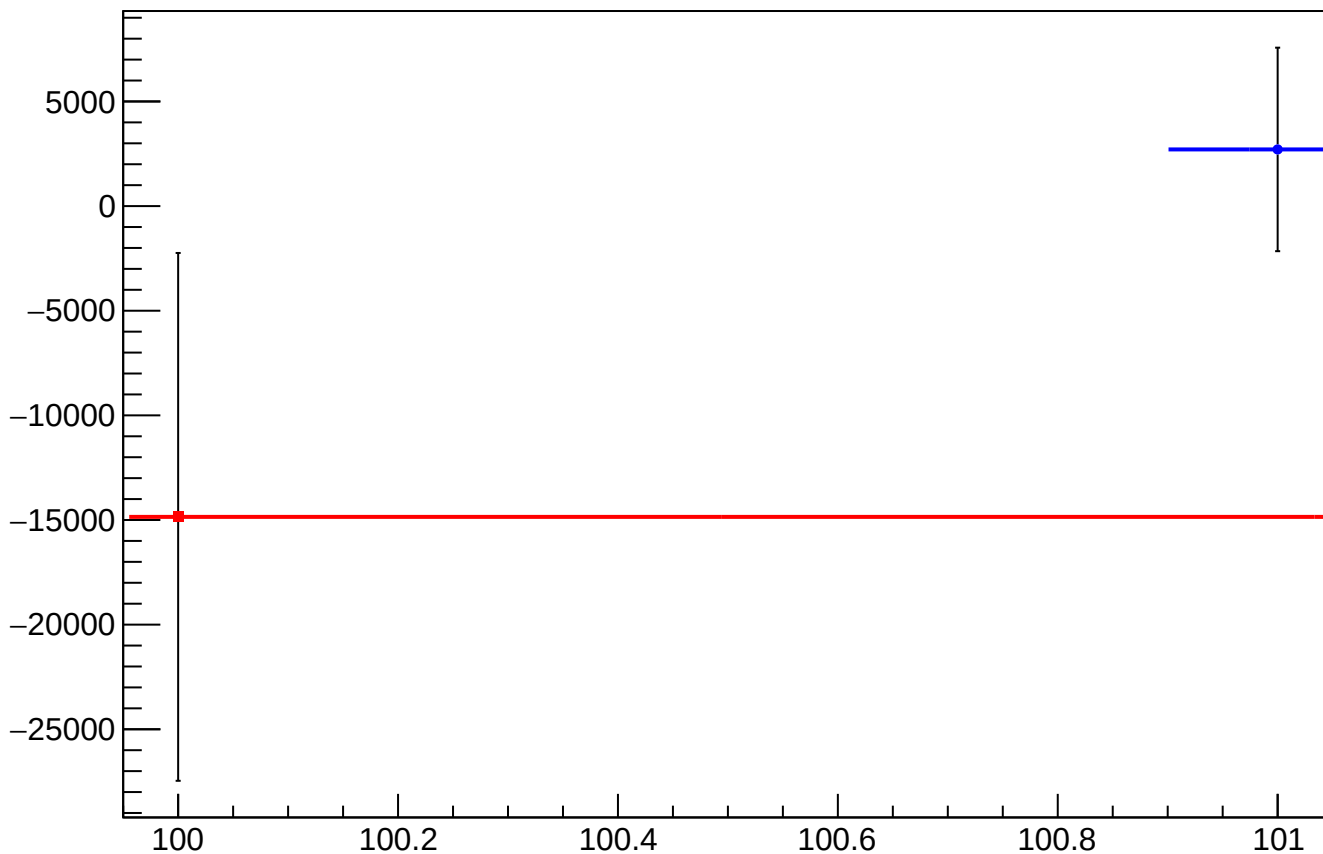
Right: 1322.065+/-1.101  $\chi^2/\text{NDF}$ : 1737.1/1

In: 1308.504+/-1.148  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1322.065+/-1.101  $\chi^2/\text{NDF}$ : 1737.1/1

asym\_usl\_atl2\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2708.007+/-4862.302  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14851.169+/-12611.199  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

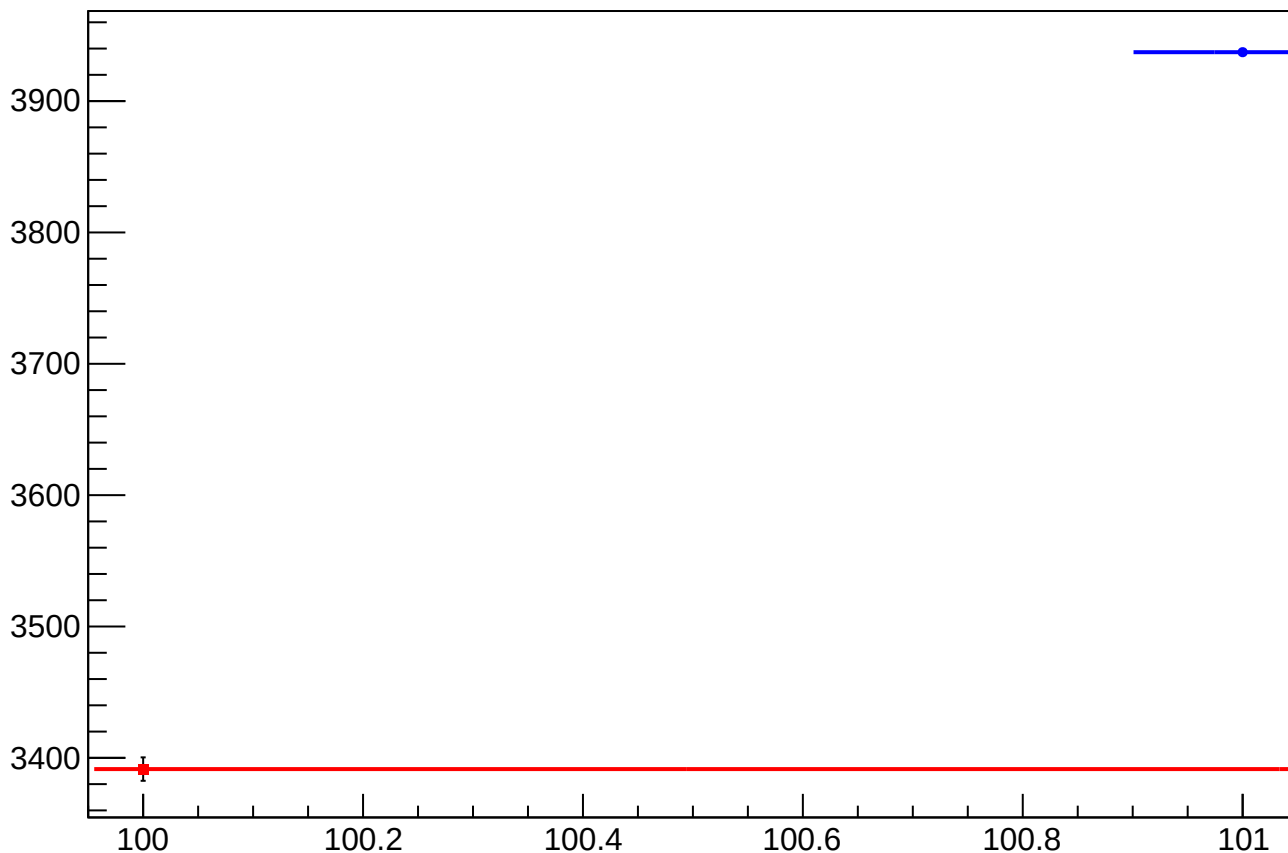
Right: 435.597+/-4536.779  $\chi^2/\text{NDF}$ : 1.7/1

In: 2708.007+/-4862.302  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 435.597+/-4536.779  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usl\_atl2\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 3937.239+/-3.438  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3391.450+/-8.917  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

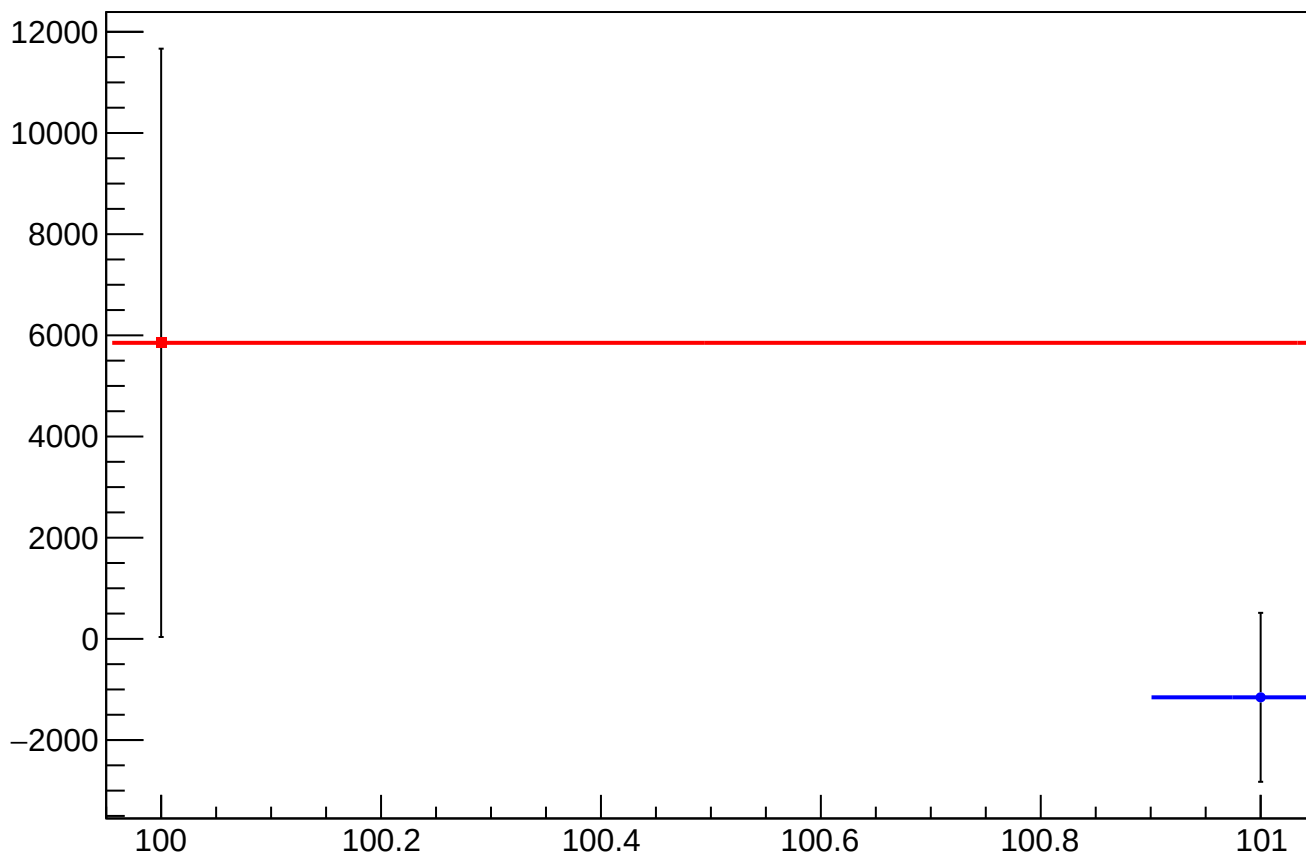
Right: 3866.606+/-3.208  $\chi^2/\text{NDF}$ : 3261.2/1

In: 3937.239+/-3.438  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3866.606+/-3.208  $\chi^2/\text{NDF}$ : 3261.2/1

dit\_asym\_usl\_atl2\_dd\_mean vs Slug, Sign Corrected



Right In: -1155.440+/-1669.953  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5852.021+/-5814.974  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

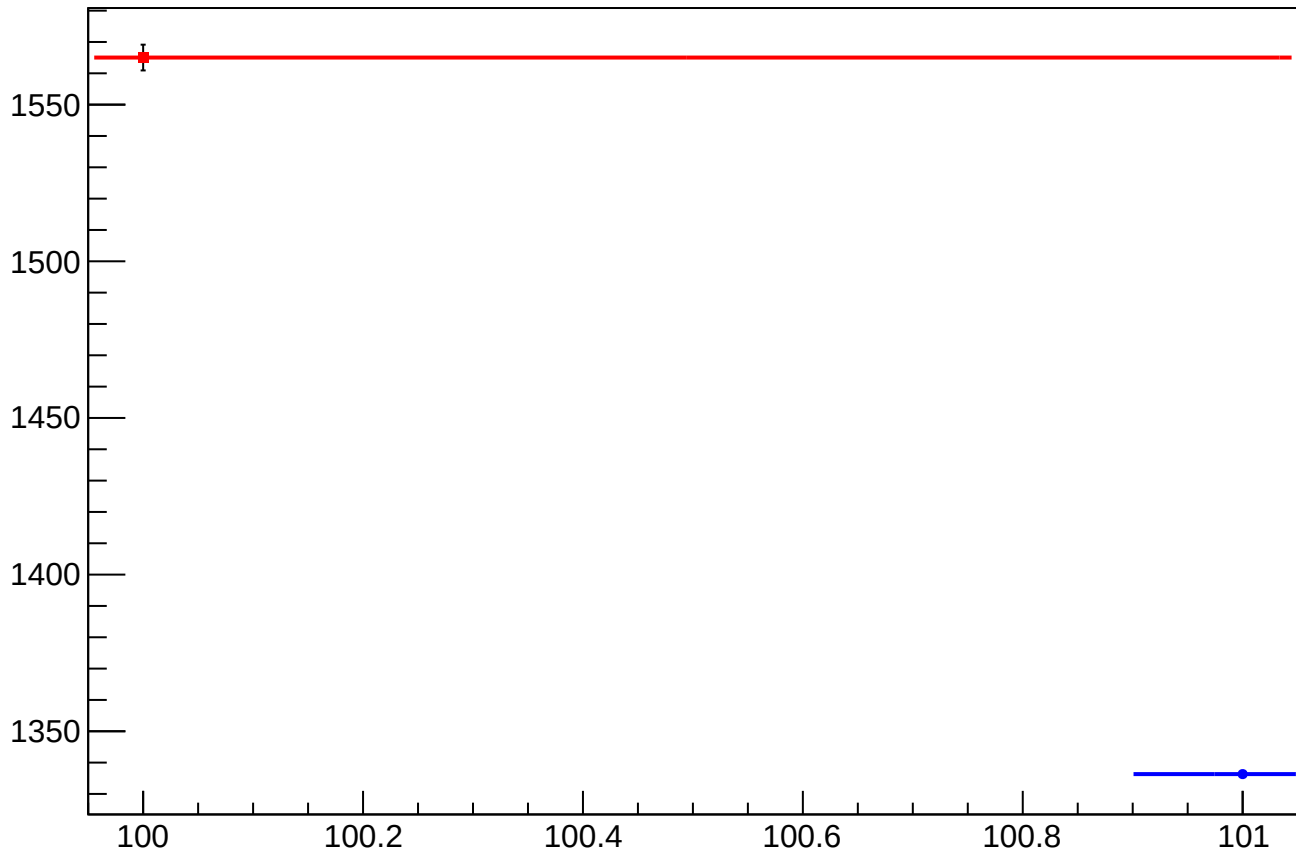
Right: -621.544+/-1605.077  $\chi^2/\text{NDF}$ : 1.3/1

In: -1155.440+/-1669.953  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -621.544+/-1605.077  $\chi^2/\text{NDF}$ : 1.3/1

dit\_asym\_usl\_atl2\_dd\_rms vs Slug, Sign Corrected



Right In: 1336.328 $\pm$ 1.181  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1565.029 $\pm$ 4.112  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

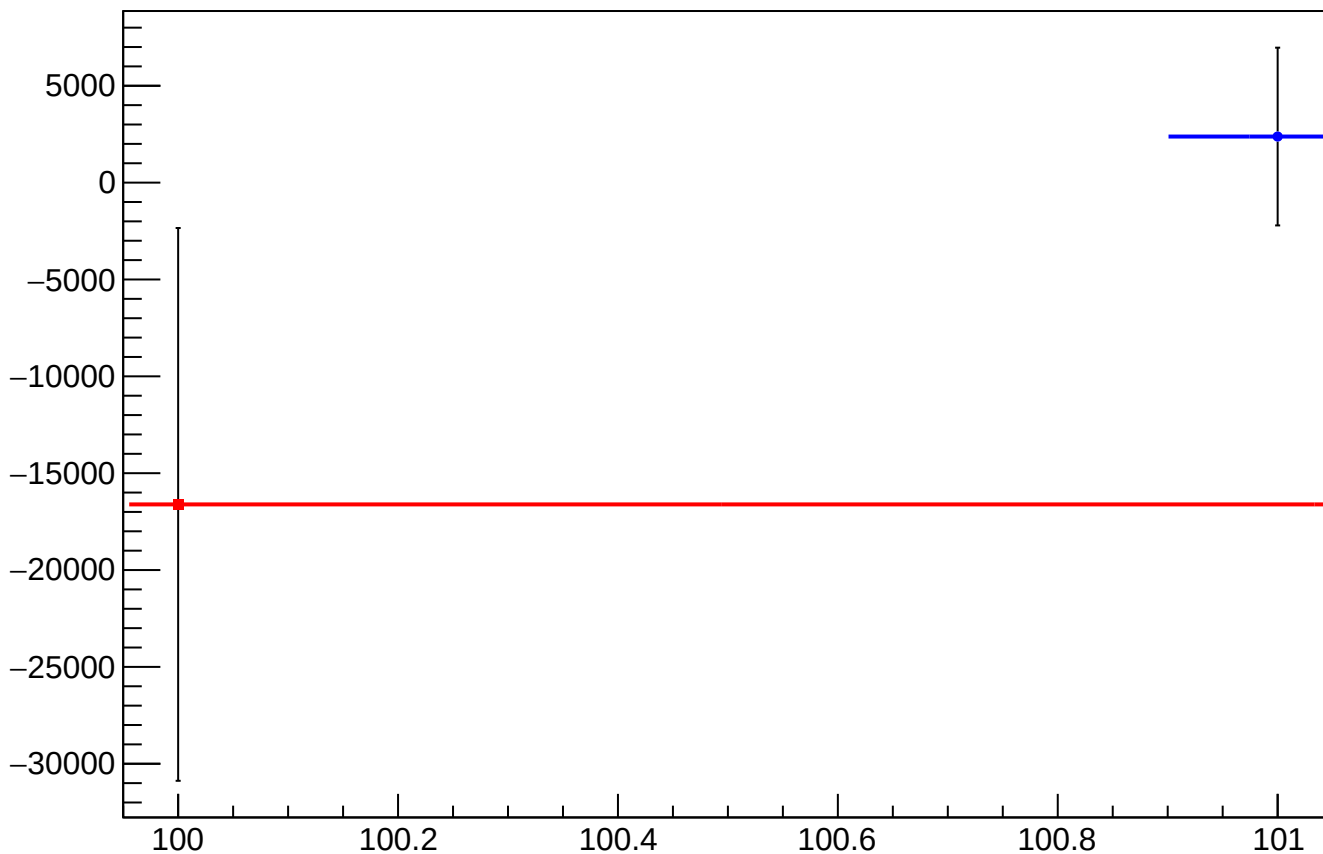
Right: 1353.753 $\pm$ 1.135  $\chi^2$ /NDF: 2857.9/1

In: 1336.328 $\pm$ 1.181  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1353.753 $\pm$ 1.135  $\chi^2$ /NDF: 2857.9/1

asym\_usl\_atl2\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2378.716+/-4588.094  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -16611.408+/-14268.513  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

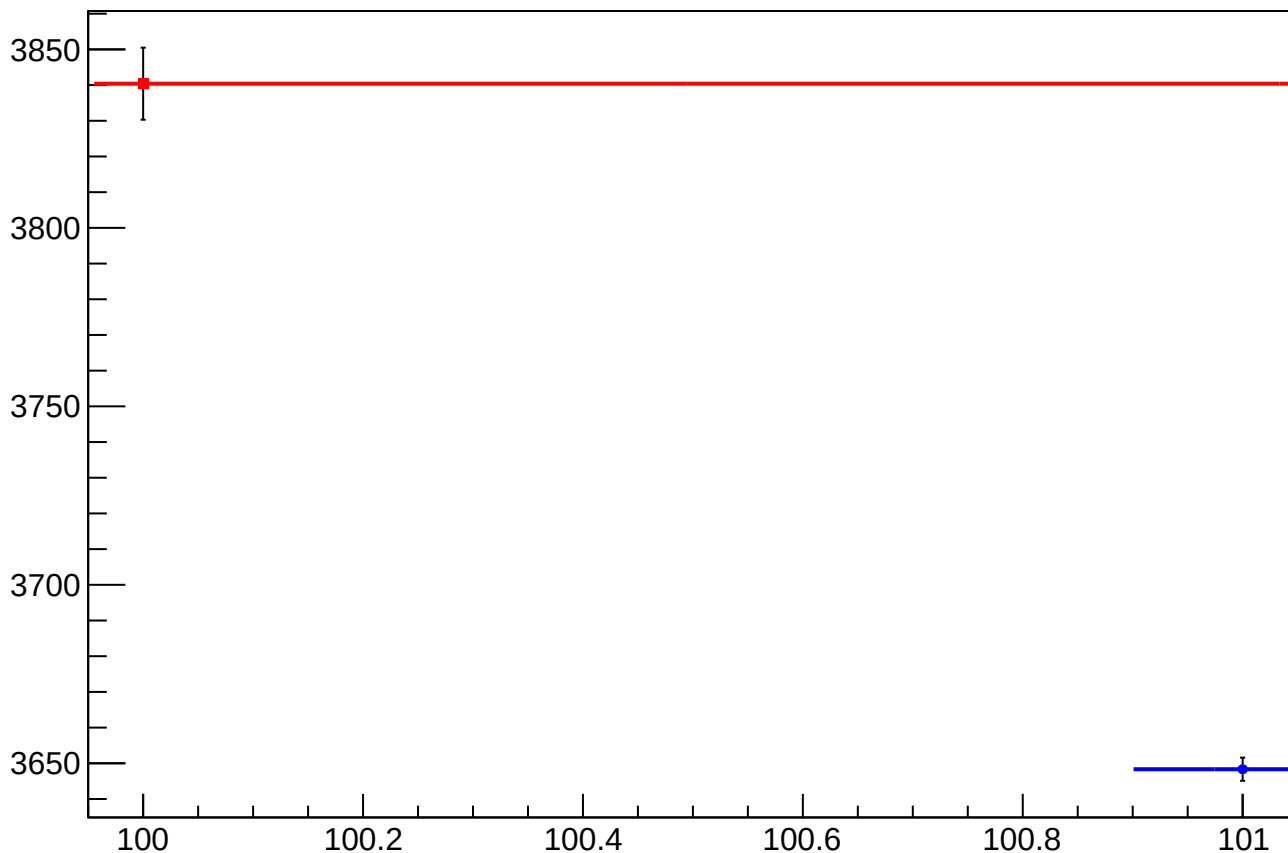
Right: 599.194+/-4367.838  $\chi^2/\text{NDF}$ : 1.6/1

In: 2378.716+/-4588.094  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 599.194+/-4367.838  $\chi^2/\text{NDF}$ : 1.6/1

asym\_usl\_atl2\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 3648.341+/-3.244  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3840.394+/-10.089  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 3666.337+/-3.089  $\chi^2/\text{NDF}$ : 328.4/1

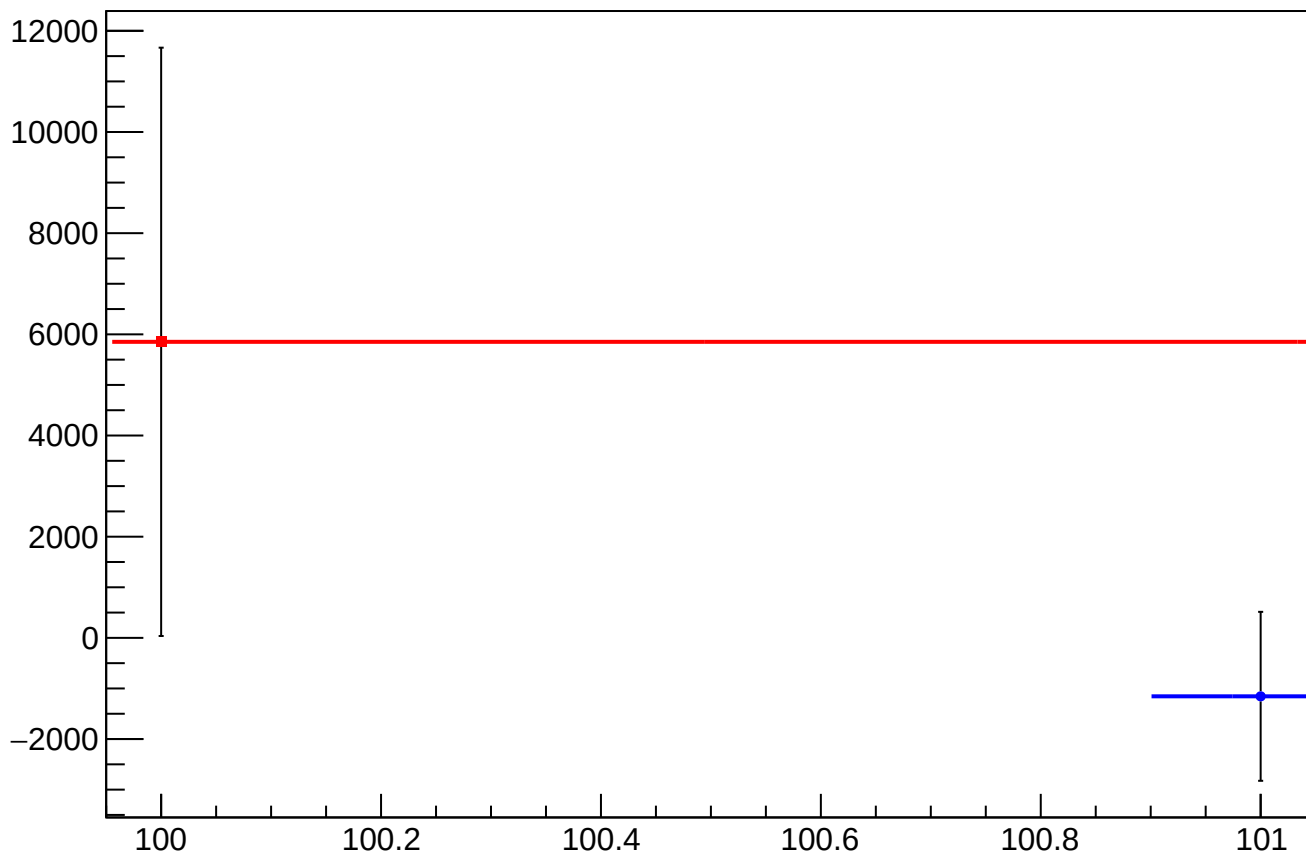
In: 3648.341+/-3.244  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3666.337+/-3.089  $\chi^2/\text{NDF}$ : 328.4/1



eigen\_dit\_asym\_usl\_atl2\_dd\_mean vs Slug, Sign Corrected



Right In: -1155.438+/-1669.953  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5852.023+/-5814.968  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

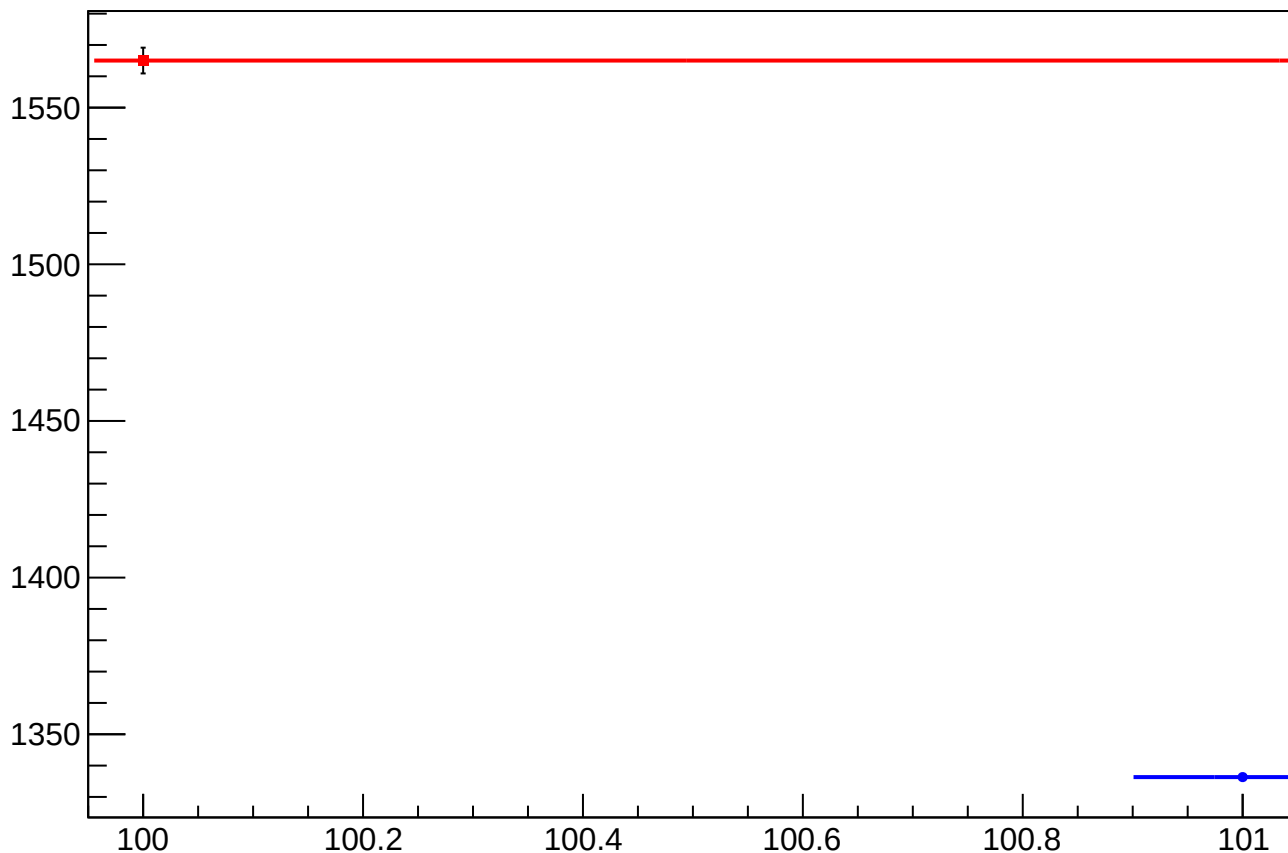
Right: -621.541+/-1605.076  $\chi^2/\text{NDF}$ : 1.3/1

In: -1155.438+/-1669.953  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -621.541+/-1605.076  $\chi^2/\text{NDF}$ : 1.3/1

eigen\_dit\_asym\_usl\_atl2\_dd\_rms vs Slug, Sign Corrected



Right In: 1336.328 $\pm$ 1.181  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1565.027 $\pm$ 4.112  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

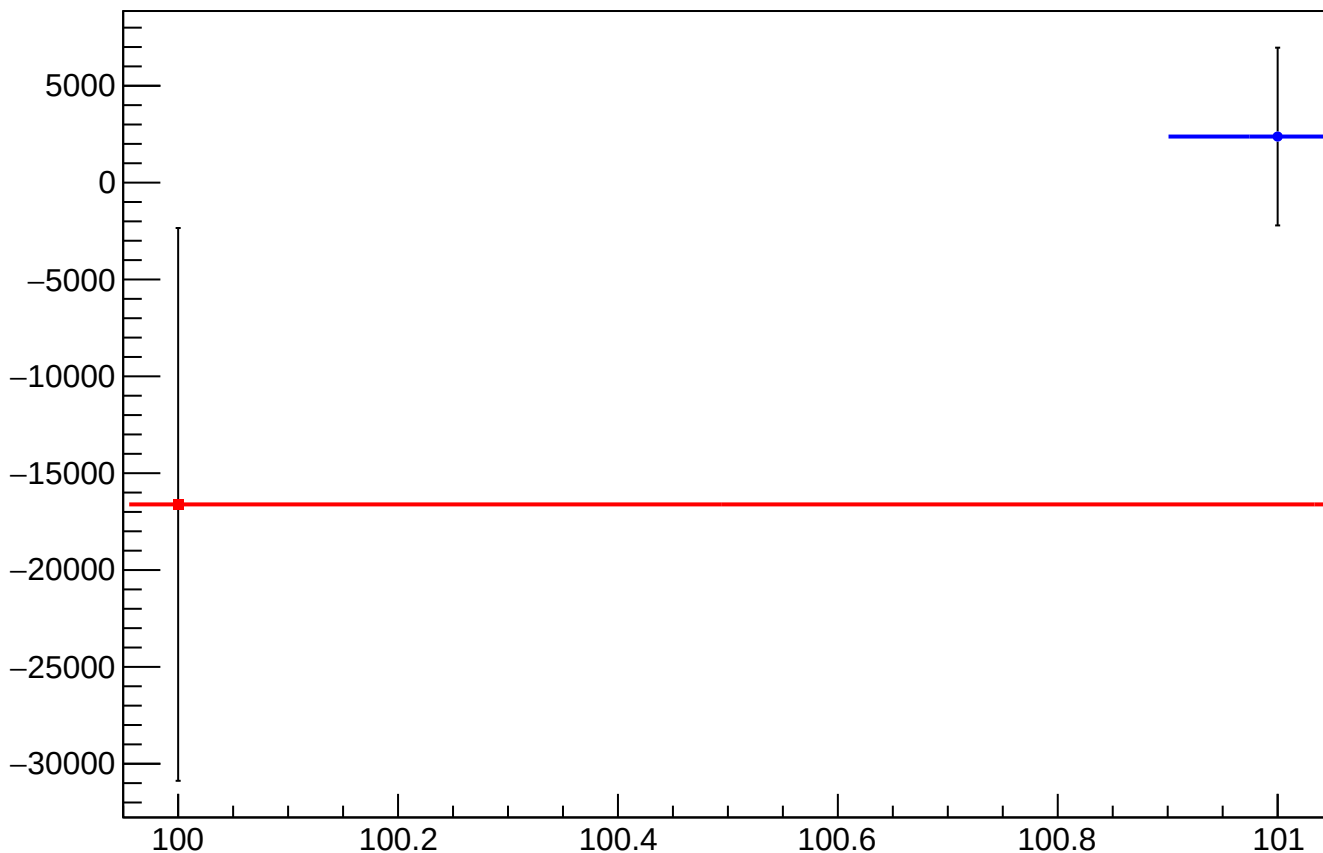
Right: 1353.752 $\pm$ 1.135  $\chi^2$ /NDF: 2857.9/1

In: 1336.328 $\pm$ 1.181  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1353.752 $\pm$ 1.135  $\chi^2$ /NDF: 2857.9/1

asym\_usl\_atl2\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 2378.716+/-4588.088  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -16611.400+/-14268.490  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

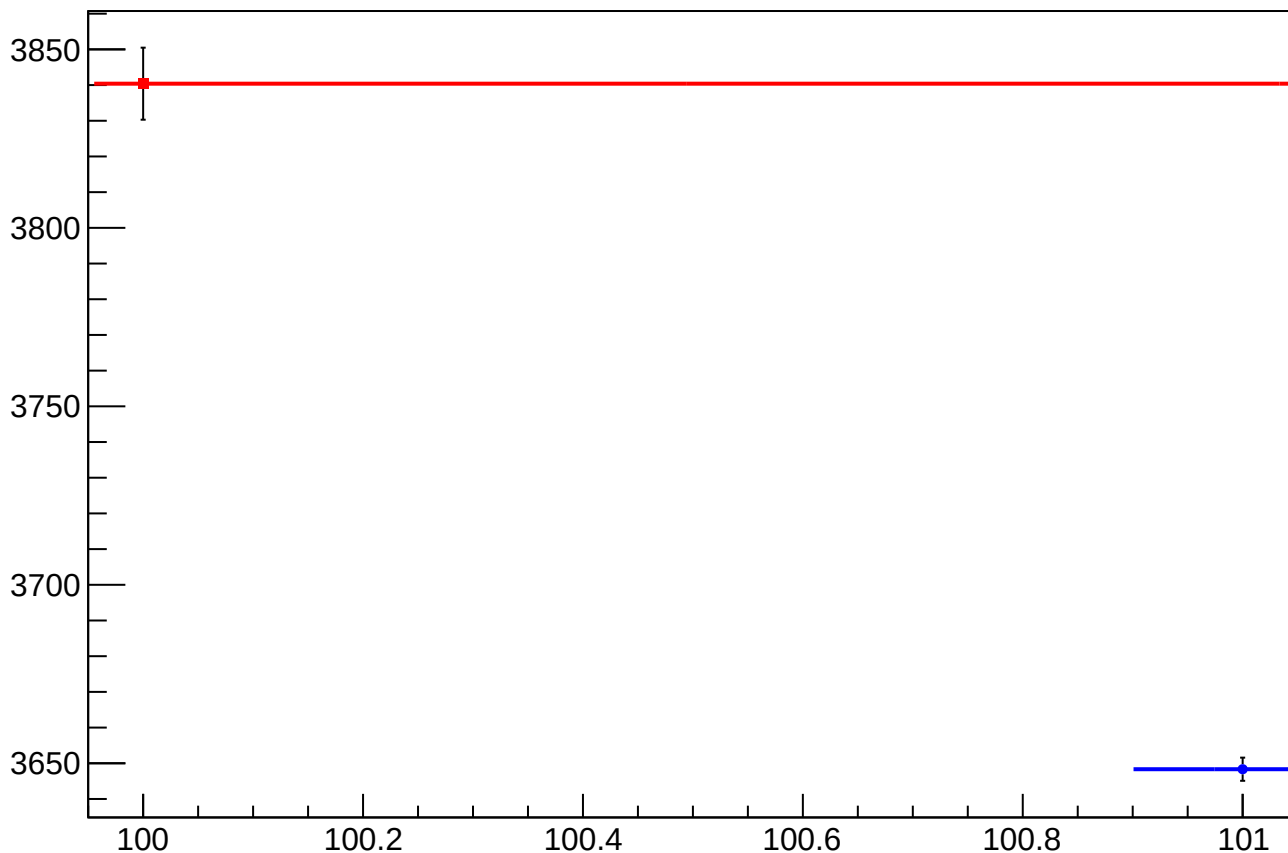
Right: 599.194+/-4367.832  $\chi^2/\text{NDF}$ : 1.6/1

In: 2378.716+/-4588.088  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 599.194+/-4367.832  $\chi^2/\text{NDF}$ : 1.6/1

asym\_usl\_atl2\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 3648.336+/-3.244  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3840.388+/-10.089  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

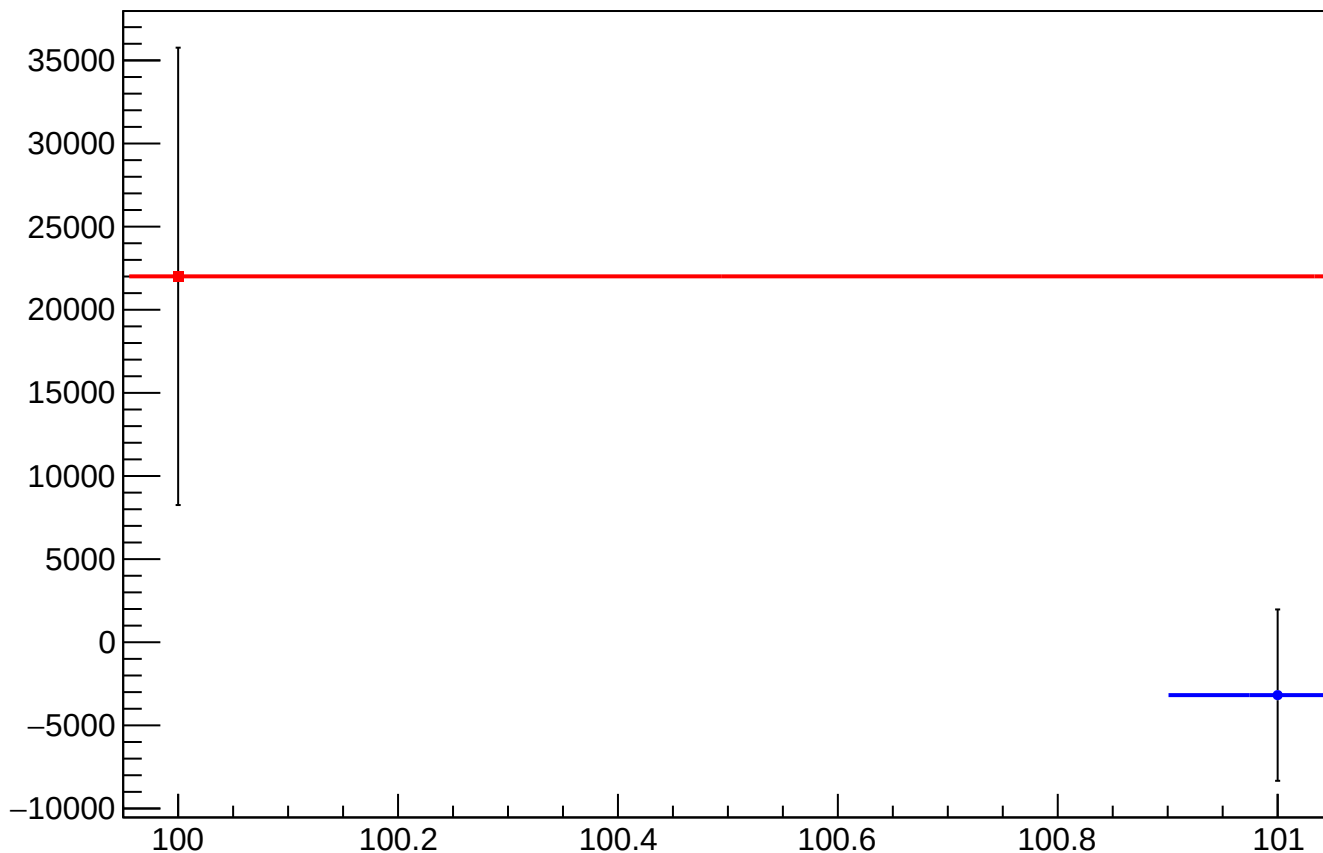
Right: 3666.333+/-3.089  $\chi^2/\text{NDF}$ : 328.4/1

In: 3648.336+/-3.244  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3666.333+/-3.089  $\chi^2/\text{NDF}$ : 328.4/1

# asym\_usl\_atl2\_dd\_mean vs Slug, Sign Corrected



Right In: -3180.354+/-5153.791  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22009.485+/-13755.808  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

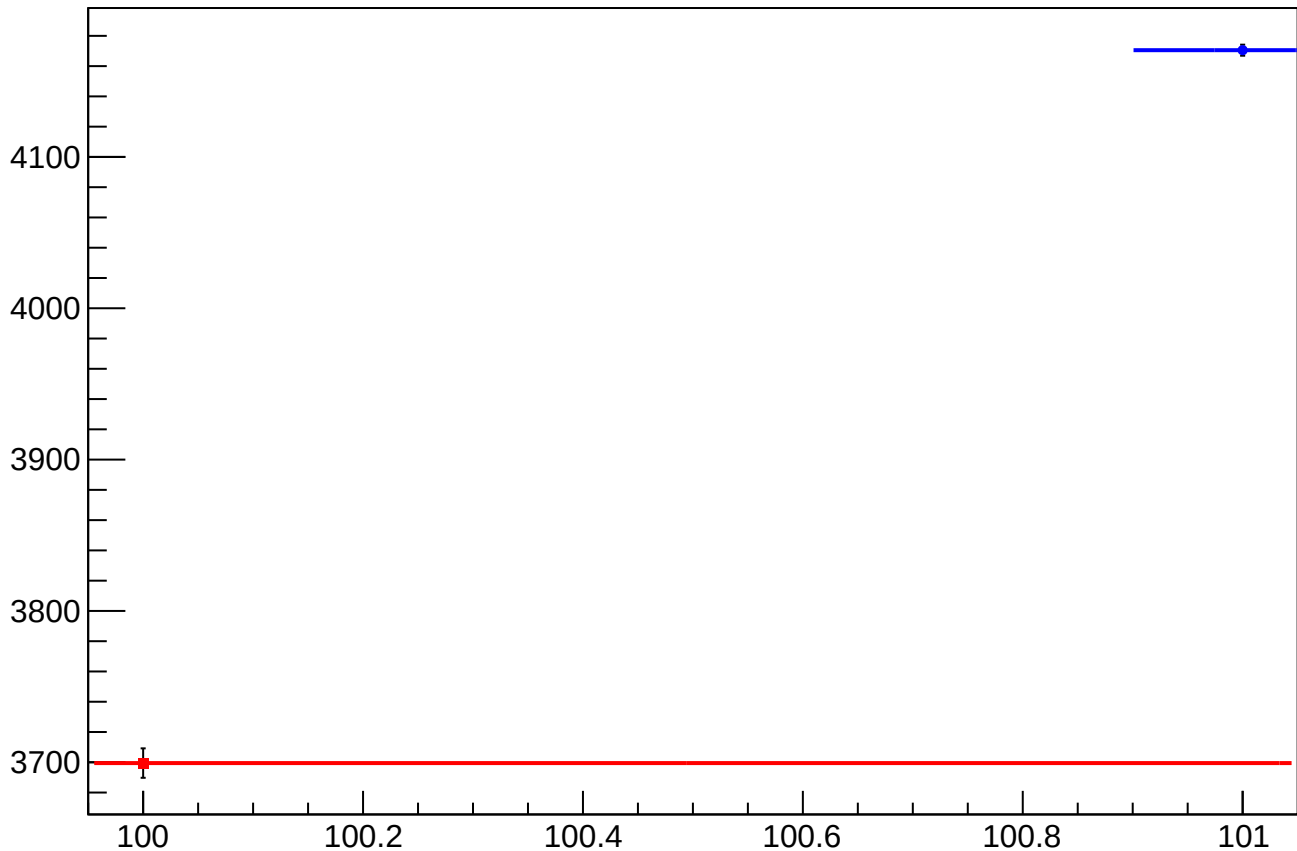
Right: -79.651+/-4826.180  $\chi^2/\text{NDF}$ : 2.9/1

In: -3180.354+/-5153.791  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -79.651+/-4826.180  $\chi^2/\text{NDF}$ : 2.9/1

# asym\_usl\_atl2\_dd\_rms vs Slug, Sign Corrected



Right In: 4170.530+/-3.644  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3699.469+/-9.727  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

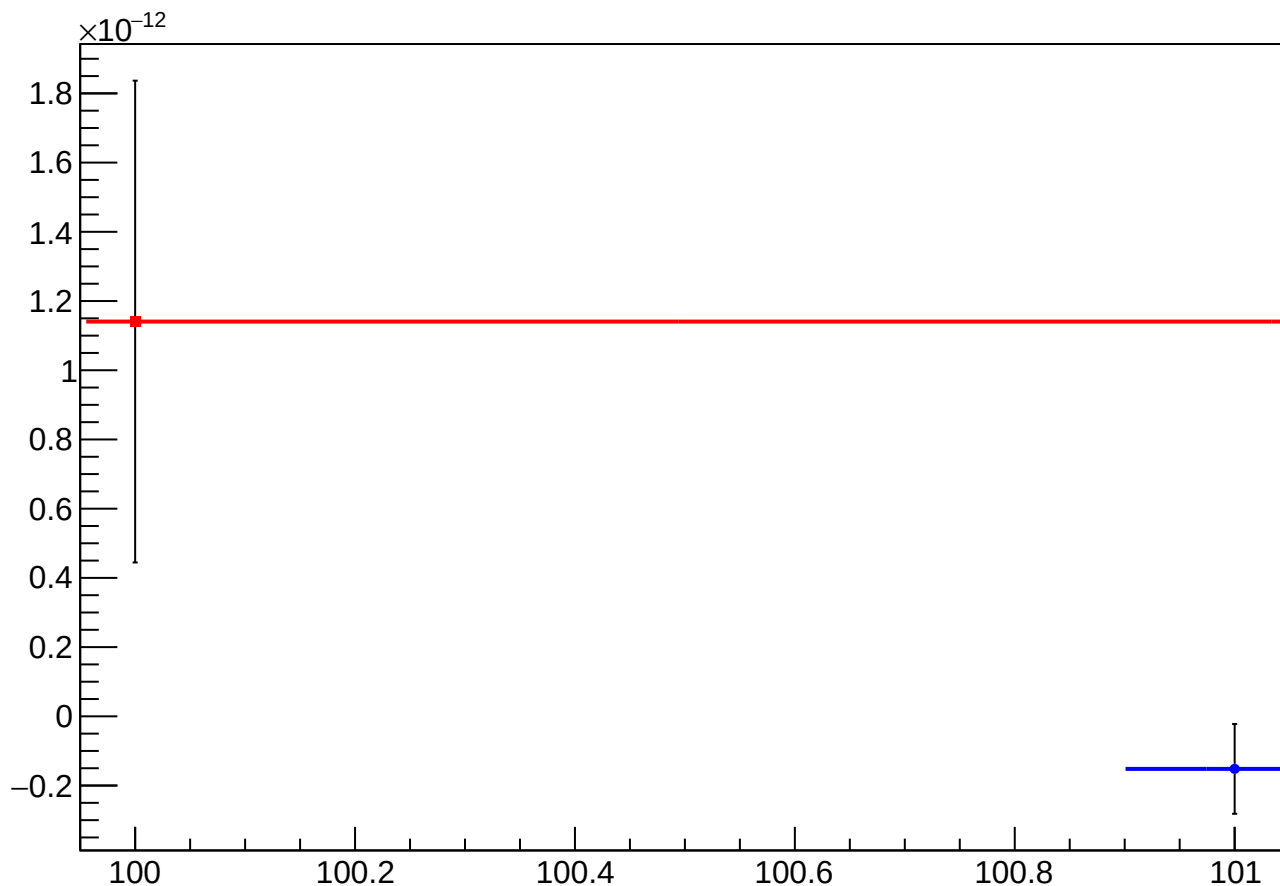
Right: 4112.546+/-3.413  $\chi^2/\text{NDF}$ : 2056.7/1

In: 4170.530+/-3.644  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4112.546+/-3.413  $\chi^2/\text{NDF}$ : 2056.7/1

asym\_usl\_atl2\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

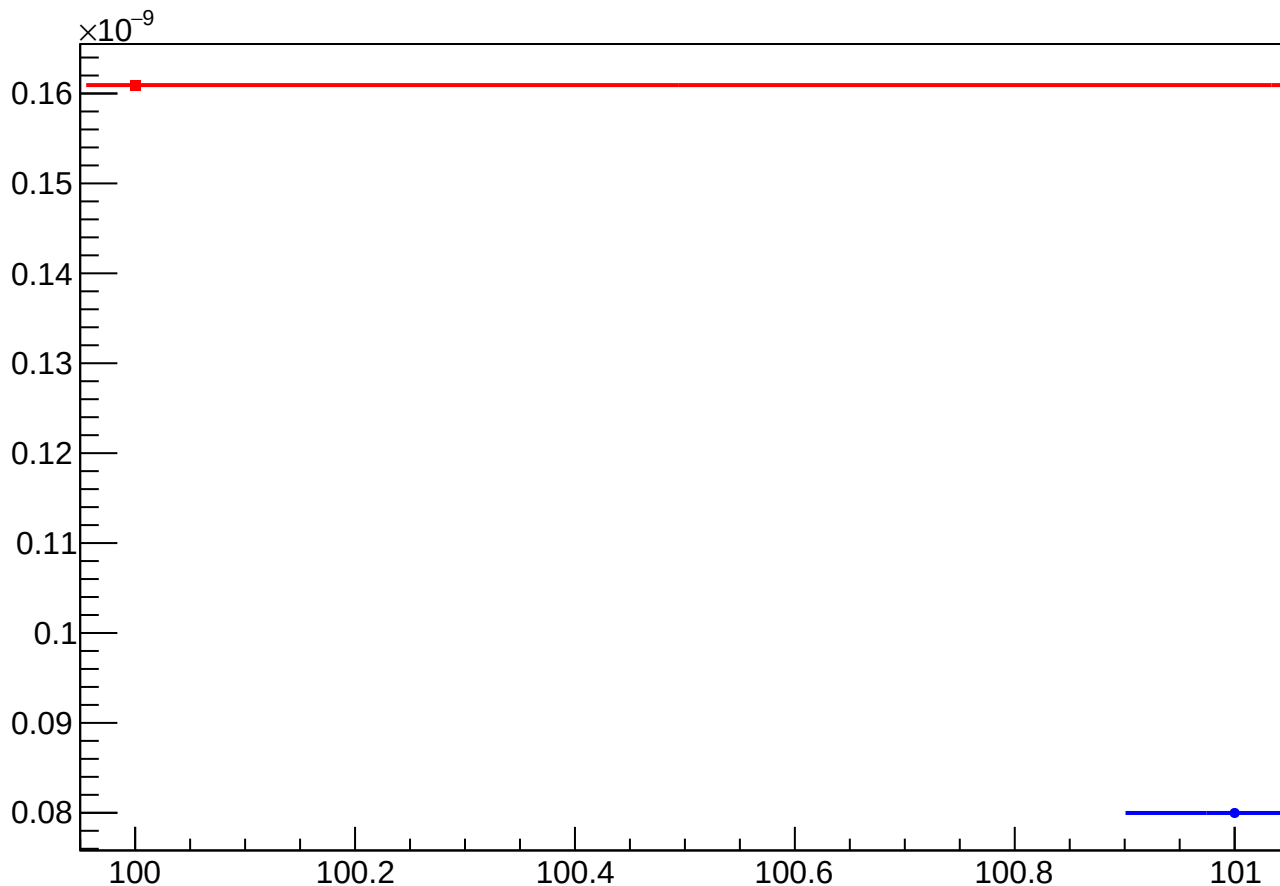
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.3/1

asym\_usl\_atl2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26141.5/1

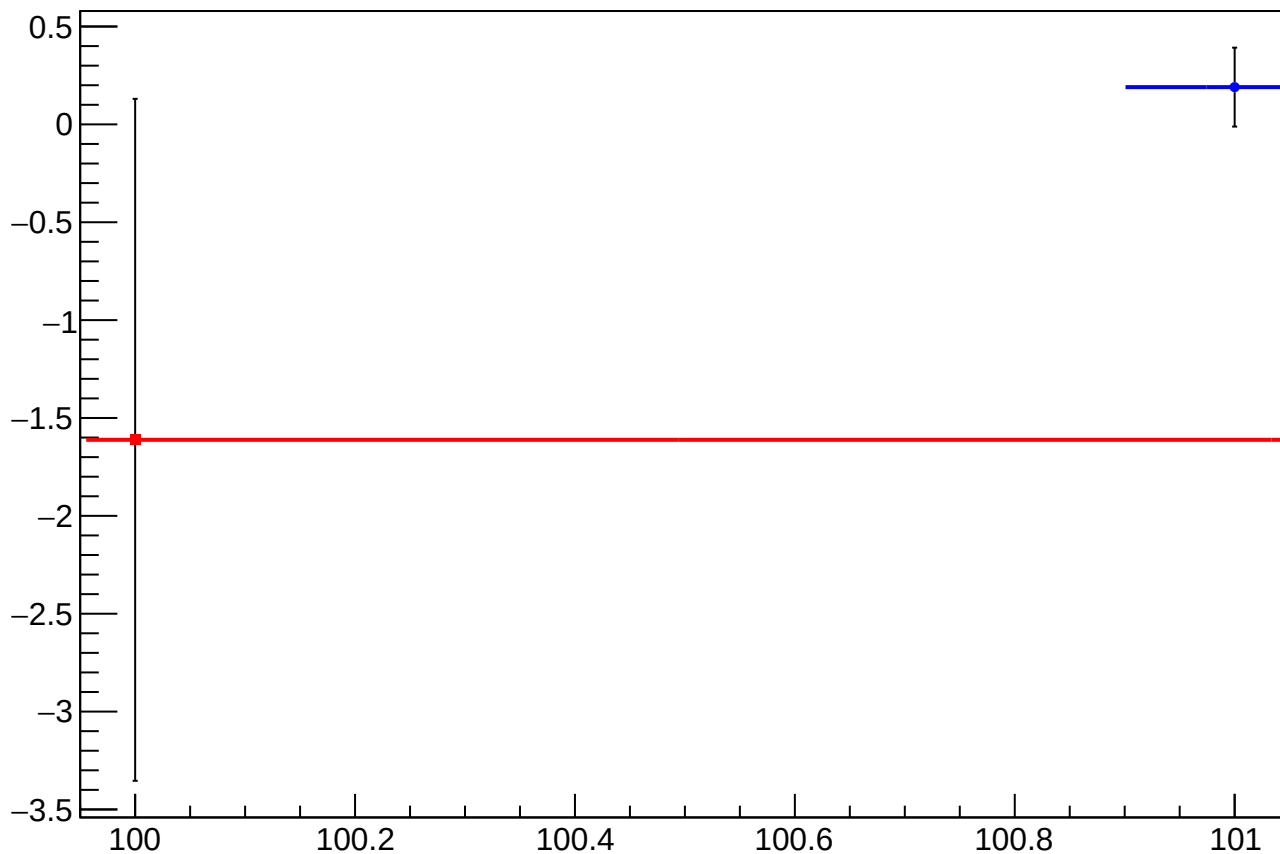
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26141.5/1



asym\_usl\_atl2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.190 $\pm$ 0.202  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.612 $\pm$ 1.742  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

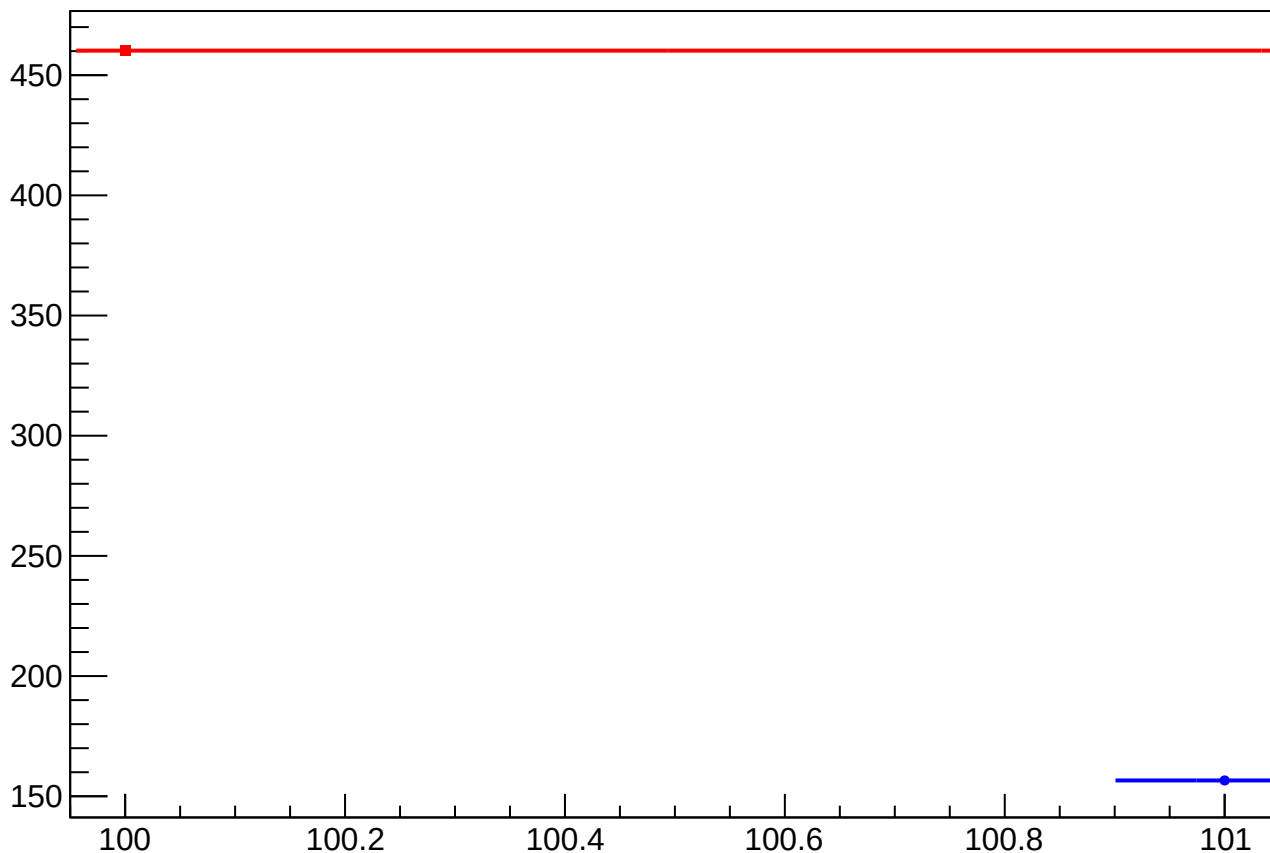
Right: 0.167 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 1.1/1

In: 0.190 $\pm$ 0.202  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.167 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 1.1/1

asym\_usl\_atl2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 156.572 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 460.208 $\pm$ 1.232  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

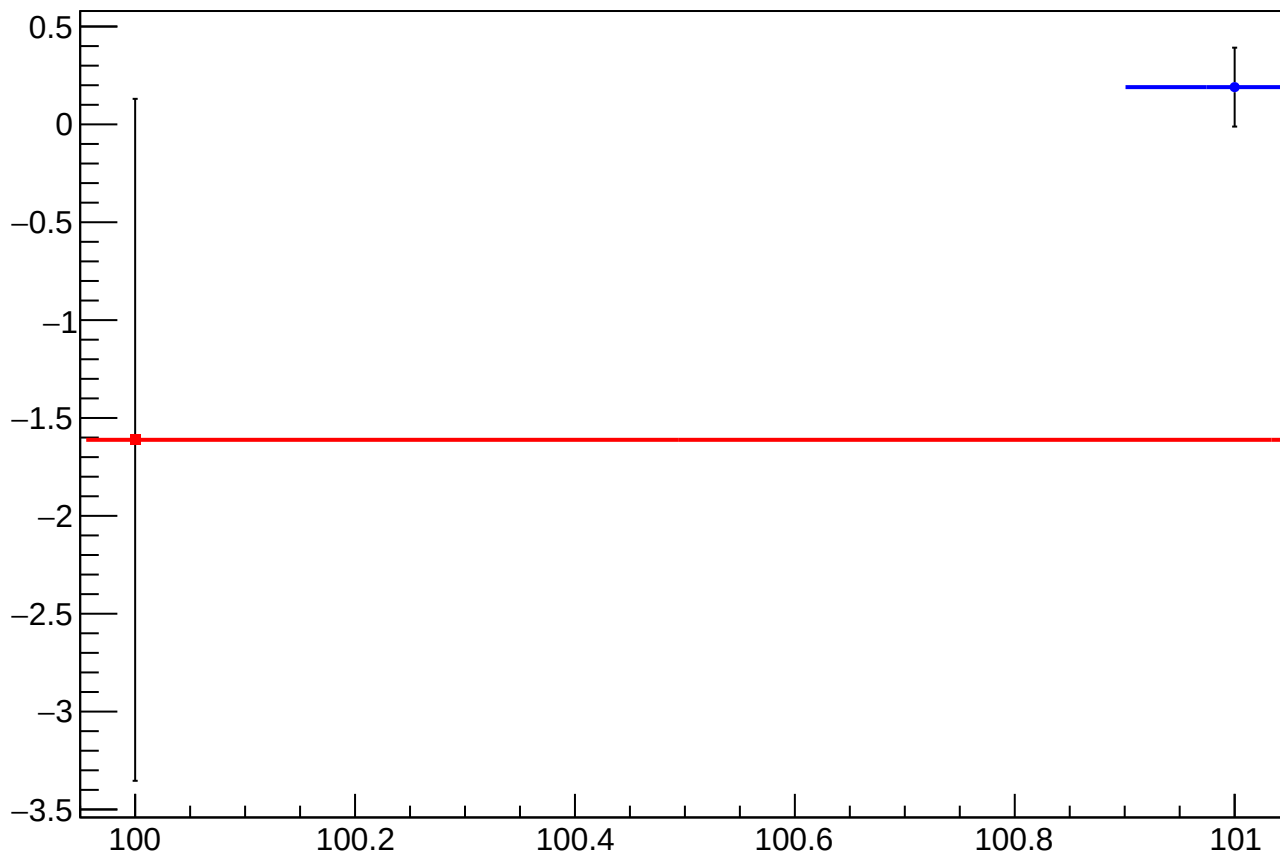
Right: 160.583 $\pm$ 0.142  $\chi^2$ /NDF: 59959.0/1

In: 156.572 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.583 $\pm$ 0.142  $\chi^2$ /NDF: 59959.0/1

asym\_usl\_atl2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.190 +/- 0.202  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.612 +/- 1.742  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

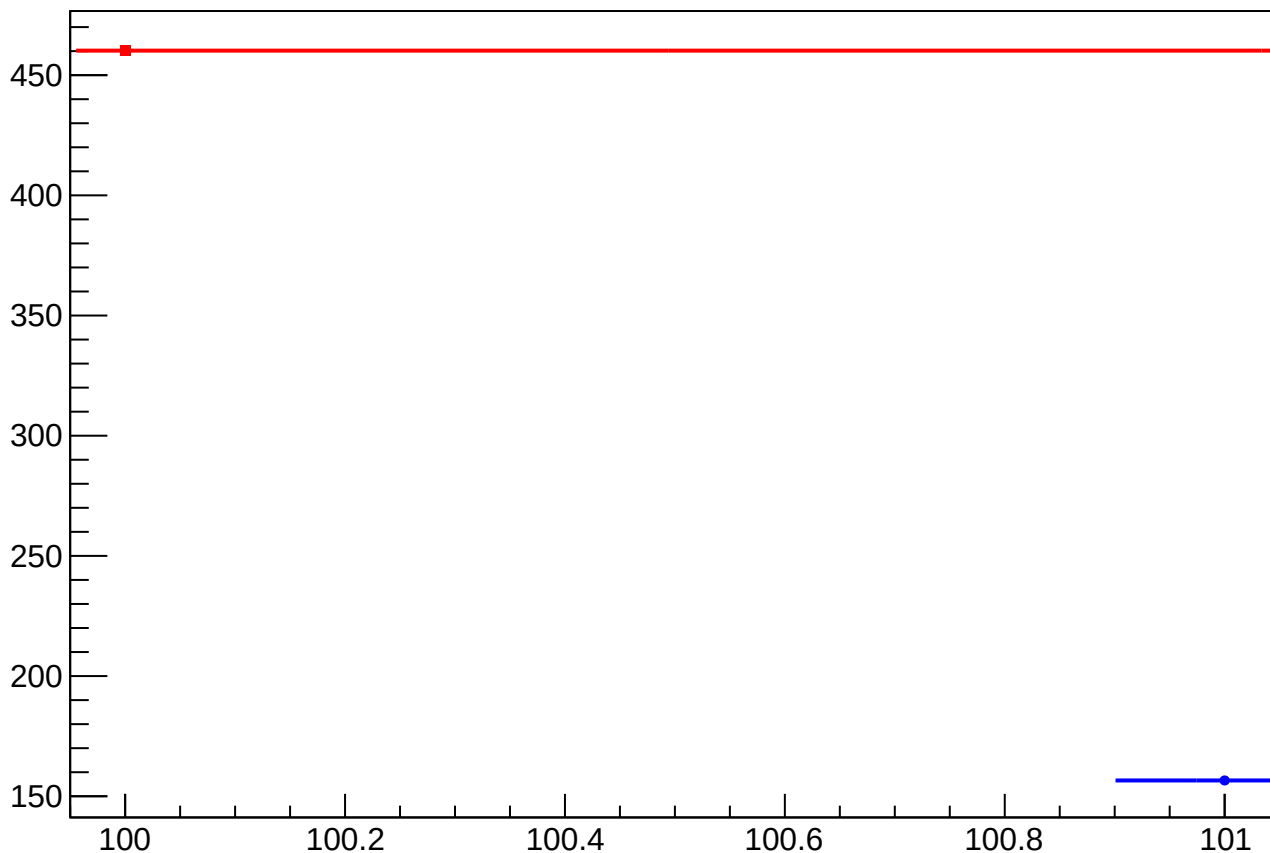
Right: 0.167 +/- 0.200  $\chi^2/\text{NDF}$ : 1.1/1

In: 0.190 +/- 0.202  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.167 +/- 0.200  $\chi^2/\text{NDF}$ : 1.1/1

asym\_usl\_atl2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 156.572 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 460.208 $\pm$ 1.232  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

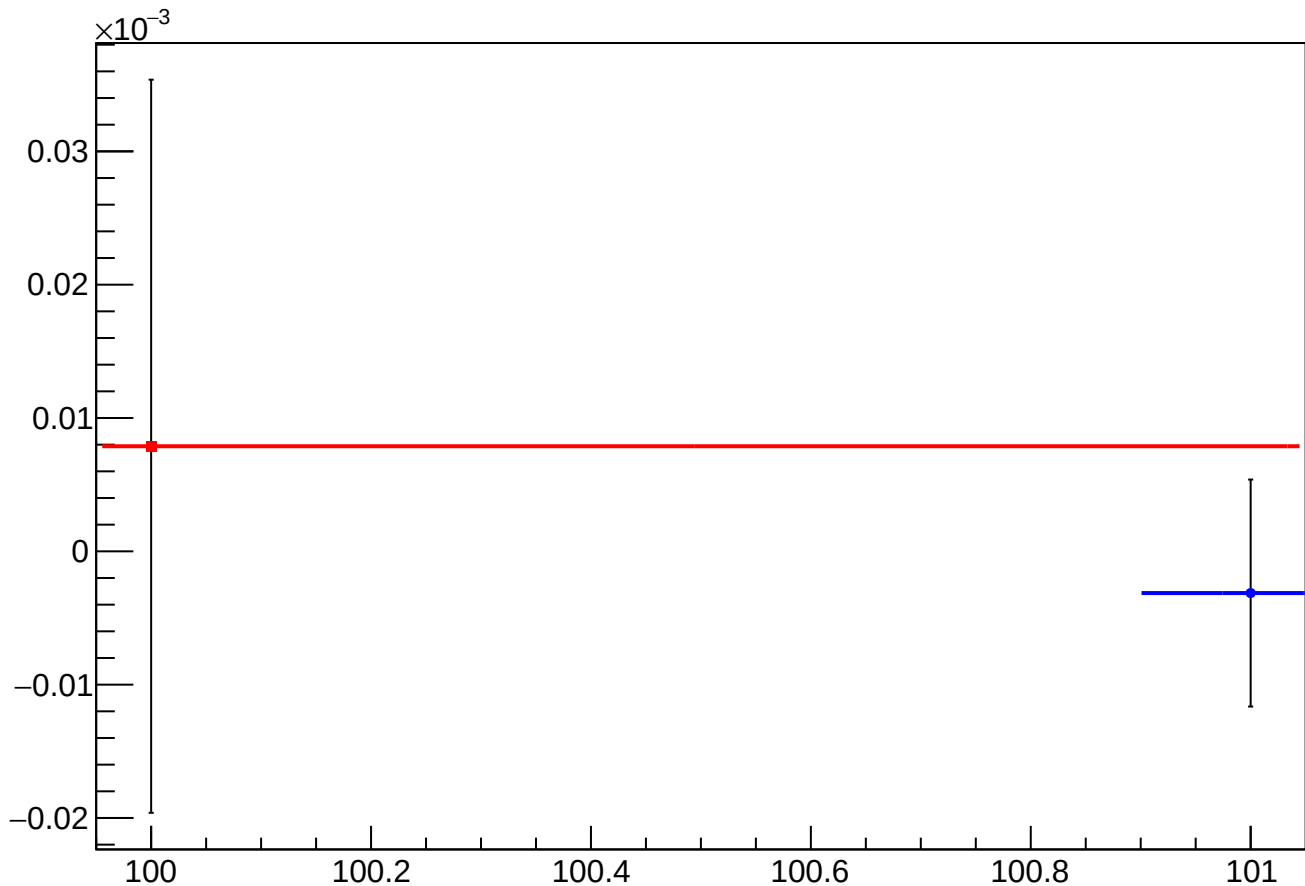
Right: 160.583 $\pm$ 0.142  $\chi^2$ /NDF: 59959.0/1

In: 156.572 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.583 $\pm$ 0.142  $\chi^2$ /NDF: 59959.0/1

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

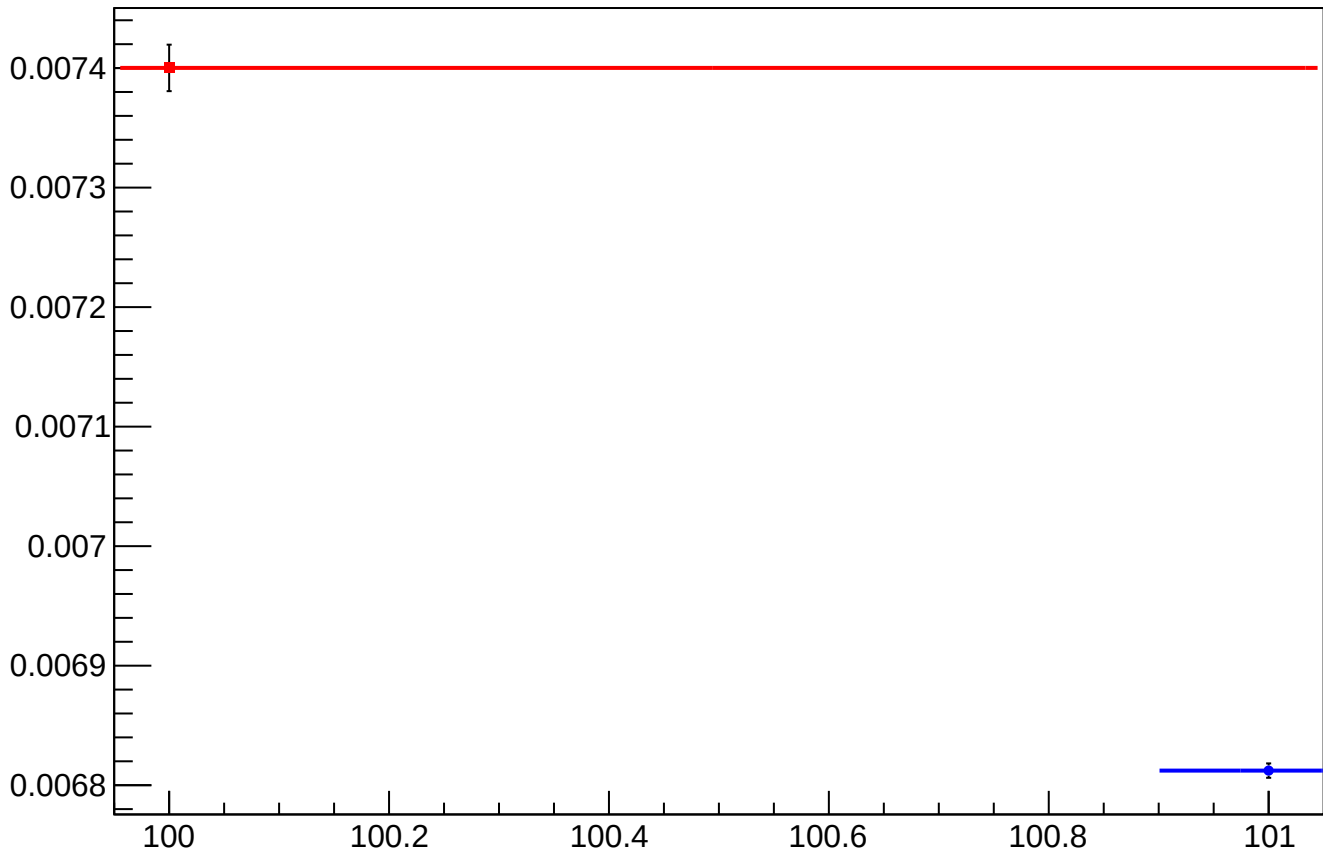
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

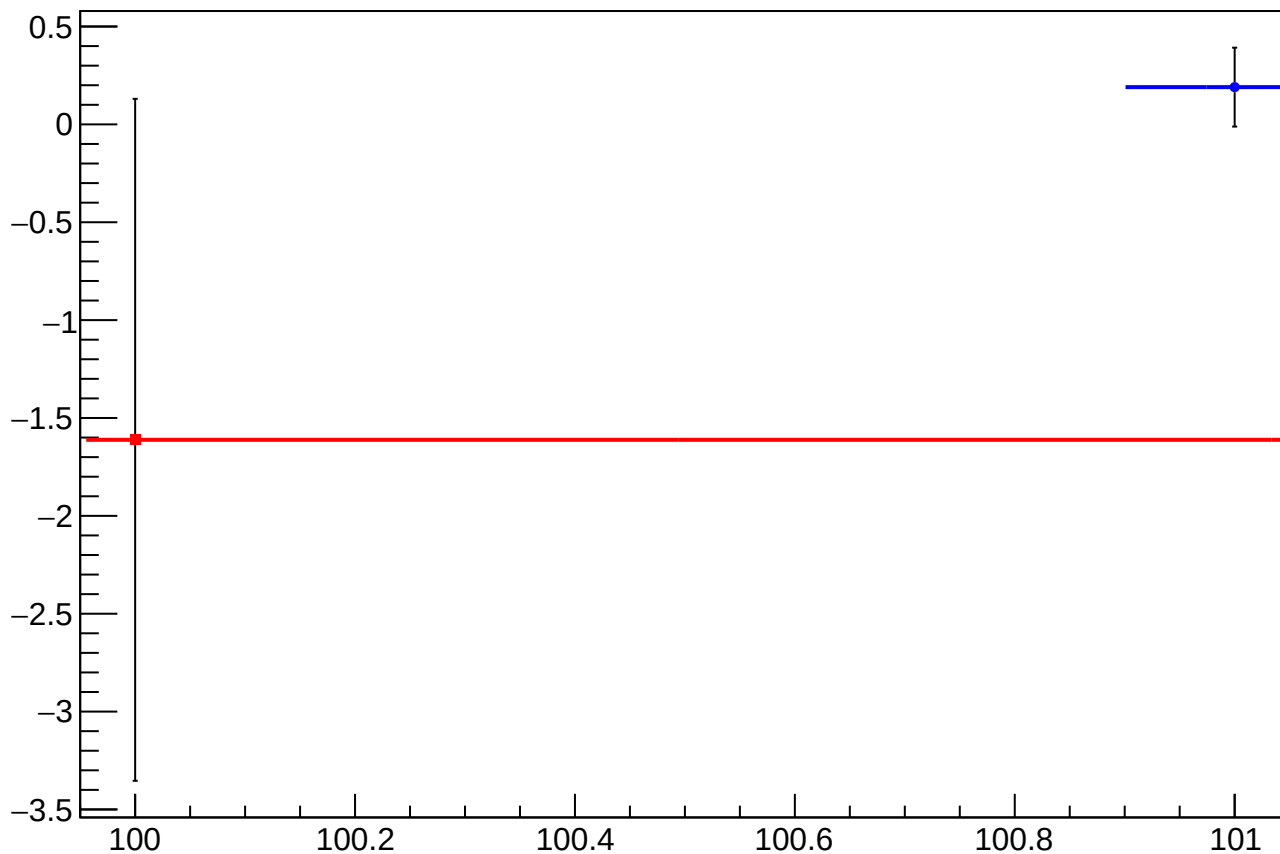
asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 834.5/1  
 In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 834.5/1

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.190 $\pm$ 0.202  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.612 $\pm$ 1.742  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

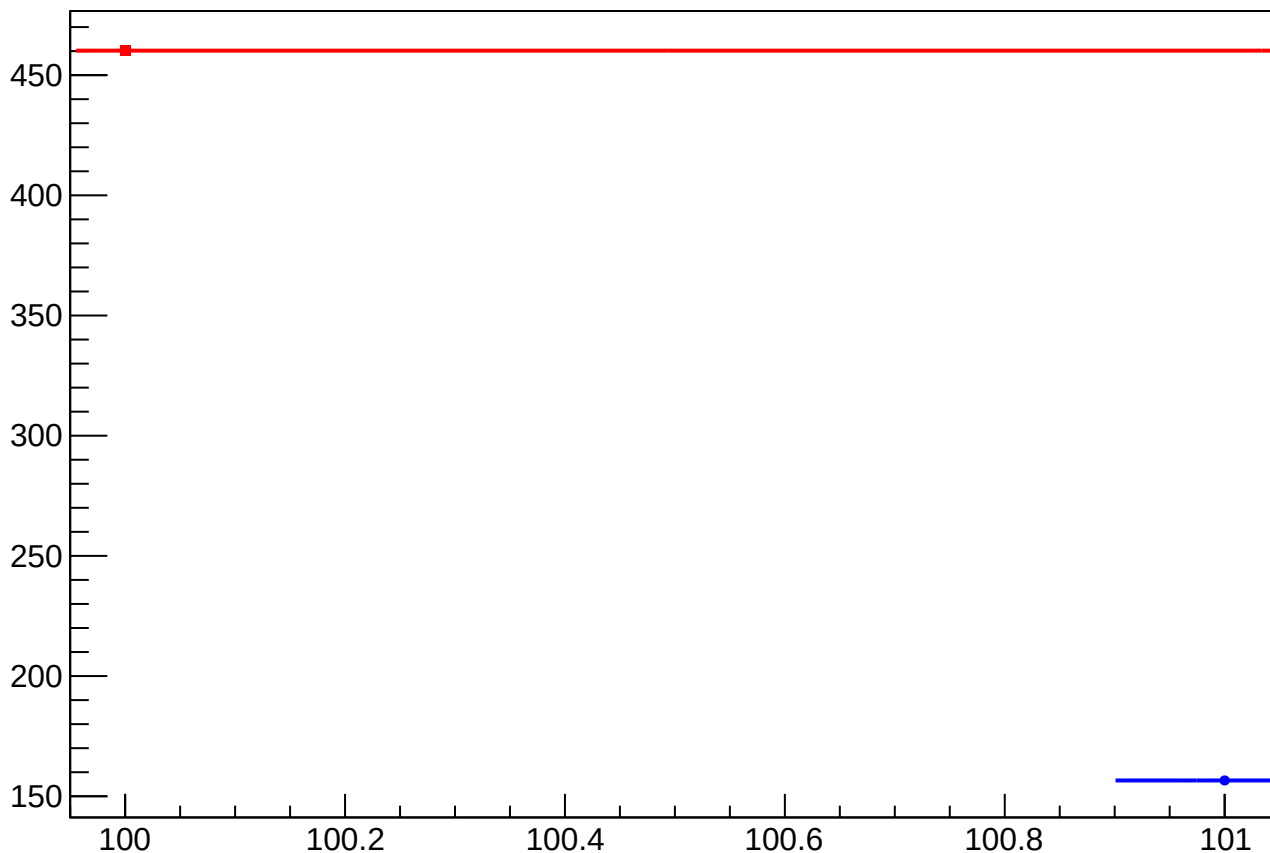
Right: 0.167 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 1.1/1

In: 0.190 $\pm$ 0.202  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.167 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 1.1/1

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 156.568 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 460.203 $\pm$ 1.232  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 160.580 $\pm$ 0.142  $\chi^2$ /NDF: 59959.6/1

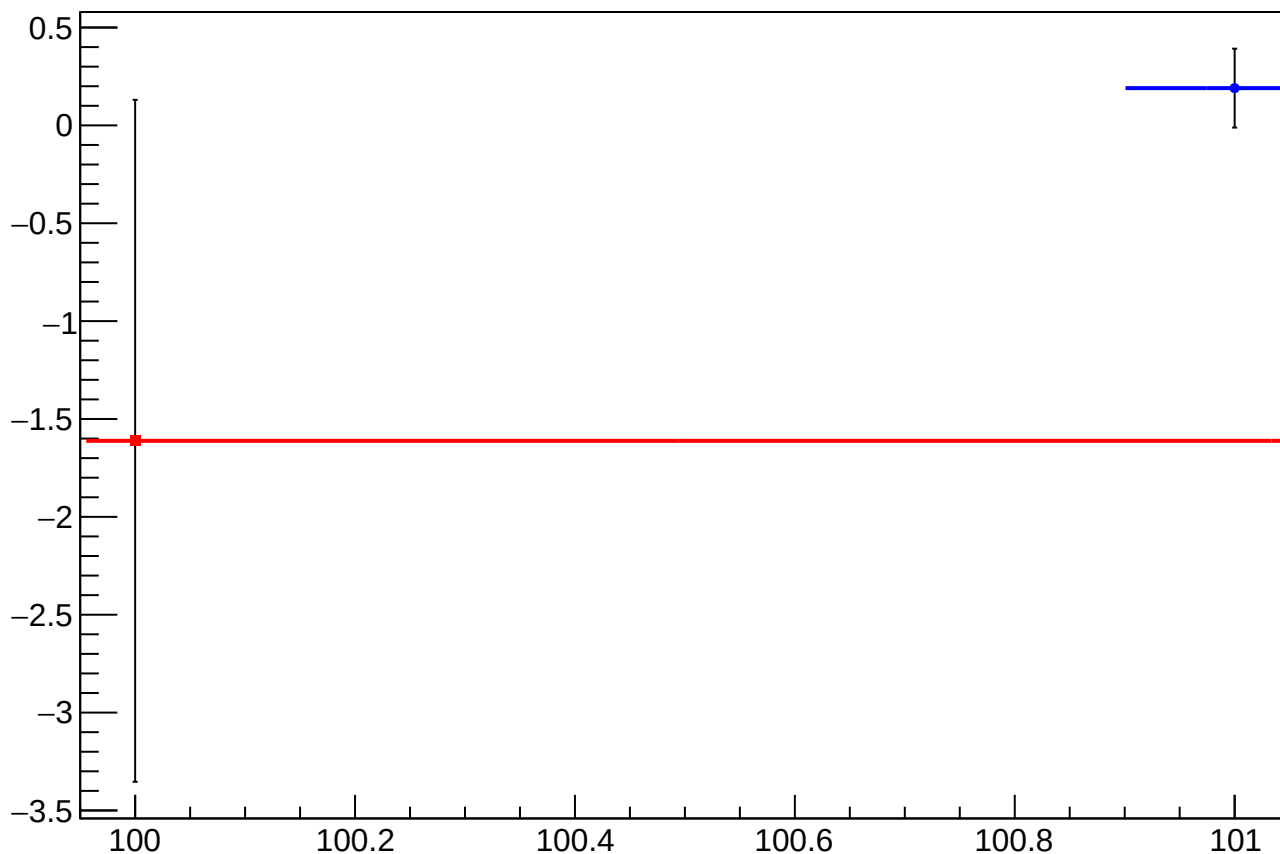
In: 156.568 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.580 $\pm$ 0.142  $\chi^2$ /NDF: 59959.6/1



asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.190+/-0.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.612+/-1.742  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

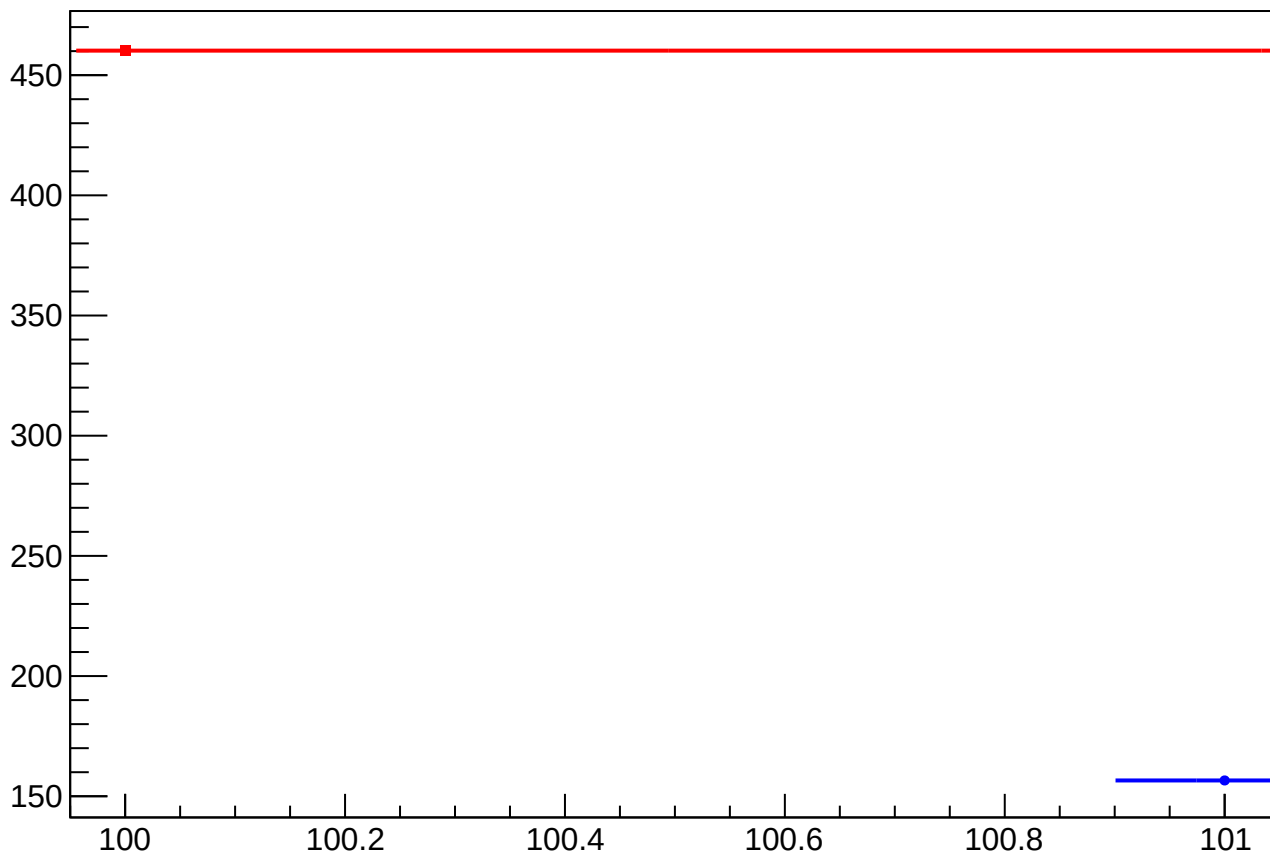
Right: 0.167+/-0.200  $\chi^2$ /NDF: 1.1/1

In: 0.190+/-0.202  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.167+/-0.200  $\chi^2$ /NDF: 1.1/1

asym\_usl\_atl2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 156.568 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 460.203 $\pm$ 1.232  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

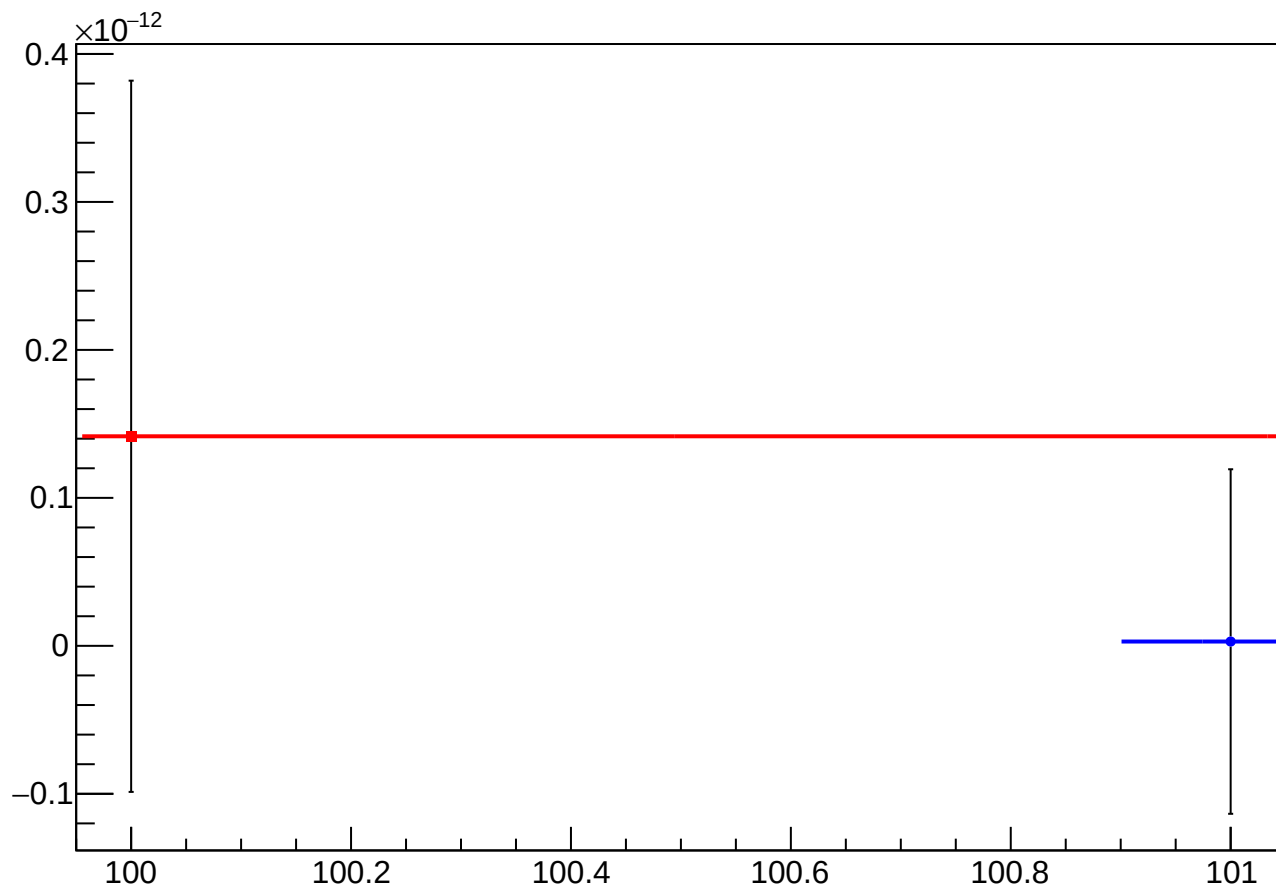
Right: 160.580 $\pm$ 0.142  $\chi^2$ /NDF: 59959.6/1

In: 156.568 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.580 $\pm$ 0.142  $\chi^2$ /NDF: 59959.6/1

asym\_usl\_atl2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

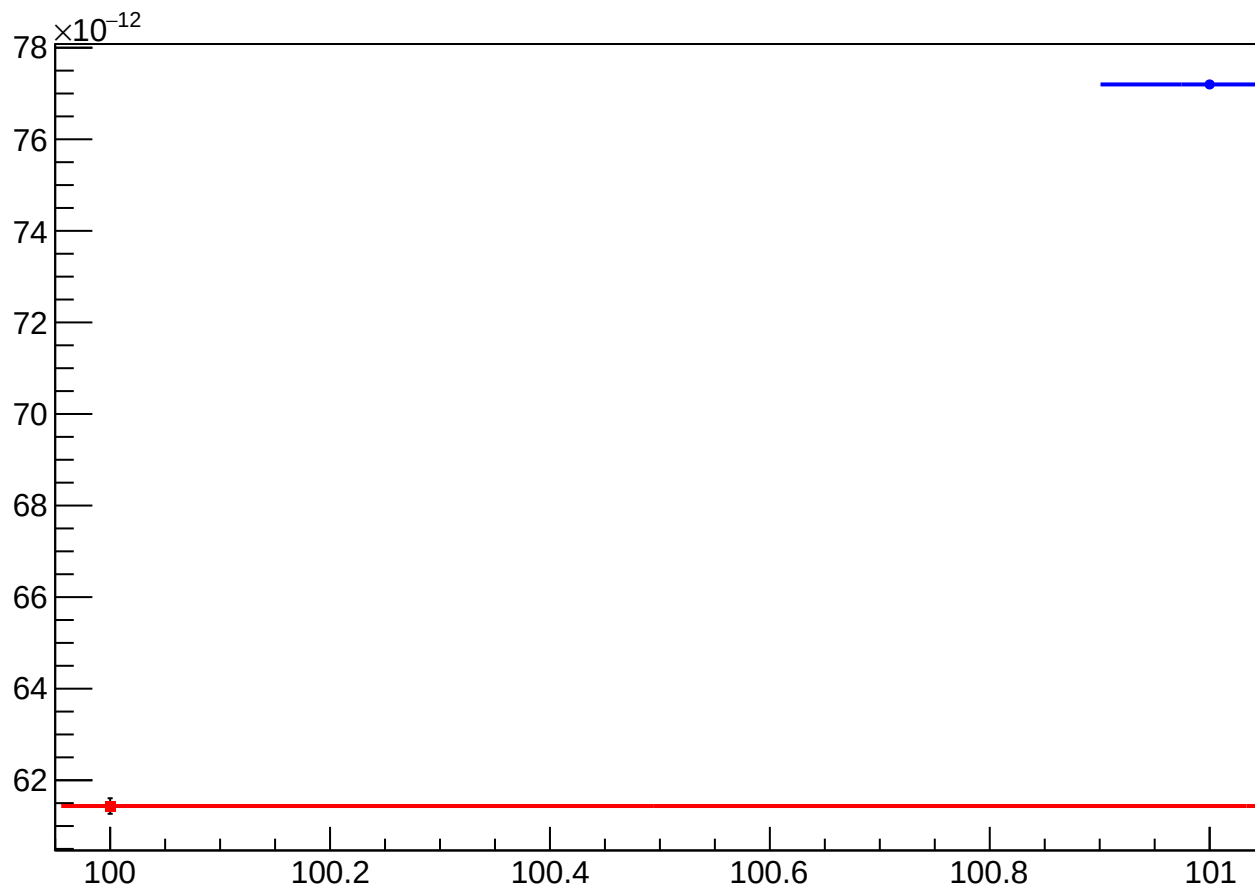
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.3/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.3/1

asym\_usl\_atl2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

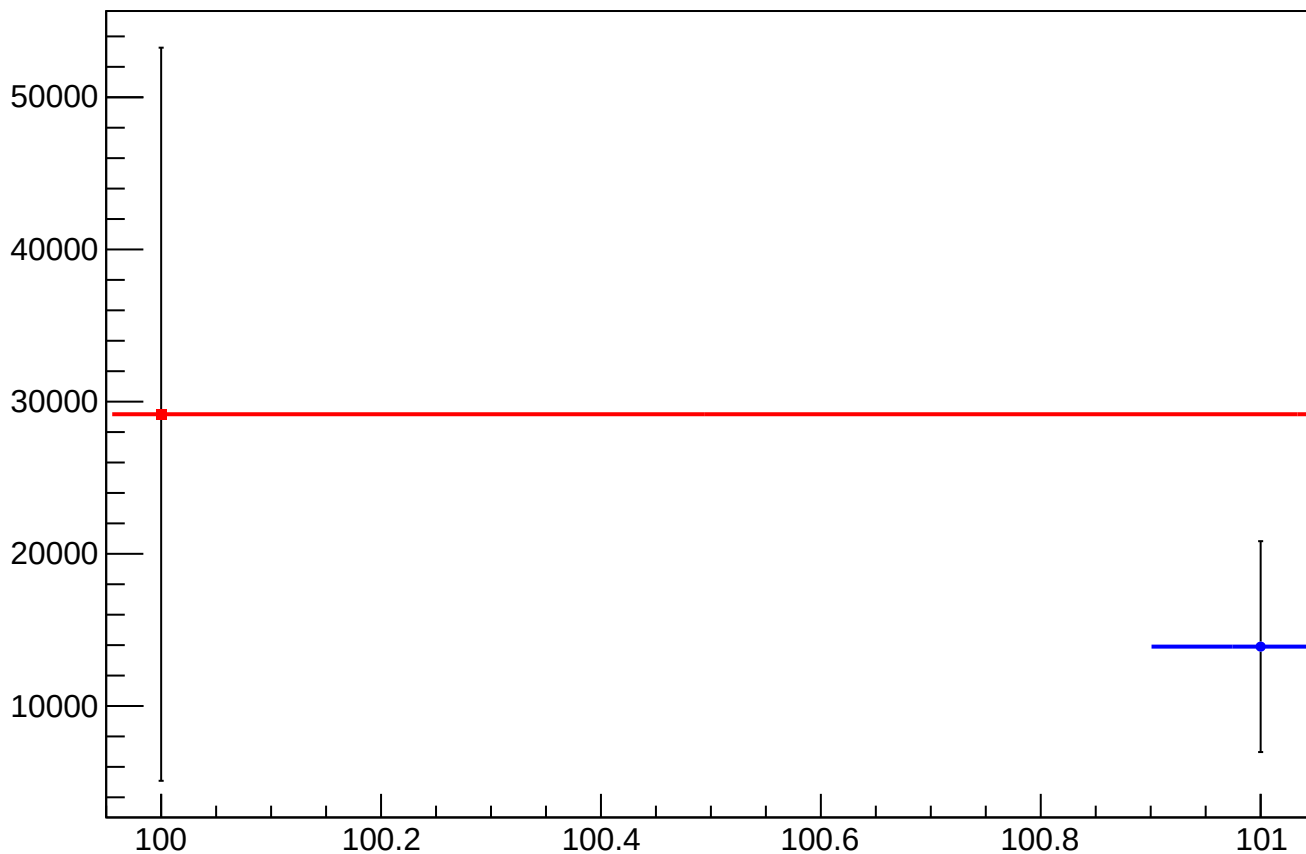
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6966.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6966.5/1

reg\_asym\_usr\_atr1\_avg\_mean vs Slug, Sign Corrected



Right In: 13902.249+/-6928.786  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29172.250+/-24087.405  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

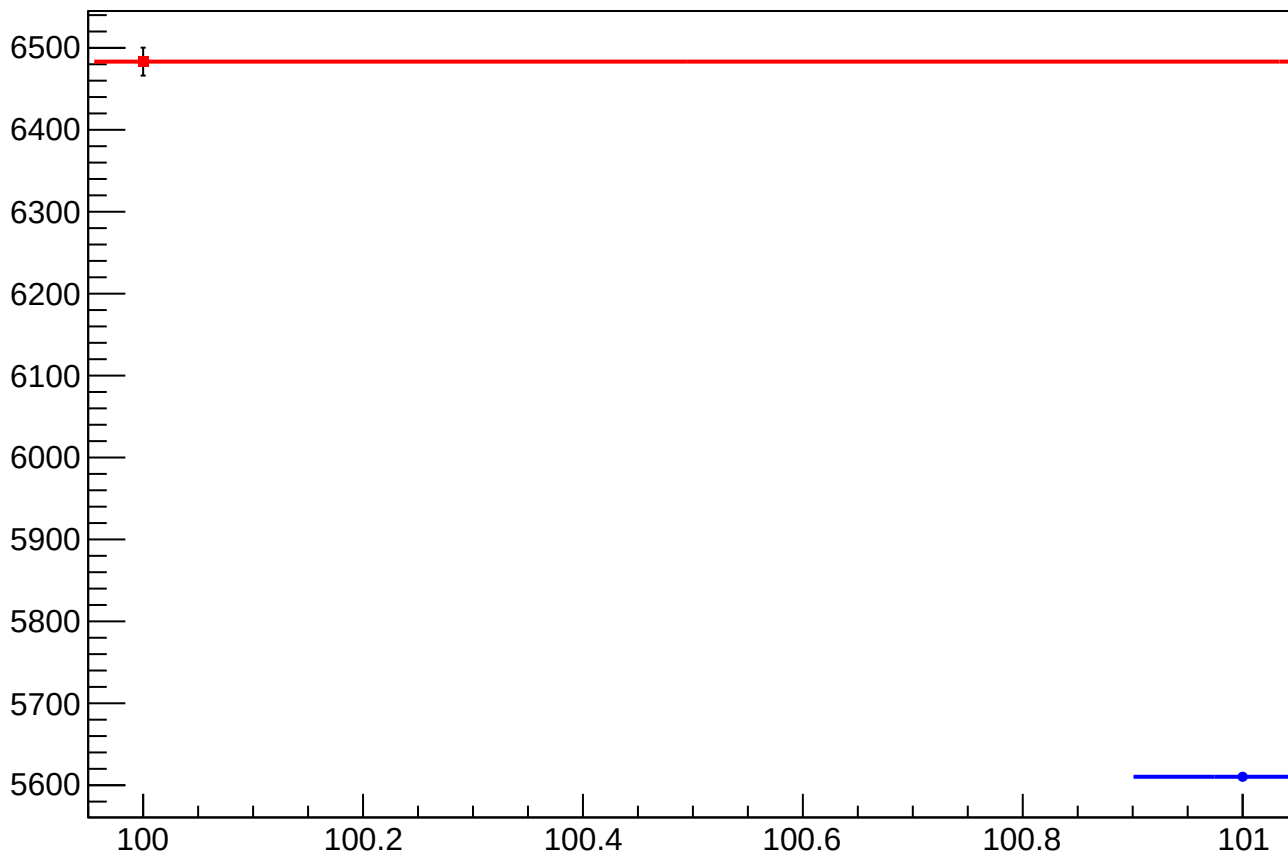
Right: 15069.187+/-6658.775  $\chi^2/\text{NDF}$ : 0.4/1

In: 13902.249+/-6928.786  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15069.187+/-6658.775  $\chi^2/\text{NDF}$ : 0.4/1

reg\_asym\_usr\_atr1\_avg\_rms vs Slug, Sign Corrected



Right In: 5610.292+/-4.899  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6483.238+/-17.032  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

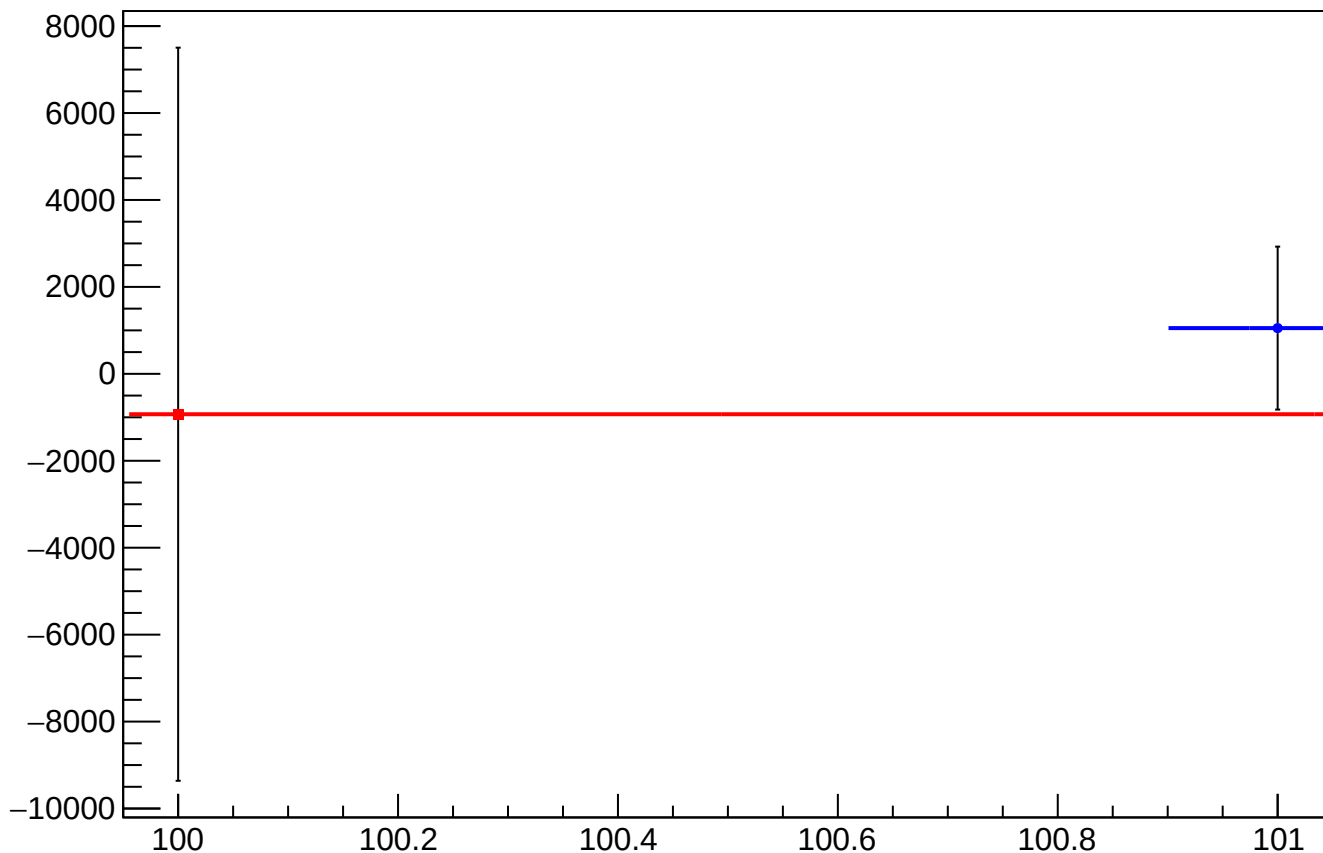
Right: 5677.003+/-4.708  $\chi^2/\text{NDF}$ : 2426.0/1

In: 5610.292+/-4.899  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5677.003+/-4.708  $\chi^2/\text{NDF}$ : 2426.0/1

asym\_usr\_atr1\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1052.116+/-1874.362  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -929.332+/-8432.767  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

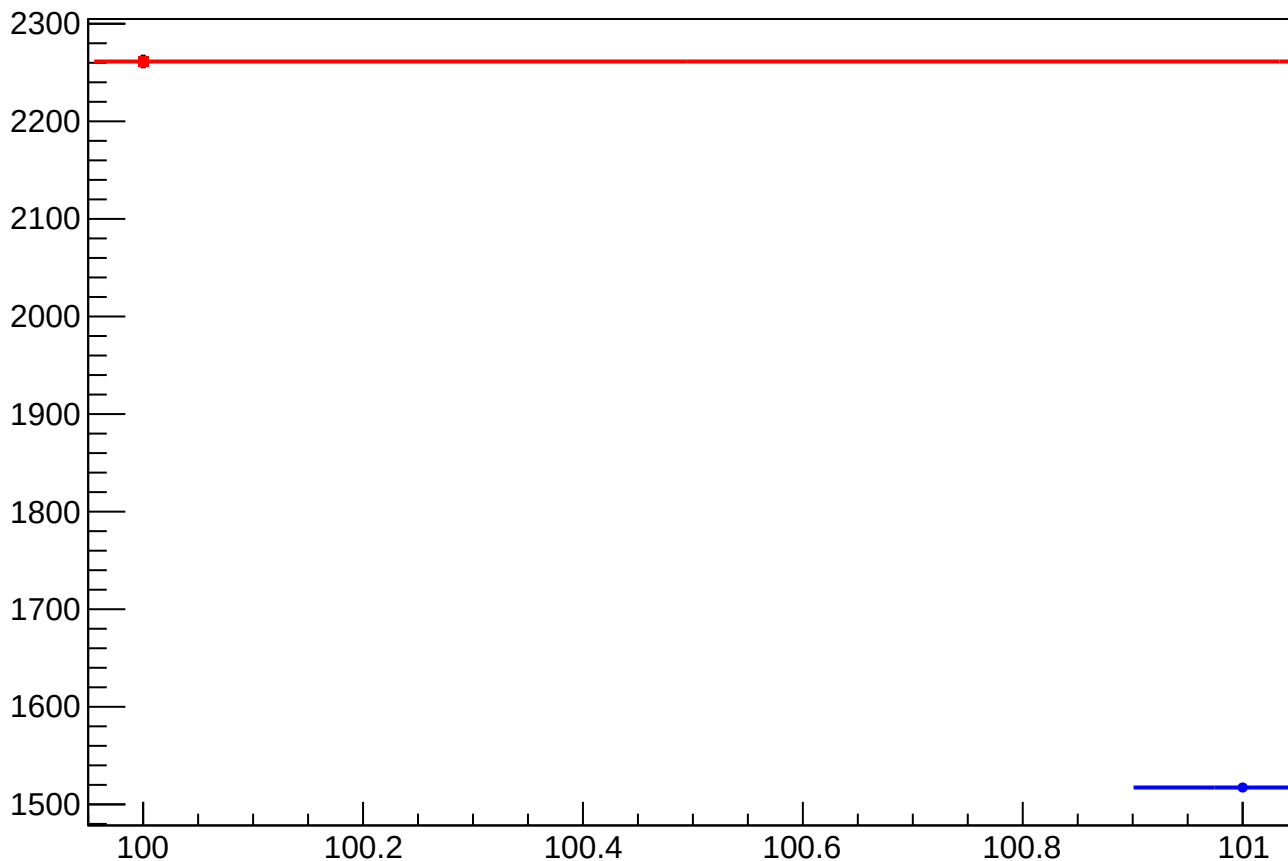
Right: 958.832+/-1829.709  $\chi^2/\text{NDF}$ : 0.1/1

In: 1052.116+/-1874.362  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 958.832+/-1829.709  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr1\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1517.306 $\pm$ 1.325  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2261.324 $\pm$ 5.963  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1552.334 $\pm$ 1.294  $\chi^2$ /NDF: 14835.9/1

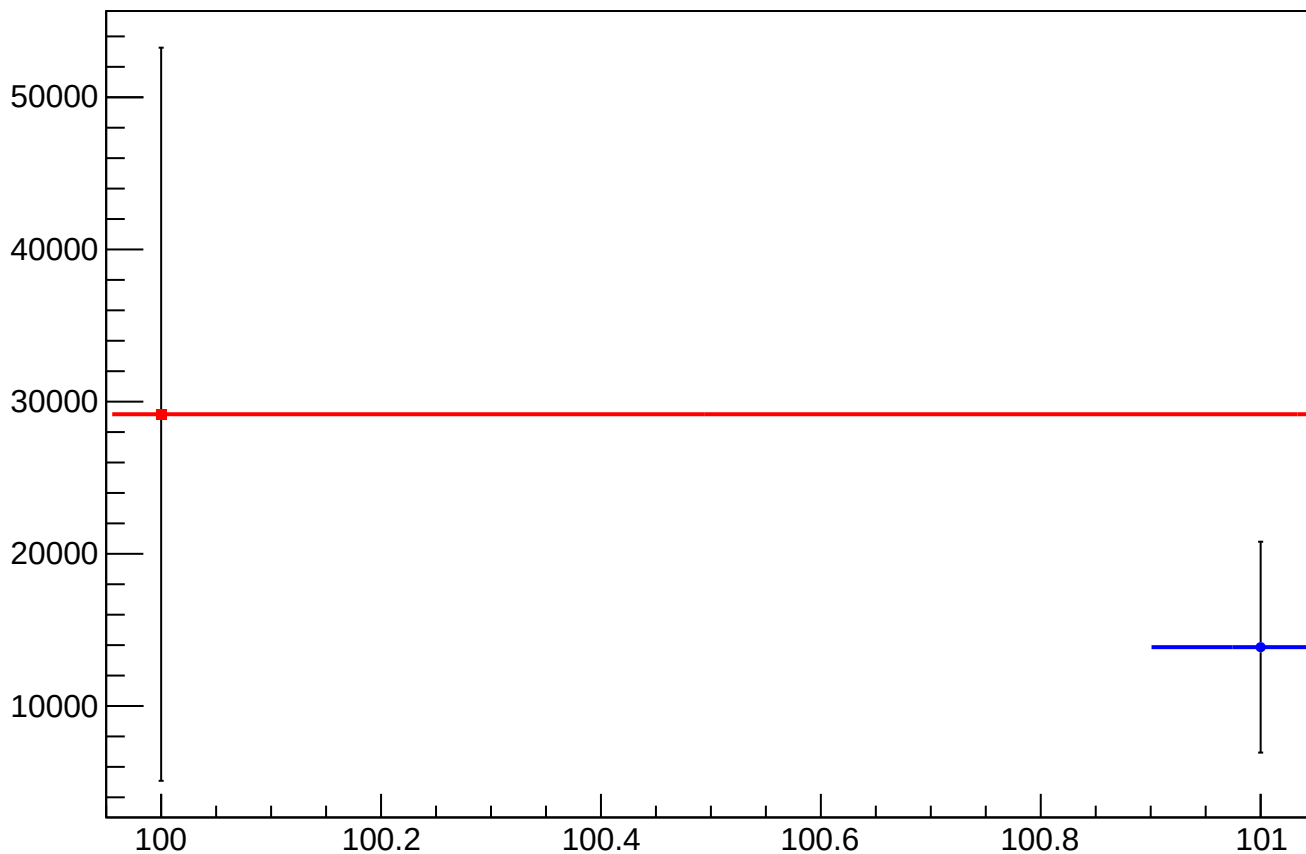
In: 1517.306 $\pm$ 1.325  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1552.334 $\pm$ 1.294  $\chi^2$ /NDF: 14835.9/1



cor\_asym\_usr\_atr1\_avg\_mean vs Slug, Sign Corrected



Right In: 13866.795 $\pm$ 6928.815  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 29172.284 $\pm$ 24087.405  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

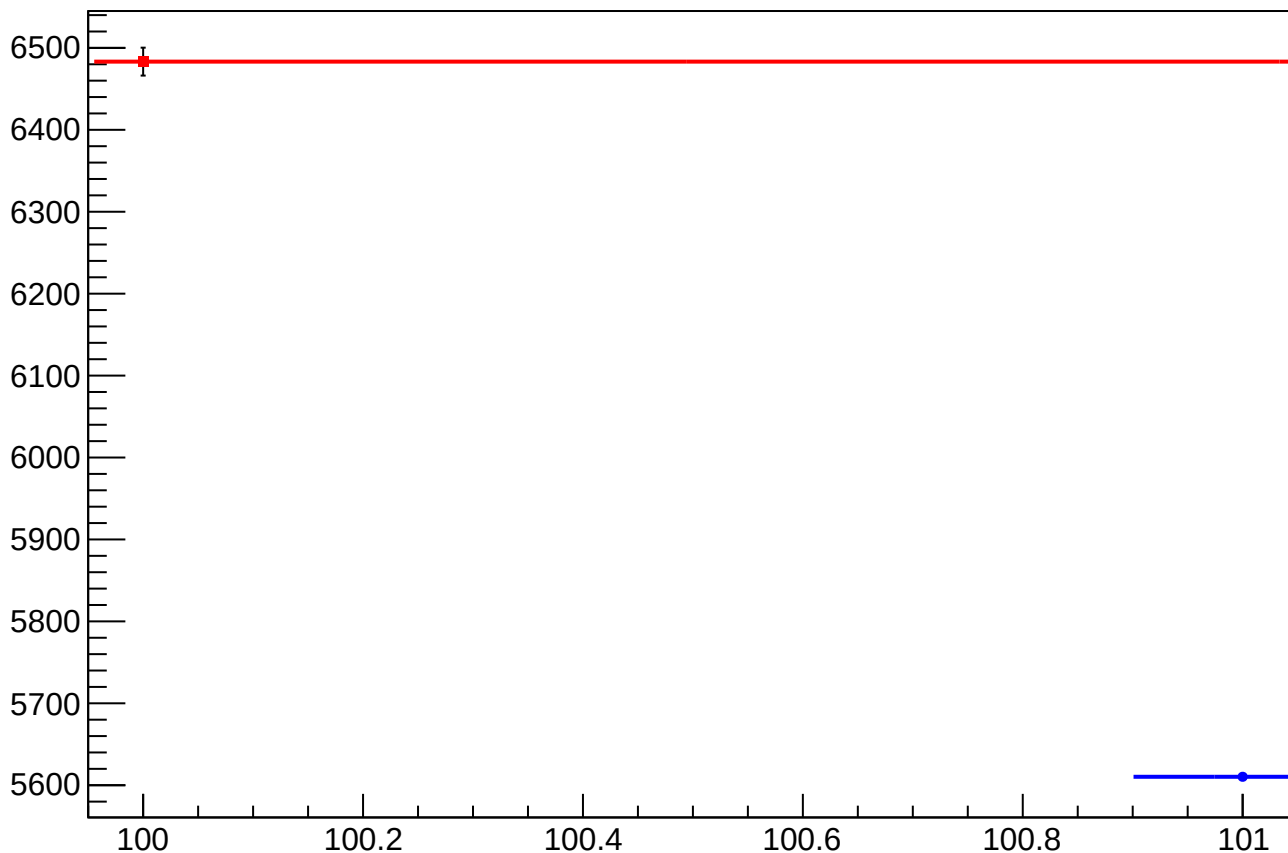
Right: 15036.454 $\pm$ 6658.801  $\chi^2$ /NDF: 0.4/1

In: 13866.795 $\pm$ 6928.815  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 15036.454 $\pm$ 6658.801  $\chi^2$ /NDF: 0.4/1

cor\_asym\_usr\_atr1\_avg\_rms vs Slug, Sign Corrected



Right In: 5610.308+/-4.899  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6483.238+/-17.032  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

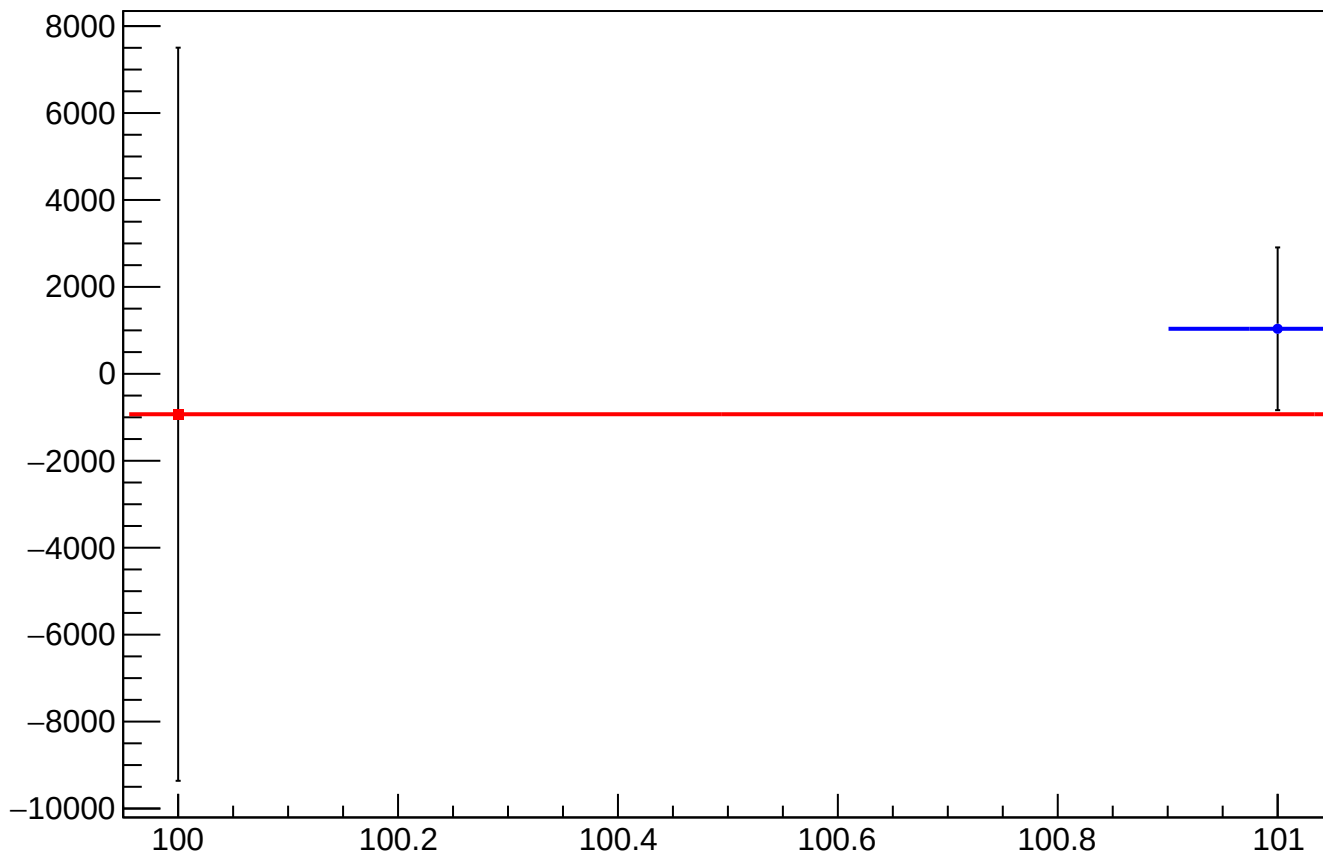
Right: 5677.018+/-4.708  $\chi^2/\text{NDF}$ : 2426.0/1

In: 5610.308+/-4.899  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5677.018+/-4.708  $\chi^2/\text{NDF}$ : 2426.0/1

asym\_usr\_atr1\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1036.351+/-1871.819  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -929.299+/-8432.764  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

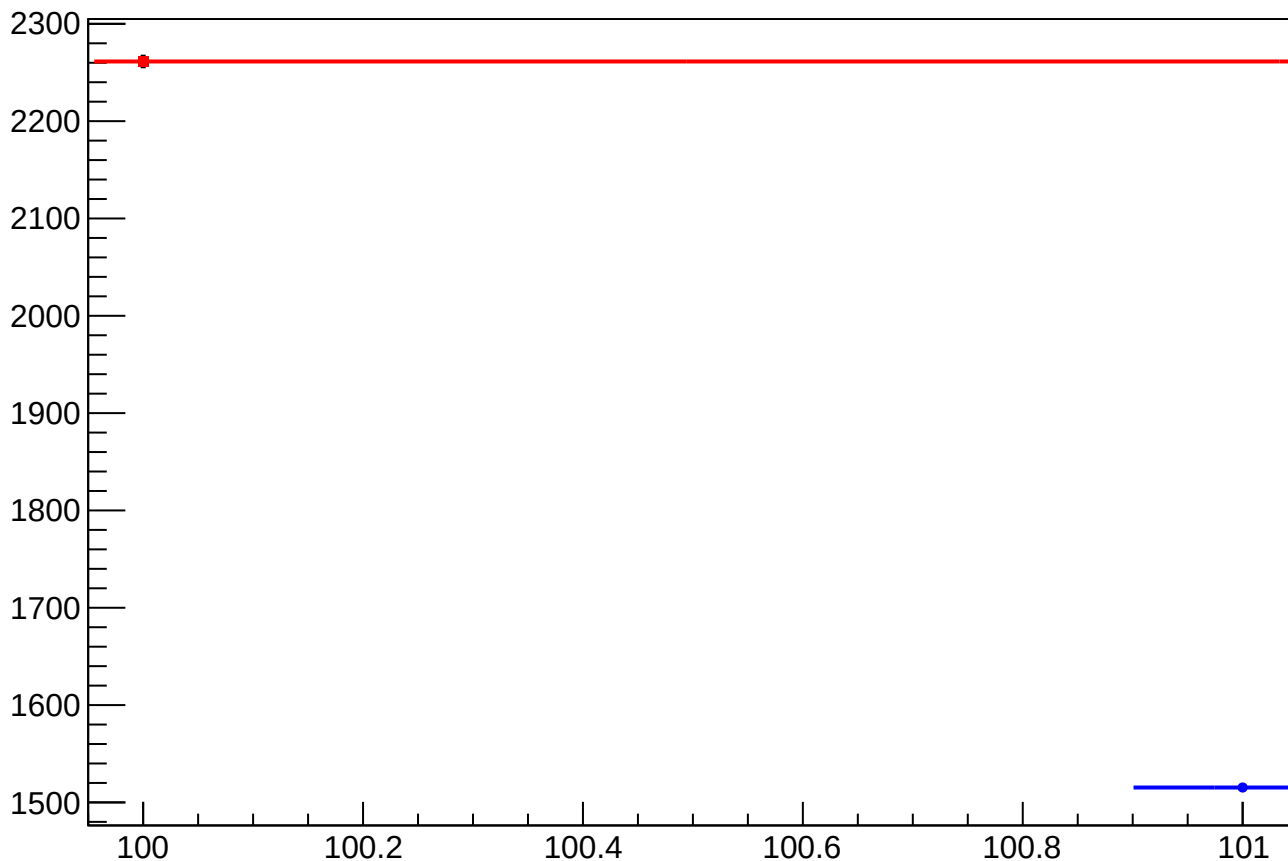
Right: 944.050+/-1827.343  $\chi^2/\text{NDF}$ : 0.1/1

In: 1036.351+/-1871.819  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 944.050+/-1827.343  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr1\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1515.303 $\pm$ 1.324  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2261.324 $\pm$ 5.963  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

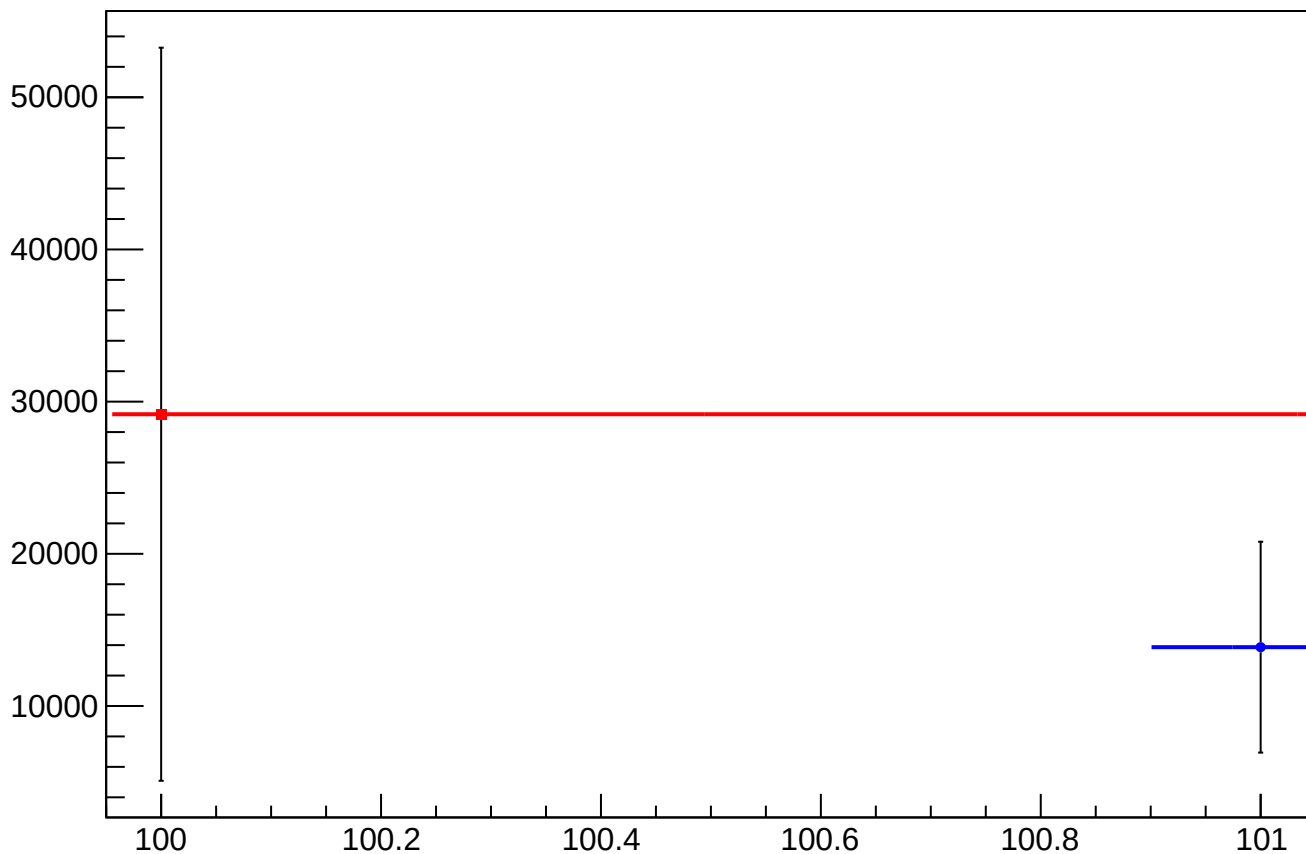
Right: 1550.334 $\pm$ 1.292  $\chi^2$ /NDF: 14917.8/1

In: 1515.303 $\pm$ 1.324  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1550.334 $\pm$ 1.292  $\chi^2$ /NDF: 14917.8/1

eigen\_cor\_asym\_usr\_atr1\_avg\_mean vs Slug, Sign Corrected



Right In: 13866.795+/-6928.815  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29172.284+/-24087.405  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

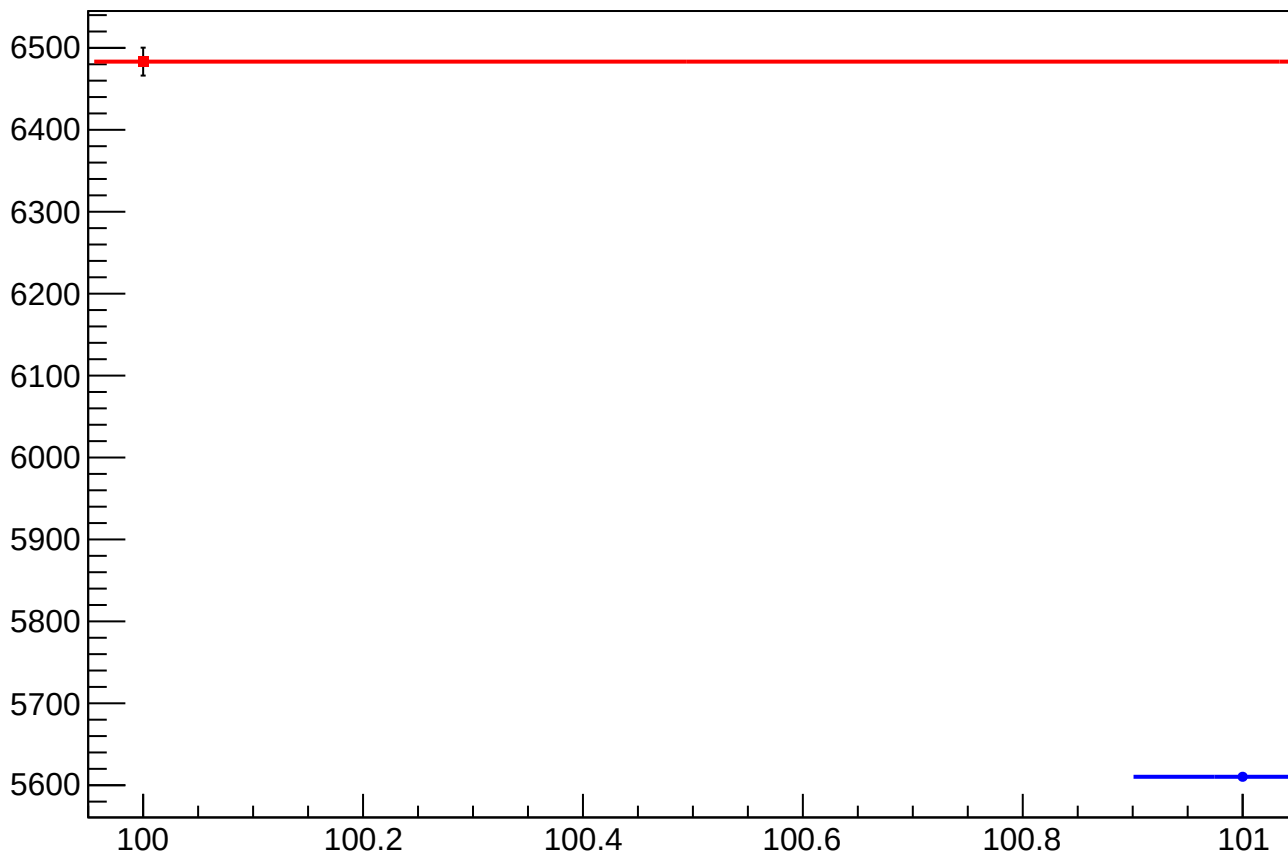
Right: 15036.454+/-6658.801  $\chi^2/\text{NDF}$ : 0.4/1

In: 13866.795+/-6928.815  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15036.454+/-6658.801  $\chi^2/\text{NDF}$ : 0.4/1

eigen\_cor\_asym\_usr\_atr1\_avg\_rms vs Slug, Sign Corrected



Right In: 5610.308+/-4.899  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6483.238+/-17.032  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

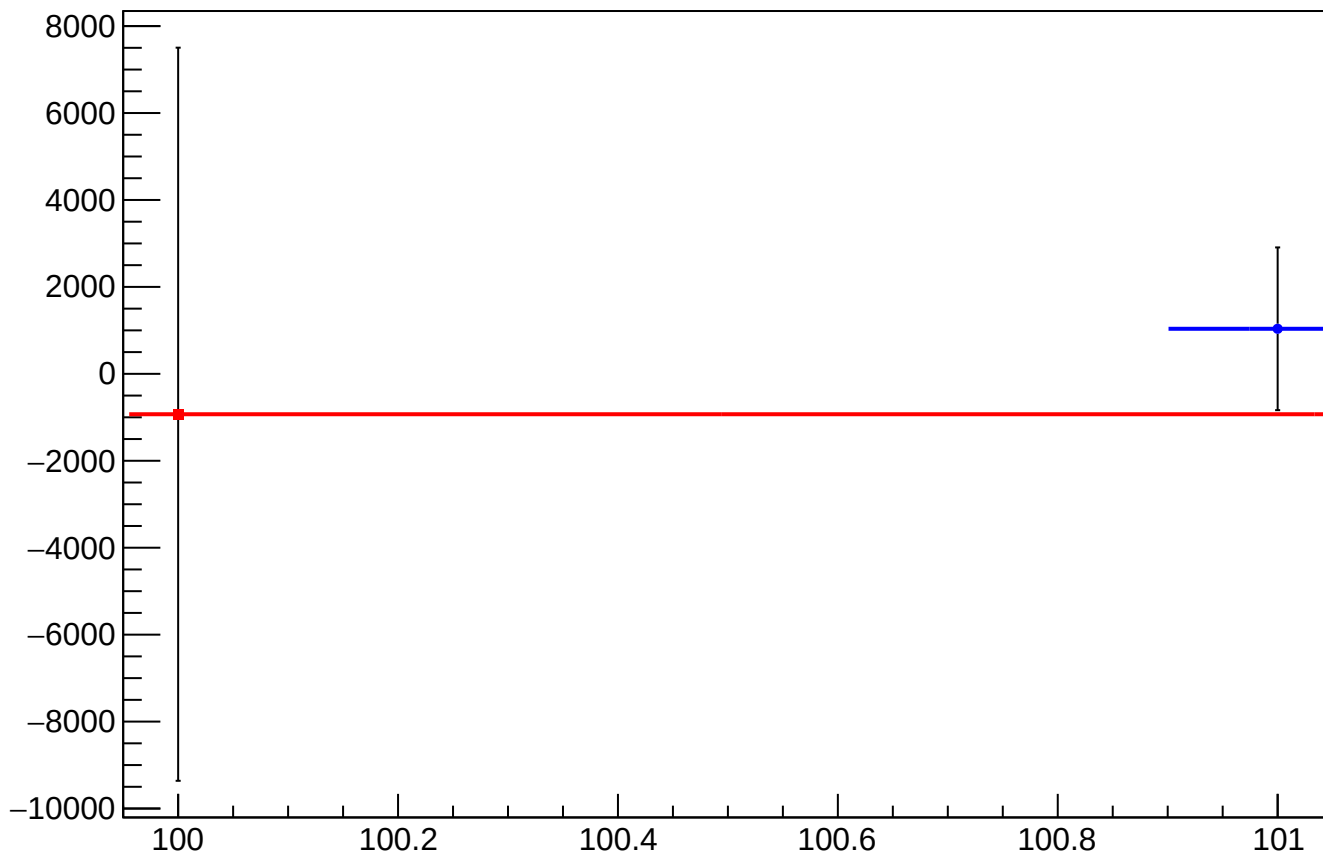
Right: 5677.018+/-4.708  $\chi^2/\text{NDF}$ : 2426.0/1

In: 5610.308+/-4.899  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5677.018+/-4.708  $\chi^2/\text{NDF}$ : 2426.0/1

asym\_usr\_atr1\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1036.351+/-1871.819  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -929.299+/-8432.764  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

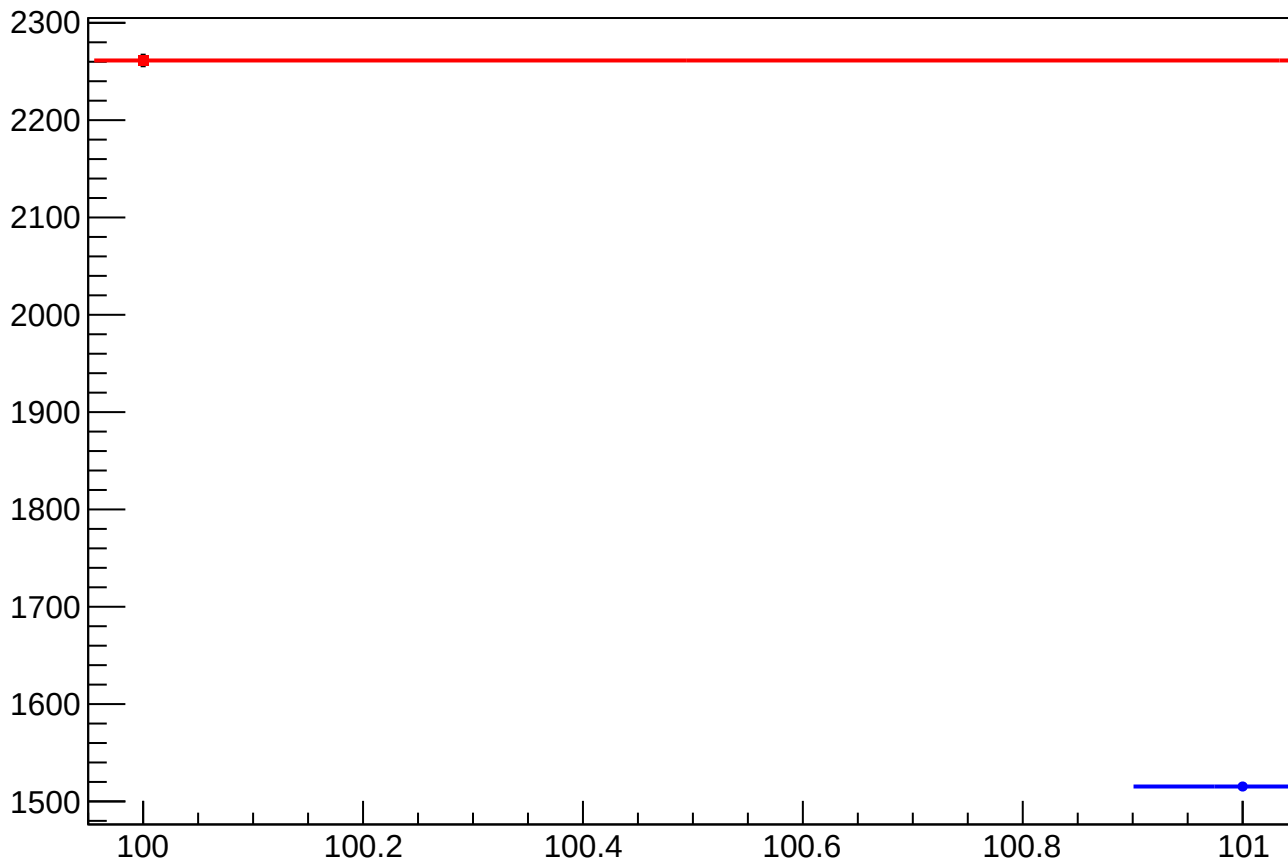
Right: 944.050+/-1827.343  $\chi^2/\text{NDF}$ : 0.1/1

In: 1036.351+/-1871.819  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 944.050+/-1827.343  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr1\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1515.303+/-1.324  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2261.324+/-5.963  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1550.334+/-1.292  $\chi^2/\text{NDF}$ : 14917.8/1

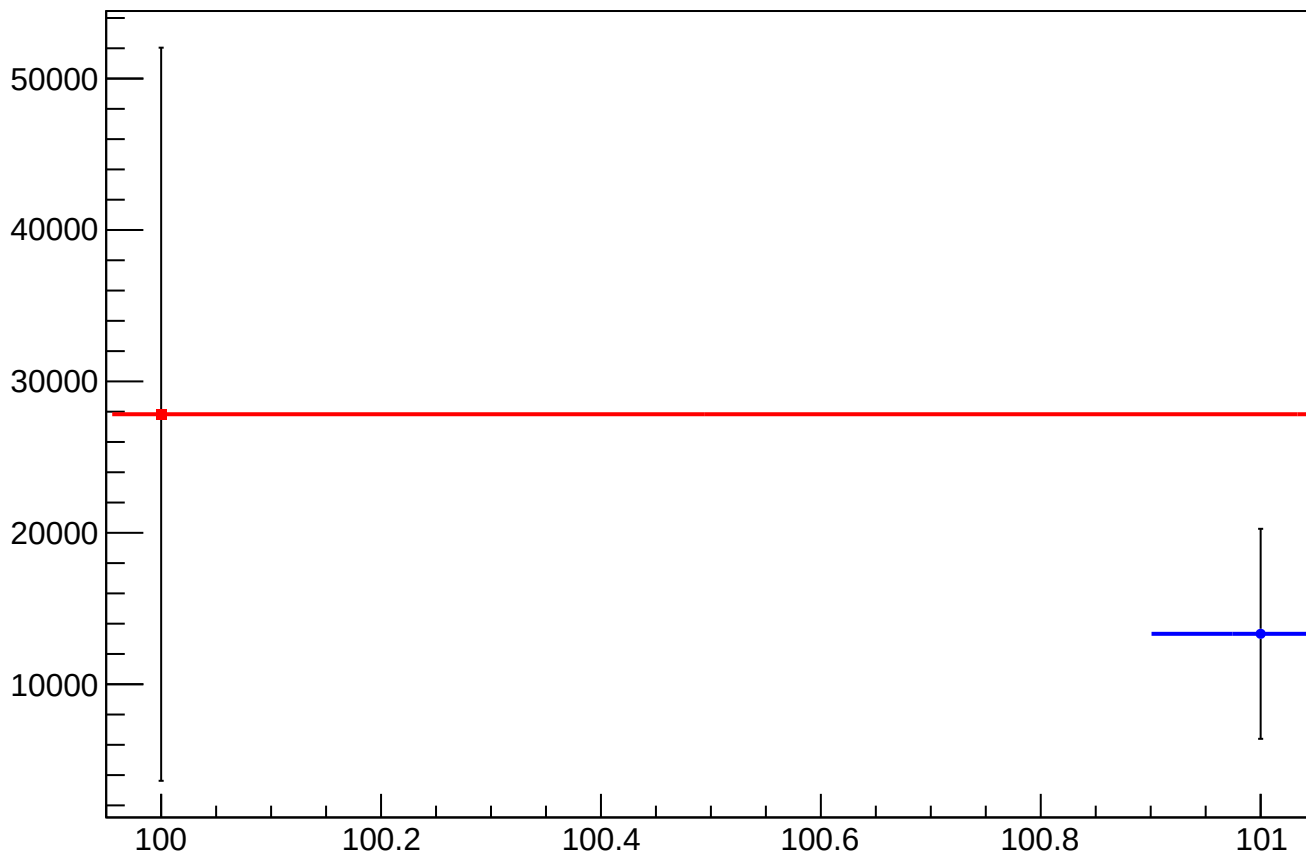
In: 1515.303+/-1.324  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1550.334+/-1.292  $\chi^2/\text{NDF}$ : 14917.8/1



dit\_asym\_usr\_atr1\_avg\_mean vs Slug, Sign Corrected



Right In: 13330.110 $\pm$ 6935.038  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 27831.945 $\pm$ 24208.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

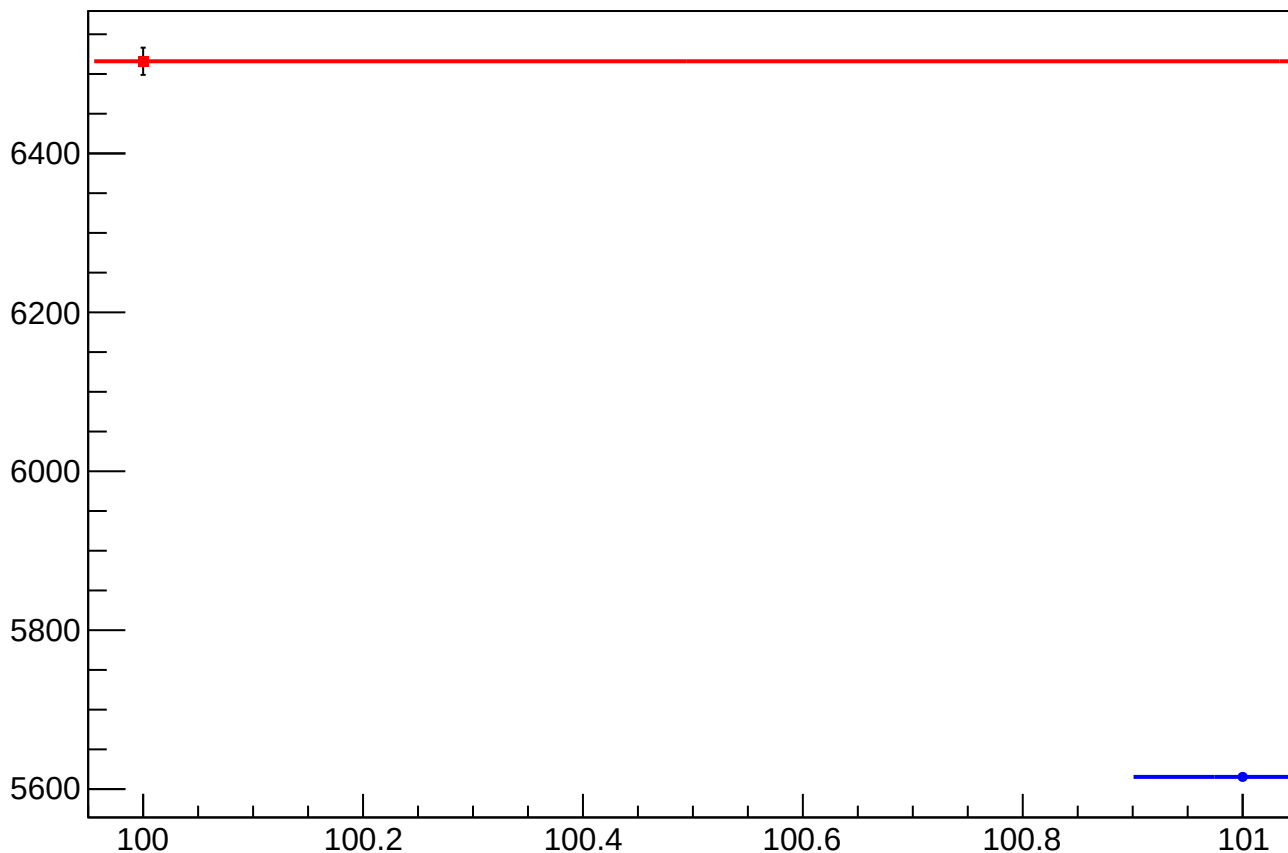
Right: 14429.949 $\pm$ 6666.871  $\chi^2$ /NDF: 0.3/1

In: 13330.110 $\pm$ 6935.038  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 14429.949 $\pm$ 6666.871  $\chi^2$ /NDF: 0.3/1

dit\_asym\_usr\_atr1\_avg\_rms vs Slug, Sign Corrected



Right In: 5615.353+/-4.904  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6516.006+/-17.118  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

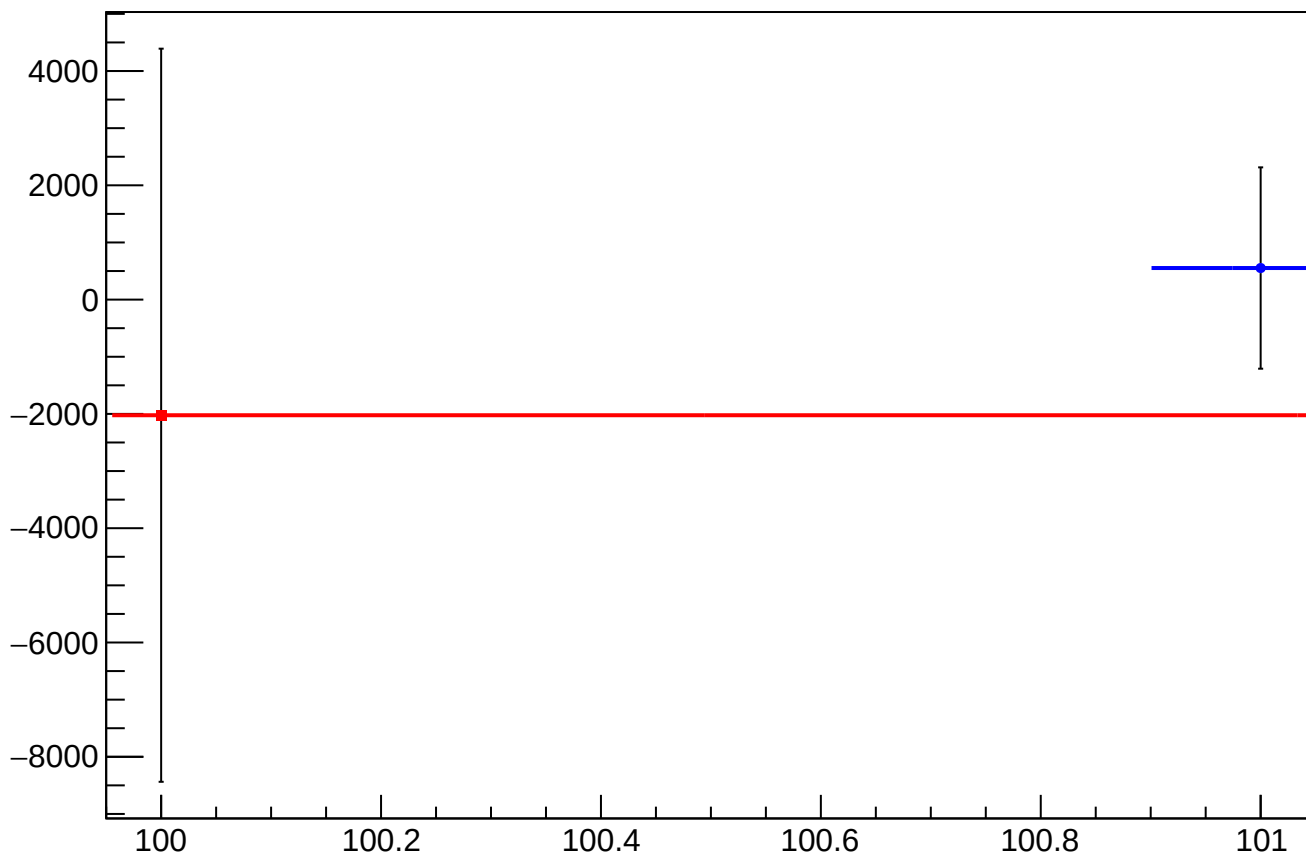
Right: 5683.660+/-4.714  $\chi^2/\text{NDF}$ : 2558.3/1

In: 5615.353+/-4.904  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5683.660+/-4.714  $\chi^2/\text{NDF}$ : 2558.3/1

asym\_usr\_atr1\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 552.666+/-1761.572  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2023.242+/-6414.237  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

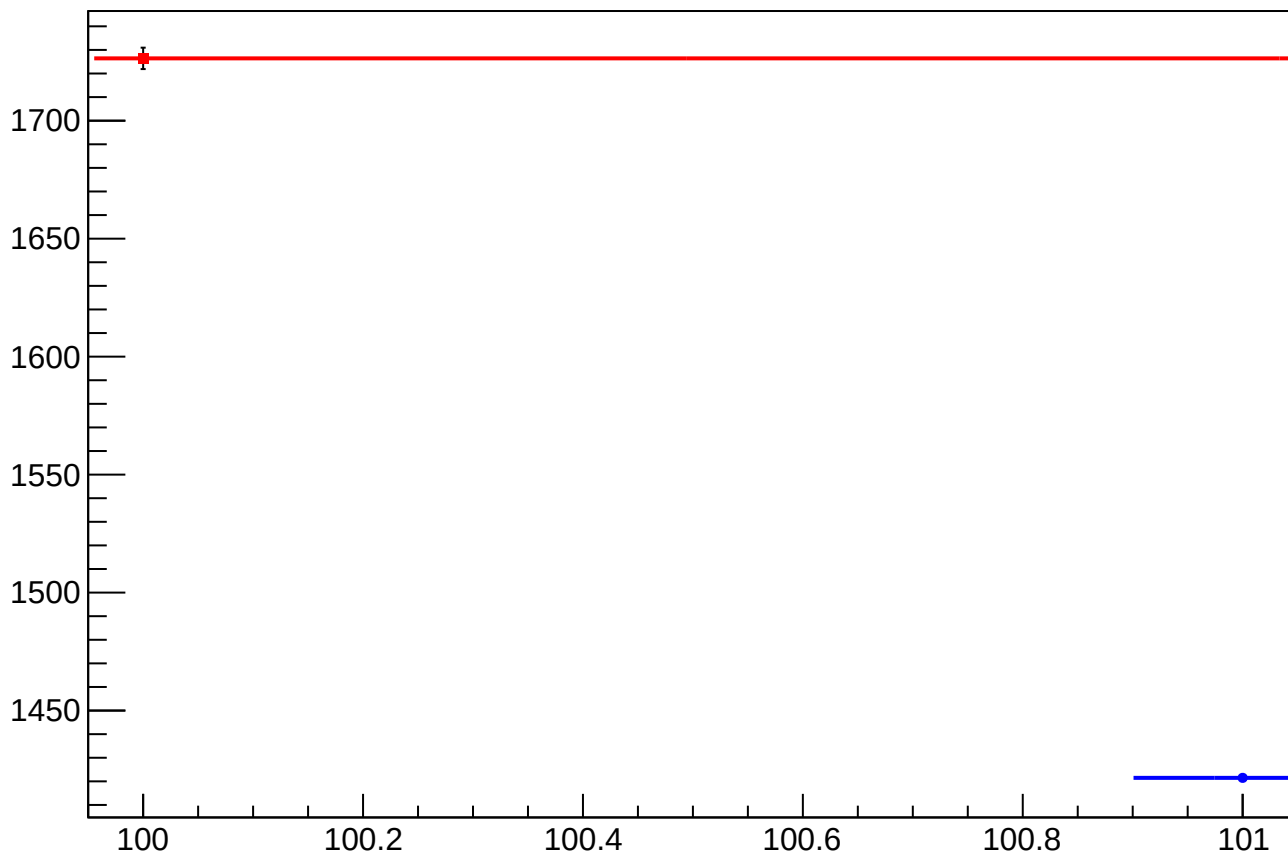
Right: 372.006+/-1698.676  $\chi^2/\text{NDF}$ : 0.1/1

In: 552.666+/-1761.572  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 372.006+/-1698.676  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr1\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1421.480+/-1.246  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1726.414+/-4.536  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

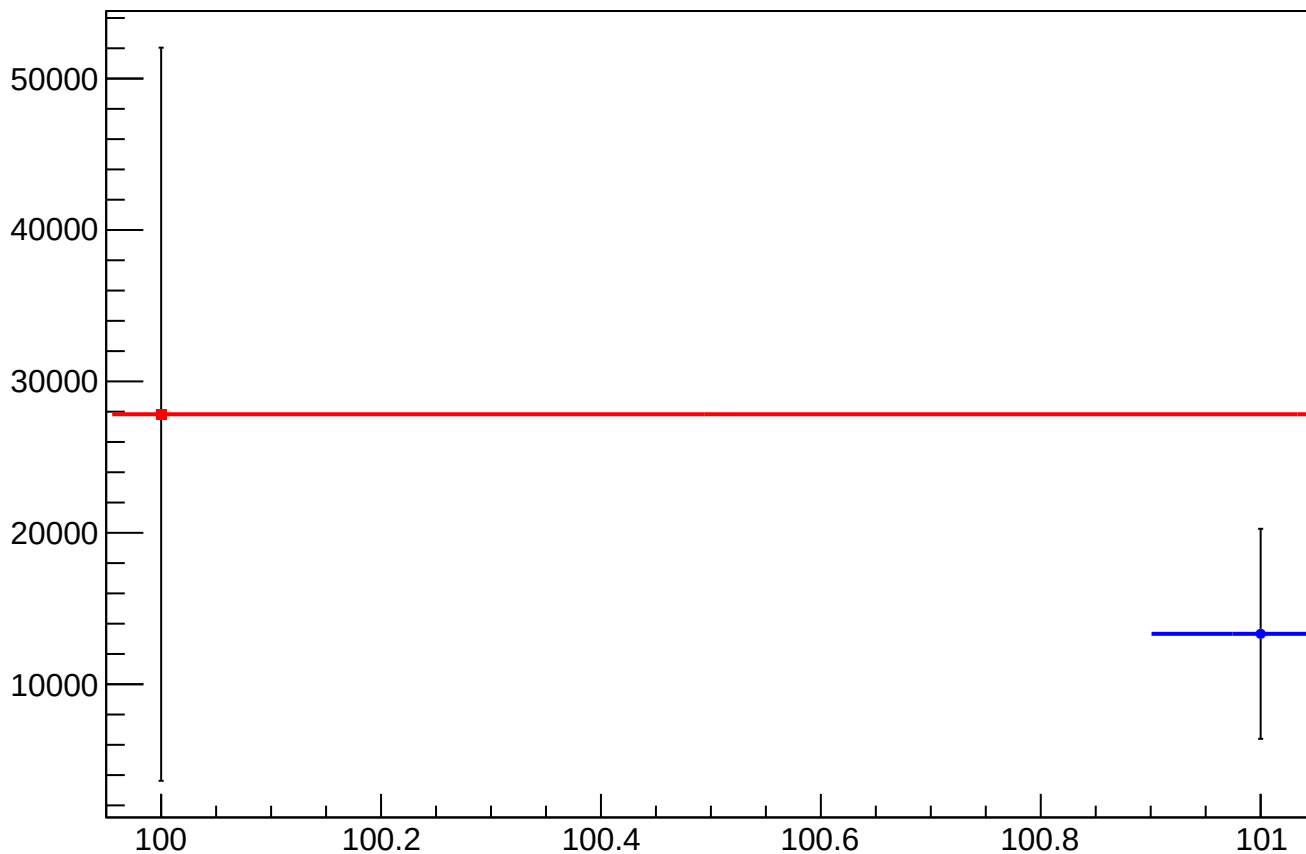
Right: 1442.866+/-1.201  $\chi^2/\text{NDF}$ : 4203.1/1

In: 1421.480+/-1.246  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1442.866+/-1.201  $\chi^2/\text{NDF}$ : 4203.1/1

eigen\_dit\_asym\_usr\_atr1\_avg\_mean vs Slug, Sign Corrected



Right In: 13330.110 $\pm$ 6935.038  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 27831.937 $\pm$ 24208.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

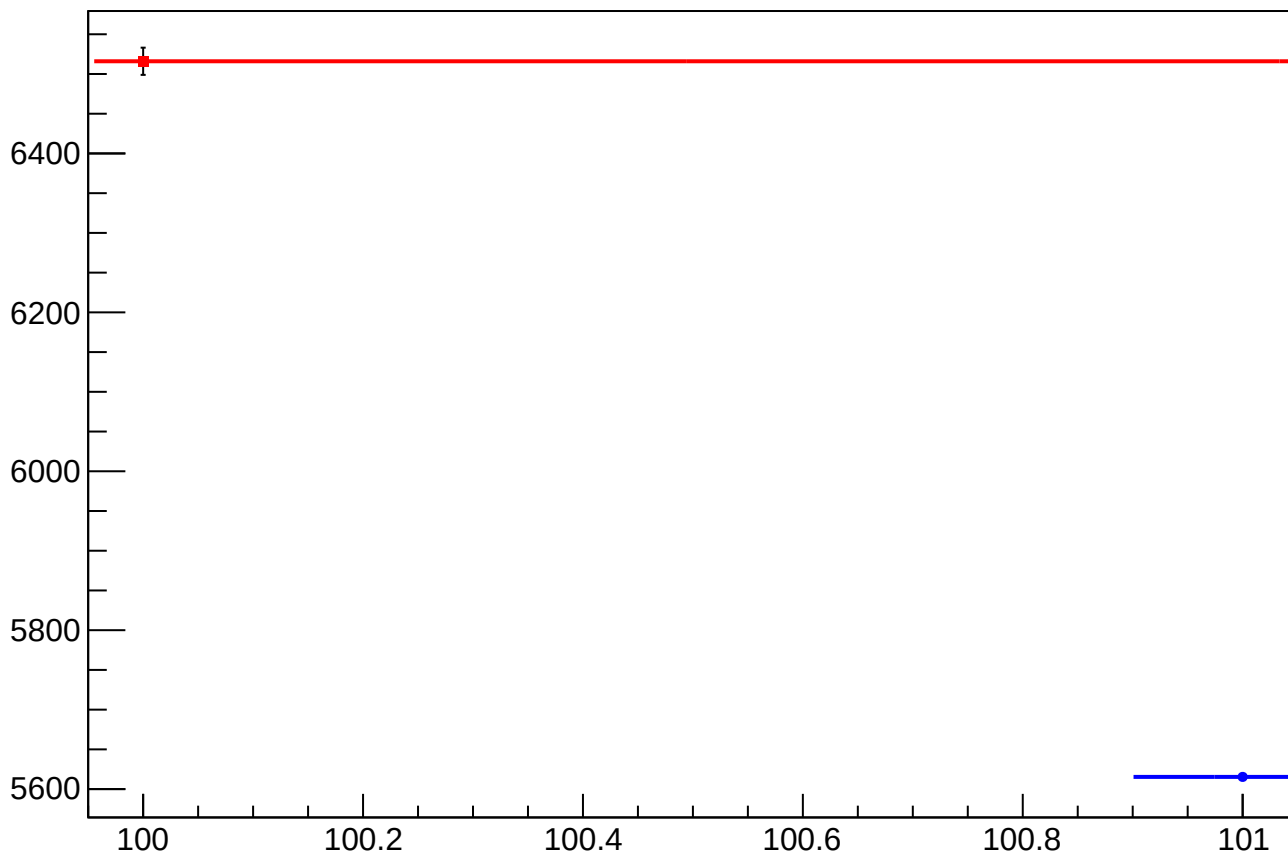
Right: 14429.948 $\pm$ 6666.871  $\chi^2$ /NDF: 0.3/1

In: 13330.110 $\pm$ 6935.038  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 14429.948 $\pm$ 6666.871  $\chi^2$ /NDF: 0.3/1

eigen\_dit\_asym\_usr\_atr1\_avg\_rms vs Slug, Sign Corrected



Right In: 5615.353+/-4.904  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6516.006+/-17.118  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

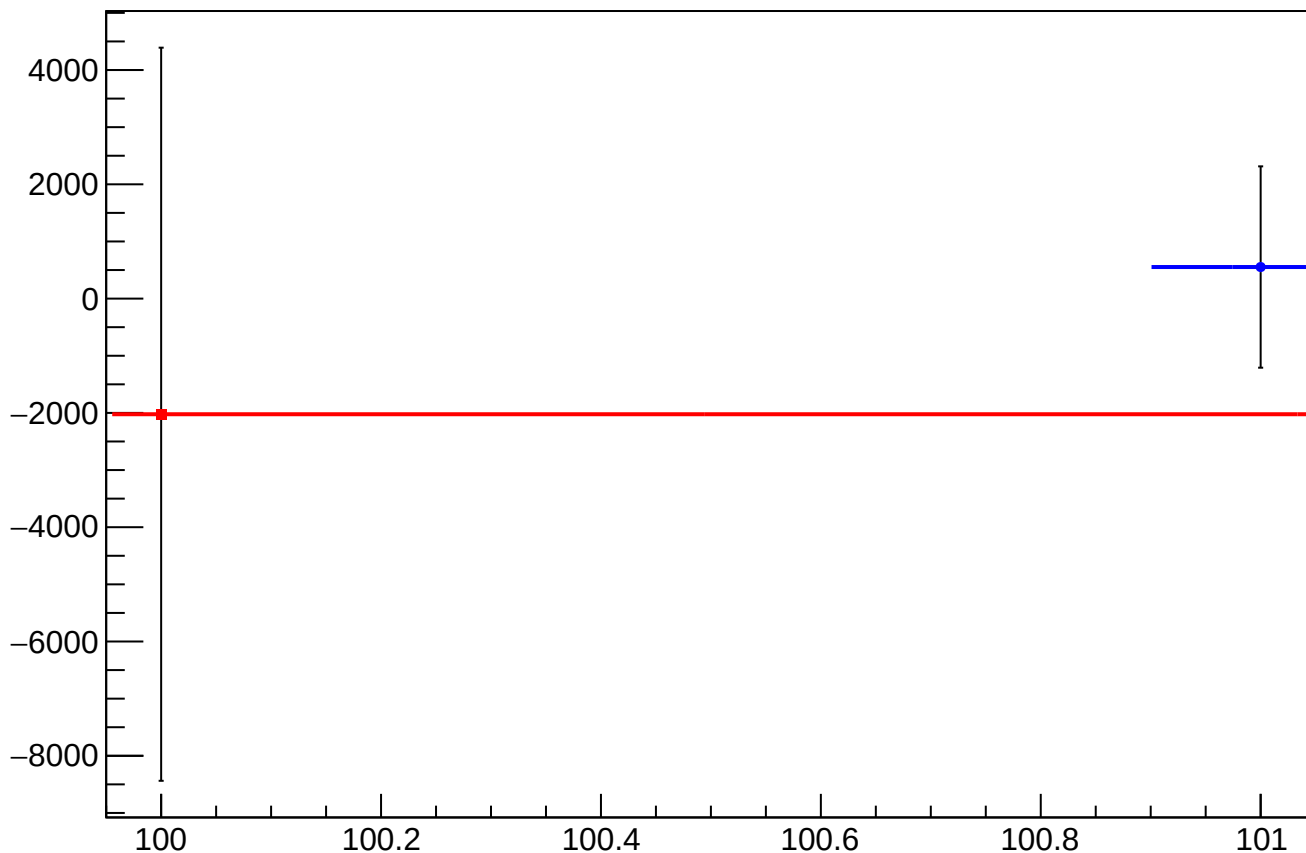
Right: 5683.660+/-4.714  $\chi^2/\text{NDF}$ : 2558.3/1

In: 5615.353+/-4.904  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5683.660+/-4.714  $\chi^2/\text{NDF}$ : 2558.3/1

asym\_usr\_atr1\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 552.666+/-1761.570  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2023.250+/-6414.234  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

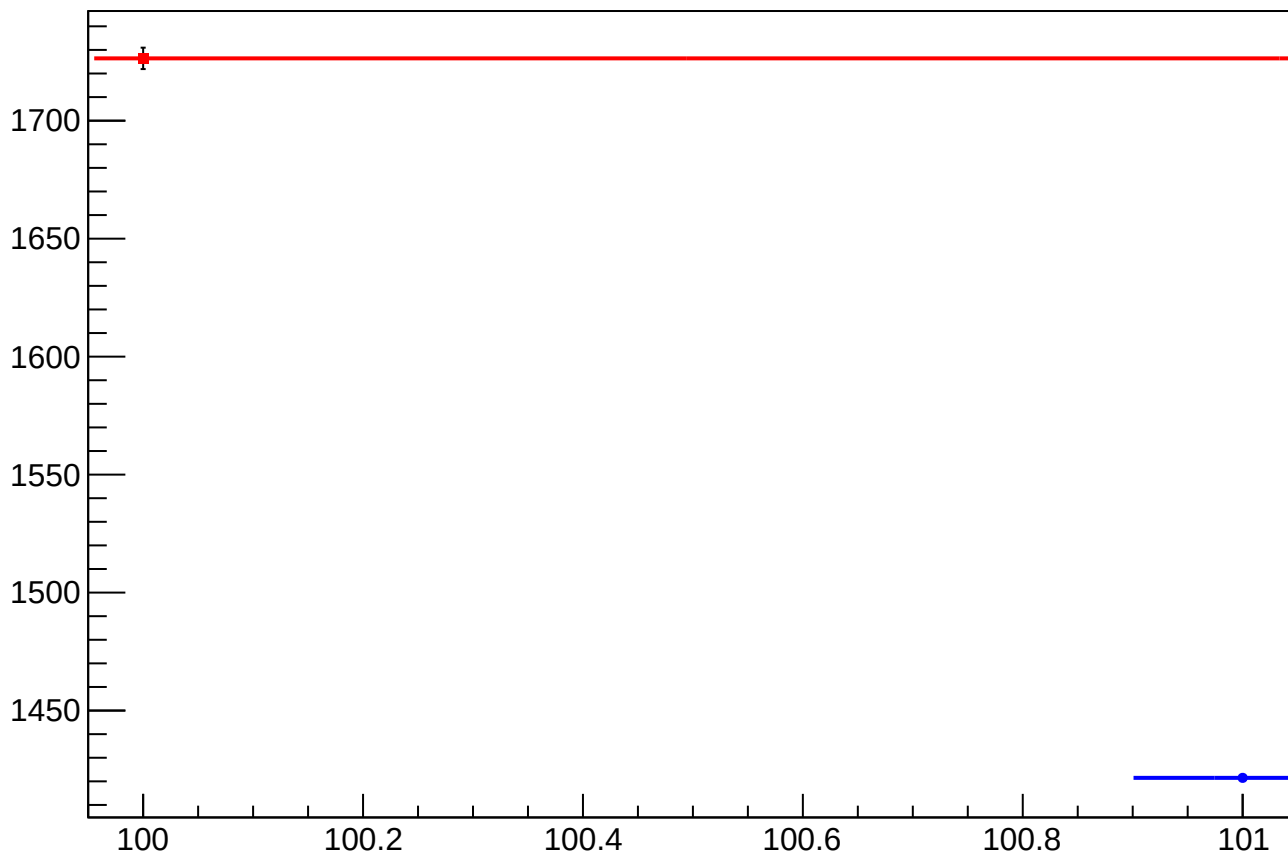
Right: 372.006+/-1698.674  $\chi^2/\text{NDF}$ : 0.1/1

In: 552.666+/-1761.570  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 372.006+/-1698.674  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr1\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1421.479+/-1.246  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1726.413+/-4.536  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1442.865+/-1.201  $\chi^2/\text{NDF}$ : 4203.1/1

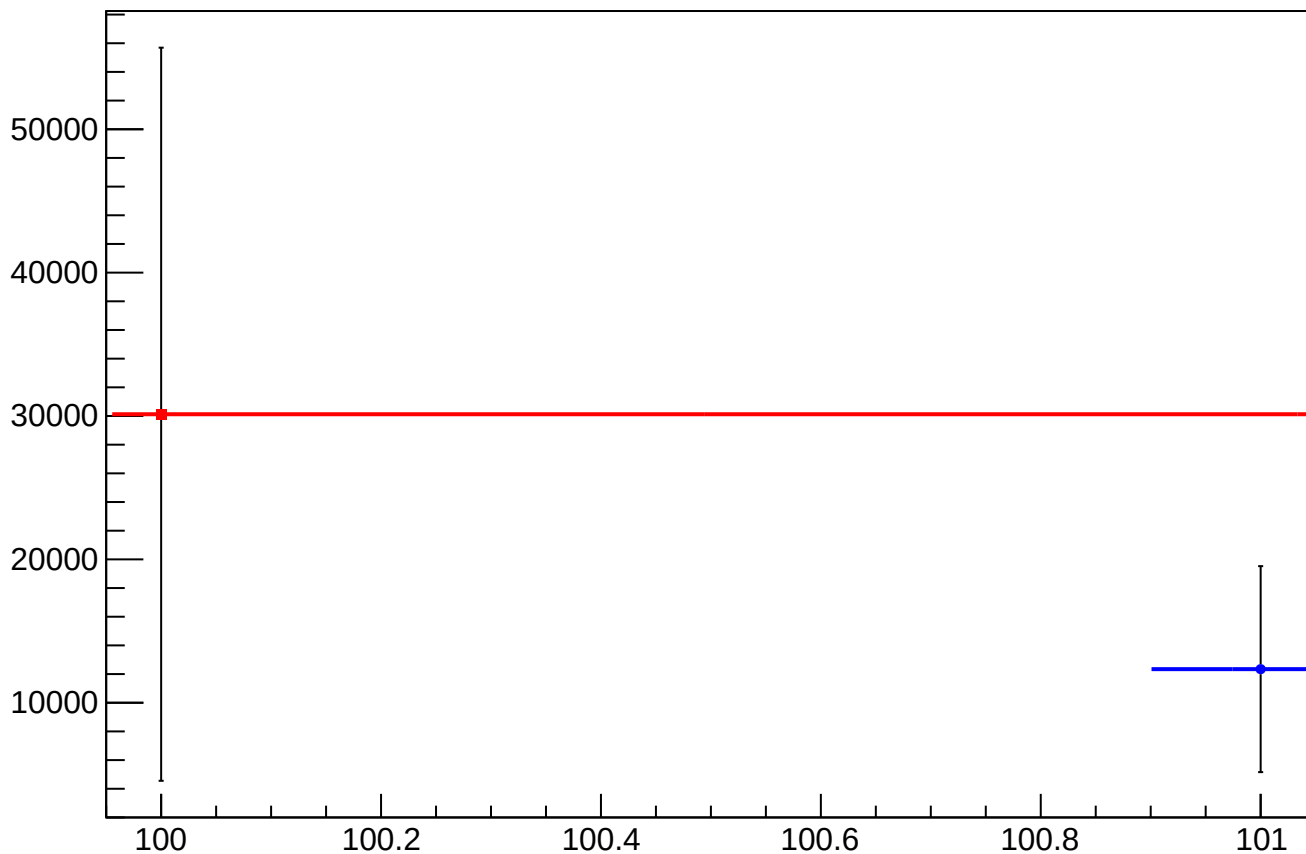
In: 1421.479+/-1.246  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1442.865+/-1.201  $\chi^2/\text{NDF}$ : 4203.1/1



asym\_usr\_atr1\_avg\_mean vs Slug, Sign Corrected



Right In: 12343.581+/-7183.843  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30123.236+/-25567.507  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

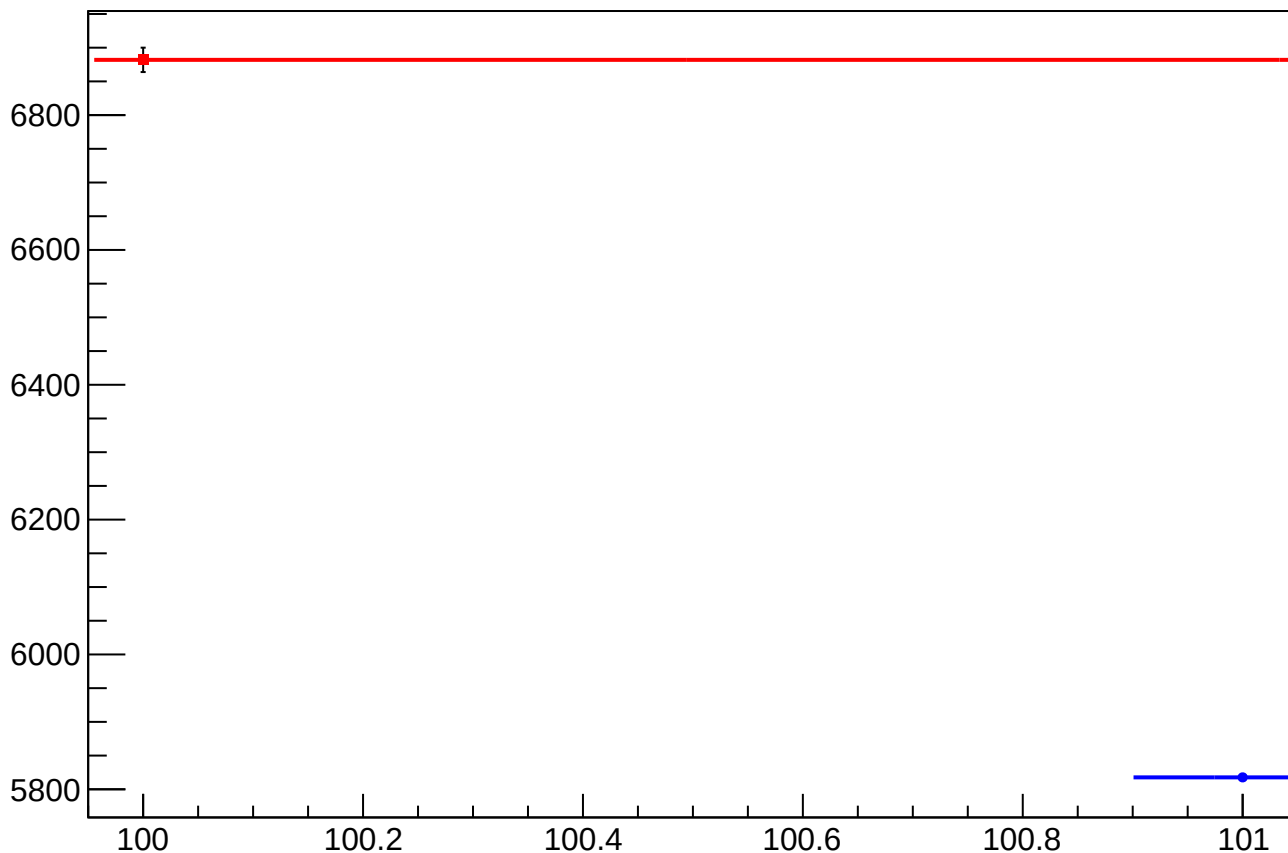
Right: 13644.529+/-6916.028  $\chi^2/\text{NDF}$ : 0.4/1

In: 12343.581+/-7183.843  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13644.529+/-6916.028  $\chi^2/\text{NDF}$ : 0.4/1

# asym\_usr\_atr1\_avg\_rms vs Slug, Sign Corrected



Right In: 5817.680 $\pm$ 5.080  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6881.941 $\pm$ 18.079  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

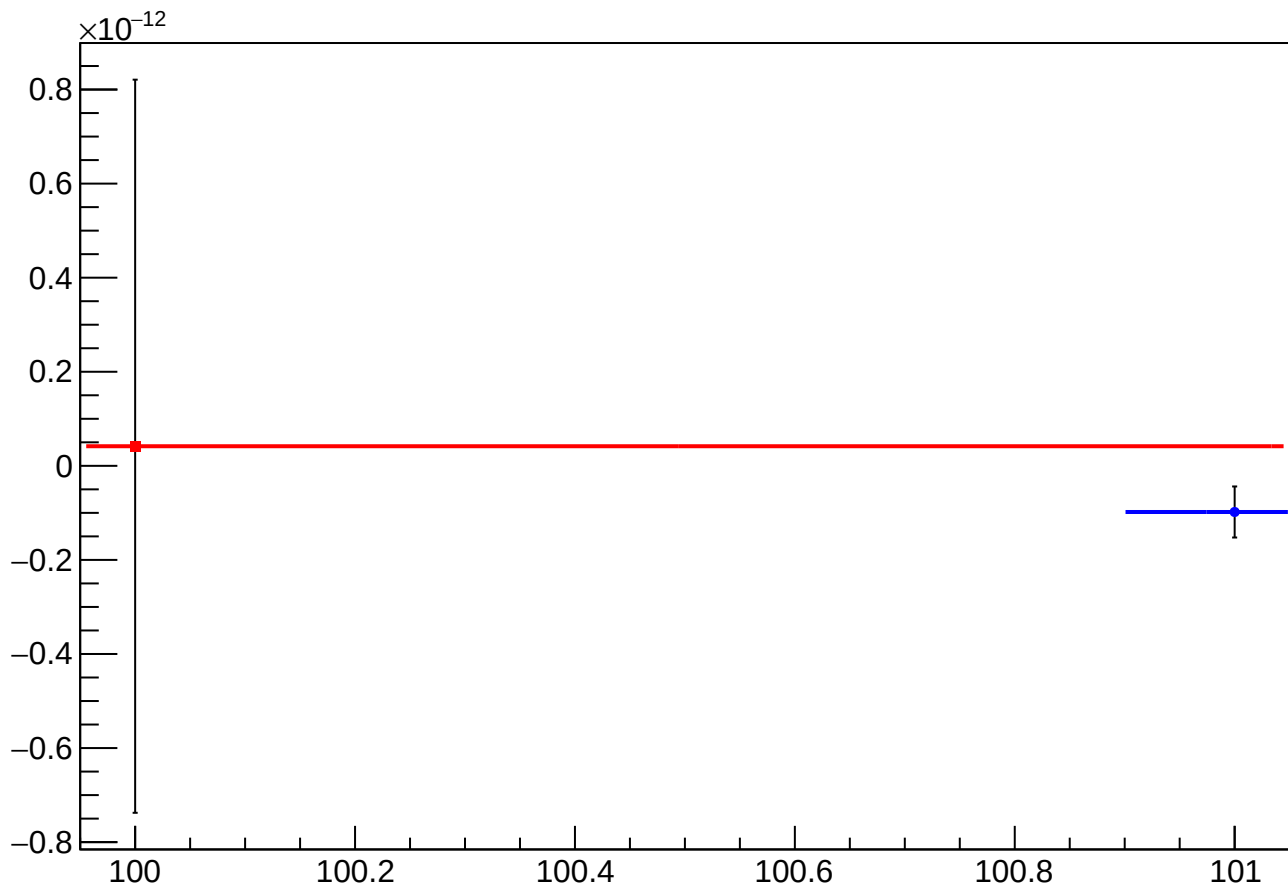
Right: 5895.553 $\pm$ 4.890  $\chi^2$ /NDF: 3211.8/1

In: 5817.680 $\pm$ 5.080  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5895.553 $\pm$ 4.890  $\chi^2$ /NDF: 3211.8/1

asym\_usr\_atr1\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

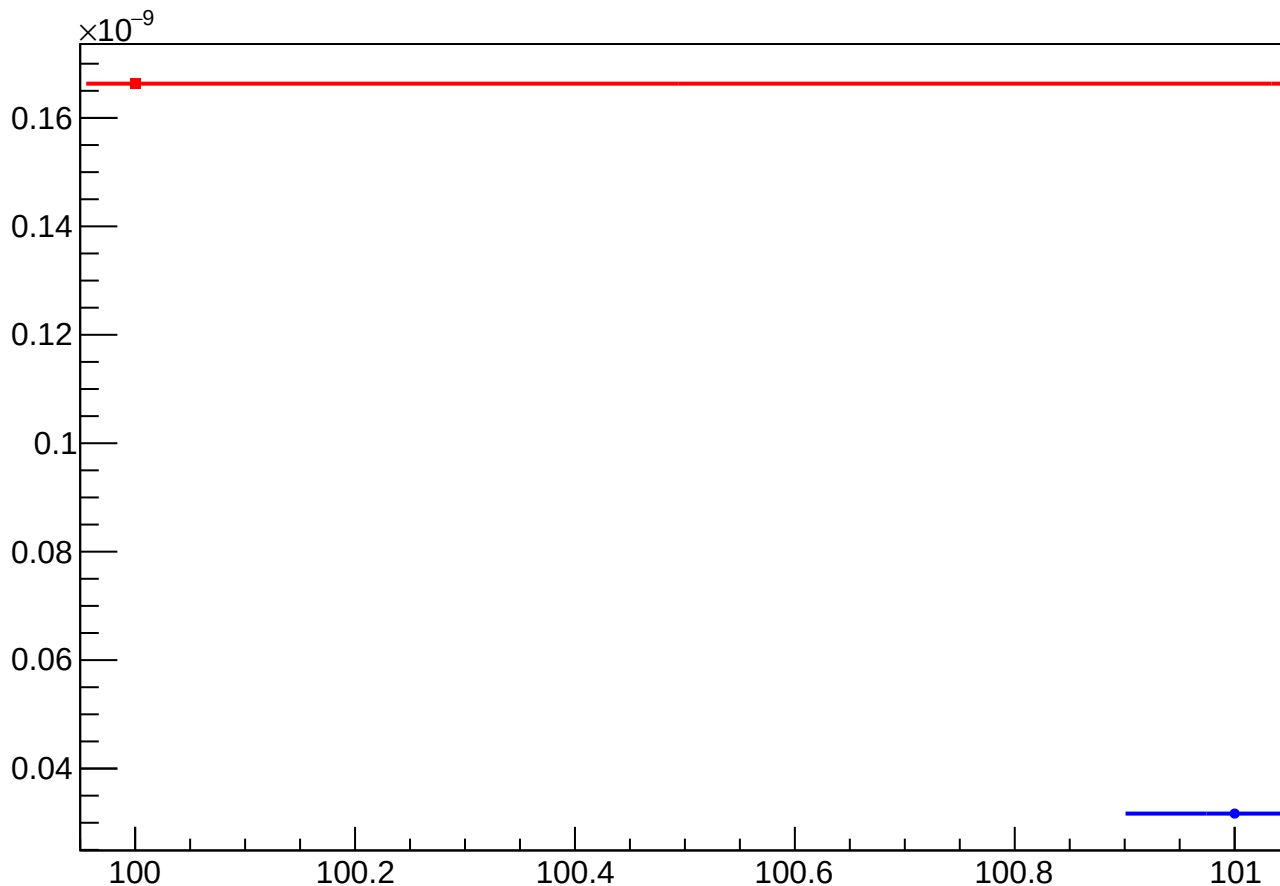
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usr\_atr1\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

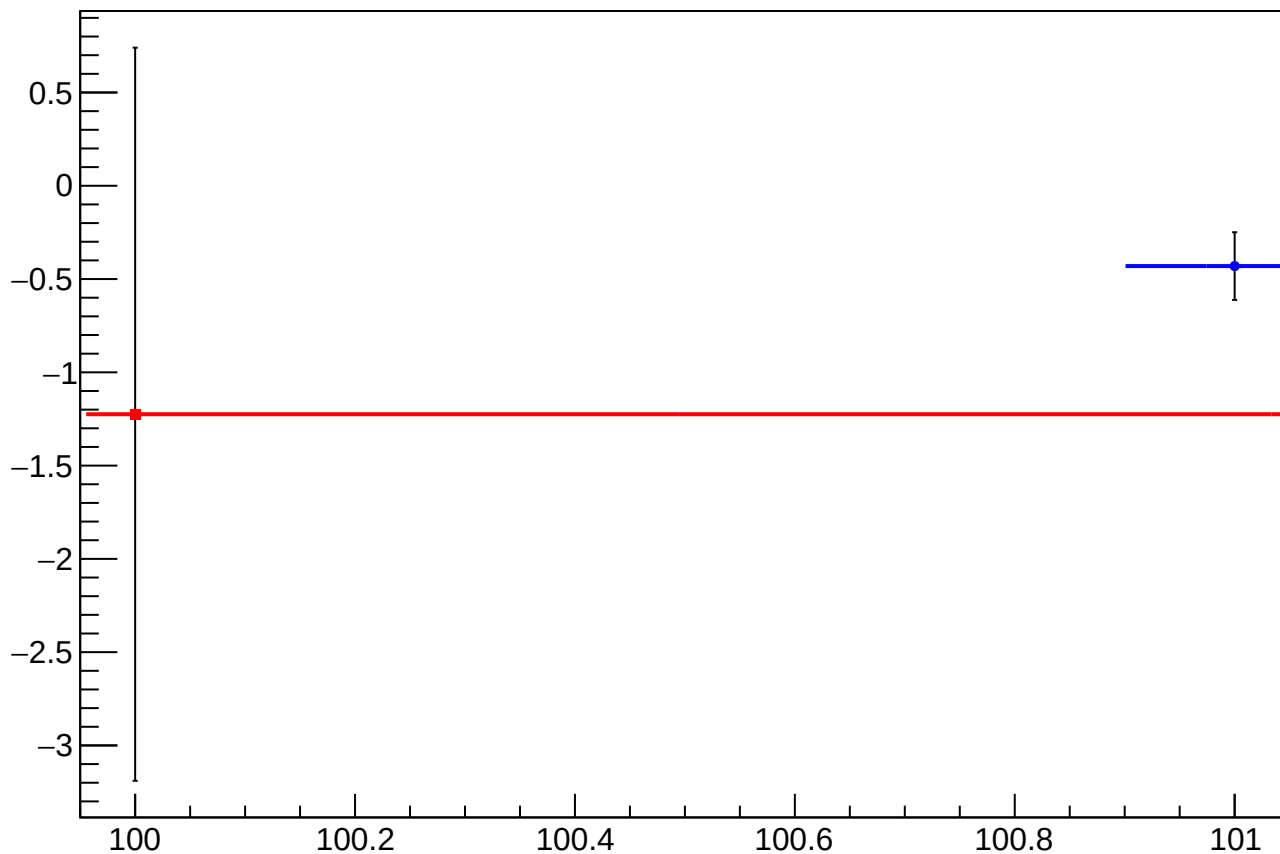
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59401.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59401.5/1

asym\_usr\_atr1\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.430 $\pm$ 0.181  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.225 $\pm$ 1.965  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

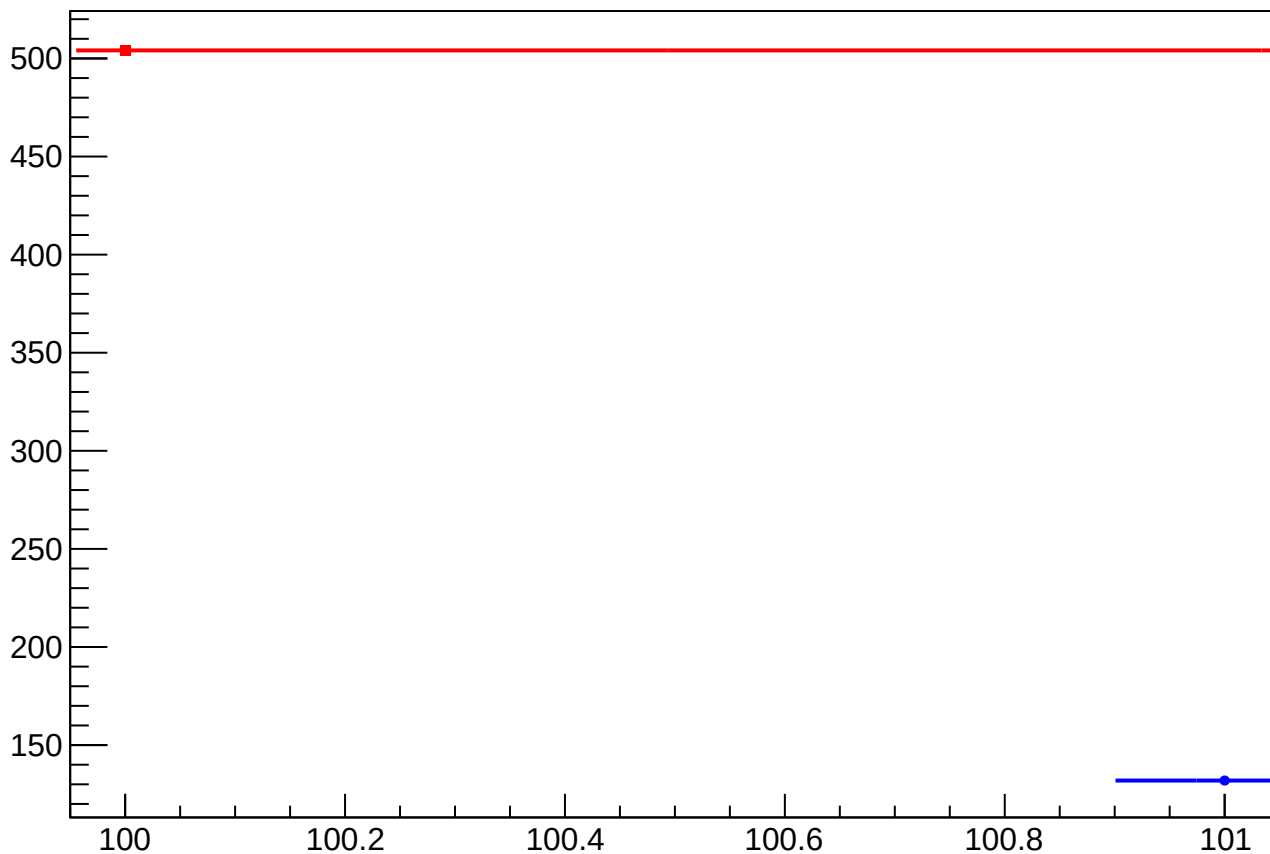
Right: -0.437 $\pm$ 0.181  $\chi^2$ /NDF: 0.2/1

In: -0.430 $\pm$ 0.181  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.437 $\pm$ 0.181  $\chi^2$ /NDF: 0.2/1

asym\_usr\_atr1\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 131.928 $\pm$ 0.128  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 504.098 $\pm$ 1.389  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

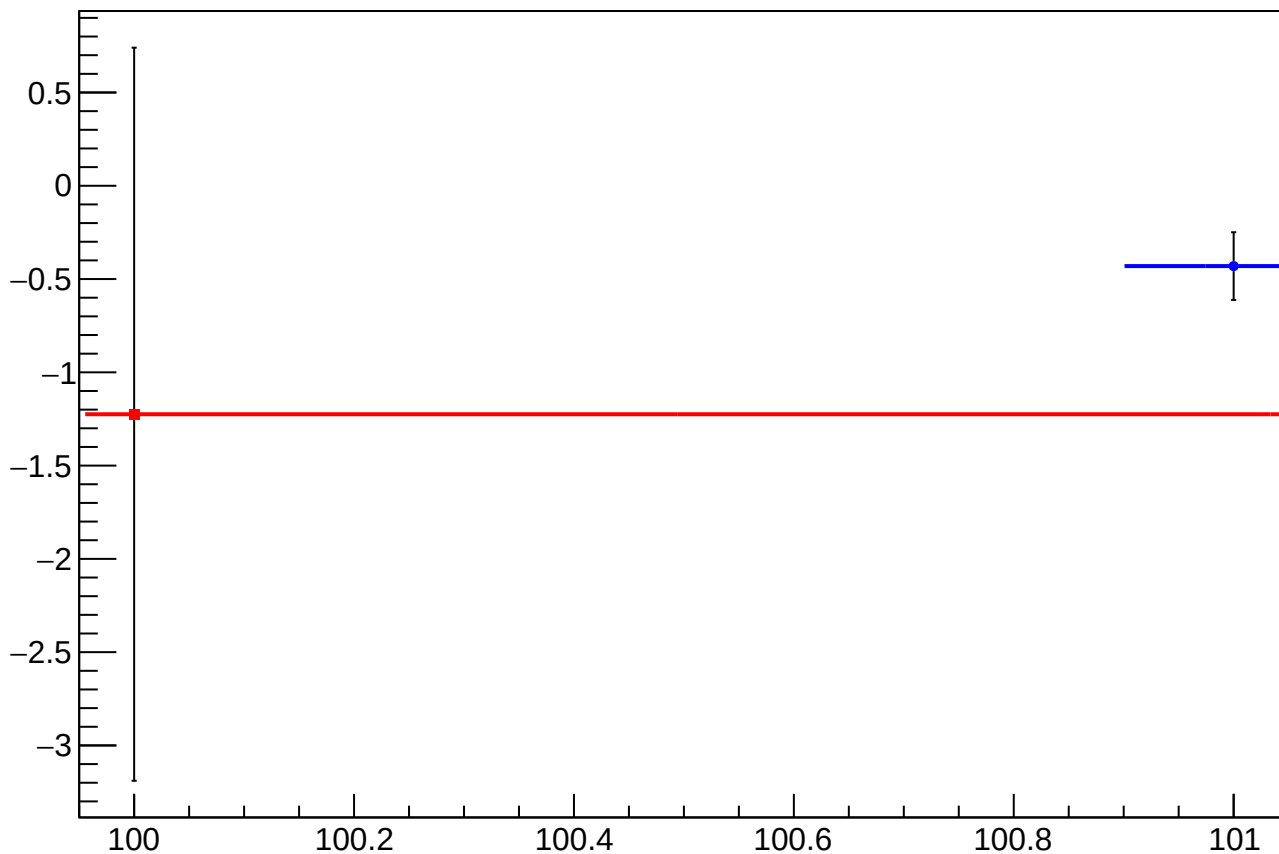
Right: 135.072 $\pm$ 0.128  $\chi^2$ /NDF: 71144.1/1

In: 131.928 $\pm$ 0.128  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.072 $\pm$ 0.128  $\chi^2$ /NDF: 71144.1/1

asym\_usr\_atr1\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.430 $\pm$ 0.181  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.225 $\pm$ 1.965  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

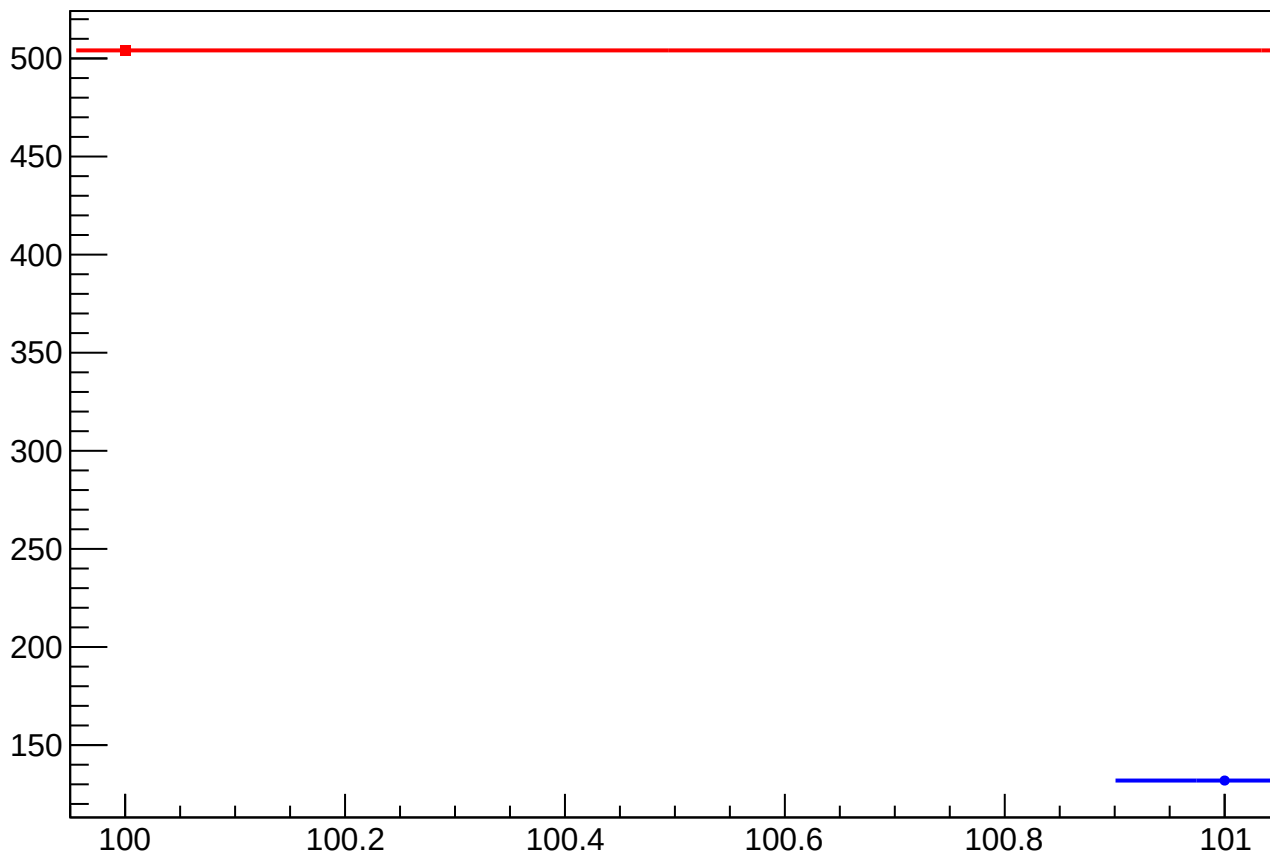
Right: -0.437 $\pm$ 0.181  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.430 $\pm$ 0.181  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.437 $\pm$ 0.181  $\chi^2/\text{NDF}$ : 0.2/1

asym\_usr\_atr1\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 131.928 $\pm$ 0.128  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 504.098 $\pm$ 1.389  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 135.072 $\pm$ 0.128  $\chi^2/\text{NDF}$ : 71144.1/1

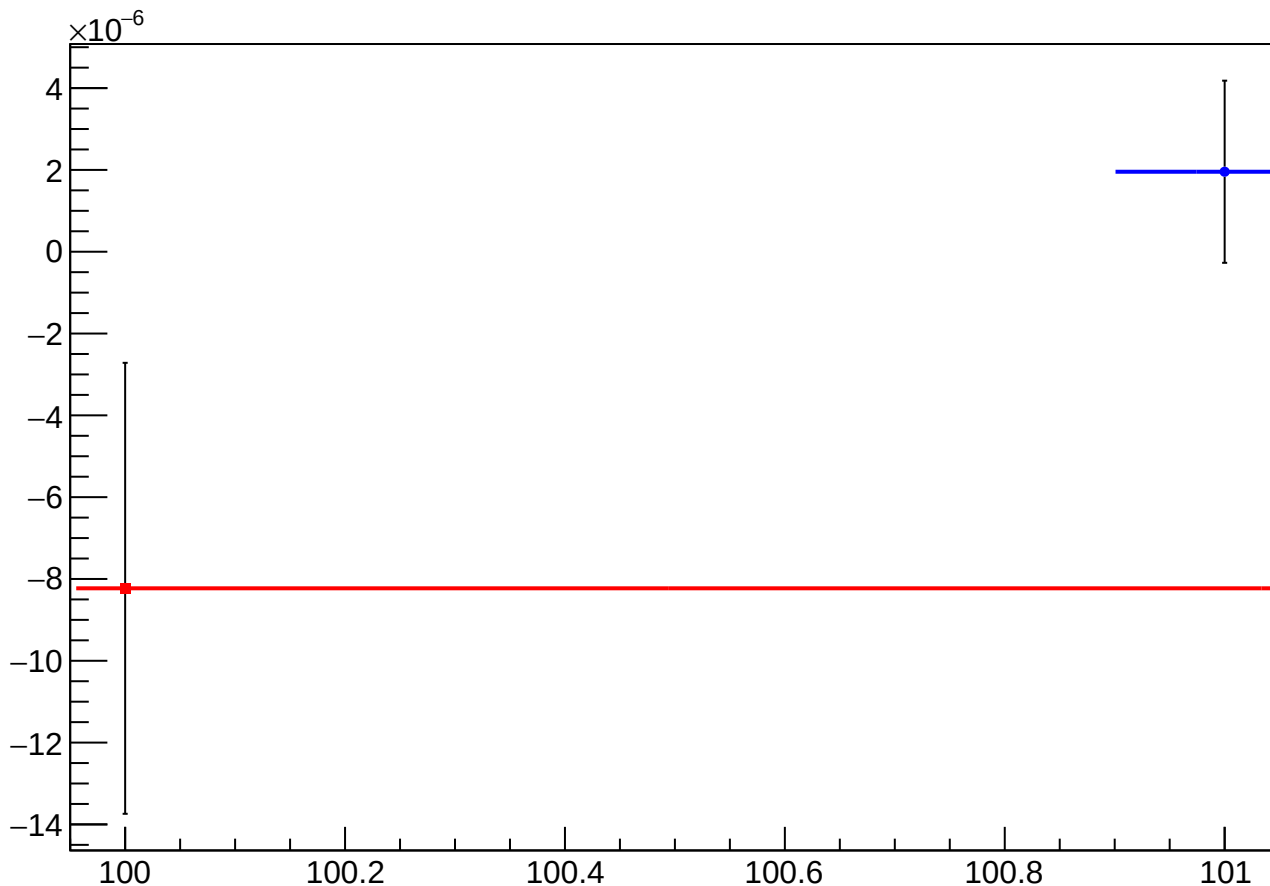
In: 131.928 $\pm$ 0.128  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135.072 $\pm$ 0.128  $\chi^2/\text{NDF}$ : 71144.1/1



asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

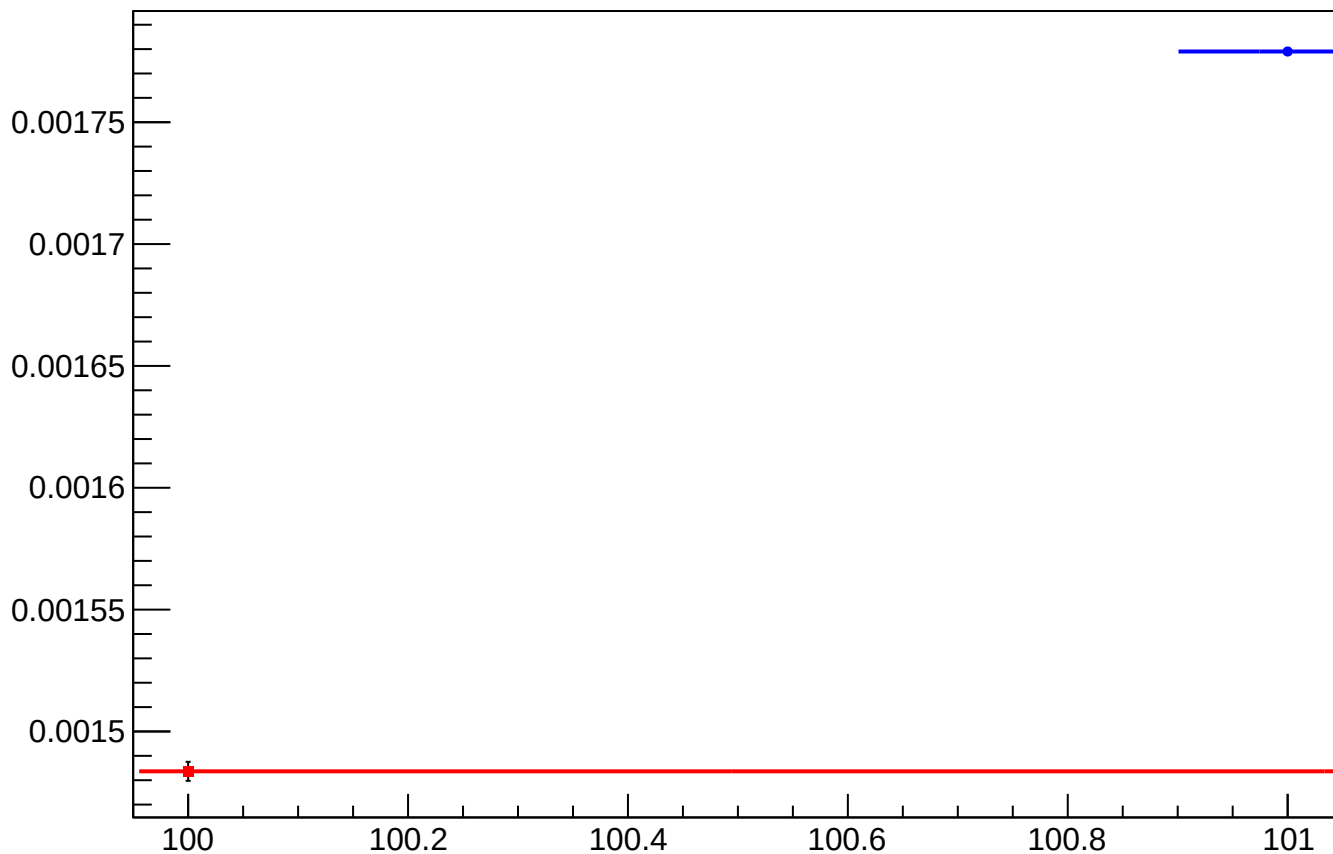
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/1

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

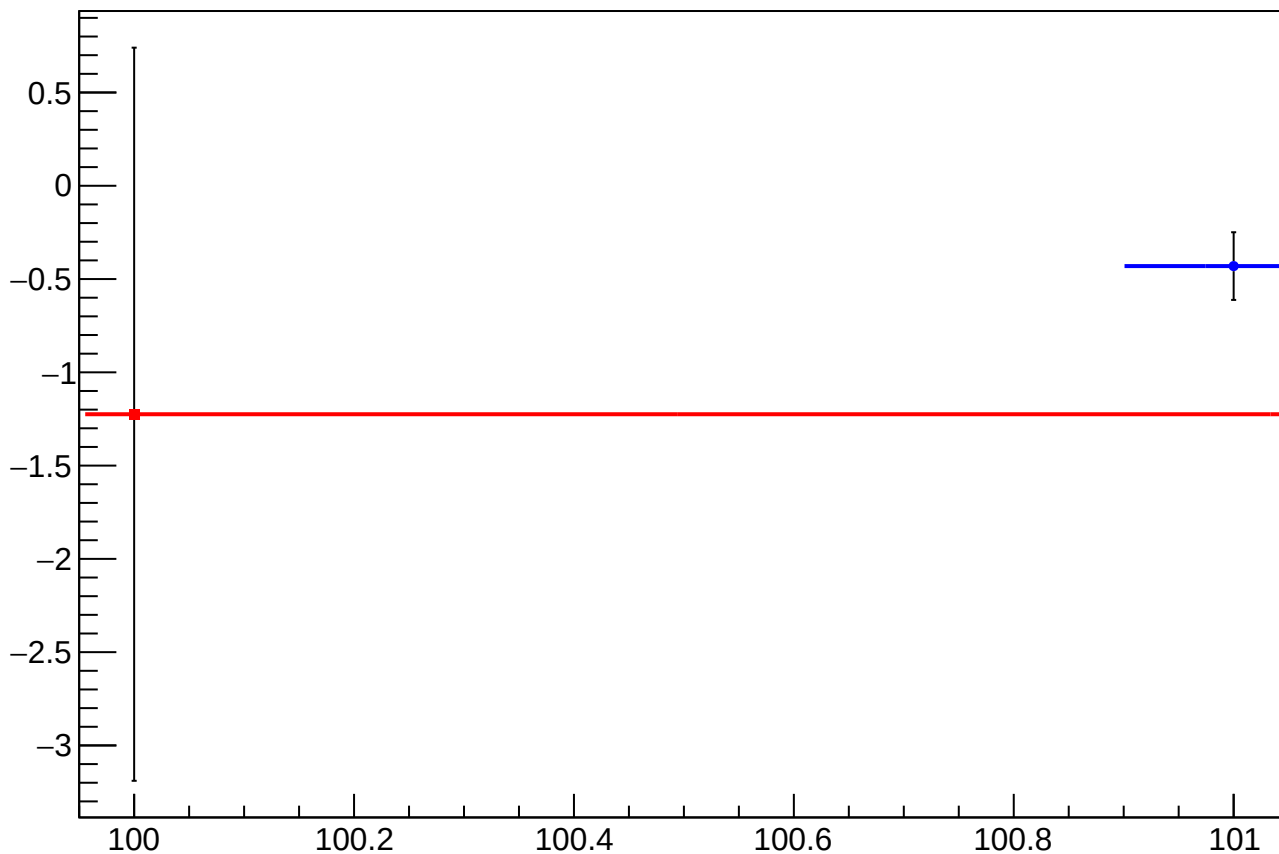
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 4936.7/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 4936.7/1

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.430+/-0.181  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.225+/-1.965  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

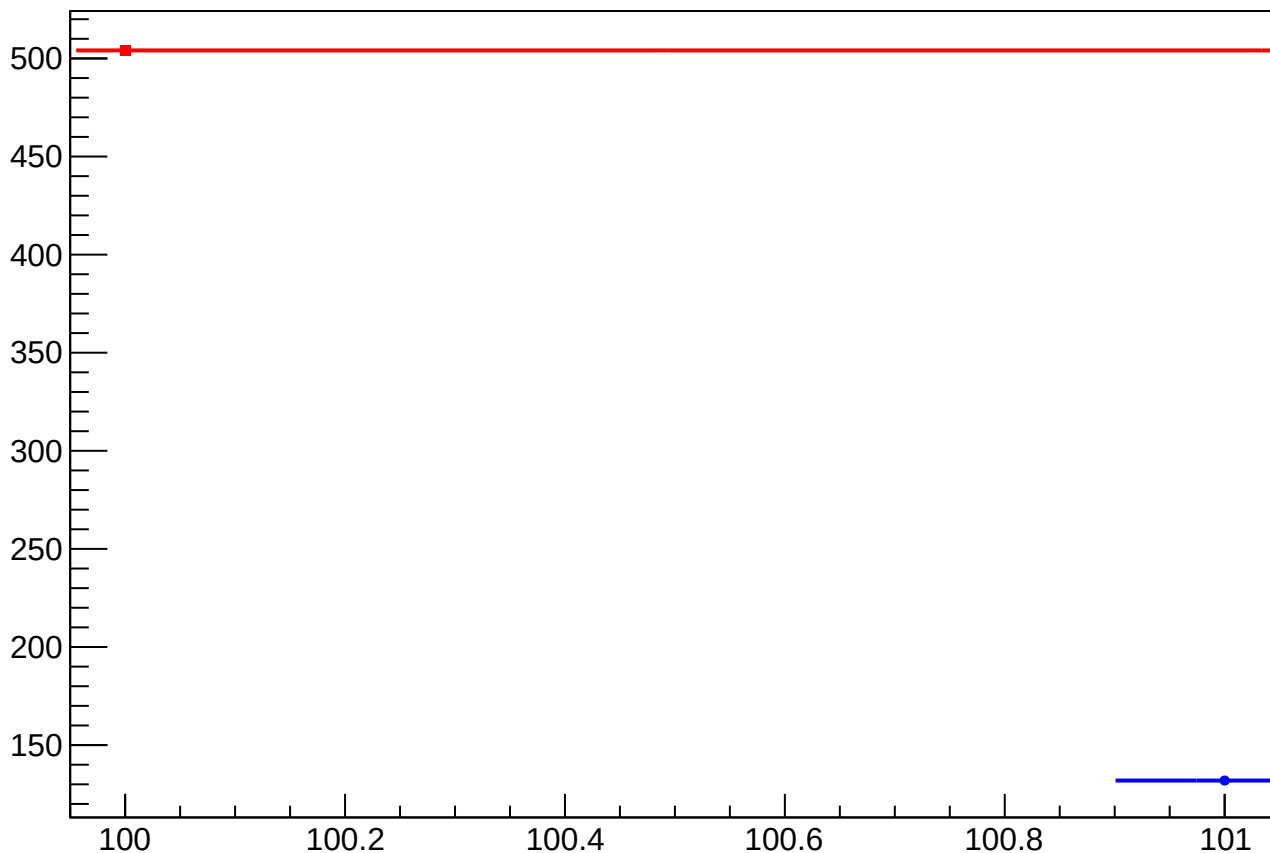
Right: -0.437+/-0.181  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.430+/-0.181  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.437+/-0.181  $\chi^2/\text{NDF}$ : 0.2/1

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 131.929+/-0.128  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 504.099+/-1.389  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

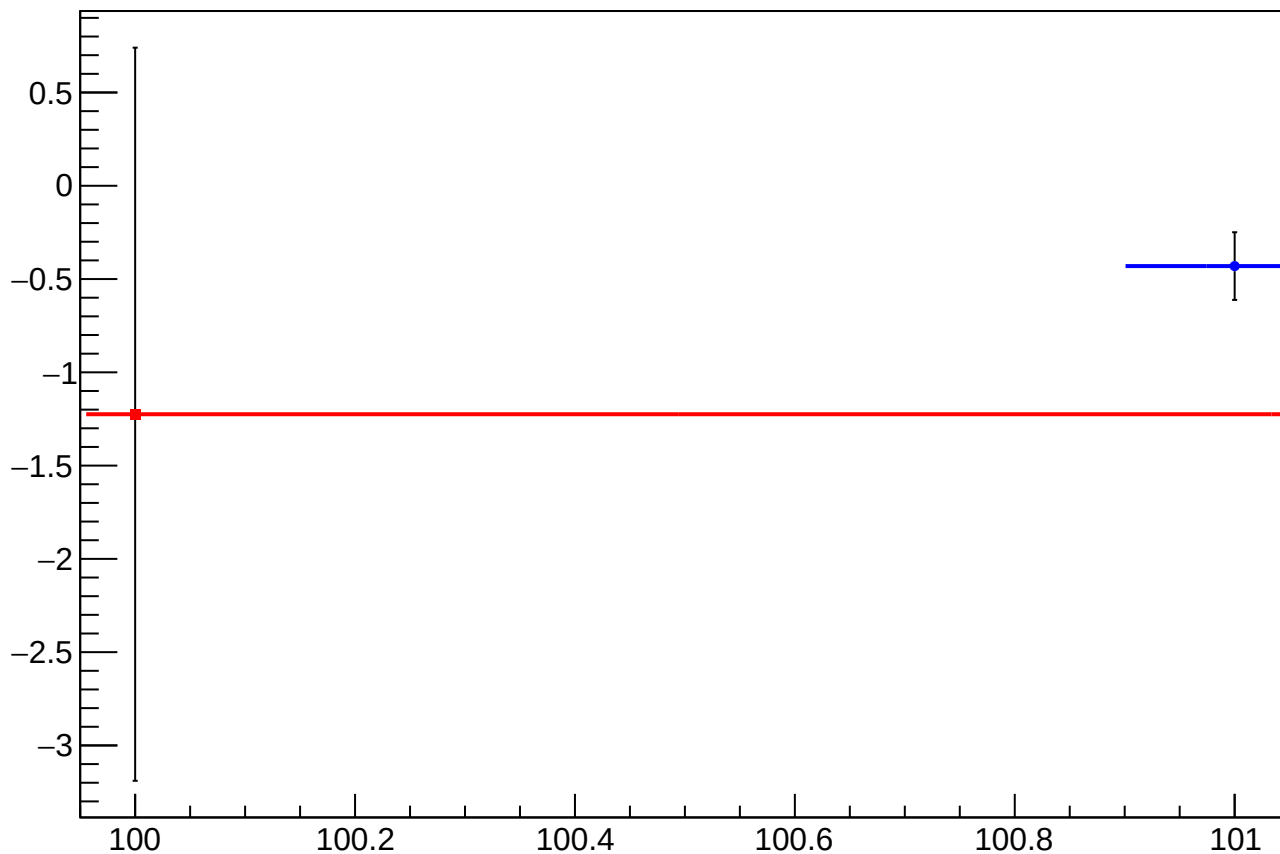
Right: 135.073+/-0.128  $\chi^2/\text{NDF}$ : 71144.0/1

In: 131.929+/-0.128  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135.073+/-0.128  $\chi^2/\text{NDF}$ : 71144.0/1

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.430+/-0.181  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.225+/-1.965  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

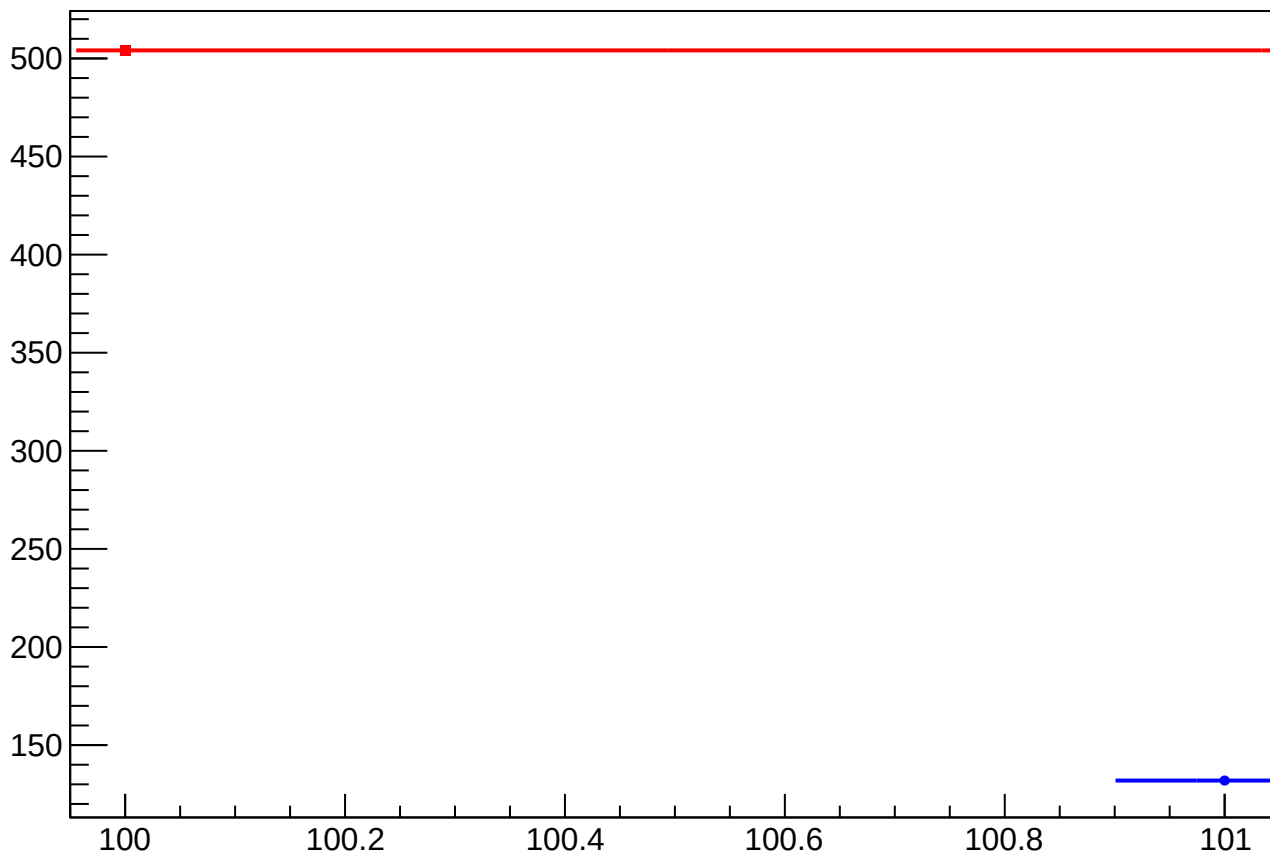
Right: -0.437+/-0.181  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.430+/-0.181  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.437+/-0.181  $\chi^2/\text{NDF}$ : 0.2/1

asym\_usr\_atr1\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 131.929+/-0.128  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 504.099+/-1.389  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

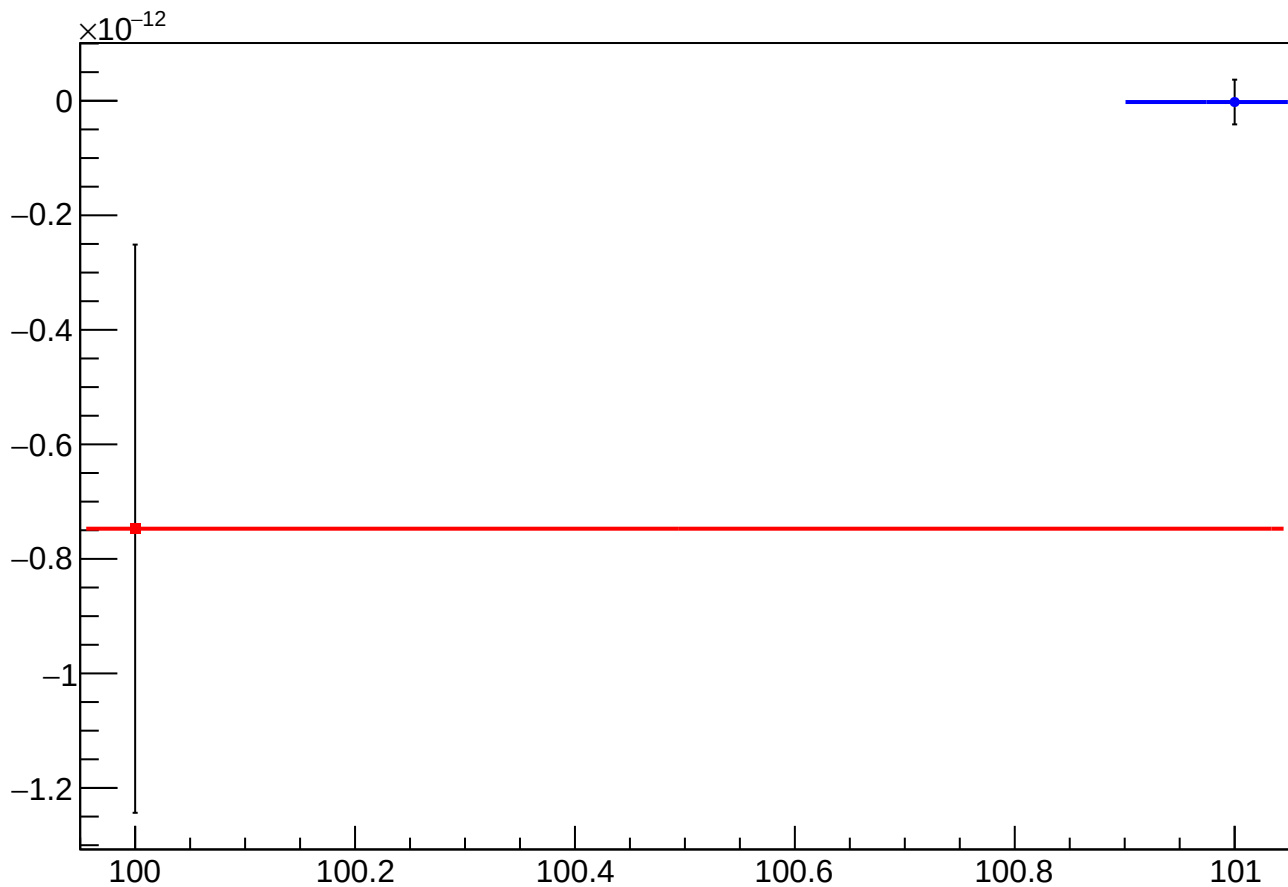
Right: 135.073+/-0.128  $\chi^2/\text{NDF}$ : 71144.0/1

In: 131.929+/-0.128  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135.073+/-0.128  $\chi^2/\text{NDF}$ : 71144.0/1

asym\_usr\_atr1\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

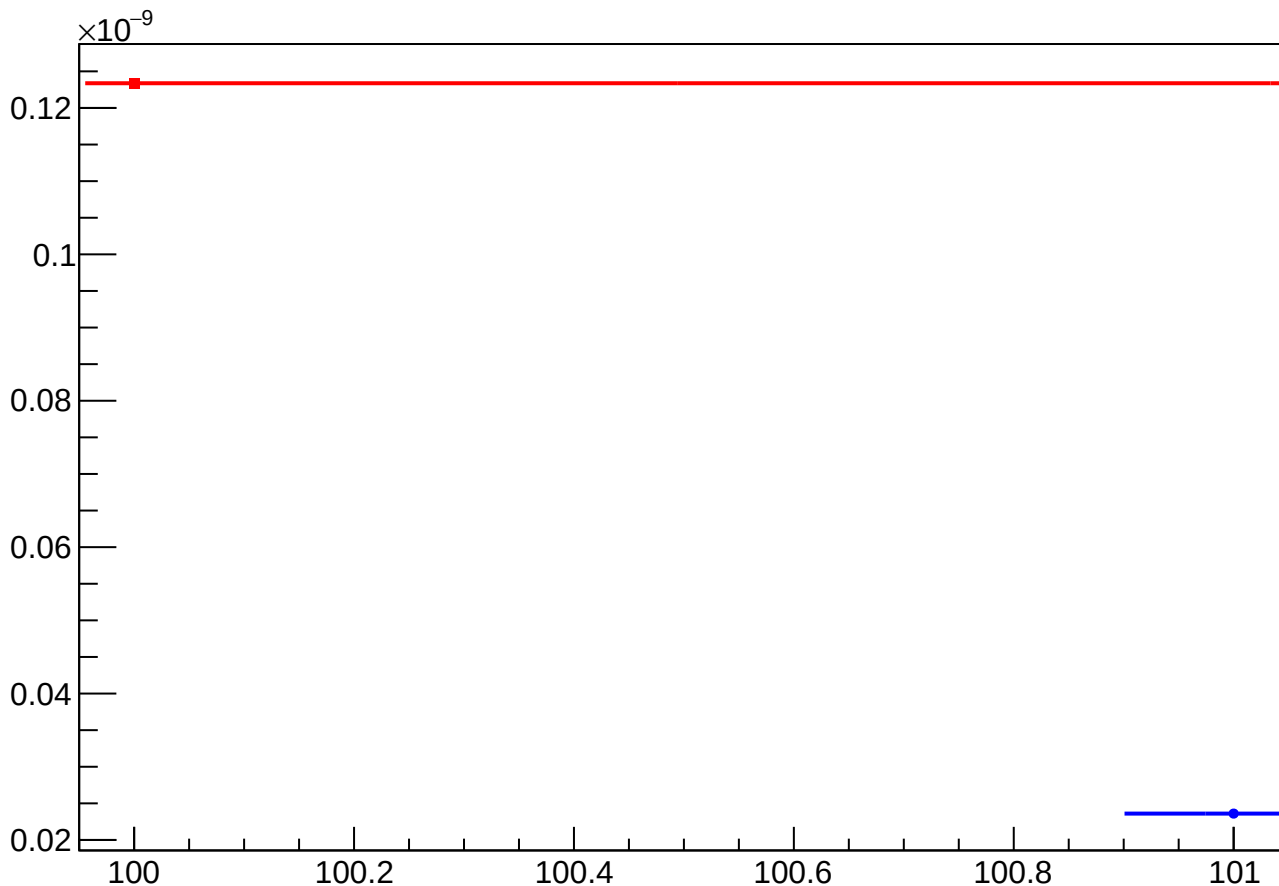
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

asym\_usr\_atr1\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 80388.1/1

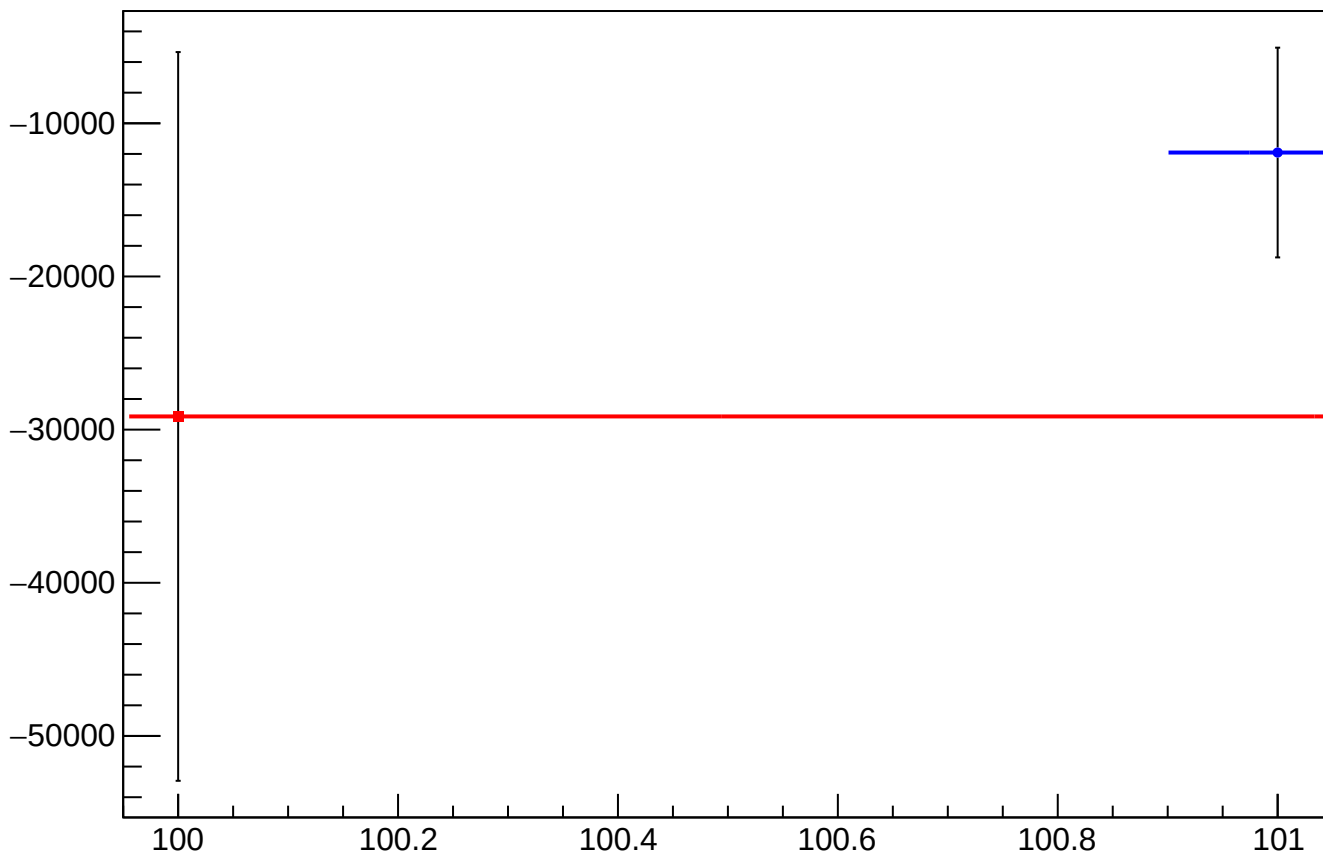
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 80388.1/1



reg\_asym\_usr\_atr1\_dd\_mean vs Slug, Sign Corrected



Right In: -11909.042+/-6846.981  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -29138.611+/-23789.582  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

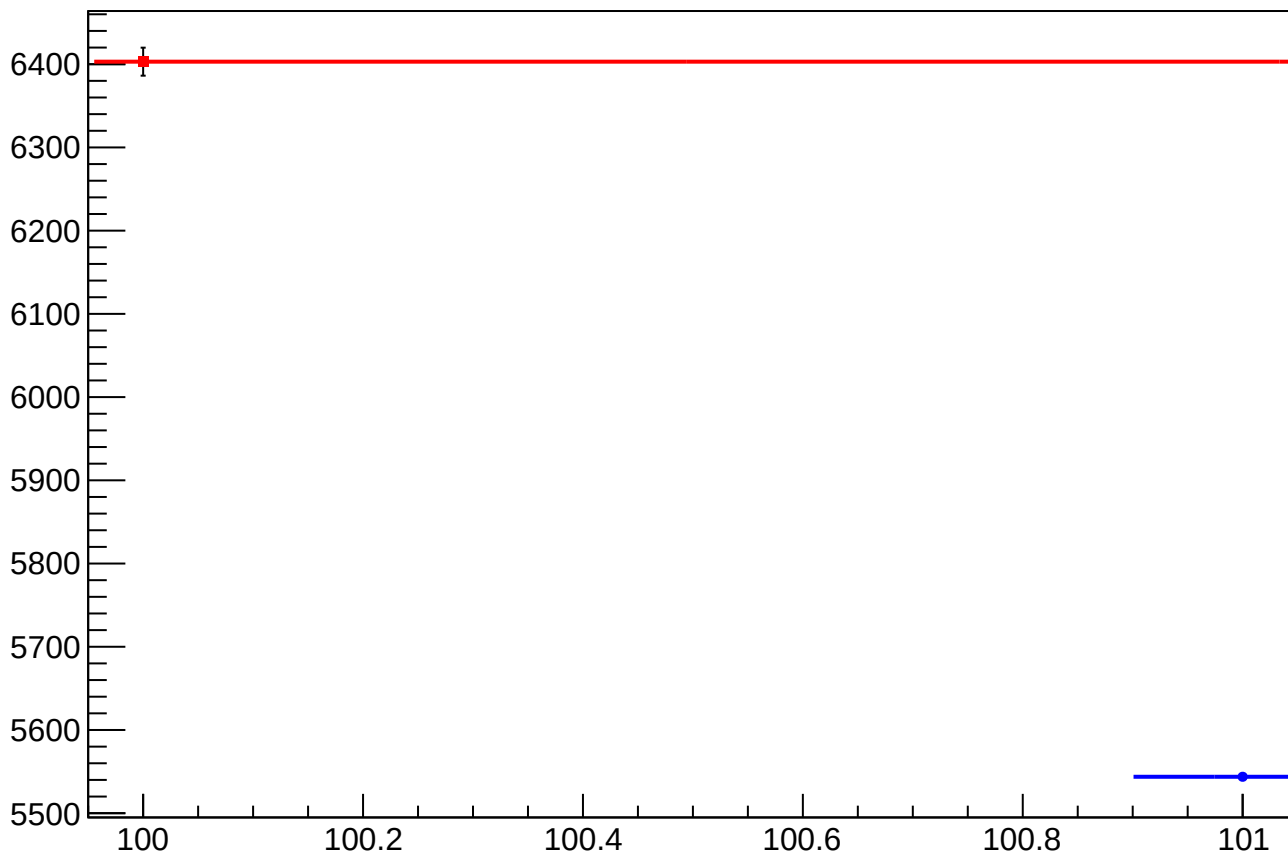
Right: -13227.105+/-6579.874  $\chi^2/\text{NDF}$ : 0.5/1

In: -11909.042+/-6846.981  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: -13227.105+/-6579.874  $\chi^2/\text{NDF}$ : 0.5/1

reg\_asym\_usr\_atr1\_dd\_rms vs Slug, Sign Corrected



Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 5609.516+/-4.653  $\chi^2$ /NDF: 2409.6/1

In: 5543.781+/-4.842  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 5609.516+/-4.653  $\chi^2$ /NDF: 2409.6/1

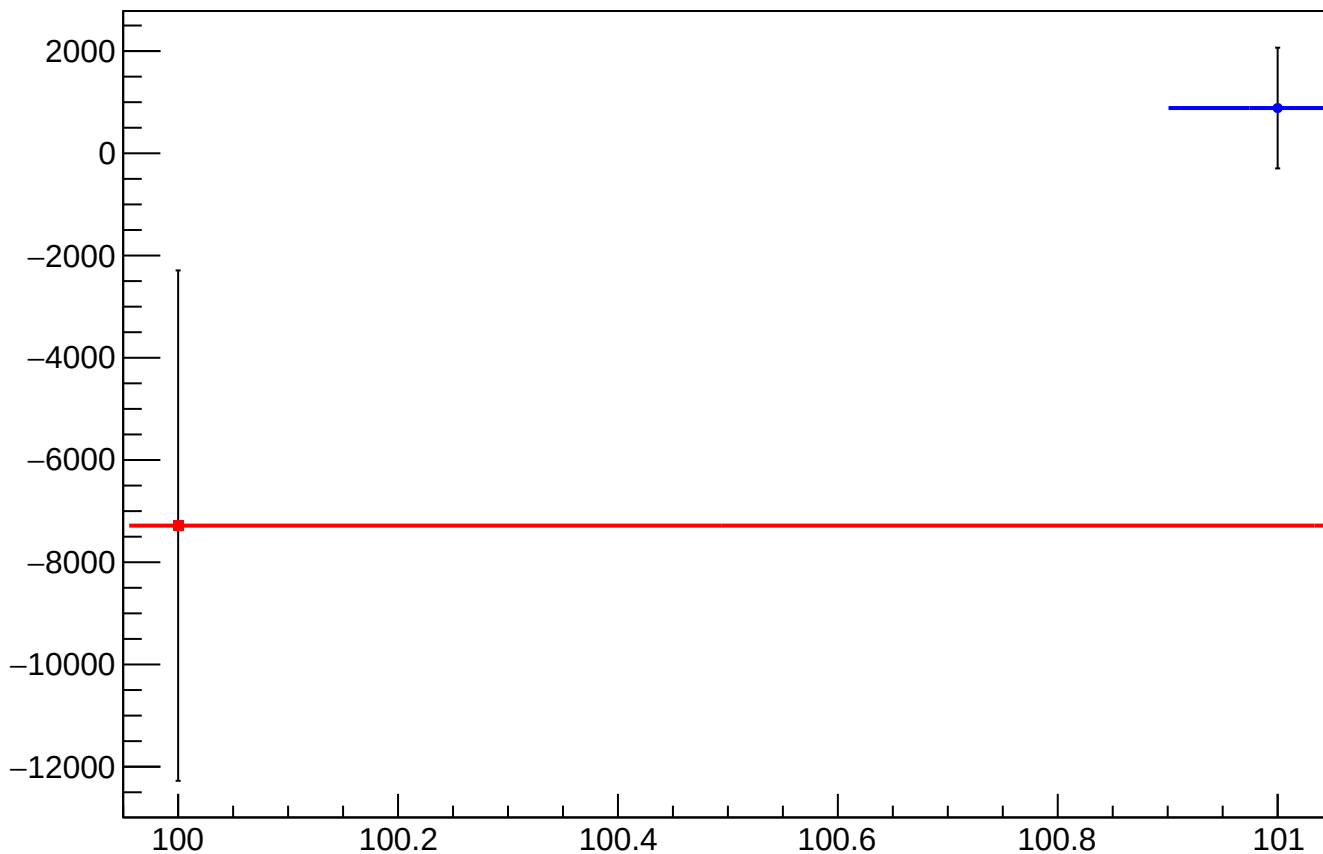
Right In: 5543.781+/-4.842  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6403.052+/-16.822  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_usr\_atr1\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 885.699+/-1180.875  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7283.073+/-4992.451  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

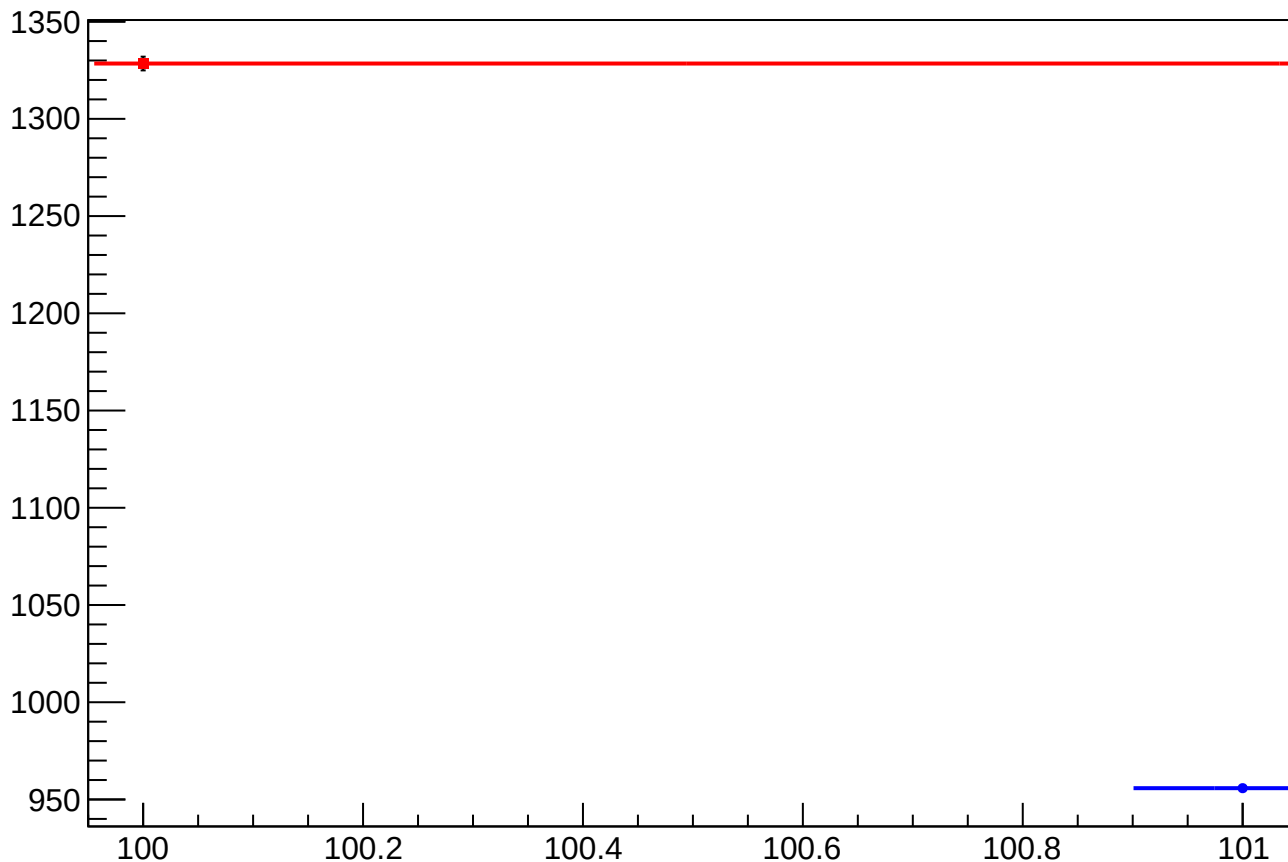
Right: 452.892+/-1149.166  $\chi^2/\text{NDF}$ : 2.5/1

In: 885.699+/-1180.875  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 452.892+/-1149.166  $\chi^2/\text{NDF}$ : 2.5/1

asym\_usr\_atr1\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 955.808 $\pm$ 0.835  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1328.442 $\pm$ 3.530  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

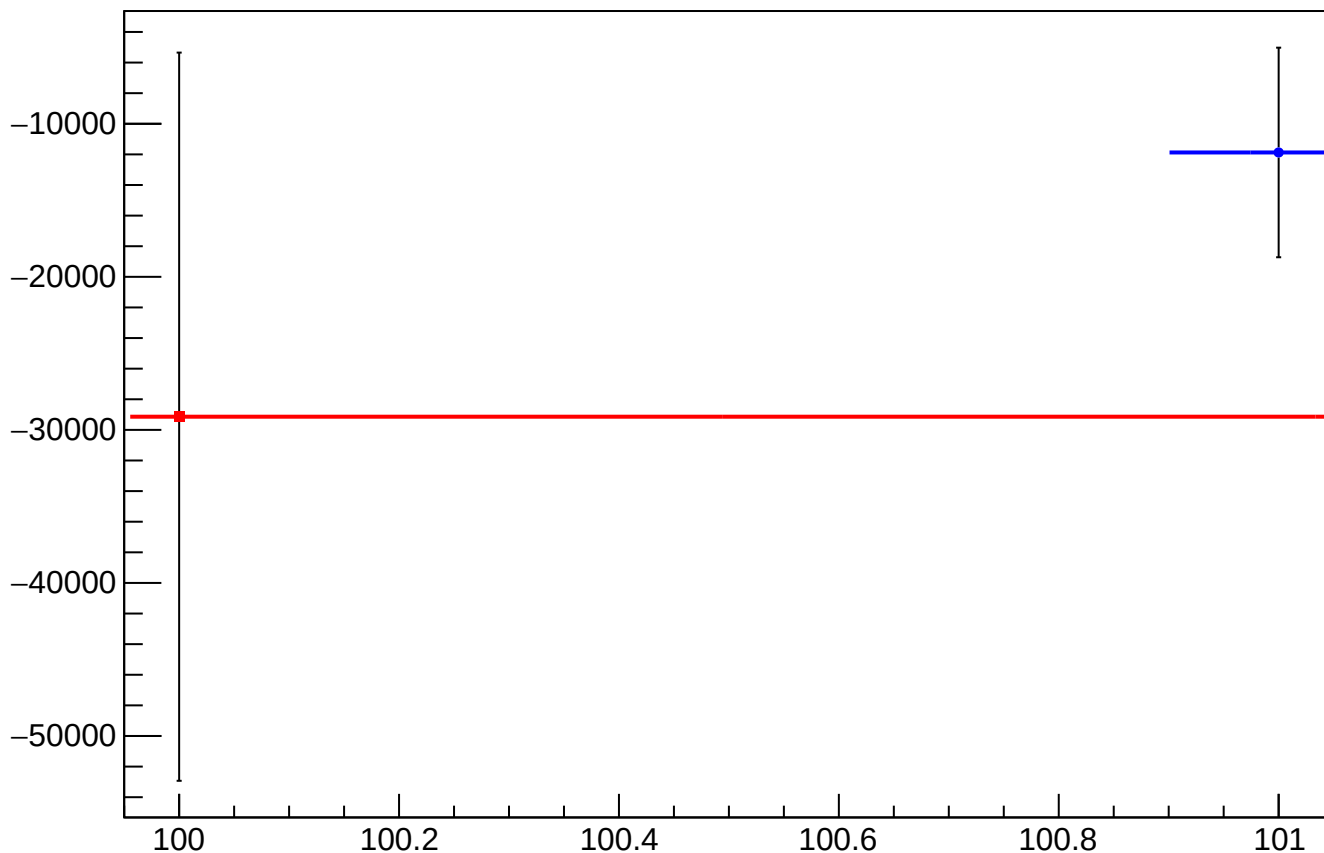
Right: 975.551 $\pm$ 0.813  $\chi^2$ /NDF: 10551.8/1

In: 955.808 $\pm$ 0.835  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 975.551 $\pm$ 0.813  $\chi^2$ /NDF: 10551.8/1

cor\_asym\_usr\_atr1\_dd\_mean vs Slug, Sign Corrected



Right In: -11873.949+/-6847.010  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -29138.619+/-23789.582  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

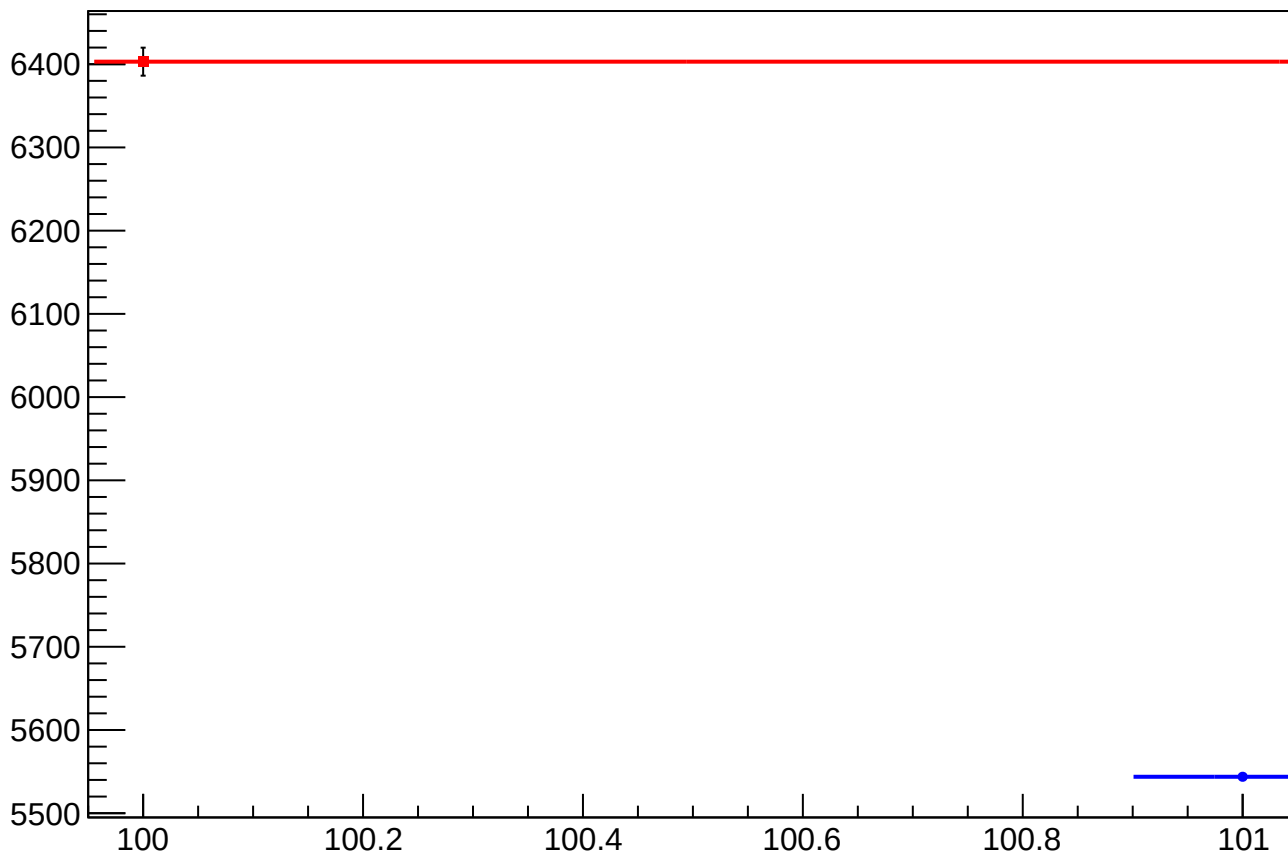
Right: -13194.707+/-6579.899  $\chi^2/\text{NDF}$ : 0.5/1

In: -11873.949+/-6847.010  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: -13194.707+/-6579.899  $\chi^2/\text{NDF}$ : 0.5/1

cor\_asym\_usr\_atr1\_dd\_rms vs Slug, Sign Corrected



Right In: 5543.797±4.842  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6403.052±16.822  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±0.000  $\chi^2$ /NDF: 0.0/0

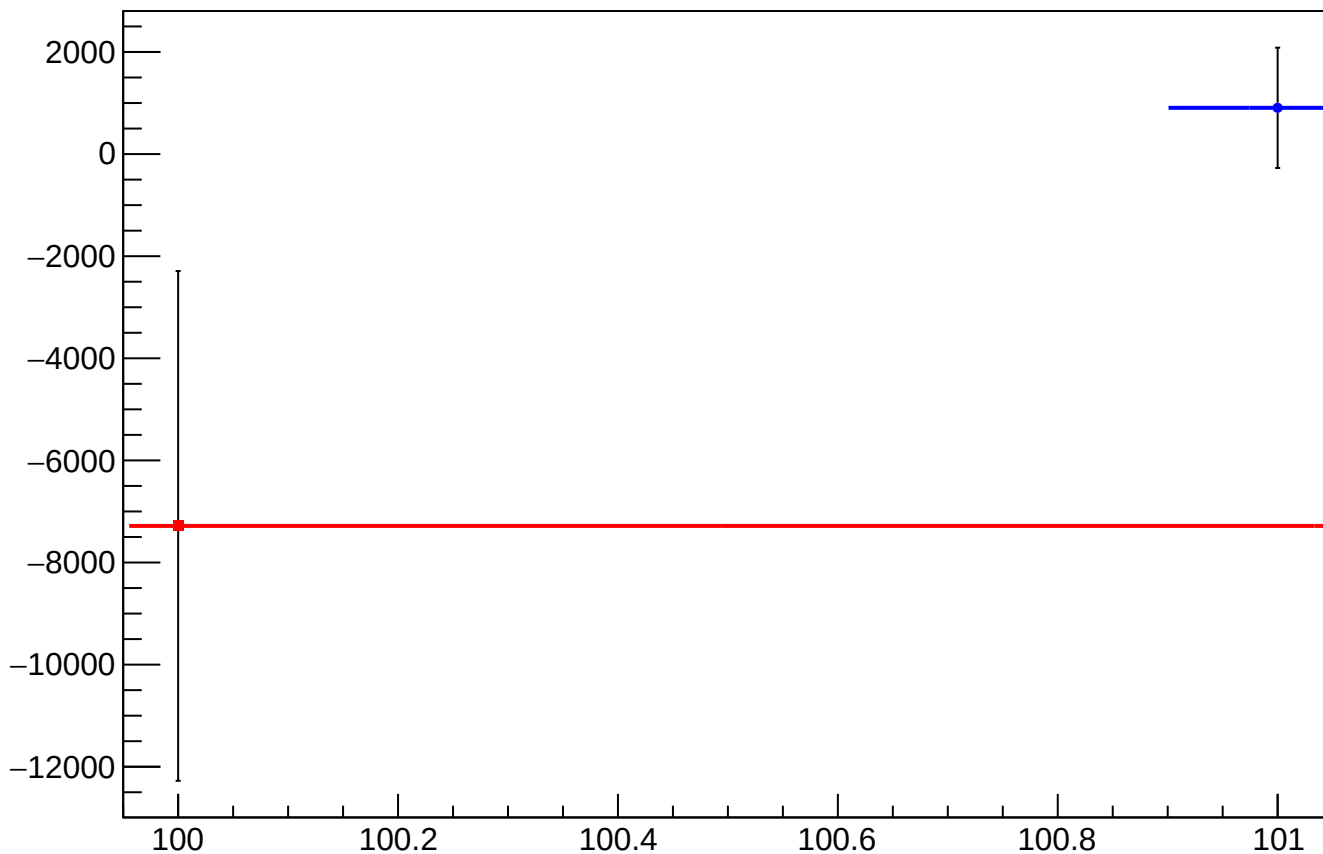
Right: 5609.530±4.653  $\chi^2$ /NDF: 2409.6/1

In: 5543.797±4.842  $\chi^2$ /NDF:0.0/0

Out: 0.000±0.000  $\chi^2$ /NDF:0.0/0

All: 5609.530±4.653  $\chi^2$ /NDF: 2409.6/1

asym\_usr\_atr1\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 906.153+/-1178.216  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7283.077+/-4992.451  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

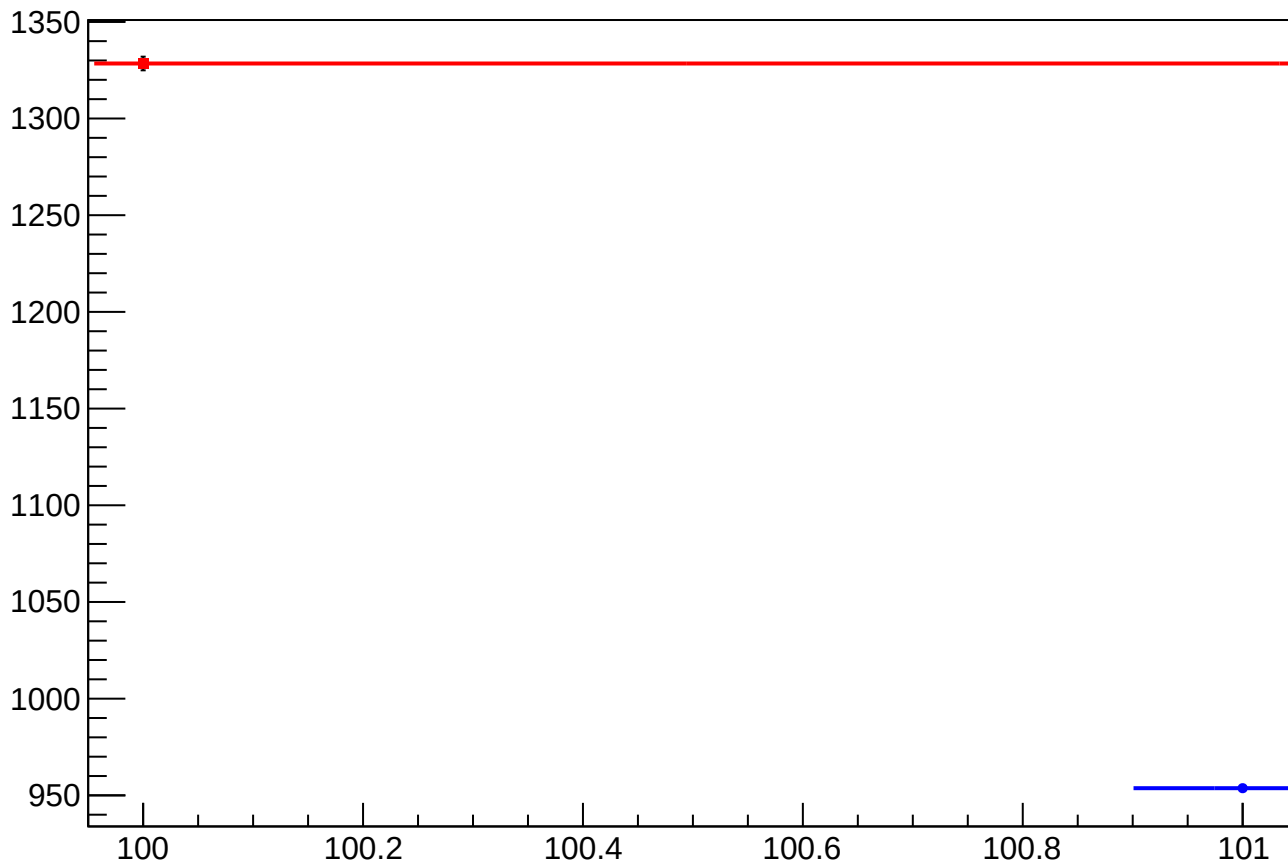
Right: 474.111+/-1146.715  $\chi^2/\text{NDF}$ : 2.5/1

In: 906.153+/-1178.216  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 474.111+/-1146.715  $\chi^2/\text{NDF}$ : 2.5/1

asym\_usr\_atr1\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 953.710 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1328.442 $\pm$ 3.530  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 973.480 $\pm$ 0.811  $\chi^2$ /NDF: 10673.5/1

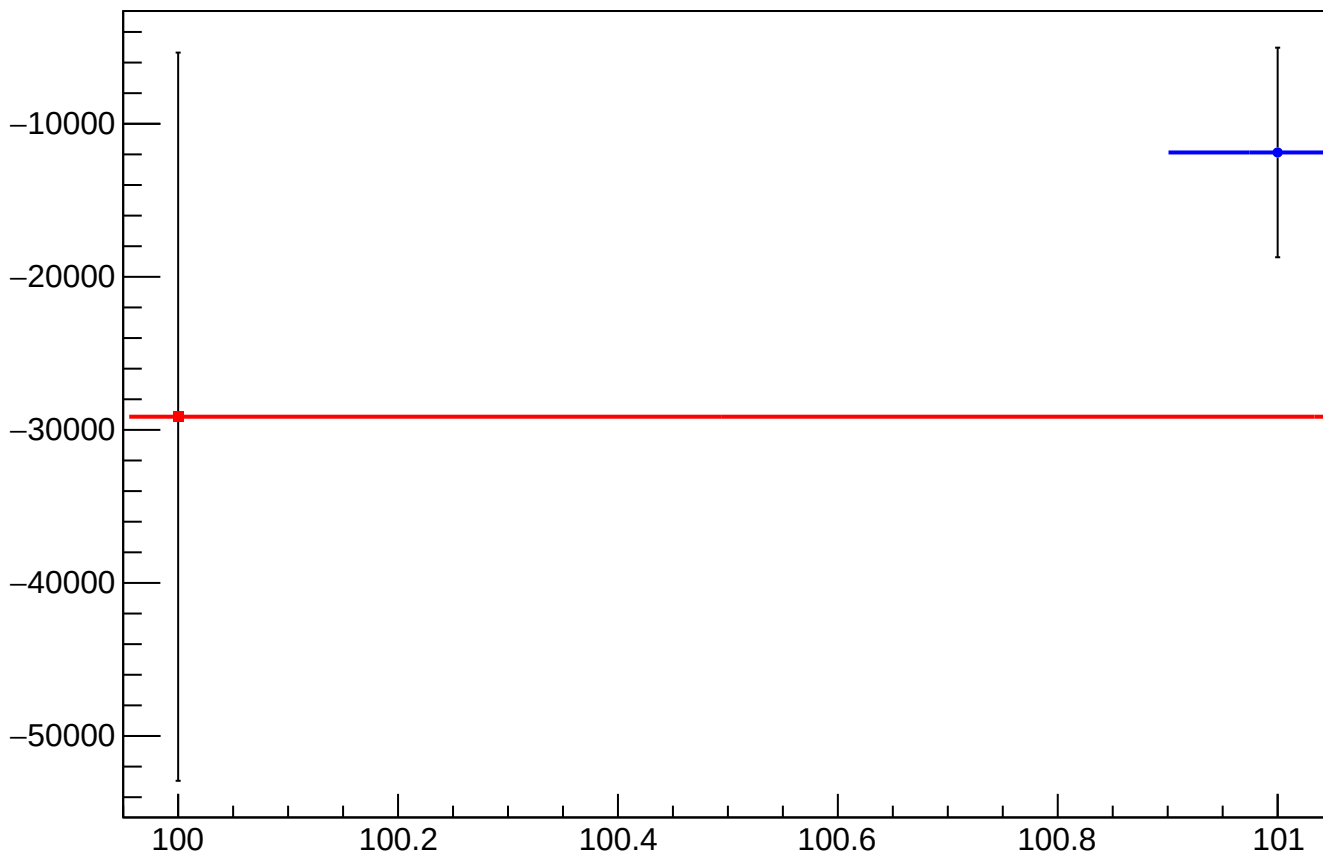
In: 953.710 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 973.480 $\pm$ 0.811  $\chi^2$ /NDF: 10673.5/1



eigen\_cor\_asym\_usr\_atr1\_dd\_mean vs Slug, Sign Corrected



Right In: -11873.949+/-6847.010  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29138.619+/-23789.582  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

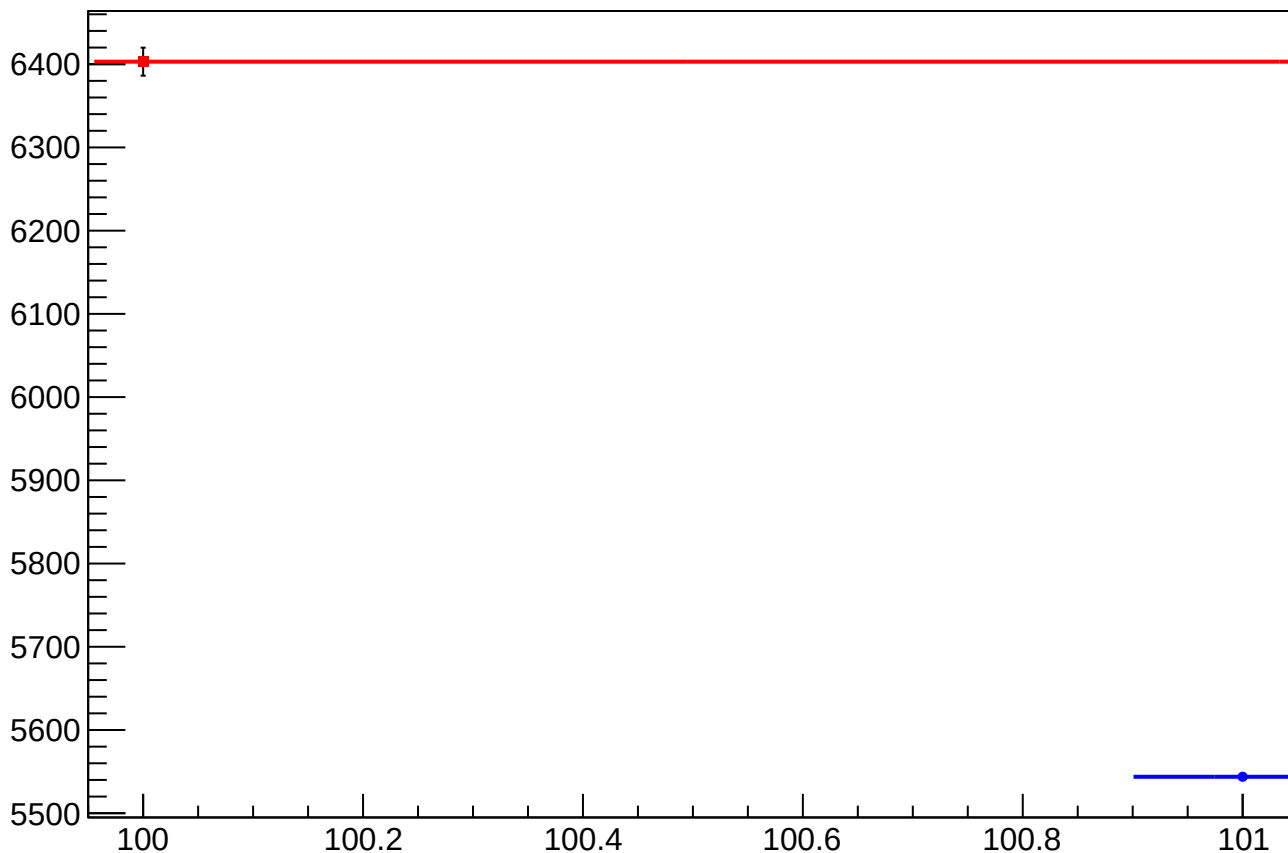
Right: -13194.707+/-6579.899  $\chi^2/\text{NDF}$ : 0.5/1

In: -11873.949+/-6847.010  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13194.707+/-6579.899  $\chi^2/\text{NDF}$ : 0.5/1

eigen\_cor\_asym\_usr\_atr1\_dd\_rms vs Slug, Sign Corrected



Right In: 5543.797+/-4.842  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6403.052+/-16.822  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

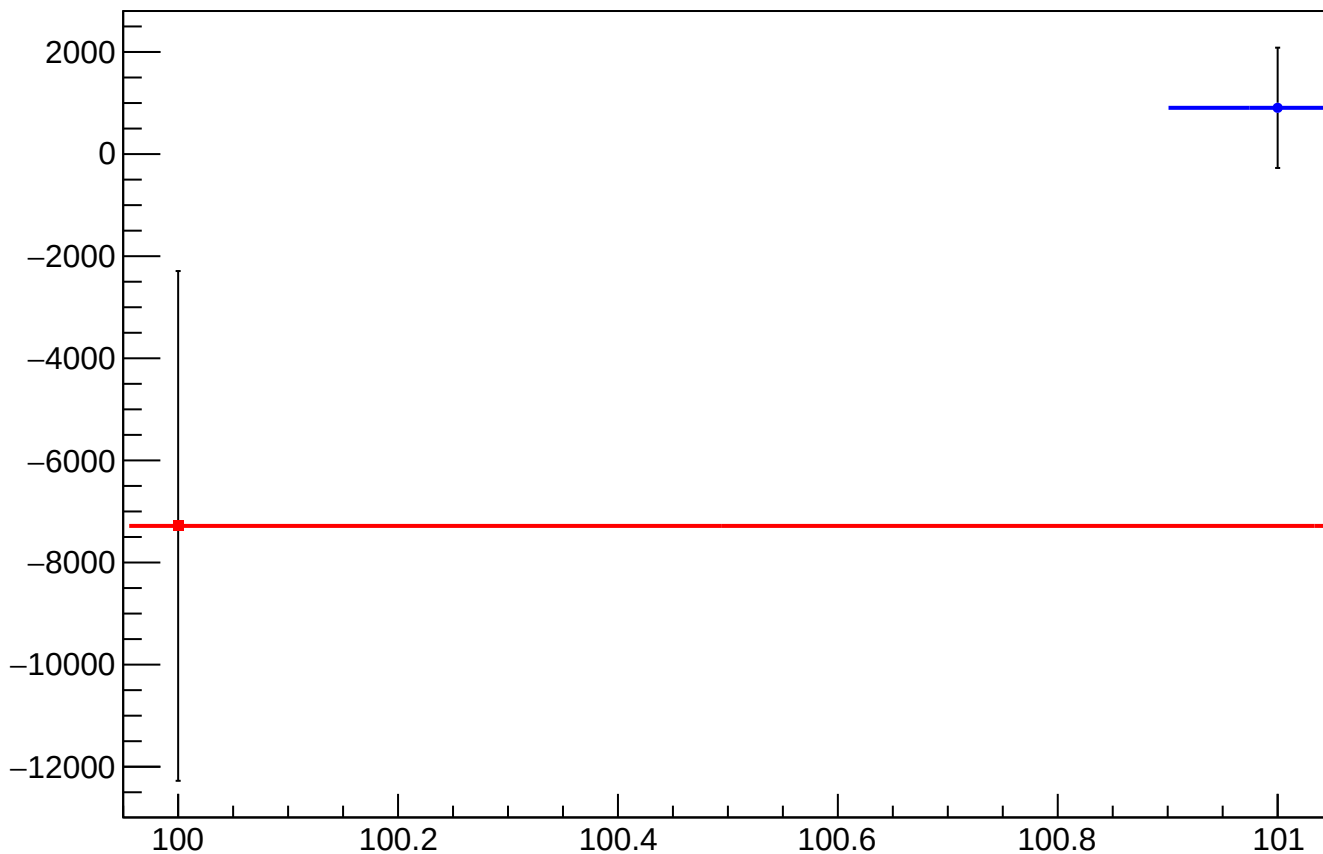
Right: 5609.530+/-4.653  $\chi^2/\text{NDF}$ : 2409.6/1

In: 5543.797+/-4.842  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5609.530+/-4.653  $\chi^2/\text{NDF}$ : 2409.6/1

asym\_usr\_atr1\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 906.153+/-1178.216  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7283.077+/-4992.451  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

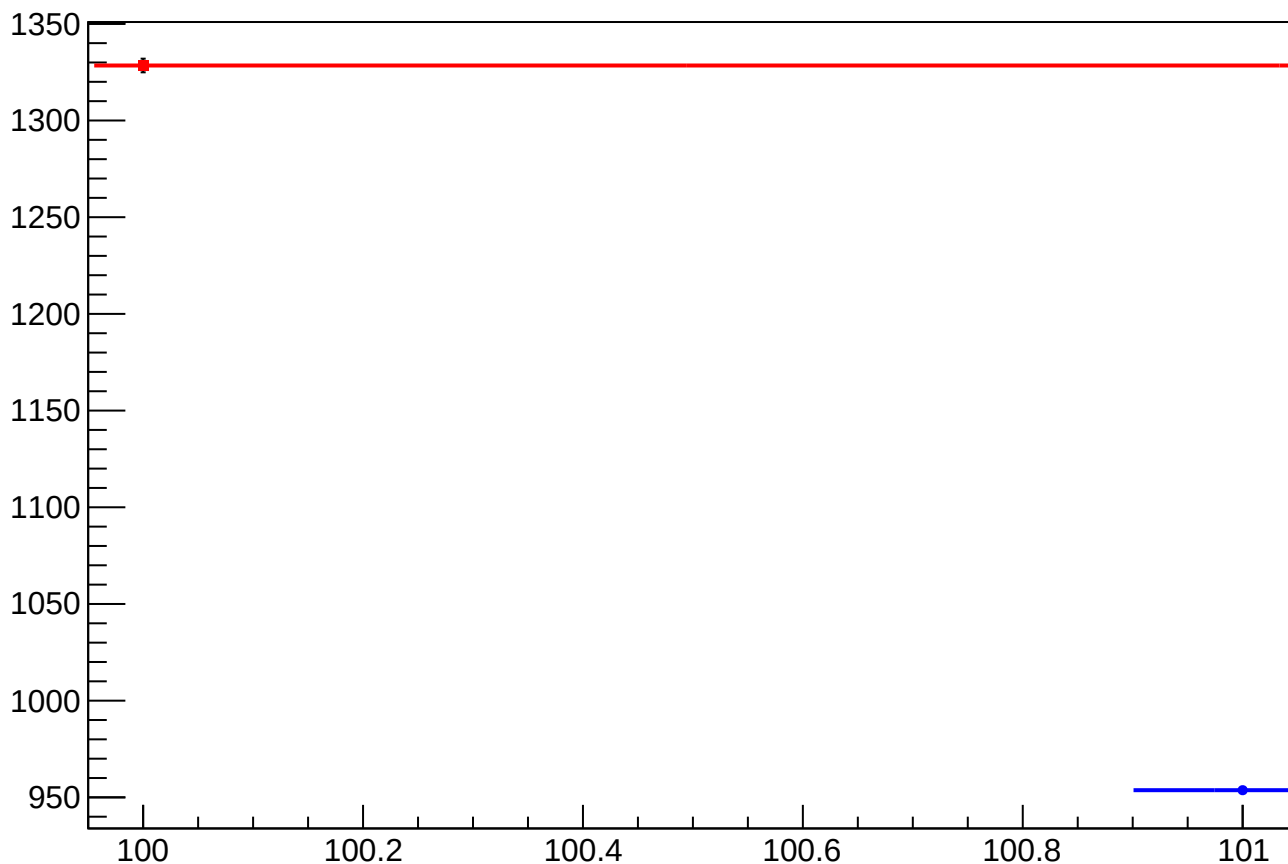
Right: 474.111+/-1146.715  $\chi^2/\text{NDF}$ : 2.5/1

In: 906.153+/-1178.216  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 474.111+/-1146.715  $\chi^2/\text{NDF}$ : 2.5/1

asym\_usr\_atr1\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 953.710 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1328.442 $\pm$ 3.530  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

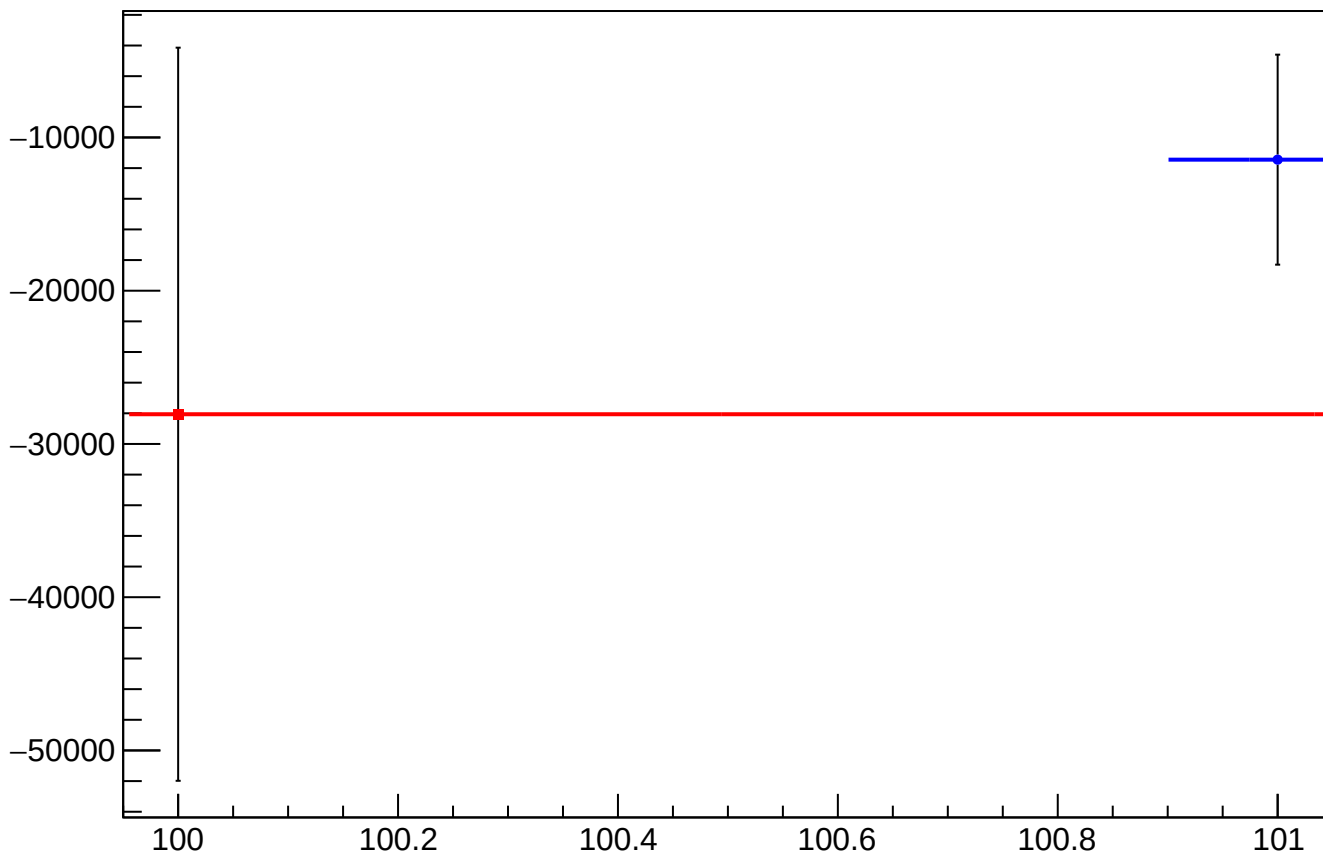
Right: 973.480 $\pm$ 0.811  $\chi^2$ /NDF: 10673.5/1

In: 953.710 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 973.480 $\pm$ 0.811  $\chi^2$ /NDF: 10673.5/1

dit\_asym\_usr\_atr1\_dd\_mean vs Slug, Sign Corrected



Right In: -11448.099+/-6852.329  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -28060.514+/-23920.183  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

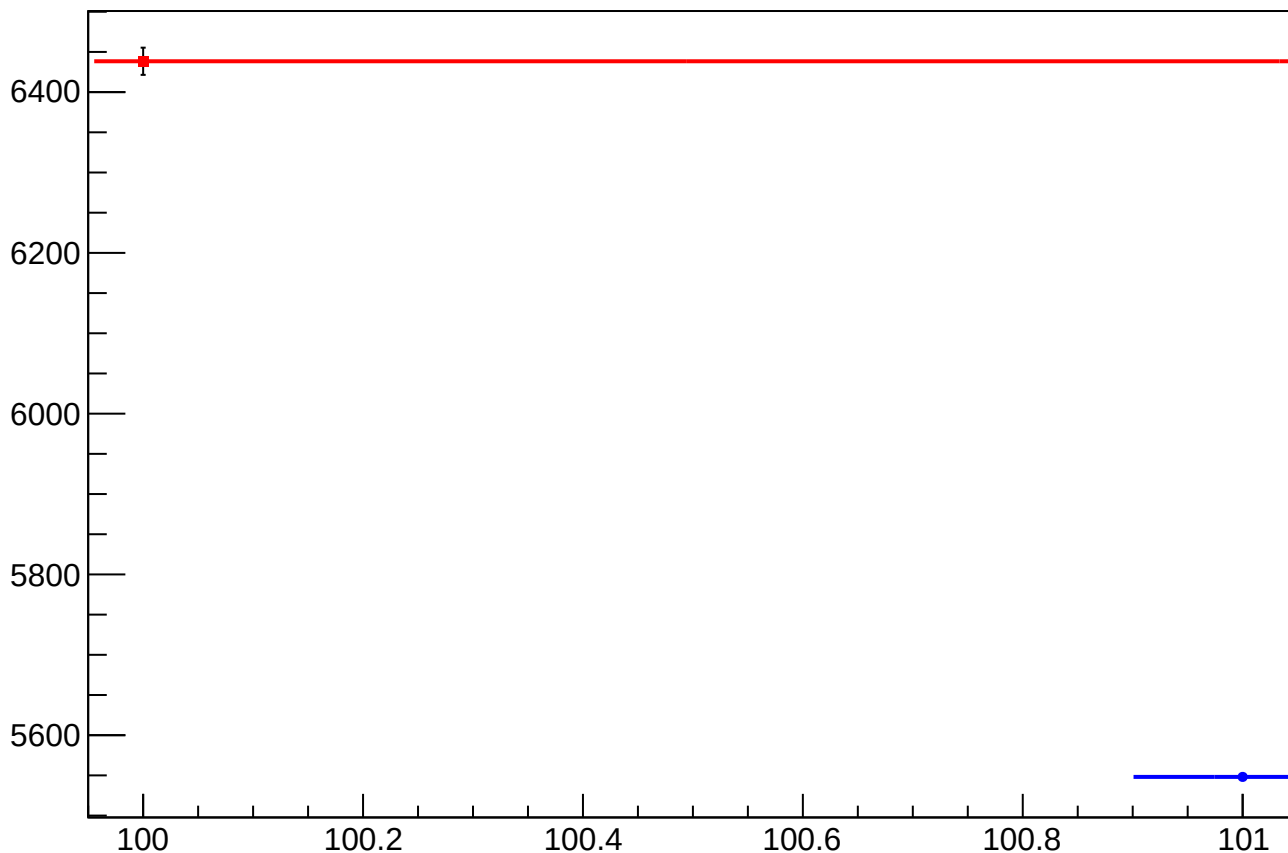
Right: -12707.974+/-6587.368  $\chi^2/\text{NDF}$ : 0.4/1

In: -11448.099+/-6852.329  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12707.974+/-6587.368  $\chi^2/\text{NDF}$ : 0.4/1

# dit\_asym\_usr\_atr1\_dd\_rms vs Slug, Sign Corrected



Right In: 5548.116+/-4.845  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6438.386+/-16.914  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

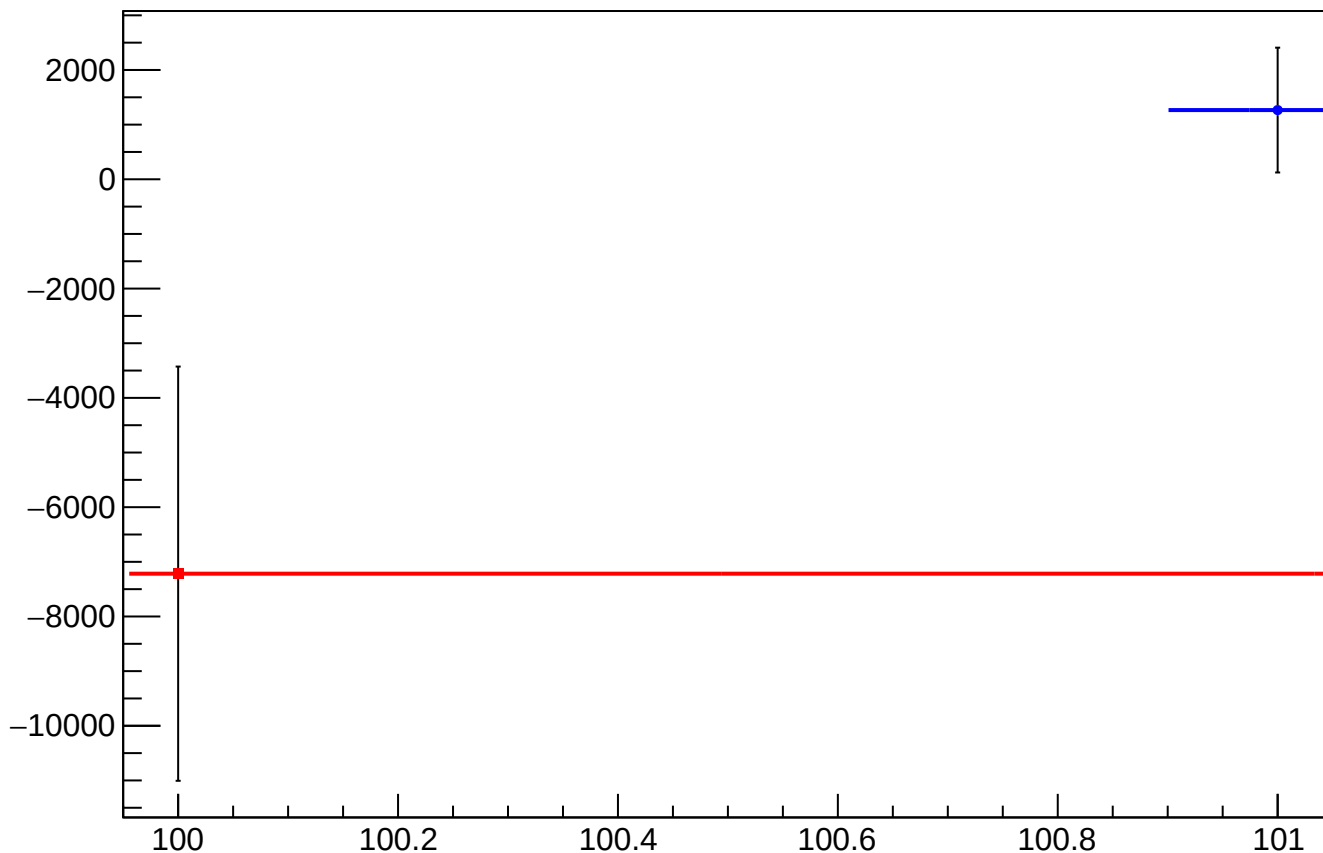
Right: 5615.634+/-4.658  $\chi^2/\text{NDF}$ : 2560.3/1

In: 5548.116+/-4.845  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5615.634+/-4.658  $\chi^2/\text{NDF}$ : 2560.3/1

asym\_usr\_atr1\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1266.352+/-1141.855  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7216.820+/-3789.791  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

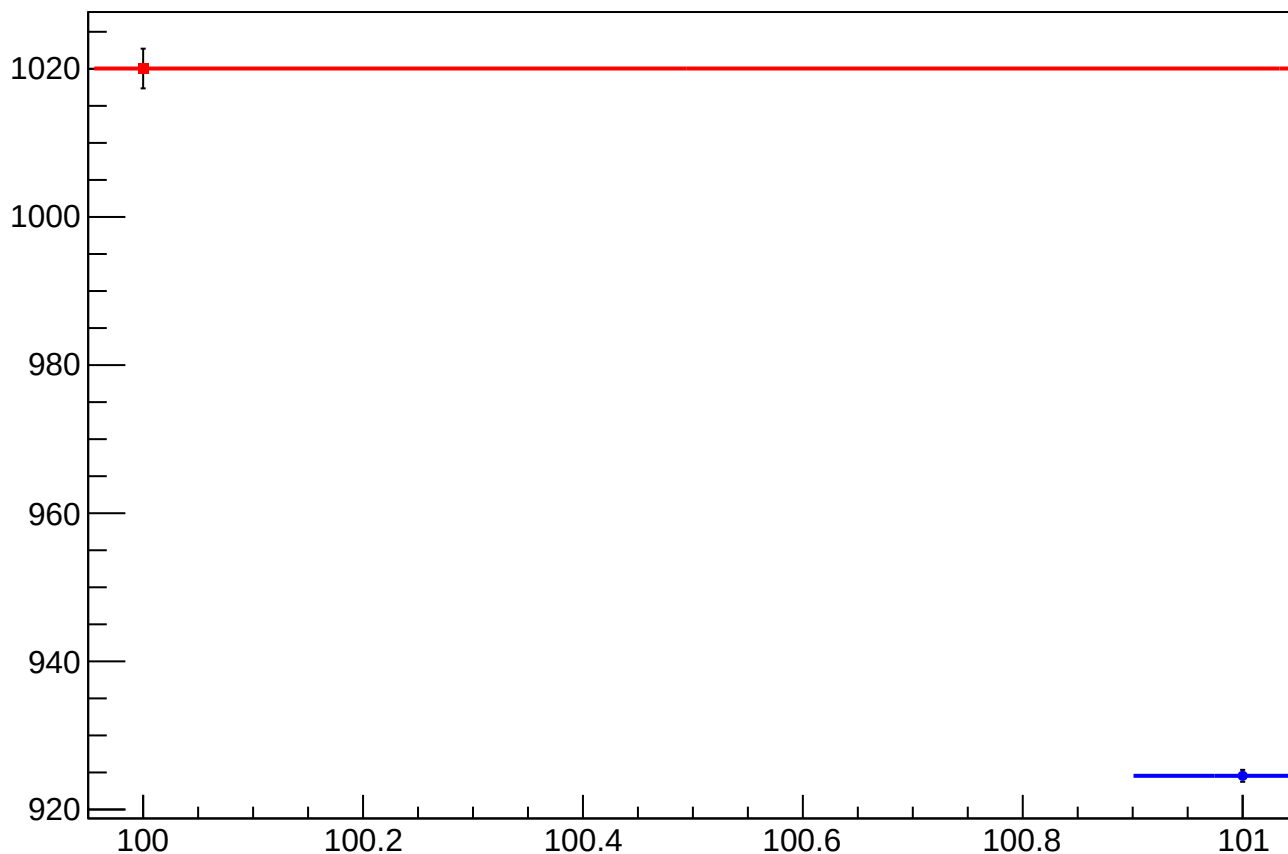
Right: 560.339+/-1093.307  $\chi^2/\text{NDF}$ : 4.6/1

In: 1266.352+/-1141.855  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 560.339+/-1093.307  $\chi^2/\text{NDF}$ : 4.6/1

asym\_usr\_atr1\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 924.547+/-0.807  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1020.042+/-2.680  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 932.494+/-0.773  $\chi^2/\text{NDF}$ : 1164.2/1

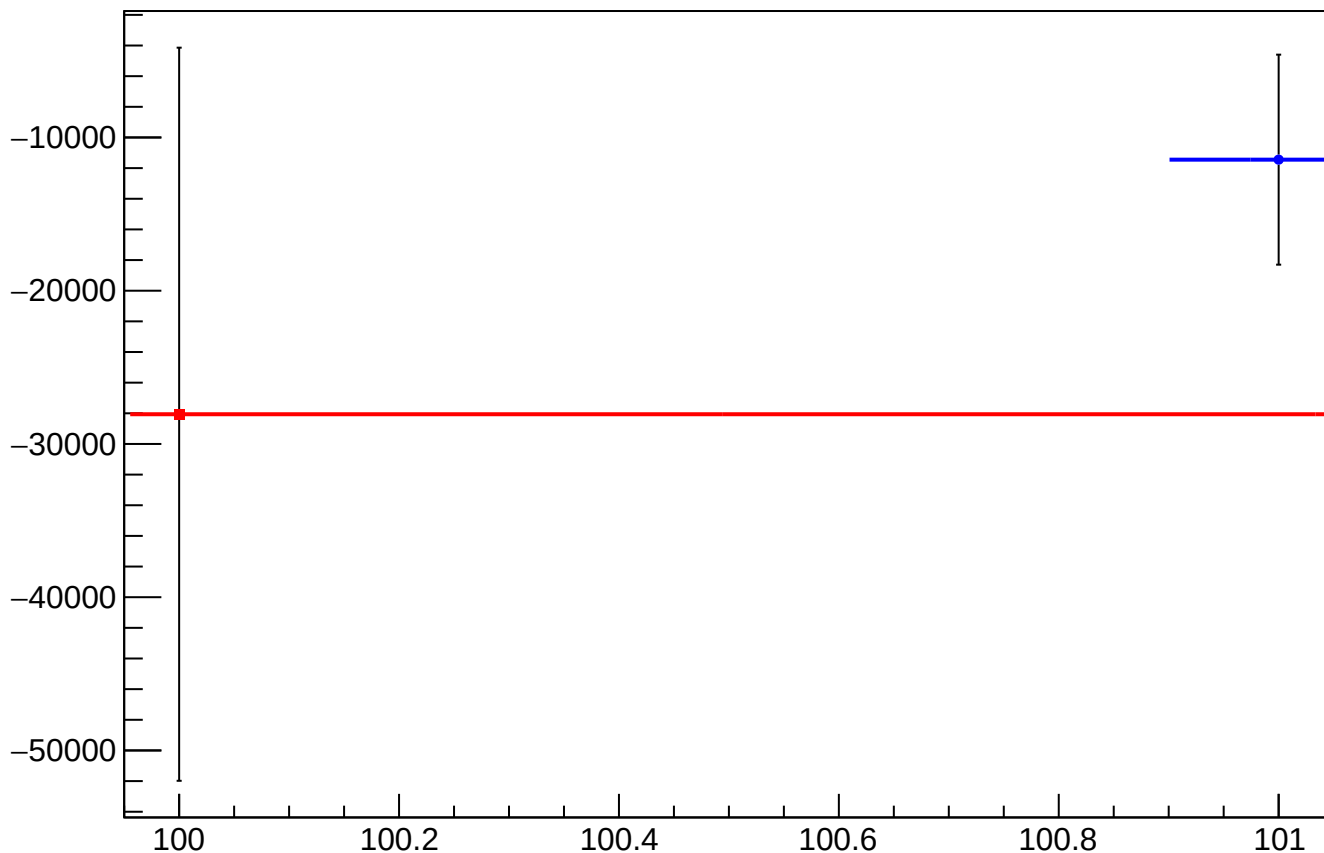
In: 924.547+/-0.807  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 932.494+/-0.773  $\chi^2/\text{NDF}$ : 1164.2/1



eigen\_dit\_asym\_usr\_atr1\_dd\_mean vs Slug, Sign Corrected



Right In: -11448.102+/-6852.329  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -28060.500+/-23920.183  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

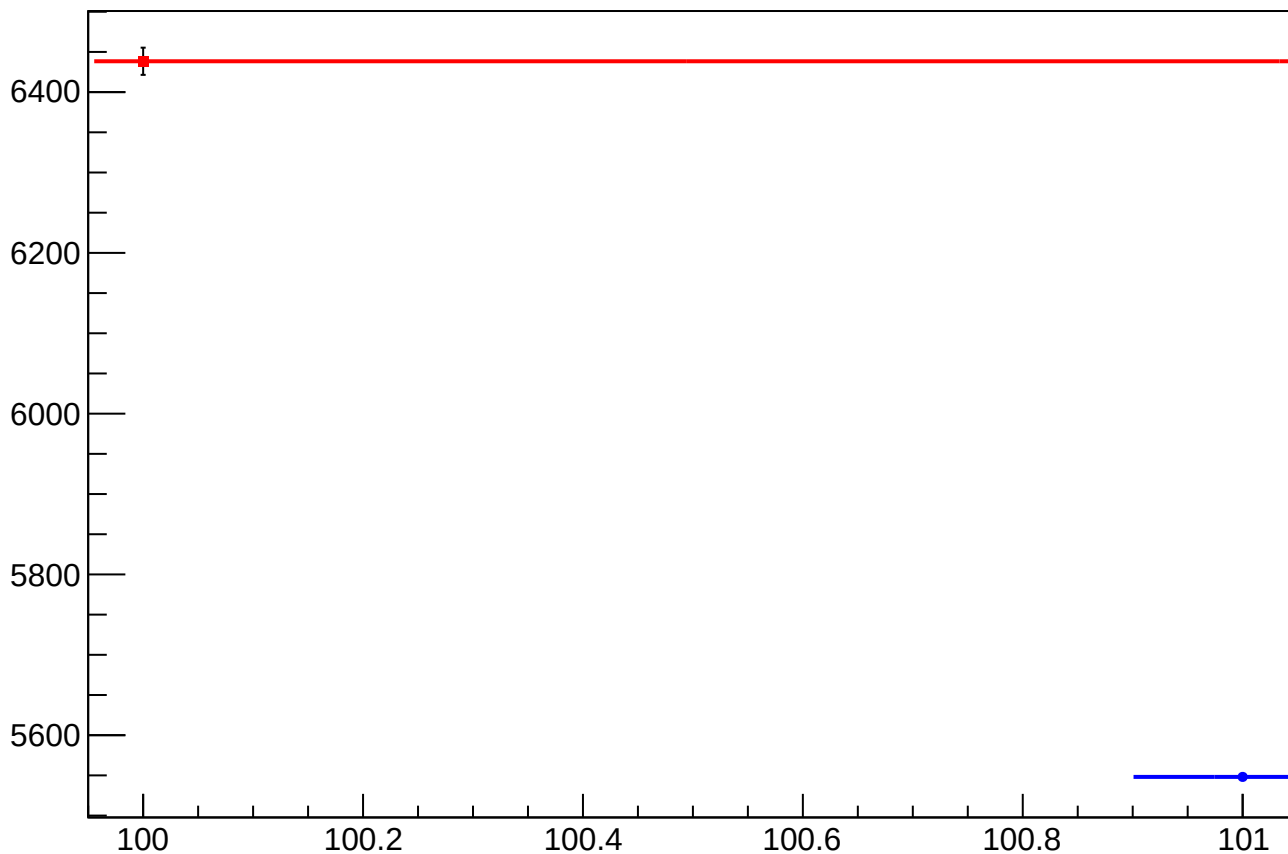
Right: -12707.977+/-6587.368  $\chi^2/\text{NDF}$ : 0.4/1

In: -11448.102+/-6852.329  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12707.977+/-6587.368  $\chi^2/\text{NDF}$ : 0.4/1

eigen\_dit\_asym\_usr\_atr1\_dd\_rms vs Slug, Sign Corrected



Right In: 5548.116+/-4.845  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6438.386+/-16.914  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

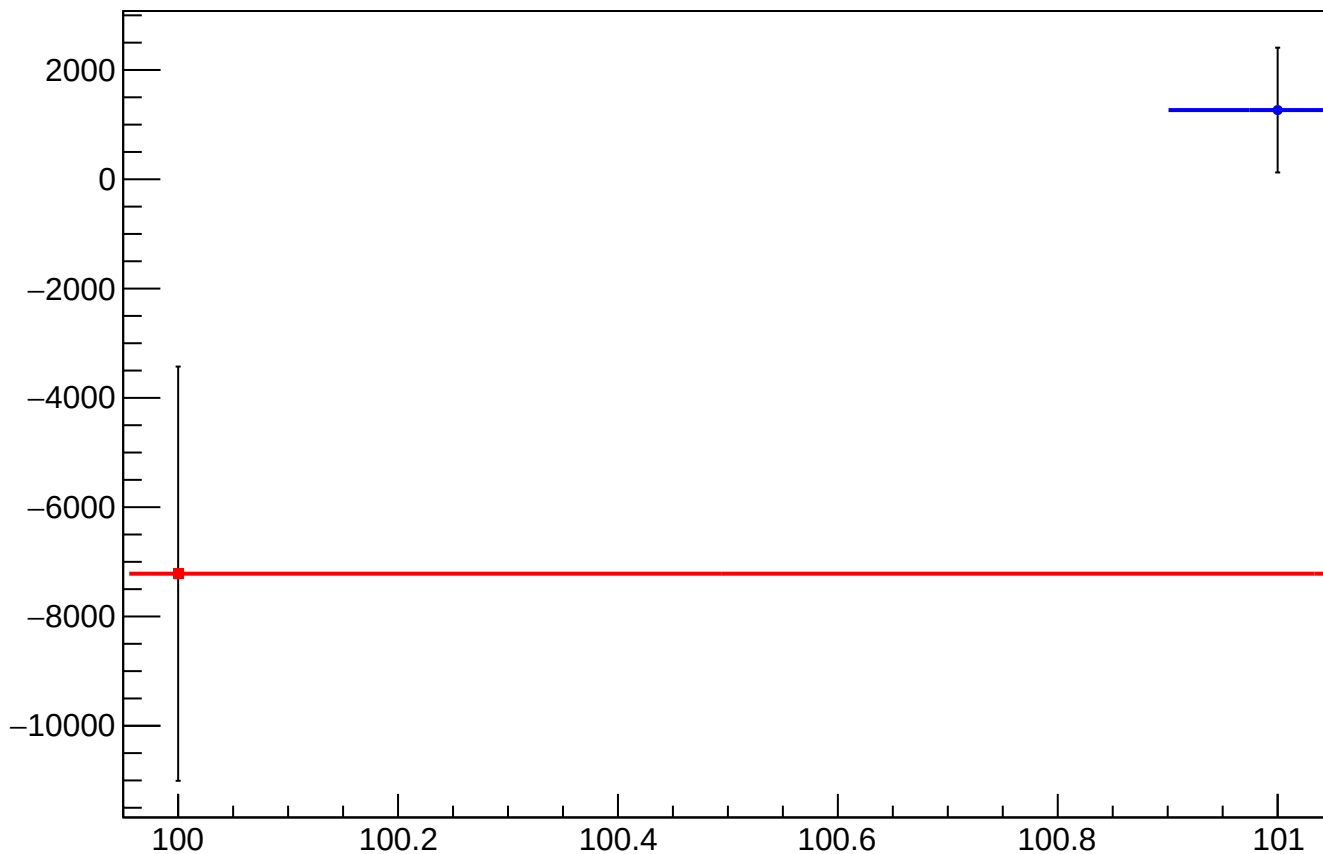
Right: 5615.634+/-4.658  $\chi^2/\text{NDF}$ : 2560.3/1

In: 5548.116+/-4.845  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5615.634+/-4.658  $\chi^2/\text{NDF}$ : 2560.3/1

asym\_usr\_atr1\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1266.350+/-1141.853  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7216.806+/-3789.784  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

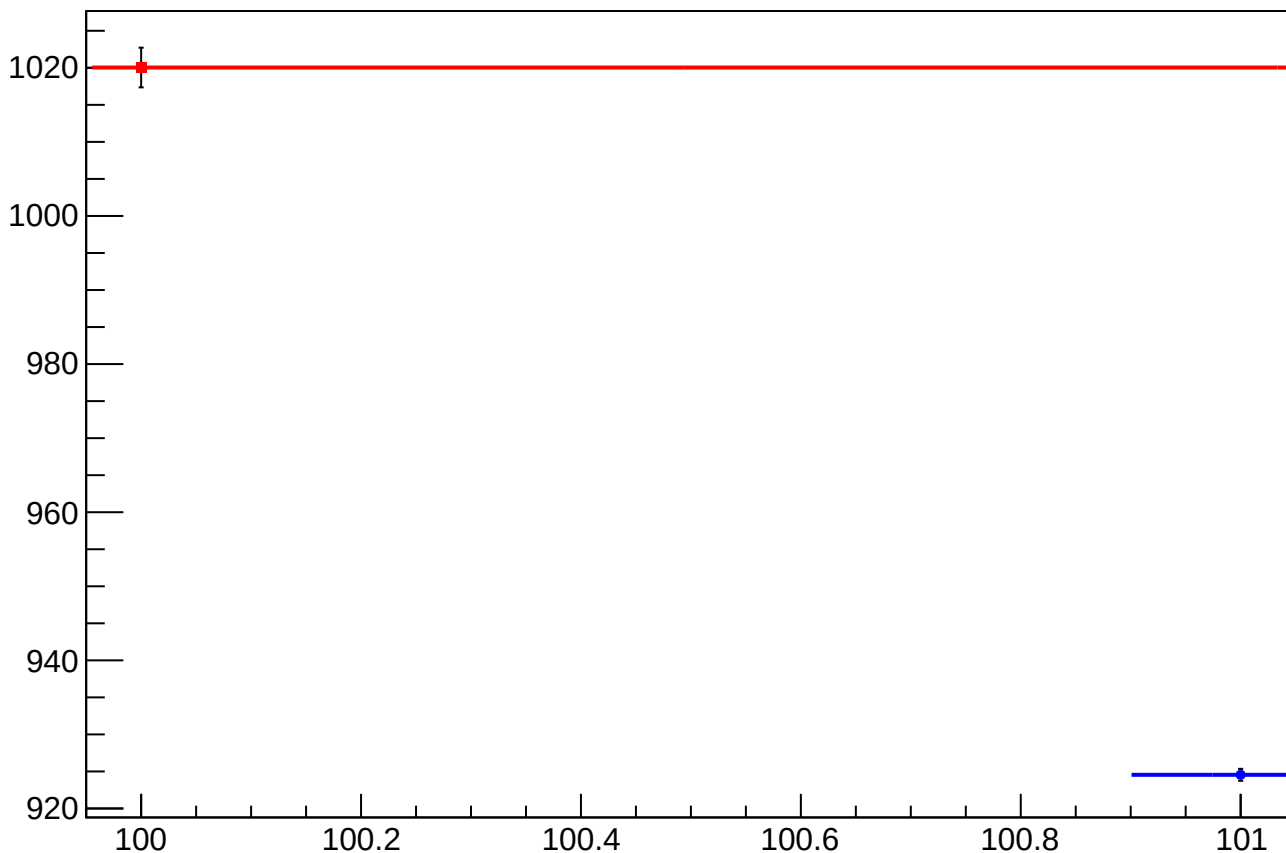
Right: 560.339+/-1093.306  $\chi^2/\text{NDF}$ : 4.6/1

In: 1266.350+/-1141.853  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 560.339+/-1093.306  $\chi^2/\text{NDF}$ : 4.6/1

asym\_usr\_atr1\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 924.545 $\pm$ 0.807  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1020.040 $\pm$ 2.680  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

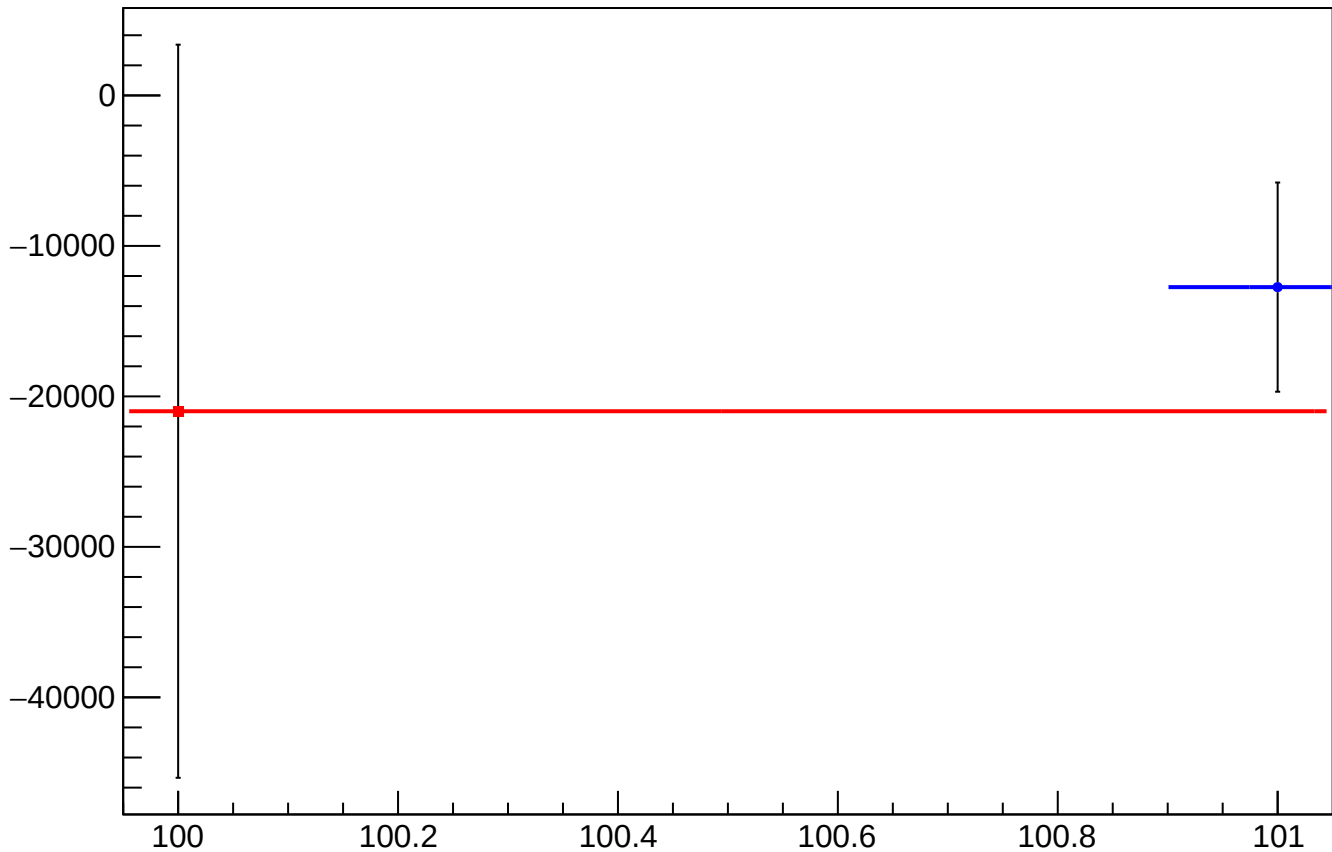
Right: 932.493 $\pm$ 0.773  $\chi^2/\text{NDF}$ : 1164.2/1

In: 924.545 $\pm$ 0.807  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 932.493 $\pm$ 0.773  $\chi^2/\text{NDF}$ : 1164.2/1

# asym\_usr\_atr1\_dd\_mean vs Slug, Sign Corrected



Right In: -12738.369+/-6950.568  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20986.344+/-24360.488  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

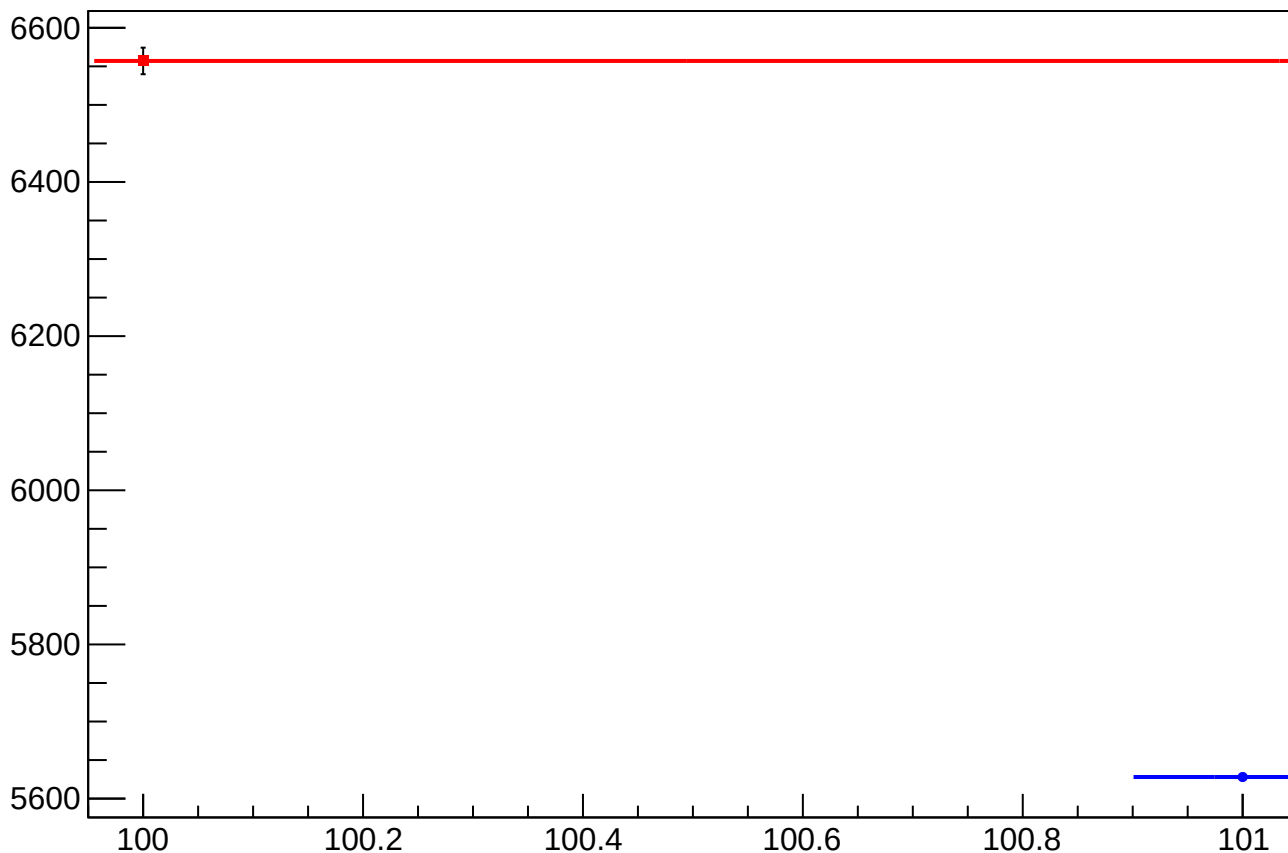
Right: -13359.275+/-6683.831  $\chi^2/\text{NDF}$ : 0.1/1

In: -12738.369+/-6950.568  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13359.275+/-6683.831  $\chi^2/\text{NDF}$ : 0.1/1

# asym\_usr\_atr1\_dd\_rms vs Slug, Sign Corrected



Right In: 5628.014 $\pm$ 4.915  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6557.017 $\pm$ 17.225  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

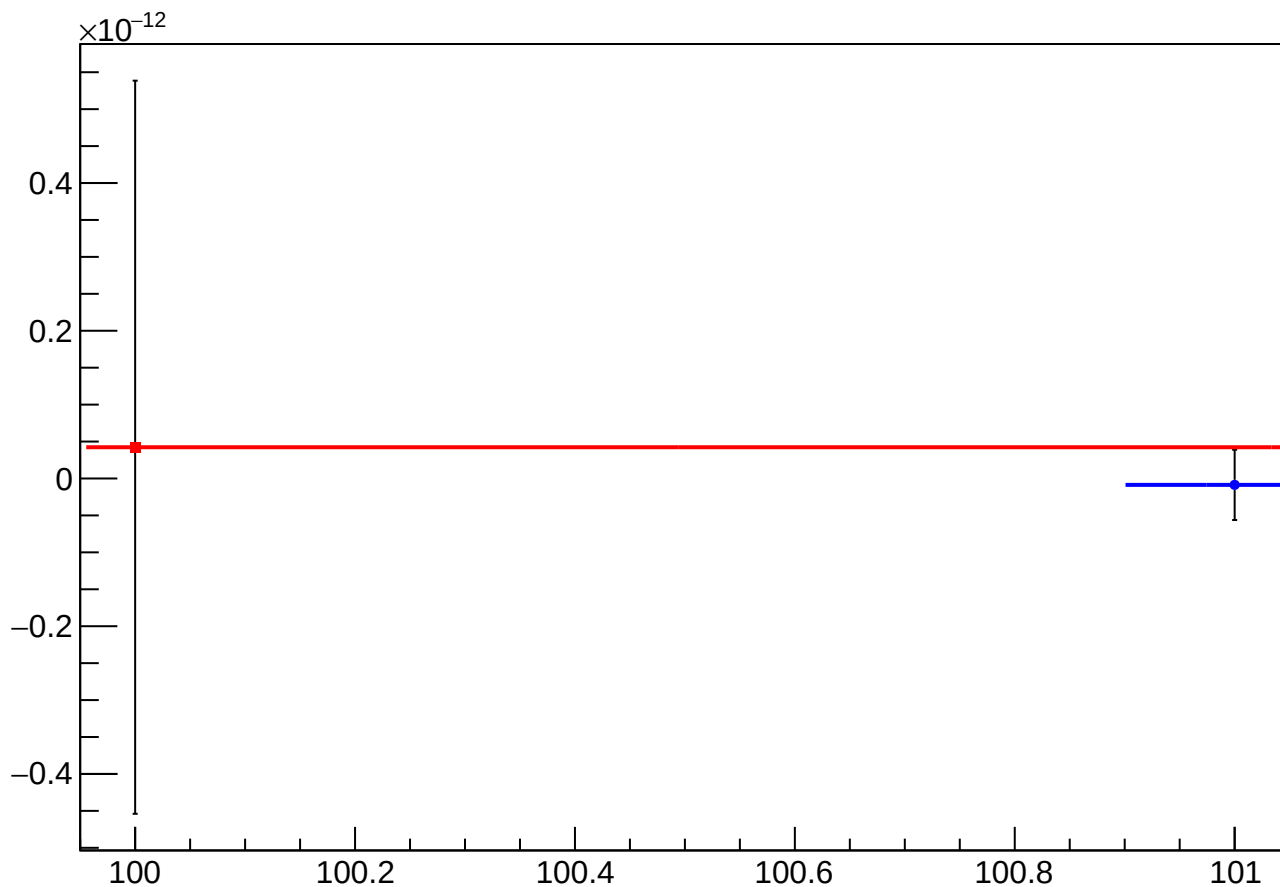
Right: 5697.949 $\pm$ 4.726  $\chi^2/\text{NDF}$ : 2689.7/1

In: 5628.014 $\pm$ 4.915  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5697.949 $\pm$ 4.726  $\chi^2/\text{NDF}$ : 2689.7/1

asym\_usr\_atr1\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

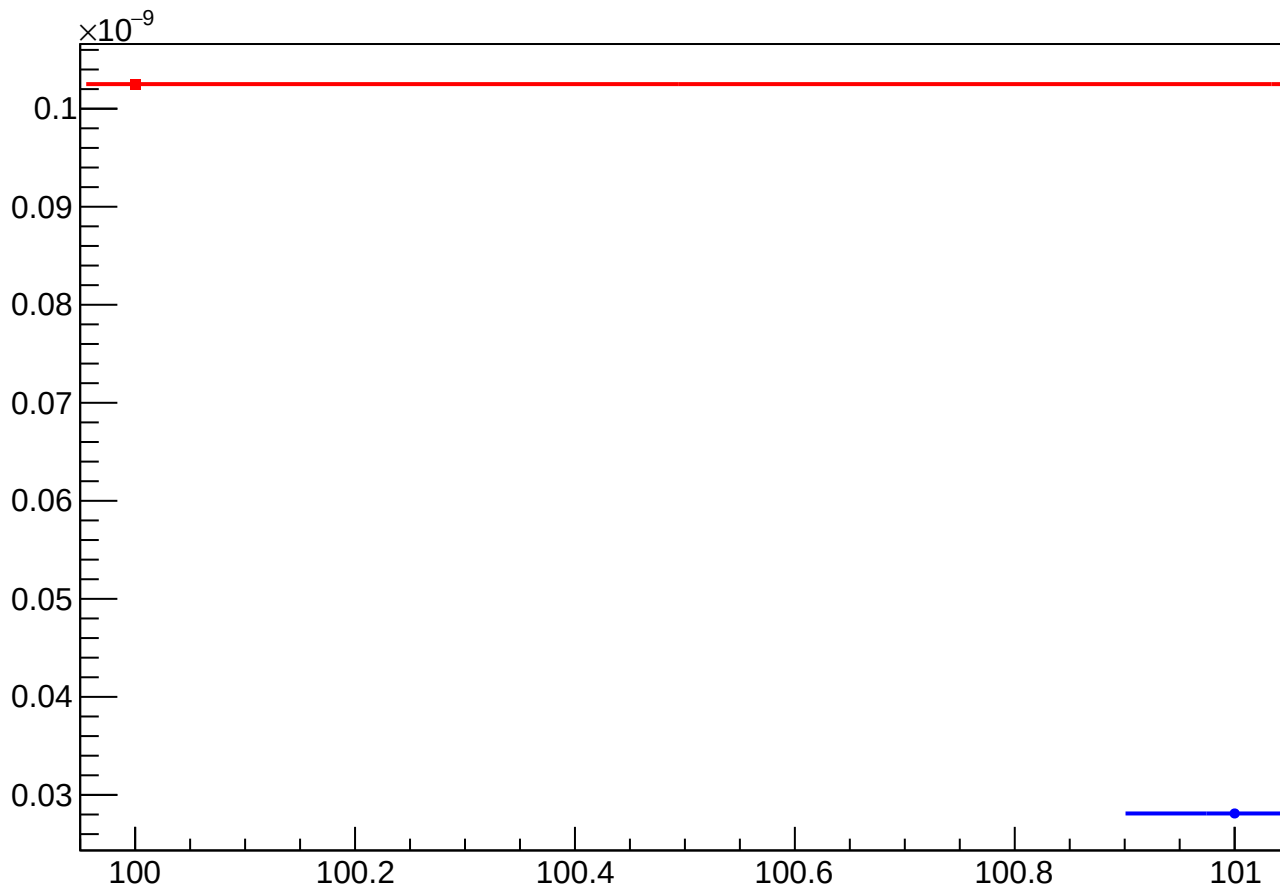
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usr\_atr1\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 44547.3/1

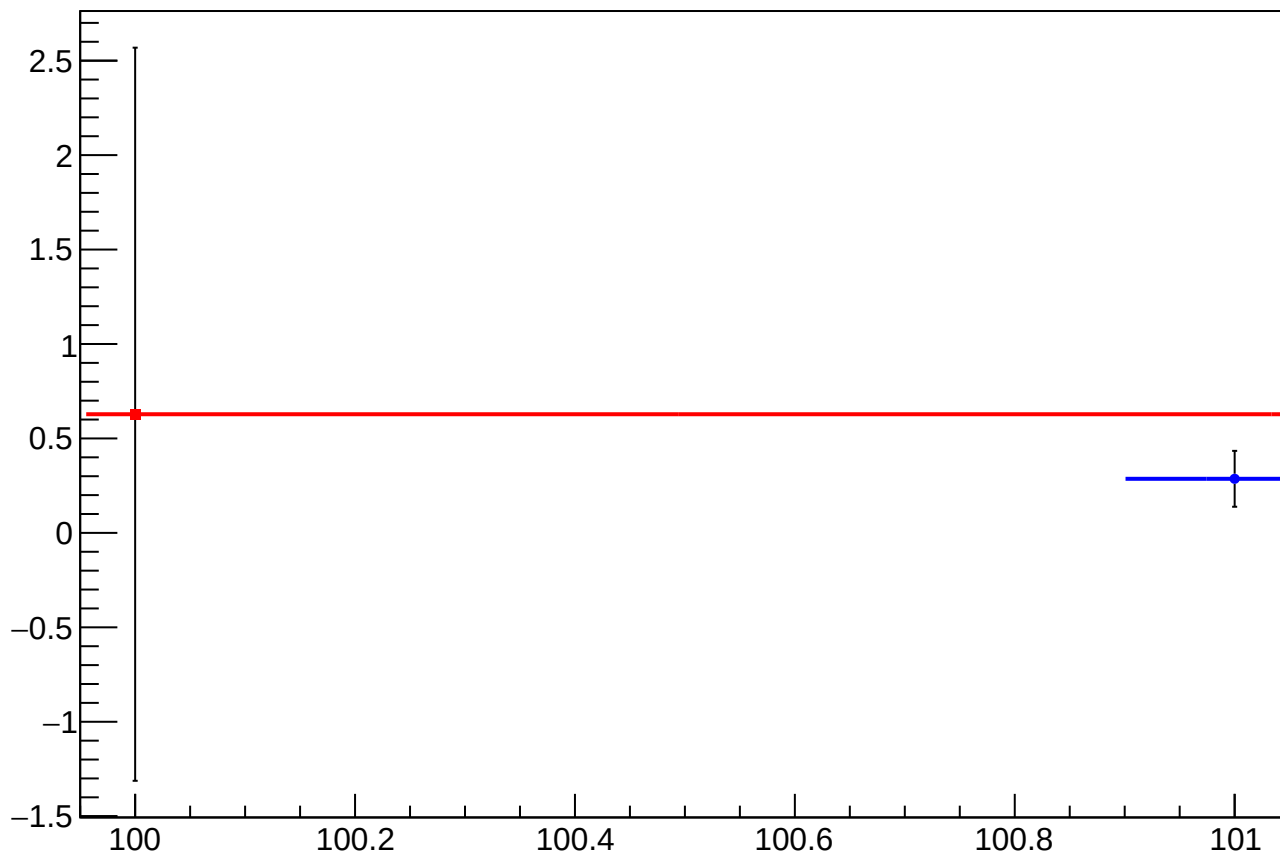
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 44547.3/1



asym\_usr\_atr1\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.286+/-0.148  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.628+/-1.941  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

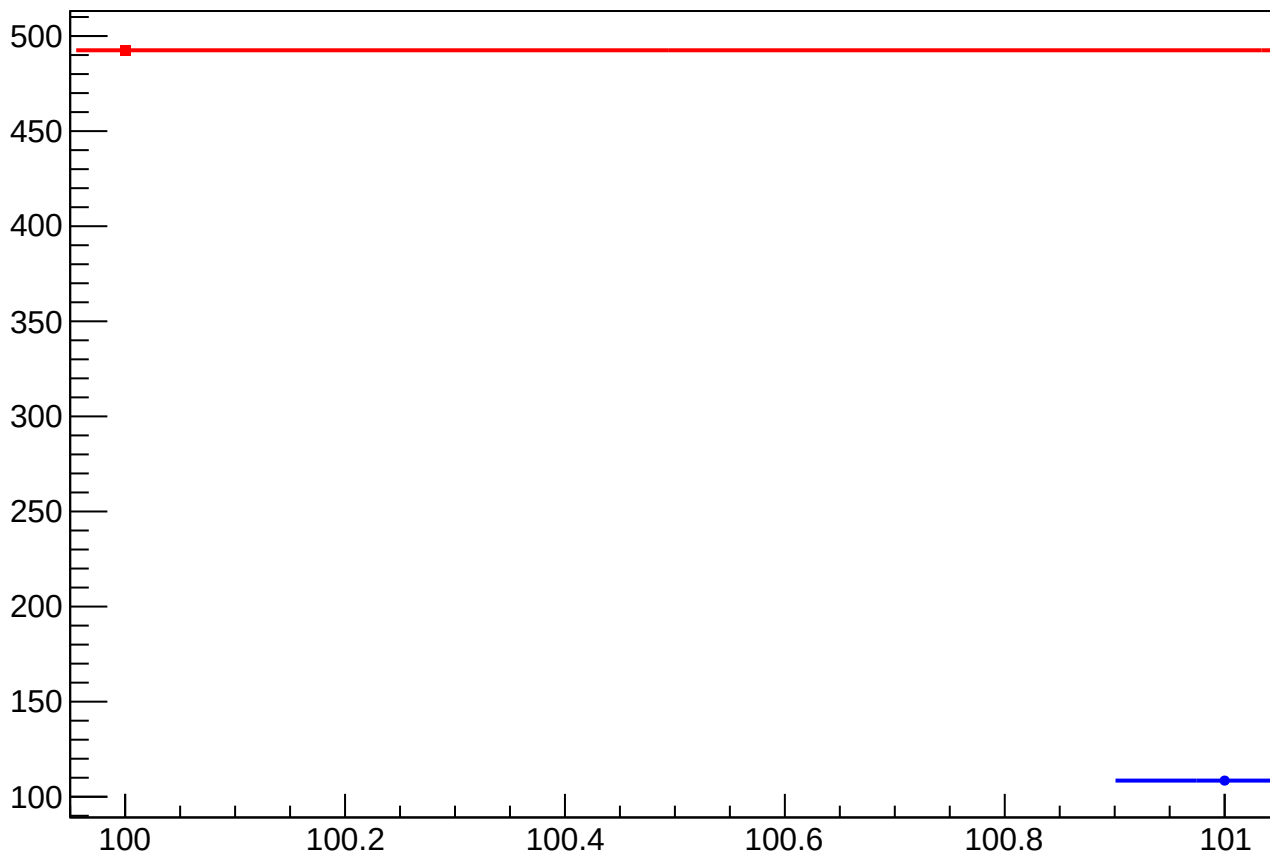
Right: 0.288+/-0.148  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.286+/-0.148  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.288+/-0.148  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usr\_atr1\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 108.495 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 492.507 $\pm$ 1.372  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

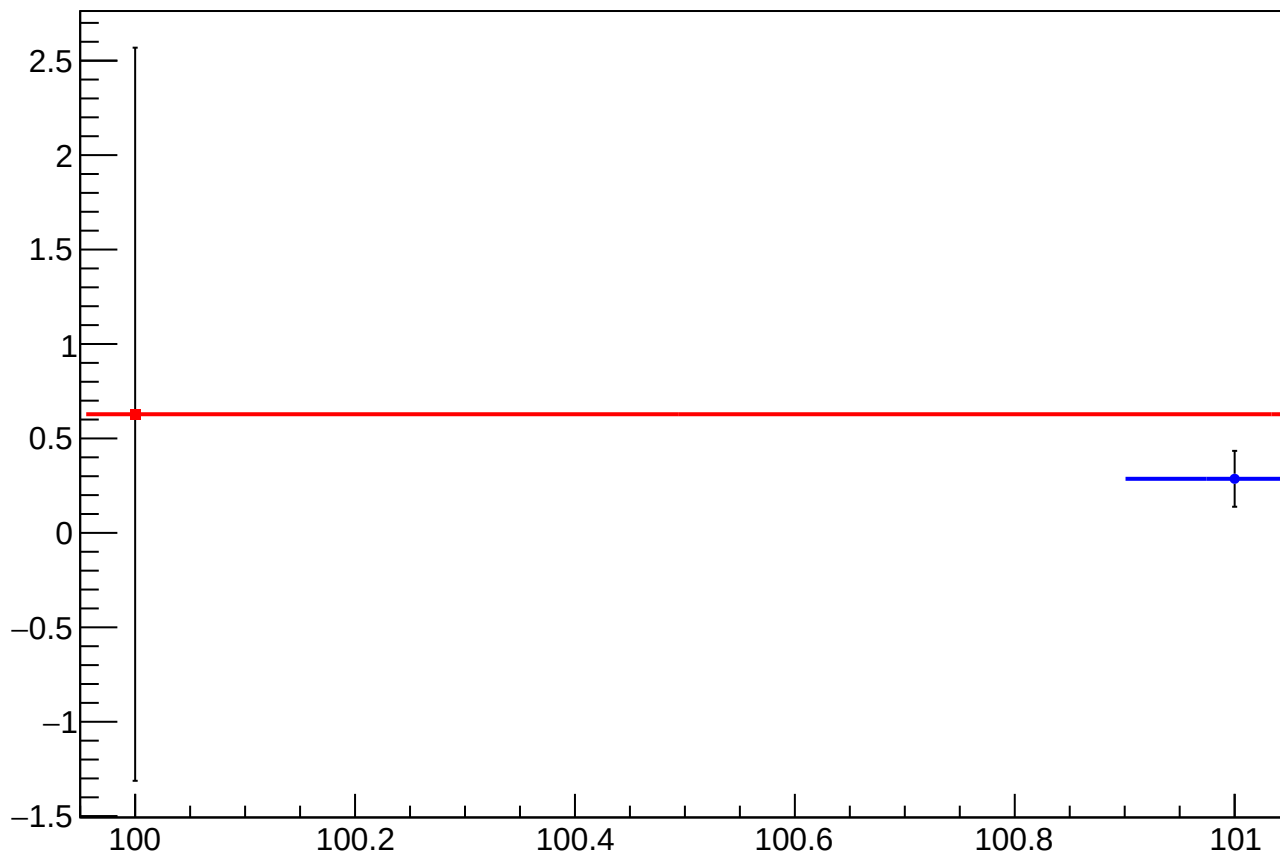
Right: 110.714 $\pm$ 0.104  $\chi^2$ /NDF: 77859.1/1

In: 108.495 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.714 $\pm$ 0.104  $\chi^2$ /NDF: 77859.1/1

asym\_usr\_atr1\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.286 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.628 $\pm$ 1.941  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

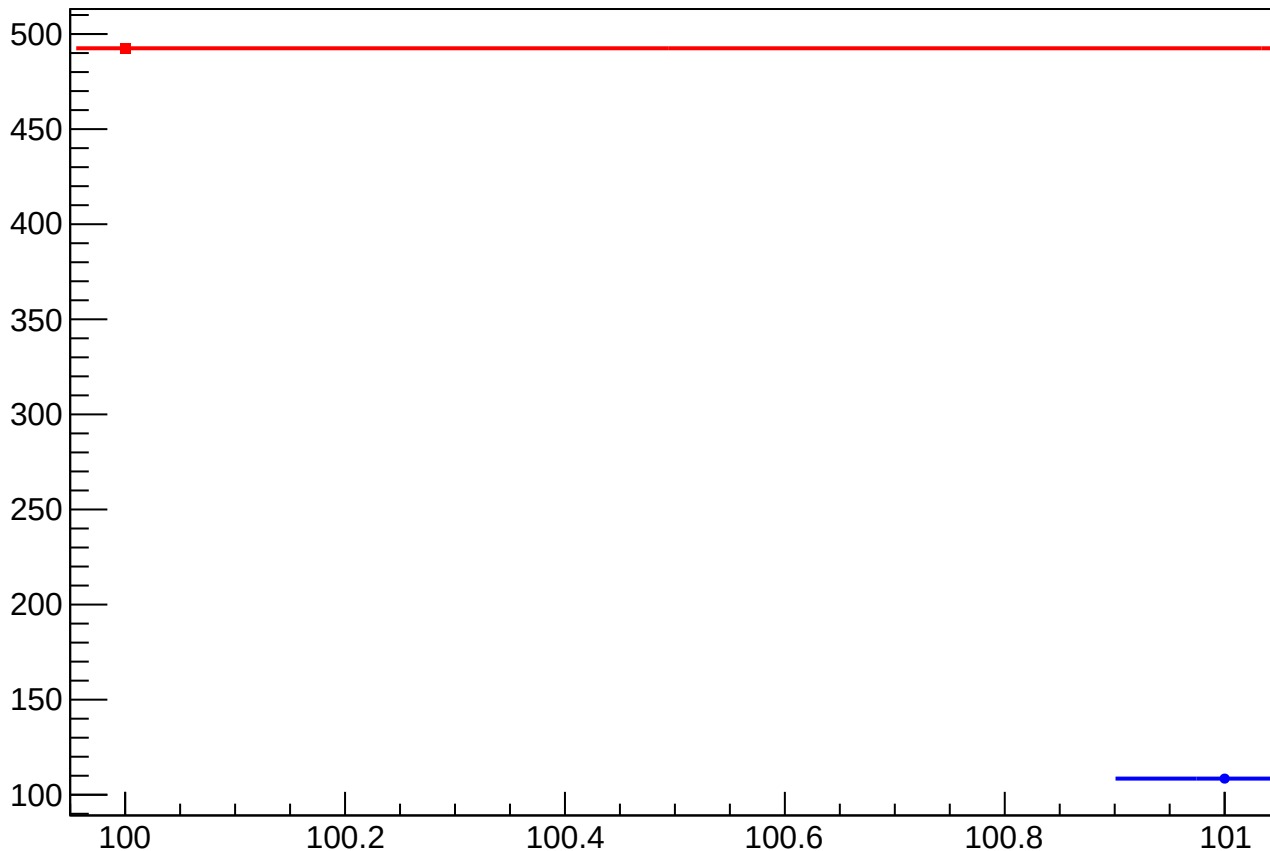
Right: 0.288 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/1

In: 0.286 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.288 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/1

asym\_usr\_atr1\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 108.495 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 492.507 $\pm$ 1.372  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

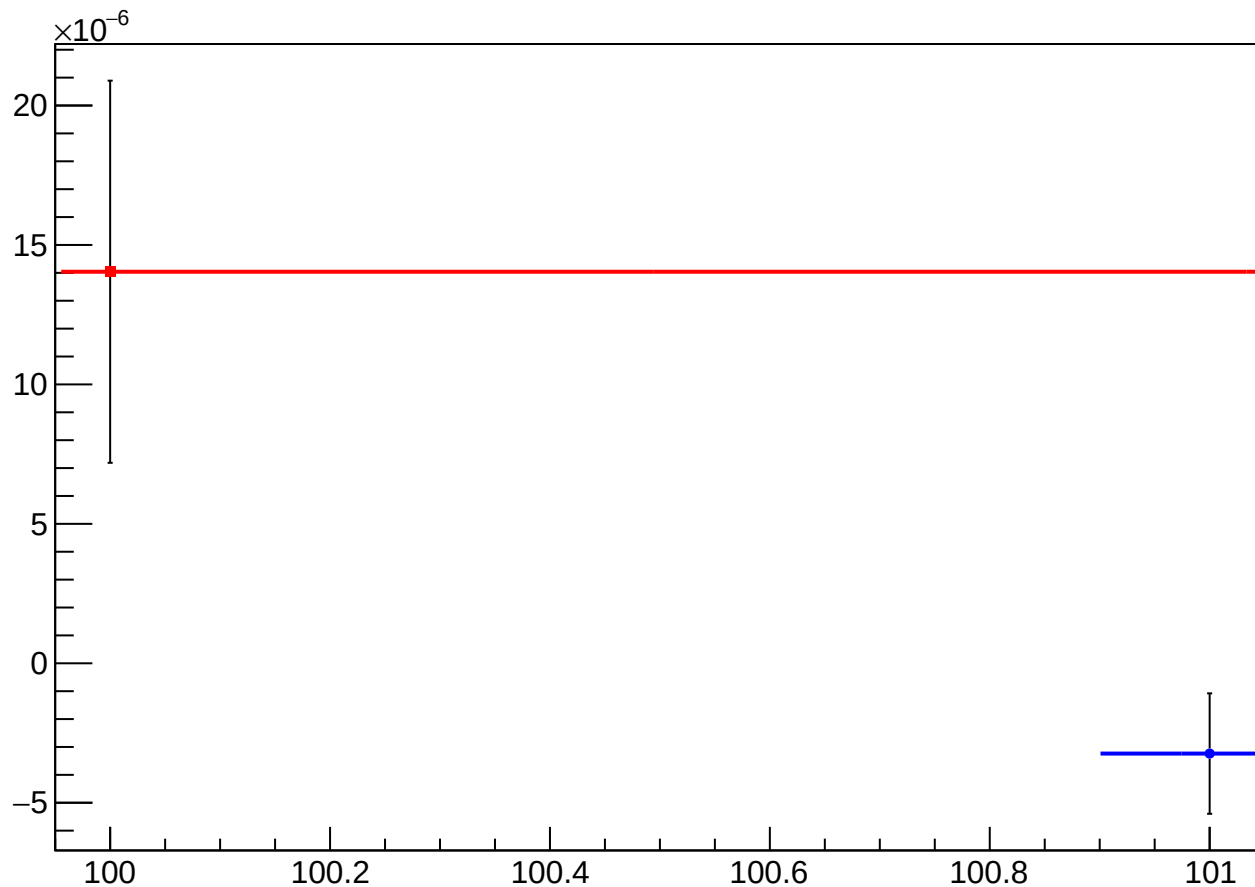
Right: 110.714 $\pm$ 0.104  $\chi^2$ /NDF: 77859.1/1

In: 108.495 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.714 $\pm$ 0.104  $\chi^2$ /NDF: 77859.1/1

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

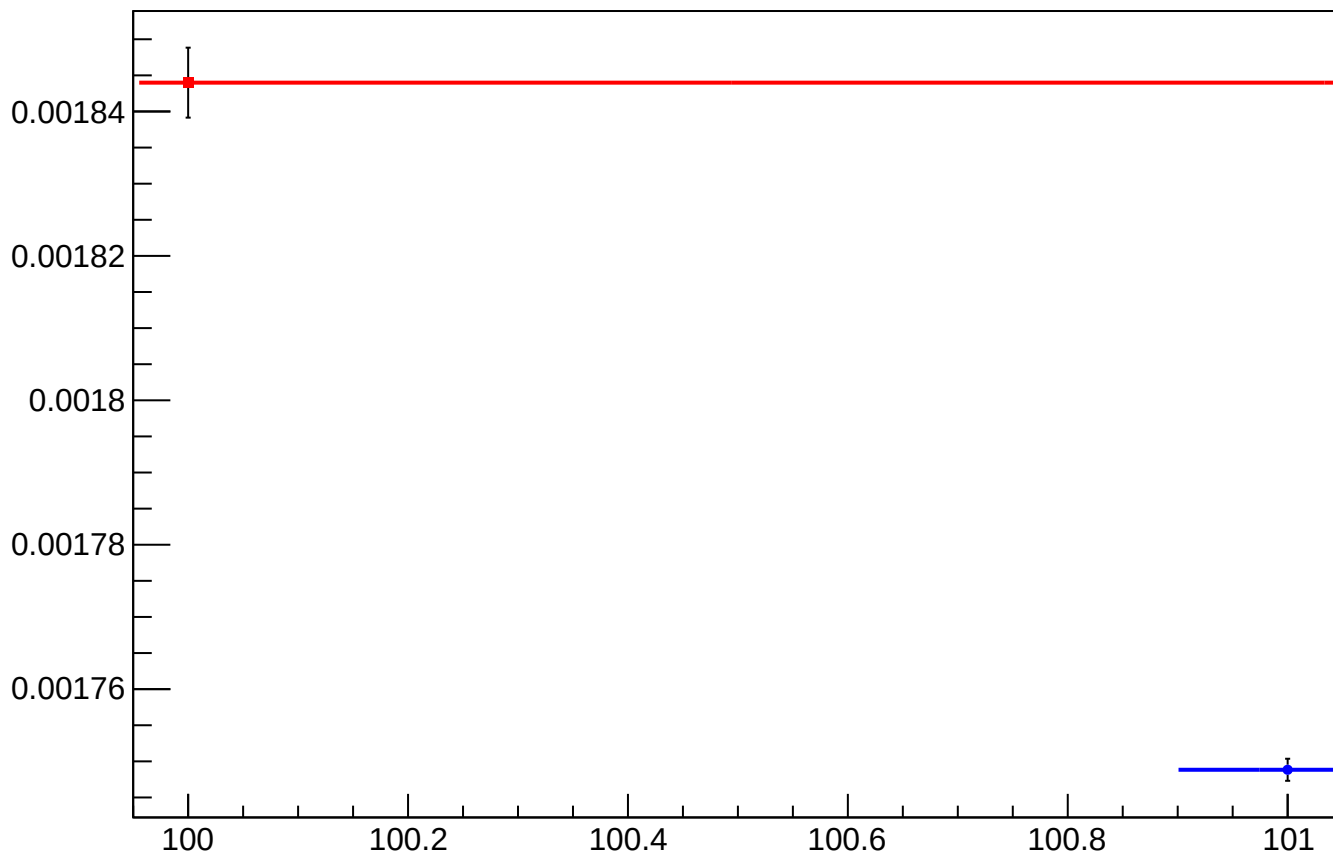
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.8/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.8/1

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

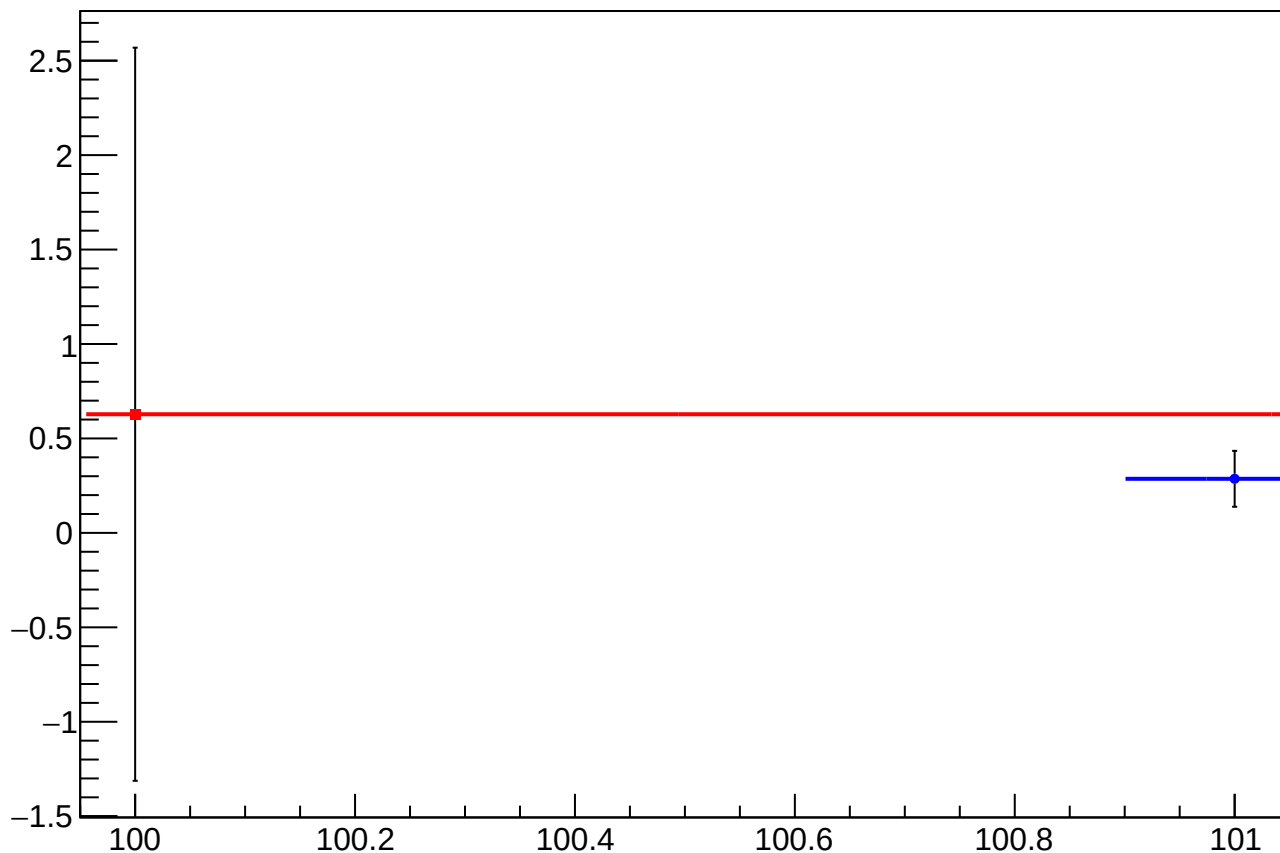
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 350.9/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 350.9/1

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.286 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.628 $\pm$ 1.941  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

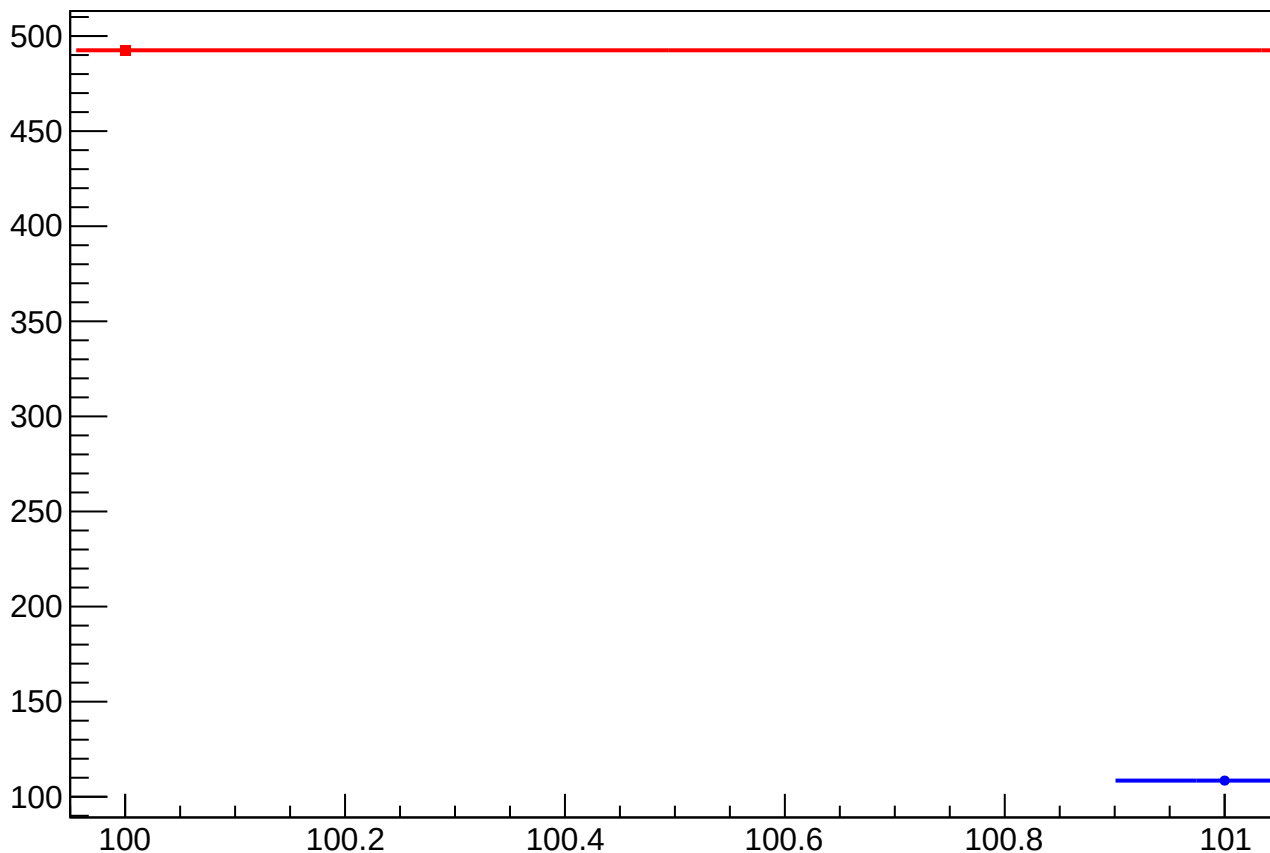
Right: 0.288 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/1

In: 0.286 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.288 $\pm$ 0.148  $\chi^2$ /NDF: 0.0/1

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 108.495 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 492.507 $\pm$ 1.372  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 110.714 $\pm$ 0.104  $\chi^2$ /NDF: 77859.0/1

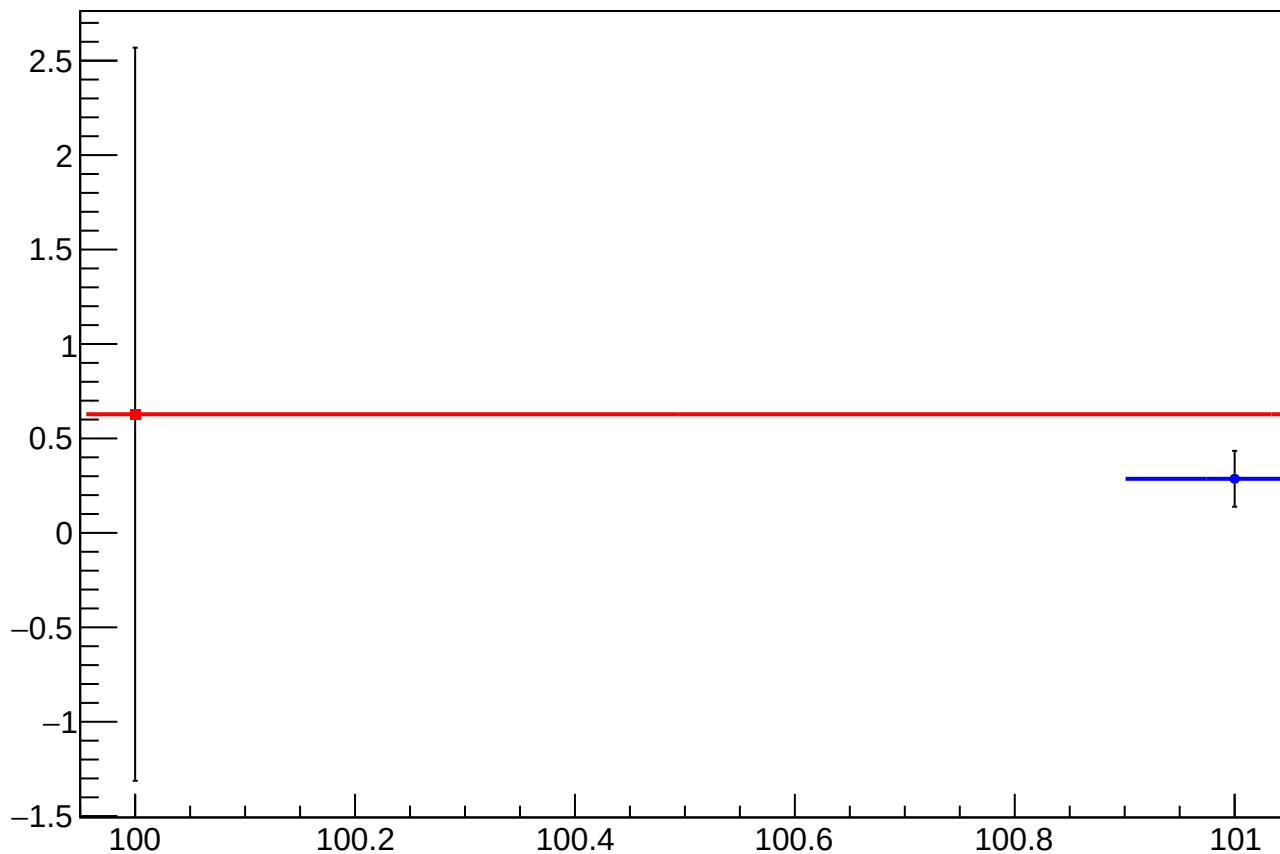
In: 108.495 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.714 $\pm$ 0.104  $\chi^2$ /NDF: 77859.0/1



asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.286+/-0.148  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.628+/-1.941  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

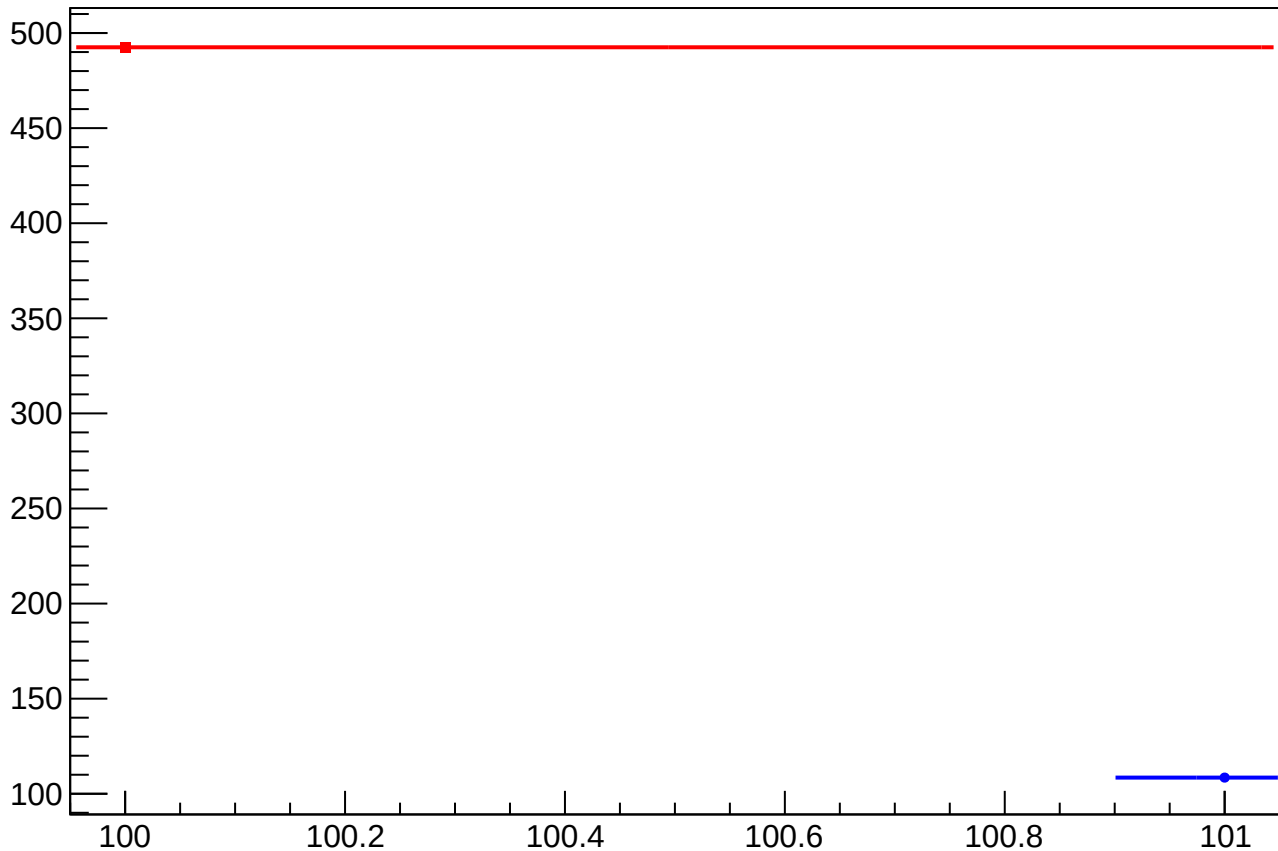
Right: 0.288+/-0.148  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.286+/-0.148  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.288+/-0.148  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usr\_atr1\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 108.495 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 492.507 $\pm$ 1.372  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

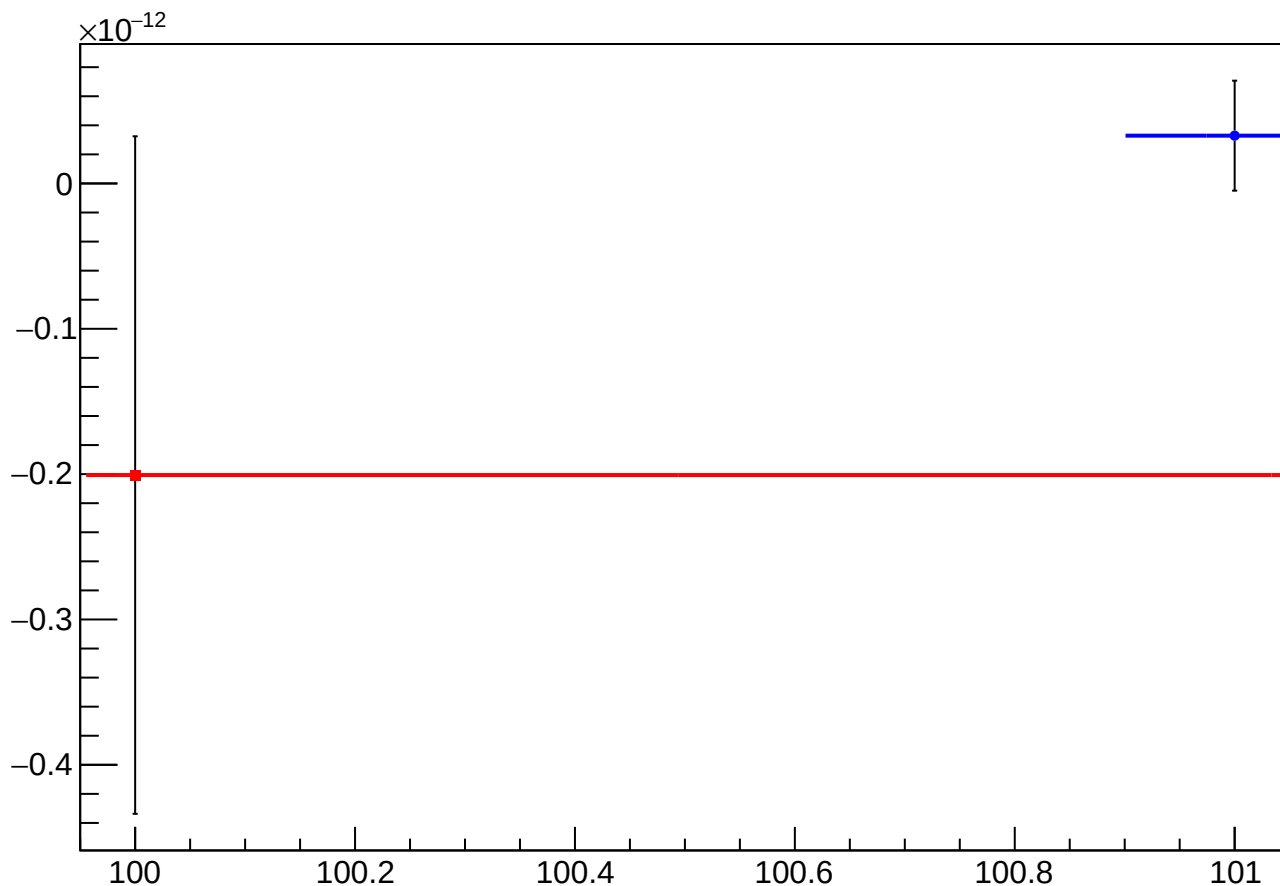
Right: 110.714 $\pm$ 0.104  $\chi^2$ /NDF: 77859.0/1

In: 108.495 $\pm$ 0.105  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.714 $\pm$ 0.104  $\chi^2$ /NDF: 77859.0/1

asym\_usr\_atr1\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

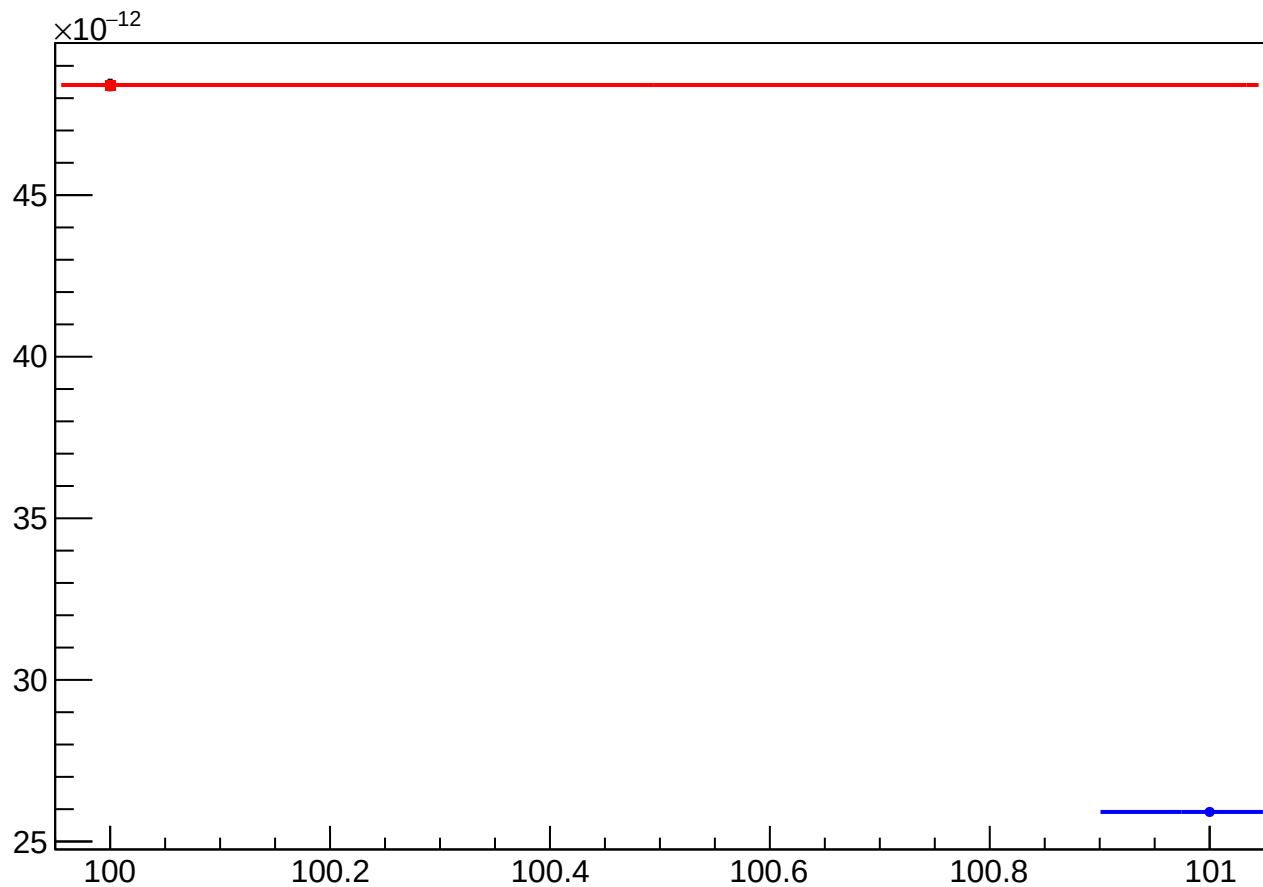
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

asym\_usr\_atr1\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

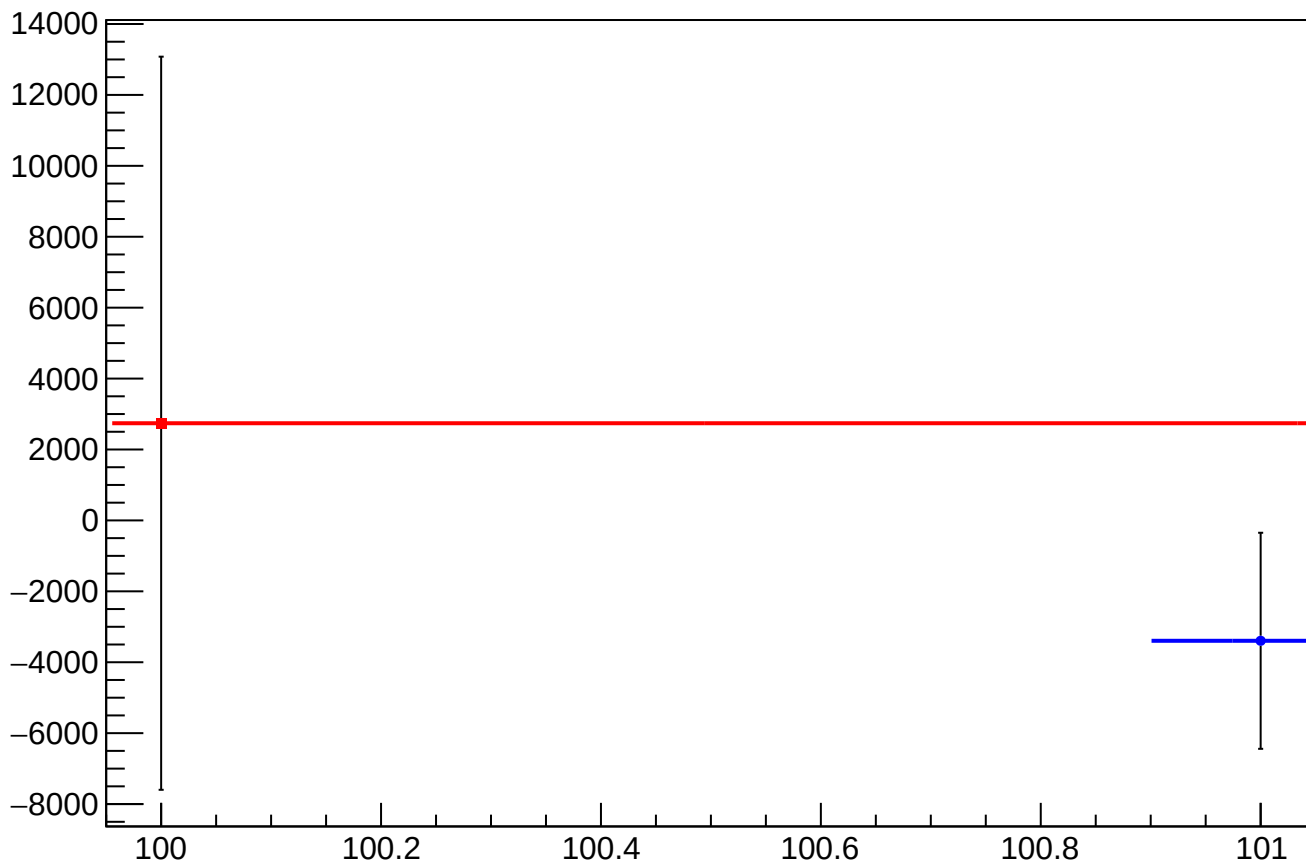
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18146.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 18146.9/1

reg\_asym\_usr\_atr2\_avg\_mean vs Slug, Sign Corrected



Right In: -3395.127+/-3046.799  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2740.556+/-10338.038  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

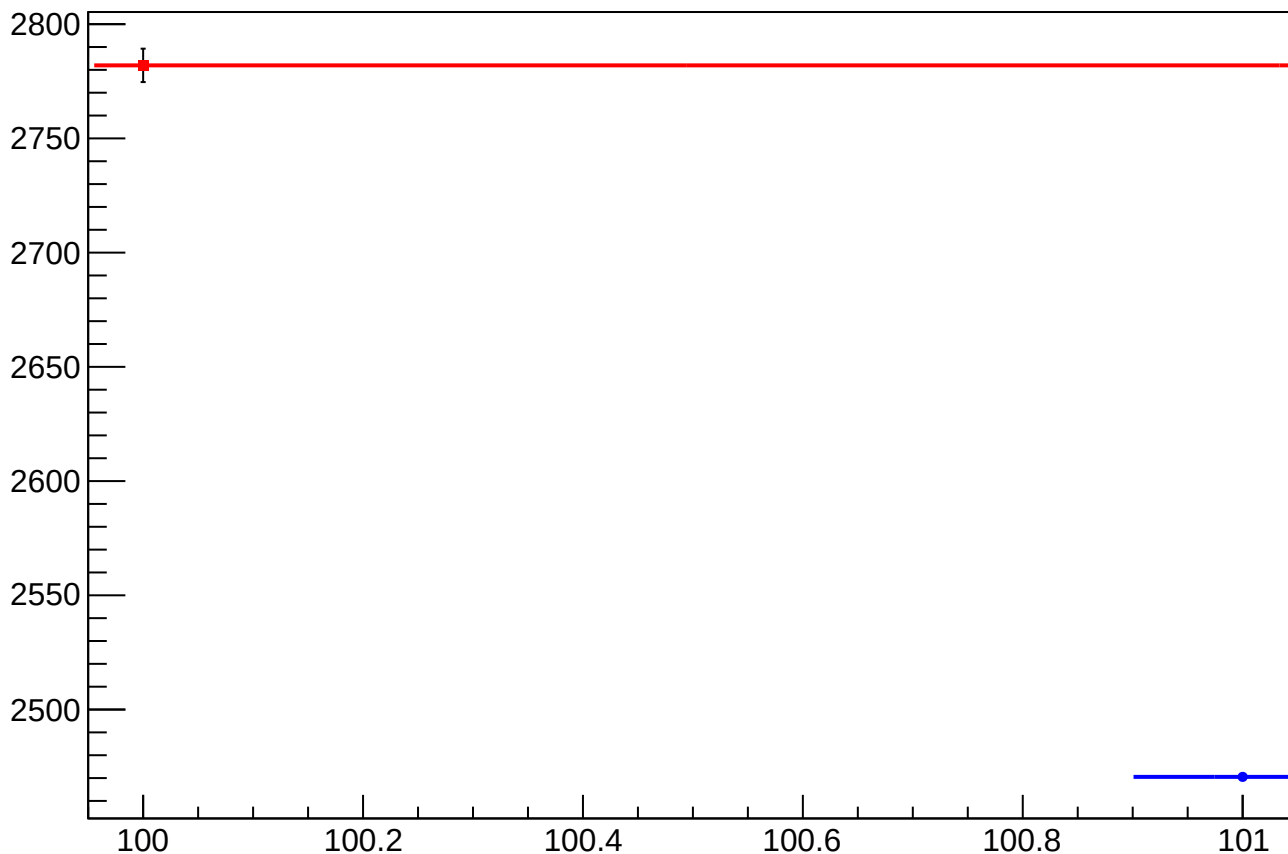
Right: -2904.782+/-2922.519  $\chi^2/\text{NDF}$ : 0.3/1

In: -3395.127+/-3046.799  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2904.782+/-2922.519  $\chi^2/\text{NDF}$ : 0.3/1

reg\_asym\_usr\_atr2\_avg\_rms vs Slug, Sign Corrected



Right In: 2470.525 $\pm$ 2.154  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2781.966 $\pm$ 7.310  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

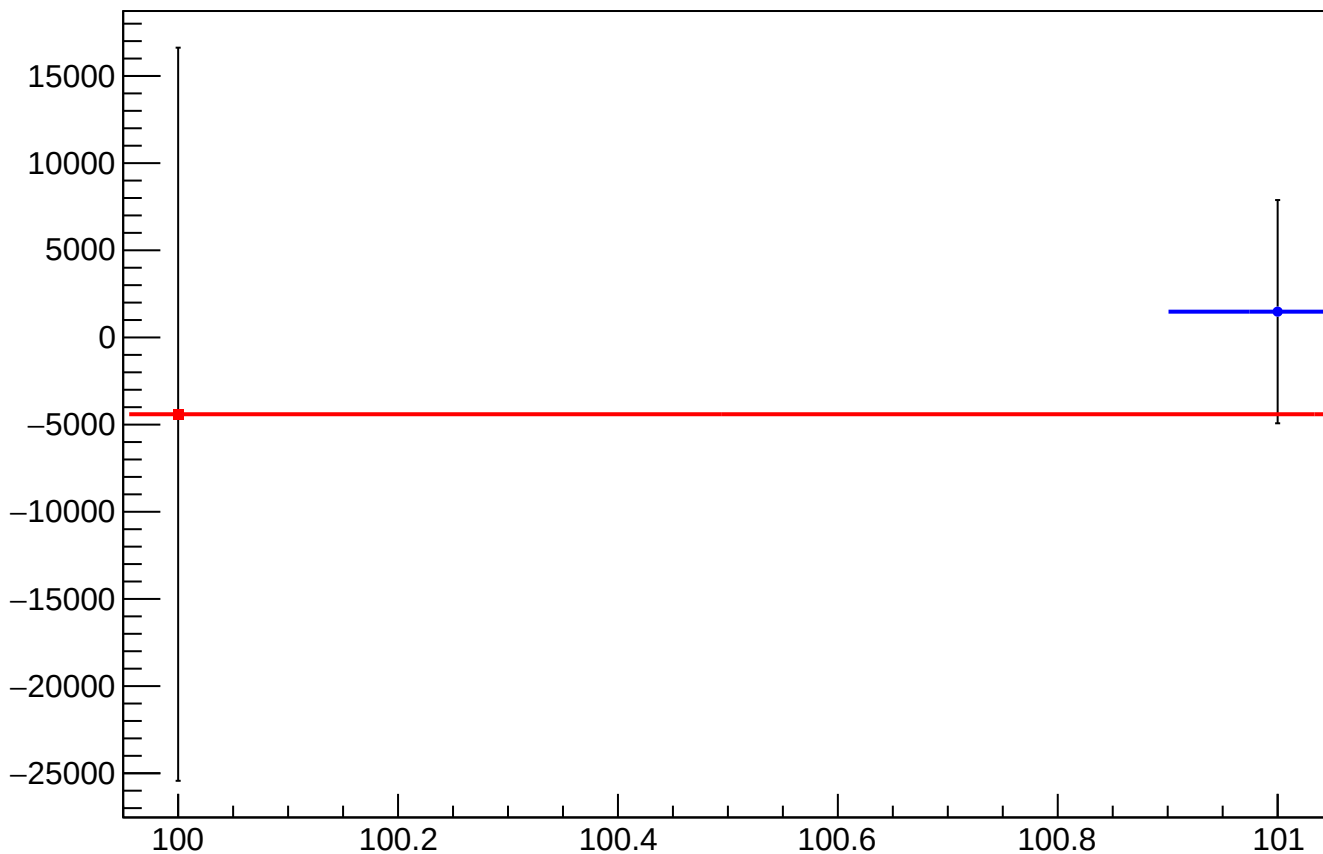
Right: 2495.414 $\pm$ 2.067  $\chi^2$ /NDF: 1670.1/1

In: 2470.525 $\pm$ 2.154  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2495.414 $\pm$ 2.067  $\chi^2$ /NDF: 1670.1/1

asym\_usr\_atr2\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1479.586+/-6403.429  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4404.444+/-21028.237  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

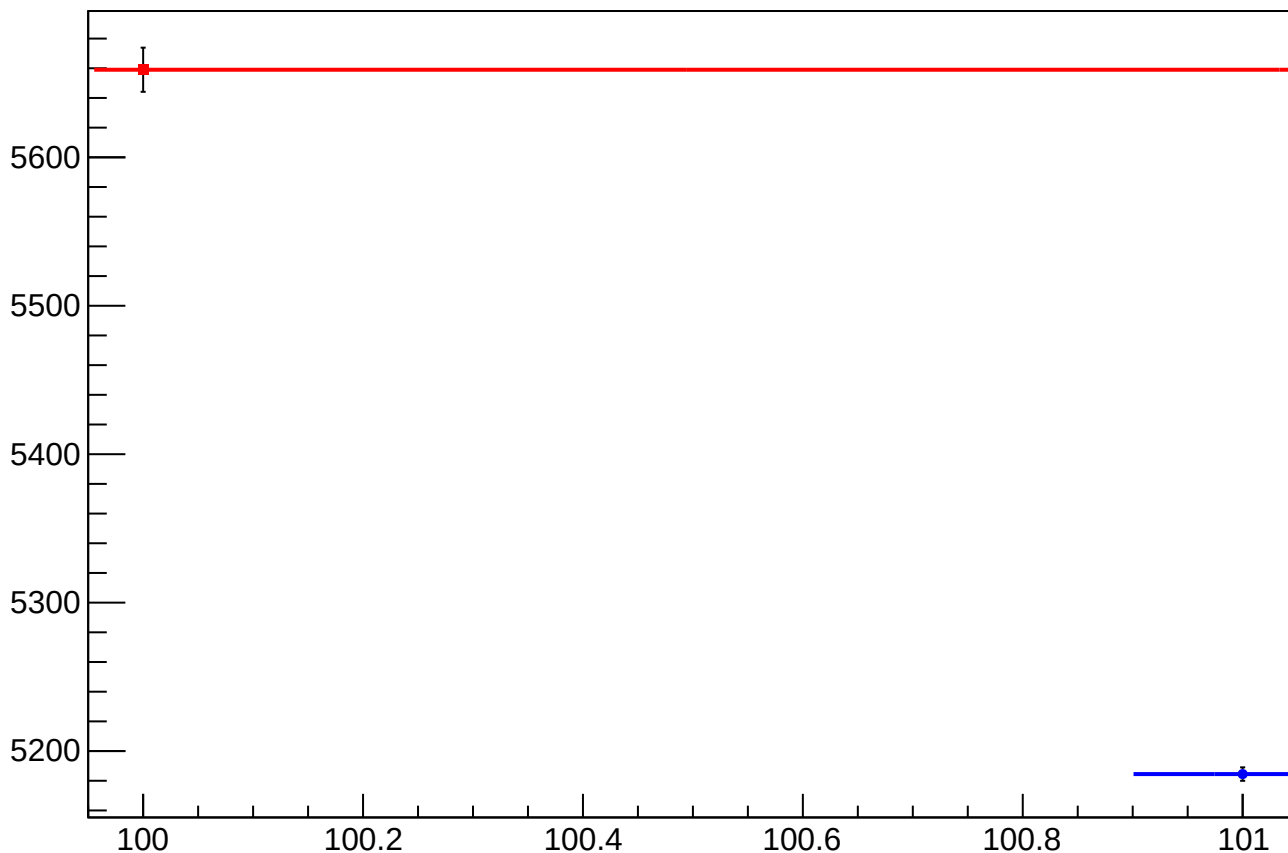
Right: 980.263+/-6125.706  $\chi^2/\text{NDF}$ : 0.1/1

In: 1479.586+/-6403.429  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 980.263+/-6125.706  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr2\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 5184.501+/-4.528  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5659.006+/-14.869  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 5224.768+/-4.332  $\chi^2$ /NDF: 932.0/1

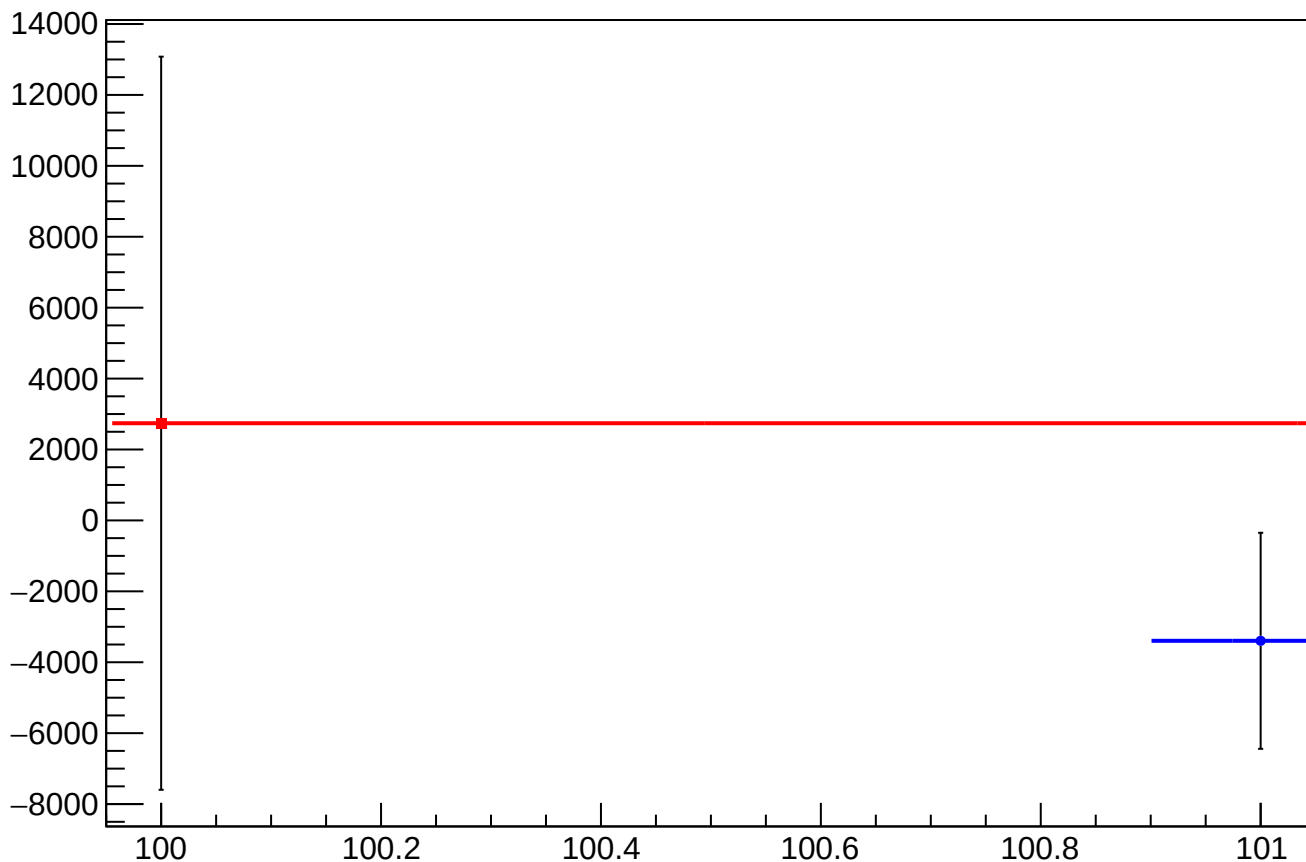
In: 5184.501+/-4.528  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 5224.768+/-4.332  $\chi^2$ /NDF: 932.0/1



cor\_asym\_usr\_atr2\_avg\_mean vs Slug, Sign Corrected



Right In: -3395.353+/-3046.799  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2740.737+/-10338.038  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

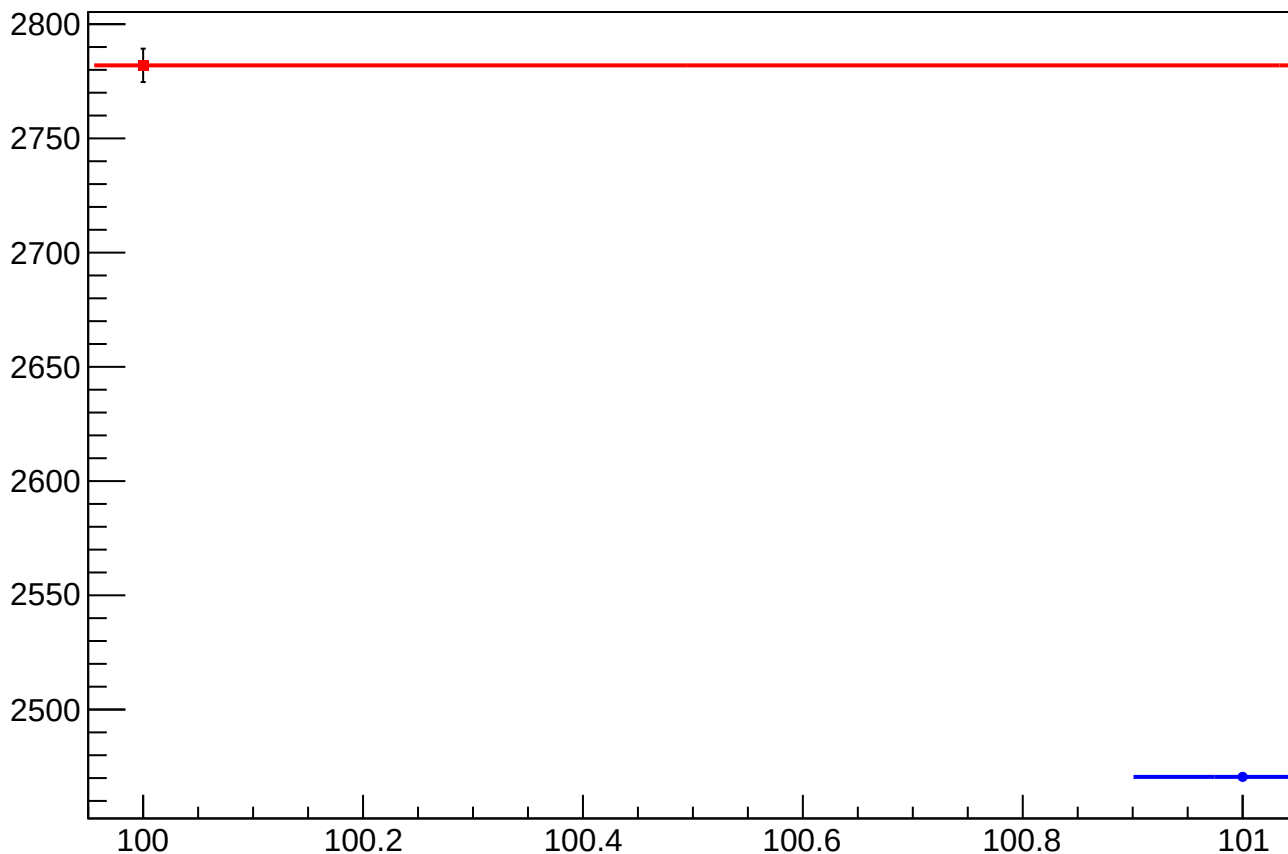
Right: -2904.976+/-2922.519  $\chi^2/\text{NDF}$ : 0.3/1

In: -3395.353+/-3046.799  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2904.976+/-2922.519  $\chi^2/\text{NDF}$ : 0.3/1

cor\_asym\_usr\_atr2\_avg\_rms vs Slug, Sign Corrected



Right In: 2470.525+/-2.154  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2781.966+/-7.310  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

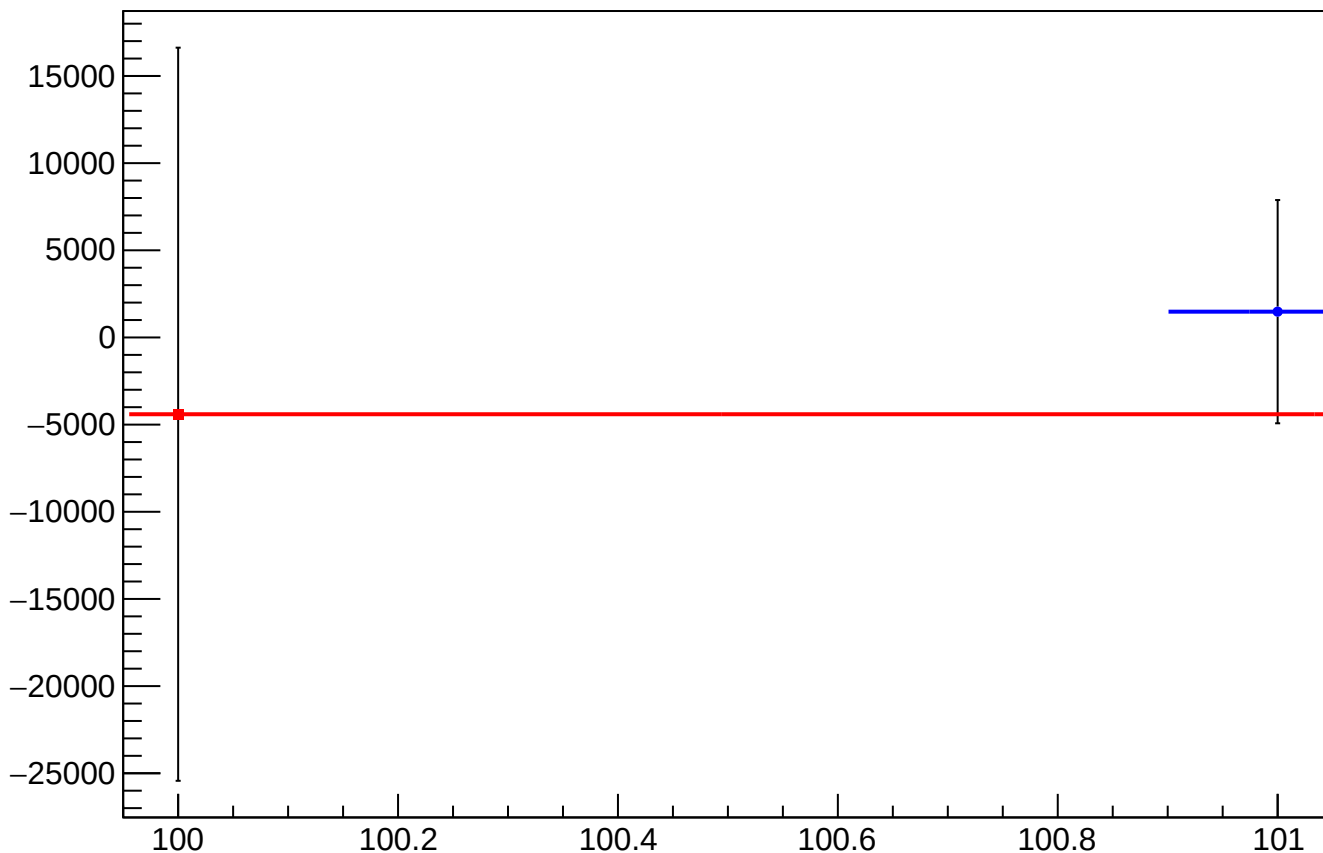
Right: 2495.414+/-2.067  $\chi^2/\text{NDF}$ : 1670.1/1

In: 2470.525+/-2.154  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2495.414+/-2.067  $\chi^2/\text{NDF}$ : 1670.1/1

asym\_usr\_atr2\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1479.561+/-6403.427  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4404.238+/-21028.212  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

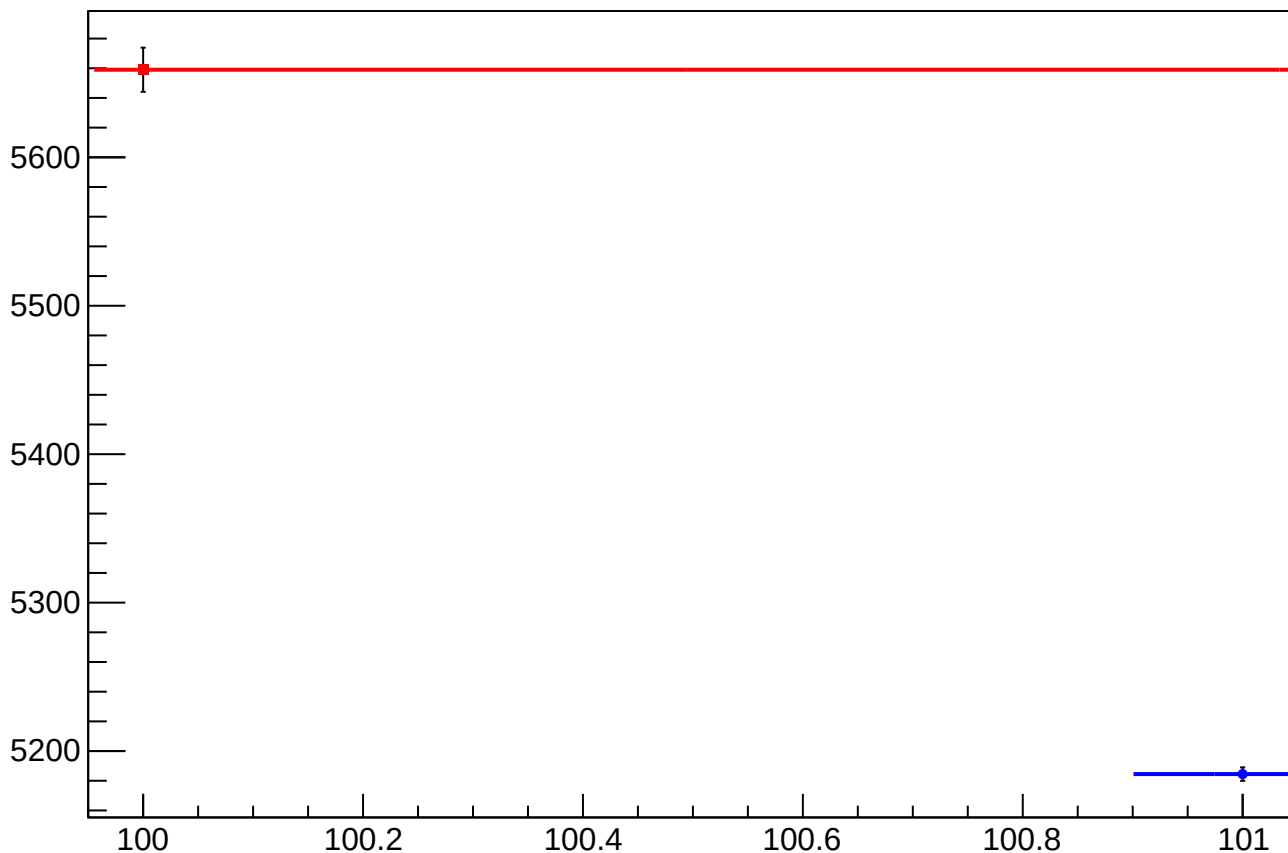
Right: 980.257+/-6125.704  $\chi^2/\text{NDF}$ : 0.1/1

In: 1479.561+/-6403.427  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 980.257+/-6125.704  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr2\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5184.499+/-4.528  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5658.999+/-14.869  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

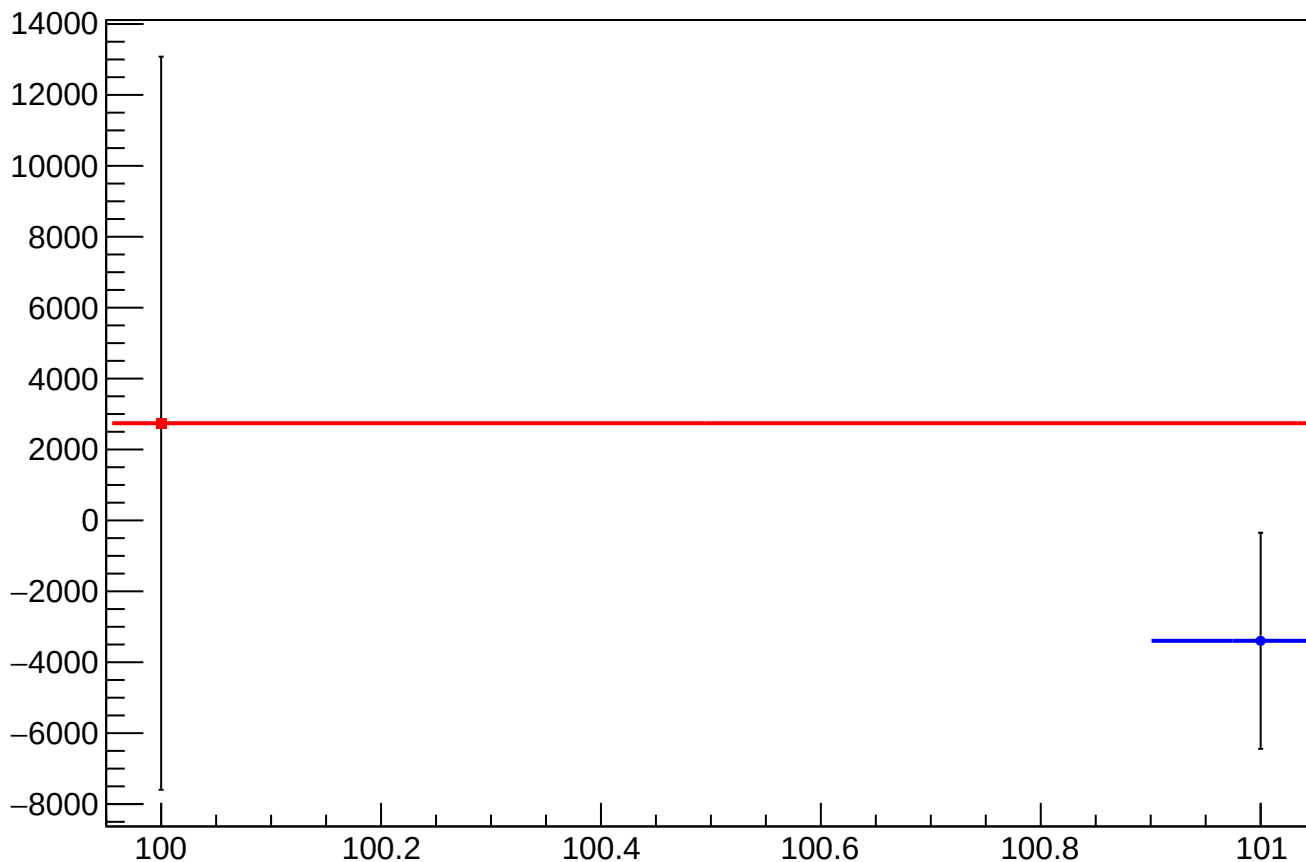
Right: 5224.765+/-4.332  $\chi^2/\text{NDF}$ : 931.9/1

In: 5184.499+/-4.528  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5224.765+/-4.332  $\chi^2/\text{NDF}$ : 931.9/1

eigen\_cor\_asym\_usr\_atr2\_avg\_mean vs Slug, Sign Corrected



Right In: -3395.353+/-3046.799  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2740.737+/-10338.038  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

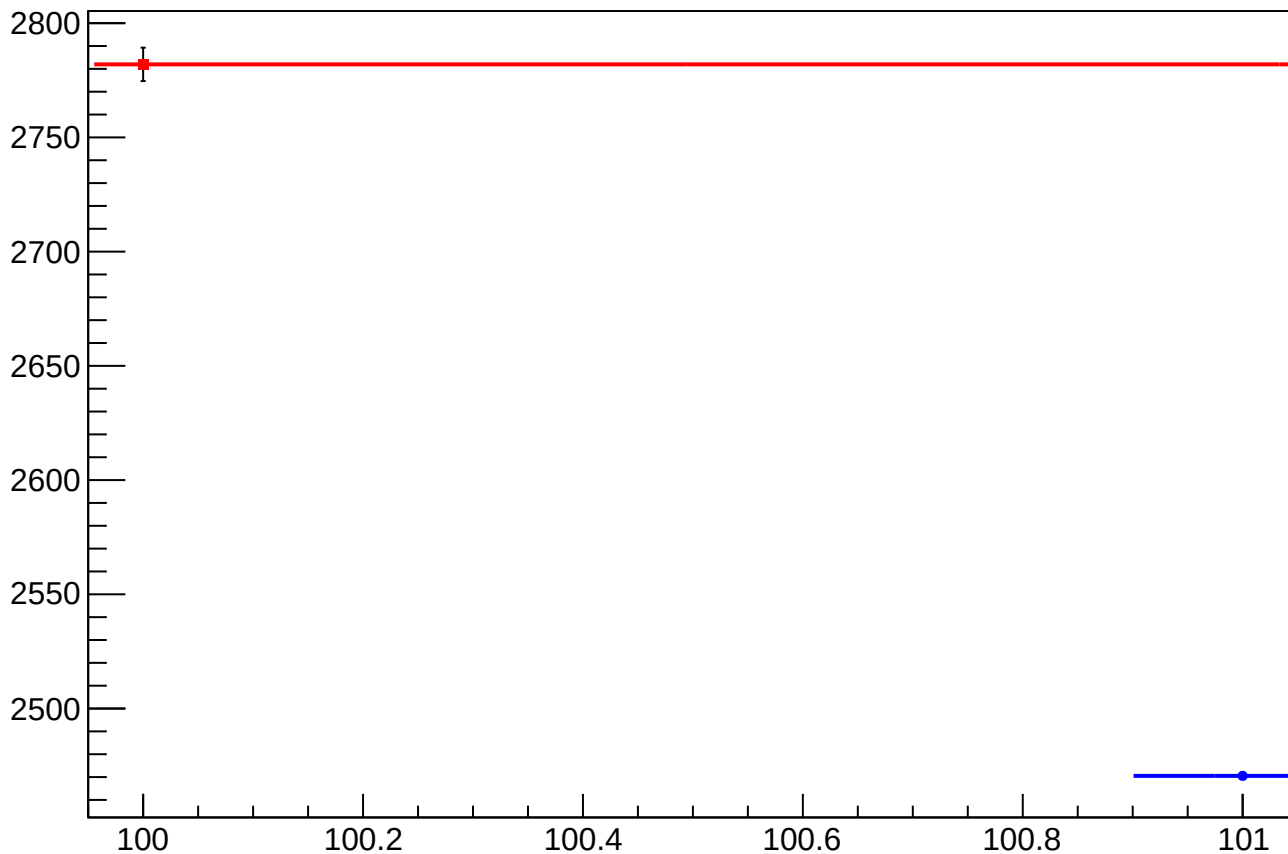
Right: -2904.976+/-2922.519  $\chi^2/\text{NDF}$ : 0.3/1

In: -3395.353+/-3046.799  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2904.976+/-2922.519  $\chi^2/\text{NDF}$ : 0.3/1

eigen\_cor\_asym\_usr\_atr2\_avg\_rms vs Slug, Sign Corrected



Right In: 2470.525+/-2.154  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2781.966+/-7.310  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

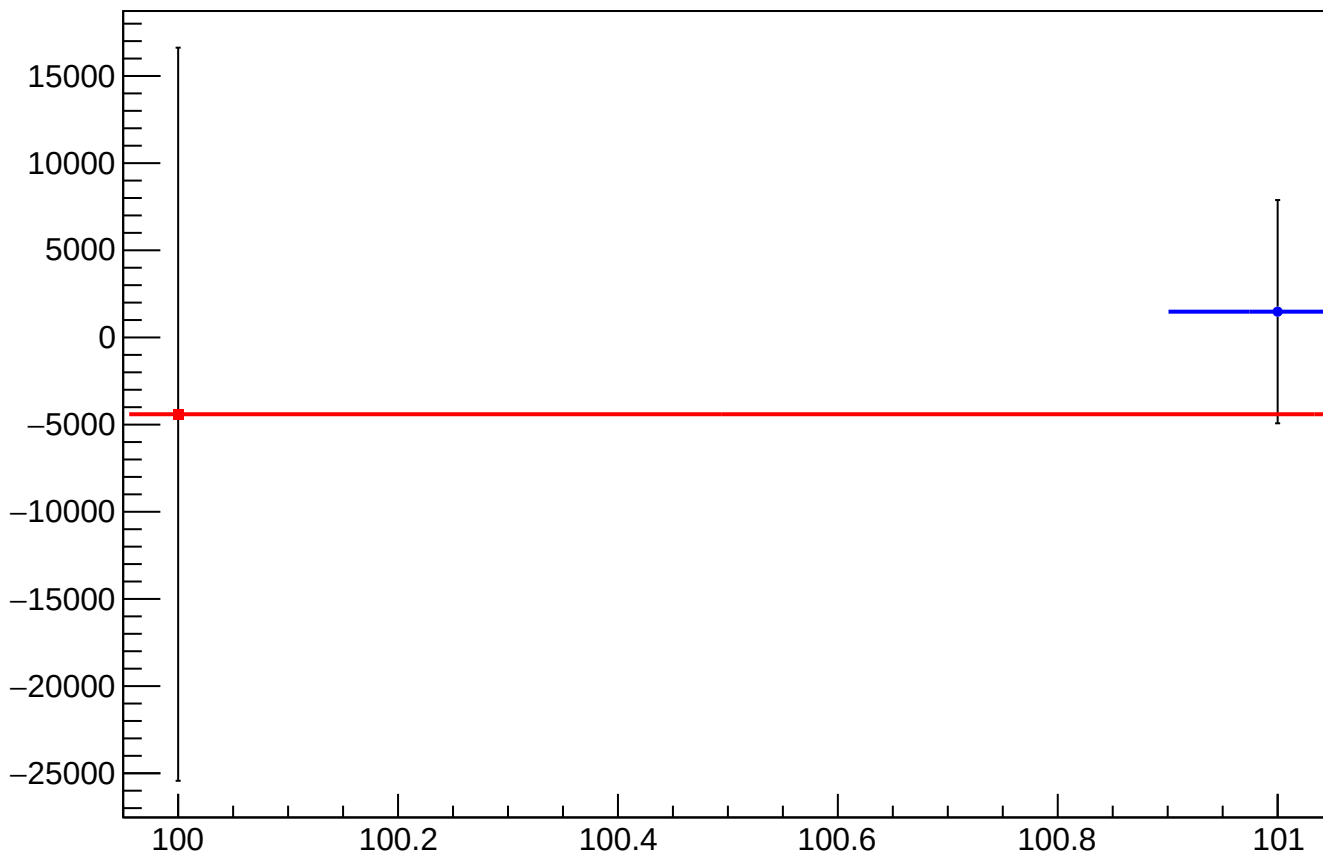
Right: 2495.414+/-2.067  $\chi^2/\text{NDF}$ : 1670.1/1

In: 2470.525+/-2.154  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2495.414+/-2.067  $\chi^2/\text{NDF}$ : 1670.1/1

asym\_usr\_atr2\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1479.561+/-6403.427  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4404.238+/-21028.212  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

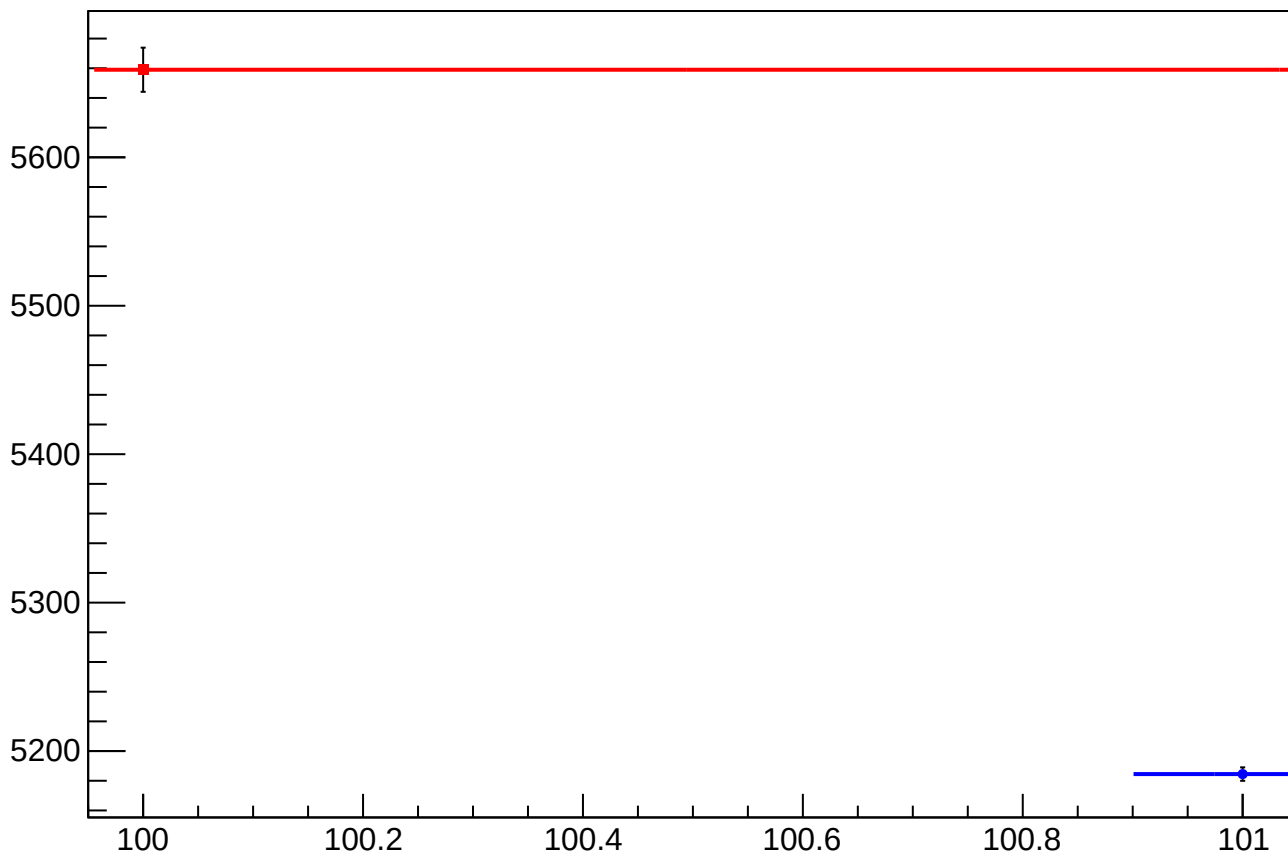
Right: 980.257+/-6125.704  $\chi^2/\text{NDF}$ : 0.1/1

In: 1479.561+/-6403.427  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 980.257+/-6125.704  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr2\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5184.499+/-4.528  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5658.999+/-14.869  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 5224.765+/-4.332  $\chi^2$ /NDF: 931.9/1

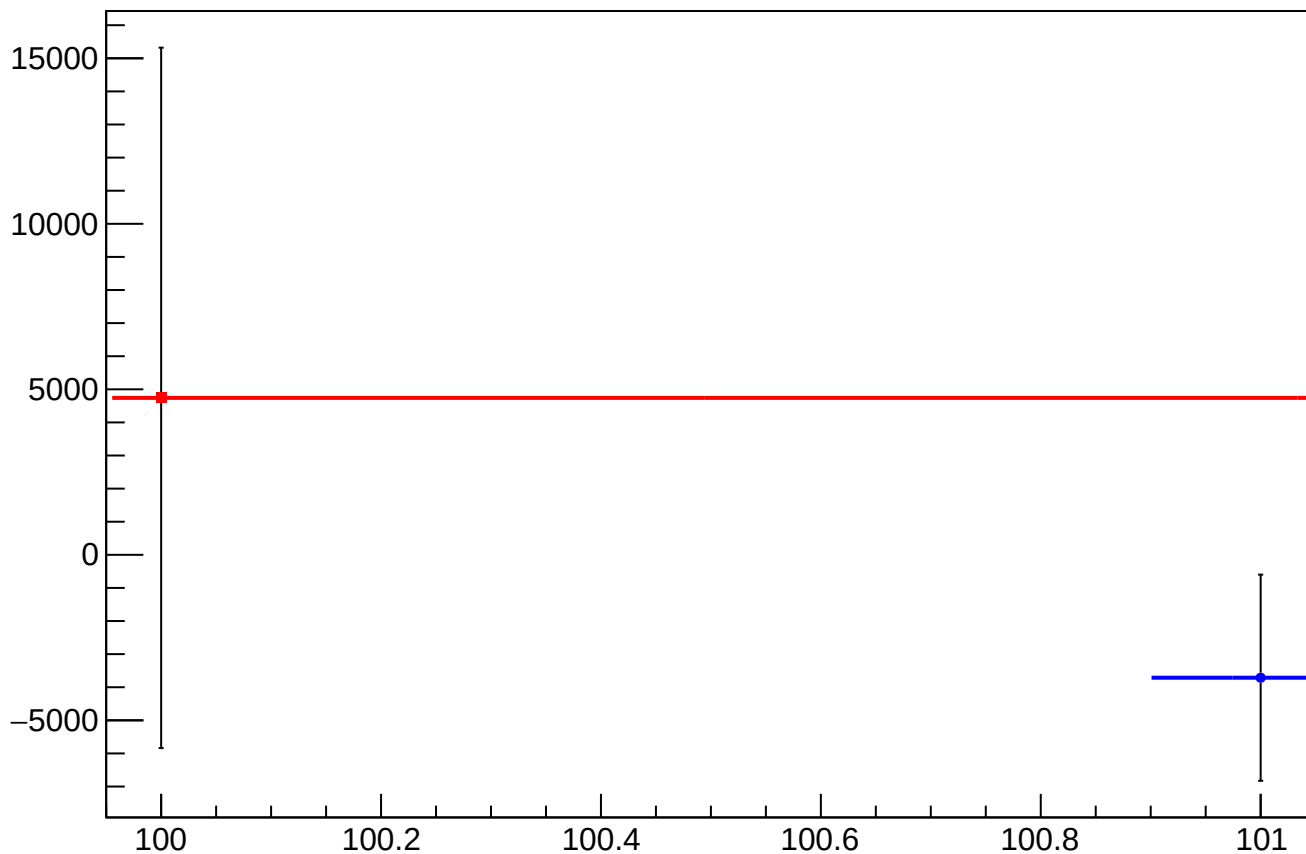
In: 5184.499+/-4.528  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 5224.765+/-4.332  $\chi^2$ /NDF: 931.9/1



dit\_asym\_usr\_atr2\_avg\_mean vs Slug, Sign Corrected



Right In: -3712.355+/-3114.412  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4741.379+/-10579.837  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

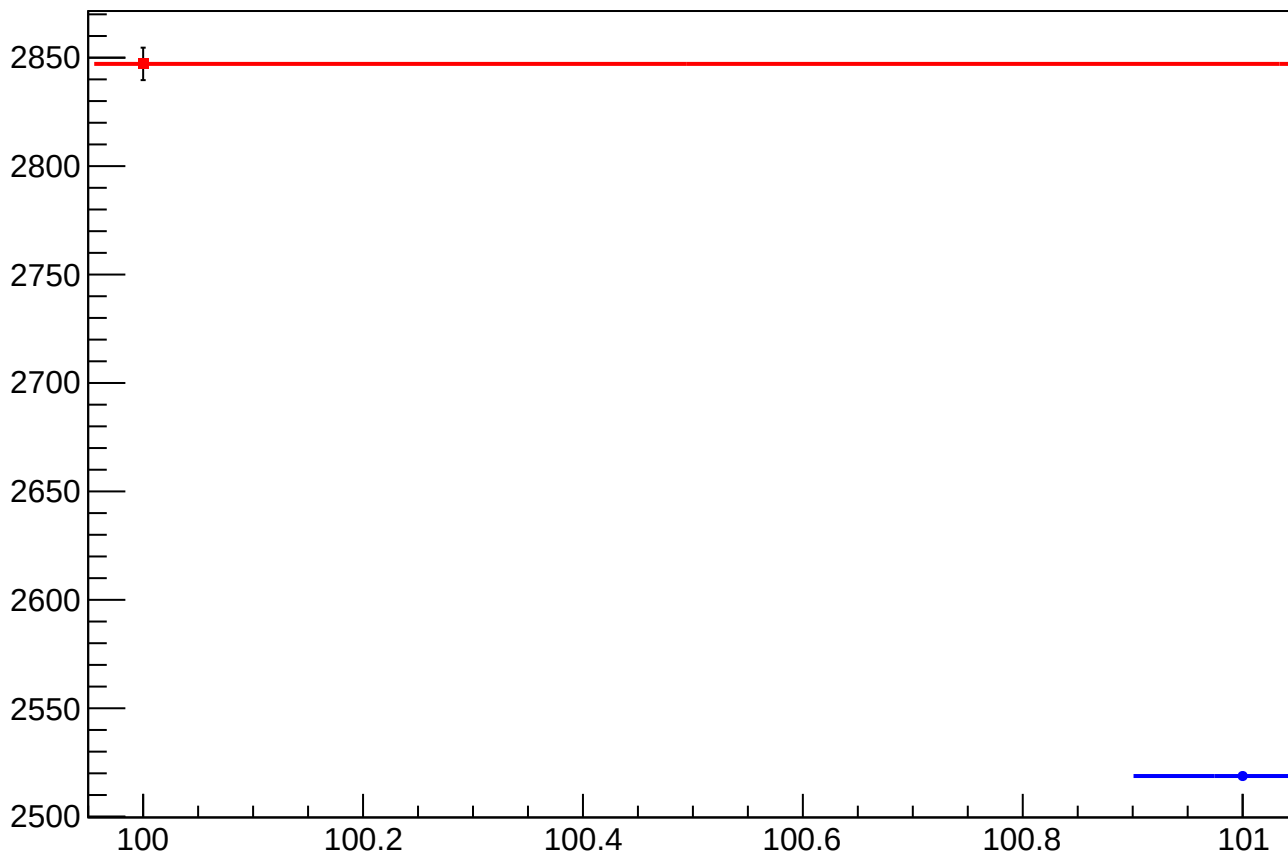
Right: -3038.213+/-2987.653  $\chi^2/\text{NDF}$ : 0.6/1

In: -3712.355+/-3114.412  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3038.213+/-2987.653  $\chi^2/\text{NDF}$ : 0.6/1

dit\_asym\_usr\_atr2\_avg\_rms vs Slug, Sign Corrected



Right In: 2518.758 $\pm$ 2.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2847.141 $\pm$ 7.481  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

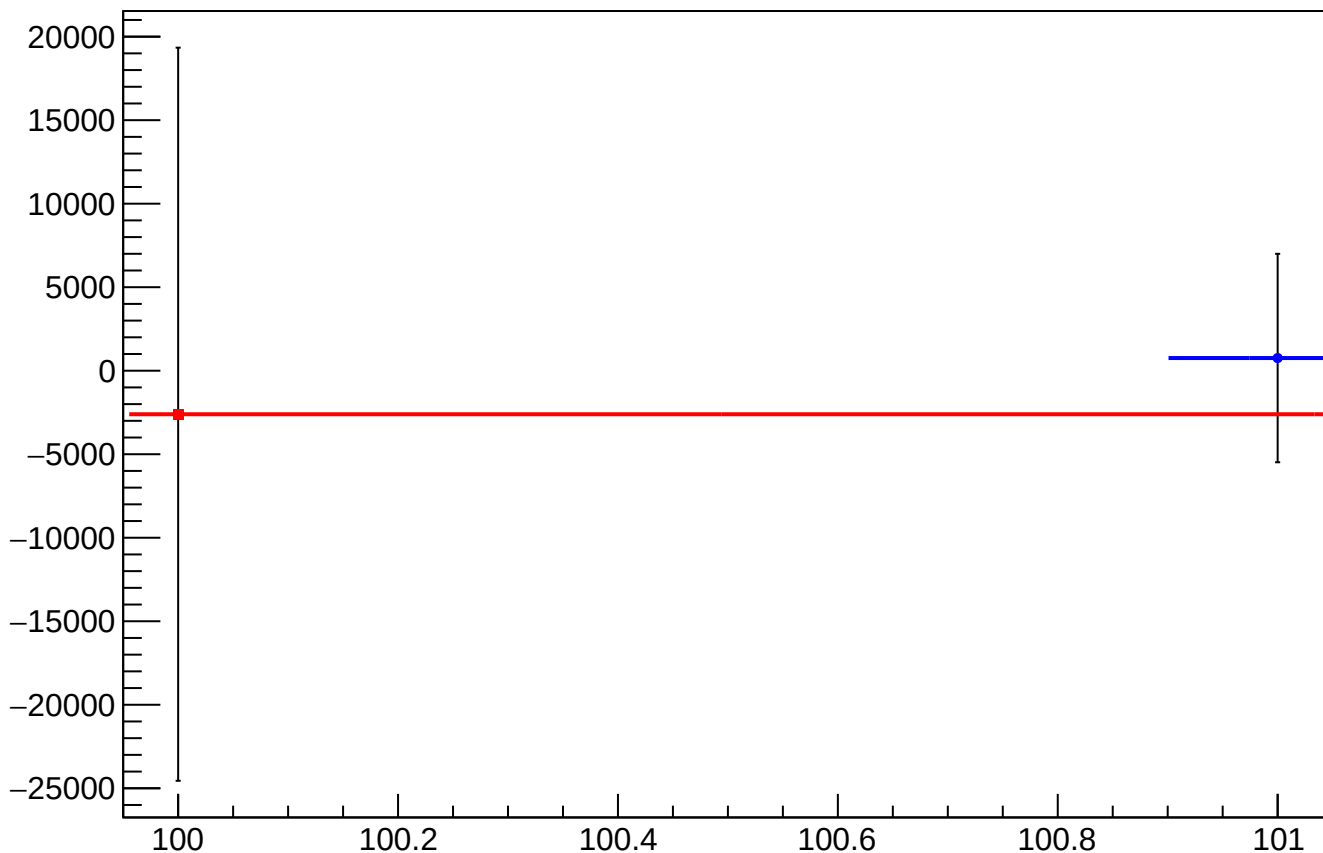
Right: 2544.945 $\pm$ 2.113  $\chi^2$ /NDF: 1773.1/1

In: 2518.758 $\pm$ 2.202  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2544.945 $\pm$ 2.113  $\chi^2$ /NDF: 1773.1/1

asym\_usr\_atr2\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 758.401+/-6239.507  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2605.710+/-21946.562  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

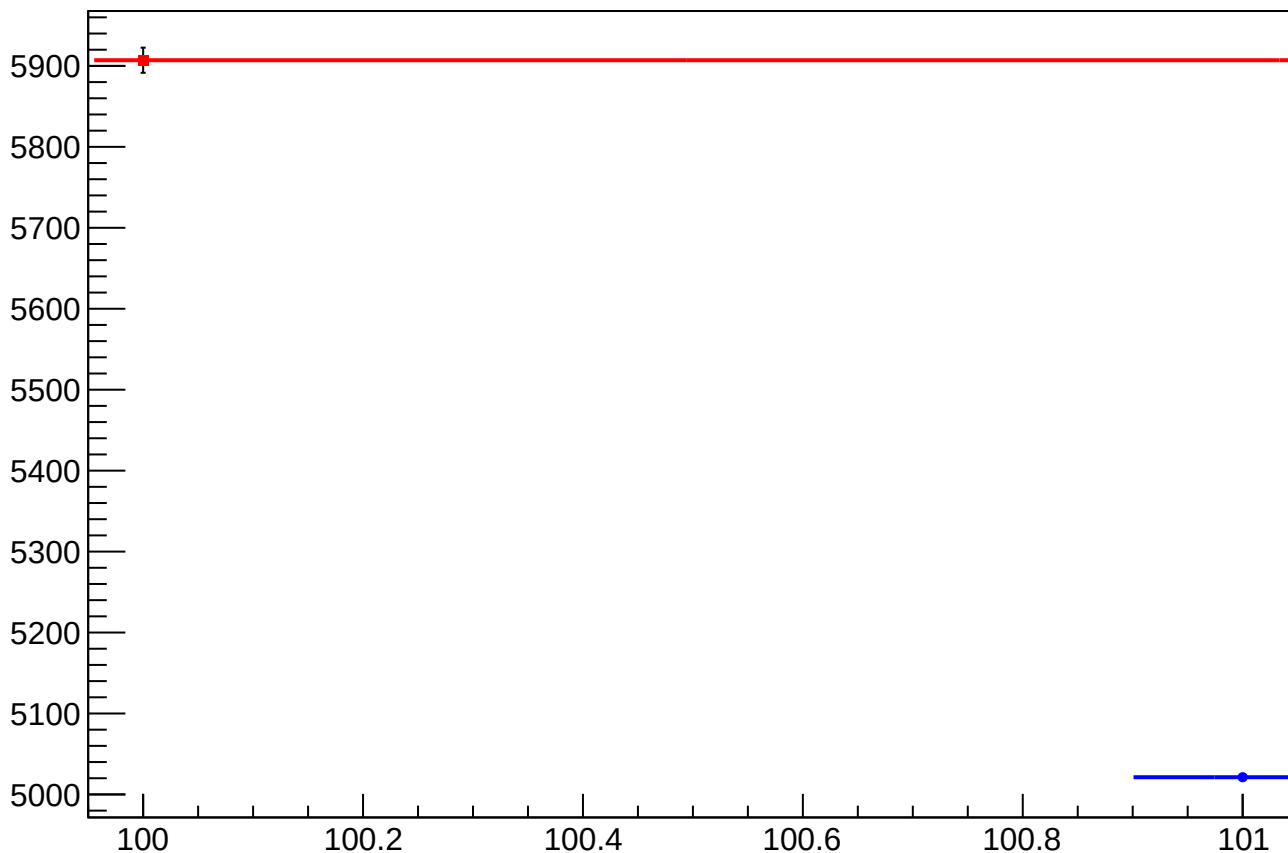
Right: 506.818+/-6001.665  $\chi^2/\text{NDF}$ : 0.0/1

In: 758.401+/-6239.507  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 506.818+/-6001.665  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usr\_atr2\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5021.257+/-4.412  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5907.010+/-15.519  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

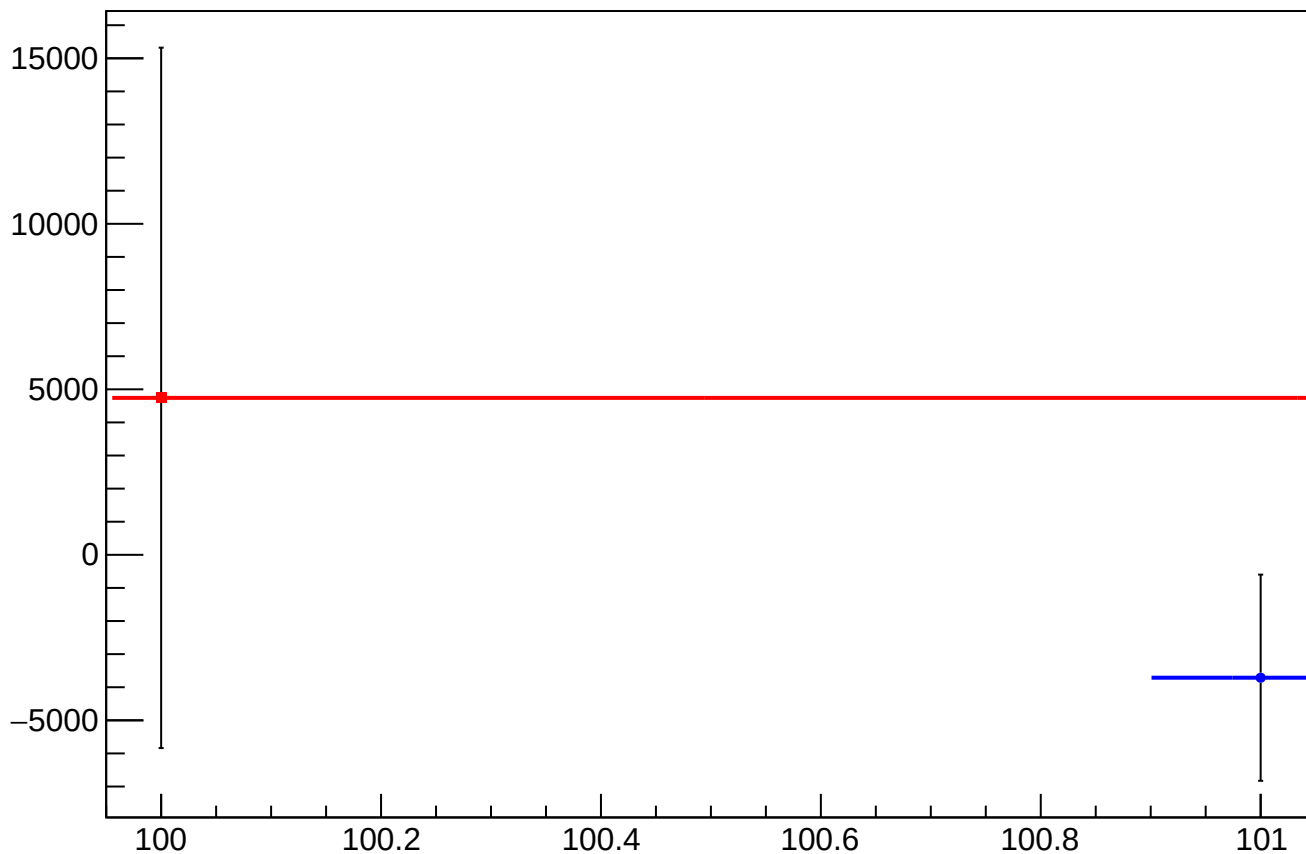
Right: 5087.497+/-4.244  $\chi^2/\text{NDF}$ : 3014.2/1

In: 5021.257+/-4.412  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5087.497+/-4.244  $\chi^2/\text{NDF}$ : 3014.2/1

eigen\_dit\_asym\_usr\_atr2\_avg\_mean vs Slug, Sign Corrected



Right In: -3712.398+/-3114.412  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4741.548+/-10579.840  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

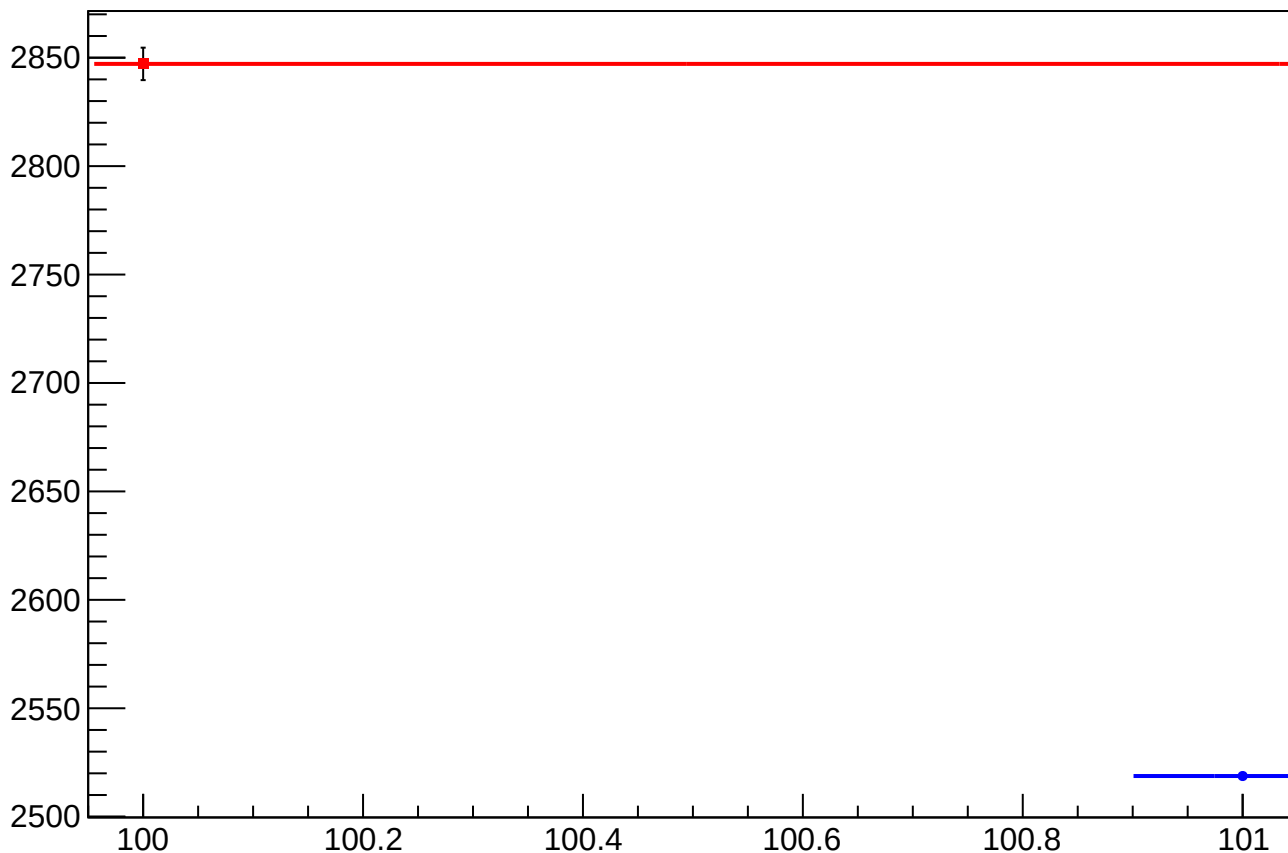
Right: -3038.240+/-2987.653  $\chi^2/\text{NDF}$ : 0.6/1

In: -3712.398+/-3114.412  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3038.240+/-2987.653  $\chi^2/\text{NDF}$ : 0.6/1

eigen\_dit\_asym\_usr\_atr2\_avg\_rms vs Slug, Sign Corrected



Right In: 2518.758 $\pm$ 2.202  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2847.142 $\pm$ 7.481  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

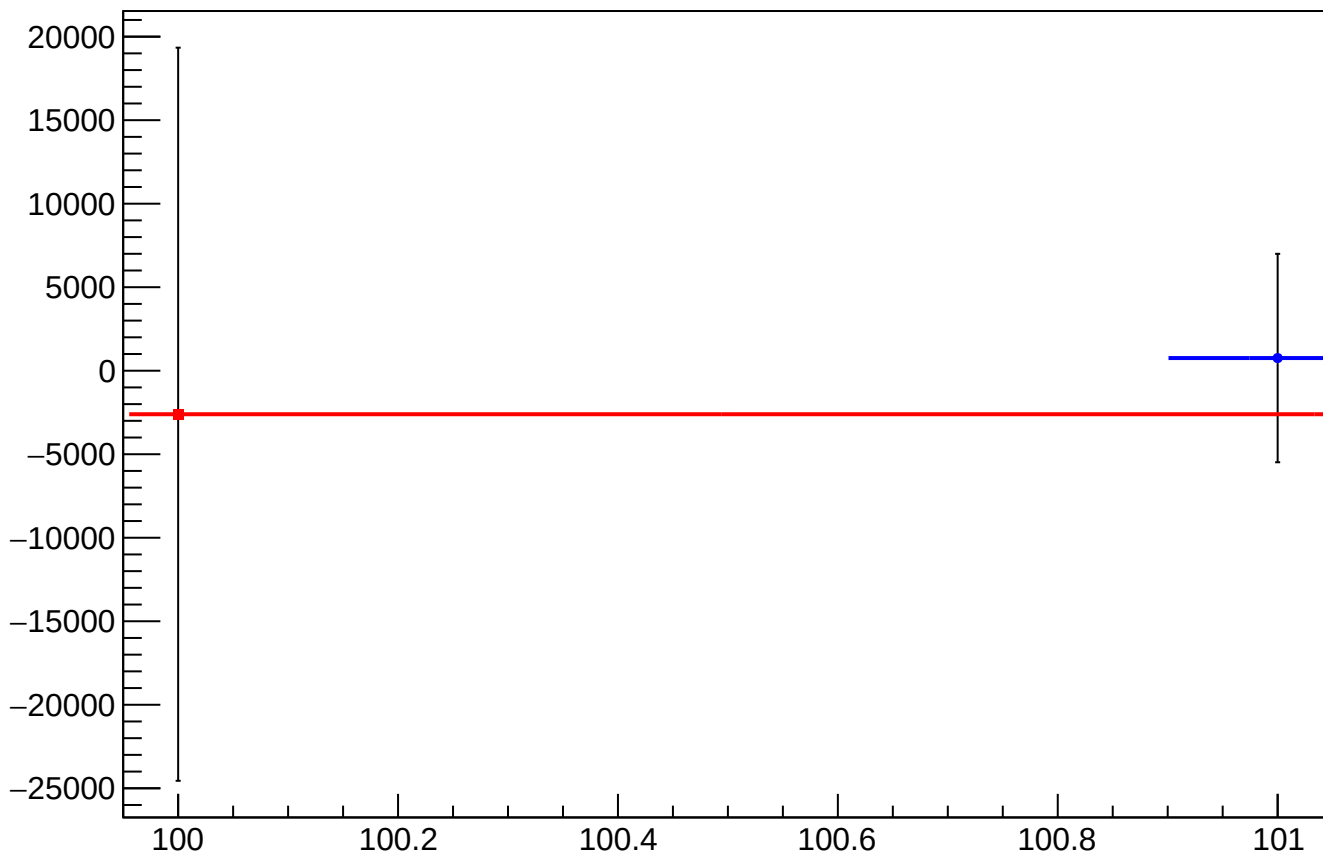
Right: 2544.945 $\pm$ 2.113  $\chi^2/\text{NDF}$ : 1773.1/1

In: 2518.758 $\pm$ 2.202  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2544.945 $\pm$ 2.113  $\chi^2/\text{NDF}$ : 1773.1/1

asym\_usr\_atr2\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 758.367+/-6239.498  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2605.541+/-21946.500  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

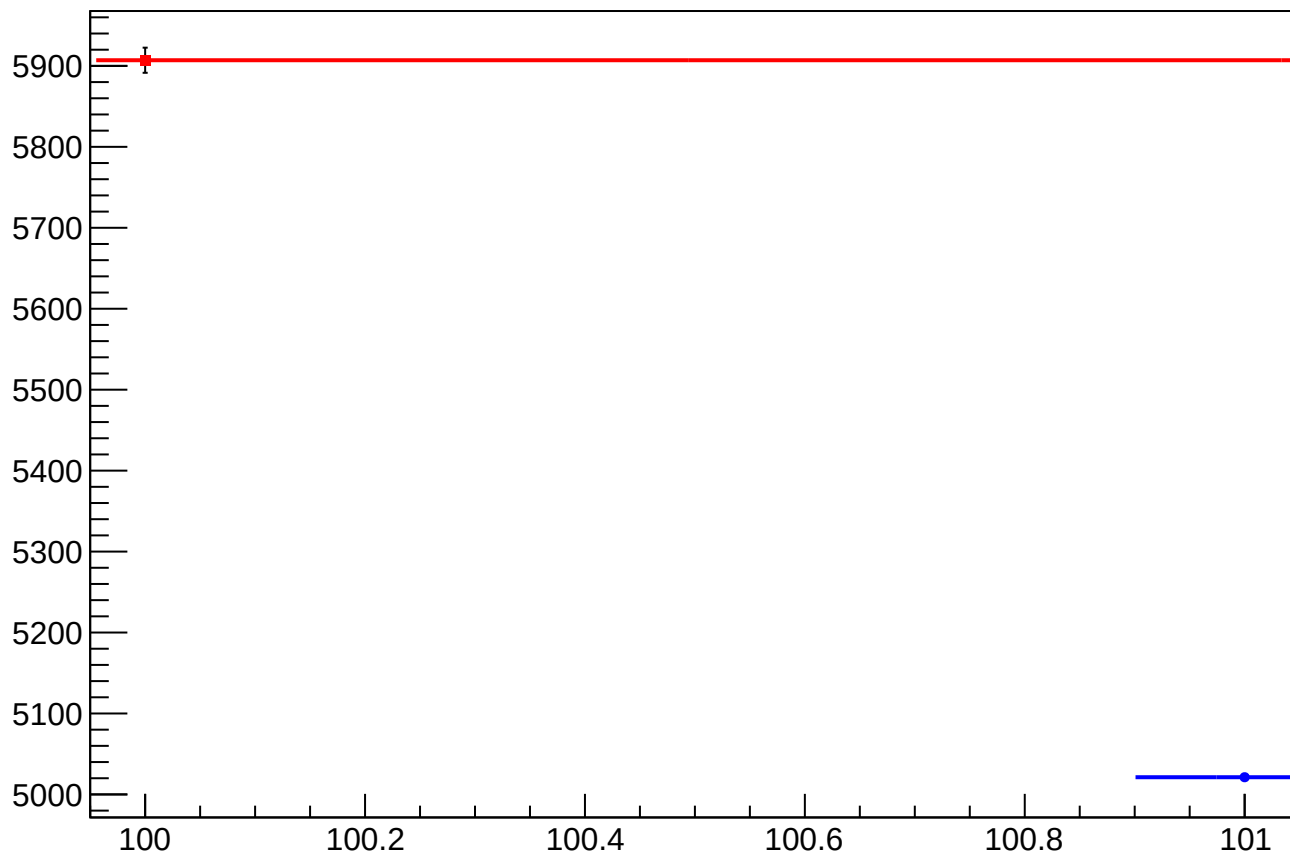
Right: 506.798+/-6001.656  $\chi^2/\text{NDF}$ : 0.0/1

In: 758.367+/-6239.498  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 506.798+/-6001.656  $\chi^2/\text{NDF}$ : 0.0/1

asym\_usr\_atr2\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5021.250+/-4.412  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5906.993+/-15.519  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 5087.490+/-4.244  $\chi^2/\text{NDF}$ : 3014.1/1

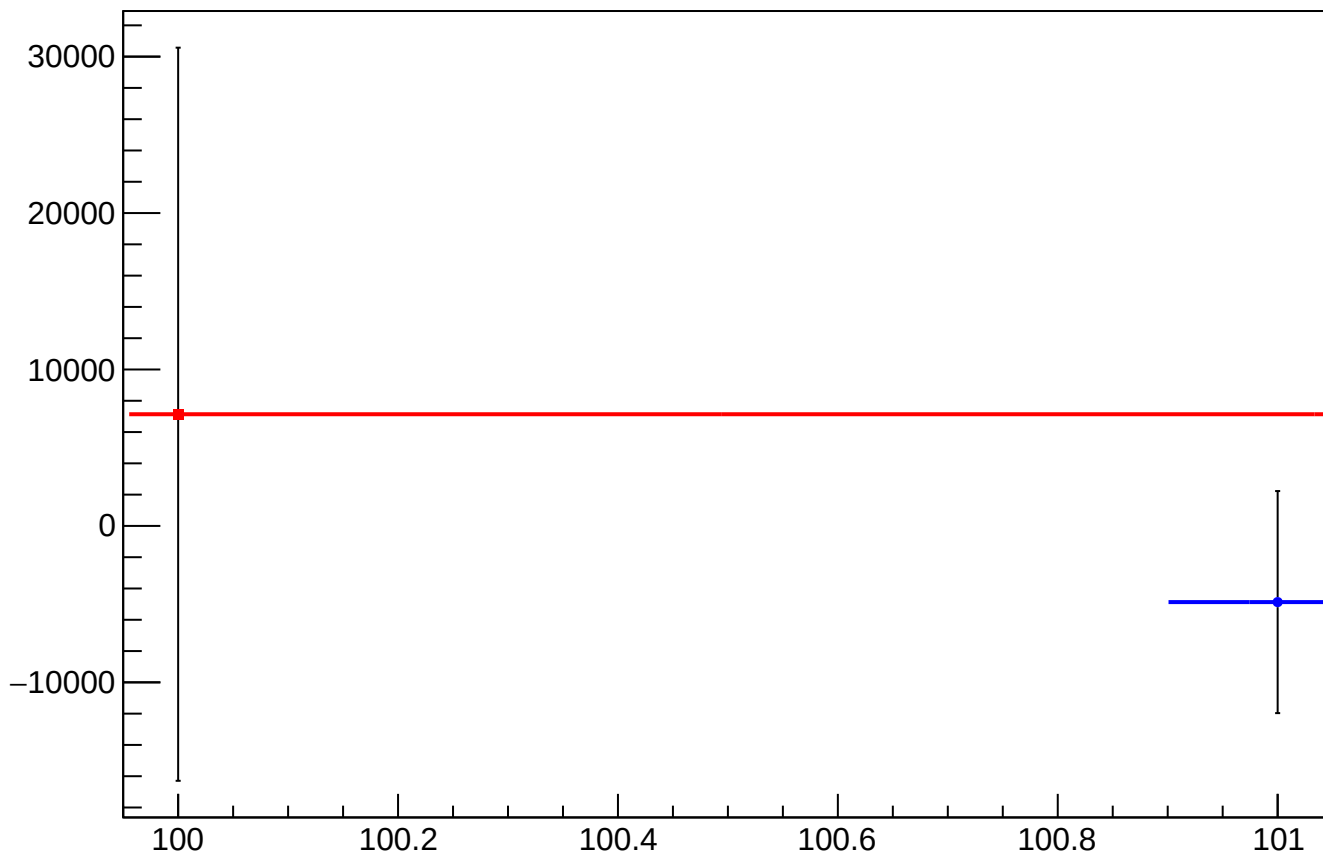
In: 5021.250+/-4.412  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5087.490+/-4.244  $\chi^2/\text{NDF}$ : 3014.1/1



asym\_usr\_atr2\_avg\_mean vs Slug, Sign Corrected



Right In: -4869.217+/-7097.836  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7139.546+/-23432.942  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

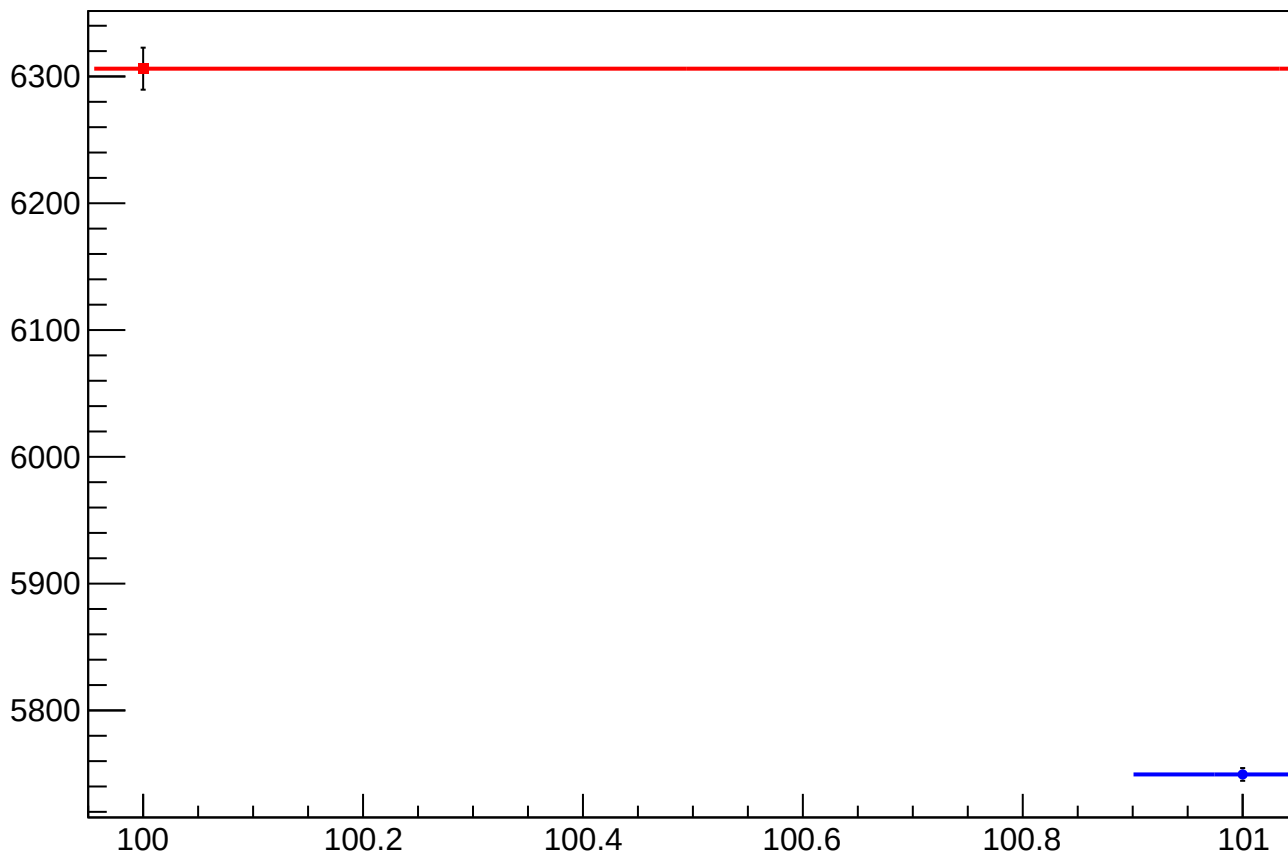
Right: -3860.025+/-6793.048  $\chi^2/\text{NDF}$ : 0.2/1

In: -4869.217+/-7097.836  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3860.025+/-6793.048  $\chi^2/\text{NDF}$ : 0.2/1

# asym\_usr\_atr2\_avg\_rms vs Slug, Sign Corrected



Right In: 5749.509+/-5.019  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6306.140+/-16.570  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

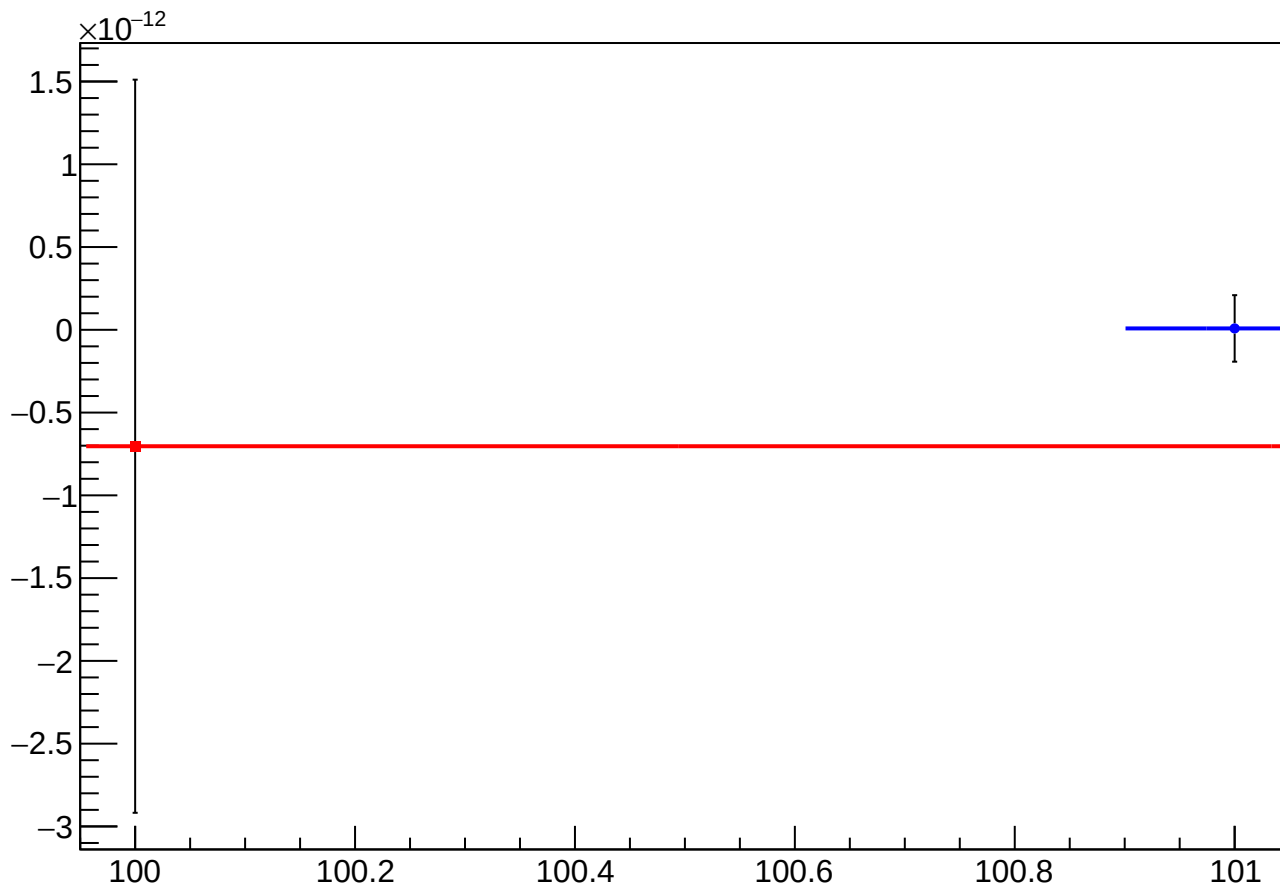
Right: 5796.288+/-4.803  $\chi^2/\text{NDF}$ : 1033.7/1

In: 5749.509+/-5.019  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5796.288+/-4.803  $\chi^2/\text{NDF}$ : 1033.7/1

asym\_usr\_atr2\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

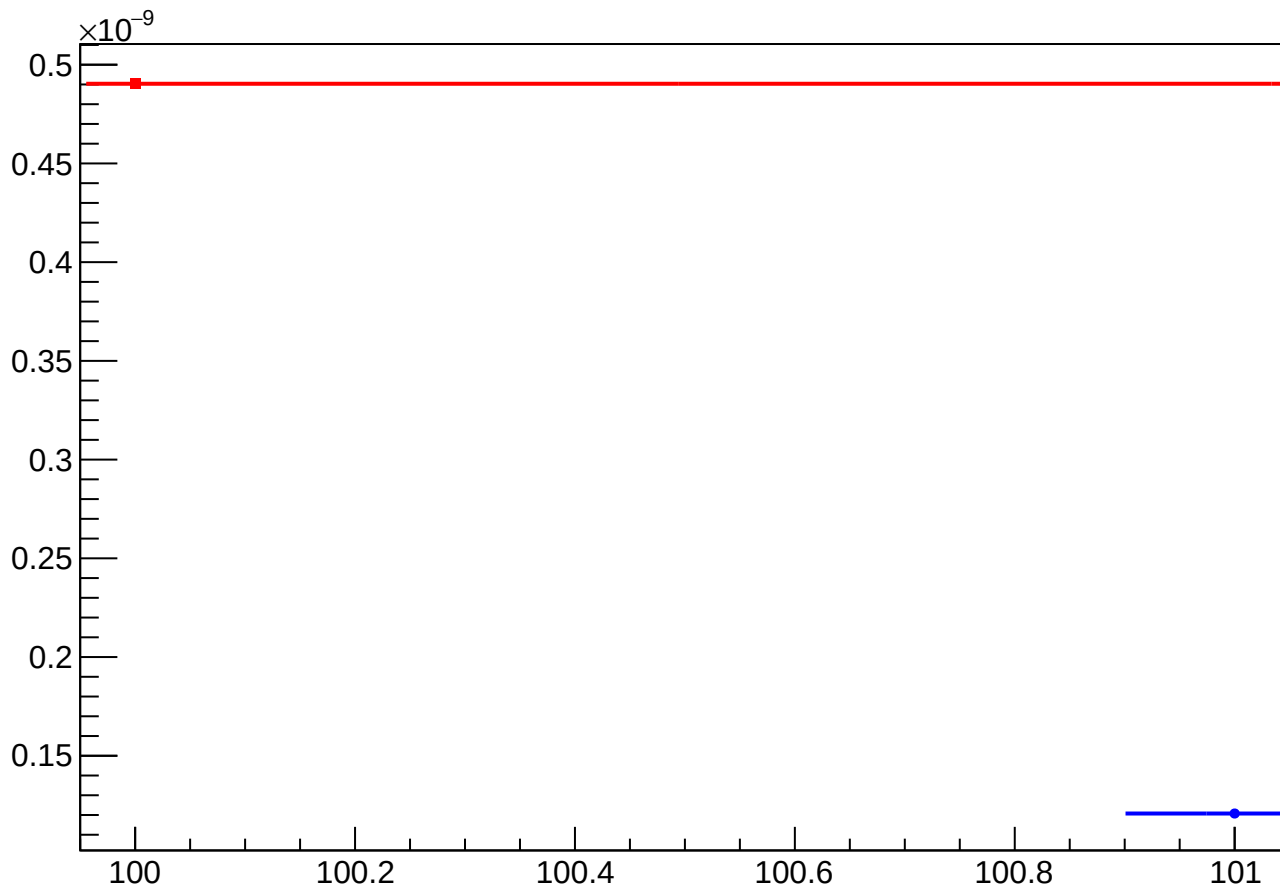
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr2\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

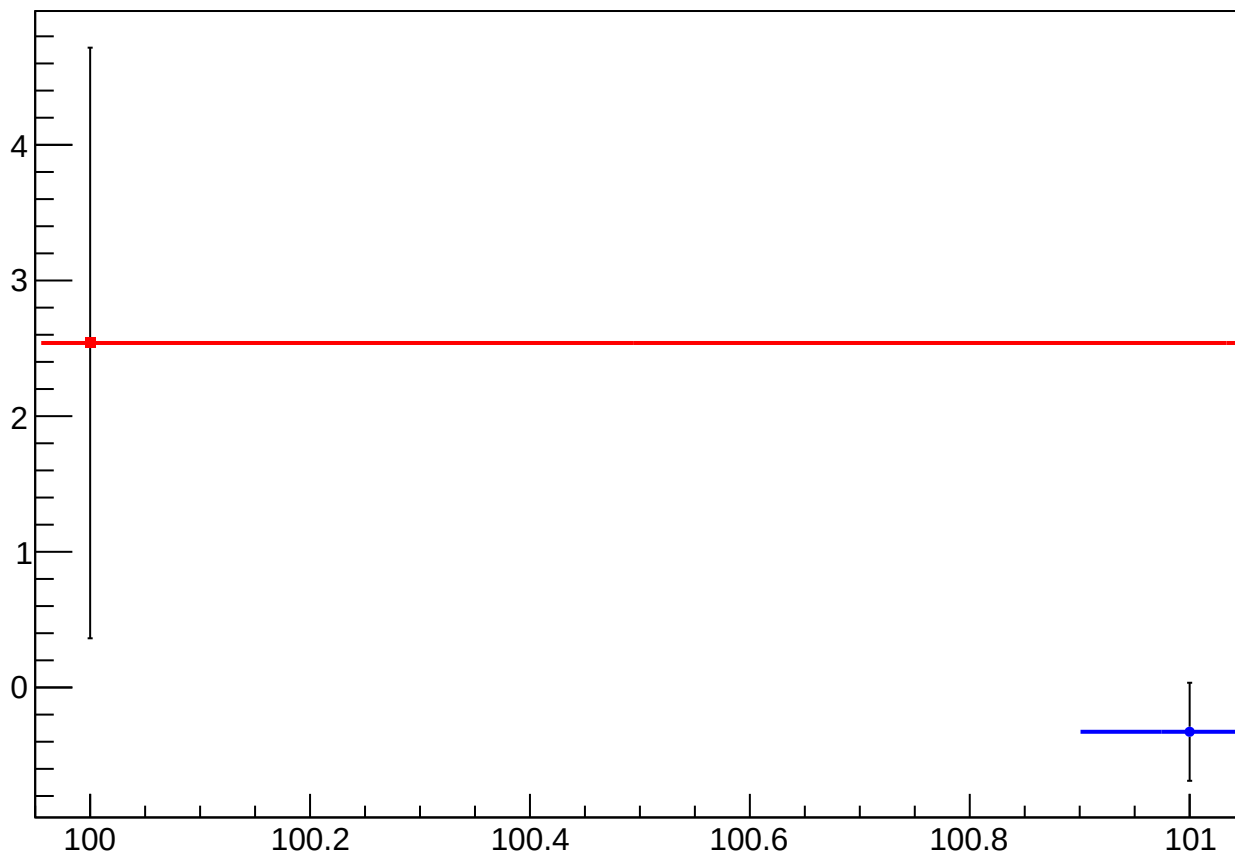
Right: 0.000+/-0.000  $\chi^2$ /NDF: 55262.1/1

In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 55262.1/1

asym\_usr\_atr2\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.327+/-0.361  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.539+/-2.177  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

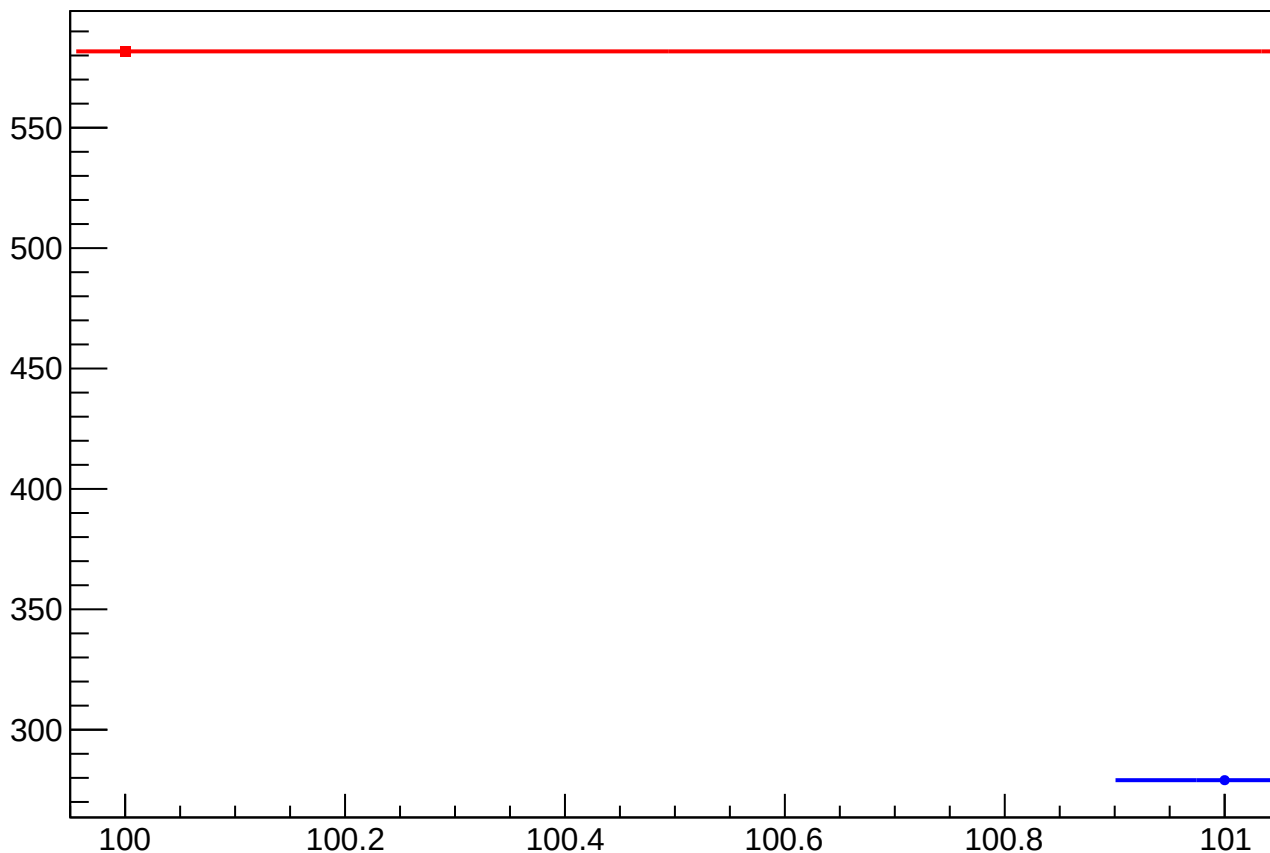
Right: -0.250+/-0.356  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.327+/-0.361  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.250+/-0.356  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usr\_atr2\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 279.041 $\pm$ 0.256  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 581.707 $\pm$ 1.539  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

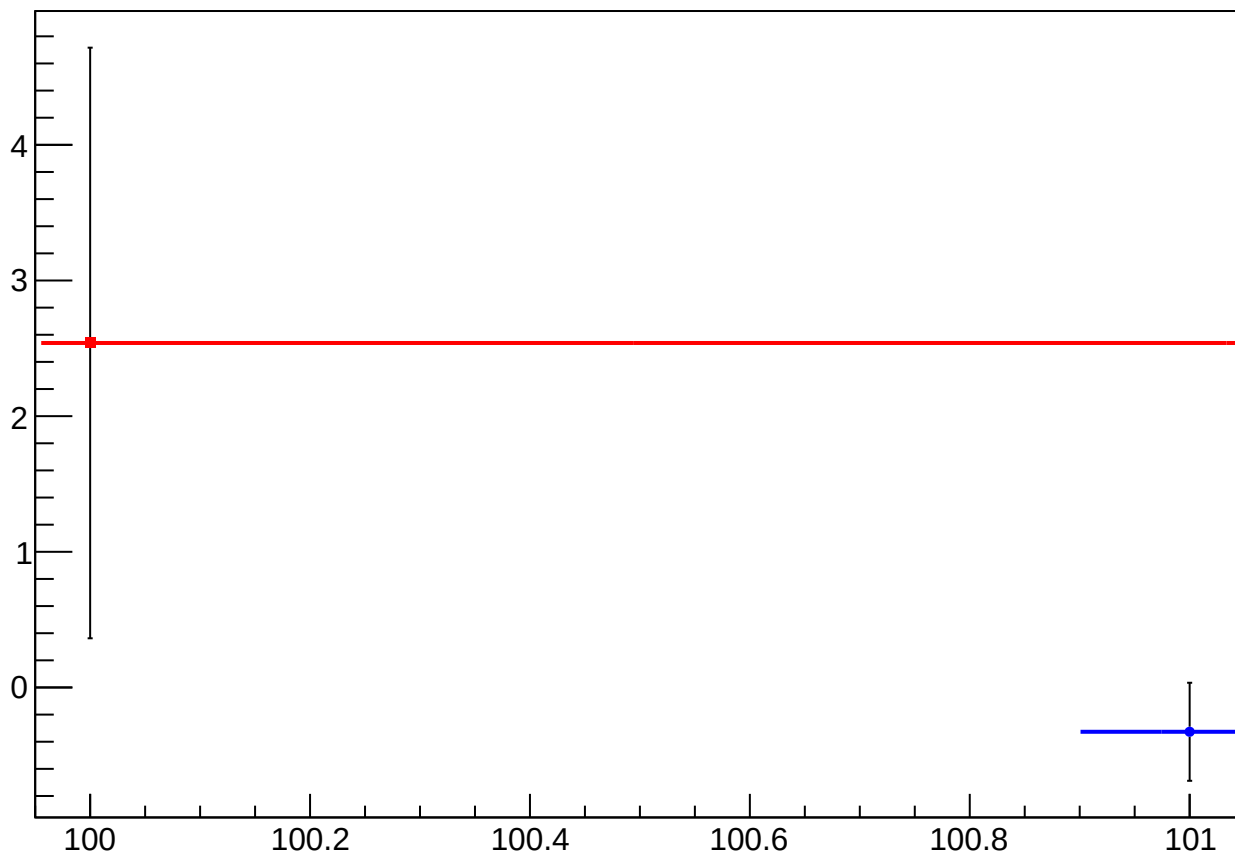
Right: 287.157 $\pm$ 0.252  $\chi^2$ /NDF: 37623.6/1

In: 279.041 $\pm$ 0.256  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 287.157 $\pm$ 0.252  $\chi^2$ /NDF: 37623.6/1

asym\_usr\_atr2\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.327+/-0.361  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.539+/-2.177  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

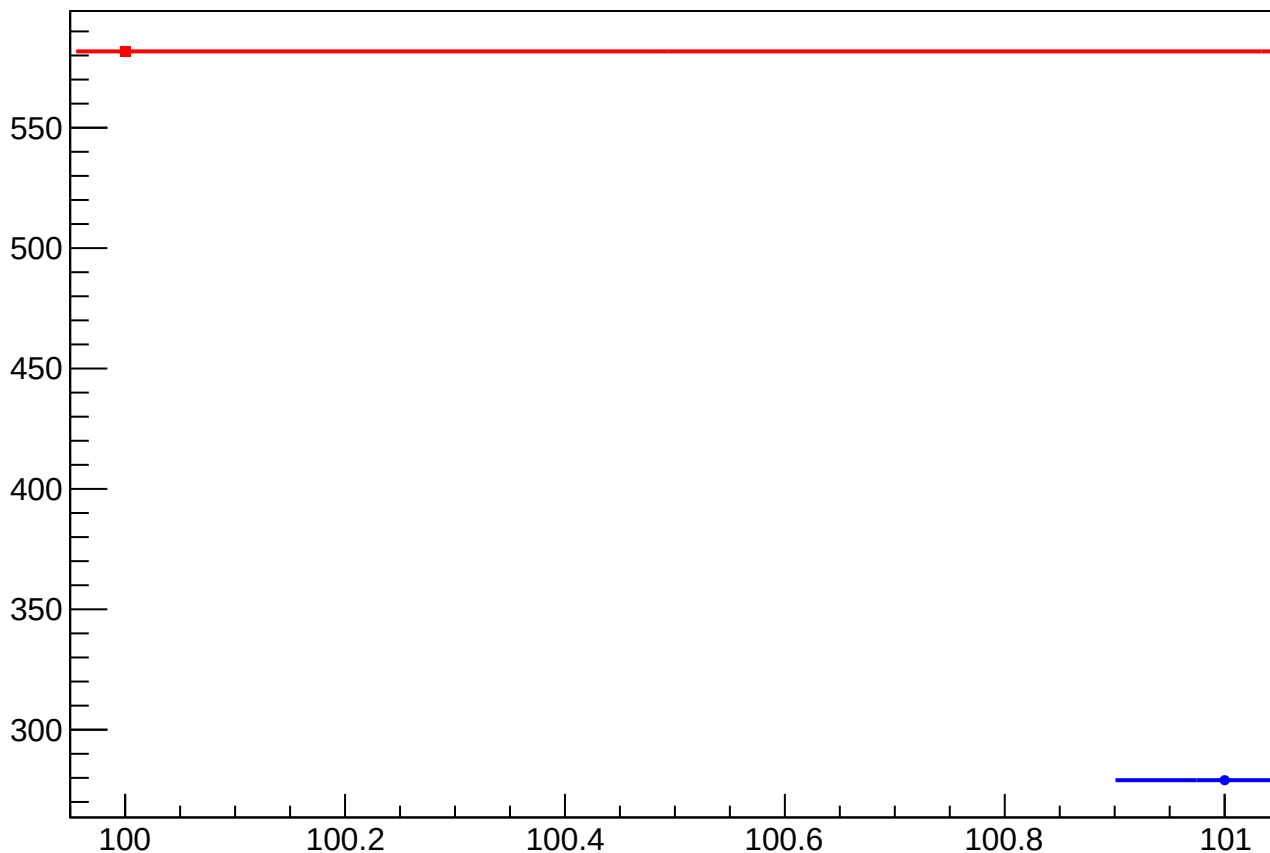
Right: -0.250+/-0.356  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.327+/-0.361  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.250+/-0.356  $\chi^2/\text{NDF}$ : 1.7/1

asym\_usr\_atr2\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 279.041+/-0.256  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 581.707+/-1.539  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 287.157+/-0.252  $\chi^2/\text{NDF}$ : 37623.6/1

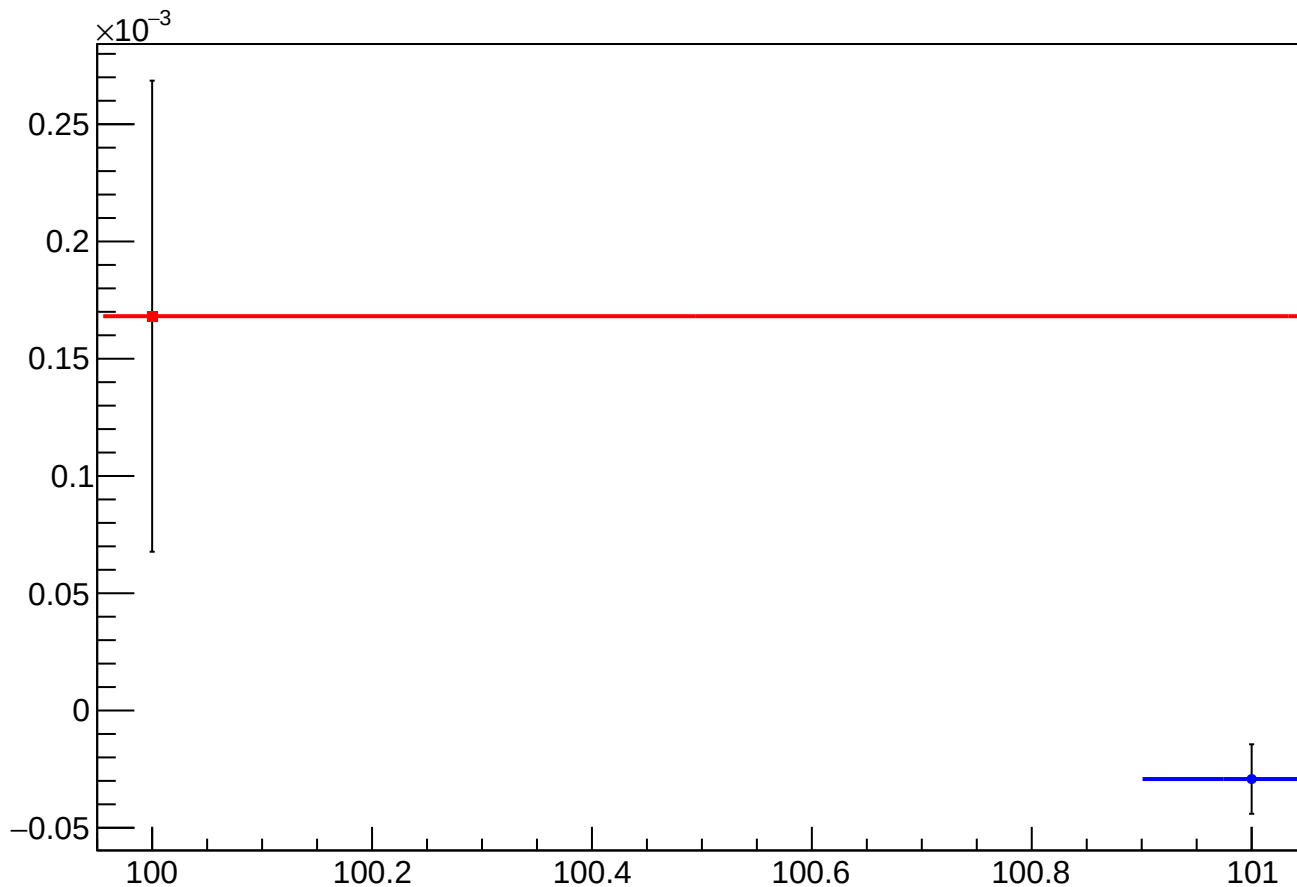
In: 279.041+/-0.256  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 287.157+/-0.252  $\chi^2/\text{NDF}$ : 37623.6/1



asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

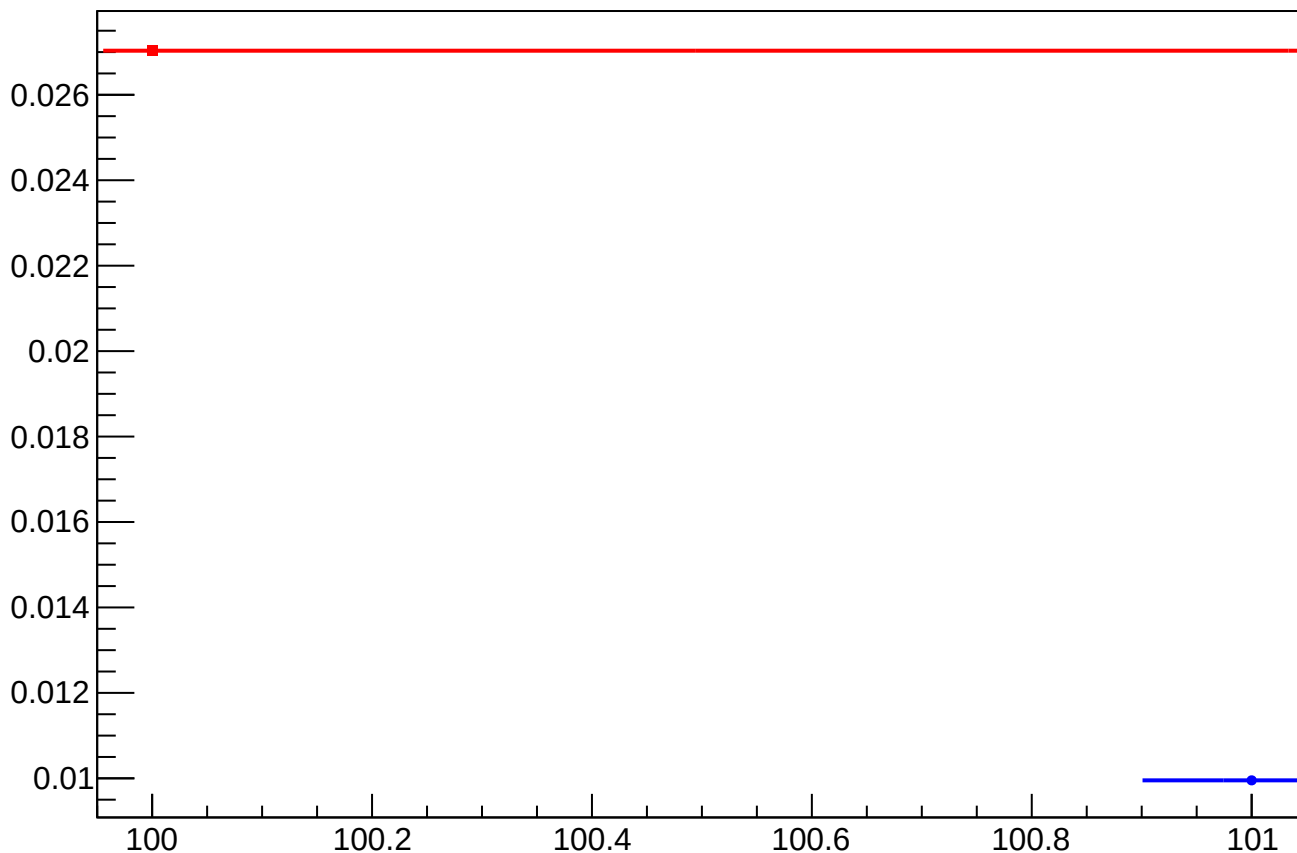
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.8/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.8/1

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

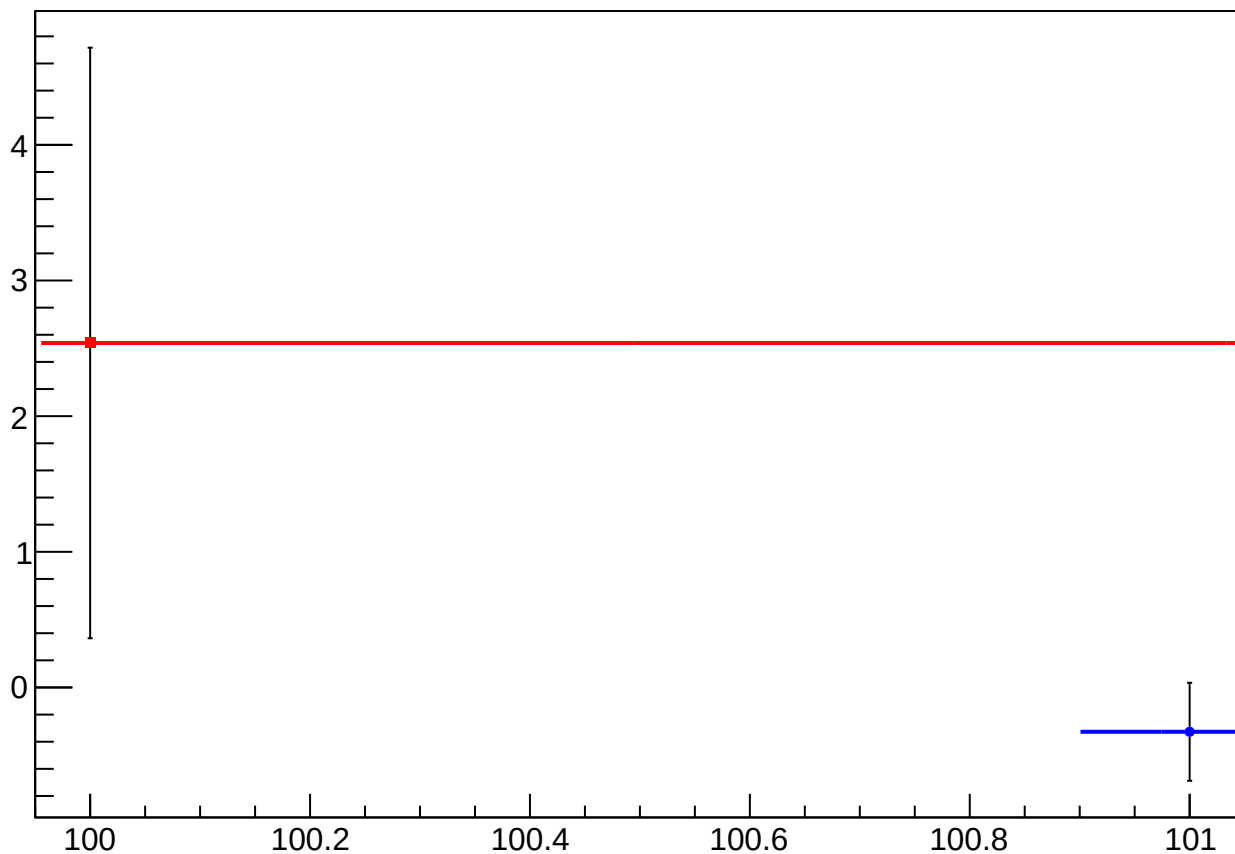
Right: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 56611.6/1

In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 56611.6/1

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.327 $\pm$ 0.361  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.540 $\pm$ 2.177  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

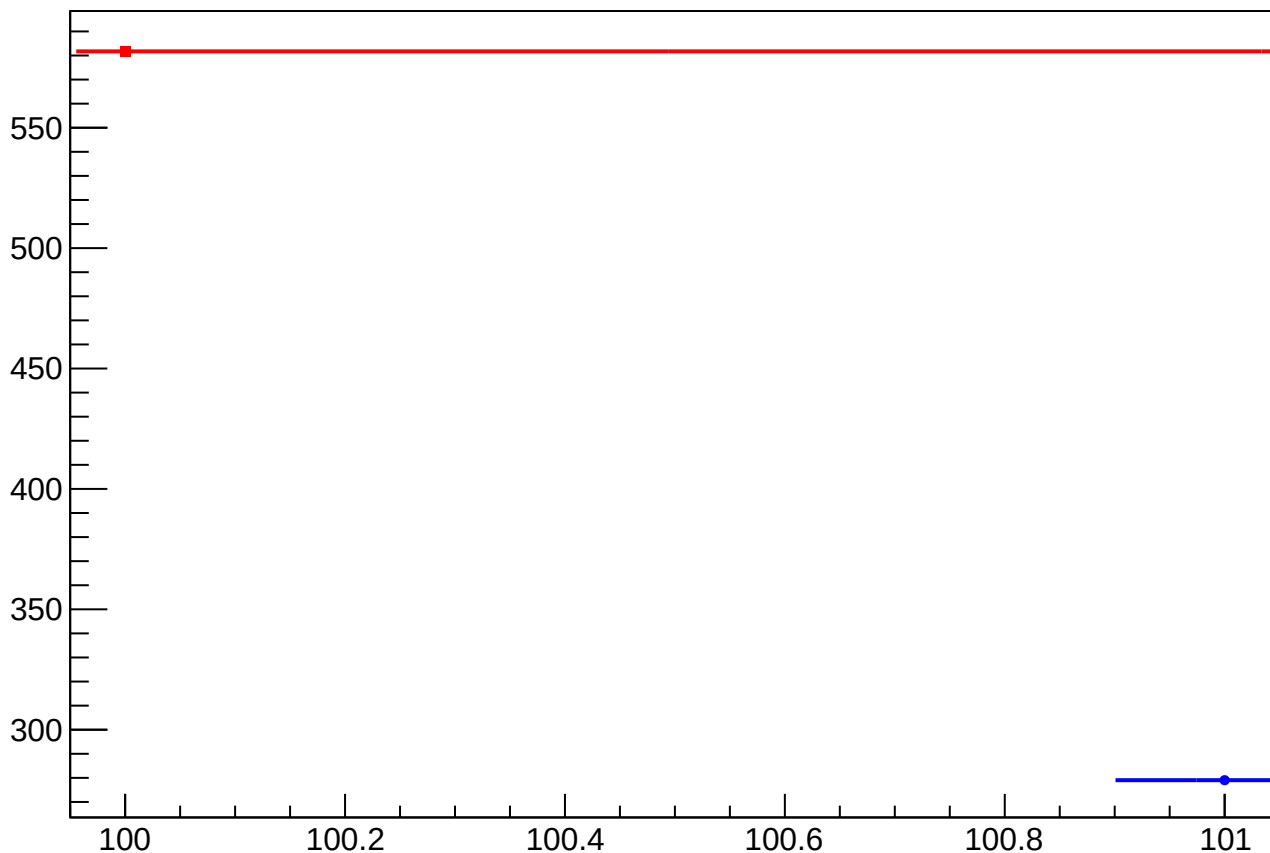
Right: -0.250 $\pm$ 0.356  $\chi^2$ /NDF: 1.7/1

In: -0.327 $\pm$ 0.361  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.250 $\pm$ 0.356  $\chi^2$ /NDF: 1.7/1

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 279.041 $\pm$ 0.256  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 581.712 $\pm$ 1.539  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

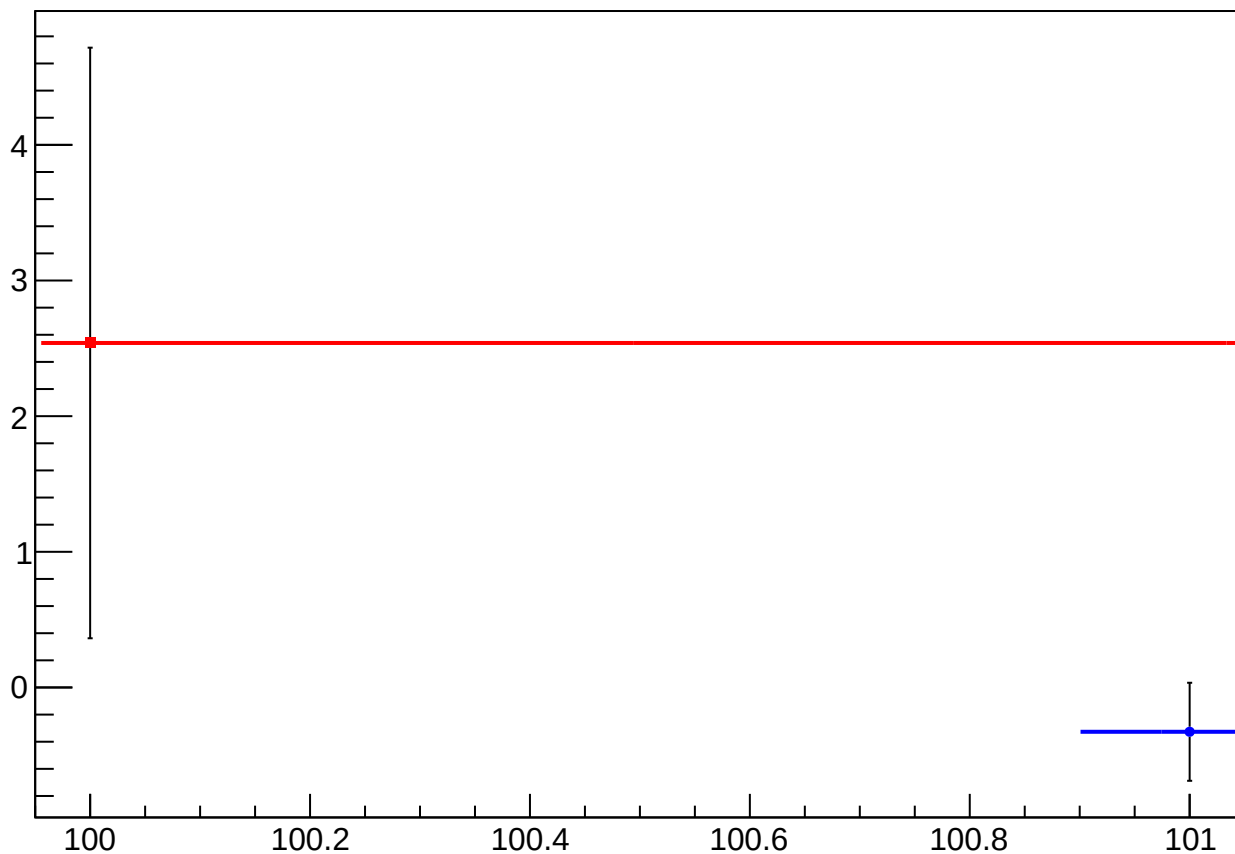
Right: 287.156 $\pm$ 0.252  $\chi^2$ /NDF: 37624.4/1

In: 279.041 $\pm$ 0.256  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 287.156 $\pm$ 0.252  $\chi^2$ /NDF: 37624.4/1

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.327+/-0.361  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.540+/-2.177  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

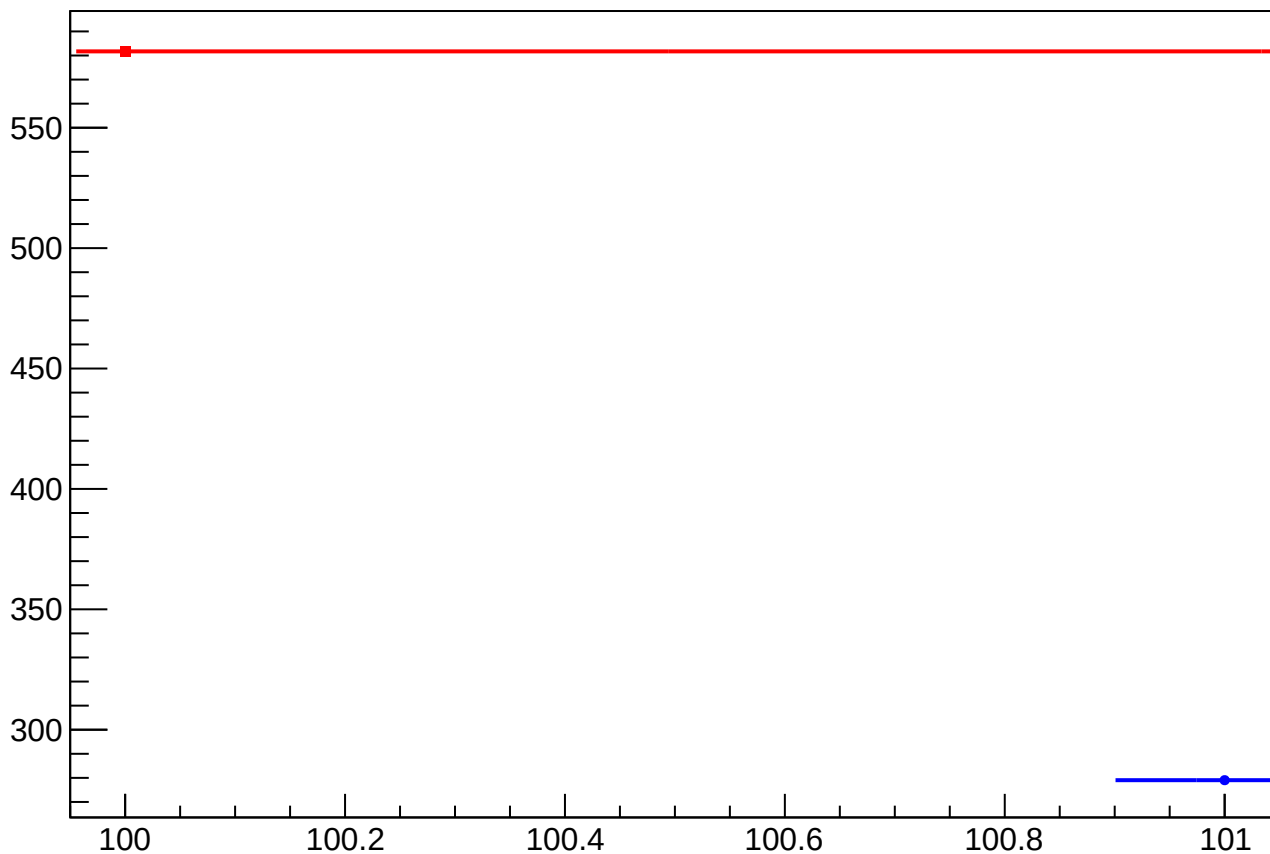
Right: -0.250+/-0.356  $\chi^2$ /NDF: 1.7/1

In: -0.327+/-0.361  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.250+/-0.356  $\chi^2$ /NDF: 1.7/1

asym\_usr\_atr2\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 279.041 $\pm$ 0.256  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 581.712 $\pm$ 1.539  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

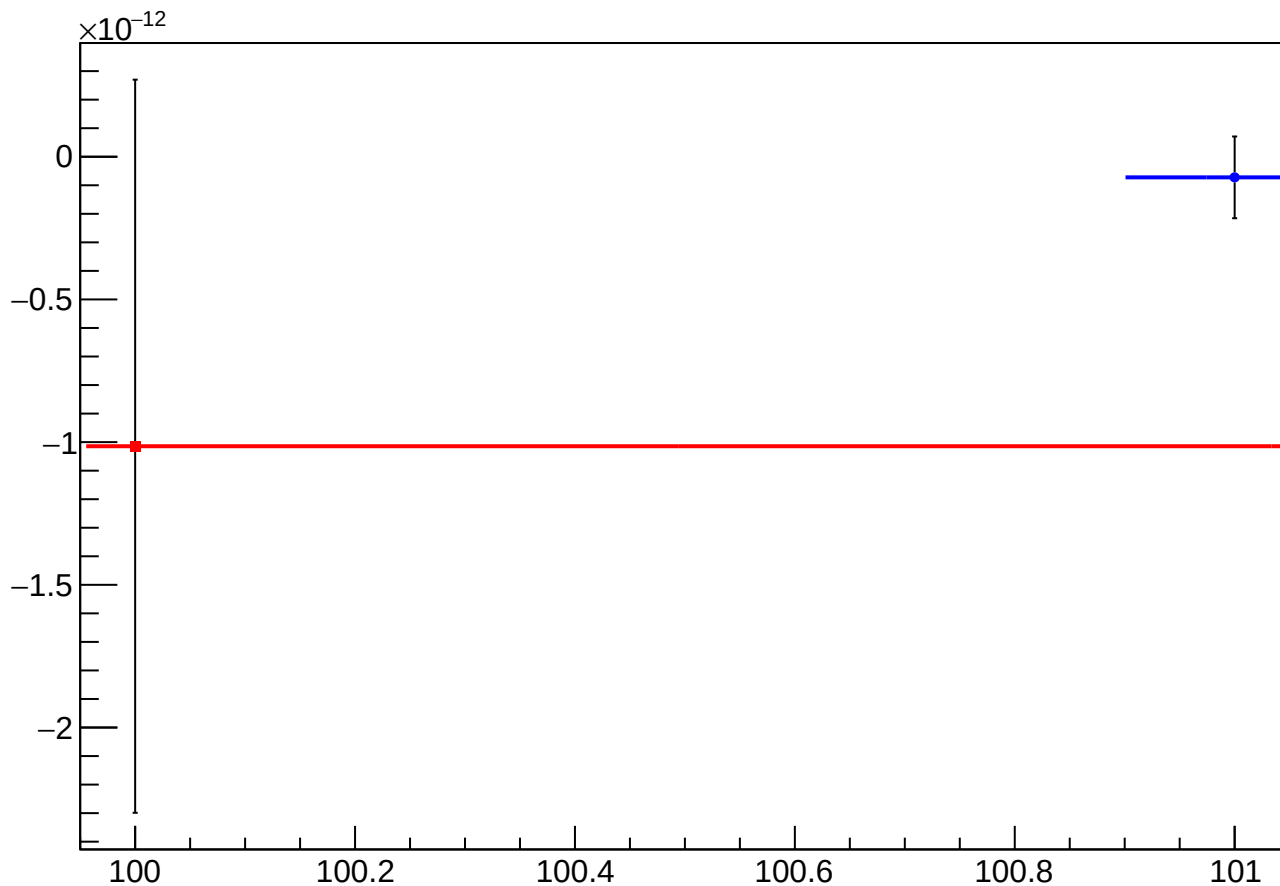
Right: 287.156 $\pm$ 0.252  $\chi^2$ /NDF: 37624.4/1

In: 279.041 $\pm$ 0.256  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 287.156 $\pm$ 0.252  $\chi^2$ /NDF: 37624.4/1

asym\_usr\_atr2\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

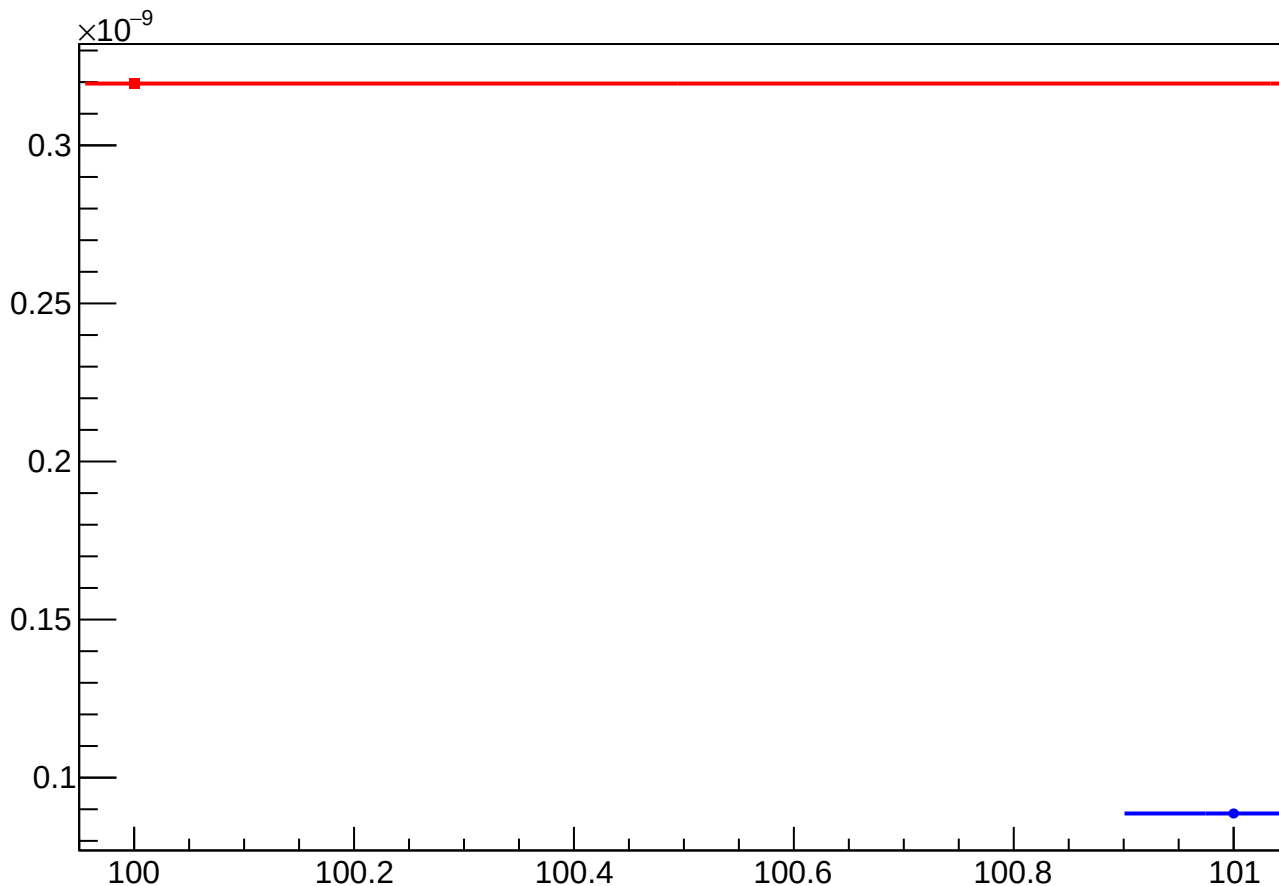
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.5/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.5/1

asym\_usr\_atr2\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 63831.6/1

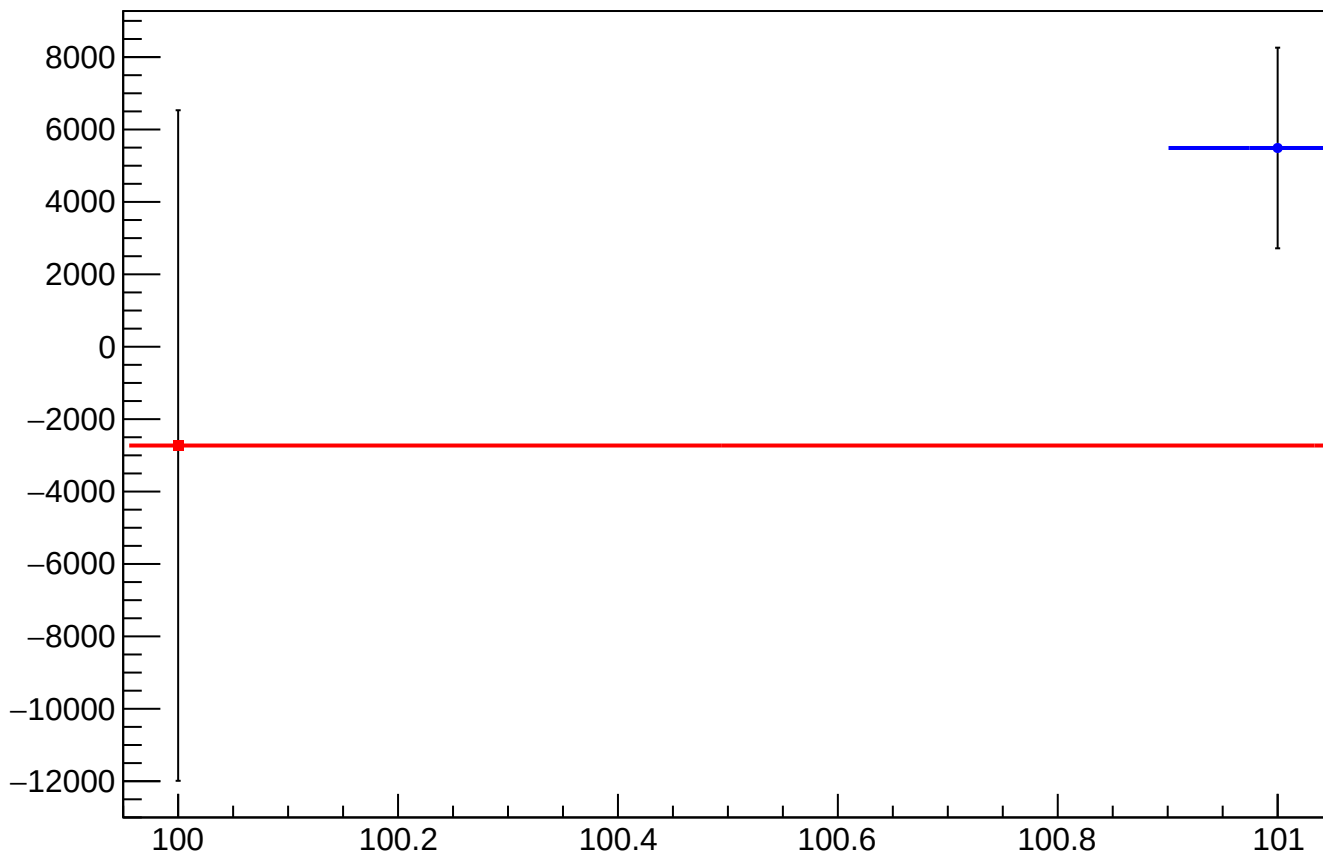
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 63831.6/1



reg\_asym\_usr\_atr2\_dd\_mean vs Slug, Sign Corrected



Right In: 5489.347+/-2770.898  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2728.427+/-9260.483  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

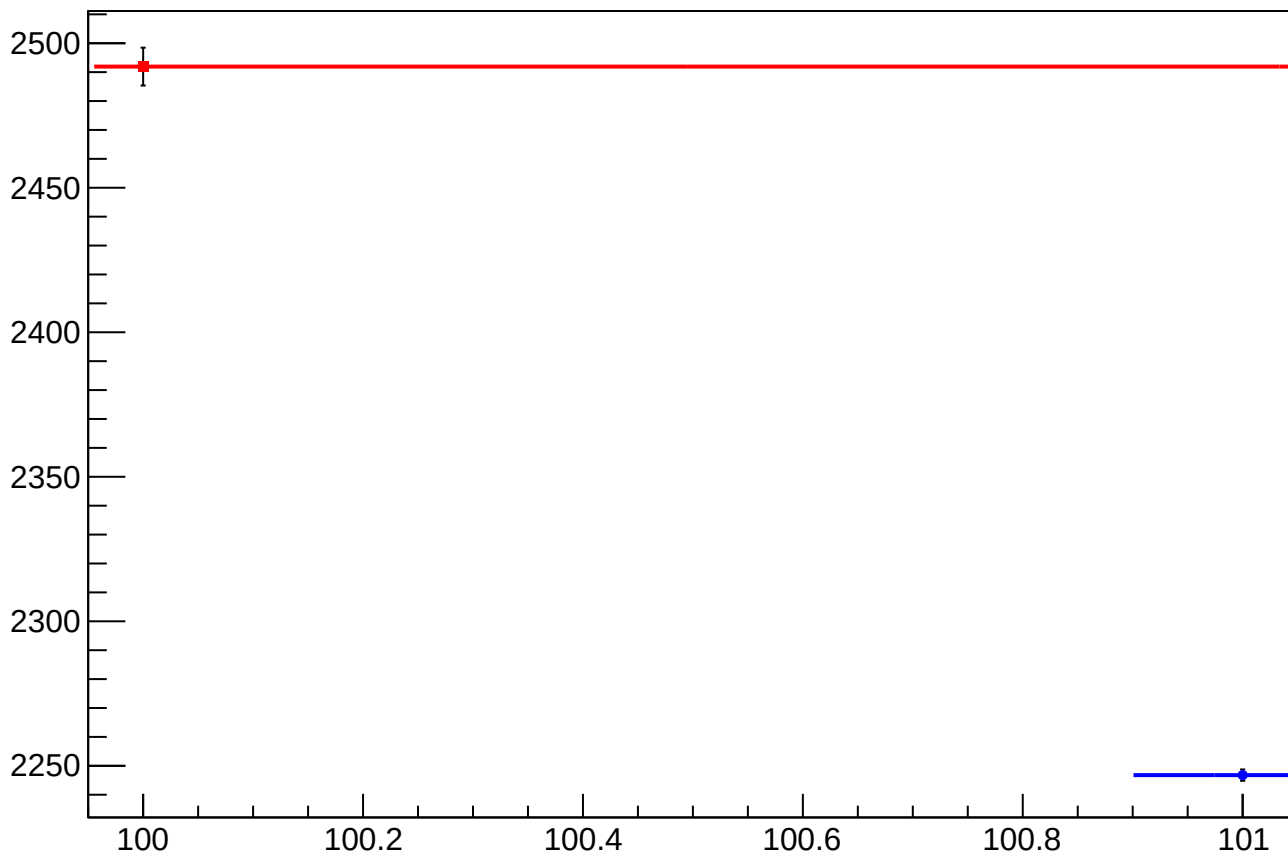
Right: 4814.060+/-2654.610  $\chi^2/\text{NDF}$ : 0.7/1

In: 5489.347+/-2770.898  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4814.060+/-2654.610  $\chi^2/\text{NDF}$ : 0.7/1

reg\_asym\_usr\_atr2\_dd\_rms vs Slug, Sign Corrected



Right In: 2246.776 $\pm$ 1.959  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2491.916 $\pm$ 6.548  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

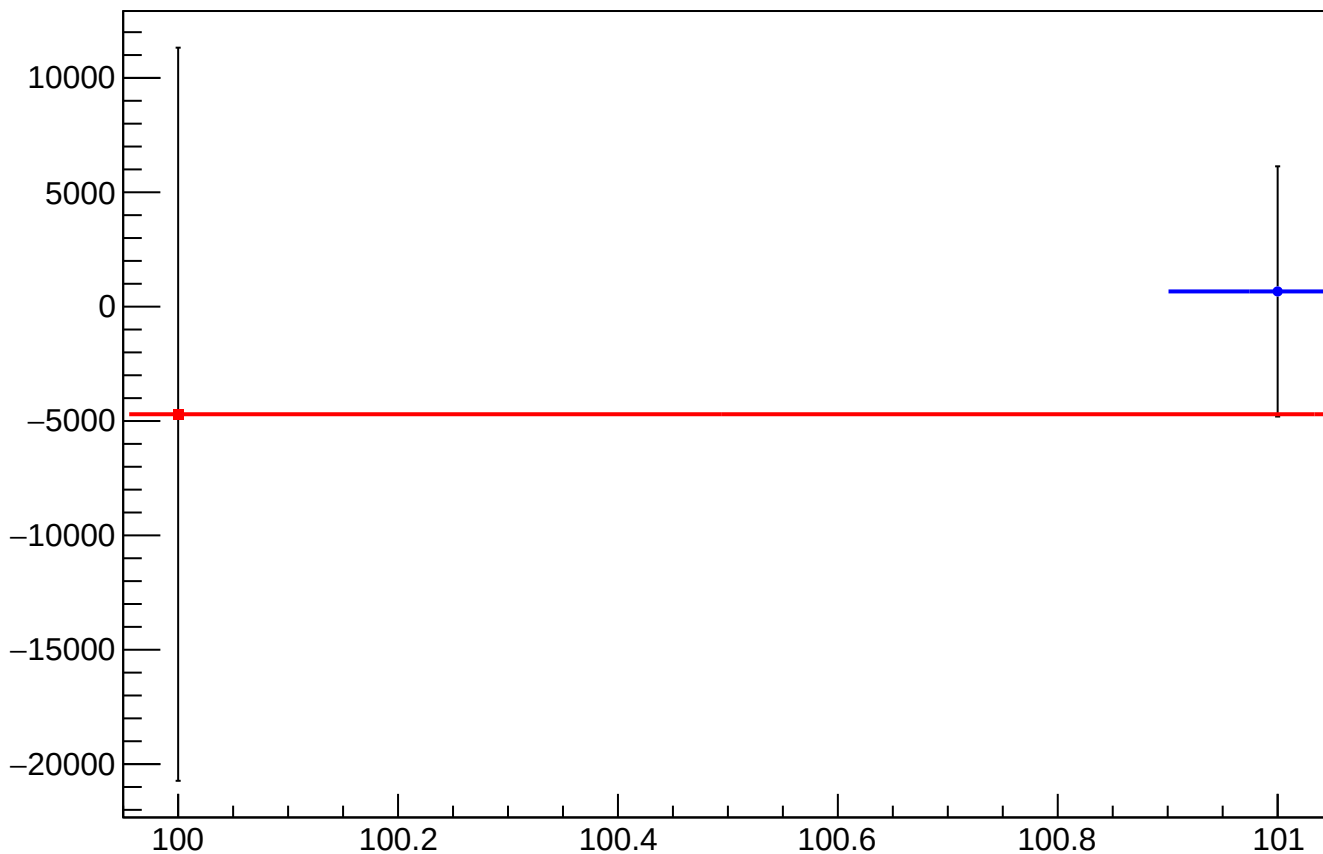
Right: 2266.920 $\pm$ 1.877  $\chi^2$ /NDF: 1286.3/1

In: 2246.776 $\pm$ 1.959  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2266.920 $\pm$ 1.877  $\chi^2$ /NDF: 1286.3/1

asym\_usr\_atr2\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 665.507+/-5469.469  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4703.586+/-16025.935  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

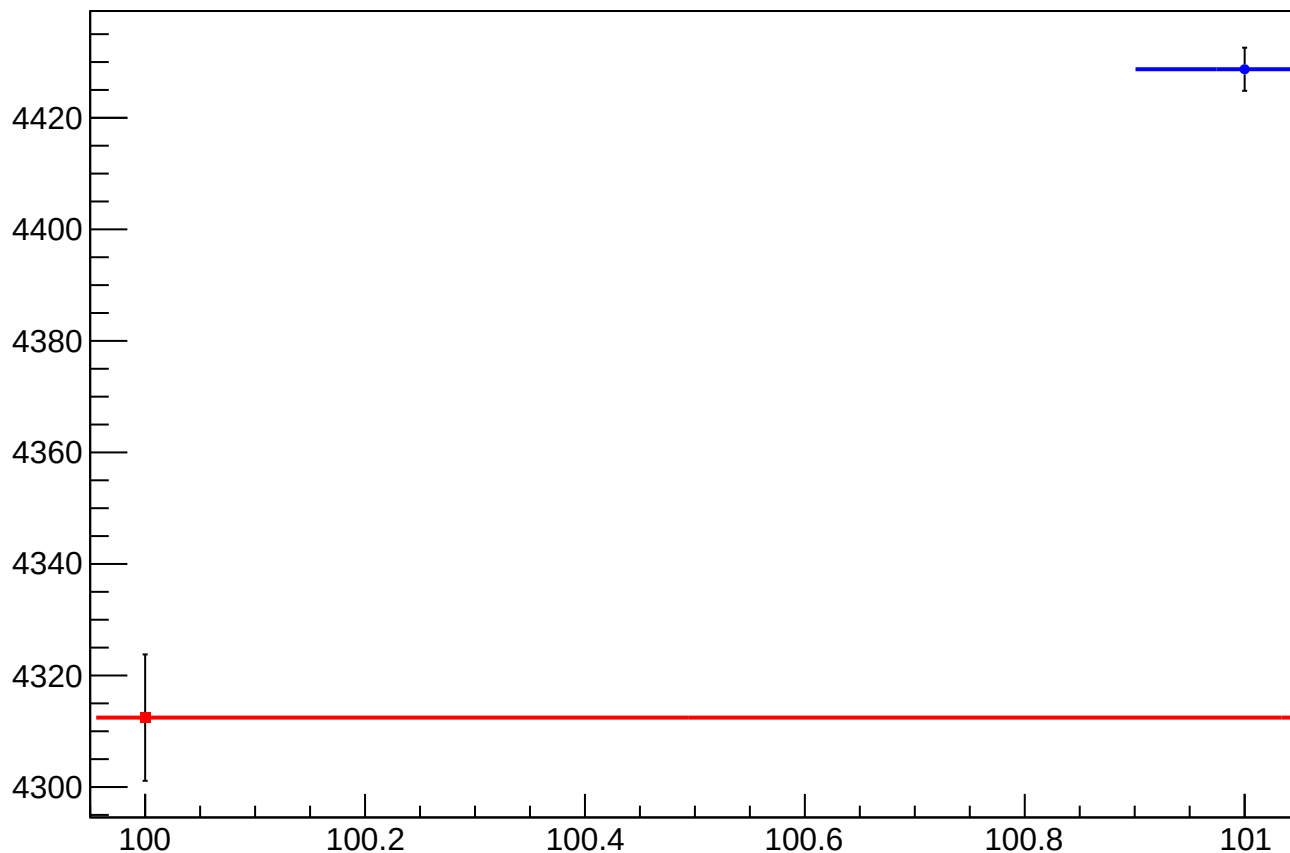
Right: 105.370+/-5176.307  $\chi^2/\text{NDF}$ : 0.1/1

In: 665.507+/-5469.469  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 105.370+/-5176.307  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr2\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4428.711+/-3.867  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4312.449+/-11.332  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

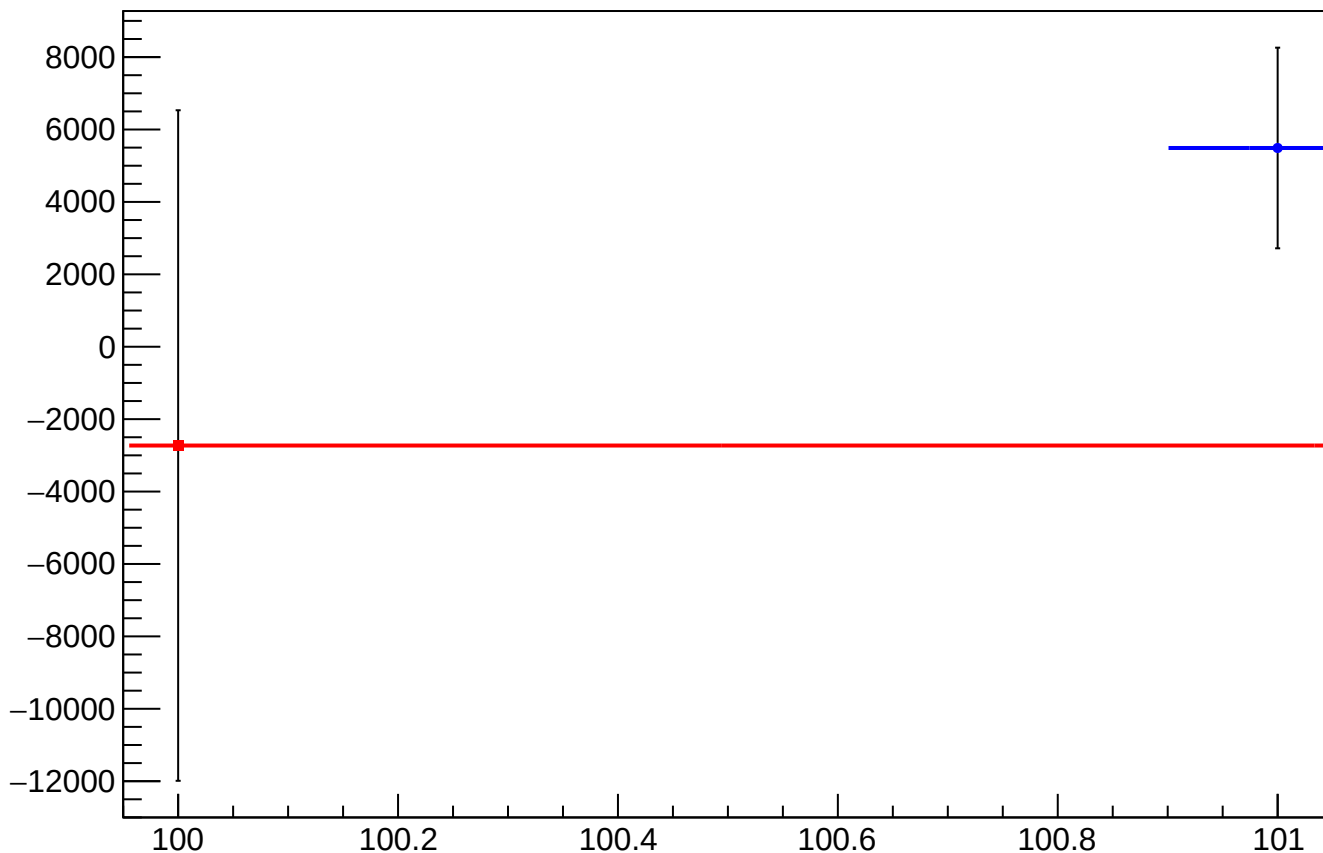
Right: 4416.582+/-3.660  $\chi^2/\text{NDF}$ : 94.3/1

In: 4428.711+/-3.867  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4416.582+/-3.660  $\chi^2/\text{NDF}$ : 94.3/1

cor\_asym\_usr\_atr2\_dd\_mean vs Slug, Sign Corrected



Right In: 5489.580+/-2770.898  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2728.584+/-9260.483  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

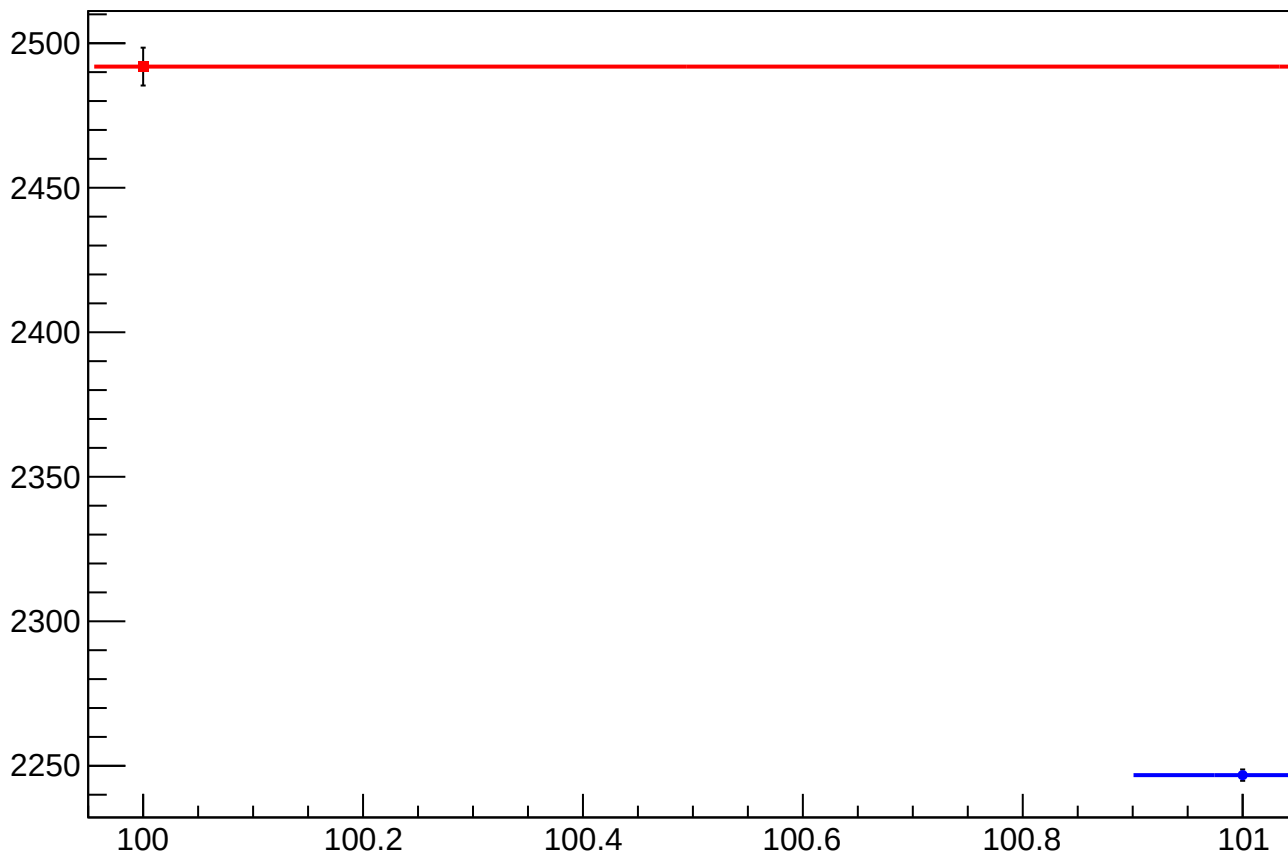
Right: 4814.261+/-2654.610  $\chi^2$ /NDF: 0.7/1

In: 5489.580+/-2770.898  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 4814.261+/-2654.610  $\chi^2$ /NDF: 0.7/1

cor\_asym\_usr\_atr2\_dd\_rms vs Slug, Sign Corrected



Right In: 2246.776 $\pm$ 1.959  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2491.916 $\pm$ 6.548  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

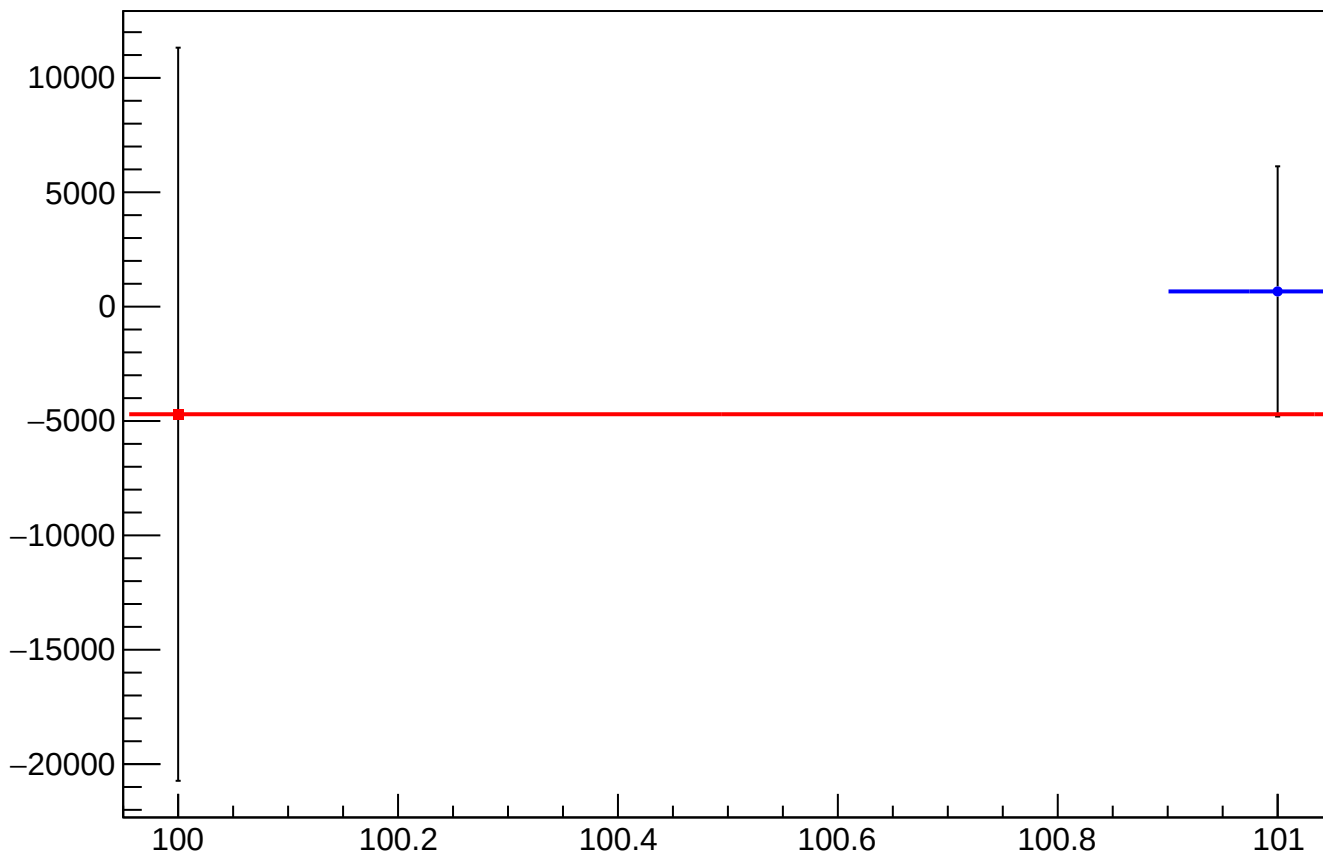
Right: 2266.920 $\pm$ 1.877  $\chi^2$ /NDF: 1286.3/1

In: 2246.776 $\pm$ 1.959  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2266.920 $\pm$ 1.877  $\chi^2$ /NDF: 1286.3/1

asym\_usr\_atr2\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 665.589+/-5469.465  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4703.763+/-16025.921  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

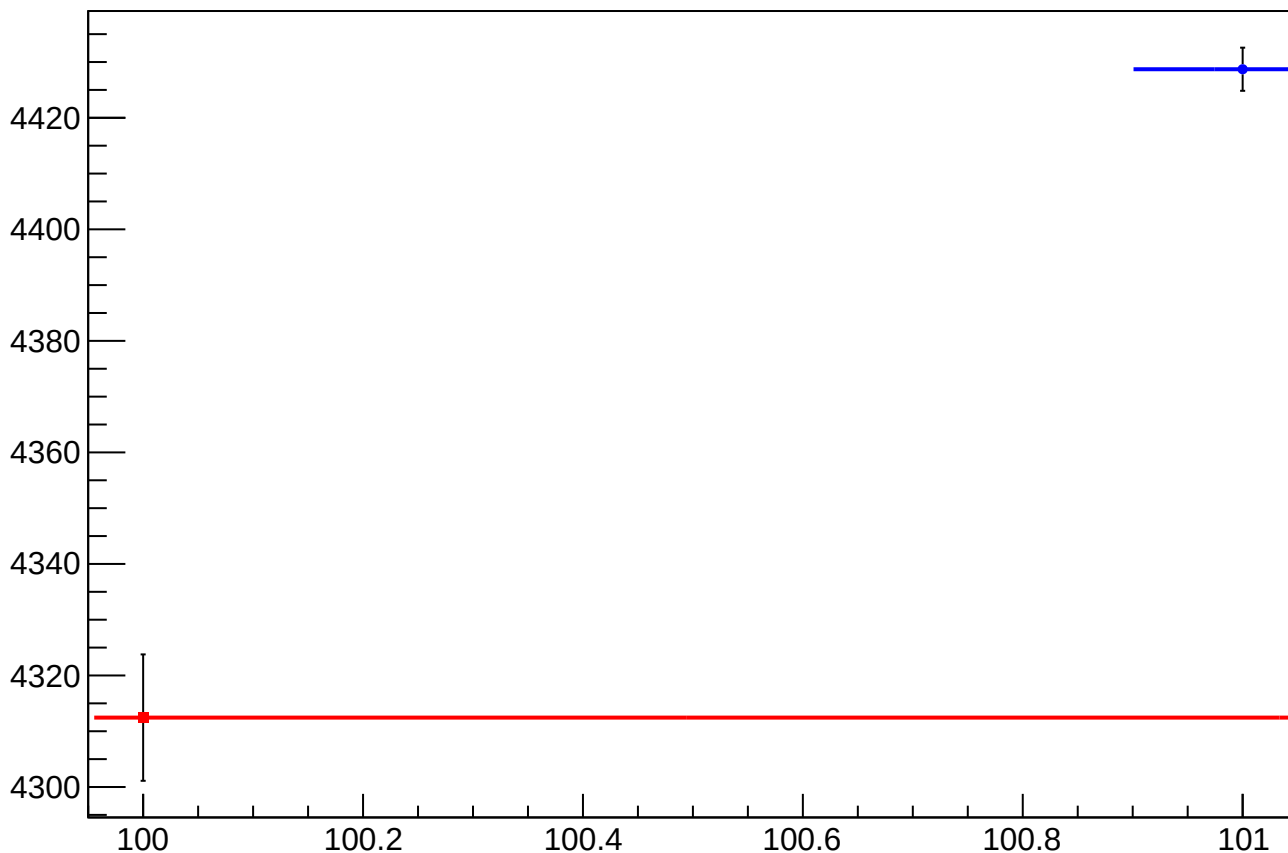
Right: 105.424+/-5176.304  $\chi^2/\text{NDF}$ : 0.1/1

In: 665.589+/-5469.465  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 105.424+/-5176.304  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr2\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4428.708 $\pm$ 3.867  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4312.446 $\pm$ 11.332  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4416.578 $\pm$ 3.660  $\chi^2$ /NDF: 94.3/1

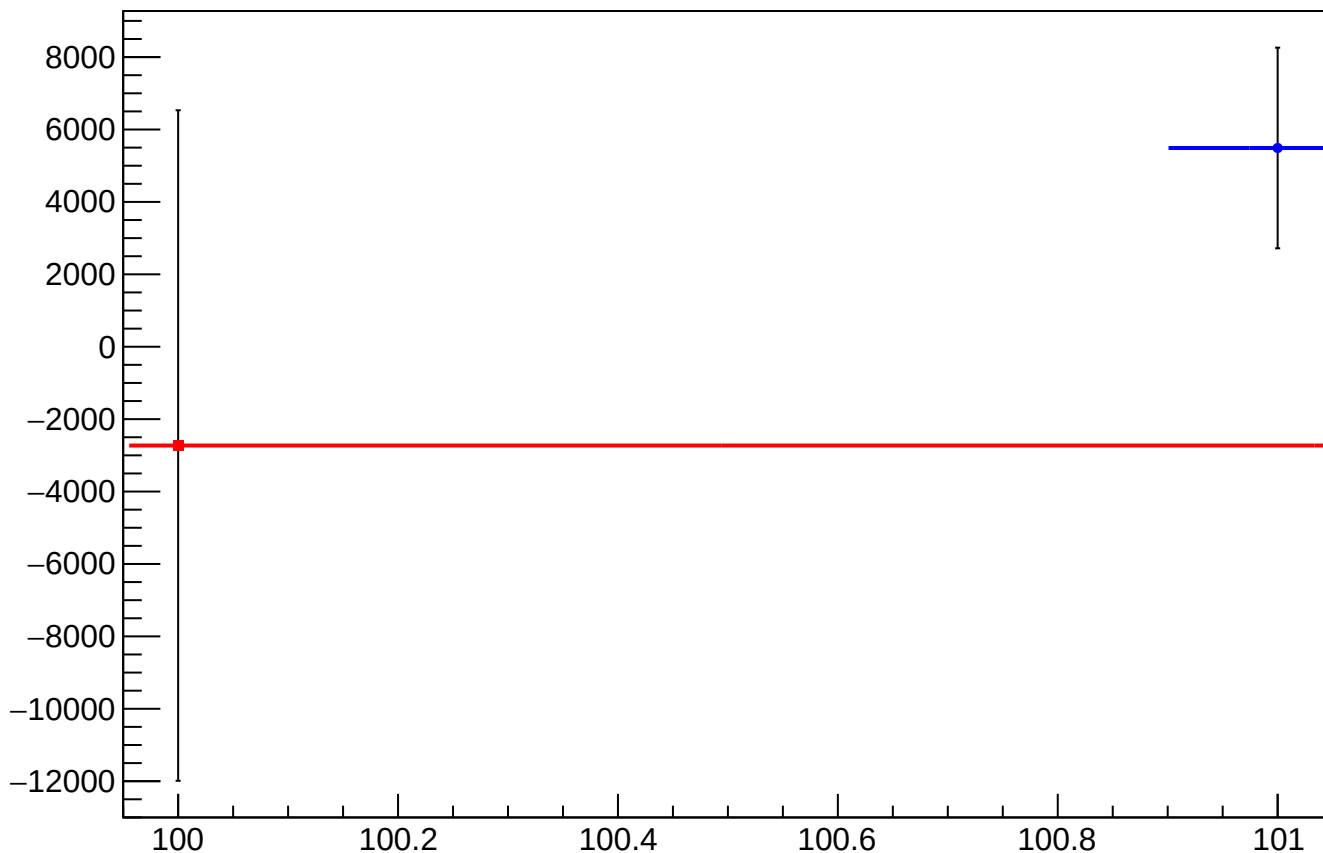
In: 4428.708 $\pm$ 3.867  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 4416.578 $\pm$ 3.660  $\chi^2$ /NDF: 94.3/1



eigen\_cor\_asym\_usr\_atr2\_dd\_mean vs Slug, Sign Corrected



Right In: 5489.580+/-2770.898  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2728.584+/-9260.483  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

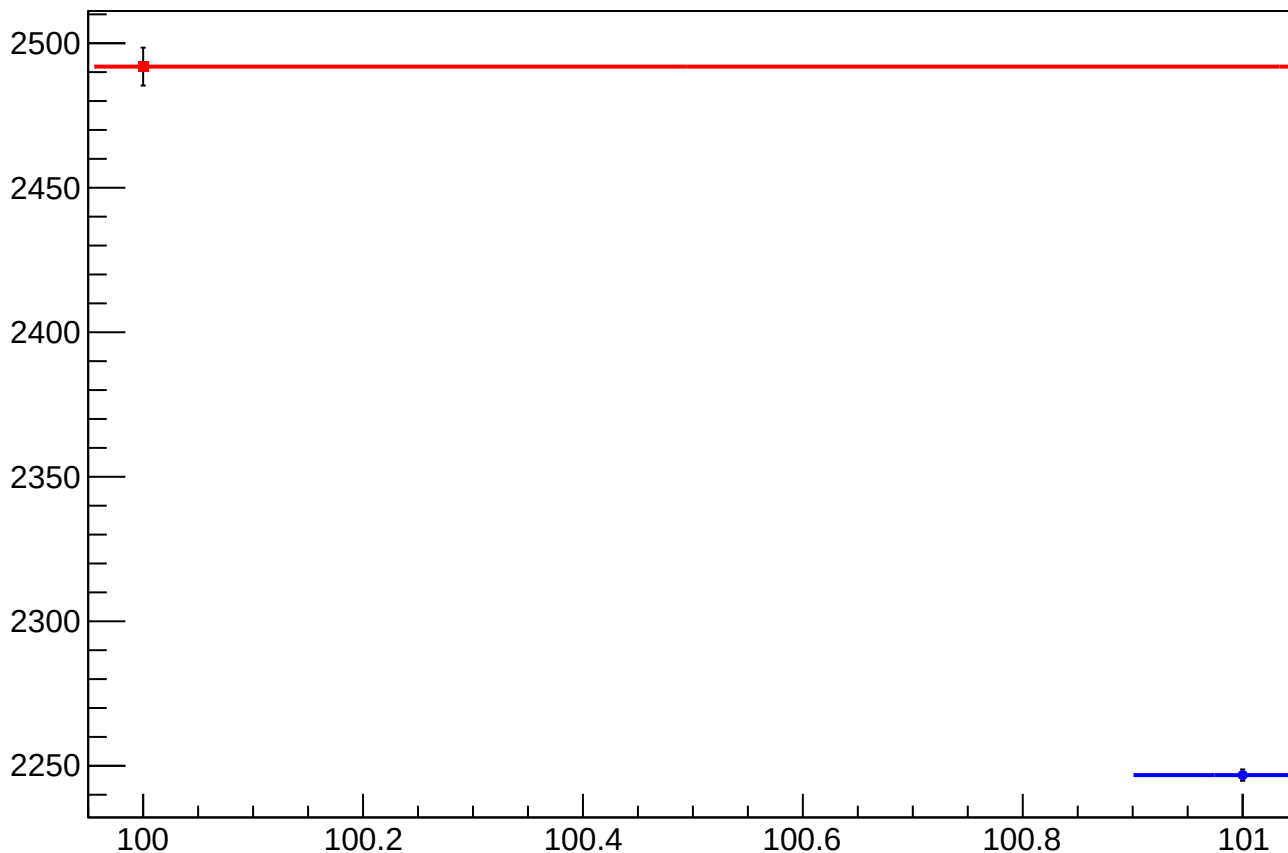
Right: 4814.261+/-2654.610  $\chi^2$ /NDF: 0.7/1

In: 5489.580+/-2770.898  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 4814.261+/-2654.610  $\chi^2$ /NDF: 0.7/1

eigen\_cor\_asym\_usr\_atr2\_dd\_rms vs Slug, Sign Corrected



Right In: 2246.776 $\pm$ 1.959  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2491.916 $\pm$ 6.548  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

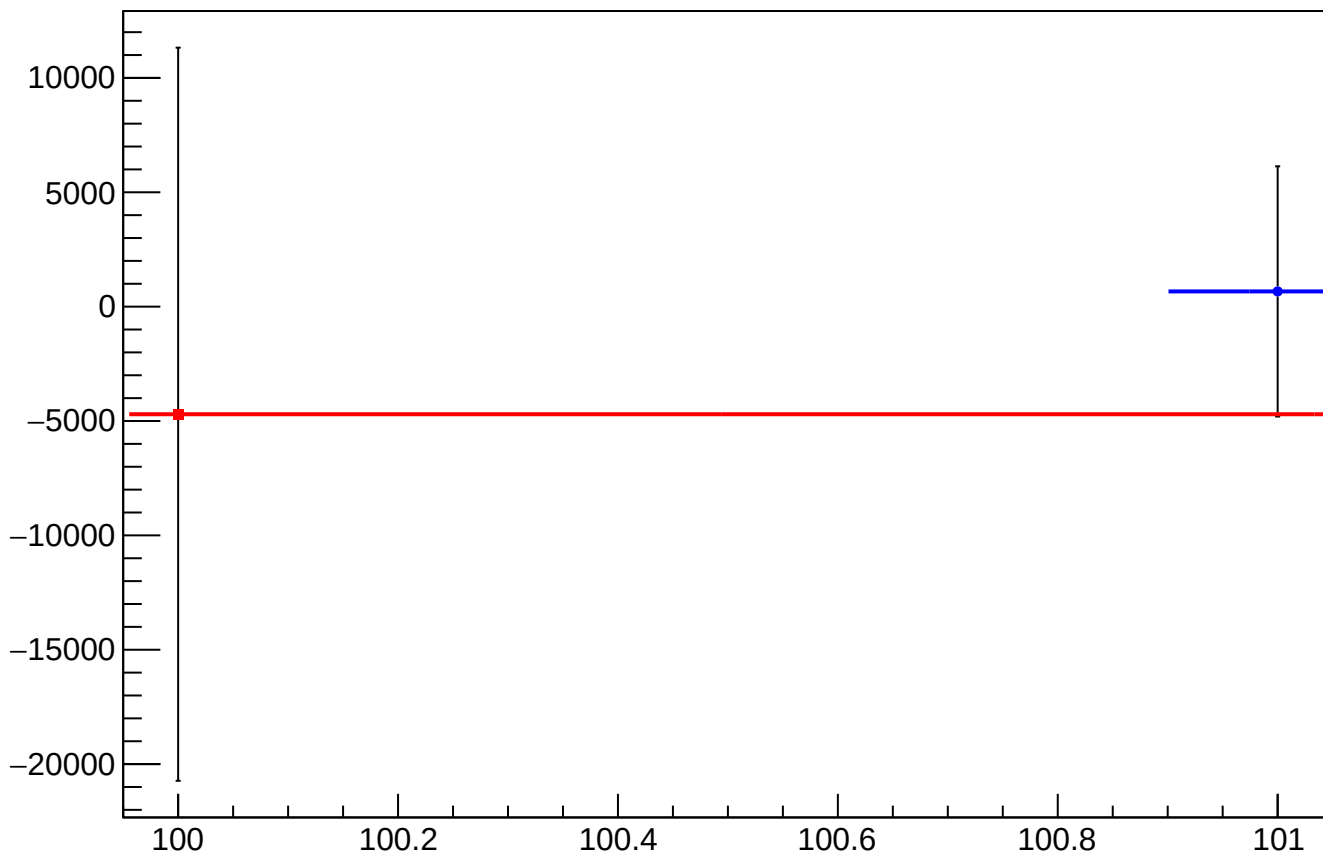
Right: 2266.920 $\pm$ 1.877  $\chi^2$ /NDF: 1286.3/1

In: 2246.776 $\pm$ 1.959  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2266.920 $\pm$ 1.877  $\chi^2$ /NDF: 1286.3/1

asym\_usr\_atr2\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 665.589+/-5469.465  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4703.763+/-16025.921  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

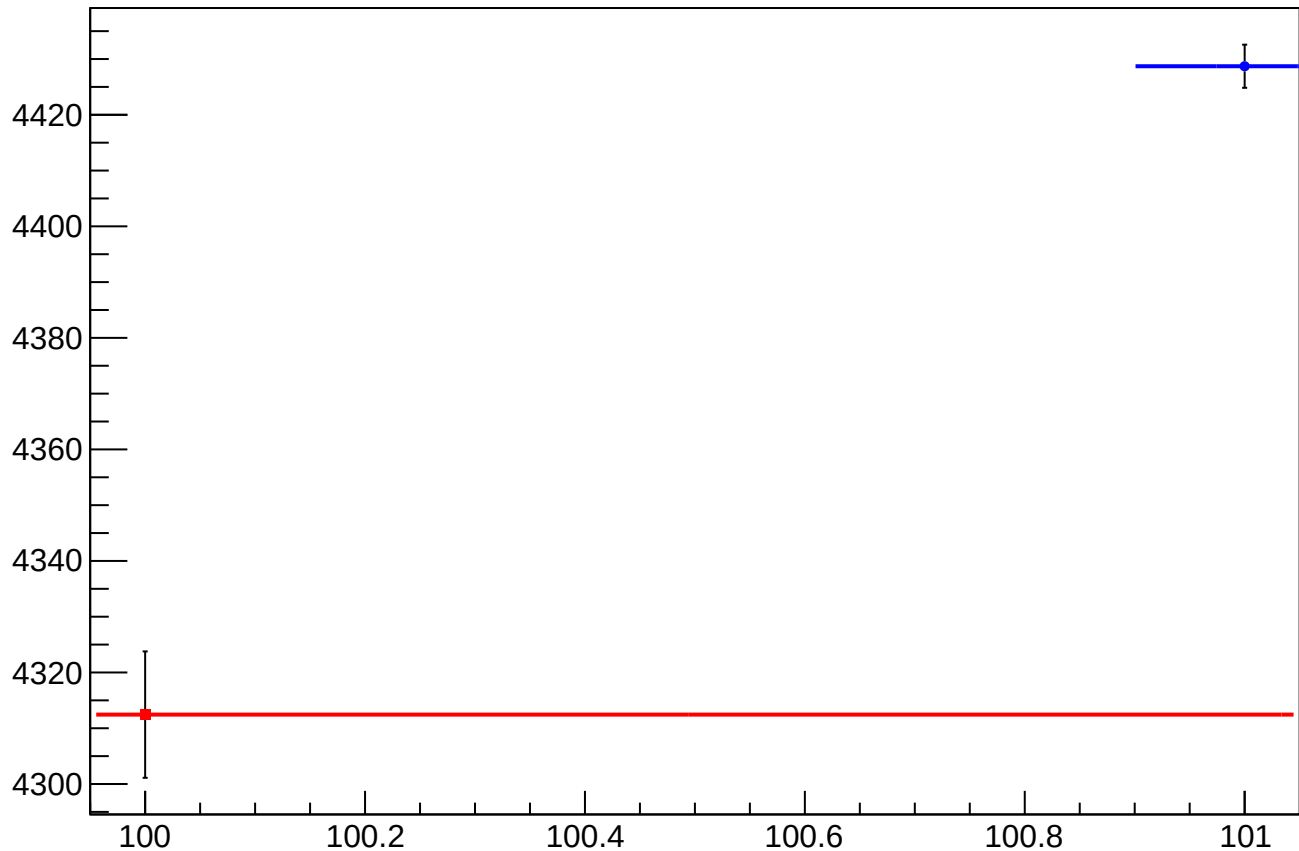
Right: 105.424+/-5176.304  $\chi^2/\text{NDF}$ : 0.1/1

In: 665.589+/-5469.465  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 105.424+/-5176.304  $\chi^2/\text{NDF}$ : 0.1/1

asym\_usr\_atr2\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4428.708 $\pm$ 3.867  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4312.446 $\pm$ 11.332  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

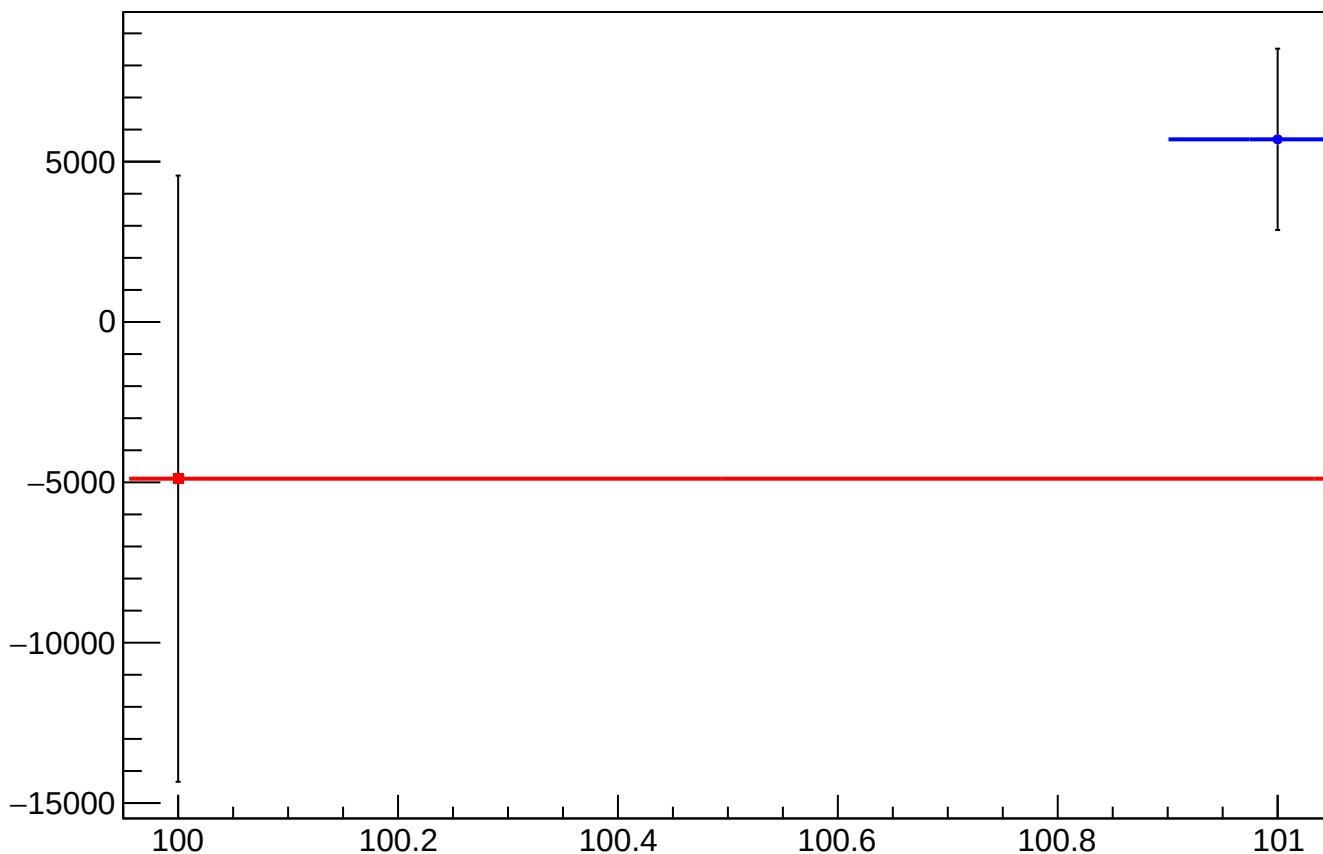
Right: 4416.578 $\pm$ 3.660  $\chi^2/\text{NDF}$ : 94.3/1

In: 4428.708 $\pm$ 3.867  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4416.578 $\pm$ 3.660  $\chi^2/\text{NDF}$ : 94.3/1

dit\_asym\_usr\_atr2\_dd\_mean vs Slug, Sign Corrected



Right In: 5695.512 $\pm$ 2827.520  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4885.836 $\pm$ 9451.615  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

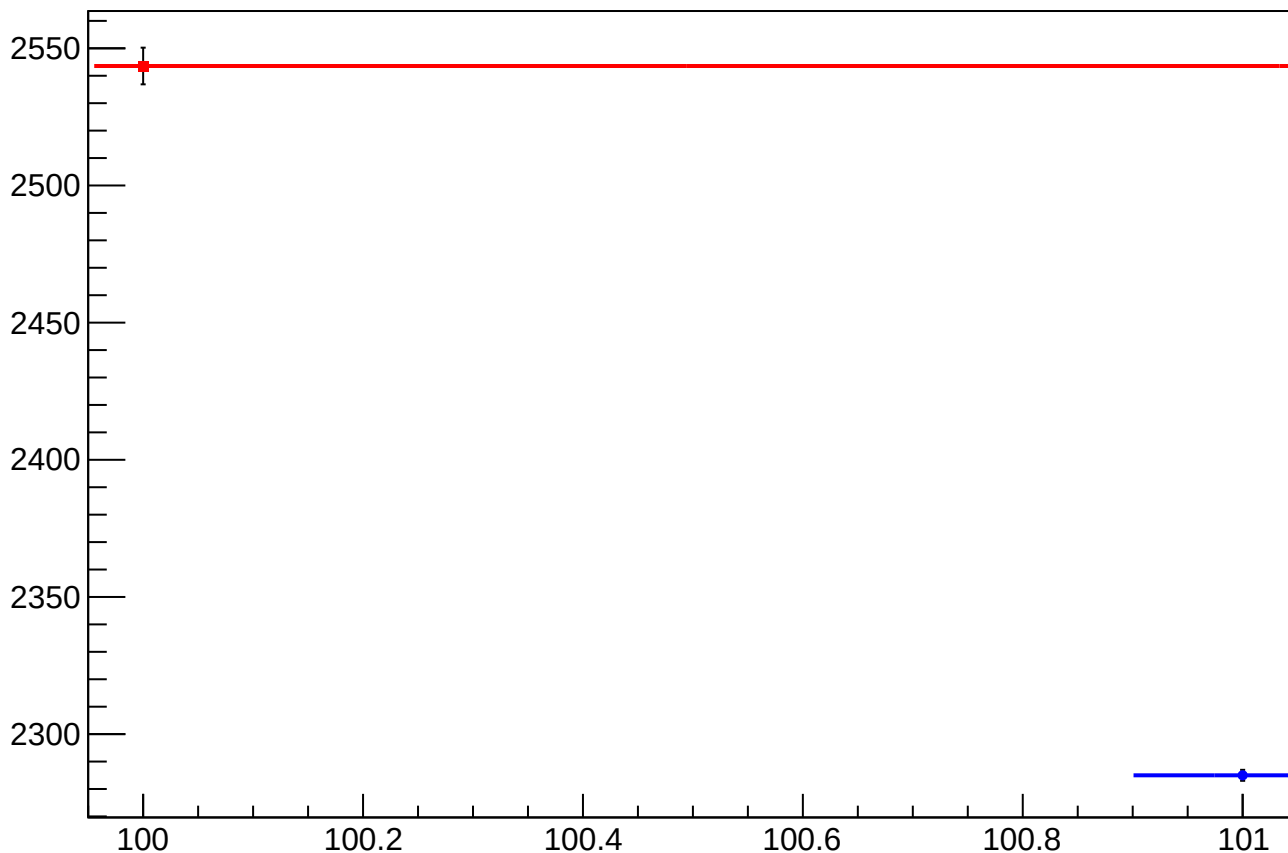
Right: 4826.321 $\pm$ 2708.900  $\chi^2$ /NDF: 1.2/1

In: 5695.512 $\pm$ 2827.520  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 4826.321 $\pm$ 2708.900  $\chi^2$ /NDF: 1.2/1

# dit\_asym\_usr\_atr2\_dd\_rms vs Slug, Sign Corrected



Right In: 2284.985+/-1.999  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2543.553+/-6.683  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

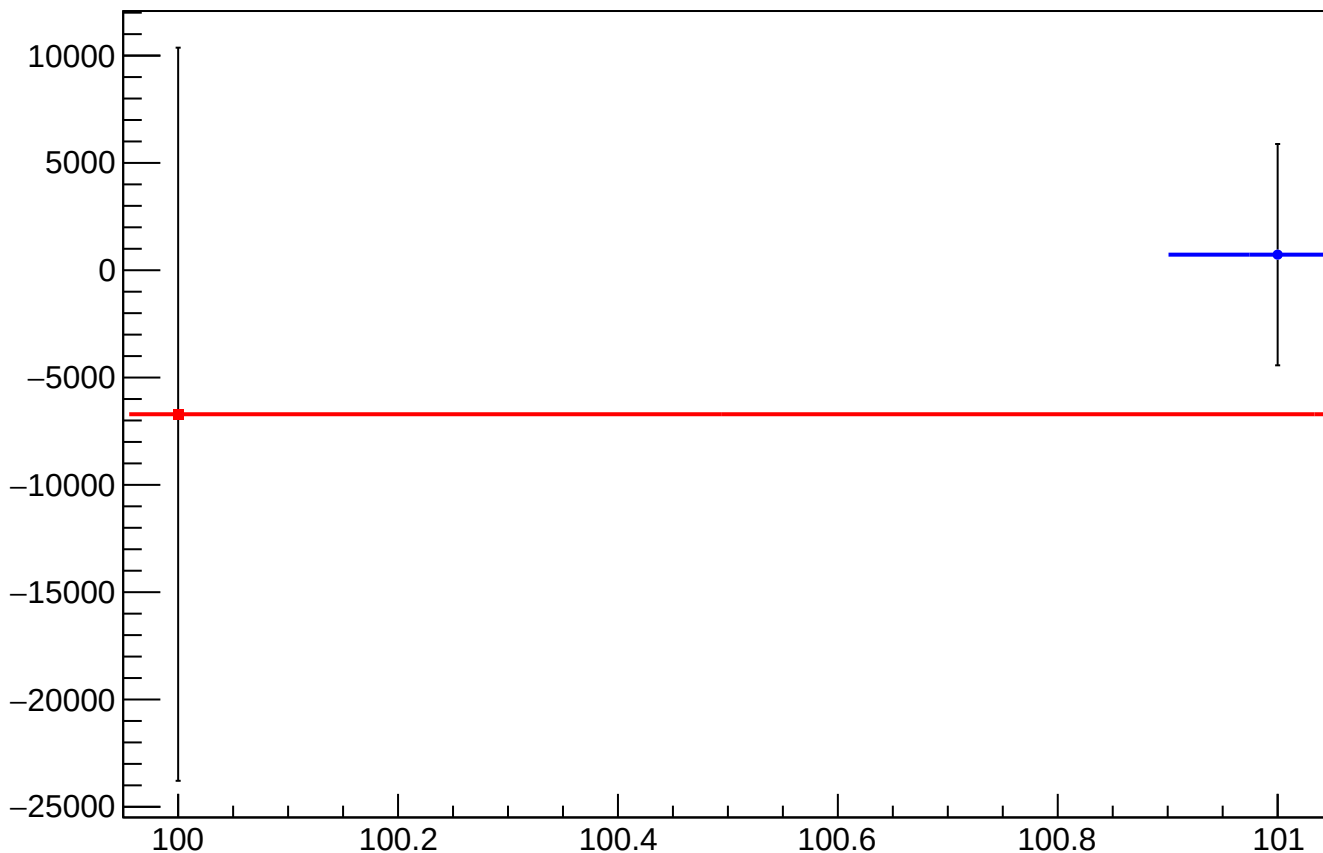
Right: 2306.225+/-1.915  $\chi^2/\text{NDF}$ : 1373.9/1

In: 2284.985+/-1.999  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2306.225+/-1.915  $\chi^2/\text{NDF}$ : 1373.9/1

asym\_usr\_atr2\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 725.788 $\pm$ 5155.913  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -6709.107 $\pm$ 17078.720  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

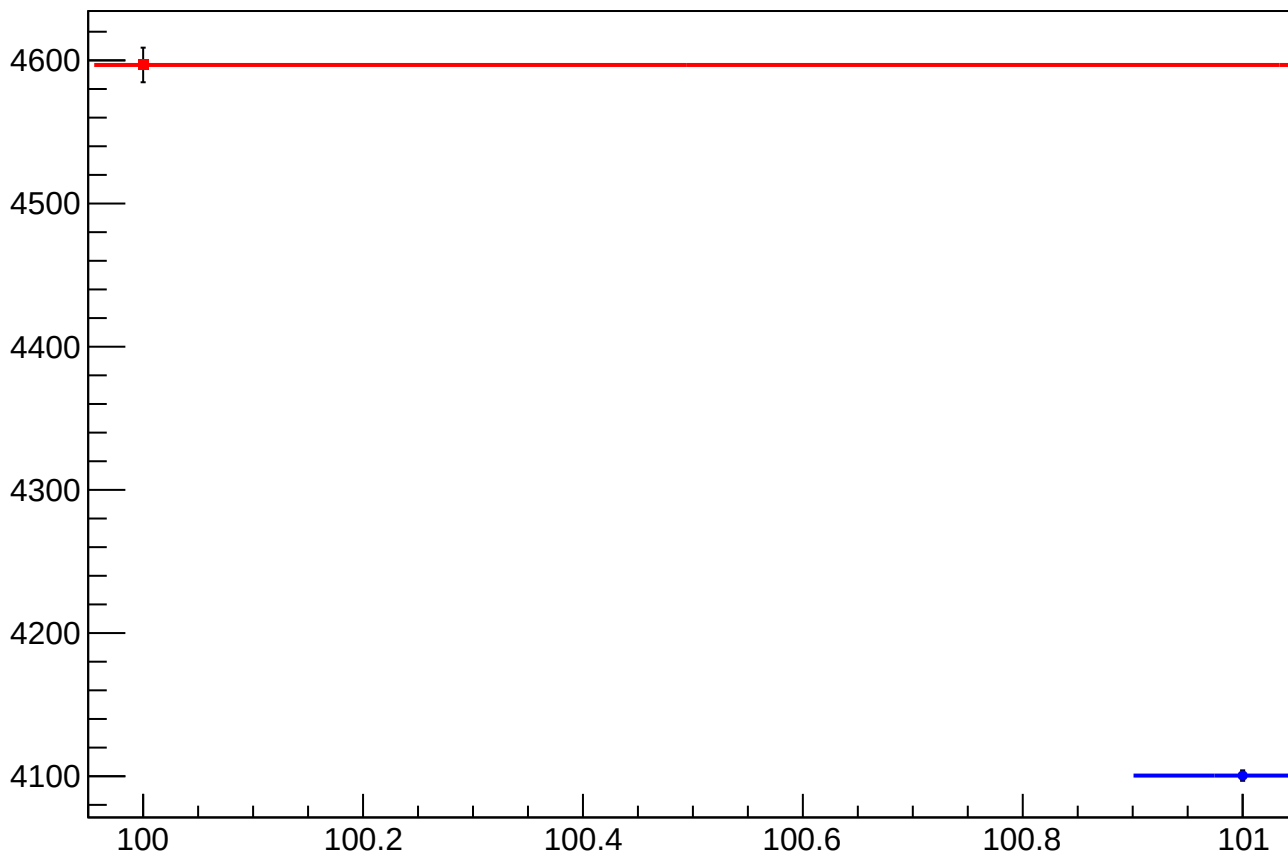
Right: 104.782 $\pm$ 4935.893  $\chi^2$ /NDF: 0.2/1

In: 725.788 $\pm$ 5155.913  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 104.782 $\pm$ 4935.893  $\chi^2$ /NDF: 0.2/1

asym\_usr\_atr2\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4100.457+/-3.646  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4596.787+/-12.076  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4141.914+/-3.490  $\chi^2/\text{NDF}$ : 1548.0/1

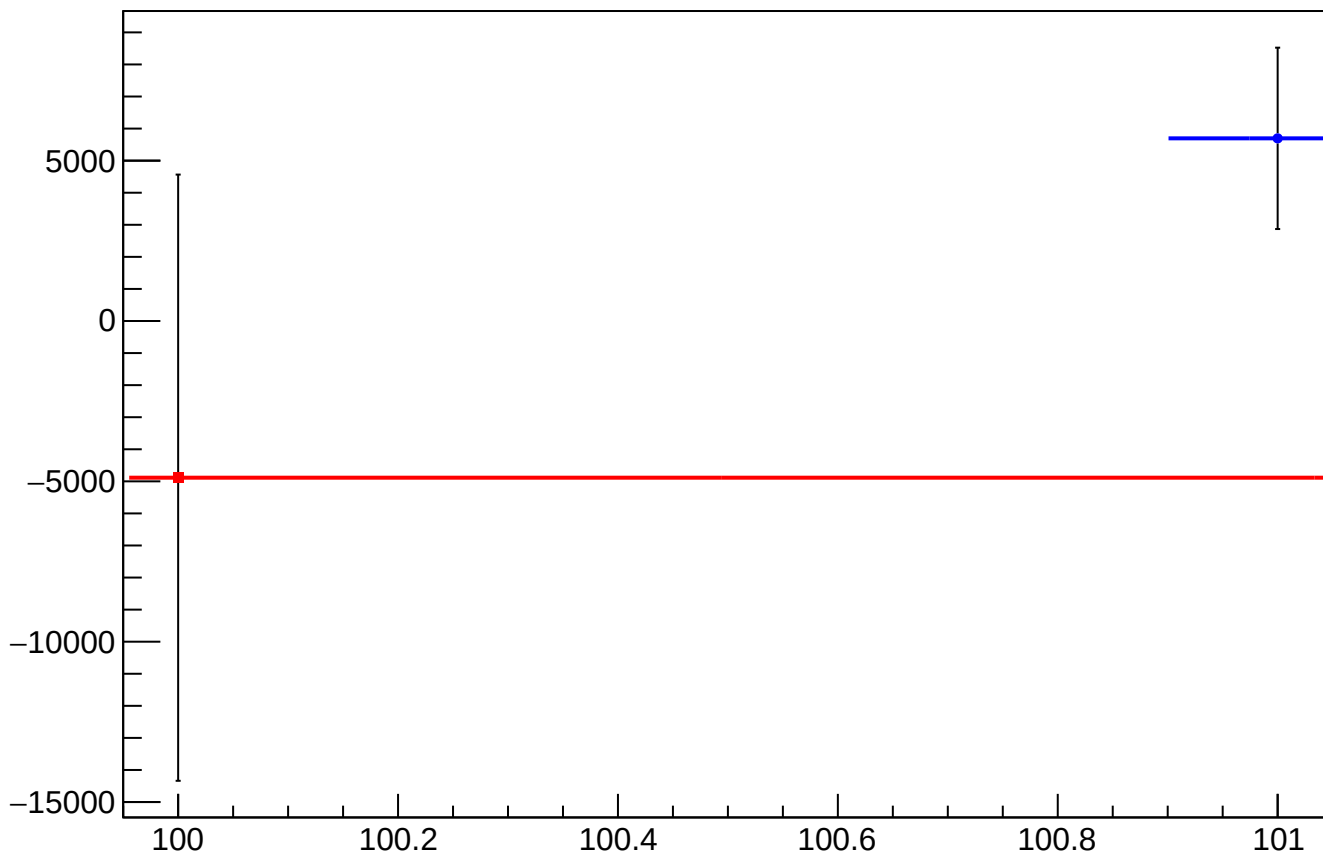
In: 4100.457+/-3.646  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4141.914+/-3.490  $\chi^2/\text{NDF}$ : 1548.0/1



eigen\_dit\_asym\_usr\_atr2\_dd\_mean vs Slug, Sign Corrected



Right In: 5695.553+/-2827.520  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4886.000+/-9451.619  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

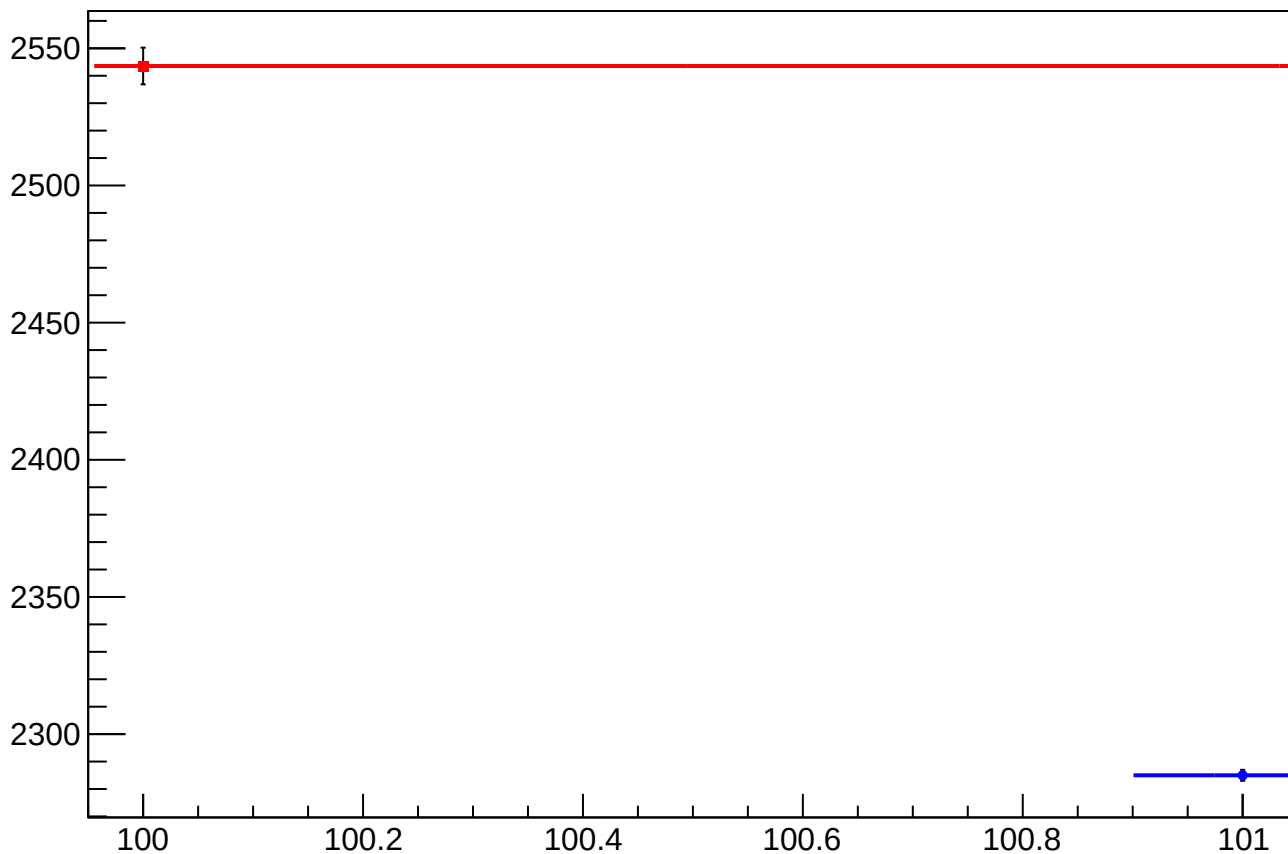
Right: 4826.346+/-2708.900  $\chi^2/\text{NDF}$ : 1.2/1

In: 5695.553+/-2827.520  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4826.346+/-2708.900  $\chi^2/\text{NDF}$ : 1.2/1

eigen\_dit\_asym\_usr\_atr2\_dd\_rms vs Slug, Sign Corrected



Right In: 2284.985 $\pm$ 1.999  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2543.554 $\pm$ 6.683  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

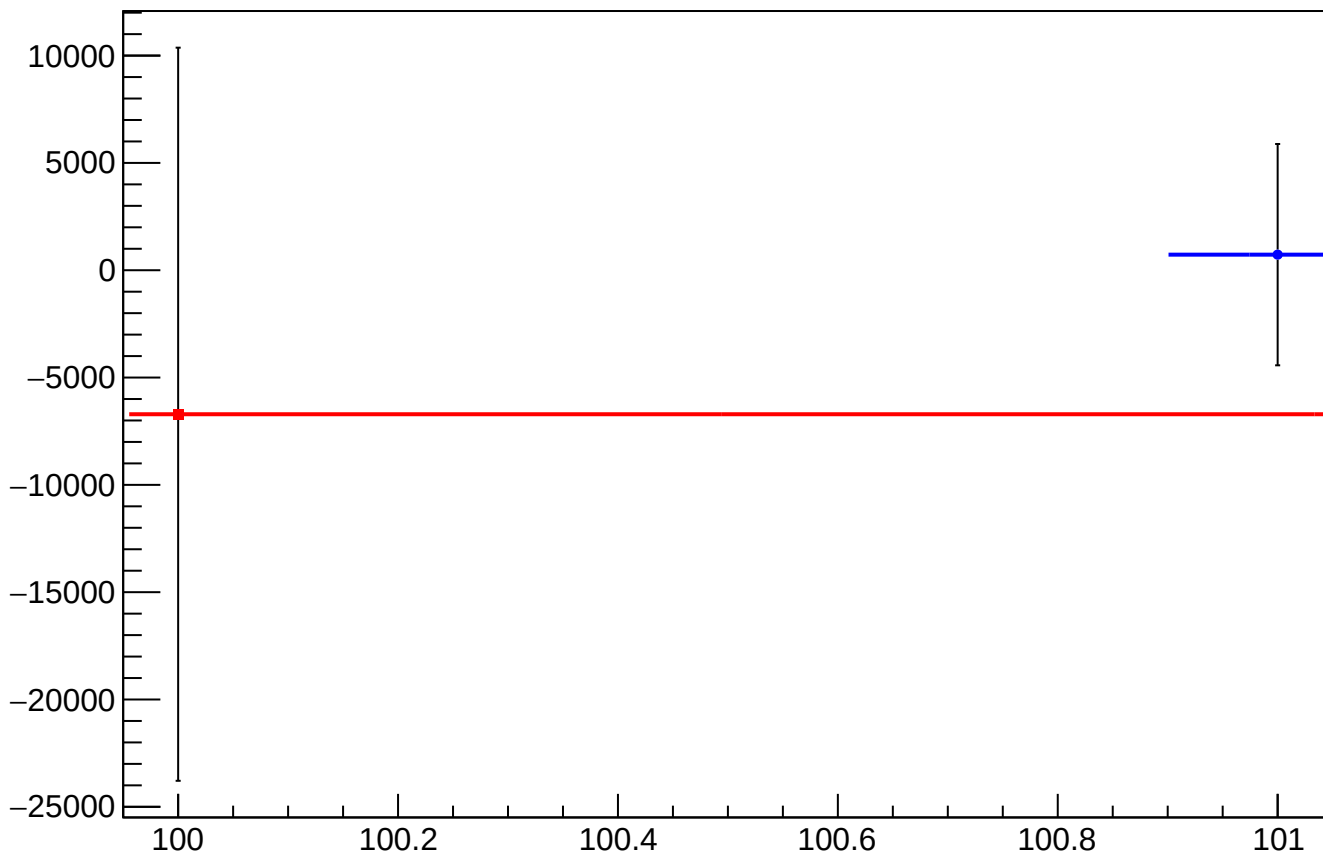
Right: 2306.225 $\pm$ 1.915  $\chi^2$ /NDF: 1373.9/1

In: 2284.985 $\pm$ 1.999  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2306.225 $\pm$ 1.915  $\chi^2$ /NDF: 1373.9/1

asym\_usr\_atr2\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 725.815 $\pm$ 5155.909  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -6709.270 $\pm$ 17078.678  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

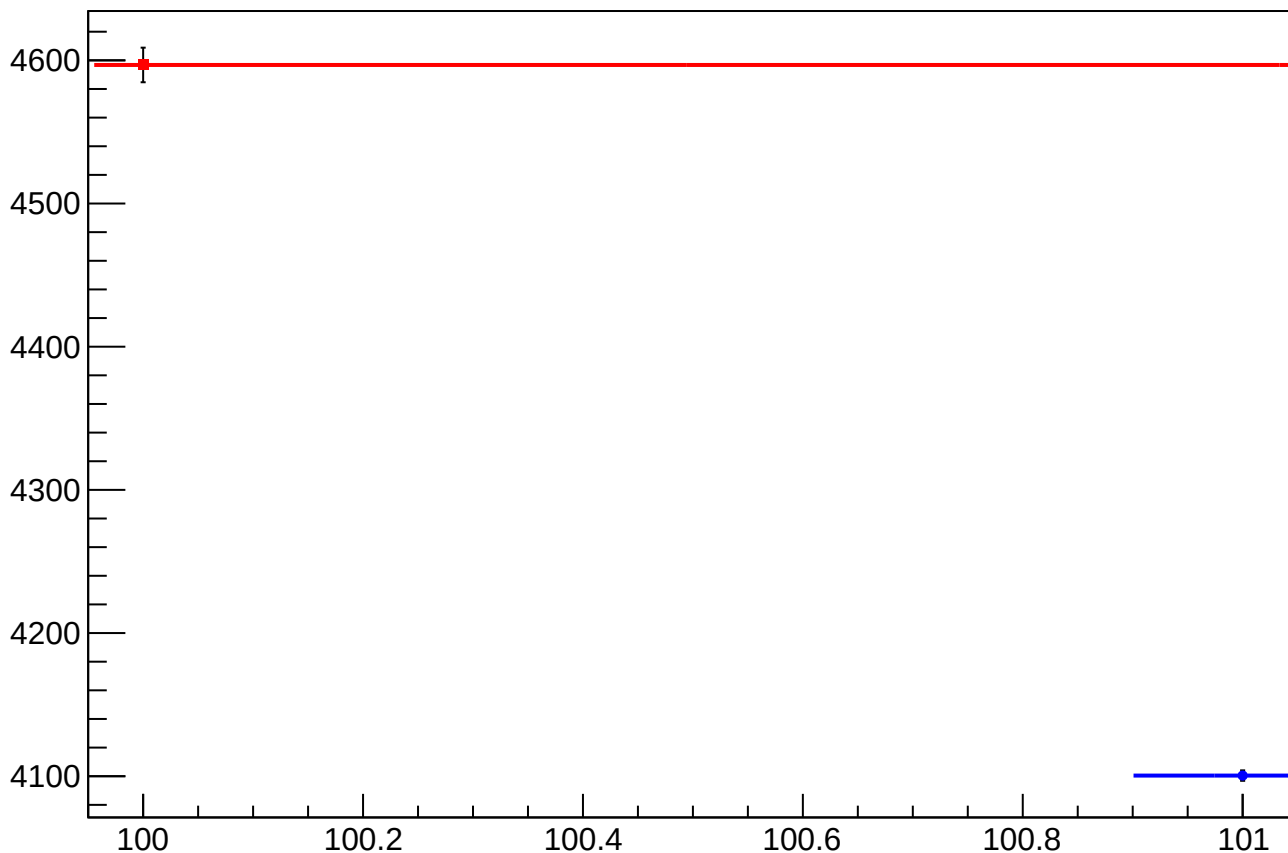
Right: 104.792 $\pm$ 4935.888  $\chi^2$ /NDF: 0.2/1

In: 725.815 $\pm$ 5155.909  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 104.792 $\pm$ 4935.888  $\chi^2$ /NDF: 0.2/1

asym\_usr\_atr2\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4100.454+/-3.646  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4596.776+/-12.076  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

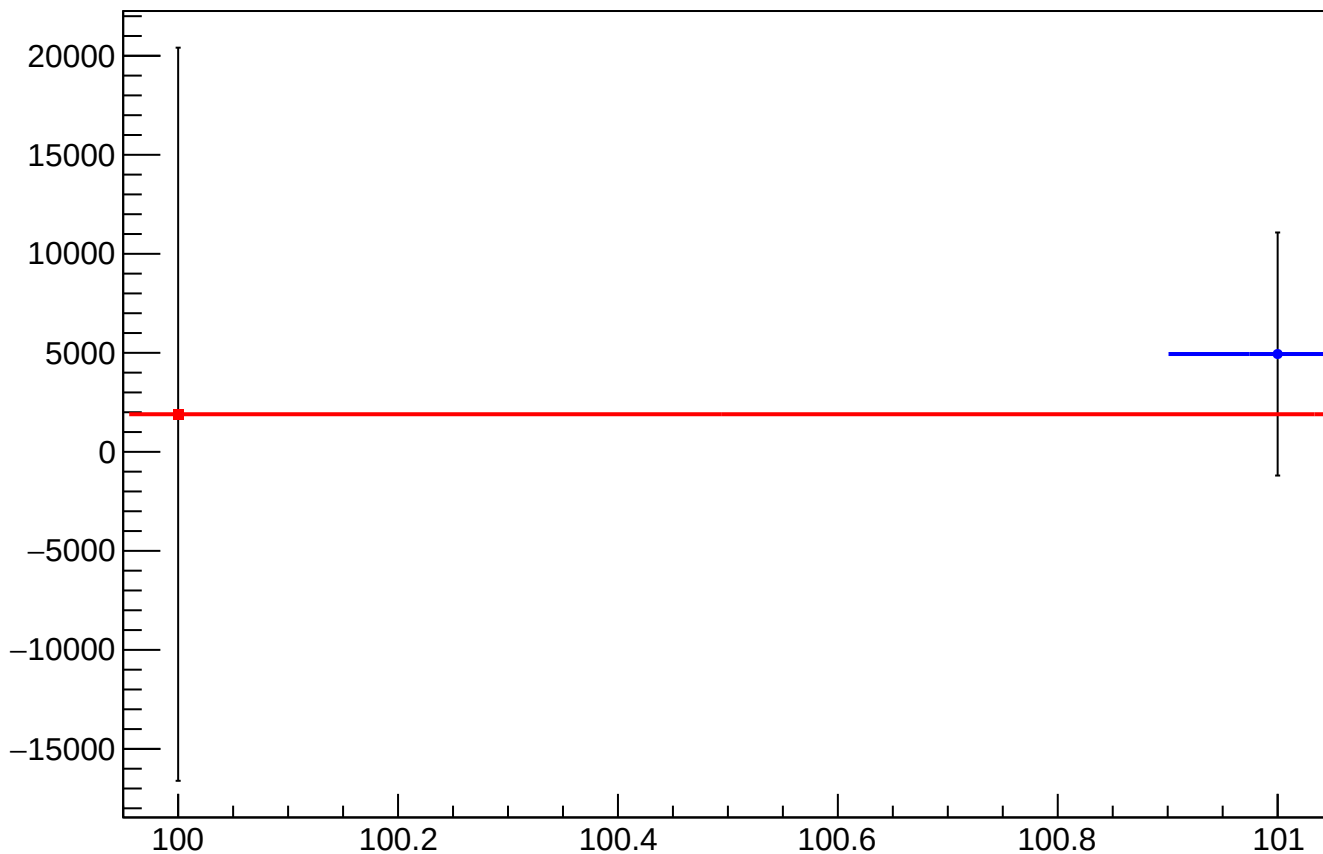
Right: 4141.910+/-3.490  $\chi^2/\text{NDF}$ : 1548.0/1

In: 4100.454+/-3.646  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4141.910+/-3.490  $\chi^2/\text{NDF}$ : 1548.0/1

# asym\_usr\_atr2\_dd\_mean vs Slug, Sign Corrected



Right In: 4940.313+/-6136.747  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1899.448+/-18510.464  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

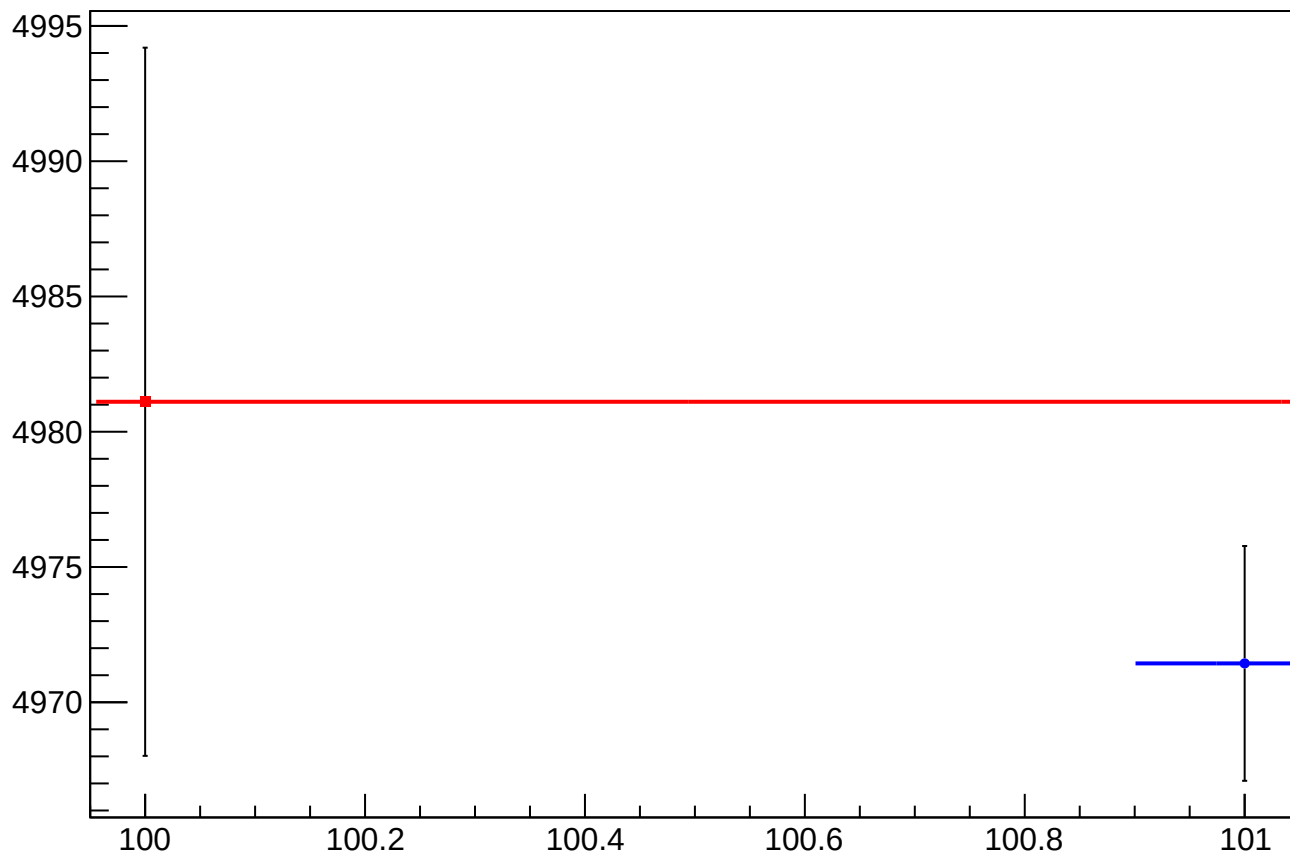
Right: 4639.185+/-5824.976  $\chi^2/\text{NDF}$ : 0.0/1

In: 4940.313+/-6136.747  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4639.185+/-5824.976  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_usr\_atr2\_dd\_rms vs Slug, Sign Corrected



Right In: 4971.437 $\pm$ 4.339  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4981.108 $\pm$ 13.089  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

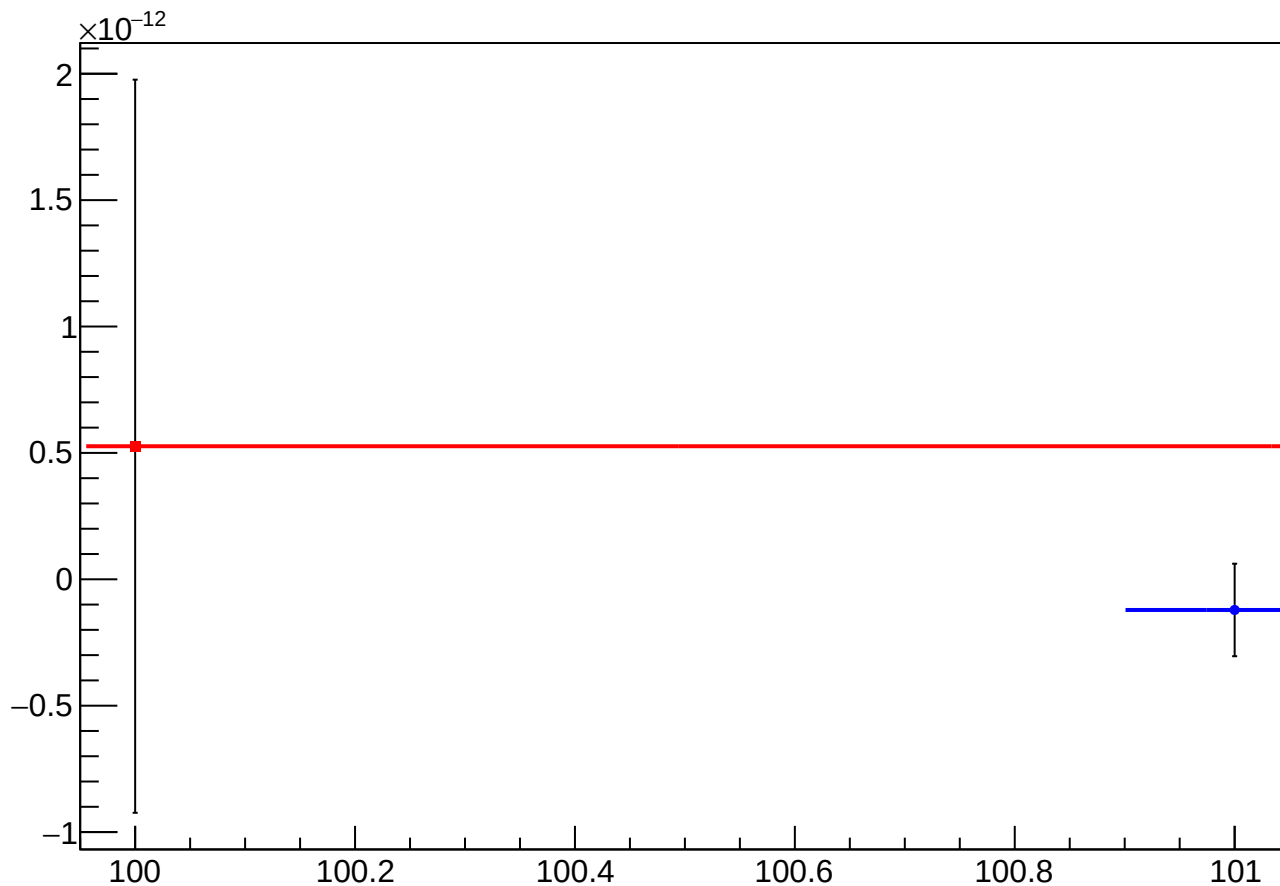
Right: 4972.394 $\pm$ 4.119  $\chi^2$ /NDF: 0.5/1

In: 4971.437 $\pm$ 4.339  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4972.394 $\pm$ 4.119  $\chi^2$ /NDF: 0.5/1

asym\_usr\_atr2\_dd\_reg\_vs\_slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

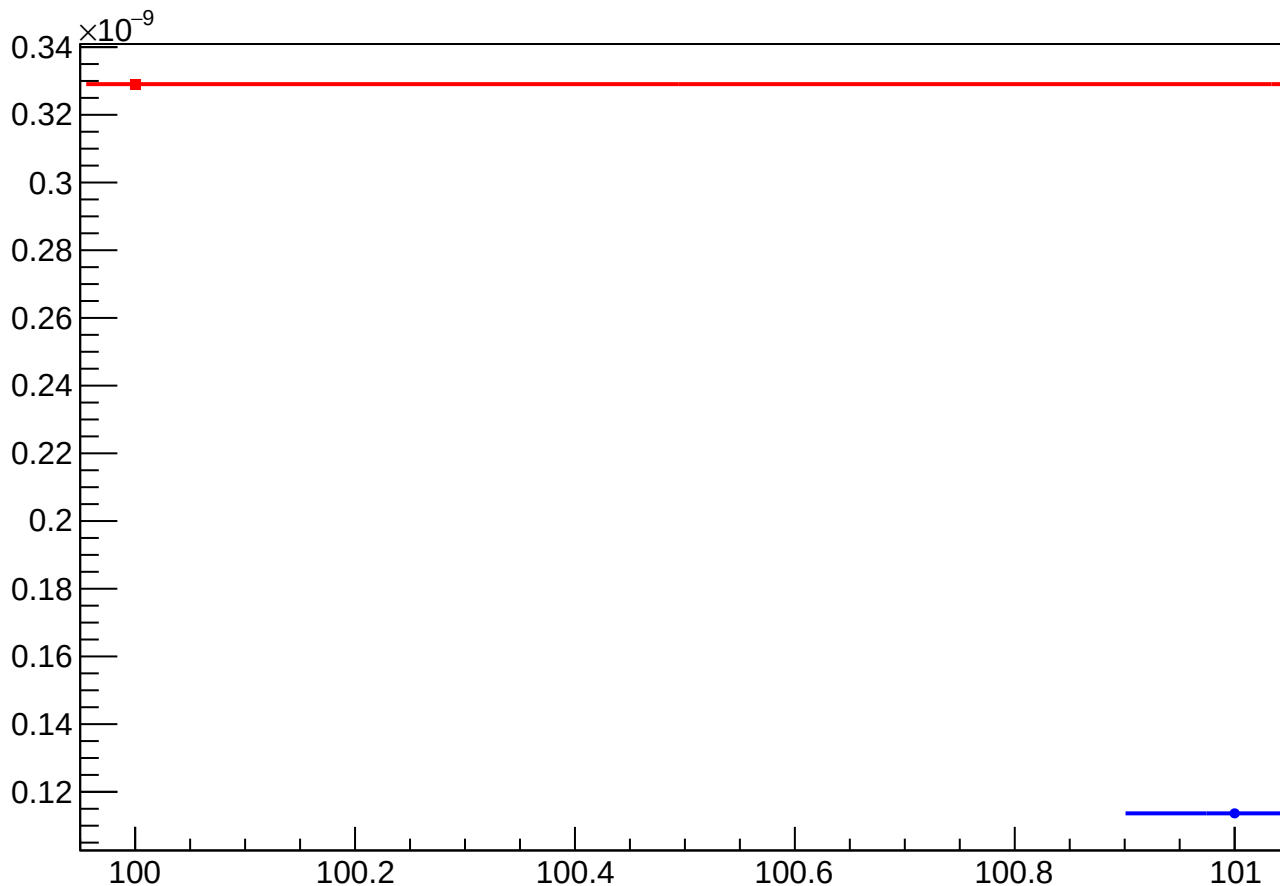
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

asym\_usr\_atr2\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 43442.3/1

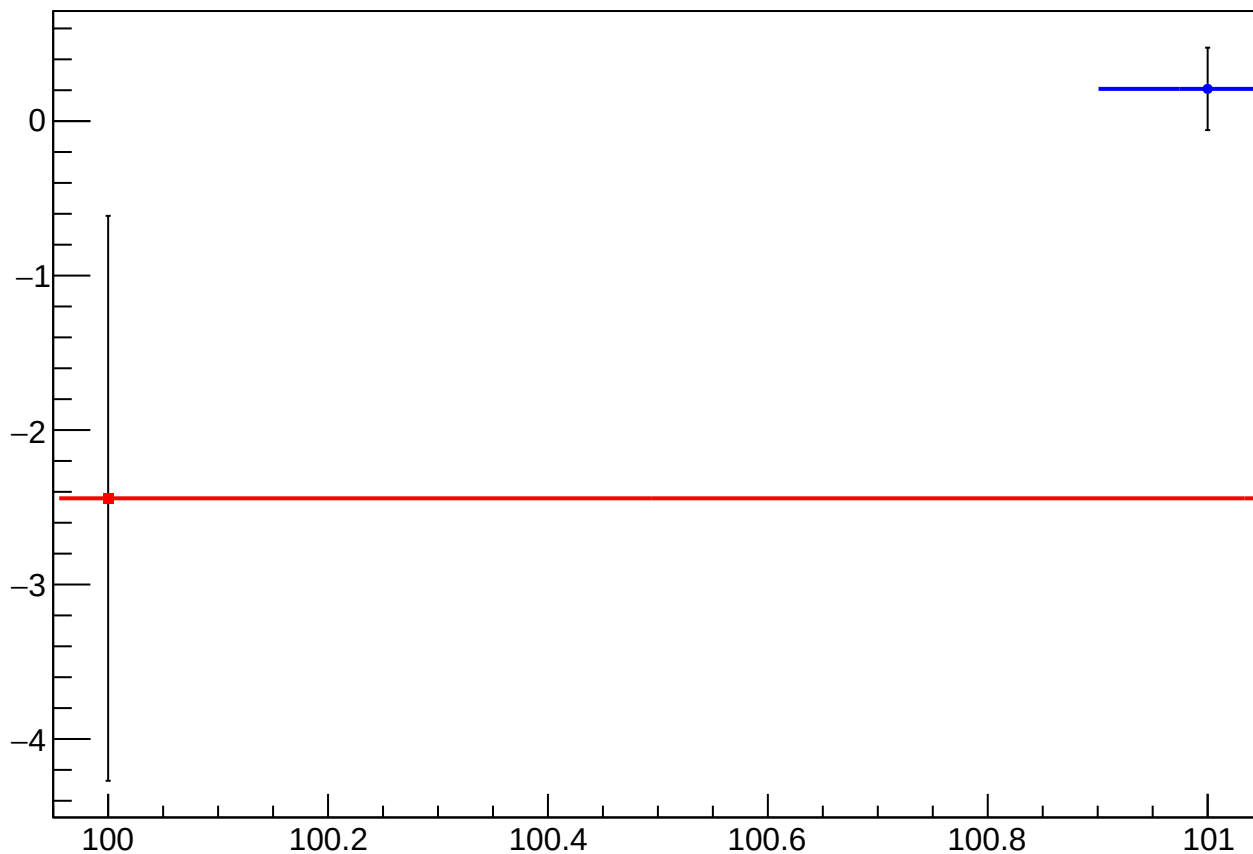
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 43442.3/1



asym\_usr\_atr2\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.209 $\pm$ 0.267  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.442 $\pm$ 1.829  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

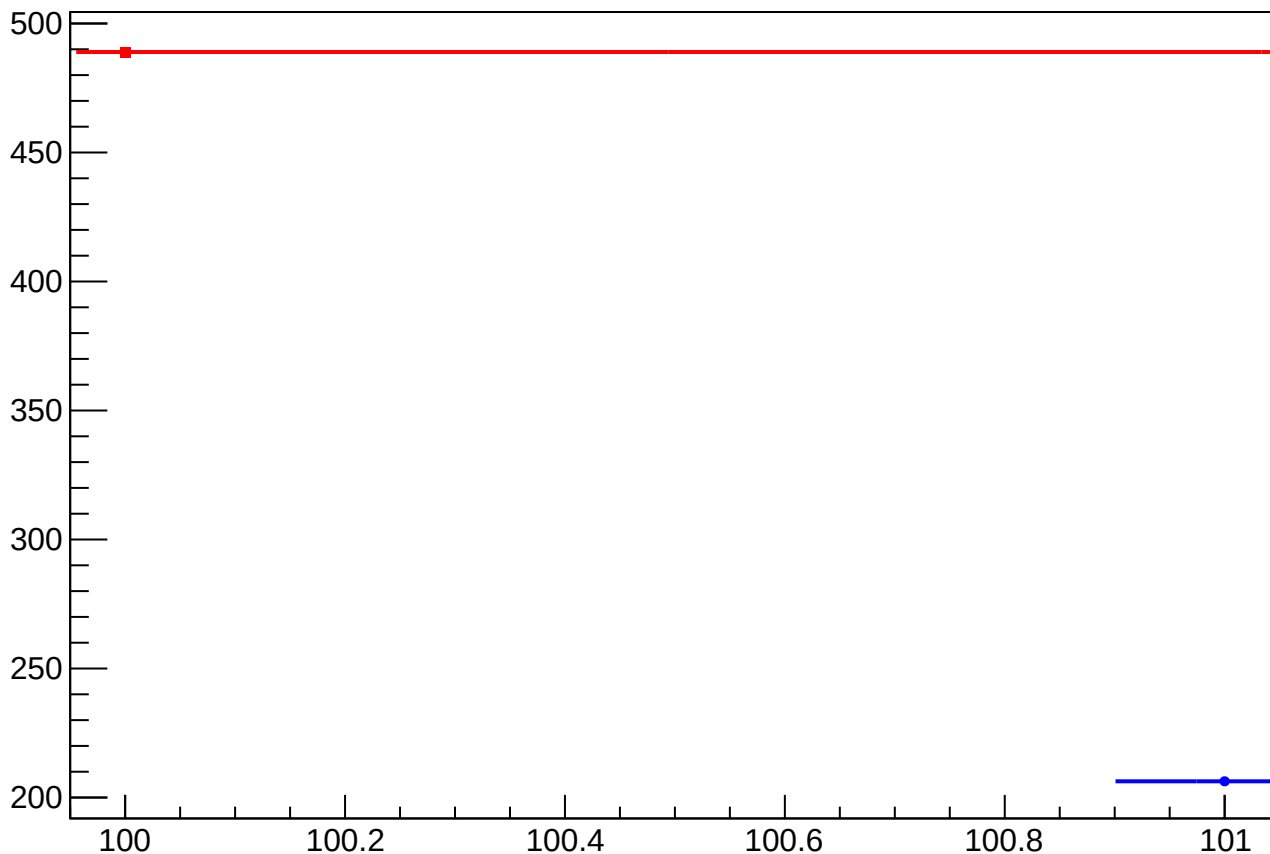
Right: 0.153 $\pm$ 0.264  $\chi^2$ /NDF: 2.1/1

In: 0.209 $\pm$ 0.267  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.153 $\pm$ 0.264  $\chi^2$ /NDF: 2.1/1

asym\_usr\_atr2\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 206.284 $\pm$ 0.189  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 488.947 $\pm$ 1.293  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

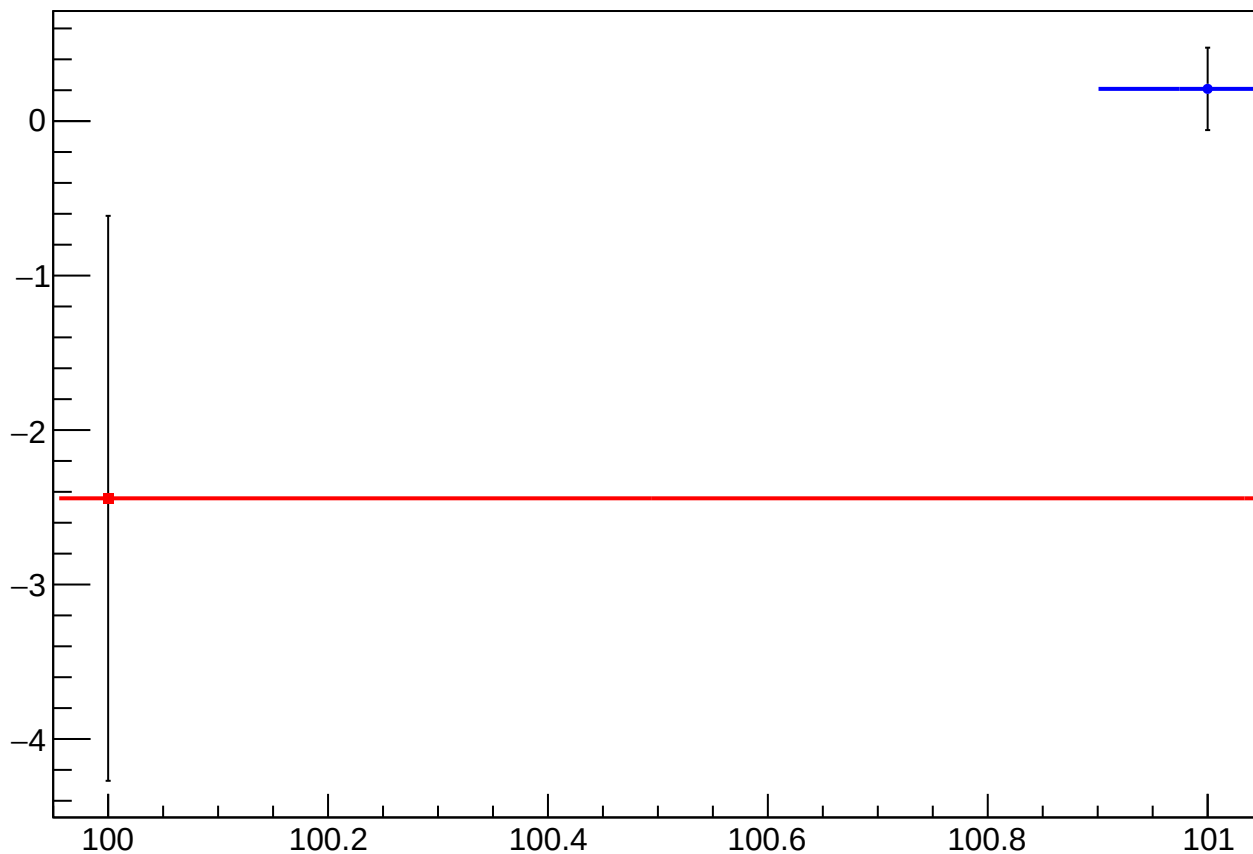
Right: 212.174 $\pm$ 0.187  $\chi^2$ /NDF: 46787.6/1

In: 206.284 $\pm$ 0.189  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 212.174 $\pm$ 0.187  $\chi^2$ /NDF: 46787.6/1

asym\_usr\_atr2\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.209 $\pm$ 0.267  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.442 $\pm$ 1.829  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

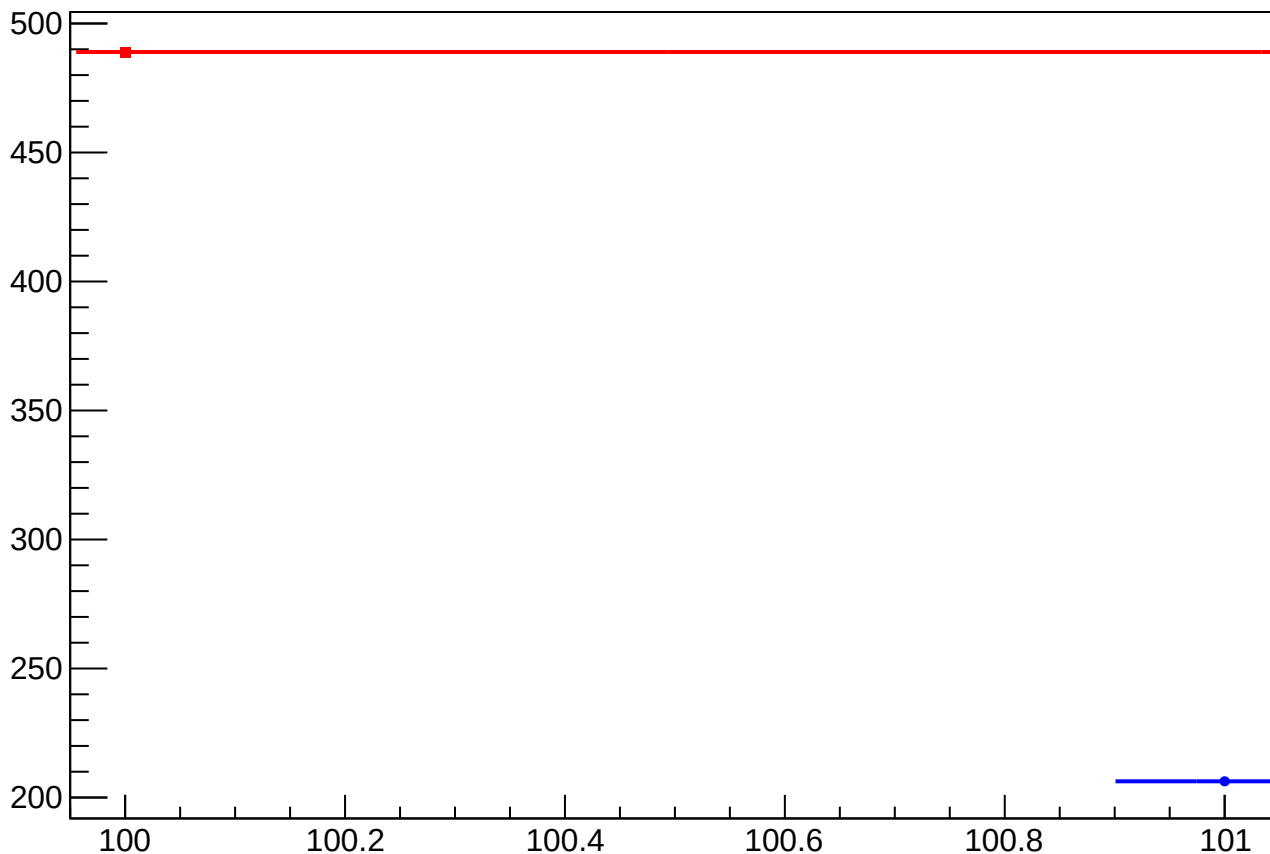
Right: 0.153 $\pm$ 0.264  $\chi^2$ /NDF: 2.1/1

In: 0.209 $\pm$ 0.267  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.153 $\pm$ 0.264  $\chi^2$ /NDF: 2.1/1

asym\_usr\_atr2\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 206.284 $\pm$ 0.189  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 488.947 $\pm$ 1.293  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

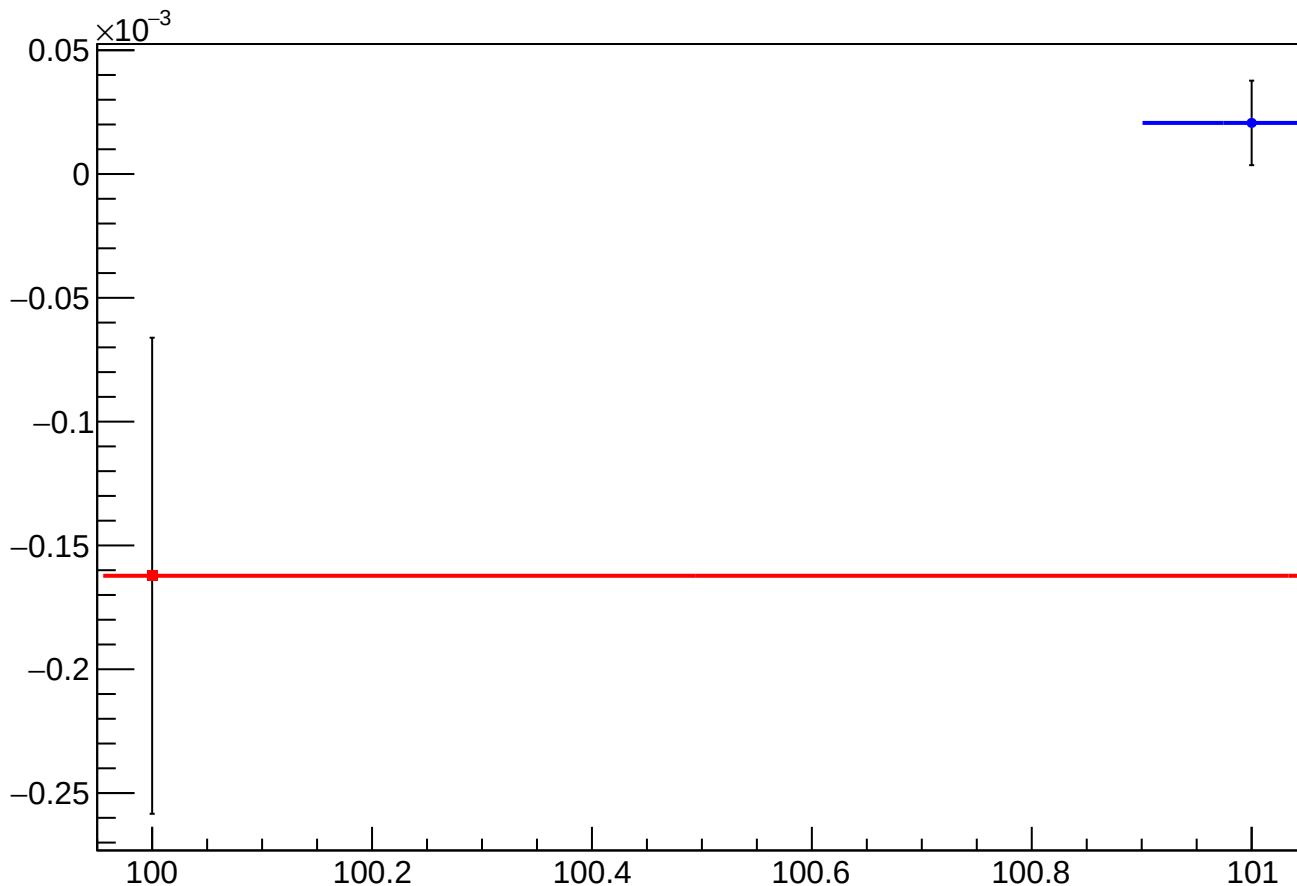
Right: 212.174 $\pm$ 0.187  $\chi^2$ /NDF: 46787.6/1

In: 206.284 $\pm$ 0.189  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 212.174 $\pm$ 0.187  $\chi^2$ /NDF: 46787.6/1

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

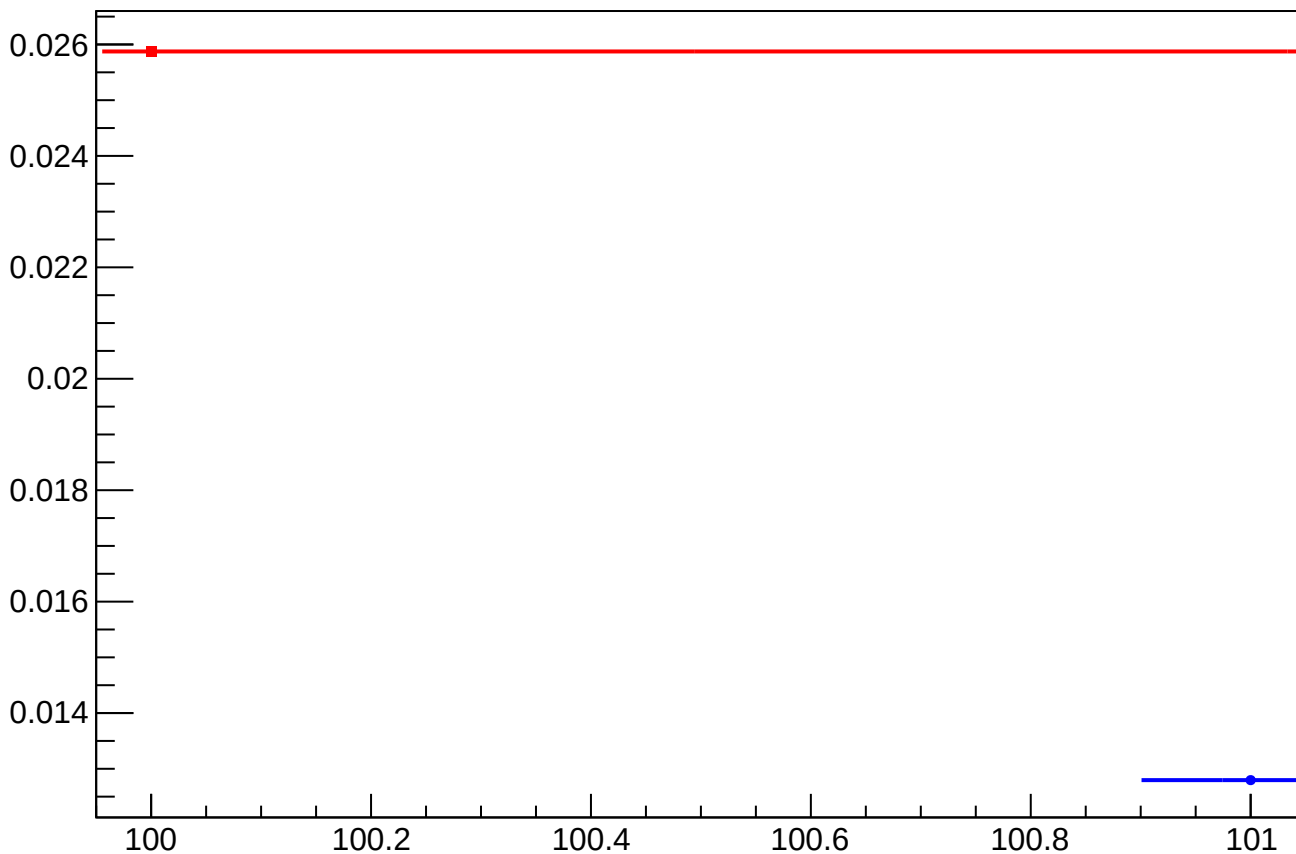
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.5/1

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

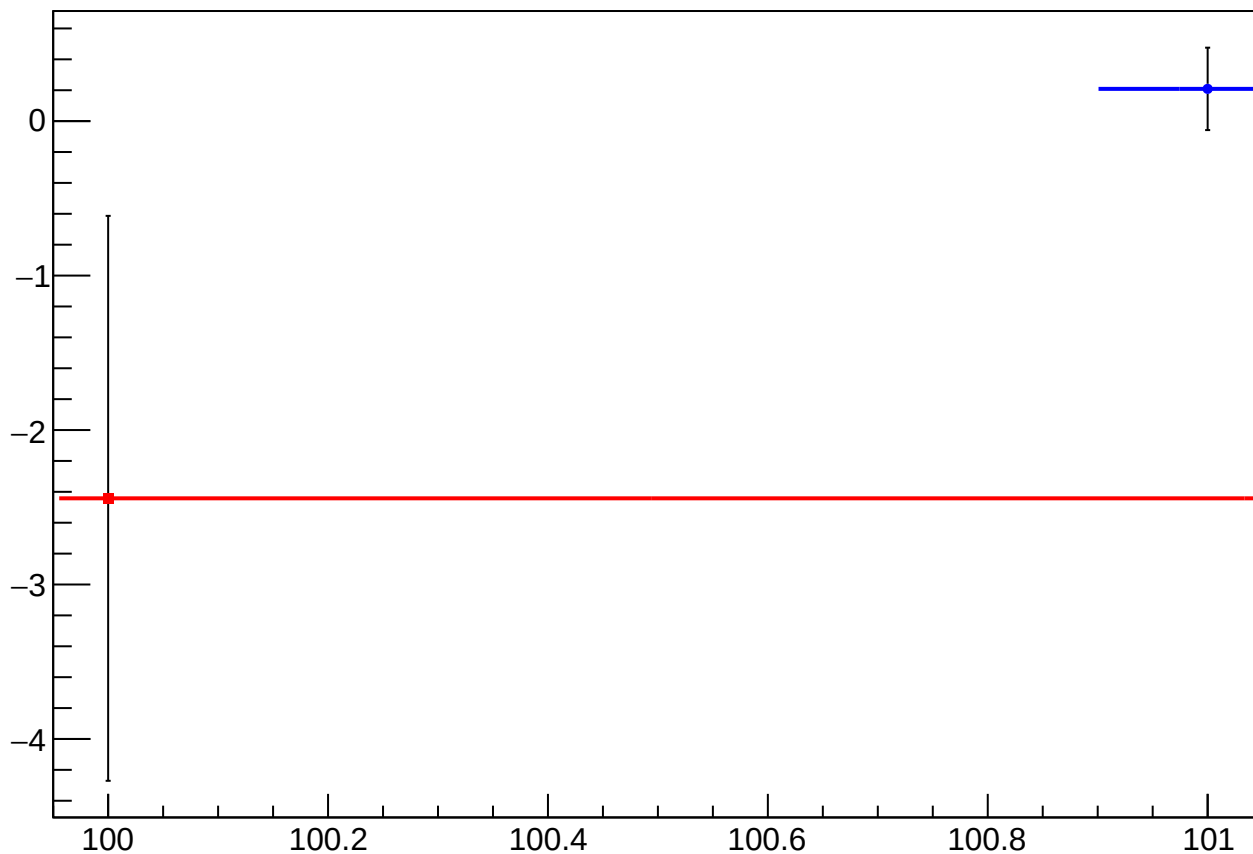
Right: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 35887.3/1

In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 35887.3/1

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.209 $\pm$ 0.267  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.442 $\pm$ 1.829  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

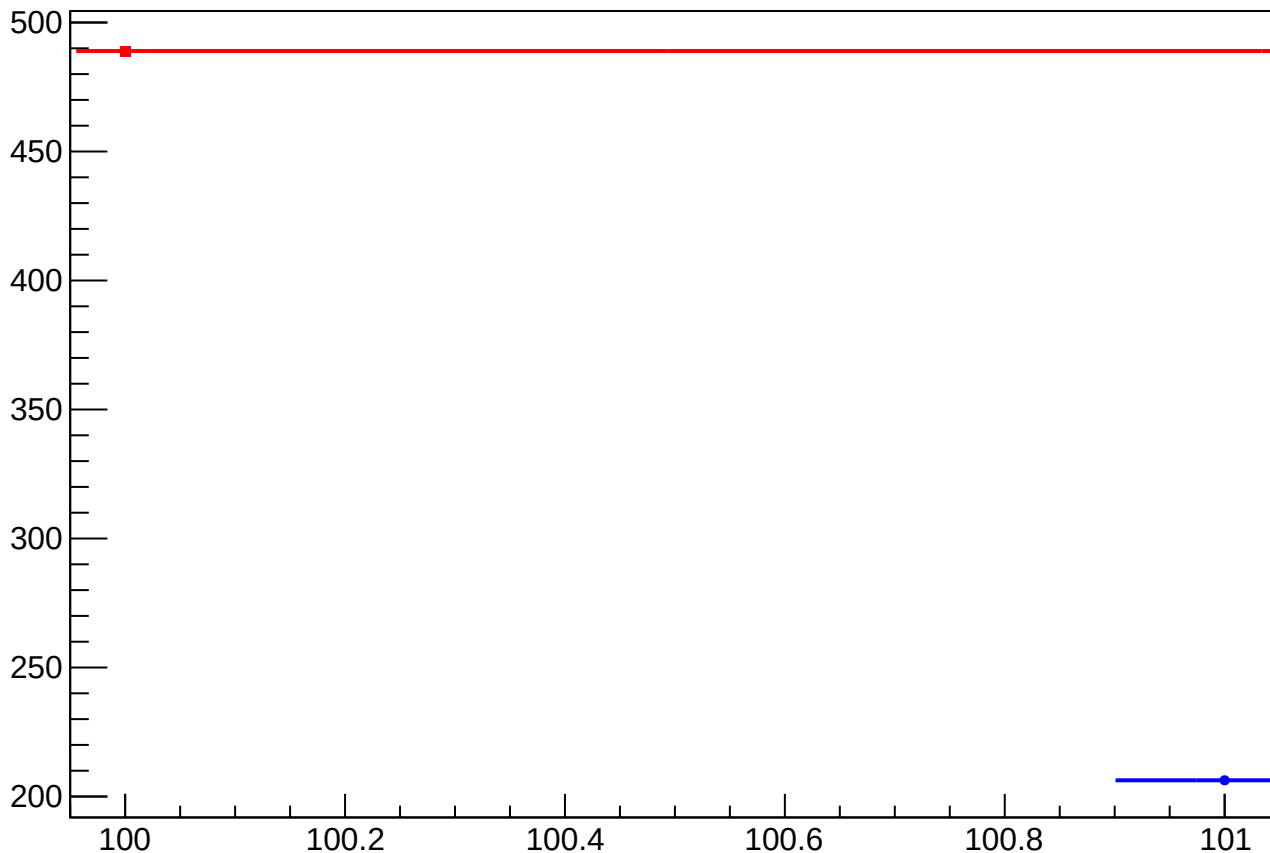
Right: 0.154 $\pm$ 0.264  $\chi^2$ /NDF: 2.1/1

In: 0.209 $\pm$ 0.267  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.154 $\pm$ 0.264  $\chi^2$ /NDF: 2.1/1

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 206.283+/-0.189  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 488.953+/-1.293  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 212.173+/-0.187  $\chi^2/\text{NDF}$ : 46789.0/1

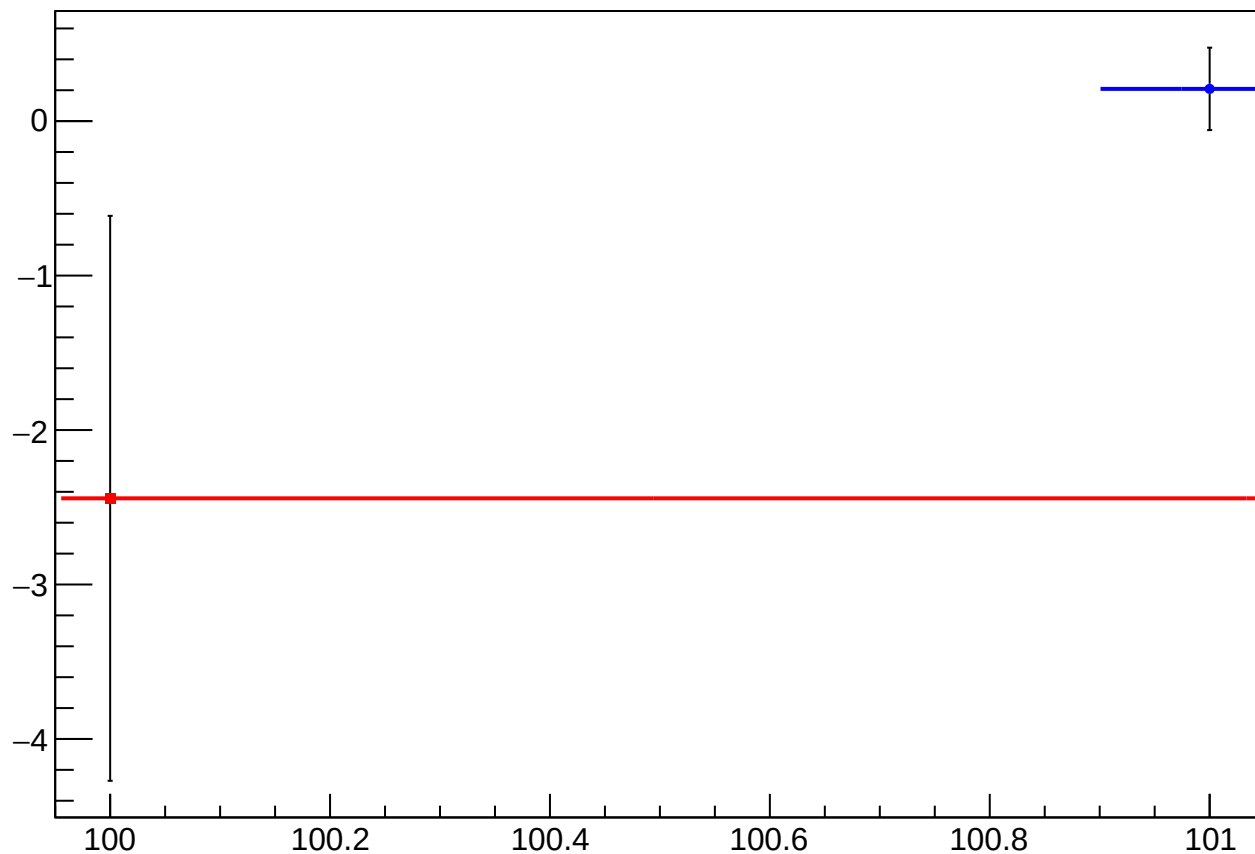
In: 206.283+/-0.189  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 212.173+/-0.187  $\chi^2/\text{NDF}$ : 46789.0/1



asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.209 $\pm$ 0.267  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.442 $\pm$ 1.829  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

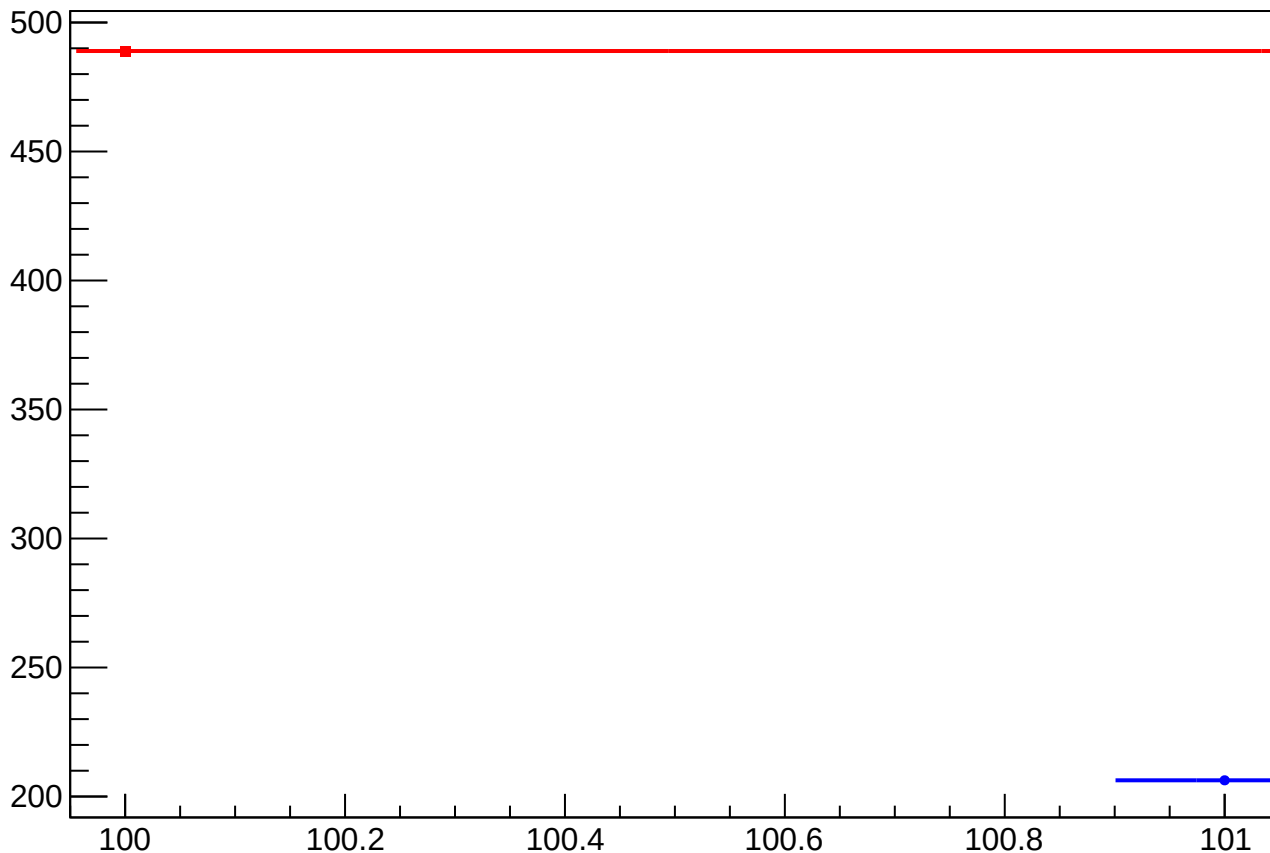
Right: 0.154 $\pm$ 0.264  $\chi^2/\text{NDF}$ : 2.1/1

In: 0.209 $\pm$ 0.267  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.154 $\pm$ 0.264  $\chi^2/\text{NDF}$ : 2.1/1

asym\_usr\_atr2\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 206.283+/-0.189  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 488.953+/-1.293  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

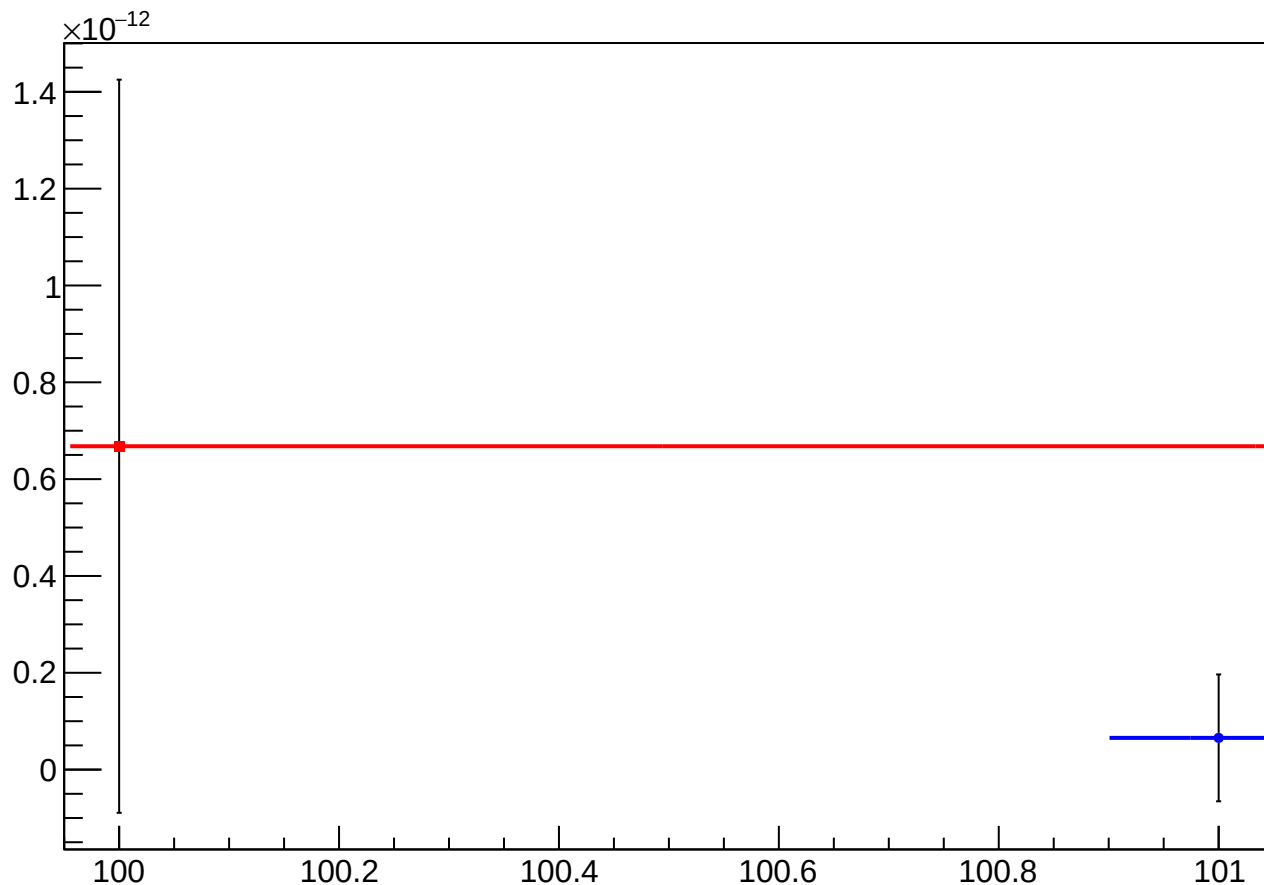
Right: 212.173+/-0.187  $\chi^2/\text{NDF}$ : 46789.0/1

In: 206.283+/-0.189  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 212.173+/-0.187  $\chi^2/\text{NDF}$ : 46789.0/1

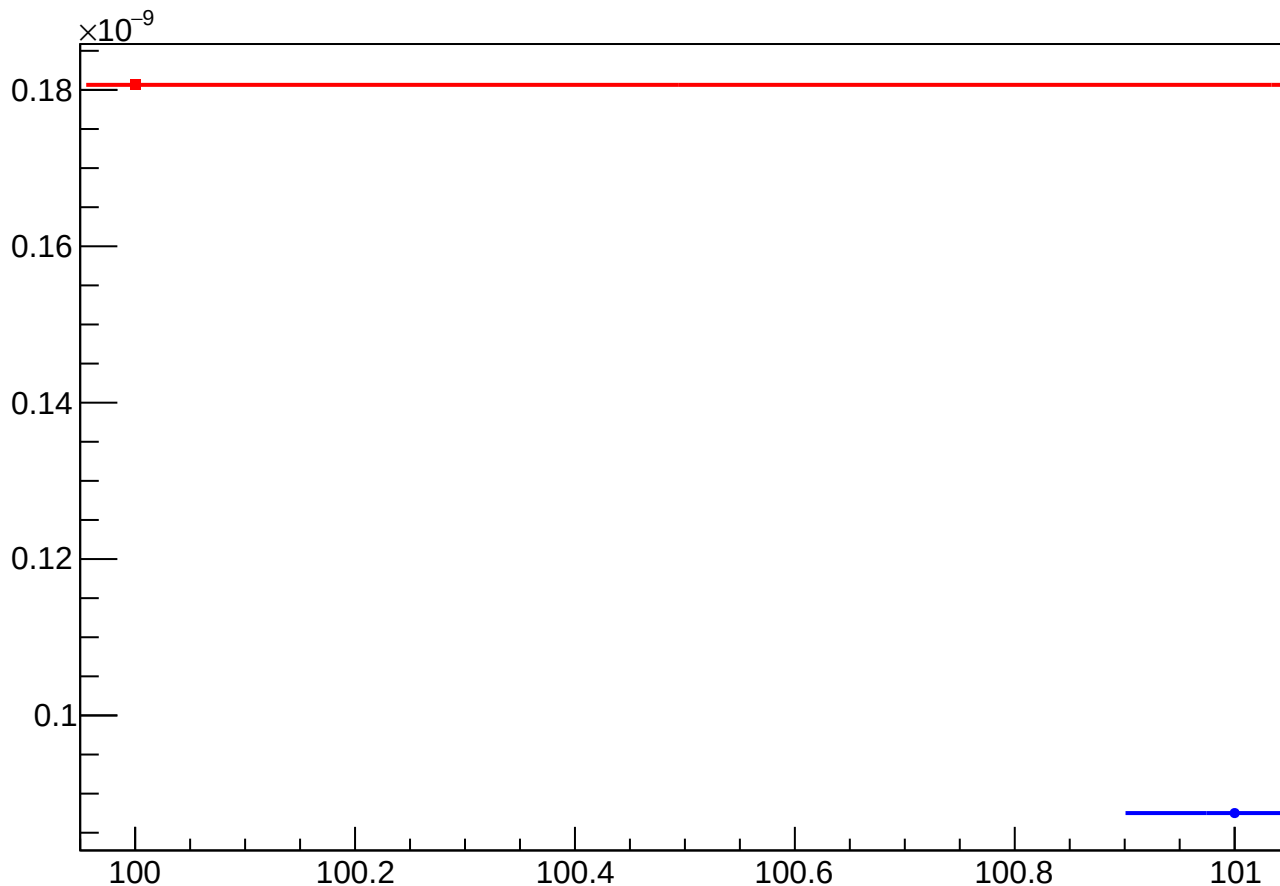
asym\_usr\_atr2\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1  
 In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_usr\_atr2\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

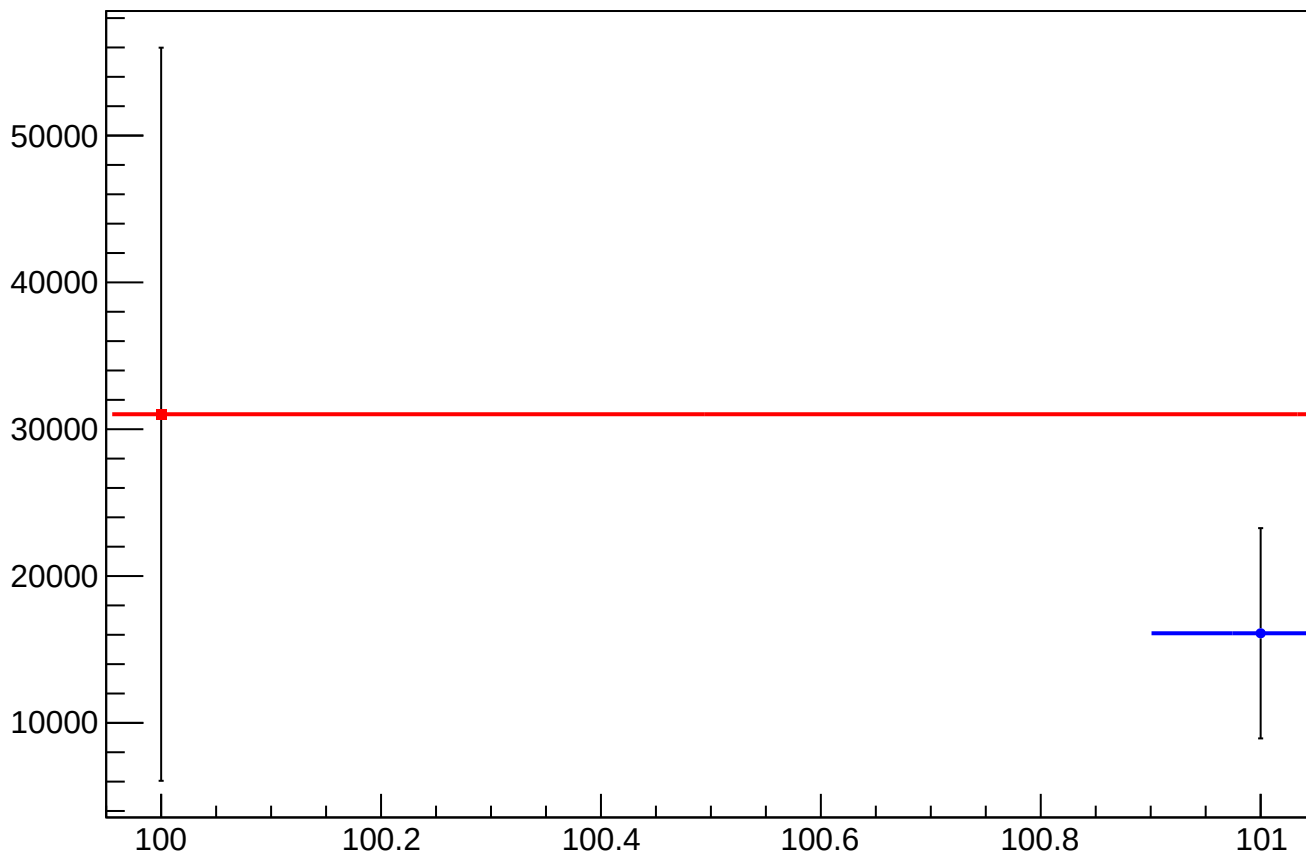
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29378.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29378.9/1

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 16103.078+/-7160.940  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31020.688+/-24965.167  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

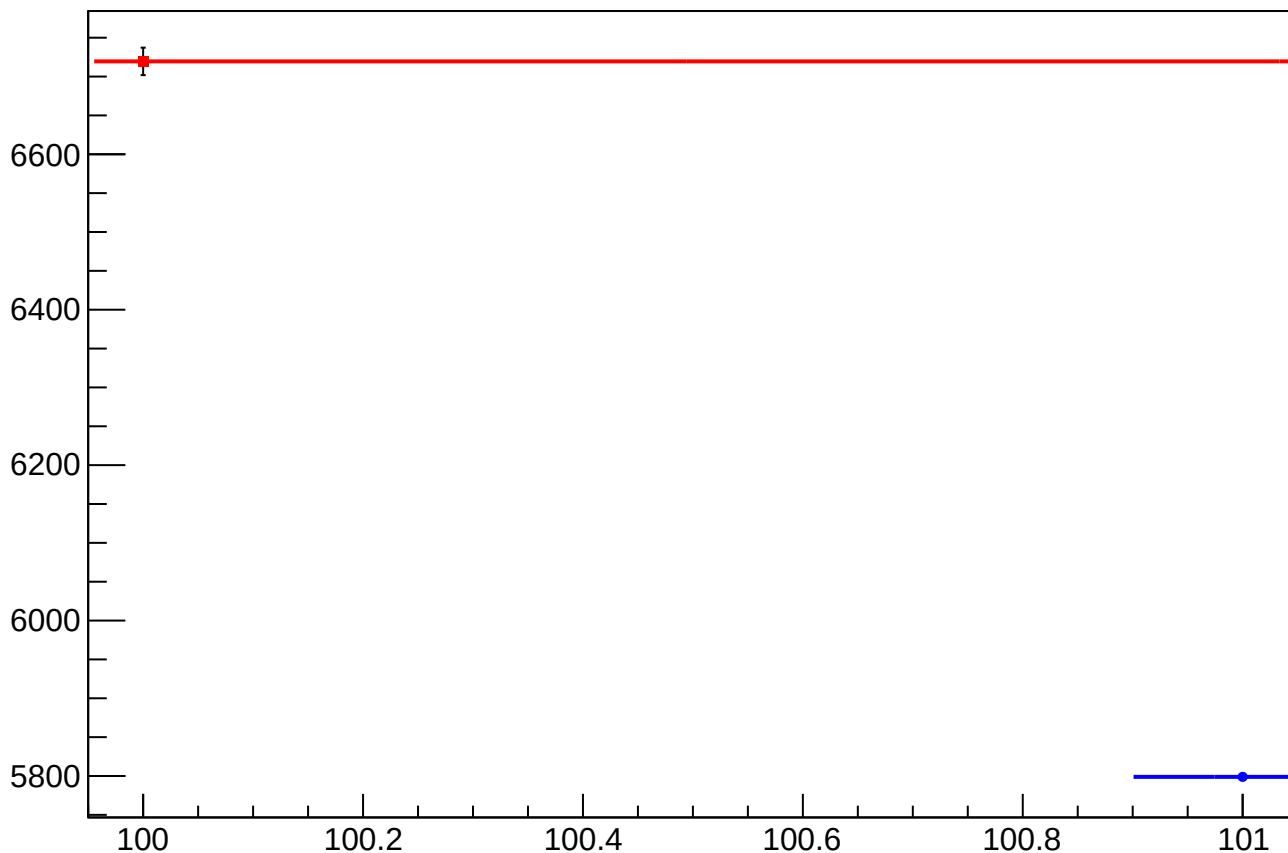
Right: 17237.129+/-6883.370  $\chi^2/\text{NDF}$ : 0.3/1

In: 16103.078+/-7160.940  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17237.129+/-6883.370  $\chi^2/\text{NDF}$ : 0.3/1

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 5798.889+/-5.064  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6719.514+/-17.653  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

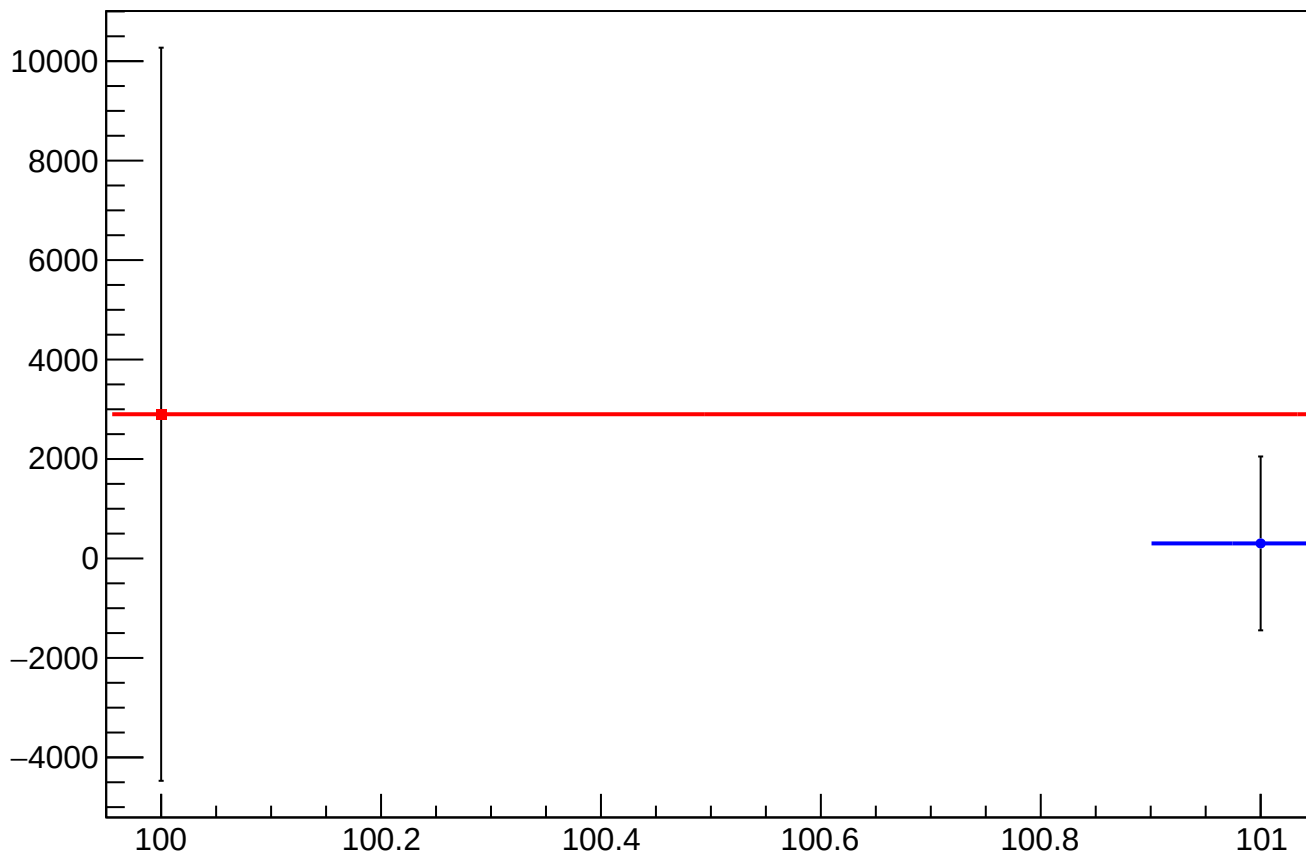
Right: 5868.876+/-4.867  $\chi^2/\text{NDF}$ : 2513.0/1

In: 5798.889+/-5.064  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5868.876+/-4.867  $\chi^2/\text{NDF}$ : 2513.0/1

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 302.827+/-1747.986  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2900.325+/-7370.879  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

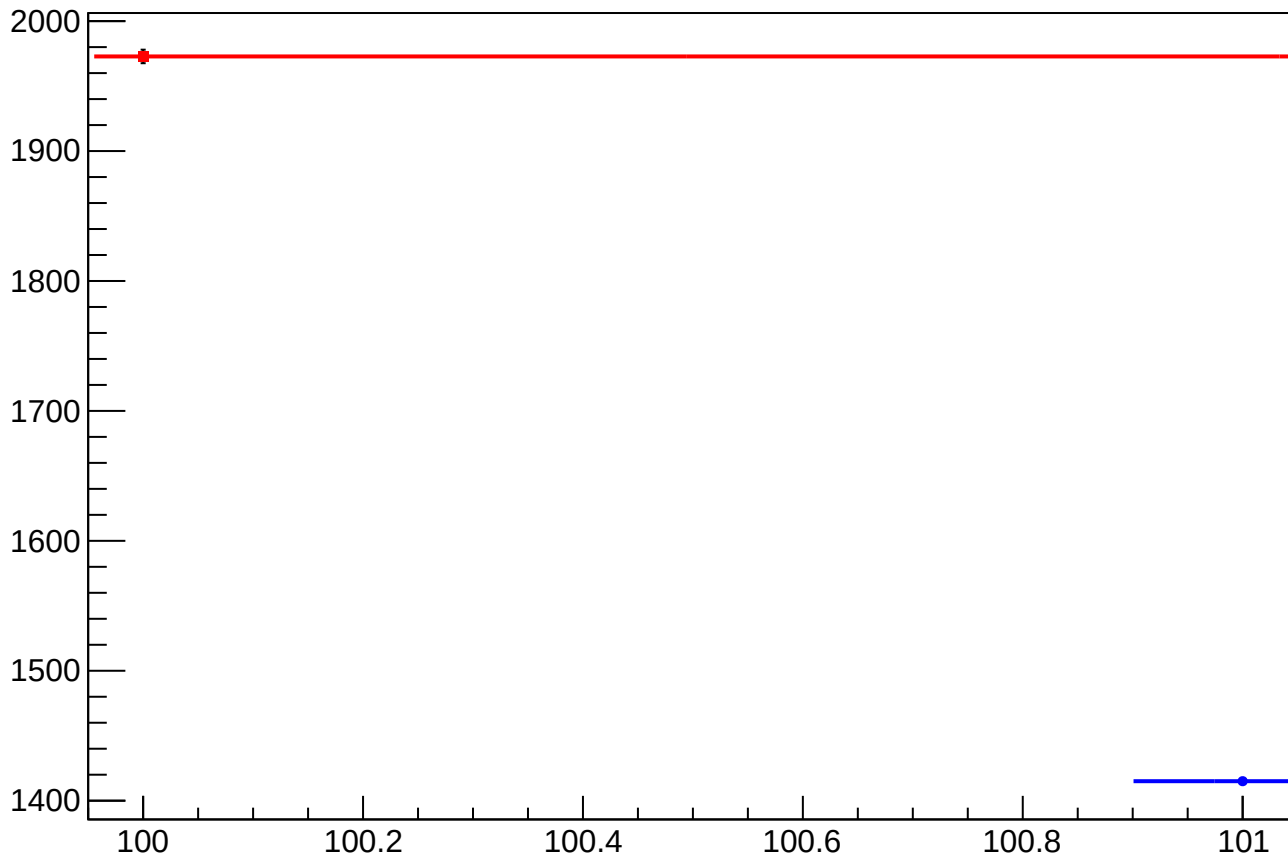
Right: 441.130+/-1700.814  $\chi^2/\text{NDF}$ : 0.1/1

In: 302.827+/-1747.986  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 441.130+/-1700.814  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1415.009+/-1.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1972.818+/-5.212  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1444.709+/-1.203  $\chi^2/\text{NDF}$ : 10844.3/1

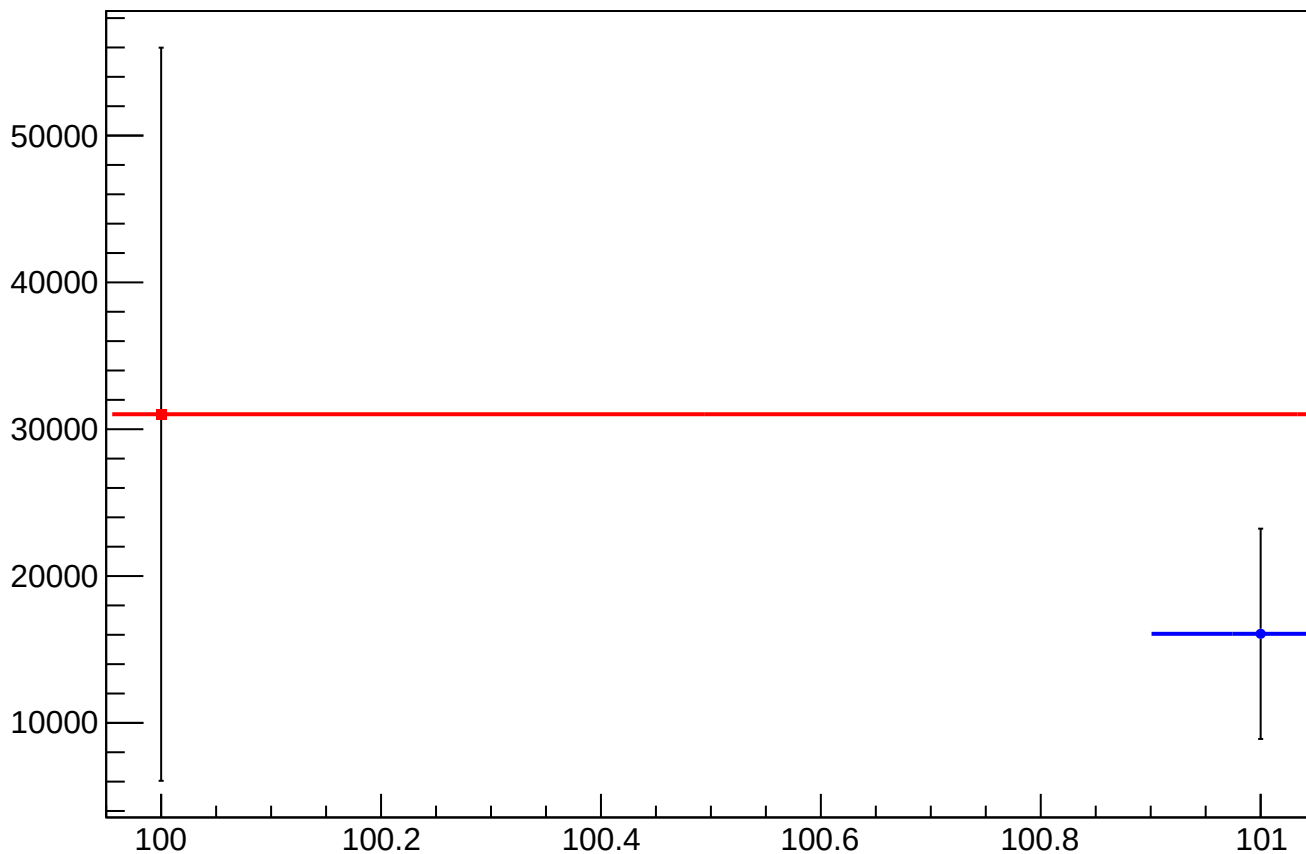
In: 1415.009+/-1.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1444.709+/-1.203  $\chi^2/\text{NDF}$ : 10844.3/1



cor\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 16066.394+/-7160.970  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31021.036+/-24965.167  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

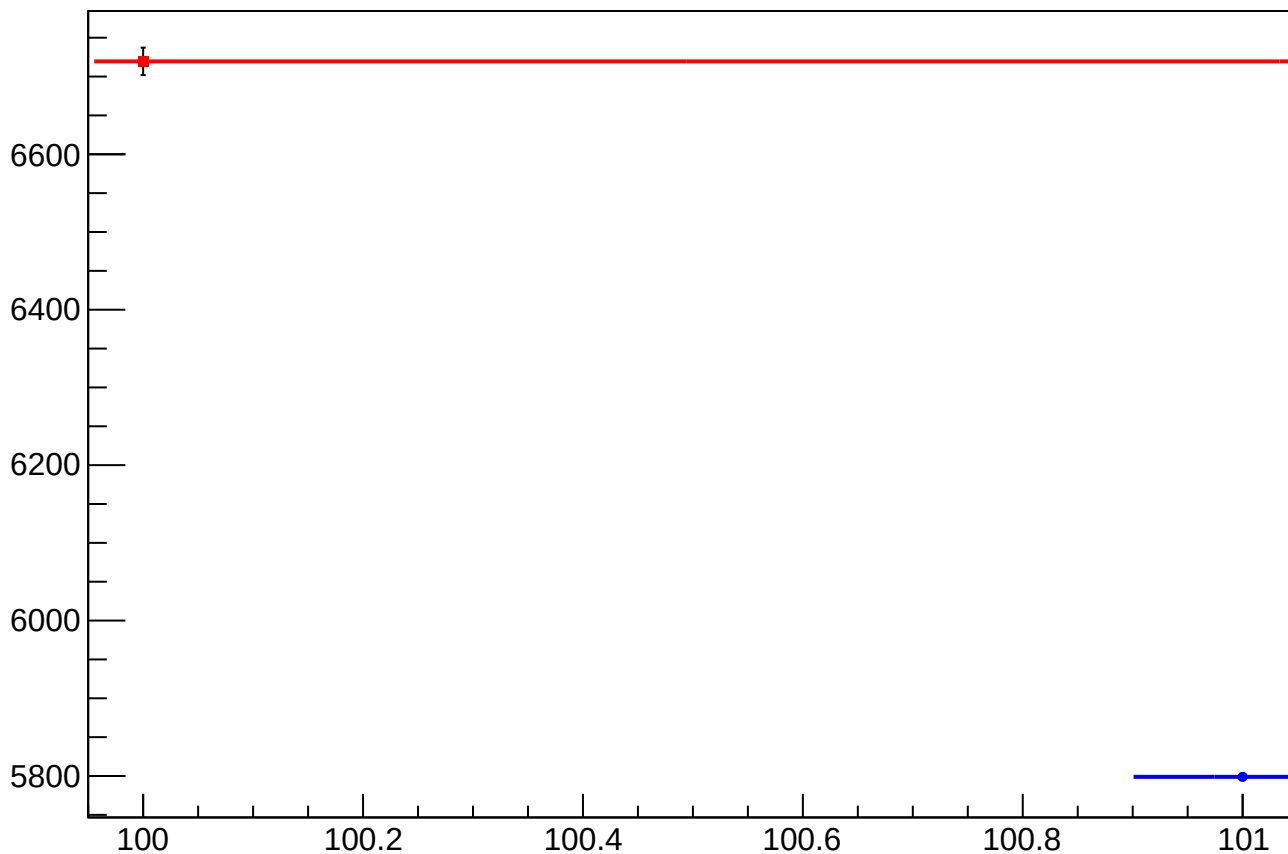
Right: 17203.269+/-6883.397  $\chi^2/\text{NDF}$ : 0.3/1

In: 16066.394+/-7160.970  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17203.269+/-6883.397  $\chi^2/\text{NDF}$ : 0.3/1

cor\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 5798.906 $\pm$ 5.064  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6719.514 $\pm$ 17.653  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

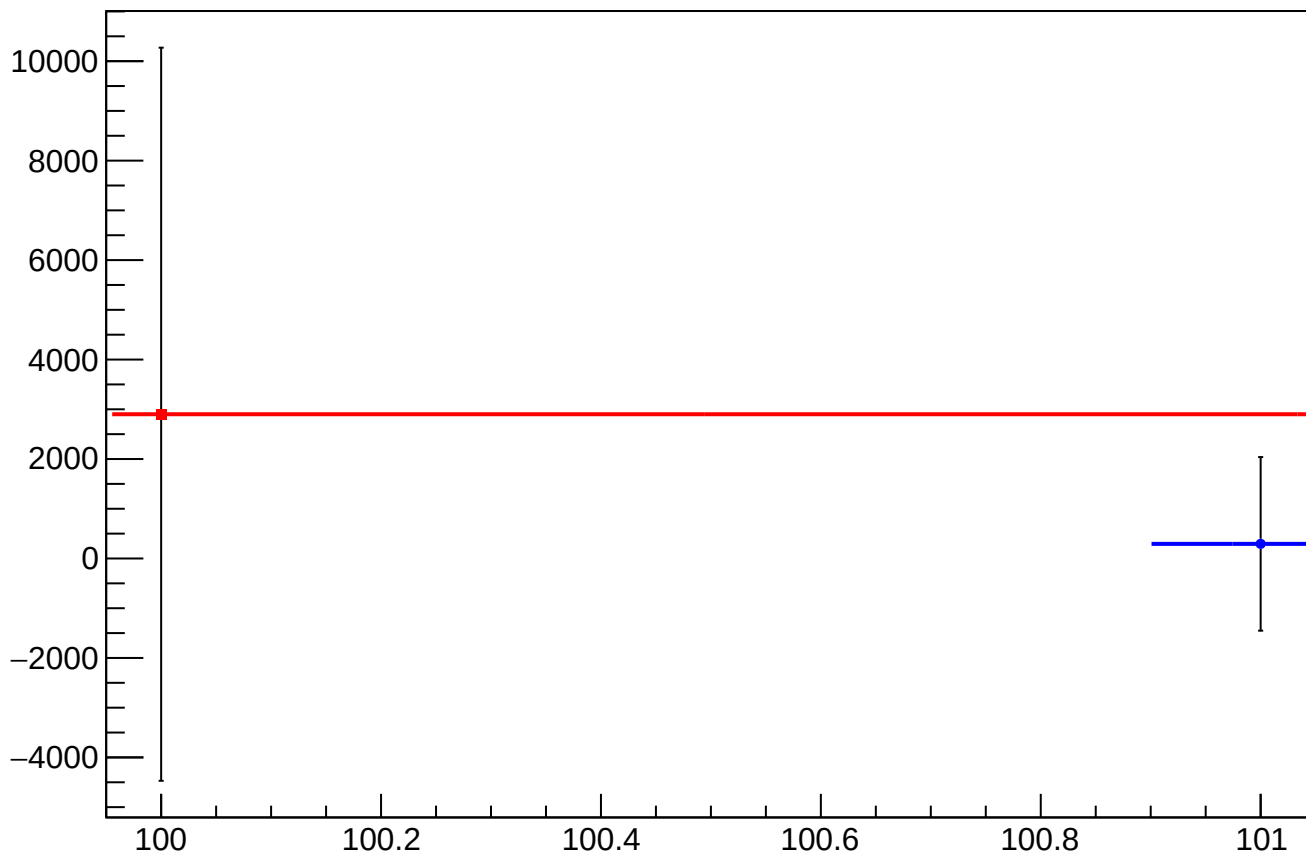
Right: 5868.892 $\pm$ 4.867  $\chi^2$ /NDF: 2512.9/1

In: 5798.906 $\pm$ 5.064  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5868.892 $\pm$ 4.867  $\chi^2$ /NDF: 2512.9/1

asym\_us\_avg\_at1lr\_avg\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 293.829+/-1745.413  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2900.636+/-7370.864  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

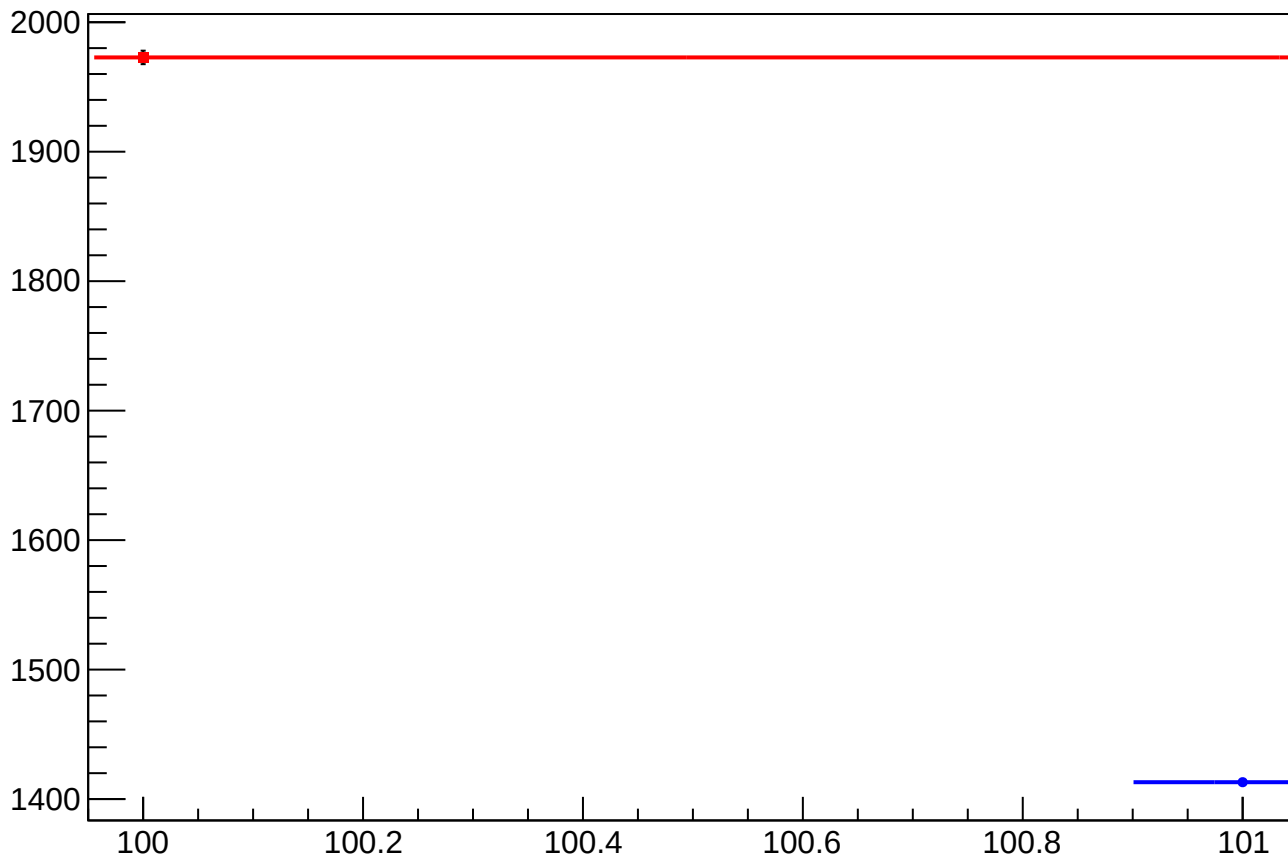
Right: 432.241+/-1698.443  $\chi^2/\text{NDF}$ : 0.1/1

In: 293.829+/-1745.413  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 432.241+/-1698.443  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_avg\_at1lr\_avg\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1413.027 $\pm$ 1.234  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.815 $\pm$ 5.212  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

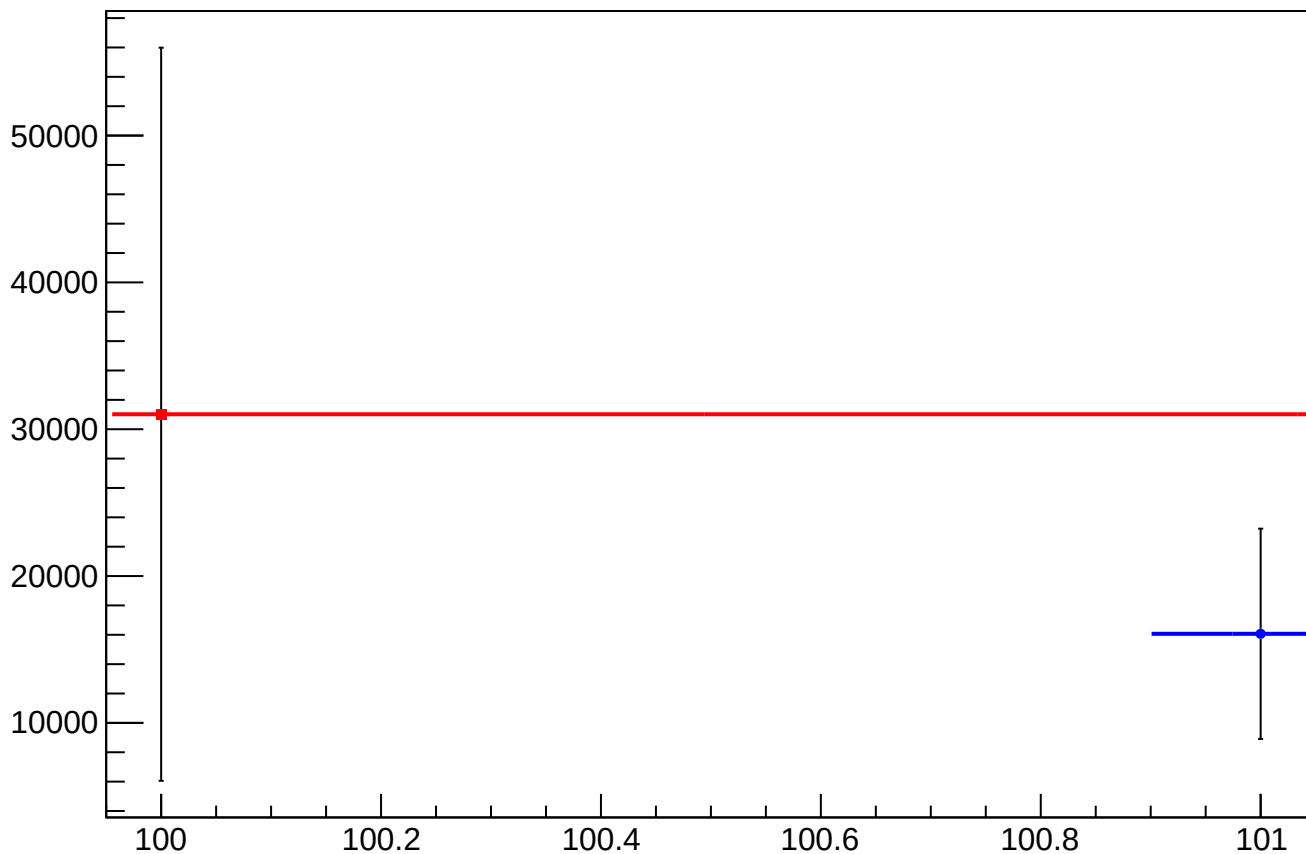
Right: 1442.750 $\pm$ 1.201  $\chi^2$ /NDF: 10923.1/1

In: 1413.027 $\pm$ 1.234  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1442.750 $\pm$ 1.201  $\chi^2$ /NDF: 10923.1/1

eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 16066.394 $\pm$ 7160.970  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 31021.036 $\pm$ 24965.167  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

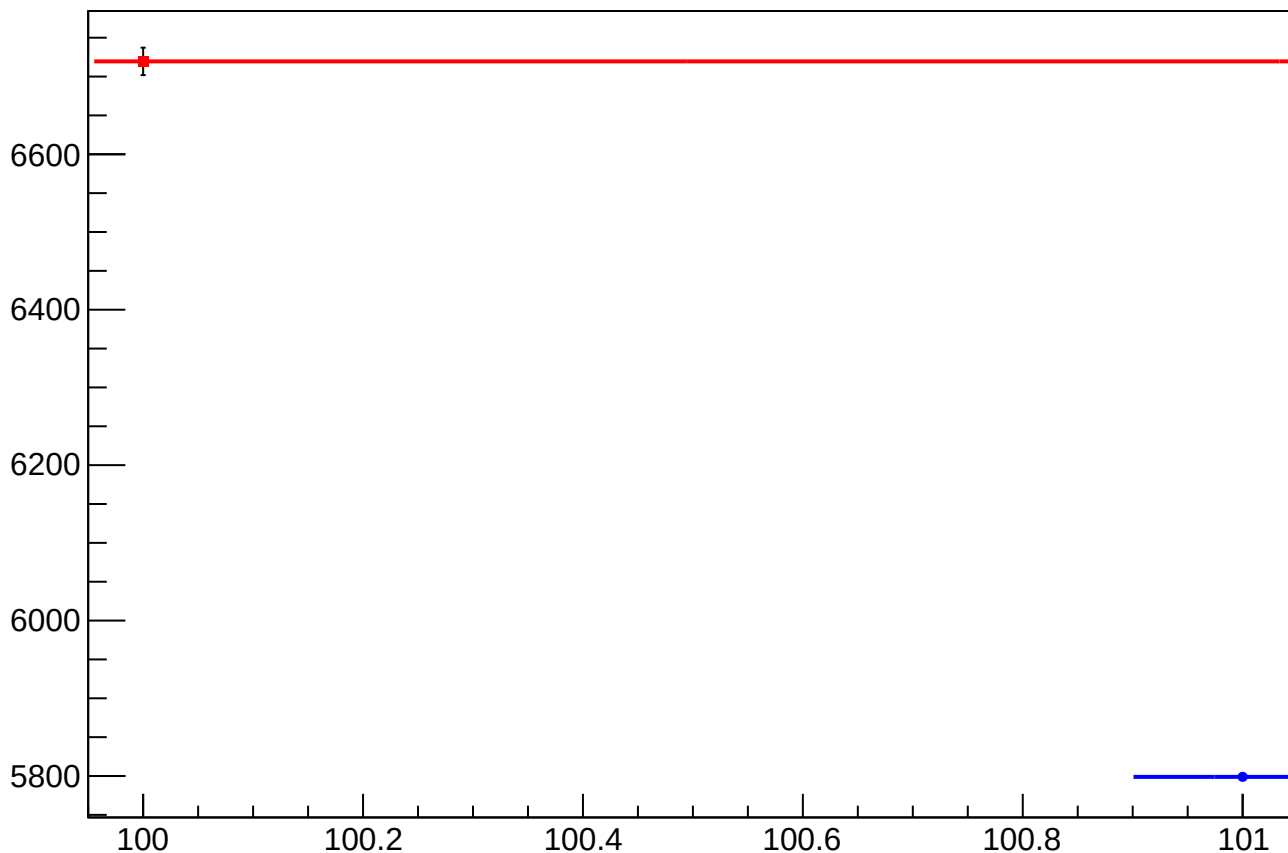
Right: 17203.269 $\pm$ 6883.397  $\chi^2$ /NDF: 0.3/1

In: 16066.394 $\pm$ 7160.970  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 17203.269 $\pm$ 6883.397  $\chi^2$ /NDF: 0.3/1

eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 5798.906 $\pm$ 5.064  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6719.514 $\pm$ 17.653  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

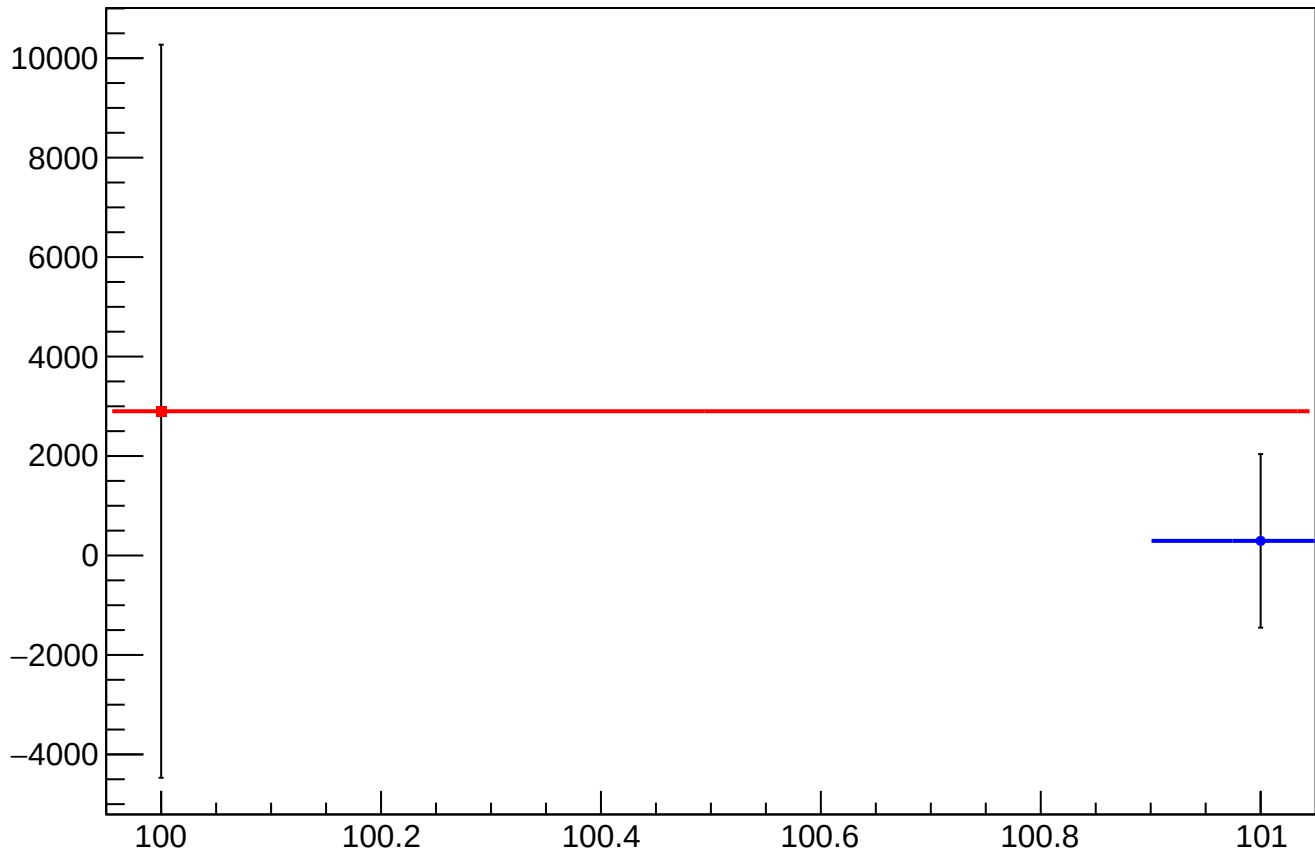
Right: 5868.892 $\pm$ 4.867  $\chi^2$ /NDF: 2512.9/1

In: 5798.906 $\pm$ 5.064  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5868.892 $\pm$ 4.867  $\chi^2$ /NDF: 2512.9/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 293.829+/-1745.413  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2900.636+/-7370.864  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

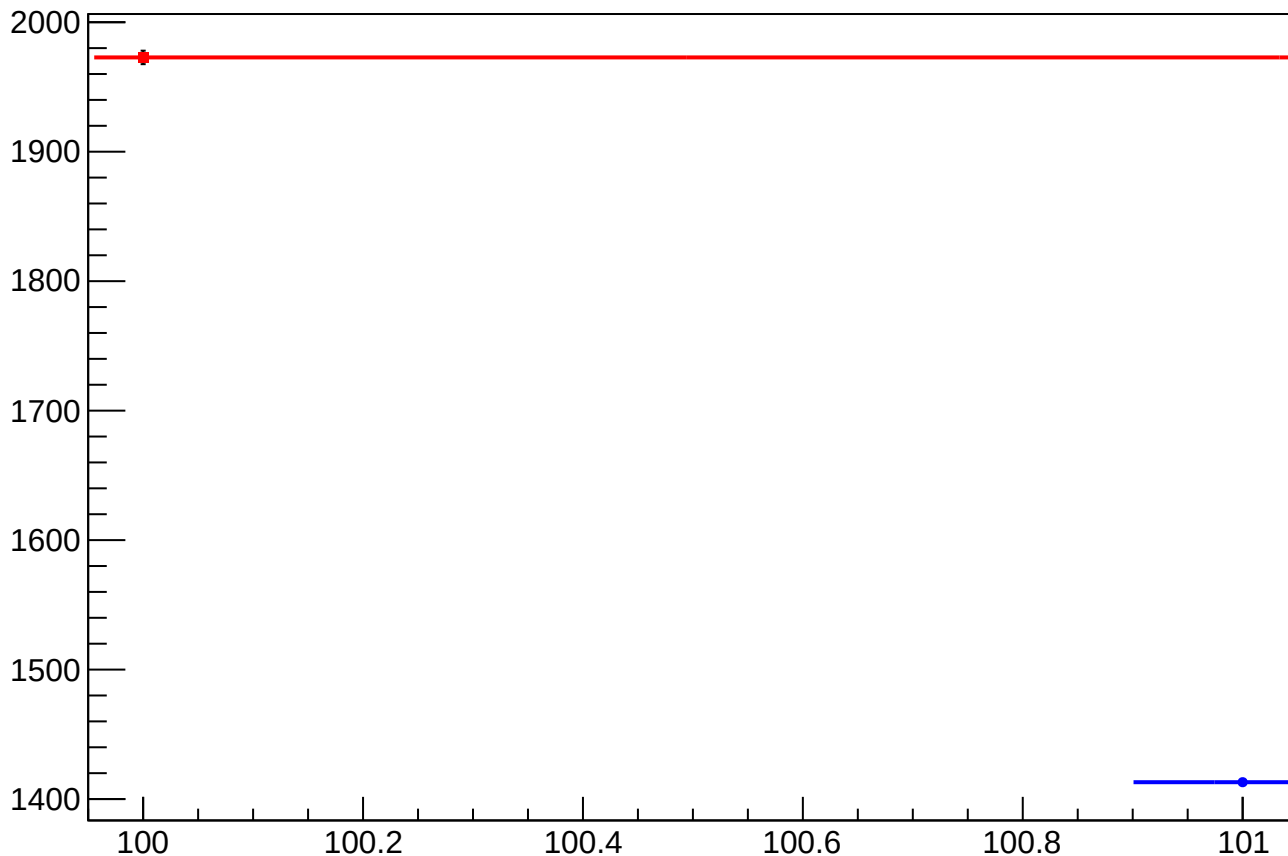
Right: 432.241+/-1698.443  $\chi^2/\text{NDF}$ : 0.1/1

In: 293.829+/-1745.413  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 432.241+/-1698.443  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1413.027 $\pm$ 1.234  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1972.815 $\pm$ 5.212  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1442.750 $\pm$ 1.201  $\chi^2$ /NDF: 10923.1/1

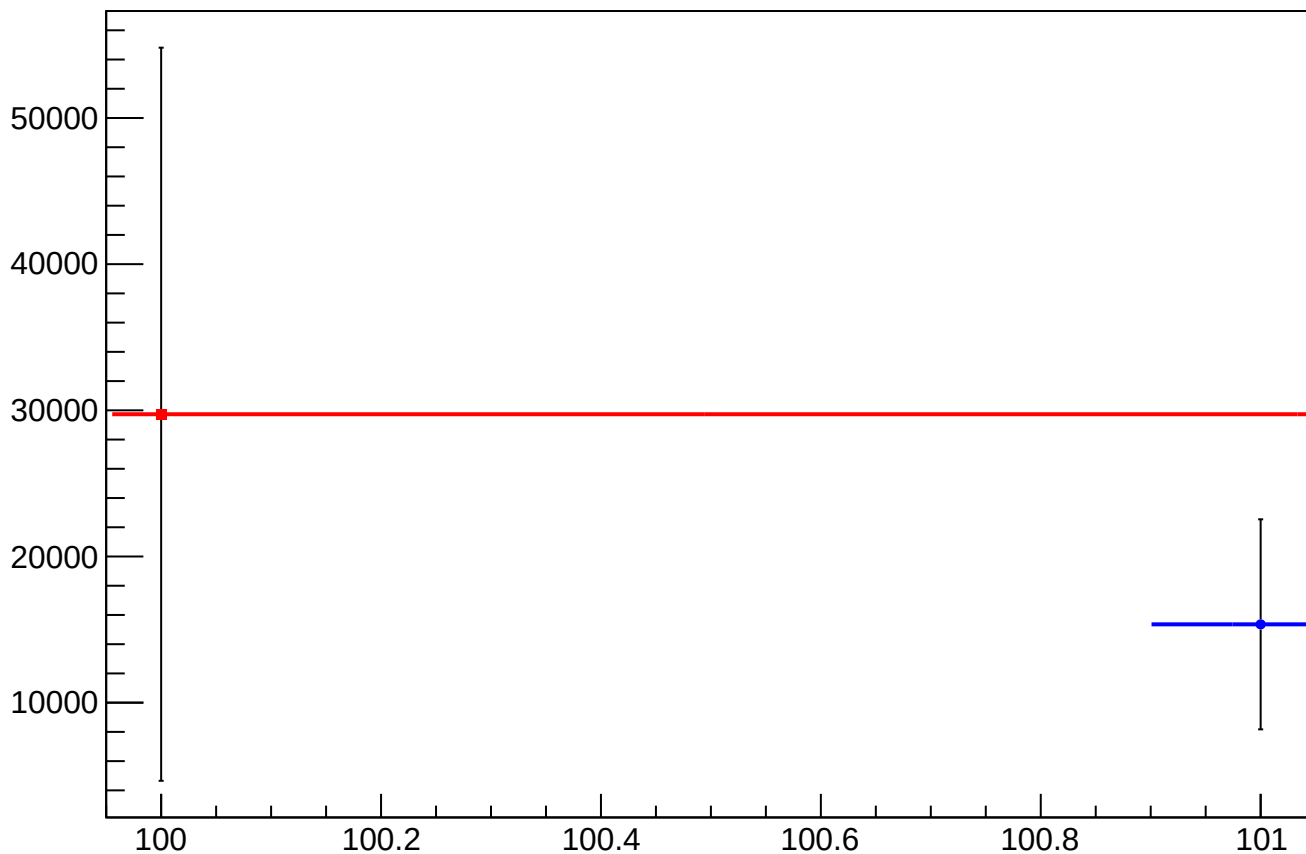
In: 1413.027 $\pm$ 1.234  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1442.750 $\pm$ 1.201  $\chi^2$ /NDF: 10923.1/1



dit\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 15358.570+/-7185.356  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29732.633+/-25078.454  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

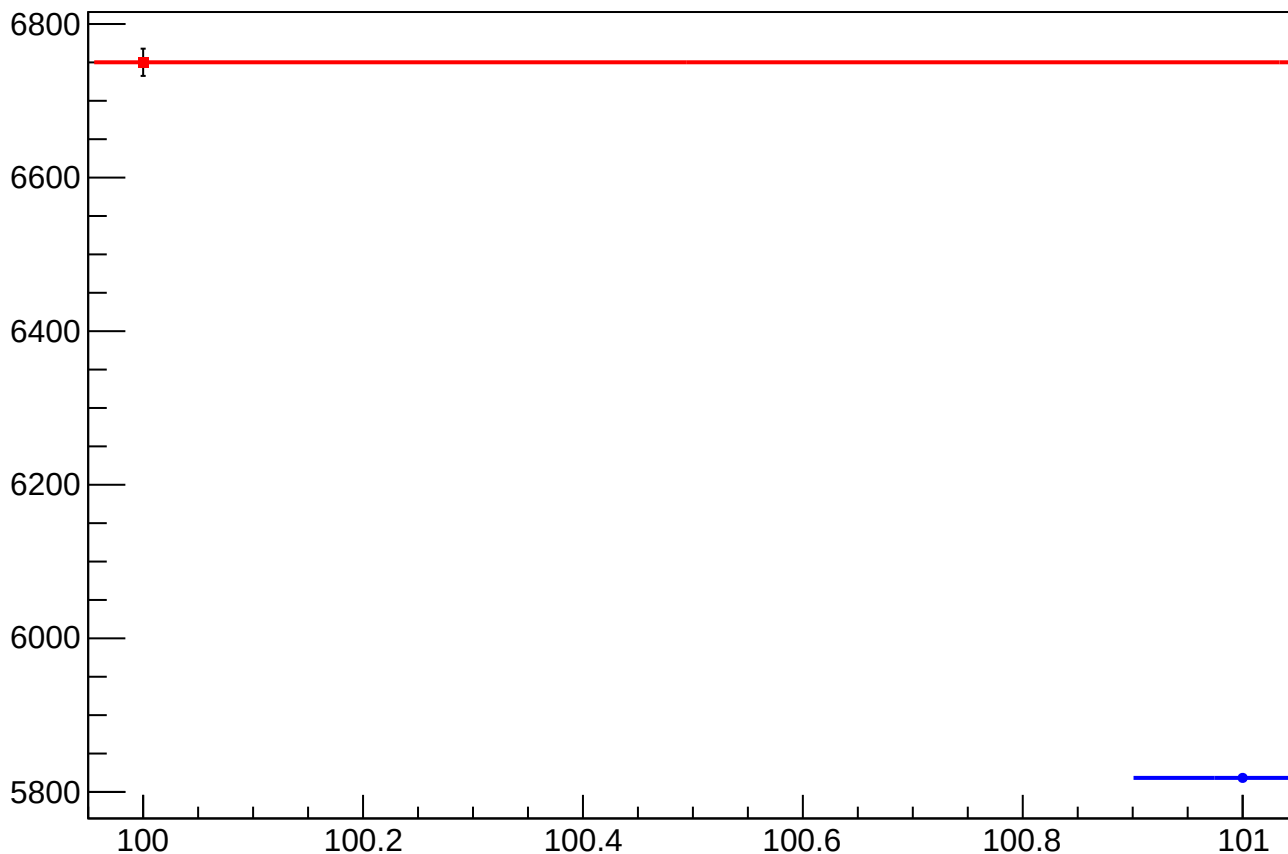
Right: 16449.033+/-6907.428  $\chi^2/\text{NDF}$ : 0.3/1

In: 15358.570+/-7185.356  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16449.033+/-6907.428  $\chi^2/\text{NDF}$ : 0.3/1

dit\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 5818.284+/-5.081  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6750.151+/-17.733  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

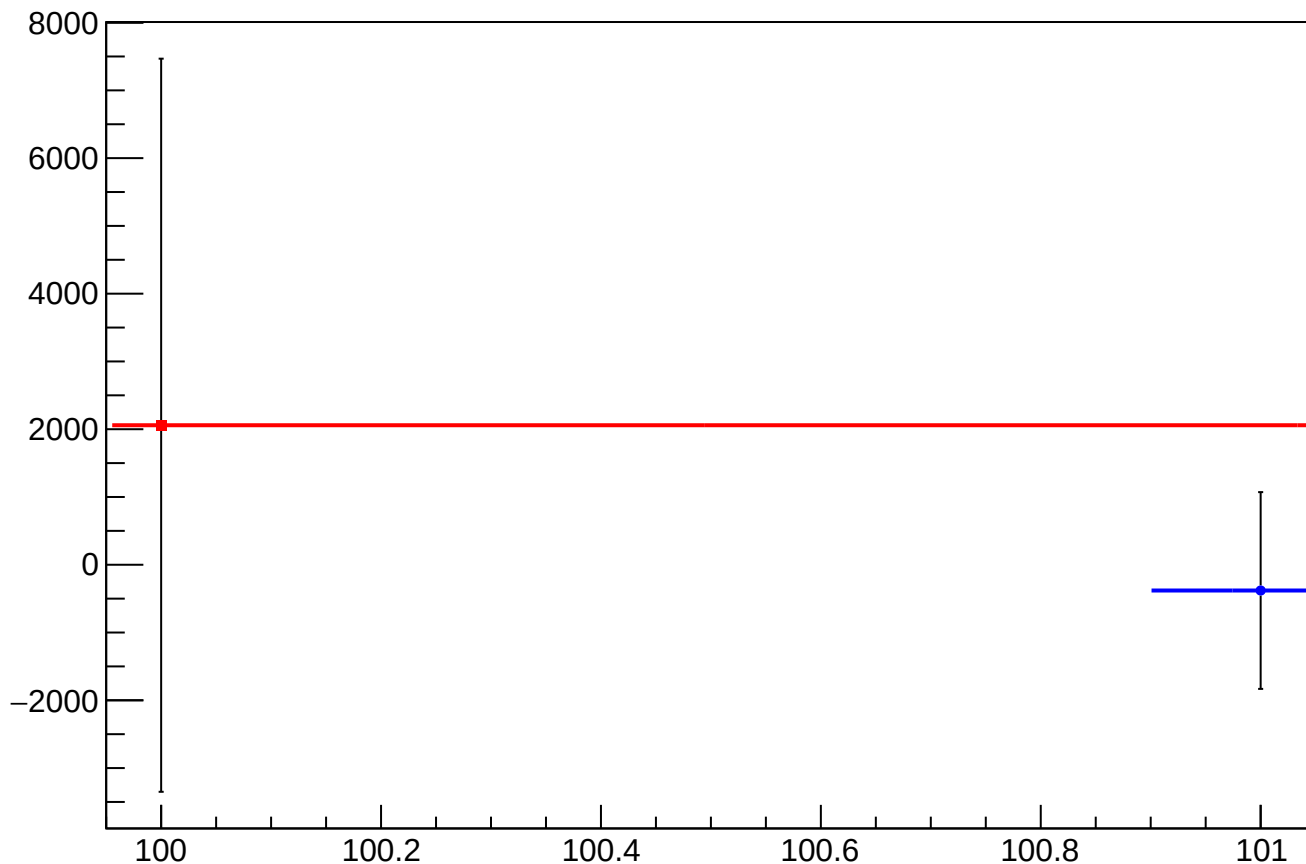
Right: 5888.978+/-4.884  $\chi^2/\text{NDF}$ : 2552.0/1

In: 5818.284+/-5.081  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5888.978+/-4.884  $\chi^2/\text{NDF}$ : 2552.0/1

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -380.017+/-1451.767  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2058.717+/-5408.928  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

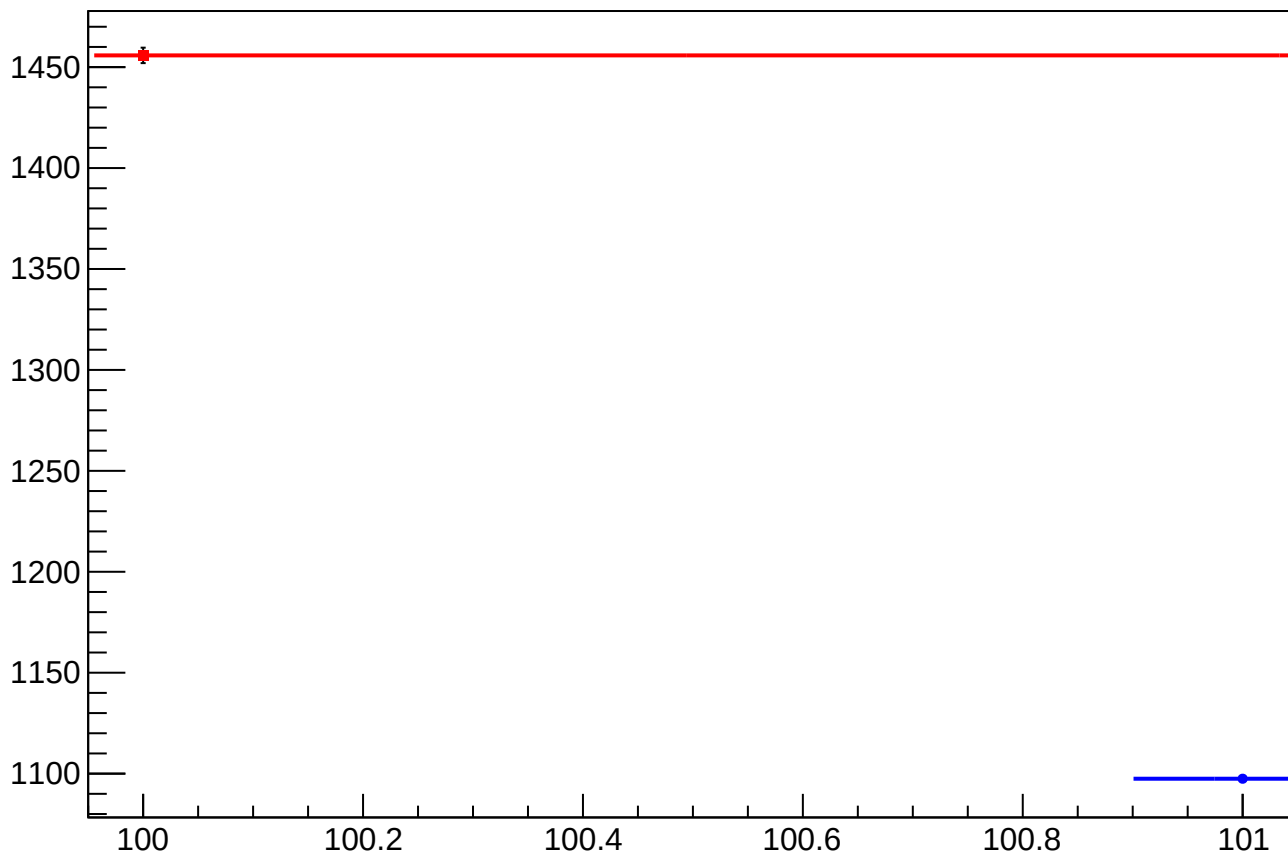
Right: -216.137+/-1402.141  $\chi^2/\text{NDF}$ : 0.2/1

In: -380.017+/-1451.767  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -216.137+/-1402.141  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1097.480 $\pm$ 1.027  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1455.813 $\pm$ 3.825  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

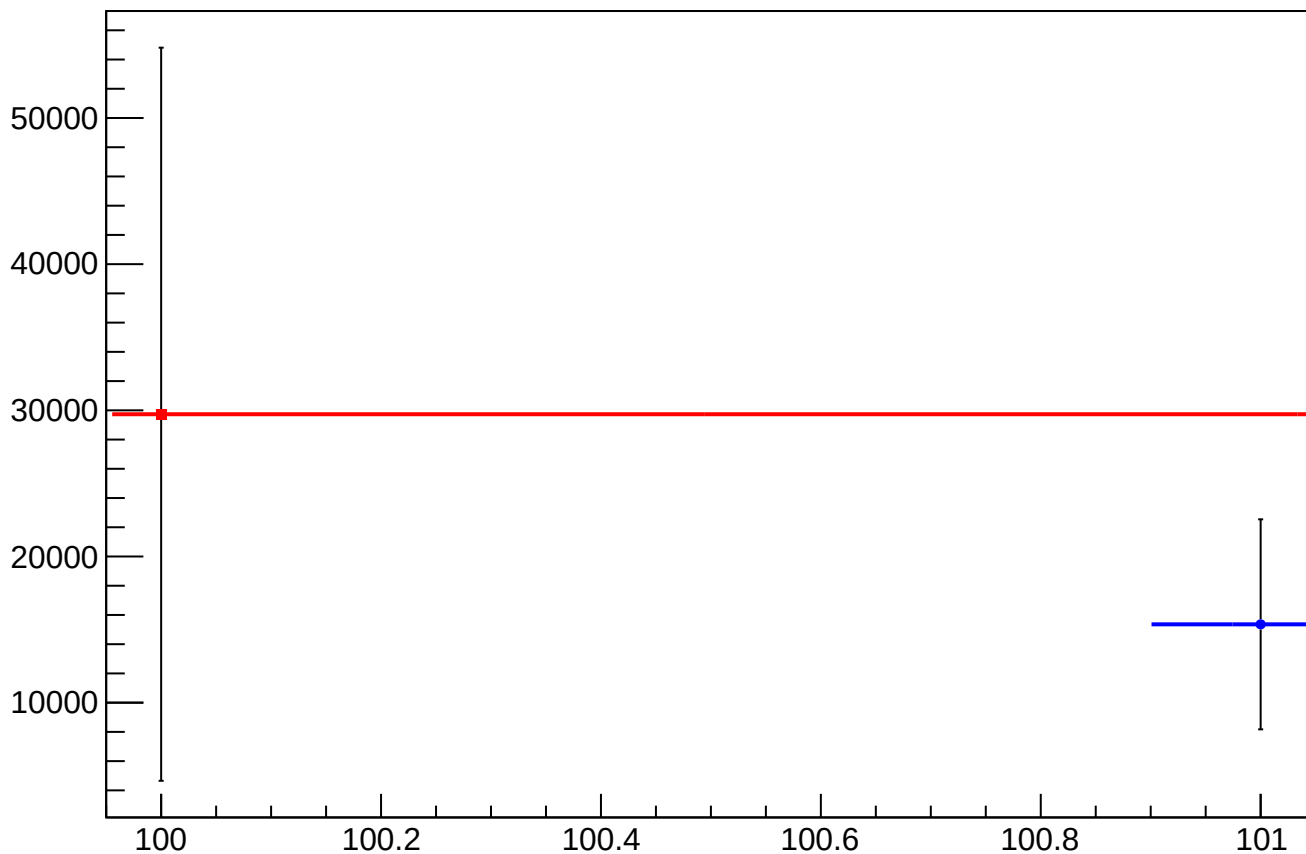
Right: 1121.559 $\pm$ 0.991  $\chi^2/\text{NDF}$ : 8187.9/1

In: 1097.480 $\pm$ 1.027  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1121.559 $\pm$ 0.991  $\chi^2/\text{NDF}$ : 8187.9/1

eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 15358.566+/-7185.356  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29732.634+/-25078.455  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

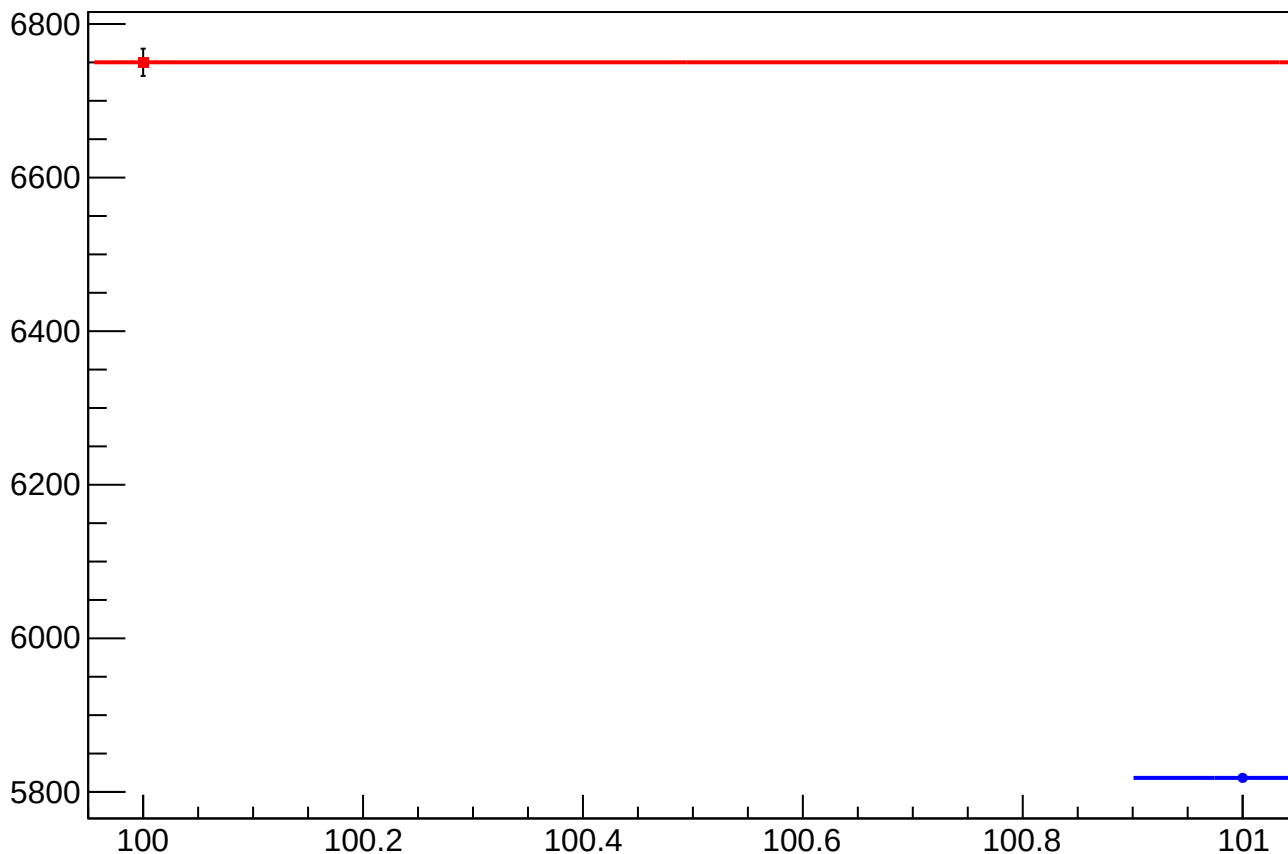
Right: 16449.029+/-6907.429  $\chi^2/\text{NDF}$ : 0.3/1

In: 15358.566+/-7185.356  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16449.029+/-6907.429  $\chi^2/\text{NDF}$ : 0.3/1

eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 5818.284+/-5.081  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6750.151+/-17.733  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

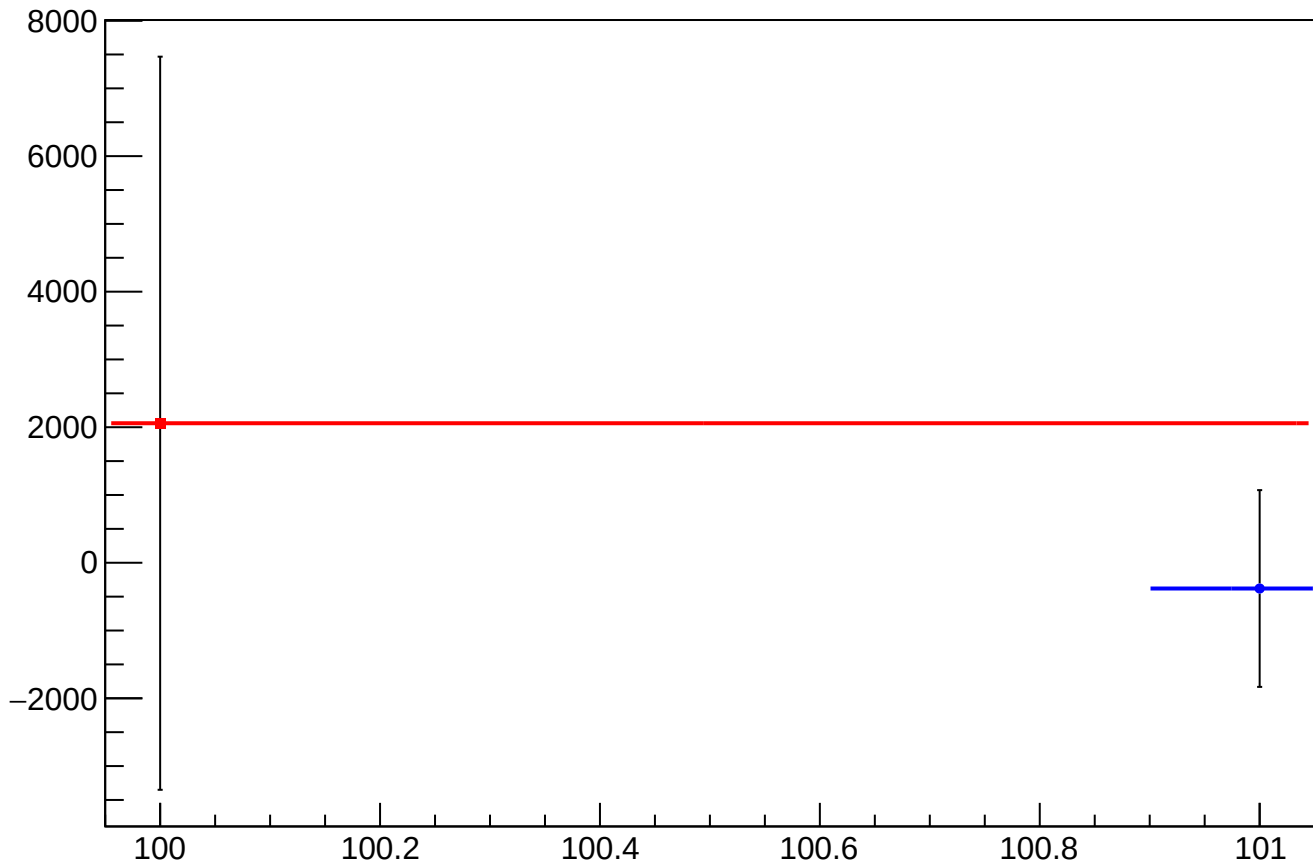
Right: 5888.978+/-4.884  $\chi^2/\text{NDF}$ : 2552.0/1

In: 5818.284+/-5.081  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5888.978+/-4.884  $\chi^2/\text{NDF}$ : 2552.0/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -380.032+/-1451.770  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2058.718+/-5408.918  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

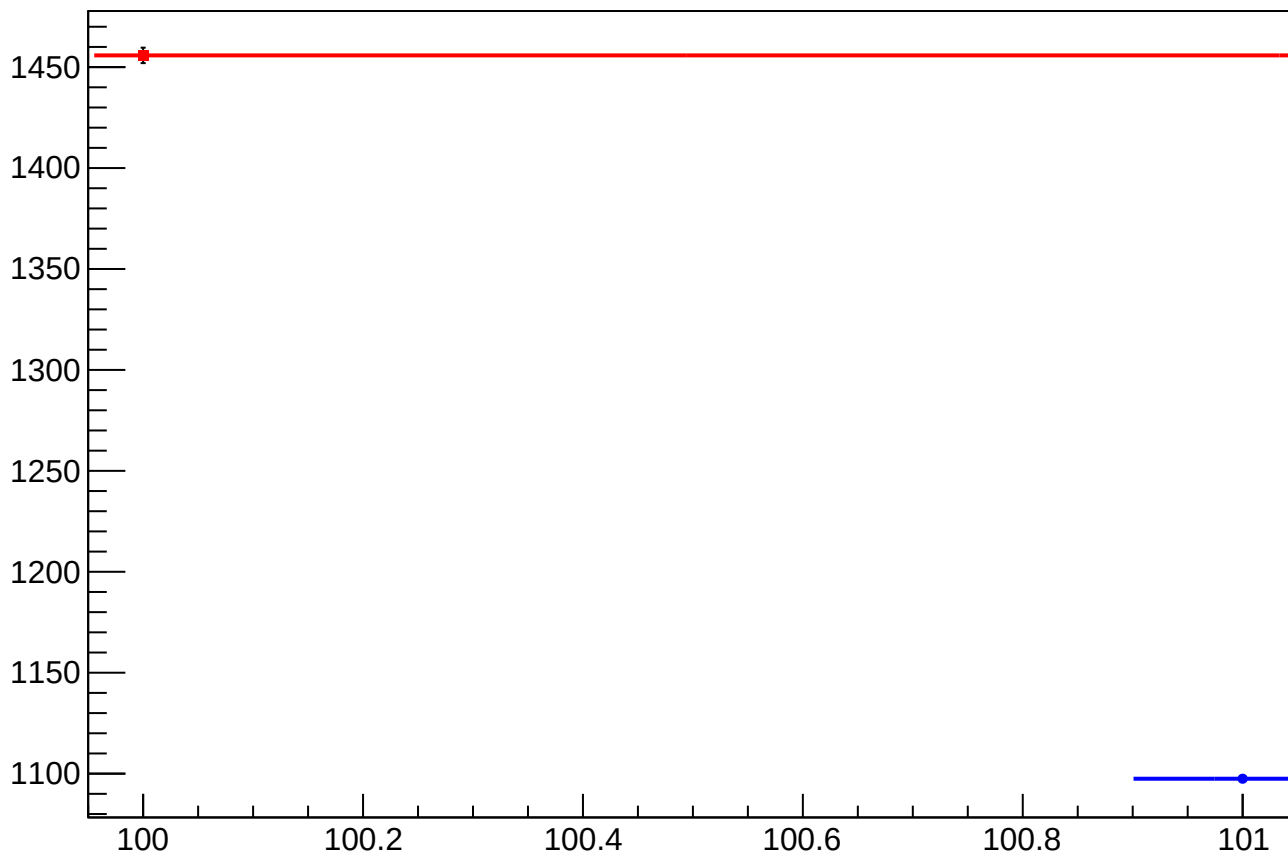
Right: -216.150+/-1402.143  $\chi^2/\text{NDF}$ : 0.2/1

In: -380.032+/-1451.770  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -216.150+/-1402.143  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1097.484+/-1.027  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1455.810+/-3.825  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1121.563+/-0.991  $\chi^2/\text{NDF}$ : 8187.6/1

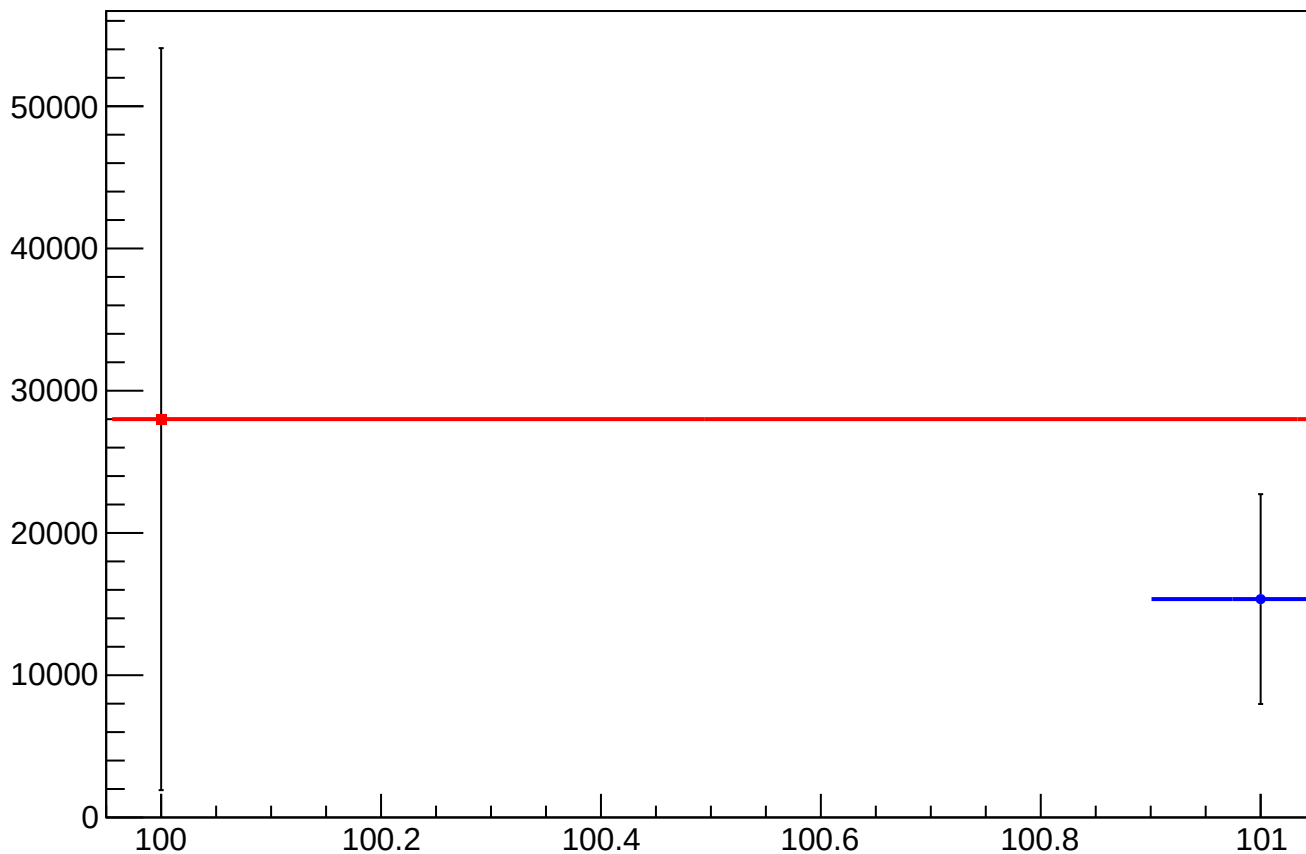
In: 1097.484+/-1.027  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1121.563+/-0.991  $\chi^2/\text{NDF}$ : 8187.6/1



asym\_us\_avg\_at1lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 15351.958+/-7375.851  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28003.176+/-26082.689  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

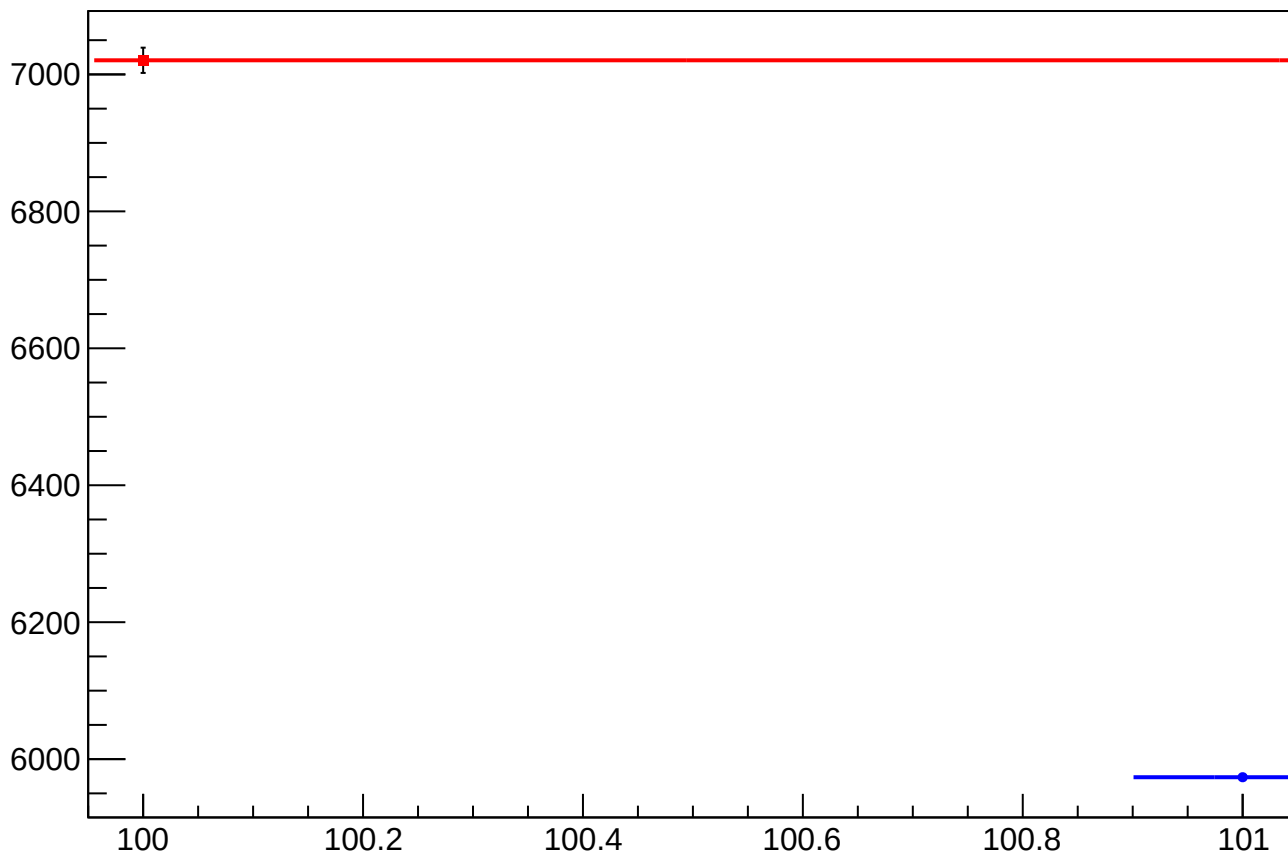
Right: 16288.744+/-7097.519  $\chi^2/\text{NDF}$ : 0.2/1

In: 15351.958+/-7375.851  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16288.744+/-7097.519  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_avg\_at1lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 5973.585 $\pm$ 5.216  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7020.615 $\pm$ 18.443  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

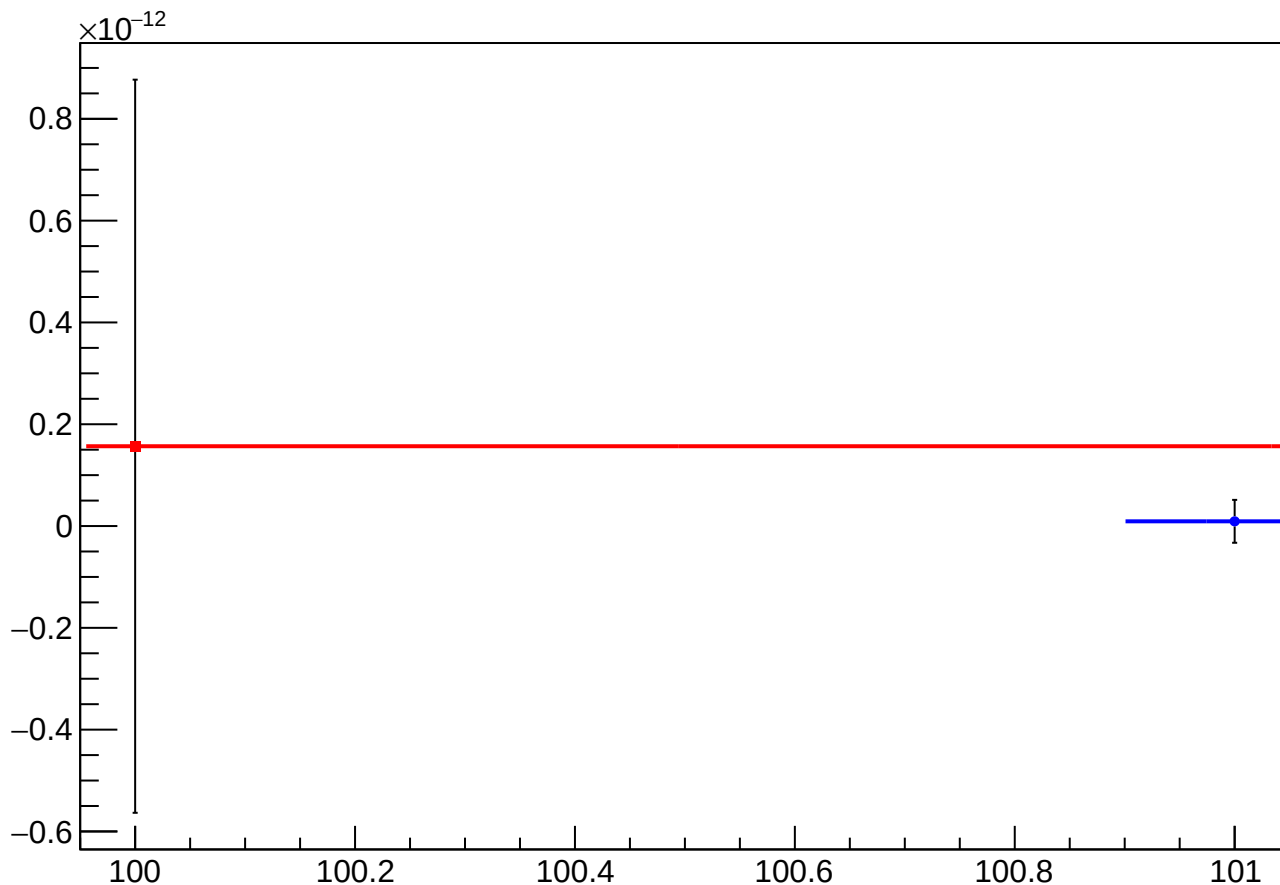
Right: 6051.114 $\pm$ 5.019  $\chi^2/\text{NDF}$ : 2984.2/1

In: 5973.585 $\pm$ 5.216  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6051.114 $\pm$ 5.019  $\chi^2/\text{NDF}$ : 2984.2/1

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

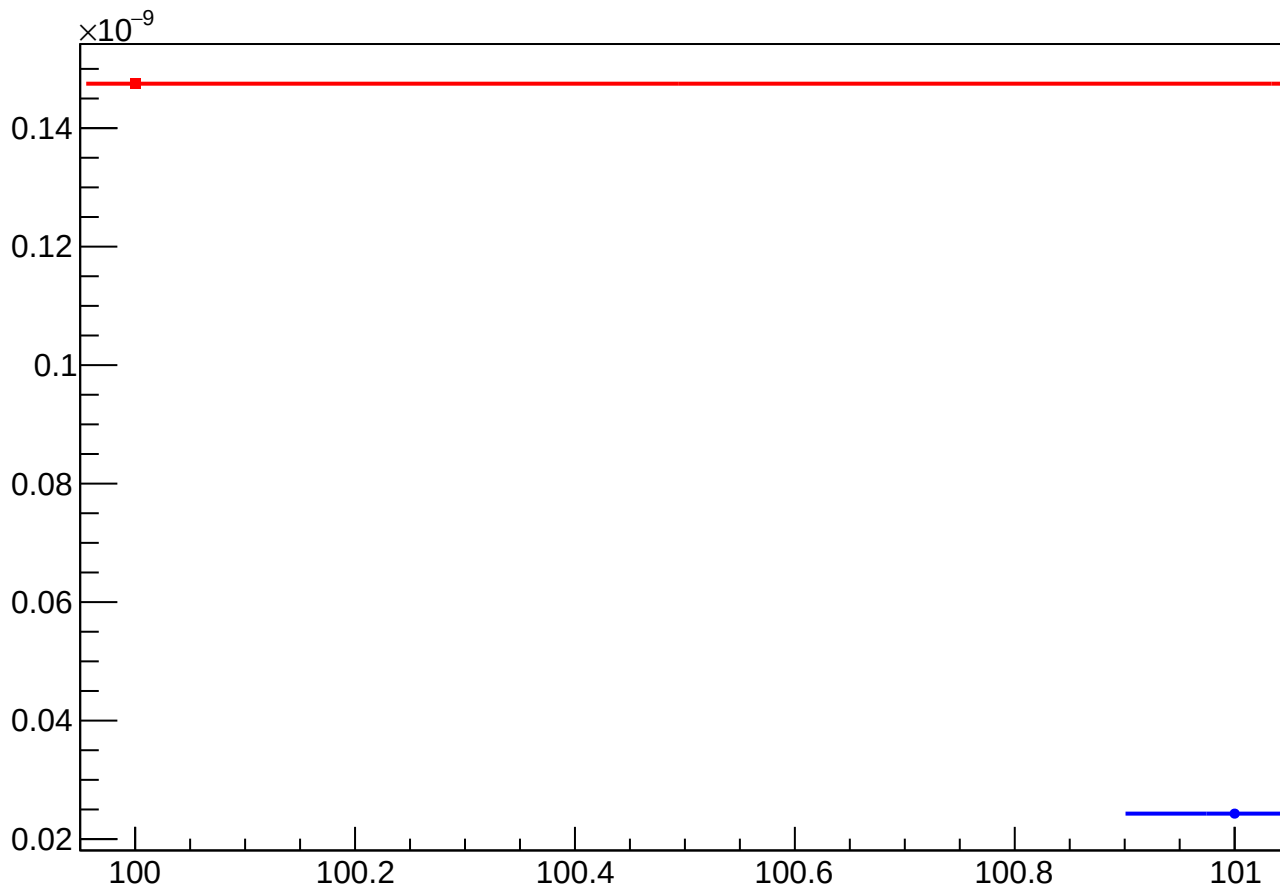
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_avg\_at1lr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

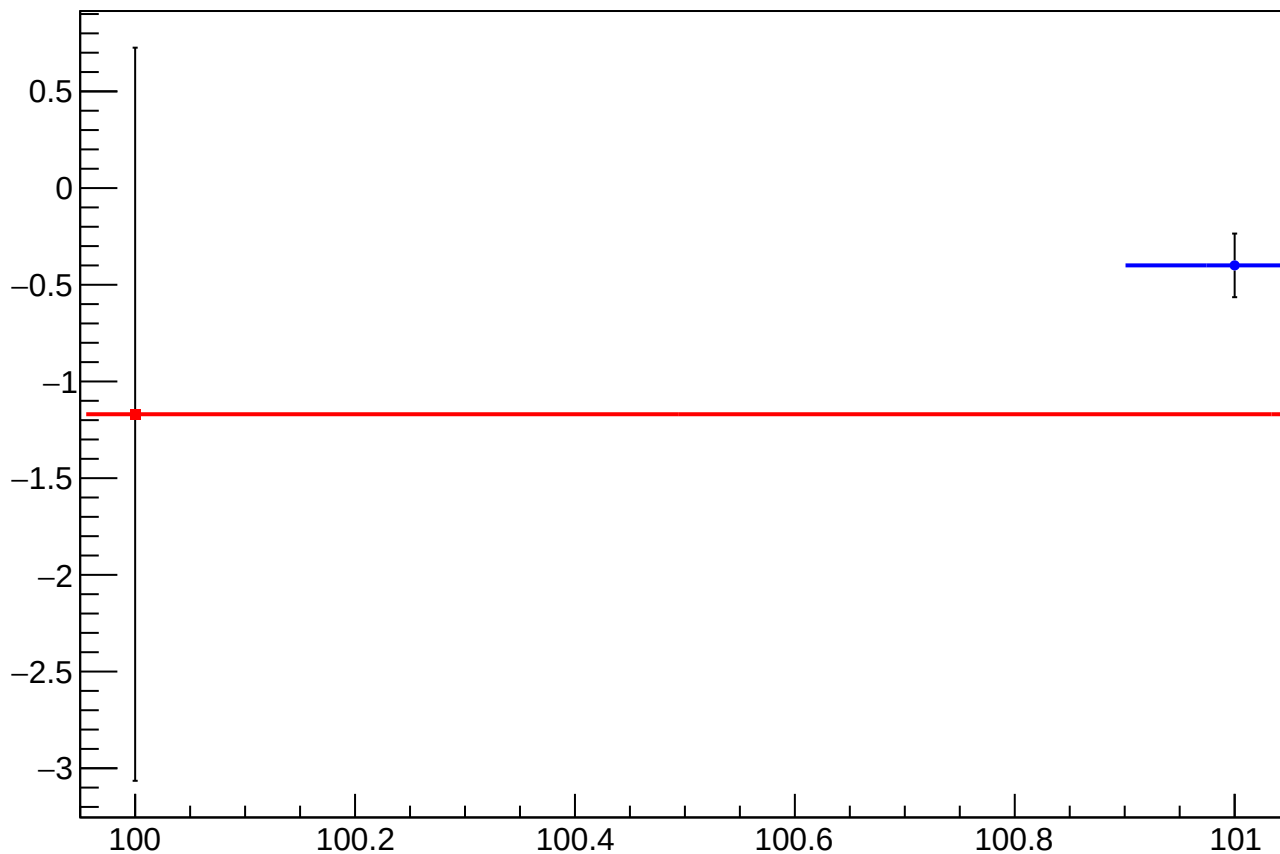
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 58333.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 58333.4/1

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.400 $\pm$ 0.164  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.169 $\pm$ 1.895  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

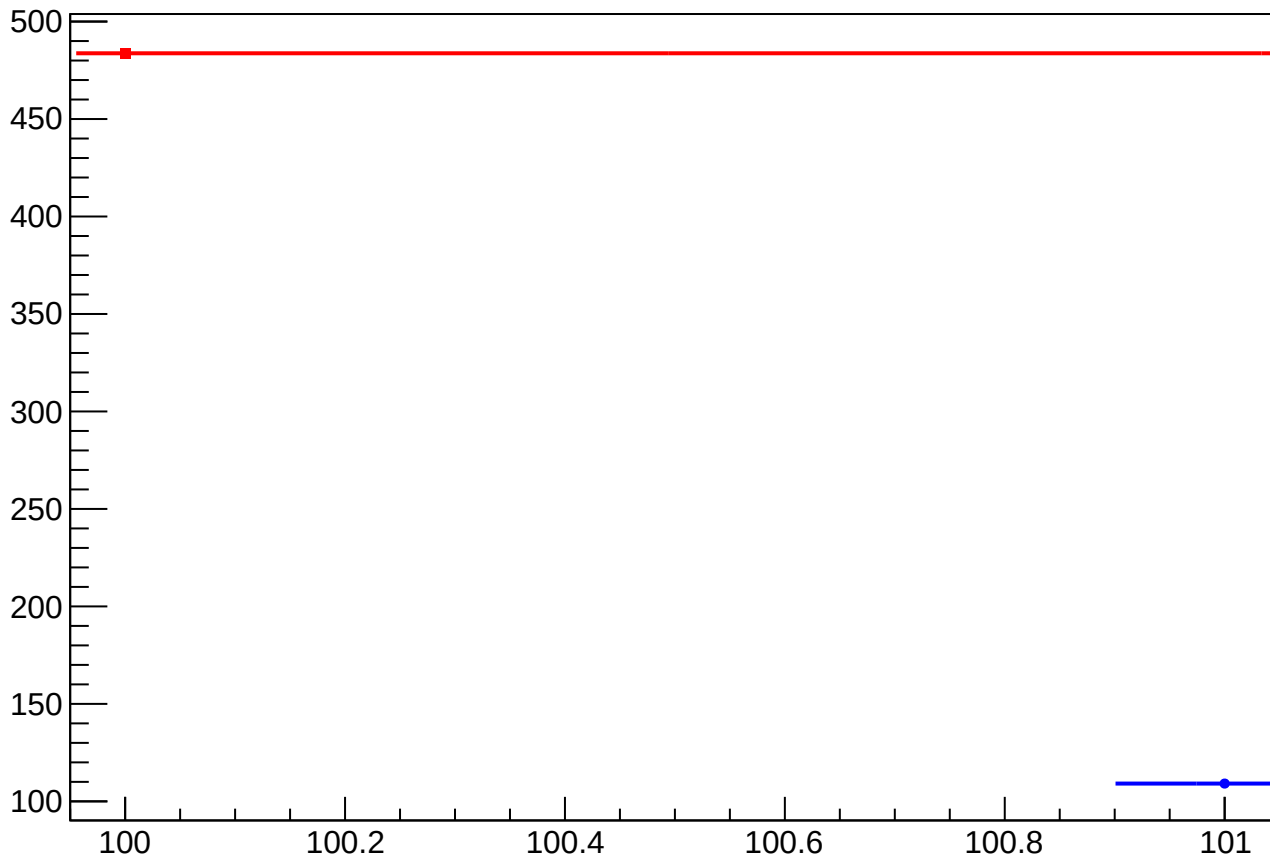
Right: -0.405 $\pm$ 0.164  $\chi^2$ /NDF: 0.2/1

In: -0.400 $\pm$ 0.164  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.405 $\pm$ 0.164  $\chi^2$ /NDF: 0.2/1

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 109.126 $\pm$ 0.116  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 483.721 $\pm$ 1.340  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

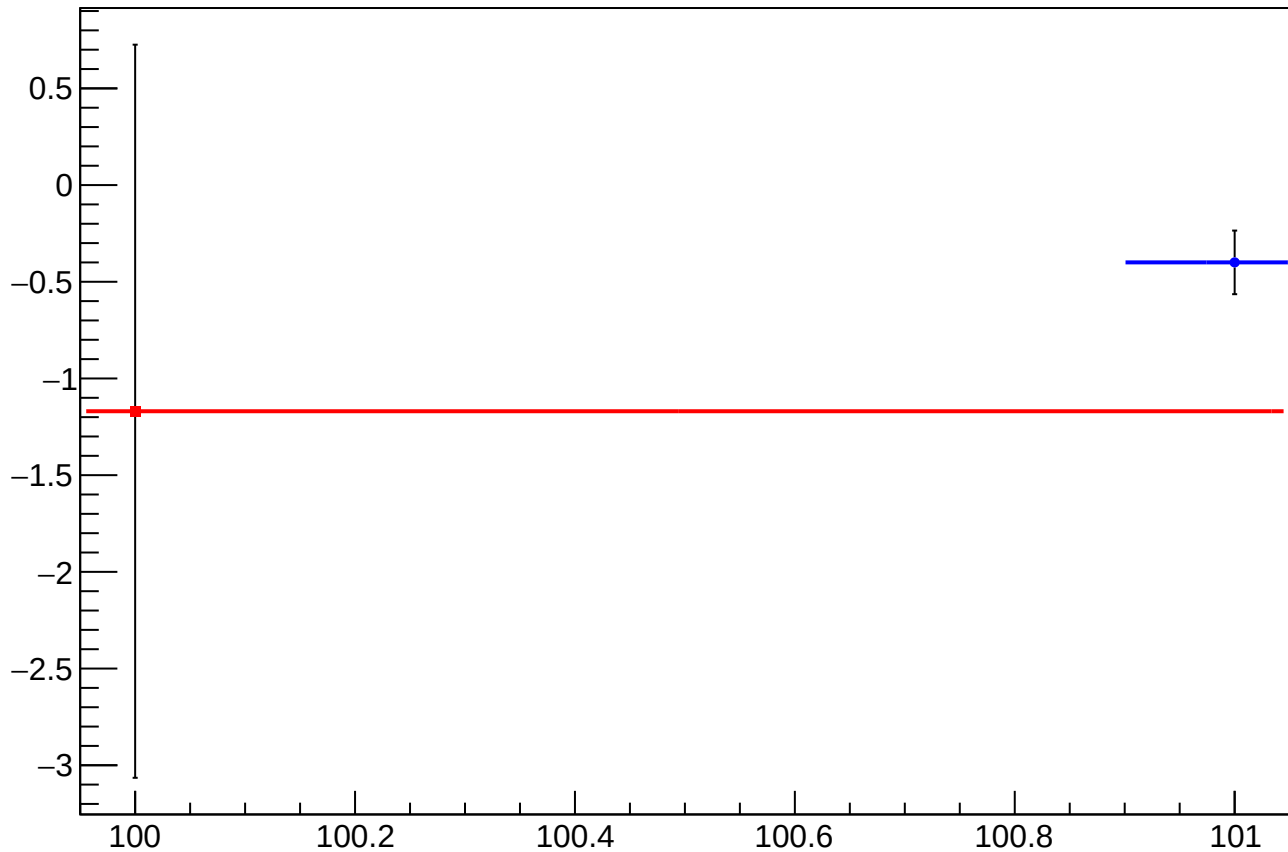
Right: 111.925 $\pm$ 0.116  $\chi^2$ /NDF: 77530.0/1

In: 109.126 $\pm$ 0.116  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.925 $\pm$ 0.116  $\chi^2$ /NDF: 77530.0/1

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.400+/-0.164  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.169+/-1.895  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

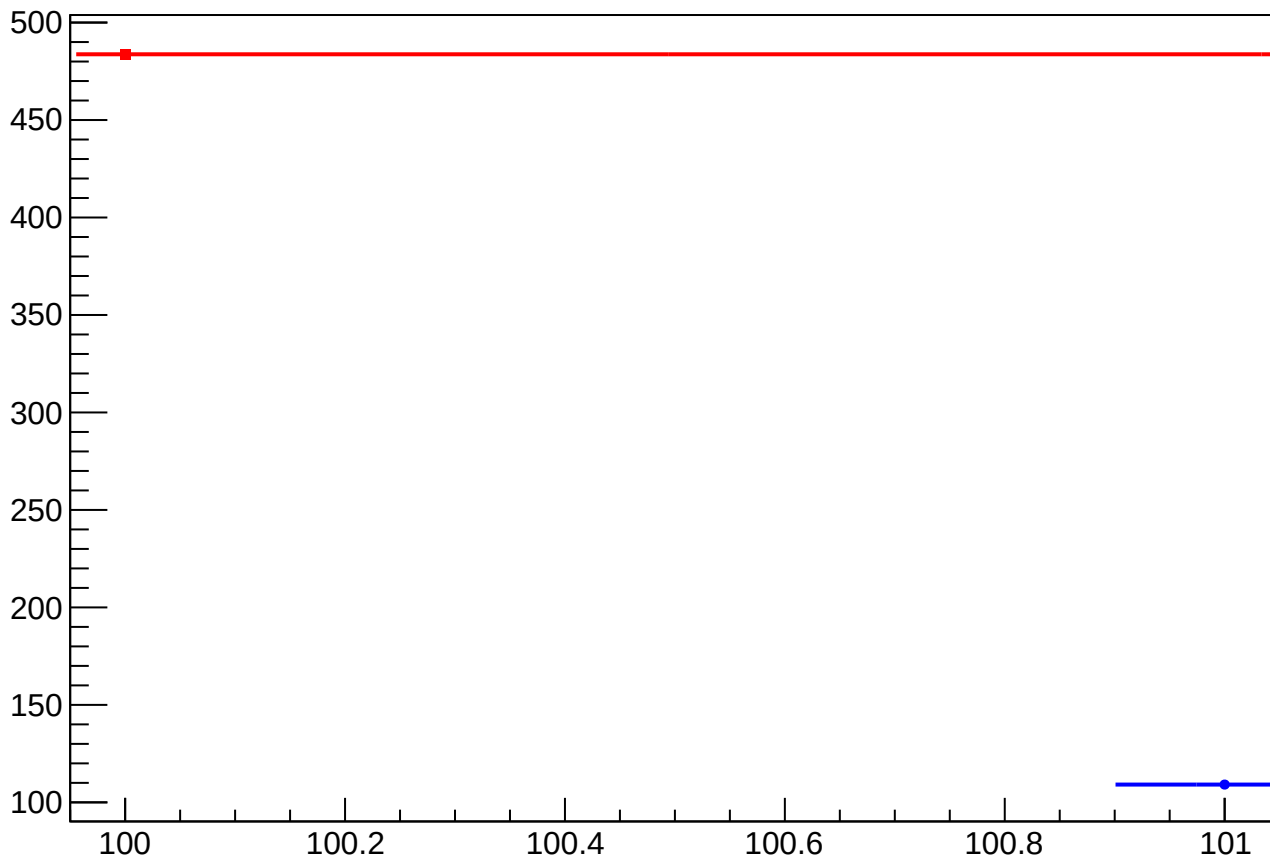
Right: -0.405+/-0.164  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.400+/-0.164  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.405+/-0.164  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_avg\_at1lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 109.126+/-0.116  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 483.721+/-1.340  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 111.925+/-0.116  $\chi^2/\text{NDF}$ : 77530.0/1

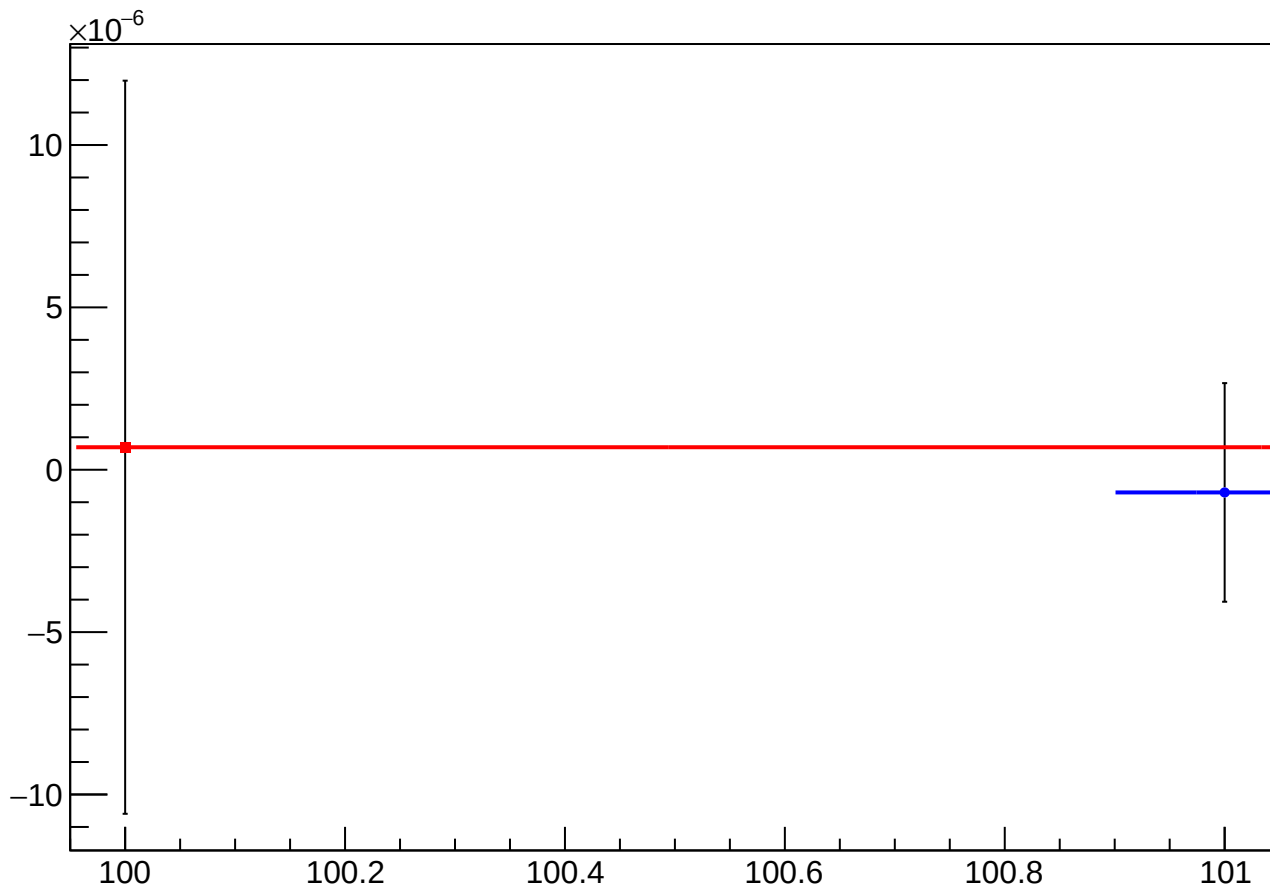
In: 109.126+/-0.116  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 111.925+/-0.116  $\chi^2/\text{NDF}$ : 77530.0/1



asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

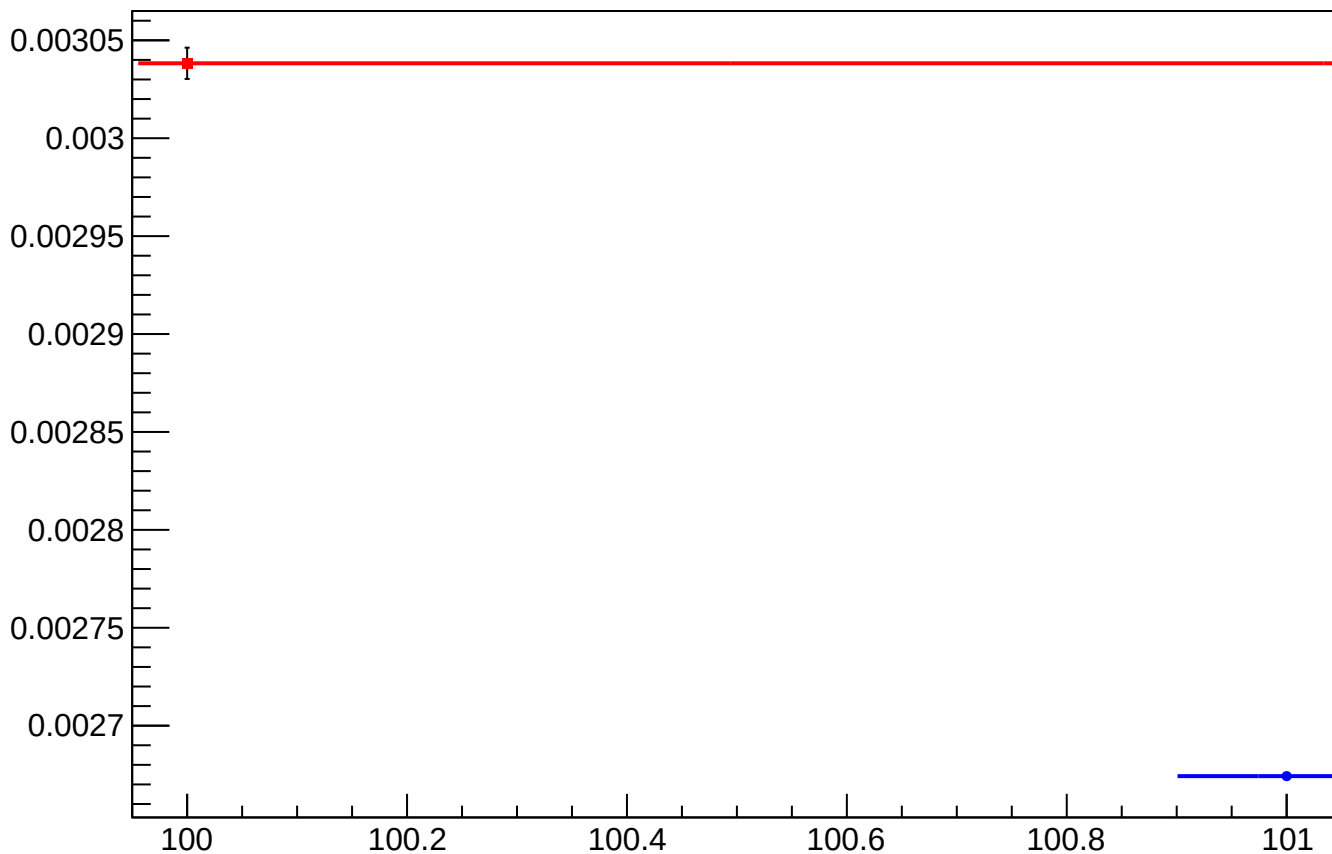
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

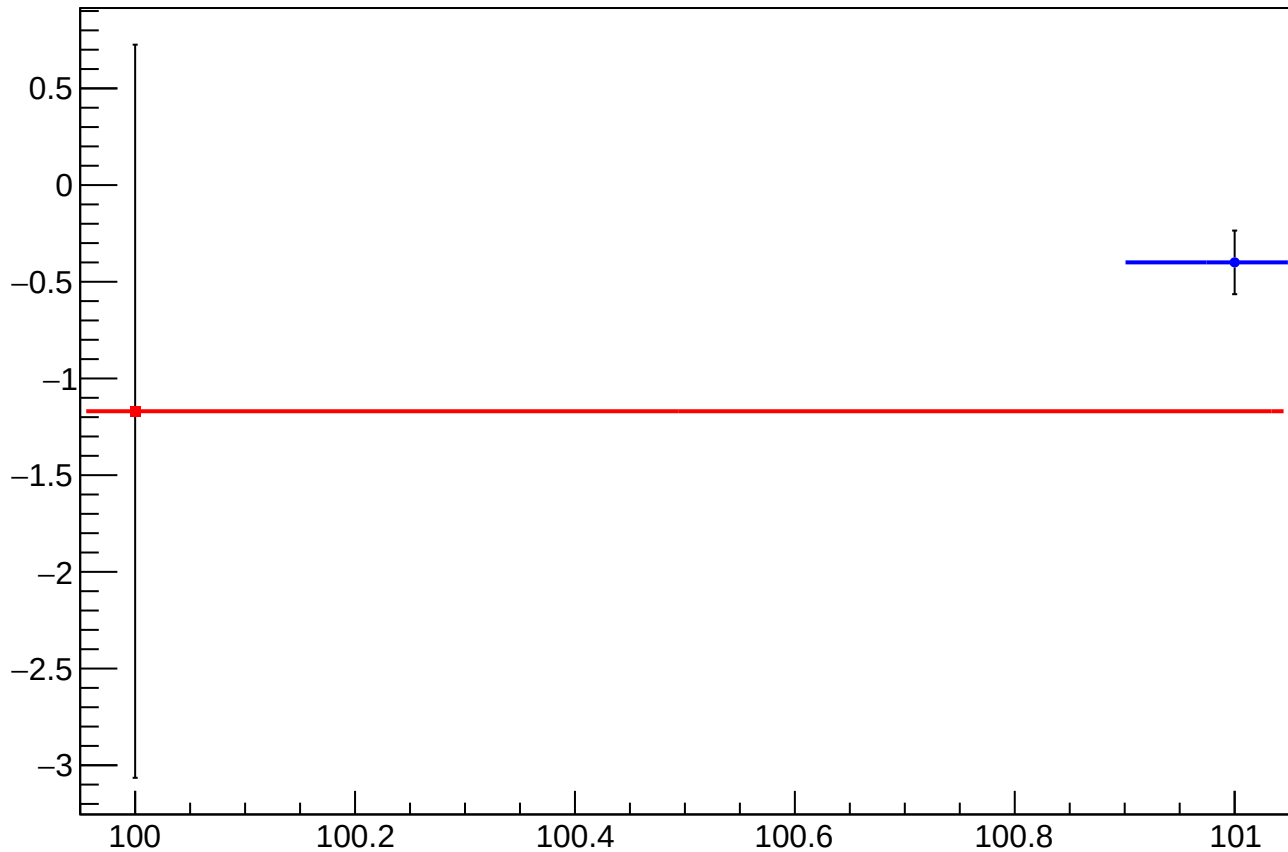
Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1910.1/1

In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1910.1/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.400+/-0.164  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.169+/-1.895  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

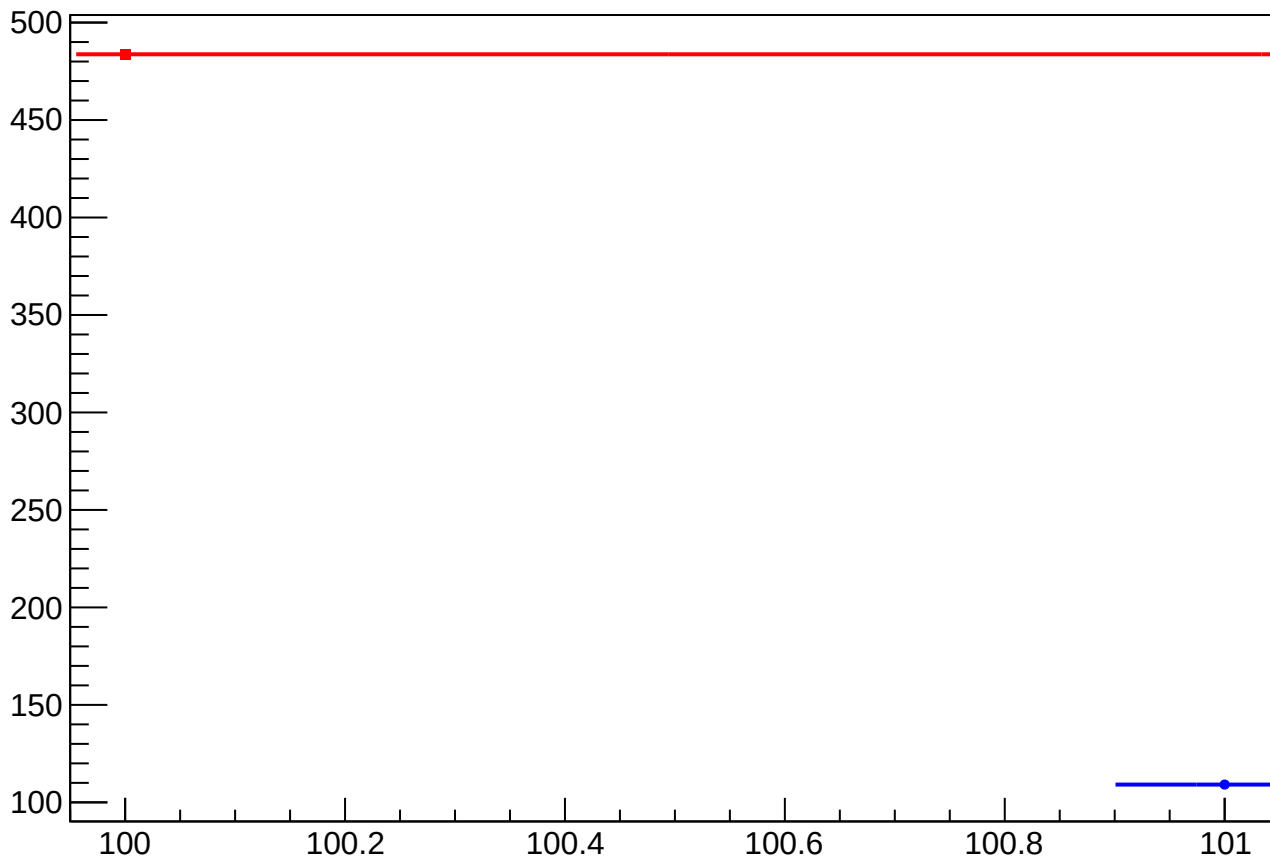
Right: -0.405+/-0.164  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.400+/-0.164  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.405+/-0.164  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 109.125+/-0.116  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 483.725+/-1.340  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

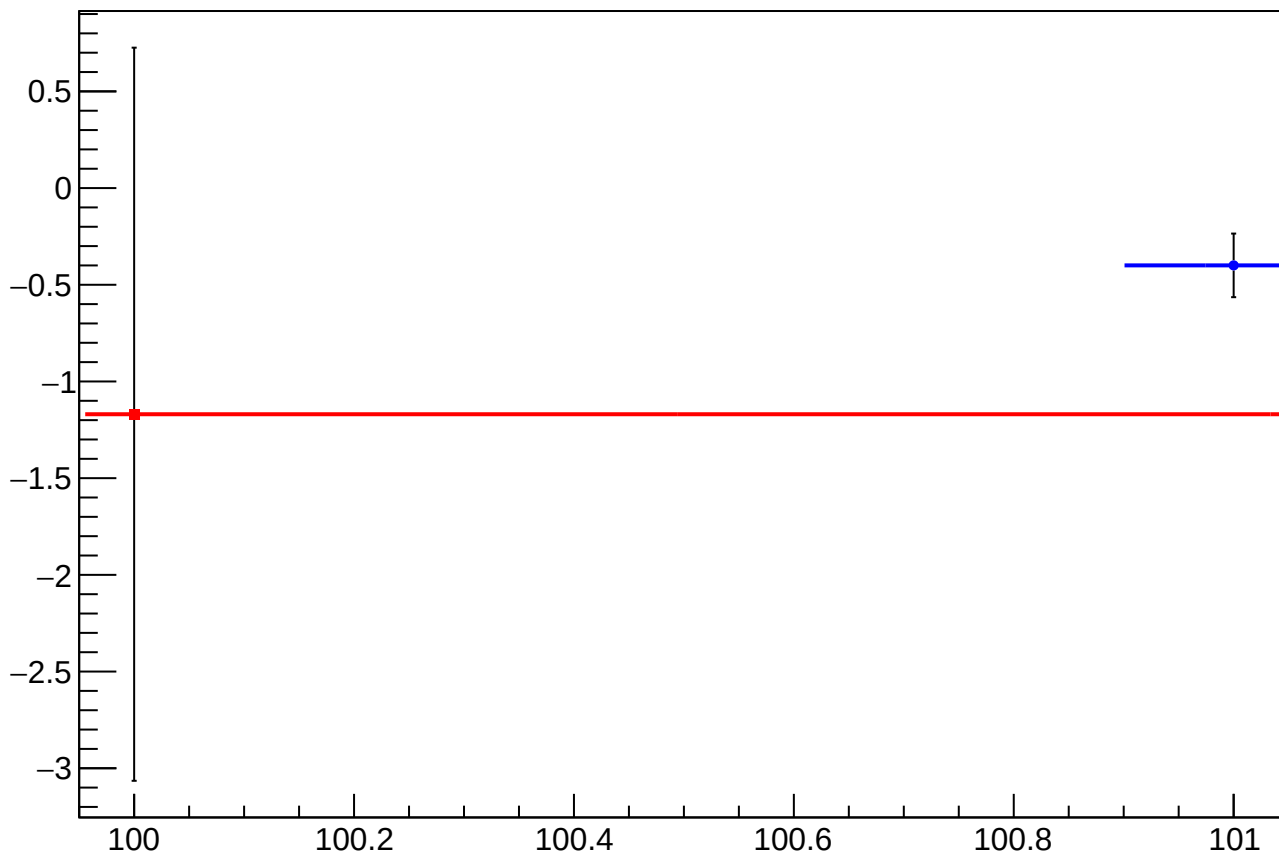
Right: 111.924+/-0.116  $\chi^2/\text{NDF}$ : 77530.8/1

In: 109.125+/-0.116  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 111.924+/-0.116  $\chi^2/\text{NDF}$ : 77530.8/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.400+/-0.164  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.169+/-1.895  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

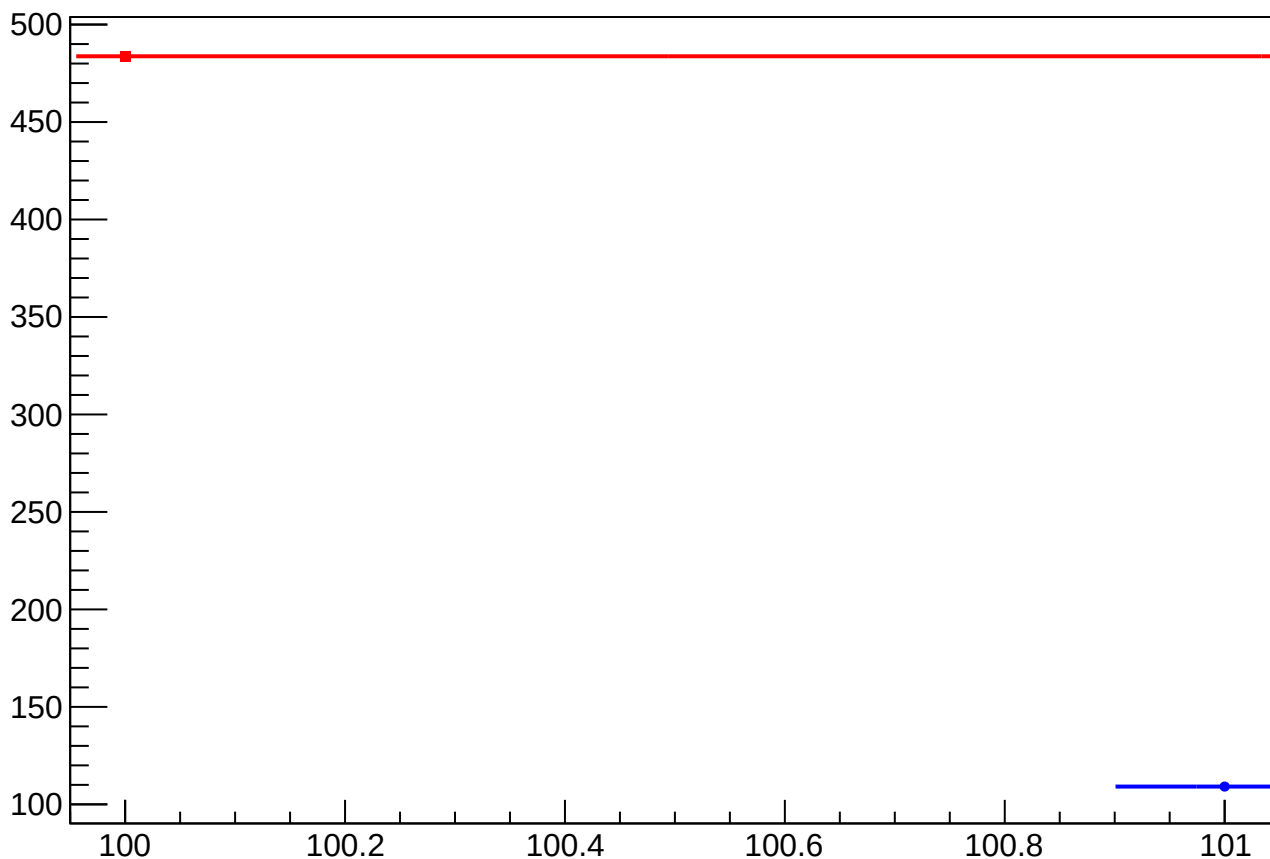
Right: -0.405+/-0.164  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.400+/-0.164  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.405+/-0.164  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 109.125 $\pm$ 0.116  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 483.725 $\pm$ 1.340  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

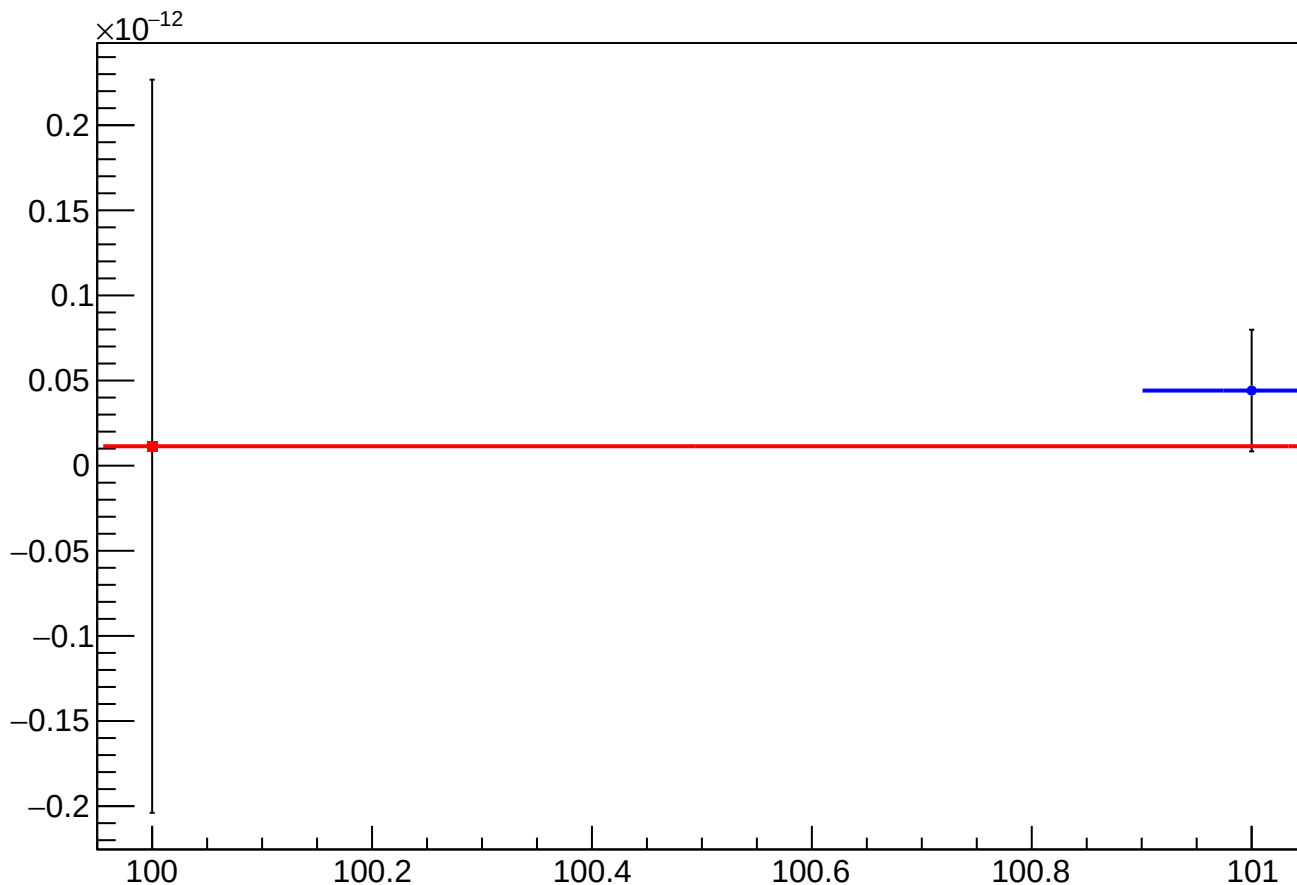
Right: 111.924 $\pm$ 0.116  $\chi^2$ /NDF: 77530.8/1

In: 109.125 $\pm$ 0.116  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 111.924 $\pm$ 0.116  $\chi^2$ /NDF: 77530.8/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

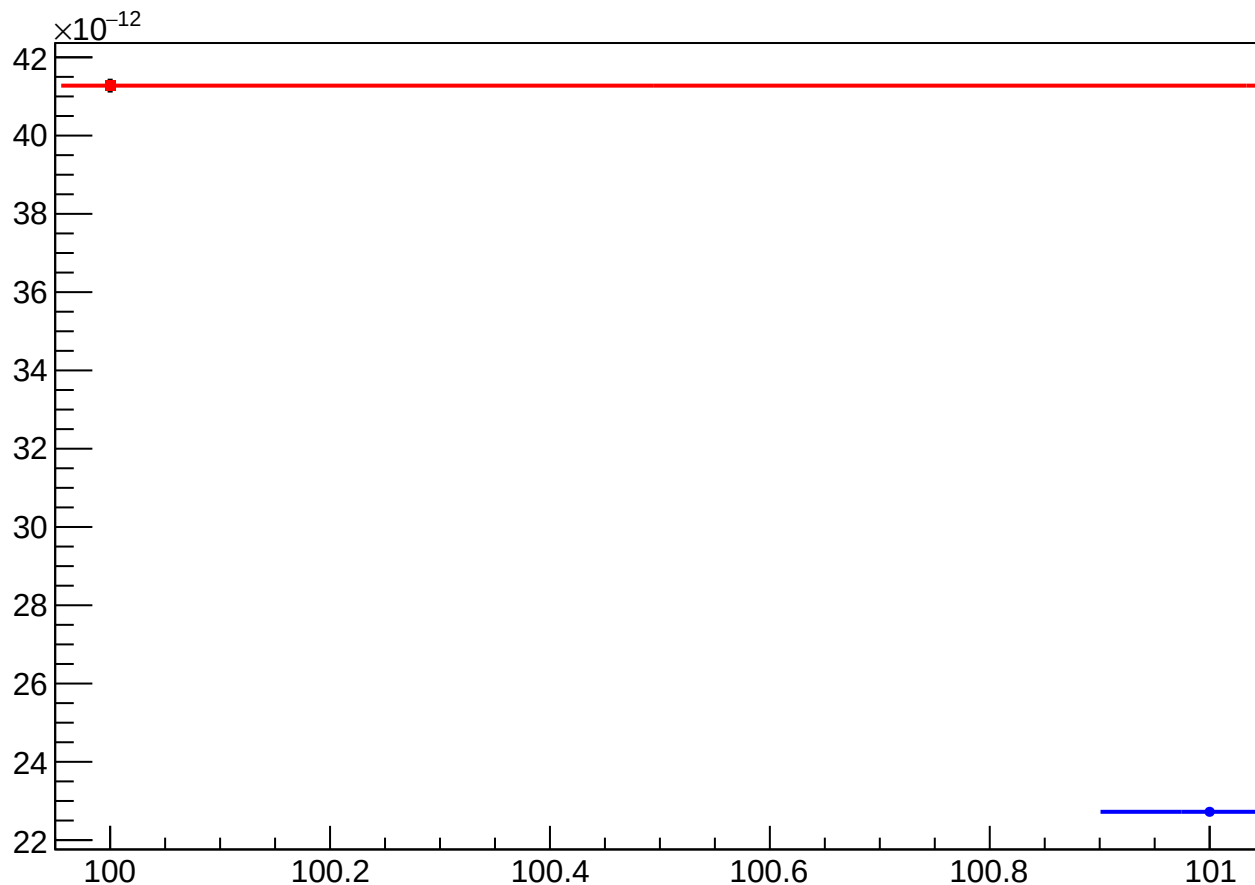
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_avg\_at1lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14449.8/1

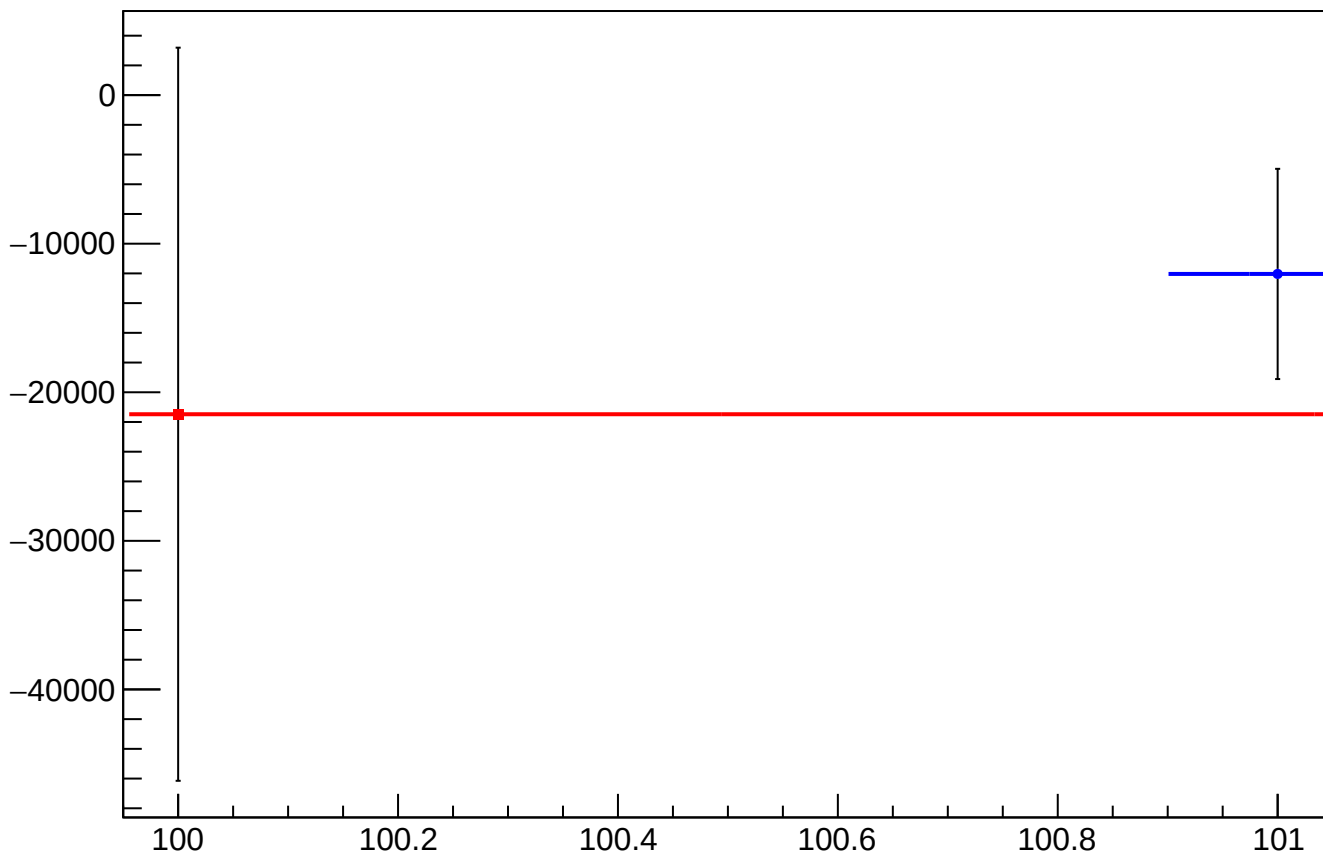
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14449.8/1



reg\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -12035.895+/-7074.113  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -21478.522+/-24671.583  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

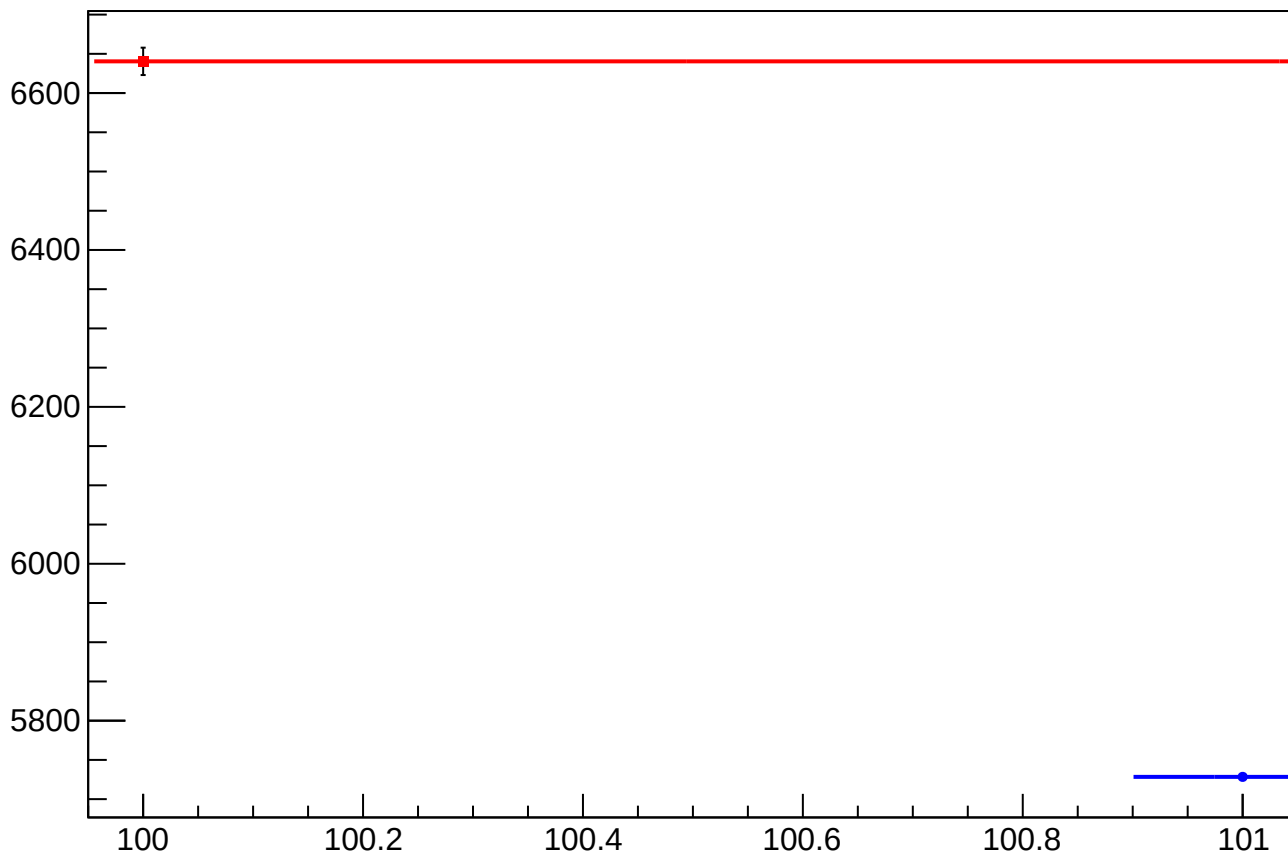
Right: -12753.242+/-6800.099  $\chi^2/\text{NDF}$ : 0.1/1

In: -12035.895+/-7074.113  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: -12753.242+/-6800.099  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 5728.376+/-5.002  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6640.402+/-17.445  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

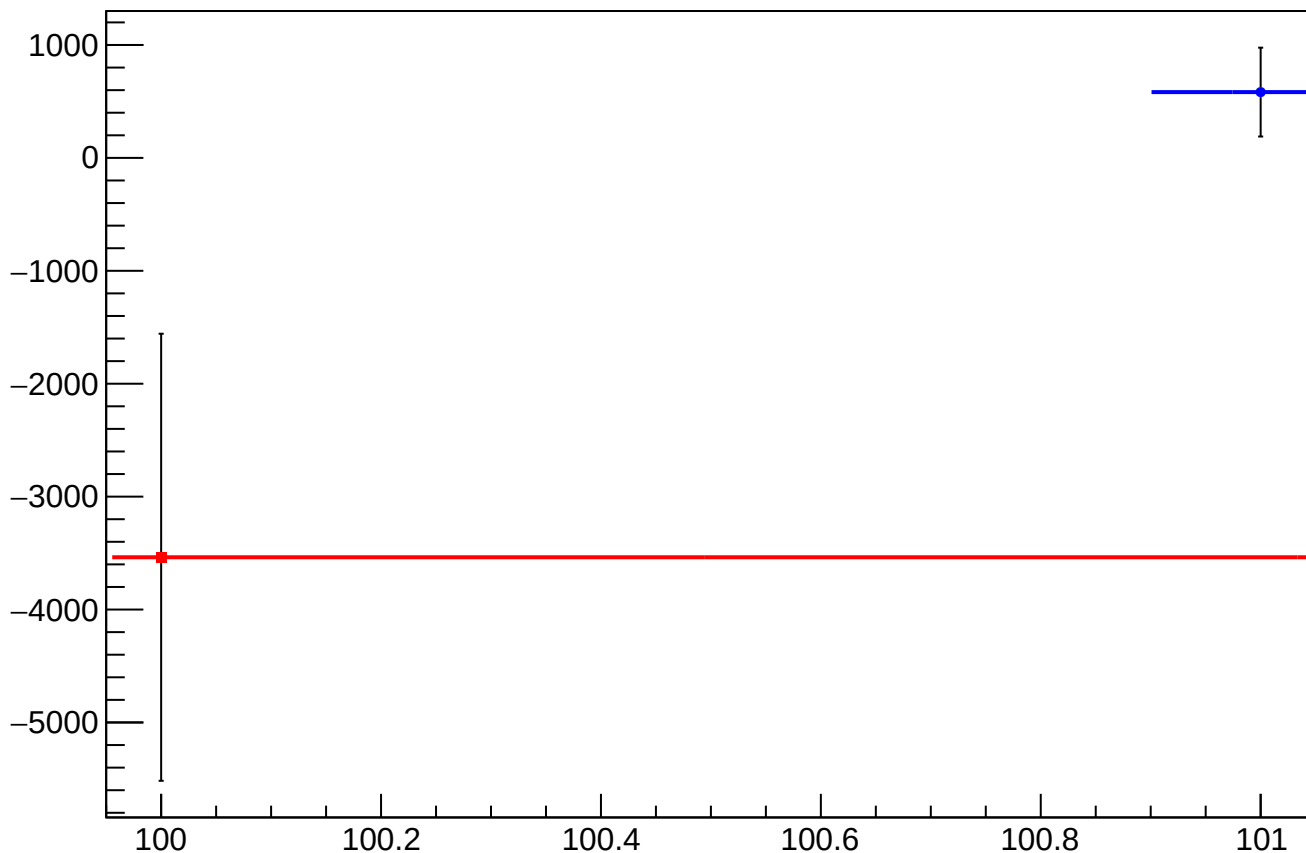
Right: 5797.662+/-4.808  $\chi^2/\text{NDF}$ : 2525.4/1

In: 5728.376+/-5.002  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5797.662+/-4.808  $\chi^2/\text{NDF}$ : 2525.4/1

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 582.700+/-393.473  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3537.000+/-1979.684  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

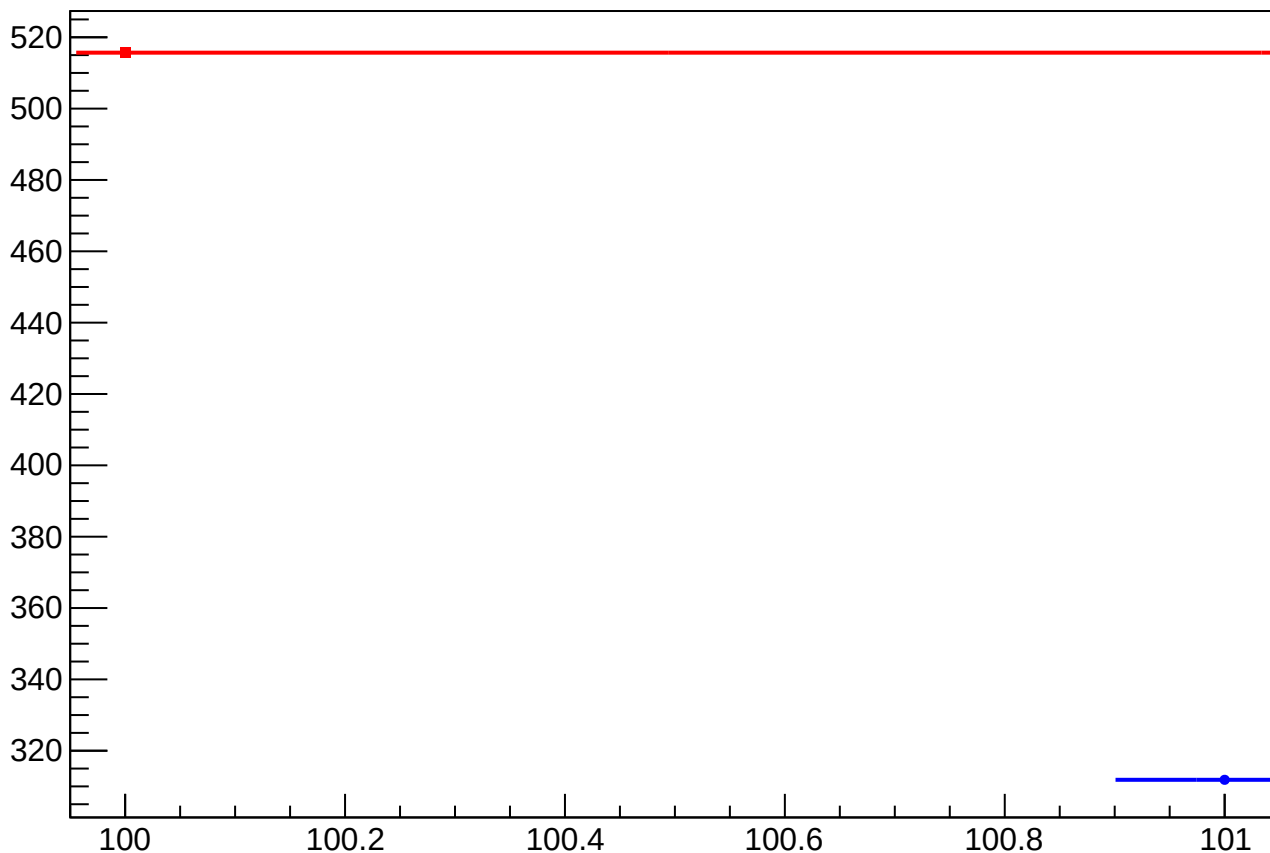
Right: 426.141+/-385.924  $\chi^2/\text{NDF}$ : 4.2/1

In: 582.700+/-393.473  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 426.141+/-385.924  $\chi^2/\text{NDF}$ : 4.2/1

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 311.849 $\pm$ 0.278  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 515.684 $\pm$ 1.400  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

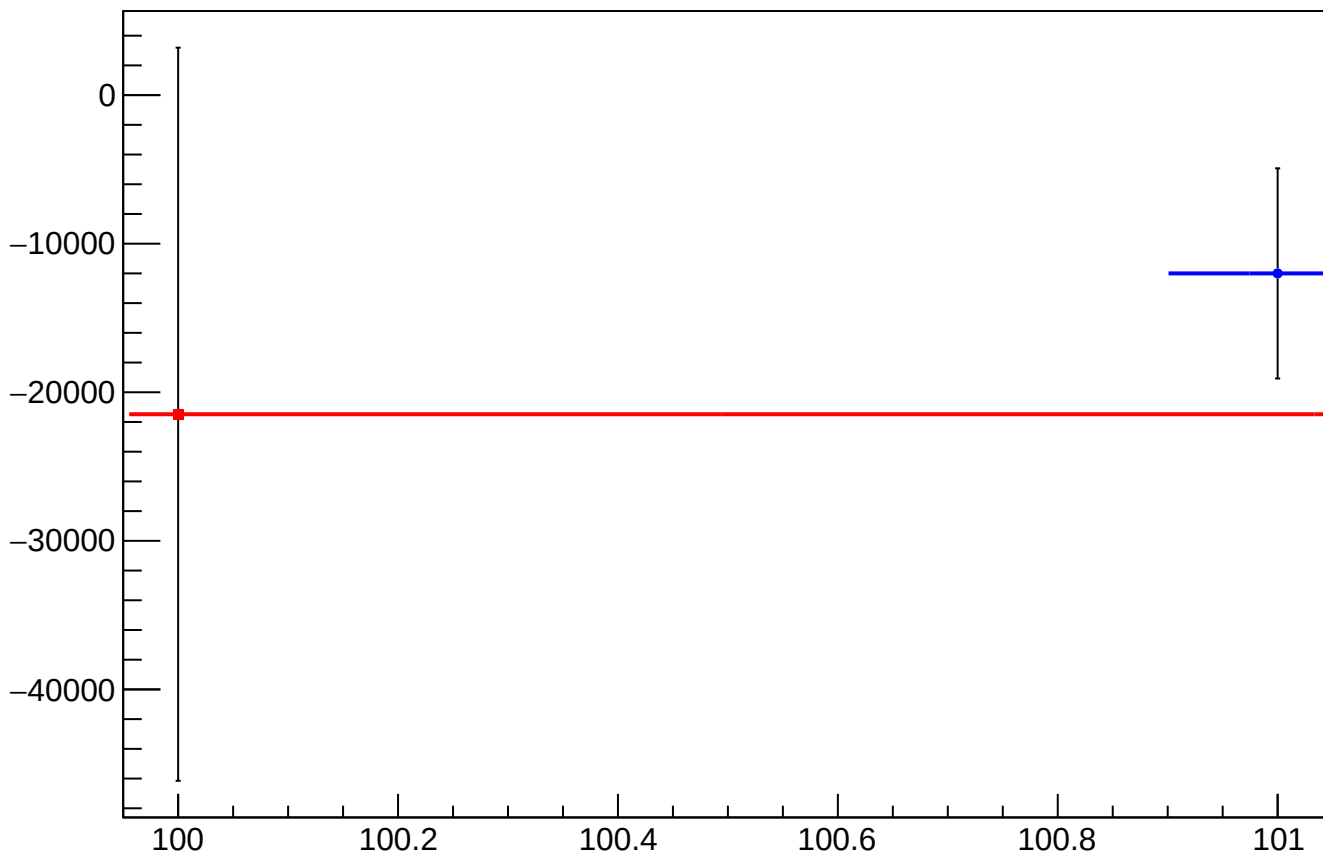
Right: 319.595 $\pm$ 0.273  $\chi^2$ /NDF: 20397.3/1

In: 311.849 $\pm$ 0.278  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 319.595 $\pm$ 0.273  $\chi^2$ /NDF: 20397.3/1

cor\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -11999.623+/-7074.143  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -21478.594+/-24671.583  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

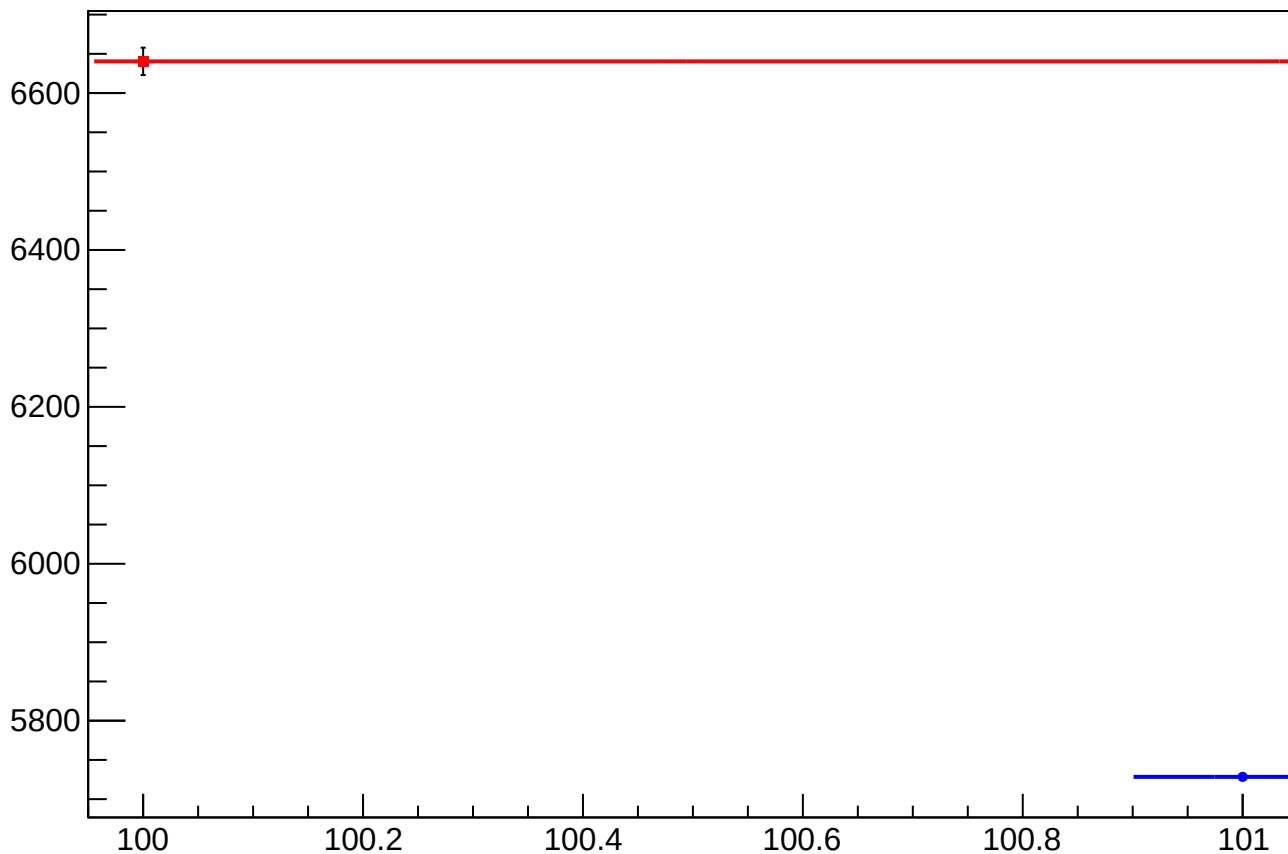
Right: -12719.737+/-6800.126  $\chi^2/\text{NDF}$ : 0.1/1

In: -11999.623+/-7074.143  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12719.737+/-6800.126  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 5728.392 $\pm$ 5.002  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6640.402 $\pm$ 17.445  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

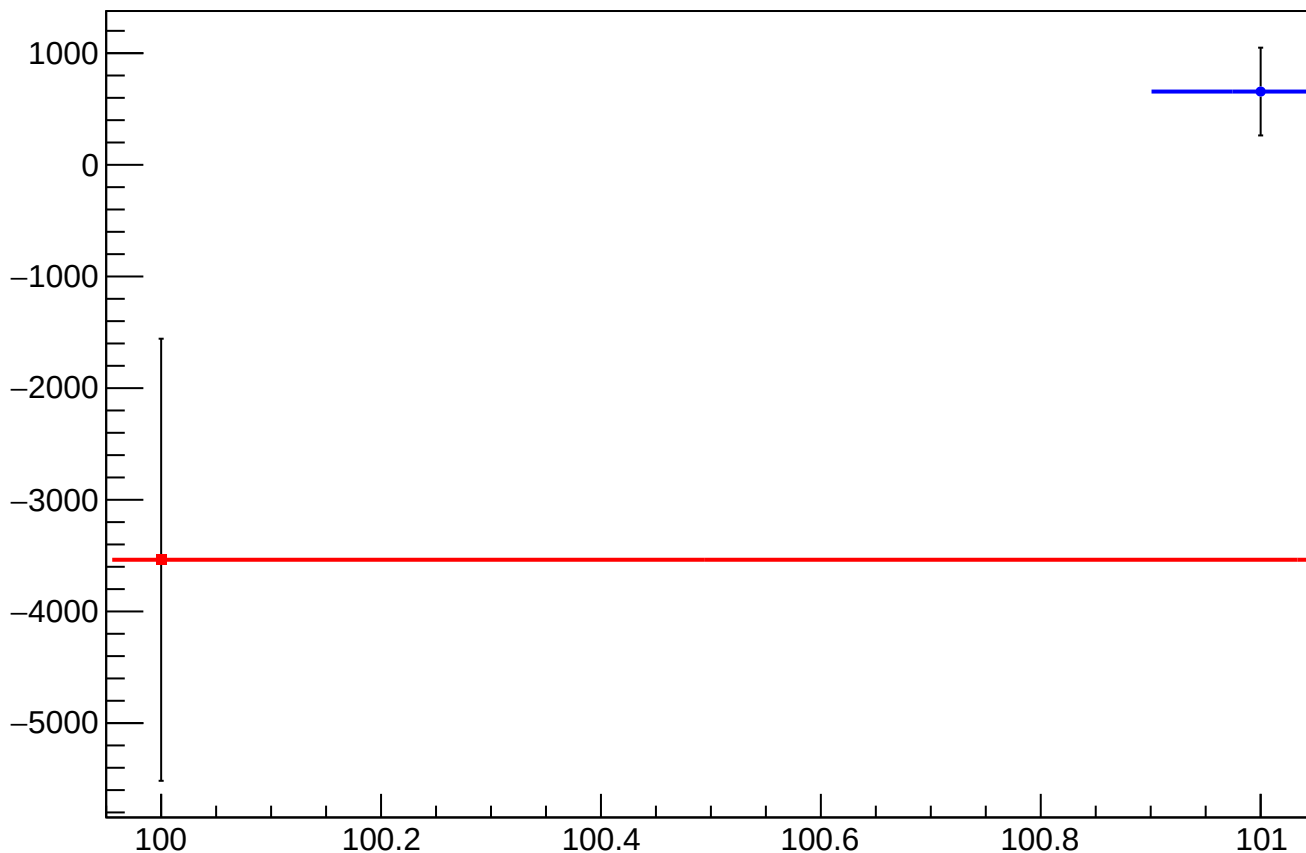
Right: 5797.677 $\pm$ 4.808  $\chi^2$ /NDF: 2525.3/1

In: 5728.392 $\pm$ 5.002  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5797.677 $\pm$ 4.808  $\chi^2$ /NDF: 2525.3/1

asym\_us\_avg\_at1lr\_avg\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 656.246+/-393.038  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3537.018+/-1979.687  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

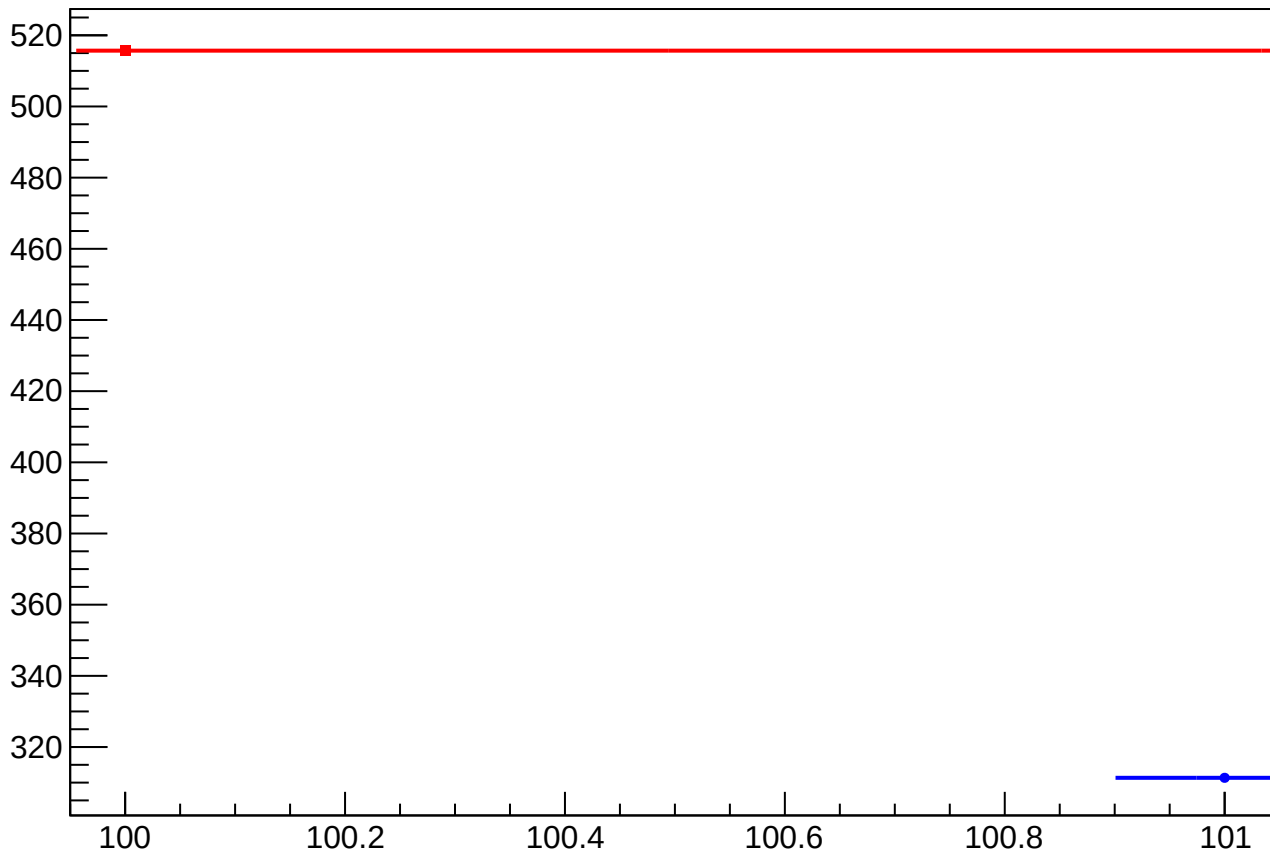
Right: 497.230+/-385.514  $\chi^2/\text{NDF}$ : 4.3/1

In: 656.246+/-393.038  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 497.230+/-385.514  $\chi^2/\text{NDF}$ : 4.3/1

asym\_us\_avg\_at1lr\_avg\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 311.350 $\pm$ 0.278  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 515.684 $\pm$ 1.400  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 319.098 $\pm$ 0.273  $\chi^2$ /NDF: 20499.0/1

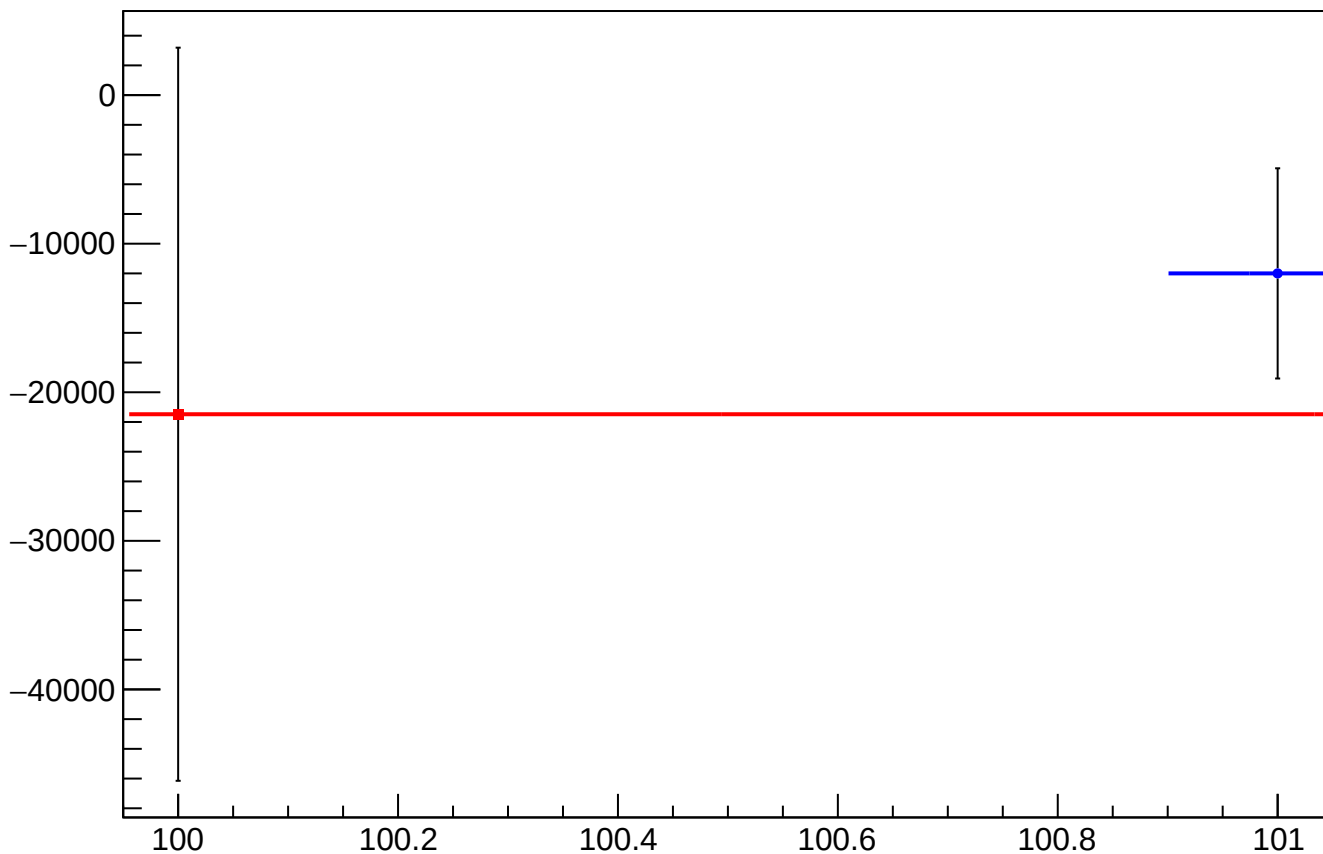
In: 311.350 $\pm$ 0.278  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 319.098 $\pm$ 0.273  $\chi^2$ /NDF: 20499.0/1



eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -11999.623+/-7074.143  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -21478.594+/-24671.583  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

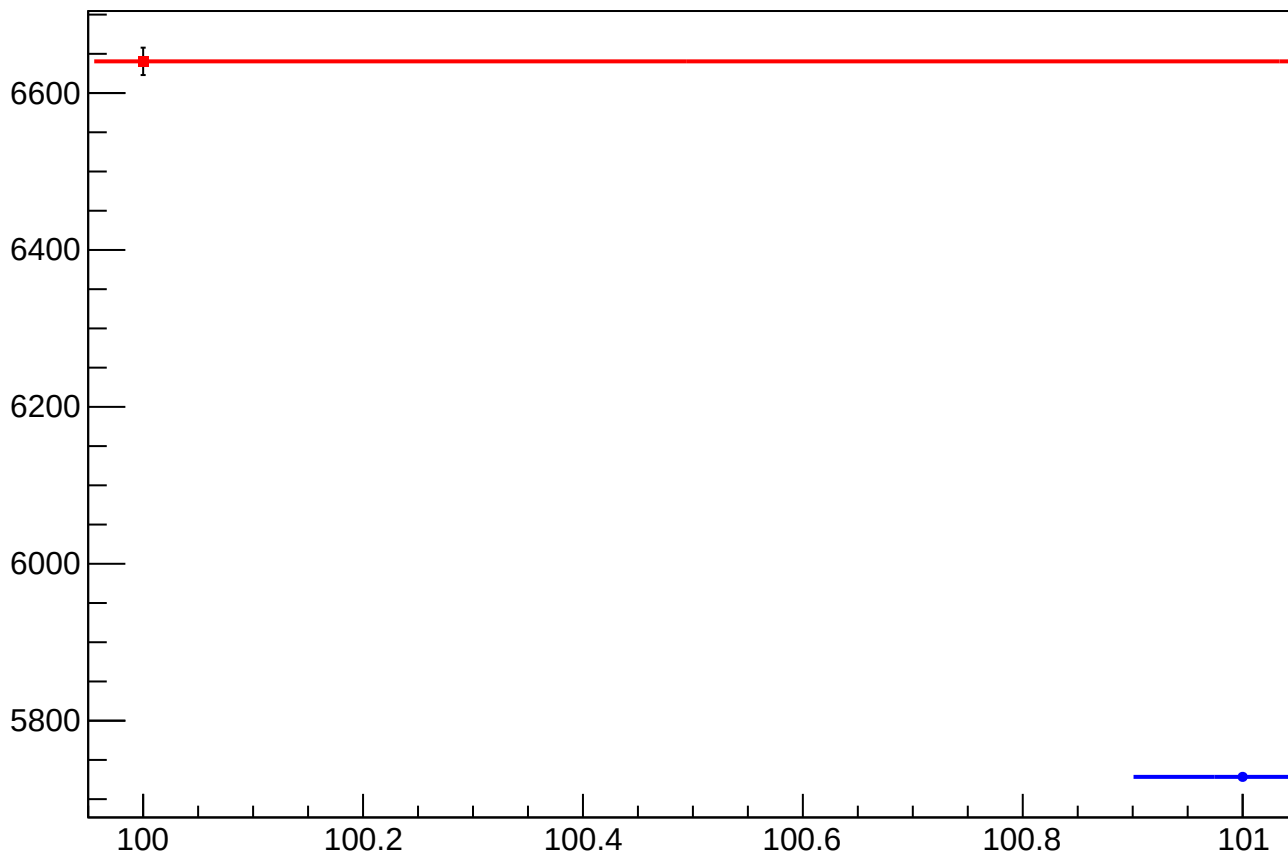
Right: -12719.737+/-6800.126  $\chi^2/\text{NDF}$ : 0.1/1

In: -11999.623+/-7074.143  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12719.737+/-6800.126  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 5728.392 $\pm$ 5.002  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6640.402 $\pm$ 17.445  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

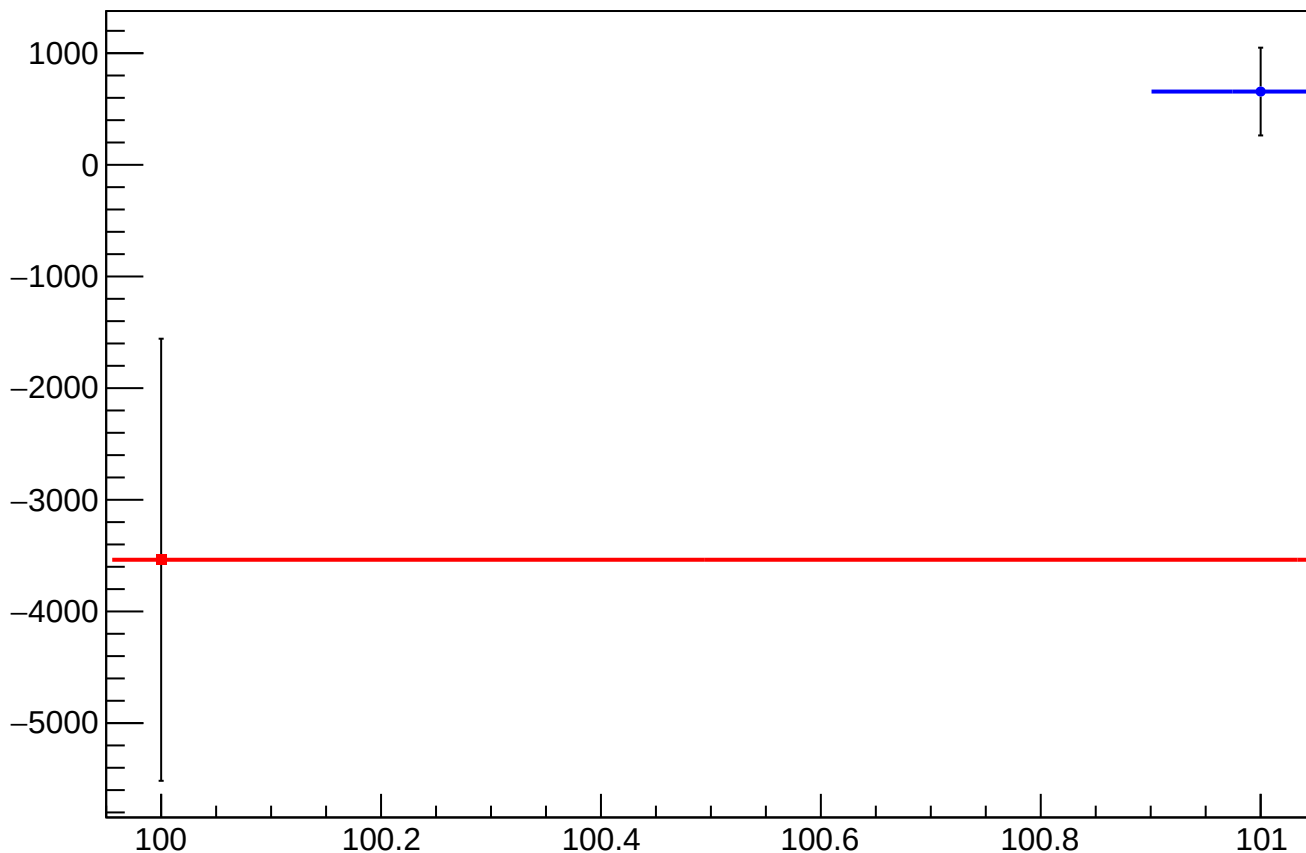
Right: 5797.677 $\pm$ 4.808  $\chi^2$ /NDF: 2525.3/1

In: 5728.392 $\pm$ 5.002  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5797.677 $\pm$ 4.808  $\chi^2$ /NDF: 2525.3/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 656.246+/-393.038  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3537.018+/-1979.687  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

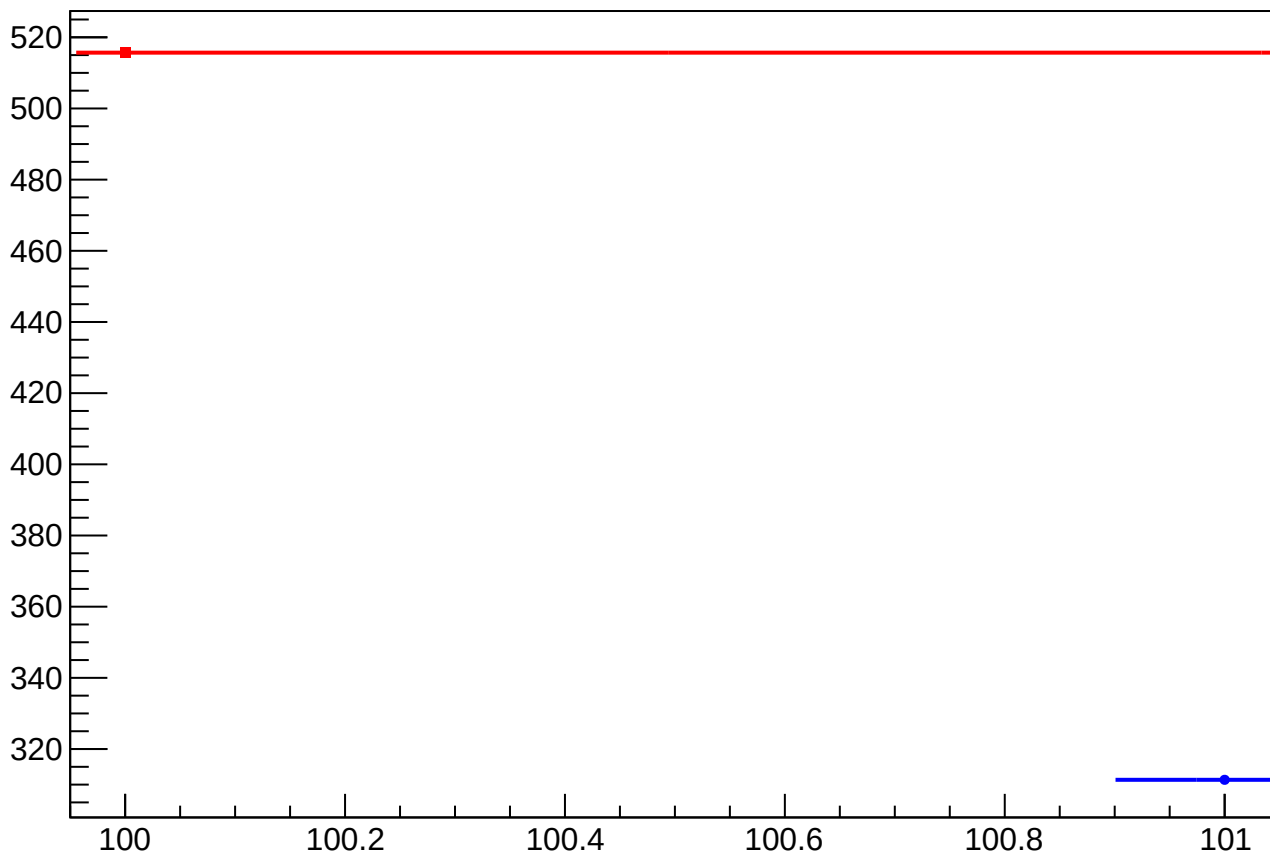
Right: 497.230+/-385.514  $\chi^2/\text{NDF}$ : 4.3/1

In: 656.246+/-393.038  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 497.230+/-385.514  $\chi^2/\text{NDF}$ : 4.3/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 311.350 $\pm$ 0.278  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 515.684 $\pm$ 1.400  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

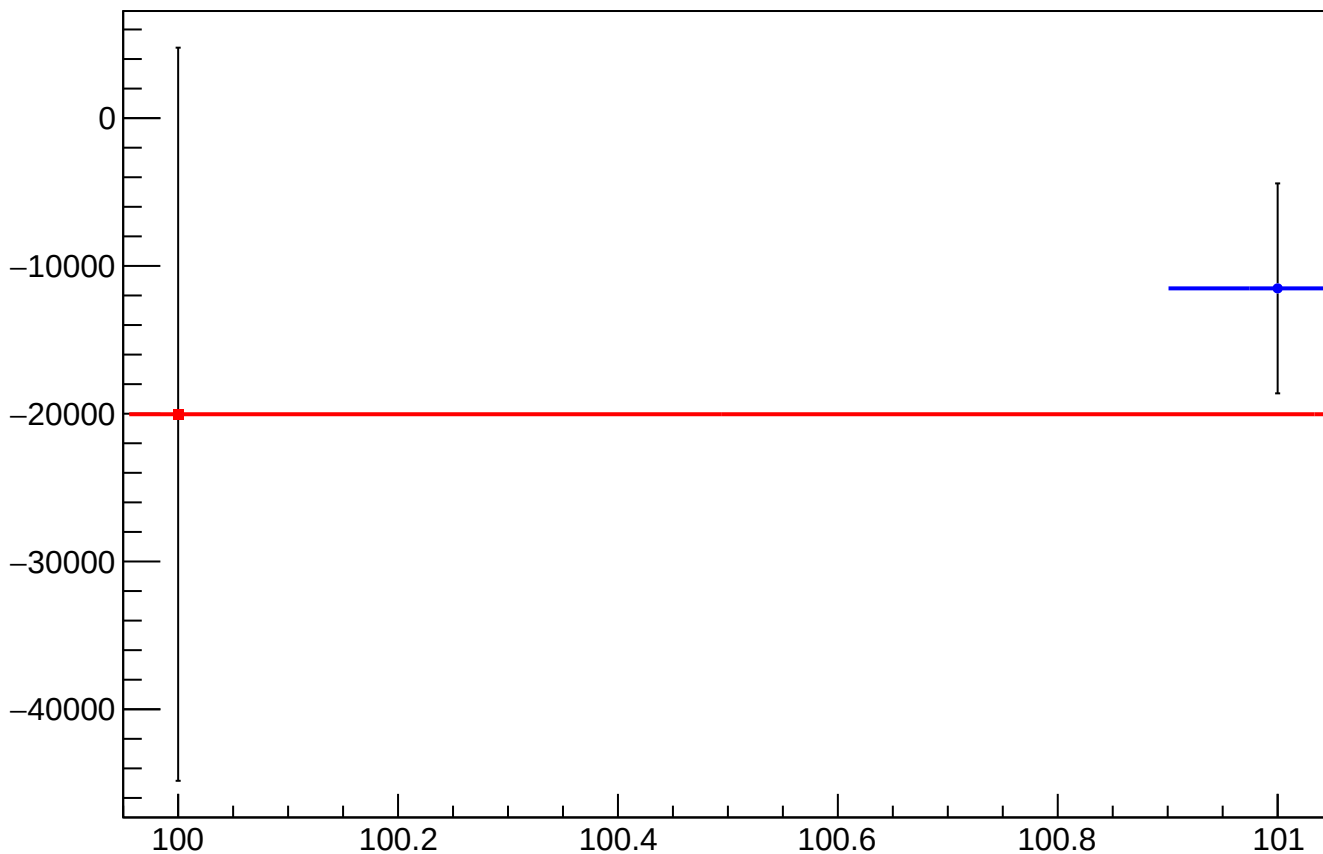
Right: 319.098 $\pm$ 0.273  $\chi^2$ /NDF: 20499.0/1

In: 311.350 $\pm$ 0.278  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 319.098 $\pm$ 0.273  $\chi^2$ /NDF: 20499.0/1

dit\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -11519.385+/-7103.153  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20035.837+/-24804.077  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

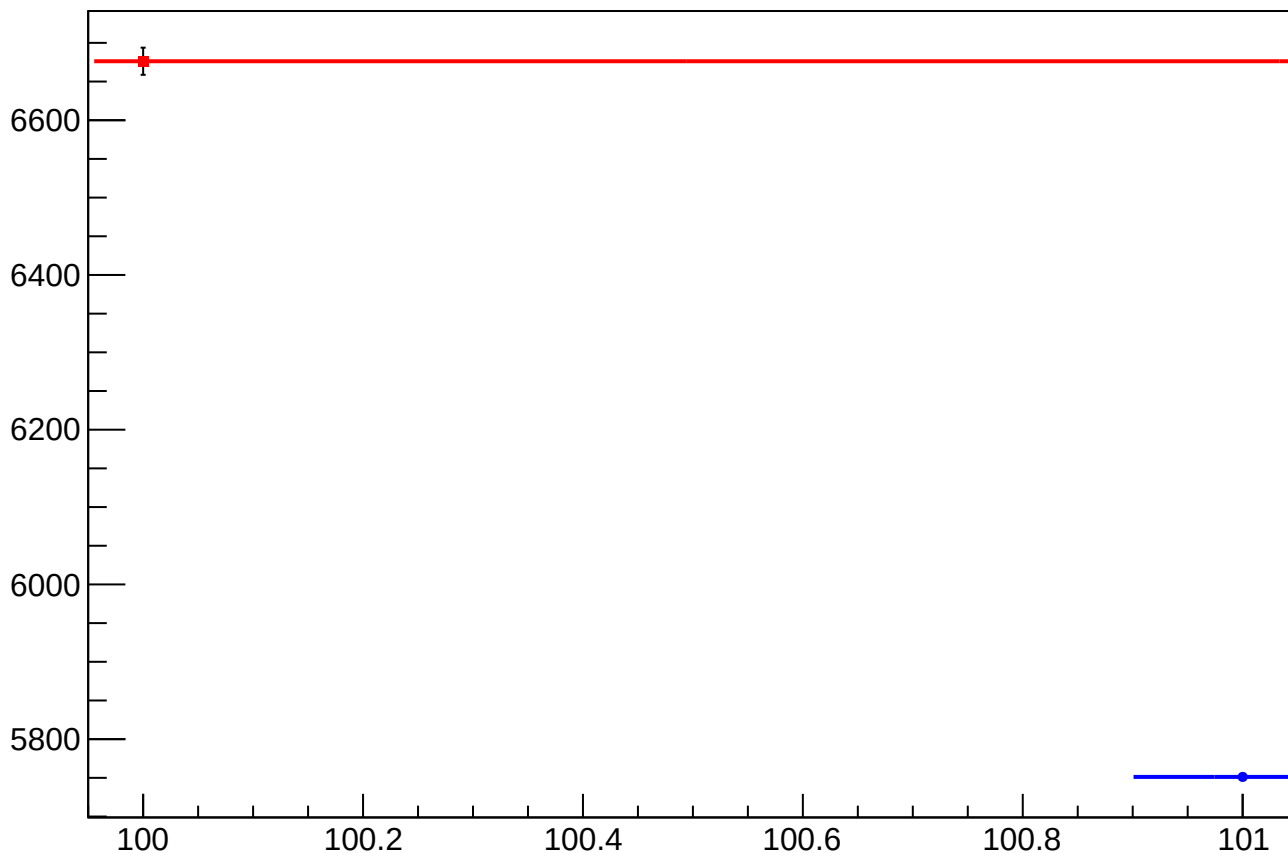
Right: -12164.868+/-6828.667  $\chi^2/\text{NDF}$ : 0.1/1

In: -11519.385+/-7103.153  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12164.868+/-6828.667  $\chi^2/\text{NDF}$ : 0.1/1

dit\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 5751.211+/-5.023  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6676.239+/-17.539  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

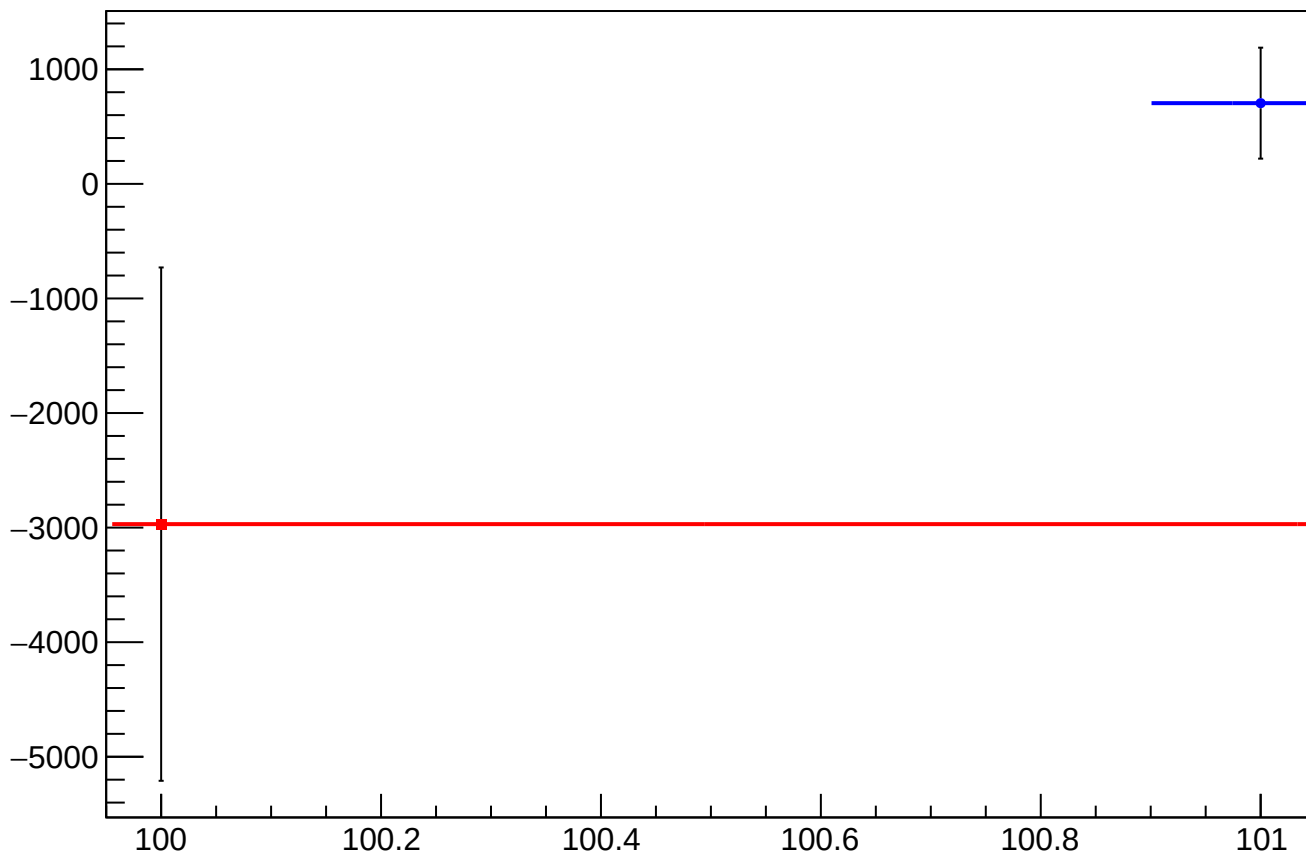
Right: 5821.321+/-4.829  $\chi^2/\text{NDF}$ : 2570.8/1

In: 5751.211+/-5.023  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5821.321+/-4.829  $\chi^2/\text{NDF}$ : 2570.8/1

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 704.529+/-484.254  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2969.615+/-2240.156  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

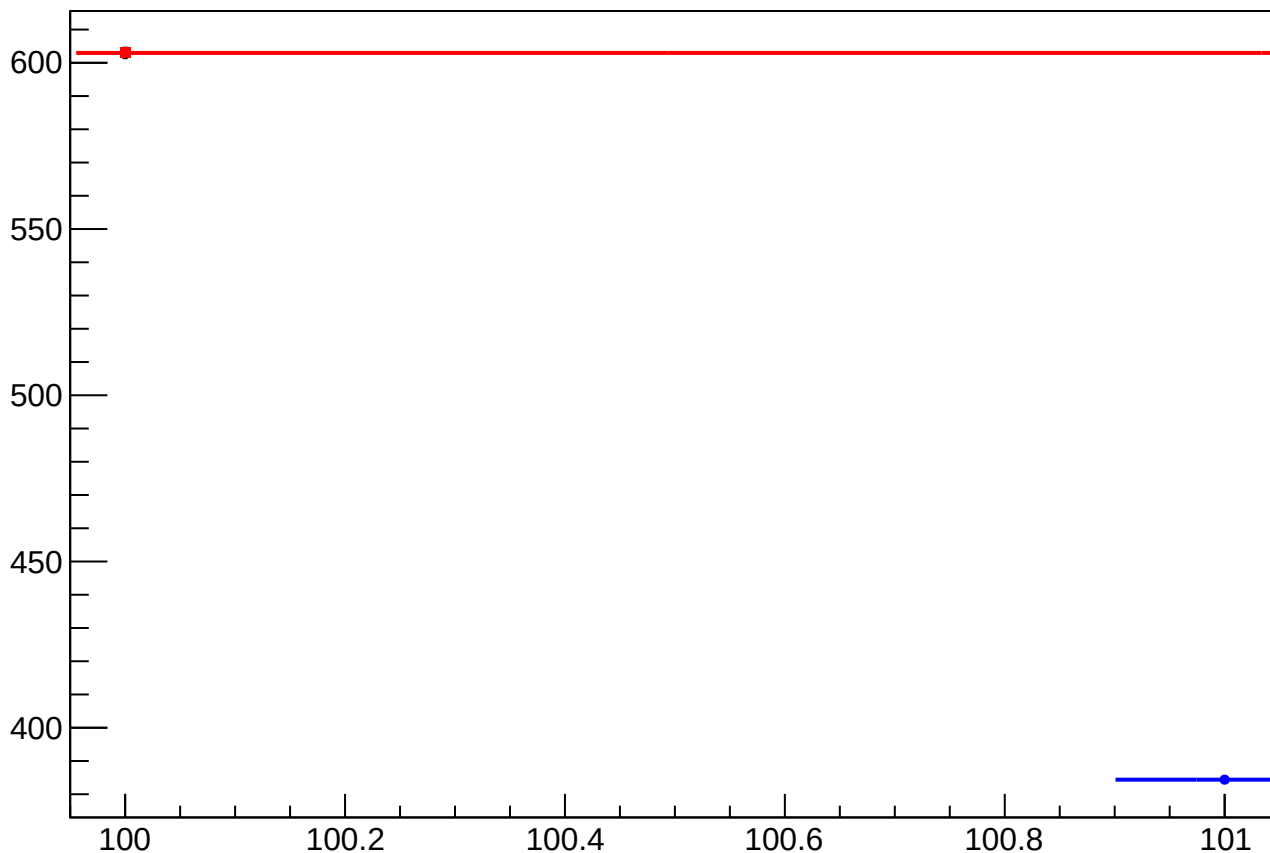
Right: 540.504+/-473.321  $\chi^2/\text{NDF}$ : 2.6/1

In: 704.529+/-484.254  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 540.504+/-473.321  $\chi^2/\text{NDF}$ : 2.6/1

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 384.383+/-0.342  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 602.966+/-1.584  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 394.141+/-0.335  $\chi^2/\text{NDF}$ : 18191.6/1

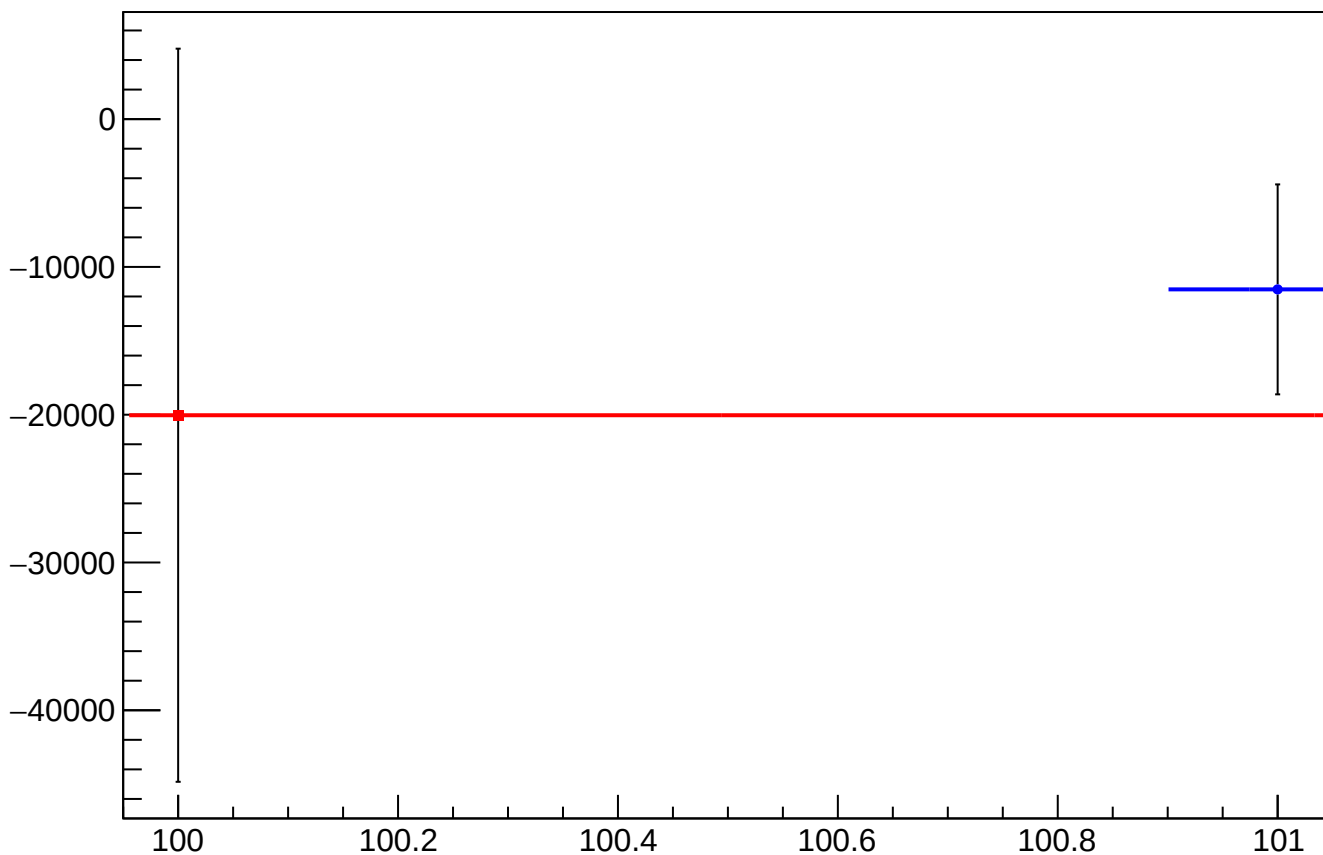
In: 384.383+/-0.342  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 394.141+/-0.335  $\chi^2/\text{NDF}$ : 18191.6/1



eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -11519.384+/-7103.153  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20035.837+/-24804.077  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

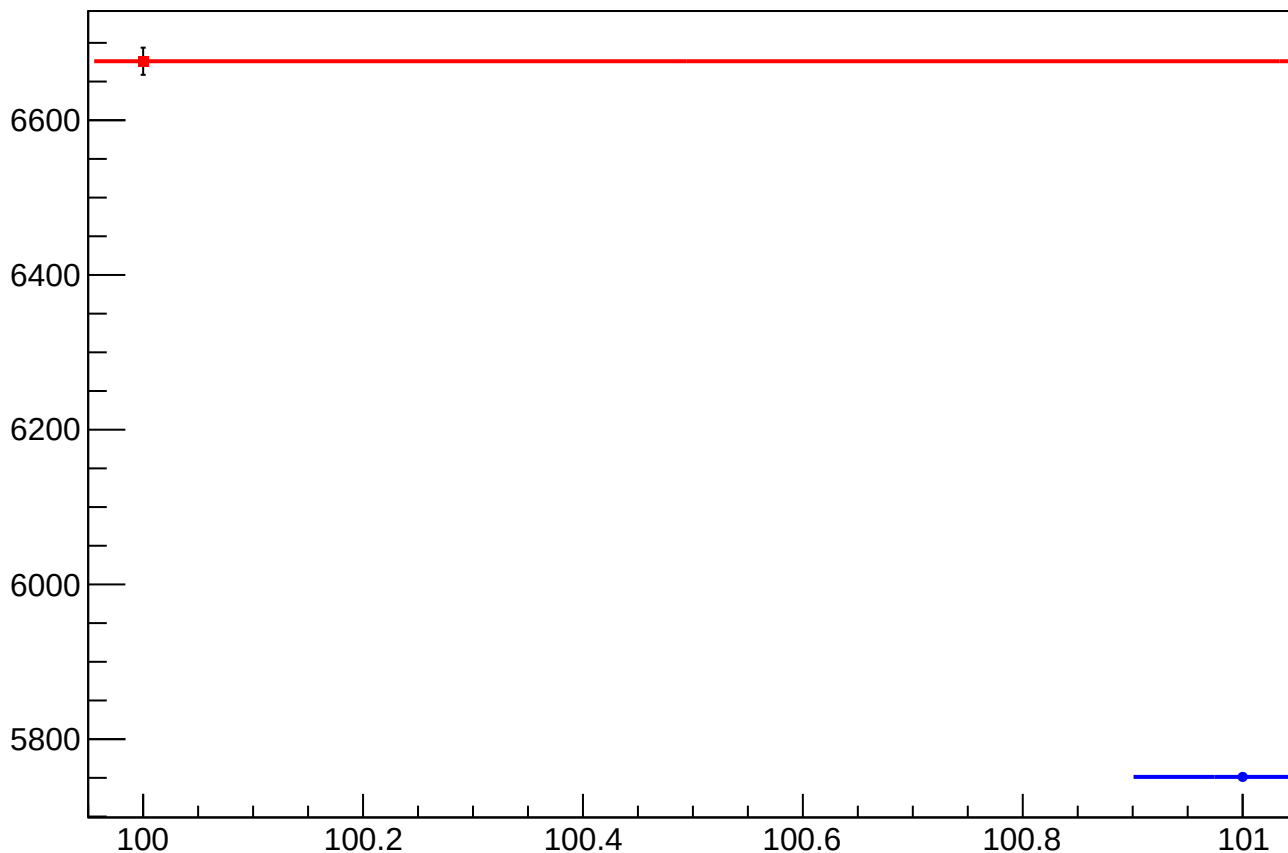
Right: -12164.866+/-6828.667  $\chi^2/\text{NDF}$ : 0.1/1

In: -11519.384+/-7103.153  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12164.866+/-6828.667  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_dit\_asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 5751.211+/-5.023  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6676.239+/-17.539  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

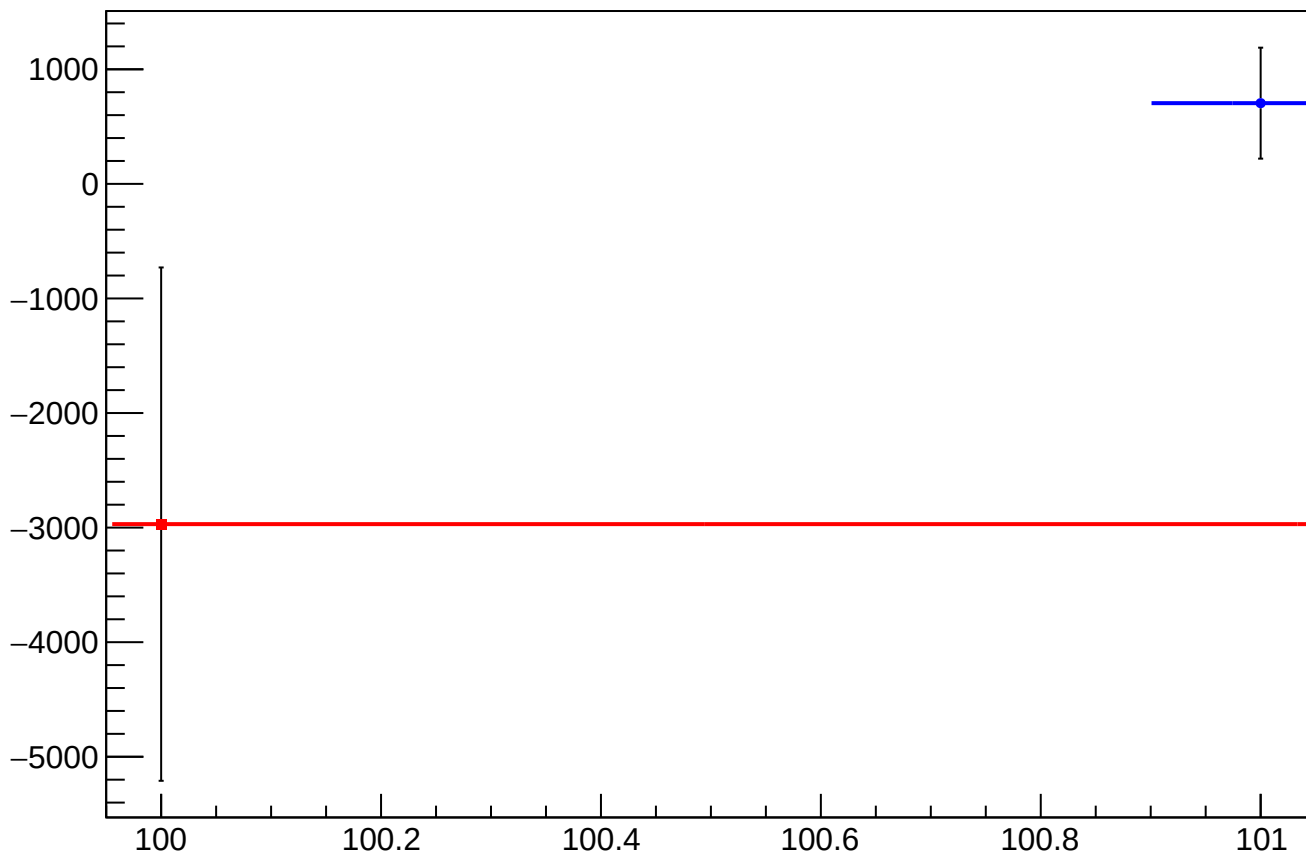
Right: 5821.321+/-4.829  $\chi^2/\text{NDF}$ : 2570.8/1

In: 5751.211+/-5.023  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5821.321+/-4.829  $\chi^2/\text{NDF}$ : 2570.8/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 704.529+/-484.254  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2969.614+/-2240.158  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

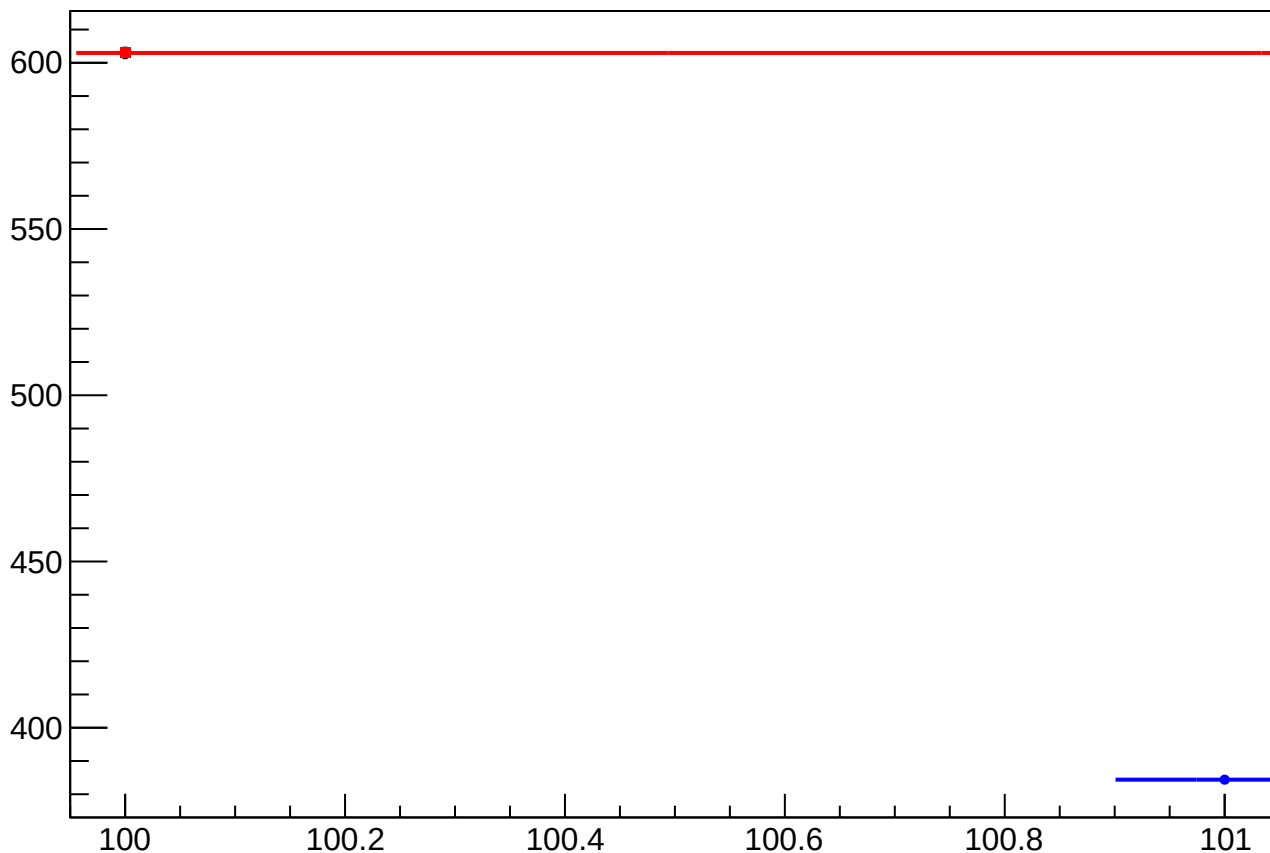
Right: 540.504+/-473.321  $\chi^2/\text{NDF}$ : 2.6/1

In: 704.529+/-484.254  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 540.504+/-473.321  $\chi^2/\text{NDF}$ : 2.6/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 384.383+/-0.342  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 602.966+/-1.584  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

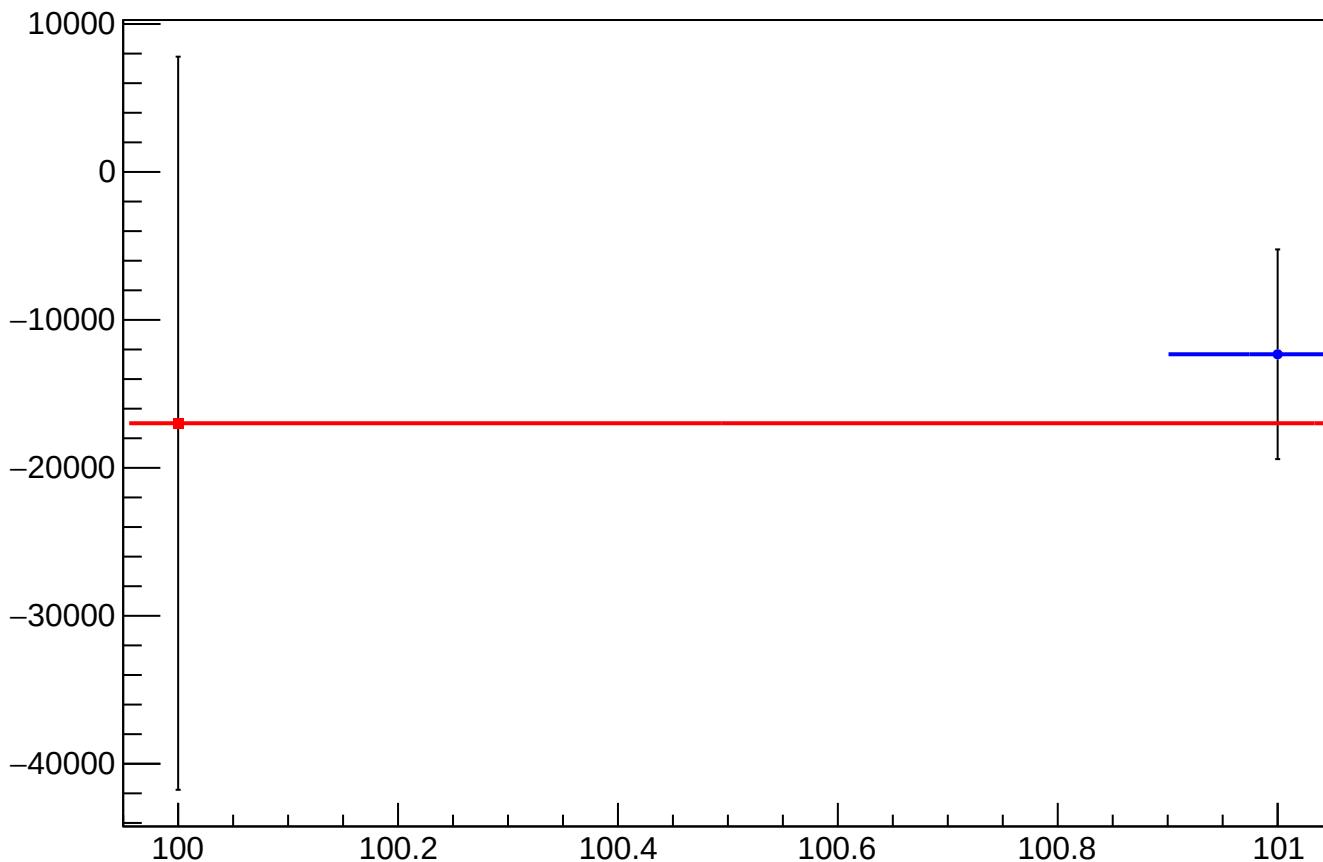
Right: 394.141+/-0.335  $\chi^2/\text{NDF}$ : 18191.6/1

In: 384.383+/-0.342  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 394.141+/-0.335  $\chi^2/\text{NDF}$ : 18191.6/1

asym\_us\_avg\_at1lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -12322.201+/-7087.212  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -16983.937+/-24775.822  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

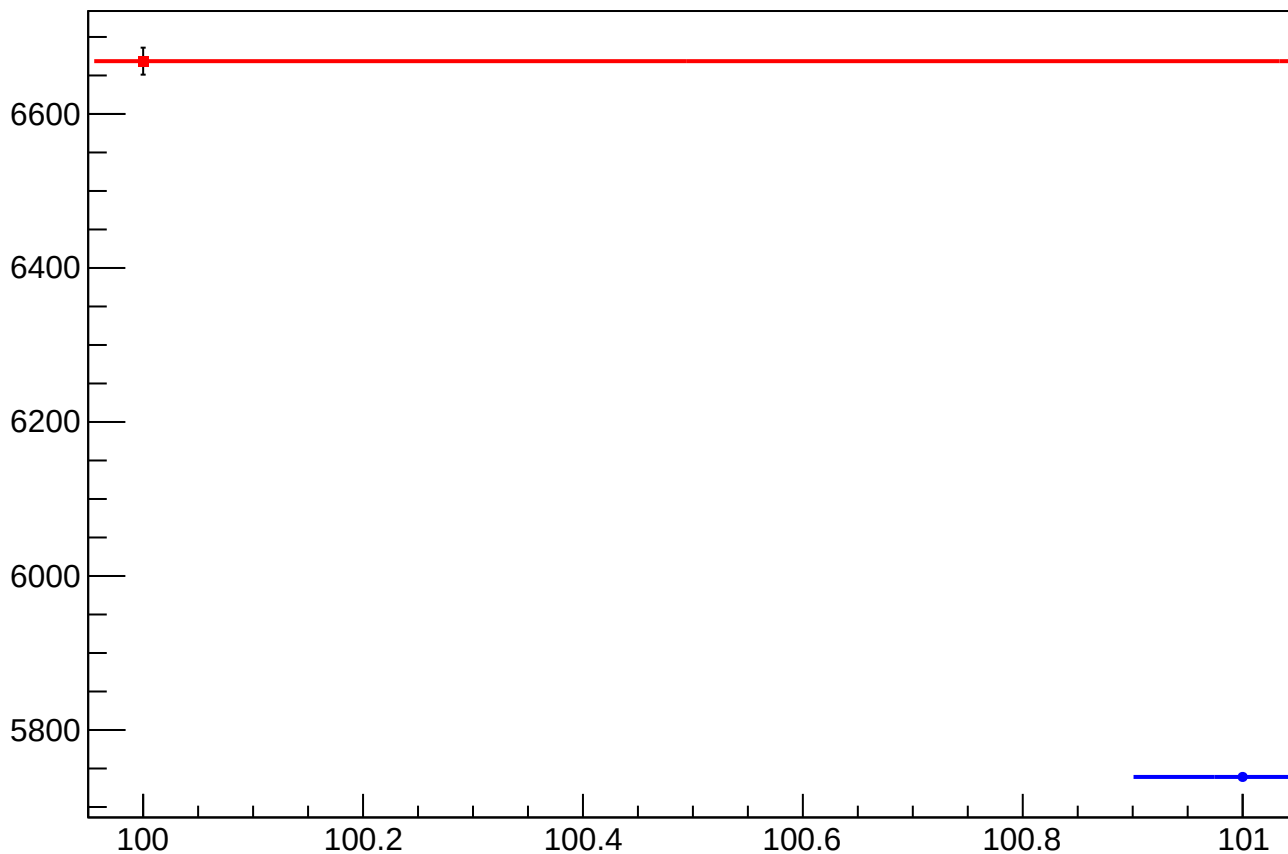
Right: -12674.803+/-6813.913  $\chi^2/\text{NDF}$ : 0.0/1

In: -12322.201+/-7087.212  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12674.803+/-6813.913  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_avg\_at1lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 5739.038 $\pm$ 5.011  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6668.574 $\pm$ 17.519  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

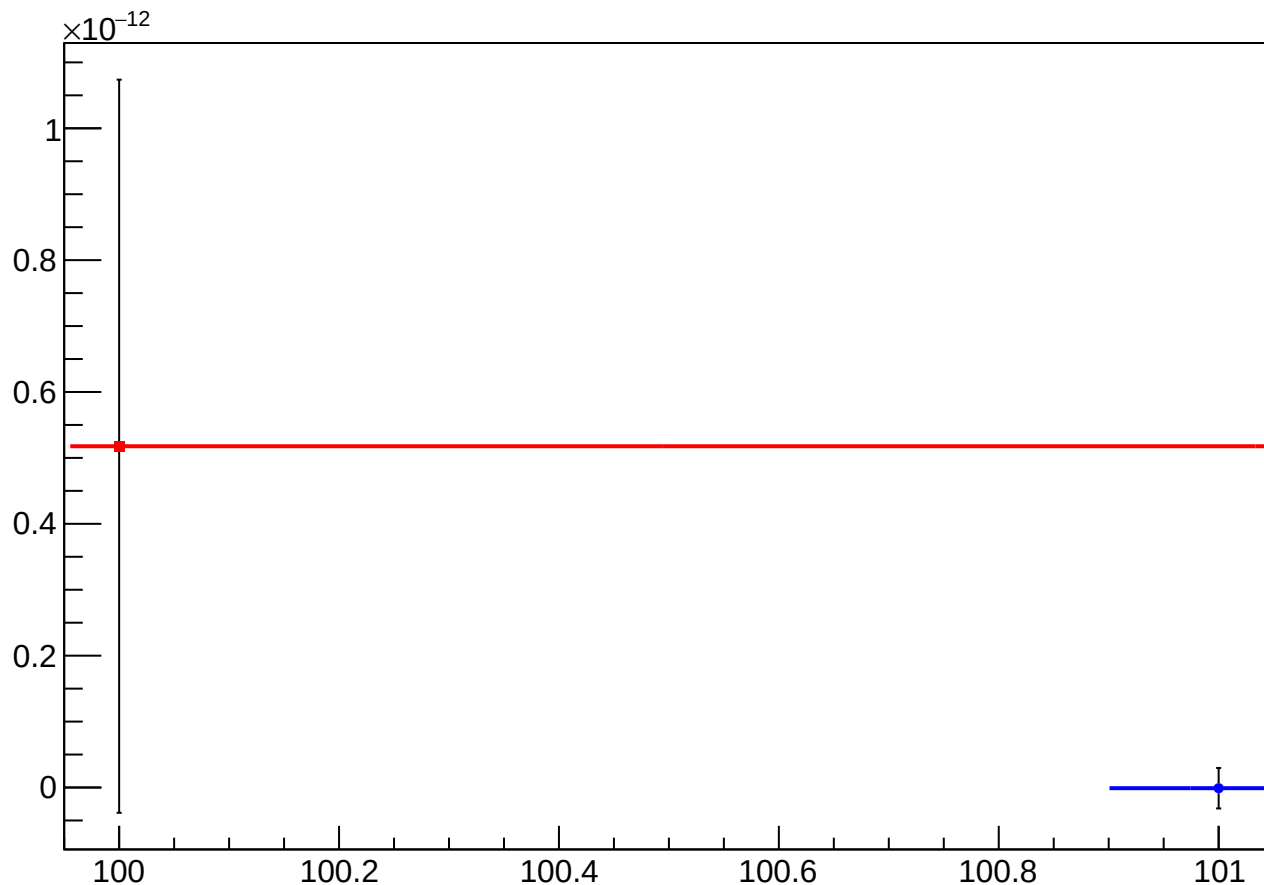
Right: 5809.346 $\pm$ 4.818  $\chi^2$ /NDF: 2602.2/1

In: 5739.038 $\pm$ 5.011  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5809.346 $\pm$ 4.818  $\chi^2$ /NDF: 2602.2/1

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

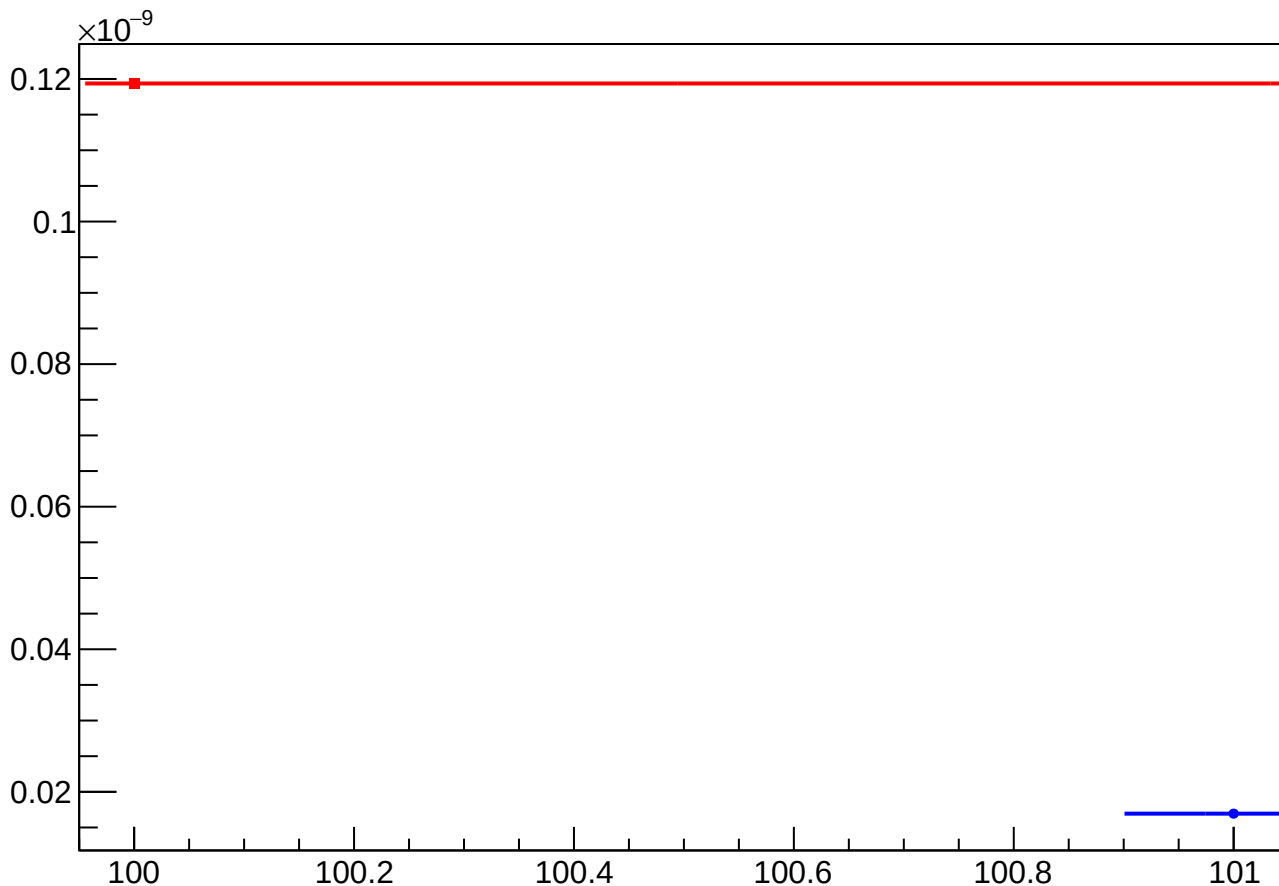
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

asym\_us\_avg\_at1lr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 67656.1/1

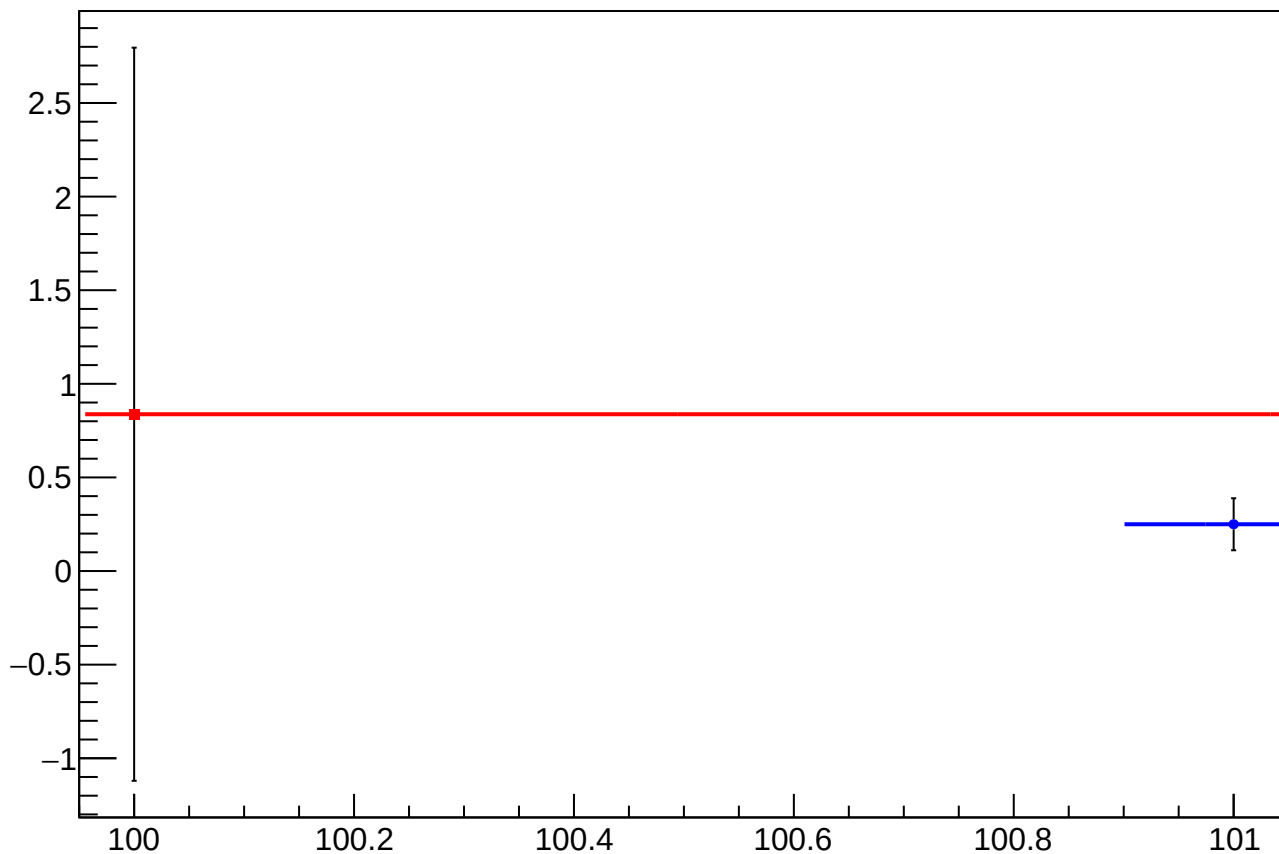
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 67656.1/1



asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.250+/-0.139  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.838+/-1.958  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

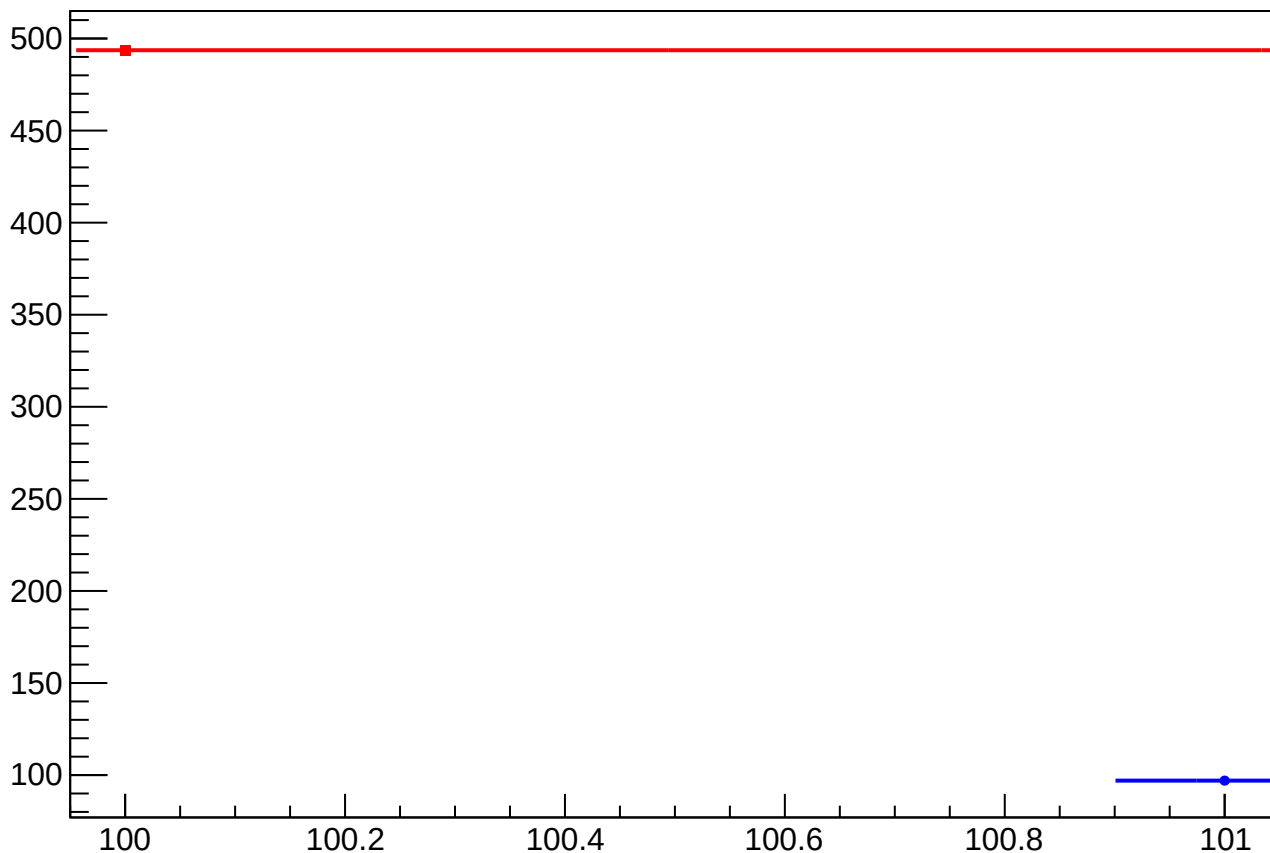
Right: 0.253+/-0.139  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.250+/-0.139  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.253+/-0.139  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 96.999 $\pm$ 0.098  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 493.641 $\pm$ 1.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

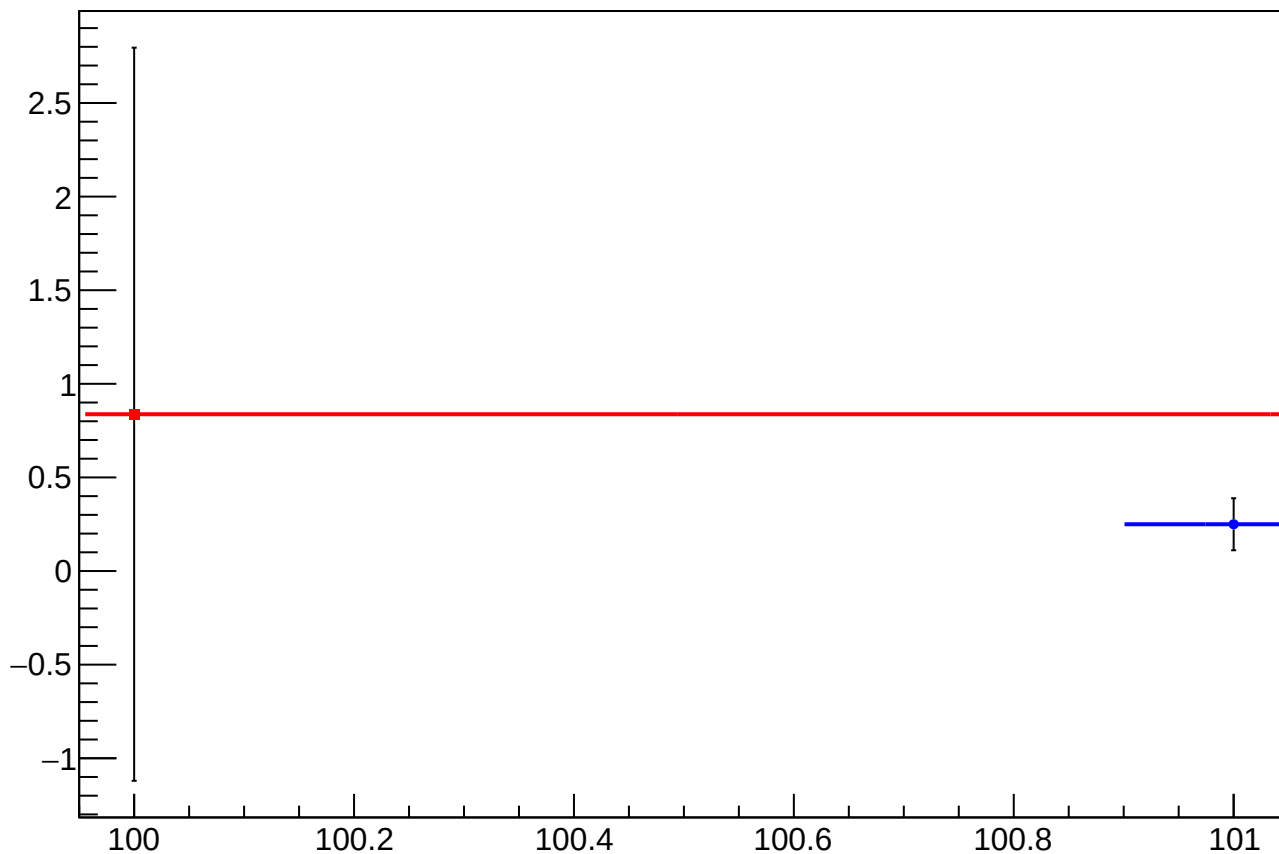
Right: 98.986 $\pm$ 0.098  $\chi^2$ /NDF: 81665.9/1

In: 96.999 $\pm$ 0.098  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 98.986 $\pm$ 0.098  $\chi^2$ /NDF: 81665.9/1

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.250 $\pm$ 0.139  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.838 $\pm$ 1.958  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

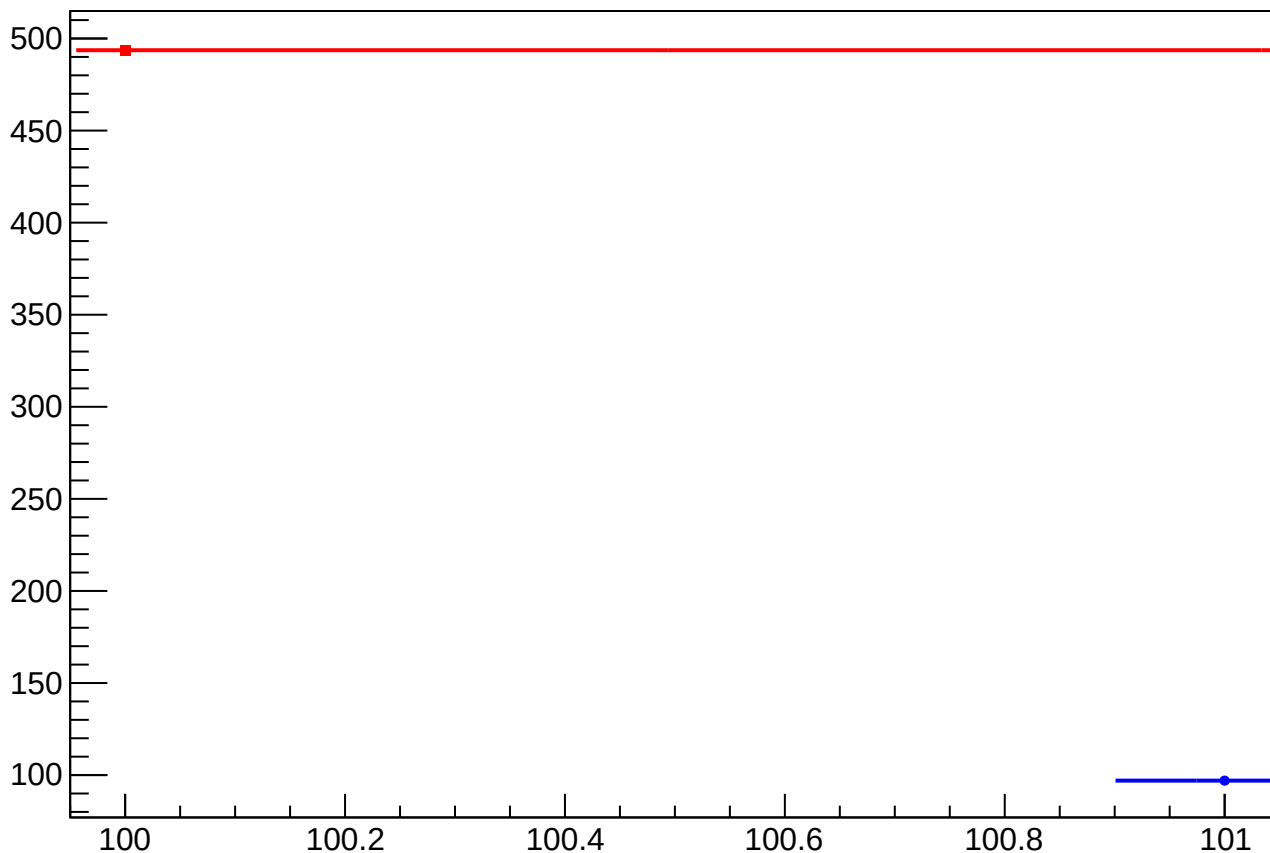
Right: 0.253 $\pm$ 0.139  $\chi^2$ /NDF: 0.1/1

In: 0.250 $\pm$ 0.139  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.253 $\pm$ 0.139  $\chi^2$ /NDF: 0.1/1

asym\_us\_avg\_at1lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 96.999 $\pm$ 0.098  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 493.641 $\pm$ 1.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

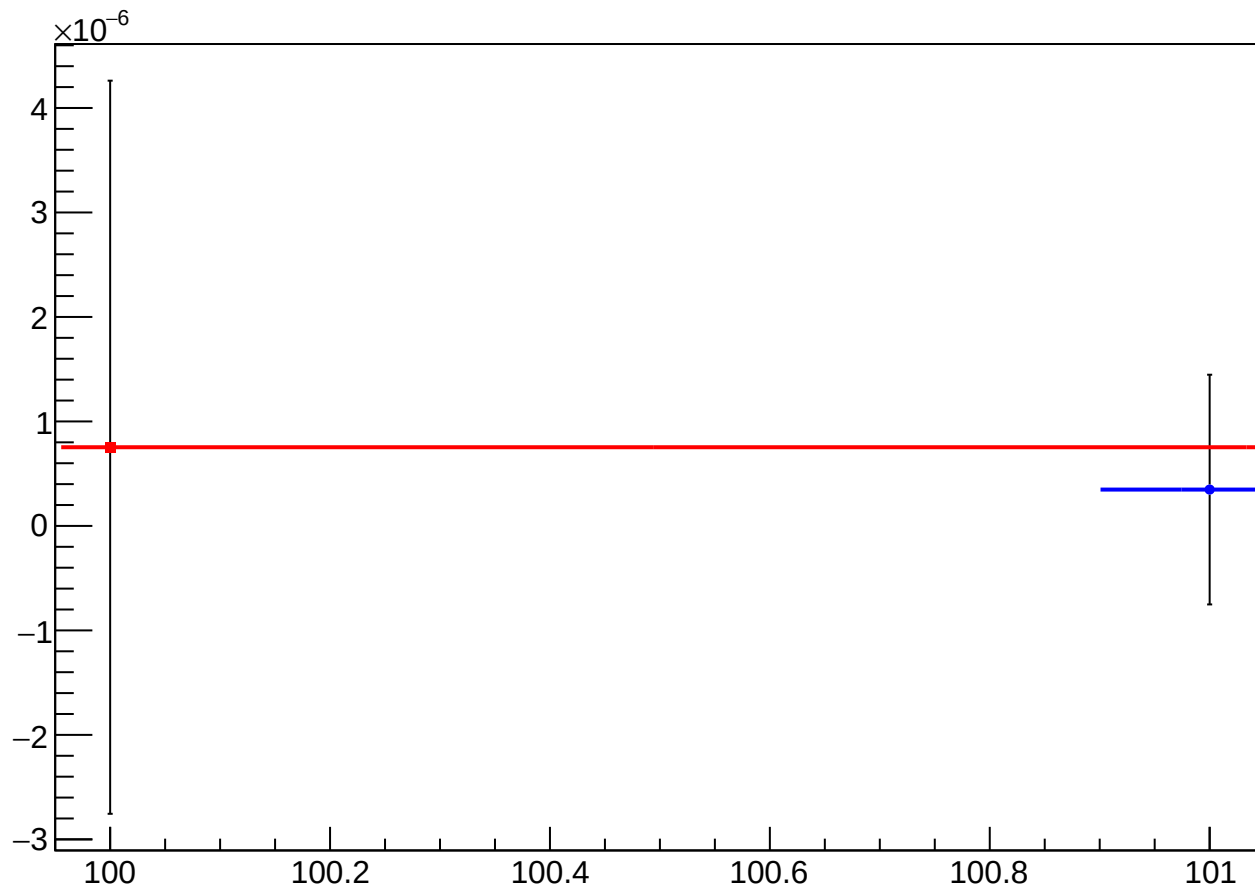
Right: 98.986 $\pm$ 0.098  $\chi^2$ /NDF: 81665.9/1

In: 96.999 $\pm$ 0.098  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 98.986 $\pm$ 0.098  $\chi^2$ /NDF: 81665.9/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

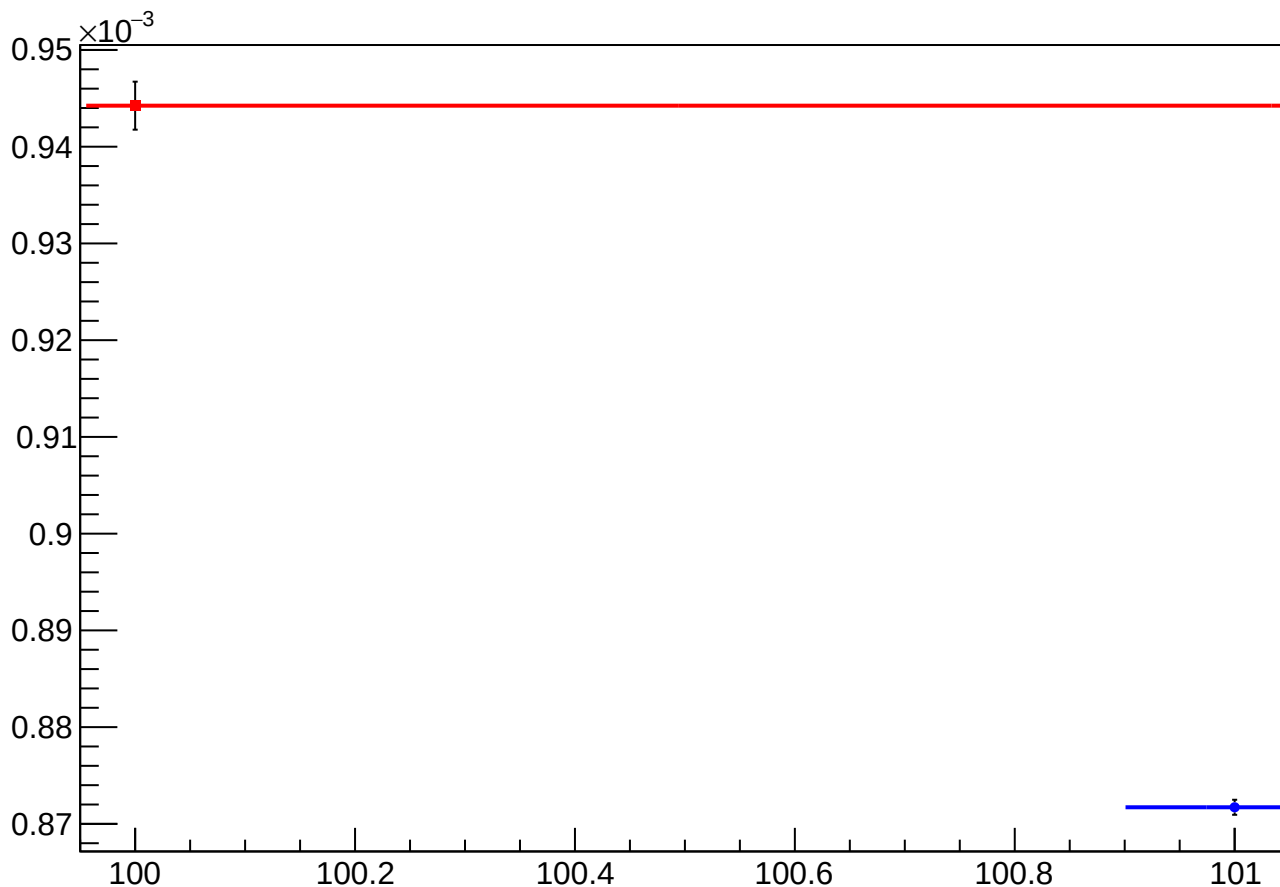
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

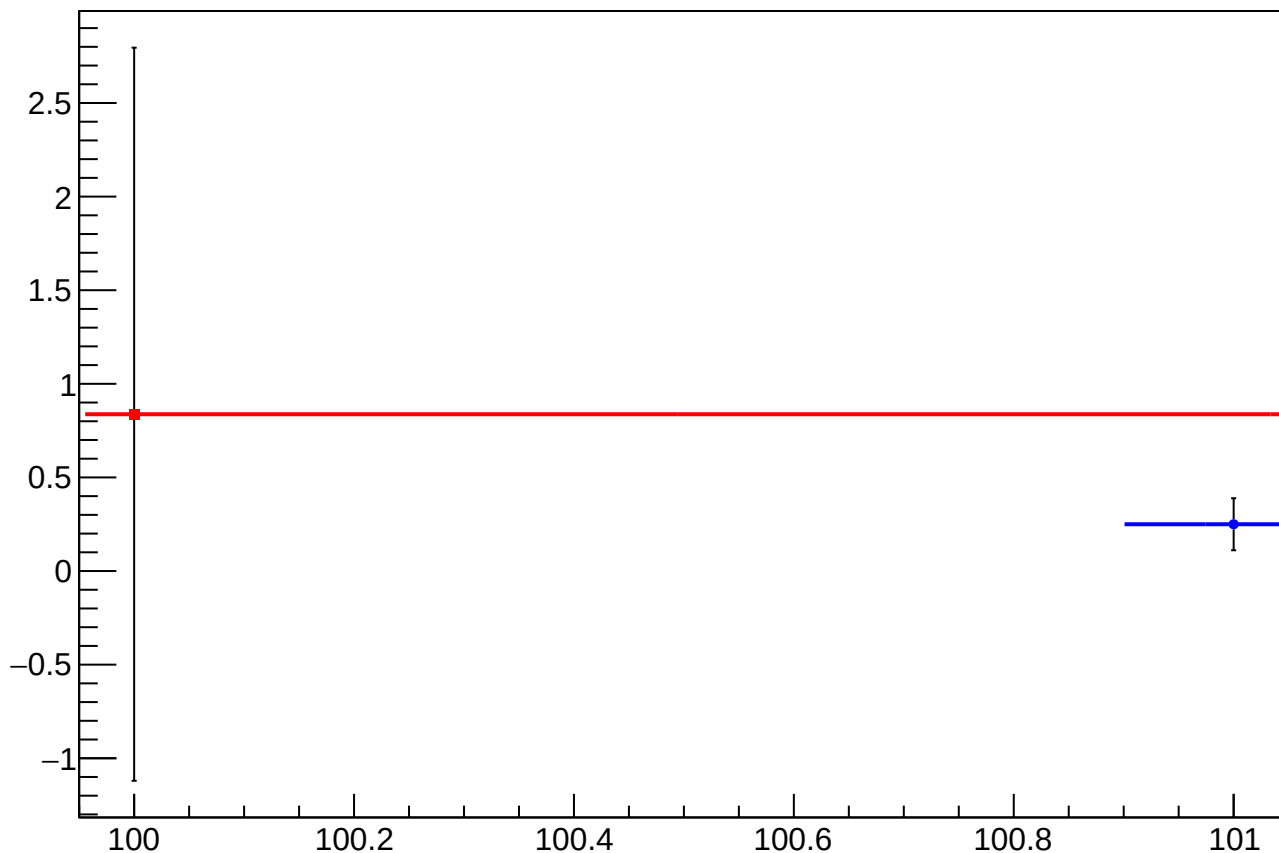
Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 778.3/1

In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 778.3/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.250 $\pm$ 0.139  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.838 $\pm$ 1.958  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

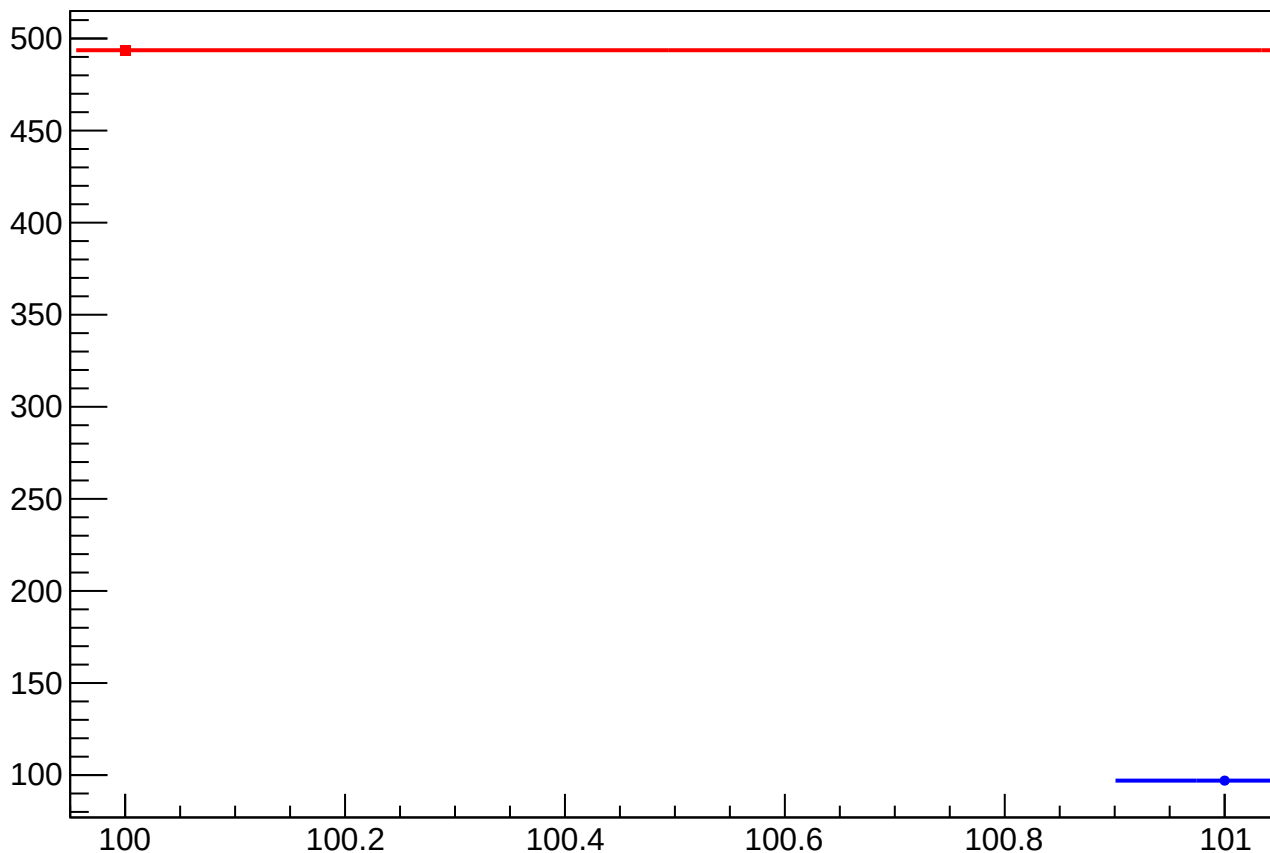
Right: 0.253 $\pm$ 0.139  $\chi^2$ /NDF: 0.1/1

In: 0.250 $\pm$ 0.139  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.253 $\pm$ 0.139  $\chi^2$ /NDF: 0.1/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 96.998 $\pm$ 0.098  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 493.642 $\pm$ 1.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 98.985 $\pm$ 0.098  $\chi^2$ /NDF: 81666.1/1

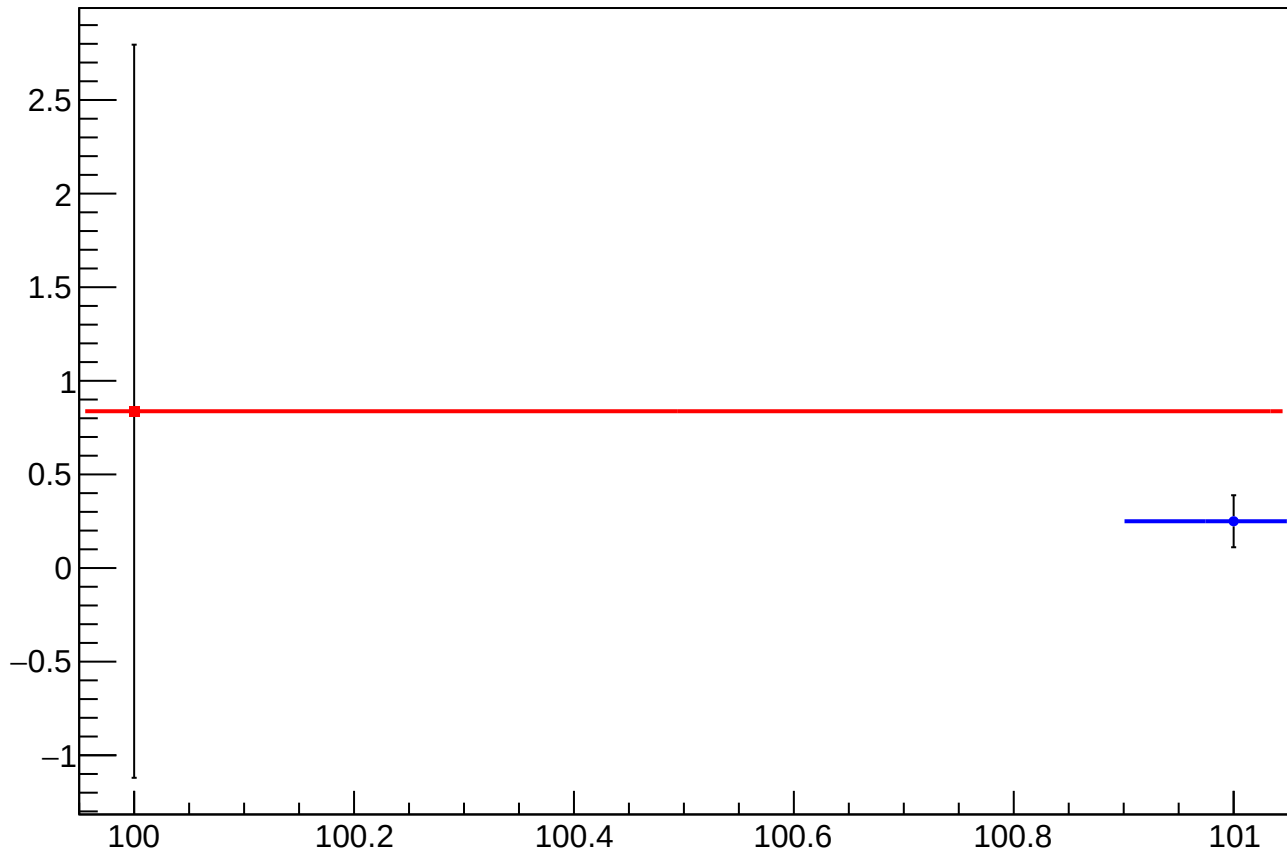
In: 96.998 $\pm$ 0.098  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 98.985 $\pm$ 0.098  $\chi^2$ /NDF: 81666.1/1



asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.250 $\pm$ 0.139  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.838 $\pm$ 1.958  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

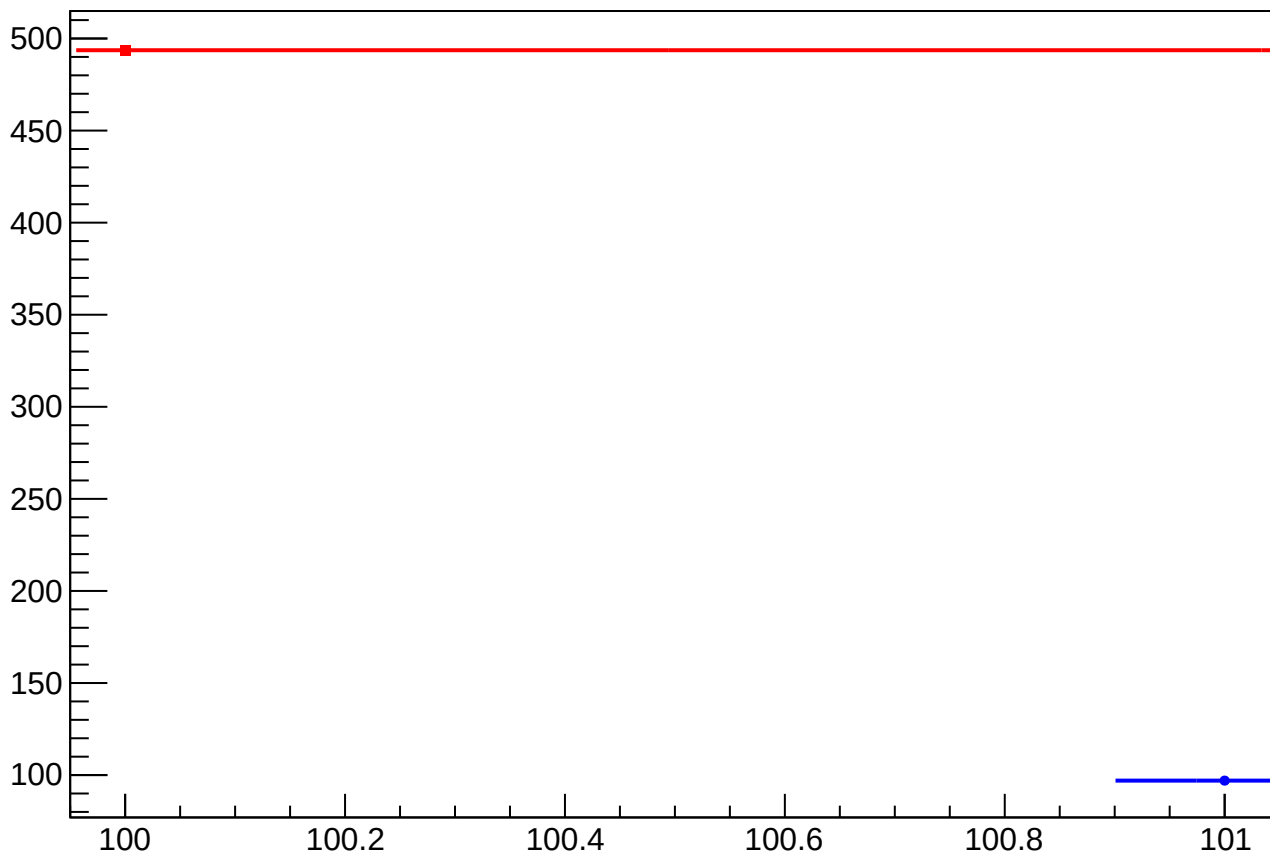
Right: 0.253 $\pm$ 0.139  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.250 $\pm$ 0.139  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.253 $\pm$ 0.139  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 96.998 $\pm$ 0.098  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 493.642 $\pm$ 1.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

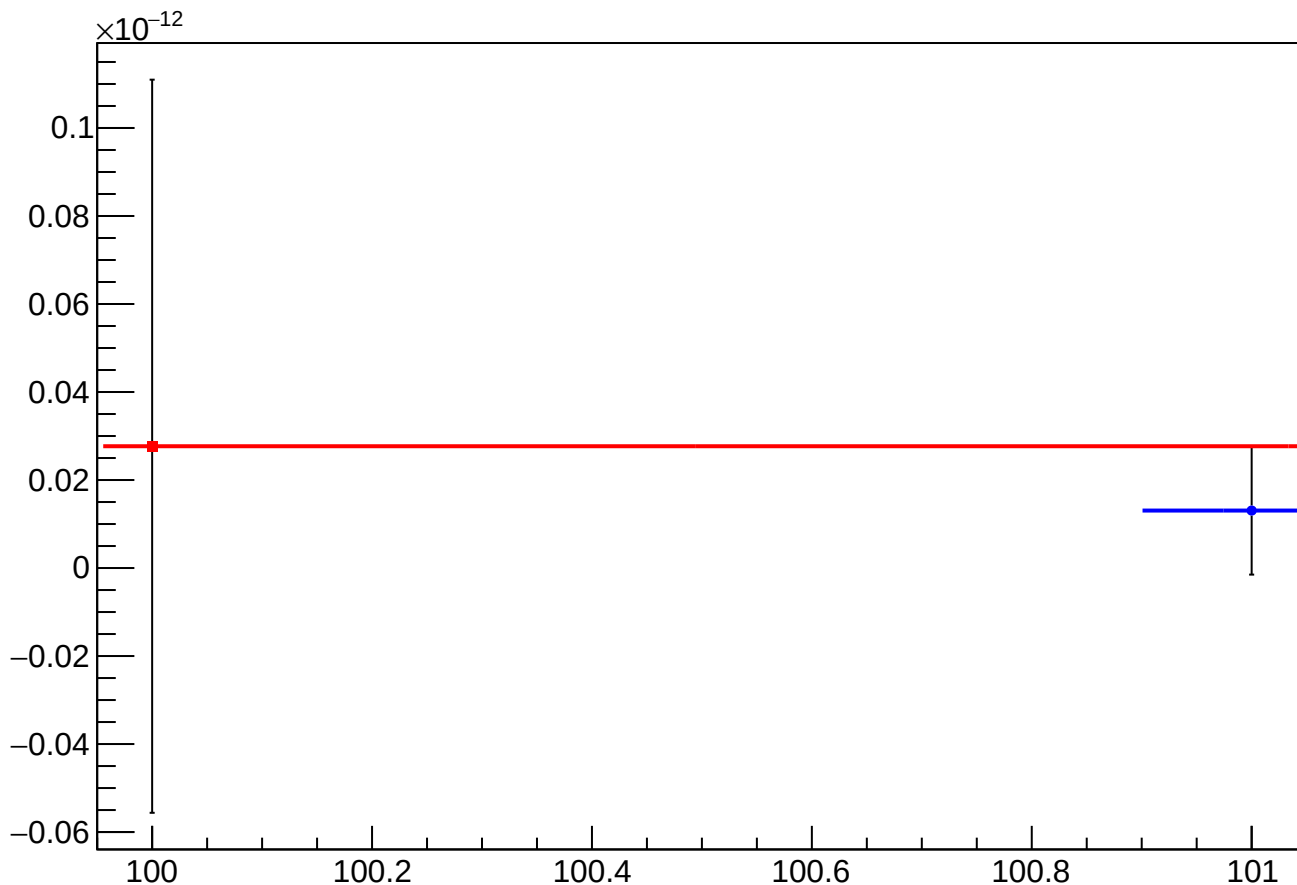
Right: 98.985 $\pm$ 0.098  $\chi^2$ /NDF: 81666.1/1

In: 96.998 $\pm$ 0.098  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 98.985 $\pm$ 0.098  $\chi^2$ /NDF: 81666.1/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

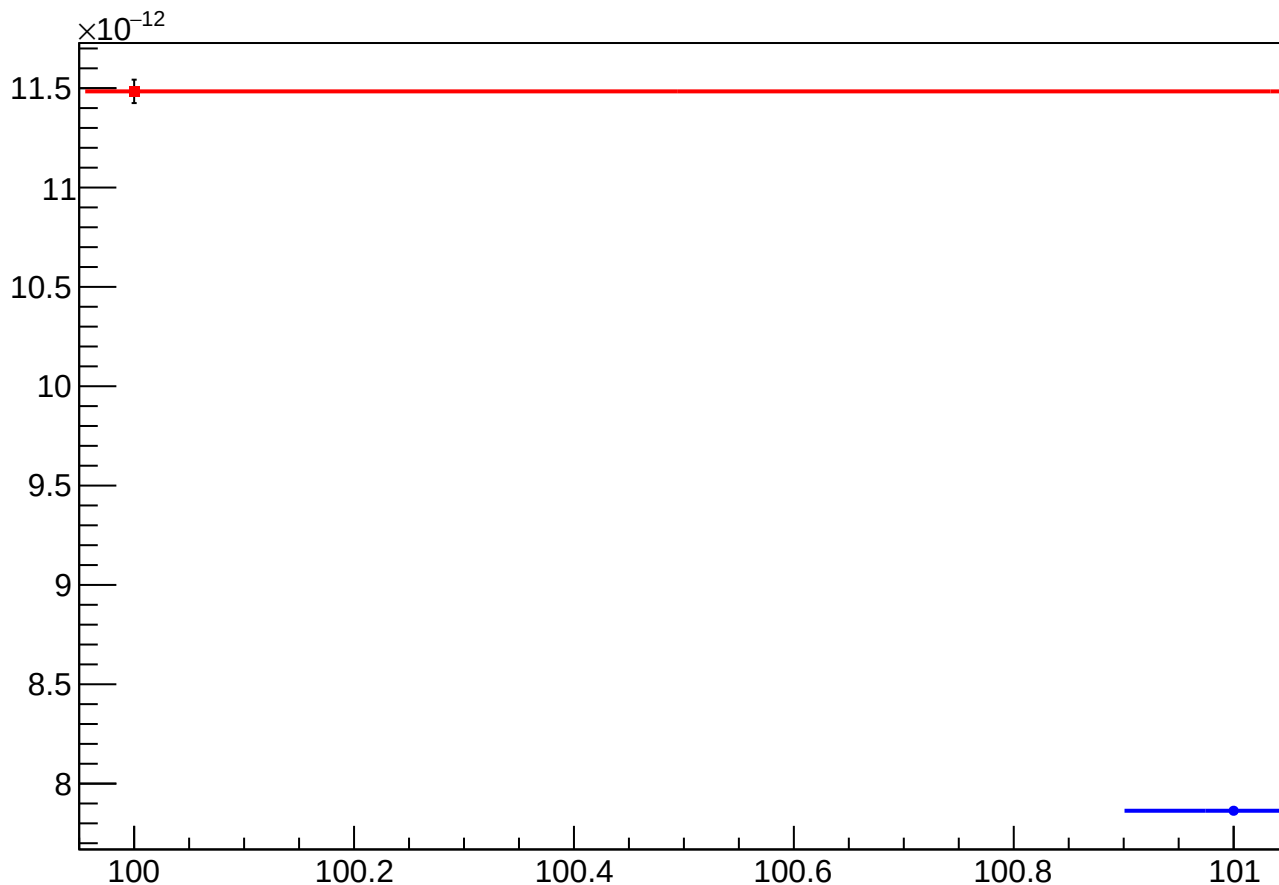
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/1

asym\_us\_avg\_at1lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

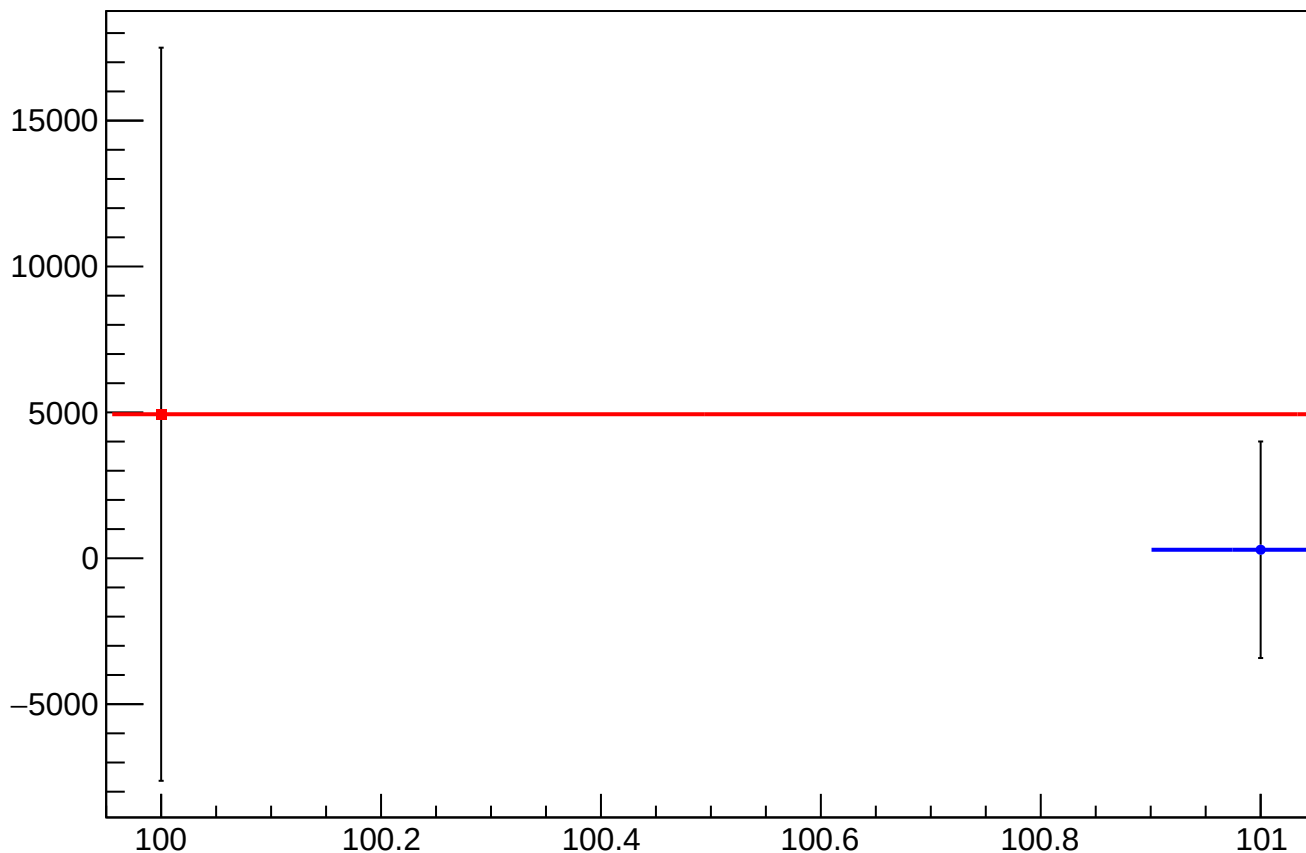
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3666.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3666.1/1

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 291.830+/-3710.891  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4936.616+/-12563.247  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

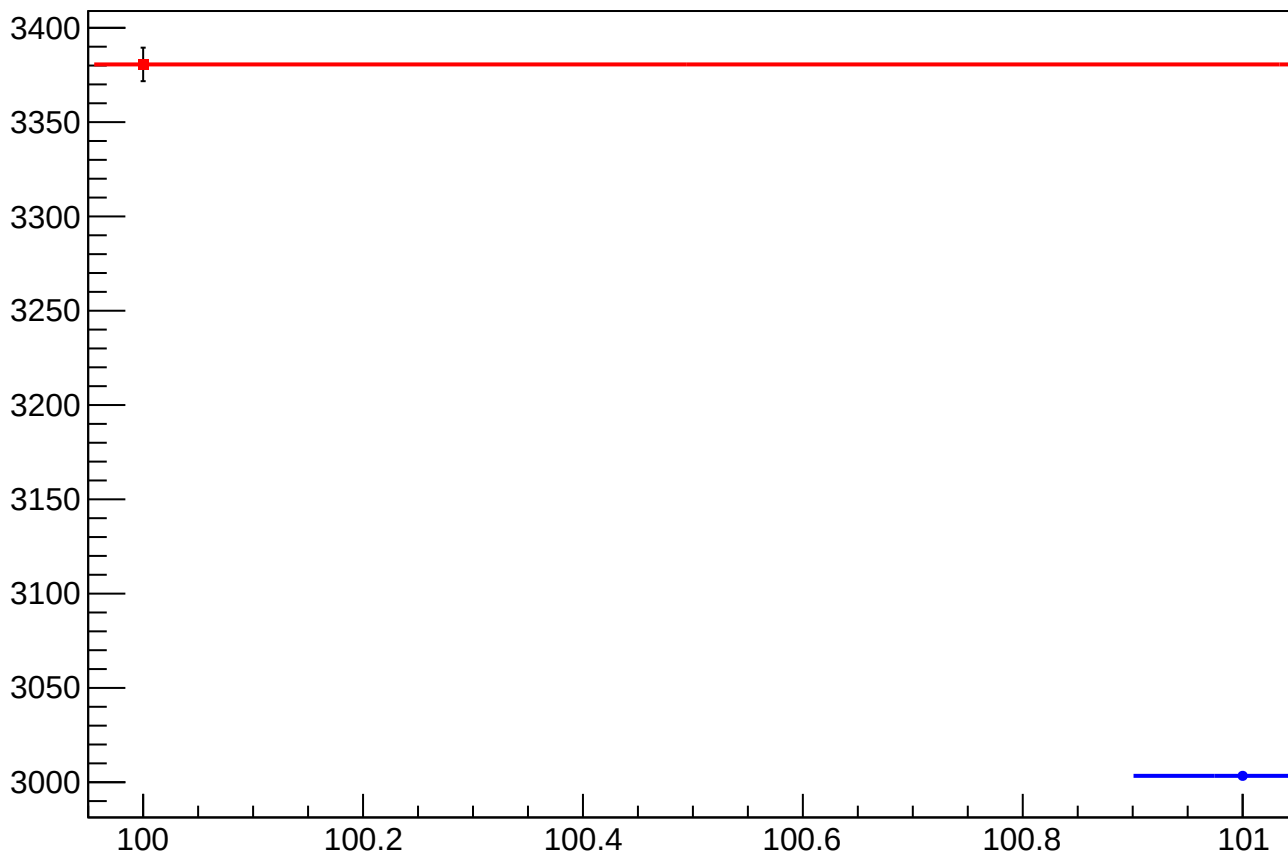
Right: 664.557+/-3558.885  $\chi^2/\text{NDF}$ : 0.1/1

In: 291.830+/-3710.891  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 664.557+/-3558.885  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3003.381+/-2.624  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3380.597+/-8.884  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

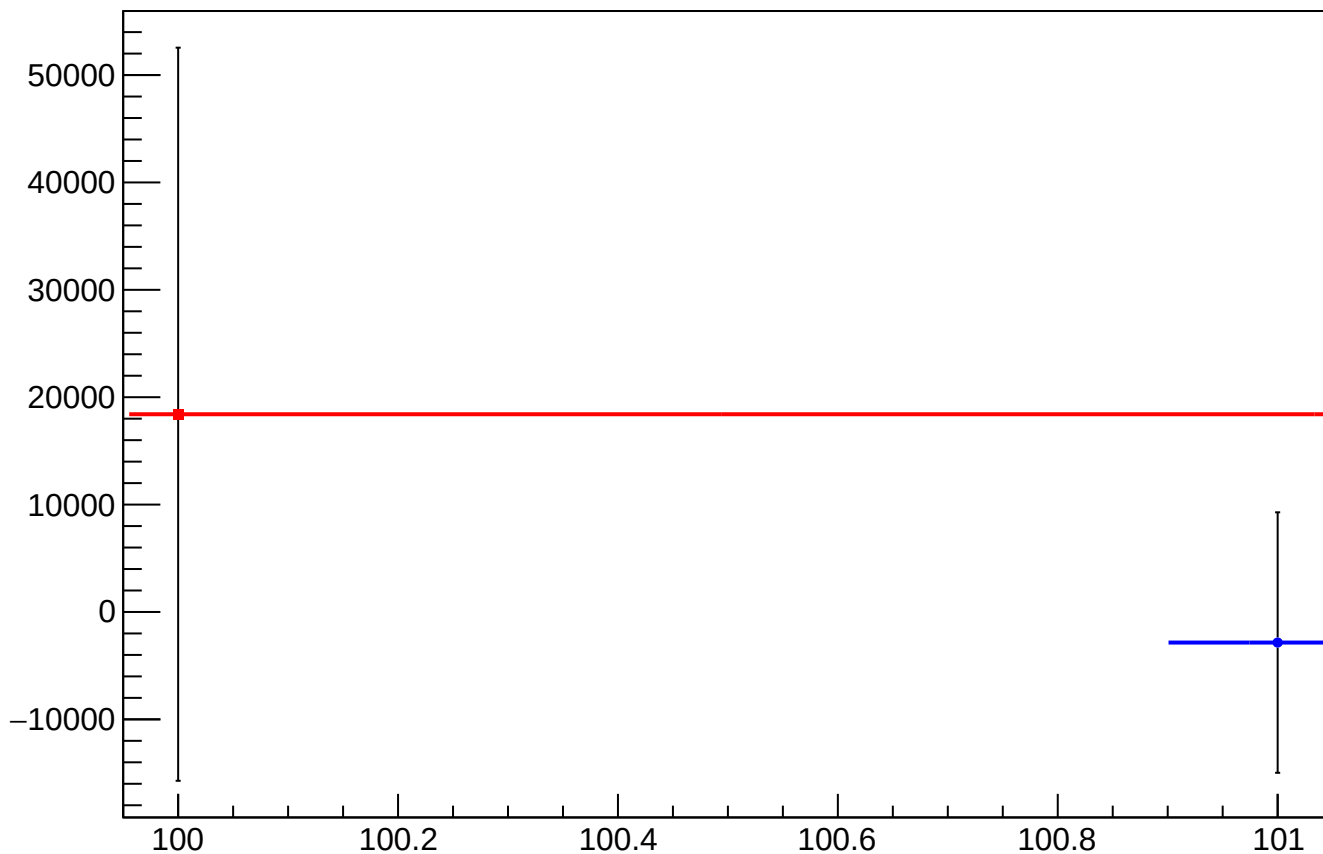
Right: 3033.651+/-2.517  $\chi^2/\text{NDF}$ : 1658.4/1

In: 3003.381+/-2.624  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3033.651+/-2.517  $\chi^2/\text{NDF}$ : 1658.4/1

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -2848.143+/-12129.137  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18414.355+/-34136.274  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

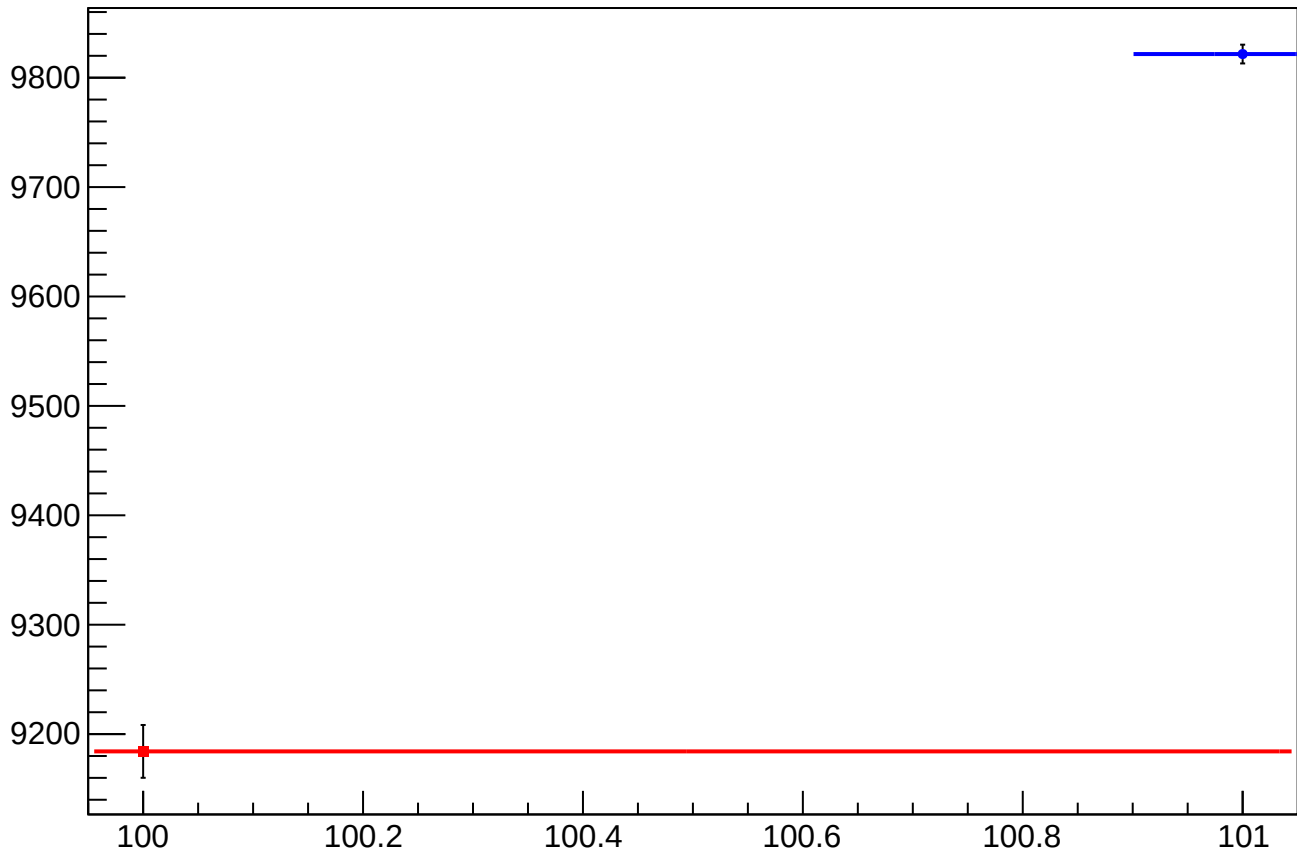
Right: -464.685+/-11429.118  $\chi^2/\text{NDF}$ : 0.3/1

In: -2848.143+/-12129.137  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -464.685+/-11429.118  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 9821.601 $\pm$ 8.577  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9184.204 $\pm$ 24.138  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 9750.151 $\pm$ 8.082  $\chi^2/\text{NDF}$ : 619.1/1

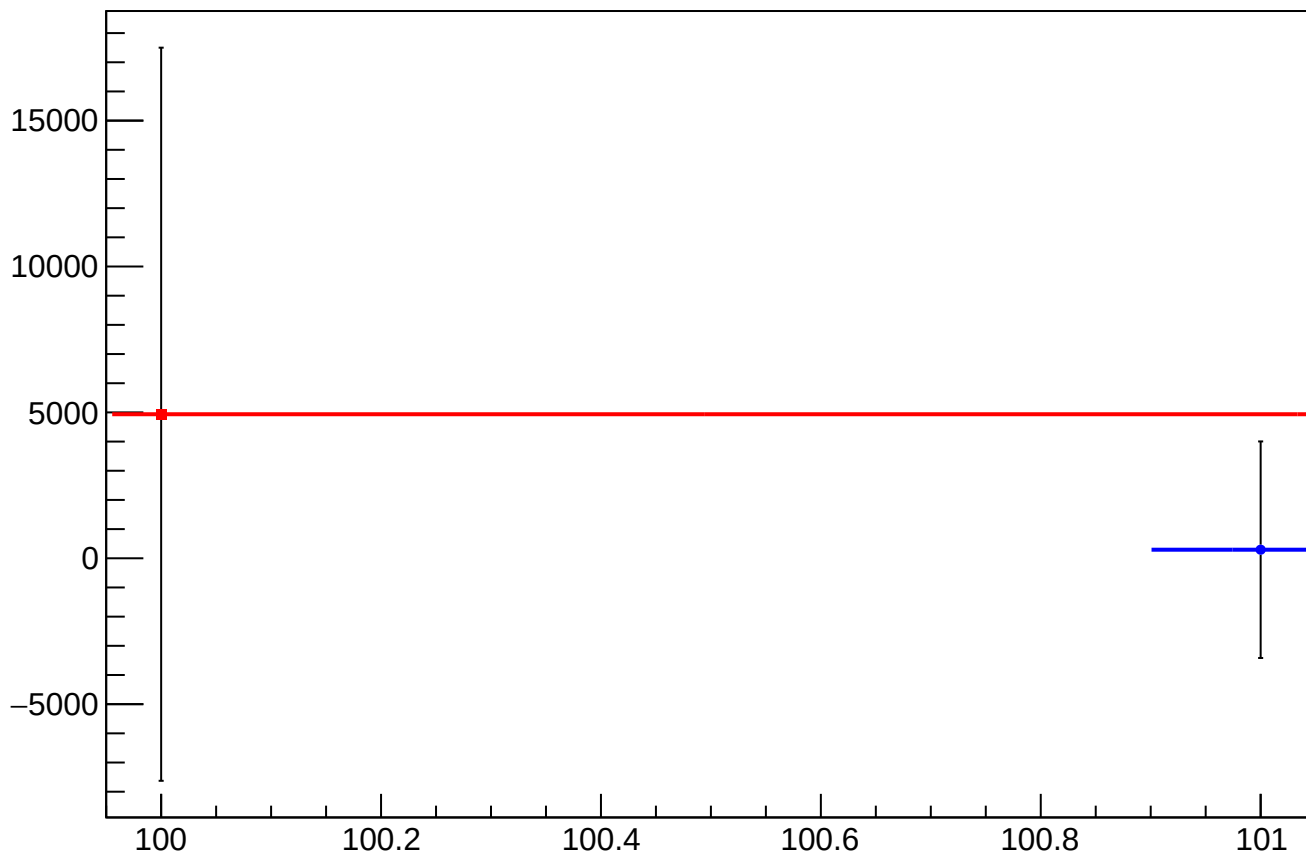
In: 9821.601 $\pm$ 8.577  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9750.151 $\pm$ 8.082  $\chi^2/\text{NDF}$ : 619.1/1



cor\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 293.948+/-3710.894  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4937.050+/-12563.248  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

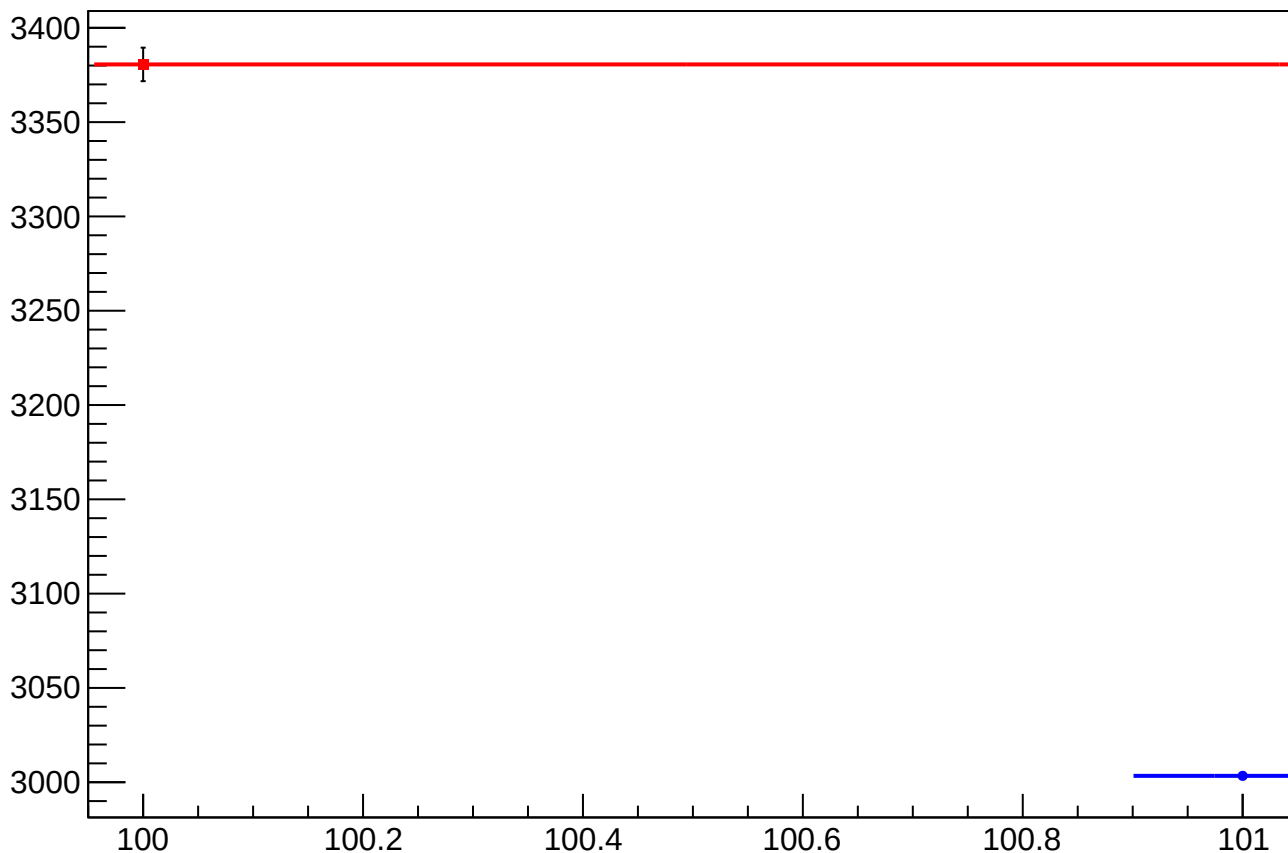
Right: 666.539+/-3558.888  $\chi^2/\text{NDF}$ : 0.1/1

In: 293.948+/-3710.894  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 666.539+/-3558.888  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3003.382 $\pm$ 2.624  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3380.597 $\pm$ 8.884  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

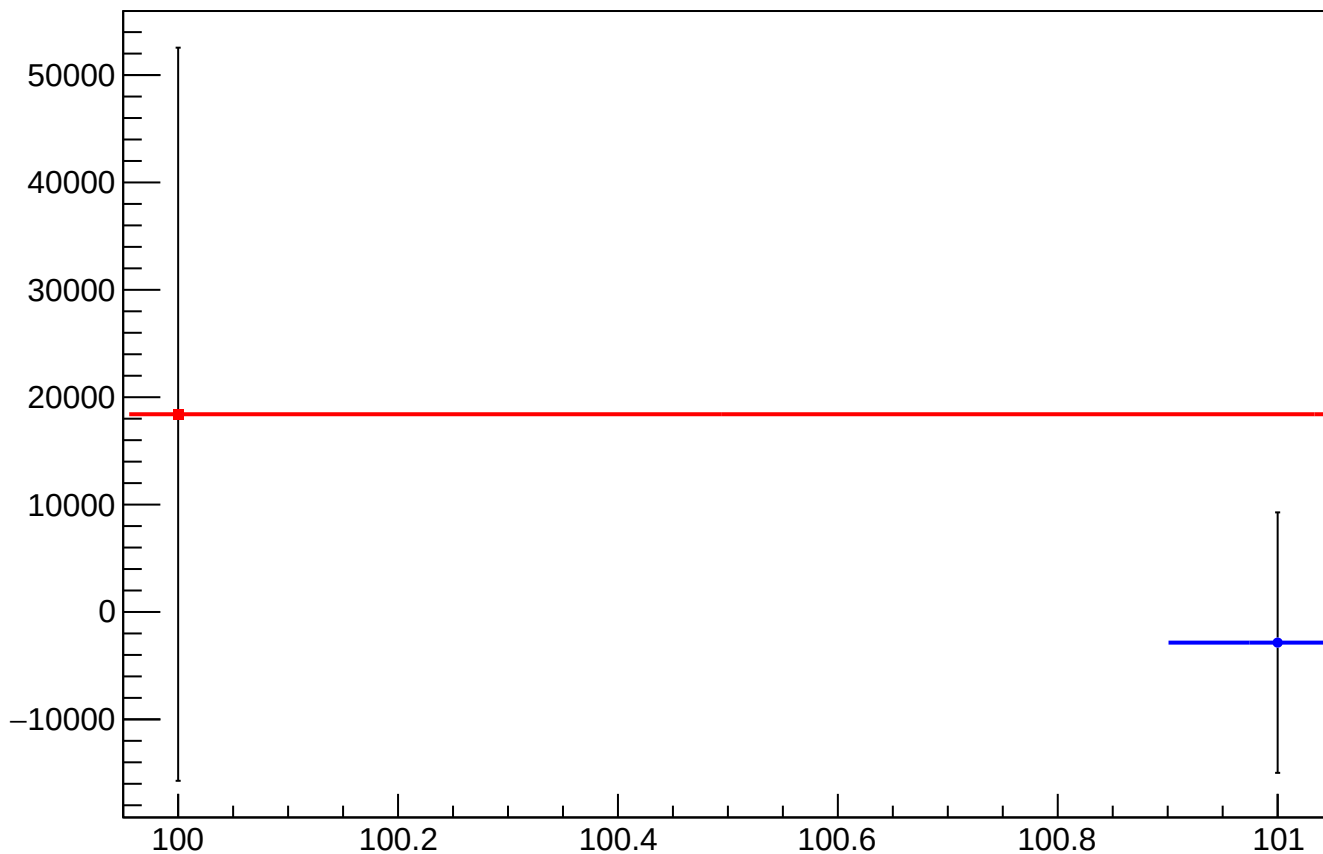
Right: 3033.652 $\pm$ 2.517  $\chi^2$ /NDF: 1658.4/1

In: 3003.382 $\pm$ 2.624  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3033.652 $\pm$ 2.517  $\chi^2$ /NDF: 1658.4/1

asym\_us\_avg\_at2lr\_avg\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2853.529+/-12128.111  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18414.842+/-34136.250  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

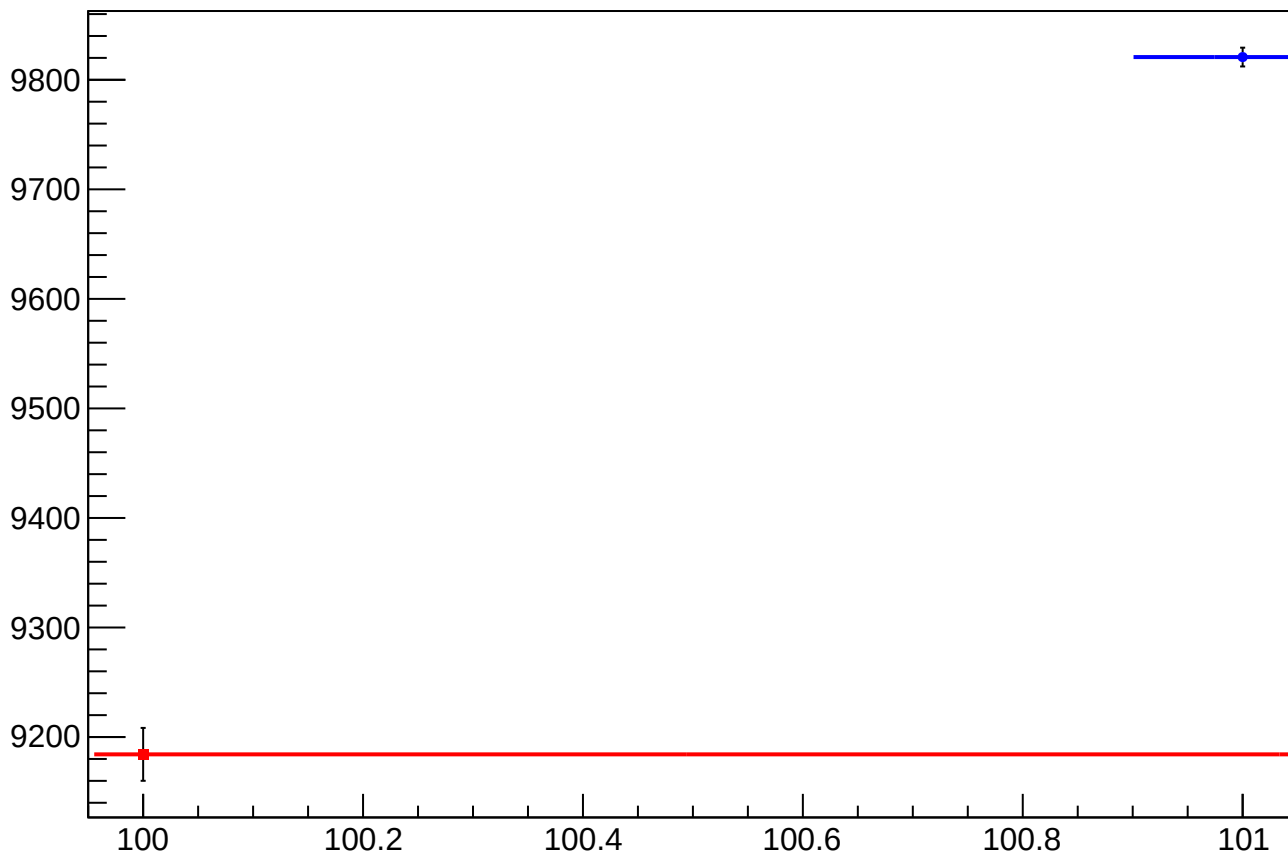
Right: -469.768+/-11428.258  $\chi^2/\text{NDF}$ : 0.3/1

In: -2853.529+/-12128.111  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -469.768+/-11428.258  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_avg\_at2lr\_avg\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 9820.756 $\pm$ 8.576  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9184.198 $\pm$ 24.138  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

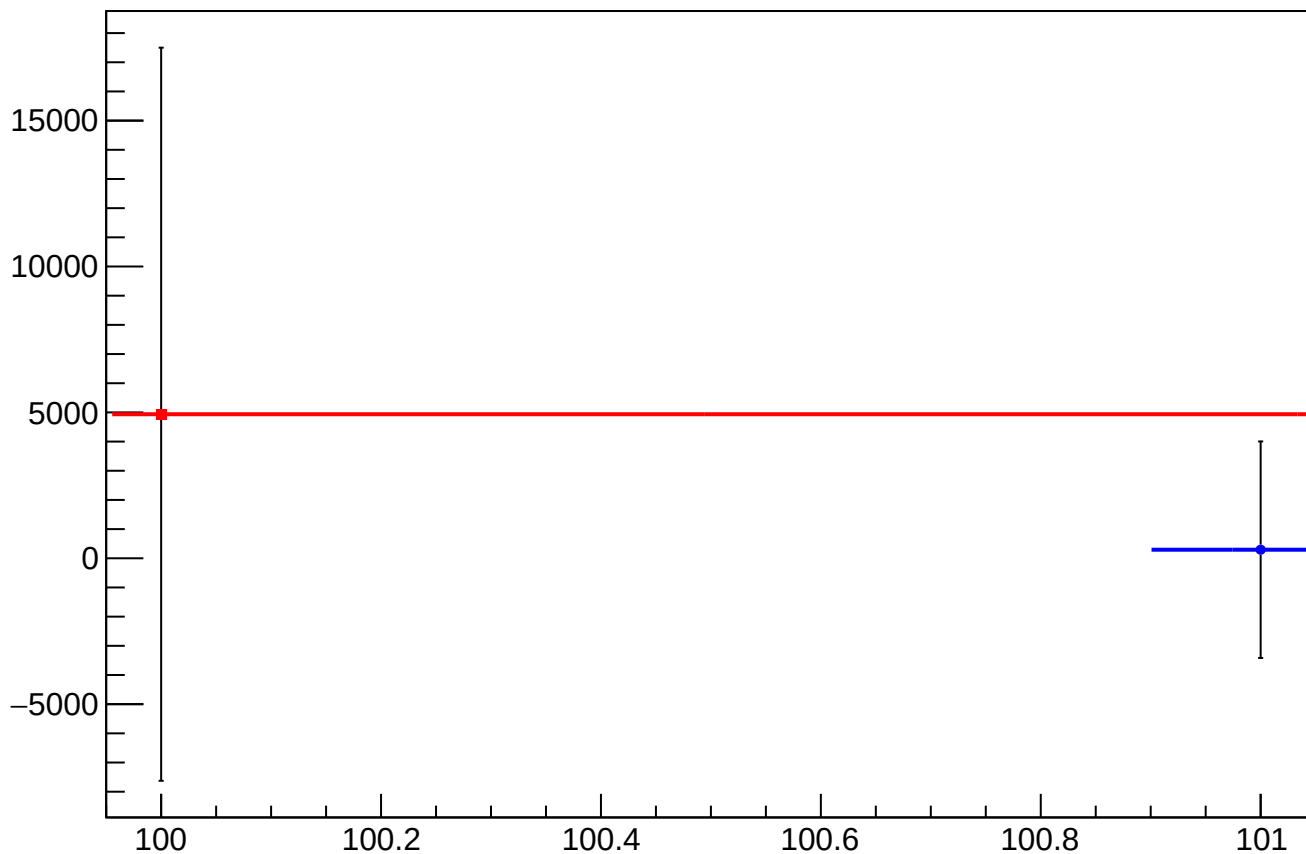
Right: 9749.411 $\pm$ 8.081  $\chi^2$ /NDF: 617.5/1

In: 9820.756 $\pm$ 8.576  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9749.411 $\pm$ 8.081  $\chi^2$ /NDF: 617.5/1

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 293.948+/-3710.894  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4937.050+/-12563.248  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

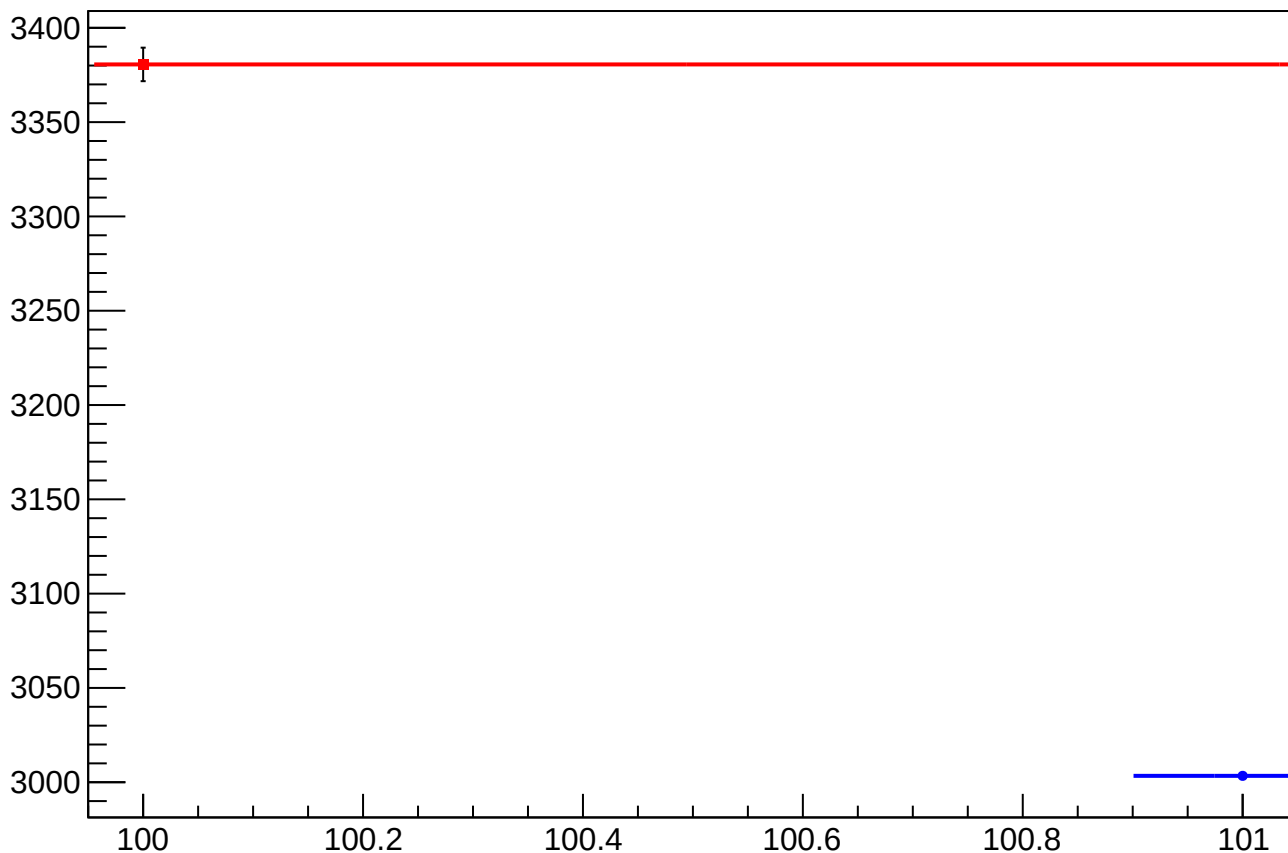
Right: 666.539+/-3558.888  $\chi^2/\text{NDF}$ : 0.1/1

In: 293.948+/-3710.894  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 666.539+/-3558.888  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3003.382 $\pm$ 2.624  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3380.597 $\pm$ 8.884  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

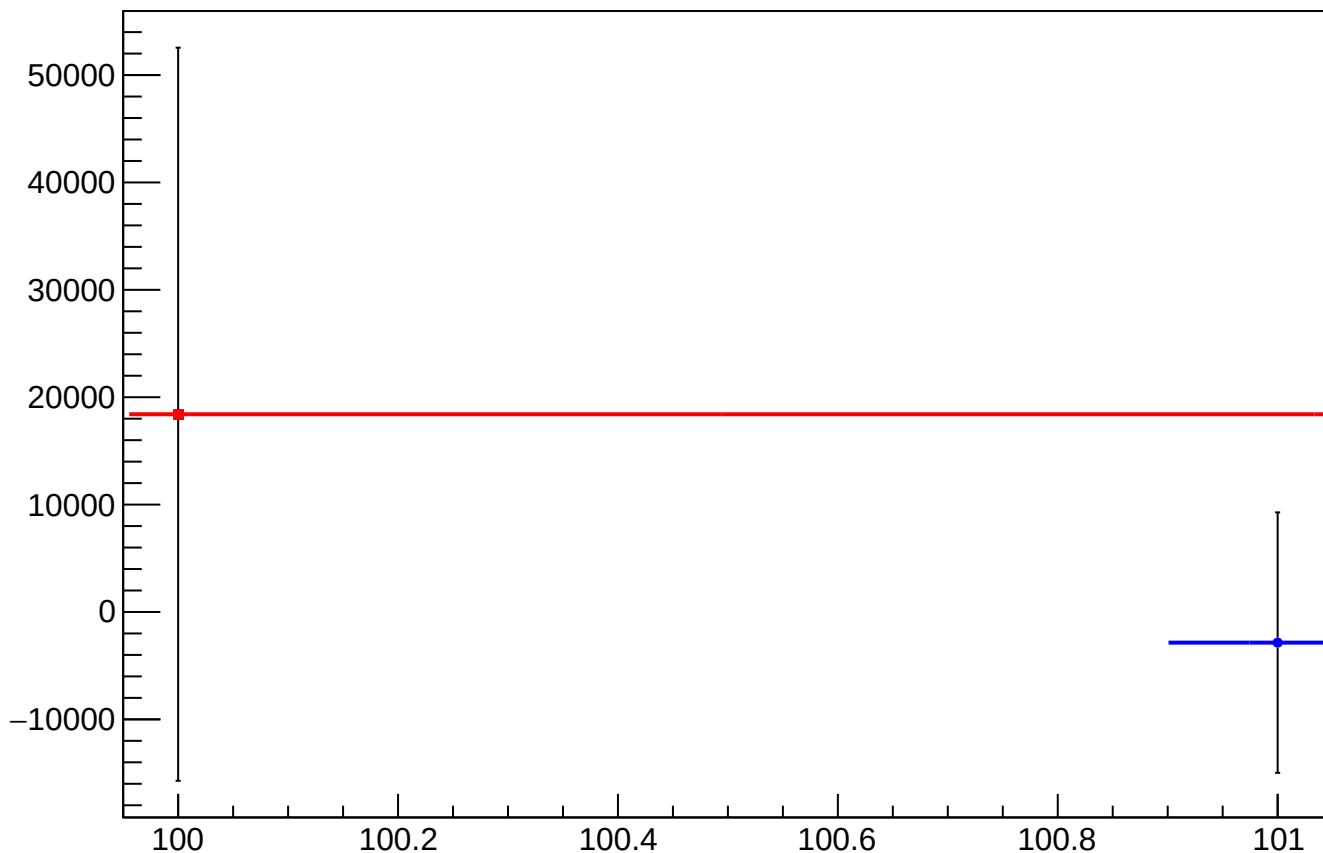
Right: 3033.652 $\pm$ 2.517  $\chi^2$ /NDF: 1658.4/1

In: 3003.382 $\pm$ 2.624  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3033.652 $\pm$ 2.517  $\chi^2$ /NDF: 1658.4/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2853.529+/-12128.111  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18414.842+/-34136.250  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

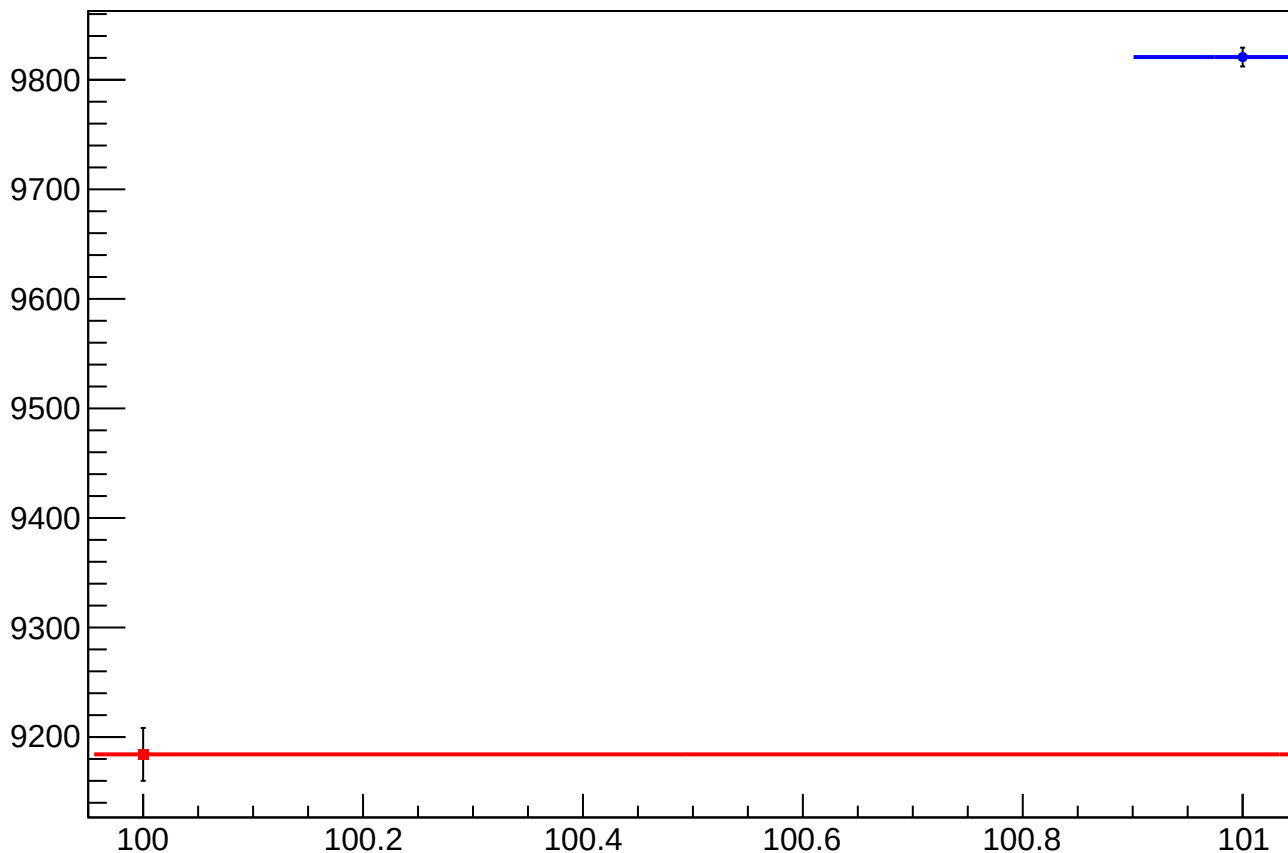
Right: -469.768+/-11428.258  $\chi^2/\text{NDF}$ : 0.3/1

In: -2853.529+/-12128.111  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -469.768+/-11428.258  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 9820.756+/-8.576  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9184.198+/-24.138  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 9749.411+/-8.081  $\chi^2/\text{NDF}$ : 617.5/1

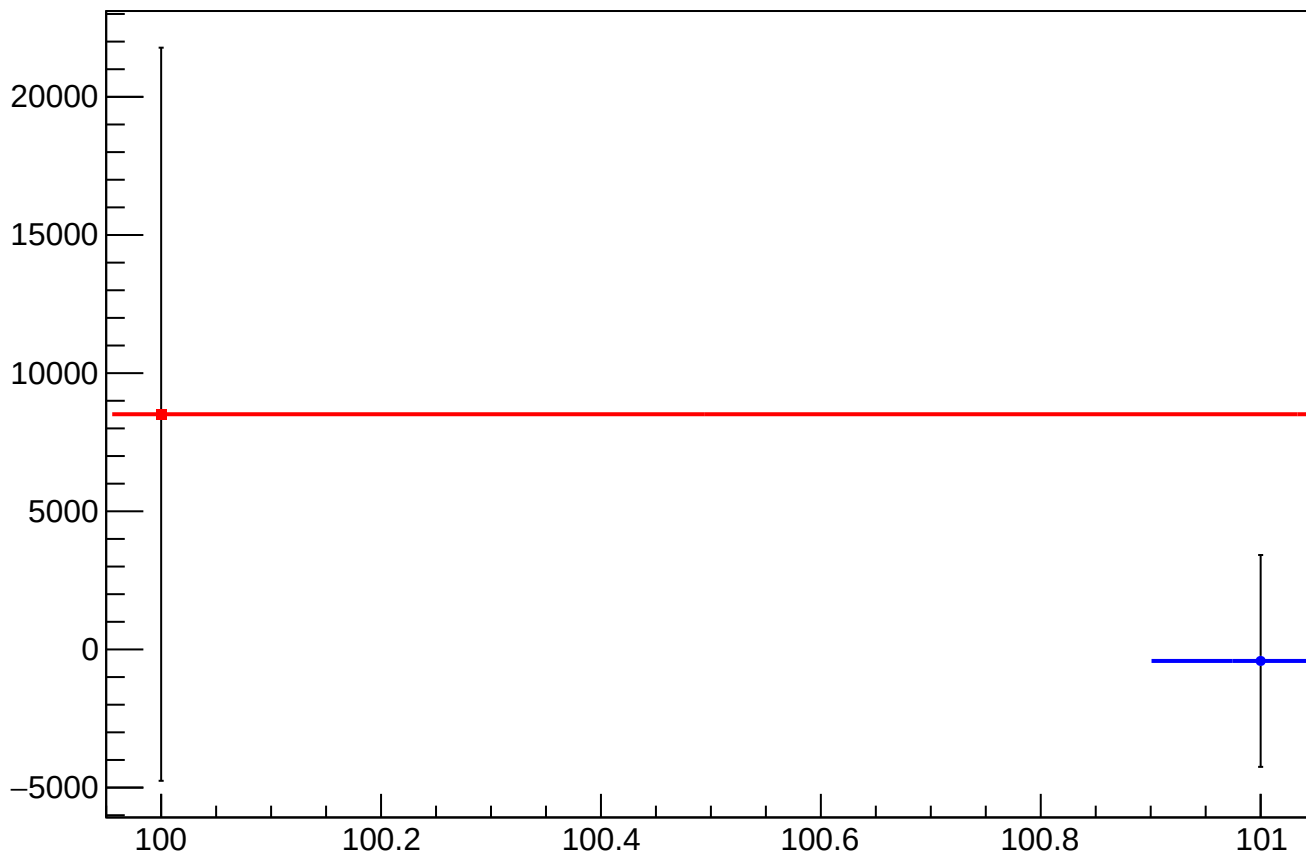
In: 9820.756+/-8.576  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9749.411+/-8.081  $\chi^2/\text{NDF}$ : 617.5/1



dit\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: -416.234+/-3833.847  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8512.965+/-13267.184  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

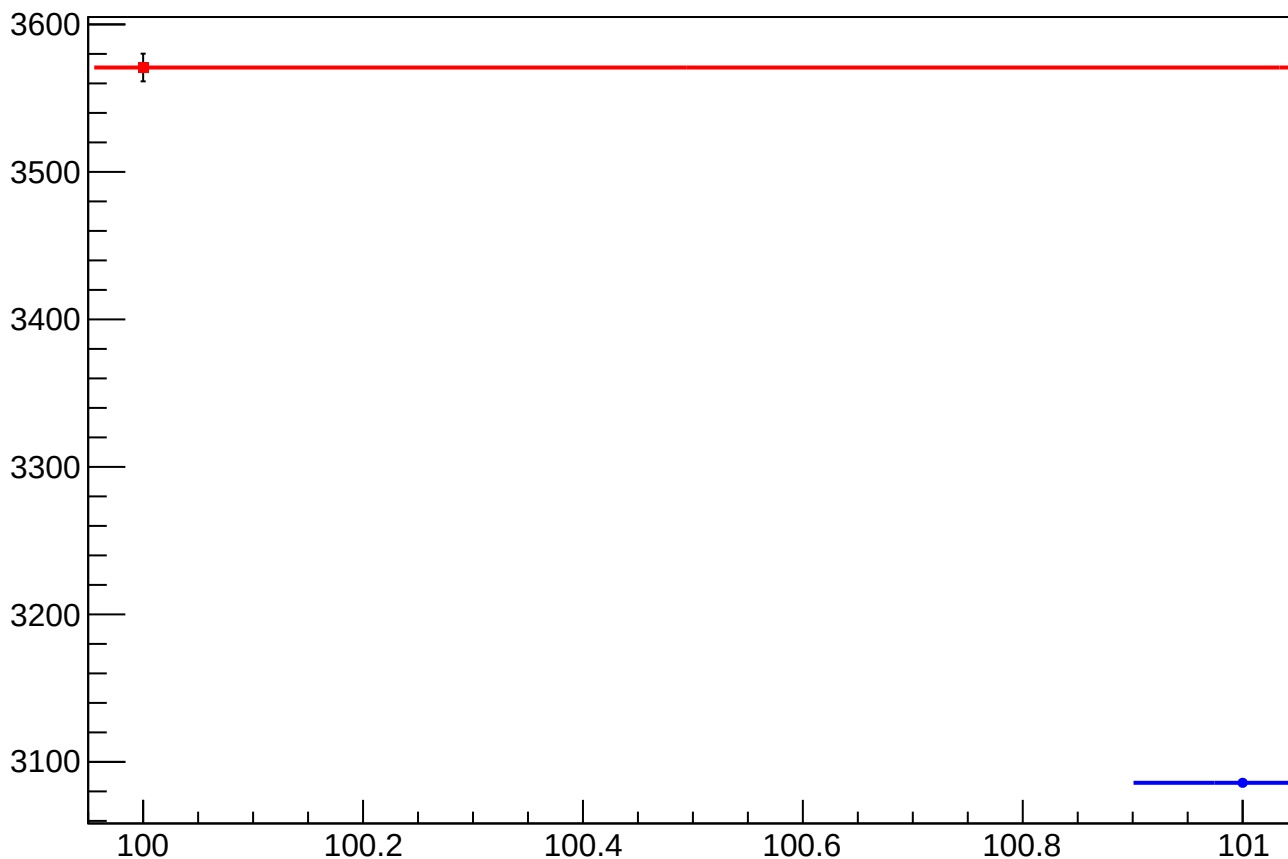
Right: 271.933+/-3683.150  $\chi^2/\text{NDF}$ : 0.4/1

In: -416.234+/-3833.847  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 271.933+/-3683.150  $\chi^2/\text{NDF}$ : 0.4/1

dit\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3085.830+/-2.711  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3570.781+/-9.381  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

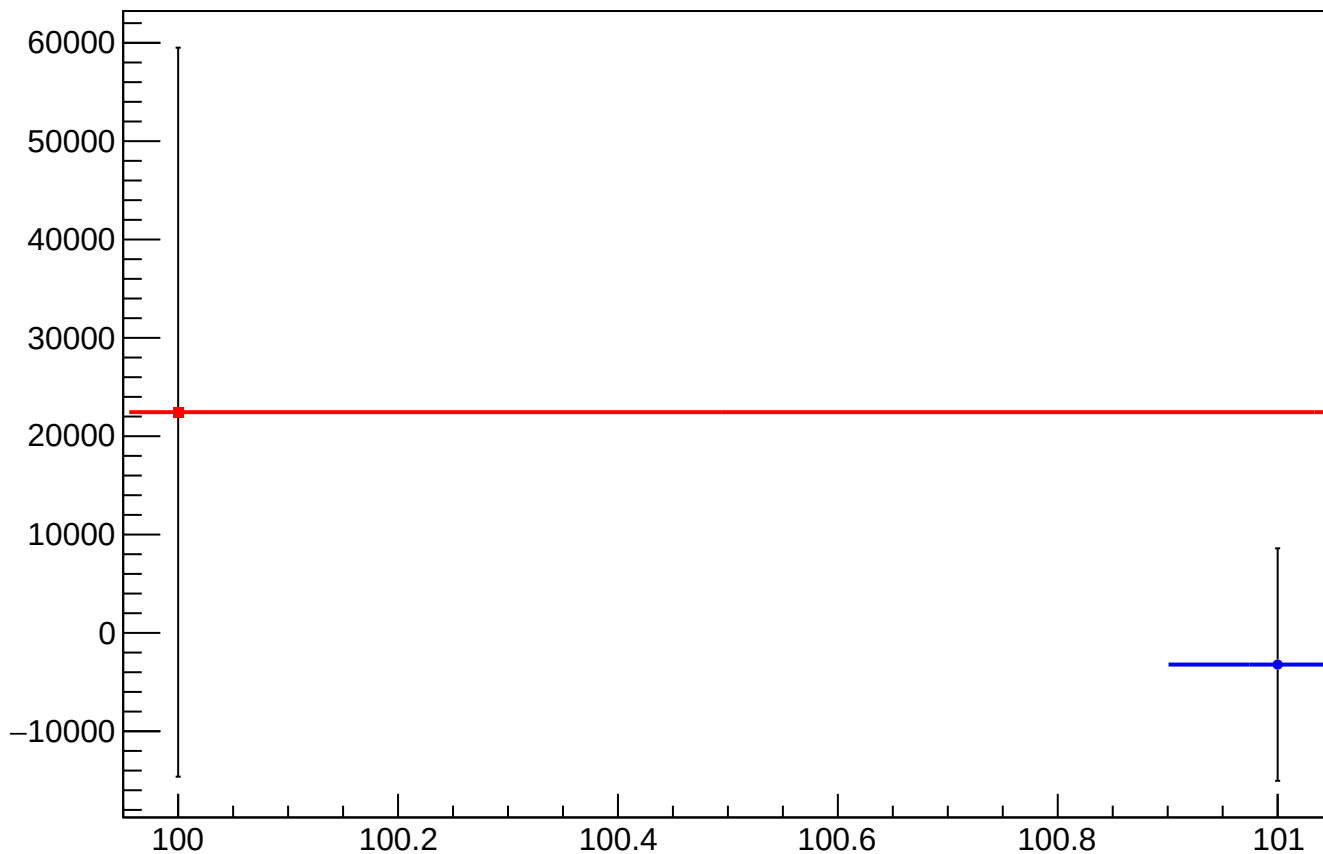
Right: 3123.205+/-2.604  $\chi^2/\text{NDF}$ : 2466.2/1

In: 3085.830+/-2.711  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3123.205+/-2.604  $\chi^2/\text{NDF}$ : 2466.2/1

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3218.794+/-11819.997  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 22443.178+/-37063.848  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

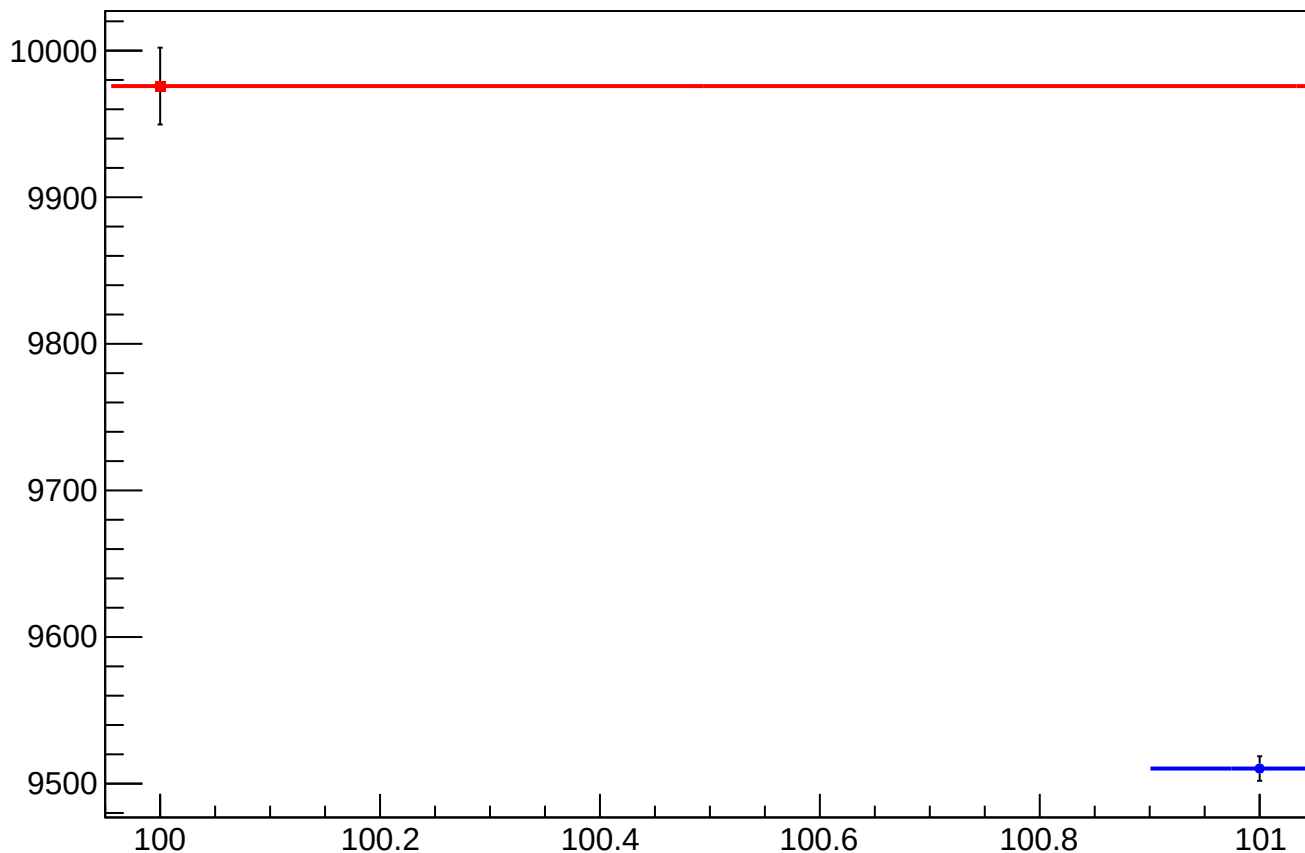
Right: -849.826+/-11261.211  $\chi^2/\text{NDF}$ : 0.4/1

In: -3218.794+/-11819.997  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: -849.826+/-11261.211  $\chi^2/\text{NDF}$ : 0.4/1

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 9510.305+/-8.358  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9975.815+/-26.208  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

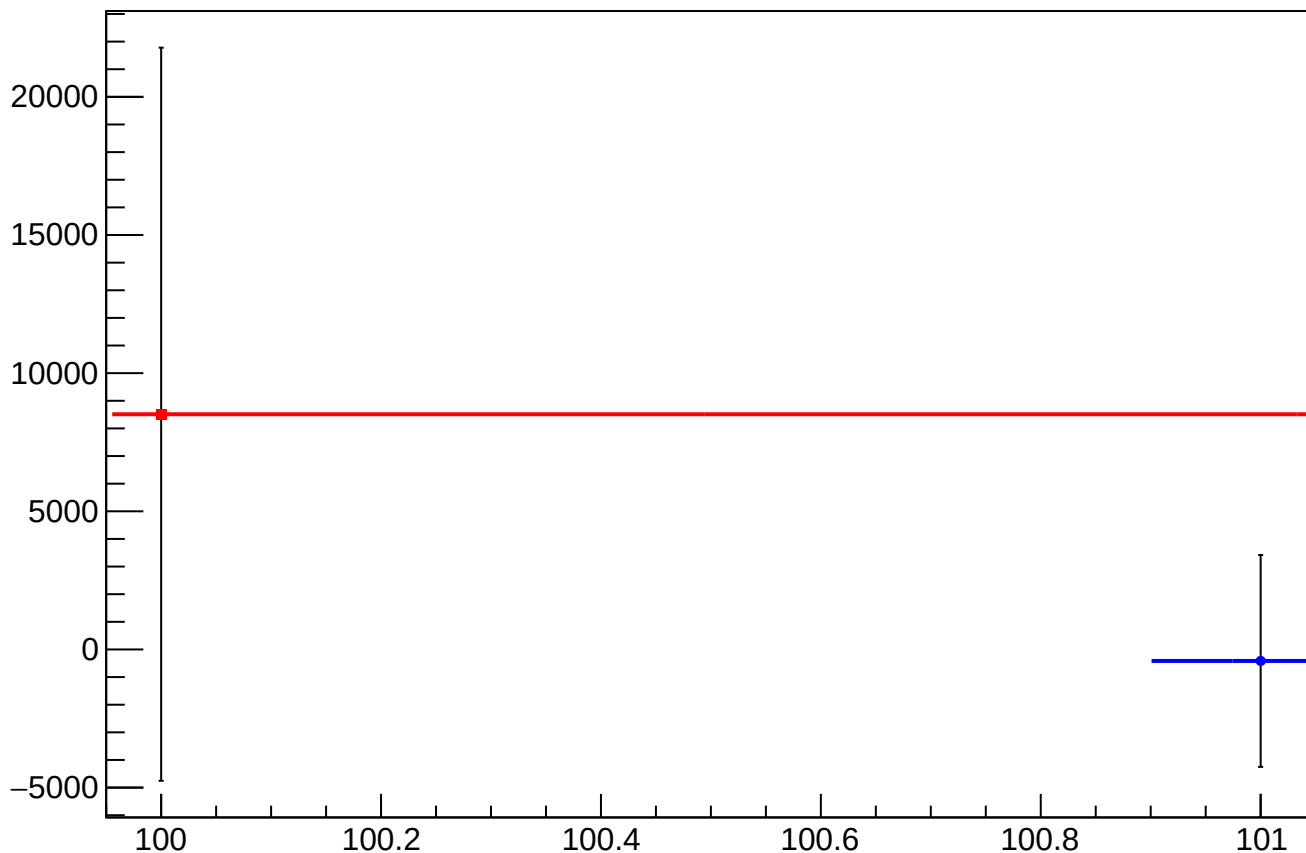
Right: 9553.278+/-7.963  $\chi^2/\text{NDF}$ : 286.4/1

In: 9510.305+/-8.358  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9553.278+/-7.963  $\chi^2/\text{NDF}$ : 286.4/1

eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: -416.277+/-3833.847  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8513.137+/-13267.181  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

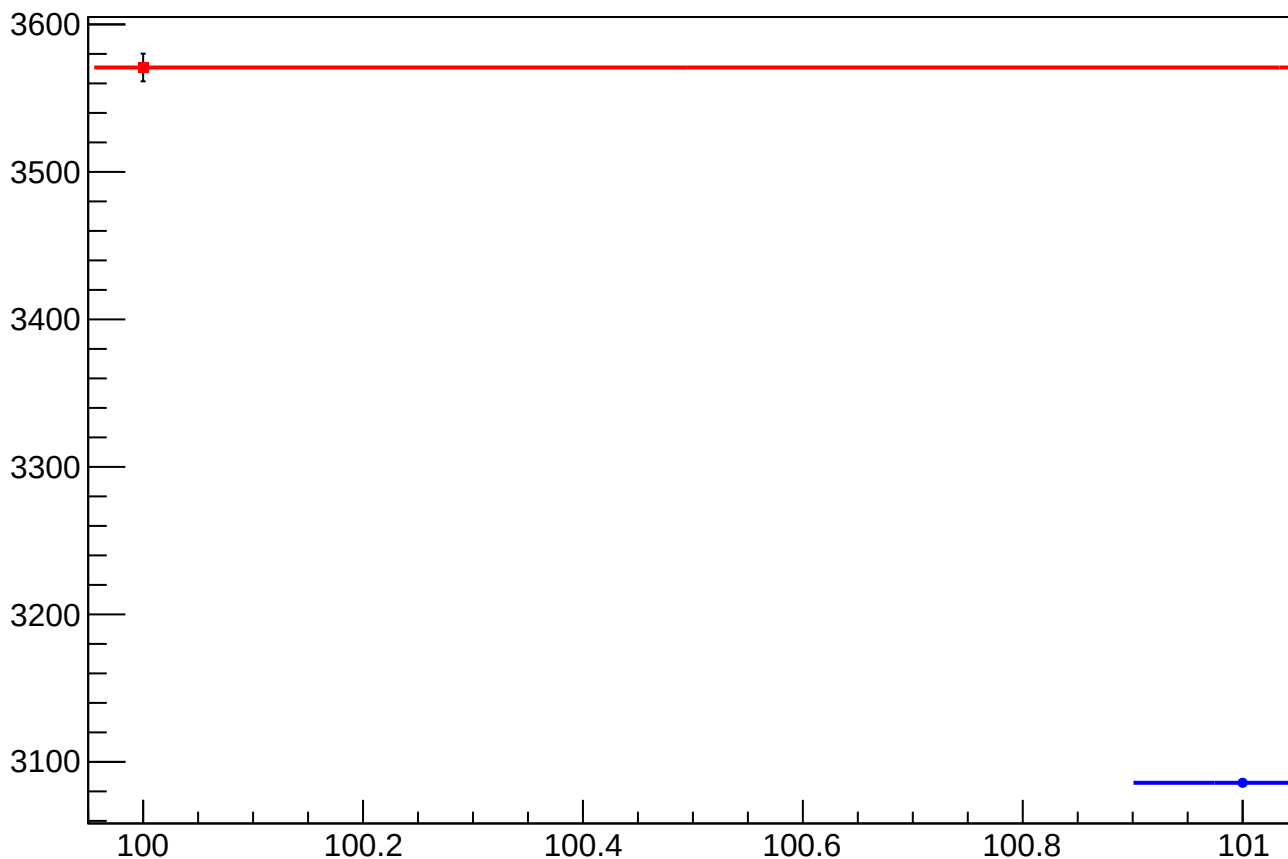
Right: 271.906+/-3683.149  $\chi^2/\text{NDF}$ : 0.4/1

In: -416.277+/-3833.847  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 271.906+/-3683.149  $\chi^2/\text{NDF}$ : 0.4/1

eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3085.830+/-2.711  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3570.780+/-9.381  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

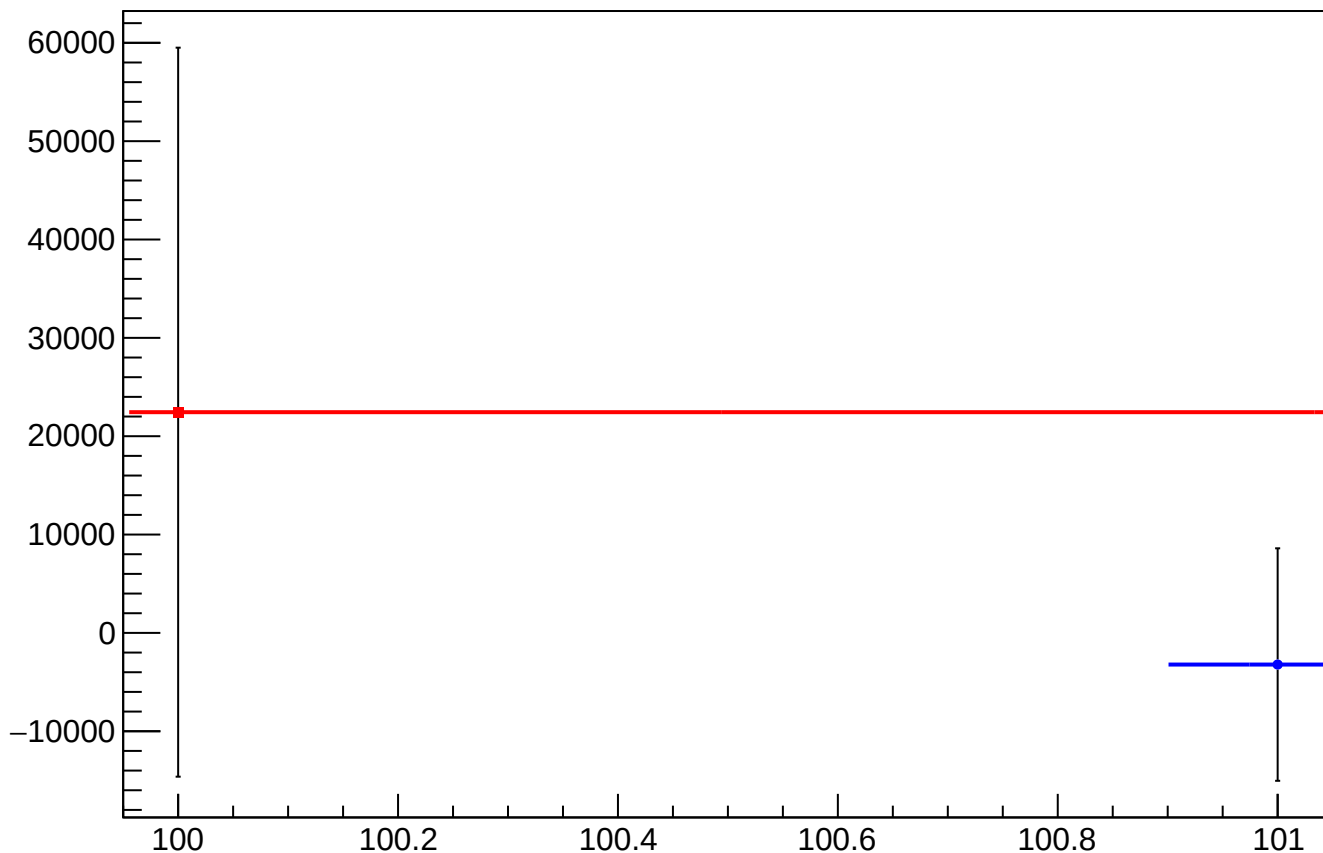
Right: 3123.205+/-2.604  $\chi^2/\text{NDF}$ : 2466.2/1

In: 3085.830+/-2.711  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3123.205+/-2.604  $\chi^2/\text{NDF}$ : 2466.2/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3218.825+/-11819.982  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22443.334+/-37063.783  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

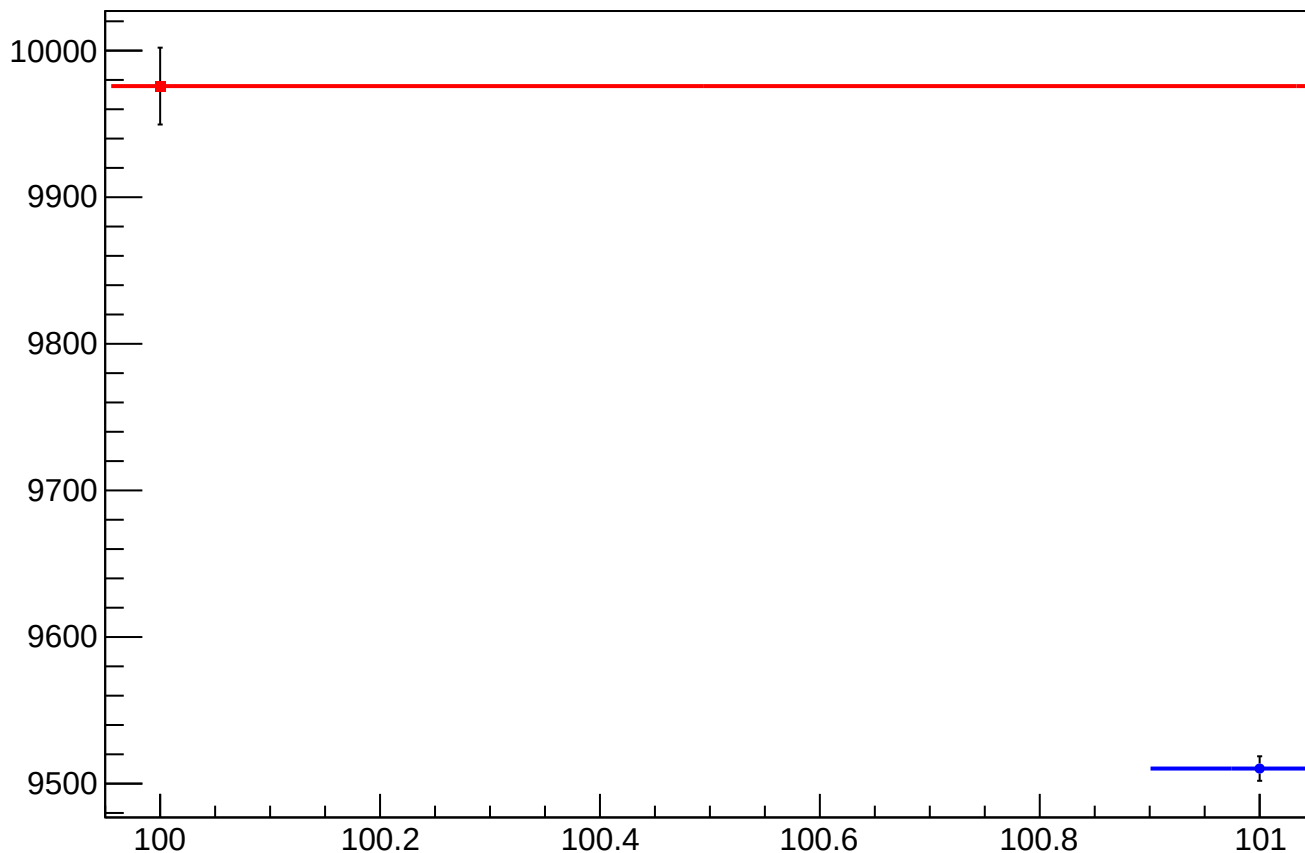
Right: -849.838+/-11261.197  $\chi^2/\text{NDF}$ : 0.4/1

In: -3218.825+/-11819.982  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -849.838+/-11261.197  $\chi^2/\text{NDF}$ : 0.4/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 9510.294+/-8.358  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9975.798+/-26.208  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 9553.266+/-7.963  $\chi^2/\text{NDF}$ : 286.4/1

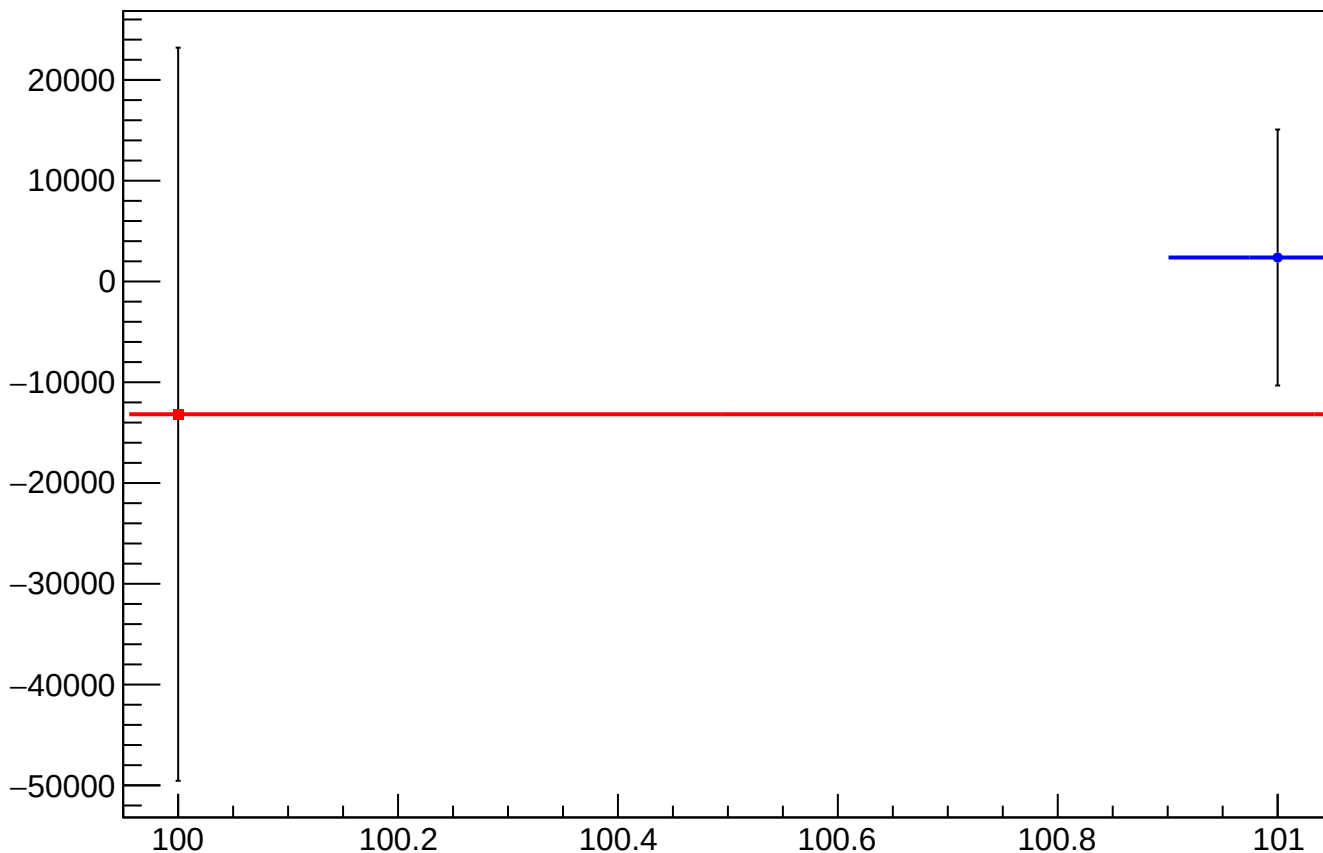
In: 9510.294+/-8.358  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9553.266+/-7.963  $\chi^2/\text{NDF}$ : 286.4/1



asym\_us\_avg\_at2lr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 2380.086+/-12701.452  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13173.324+/-36375.645  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

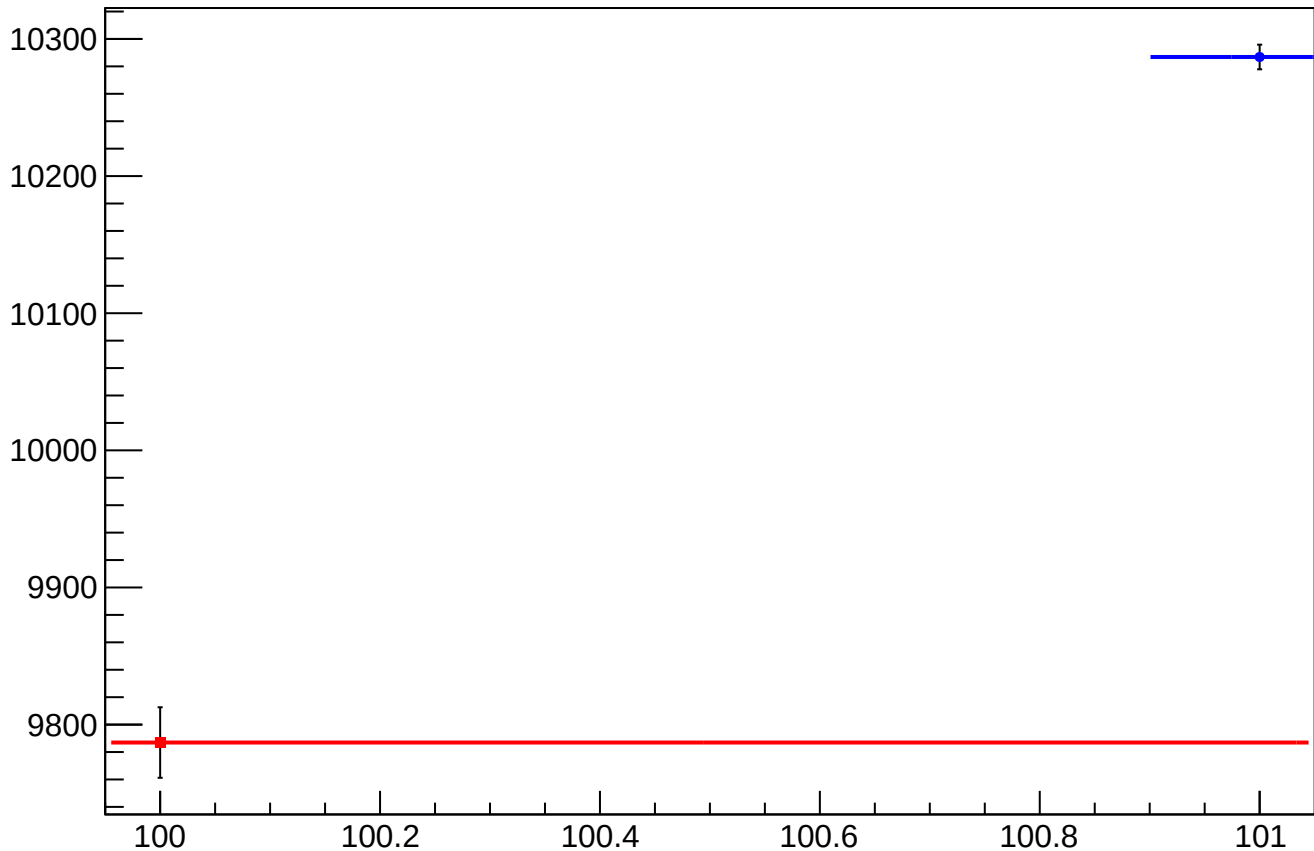
Right: 689.848+/-11991.454  $\chi^2/\text{NDF}$ : 0.2/1

In: 2380.086+/-12701.452  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 689.848+/-11991.454  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_avg\_at2lr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 10286.846 $\pm$ 8.981  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9786.937 $\pm$ 25.721  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

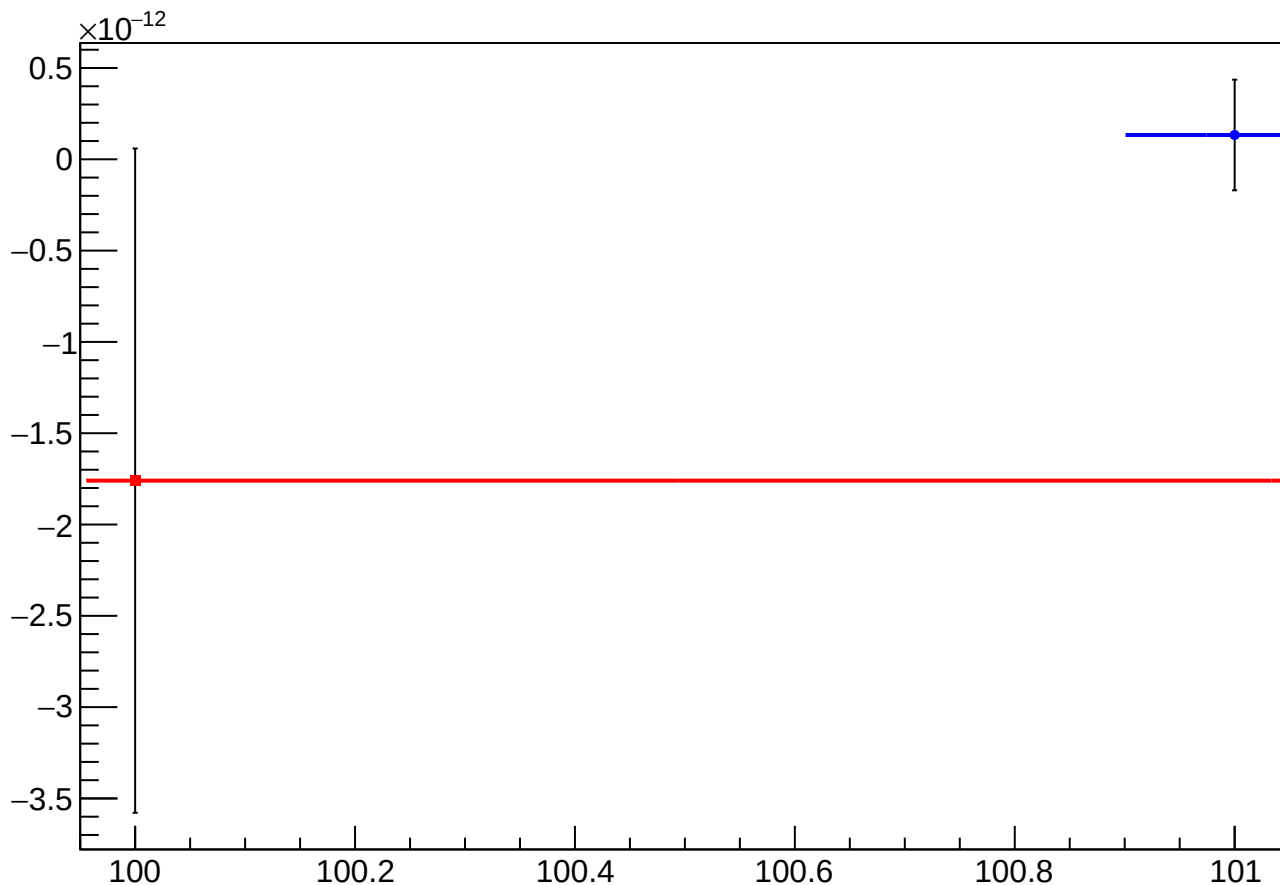
Right: 10232.520 $\pm$ 8.479  $\chi^2$ /NDF: 336.7/1

In: 10286.846 $\pm$ 8.981  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10232.520 $\pm$ 8.479  $\chi^2$ /NDF: 336.7/1

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

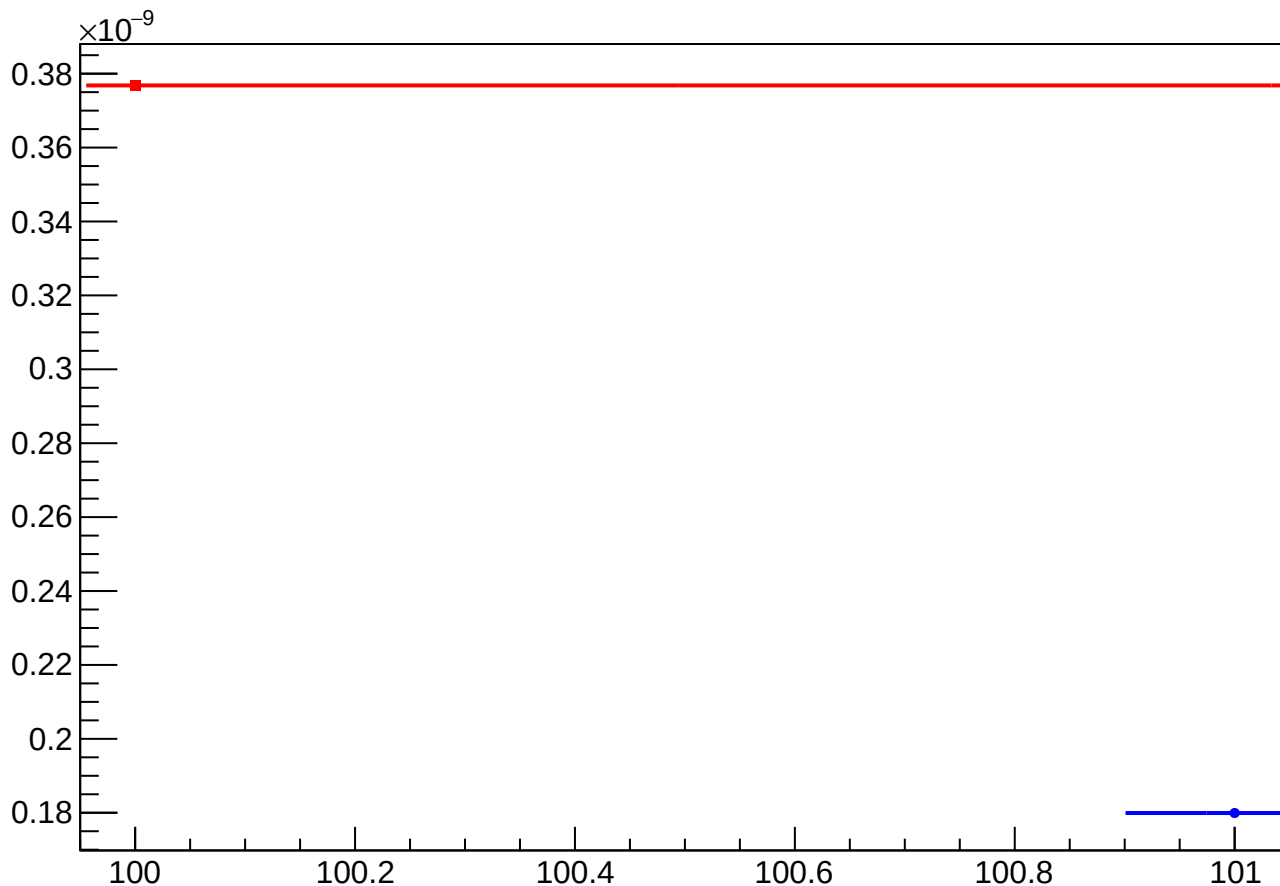
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.1/1

asym\_us\_avg\_at2lr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

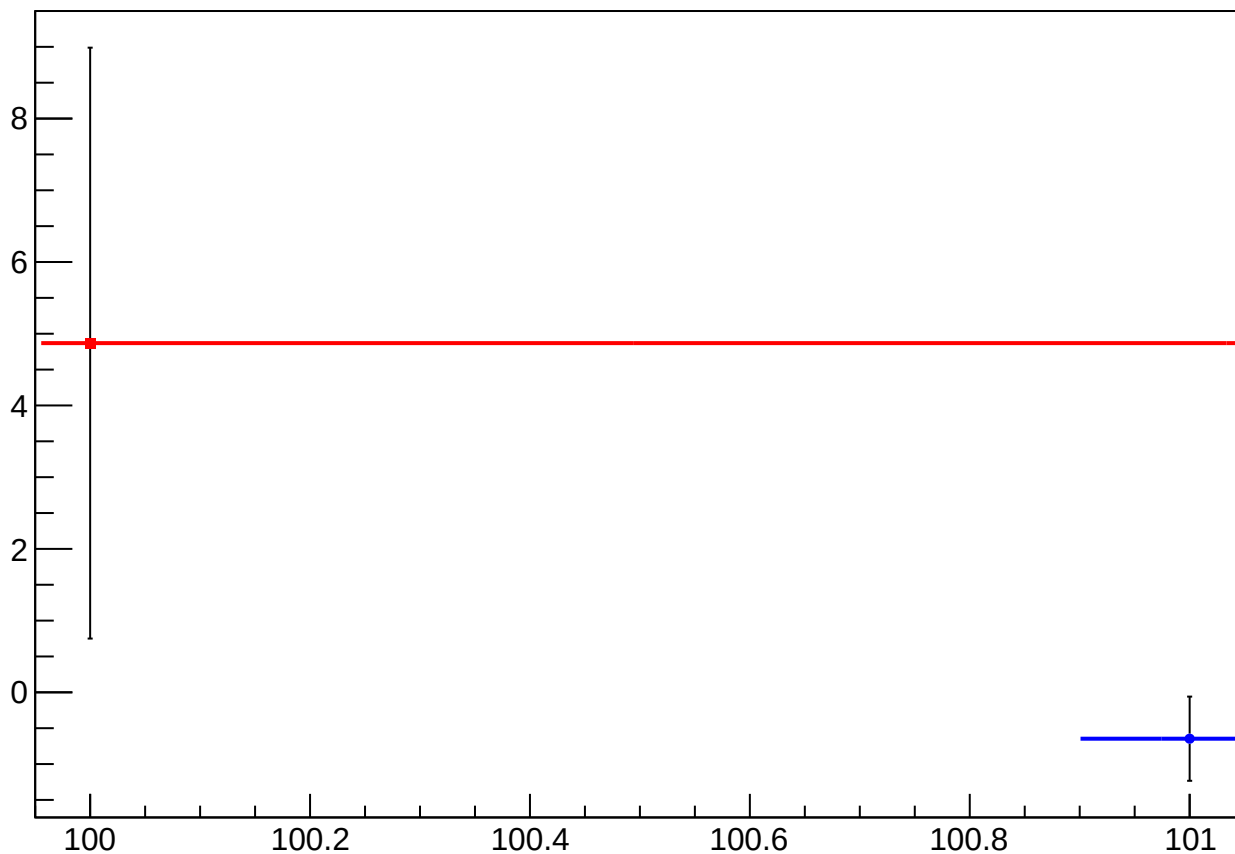
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22799.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22799.9/1

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.647 $\pm$ 0.587  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.869 $\pm$ 4.119  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

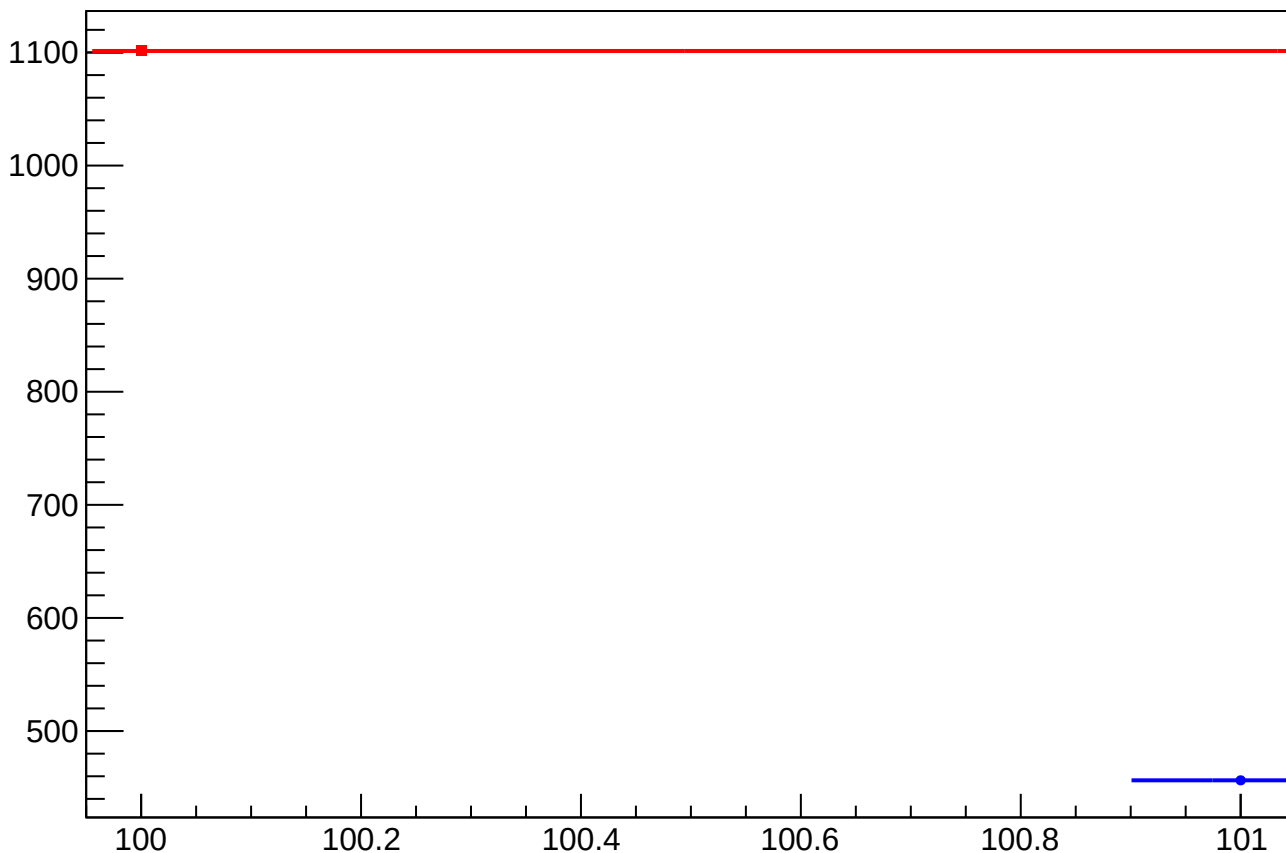
Right: -0.537 $\pm$ 0.581  $\chi^2$ /NDF: 1.8/1

In: -0.647 $\pm$ 0.587  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.537 $\pm$ 0.581  $\chi^2$ /NDF: 1.8/1

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 456.411 $\pm$ 0.415  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1101.335 $\pm$ 2.913  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

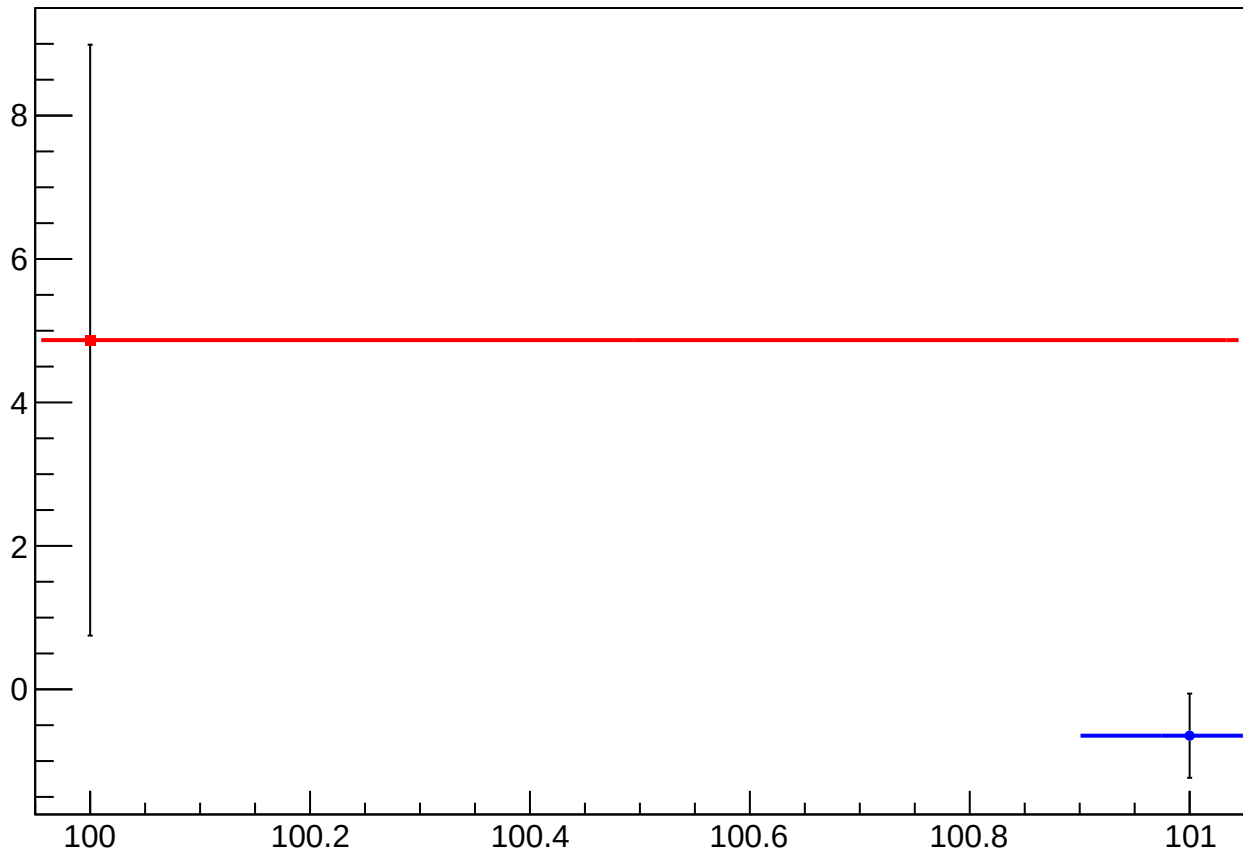
Right: 469.243 $\pm$ 0.411  $\chi^2$ /NDF: 48044.9/1

In: 456.411 $\pm$ 0.415  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 469.243 $\pm$ 0.411  $\chi^2$ /NDF: 48044.9/1

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.647 $\pm$ 0.587  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.869 $\pm$ 4.119  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

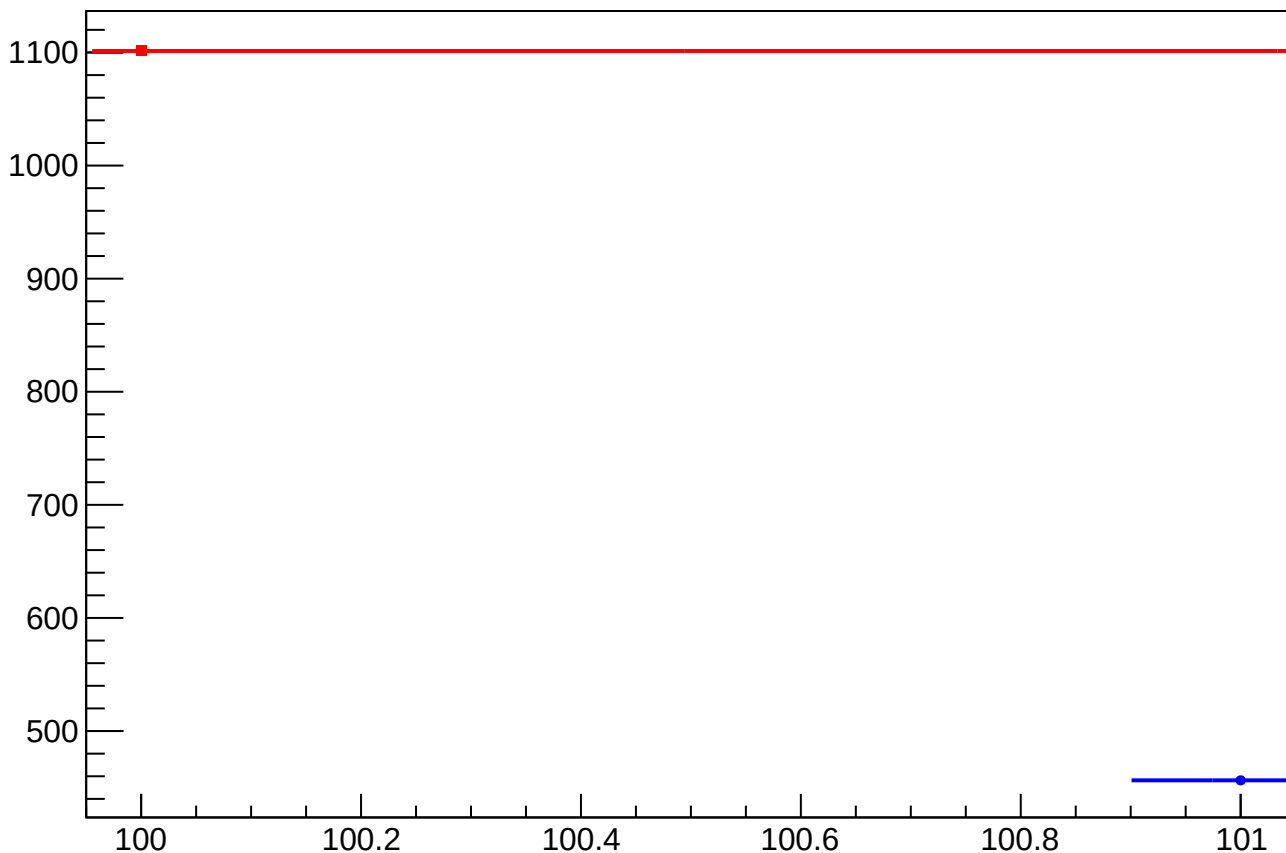
Right: -0.537 $\pm$ 0.581  $\chi^2$ /NDF: 1.8/1

In: -0.647 $\pm$ 0.587  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.537 $\pm$ 0.581  $\chi^2$ /NDF: 1.8/1

asym\_us\_avg\_at2lr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 456.411+/-0.415  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1101.335+/-2.913  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 469.243+/-0.411  $\chi^2/\text{NDF}$ : 48044.9/1

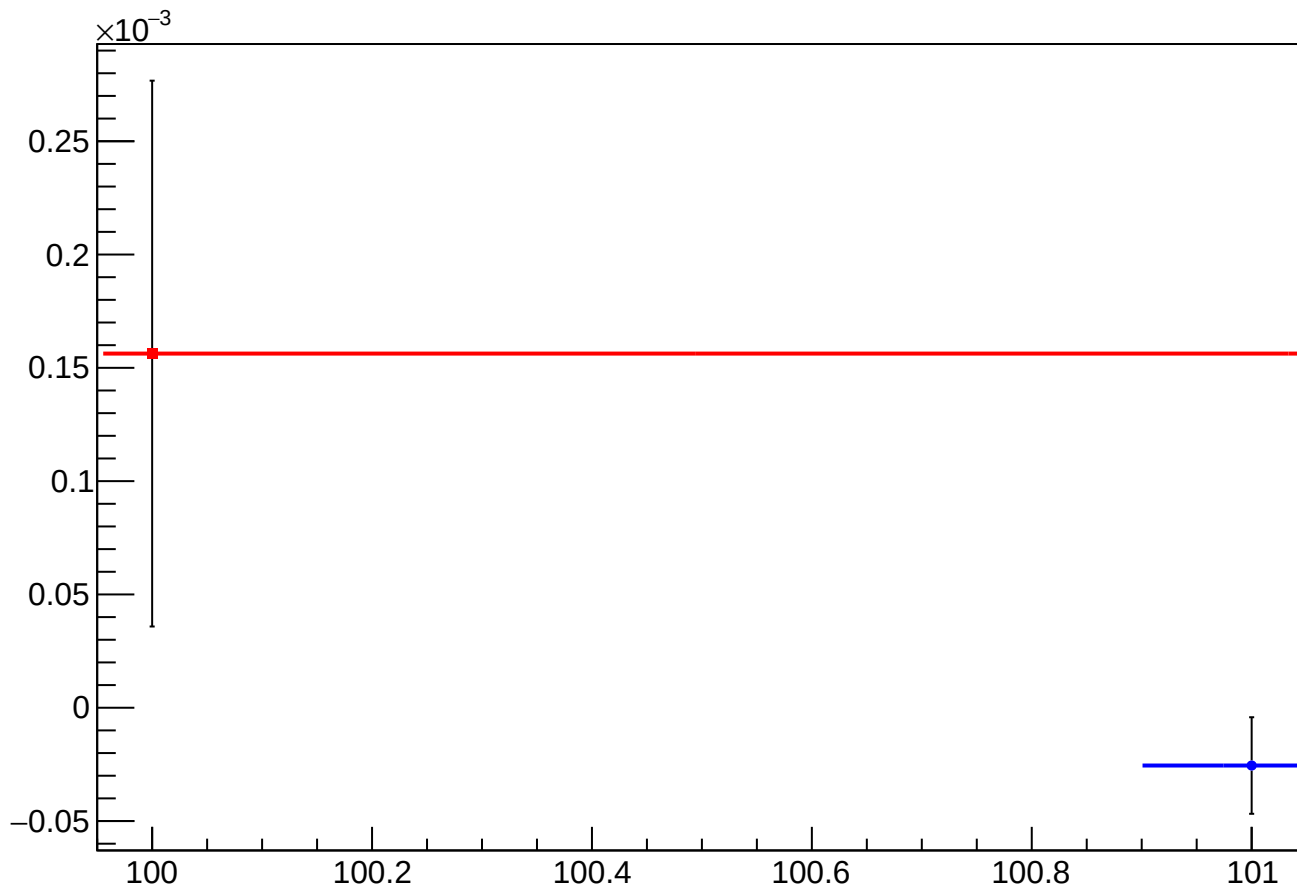
In: 456.411+/-0.415  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 469.243+/-0.411  $\chi^2/\text{NDF}$ : 48044.9/1



asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

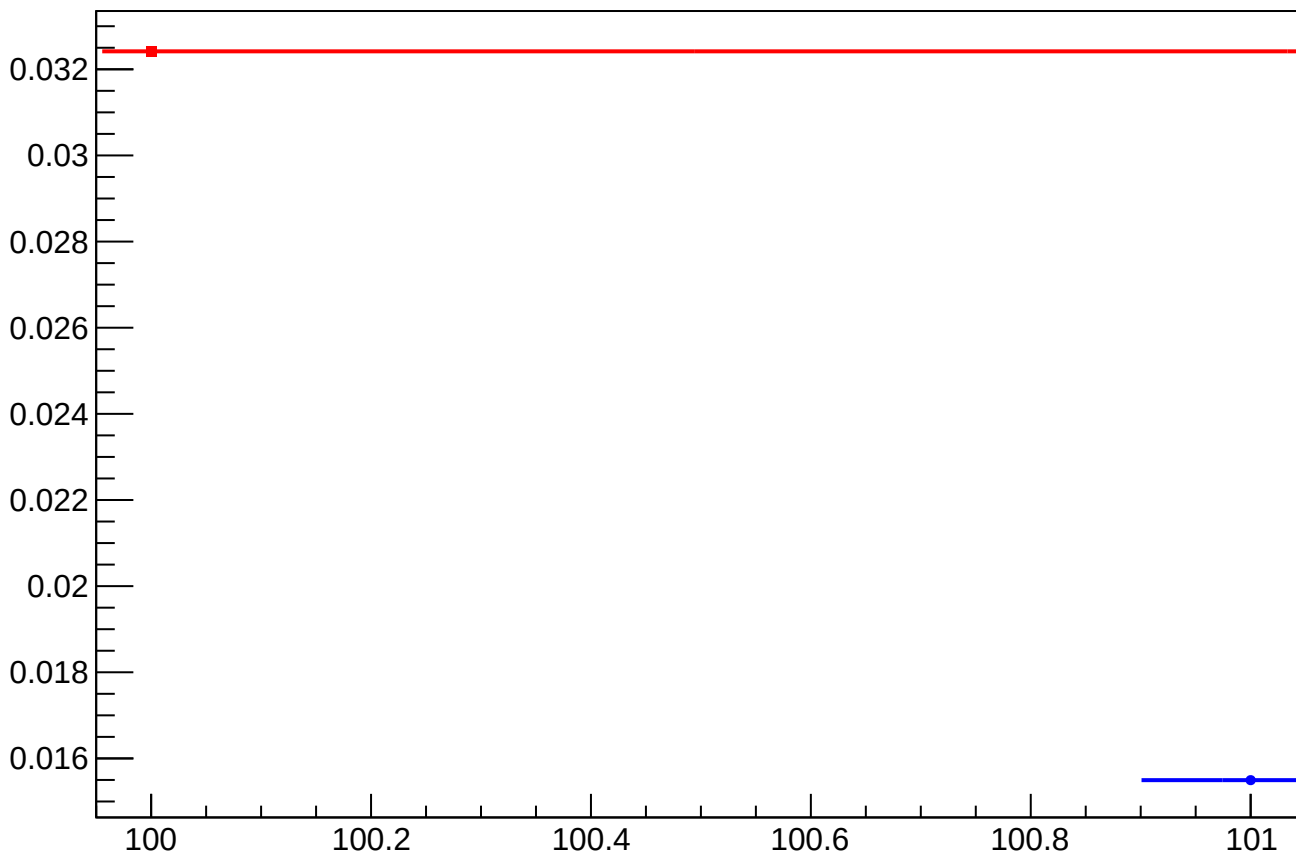
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

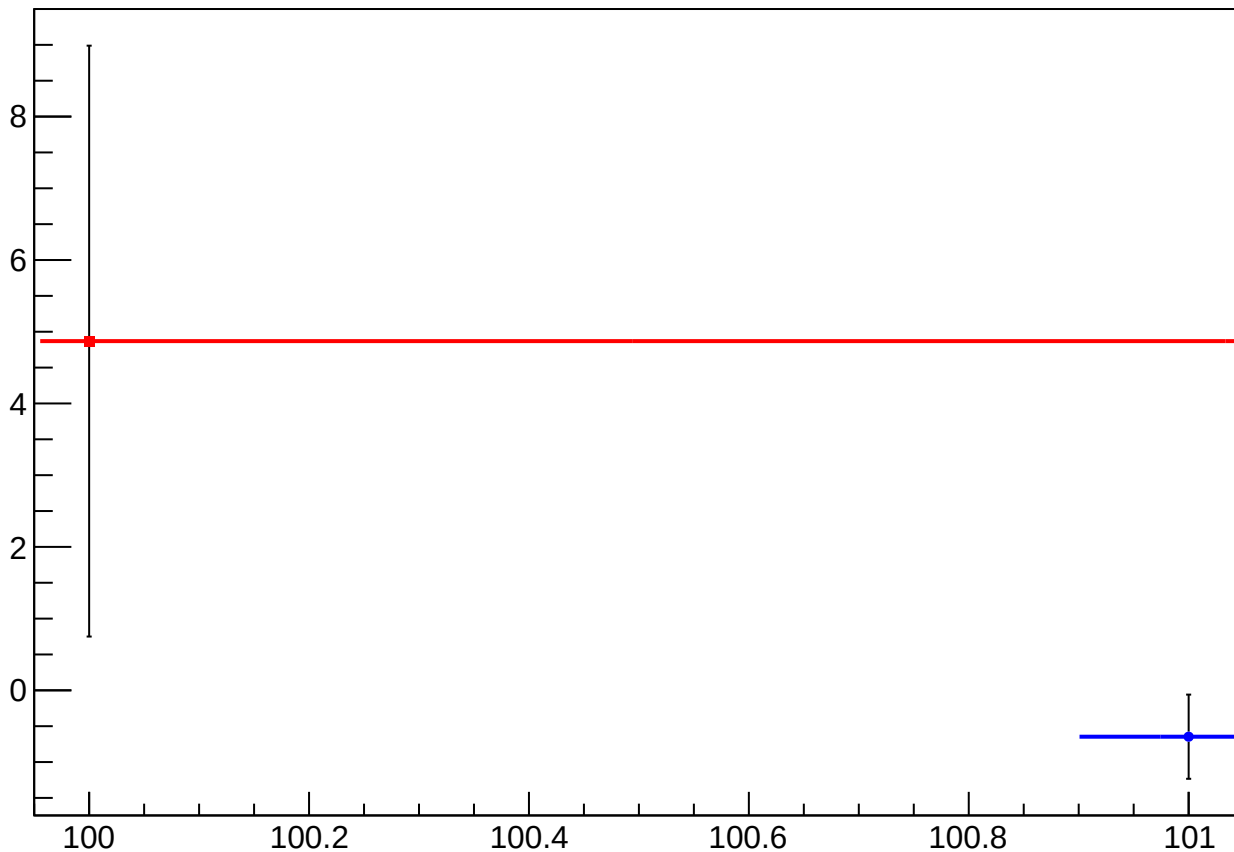
Right: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 38282.8/1

In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 38282.8/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.647 $\pm$ 0.587  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.869 $\pm$ 4.119  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

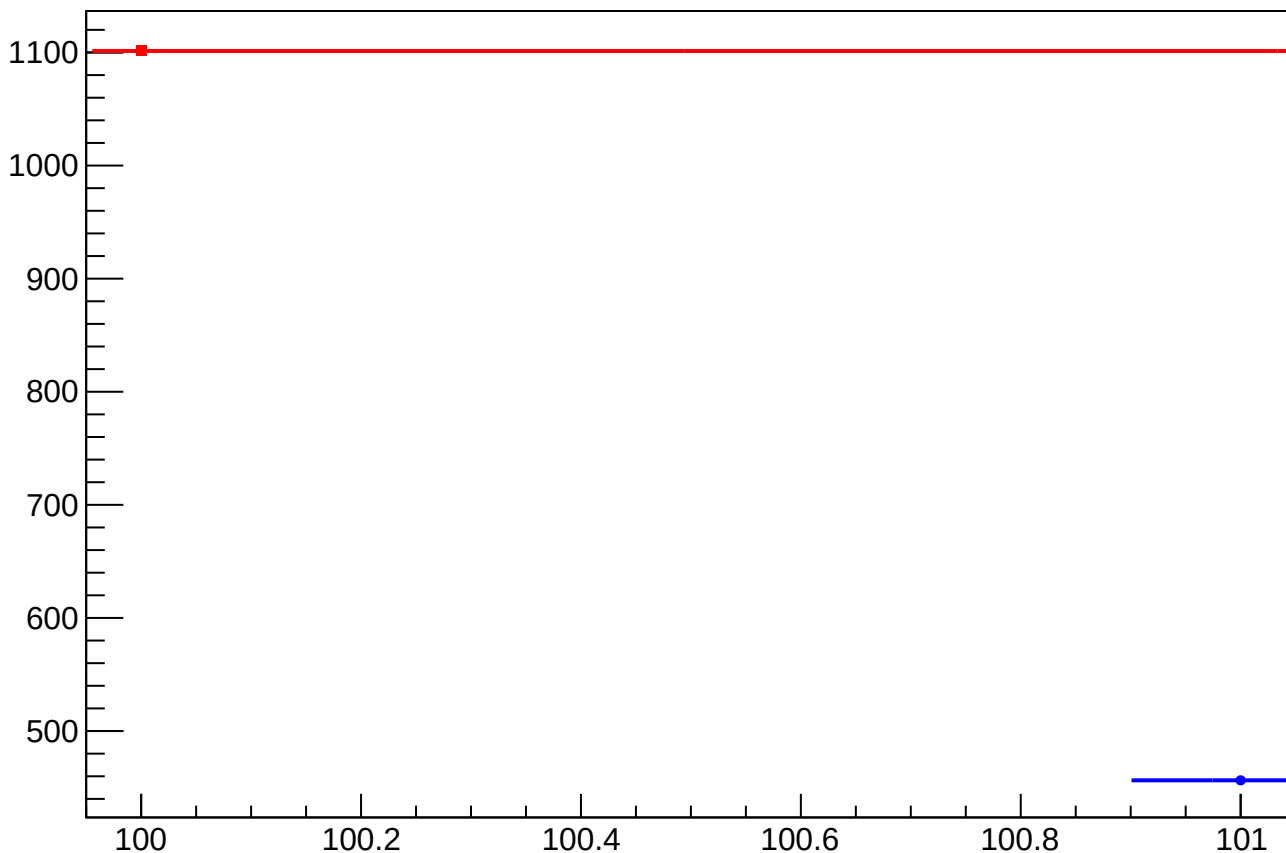
Right: -0.537 $\pm$ 0.581  $\chi^2$ /NDF: 1.8/1

In: -0.647 $\pm$ 0.587  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.537 $\pm$ 0.581  $\chi^2$ /NDF: 1.8/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 456.406 $\pm$ 0.415  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1101.335 $\pm$ 2.913  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

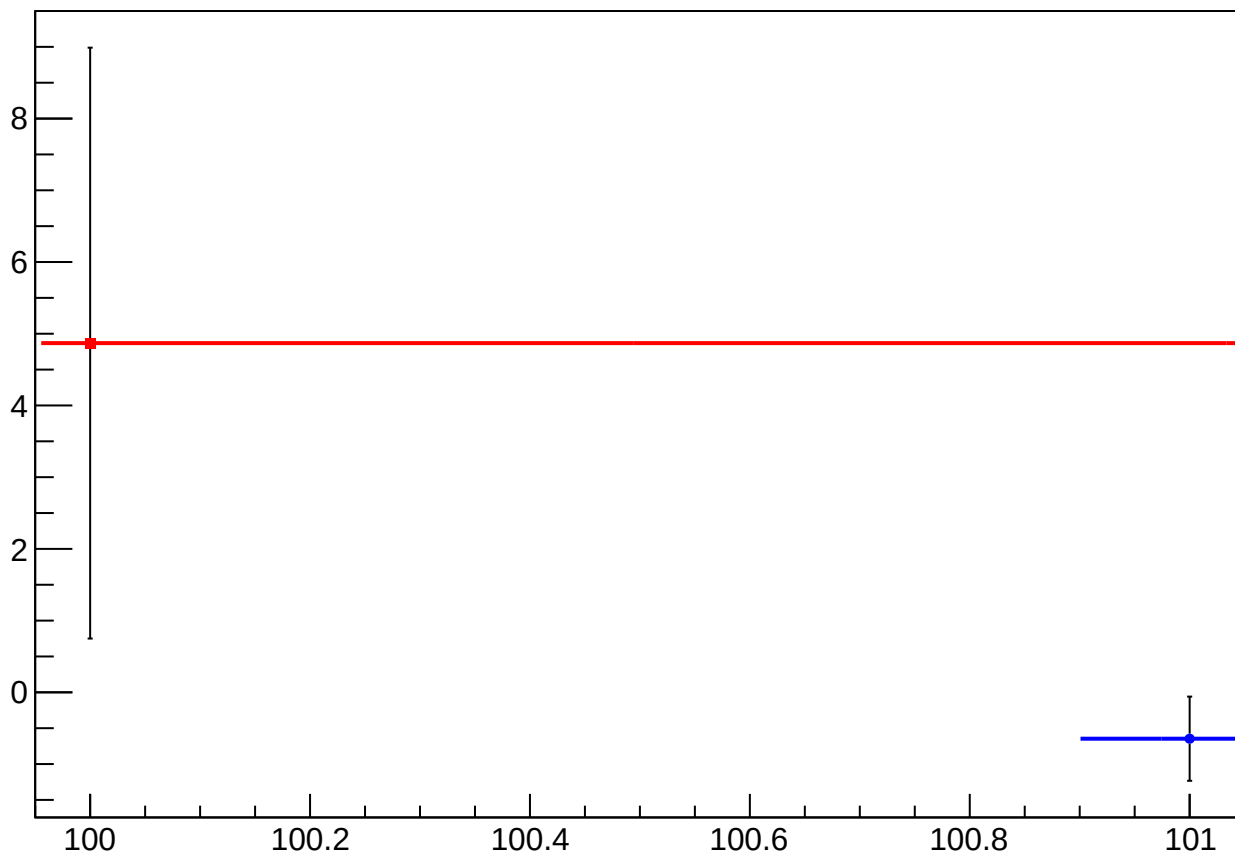
Right: 469.238 $\pm$ 0.411  $\chi^2$ /NDF: 48045.6/1

In: 456.406 $\pm$ 0.415  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 469.238 $\pm$ 0.411  $\chi^2$ /NDF: 48045.6/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.647 $\pm$ 0.587  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.869 $\pm$ 4.119  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

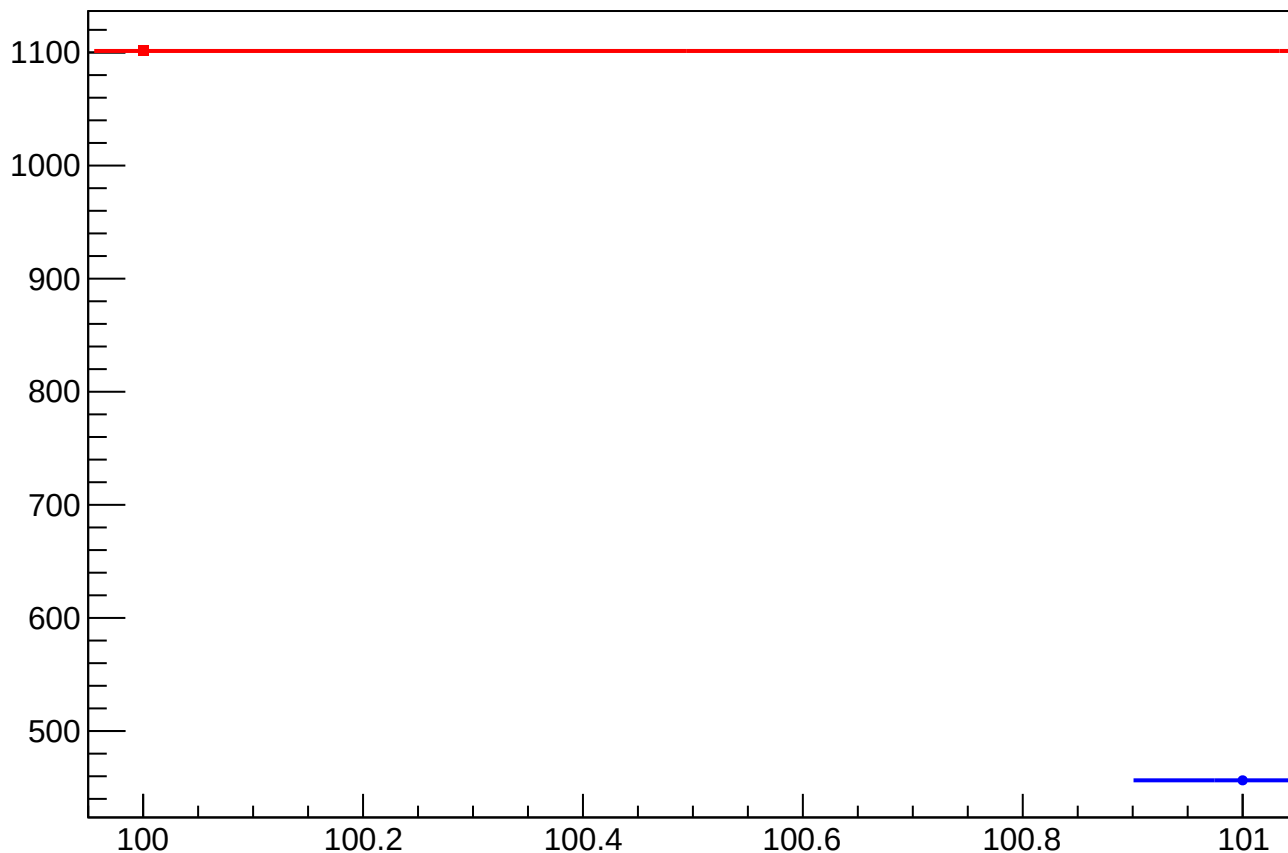
Right: -0.537 $\pm$ 0.581  $\chi^2$ /NDF: 1.8/1

In: -0.647 $\pm$ 0.587  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.537 $\pm$ 0.581  $\chi^2$ /NDF: 1.8/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 456.406 $\pm$ 0.415  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1101.335 $\pm$ 2.913  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

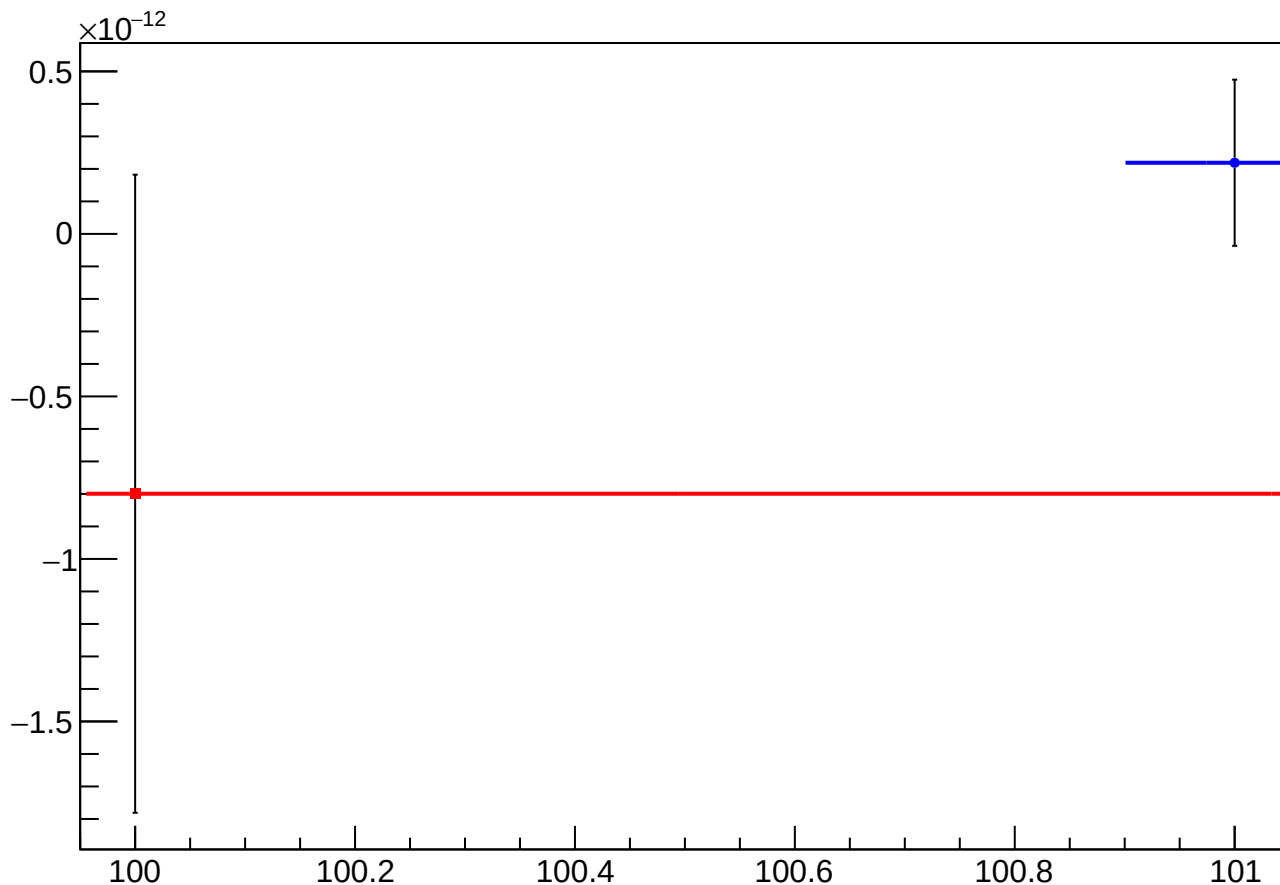
Right: 469.238 $\pm$ 0.411  $\chi^2$ /NDF: 48045.6/1

In: 456.406 $\pm$ 0.415  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 469.238 $\pm$ 0.411  $\chi^2$ /NDF: 48045.6/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

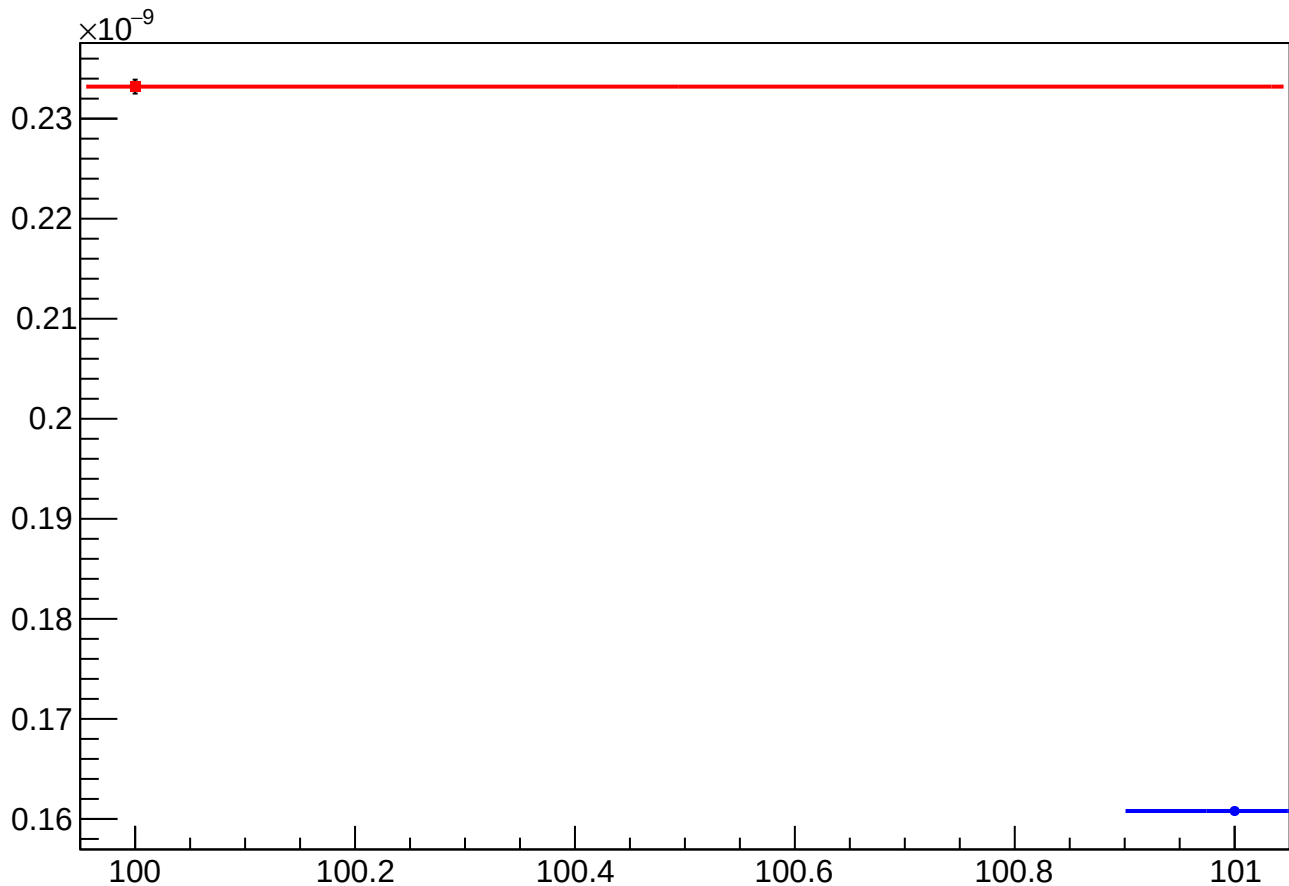
Right: 0.000+/-0.000  $\chi^2$ /NDF: 1.0/1

In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 1.0/1

asym\_us\_avg\_at2lr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10191.4/1

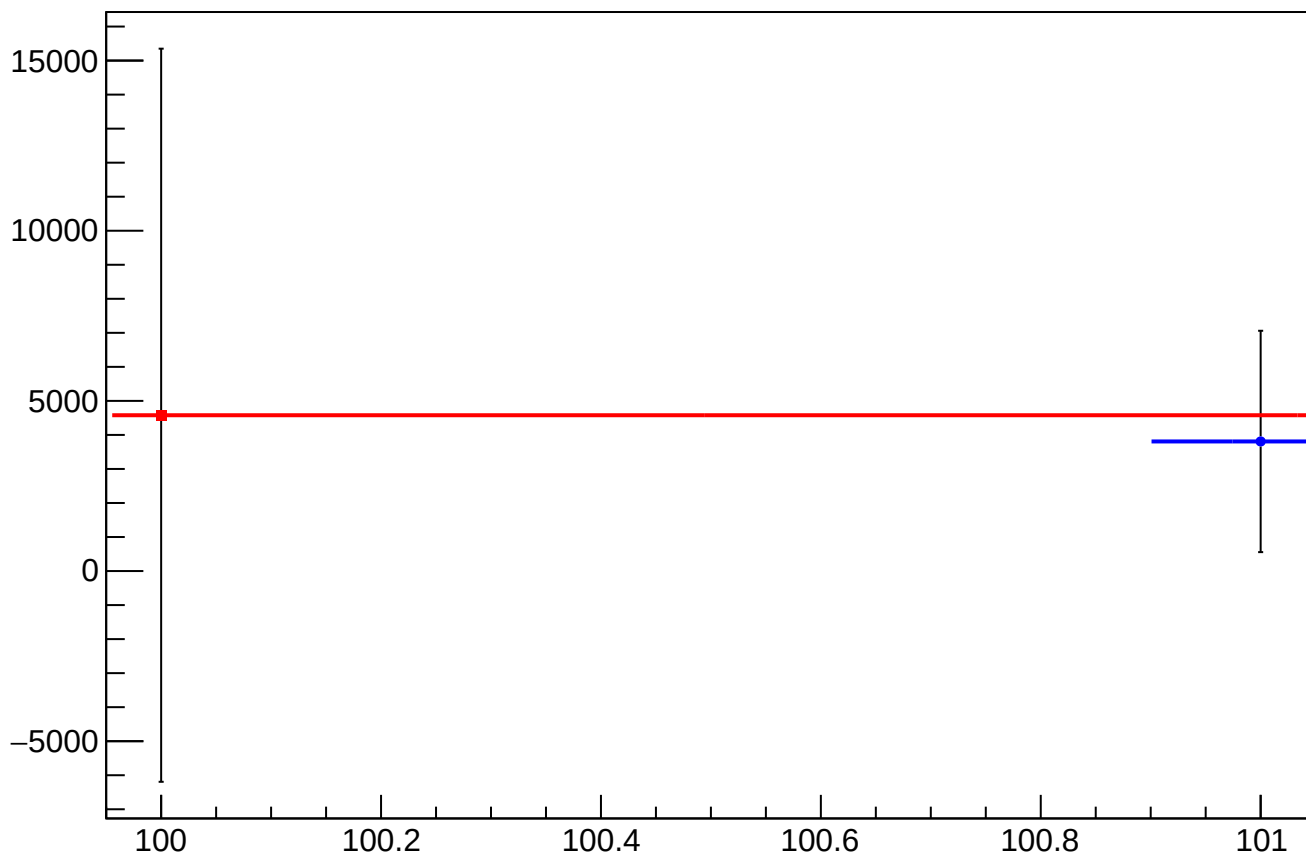
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10191.4/1



reg\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 3808.220+/-3252.306  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4578.513+/-10771.482  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

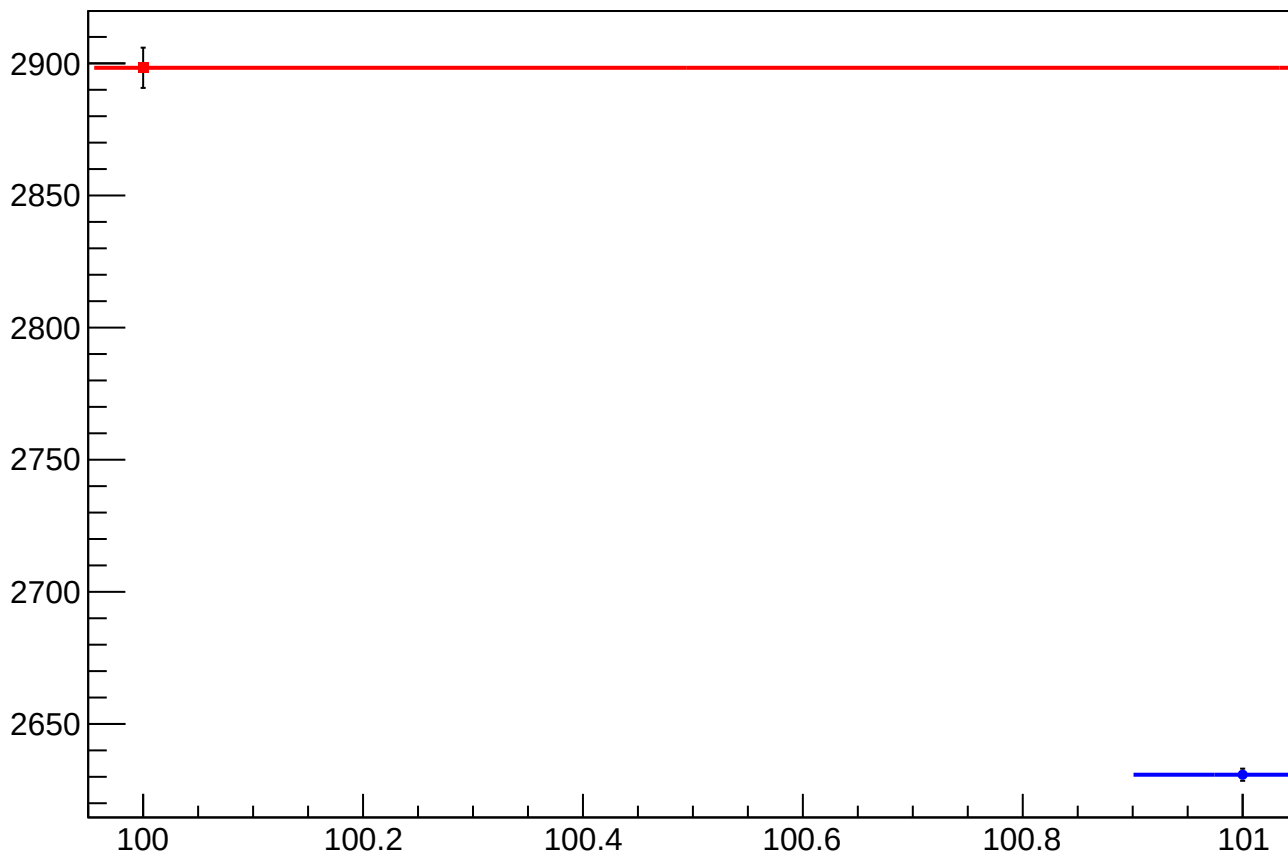
Right: 3872.578+/-3113.479  $\chi^2/\text{NDF}$ : 0.0/1

In: 3808.220+/-3252.306  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3872.578+/-3113.479  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 2630.792+/-2.300  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2898.322+/-7.617  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

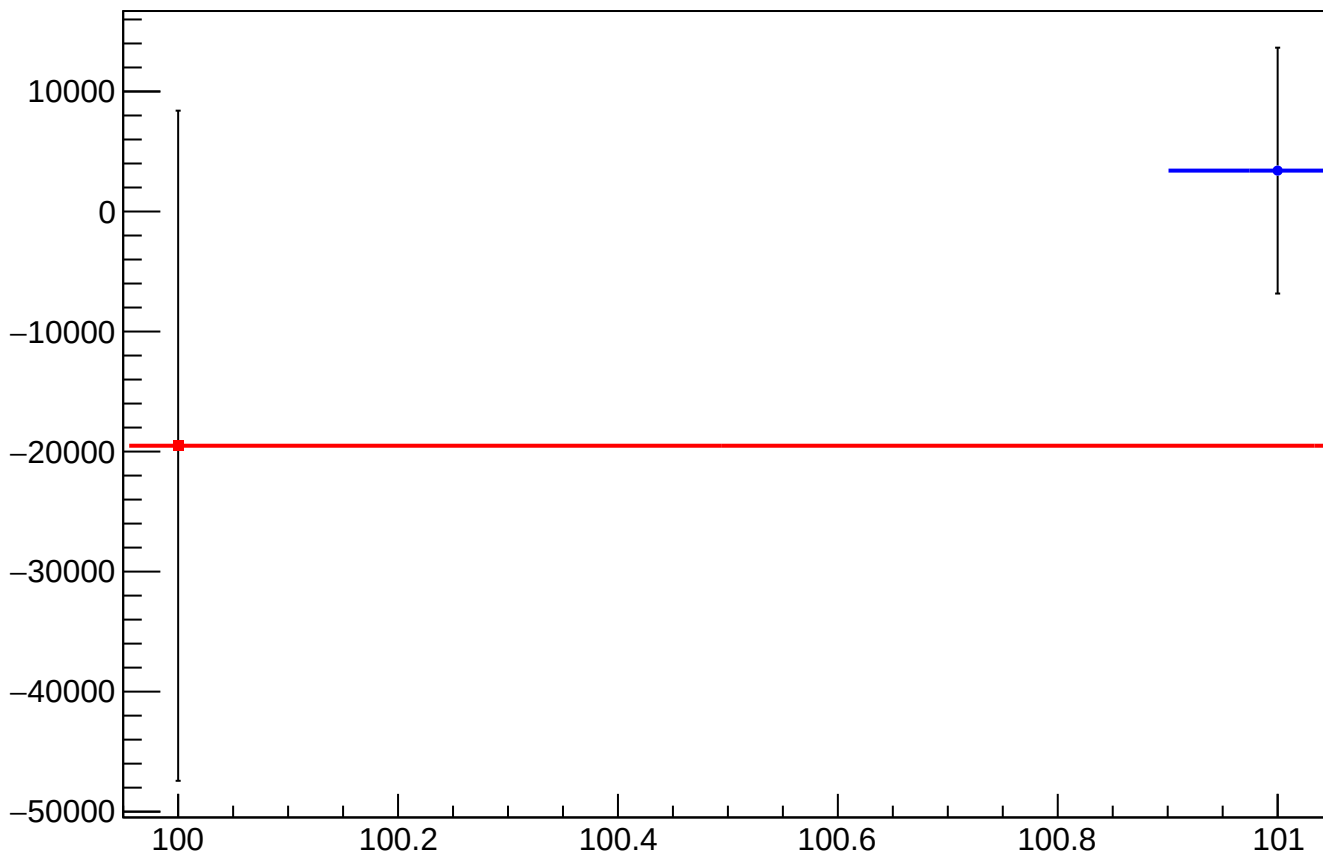
Right: 2653.144+/-2.202  $\chi^2/\text{NDF}$ : 1130.7/1

In: 2630.792+/-2.300  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2653.144+/-2.202  $\chi^2/\text{NDF}$ : 1130.7/1

asym\_us\_avg\_at2lr\_avg\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 3407.906+/-10242.120  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19513.642+/-27915.541  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

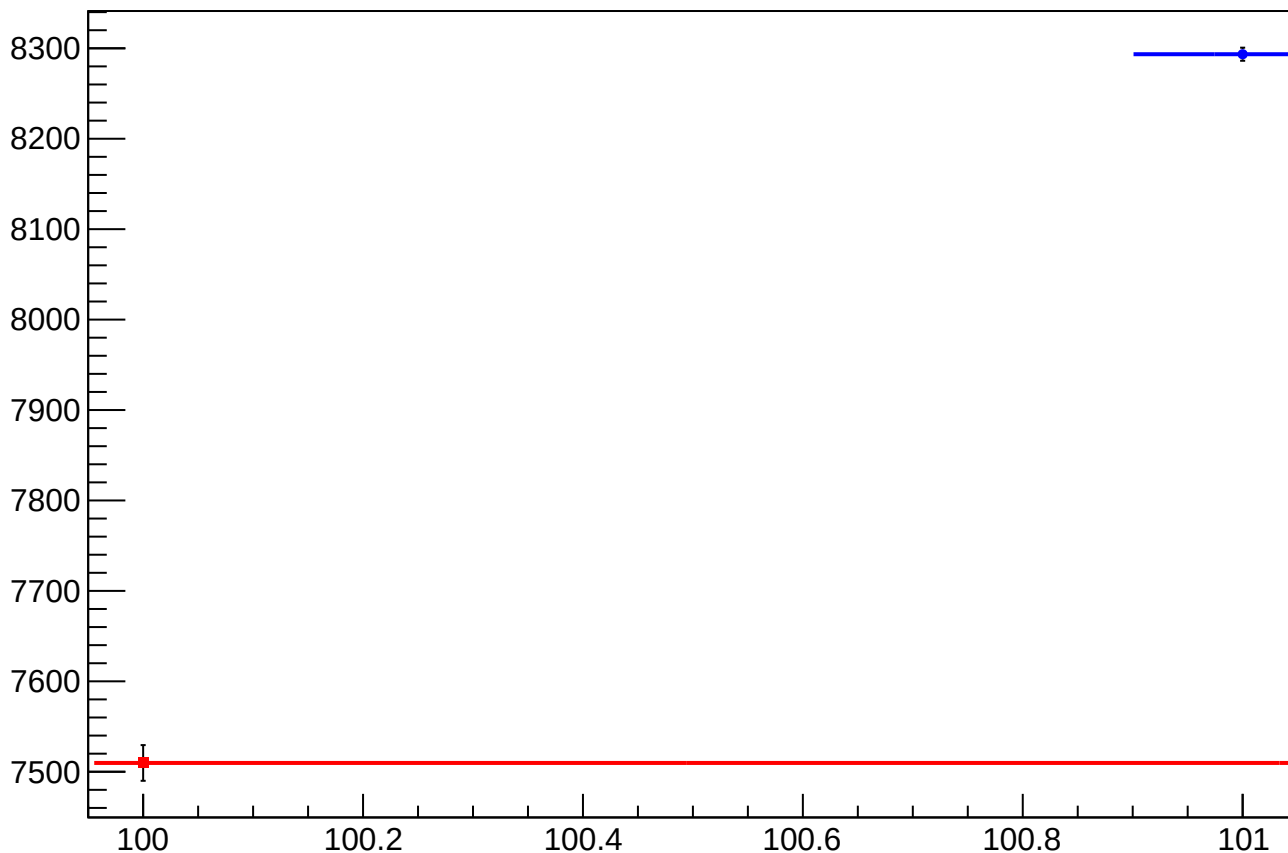
Right: 688.439+/-9615.368  $\chi^2/\text{NDF}$ : 0.6/1

In: 3407.906+/-10242.120  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 688.439+/-9615.368  $\chi^2/\text{NDF}$ : 0.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 8293.461+/-7.242  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7509.739+/-19.739  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

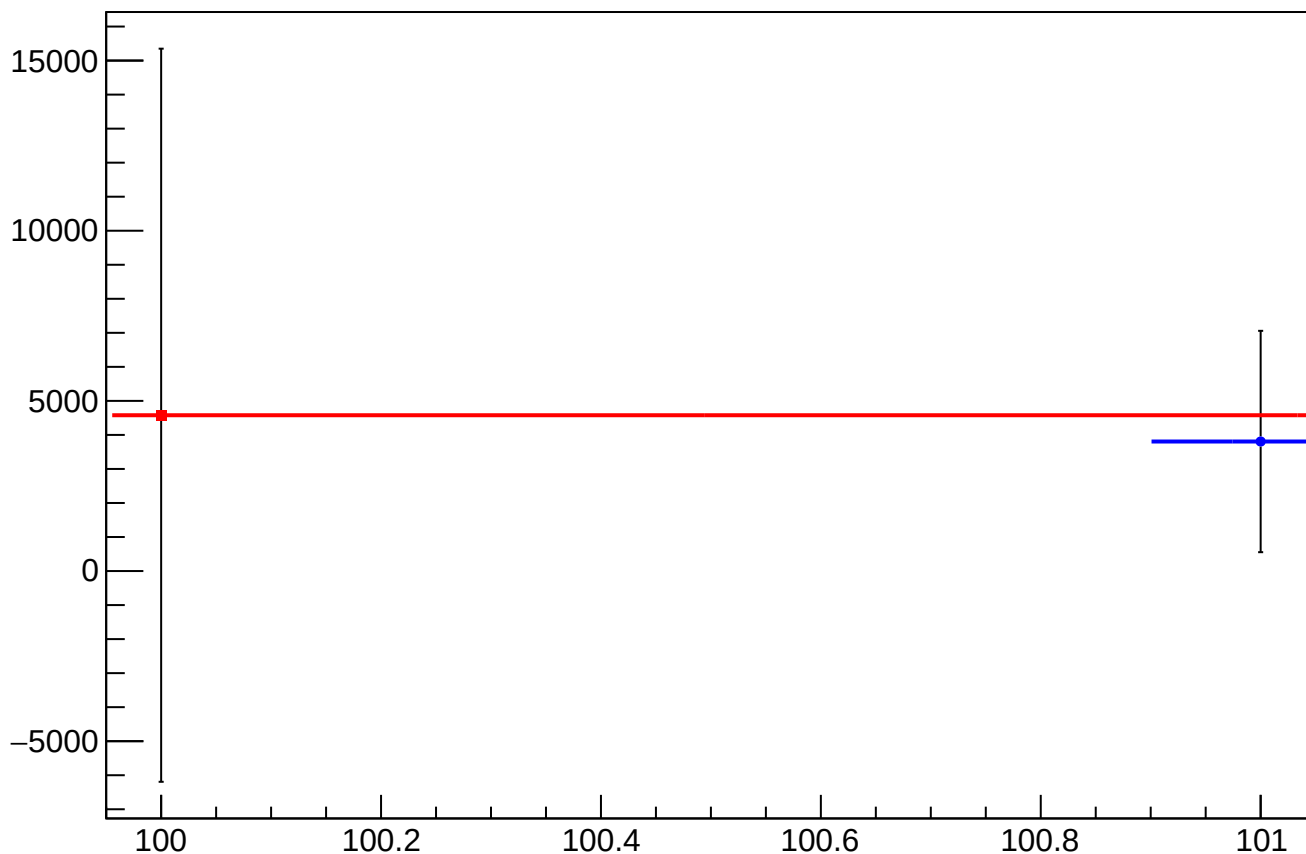
Right: 8200.478+/-6.799  $\chi^2/\text{NDF}$ : 1389.4/1

In: 8293.461+/-7.242  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8200.478+/-6.799  $\chi^2/\text{NDF}$ : 1389.4/1

cor\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 3806.251+/-3252.308  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4578.367+/-10771.482  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

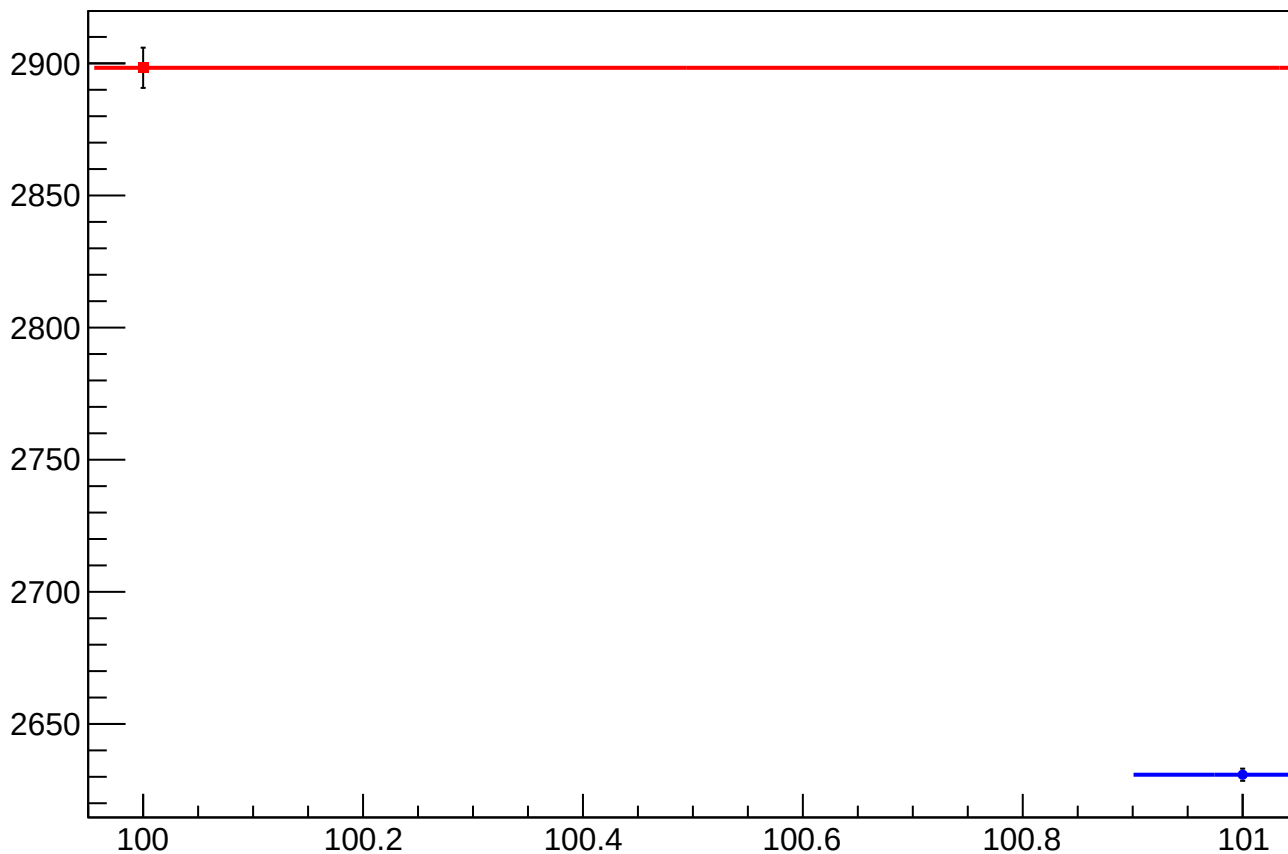
Right: 3870.760+/-3113.482  $\chi^2/\text{NDF}$ : 0.0/1

In: 3806.251+/-3252.308  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3870.760+/-3113.482  $\chi^2/\text{NDF}$ : 0.0/1

cor\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 2630.793 $\pm$ 2.300  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2898.322 $\pm$ 7.617  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

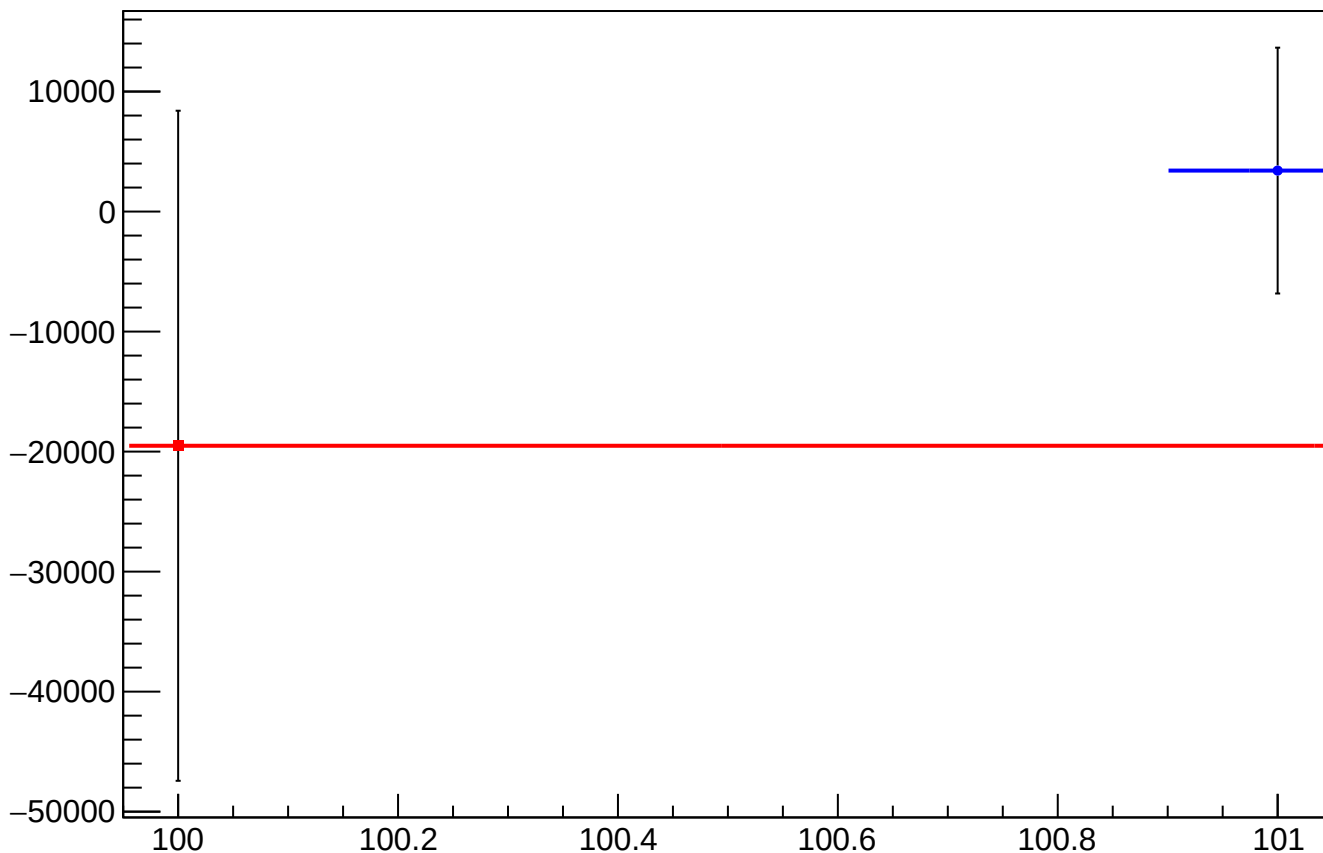
Right: 2653.144 $\pm$ 2.202  $\chi^2$ /NDF: 1130.7/1

In: 2630.793 $\pm$ 2.300  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2653.144 $\pm$ 2.202  $\chi^2$ /NDF: 1130.7/1

asym\_us\_avg\_at2lr\_avg\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 3414.597 $\pm$ 10241.059  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -19513.802 $\pm$ 27915.535  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

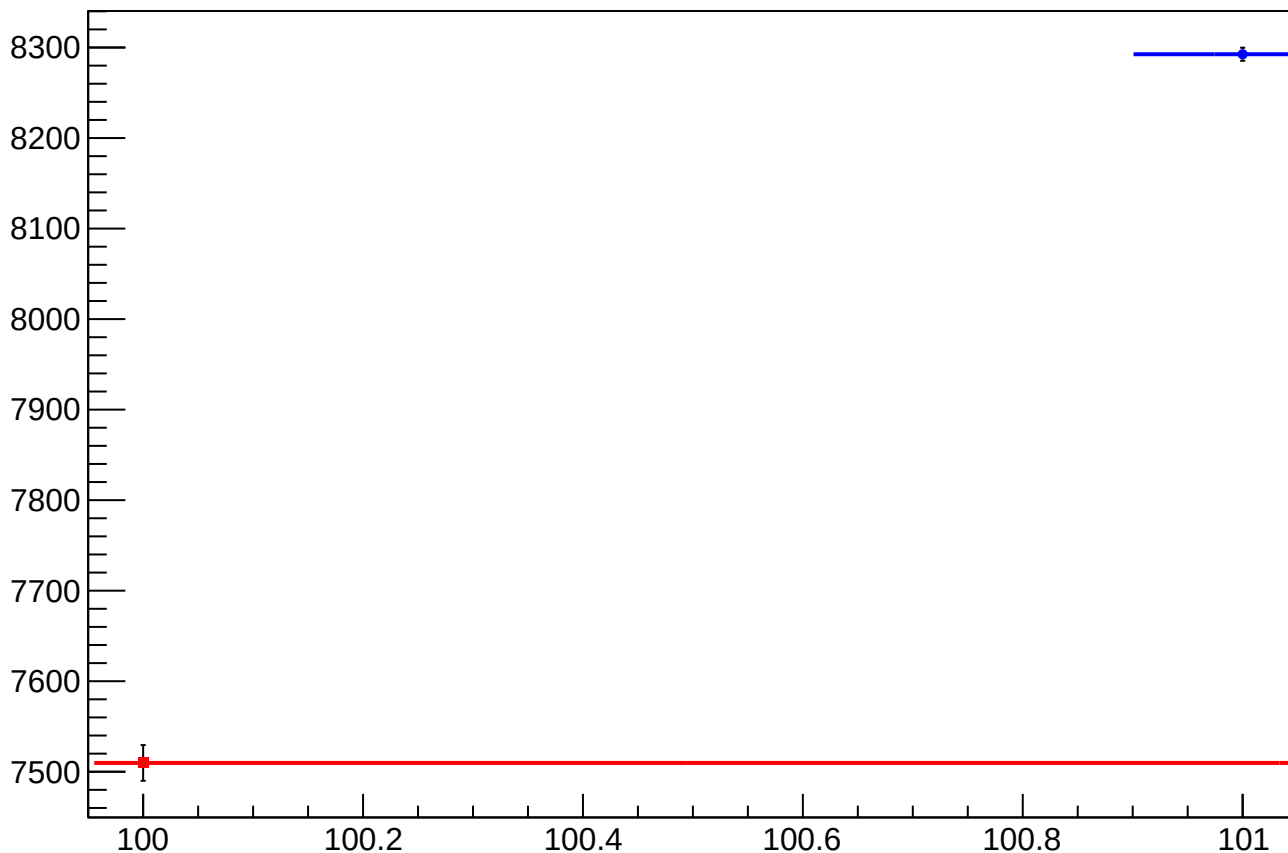
Right: 694.813 $\pm$ 9614.491  $\chi^2$ /NDF: 0.6/1

In: 3414.597 $\pm$ 10241.059  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 694.813 $\pm$ 9614.491  $\chi^2$ /NDF: 0.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 8292.589 $\pm$ 7.242  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7509.738 $\pm$ 19.739  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 8199.727 $\pm$ 6.798  $\chi^2$ /NDF: 1386.3/1

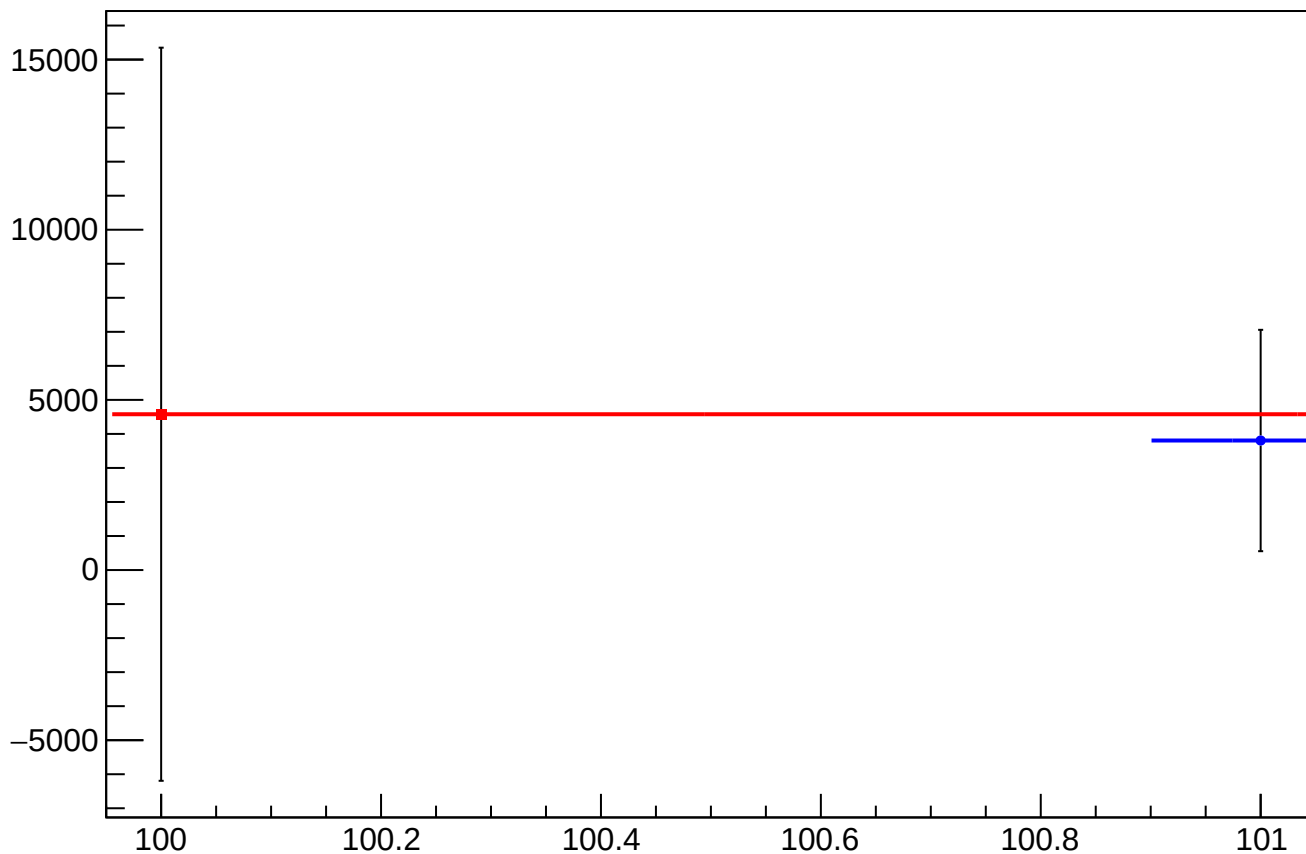
In: 8292.589 $\pm$ 7.242  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8199.727 $\pm$ 6.798  $\chi^2$ /NDF: 1386.3/1



eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 3806.251+/-3252.308  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4578.367+/-10771.482  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

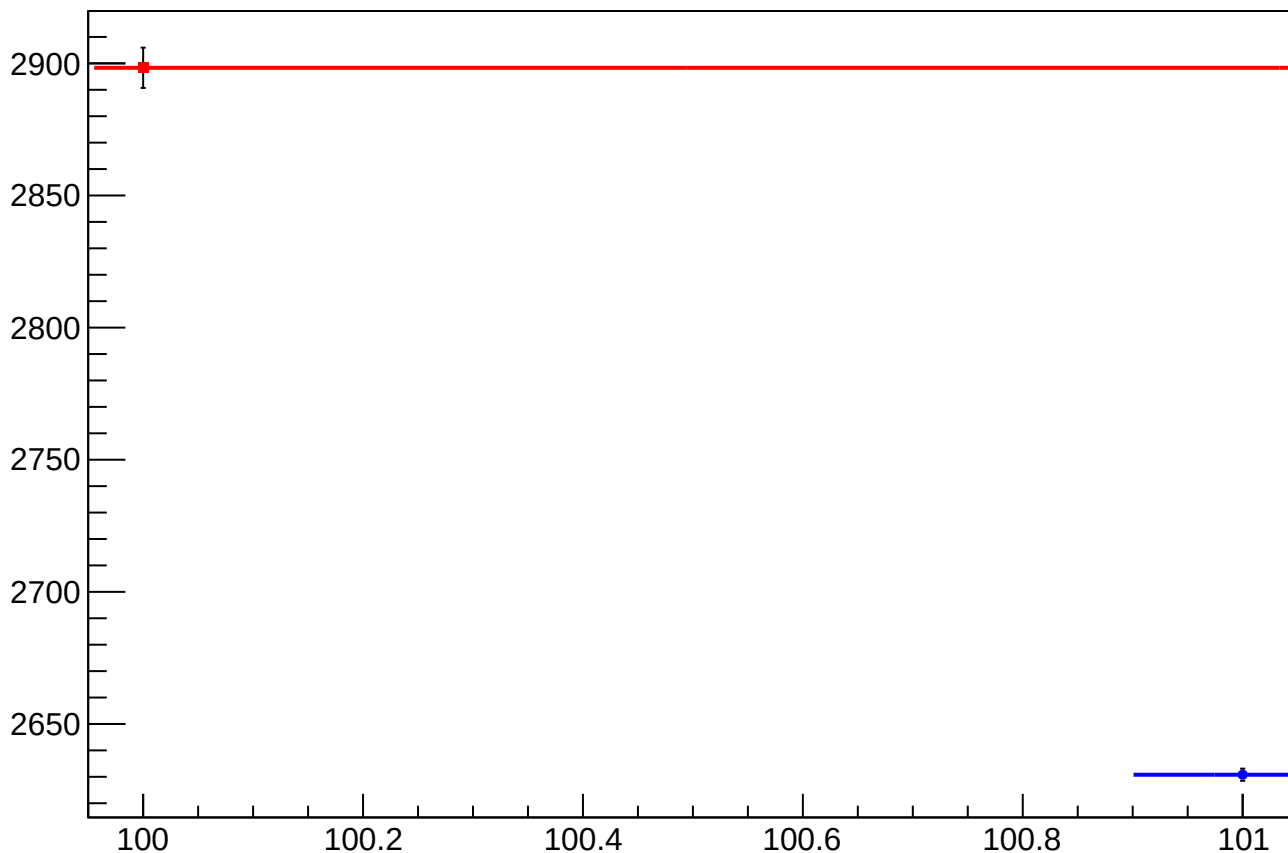
Right: 3870.760+/-3113.482  $\chi^2/\text{NDF}$ : 0.0/1

In: 3806.251+/-3252.308  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3870.760+/-3113.482  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 2630.793 +/- 2.300  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2898.322 +/- 7.617  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

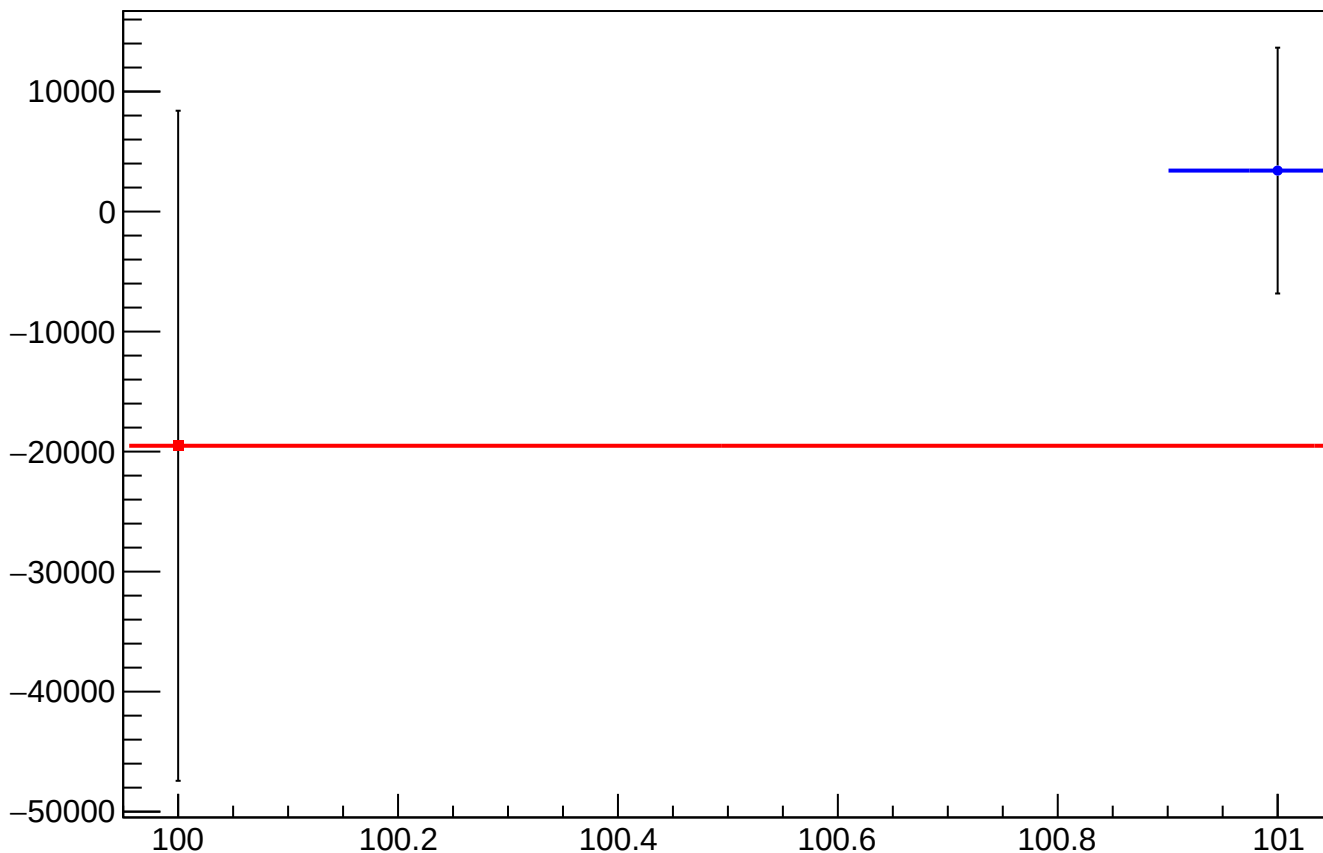
Right: 2653.144 +/- 2.202  $\chi^2/\text{NDF}$ : 1130.7/1

In: 2630.793 +/- 2.300  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2653.144 +/- 2.202  $\chi^2/\text{NDF}$ : 1130.7/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 3414.597 $\pm$ 10241.059  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -19513.802 $\pm$ 27915.535  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

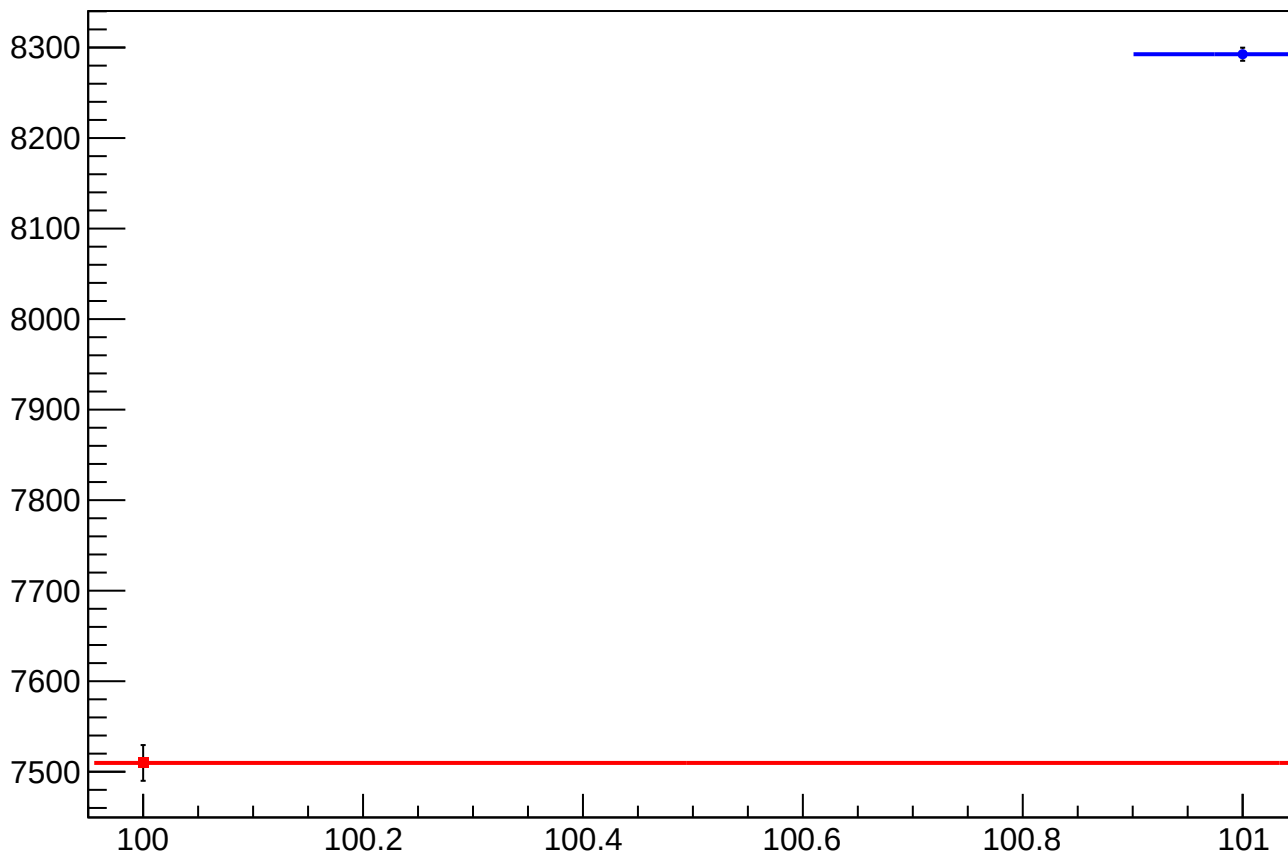
Right: 694.813 $\pm$ 9614.491  $\chi^2$ /NDF: 0.6/1

In: 3414.597 $\pm$ 10241.059  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 694.813 $\pm$ 9614.491  $\chi^2$ /NDF: 0.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 8292.589+/-7.242  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7509.738+/-19.739  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

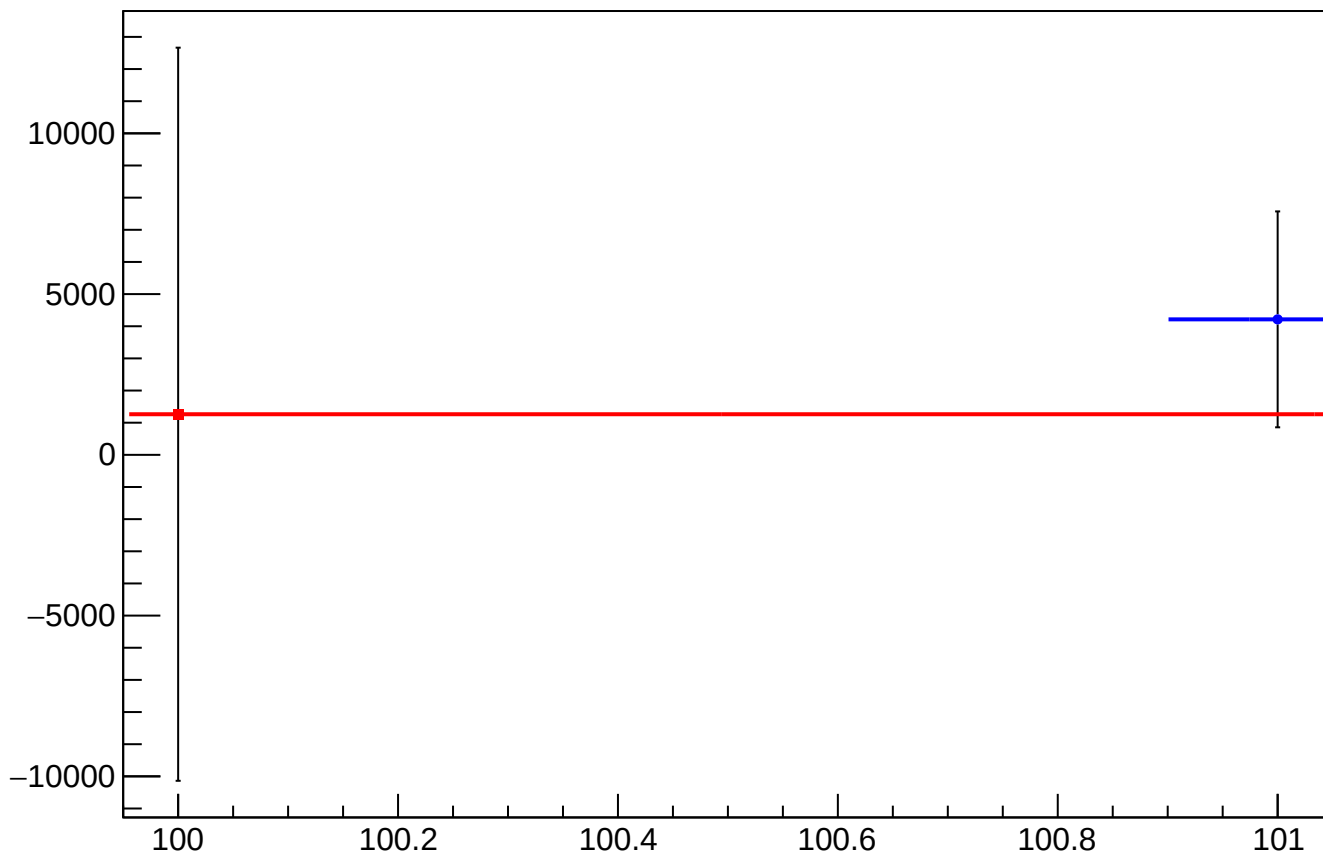
Right: 8199.727+/-6.798  $\chi^2/\text{NDF}$ : 1386.3/1

In: 8292.589+/-7.242  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8199.727+/-6.798  $\chi^2/\text{NDF}$ : 1386.3/1

dit\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 4214.195+/-3357.798  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1263.250+/-11401.635  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

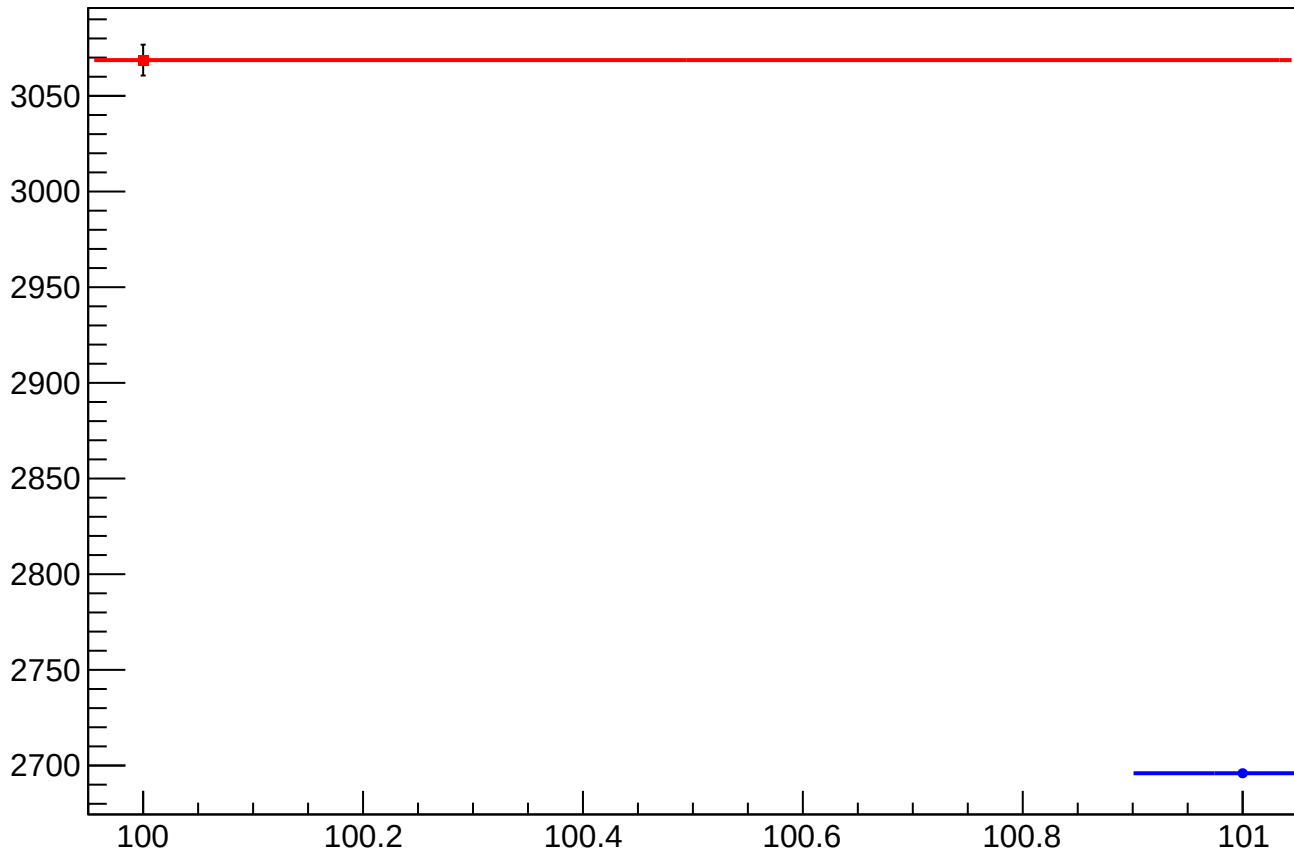
Right: 3978.683+/-3221.021  $\chi^2/\text{NDF}$ : 0.1/1

In: 4214.195+/-3357.798  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3978.683+/-3221.021  $\chi^2/\text{NDF}$ : 0.1/1

dit\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 2695.962 $\pm$ 2.374  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3068.695 $\pm$ 8.062  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

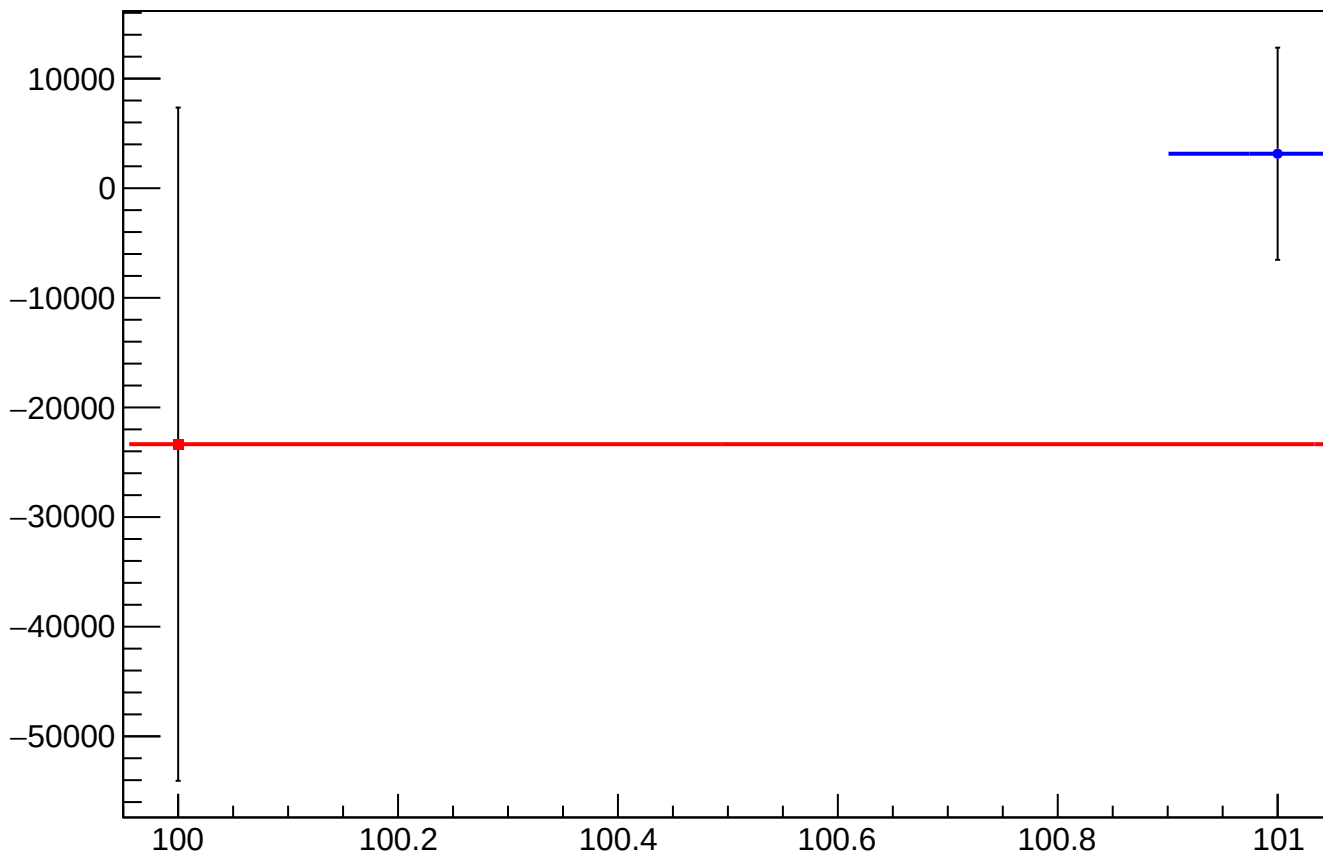
Right: 2725.709 $\pm$ 2.278  $\chi^2$ /NDF: 1966.8/1

In: 2695.962 $\pm$ 2.374  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2725.709 $\pm$ 2.278  $\chi^2$ /NDF: 1966.8/1

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 3145.009+/-9676.079  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -23350.326+/-30707.522  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

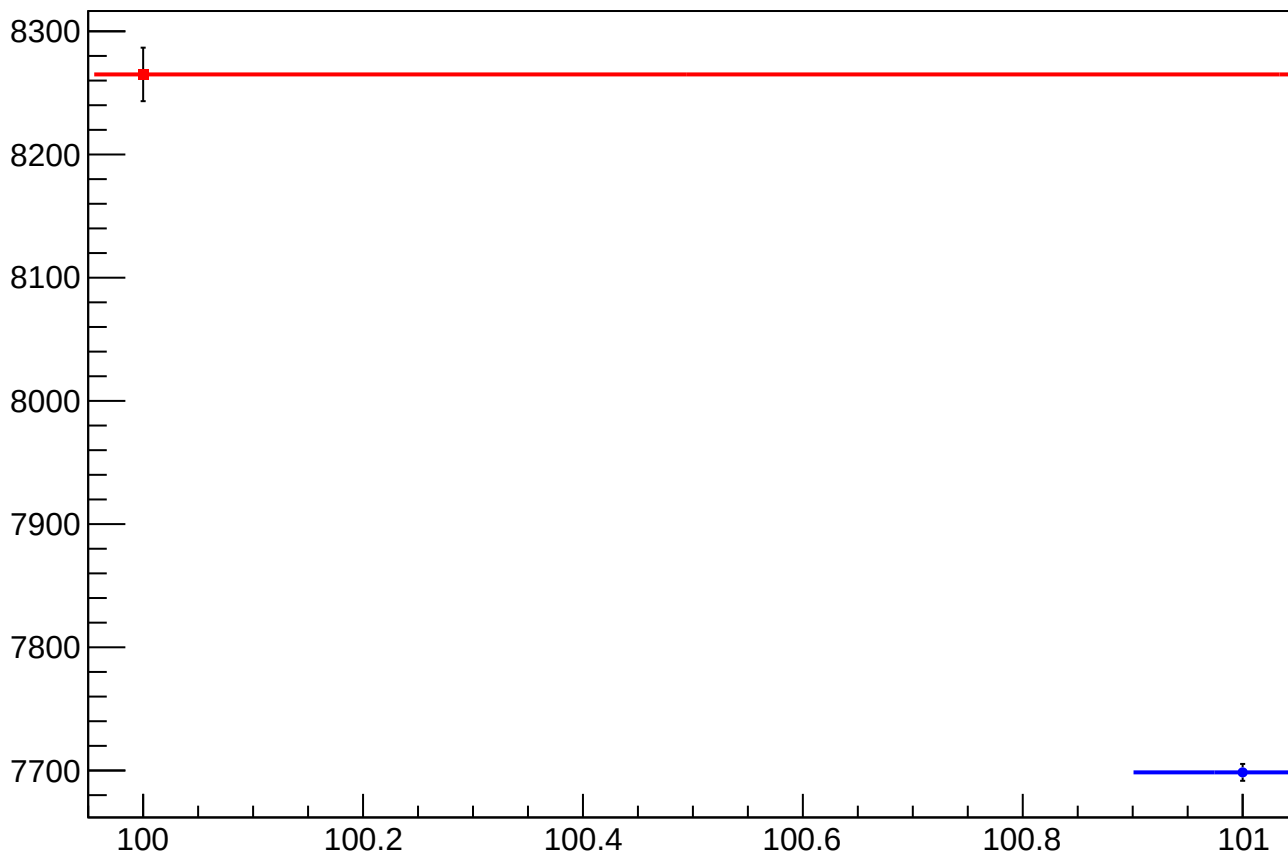
Right: 751.880+/-9228.755  $\chi^2$ /NDF: 0.7/1

In: 3145.009+/-9676.079  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 751.880+/-9228.755  $\chi^2$ /NDF: 0.7/1

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 7698.485+/-6.842  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8264.994+/-21.713  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 7749.654+/-6.526  $\chi^2/\text{NDF}$ : 619.2/1

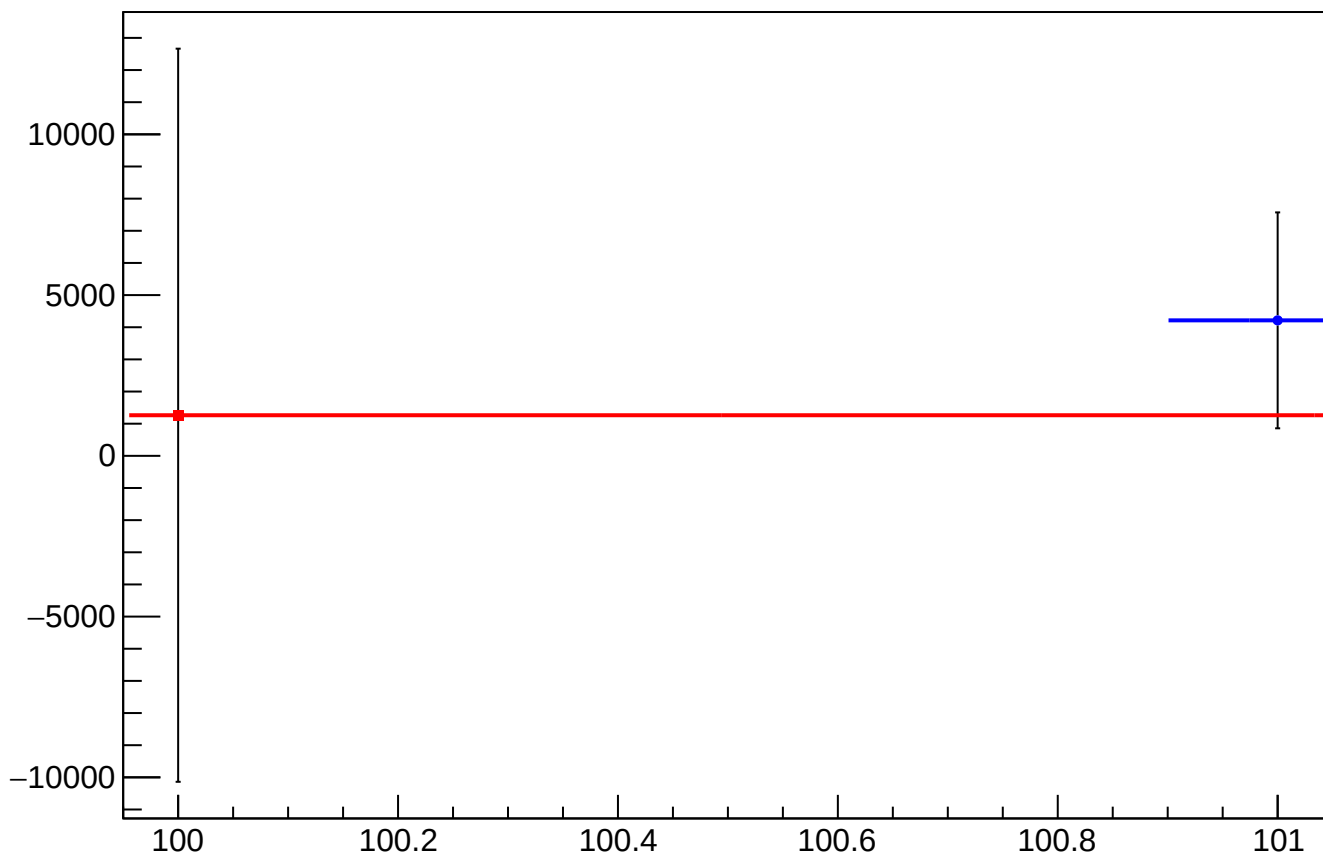
In: 7698.485+/-6.842  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7749.654+/-6.526  $\chi^2/\text{NDF}$ : 619.2/1



eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 4214.236+/-3357.797  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1263.079+/-11401.634  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

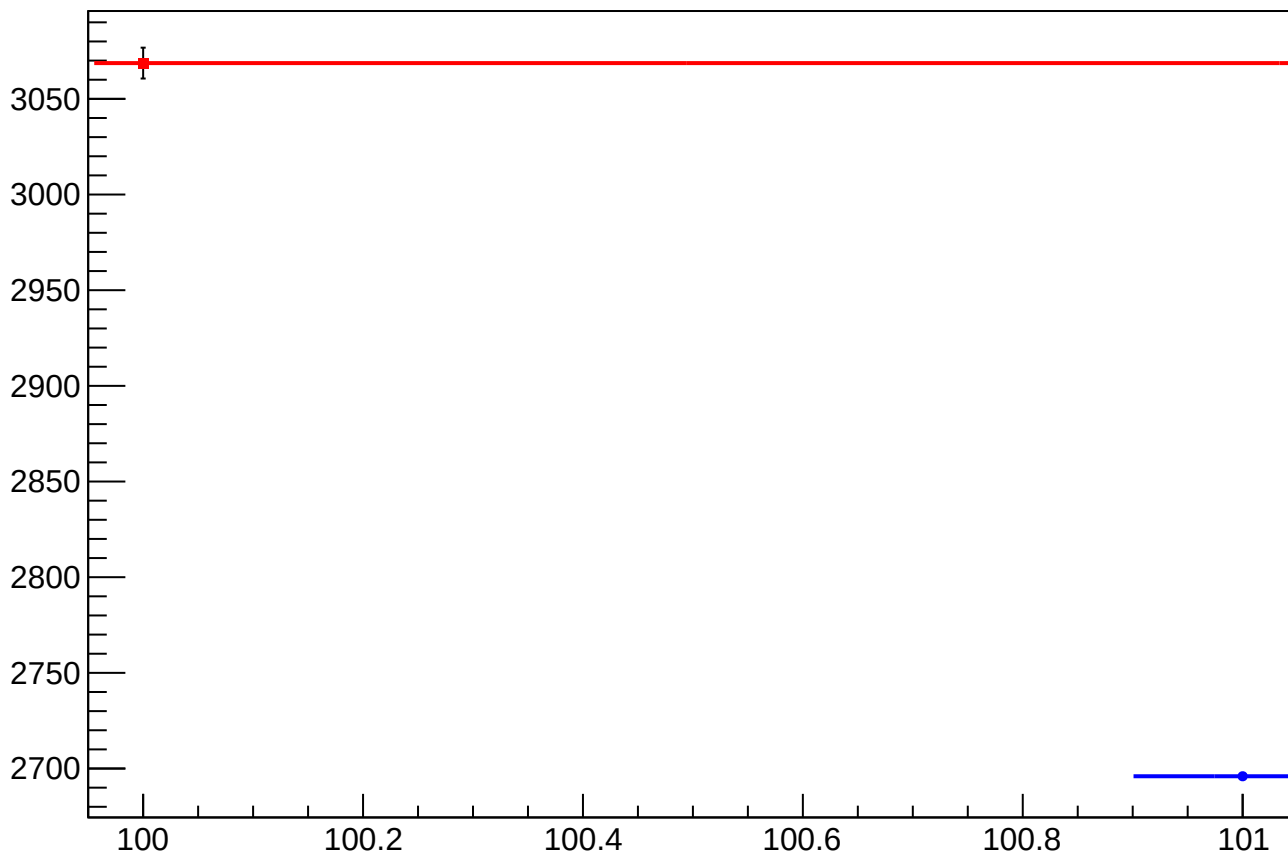
Right: 3978.707+/-3221.020  $\chi^2/\text{NDF}$ : 0.1/1

In: 4214.236+/-3357.797  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3978.707+/-3221.020  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_dit\_asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 2695.961+/-2.374  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3068.694+/-8.062  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

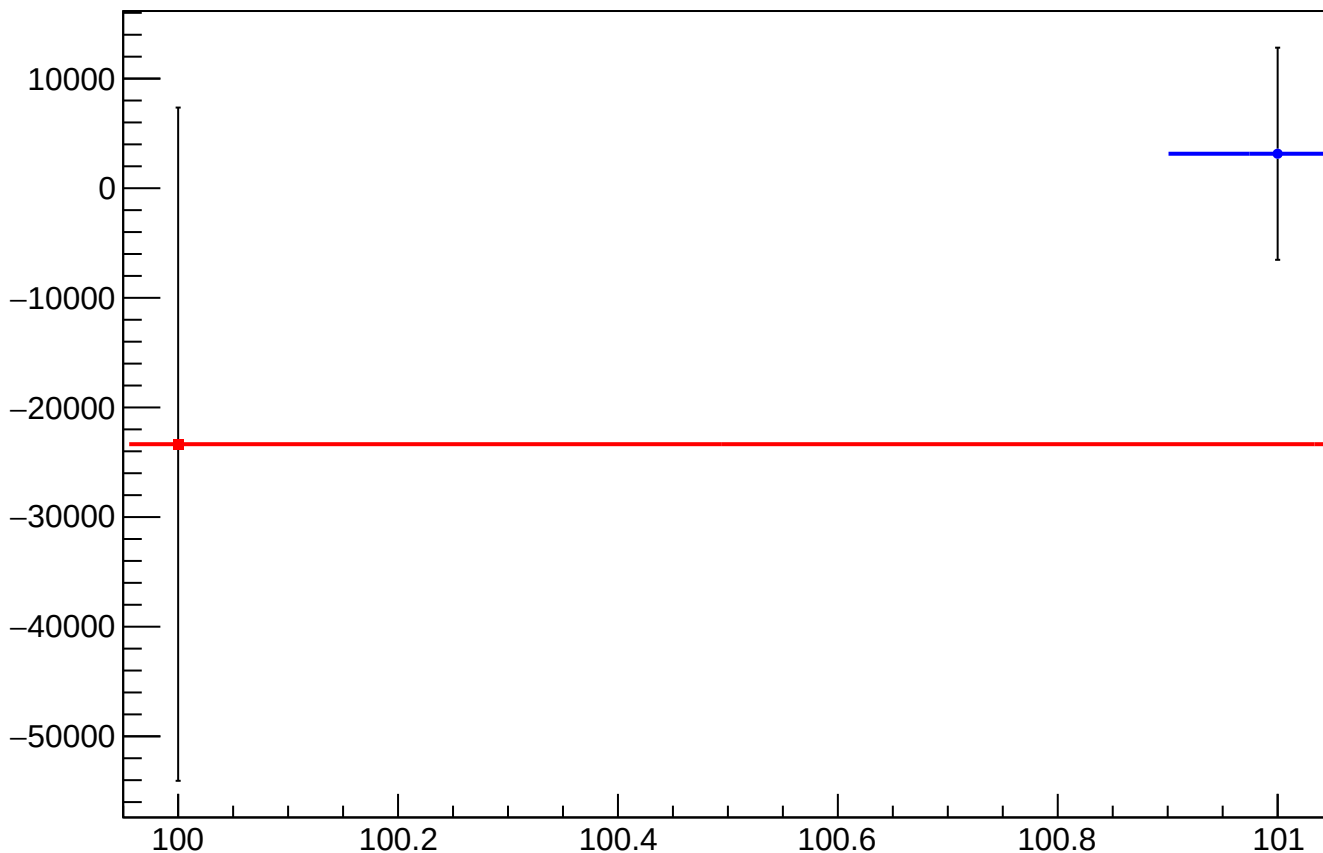
Right: 2725.708+/-2.278  $\chi^2/\text{NDF}$ : 1966.8/1

In: 2695.961+/-2.374  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2725.708+/-2.278  $\chi^2/\text{NDF}$ : 1966.8/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 3145.035+/-9676.070  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -23350.480+/-30707.471  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

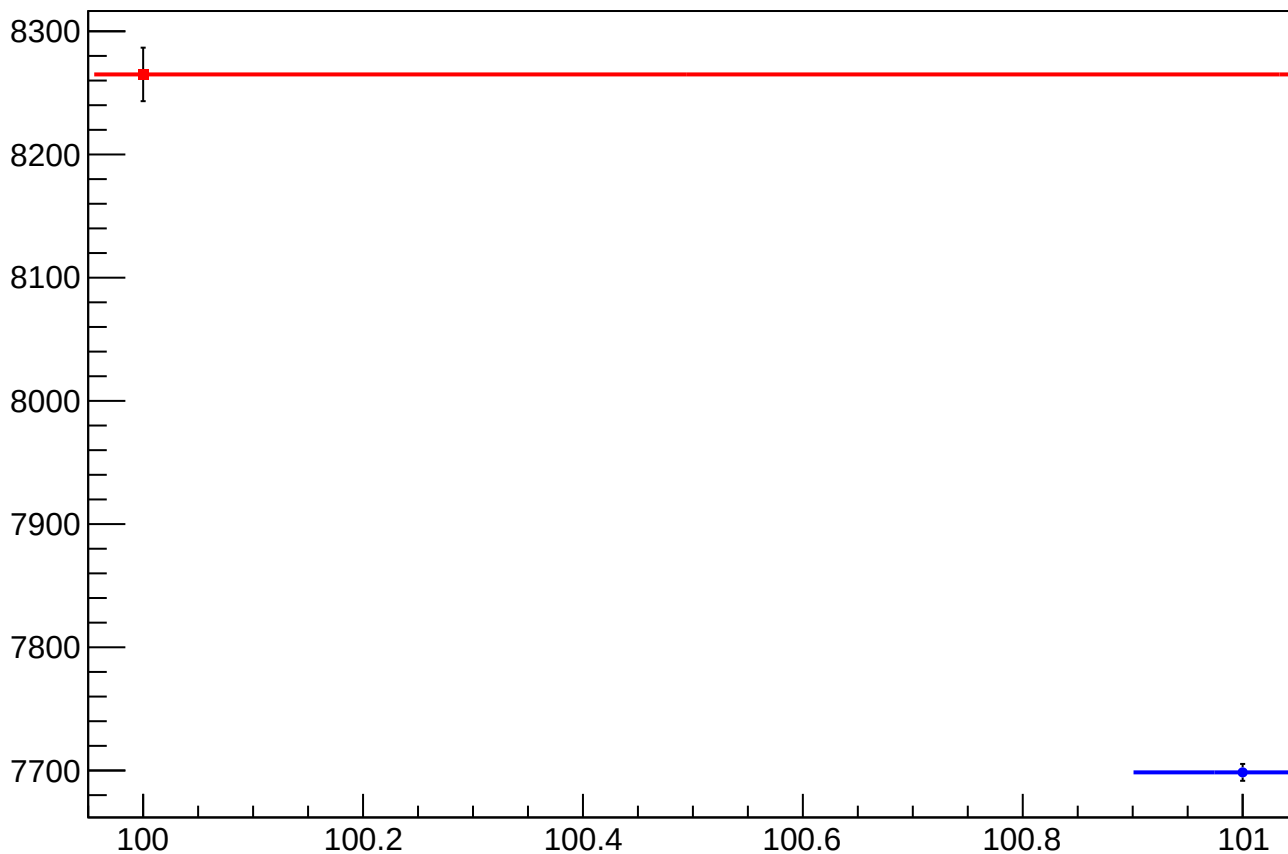
Right: 751.887+/-9228.746  $\chi^2/\text{NDF}$ : 0.7/1

In: 3145.035+/-9676.070  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 751.887+/-9228.746  $\chi^2/\text{NDF}$ : 0.7/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 7698.479+/-6.842  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8264.981+/-21.713  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

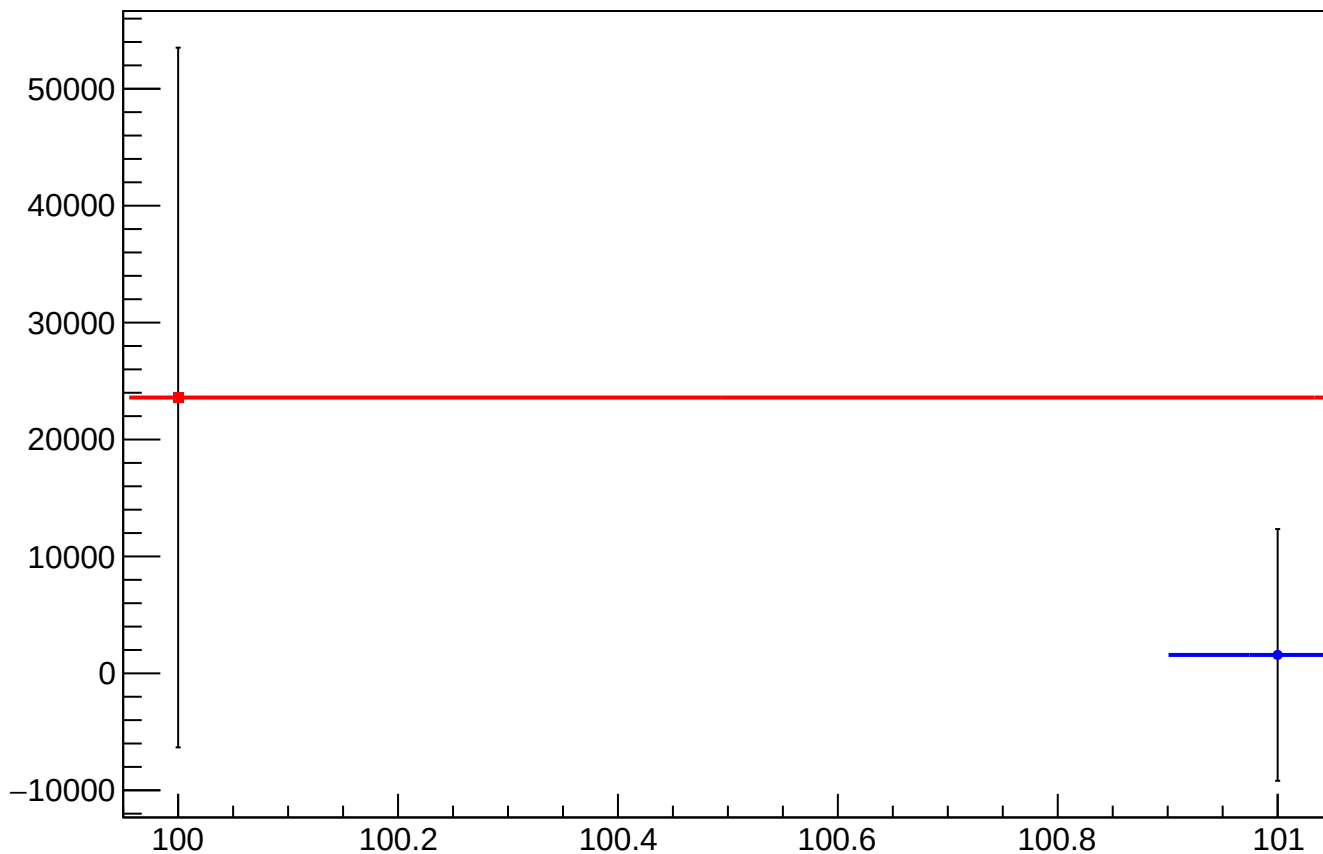
Right: 7749.647+/-6.526  $\chi^2/\text{NDF}$ : 619.2/1

In: 7698.479+/-6.842  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7749.647+/-6.526  $\chi^2/\text{NDF}$ : 619.2/1

asym\_us\_avg\_at2lr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: 1576.338+/-10765.159  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23592.626+/-29922.832  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

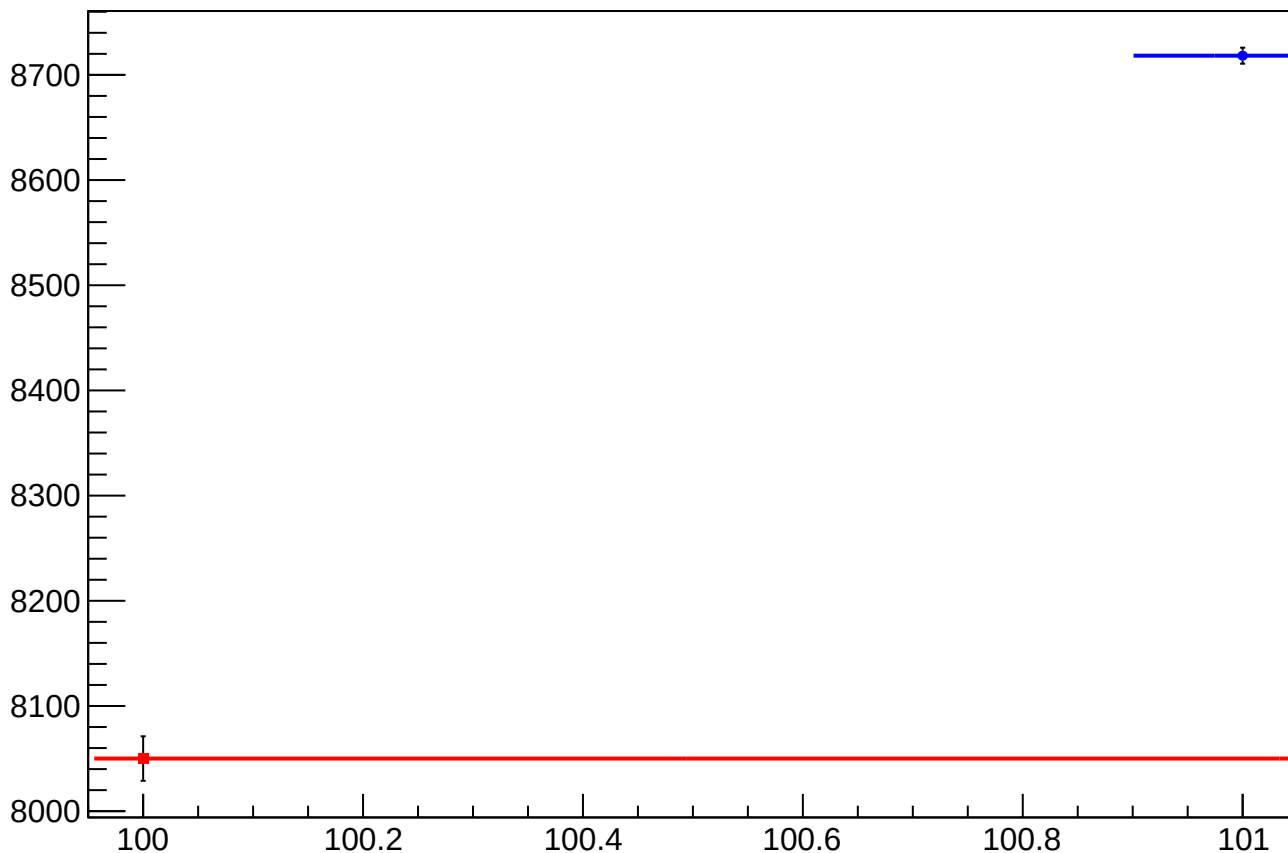
Right: 4099.355+/-10129.564  $\chi^2/\text{NDF}$ : 0.5/1

In: 1576.338+/-10765.159  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4099.355+/-10129.564  $\chi^2/\text{NDF}$ : 0.5/1

asym\_us\_avg\_at2lr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 8718.256 +/- 7.612  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8050.037 +/- 21.159  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

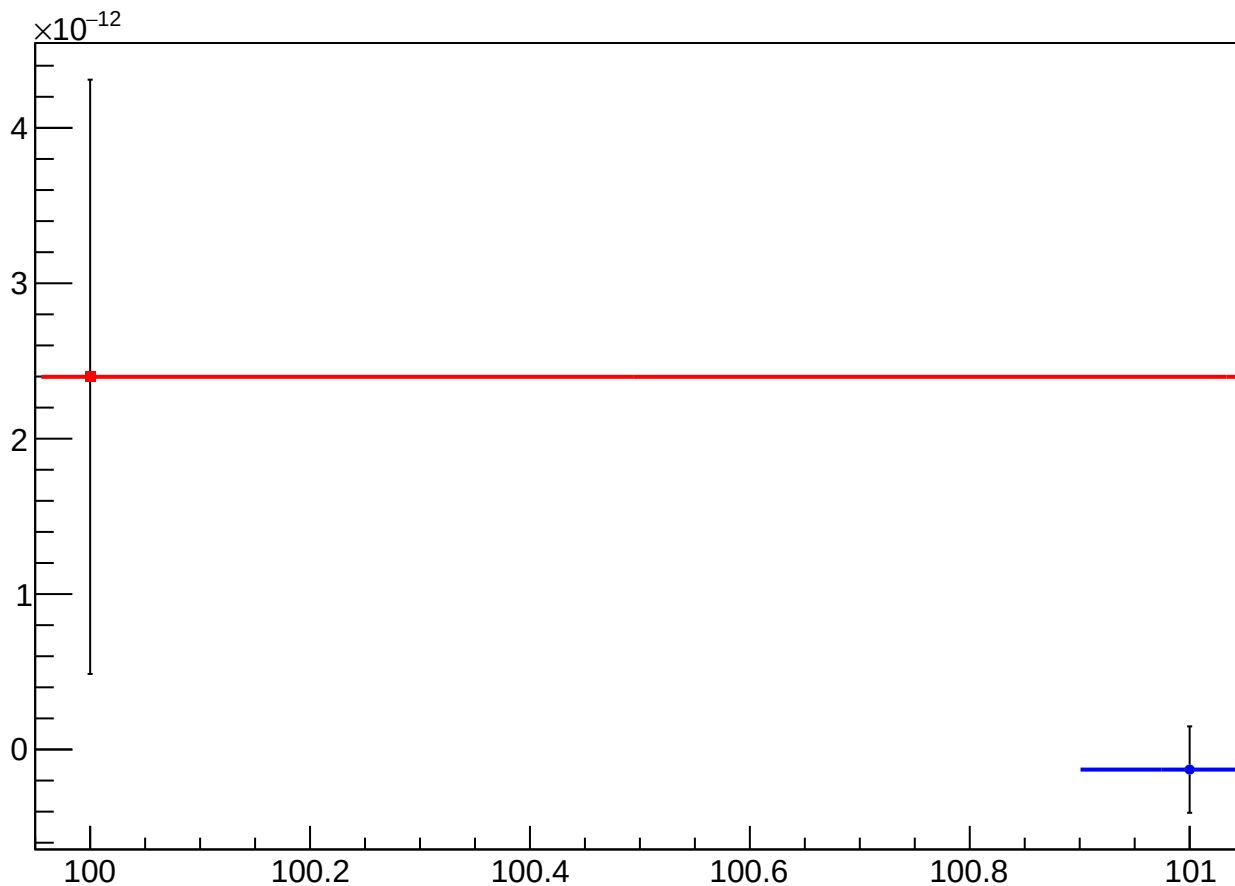
Right: 8641.680 +/- 7.163  $\chi^2/\text{NDF}$ : 883.1/1

In: 8718.256 +/- 7.612  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8641.680 +/- 7.163  $\chi^2/\text{NDF}$ : 883.1/1

asym\_us\_avg\_at2lr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

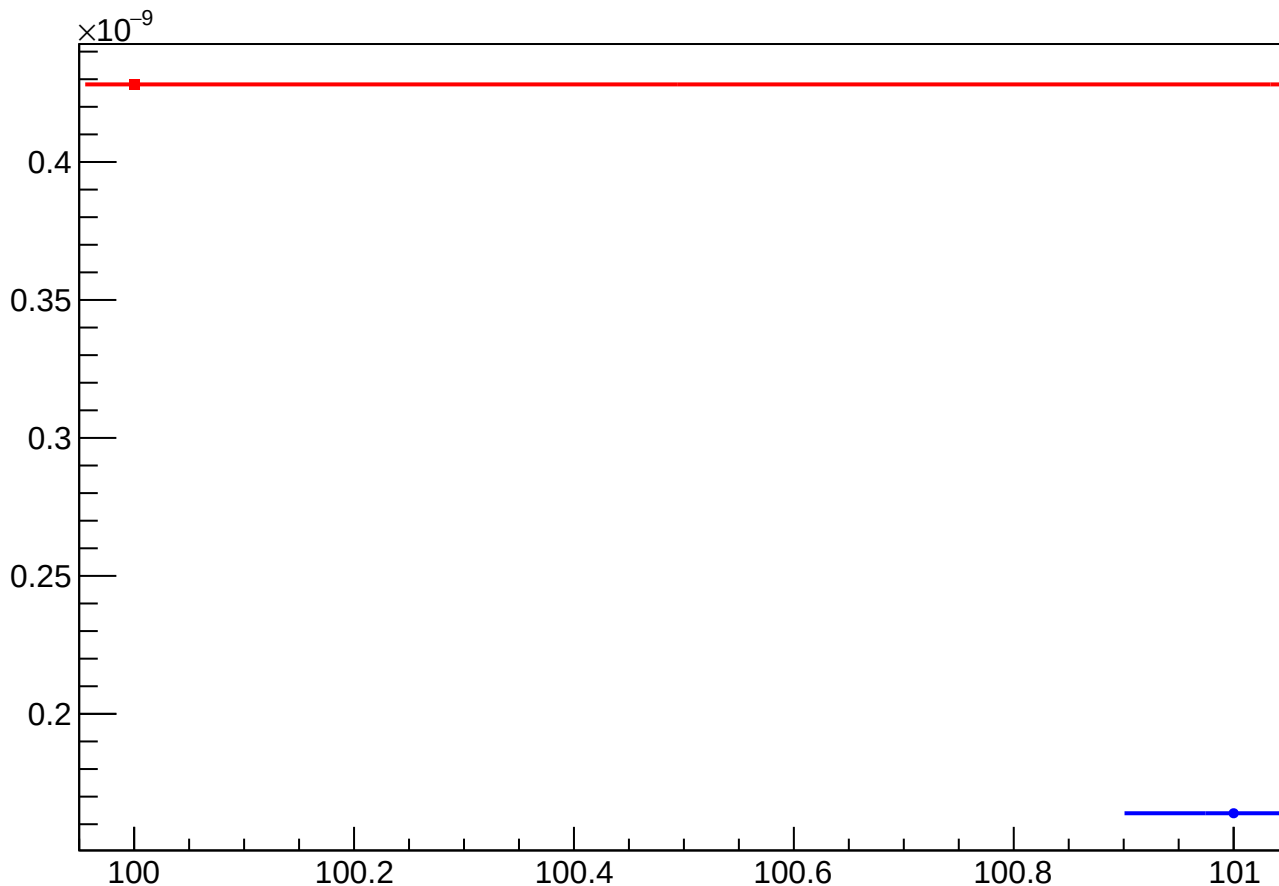
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.7/1

asym\_us\_avg\_at2lr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37377.3/1

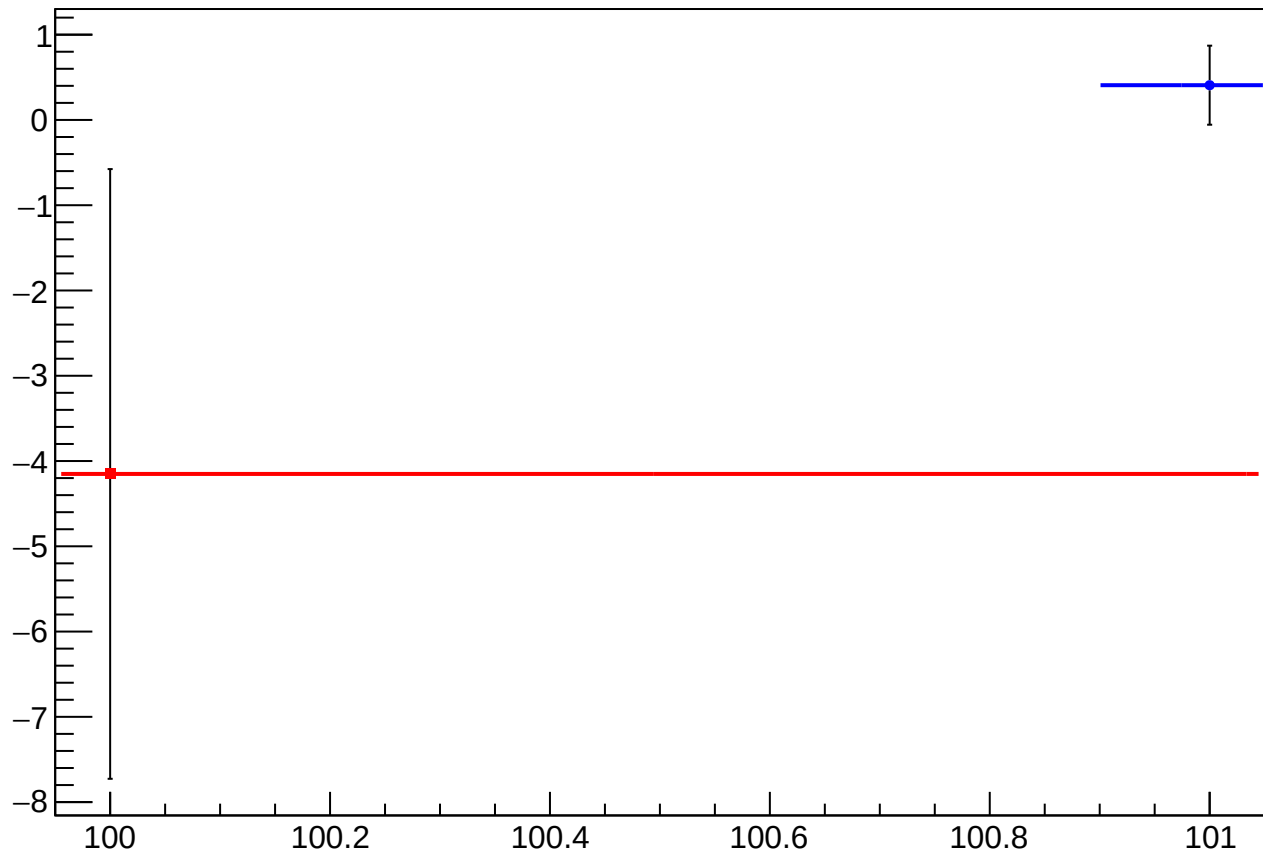
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37377.3/1



asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.408 $\pm$ 0.463  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.151 $\pm$ 3.575  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

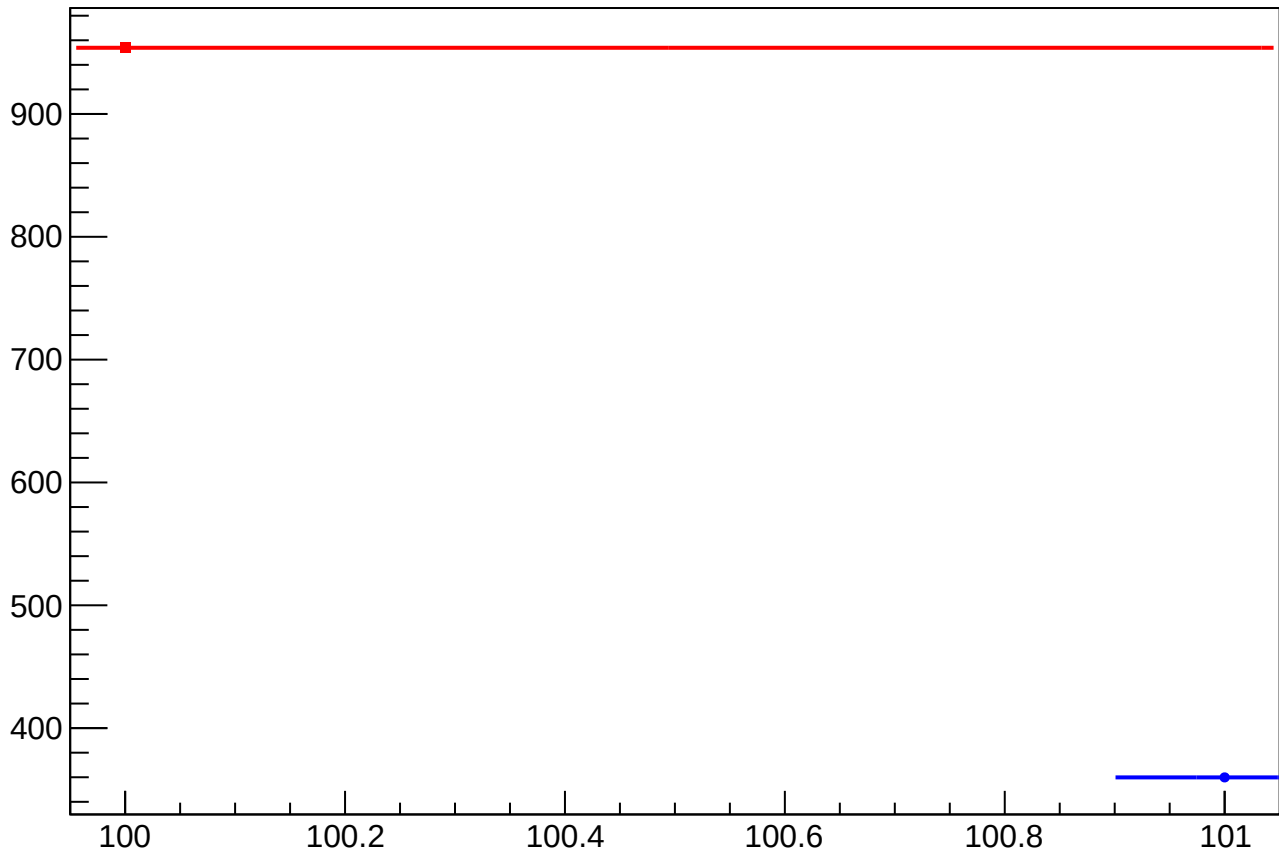
Right: 0.332 $\pm$ 0.460  $\chi^2$ /NDF: 1.6/1

In: 0.408 $\pm$ 0.463  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.332 $\pm$ 0.460  $\chi^2$ /NDF: 1.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 359.883 $\pm$ 0.328  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 953.893 $\pm$ 2.528  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

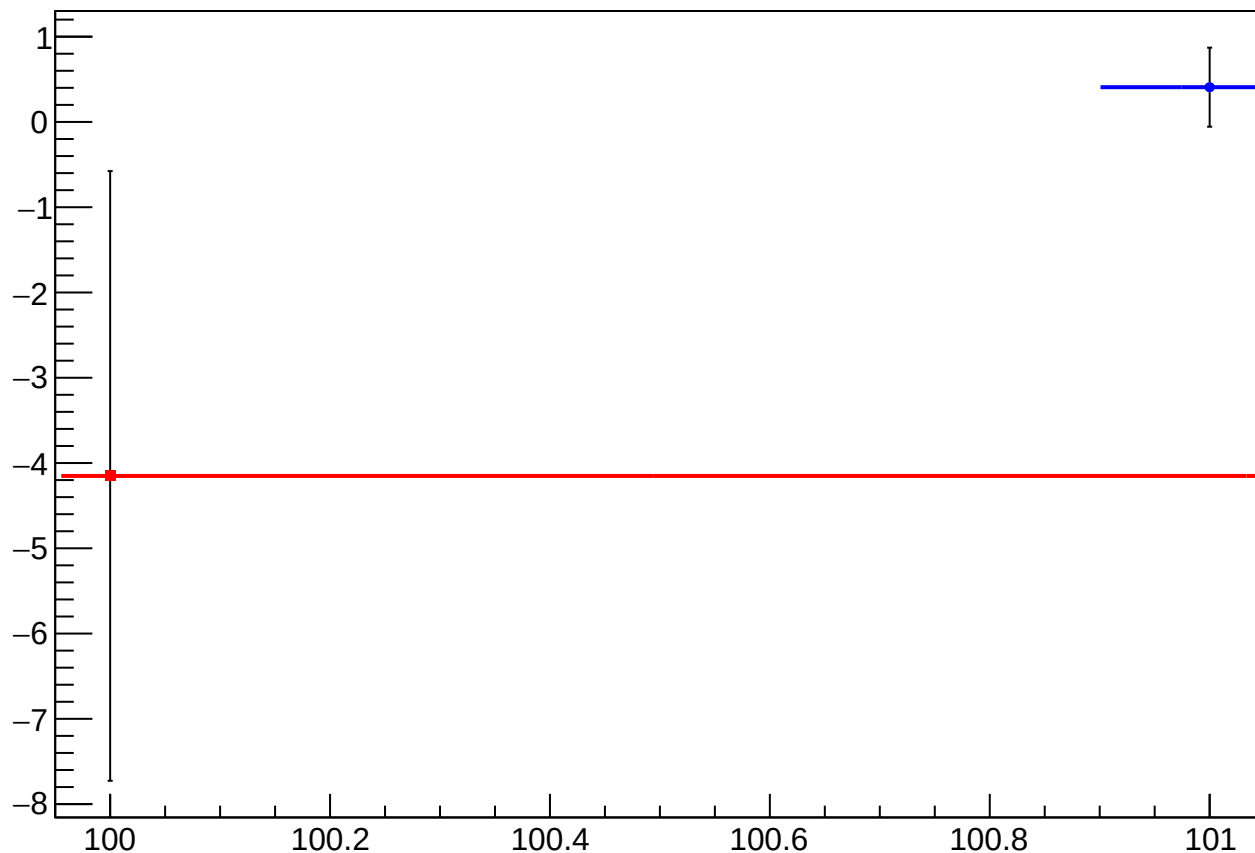
Right: 369.701 $\pm$ 0.325  $\chi^2$ /NDF: 54296.6/1

In: 359.883 $\pm$ 0.328  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 369.701 $\pm$ 0.325  $\chi^2$ /NDF: 54296.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.408 $\pm$ 0.463  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4.151 $\pm$ 3.575  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

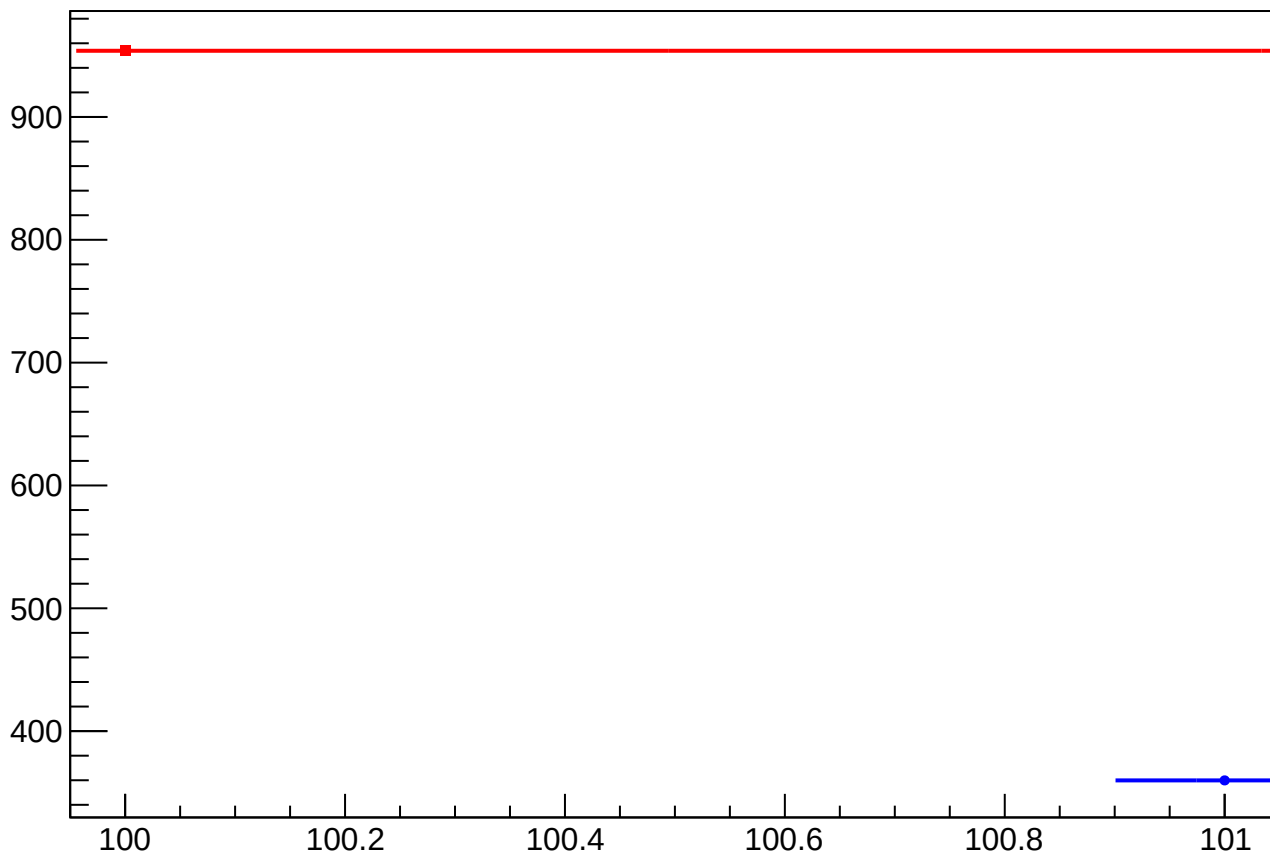
Right: 0.332 $\pm$ 0.460  $\chi^2$ /NDF: 1.6/1

In: 0.408 $\pm$ 0.463  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.332 $\pm$ 0.460  $\chi^2$ /NDF: 1.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 359.883+/-0.328  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 953.893+/-2.528  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

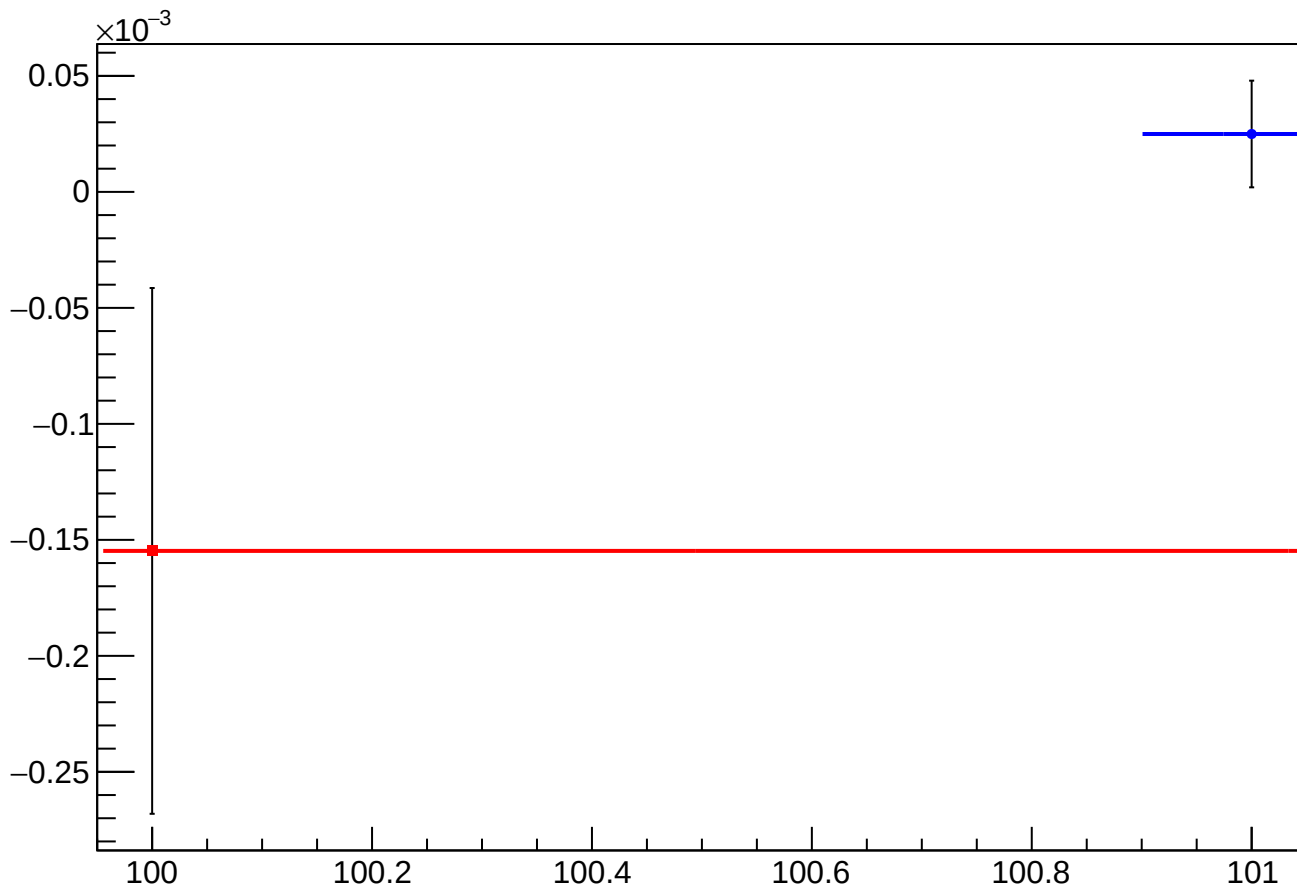
Right: 369.701+/-0.325  $\chi^2/\text{NDF}$ : 54296.6/1

In: 359.883+/-0.328  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 369.701+/-0.325  $\chi^2/\text{NDF}$ : 54296.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

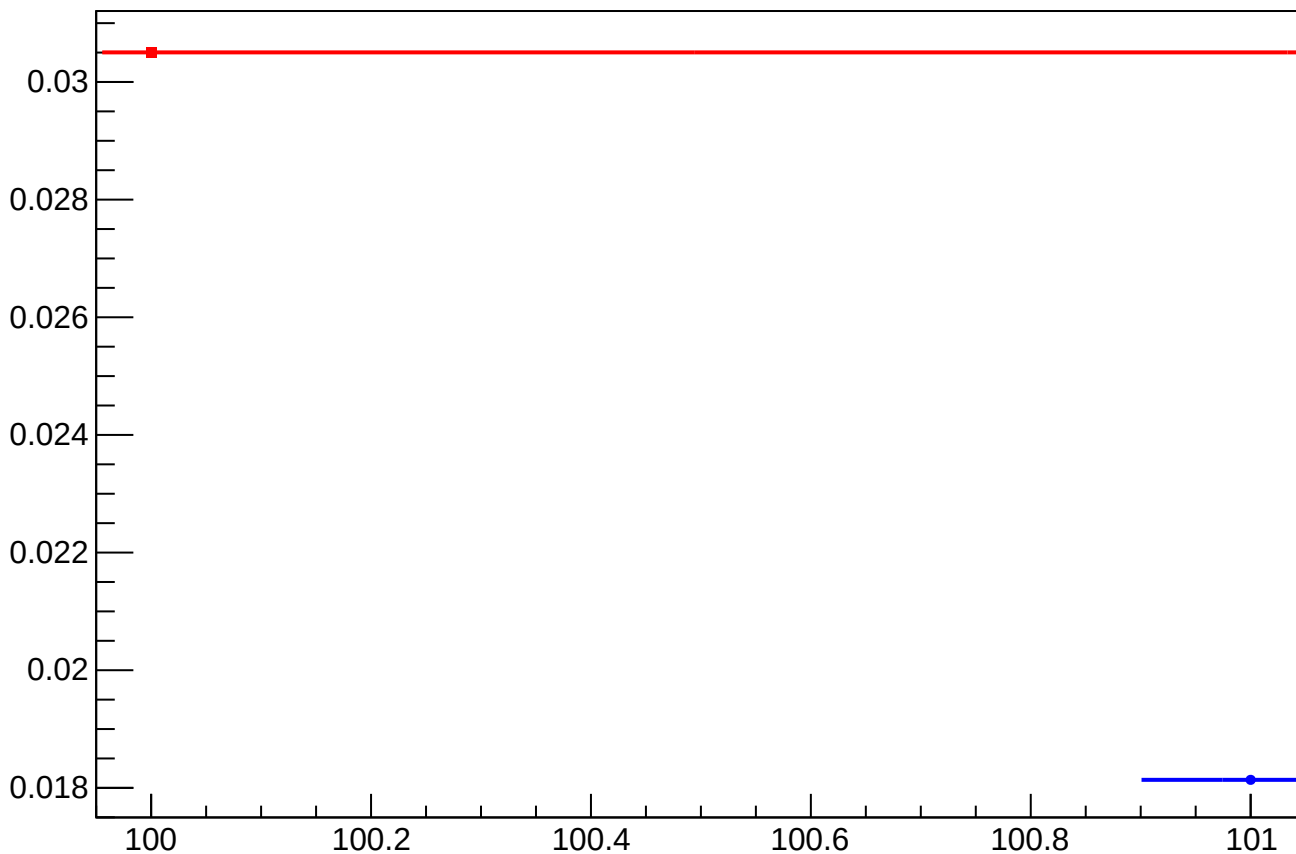
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.4/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

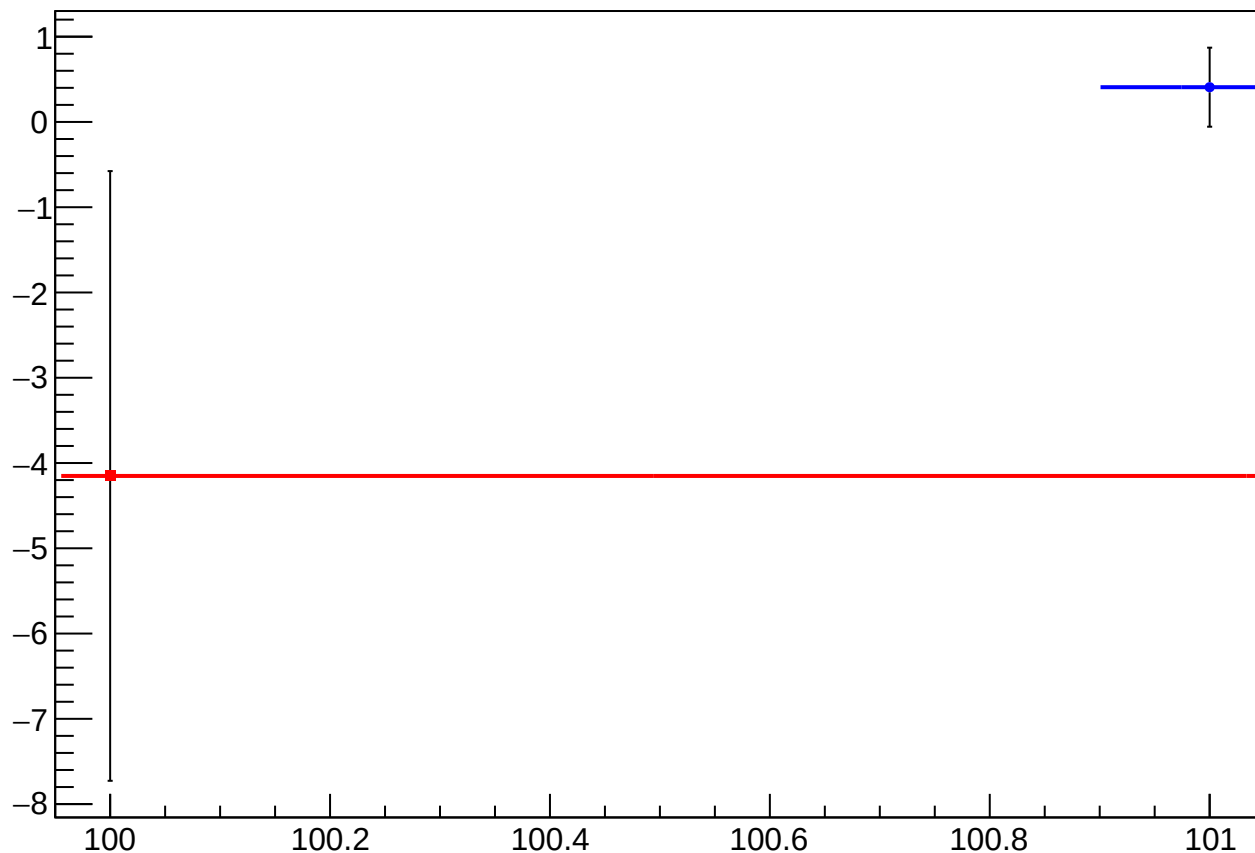
Right: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 22874.6/1

In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 22874.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.408+/-0.463  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.152+/-3.575  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

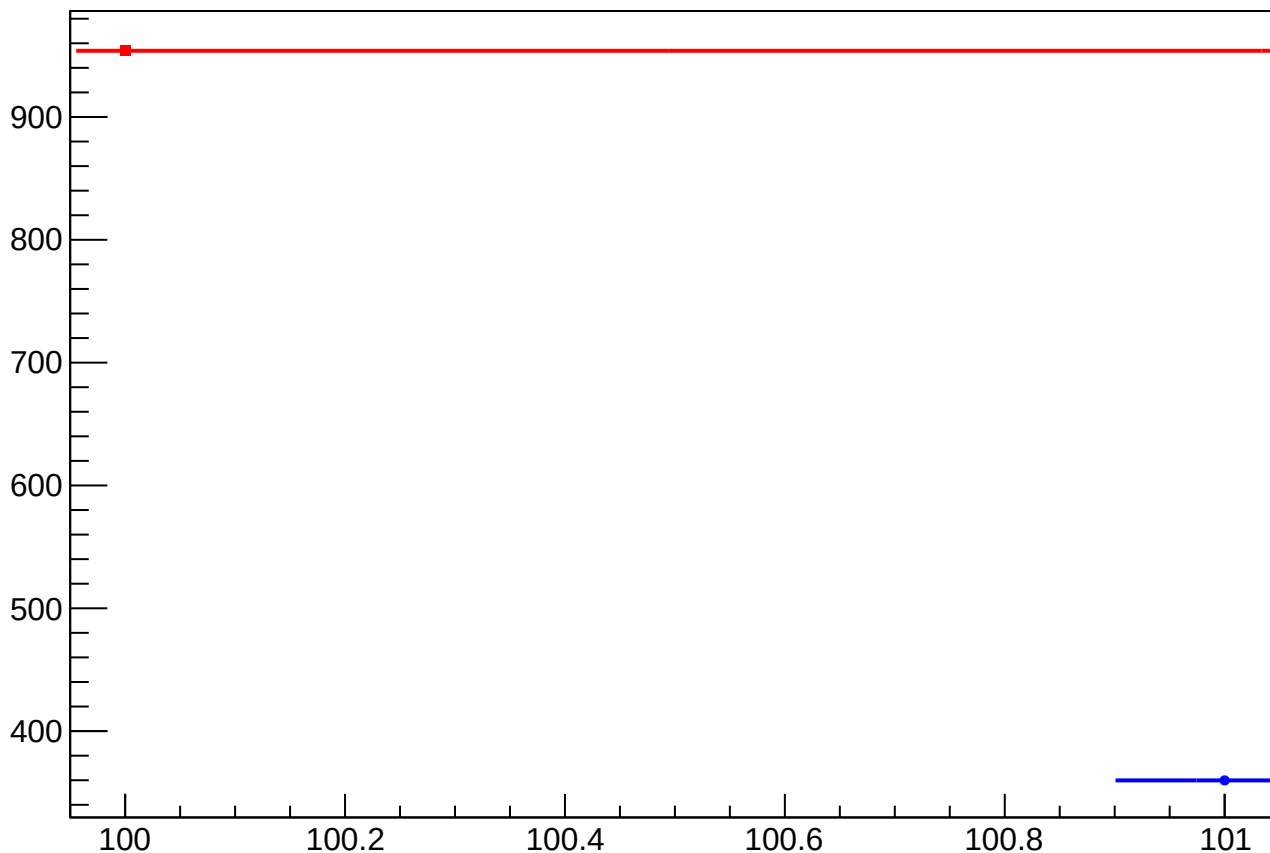
Right: 0.332+/-0.460  $\chi^2/\text{NDF}$ : 1.6/1

In: 0.408+/-0.463  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.332+/-0.460  $\chi^2/\text{NDF}$ : 1.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 359.878 $\pm$ 0.328  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 953.895 $\pm$ 2.528  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 369.695 $\pm$ 0.325  $\chi^2$ /NDF: 54297.8/1

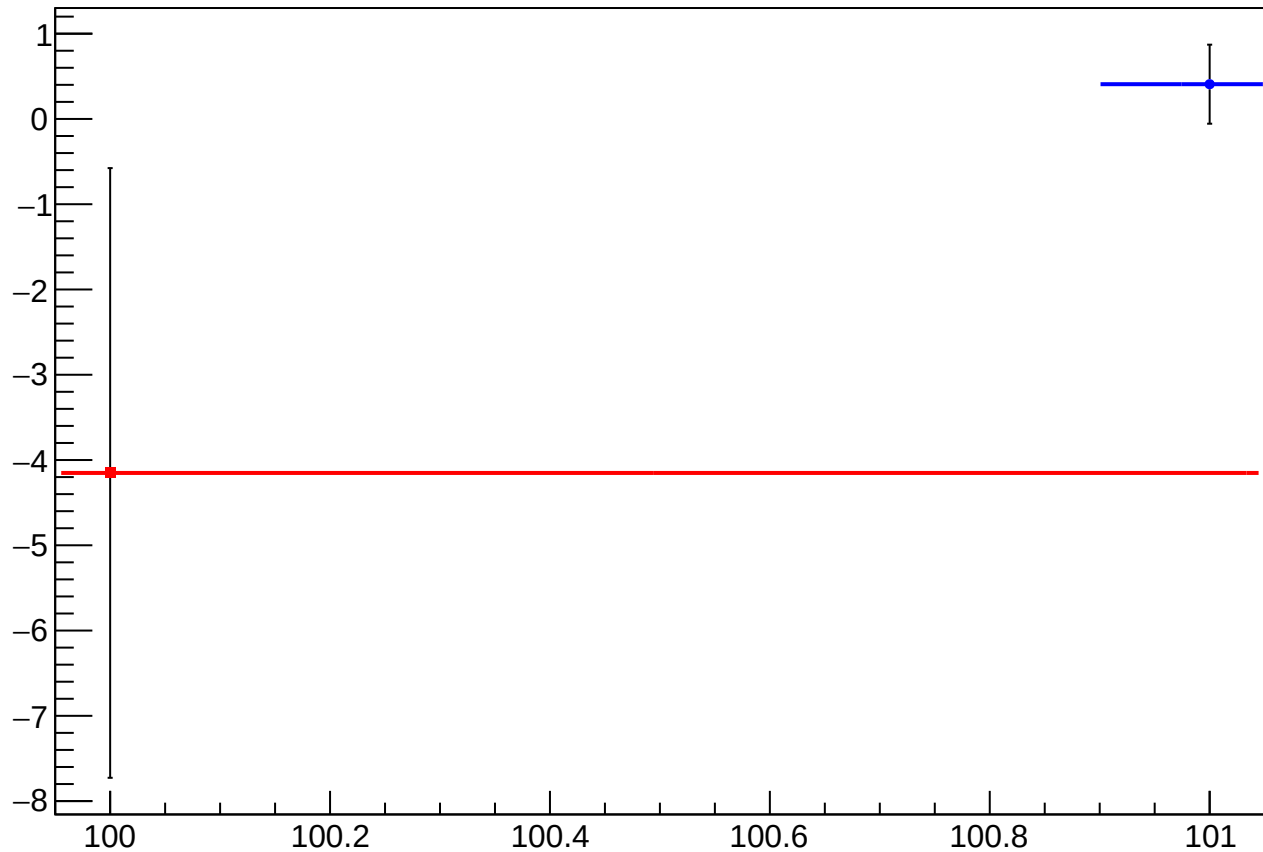
In: 359.878 $\pm$ 0.328  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 369.695 $\pm$ 0.325  $\chi^2$ /NDF: 54297.8/1



asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.408+/-0.463  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.152+/-3.575  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

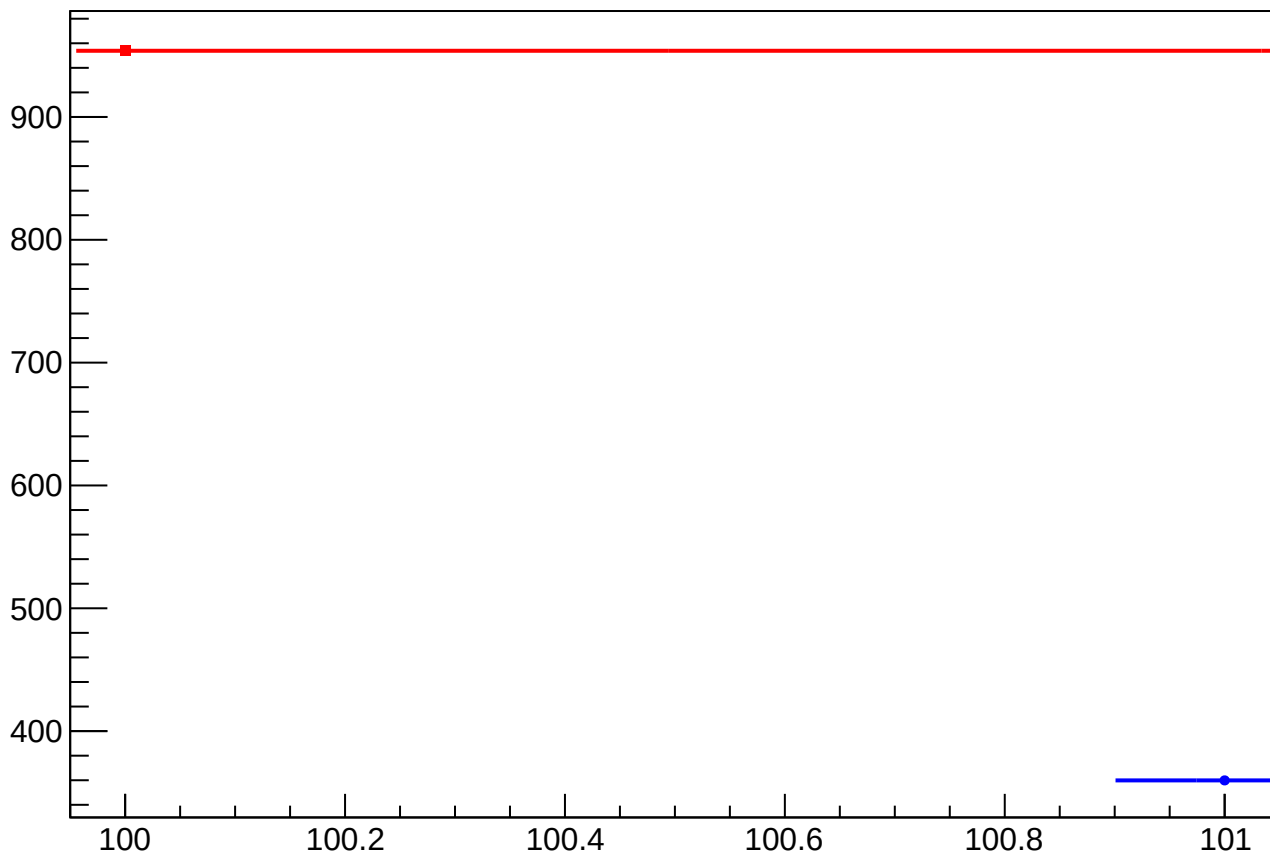
Right: 0.332+/-0.460  $\chi^2/\text{NDF}$ : 1.6/1

In: 0.408+/-0.463  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.332+/-0.460  $\chi^2/\text{NDF}$ : 1.6/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 359.878 $\pm$ 0.328  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 953.895 $\pm$ 2.528  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

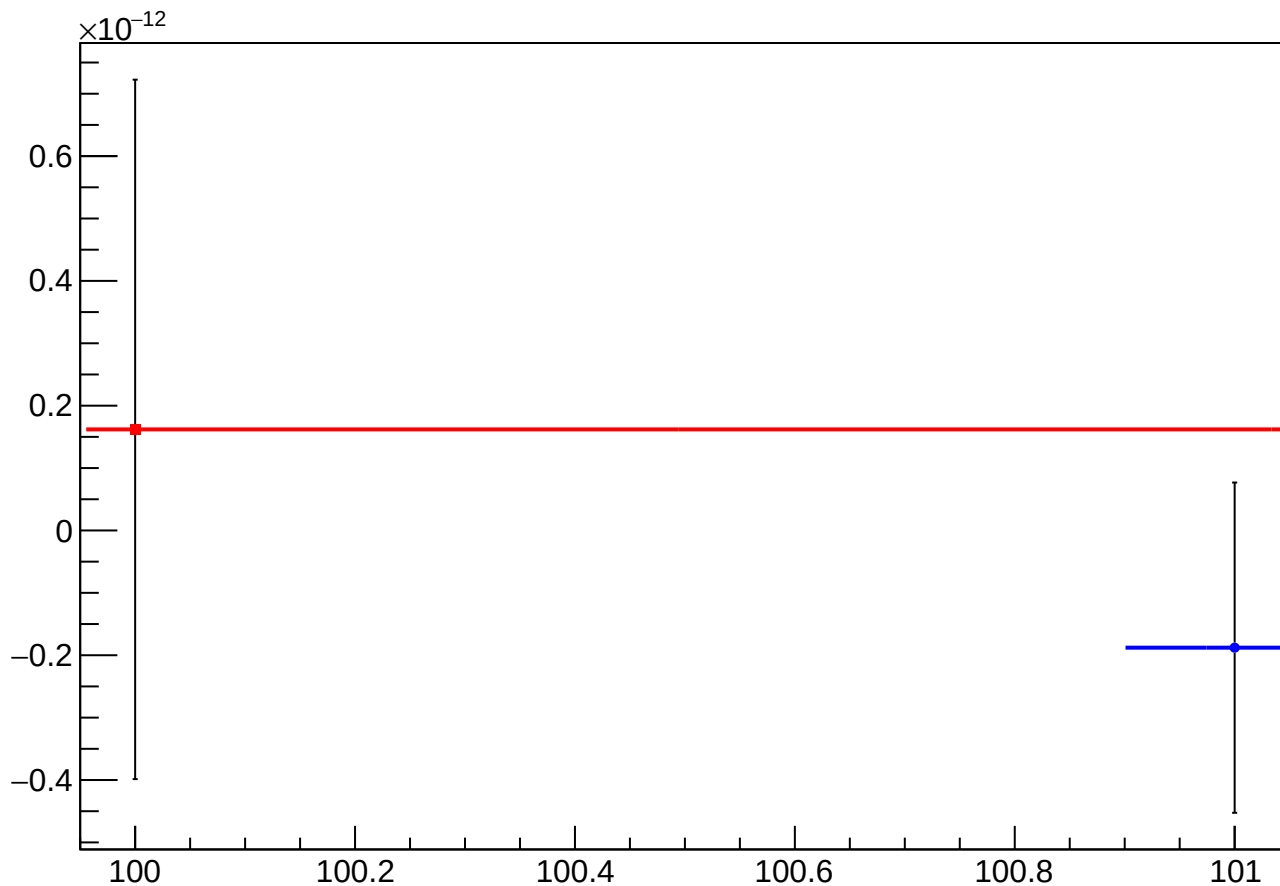
Right: 369.695 $\pm$ 0.325  $\chi^2$ /NDF: 54297.8/1

In: 359.878 $\pm$ 0.328  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 369.695 $\pm$ 0.325  $\chi^2$ /NDF: 54297.8/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

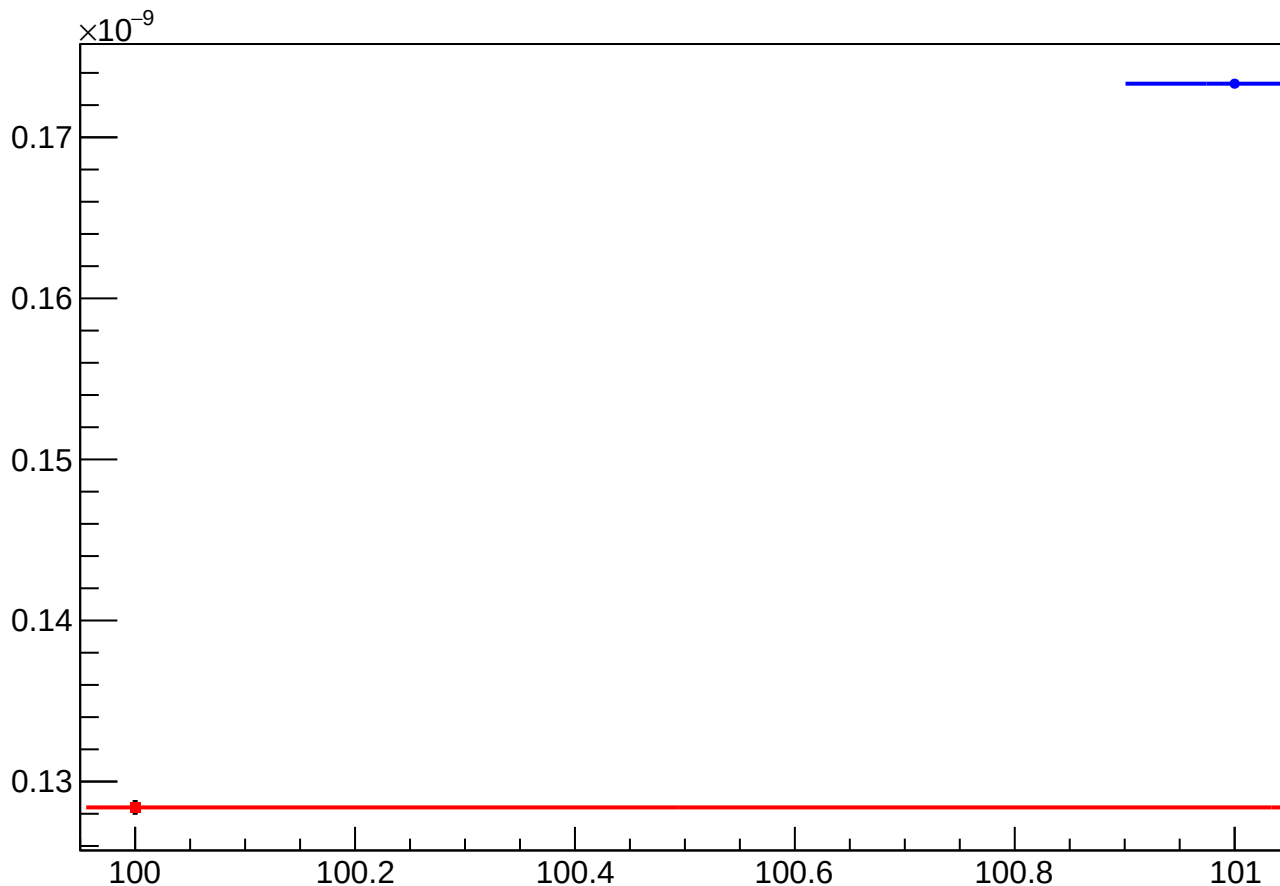
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_avg\_at2lr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

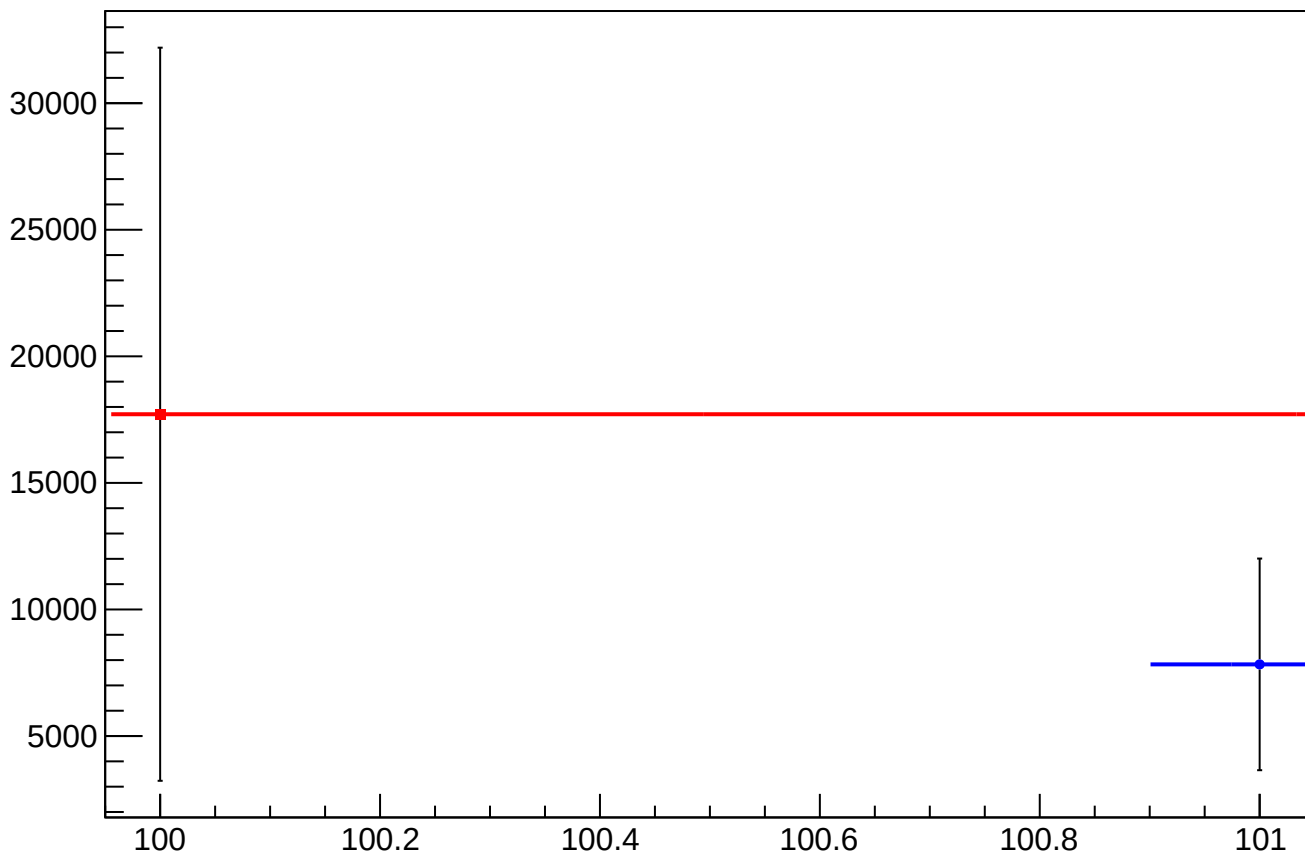
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10509.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 10509.6/1

reg\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 7830.909+/-4180.266  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 17712.520+/-14480.488  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

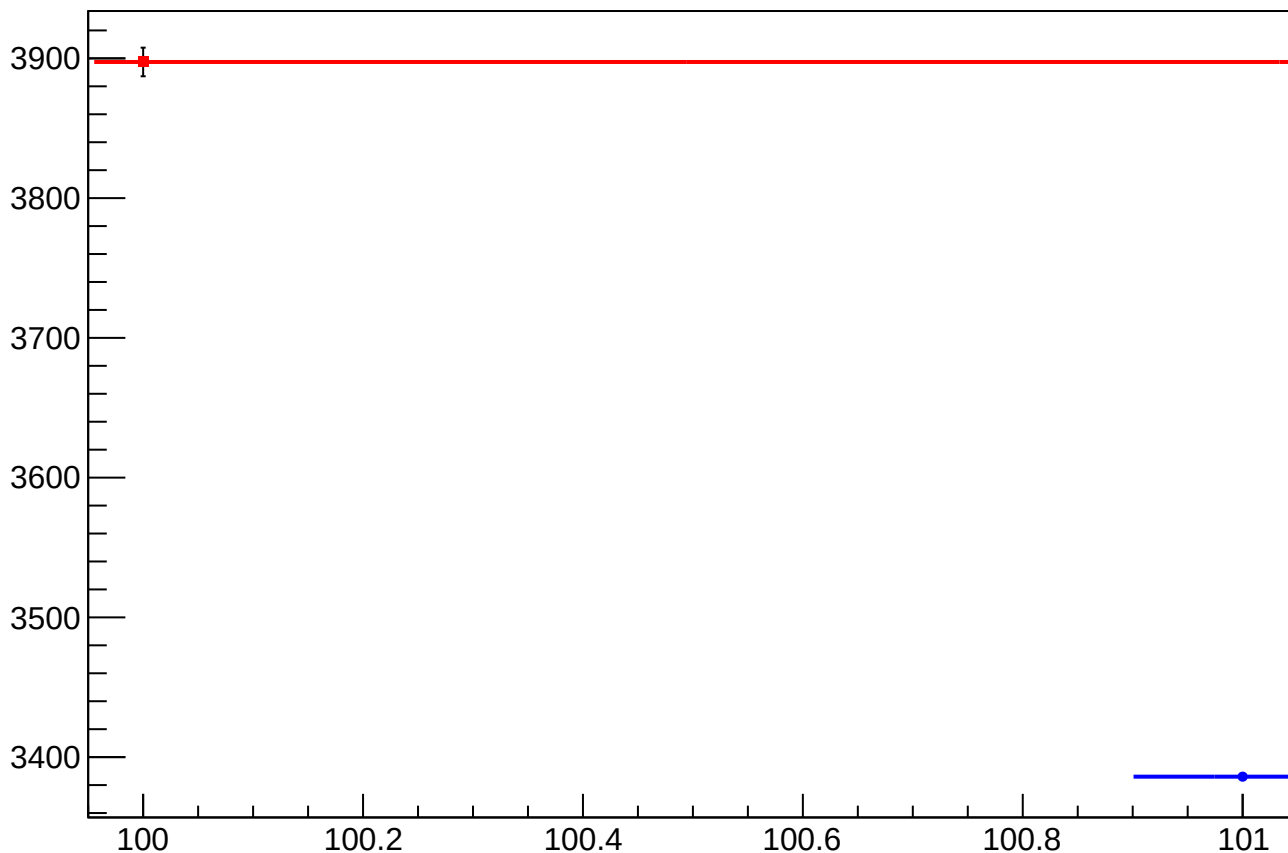
Right: 8591.070+/-4016.262  $\chi^2/\text{NDF}$ : 0.4/1

In: 7830.909+/-4180.266  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 8591.070+/-4016.262  $\chi^2/\text{NDF}$ : 0.4/1

reg\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3386.021+/-2.956  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3897.420+/-10.239  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

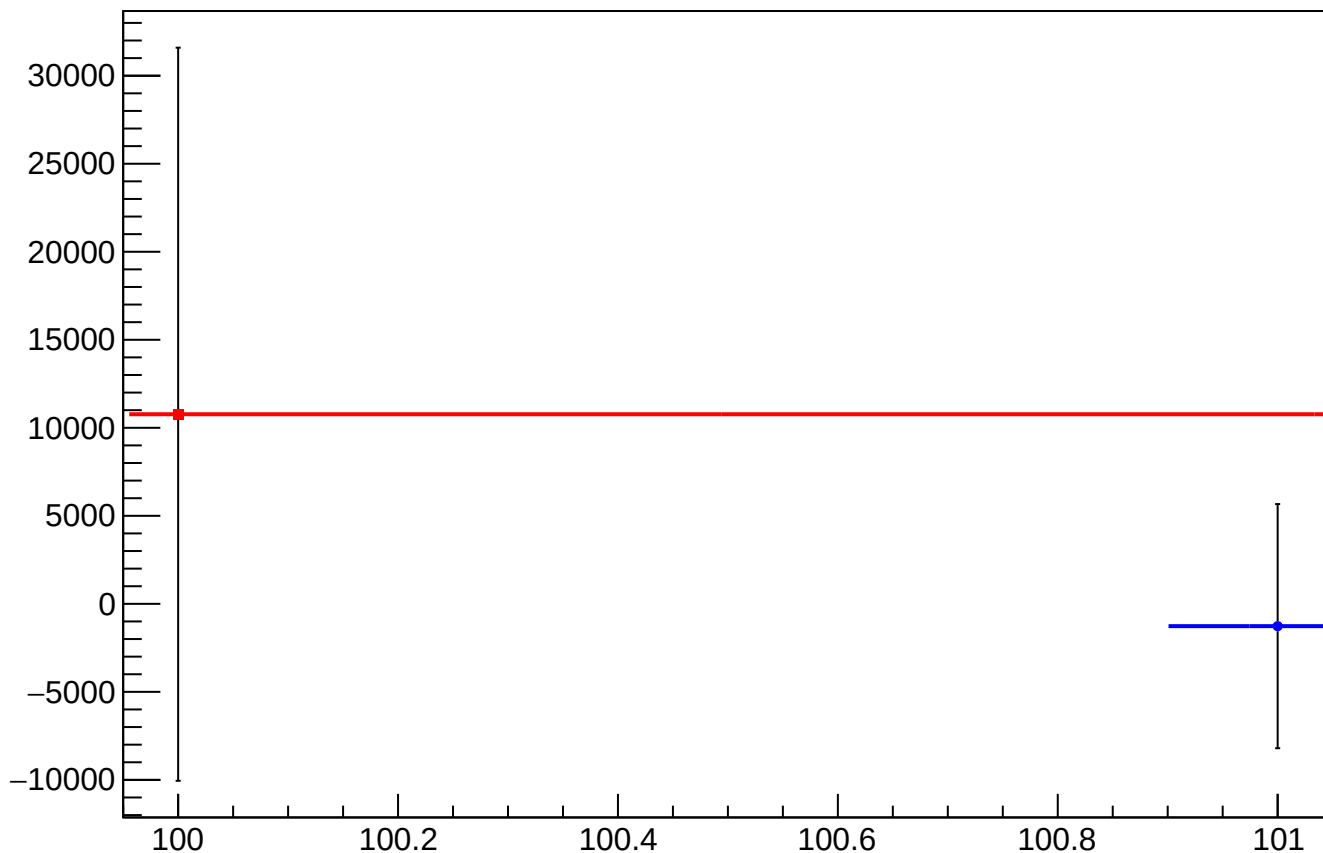
Right: 3425.361+/-2.840  $\chi^2/\text{NDF}$ : 2302.6/1

In: 3386.021+/-2.956  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3425.361+/-2.840  $\chi^2/\text{NDF}$ : 2302.6/1

asym\_us\_avg\_atlr\_avg\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1267.319+/-6934.464  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10770.519+/-20822.864  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

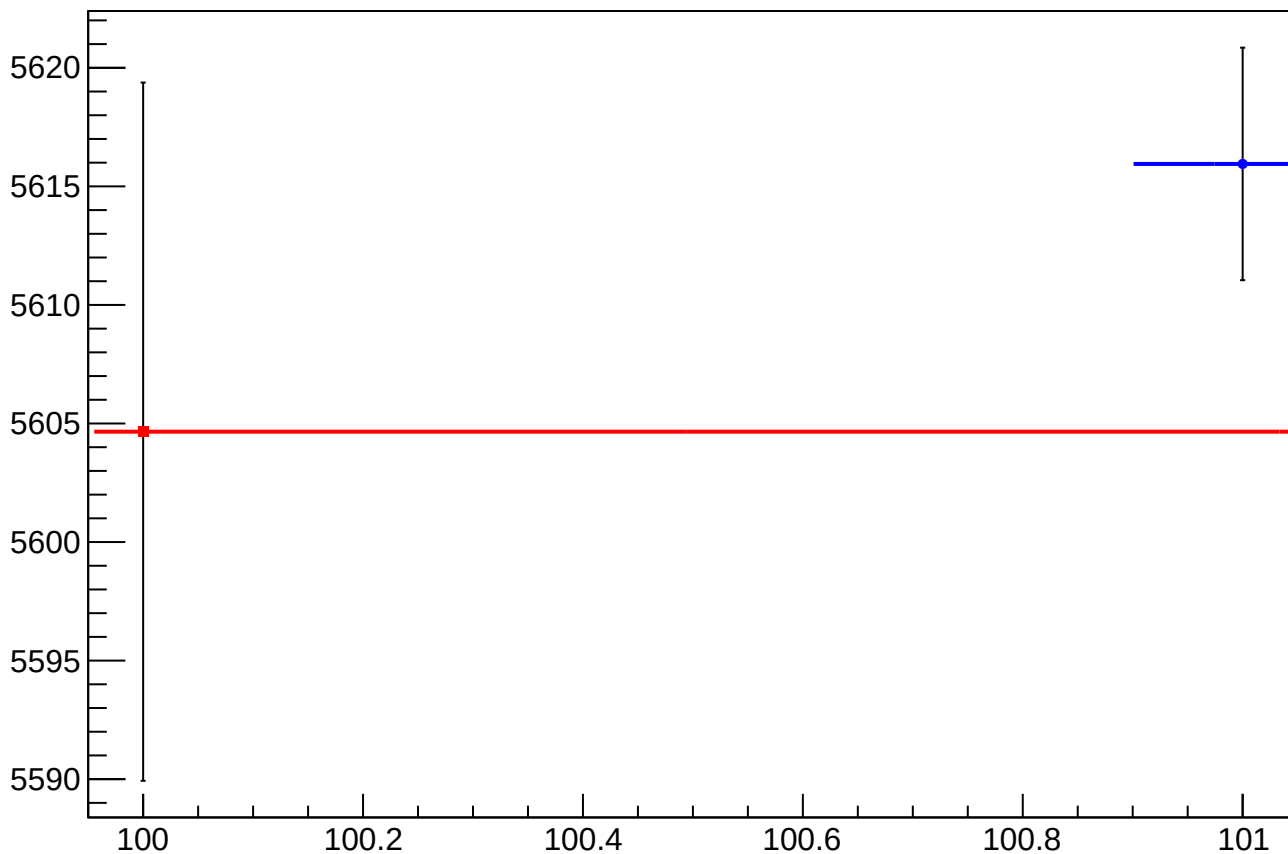
Right: -65.561+/-6579.225  $\chi^2/\text{NDF}$ : 0.3/1

In: -1267.319+/-6934.464  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -65.561+/-6579.225  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_avg\_atlr\_avg\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 5615.946 $\pm$ 4.903  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5604.655 $\pm$ 14.724  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 5614.819 $\pm$ 4.652  $\chi^2$ /NDF: 0.5/1

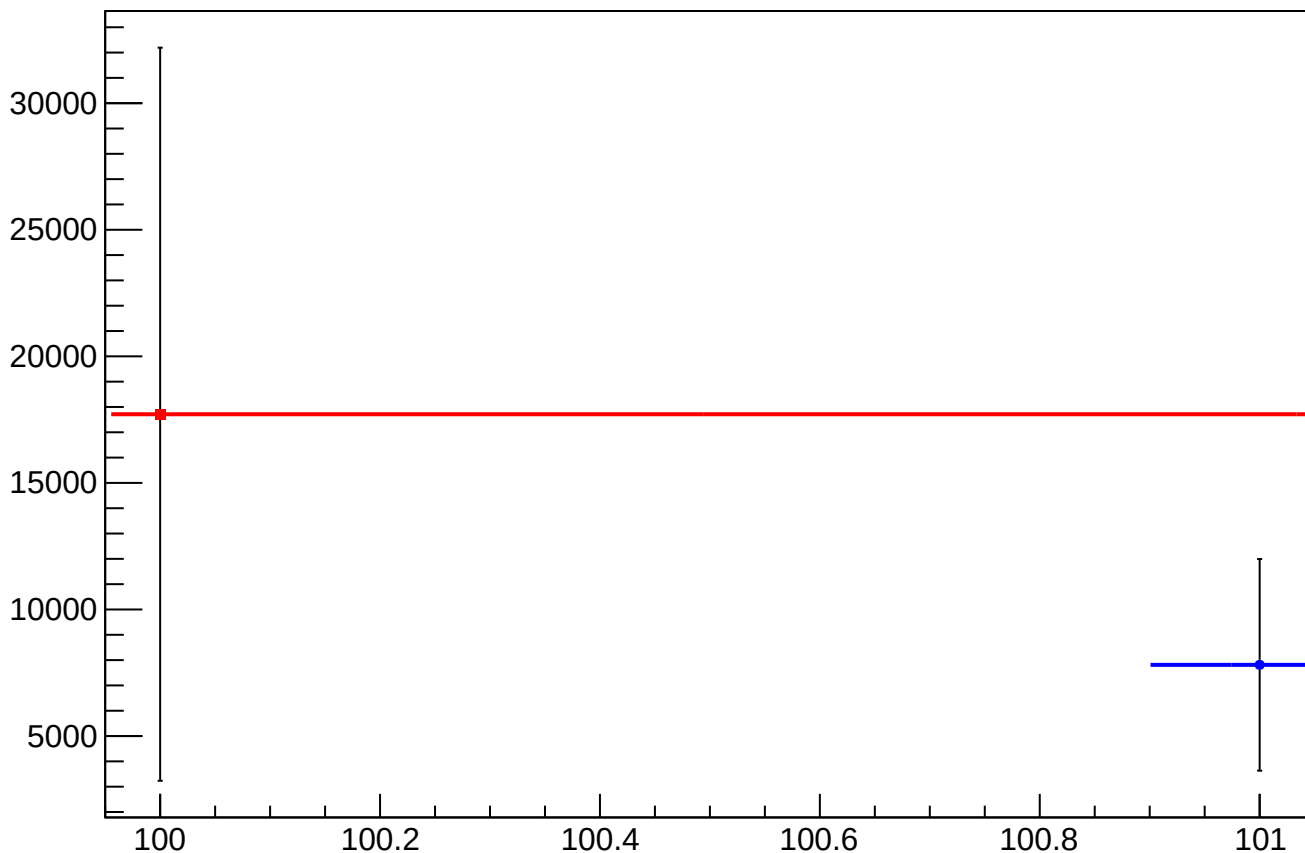
In: 5615.946 $\pm$ 4.903  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5614.819 $\pm$ 4.652  $\chi^2$ /NDF: 0.5/1



cor\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 7812.652+/-4180.286  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 17712.907+/-14480.488  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

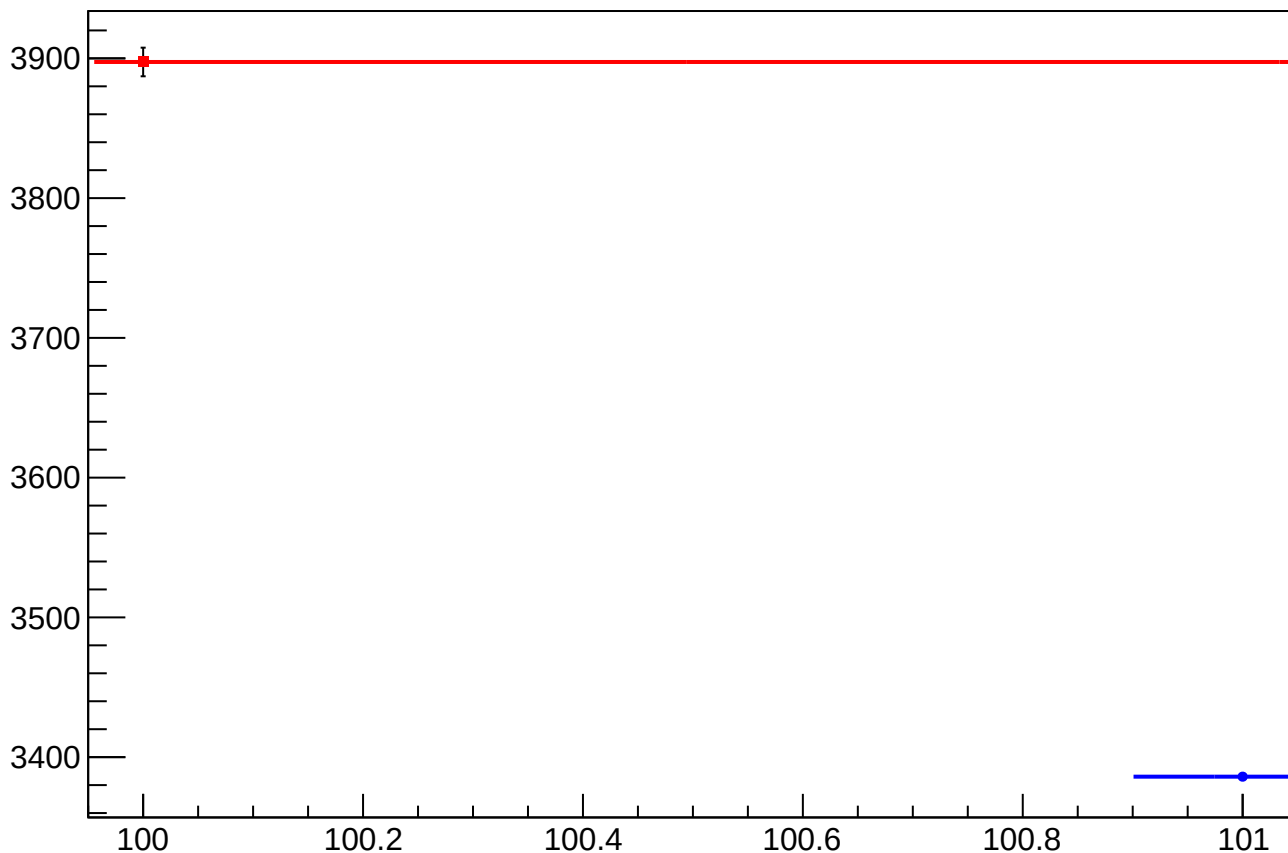
Right: 8574.253+/-4016.279  $\chi^2/\text{NDF}$ : 0.4/1

In: 7812.652+/-4180.286  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 8574.253+/-4016.279  $\chi^2/\text{NDF}$ : 0.4/1

cor\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3386.033+/-2.956  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3897.420+/-10.239  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

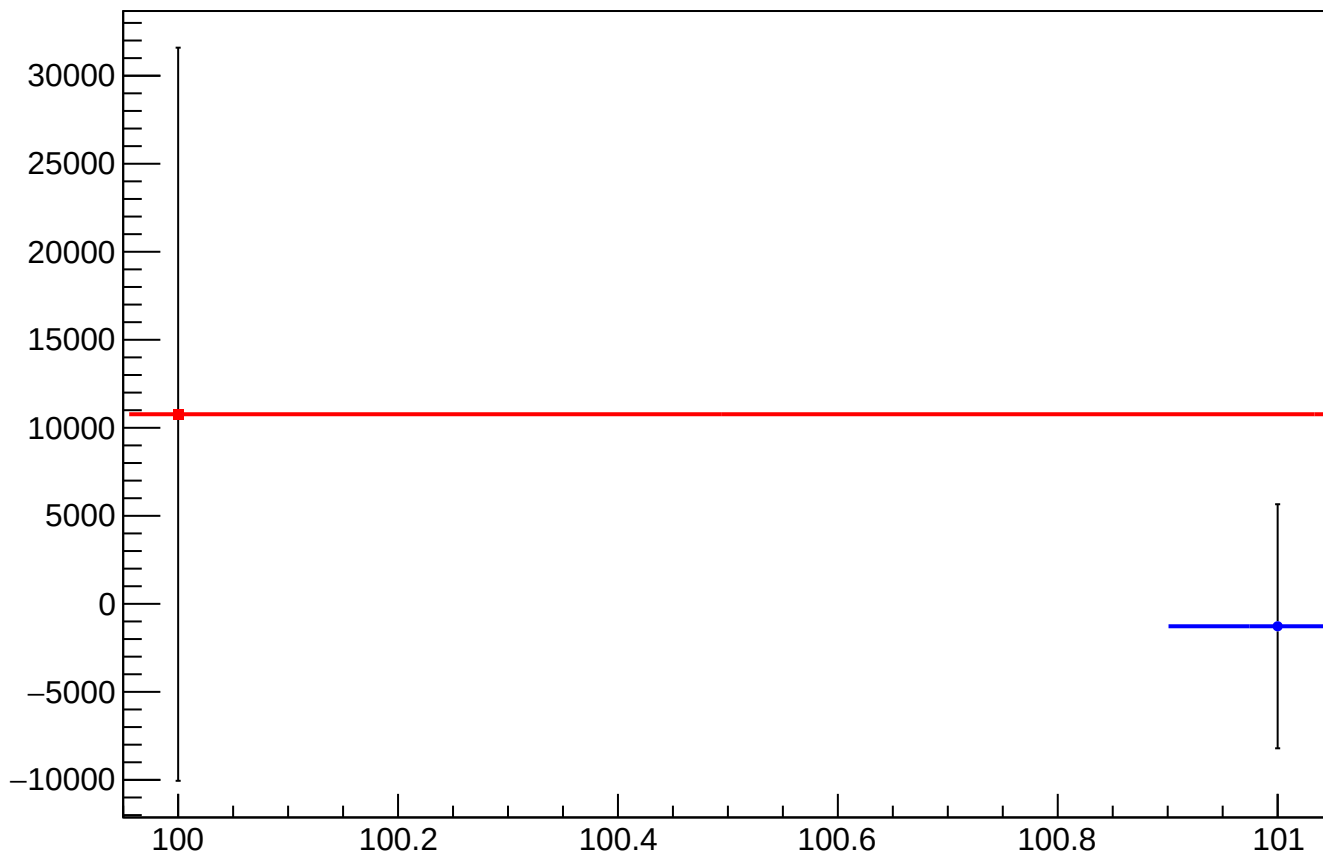
Right: 3425.373+/-2.840  $\chi^2/\text{NDF}$ : 2302.5/1

In: 3386.033+/-2.956  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3425.373+/-2.840  $\chi^2/\text{NDF}$ : 2302.5/1

asym\_us\_avg\_atlr\_avg\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1273.708+/-6932.289  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10770.947+/-20822.843  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

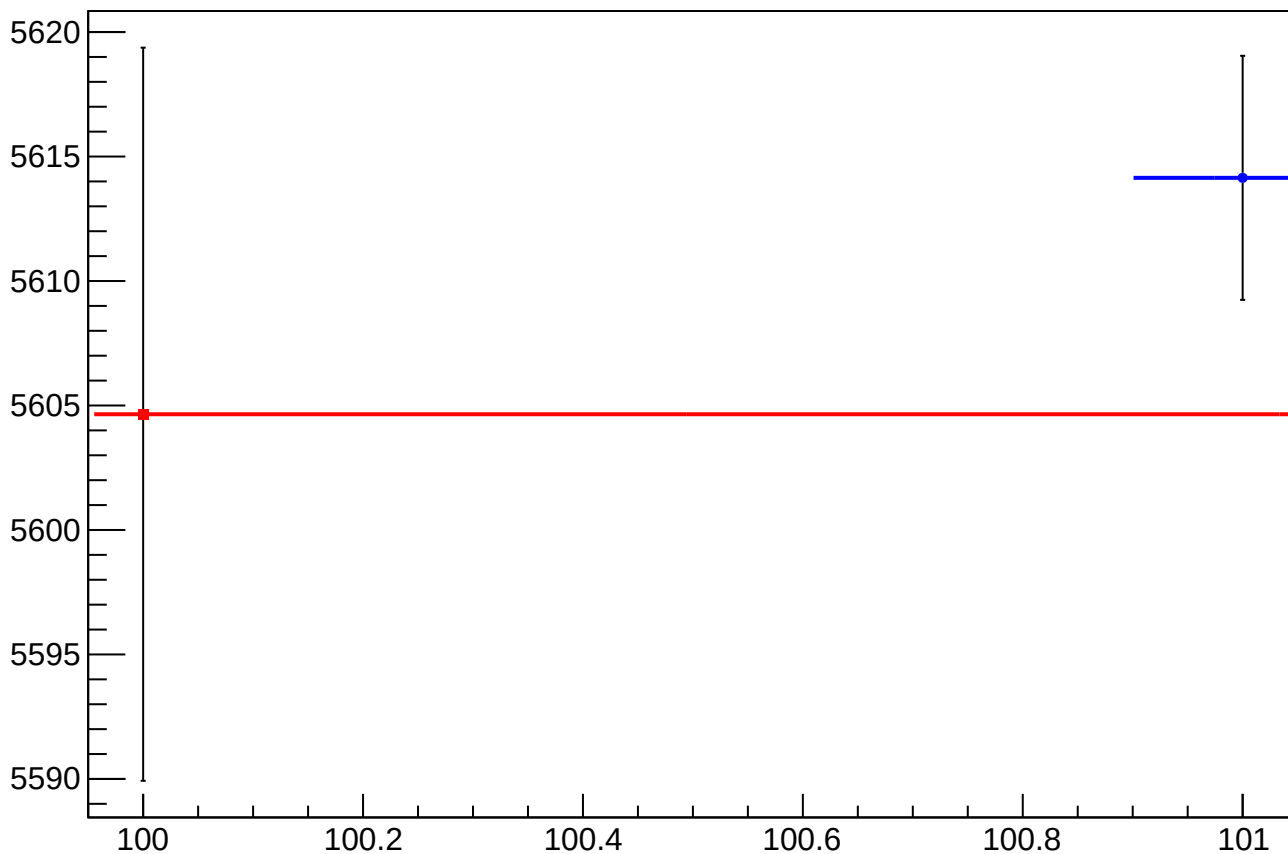
Right: -71.946+/-6577.367  $\chi^2/\text{NDF}$ : 0.3/1

In: -1273.708+/-6932.289  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -71.946+/-6577.367  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_avg\_atlr\_avg\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5614.145 $\pm$ 4.902  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5604.649 $\pm$ 14.724  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

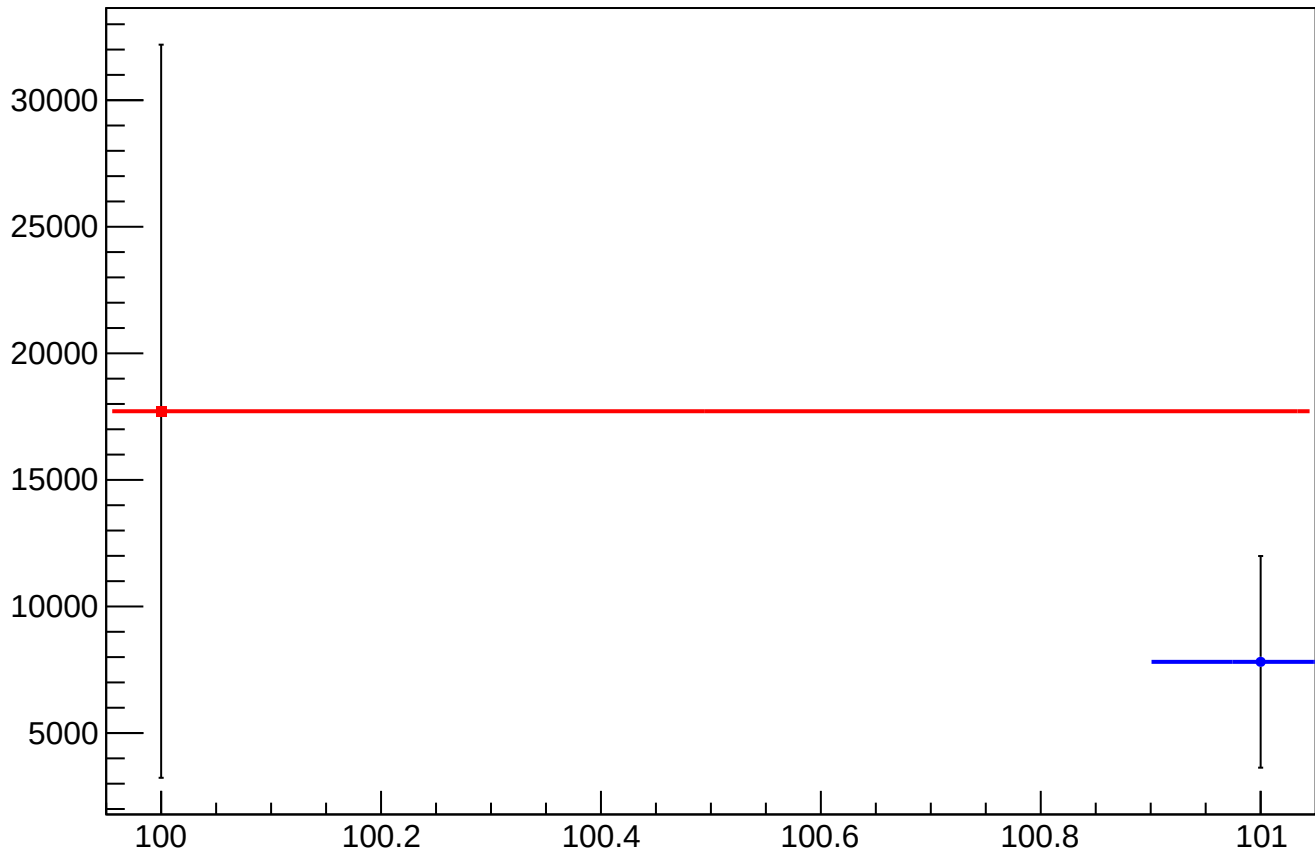
Right: 5613.197 $\pm$ 4.651  $\chi^2$ /NDF: 0.4/1

In: 5614.145 $\pm$ 4.902  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5613.197 $\pm$ 4.651  $\chi^2$ /NDF: 0.4/1

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 7812.652+/-4180.286  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 17712.907+/-14480.488  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

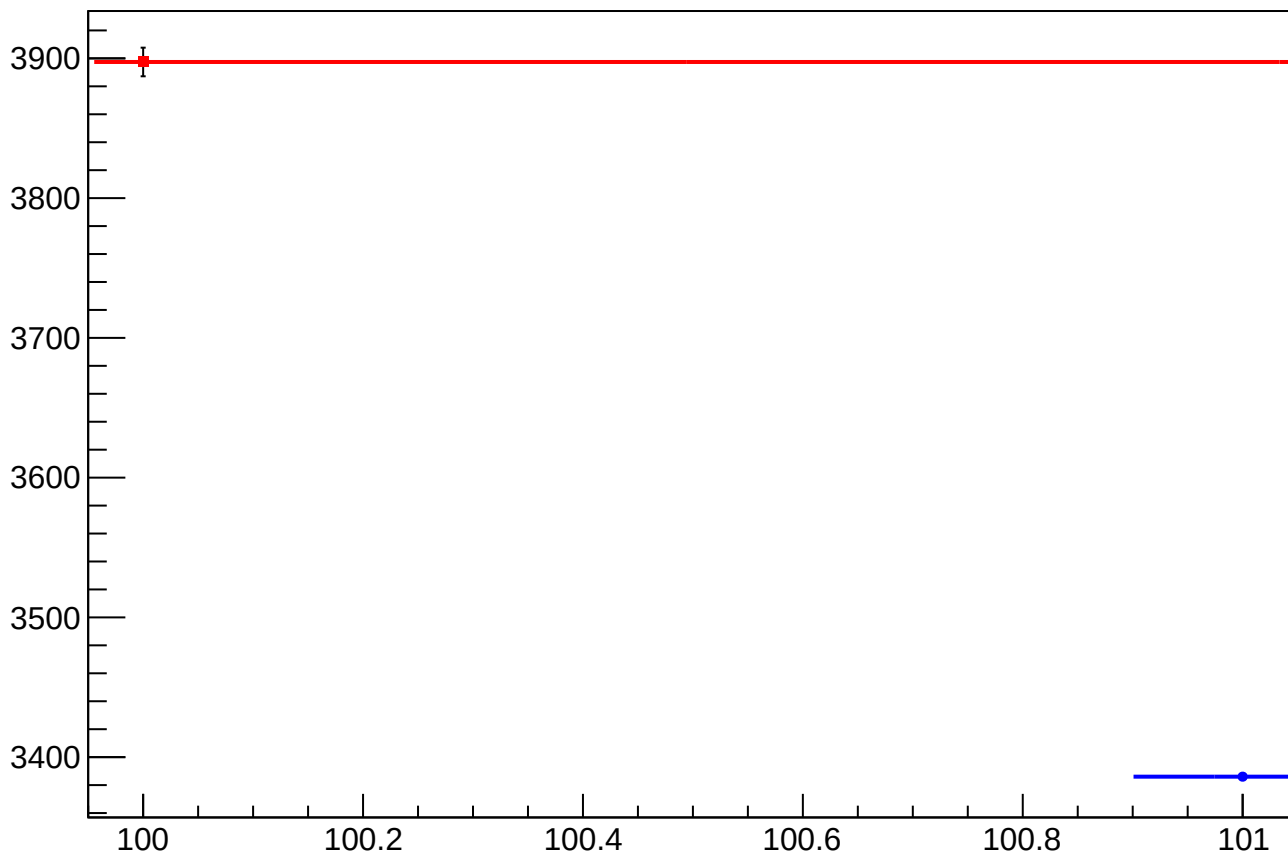
Right: 8574.253+/-4016.279  $\chi^2/\text{NDF}$ : 0.4/1

In: 7812.652+/-4180.286  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 8574.253+/-4016.279  $\chi^2/\text{NDF}$ : 0.4/1

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3386.033+/-2.956  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3897.420+/-10.239  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

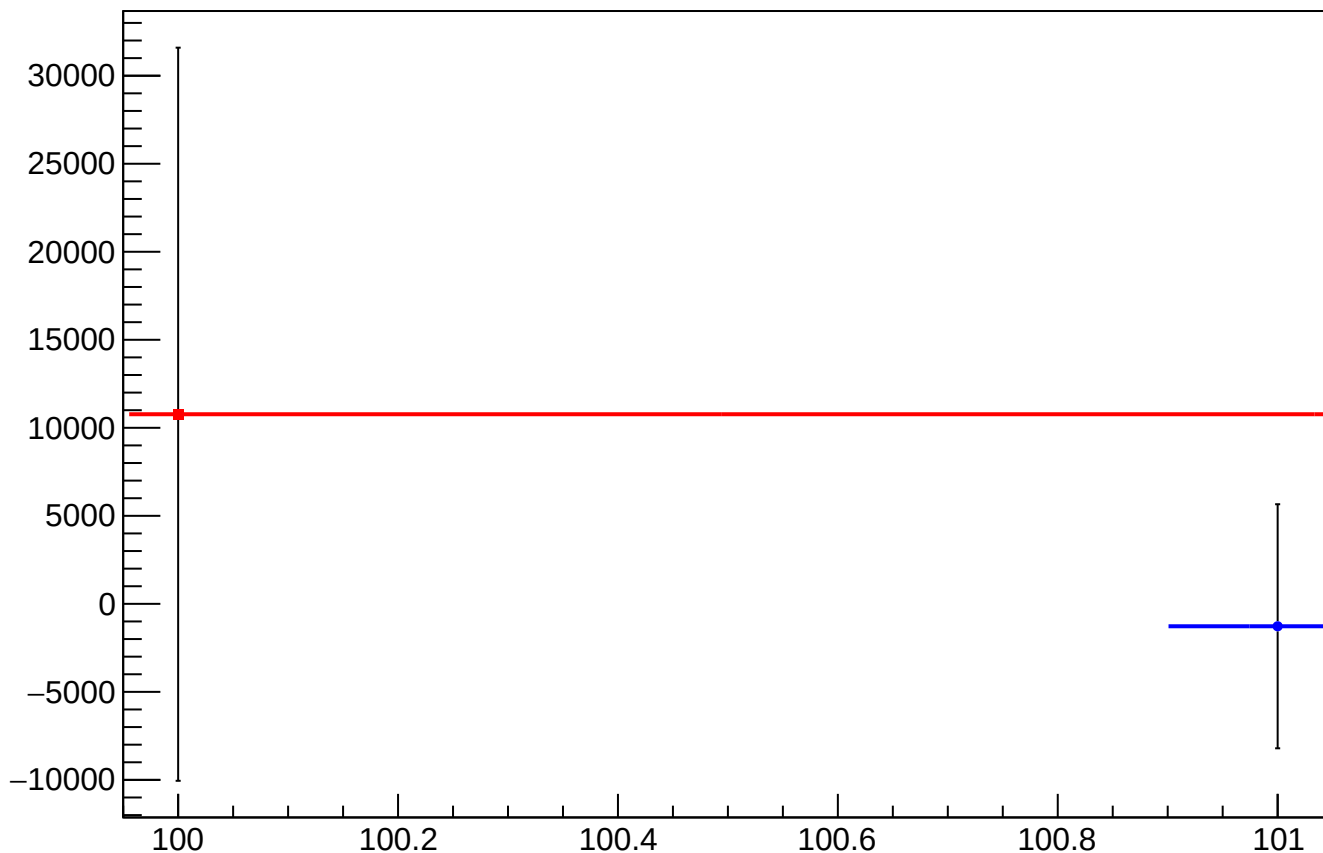
Right: 3425.373+/-2.840  $\chi^2/\text{NDF}$ : 2302.5/1

In: 3386.033+/-2.956  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3425.373+/-2.840  $\chi^2/\text{NDF}$ : 2302.5/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1273.708+/-6932.289  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10770.947+/-20822.843  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

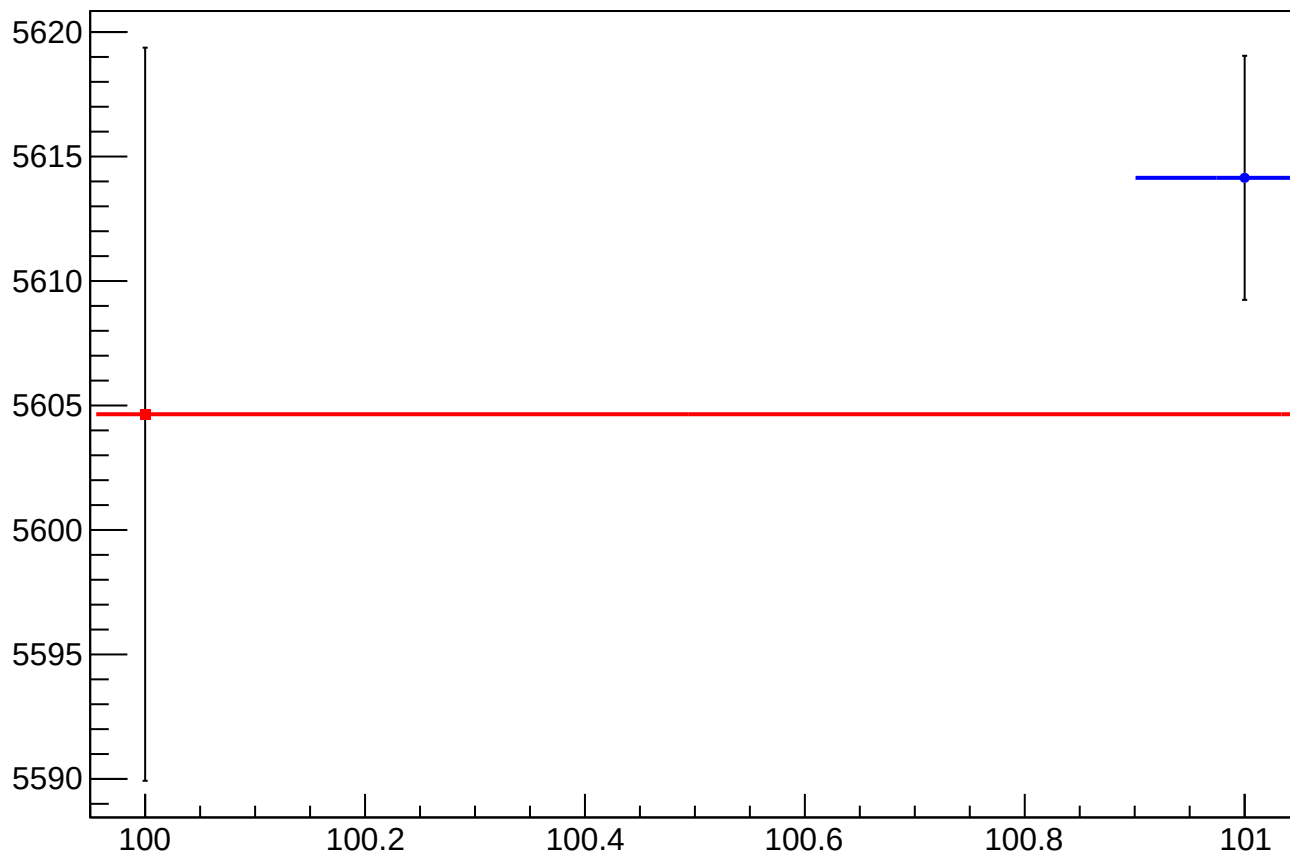
Right: -71.946+/-6577.367  $\chi^2/\text{NDF}$ : 0.3/1

In: -1273.708+/-6932.289  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -71.946+/-6577.367  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 5614.145+/-4.902  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5604.649+/-14.724  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 5613.197+/-4.651  $\chi^2/\text{NDF}$ : 0.4/1

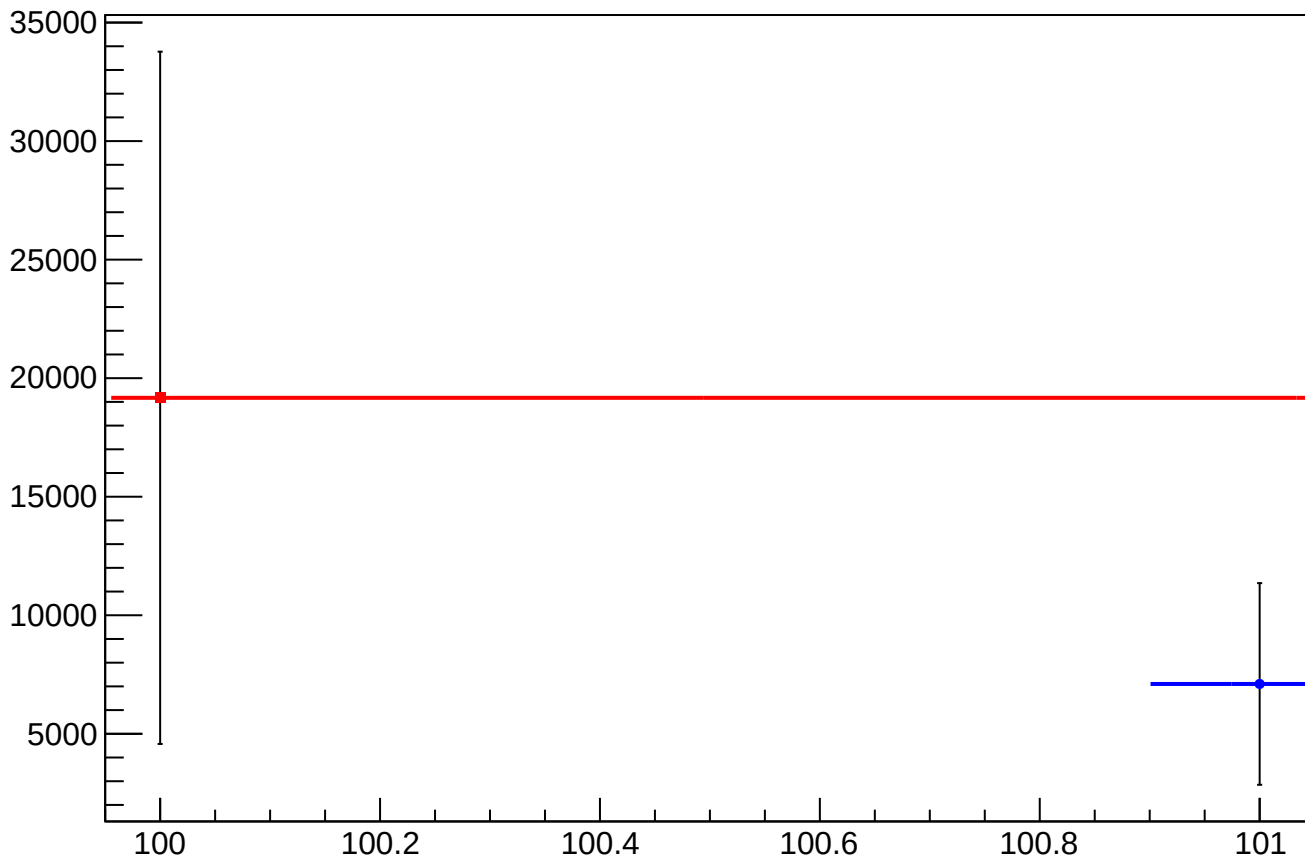
In: 5614.145+/-4.902  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5613.197+/-4.651  $\chi^2/\text{NDF}$ : 0.4/1



dit\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 7102.378+/-4253.291  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19171.611+/-14600.402  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

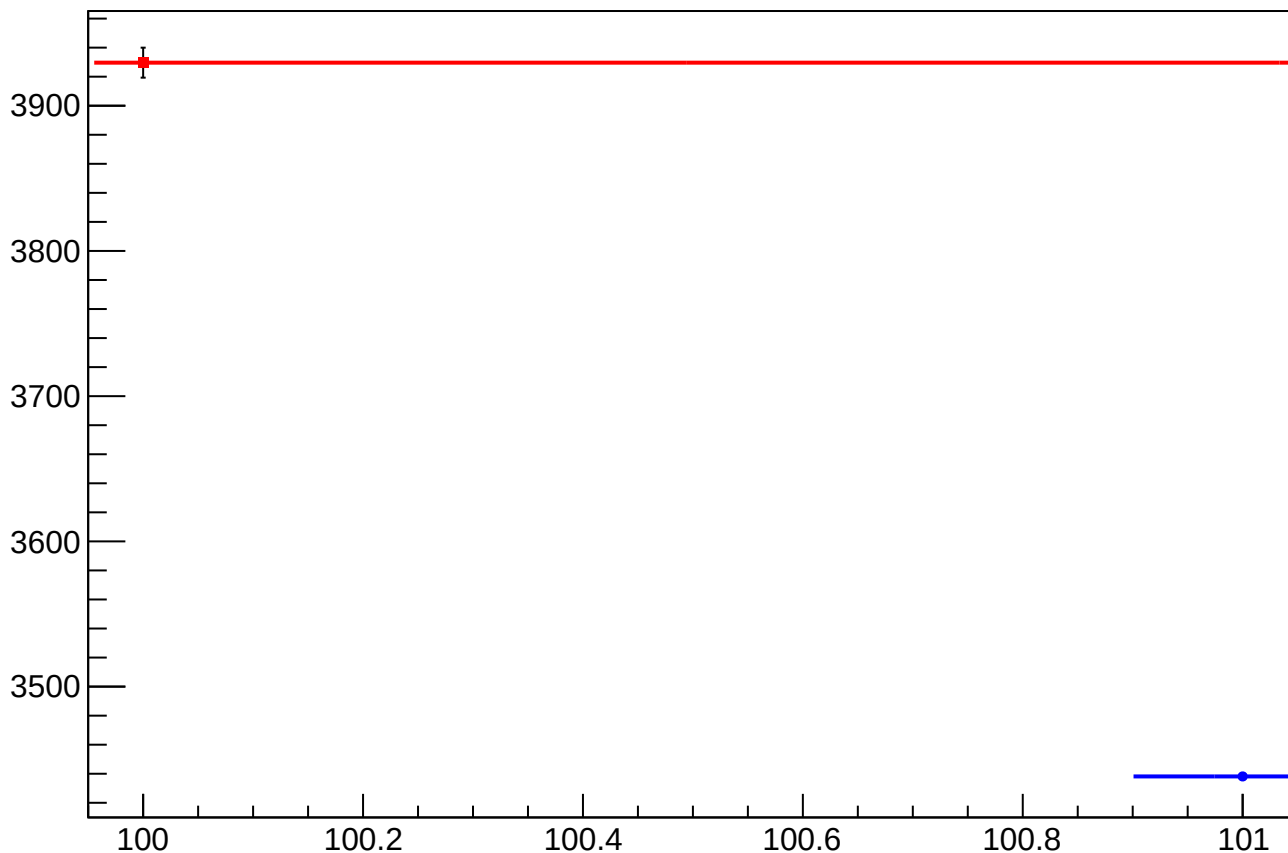
Right: 8046.493+/-4083.547  $\chi^2/\text{NDF}$ : 0.6/1

In: 7102.378+/-4253.291  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8046.493+/-4083.547  $\chi^2/\text{NDF}$ : 0.6/1

dit\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3438.148+/-3.008  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3929.649+/-10.324  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

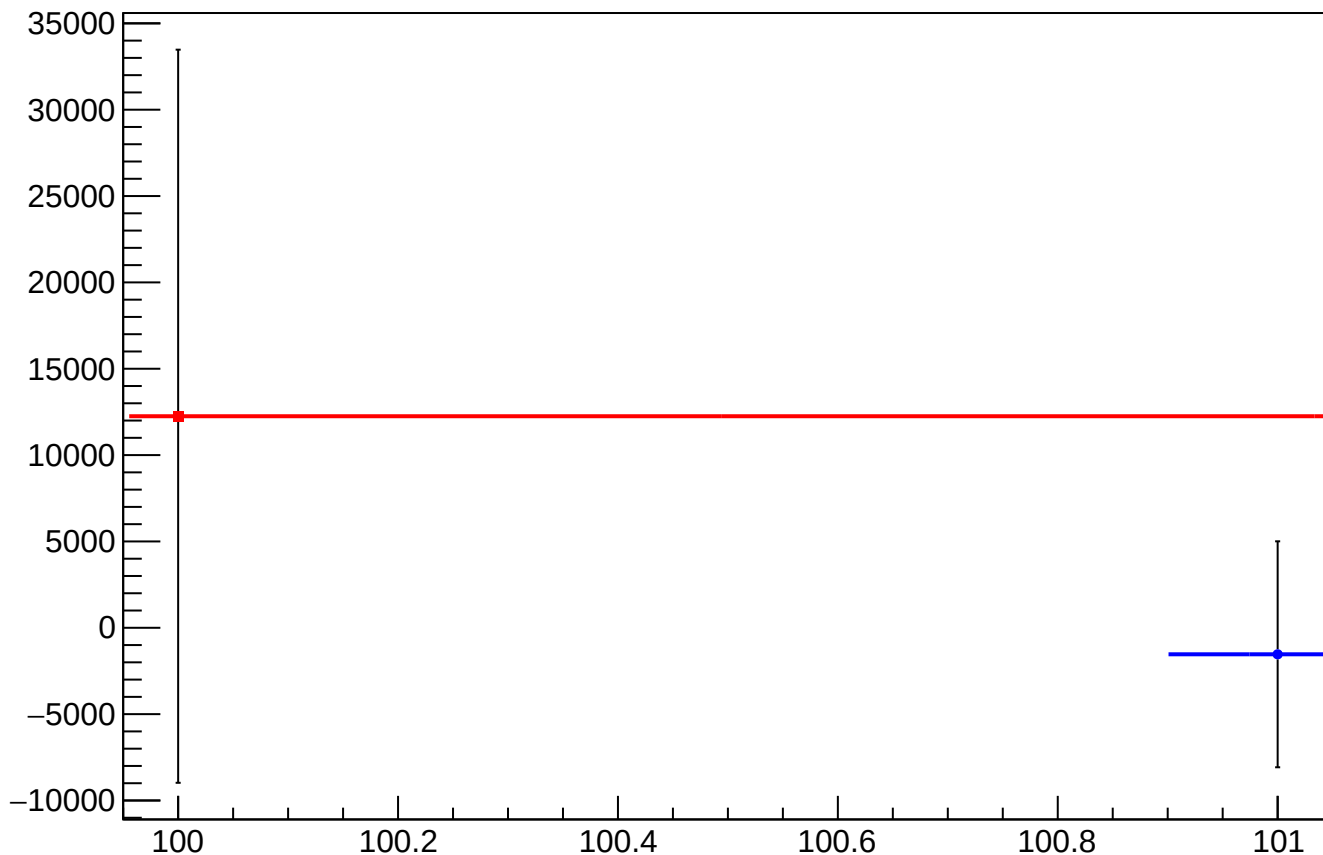
Right: 3476.596+/-2.888  $\chi^2/\text{NDF}$ : 2089.2/1

In: 3438.148+/-3.008  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3476.596+/-2.888  $\chi^2/\text{NDF}$ : 2089.2/1

asym\_us\_avg\_atlr\_avg\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1534.804+/-6542.391  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12250.047+/-21225.734  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

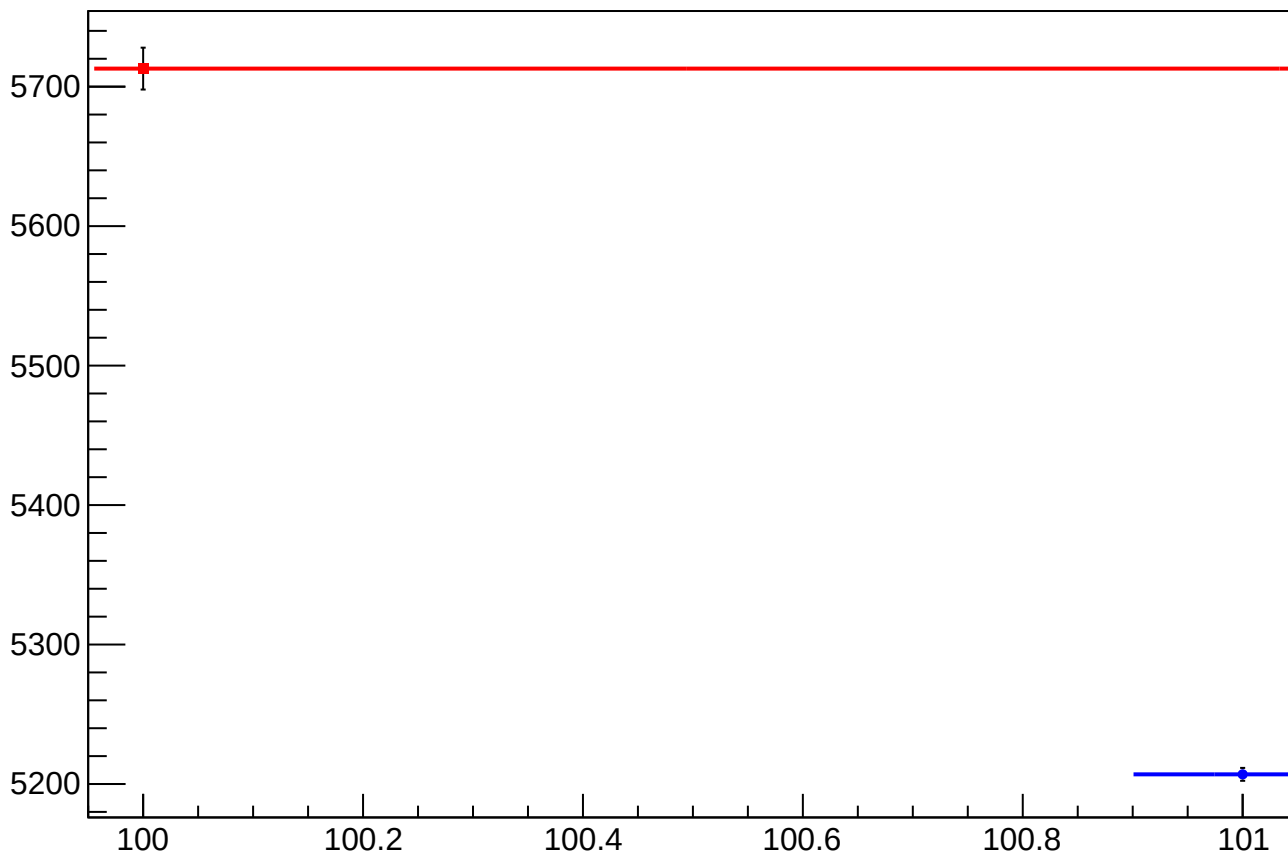
Right: -338.798+/-6252.136  $\chi^2/\text{NDF}$ : 0.4/1

In: -1534.804+/-6542.391  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -338.798+/-6252.136  $\chi^2/\text{NDF}$ : 0.4/1

asym\_us\_avg\_atlr\_avg\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5206.927 $\pm$ 4.626  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5712.948 $\pm$ 15.009  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

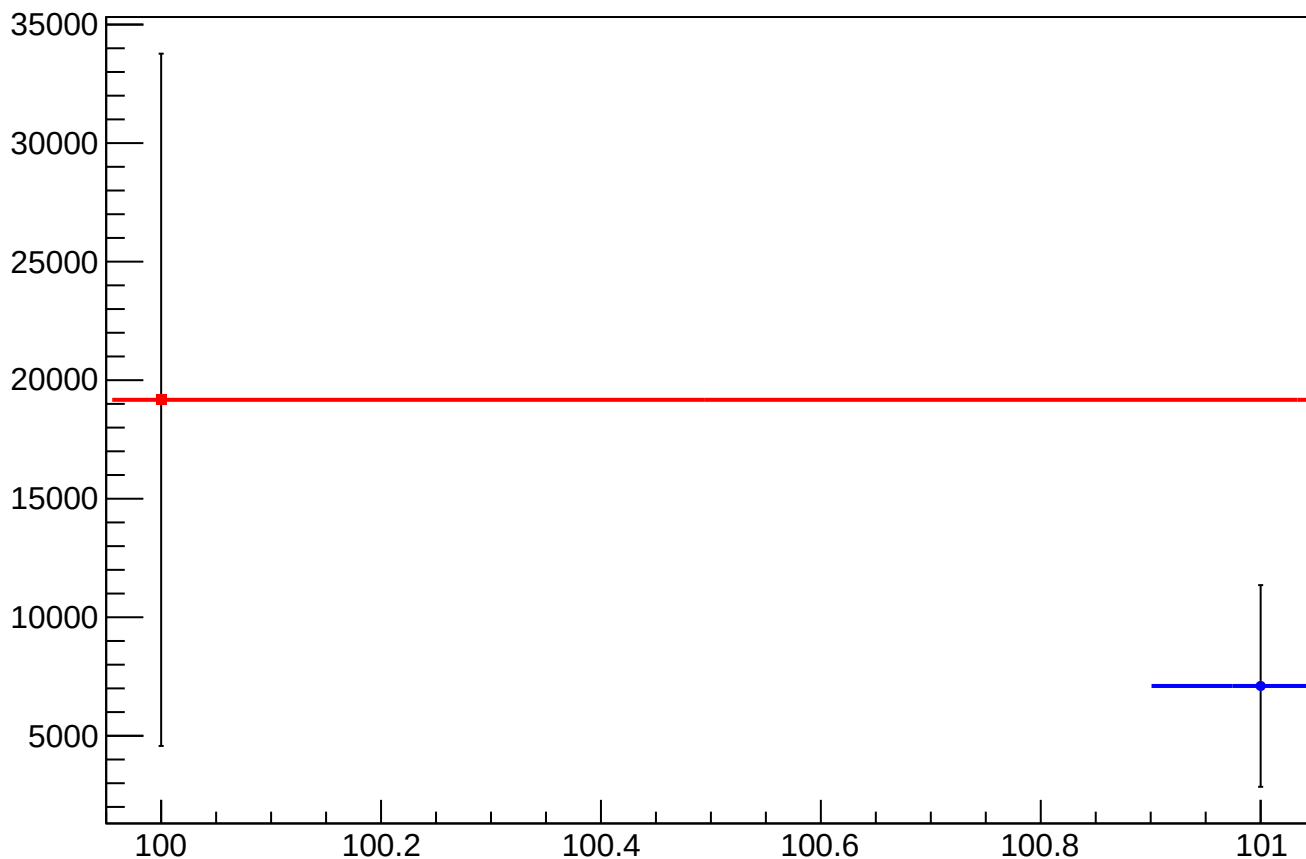
Right: 5250.831 $\pm$ 4.421  $\chi^2$ /NDF: 1038.1/1

In: 5206.927 $\pm$ 4.626  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5250.831 $\pm$ 4.421  $\chi^2$ /NDF: 1038.1/1

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 7102.355+/-4253.291  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19171.690+/-14600.404  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

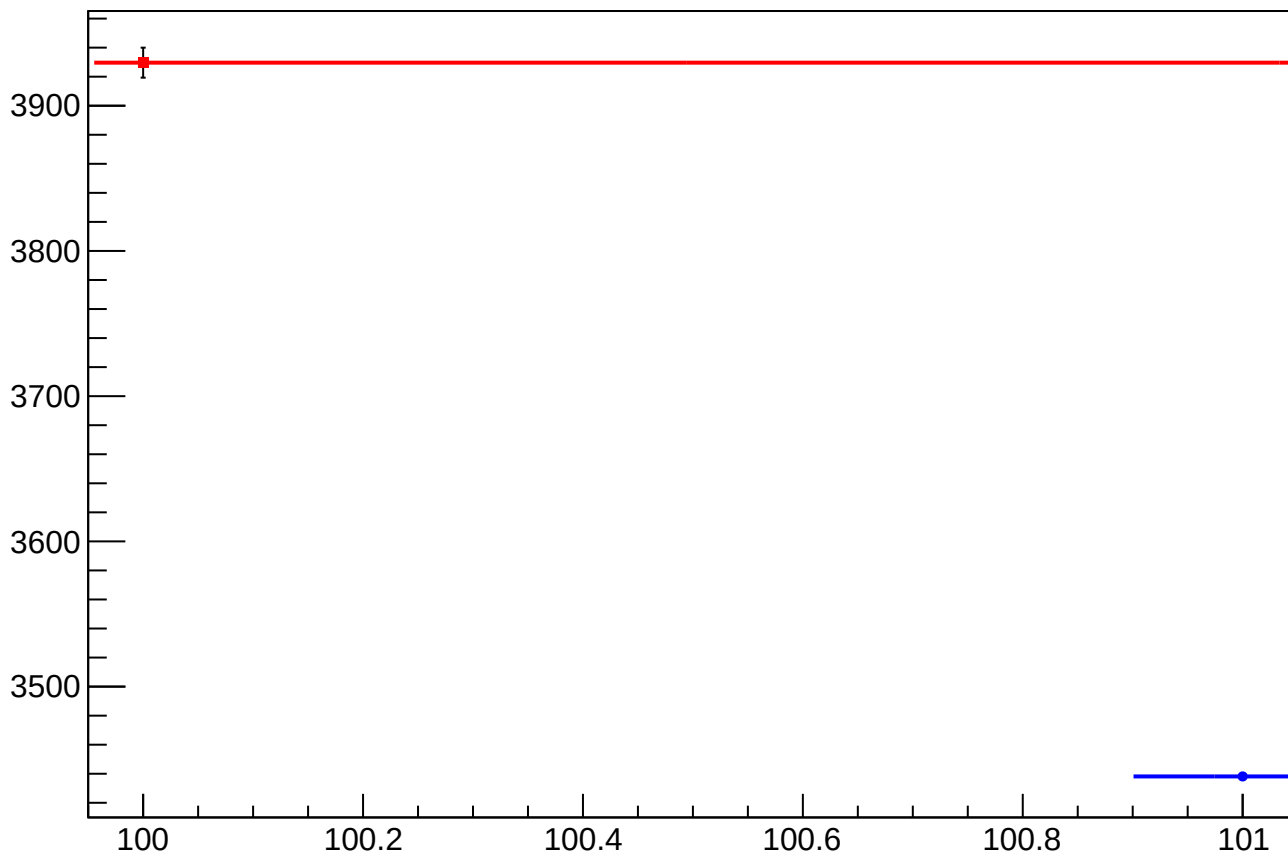
Right: 8046.479+/-4083.547  $\chi^2/\text{NDF}$ : 0.6/1

In: 7102.355+/-4253.291  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8046.479+/-4083.547  $\chi^2/\text{NDF}$ : 0.6/1

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3438.148+/-3.008  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3929.650+/-10.324  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

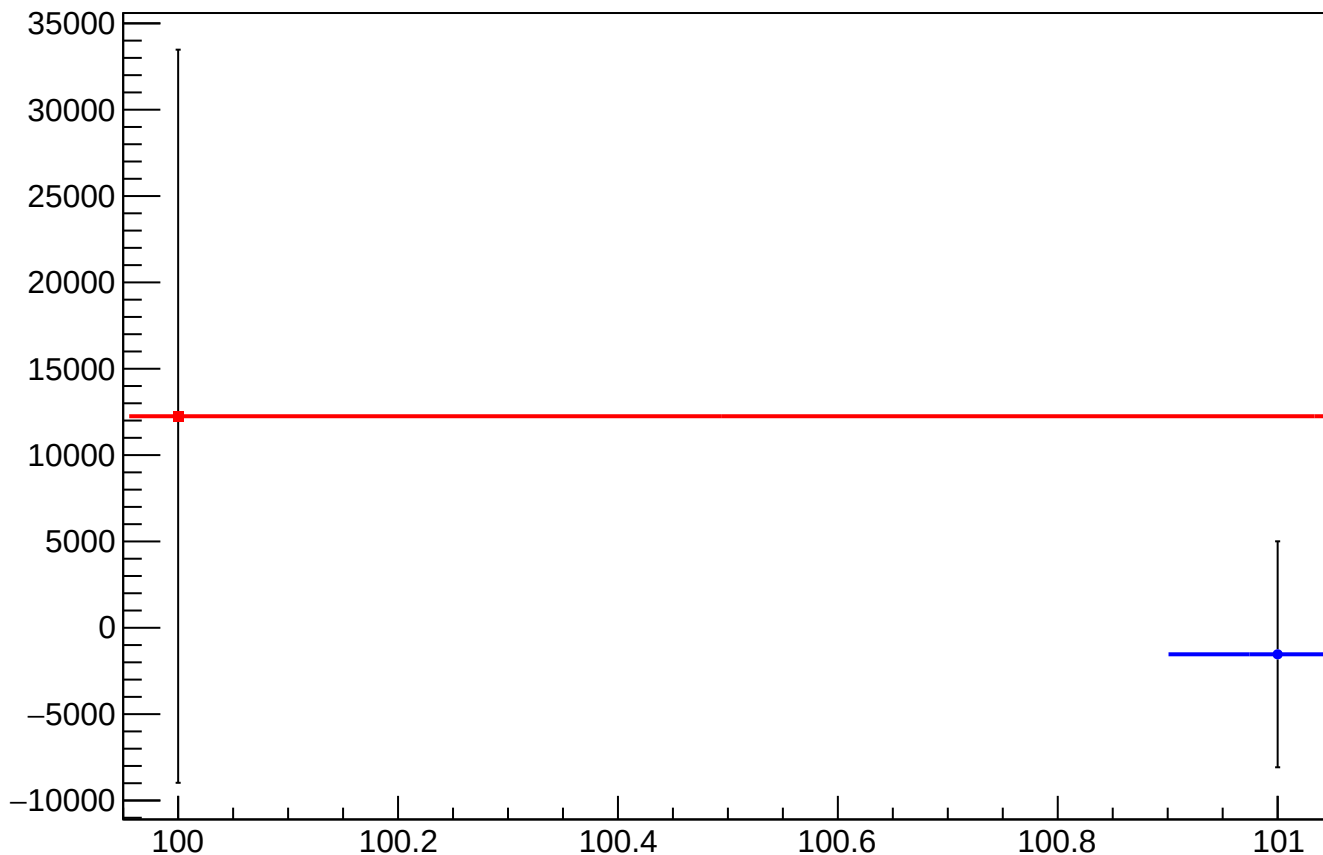
Right: 3476.596+/-2.888  $\chi^2/\text{NDF}$ : 2089.2/1

In: 3438.148+/-3.008  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3476.596+/-2.888  $\chi^2/\text{NDF}$ : 2089.2/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1534.822+/-6542.381  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 12250.125+/-21225.696  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

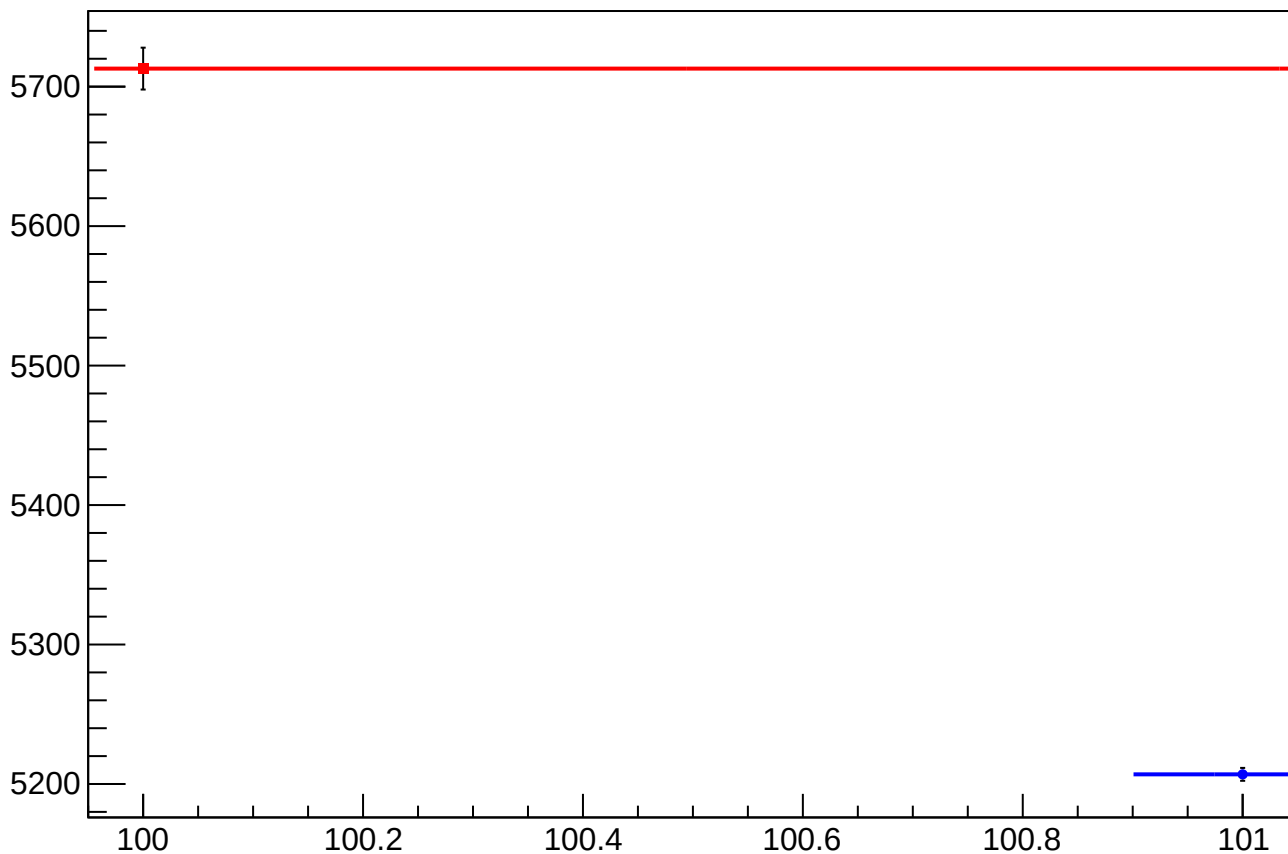
Right: -338.807+/-6252.126  $\chi^2/\text{NDF}$ : 0.4/1

In: -1534.822+/-6542.381  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -338.807+/-6252.126  $\chi^2/\text{NDF}$ : 0.4/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 5206.919 $\pm$ 4.626  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5712.938 $\pm$ 15.009  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 5250.823 $\pm$ 4.421  $\chi^2$ /NDF: 1038.1/1

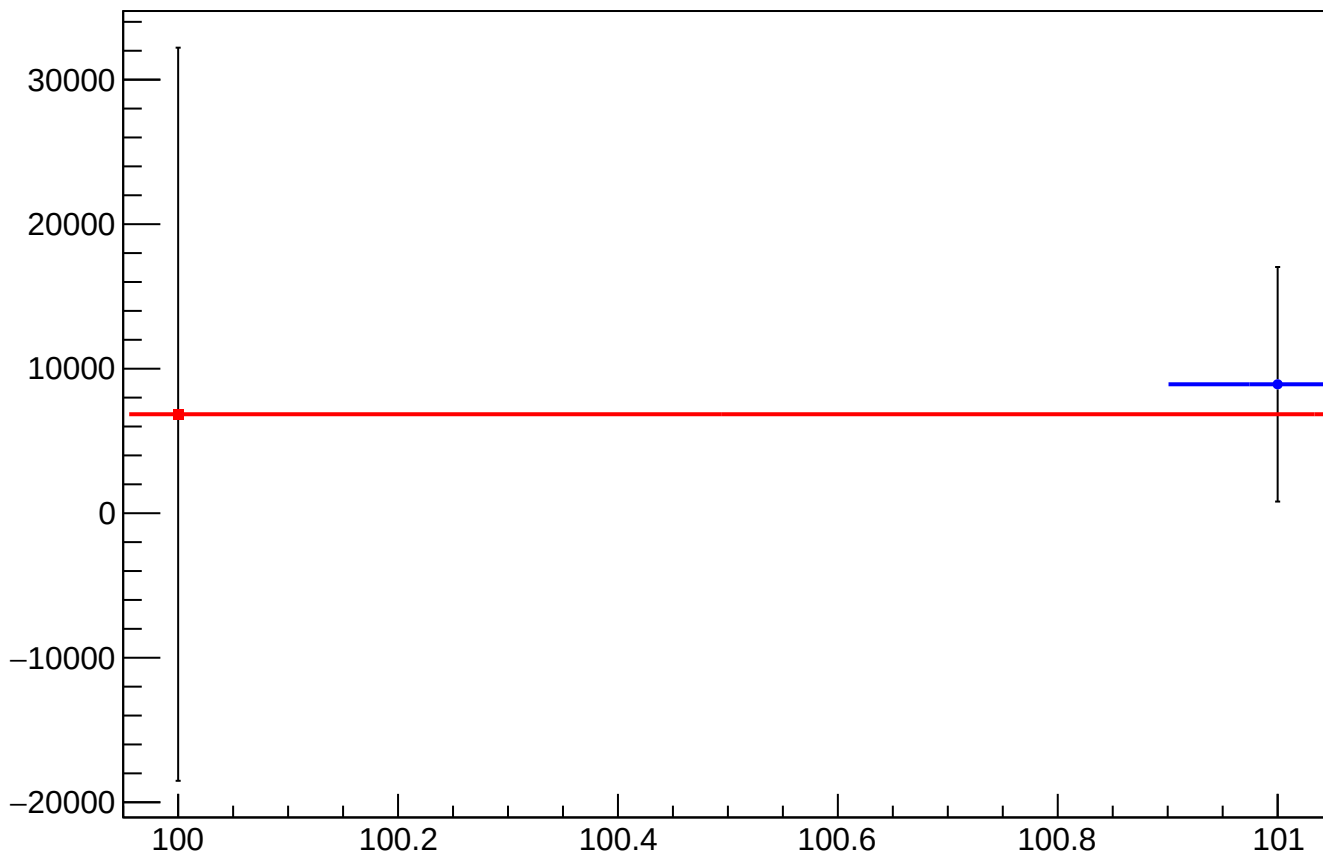
In: 5206.919 $\pm$ 4.626  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5250.823 $\pm$ 4.421  $\chi^2$ /NDF: 1038.1/1



asym\_us\_avg\_atlr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 8921.795+/-8115.047  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6849.285+/-25363.943  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

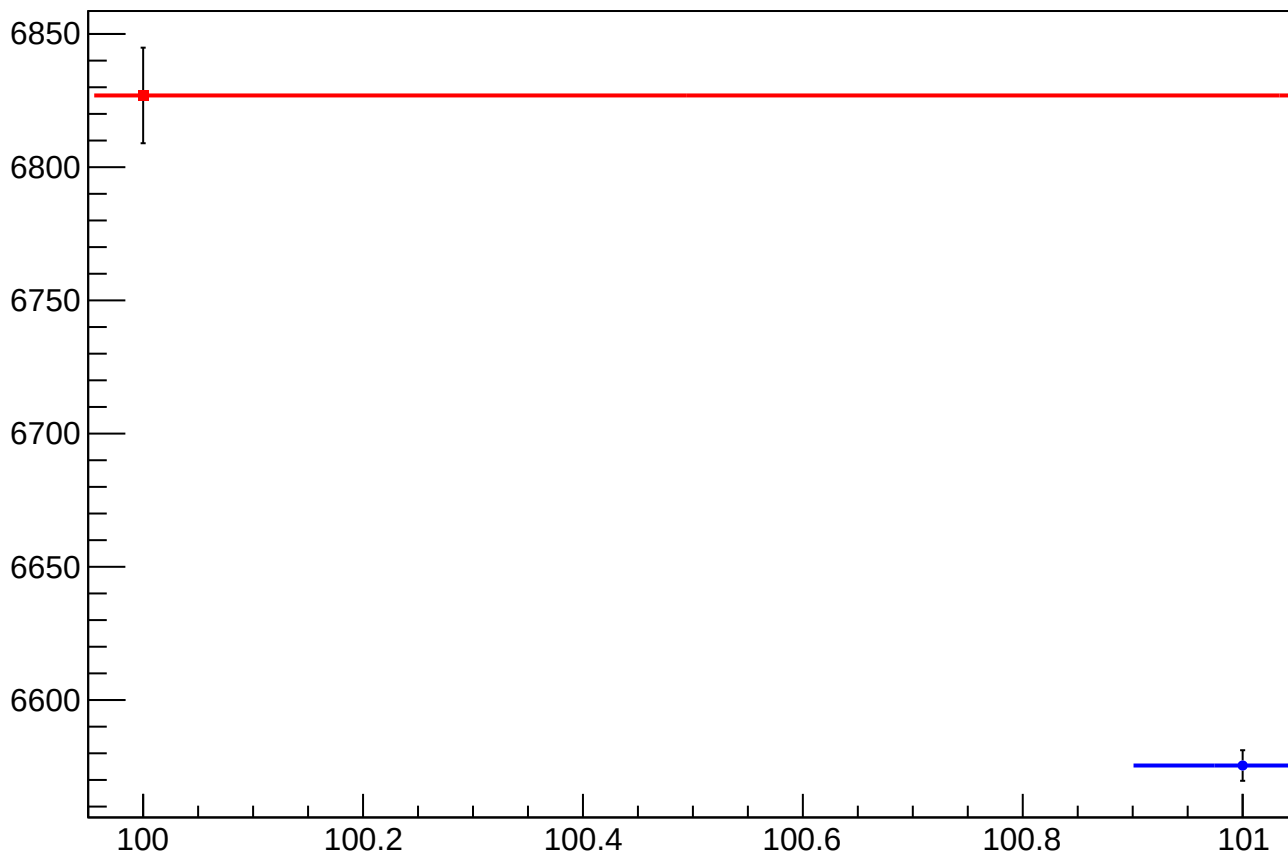
Right: 8729.344+/-7729.092  $\chi^2/\text{NDF}$ : 0.0/1

In: 8921.795+/-8115.047  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8729.344+/-7729.092  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_avg\_atlr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 6575.417+/-5.738  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6826.923+/-17.935  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

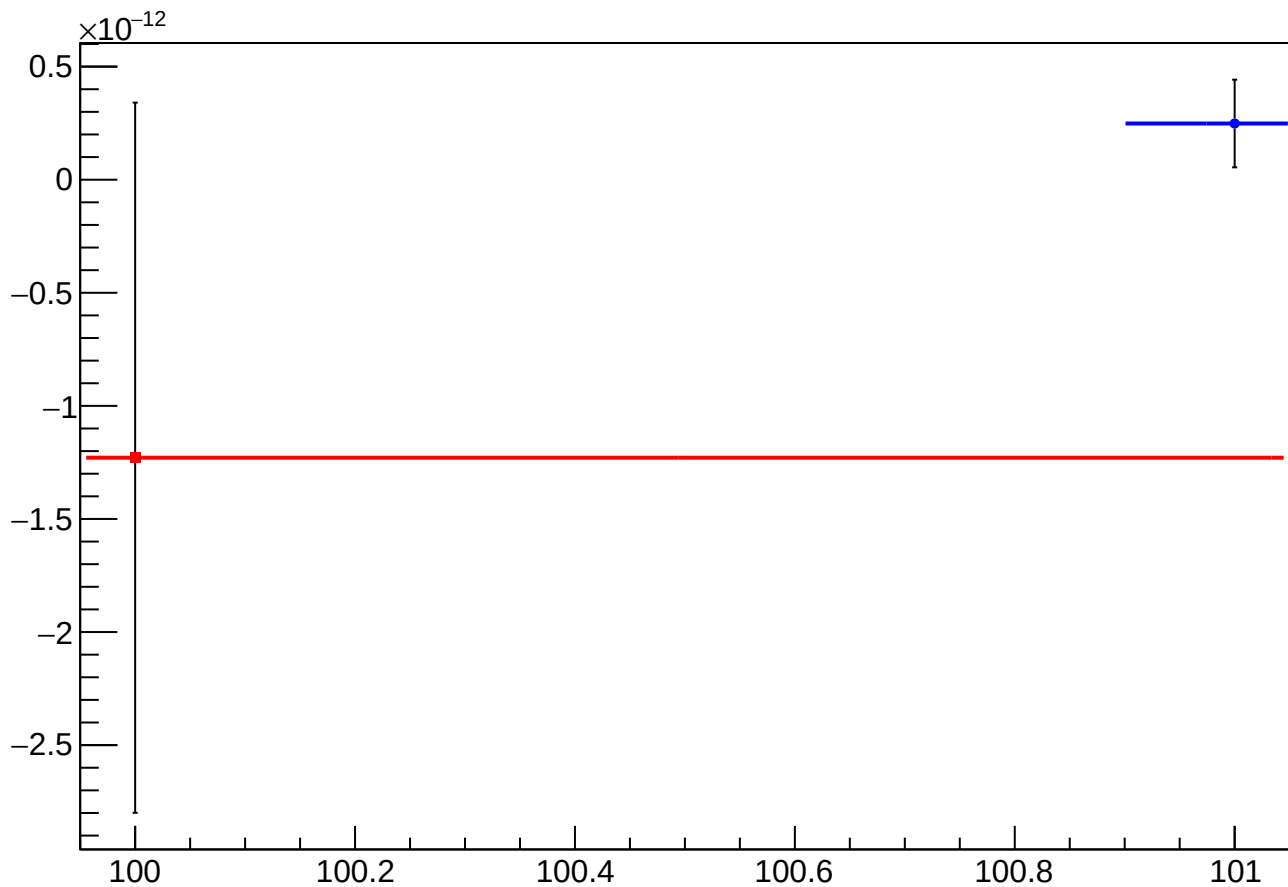
Right: 6598.771+/-5.465  $\chi^2$ /NDF: 178.4/1

In: 6575.417+/-5.738  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 6598.771+/-5.465  $\chi^2$ /NDF: 178.4/1

asym\_us\_avg\_atlr\_avg\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

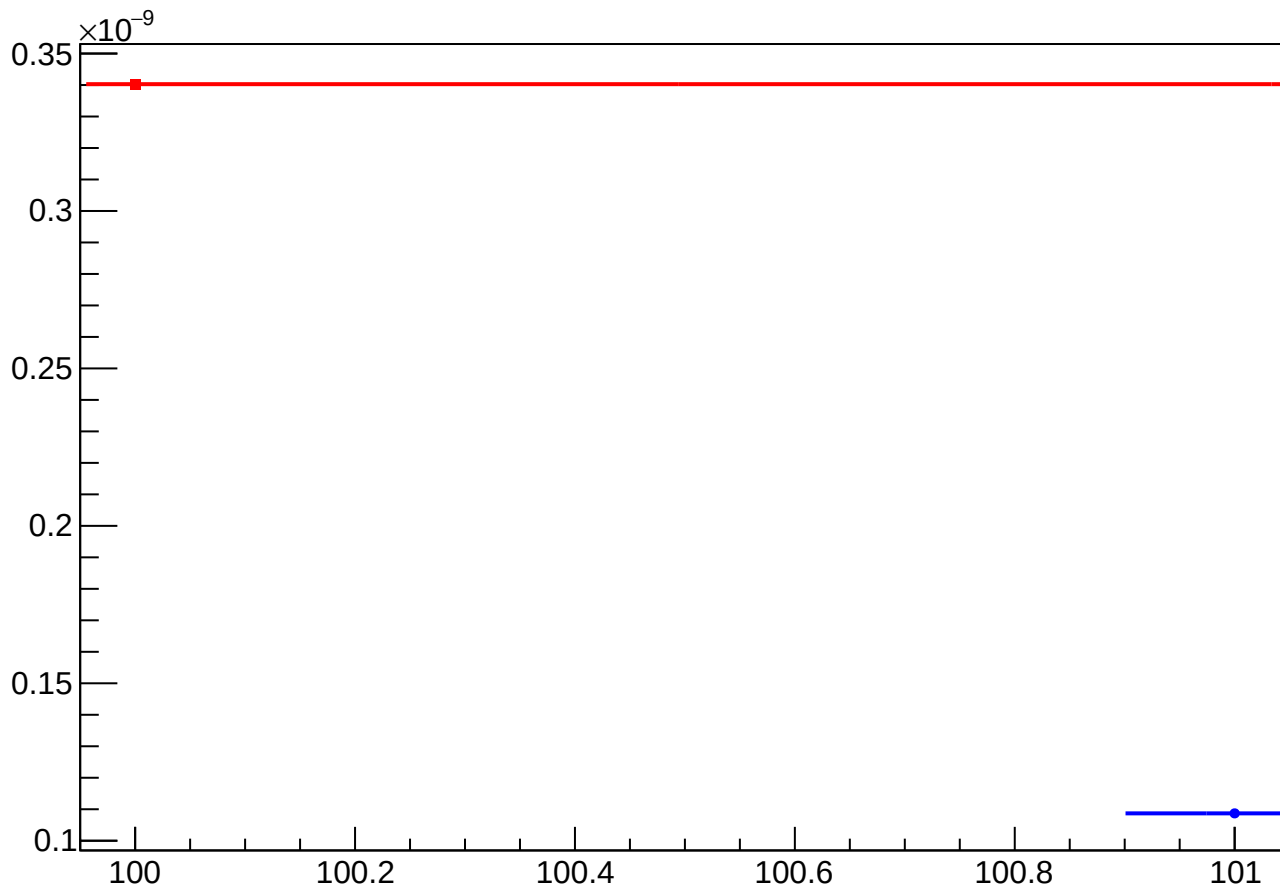
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

asym\_us\_avg\_atlr\_avg\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

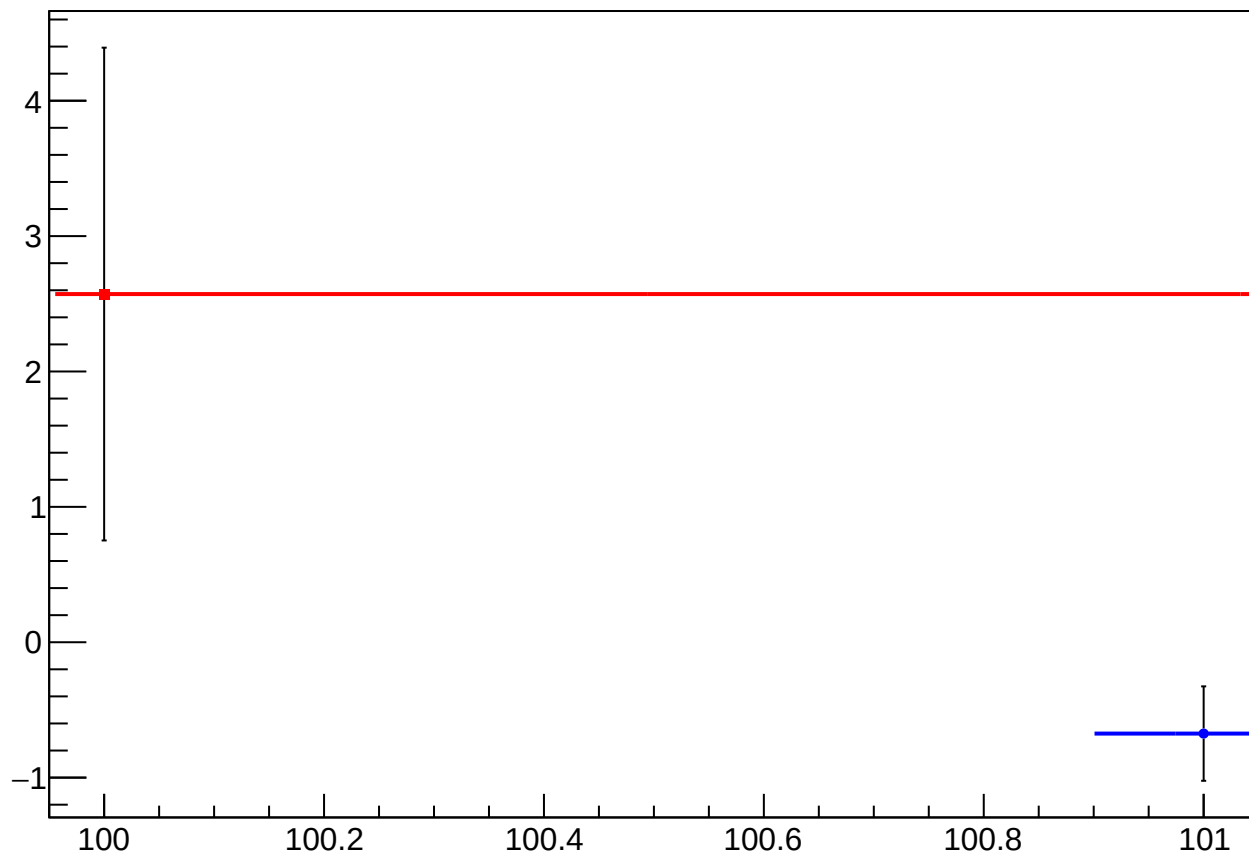
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 42860.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 42860.5/1

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.675+/-0.349  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.572+/-1.820  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

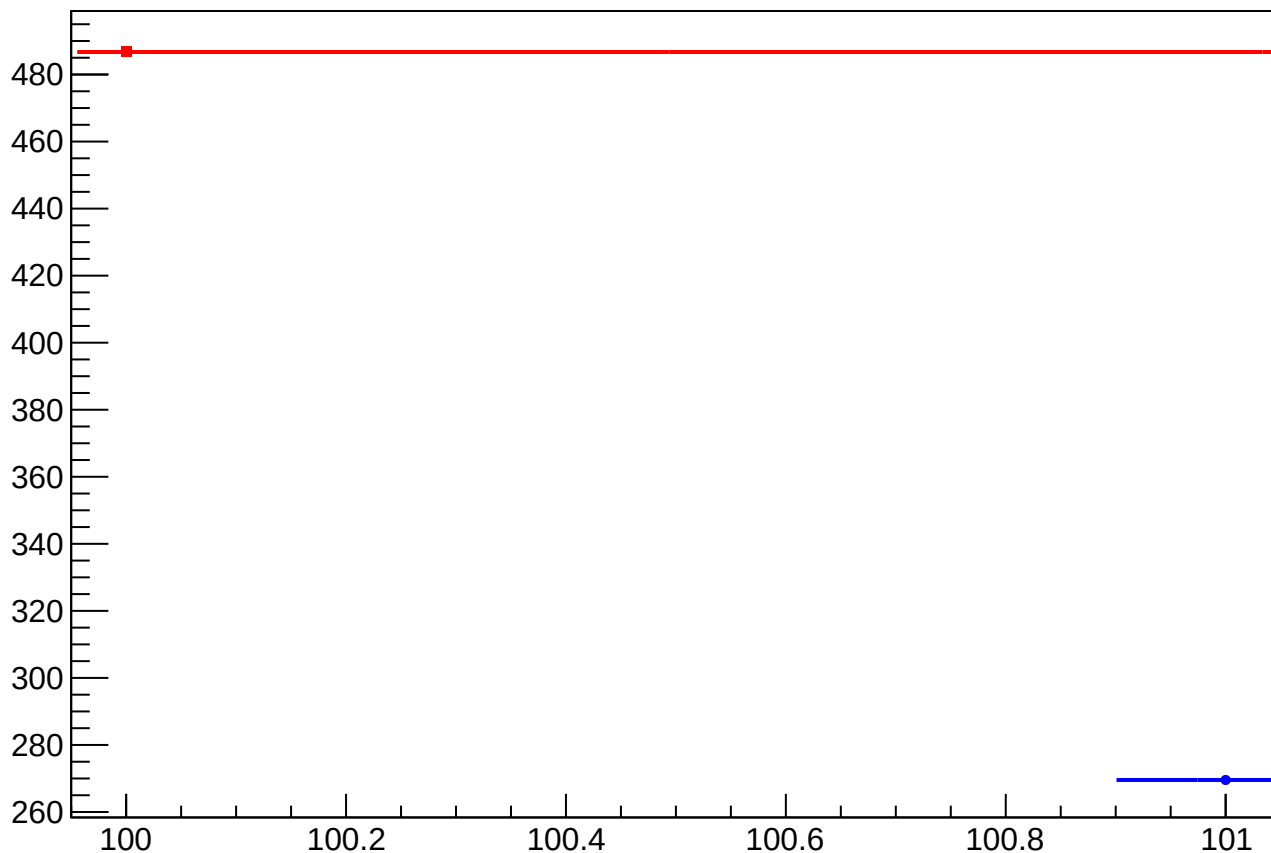
Right: -0.560+/-0.343  $\chi^2/\text{NDF}$ : 3.1/1

In: -0.675+/-0.349  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.560+/-0.343  $\chi^2/\text{NDF}$ : 3.1/1

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 269.556+/-0.247  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 486.720+/-1.287  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

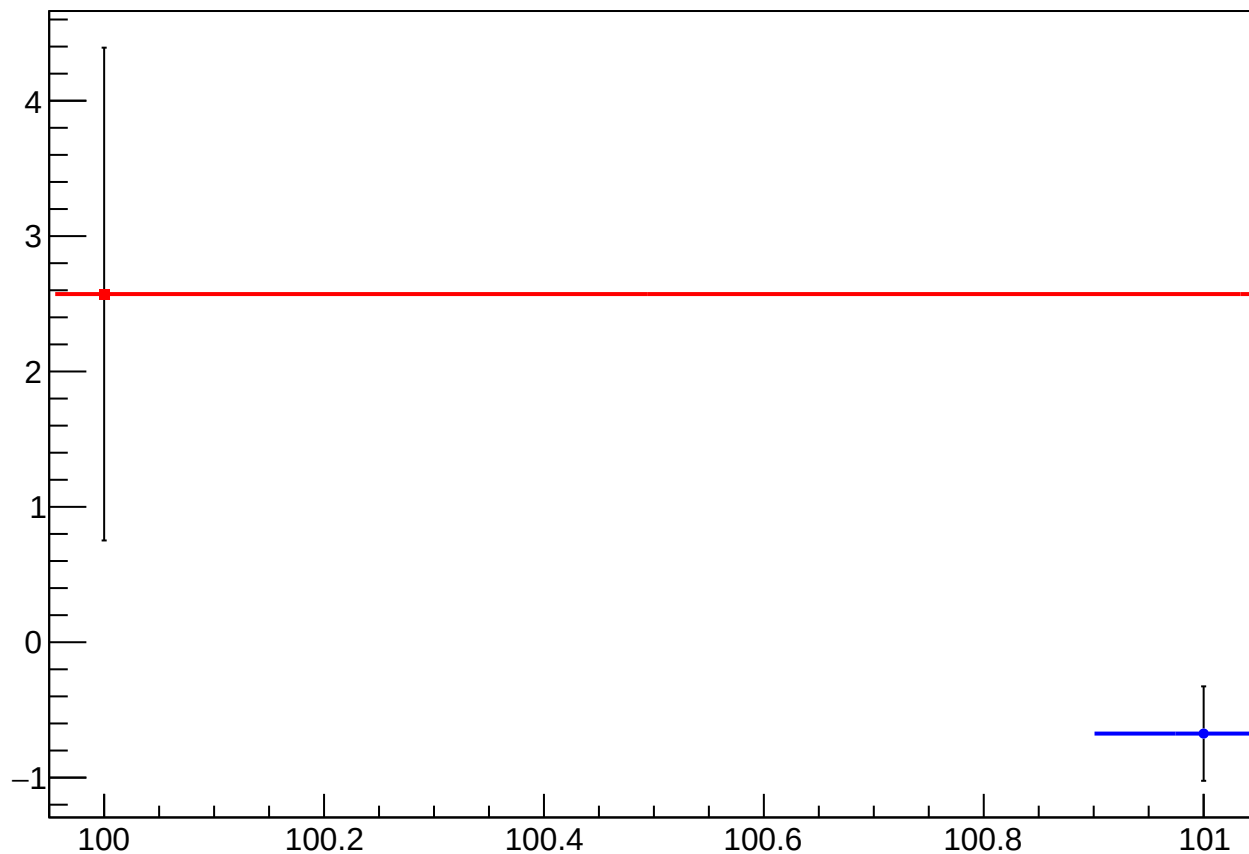
Right: 277.248+/-0.242  $\chi^2/\text{NDF}$ : 27464.0/1

In: 269.556+/-0.247  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 277.248+/-0.242  $\chi^2/\text{NDF}$ : 27464.0/1

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.675+/-0.349  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.572+/-1.820  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

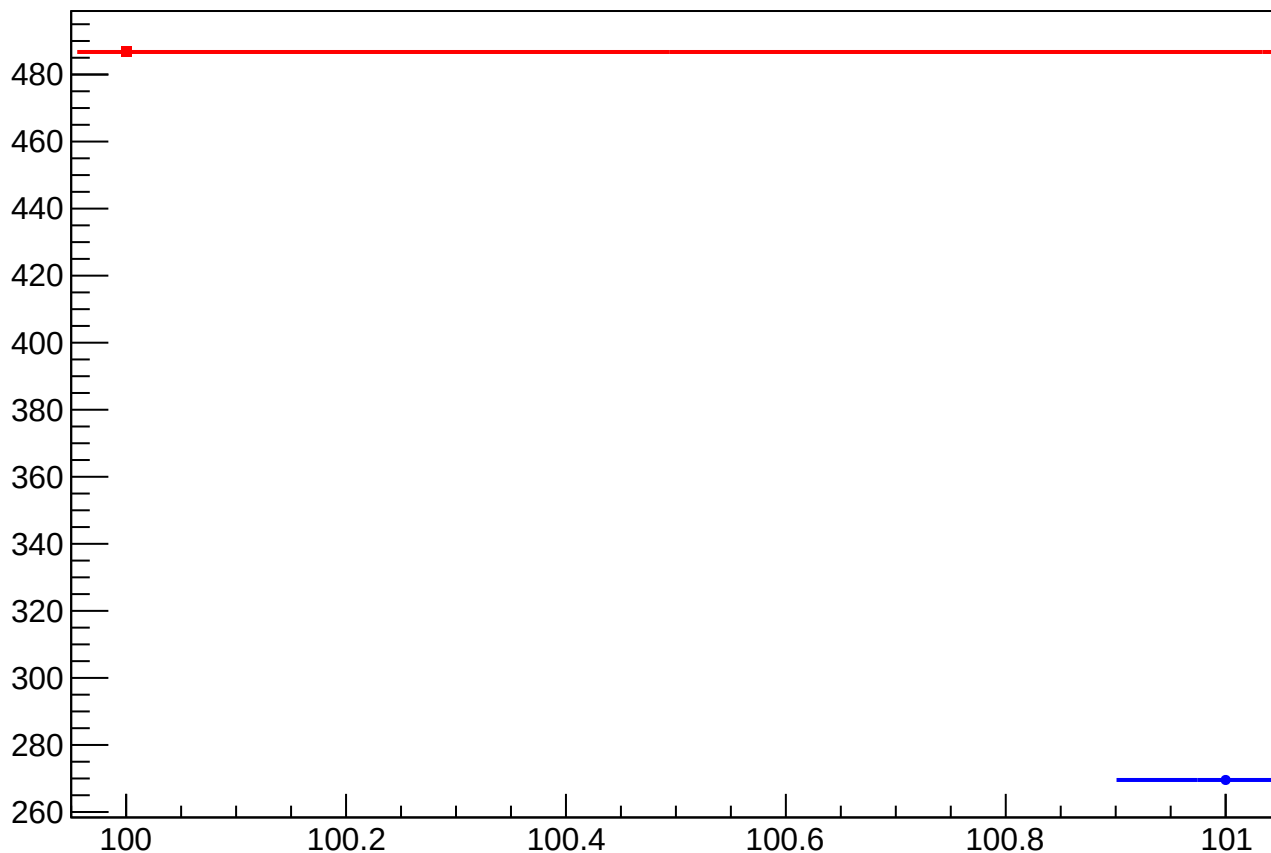
Right: -0.560+/-0.343  $\chi^2/\text{NDF}$ : 3.1/1

In: -0.675+/-0.349  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.560+/-0.343  $\chi^2/\text{NDF}$ : 3.1/1

asym\_us\_avg\_atlr\_avg\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 269.556+/-0.247  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 486.720+/-1.287  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 277.248+/-0.242  $\chi^2/\text{NDF}$ : 27464.0/1

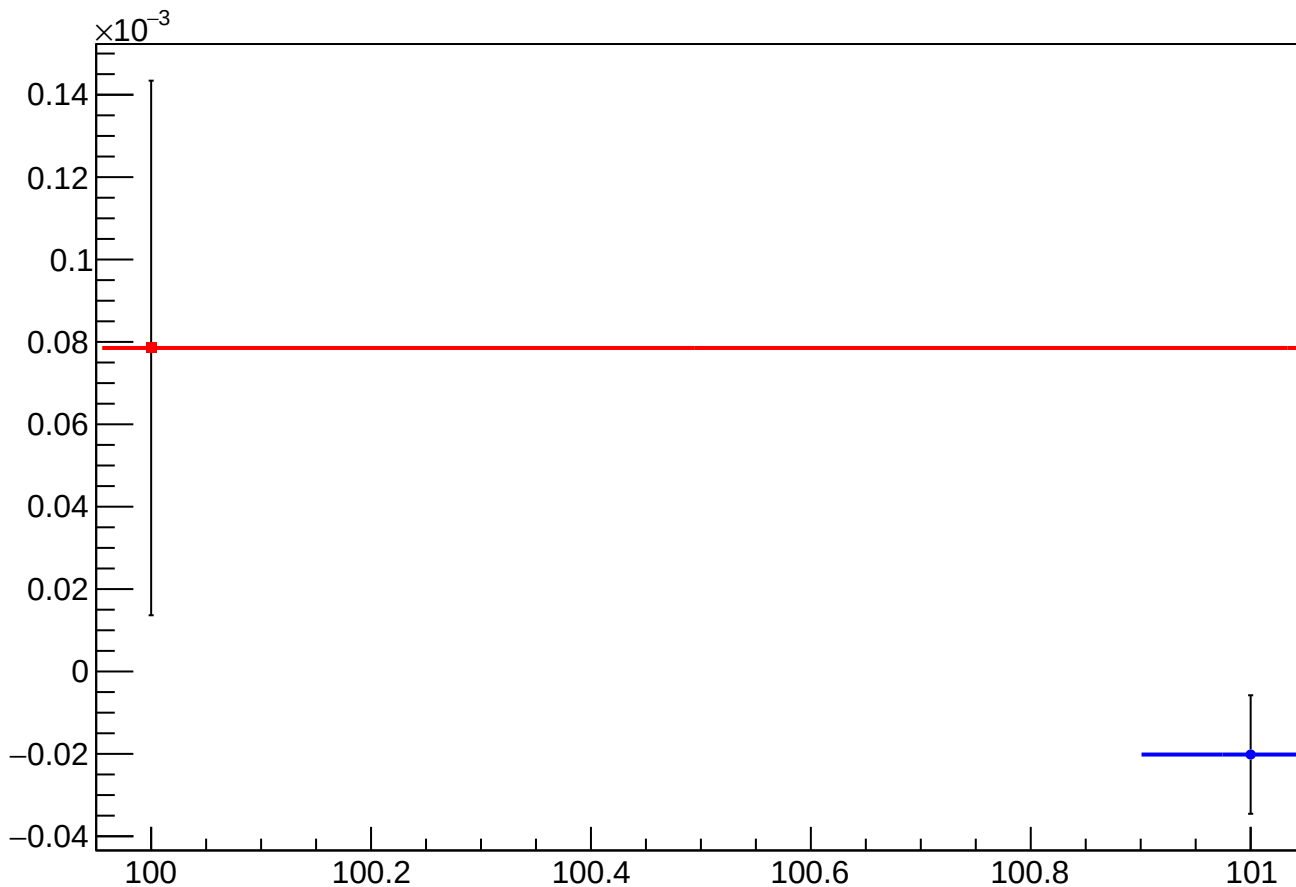
In: 269.556+/-0.247  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 277.248+/-0.242  $\chi^2/\text{NDF}$ : 27464.0/1



asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

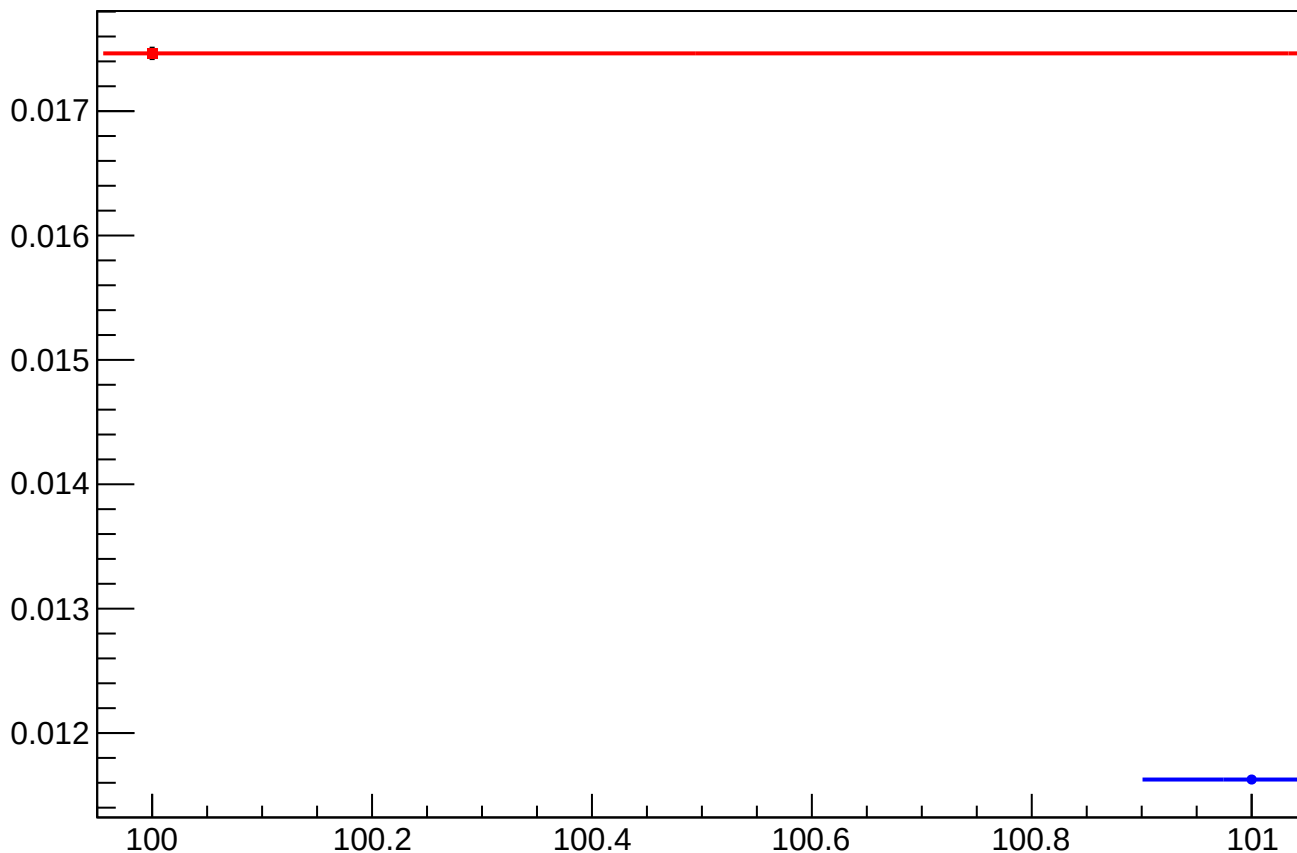
Right: -0.000+/-0.000  $\chi^2$ /NDF: 2.2/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 2.2/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

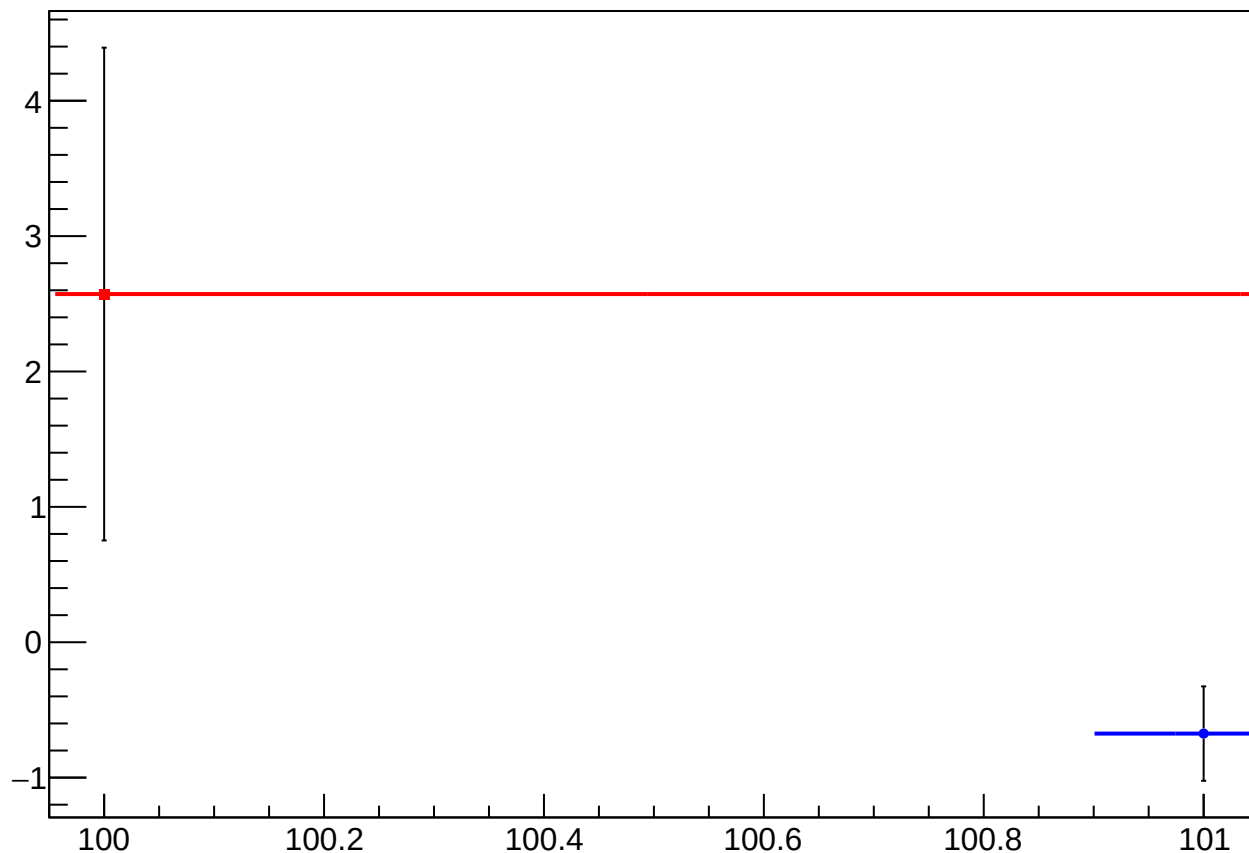
Right: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 15433.4/1

In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 15433.4/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.675+/-0.349  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.572+/-1.820  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

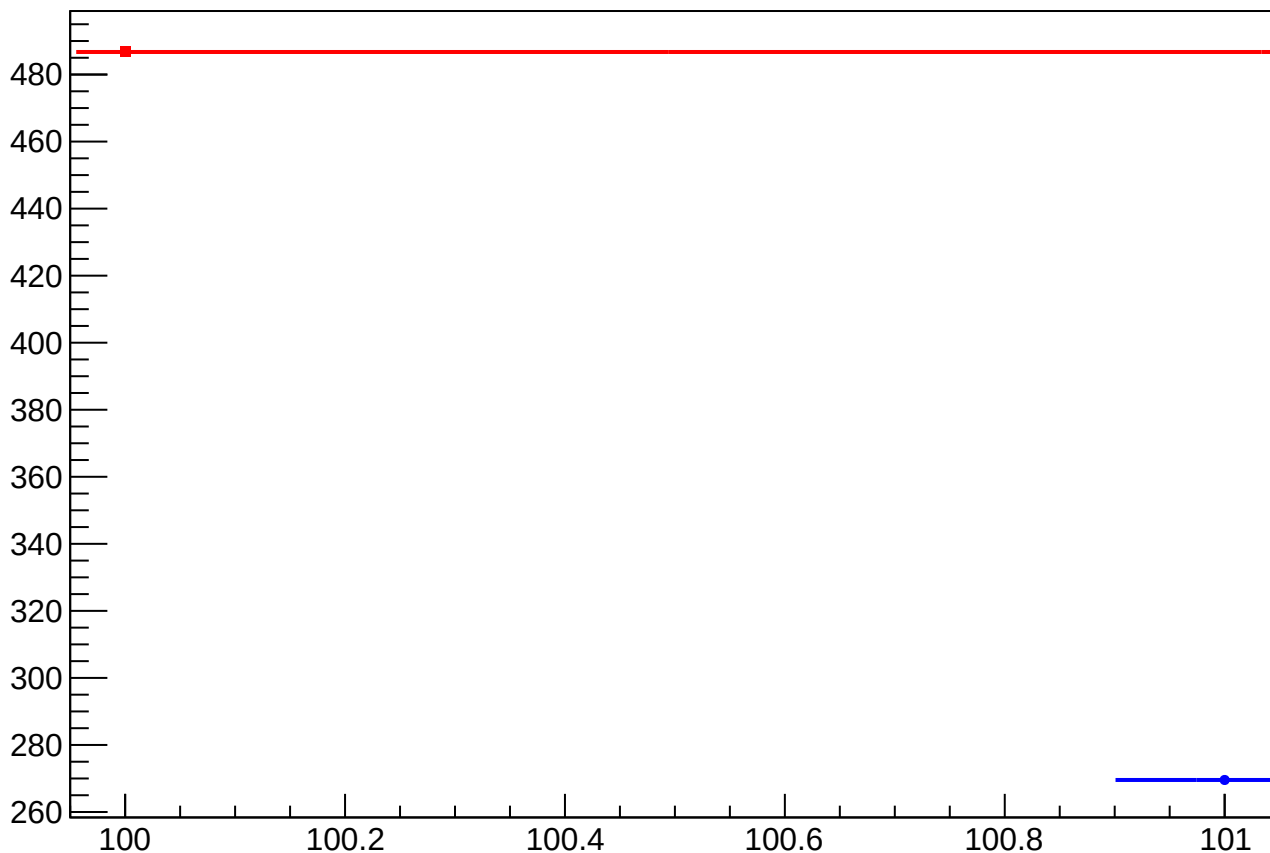
Right: -0.560+/-0.343  $\chi^2/\text{NDF}$ : 3.1/1

In: -0.675+/-0.349  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.560+/-0.343  $\chi^2/\text{NDF}$ : 3.1/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 269.554 $\pm$ 0.247  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 486.726 $\pm$ 1.287  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

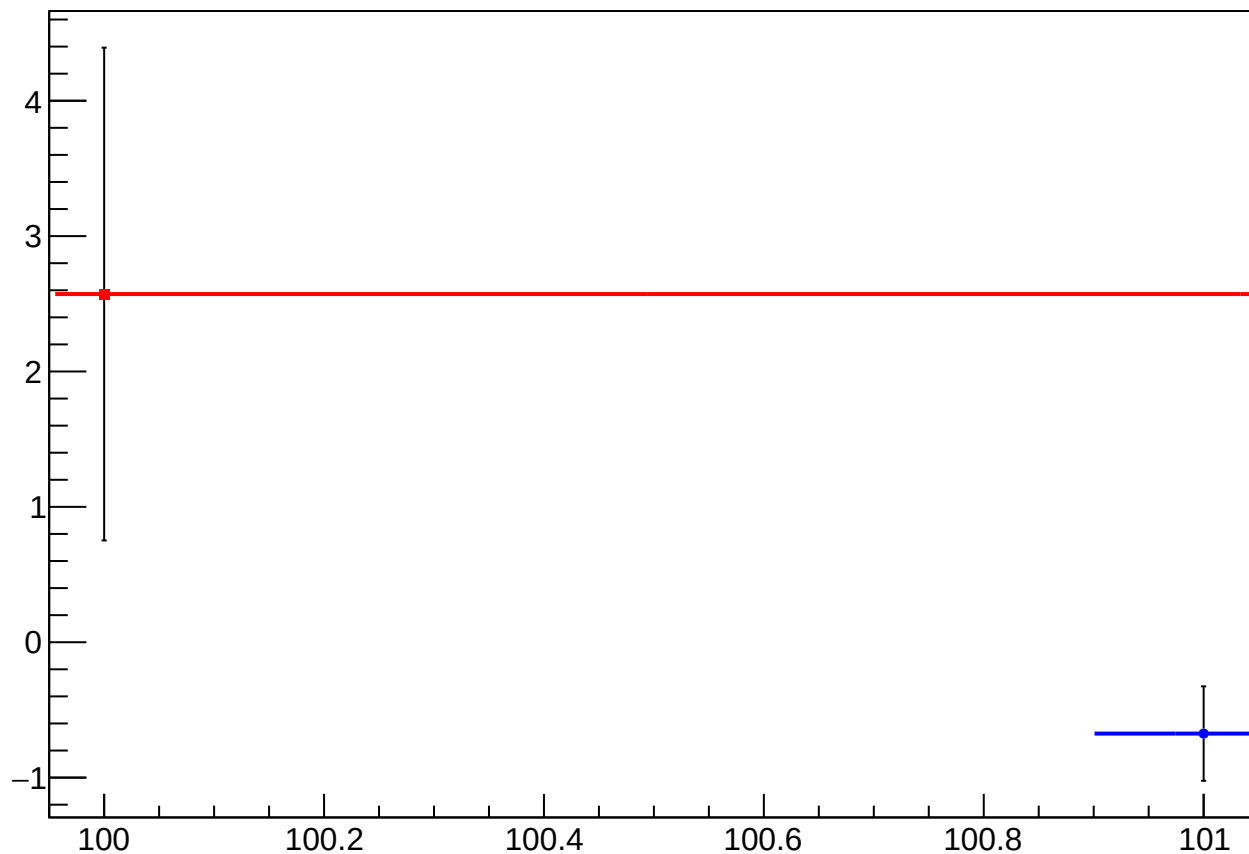
Right: 277.246 $\pm$ 0.242  $\chi^2$ /NDF: 27465.2/1

In: 269.554 $\pm$ 0.247  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 277.246 $\pm$ 0.242  $\chi^2$ /NDF: 27465.2/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.675+/-0.349  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.572+/-1.820  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

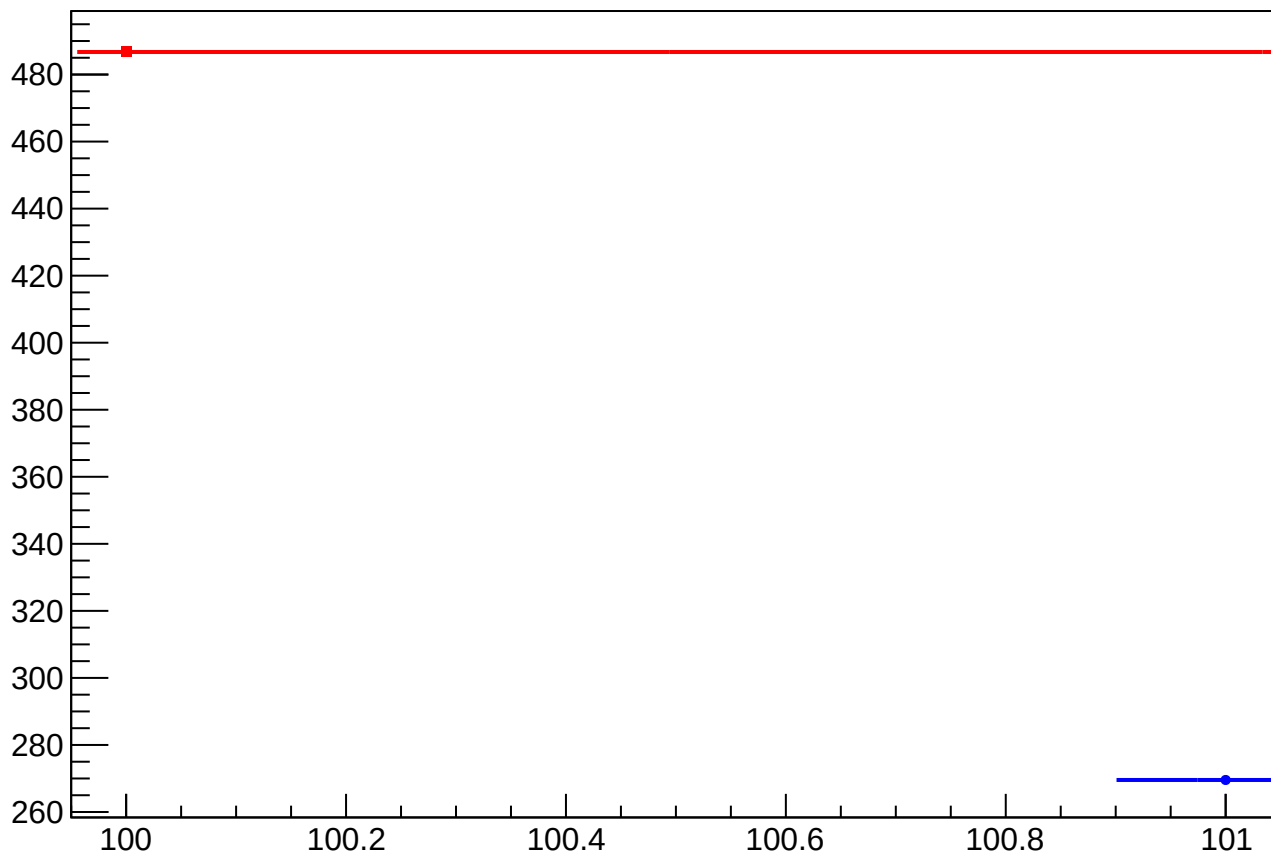
Right: -0.560+/-0.343  $\chi^2/\text{NDF}$ : 3.1/1

In: -0.675+/-0.349  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.560+/-0.343  $\chi^2/\text{NDF}$ : 3.1/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 269.554 $\pm$ 0.247  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 486.726 $\pm$ 1.287  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

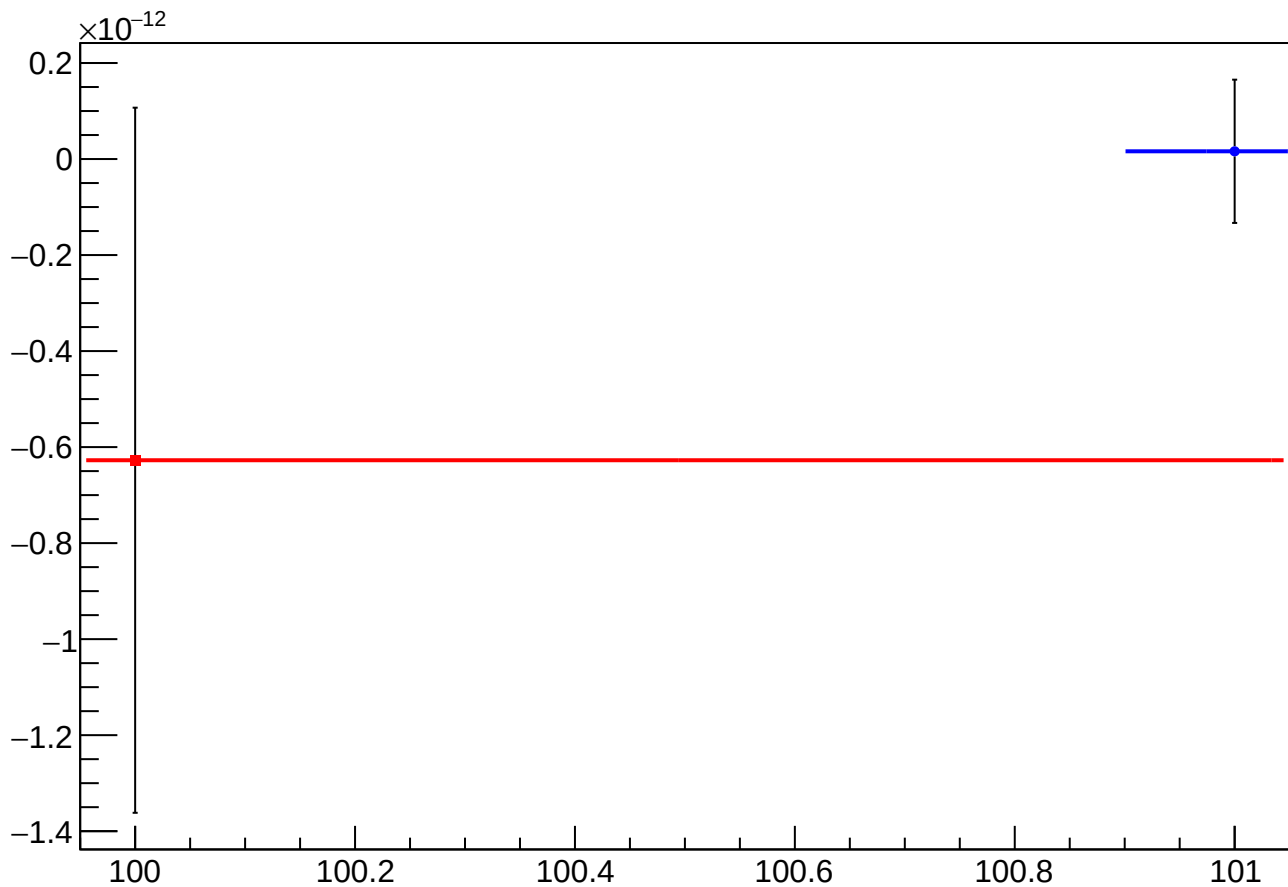
Right: 277.246 $\pm$ 0.242  $\chi^2$ /NDF: 27465.2/1

In: 269.554 $\pm$ 0.247  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 277.246 $\pm$ 0.242  $\chi^2$ /NDF: 27465.2/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

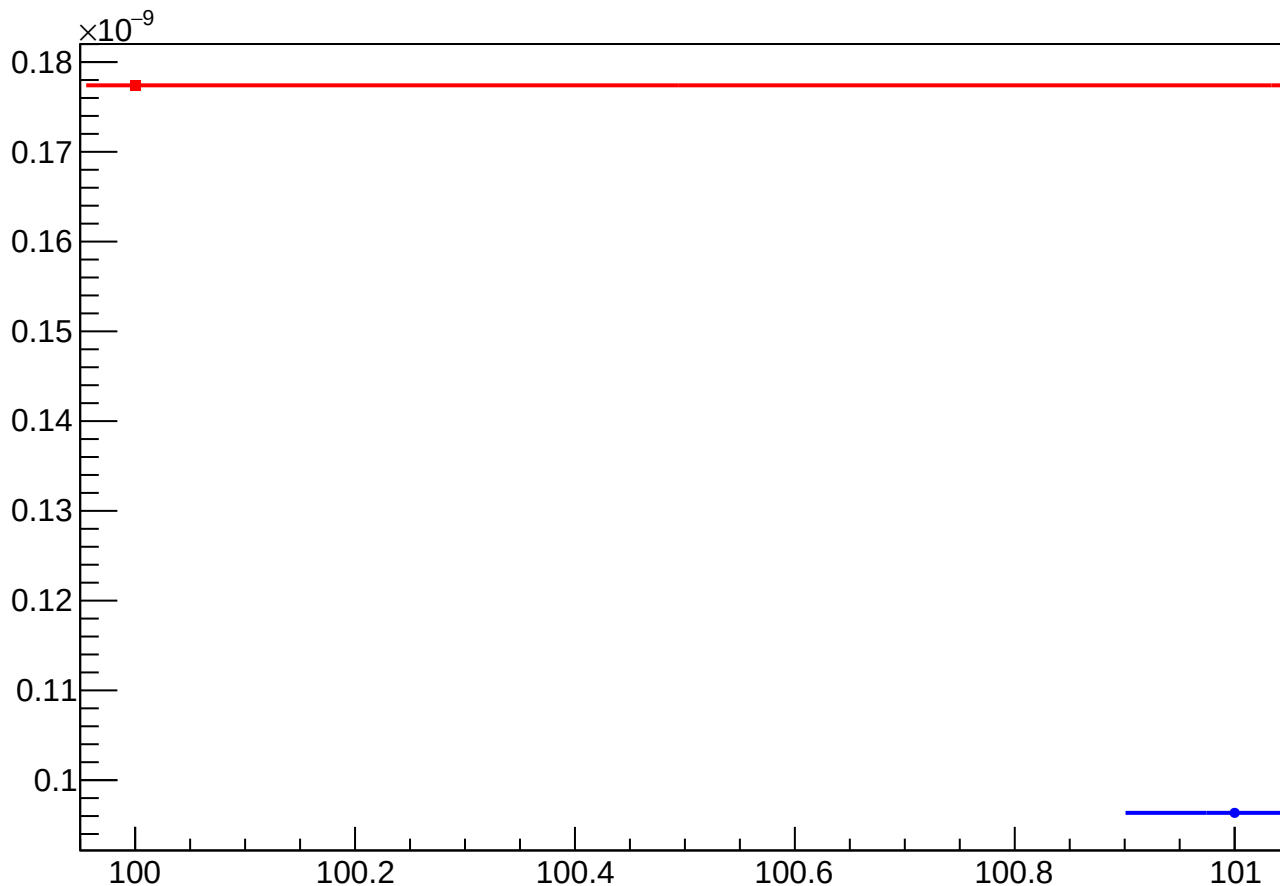
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.7/1

asym\_us\_avg\_atlr\_avg\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 23399.6/1

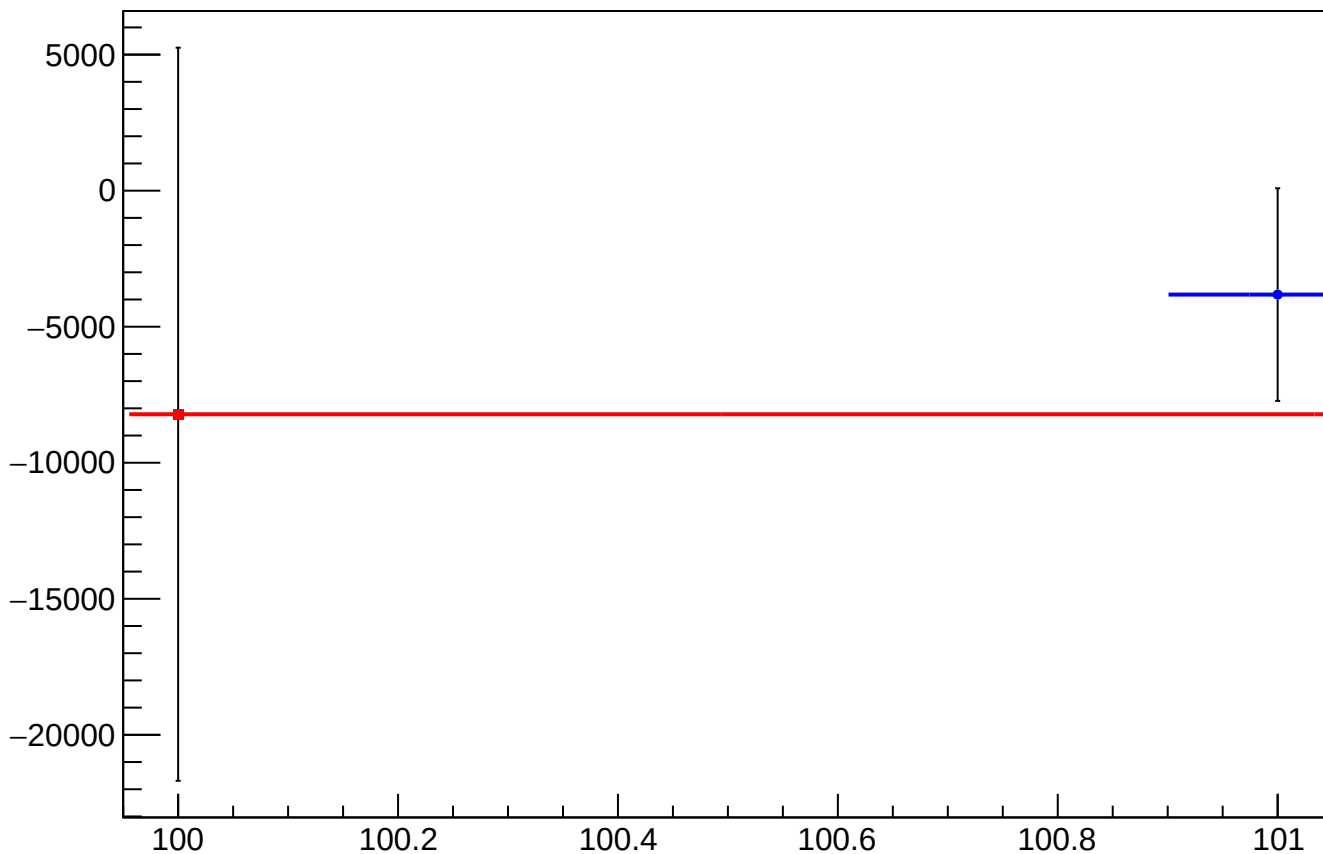
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 23399.6/1



reg\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -3819.315+/-3907.440  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8216.916+/-13472.536  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

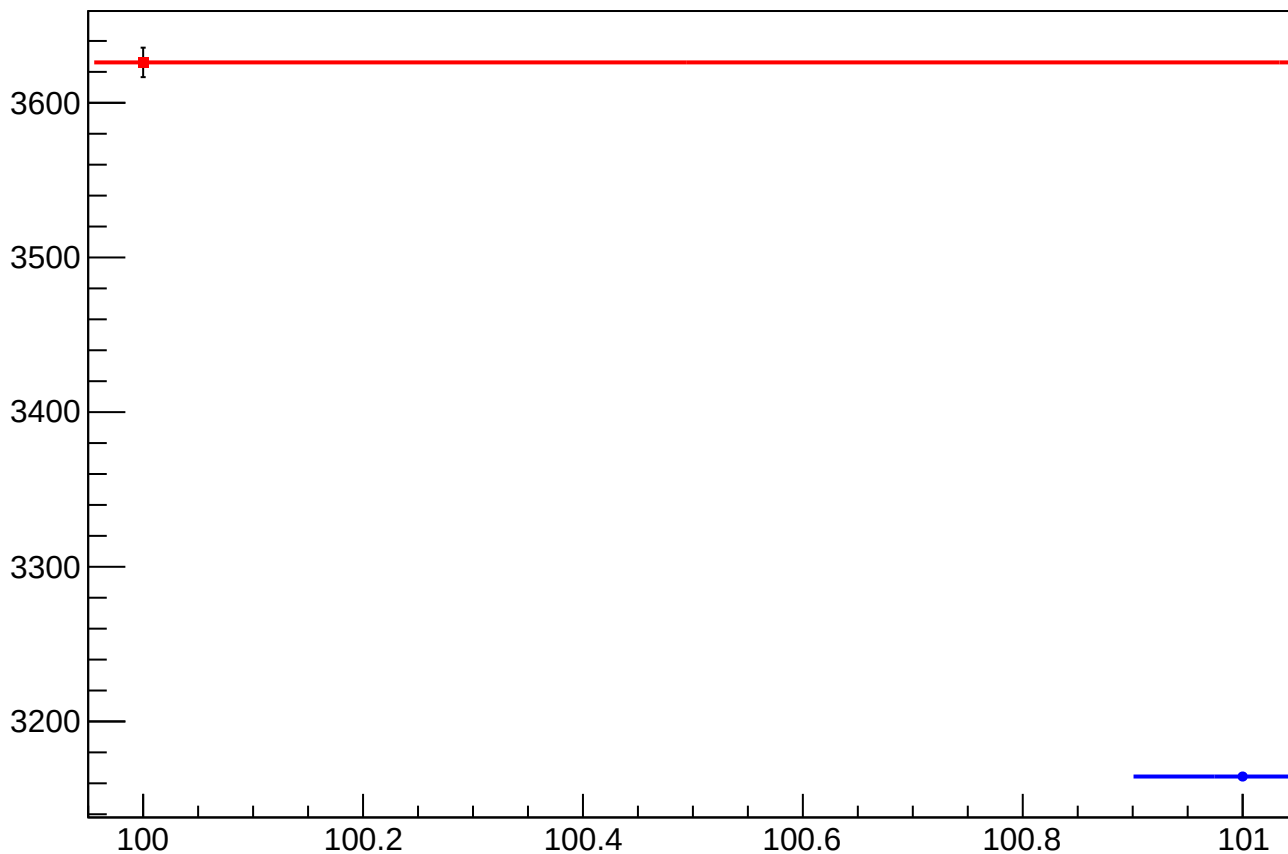
Right: -4160.528+/-3752.789  $\chi^2/\text{NDF}$ : 0.1/1

In: -3819.315+/-3907.440  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4160.528+/-3752.789  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3164.391+/-2.763  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3626.126+/-9.527  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

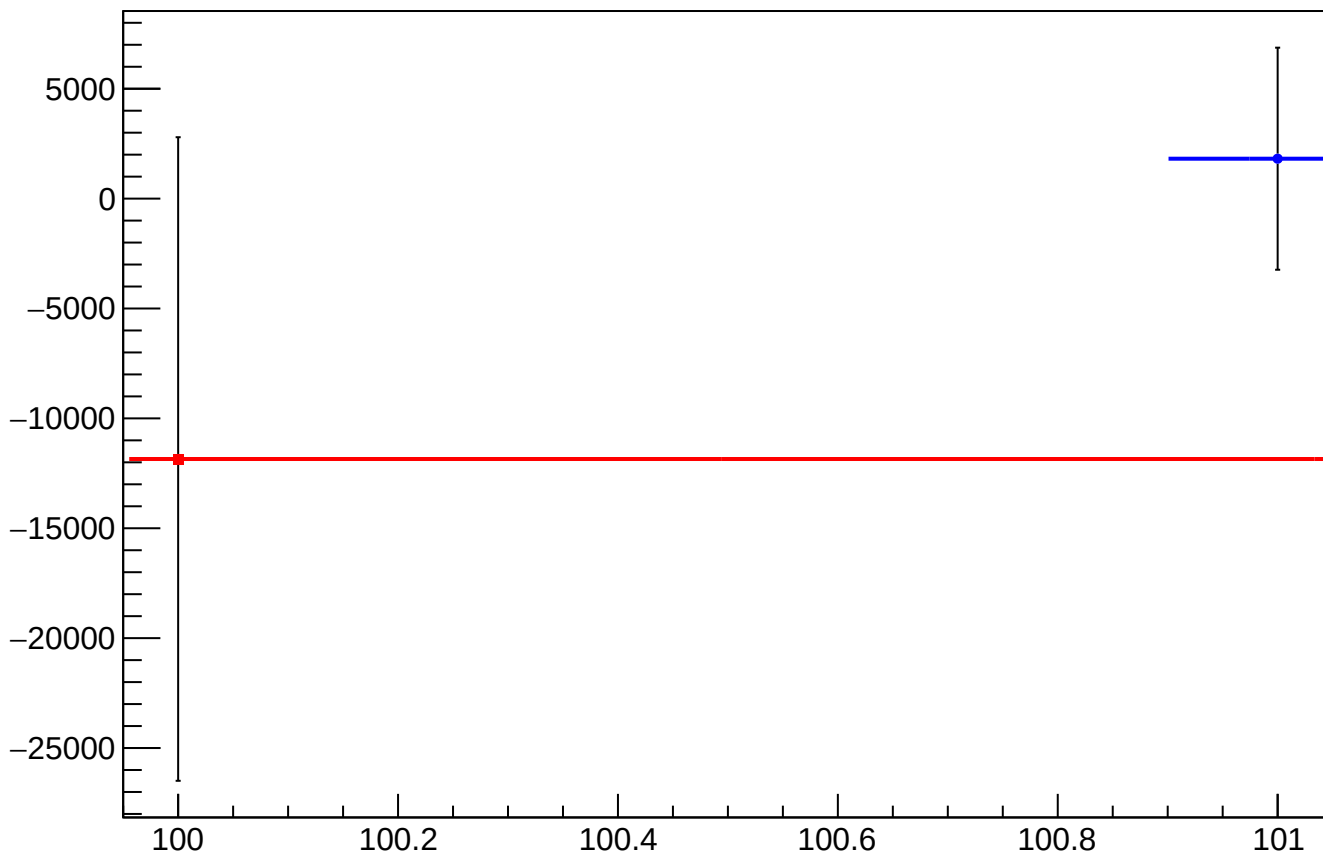
Right: 3200.218+/-2.654  $\chi^2/\text{NDF}$ : 2166.9/1

In: 3164.391+/-2.763  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3200.218+/-2.654  $\chi^2/\text{NDF}$ : 2166.9/1

asym\_us\_avg\_atlr\_avg\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1815.981+/-5052.412  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -11848.790+/-14642.747  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

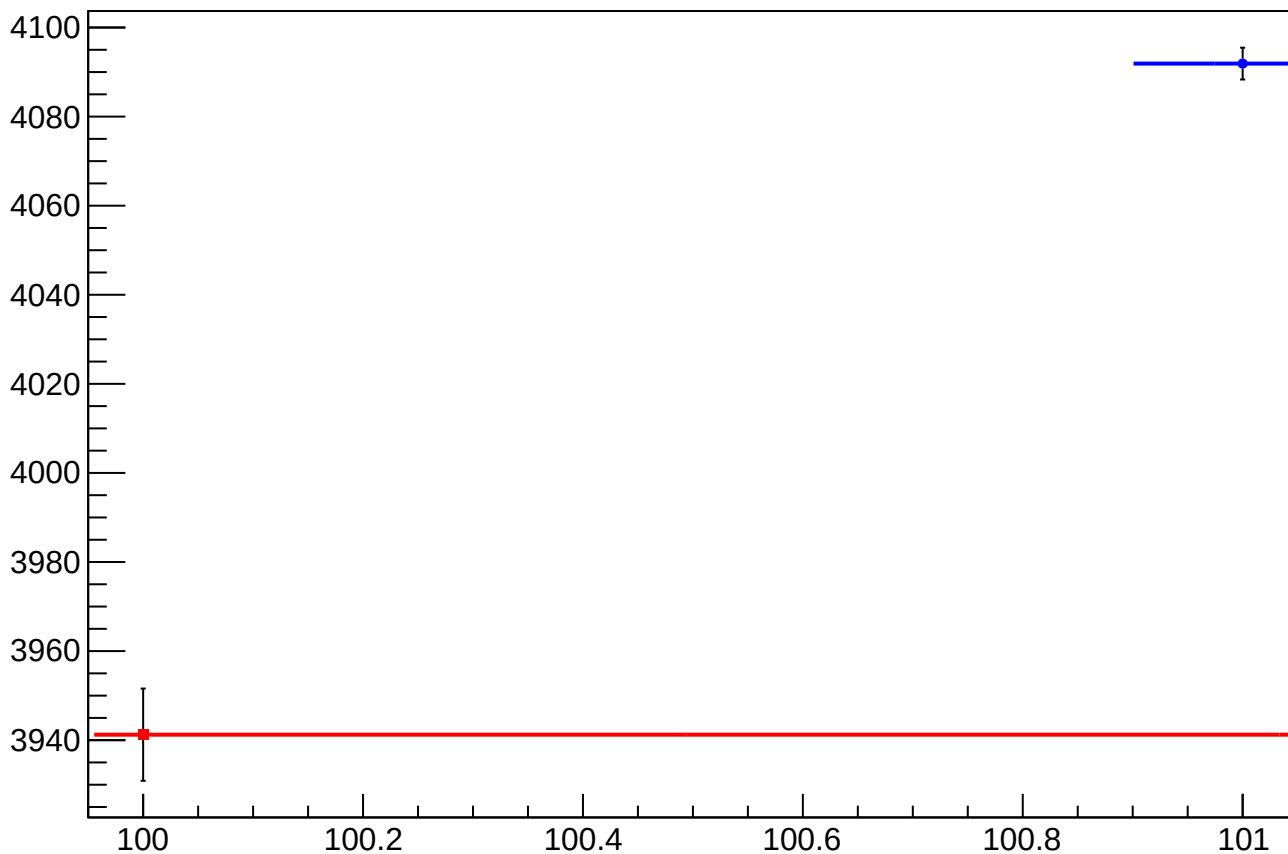
Right: 362.187+/-4776.093  $\chi^2$ /NDF: 0.8/1

In: 1815.981+/-5052.412  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 362.187+/-4776.093  $\chi^2$ /NDF: 0.8/1

asym\_us\_avg\_atlr\_avg\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4091.903 $\pm$ 3.573  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3941.234 $\pm$ 10.354  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

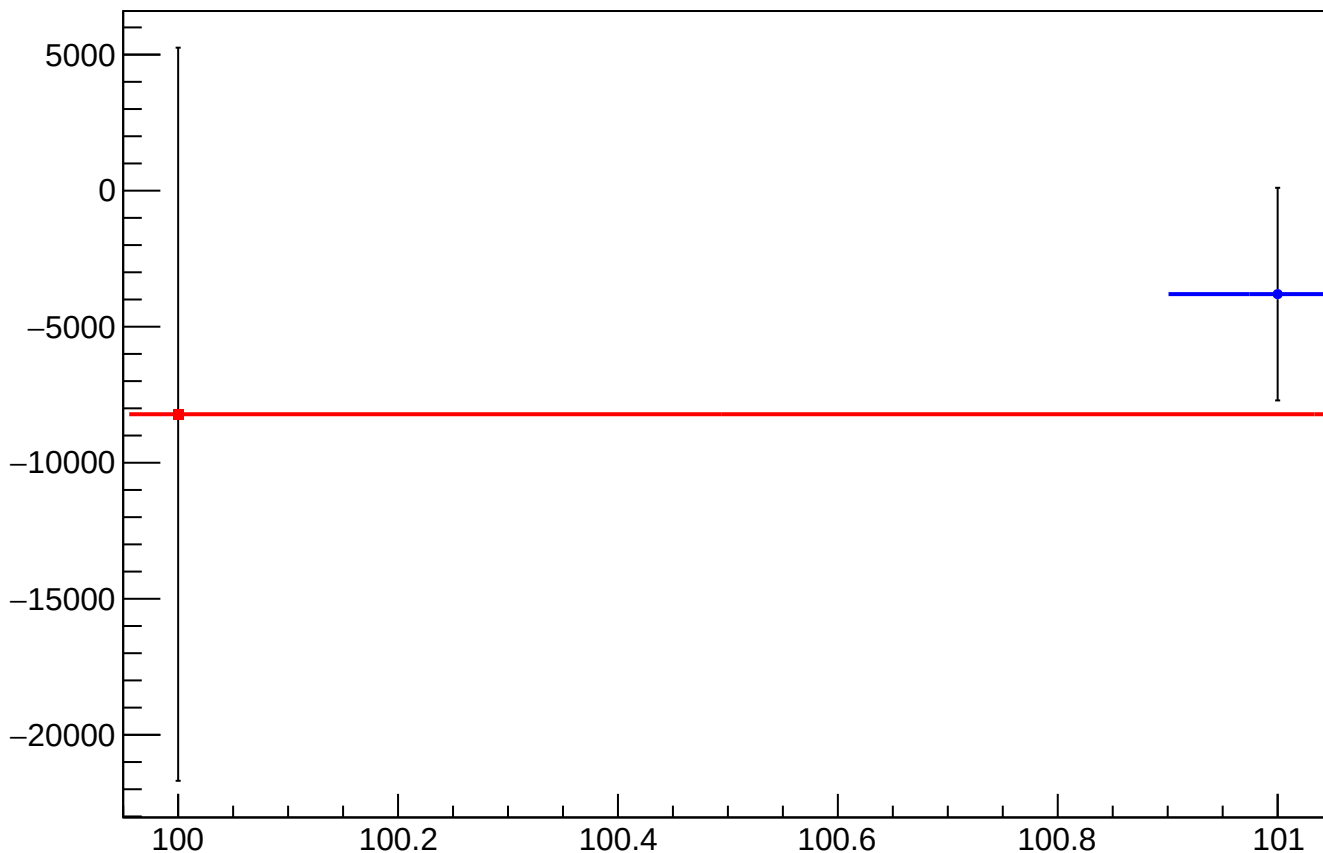
Right: 4075.873 $\pm$ 3.377  $\chi^2/\text{NDF}$ : 189.2/1

In: 4091.903 $\pm$ 3.573  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4075.873 $\pm$ 3.377  $\chi^2/\text{NDF}$ : 189.2/1

cor\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -3801.999 $\pm$ 3907.459  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8217.023 $\pm$ 13472.536  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

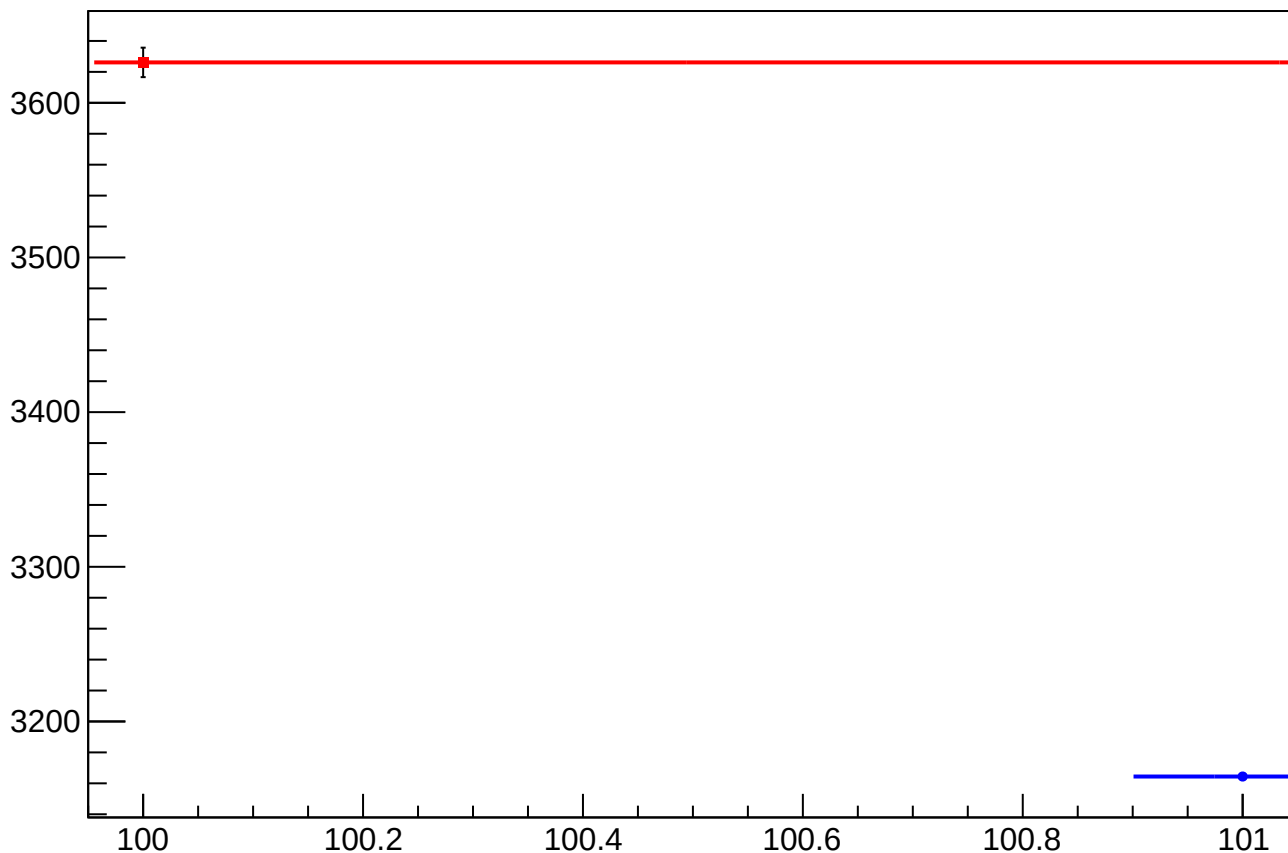
Right: -4144.567 $\pm$ 3752.806  $\chi^2$ /NDF: 0.1/1

In: -3801.999 $\pm$ 3907.459  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4144.567 $\pm$ 3752.806  $\chi^2$ /NDF: 0.1/1

cor\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3164.403 $\pm$ 2.763  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3626.126 $\pm$ 9.527  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

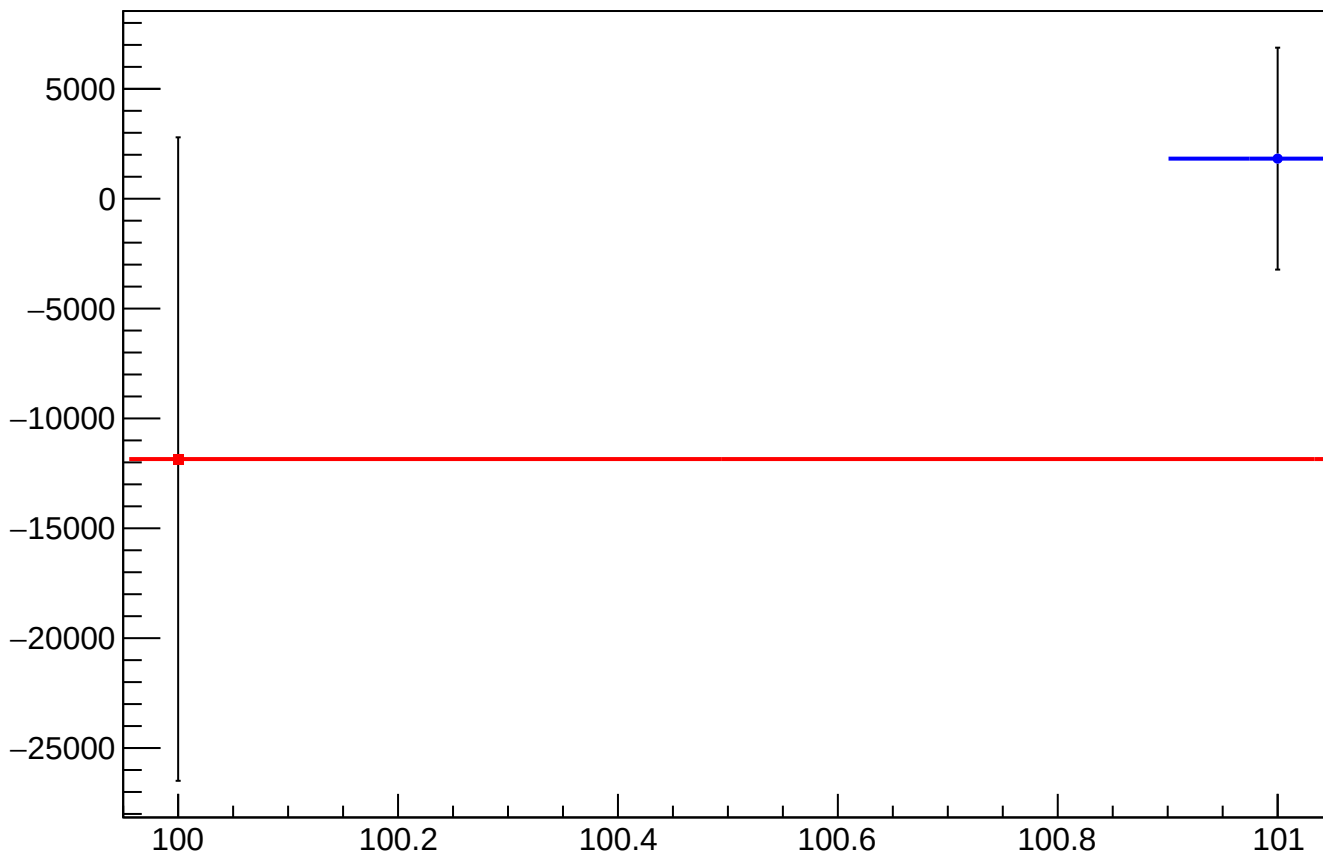
Right: 3200.229 $\pm$ 2.654  $\chi^2$ /NDF: 2166.8/1

In: 3164.403 $\pm$ 2.763  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3200.229 $\pm$ 2.654  $\chi^2$ /NDF: 2166.8/1

asym\_us\_avg\_atlr\_avg\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1823.993+/-5050.151  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11848.901+/-14642.745  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

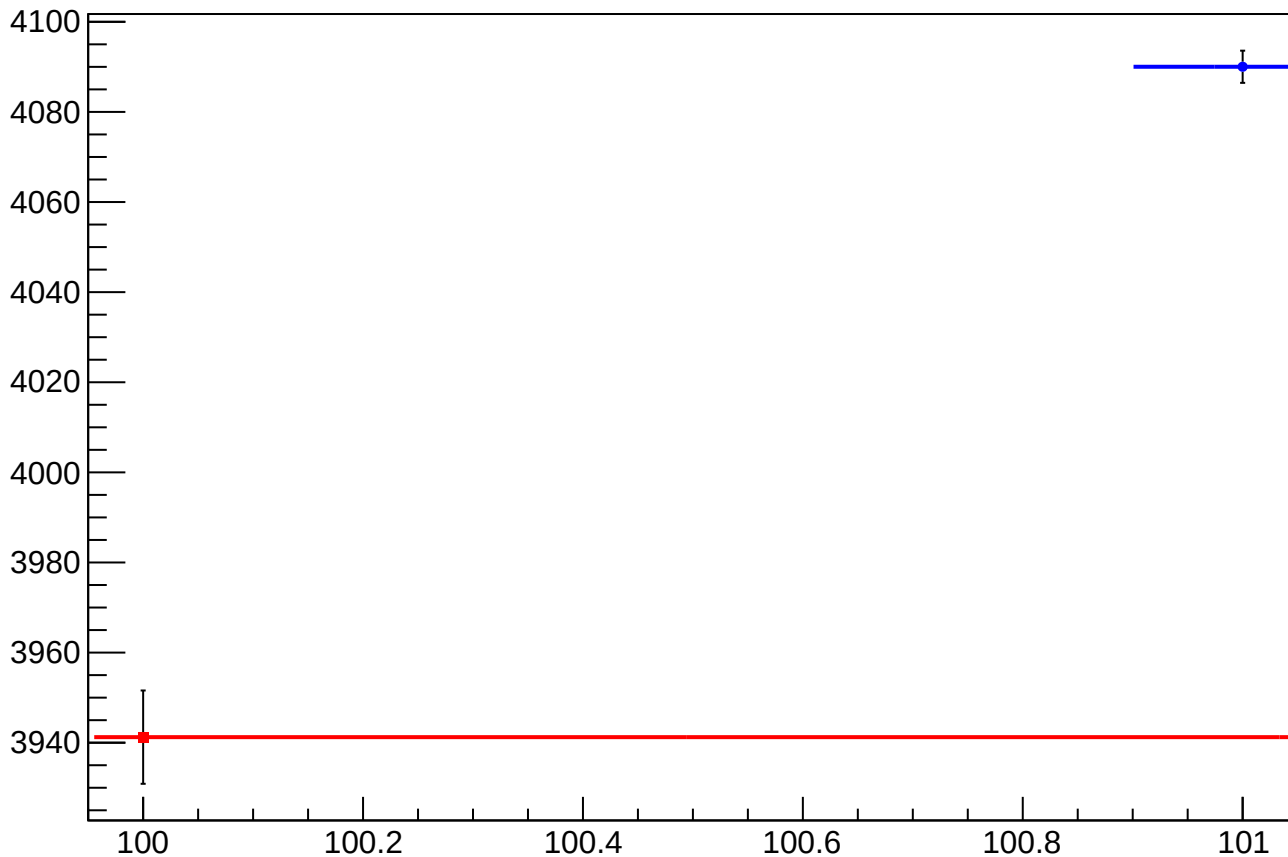
Right: 370.498+/-4774.183  $\chi^2/\text{NDF}$ : 0.8/1

In: 1823.993+/-5050.151  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 370.498+/-4774.183  $\chi^2/\text{NDF}$ : 0.8/1

asym\_us\_avg\_atlr\_avg\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4090.023+/-3.571  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3941.233+/-10.354  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4074.206+/-3.376  $\chi^2/\text{NDF}$ : 184.6/1

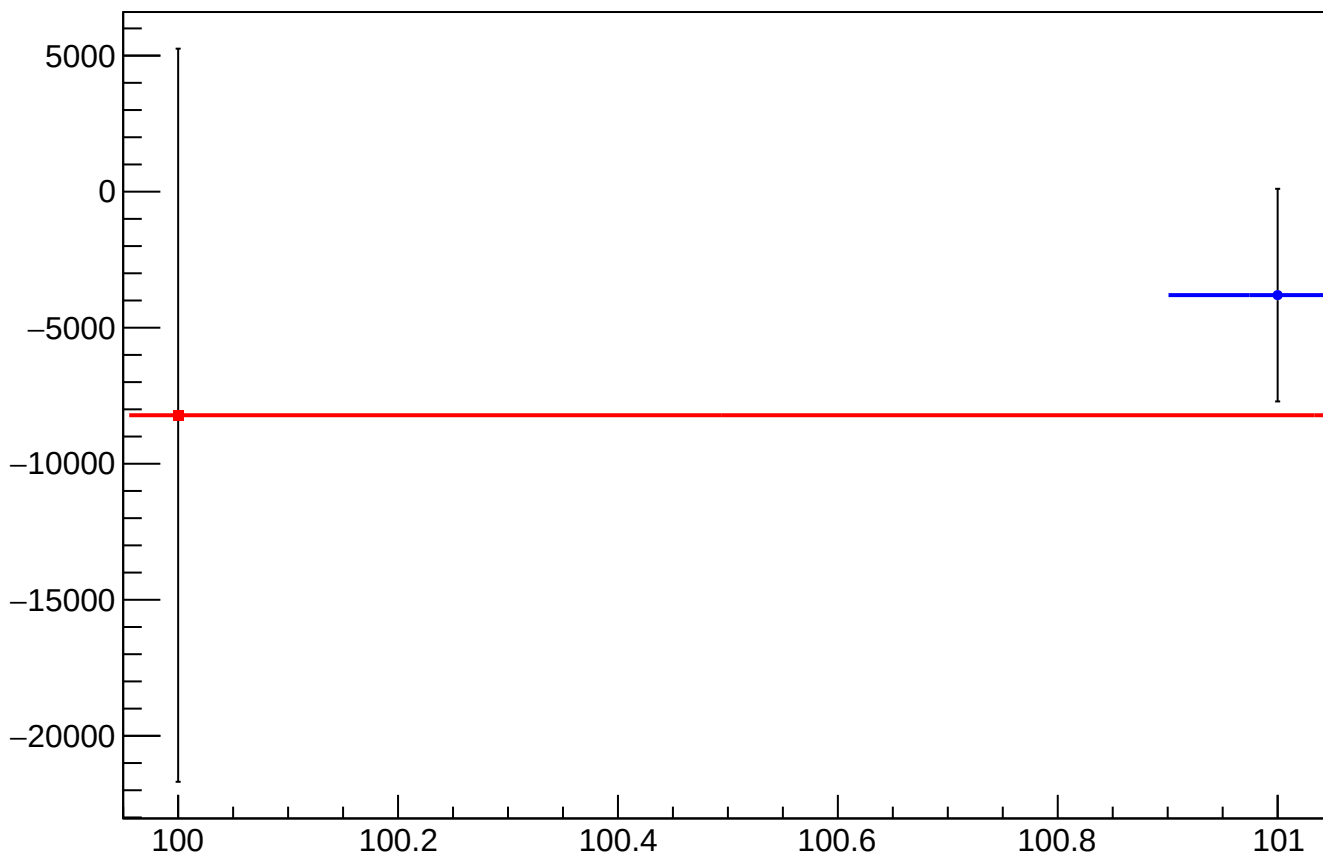
In: 4090.023+/-3.571  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4074.206+/-3.376  $\chi^2/\text{NDF}$ : 184.6/1



eigen\_cor\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -3801.999+/-3907.459  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8217.023+/-13472.536  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

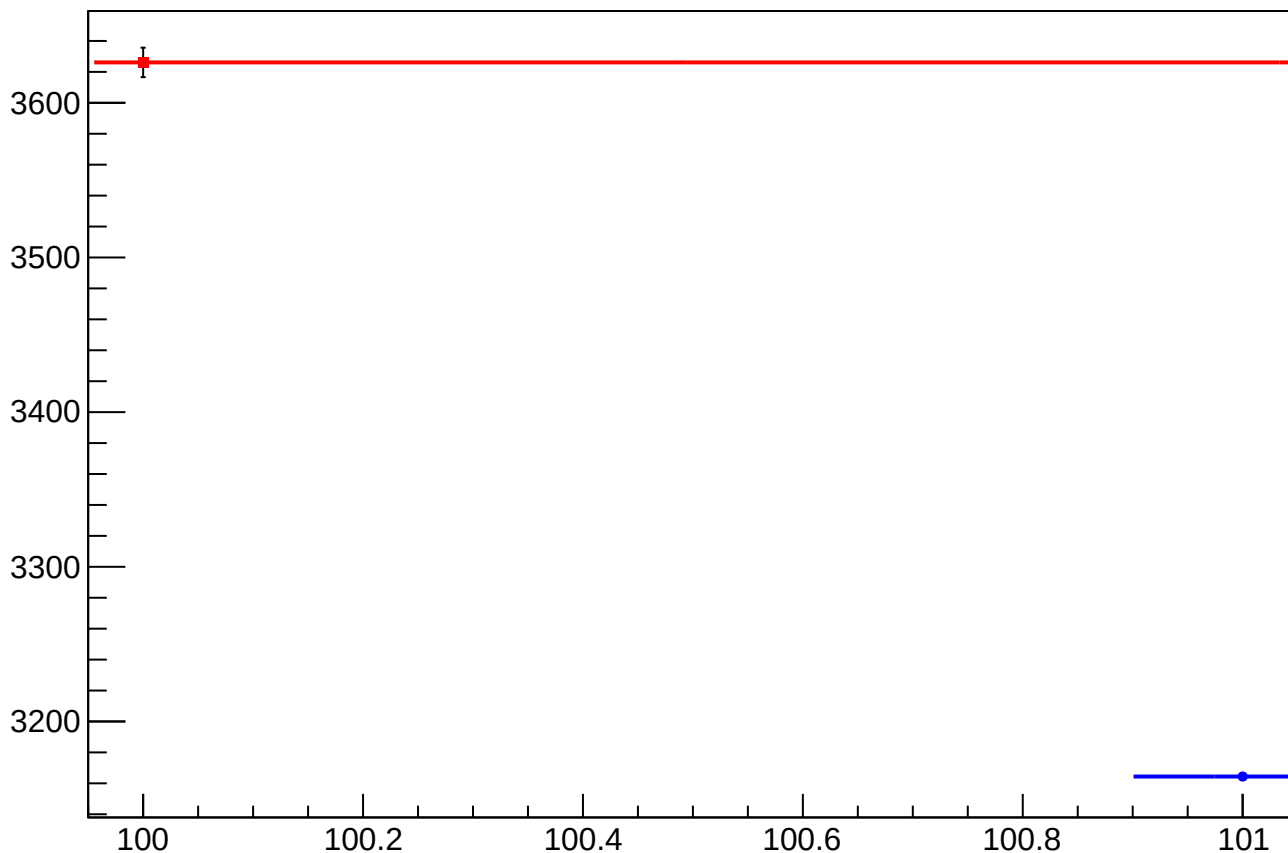
Right: -4144.567+/-3752.806  $\chi^2/\text{NDF}$ : 0.1/1

In: -3801.999+/-3907.459  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4144.567+/-3752.806  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3164.403+/-2.763  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3626.126+/-9.527  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

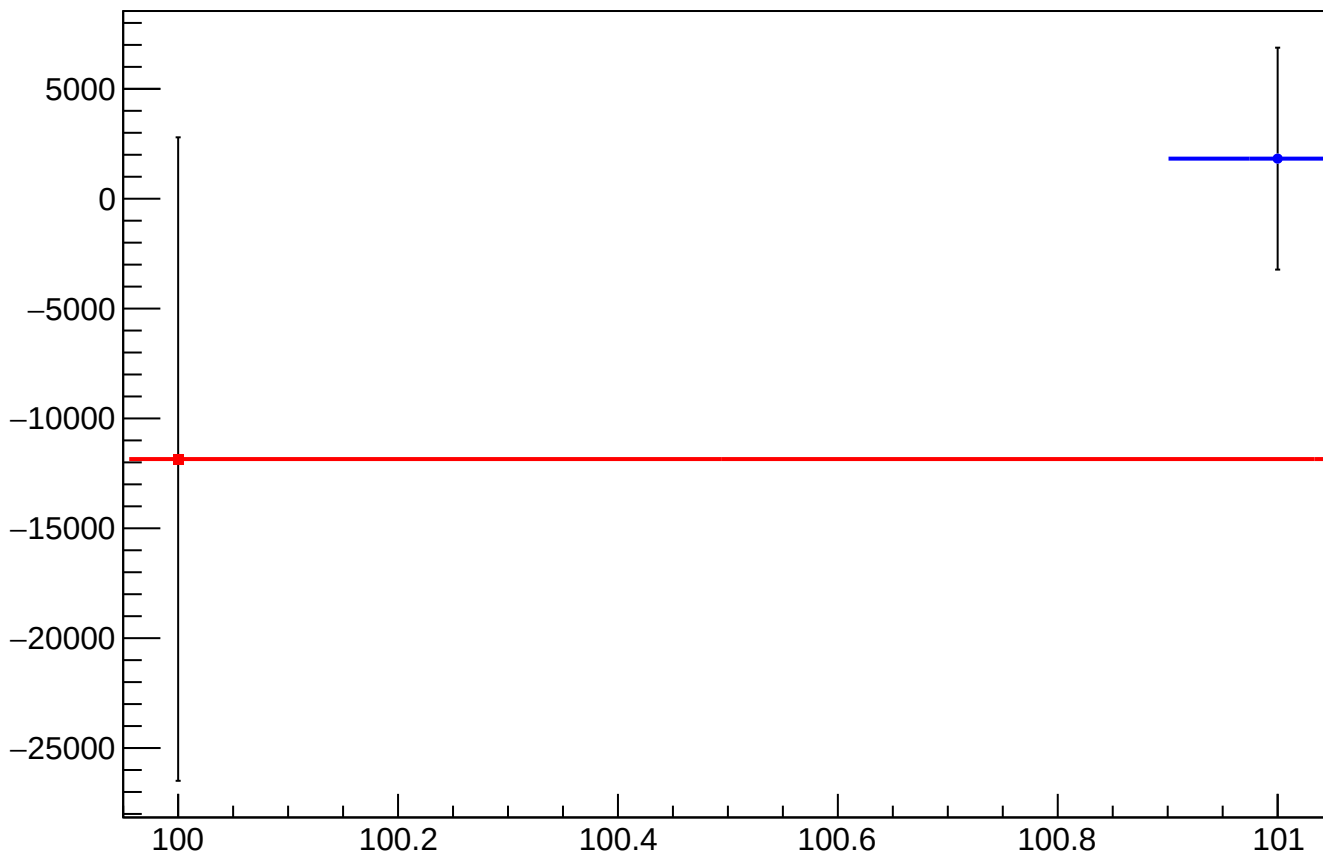
Right: 3200.229+/-2.654  $\chi^2/\text{NDF}$ : 2166.8/1

In: 3164.403+/-2.763  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3200.229+/-2.654  $\chi^2/\text{NDF}$ : 2166.8/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1823.993+/-5050.151  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11848.901+/-14642.745  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

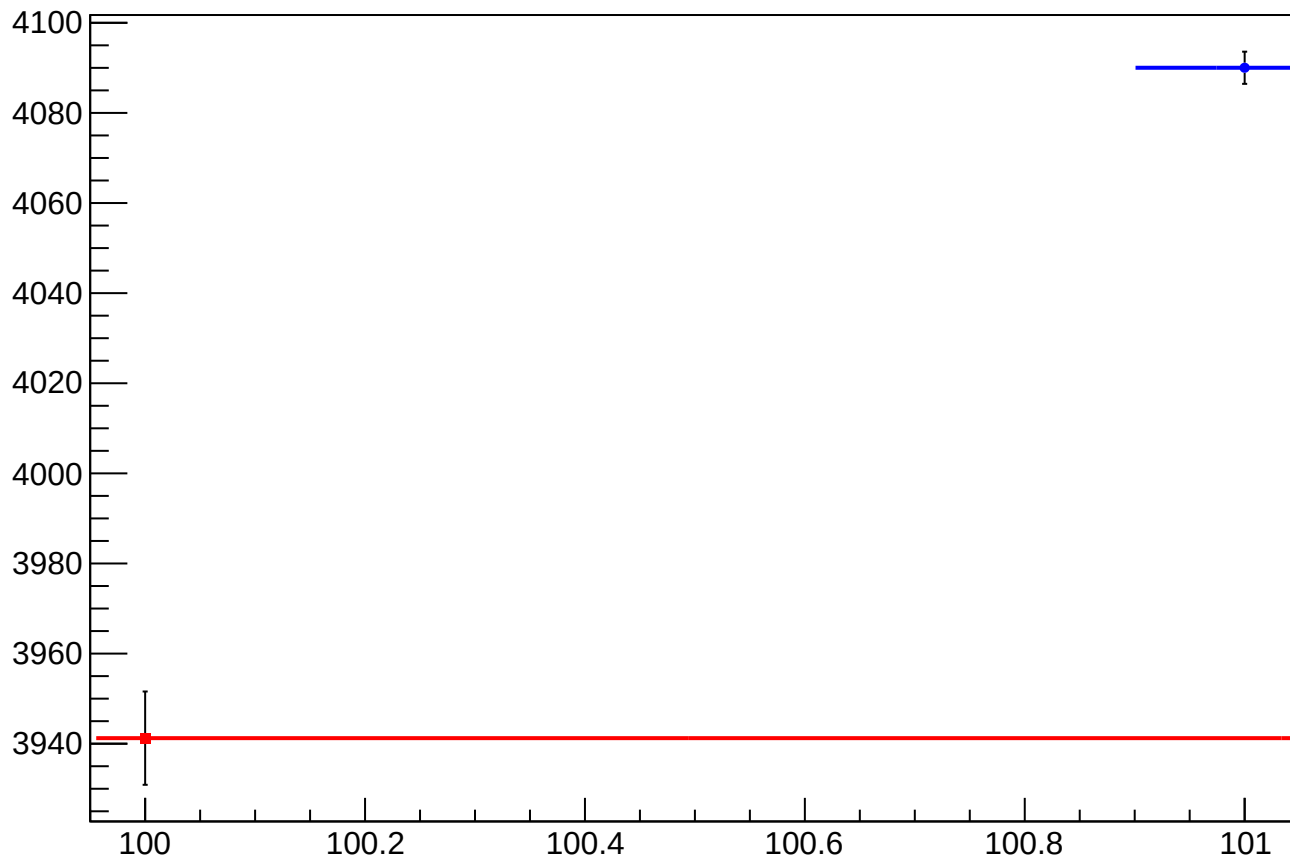
Right: 370.498+/-4774.183  $\chi^2/\text{NDF}$ : 0.8/1

In: 1823.993+/-5050.151  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 370.498+/-4774.183  $\chi^2/\text{NDF}$ : 0.8/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4090.023+/-3.571  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3941.233+/-10.354  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

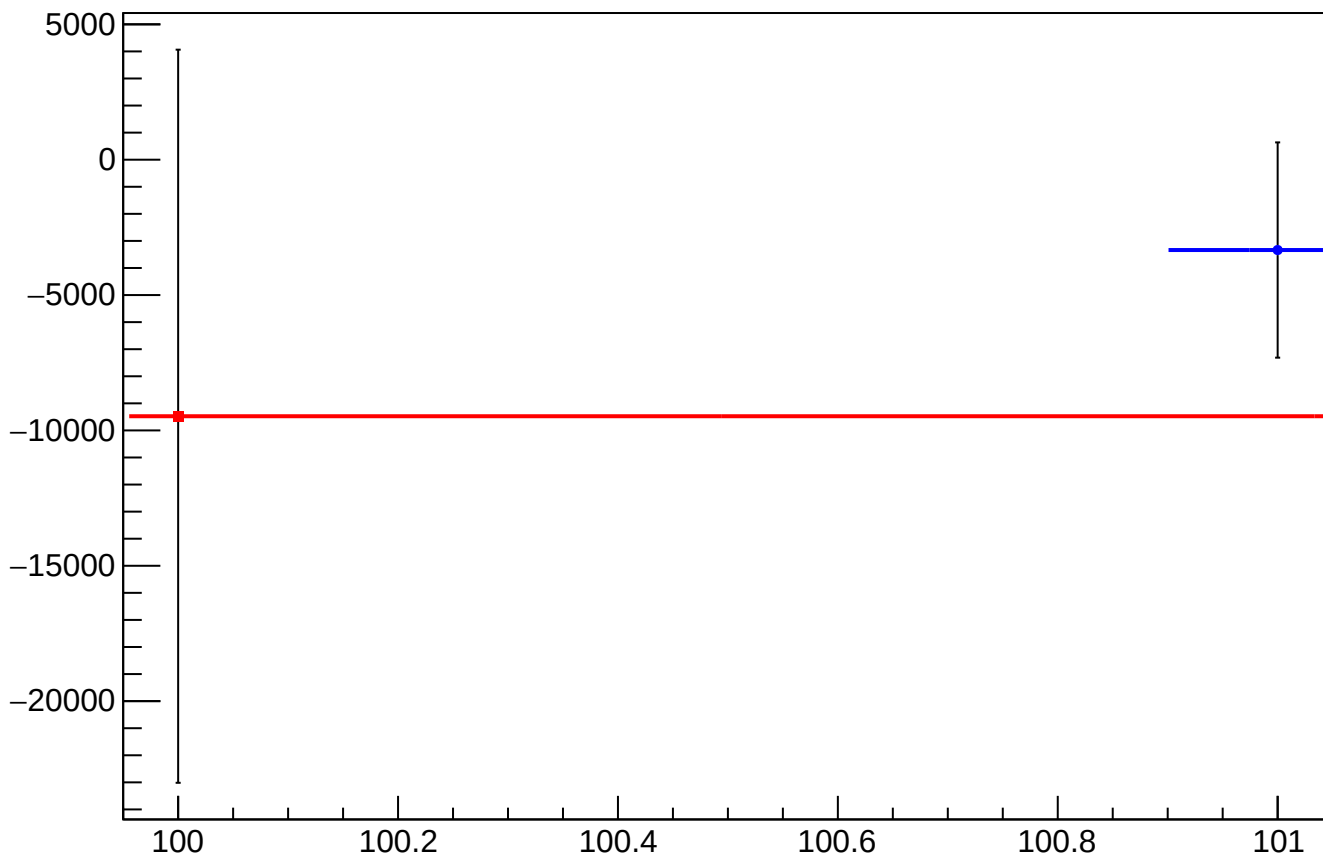
Right: 4074.206+/-3.376  $\chi^2/\text{NDF}$ : 184.6/1

In: 4090.023+/-3.571  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4074.206+/-3.376  $\chi^2/\text{NDF}$ : 184.6/1

dit\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -3336.689+/-3975.787  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9476.088+/-13540.383  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

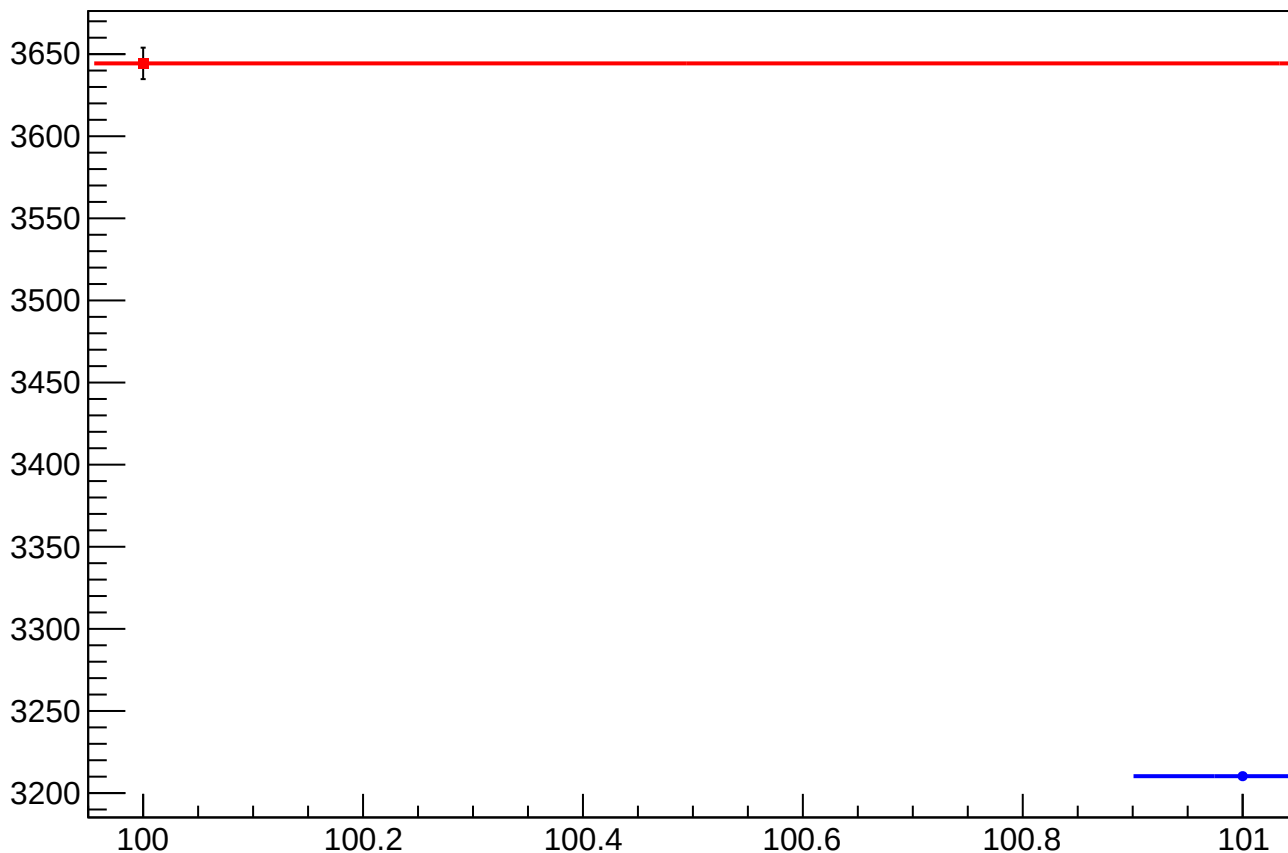
Right: -3823.987+/-3814.742  $\chi^2/\text{NDF}$ : 0.2/1

In: -3336.689+/-3975.787  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3823.987+/-3814.742  $\chi^2/\text{NDF}$ : 0.2/1

dit\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3210.290 $\pm$ 2.811  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3644.358 $\pm$ 9.574  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

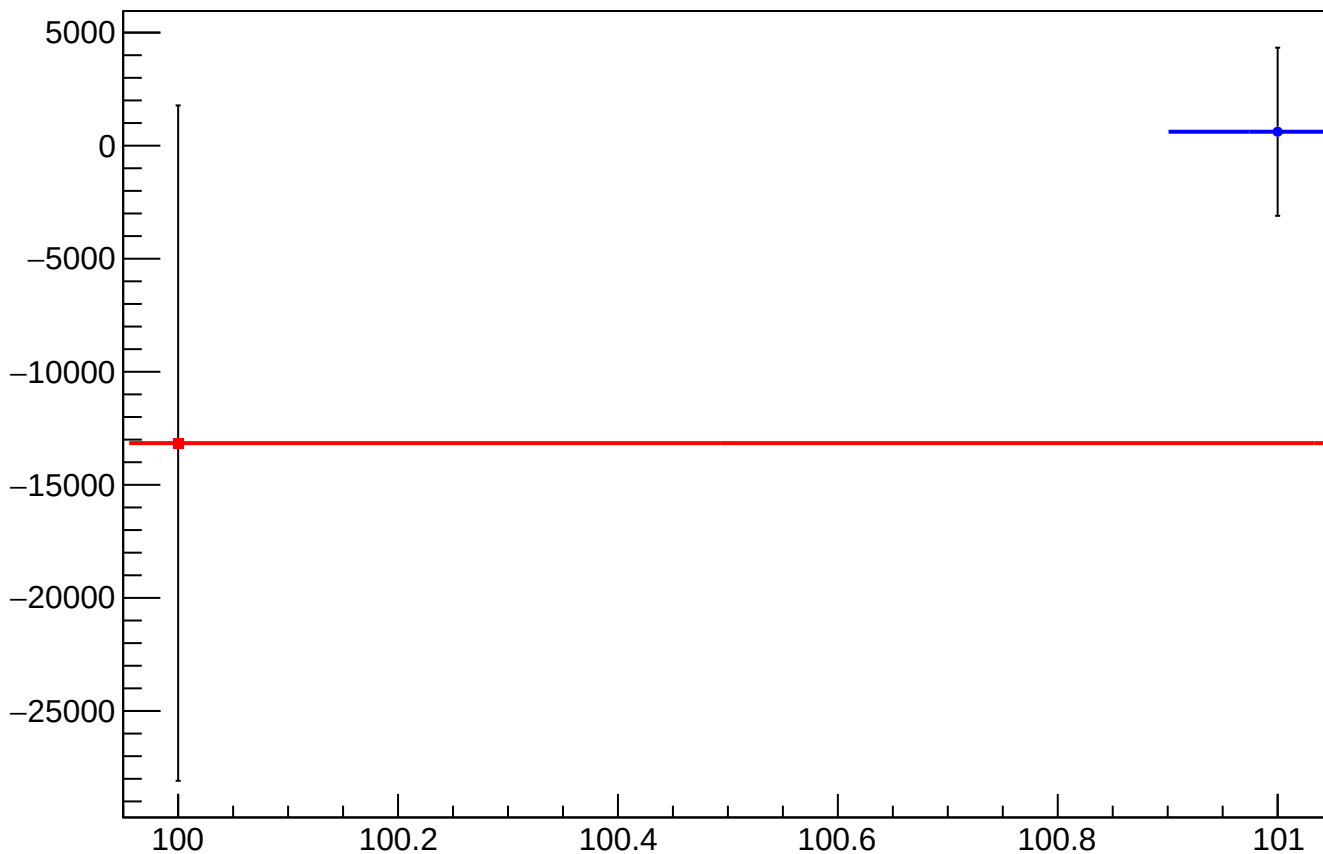
Right: 3244.743 $\pm$ 2.697  $\chi^2$ /NDF: 1892.2/1

In: 3210.290 $\pm$ 2.811  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3244.743 $\pm$ 2.697  $\chi^2$ /NDF: 1892.2/1

asym\_us\_avg\_atlr\_avg\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 615.628+/-3717.578  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13154.368+/-14933.984  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

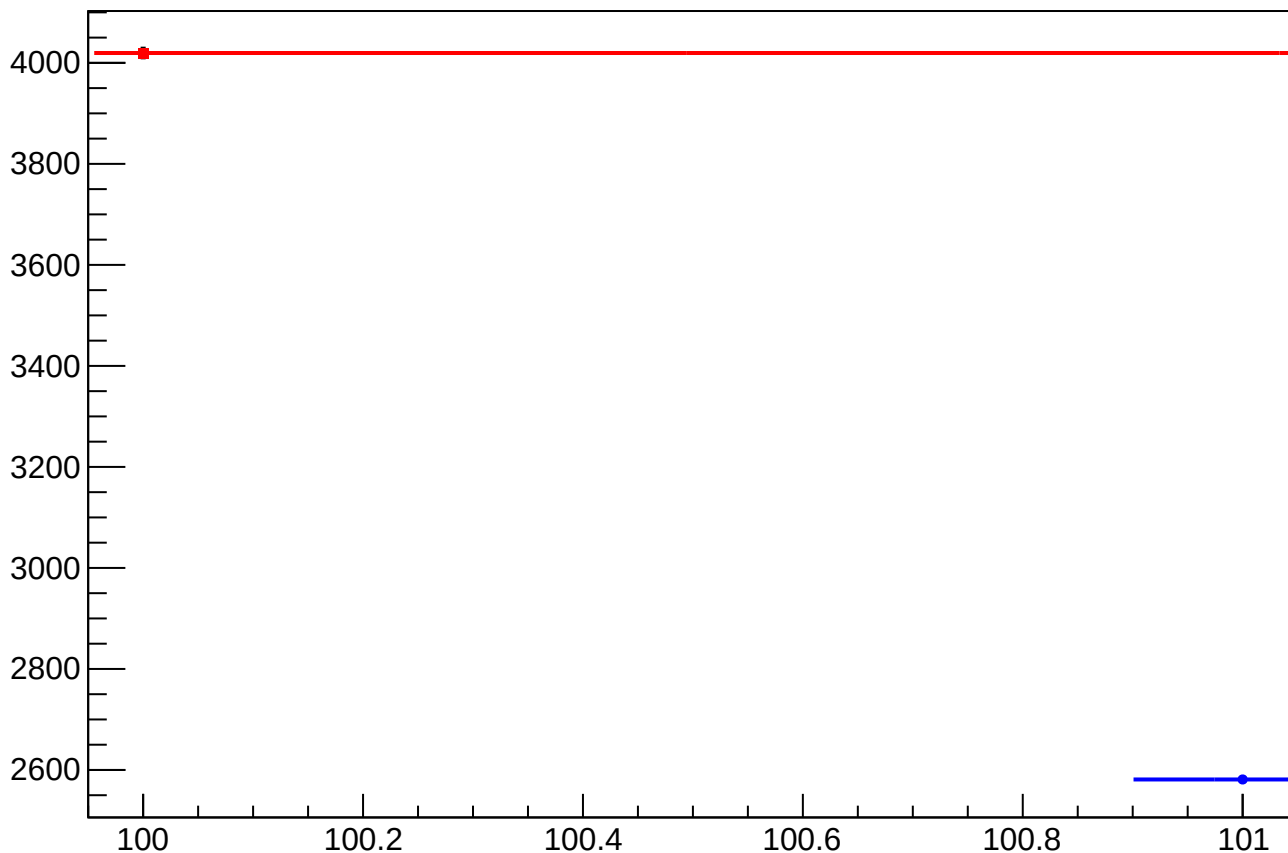
Right: -187.882+/-3607.484  $\chi^2/\text{NDF}$ : 0.8/1

In: 615.628+/-3717.578  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -187.882+/-3607.484  $\chi^2/\text{NDF}$ : 0.8/1

asym\_us\_avg\_atlr\_avg\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2581.179+/-2.629  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4019.509+/-10.560  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 2665.109+/-2.551  $\chi^2/\text{NDF}$ : 17469.6/1

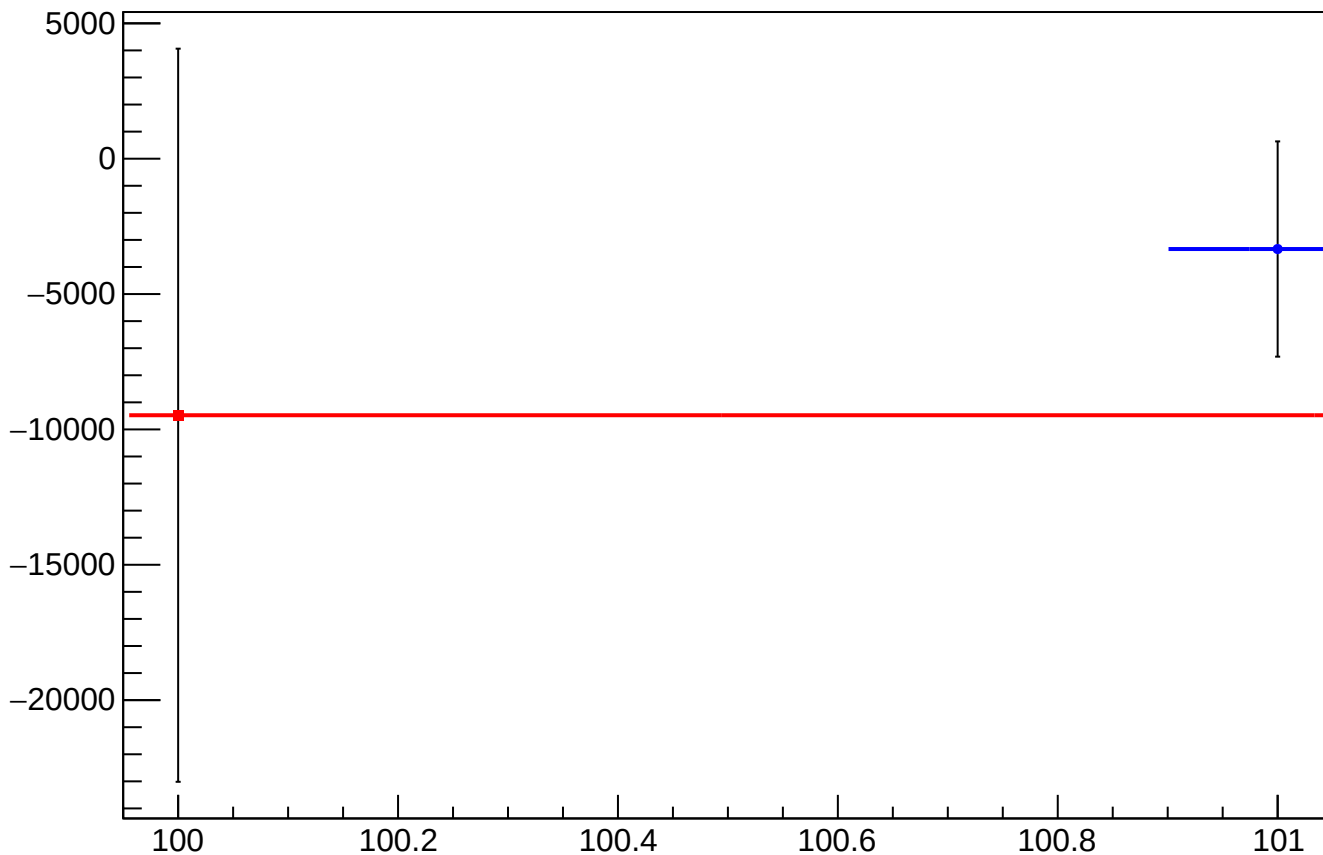
In: 2581.179+/-2.629  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2665.109+/-2.551  $\chi^2/\text{NDF}$ : 17469.6/1



eigen\_dit\_asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -3336.669+/-3975.787  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9476.166+/-13540.386  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

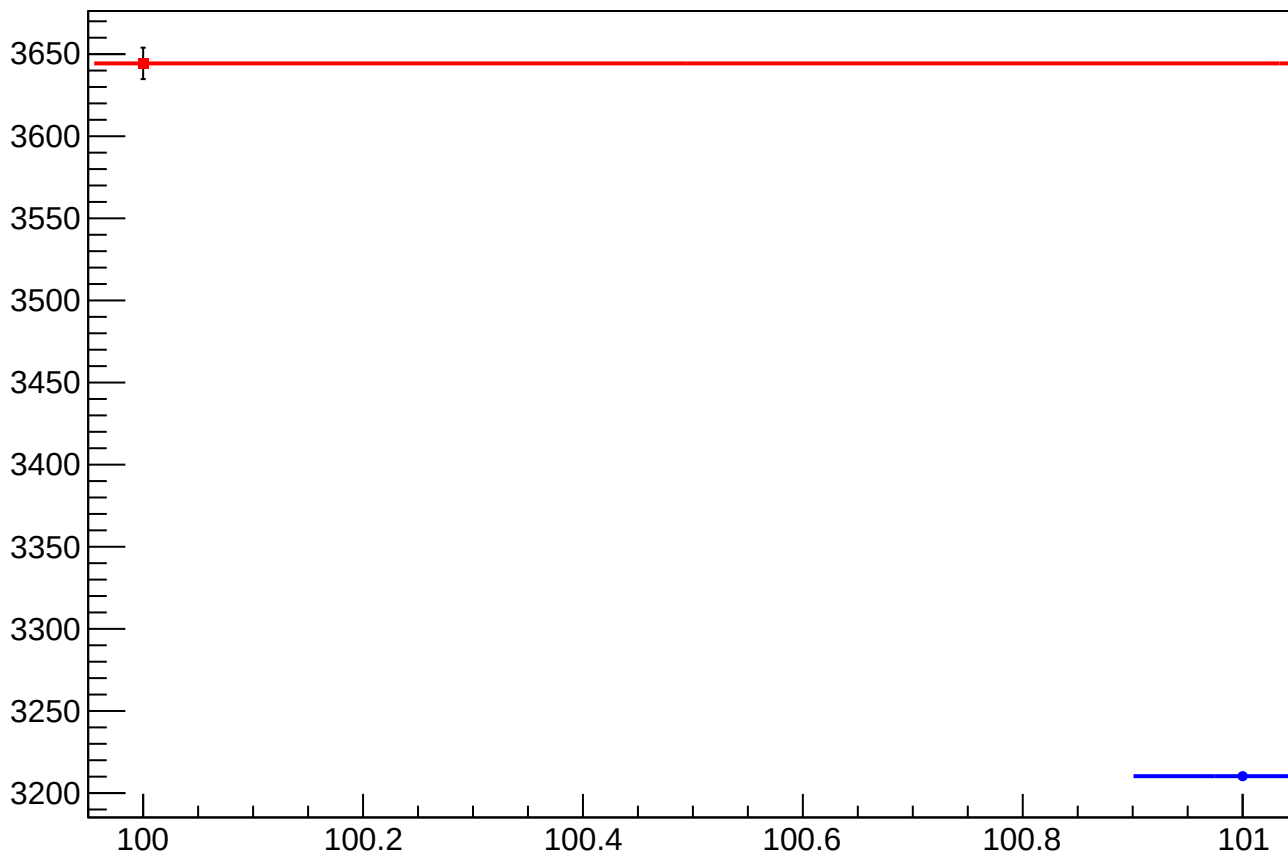
Right: -3823.974+/-3814.742  $\chi^2/\text{NDF}$ : 0.2/1

In: -3336.669+/-3975.787  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3823.974+/-3814.742  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_dit\_asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 3210.290+/-2.811  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3644.359+/-9.574  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

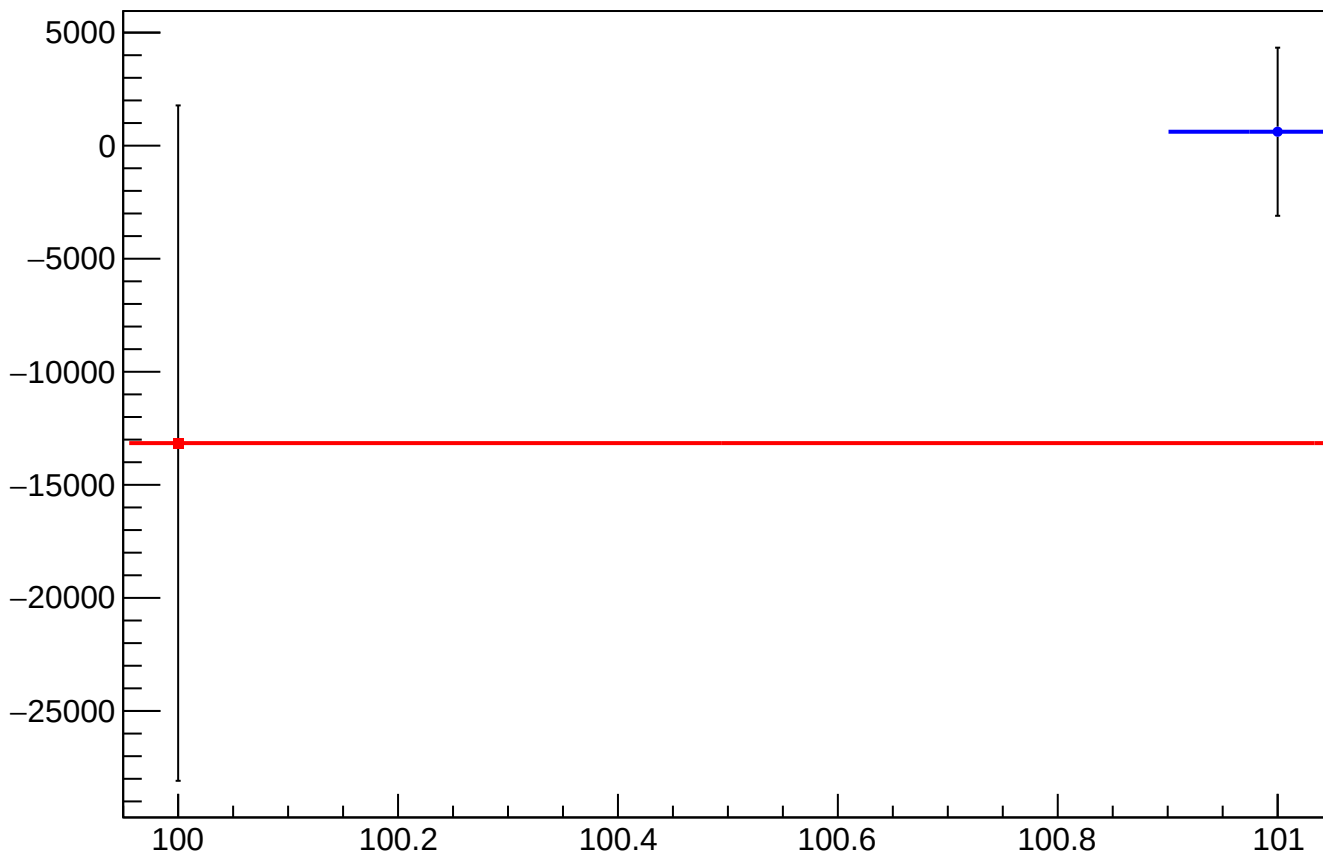
Right: 3244.743+/-2.697  $\chi^2/\text{NDF}$ : 1892.2/1

In: 3210.290+/-2.811  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3244.743+/-2.697  $\chi^2/\text{NDF}$ : 1892.2/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 615.636+/-3717.575  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13154.444+/-14933.961  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

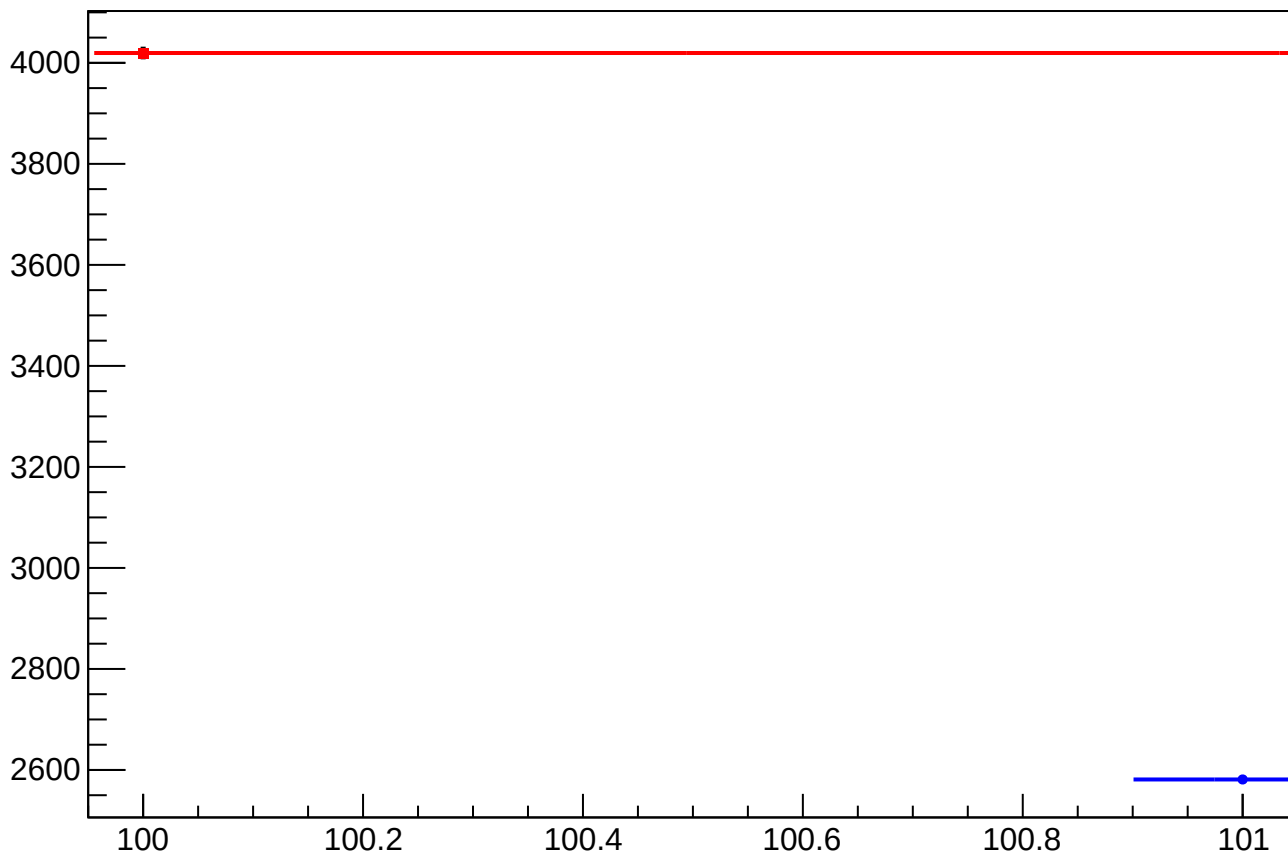
Right: -187.879+/-3607.480  $\chi^2/\text{NDF}$ : 0.8/1

In: 615.636+/-3717.575  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -187.879+/-3607.480  $\chi^2/\text{NDF}$ : 0.8/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2581.177+/-2.629  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4019.502+/-10.560  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

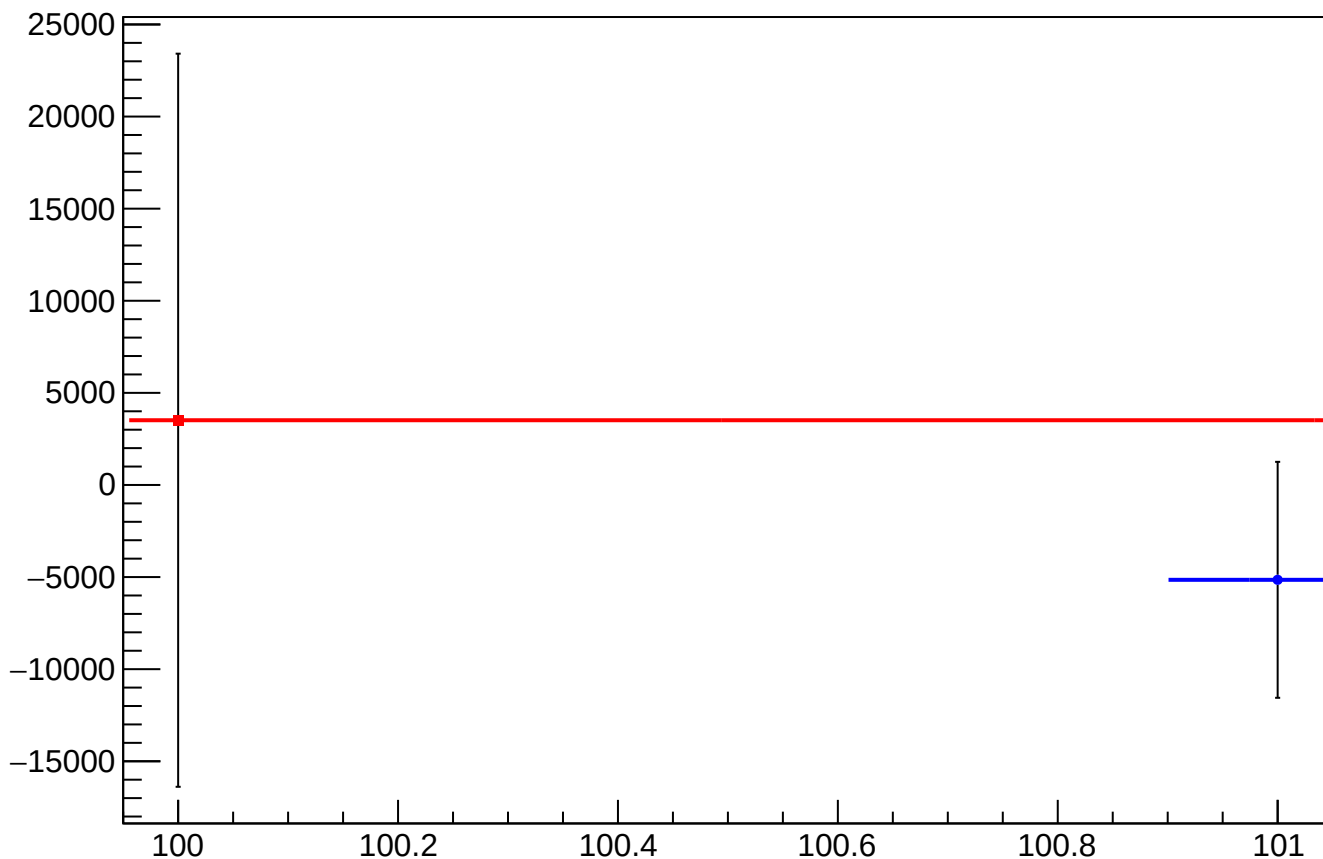
Right: 2665.107+/-2.551  $\chi^2/\text{NDF}$ : 17469.6/1

In: 2581.177+/-2.629  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2665.107+/-2.551  $\chi^2/\text{NDF}$ : 17469.6/1

asym\_us\_avg\_atlr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -5149.507+/-6404.928  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3514.118+/-19899.913  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

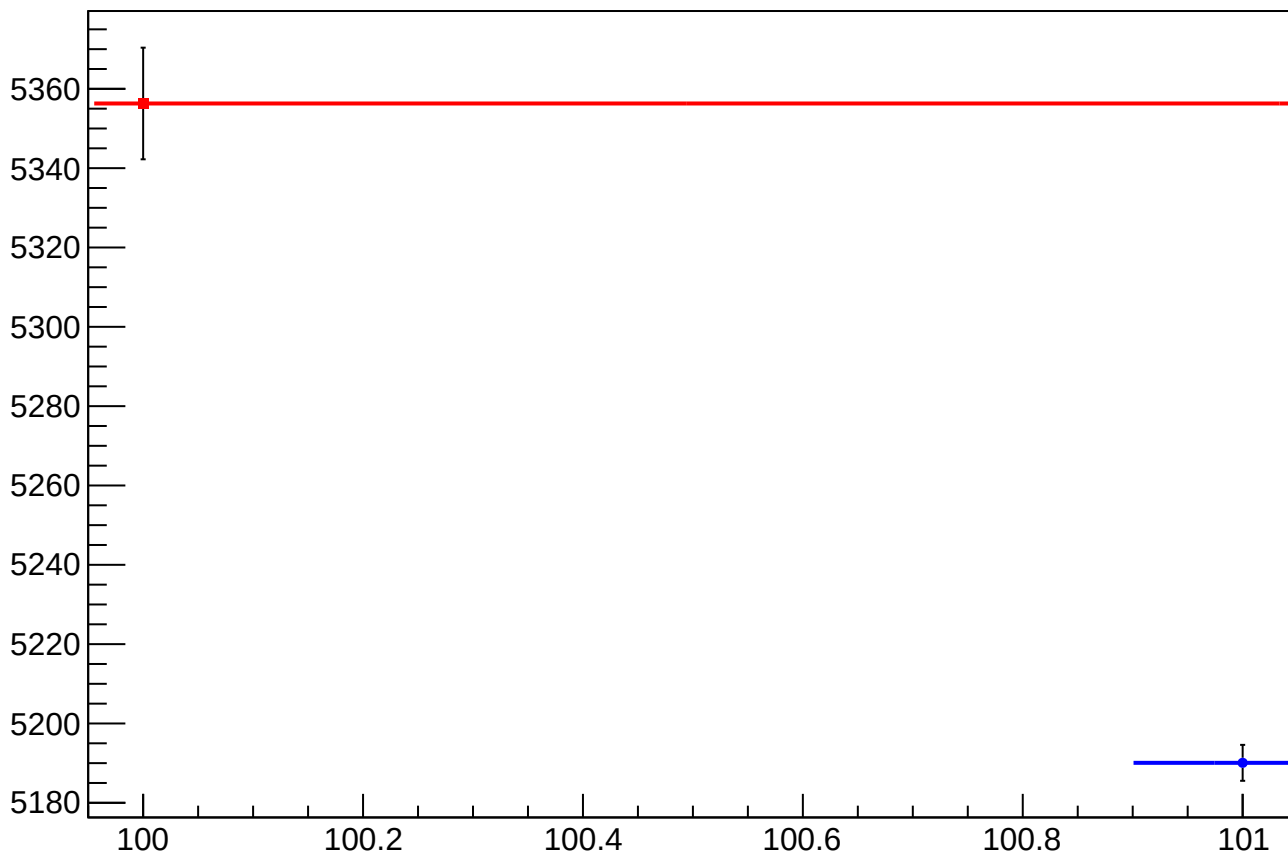
Right: -4336.270+/-6096.912  $\chi^2/\text{NDF}$ : 0.2/1

In: -5149.507+/-6404.928  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4336.270+/-6096.912  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_avg\_atlr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 5190.077 $\pm$ 4.529  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5356.306 $\pm$ 14.071  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

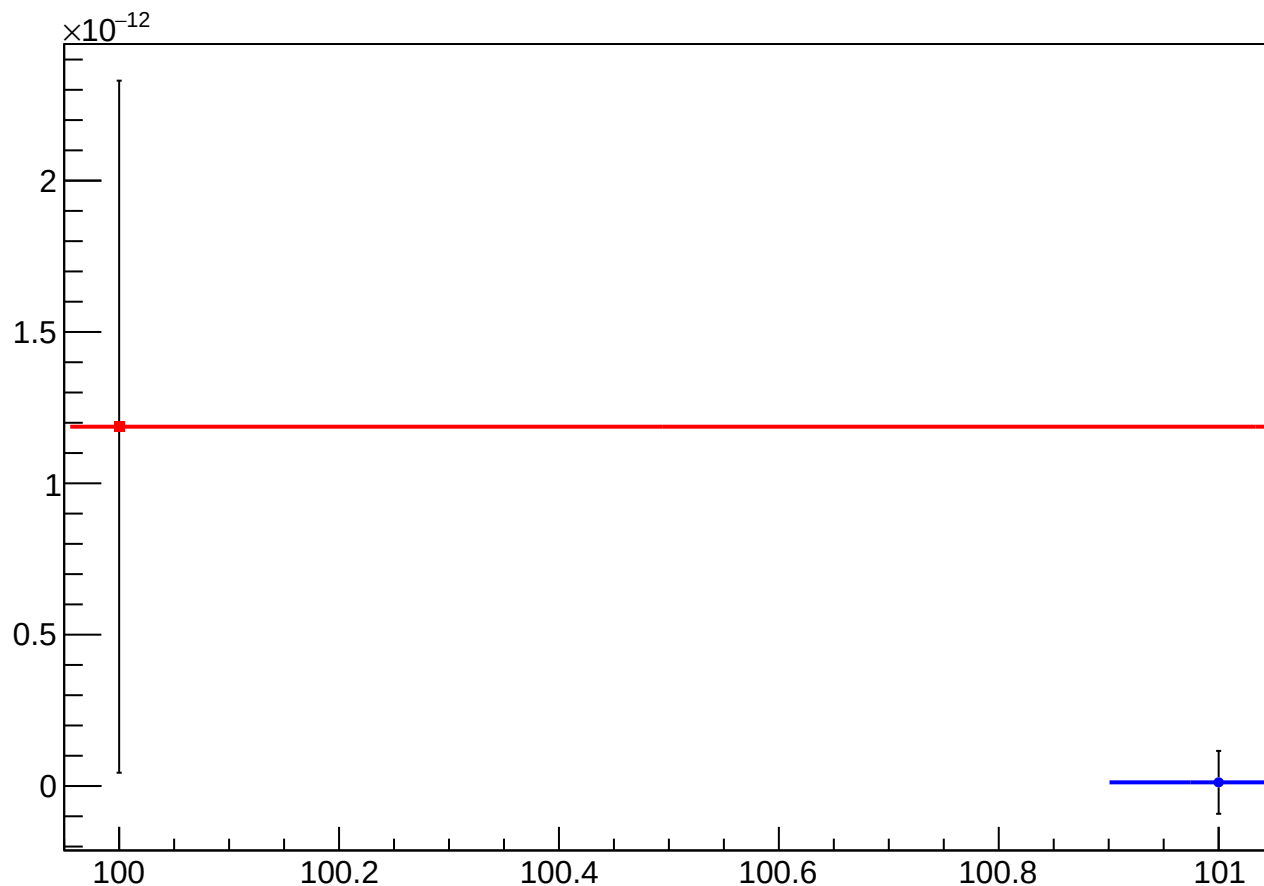
Right: 5205.681 $\pm$ 4.311  $\chi^2/\text{NDF}$ : 126.5/1

In: 5190.077 $\pm$ 4.529  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5205.681 $\pm$ 4.311  $\chi^2/\text{NDF}$ : 126.5/1

asym\_us\_avg\_atlr\_avg\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

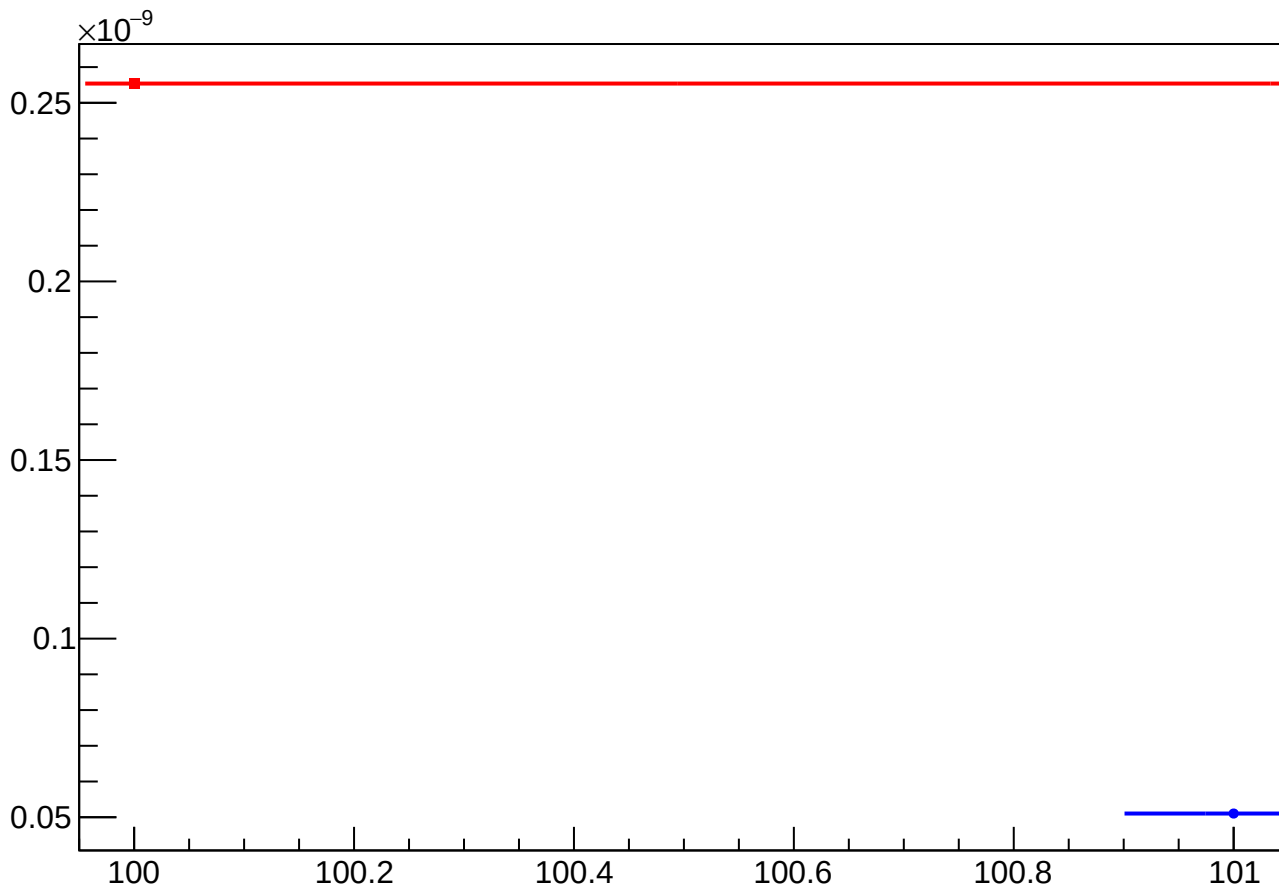
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

asym\_us\_avg\_atlr\_avg\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 63393.5/1

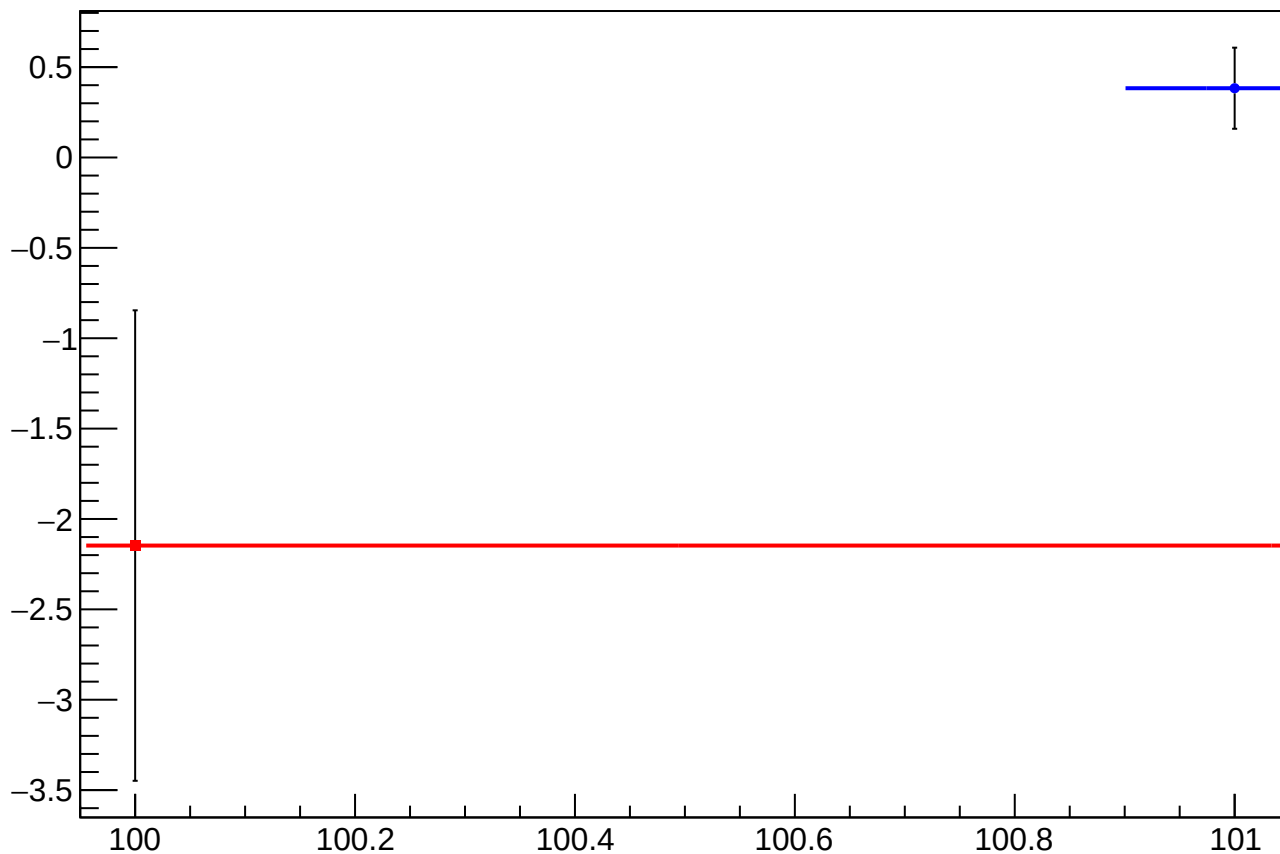
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 63393.5/1



asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.383 $\pm$ 0.224  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.147 $\pm$ 1.302  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

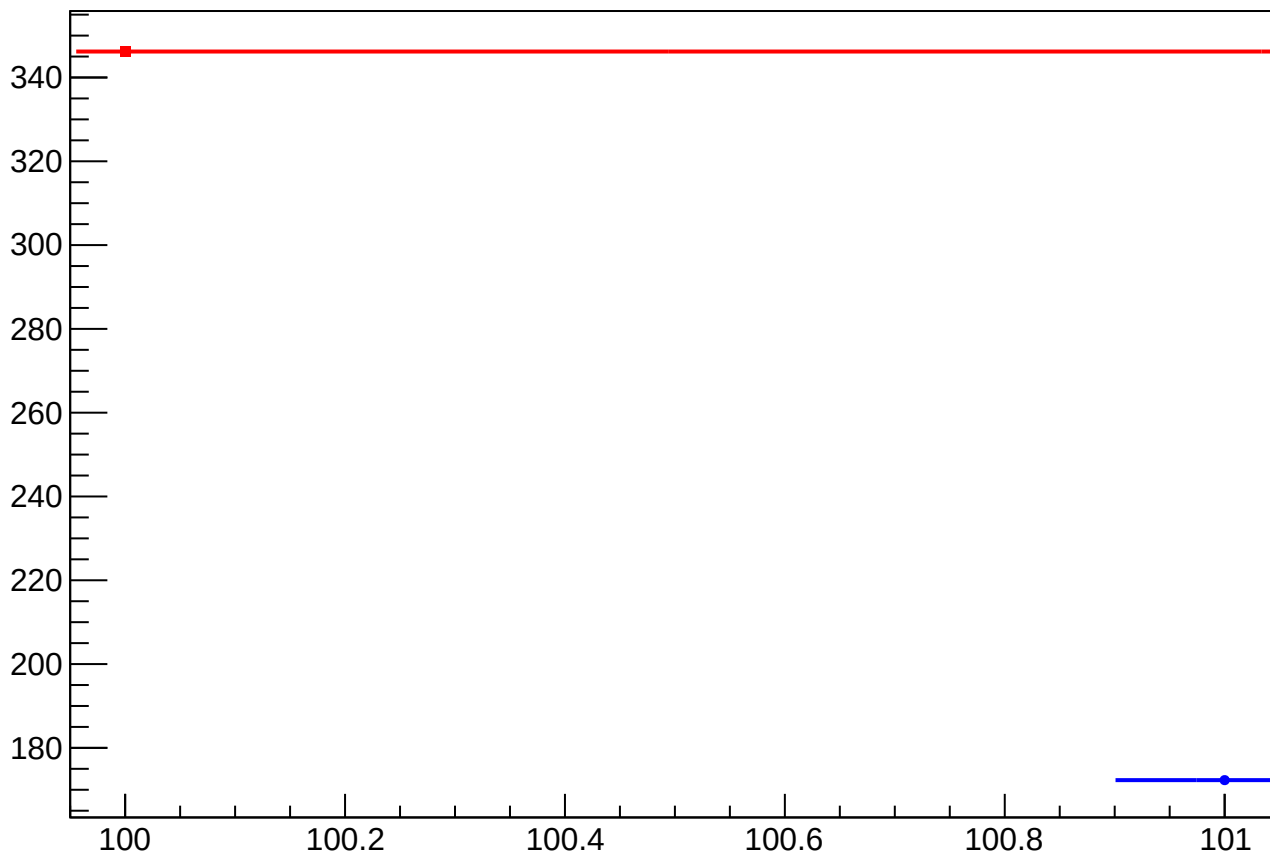
Right: 0.310 $\pm$ 0.221  $\chi^2/\text{NDF}$ : 3.7/1

In: 0.383 $\pm$ 0.224  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.310 $\pm$ 0.221  $\chi^2/\text{NDF}$ : 3.7/1

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 172.300+/-0.159  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 346.198+/-0.920  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

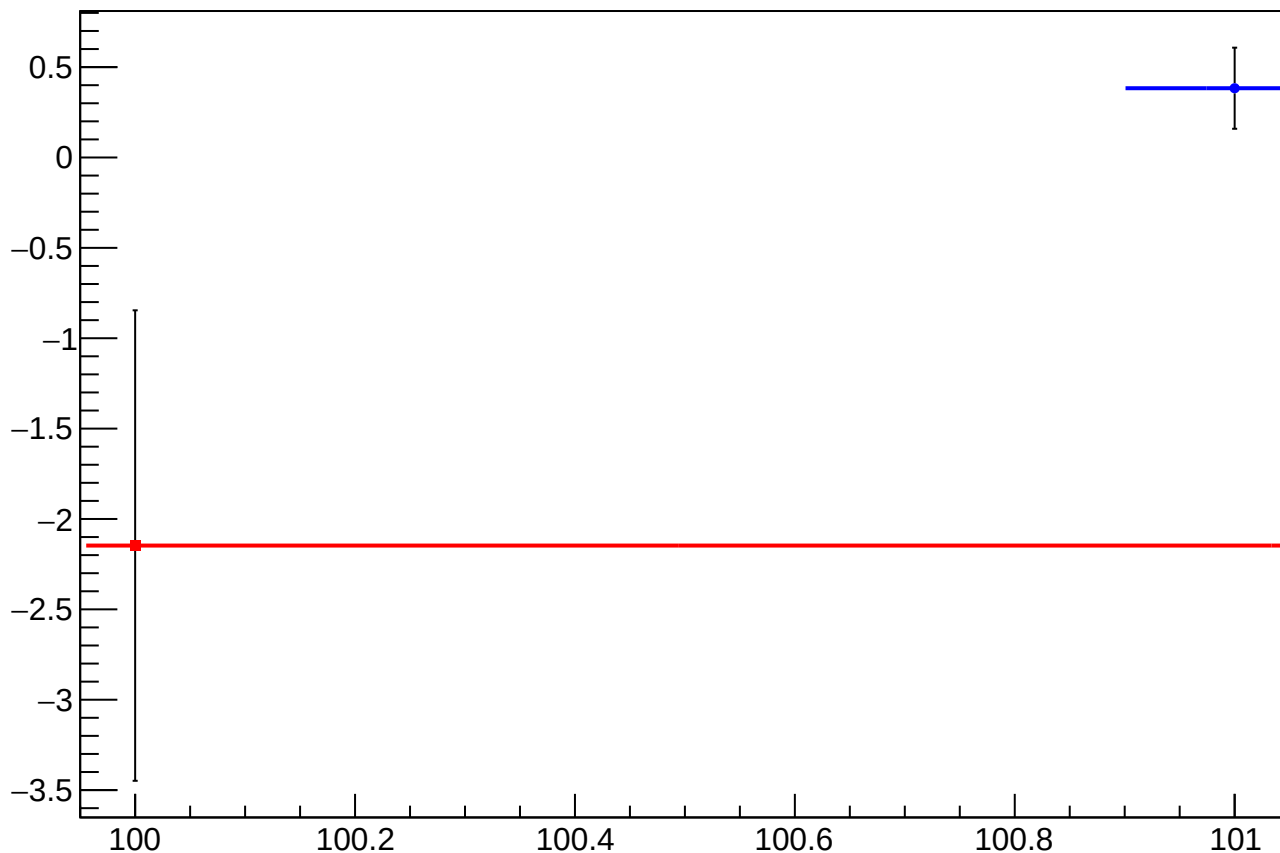
Right: 177.318+/-0.156  $\chi^2/\text{NDF}$ : 34673.7/1

In: 172.300+/-0.159  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 177.318+/-0.156  $\chi^2/\text{NDF}$ : 34673.7/1

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.383+/-0.224  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.147+/-1.302  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

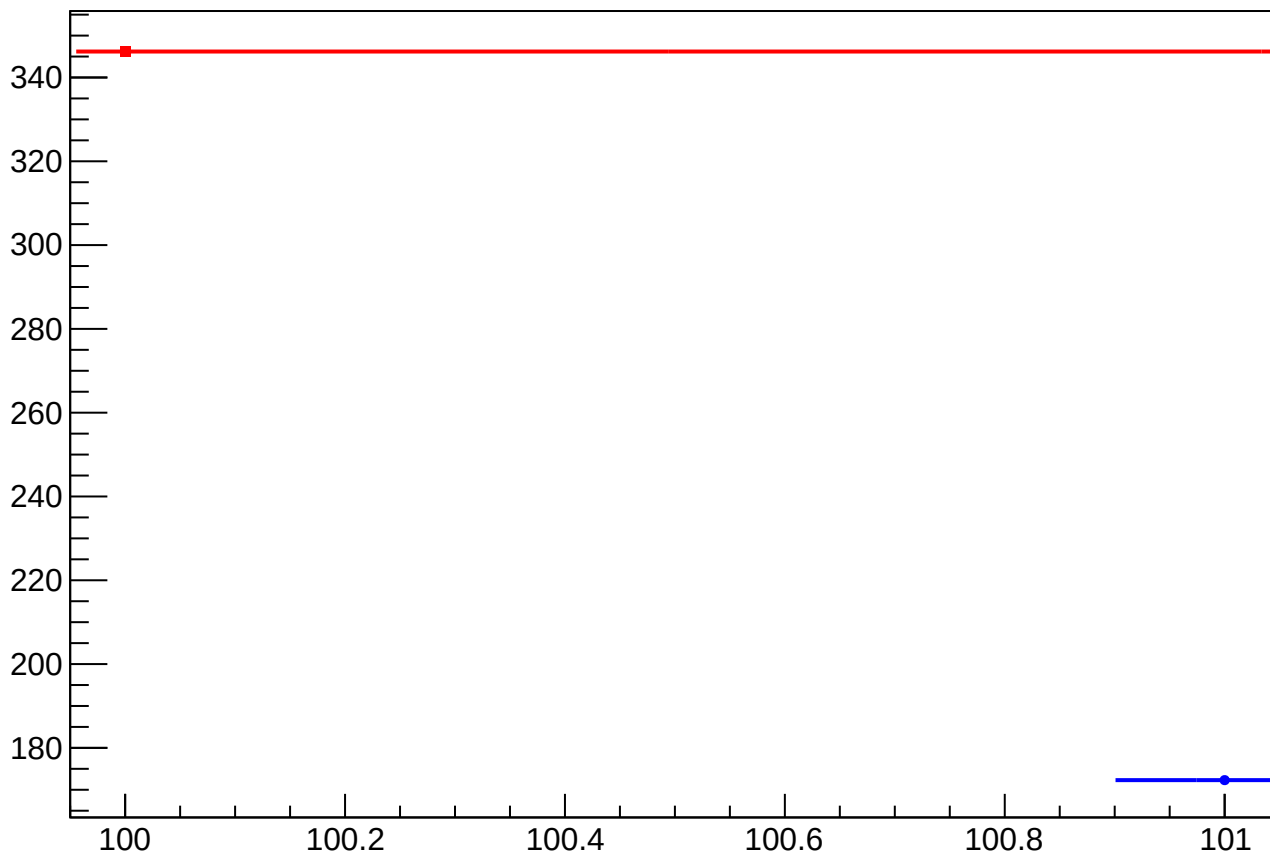
Right: 0.310+/-0.221  $\chi^2/\text{NDF}$ : 3.7/1

In: 0.383+/-0.224  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.310+/-0.221  $\chi^2/\text{NDF}$ : 3.7/1

asym\_us\_avg\_atlr\_avg\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 172.300 $\pm$ 0.159  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 346.198 $\pm$ 0.920  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

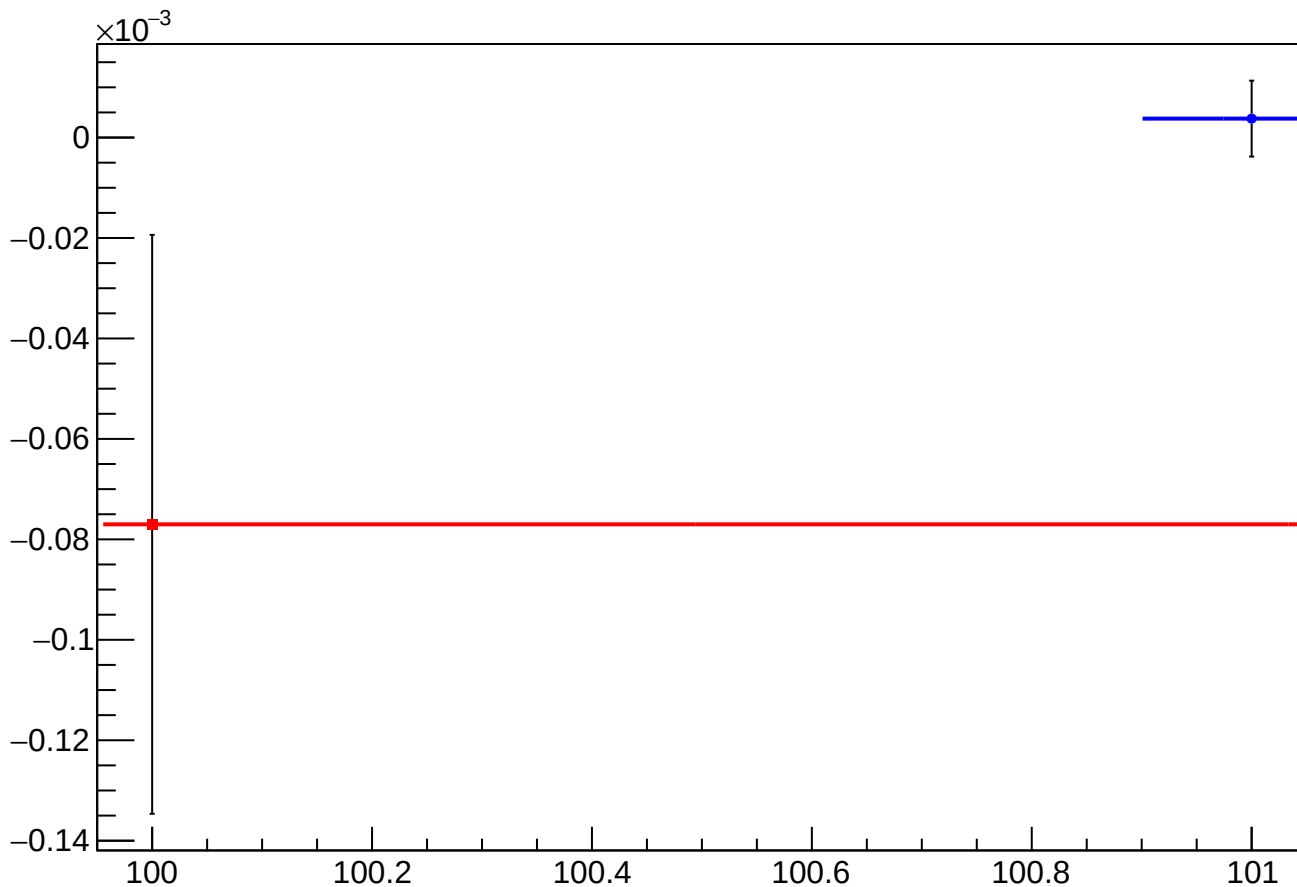
Right: 177.318 $\pm$ 0.156  $\chi^2$ /NDF: 34673.7/1

In: 172.300 $\pm$ 0.159  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 177.318 $\pm$ 0.156  $\chi^2$ /NDF: 34673.7/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

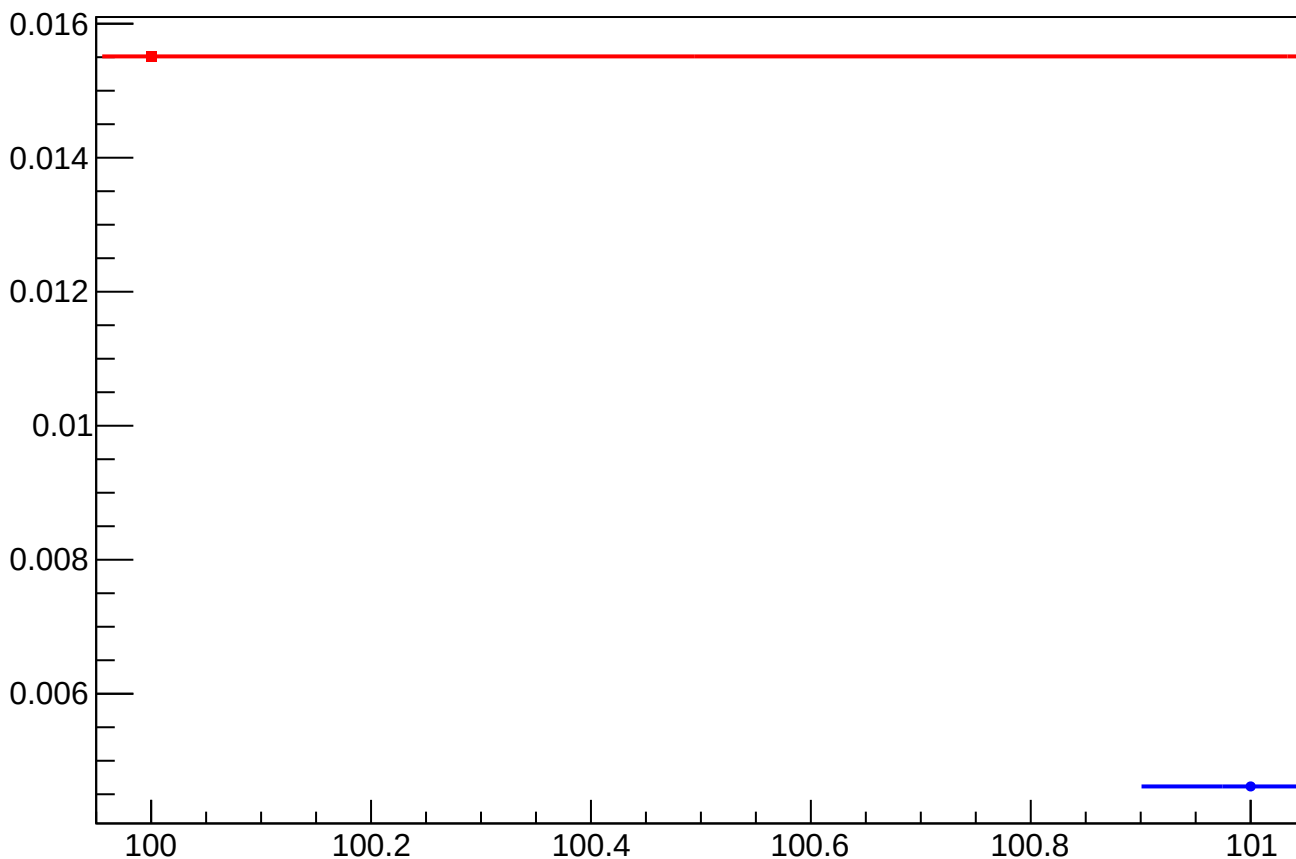
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

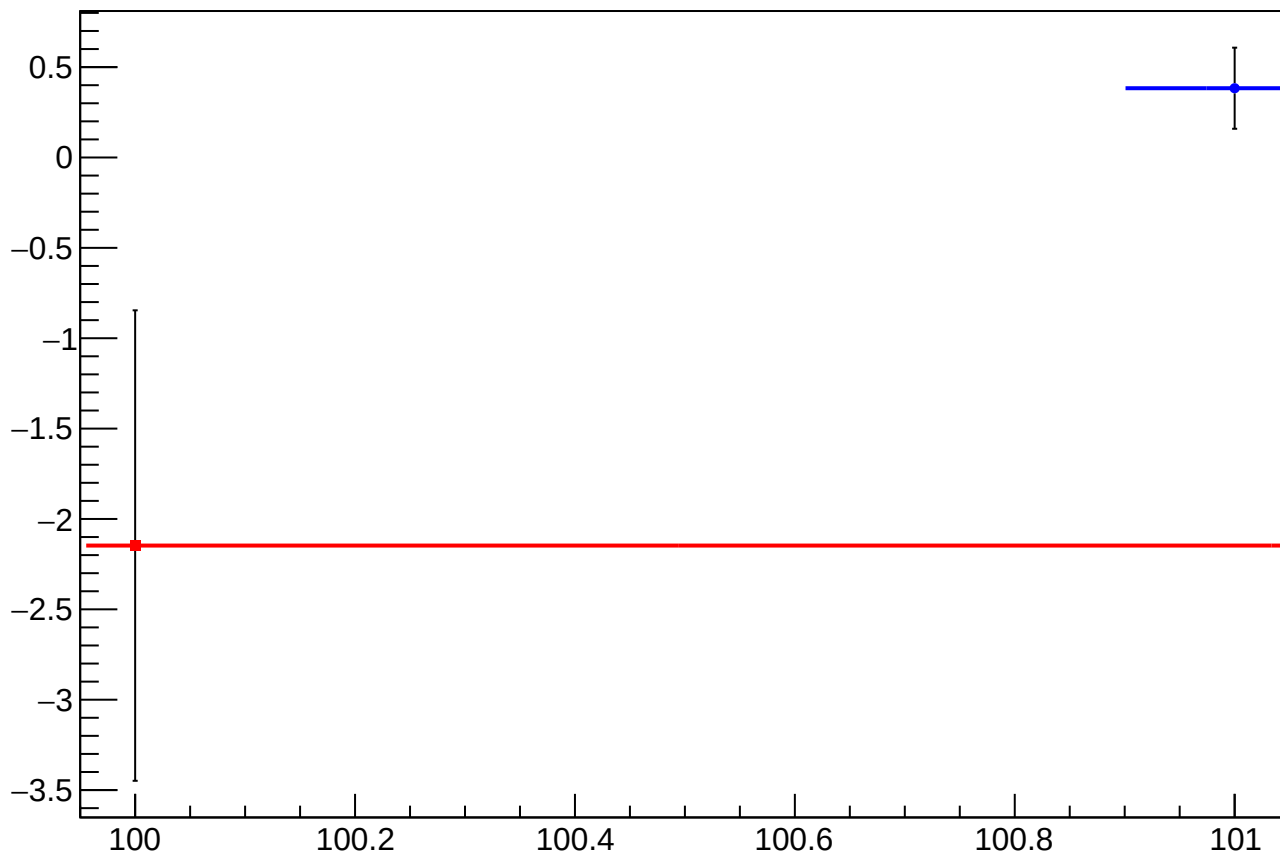
Right: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 70275.1/1

In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 70275.1/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.383+/-0.224  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.147+/-1.302  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

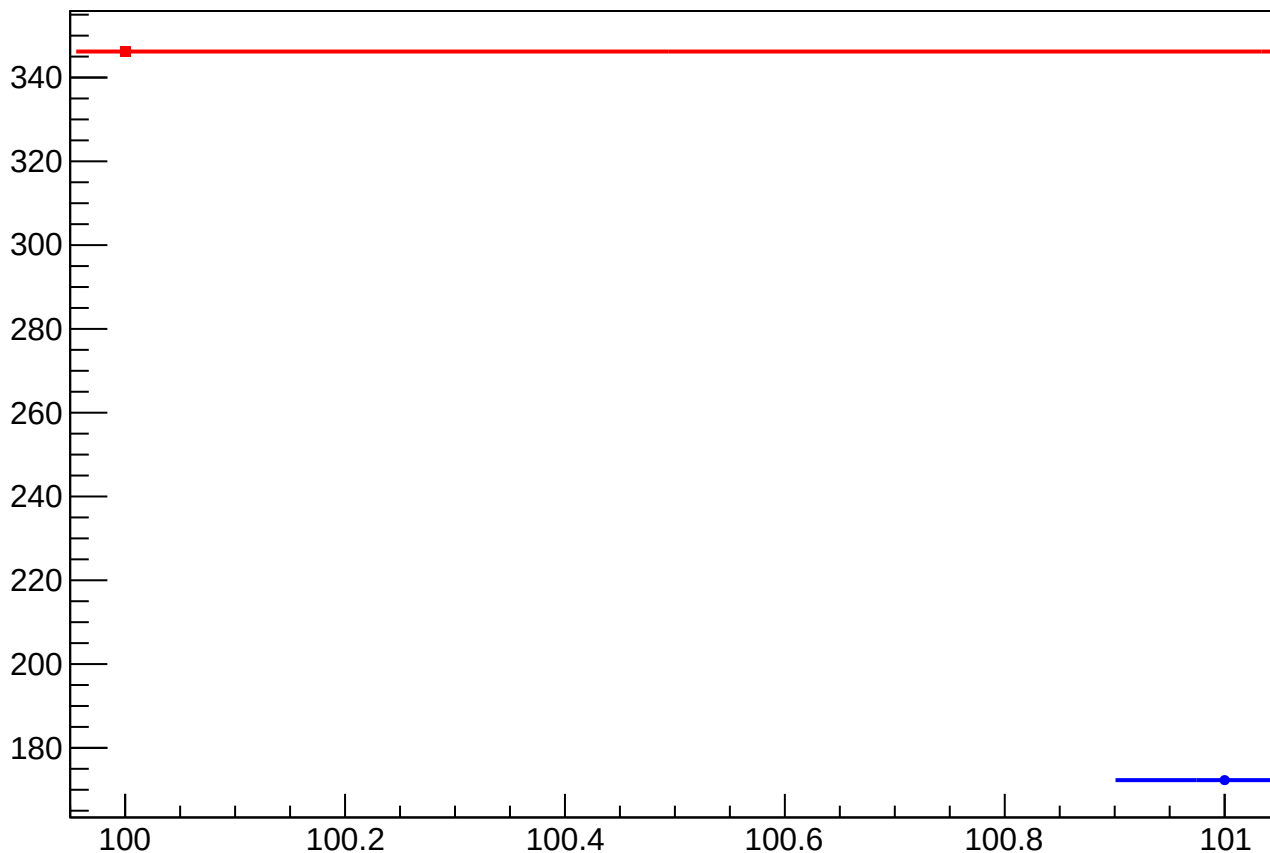
Right: 0.310+/-0.221  $\chi^2/\text{NDF}$ : 3.7/1

In: 0.383+/-0.224  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.310+/-0.221  $\chi^2/\text{NDF}$ : 3.7/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 172.298+/-0.159  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 346.207+/-0.920  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 177.317+/-0.156  $\chi^2/\text{NDF}$ : 34676.2/1

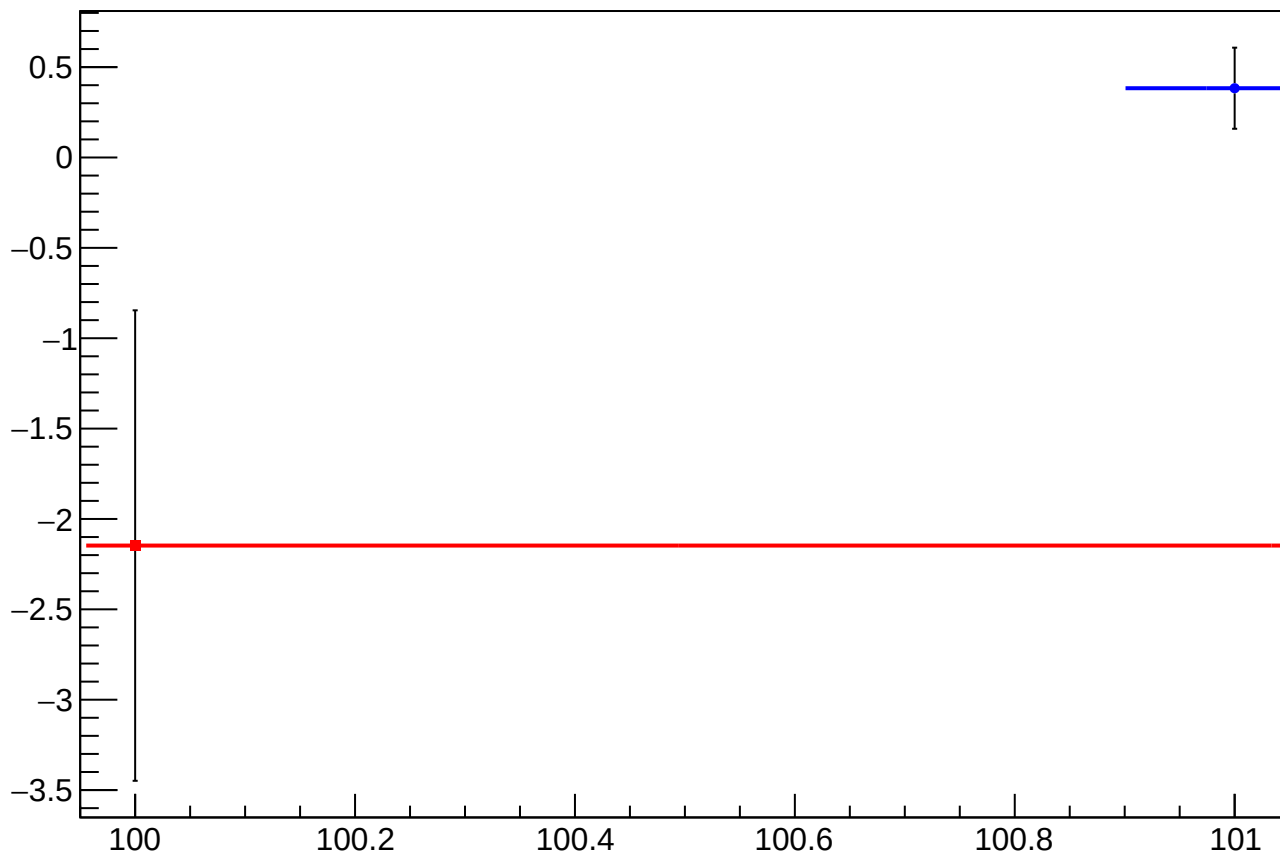
In: 172.298+/-0.159  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 177.317+/-0.156  $\chi^2/\text{NDF}$ : 34676.2/1



asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.383+/-0.224  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.147+/-1.302  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

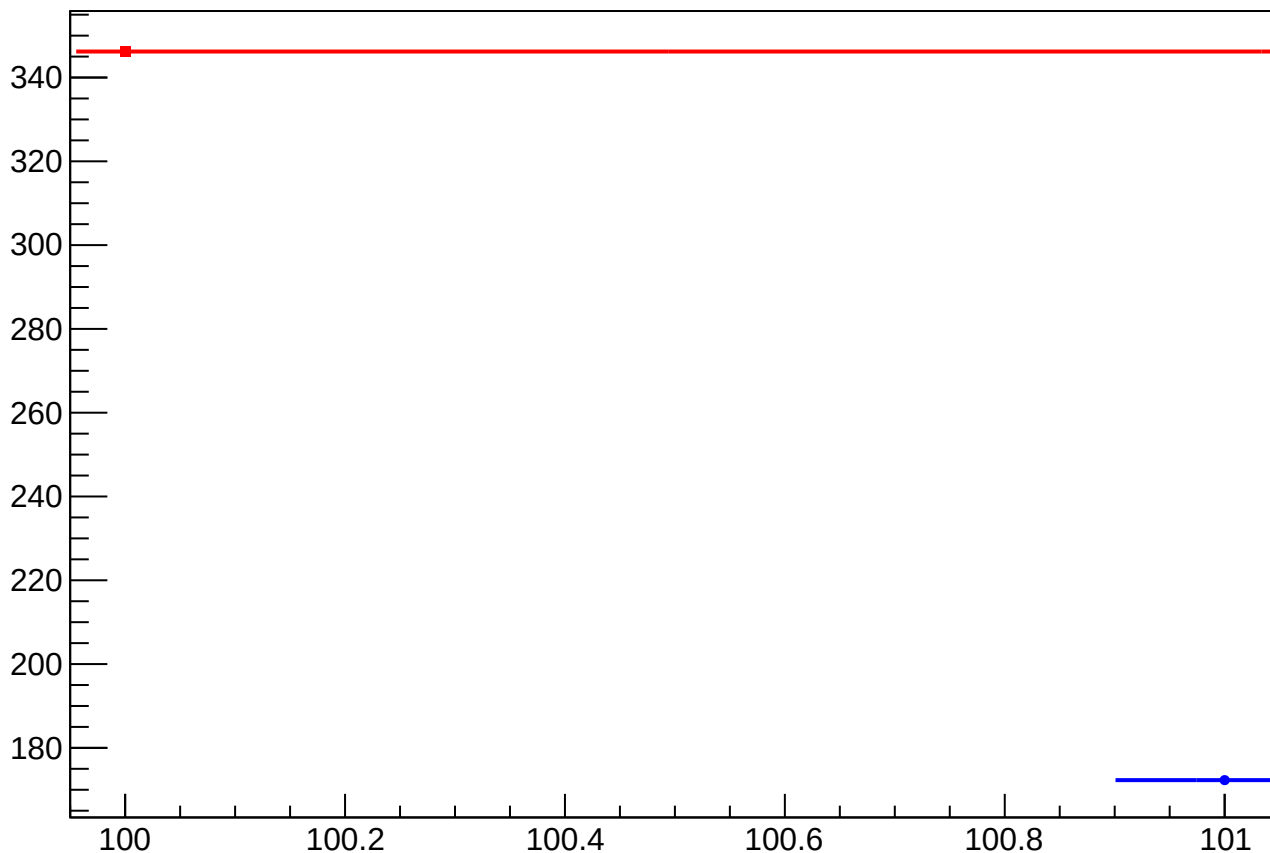
Right: 0.310+/-0.221  $\chi^2/\text{NDF}$ : 3.7/1

In: 0.383+/-0.224  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.310+/-0.221  $\chi^2/\text{NDF}$ : 3.7/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 172.298 $\pm$ 0.159  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 346.207 $\pm$ 0.920  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

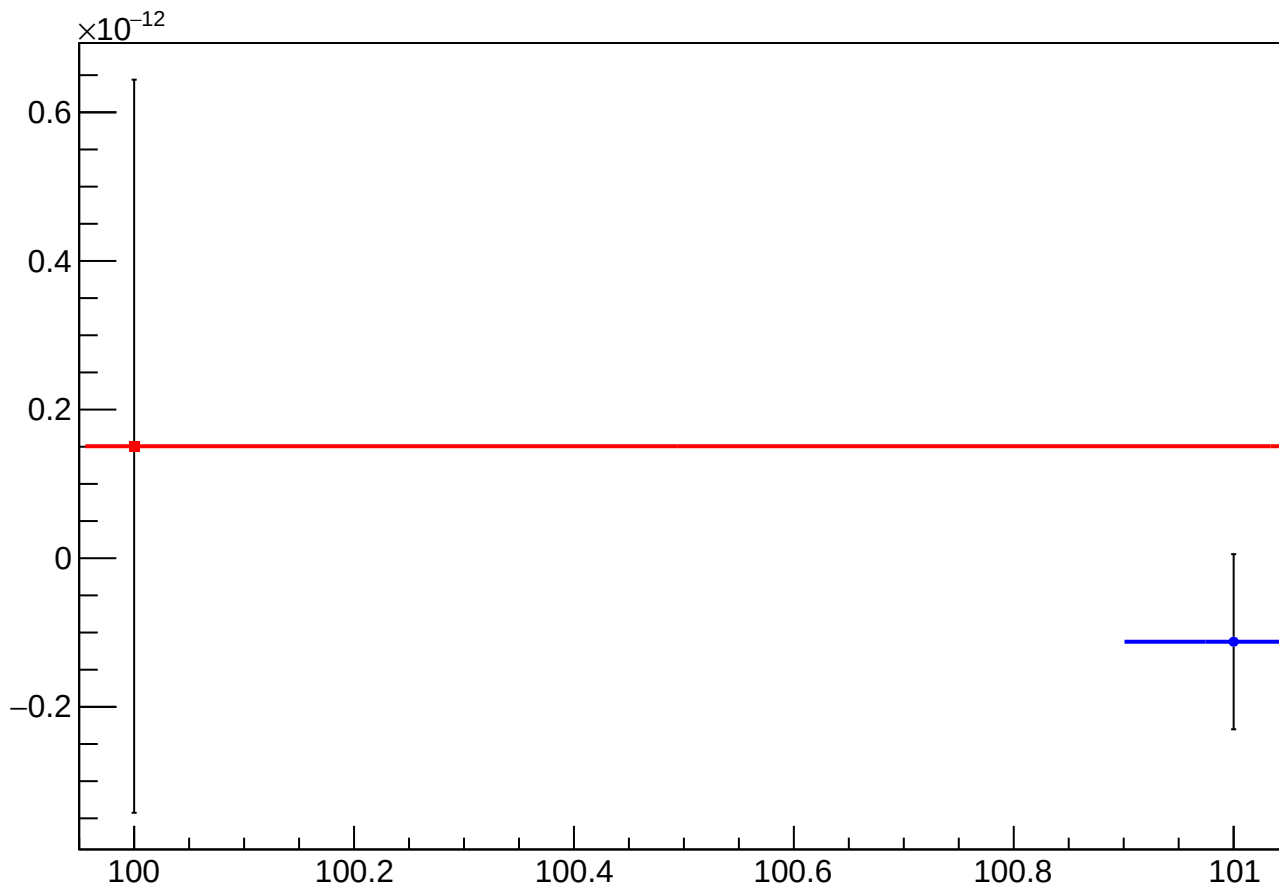
Right: 177.317 $\pm$ 0.156  $\chi^2$ /NDF: 34676.2/1

In: 172.298 $\pm$ 0.159  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 177.317 $\pm$ 0.156  $\chi^2$ /NDF: 34676.2/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

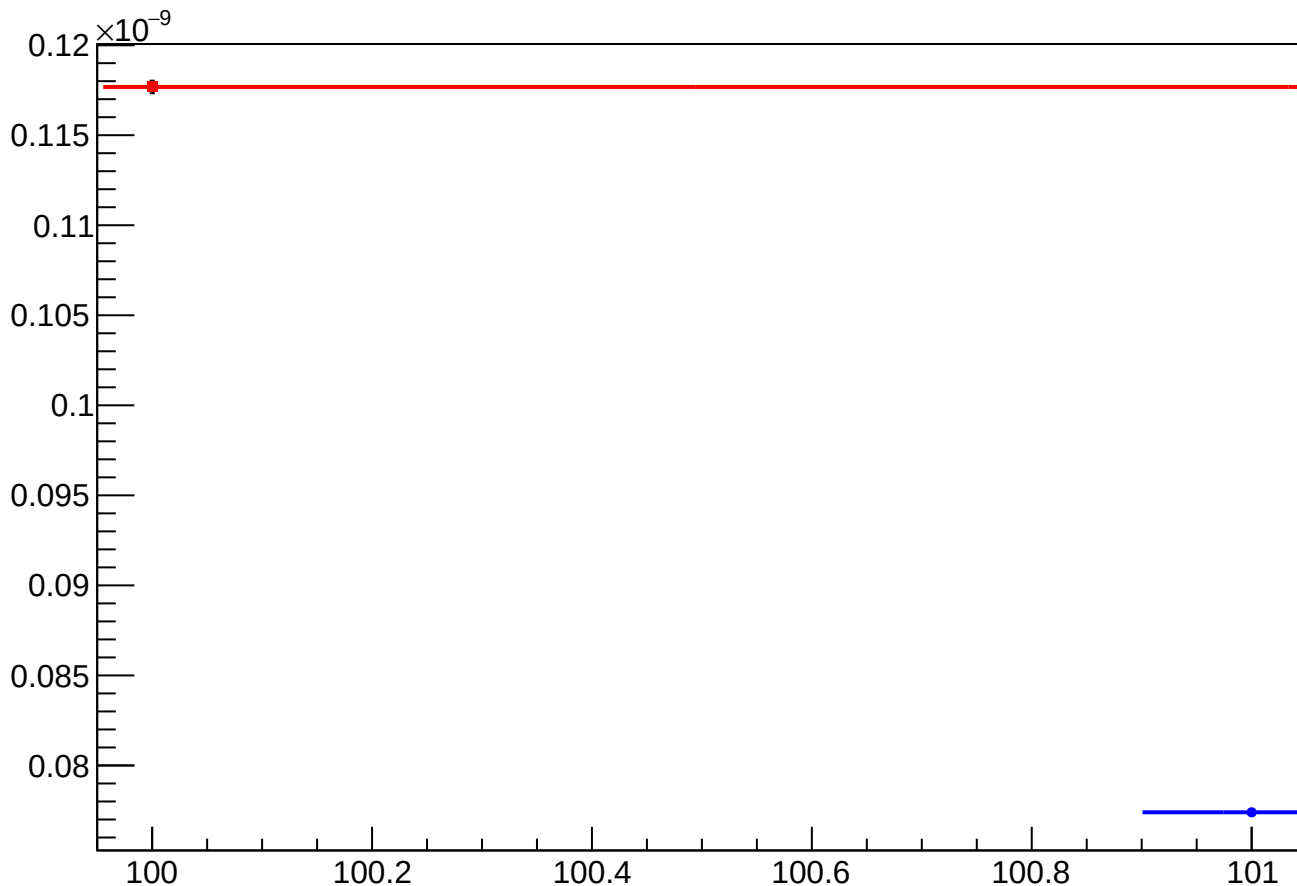
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_avg\_atlr\_avg\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

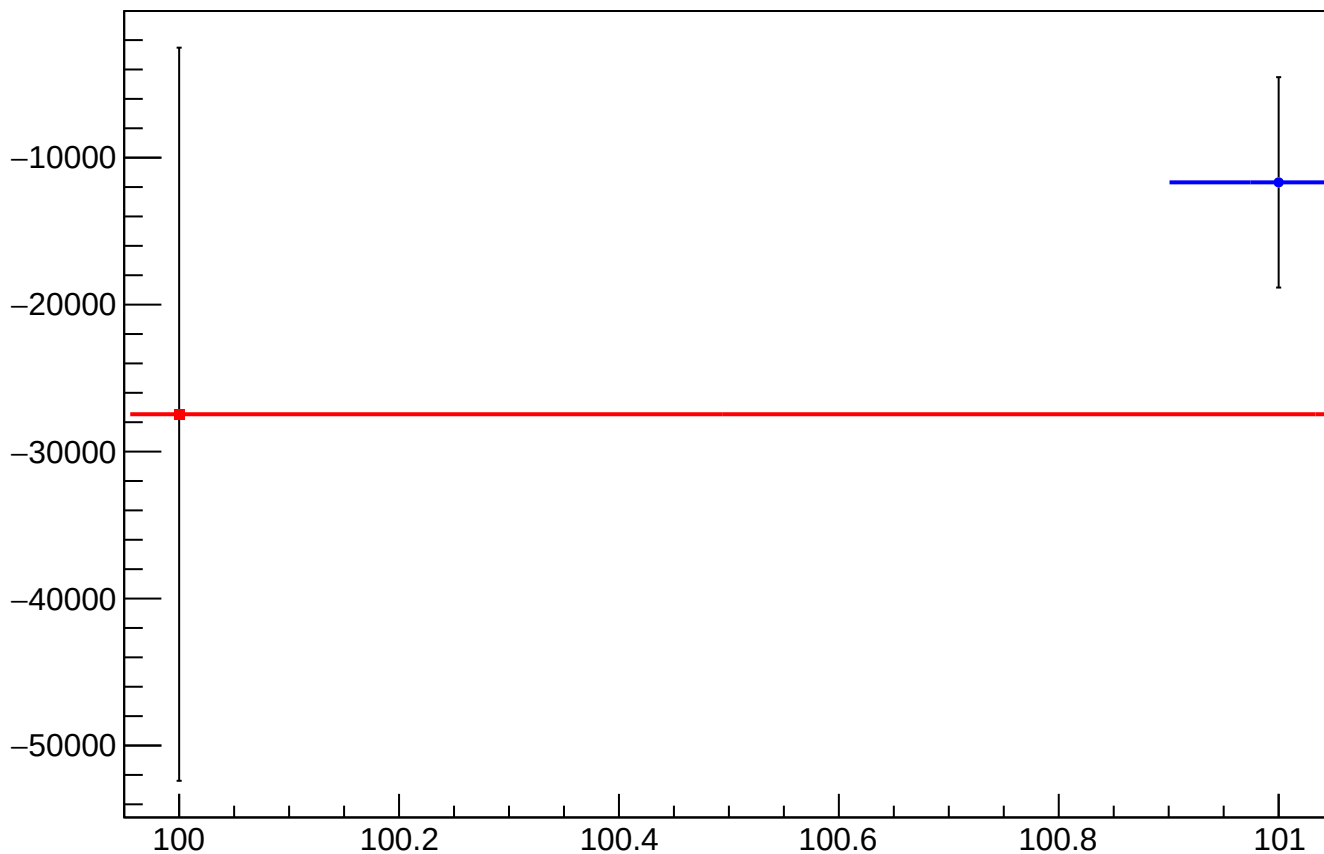
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12617.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 12617.3/1

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -11679.882+/-7157.896  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -27457.681+/-24942.202  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

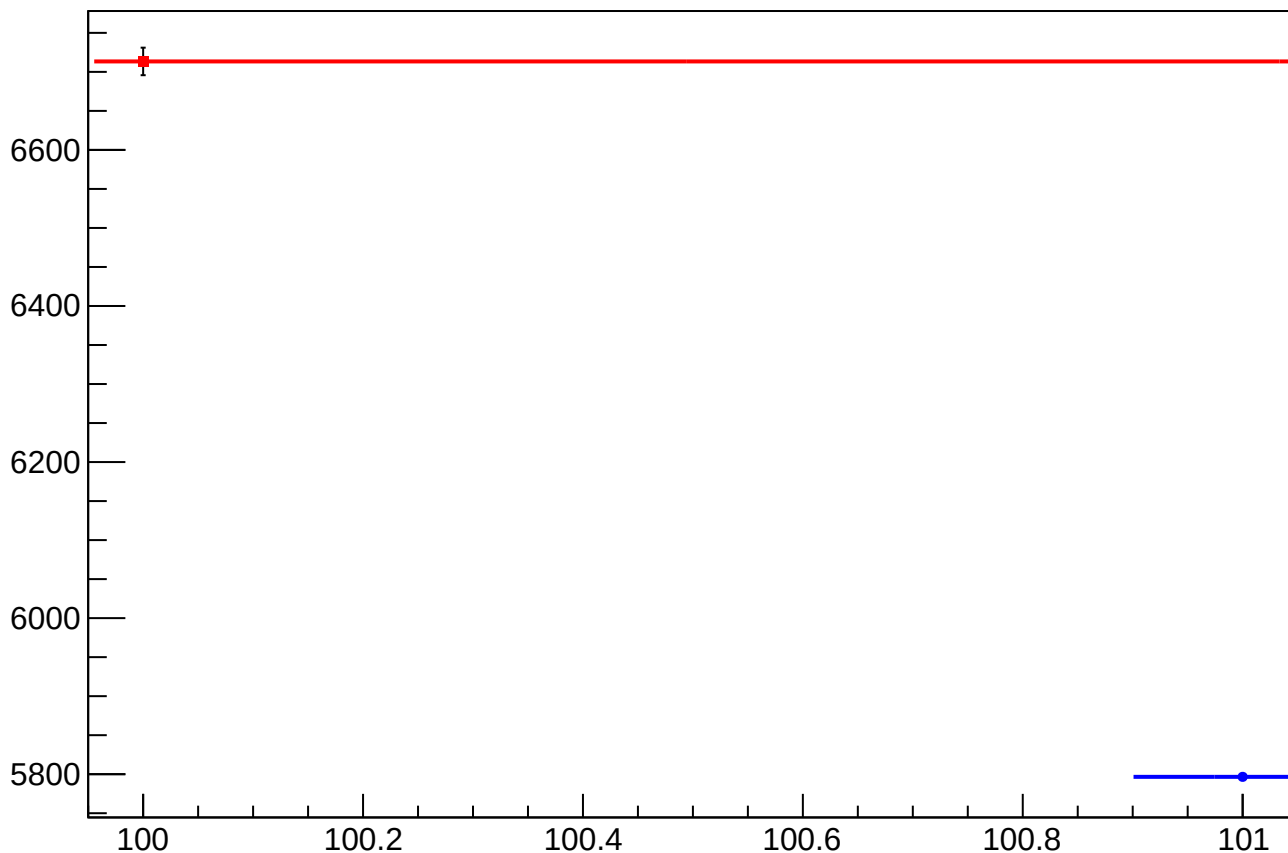
Right: -12880.424+/-6880.185  $\chi^2/\text{NDF}$ : 0.4/1

In: -11679.882+/-7157.896  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12880.424+/-6880.185  $\chi^2/\text{NDF}$ : 0.4/1

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 5796.605±/-5.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6713.388±/-17.637  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

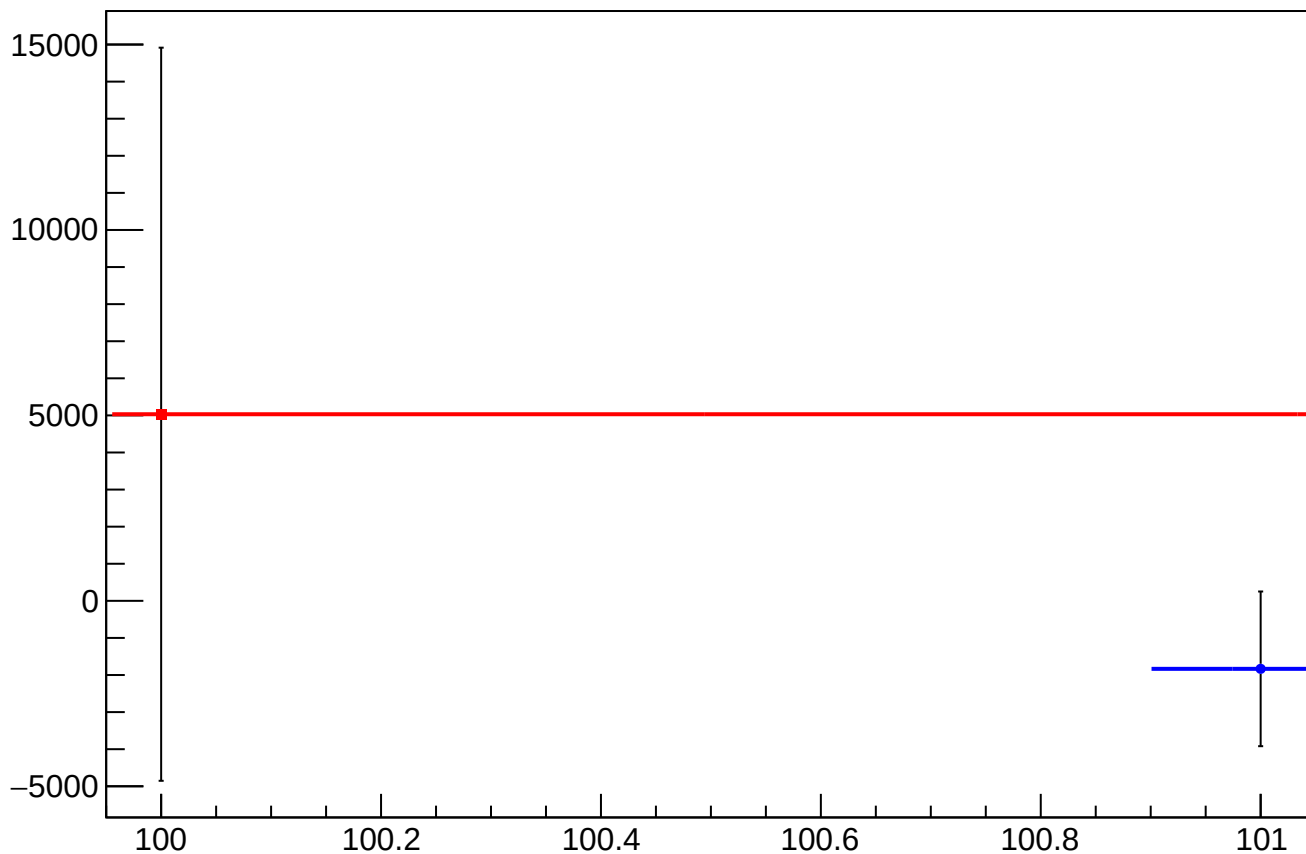
Right: 5866.363±/-4.865  $\chi^2$ /NDF: 2496.5/1

In: 5796.605±/-5.061  $\chi^2$ /NDF:0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

All: 5866.363±/-4.865  $\chi^2$ /NDF: 2496.5/1

asym\_us\_dd\_at1lr\_dd\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1833.626+/-2085.464  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5031.499+/-9883.795  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

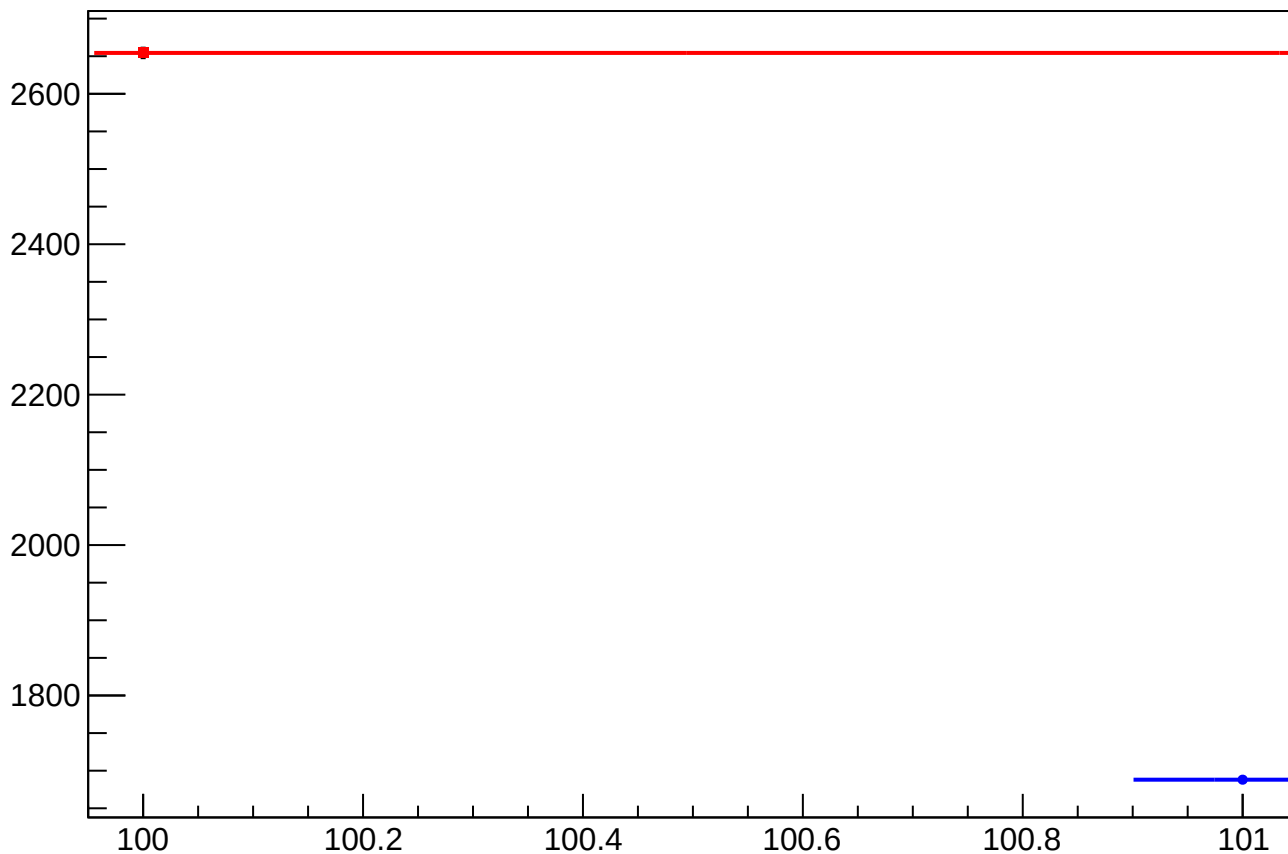
Right: -1541.015+/-2040.536  $\chi^2/\text{NDF}$ : 0.5/1

In: -1833.626+/-2085.464  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1541.015+/-2040.536  $\chi^2/\text{NDF}$ : 0.5/1

asym\_us\_dd\_at1lr\_dd\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1688.035 $\pm$ 1.475  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2654.369 $\pm$ 6.989  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1729.223 $\pm$ 1.443  $\chi^2$ /NDF: 18302.9/1

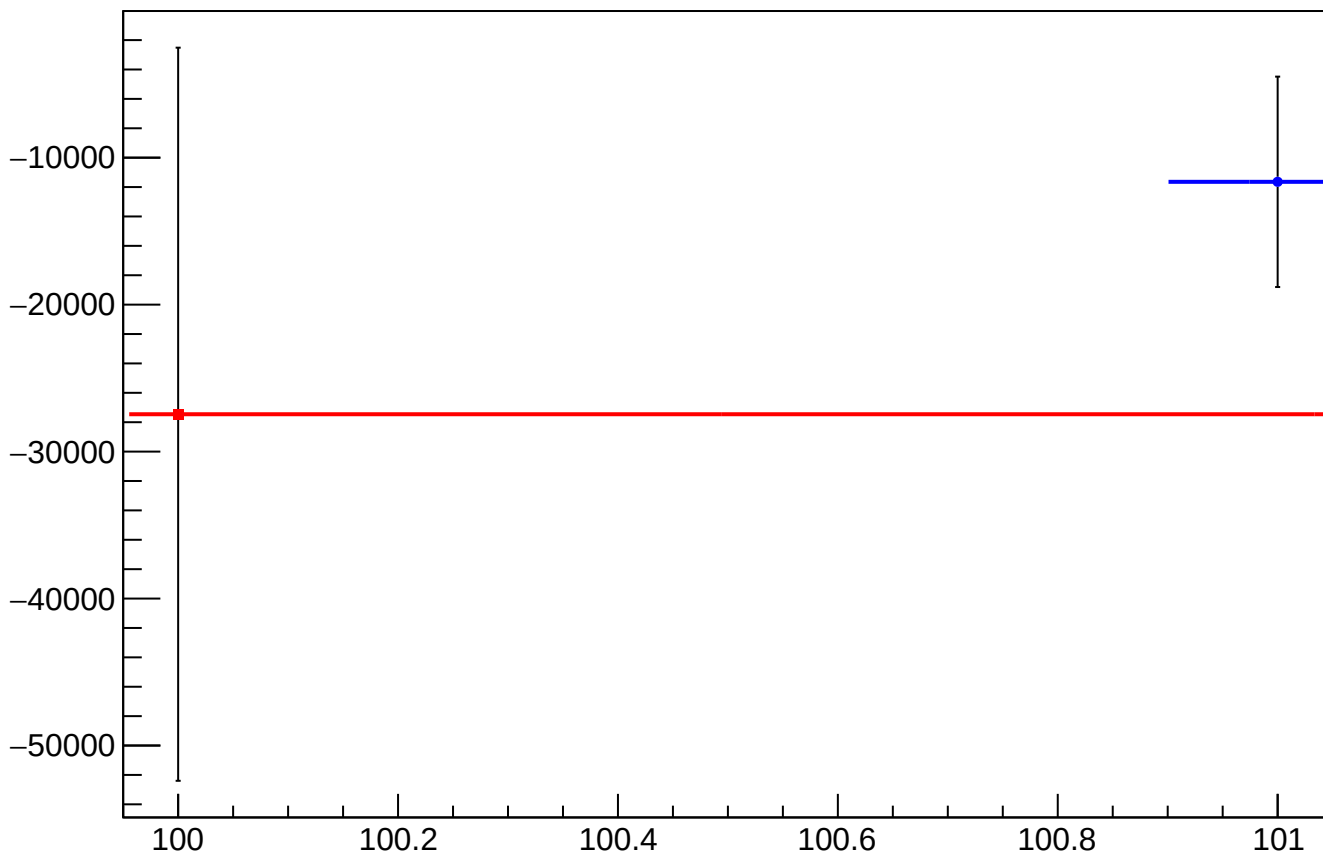
In: 1688.035 $\pm$ 1.475  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1729.223 $\pm$ 1.443  $\chi^2$ /NDF: 18302.9/1



cor\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -11643.607+/-7157.926  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -27457.401+/-24942.202  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

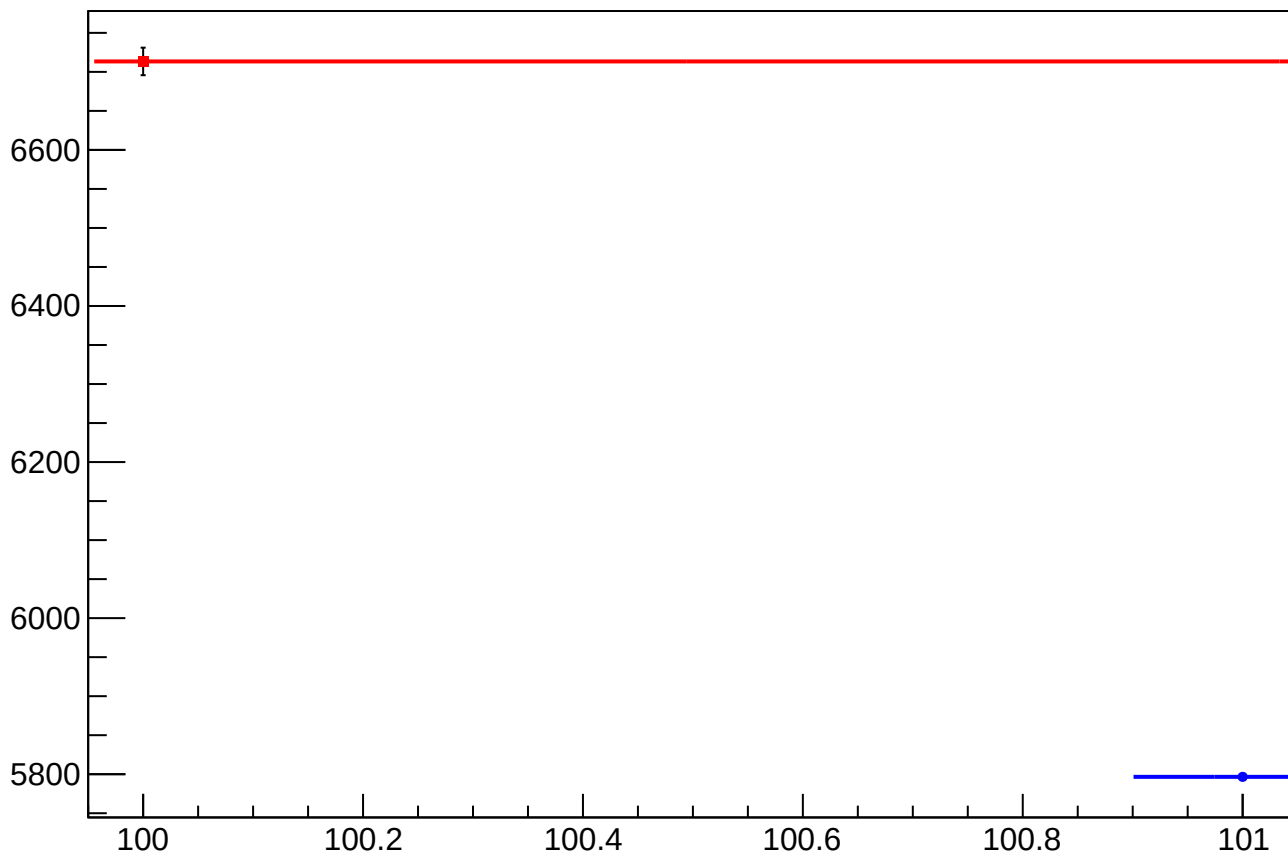
Right: -12846.896+/-6880.212  $\chi^2/\text{NDF}$ : 0.4/1

In: -11643.607+/-7157.926  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12846.896+/-6880.212  $\chi^2/\text{NDF}$ : 0.4/1

cor\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 5796.621 $\pm$ 5.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6713.388 $\pm$ 17.637  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

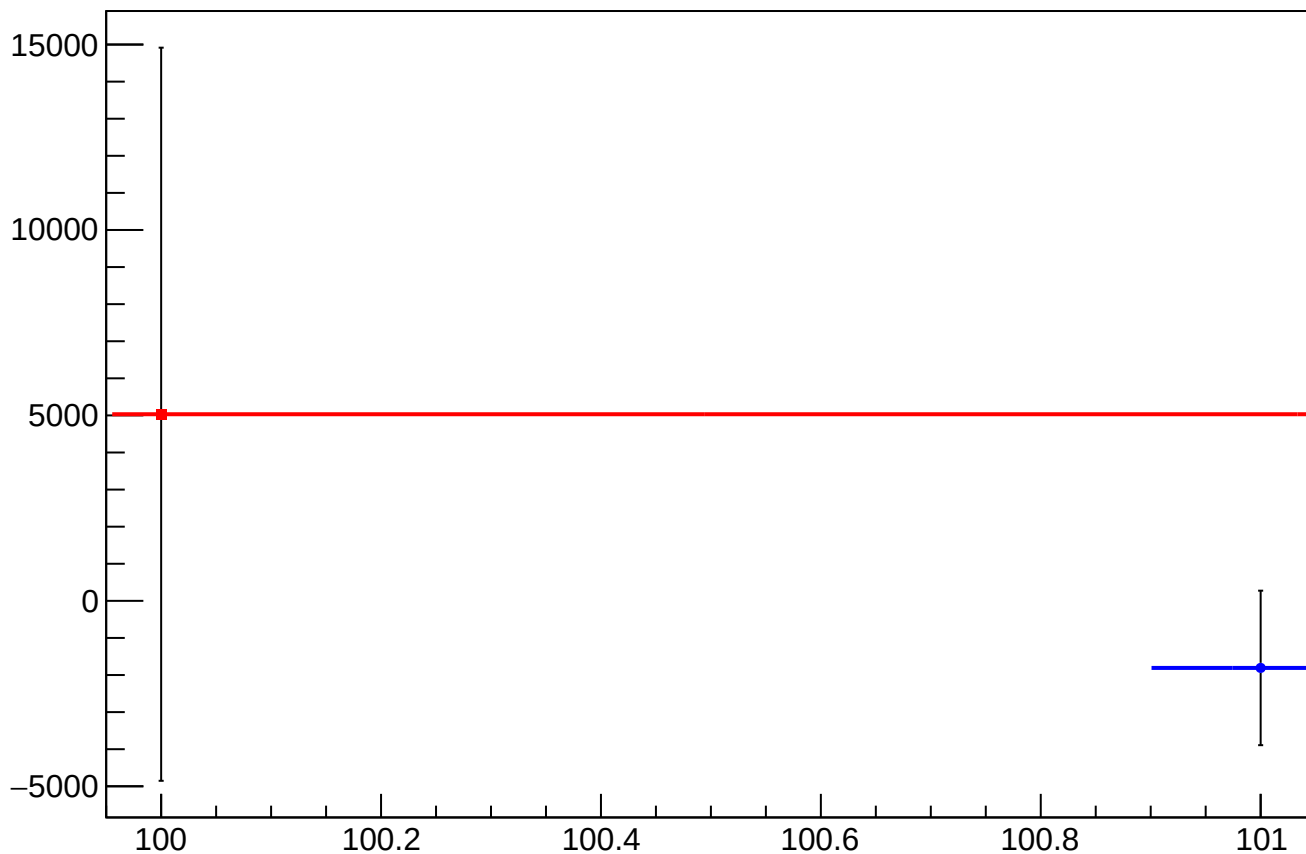
Right: 5866.379 $\pm$ 4.865  $\chi^2$ /NDF: 2496.4/1

In: 5796.621 $\pm$ 5.061  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5866.379 $\pm$ 4.865  $\chi^2$ /NDF: 2496.4/1

asym\_us\_dd\_at1lr\_dd\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1808.568+/-2082.929  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5031.792+/-9883.832  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

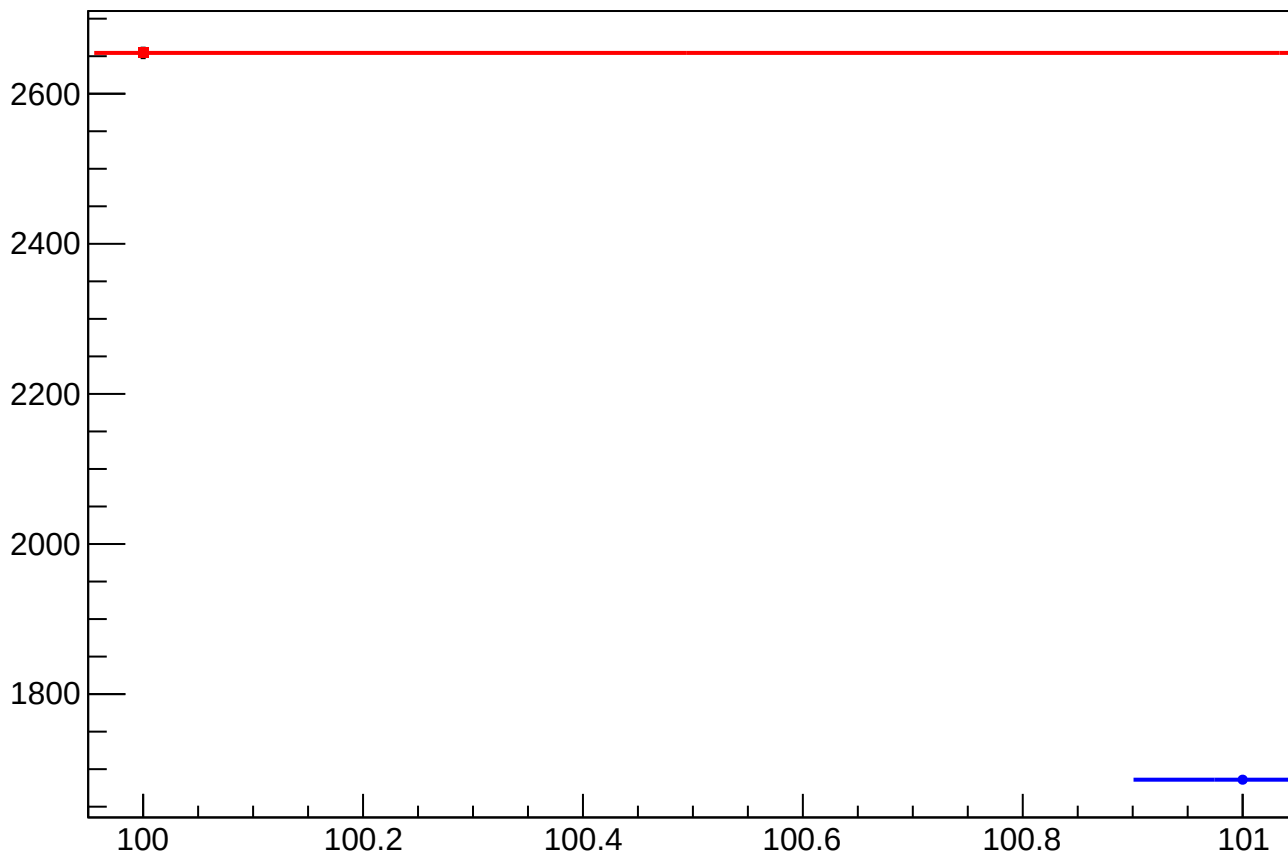
Right: -1517.693+/-2038.161  $\chi^2/\text{NDF}$ : 0.5/1

In: -1808.568+/-2082.929  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1517.693+/-2038.161  $\chi^2/\text{NDF}$ : 0.5/1

asym\_us\_dd\_at1lr\_dd\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1685.968 $\pm$ 1.473  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2654.378 $\pm$ 6.989  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

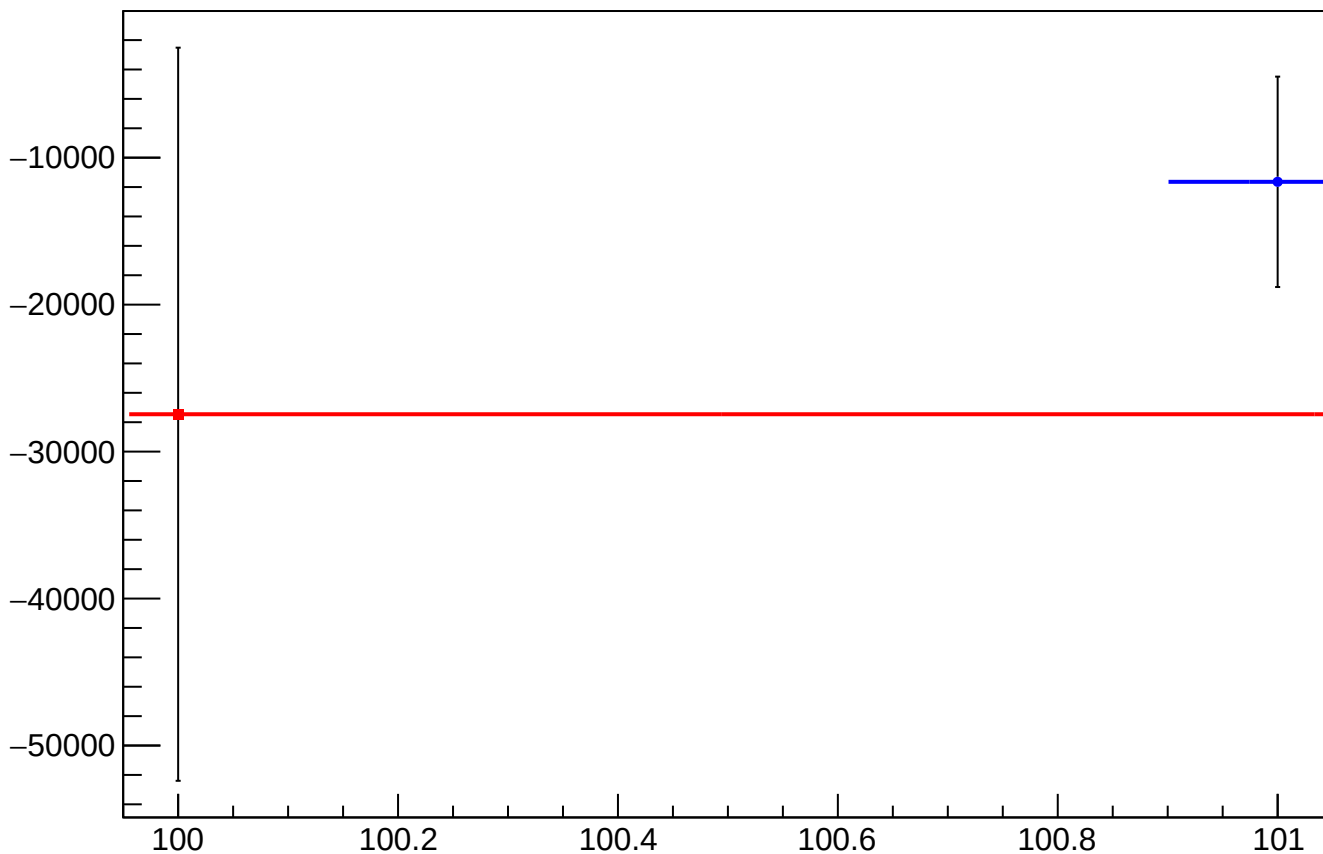
Right: 1727.148 $\pm$ 1.441  $\chi^2$ /NDF: 18383.4/1

In: 1685.968 $\pm$ 1.473  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1727.148 $\pm$ 1.441  $\chi^2$ /NDF: 18383.4/1

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -11643.607+/-7157.926  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -27457.401+/-24942.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

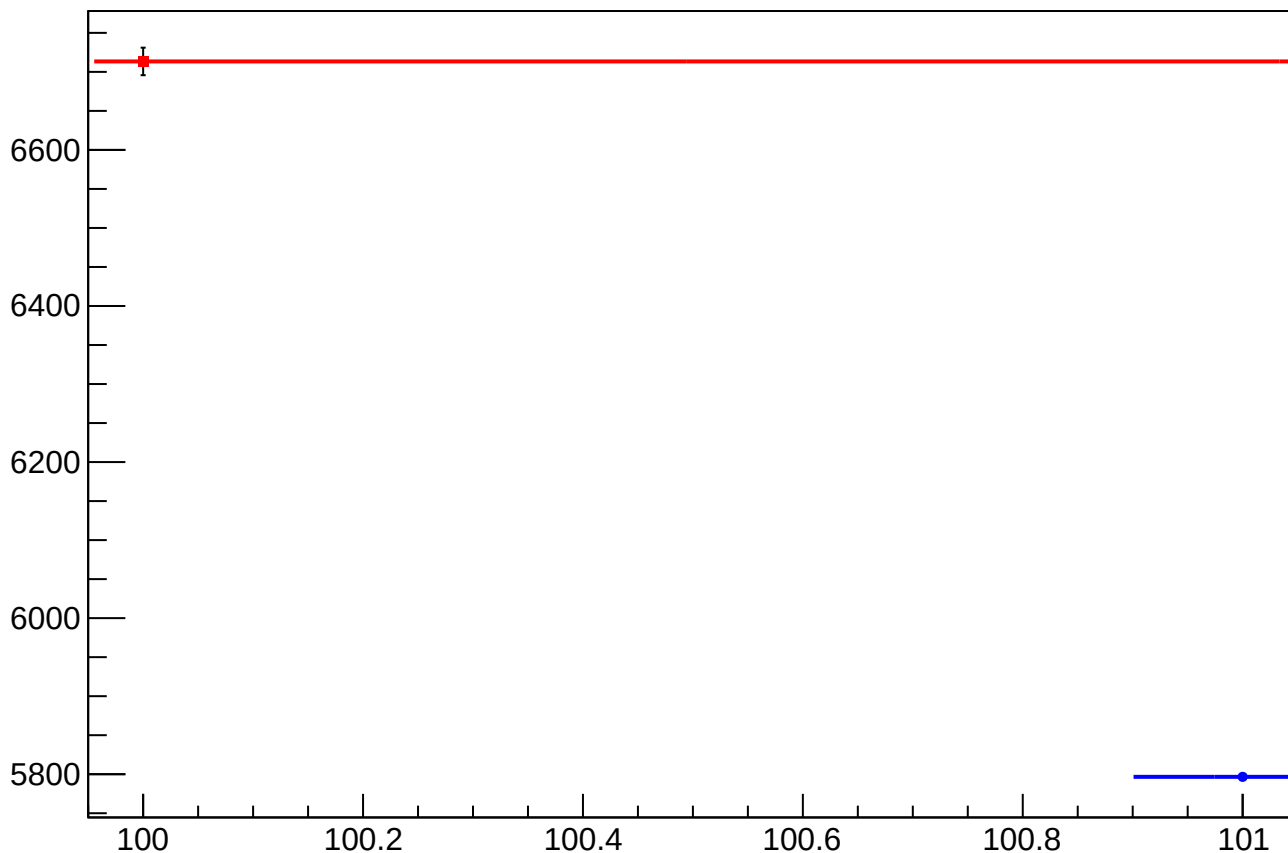
Right: -12846.896+/-6880.212  $\chi^2$ /NDF: 0.4/1

In: -11643.607+/-7157.926  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -12846.896+/-6880.212  $\chi^2$ /NDF: 0.4/1

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 5796.621+/-5.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 6713.388+/-17.637  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

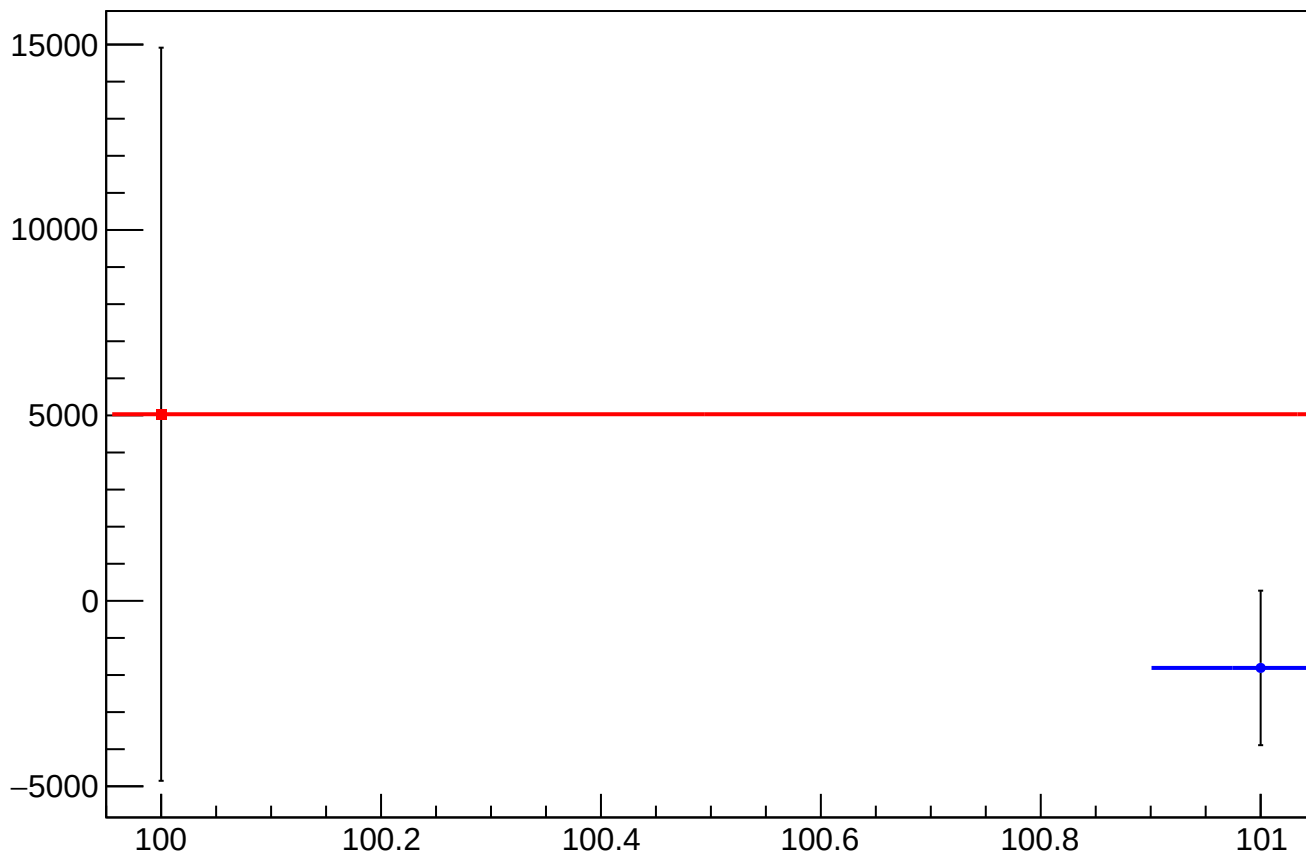
Right: 5866.379+/-4.865  $\chi^2$ /NDF: 2496.4/1

In: 5796.621+/-5.061  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 5866.379+/-4.865  $\chi^2$ /NDF: 2496.4/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1808.568+/-2082.929  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5031.792+/-9883.832  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

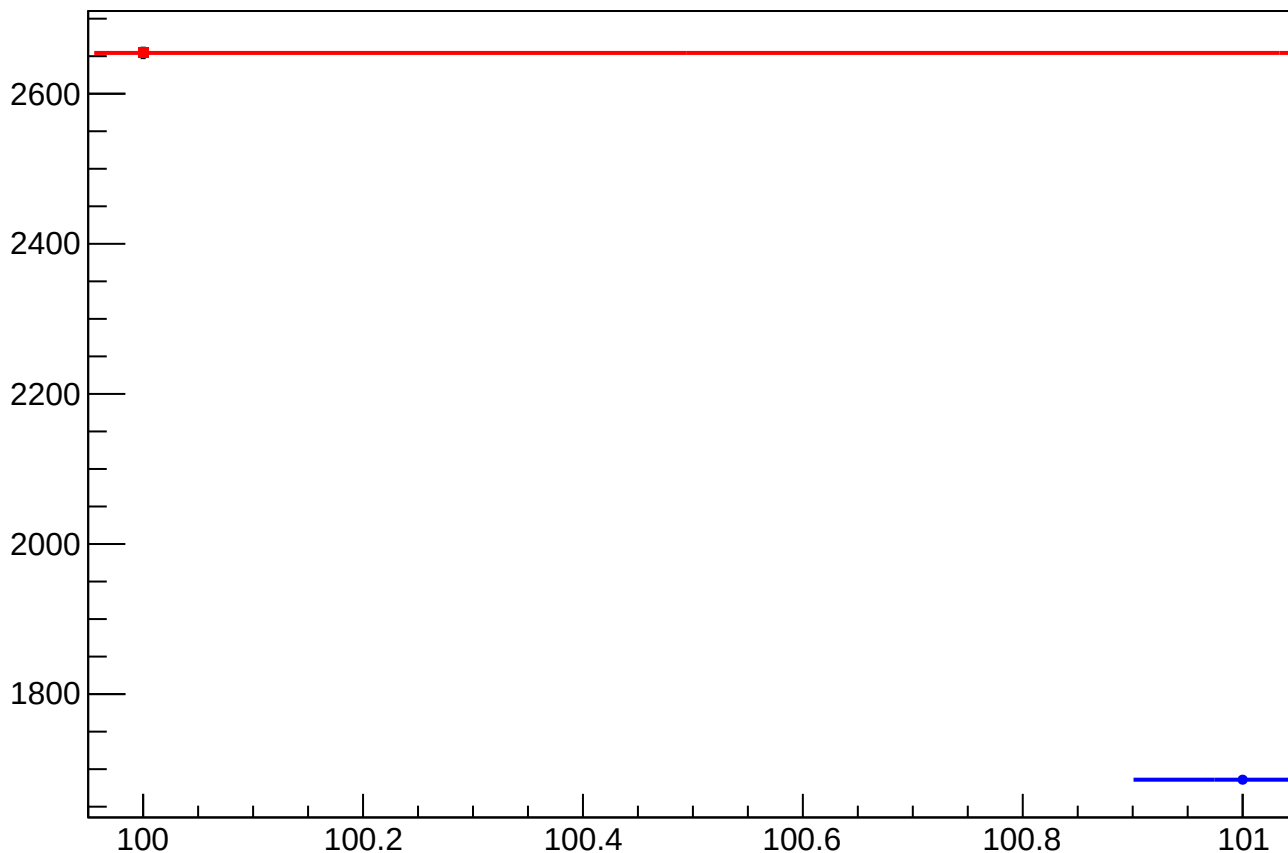
Right: -1517.693+/-2038.161  $\chi^2/\text{NDF}$ : 0.5/1

In: -1808.568+/-2082.929  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1517.693+/-2038.161  $\chi^2/\text{NDF}$ : 0.5/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1685.968 $\pm$ 1.473  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2654.378 $\pm$ 6.989  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1727.148 $\pm$ 1.441  $\chi^2$ /NDF: 18383.4/1

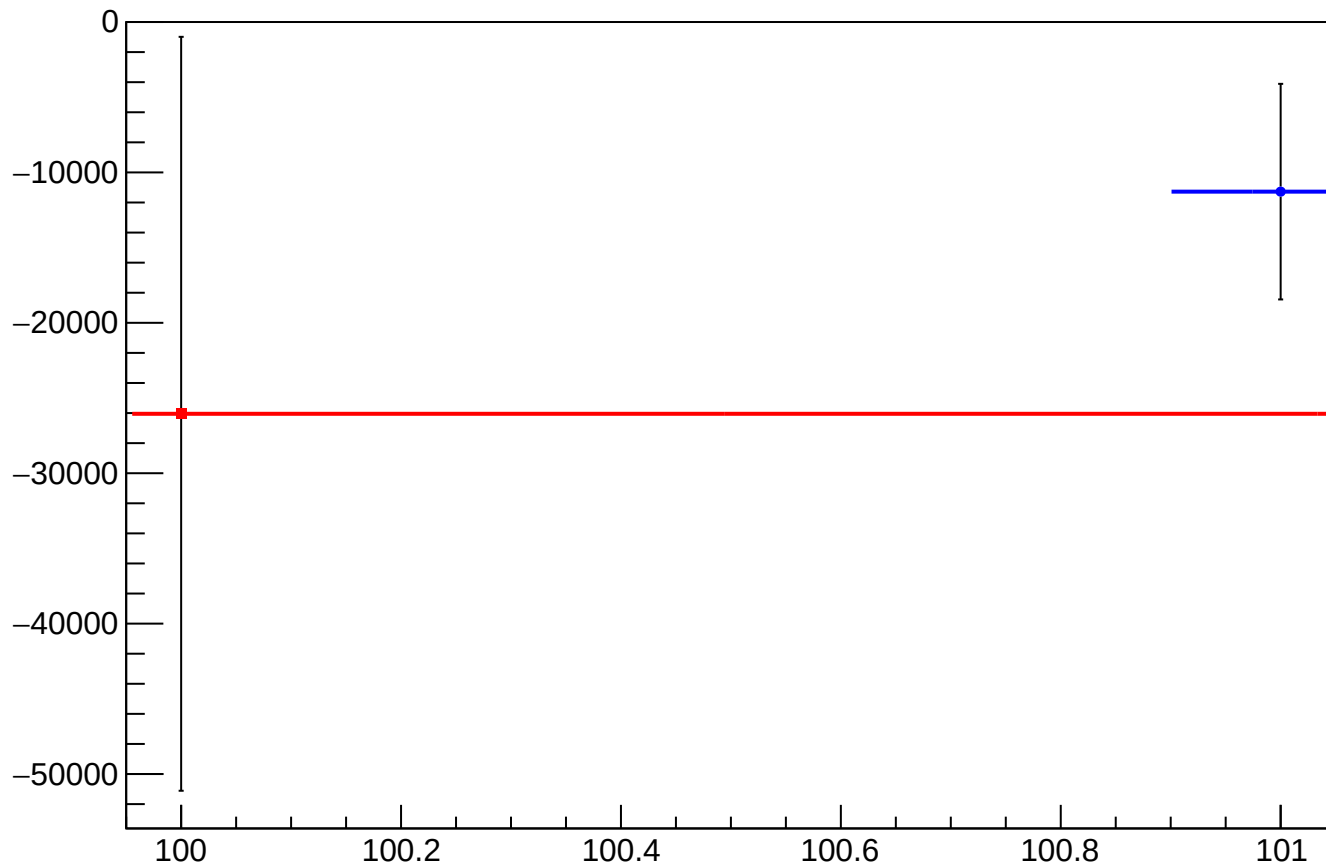
In: 1685.968 $\pm$ 1.473  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1727.148 $\pm$ 1.441  $\chi^2$ /NDF: 18383.4/1



dit\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -11278.334+/-7167.230  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -26049.090+/-25063.498  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

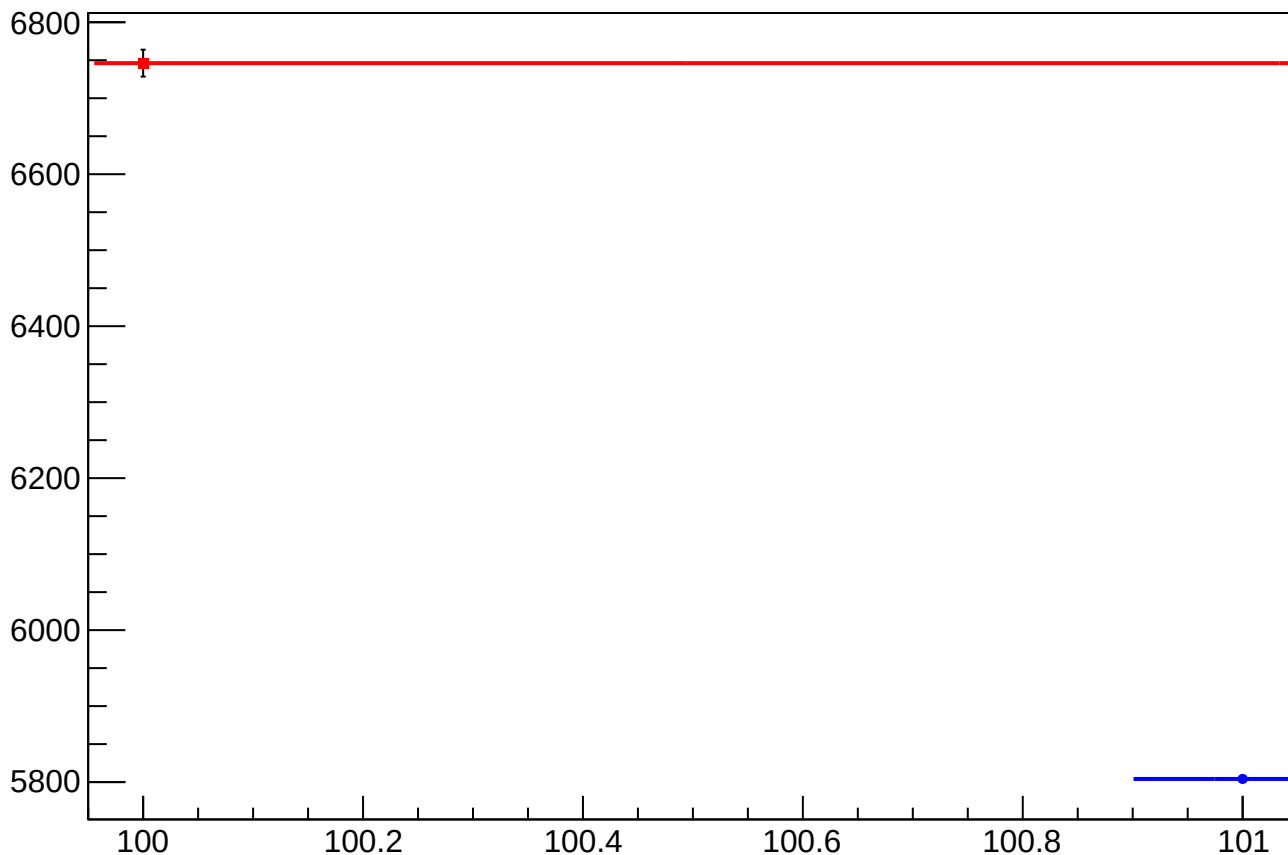
Right: -12394.902+/-6891.010  $\chi^2/\text{NDF}$ : 0.3/1

In: -11278.334+/-7167.230  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12394.902+/-6891.010  $\chi^2/\text{NDF}$ : 0.3/1

dit\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 5804.156+/-5.068  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6746.167+/-17.723  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

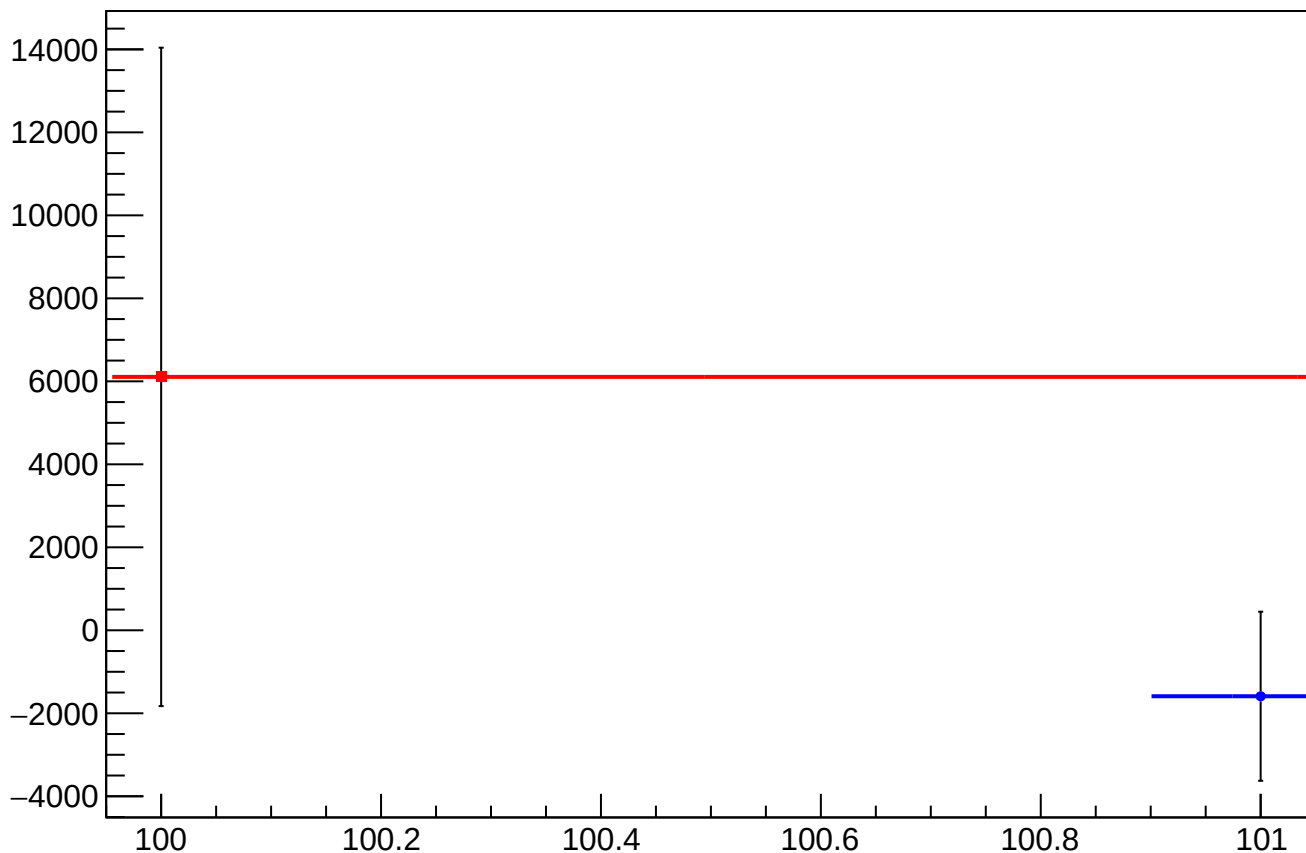
Right: 5875.366+/-4.873  $\chi^2/\text{NDF}$ : 2611.7/1

In: 5804.156+/-5.068  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5875.366+/-4.873  $\chi^2/\text{NDF}$ : 2611.7/1

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1589.443+/-2037.699  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6107.096+/-7933.967  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

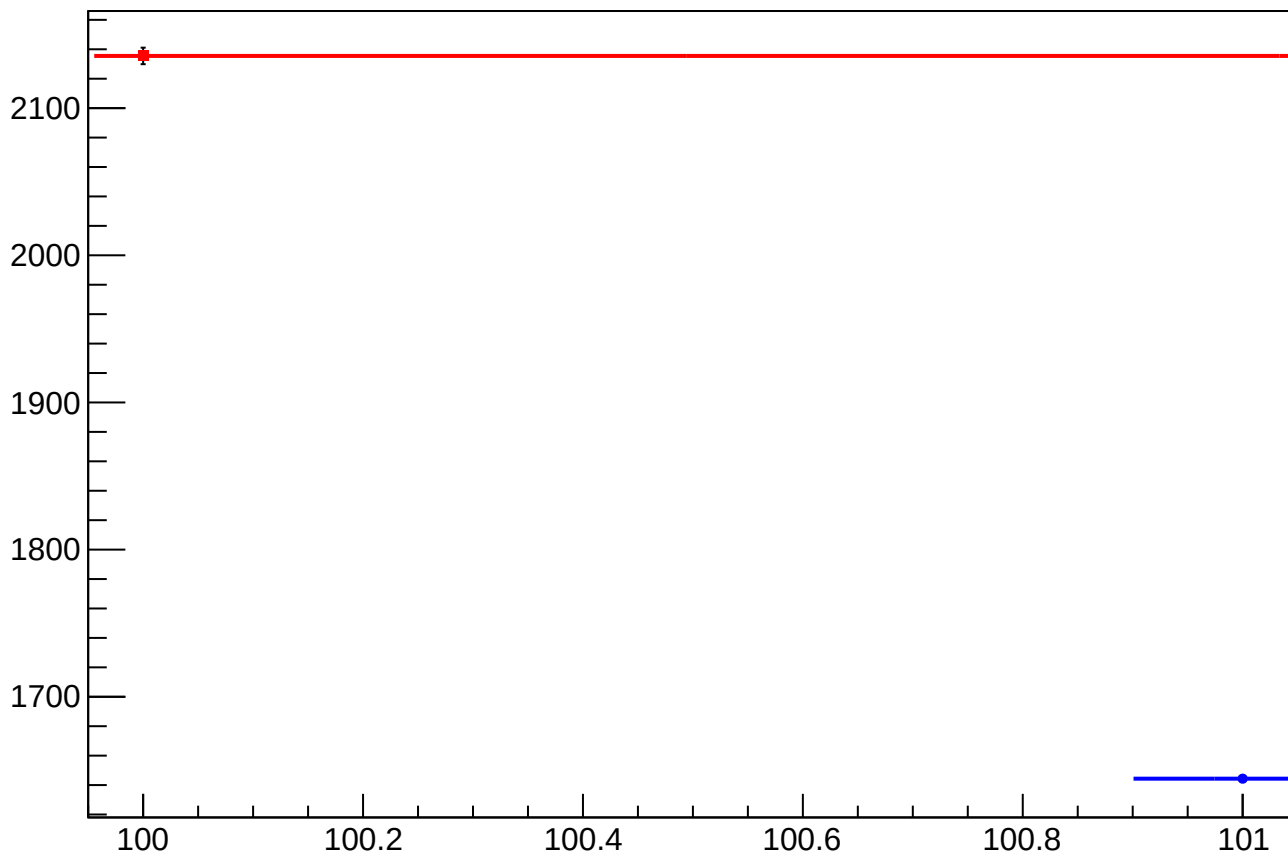
Right: -1113.173+/-1973.645  $\chi^2/\text{NDF}$ : 0.9/1

In: -1589.443+/-2037.699  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1113.173+/-1973.645  $\chi^2/\text{NDF}$ : 0.9/1

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1644.342+/-1.441  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2135.483+/-5.610  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

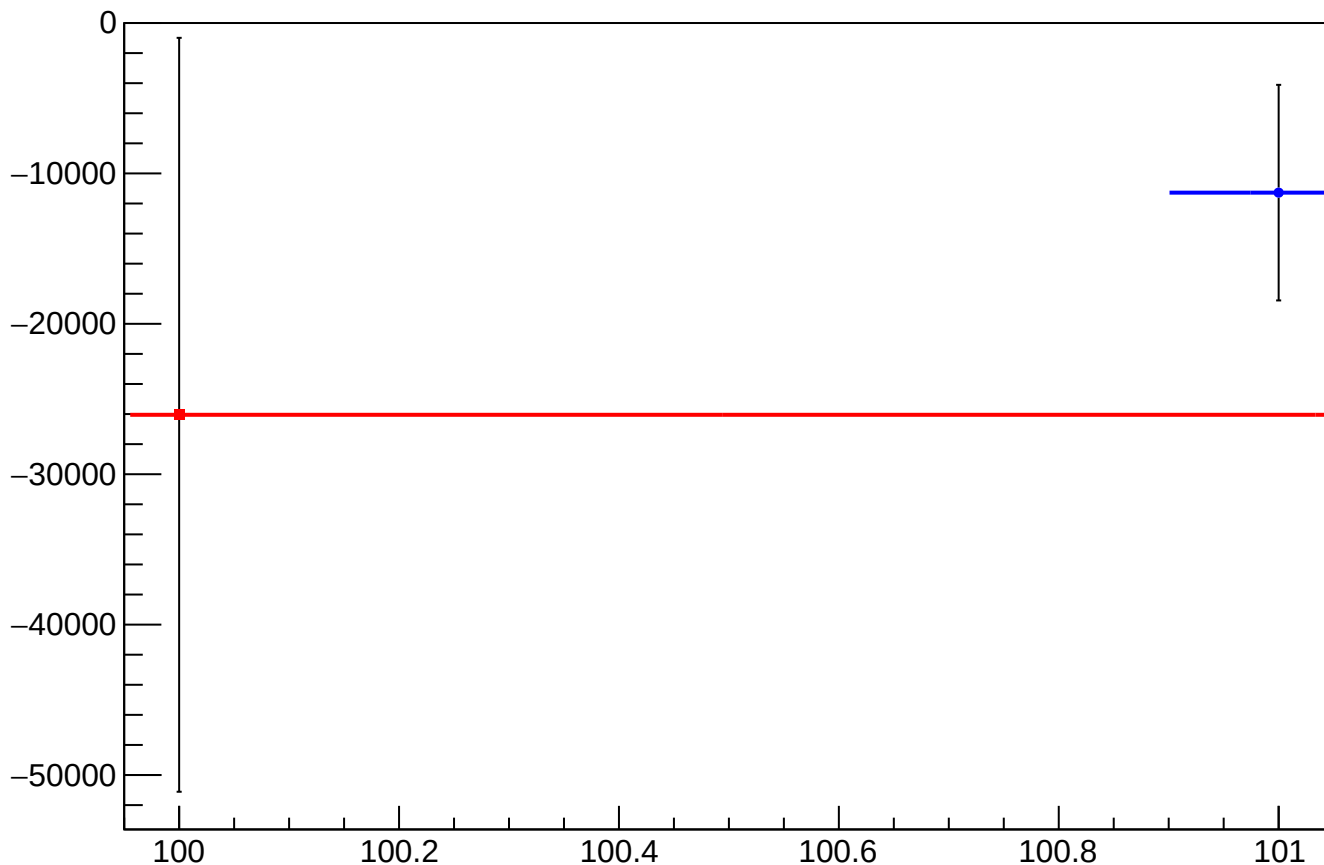
Right: 1674.734+/-1.396  $\chi^2/\text{NDF}$ : 7189.8/1

In: 1644.342+/-1.441  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1674.734+/-1.396  $\chi^2/\text{NDF}$ : 7189.8/1

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -11278.340+/-7167.230  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -26049.073+/-25063.498  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

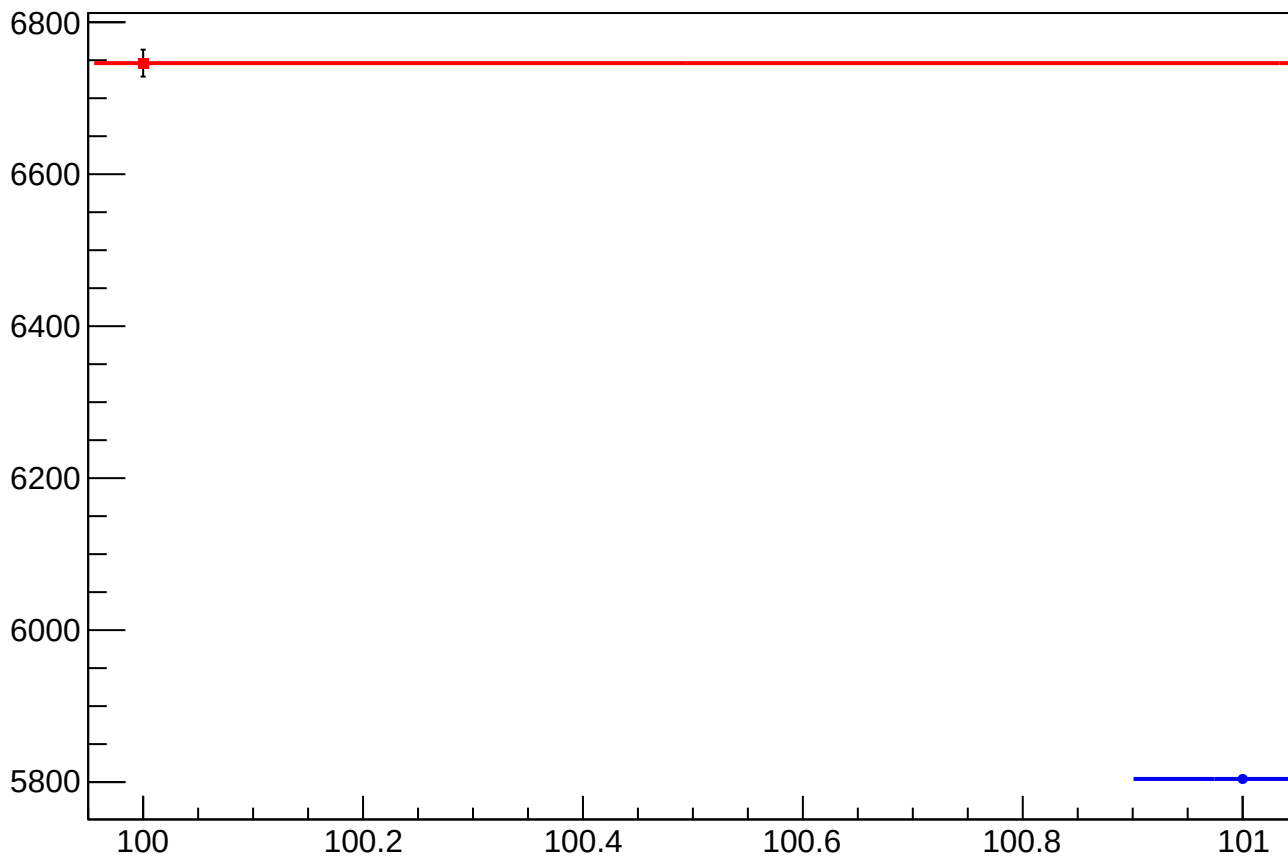
Right: -12394.906+/-6891.010  $\chi^2/\text{NDF}$ : 0.3/1

In: -11278.340+/-7167.230  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12394.906+/-6891.010  $\chi^2/\text{NDF}$ : 0.3/1

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 5804.156+/-5.068  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6746.166+/-17.723  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

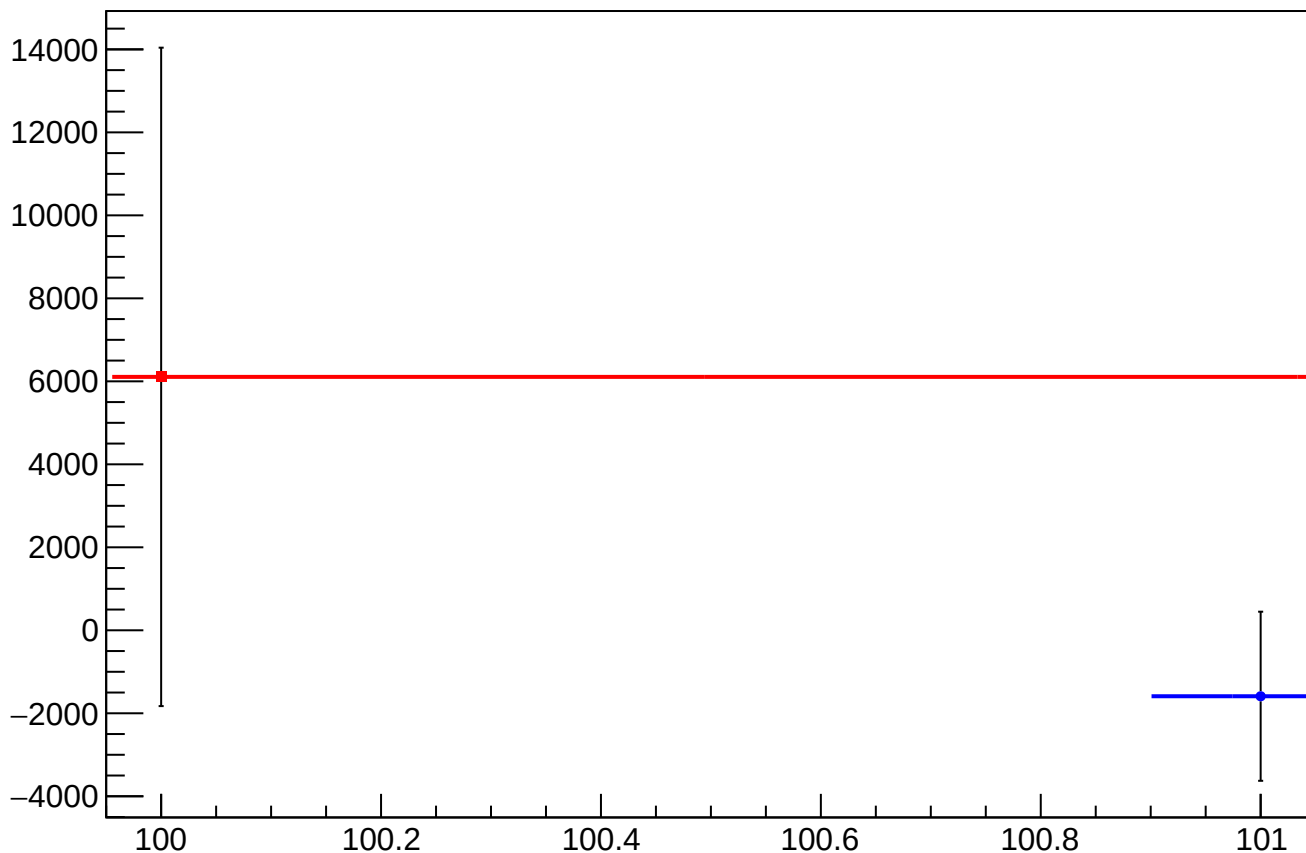
Right: 5875.366+/-4.873  $\chi^2/\text{NDF}$ : 2611.7/1

In: 5804.156+/-5.068  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5875.366+/-4.873  $\chi^2/\text{NDF}$ : 2611.7/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1589.448+/-2037.699  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6107.113+/-7933.972  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

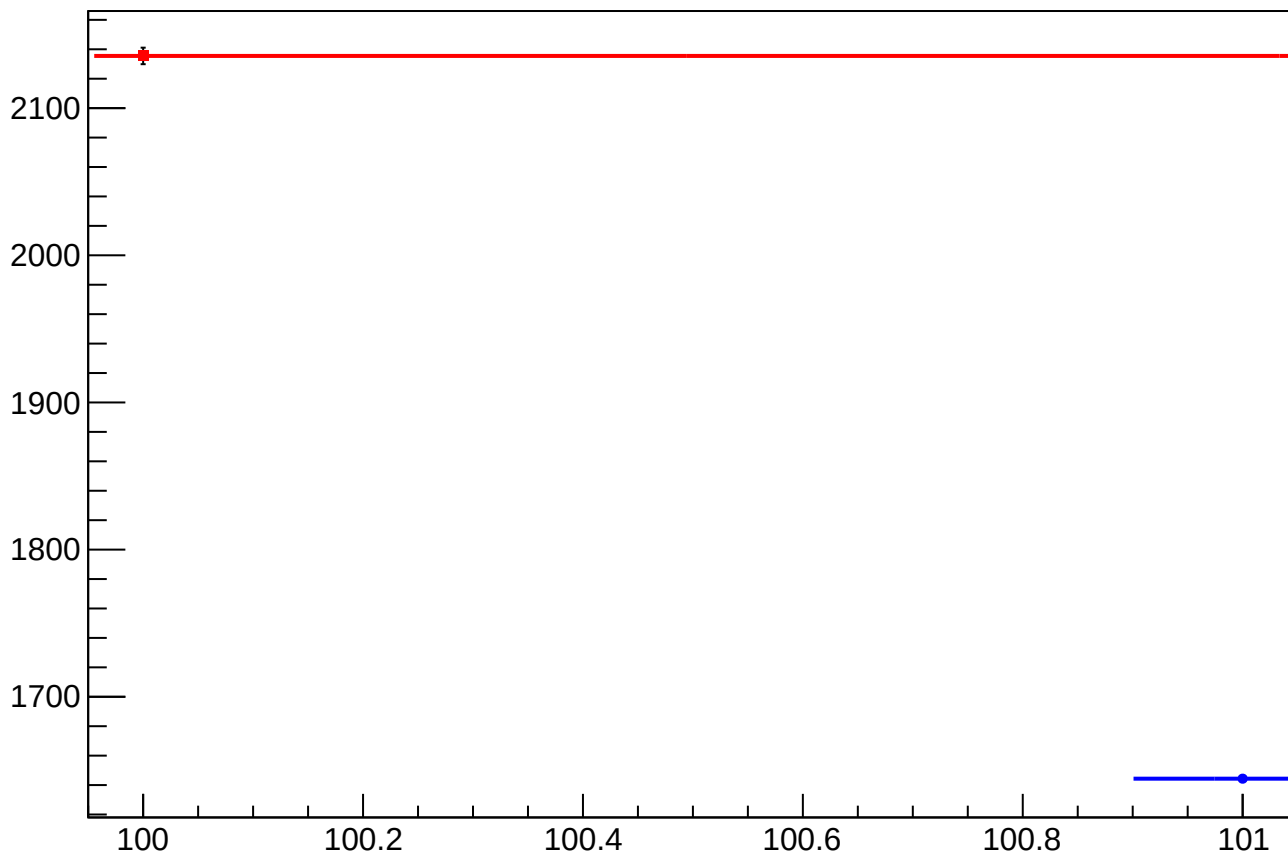
Right: -1113.178+/-1973.645  $\chi^2/\text{NDF}$ : 0.9/1

In: -1589.448+/-2037.699  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1113.178+/-1973.645  $\chi^2/\text{NDF}$ : 0.9/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1644.342 $\pm$ 1.441  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2135.484 $\pm$ 5.610  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1674.735 $\pm$ 1.396  $\chi^2$ /NDF: 7189.9/1

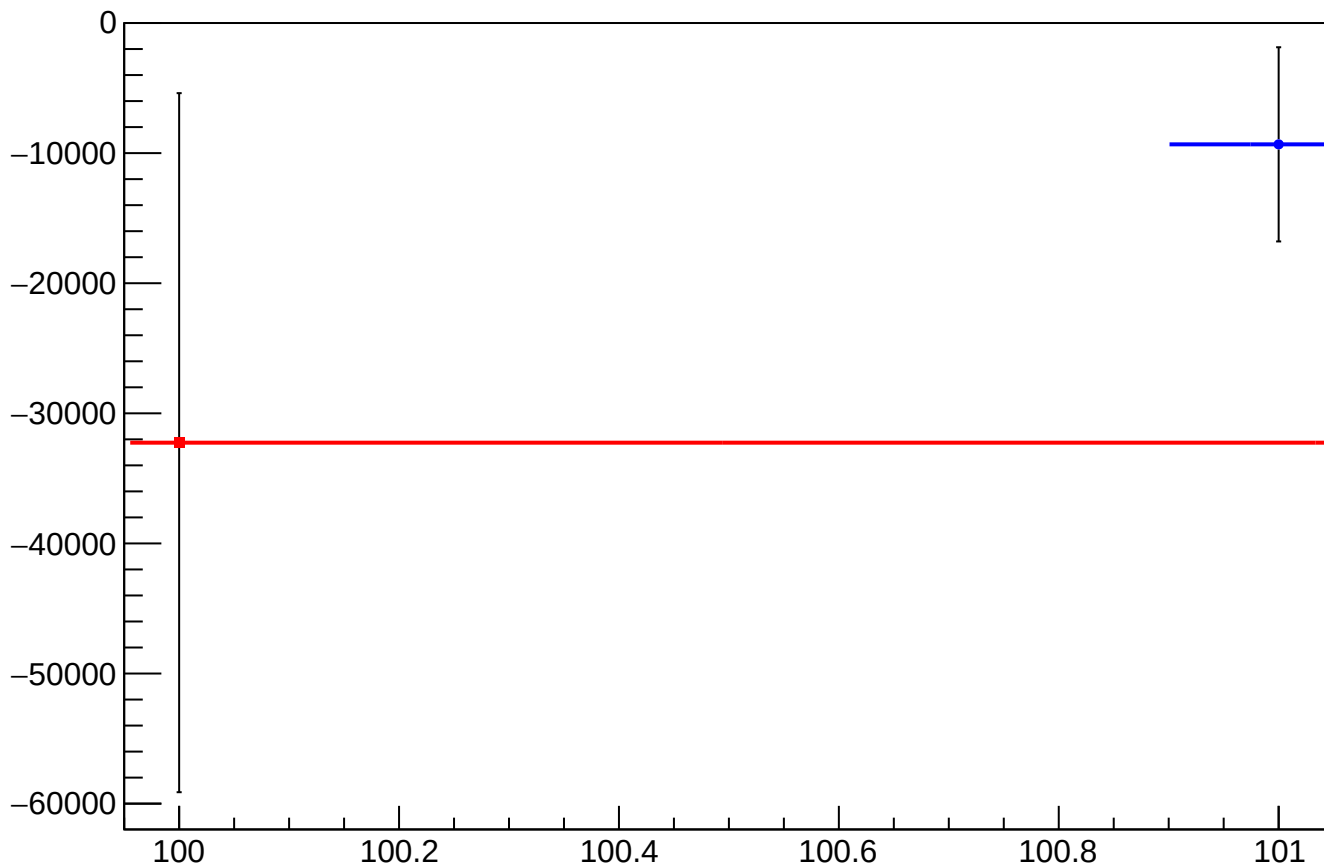
In: 1644.342 $\pm$ 1.441  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1674.735 $\pm$ 1.396  $\chi^2$ /NDF: 7189.9/1



asym\_us\_dd\_at1lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -9325.930+/-7462.994  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32255.860+/-26865.669  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

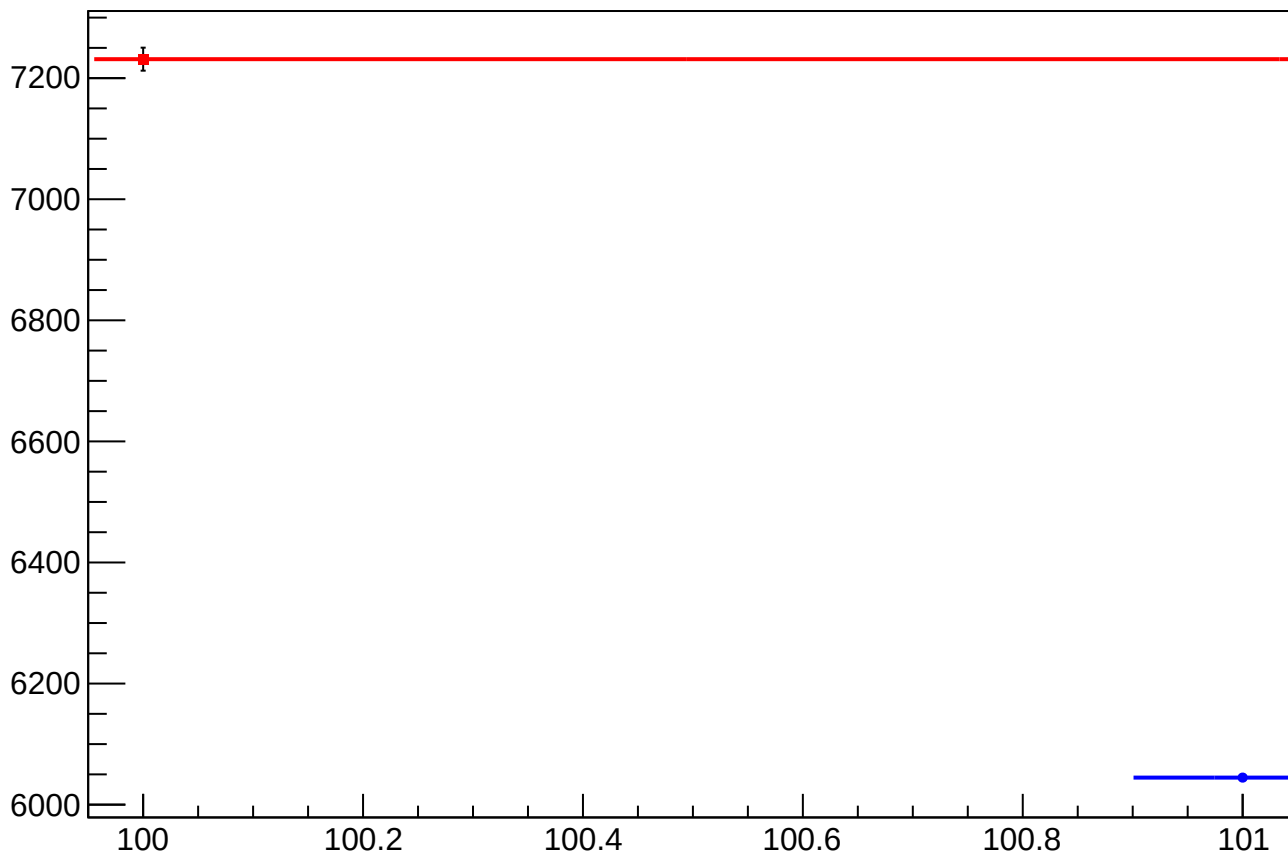
Right: -10968.601+/-7190.707  $\chi^2/\text{NDF}$ : 0.7/1

In: -9325.930+/-7462.994  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10968.601+/-7190.707  $\chi^2/\text{NDF}$ : 0.7/1

asym\_us\_dd\_at1lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 6044.672 $\pm$ 5.277  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7231.358 $\pm$ 18.997  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

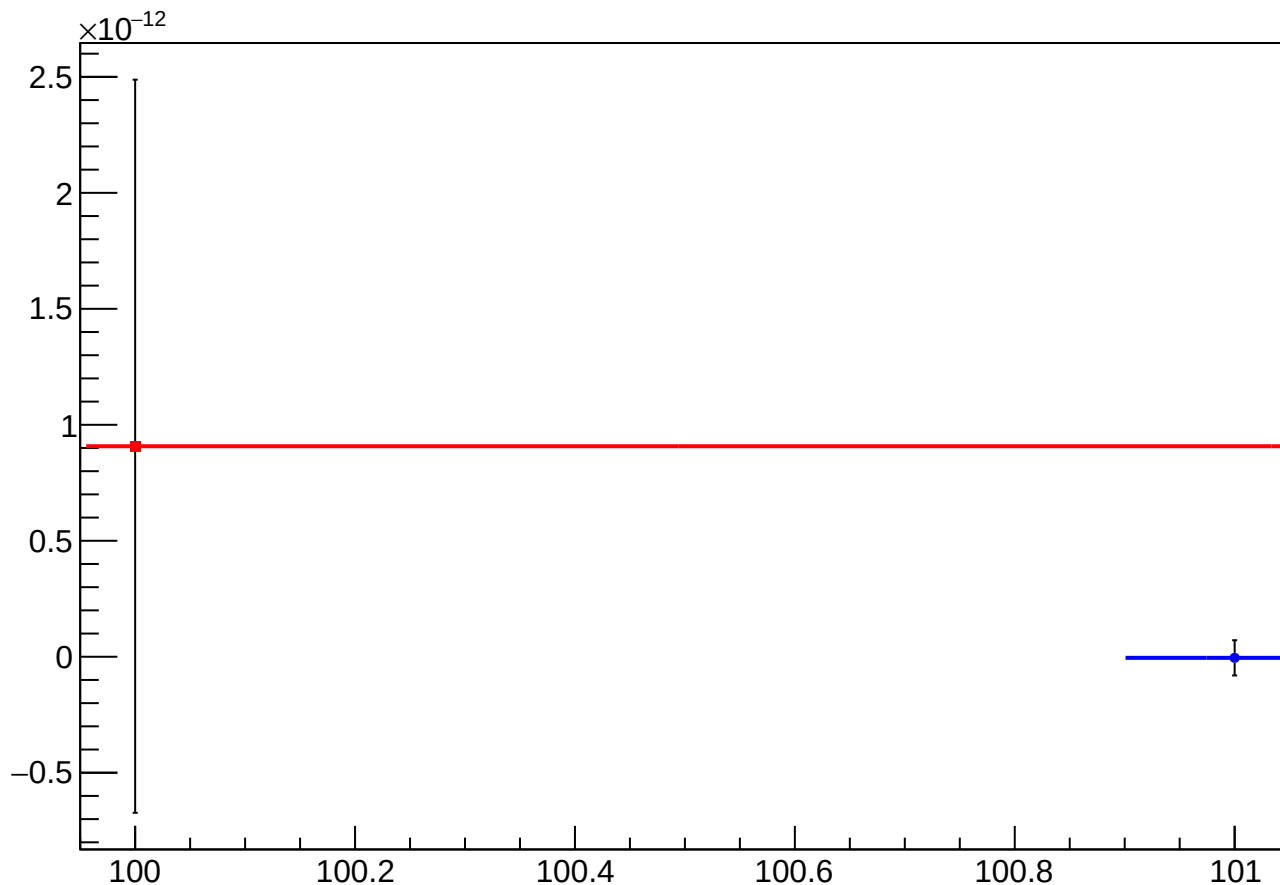
Right: 6129.685 $\pm$ 5.085  $\chi^2$ /NDF: 3622.6/1

In: 6044.672 $\pm$ 5.277  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6129.685 $\pm$ 5.085  $\chi^2$ /NDF: 3622.6/1

asym\_us\_dd\_at1lr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

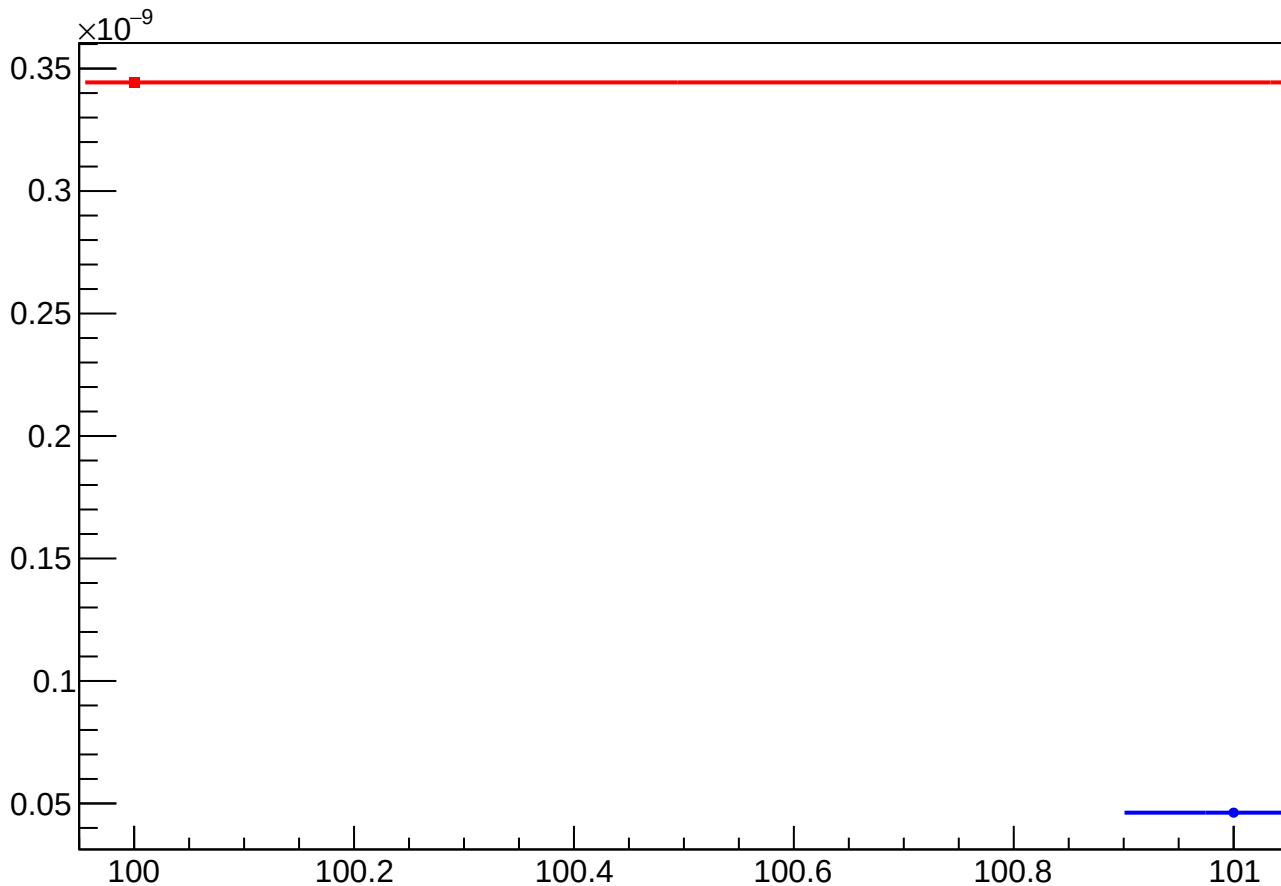
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_dd\_at1lr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

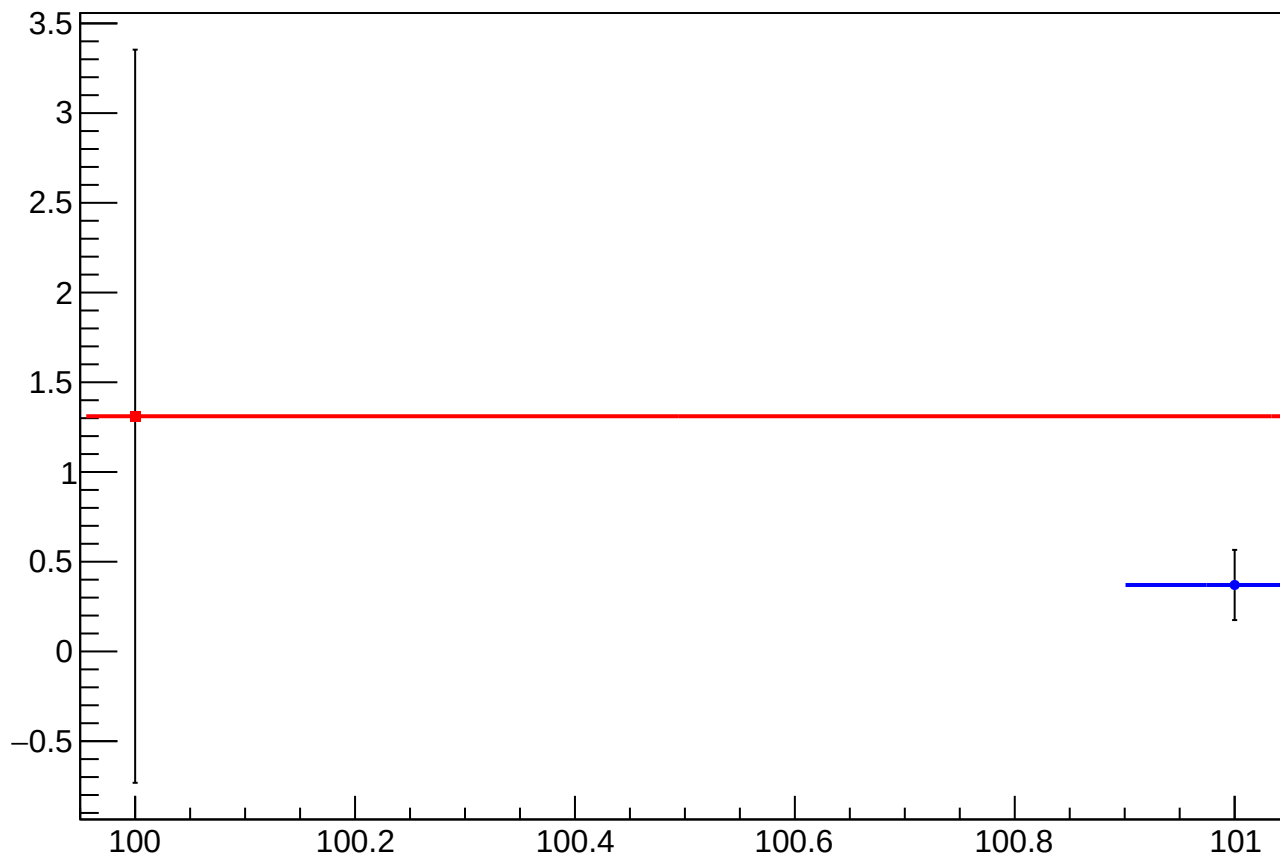
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 71002.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 71002.6/1

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.370 $\pm$ 0.195  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.311 $\pm$ 2.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

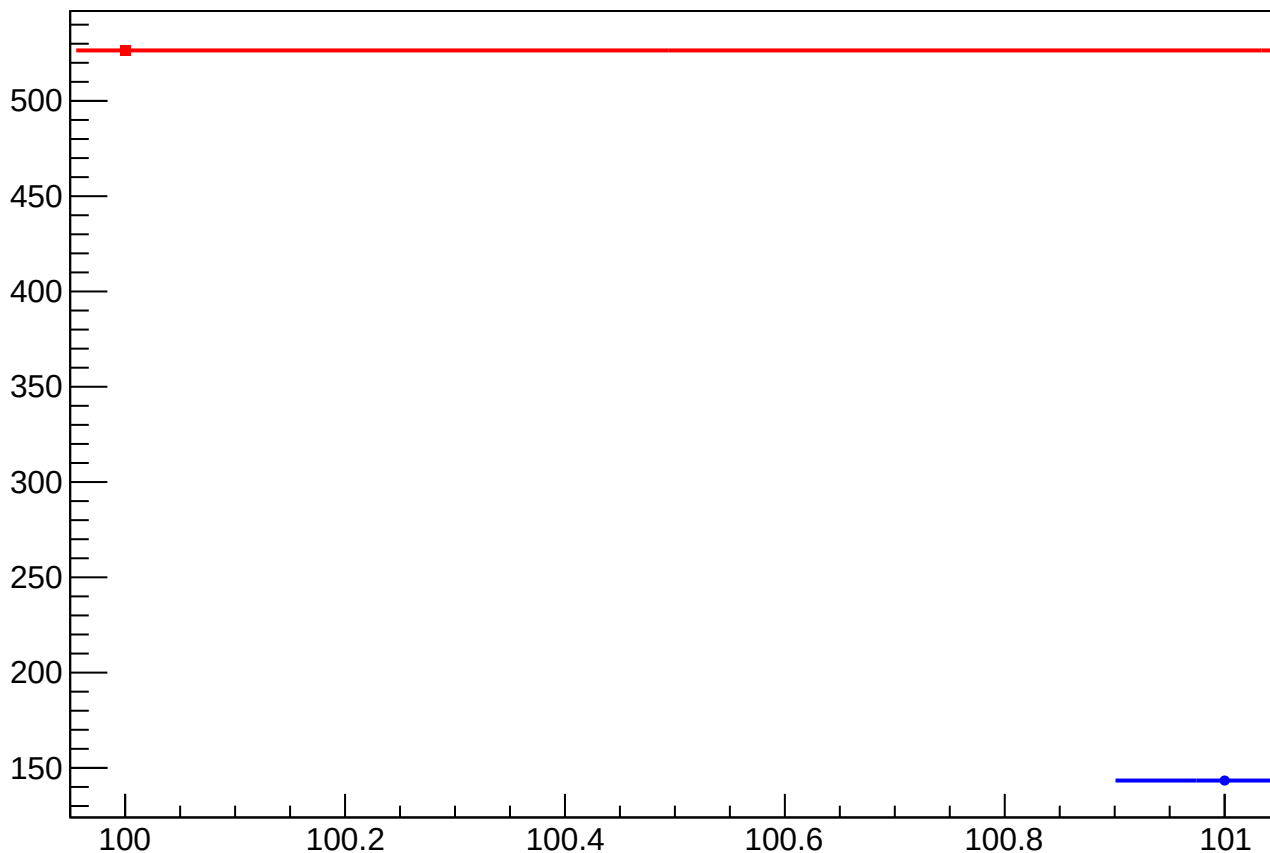
Right: 0.379 $\pm$ 0.195  $\chi^2$ /NDF: 0.2/1

In: 0.370 $\pm$ 0.195  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.379 $\pm$ 0.195  $\chi^2$ /NDF: 0.2/1

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 143.369 $\pm$ 0.138  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.489 $\pm$ 1.444  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

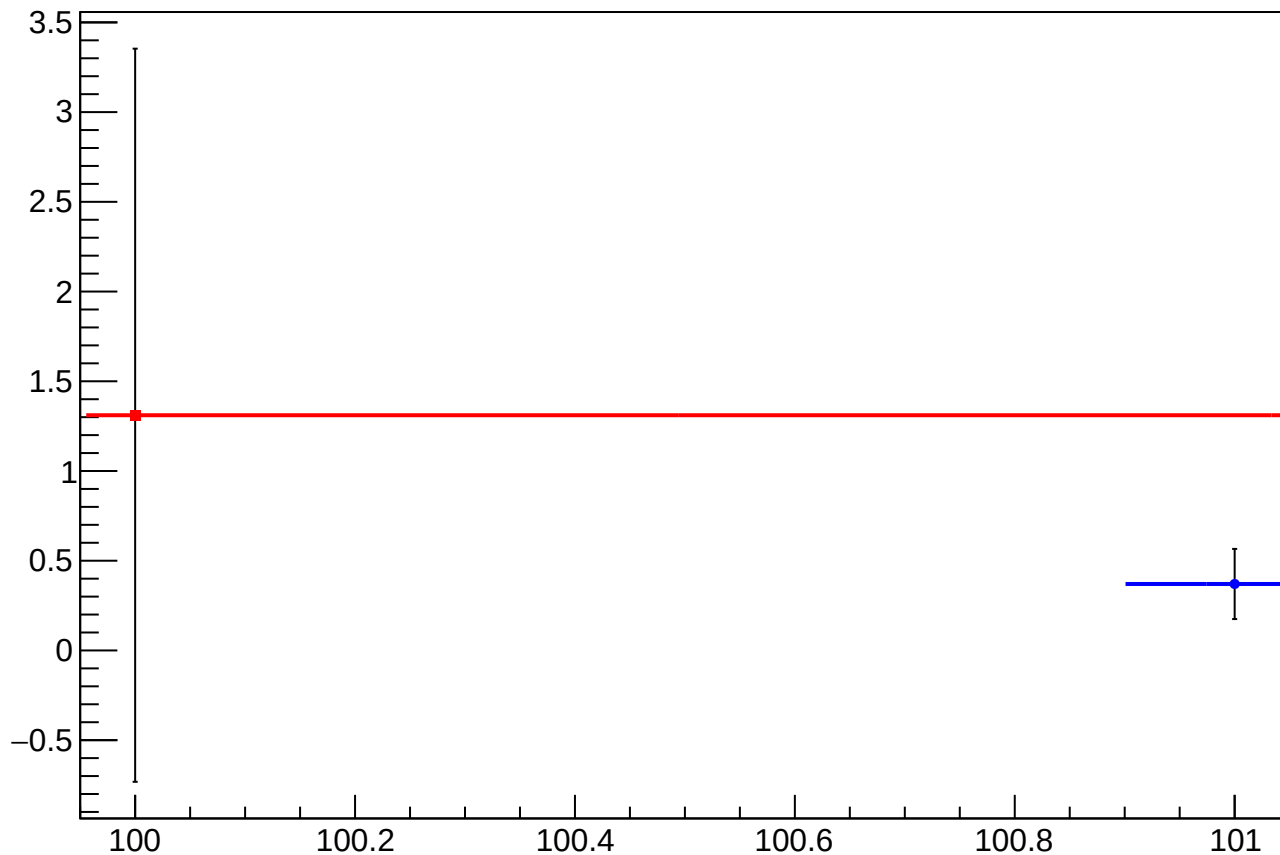
Right: 146.845 $\pm$ 0.138  $\chi^2$ /NDF: 69711.5/1

In: 143.369 $\pm$ 0.138  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146.845 $\pm$ 0.138  $\chi^2$ /NDF: 69711.5/1

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.370 $\pm$ 0.195  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.311 $\pm$ 2.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

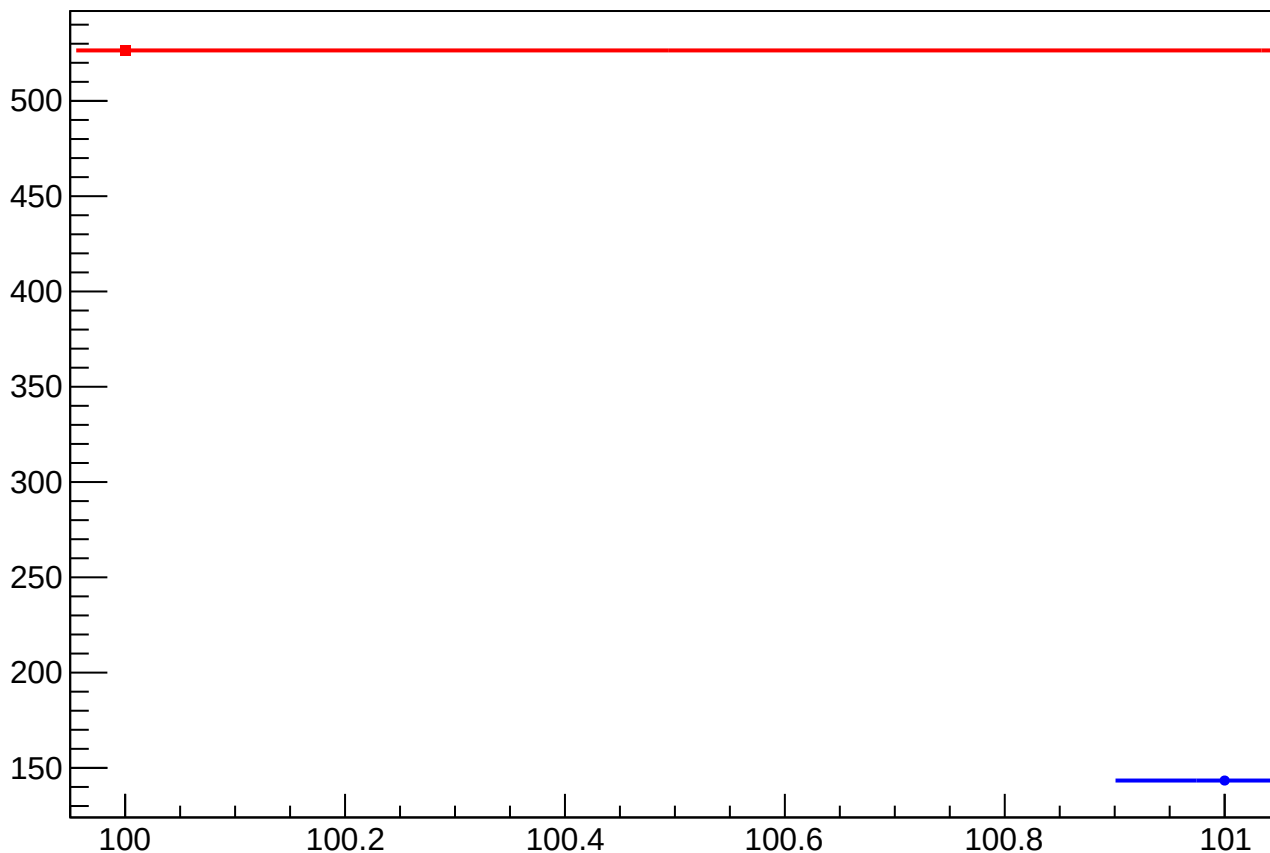
Right: 0.379 $\pm$ 0.195  $\chi^2$ /NDF: 0.2/1

In: 0.370 $\pm$ 0.195  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.379 $\pm$ 0.195  $\chi^2$ /NDF: 0.2/1

asym\_us\_dd\_at1lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 143.369 $\pm$ 0.138  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.489 $\pm$ 1.444  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 146.845 $\pm$ 0.138  $\chi^2$ /NDF: 69711.5/1

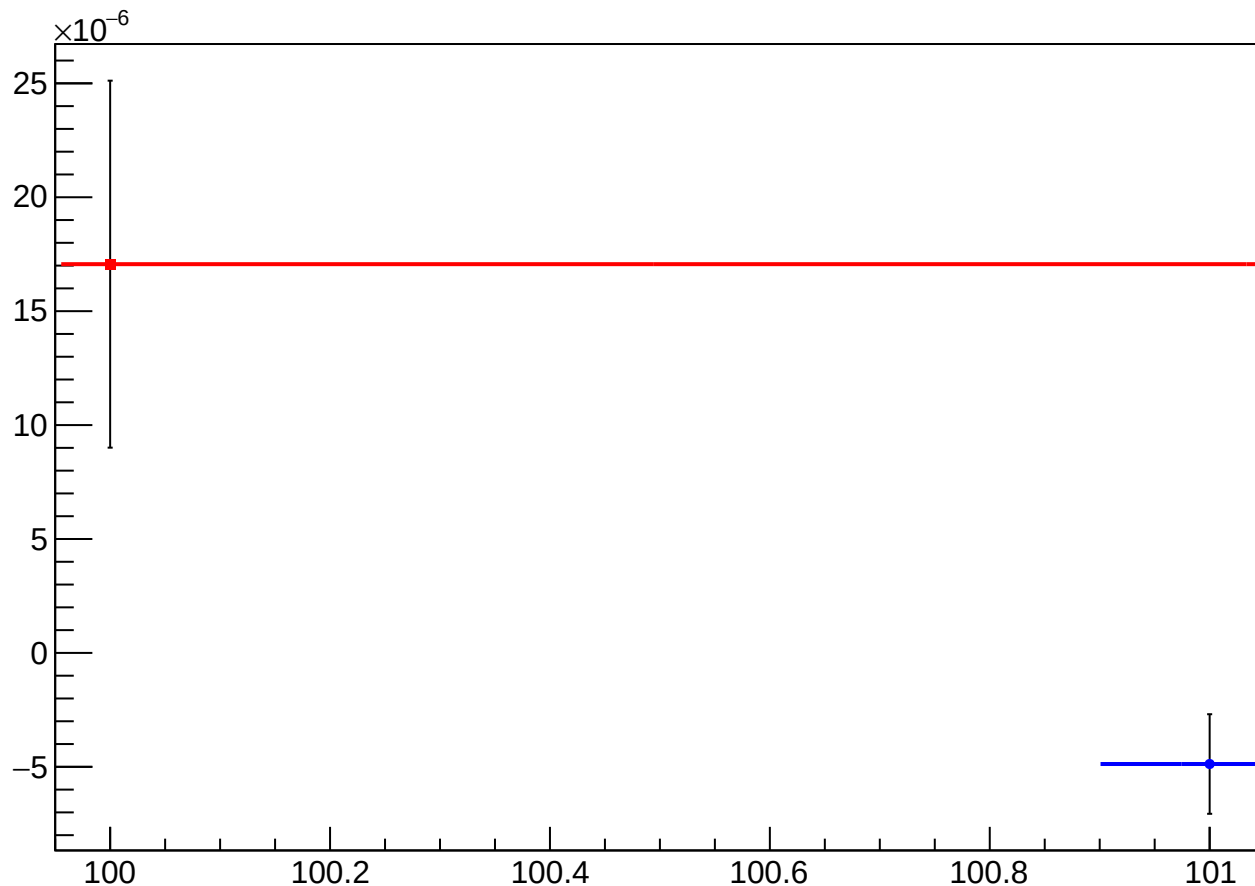
In: 143.369 $\pm$ 0.138  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146.845 $\pm$ 0.138  $\chi^2$ /NDF: 69711.5/1



asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

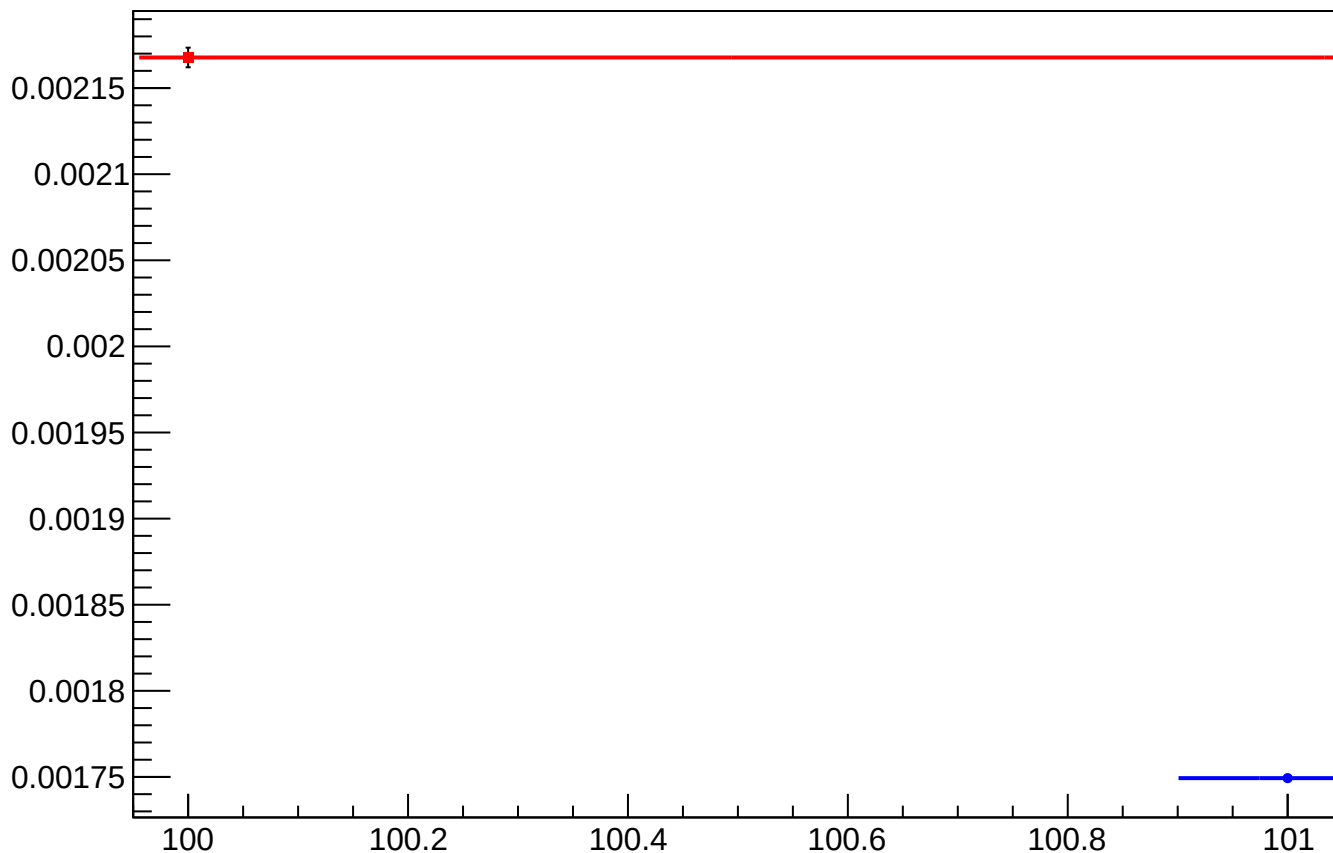
Right: -0.000+/-0.000  $\chi^2$ /NDF: 6.9/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 6.9/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

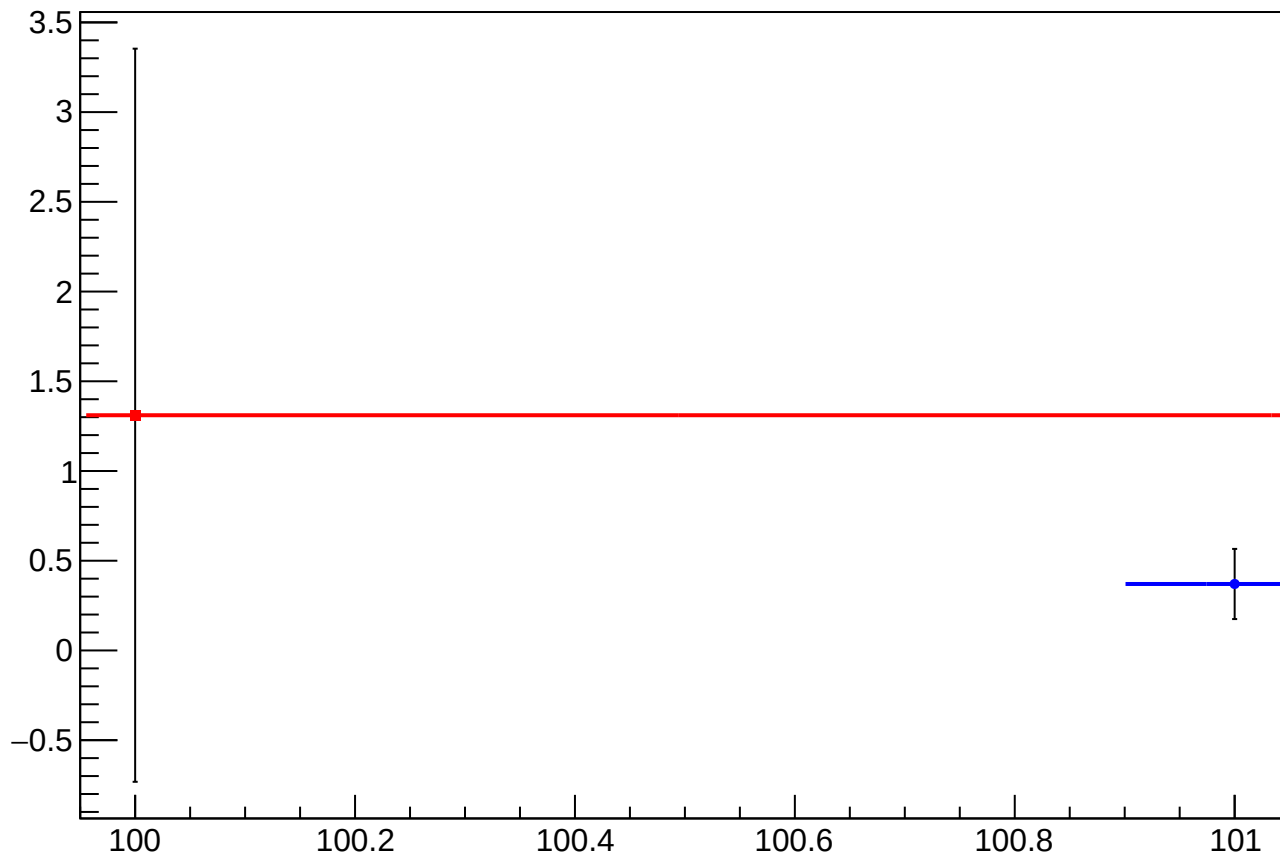
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 5028.8/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 5028.8/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.370+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.311+/-2.043  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

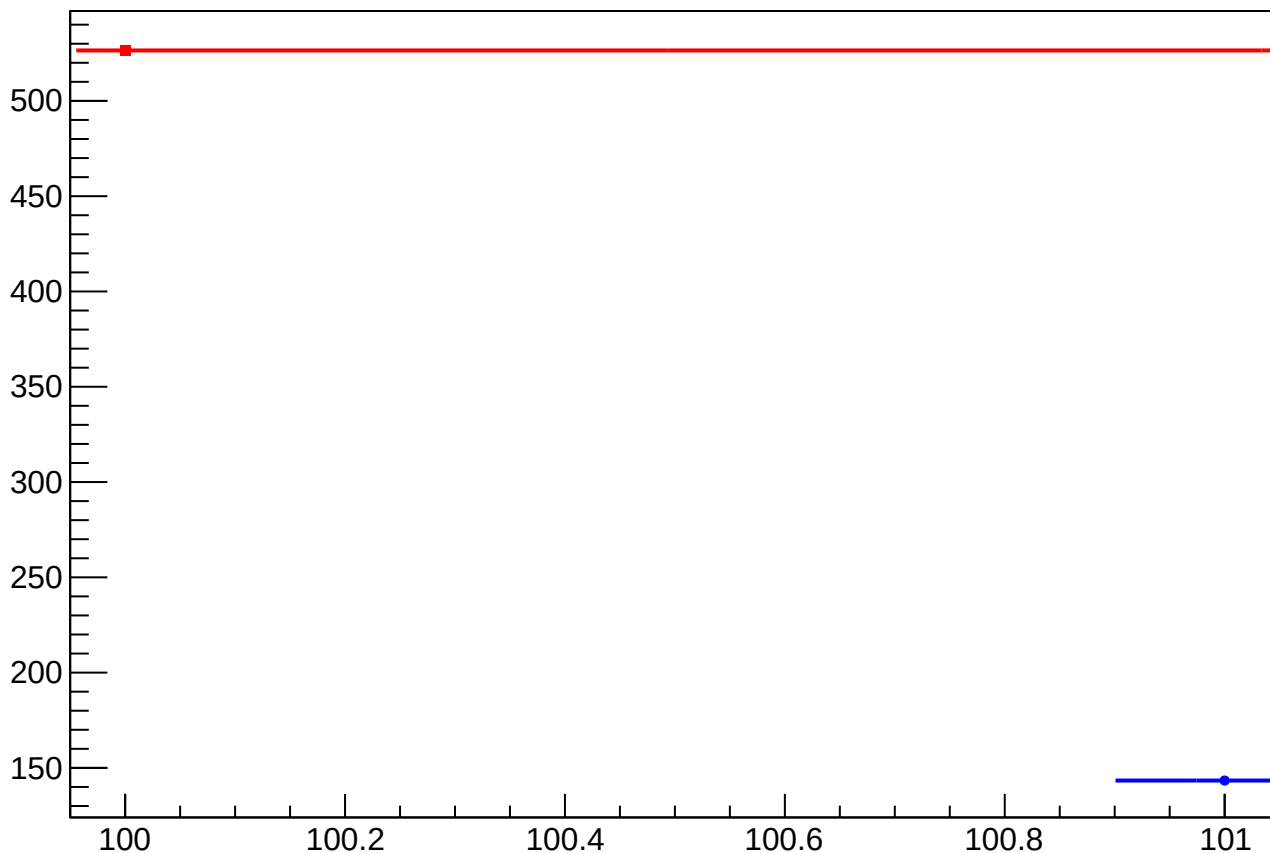
Right: 0.379+/-0.195  $\chi^2/\text{NDF}$ : 0.2/1

In: 0.370+/-0.195  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.379+/-0.195  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 143.369+/-0.138  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 526.488+/-1.444  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

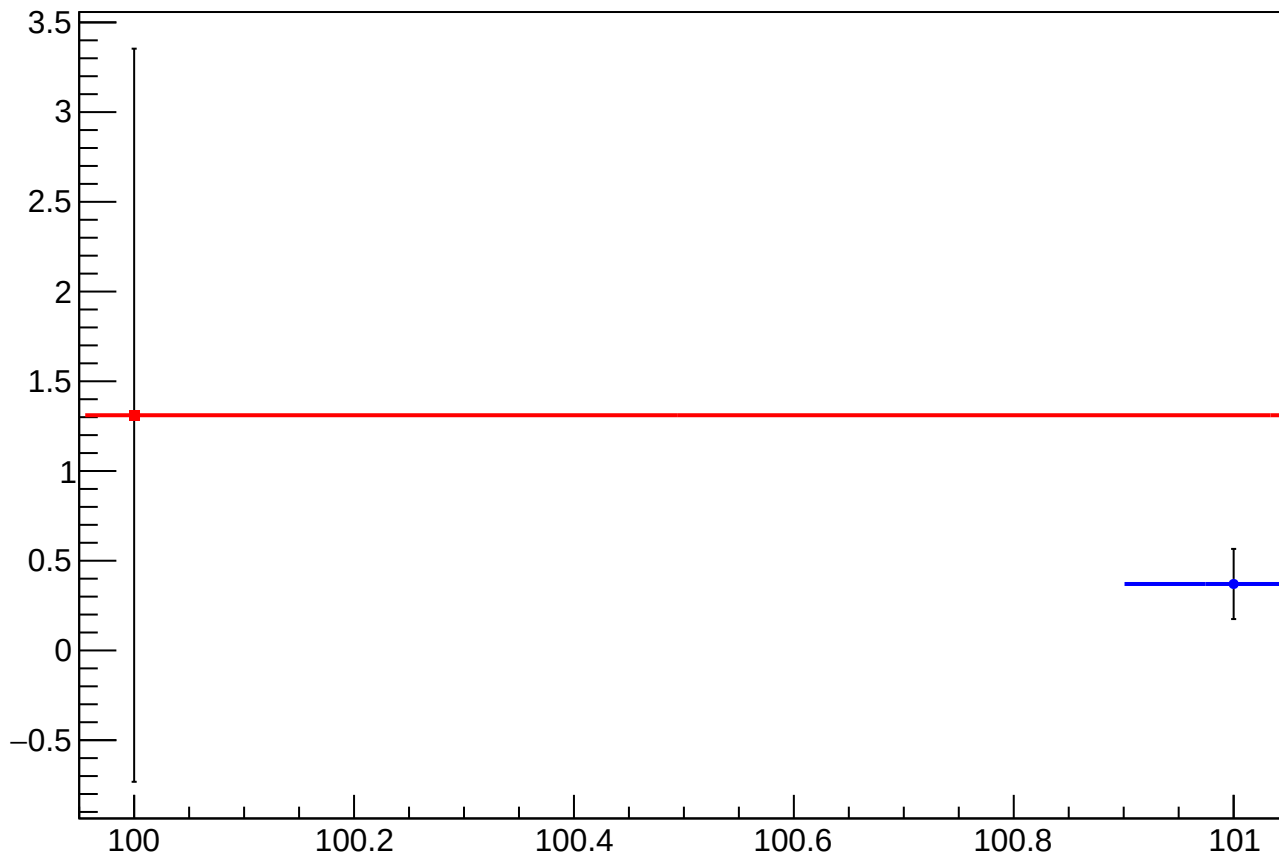
Right: 146.845+/-0.138  $\chi^2/\text{NDF}$ : 69711.4/1

In: 143.369+/-0.138  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 146.845+/-0.138  $\chi^2/\text{NDF}$ : 69711.4/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.370 $\pm$ 0.195  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.311 $\pm$ 2.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

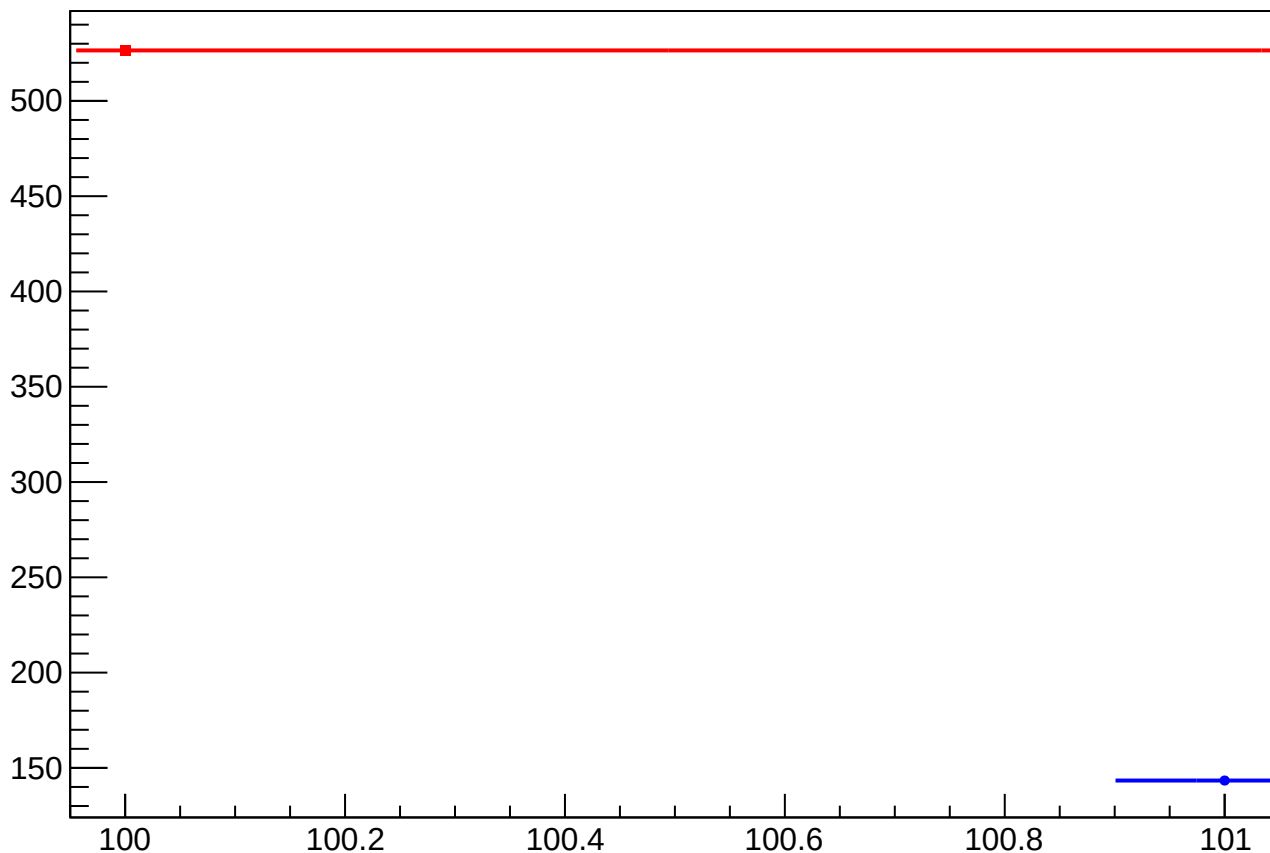
Right: 0.379 $\pm$ 0.195  $\chi^2$ /NDF: 0.2/1

In: 0.370 $\pm$ 0.195  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.379 $\pm$ 0.195  $\chi^2$ /NDF: 0.2/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 143.369 $\pm$ 0.138  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.488 $\pm$ 1.444  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

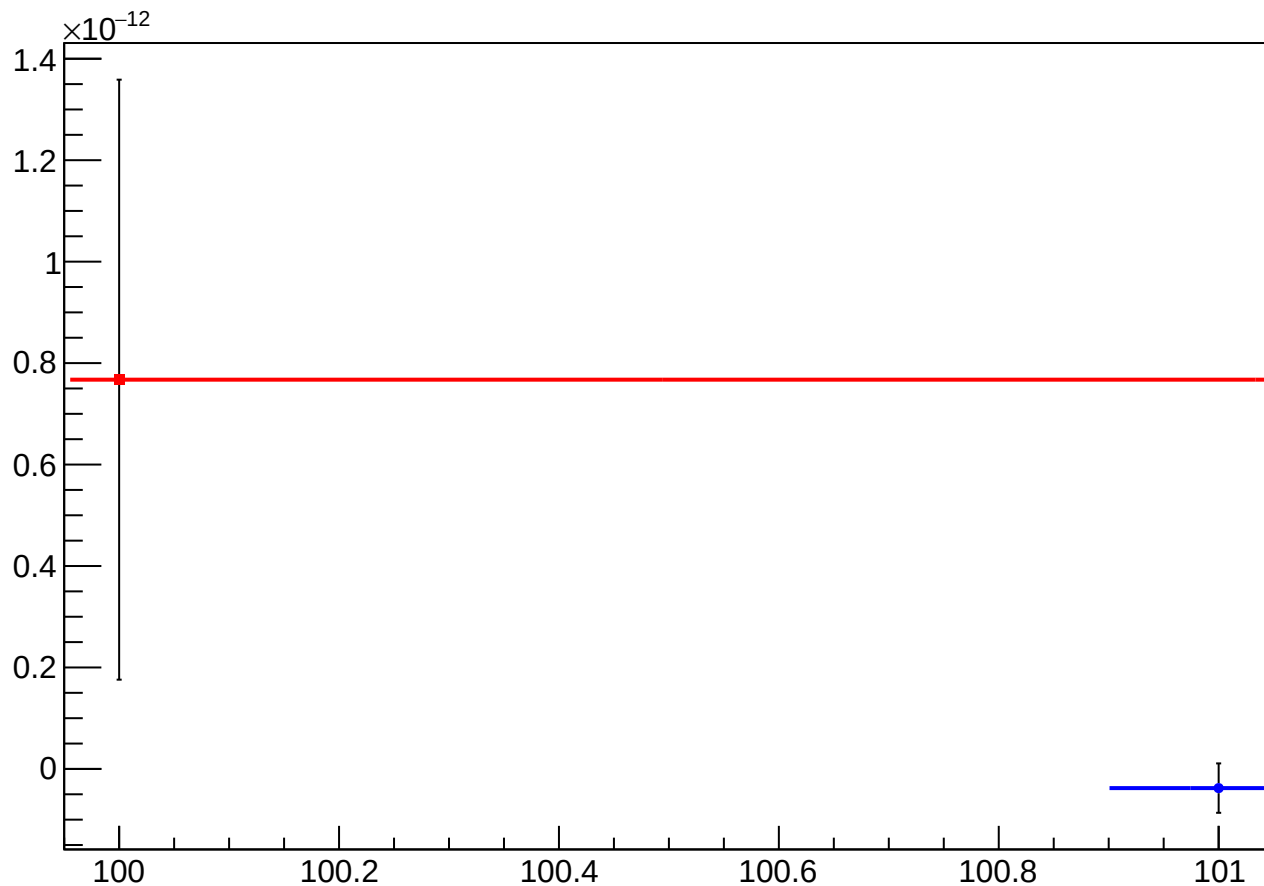
Right: 146.845 $\pm$ 0.138  $\chi^2$ /NDF: 69711.4/1

In: 143.369 $\pm$ 0.138  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146.845 $\pm$ 0.138  $\chi^2$ /NDF: 69711.4/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

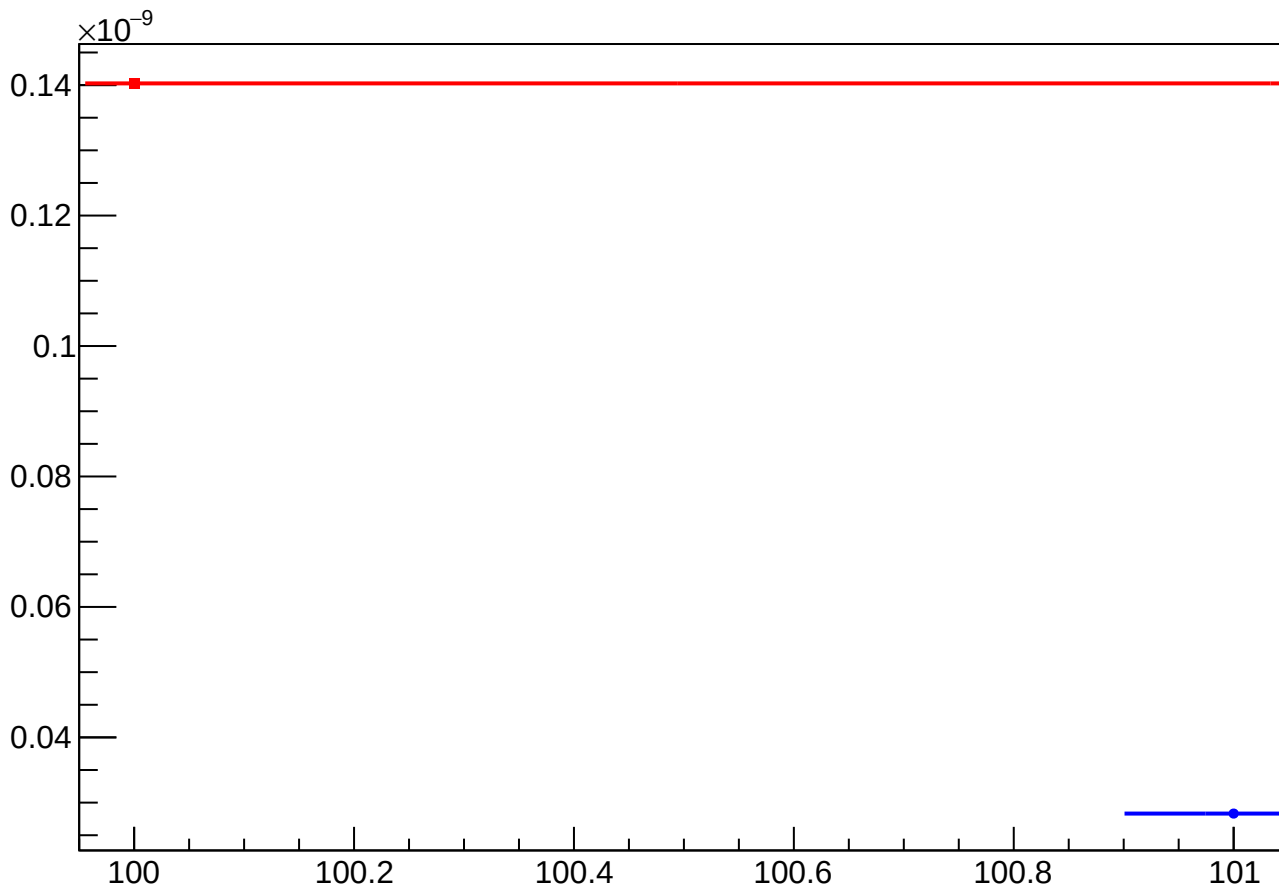
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.8/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.8/1

asym\_us\_dd\_at1lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 71173.5/1

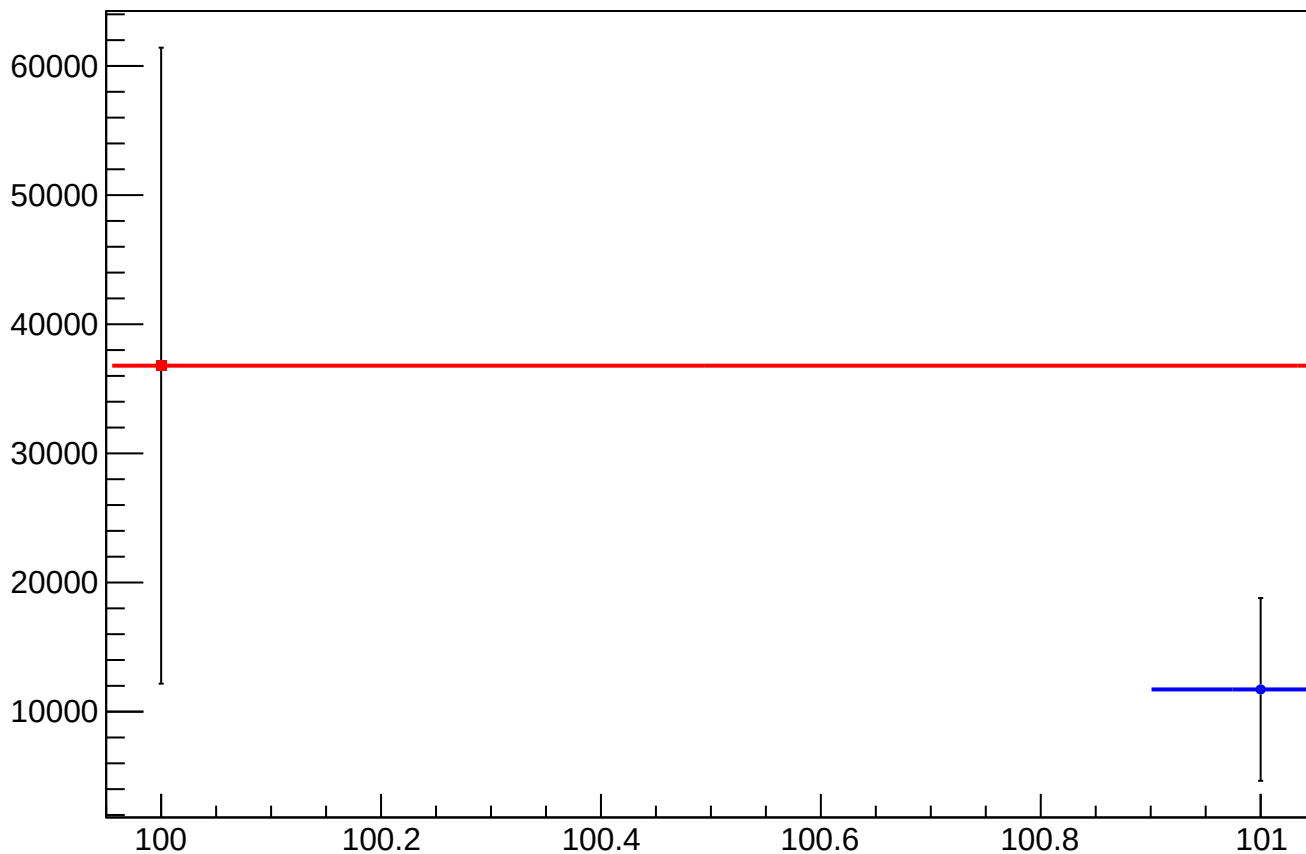
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 71173.5/1



reg\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 11721.385+/-7075.084  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36792.296+/-24624.361  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

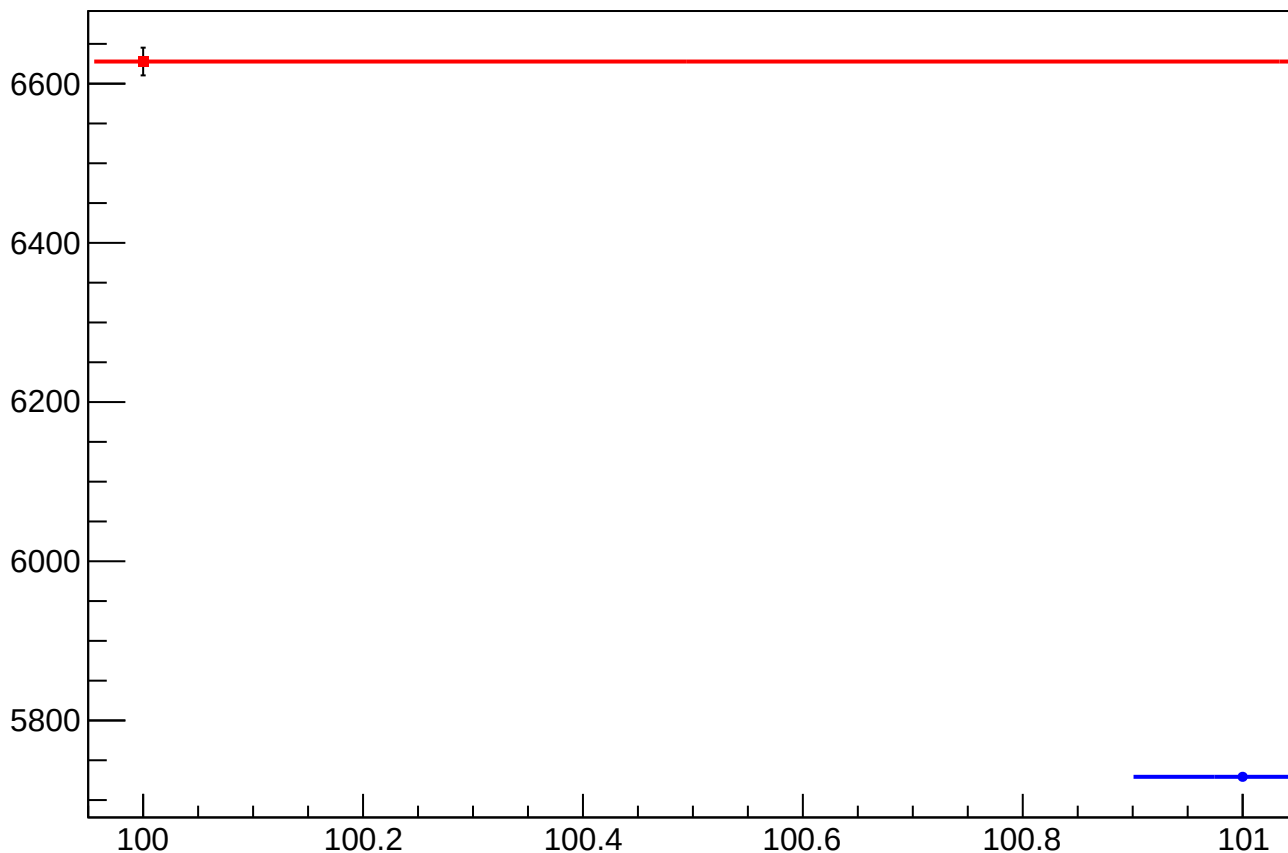
Right: 13633.237+/-6799.970  $\chi^2/\text{NDF}$ : 1.0/1

In: 11721.385+/-7075.084  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13633.237+/-6799.970  $\chi^2/\text{NDF}$ : 1.0/1

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 5729.205+/-5.003  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6627.816+/-17.412  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

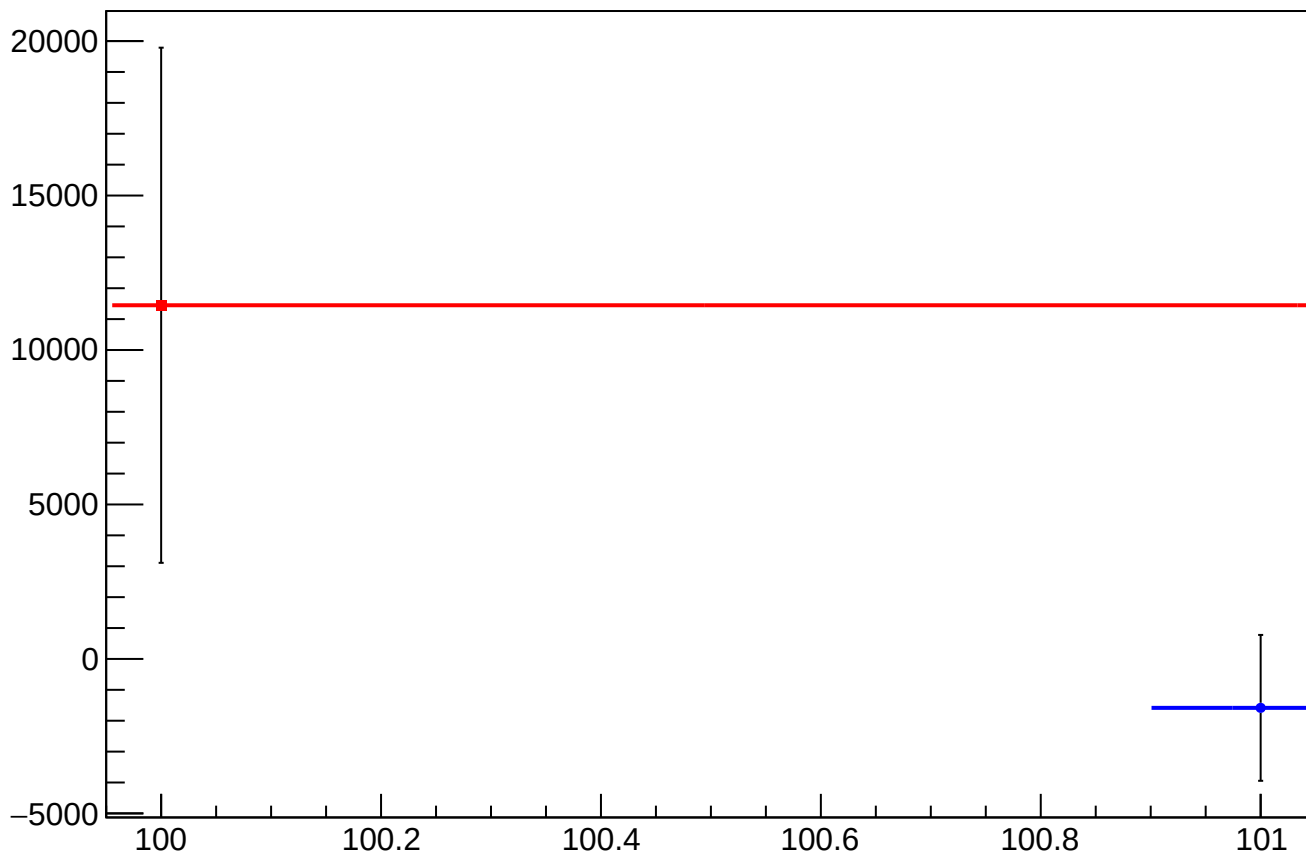
Right: 5797.731+/-4.808  $\chi^2/\text{NDF}$ : 2460.3/1

In: 5729.205+/-5.003  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5797.731+/-4.808  $\chi^2/\text{NDF}$ : 2460.3/1

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1583.851+/-2360.903  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11448.545+/-8337.945  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

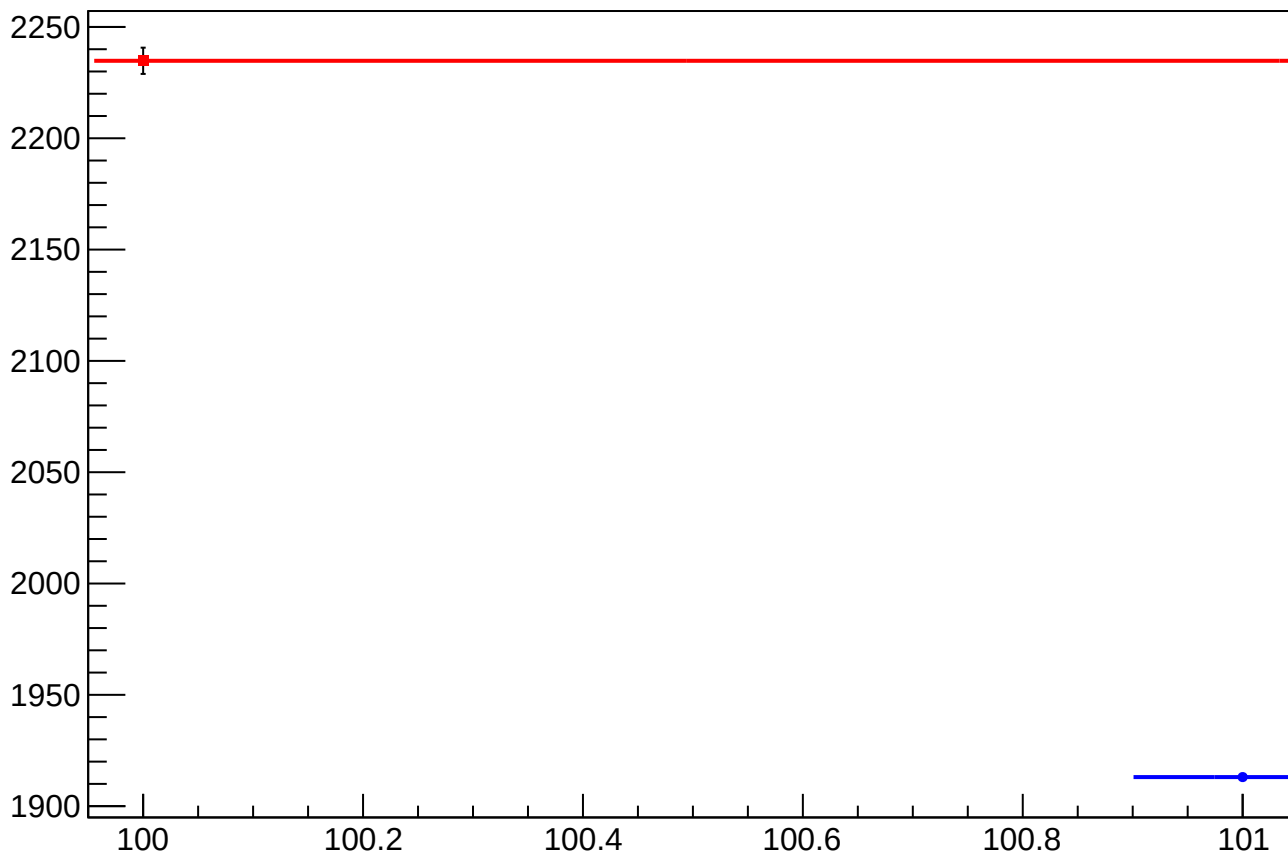
Right: -616.535+/-2271.596  $\chi^2/\text{NDF}$ : 2.3/1

In: -1583.851+/-2360.903  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -616.535+/-2271.596  $\chi^2/\text{NDF}$ : 2.3/1

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1913.058 $\pm$ 1.669  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2234.802 $\pm$ 5.896  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

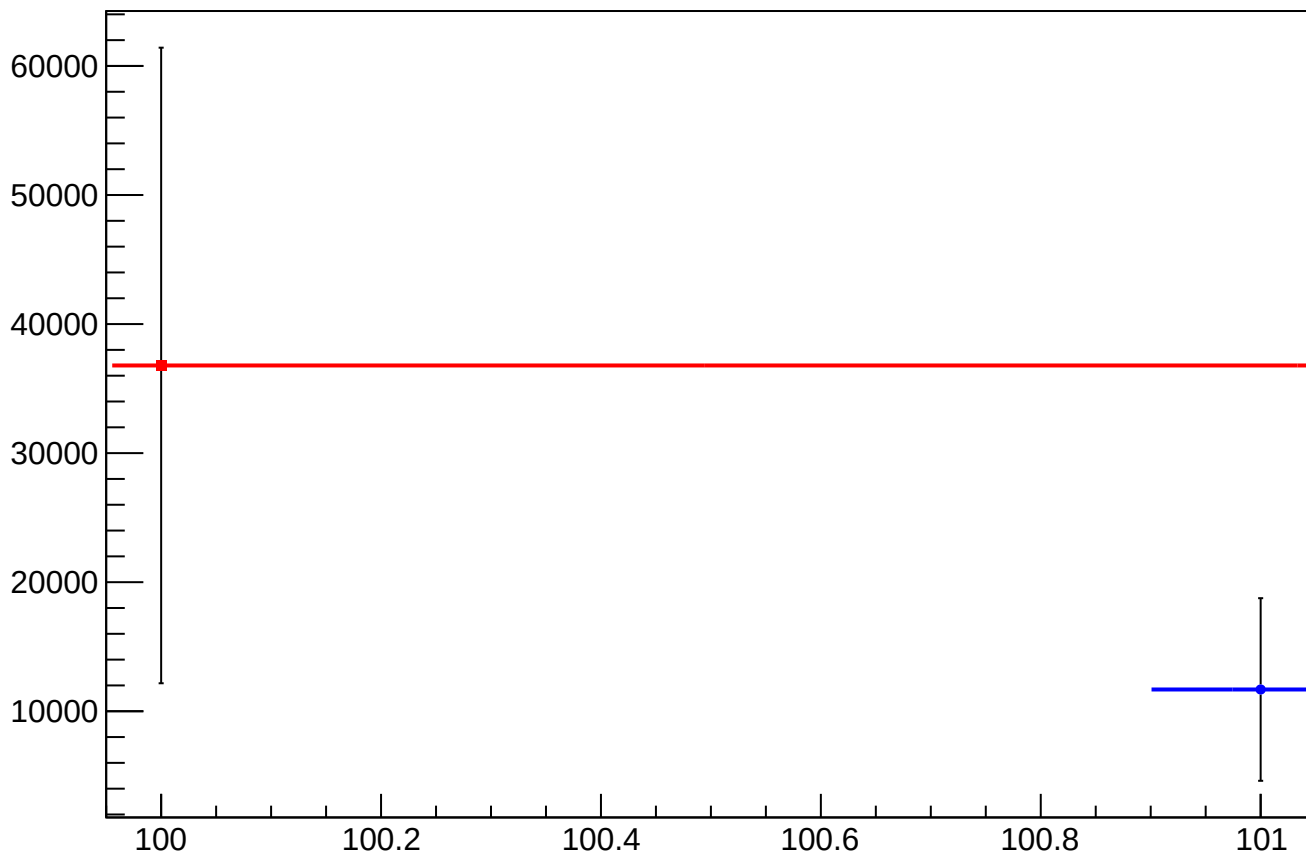
Right: 1936.939 $\pm$ 1.606  $\chi^2$ /NDF: 2757.0/1

In: 1913.058 $\pm$ 1.669  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1936.939 $\pm$ 1.606  $\chi^2$ /NDF: 2757.0/1

cor\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 11685.432+/-7075.114  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36792.240+/-24624.361  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

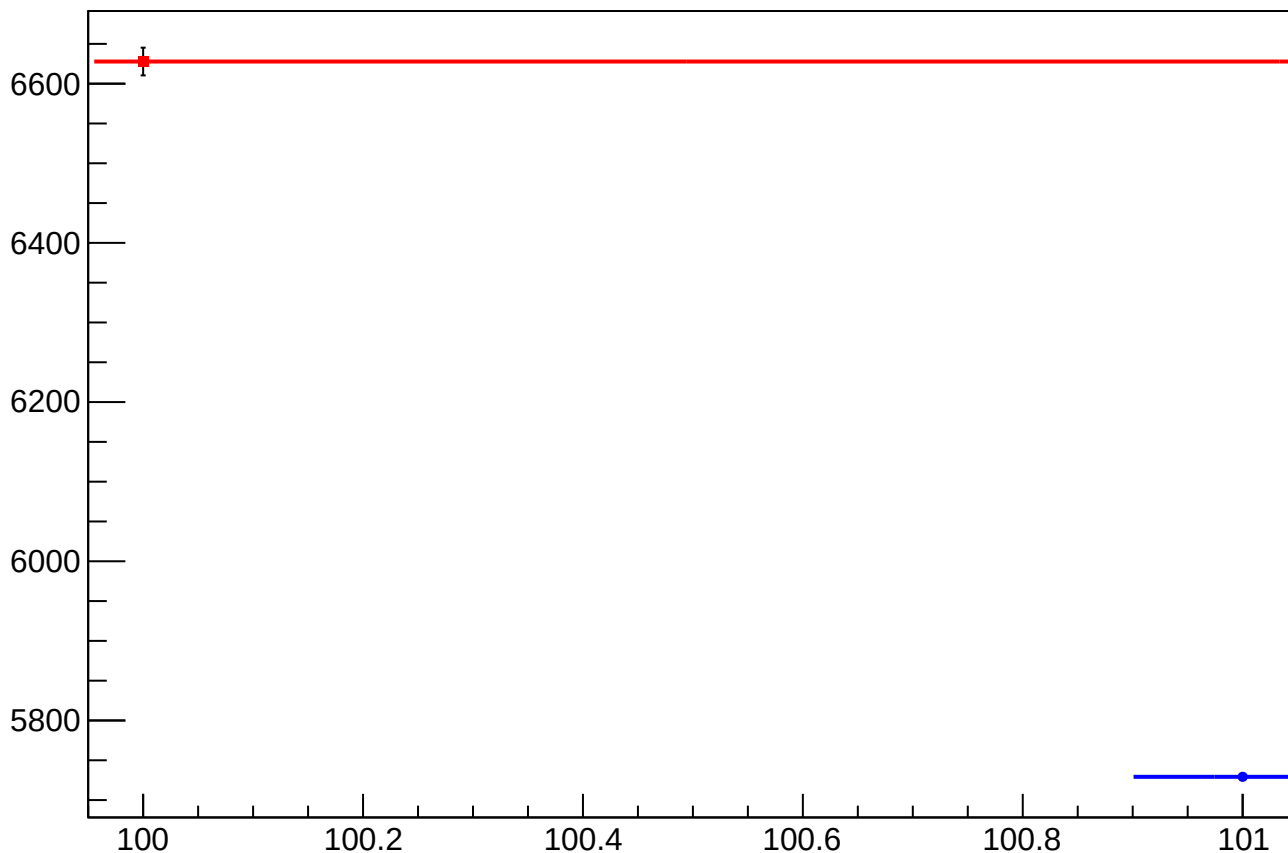
Right: 13600.036+/-6799.997  $\chi^2/\text{NDF}$ : 1.0/1

In: 11685.432+/-7075.114  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13600.036+/-6799.997  $\chi^2/\text{NDF}$ : 1.0/1

cor\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 5729.221+/-5.003  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6627.816+/-17.412  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

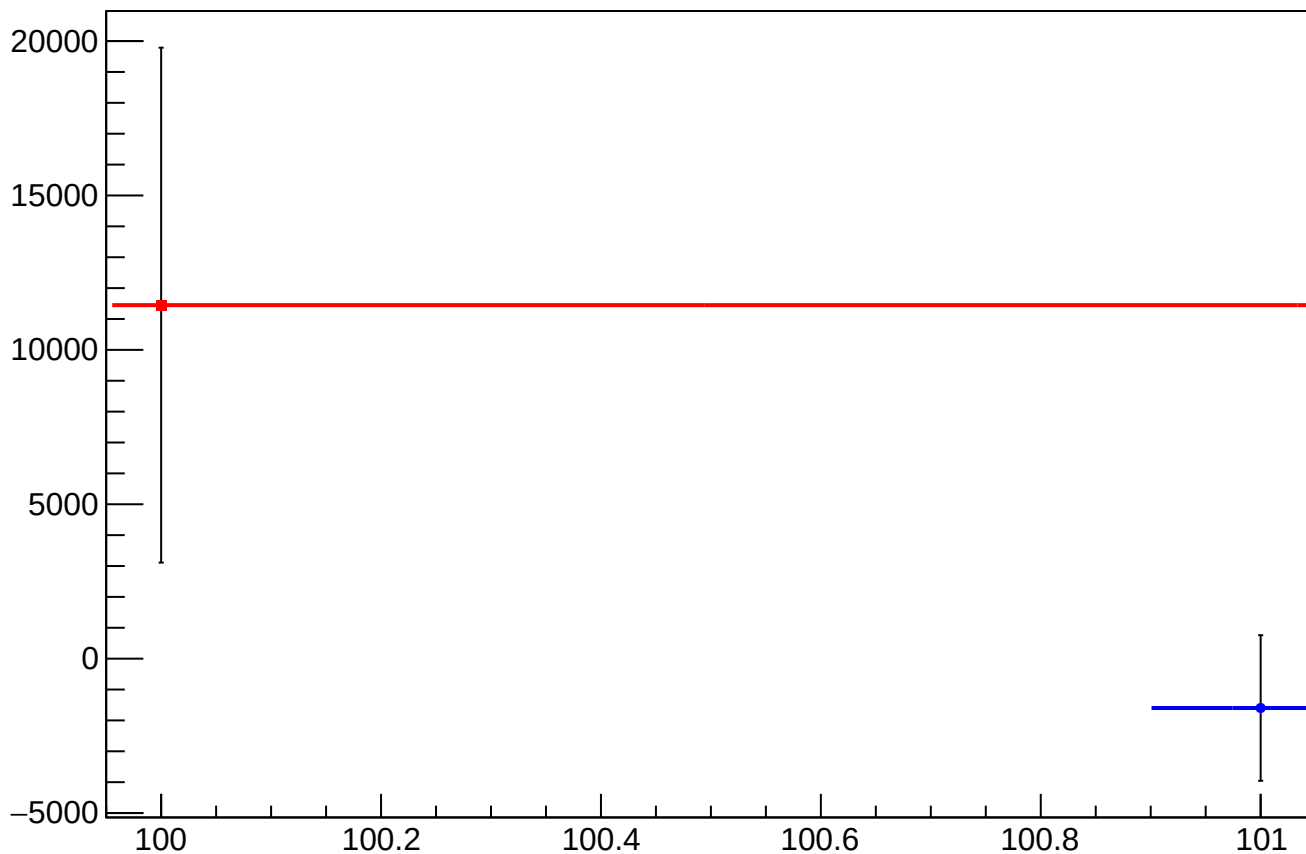
Right: 5797.746+/-4.808  $\chi^2/\text{NDF}$ : 2460.2/1

In: 5729.221+/-5.003  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5797.746+/-4.808  $\chi^2/\text{NDF}$ : 2460.2/1

asym\_us\_dd\_at1lr\_dd\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1597.769+/-2357.709  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11448.510+/-8337.942  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

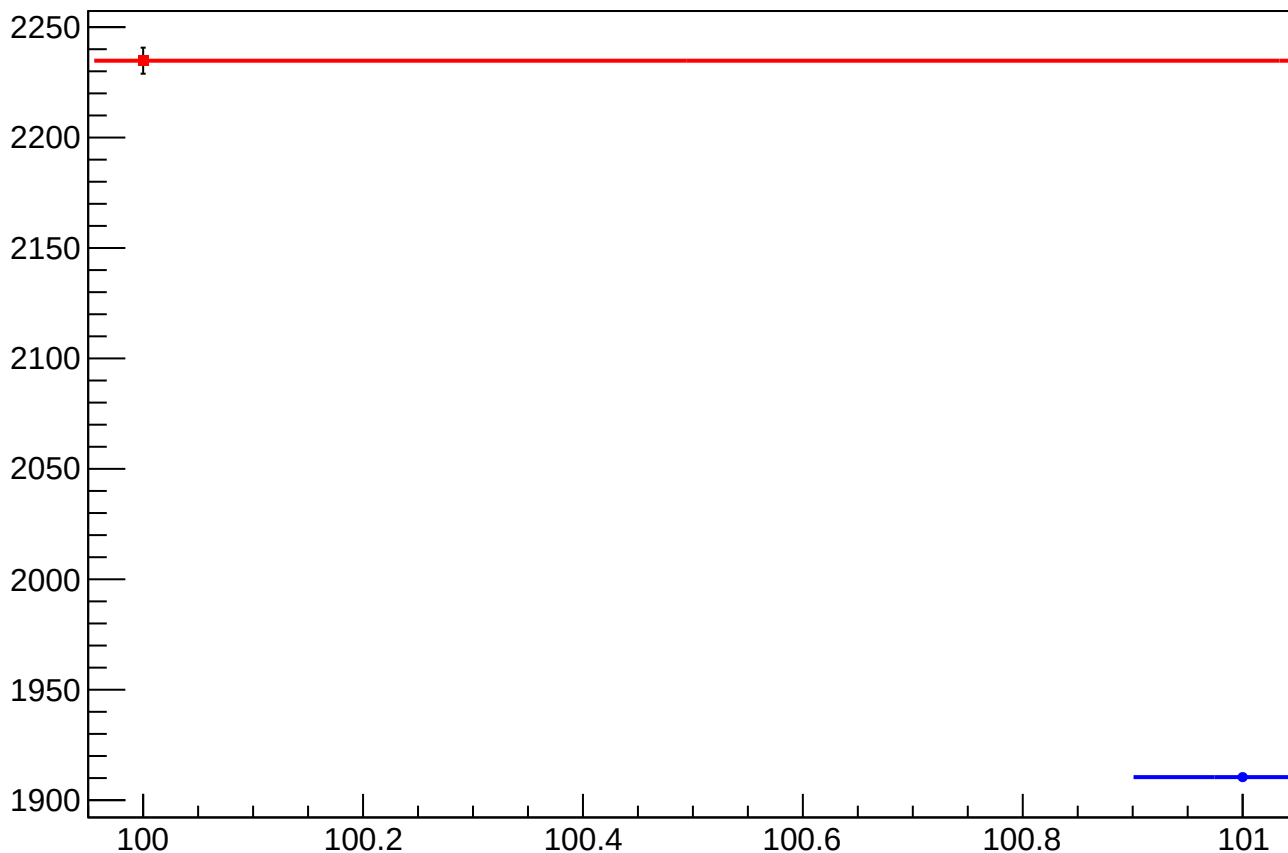
Right: -631.847+/-2268.750  $\chi^2/\text{NDF}$ : 2.3/1

In: -1597.769+/-2357.709  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -631.847+/-2268.750  $\chi^2/\text{NDF}$ : 2.3/1

asym\_us\_dd\_at1lr\_dd\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1910.434 $\pm$ 1.667  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2234.801 $\pm$ 5.896  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1934.449 $\pm$ 1.604  $\chi^2$ /NDF: 2802.7/1

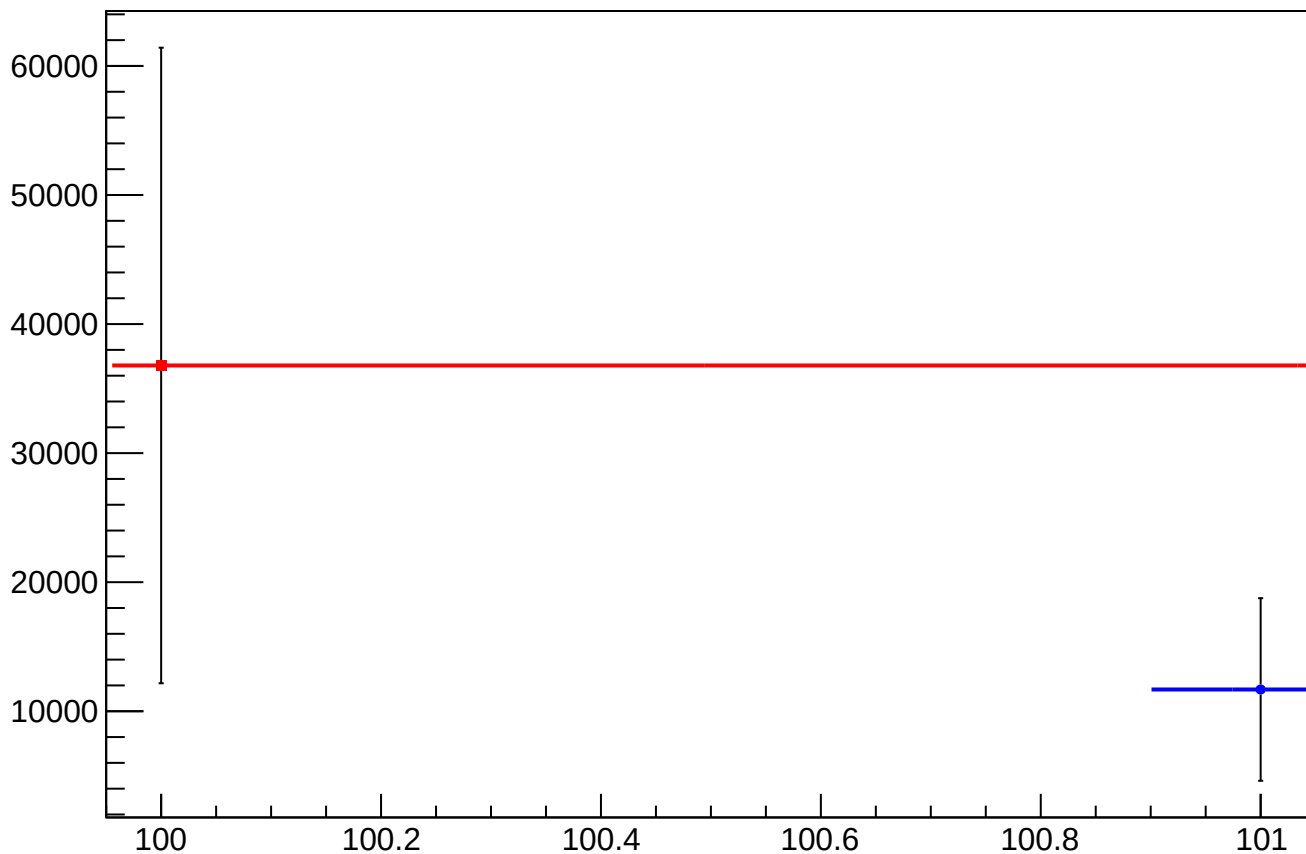
In: 1910.434 $\pm$ 1.667  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1934.449 $\pm$ 1.604  $\chi^2$ /NDF: 2802.7/1



eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 11685.432+/-7075.114  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36792.240+/-24624.361  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

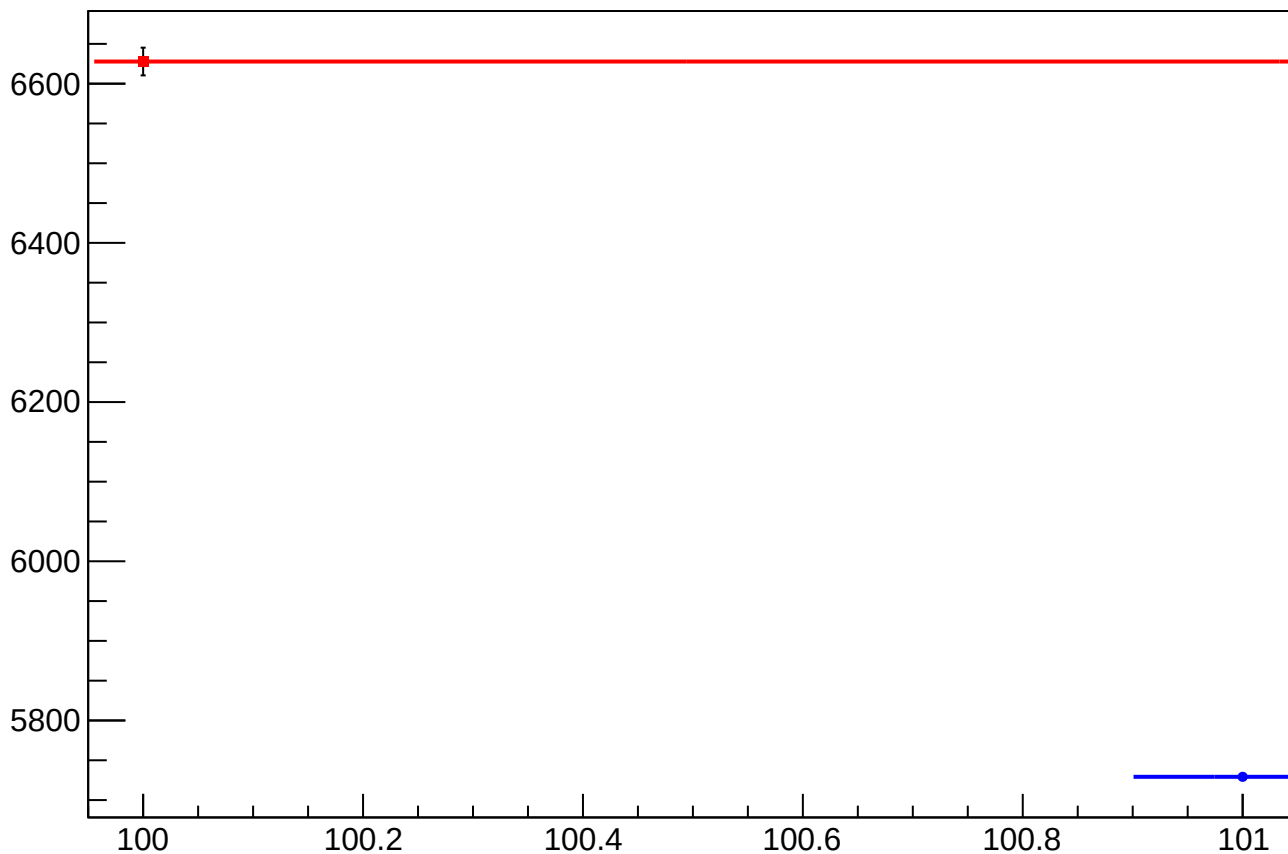
Right: 13600.036+/-6799.997  $\chi^2/\text{NDF}$ : 1.0/1

In: 11685.432+/-7075.114  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13600.036+/-6799.997  $\chi^2/\text{NDF}$ : 1.0/1

eigen\_cor\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 5729.221+/-5.003  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6627.816+/-17.412  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

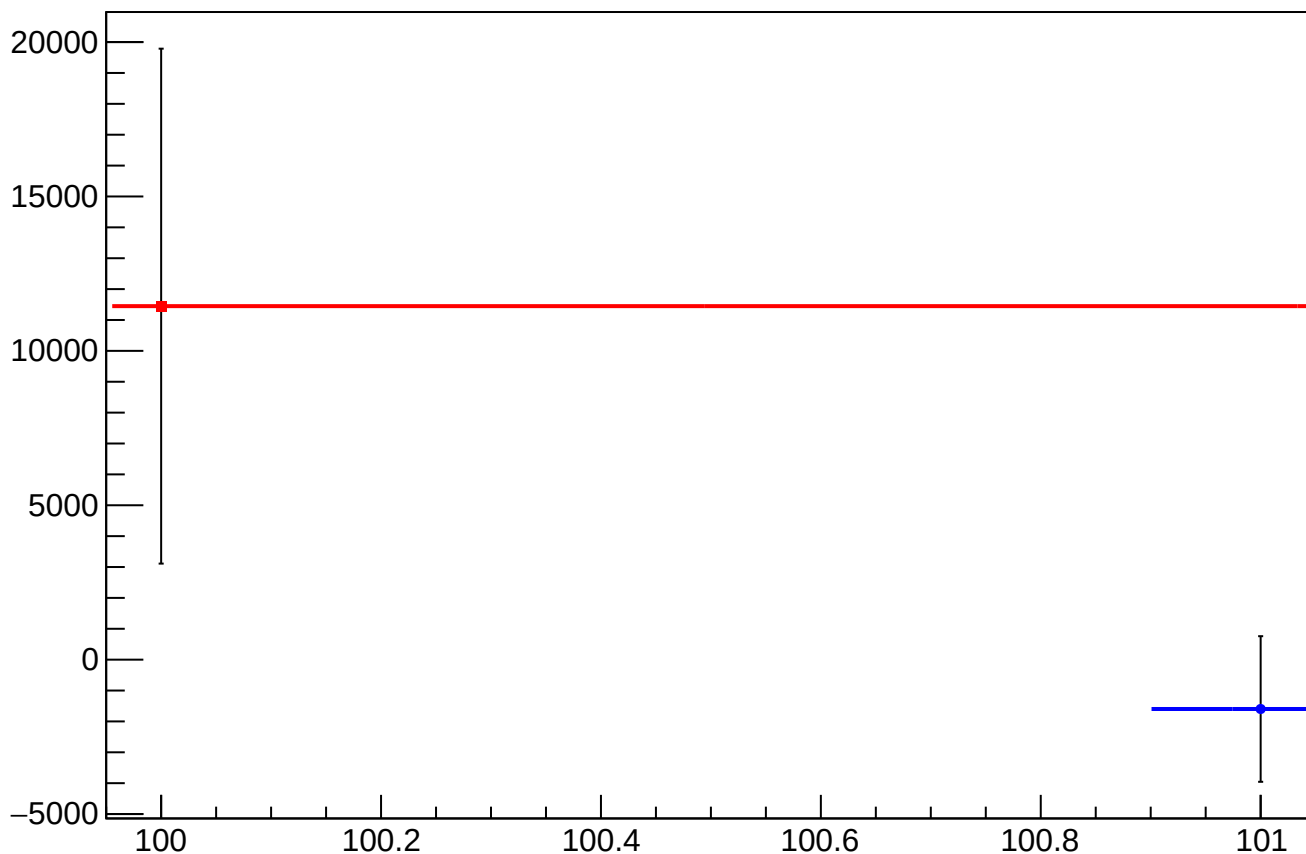
Right: 5797.746+/-4.808  $\chi^2/\text{NDF}$ : 2460.2/1

In: 5729.221+/-5.003  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5797.746+/-4.808  $\chi^2/\text{NDF}$ : 2460.2/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1597.769+/-2357.709  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11448.510+/-8337.942  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

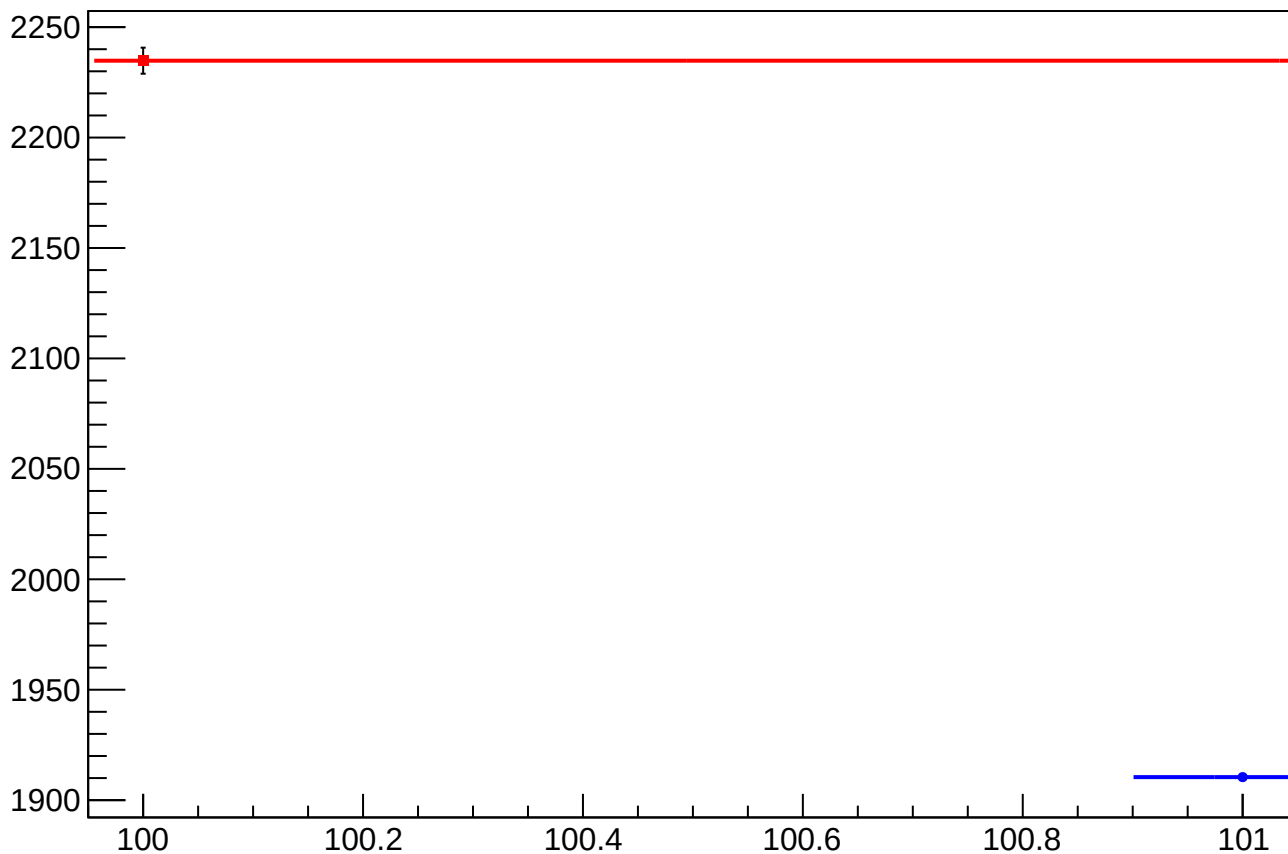
Right: -631.847+/-2268.750  $\chi^2/\text{NDF}$ : 2.3/1

In: -1597.769+/-2357.709  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -631.847+/-2268.750  $\chi^2/\text{NDF}$ : 2.3/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1910.434 $\pm$ 1.667  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2234.801 $\pm$ 5.896  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

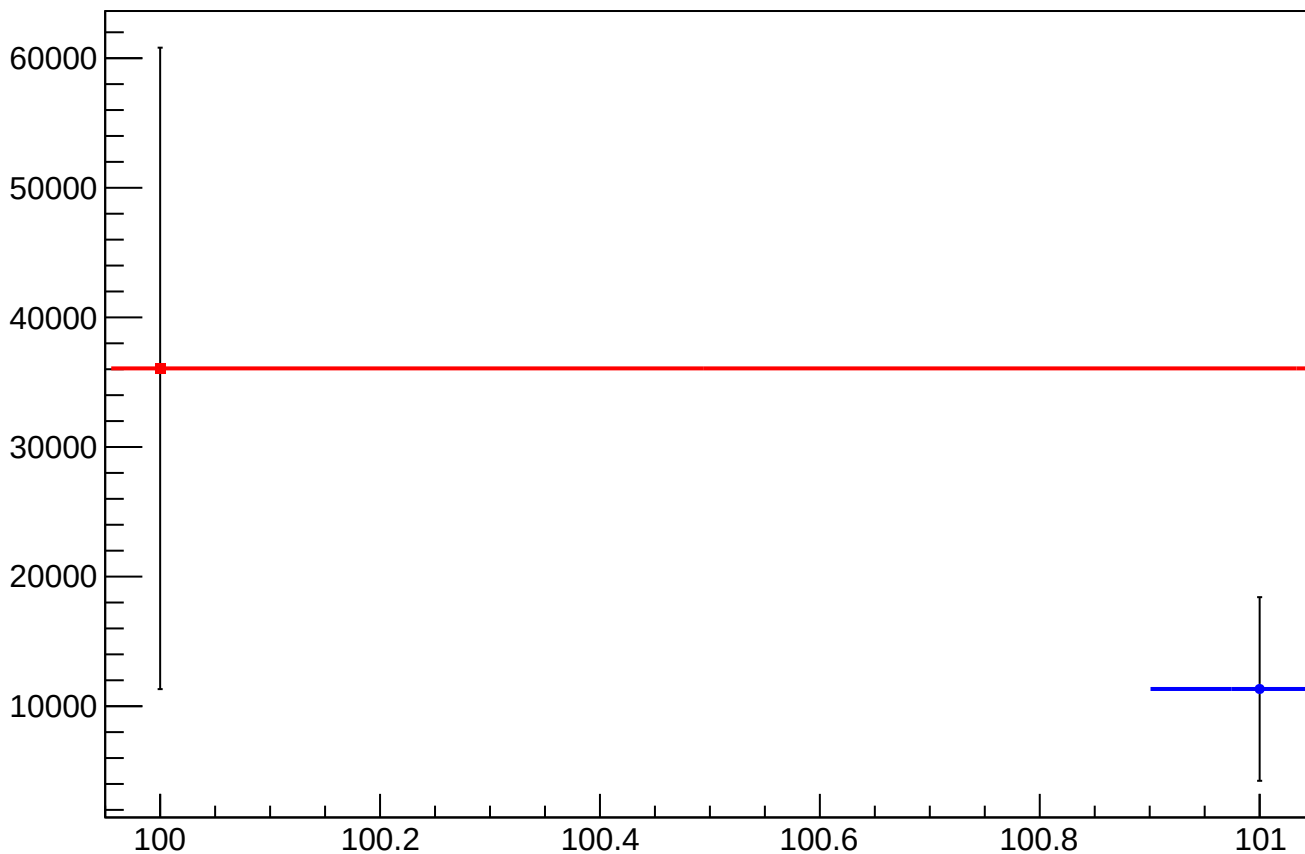
Right: 1934.449 $\pm$ 1.604  $\chi^2$ /NDF: 2802.7/1

In: 1910.434 $\pm$ 1.667  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1934.449 $\pm$ 1.604  $\chi^2$ /NDF: 2802.7/1

dit\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 11328.905 $\pm$ 7084.830  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 36064.908 $\pm$ 24747.054  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

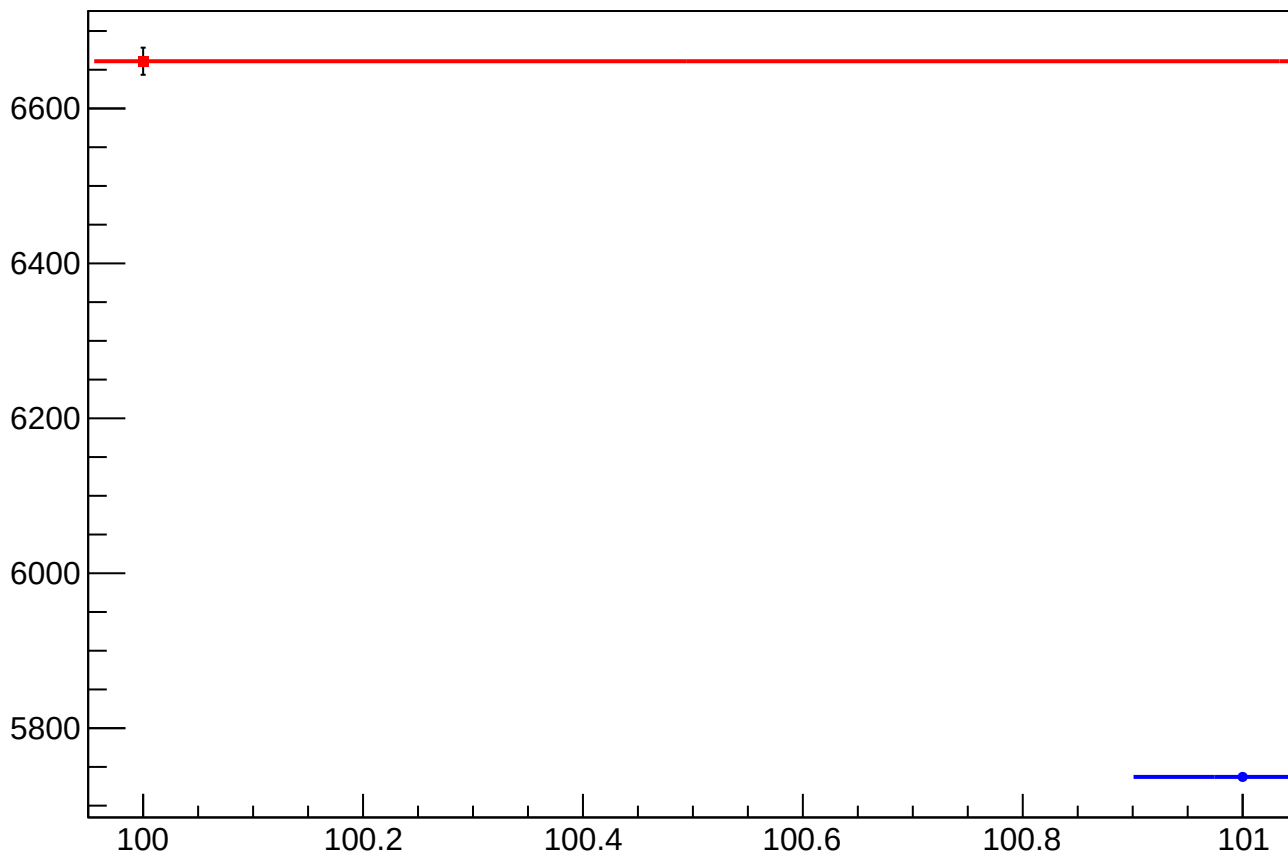
Right: 13202.732 $\pm$ 6811.197  $\chi^2$ /NDF: 0.9/1

In: 11328.905 $\pm$ 7084.830  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 13202.732 $\pm$ 6811.197  $\chi^2$ /NDF: 0.9/1

# dit\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 5737.086 $\pm$ 5.010  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6660.999 $\pm$ 17.499  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

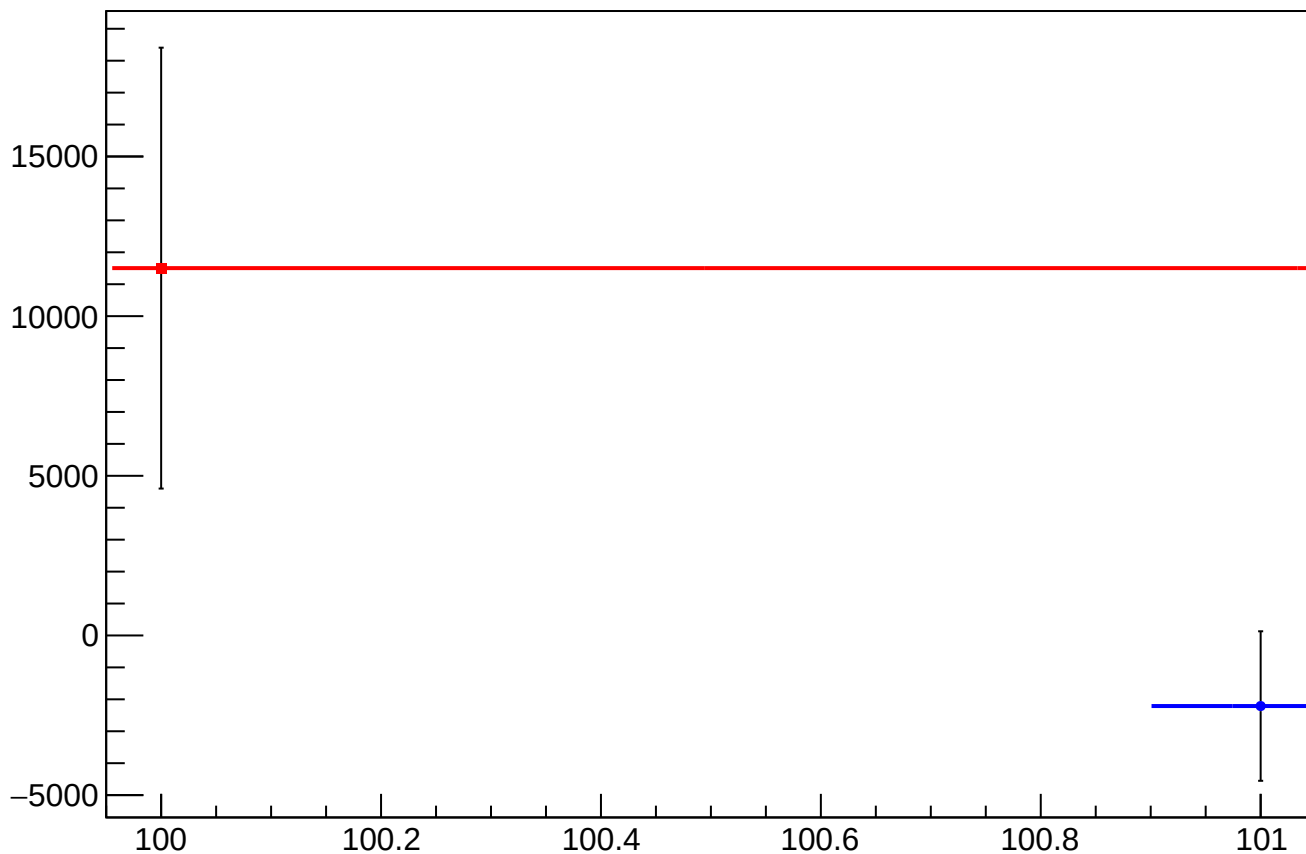
Right: 5807.075 $\pm$ 4.816  $\chi^2$ /NDF: 2576.5/1

In: 5737.086 $\pm$ 5.010  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5807.075 $\pm$ 4.816  $\chi^2$ /NDF: 2576.5/1

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2210.310+/-2341.223  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11504.183+/-6903.834  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

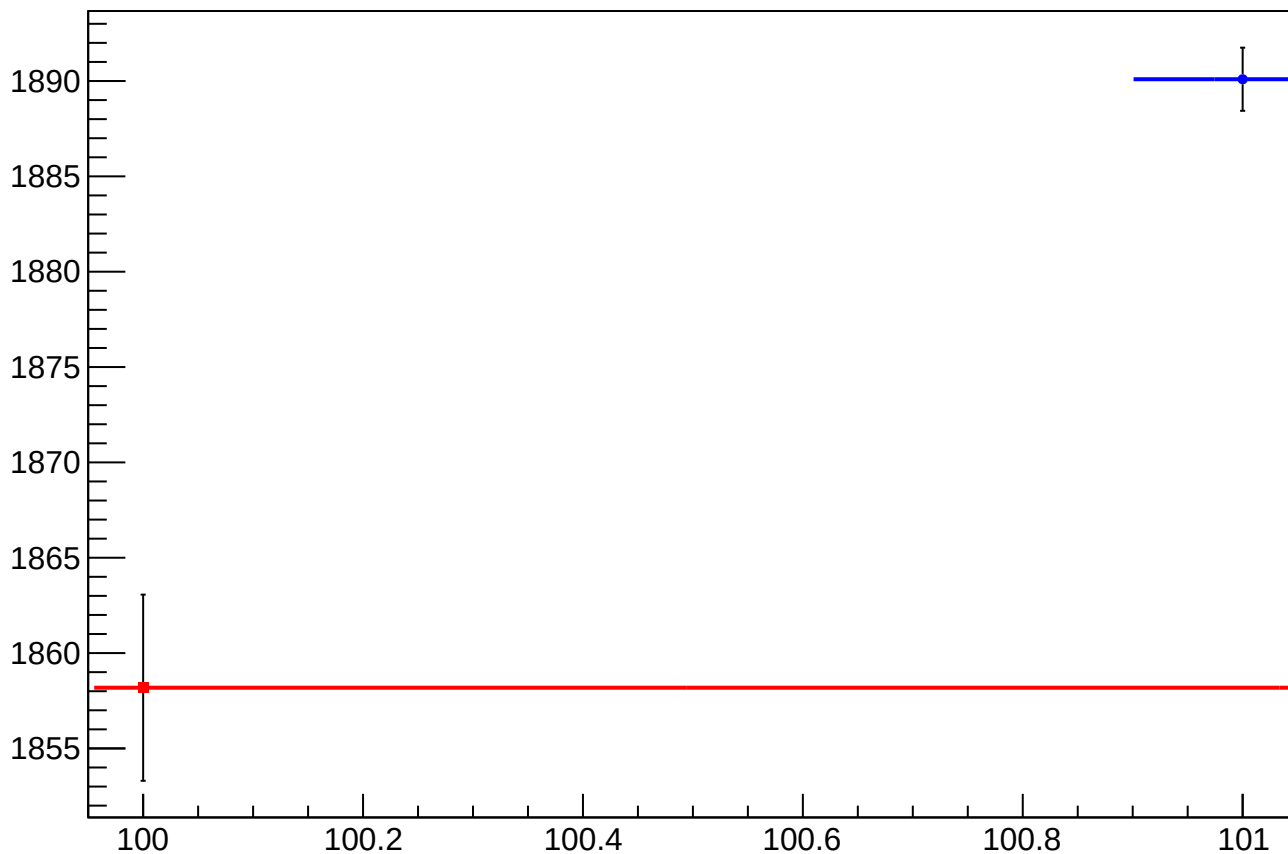
Right: -795.790+/-2217.201  $\chi^2/\text{NDF}$ : 3.5/1

In: -2210.310+/-2341.223  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -795.790+/-2217.201  $\chi^2/\text{NDF}$ : 3.5/1

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1890.093 $\pm$ 1.655  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1858.184 $\pm$ 4.882  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1886.802 $\pm$ 1.568  $\chi^2$ /NDF: 38.3/1

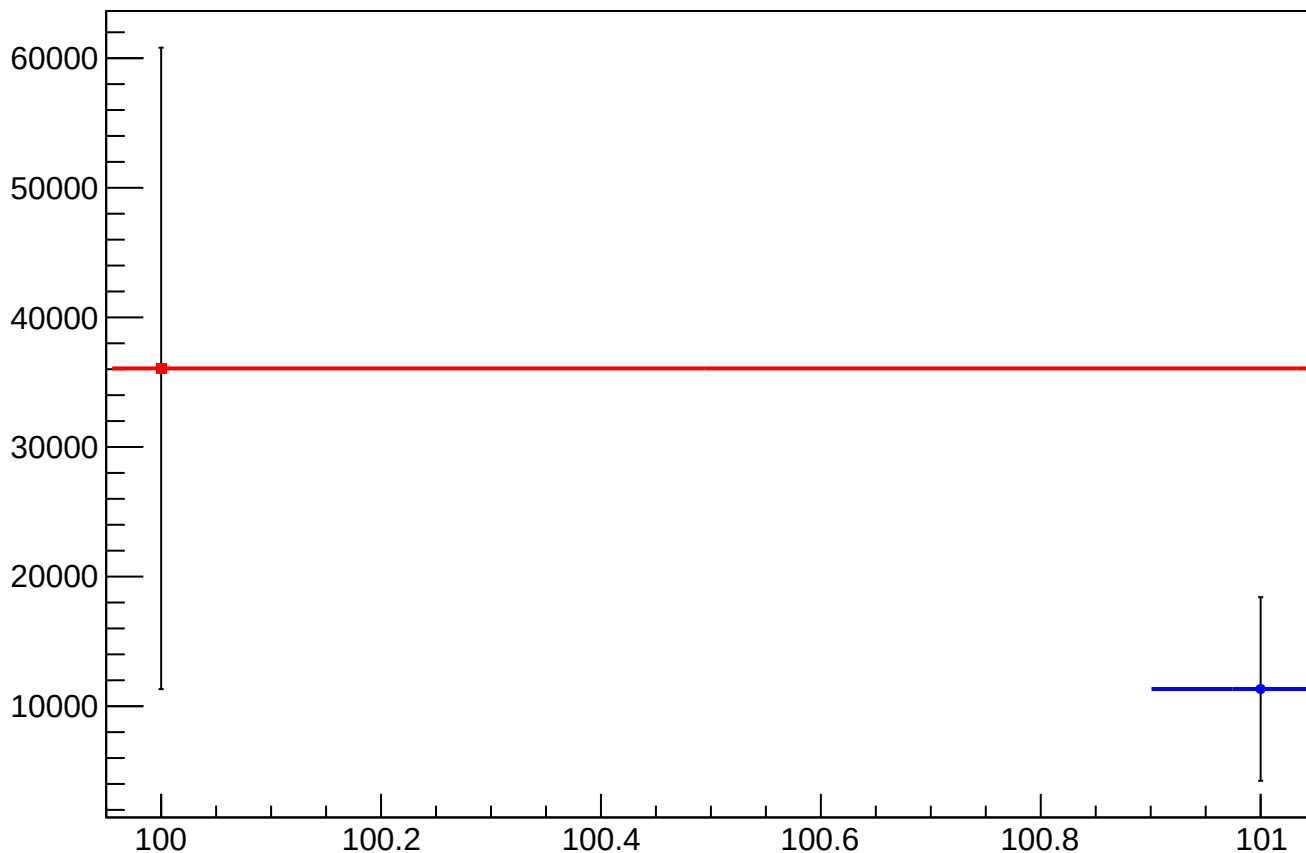
In: 1890.093 $\pm$ 1.655  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1886.802 $\pm$ 1.568  $\chi^2$ /NDF: 38.3/1



eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 11328.914 $\pm$ 7084.830  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 36064.881 $\pm$ 24747.054  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

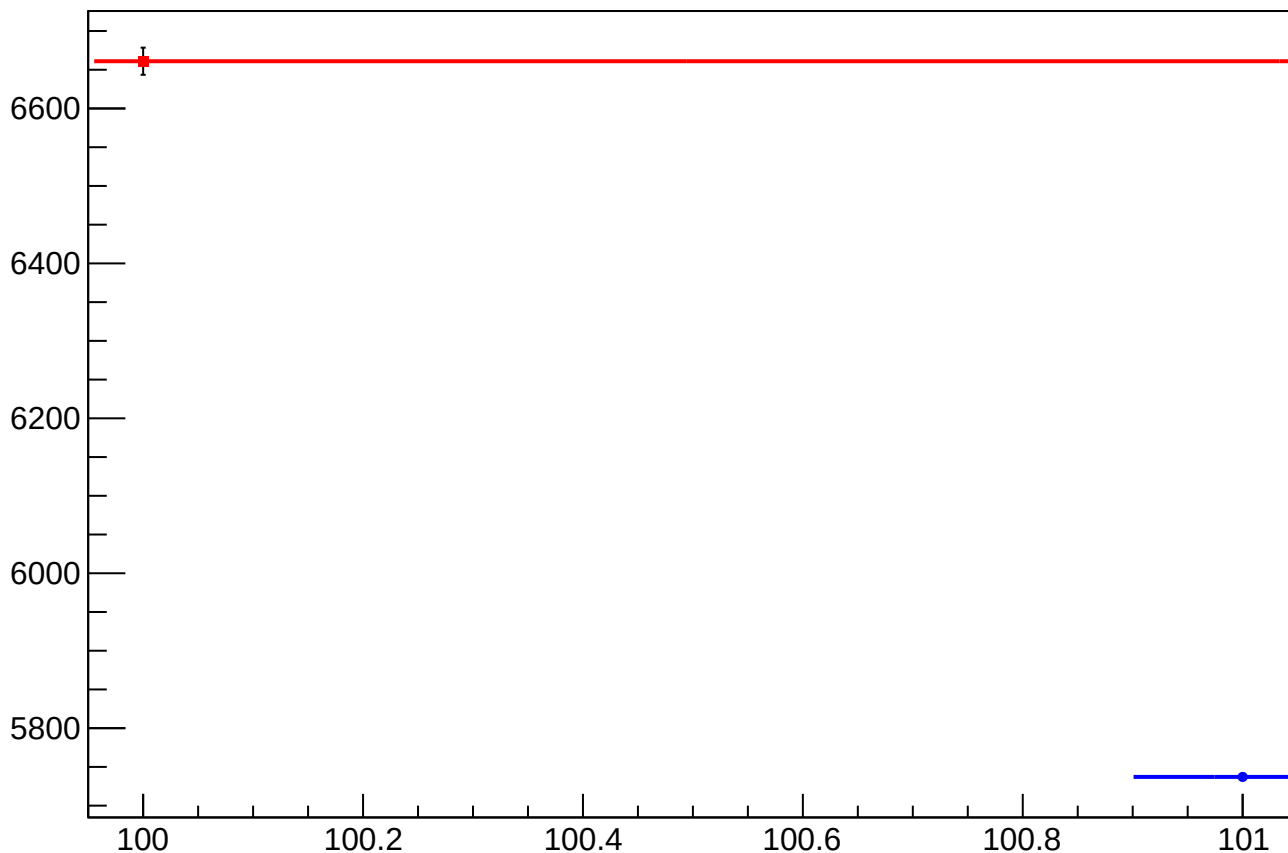
Right: 13202.738 $\pm$ 6811.197  $\chi^2$ /NDF: 0.9/1

In: 11328.914 $\pm$ 7084.830  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 13202.738 $\pm$ 6811.197  $\chi^2$ /NDF: 0.9/1

eigen\_dit\_asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 5737.086+/-5.010  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6660.999+/-17.499  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

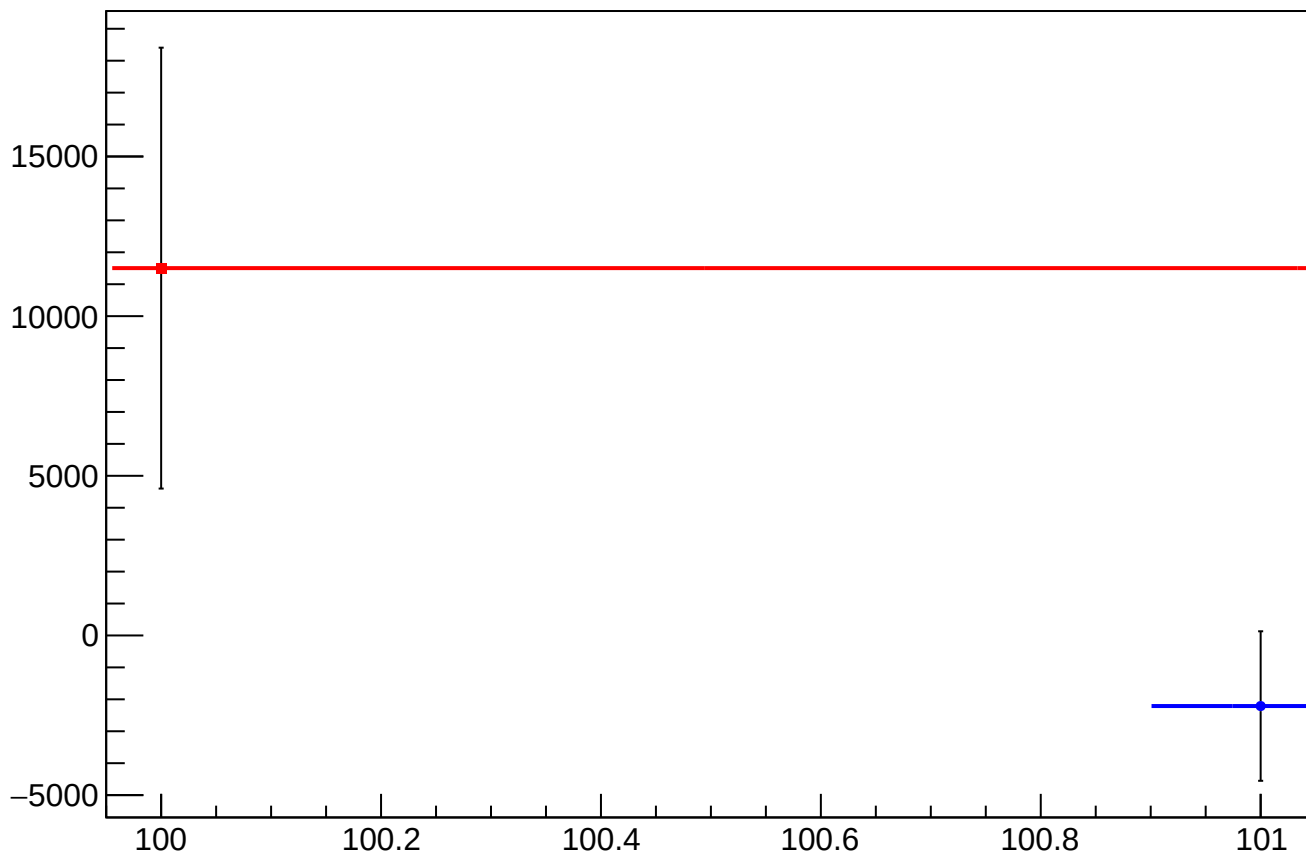
Right: 5807.075+/-4.816  $\chi^2/\text{NDF}$ : 2576.5/1

In: 5737.086+/-5.010  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5807.075+/-4.816  $\chi^2/\text{NDF}$ : 2576.5/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2210.304+/-2341.220  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11504.155+/-6903.823  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

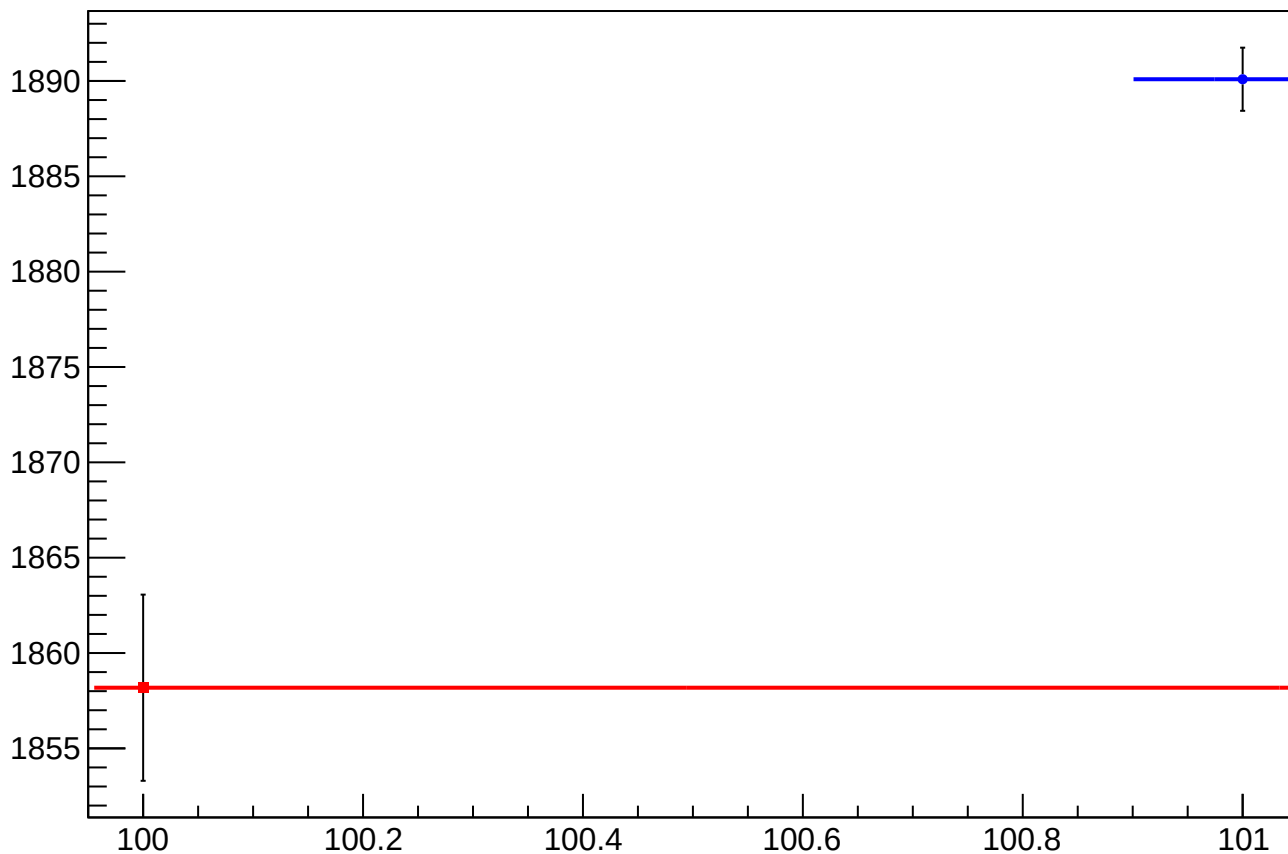
Right: -795.787+/-2217.198  $\chi^2/\text{NDF}$ : 3.5/1

In: -2210.304+/-2341.220  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -795.787+/-2217.198  $\chi^2/\text{NDF}$ : 3.5/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1890.090+/-1.655  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1858.181+/-4.882  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

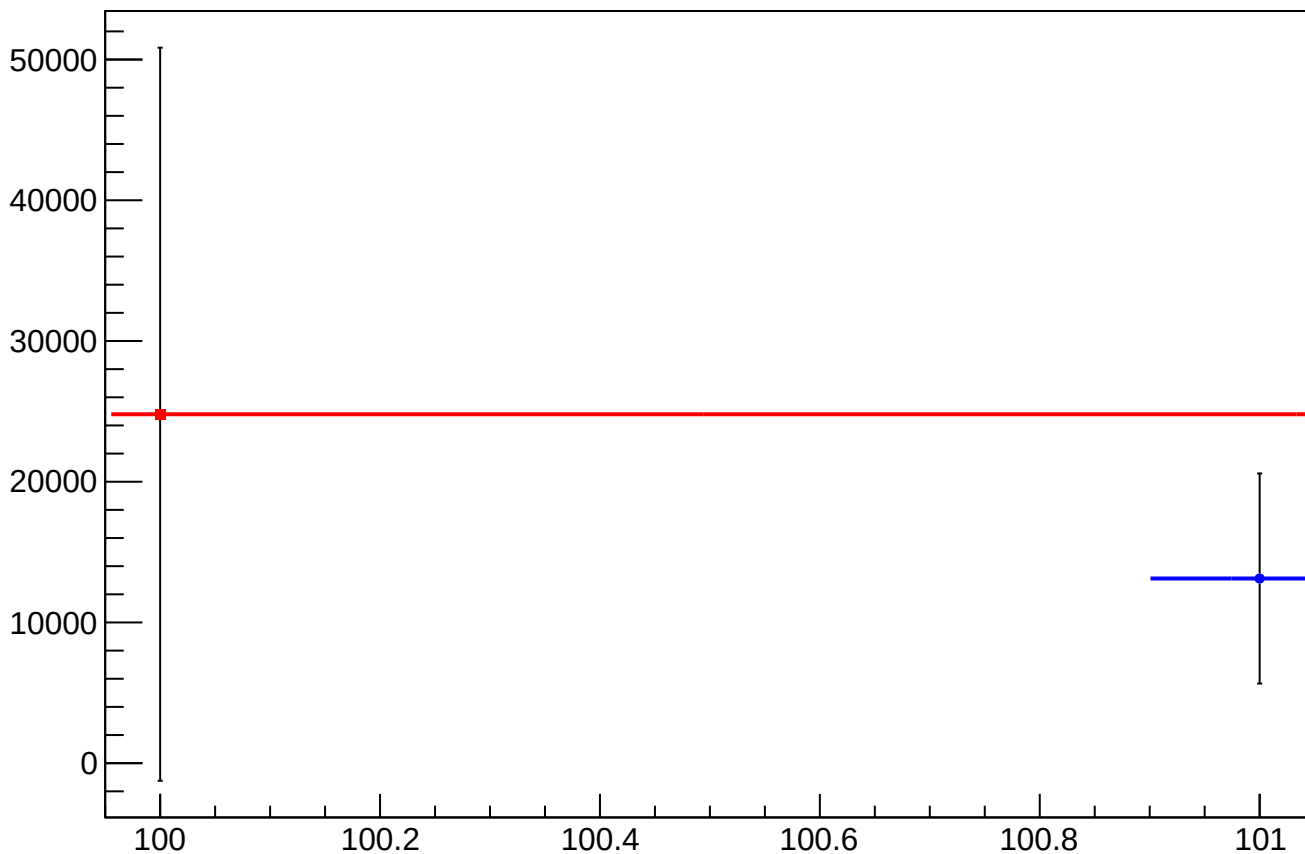
Right: 1886.799+/-1.568  $\chi^2/\text{NDF}$ : 38.3/1

In: 1890.090+/-1.655  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1886.799+/-1.568  $\chi^2/\text{NDF}$ : 38.3/1

asym\_us\_dd\_at1lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 13123.075+/-7464.380  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24796.060+/-26047.308  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

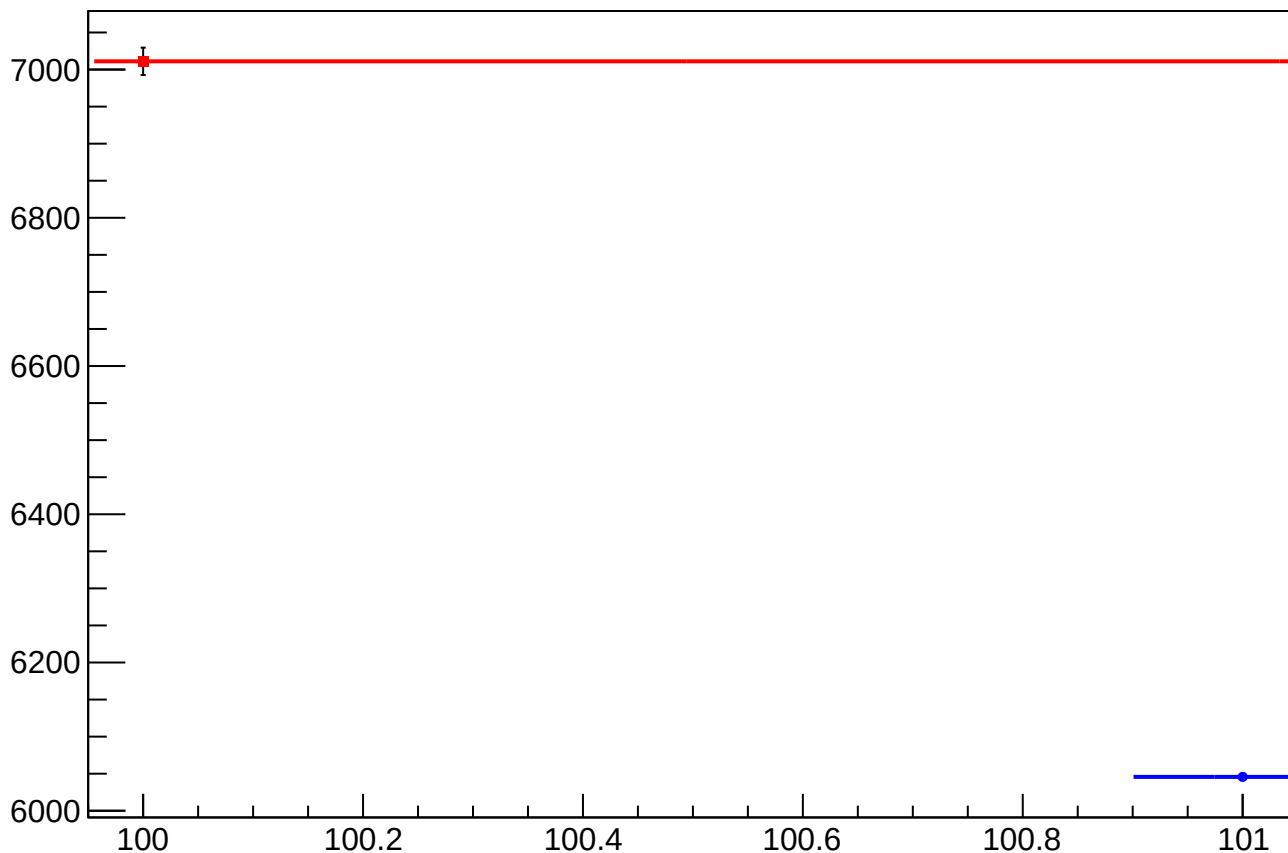
Right: 14008.939+/-7175.556  $\chi^2/\text{NDF}$ : 0.2/1

In: 13123.075+/-7464.380  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14008.939+/-7175.556  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_dd\_at1lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 6045.684+/-5.278  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7011.098+/-18.418  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

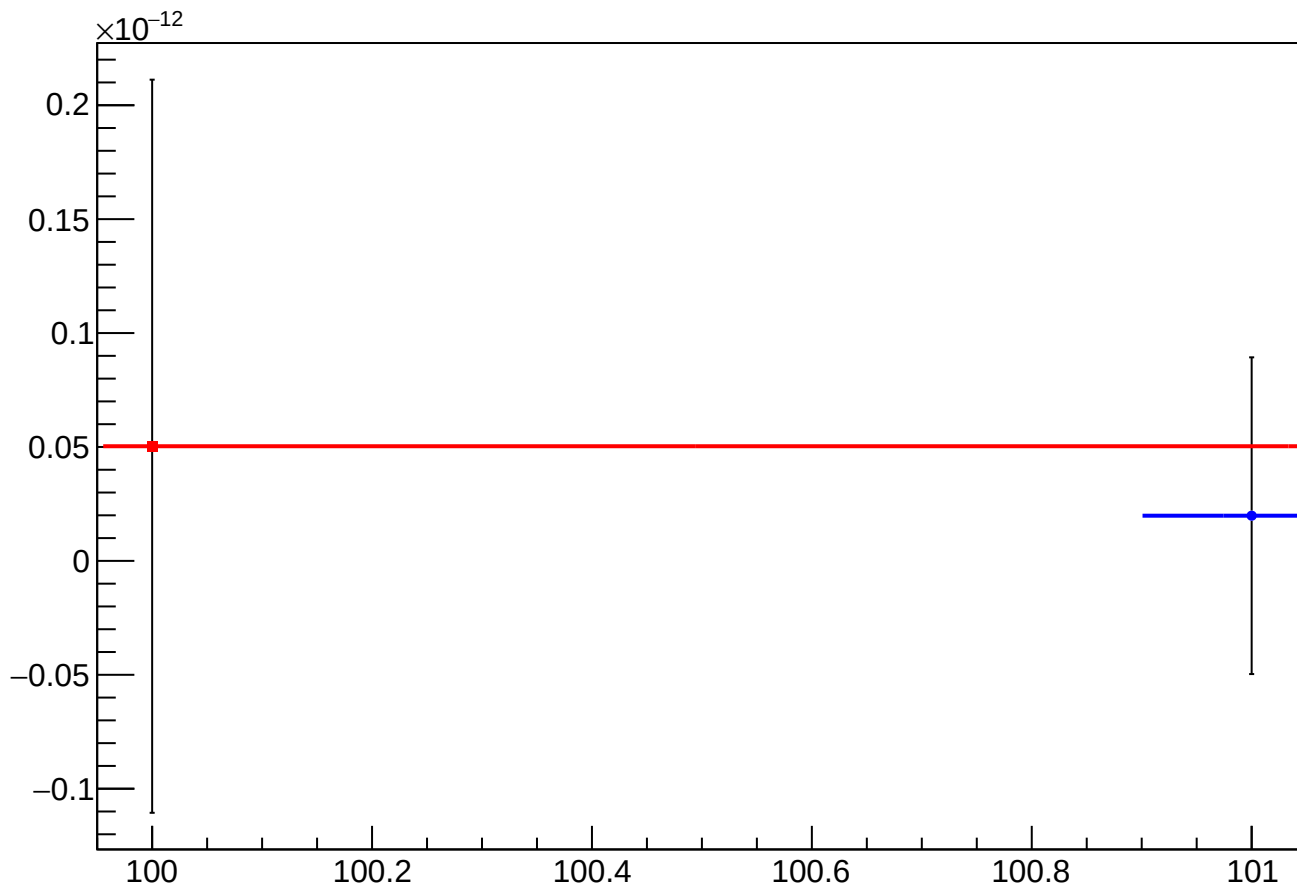
Right: 6118.949+/-5.074  $\chi^2/\text{NDF}$ : 2539.0/1

In: 6045.684+/-5.278  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6118.949+/-5.074  $\chi^2/\text{NDF}$ : 2539.0/1

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

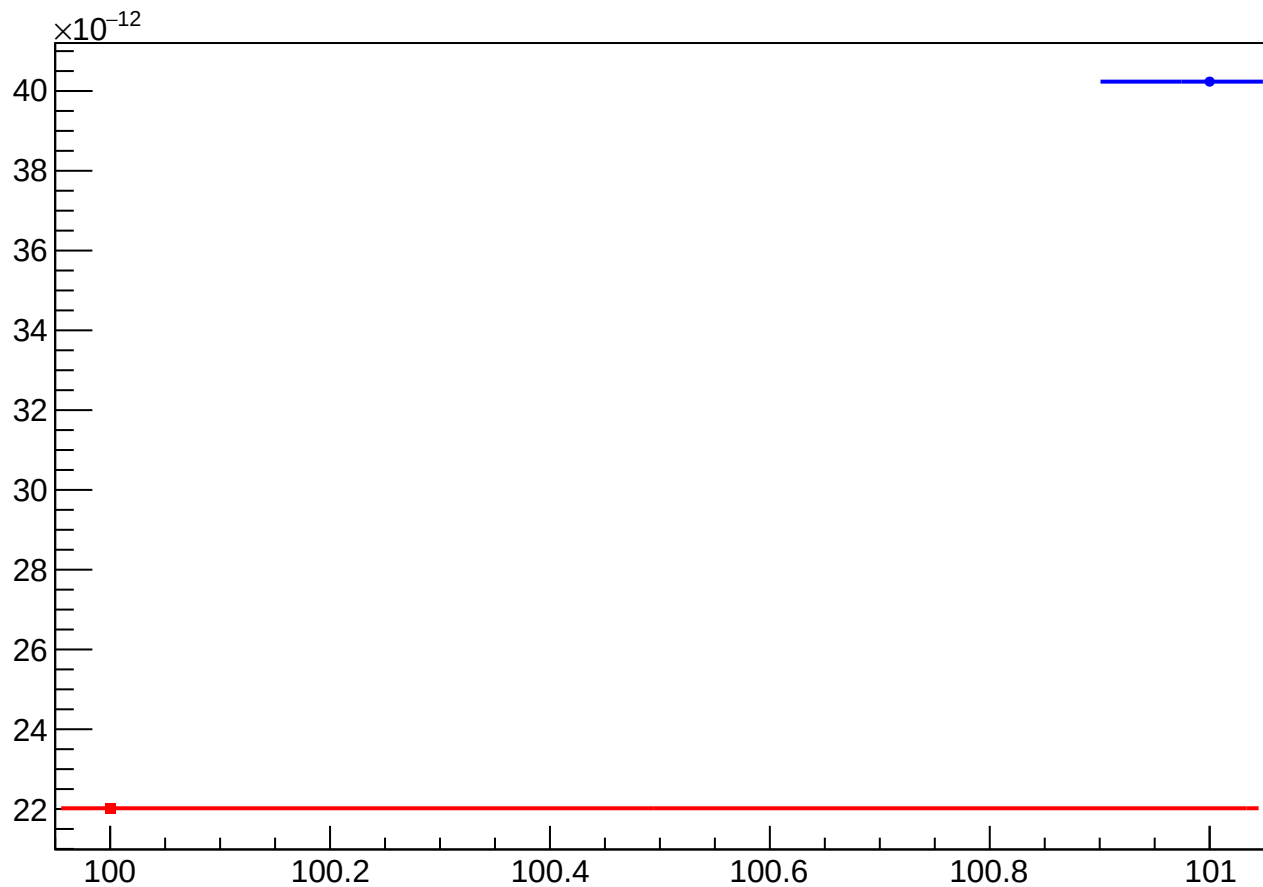
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_at1lr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 21603.4/1

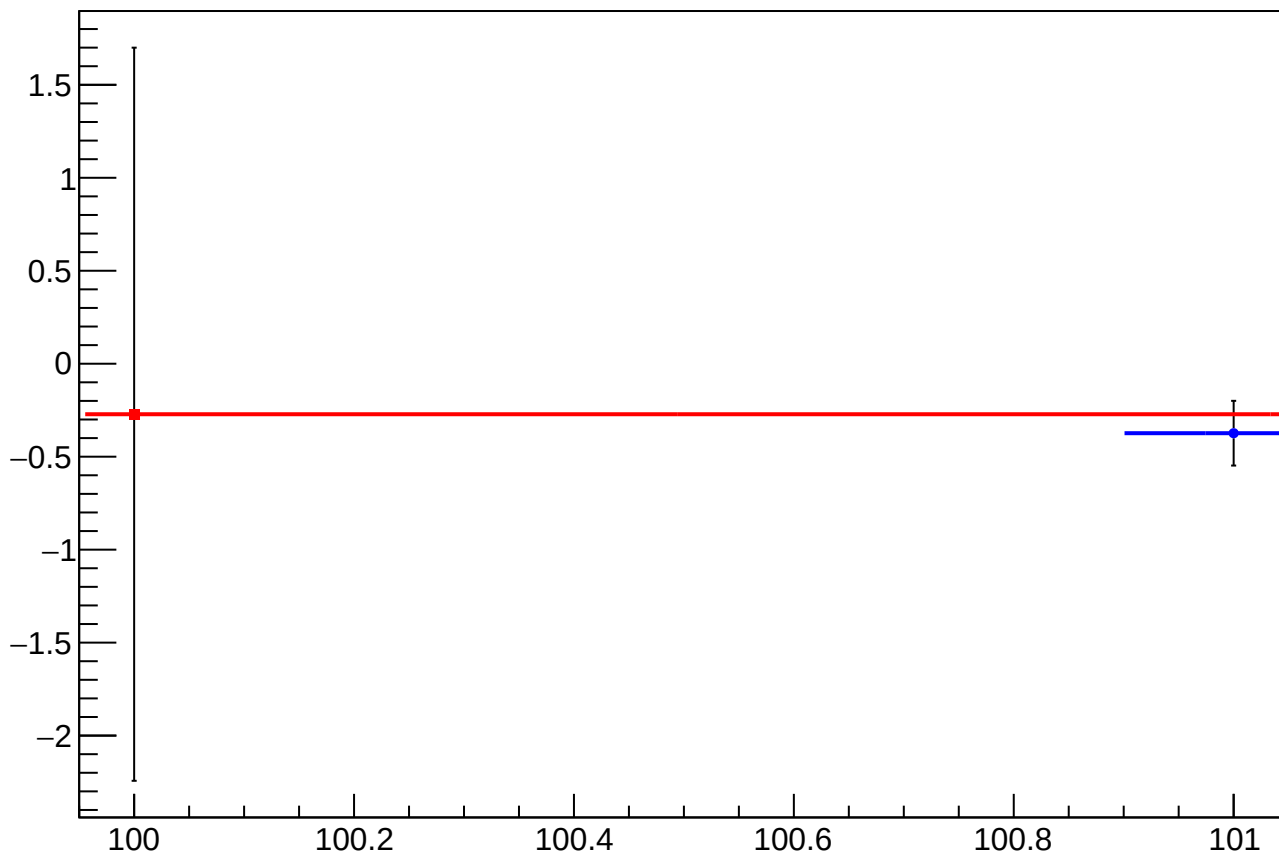
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 21603.4/1



asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.374 \pm 0.174$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.272 \pm 1.971$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

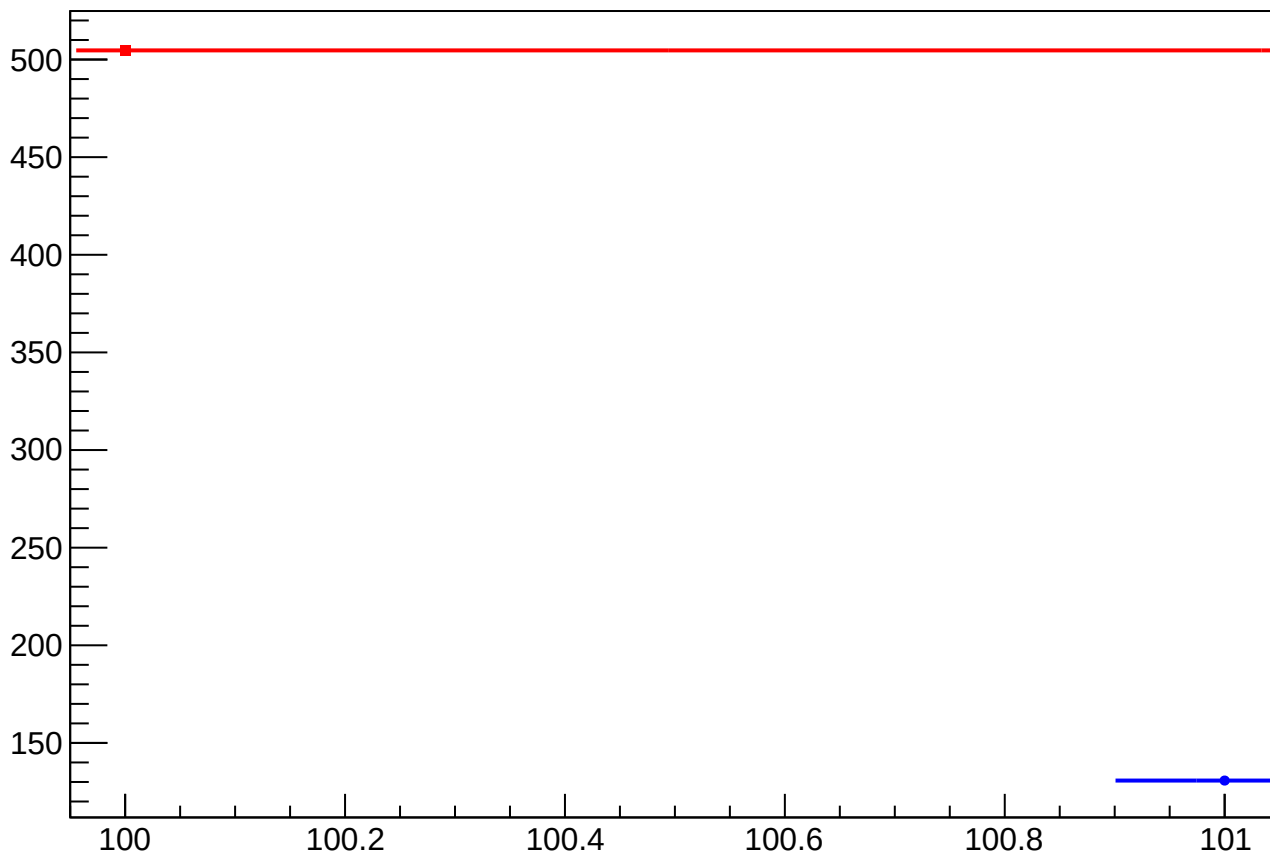
Right:  $-0.373 \pm 0.173$   $\chi^2/\text{NDF}: 0.0/1$

In:  $-0.374 \pm 0.174$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.373 \pm 0.173$   $\chi^2/\text{NDF}: 0.0/1$

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 130.729+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 504.679+/-1.394  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

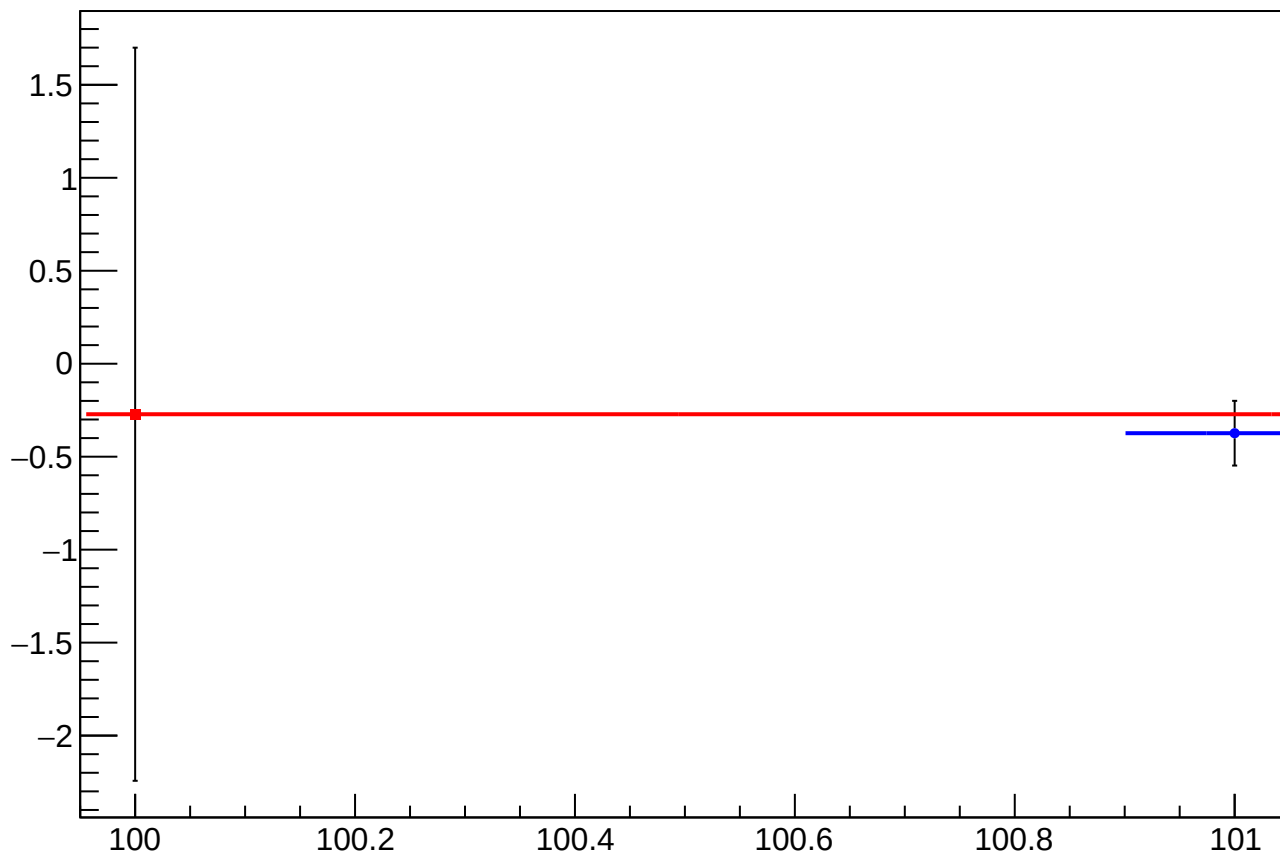
Right: 133.620+/-0.123  $\chi^2/\text{NDF}$ : 71402.4/1

In: 130.729+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.620+/-0.123  $\chi^2/\text{NDF}$ : 71402.4/1

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.374+/-0.174  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.272+/-1.971  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

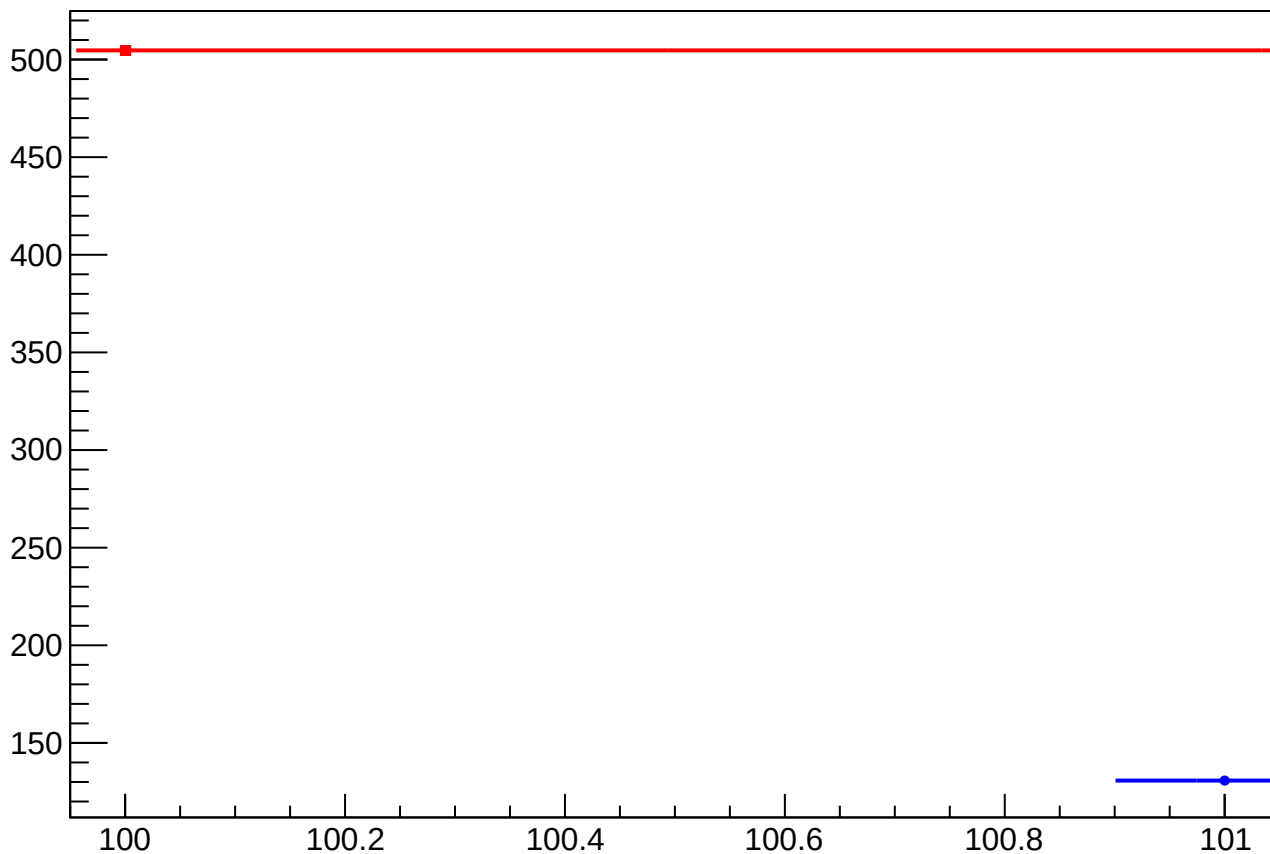
Right: -0.373+/-0.173  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.374+/-0.174  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.373+/-0.173  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_at1lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 130.729+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 504.679+/-1.394  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

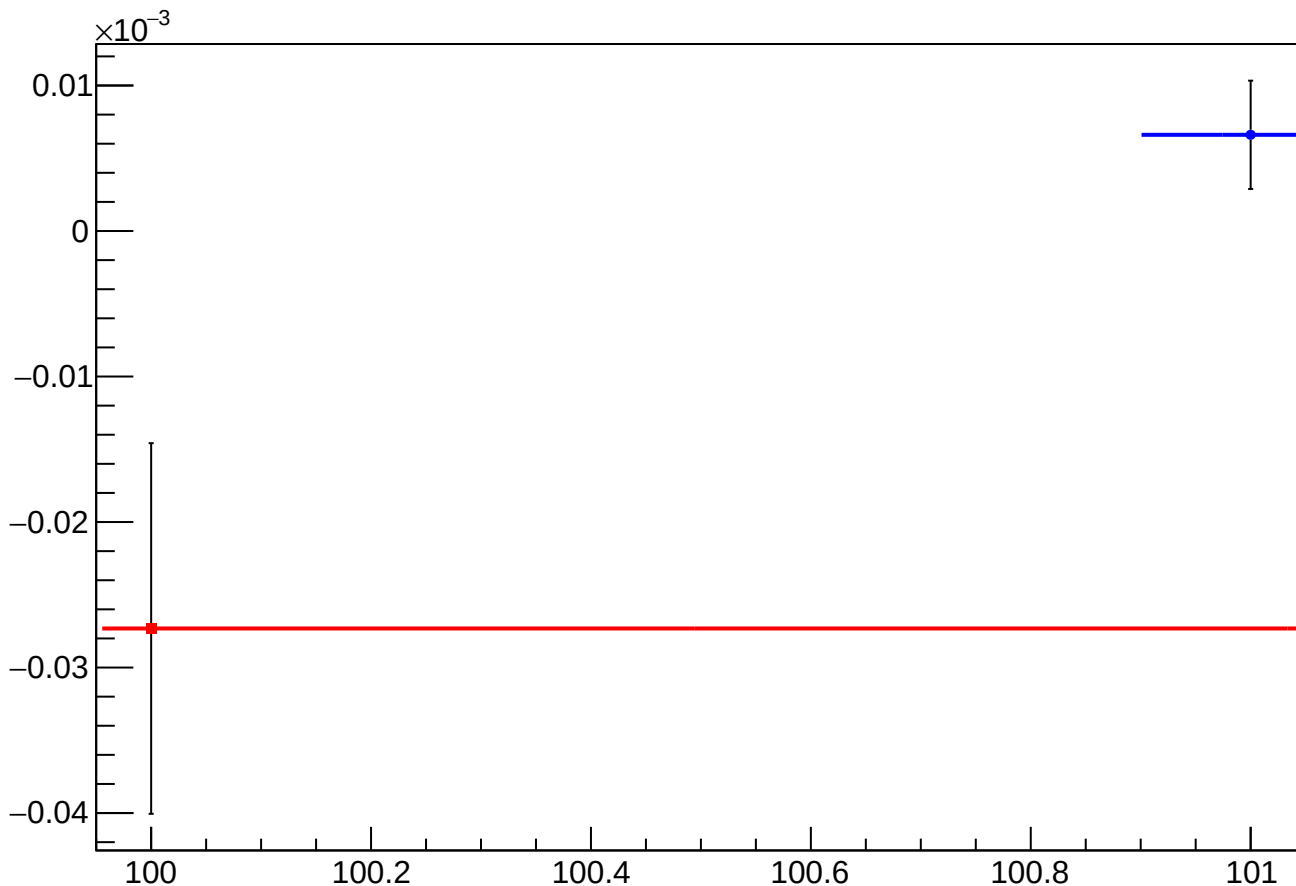
Right: 133.620+/-0.123  $\chi^2/\text{NDF}$ : 71402.4/1

In: 130.729+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.620+/-0.123  $\chi^2/\text{NDF}$ : 71402.4/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

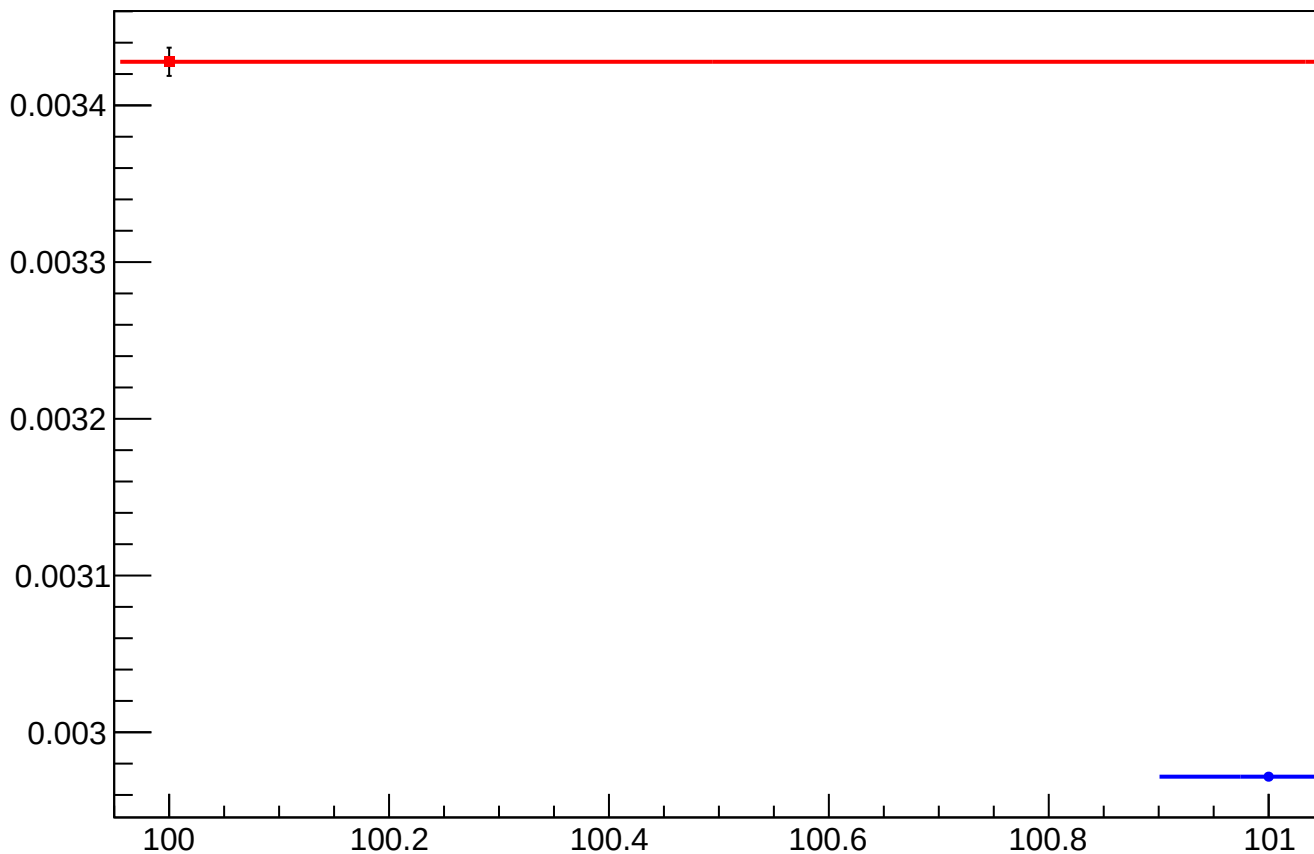
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6.5/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

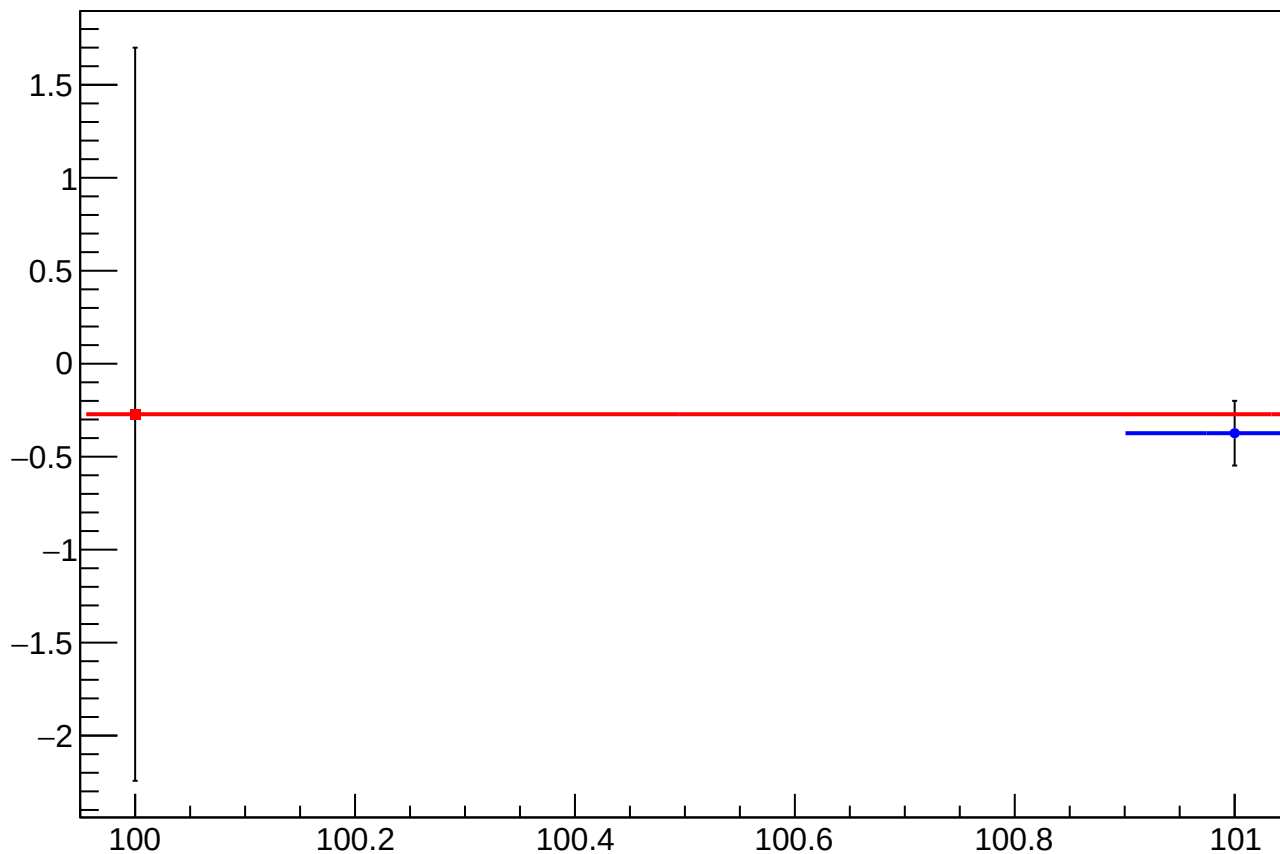
Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2364.0/1

In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 2364.0/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.374+/-0.174  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.272+/-1.971  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

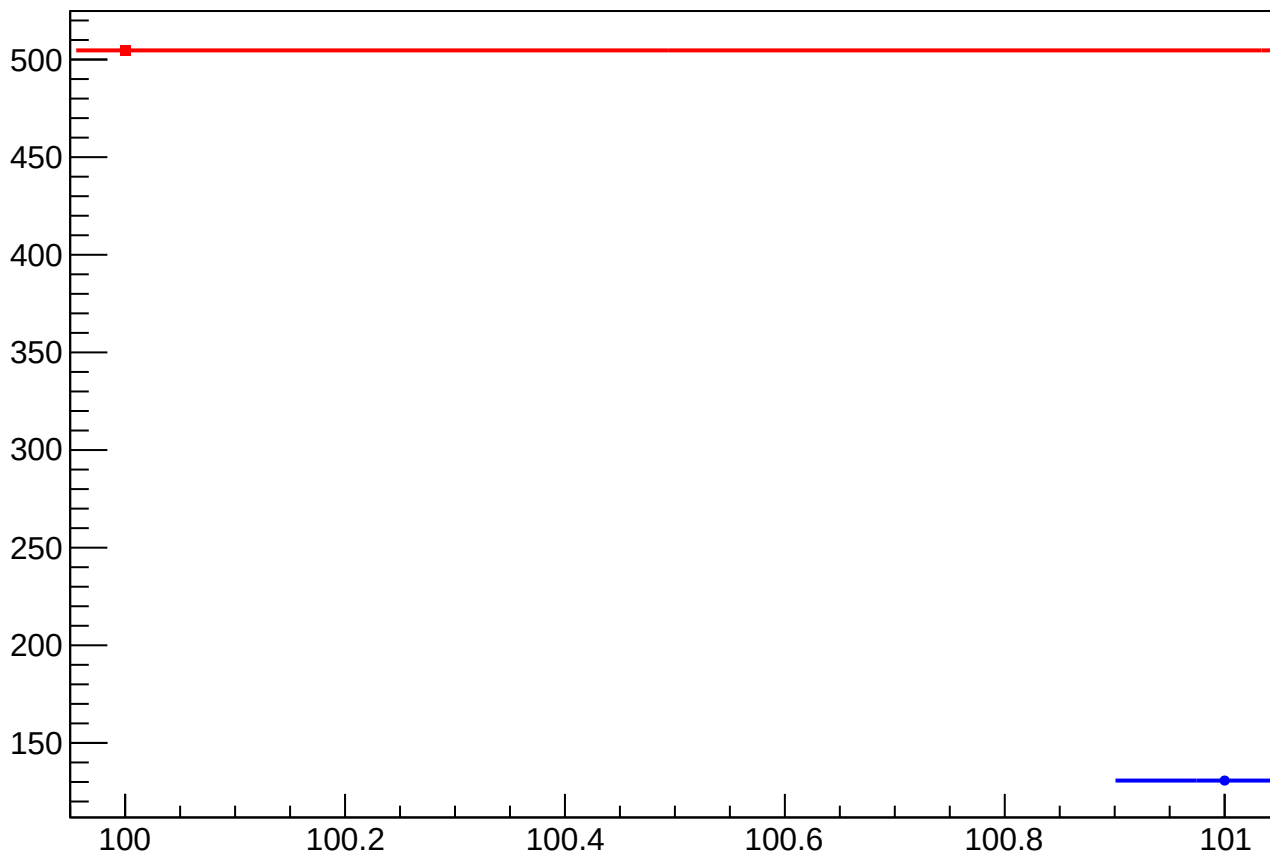
Right: -0.373+/-0.173  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.374+/-0.174  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.373+/-0.173  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 130.729+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 504.679+/-1.394  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 133.620+/-0.123  $\chi^2/\text{NDF}$ : 71402.1/1

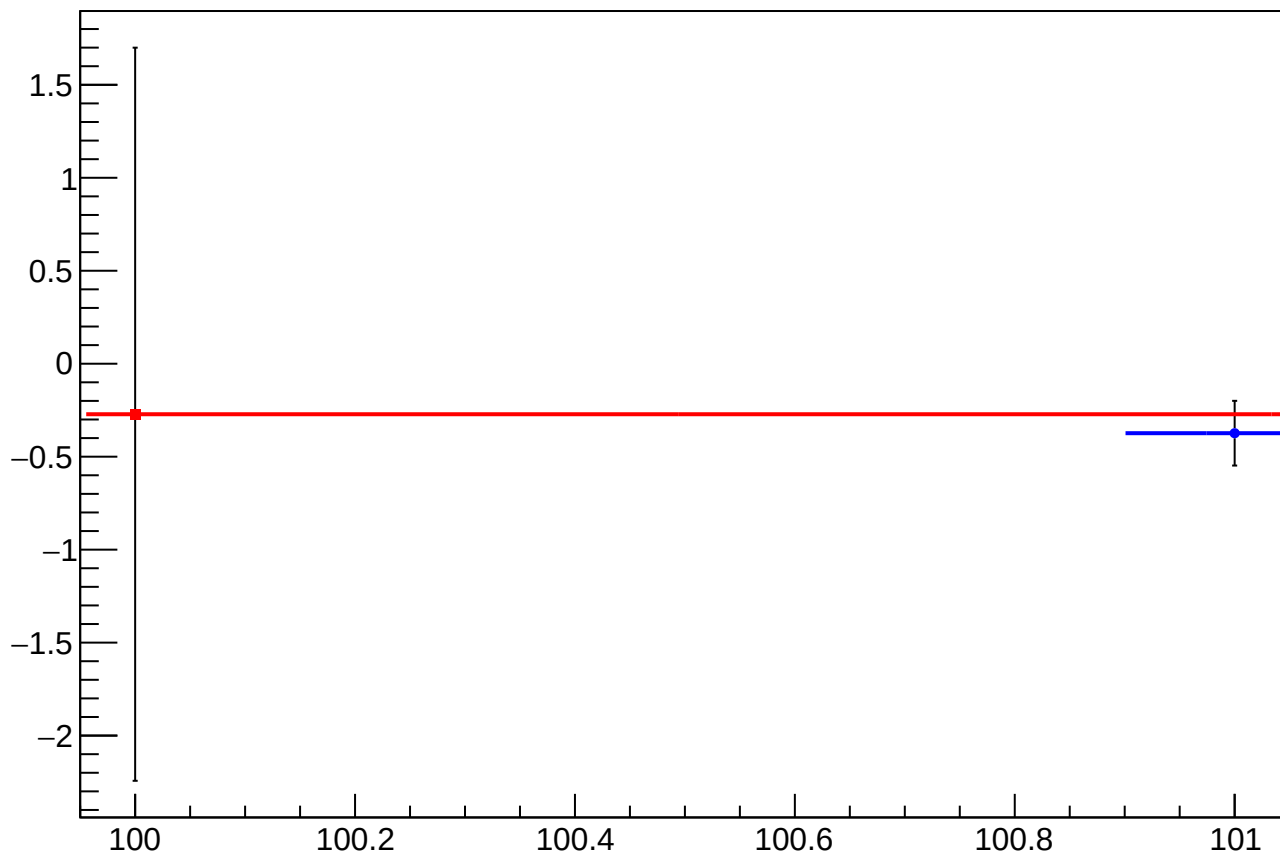
In: 130.729+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.620+/-0.123  $\chi^2/\text{NDF}$ : 71402.1/1



asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.374 +/- 0.174  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.272 +/- 1.971  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

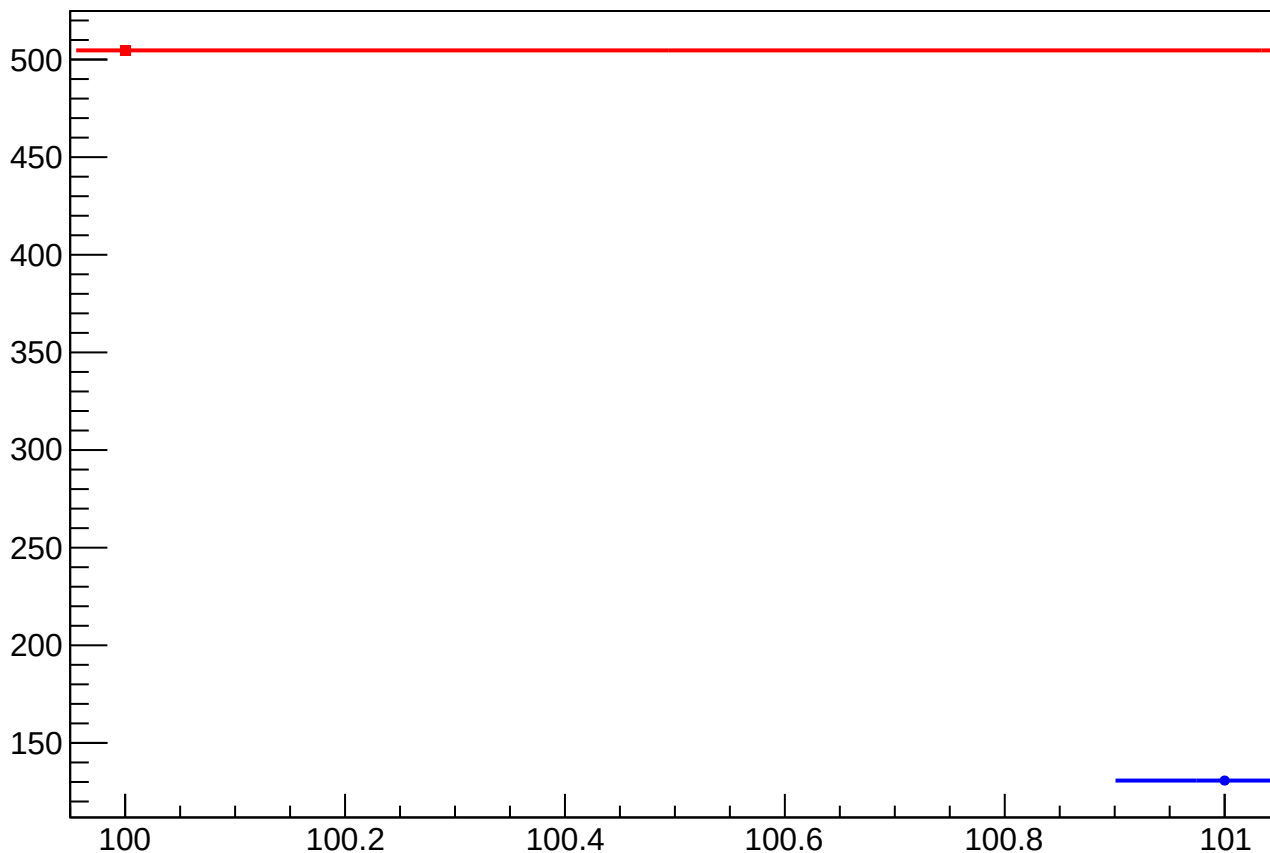
Right: -0.373 +/- 0.173  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.374 +/- 0.174  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.373 +/- 0.173  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 130.729+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 504.679+/-1.394  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

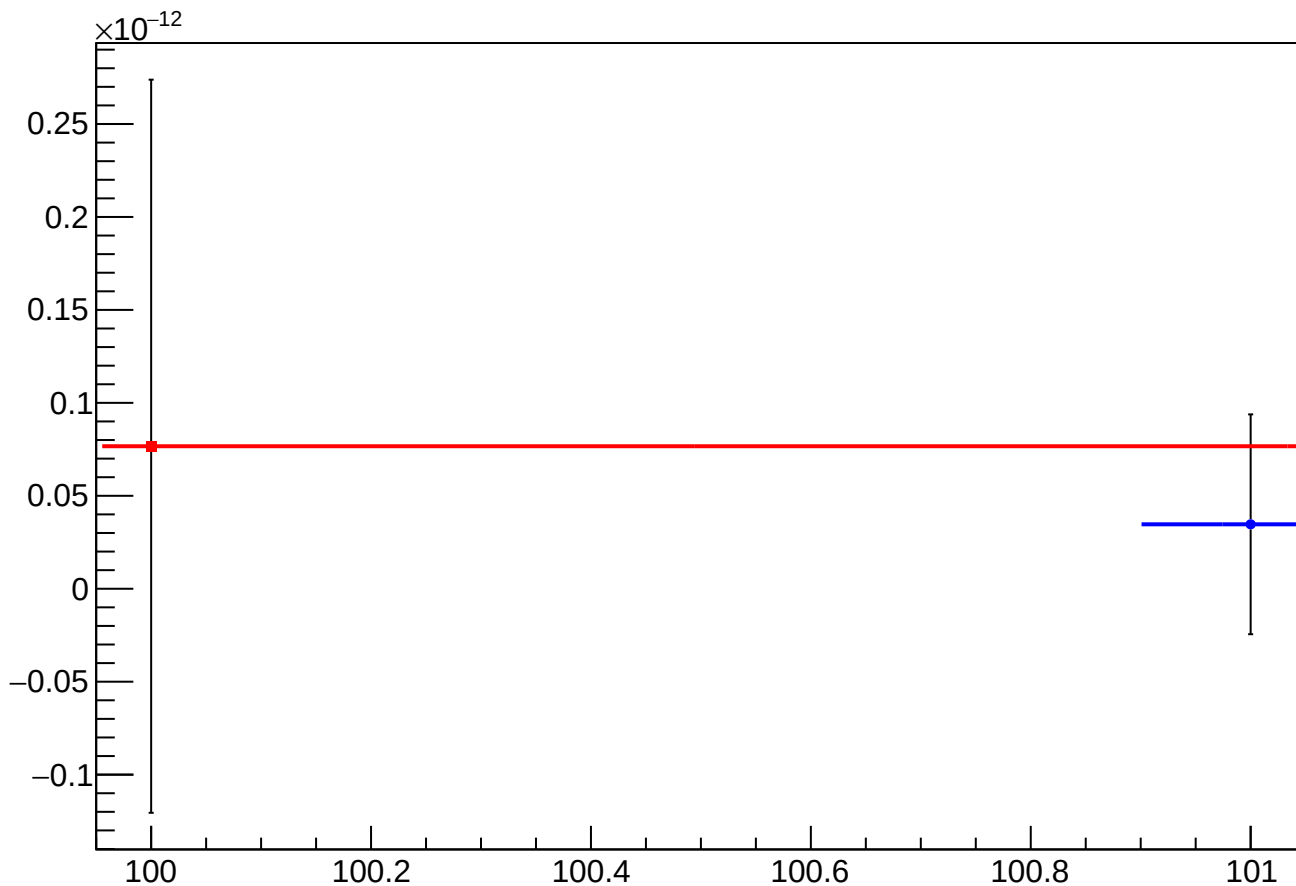
Right: 133.620+/-0.123  $\chi^2/\text{NDF}$ : 71402.1/1

In: 130.729+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.620+/-0.123  $\chi^2/\text{NDF}$ : 71402.1/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

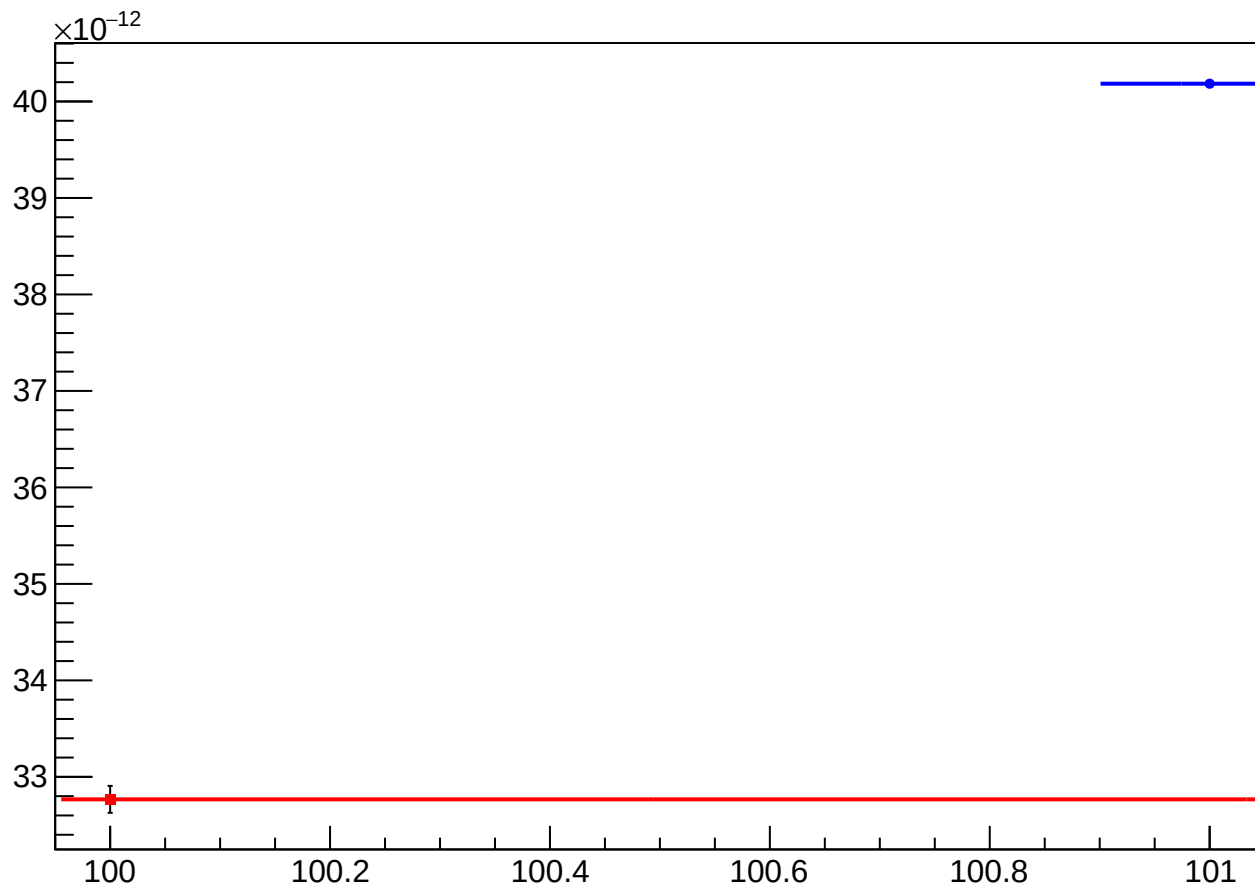
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_at1lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

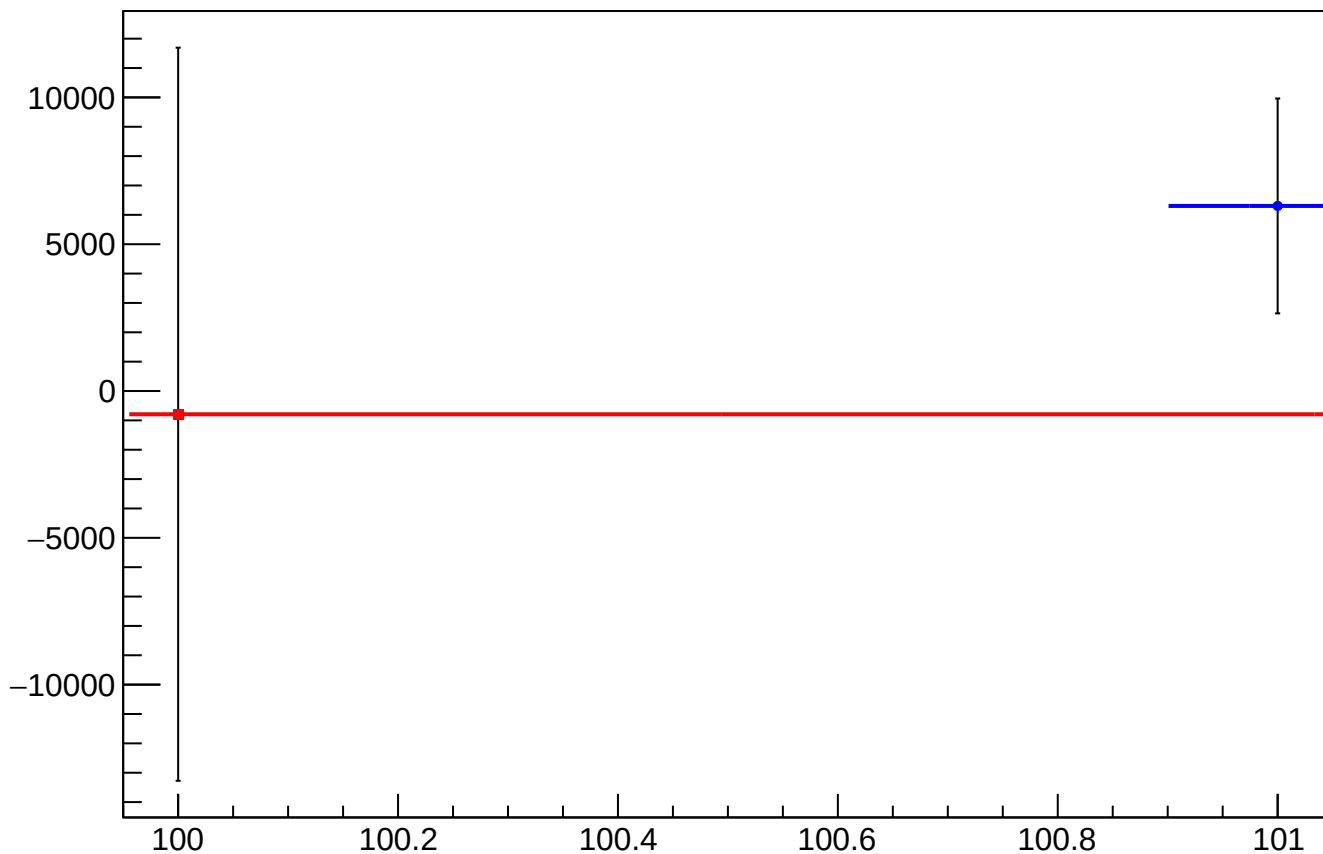
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2596.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2596.3/1

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 6303.457+/-3659.292  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -790.664+/-12484.219  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

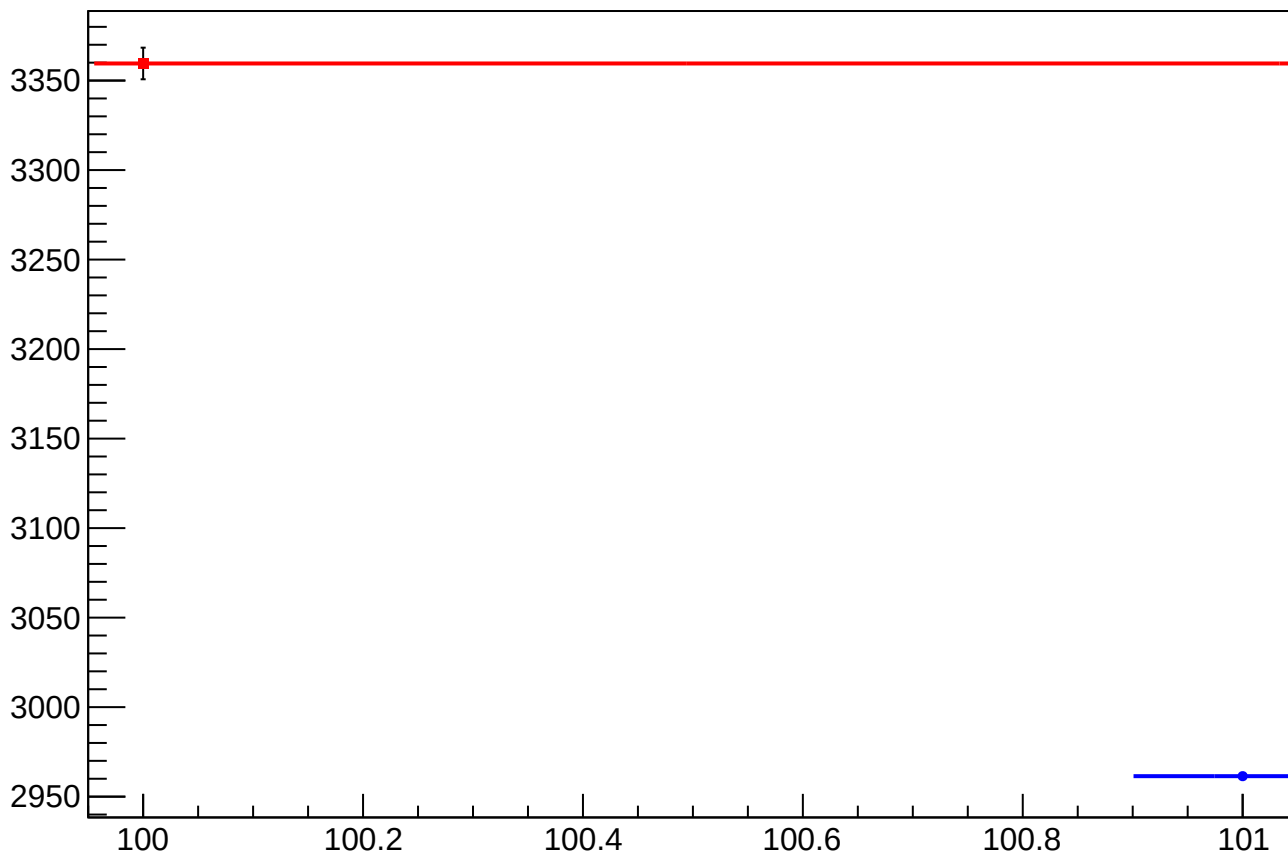
Right: 5742.185+/-3511.552  $\chi^2/\text{NDF}$ : 0.3/1

In: 6303.457+/-3659.292  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5742.185+/-3511.552  $\chi^2/\text{NDF}$ : 0.3/1

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 2961.442 $\pm$ 2.588  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3359.543 $\pm$ 8.828  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

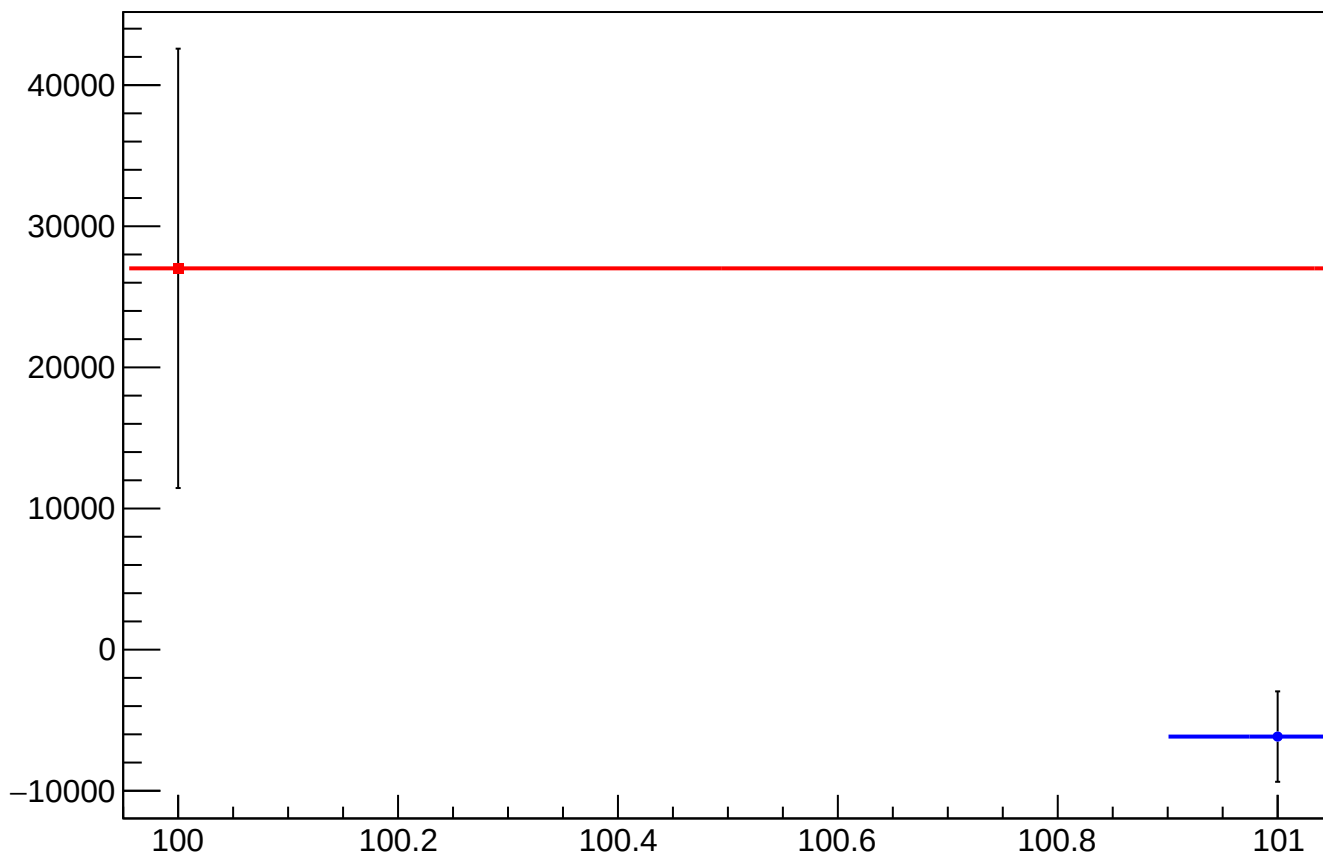
Right: 2992.939 $\pm$ 2.483  $\chi^2/\text{NDF}$ : 1872.8/1

In: 2961.442 $\pm$ 2.588  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2992.939 $\pm$ 2.483  $\chi^2/\text{NDF}$ : 1872.8/1

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -6159.290+/-3203.921  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27017.255+/-15565.991  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

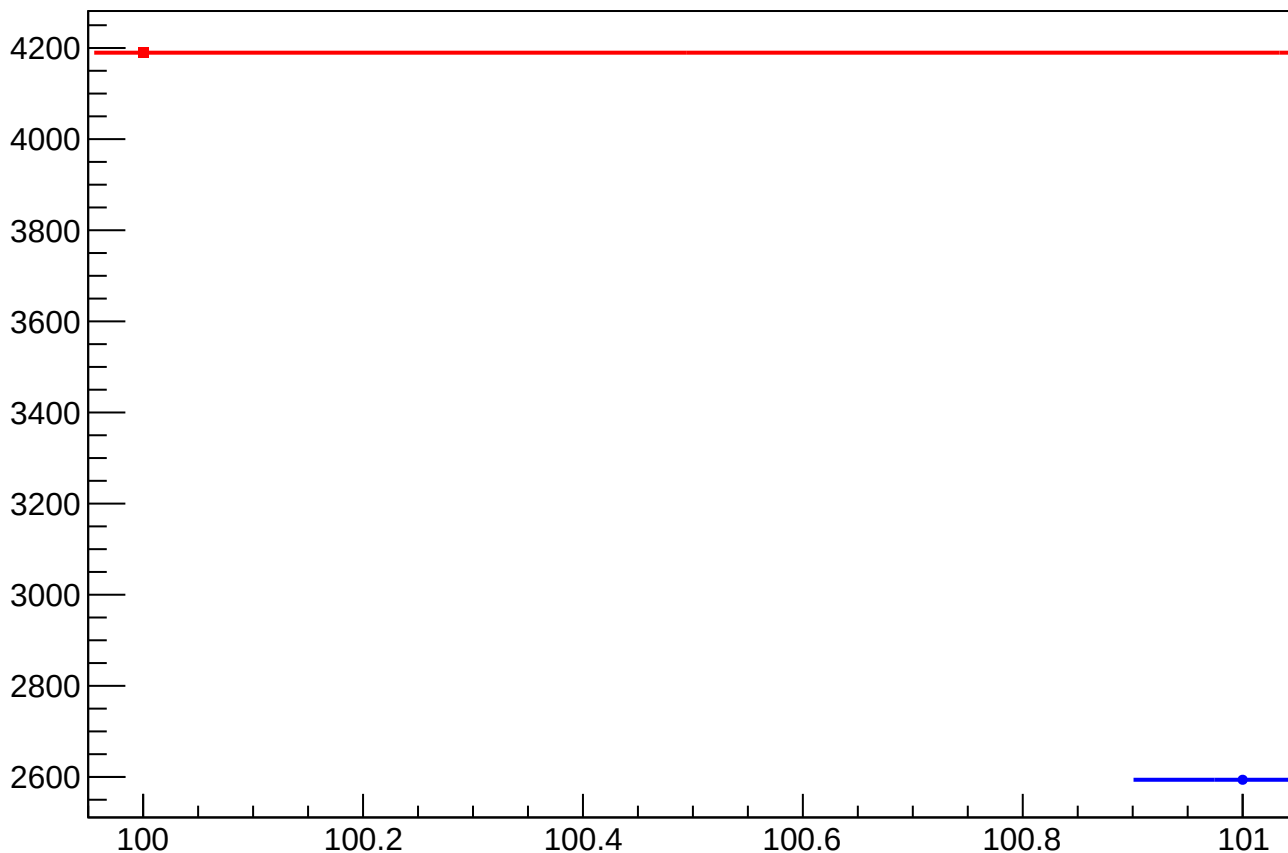
Right: -4810.882+/-3138.137  $\chi^2/\text{NDF}$ : 4.4/1

In: -6159.290+/-3203.921  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4810.882+/-3138.137  $\chi^2/\text{NDF}$ : 4.4/1

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 2593.848 $\pm$ 2.266  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4189.728 $\pm$ 11.007  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2658.710 $\pm$ 2.219  $\chi^2$ /NDF: 20167.7/1

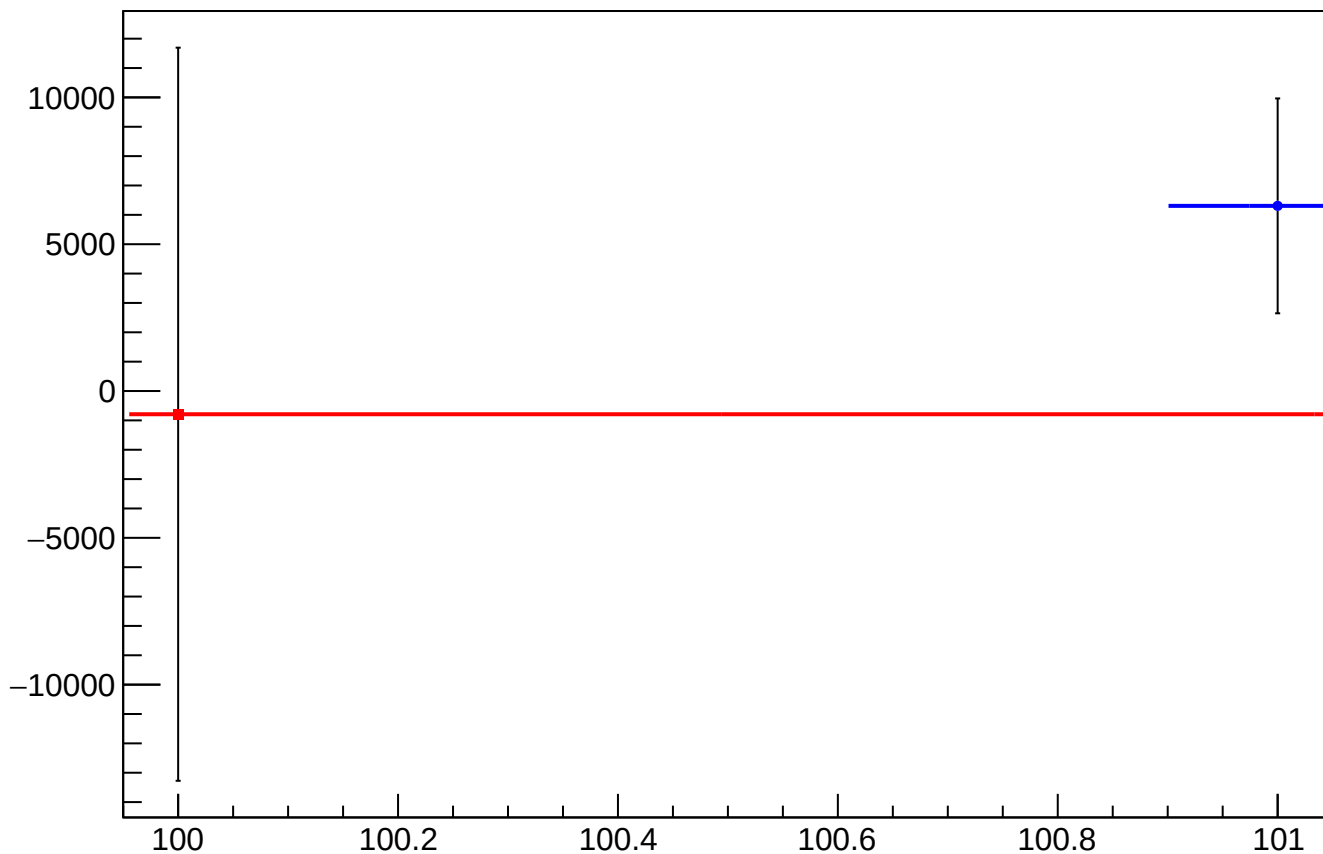
In: 2593.848 $\pm$ 2.266  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2658.710 $\pm$ 2.219  $\chi^2$ /NDF: 20167.7/1



cor\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 6305.904+/-3659.295  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -790.594+/-12484.219  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

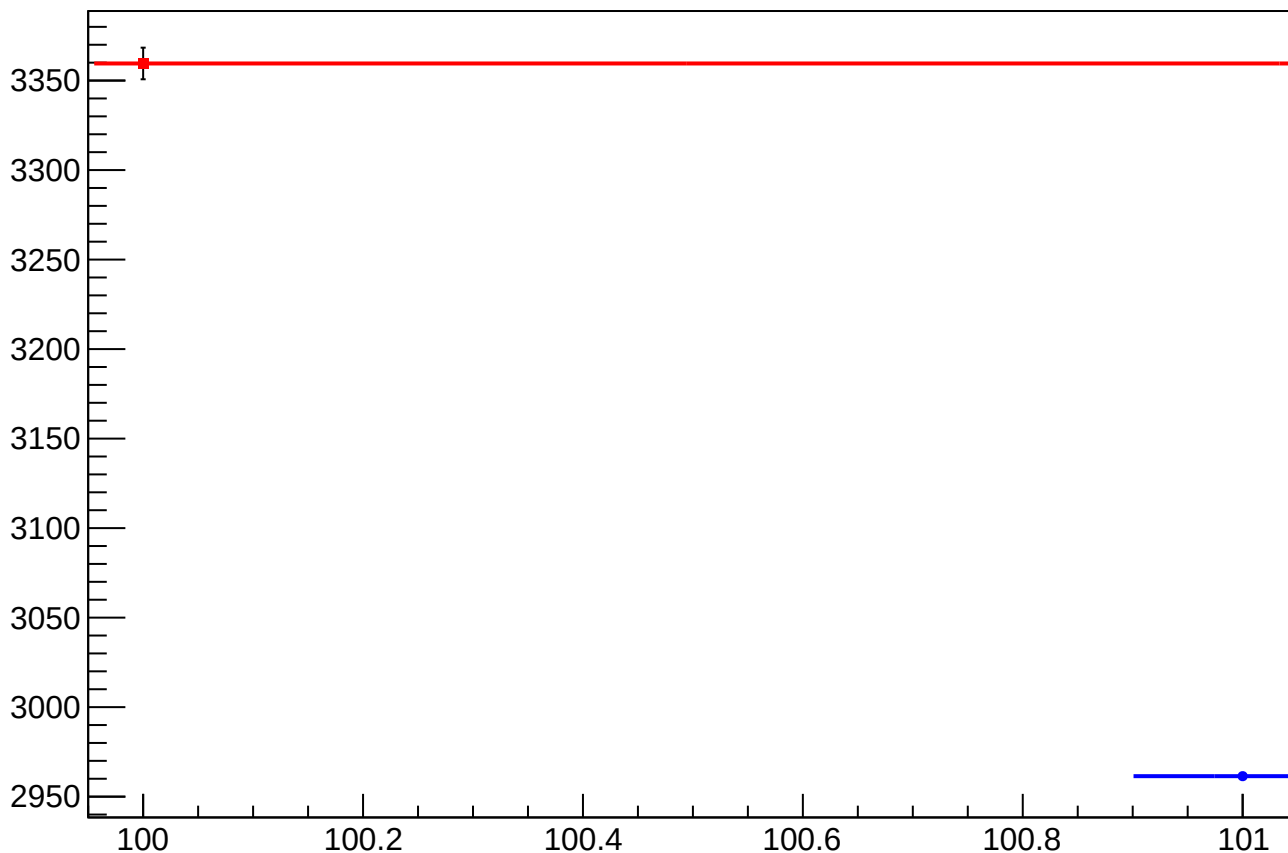
Right: 5744.443+/-3511.554  $\chi^2/\text{NDF}$ : 0.3/1

In: 6305.904+/-3659.295  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5744.443+/-3511.554  $\chi^2/\text{NDF}$ : 0.3/1

cor\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 2961.443 $\pm$ 2.588  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3359.543 $\pm$ 8.828  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

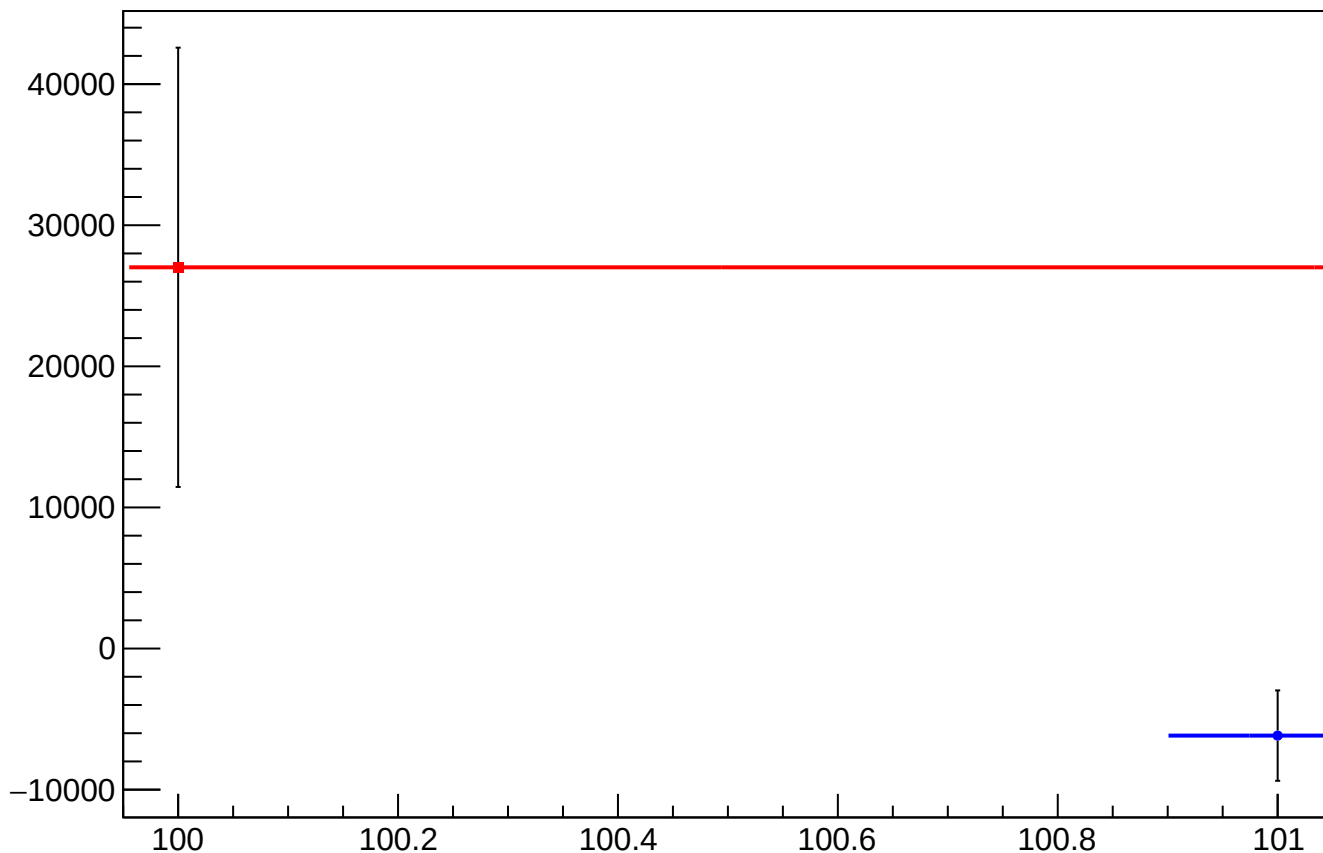
Right: 2992.940 $\pm$ 2.483  $\chi^2$ /NDF: 1872.8/1

In: 2961.443 $\pm$ 2.588  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2992.940 $\pm$ 2.483  $\chi^2$ /NDF: 1872.8/1

asym\_us\_dd\_at2lr\_dd\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -6169.865+/-3202.681  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27017.290+/-15566.008  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

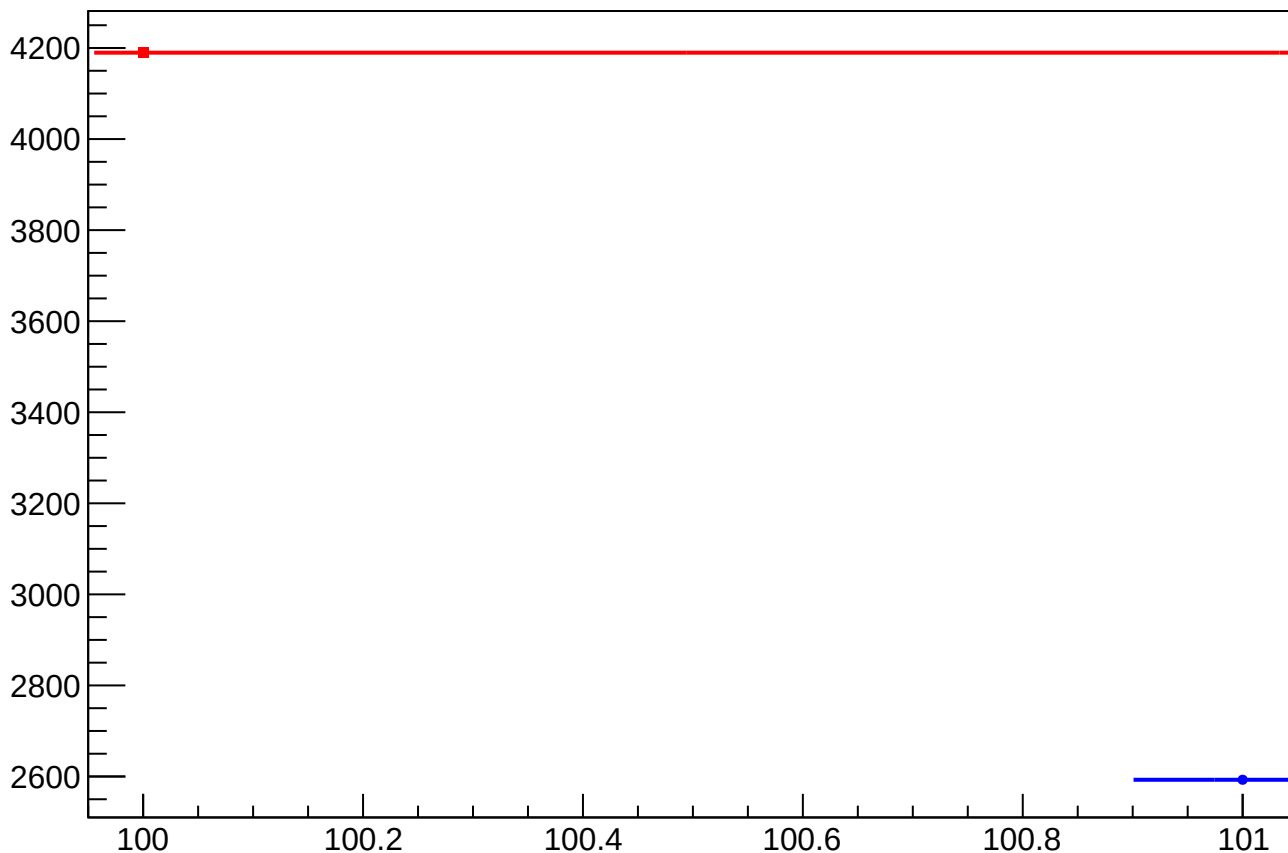
Right: -4822.030+/-3136.971  $\chi^2/\text{NDF}$ : 4.4/1

In: -6169.865+/-3202.681  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4822.030+/-3136.971  $\chi^2/\text{NDF}$ : 4.4/1

asym\_us\_dd\_at2lr\_dd\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 2592.796 $\pm$ 2.265  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4189.732 $\pm$ 11.007  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

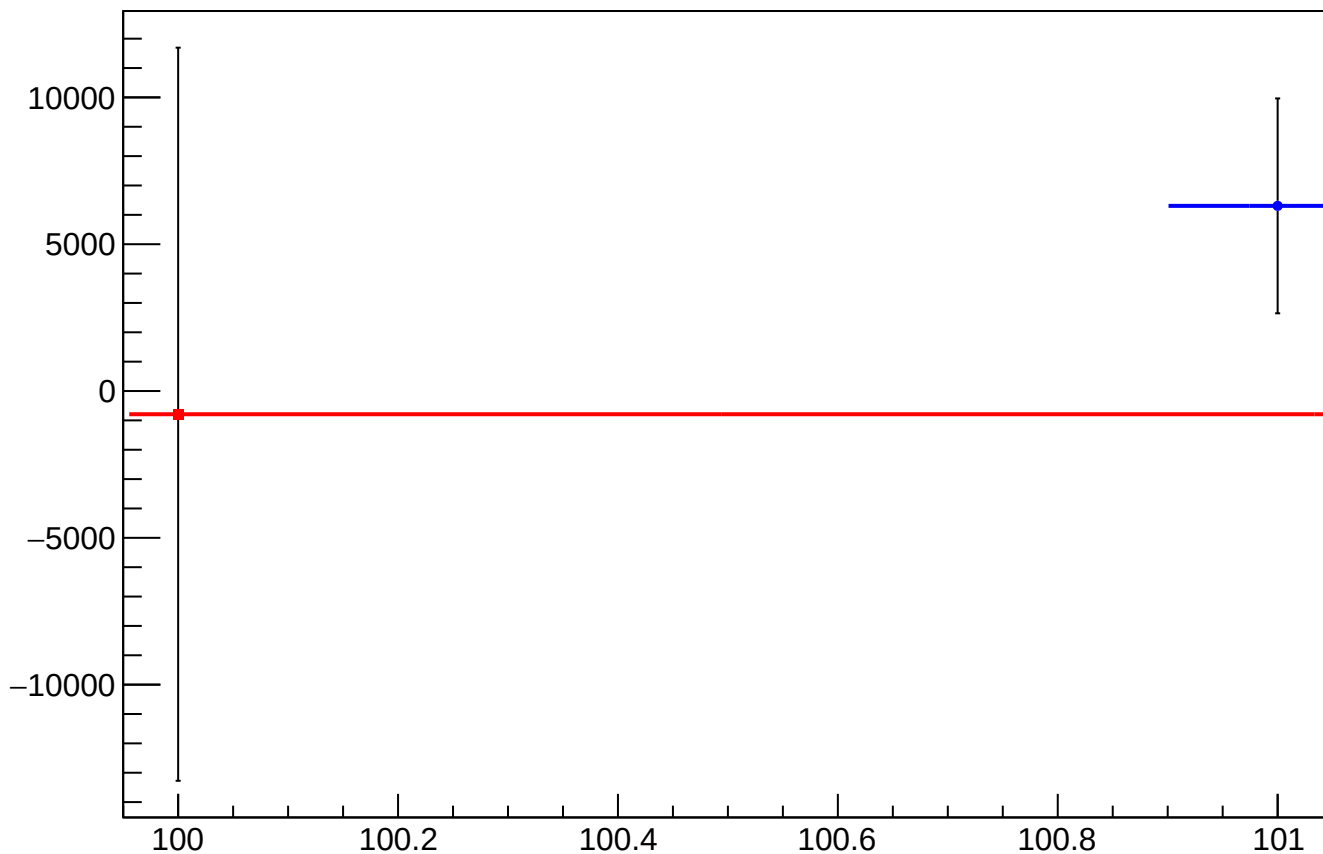
Right: 2657.652 $\pm$ 2.218  $\chi^2$ /NDF: 20195.0/1

In: 2592.796 $\pm$ 2.265  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2657.652 $\pm$ 2.218  $\chi^2$ /NDF: 20195.0/1

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 6305.904+/-3659.295  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -790.594+/-12484.219  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

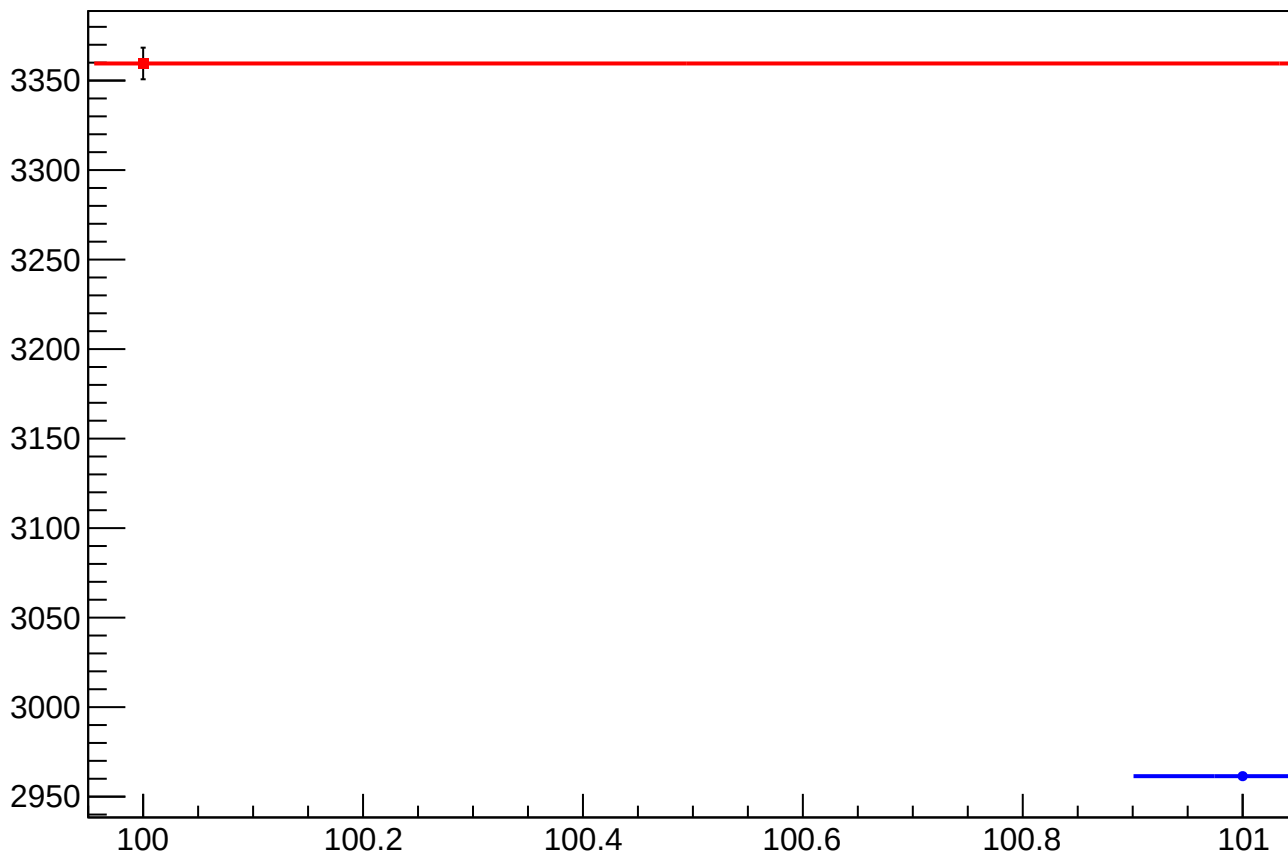
Right: 5744.443+/-3511.554  $\chi^2/\text{NDF}$ : 0.3/1

In: 6305.904+/-3659.295  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5744.443+/-3511.554  $\chi^2/\text{NDF}$ : 0.3/1

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 2961.443 $\pm$ 2.588  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3359.543 $\pm$ 8.828  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

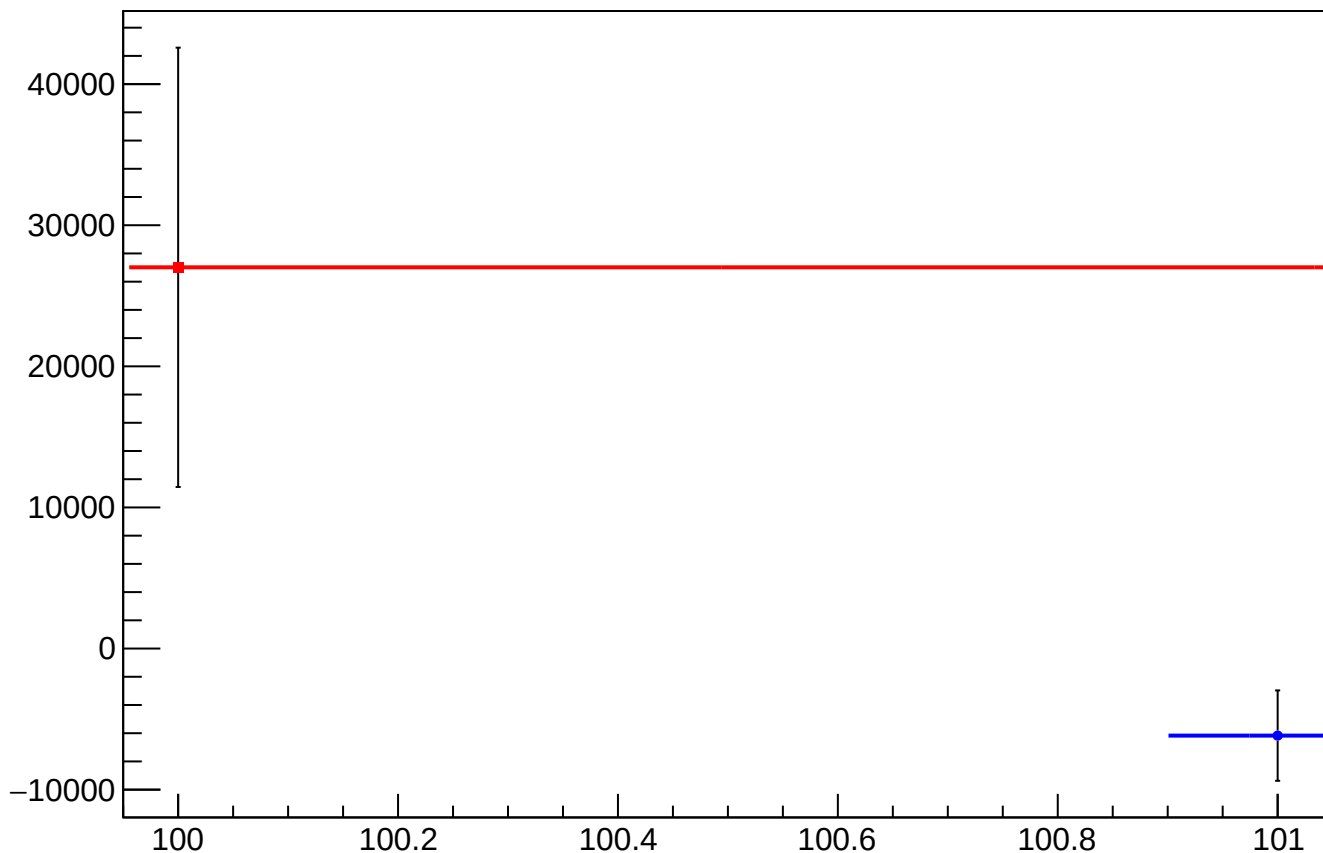
Right: 2992.940 $\pm$ 2.483  $\chi^2$ /NDF: 1872.8/1

In: 2961.443 $\pm$ 2.588  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2992.940 $\pm$ 2.483  $\chi^2$ /NDF: 1872.8/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -6169.865+/-3202.681  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27017.290+/-15566.008  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

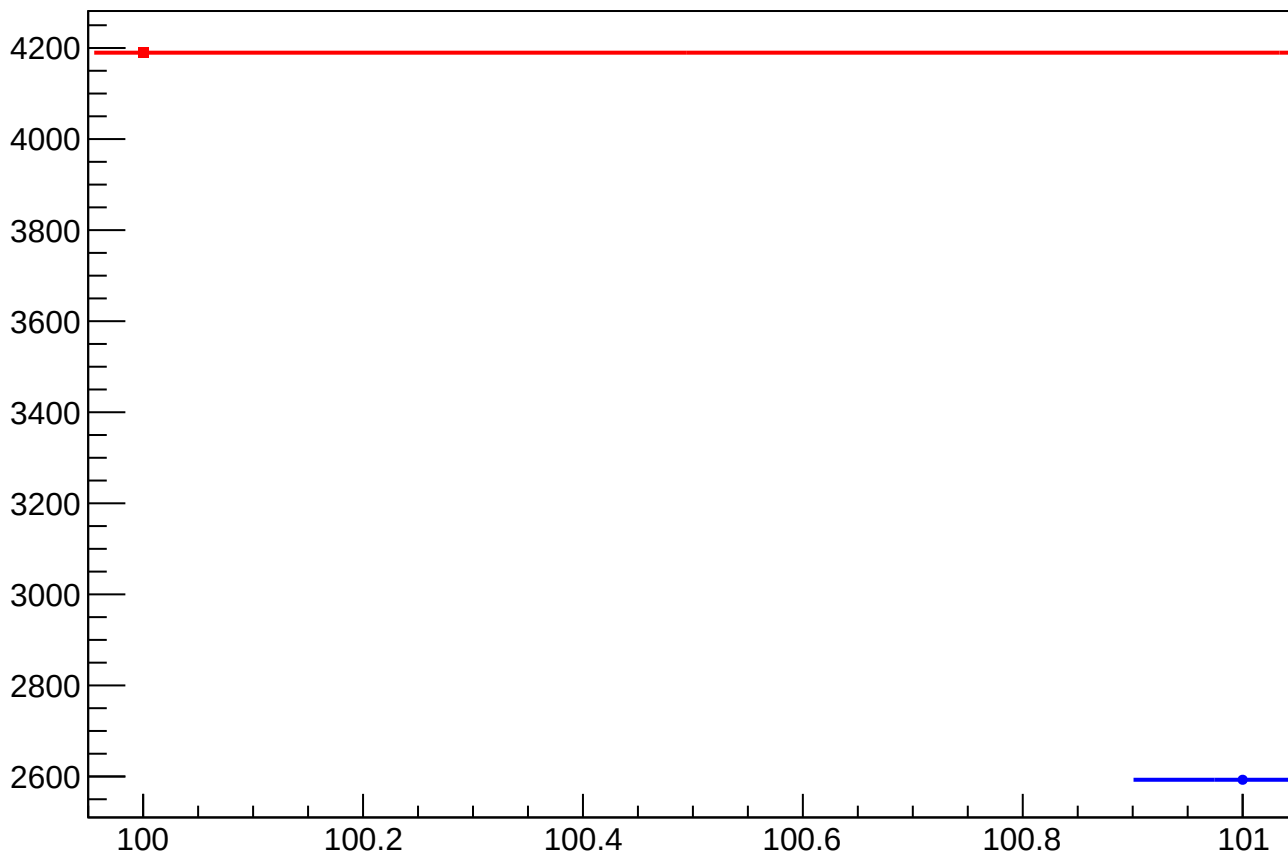
Right: -4822.030+/-3136.971  $\chi^2/\text{NDF}$ : 4.4/1

In: -6169.865+/-3202.681  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4822.030+/-3136.971  $\chi^2/\text{NDF}$ : 4.4/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 2592.796 $\pm$ 2.265  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4189.732 $\pm$ 11.007  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2657.652 $\pm$ 2.218  $\chi^2$ /NDF: 20195.0/1

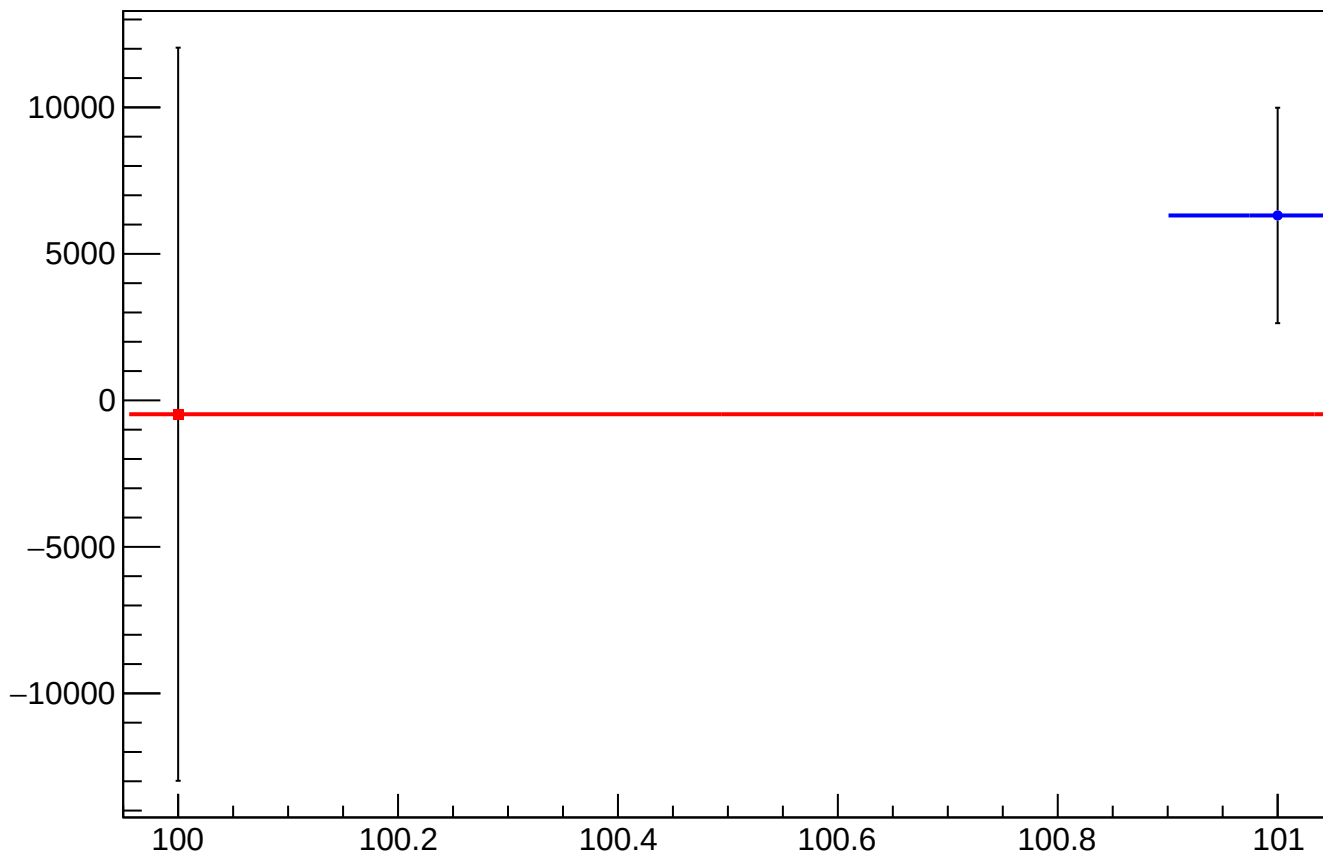
In: 2592.796 $\pm$ 2.265  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2657.652 $\pm$ 2.218  $\chi^2$ /NDF: 20195.0/1



dit\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 6311.426+/-3676.839  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -472.974+/-12510.771  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

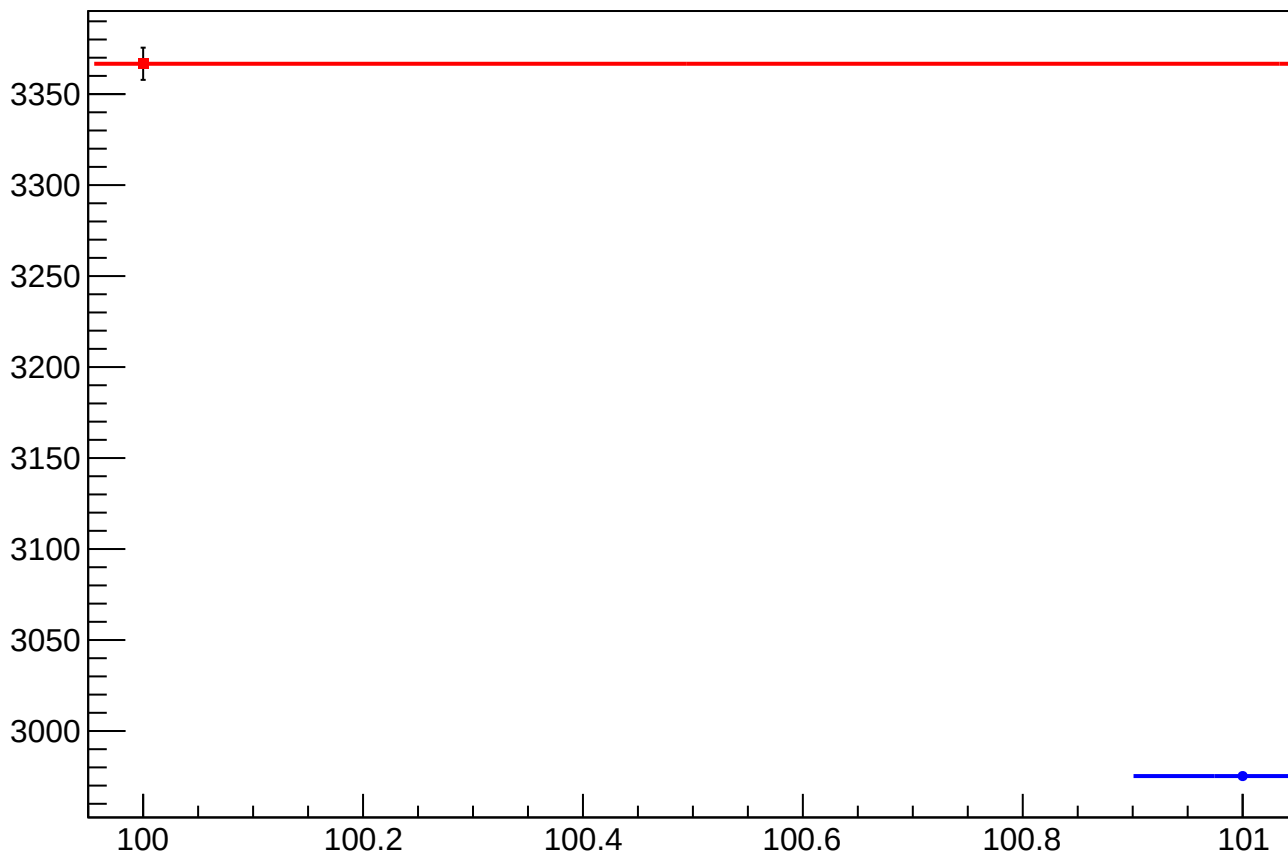
Right: 5772.023+/-3527.646  $\chi^2/\text{NDF}$ : 0.3/1

In: 6311.426+/-3676.839  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 5772.023+/-3527.646  $\chi^2/\text{NDF}$ : 0.3/1

dit\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 2975.234+/-2.600  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3366.668+/-8.846  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

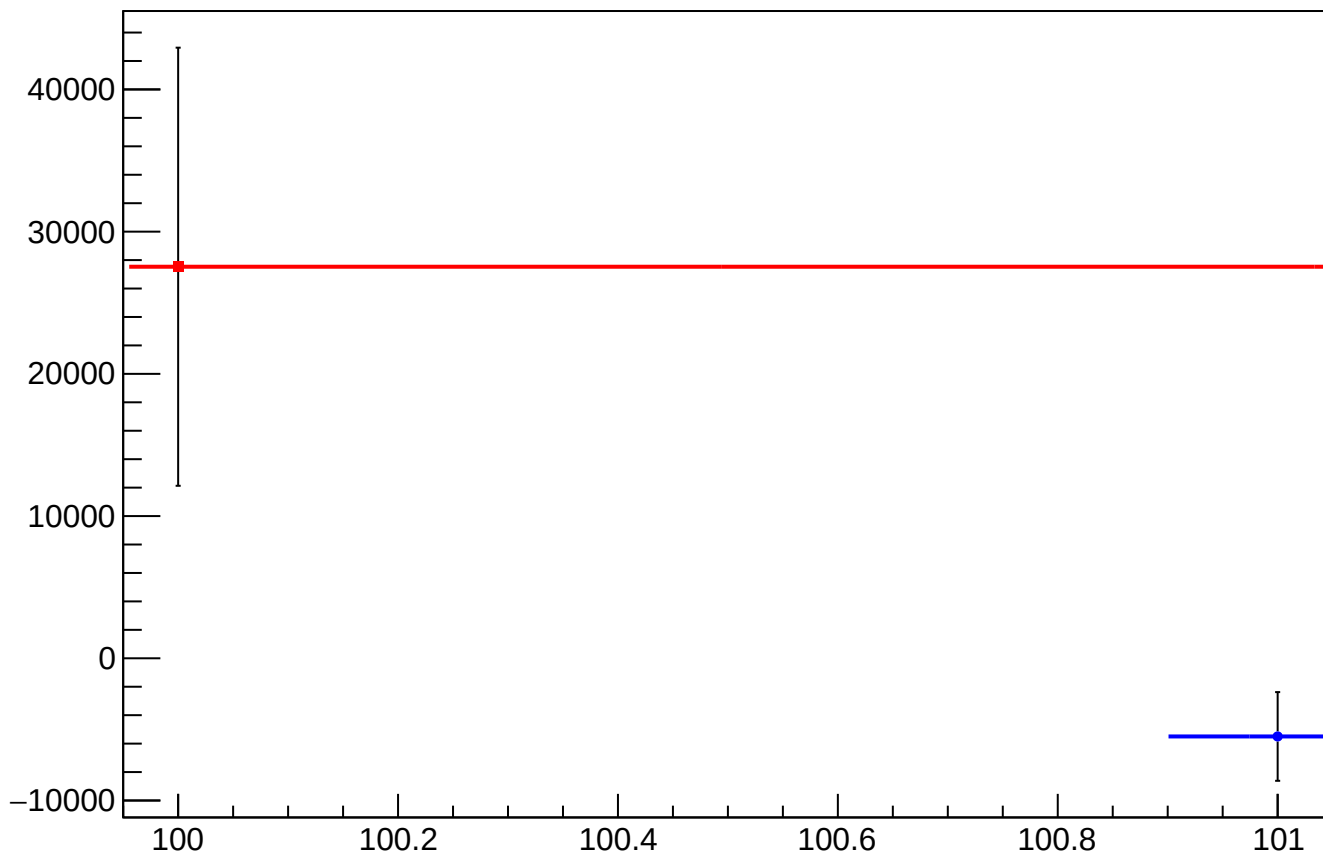
Right: 3006.356+/-2.494  $\chi^2/\text{NDF}$ : 1802.2/1

In: 2975.234+/-2.600  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3006.356+/-2.494  $\chi^2/\text{NDF}$ : 1802.2/1

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -5495.983+/-3118.488  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27533.001+/-15403.606  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

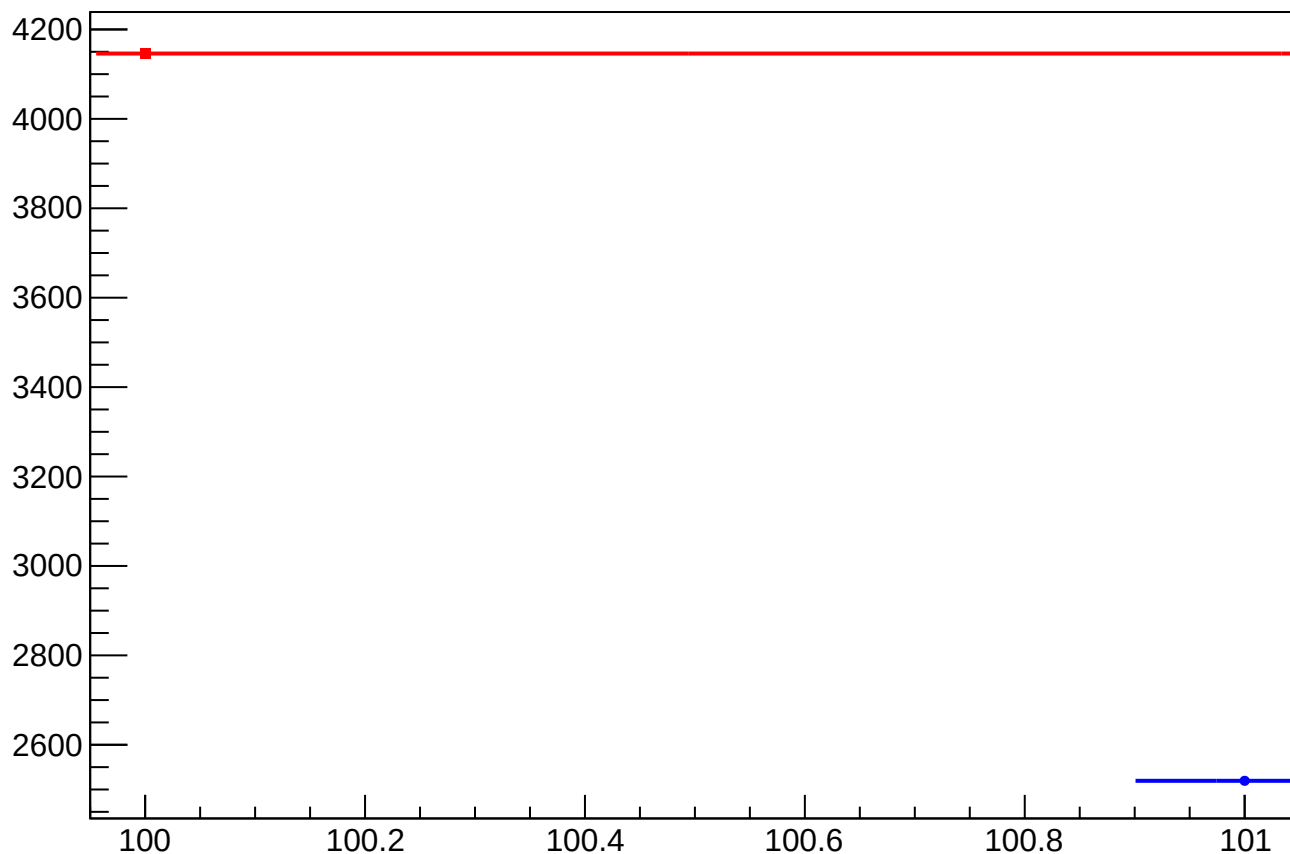
Right: -4195.534+/-3056.479  $\chi^2/\text{NDF}$ : 4.4/1

In: -5495.983+/-3118.488  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4195.534+/-3056.479  $\chi^2/\text{NDF}$ : 4.4/1

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2519.411+/-2.205  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4146.109+/-10.892  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

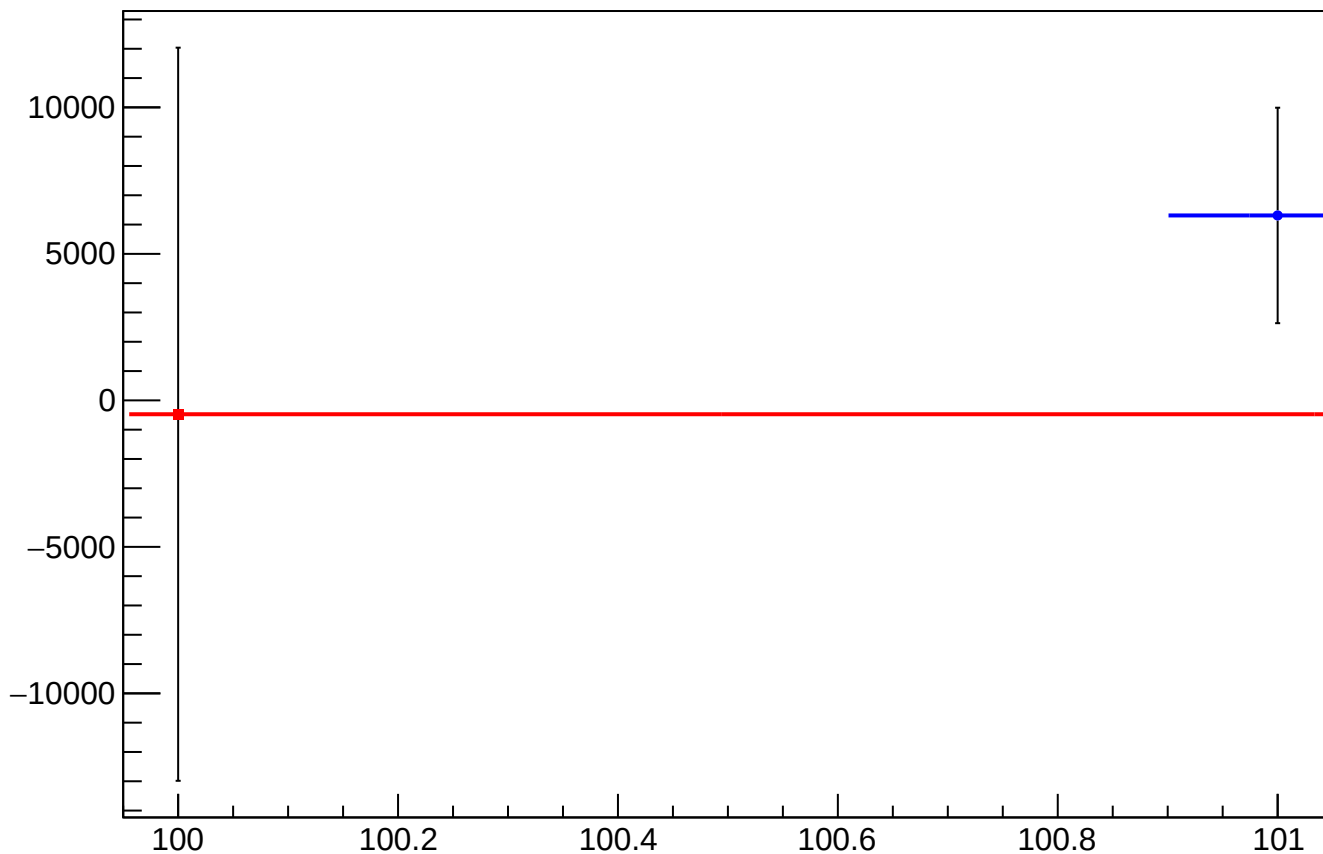
Right: 2583.459+/-2.161  $\chi^2/\text{NDF}$ : 21426.6/1

In: 2519.411+/-2.205  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2583.459+/-2.161  $\chi^2/\text{NDF}$ : 21426.6/1

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 6311.467+/-3676.838  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -473.155+/-12510.771  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

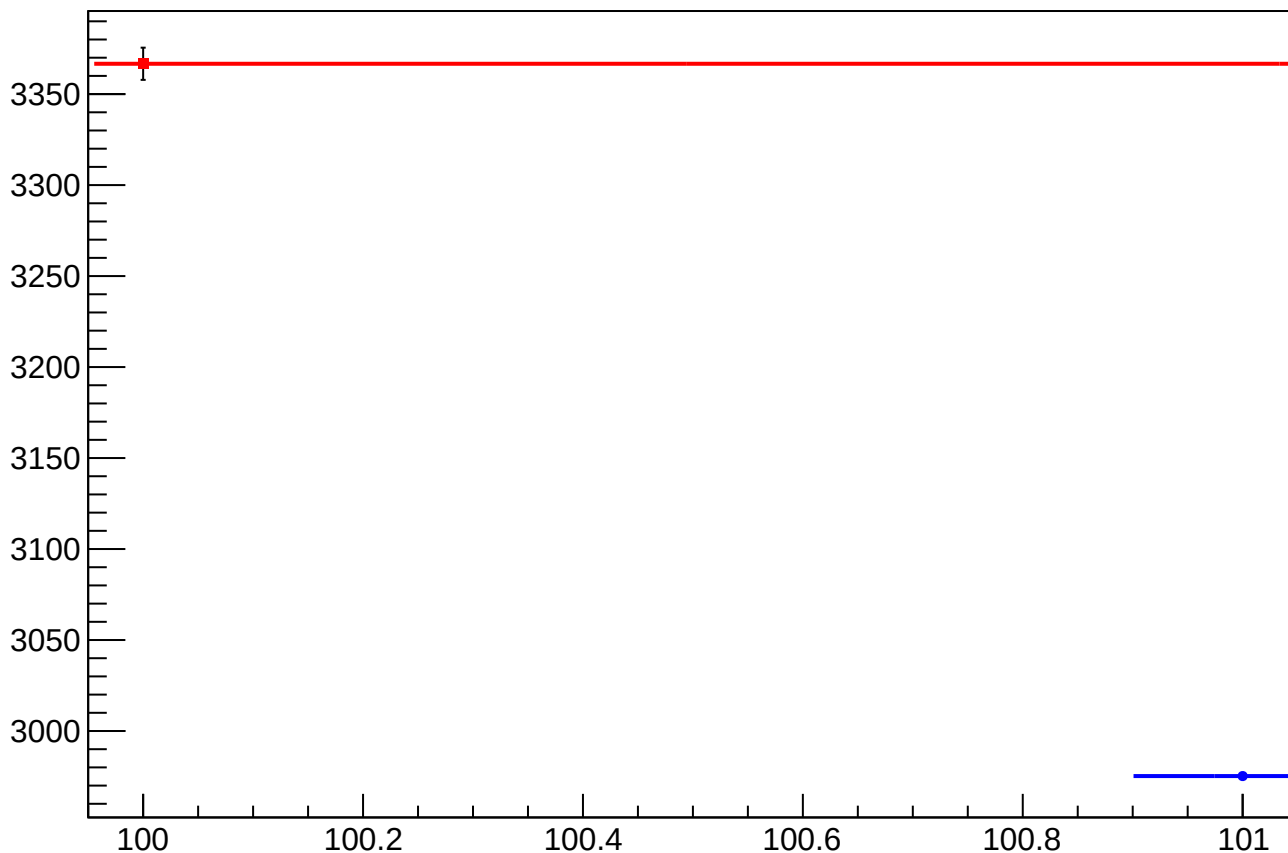
Right: 5772.046+/-3527.646  $\chi^2/\text{NDF}$ : 0.3/1

In: 6311.467+/-3676.838  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5772.046+/-3527.646  $\chi^2/\text{NDF}$ : 0.3/1

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 2975.234 $\pm$ 2.600  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3366.668 $\pm$ 8.846  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

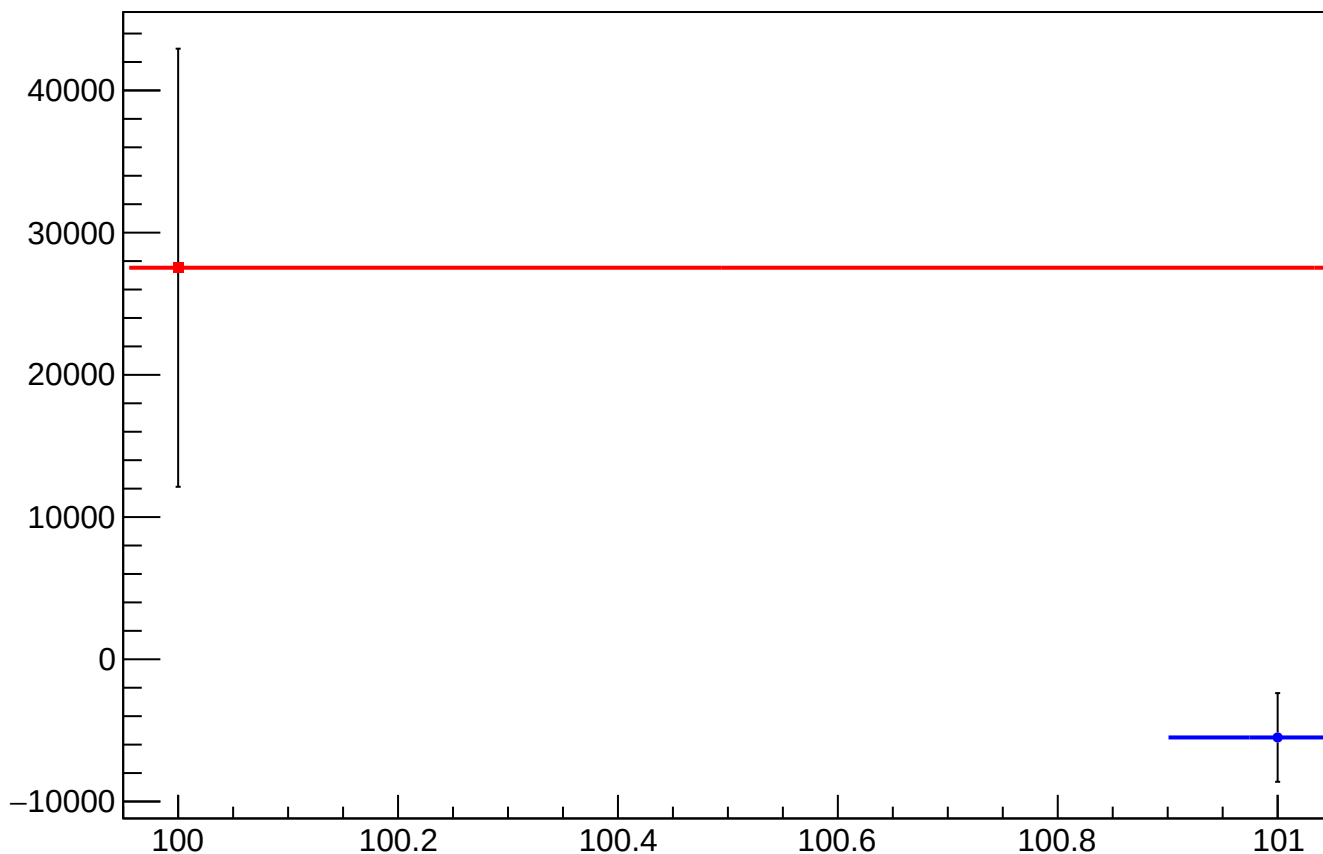
Right: 3006.356 $\pm$ 2.494  $\chi^2$ /NDF: 1802.2/1

In: 2975.234 $\pm$ 2.600  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3006.356 $\pm$ 2.494  $\chi^2$ /NDF: 1802.2/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -5495.963+/-3118.472  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27532.822+/-15403.521  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

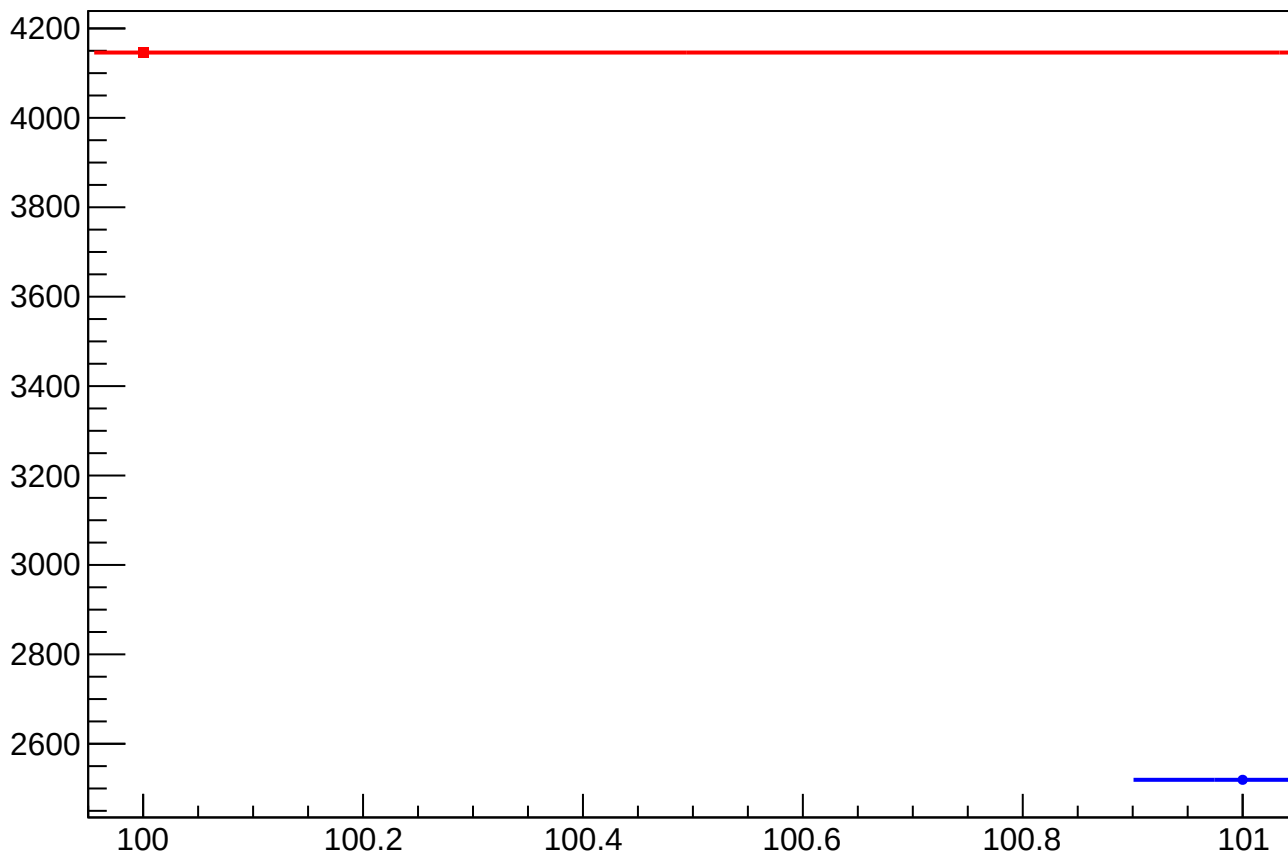
Right: -4195.521+/-3056.464  $\chi^2/\text{NDF}$ : 4.4/1

In: -5495.963+/-3118.472  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4195.521+/-3056.464  $\chi^2/\text{NDF}$ : 4.4/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2519.398 $\pm$ 2.205  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4146.086 $\pm$ 10.892  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2583.446 $\pm$ 2.161  $\chi^2$ /NDF: 21426.6/1

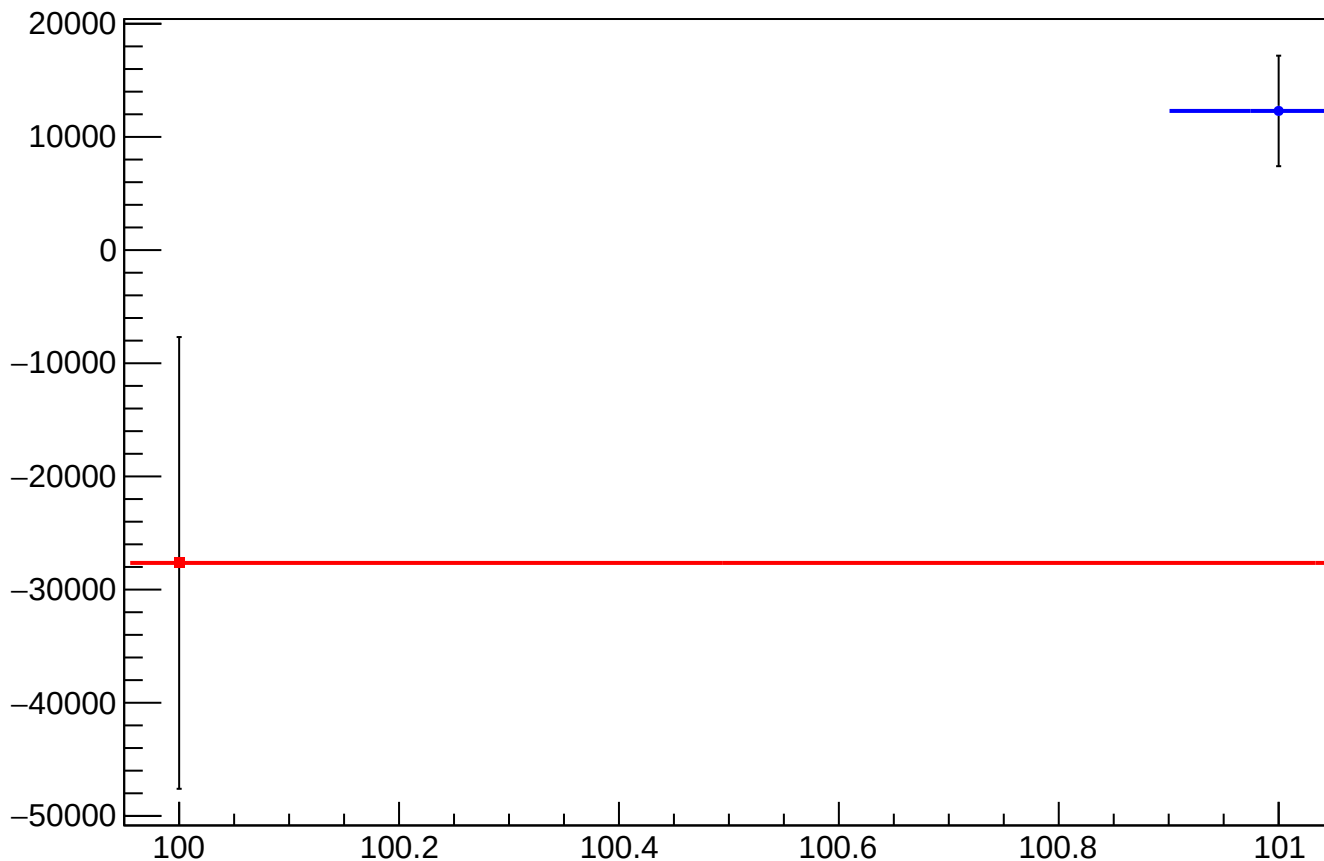
In: 2519.398 $\pm$ 2.205  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2583.446 $\pm$ 2.161  $\chi^2$ /NDF: 21426.6/1



asym\_us\_dd\_at2lr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 12297.304 $\pm$ 4882.786  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -27642.926 $\pm$ 19959.625  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

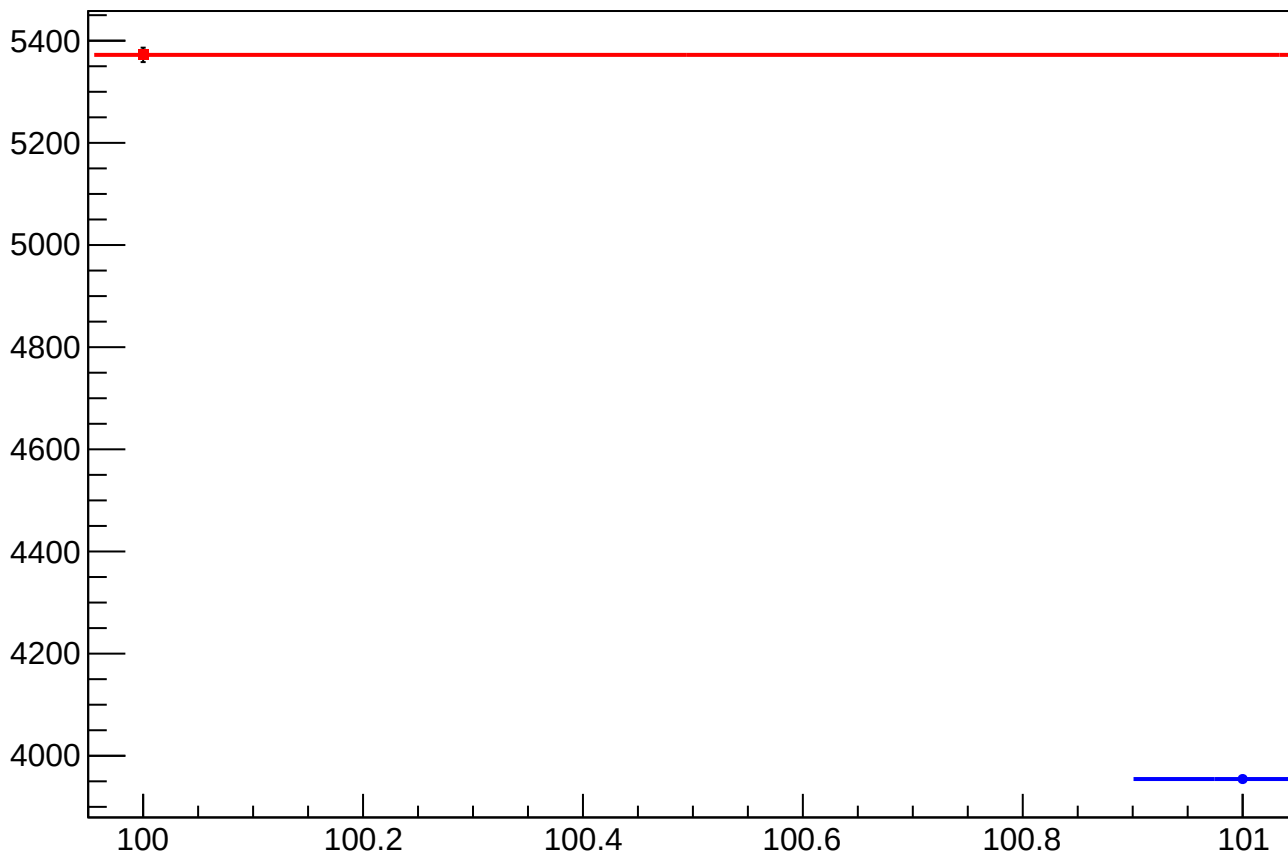
Right: 10042.034 $\pm$ 4742.927  $\chi^2$ /NDF: 3.8/1

In: 12297.304 $\pm$ 4882.786  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 10042.034 $\pm$ 4742.927  $\chi^2$ /NDF: 3.8/1

asym\_us\_dd\_at2lr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3954.486 $\pm$ 3.453  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5372.263 $\pm$ 14.114  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

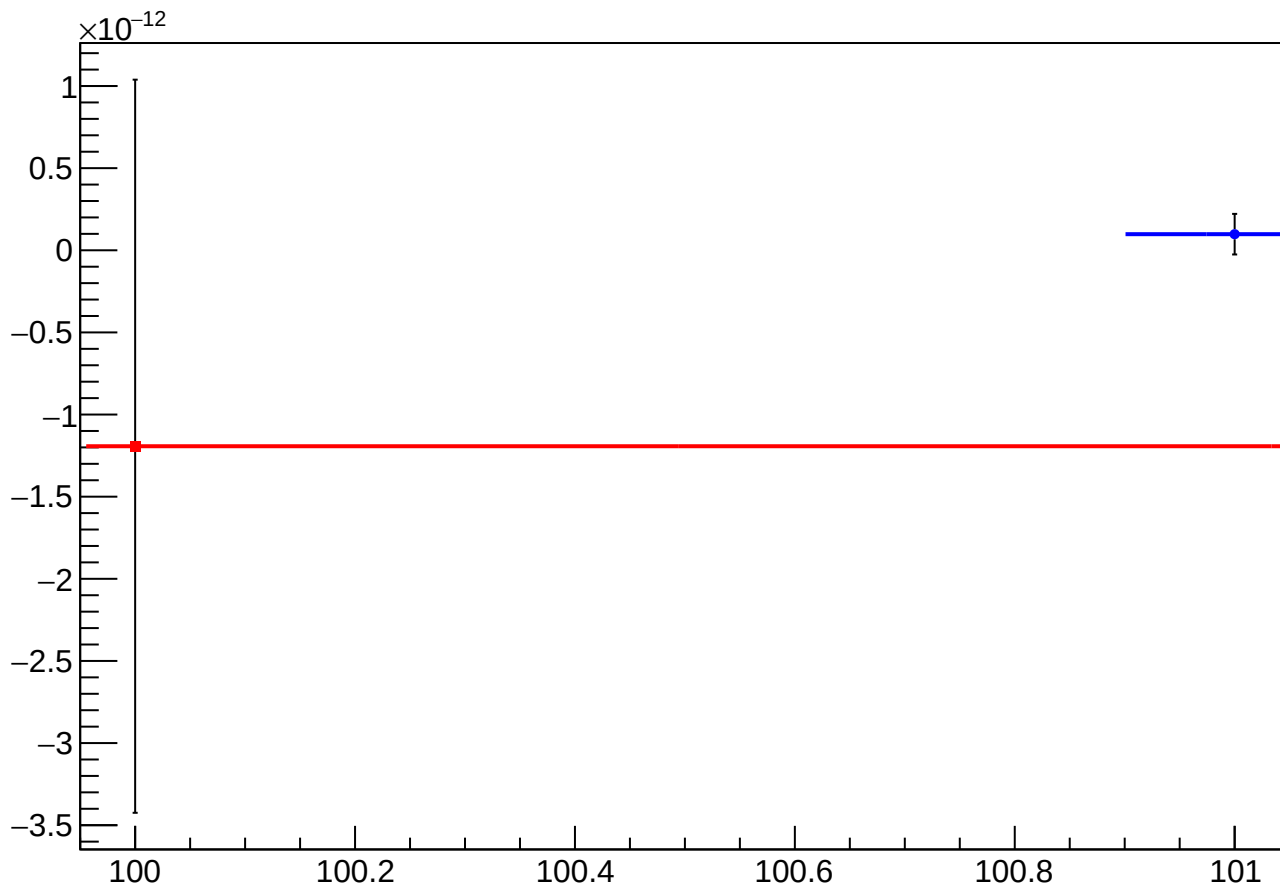
Right: 4034.542 $\pm$ 3.354  $\chi^2$ /NDF: 9521.4/1

In: 3954.486 $\pm$ 3.453  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4034.542 $\pm$ 3.354  $\chi^2$ /NDF: 9521.4/1

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

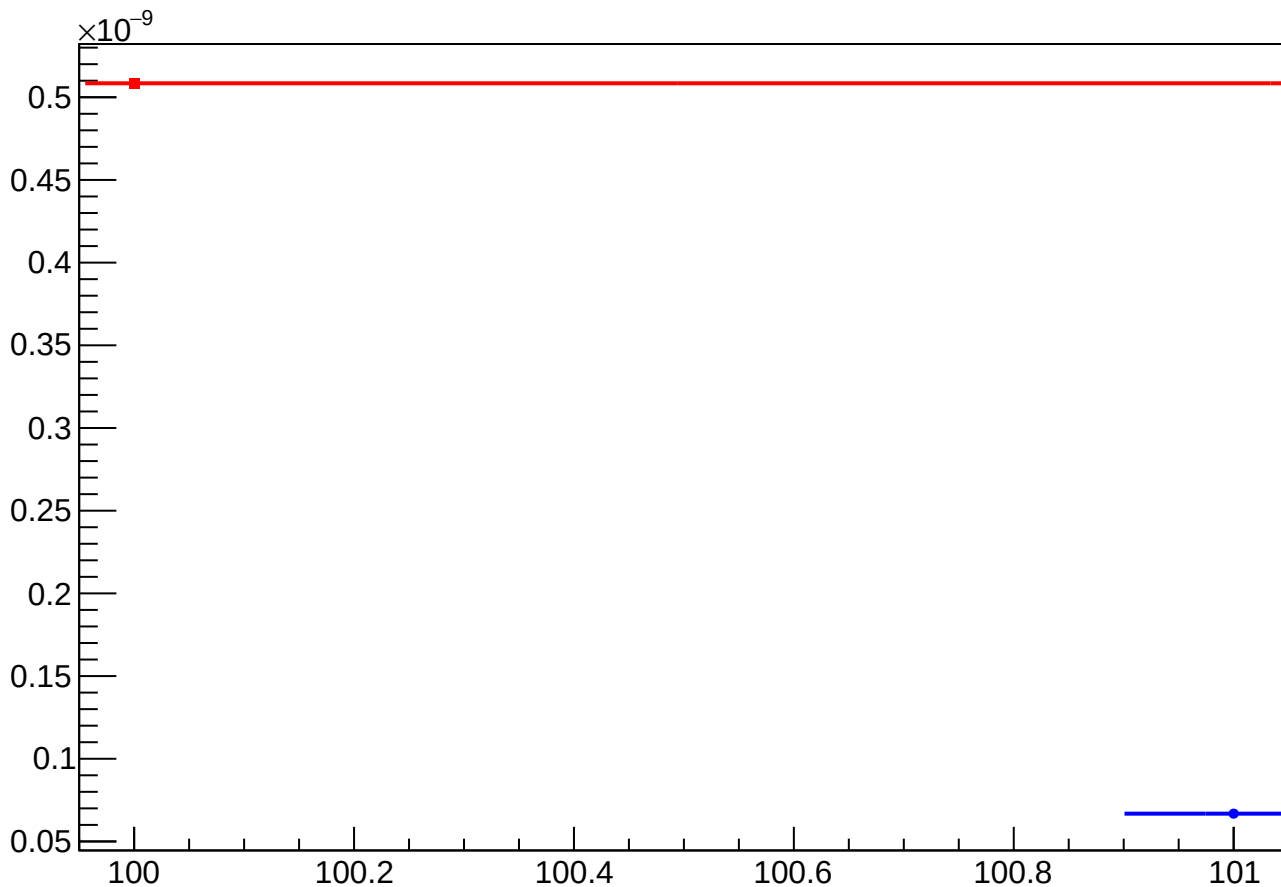
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

asym\_us\_dd\_at2lr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

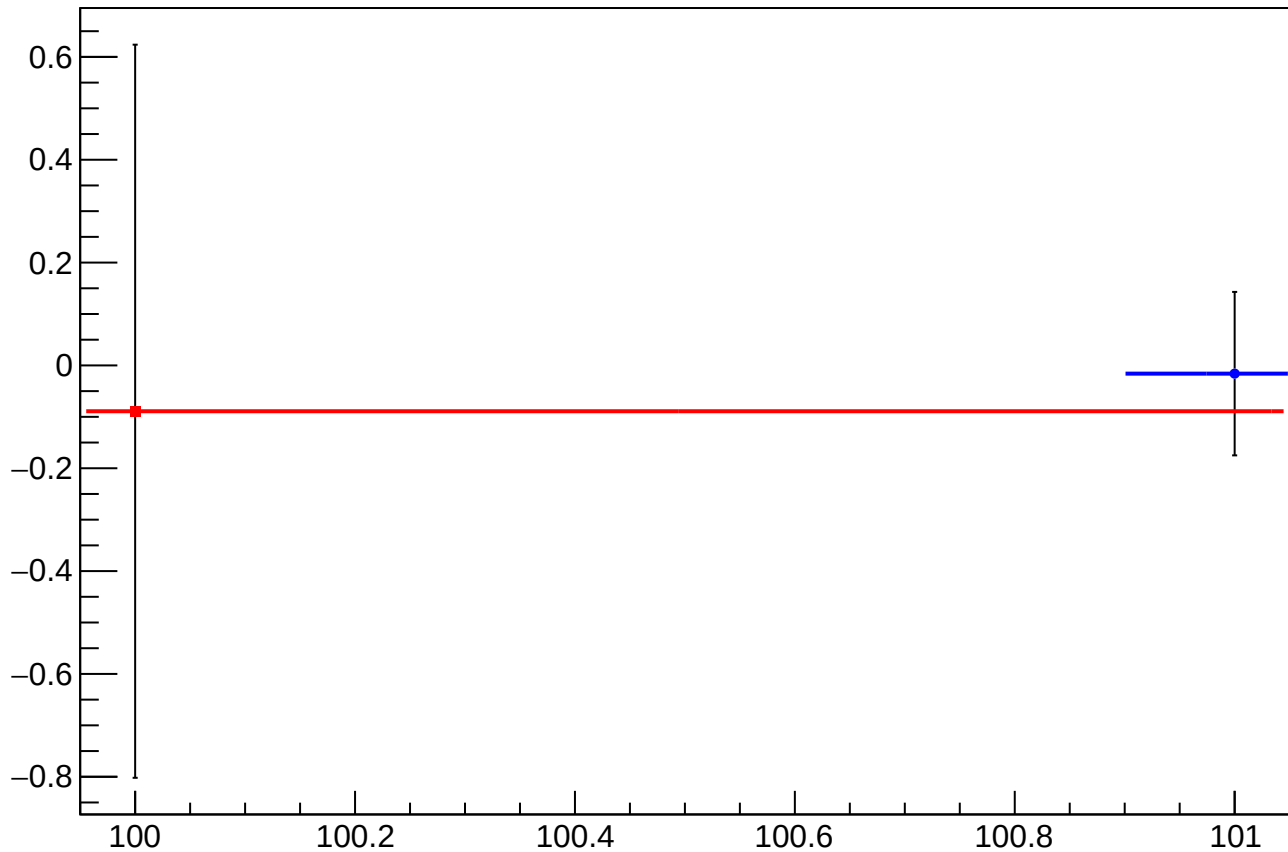
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 78094.9/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 78094.9/1

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.016 $\pm$ 0.159  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.089 $\pm$ 0.713  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

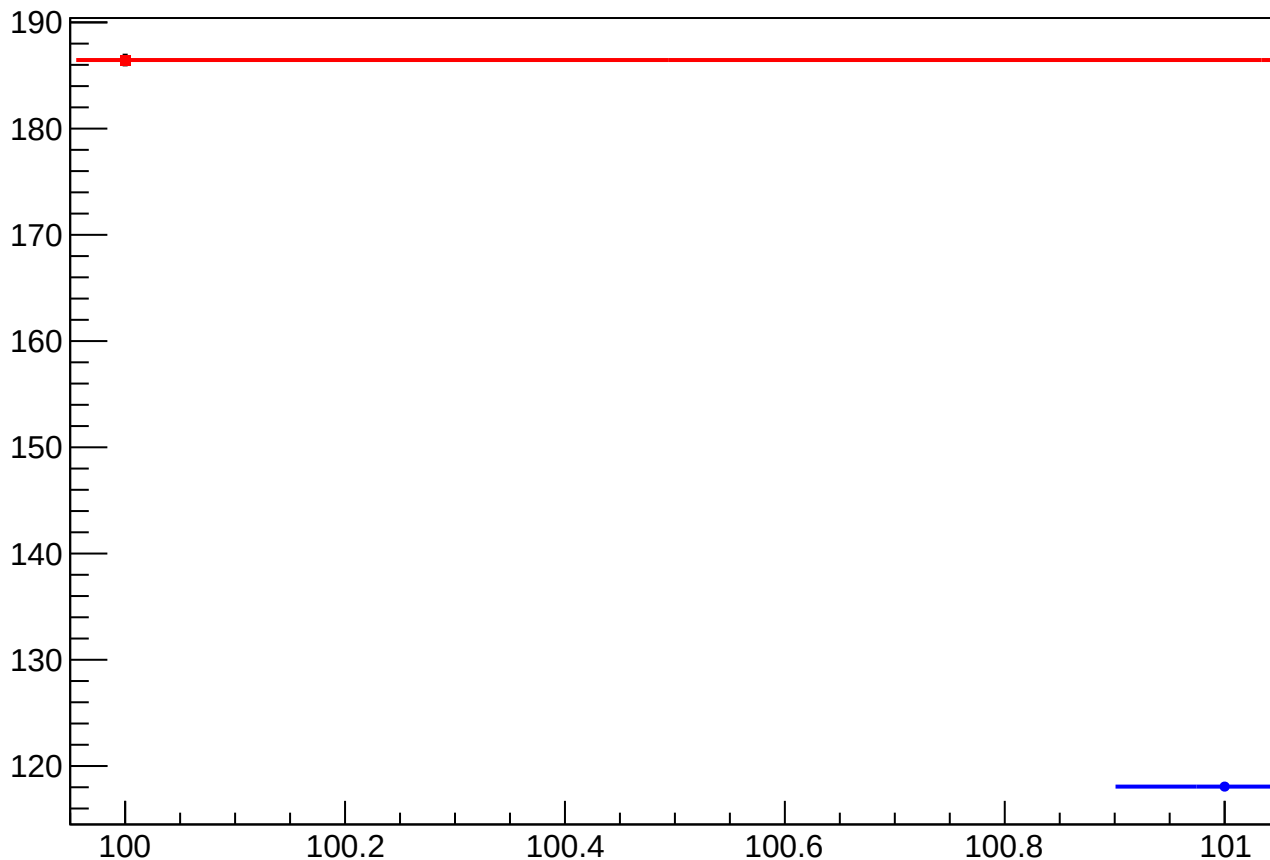
Right: -0.019 $\pm$ 0.155  $\chi^2$ /NDF: 0.0/1

In: -0.016 $\pm$ 0.159  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.019 $\pm$ 0.155  $\chi^2$ /NDF: 0.0/1

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 118.062 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 186.455 $\pm$ 0.504  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

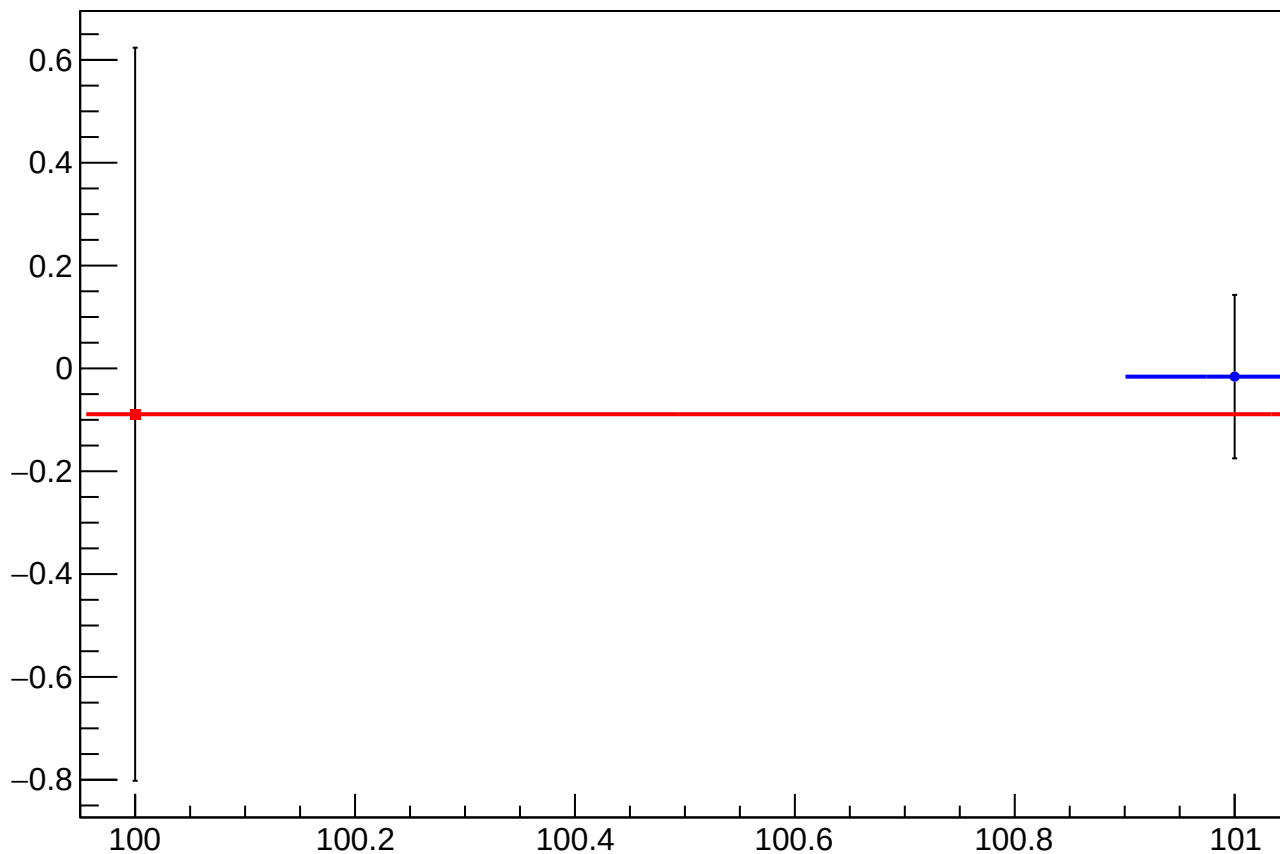
Right: 121.301 $\pm$ 0.110  $\chi^2$ /NDF: 17535.9/1

In: 118.062 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.301 $\pm$ 0.110  $\chi^2$ /NDF: 17535.9/1

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.016 $\pm$ 0.159  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.089 $\pm$ 0.713  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

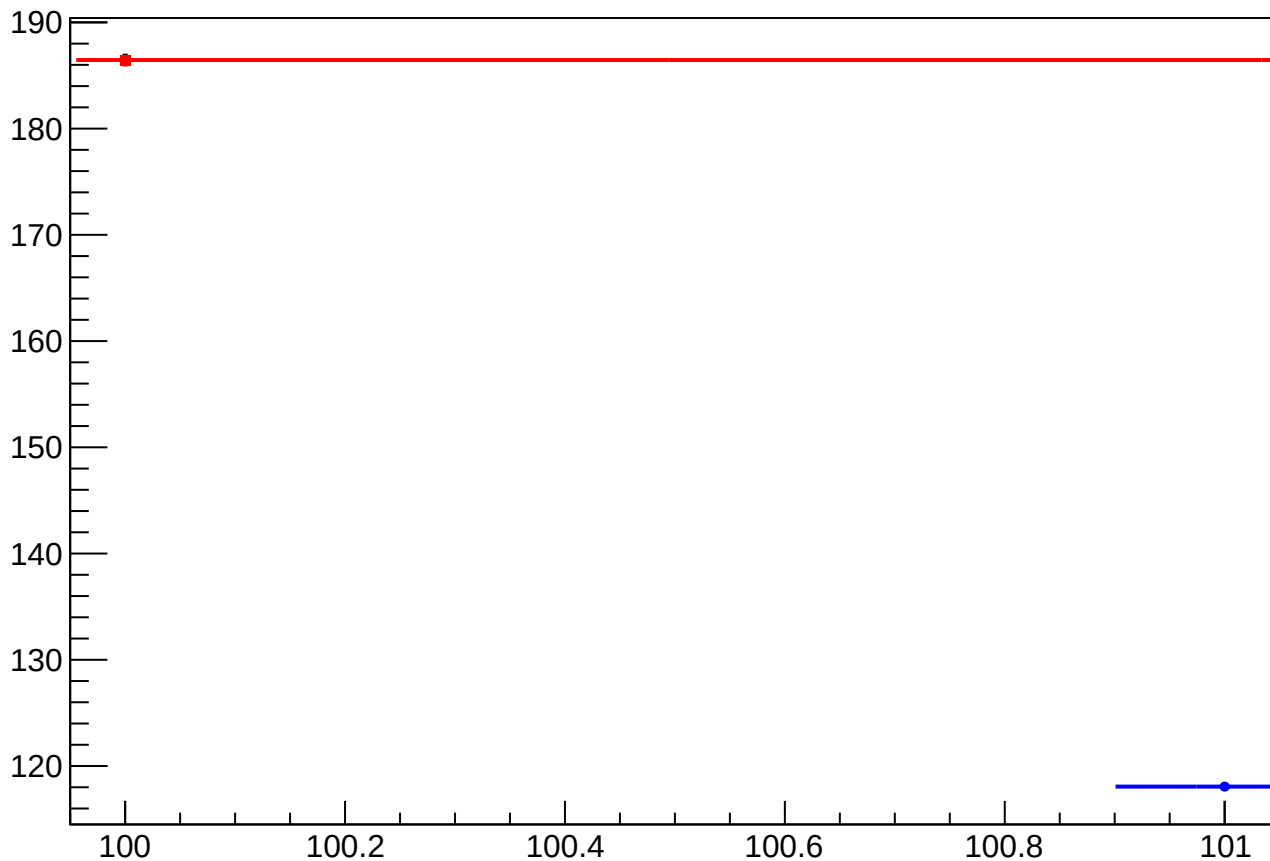
Right: -0.019 $\pm$ 0.155  $\chi^2$ /NDF: 0.0/1

In: -0.016 $\pm$ 0.159  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.019 $\pm$ 0.155  $\chi^2$ /NDF: 0.0/1

asym\_us\_dd\_at2lr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 118.062 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 186.455 $\pm$ 0.504  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 121.301 $\pm$ 0.110  $\chi^2$ /NDF: 17535.9/1

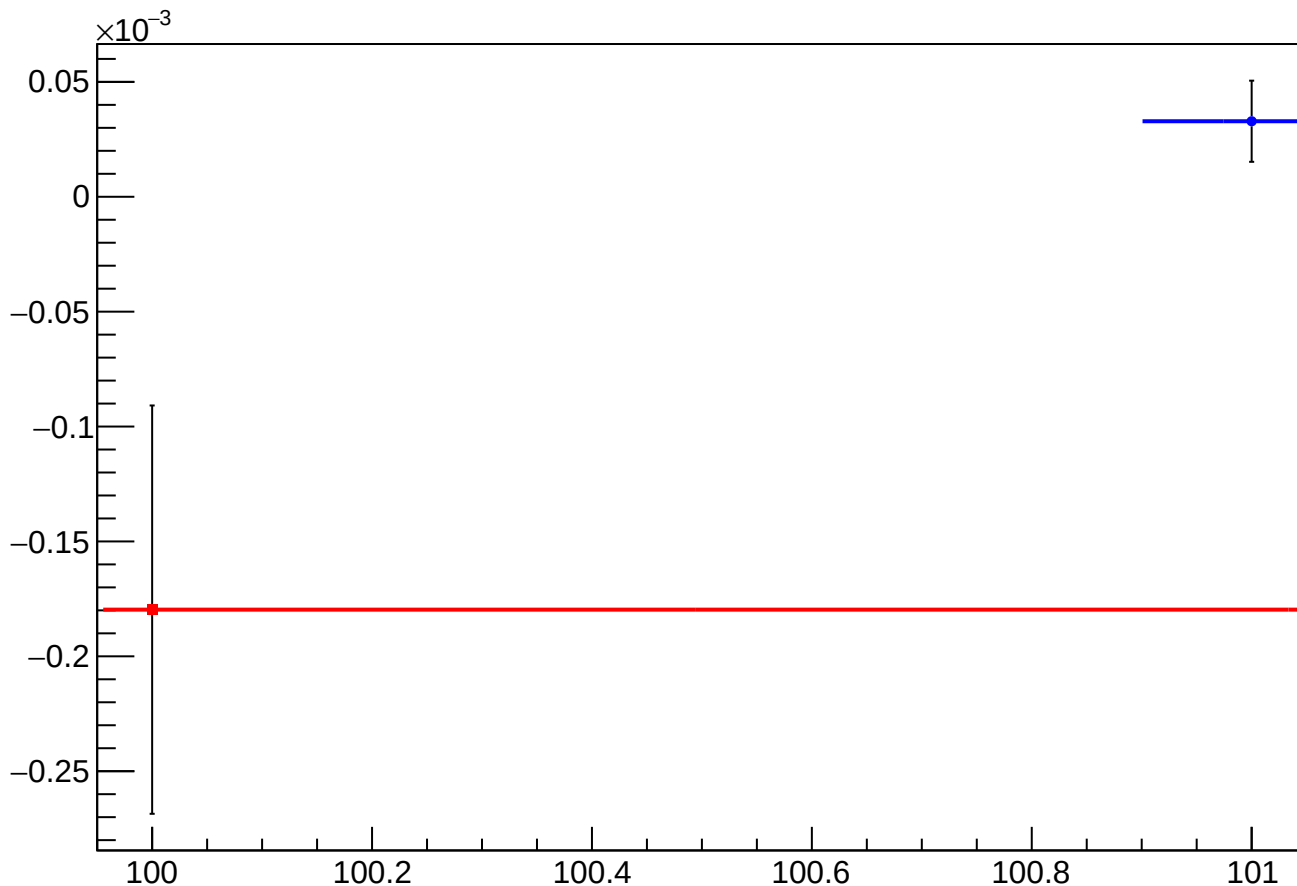
In: 118.062 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.301 $\pm$ 0.110  $\chi^2$ /NDF: 17535.9/1



asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

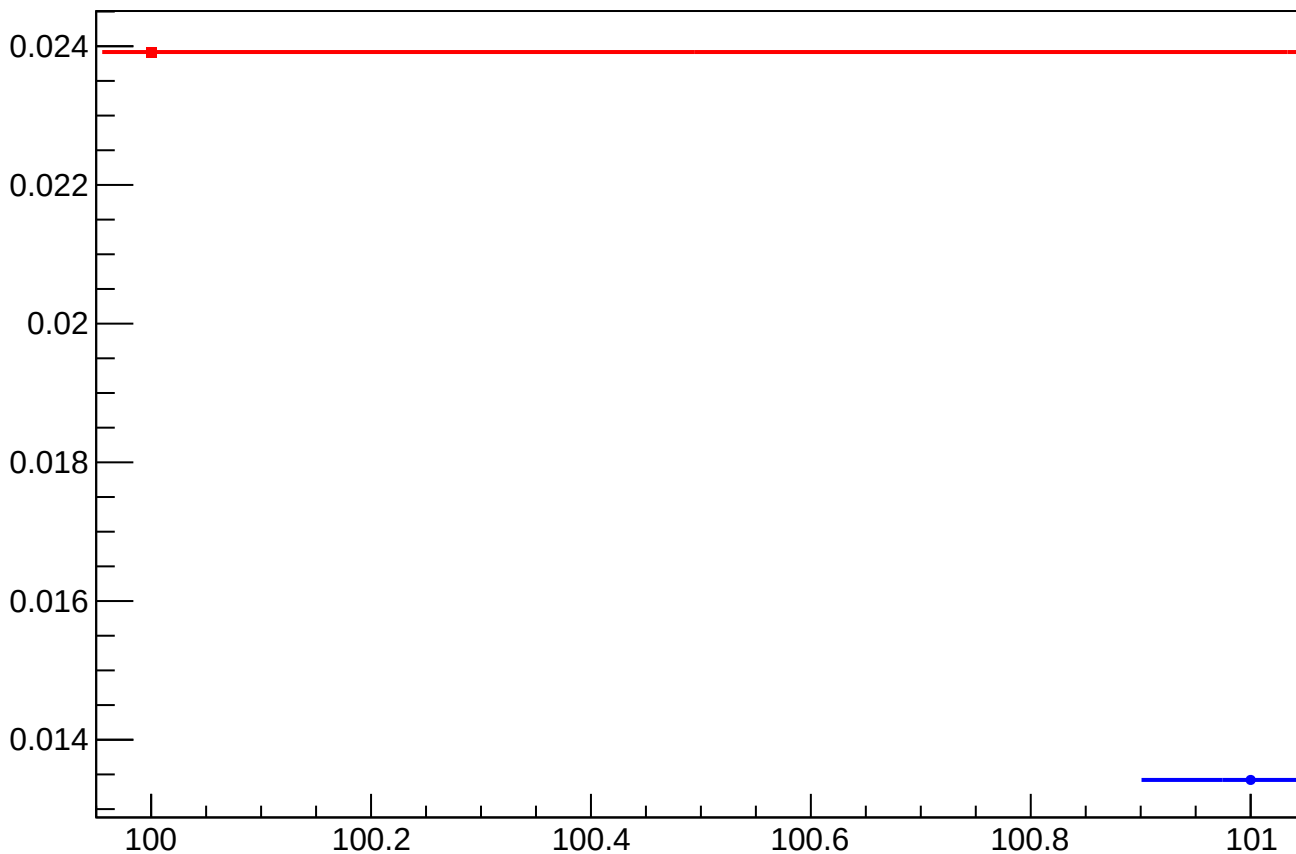
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.5/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

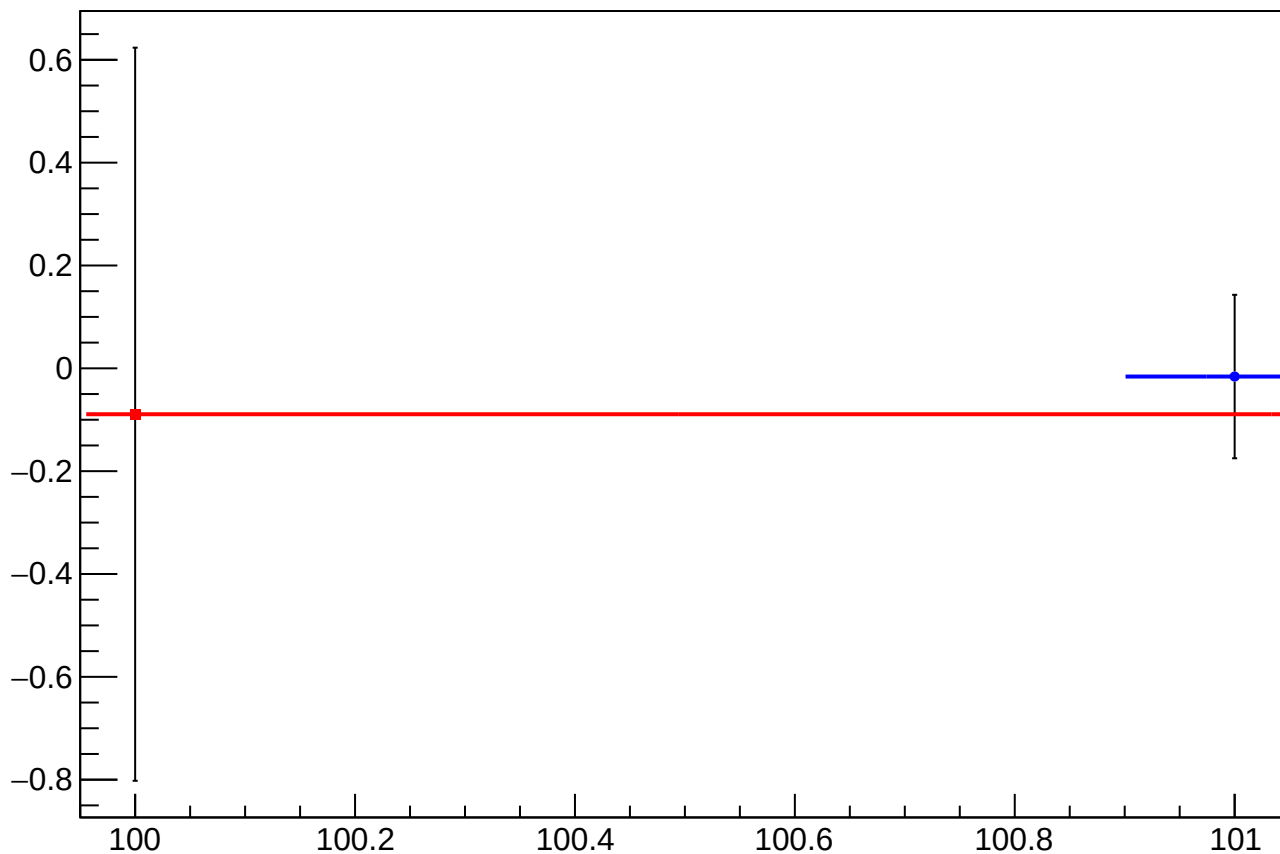
Right: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 26846.4/1

In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 26846.4/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.016 $\pm$ 0.159  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.089 $\pm$ 0.713  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

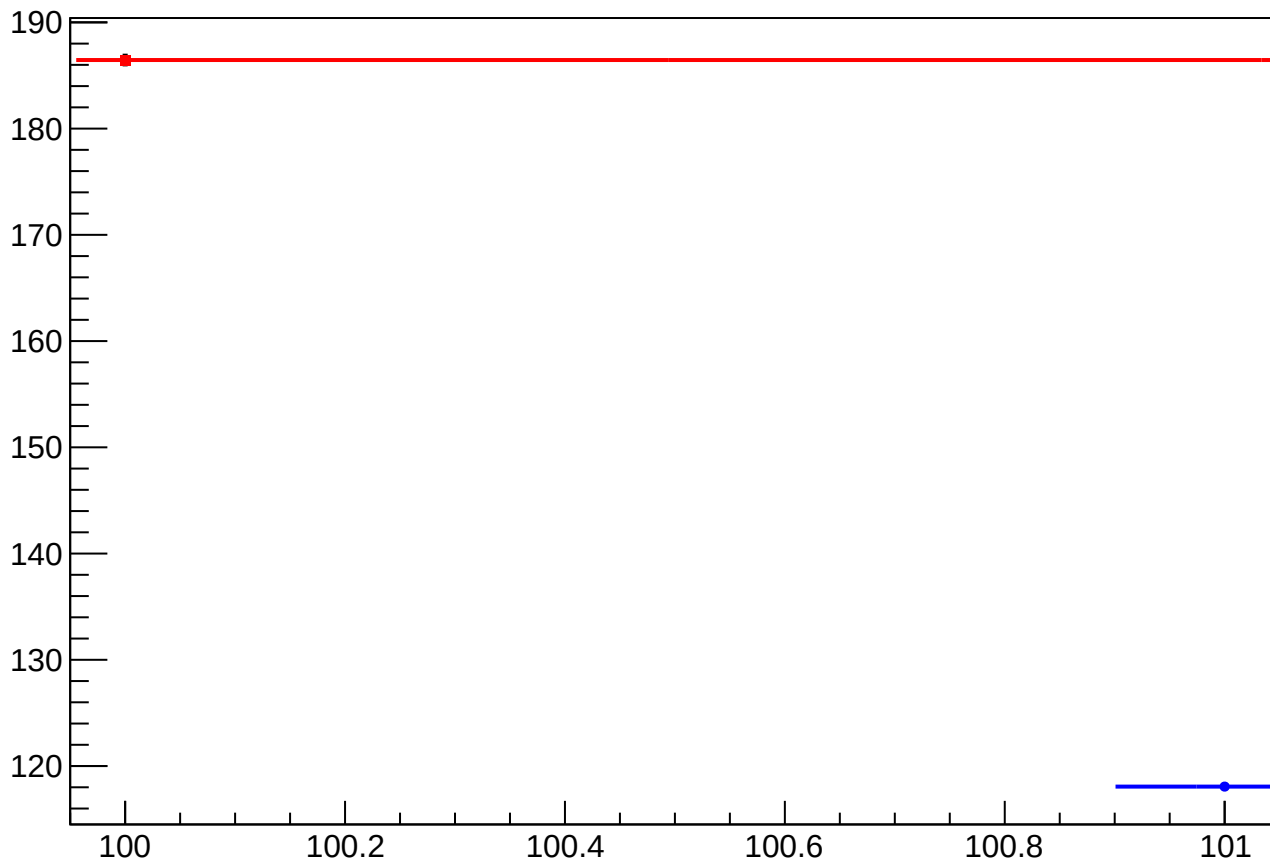
Right: -0.019 $\pm$ 0.155  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.016 $\pm$ 0.159  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.019 $\pm$ 0.155  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 118.064 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 186.455 $\pm$ 0.504  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

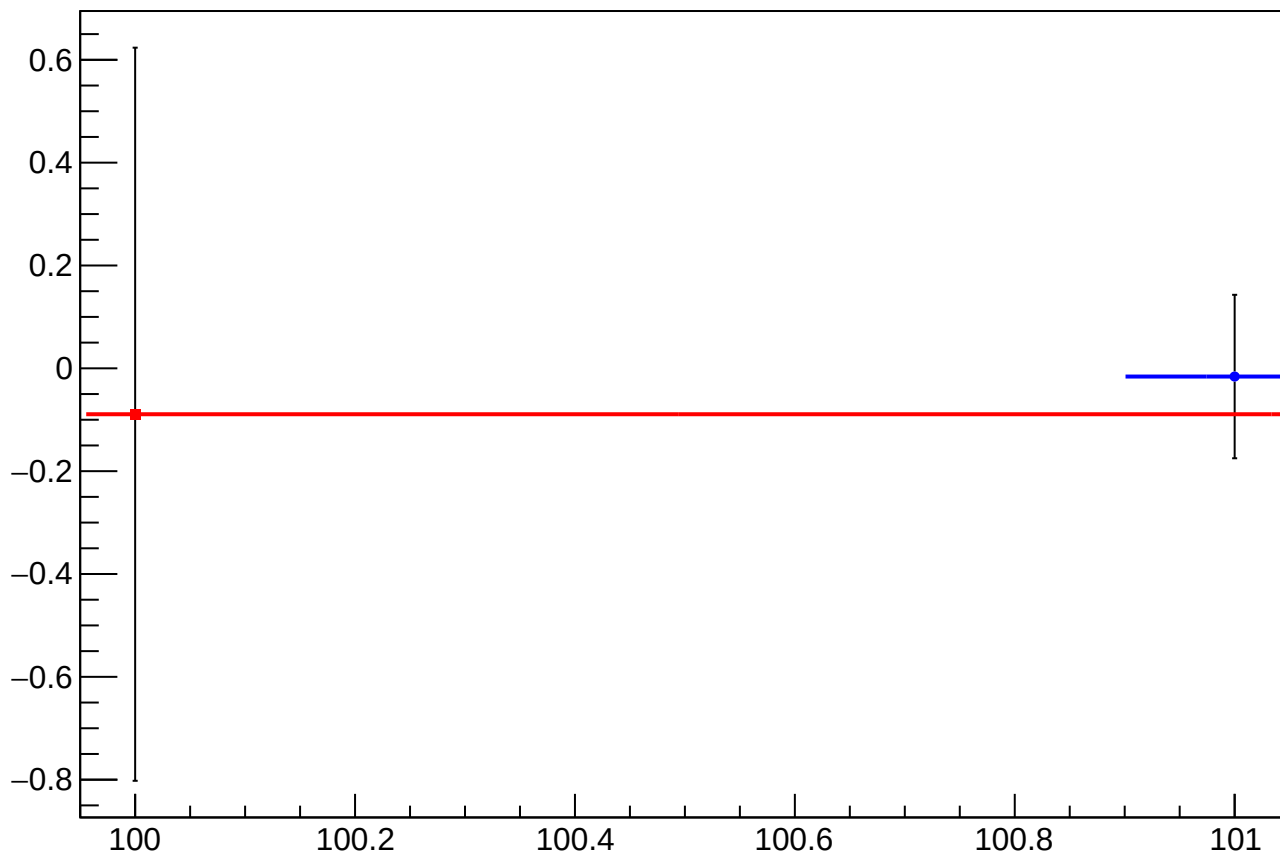
Right: 121.303 $\pm$ 0.110  $\chi^2$ /NDF: 17534.2/1

In: 118.064 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.303 $\pm$ 0.110  $\chi^2$ /NDF: 17534.2/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.016 $\pm$ 0.159  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.089 $\pm$ 0.713  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

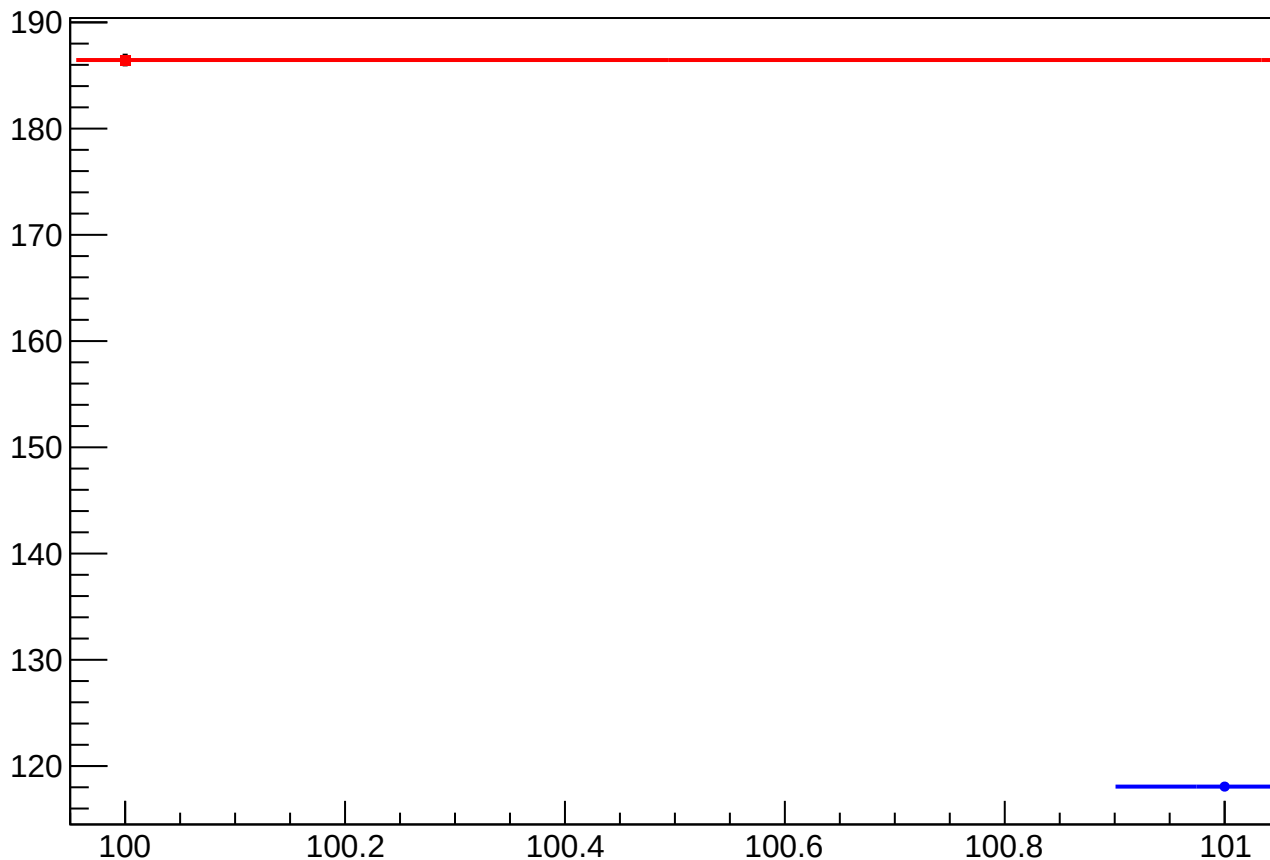
Right: -0.019 $\pm$ 0.155  $\chi^2$ /NDF: 0.0/1

In: -0.016 $\pm$ 0.159  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.019 $\pm$ 0.155  $\chi^2$ /NDF: 0.0/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 118.064 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 186.455 $\pm$ 0.504  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

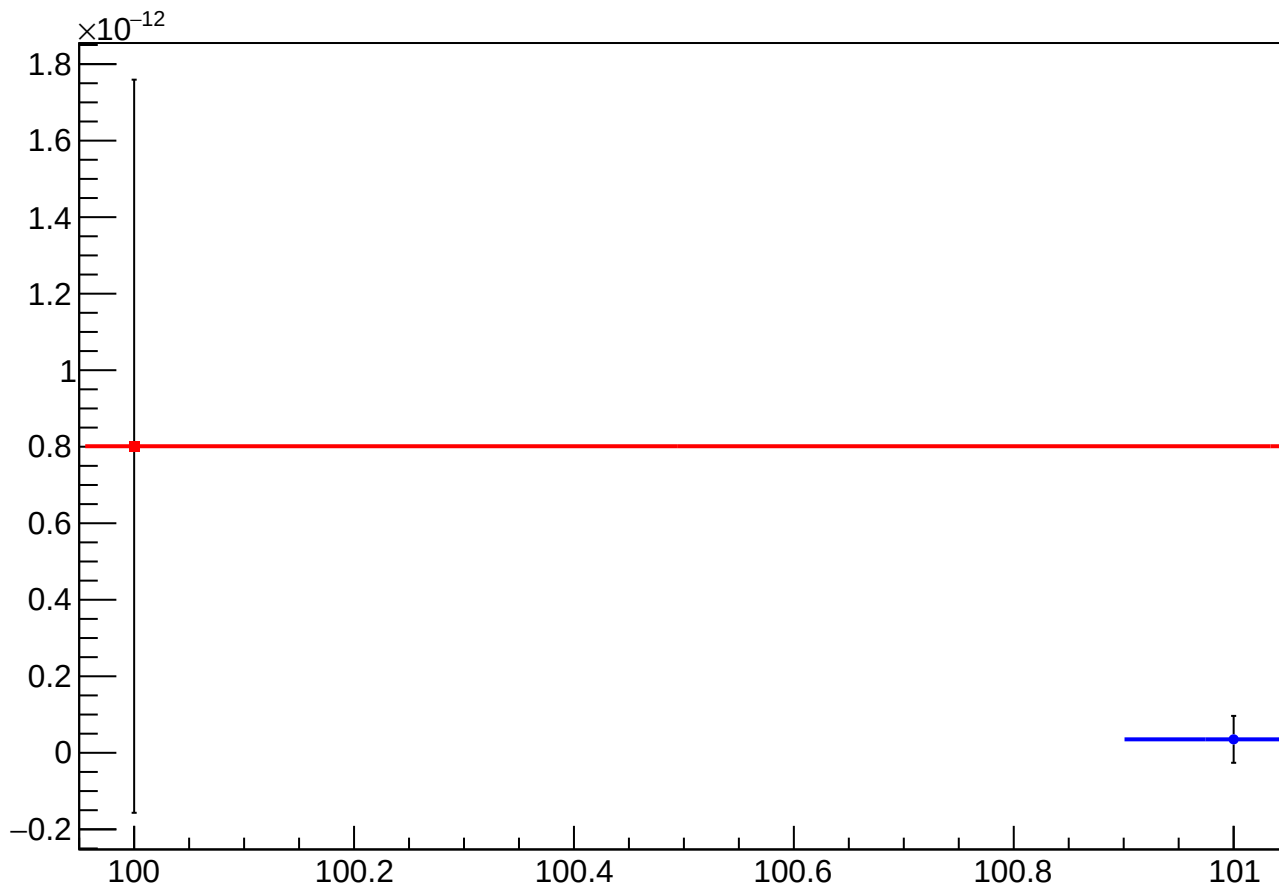
Right: 121.303 $\pm$ 0.110  $\chi^2$ /NDF: 17534.2/1

In: 118.064 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.303 $\pm$ 0.110  $\chi^2$ /NDF: 17534.2/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

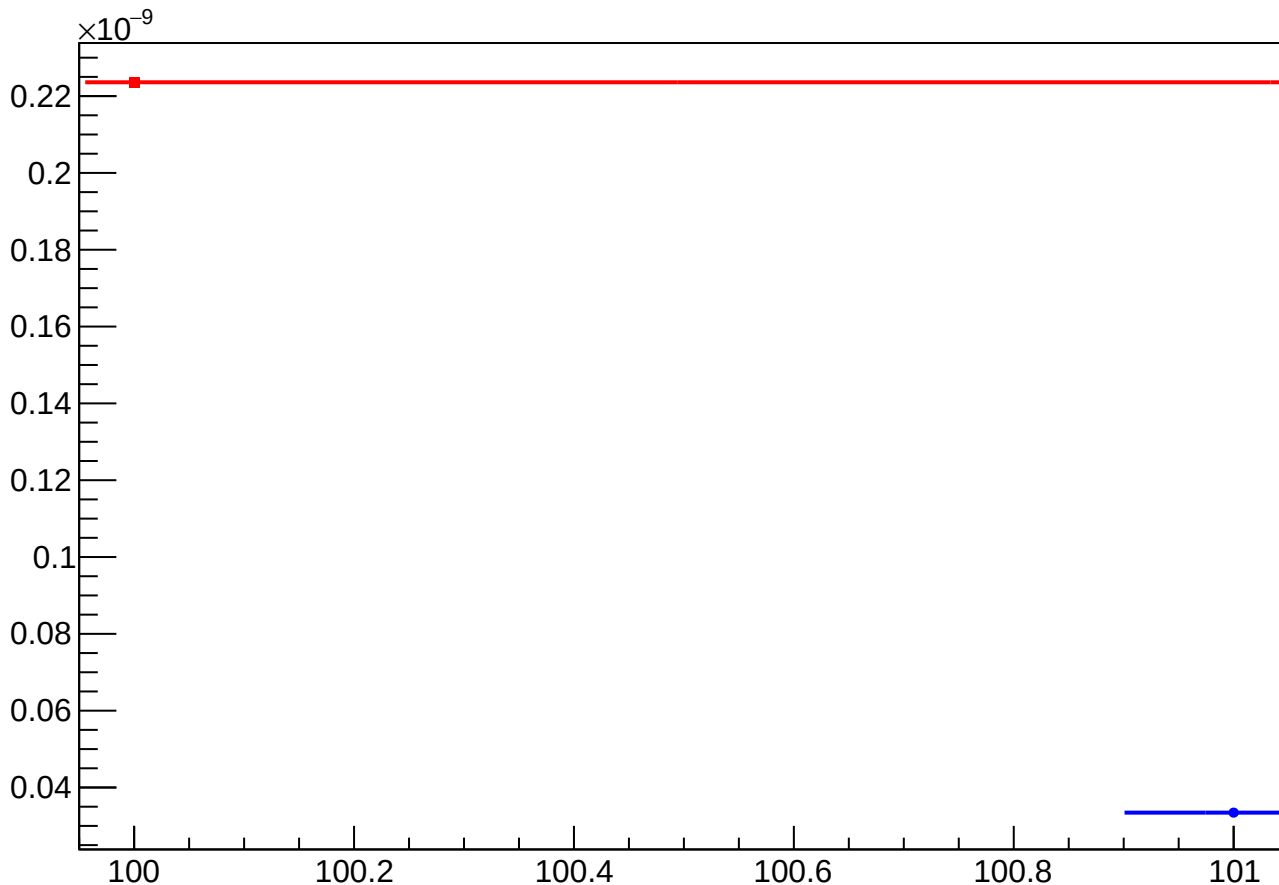
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_us\_dd\_at2lr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 78456.1/1

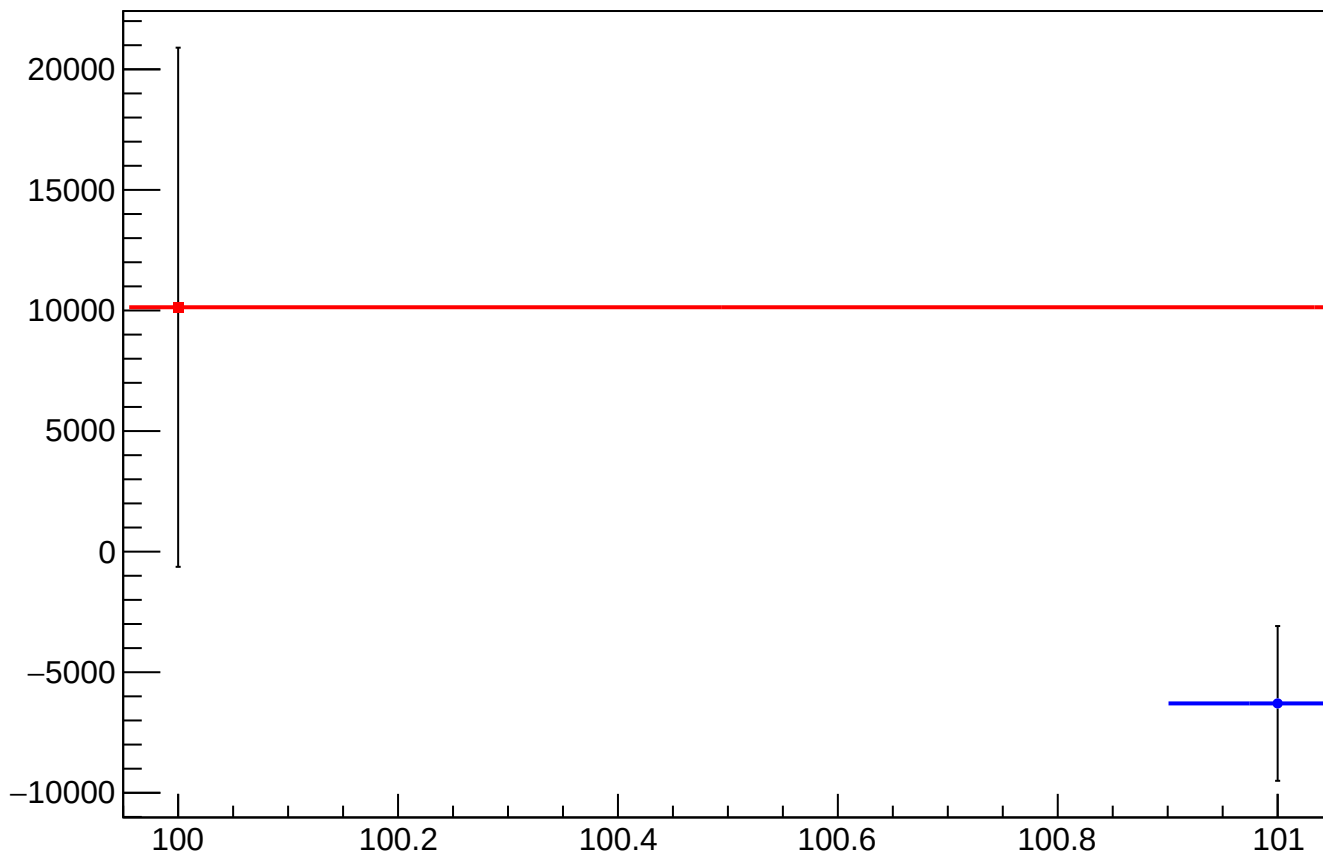
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 78456.1/1



reg\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -6293.333+/-3208.647  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10134.094+/-10763.652  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

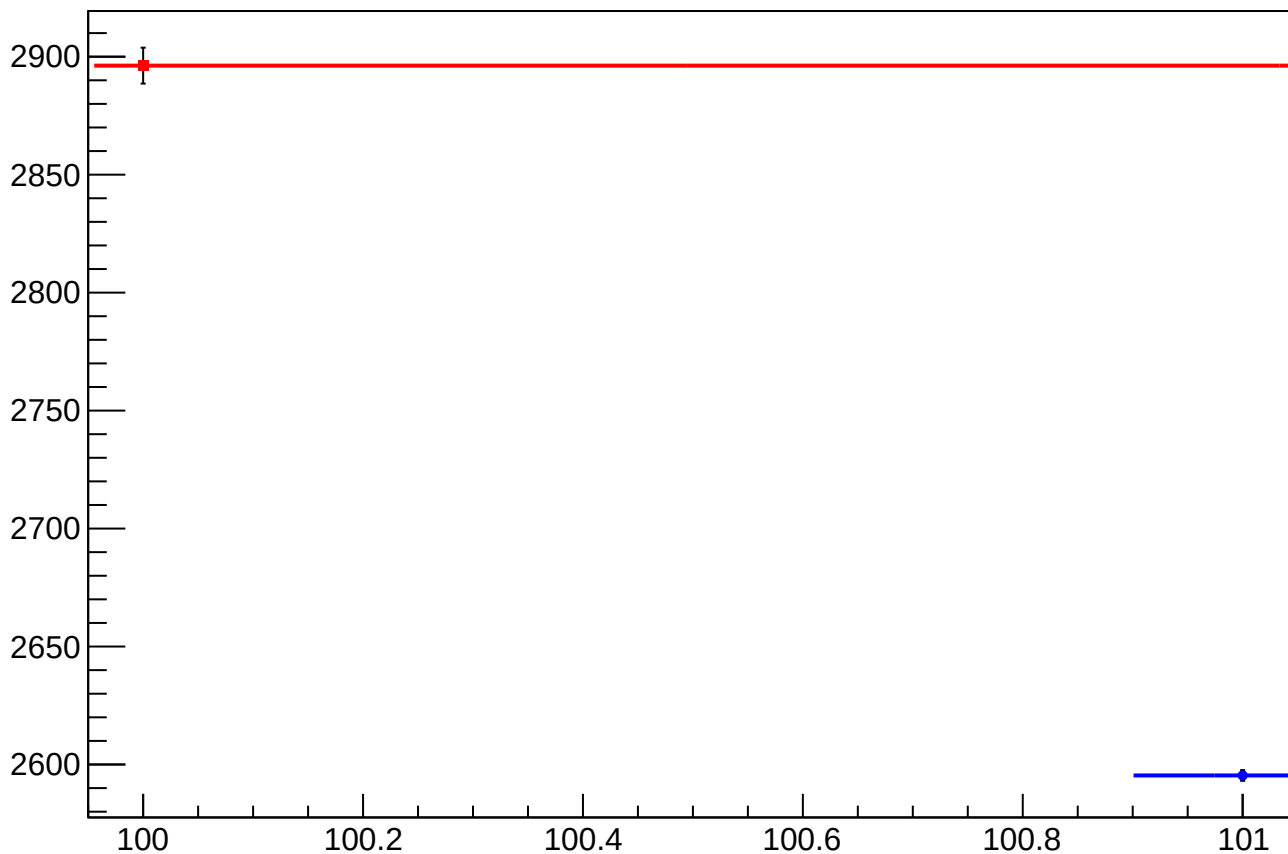
Right: -4952.667+/-3074.930  $\chi^2/\text{NDF}$ : 2.1/1

In: -6293.333+/-3208.647  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4952.667+/-3074.930  $\chi^2/\text{NDF}$ : 2.1/1

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 2595.361+/-2.269  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2896.216+/-7.611  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

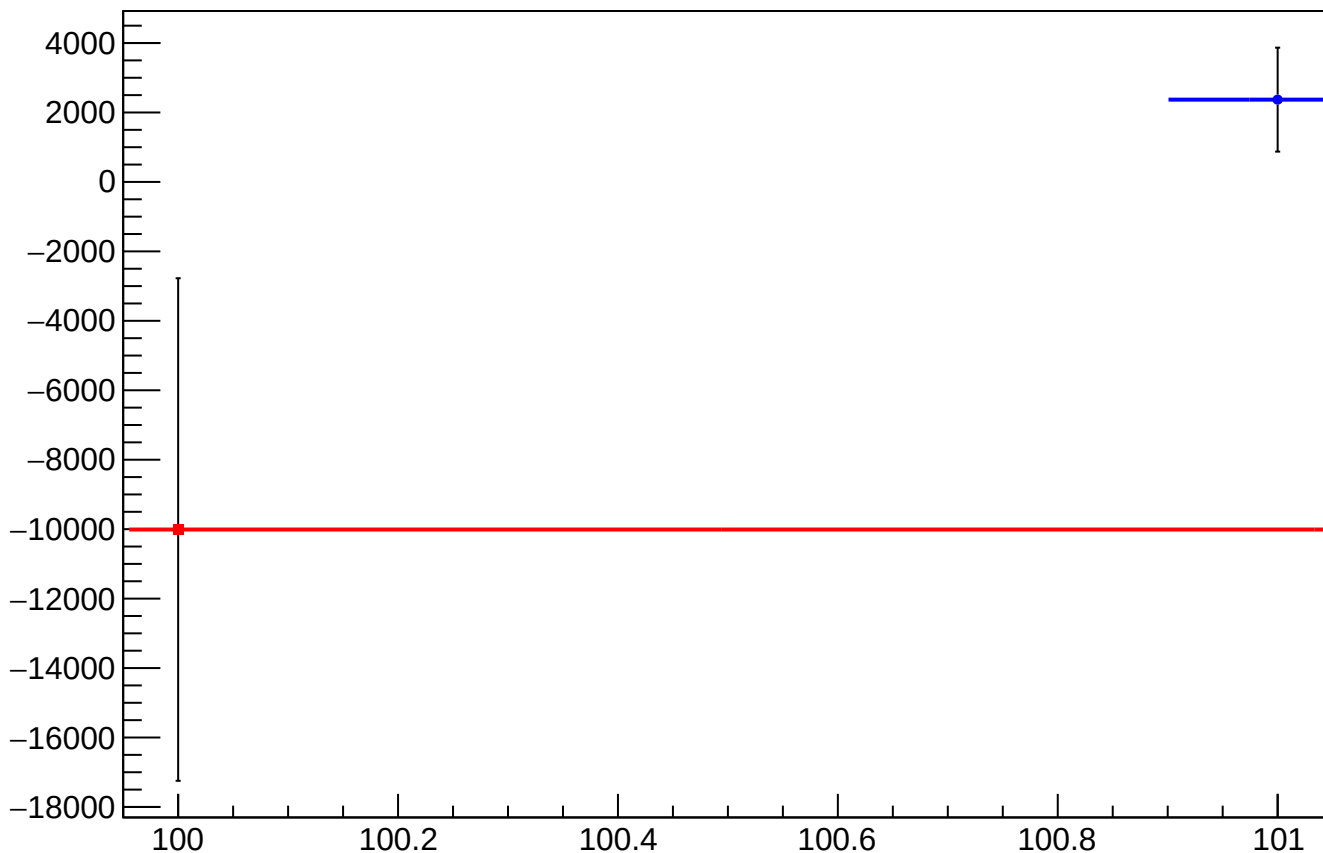
Right: 2619.914+/-2.174  $\chi^2/\text{NDF}$ : 1435.0/1

In: 2595.361+/-2.269  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2619.914+/-2.174  $\chi^2/\text{NDF}$ : 1435.0/1

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 2369.805 $\pm$ 1496.657  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10009.997 $\pm$ 7236.513  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

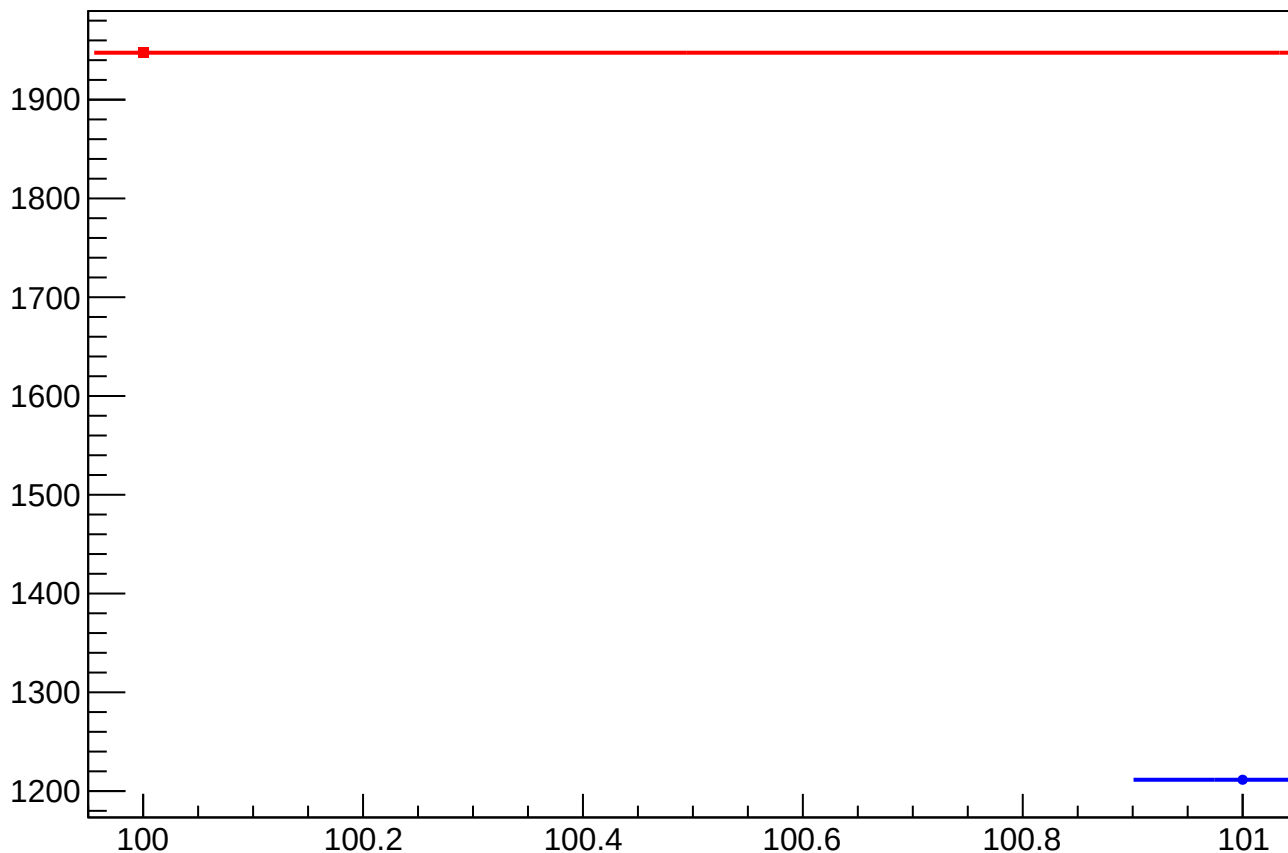
Right: 1861.986 $\pm$ 1465.639  $\chi^2/\text{NDF}$ : 2.8/1

In: 2369.805 $\pm$ 1496.657  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1861.986 $\pm$ 1465.639  $\chi^2/\text{NDF}$ : 2.8/1

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1211.475+/-1.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1947.529+/-5.117  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

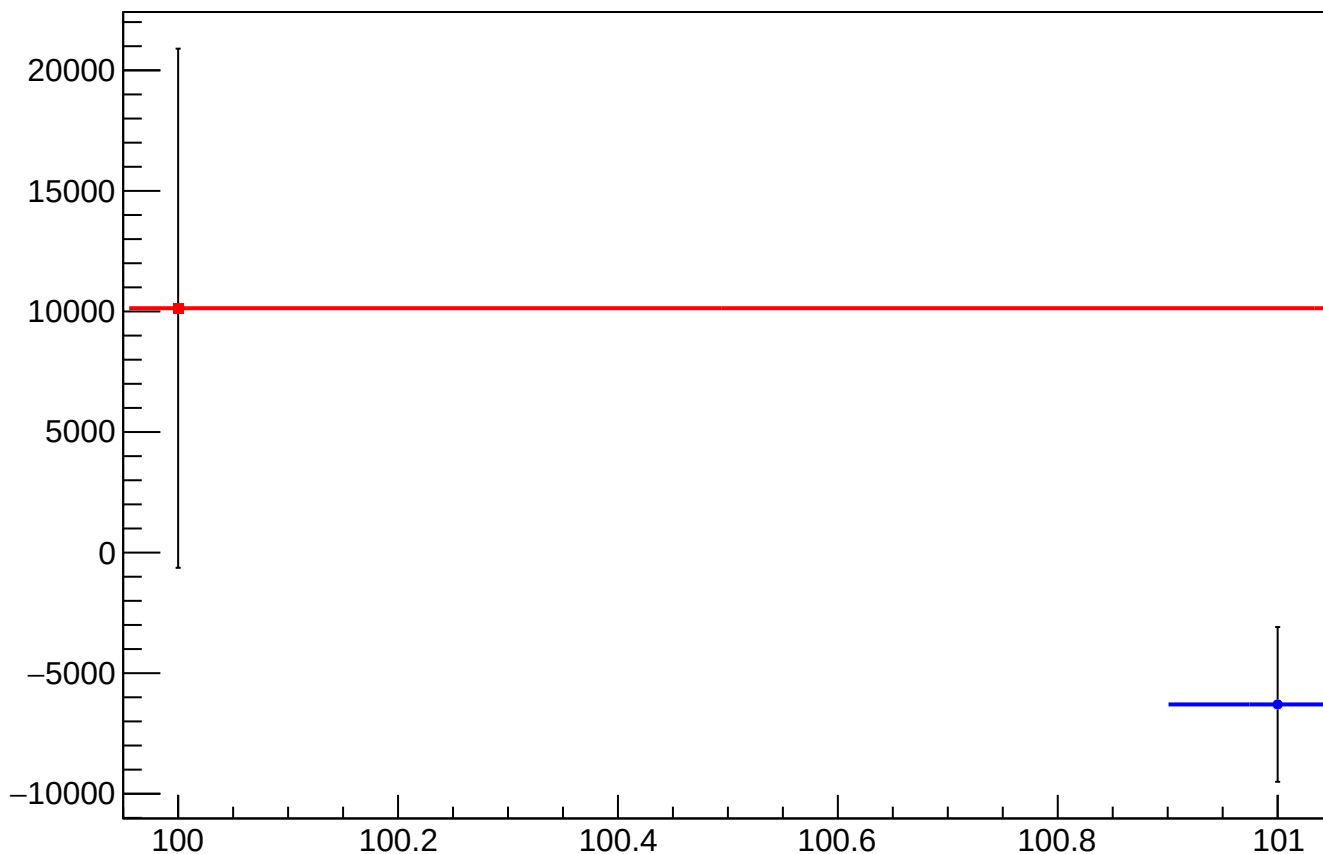
Right: 1241.668+/-1.036  $\chi^2/\text{NDF}$ : 19842.7/1

In: 1211.475+/-1.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1241.668+/-1.036  $\chi^2/\text{NDF}$ : 19842.7/1

cor\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -6295.698+/-3208.650  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10134.262+/-10763.652  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

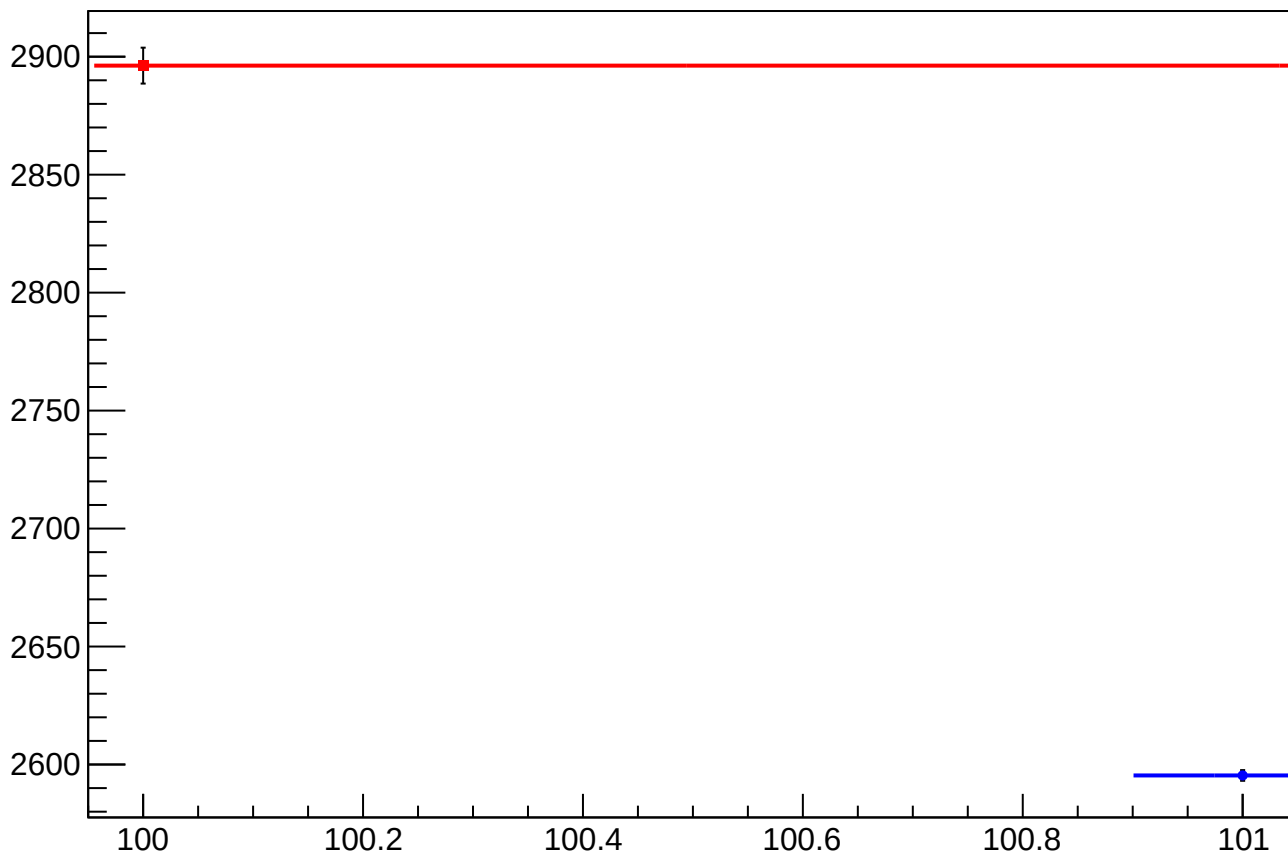
Right: -4954.823+/-3074.932  $\chi^2/\text{NDF}$ : 2.1/1

In: -6295.698+/-3208.650  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4954.823+/-3074.932  $\chi^2/\text{NDF}$ : 2.1/1

cor\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 2595.362 $\pm$ 2.269  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2896.216 $\pm$ 7.611  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

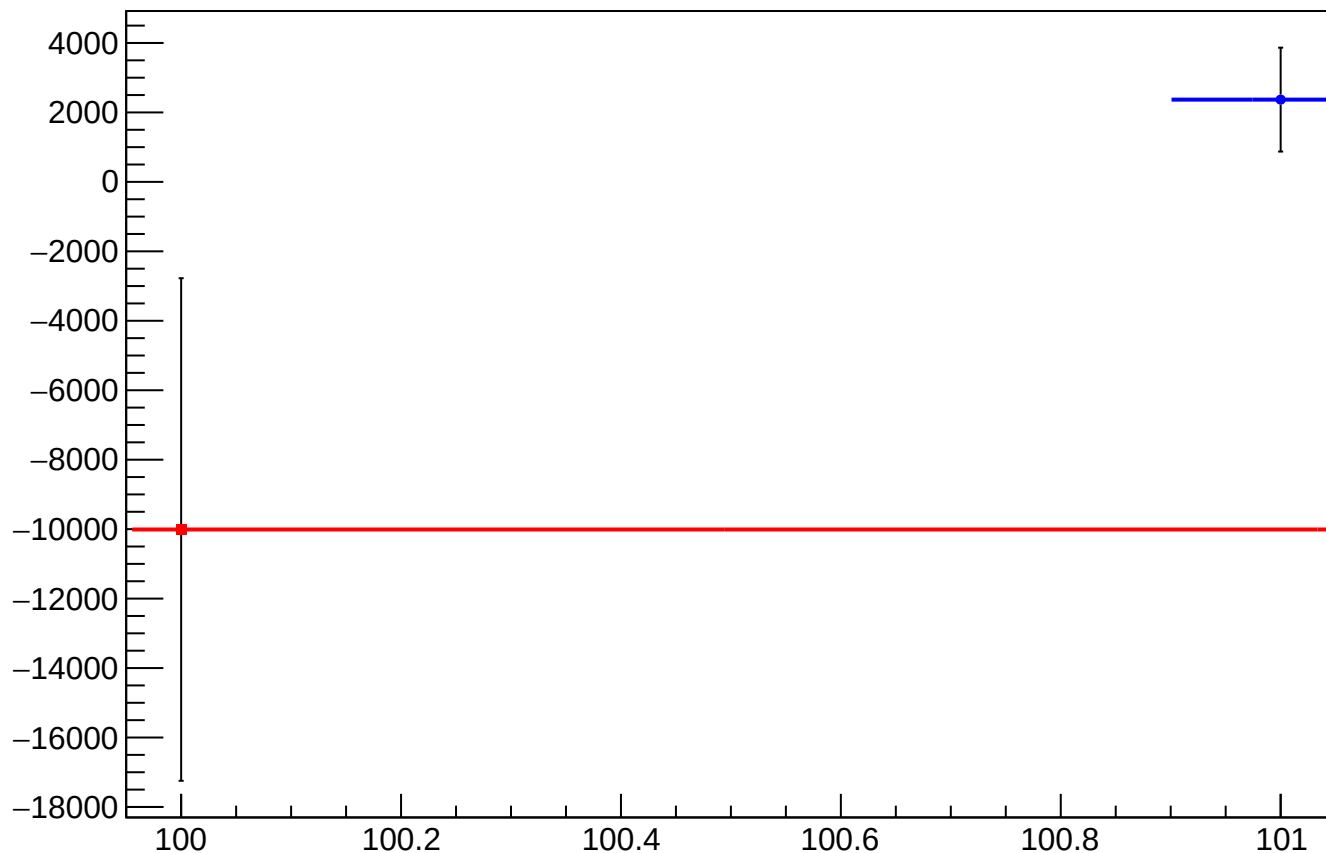
Right: 2619.915 $\pm$ 2.174  $\chi^2$ /NDF: 1435.0/1

In: 2595.362 $\pm$ 2.269  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2619.915 $\pm$ 2.174  $\chi^2$ /NDF: 1435.0/1

asym\_us\_dd\_at2lr\_dd\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2368.677+/-1495.883  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10009.891+/-7236.478  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

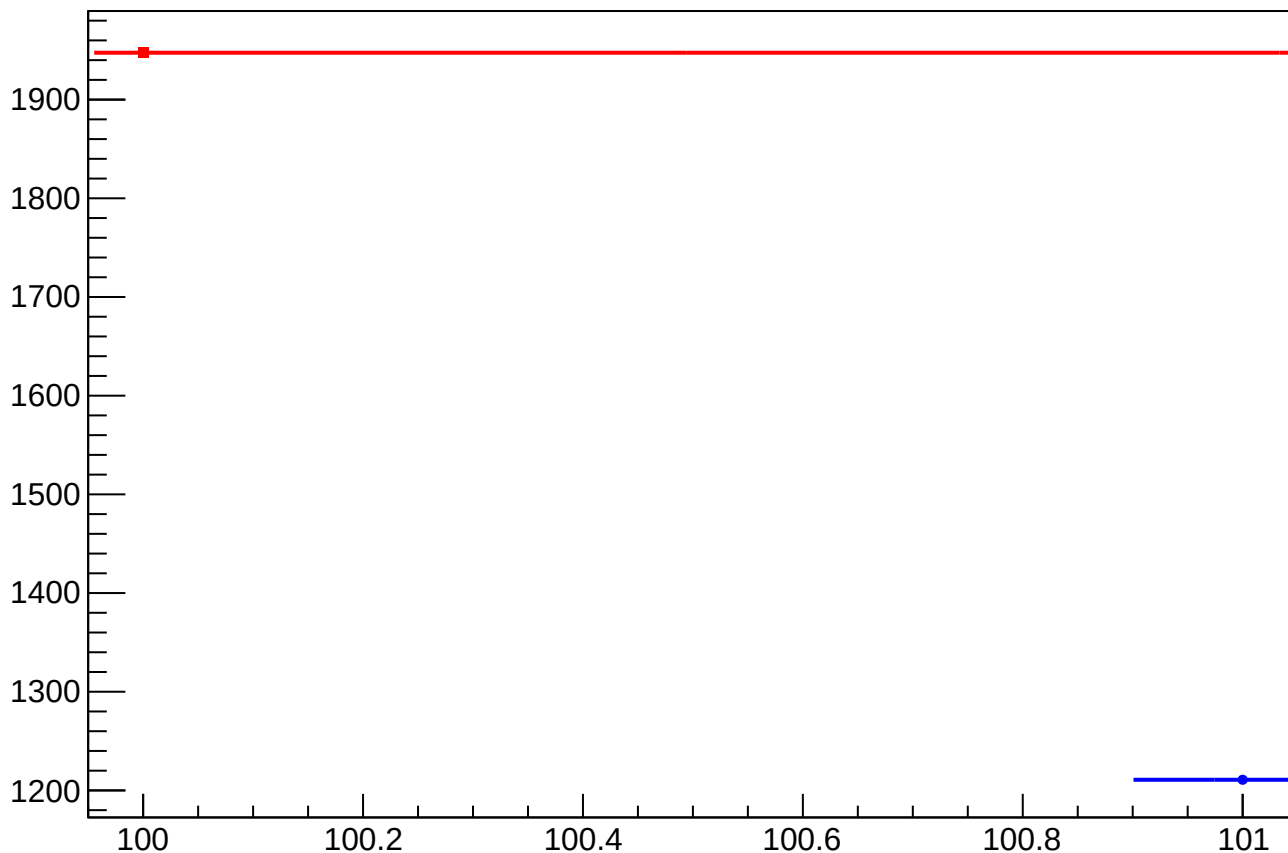
Right: 1861.407+/-1464.912  $\chi^2/\text{NDF}$ : 2.8/1

In: 2368.677+/-1495.883  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1861.407+/-1464.912  $\chi^2/\text{NDF}$ : 2.8/1

asym\_us\_dd\_at2lr\_dd\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1210.805 $\pm$ 1.058  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1947.520 $\pm$ 5.117  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1240.996 $\pm$ 1.036  $\chi^2$ /NDF: 19879.3/1

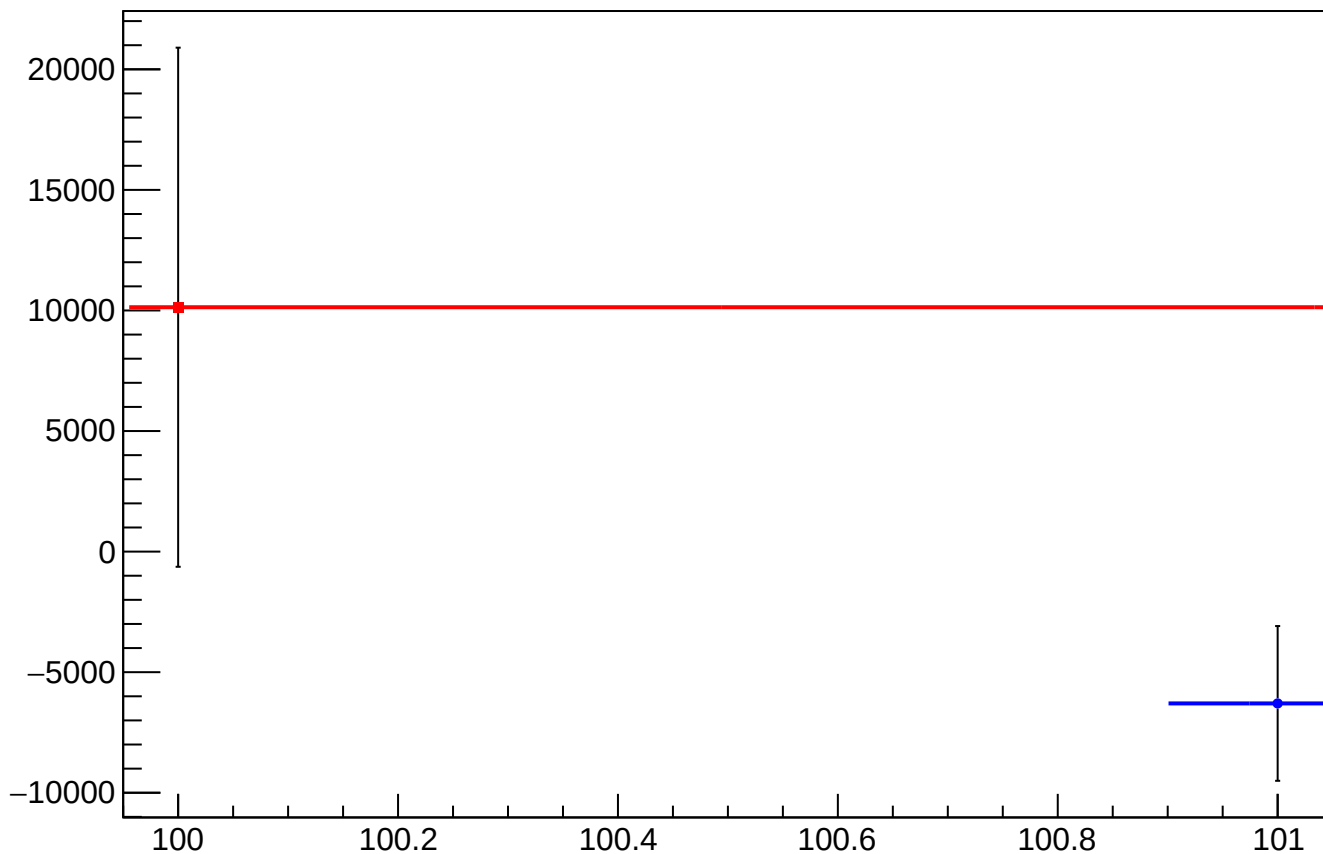
In: 1210.805 $\pm$ 1.058  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1240.996 $\pm$ 1.036  $\chi^2$ /NDF: 19879.3/1



eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -6295.698+/-3208.650  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10134.262+/-10763.652  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

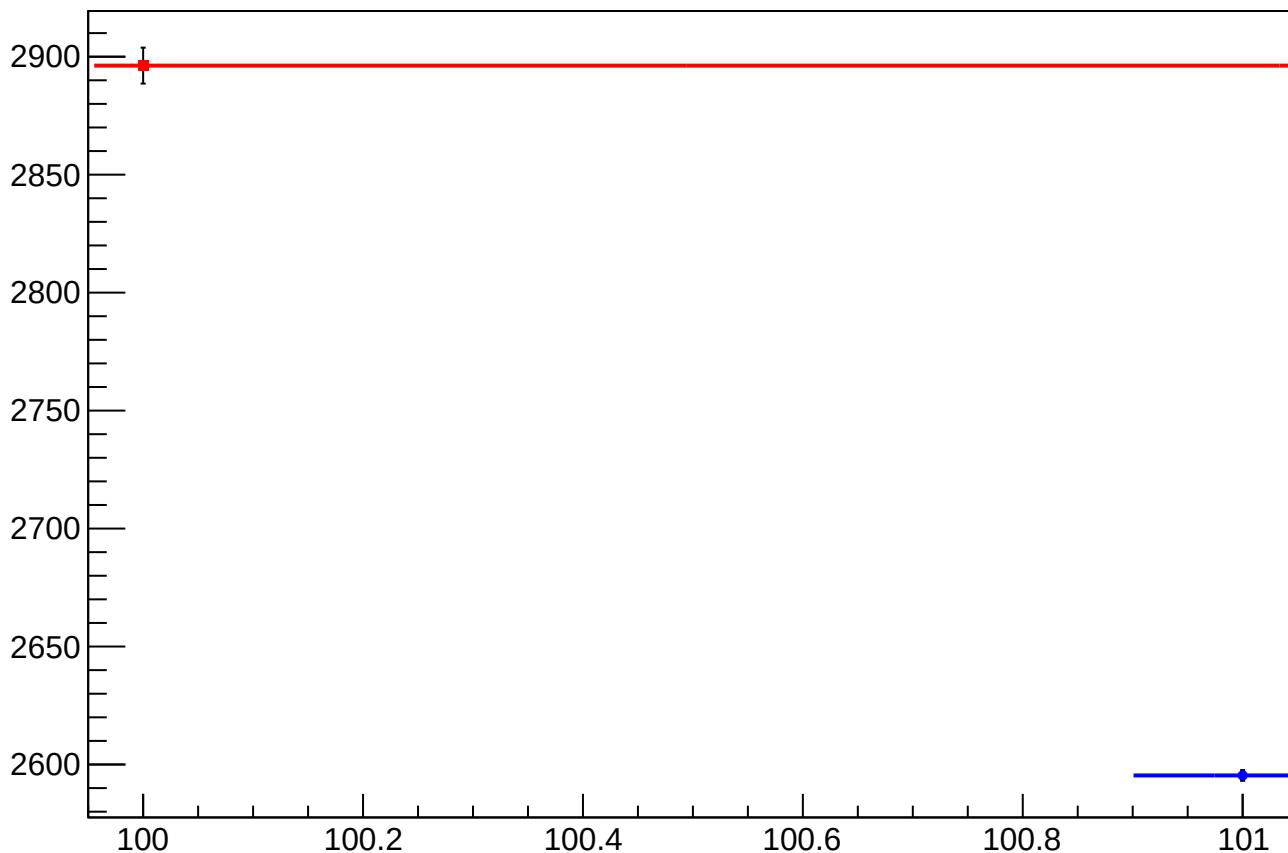
Right: -4954.823+/-3074.932  $\chi^2/\text{NDF}$ : 2.1/1

In: -6295.698+/-3208.650  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4954.823+/-3074.932  $\chi^2/\text{NDF}$ : 2.1/1

eigen\_cor\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 2595.362 $\pm$ 2.269  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2896.216 $\pm$ 7.611  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

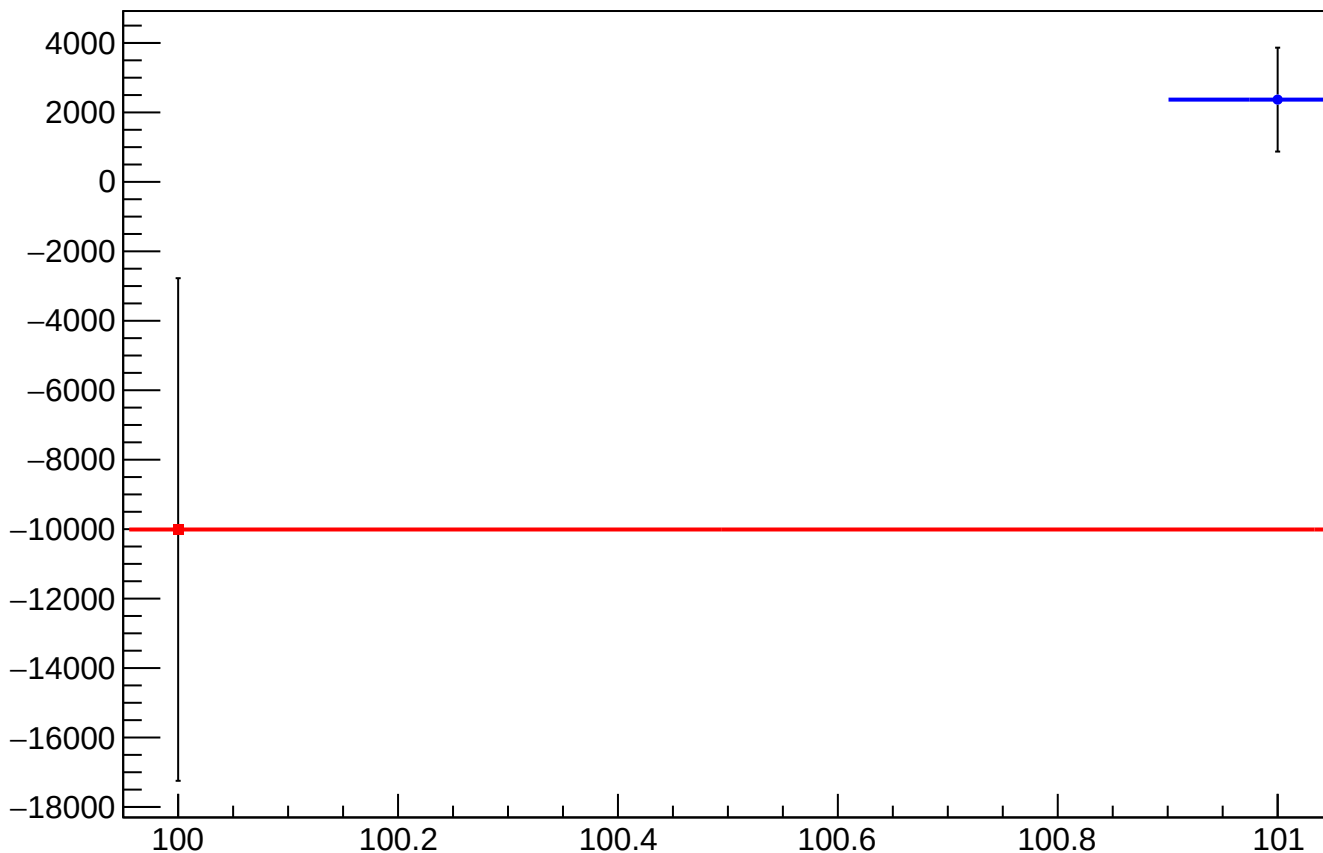
Right: 2619.915 $\pm$ 2.174  $\chi^2/\text{NDF}$ : 1435.0/1

In: 2595.362 $\pm$ 2.269  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2619.915 $\pm$ 2.174  $\chi^2/\text{NDF}$ : 1435.0/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2368.677+/-1495.883  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10009.891+/-7236.478  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

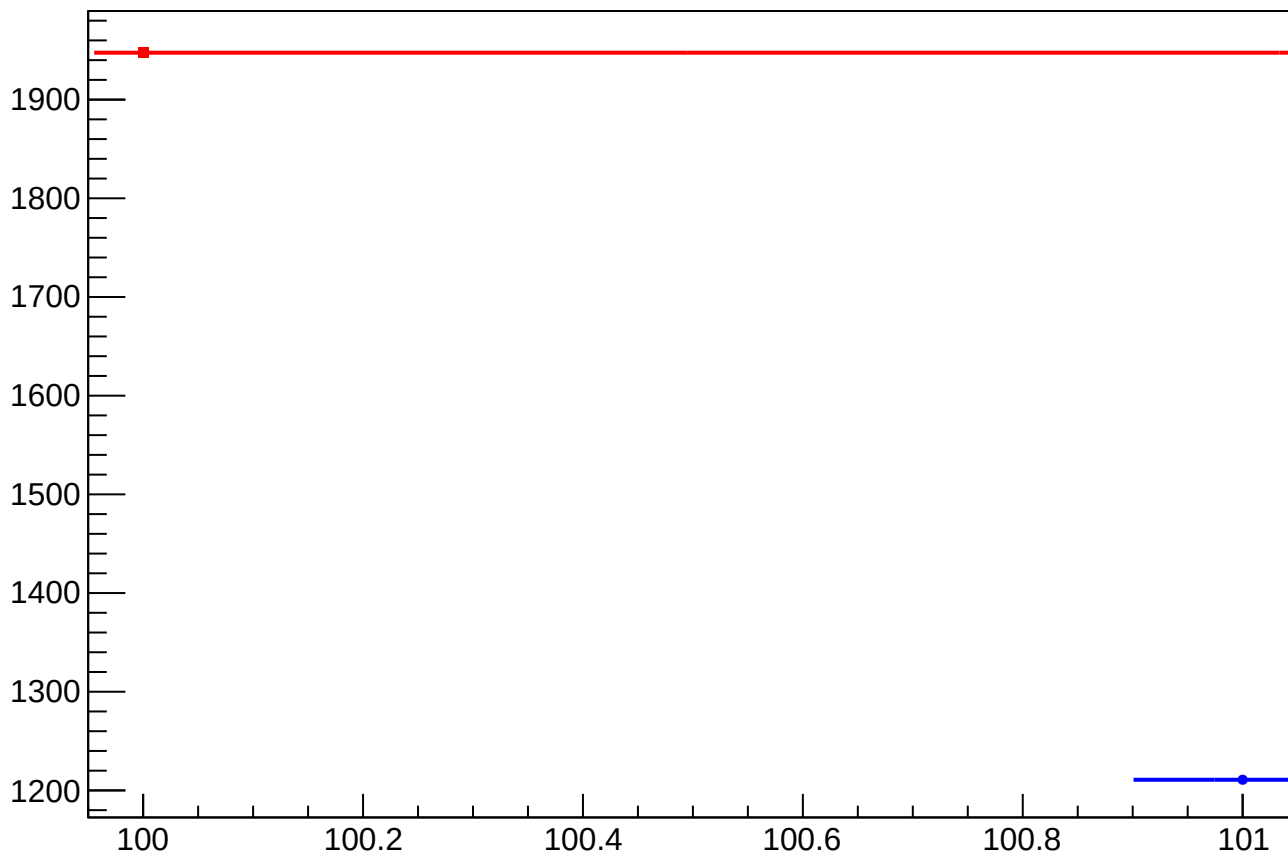
Right: 1861.407+/-1464.912  $\chi^2/\text{NDF}$ : 2.8/1

In: 2368.677+/-1495.883  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1861.407+/-1464.912  $\chi^2/\text{NDF}$ : 2.8/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1210.805 $\pm$ 1.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1947.520 $\pm$ 5.117  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

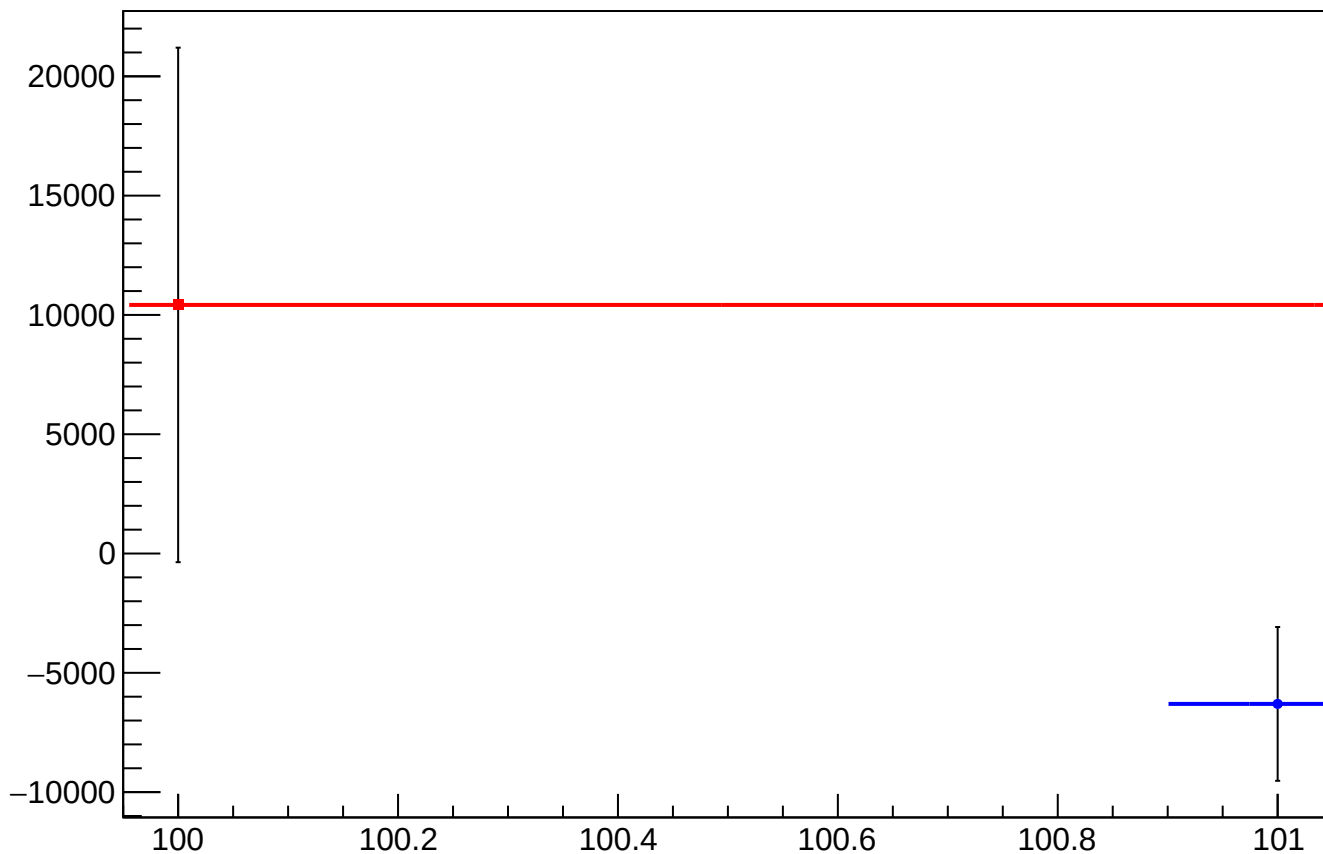
Right: 1240.996 $\pm$ 1.036  $\chi^2/\text{NDF}$ : 19879.3/1

In: 1210.805 $\pm$ 1.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1240.996 $\pm$ 1.036  $\chi^2/\text{NDF}$ : 19879.3/1

dit\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -6302.753+/-3222.485  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10419.070+/-10781.961  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

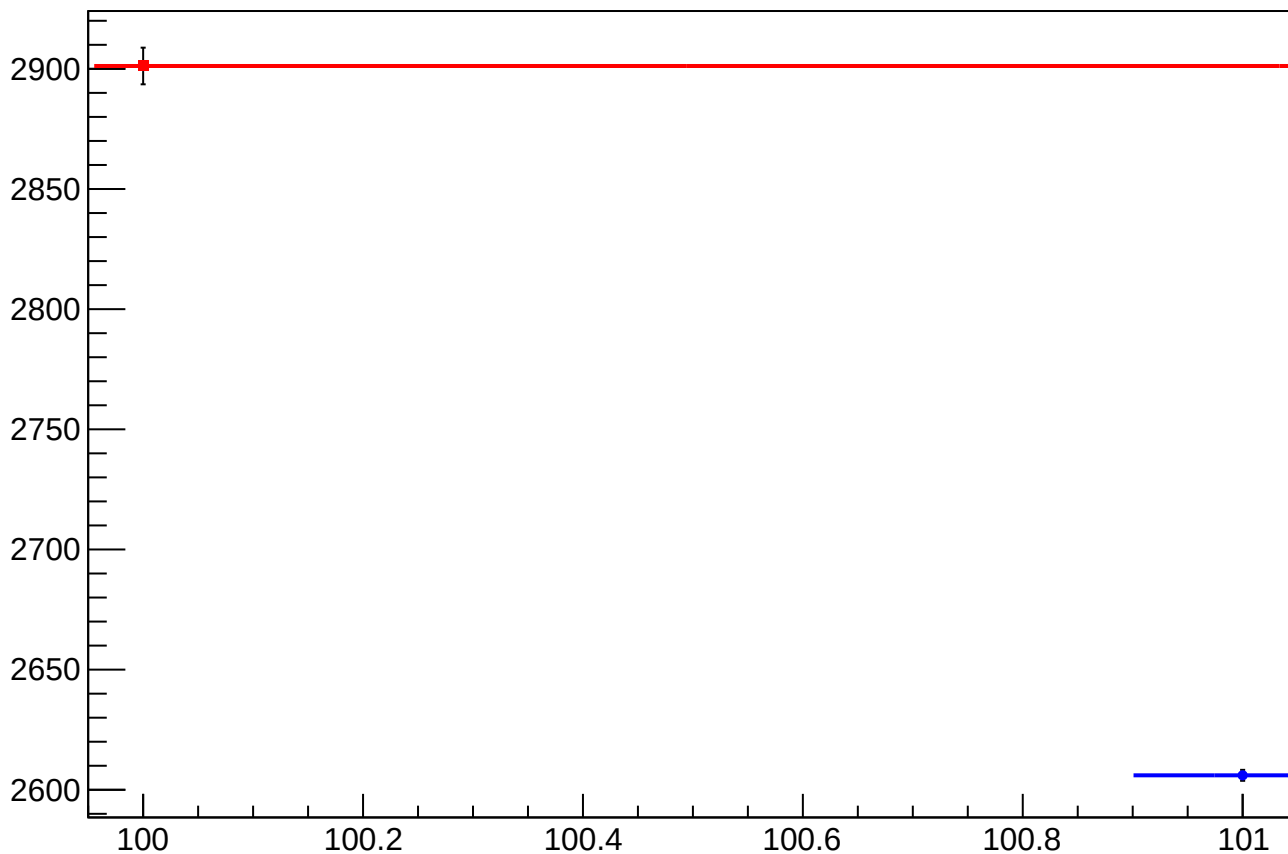
Right: -4931.519+/-3087.533  $\chi^2/\text{NDF}$ : 2.2/1

In: -6302.753+/-3222.485  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4931.519+/-3087.533  $\chi^2/\text{NDF}$ : 2.2/1

dit\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 2606.020 $\pm$ 2.279  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2901.189 $\pm$ 7.624  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

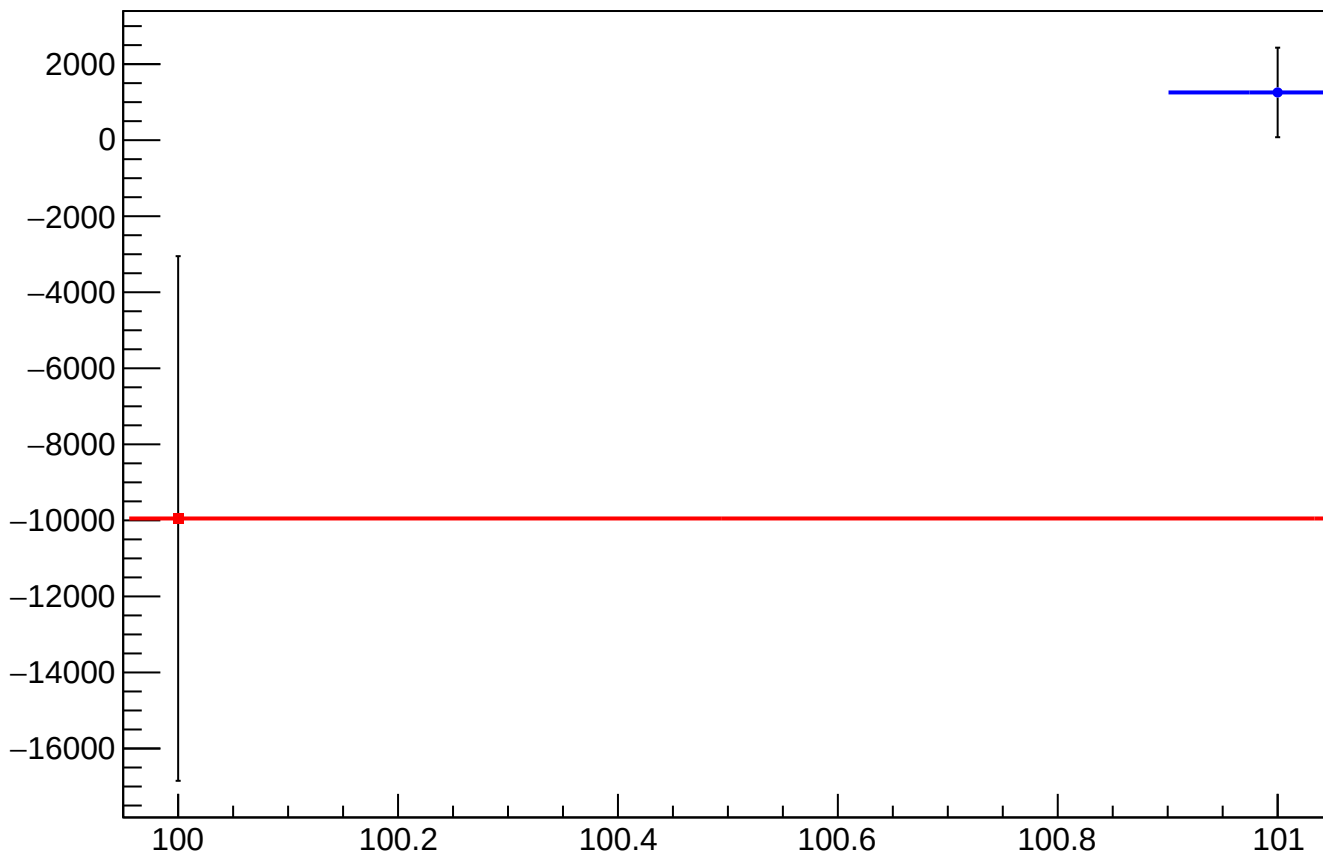
Right: 2630.225 $\pm$ 2.183  $\chi^2$ /NDF: 1376.0/1

In: 2606.020 $\pm$ 2.279  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2630.225 $\pm$ 2.183  $\chi^2$ /NDF: 1376.0/1

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1255.417+/-1177.556  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9950.126+/-6899.372  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

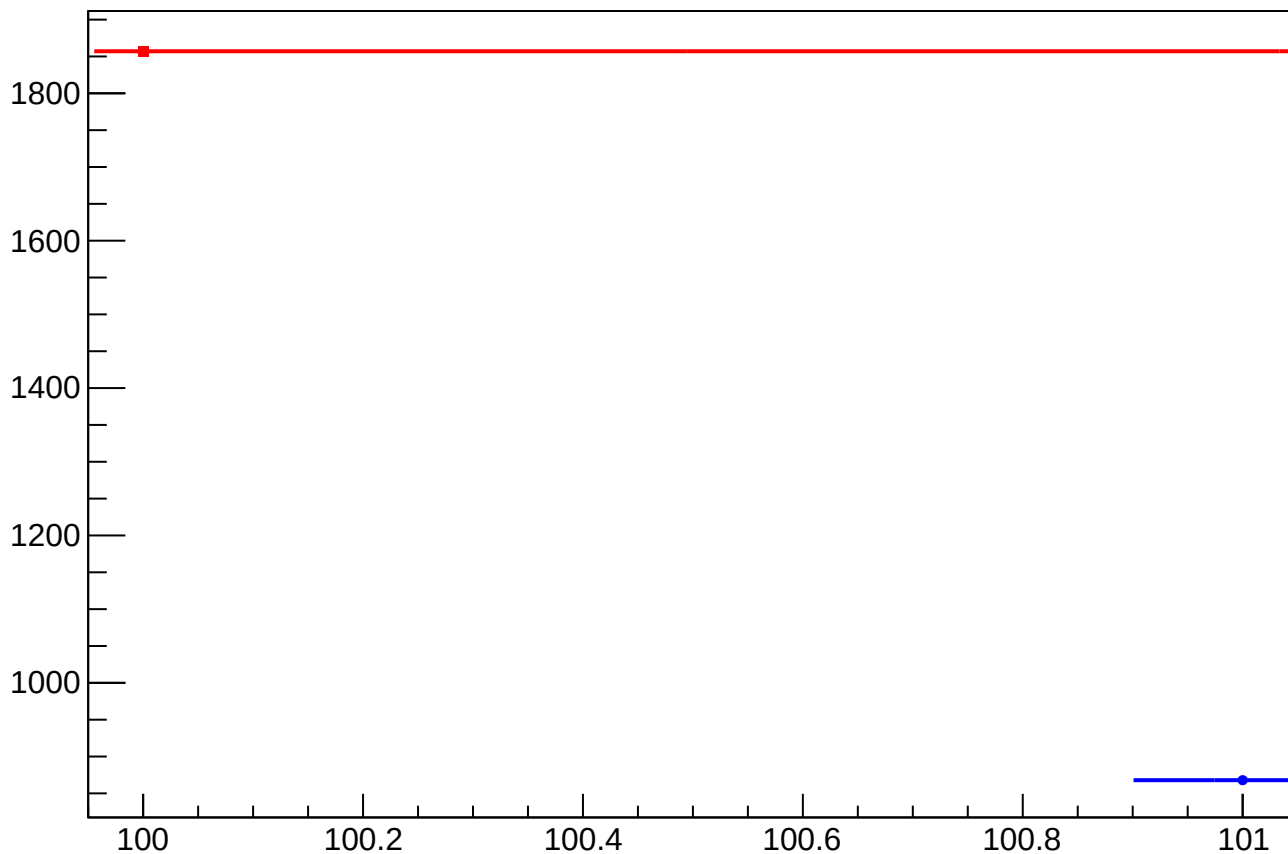
Right: 938.237+/-1160.771  $\chi^2/\text{NDF}$ : 2.6/1

In: 1255.417+/-1177.556  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 938.237+/-1160.771  $\chi^2/\text{NDF}$ : 2.6/1

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 867.902 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1857.055 $\pm$ 4.879  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 895.900 $\pm$ 0.821  $\chi^2$ /NDF: 39945.4/1

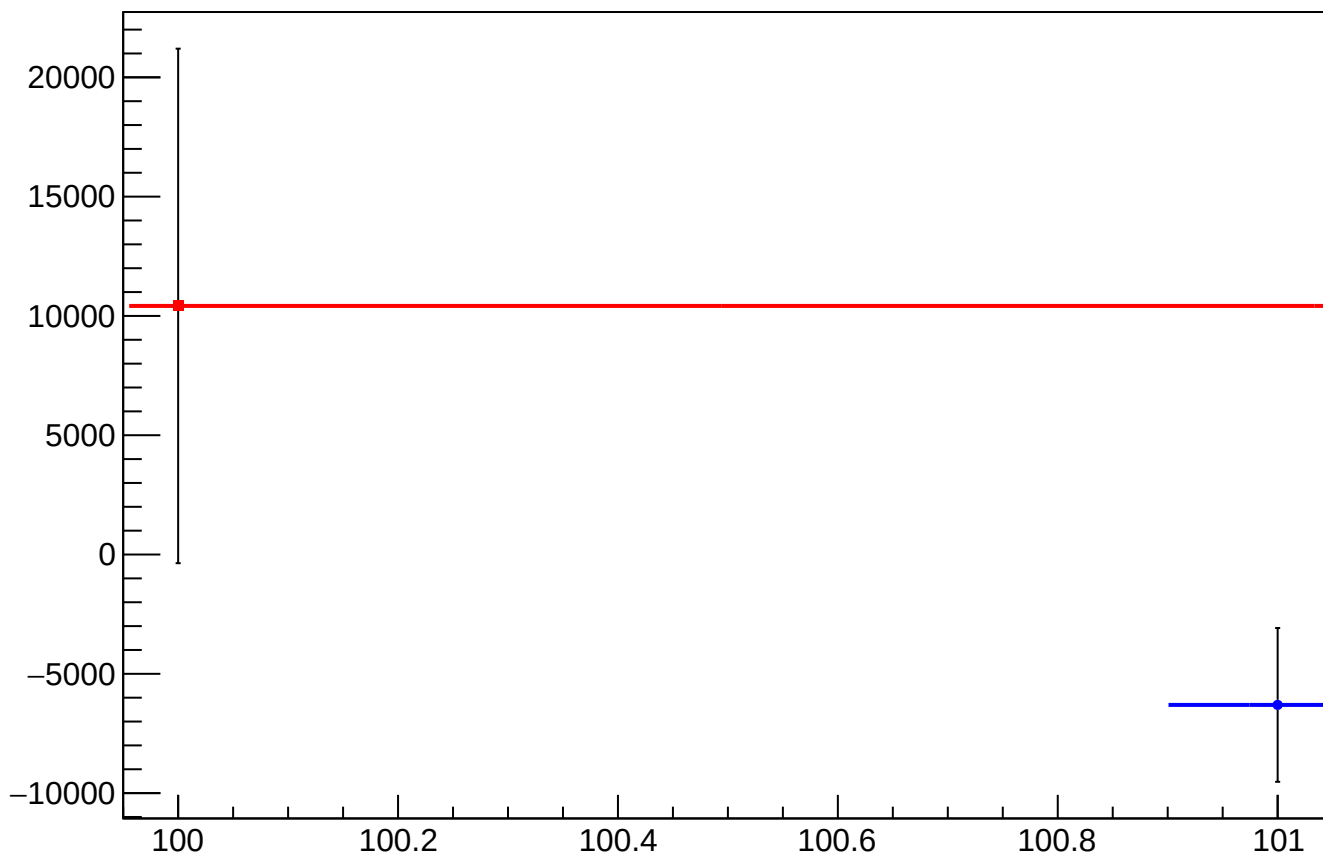
In: 867.902 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 895.900 $\pm$ 0.821  $\chi^2$ /NDF: 39945.4/1



eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -6302.789+/-3222.486  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10419.242+/-10781.962  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

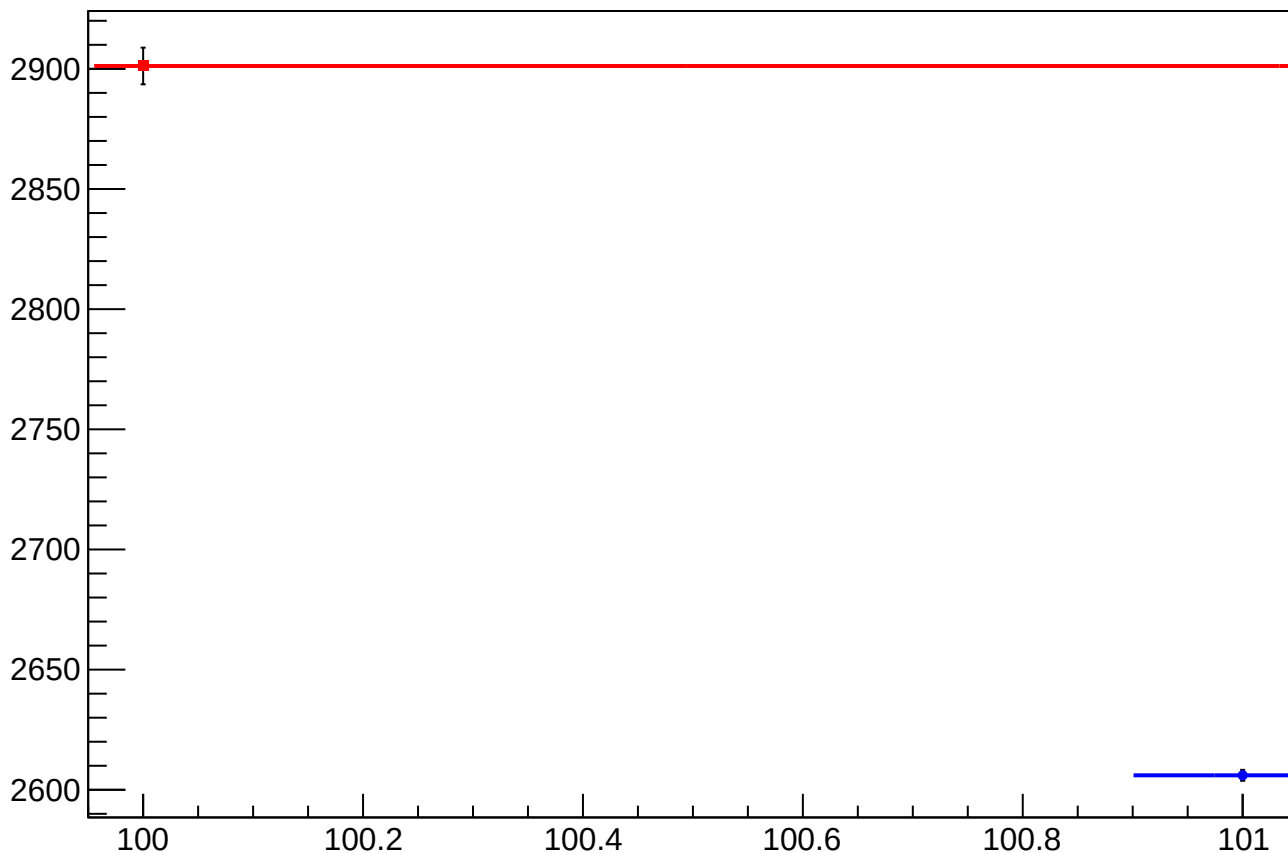
Right: -4931.539+/-3087.534  $\chi^2/\text{NDF}$ : 2.2/1

In: -6302.789+/-3222.486  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4931.539+/-3087.534  $\chi^2/\text{NDF}$ : 2.2/1

eigen\_dit\_asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 2606.020+/-2.279  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2901.190+/-7.624  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

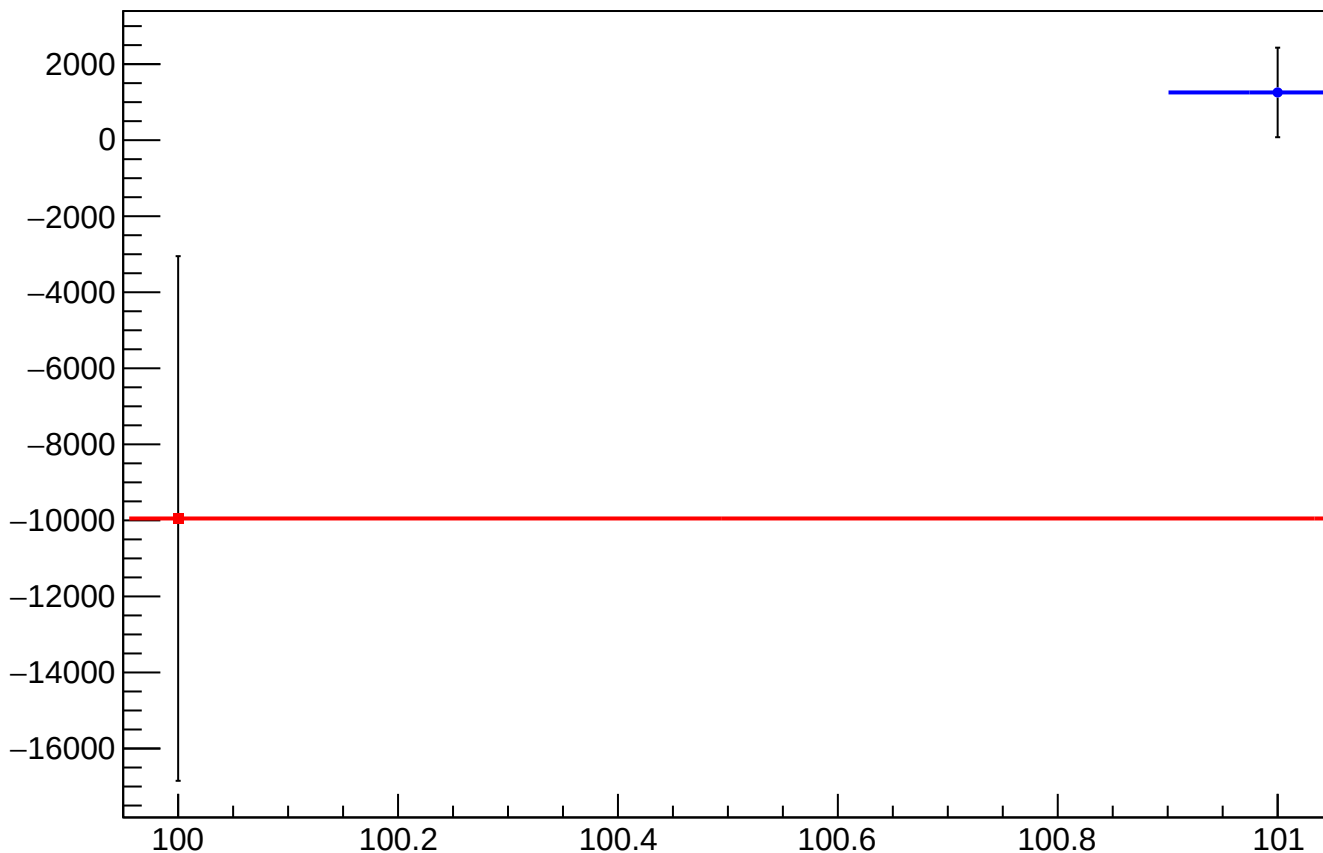
Right: 2630.225+/-2.183  $\chi^2/\text{NDF}$ : 1376.0/1

In: 2606.020+/-2.279  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2630.225+/-2.183  $\chi^2/\text{NDF}$ : 1376.0/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1255.403+/-1177.547  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -9949.956+/-6899.296  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

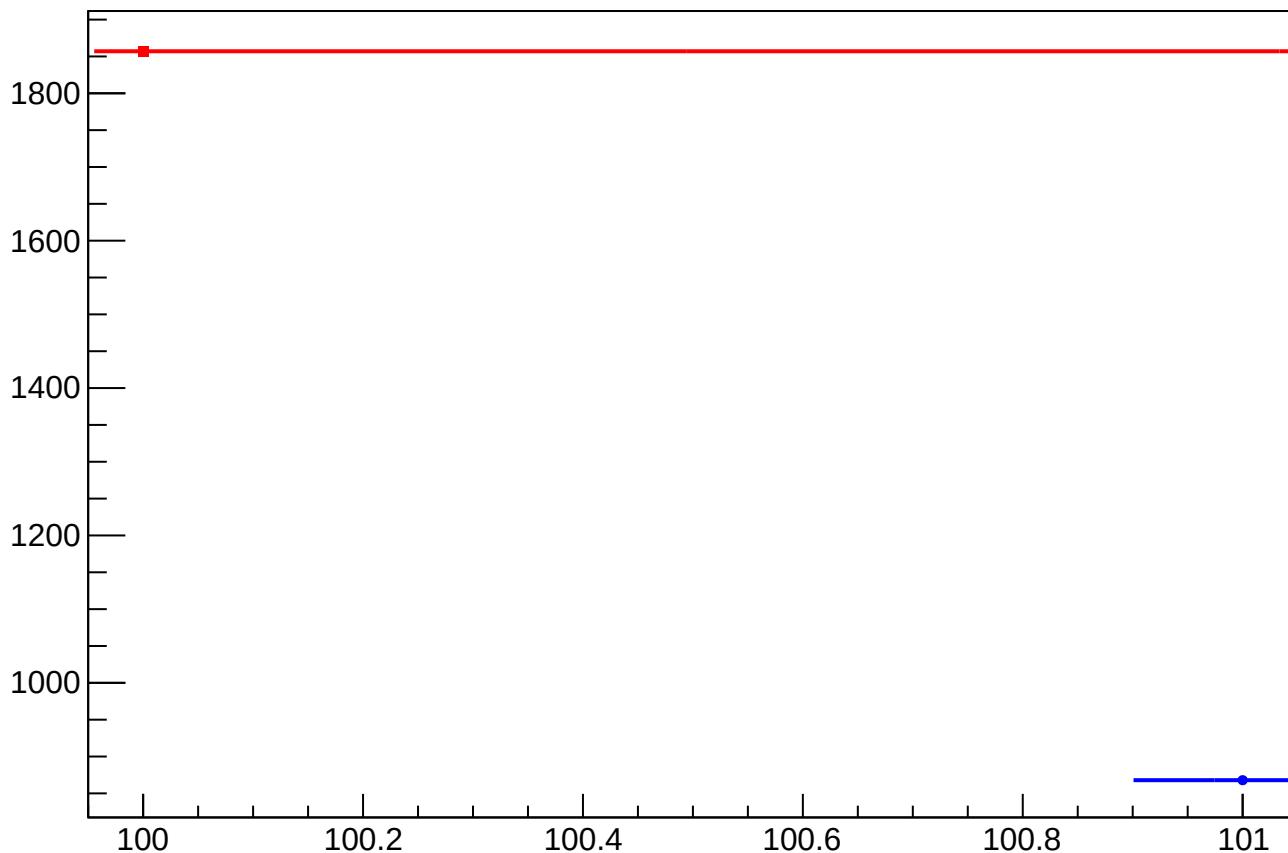
Right: 938.225+/-1160.762  $\chi^2$ /NDF: 2.6/1

In: 1255.403+/-1177.547  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 938.225+/-1160.762  $\chi^2$ /NDF: 2.6/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 867.896 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1857.034 $\pm$ 4.879  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

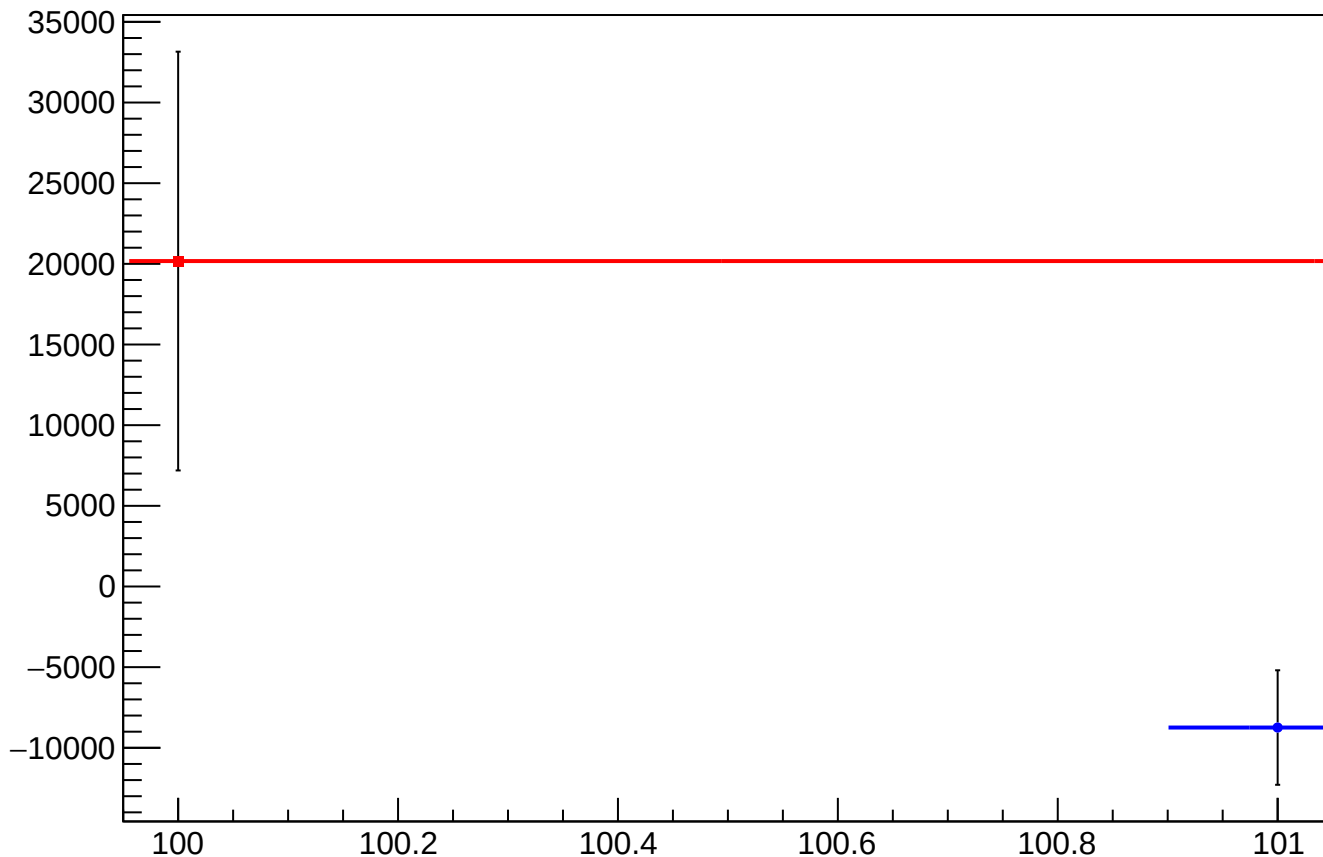
Right: 895.895 $\pm$ 0.821  $\chi^2$ /NDF: 39945.1/1

In: 867.896 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 895.895 $\pm$ 0.821  $\chi^2$ /NDF: 39945.1/1

asym\_us\_dd\_at2lr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: -8743.167+/-3549.358  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20172.894+/-12979.782  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

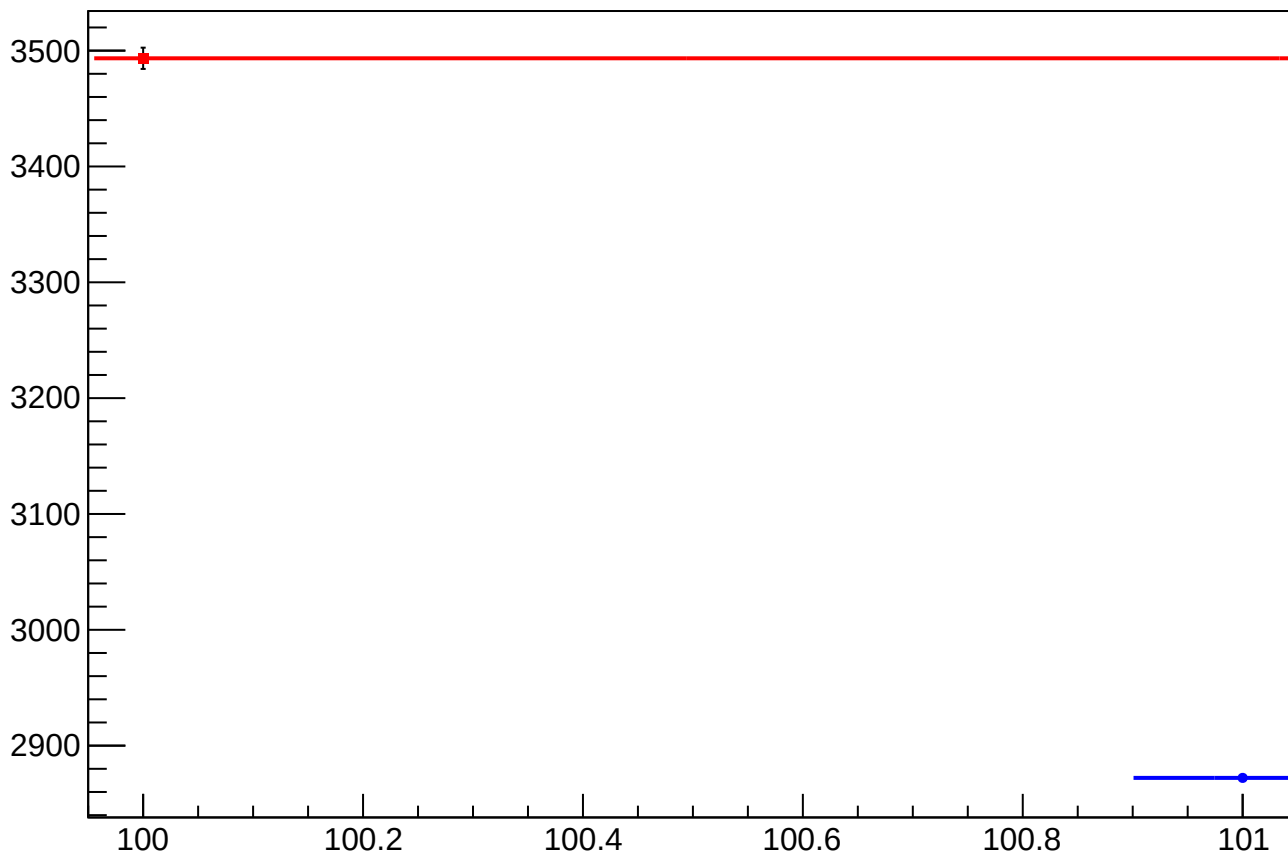
Right: -6731.363+/-3423.661  $\chi^2/\text{NDF}$ : 4.6/1

In: -8743.167+/-3549.358  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6731.363+/-3423.661  $\chi^2/\text{NDF}$ : 4.6/1

# asym\_us\_dd\_at2lr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 2872.162+/-2.510  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3493.381+/-9.178  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

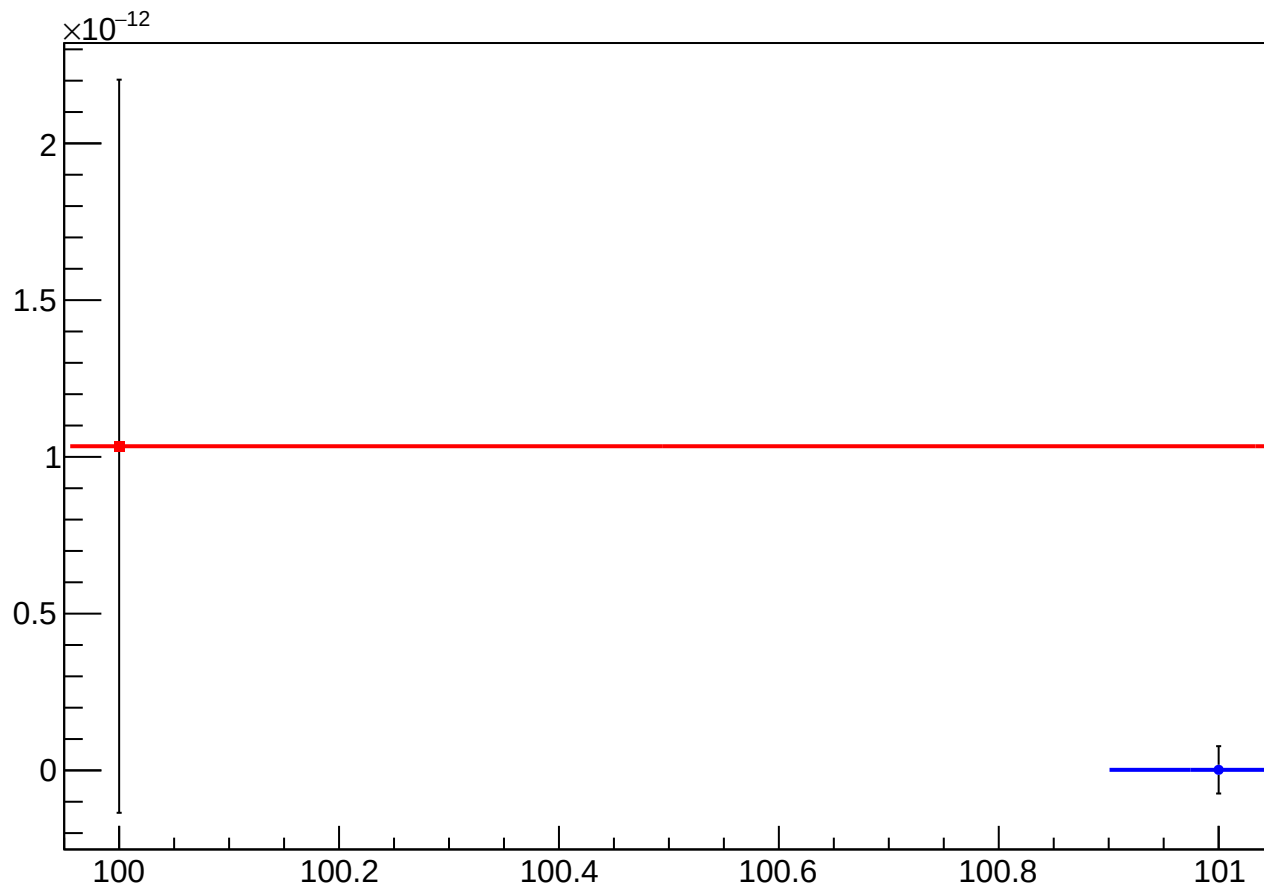
Right: 2915.382+/-2.421  $\chi^2/\text{NDF}$ : 4262.5/1

In: 2872.162+/-2.510  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2915.382+/-2.421  $\chi^2/\text{NDF}$ : 4262.5/1

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

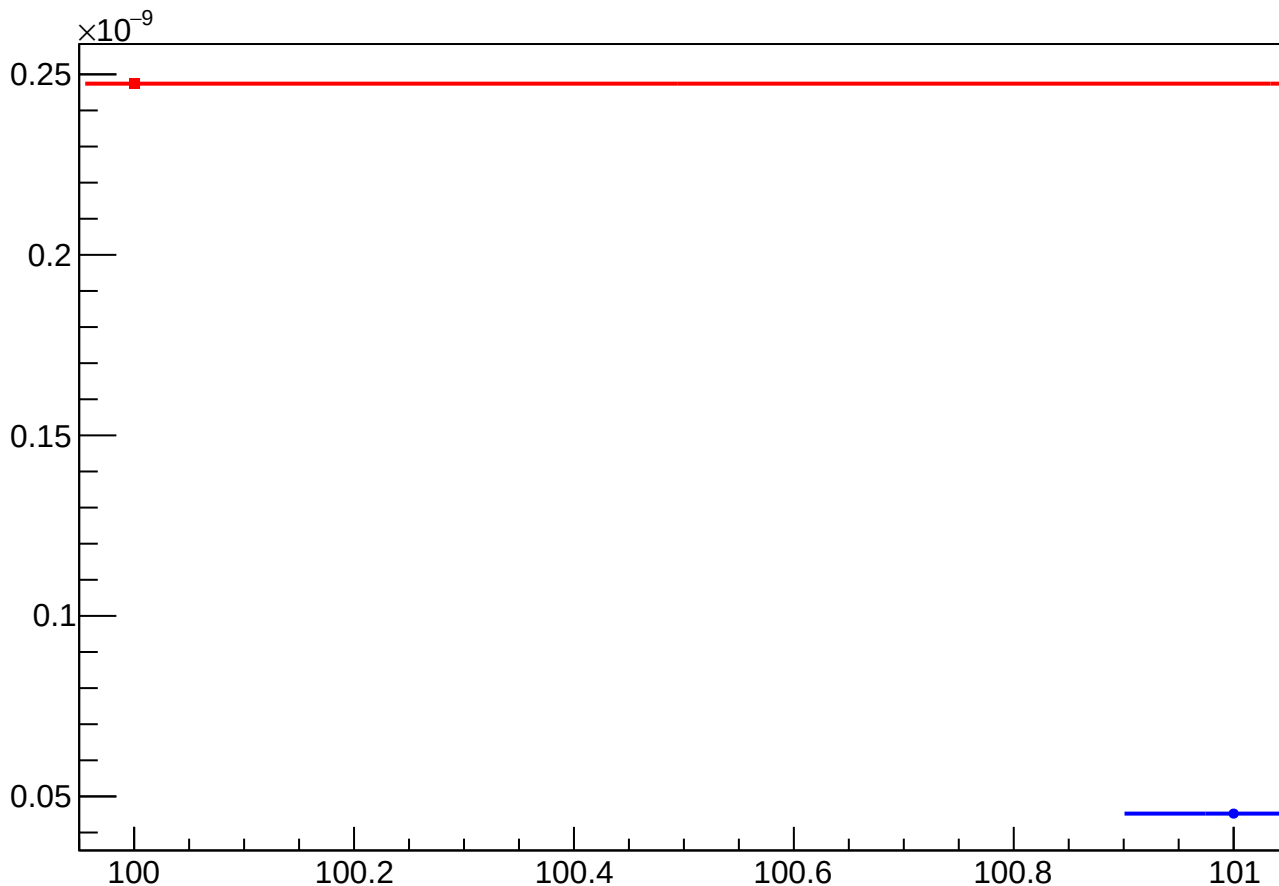
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

asym\_us\_dd\_at2lr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59551.1/1

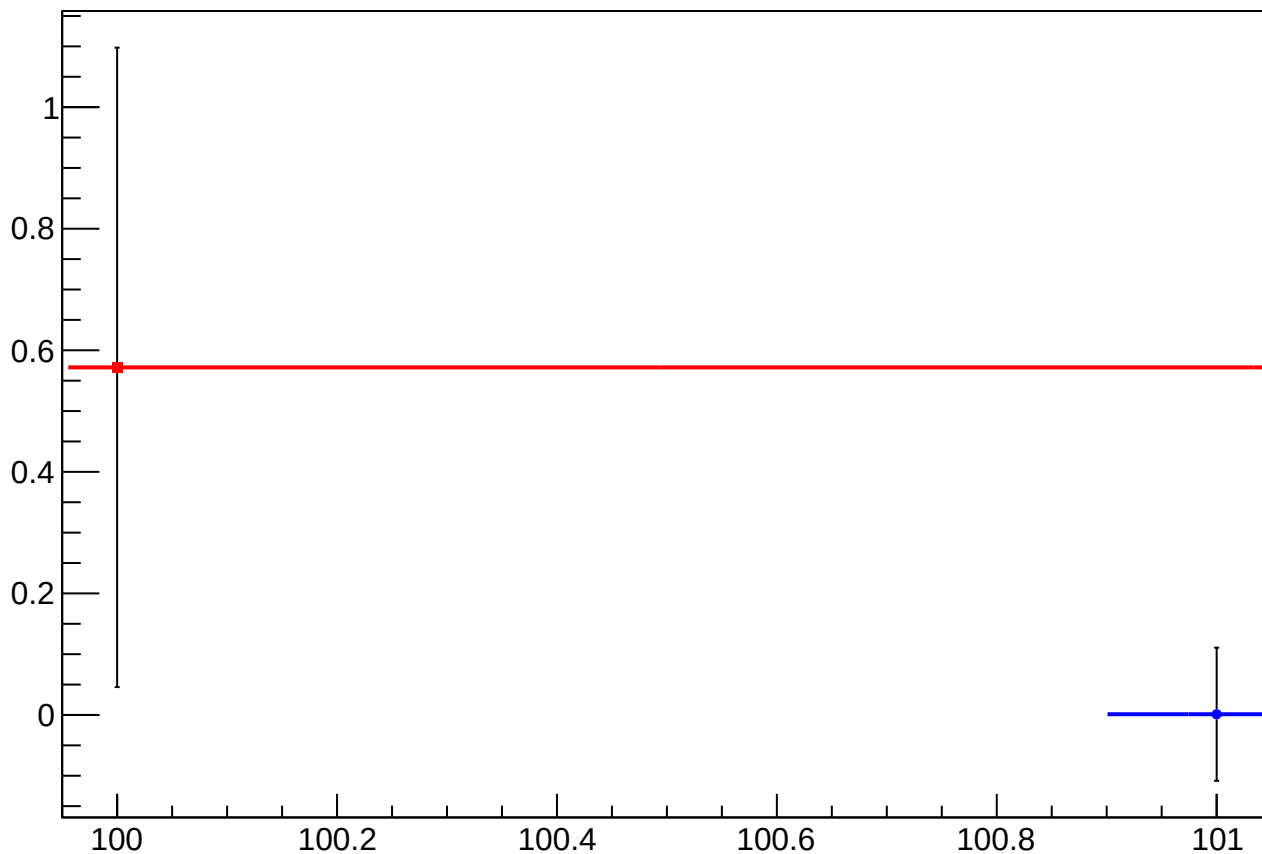
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59551.1/1



asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.572 $\pm$ 0.526  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

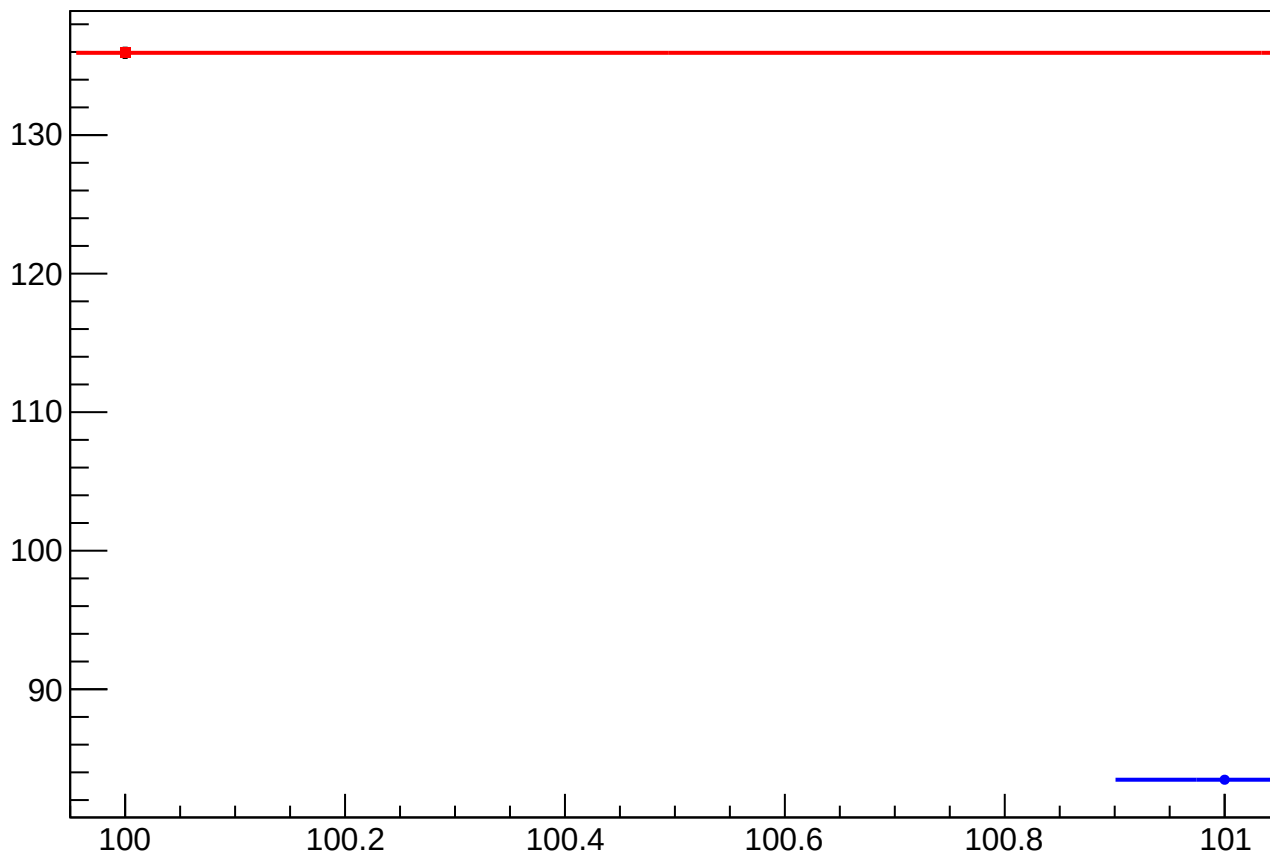
Right: 0.025 $\pm$ 0.107  $\chi^2$ /NDF: 1.1/1

In: 0.001 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.025 $\pm$ 0.107  $\chi^2$ /NDF: 1.1/1

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 83.468 $\pm$ 0.077  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.939 $\pm$ 0.372  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

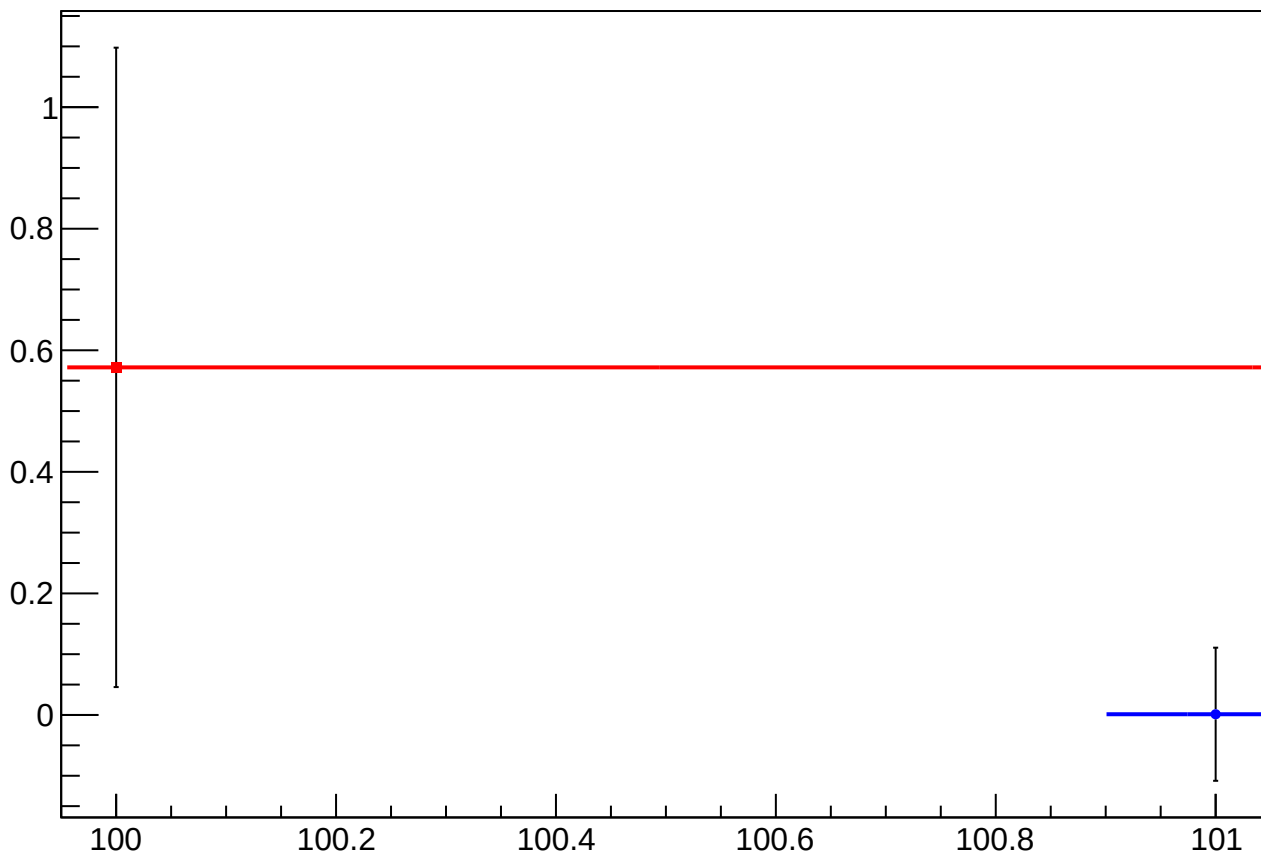
Right: 85.648 $\pm$ 0.076  $\chi^2$ /NDF: 19076.0/1

In: 83.468 $\pm$ 0.077  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.648 $\pm$ 0.076  $\chi^2$ /NDF: 19076.0/1

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.572 $\pm$ 0.526  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

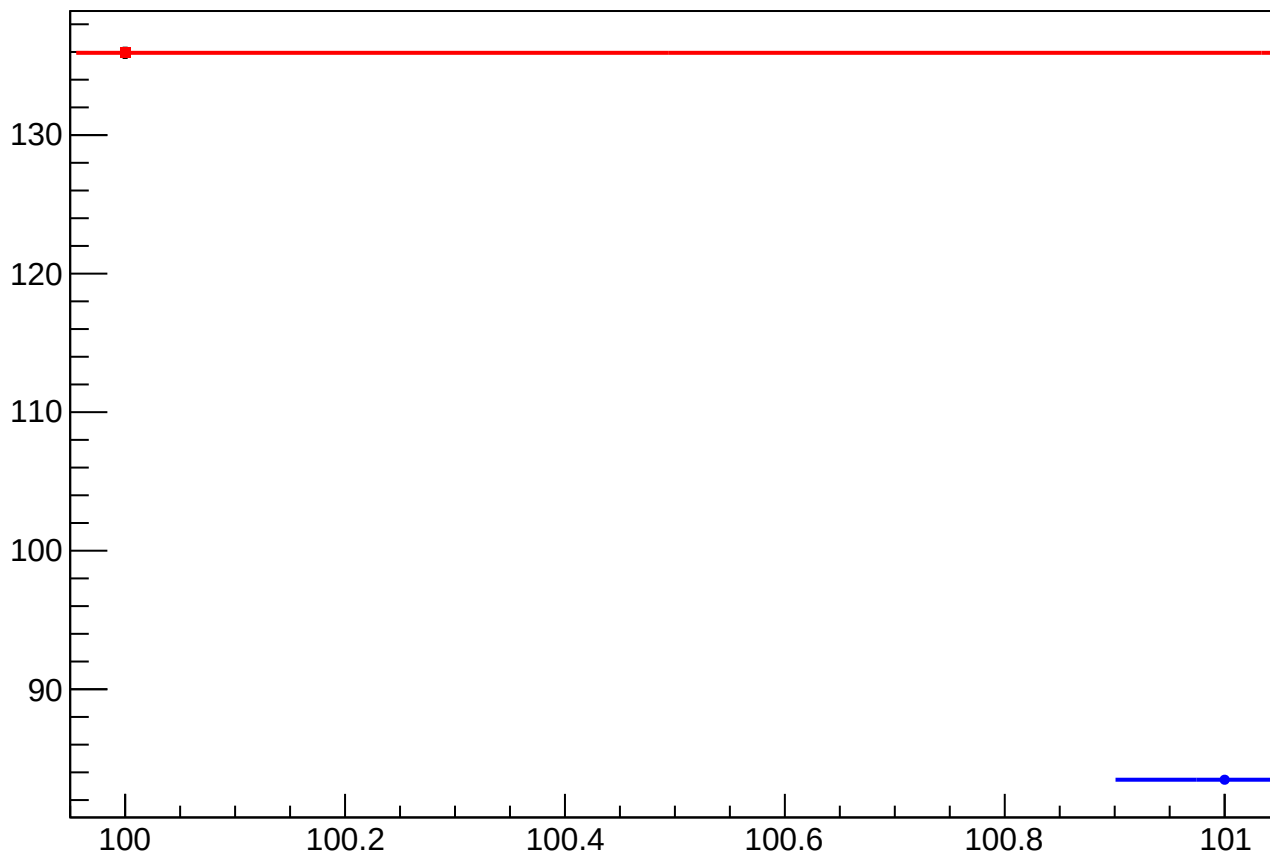
Right: 0.025 $\pm$ 0.107  $\chi^2$ /NDF: 1.1/1

In: 0.001 $\pm$ 0.110  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.025 $\pm$ 0.107  $\chi^2$ /NDF: 1.1/1

asym\_us\_dd\_at2lr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 83.468 $\pm$ 0.077  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.939 $\pm$ 0.372  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

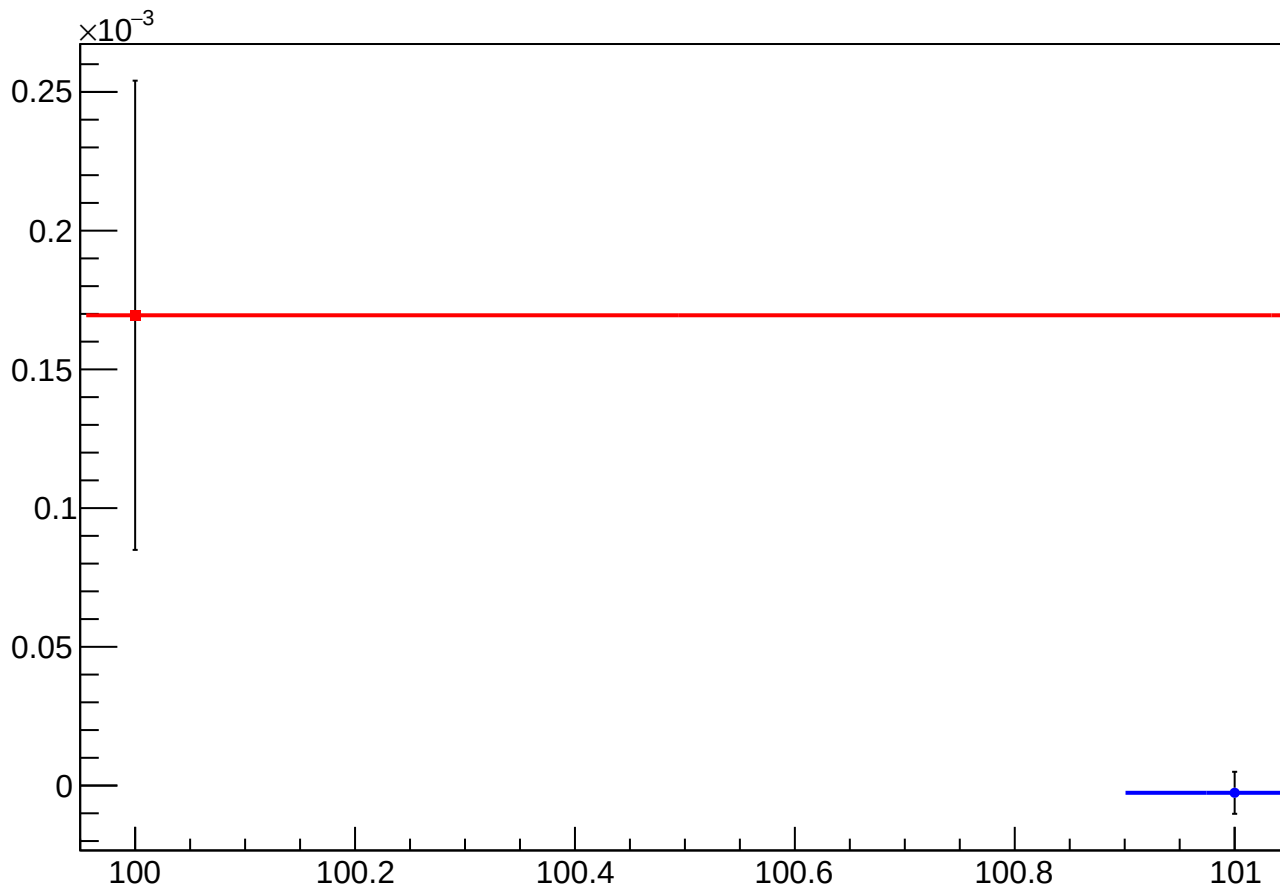
Right: 85.648 $\pm$ 0.076  $\chi^2$ /NDF: 19076.0/1

In: 83.468 $\pm$ 0.077  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.648 $\pm$ 0.076  $\chi^2$ /NDF: 19076.0/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



Right In: -0.000+/-0.000  $\chi^2$ /NDF: 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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

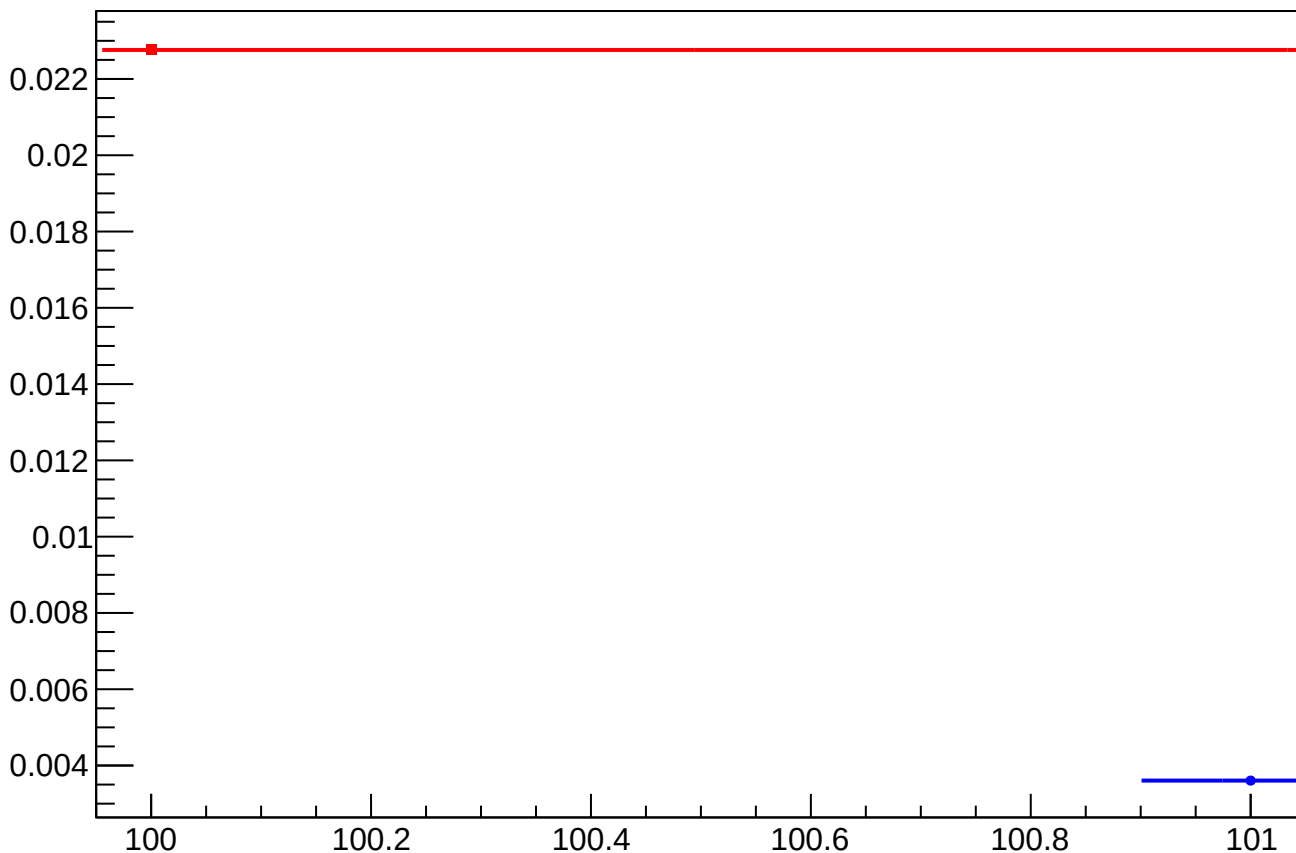
Right: -0.000+/-0.000  $\chi^2$ /NDF: 4.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 4.1/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

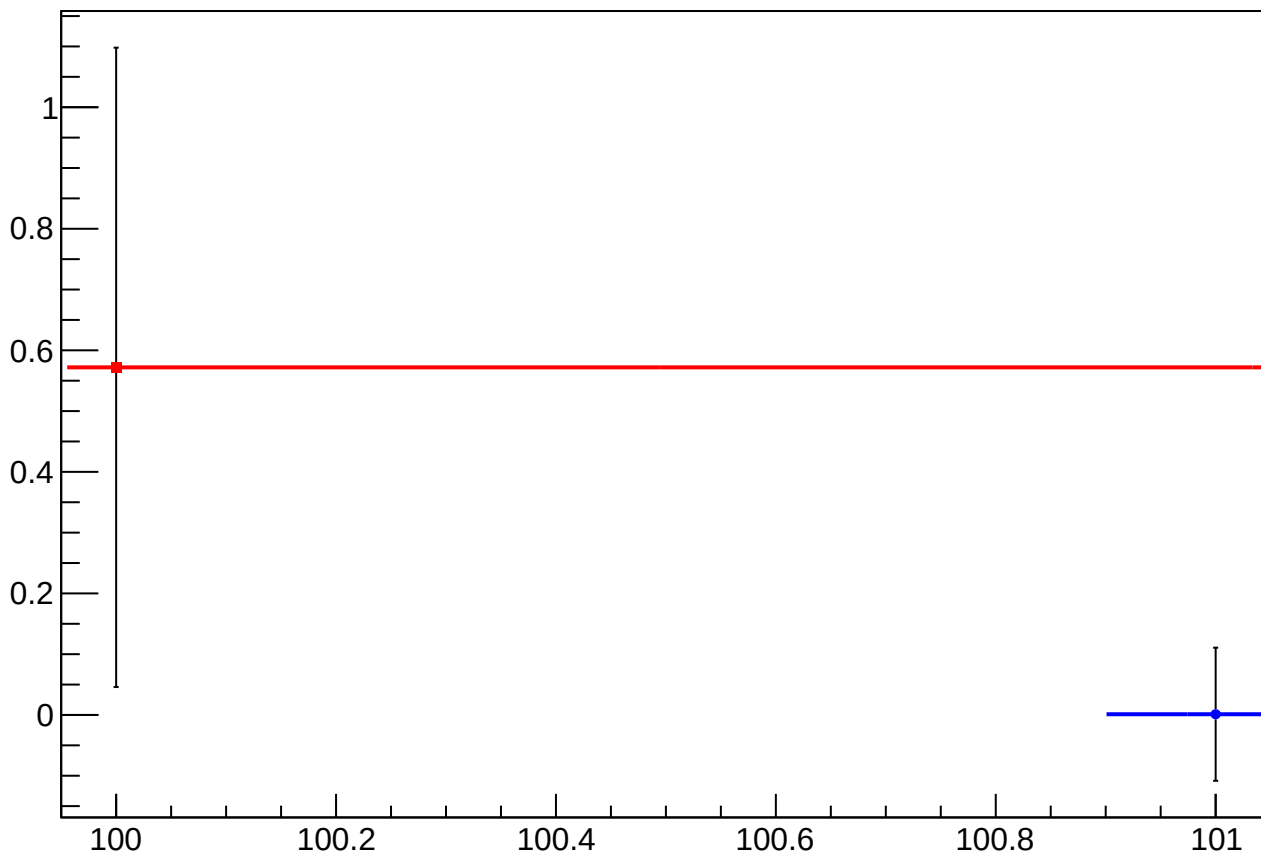
Right: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 101823.6/1

In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 101823.6/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.572 $\pm$ 0.526  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

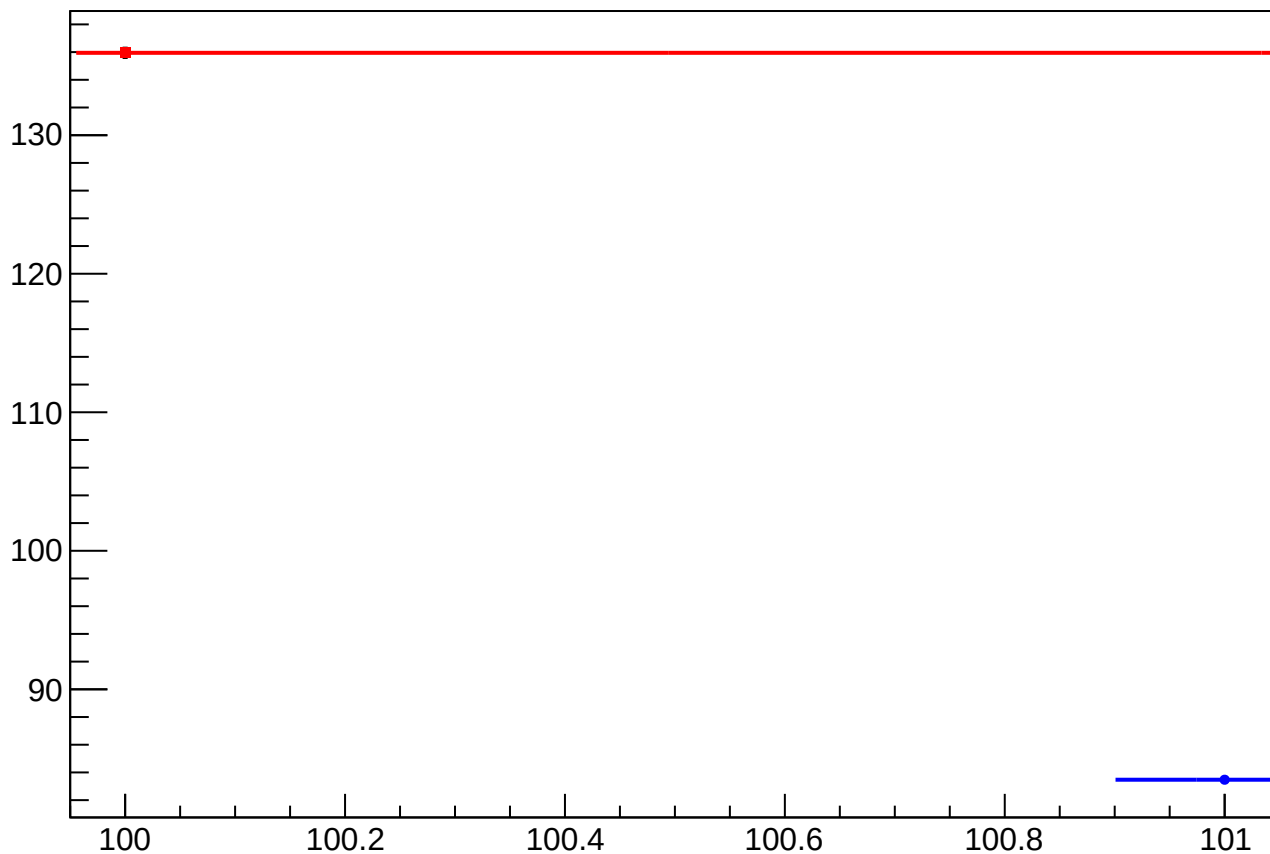
Right: 0.025 $\pm$ 0.107  $\chi^2$ /NDF: 1.1/1

In: 0.001 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.025 $\pm$ 0.107  $\chi^2$ /NDF: 1.1/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 83.473+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 135.948+/-0.372  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 85.653+/-0.076  $\chi^2/\text{NDF}$ : 19076.2/1

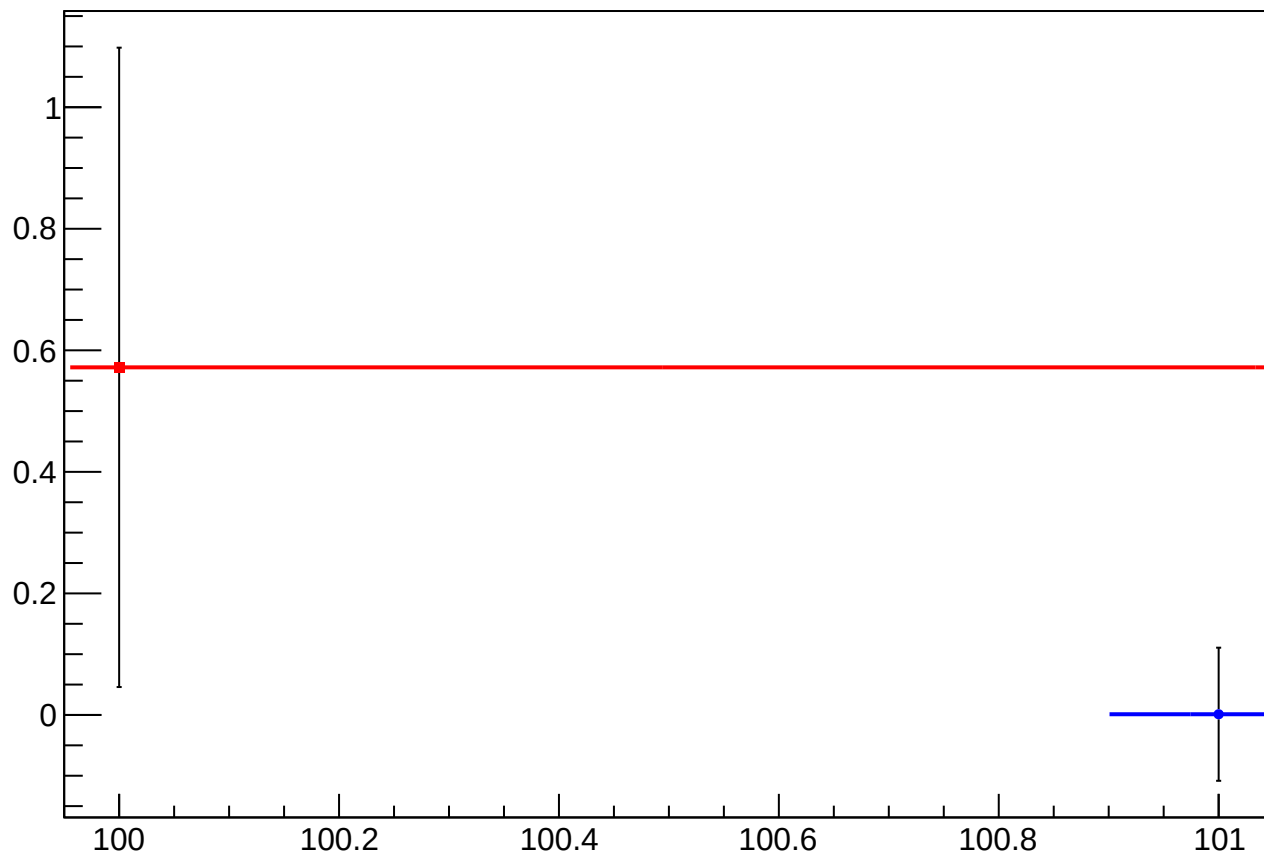
In: 83.473+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.653+/-0.076  $\chi^2/\text{NDF}$ : 19076.2/1



asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.001+/-0.110  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.572+/-0.526  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

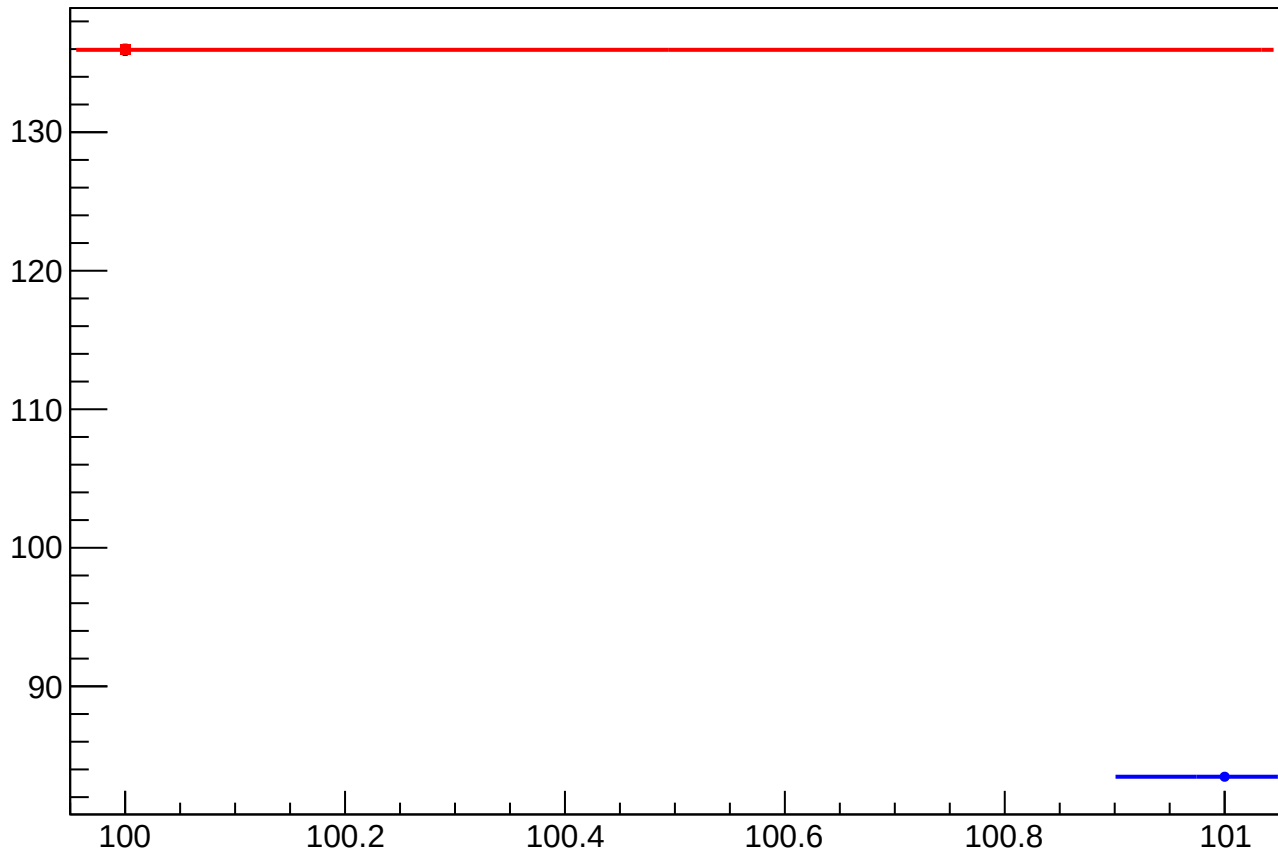
Right: 0.025+/-0.107  $\chi^2/\text{NDF}$ : 1.1/1

In: 0.001+/-0.110  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.025+/-0.107  $\chi^2/\text{NDF}$ : 1.1/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 83.473+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 135.948+/-0.372  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

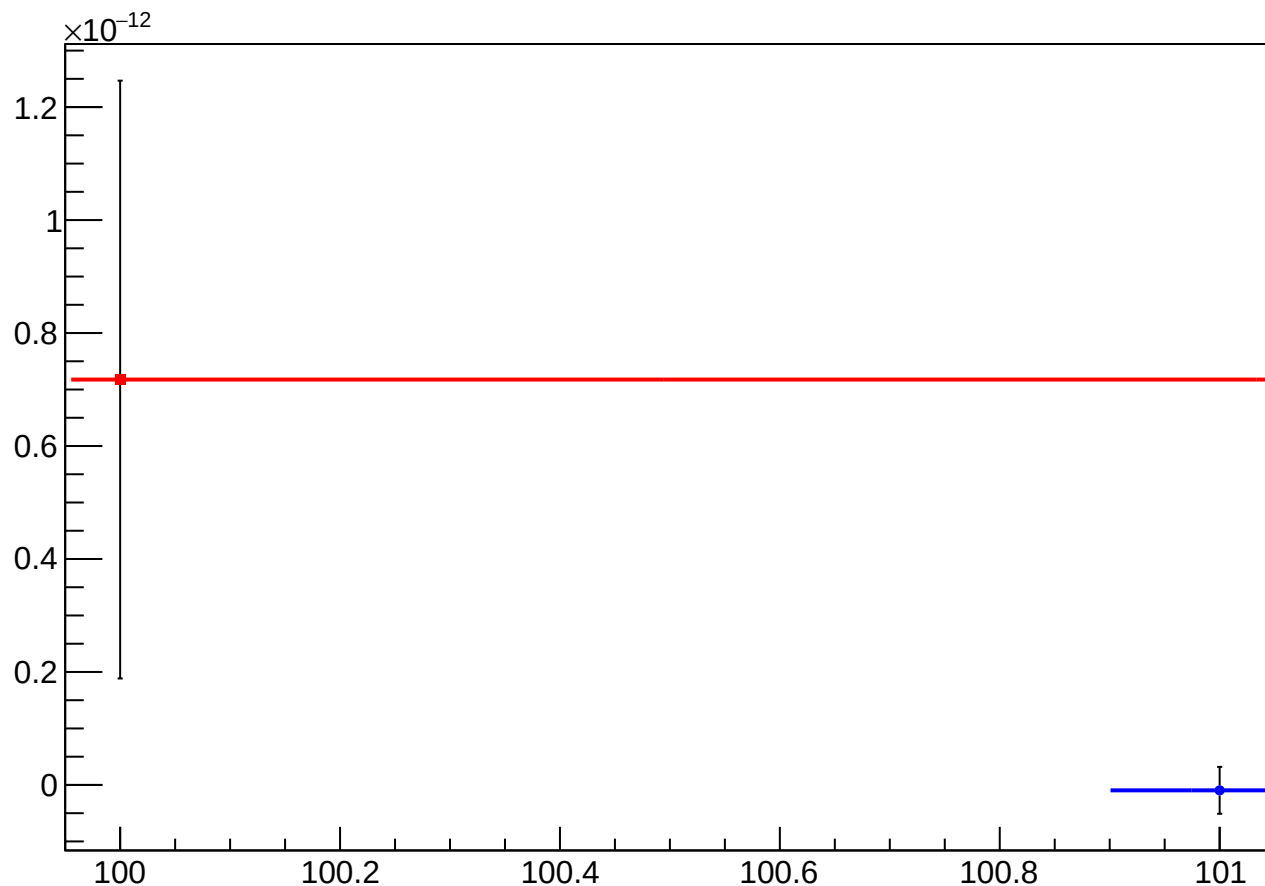
Right: 85.653+/-0.076  $\chi^2/\text{NDF}$ : 19076.2/1

In: 83.473+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.653+/-0.076  $\chi^2/\text{NDF}$ : 19076.2/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

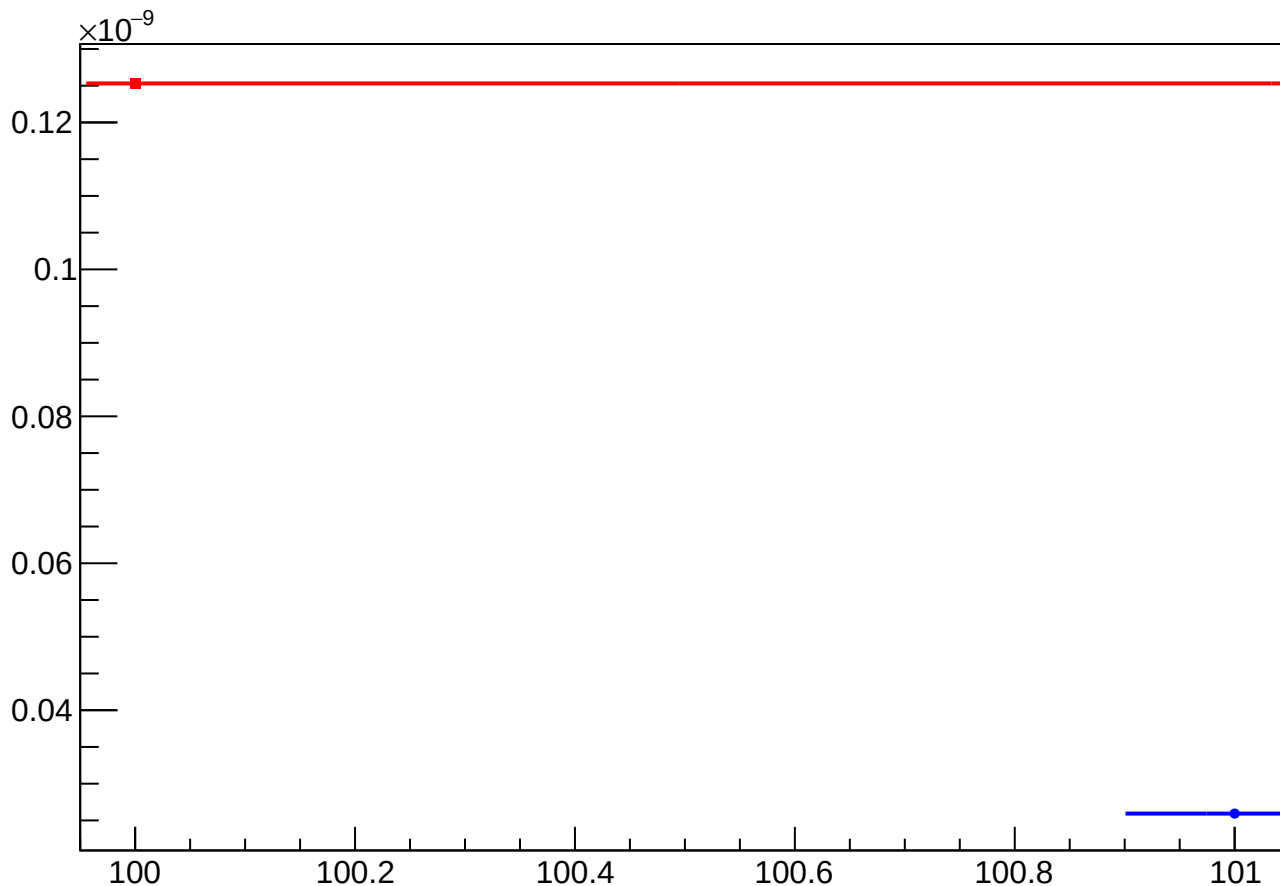
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/1

asym\_us\_dd\_at2lr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

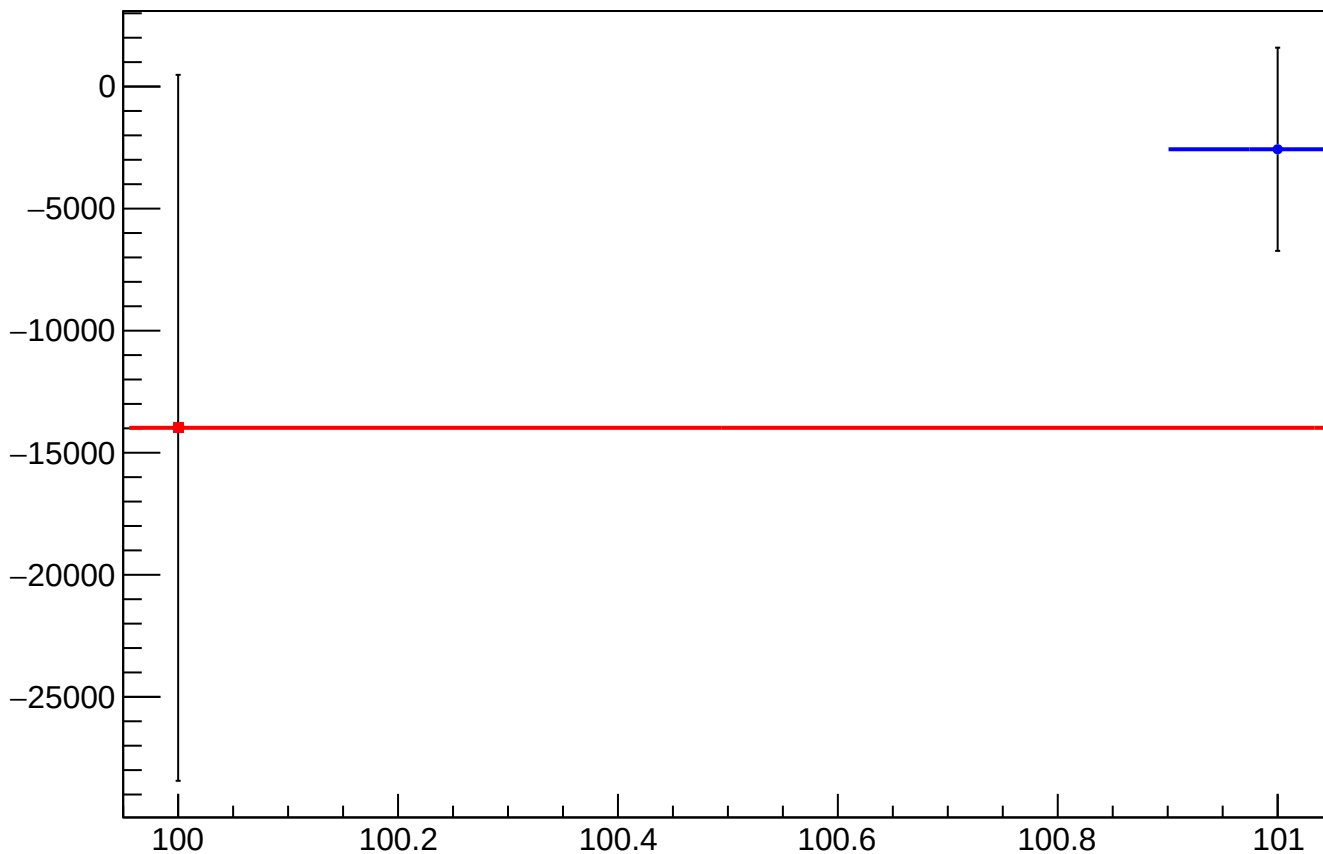
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 70118.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 70118.8/1

reg\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2569.480+/-4161.893  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13979.040+/-14458.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

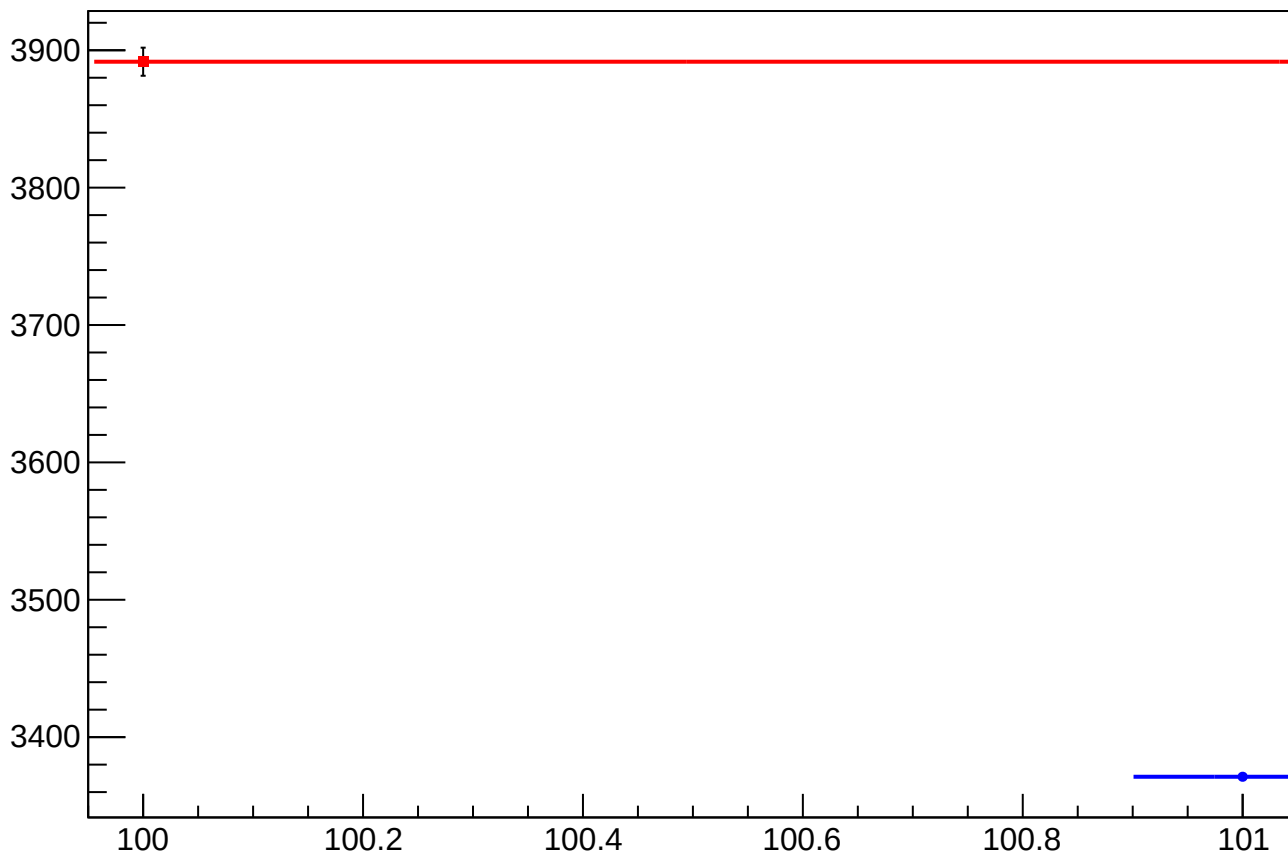
Right: -3442.475+/-3999.502  $\chi^2/\text{NDF}$ : 0.6/1

In: -2569.480+/-4161.893  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3442.475+/-3999.502  $\chi^2/\text{NDF}$ : 0.6/1

reg\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3371.167 $\pm$ 2.943  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3891.659 $\pm$ 10.224  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

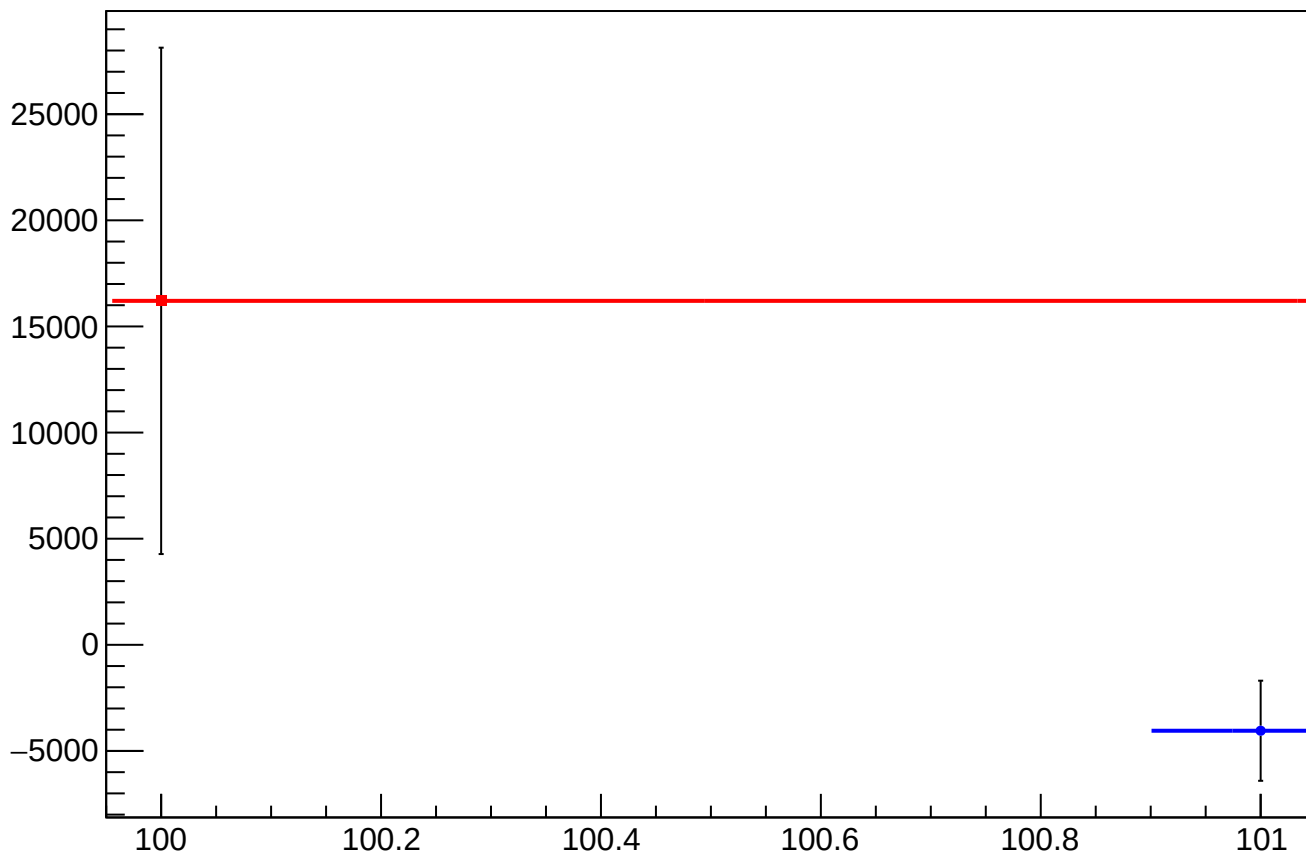
Right: 3410.992 $\pm$ 2.828  $\chi^2/\text{NDF}$ : 2393.4/1

In: 3371.167 $\pm$ 2.943  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3410.992 $\pm$ 2.828  $\chi^2/\text{NDF}$ : 2393.4/1

asym\_us\_dd\_atlr\_dd\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -4048.356+/-2358.148  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16205.237+/-11928.856  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

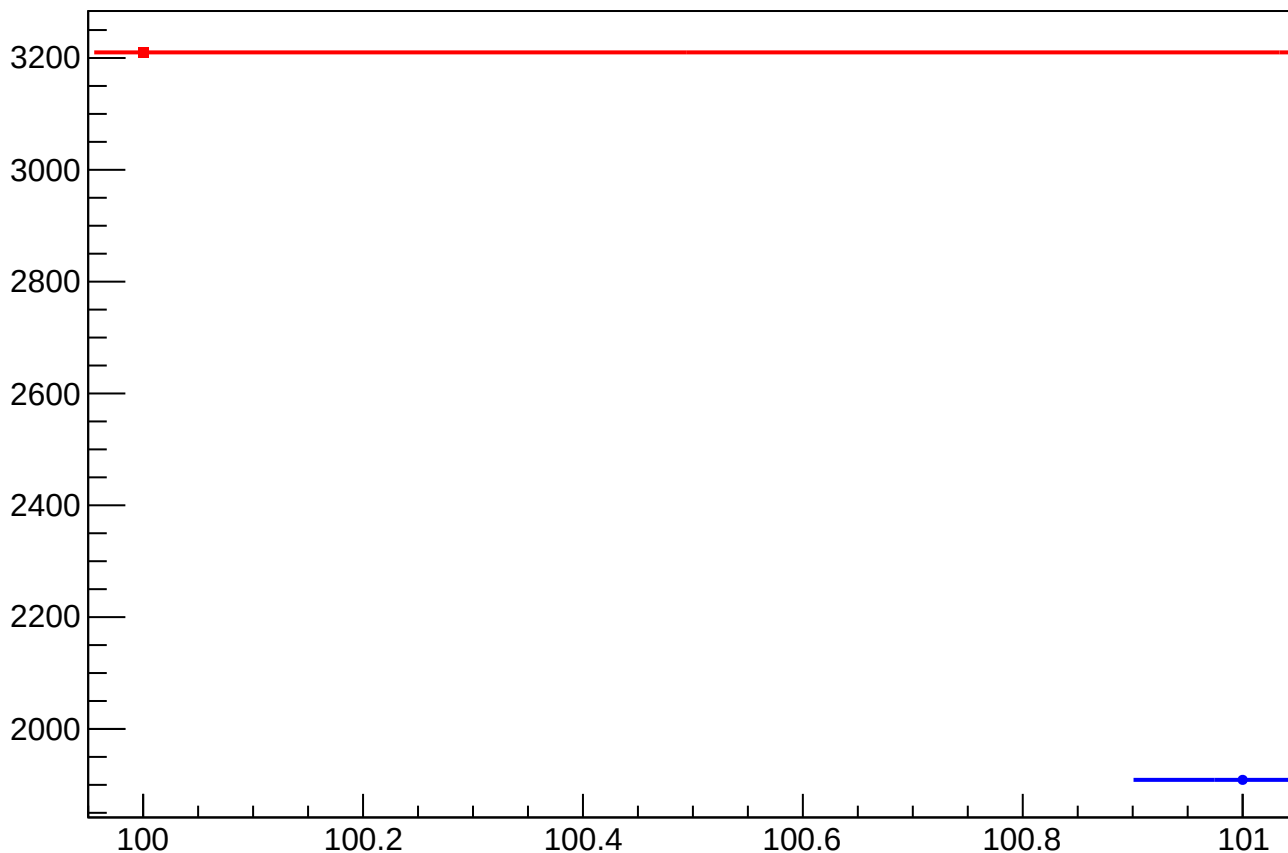
Right: -3286.631+/-2313.379  $\chi^2/\text{NDF}$ : 2.8/1

In: -4048.356+/-2358.148  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3286.631+/-2313.379  $\chi^2/\text{NDF}$ : 2.8/1

asym\_us\_dd\_atlr\_dd\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1908.936 $\pm$ 1.667  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3210.035 $\pm$ 8.435  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1957.869 $\pm$ 1.636  $\chi^2/\text{NDF}$ : 22898.4/1

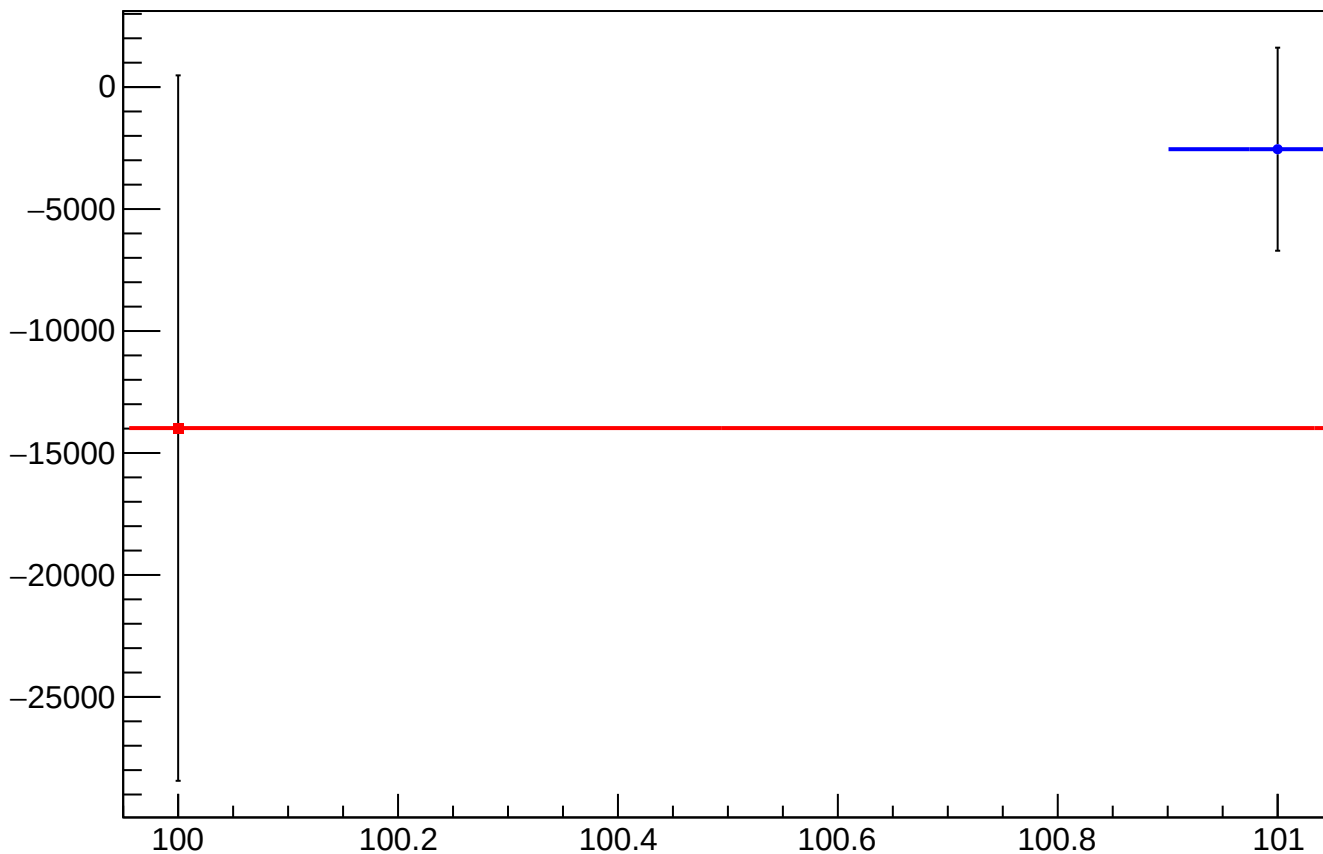
In: 1908.936 $\pm$ 1.667  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1957.869 $\pm$ 1.636  $\chi^2/\text{NDF}$ : 22898.4/1



cor\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2546.471+/-4161.913  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13978.865+/-14458.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

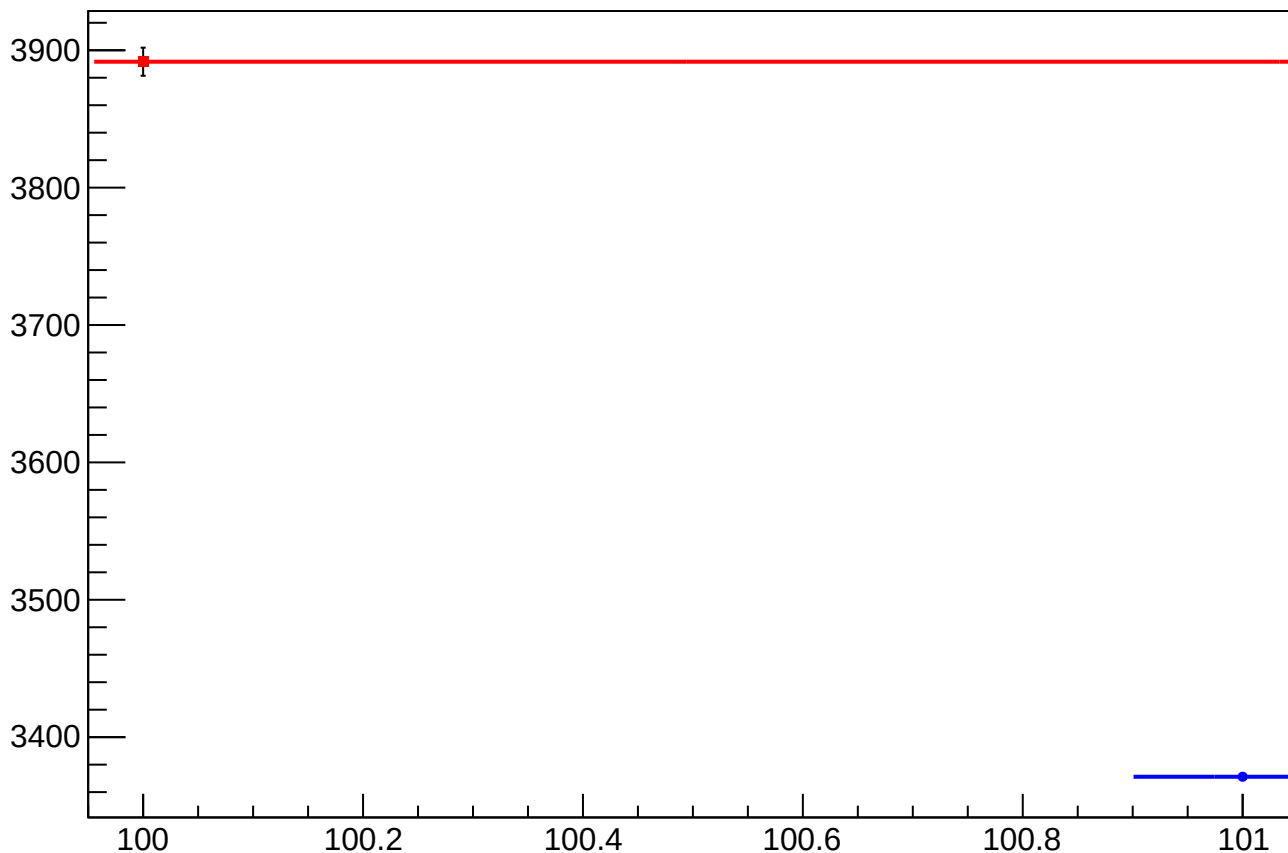
Right: -3421.221+/-3999.520  $\chi^2/\text{NDF}$ : 0.6/1

In: -2546.471+/-4161.913  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3421.221+/-3999.520  $\chi^2/\text{NDF}$ : 0.6/1

cor\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3371.179+/-2.943  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3891.659+/-10.224  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

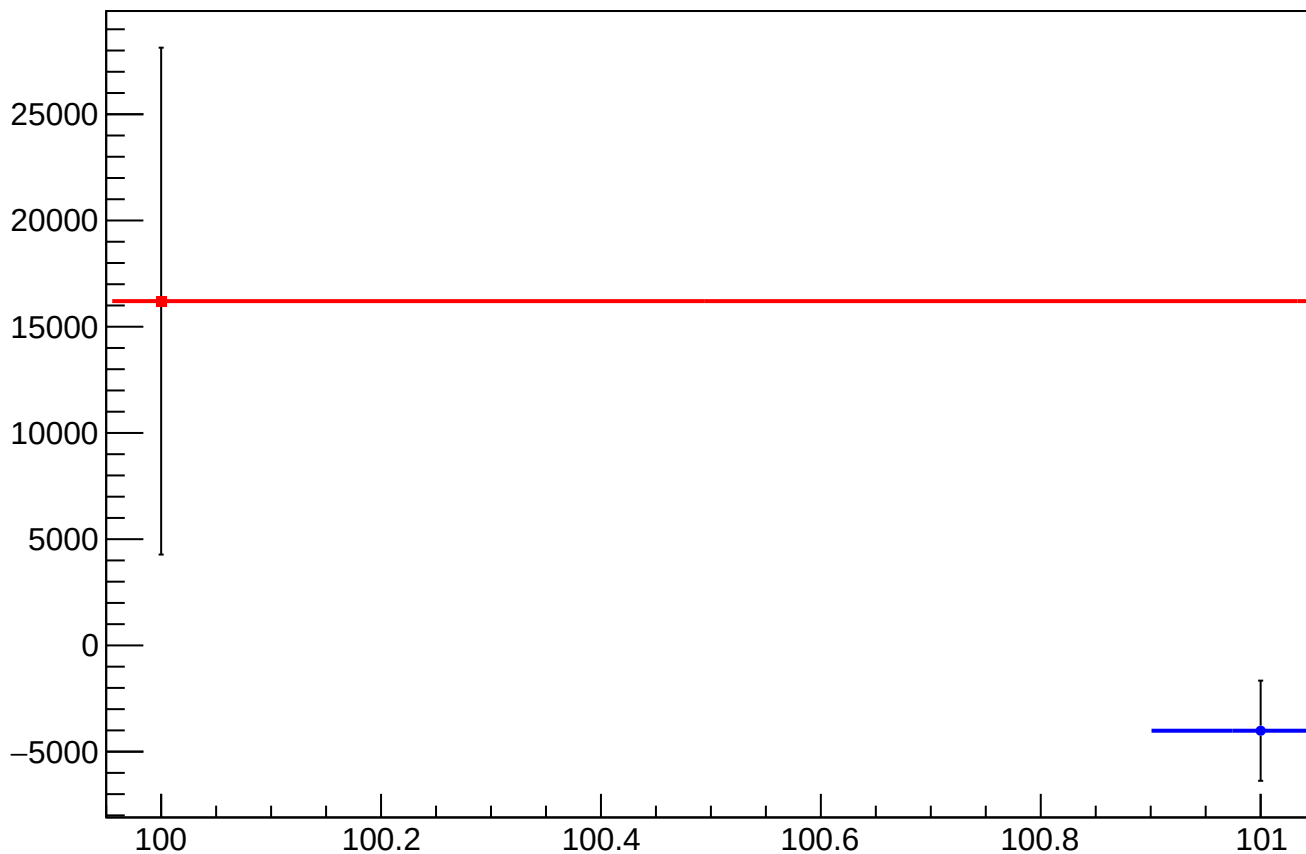
Right: 3411.004+/-2.828  $\chi^2/\text{NDF}$ : 2393.3/1

In: 3371.179+/-2.943  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3411.004+/-2.828  $\chi^2/\text{NDF}$ : 2393.3/1

asym\_us\_dd\_atlr\_dd\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -4015.057+/-2357.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16205.379+/-11928.895  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

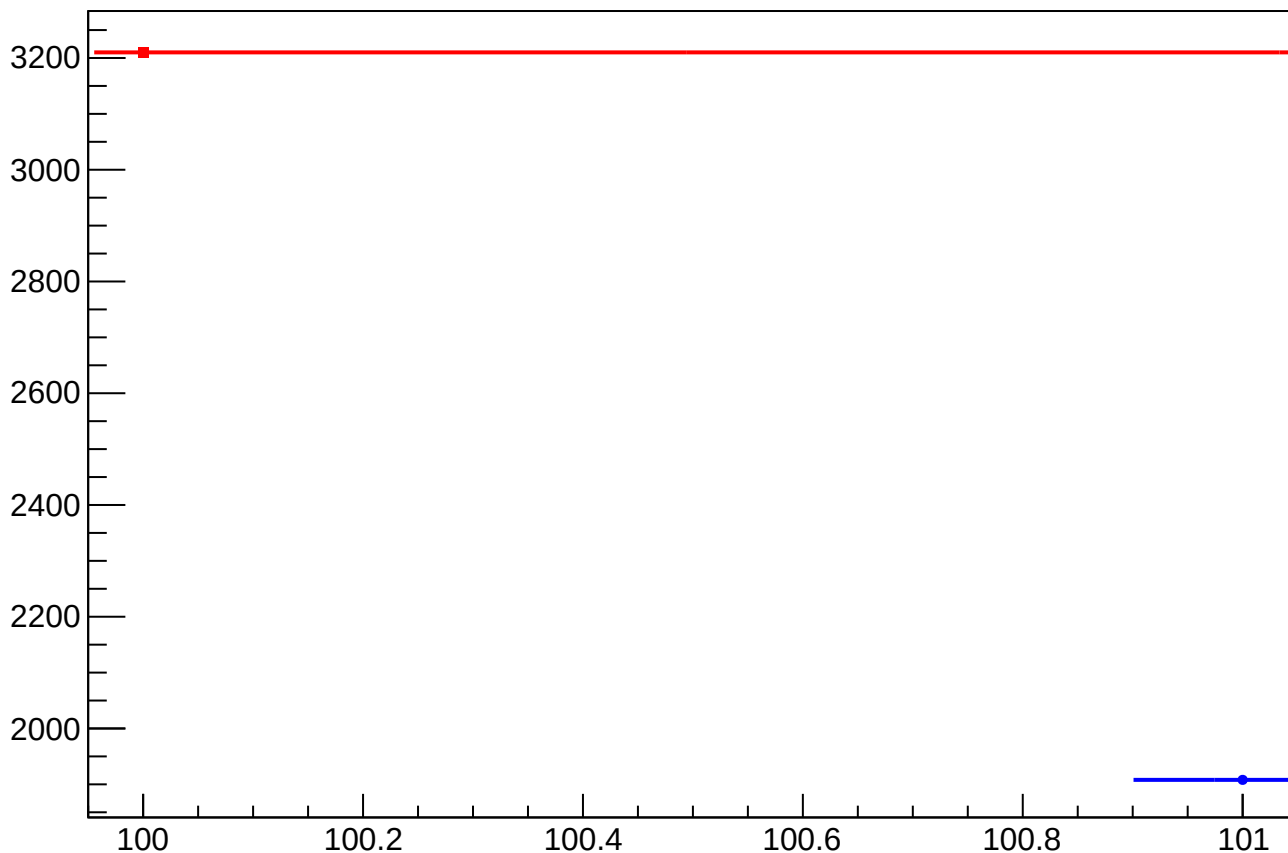
Right: -3255.248+/-2312.368  $\chi^2/\text{NDF}$ : 2.8/1

In: -4015.057+/-2357.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3255.248+/-2312.368  $\chi^2/\text{NDF}$ : 2.8/1

asym\_us\_dd\_atlr\_dd\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1908.018 $\pm$ 1.667  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3210.045 $\pm$ 8.435  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

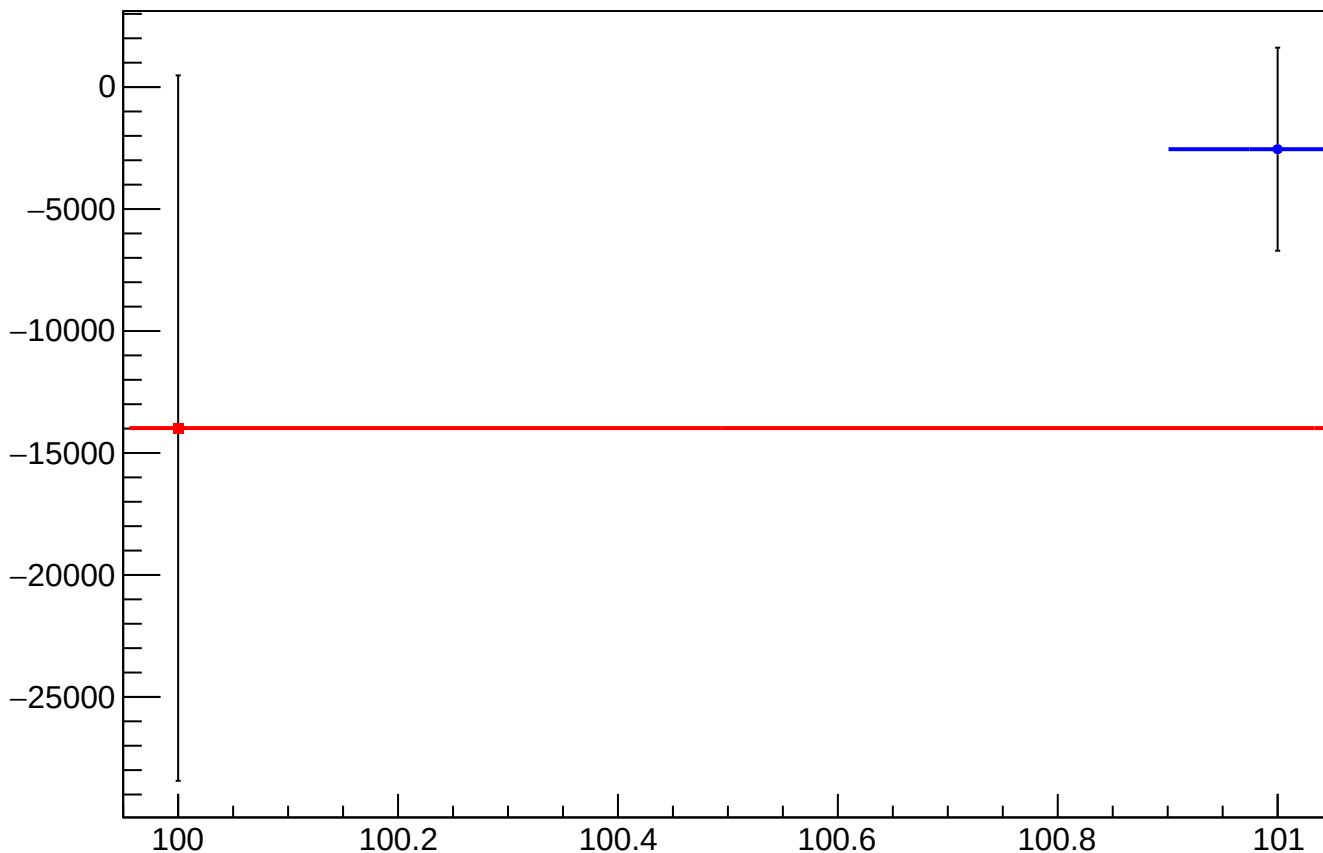
Right: 1956.943 $\pm$ 1.635  $\chi^2$ /NDF: 22931.7/1

In: 1908.018 $\pm$ 1.667  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1956.943 $\pm$ 1.635  $\chi^2$ /NDF: 22931.7/1

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2546.471+/-4161.913  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13978.865+/-14458.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

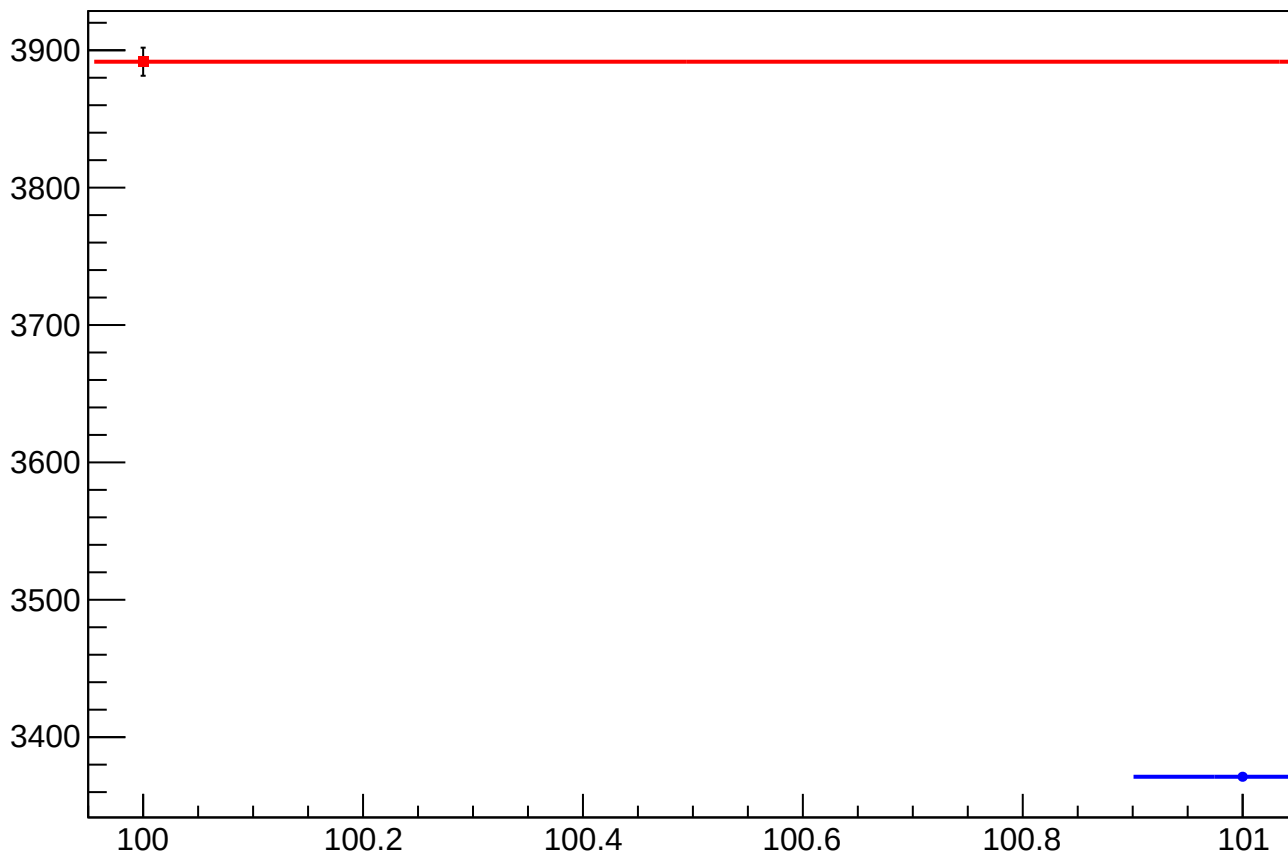
Right: -3421.221+/-3999.520  $\chi^2/\text{NDF}$ : 0.6/1

In: -2546.471+/-4161.913  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3421.221+/-3999.520  $\chi^2/\text{NDF}$ : 0.6/1

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3371.179+/-2.943  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3891.659+/-10.224  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

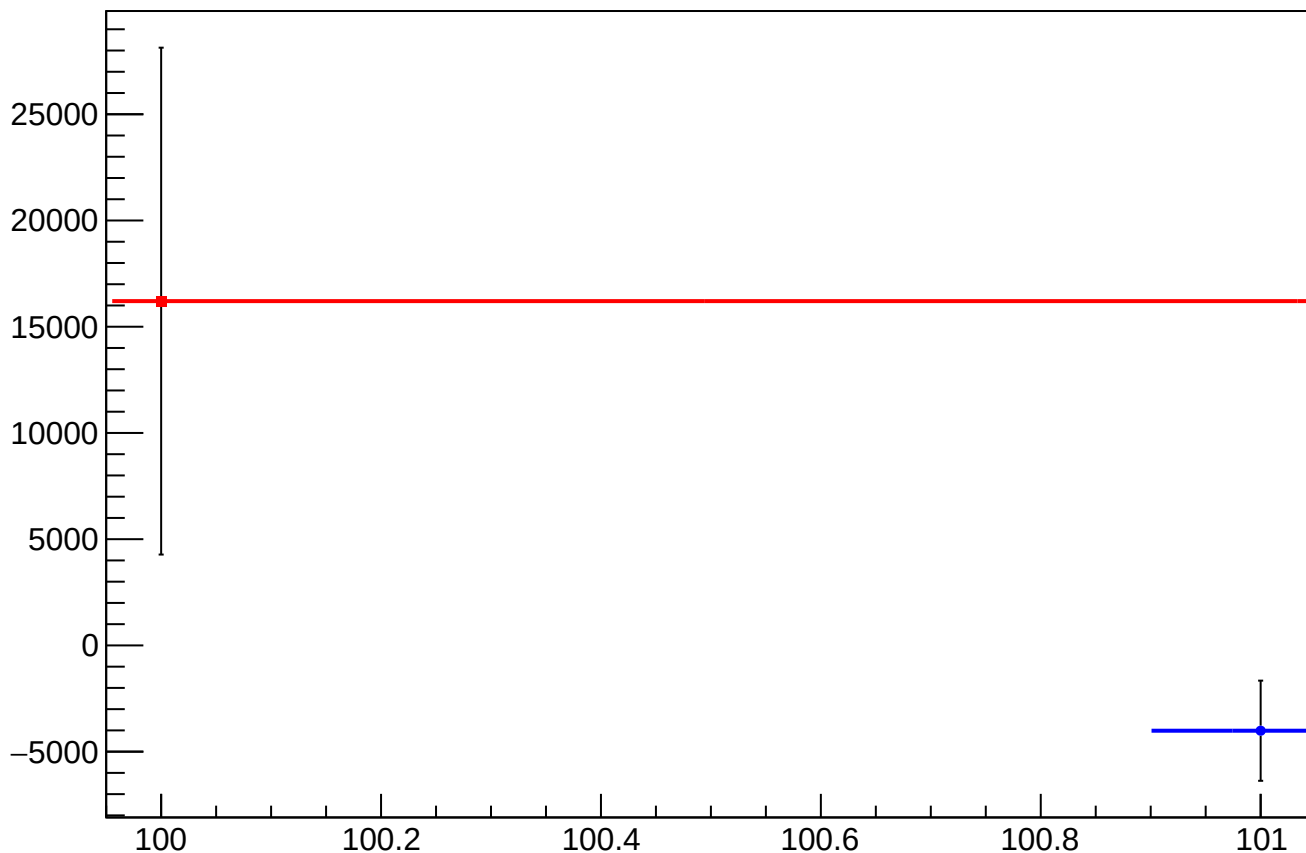
Right: 3411.004+/-2.828  $\chi^2/\text{NDF}$ : 2393.3/1

In: 3371.179+/-2.943  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3411.004+/-2.828  $\chi^2/\text{NDF}$ : 2393.3/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -4015.057+/-2357.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16205.379+/-11928.895  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

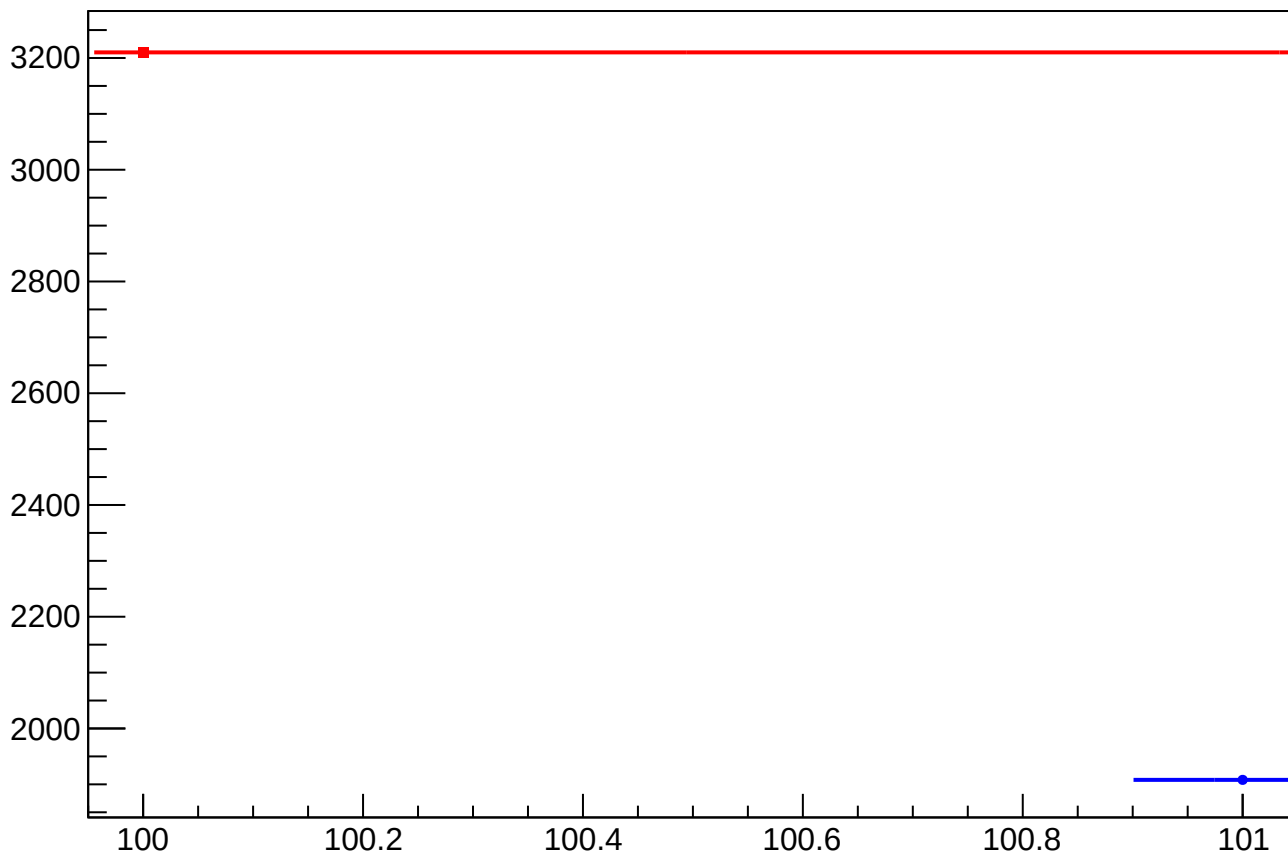
Right: -3255.248+/-2312.368  $\chi^2/\text{NDF}$ : 2.8/1

In: -4015.057+/-2357.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3255.248+/-2312.368  $\chi^2/\text{NDF}$ : 2.8/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1908.018 +/- 1.667  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3210.045 +/- 8.435  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1956.943 +/- 1.635  $\chi^2/\text{NDF}$ : 22931.7/1

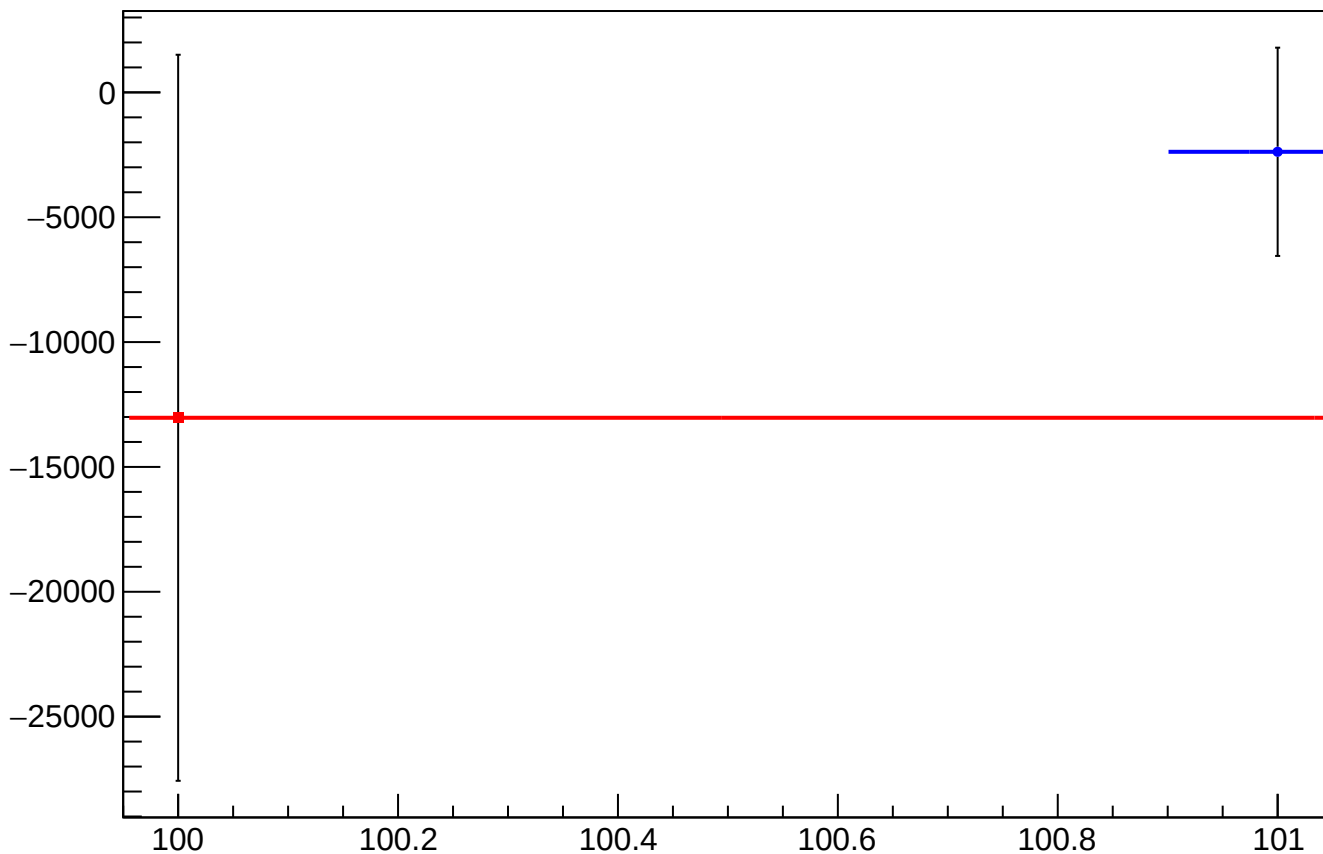
In: 1908.018 +/- 1.667  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1956.943 +/- 1.635  $\chi^2/\text{NDF}$ : 22931.7/1



dit\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2379.682+/-4170.478  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13031.388+/-14538.684  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

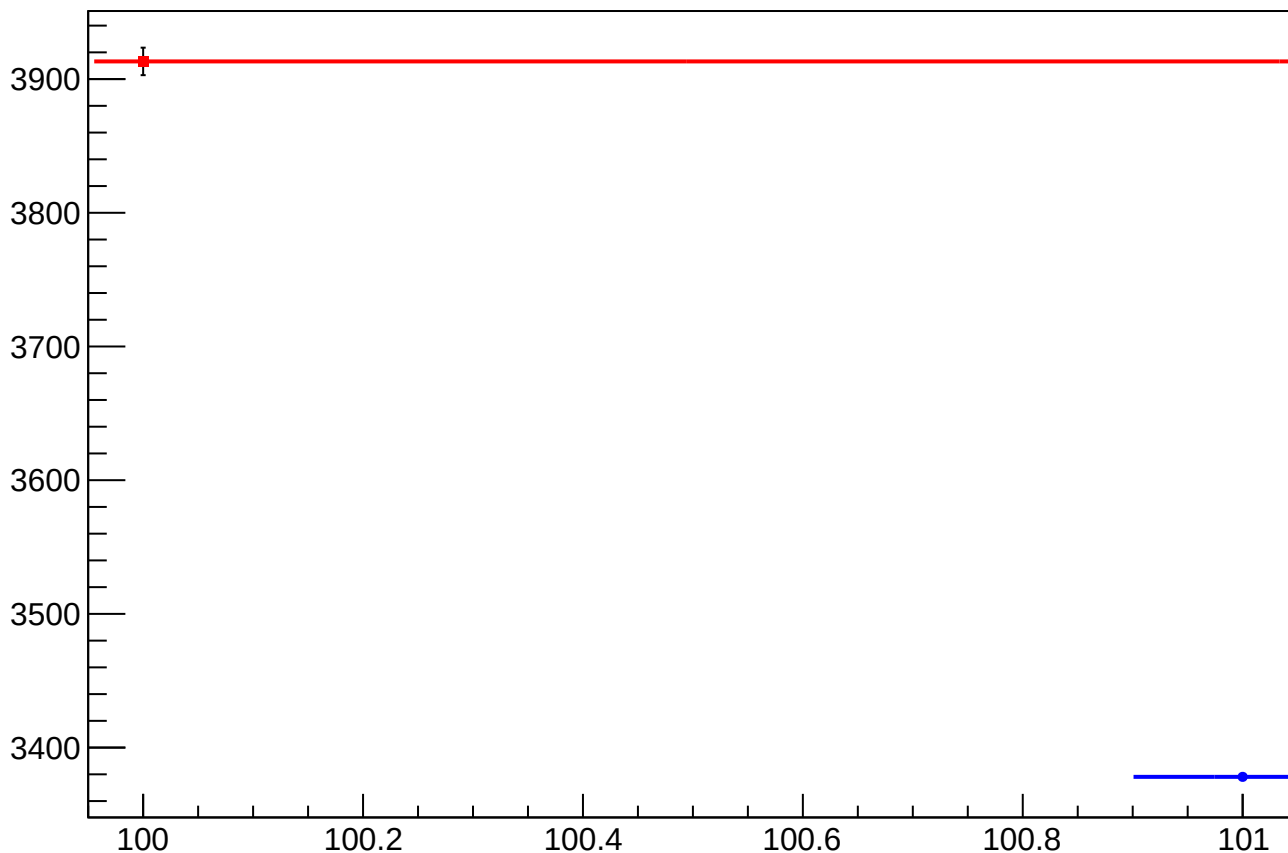
Right: -3189.522+/-4008.806  $\chi^2/\text{NDF}$ : 0.5/1

In: -2379.682+/-4170.478  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3189.522+/-4008.806  $\chi^2/\text{NDF}$ : 0.5/1

dit\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3378.107 $\pm$ 2.949  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3913.222 $\pm$ 10.280  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

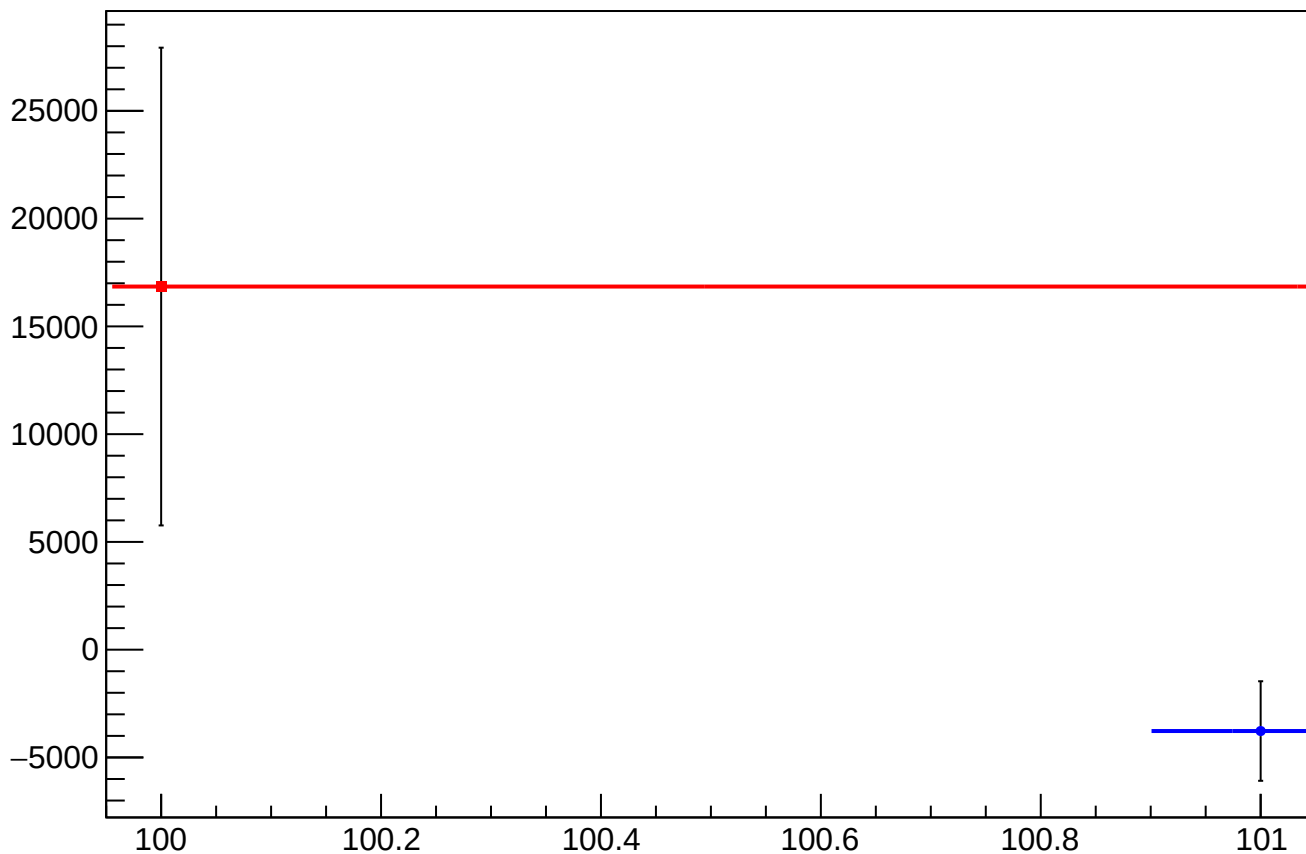
Right: 3418.791 $\pm$ 2.835  $\chi^2$ /NDF: 2503.4/1

In: 3378.107 $\pm$ 2.949  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3418.791 $\pm$ 2.835  $\chi^2$ /NDF: 2503.4/1

asym\_us\_dd\_atlr\_dd\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3774.212+/-2309.415  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16848.534+/-11083.571  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

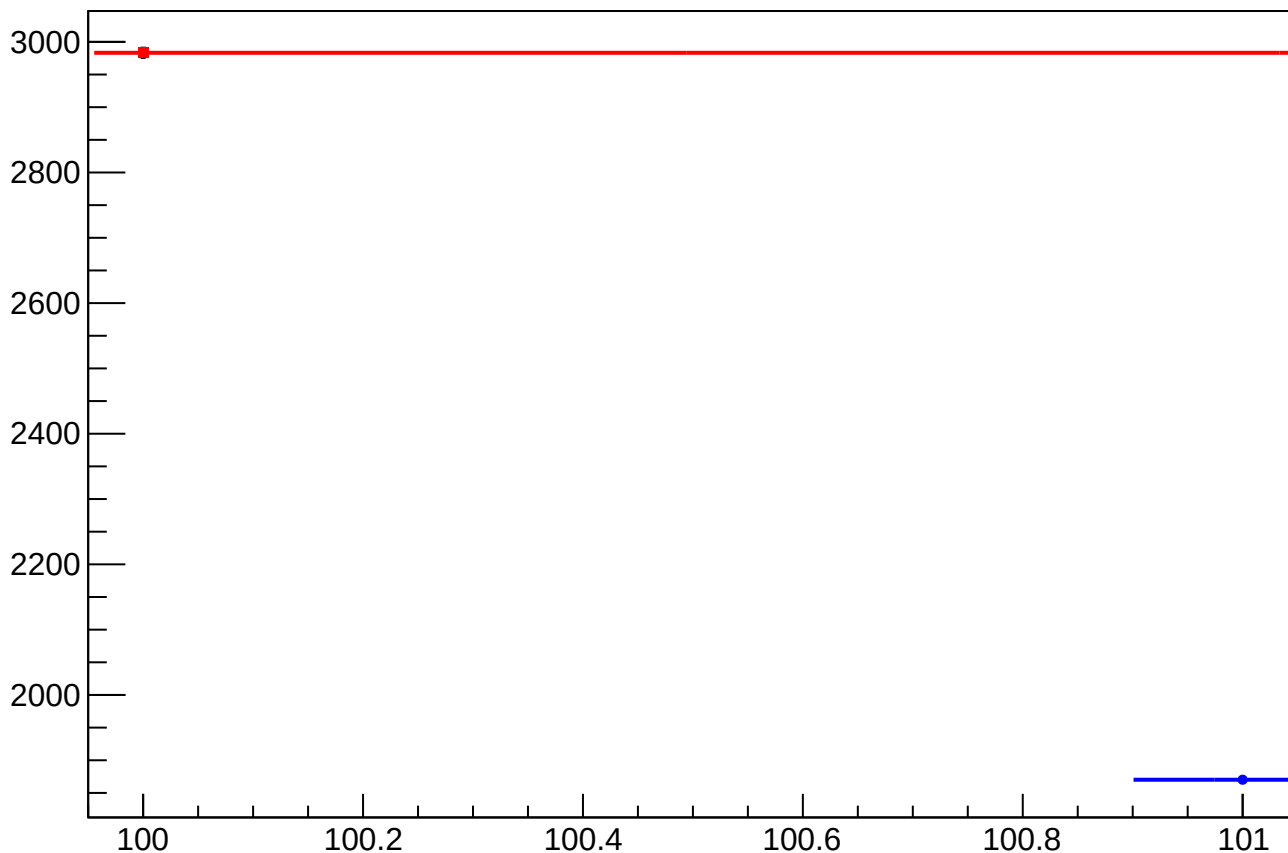
Right: -2916.121+/-2260.858  $\chi^2/\text{NDF}$ : 3.3/1

In: -3774.212+/-2309.415  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2916.121+/-2260.858  $\chi^2/\text{NDF}$ : 3.3/1

asym\_us\_dd\_atlr\_dd\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1870.196 $\pm$ 1.633  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2983.293 $\pm$ 7.837  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

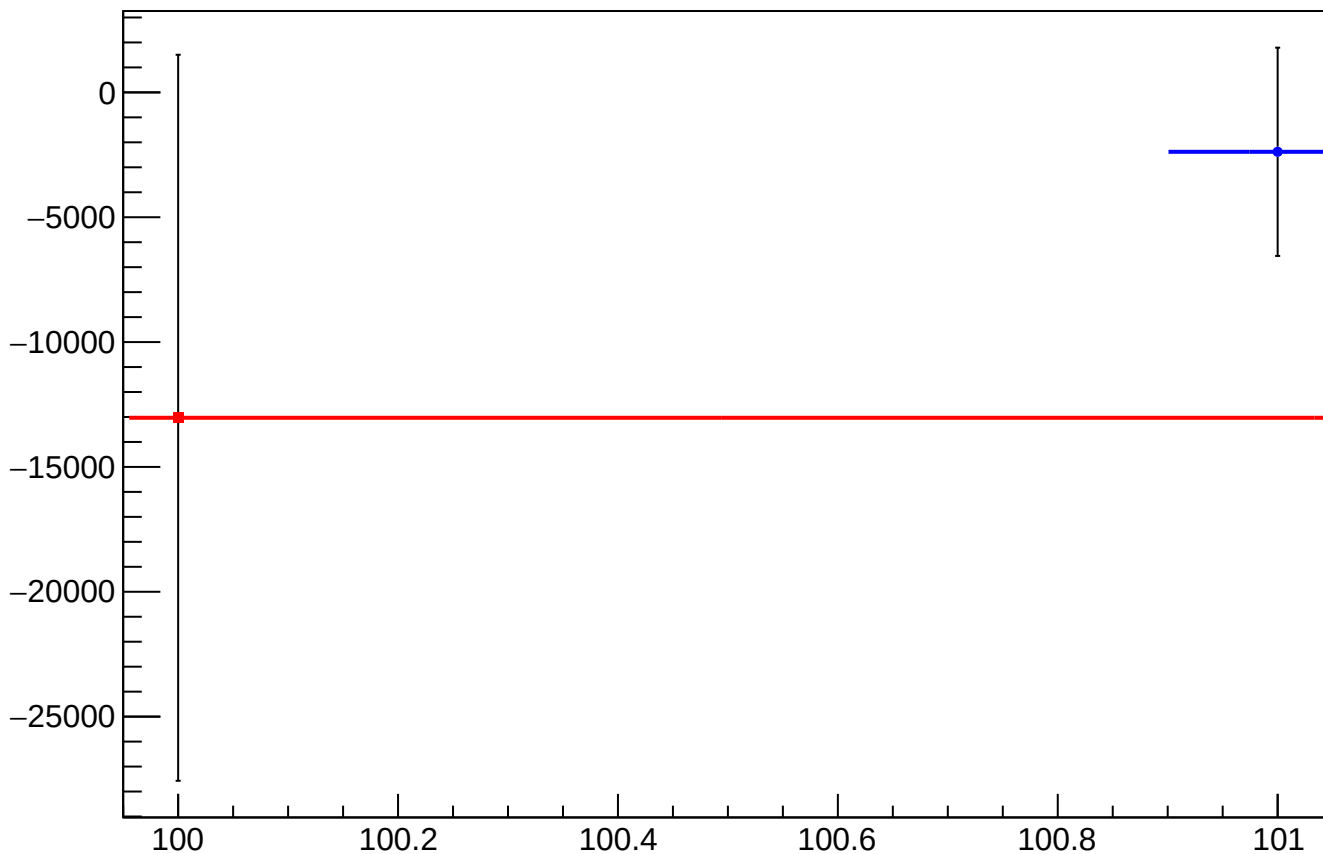
Right: 1916.511 $\pm$ 1.599  $\chi^2$ /NDF: 19332.1/1

In: 1870.196 $\pm$ 1.633  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1916.511 $\pm$ 1.599  $\chi^2$ /NDF: 19332.1/1

eigen\_dit\_asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -2379.664 $\pm$ 4170.478  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -13031.469 $\pm$ 14538.685  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

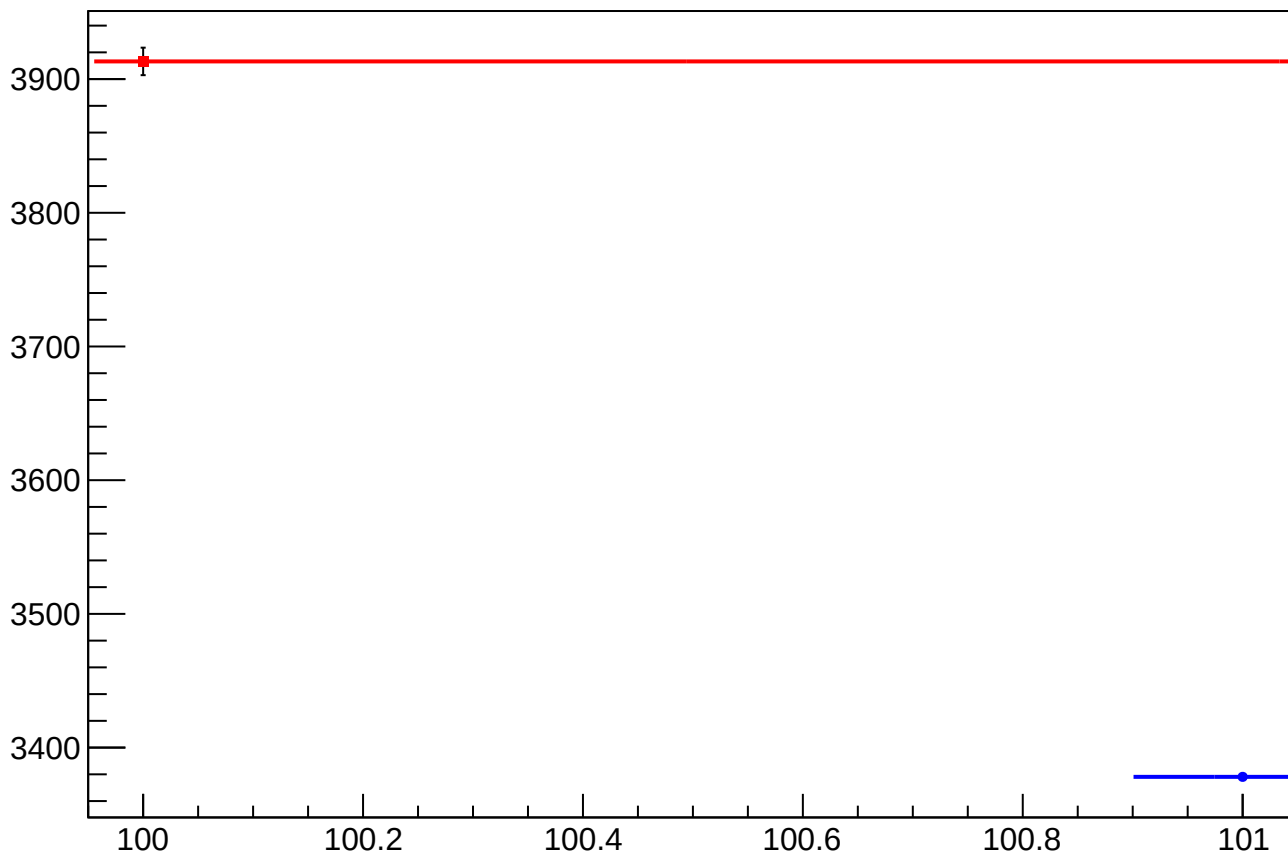
Right: -3189.511 $\pm$ 4008.806  $\chi^2$ /NDF: 0.5/1

In: -2379.664 $\pm$ 4170.478  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3189.511 $\pm$ 4008.806  $\chi^2$ /NDF: 0.5/1

eigen\_dit\_asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3378.107+/-2.949  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3913.222+/-10.280  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

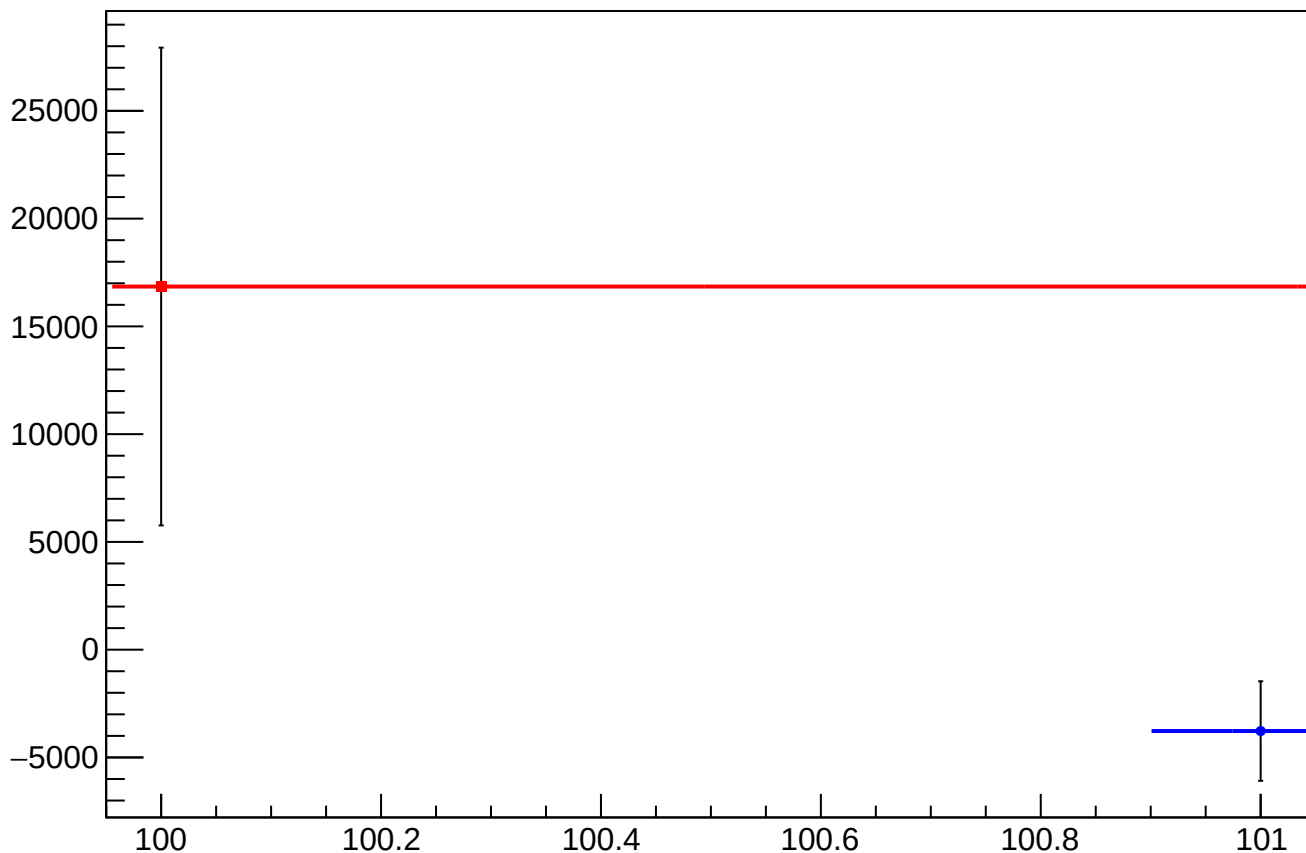
Right: 3418.791+/-2.835  $\chi^2/\text{NDF}$ : 2503.4/1

In: 3378.107+/-2.949  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3418.791+/-2.835  $\chi^2/\text{NDF}$ : 2503.4/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3774.198+/-2309.408  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16848.453+/-11083.535  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

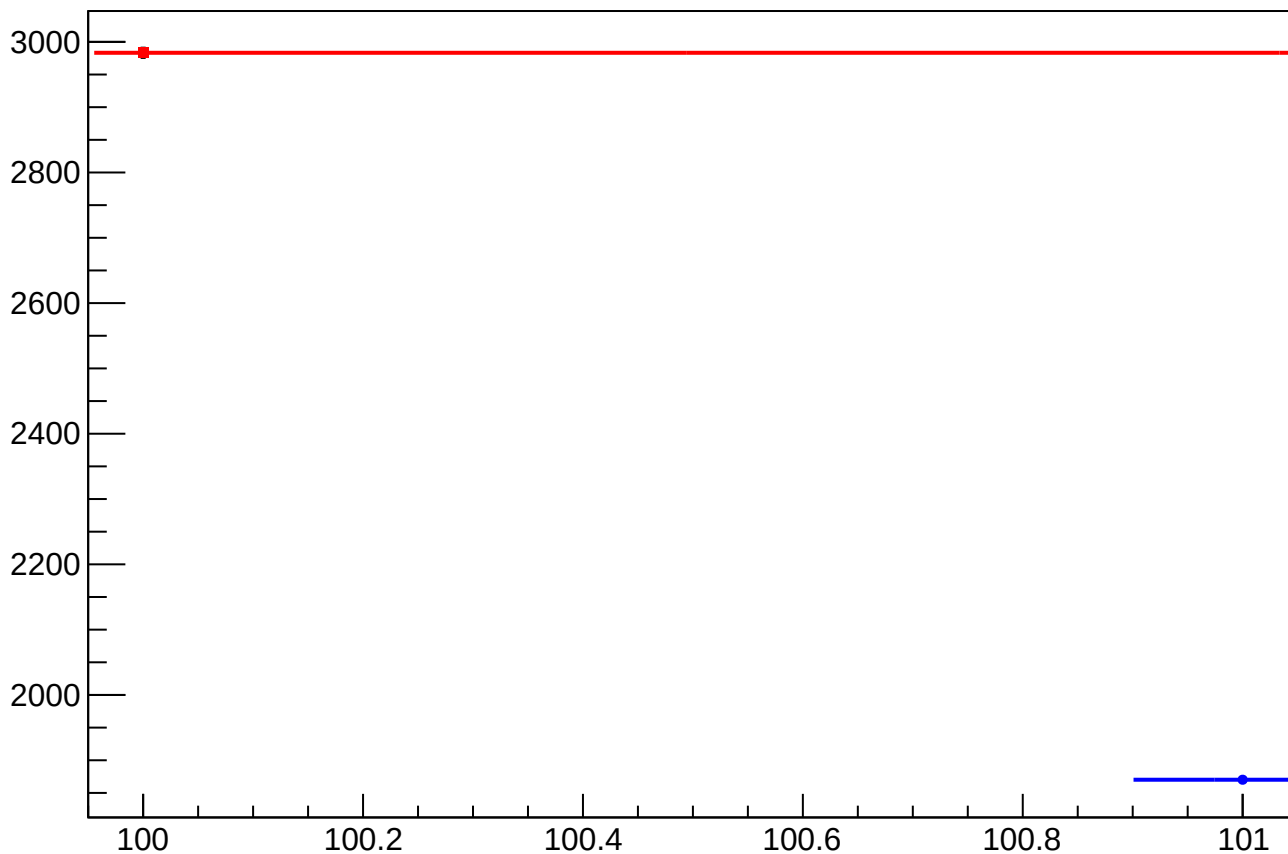
Right: -2916.110+/-2260.852  $\chi^2/\text{NDF}$ : 3.3/1

In: -3774.198+/-2309.408  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2916.110+/-2260.852  $\chi^2/\text{NDF}$ : 3.3/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1870.191+/-1.633  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2983.283+/-7.837  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1916.505+/-1.599  $\chi^2/\text{NDF}$ : 19332.1/1

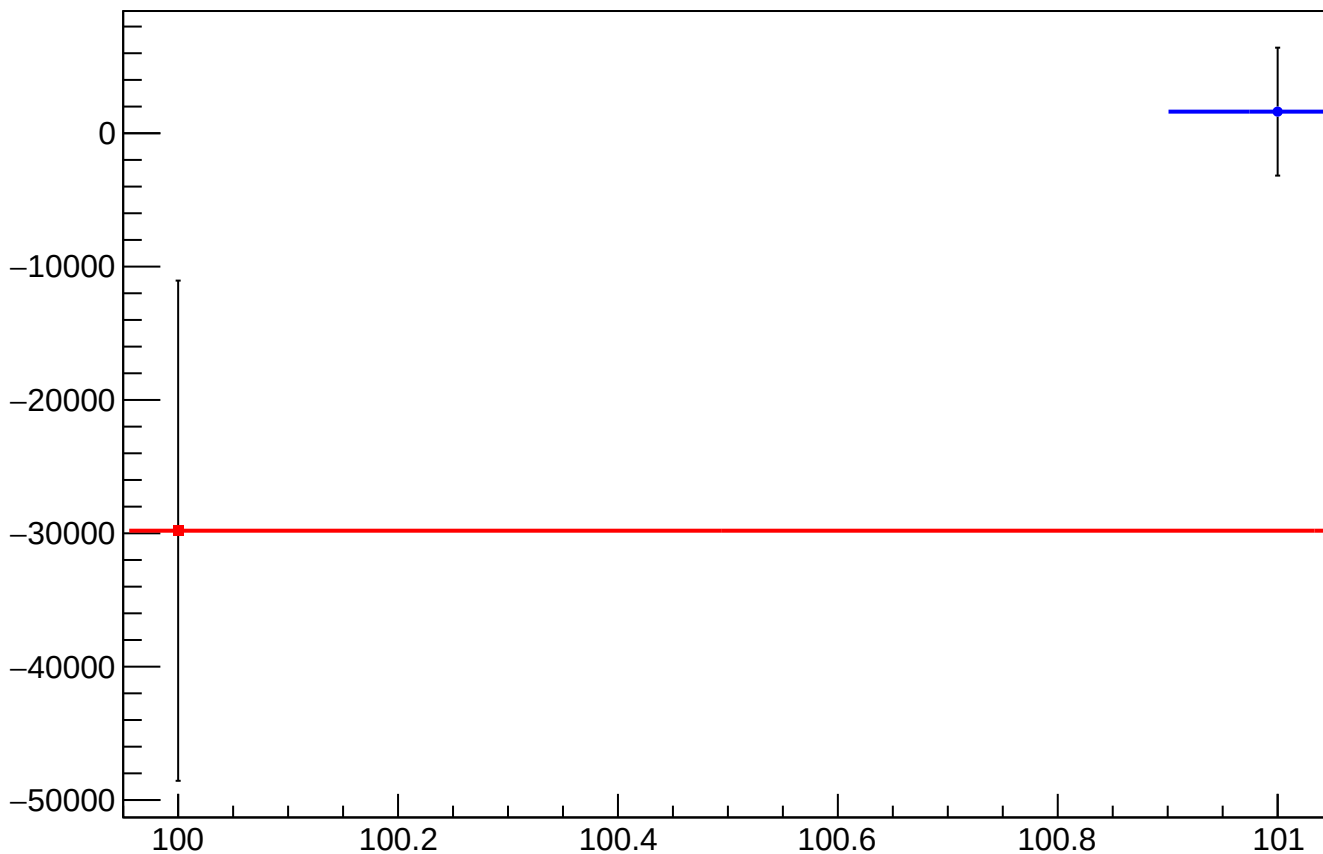
In: 1870.191+/-1.633  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1916.505+/-1.599  $\chi^2/\text{NDF}$ : 19332.1/1



asym\_us\_dd\_atlr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: 1620.318+/-4796.703  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29804.463+/-18754.220  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

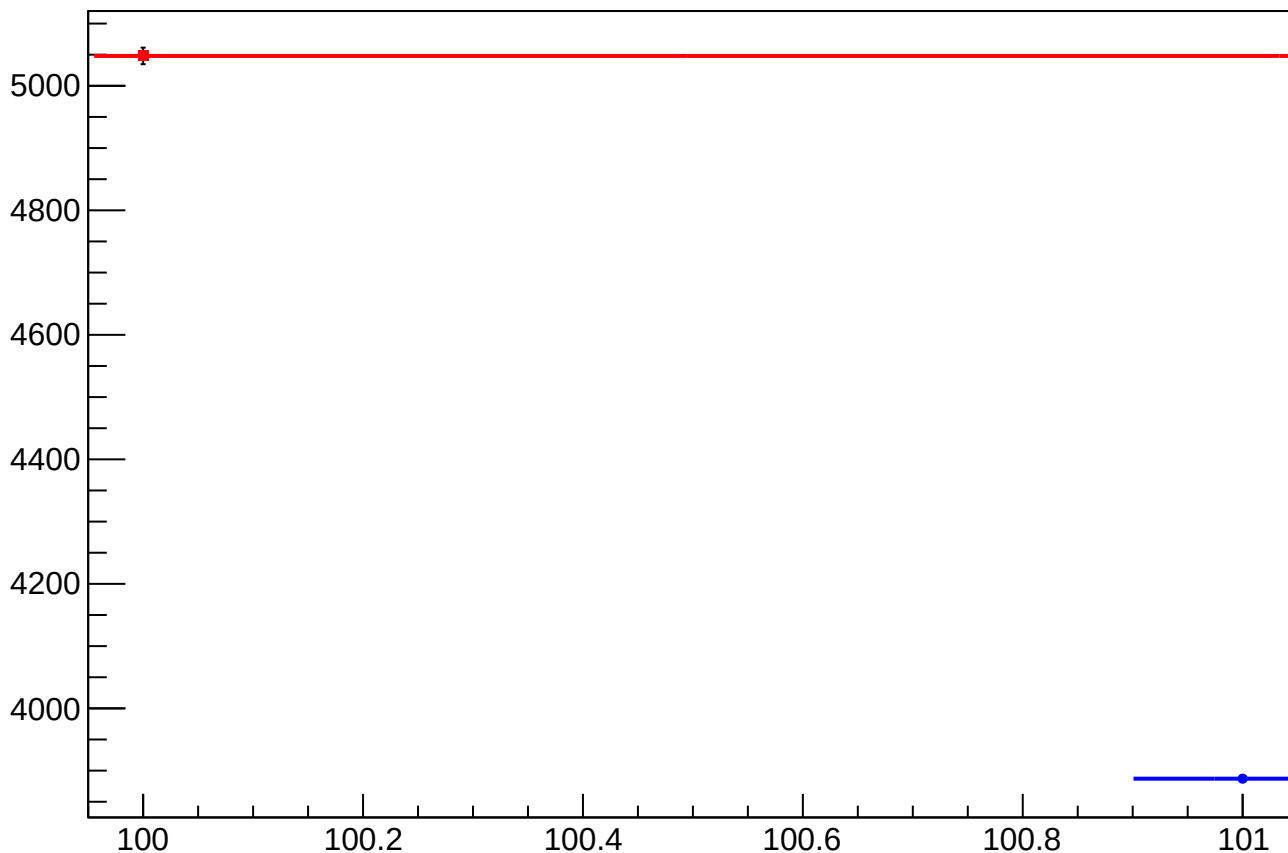
Right: -309.163+/-4647.111  $\chi^2/\text{NDF}$ : 2.6/1

In: 1620.318+/-4796.703  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -309.163+/-4647.111  $\chi^2/\text{NDF}$ : 2.6/1

asym\_us\_dd\_atlr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3887.056 $\pm$ 3.392  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5047.999 $\pm$ 13.261  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

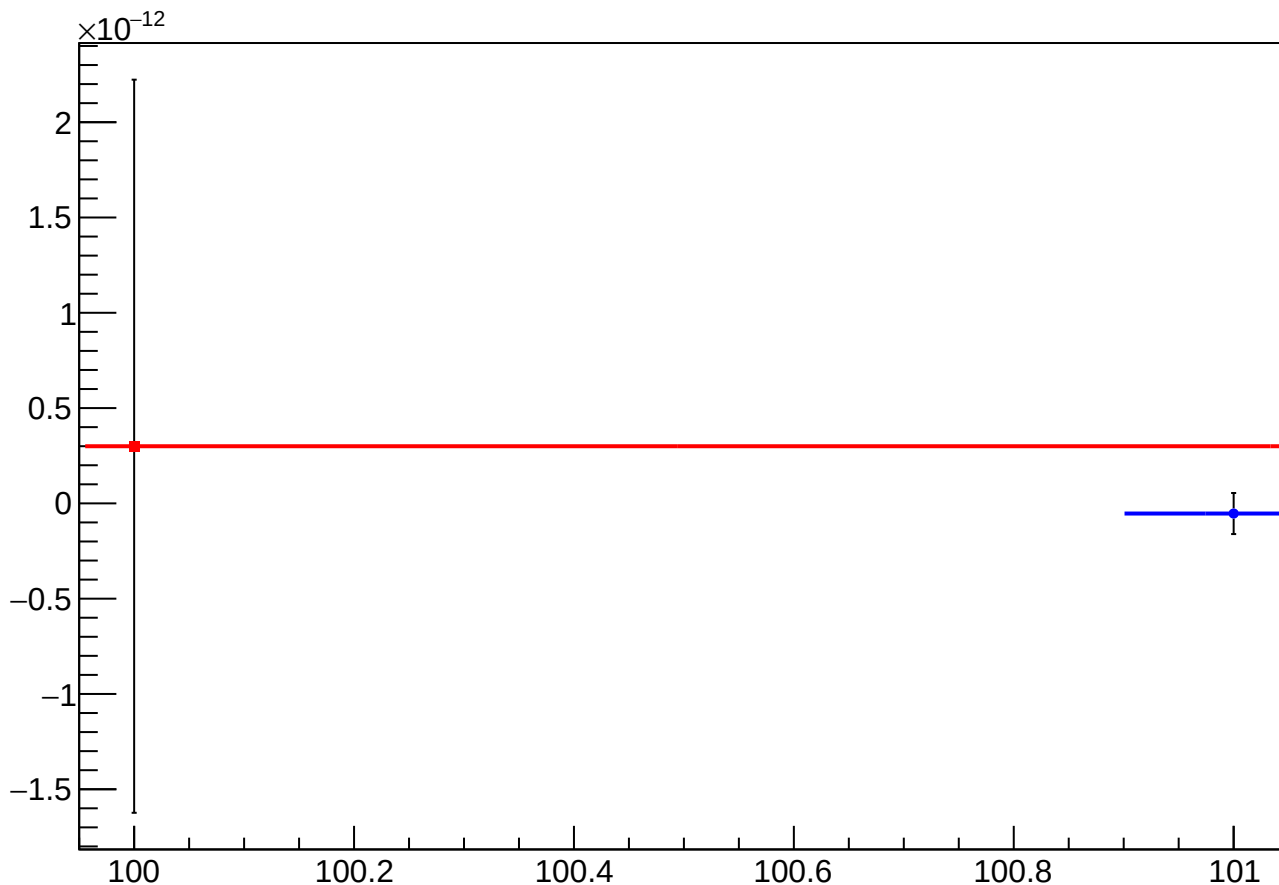
Right: 3958.338 $\pm$ 3.286  $\chi^2$ /NDF: 7193.4/1

In: 3887.056 $\pm$ 3.392  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3958.338 $\pm$ 3.286  $\chi^2$ /NDF: 7193.4/1

asym\_us\_dd\_atlr\_dd\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

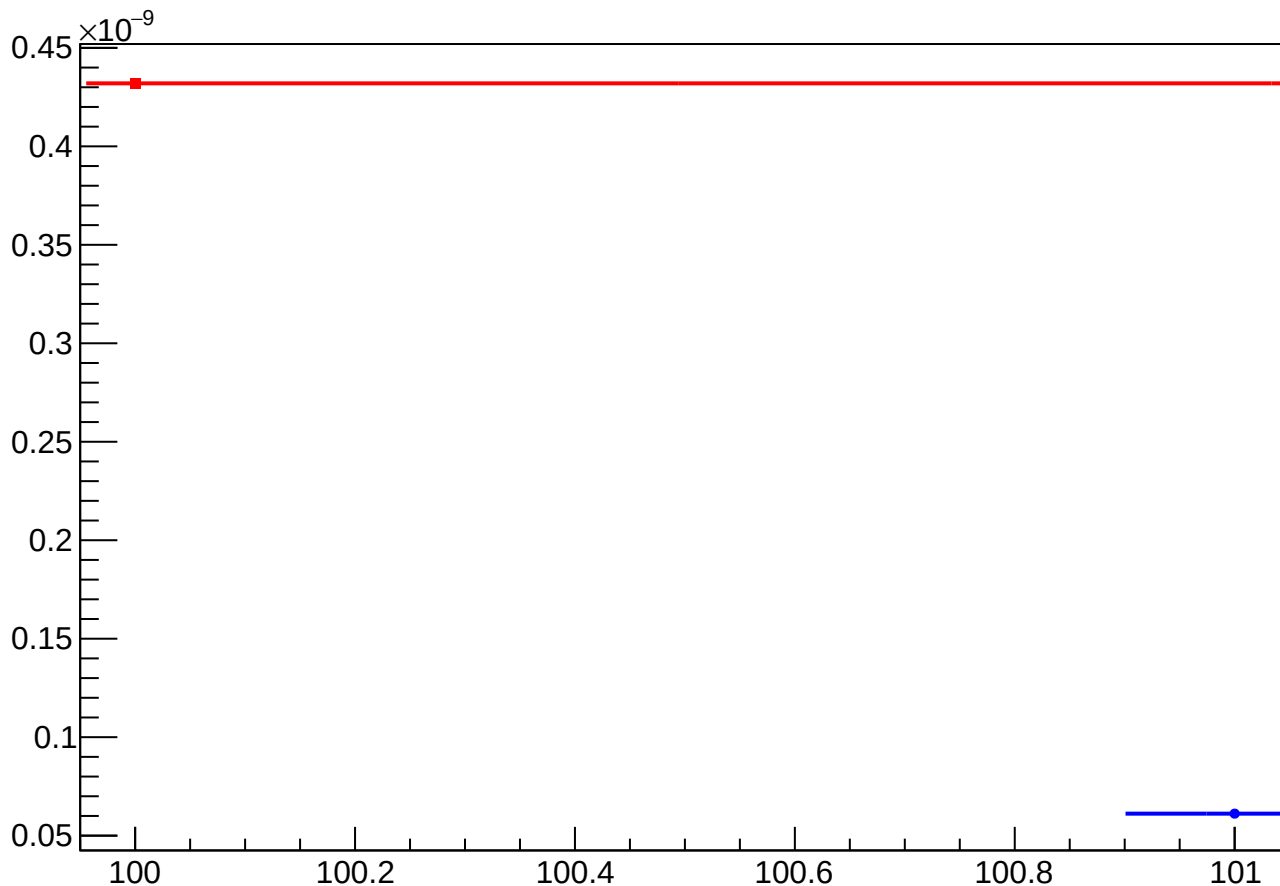
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_atlr\_dd\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

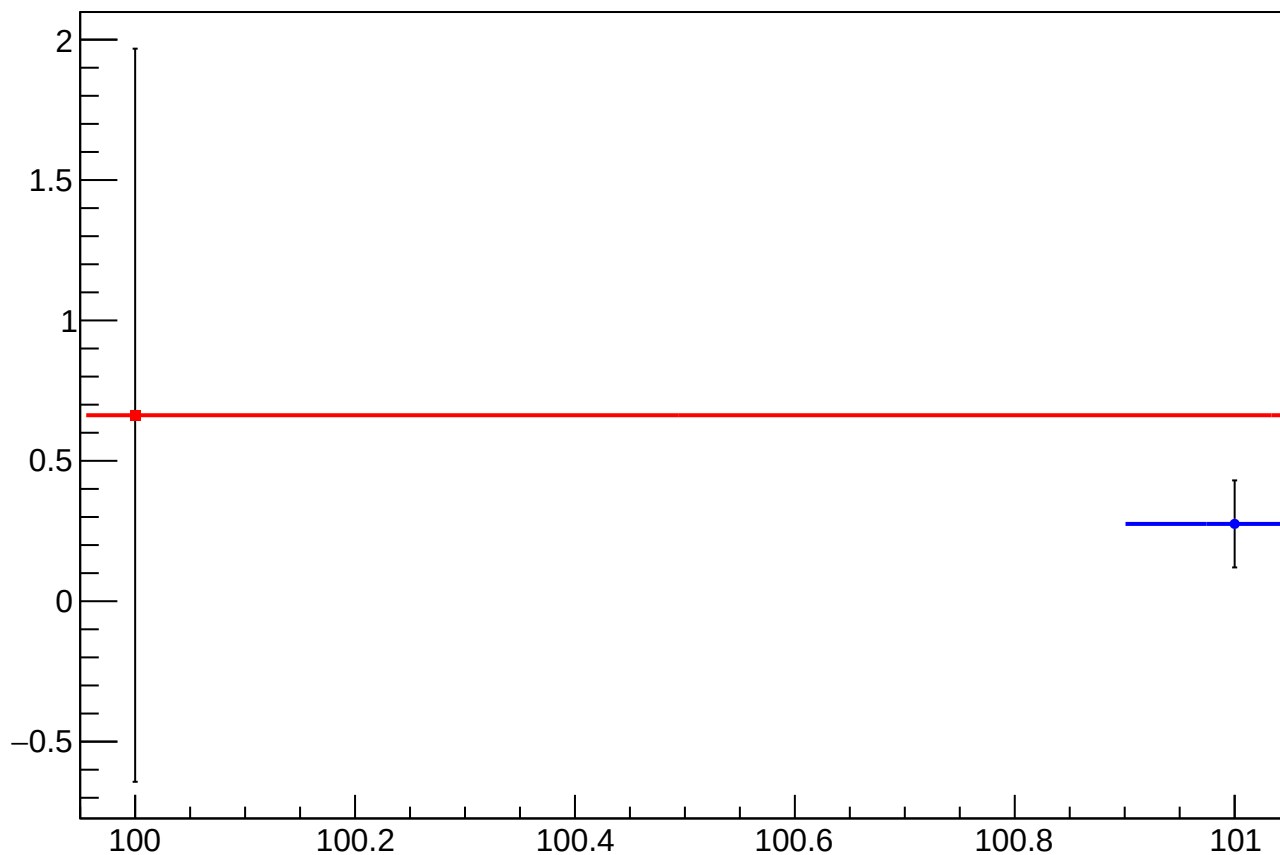
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 74107.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 74107.7/1

asym\_us\_dd\_atlr\_dd\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.275 $\pm$ 0.155  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.662 $\pm$ 1.305  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

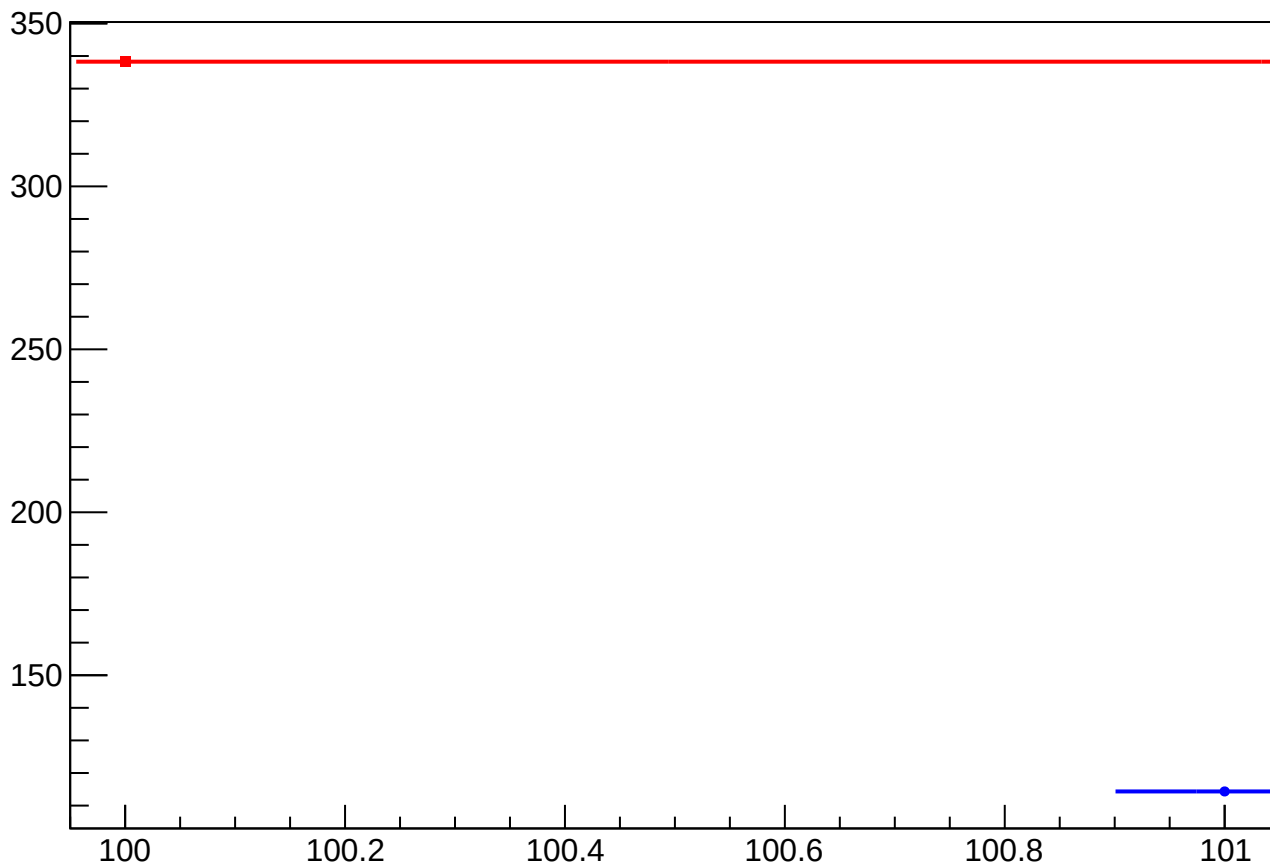
Right: 0.281 $\pm$ 0.154  $\chi^2$ /NDF: 0.1/1

In: 0.275 $\pm$ 0.155  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.281 $\pm$ 0.154  $\chi^2$ /NDF: 0.1/1

asym\_us\_dd\_atlr\_dd\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 114.343 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 338.262 $\pm$ 0.923  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

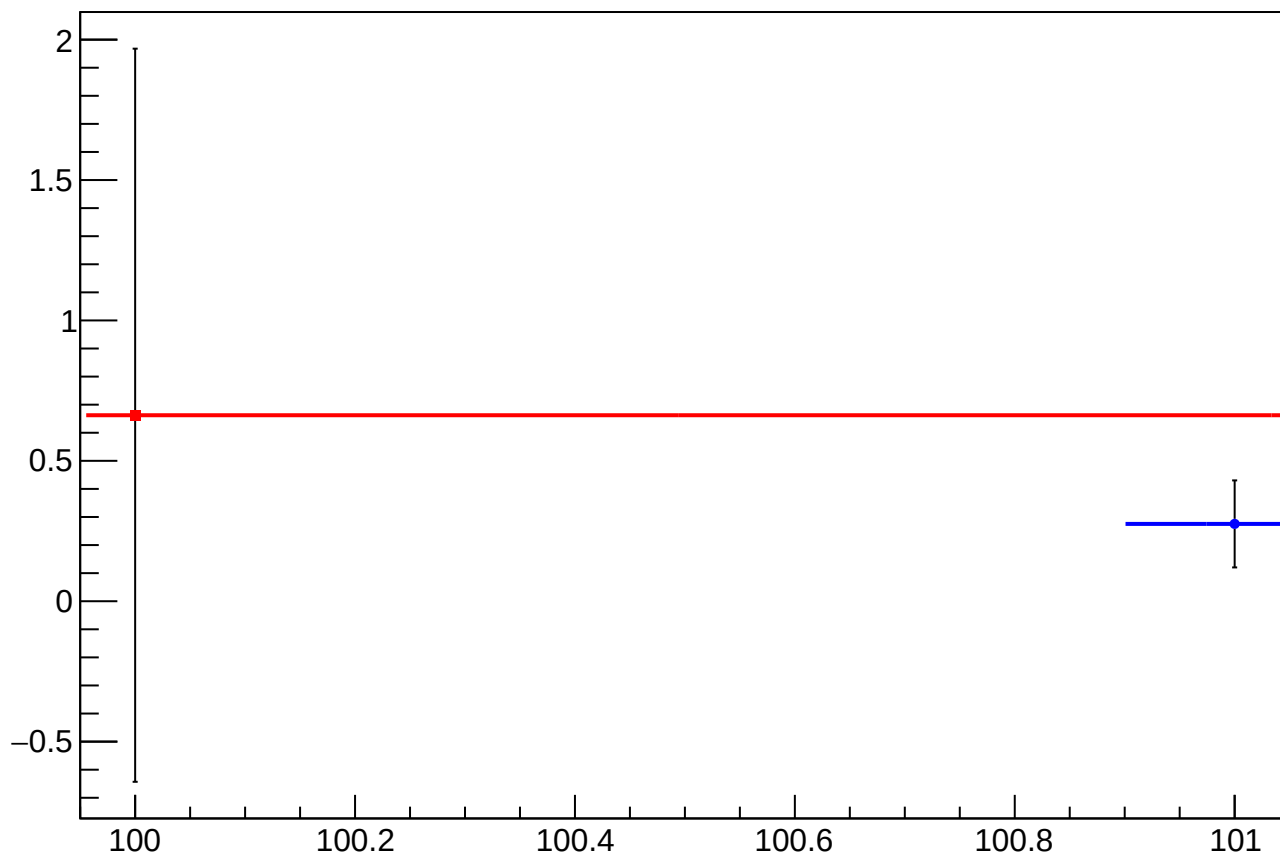
Right: 117.455 $\pm$ 0.109  $\chi^2$ /NDF: 58023.5/1

In: 114.343 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.455 $\pm$ 0.109  $\chi^2$ /NDF: 58023.5/1

asym\_us\_dd\_atlr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.275+/-0.155  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.662+/-1.305  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

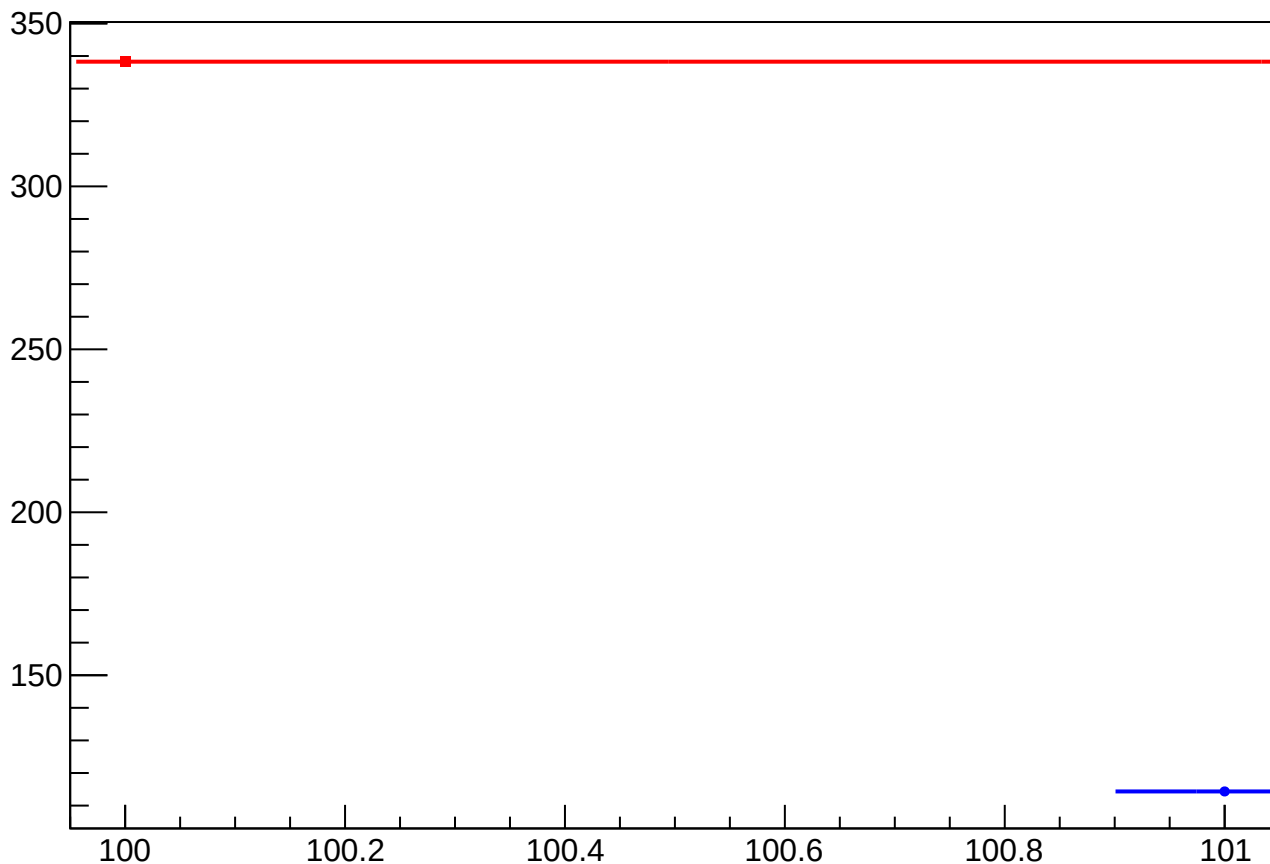
Right: 0.281+/-0.154  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.275+/-0.155  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.281+/-0.154  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_dd\_atlr\_dd\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 114.343 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 338.262 $\pm$ 0.923  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 117.455 $\pm$ 0.109  $\chi^2$ /NDF: 58023.5/1

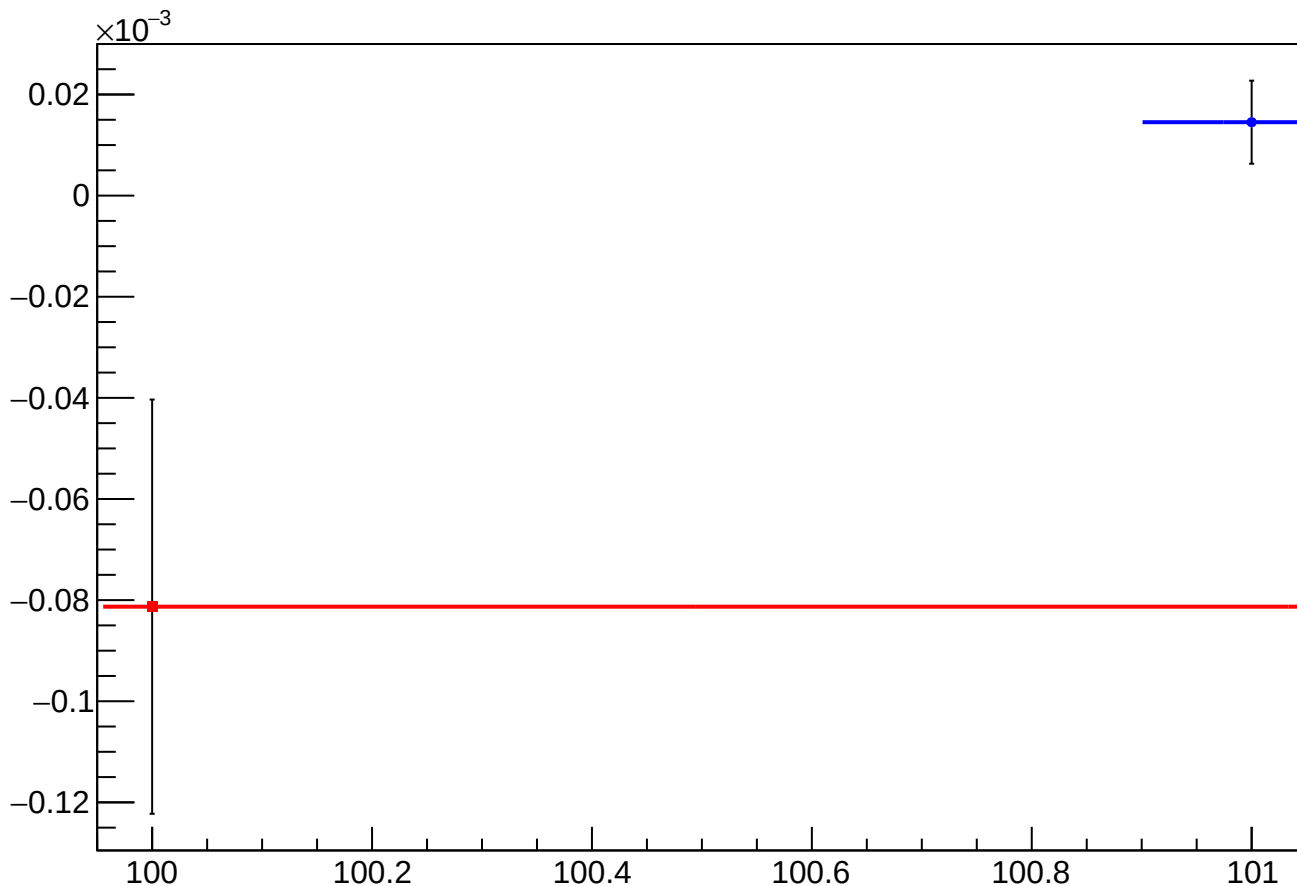
In: 114.343 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.455 $\pm$ 0.109  $\chi^2$ /NDF: 58023.5/1



asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

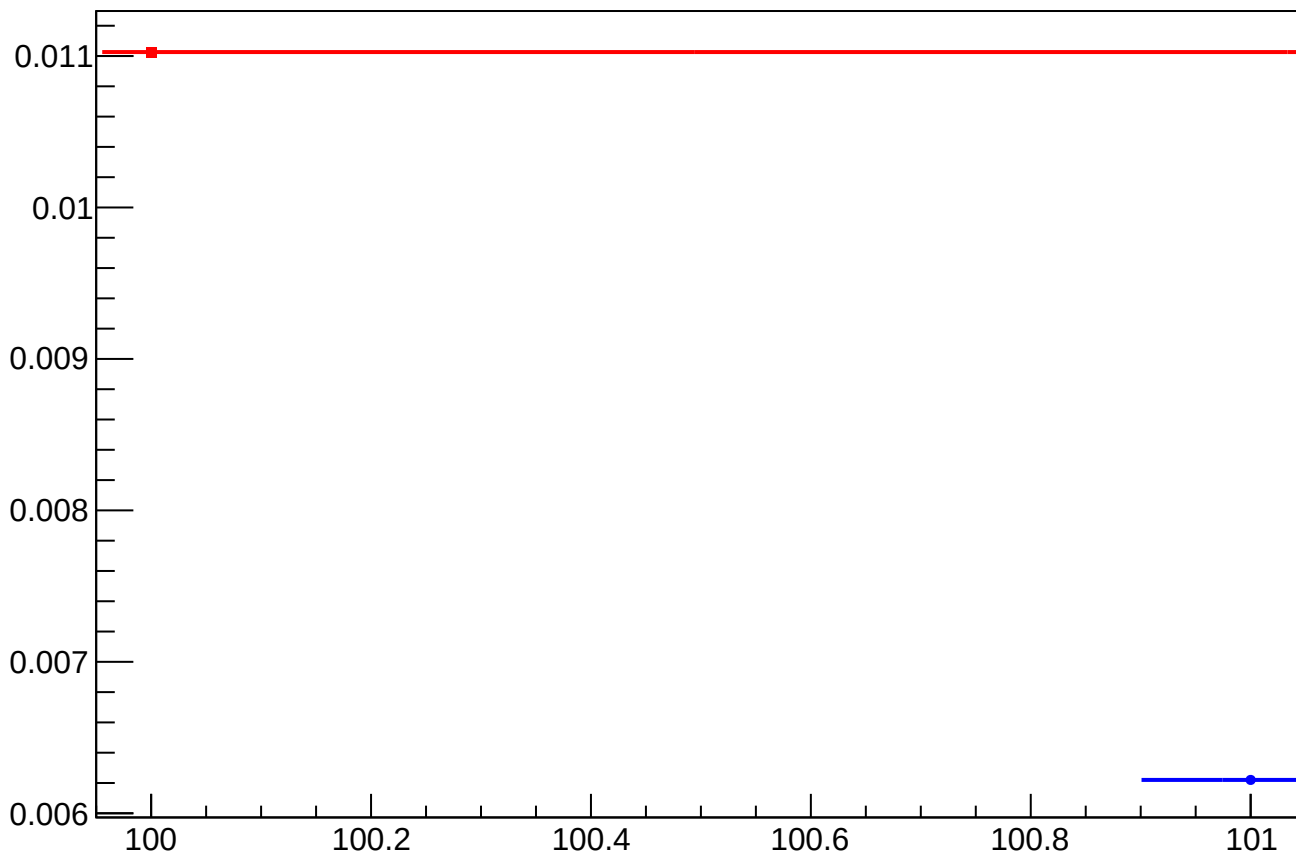
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.3/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

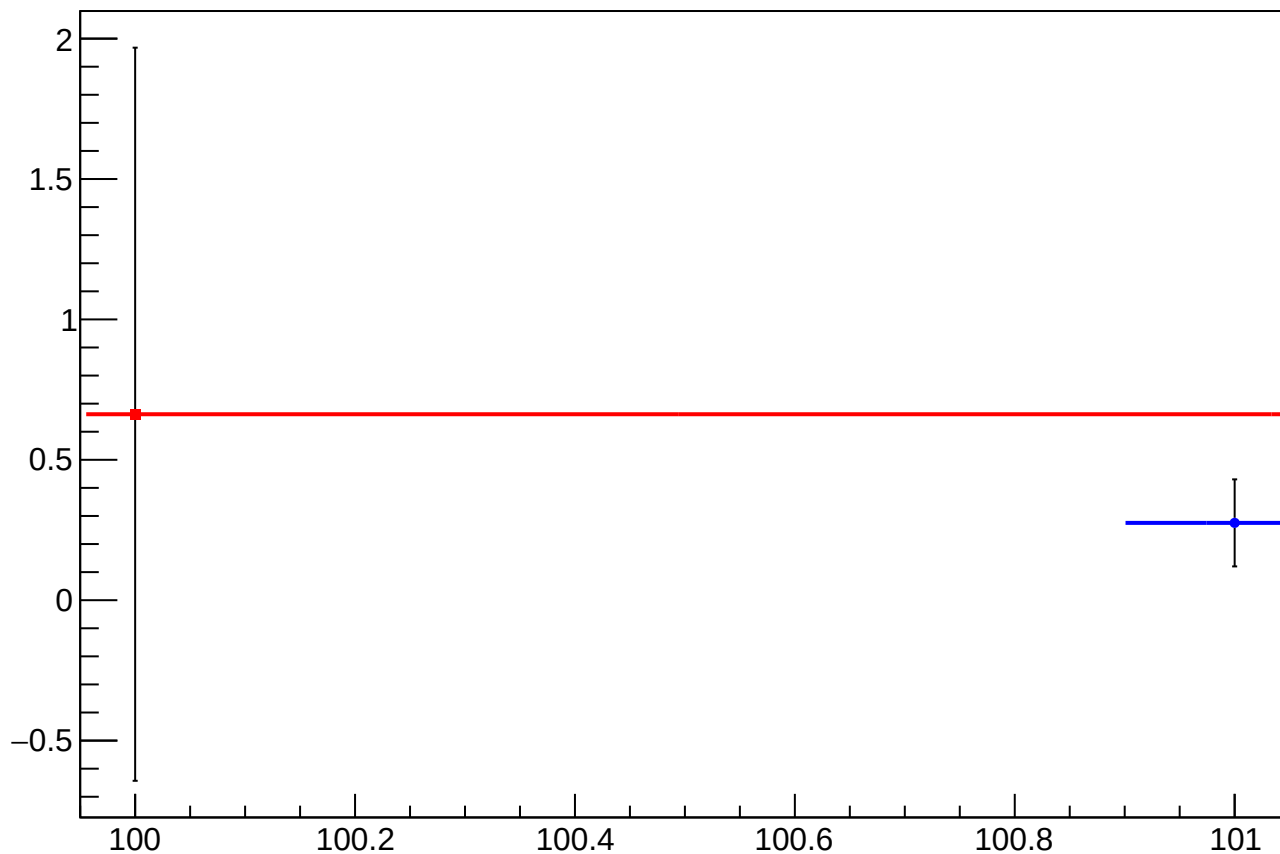
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 26463.9/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 26463.9/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.275+/-0.155  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.662+/-1.305  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.281+/-0.154  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.275+/-0.155  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.281+/-0.154  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 114.344+/-0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 338.265+/-0.923  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

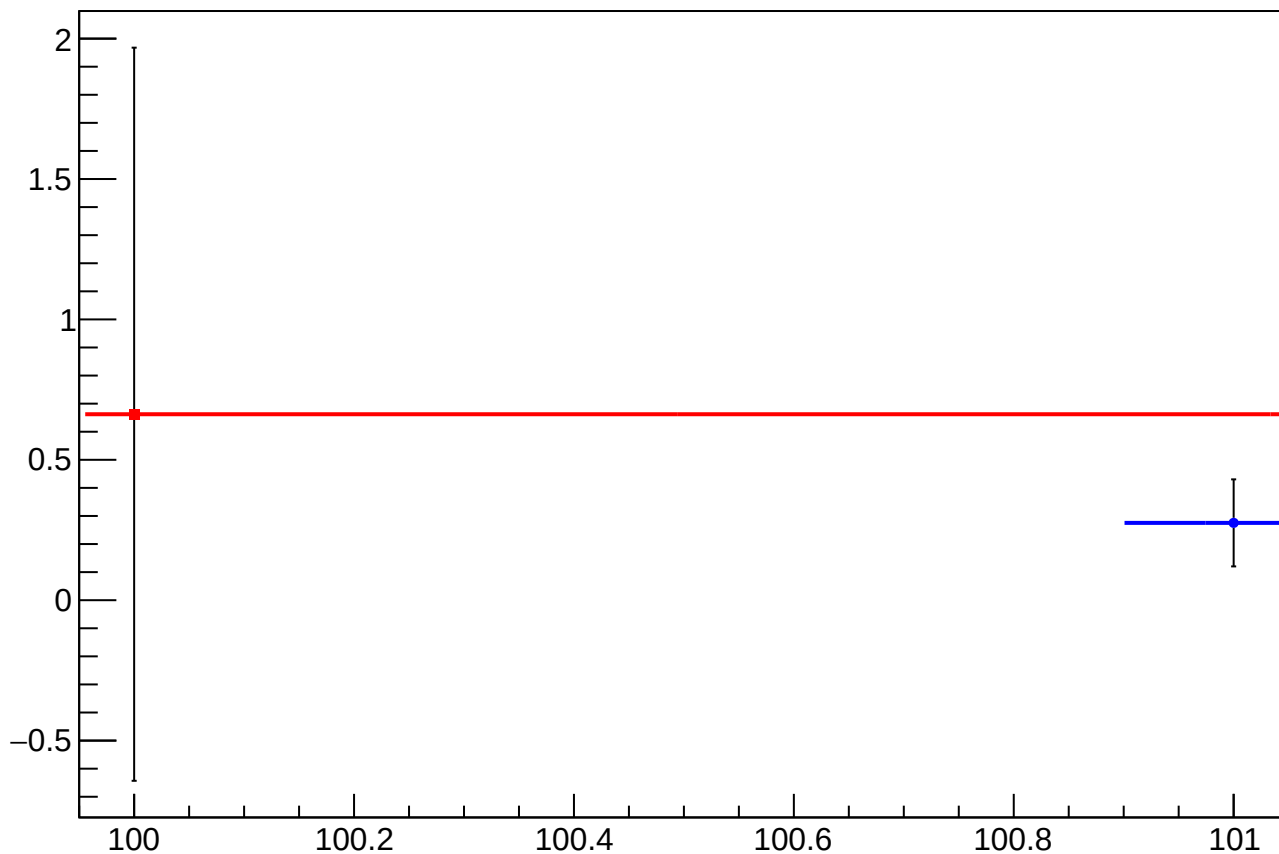
Right: 117.456+/-0.109  $\chi^2$ /NDF: 58023.4/1

In: 114.344+/-0.110  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 117.456+/-0.109  $\chi^2$ /NDF: 58023.4/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.275 $\pm$ 0.155  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.662 $\pm$ 1.305  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

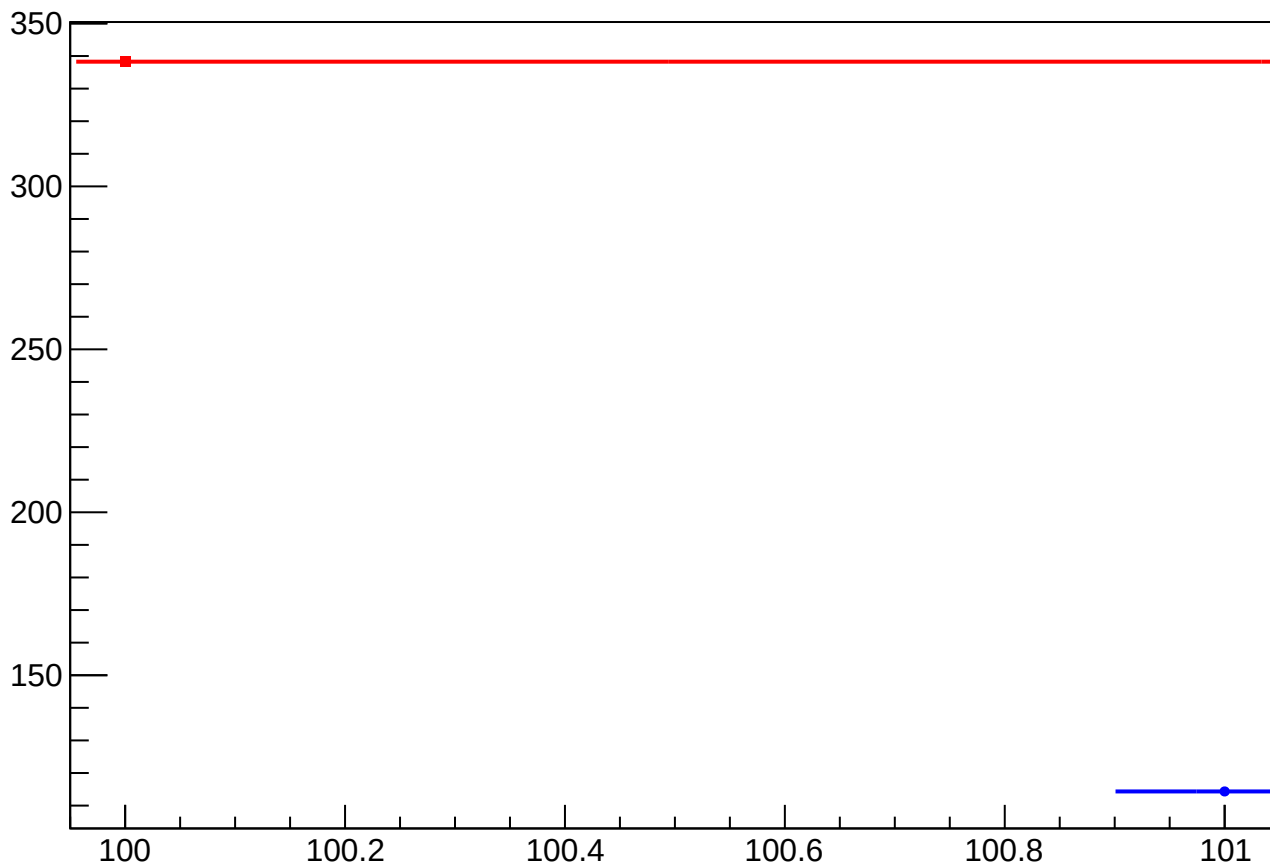
Right: 0.281 $\pm$ 0.154  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.275 $\pm$ 0.155  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.281 $\pm$ 0.154  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 114.344 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 338.265 $\pm$ 0.923  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

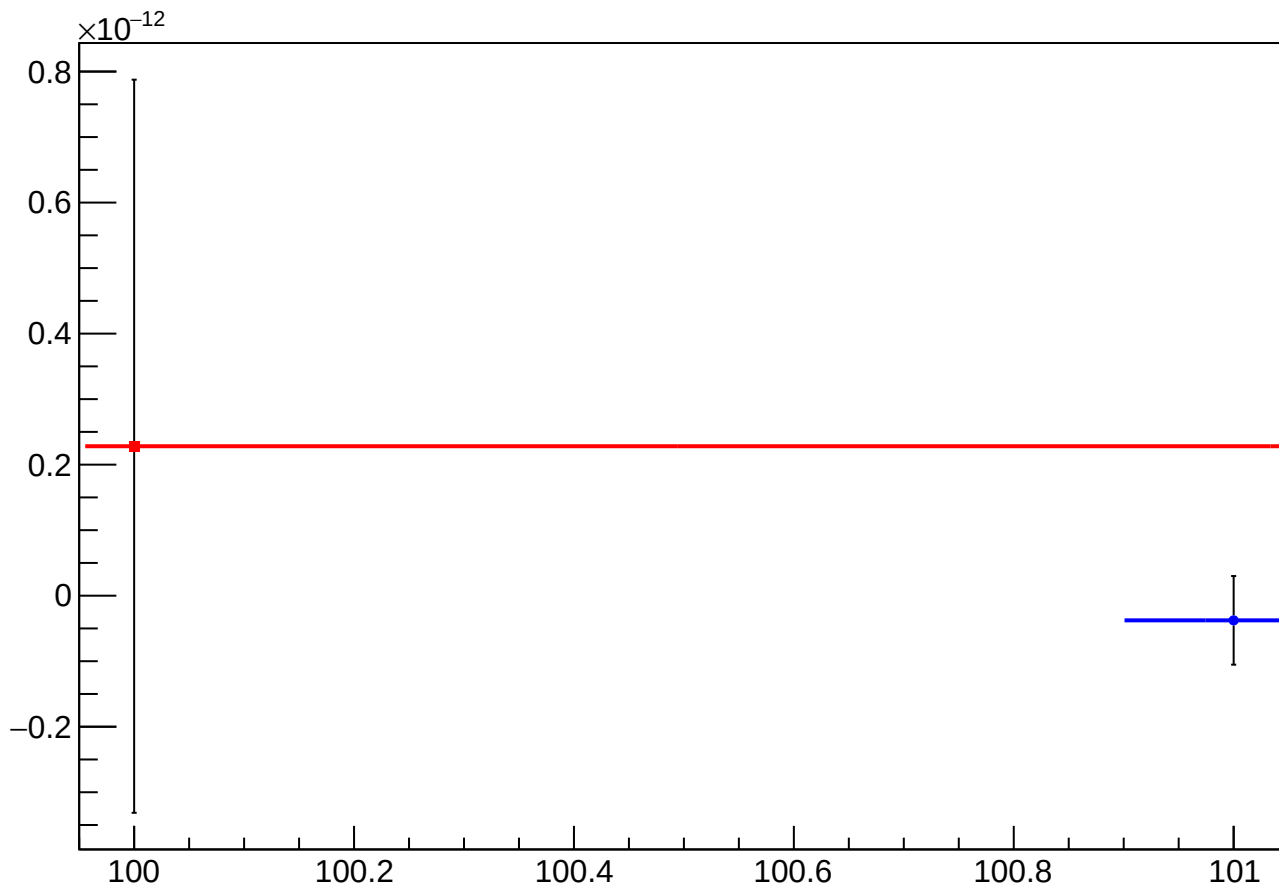
Right: 117.456 $\pm$ 0.109  $\chi^2$ /NDF: 58023.4/1

In: 114.344 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.456 $\pm$ 0.109  $\chi^2$ /NDF: 58023.4/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

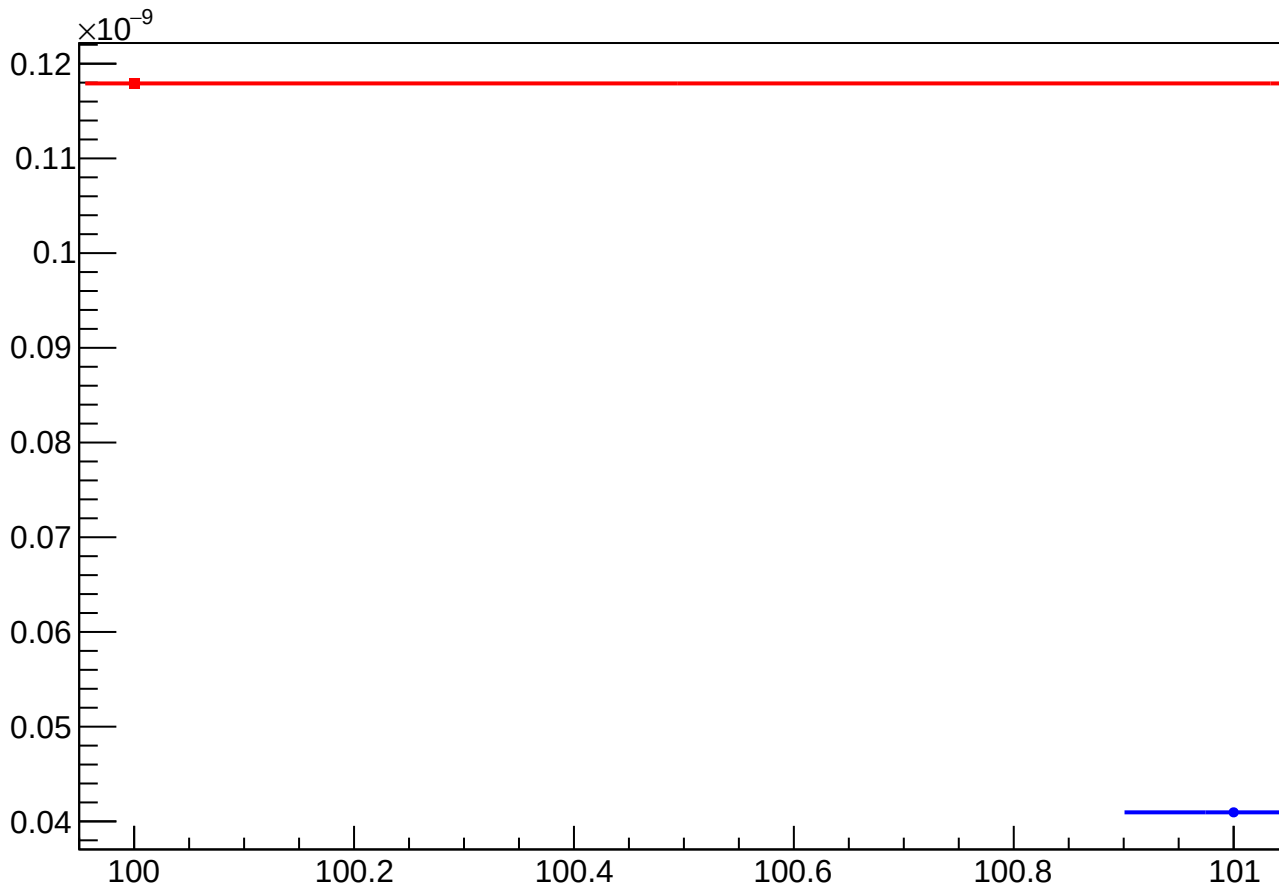
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

asym\_us\_dd\_atlr\_dd\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37301.0/1

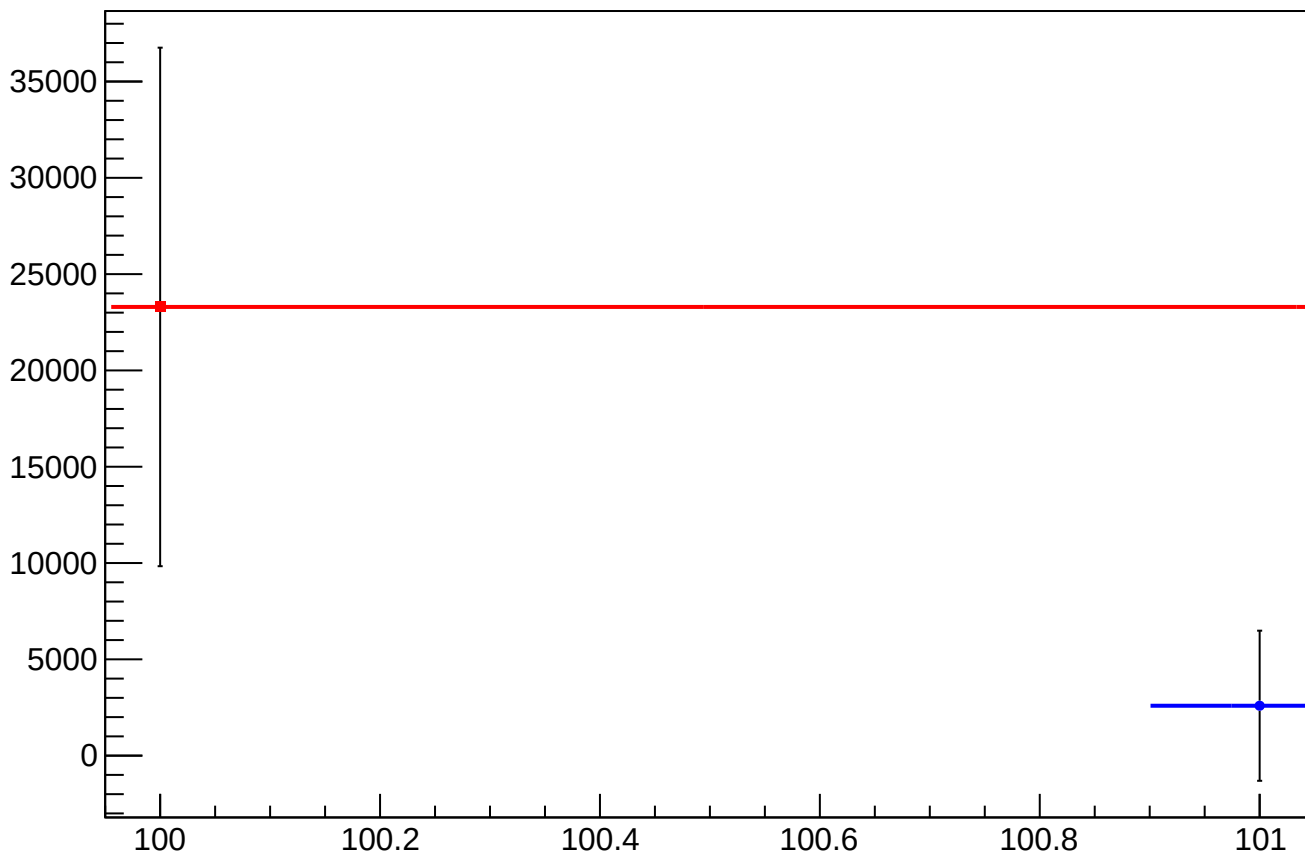
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37301.0/1



reg\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 2590.700+/-3897.044  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23296.586+/-13461.062  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

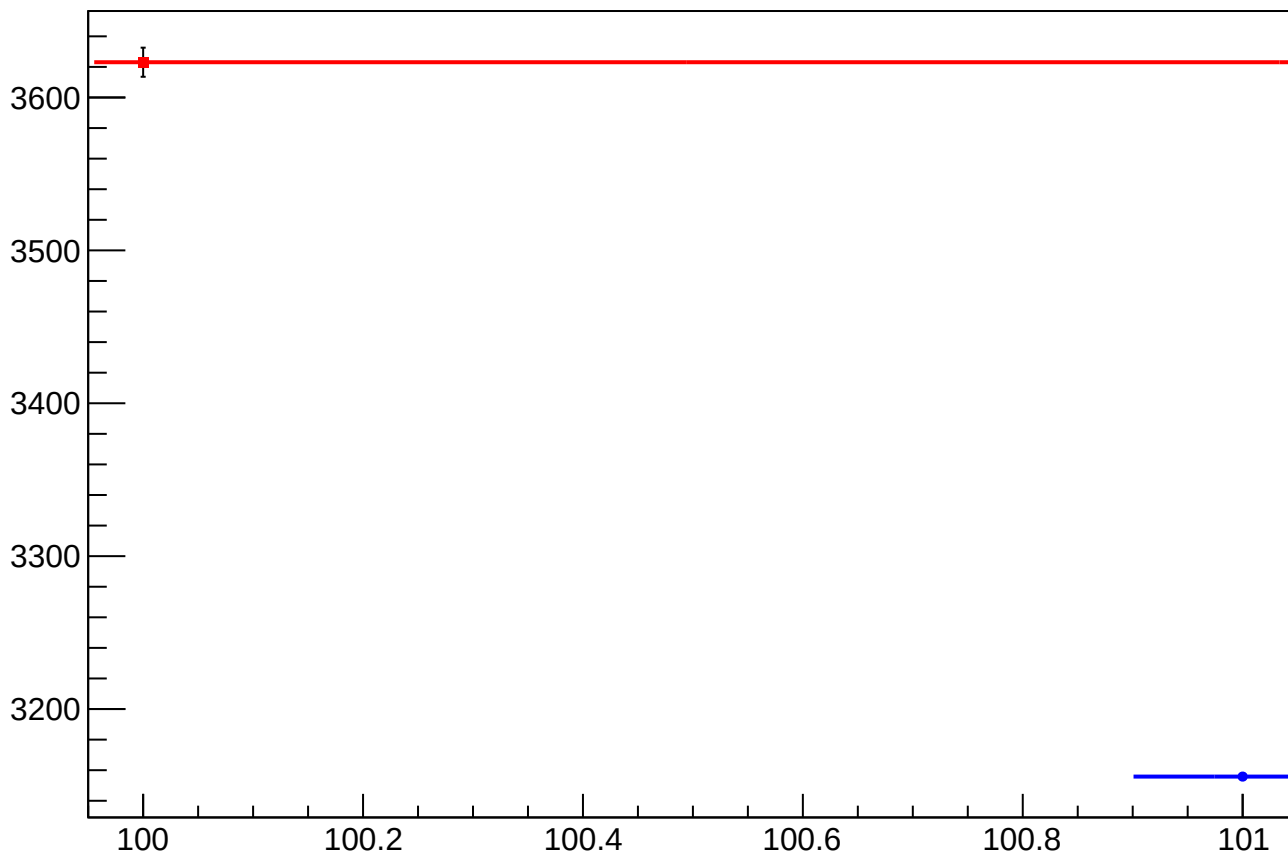
Right: 4191.921+/-3743.330  $\chi^2/\text{NDF}$ : 2.2/1

In: 2590.700+/-3897.044  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4191.921+/-3743.330  $\chi^2/\text{NDF}$ : 2.2/1

reg\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3155.823+/-2.756  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3623.066+/-9.518  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

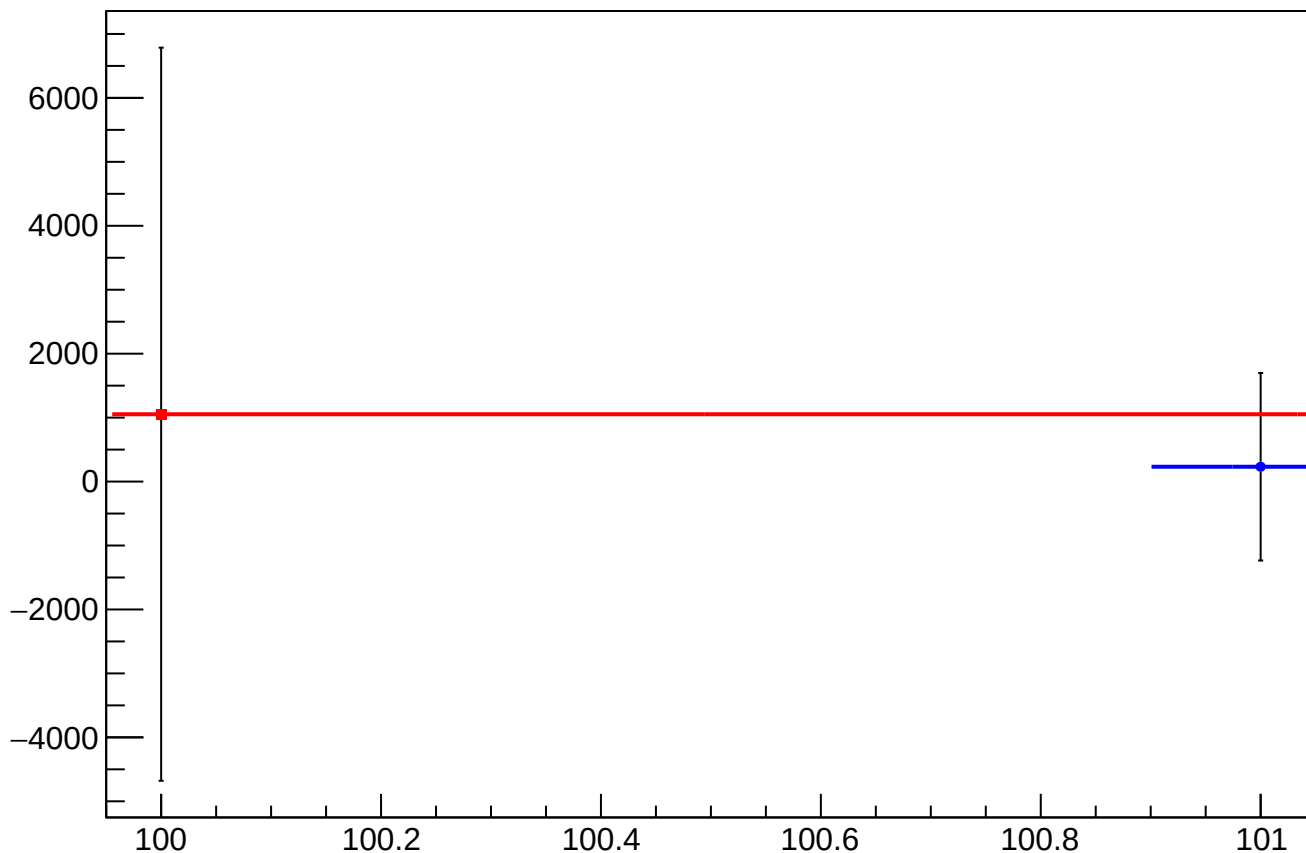
Right: 3191.956+/-2.647  $\chi^2/\text{NDF}$ : 2223.3/1

In: 3155.823+/-2.756  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3191.956+/-2.647  $\chi^2/\text{NDF}$ : 2223.3/1

asym\_us\_dd\_atlr\_dd\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 231.869 $\pm$ 1466.635  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1053.042 $\pm$ 5732.427  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

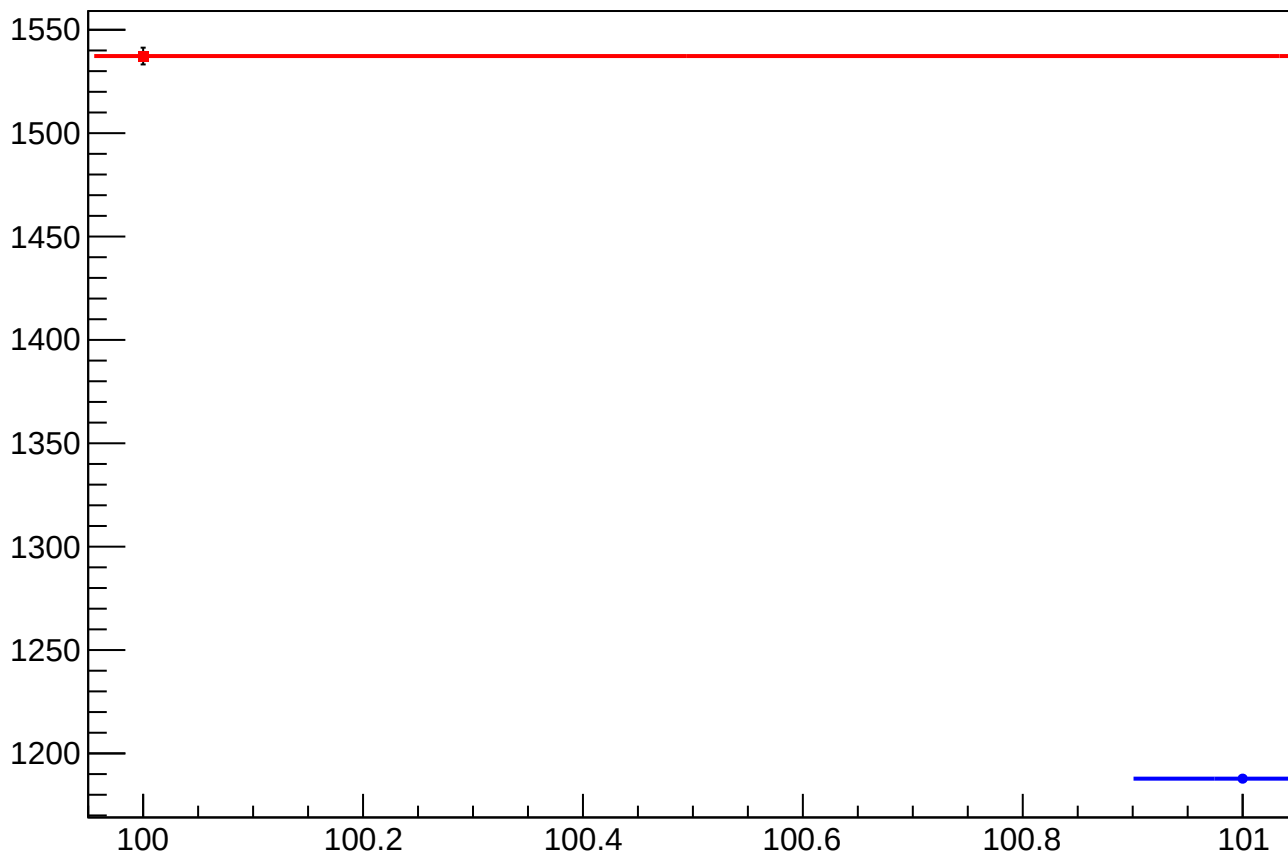
Right: 282.320 $\pm$ 1420.868  $\chi^2/\text{NDF}$ : 0.0/1

In: 231.869 $\pm$ 1466.635  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 282.320 $\pm$ 1420.868  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_atlr\_dd\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1187.791 $\pm$ 1.037  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1537.298 $\pm$ 4.053  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

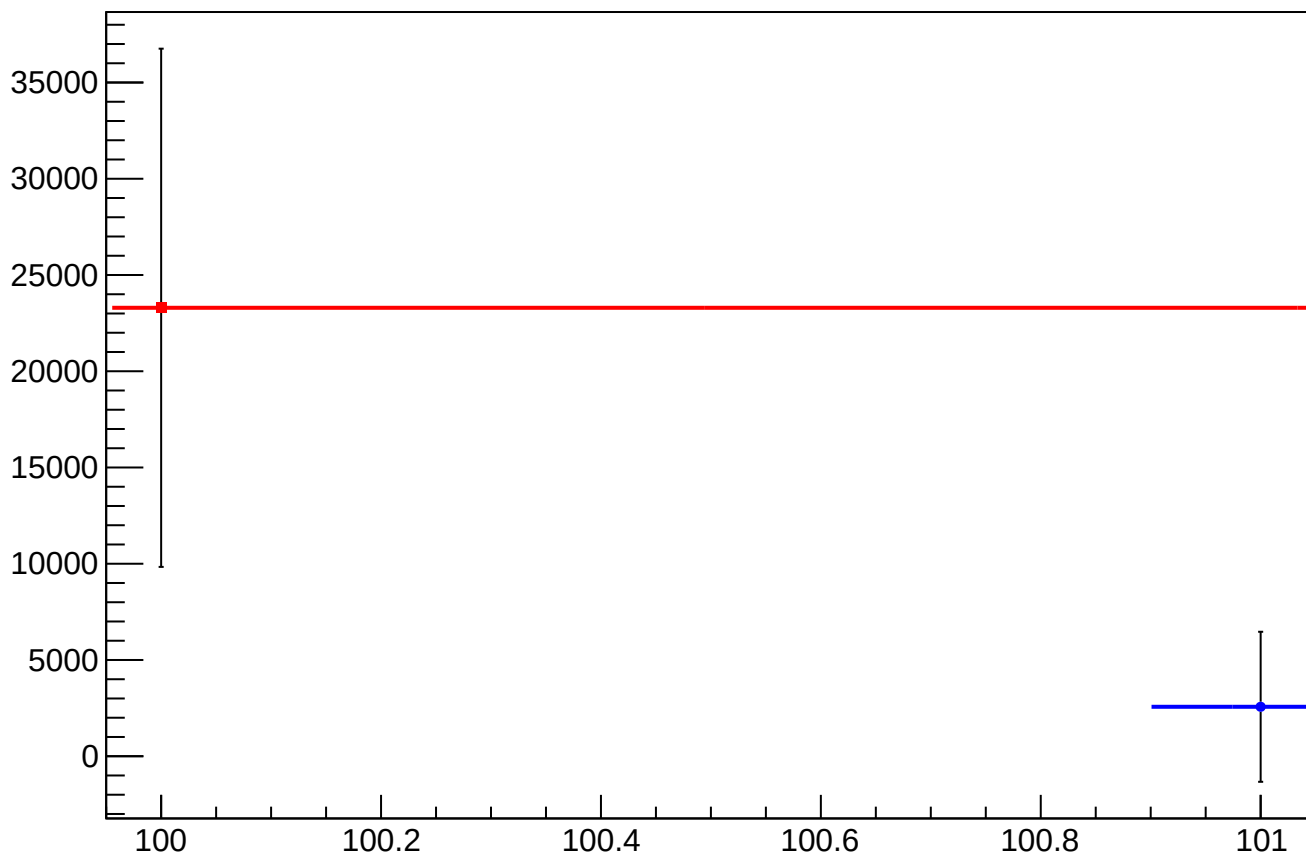
Right: 1209.264 $\pm$ 1.005  $\chi^2$ /NDF: 6977.9/1

In: 1187.791 $\pm$ 1.037  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1209.264 $\pm$ 1.005  $\chi^2$ /NDF: 6977.9/1

cor\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 2568.727+/-3897.063  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23296.638+/-13461.062  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

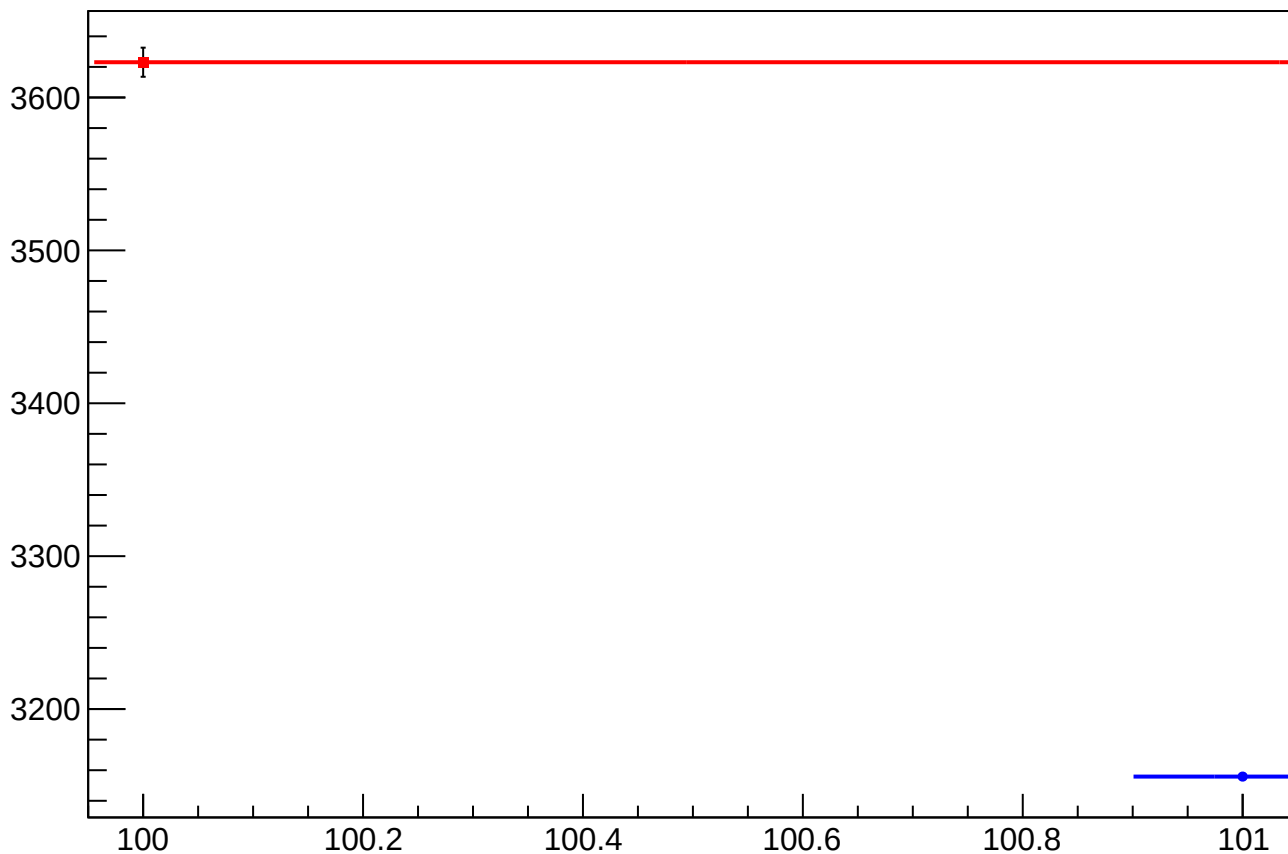
Right: 4171.666+/-3743.347  $\chi^2/\text{NDF}$ : 2.2/1

In: 2568.727+/-3897.063  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4171.666+/-3743.347  $\chi^2/\text{NDF}$ : 2.2/1

cor\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3155.834+/-2.756  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3623.066+/-9.518  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

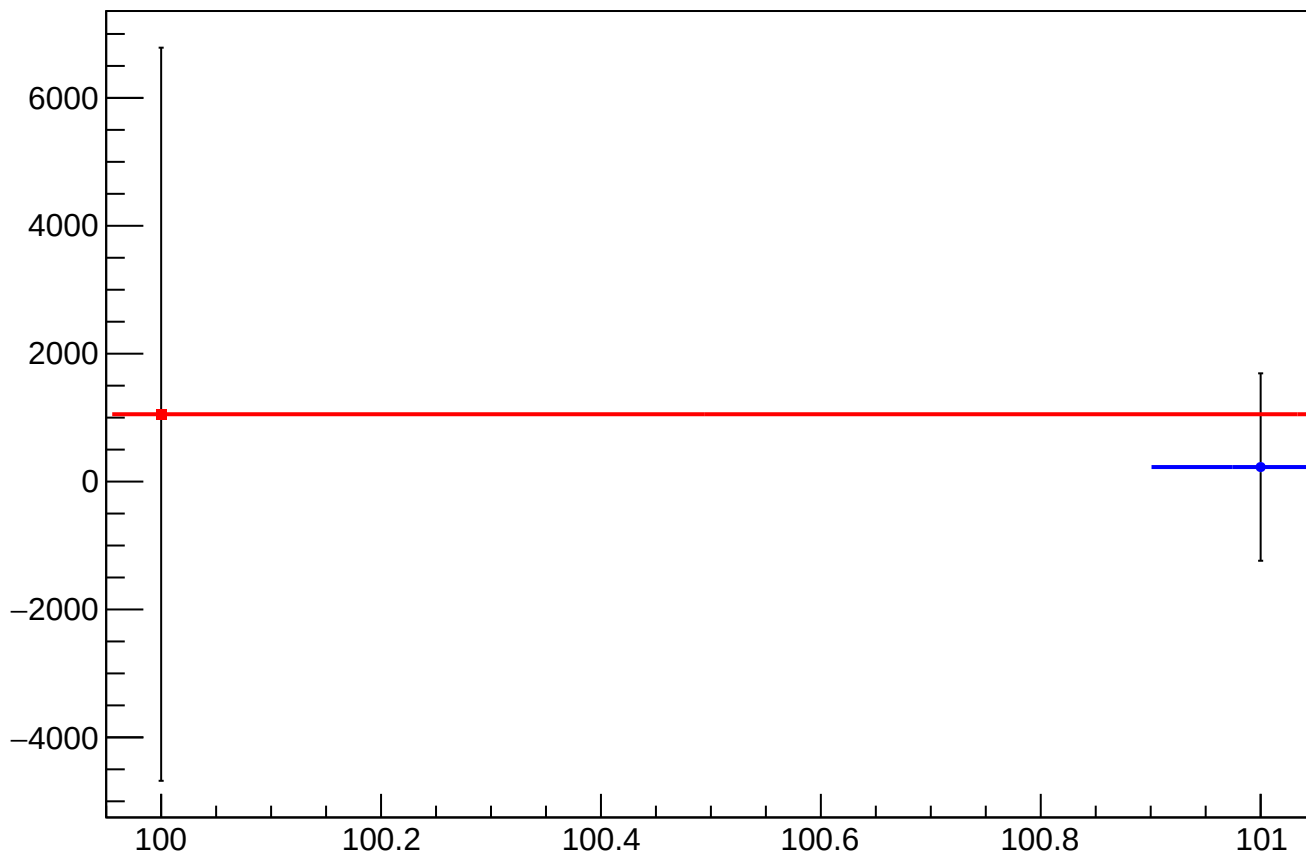
Right: 3191.967+/-2.647  $\chi^2/\text{NDF}$ : 2223.2/1

In: 3155.834+/-2.756  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3191.967+/-2.647  $\chi^2/\text{NDF}$ : 2223.2/1

asym\_us\_dd\_atlr\_dd\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 227.210 $\pm$ 1465.485  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1053.092 $\pm$ 5732.424  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

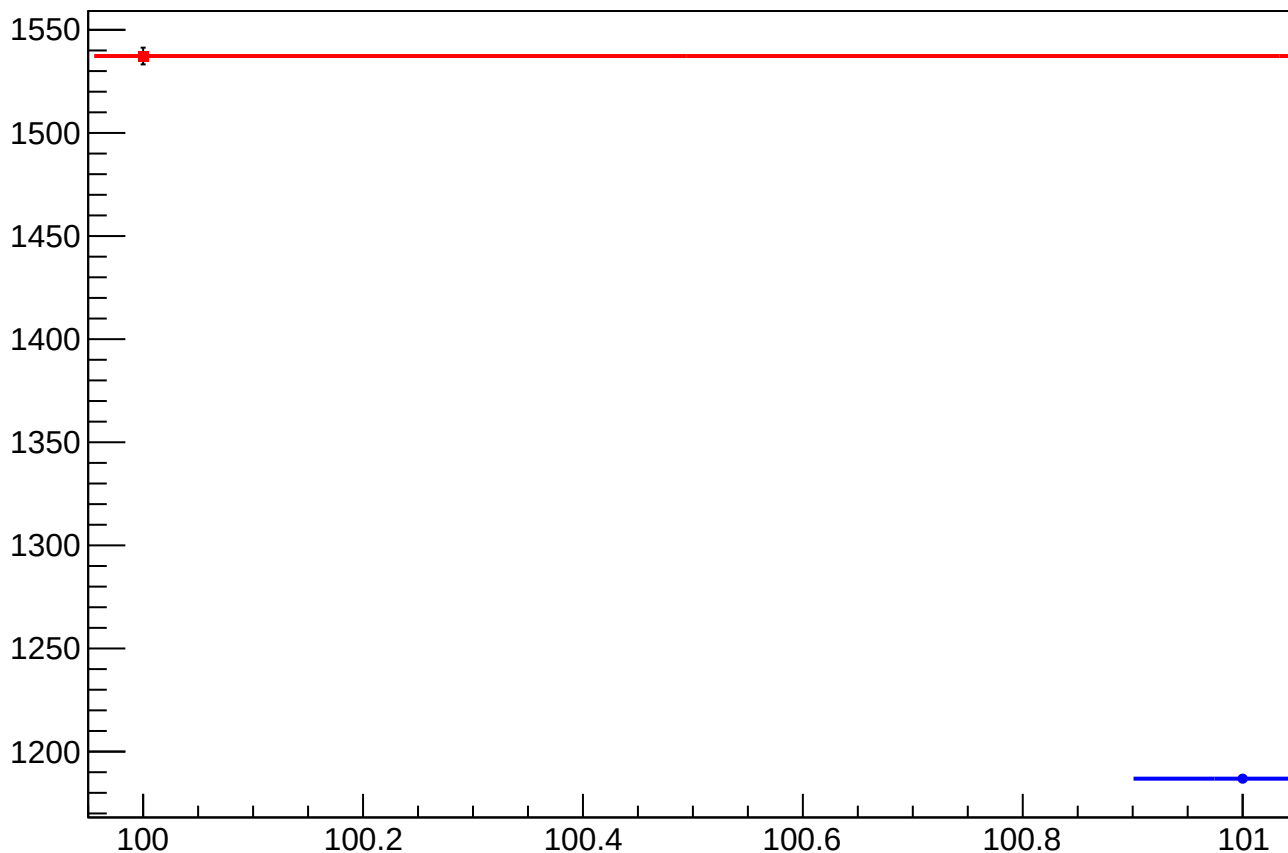
Right: 277.875 $\pm$ 1419.822  $\chi^2/\text{NDF}$ : 0.0/1

In: 227.210 $\pm$ 1465.485  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 277.875 $\pm$ 1419.822  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_atlr\_dd\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1186.874 $\pm$ 1.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1537.297 $\pm$ 4.053  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1208.371 $\pm$ 1.004  $\chi^2$ /NDF: 7015.3/1

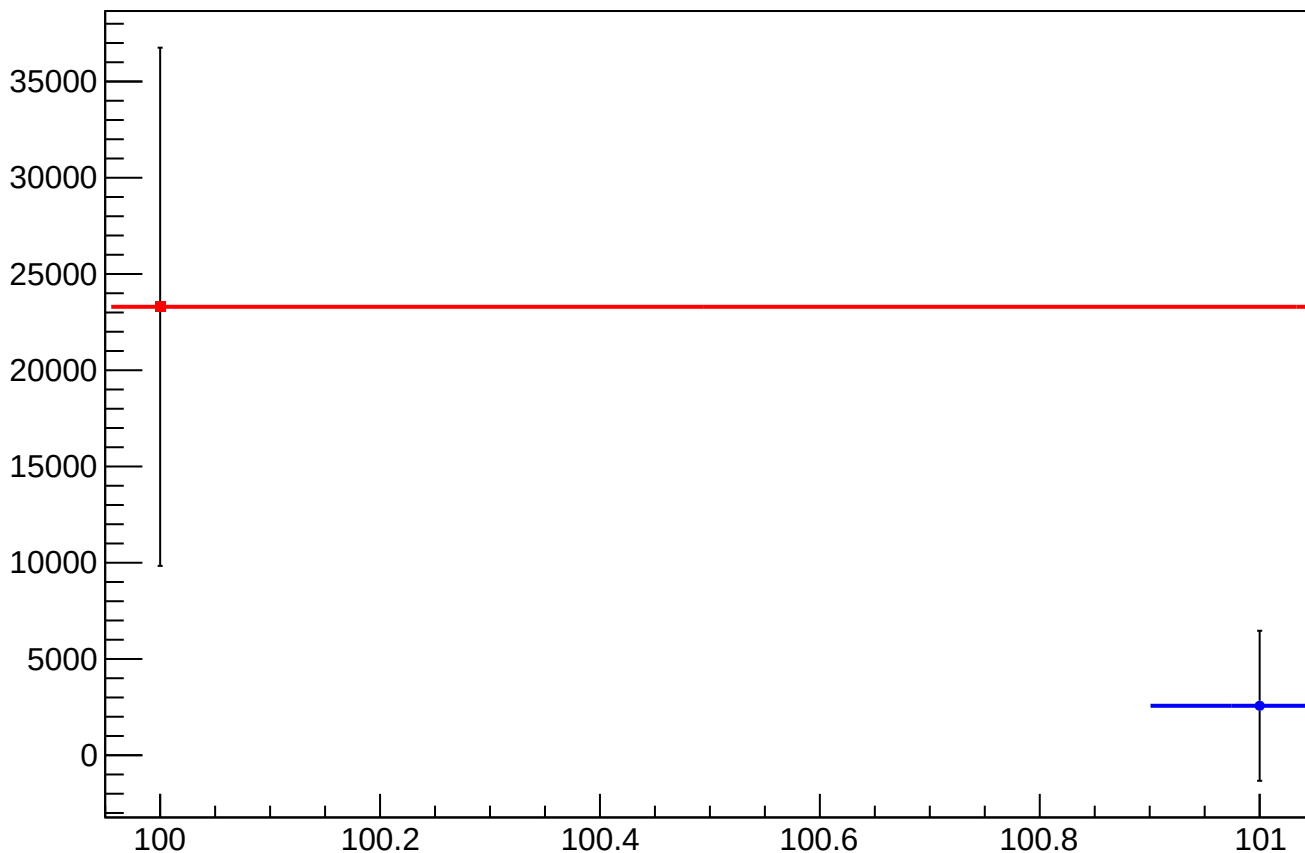
In: 1186.874 $\pm$ 1.036  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1208.371 $\pm$ 1.004  $\chi^2$ /NDF: 7015.3/1



eigen\_cor\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 2568.727+/-3897.063  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23296.638+/-13461.062  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

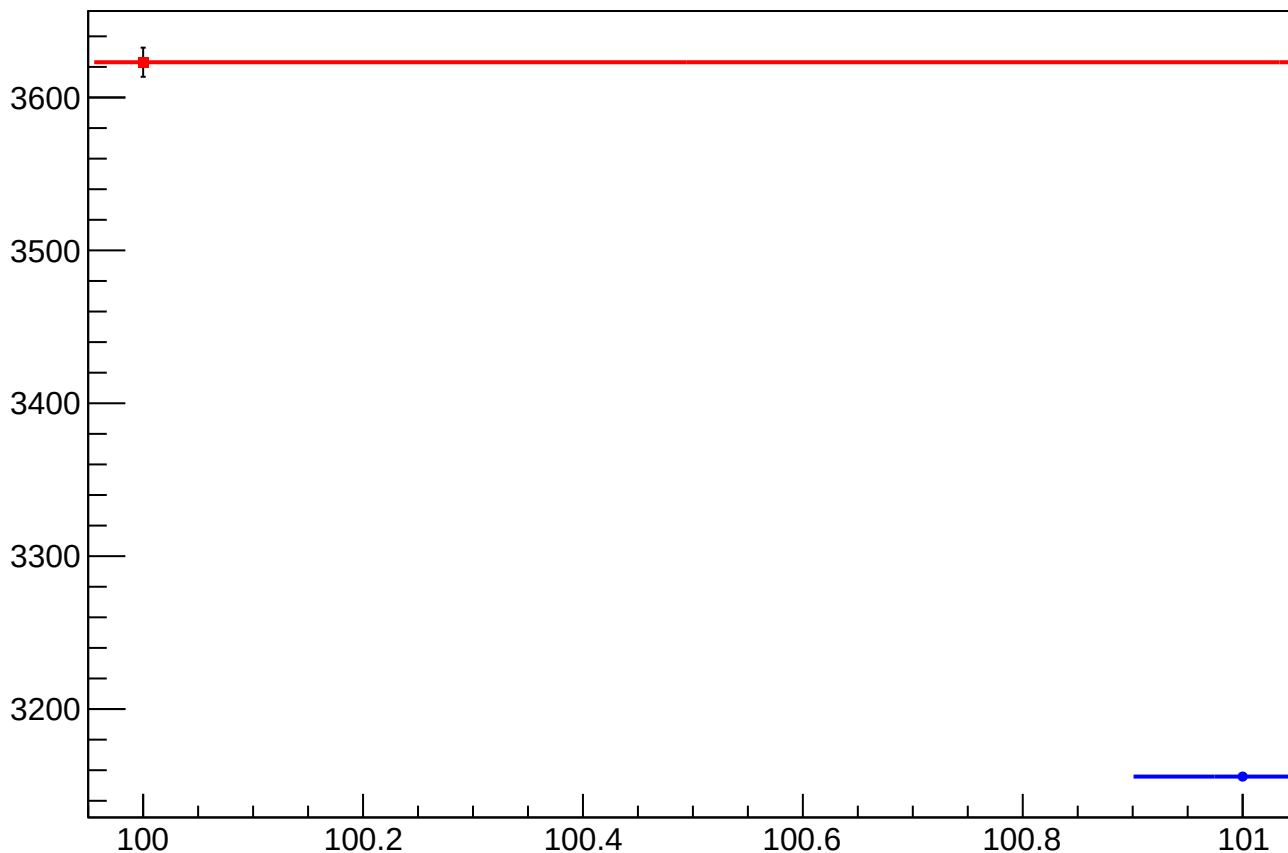
Right: 4171.666+/-3743.347  $\chi^2/\text{NDF}$ : 2.2/1

In: 2568.727+/-3897.063  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4171.666+/-3743.347  $\chi^2/\text{NDF}$ : 2.2/1

eigen\_cor\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3155.834 $\pm$ 2.756  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3623.066 $\pm$ 9.518  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

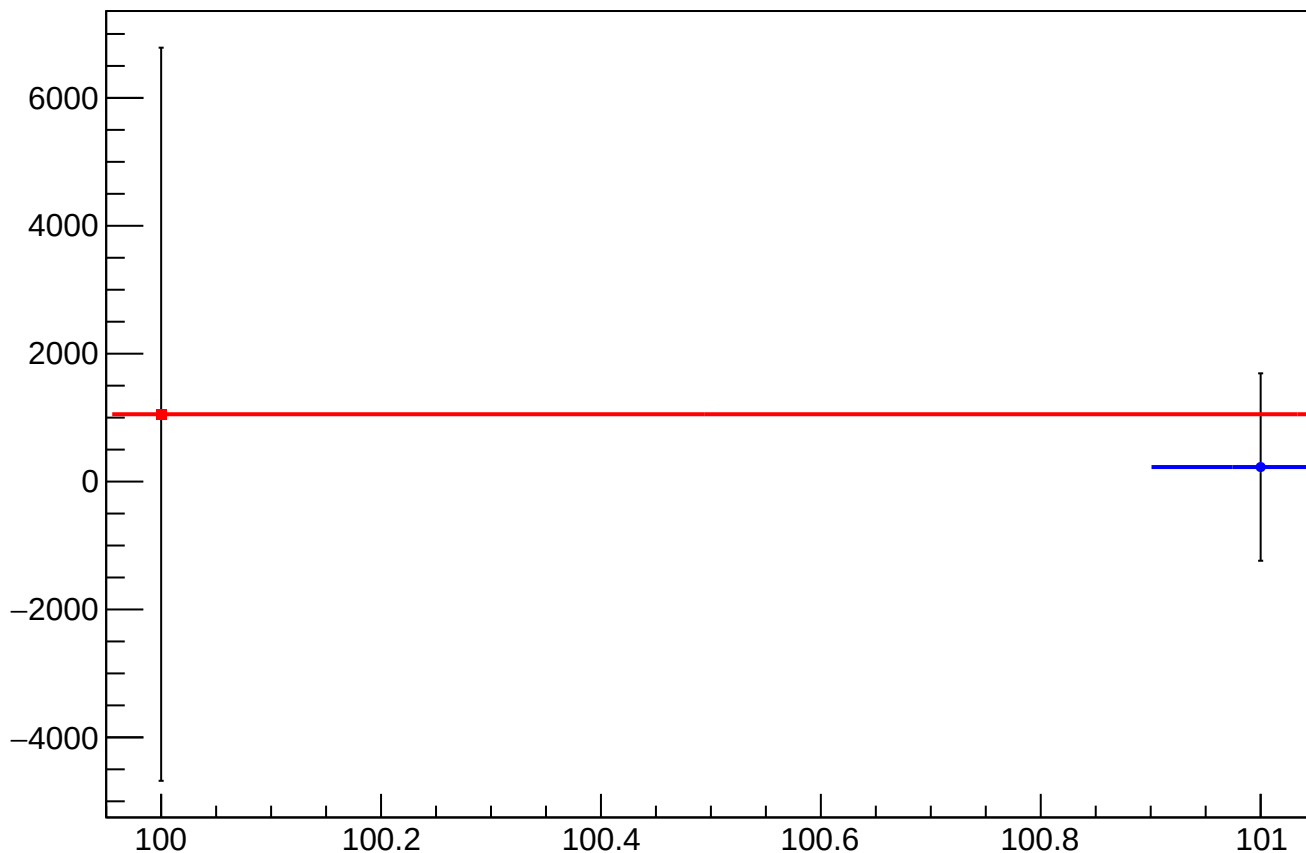
Right: 3191.967 $\pm$ 2.647  $\chi^2$ /NDF: 2223.2/1

In: 3155.834 $\pm$ 2.756  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3191.967 $\pm$ 2.647  $\chi^2$ /NDF: 2223.2/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 227.210+/-1465.485  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1053.092+/-5732.424  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

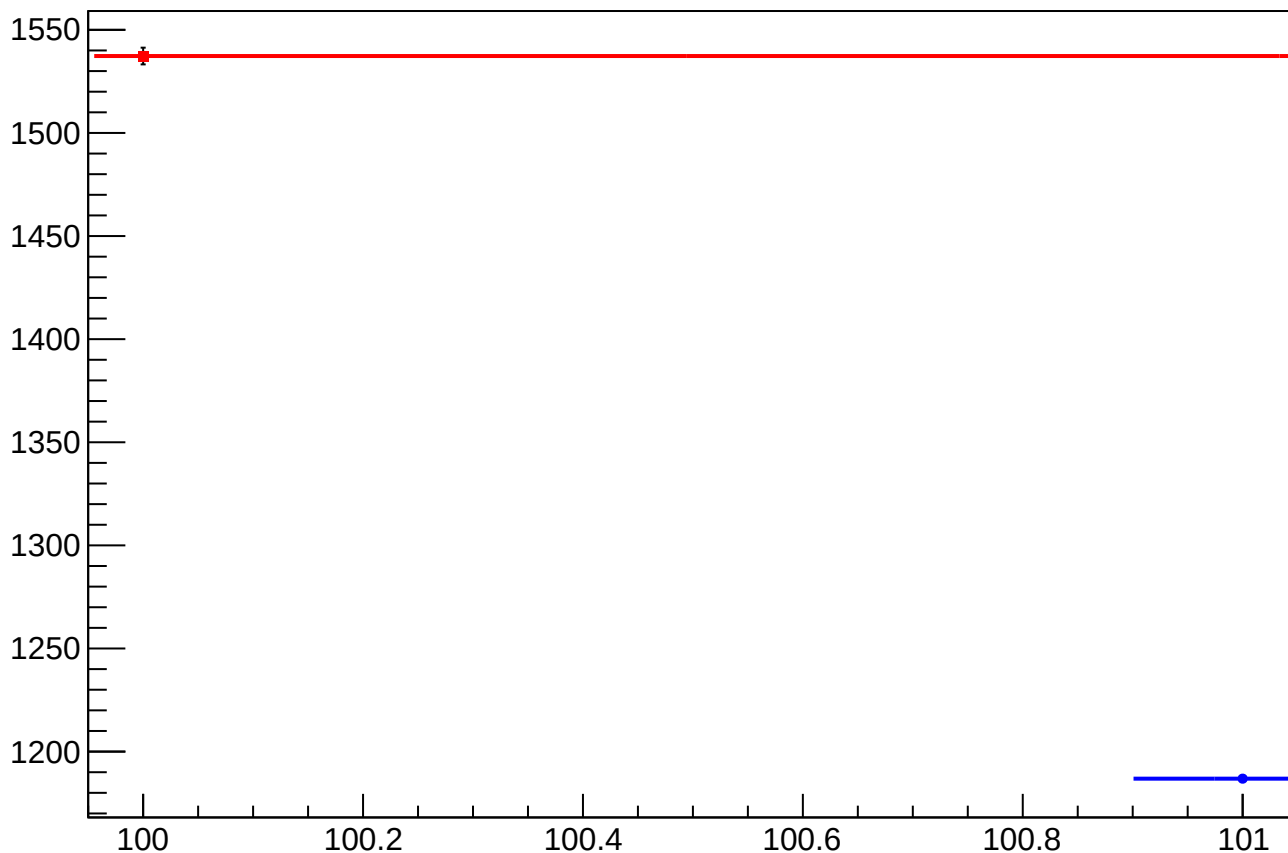
Right: 277.875+/-1419.822  $\chi^2/\text{NDF}$ : 0.0/1

In: 227.210+/-1465.485  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 277.875+/-1419.822  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1186.874 $\pm$ 1.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1537.297 $\pm$ 4.053  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

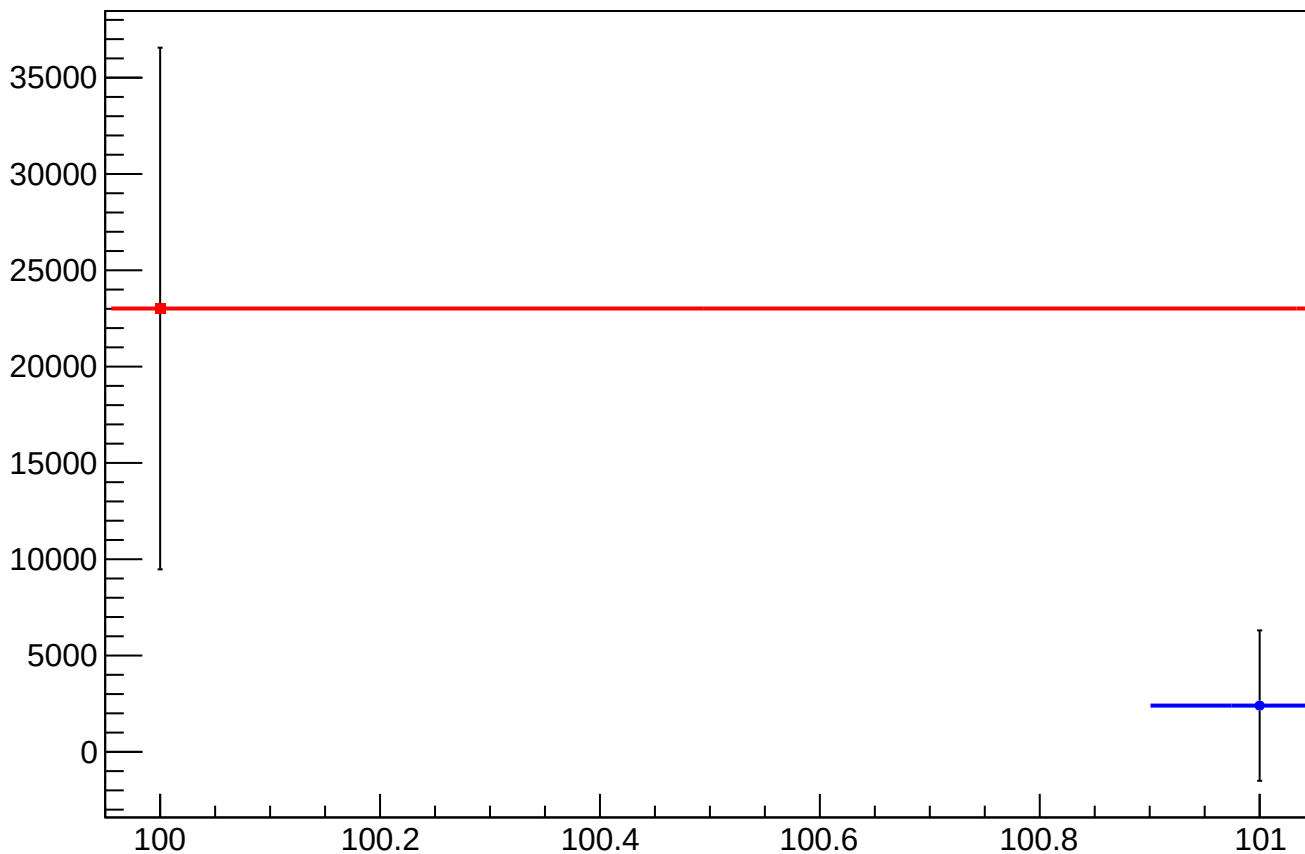
Right: 1208.371 $\pm$ 1.004  $\chi^2$ /NDF: 7015.3/1

In: 1186.874 $\pm$ 1.036  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1208.371 $\pm$ 1.004  $\chi^2$ /NDF: 7015.3/1

dit\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 2401.751+/-3904.105  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23016.171+/-13541.387  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

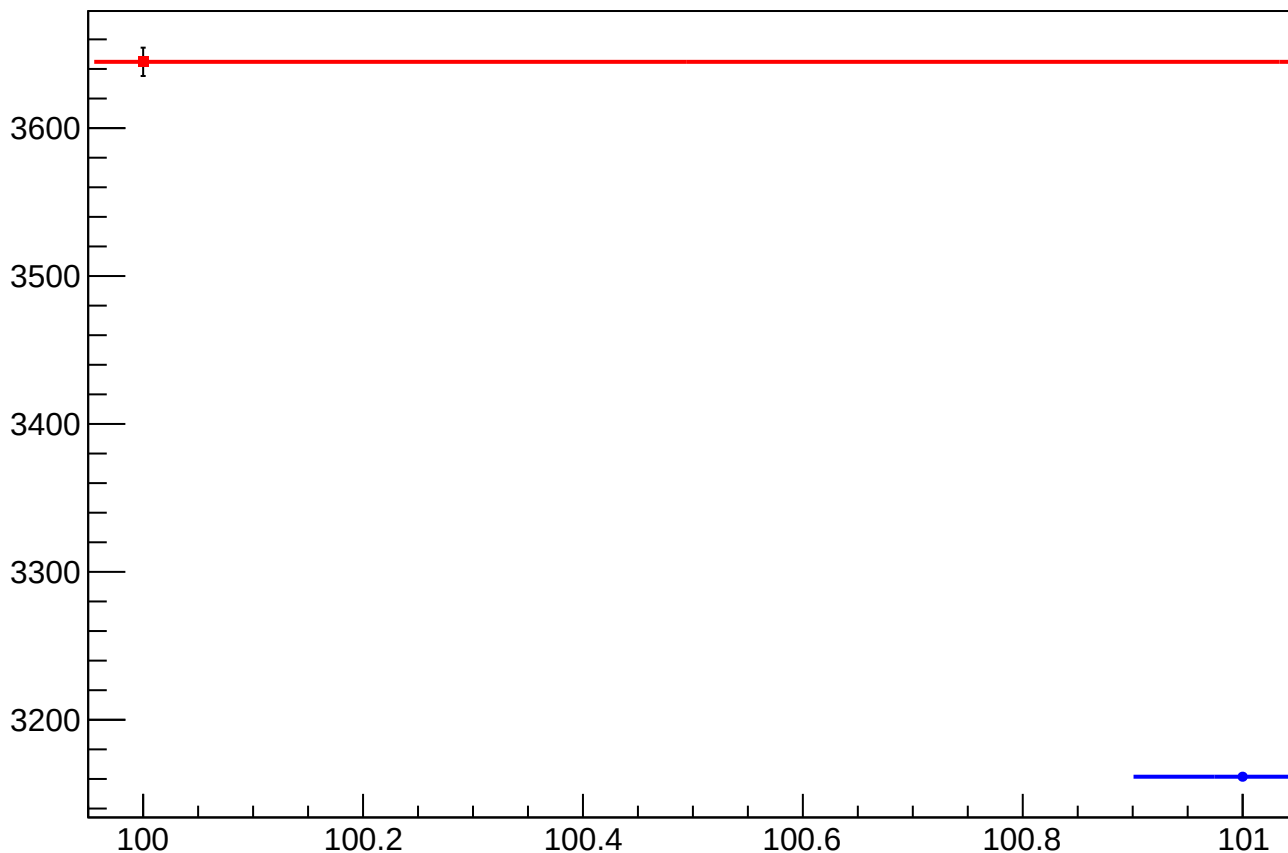
Right: 3983.765+/-3751.308  $\chi^2/\text{NDF}$ : 2.1/1

In: 2401.751+/-3904.105  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3983.765+/-3751.308  $\chi^2/\text{NDF}$ : 2.1/1

dit\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3161.517 $\pm$ 2.761  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3644.810 $\pm$ 9.575  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

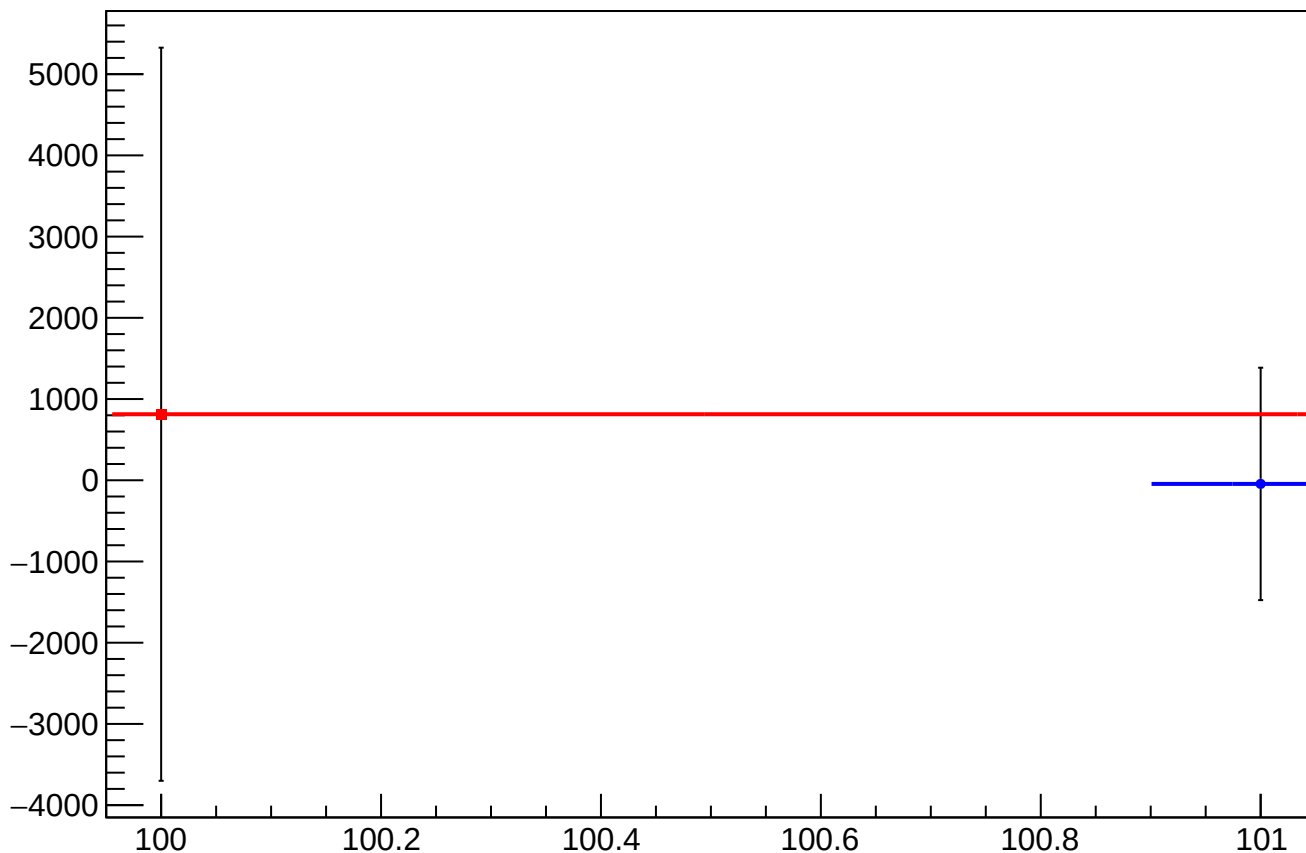
Right: 3198.606 $\pm$ 2.653  $\chi^2$ /NDF: 2352.1/1

In: 3161.517 $\pm$ 2.761  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 3198.606 $\pm$ 2.653  $\chi^2$ /NDF: 2352.1/1

asym\_us\_dd\_atlr\_dd\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -44.892+/-1430.687  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 812.970+/-4513.203  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

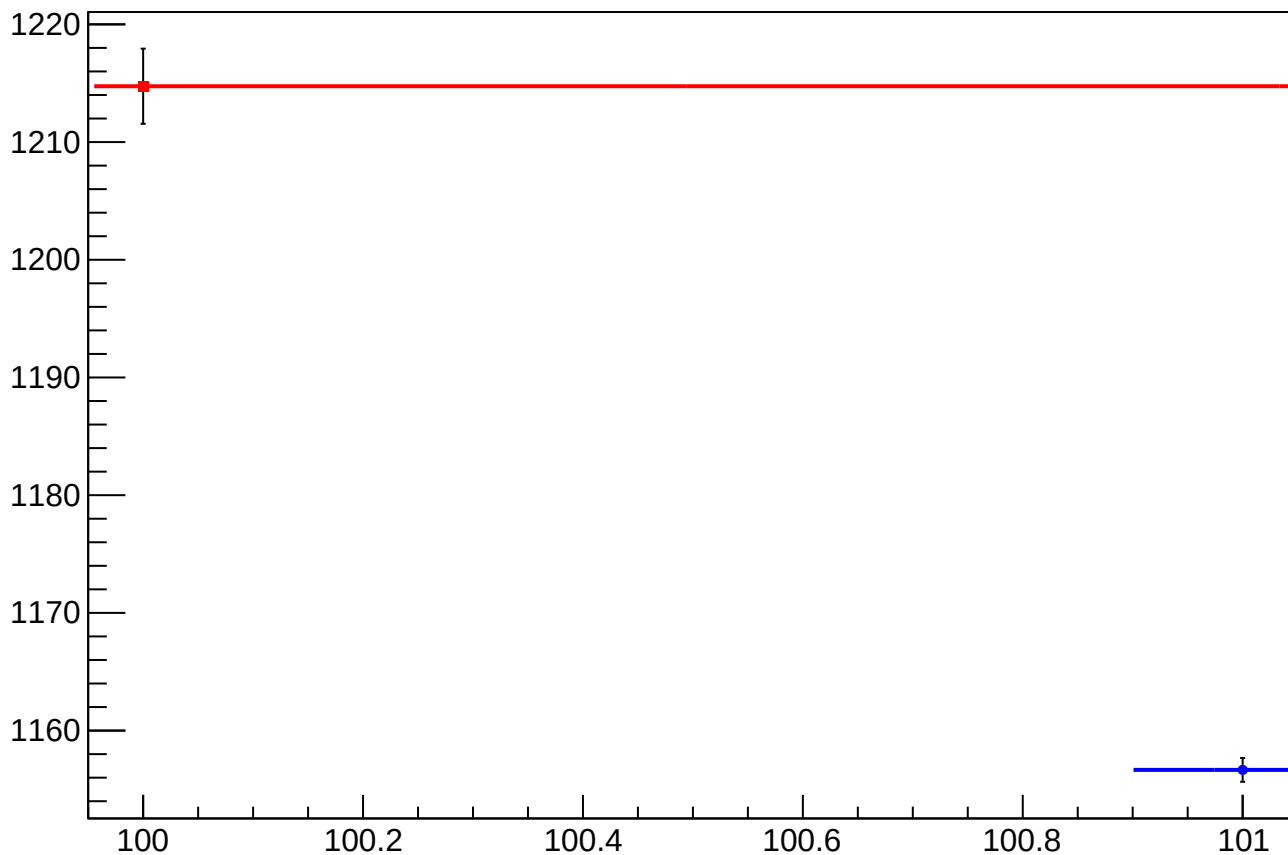
Right: 33.442+/-1363.804  $\chi^2/\text{NDF}$ : 0.0/1

In: -44.892+/-1430.687  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.442+/-1363.804  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_atlr\_dd\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1156.661 $\pm$ 1.012  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1214.744 $\pm$ 3.191  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1161.965 $\pm$ 0.964  $\chi^2/\text{NDF}$ : 301.0/1

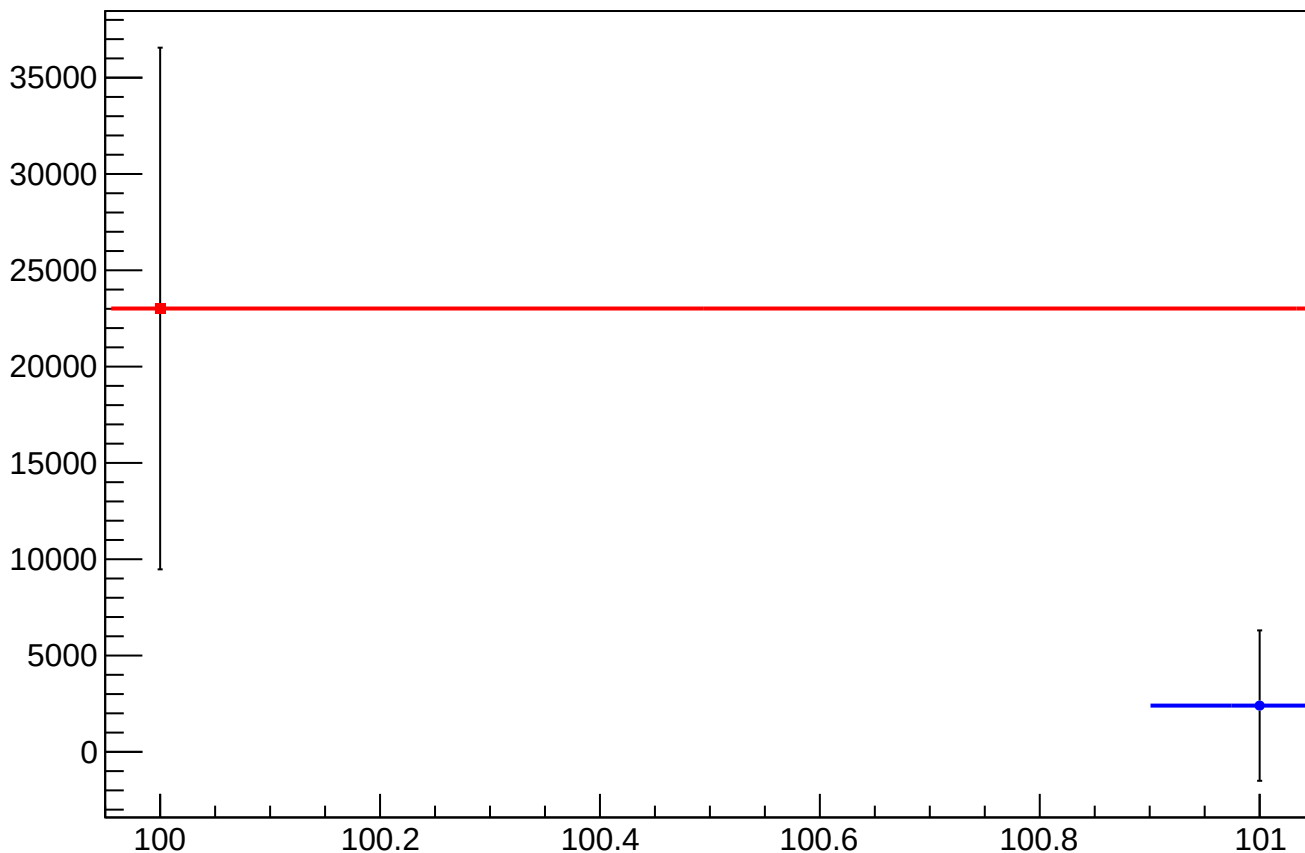
In: 1156.661 $\pm$ 1.012  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1161.965 $\pm$ 0.964  $\chi^2/\text{NDF}$ : 301.0/1



eigen\_dit\_asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 2401.737+/-3904.105  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23016.242+/-13541.389  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

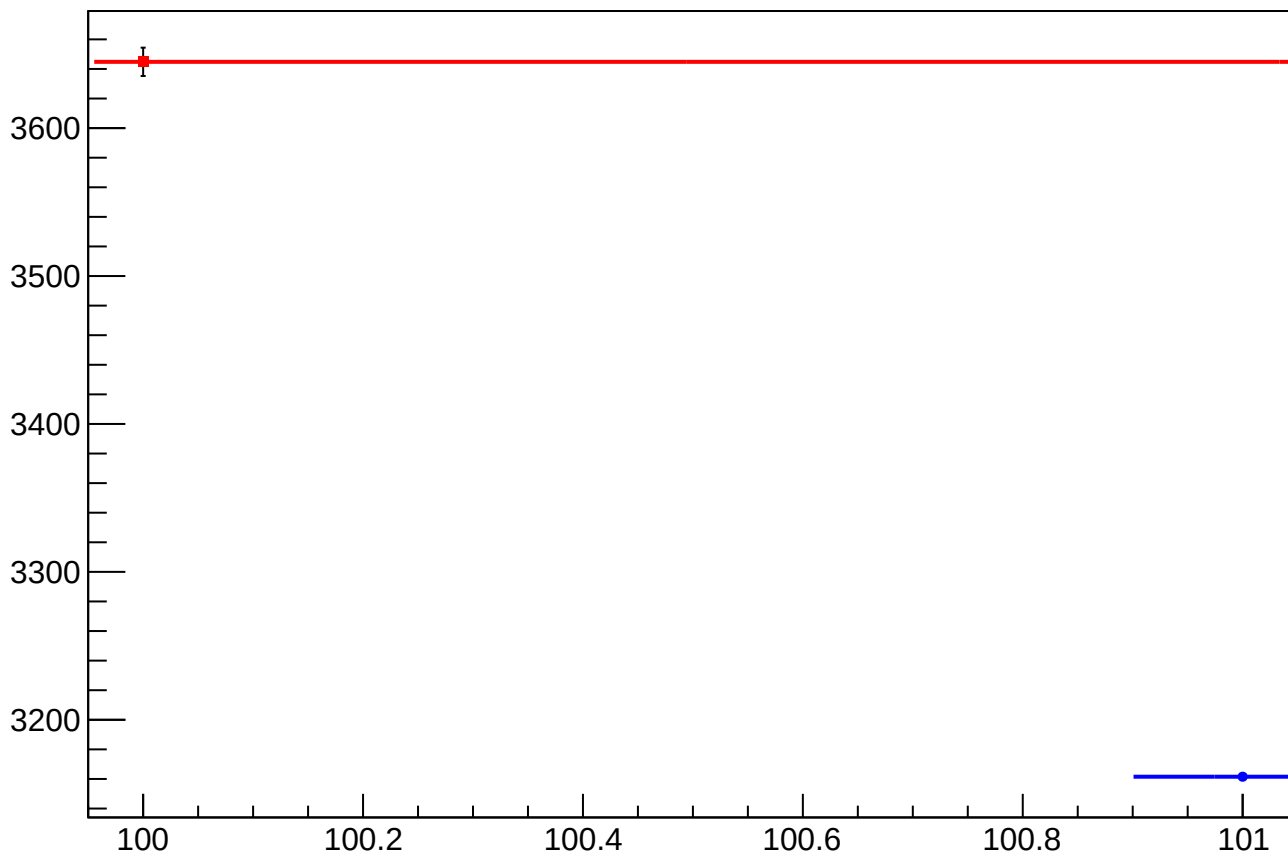
Right: 3983.757+/-3751.309  $\chi^2/\text{NDF}$ : 2.1/1

In: 2401.737+/-3904.105  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3983.757+/-3751.309  $\chi^2/\text{NDF}$ : 2.1/1

eigen\_dit\_asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3161.517+/-2.761  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3644.811+/-9.575  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

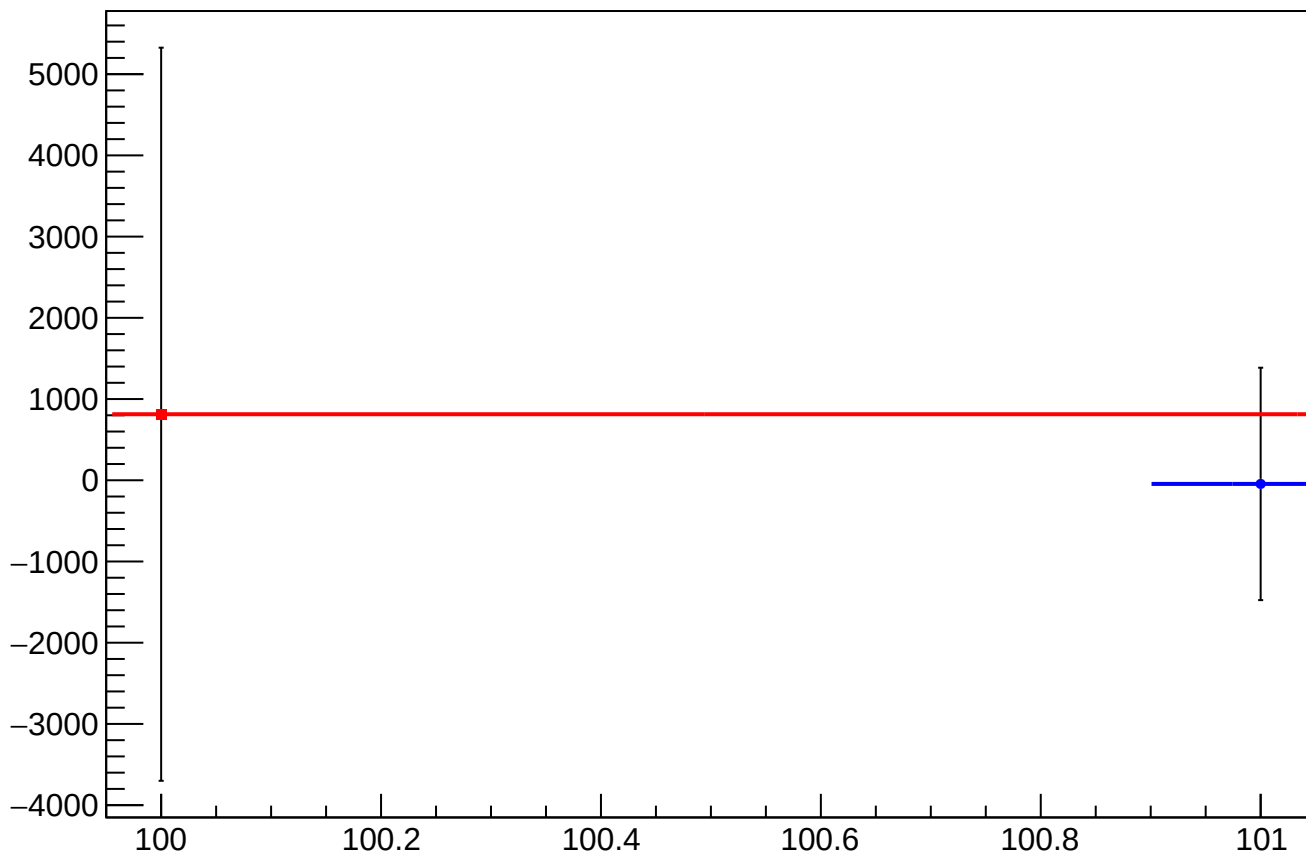
Right: 3198.606+/-2.653  $\chi^2$ /NDF: 2352.1/1

In: 3161.517+/-2.761  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 3198.606+/-2.653  $\chi^2$ /NDF: 2352.1/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -44.907+/-1430.687  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 813.041+/-4513.190  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

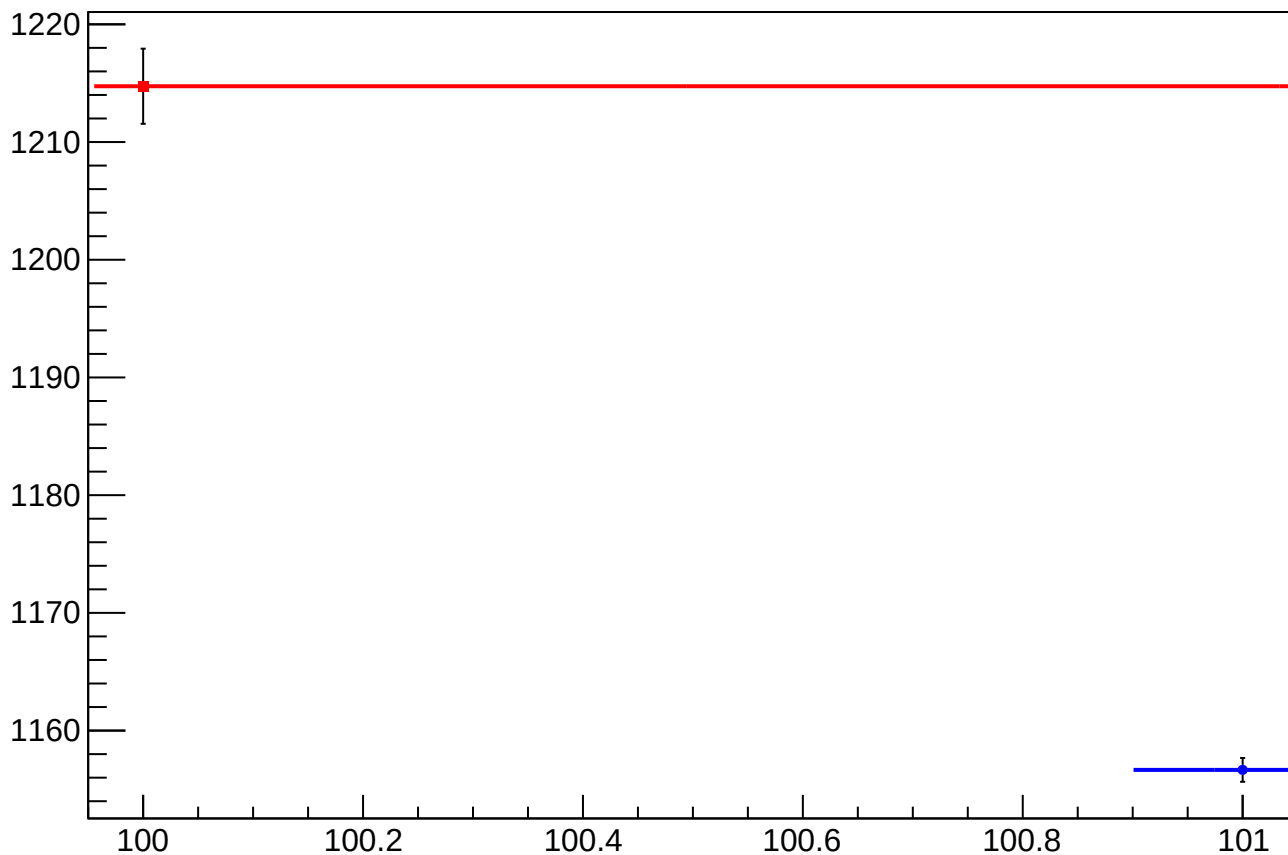
Right: 33.436+/-1363.803  $\chi^2/\text{NDF}$ : 0.0/1

In: -44.907+/-1430.687  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.436+/-1363.803  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1156.661 $\pm$ 1.012  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1214.740 $\pm$ 3.191  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

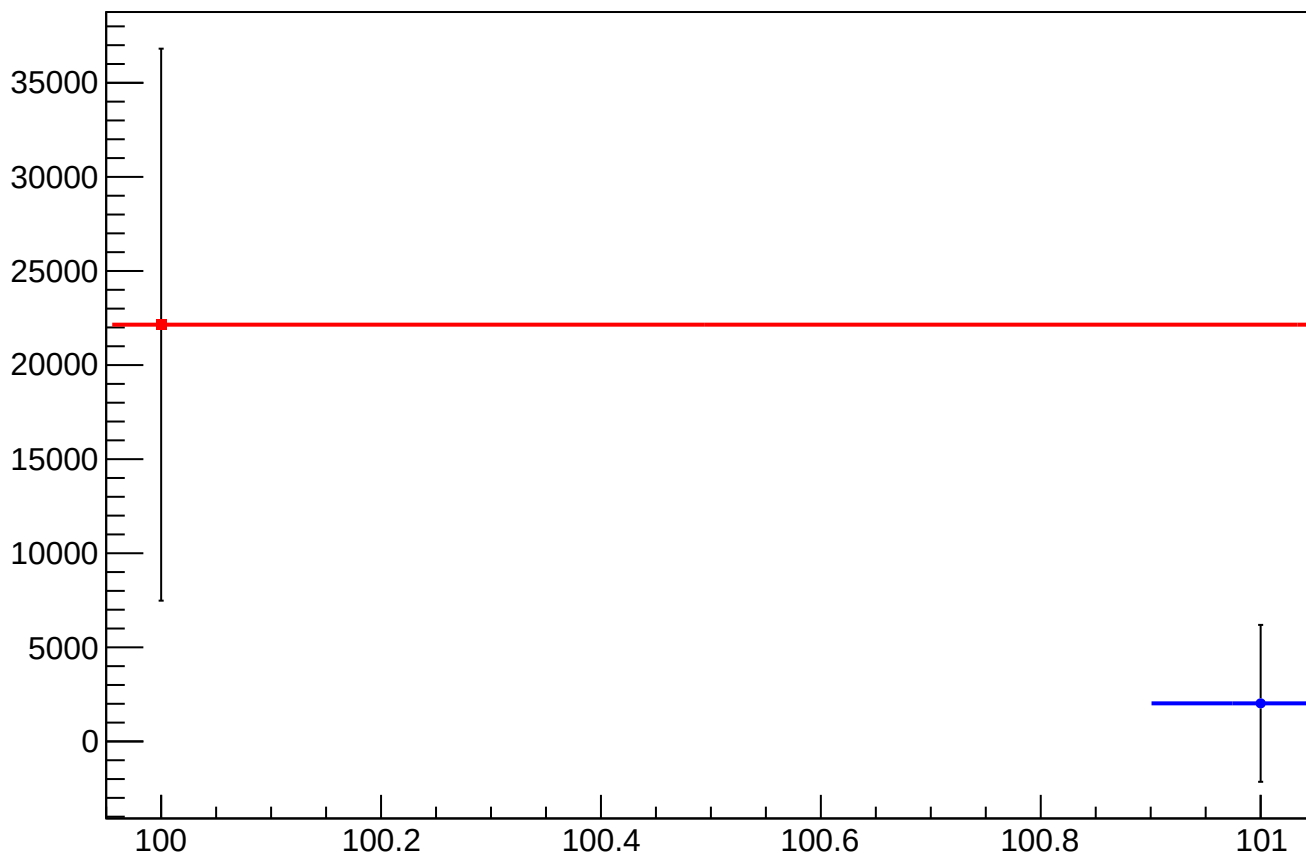
Right: 1161.965 $\pm$ 0.964  $\chi^2$ /NDF: 301.0/1

In: 1156.661 $\pm$ 1.012  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1161.965 $\pm$ 0.964  $\chi^2$ /NDF: 301.0/1

asym\_us\_dd\_atlr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In: 2023.256+/-4168.918  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22147.490+/-14666.929  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

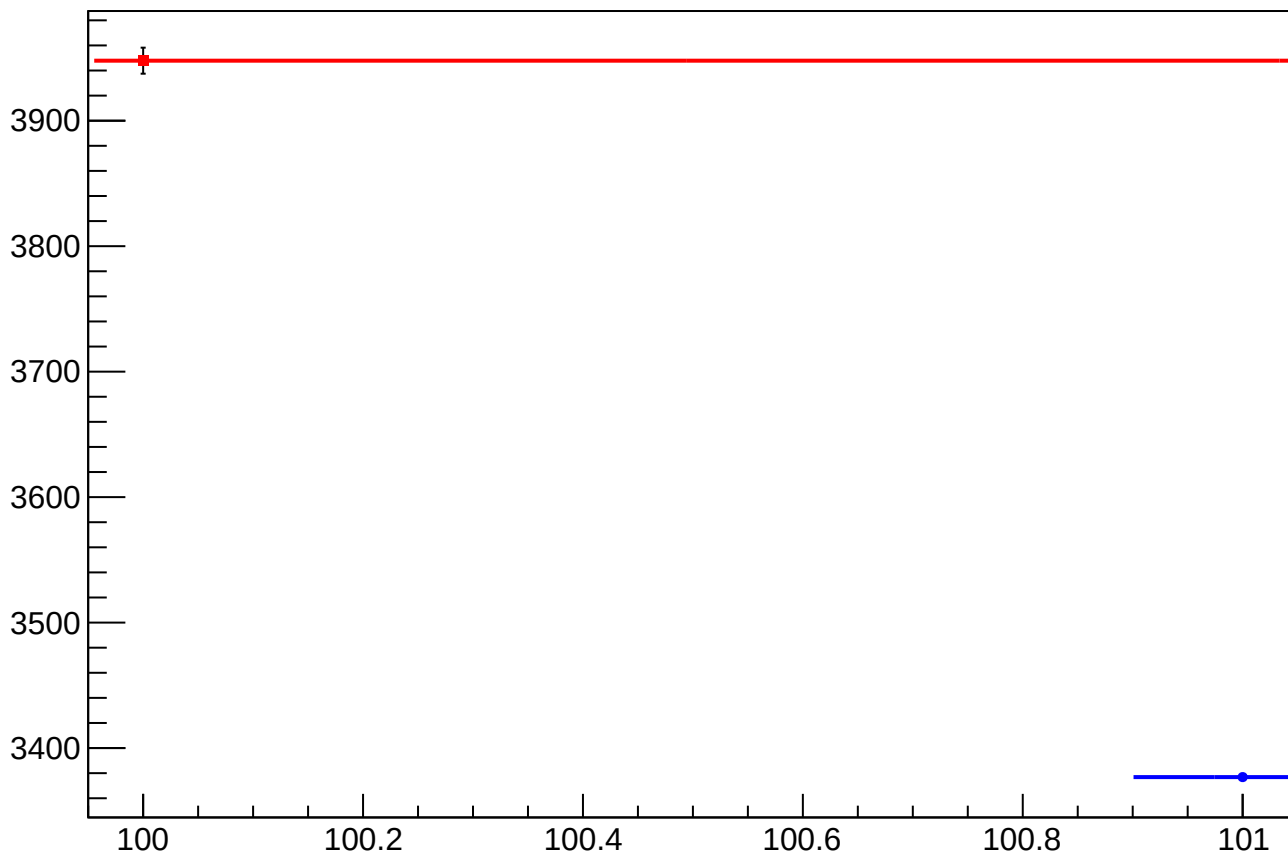
Right: 3527.595+/-4010.073  $\chi^2/\text{NDF}$ : 1.7/1

In: 2023.256+/-4168.918  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3527.595+/-4010.073  $\chi^2/\text{NDF}$ : 1.7/1

asym\_us\_dd\_atlr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 3376.860 $\pm$ 2.948  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3947.841 $\pm$ 10.371  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

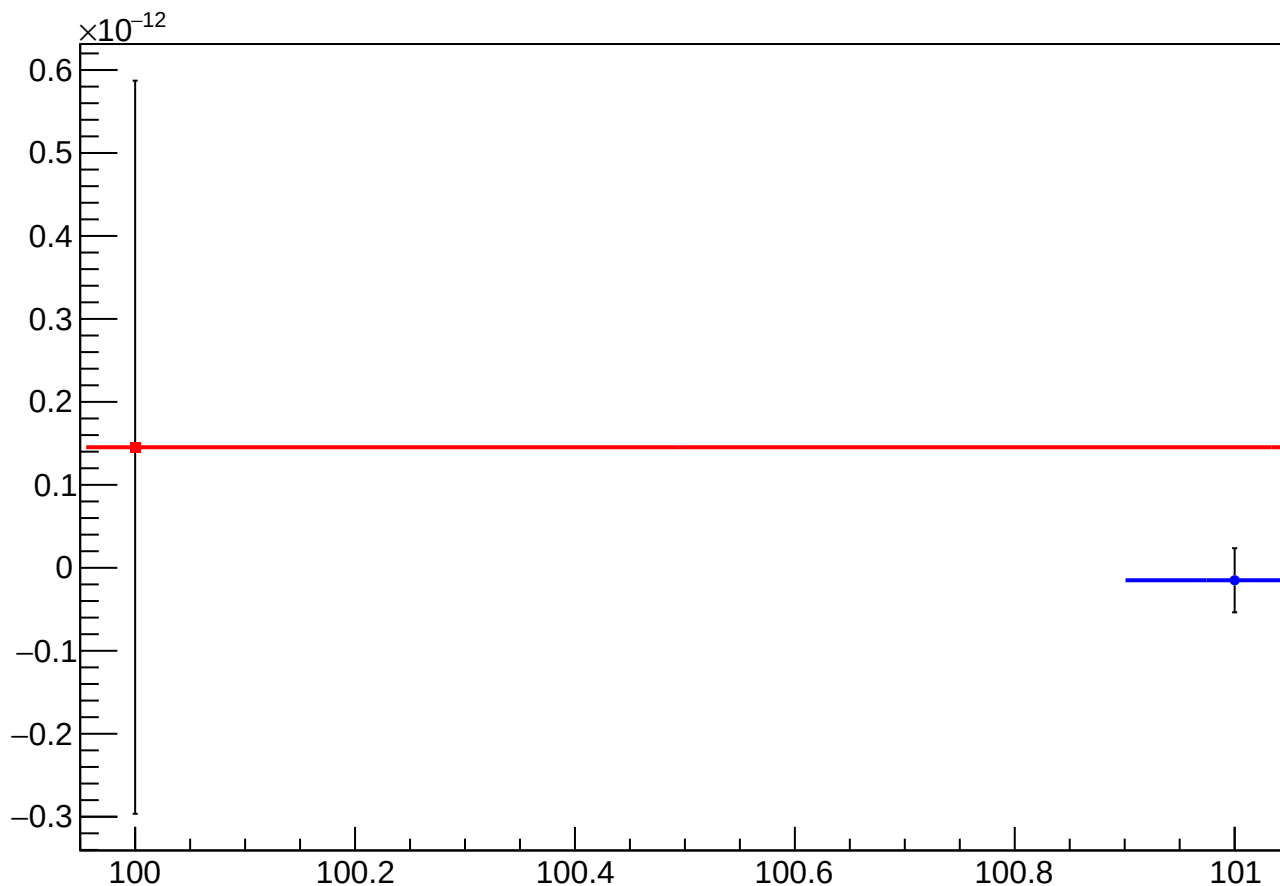
Right: 3419.543 $\pm$ 2.836  $\chi^2$ /NDF: 2804.5/1

In: 3376.860 $\pm$ 2.948  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3419.543 $\pm$ 2.836  $\chi^2$ /NDF: 2804.5/1

asym\_us\_dd\_atlr\_dd\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

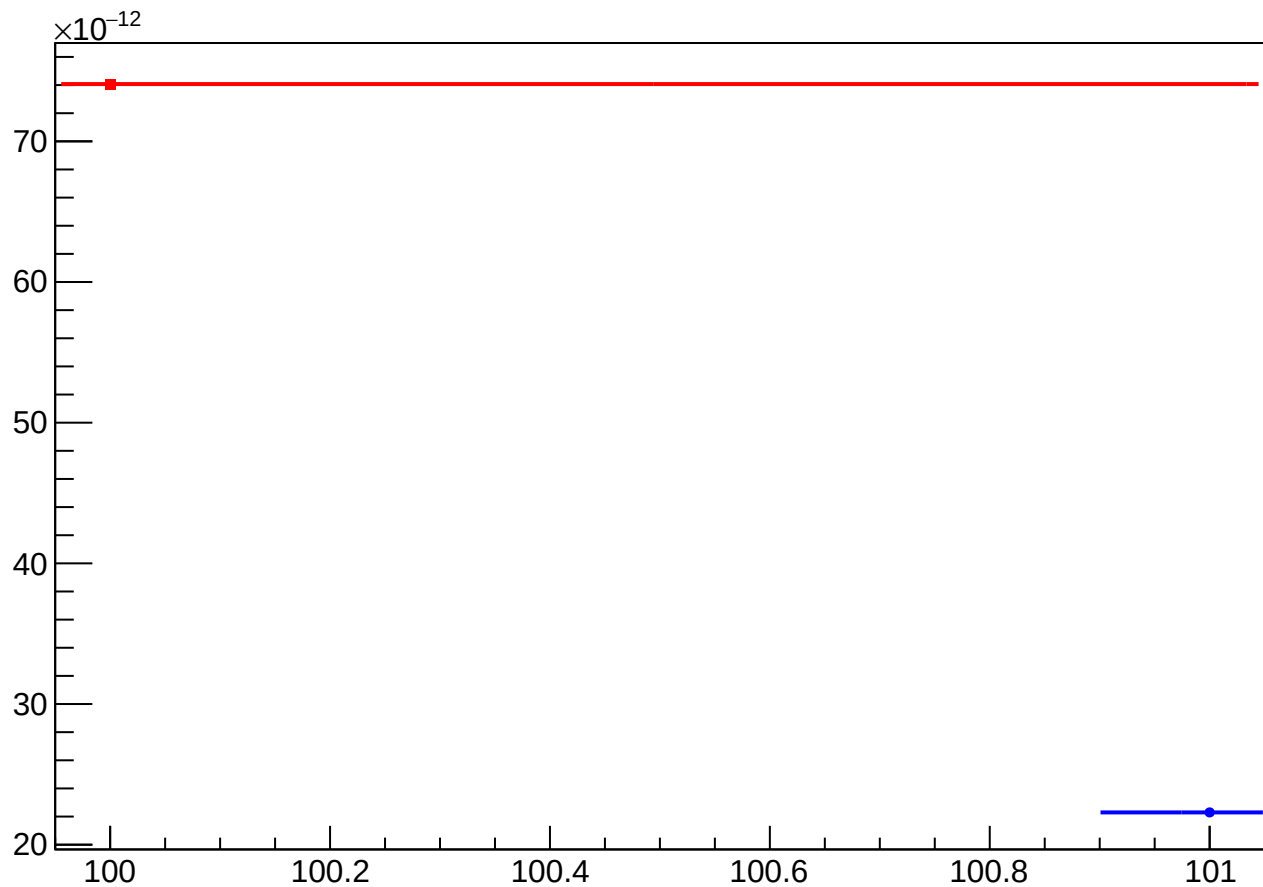
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

asym\_us\_dd\_atlr\_dd\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 27259.1/1

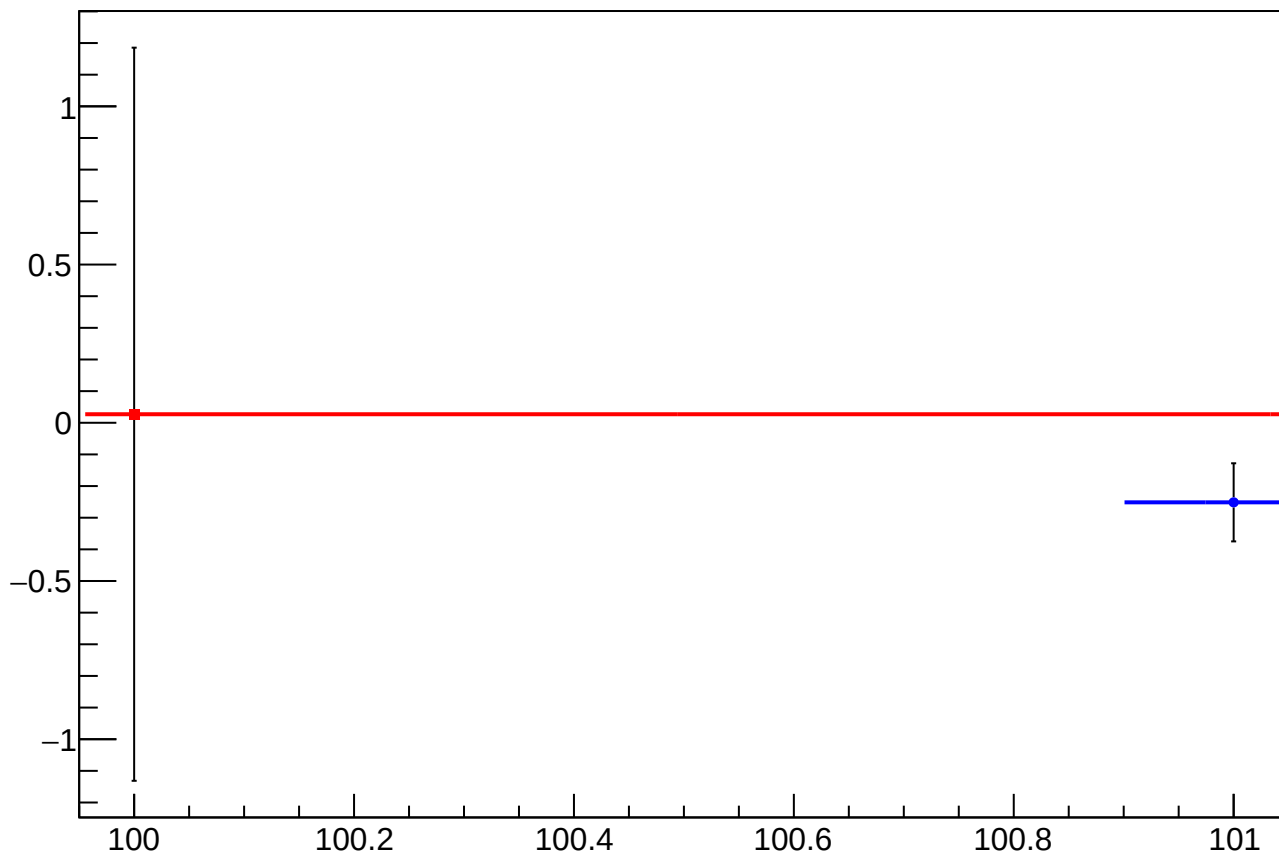
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 27259.1/1



asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.251 $\pm$ 0.123  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.027 $\pm$ 1.158  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

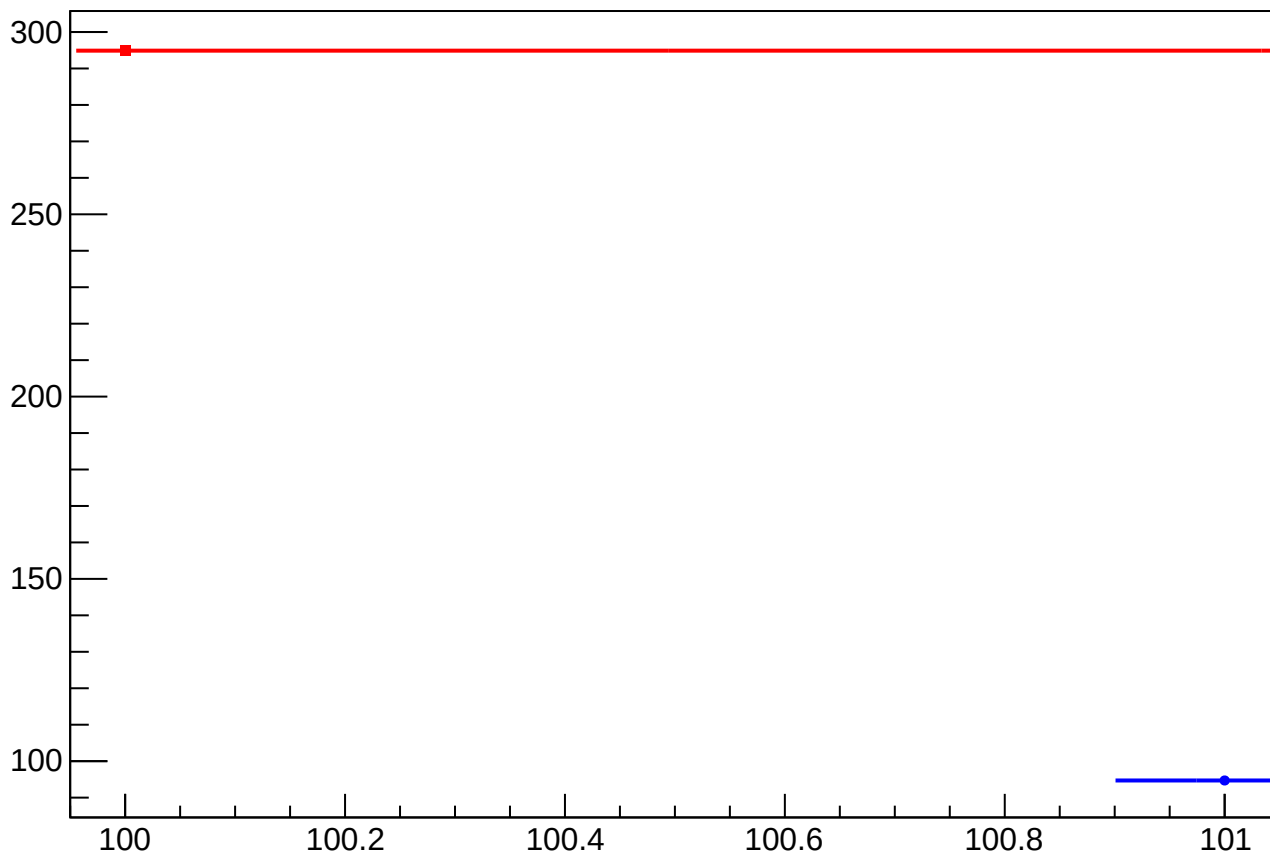
Right: -0.248 $\pm$ 0.123  $\chi^2$ /NDF: 0.1/1

In: -0.251 $\pm$ 0.123  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.248 $\pm$ 0.123  $\chi^2$ /NDF: 0.1/1

asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 94.703+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 294.888+/-0.819  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

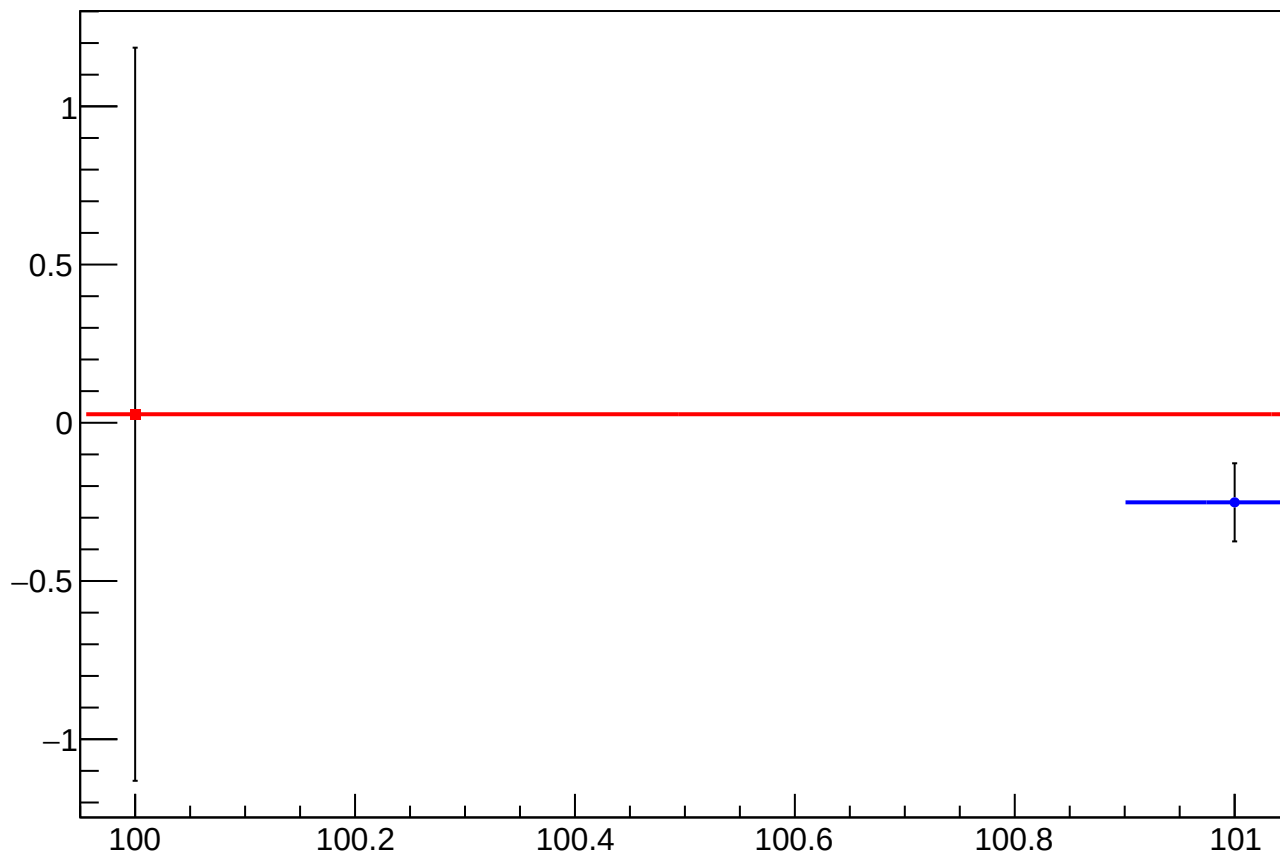
Right: 96.951+/-0.087  $\chi^2/\text{NDF}$ : 59058.5/1

In: 94.703+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.951+/-0.087  $\chi^2/\text{NDF}$ : 59058.5/1

asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.251+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.027+/-1.158  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

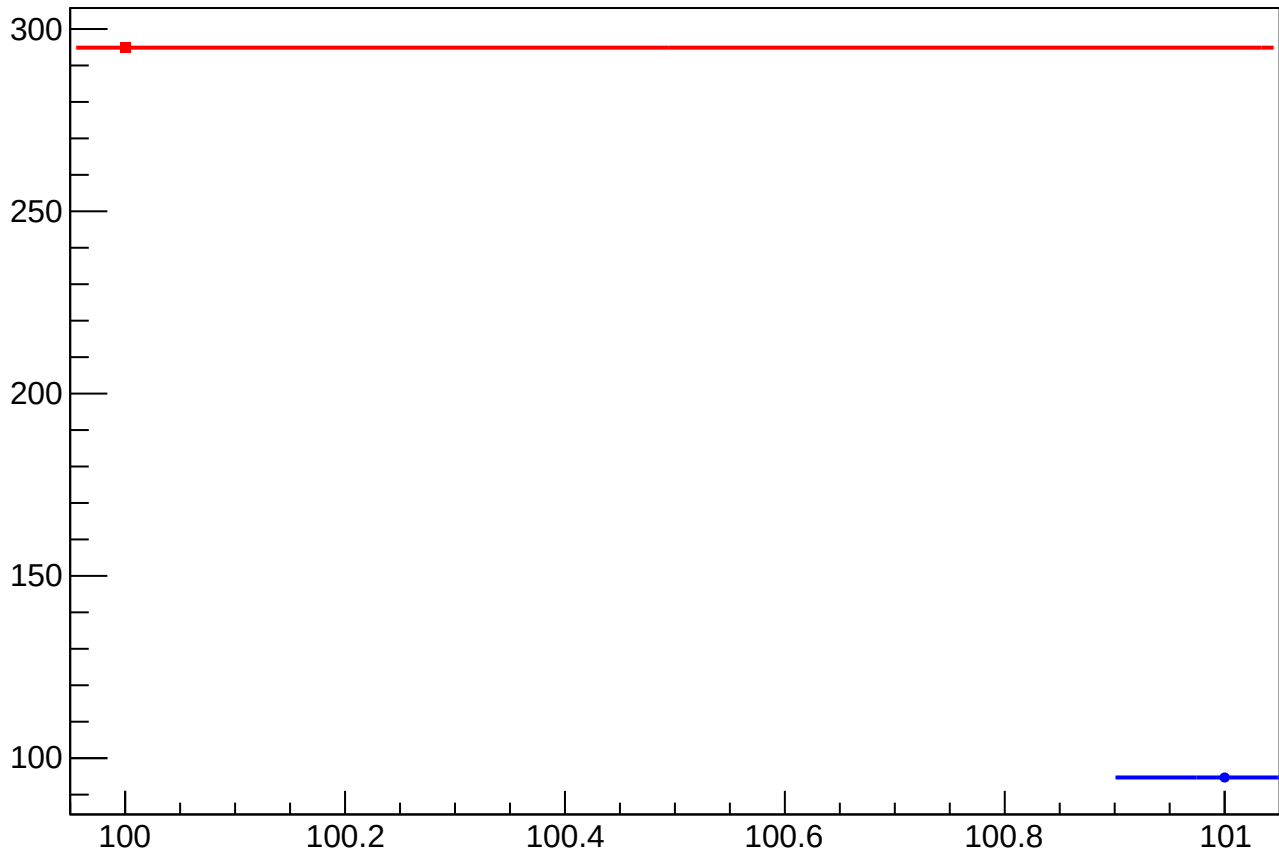
Right: -0.248+/-0.123  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.251+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.248+/-0.123  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_dd\_atlr\_dd\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 94.703+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 294.888+/-0.819  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

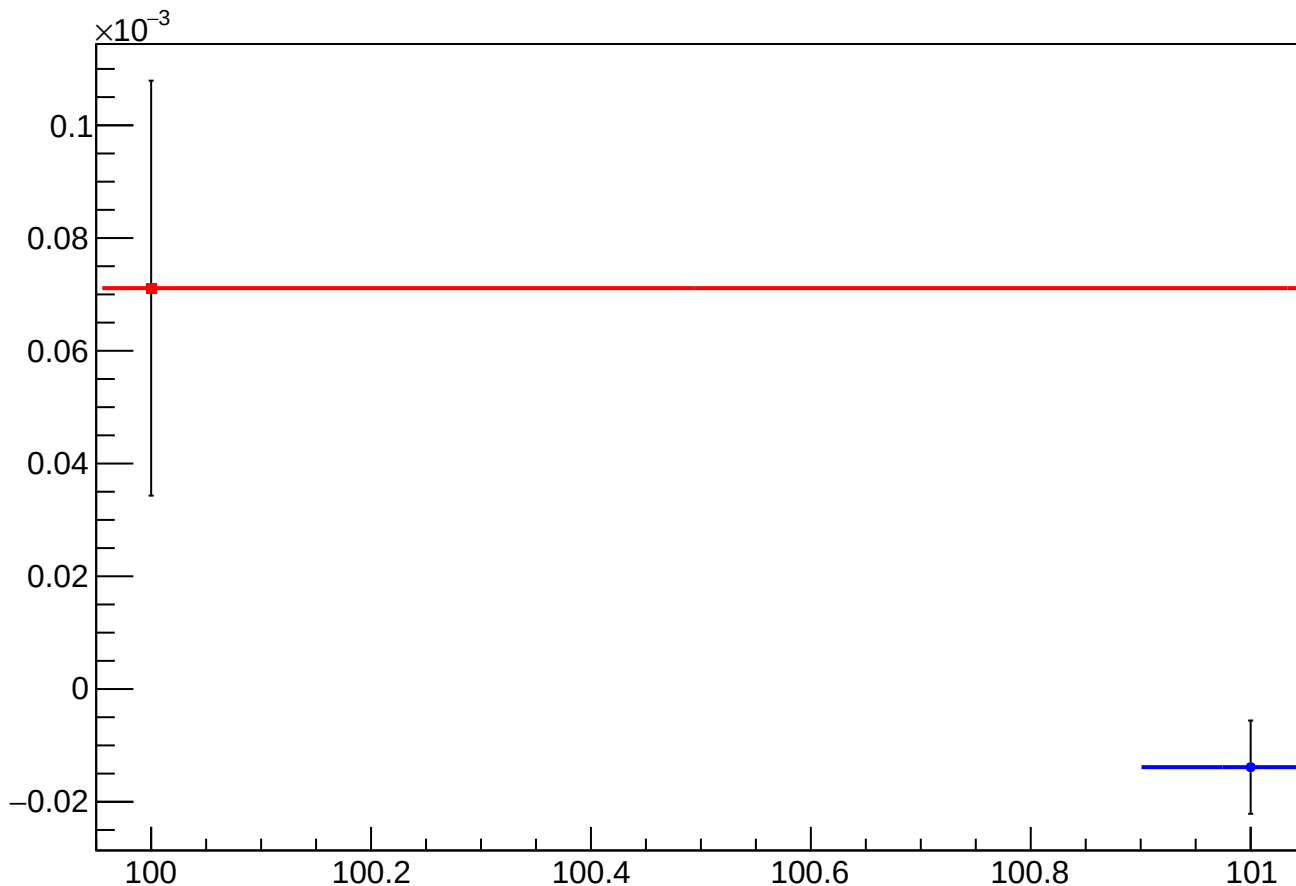
Right: 96.951+/-0.087  $\chi^2/\text{NDF}$ : 59058.5/1

In: 94.703+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.951+/-0.087  $\chi^2/\text{NDF}$ : 59058.5/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

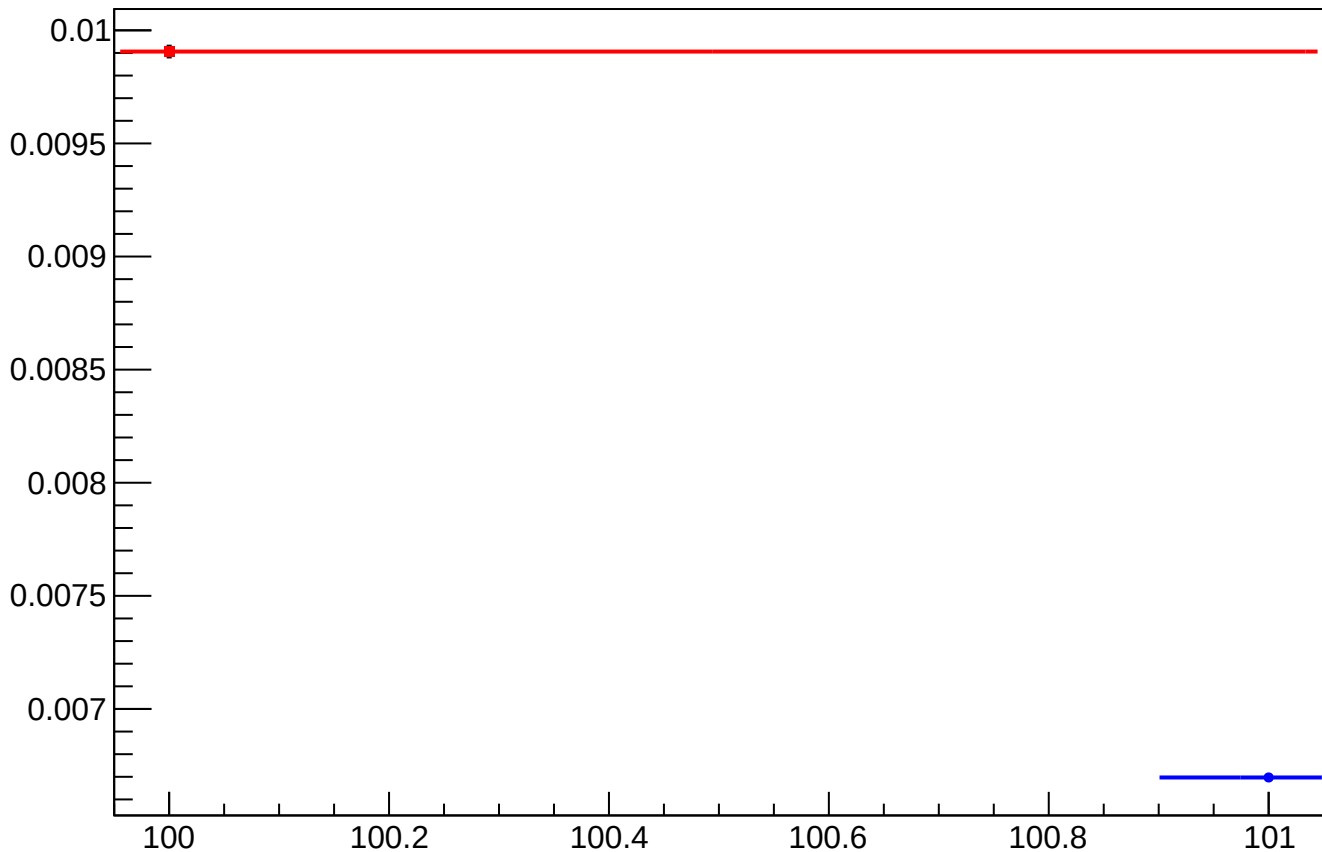
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.1/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

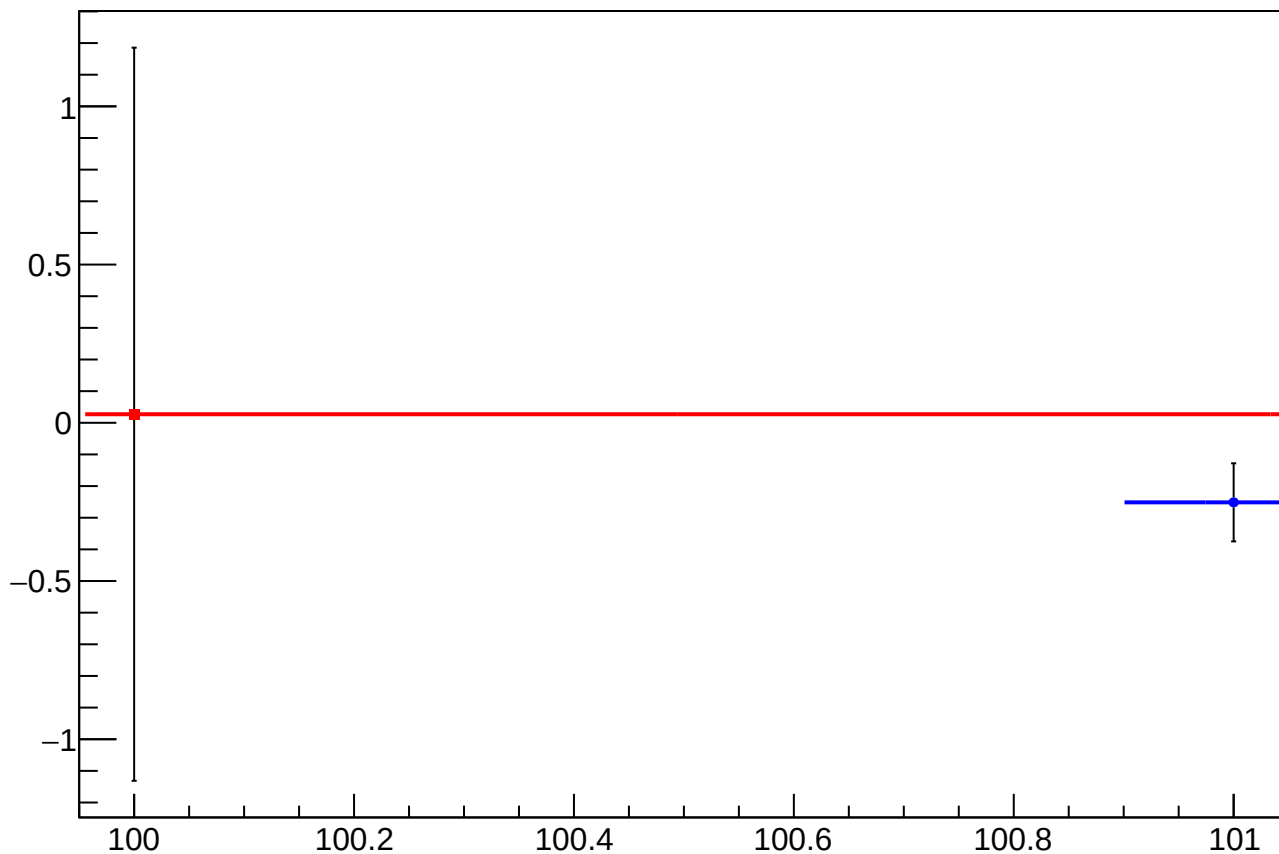
Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 14475.0/1

In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 14475.0/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.251+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.027+/-1.158  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

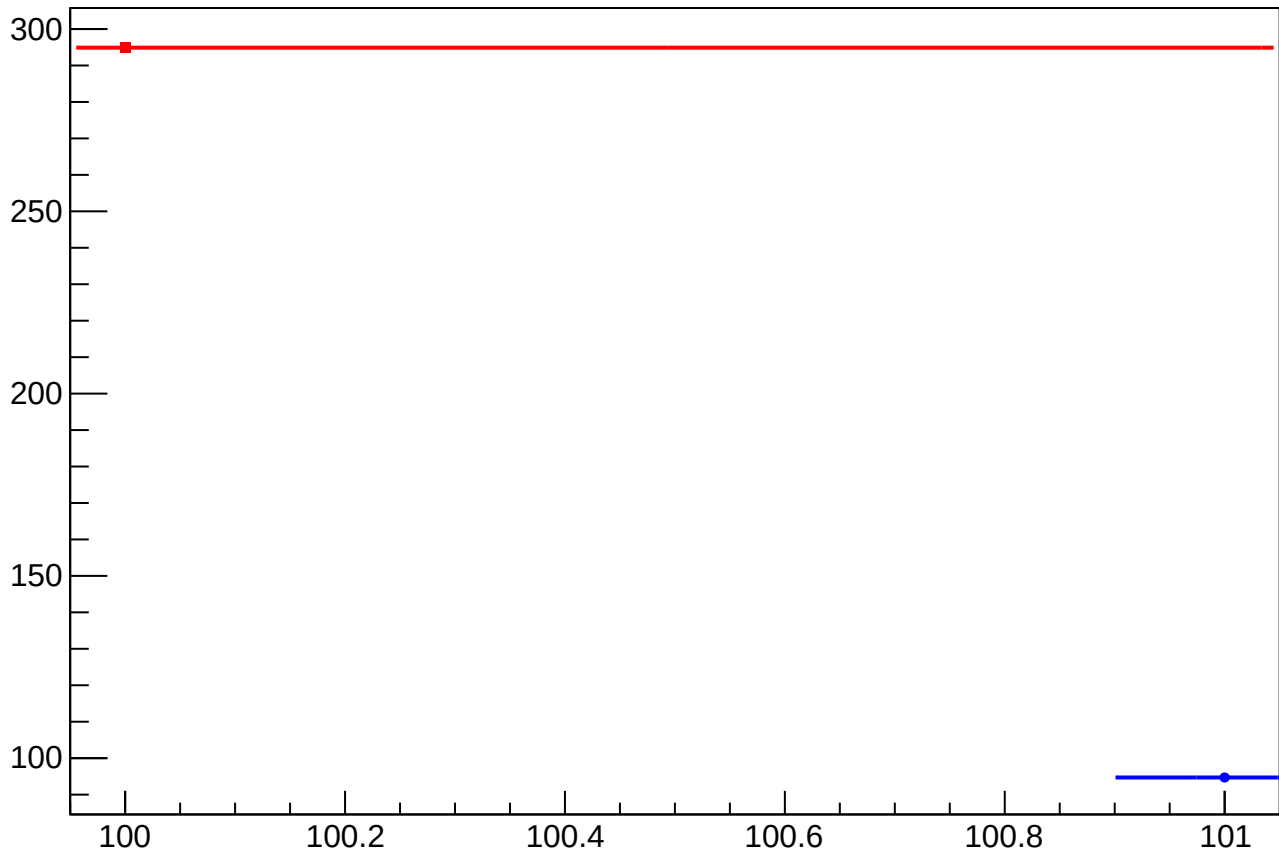
Right: -0.248+/-0.123  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.251+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.248+/-0.123  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 94.705+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 294.894+/-0.819  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 96.952+/-0.087  $\chi^2/\text{NDF}$ : 59058.6/1

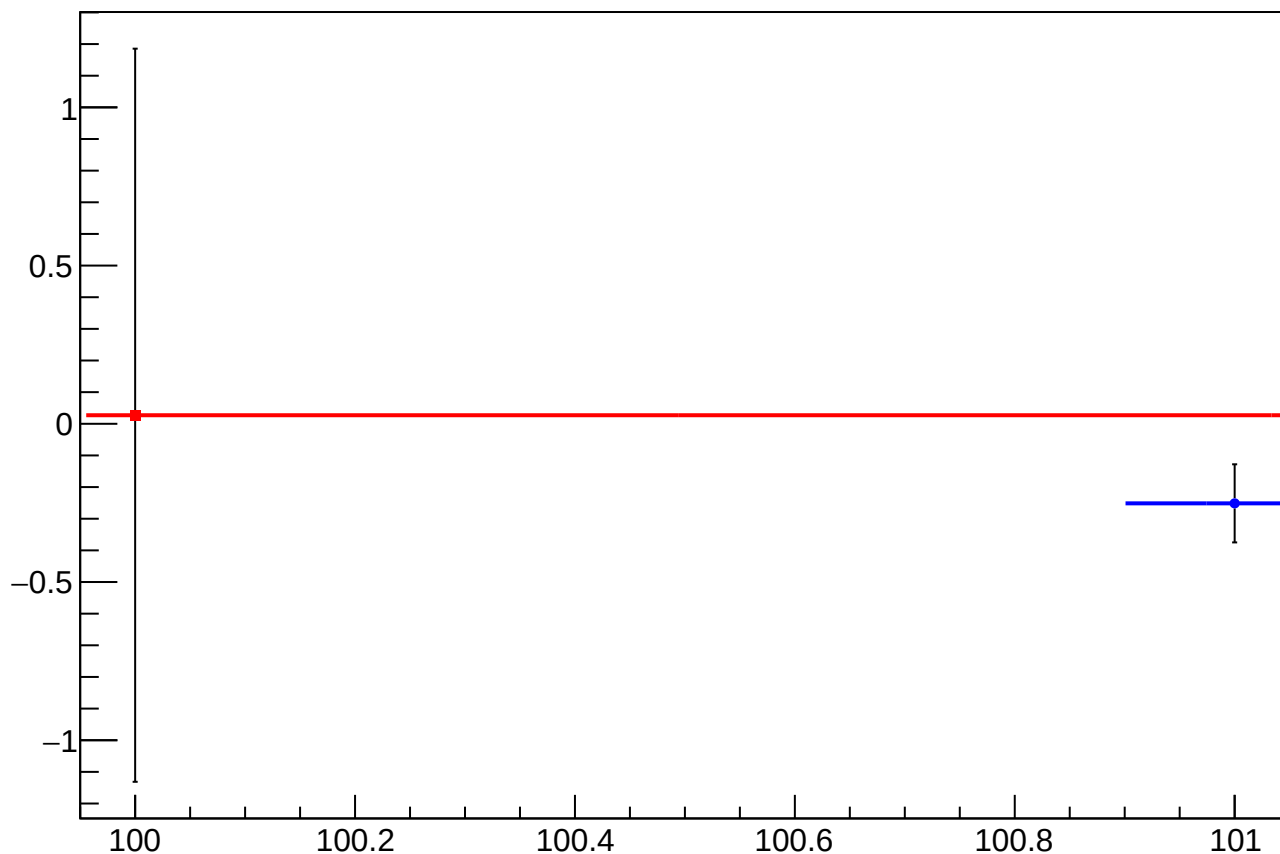
In: 94.705+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.952+/-0.087  $\chi^2/\text{NDF}$ : 59058.6/1



asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.251+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.027+/-1.158  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

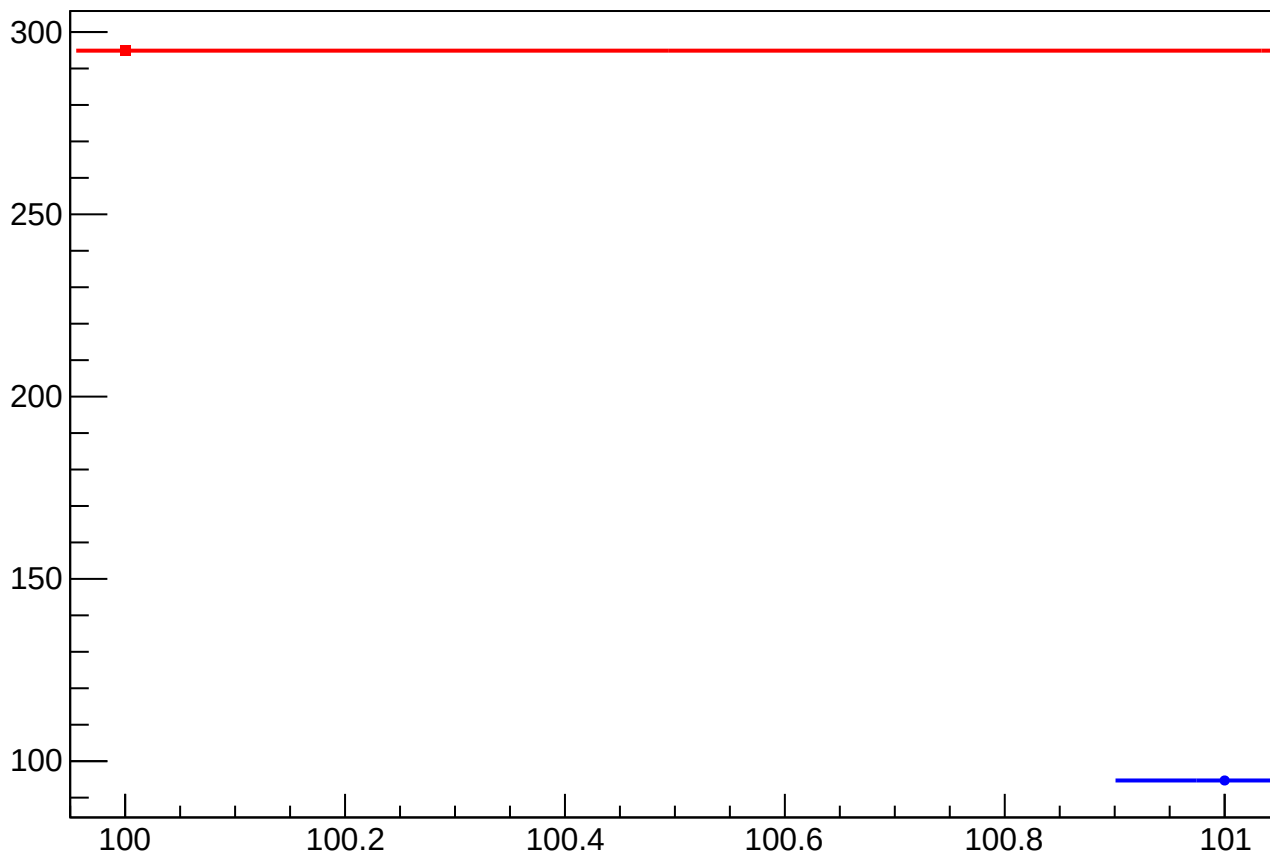
Right: -0.248+/-0.123  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.251+/-0.123  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.248+/-0.123  $\chi^2/\text{NDF}$ : 0.1/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 94.705 $\pm$ 0.087  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 294.894 $\pm$ 0.819  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

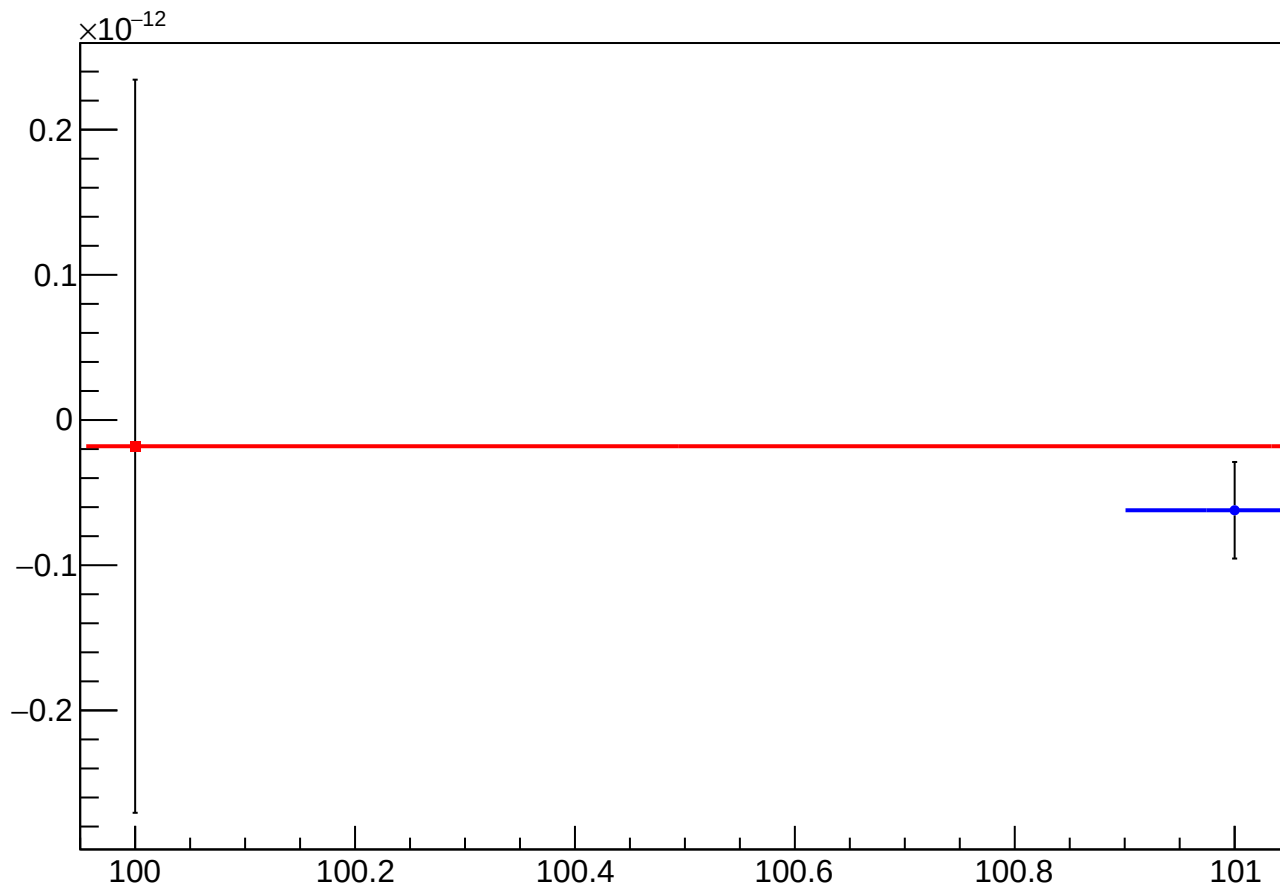
Right: 96.952 $\pm$ 0.087  $\chi^2$ /NDF: 59058.6/1

In: 94.705 $\pm$ 0.087  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 96.952 $\pm$ 0.087  $\chi^2$ /NDF: 59058.6/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

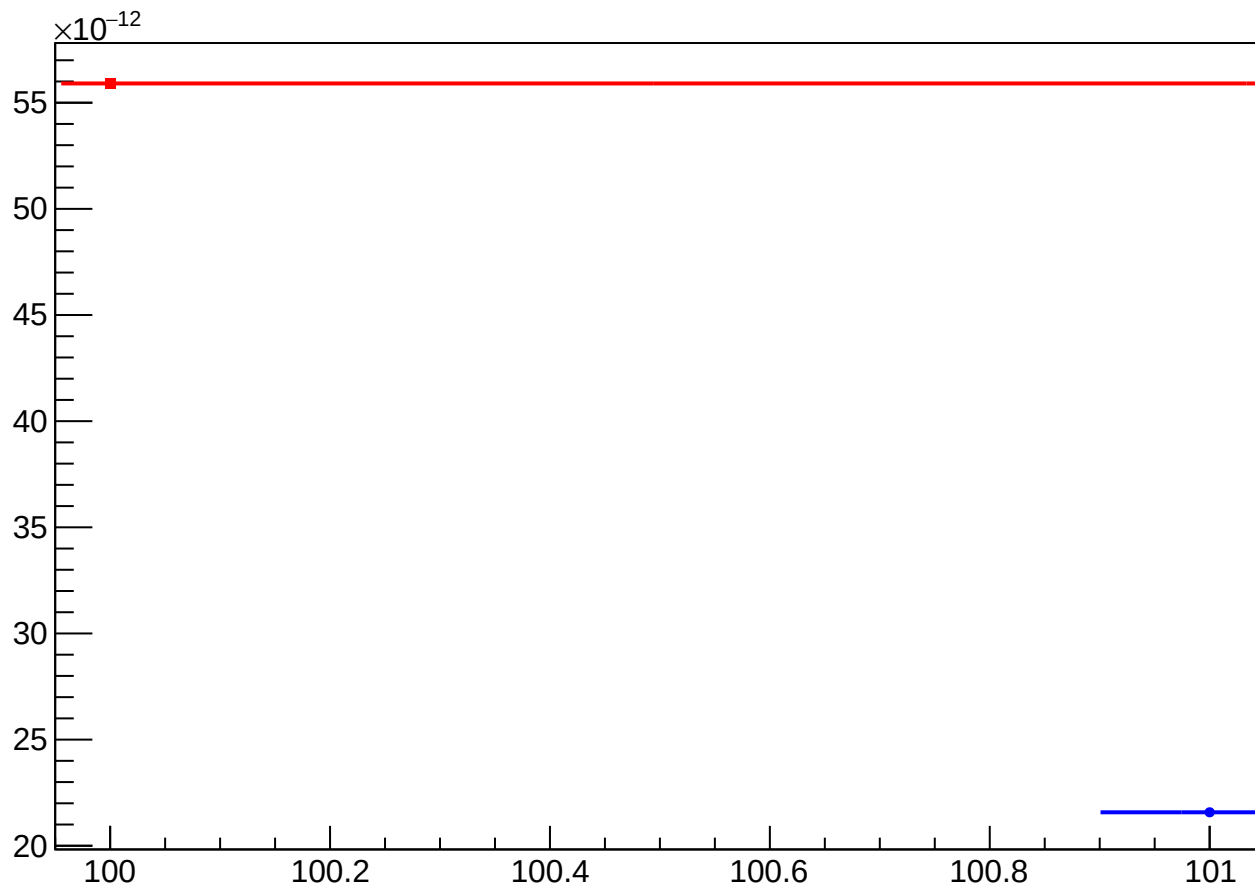
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_us\_dd\_atlr\_dd\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

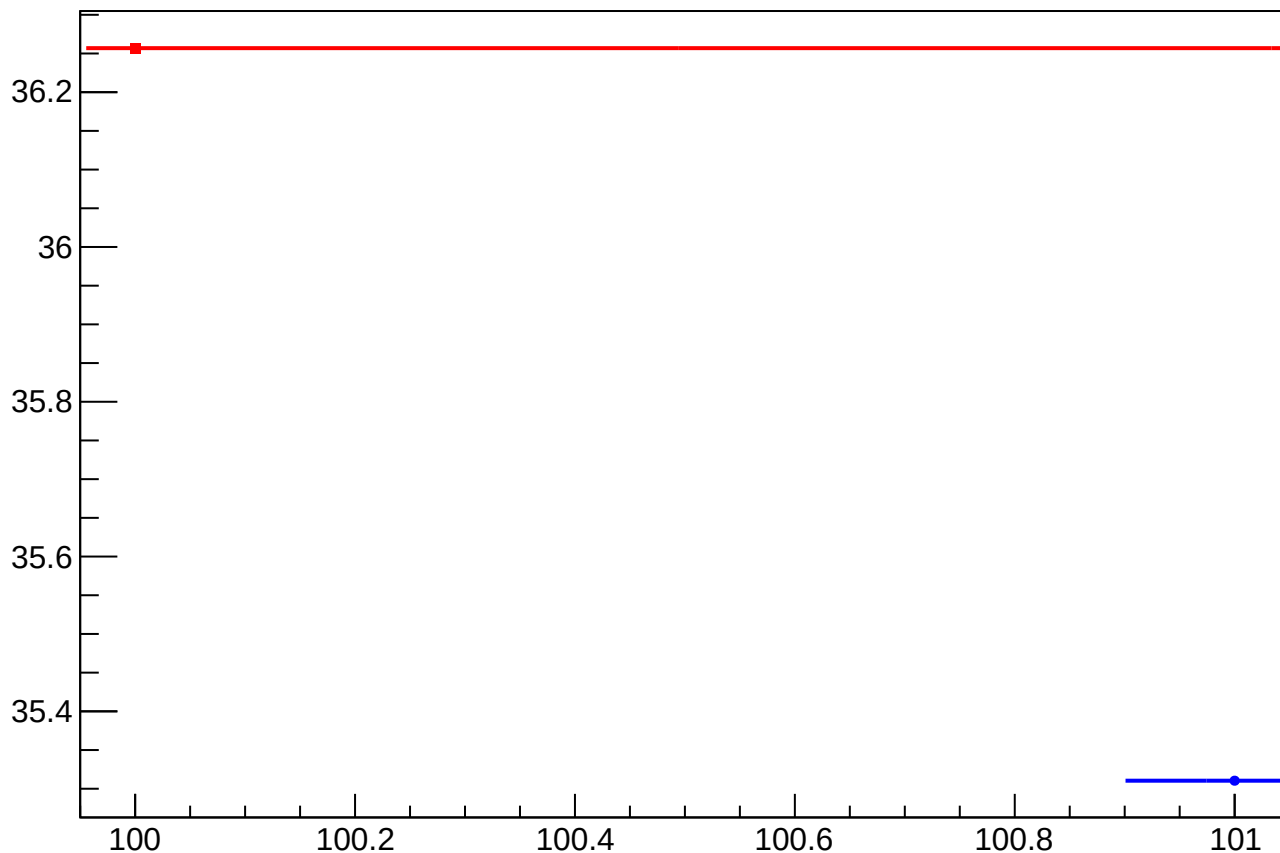
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 36347.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 36347.3/1

# yield\_usl\_mean vs Slug, Sign Corrected



Right In: 35.310+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.257+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

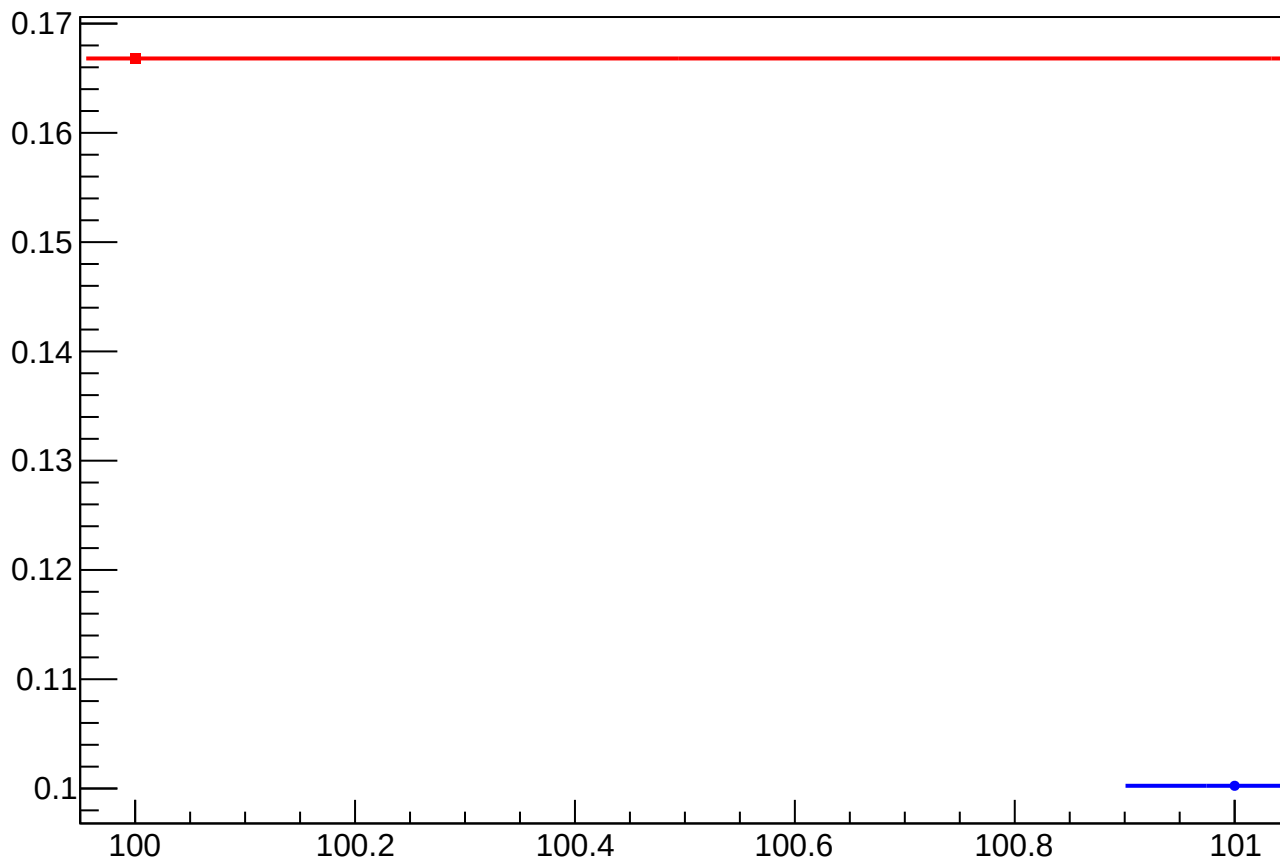
Right: 35.351+/-0.000  $\chi^2/\text{NDF}$ : 2221092.0/1

In: 35.310+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.351+/-0.000  $\chi^2/\text{NDF}$ : 2221092.0/1

# yield\_usl\_rms vs Slug, Sign Corrected



Right In: 0.100+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.167+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

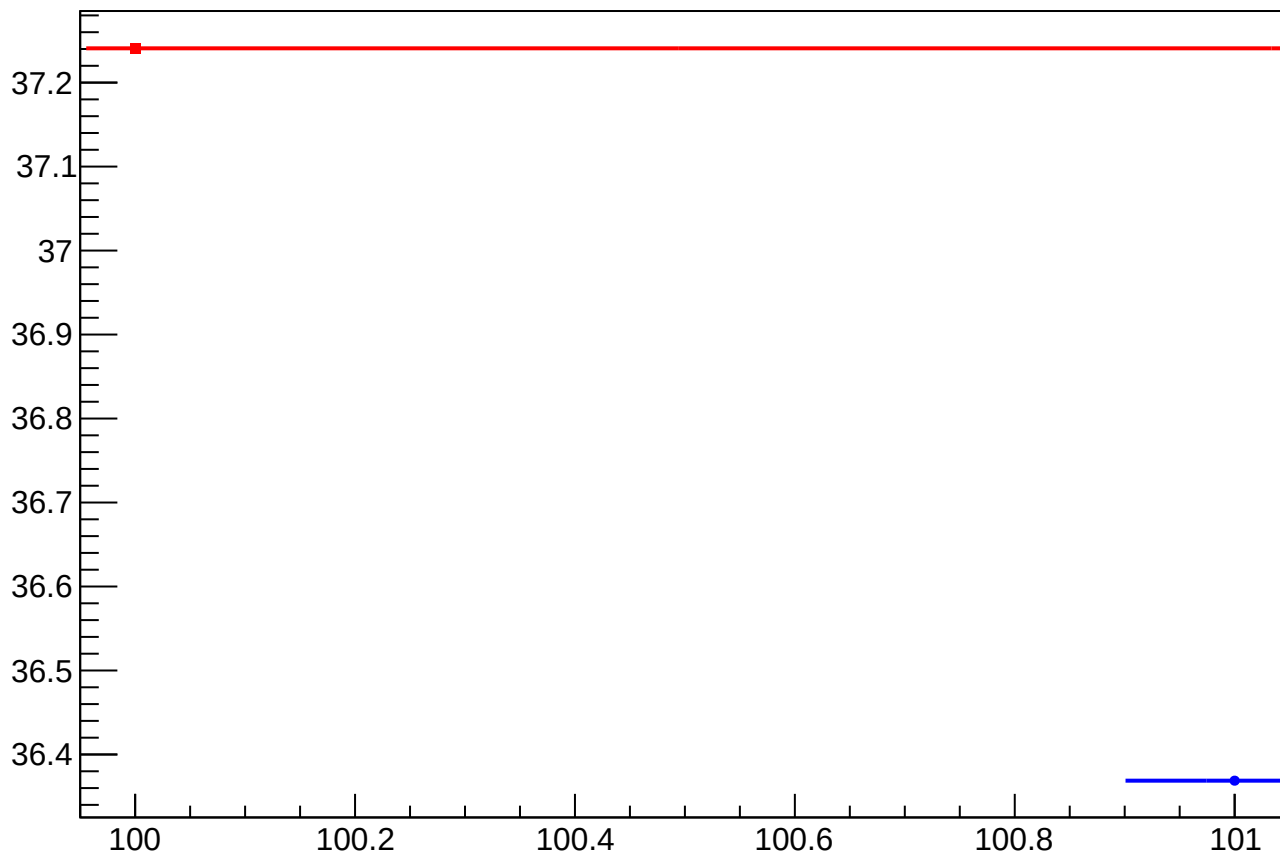
Right: 0.103+/-0.000  $\chi^2/\text{NDF}$ : 21965.9/1

In: 0.100+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.103+/-0.000  $\chi^2/\text{NDF}$ : 21965.9/1

# yield\_usr\_mean vs Slug, Sign Corrected



Right In: 36.369 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.241 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

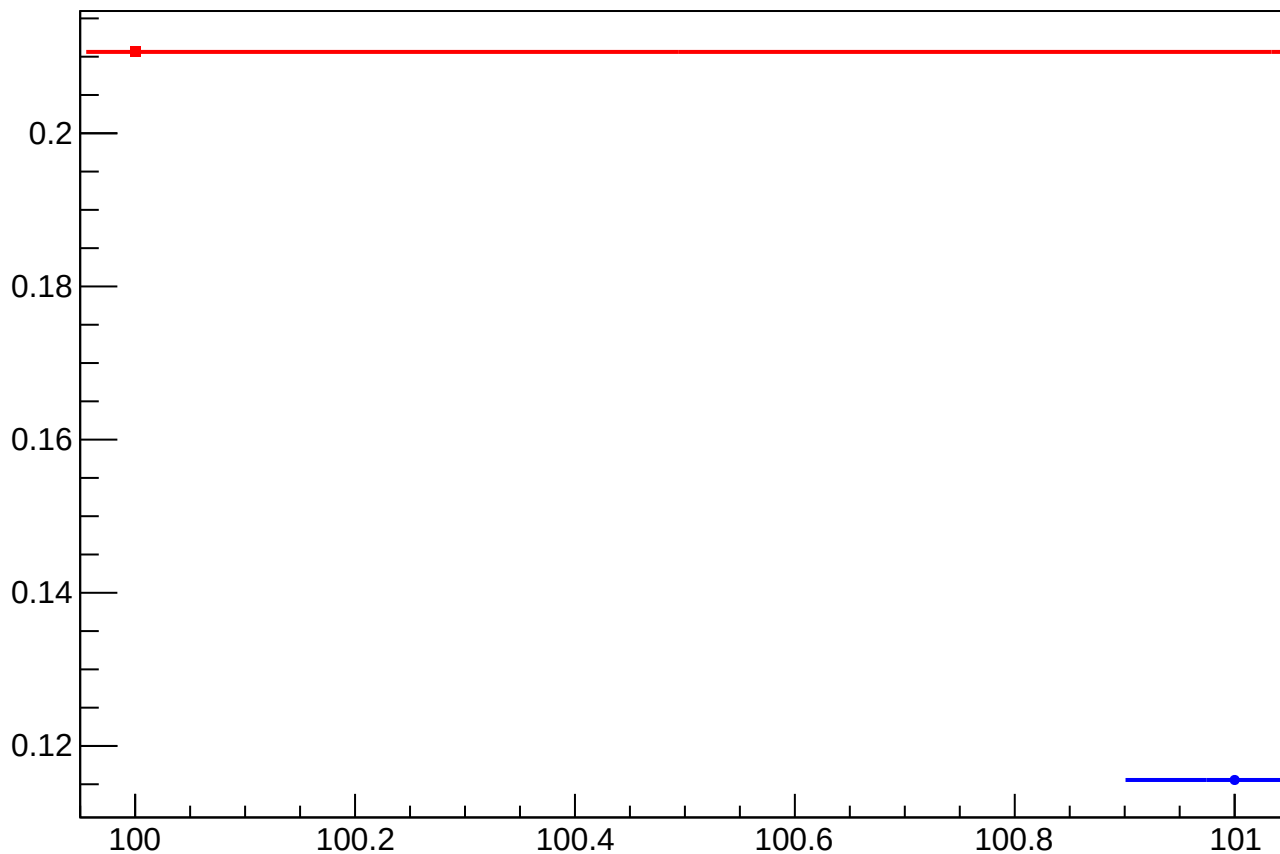
Right: 36.400 $\pm$ 0.000  $\chi^2$ /NDF: 1196198.5/1

In: 36.369 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 36.400 $\pm$ 0.000  $\chi^2$ /NDF: 1196198.5/1

# yield\_usr\_rms vs Slug, Sign Corrected



Right In: 0.116 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.211 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.119 $\pm$ 0.000  $\chi^2$ /NDF: 28435.4/1

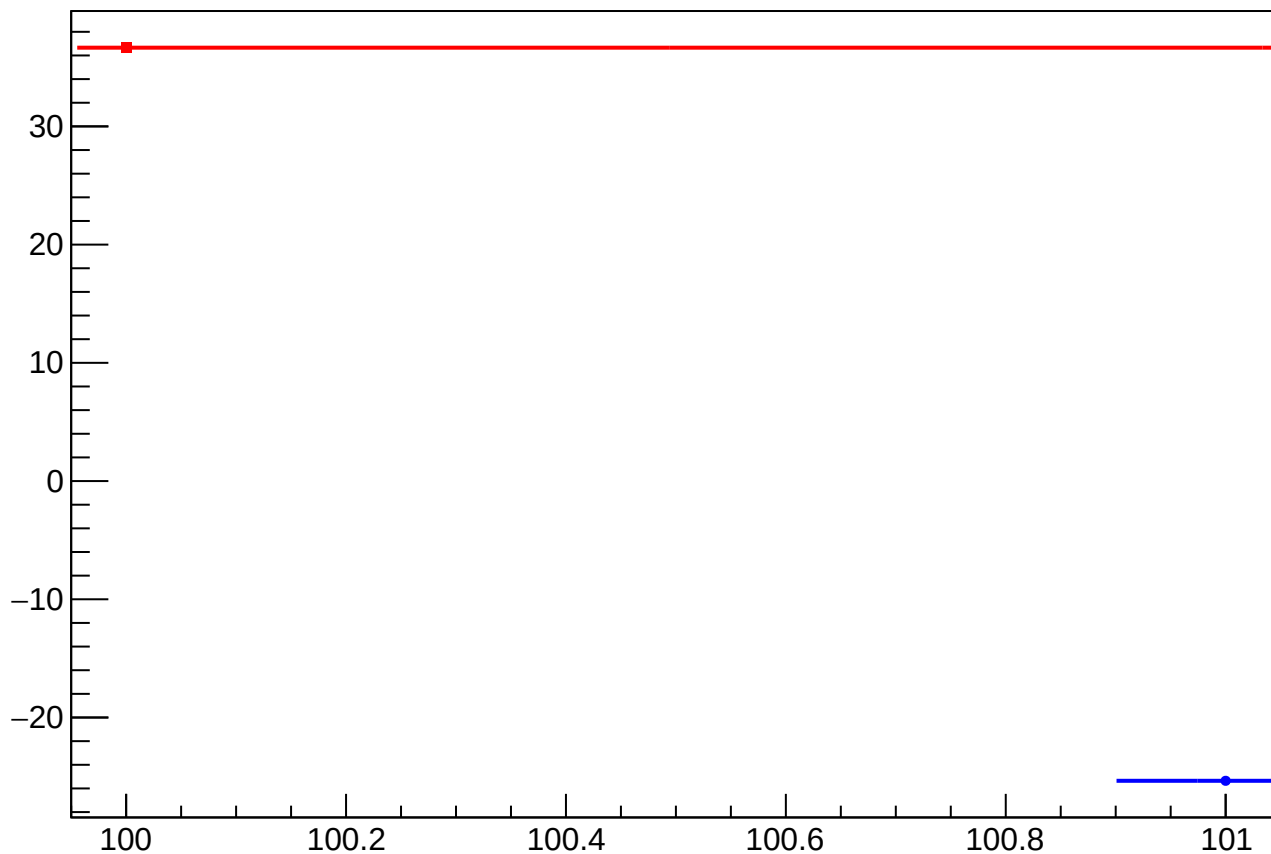
In: 0.116 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.119 $\pm$ 0.000  $\chi^2$ /NDF: 28435.4/1



# yield\_dsl\_mean vs Slug, Sign Corrected



Right In: -25.354+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 36.658+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

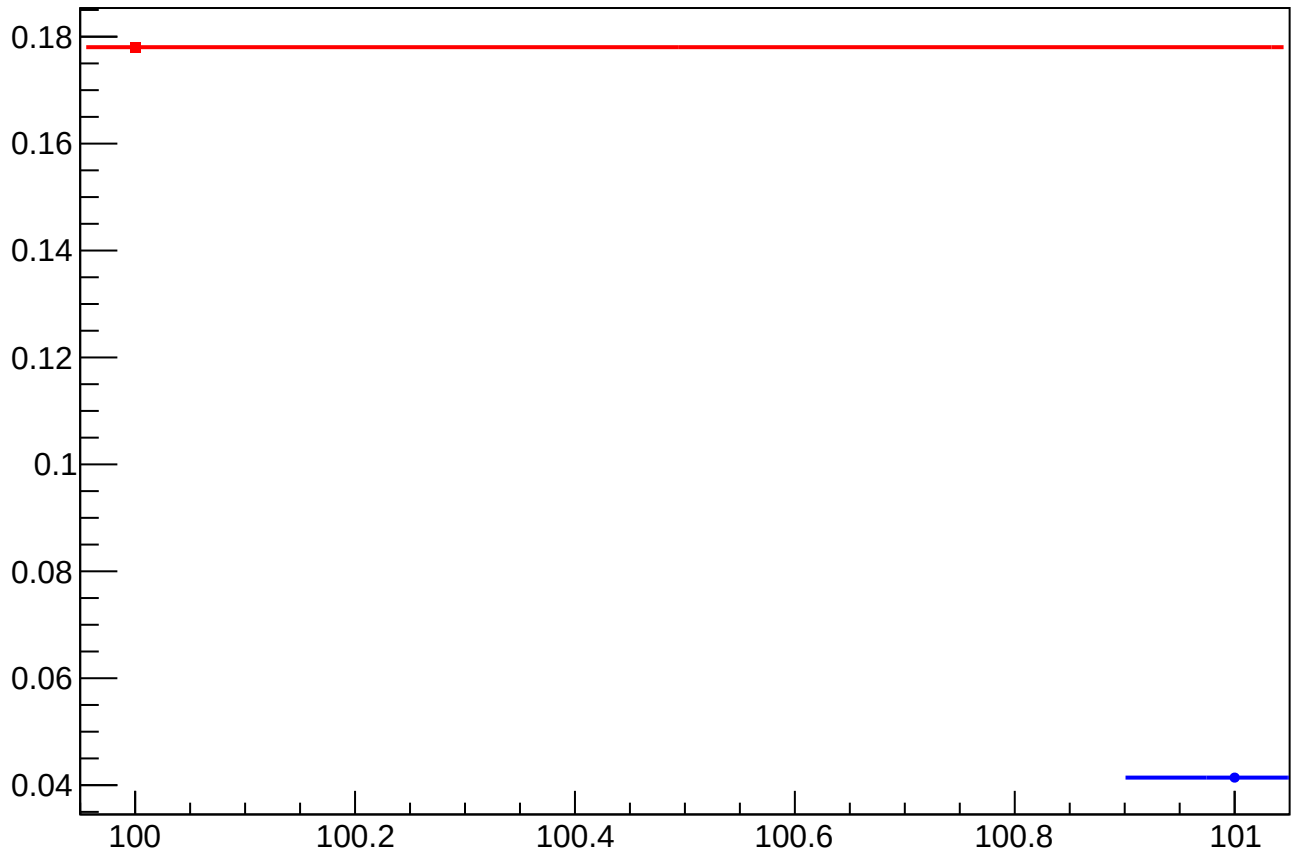
Right: -24.984+/-0.000  $\chi^2/\text{NDF}$ : 8689217256.3/1

In: -25.354+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.984+/-0.000  $\chi^2/\text{NDF}$ : 8689217256.3/1

# yield\_dsl\_rms vs Slug, Sign Corrected



Right In: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.178+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

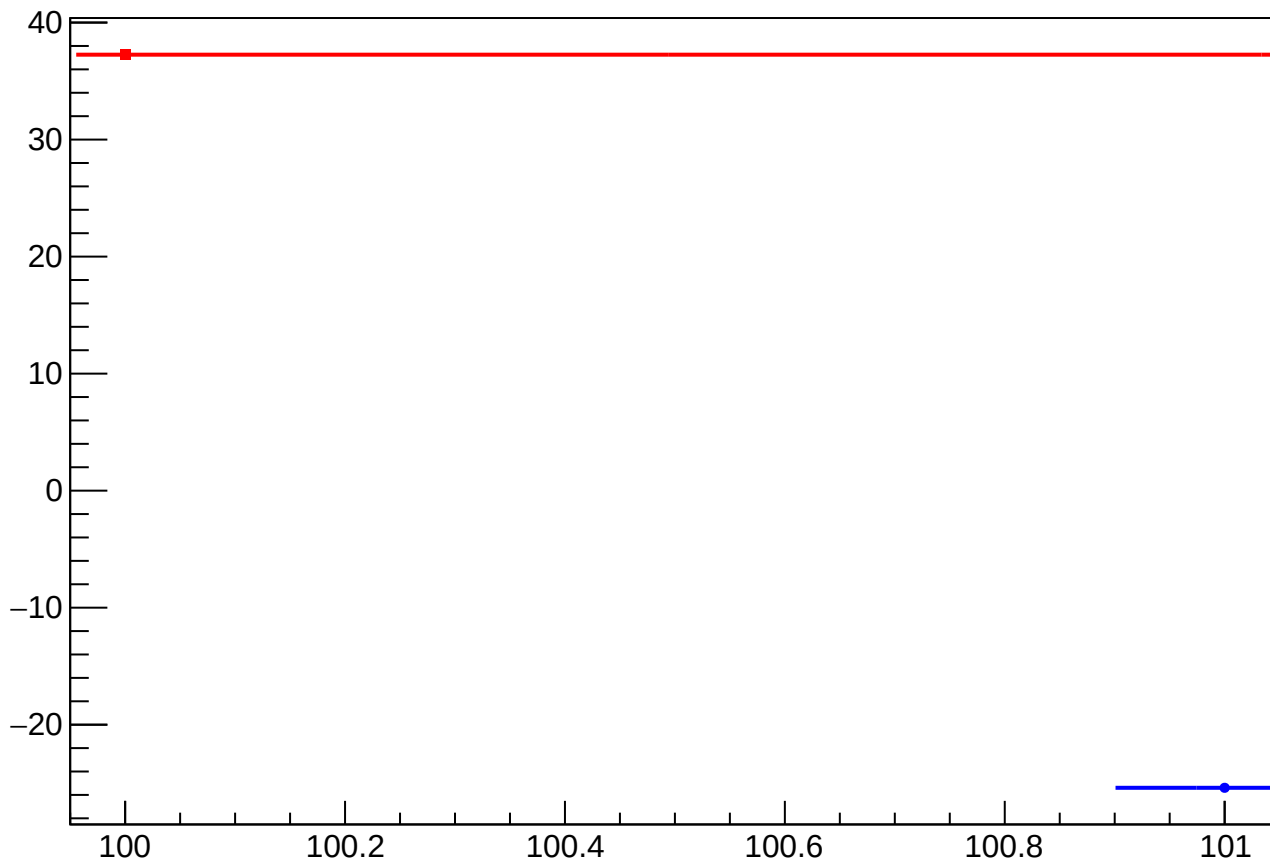
Right: 0.042+/-0.000  $\chi^2/\text{NDF}$ : 84358.9/1

In: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.042+/-0.000  $\chi^2/\text{NDF}$ : 84358.9/1

# yield\_dsr\_mean vs Slug, Sign Corrected



Right In: -25.392 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 37.255 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -24.842 $\pm$ 0.000  $\chi^2$ /NDF: 6253933660.8/1

In: -25.392 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -24.842 $\pm$ 0.000  $\chi^2$ /NDF: 6253933660.8/1

# yield\_dsr\_rms vs Slug, Sign Corrected



Right In: 0.059+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.212+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

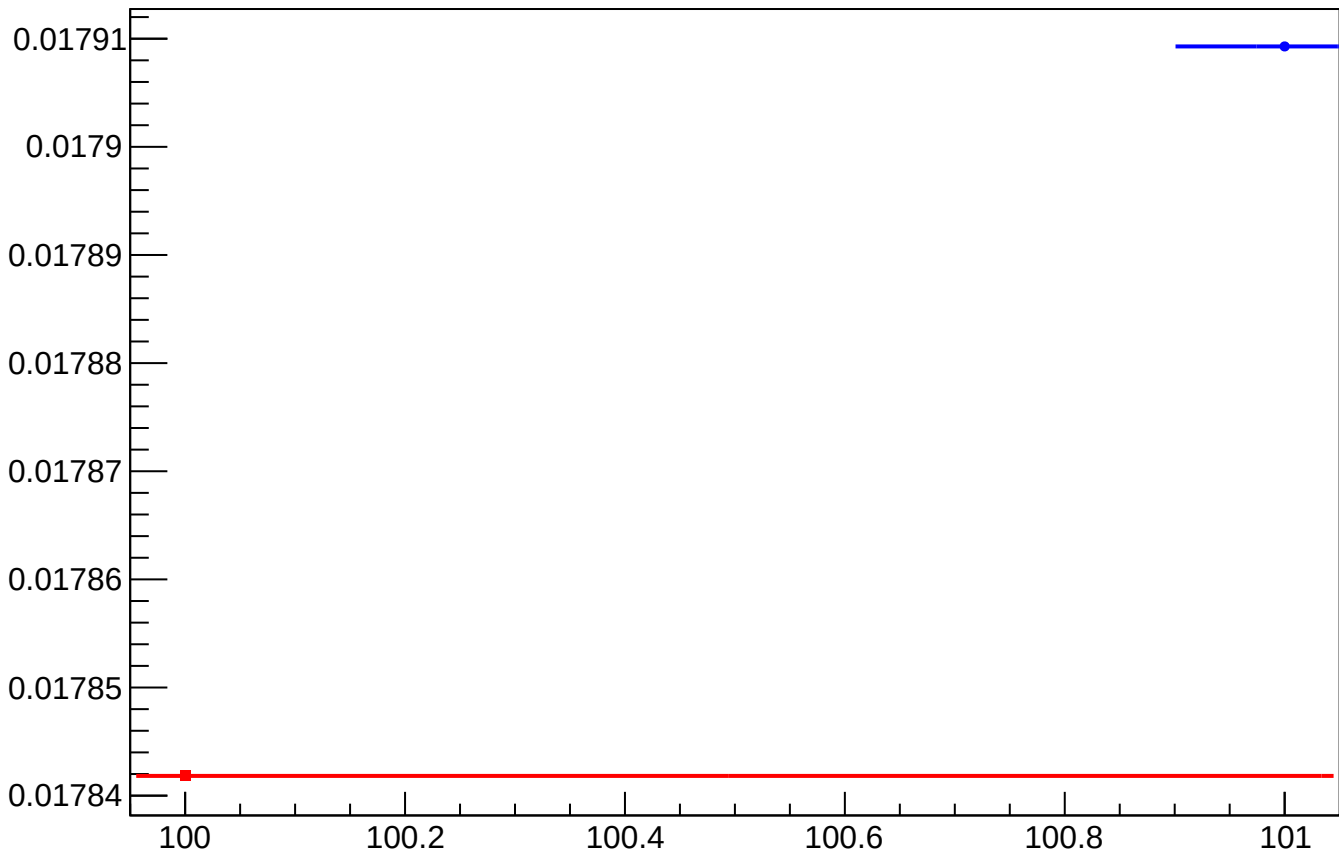
Right: 0.061+/-0.000  $\chi^2/\text{NDF}$ : 74570.4/1

In: 0.059+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.061+/-0.000  $\chi^2/\text{NDF}$ : 74570.4/1

# yield\_atl1\_mean vs Slug, Sign Corrected



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

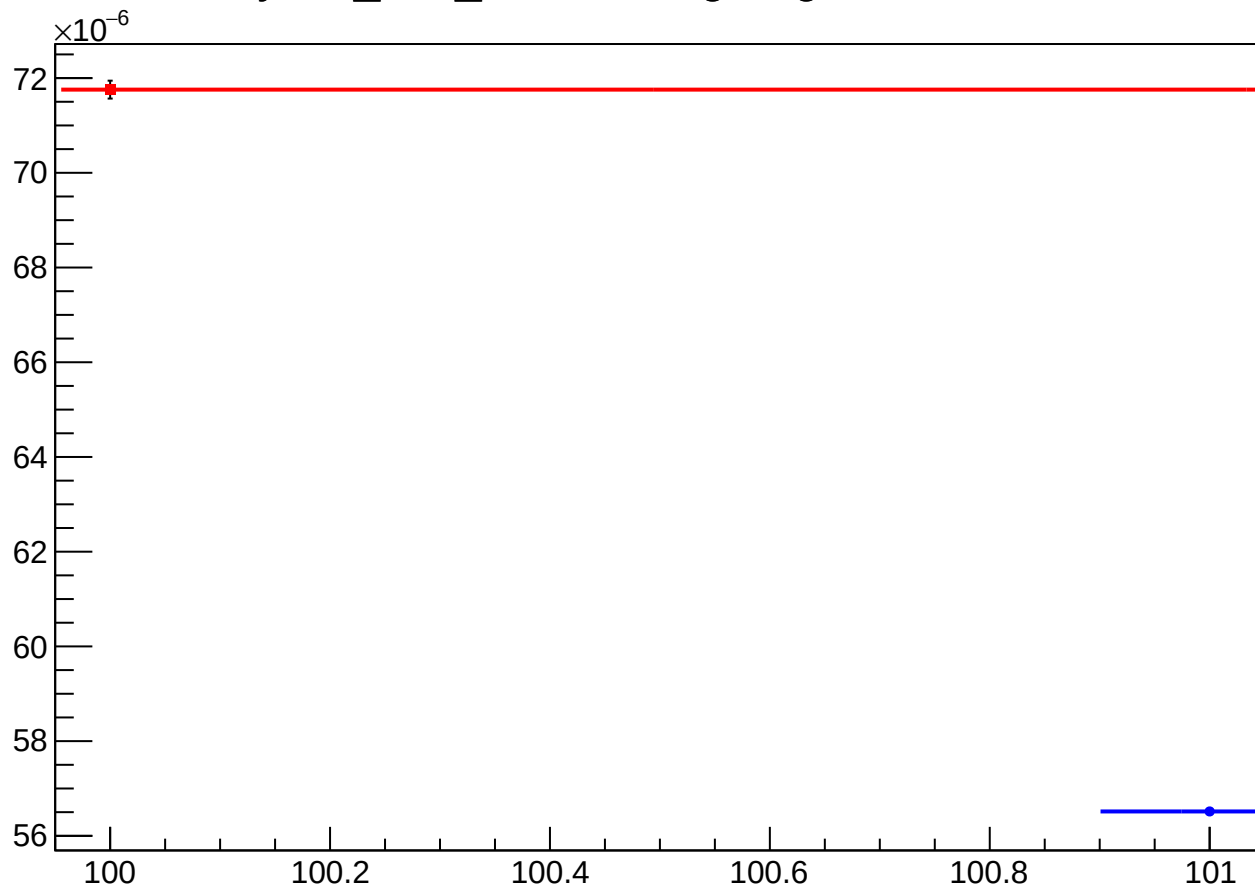
Right: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 59614.8/1

In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 59614.8/1

# yield\_atl1\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

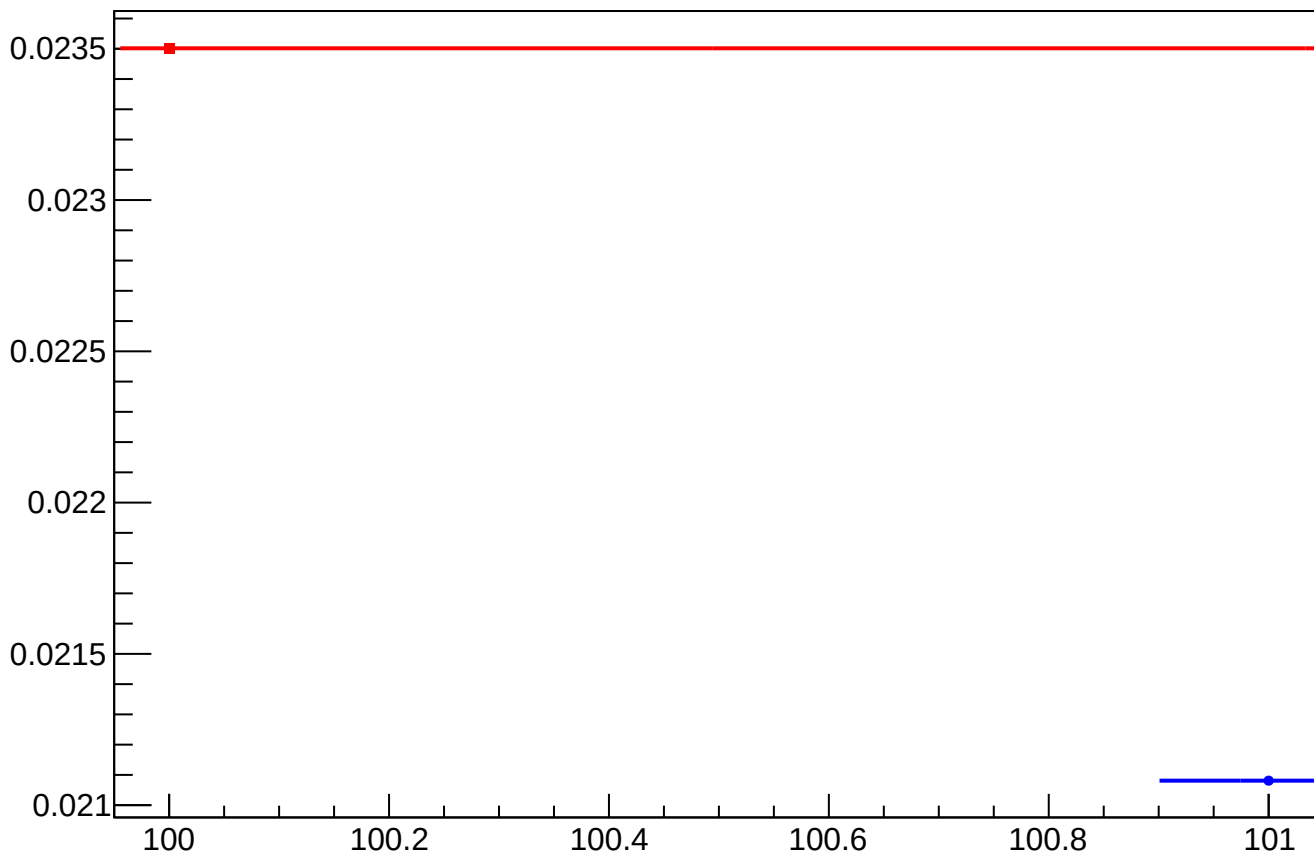
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6086.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6086.1/1

# yield\_atl2\_mean vs Slug, Sign Corrected



Right In: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

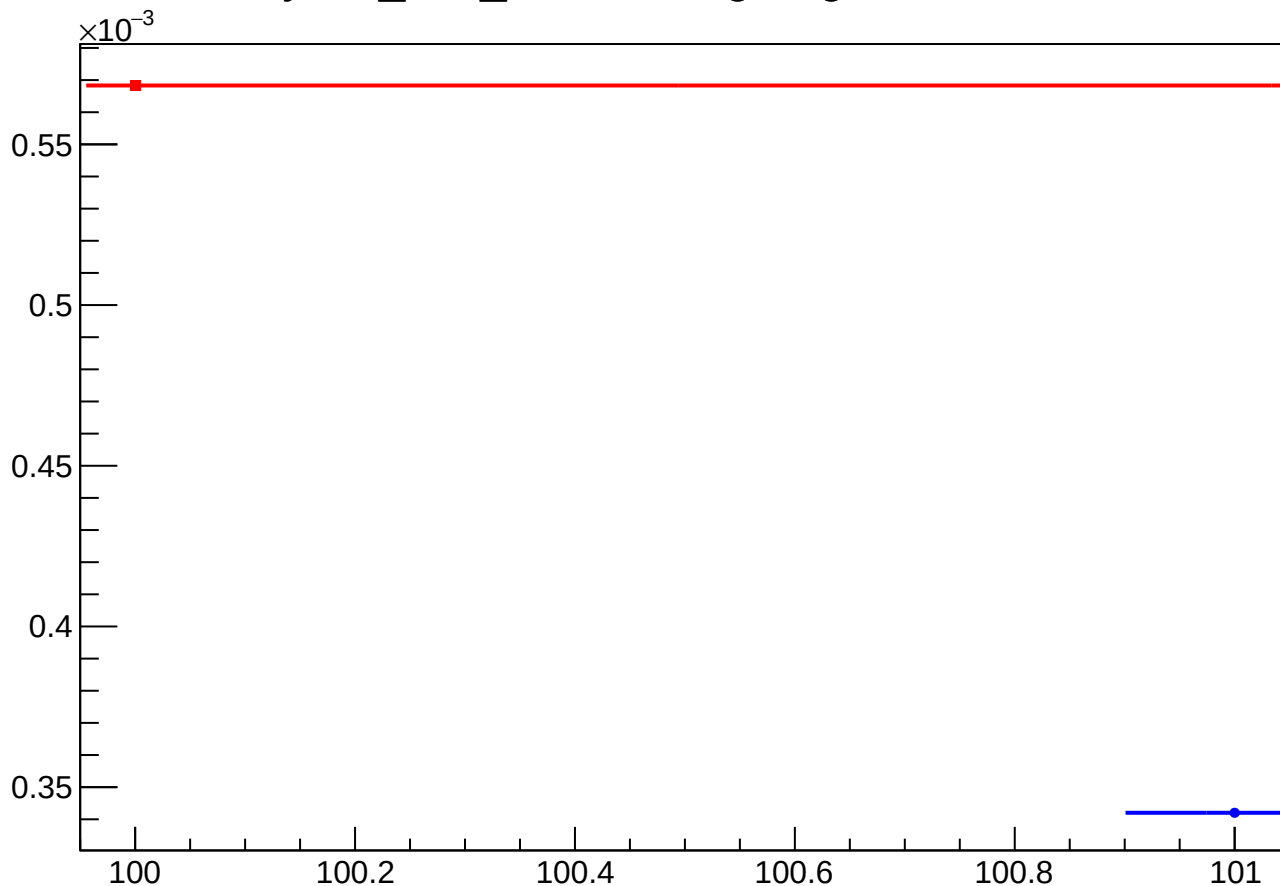
Right: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 1249606.0/1

In: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 1249606.0/1

# yield\_atl2\_rms vs Slug, Sign Corrected



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: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 21842.2/1

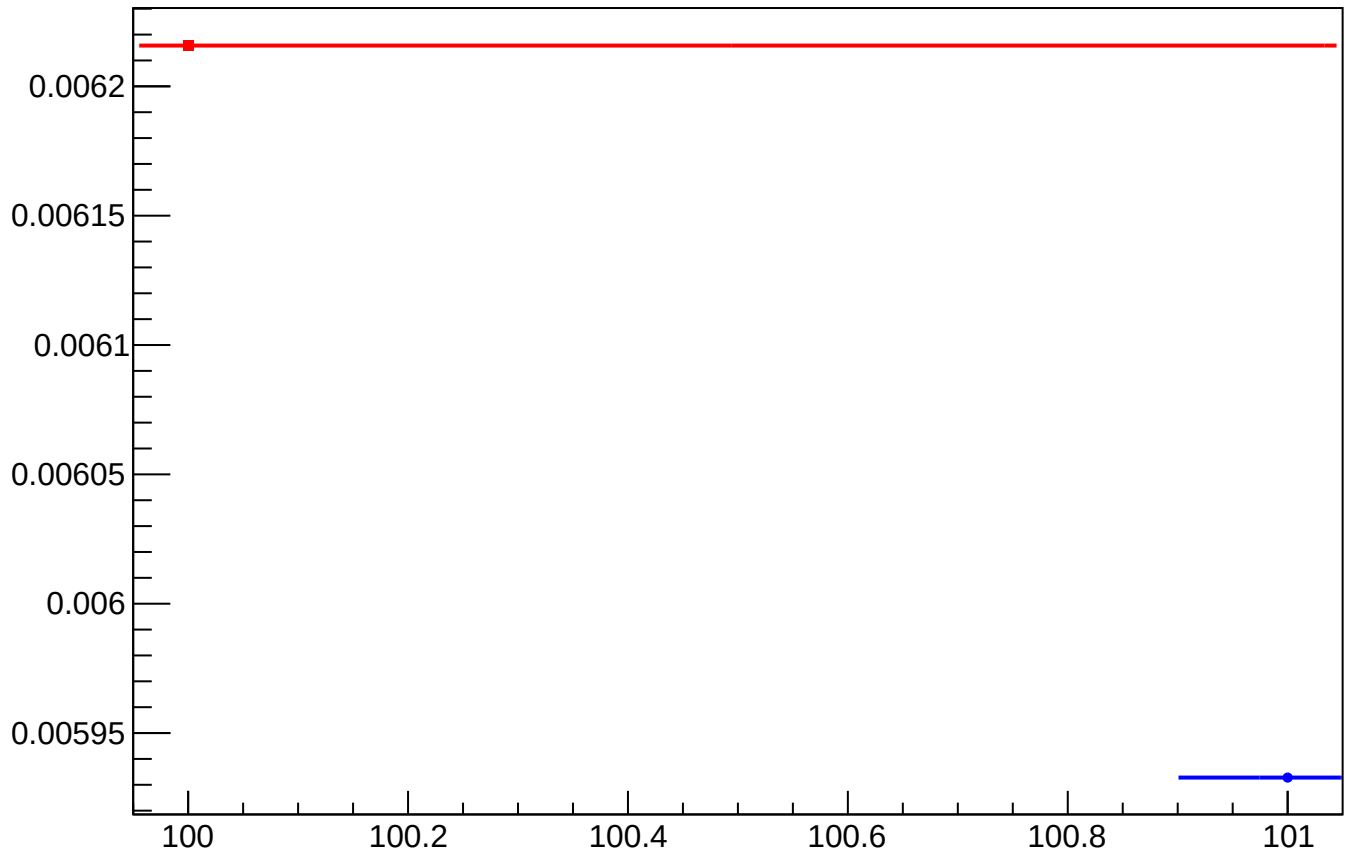
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 21842.2/1



# yield\_atr1\_mean vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

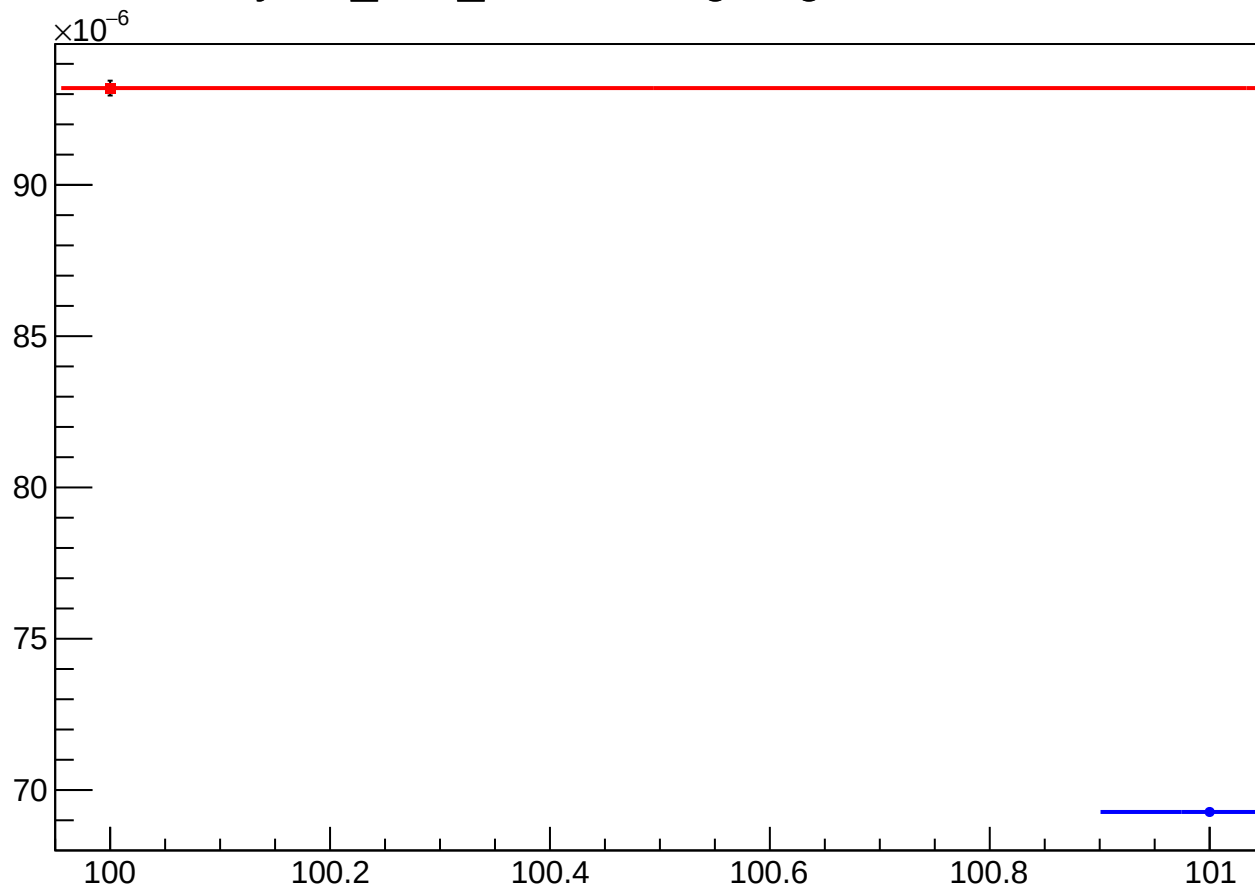
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 628344.8/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 628344.8/1

# yield\_atr1\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

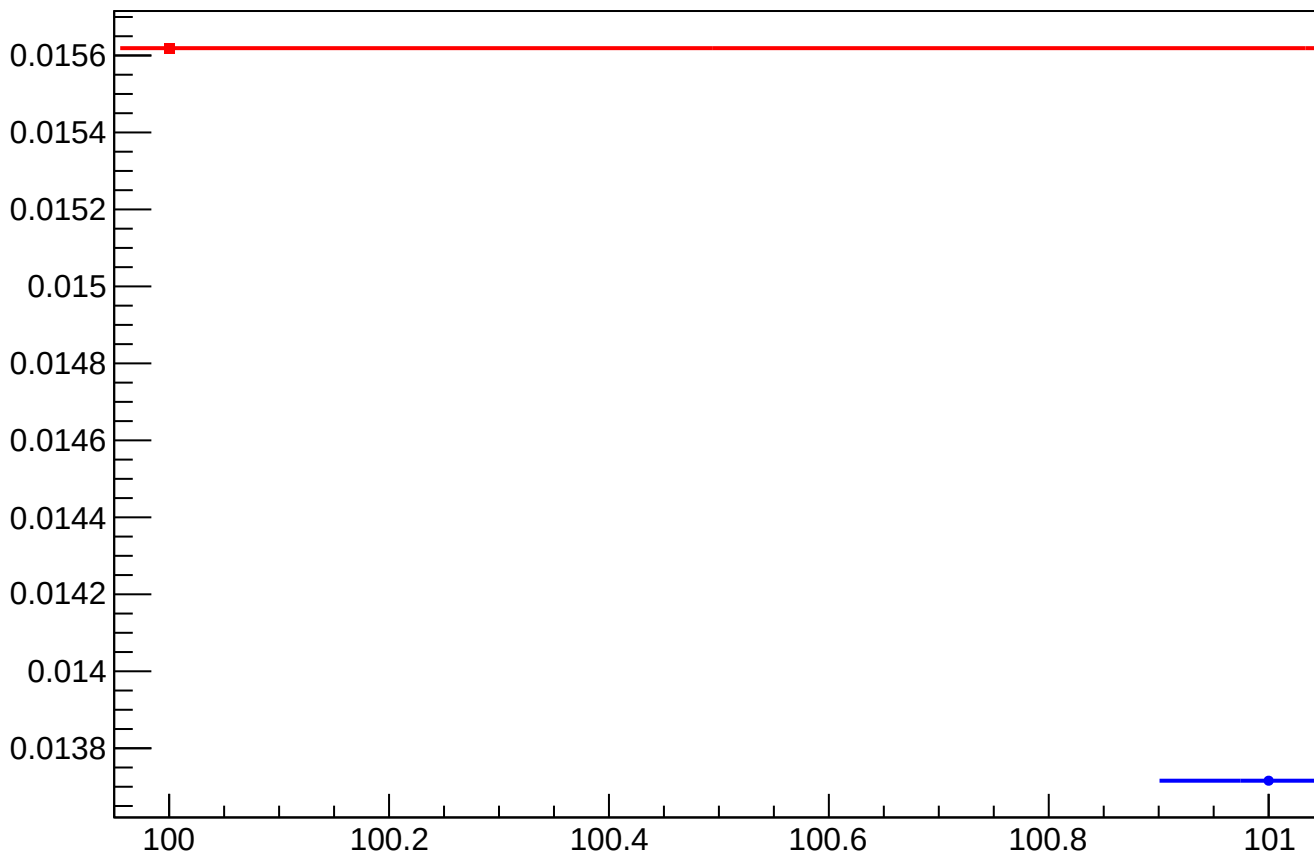
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8983.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 8983.4/1

# yield\_atr2\_mean vs Slug, Sign Corrected



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

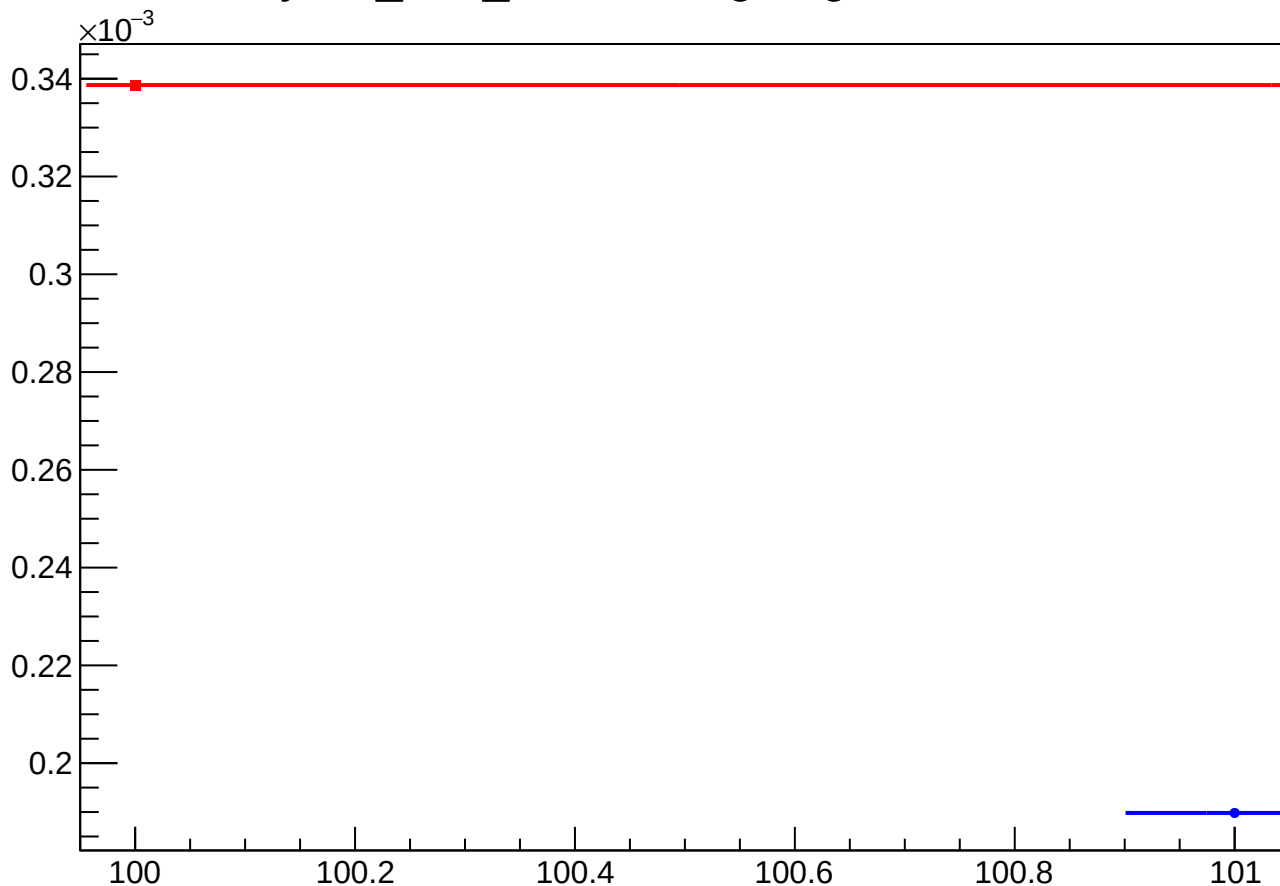
Right: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 2168686.4/1

In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 2168686.4/1

# yield\_atr2\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

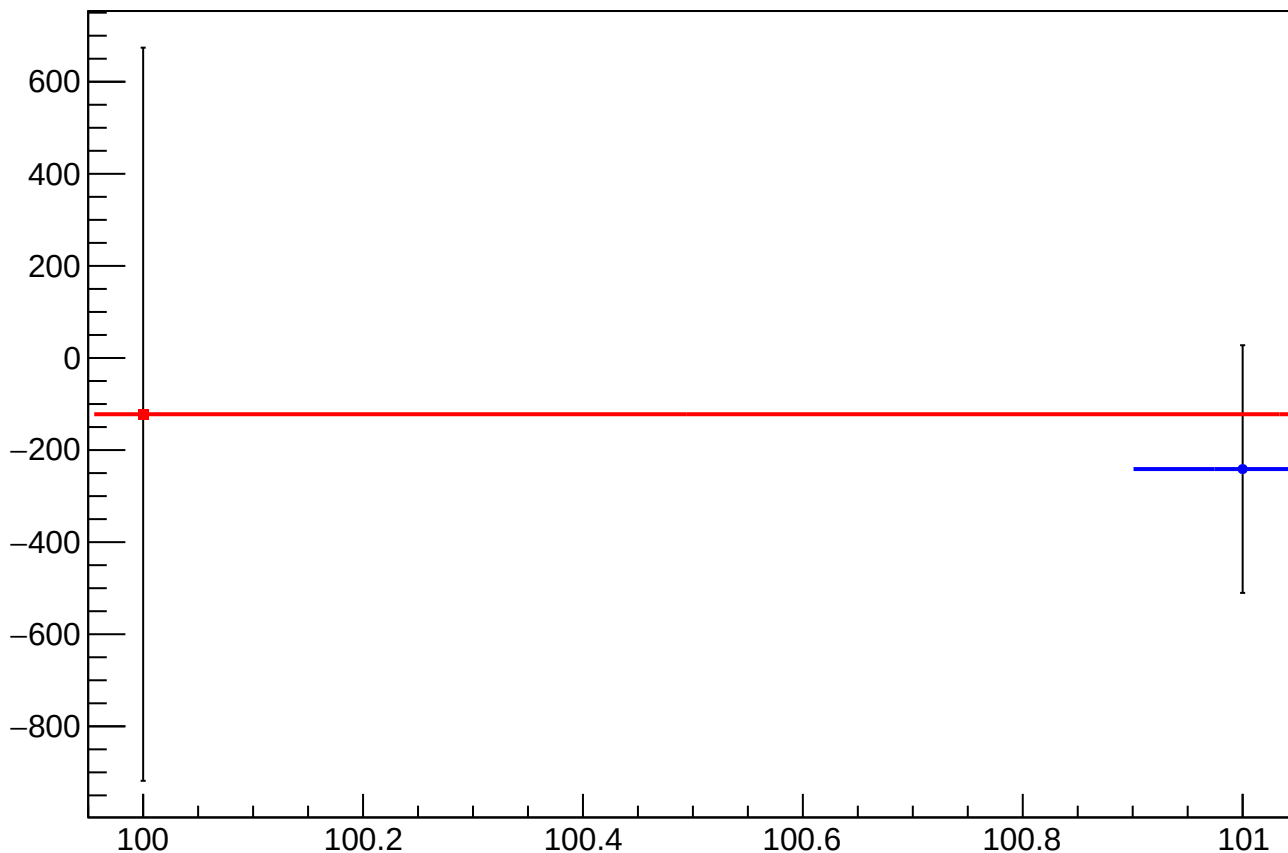
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26542.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26542.5/1

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -241.255+/-268.952  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -122.162+/-796.158  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

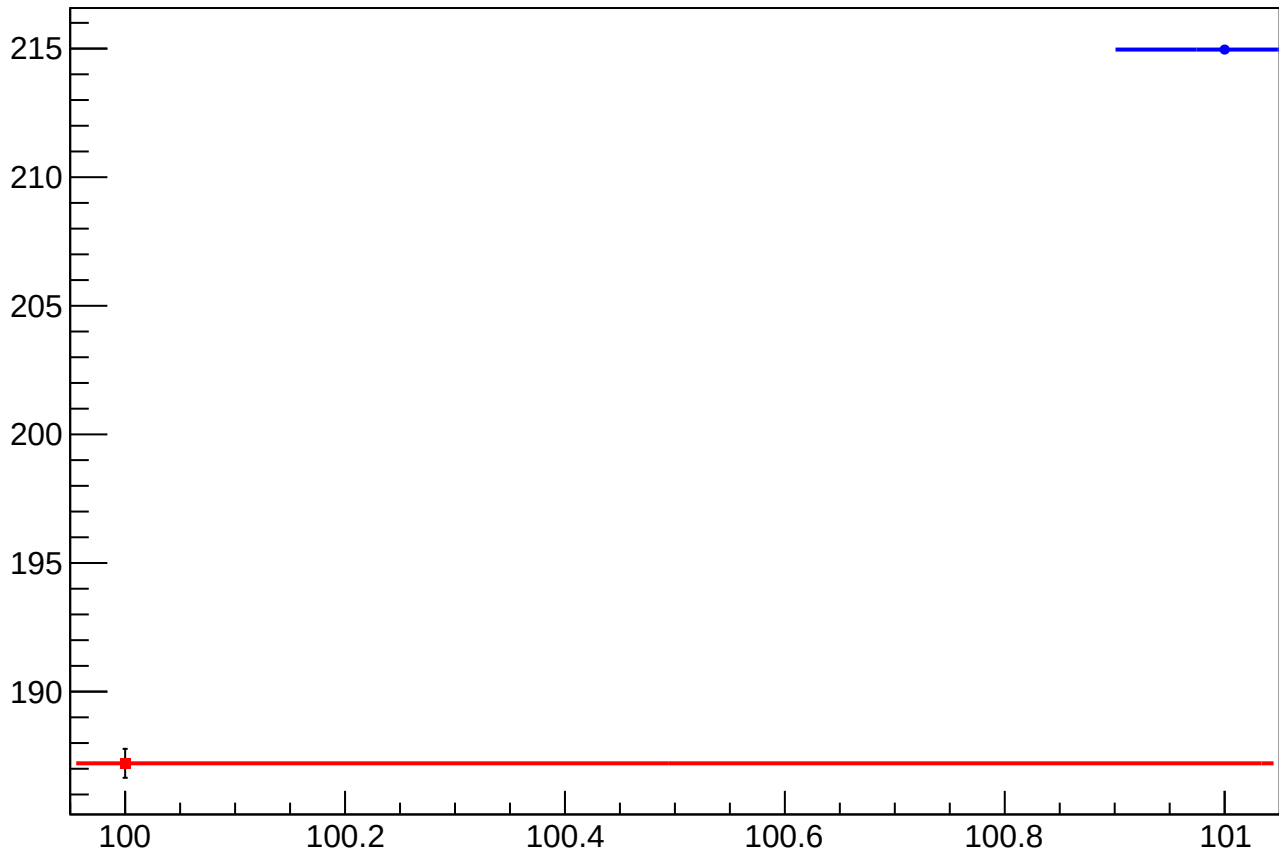
Right: -229.056+/-254.806  $\chi^2/\text{NDF}$ : 0.0/1

In: -241.255+/-268.952  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -229.056+/-254.806  $\chi^2/\text{NDF}$ : 0.0/1

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 214.962 $\pm$ 0.190  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 187.212 $\pm$ 0.563  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

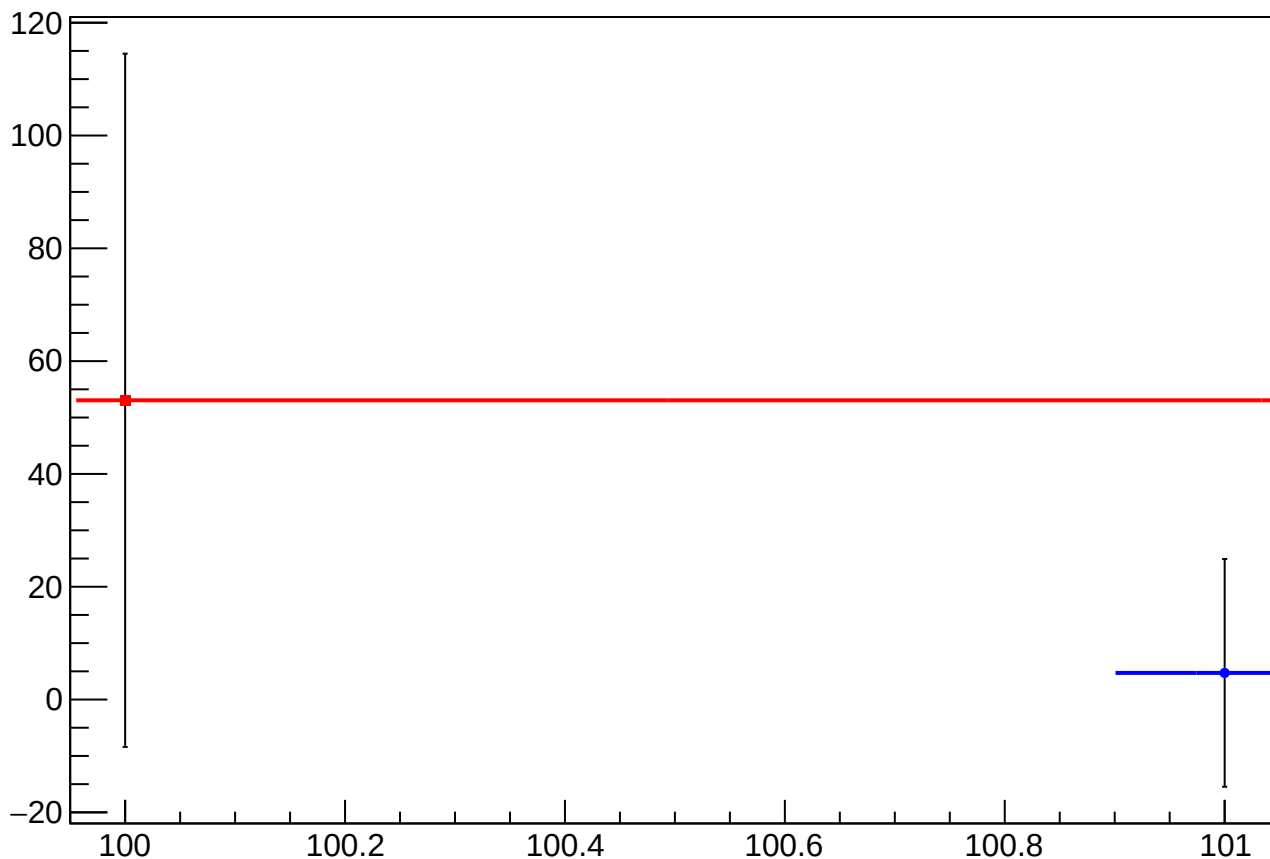
Right: 212.120 $\pm$ 0.180  $\chi^2$ /NDF: 2180.9/1

In: 214.962 $\pm$ 0.190  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 212.120 $\pm$ 0.180  $\chi^2$ /NDF: 2180.9/1

asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 4.722+/-20.192  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.054+/-61.458  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

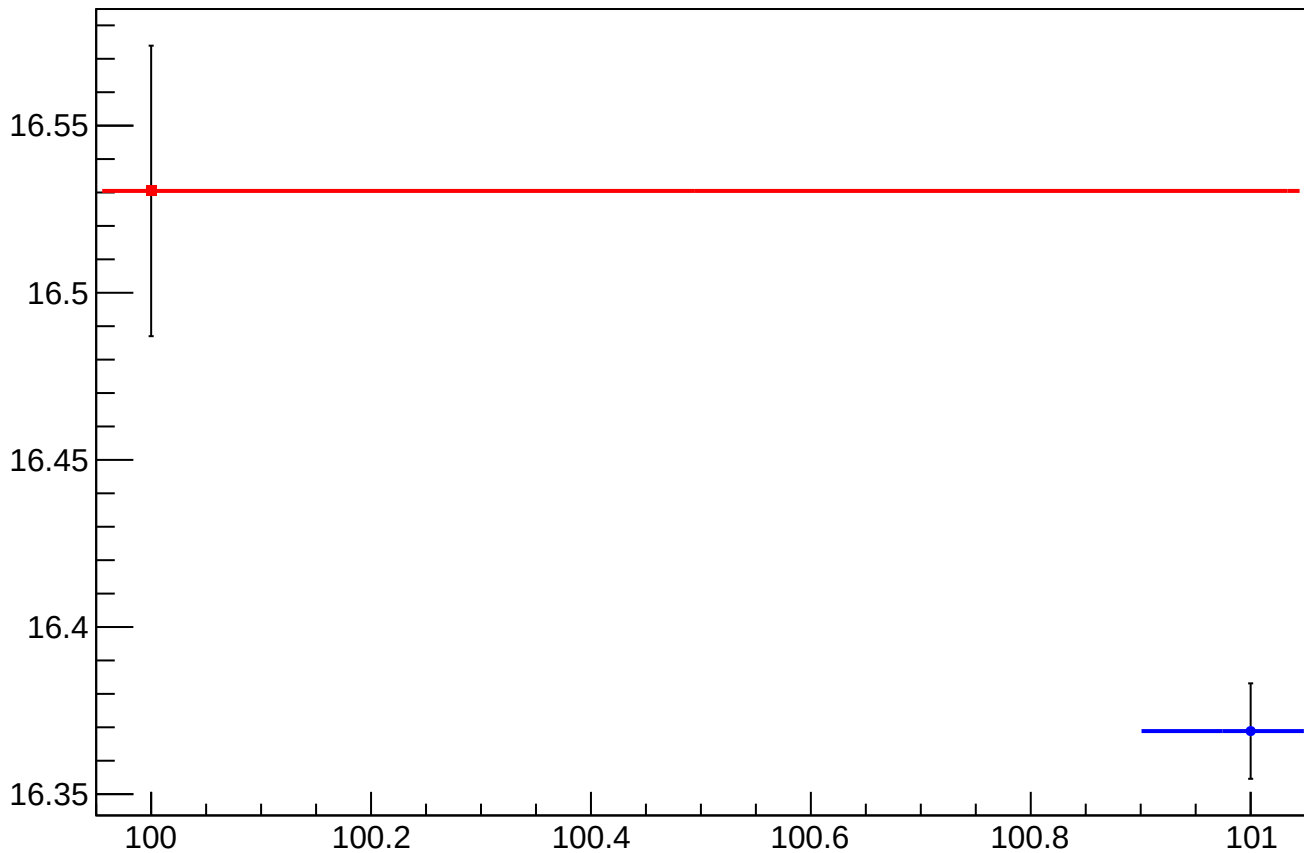
Right: 9.431+/-19.183  $\chi^2/\text{NDF}$ : 0.6/1

In: 4.722+/-20.192  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.431+/-19.183  $\chi^2/\text{NDF}$ : 0.6/1

asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 16.369 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.530 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 16.385 $\pm$ 0.014  $\chi^2$ /NDF: 12.5/1

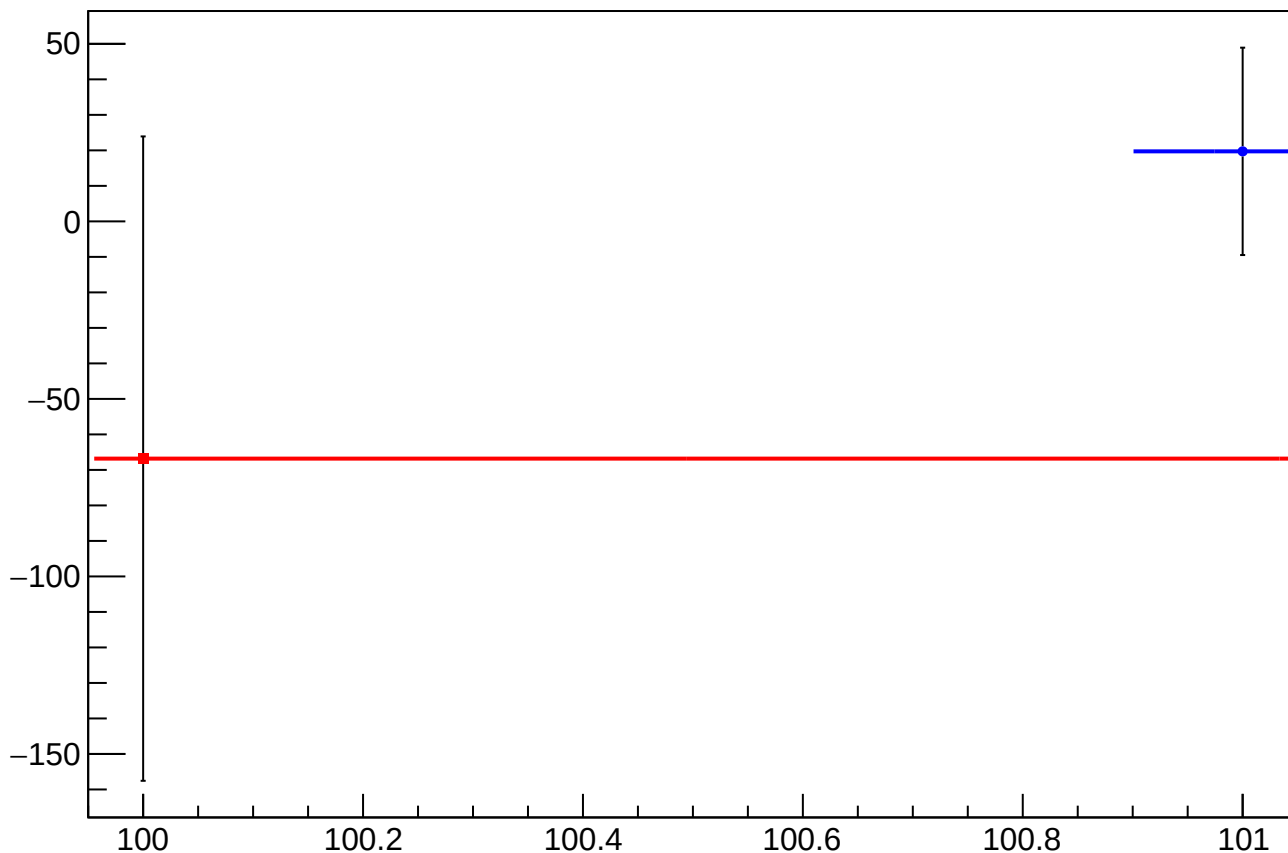
In: 16.369 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.385 $\pm$ 0.014  $\chi^2$ /NDF: 12.5/1



asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 19.722+/-29.202  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -66.817+/-90.743  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

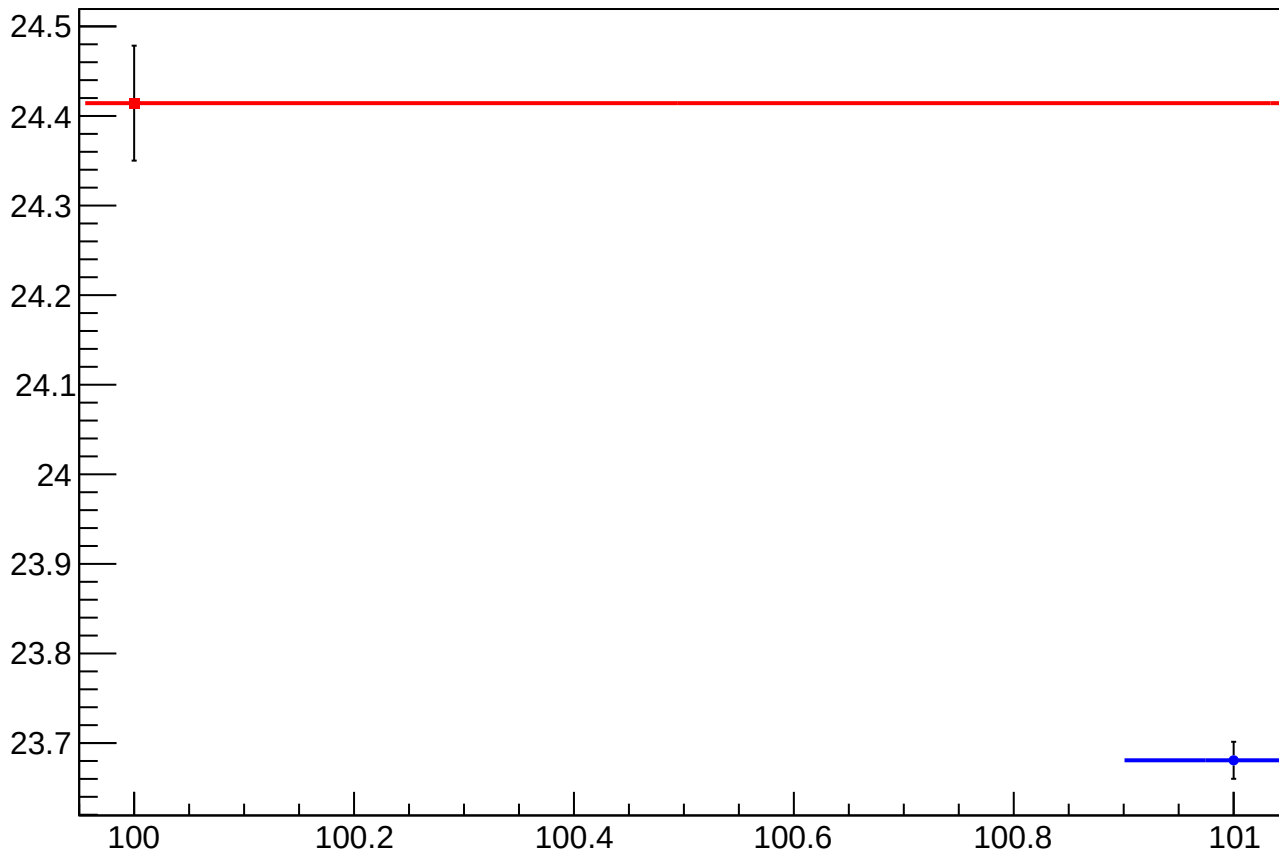
Right: 11.601+/-27.798  $\chi^2/\text{NDF}$ : 0.8/1

In: 19.722+/-29.202  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.601+/-27.798  $\chi^2/\text{NDF}$ : 0.8/1

asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 23.681 $\pm$ 0.021  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 24.414 $\pm$ 0.064  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

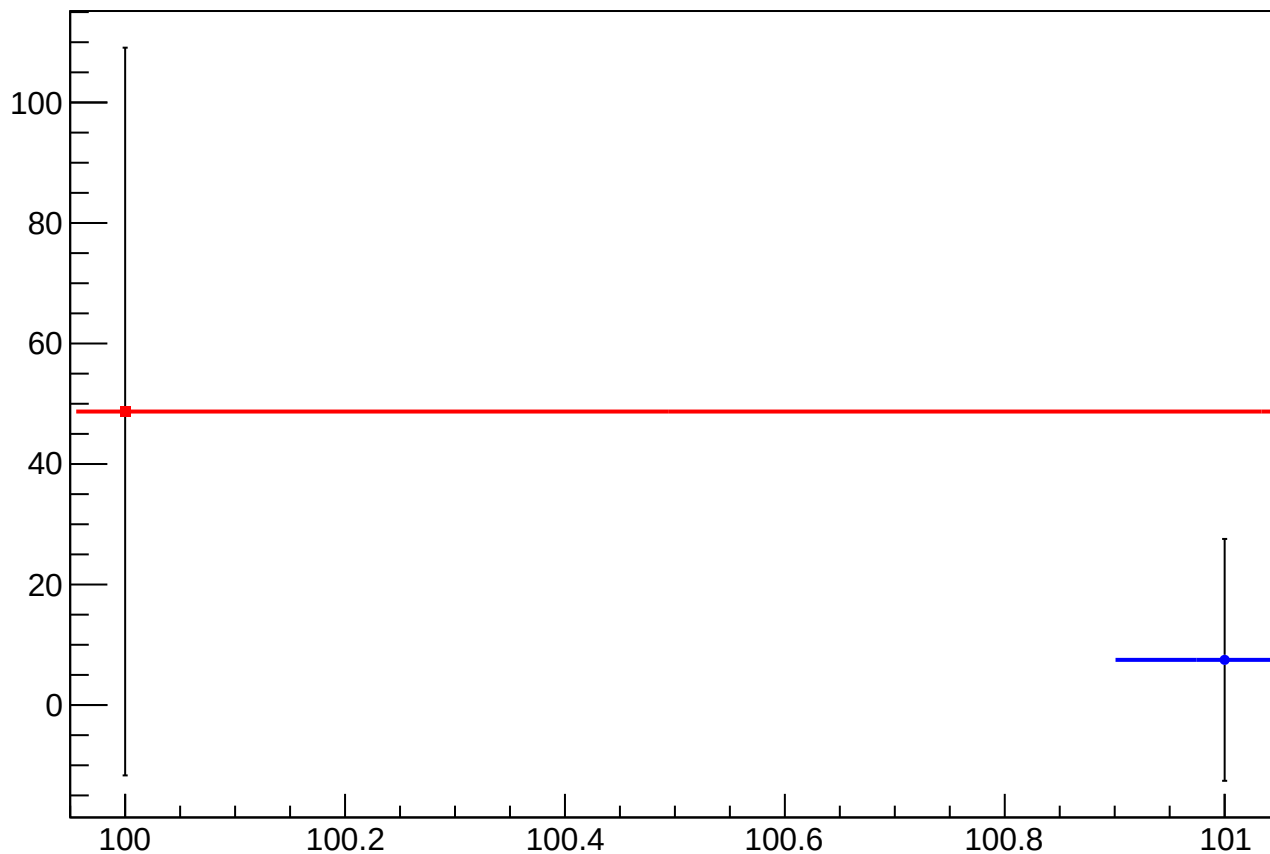
Right: 23.750 $\pm$ 0.020  $\chi^2$ /NDF: 118.4/1

In: 23.681 $\pm$ 0.021  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 23.750 $\pm$ 0.020  $\chi^2$ /NDF: 118.4/1

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 7.497+/-20.069  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.709+/-60.387  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

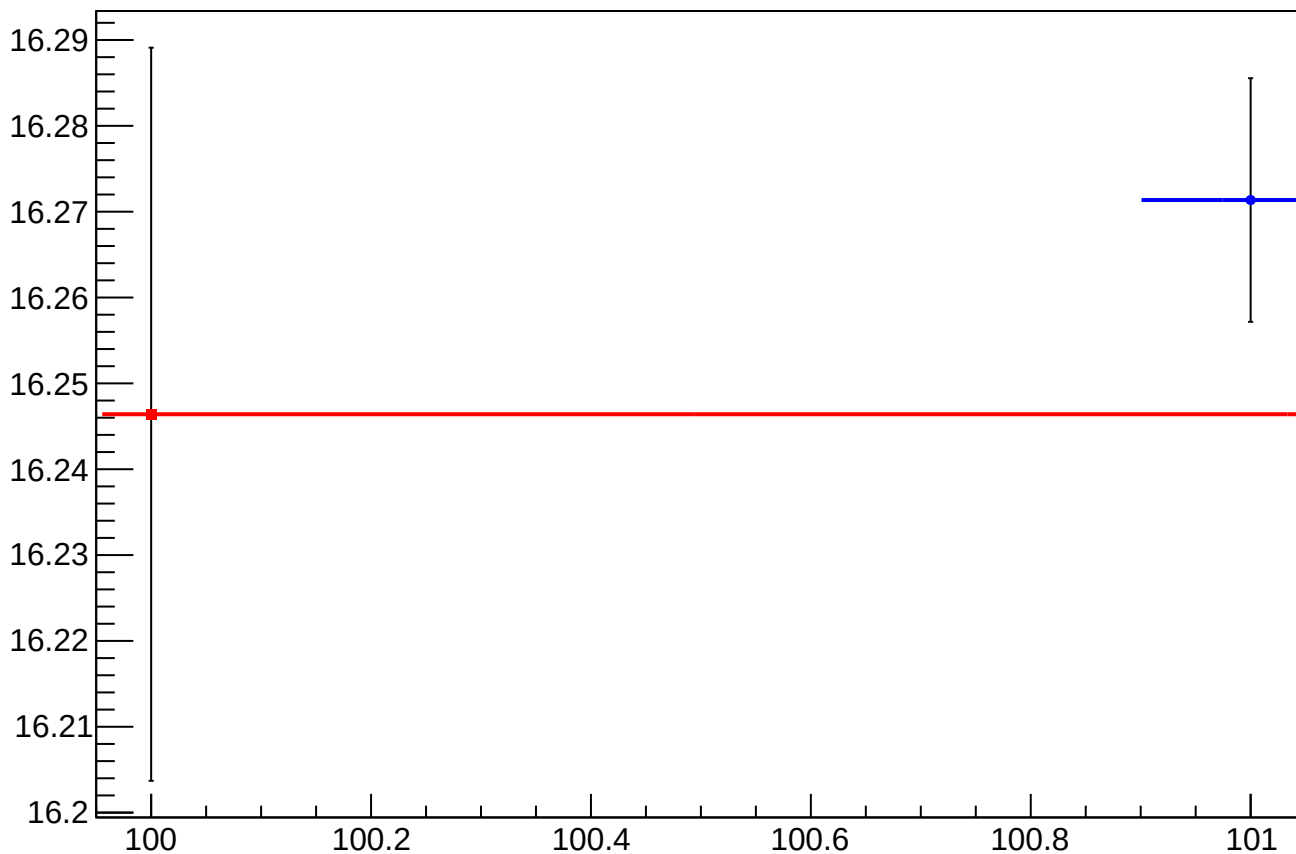
Right: 11.596+/-19.045  $\chi^2/\text{NDF}$ : 0.4/1

In: 7.497+/-20.069  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.596+/-19.045  $\chi^2/\text{NDF}$ : 0.4/1

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 16.271 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 16.246 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

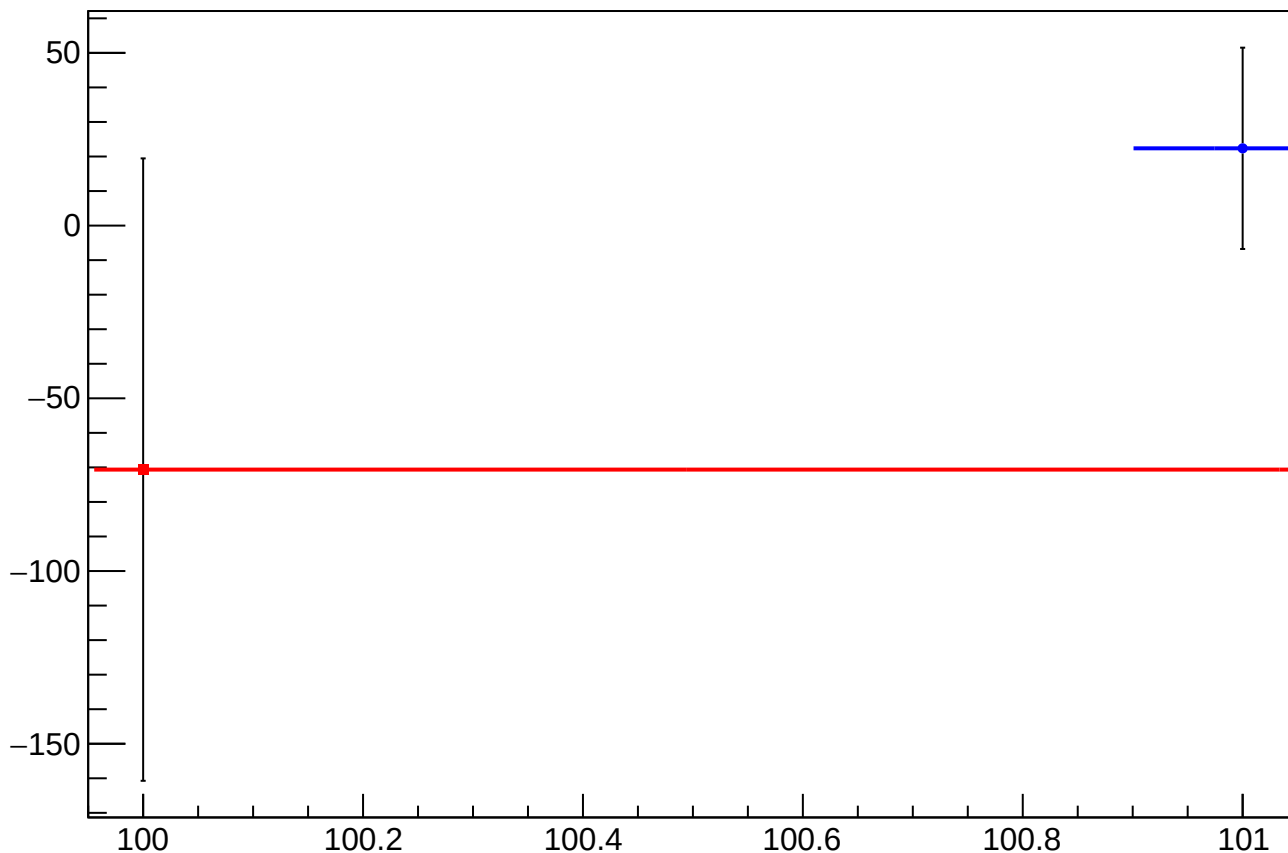
Right: 16.269 $\pm$ 0.013  $\chi^2$ /NDF: 0.3/1

In: 16.271 $\pm$ 0.014  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 16.269 $\pm$ 0.013  $\chi^2$ /NDF: 0.3/1

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 22.369+/-29.139  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -70.635+/-90.089  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

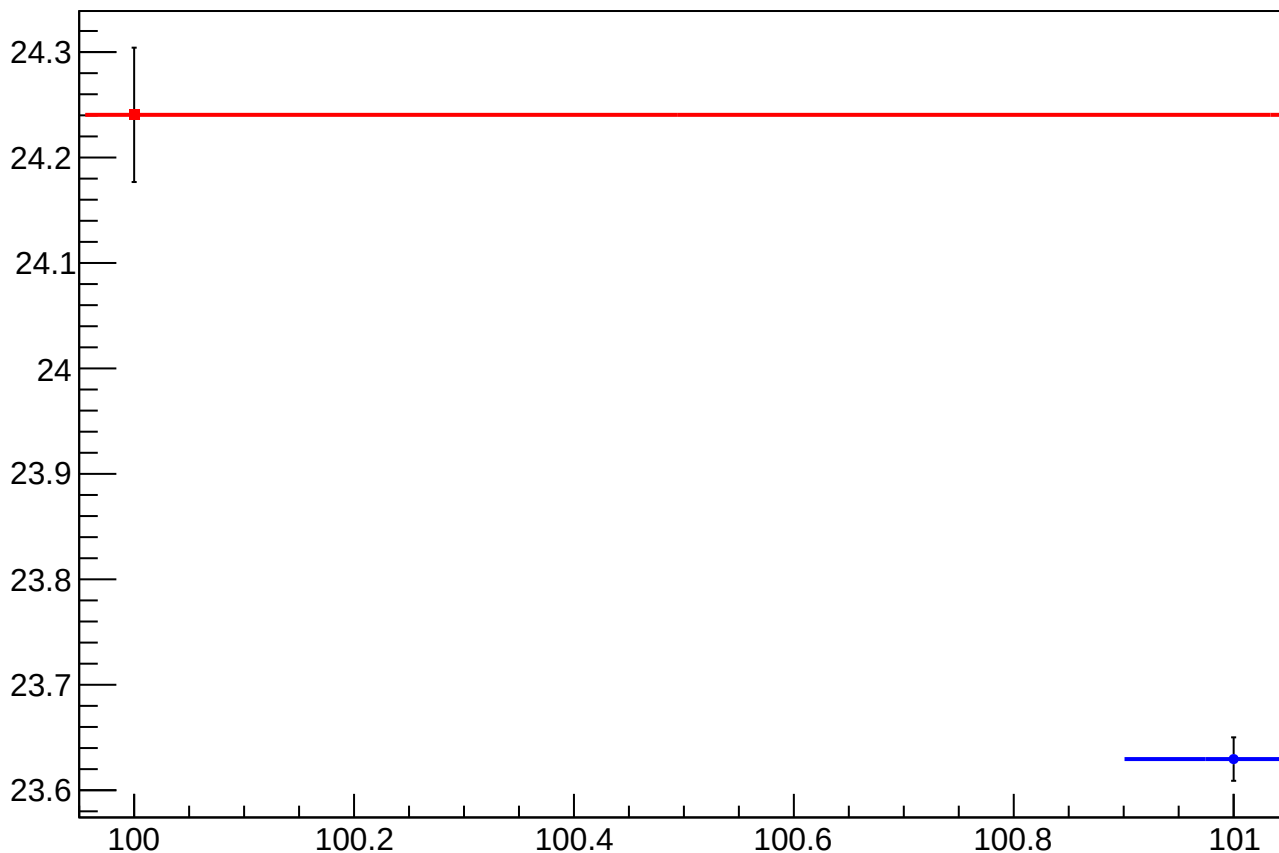
Right: 13.561+/-27.725  $\chi^2/\text{NDF}$ : 1.0/1

In: 22.369+/-29.139  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.561+/-27.725  $\chi^2/\text{NDF}$ : 1.0/1

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 23.630 $\pm$ 0.021  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 24.240 $\pm$ 0.064  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

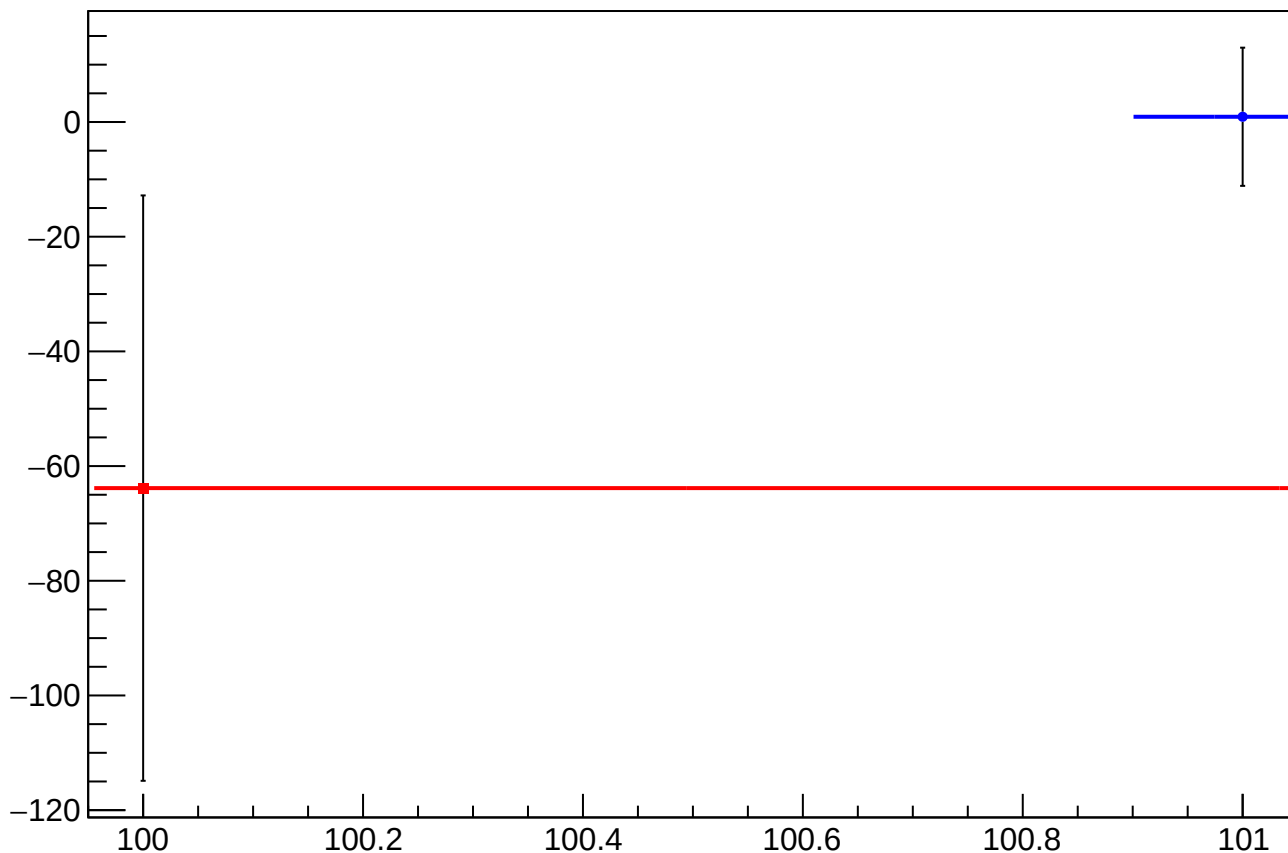
Right: 23.687 $\pm$ 0.020  $\chi^2$ /NDF: 83.3/1

In: 23.630 $\pm$ 0.021  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.687 $\pm$ 0.020  $\chi^2$ /NDF: 83.3/1

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: 0.914+/-12.049  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -63.842+/-51.039  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

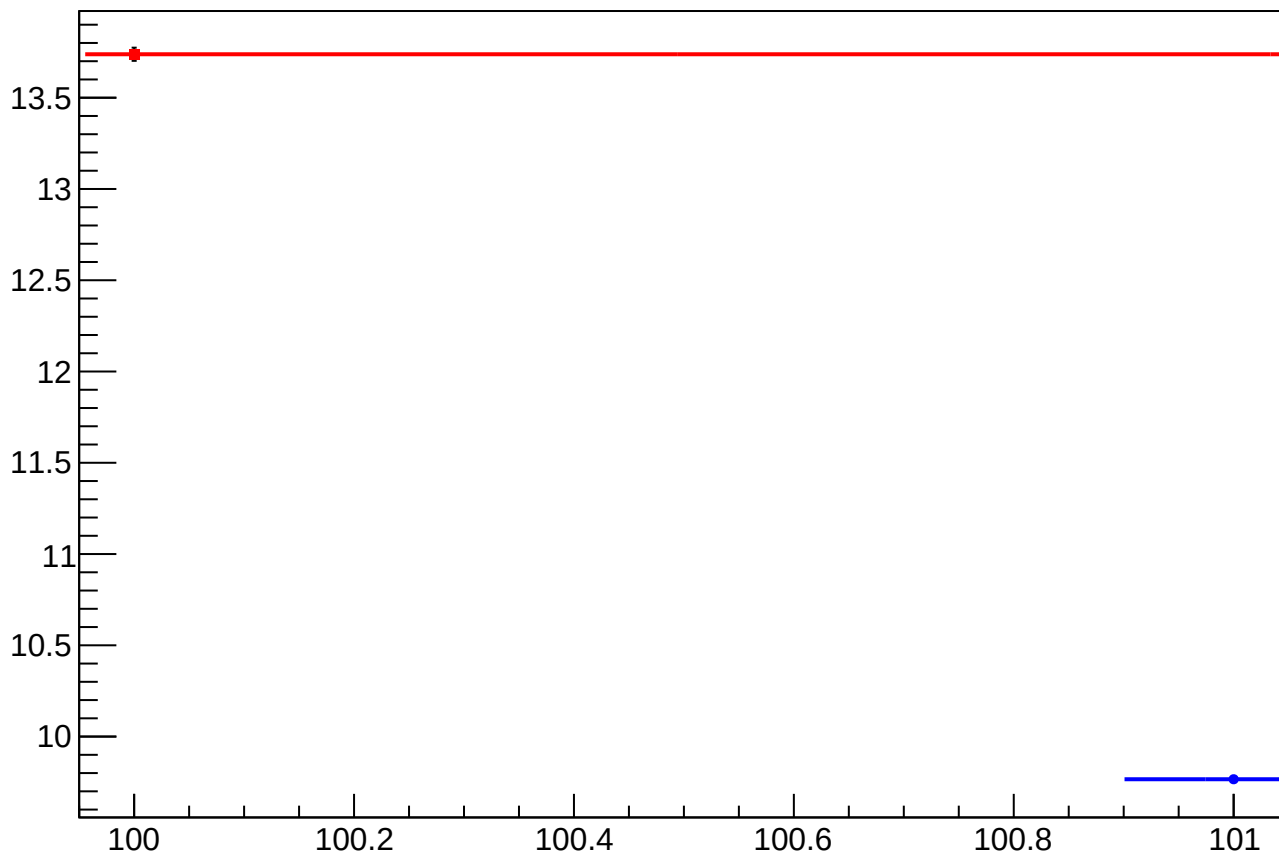
Right: -2.504+/-11.726  $\chi^2/\text{NDF}$ : 1.5/1

In: 0.914+/-12.049  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.504+/-11.726  $\chi^2/\text{NDF}$ : 1.5/1

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 9.766+/-0.009  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 13.738+/-0.036  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 9.976+/-0.008  $\chi^2/\text{NDF}$ : 11472.7/1

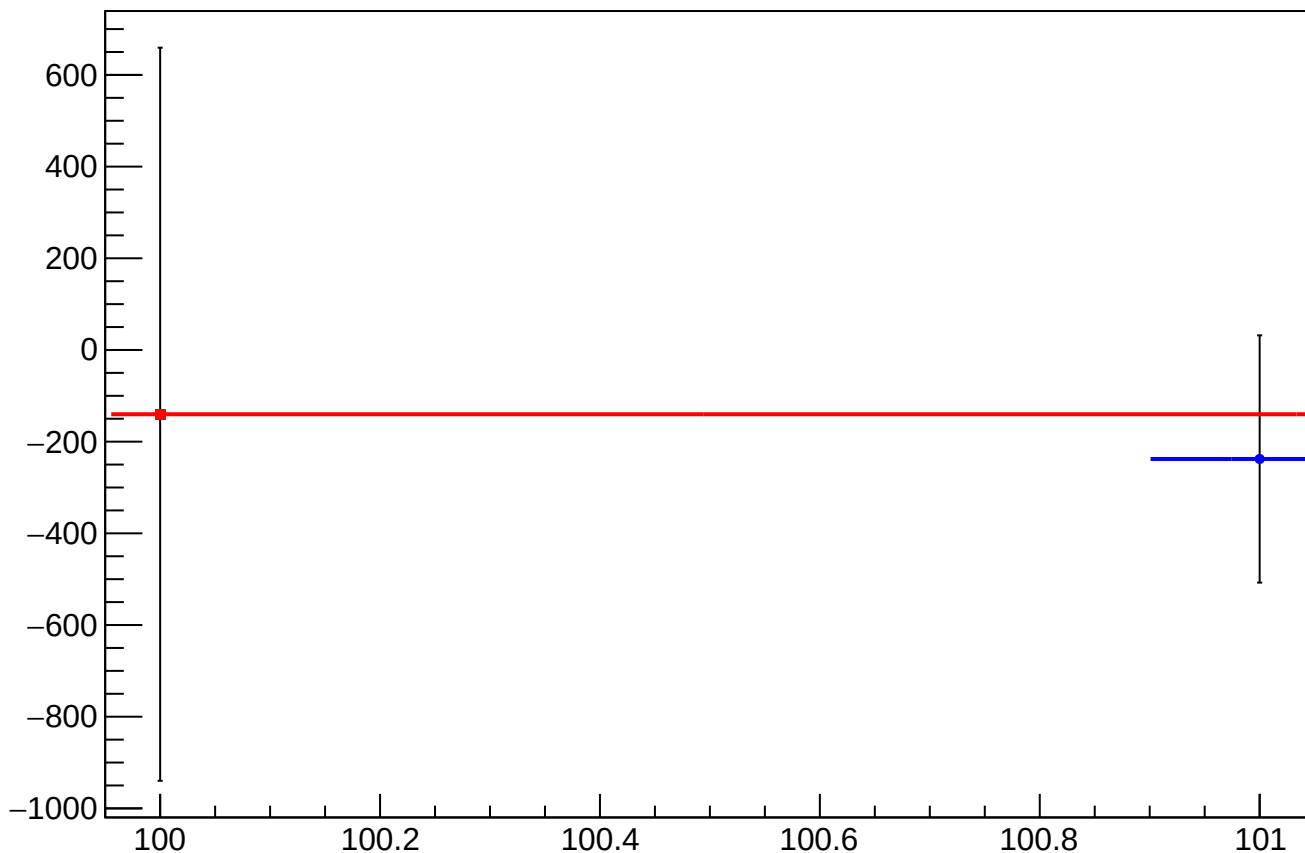
In: 9.766+/-0.009  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.976+/-0.008  $\chi^2/\text{NDF}$ : 11472.7/1



asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -237.777 $\pm$ 269.707  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -140.181 $\pm$ 799.631  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

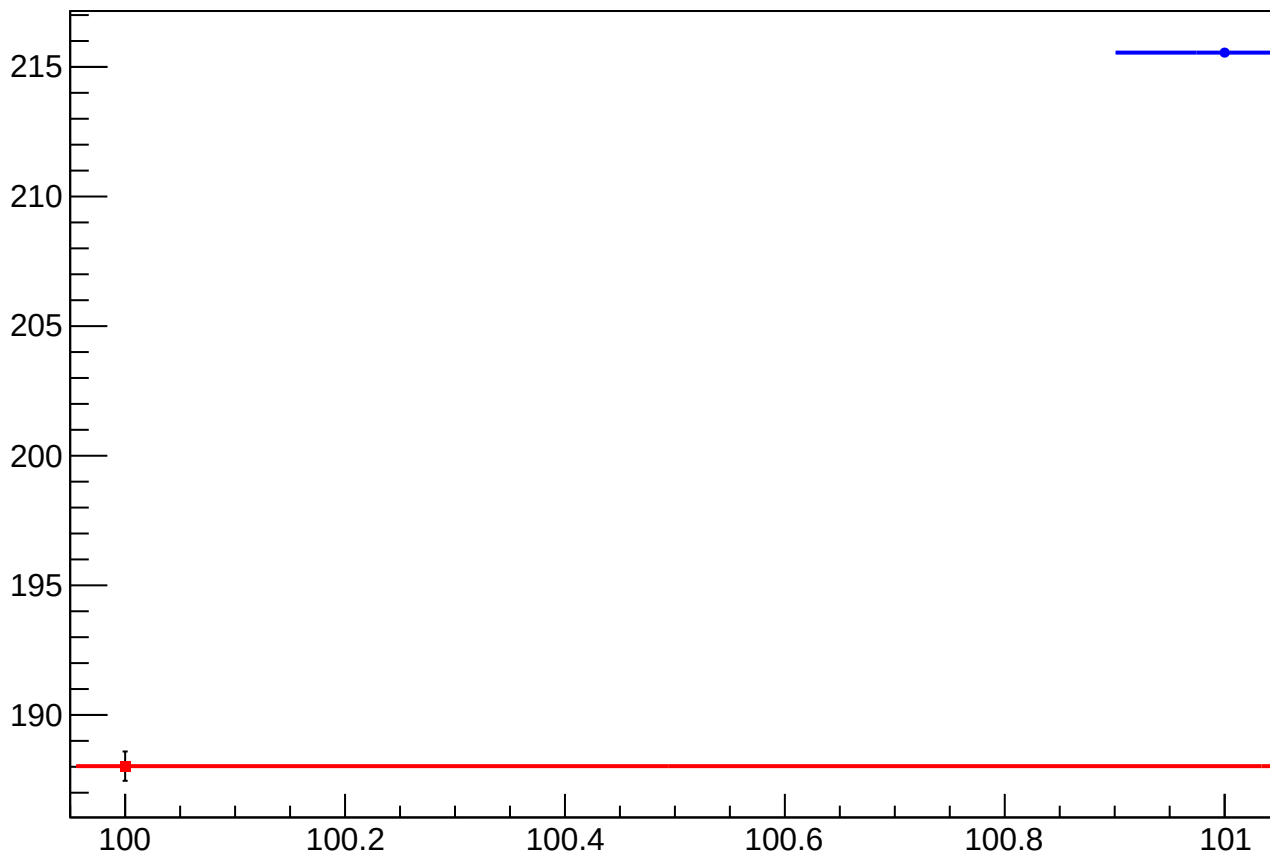
Right: -227.808 $\pm$ 255.561  $\chi^2$ /NDF: 0.0/1

In: -237.777 $\pm$ 269.707  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -227.808 $\pm$ 255.561  $\chi^2$ /NDF: 0.0/1

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 215.552 $\pm$ 0.191  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 188.025 $\pm$ 0.565  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

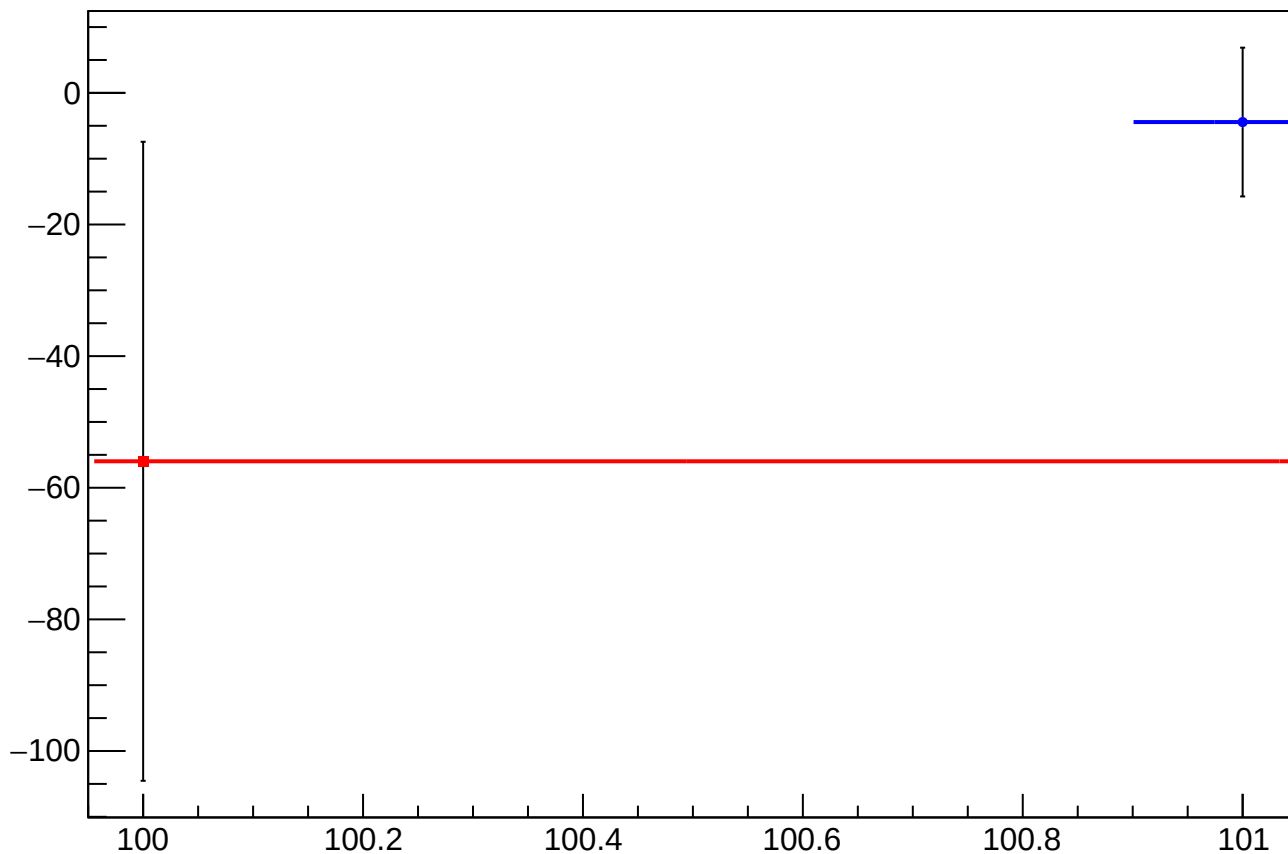
Right: 212.740 $\pm$ 0.181  $\chi^2/\text{NDF}$ : 2127.9/1

In: 215.552 $\pm$ 0.191  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 212.740 $\pm$ 0.181  $\chi^2/\text{NDF}$ : 2127.9/1

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -4.432 $\pm$ 11.302  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -55.979 $\pm$ 48.549  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

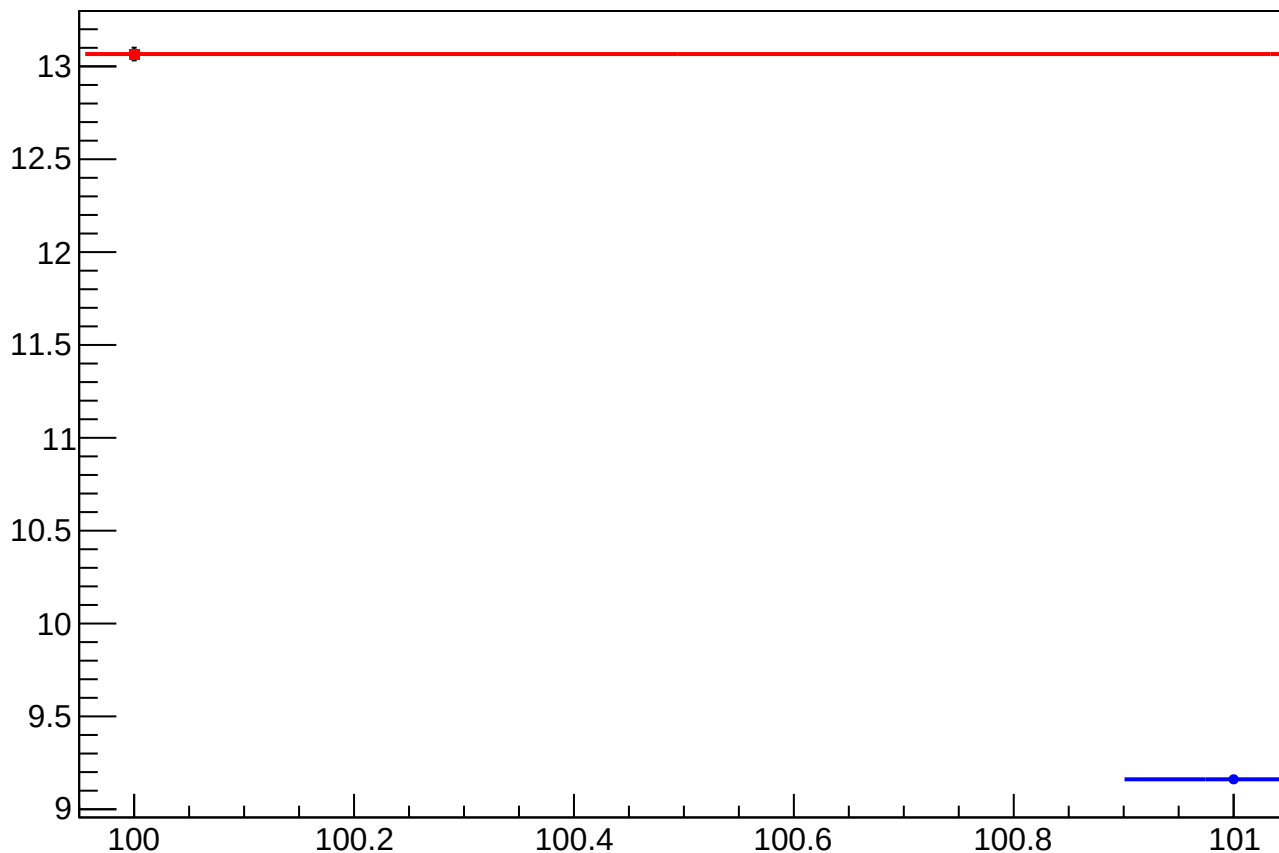
Right: -7.082 $\pm$ 11.008  $\chi^2$ /NDF: 1.1/1

In: -4.432 $\pm$ 11.302  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -7.082 $\pm$ 11.008  $\chi^2$ /NDF: 1.1/1

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 9.161 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.066 $\pm$ 0.034  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

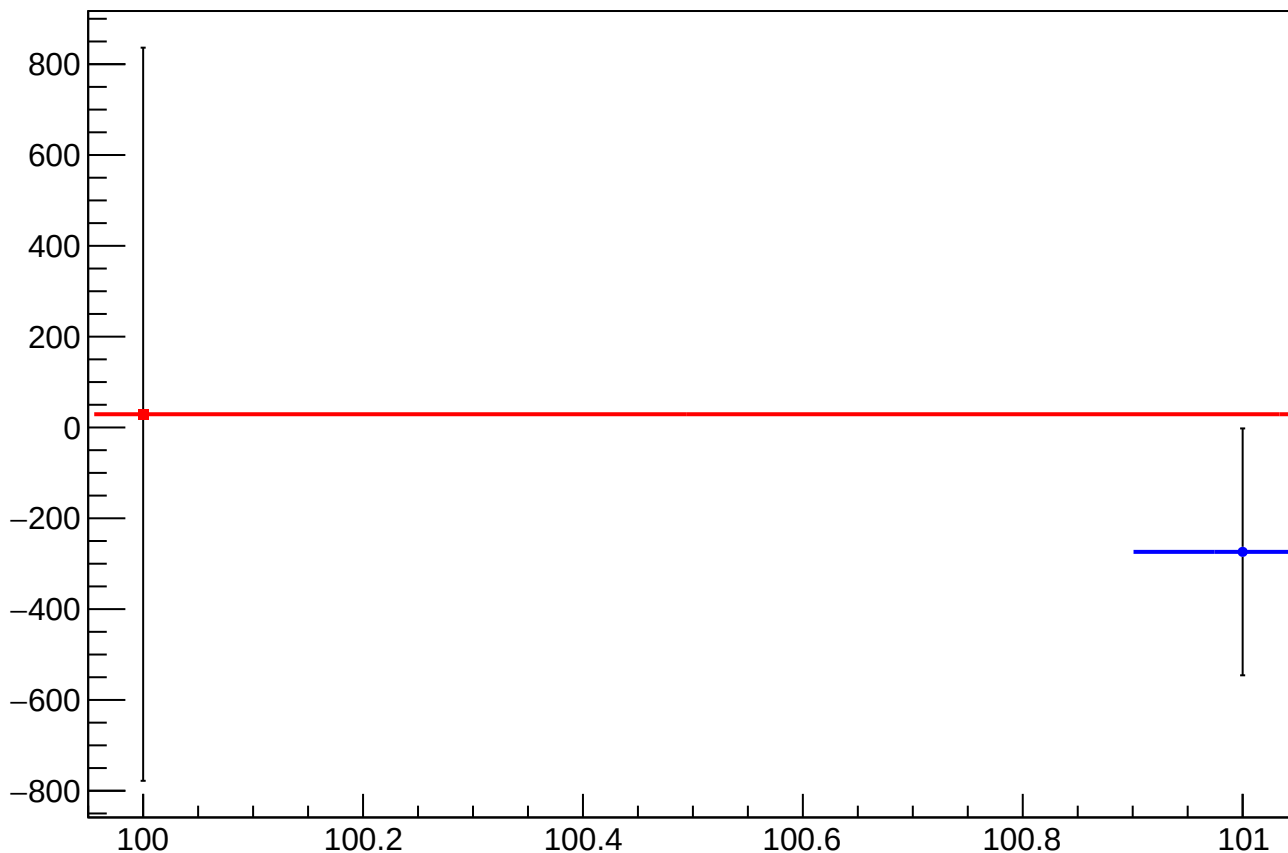
Right: 9.362 $\pm$ 0.008  $\chi^2$ /NDF: 12275.4/1

In: 9.161 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.362 $\pm$ 0.008  $\chi^2$ /NDF: 12275.4/1

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -273.924+/-271.829  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.160+/-807.208  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

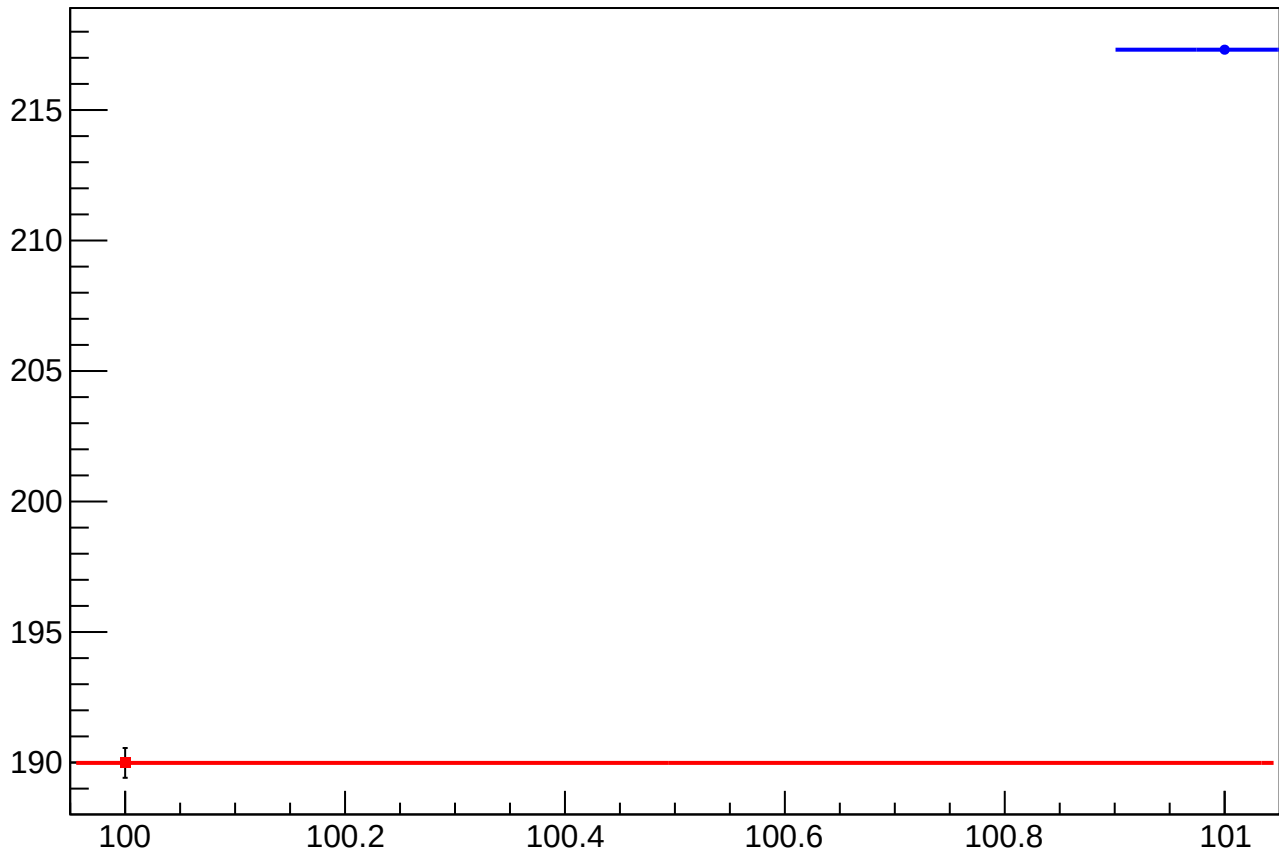
Right: -243.055+/-257.614  $\chi^2/\text{NDF}$ : 0.1/1

In: -273.924+/-271.829  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -243.055+/-257.614  $\chi^2/\text{NDF}$ : 0.1/1

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 217.311 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 189.985 $\pm$ 0.571  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

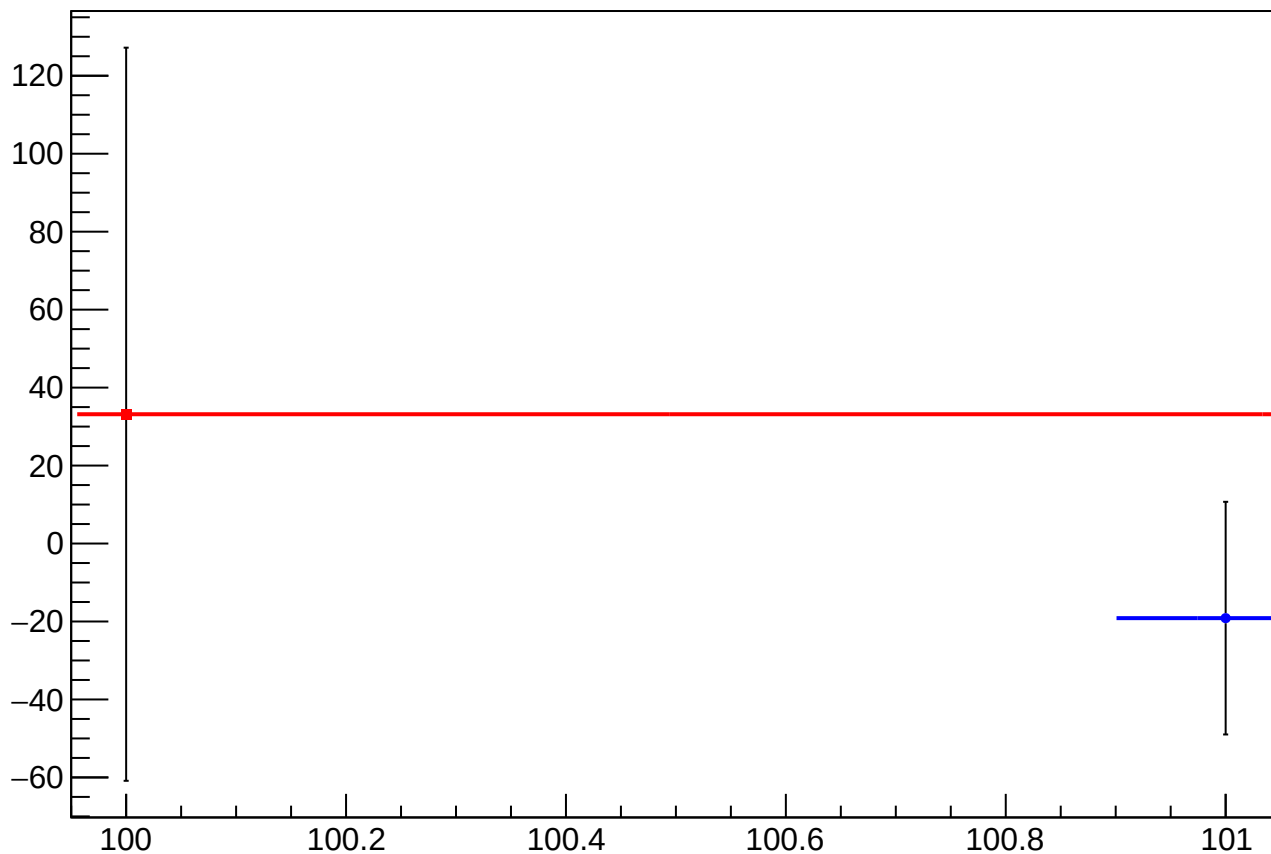
Right: 214.528 $\pm$ 0.182  $\chi^2$ /NDF: 2058.5/1

In: 217.311 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 214.528 $\pm$ 0.182  $\chi^2$ /NDF: 2058.5/1

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -19.139 $\pm$ 29.841  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 33.168 $\pm$ 94.034  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

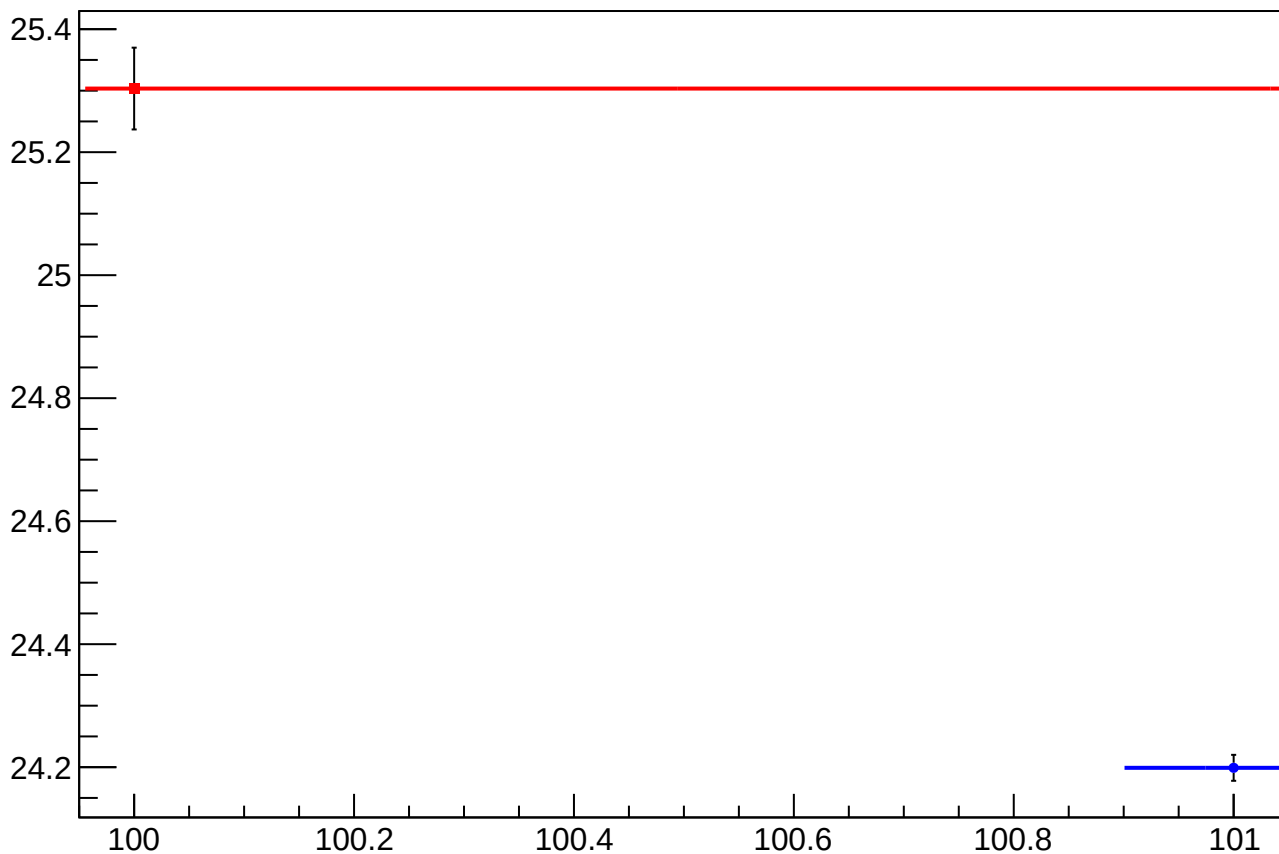
Right: -14.353 $\pm$ 28.443  $\chi^2$ /NDF: 0.3/1

In: -19.139 $\pm$ 29.841  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -14.353 $\pm$ 28.443  $\chi^2$ /NDF: 0.3/1

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 24.199 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.303 $\pm$ 0.066  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 24.300 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 250.7/1

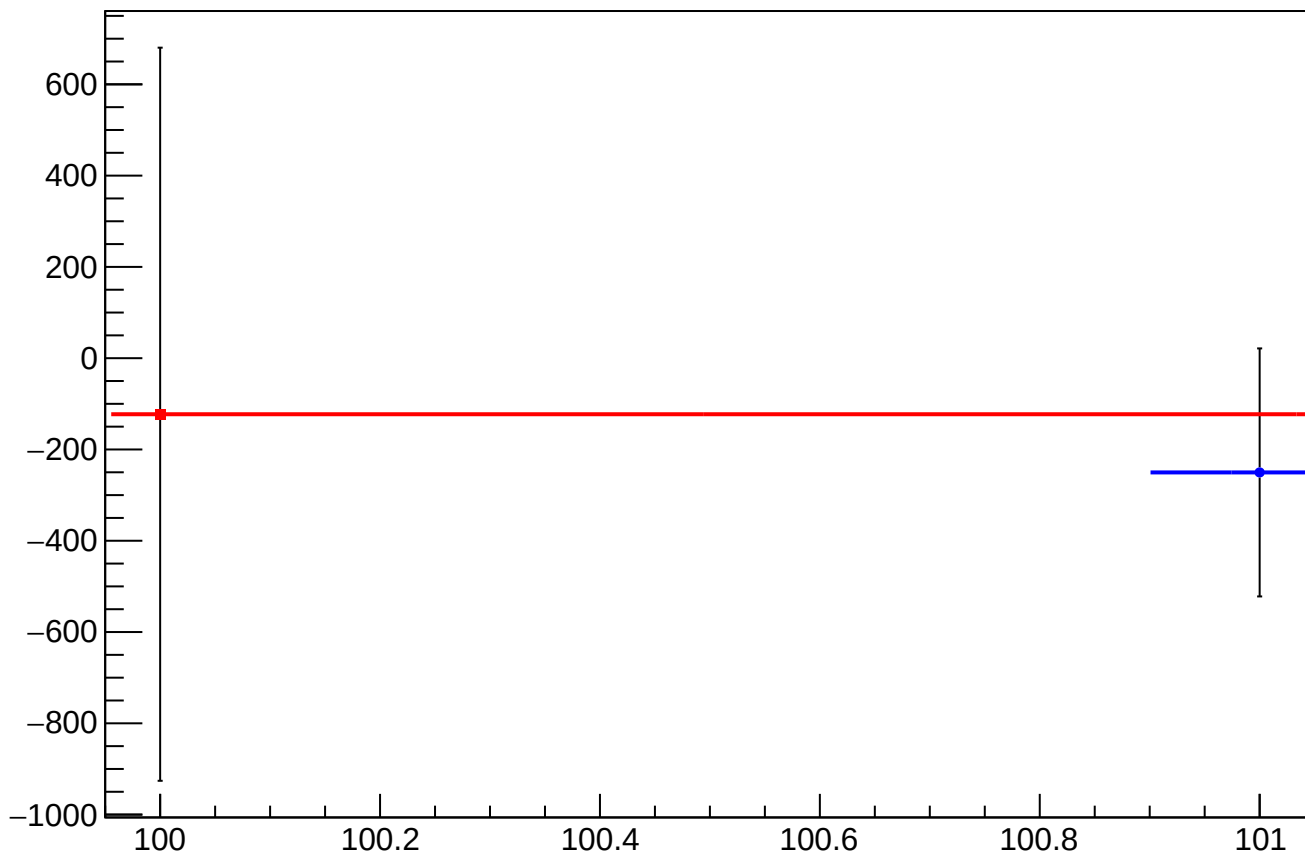
In: 24.199 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.300 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 250.7/1



asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -250.294 $\pm$ 271.719  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -122.799 $\pm$ 803.146  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

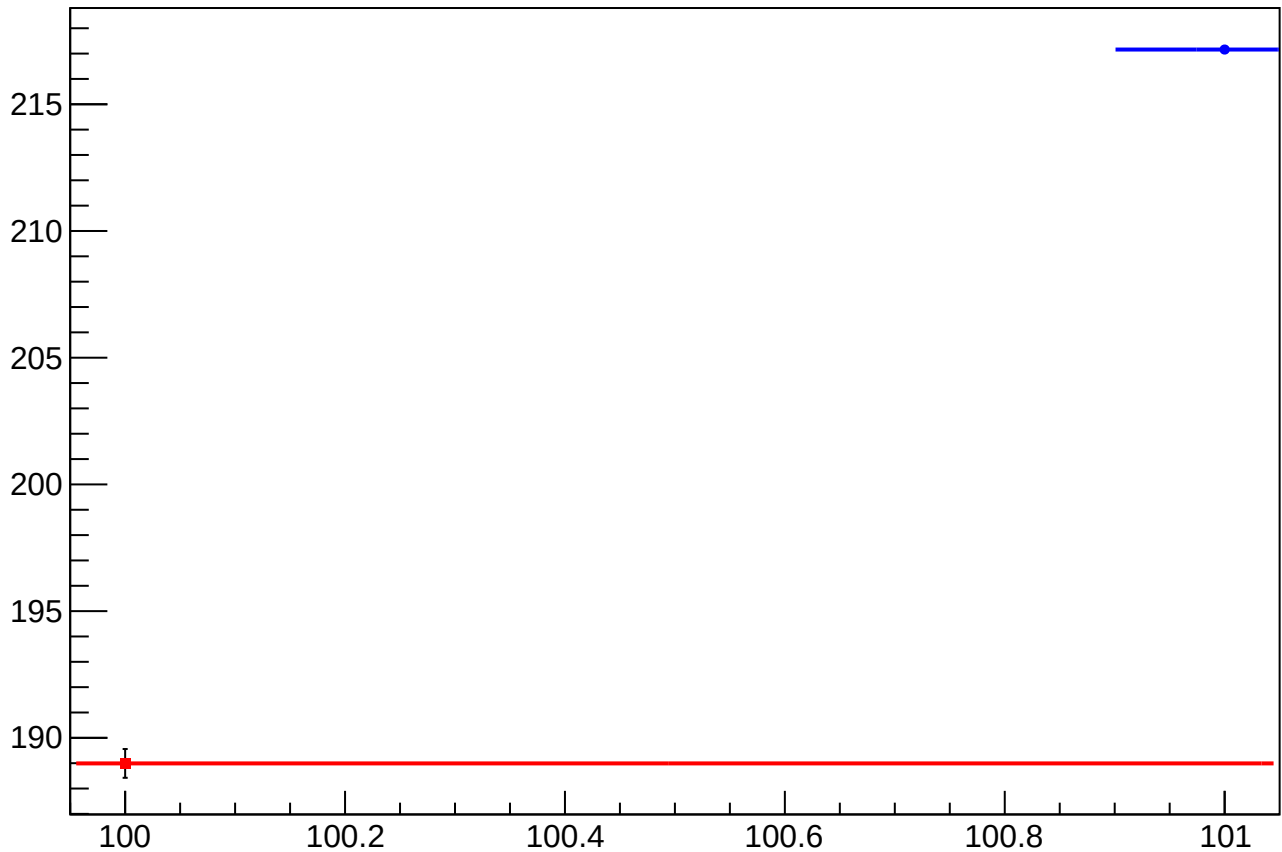
Right: -237.200 $\pm$ 257.388  $\chi^2/\text{NDF}$ : 0.0/1

In: -250.294 $\pm$ 271.719  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -237.200 $\pm$ 257.388  $\chi^2/\text{NDF}$ : 0.0/1

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 217.160 $\pm$ 0.192  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 188.992 $\pm$ 0.568  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

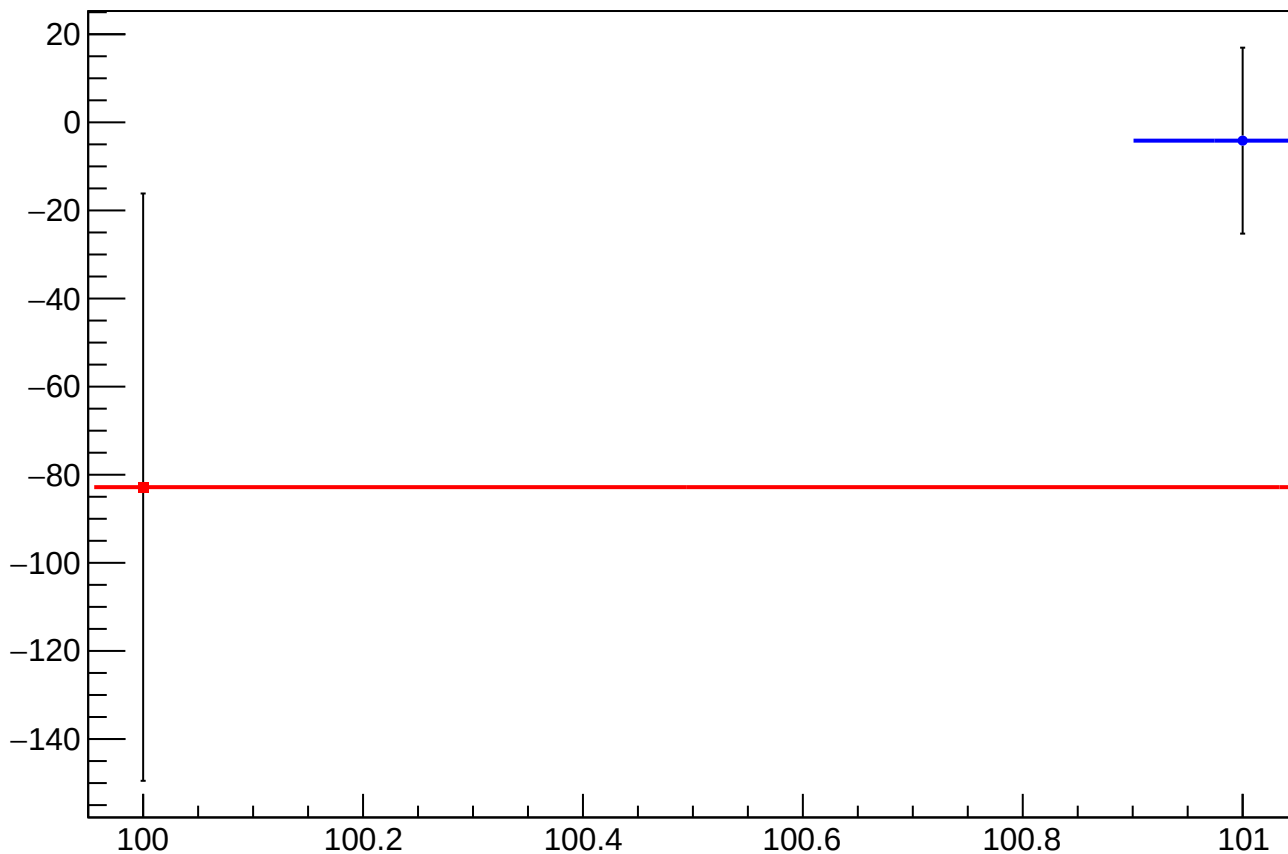
Right: 214.267 $\pm$ 0.182  $\chi^2/\text{NDF}$ : 2207.5/1

In: 217.160 $\pm$ 0.192  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 214.267 $\pm$ 0.182  $\chi^2/\text{NDF}$ : 2207.5/1

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -4.155+/-21.108  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -82.818+/-66.666  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

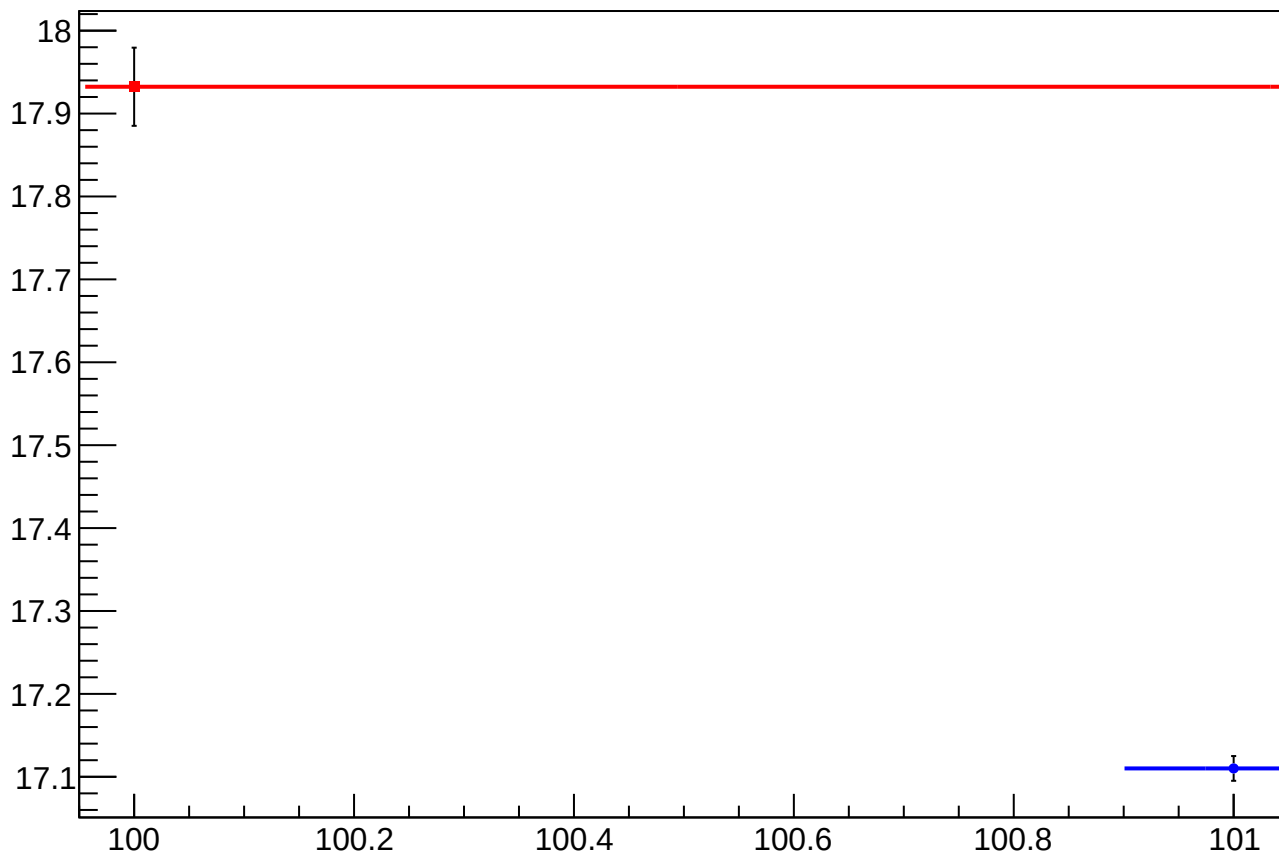
Right: -11.322+/-20.123  $\chi^2/\text{NDF}$ : 1.3/1

In: -4.155+/-21.108  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.322+/-20.123  $\chi^2/\text{NDF}$ : 1.3/1

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 17.110 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.932 $\pm$ 0.047  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

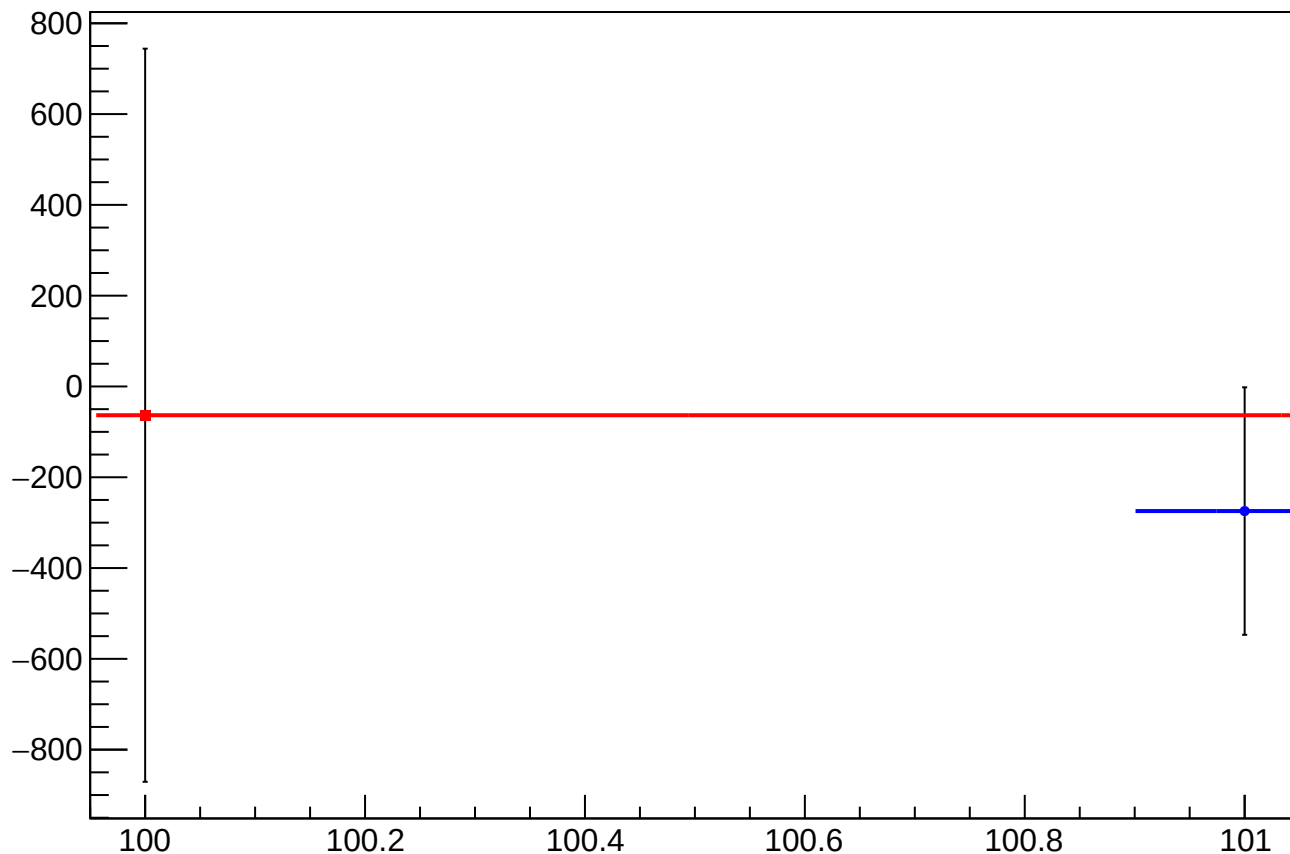
Right: 17.185 $\pm$ 0.014  $\chi^2$ /NDF: 276.5/1

In: 17.110 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.185 $\pm$ 0.014  $\chi^2$ /NDF: 276.5/1

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -274.445 $\pm$ 272.581  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -63.375 $\pm$ 807.467  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

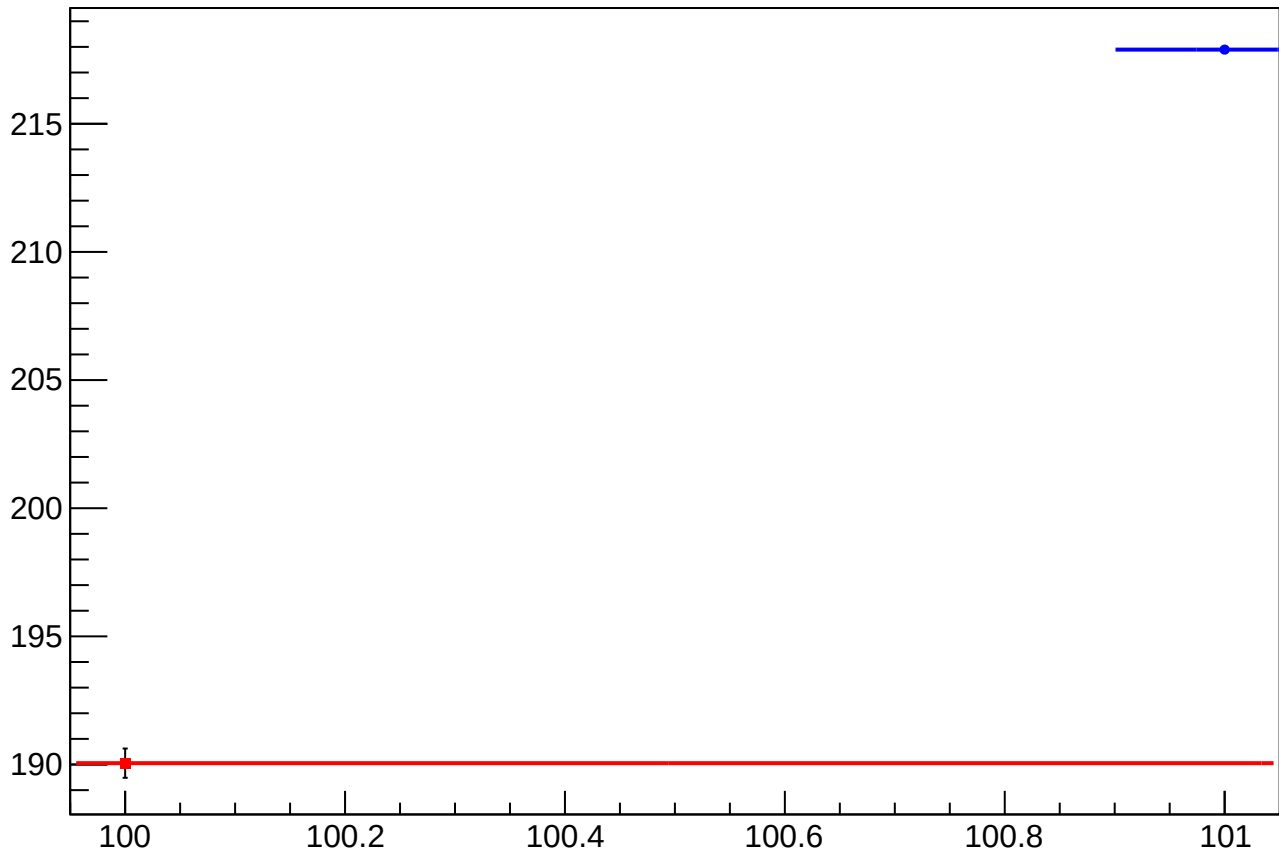
Right: -252.853 $\pm$ 258.262  $\chi^2$ /NDF: 0.1/1

In: -274.445 $\pm$ 272.581  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -252.853 $\pm$ 258.262  $\chi^2$ /NDF: 0.1/1

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 217.894 $\pm$ 0.193  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 190.053 $\pm$ 0.571  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

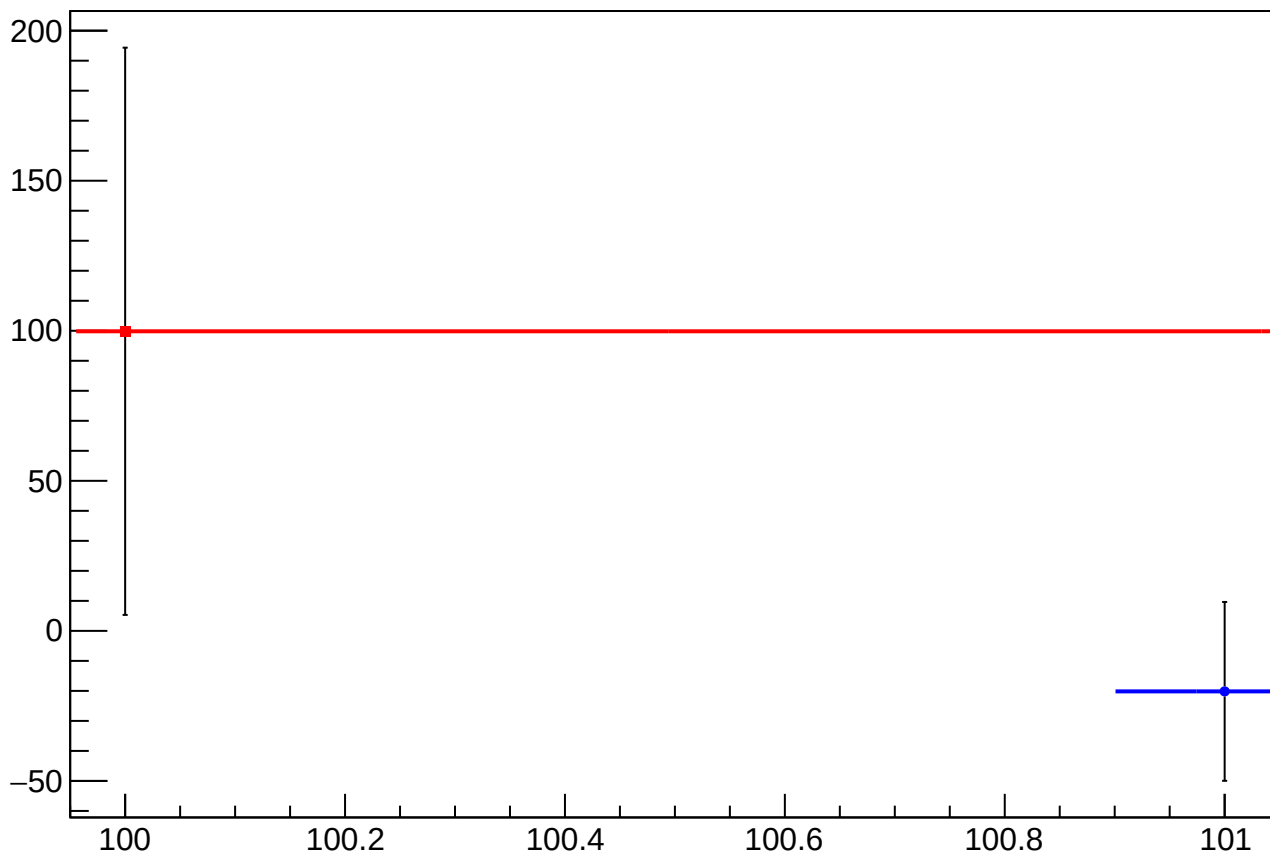
Right: 215.046 $\pm$ 0.183  $\chi^2$ /NDF: 2134.5/1

In: 217.894 $\pm$ 0.193  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 215.046 $\pm$ 0.183  $\chi^2$ /NDF: 2134.5/1

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -20.160 $\pm$ 29.796  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 99.830 $\pm$ 94.508  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

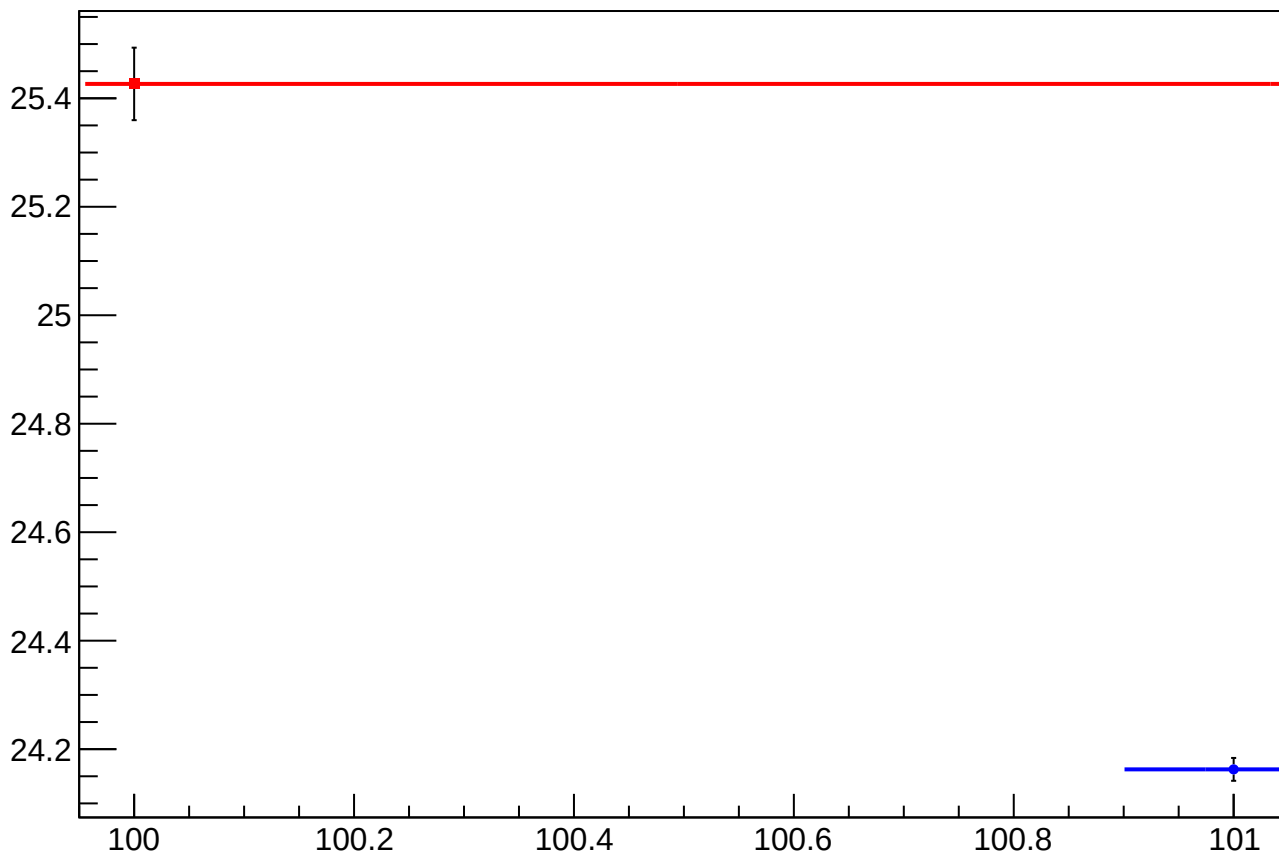
Right: -9.312 $\pm$ 28.417  $\chi^2$ /NDF: 1.5/1

In: -20.160 $\pm$ 29.796  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -9.312 $\pm$ 28.417  $\chi^2$ /NDF: 1.5/1

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 24.163 $\pm$ 0.021  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.427 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 24.277 $\pm$ 0.020  $\chi^2$ /NDF: 325.3/1

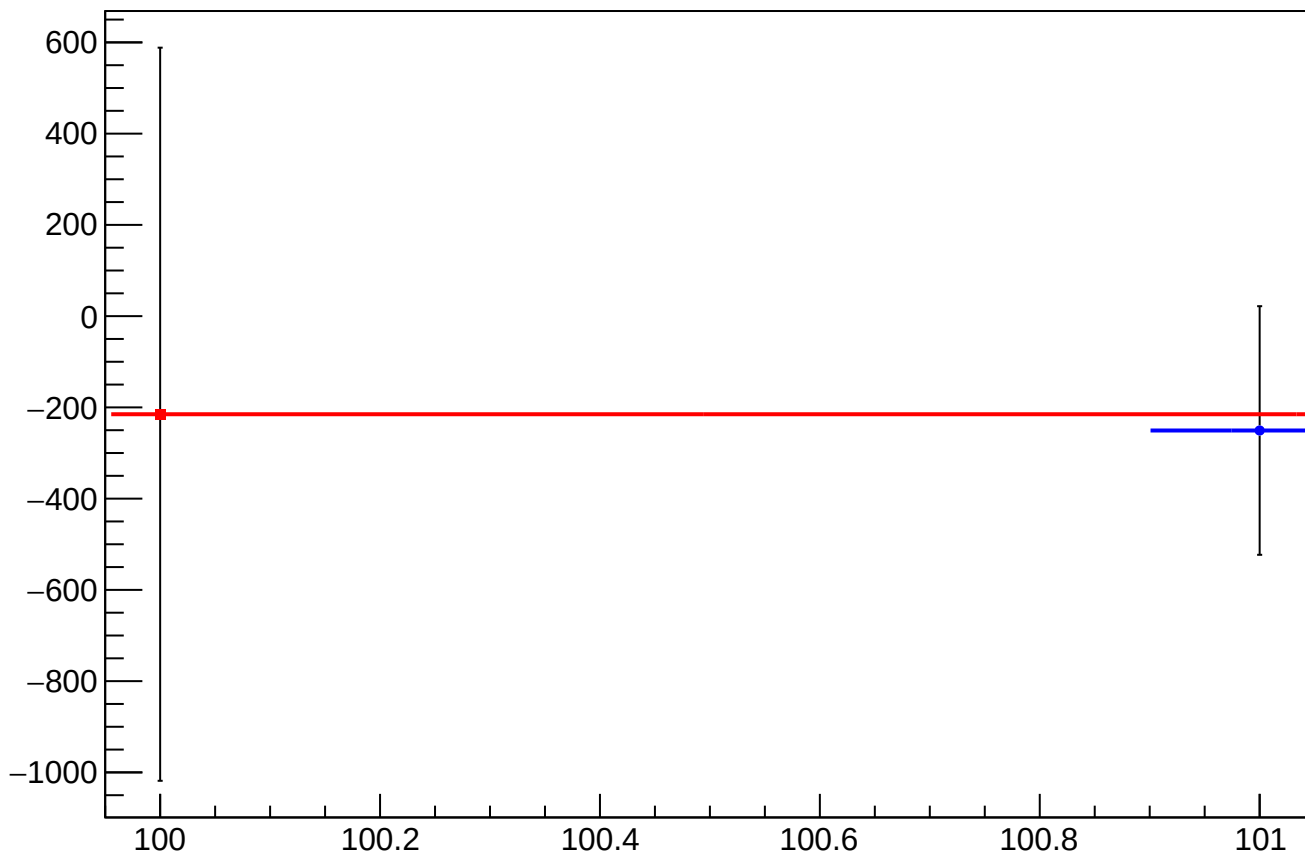
In: 24.163 $\pm$ 0.021  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 24.277 $\pm$ 0.020  $\chi^2$ /NDF: 325.3/1



asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -250.651 $\pm$ 272.464  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -215.004 $\pm$ 803.427  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

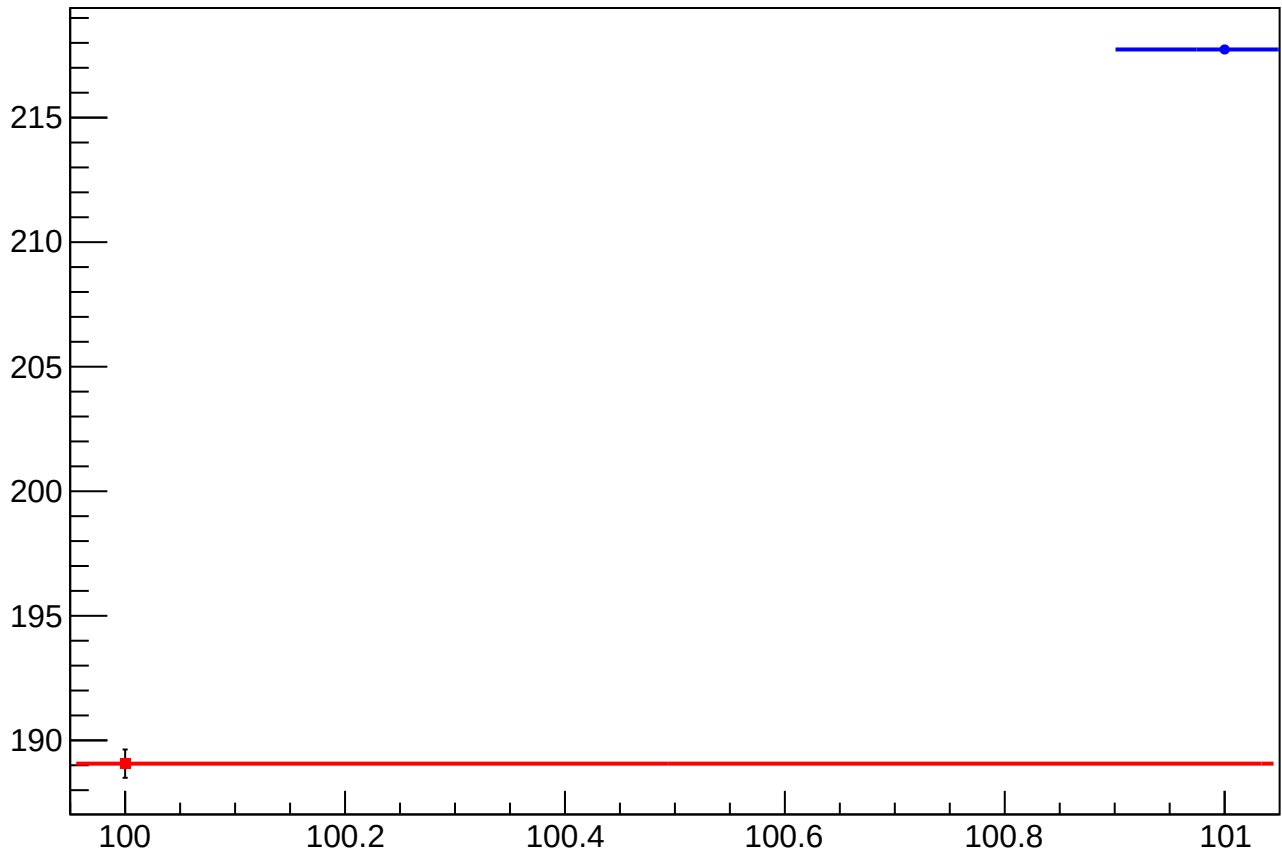
Right: -246.974 $\pm$ 258.030  $\chi^2$ /NDF: 0.0/1

In: -250.651 $\pm$ 272.464  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -246.974 $\pm$ 258.030  $\chi^2$ /NDF: 0.0/1

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 217.736 $\pm$ 0.193  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 189.065 $\pm$ 0.568  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

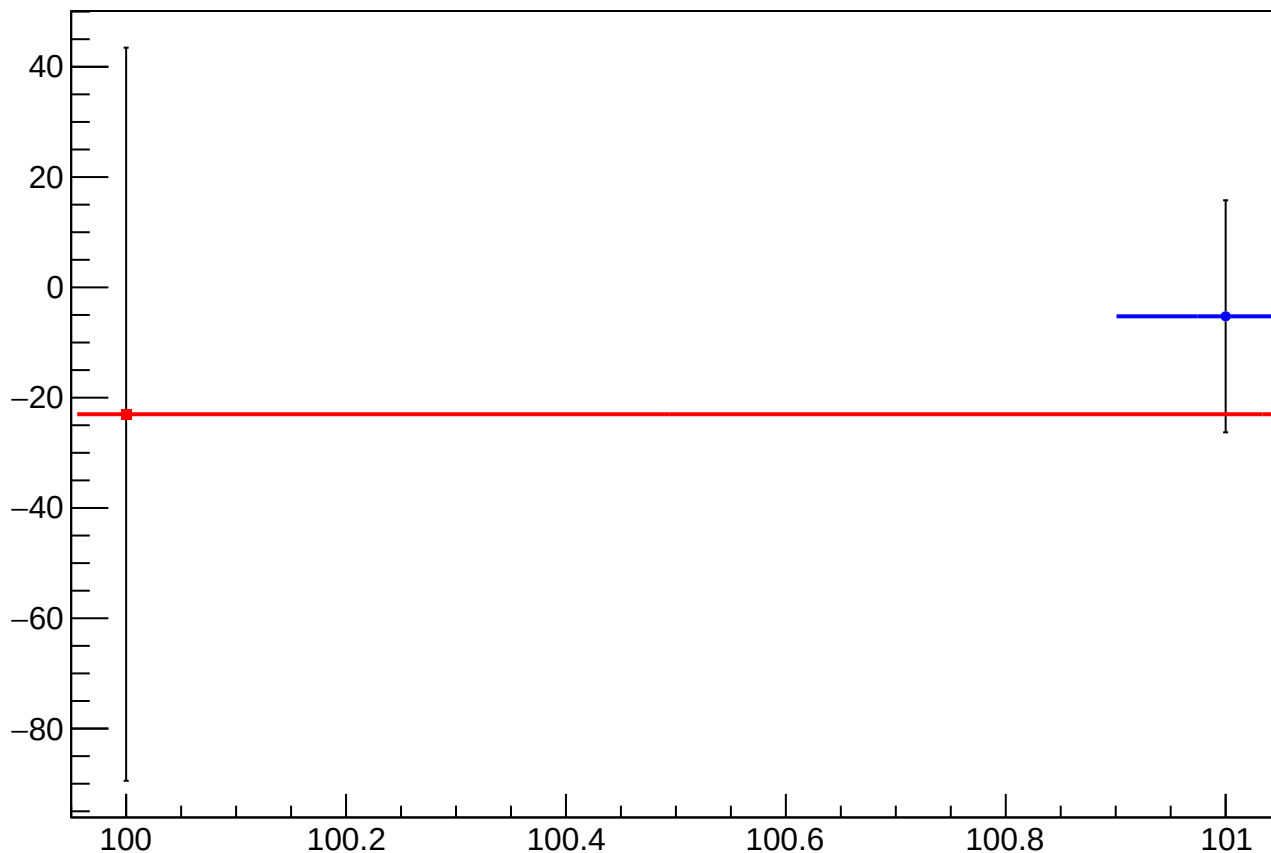
Right: 214.778 $\pm$ 0.182  $\chi^2/\text{NDF}$ : 2284.2/1

In: 217.736 $\pm$ 0.193  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 214.778 $\pm$ 0.182  $\chi^2/\text{NDF}$ : 2284.2/1

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -5.247+/-21.045  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -23.003+/-66.468  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

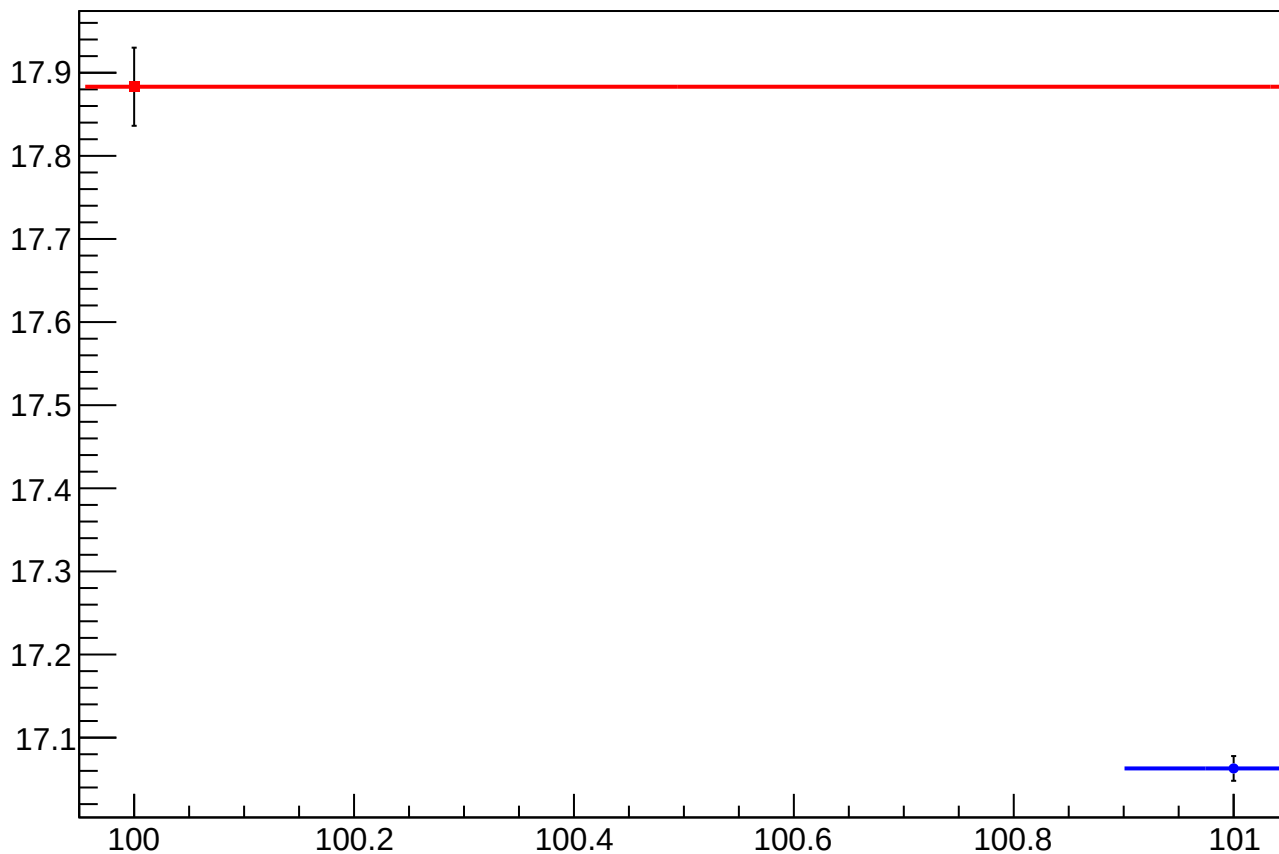
Right: -6.865+/-20.063  $\chi^2/\text{NDF}$ : 0.1/1

In: -5.247+/-21.045  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.865+/-20.063  $\chi^2/\text{NDF}$ : 0.1/1

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 17.063 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.883 $\pm$ 0.047  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

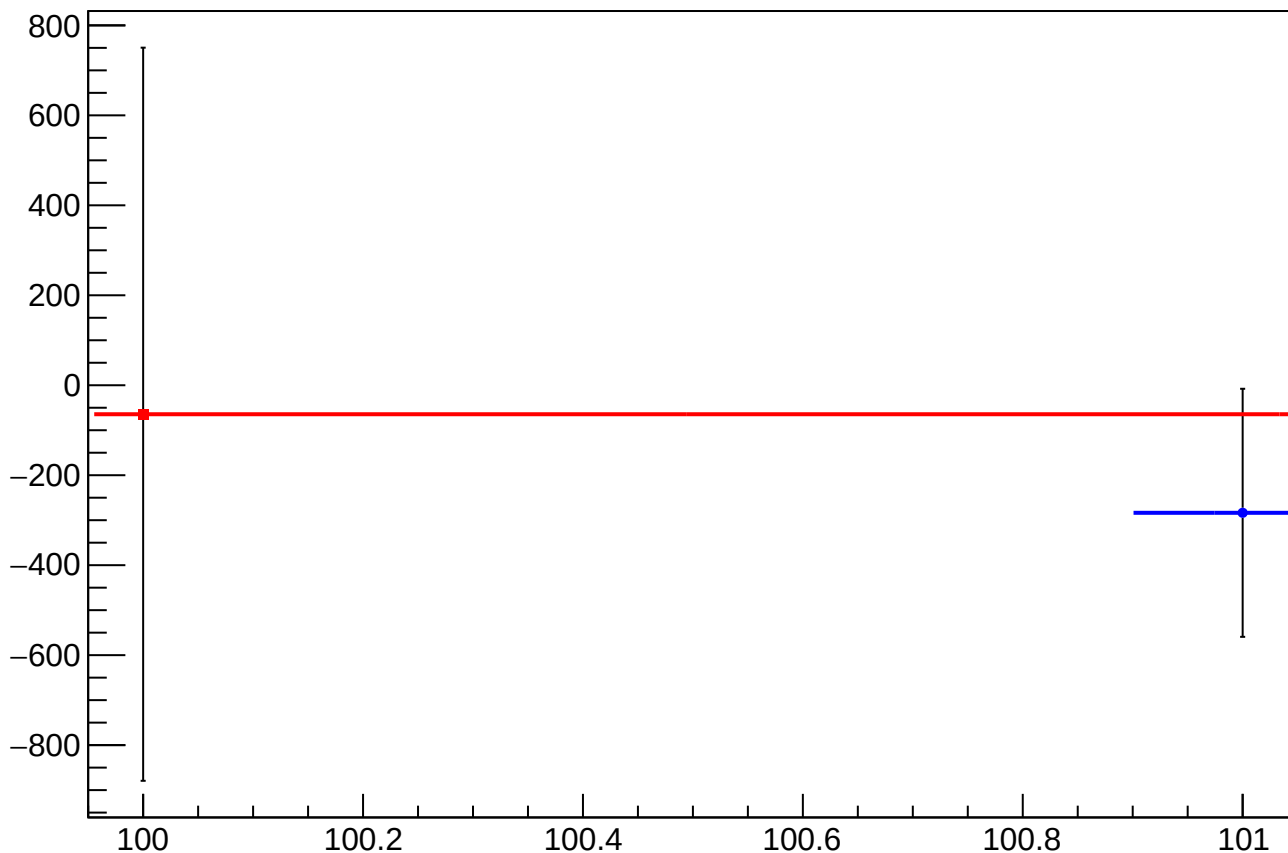
Right: 17.138 $\pm$ 0.014  $\chi^2$ /NDF: 276.8/1

In: 17.063 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.138 $\pm$ 0.014  $\chi^2$ /NDF: 276.8/1

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -283.563+/-275.717  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -64.437+/-814.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

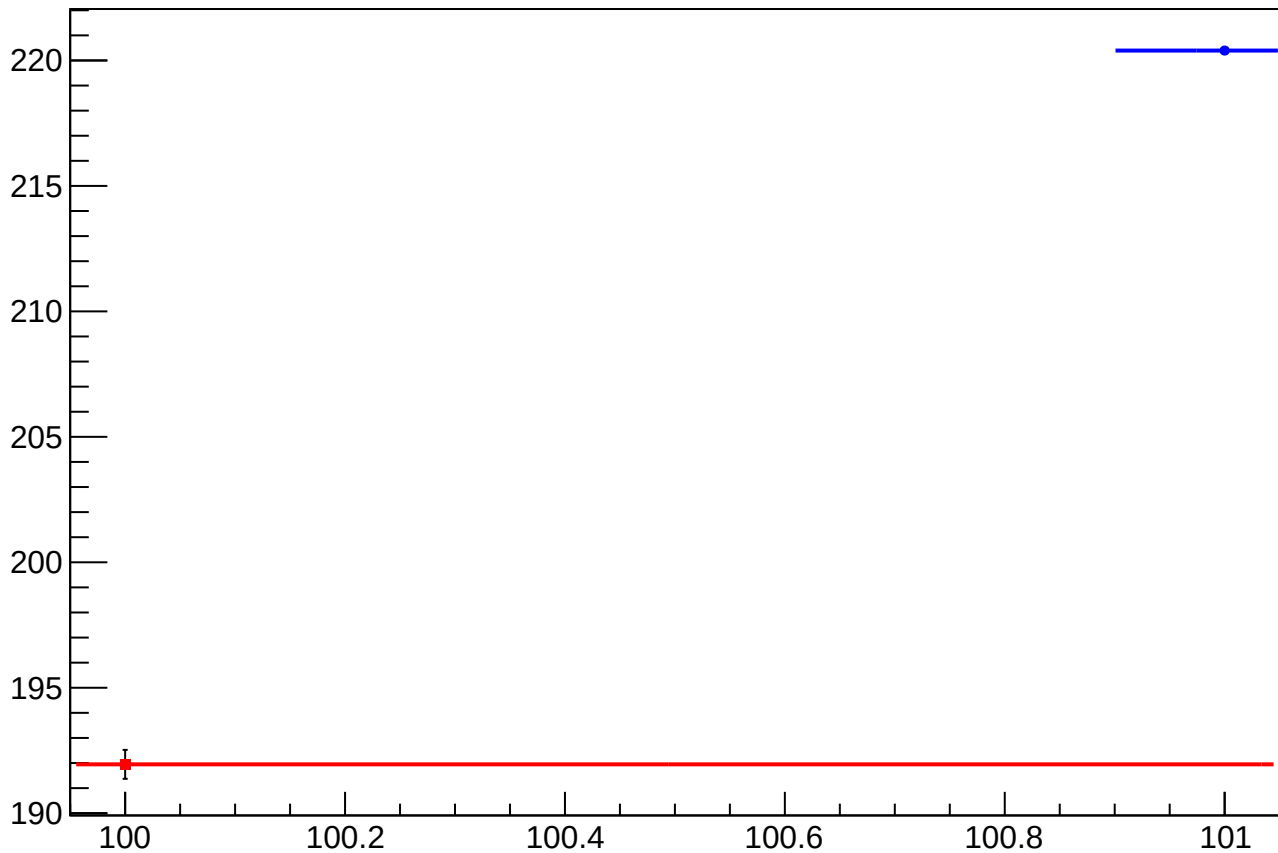
Right: -261.054+/-261.172  $\chi^2/\text{NDF}$ : 0.1/1

In: -283.563+/-275.717  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -261.054+/-261.172  $\chi^2/\text{NDF}$ : 0.1/1

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 220.394+/-0.195  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 191.948+/-0.576  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

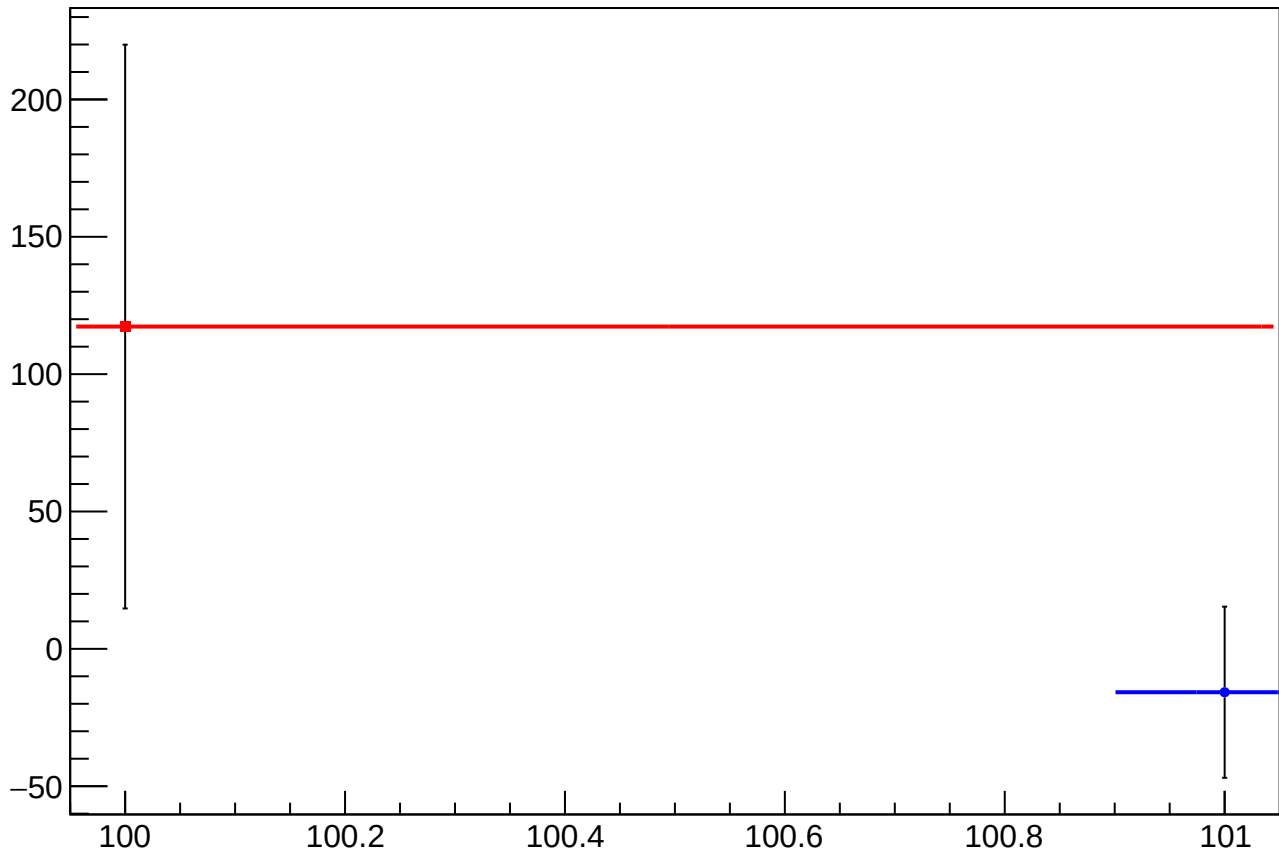
Right: 217.472+/-0.185  $\chi^2$ /NDF: 2186.9/1

In: 220.394+/-0.195  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 217.472+/-0.185  $\chi^2$ /NDF: 2186.9/1

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -15.794+/-31.151  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 117.321+/-102.621  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

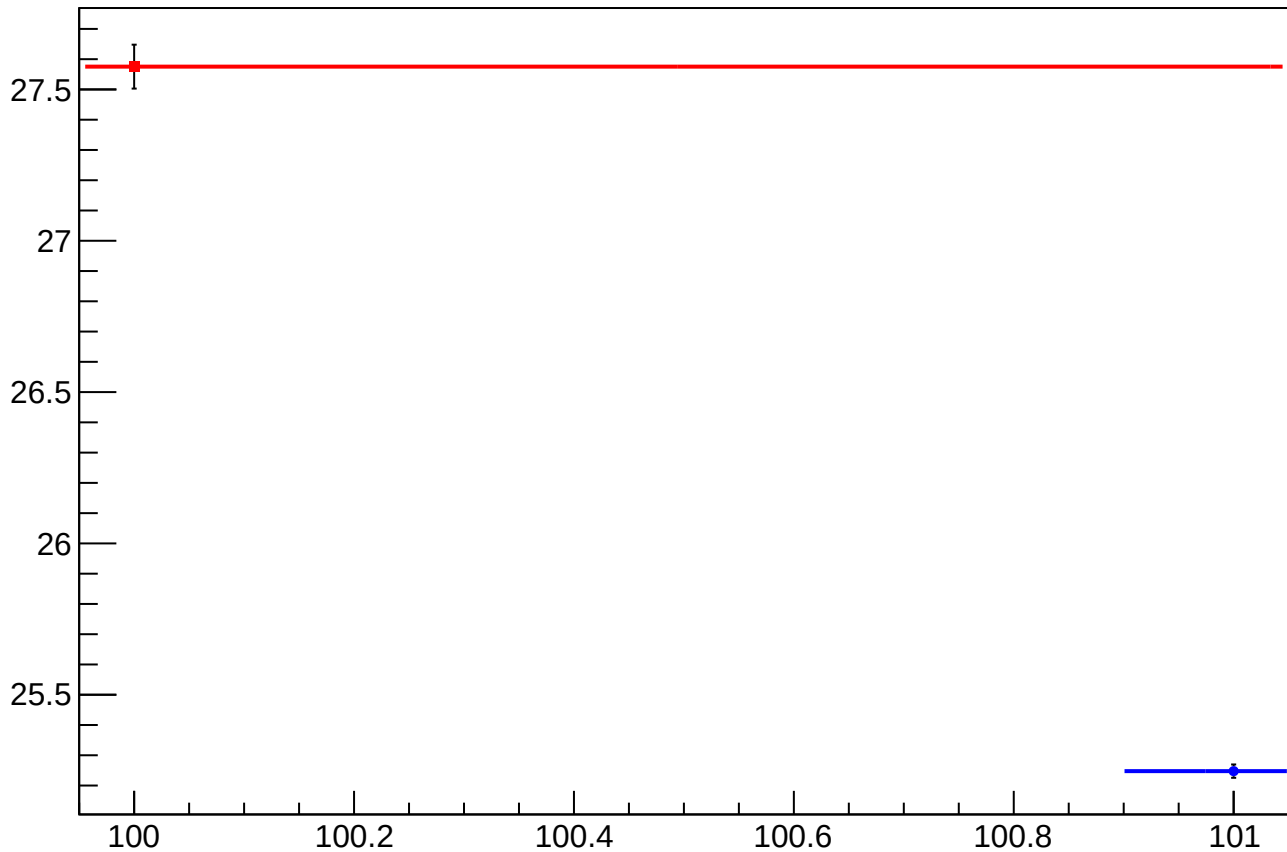
Right: -4.564+/-29.808  $\chi^2$ /NDF: 1.5/1

In: -15.794+/-31.151  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -4.564+/-29.808  $\chi^2$ /NDF: 1.5/1

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 25.248 $\pm$ 0.022  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 27.575 $\pm$ 0.073  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 25.444 $\pm$ 0.021  $\chi^2$ /NDF: 942.3/1

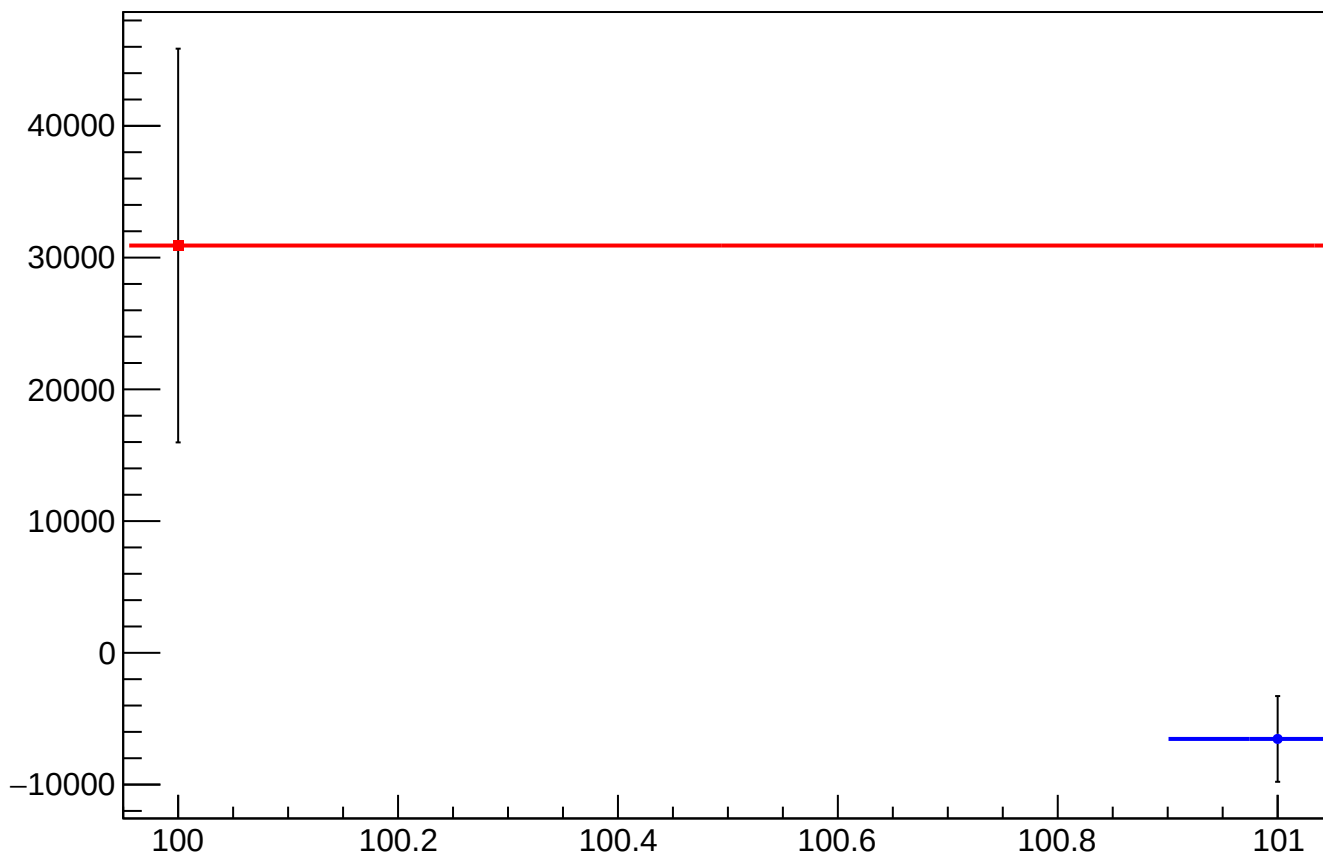
In: 25.248 $\pm$ 0.022  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.444 $\pm$ 0.021  $\chi^2$ /NDF: 942.3/1



asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -6535.352+/-3253.604  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30916.063+/-14943.031  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

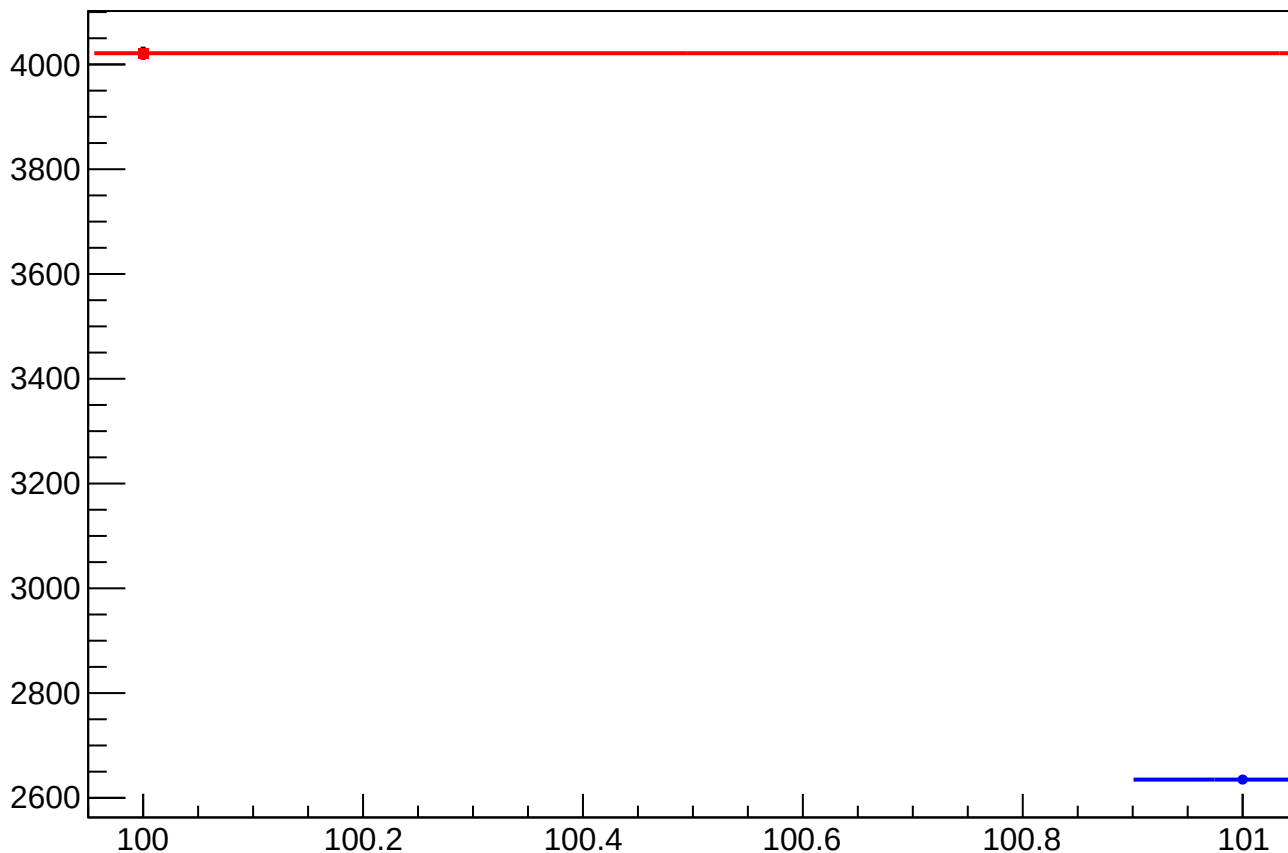
Right: -4840.217+/-3179.119  $\chi^2/\text{NDF}$ : 6.0/1

In: -6535.352+/-3253.604  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4840.217+/-3179.119  $\chi^2/\text{NDF}$ : 6.0/1

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 2634.876 $\pm$ 2.301  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4021.470 $\pm$ 10.566  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

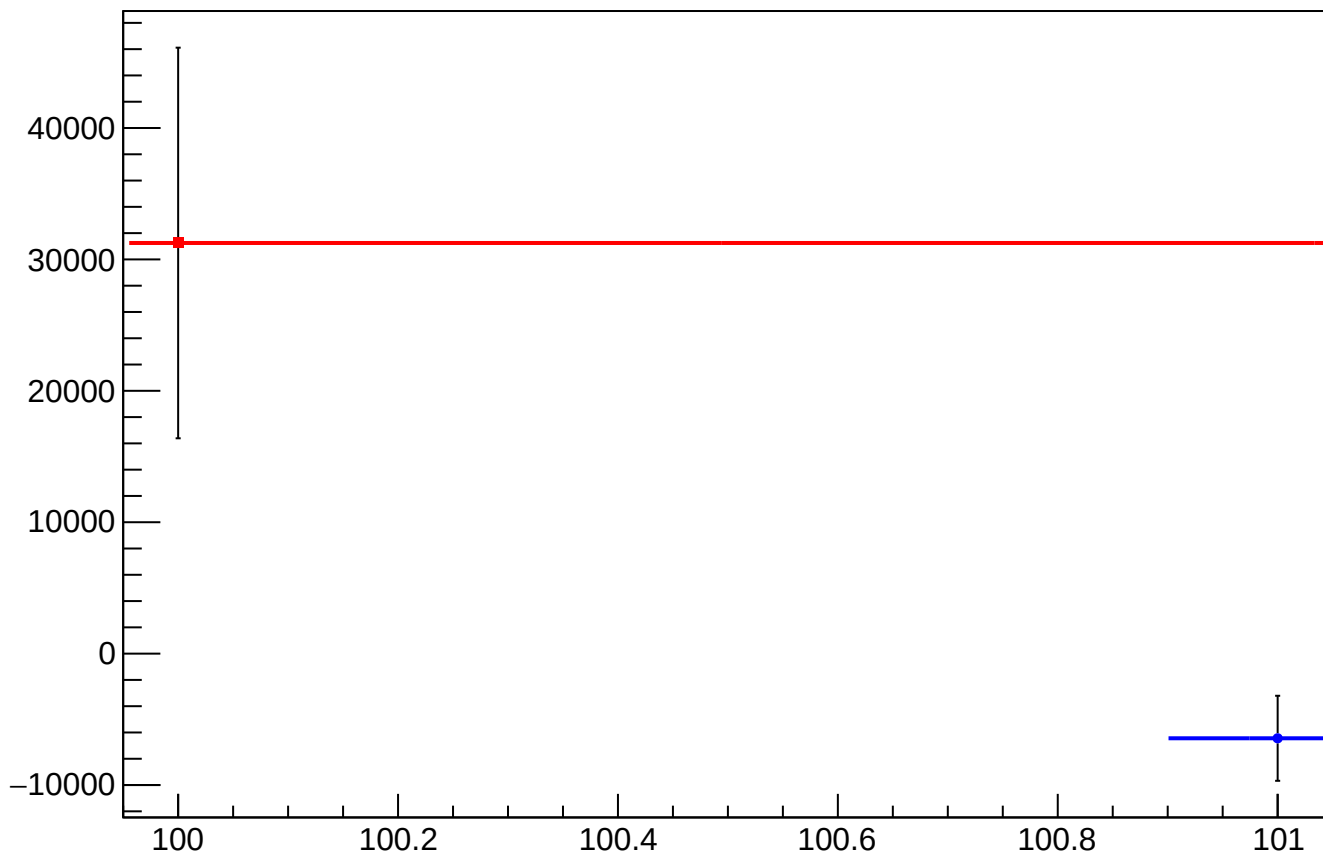
Right: 2697.636 $\pm$ 2.248  $\chi^2$ /NDF: 16441.3/1

In: 2634.876 $\pm$ 2.301  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2697.636 $\pm$ 2.248  $\chi^2$ /NDF: 16441.3/1

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -6441.767+/-3235.351  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31250.159+/-14862.930  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

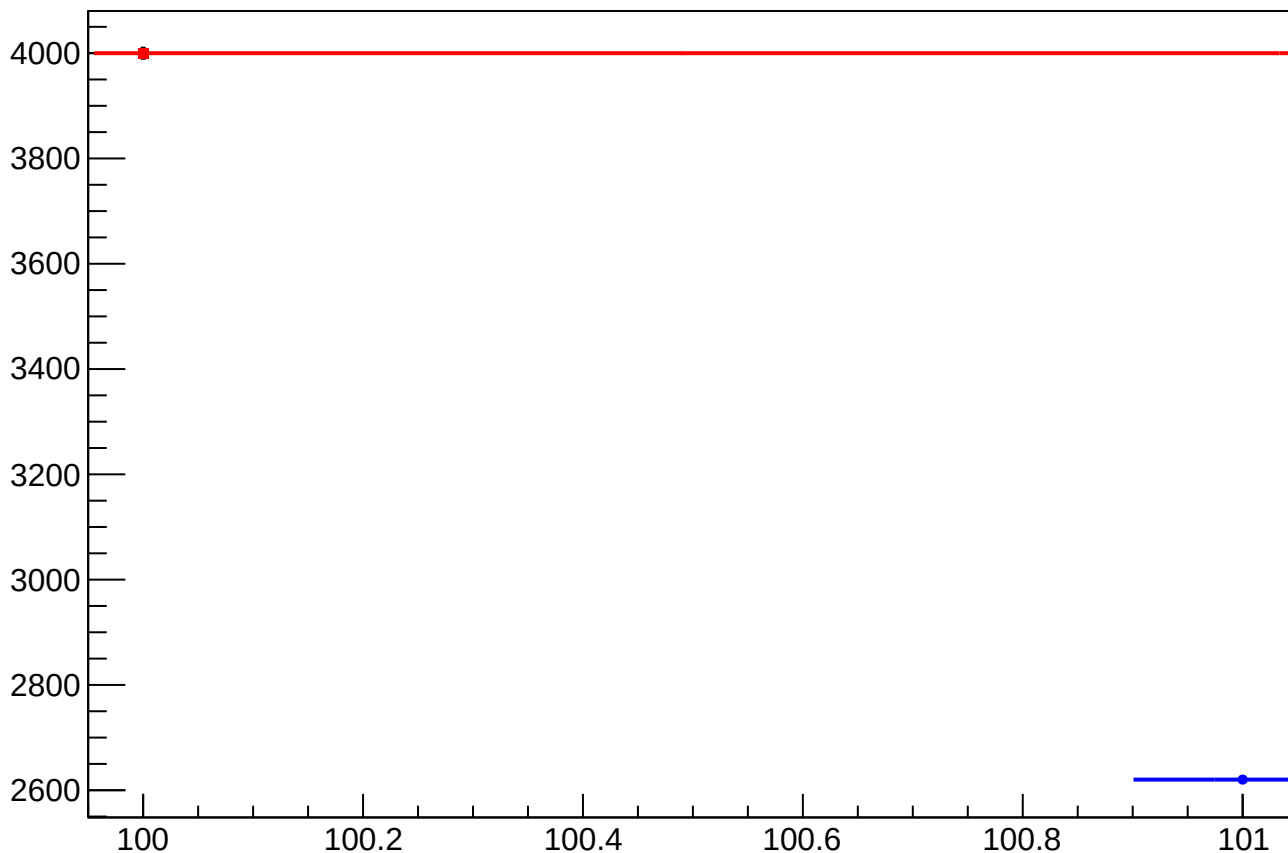
Right: -4736.563+/-3161.320  $\chi^2/\text{NDF}$ : 6.1/1

In: -6441.767+/-3235.351  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4736.563+/-3161.320  $\chi^2/\text{NDF}$ : 6.1/1

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 2620.197 $\pm$ 2.288  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3999.912 $\pm$ 10.510  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

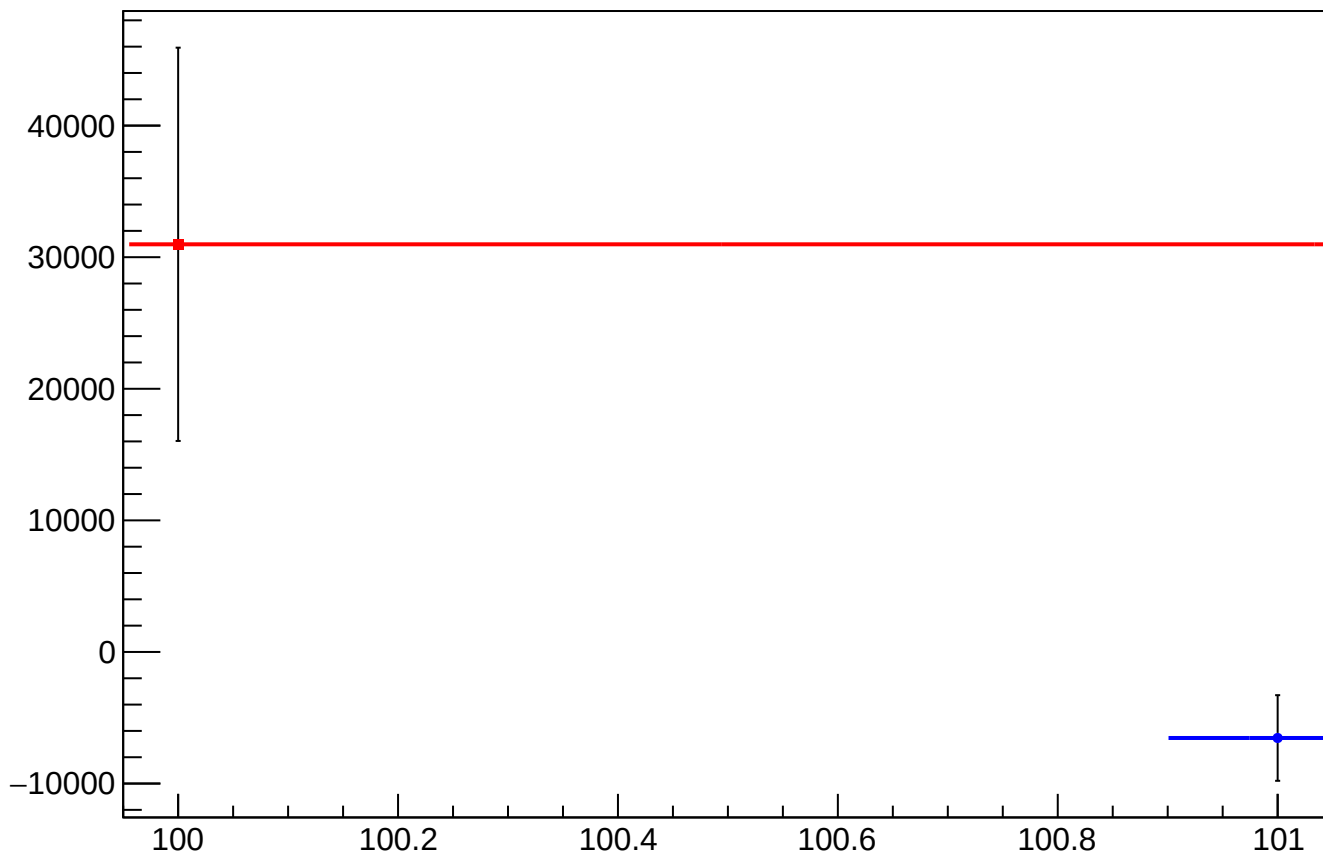
Right: 2682.616 $\pm$ 2.235  $\chi^2$ /NDF: 16454.9/1

In: 2620.197 $\pm$ 2.288  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2682.616 $\pm$ 2.235  $\chi^2$ /NDF: 16454.9/1

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -6537.401+/-3253.626  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30978.886+/-14943.465  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

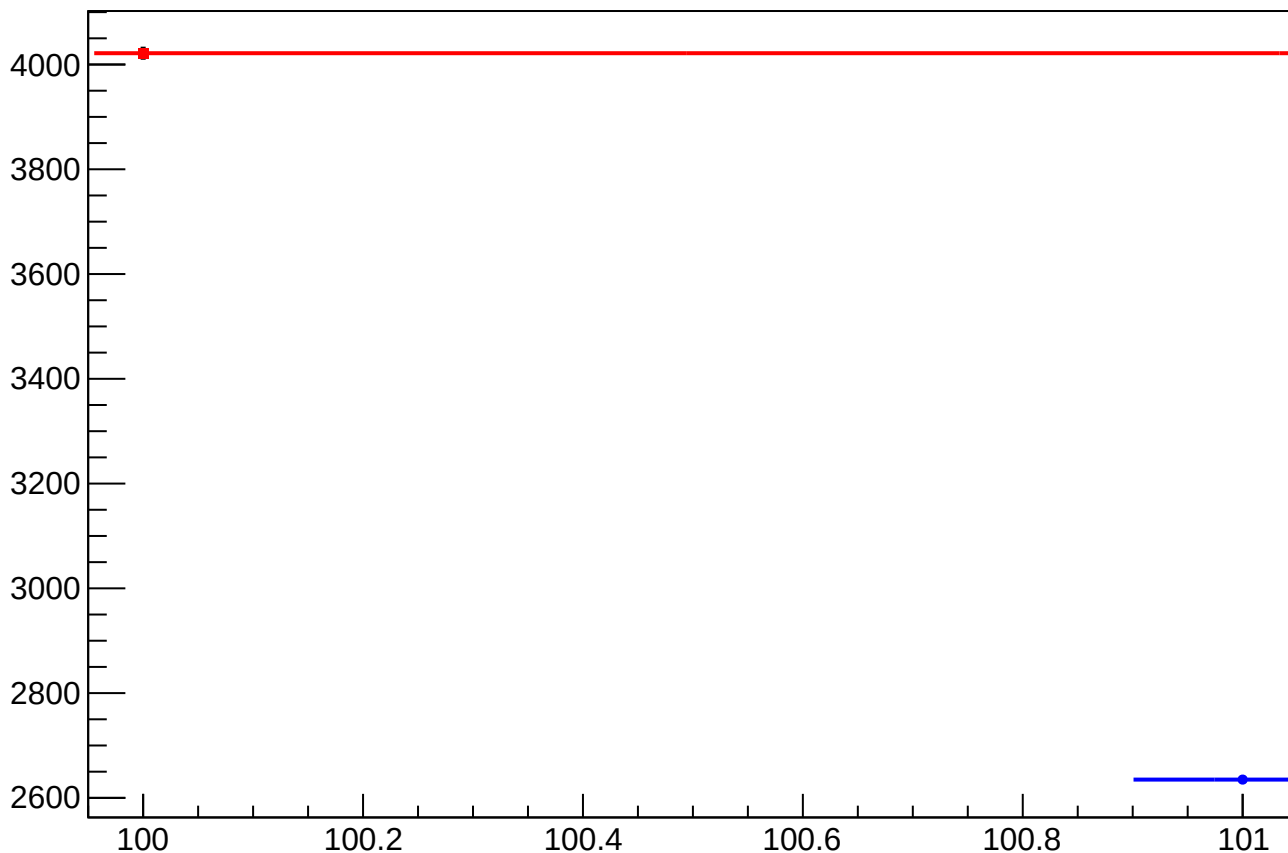
Right: -4839.402+/-3179.143  $\chi^2/\text{NDF}$ : 6.0/1

In: -6537.401+/-3253.626  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4839.402+/-3179.143  $\chi^2/\text{NDF}$ : 6.0/1

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 2634.896 $\pm$ 2.301  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4021.587 $\pm$ 10.567  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

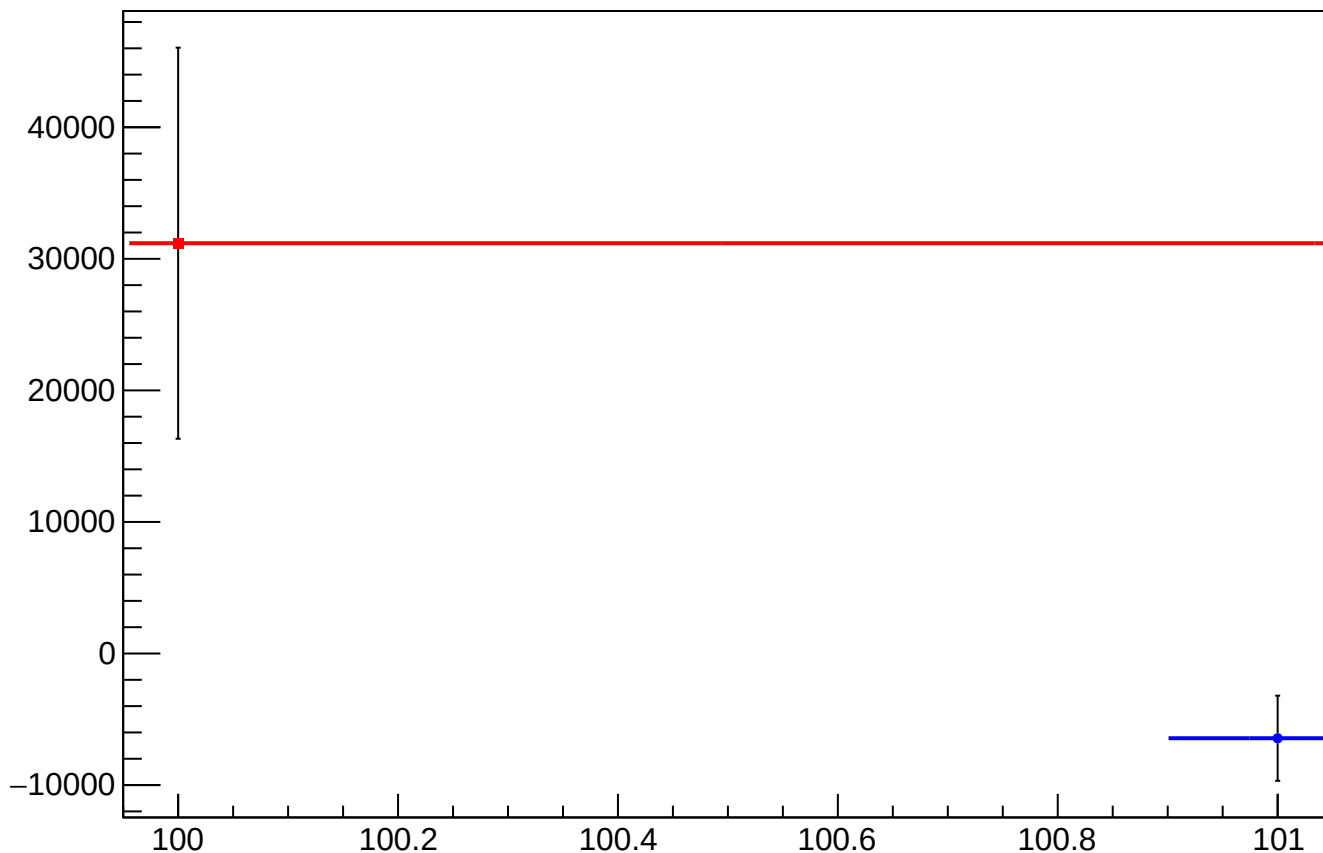
Right: 2697.658 $\pm$ 2.248  $\chi^2$ /NDF: 16442.7/1

In: 2634.896 $\pm$ 2.301  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2697.658 $\pm$ 2.248  $\chi^2$ /NDF: 16442.7/1

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -6439.681+/-3235.233  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31186.779+/-14862.501  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

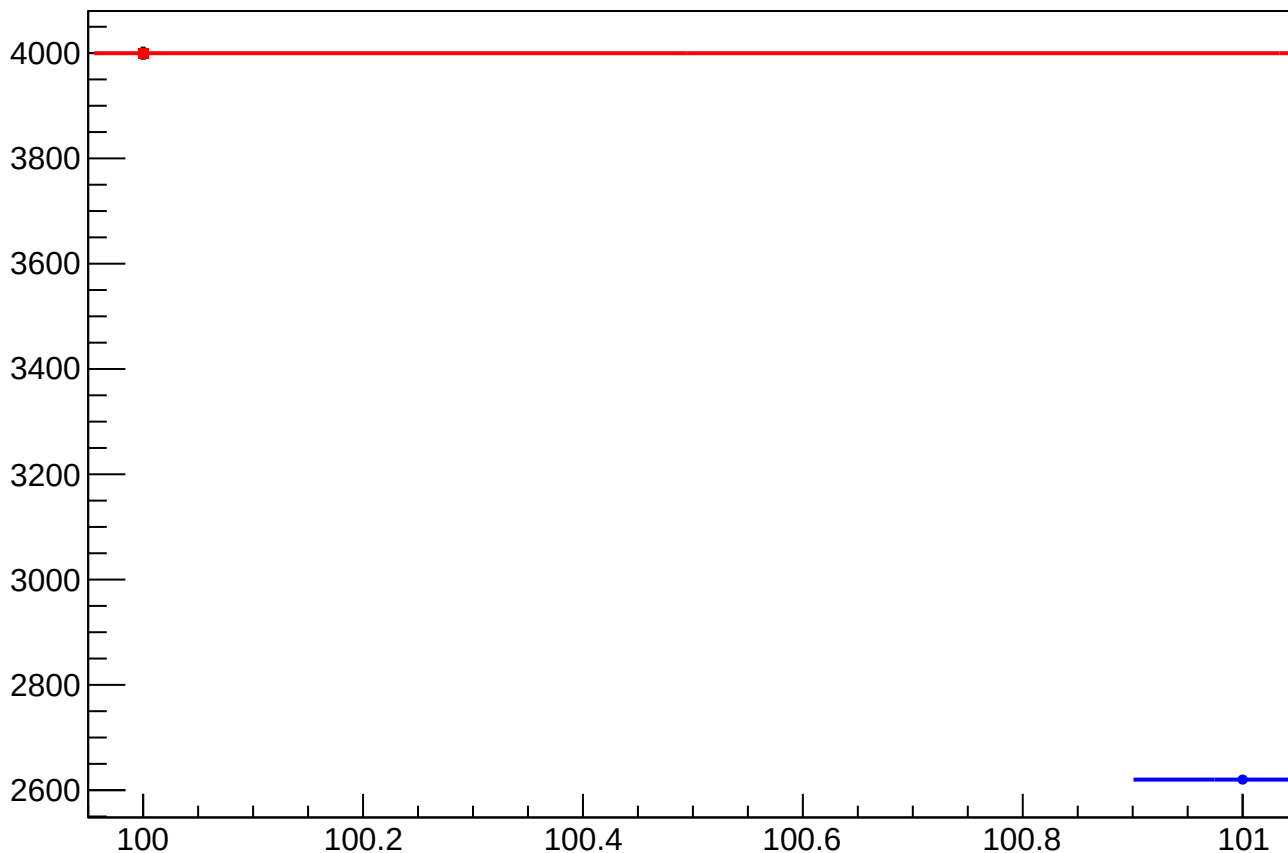
Right: -4737.464+/-3161.205  $\chi^2/\text{NDF}$ : 6.1/1

In: -6439.681+/-3235.233  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4737.464+/-3161.205  $\chi^2/\text{NDF}$ : 6.1/1

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 2620.100+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3999.797+/-10.509  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 2682.518+/-2.235  $\chi^2/\text{NDF}$ : 16455.4/1

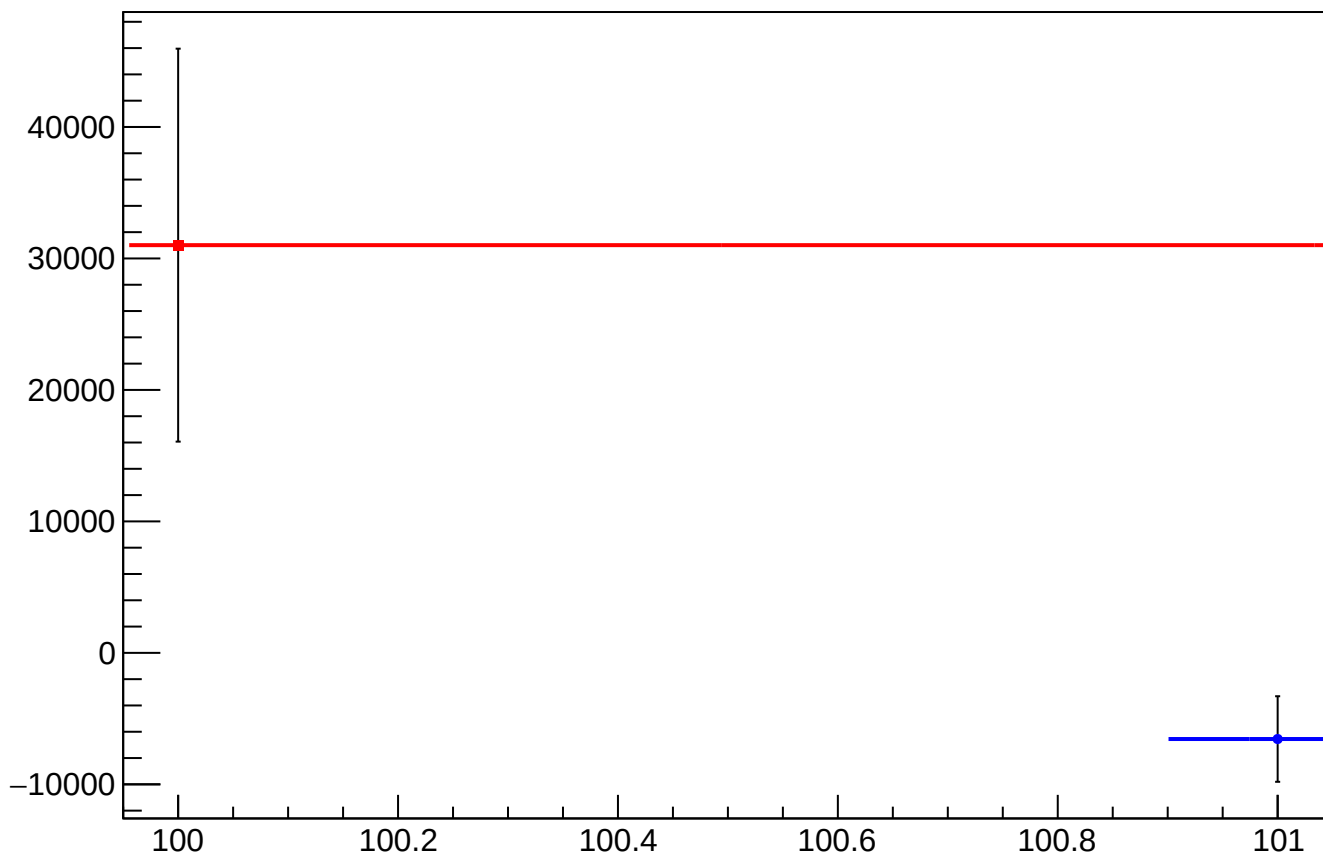
In: 2620.100+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2682.518+/-2.235  $\chi^2/\text{NDF}$ : 16455.4/1



asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -6552.526+/-3253.964  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31011.956+/-14944.327  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

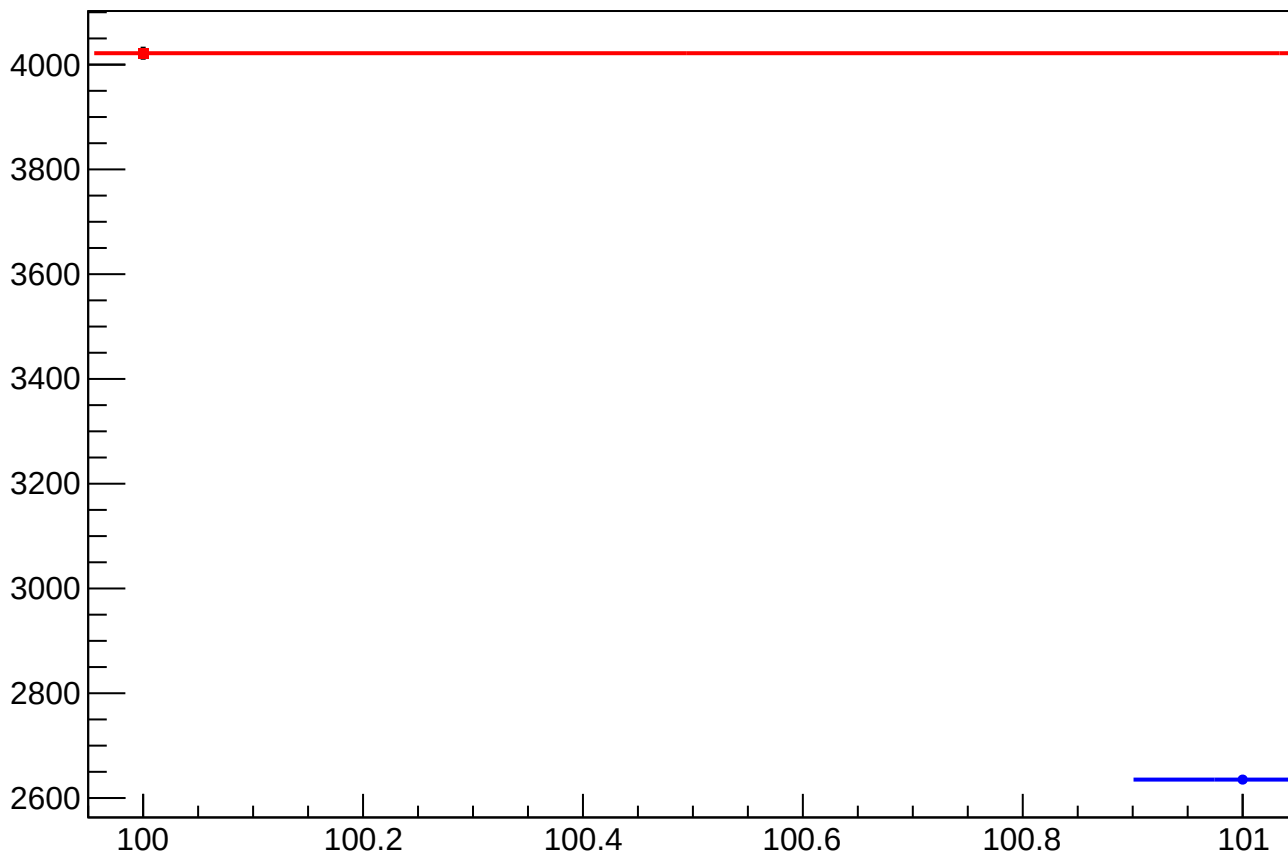
Right: -4852.195+/-3179.467  $\chi^2$ /NDF: 6.0/1

In: -6552.526+/-3253.964  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -4852.195+/-3179.467  $\chi^2$ /NDF: 6.0/1

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 2635.168 $\pm$ 2.301  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4021.818 $\pm$ 10.567  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

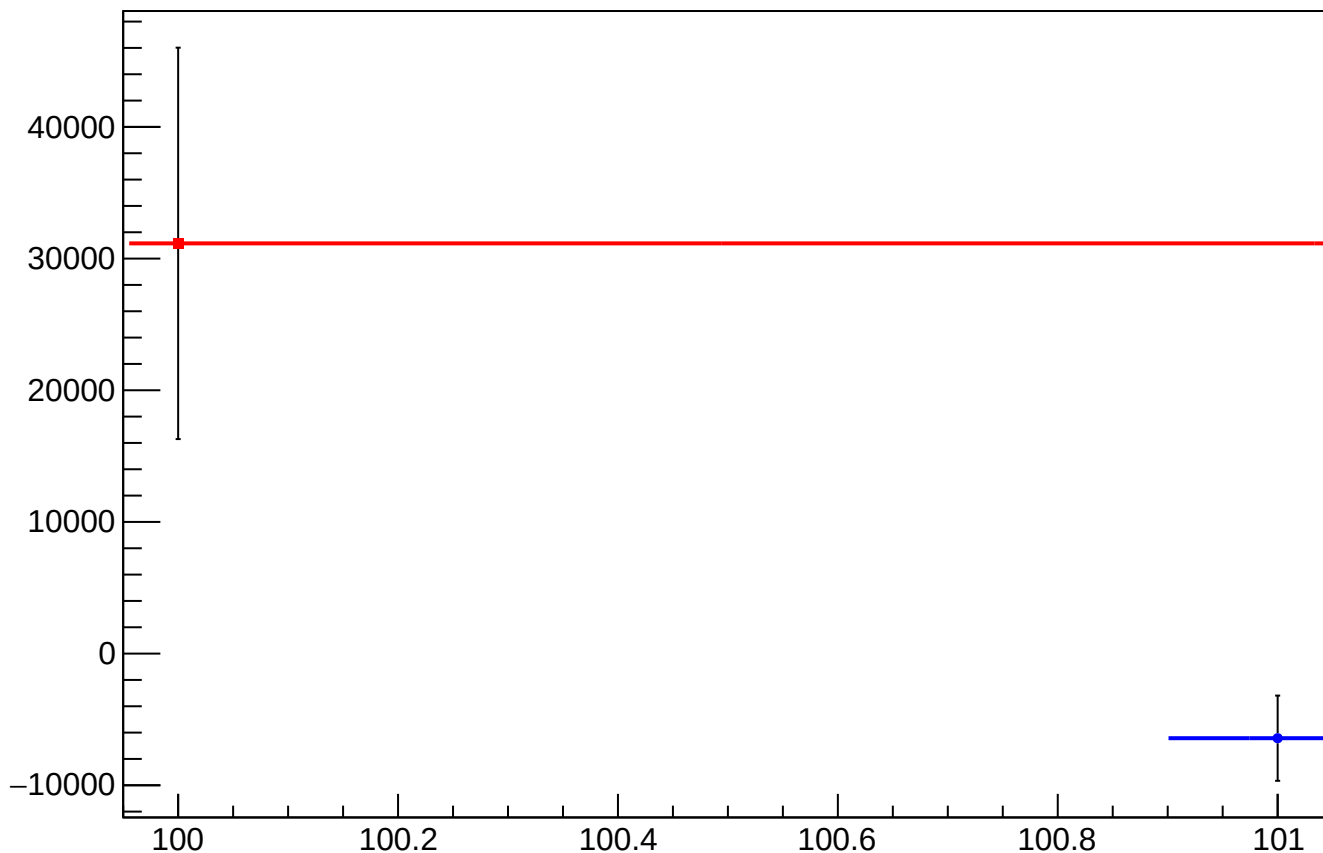
Right: 2697.934 $\pm$ 2.248  $\chi^2$ /NDF: 16439.7/1

In: 2635.168 $\pm$ 2.301  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2697.934 $\pm$ 2.248  $\chi^2$ /NDF: 16439.7/1

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -6425.103+/-3235.374  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31155.307+/-14863.352  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

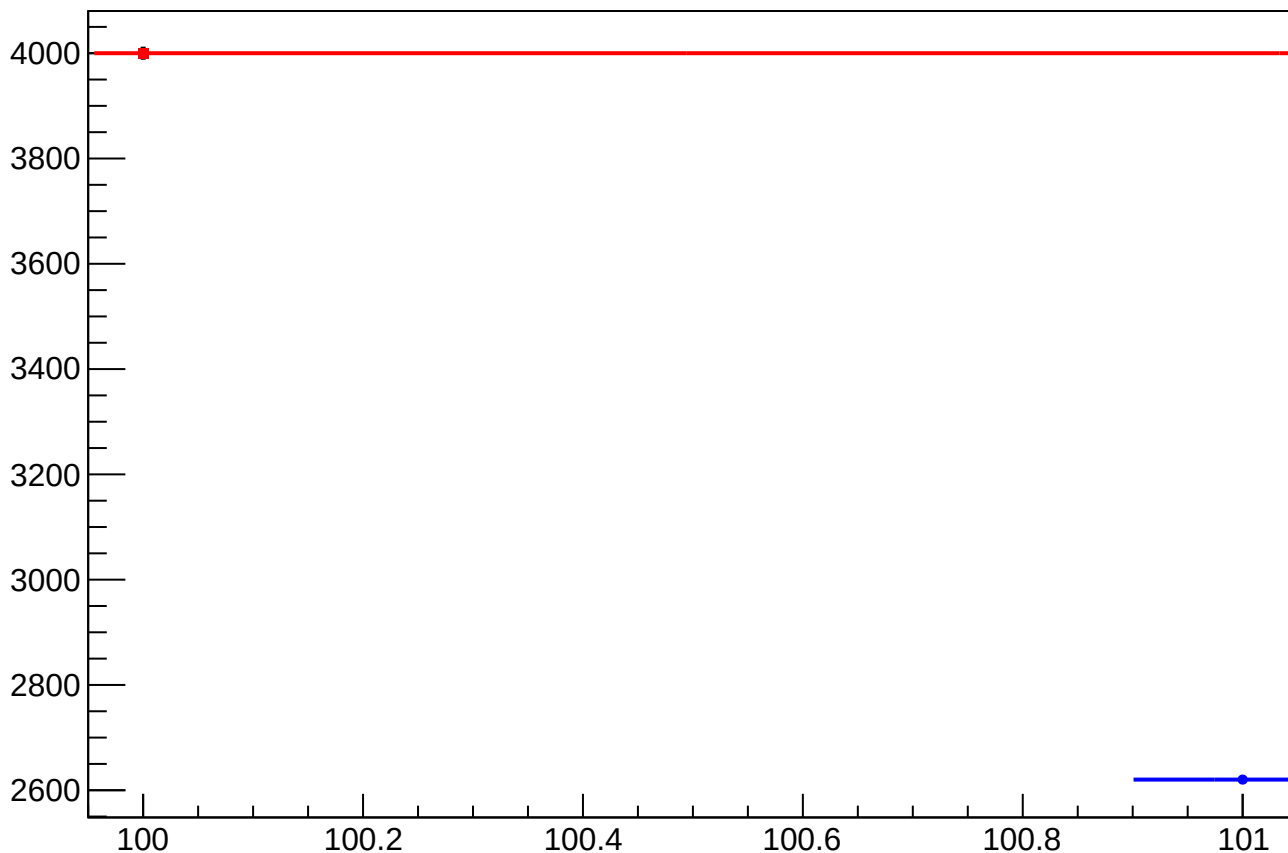
Right: -4725.014+/-3161.345  $\chi^2/\text{NDF}$ : 6.1/1

In: -6425.103+/-3235.374  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4725.014+/-3161.345  $\chi^2/\text{NDF}$ : 6.1/1

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 2620.214+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4000.027+/-10.510  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

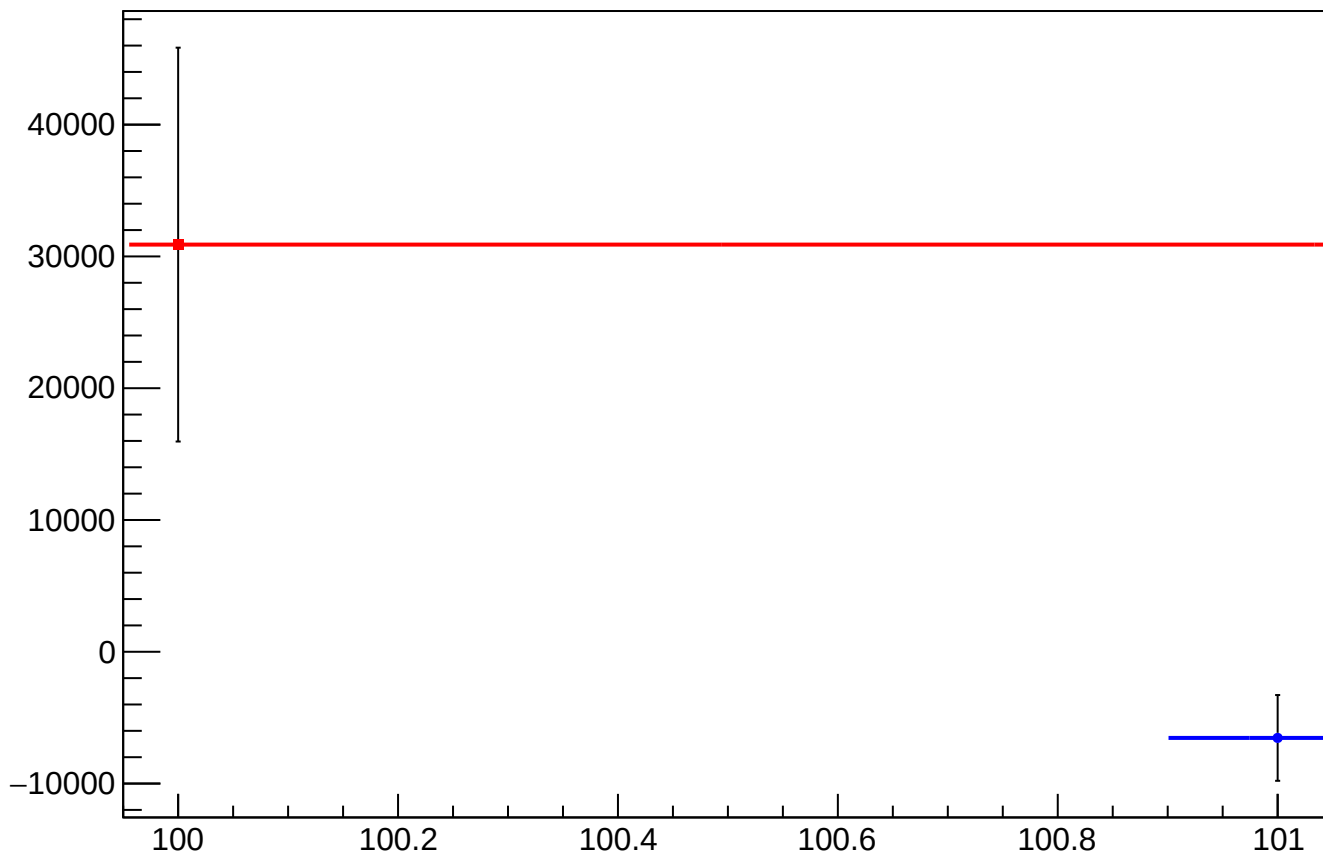
Right: 2682.635+/-2.235  $\chi^2/\text{NDF}$ : 16456.3/1

In: 2620.214+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2682.635+/-2.235  $\chi^2/\text{NDF}$ : 16456.3/1

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug, Sign Corrected



Right In: -6536.663+/-3253.964  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30897.681+/-14943.304  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

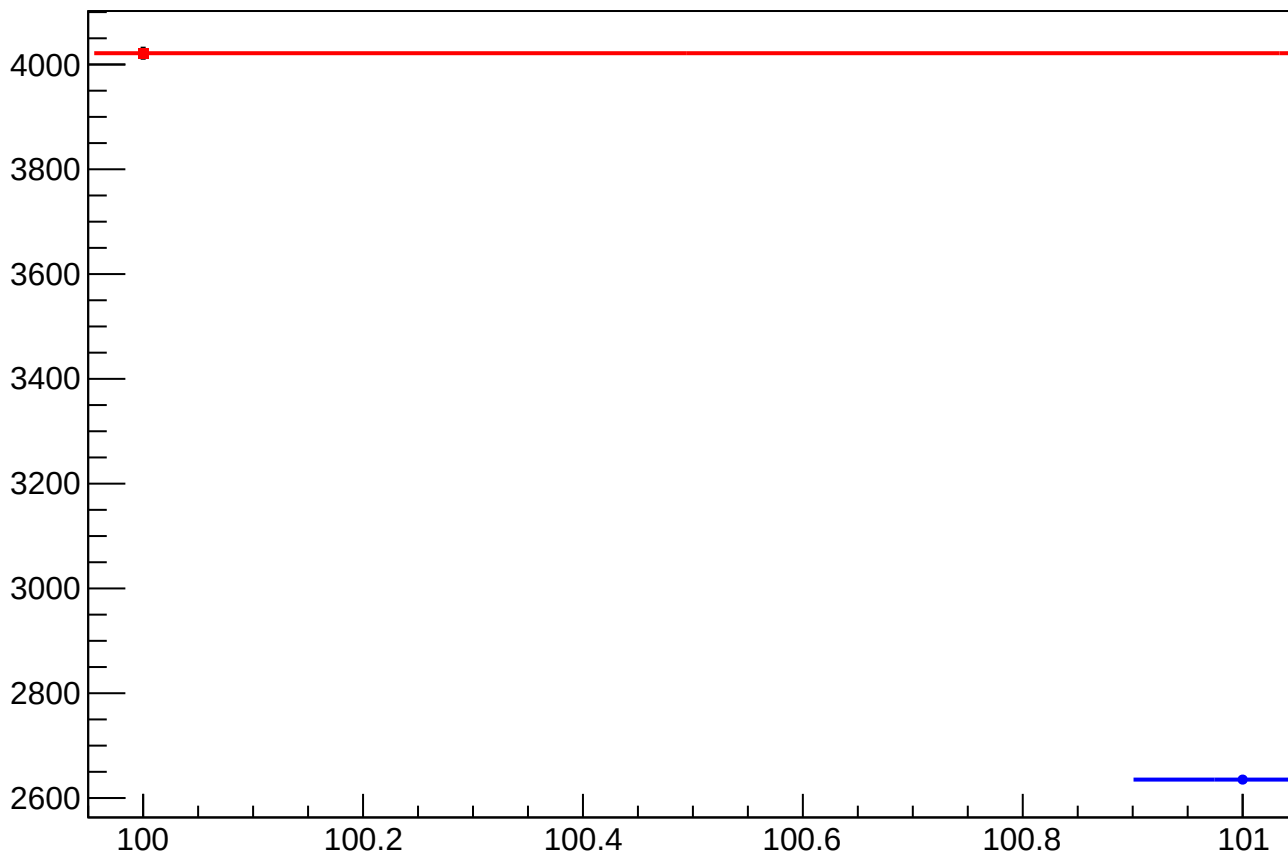
Right: -4842.002+/-3179.457  $\chi^2/\text{NDF}$ : 6.0/1

In: -6536.663+/-3253.964  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4842.002+/-3179.457  $\chi^2/\text{NDF}$ : 6.0/1

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug, Sign Corrected



Right In: 2635.167+/-2.301  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4021.543+/-10.567  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

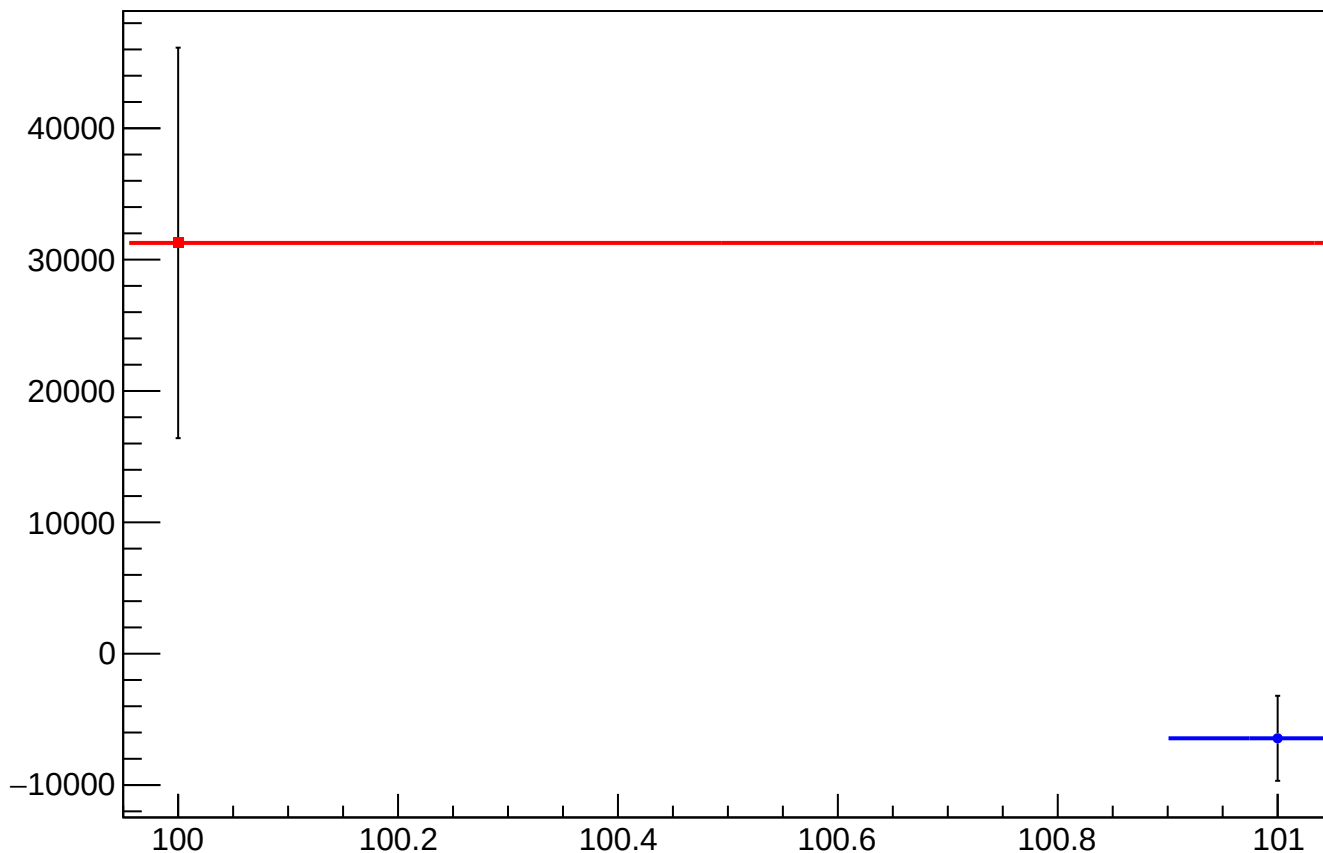
Right: 2697.929+/-2.248  $\chi^2/\text{NDF}$ : 16435.4/1

In: 2635.167+/-2.301  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2697.929+/-2.248  $\chi^2/\text{NDF}$ : 16435.4/1

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug, Sign Corrected



Right In: -6439.759+/-3235.345  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31271.299+/-14863.469  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

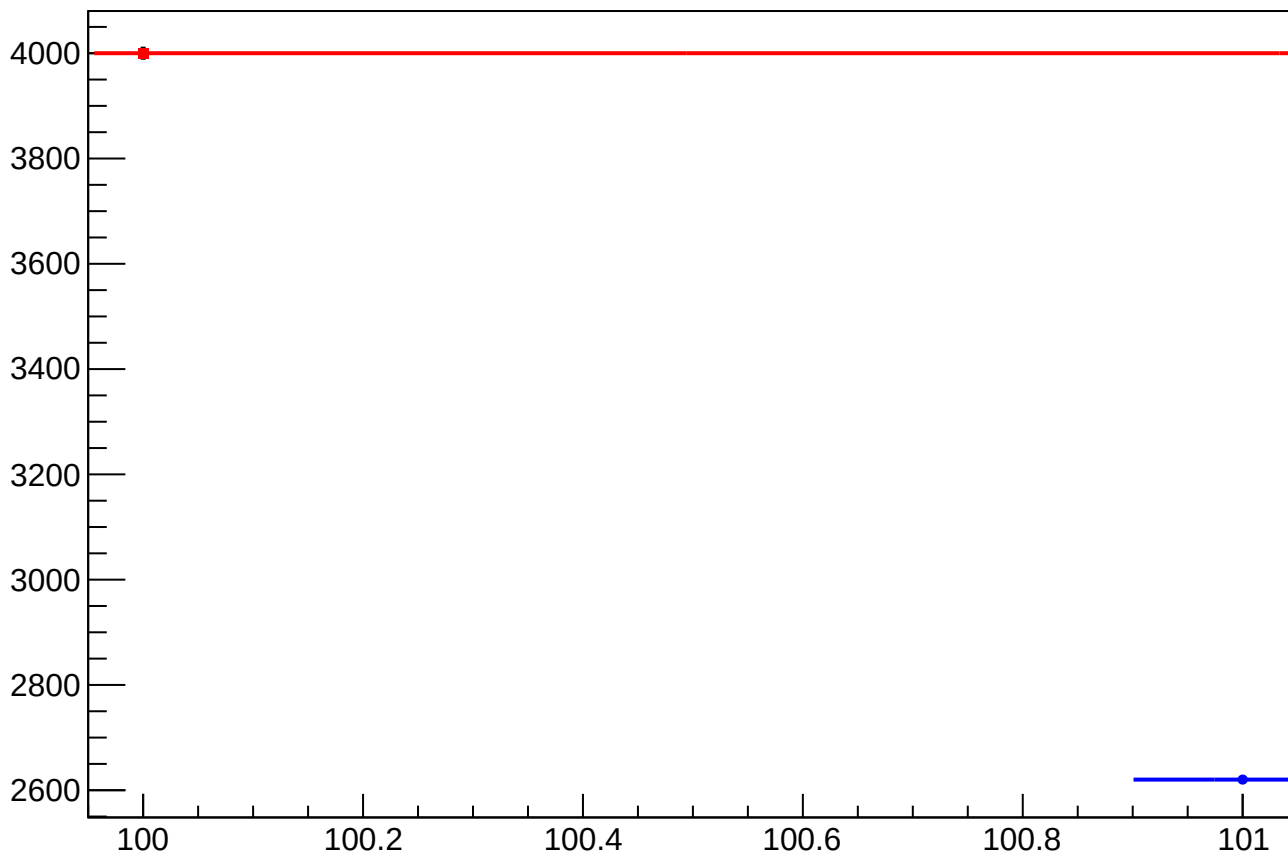
Right: -4733.814+/-3161.319  $\chi^2/\text{NDF}$ : 6.1/1

In: -6439.759+/-3235.345  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4733.814+/-3161.319  $\chi^2/\text{NDF}$ : 6.1/1

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug, Sign Corrected



Right In: 2620.190+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4000.057+/-10.510  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 2682.611+/-2.235  $\chi^2/\text{NDF}$ : 16457.3/1

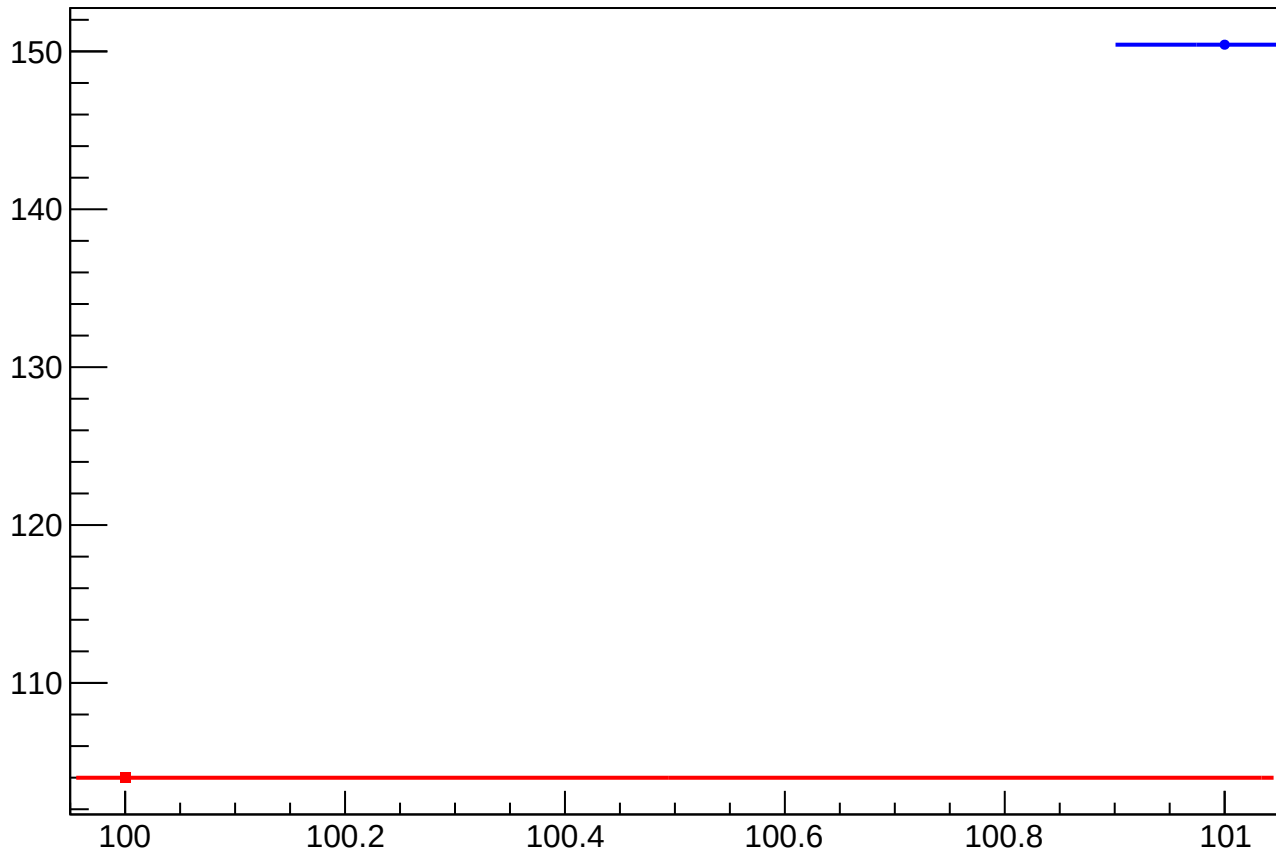
In: 2620.190+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2682.611+/-2.235  $\chi^2/\text{NDF}$ : 16457.3/1



# yield\_bcm\_target\_mean vs Slug, Sign Corrected



Right In: 150.425+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.995+/-0.003  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

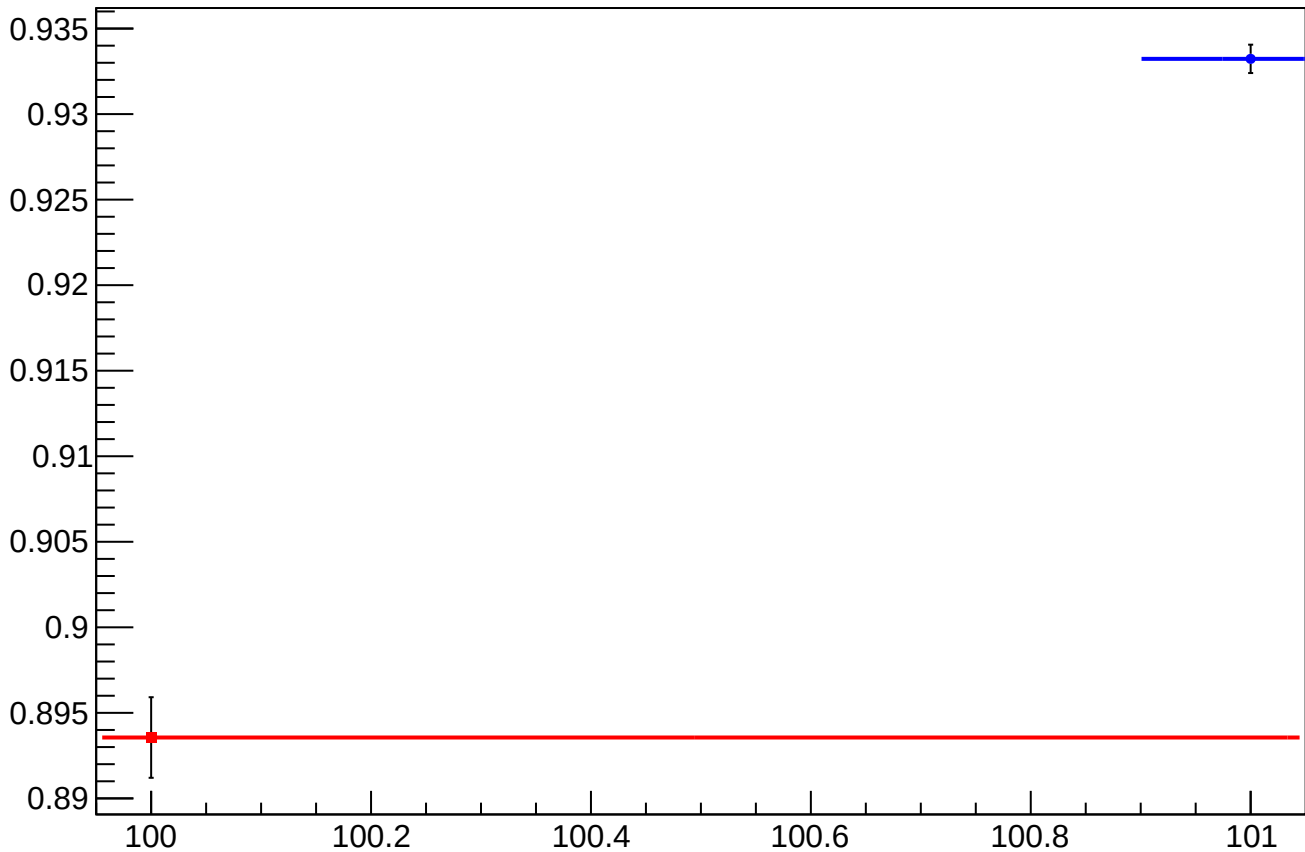
Right: 145.303+/-0.001  $\chi^2/\text{NDF}$ : 172873286.7/1

In: 150.425+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 145.303+/-0.001  $\chi^2/\text{NDF}$ : 172873286.7/1

# yield\_bcm\_target\_rms vs Slug, Sign Corrected



Right In: 0.933+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.894+/-0.002  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

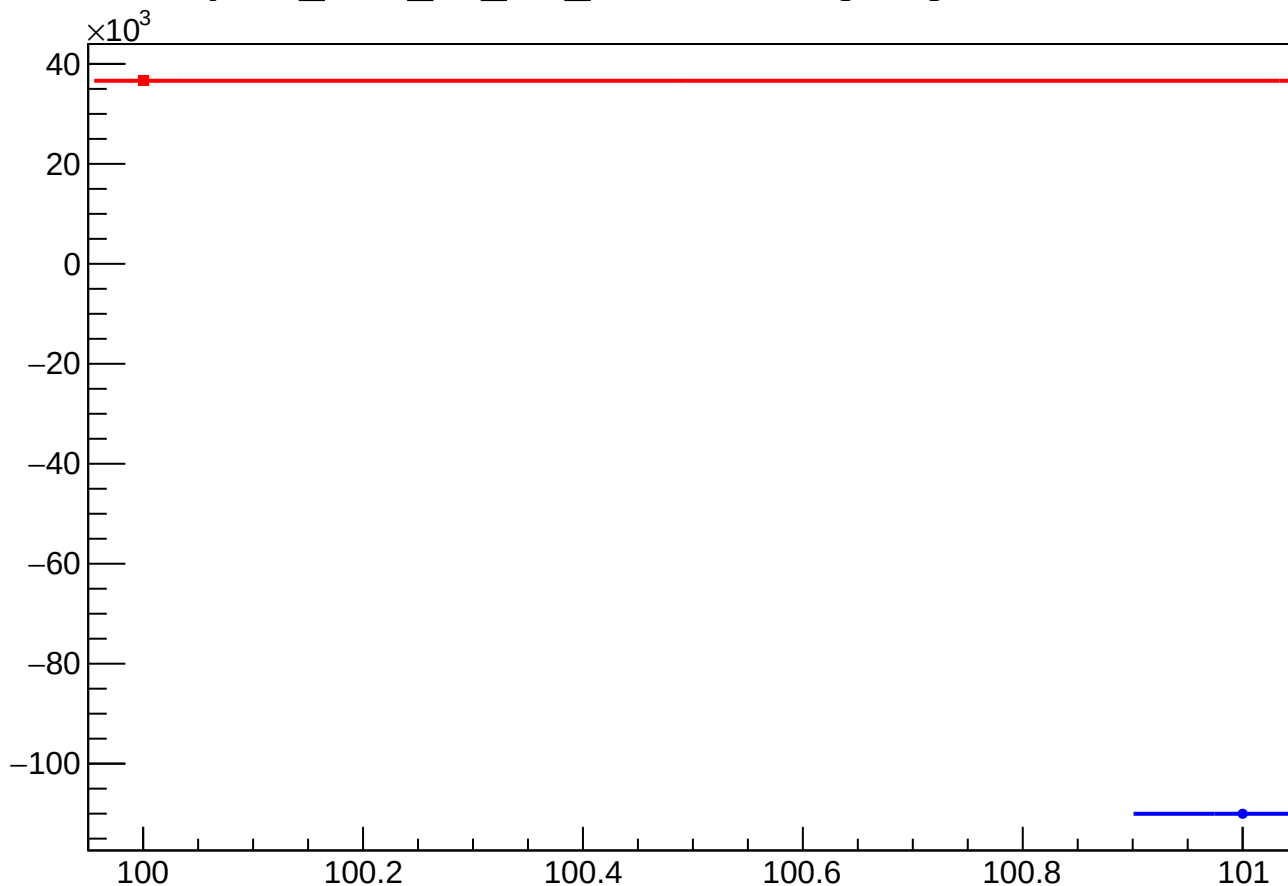
Right: 0.929+/-0.001  $\chi^2/\text{NDF}$ : 252.4/1

In: 0.933+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.929+/-0.001  $\chi^2/\text{NDF}$ : 252.4/1

# yield\_bcm\_an\_diff\_mean vs Slug, Sign Corrected



Right In: -110026.328+/-7.018  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 36630.122+/-15.306  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

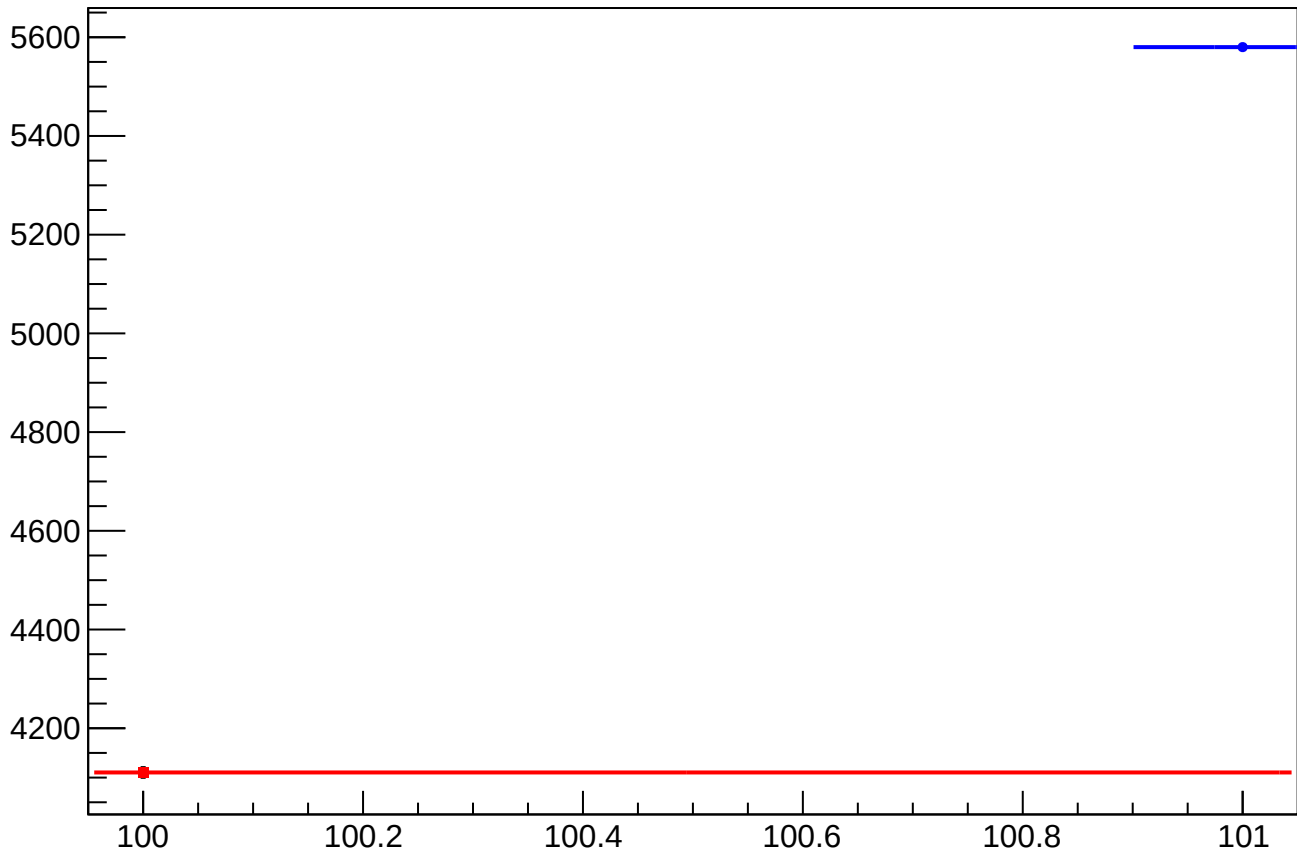
Right: -84551.008+/-6.379  $\chi^2$ /NDF: 75858492.1/1

In: -110026.328+/-7.018  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -84551.008+/-6.379  $\chi^2$ /NDF: 75858492.1

# yield\_bcm\_an\_diff\_rms vs Slug, Sign Corrected



Right In: 5579.997 $\pm$ 4.962  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4110.409 $\pm$ 10.823  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

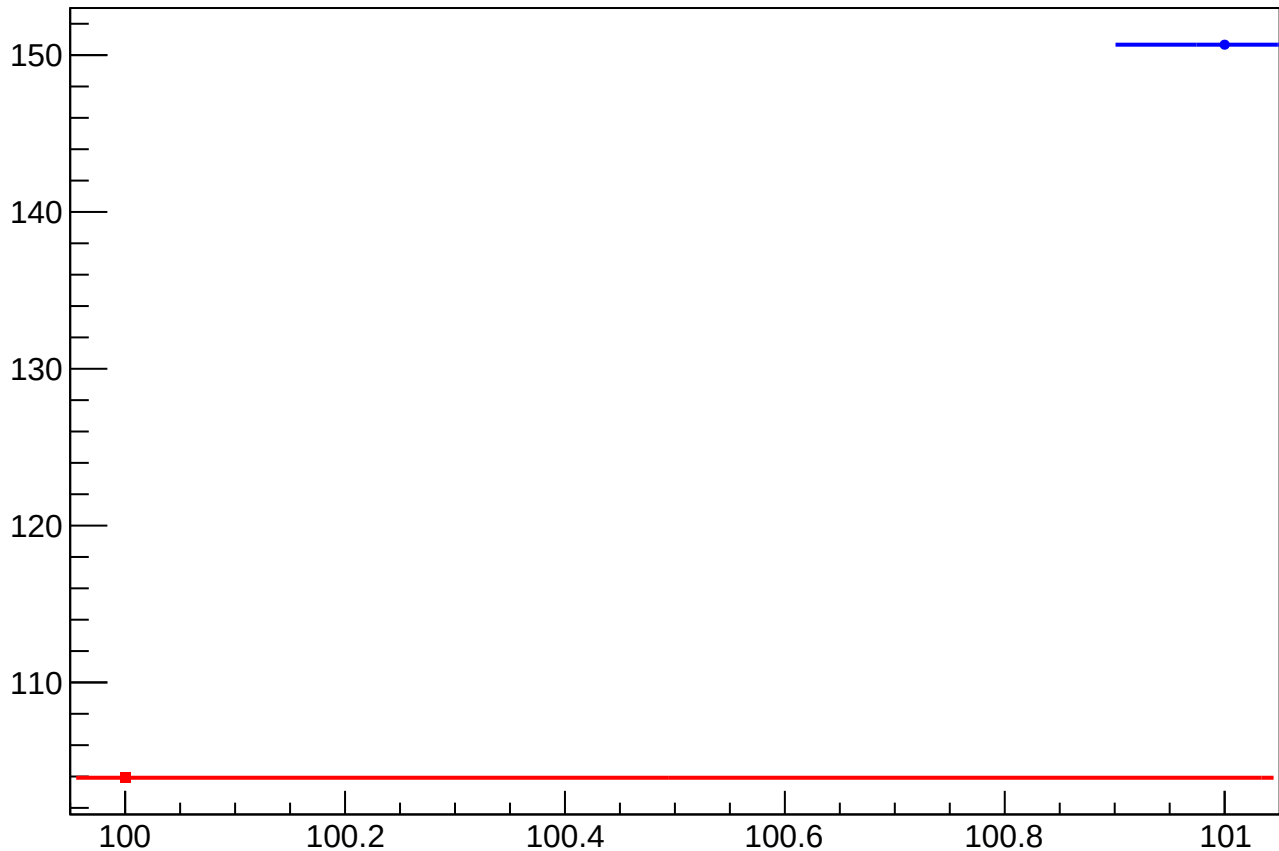
Right: 5324.719 $\pm$ 4.511  $\chi^2$ /NDF: 15234.3/1

In: 5579.997 $\pm$ 4.962  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5324.719 $\pm$ 4.511  $\chi^2$ /NDF: 15234.3/1

# yield\_bcm\_an\_ds\_mean vs Slug, Sign Corrected



Right In: 150.665 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.922 $\pm$ 0.003  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

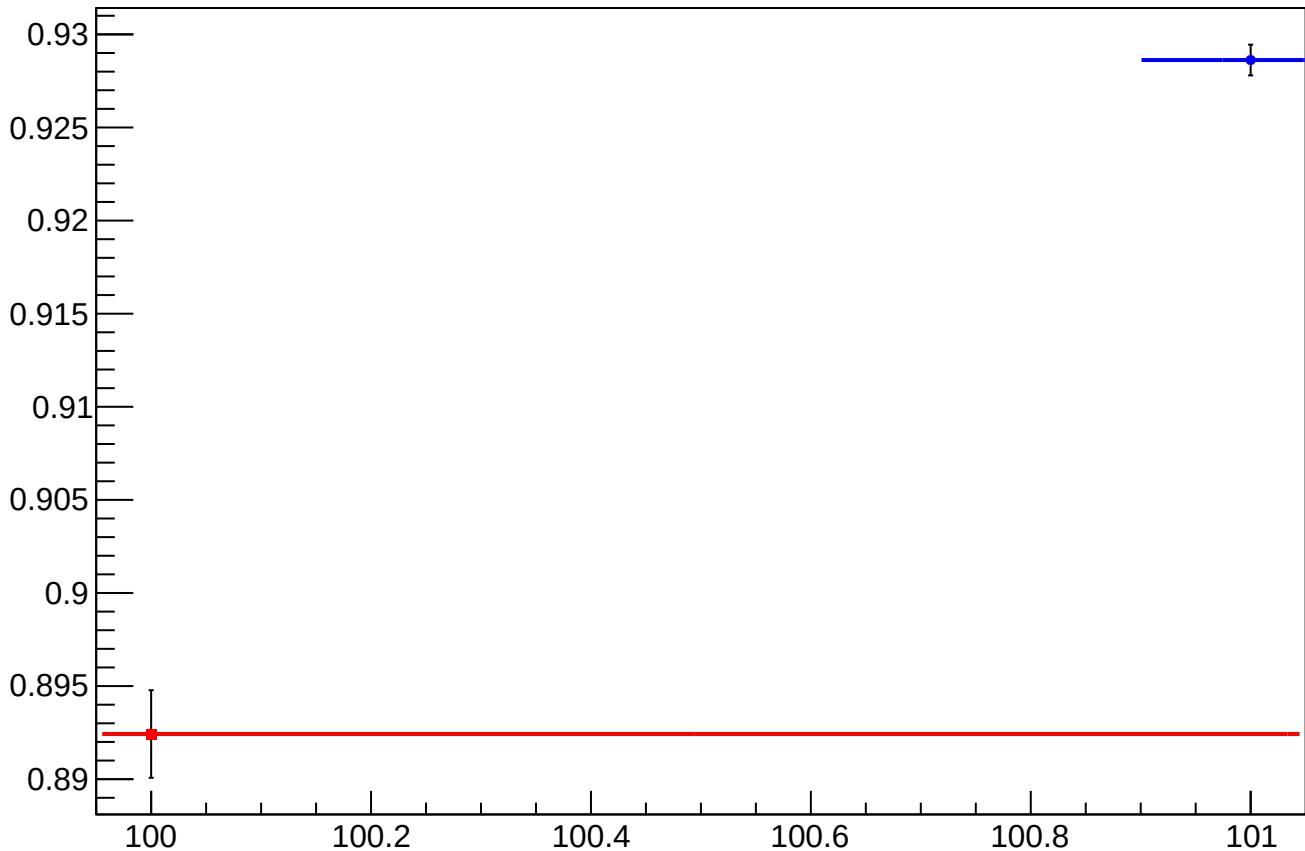
Right: 145.543 $\pm$ 0.001  $\chi^2$ /NDF: 175789985.7/1

In: 150.665 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.543 $\pm$ 0.001  $\chi^2$ /NDF: 175789985.7/1

# yield\_bcm\_an\_ds\_rms vs Slug, Sign Corrected



Right In: 0.929 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.892 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

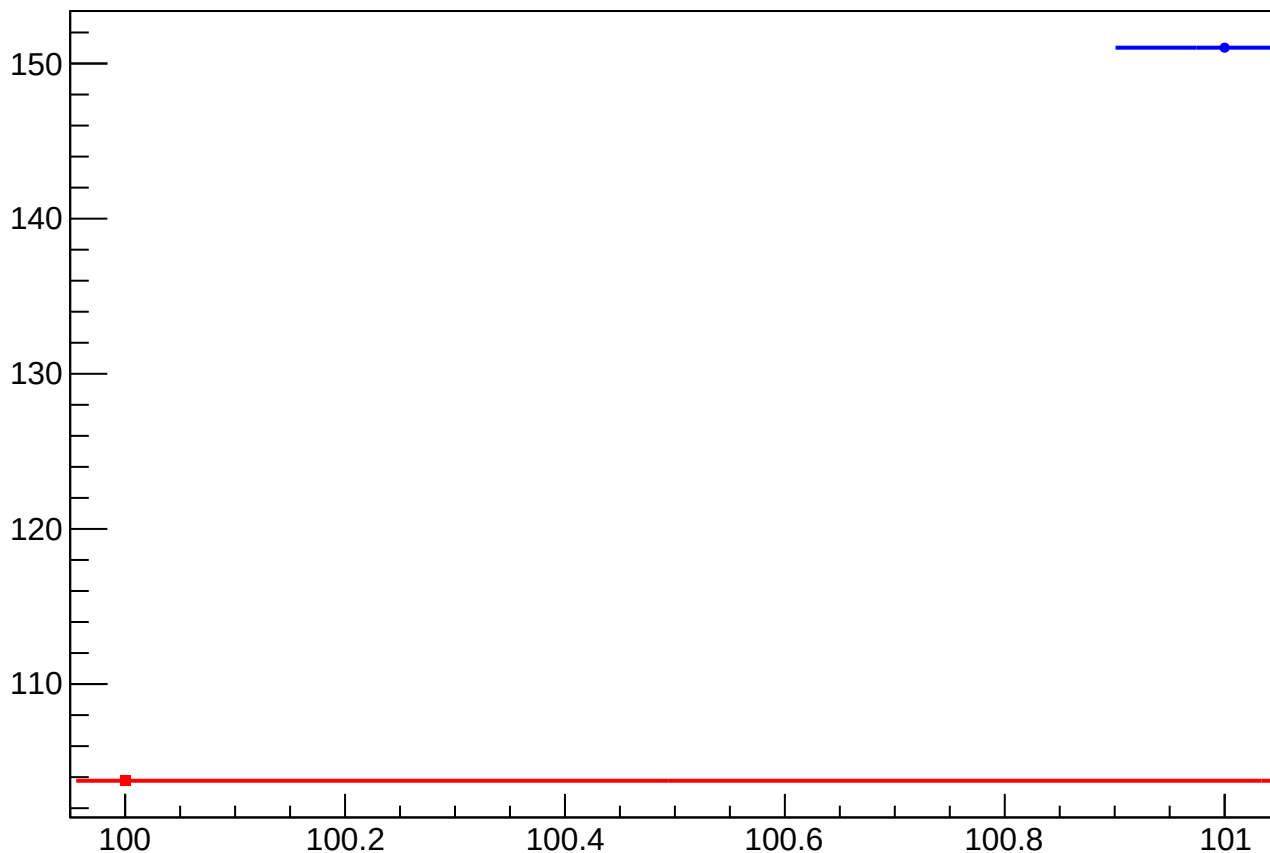
Right: 0.925 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 210.8/1

In: 0.929 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.925 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 210.8/1

yield\_bcm\_an\_ds3\_mean vs Slug, Sign Corrected



Right In: 151.020 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.768 $\pm$ 0.003  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

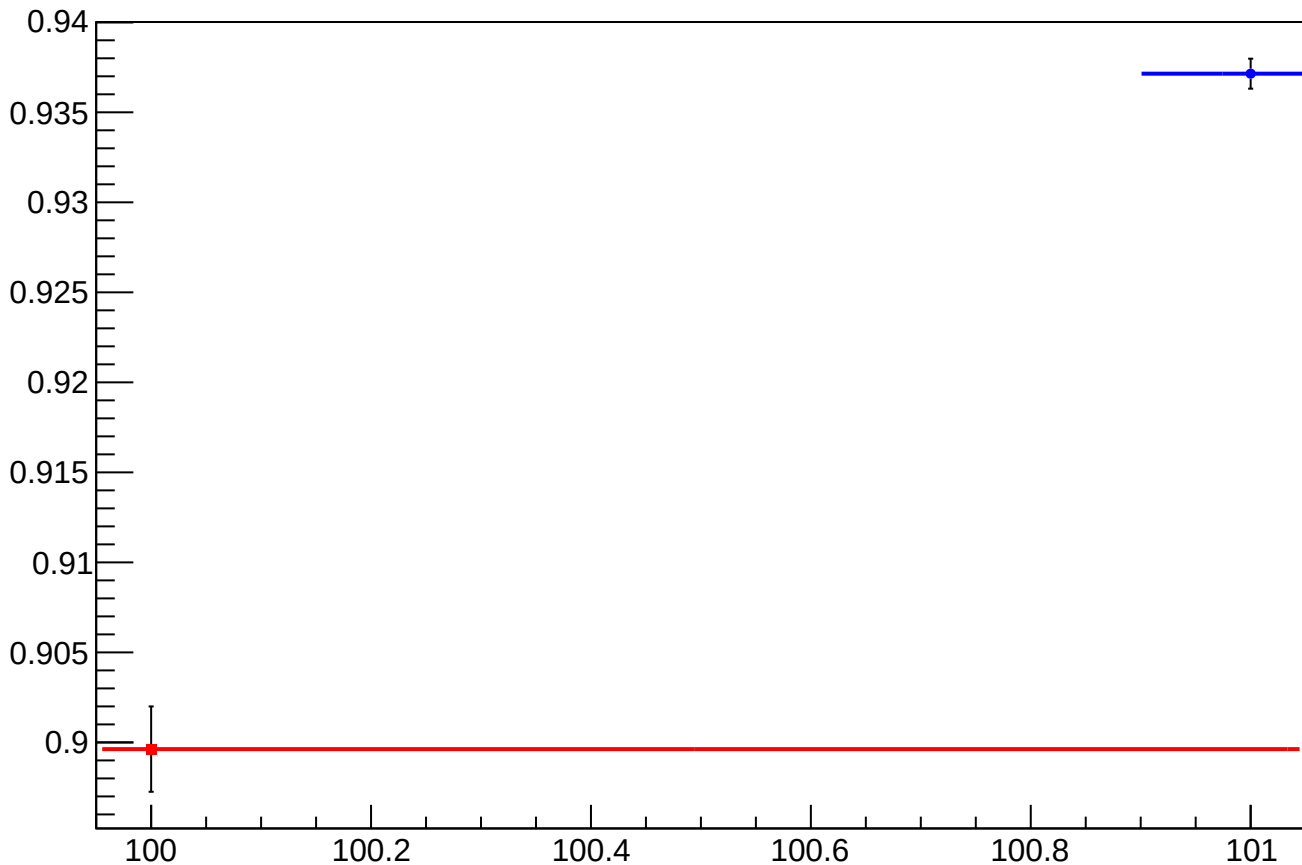
Right: 145.832 $\pm$ 0.001  $\chi^2$ /NDF: 176740235.1/1

In: 151.020 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.832 $\pm$ 0.001  $\chi^2$ /NDF: 176740235.1/1

# yield\_bcm\_an\_ds3\_rms vs Slug, Sign Corrected



Right In: 0.937+/-0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.900+/-0.002  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.933+/-0.001  $\chi^2$ /NDF: 222.8/1

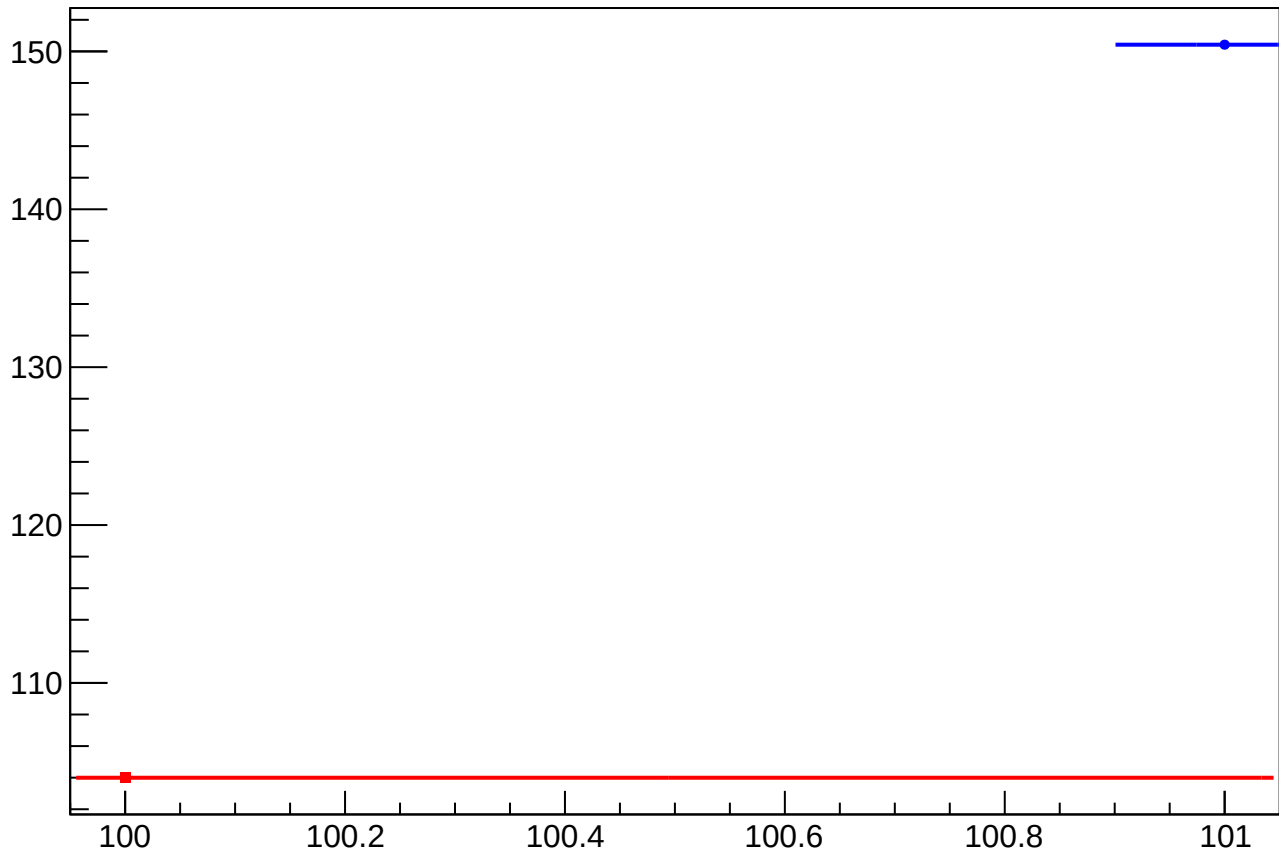
In: 0.937+/-0.001  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.933+/-0.001  $\chi^2$ /NDF: 222.8/1



# yield\_bcm\_an\_us\_mean vs Slug, Sign Corrected



Right In: 150.425 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.995 $\pm$ 0.003  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

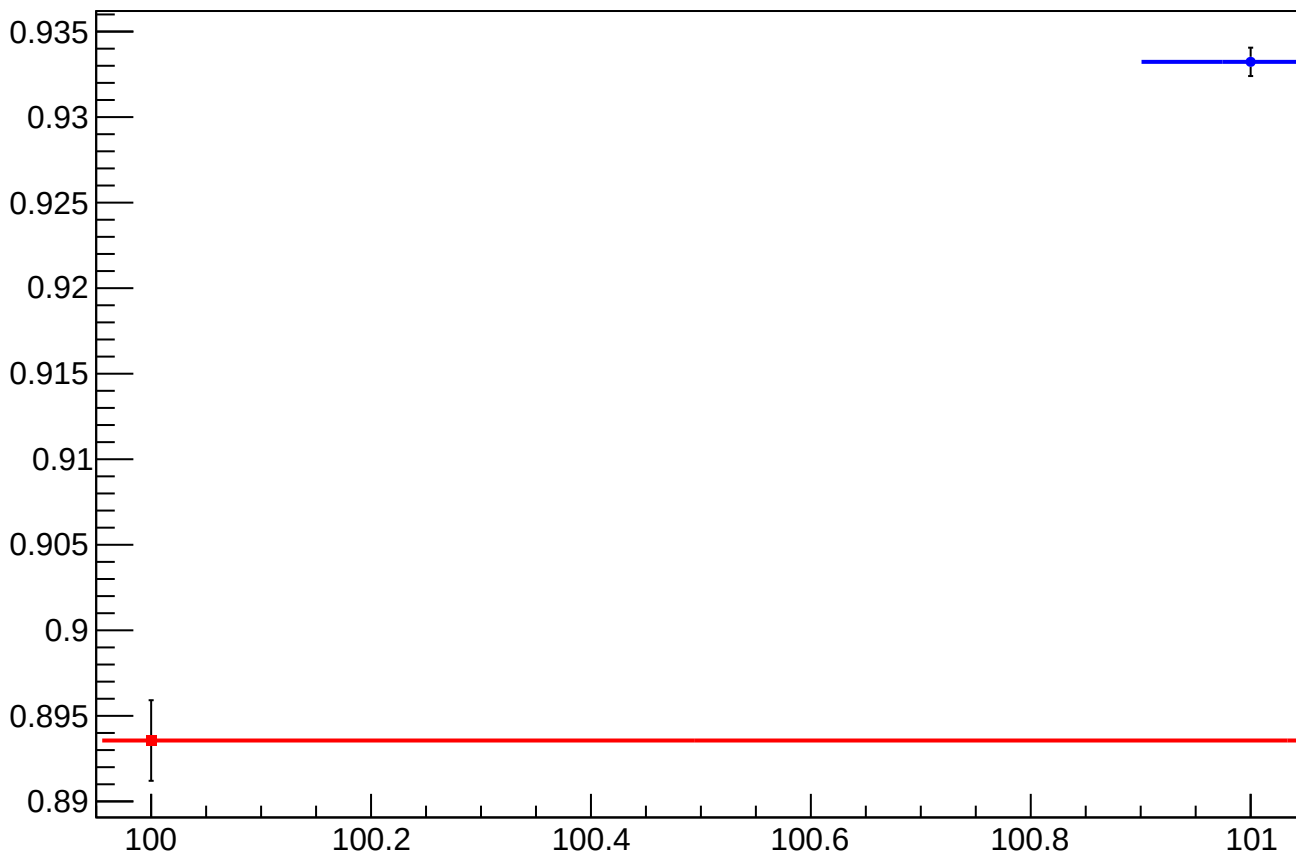
Right: 145.303 $\pm$ 0.001  $\chi^2$ /NDF: 172873286.7/1

In: 150.425 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.303 $\pm$ 0.001  $\chi^2$ /NDF: 172873286.7/1

# yield\_bcm\_an\_us\_rms vs Slug, Sign Corrected



Right In: 0.933 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.894 $\pm$ 0.002  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

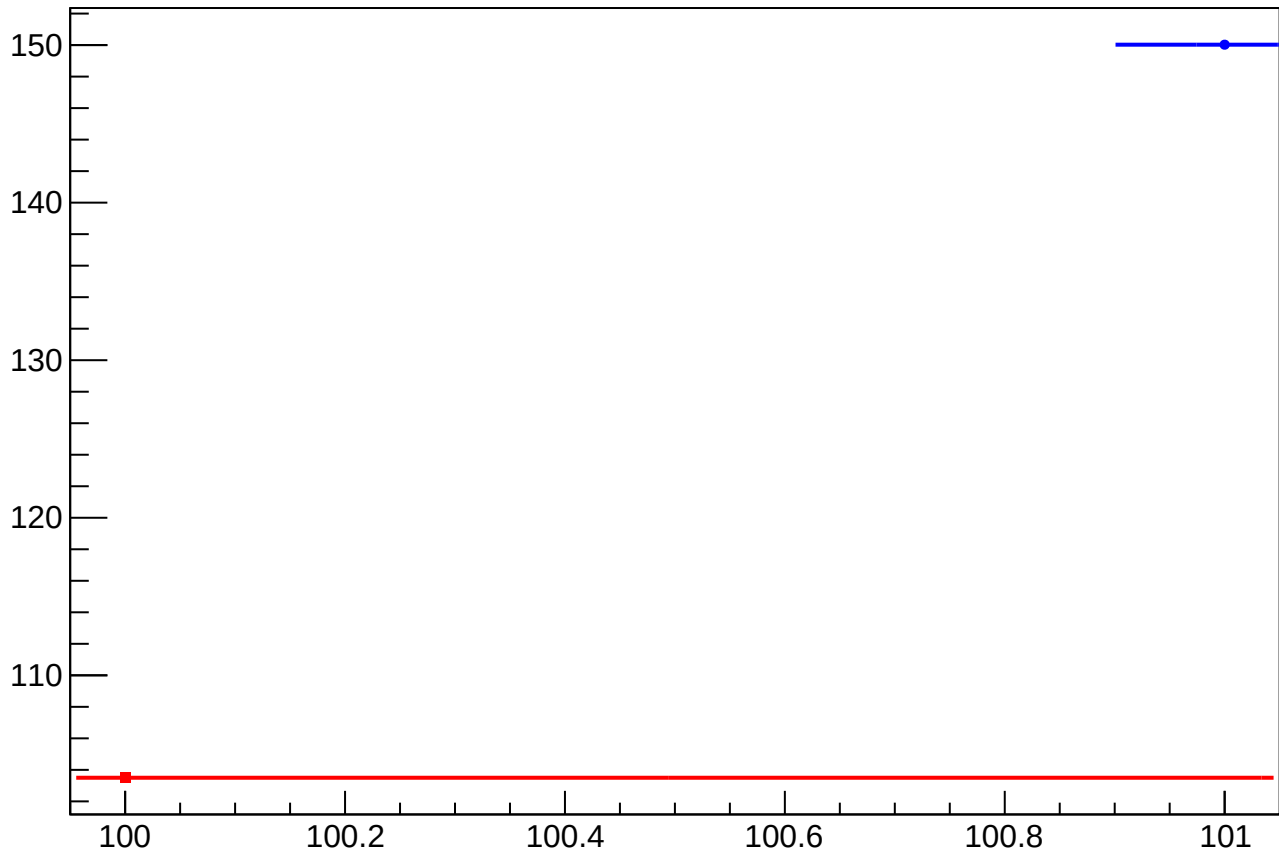
Right: 0.929 $\pm$ 0.001  $\chi^2$ /NDF: 252.4/1

In: 0.933 $\pm$ 0.001  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.929 $\pm$ 0.001  $\chi^2$ /NDF: 252.4/1

# yield\_bcm\_dg\_us\_mean vs Slug, Sign Corrected



Right In: 150.025 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 103.499 $\pm$ 0.003  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

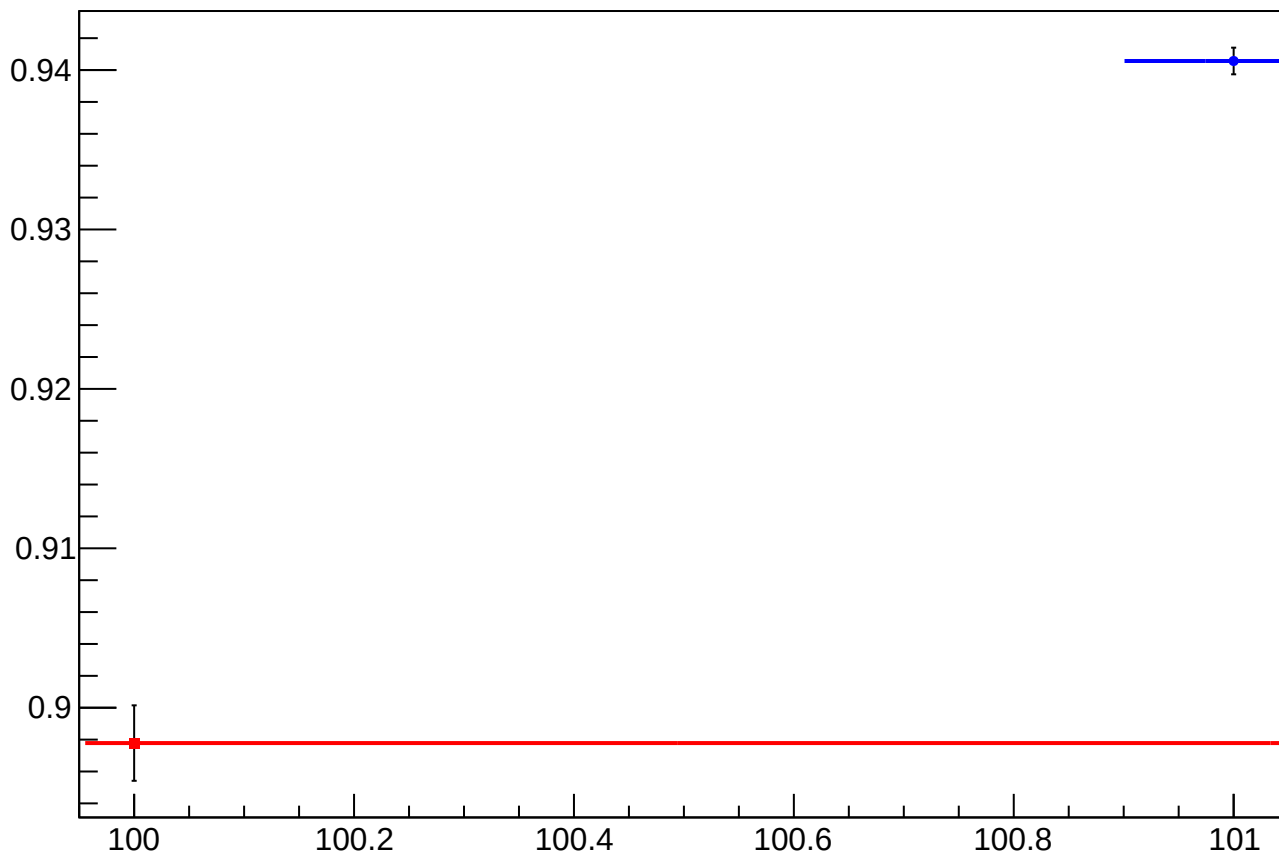
Right: 144.867 $\pm$ 0.001  $\chi^2$ /NDF: 171793186.7/1

In: 150.025 $\pm$ 0.001  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 144.867 $\pm$ 0.001  $\chi^2$ /NDF: 171793186.7/1

# yield\_bcm\_dg\_us\_rms vs Slug, Sign Corrected



Right In: 0.941 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.898 $\pm$ 0.002  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

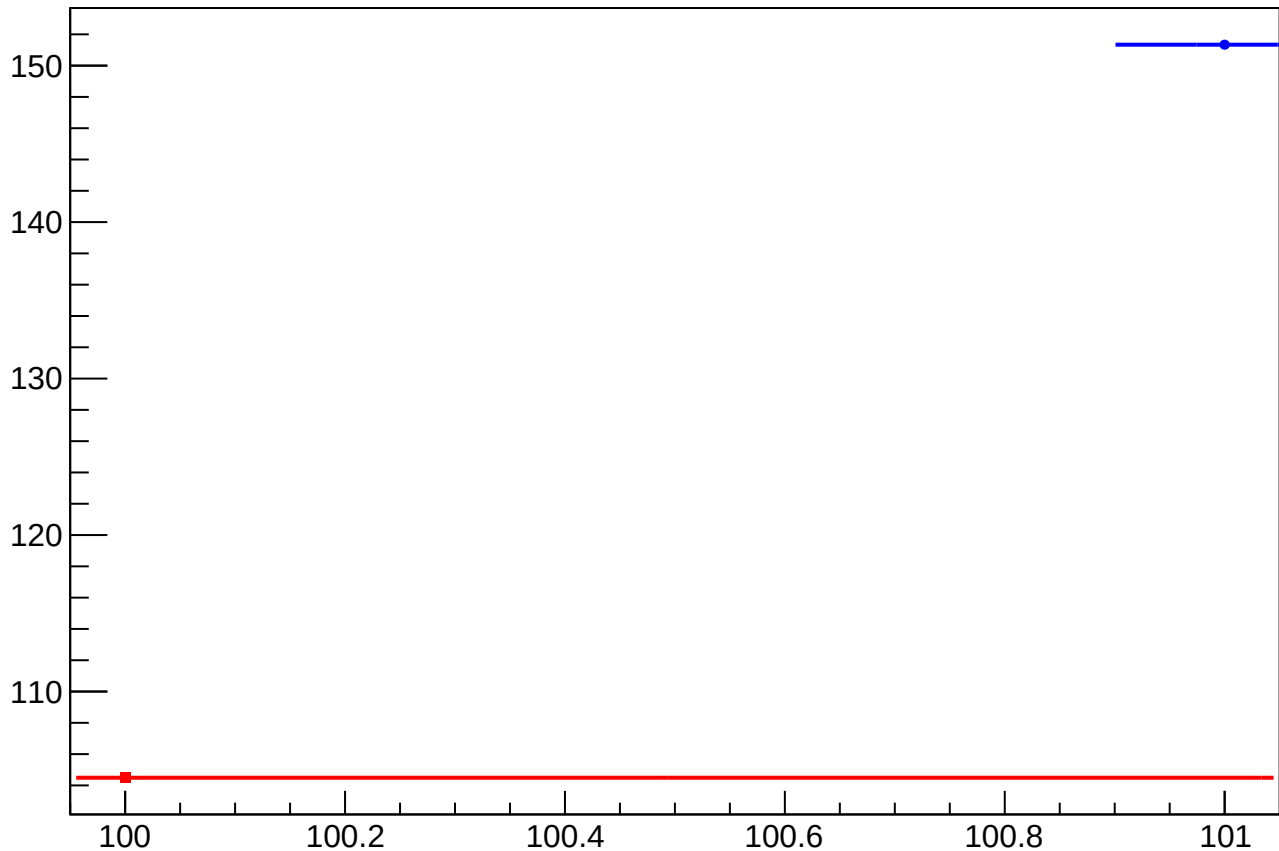
Right: 0.936 $\pm$ 0.001  $\chi^2$ /NDF: 290.6/1

In: 0.941 $\pm$ 0.001  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.936 $\pm$ 0.001  $\chi^2$ /NDF: 290.6/1

# yield\_bcm\_dg\_ds\_mean vs Slug, Sign Corrected



Right In: 151.338 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 104.490 $\pm$ 0.003  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

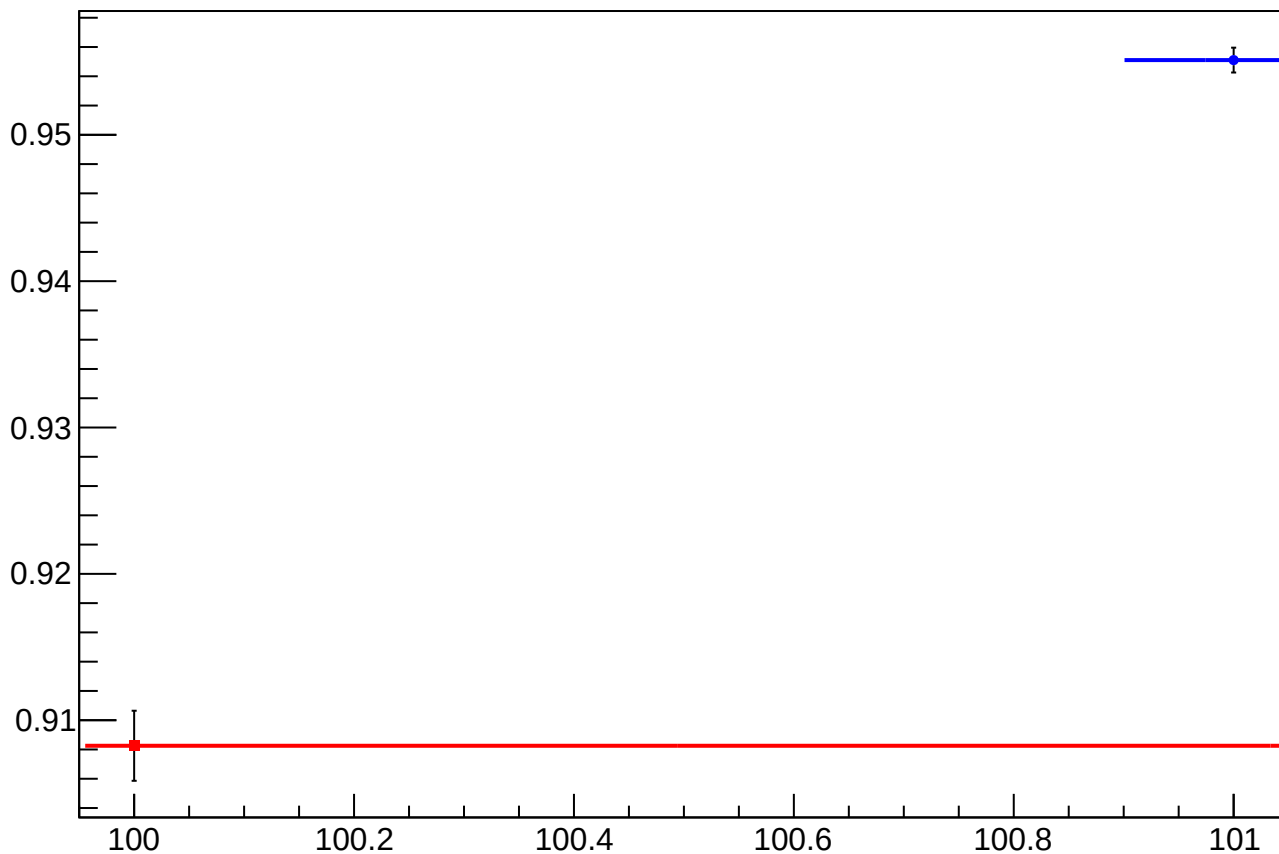
Right: 146.106 $\pm$ 0.001  $\chi^2$ /NDF: 170132709.4/1

In: 151.338 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146.106 $\pm$ 0.001  $\chi^2$ /NDF: 170132709.4/1

# yield\_bcm\_dg\_ds\_rms vs Slug, Sign Corrected



Right In: 0.955+/-0.001     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.908+/-0.002     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

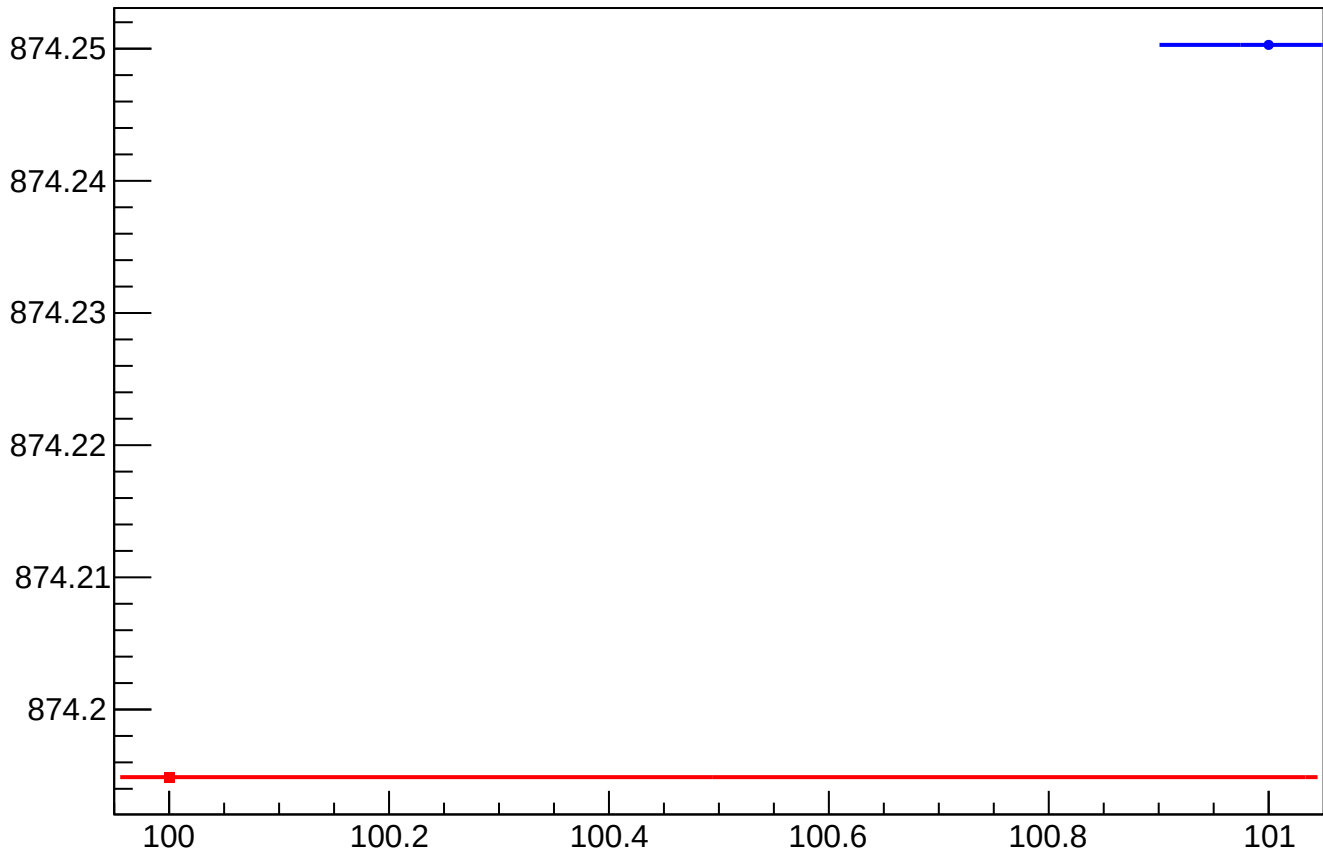
Right: 0.950+/-0.001     $\chi^2/\text{NDF}$ : 340.3/1

In: 0.955+/-0.001     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.950+/-0.001     $\chi^2/\text{NDF}$ : 340.3/1

# yield\_cav4bQ\_mean vs Slug, Sign Corrected



Right In: 874.250+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 874.195+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

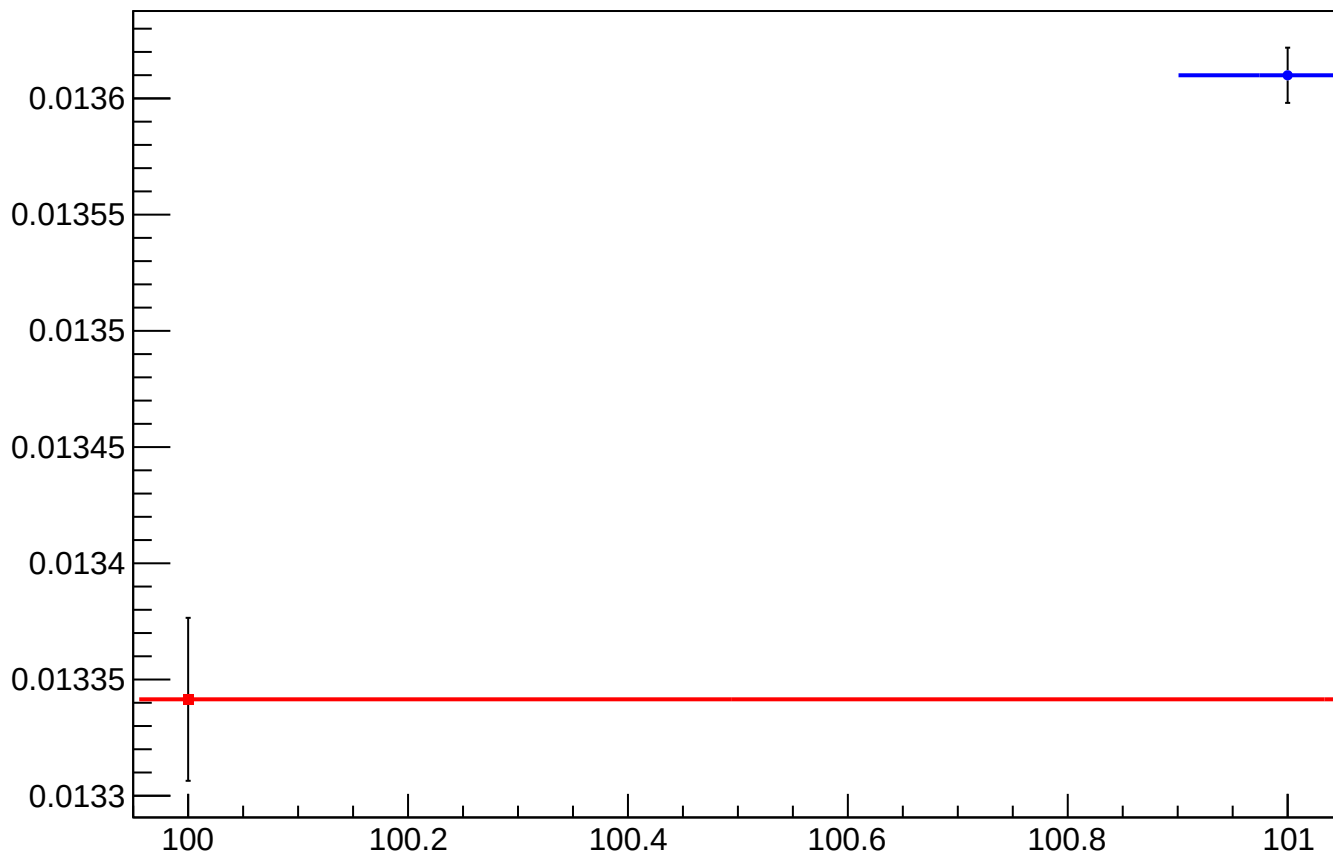
Right: 874.245+/-0.000  $\chi^2/\text{NDF}$ : 1120353.2/1

In: 874.250+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 874.245+/-0.000  $\chi^2/\text{NDF}$ : 1120353.2/1

# yield\_cav4bQ\_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 52.6/1

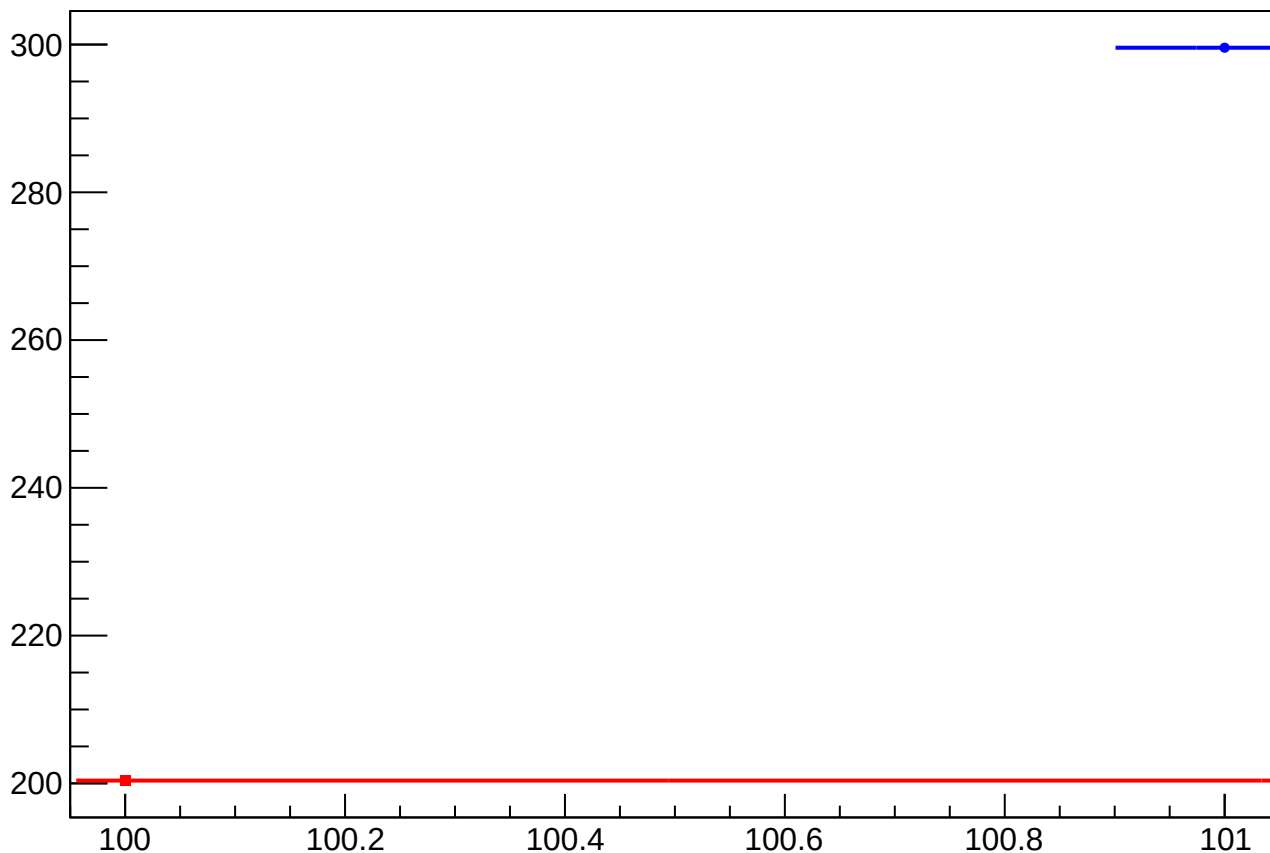
In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 52.6/1



# yield\_cav4cQ\_mean vs Slug, Sign Corrected



Right In: 299.569 $\pm$ 0.007  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 200.376 $\pm$ 0.029  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

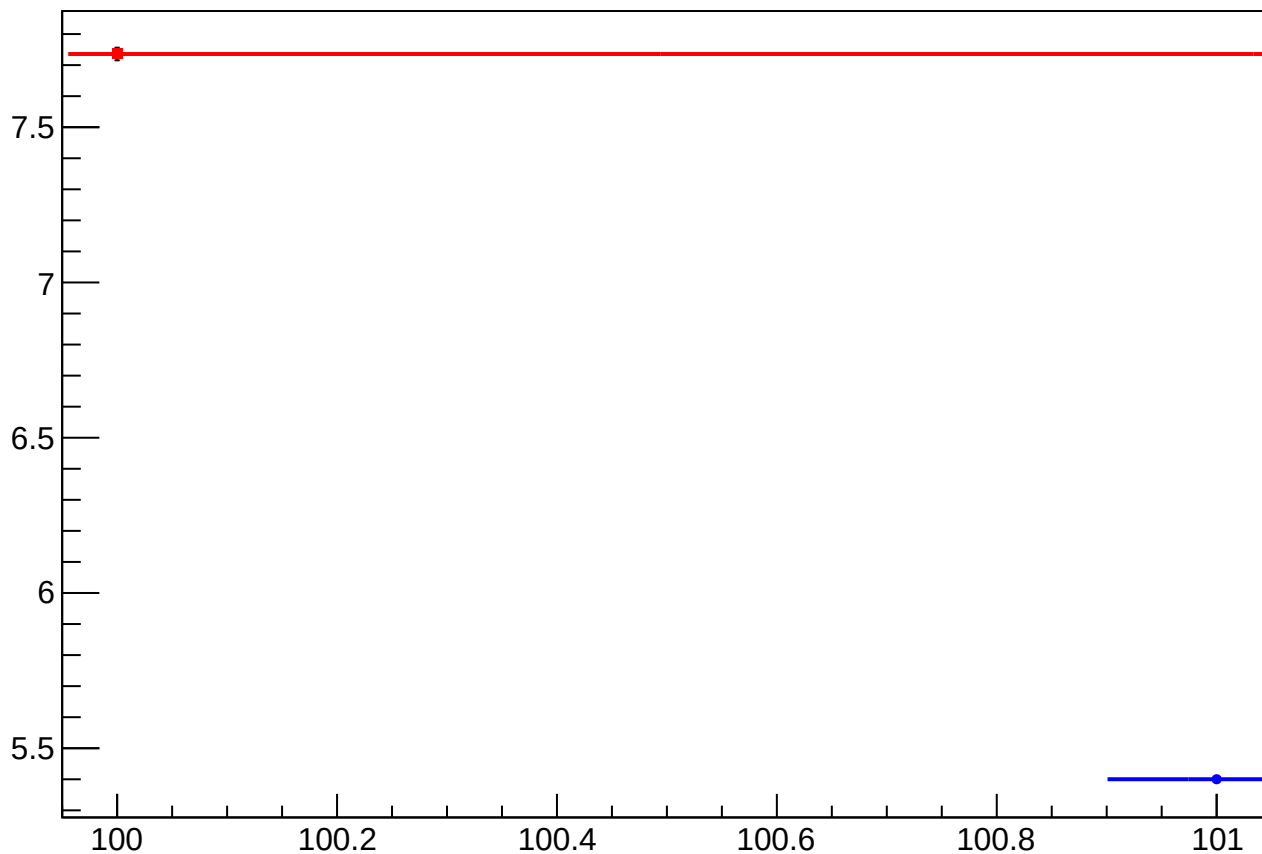
Right: 293.850 $\pm$ 0.007  $\chi^2$ /NDF: 11180906.7/1

In: 299.569 $\pm$ 0.007  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 293.850 $\pm$ 0.007  $\chi^2$ /NDF: 11180906.7/1

# yield\_cav4cQ\_rms vs Slug, Sign Corrected



Right In: 5.400 $\pm$ 0.005  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.736 $\pm$ 0.020  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

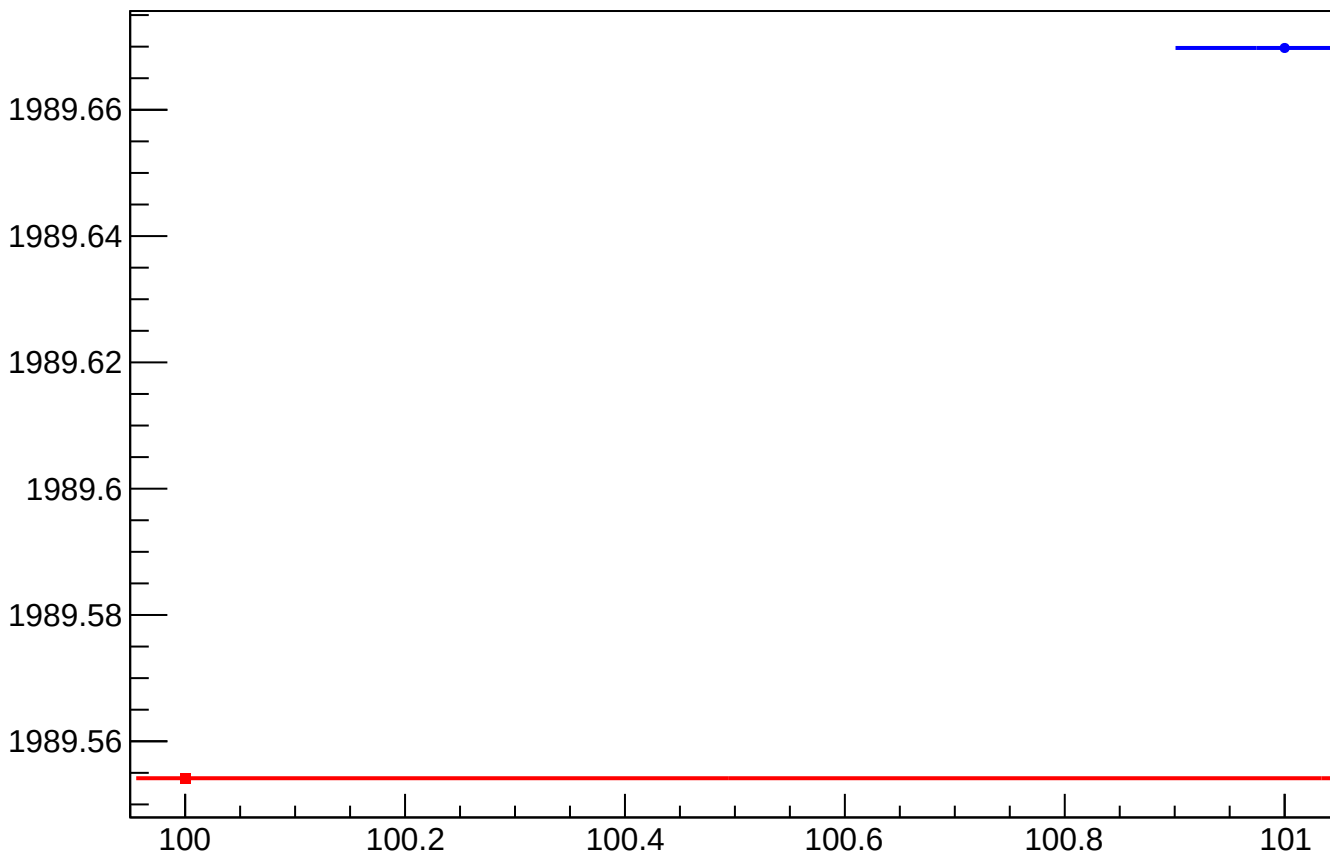
Right: 5.535 $\pm$ 0.005  $\chi^2$ /NDF: 12398.0/1

In: 5.400 $\pm$ 0.005  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.535 $\pm$ 0.005  $\chi^2$ /NDF: 12398.0/1

# yield\_cav4dQ\_mean vs Slug, Sign Corrected



Right In: 1989.670+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1989.554+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

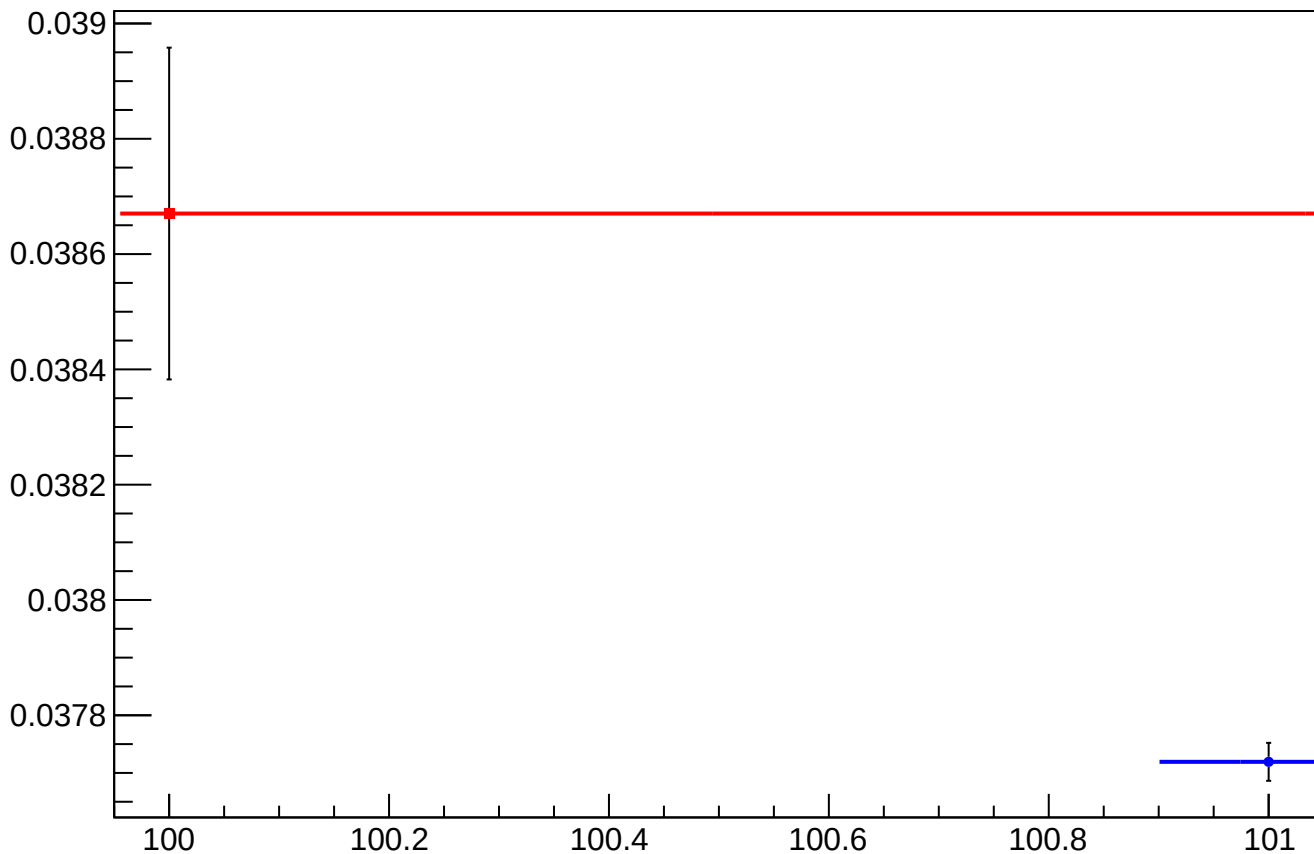
Right: 1989.668+/-0.000  $\chi^2/\text{NDF}$ : 79718.2/1

In: 1989.670+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1989.668+/-0.000  $\chi^2/\text{NDF}$ : 79718.2/1

# yield\_cav4dQ\_rms vs Slug, Sign Corrected



Right In: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

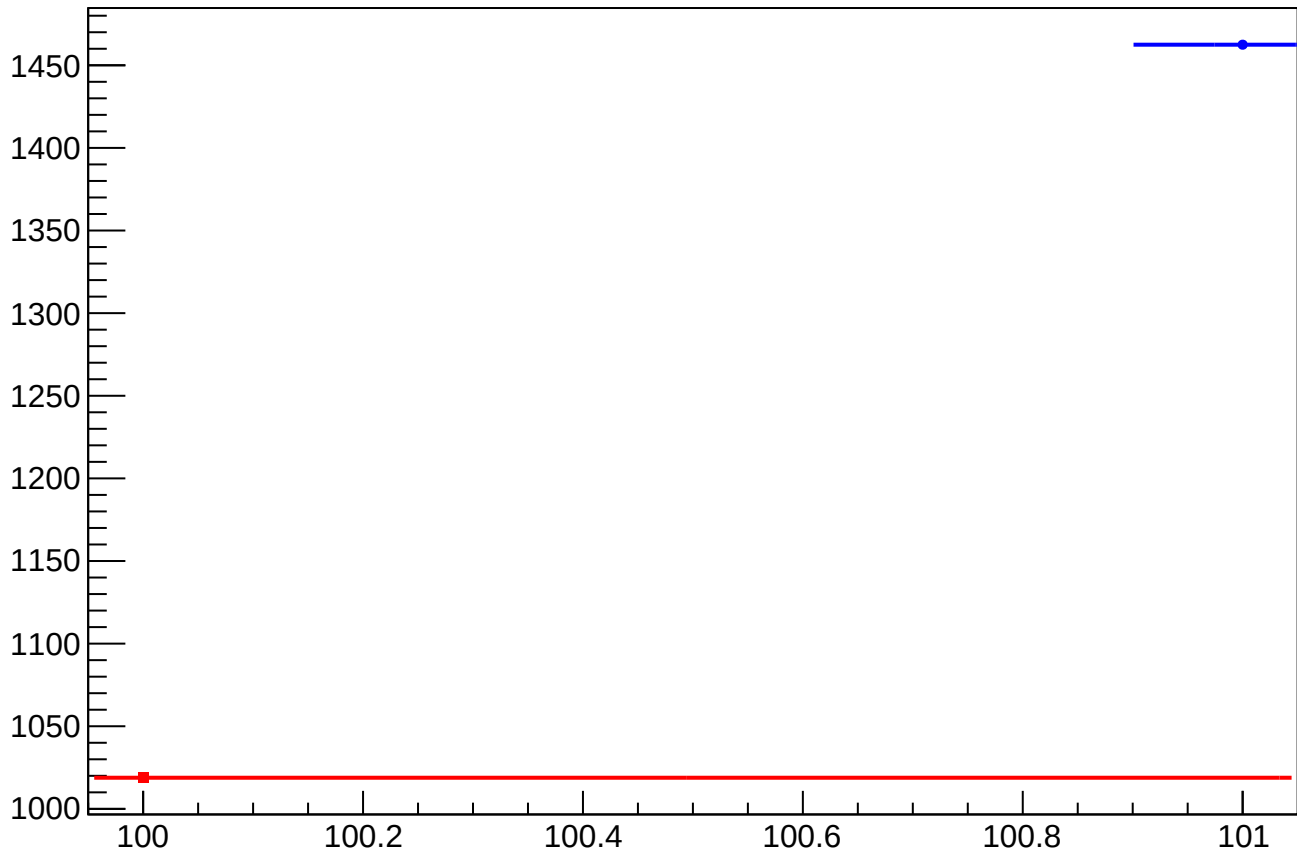
Right: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 10.8/1

In: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 10.8/1

yield\_bcm0l02\_mean vs Slug, Sign Corrected



Right In: 1462.459 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1018.841 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

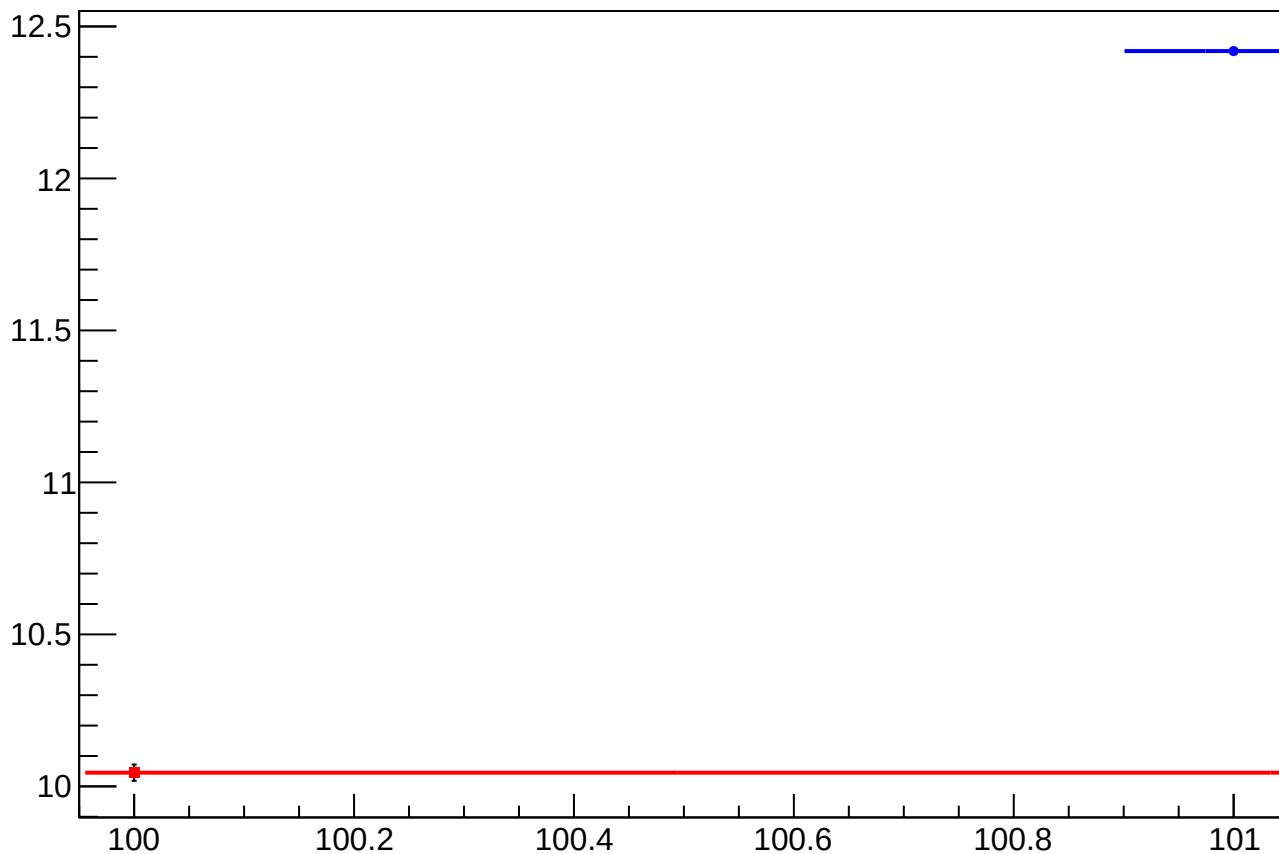
Right: 1397.039 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 117248966.3/1

In: 1462.459 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1397.039 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 117248966.3

# yield\_bcm0l02\_rms vs Slug, Sign Corrected



Right In: 12.419 $\pm$ 0.011  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.045 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

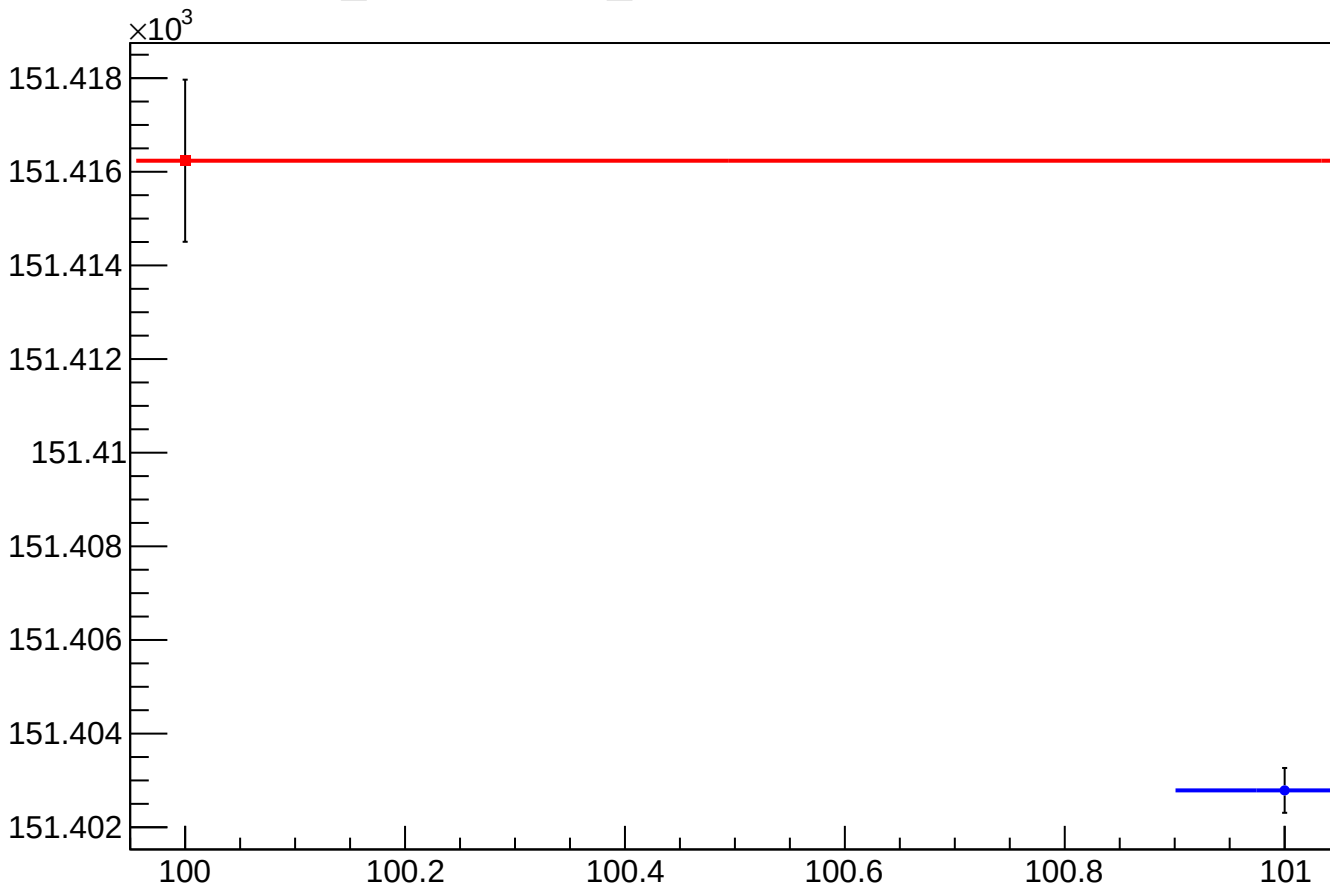
Right: 12.069 $\pm$ 0.010  $\chi^2$ /NDF: 6715.1/1

In: 12.419 $\pm$ 0.011  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.069 $\pm$ 0.010  $\chi^2$ /NDF: 6715.1/1

# yield\_bpm2i01WS\_mean vs Slug, Sign Corrected



Right In: 151402.787+/-0.479  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 151416.236+/-1.731  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

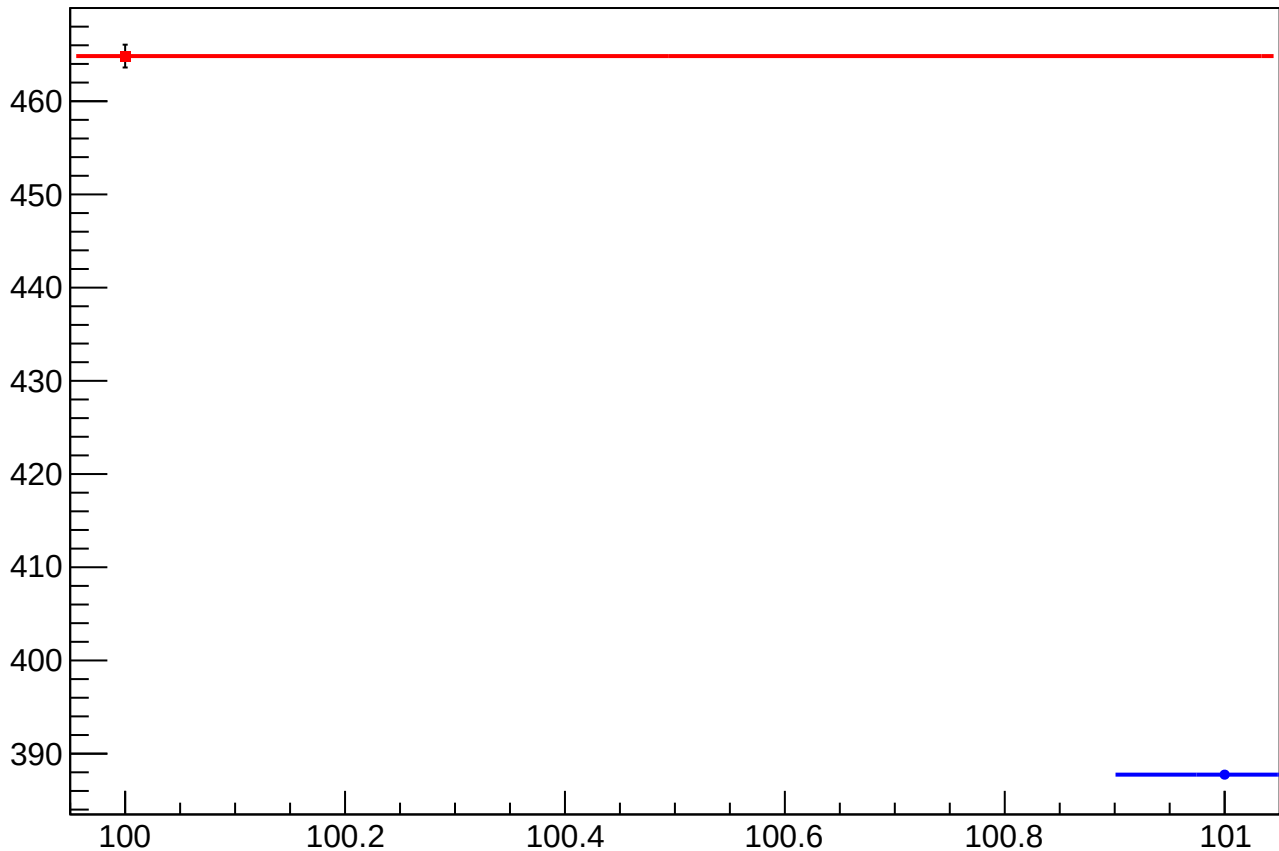
Right: 151403.743+/-0.461  $\chi^2$ /NDF: 56.1/1

In: 151402.787+/-0.479  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 151403.743+/-0.461  $\chi^2$ /NDF: 56.1/1

# yield\_bpm2i01WS\_rms vs Slug, Sign Corrected



Right In: 387.750 $\pm$ 0.338  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 464.842 $\pm$ 1.224  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 393.225 $\pm$ 0.326  $\chi^2/\text{NDF}$ : 3684.4/1

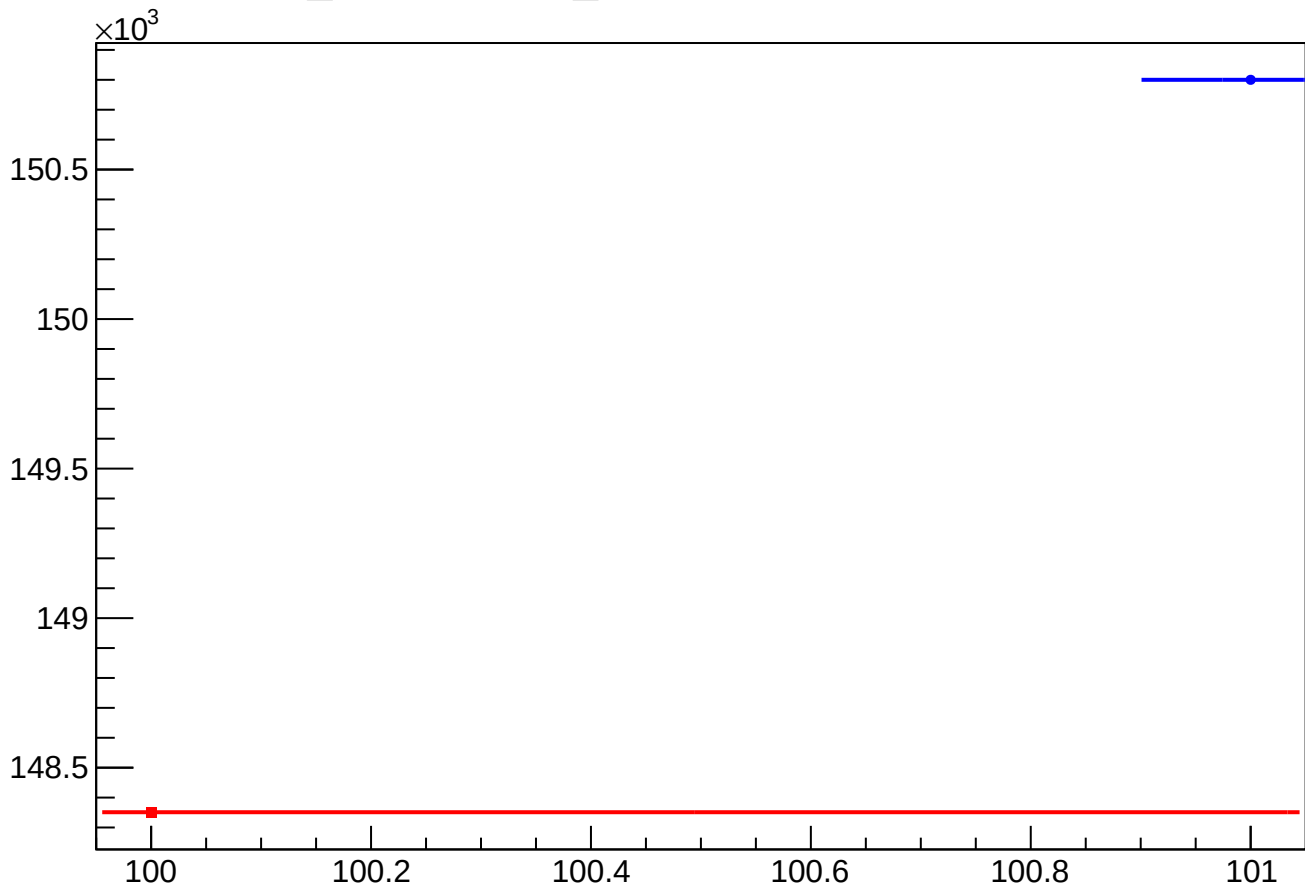
In: 387.750 $\pm$ 0.338  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 393.225 $\pm$ 0.326  $\chi^2/\text{NDF}$ : 3684.4/1



# yield\_bpm0i07WS\_mean vs Slug, Sign Corrected



Right In: 150800.026 $\pm$ 0.465  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 148351.060 $\pm$ 1.935  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

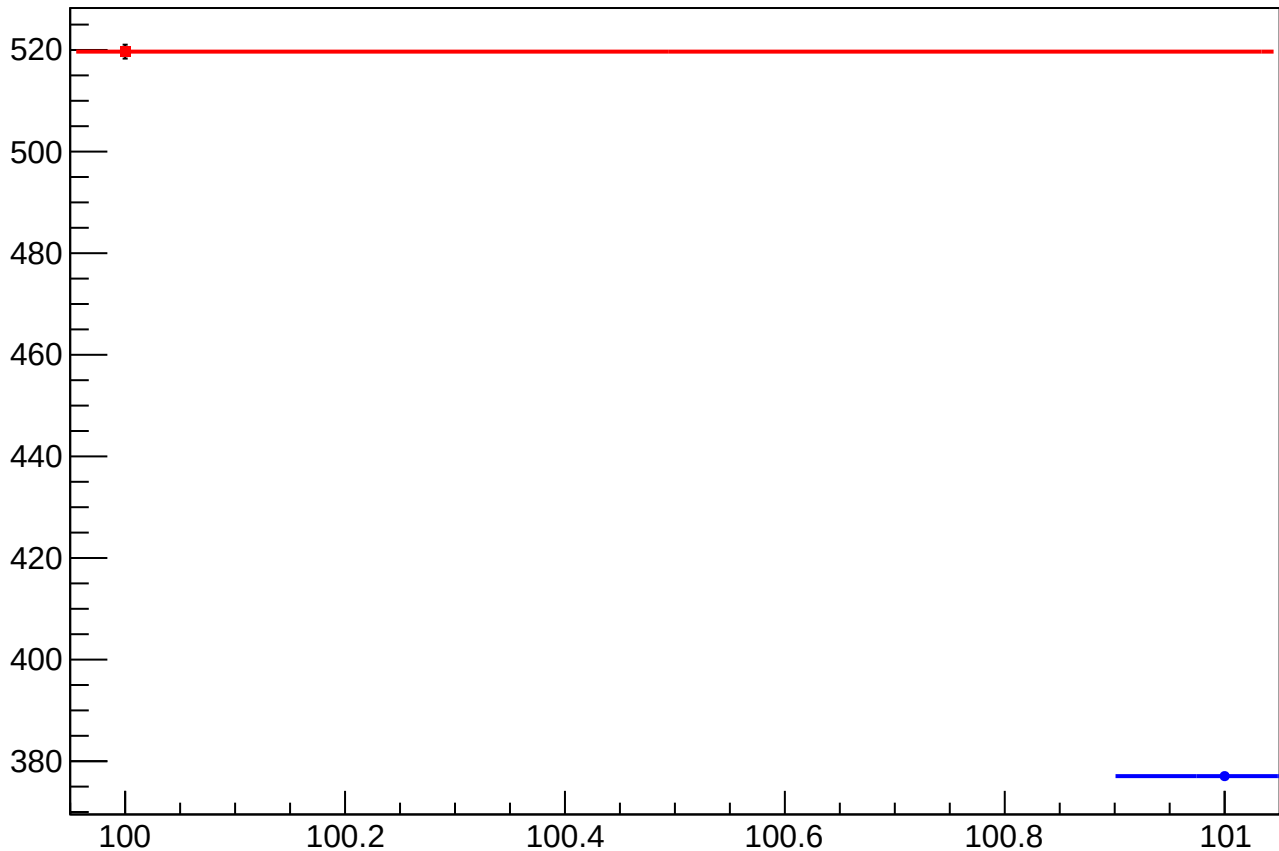
Right: 150666.082 $\pm$ 0.452  $\chi^2$ /NDF: 1514510.4/1

In: 150800.026 $\pm$ 0.465  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150666.082 $\pm$ 0.452  $\chi^2$ /NDF: 1514510.4

# yield\_bpm0i07WS\_rms vs Slug, Sign Corrected



Right In: 377.063+/-0.329  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 519.680+/-1.368  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

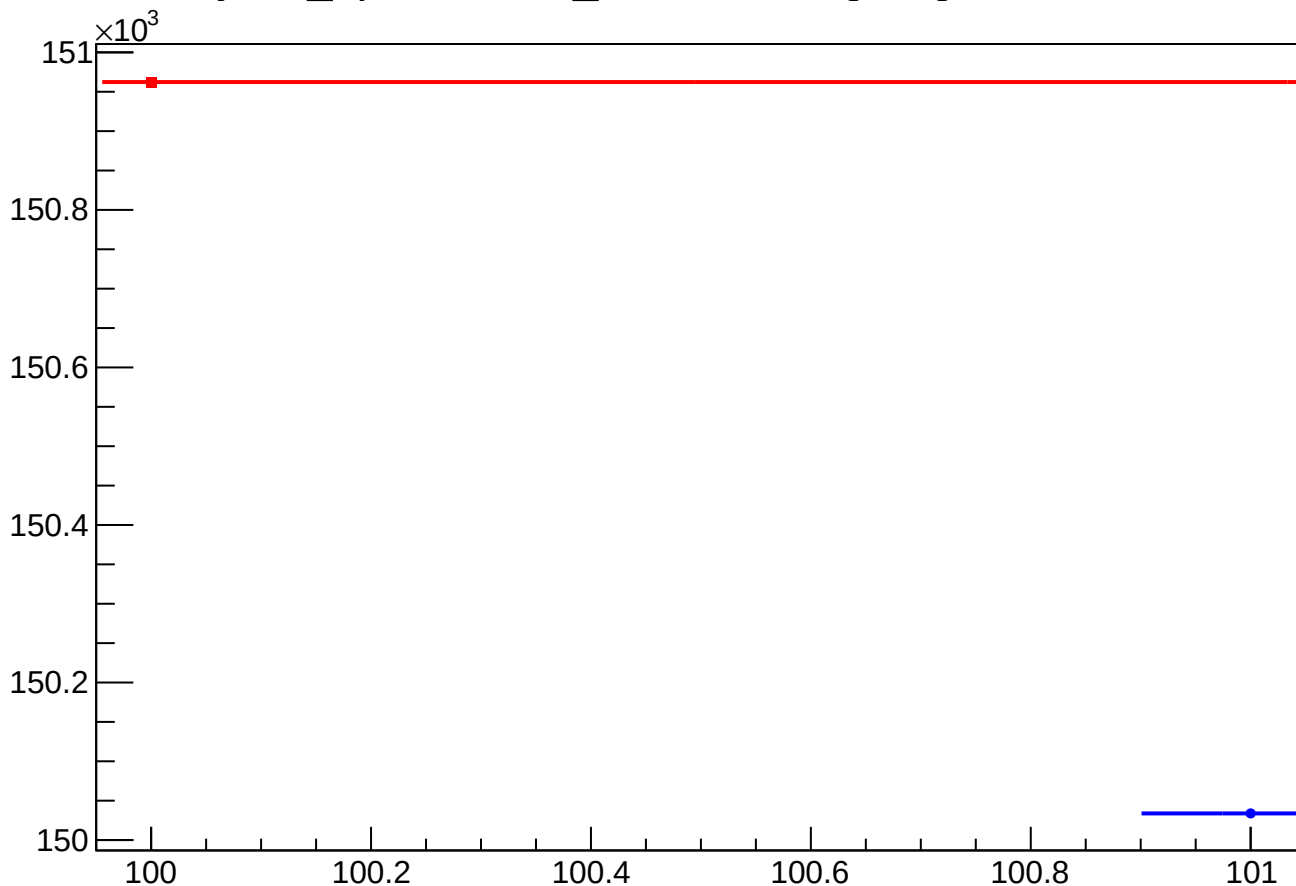
Right: 384.863+/-0.320  $\chi^2/\text{NDF}$ : 10272.5/1

In: 377.063+/-0.329  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 384.863+/-0.320  $\chi^2/\text{NDF}$ : 10272.5/1

yield\_bpm0i01WS\_mean vs Slug, Sign Corrected



Right In: 150033.813 $\pm$ 0.482  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 150962.317 $\pm$ 1.752  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

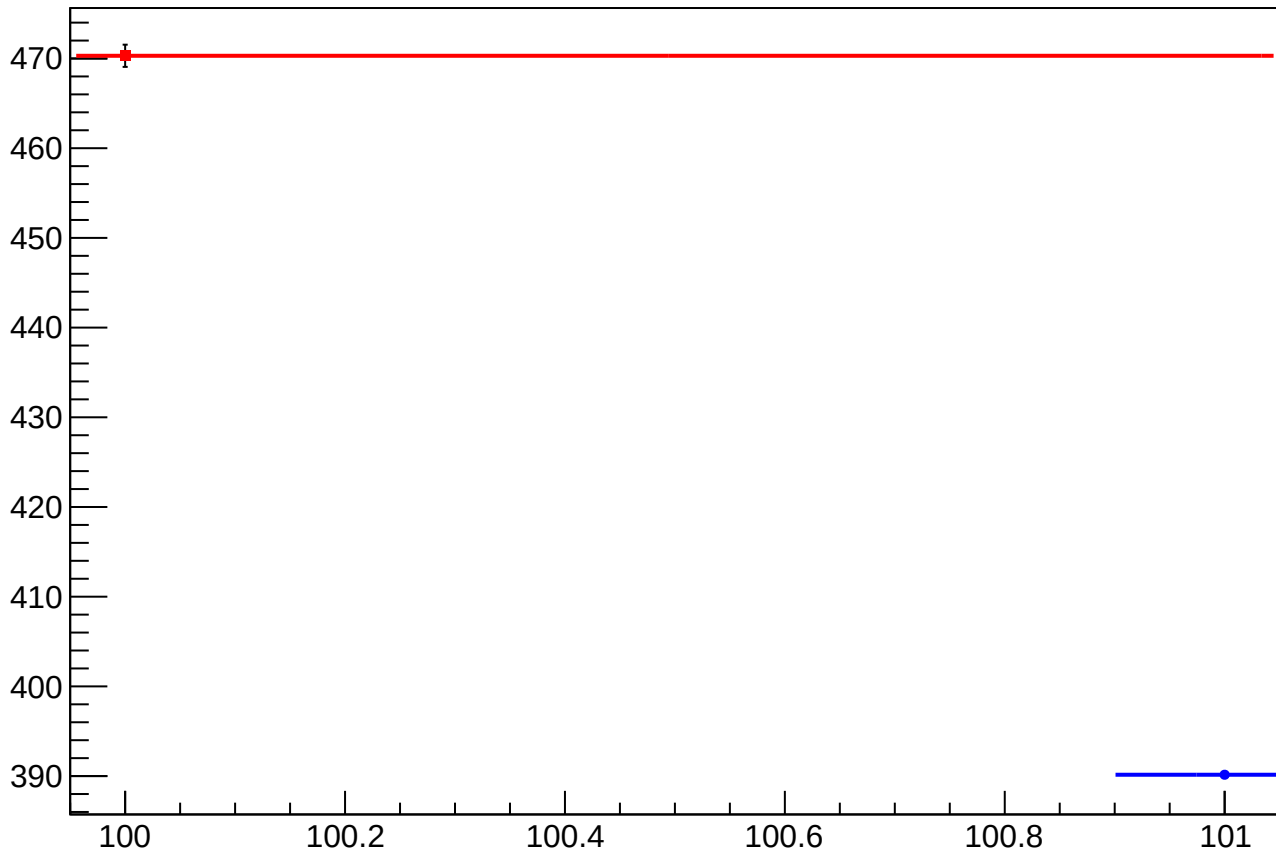
Right: 150099.080 $\pm$ 0.464  $\chi^2$ /NDF: 261270.3/1

In: 150033.813 $\pm$ 0.482  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150099.080 $\pm$ 0.464  $\chi^2$ /NDF: 261270.3/1

# yield\_bpm0i01WS\_rms vs Slug, Sign Corrected



Right In: 390.149+/-0.341  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 470.304+/-1.239  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

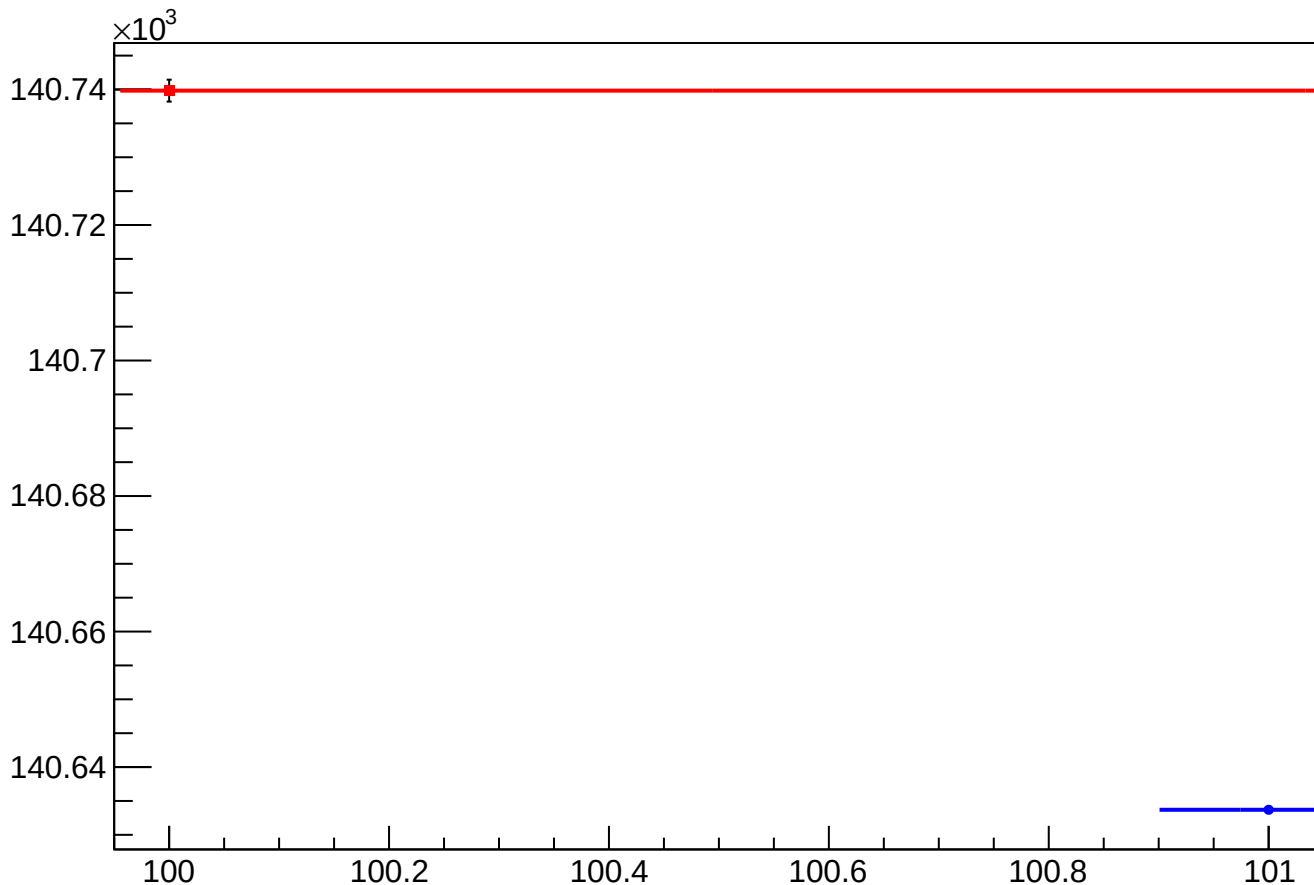
Right: 395.783+/-0.328  $\chi^2/\text{NDF}$ : 3894.2/1

In: 390.149+/-0.341  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 395.783+/-0.328  $\chi^2/\text{NDF}$ : 3894.2/1

yield\_bpm0i01aWS\_mean vs Slug, Sign Corrected



Right In: 140633.698 $\pm$ 0.446  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 140739.831 $\pm$ 1.618  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

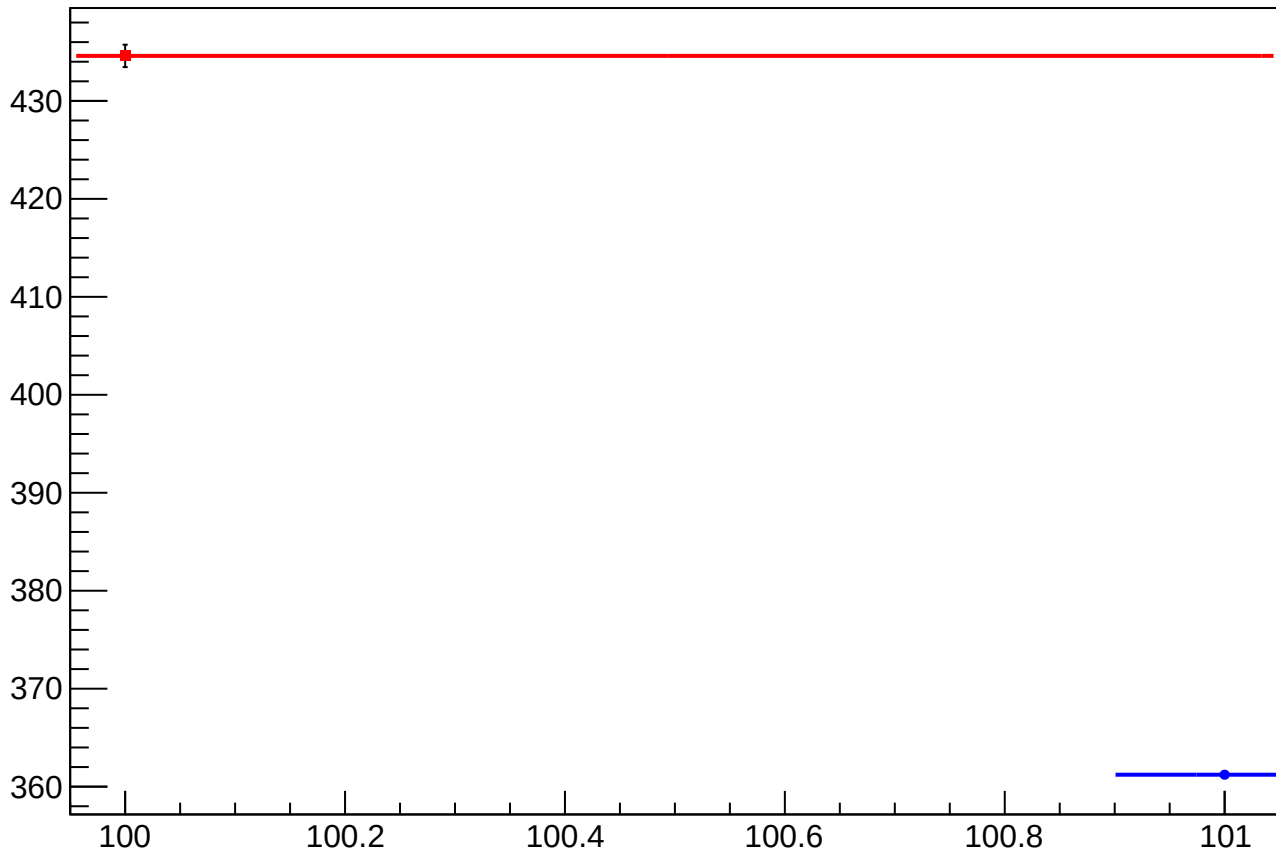
Right: 140641.187 $\pm$ 0.430  $\chi^2$ /NDF: 3997.4/1

In: 140633.698 $\pm$ 0.446  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 140641.187 $\pm$ 0.430  $\chi^2$ /NDF: 3997.4/1

# yield\_bpm0i01aWS\_rms vs Slug, Sign Corrected



Right In: 361.219+/-0.315  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 434.596+/-1.144  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

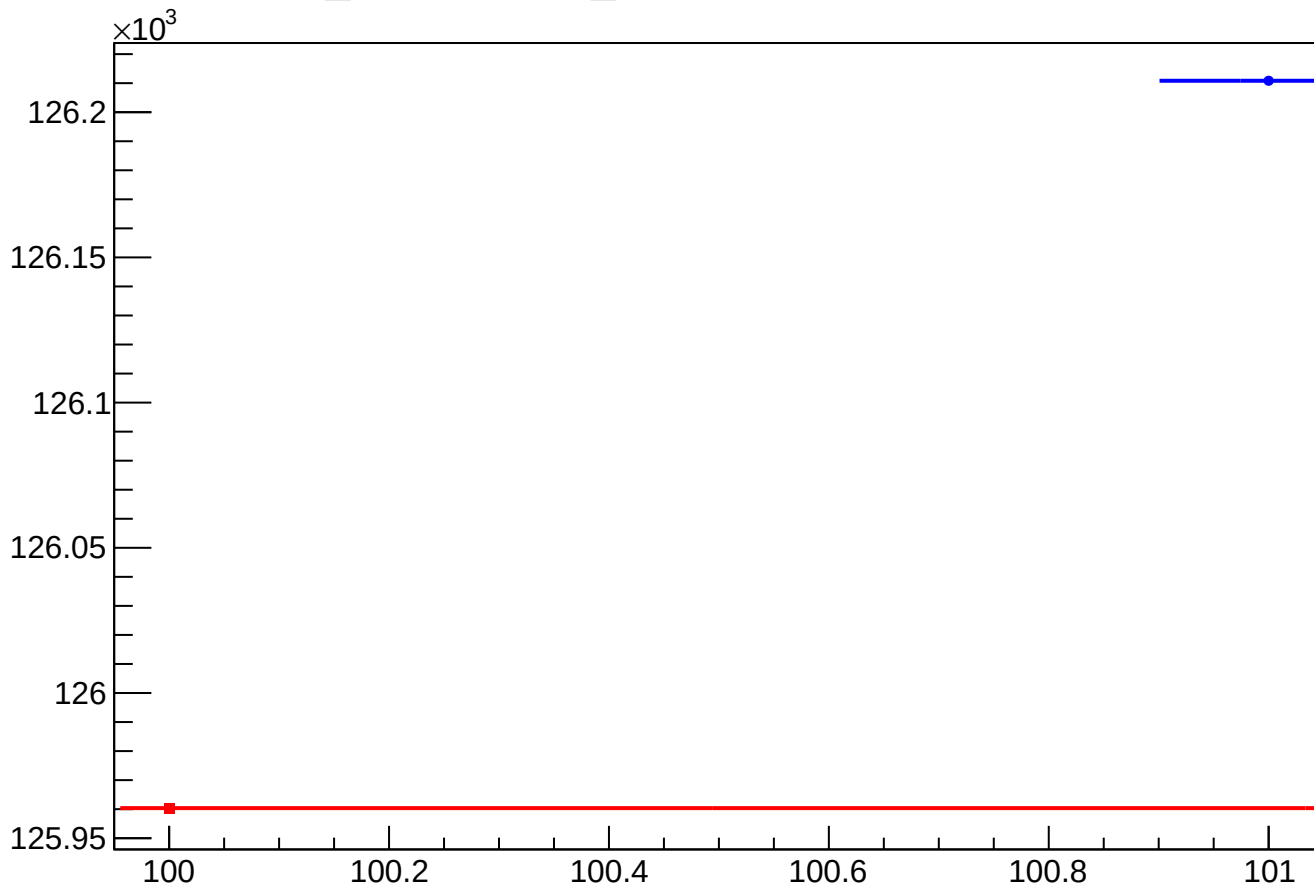
Right: 366.397+/-0.304  $\chi^2/\text{NDF}$ : 3821.4/1

In: 361.219+/-0.315  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 366.397+/-0.304  $\chi^2/\text{NDF}$ : 3821.4/1

# yield\_bpm0l01WS\_mean vs Slug, Sign Corrected



Right In: 126210.826 $\pm$ 0.376  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 125960.363 $\pm$ 1.612  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

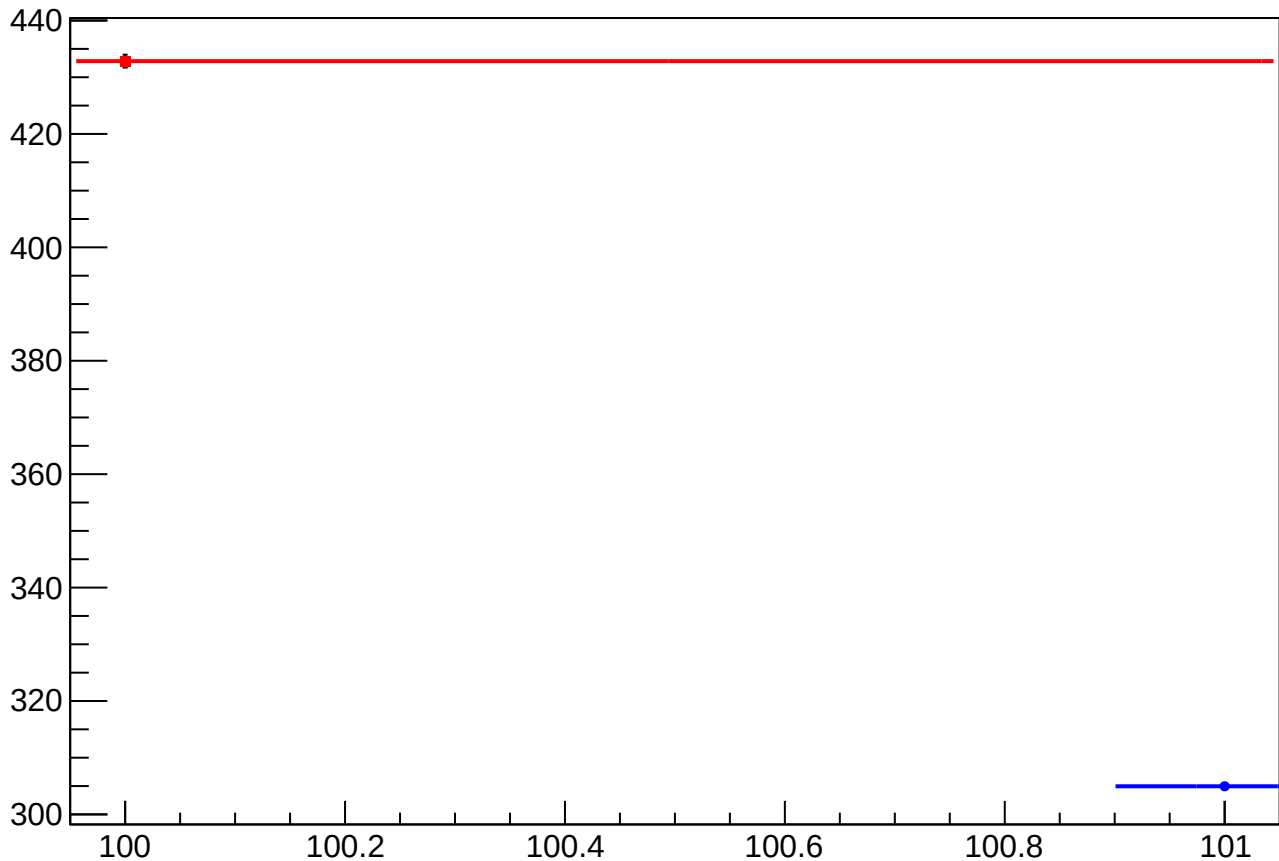
Right: 126197.881 $\pm$ 0.367  $\chi^2/\text{NDF}$ : 22881.2/1

In: 126210.826 $\pm$ 0.376  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126197.881 $\pm$ 0.367  $\chi^2/\text{NDF}$ : 22881.2/1

# yield\_bpm0l01WS\_rms vs Slug, Sign Corrected



Right In: 304.959+/-0.266  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 432.839+/-1.140  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 311.568+/-0.259  $\chi^2/\text{NDF}$ : 11929.8/1

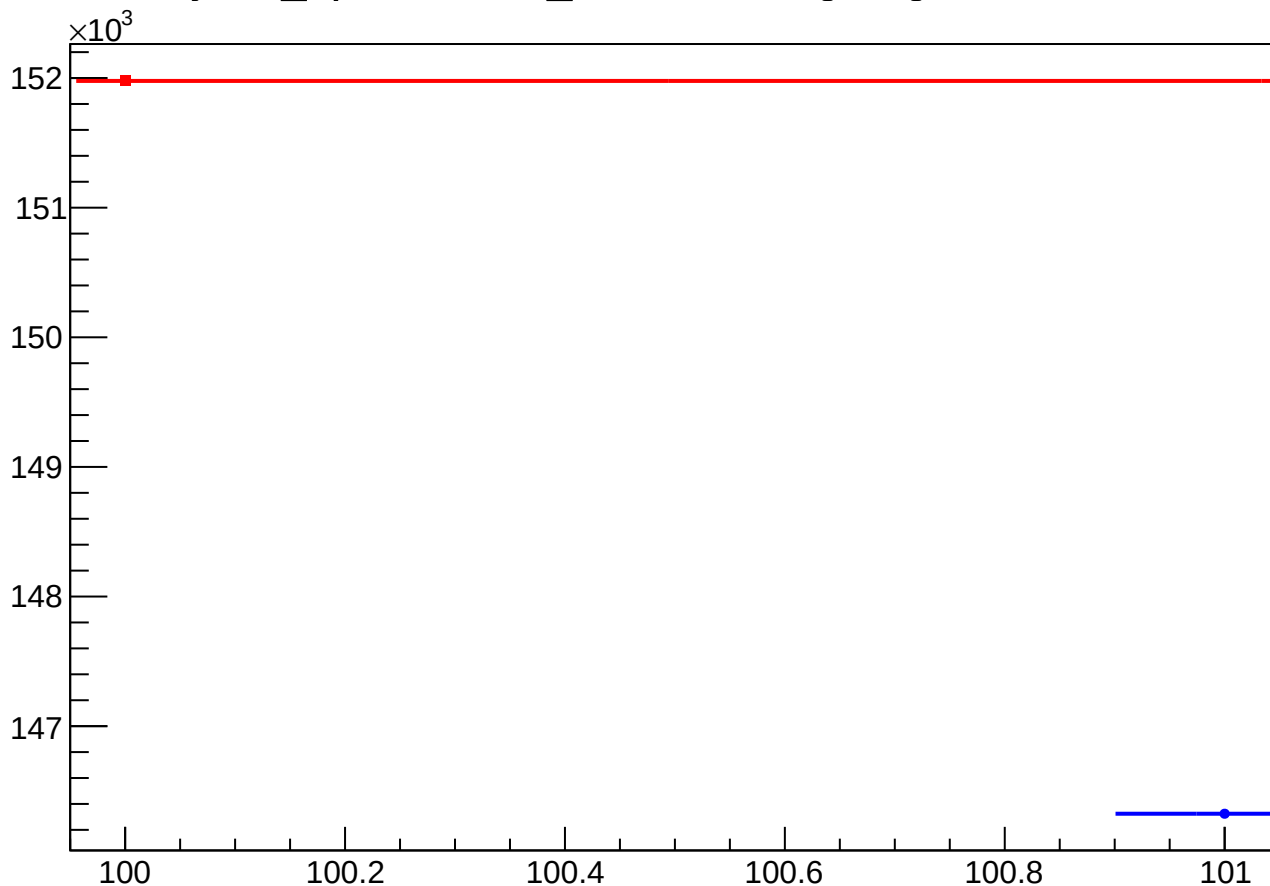
In: 304.959+/-0.266  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 311.568+/-0.259  $\chi^2/\text{NDF}$ : 11929.8/1



# yield\_bpm0l02WS\_mean vs Slug, Sign Corrected



Right In: 146324.409 $\pm$ 0.509  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 151977.869 $\pm$ 1.974  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

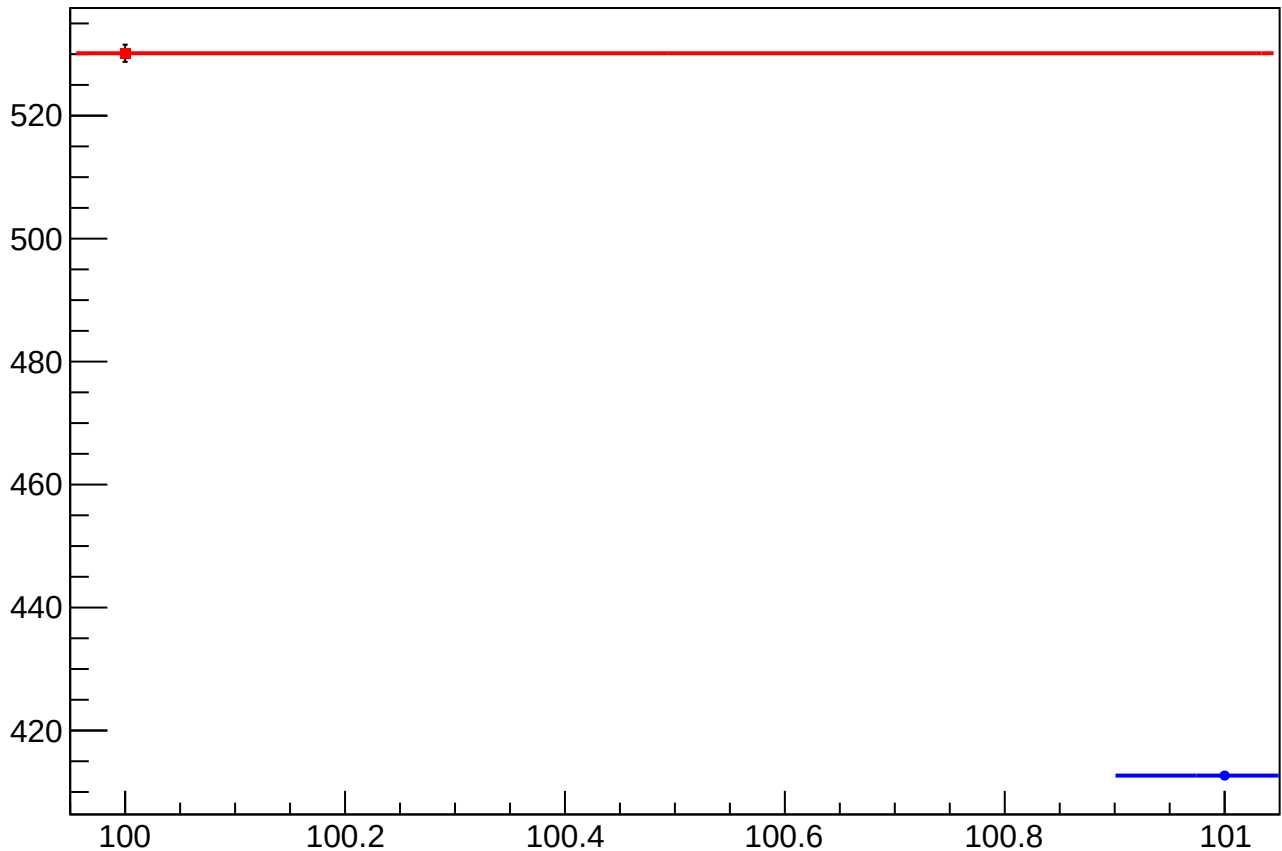
Right: 146677.163 $\pm$ 0.493  $\chi^2$ /NDF: 7689669.5/1

In: 146324.409 $\pm$ 0.509  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146677.163 $\pm$ 0.493  $\chi^2$ /NDF: 7689669.5

# yield\_bpm0l02WS\_rms vs Slug, Sign Corrected



Right In: 412.668 $\pm$ 0.360  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 530.151 $\pm$ 1.396  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

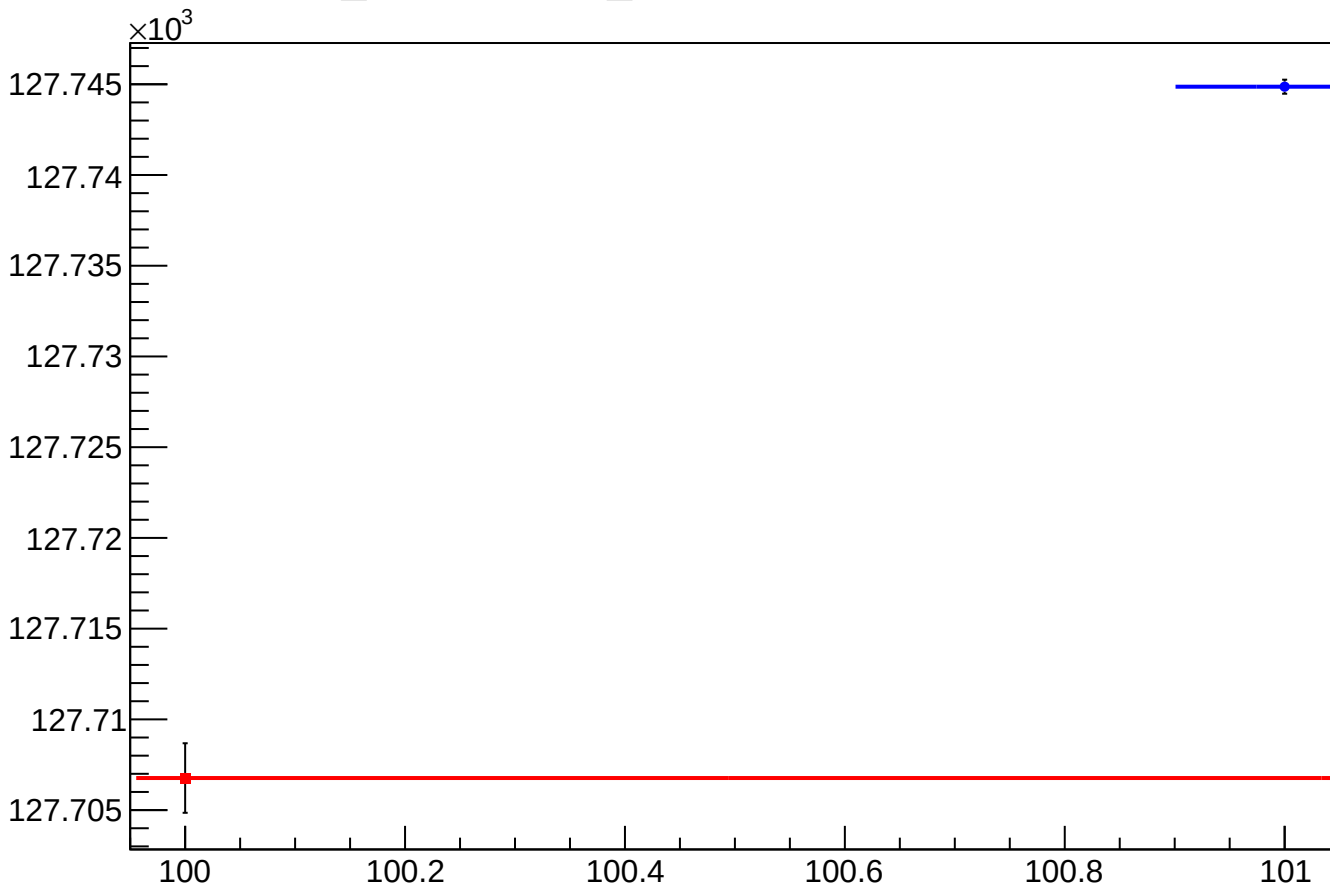
Right: 419.999 $\pm$ 0.349  $\chi^2$ /NDF: 6641.4/1

In: 412.668 $\pm$ 0.360  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 419.999 $\pm$ 0.349  $\chi^2$ /NDF: 6641.4/1

# yield\_bpm0l03WS\_mean vs Slug, Sign Corrected



Right In: 127744.866 $\pm$ 0.387  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127706.768 $\pm$ 1.916  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

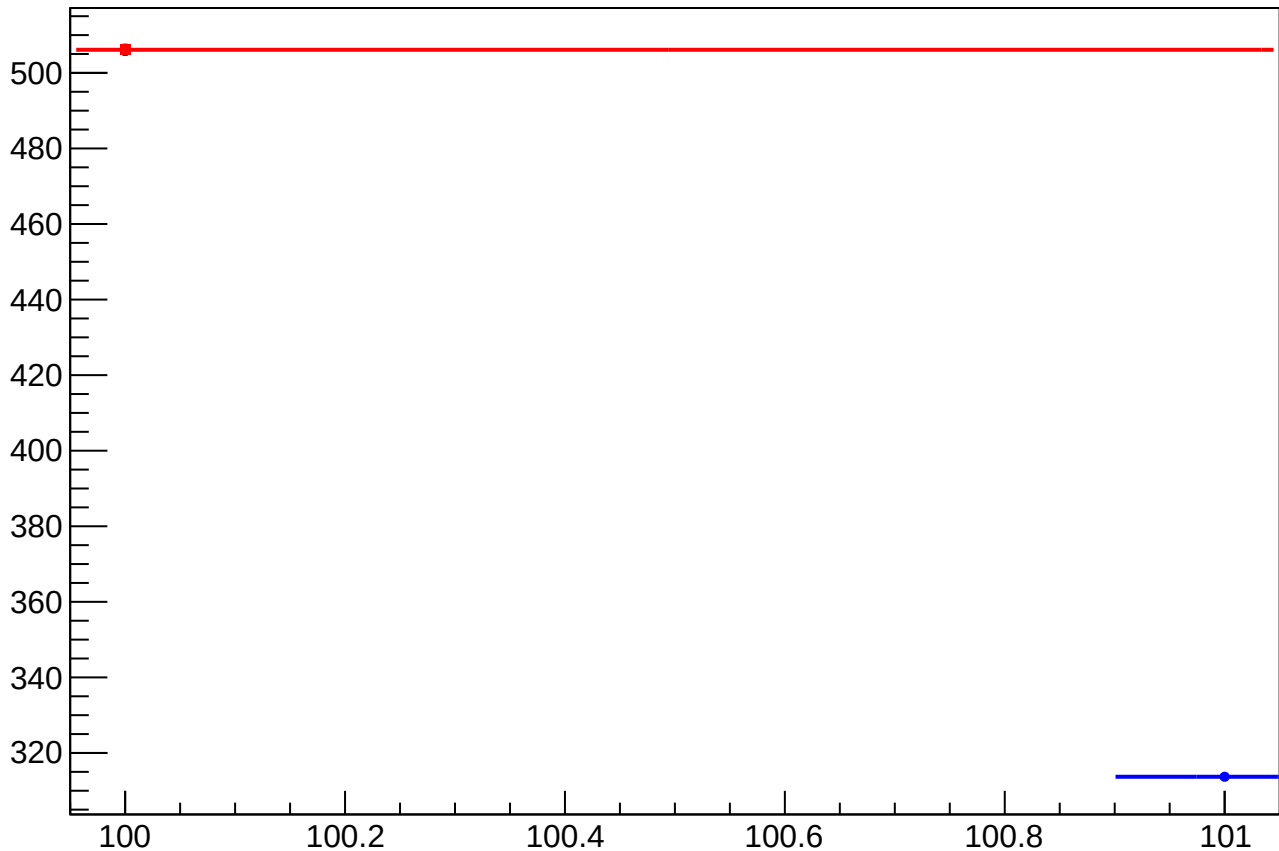
Right: 127743.371 $\pm$ 0.380  $\chi^2$ /NDF: 379.7/1

In: 127744.866 $\pm$ 0.387  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127743.371 $\pm$ 0.380  $\chi^2$ /NDF: 379.7/1

# yield\_bpm0l03WS\_rms vs Slug, Sign Corrected



Right In: 313.701 $\pm$ 0.274  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 506.111 $\pm$ 1.355  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

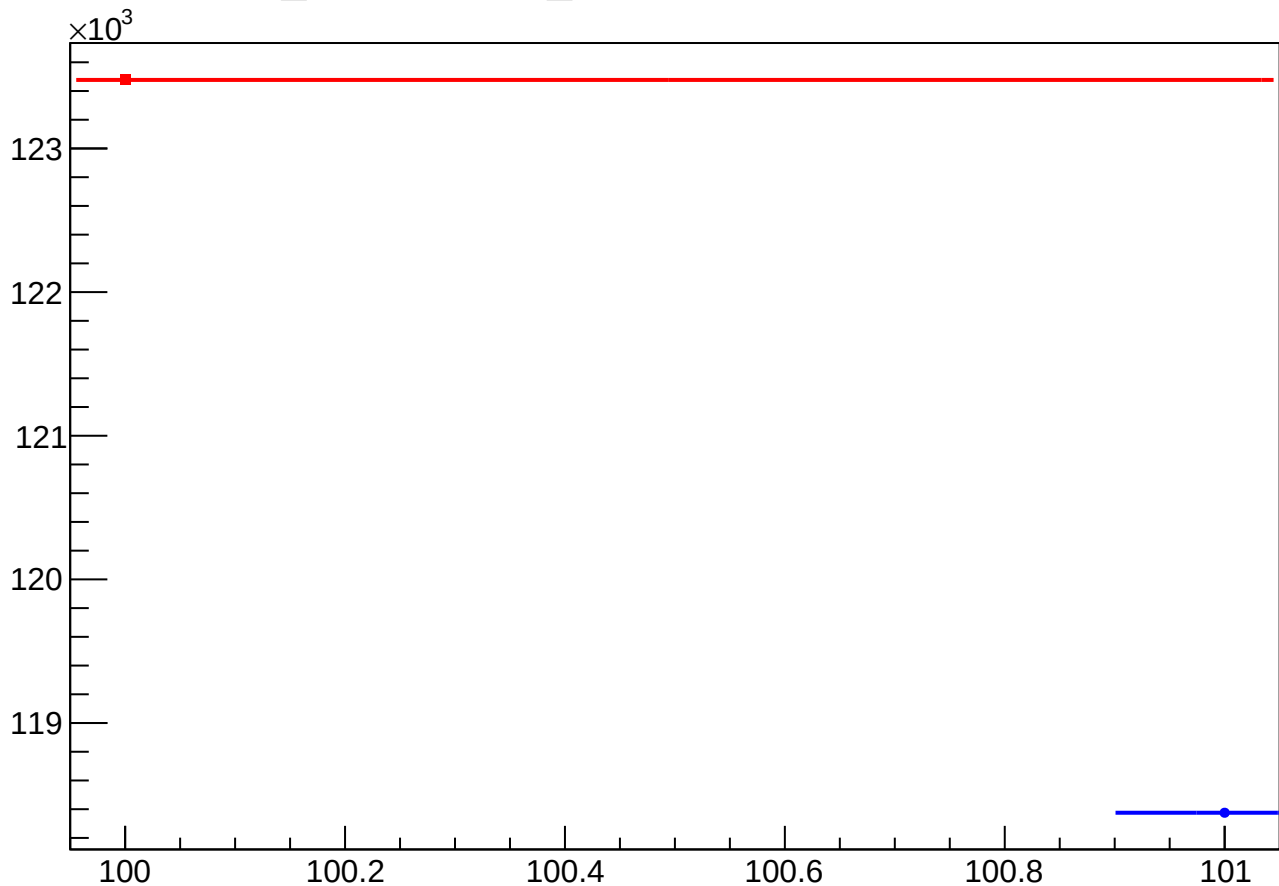
Right: 321.253 $\pm$ 0.268  $\chi^2$ /NDF: 19371.9/1

In: 313.701 $\pm$ 0.274  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 321.253 $\pm$ 0.268  $\chi^2$ /NDF: 19371.9/1

# yield\_bpm0l04WS\_mean vs Slug, Sign Corrected



Right In: 118375.369 $\pm$ 0.410  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123477.170 $\pm$ 1.802  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

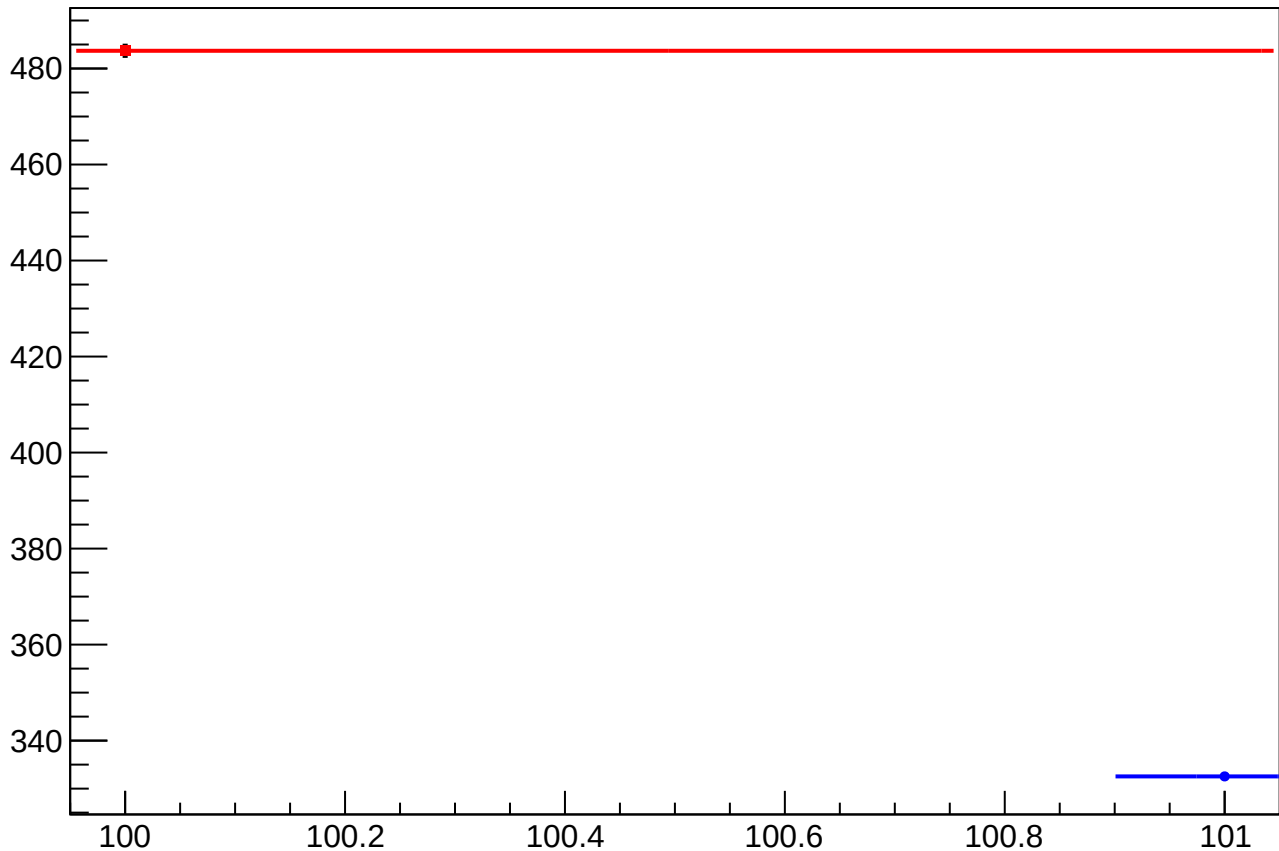
Right: 118627.074 $\pm$ 0.400  $\chi^2$ /NDF: 7623638.0/1

In: 118375.369 $\pm$ 0.410  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118627.074 $\pm$ 0.400  $\chi^2$ /NDF: 7623638.0

# yield\_bpm0l04WS\_rms vs Slug, Sign Corrected



Right In: 332.546 $\pm$ 0.290  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 483.693 $\pm$ 1.274  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

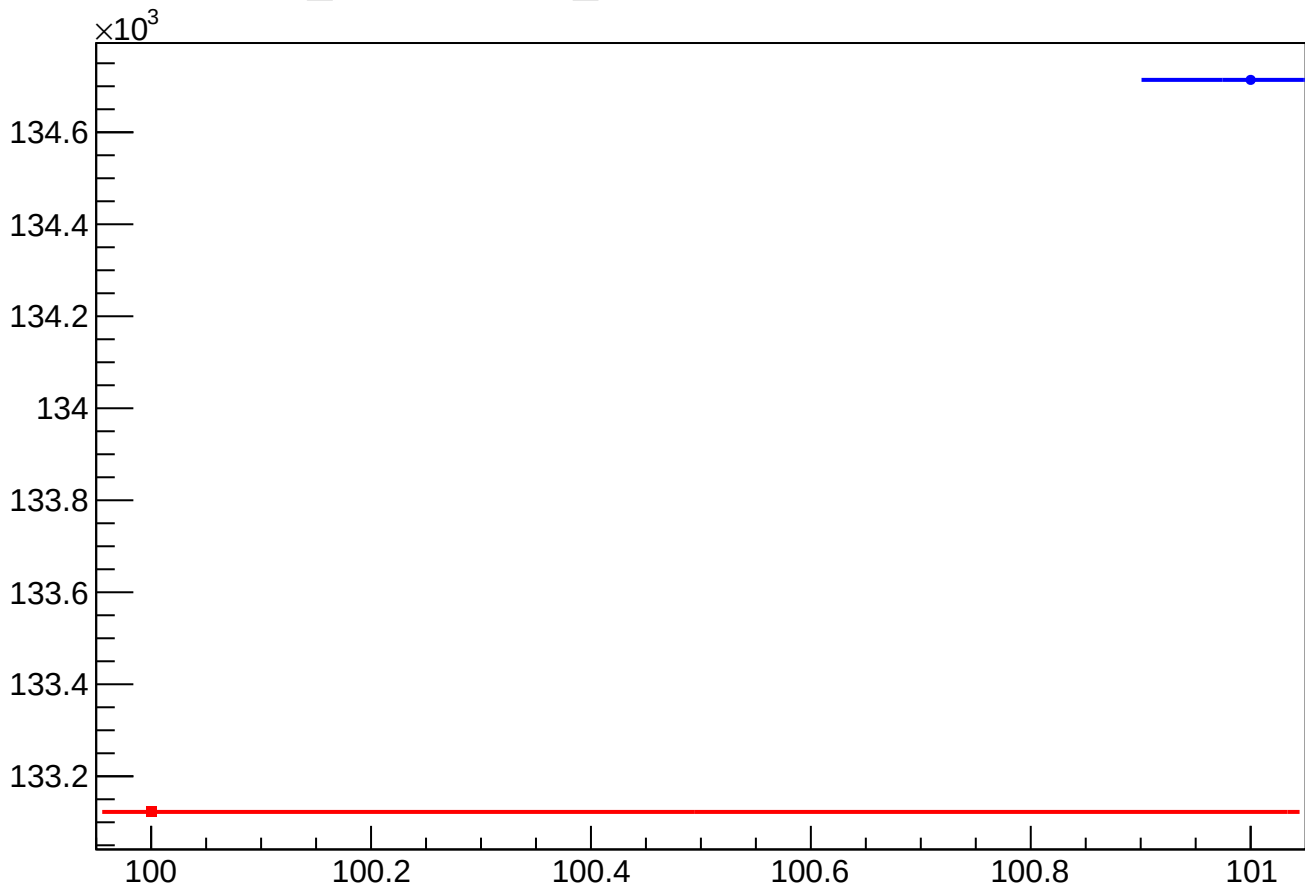
Right: 340.003 $\pm$ 0.283  $\chi^2$ /NDF: 13382.7/1

In: 332.546 $\pm$ 0.290  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 340.003 $\pm$ 0.283  $\chi^2$ /NDF: 13382.7/1

# yield\_bpm0l05WS\_mean vs Slug, Sign Corrected



Right In: 134713.885 $\pm$ 0.449  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 133122.516 $\pm$ 1.911  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

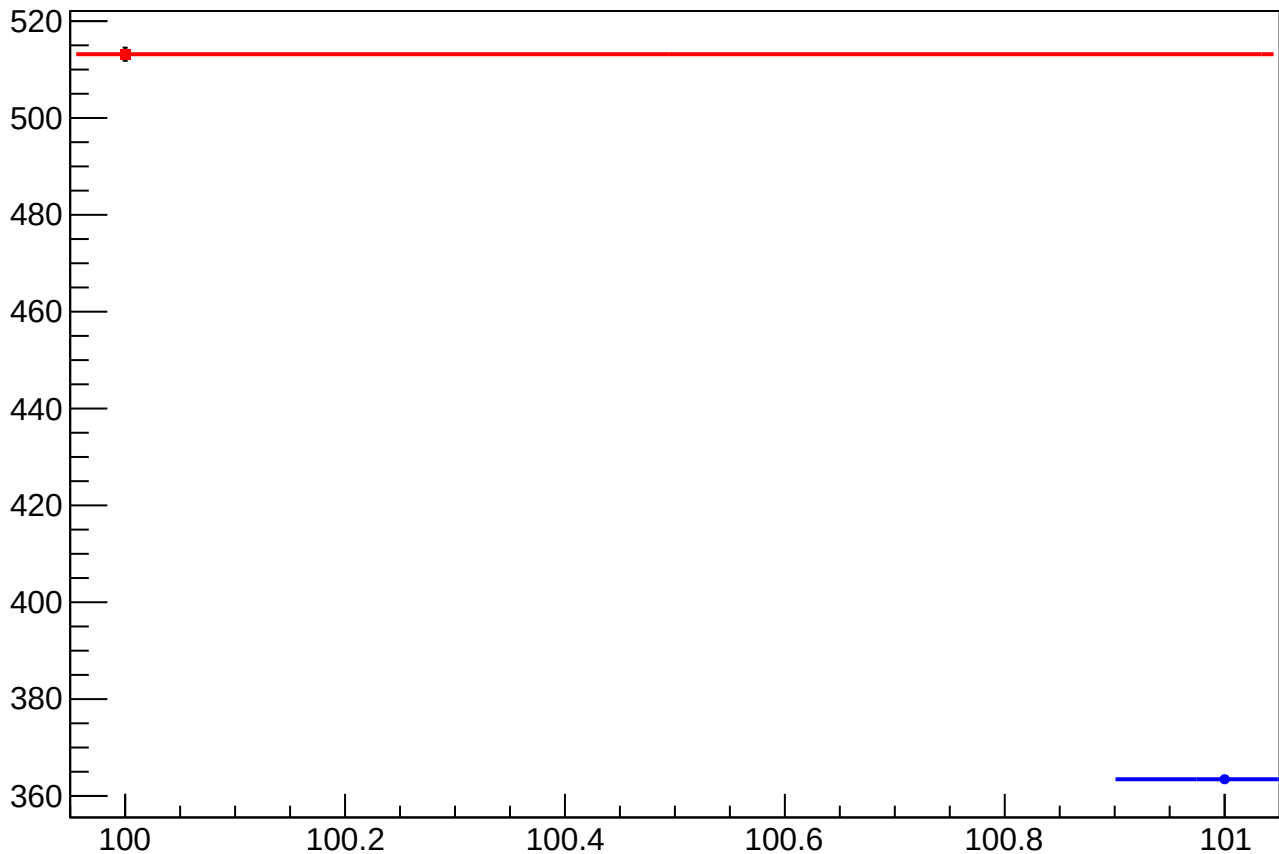
Right: 134630.765 $\pm$ 0.437  $\chi^2$ /NDF: 657336.5/1

In: 134713.885 $\pm$ 0.449  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 134630.765 $\pm$ 0.437  $\chi^2$ /NDF: 657336.5/1

# yield\_bpm0l05WS\_rms vs Slug, Sign Corrected



Right In: 363.447 $\pm$ 0.317  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 513.167 $\pm$ 1.351  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 371.267 $\pm$ 0.309  $\chi^2$ /NDF: 11636.8/1

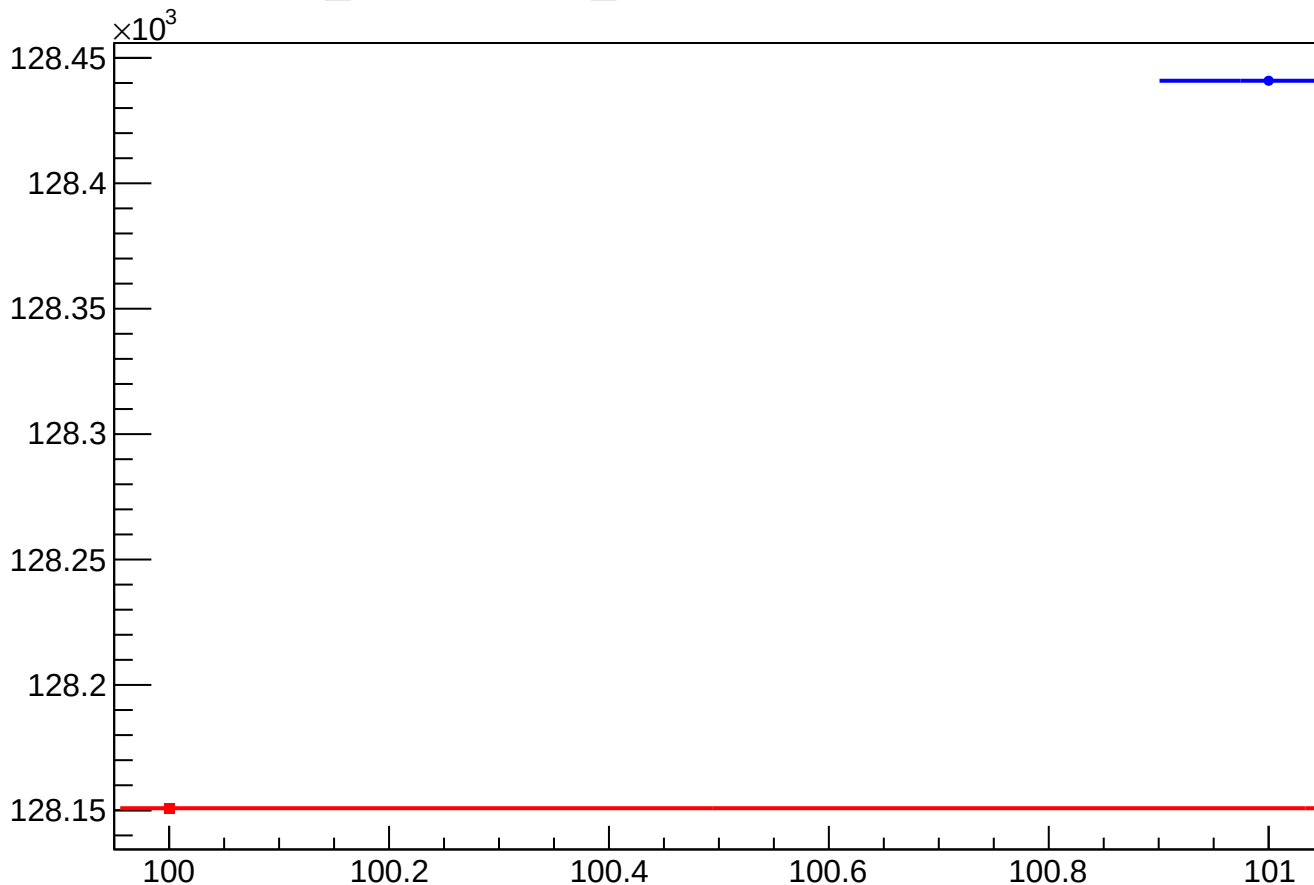
In: 363.447 $\pm$ 0.317  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 371.267 $\pm$ 0.309  $\chi^2$ /NDF: 11636.8/1



# yield\_bpm0l06WS\_mean vs Slug, Sign Corrected



Right In: 128440.889 $\pm$ 0.430  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 128150.843 $\pm$ 1.821  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

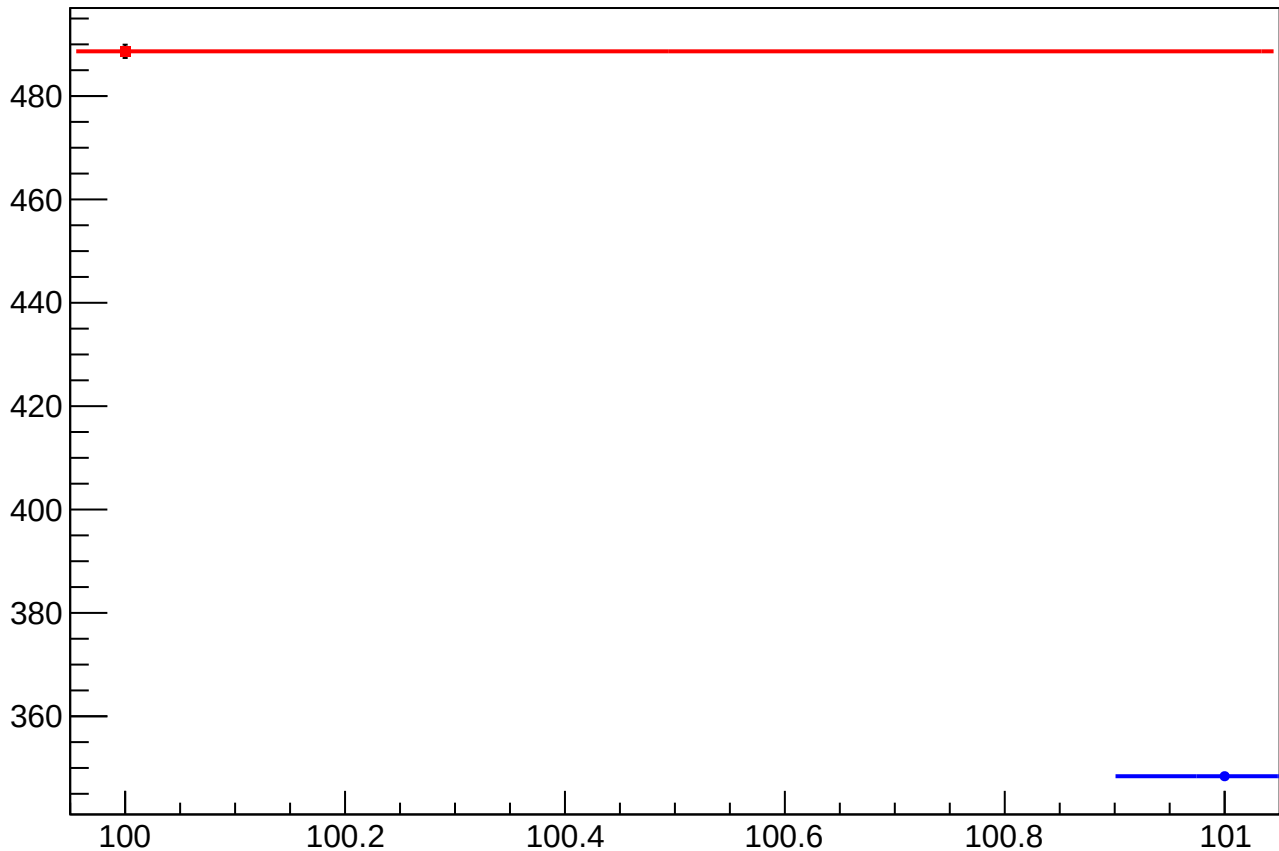
Right: 128425.560 $\pm$ 0.419  $\chi^2$ /NDF: 24041.8/1

In: 128440.889 $\pm$ 0.430  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 128425.560 $\pm$ 0.419  $\chi^2$ /NDF: 24041.8/1

# yield\_bpm0l06WS\_rms vs Slug, Sign Corrected



Right In: 348.401+/-0.304  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 488.653+/-1.287  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

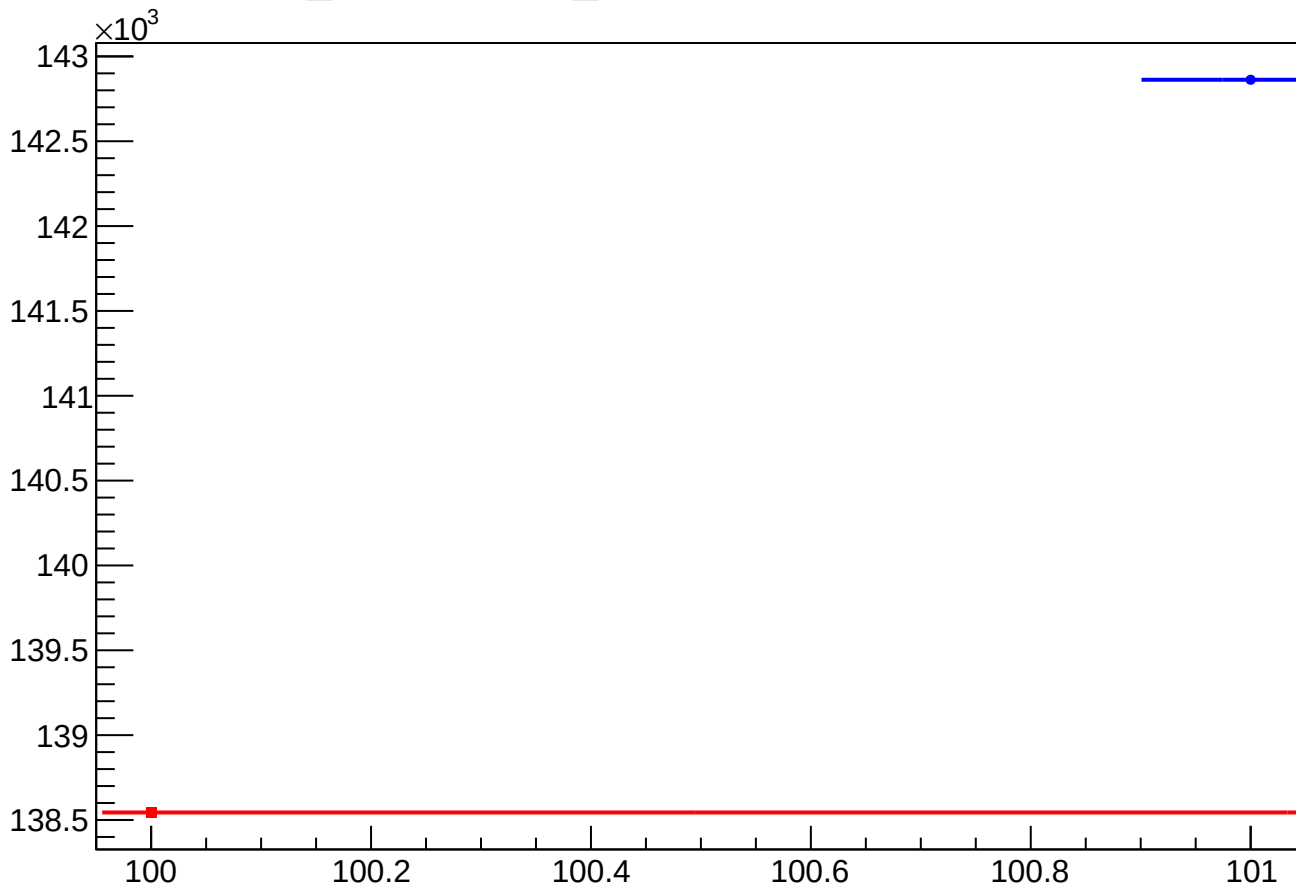
Right: 355.813+/-0.296  $\chi^2/\text{NDF}$ : 11243.0/1

In: 348.401+/-0.304  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 355.813+/-0.296  $\chi^2/\text{NDF}$ : 11243.0/1

# yield\_bpm0l07WS\_mean vs Slug, Sign Corrected



Right In: 142862.320+/-0.493  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 138544.361+/-2.021  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

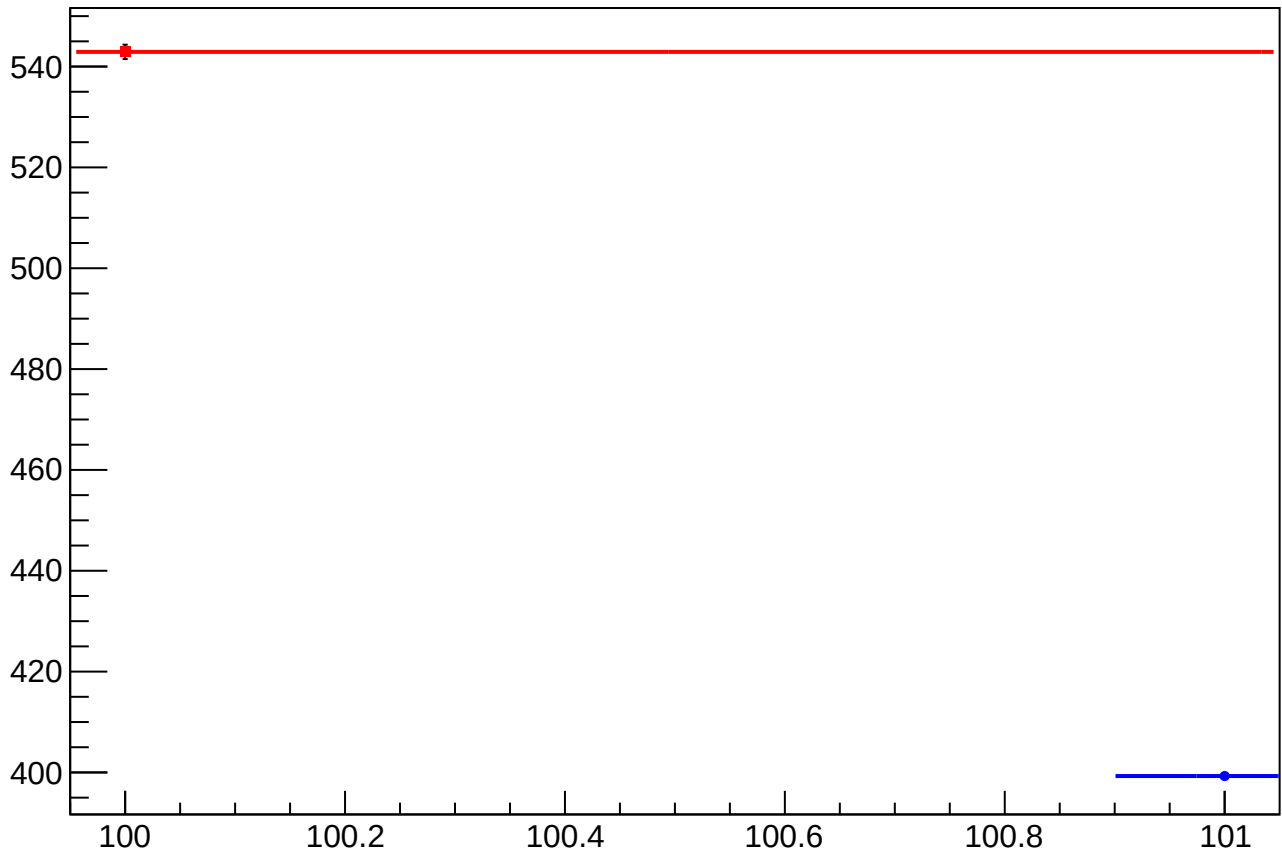
Right: 142619.923+/-0.479  $\chi^2/\text{NDF}$ : 4307770.7/1

In: 142862.320+/-0.493  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 142619.923+/-0.479  $\chi^2/\text{NDF}$ : 4307770.7

# yield\_bpm0l07WS\_rms vs Slug, Sign Corrected



Right In: 399.287 $\pm$ 0.349  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 542.911 $\pm$ 1.429  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

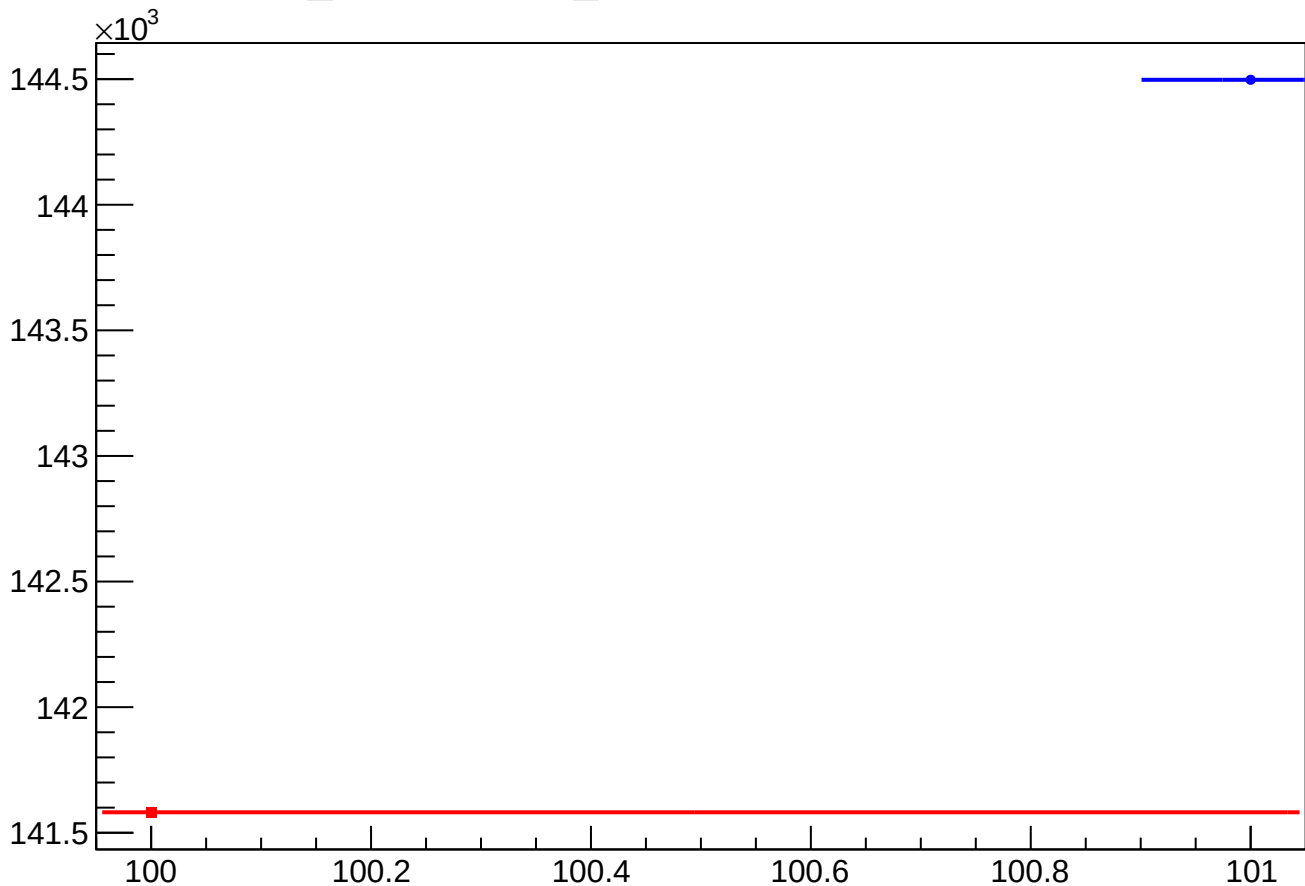
Right: 407.350 $\pm$ 0.339  $\chi^2$ /NDF: 9531.9/1

In: 399.287 $\pm$ 0.349  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 407.350 $\pm$ 0.339  $\chi^2$ /NDF: 9531.9/1

# yield\_bpm0l08WS\_mean vs Slug, Sign Corrected



Right In: 144497.394+/-0.486  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 141581.522+/-2.039  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

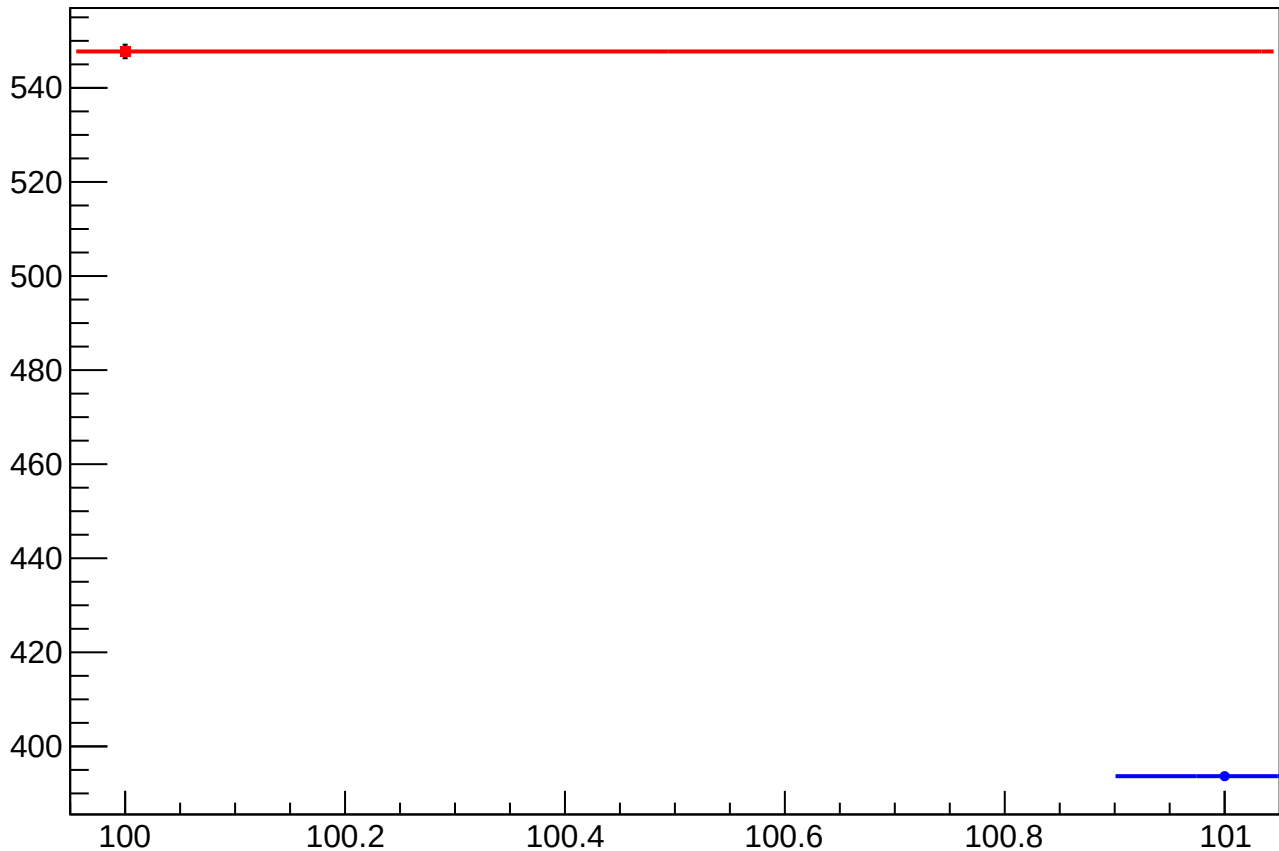
Right: 144340.767+/-0.473  $\chi^2/\text{NDF}$ : 1934590.0/1

In: 144497.394+/-0.486  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 144340.767+/-0.473  $\chi^2/\text{NDF}$ : 1934590.0

# yield\_bpm0l08WS\_rms vs Slug, Sign Corrected



Right In: 393.668 $\pm$ 0.344  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 547.746 $\pm$ 1.442  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

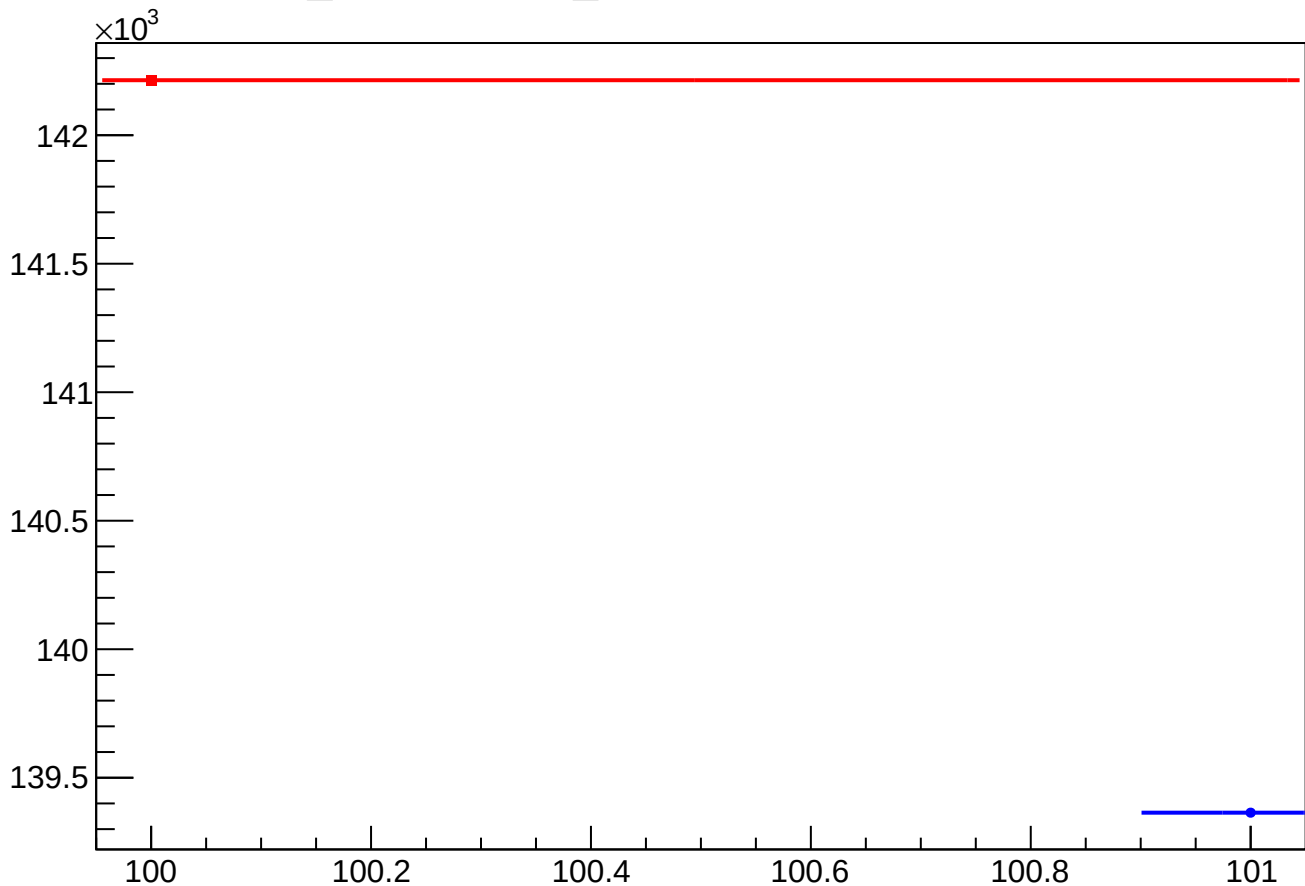
Right: 401.944 $\pm$ 0.334  $\chi^2$ /NDF: 10803.4/1

In: 393.668 $\pm$ 0.344  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 401.944 $\pm$ 0.334  $\chi^2$ /NDF: 10803.4/1

# yield\_bpm0l09WS\_mean vs Slug, Sign Corrected



Right In: 139364.062 $\pm$ 0.485  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 142213.984 $\pm$ 2.097  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

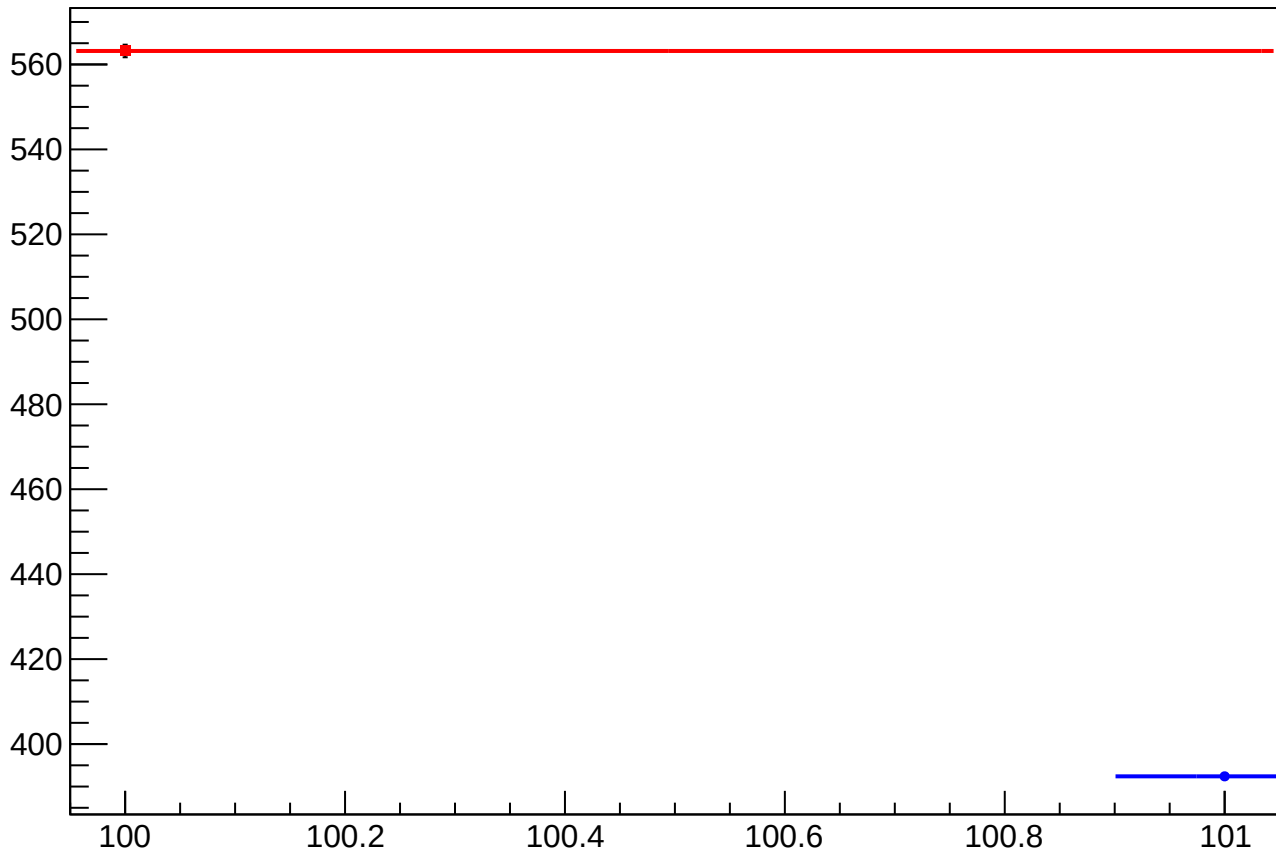
Right: 139508.514 $\pm$ 0.472  $\chi^2$ /NDF: 1753193.5/1

In: 139364.062 $\pm$ 0.485  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 139508.514 $\pm$ 0.472  $\chi^2$ /NDF: 1753193.5

# yield\_bpm0l09WS\_rms vs Slug, Sign Corrected



Right In: 392.404 $\pm$ 0.343  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 563.173 $\pm$ 1.483  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 401.059 $\pm$ 0.334  $\chi^2$ /NDF: 12589.6/1

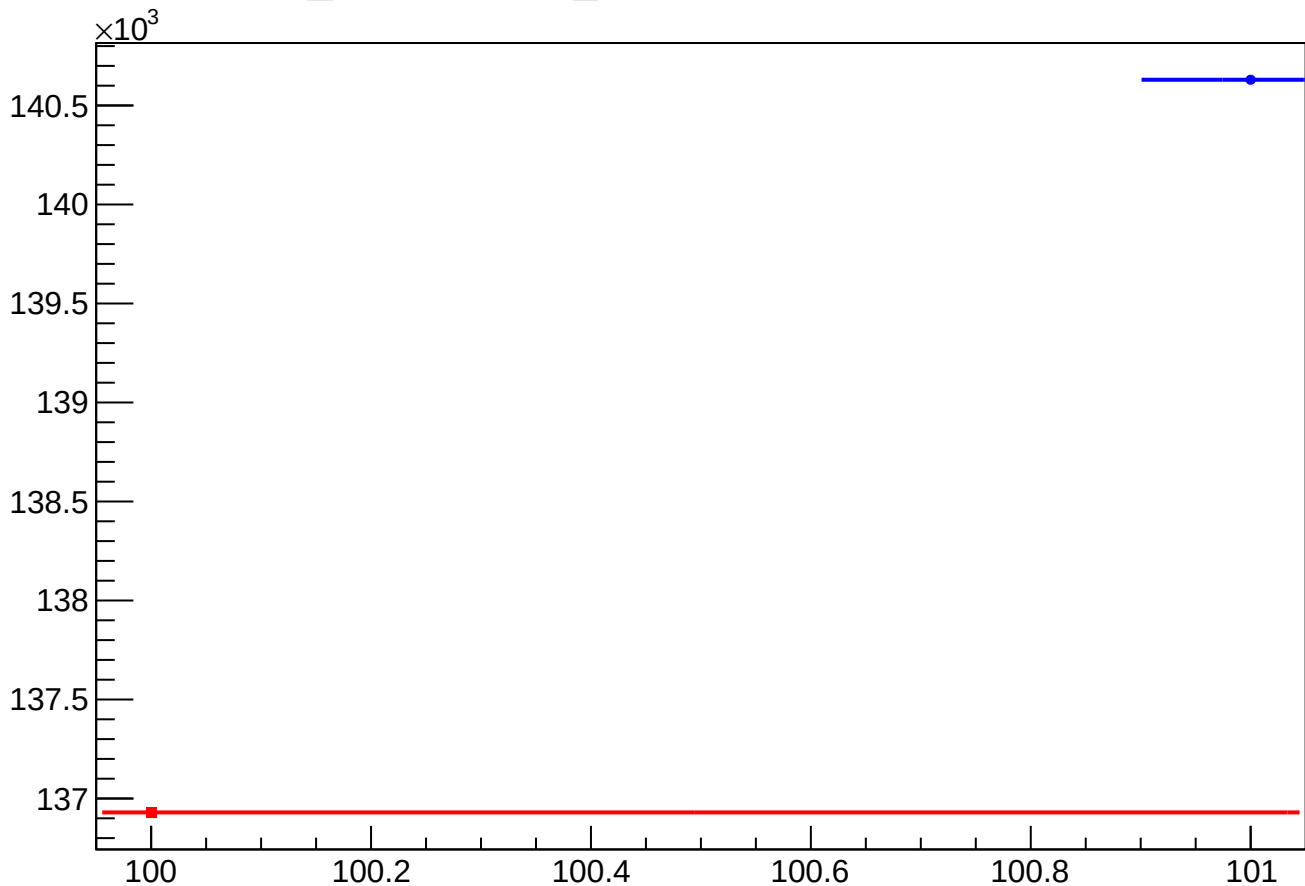
In: 392.404 $\pm$ 0.343  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 401.059 $\pm$ 0.334  $\chi^2$ /NDF: 12589.6/1



# yield\_bpm0l10WS\_mean vs Slug, Sign Corrected



Right In: 140629.879+/-0.486  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 136929.823+/-1.984  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

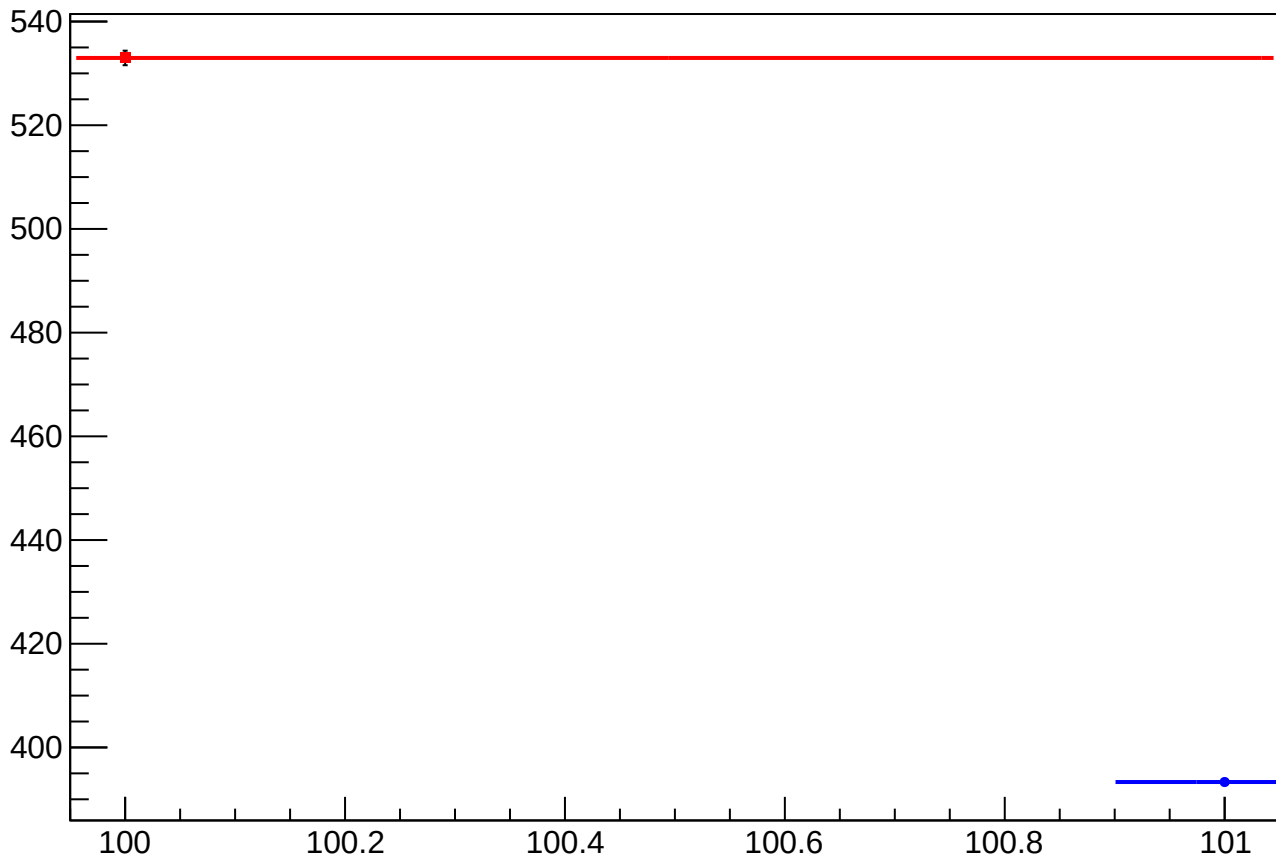
Right: 140420.735+/-0.472  $\chi^2/\text{NDF}$ : 3280871.1/1

In: 140629.879+/-0.486  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 140420.735+/-0.472  $\chi^2/\text{NDF}$ : 3280871.1

# yield\_bpm0l10WS\_rms vs Slug, Sign Corrected



Right In: 393.332 $\pm$ 0.343  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 532.977 $\pm$ 1.403  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

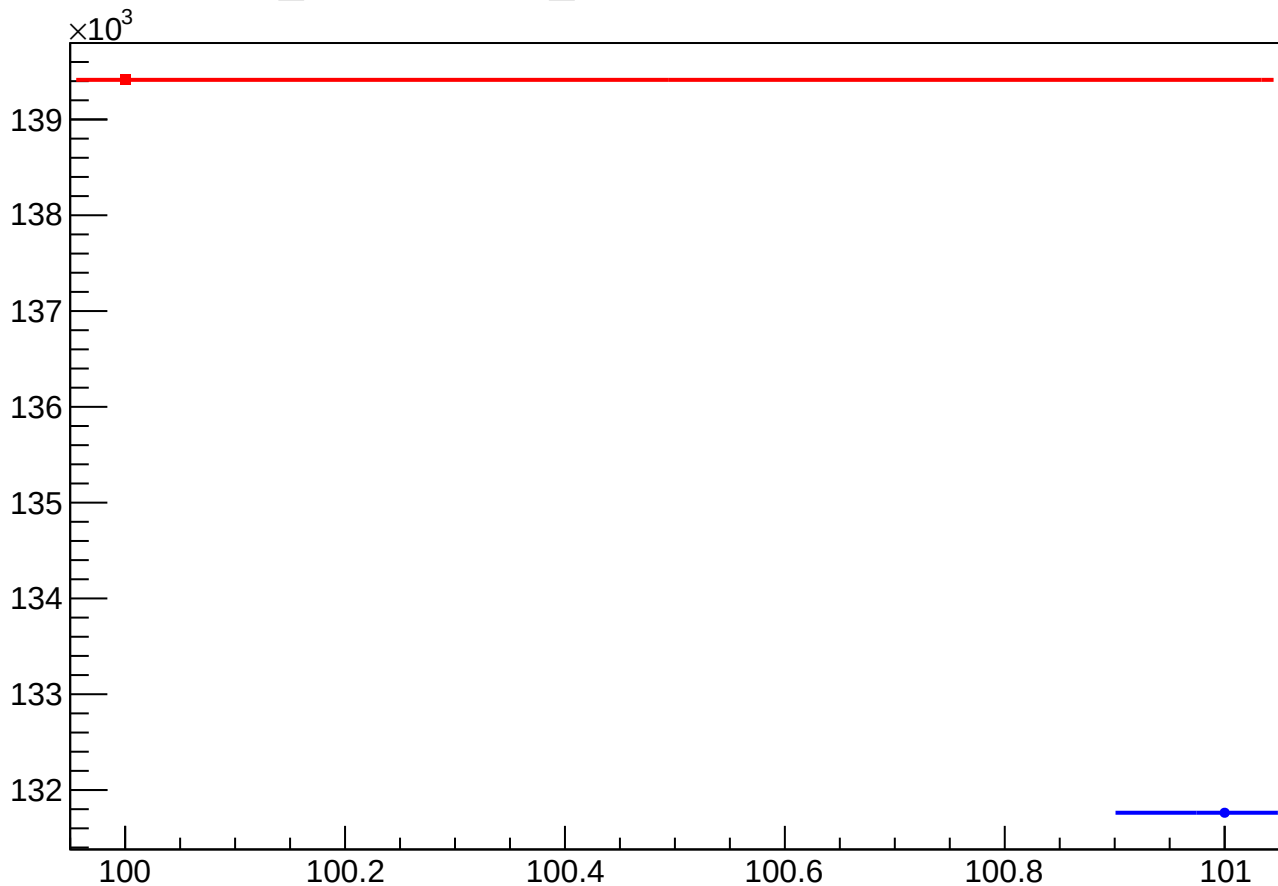
Right: 401.226 $\pm$ 0.334  $\chi^2$ /NDF: 9346.5/1

In: 393.332 $\pm$ 0.343  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 401.226 $\pm$ 0.334  $\chi^2$ /NDF: 9346.5/1

# yield\_bpm0r03WS\_mean vs Slug, Sign Corrected



Right In: 131762.865+/-0.580  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 139413.447+/-1.942  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

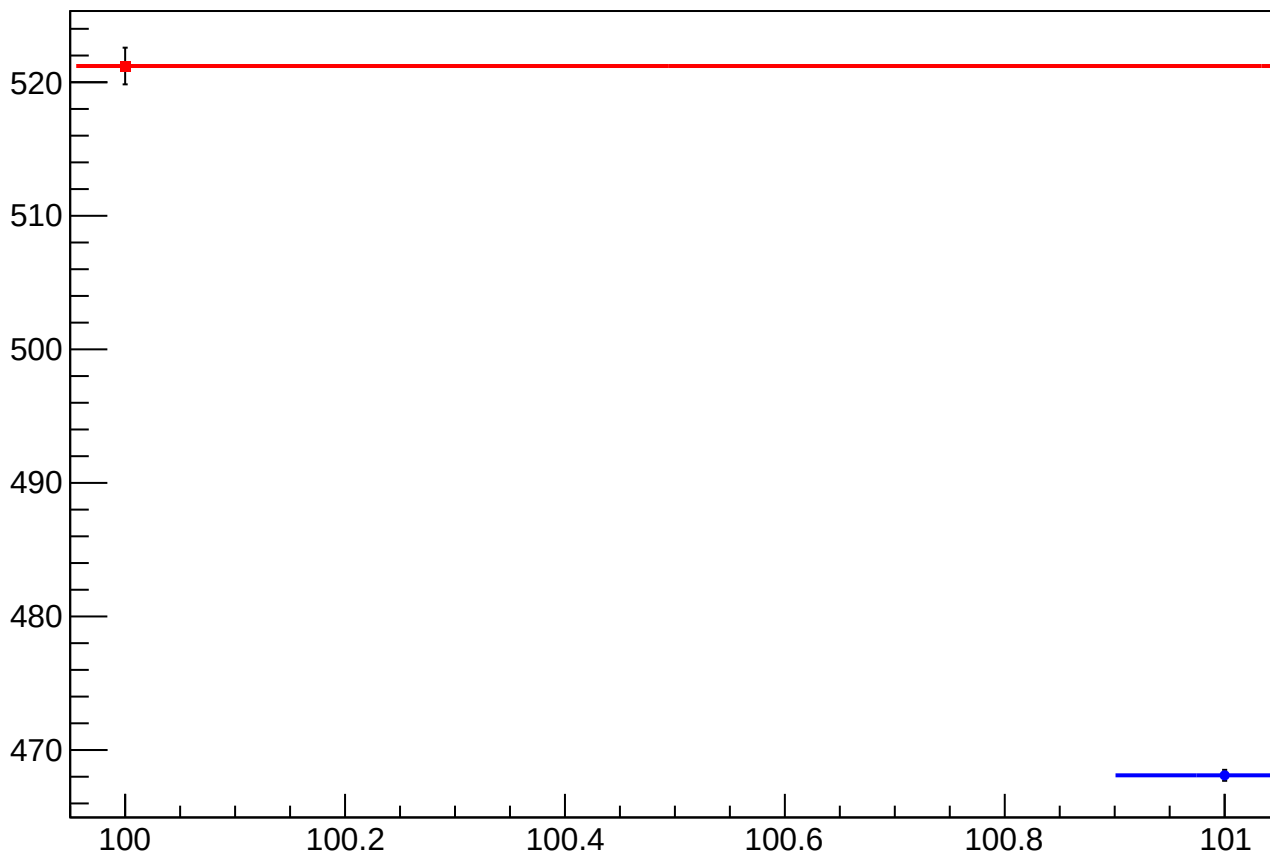
Right: 132388.527+/-0.555  $\chi^2/\text{NDF}$ : 14252162.9/1

In: 131762.865+/-0.580  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 132388.527+/-0.555  $\chi^2/\text{NDF}$ : 14252162.9/1

# yield\_bpm0r03WS\_rms vs Slug, Sign Corrected



Right In: 468.105 $\pm$ 0.410  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 521.215 $\pm$ 1.373  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

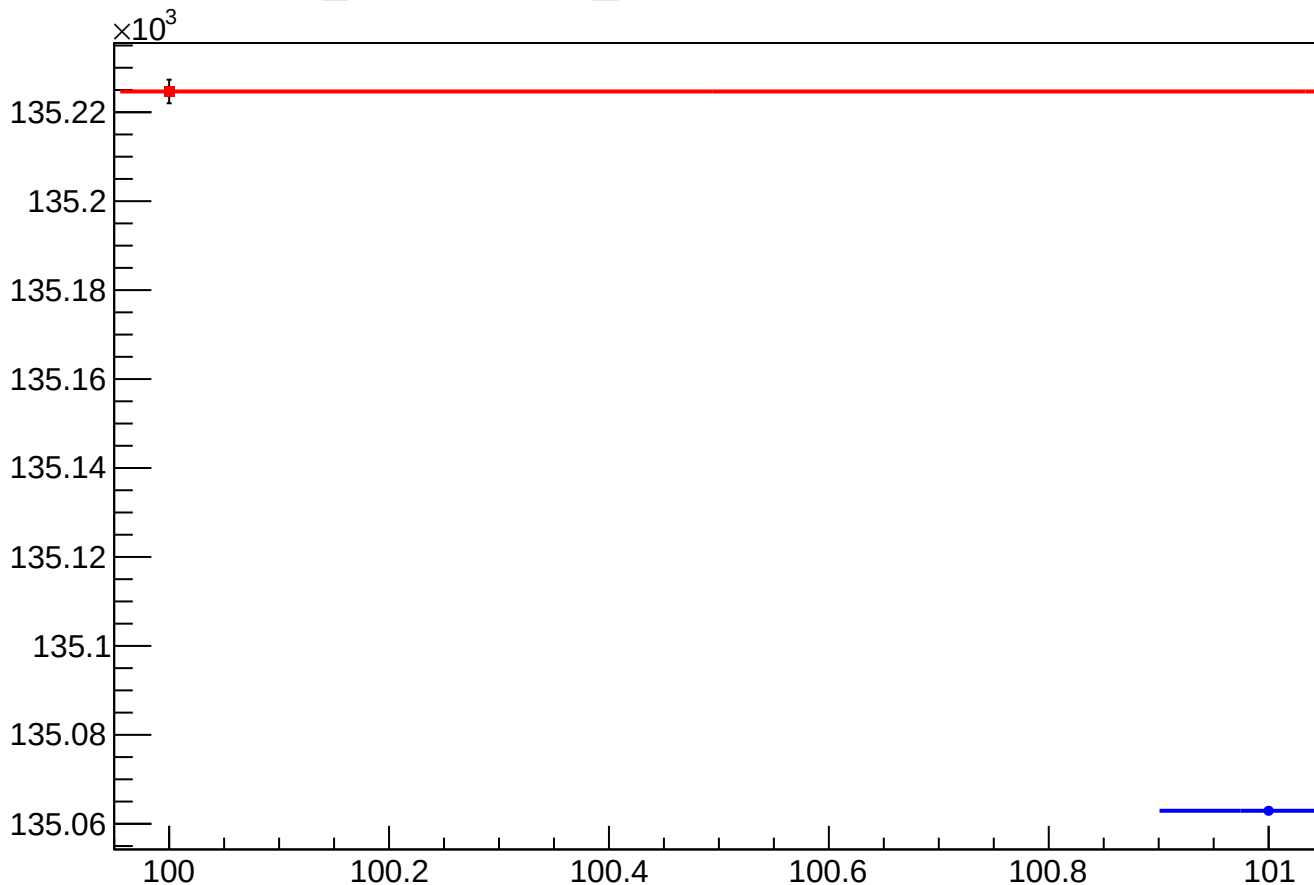
Right: 472.448 $\pm$ 0.393  $\chi^2/\text{NDF}$ : 1373.7/1

In: 468.105 $\pm$ 0.410  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 472.448 $\pm$ 0.393  $\chi^2/\text{NDF}$ : 1373.7/1

# yield\_bpm0r05WS\_mean vs Slug, Sign Corrected



Right In: 135062.931 $\pm$ 0.457  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 135224.668 $\pm$ 2.652  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

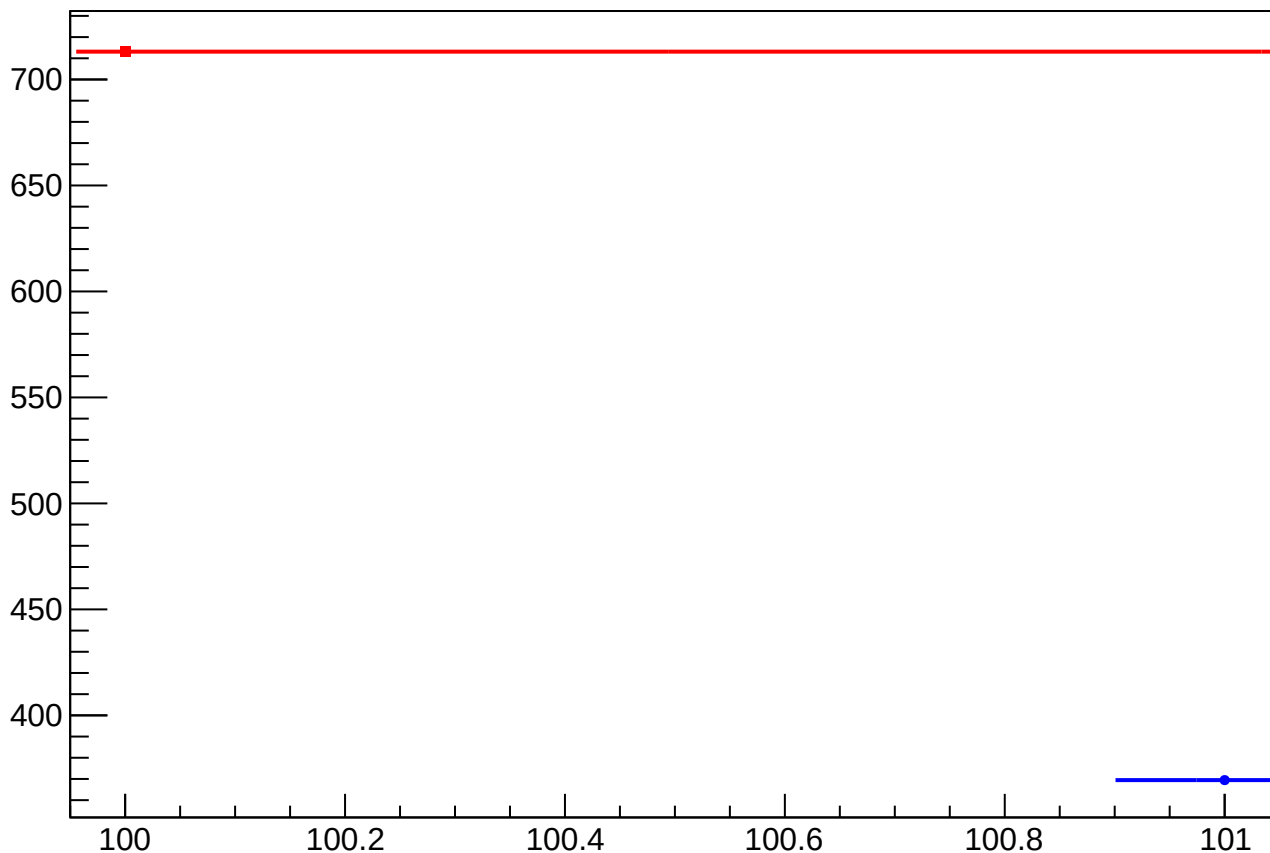
Right: 135067.588 $\pm$ 0.450  $\chi^2/\text{NDF}$ : 3613.2/1

In: 135062.931 $\pm$ 0.457  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135067.588 $\pm$ 0.450  $\chi^2/\text{NDF}$ : 3613.2/1

# yield\_bpm0r05WS\_rms vs Slug, Sign Corrected



Right In: 369.453+/-0.323  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 713.133+/-1.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

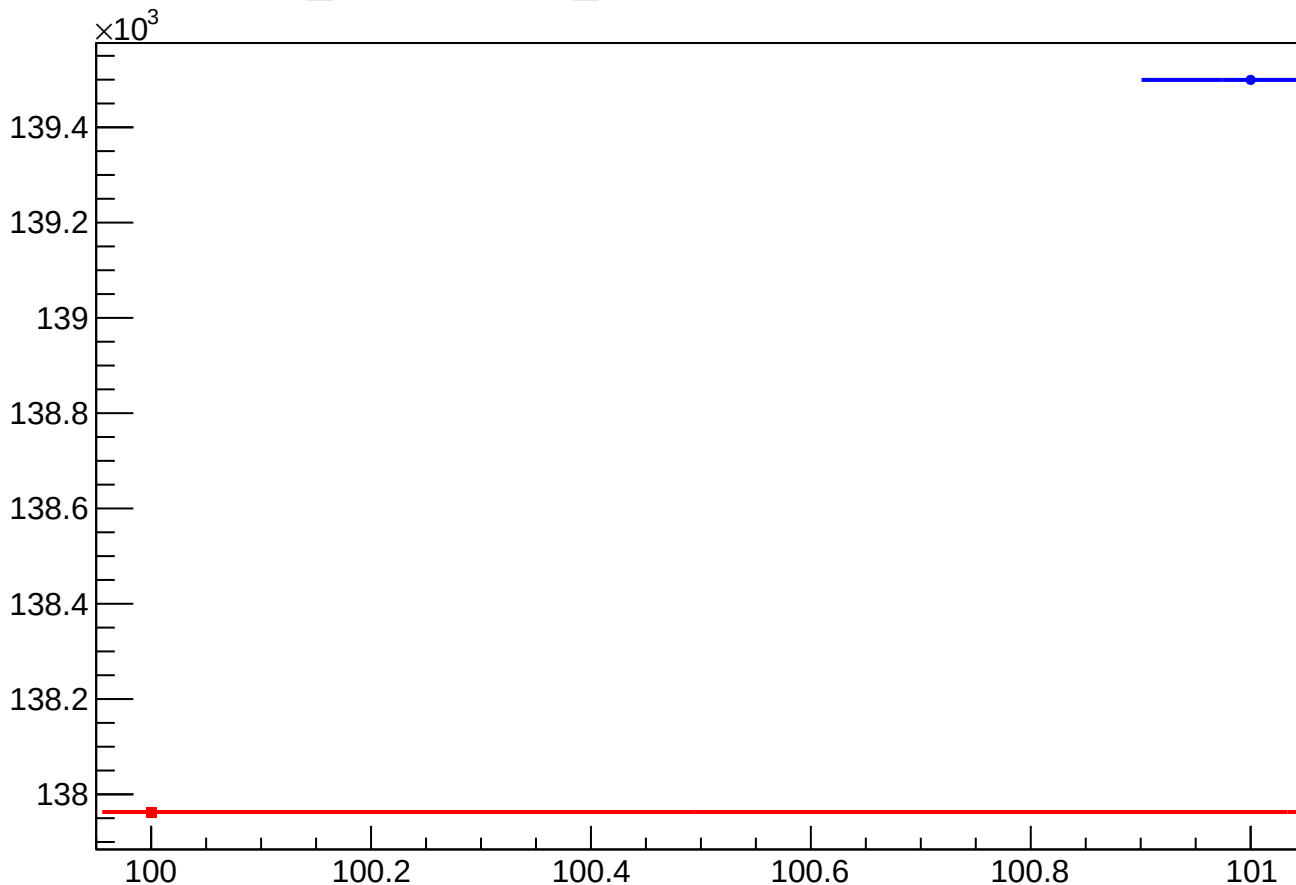
Right: 379.348+/-0.318  $\chi^2/\text{NDF}$ : 32630.1/1

In: 369.453+/-0.323  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 379.348+/-0.318  $\chi^2/\text{NDF}$ : 32630.1/1

# yield\_bpm0i02WS\_mean vs Slug, Sign Corrected



Right In: 139499.522 $\pm$ 0.456  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 137962.938 $\pm$ 1.651  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

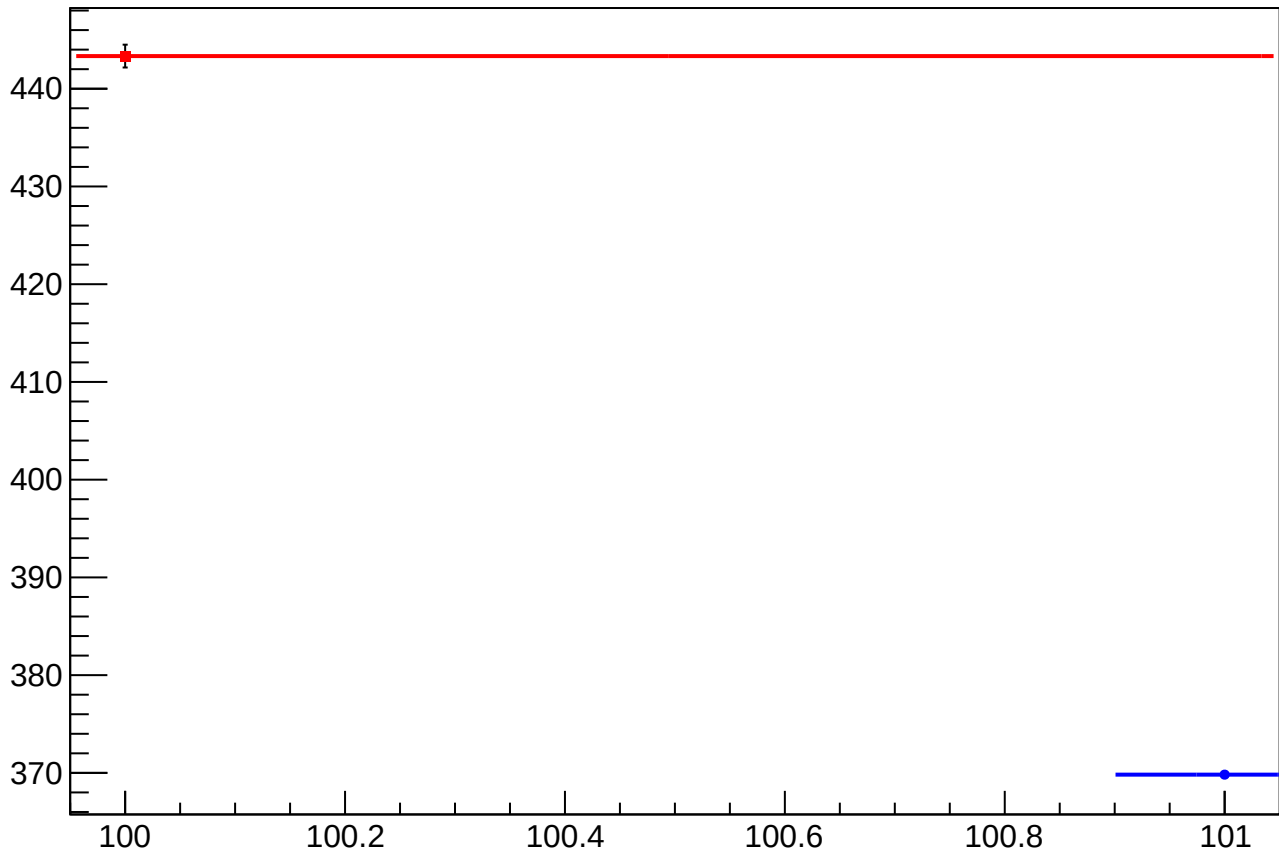
Right: 139390.468 $\pm$ 0.440  $\chi^2/\text{NDF}$ : 804279.2/1

In: 139499.522 $\pm$ 0.456  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 139390.468 $\pm$ 0.440  $\chi^2/\text{NDF}$ : 804279.2/1

# yield\_bpm0i02WS\_rms vs Slug, Sign Corrected



Right In: 369.820 $\pm$ 0.323  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 443.340 $\pm$ 1.168  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 375.038 $\pm$ 0.311  $\chi^2$ /NDF: 3682.5/1

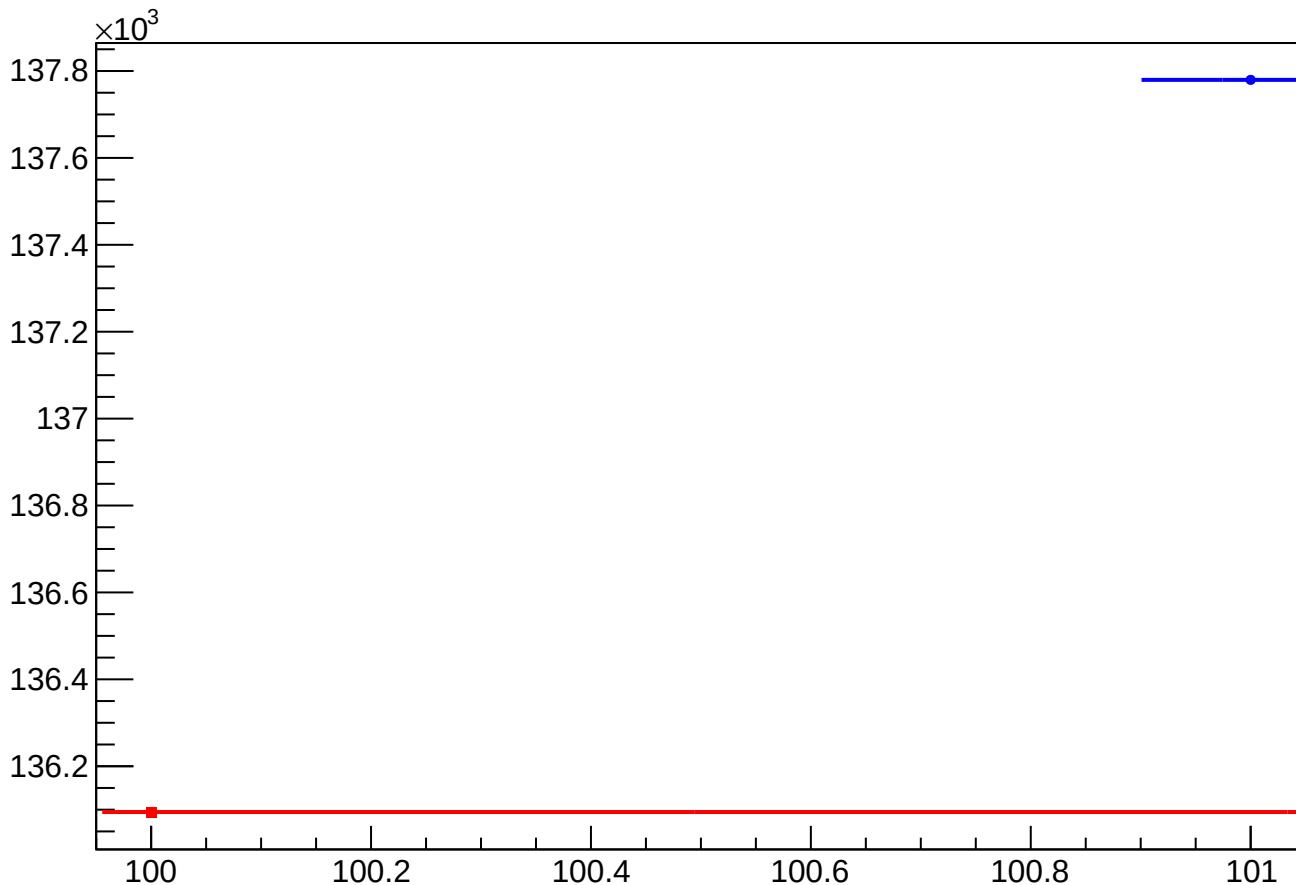
In: 369.820 $\pm$ 0.323  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 375.038 $\pm$ 0.311  $\chi^2$ /NDF: 3682.5/1



# yield\_bpm0i02aWS\_mean vs Slug, Sign Corrected



Right In: 137779.607 $\pm$ 0.447  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 136094.614 $\pm$ 1.778  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

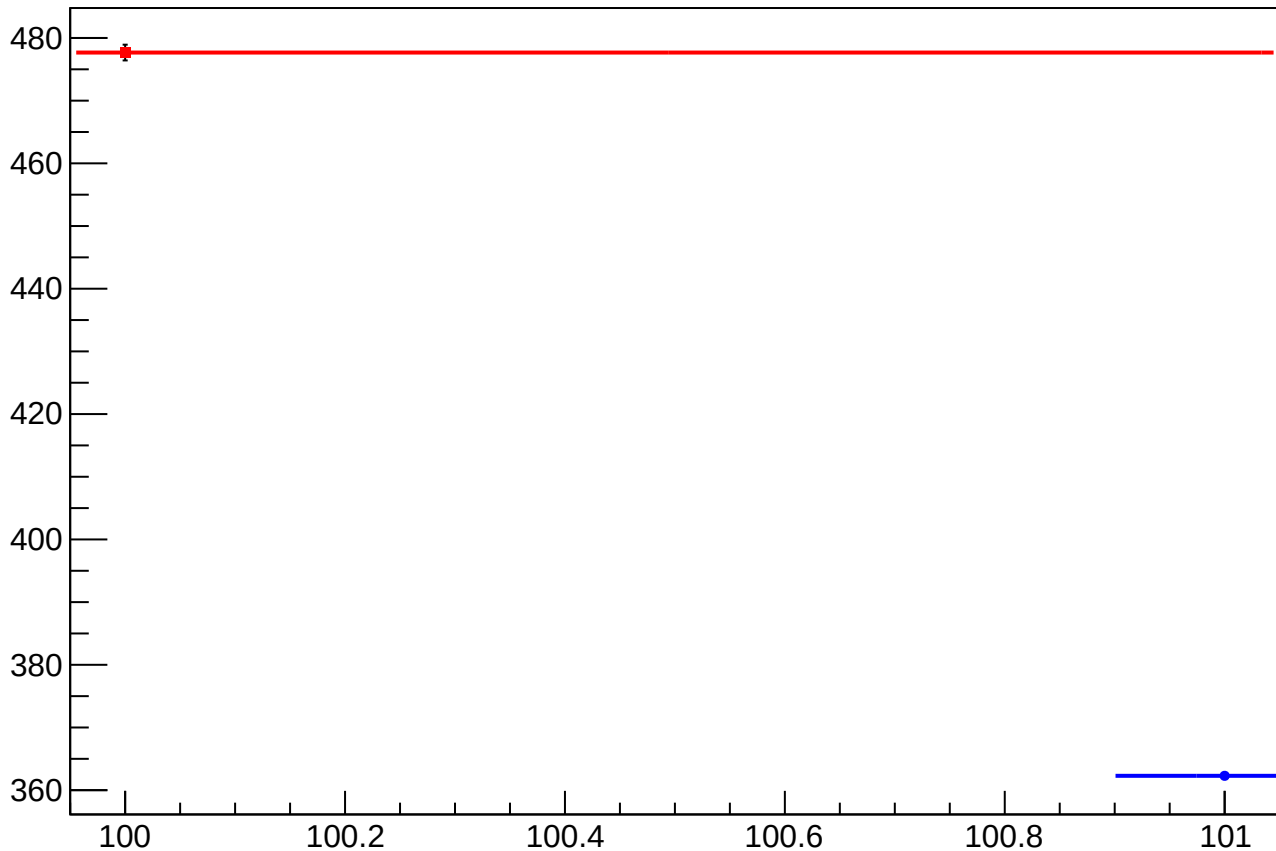
Right: 137679.384 $\pm$ 0.434  $\chi^2$ /NDF: 844473.1/1

In: 137779.607 $\pm$ 0.447  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 137679.384 $\pm$ 0.434  $\chi^2$ /NDF: 844473.1/1

# yield\_bpm0i02aWS\_rms vs Slug, Sign Corrected



Right In: 362.290+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 477.675+/-1.257  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

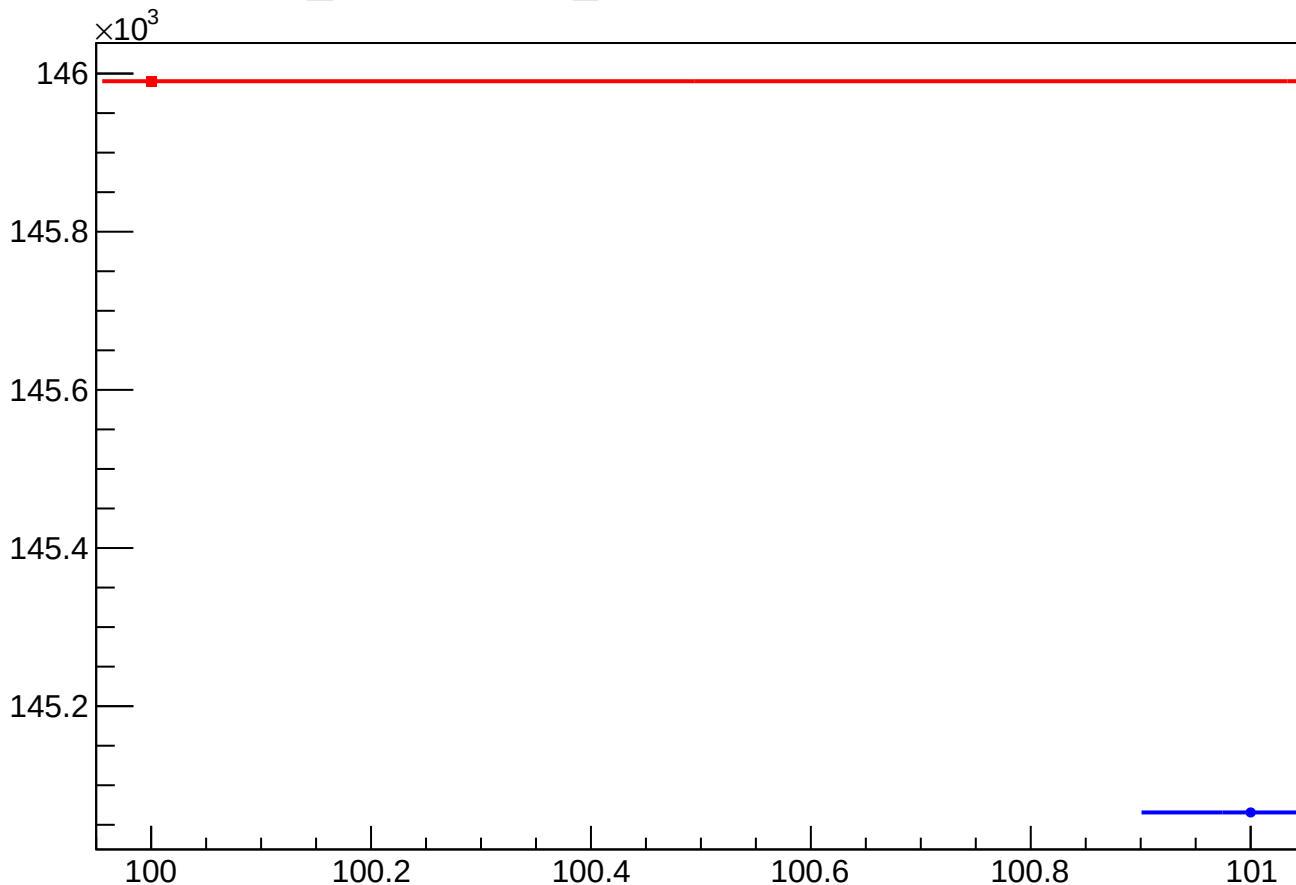
Right: 369.153+/-0.307  $\chi^2/\text{NDF}$ : 7919.8/1

In: 362.290+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 369.153+/-0.307  $\chi^2/\text{NDF}$ : 7919.8/1

# yield\_bpm0i05WS\_mean vs Slug, Sign Corrected



Right In: 145065.613 $\pm$ 0.447  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 145990.322 $\pm$ 1.952  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

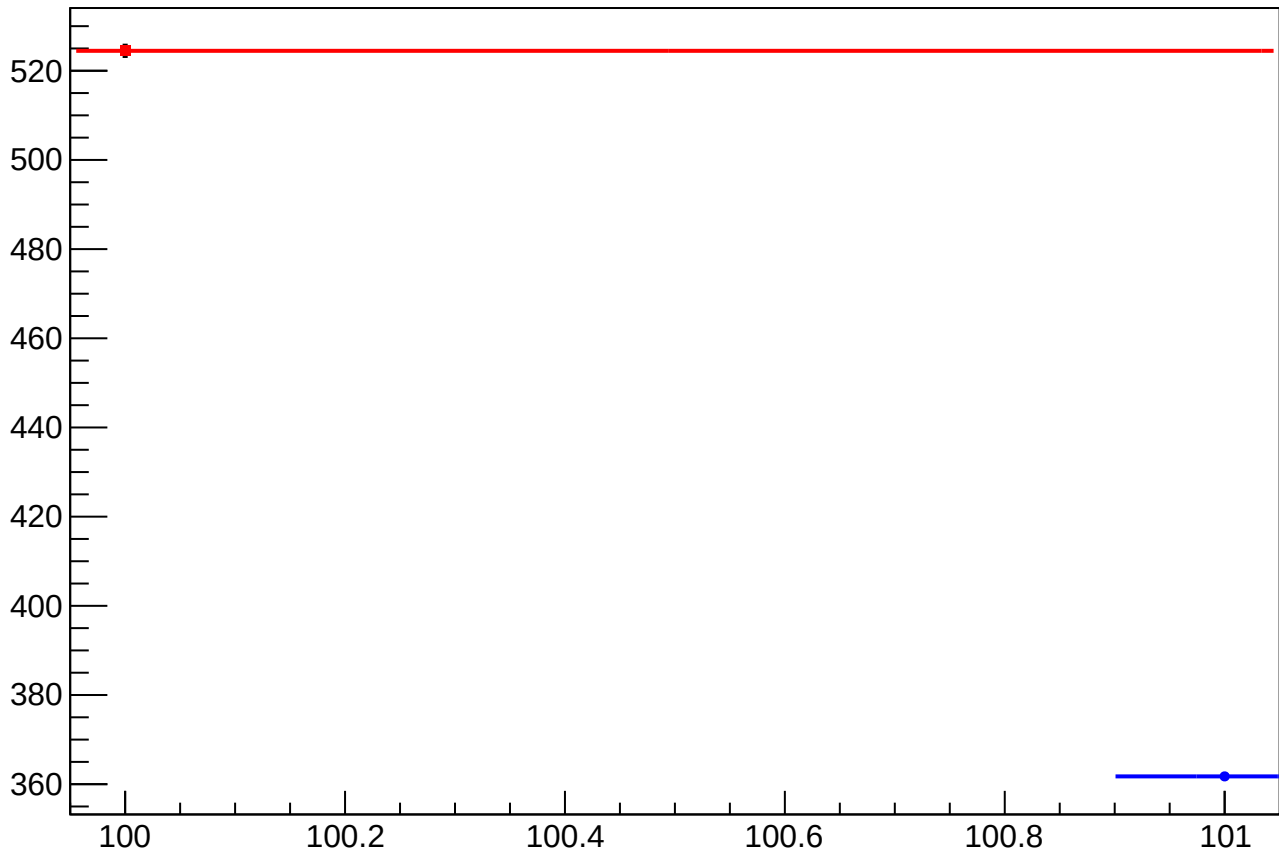
Right: 145111.593 $\pm$ 0.435  $\chi^2$ /NDF: 213255.5/1

In: 145065.613 $\pm$ 0.447  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 145111.593 $\pm$ 0.435  $\chi^2$ /NDF: 213255.5/1

# yield\_bpm0i05WS\_rms vs Slug, Sign Corrected



Right In: 361.749+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 524.470+/-1.380  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

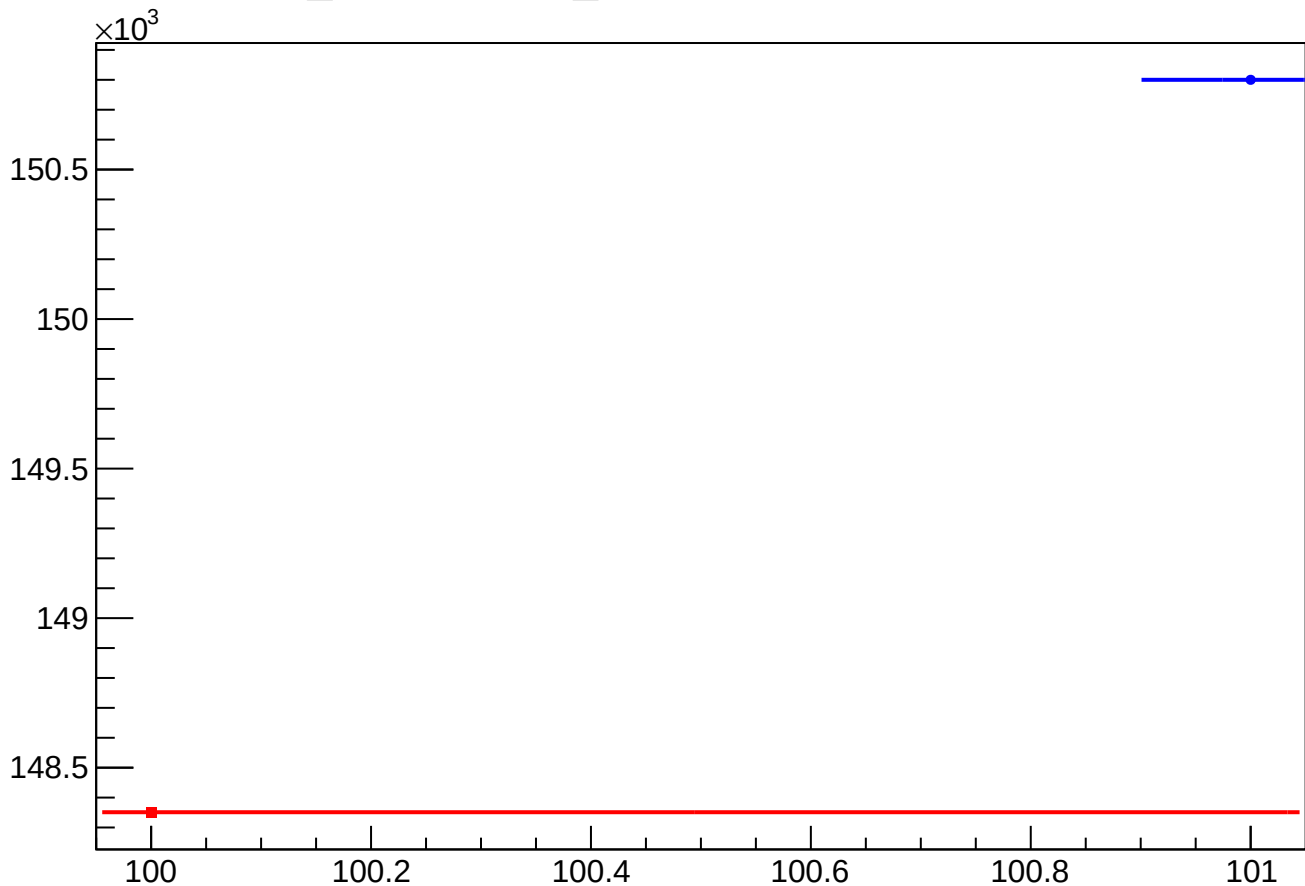
Right: 369.840+/-0.308  $\chi^2/\text{NDF}$ : 13207.1/1

In: 361.749+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 369.840+/-0.308  $\chi^2/\text{NDF}$ : 13207.1/1

# yield\_bpm0i07WS\_mean vs Slug, Sign Corrected



Right In: 150800.026 $\pm$ 0.465  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 148351.060 $\pm$ 1.935  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

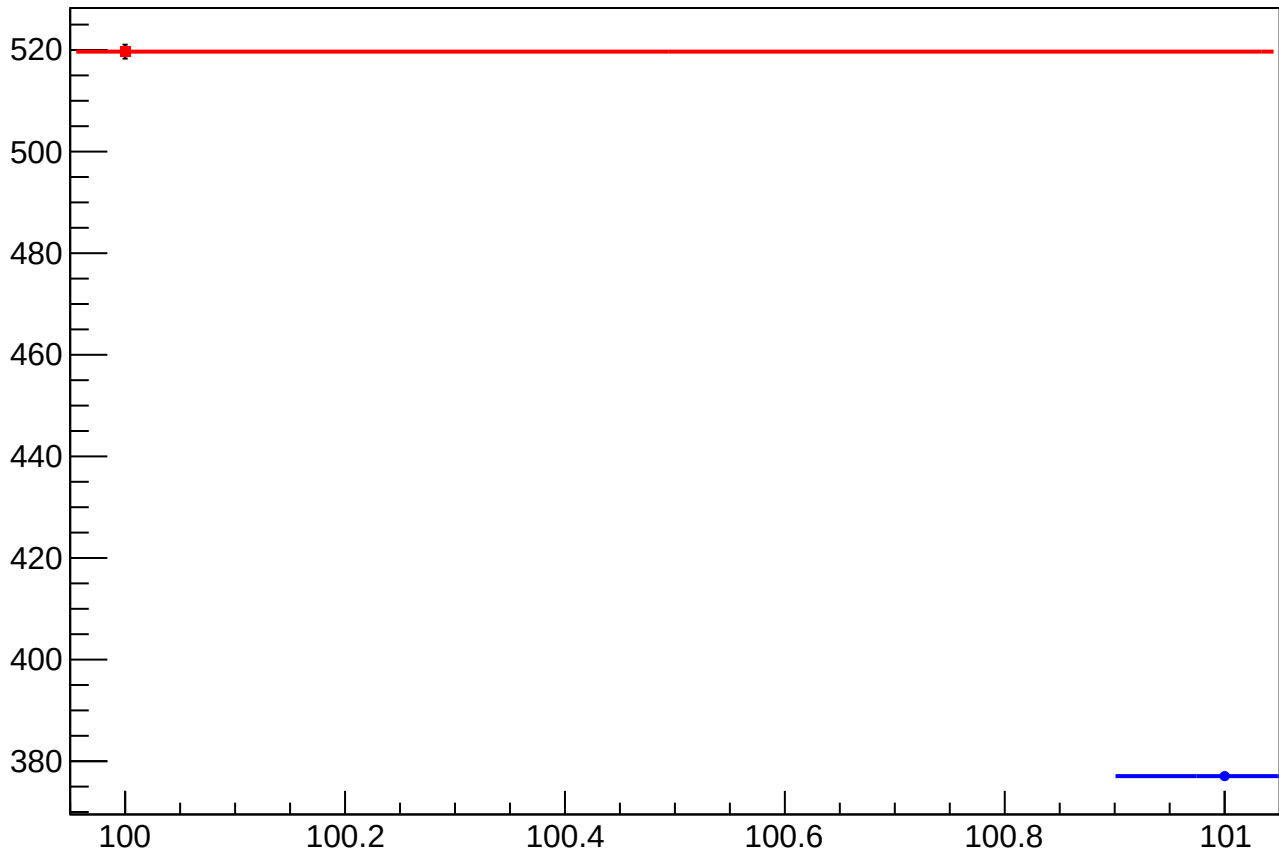
Right: 150666.082 $\pm$ 0.452  $\chi^2$ /NDF: 1514510.4/1

In: 150800.026 $\pm$ 0.465  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 150666.082 $\pm$ 0.452  $\chi^2$ /NDF: 1514510.4

# yield\_bpm0i07WS\_rms vs Slug, Sign Corrected



Right In: 377.063 $\pm$ 0.329  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 519.680 $\pm$ 1.368  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

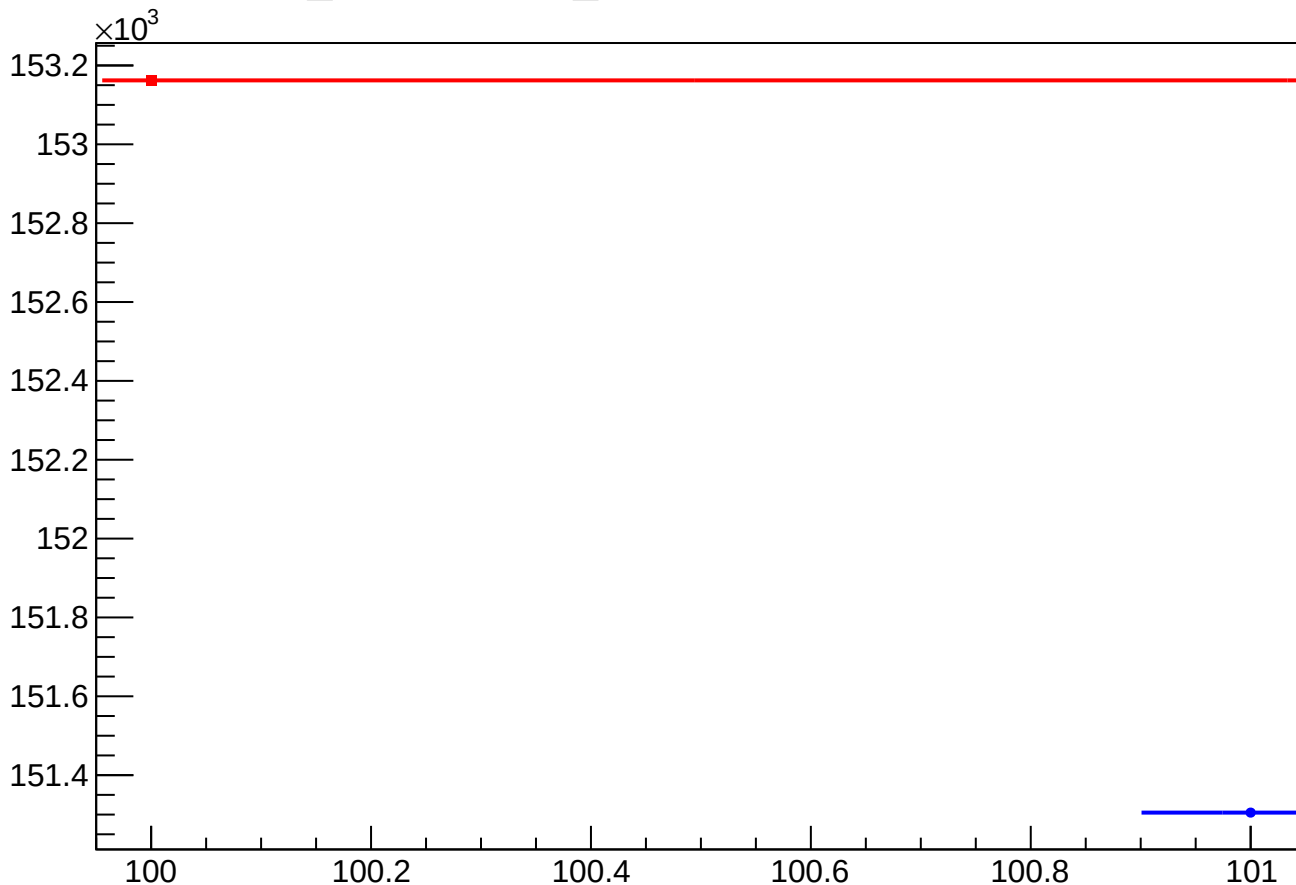
Right: 384.863 $\pm$ 0.320  $\chi^2$ /NDF: 10272.5/1

In: 377.063 $\pm$ 0.329  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 384.863 $\pm$ 0.320  $\chi^2$ /NDF: 10272.5/1

# yield\_bpm1i02WS\_mean vs Slug, Sign Corrected



Right In: 151305.014 $\pm$ 0.496  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 153162.157 $\pm$ 1.797  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

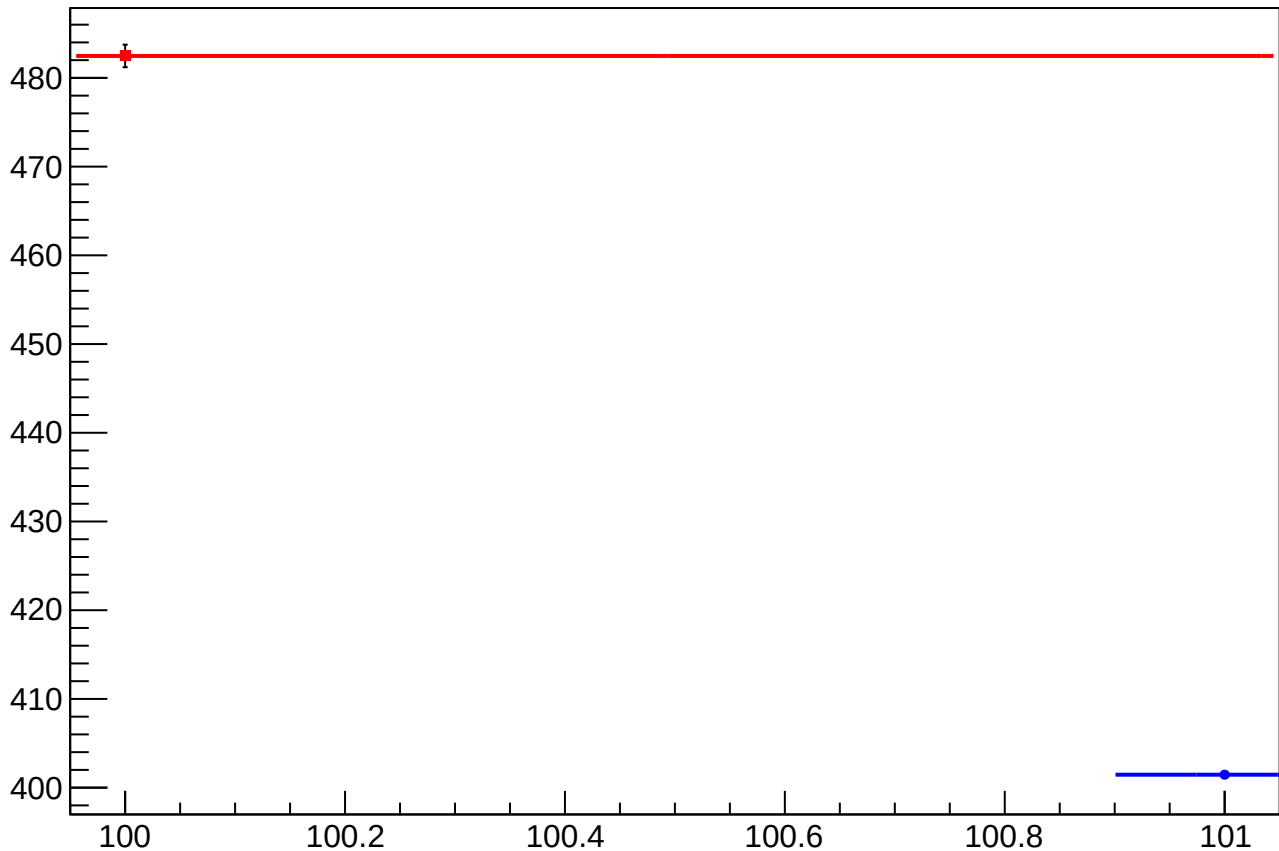
Right: 151436.210 $\pm$ 0.478  $\chi^2/\text{NDF}$ : 992097.1/1

In: 151305.014 $\pm$ 0.496  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 151436.210 $\pm$ 0.478  $\chi^2/\text{NDF}$ : 992097.1/1

# yield\_bpm1i02WS\_rms vs Slug, Sign Corrected



Right In: 401.461 $\pm$ 0.350  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 482.474 $\pm$ 1.271  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 407.184 $\pm$ 0.338  $\chi^2/\text{NDF}$ : 3775.8/1

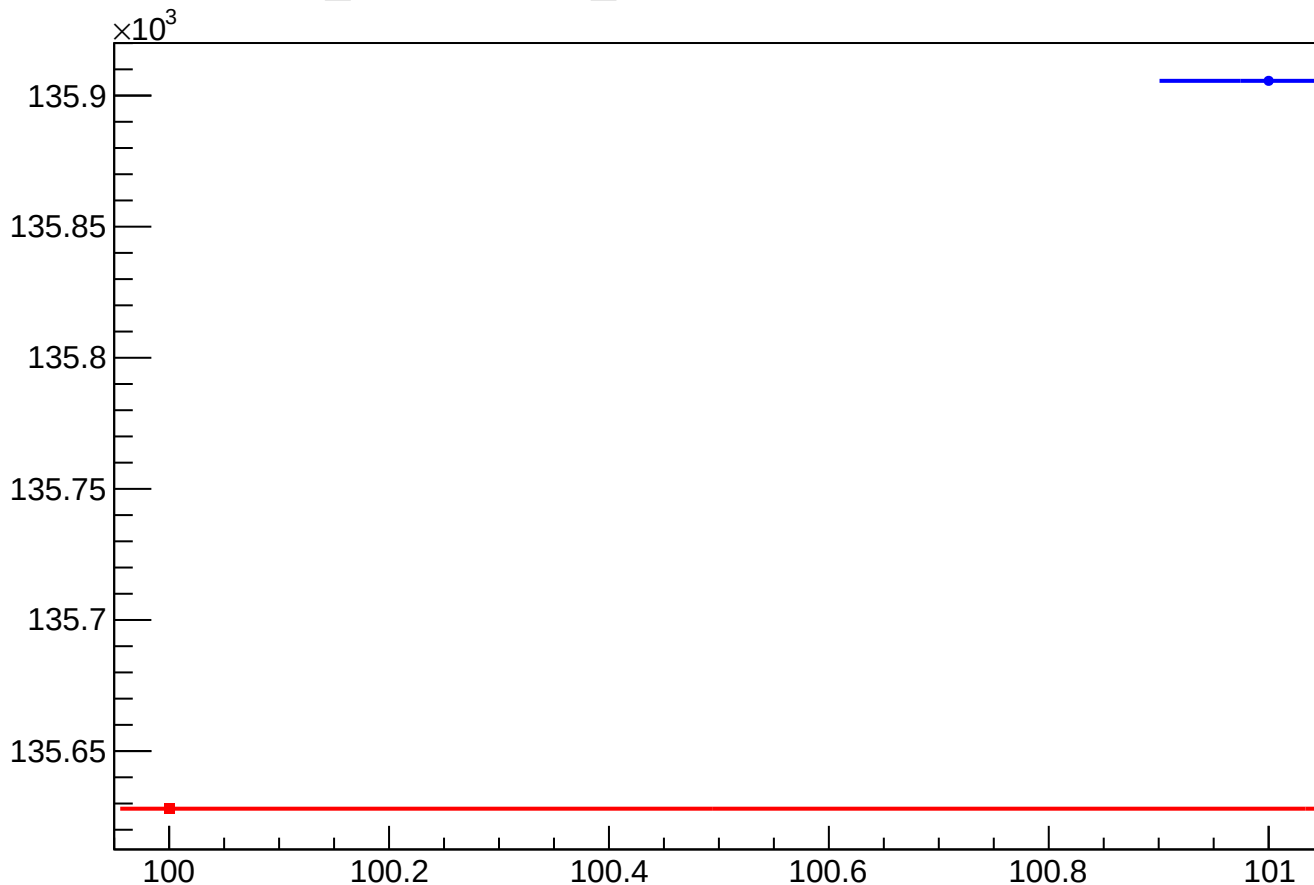
In: 401.461 $\pm$ 0.350  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 407.184 $\pm$ 0.338  $\chi^2/\text{NDF}$ : 3775.8/1



# yield\_bpm1i04WS\_mean vs Slug, Sign Corrected



Right In: 135905.616 $\pm$ 0.446  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135628.030 $\pm$ 1.567  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

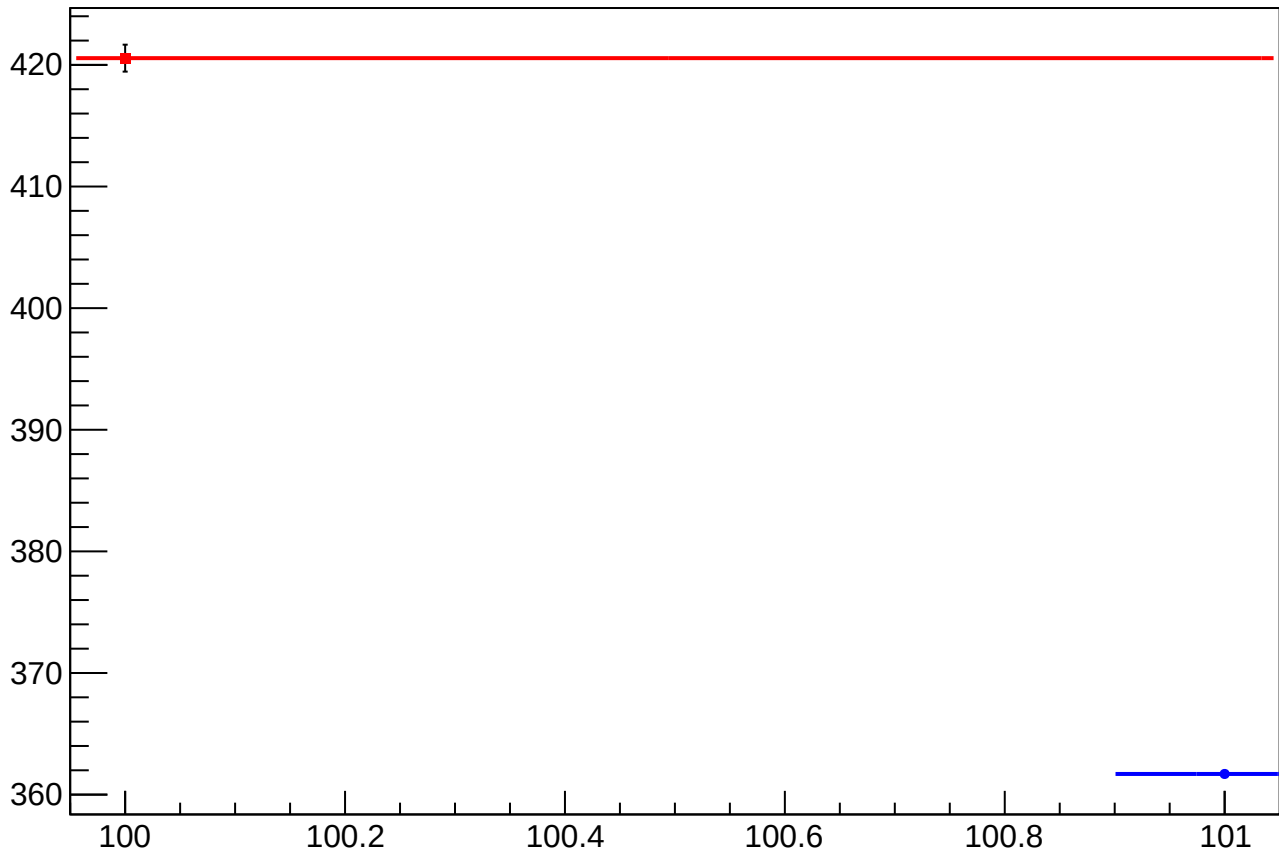
Right: 135884.769 $\pm$ 0.429  $\chi^2$ /NDF: 29030.3/1

In: 135905.616 $\pm$ 0.446  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135884.769 $\pm$ 0.429  $\chi^2$ /NDF: 29030.3/1

# yield\_bpm1i04WS\_rms vs Slug, Sign Corrected



Right In: 361.699+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 420.556+/-1.108  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

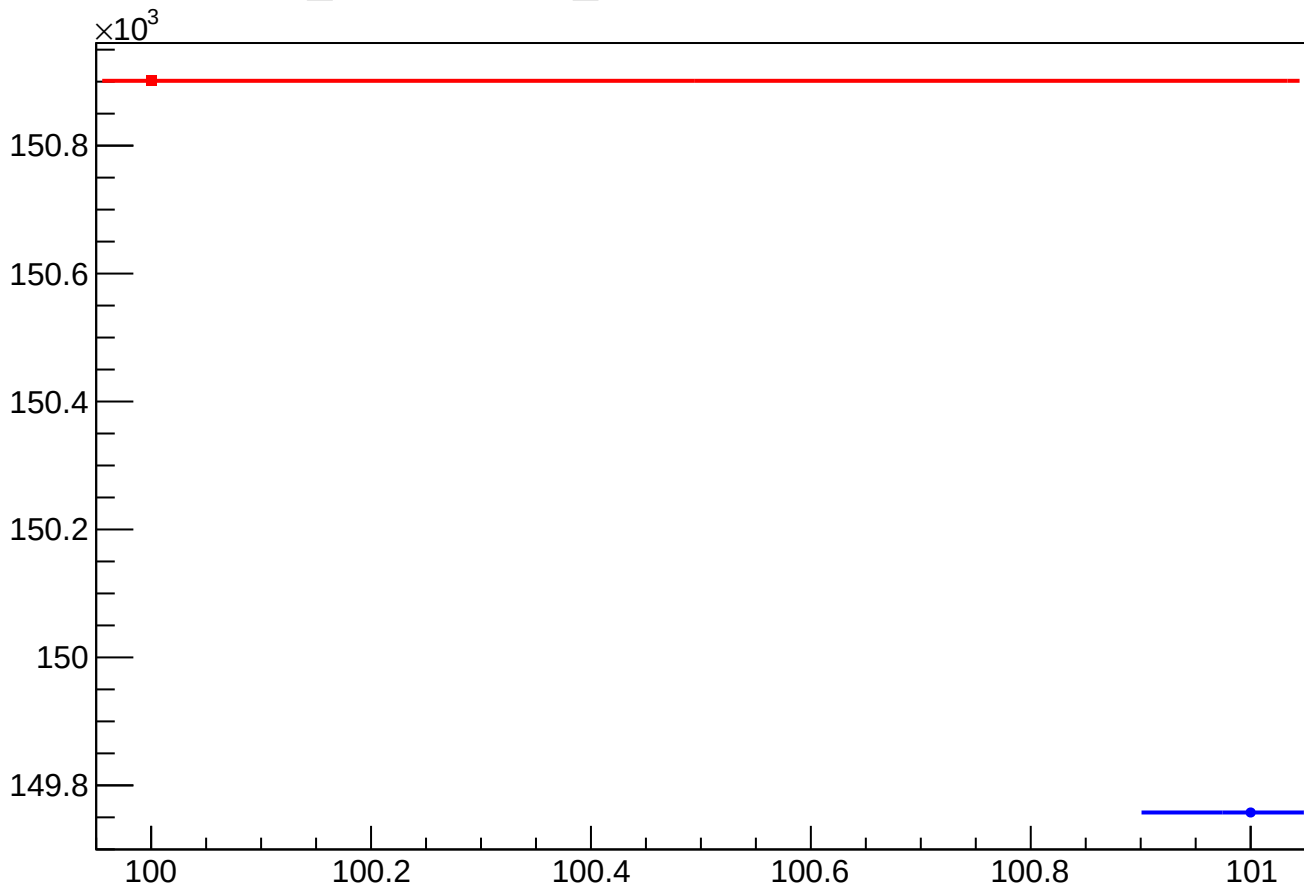
Right: 366.119+/-0.304  $\chi^2/\text{NDF}$ : 2610.3/1

In: 361.699+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 366.119+/-0.304  $\chi^2/\text{NDF}$ : 2610.3/1

# yield\_bpm1i06WS\_mean vs Slug, Sign Corrected



Right In: 149757.594 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 150901.314 $\pm$ 1.787  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

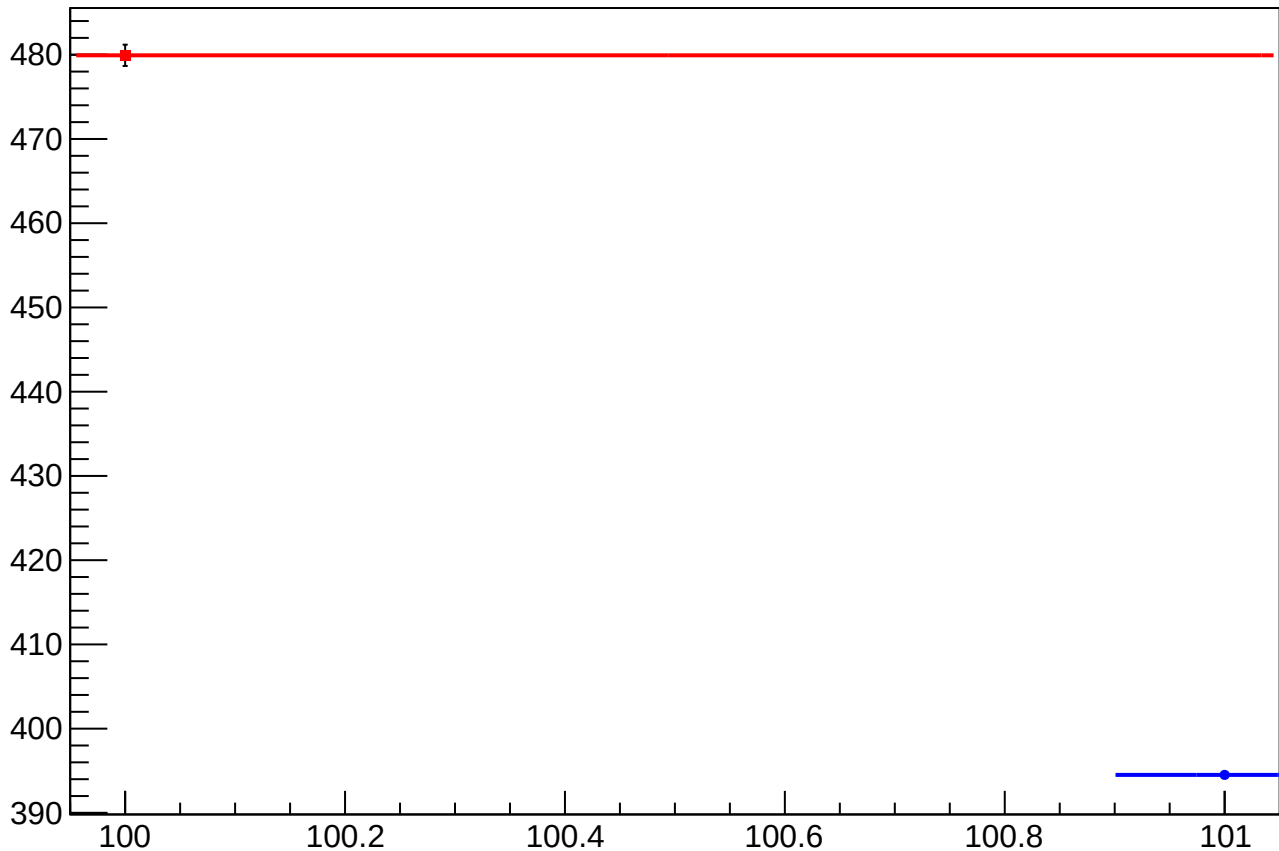
Right: 149836.697 $\pm$ 0.470  $\chi^2$ /NDF: 381442.5/1

In: 149757.594 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 149836.697 $\pm$ 0.470  $\chi^2$ /NDF: 381442.5/1

# yield\_bpm1i06WS\_rms vs Slug, Sign Corrected



Right In: 394.510 $\pm$ 0.344  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 479.932 $\pm$ 1.263  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

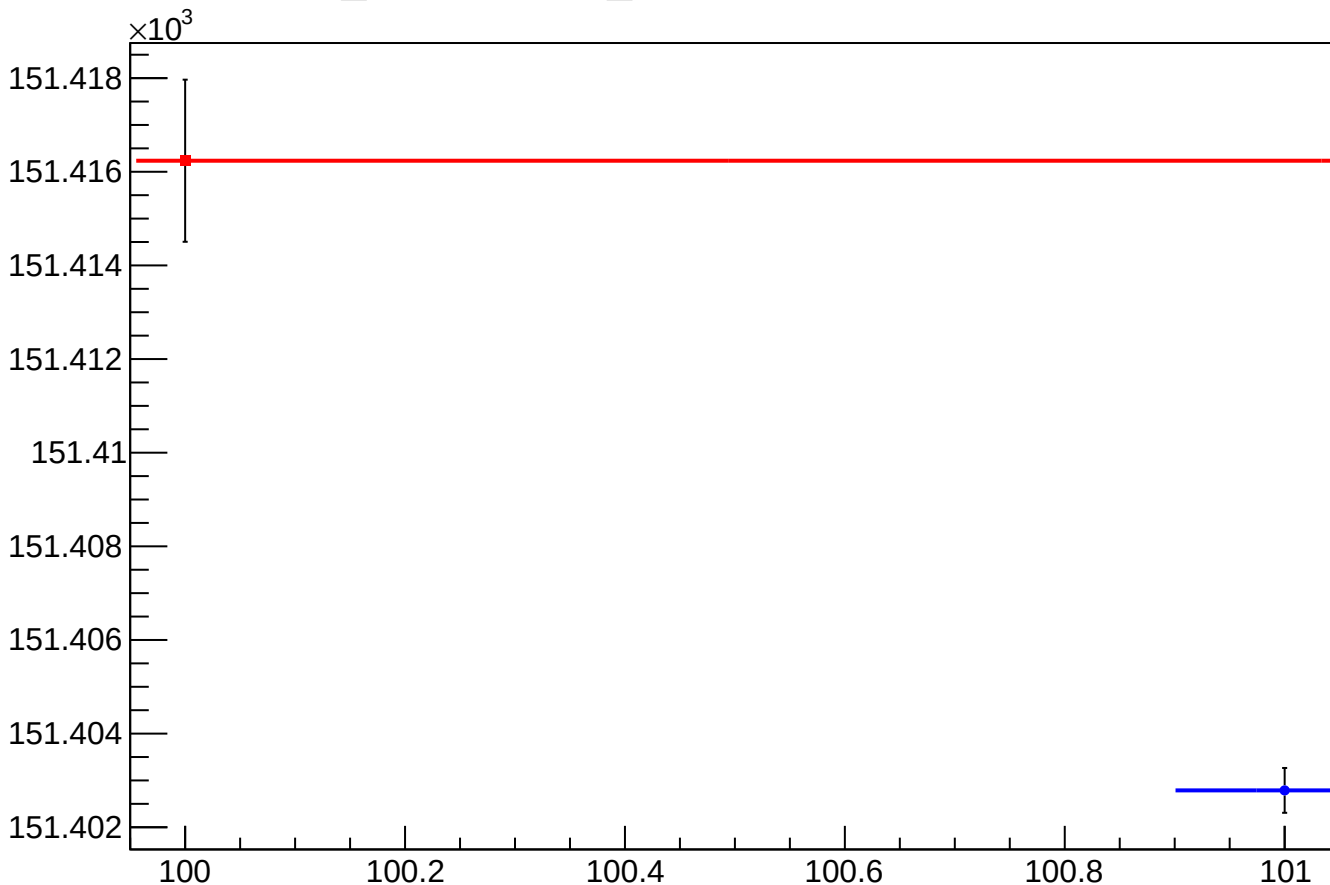
Right: 400.418 $\pm$ 0.332  $\chi^2$ /NDF: 4255.5/1

In: 394.510 $\pm$ 0.344  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 400.418 $\pm$ 0.332  $\chi^2$ /NDF: 4255.5/1

# yield\_bpm2i01WS\_mean vs Slug, Sign Corrected



Right In: 151402.787 $\pm$ 0.479  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 151416.236 $\pm$ 1.731  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

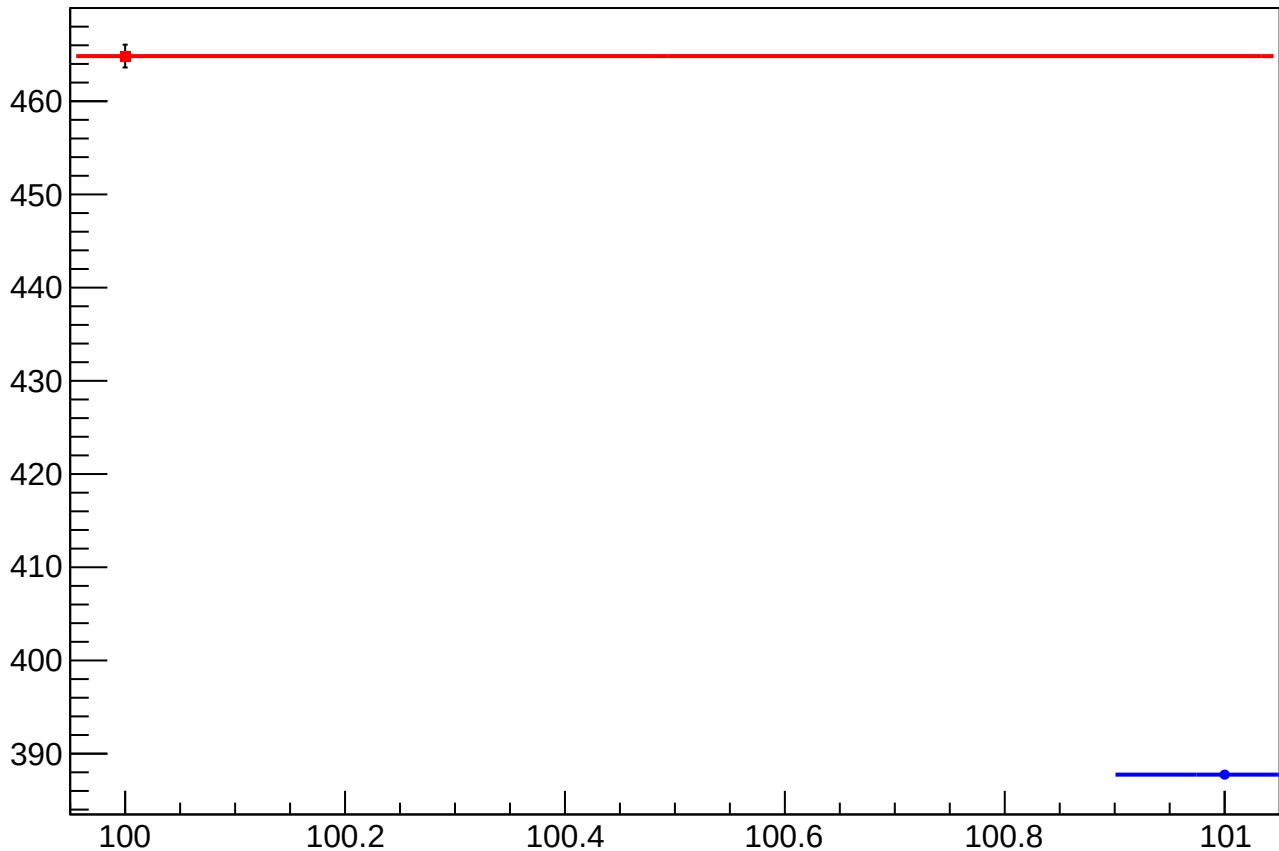
Right: 151403.743 $\pm$ 0.461  $\chi^2/\text{NDF}$ : 56.1/1

In: 151402.787 $\pm$ 0.479  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 151403.743 $\pm$ 0.461  $\chi^2/\text{NDF}$ : 56.1/1

# yield\_bpm2i01WS\_rms vs Slug, Sign Corrected



Right In: 387.750 $\pm$ 0.338  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 464.842 $\pm$ 1.224  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

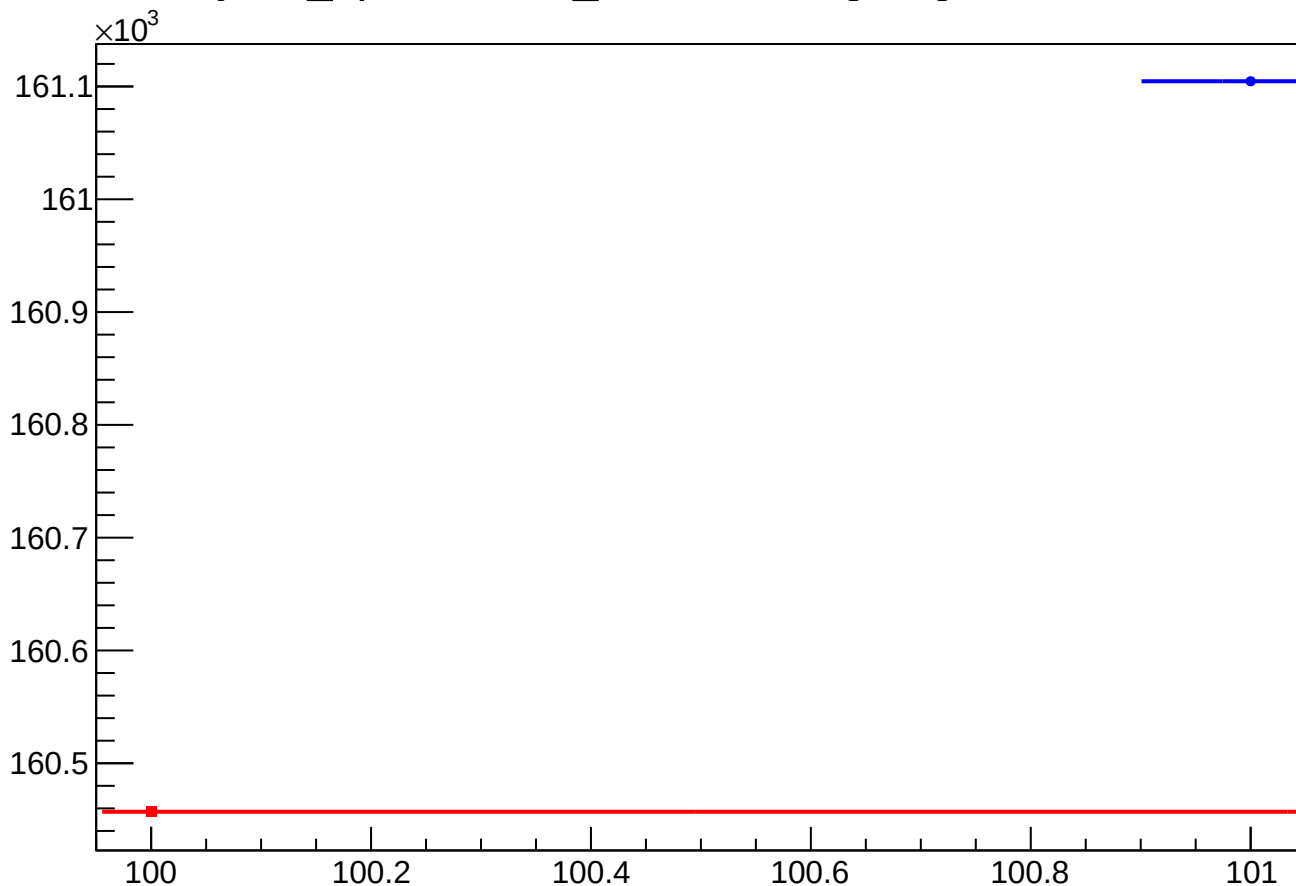
Right: 393.225 $\pm$ 0.326  $\chi^2/\text{NDF}$ : 3684.4/1

In: 387.750 $\pm$ 0.338  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 393.225 $\pm$ 0.326  $\chi^2/\text{NDF}$ : 3684.4/1

# yield\_bpm2i02WS\_mean vs Slug, Sign Corrected



Right In: 161104.640 $\pm$ 0.507  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 160457.005 $\pm$ 1.804  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

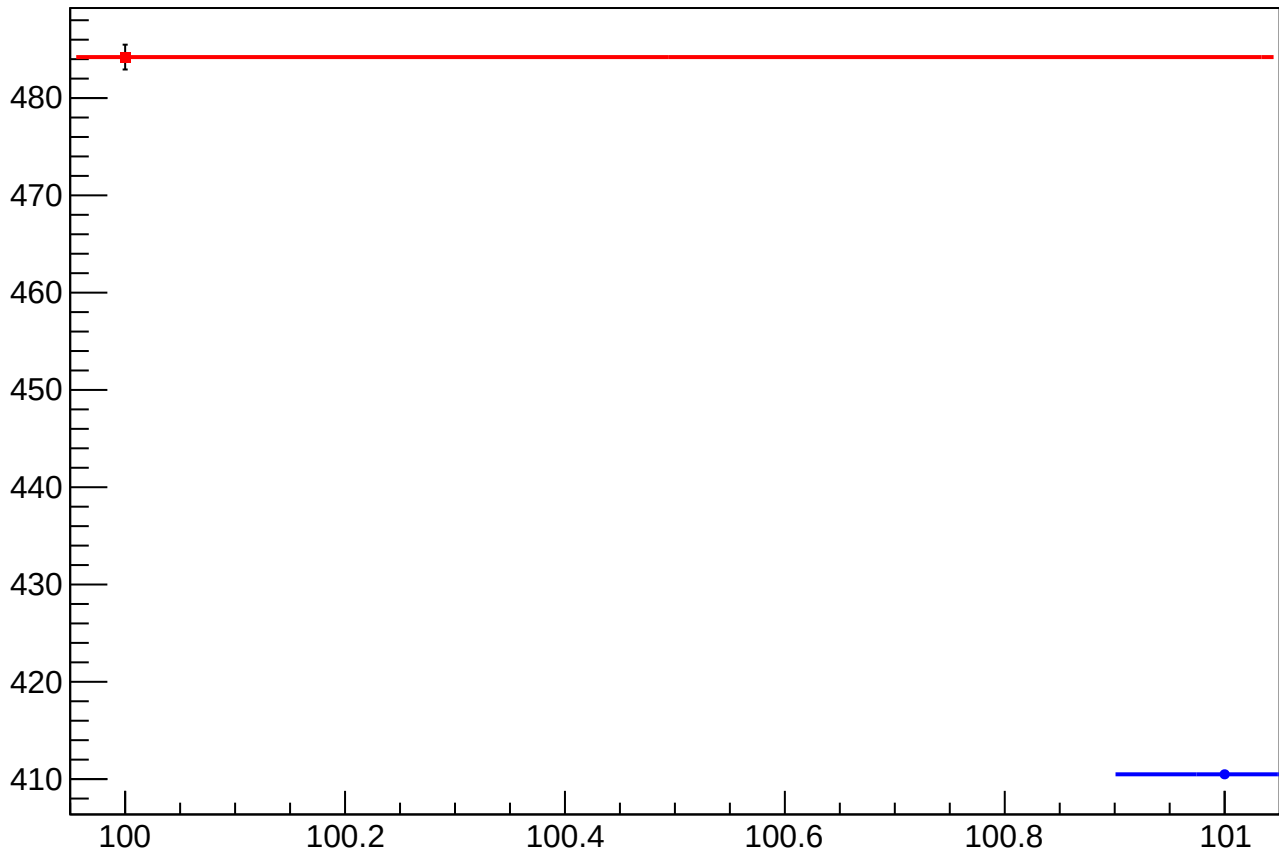
Right: 161057.281 $\pm$ 0.488  $\chi^2$ /NDF: 119452.1/1

In: 161104.640 $\pm$ 0.507  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 161057.281 $\pm$ 0.488  $\chi^2$ /NDF: 119452.1/1

# yield\_bpm2i02WS\_rms vs Slug, Sign Corrected



Right In: 410.492 +/- 0.358  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 484.213 +/- 1.276  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 415.883 +/- 0.345  $\chi^2/\text{NDF}$ : 3095.6/1

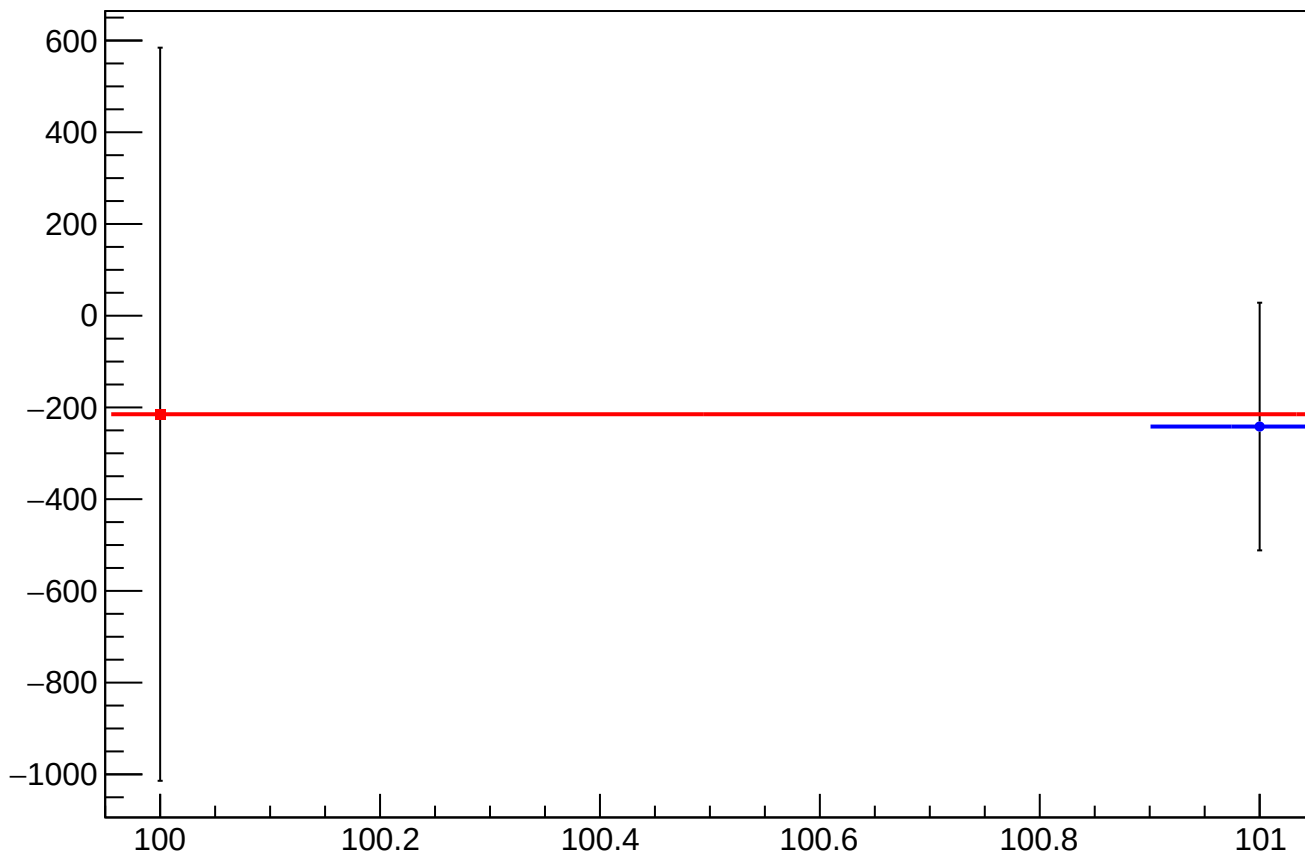
In: 410.492 +/- 0.358  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 415.883 +/- 0.345  $\chi^2/\text{NDF}$ : 3095.6/1



# asym\_bcm\_target\_mean vs Slug, Sign Corrected



Right In: -241.661 $\pm$ 270.002  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -214.820 $\pm$ 799.244  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

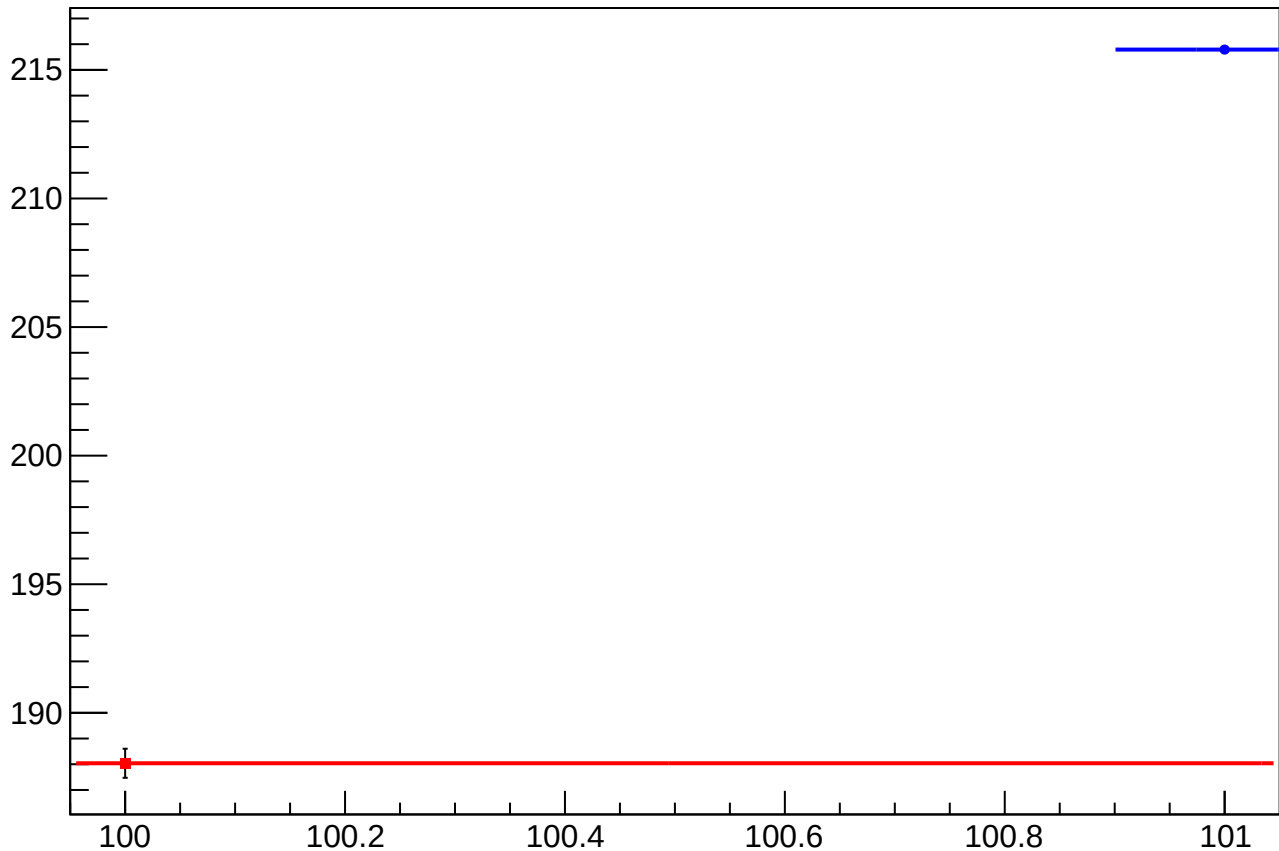
Right: -238.911 $\pm$ 255.800  $\chi^2$ /NDF: 0.0/1

In: -241.661 $\pm$ 270.002  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -238.911 $\pm$ 255.800  $\chi^2$ /NDF: 0.0/1

# asym\_bcm\_target\_rms vs Slug, Sign Corrected



Right In: 215.790 $\pm$ 0.191  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 188.038 $\pm$ 0.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

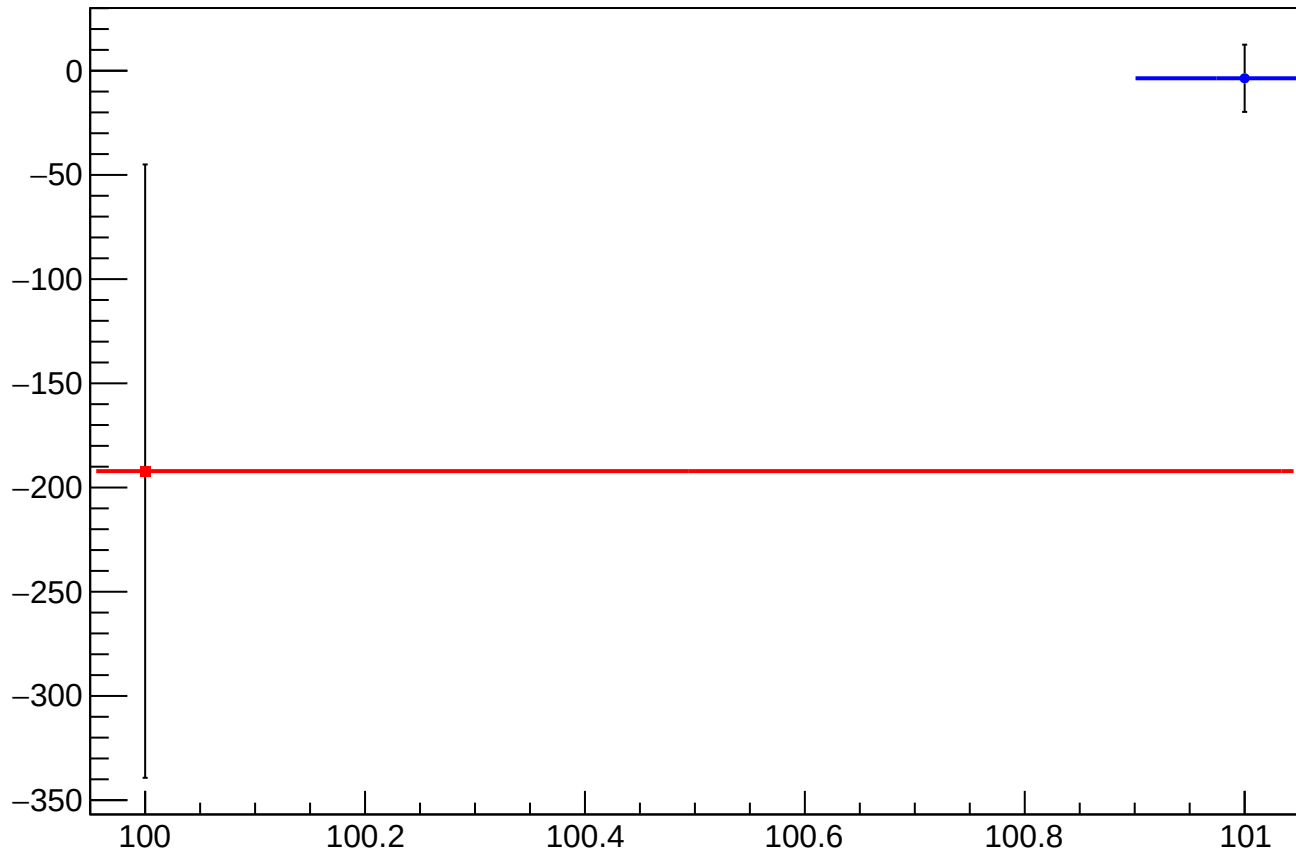
Right: 212.947 $\pm$ 0.181  $\chi^2$ /NDF: 2164.3/1

In: 215.790 $\pm$ 0.191  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 212.947 $\pm$ 0.181  $\chi^2$ /NDF: 2164.3/1

# asym\_bcm\_an\_diff\_mean vs Slug, Sign Corrected



Right In: -3.627+/-16.128  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -192.123+/-147.153  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

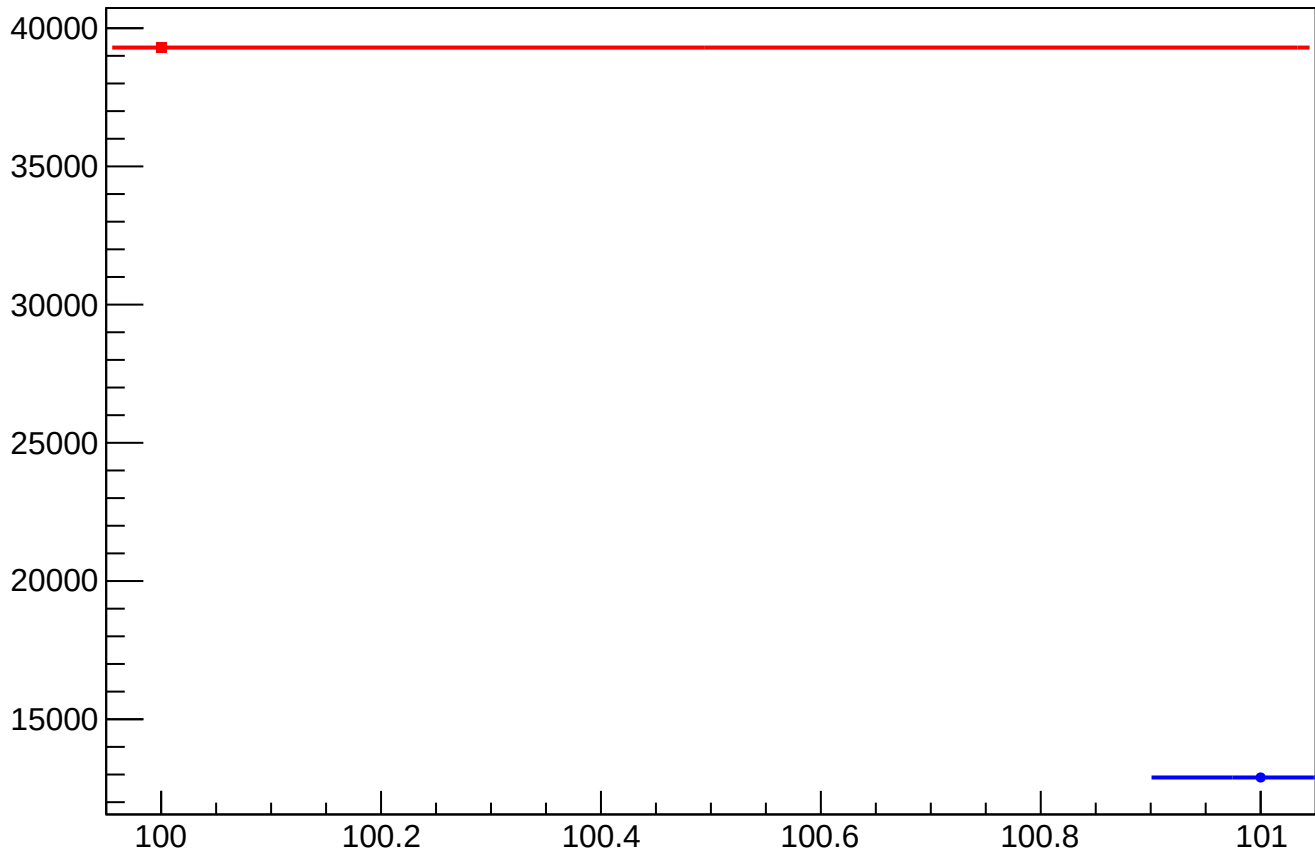
Right: -5.865+/-16.032  $\chi^2$ /NDF: 1.6/1

In: -3.627+/-16.128  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -5.865+/-16.032  $\chi^2$ /NDF: 1.6/1

# asym\_bcm\_an\_diff\_rms vs Slug, Sign Corrected



Right In: 12893.139+/-11.405  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 39299.785+/-104.053  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

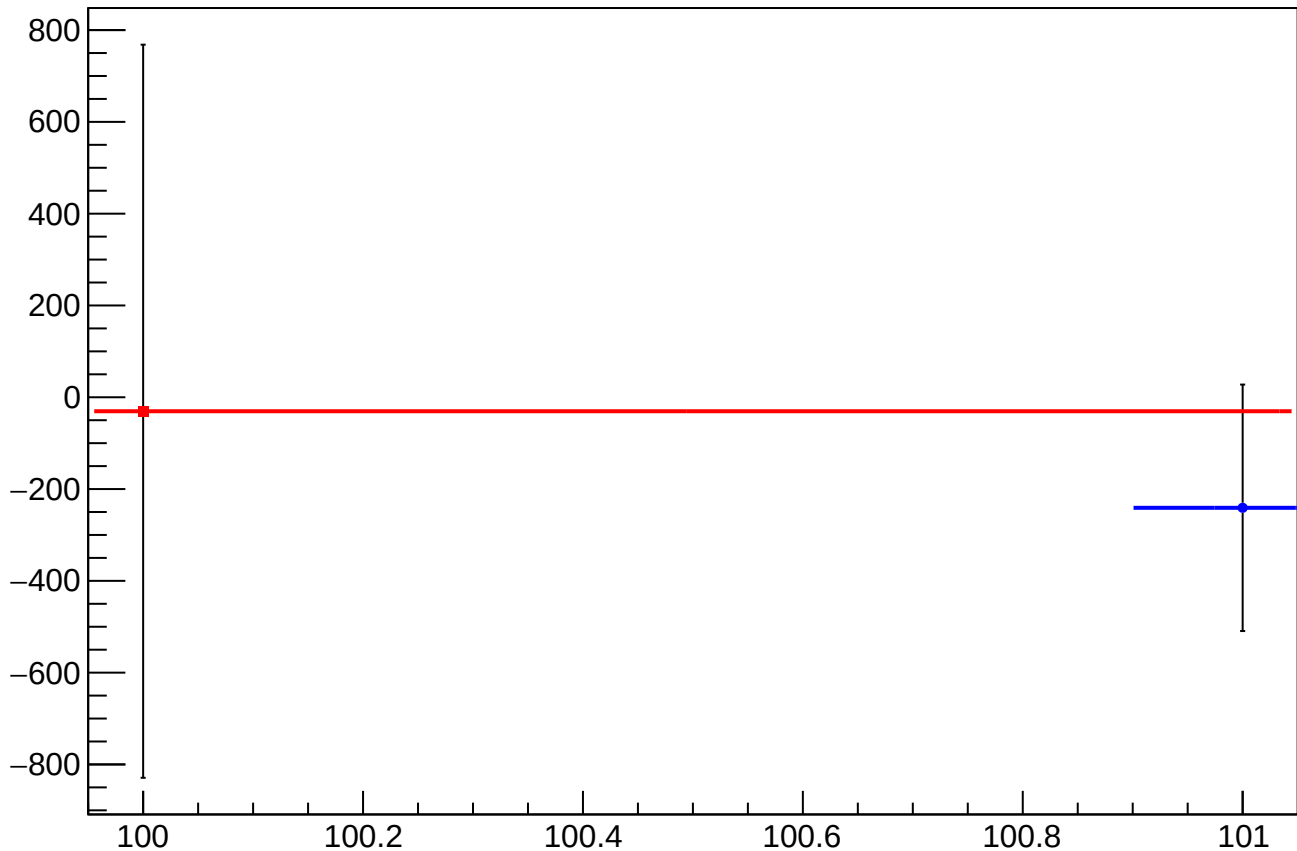
Right: 13206.595+/-11.337  $\chi^2/\text{NDF}$ : 63640.3/1

In: 12893.139+/-11.405  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13206.595+/-11.337  $\chi^2/\text{NDF}$ : 63640.3/1

# asym\_bcm\_an\_ds\_mean vs Slug, Sign Corrected



Right In: -240.856+/-268.490  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -30.443+/-798.662  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

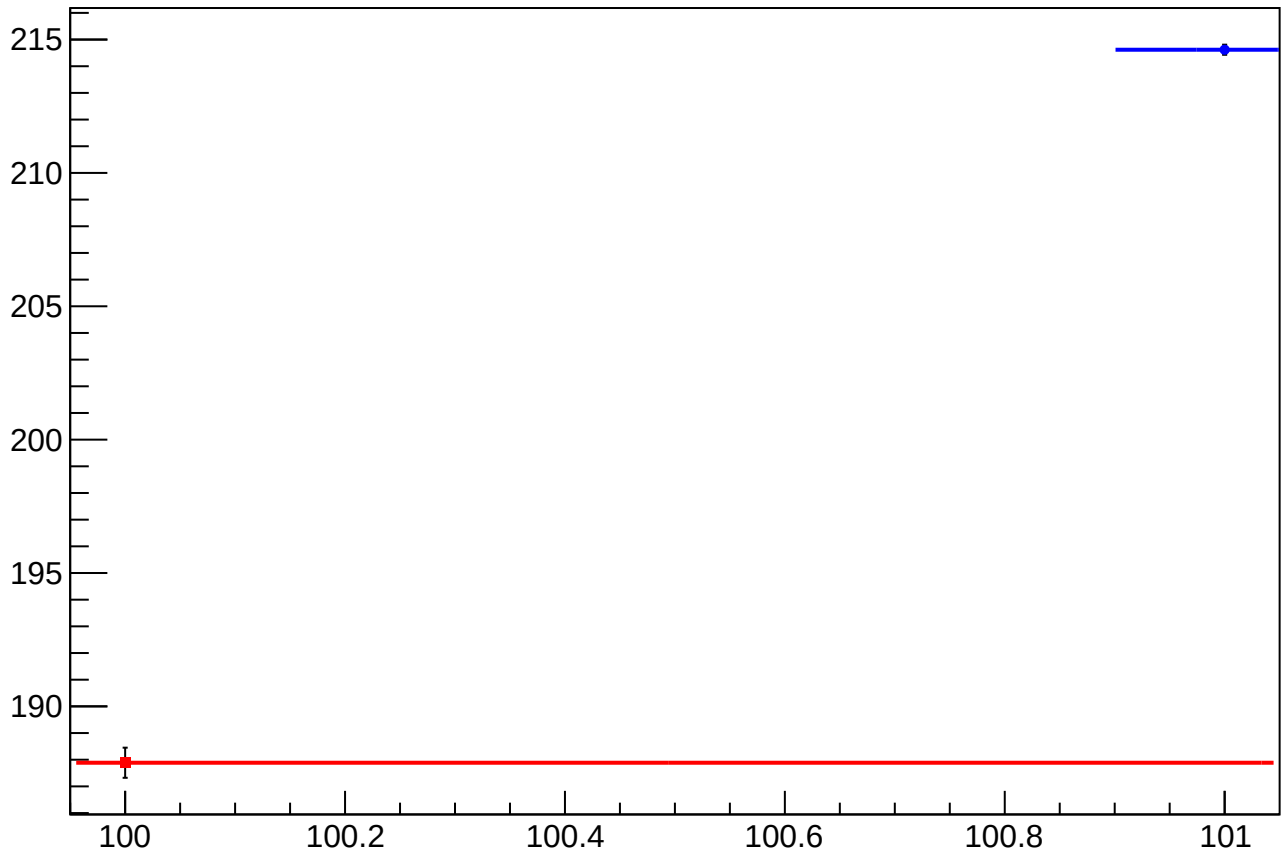
Right: -219.491+/-254.494  $\chi^2/\text{NDF}$ : 0.1/1

In: -240.856+/-268.490  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -219.491+/-254.494  $\chi^2/\text{NDF}$ : 0.1/1

# asym\_bcm\_an\_ds\_rms vs Slug, Sign Corrected



Right In: 214.618 $\pm$ 0.190  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 187.887 $\pm$ 0.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

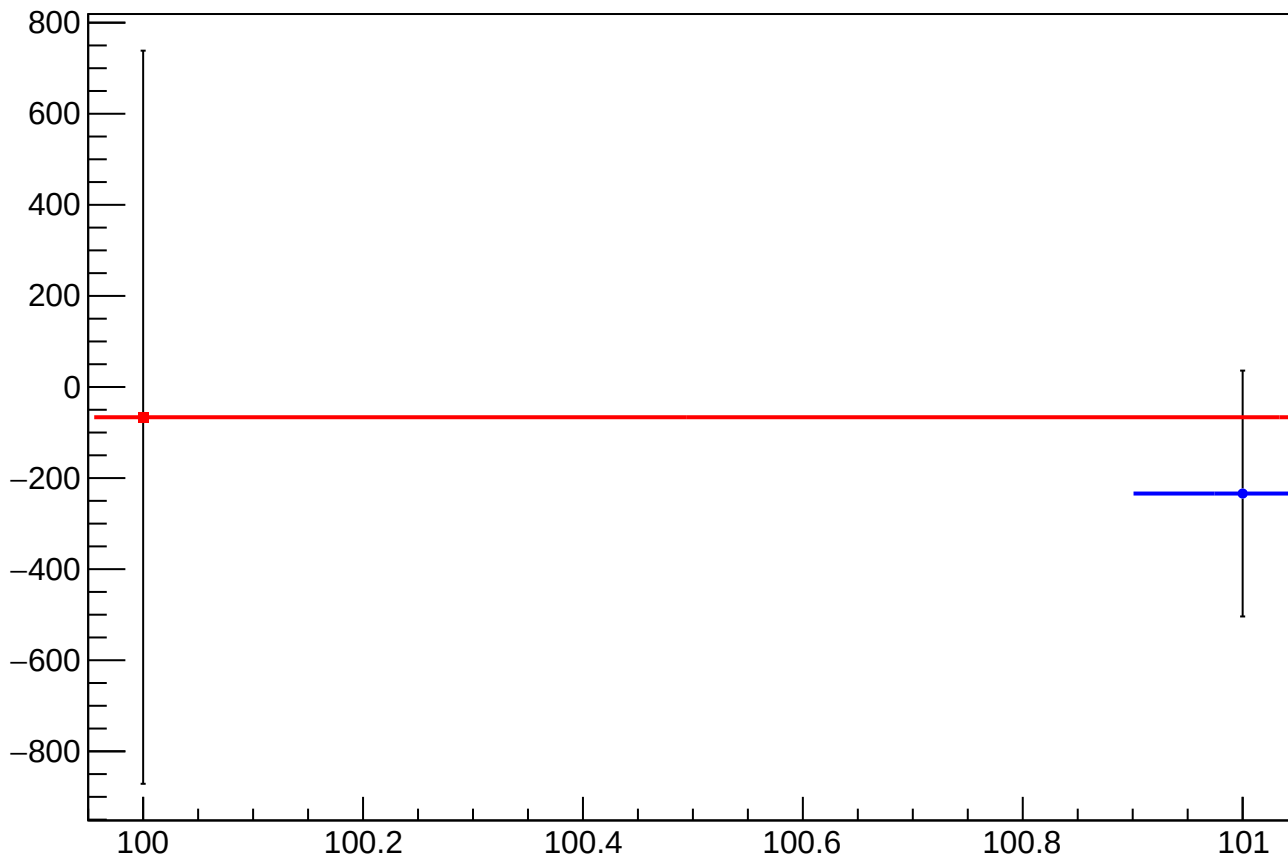
Right: 211.904 $\pm$ 0.180  $\chi^2$ /NDF: 2013.1/1

In: 214.618 $\pm$ 0.190  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 211.904 $\pm$ 0.180  $\chi^2$ /NDF: 2013.1/1

# asym\_bcm\_an\_ds3\_mean vs Slug, Sign Corrected



Right In: -233.954+/-269.932  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -66.401+/-804.923  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

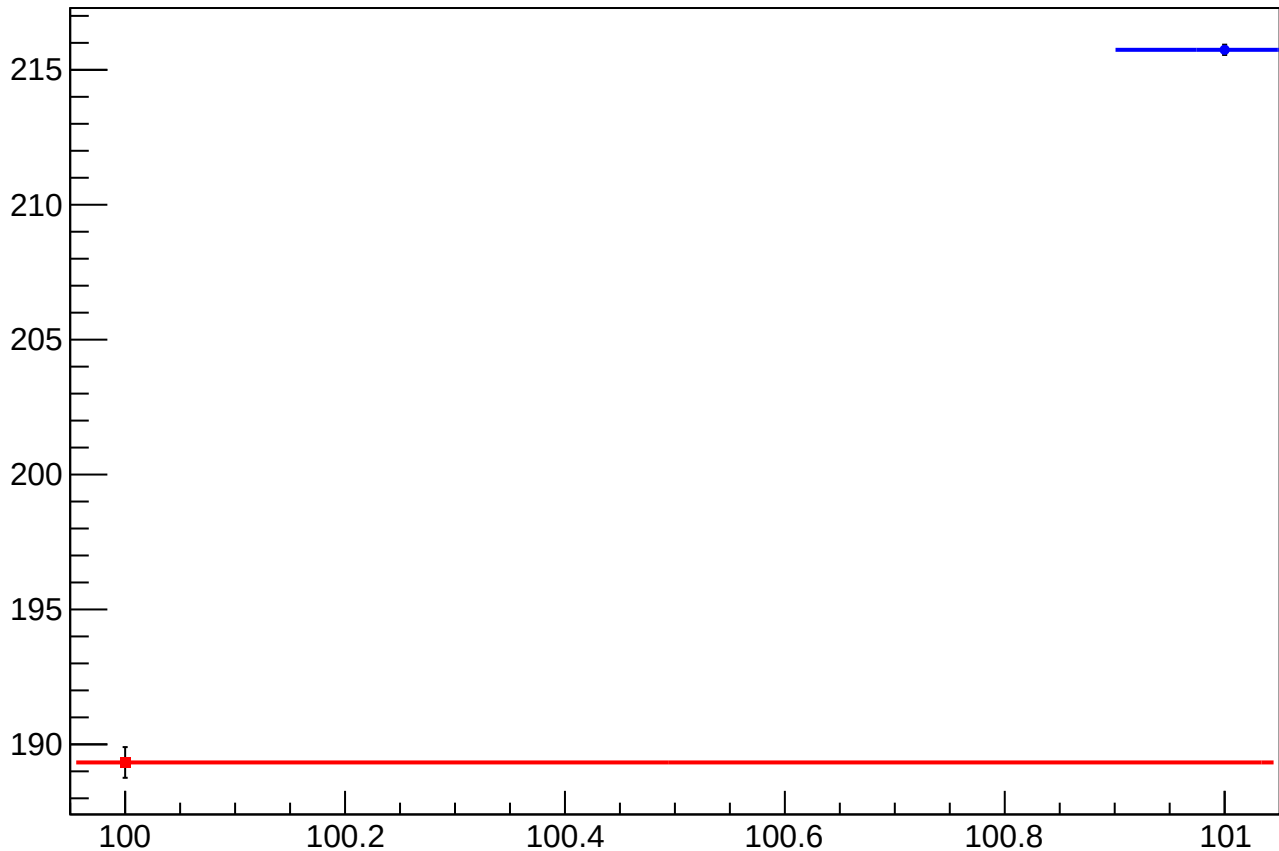
Right: -217.016+/-255.924  $\chi^2$ /NDF: 0.0/1

In: -233.954+/-269.932  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -217.016+/-255.924  $\chi^2$ /NDF: 0.0/1

# asym\_bcm\_an\_ds3\_rms vs Slug, Sign Corrected



Right In: 215.742 $\pm$ 0.191  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 189.330 $\pm$ 0.569  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 213.072 $\pm$ 0.181  $\chi^2$ /NDF: 1935.8/1

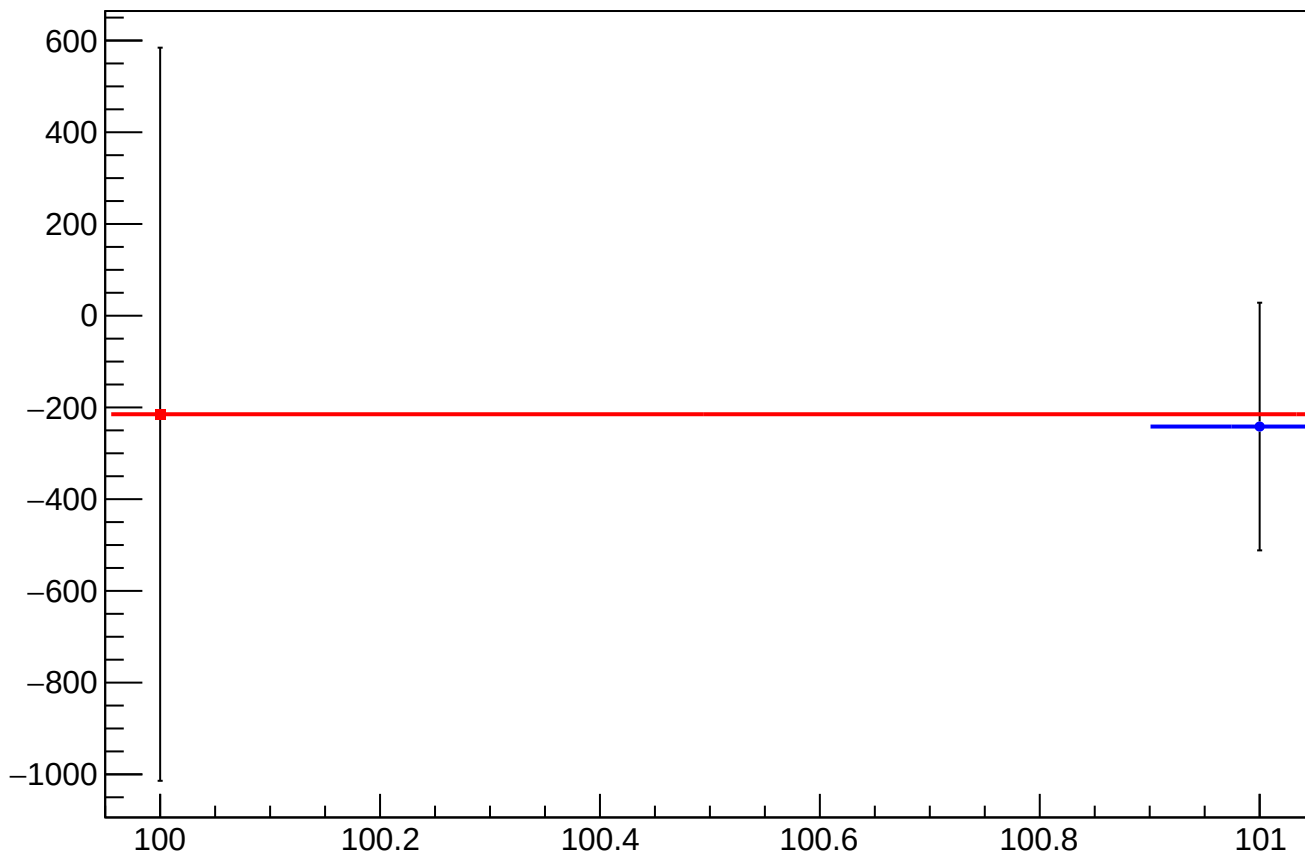
In: 215.742 $\pm$ 0.191  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 213.072 $\pm$ 0.181  $\chi^2$ /NDF: 1935.8/1



# asym\_bcm\_an\_us\_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: -238.911+/-255.800  $\chi^2$ /NDF: 0.0/1

In: -241.661+/-270.002  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -238.911+/-255.800  $\chi^2$ /NDF: 0.0/1

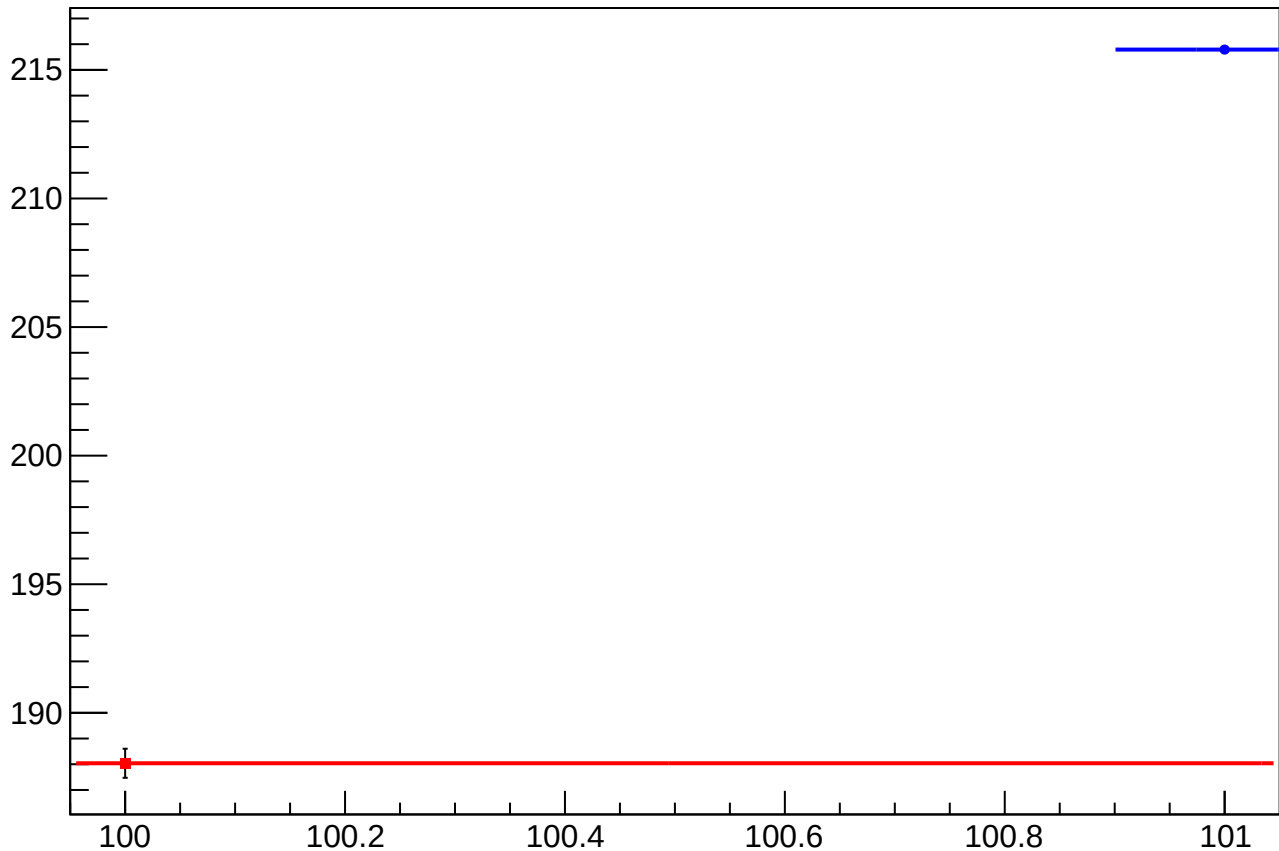
Right In: -241.661+/-270.002  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -214.820+/-799.244  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_rms vs Slug, Sign Corrected



Right In: 215.790 $\pm$ 0.191  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 188.038 $\pm$ 0.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

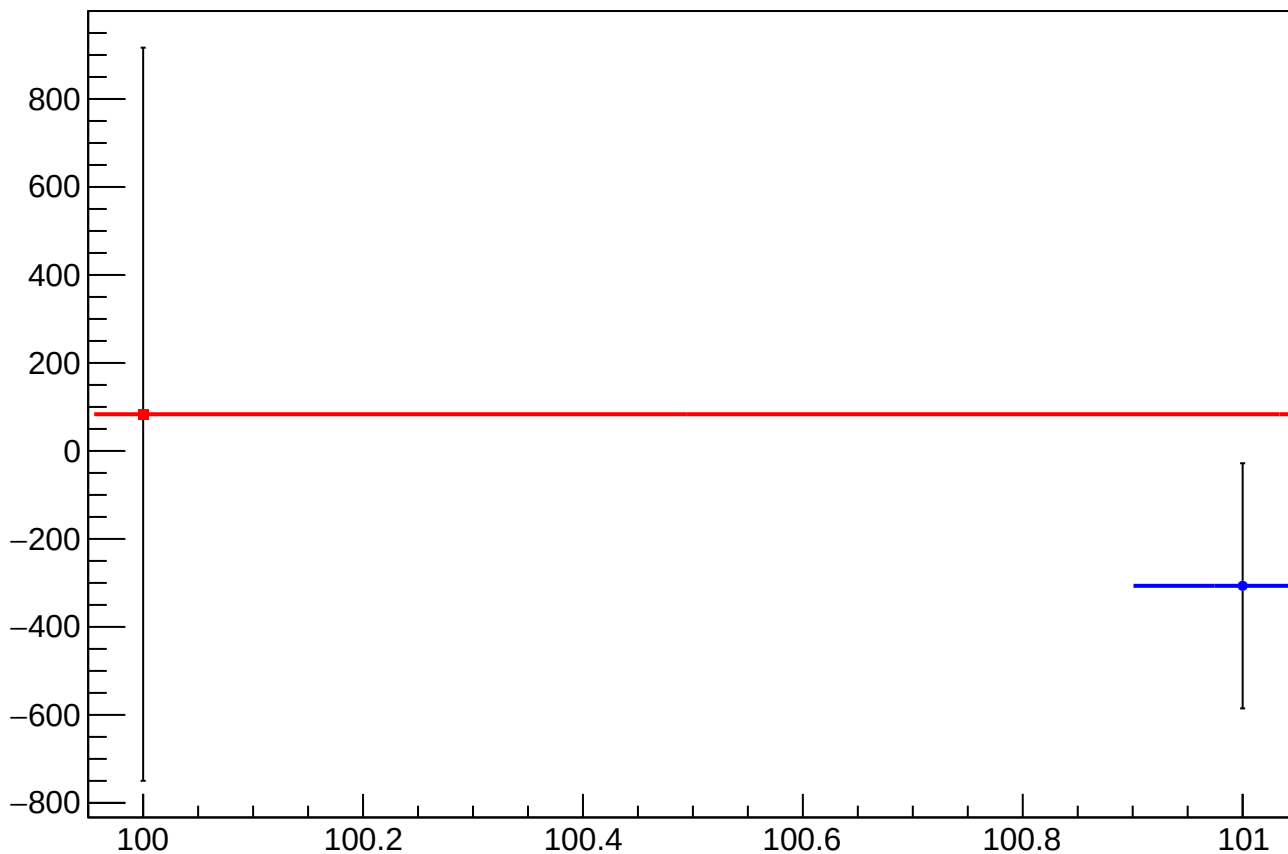
Right: 212.947 $\pm$ 0.181  $\chi^2$ /NDF: 2164.3/1

In: 215.790 $\pm$ 0.191  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 212.947 $\pm$ 0.181  $\chi^2$ /NDF: 2164.3/1

# asym\_bcm\_dg\_us\_mean vs Slug, Sign Corrected



Right In: -306.596+/-278.579  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 83.410+/-833.207  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

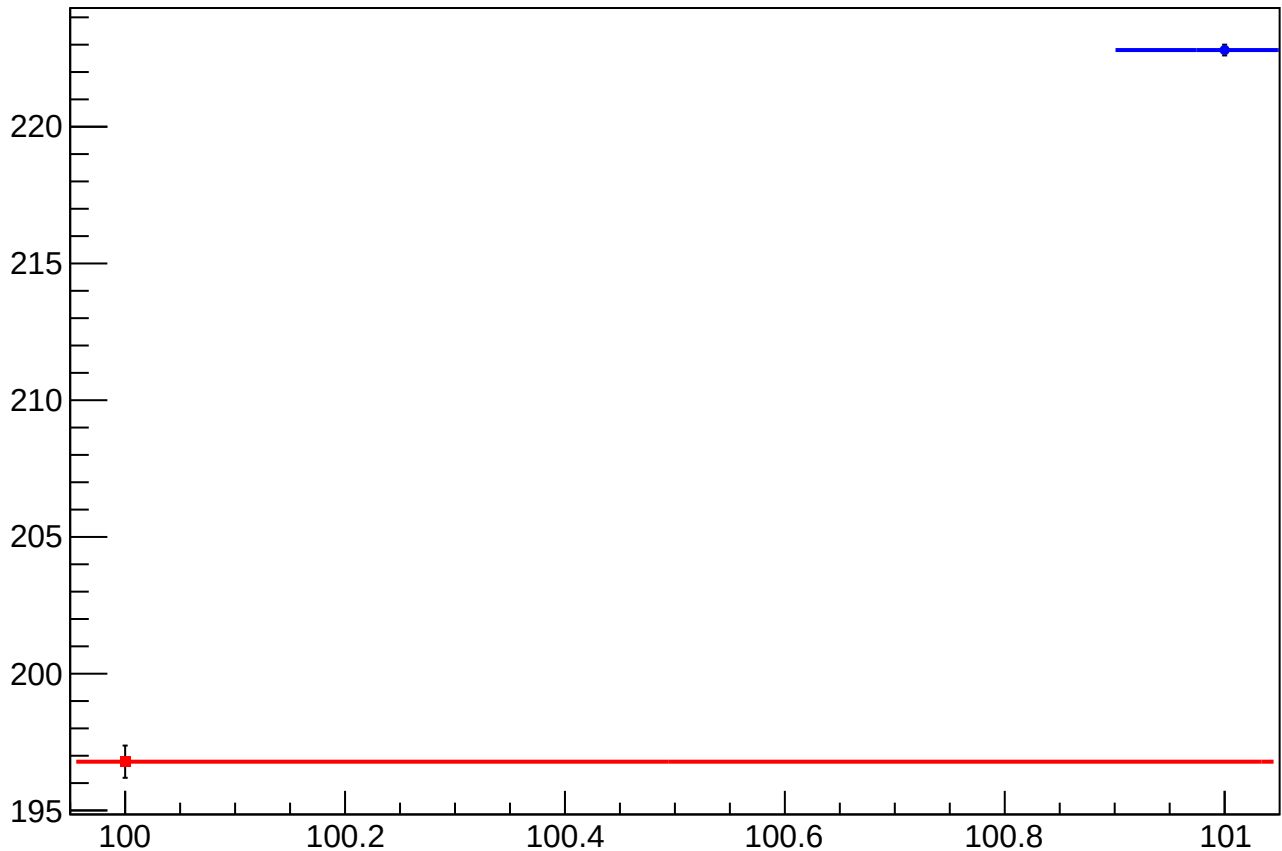
Right: -267.382+/-264.203  $\chi^2/\text{NDF}$ : 0.2/1

In: -306.596+/-278.579  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -267.382+/-264.203  $\chi^2/\text{NDF}$ : 0.2/1

# asym\_bcm\_dg\_us\_rms vs Slug, Sign Corrected



Right In: 222.803 $\pm$ 0.197  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 196.783 $\pm$ 0.589  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

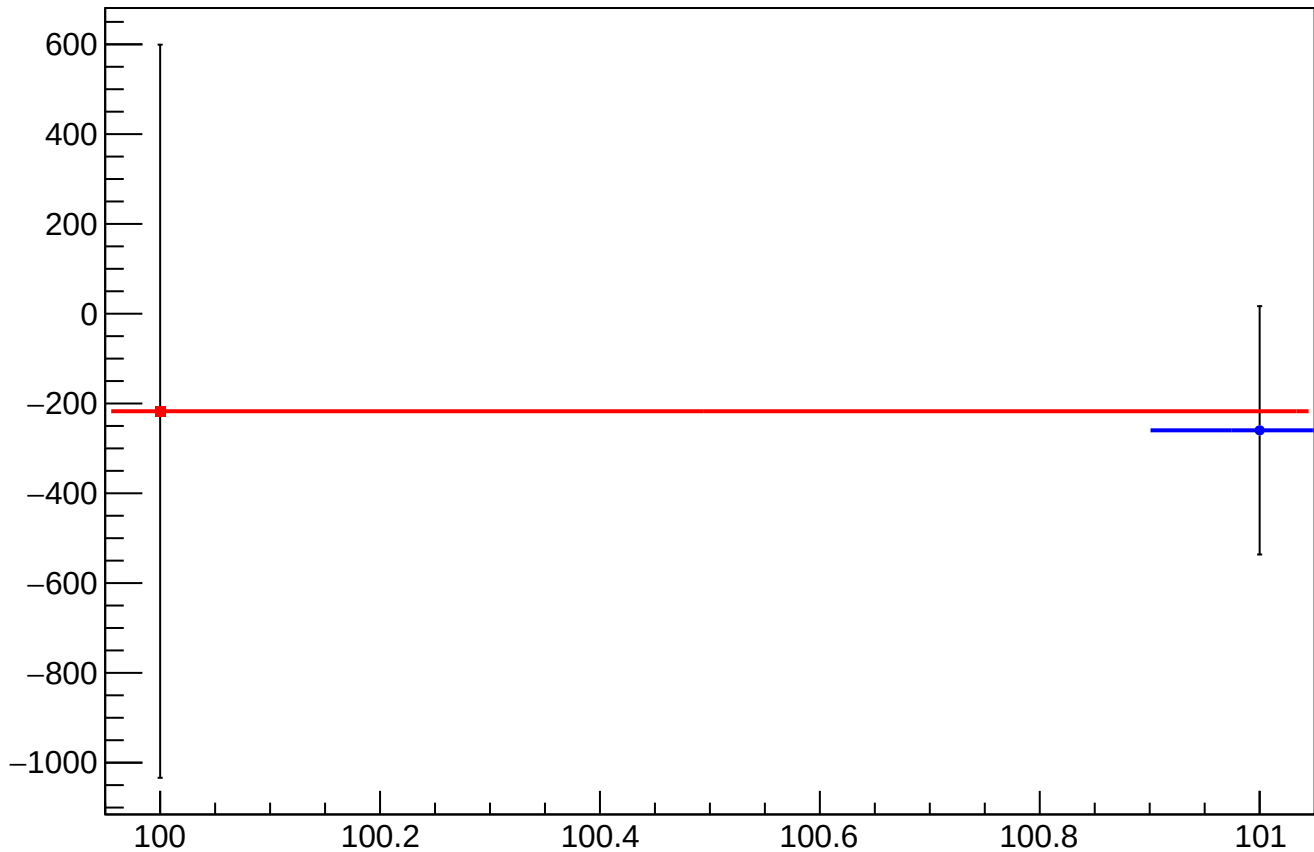
Right: 220.187 $\pm$ 0.187  $\chi^2$ /NDF: 1754.5/1

In: 222.803 $\pm$ 0.197  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 220.187 $\pm$ 0.187  $\chi^2$ /NDF: 1754.5/1

# asym\_bcm\_dg\_ds\_mean vs Slug, Sign Corrected



Right In: -259.743+/-276.616  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -217.223+/-816.481  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

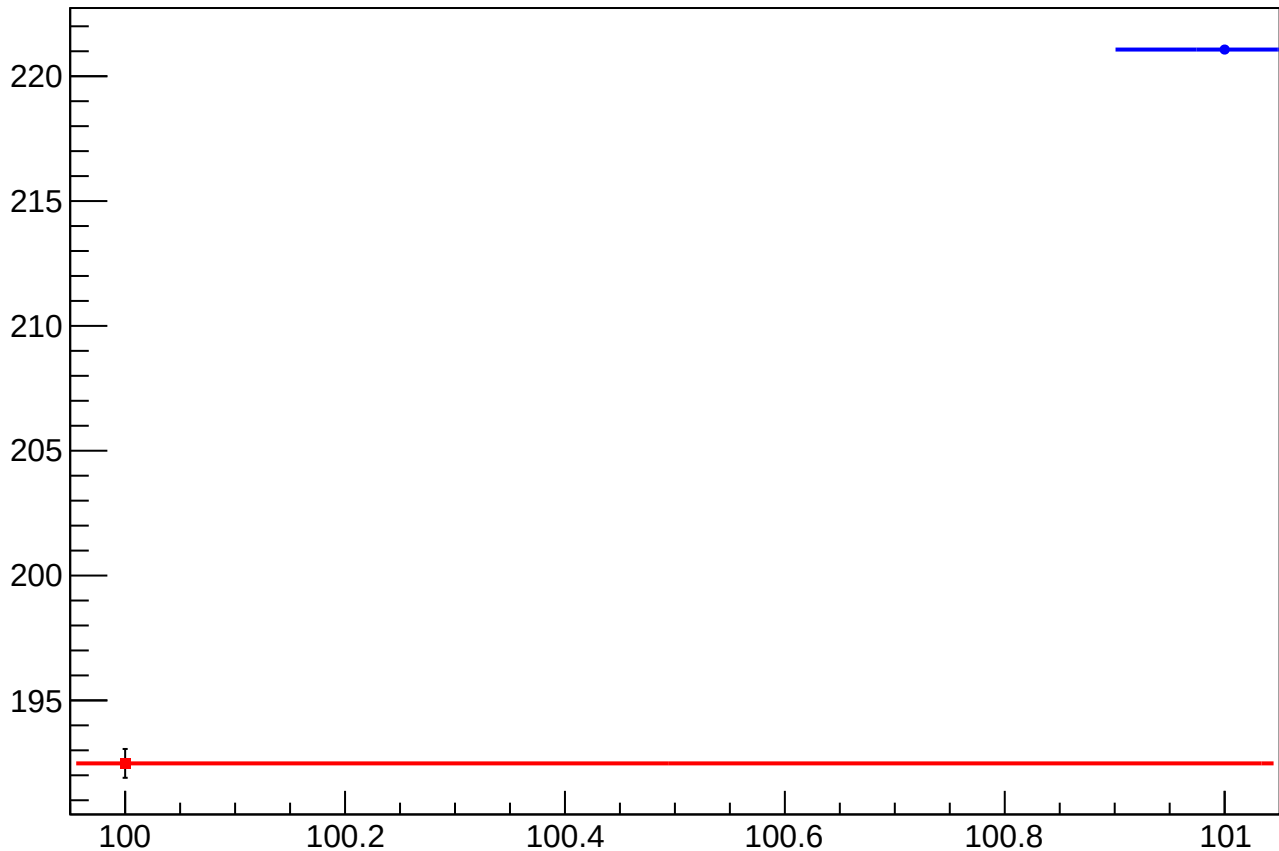
Right: -255.365+/-261.989  $\chi^2/\text{NDF}$ : 0.0/1

In: -259.743+/-276.616  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -255.365+/-261.989  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_bcm\_dg\_ds\_rms vs Slug, Sign Corrected



Right In: 221.068 $\pm$ 0.196  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 192.477 $\pm$ 0.577  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

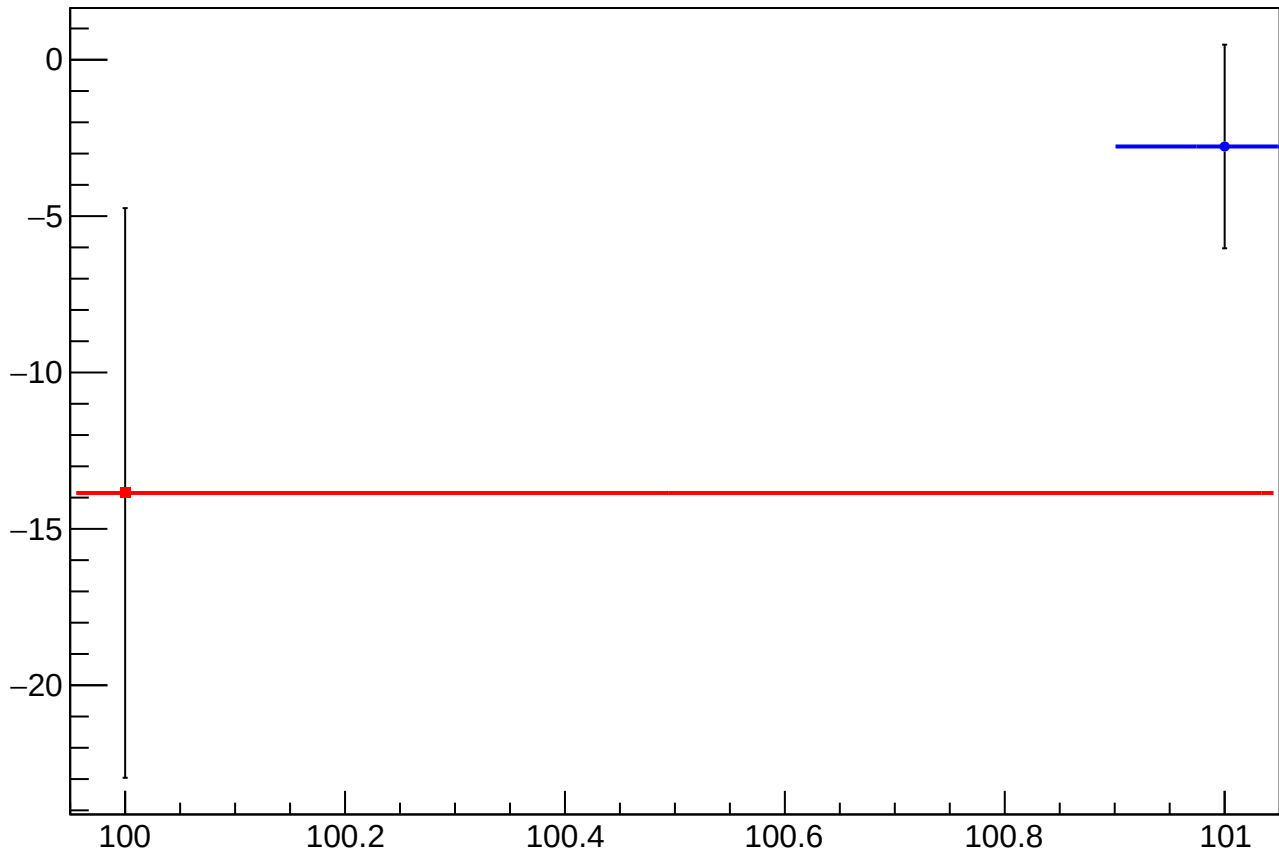
Right: 218.124 $\pm$ 0.185  $\chi^2$ /NDF: 2200.0/1

In: 221.068 $\pm$ 0.196  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 218.124 $\pm$ 0.185  $\chi^2$ /NDF: 2200.0/1

# asym\_cav4bQ\_mean vs Slug, Sign Corrected



Right In: -2.773+/-3.256  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.852+/-9.108  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

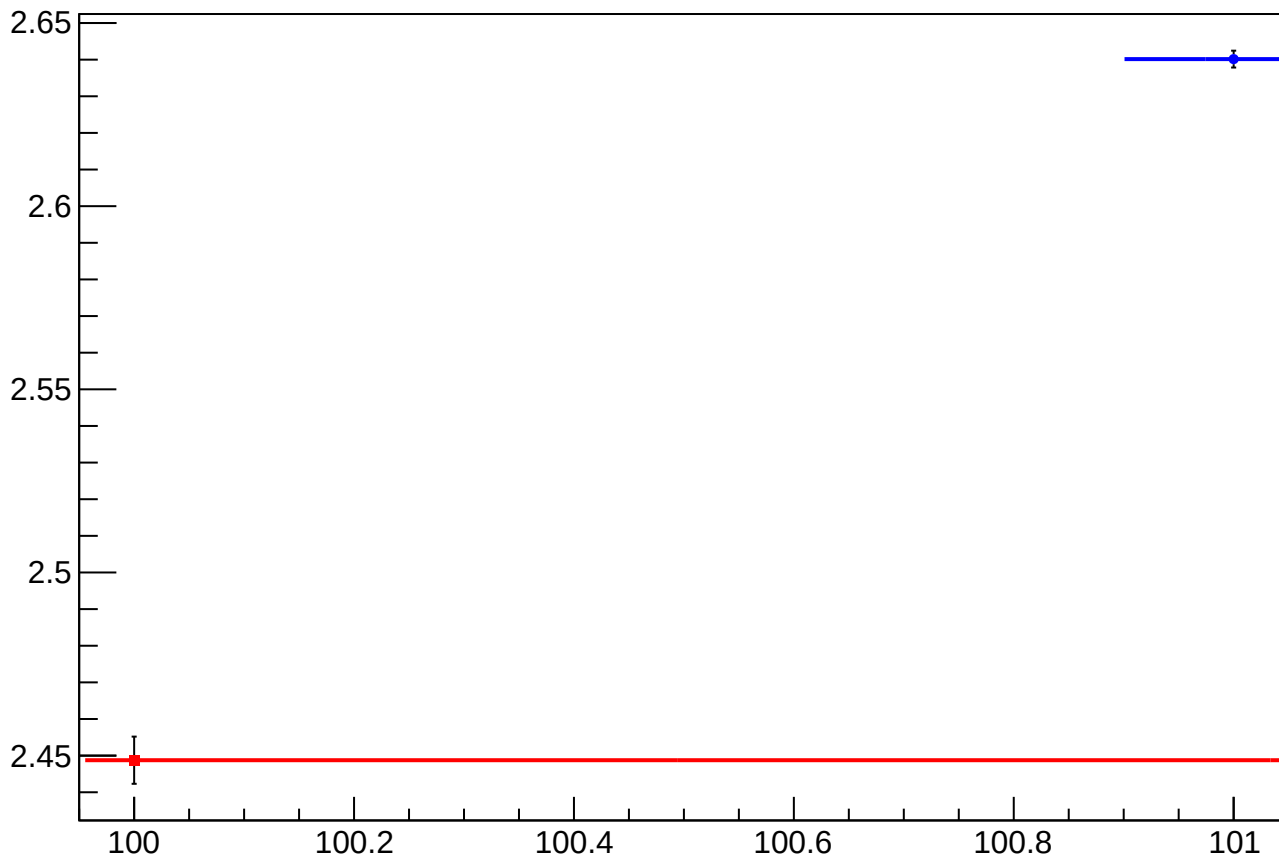
Right: -4.028+/-3.066  $\chi^2/\text{NDF}$ : 1.3/1

In: -2.773+/-3.256  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.028+/-3.066  $\chi^2/\text{NDF}$ : 1.3/1

# asym\_cav4bQ\_rms vs Slug, Sign Corrected



Right In: 2.640+/-0.002  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.449+/-0.006  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 2.618+/-0.002  $\chi^2/\text{NDF}$ : 783.2/1

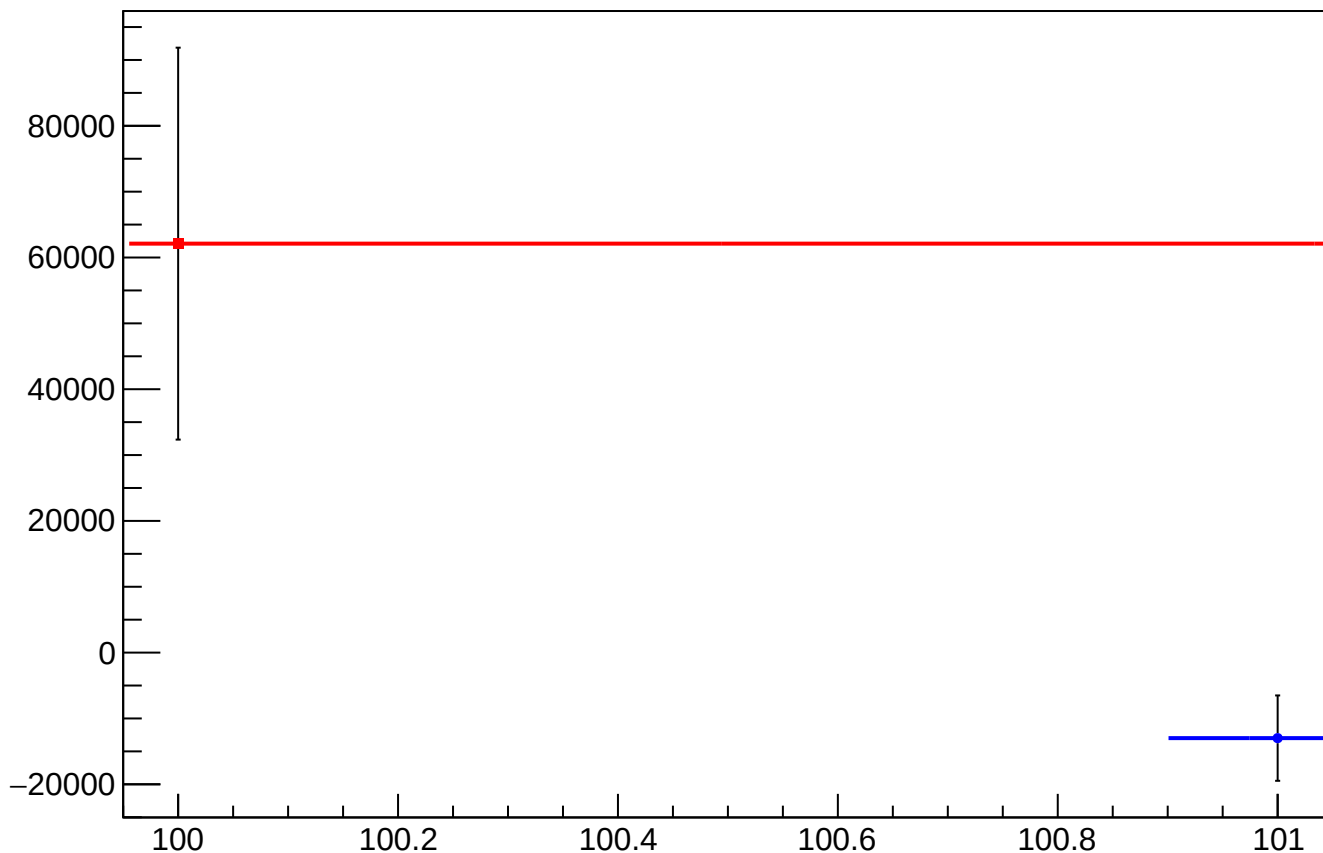
In: 2.640+/-0.002  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.618+/-0.002  $\chi^2/\text{NDF}$ : 783.2/1



# asym\_cav4cQ\_mean vs Slug, Sign Corrected



Right In: -12986.629+/-6481.324  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 62107.618+/-29760.282  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

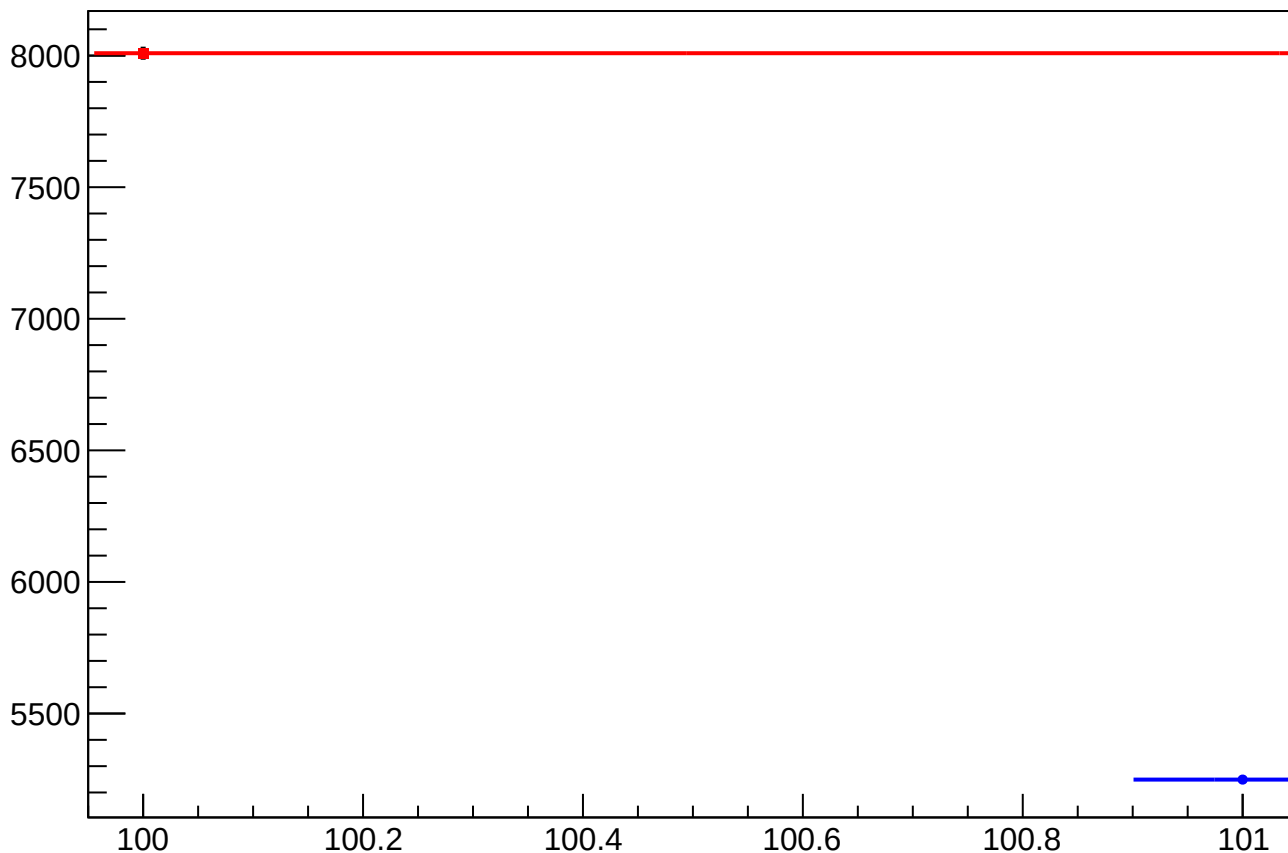
Right: -9586.189+/-6332.880  $\chi^2/\text{NDF}$ : 6.1/1

In: -12986.629+/-6481.324  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9586.189+/-6332.880  $\chi^2/\text{NDF}$ : 6.1/1

# asym\_cav4cQ\_rms vs Slug, Sign Corrected



Right In: 5248.972 $\pm$ 4.583  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8009.115 $\pm$ 21.044  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

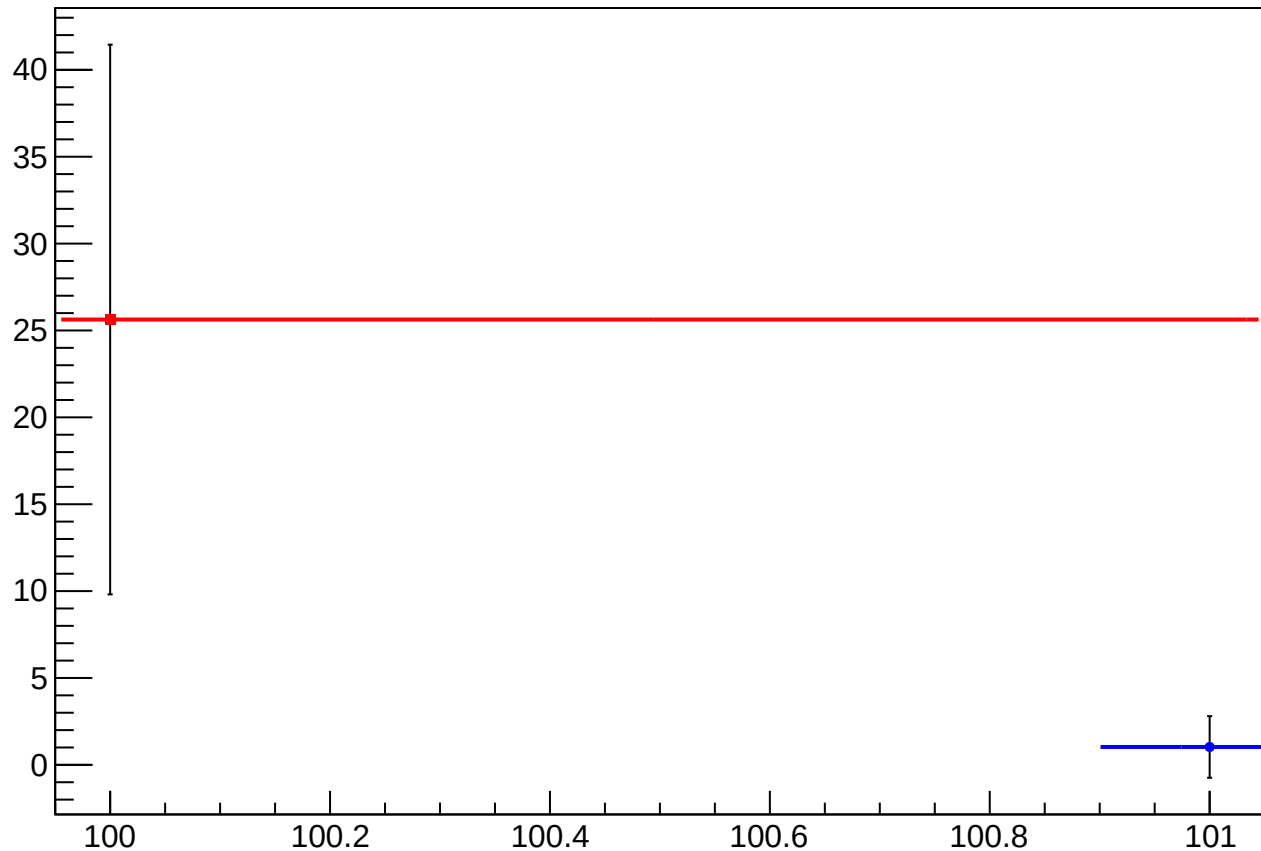
Right: 5373.958 $\pm$ 4.478  $\chi^2$ /NDF: 16424.6/1

In: 5248.972 $\pm$ 4.583  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5373.958 $\pm$ 4.478  $\chi^2$ /NDF: 16424.6/1

# asym\_cav4dQ\_mean vs Slug, Sign Corrected



Right In: 1.029+/-1.774     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 25.630+/-15.819     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

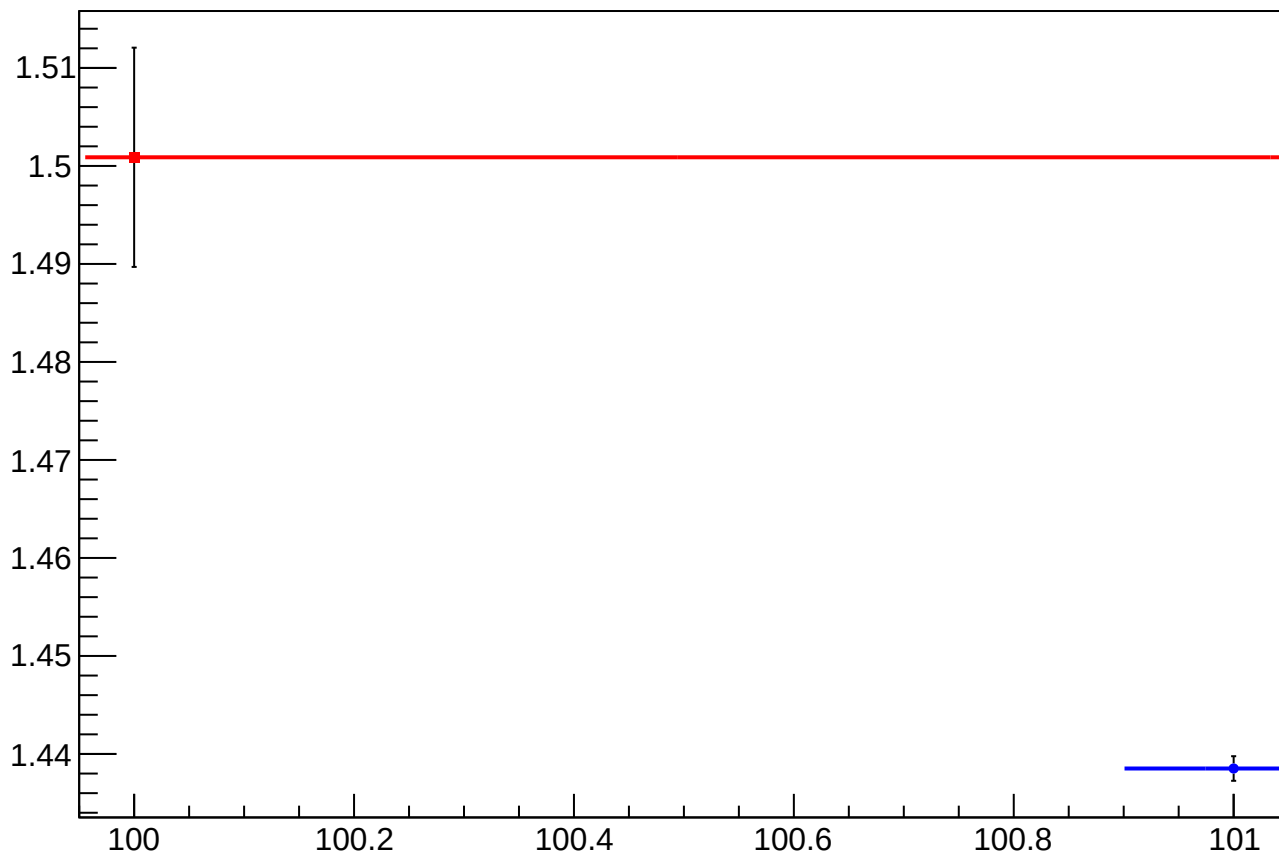
Right: 1.335+/-1.763     $\chi^2$ /NDF: 2.4/1

In: 1.029+/-1.774     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 1.335+/-1.763     $\chi^2$ /NDF: 2.4/1

# asym\_cav4dQ\_rms vs Slug, Sign Corrected



Right In: 1.439+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.501+/-0.011  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

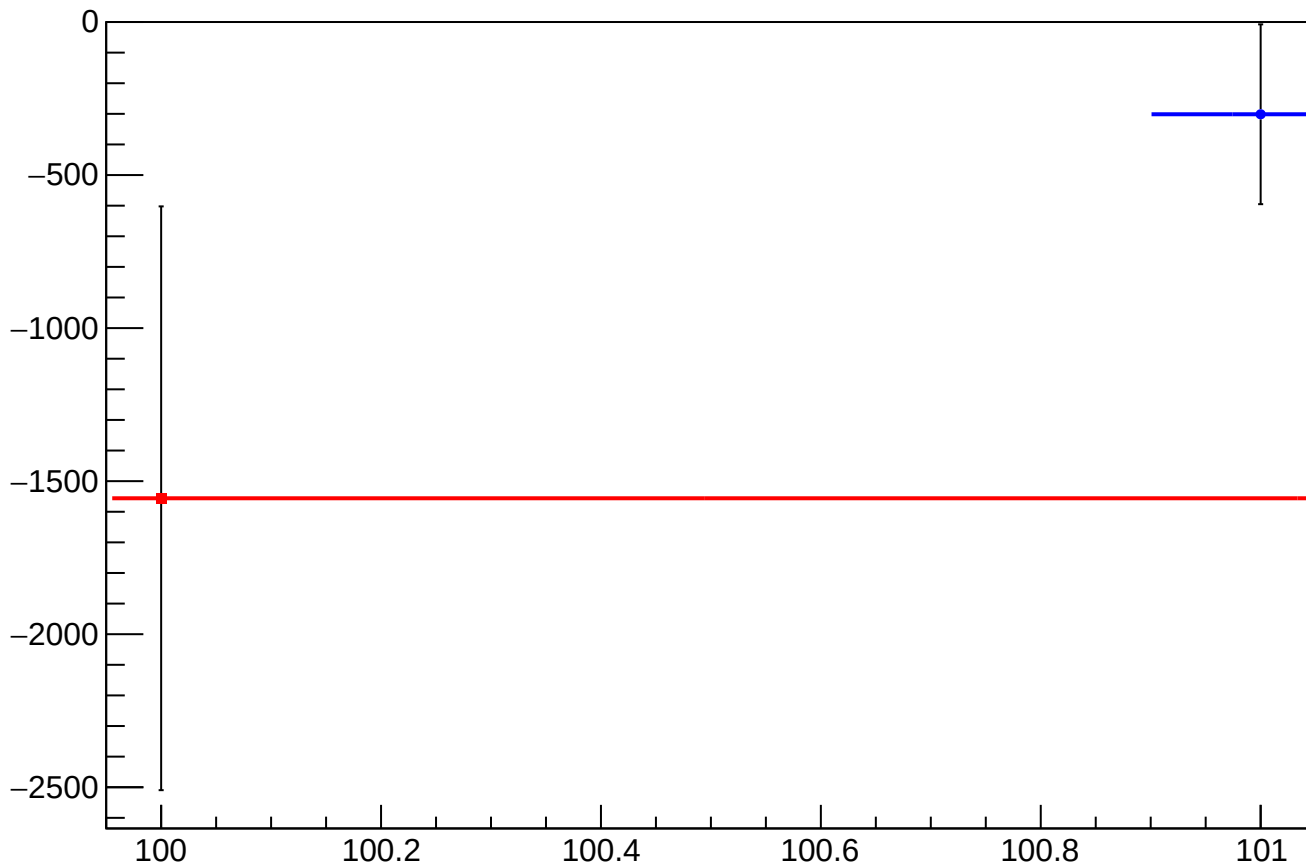
Right: 1.439+/-0.001  $\chi^2/\text{NDF}$ : 30.7/1

In: 1.439+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.439+/-0.001  $\chi^2/\text{NDF}$ : 30.7/1

# asym\_bcm0l02\_mean vs Slug, Sign Corrected



Right In: -301.369+/-293.719  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1555.948+/-953.605  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

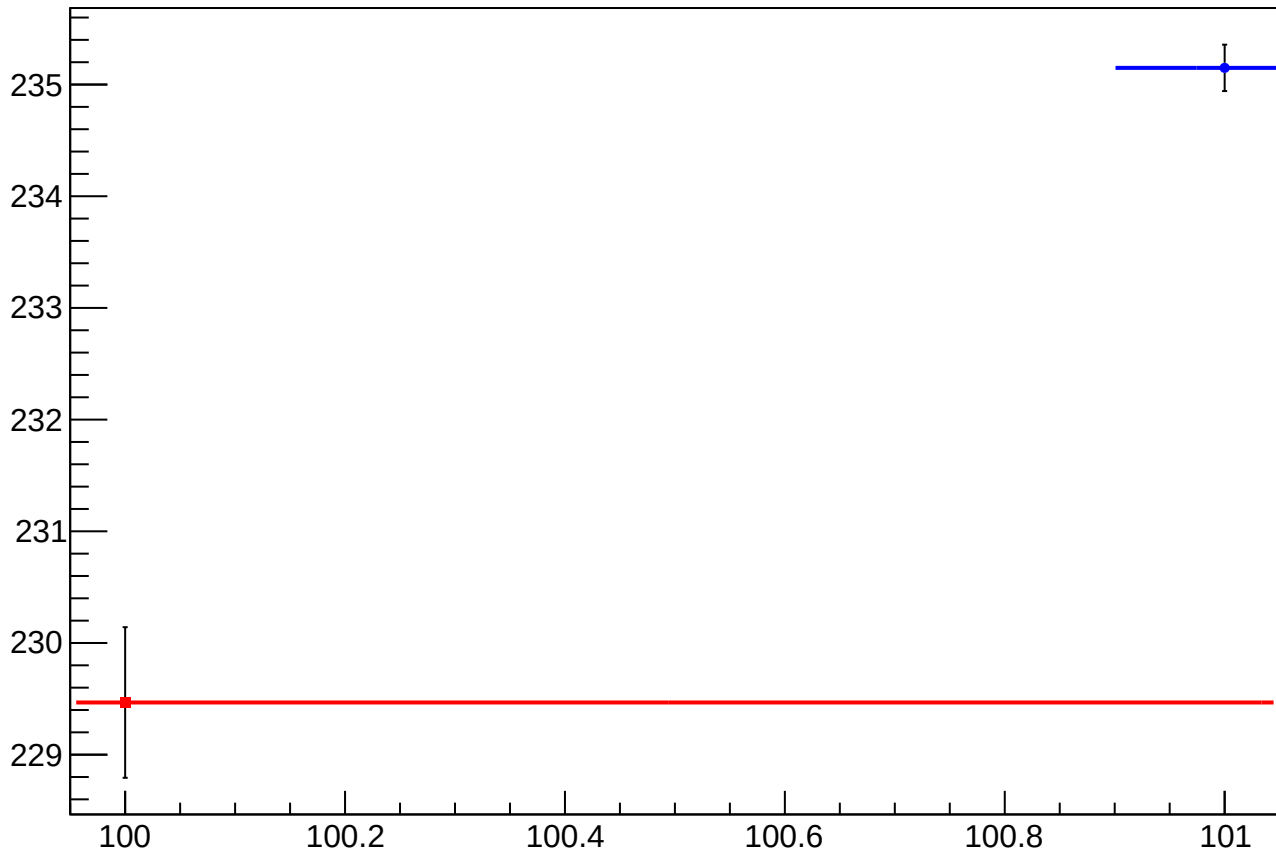
Right: -410.077+/-280.705  $\chi^2/\text{NDF}$ : 1.6/1

In: -301.369+/-293.719  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -410.077+/-280.705  $\chi^2/\text{NDF}$ : 1.6/1

# asym\_bcm0l02\_rms vs Slug, Sign Corrected



Right In: 235.149+/-0.208  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 229.467+/-0.674  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

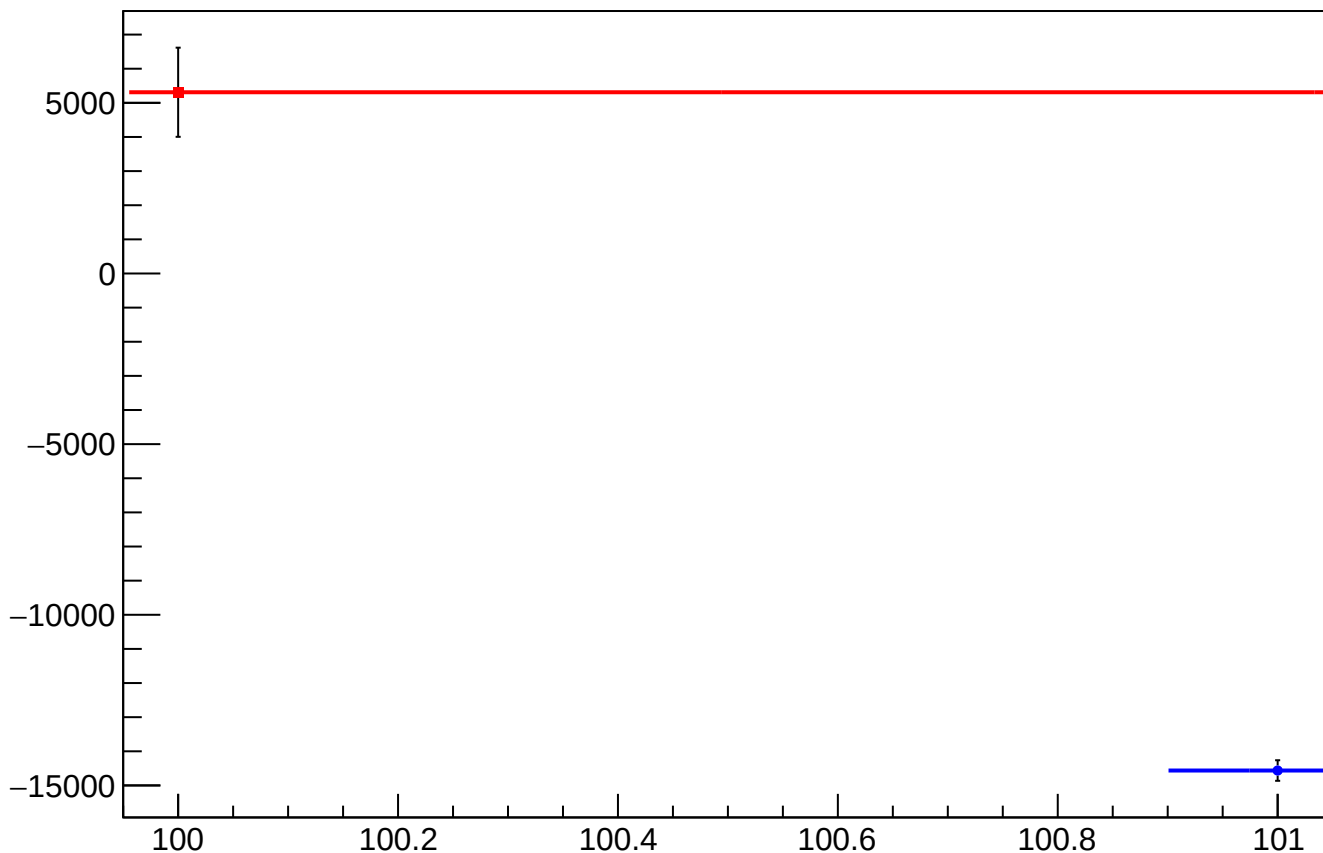
Right: 234.657+/-0.198  $\chi^2/\text{NDF}$ : 64.9/1

In: 235.149+/-0.208  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 234.657+/-0.198  $\chi^2/\text{NDF}$ : 64.9/1

asym\_bpm0i02WS\_mean vs Slug, Sign Corrected



Right In: -14563.057+/-301.132  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5310.435+/-1306.097  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

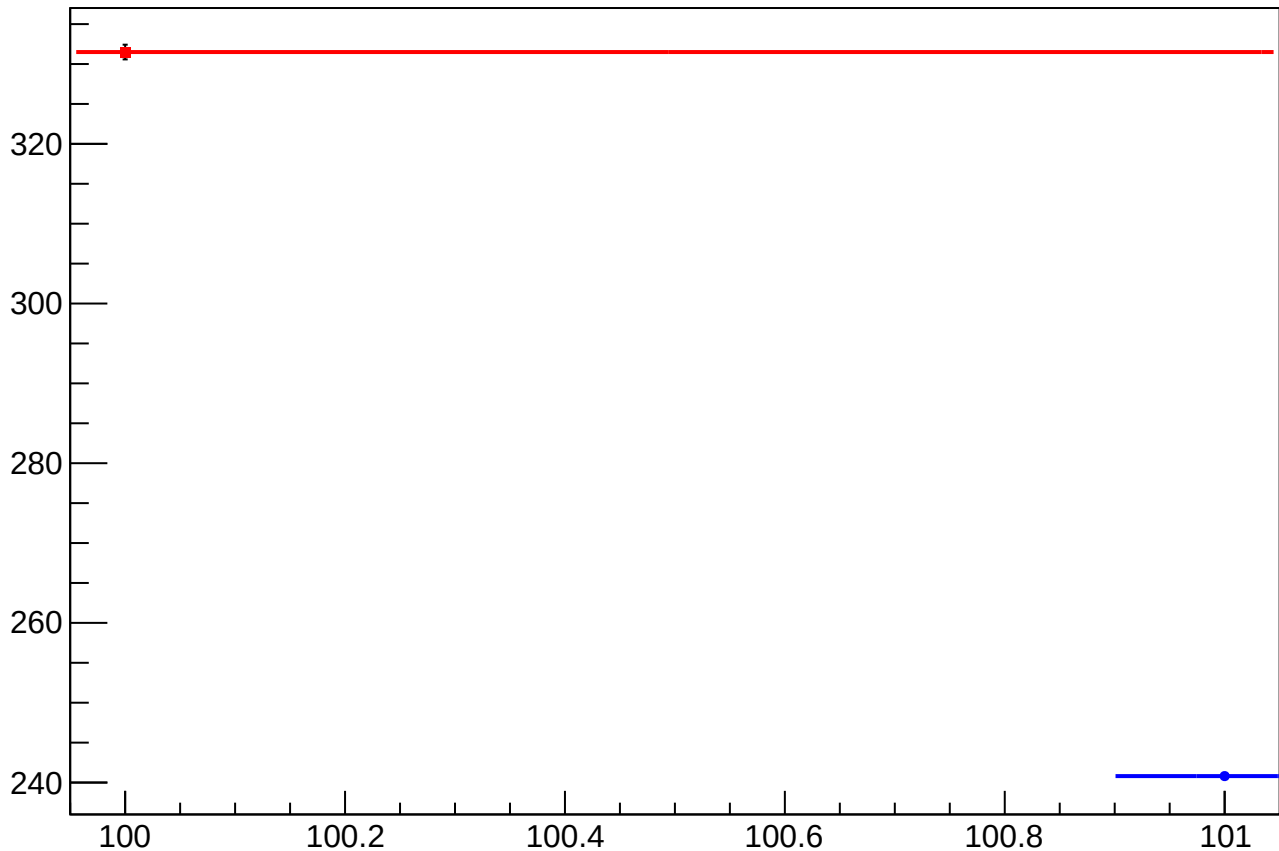
Right: -13559.957+/-293.434  $\chi^2/\text{NDF}$ : 219.8/1

In: -14563.057+/-301.132  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13559.957+/-293.434  $\chi^2/\text{NDF}$ : 219.8/1

# asym\_bpm0i02WS\_rms vs Slug, Sign Corrected



Right In: 240.808 $\pm$ 0.213  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 331.501 $\pm$ 0.924  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 245.385 $\pm$ 0.207  $\chi^2$ /NDF: 9156.6/1

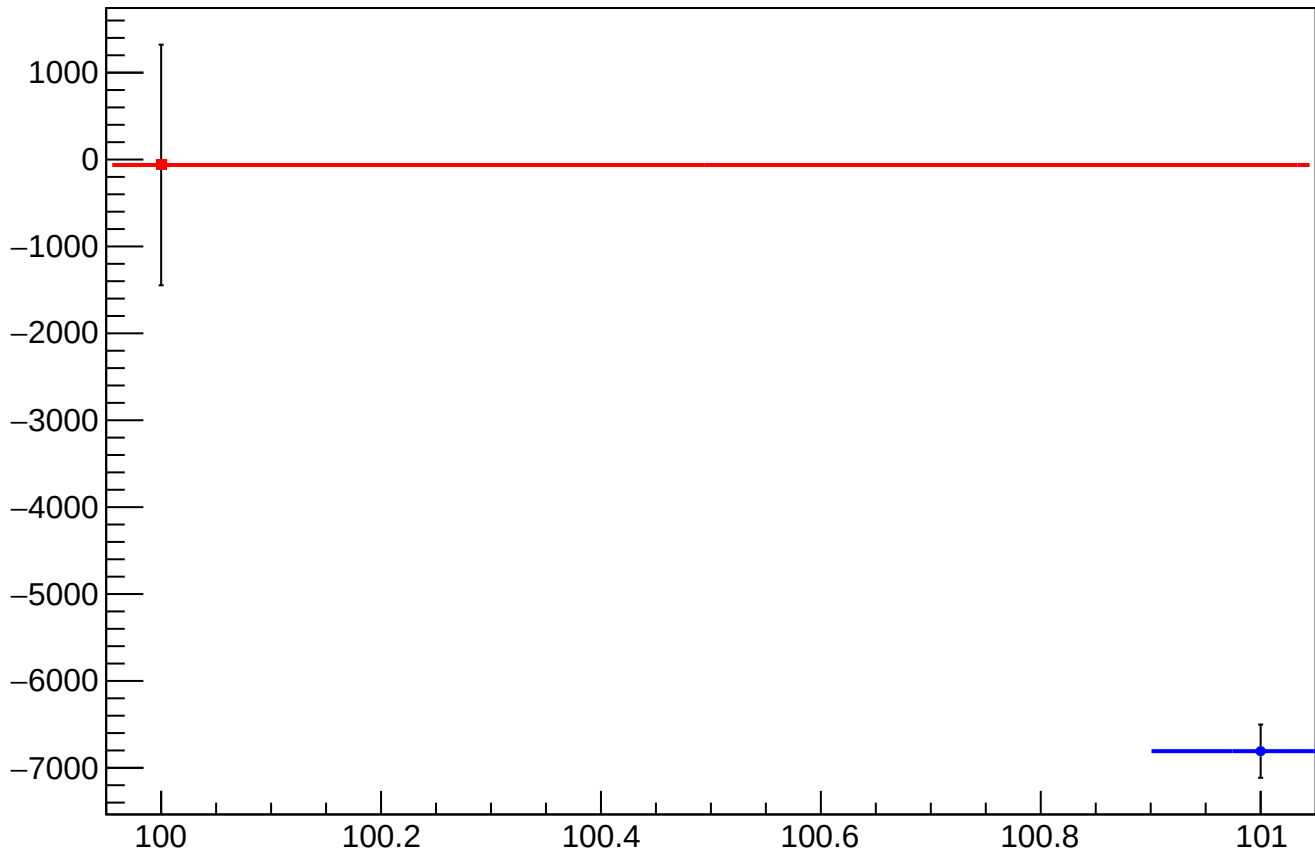
In: 240.808 $\pm$ 0.213  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 245.385 $\pm$ 0.207  $\chi^2$ /NDF: 9156.6/1



# asym\_bpm0i02aWS\_mean vs Slug, Sign Corrected



Right In: -6808.103+/-306.531  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -62.465+/-1384.454  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

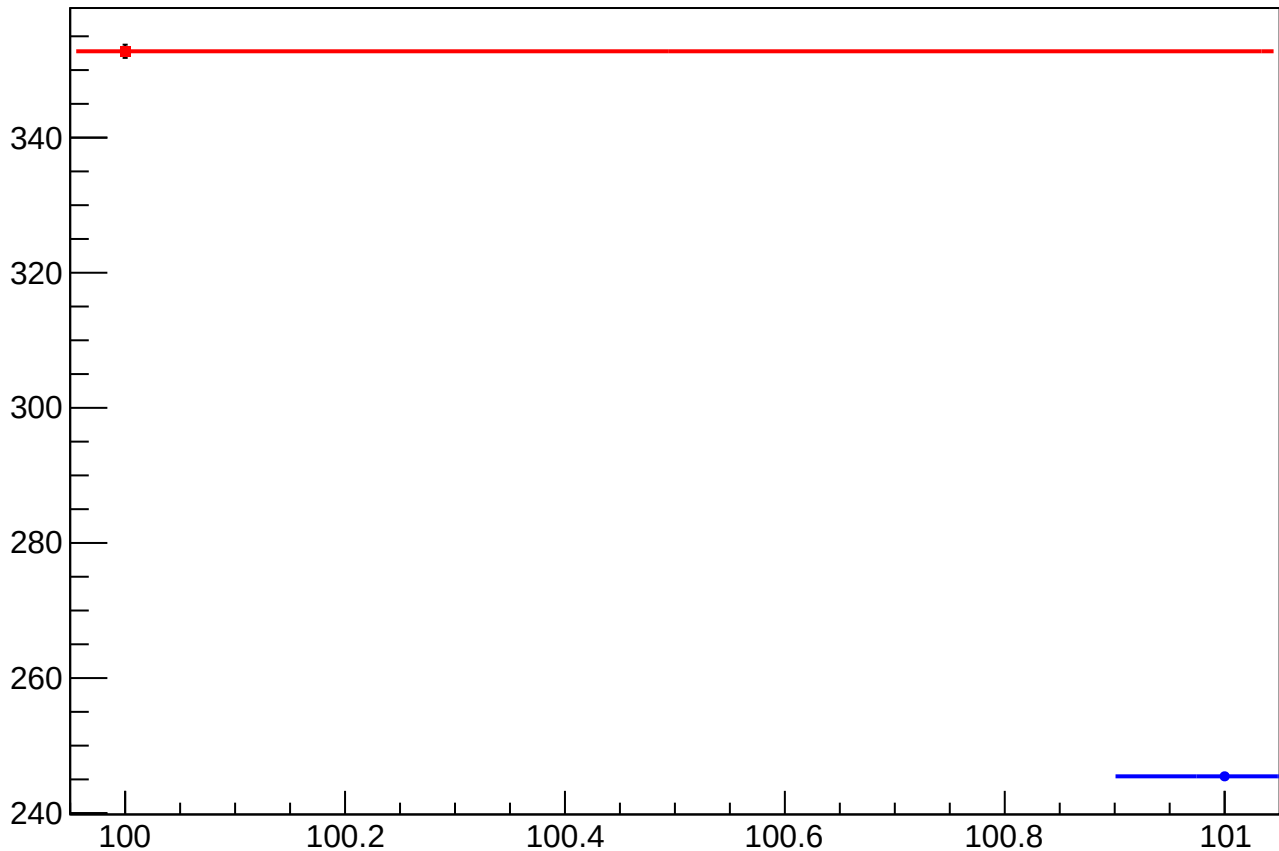
Right: -6492.871+/-299.283  $\chi^2/\text{NDF}$ : 22.6/1

In: -6808.103+/-306.531  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6492.871+/-299.283  $\chi^2/\text{NDF}$ : 22.6/1

# asym\_bpm0i02aWS\_rms vs Slug, Sign Corrected



Right In: 245.454+/-0.217  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 352.781+/-0.979  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

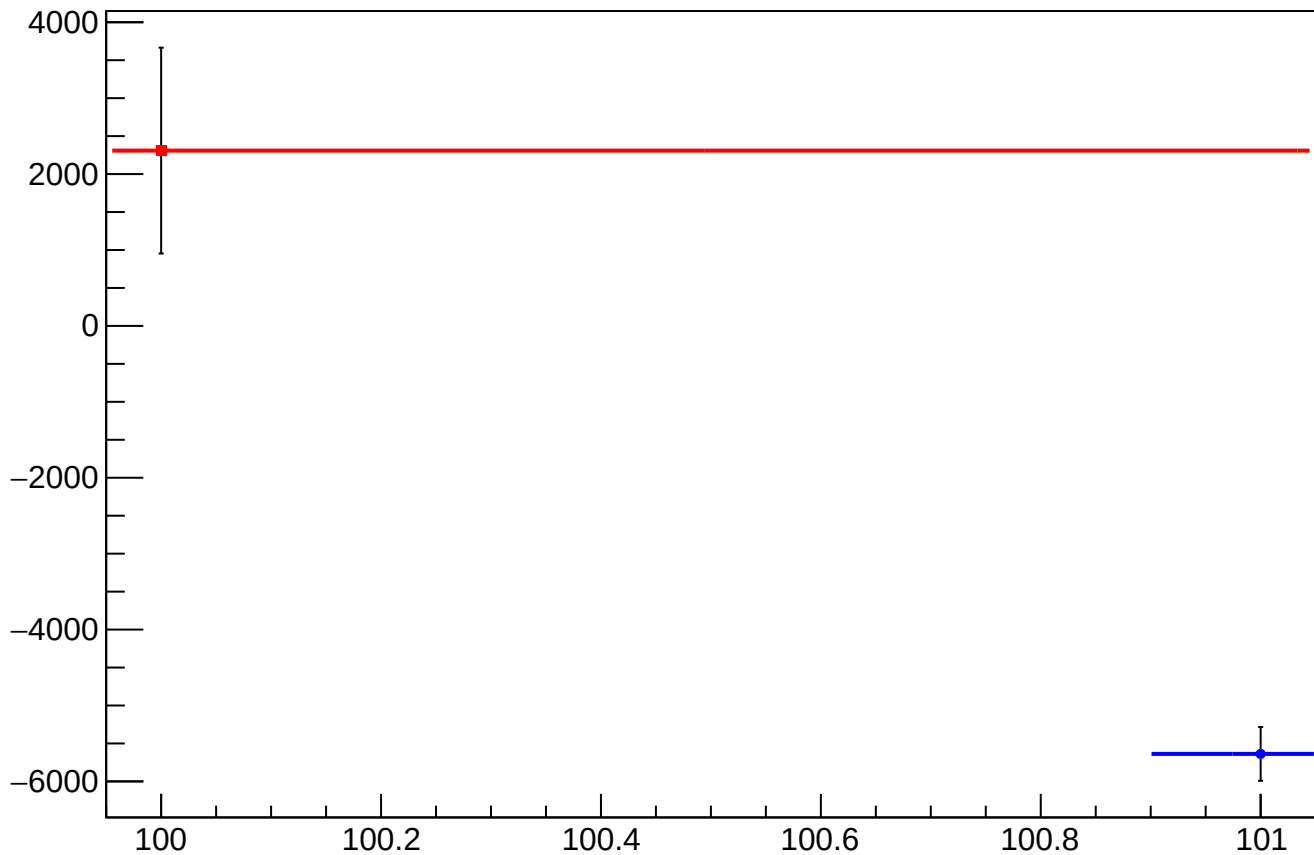
Right: 250.470+/-0.212  $\chi^2/\text{NDF}$ : 11457.9/1

In: 245.454+/-0.217  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 250.470+/-0.212  $\chi^2/\text{NDF}$ : 11457.9/1

# asym\_bpm0i05WS\_mean vs Slug, Sign Corrected



Right In: -5637.662+/-354.270  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2309.308+/-1355.713  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

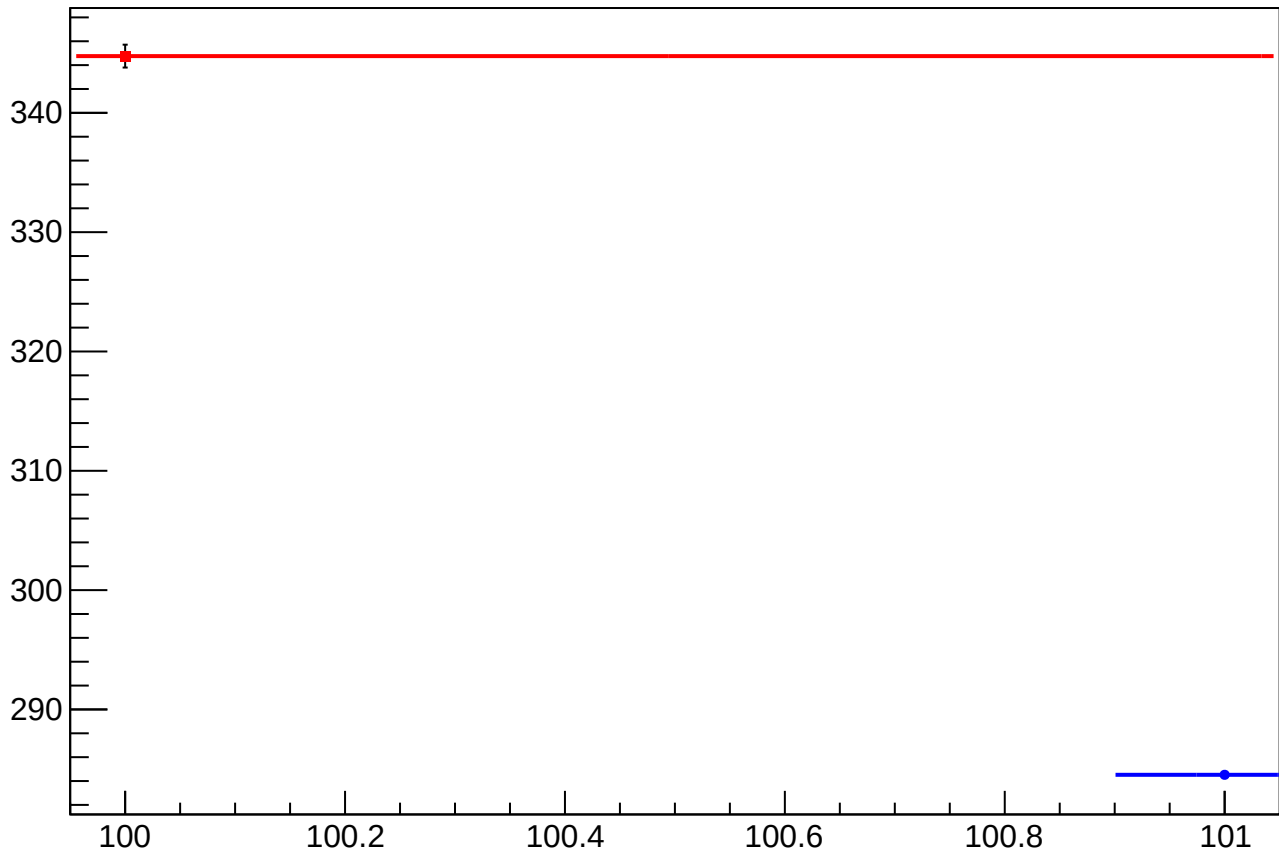
Right: -5129.682+/-342.760  $\chi^2$ /NDF: 32.2/1

In: -5637.662+/-354.270  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -5129.682+/-342.760  $\chi^2$ /NDF: 32.2/1

# asym\_bpm0i05WS\_rms vs Slug, Sign Corrected



Right In: 284.522 $\pm$ 0.251  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 344.755 $\pm$ 0.959  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

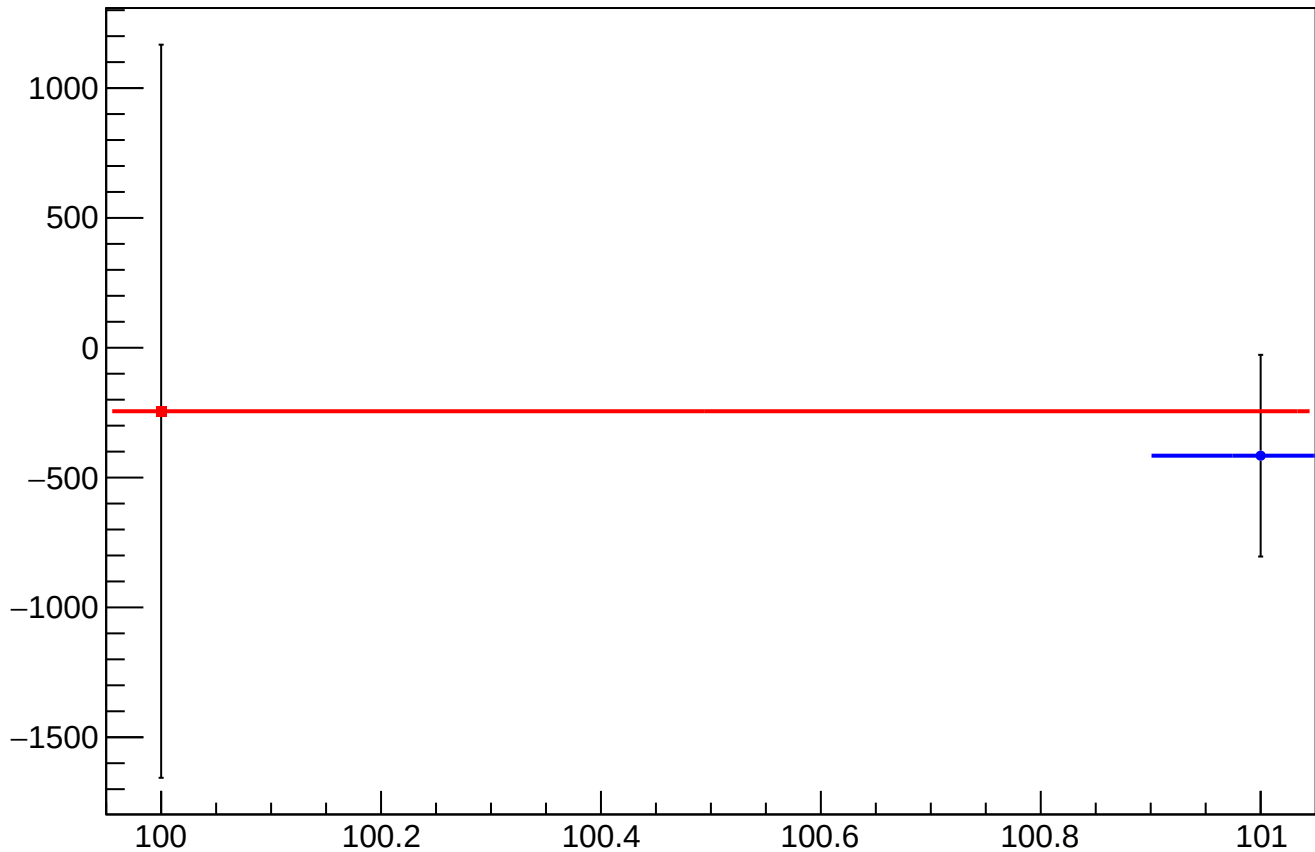
Right: 288.372 $\pm$ 0.242  $\chi^2$ /NDF: 3695.5/1

In: 284.522 $\pm$ 0.251  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 288.372 $\pm$ 0.242  $\chi^2$ /NDF: 3695.5/1

# asym\_bpm0i07WS\_mean vs Slug, Sign Corrected



Right In: -415.703+/-388.400  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -244.491+/-1411.699  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

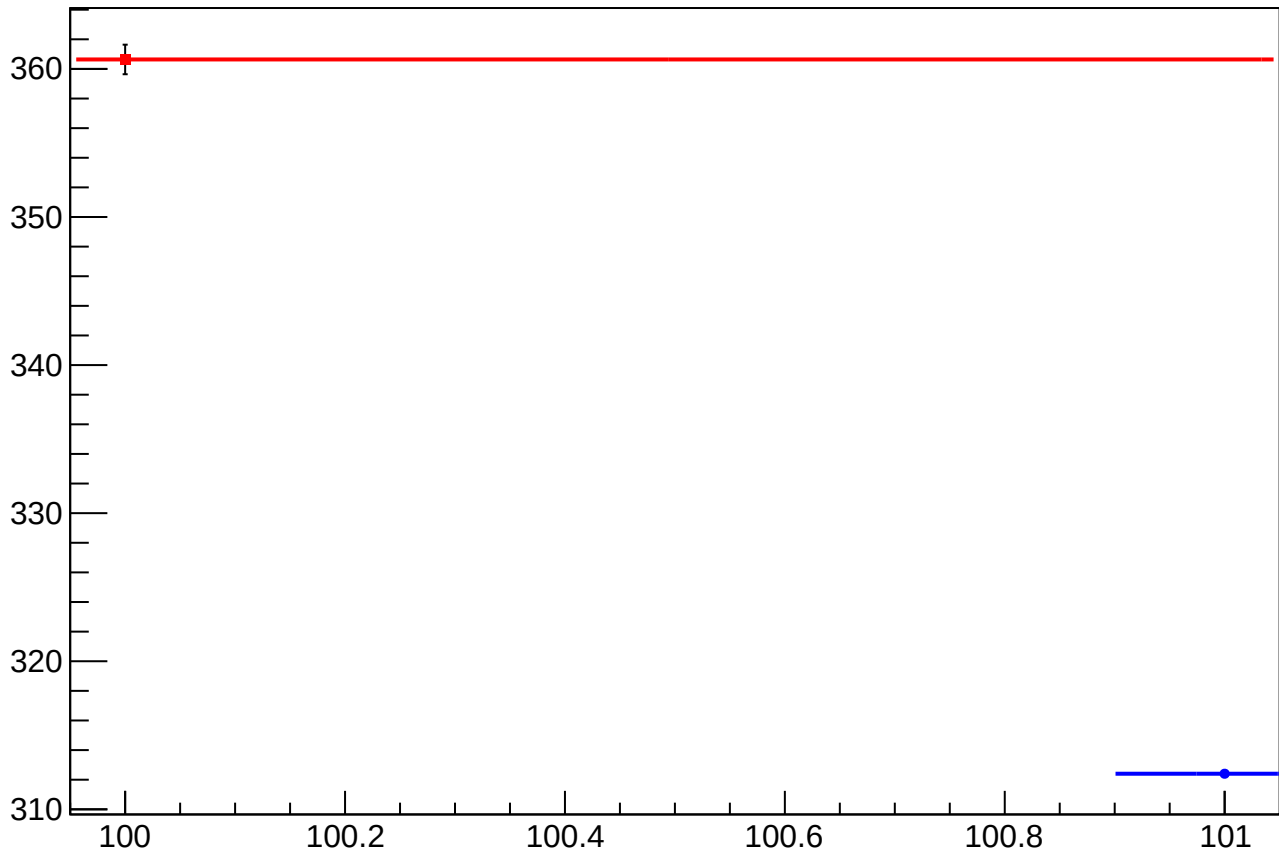
Right: -403.655+/-374.485  $\chi^2/\text{NDF}$ : 0.0/1

In: -415.703+/-388.400  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -403.655+/-374.485  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_bpm0i07WS\_rms vs Slug, Sign Corrected



Right In: 312.404 $\pm$ 0.275  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 360.639 $\pm$ 0.998  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

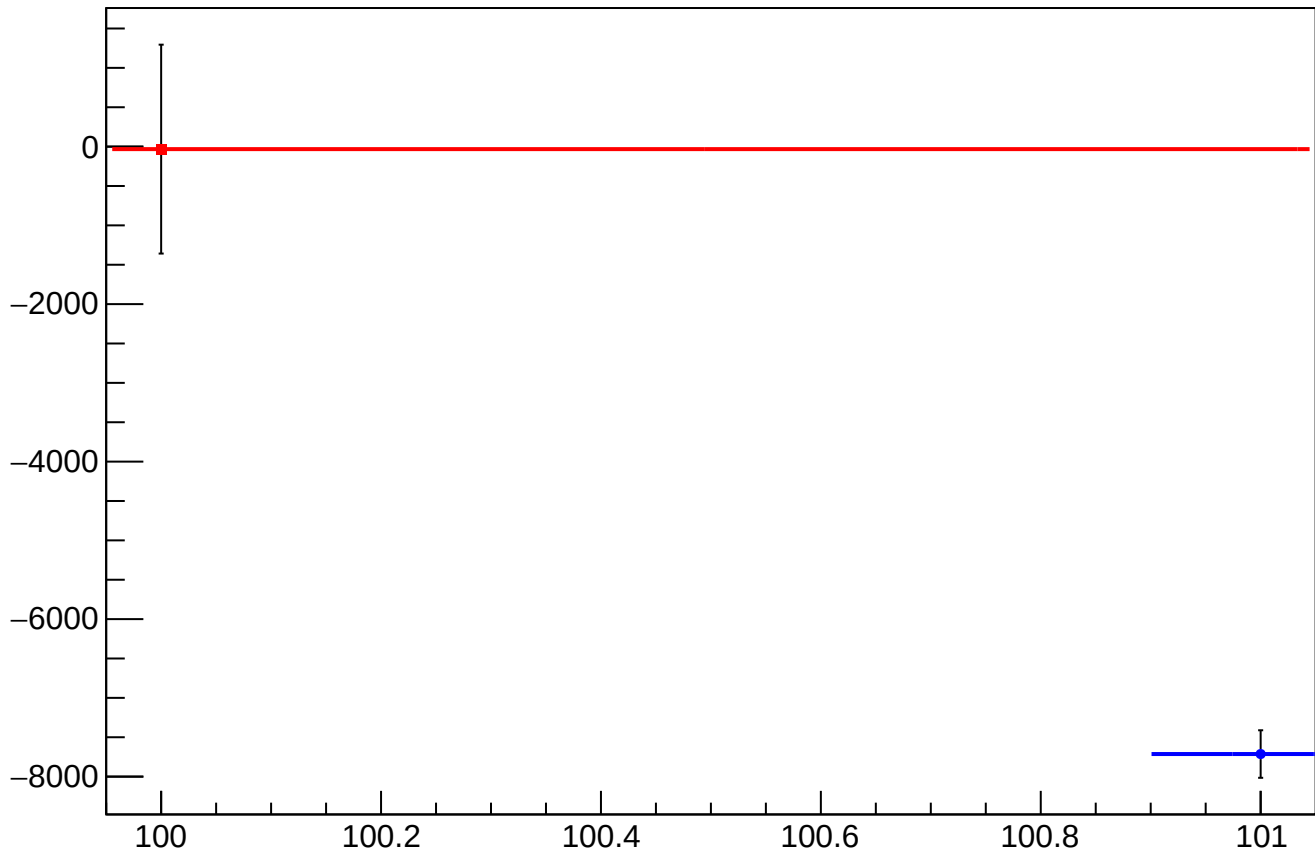
Right: 315.798 $\pm$ 0.265  $\chi^2$ /NDF: 2170.7/1

In: 312.404 $\pm$ 0.275  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 315.798 $\pm$ 0.265  $\chi^2$ /NDF: 2170.7/1

# asym\_bpm1i02WS\_mean vs Slug, Sign Corrected



Right In: -7713.224+/-301.805  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -31.718+/-1326.285  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

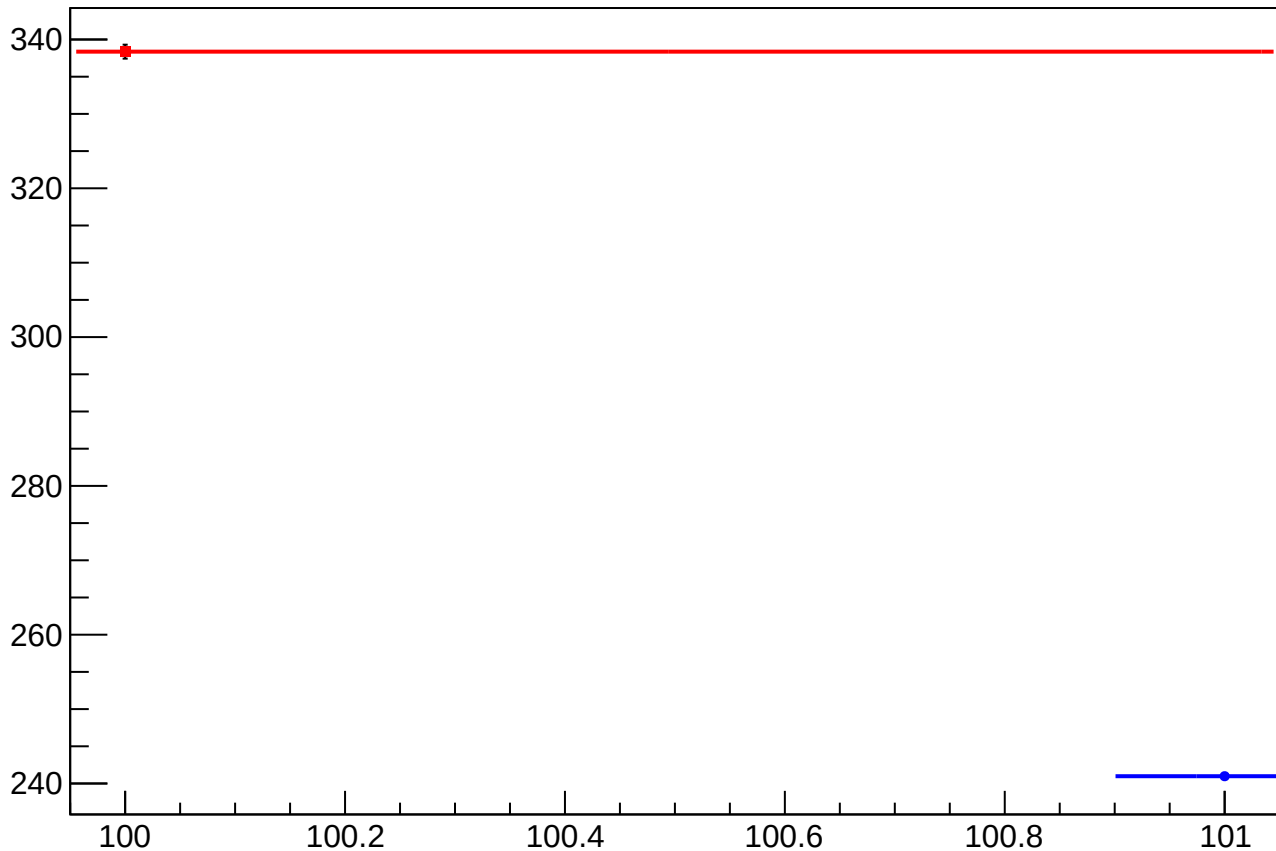
Right: -7335.042+/-294.282  $\chi^2/\text{NDF}$ : 31.9/1

In: -7713.224+/-301.805  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7335.042+/-294.282  $\chi^2/\text{NDF}$ : 31.9/1

# asym\_bpm1i02WS\_rms vs Slug, Sign Corrected



Right In: 240.979+/-0.213  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 338.367+/-0.938  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 245.774+/-0.208  $\chi^2/\text{NDF}$ : 10252.6/1

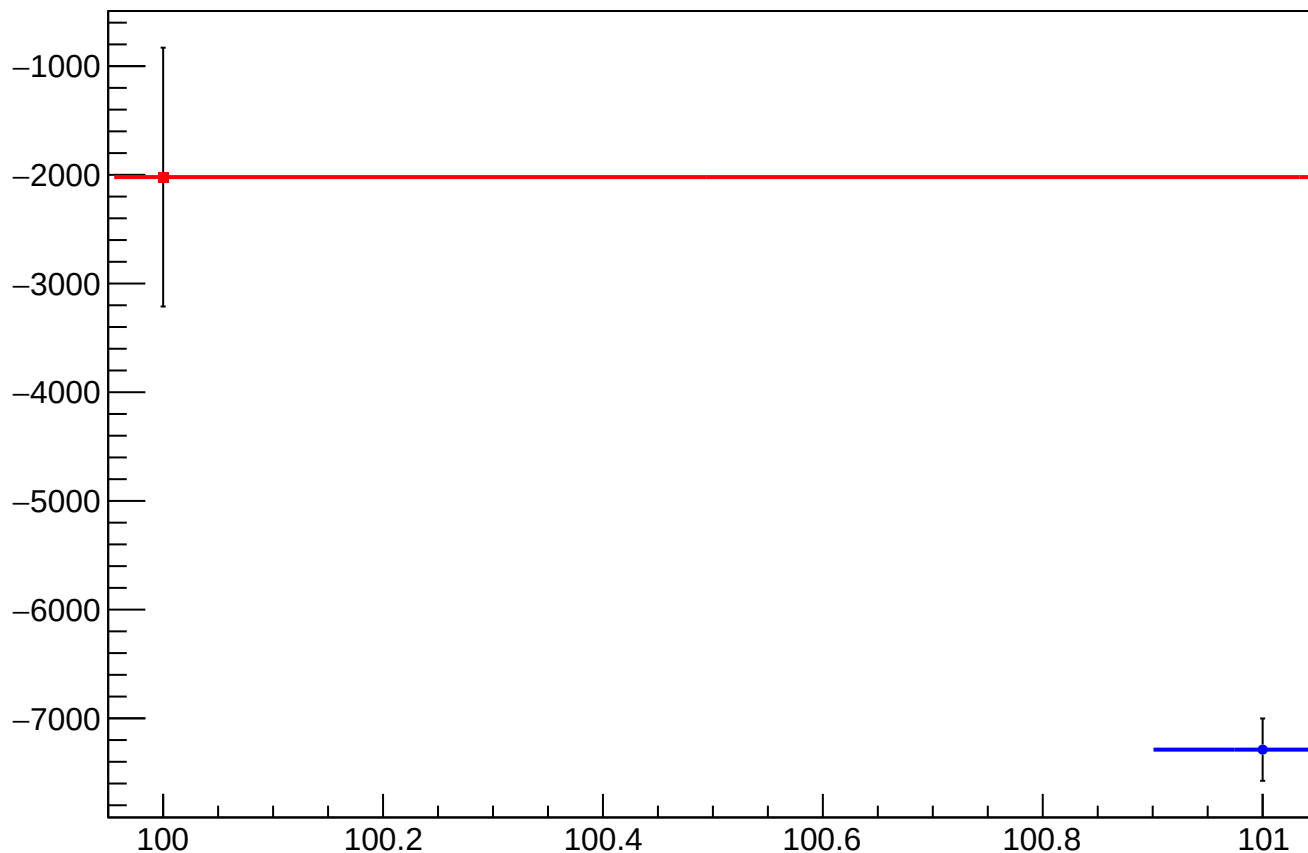
In: 240.979+/-0.213  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 245.774+/-0.208  $\chi^2/\text{NDF}$ : 10252.6/1



# asym\_bpm2i01WS\_mean vs Slug, Sign Corrected



Right In:  $-7288.140 \pm 286.732$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2020.710 \pm 1190.622$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

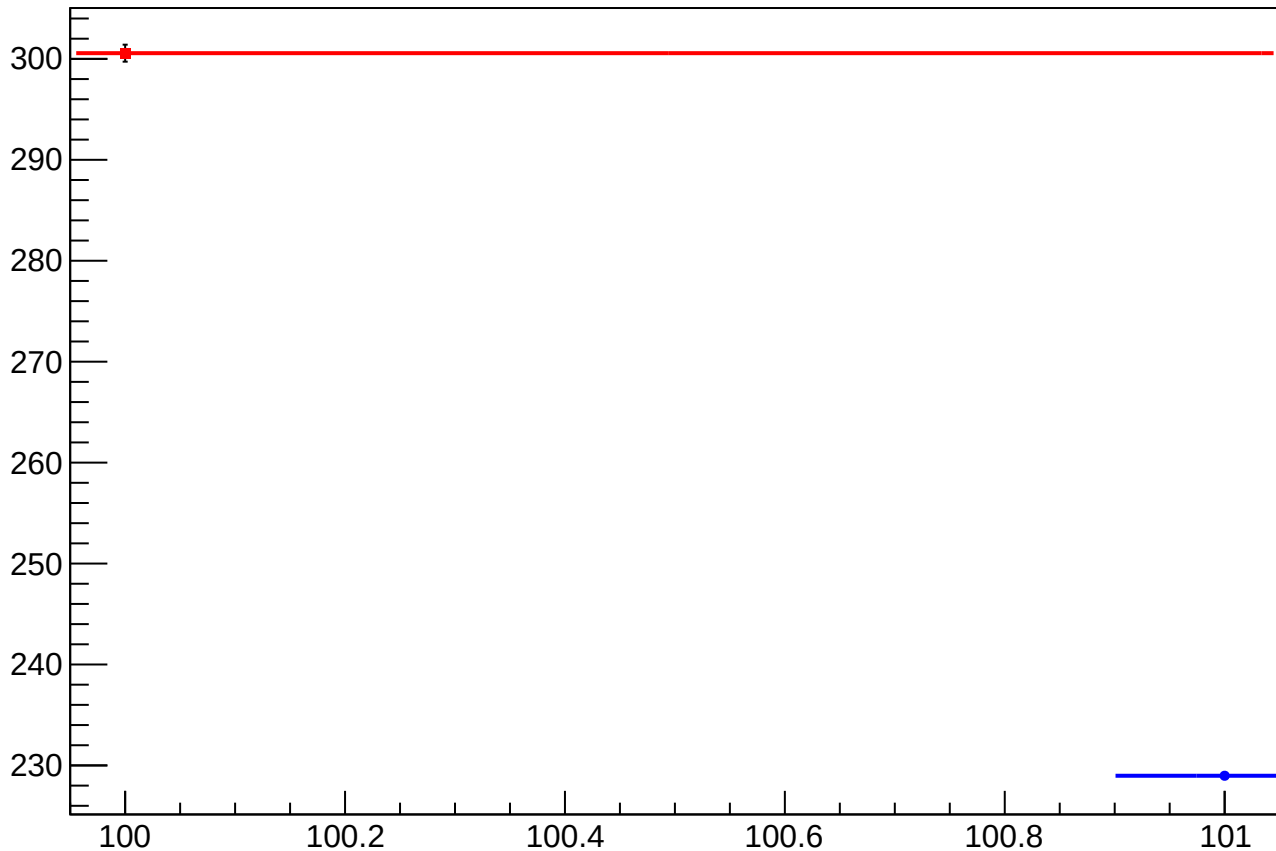
Right:  $-6999.391 \pm 278.763$   $\chi^2/\text{NDF}$ : 18.5/1

In:  $-7288.140 \pm 286.732$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-6999.391 \pm 278.763$   $\chi^2/\text{NDF}$ : 18.5/1

# asym\_bpm2i01WS\_rms vs Slug, Sign Corrected



Right In: 228.977 $\pm$ 0.203  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 300.566 $\pm$ 0.842  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

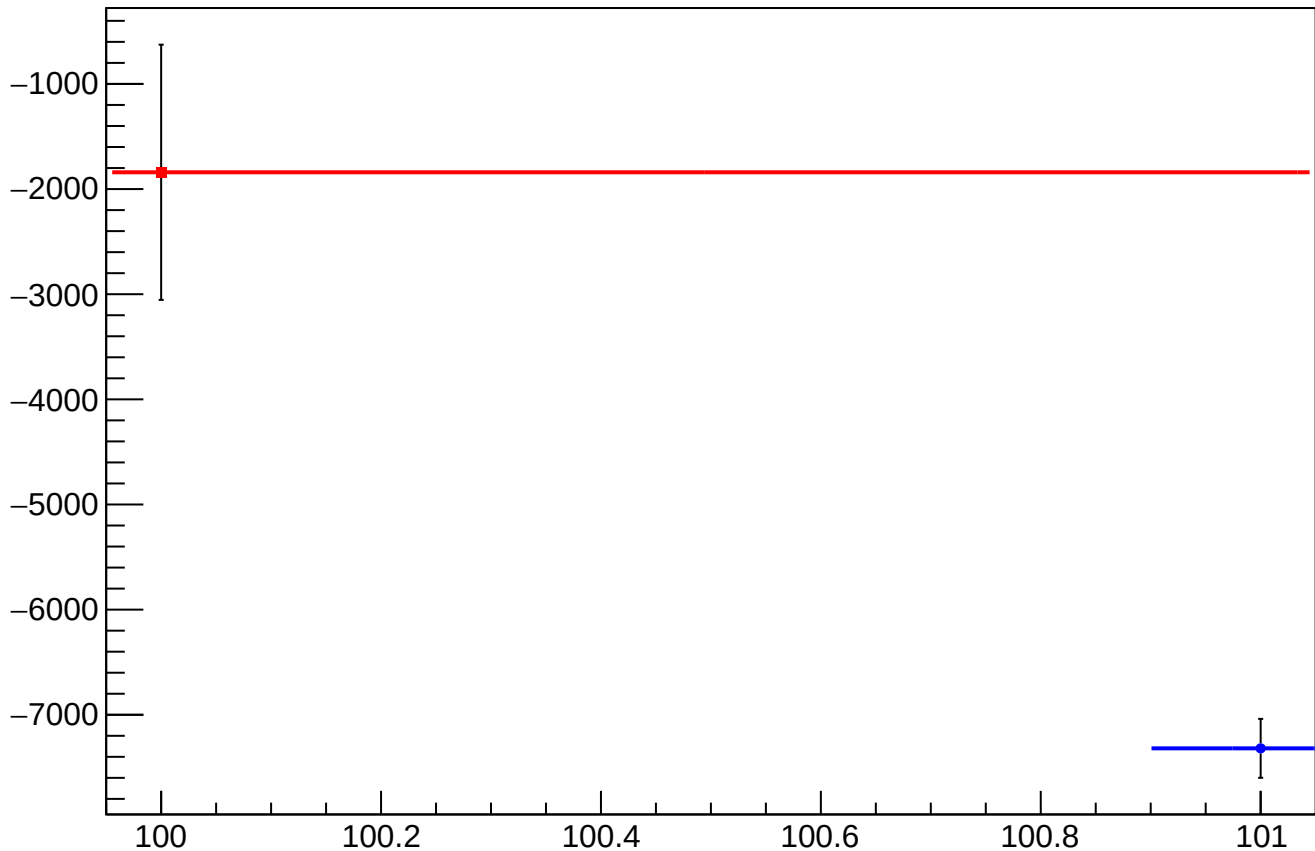
Right: 232.901 $\pm$ 0.197  $\chi^2$ /NDF: 6834.2/1

In: 228.977 $\pm$ 0.203  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 232.901 $\pm$ 0.197  $\chi^2$ /NDF: 6834.2/1

# asym\_bpm2i02WS\_mean vs Slug, Sign Corrected



Right In: -7319.233+/-280.190  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1840.318+/-1213.678  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

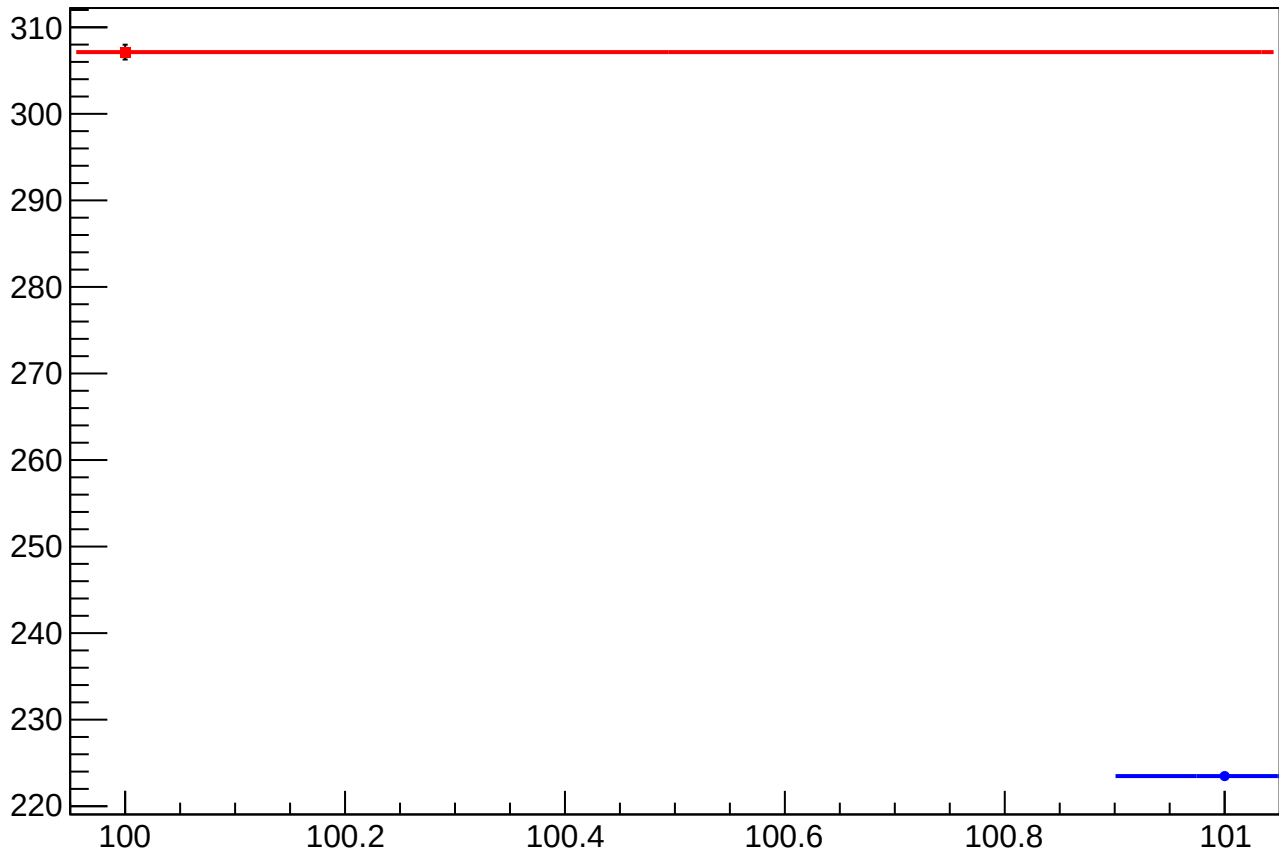
Right: -7042.001+/-273.009  $\chi^2/\text{NDF}$ : 19.3/1

In: -7319.233+/-280.190  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7042.001+/-273.009  $\chi^2/\text{NDF}$ : 19.3/1

# asym\_bpm2i02WS\_rms vs Slug, Sign Corrected



Right In: 223.481 $\pm$ 0.198  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 307.134 $\pm$ 0.858  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

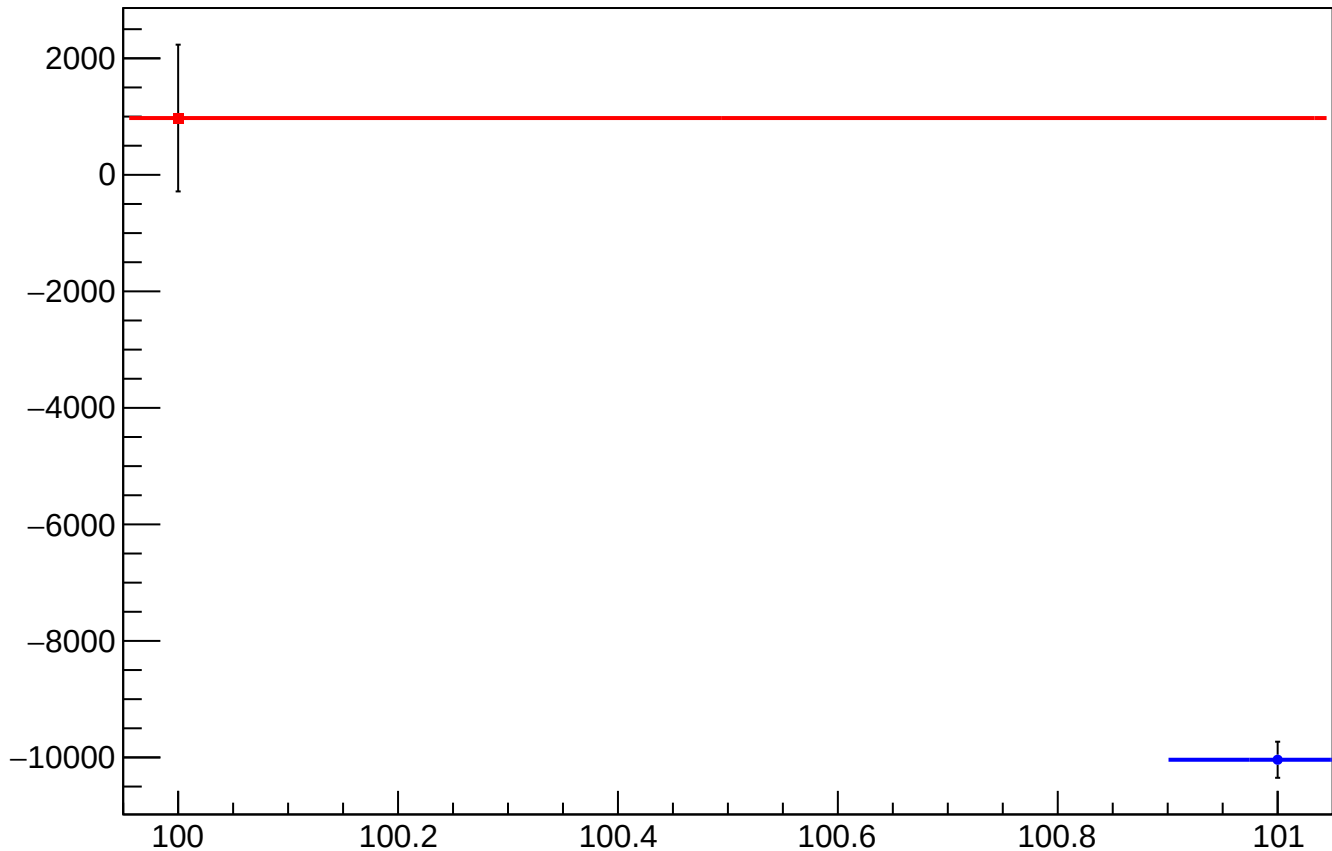
Right: 227.714 $\pm$ 0.193  $\chi^2$ /NDF: 9020.5/1

In: 223.481 $\pm$ 0.198  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 227.714 $\pm$ 0.193  $\chi^2$ /NDF: 9020.5/1

# asym\_bpm0i01WS\_mean vs Slug, Sign Corrected



Right In: -10039.916±/309.768  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 974.846±/-1259.514  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

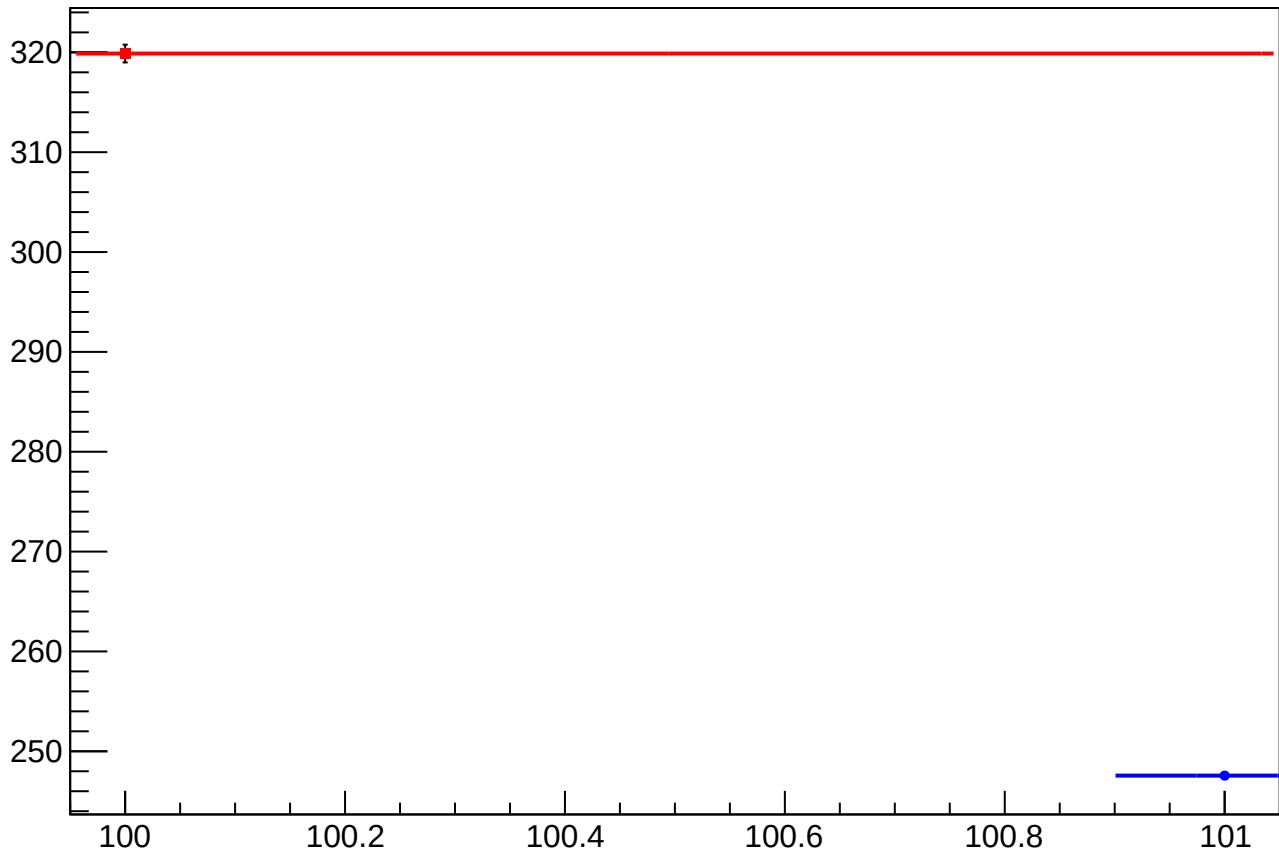
Right: -9411.657±/-300.805  $\chi^2$ /NDF: 72.1/1

In: -10039.916±/-309.768  $\chi^2$ /NDF:0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

All: -9411.657±/-300.805  $\chi^2$ /NDF: 72.1/1

# asym\_bpm0i01WS\_rms vs Slug, Sign Corrected



Right In: 247.564 $\pm$ 0.219  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 319.878 $\pm$ 0.891  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

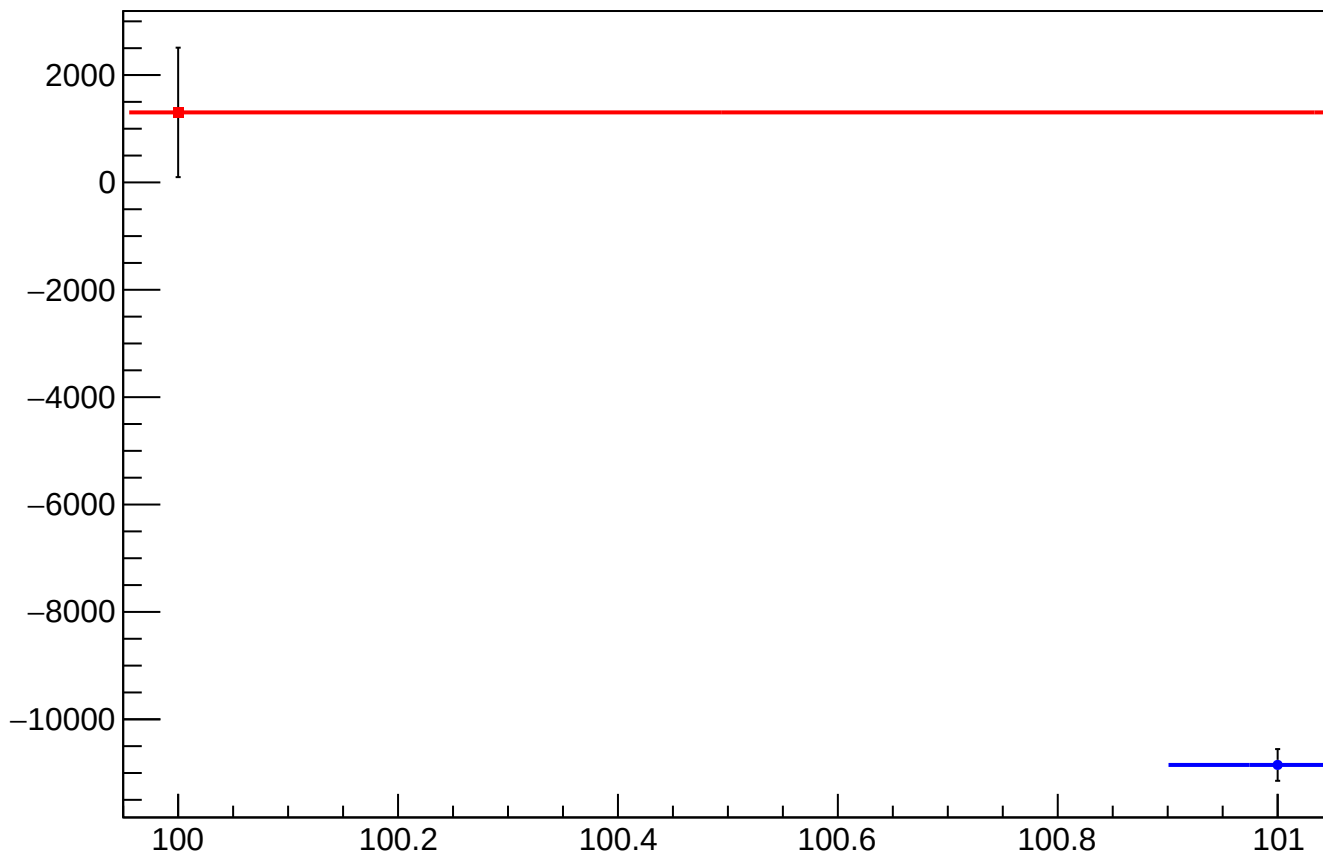
Right: 251.689 $\pm$ 0.213  $\chi^2$ /NDF: 6216.7/1

In: 247.564 $\pm$ 0.219  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 251.689 $\pm$ 0.213  $\chi^2$ /NDF: 6216.7/1

# asym\_bpm0i01aWS\_mean vs Slug, Sign Corrected



Right In: -10849.920+/-295.437  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1303.848+/-1205.611  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

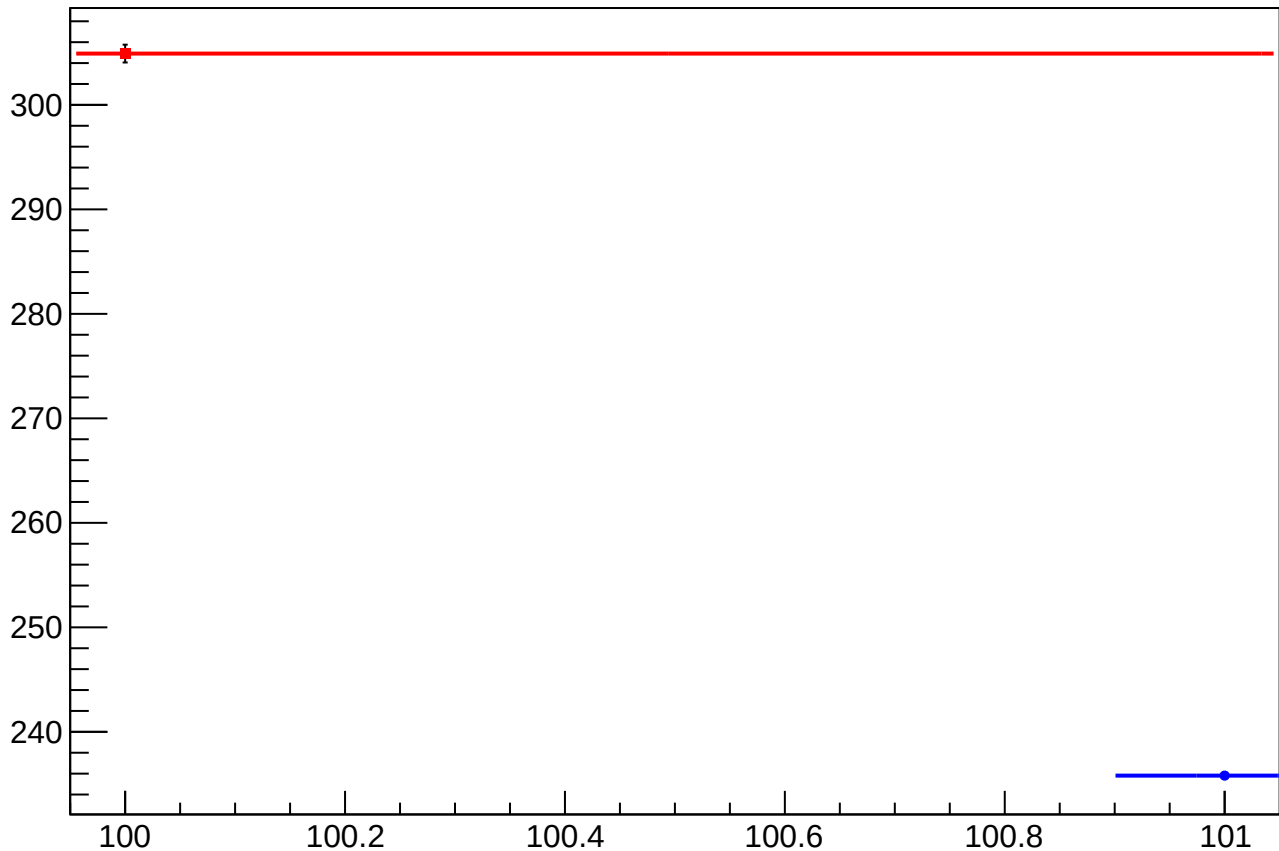
Right: -10161.429+/-286.947  $\chi^2$ /NDF: 95.9/1

In: -10849.920+/-295.437  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -10161.429+/-286.947  $\chi^2$ /NDF: 95.9/1

# asym\_bpm0i01aWS\_rms vs Slug, Sign Corrected



Right In: 235.810 $\pm$ 0.209  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 304.909 $\pm$ 0.852  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 239.725 $\pm$ 0.203  $\chi^2$ /NDF: 6197.7/1

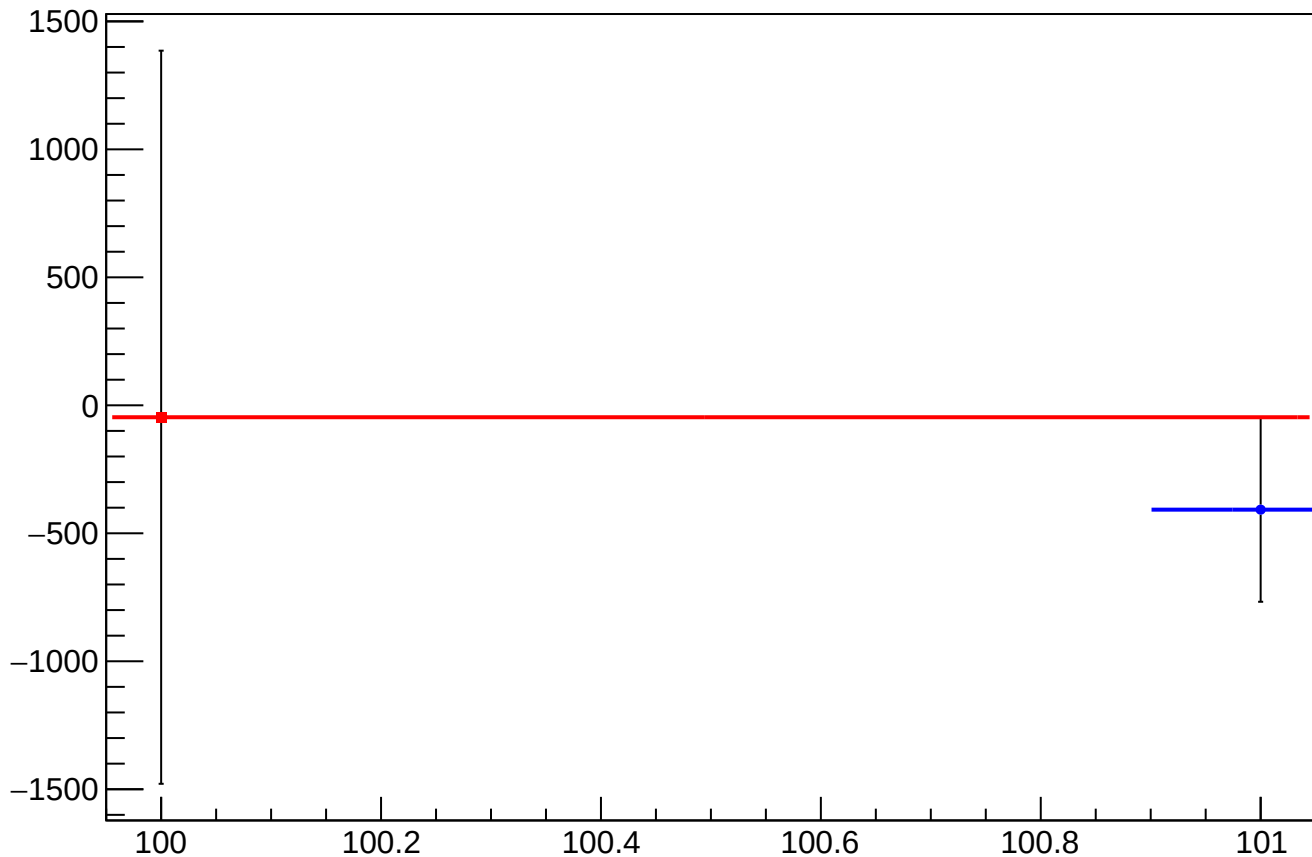
In: 235.810 $\pm$ 0.209  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 239.725 $\pm$ 0.203  $\chi^2$ /NDF: 6197.7/1



# asym\_bpm0l01WS\_mean vs Slug, Sign Corrected



Right In: -407.655+/-359.903  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -46.592+/-1432.116  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

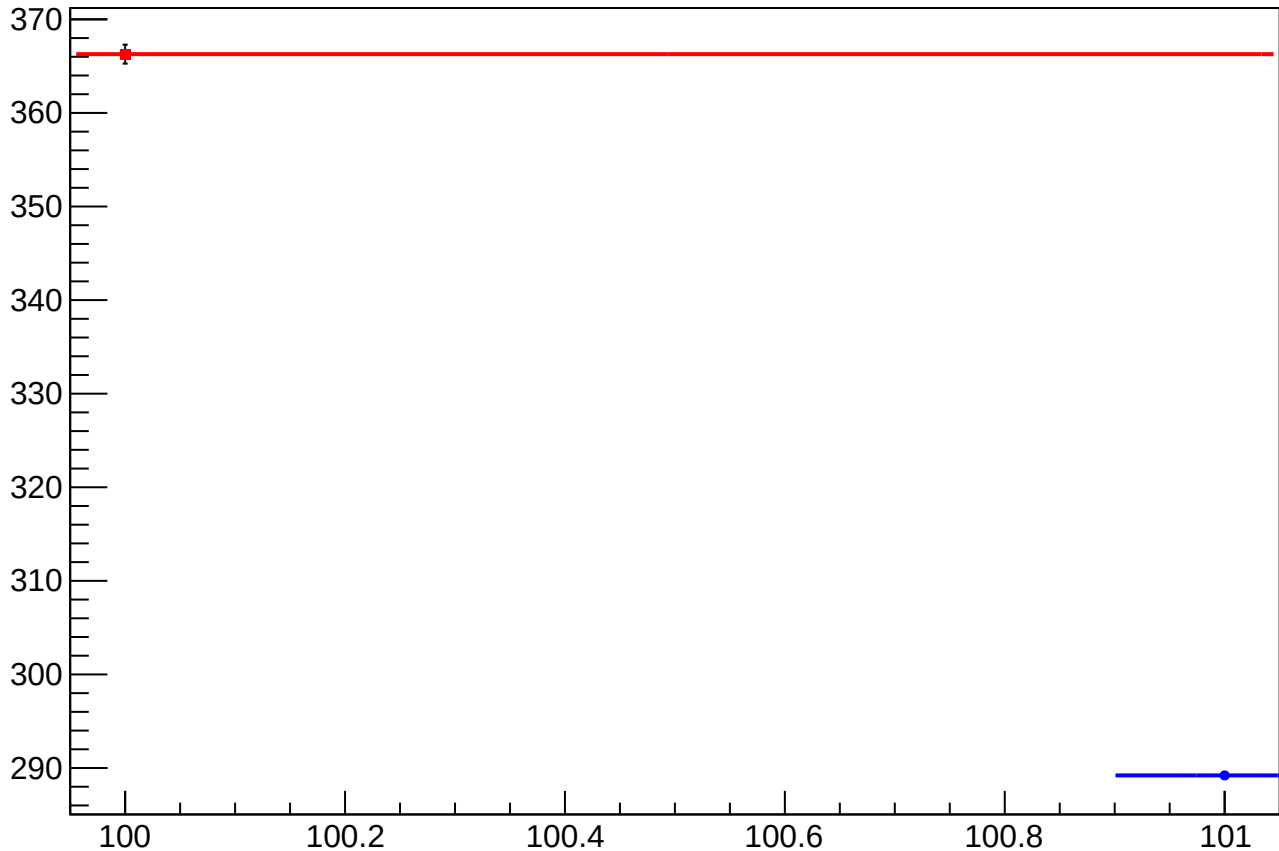
Right: -386.206+/-349.049  $\chi^2$ /NDF: 0.1/1

In: -407.655+/-359.903  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -386.206+/-349.049  $\chi^2$ /NDF: 0.1/1

# asym\_bpm0l01WS\_rms vs Slug, Sign Corrected



Right In: 289.209 $\pm$ 0.254  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 366.281 $\pm$ 1.013  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

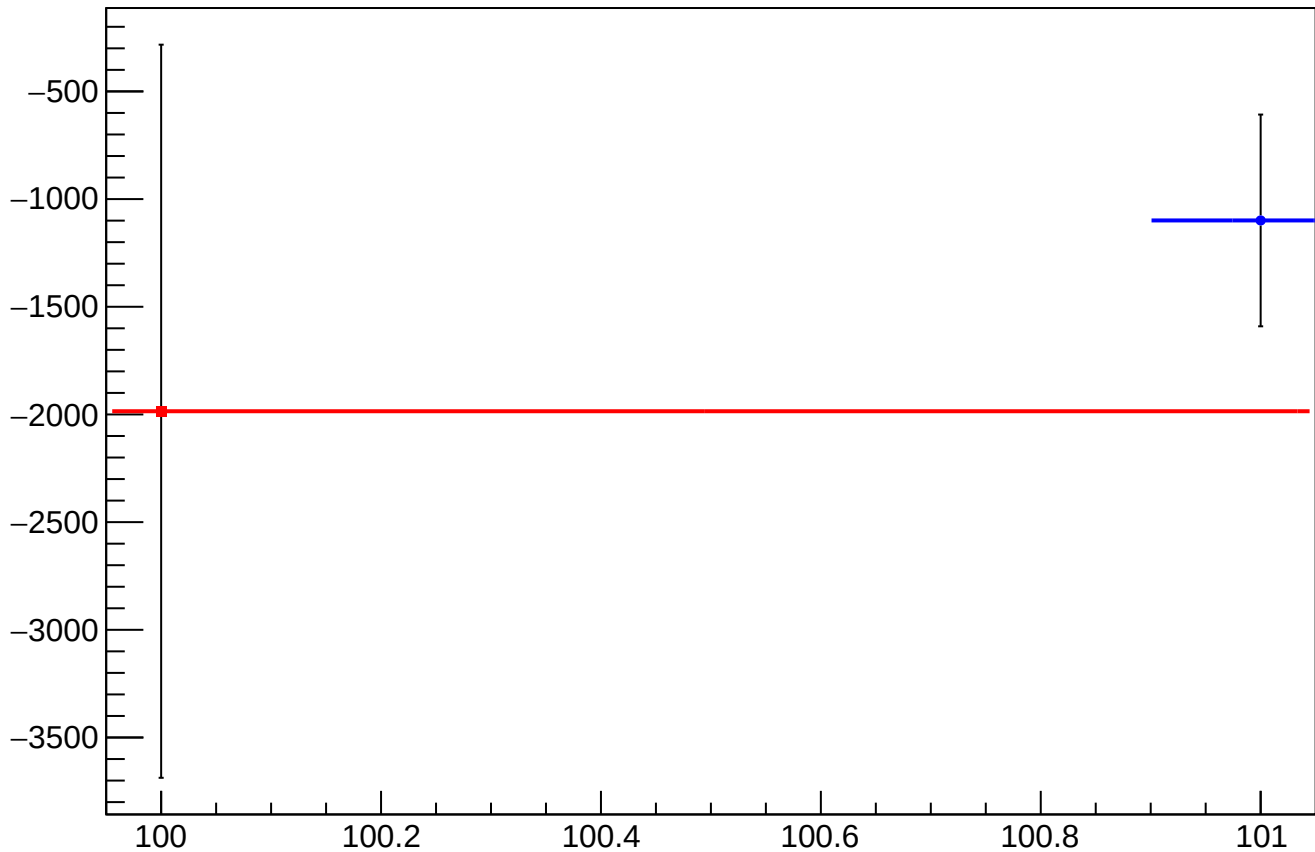
Right: 293.787 $\pm$ 0.247  $\chi^2$ /NDF: 5448.4/1

In: 289.209 $\pm$ 0.254  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 293.787 $\pm$ 0.247  $\chi^2$ /NDF: 5448.4/1

# asym\_bpm0l02WS\_mean vs Slug, Sign Corrected



Right In: -1099.138+/-491.618  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1985.054+/-1702.060  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

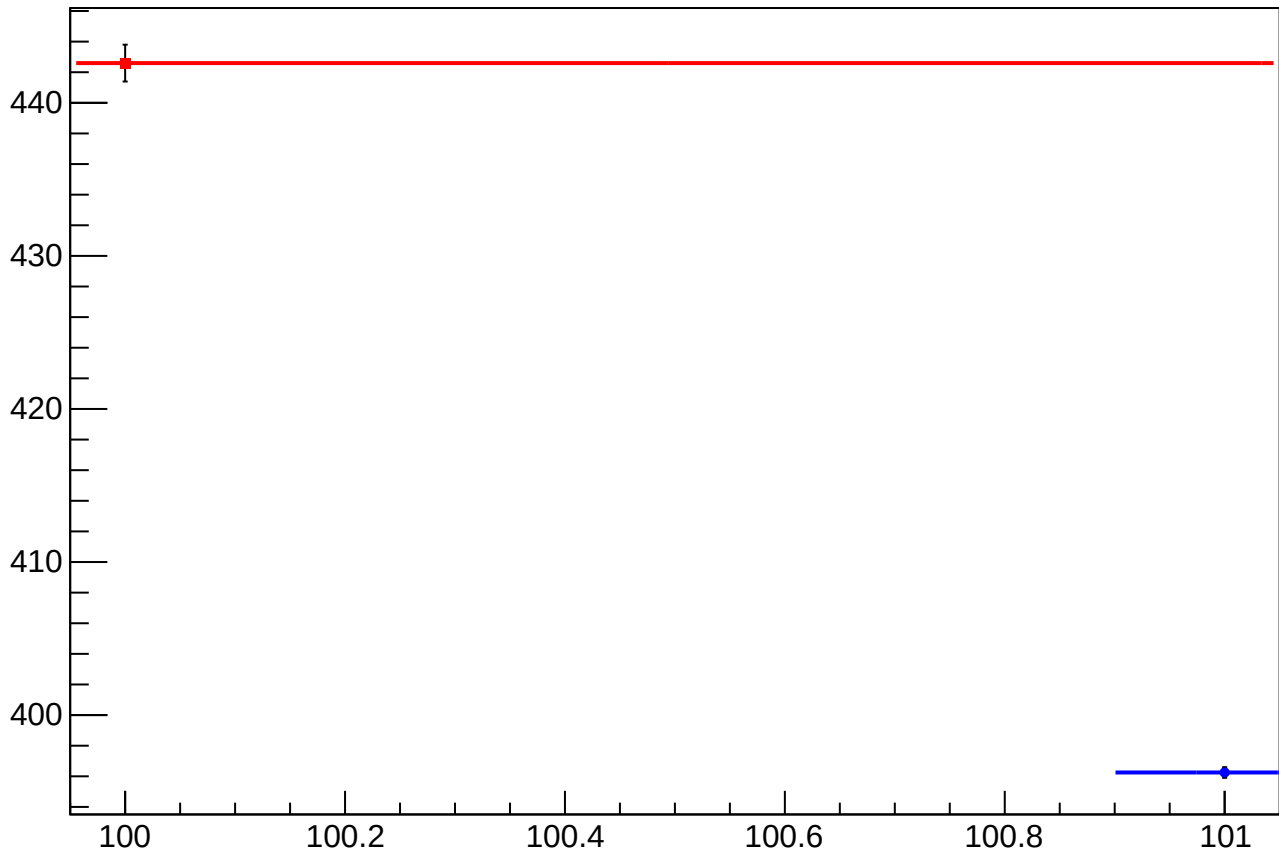
Right: -1167.356+/-472.311  $\chi^2/\text{NDF}$ : 0.3/1

In: -1099.138+/-491.618  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1167.356+/-472.311  $\chi^2/\text{NDF}$ : 0.3/1

# asym\_bpm0l02WS\_rms vs Slug, Sign Corrected



Right In: 396.251 $\pm$ 0.348  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 442.596 $\pm$ 1.204  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

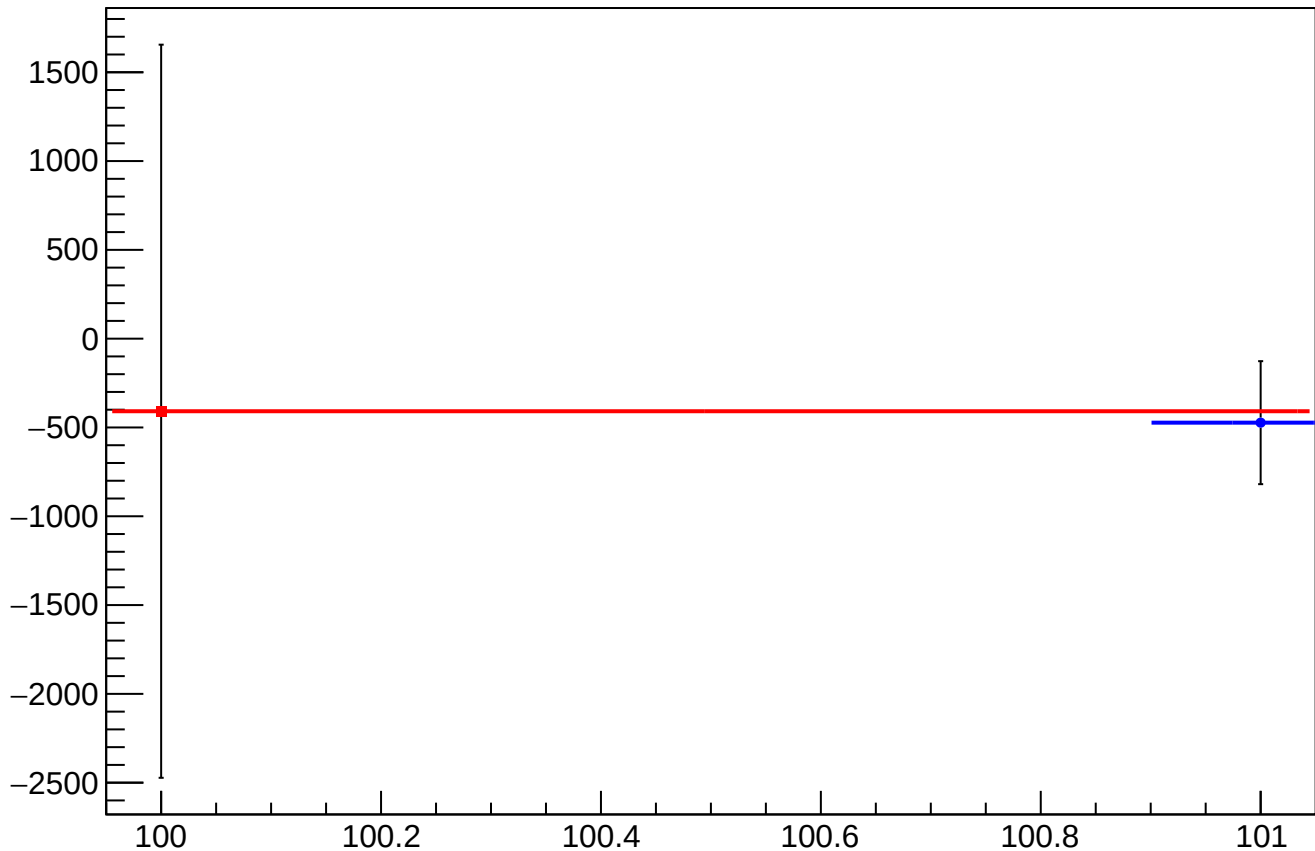
Right: 399.819 $\pm$ 0.334  $\chi^2/\text{NDF}$ : 1368.7/1

In: 396.251 $\pm$ 0.348  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 399.819 $\pm$ 0.334  $\chi^2/\text{NDF}$ : 1368.7/1

# asym\_bpm0l03WS\_mean vs Slug, Sign Corrected



Right In: -472.947+/-346.271  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -408.617+/-2063.945  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

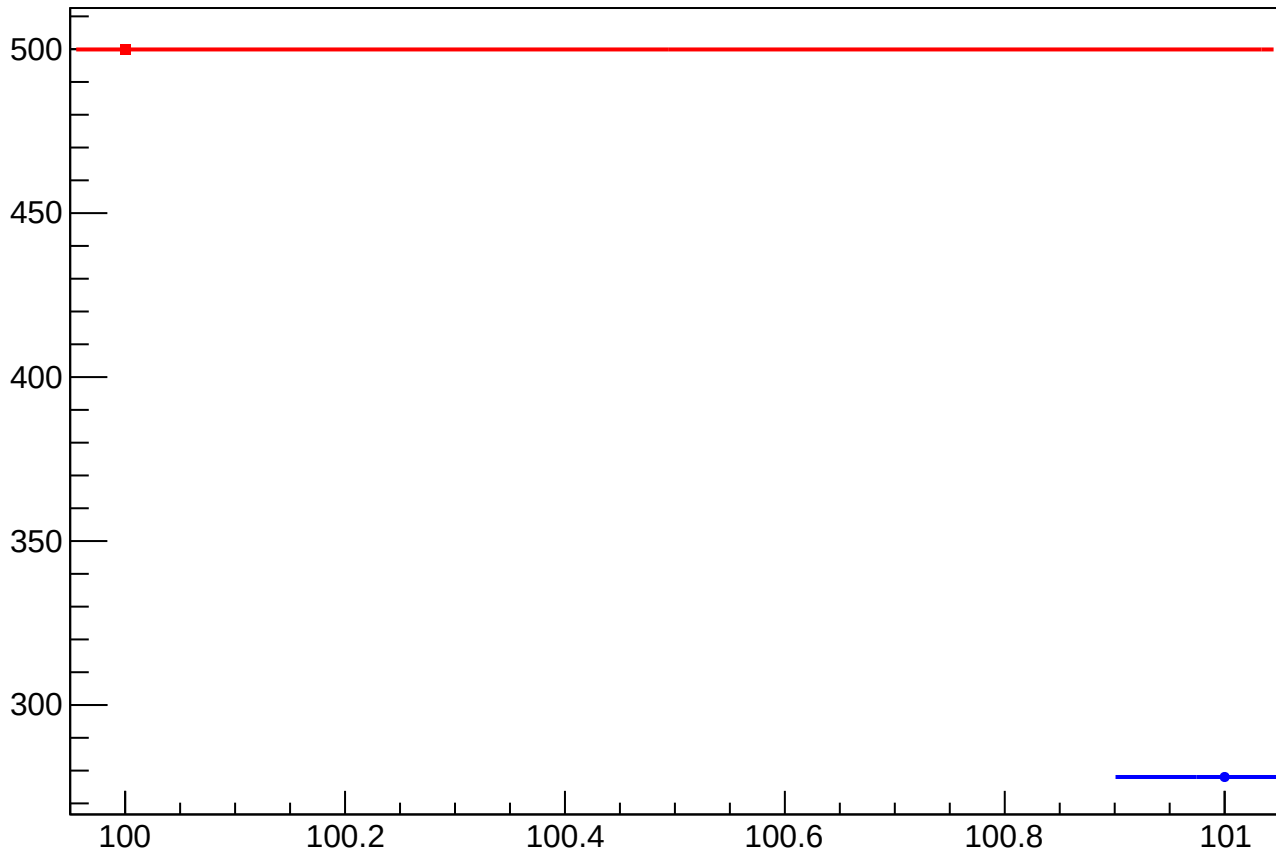
Right: -471.186+/-341.498  $\chi^2$ /NDF: 0.0/1

In: -472.947+/-346.271  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -471.186+/-341.498  $\chi^2$ /NDF: 0.0/1

# asym\_bpm0l03WS\_rms vs Slug, Sign Corrected



Right In: 278.051+/-0.245  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 499.910+/-1.459  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

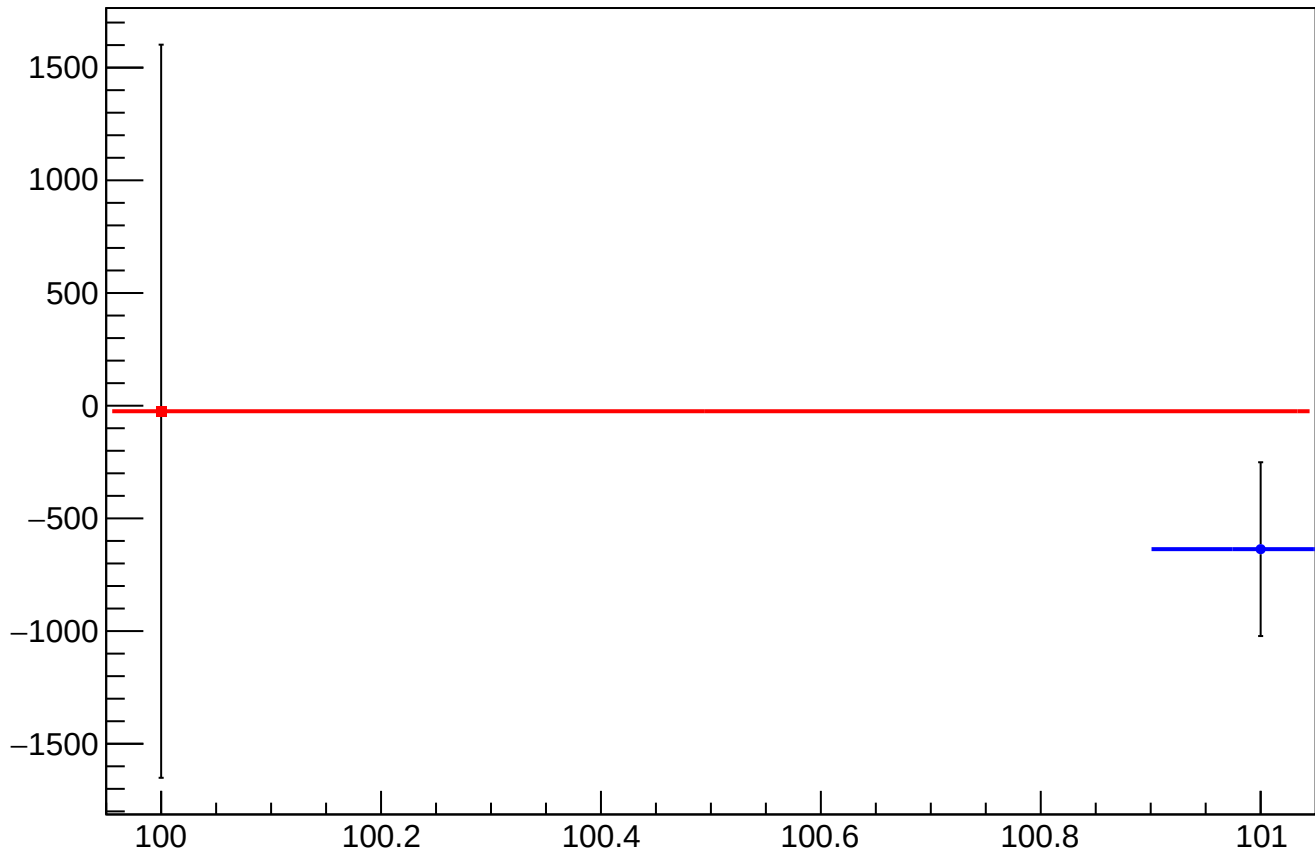
Right: 284.125+/-0.241  $\chi^2/\text{NDF}$ : 22476.7/1

In: 278.051+/-0.245  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 284.125+/-0.241  $\chi^2/\text{NDF}$ : 22476.7/1

# asym\_bpm0l04WS\_mean vs Slug, Sign Corrected



Right In: -636.473+/-385.549  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -24.553+/-1626.425  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

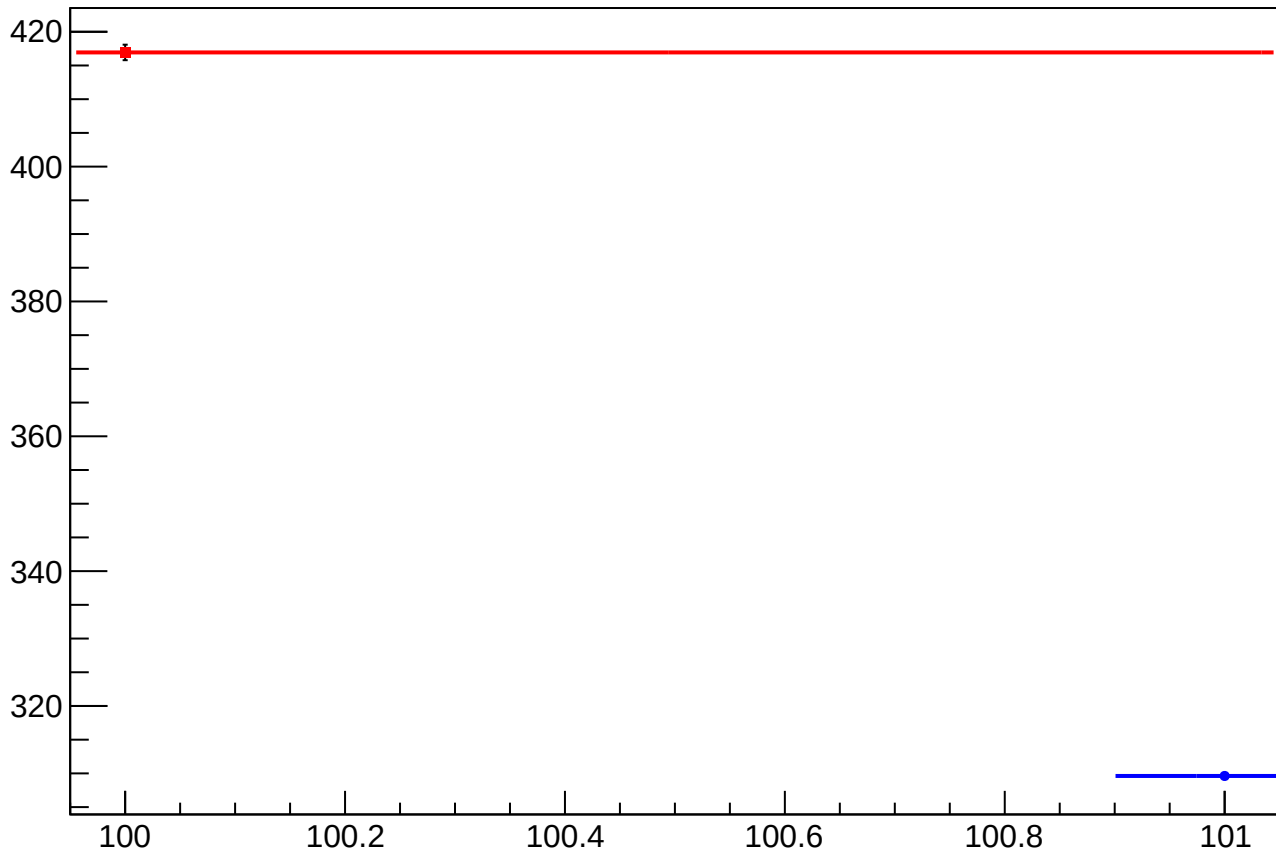
Right: -603.916+/-375.153  $\chi^2$ /NDF: 0.1/1

In: -636.473+/-385.549  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -603.916+/-375.153  $\chi^2$ /NDF: 0.1/1

# asym\_bpm0l04WS\_rms vs Slug, Sign Corrected



Right In: 309.619 $\pm$ 0.273  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 416.937 $\pm$ 1.150  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 315.329 $\pm$ 0.265  $\chi^2$ /NDF: 8244.5/1

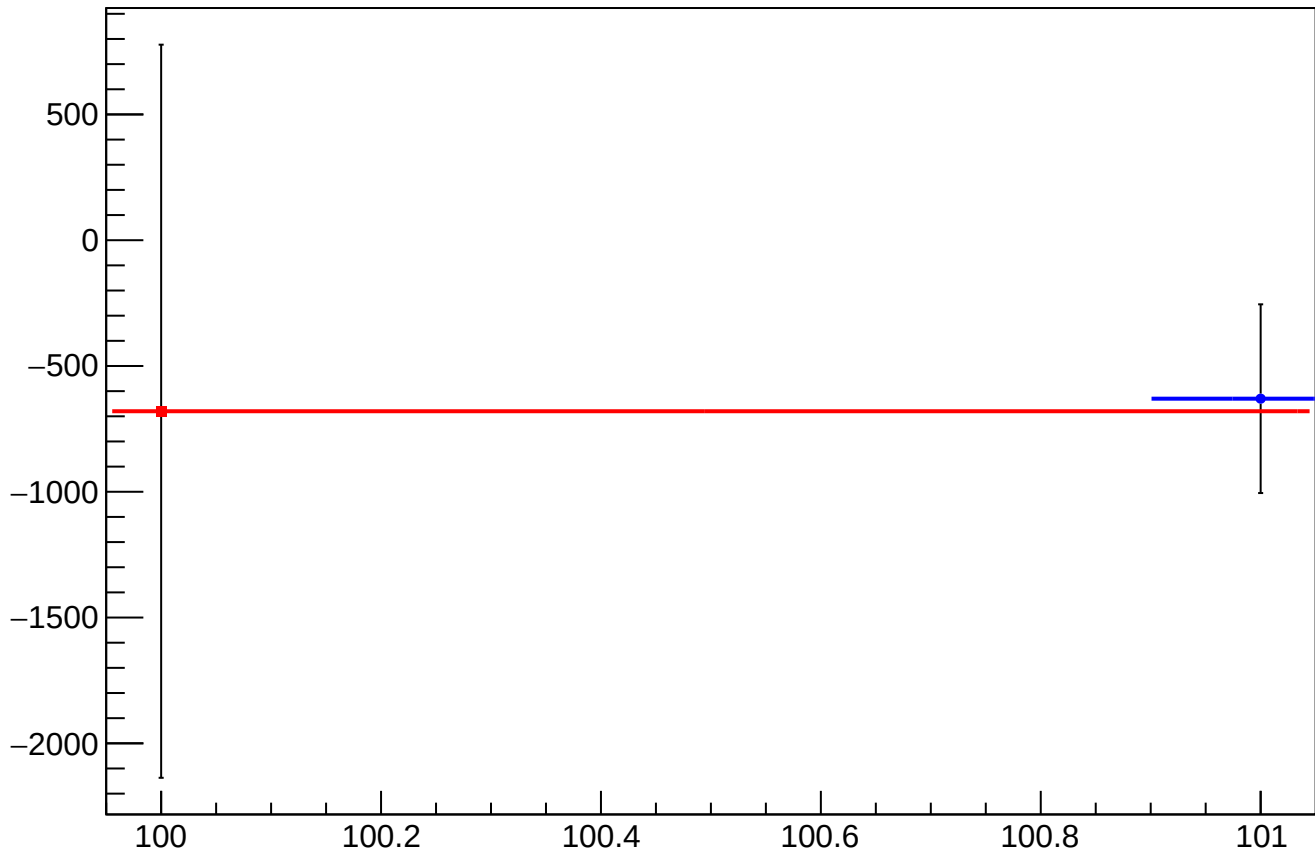
In: 309.619 $\pm$ 0.273  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 315.329 $\pm$ 0.265  $\chi^2$ /NDF: 8244.5/1



# asym\_bpm0l05WS\_mean vs Slug, Sign Corrected



Right In: -629.954+/-375.120  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -679.855+/-1457.178  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

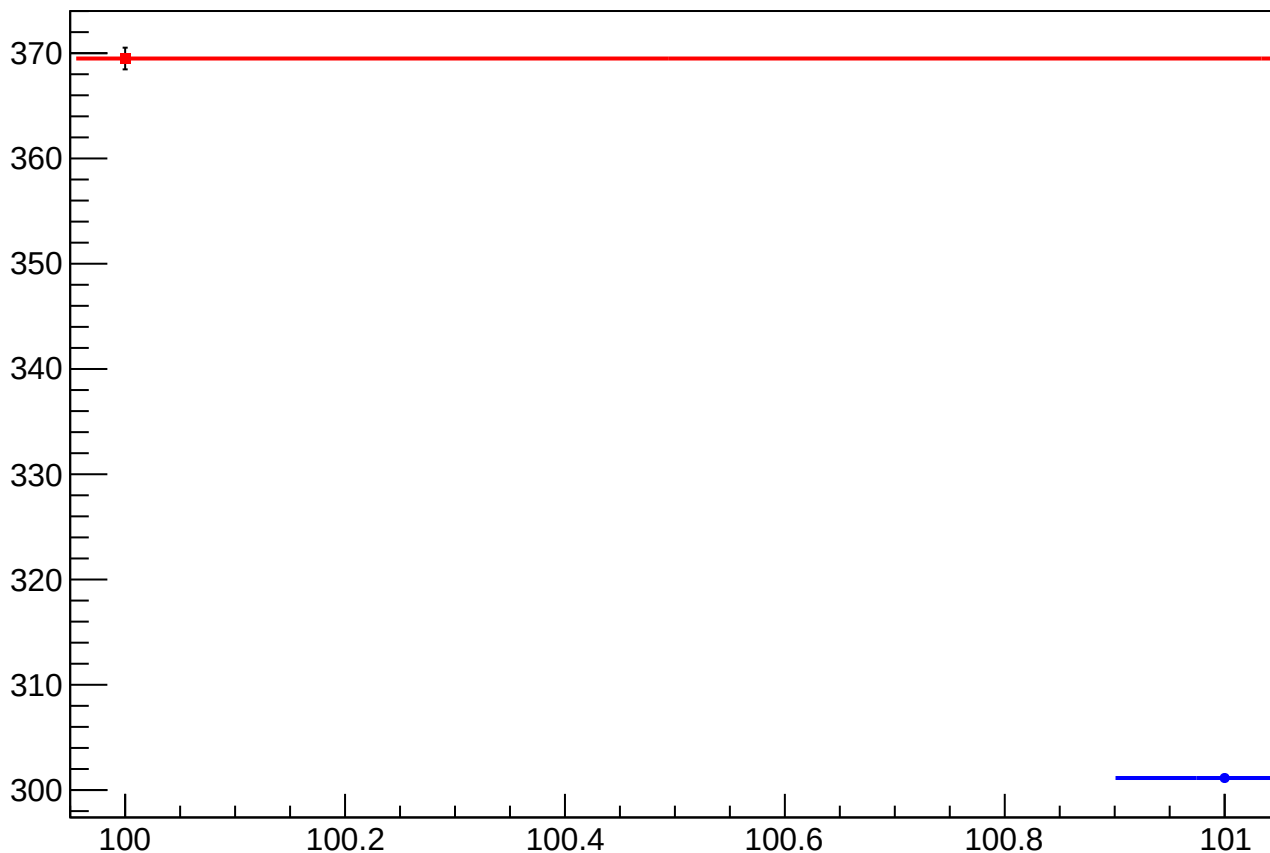
Right: -633.055+/-363.276  $\chi^2/\text{NDF}$ : 0.0/1

In: -629.954+/-375.120  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -633.055+/-363.276  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_bpm0l05WS\_rms vs Slug, Sign Corrected



Right In: 301.144+/-0.265  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 369.494+/-1.030  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

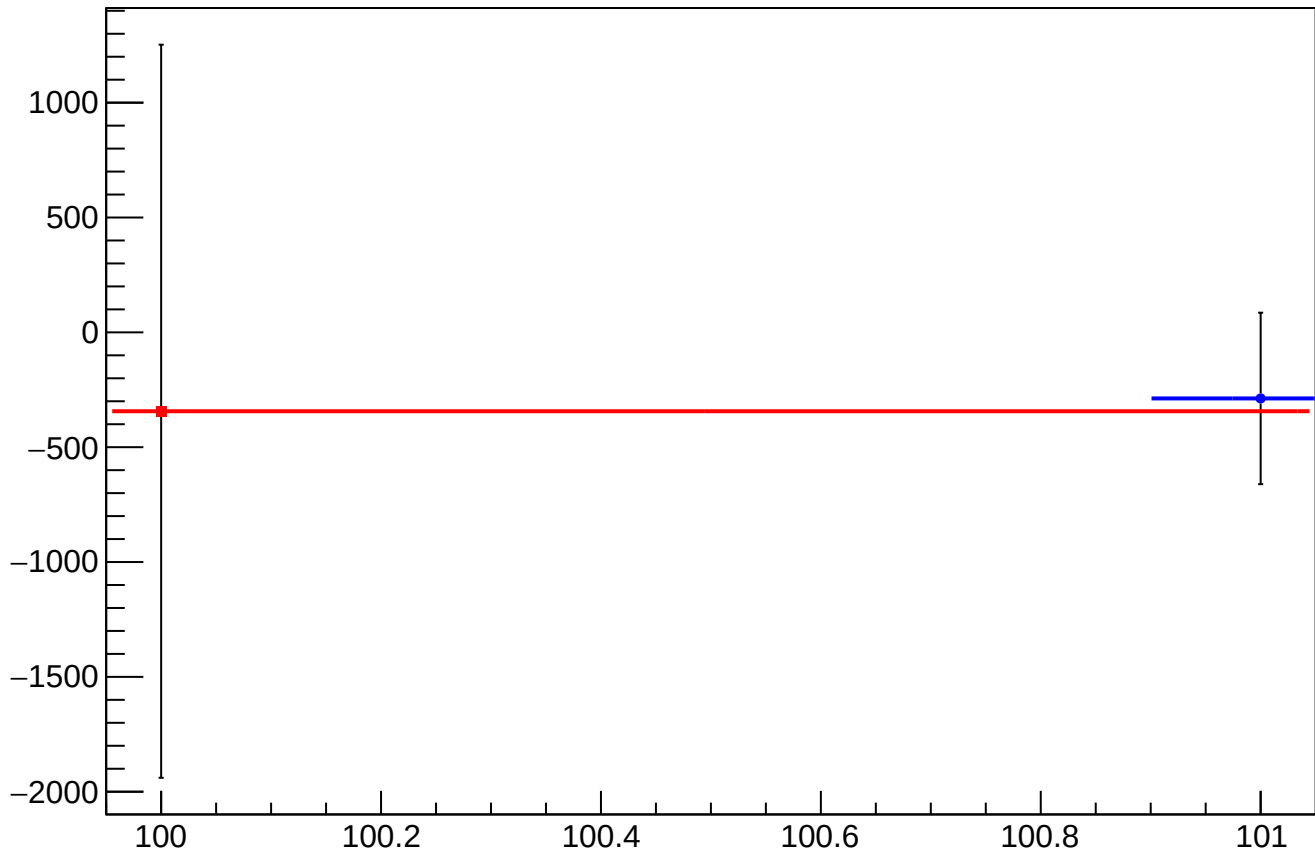
Right: 305.392+/-0.257  $\chi^2/\text{NDF}$ : 4126.8/1

In: 301.144+/-0.265  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 305.392+/-0.257  $\chi^2/\text{NDF}$ : 4126.8/1

# asym\_bpm0l06WS\_mean vs Slug, Sign Corrected



Right In: -287.680+/-373.272  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -343.450+/-1595.966  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

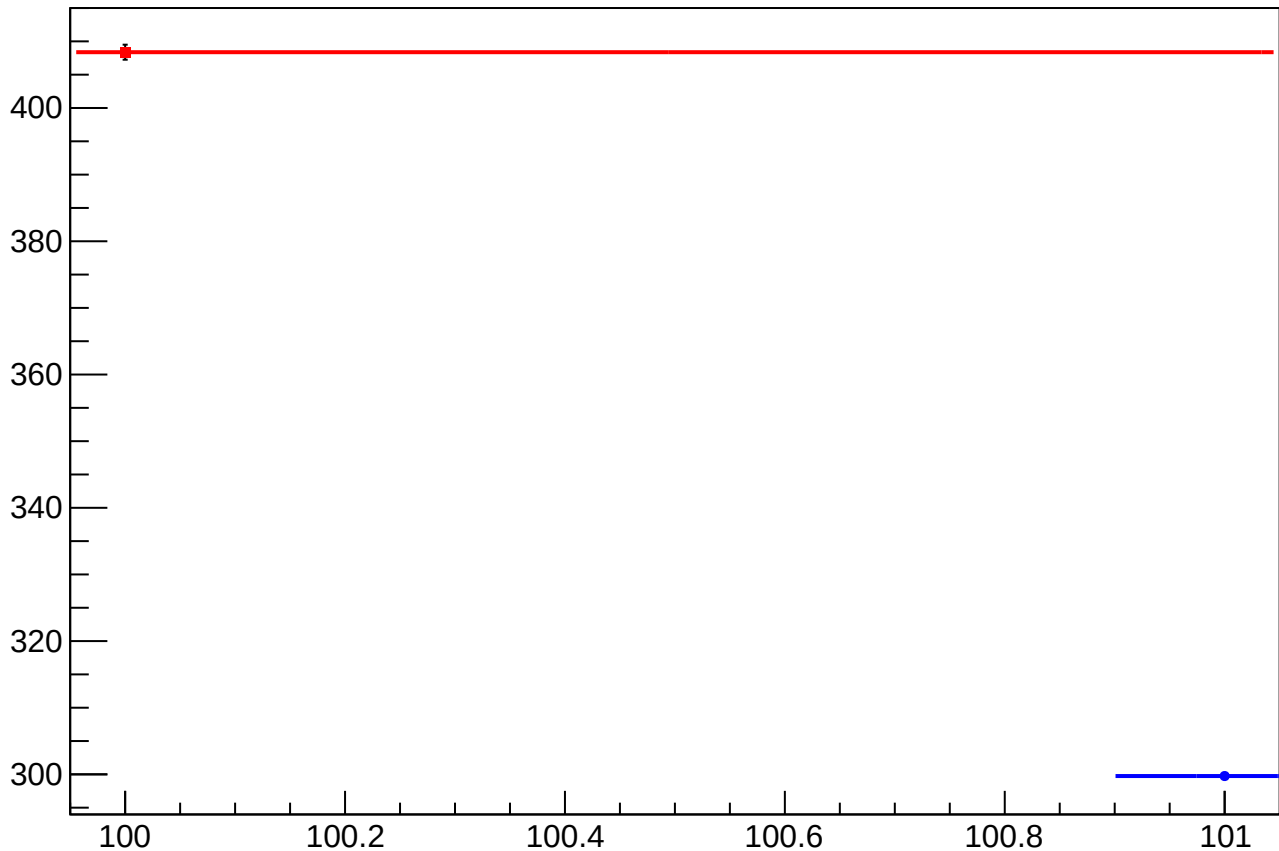
Right: -290.572+/-363.464  $\chi^2/\text{NDF}$ : 0.0/1

In: -287.680+/-373.272  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -290.572+/-363.464  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_bpm0l06WS\_rms vs Slug, Sign Corrected



Right In: 299.747 $\pm$ 0.264  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 408.374 $\pm$ 1.129  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

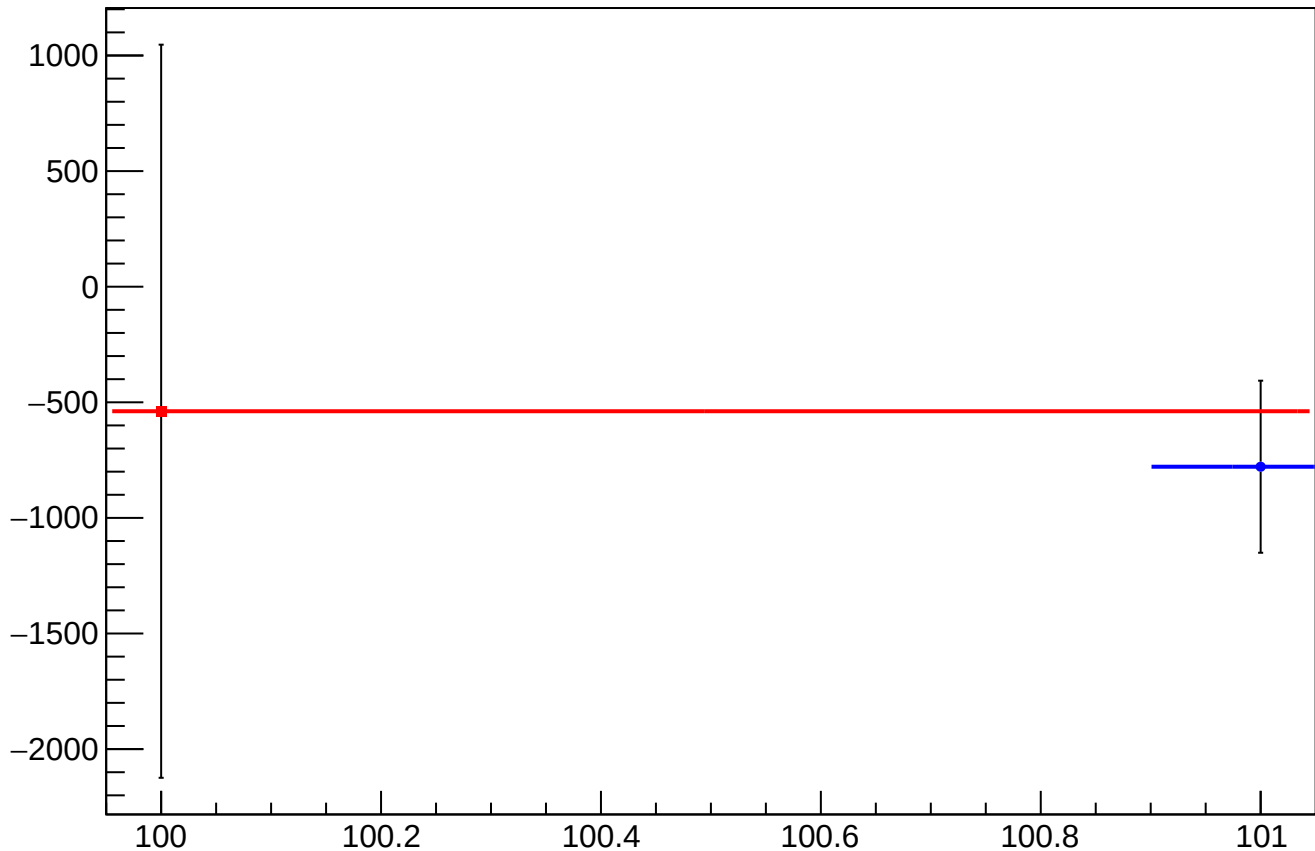
Right: 305.381 $\pm$ 0.257  $\chi^2$ /NDF: 8784.7/1

In: 299.747 $\pm$ 0.264  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 305.381 $\pm$ 0.257  $\chi^2$ /NDF: 8784.7/1

# asym\_bpm0l07WS\_mean vs Slug, Sign Corrected



Right In: -778.646+/-372.105  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -538.637+/-1585.491  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

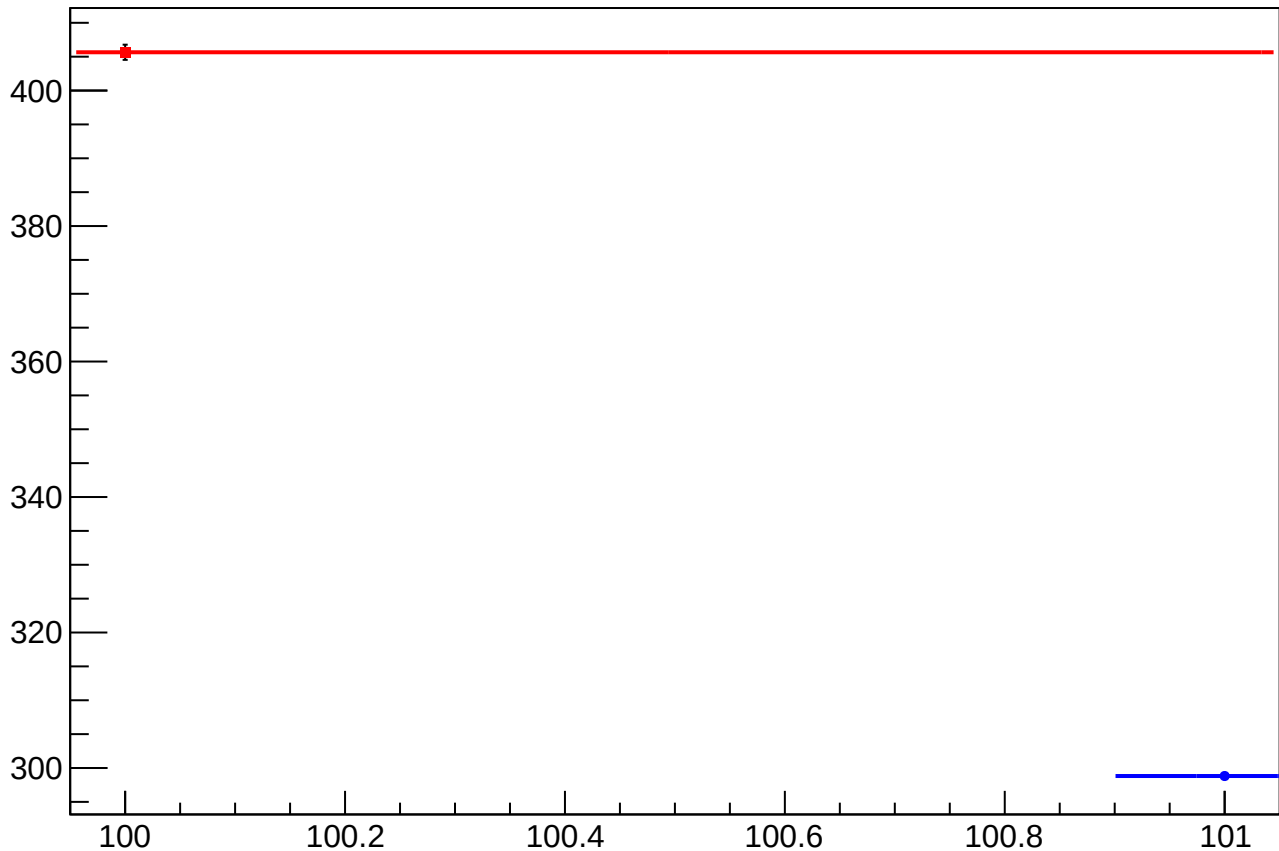
Right: -766.116+/-362.262  $\chi^2/\text{NDF}$ : 0.0/1

In: -778.646+/-372.105  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -766.116+/-362.262  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_bpm0l07WS\_rms vs Slug, Sign Corrected



Right In: 298.818 $\pm$ 0.263  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 405.651 $\pm$ 1.121  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

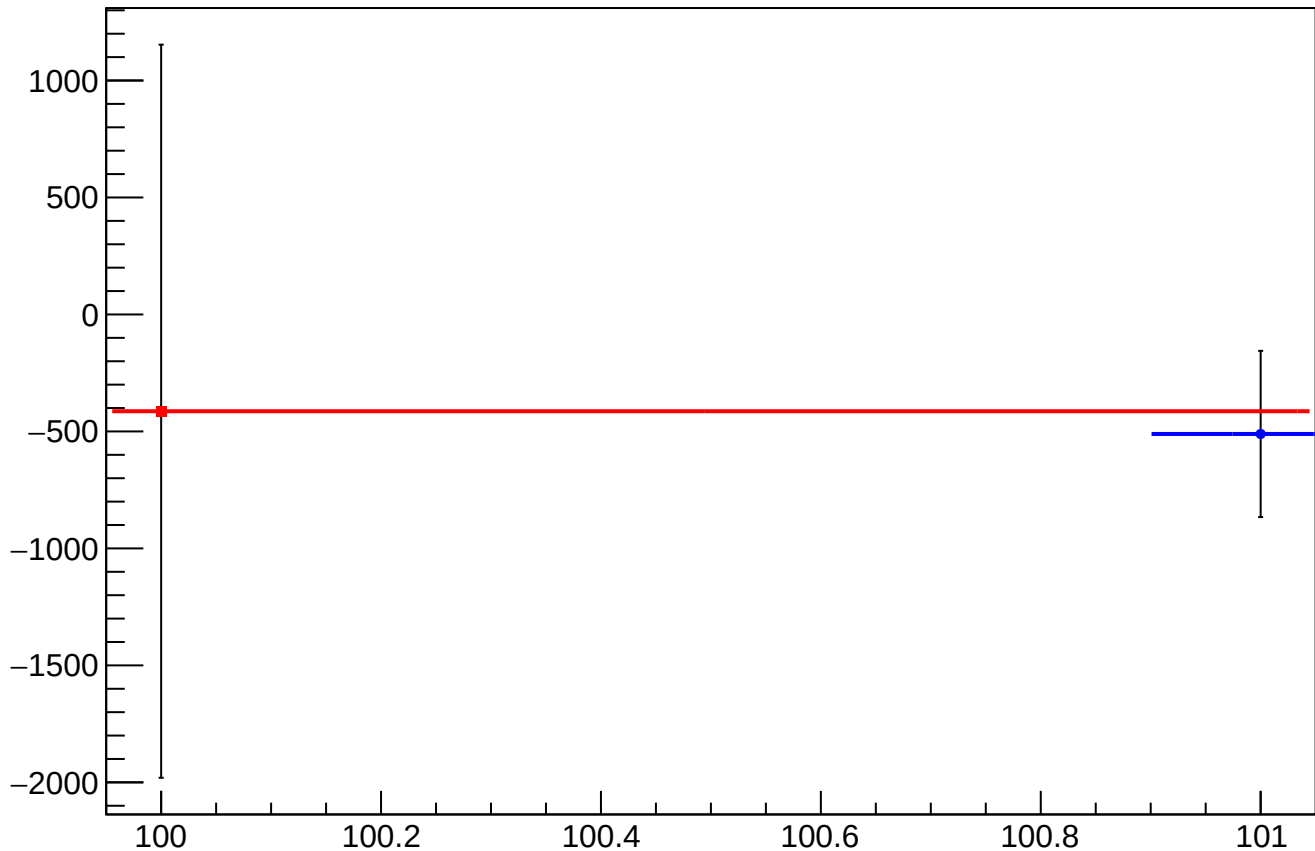
Right: 304.395 $\pm$ 0.256  $\chi^2$ /NDF: 8606.6/1

In: 298.818 $\pm$ 0.263  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 304.395 $\pm$ 0.256  $\chi^2$ /NDF: 8606.6/1

# asym\_bpm0l08WS\_mean vs Slug, Sign Corrected



Right In:  $-510.842 \pm 355.291$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-413.666 \pm 1566.847$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

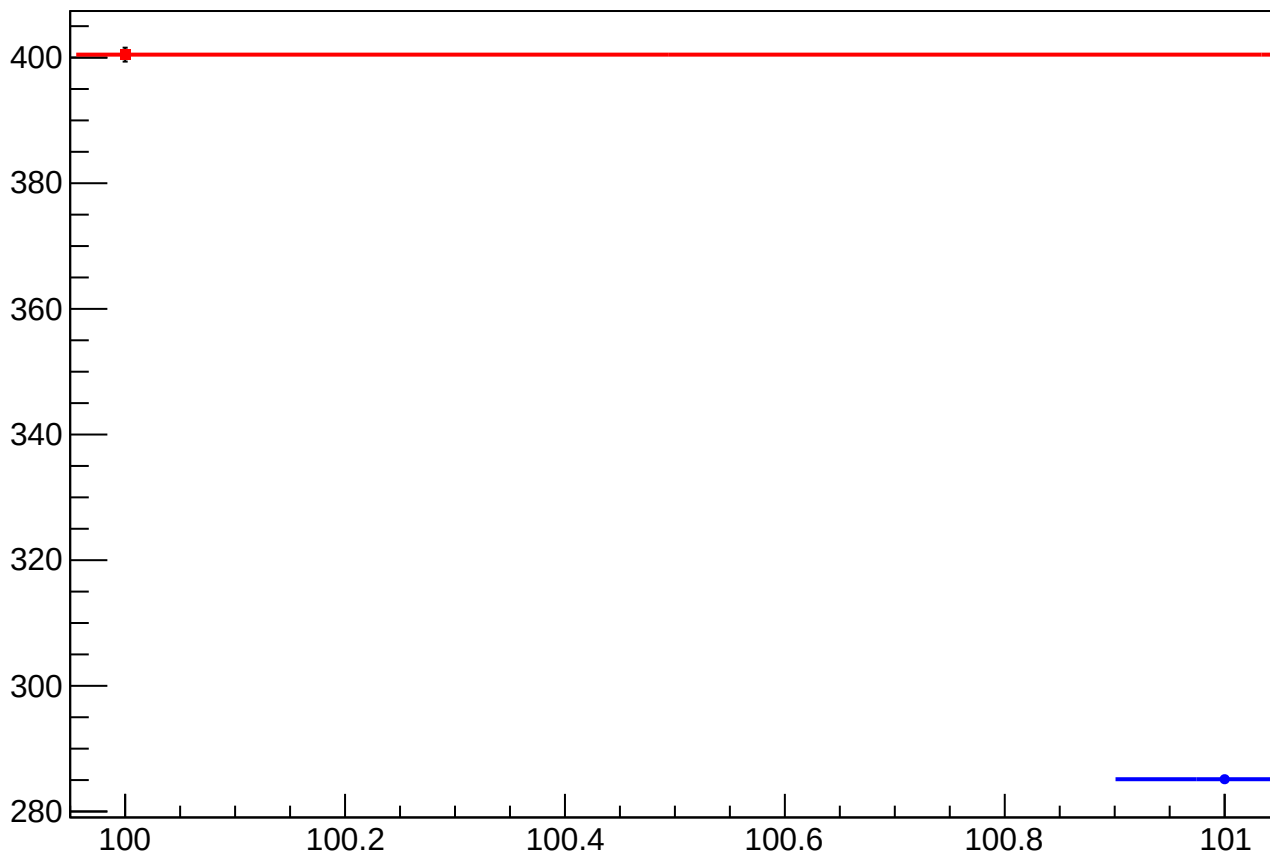
Right:  $-506.090 \pm 346.495$   $\chi^2/\text{NDF}: 0.0/1$

In:  $-510.842 \pm 355.291$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-506.090 \pm 346.495$   $\chi^2/\text{NDF}: 0.0/1$

# asym\_bpm0l08WS\_rms vs Slug, Sign Corrected



Right In: 285.135+/-0.251  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 400.469+/-1.108  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 290.775+/-0.245  $\chi^2/\text{NDF}$ : 10306.6/1

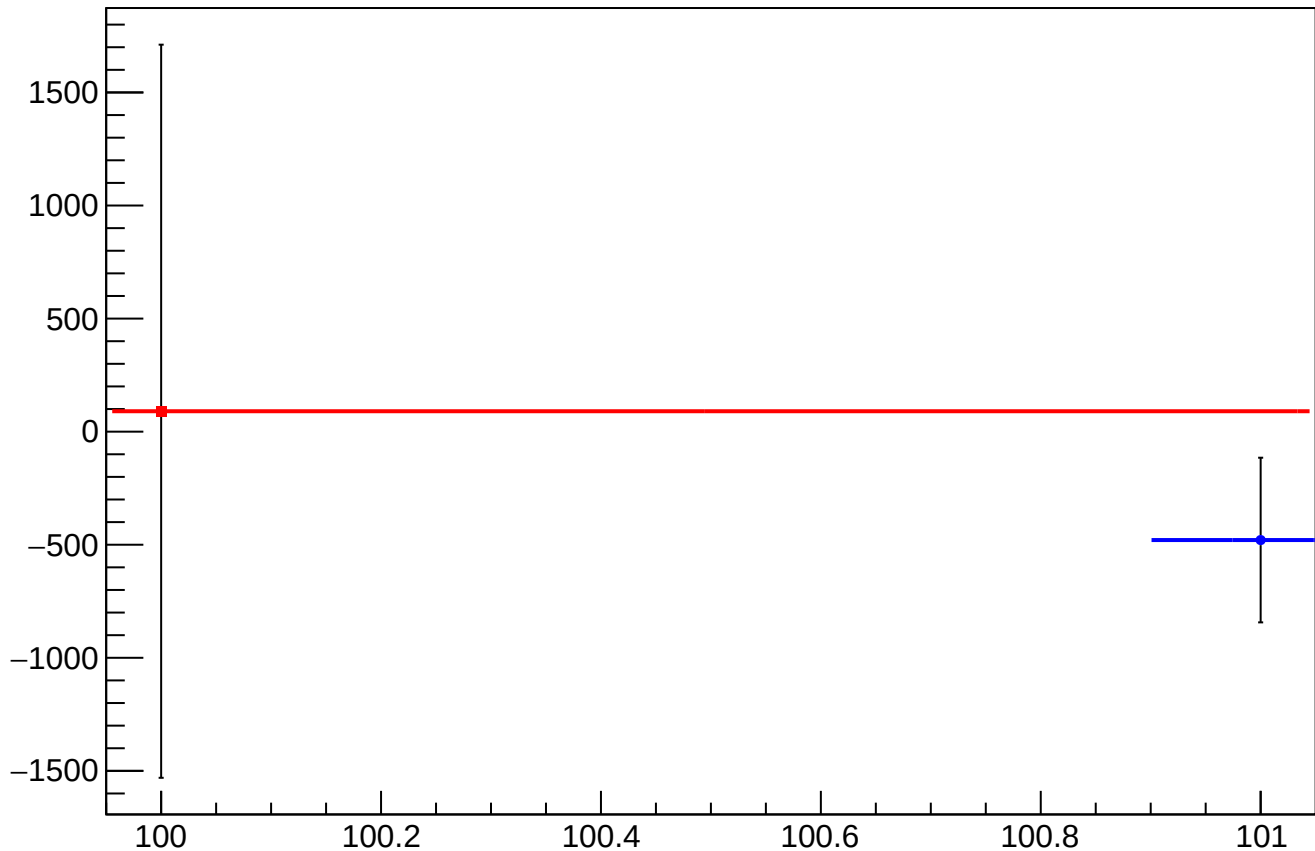
In: 285.135+/-0.251  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 290.775+/-0.245  $\chi^2/\text{NDF}$ : 10306.6/1



# asym\_bpm0l09WS\_mean vs Slug, Sign Corrected



Right In: -479.307+/-364.091  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 90.315+/-1620.976  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

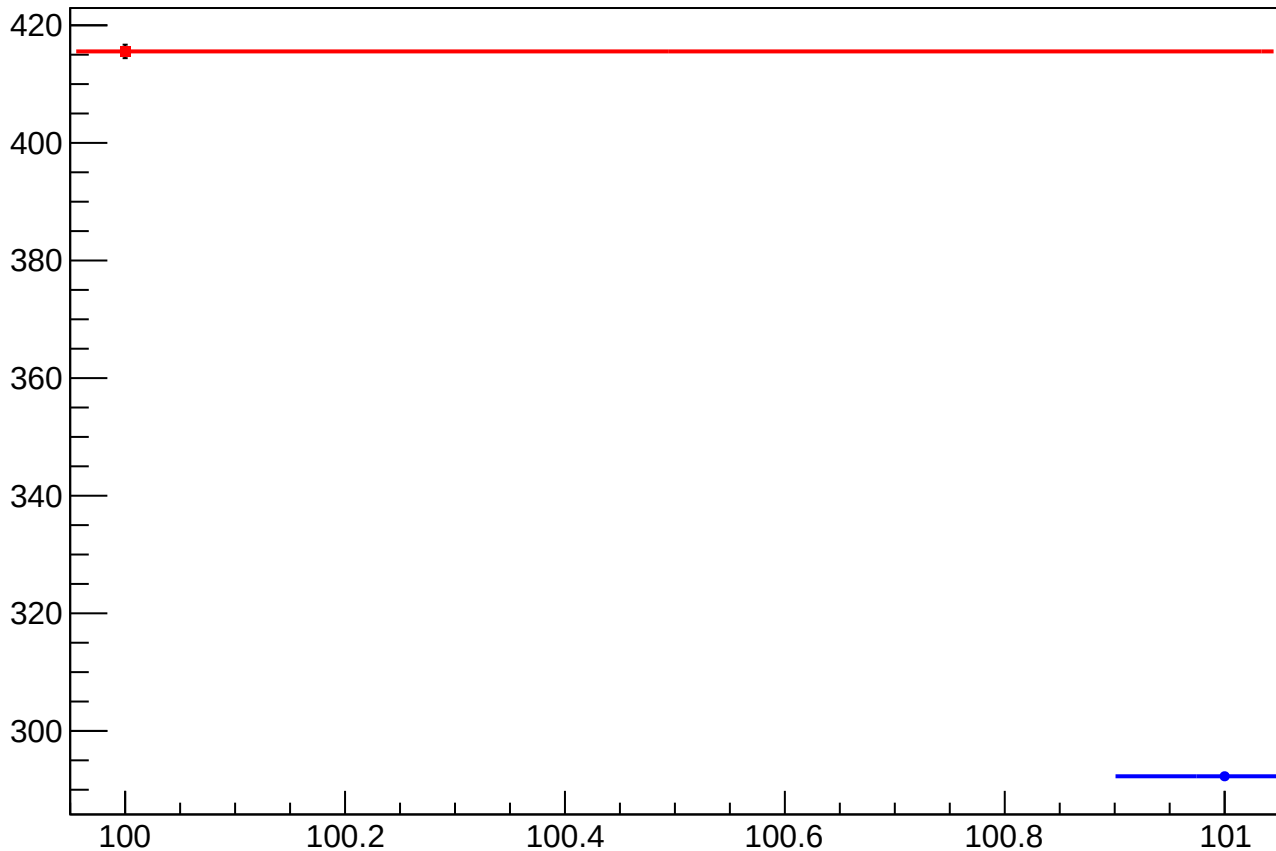
Right: -451.950+/-355.240  $\chi^2/\text{NDF}$ : 0.1/1

In: -479.307+/-364.091  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -451.950+/-355.240  $\chi^2/\text{NDF}$ : 0.1/1

# asym\_bpm0l09WS\_rms vs Slug, Sign Corrected



Right In: 292.288 $\pm$ 0.257  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 415.558 $\pm$ 1.146  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

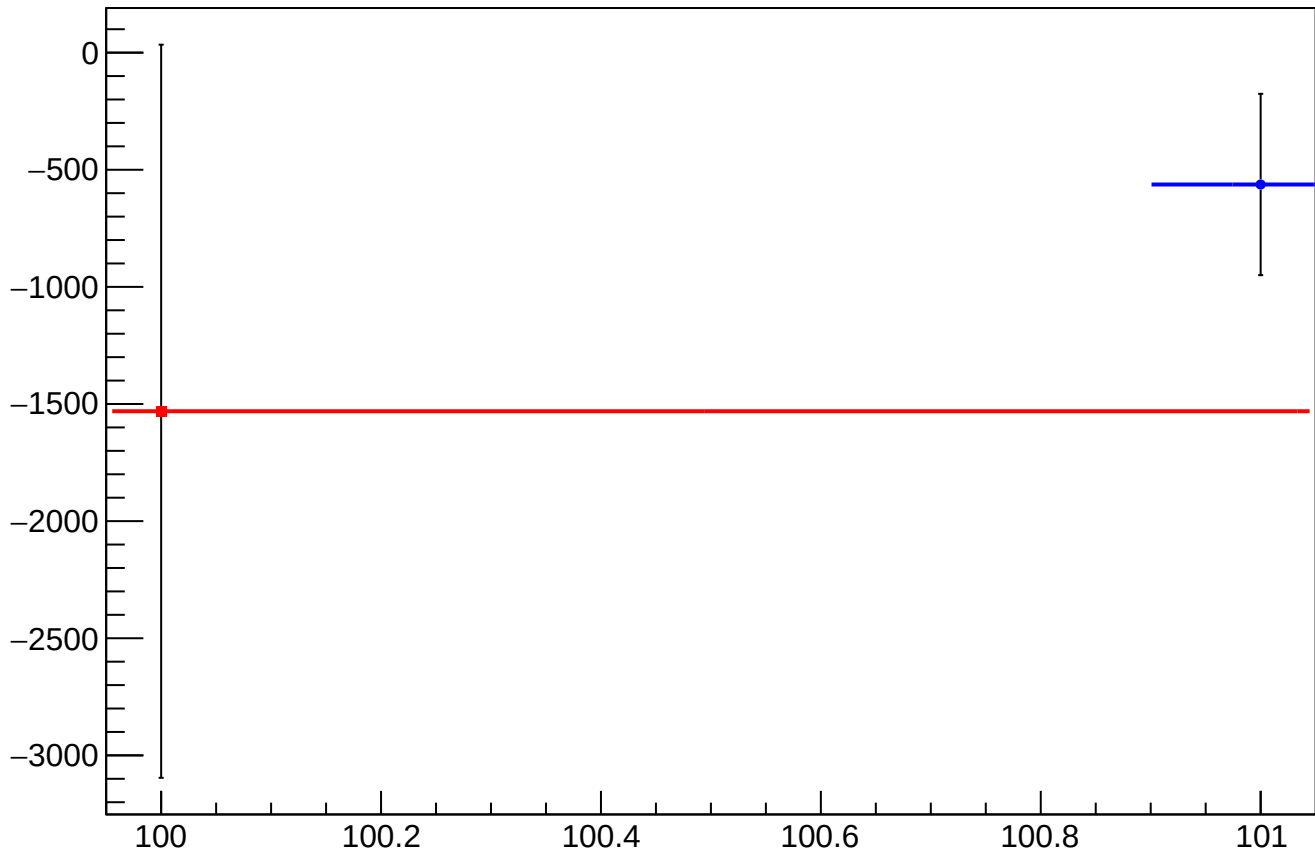
Right: 298.208 $\pm$ 0.251  $\chi^2$ /NDF: 11010.7/1

In: 292.288 $\pm$ 0.257  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 298.208 $\pm$ 0.251  $\chi^2$ /NDF: 11010.7/1

# asym\_bpm0l10WS\_mean vs Slug, Sign Corrected



Right In: -562.862+/-387.090  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1530.855+/-1564.890  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

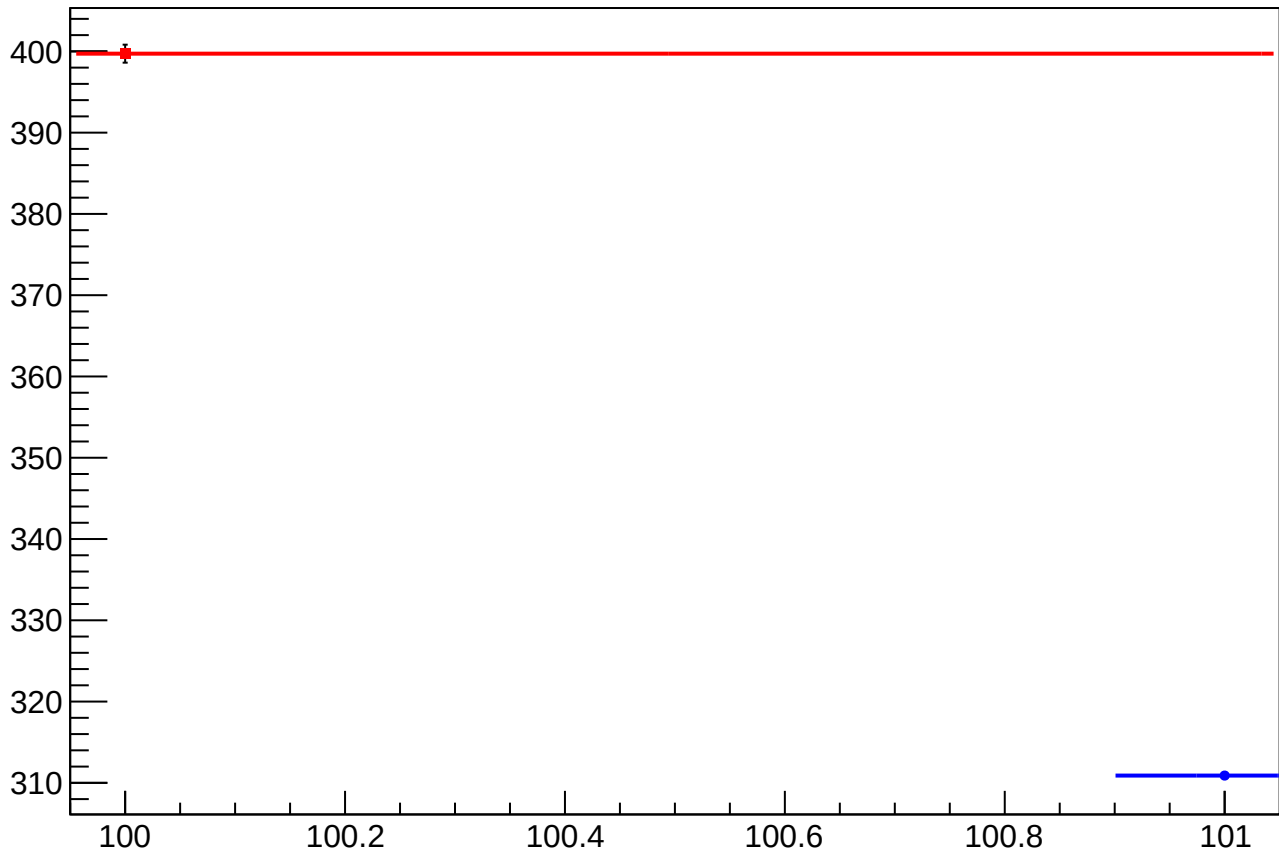
Right: -618.675+/-375.765  $\chi^2$ /NDF: 0.4/1

In: -562.862+/-387.090  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -618.675+/-375.765  $\chi^2$ /NDF: 0.4/1

# asym\_bpm0l10WS\_rms vs Slug, Sign Corrected



Right In: 310.894 $\pm$ 0.274  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 399.718 $\pm$ 1.107  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

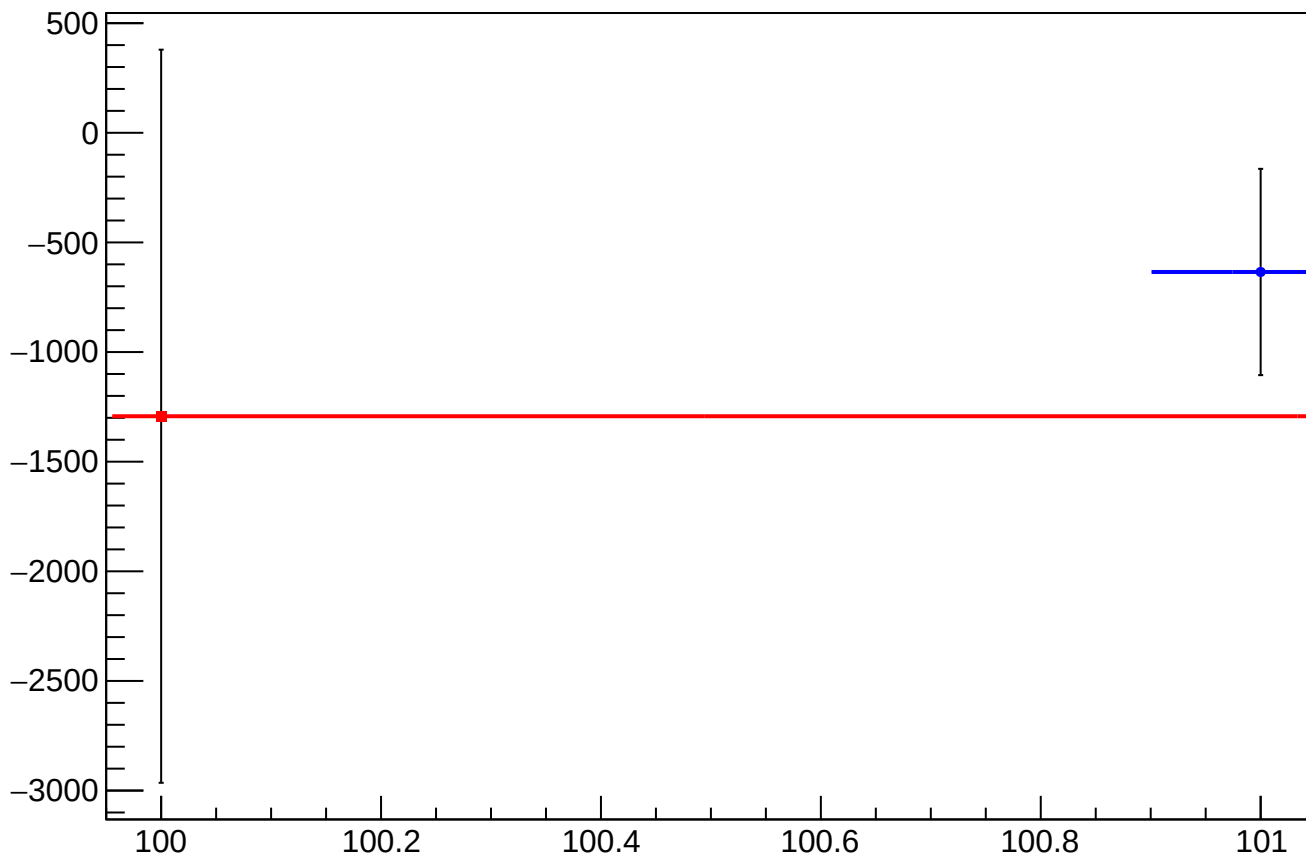
Right: 316.016 $\pm$ 0.266  $\chi^2$ /NDF: 6071.9/1

In: 310.894 $\pm$ 0.274  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 316.016 $\pm$ 0.266  $\chi^2$ /NDF: 6071.9/1

# asym\_bpm0r03WS\_mean vs Slug, Sign Corrected



Right In: -634.796+/-470.480  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1292.718+/-1671.856  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

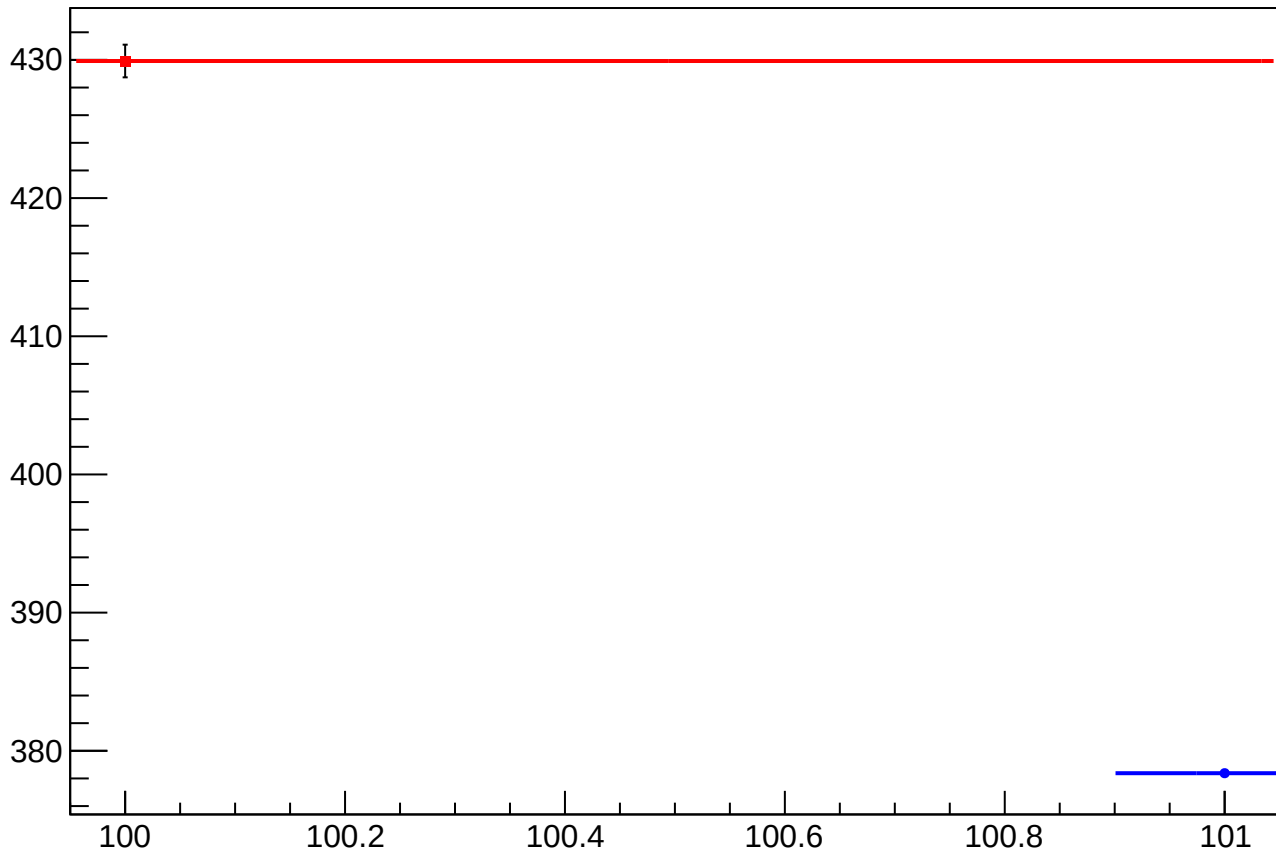
Right: -683.075+/-452.889  $\chi^2/\text{NDF}$ : 0.1/1

In: -634.796+/-470.480  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -683.075+/-452.889  $\chi^2/\text{NDF}$ : 0.1/1

# asym\_bpm0r03WS\_rms vs Slug, Sign Corrected



Right In: 378.379+/-0.333  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 429.921+/-1.182  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

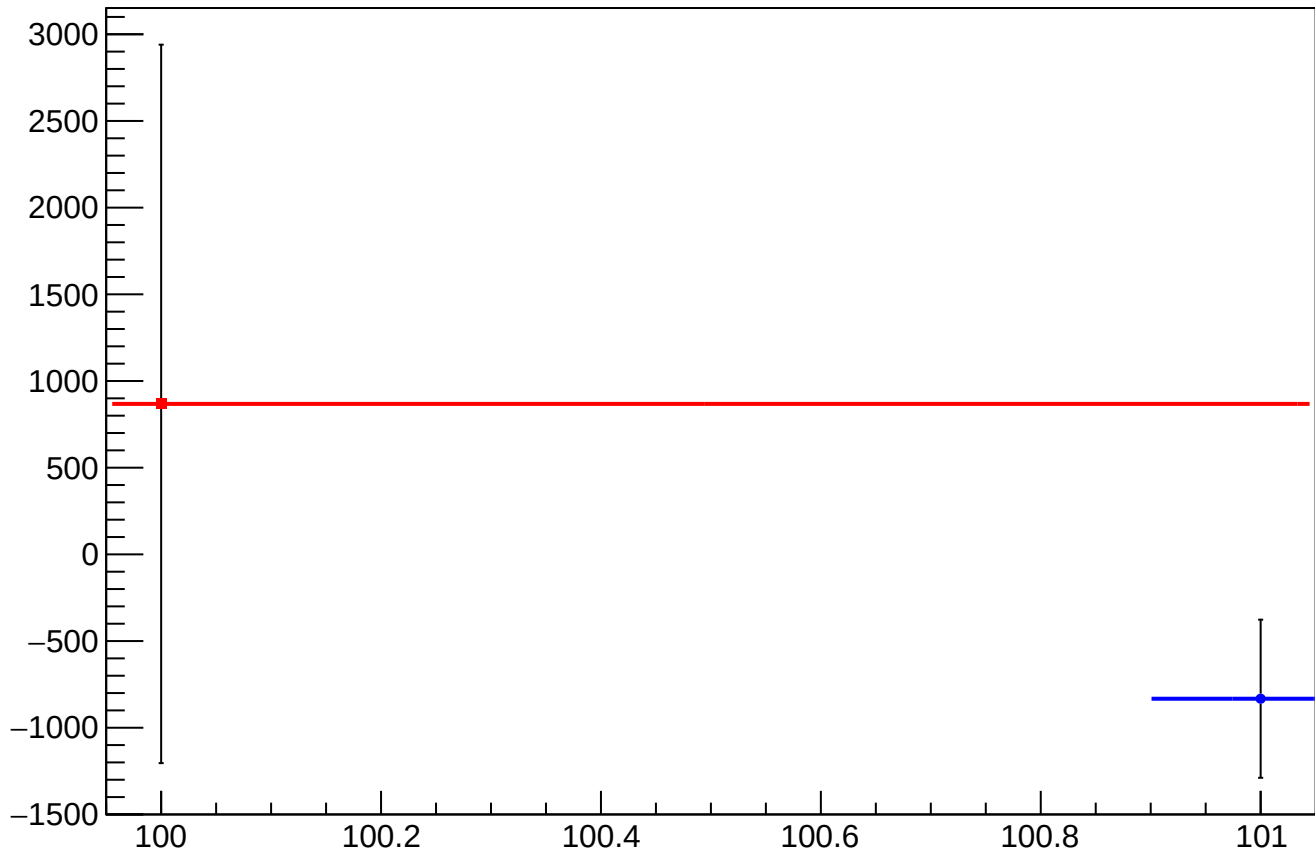
Right: 382.161+/-0.320  $\chi^2/\text{NDF}$ : 1761.4/1

In: 378.379+/-0.333  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 382.161+/-0.320  $\chi^2/\text{NDF}$ : 1761.4/1

# asym\_bpm0r05WS\_mean vs Slug, Sign Corrected



Right In: -832.686+/-456.078  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 867.948+/-2072.050  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

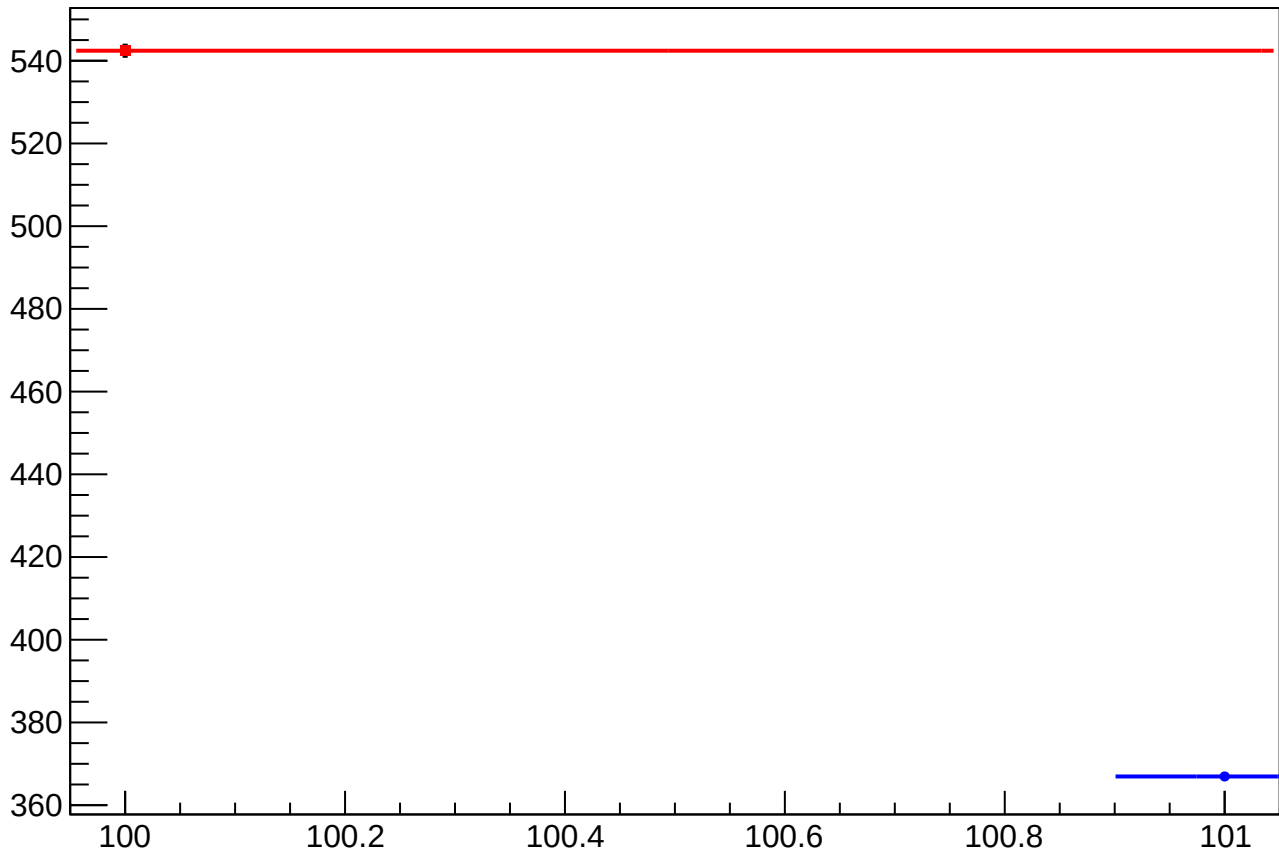
Right: -754.101+/-445.416  $\chi^2/\text{NDF}$ : 0.6/1

In: -832.686+/-456.078  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -754.101+/-445.416  $\chi^2/\text{NDF}$ : 0.6/1

# asym\_bpm0r05WS\_rms vs Slug, Sign Corrected



Right In: 366.940 $\pm$ 0.322  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 542.422 $\pm$ 1.465  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 375.049 $\pm$ 0.315  $\chi^2$ /NDF: 13681.9/1

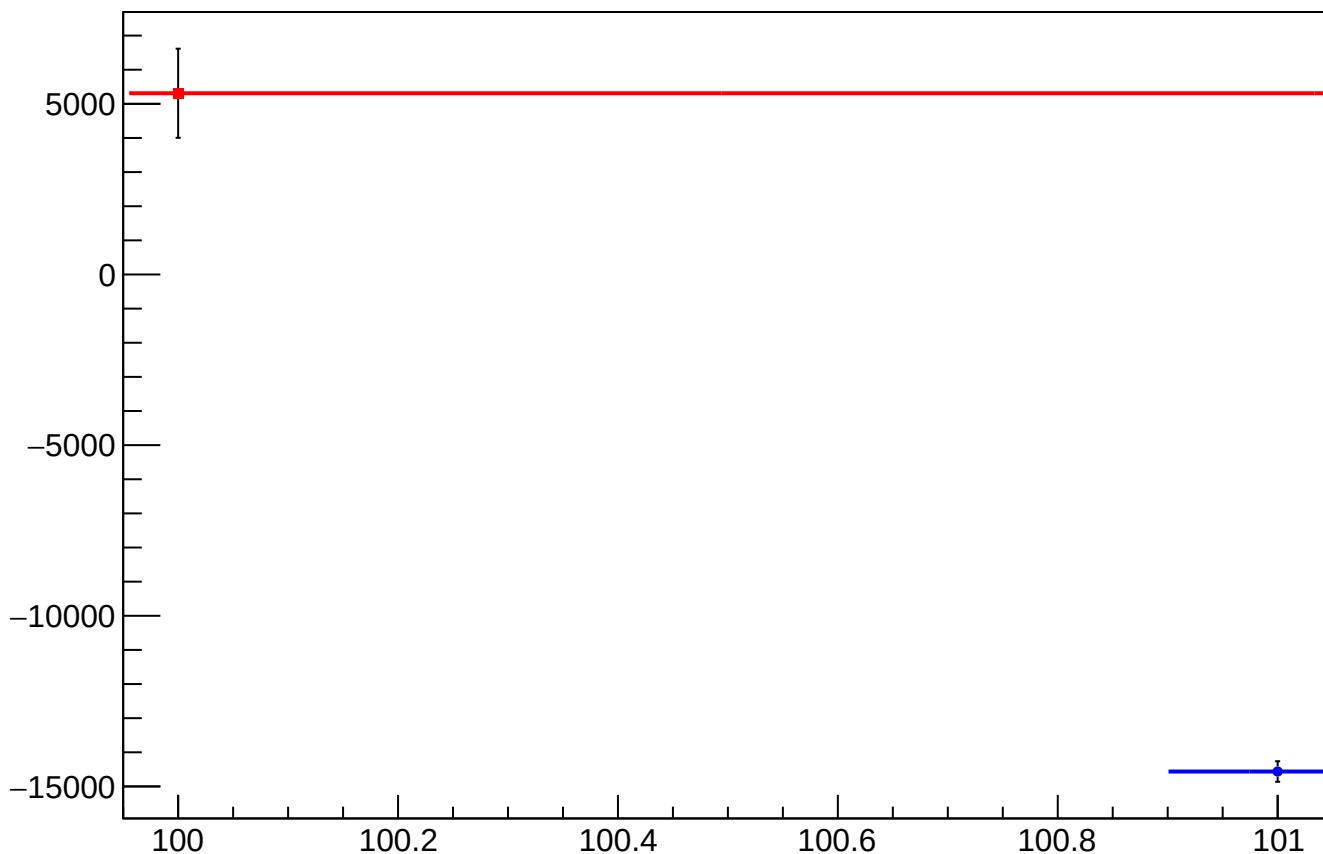
In: 366.940 $\pm$ 0.322  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 375.049 $\pm$ 0.315  $\chi^2$ /NDF: 13681.9/1



# asym\_bpm0i02WS\_mean vs Slug, Sign Corrected



Right In: -14563.057+/-301.132  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5310.435+/-1306.097  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

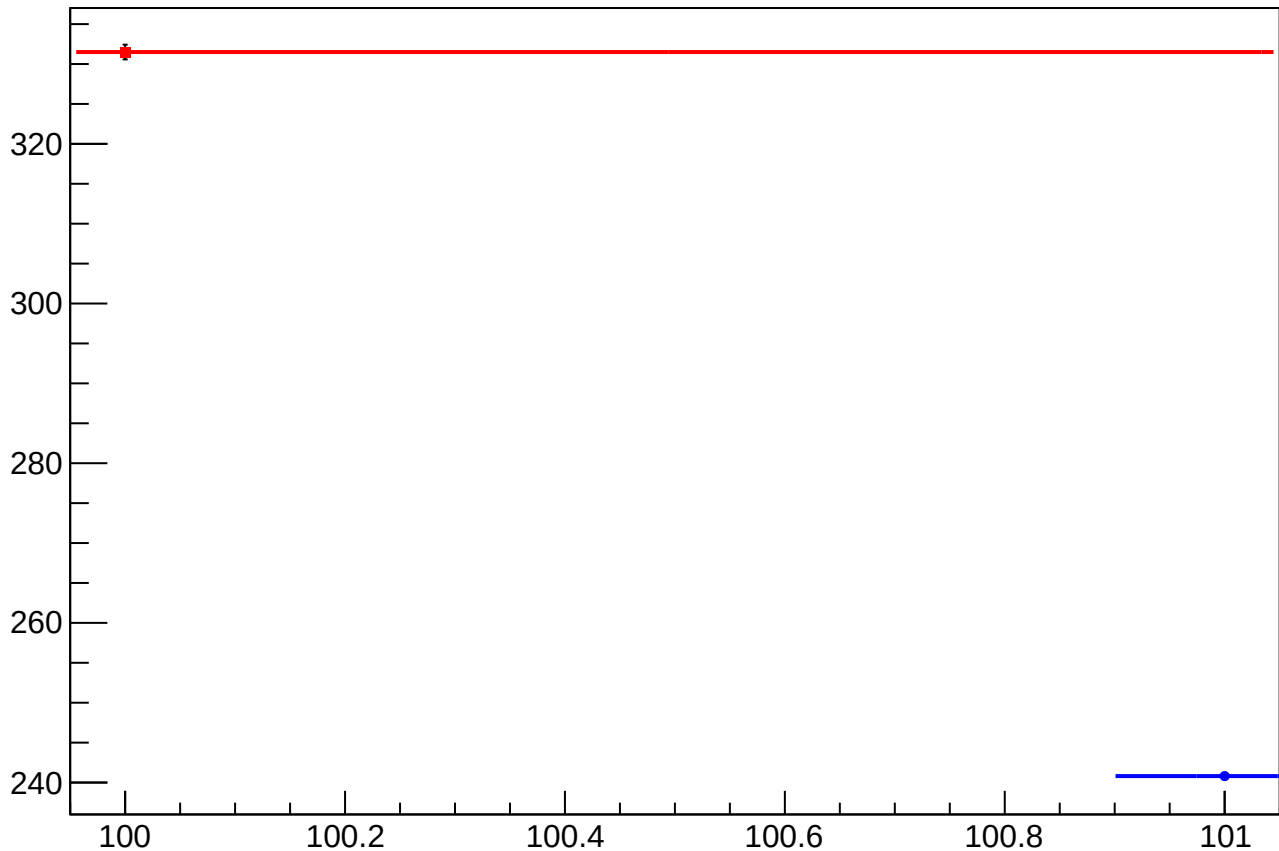
Right: -13559.957+/-293.434  $\chi^2/\text{NDF}$ : 219.8/1

In: -14563.057+/-301.132  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13559.957+/-293.434  $\chi^2/\text{NDF}$ : 219.8/1

# asym\_bpm0i02WS\_rms vs Slug, Sign Corrected



Right In: 240.808 $\pm$ 0.213  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 331.501 $\pm$ 0.924  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

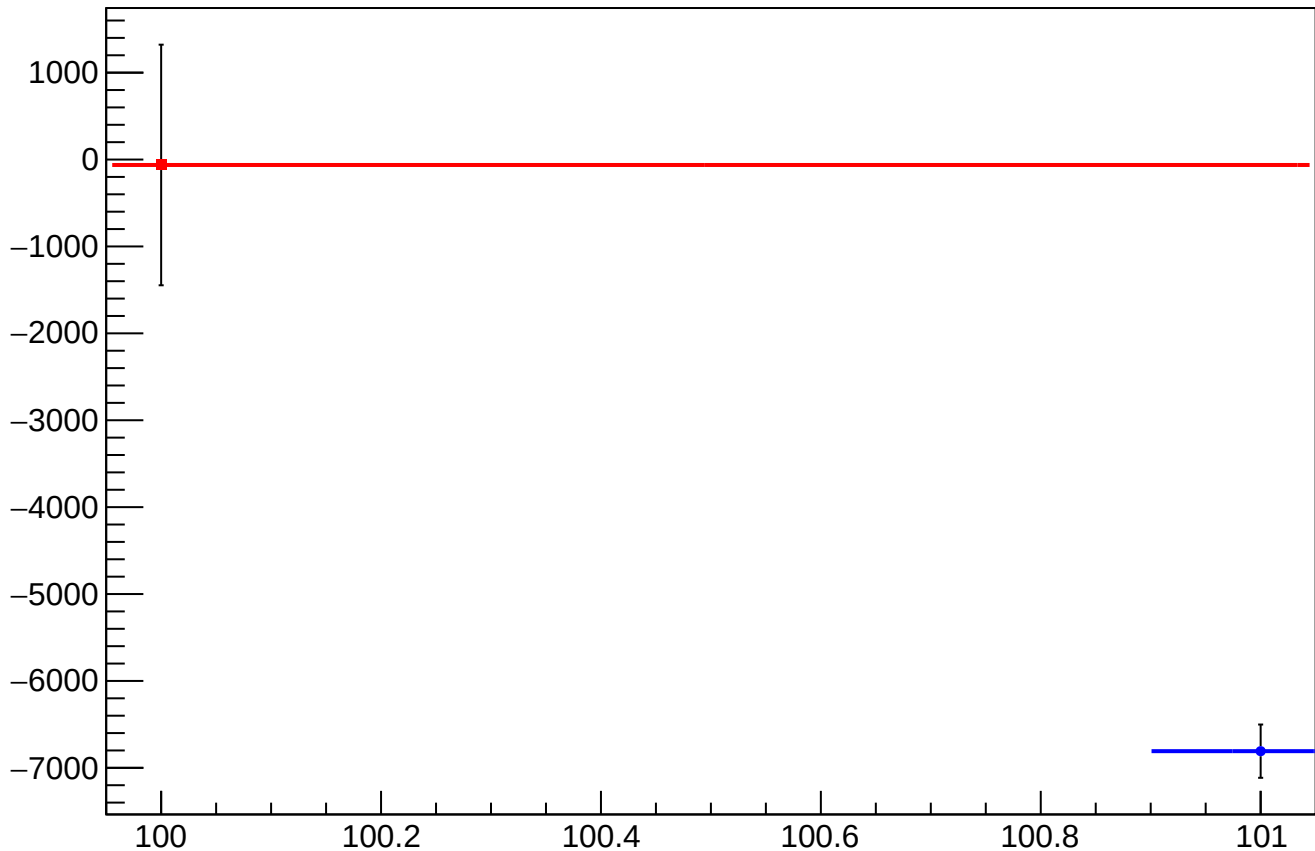
Right: 245.385 $\pm$ 0.207  $\chi^2$ /NDF: 9156.6/1

In: 240.808 $\pm$ 0.213  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 245.385 $\pm$ 0.207  $\chi^2$ /NDF: 9156.6/1

asym\_bpm0i02aWS\_mean vs Slug, Sign Corrected



Right In: -6808.103+/-306.531  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -62.465+/-1384.454  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

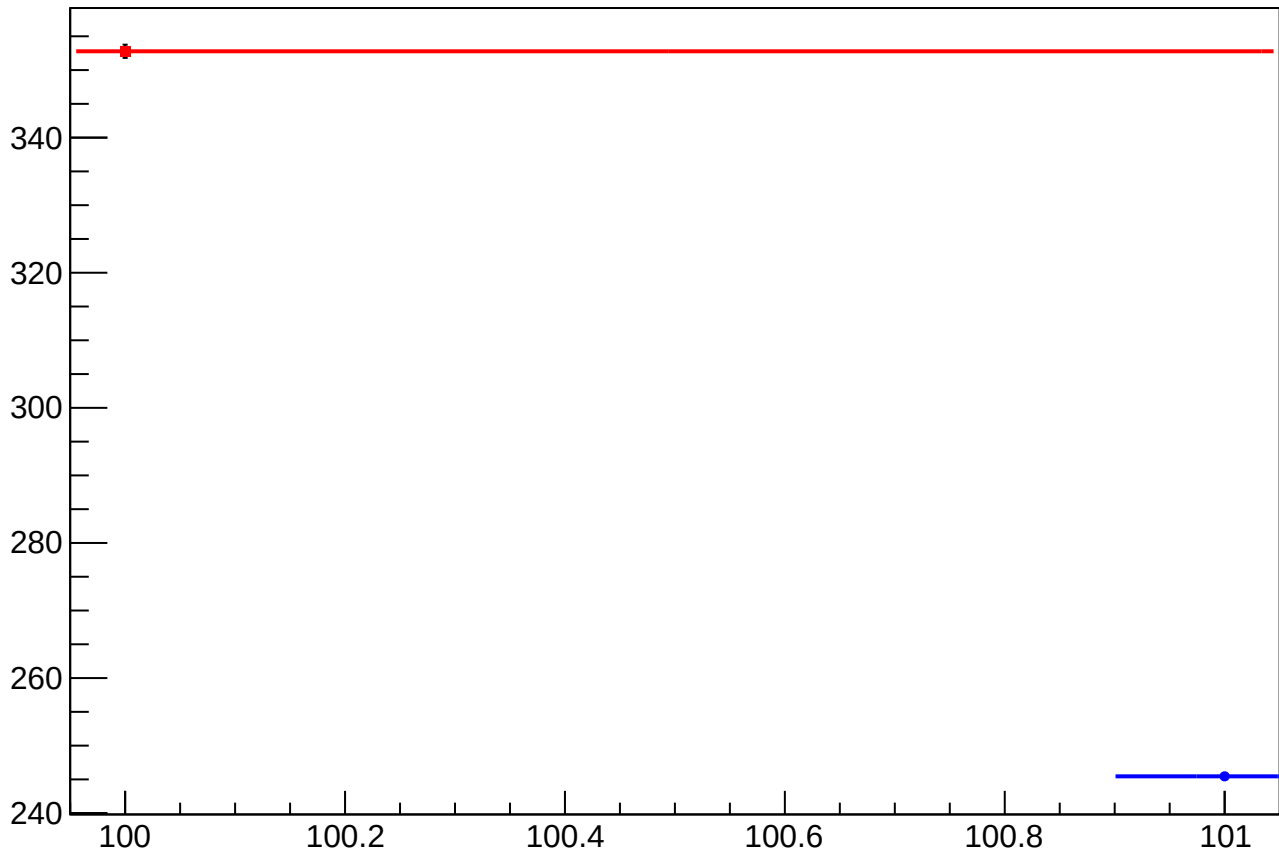
Right: -6492.871+/-299.283  $\chi^2/\text{NDF}$ : 22.6/1

In: -6808.103+/-306.531  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6492.871+/-299.283  $\chi^2/\text{NDF}$ : 22.6/1

# asym\_bpm0i02aWS\_rms vs Slug, Sign Corrected



Right In: 245.454+/-0.217  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 352.781+/-0.979  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

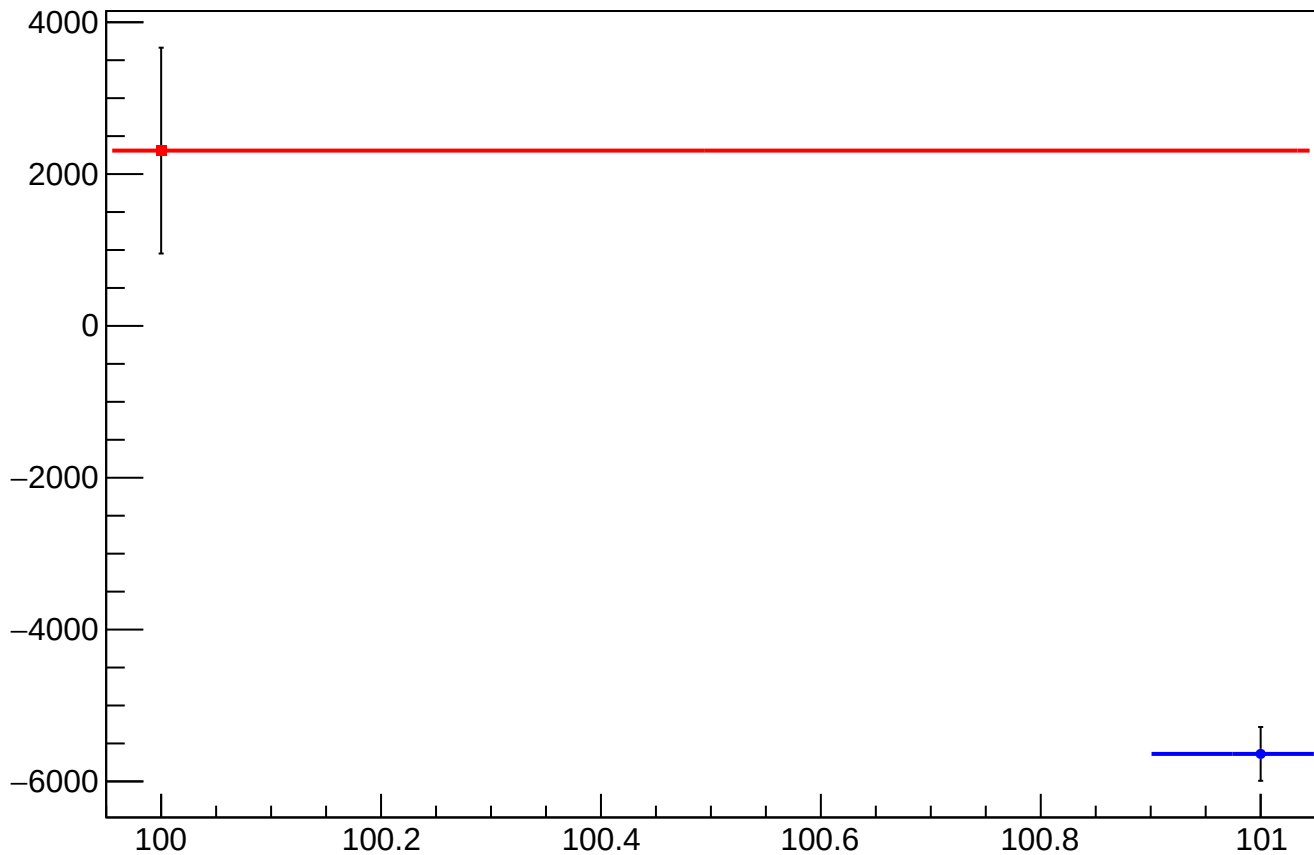
Right: 250.470+/-0.212  $\chi^2/\text{NDF}$ : 11457.9/1

In: 245.454+/-0.217  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 250.470+/-0.212  $\chi^2/\text{NDF}$ : 11457.9/1

# asym\_bpm0i05WS\_mean vs Slug, Sign Corrected



Right In: -5637.662+/-354.270  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2309.308+/-1355.713  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

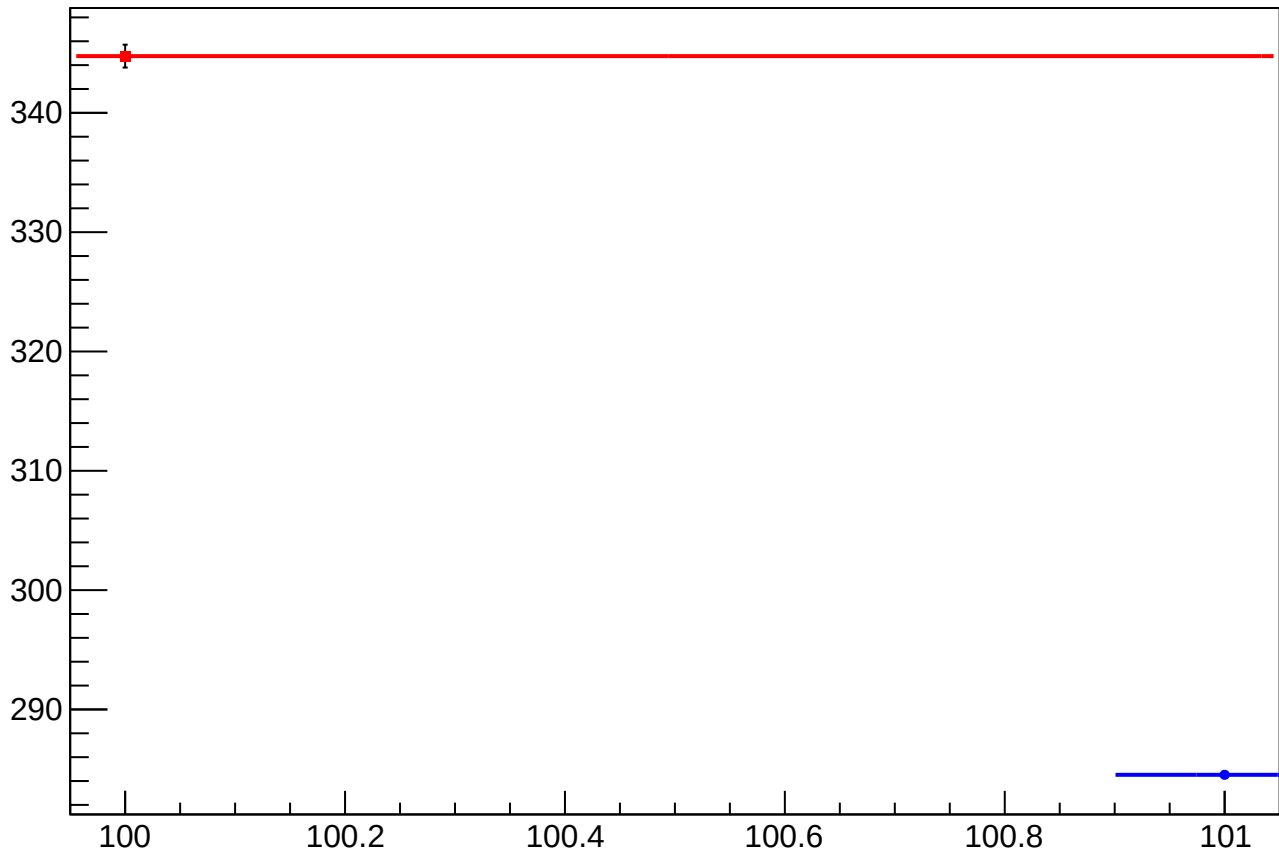
Right: -5129.682+/-342.760  $\chi^2/\text{NDF}$ : 32.2/1

In: -5637.662+/-354.270  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5129.682+/-342.760  $\chi^2/\text{NDF}$ : 32.2/1

# asym\_bpm0i05WS\_rms vs Slug, Sign Corrected



Right In: 284.522 $\pm$ 0.251  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 344.755 $\pm$ 0.959  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

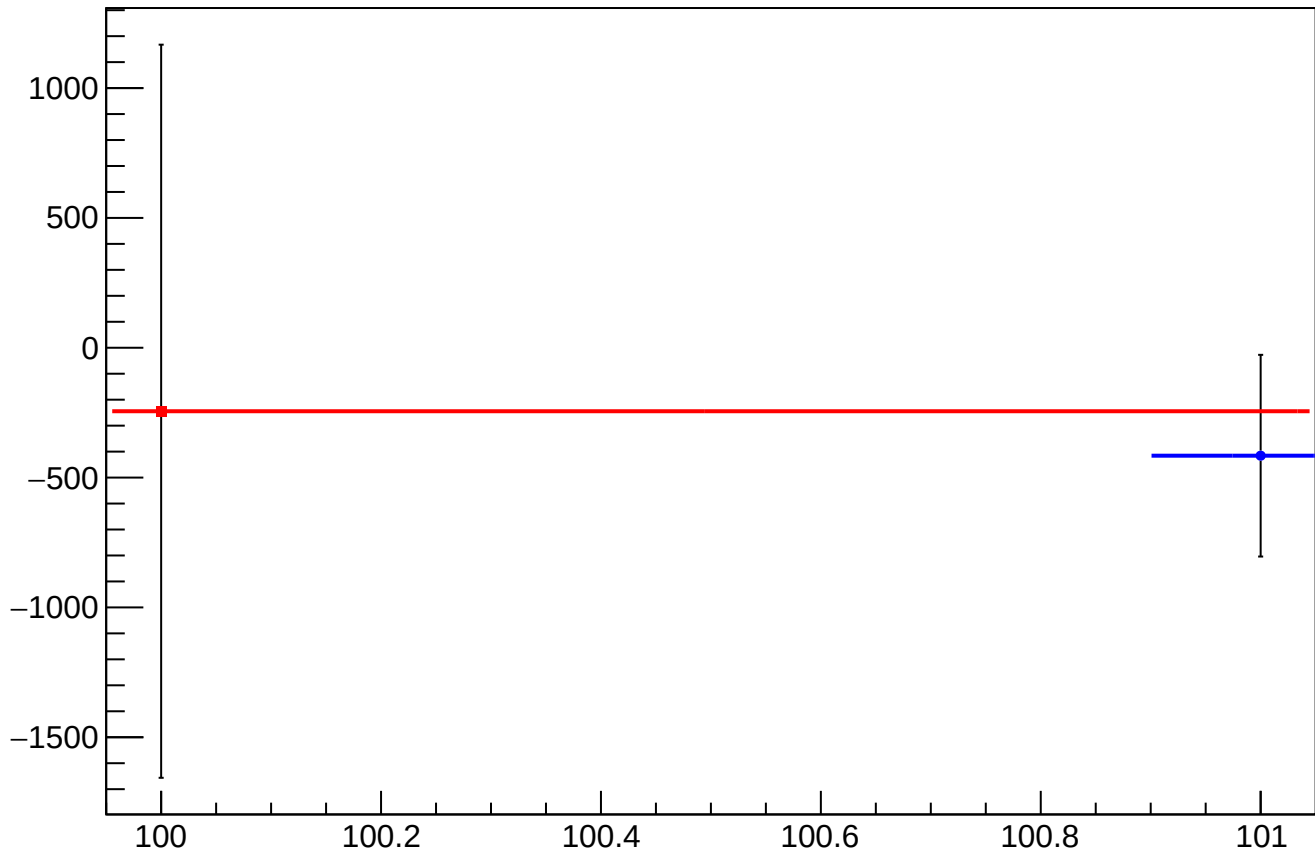
Right: 288.372 $\pm$ 0.242  $\chi^2$ /NDF: 3695.5/1

In: 284.522 $\pm$ 0.251  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 288.372 $\pm$ 0.242  $\chi^2$ /NDF: 3695.5/1

# asym\_bpm0i07WS\_mean vs Slug, Sign Corrected



Right In: -415.703+/-388.400  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -244.491+/-1411.699  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

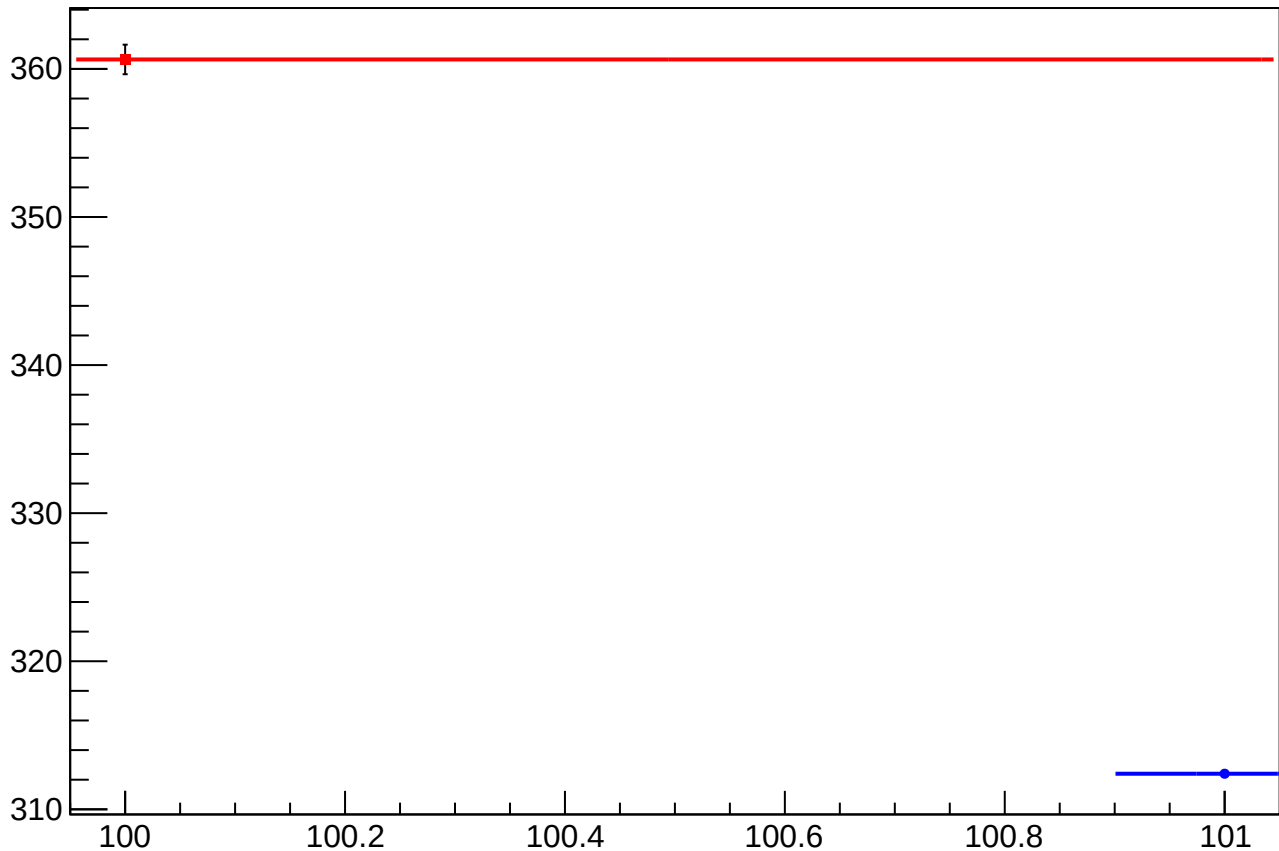
Right: -403.655+/-374.485  $\chi^2/\text{NDF}$ : 0.0/1

In: -415.703+/-388.400  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -403.655+/-374.485  $\chi^2/\text{NDF}$ : 0.0/1

# asym\_bpm0i07WS\_rms vs Slug, Sign Corrected



Right In: 312.404+/-0.275  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 360.639+/-0.998  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 315.798+/-0.265  $\chi^2/\text{NDF}$ : 2170.7/1

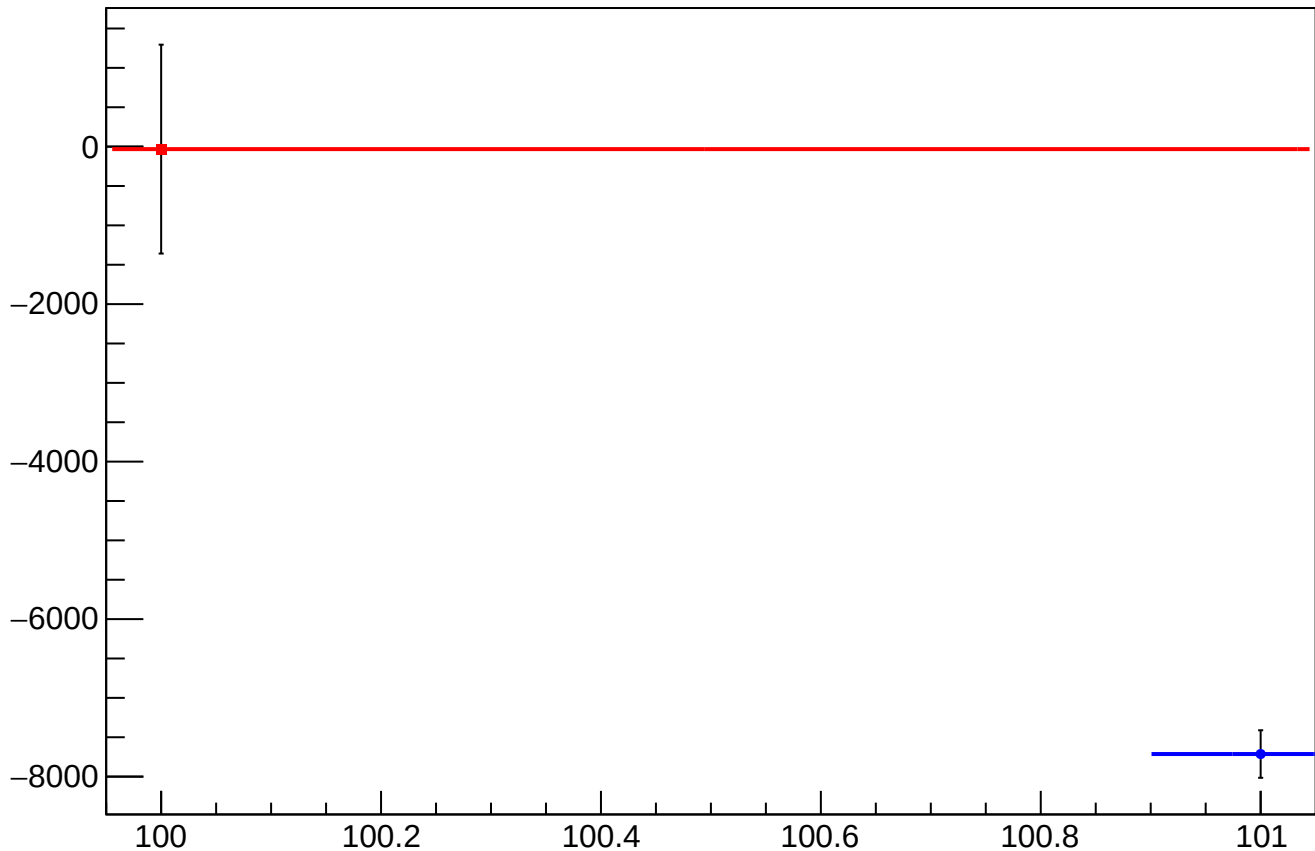
In: 312.404+/-0.275  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 315.798+/-0.265  $\chi^2/\text{NDF}$ : 2170.7/1



# asym\_bpm1i02WS\_mean vs Slug, Sign Corrected



Right In: -7713.224+/-301.805  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -31.718+/-1326.285  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

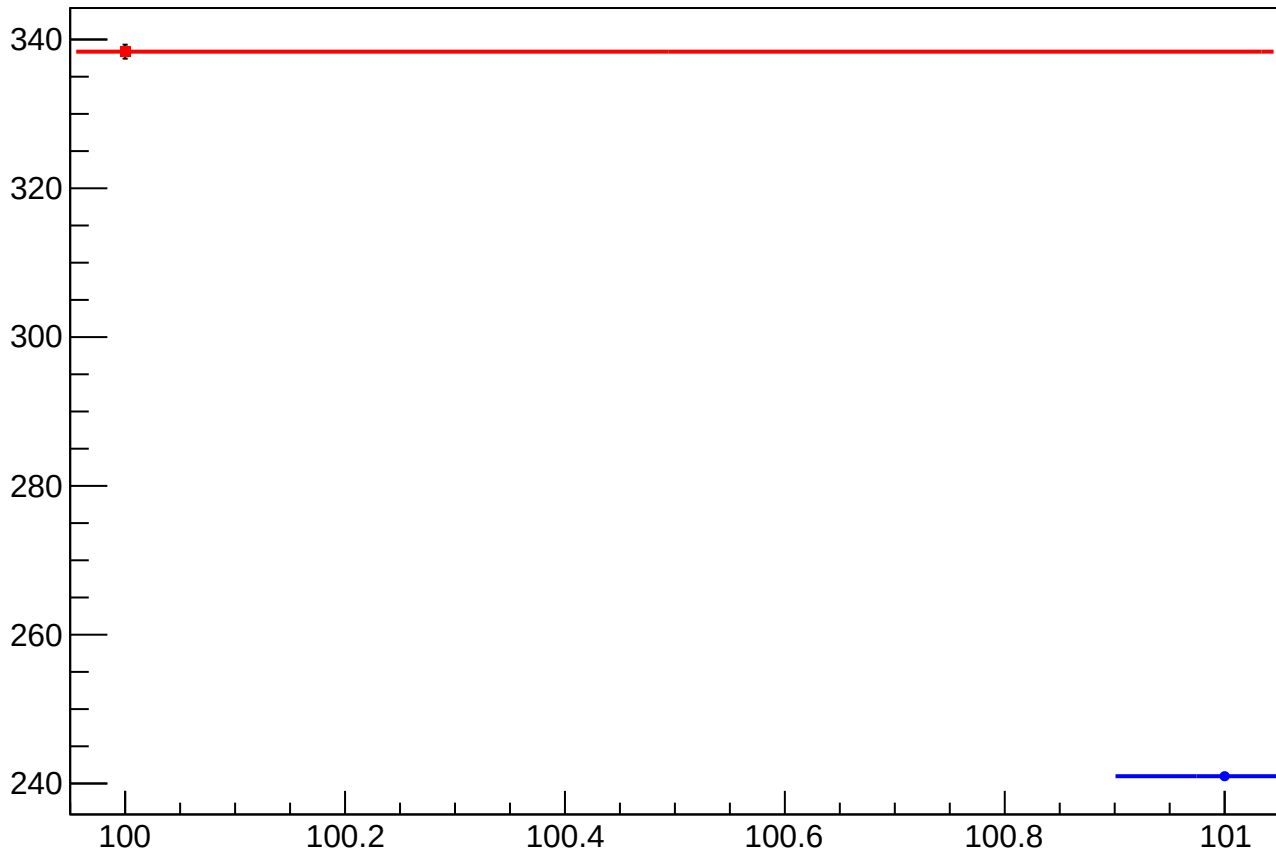
Right: -7335.042+/-294.282  $\chi^2/\text{NDF}$ : 31.9/1

In: -7713.224+/-301.805  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7335.042+/-294.282  $\chi^2/\text{NDF}$ : 31.9/1

# asym\_bpm1i02WS\_rms vs Slug, Sign Corrected



Right In: 240.979+/-0.213  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 338.367+/-0.938  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

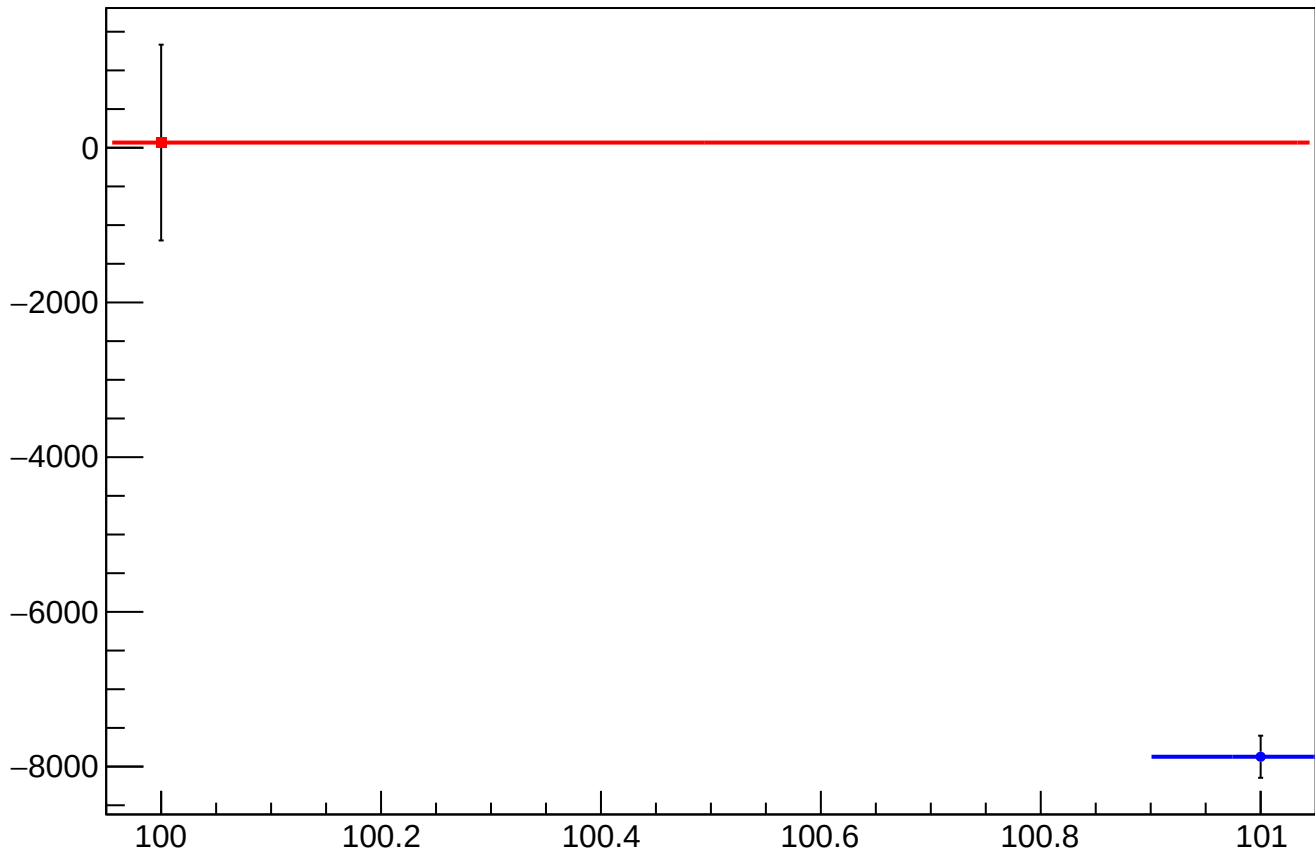
Right: 245.774+/-0.208  $\chi^2/\text{NDF}$ : 10252.6/1

In: 240.979+/-0.213  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 245.774+/-0.208  $\chi^2/\text{NDF}$ : 10252.6/1

# asym\_bpm1i04WS\_mean vs Slug, Sign Corrected



Right In: -7872.726+/-272.183  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 67.020+/-1265.554  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

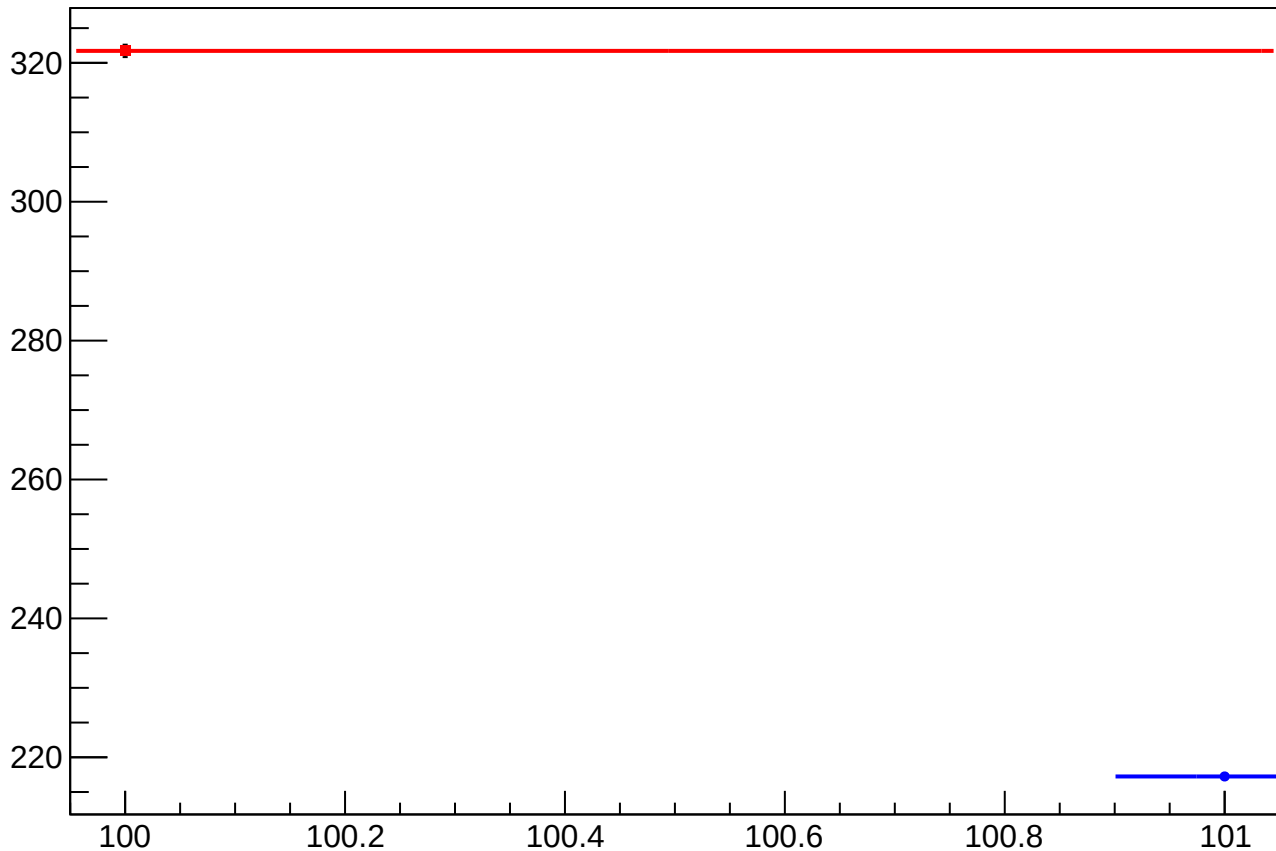
Right: -7521.708+/-266.098  $\chi^2/\text{NDF}$ : 37.6/1

In: -7872.726+/-272.183  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7521.708+/-266.098  $\chi^2/\text{NDF}$ : 37.6/1

# asym\_bpm1i04WS\_rms vs Slug, Sign Corrected



Right In: 217.239 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 321.723 $\pm$ 0.895  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

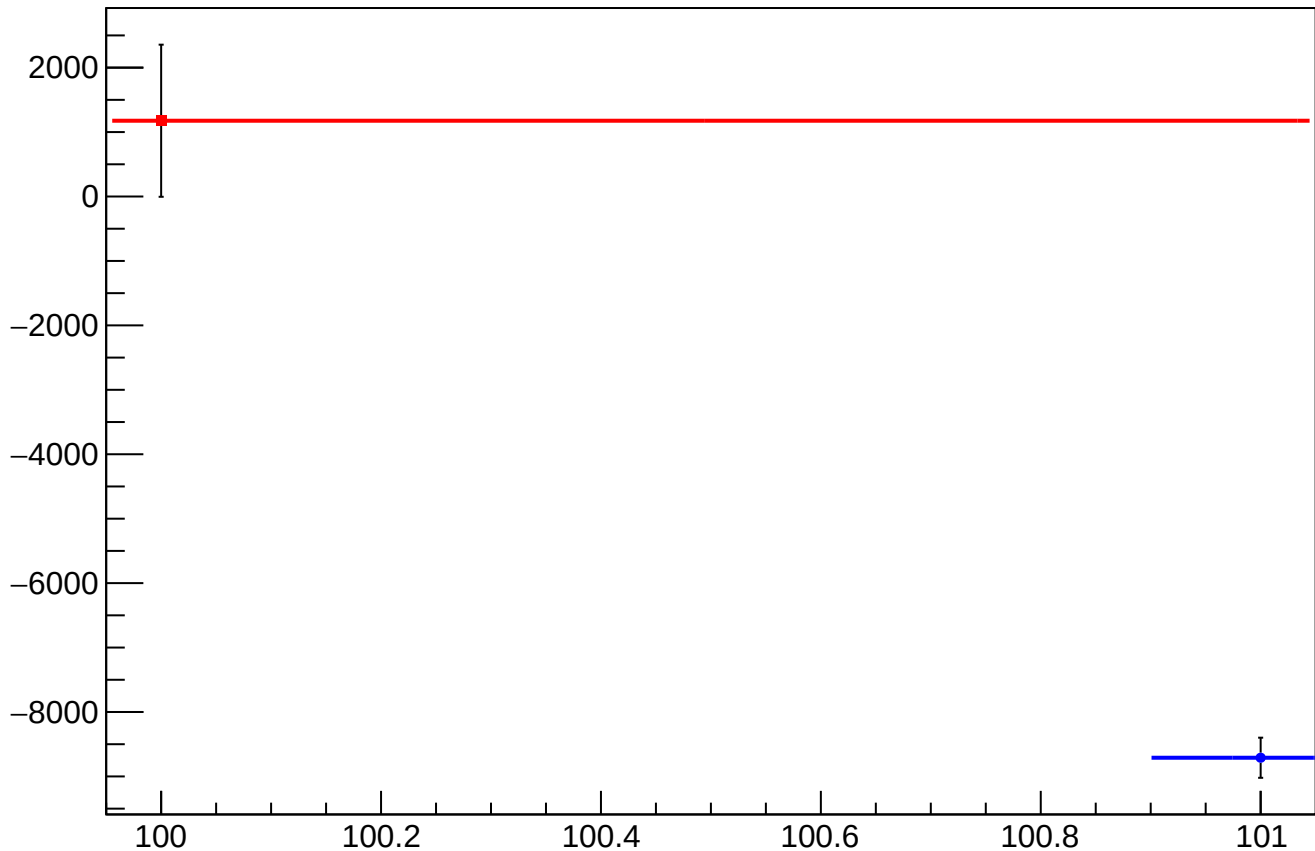
Right: 221.858 $\pm$ 0.188  $\chi^2$ /NDF: 13029.5/1

In: 217.239 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 221.858 $\pm$ 0.188  $\chi^2$ /NDF: 13029.5/1

# asym\_bpm1i06WS\_mean vs Slug, Sign Corrected



Right In: -8709.959+/-311.315  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1175.950+/-1180.395  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

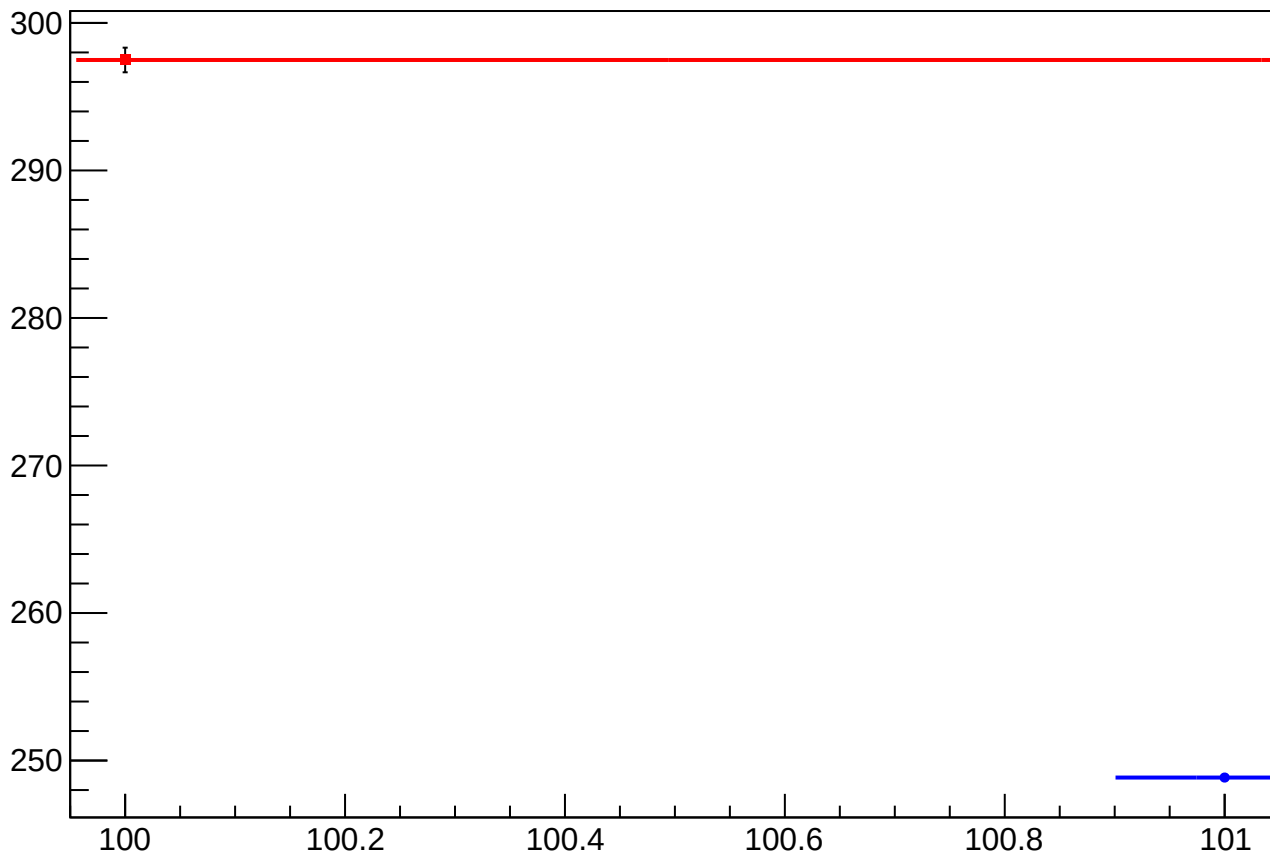
Right: -8067.038+/-301.022  $\chi^2$ /NDF: 65.6/1

In: -8709.959+/-311.315  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -8067.038+/-301.022  $\chi^2$ /NDF: 65.6/1

# asym\_bpm1i06WS\_rms vs Slug, Sign Corrected



Right In: 248.847 $\pm$ 0.220  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 297.489 $\pm$ 0.835  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

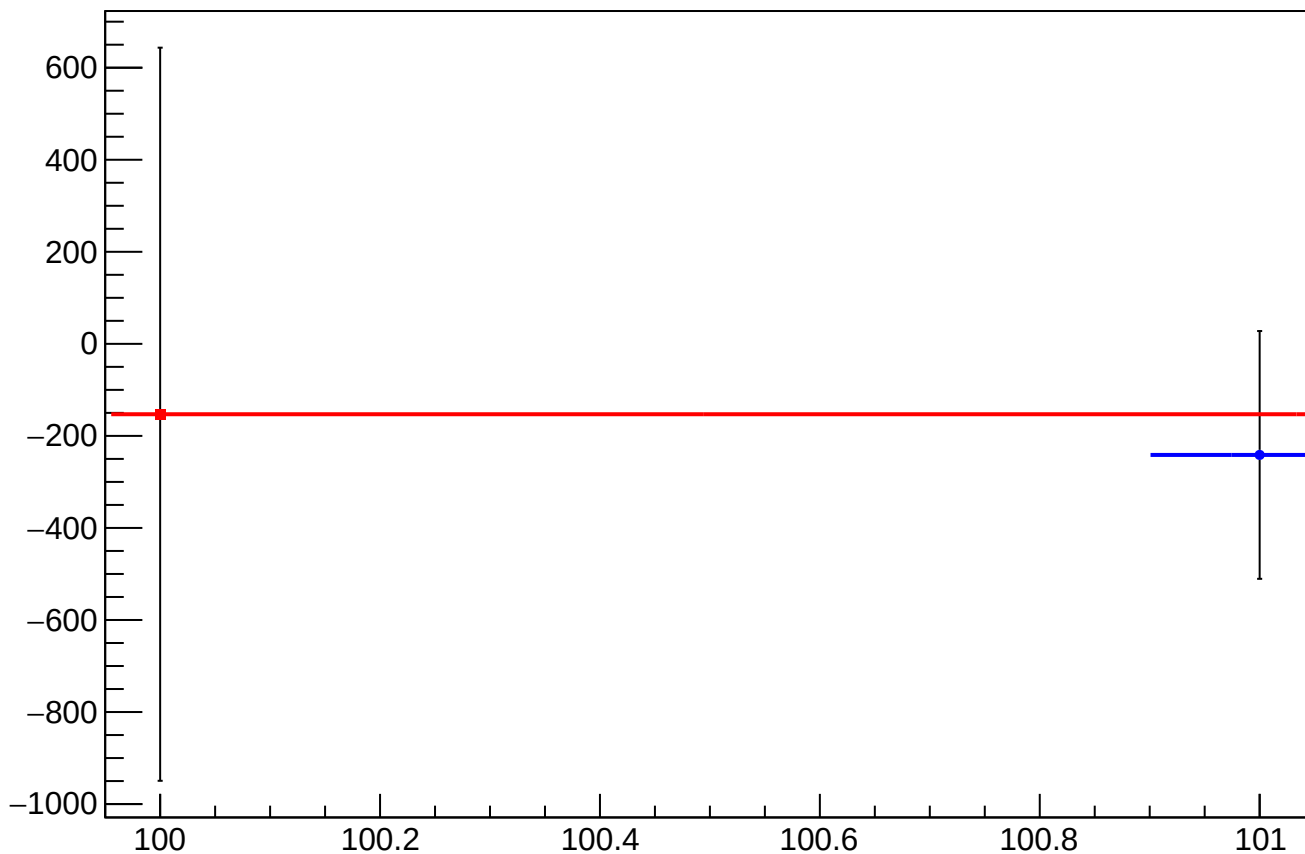
Right: 252.010 $\pm$ 0.213  $\chi^2$ /NDF: 3175.4/1

In: 248.847 $\pm$ 0.220  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 252.010 $\pm$ 0.213  $\chi^2$ /NDF: 3175.4/1

asym\_bcm\_2an\_us\_an\_ds\_avg\_mean vs Slug, Sign Corrected



Right In: -241.364+/-269.210  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -152.938+/-796.487  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

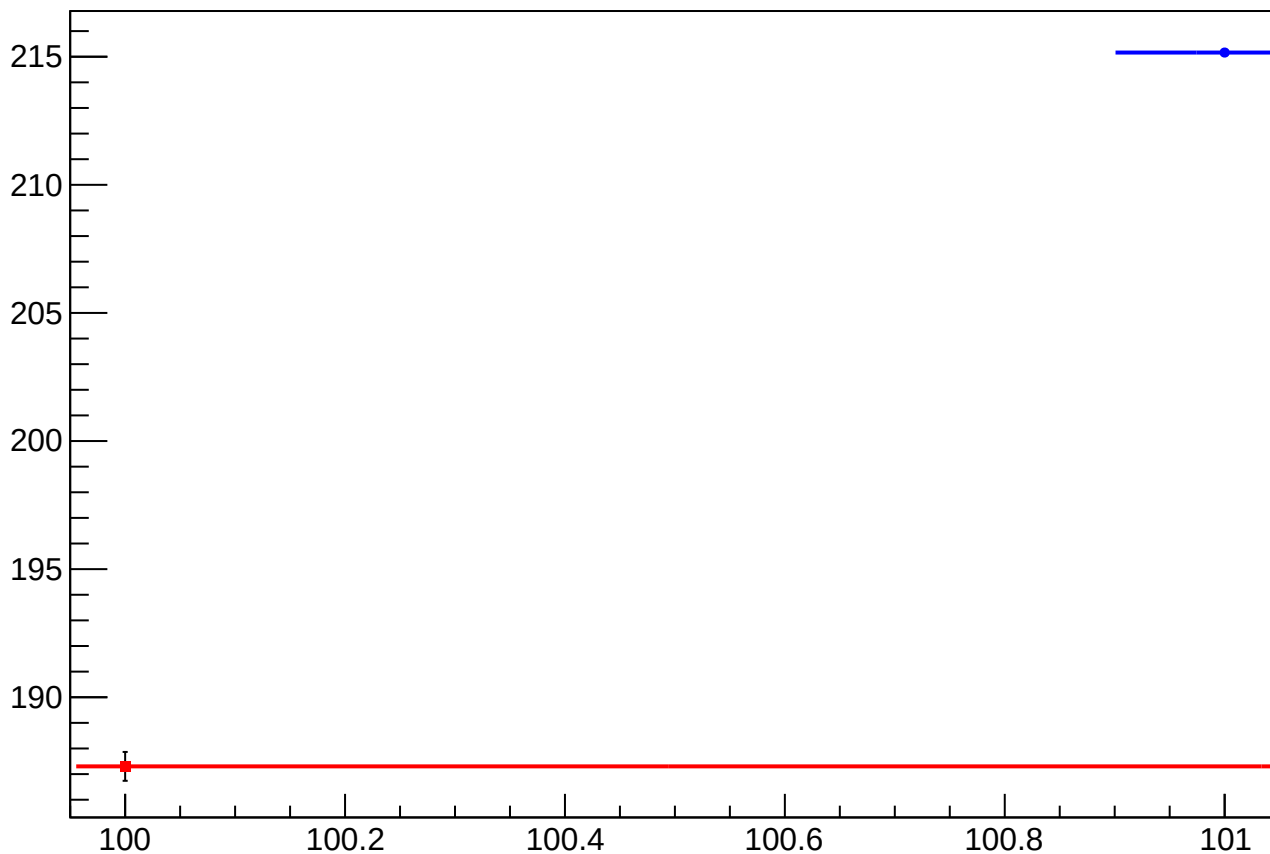
Right: -232.298+/-255.036  $\chi^2/\text{NDF}$ : 0.0/1

In: -241.364+/-269.210  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -232.298+/-255.036  $\chi^2/\text{NDF}$ : 0.0/1

asym\_bcm\_2an\_us\_an\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 215.163 $\pm$ 0.190  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 187.302 $\pm$ 0.563  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 212.306 $\pm$ 0.180  $\chi^2/\text{NDF}$ : 2196.3/1

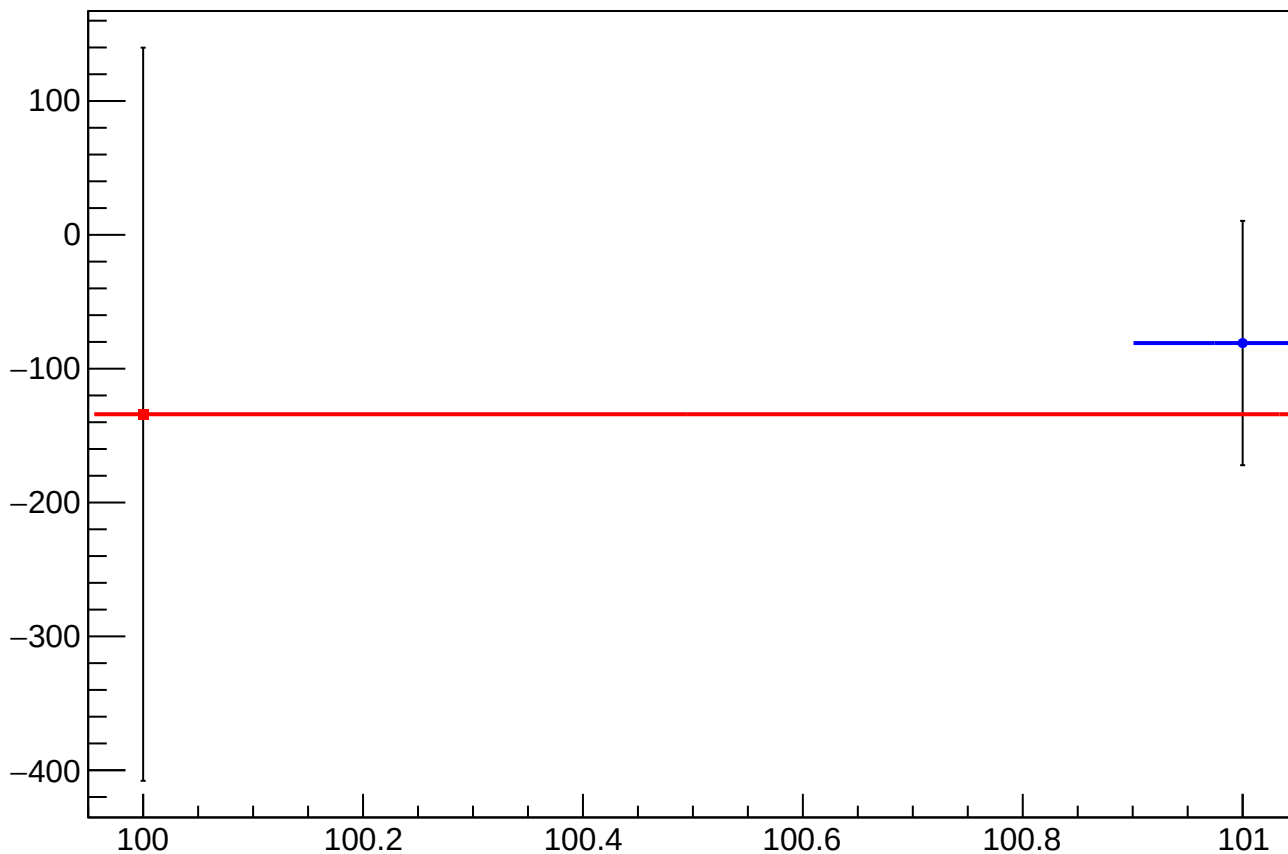
In: 215.163 $\pm$ 0.190  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 212.306 $\pm$ 0.180  $\chi^2/\text{NDF}$ : 2196.3/1



asym\_bcm\_2an\_us\_an\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: -80.847+/-91.270  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -134.027+/-273.879  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

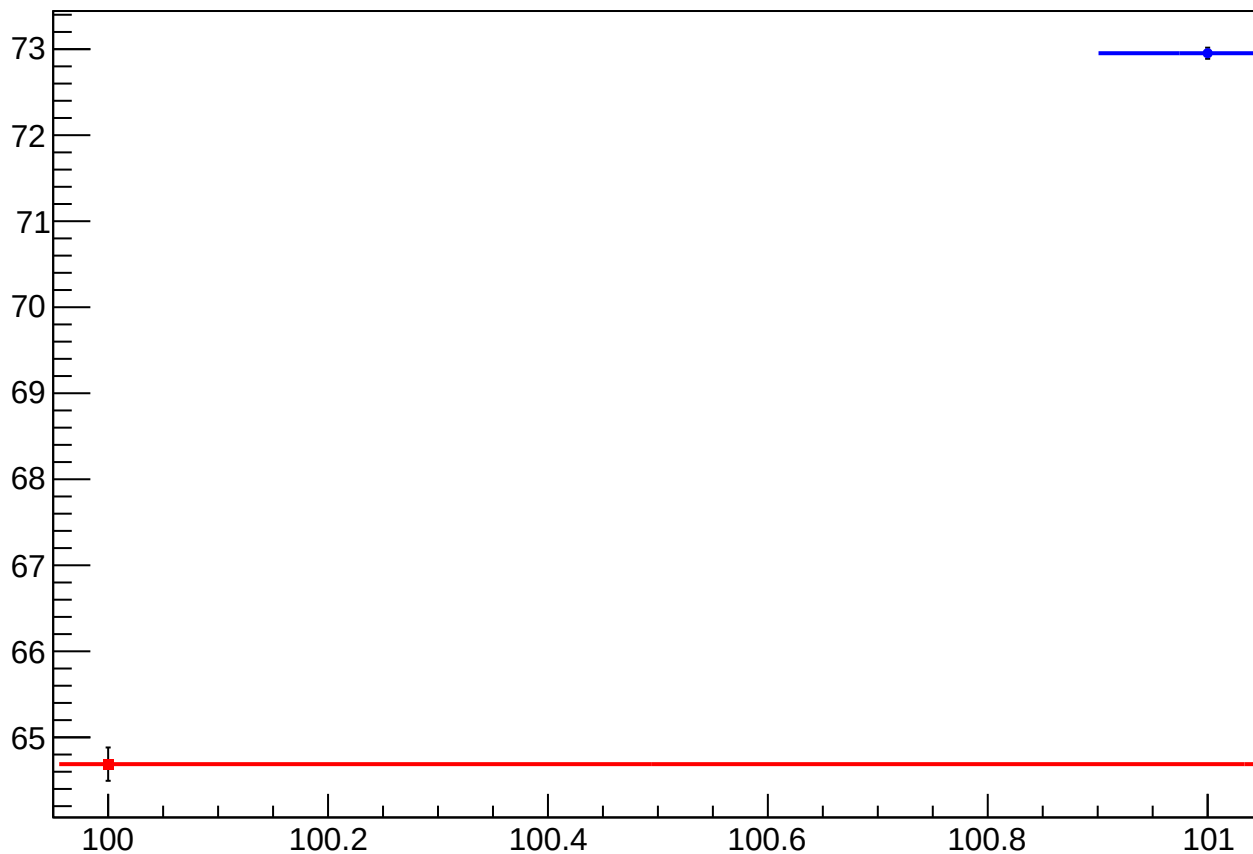
Right: -86.163+/-86.589  $\chi^2/\text{NDF}$ : 0.0/1

In: -80.847+/-91.270  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -86.163+/-86.589  $\chi^2/\text{NDF}$ : 0.0/1

asym\_bcm\_2an\_us\_an\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 72.953 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.688 $\pm$ 0.194  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

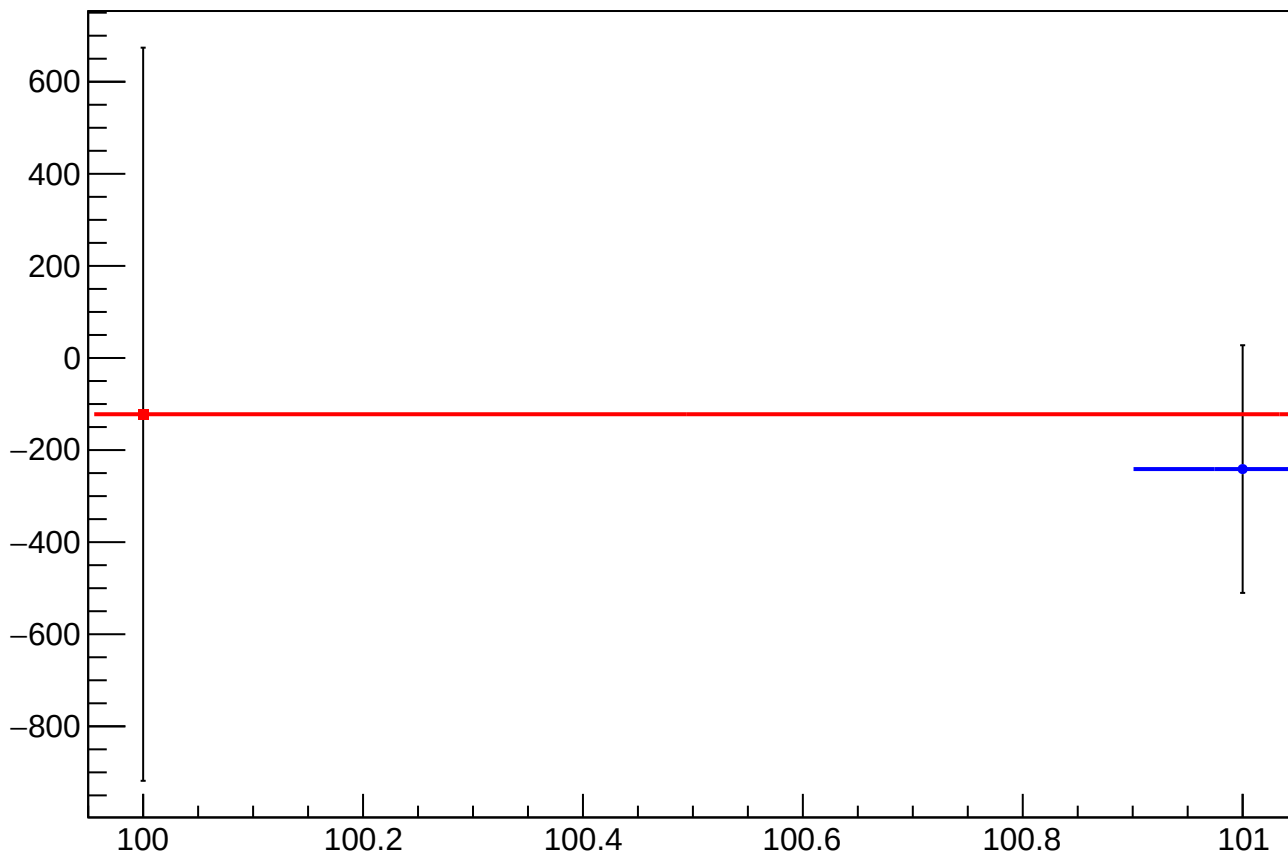
Right: 72.127 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 1639.1/1

In: 72.953 $\pm$ 0.065  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 72.127 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 1639.1/1

asym\_bcm\_an\_us\_an\_ds\_avg\_mean vs Slug, Sign Corrected



Right In: -241.255+/-268.952  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -122.162+/-796.158  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

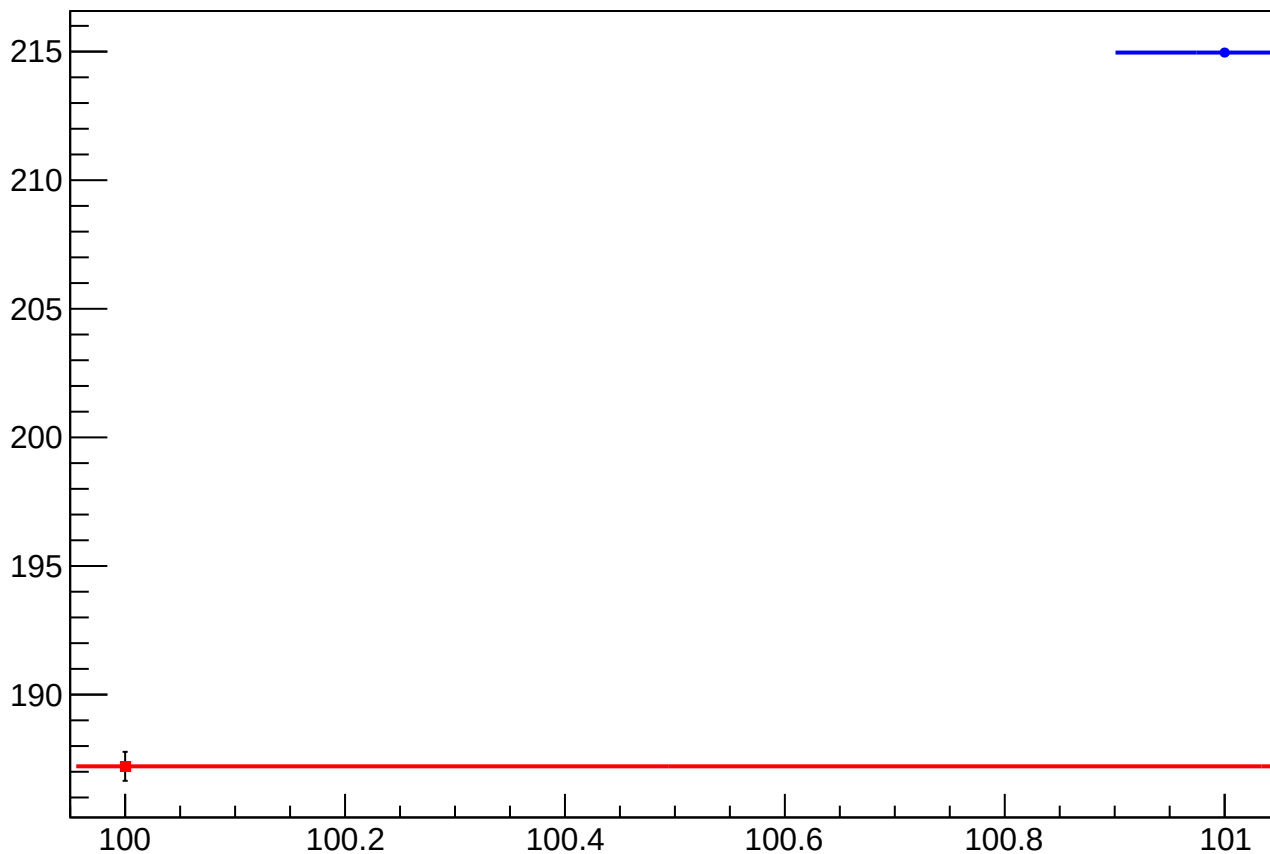
Right: -229.056+/-254.806  $\chi^2/\text{NDF}$ : 0.0/1

In: -241.255+/-268.952  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -229.056+/-254.806  $\chi^2/\text{NDF}$ : 0.0/1

asym\_bcm\_an\_us\_an\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 214.962 $\pm$ 0.190  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 187.212 $\pm$ 0.563  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

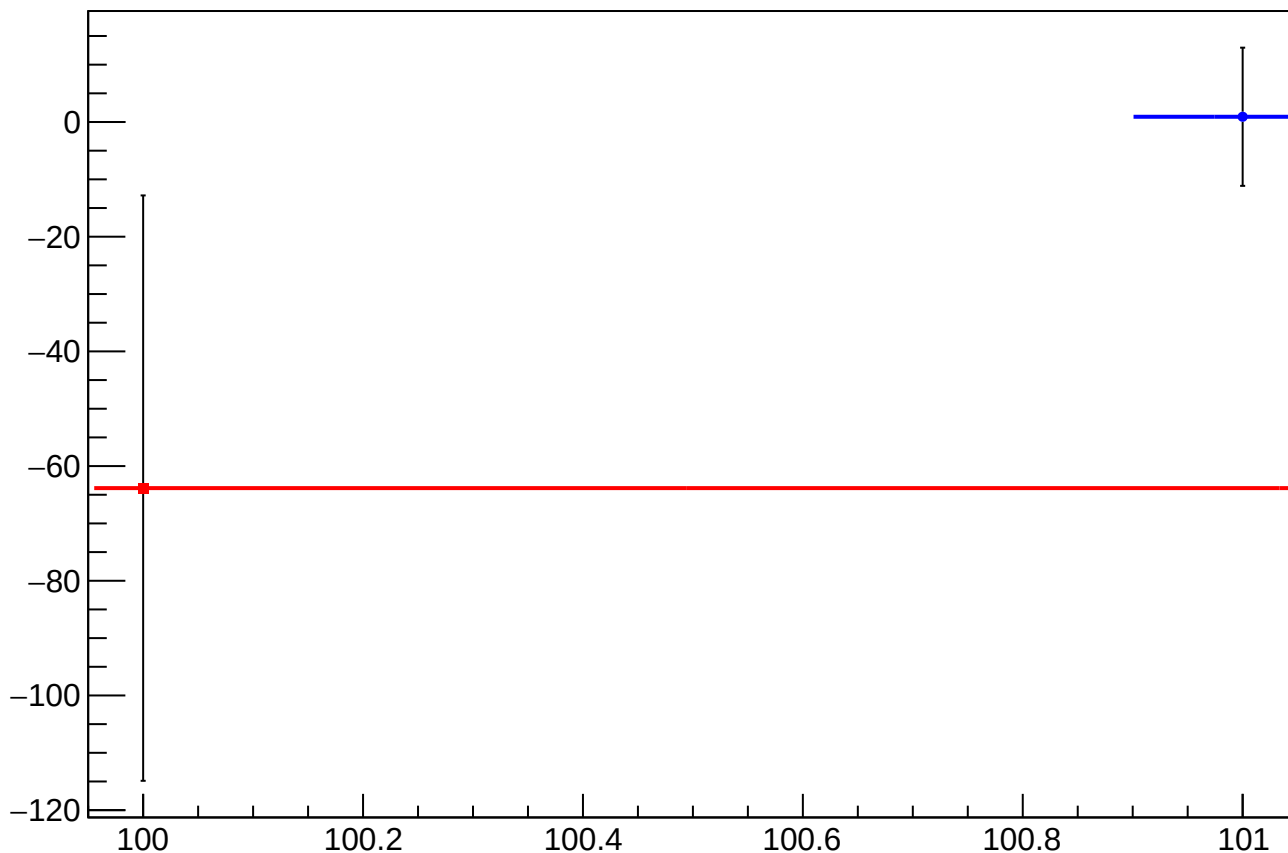
Right: 212.120 $\pm$ 0.180  $\chi^2$ /NDF: 2180.9/1

In: 214.962 $\pm$ 0.190  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 212.120 $\pm$ 0.180  $\chi^2$ /NDF: 2180.9/1

asym\_bcm\_an\_us\_an\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: 0.914 $\pm$ 12.049  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -63.842 $\pm$ 51.039  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

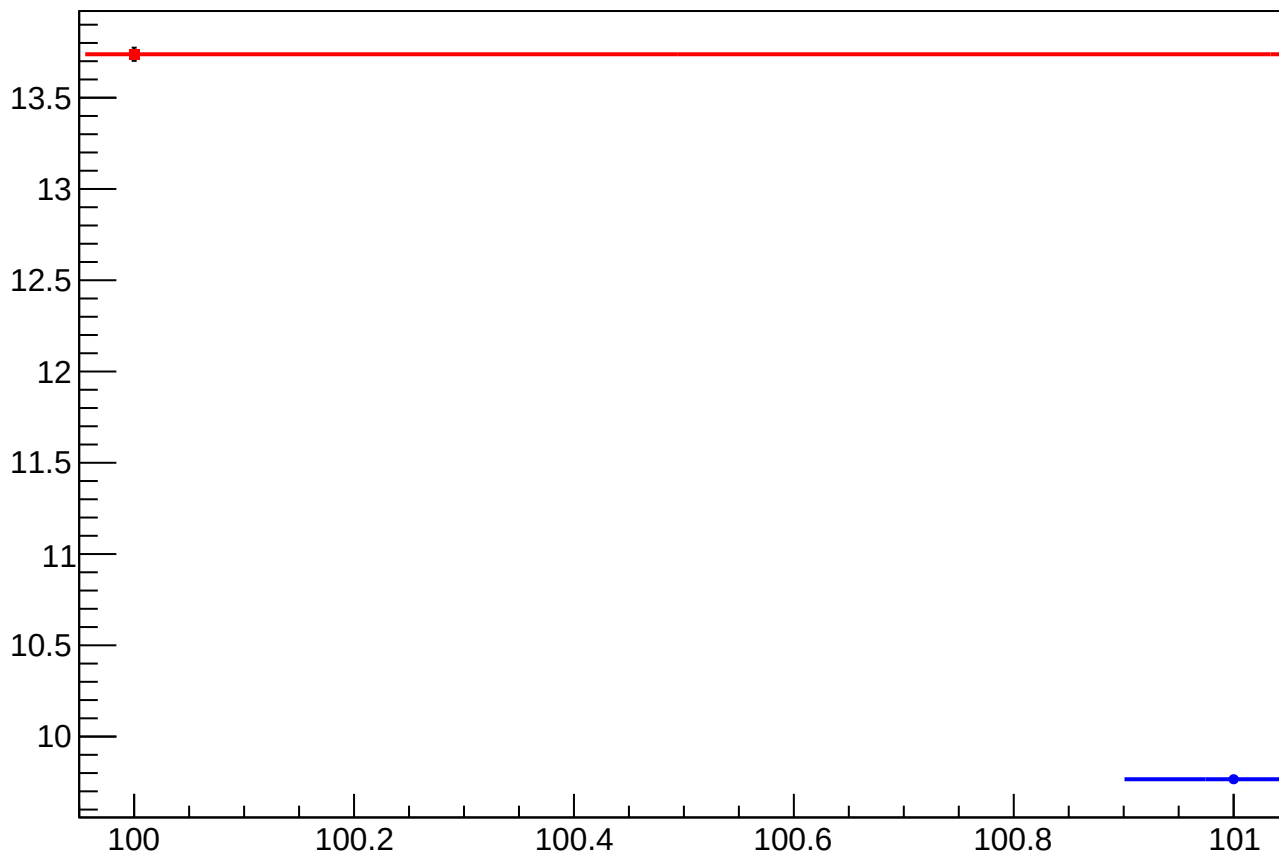
Right: -2.504 $\pm$ 11.726  $\chi^2$ /NDF: 1.5/1

In: 0.914 $\pm$ 12.049  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.504 $\pm$ 11.726  $\chi^2$ /NDF: 1.5/1

asym\_bcm\_an\_us\_an\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 9.766 $\pm$ 0.009  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.738 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

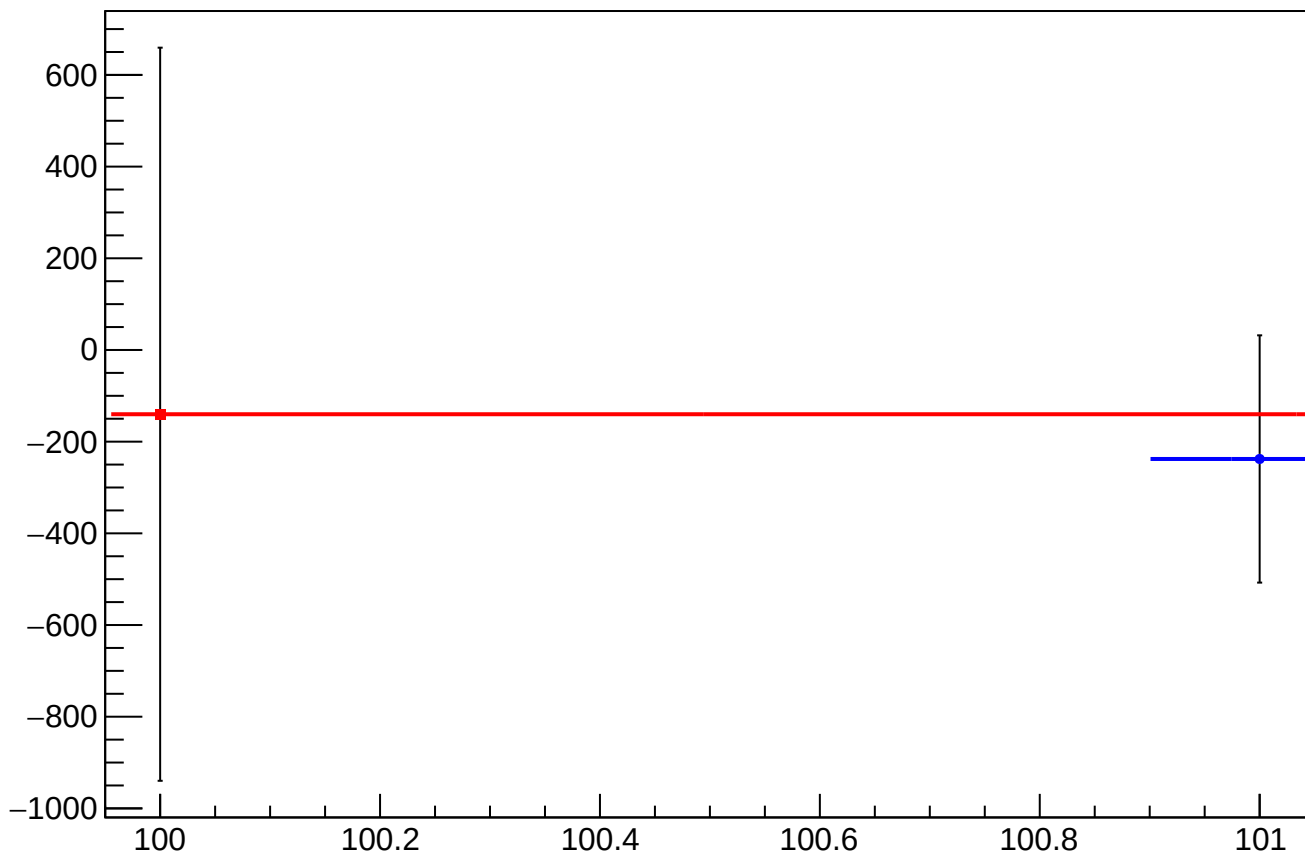
Right: 9.976 $\pm$ 0.008  $\chi^2$ /NDF: 11472.7/1

In: 9.766 $\pm$ 0.009  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.976 $\pm$ 0.008  $\chi^2$ /NDF: 11472.7/1

asym\_bcm\_an\_us\_an\_ds3\_avg\_mean vs Slug, Sign Corrected



Right In: -237.777 $\pm$ 269.707  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -140.181 $\pm$ 799.631  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

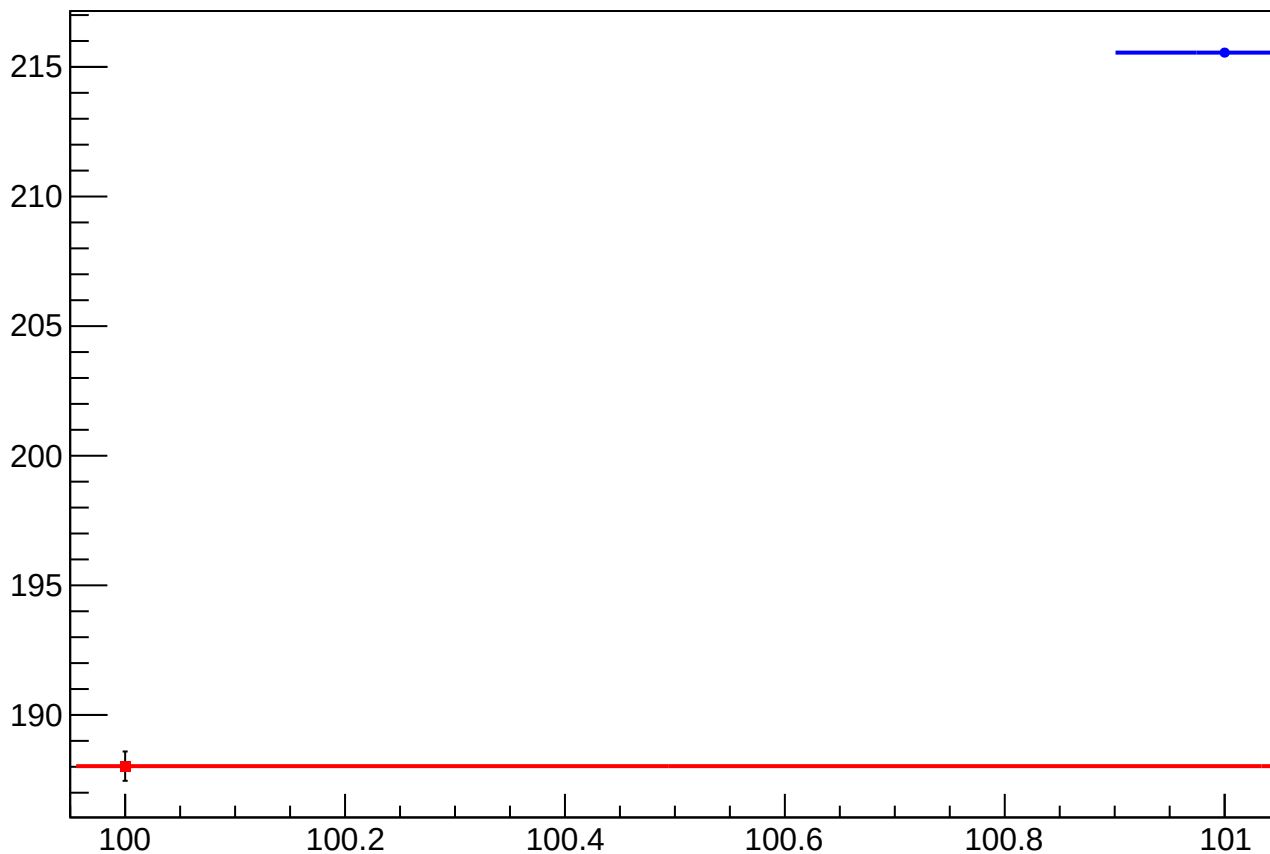
Right: -227.808 $\pm$ 255.561  $\chi^2/\text{NDF}$ : 0.0/1

In: -237.777 $\pm$ 269.707  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -227.808 $\pm$ 255.561  $\chi^2/\text{NDF}$ : 0.0/1

asym\_bcm\_an\_us\_an\_ds3\_avg\_rms vs Slug, Sign Corrected



Right In: 215.552 $\pm$ 0.191  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 188.025 $\pm$ 0.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 212.740 $\pm$ 0.181  $\chi^2$ /NDF: 2127.9/1

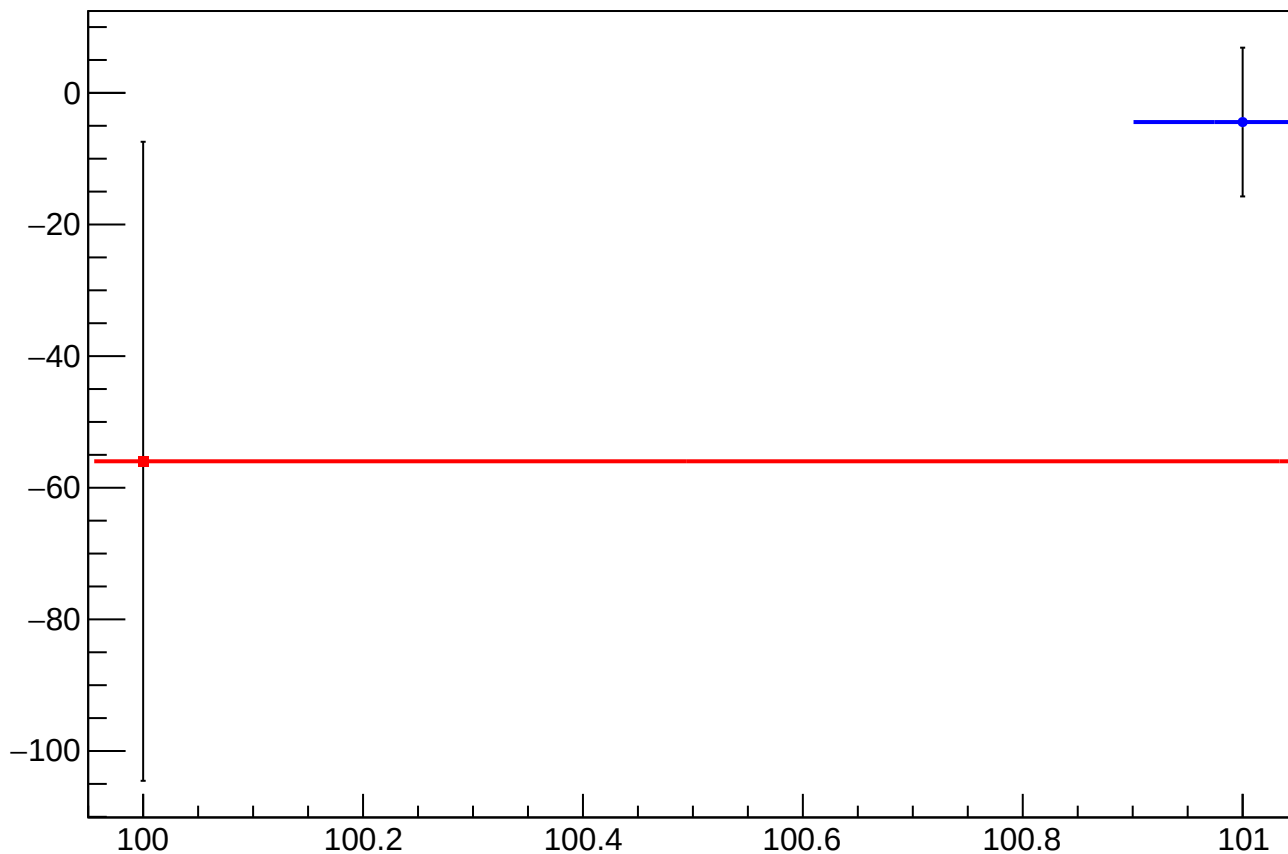
In: 215.552 $\pm$ 0.191  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 212.740 $\pm$ 0.181  $\chi^2$ /NDF: 2127.9/1



asym\_bcm\_an\_us\_an\_ds3\_dd\_mean vs Slug, Sign Corrected



Right In: -4.432+/-11.302  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -55.979+/-48.549  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

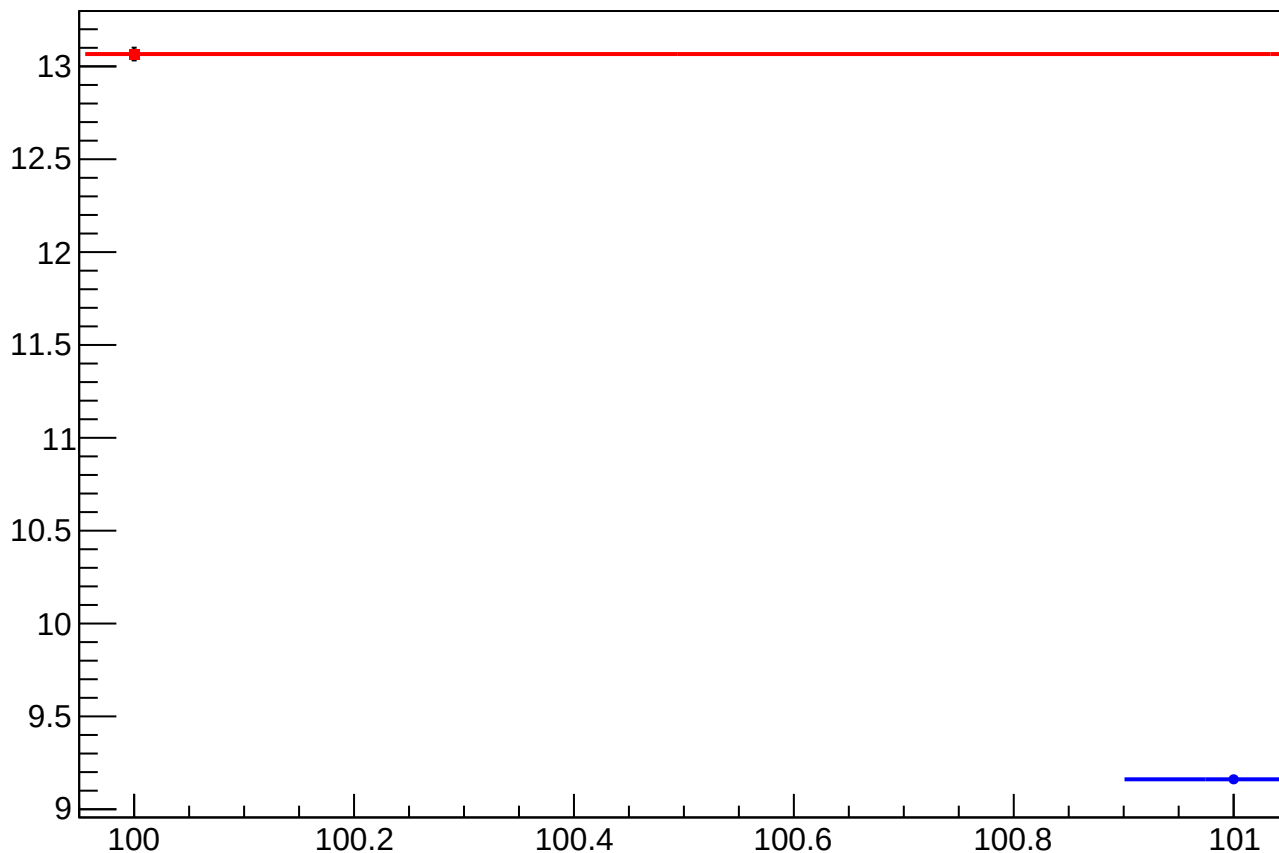
Right: -7.082+/-11.008  $\chi^2/\text{NDF}$ : 1.1/1

In: -4.432+/-11.302  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.082+/-11.008  $\chi^2/\text{NDF}$ : 1.1/1

asym\_bcm\_an\_us\_an\_ds3\_dd\_rms vs Slug, Sign Corrected



Right In: 9.161 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.066 $\pm$ 0.034  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

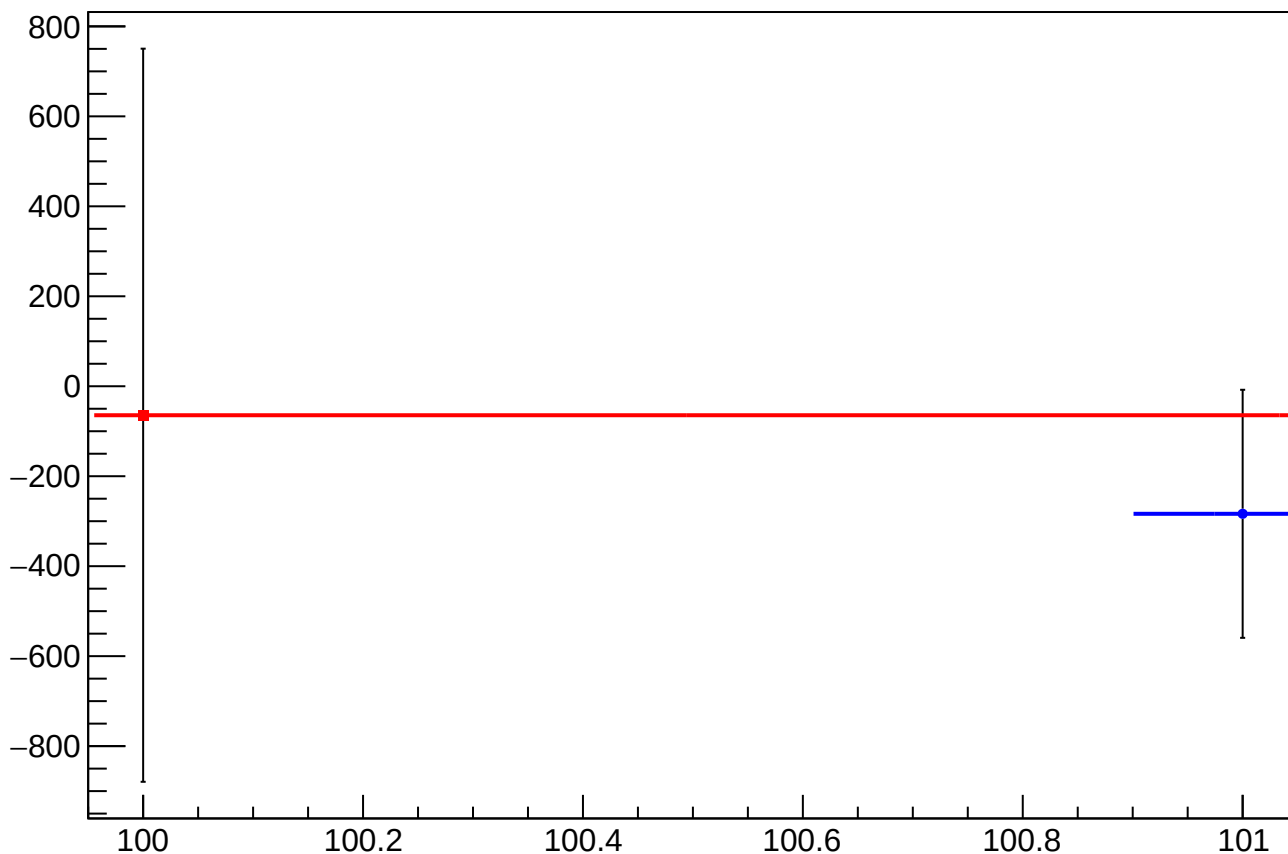
Right: 9.362 $\pm$ 0.008  $\chi^2$ /NDF: 12275.4/1

In: 9.161 $\pm$ 0.008  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.362 $\pm$ 0.008  $\chi^2$ /NDF: 12275.4/1

asym\_bcm\_dg\_us\_dg\_ds\_avg\_mean vs Slug, Sign Corrected



Right In: -283.563+/-275.717  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -64.437+/-814.875  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

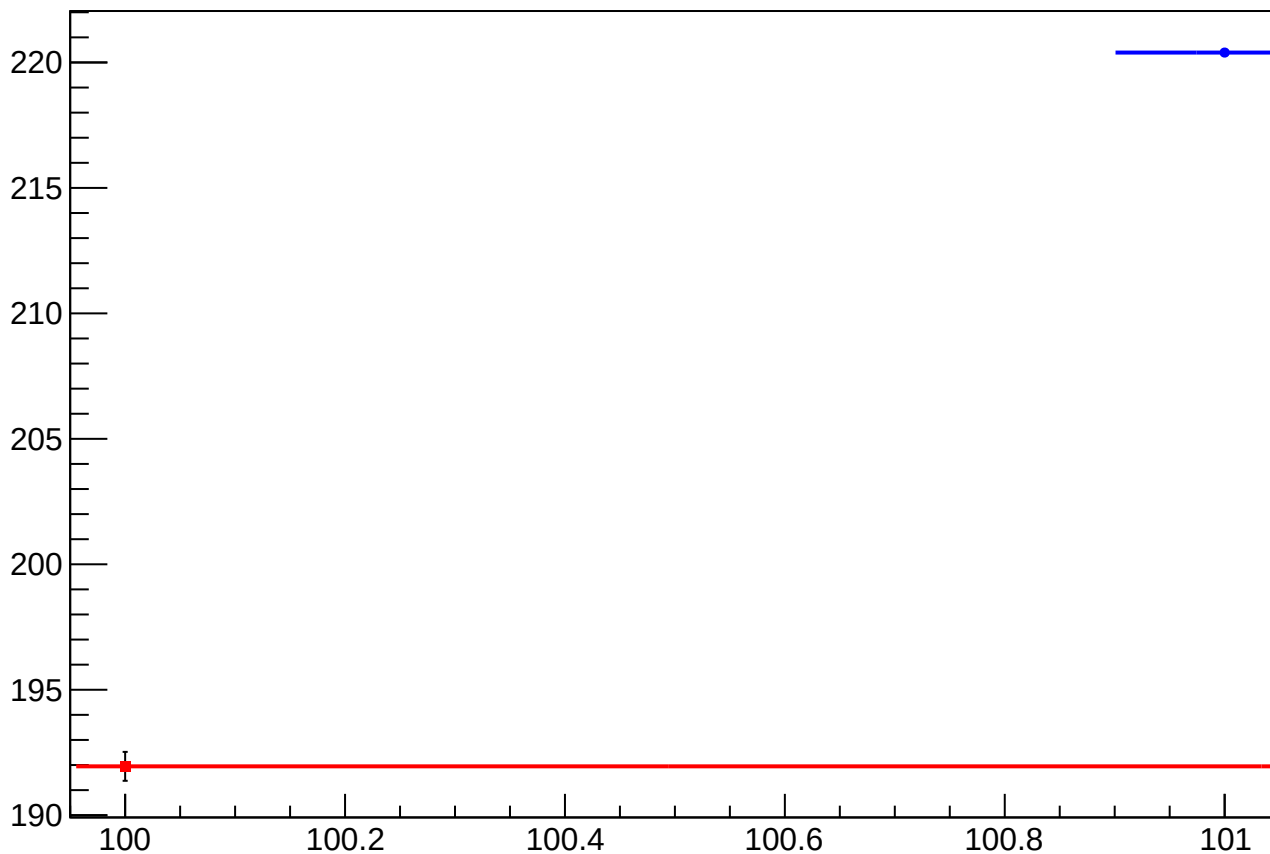
Right: -261.054+/-261.172  $\chi^2/\text{NDF}$ : 0.1/1

In: -283.563+/-275.717  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -261.054+/-261.172  $\chi^2/\text{NDF}$ : 0.1/1

asym\_bcm\_dg\_us\_dg\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 220.394 $\pm$ 0.195  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 191.948 $\pm$ 0.576  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

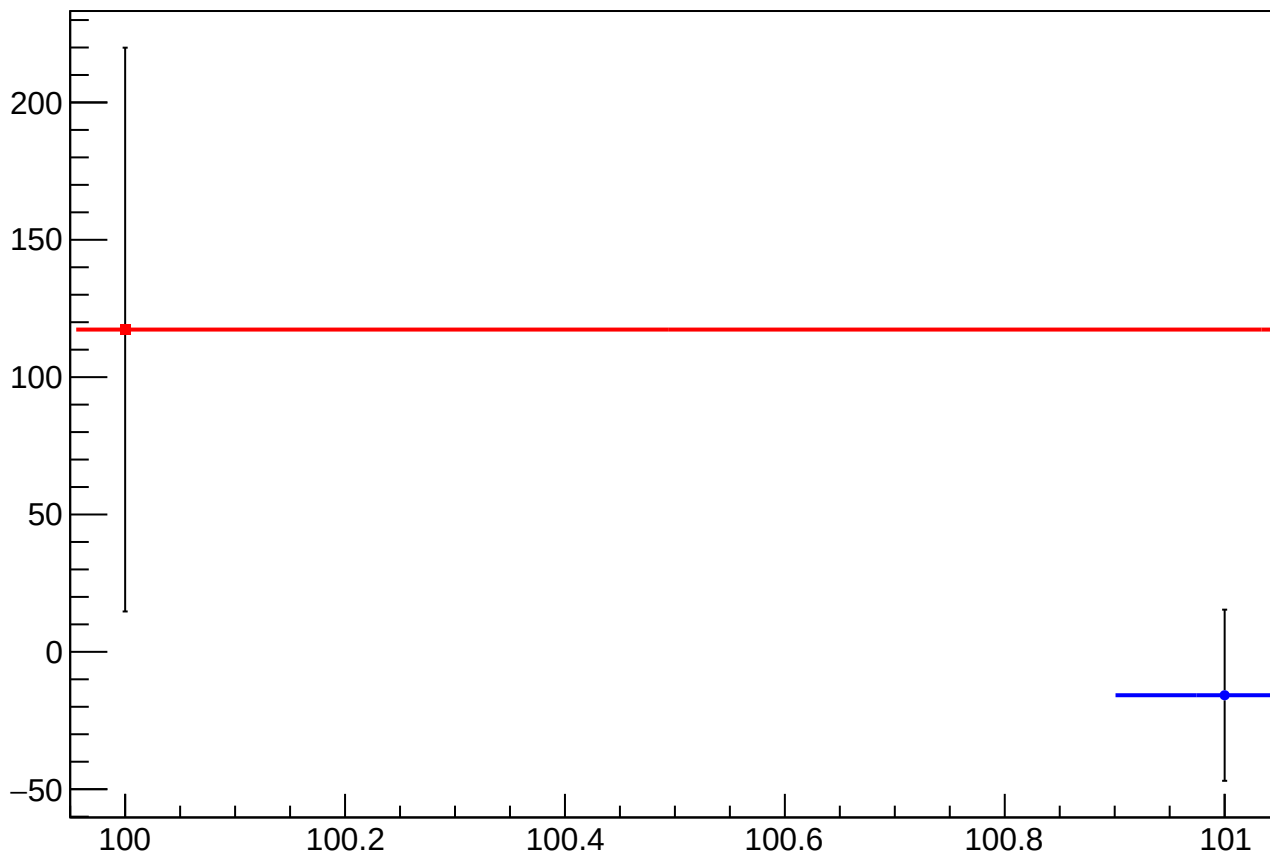
Right: 217.472 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 2186.9/1

In: 220.394 $\pm$ 0.195  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 217.472 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 2186.9/1

asym\_bcm\_dg\_us\_dg\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: -15.794+/-31.151  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 117.321+/-102.621  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

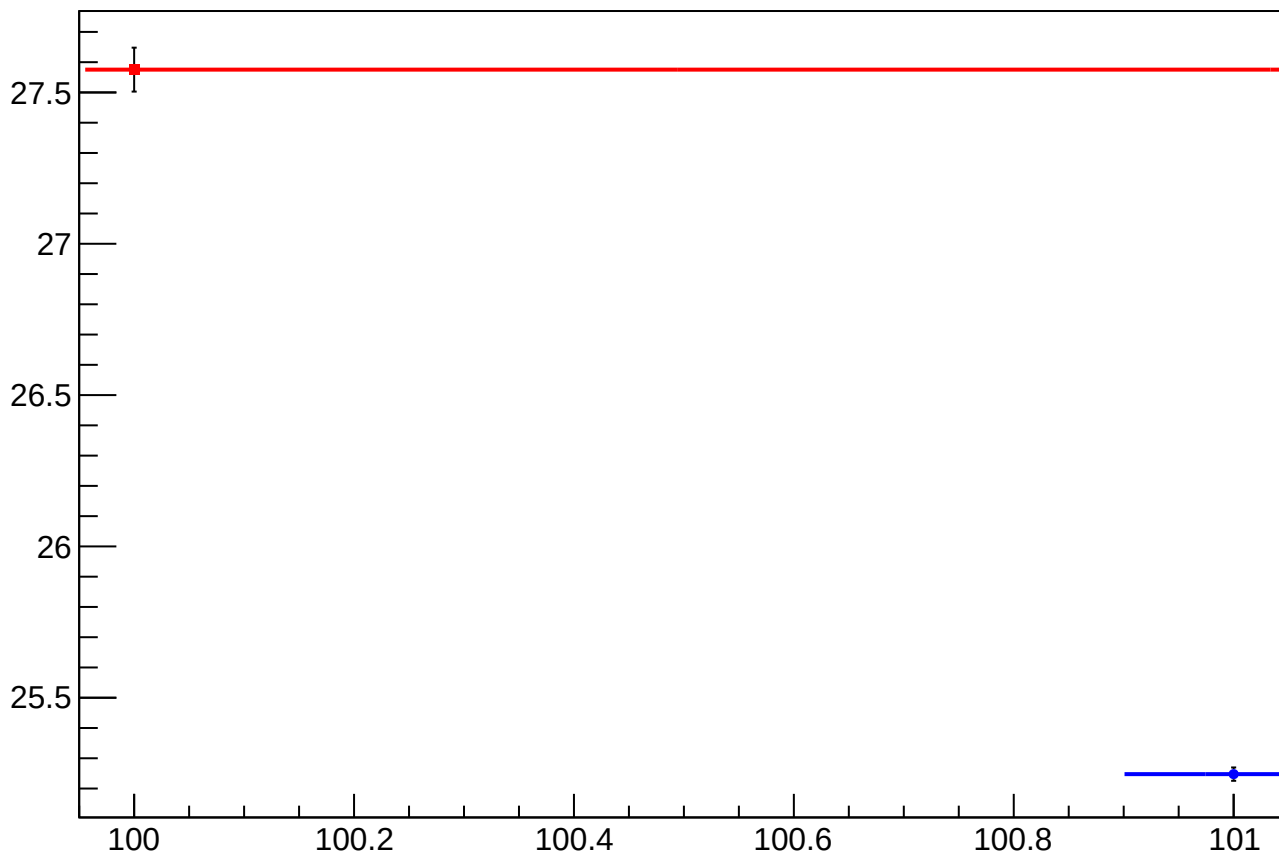
Right: -4.564+/-29.808  $\chi^2/\text{NDF}$ : 1.5/1

In: -15.794+/-31.151  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.564+/-29.808  $\chi^2/\text{NDF}$ : 1.5/1

asym\_bcm\_dg\_us\_dg\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 25.248+/-0.022  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.575+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

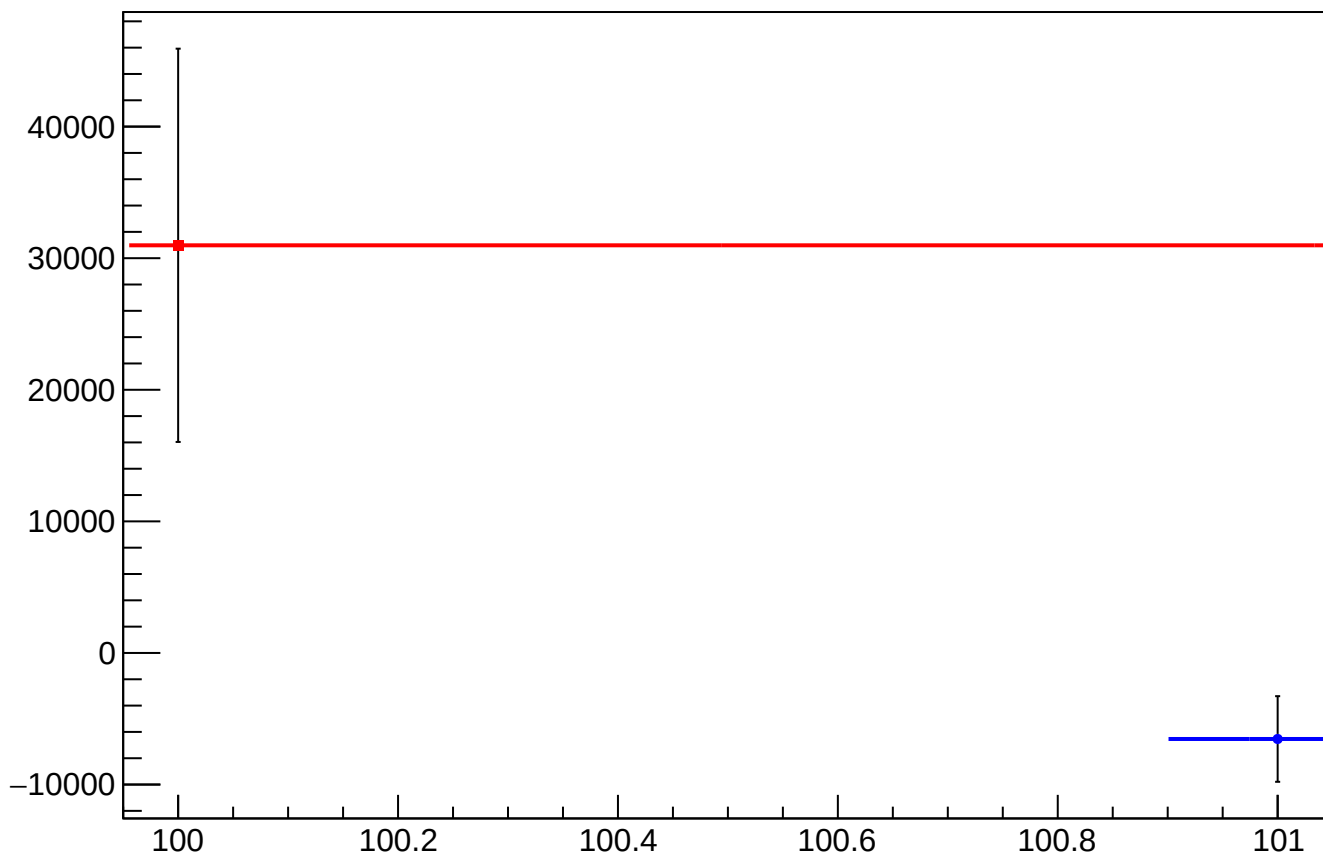
Right: 25.444+/-0.021  $\chi^2/\text{NDF}$ : 942.3/1

In: 25.248+/-0.022  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.444+/-0.021  $\chi^2/\text{NDF}$ : 942.3/1

asym\_bcm\_cav4cQ\_an\_ds\_avg\_mean vs Slug, Sign Corrected



Right In: -6537.401+/-3253.626  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30978.886+/-14943.465  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

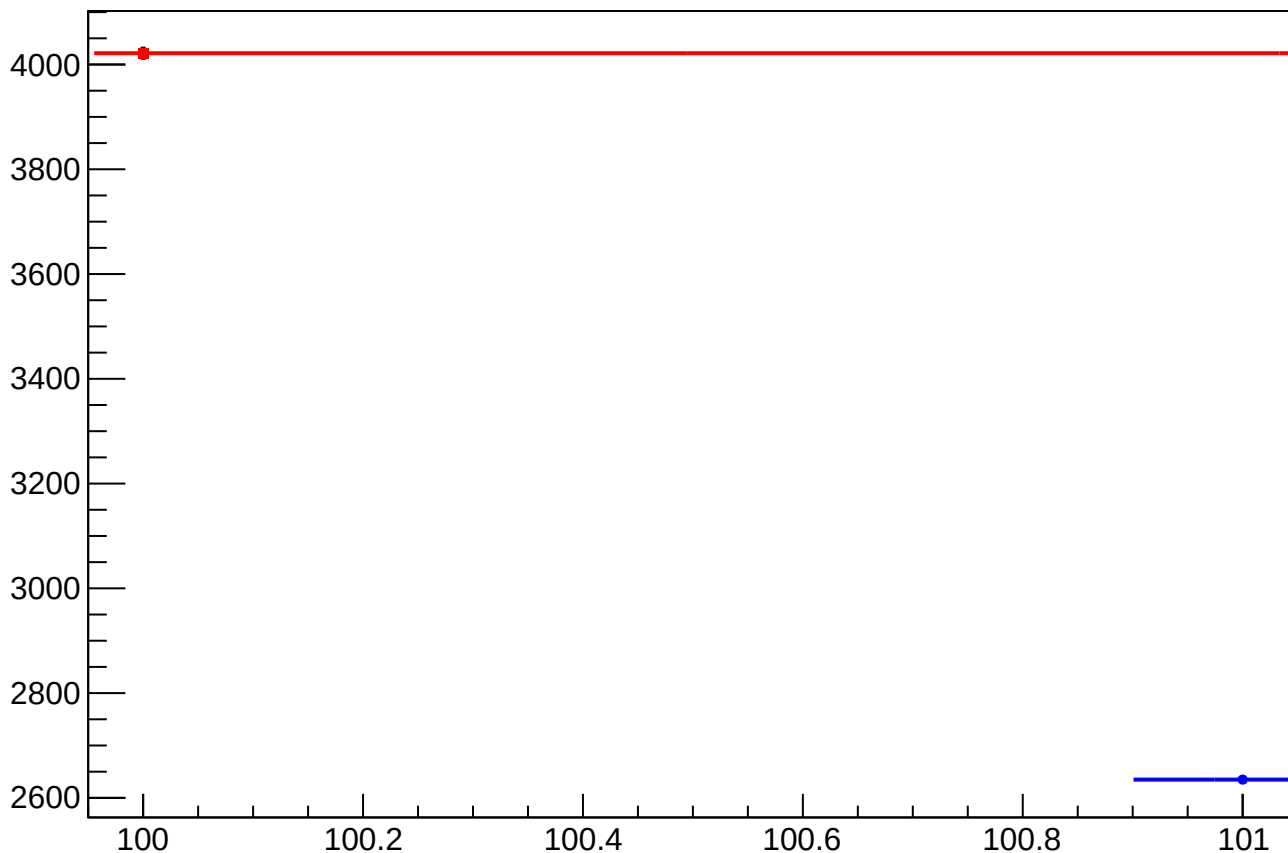
Right: -4839.402+/-3179.143  $\chi^2/\text{NDF}$ : 6.0/1

In: -6537.401+/-3253.626  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4839.402+/-3179.143  $\chi^2/\text{NDF}$ : 6.0/1

asym\_bcm\_cav4cQ\_an\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 2634.896 $\pm$ 2.301  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4021.587 $\pm$ 10.567  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2697.658 $\pm$ 2.248  $\chi^2$ /NDF: 16442.7/1

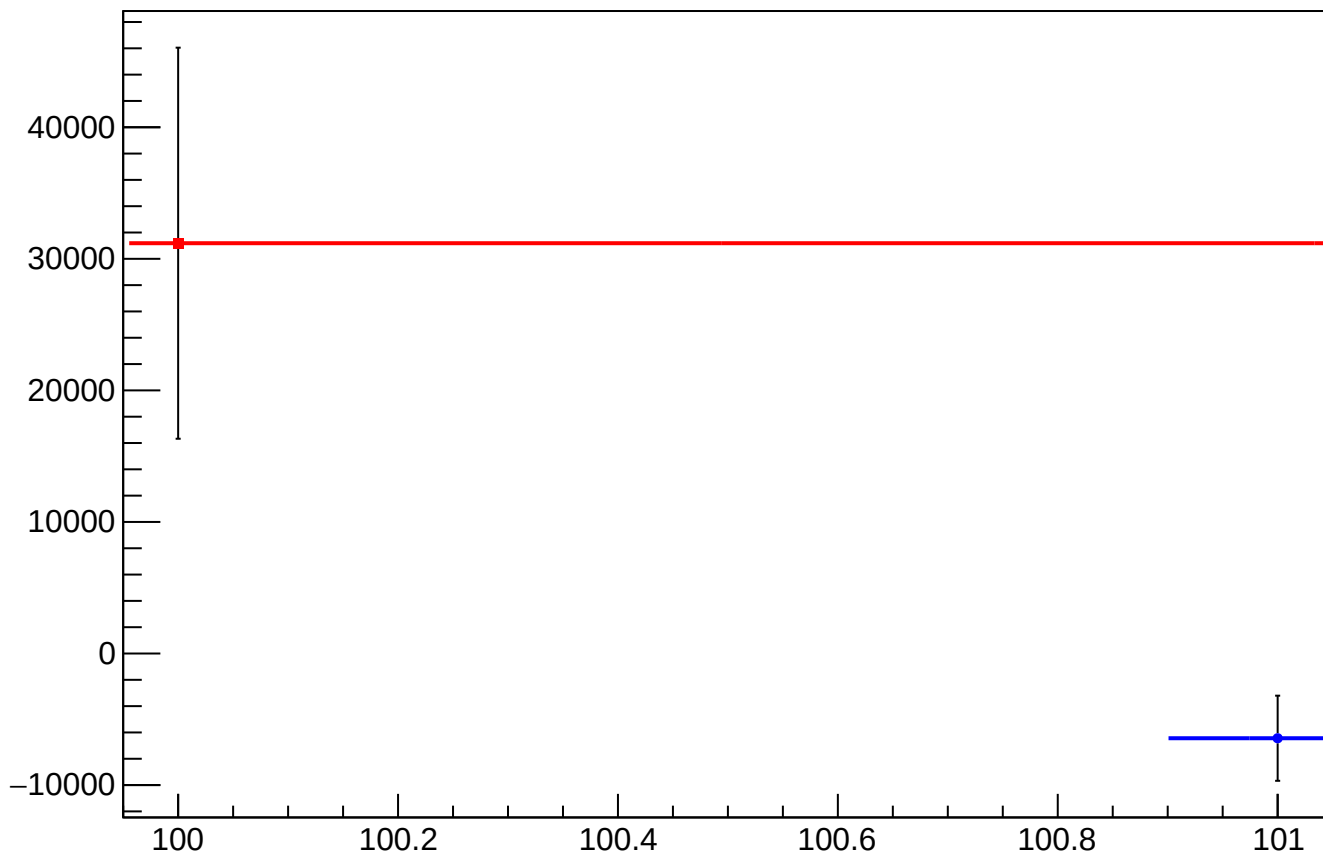
In: 2634.896 $\pm$ 2.301  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2697.658 $\pm$ 2.248  $\chi^2$ /NDF: 16442.7/1



asym\_bcm\_cav4cQ\_an\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: -6439.681+/-3235.233  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31186.779+/-14862.501  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

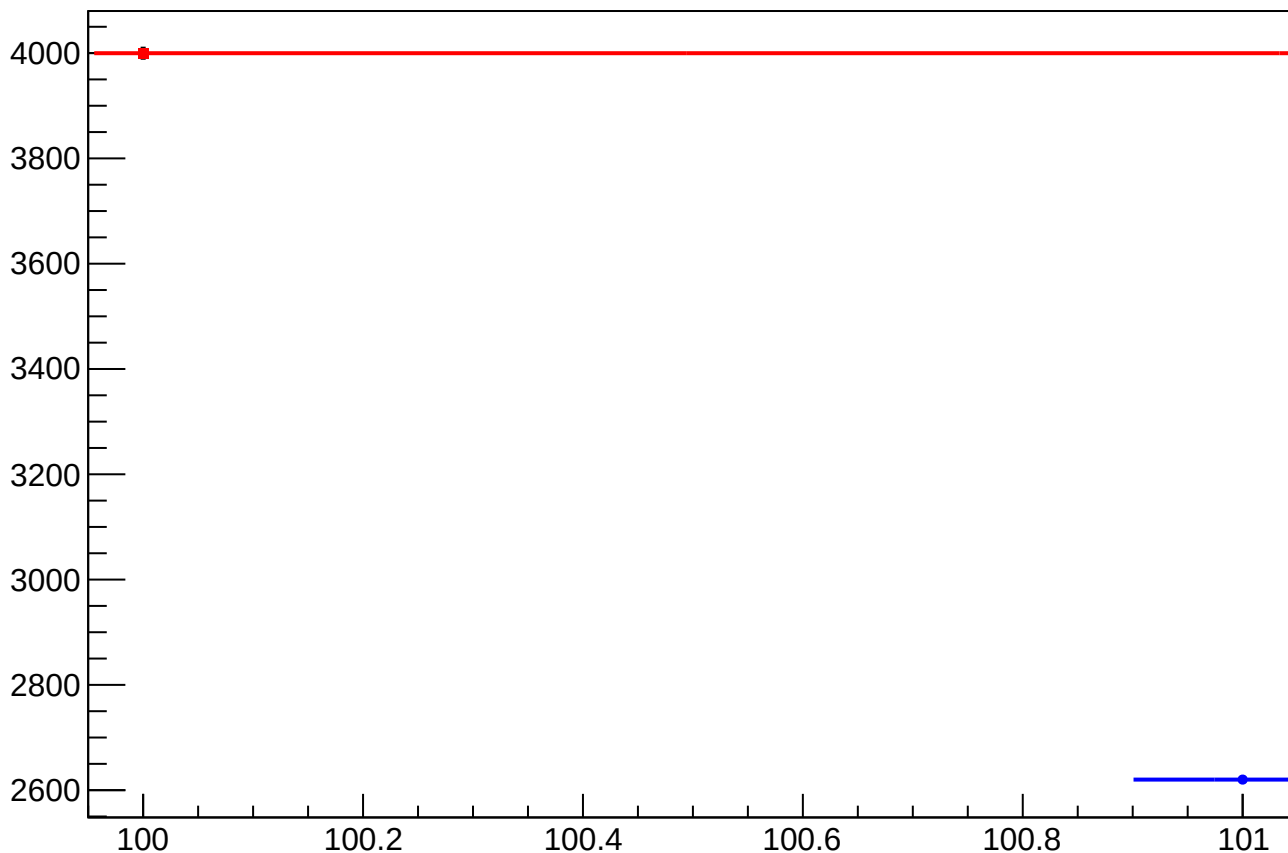
Right: -4737.464+/-3161.205  $\chi^2/\text{NDF}$ : 6.1/1

In: -6439.681+/-3235.233  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4737.464+/-3161.205  $\chi^2/\text{NDF}$ : 6.1/1

asym\_bcm\_cav4cQ\_an\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 2620.100+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3999.797+/-10.509  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

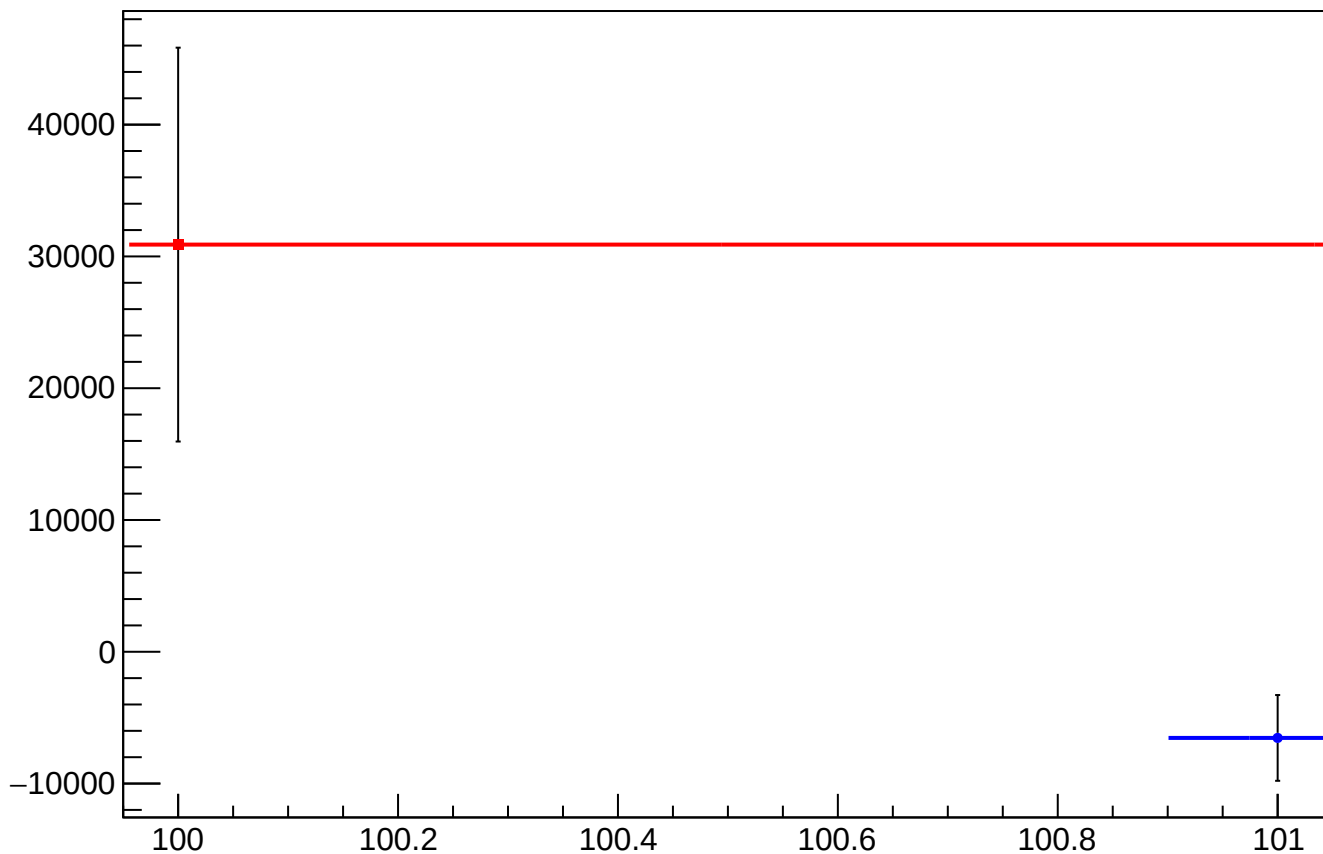
Right: 2682.518+/-2.235  $\chi^2/\text{NDF}$ : 16455.4/1

In: 2620.100+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2682.518+/-2.235  $\chi^2/\text{NDF}$ : 16455.4/1

asym\_bcm\_cav4cQ\_dg\_ds\_avg\_mean vs Slug, Sign Corrected



Right In: -6536.663+/-3253.964  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 30897.681+/-14943.304  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

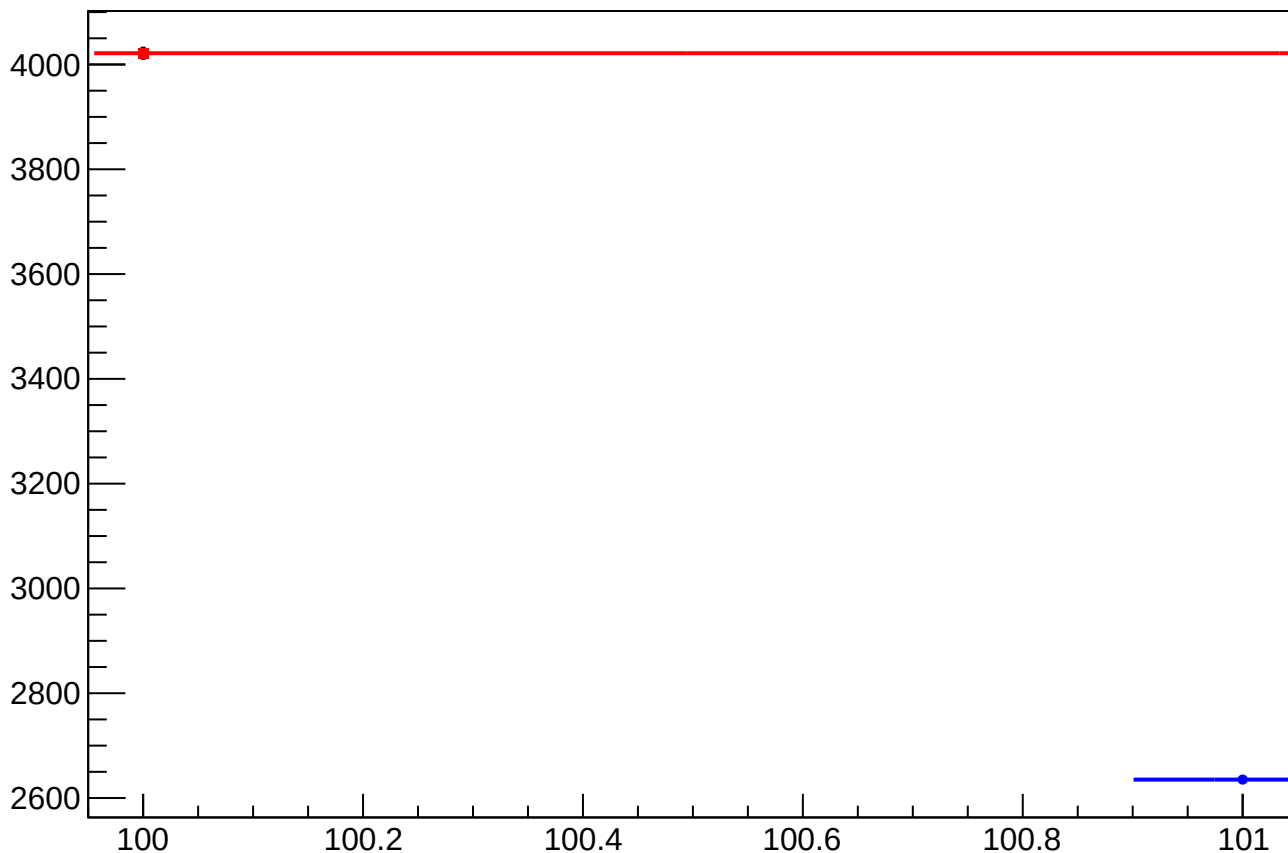
Right: -4842.002+/-3179.457  $\chi^2/\text{NDF}$ : 6.0/1

In: -6536.663+/-3253.964  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4842.002+/-3179.457  $\chi^2/\text{NDF}$ : 6.0/1

asym\_bcm\_cav4cQ\_dg\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 2635.167 $\pm$ 2.301  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4021.543 $\pm$ 10.567  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

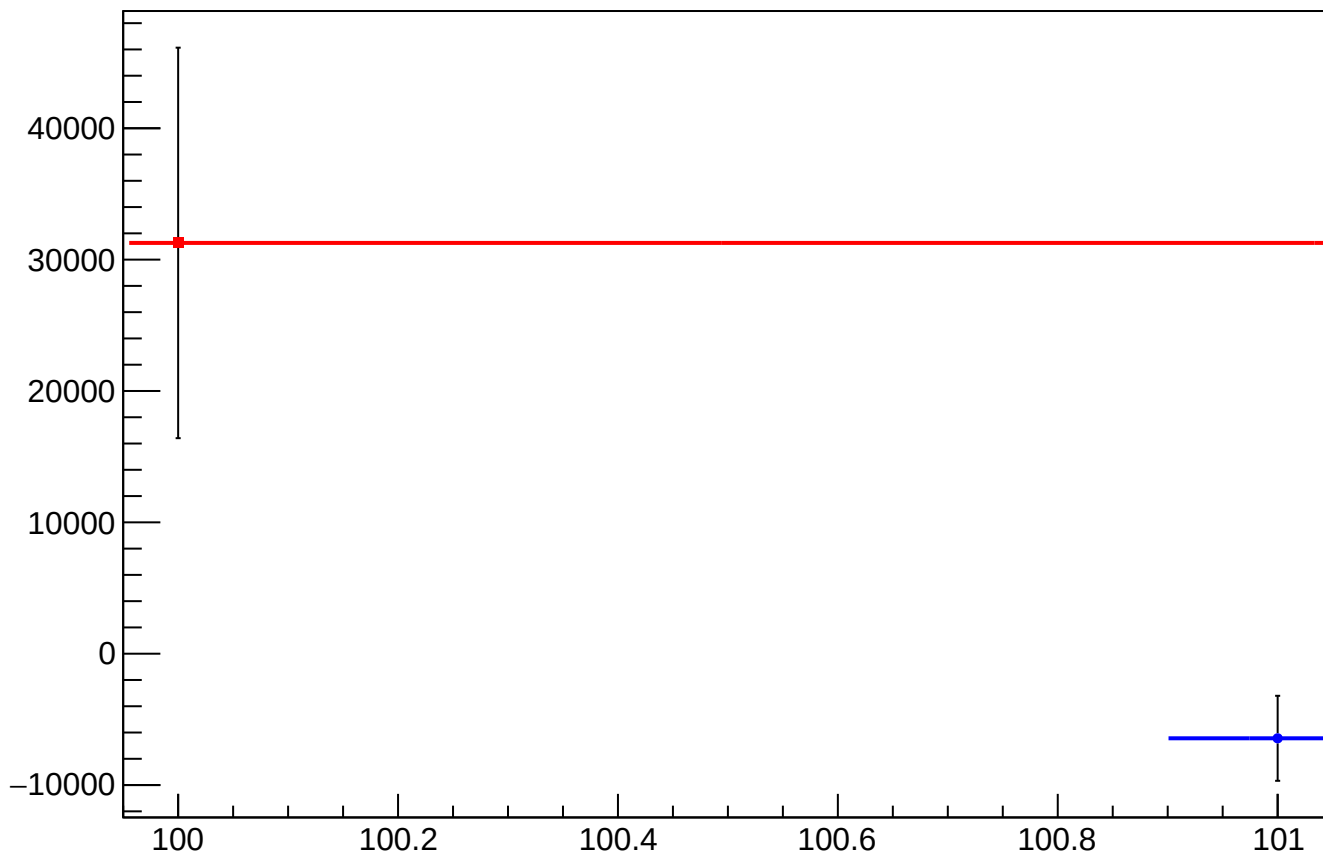
Right: 2697.929 $\pm$ 2.248  $\chi^2$ /NDF: 16435.4/1

In: 2635.167 $\pm$ 2.301  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2697.929 $\pm$ 2.248  $\chi^2$ /NDF: 16435.4/1

asym\_bcm\_cav4cQ\_dg\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: -6439.759 $\pm$ 3235.345  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 31271.299 $\pm$ 14863.469  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

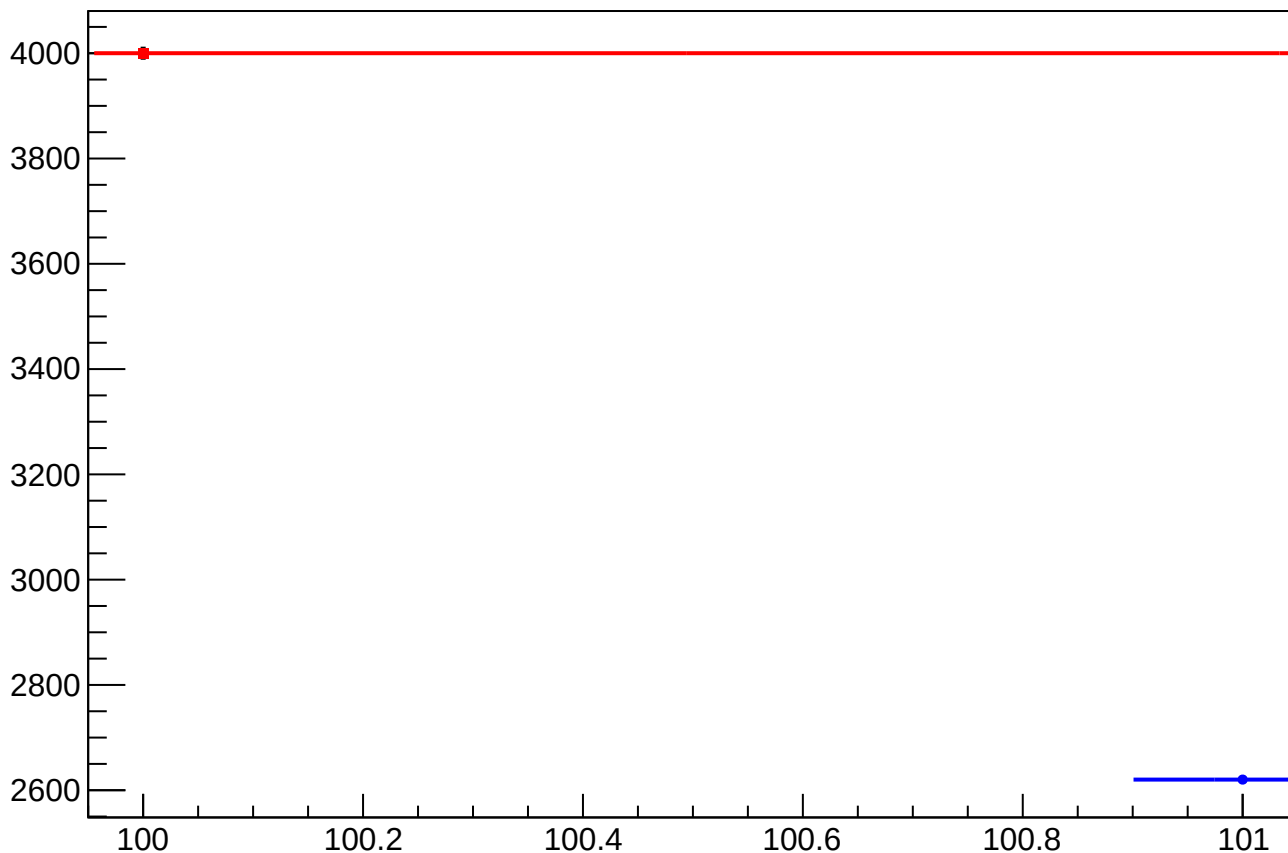
Right: -4733.814 $\pm$ 3161.319  $\chi^2/\text{NDF}$ : 6.1/1

In: -6439.759 $\pm$ 3235.345  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4733.814 $\pm$ 3161.319  $\chi^2/\text{NDF}$ : 6.1/1

asym\_bcm\_cav4cQ\_dg\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 2620.190+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4000.057+/-10.510  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

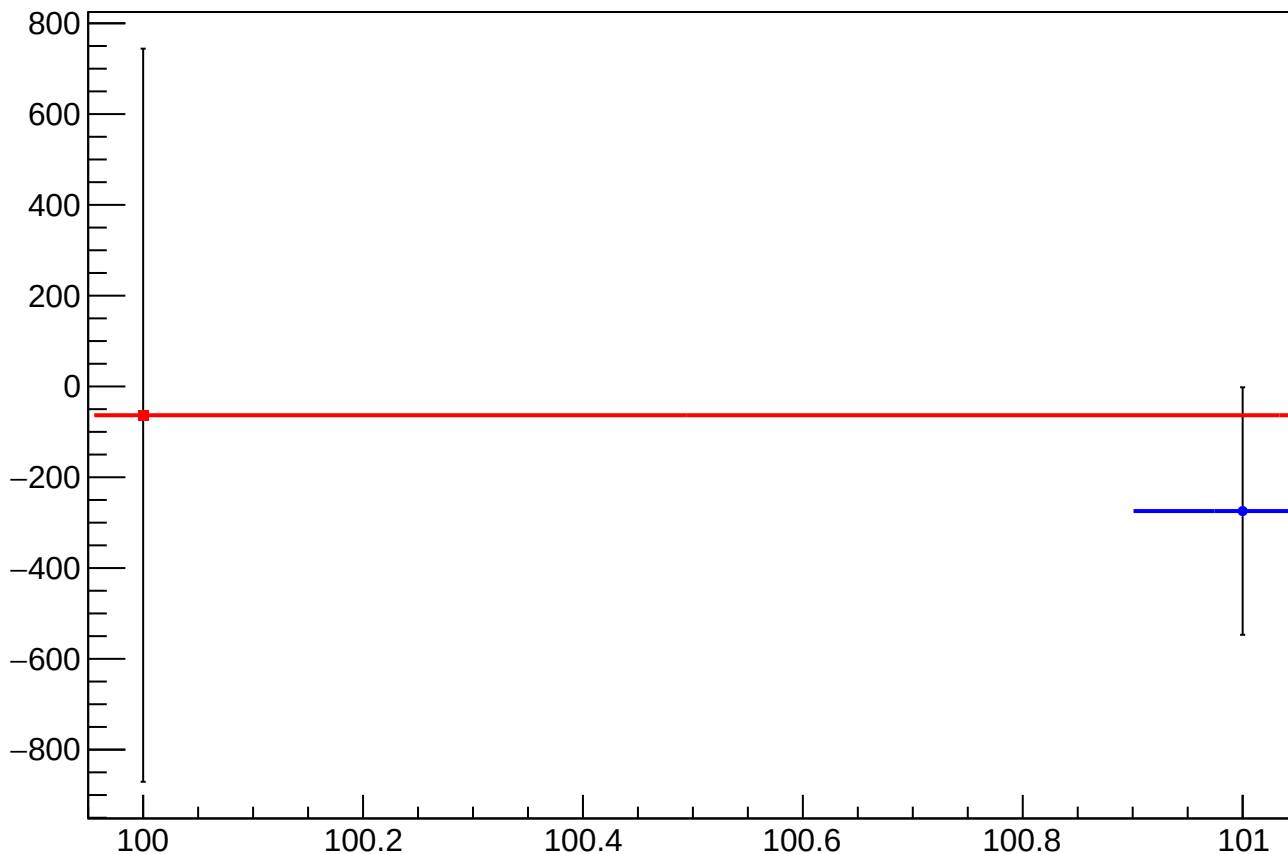
Right: 2682.611+/-2.235  $\chi^2/\text{NDF}$ : 16457.3/1

In: 2620.190+/-2.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2682.611+/-2.235  $\chi^2/\text{NDF}$ : 16457.3/1

asym\_bcm\_dg\_us\_an\_us\_avg\_mean vs Slug, Sign Corrected



Right In: -274.445+/-272.581  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -63.375+/-807.467  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

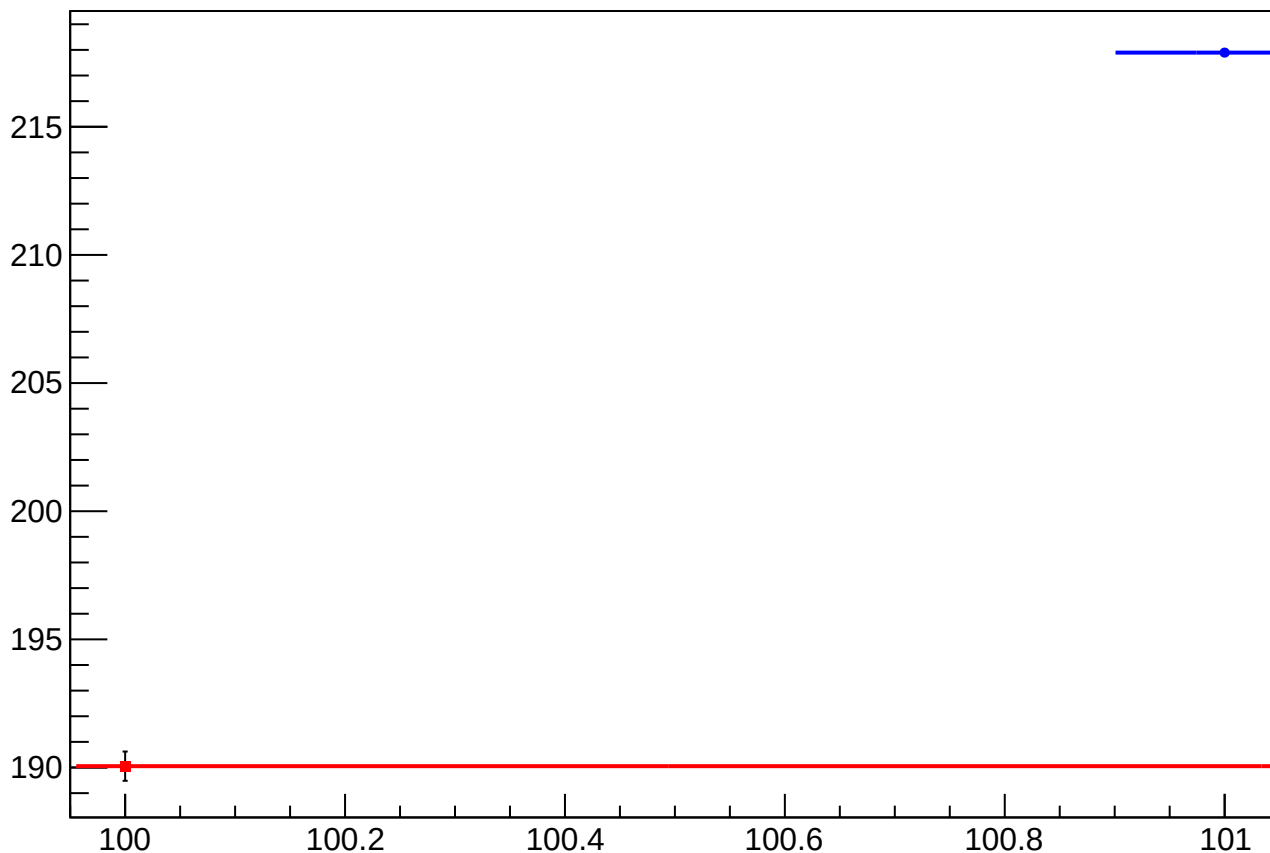
Right: -252.853+/-258.262  $\chi^2/\text{NDF}$ : 0.1/1

In: -274.445+/-272.581  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -252.853+/-258.262  $\chi^2/\text{NDF}$ : 0.1/1

asym\_bcm\_dg\_us\_an\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 217.894 $\pm$ 0.193  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 190.053 $\pm$ 0.571  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 215.046 $\pm$ 0.183  $\chi^2$ /NDF: 2134.5/1

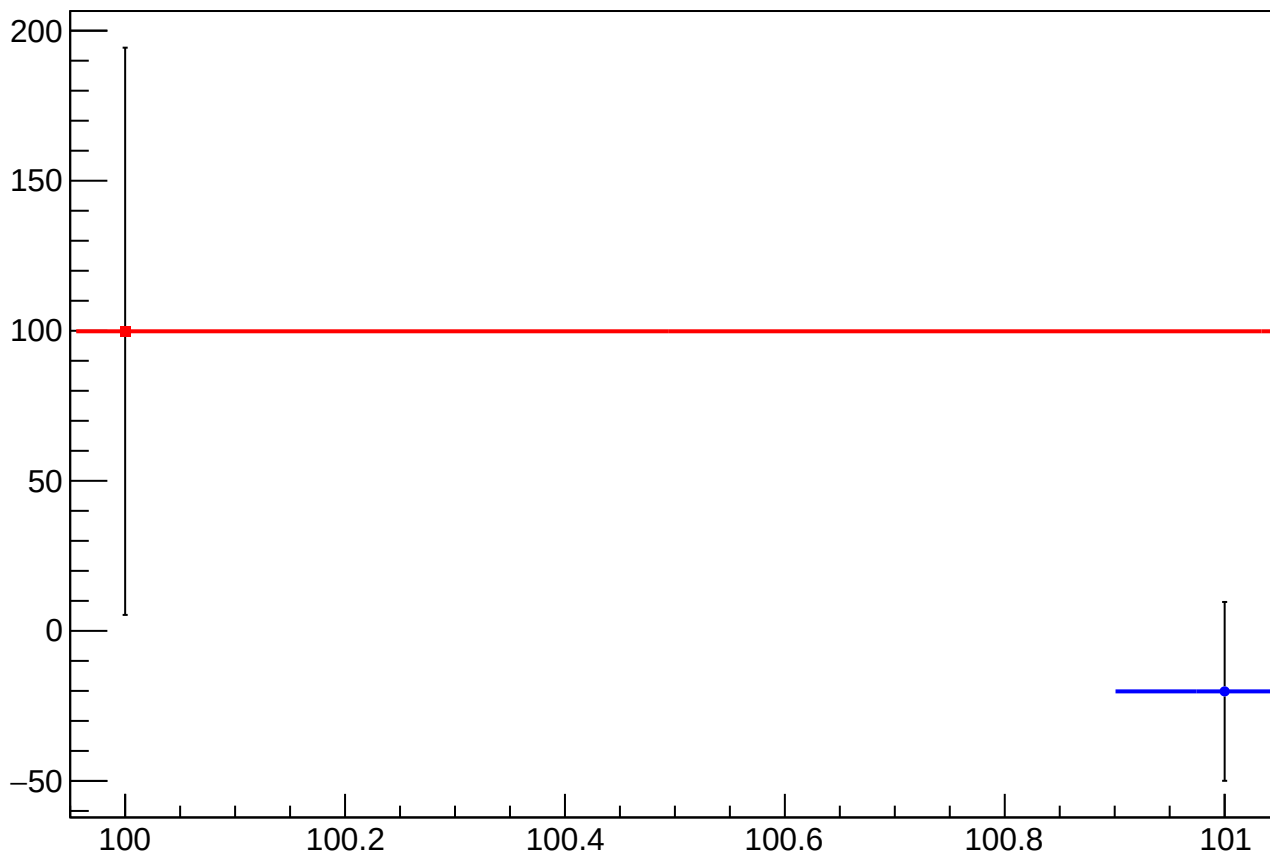
In: 217.894 $\pm$ 0.193  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 215.046 $\pm$ 0.183  $\chi^2$ /NDF: 2134.5/1



asym\_bcm\_dg\_us\_an\_us\_dd\_mean vs Slug, Sign Corrected



Right In: -20.160 $\pm$ 29.796  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 99.830 $\pm$ 94.508  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

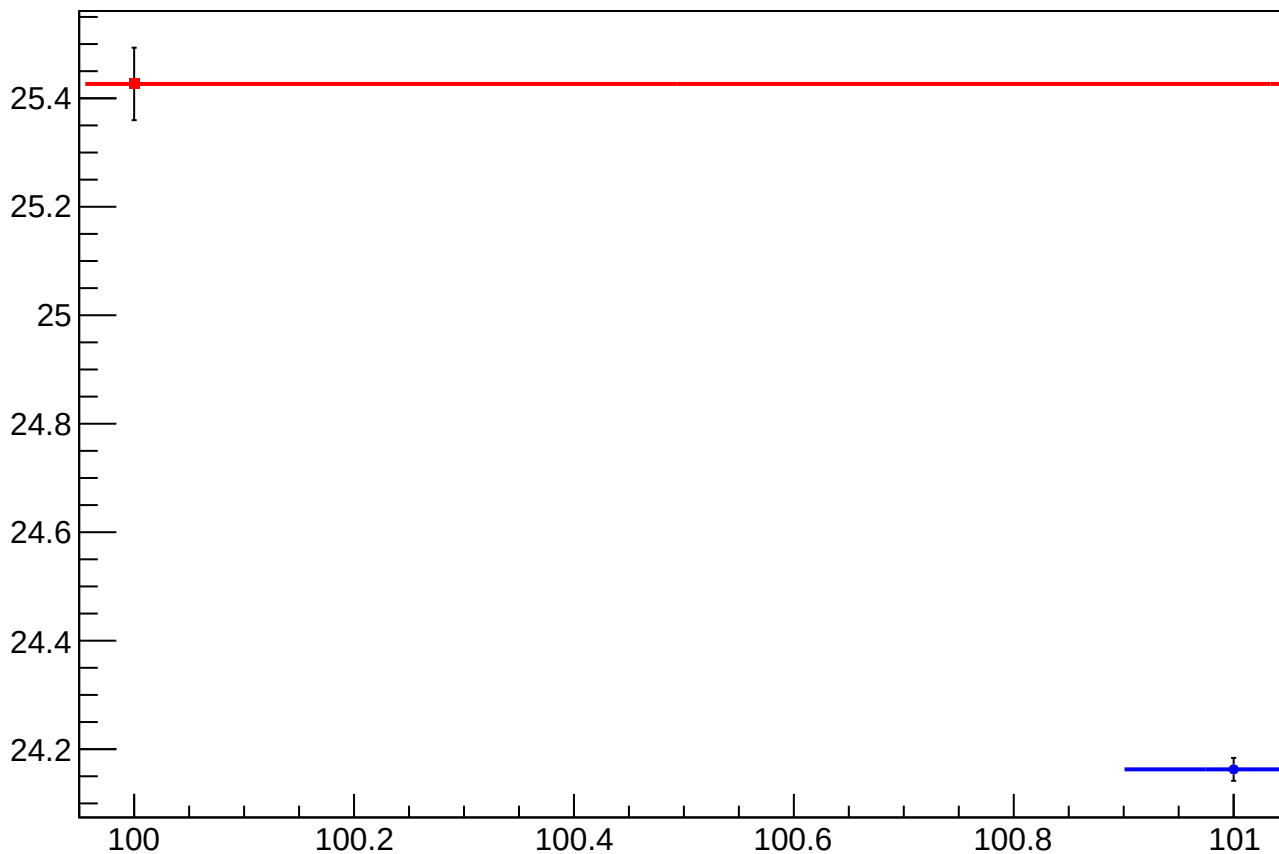
Right: -9.312 $\pm$ 28.417  $\chi^2$ /NDF: 1.5/1

In: -20.160 $\pm$ 29.796  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -9.312 $\pm$ 28.417  $\chi^2$ /NDF: 1.5/1

asym\_bcm\_dg\_us\_an\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 24.163+/-0.021  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.427+/-0.067  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

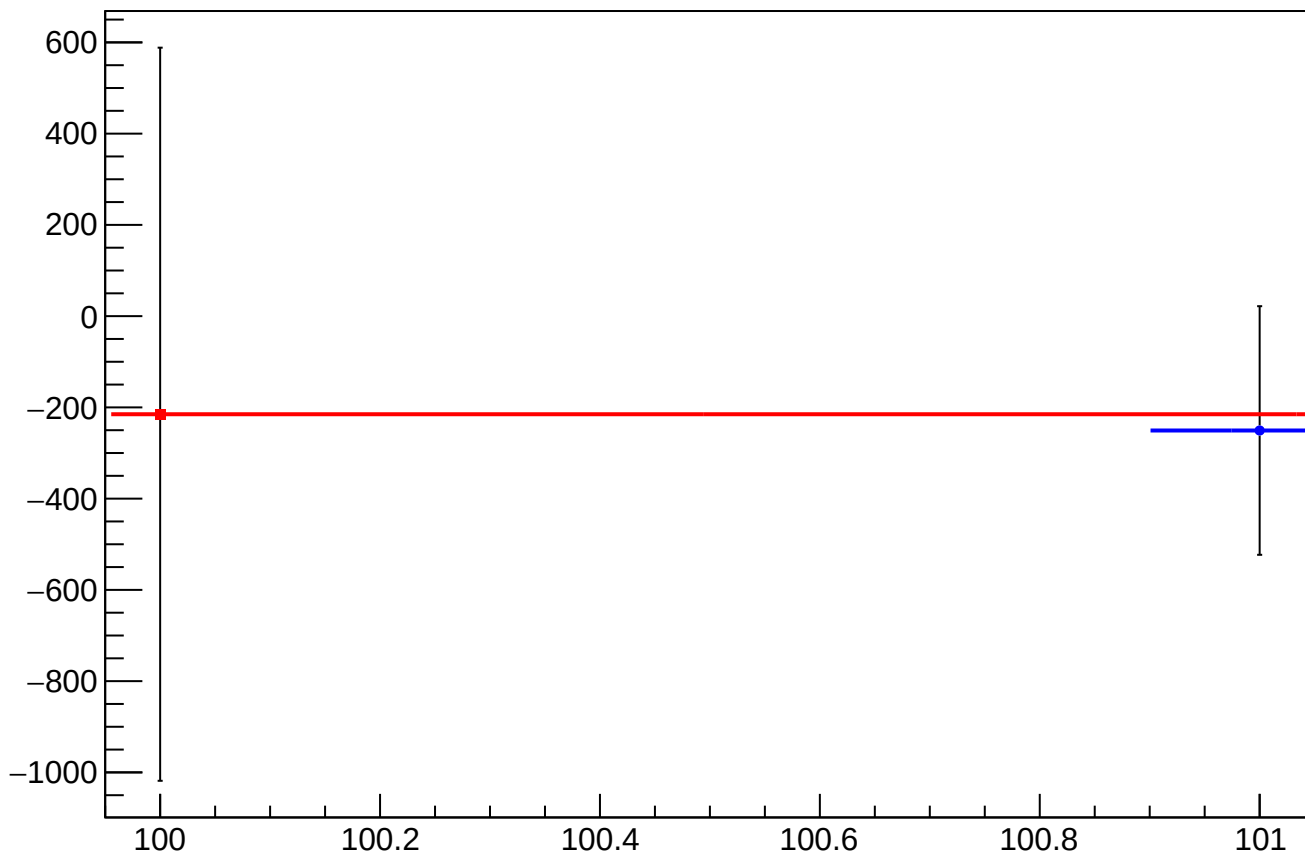
Right: 24.277+/-0.020  $\chi^2/\text{NDF}$ : 325.3/1

In: 24.163+/-0.021  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.277+/-0.020  $\chi^2/\text{NDF}$ : 325.3/1

asym\_bcm\_dg\_ds\_an\_us\_avg\_mean vs Slug, Sign Corrected



Right In: -250.651+/-272.464  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -215.004+/-803.427  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

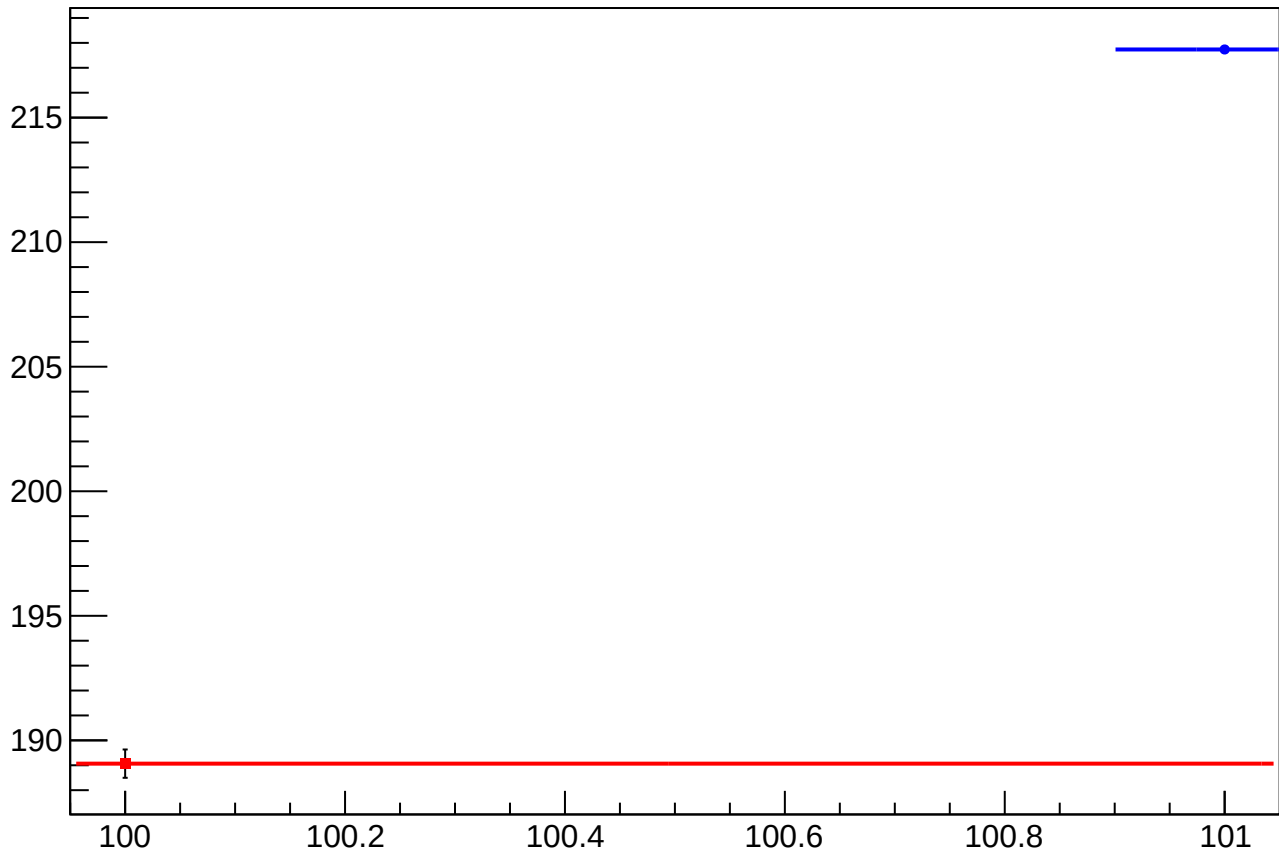
Right: -246.974+/-258.030  $\chi^2$ /NDF: 0.0/1

In: -250.651+/-272.464  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -246.974+/-258.030  $\chi^2$ /NDF: 0.0/1

asym\_bcm\_dg\_ds\_an\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 217.736 $\pm$ 0.193  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 189.065 $\pm$ 0.568  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

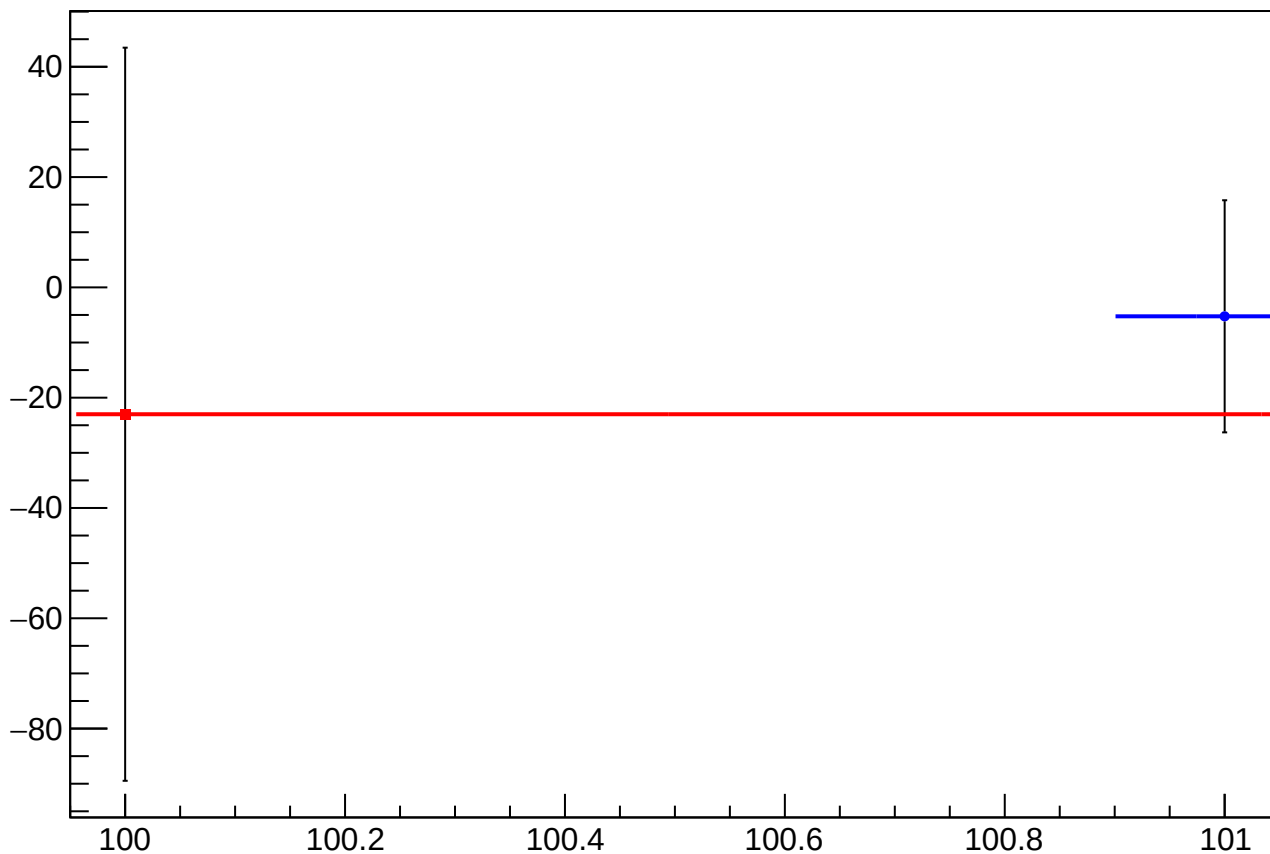
Right: 214.778 $\pm$ 0.182  $\chi^2$ /NDF: 2284.2/1

In: 217.736 $\pm$ 0.193  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 214.778 $\pm$ 0.182  $\chi^2$ /NDF: 2284.2/1

asym\_bcm\_dg\_ds\_an\_us\_dd\_mean vs Slug, Sign Corrected



Right In: -5.247+/-21.045  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -23.003+/-66.468  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

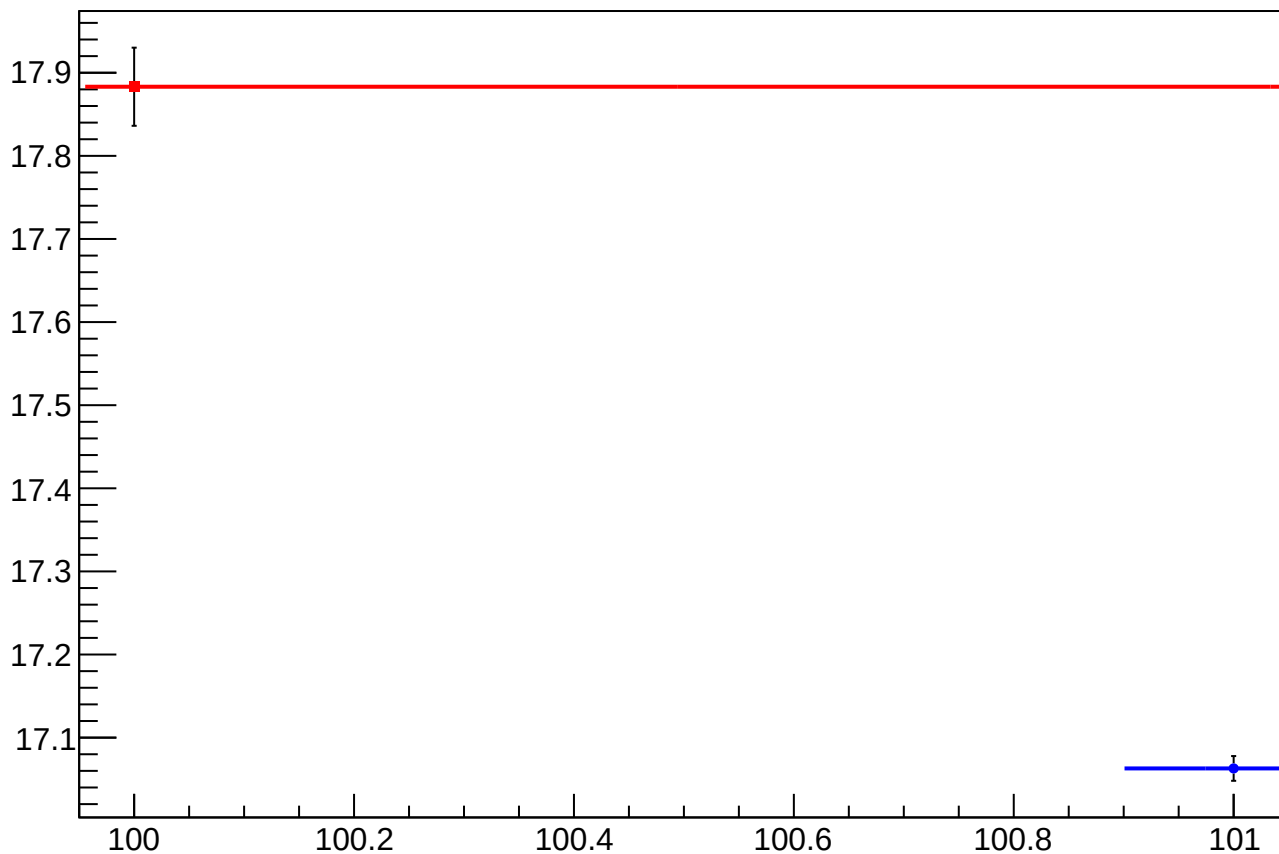
Right: -6.865+/-20.063  $\chi^2/\text{NDF}$ : 0.1/1

In: -5.247+/-21.045  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.865+/-20.063  $\chi^2/\text{NDF}$ : 0.1/1

asym\_bcm\_dg\_ds\_an\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 17.063 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.883 $\pm$ 0.047  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

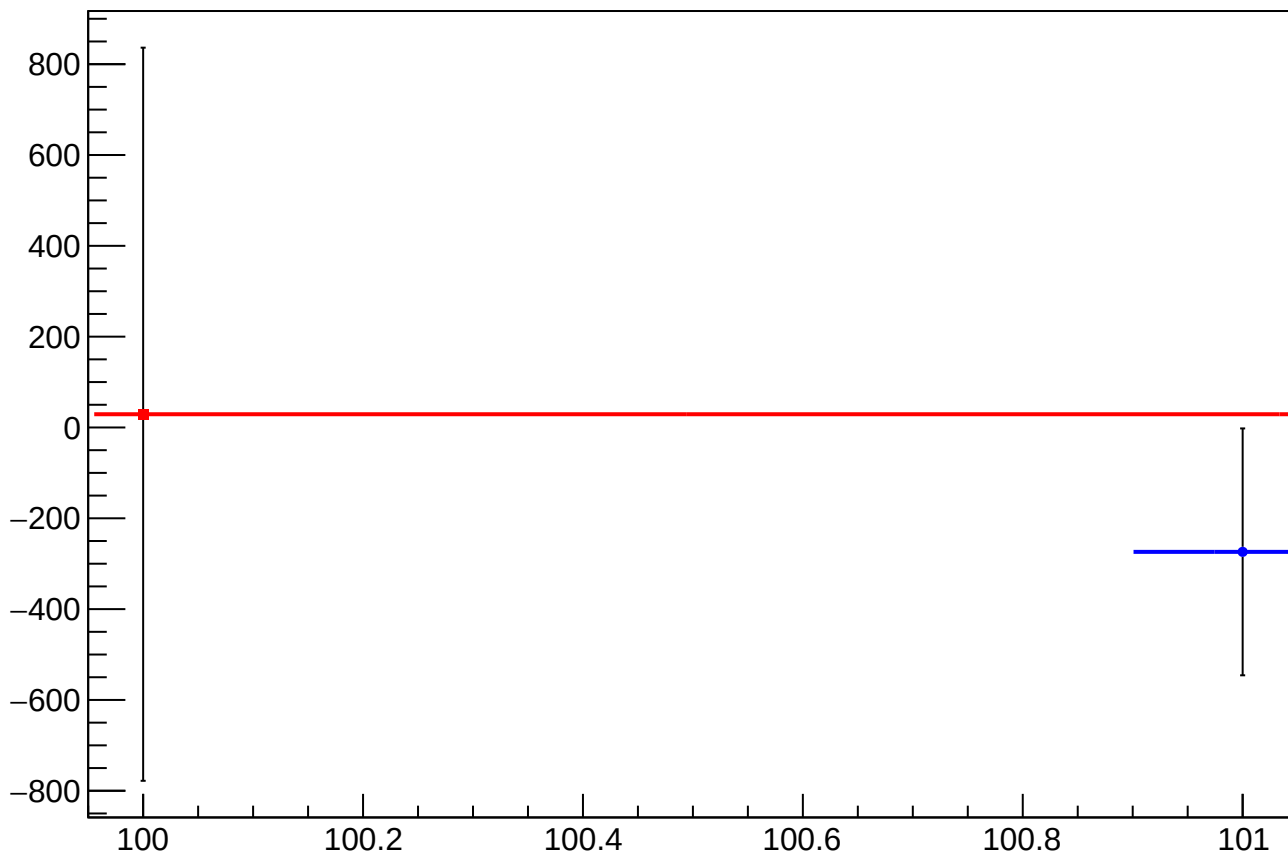
Right: 17.138 $\pm$ 0.014  $\chi^2$ /NDF: 276.8/1

In: 17.063 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.138 $\pm$ 0.014  $\chi^2$ /NDF: 276.8/1

asym\_bcm\_dg\_us\_an\_ds\_avg\_mean vs Slug, Sign Corrected



Right In: -273.924+/-271.829  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 29.160+/-807.208  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

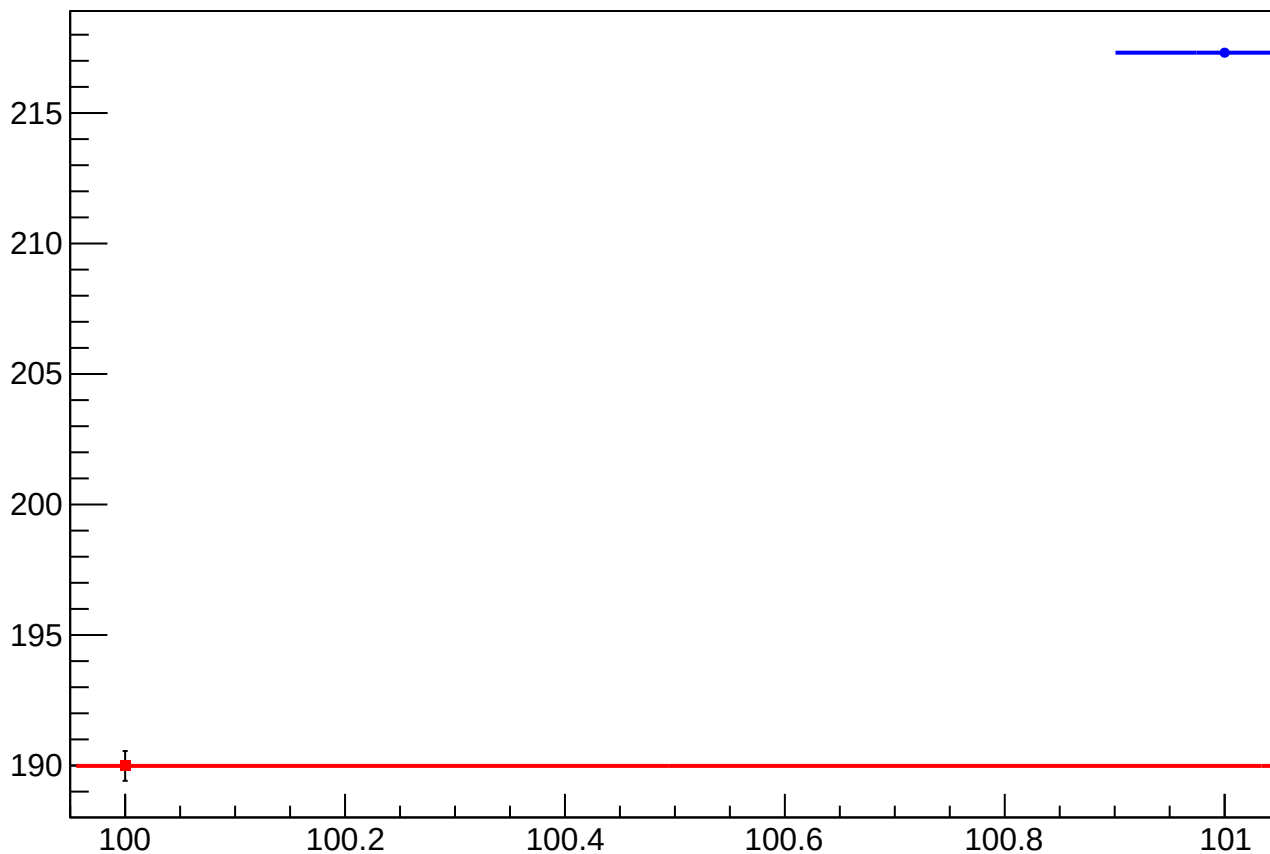
Right: -243.055+/-257.614  $\chi^2/\text{NDF}$ : 0.1/1

In: -273.924+/-271.829  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -243.055+/-257.614  $\chi^2/\text{NDF}$ : 0.1/1

asym\_bcm\_dg\_us\_an\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 217.311 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 189.985 $\pm$ 0.571  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 214.528 $\pm$ 0.182  $\chi^2$ /NDF: 2058.5/1

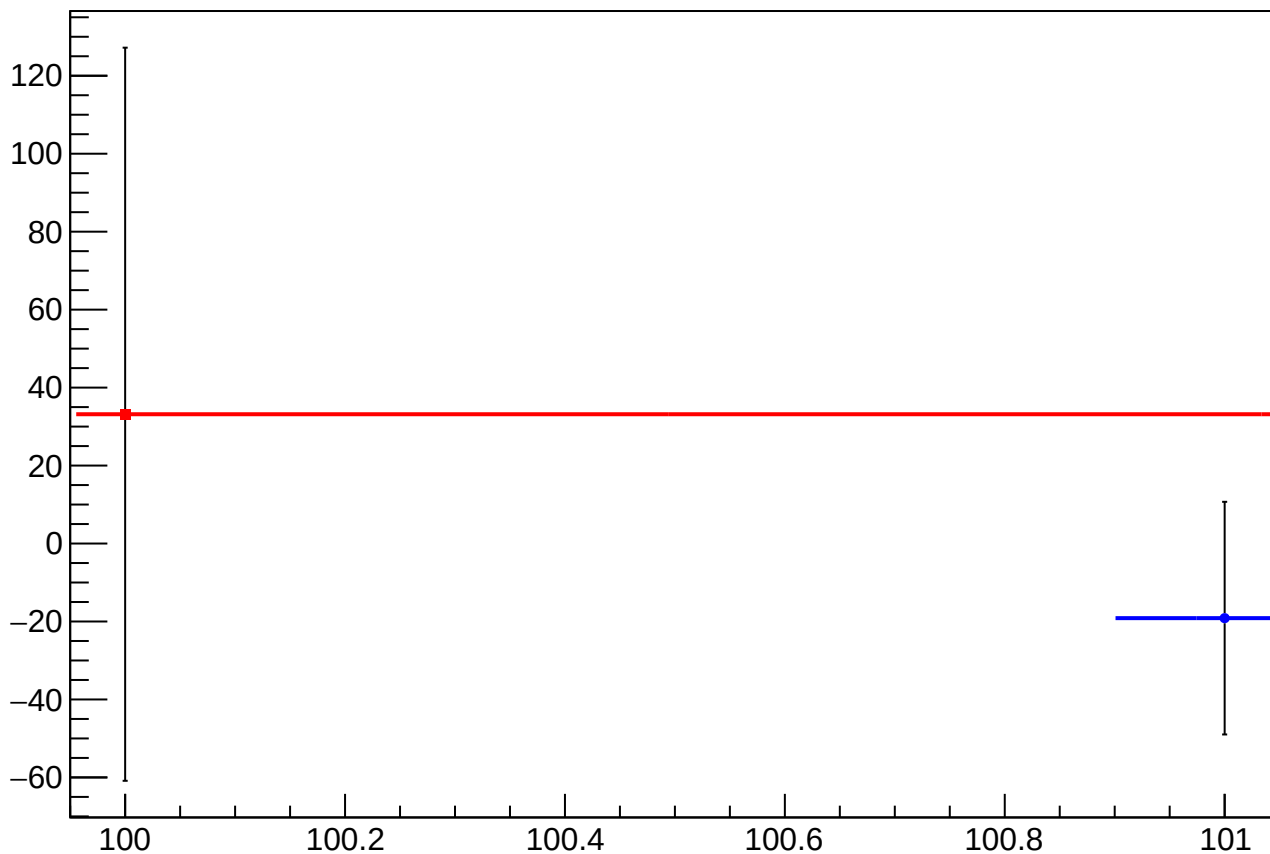
In: 217.311 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 214.528 $\pm$ 0.182  $\chi^2$ /NDF: 2058.5/1



asym\_bcm\_dg\_us\_an\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: -19.139 $\pm$ 29.841  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 33.168 $\pm$ 94.034  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

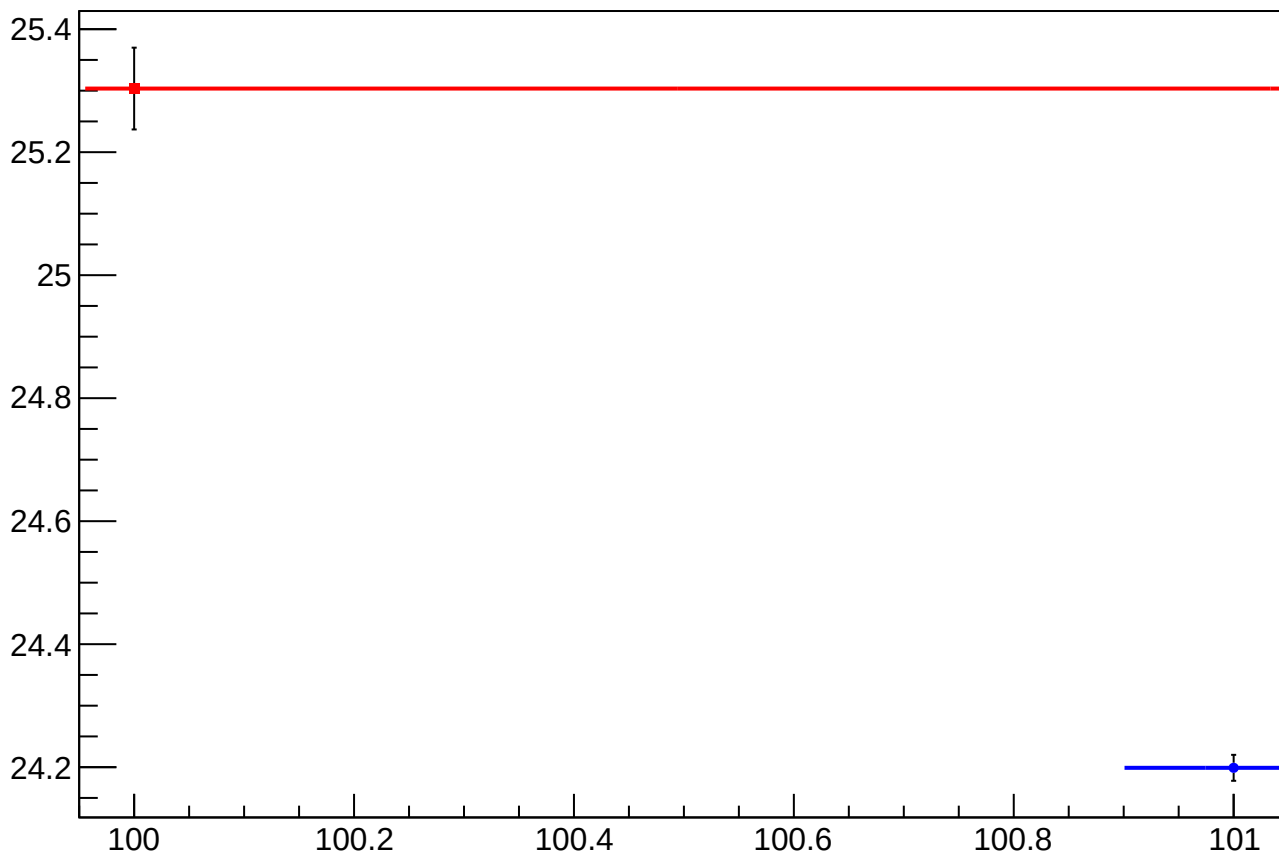
Right: -14.353 $\pm$ 28.443  $\chi^2$ /NDF: 0.3/1

In: -19.139 $\pm$ 29.841  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -14.353 $\pm$ 28.443  $\chi^2$ /NDF: 0.3/1

asym\_bcm\_dg\_us\_an\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 24.199 $\pm$ 0.021  $\chi^2/NDF$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Right Out: 25.303 $\pm$ 0.066  $\chi^2/NDF$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

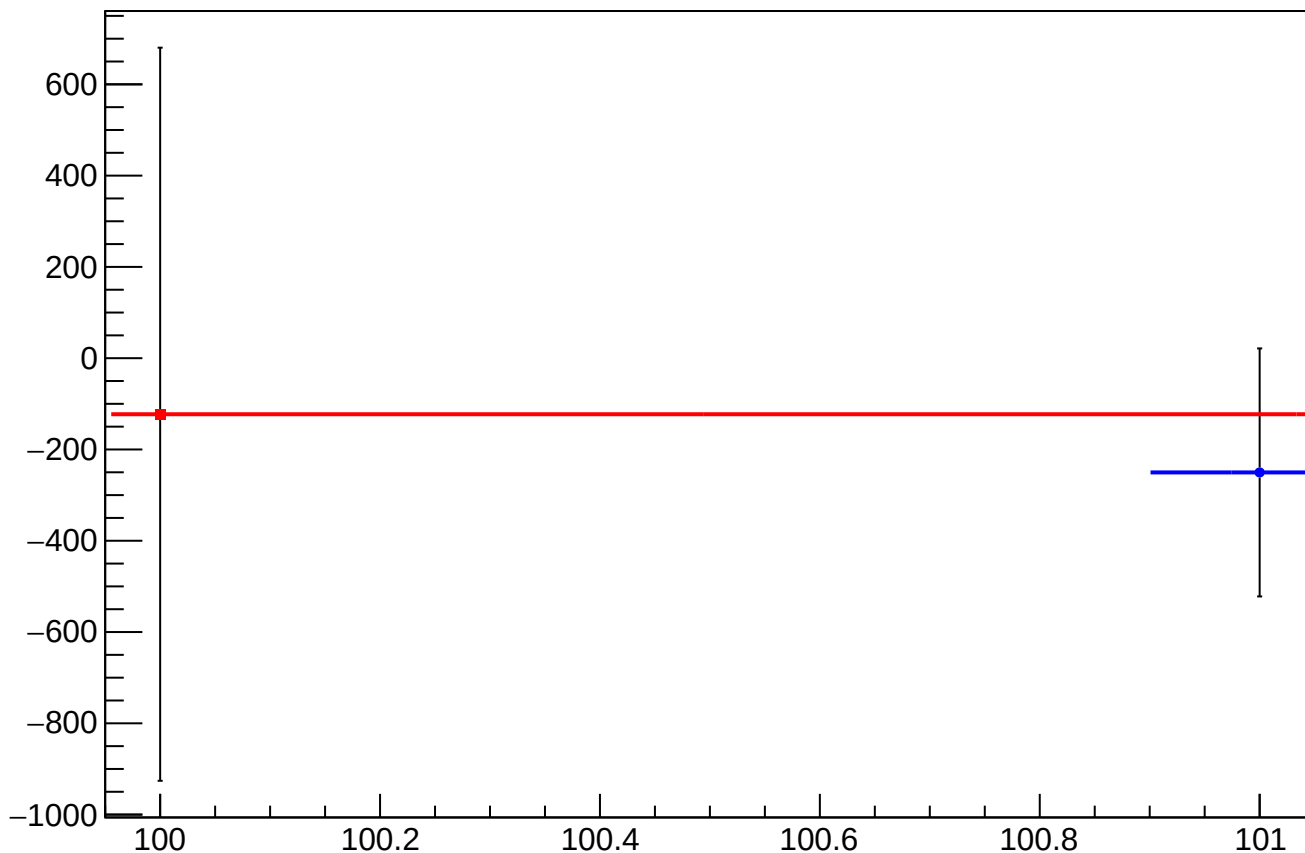
Right: 24.300 $\pm$ 0.020  $\chi^2/NDF$ : 250.7/1

In: 24.199 $\pm$ 0.021  $\chi^2/NDF$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

All: 24.300 $\pm$ 0.020  $\chi^2/NDF$ : 250.7/1

asym\_bcm\_dg\_ds\_an\_ds\_avg\_mean vs Slug, Sign Corrected



Right In: -250.294+/-271.719  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -122.799+/-803.146  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

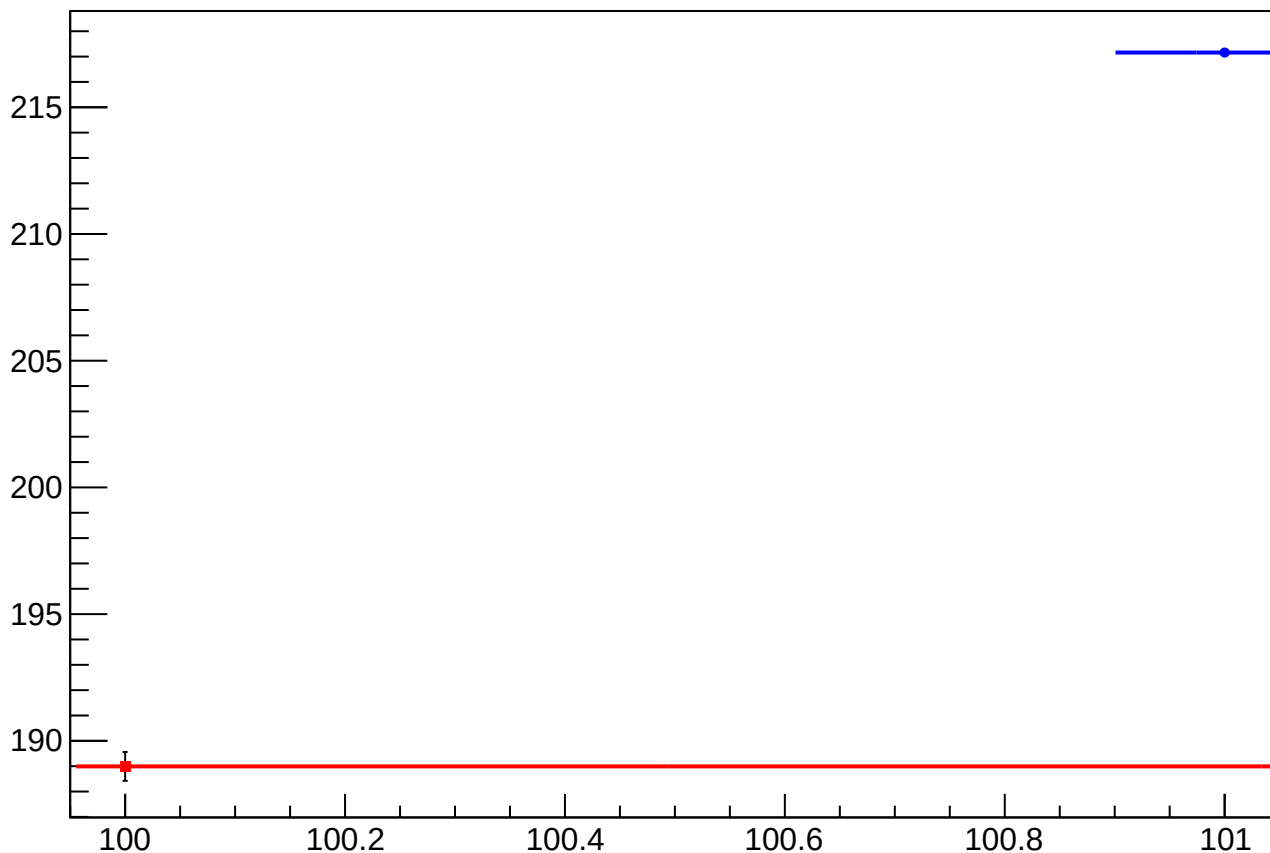
Right: -237.200+/-257.388  $\chi^2/\text{NDF}$ : 0.0/1

In: -250.294+/-271.719  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -237.200+/-257.388  $\chi^2/\text{NDF}$ : 0.0/1

asym\_bcm\_dg\_ds\_an\_ds\_avg\_rms vs Slug, Sign Corrected



Right In: 217.160 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 188.992 $\pm$ 0.568  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

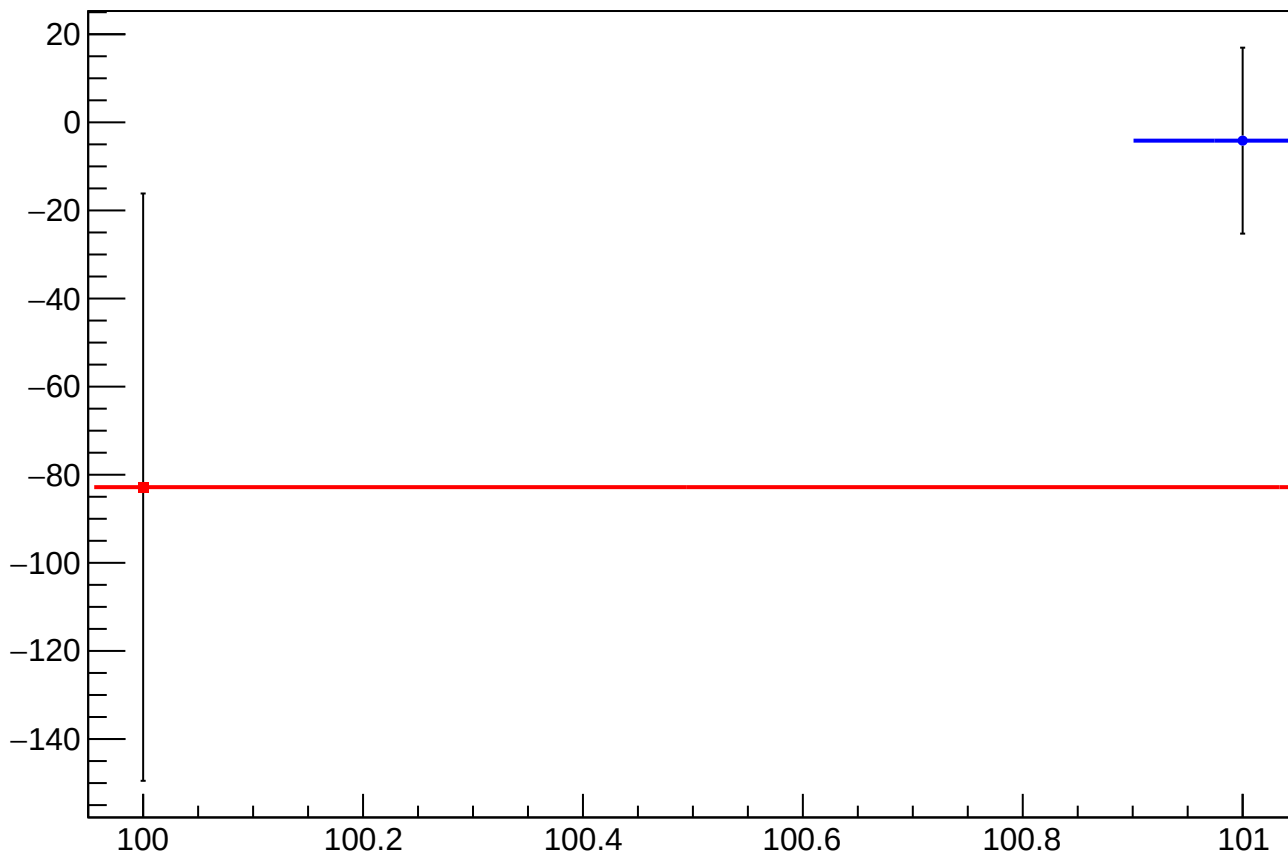
Right: 214.267 $\pm$ 0.182  $\chi^2$ /NDF: 2207.5/1

In: 217.160 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 214.267 $\pm$ 0.182  $\chi^2$ /NDF: 2207.5/1

asym\_bcm\_dg\_ds\_an\_ds\_dd\_mean vs Slug, Sign Corrected



Right In: -4.155+/-21.108  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -82.818+/-66.666  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

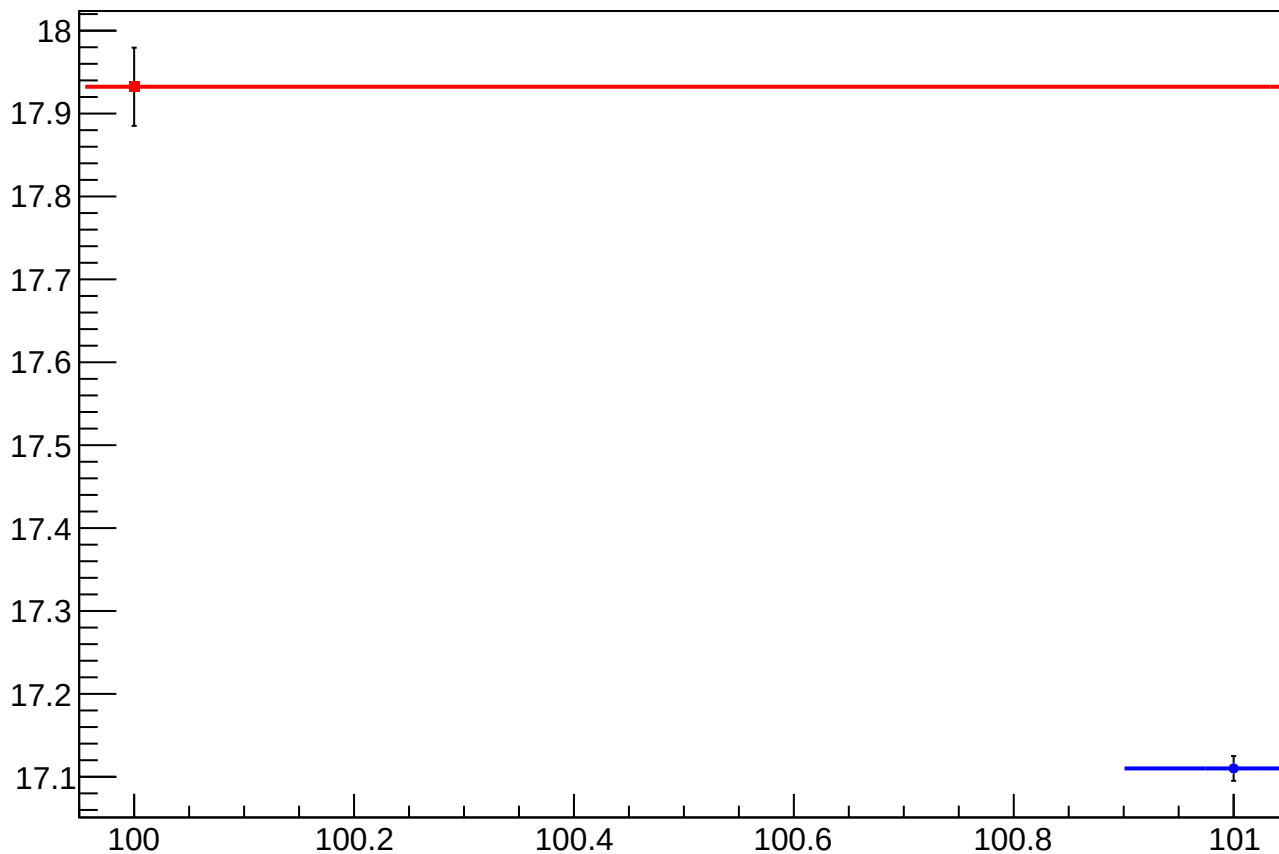
Right: -11.322+/-20.123  $\chi^2/\text{NDF}$ : 1.3/1

In: -4.155+/-21.108  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.322+/-20.123  $\chi^2/\text{NDF}$ : 1.3/1

asym\_bcm\_dg\_ds\_an\_ds\_dd\_rms vs Slug, Sign Corrected



Right In: 17.110 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.932 $\pm$ 0.047  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

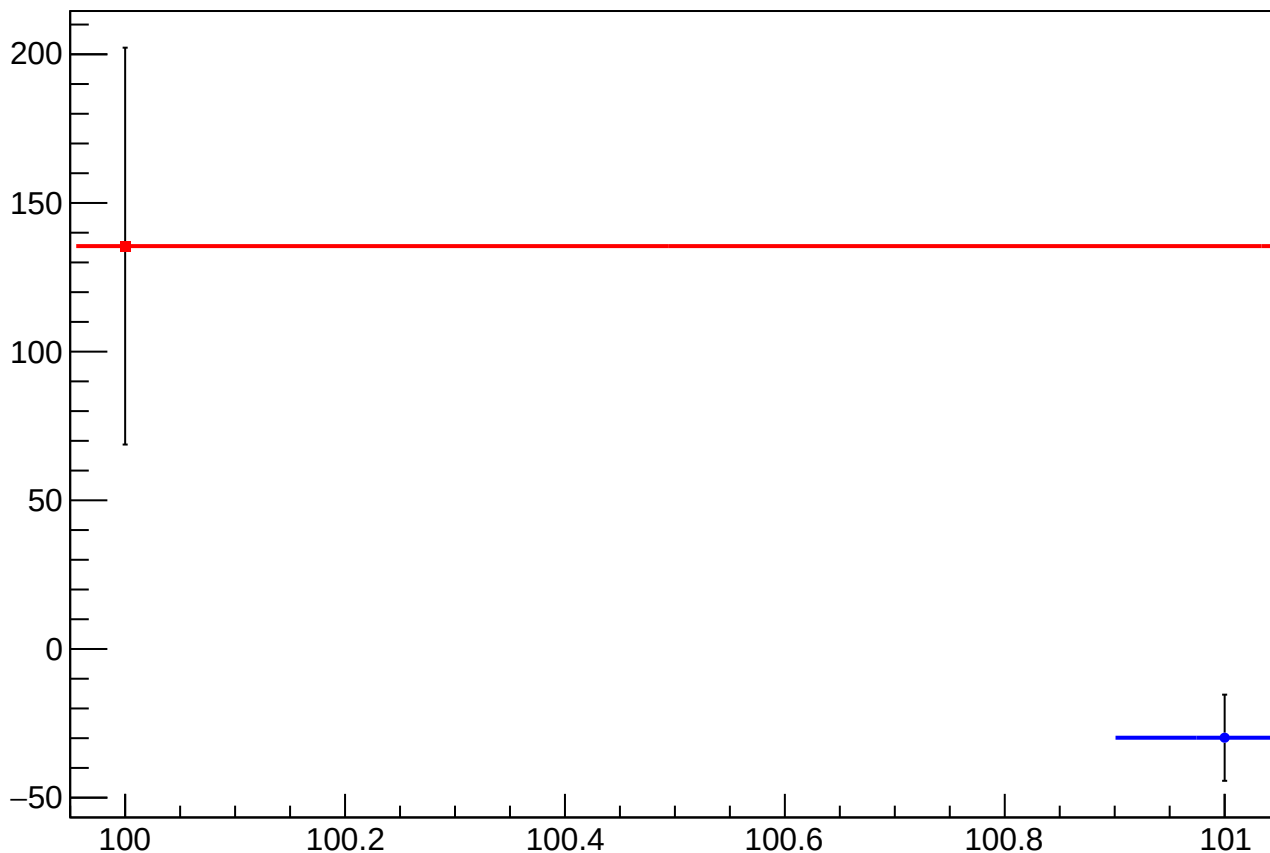
Right: 17.185 $\pm$ 0.014  $\chi^2$ /NDF: 276.5/1

In: 17.110 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.185 $\pm$ 0.014  $\chi^2$ /NDF: 276.5/1

diff\_bpm\_4aX\_4acX\_avg\_mean vs Slug, Sign Corrected



Right In: -29.843 $\pm$ 14.486  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 135.492 $\pm$ 66.734  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

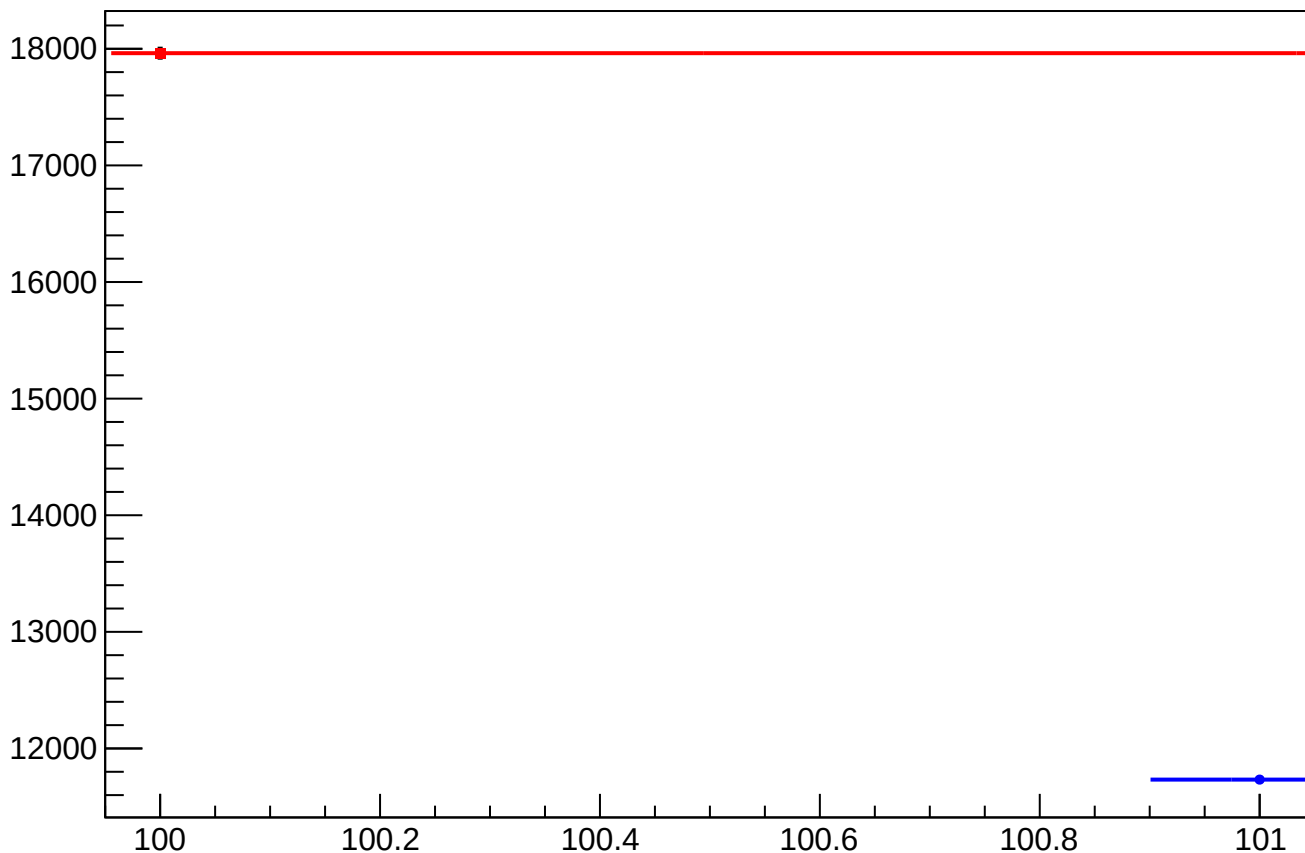
Right: -22.403 $\pm$ 14.157  $\chi^2$ /NDF: 5.9/1

In: -29.843 $\pm$ 14.486  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -22.403 $\pm$ 14.157  $\chi^2$ /NDF: 5.9/1

diff\_bpm\_4aX\_4acX\_avg\_rms vs Slug, Sign Corrected



Right In: 11732.968+/-10.243  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17962.434+/-47.188  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 12013.298+/-10.010  $\chi^2/\text{NDF}$ : 16643.2/1

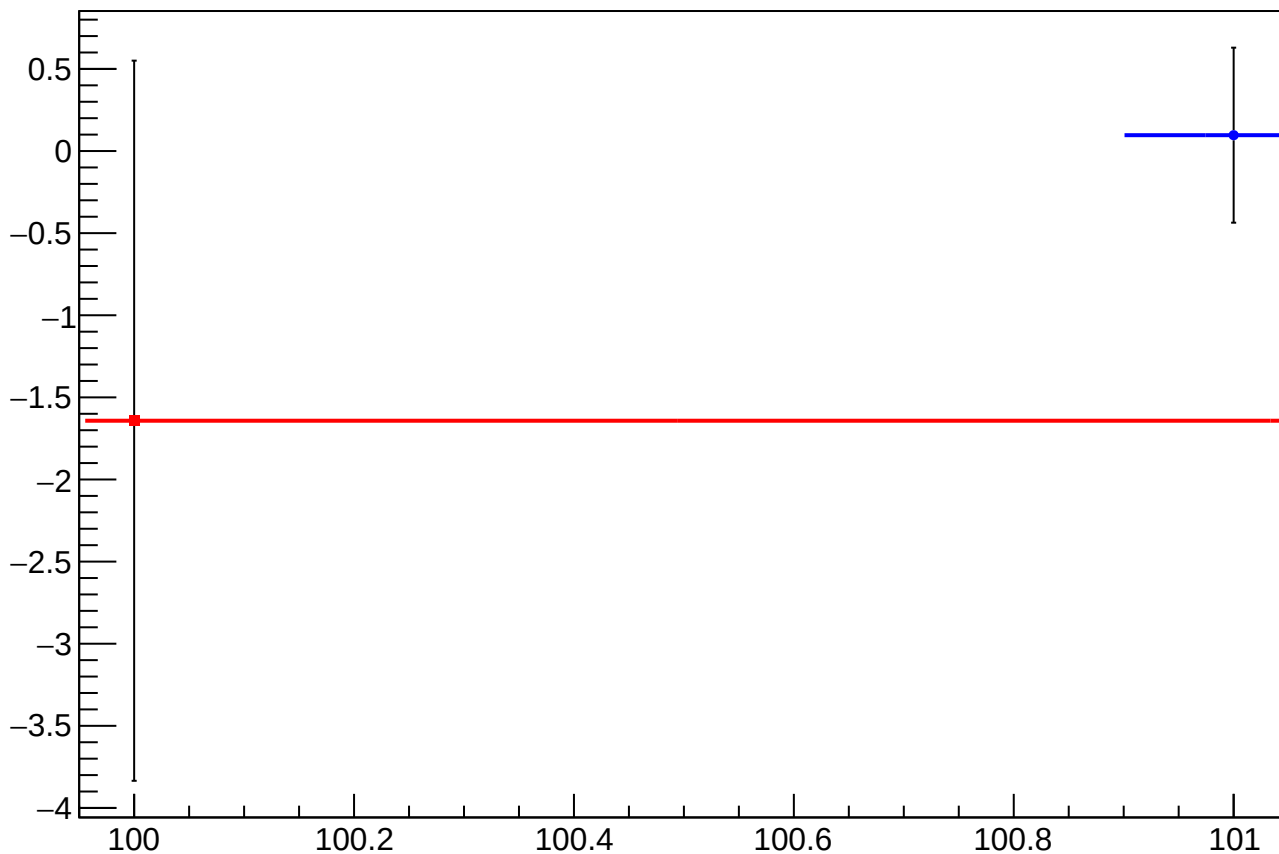
In: 11732.968+/-10.243  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12013.298+/-10.010  $\chi^2/\text{NDF}$ : 16643.2/1



diff\_bpm\_4aX\_4acX\_dd\_mean vs Slug, Sign Corrected



Right In: 0.097 $\pm$ 0.533  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.642 $\pm$ 2.193  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

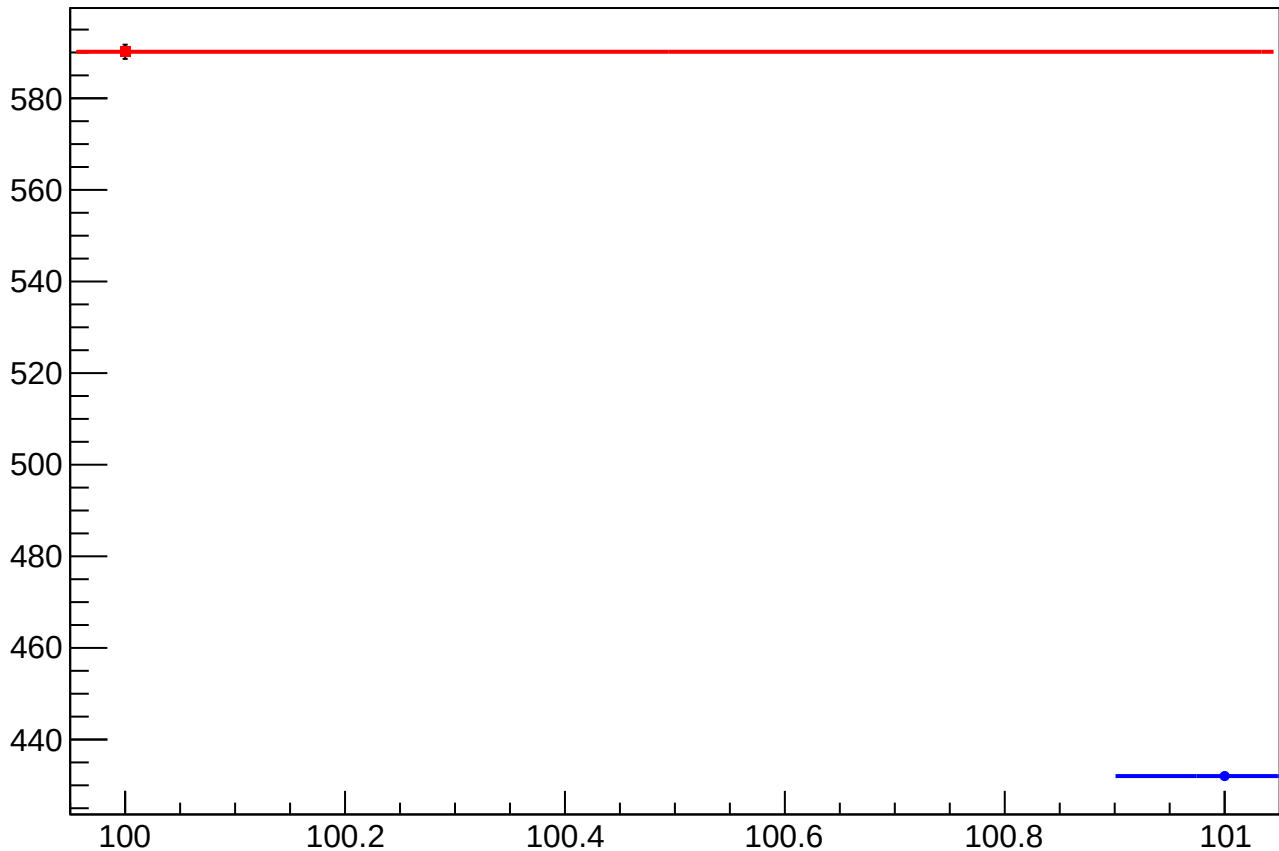
Right: -0.000 $\pm$ 0.518  $\chi^2$ /NDF: 0.6/1

In: 0.097 $\pm$ 0.533  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.000 $\pm$ 0.518  $\chi^2$ /NDF: 0.6/1

diff\_bpm\_4aX\_4acX\_dd\_rms vs Slug, Sign Corrected



Right In: 432.021 $\pm$ 0.377  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 590.155 $\pm$ 1.550  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

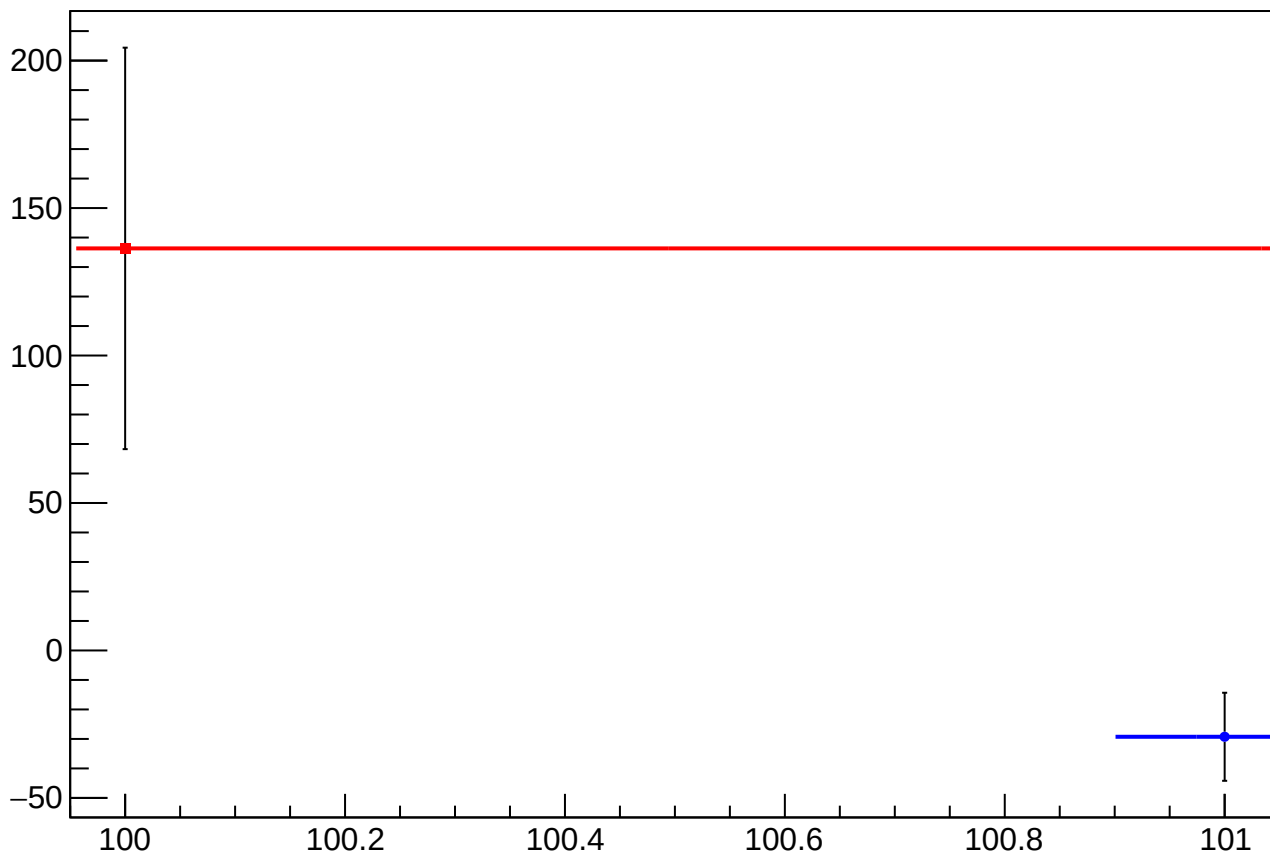
Right: 440.840 $\pm$ 0.366  $\chi^2/\text{NDF}$ : 9823.5/1

In: 432.021 $\pm$ 0.377  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 440.840 $\pm$ 0.366  $\chi^2/\text{NDF}$ : 9823.5/1

diff\_bpm\_4aX\_4eX\_avg\_mean vs Slug, Sign Corrected



Right In: -29.267 $\pm$ 14.926  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 136.320 $\pm$ 68.060  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

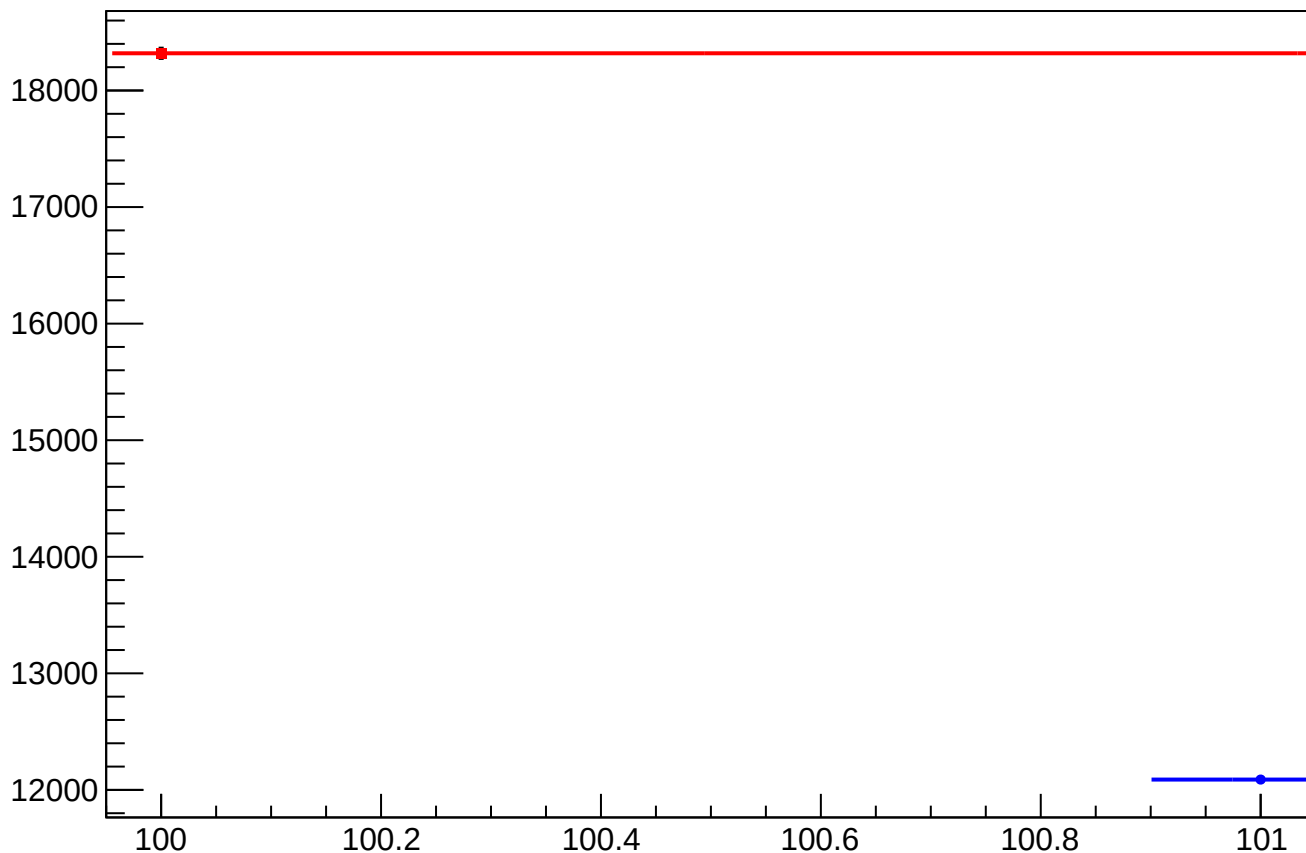
Right: -21.668 $\pm$ 14.580  $\chi^2$ /NDF: 5.6/1

In: -29.267 $\pm$ 14.926  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -21.668 $\pm$ 14.580  $\chi^2$ /NDF: 5.6/1

diff\_bpm\_4aX\_4eX\_avg\_rms vs Slug, Sign Corrected



Right In: 12088.663 $\pm$ 10.554  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18319.295 $\pm$ 48.126  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

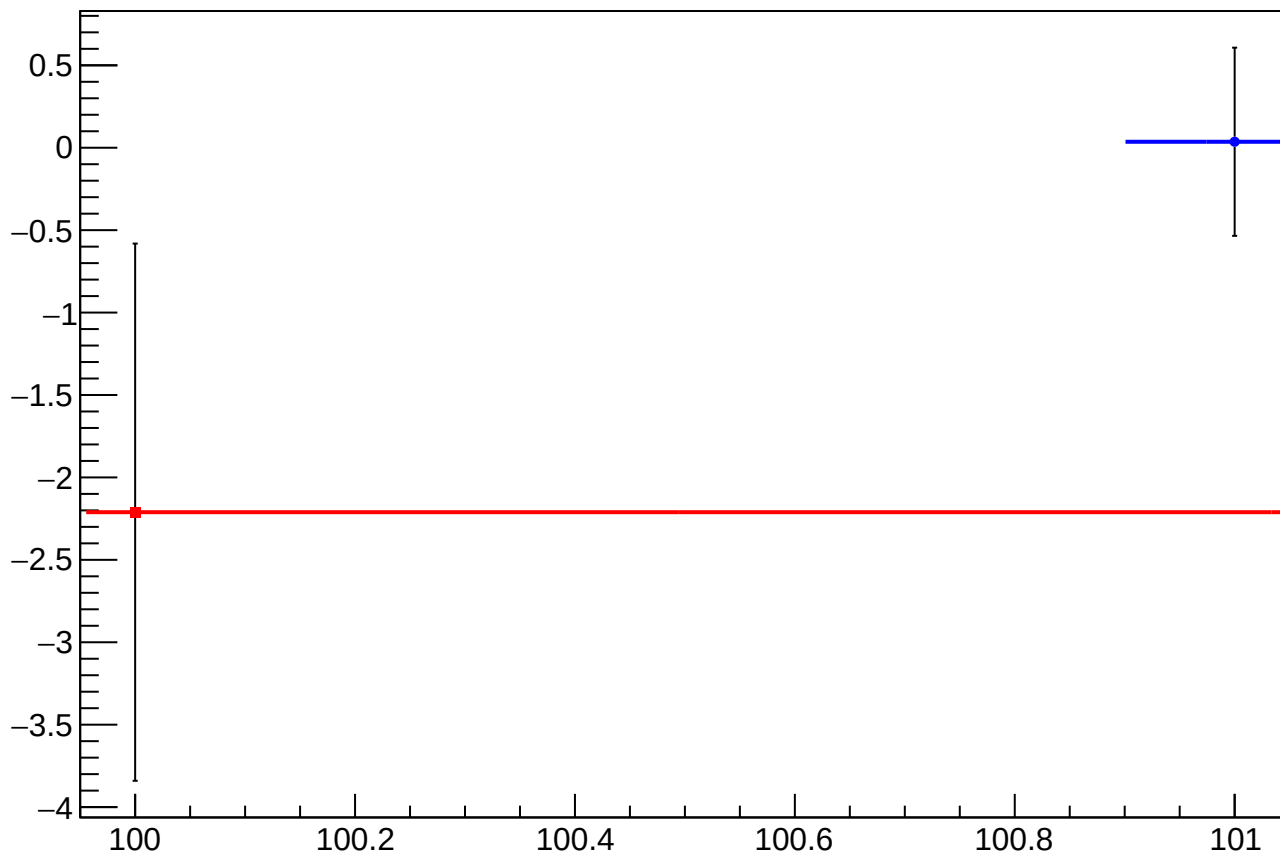
Right: 12374.582 $\pm$ 10.309  $\chi^2$ /NDF: 15992.2/1

In: 12088.663 $\pm$ 10.554  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12374.582 $\pm$ 10.309  $\chi^2$ /NDF: 15992.2/1

diff\_bpm\_4aX\_4eX\_dd\_mean vs Slug, Sign Corrected



Right In: 0.036 $\pm$ 0.571  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.211 $\pm$ 1.629  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

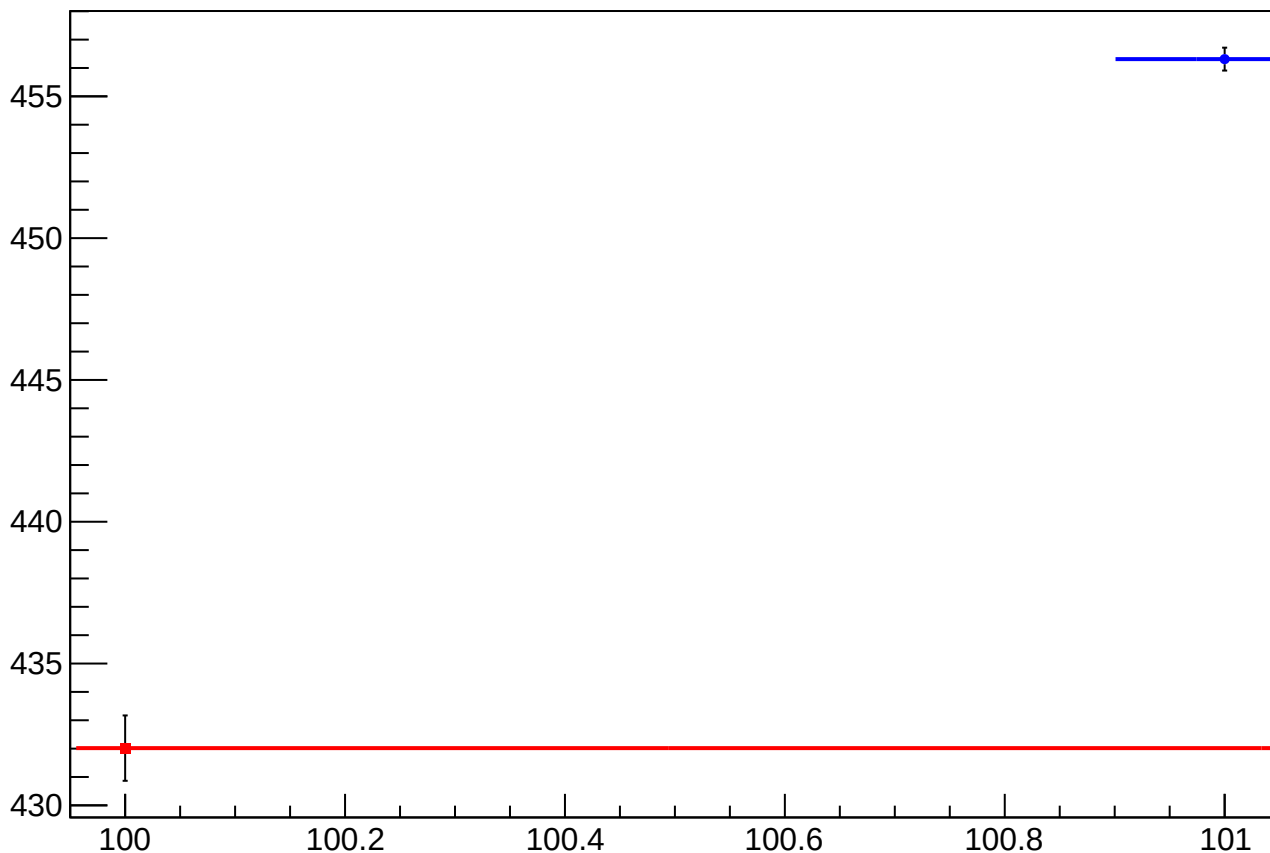
Right: -0.209 $\pm$ 0.539  $\chi^2$ /NDF: 1.7/1

In: 0.036 $\pm$ 0.571  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.209 $\pm$ 0.539  $\chi^2$ /NDF: 1.7/1

diff\_bpm\_4aX\_4eX\_dd\_rms vs Slug, Sign Corrected



Right In: 456.313 $\pm$ 0.404  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 432.018 $\pm$ 1.152  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

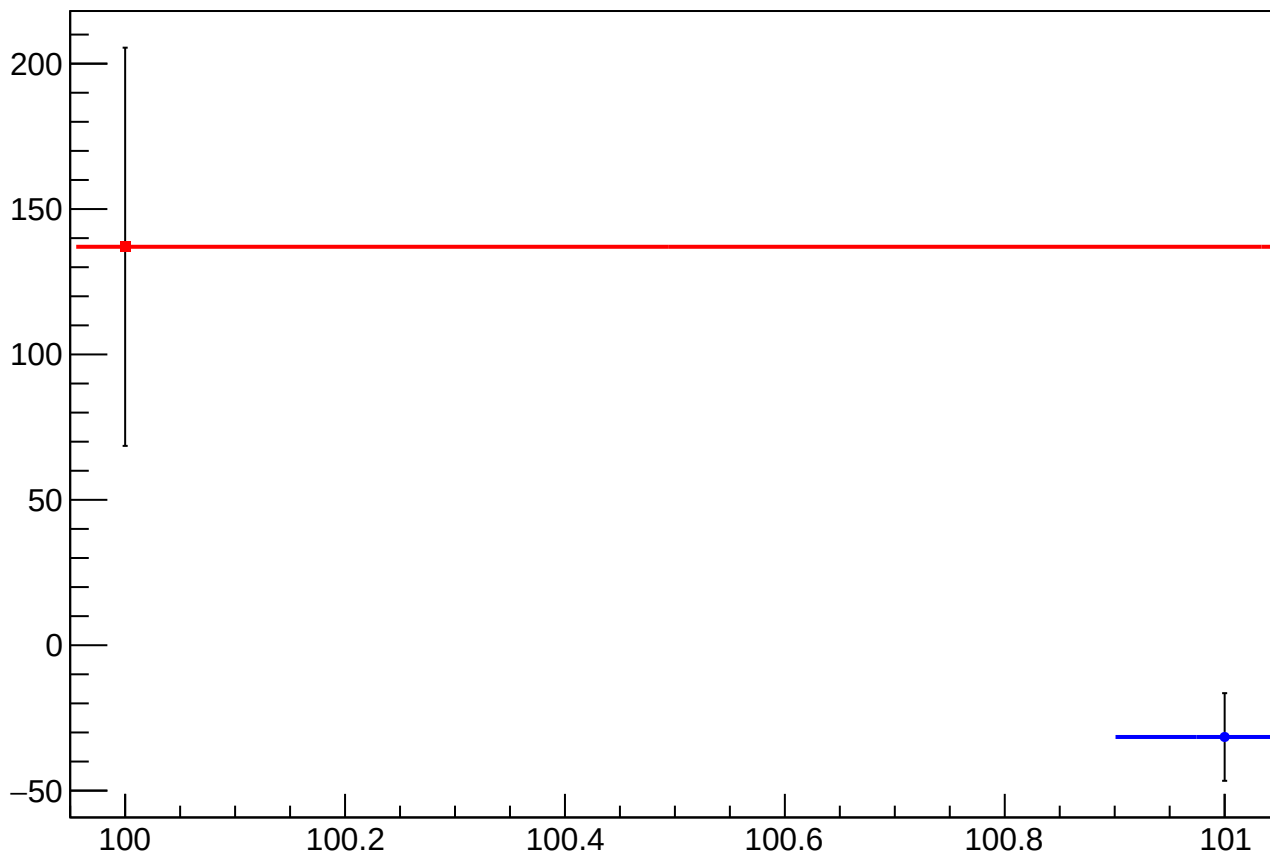
Right: 453.657 $\pm$ 0.381  $\chi^2/\text{NDF}$ : 396.0/1

In: 456.313 $\pm$ 0.404  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 453.657 $\pm$ 0.381  $\chi^2/\text{NDF}$ : 396.0/1

diff\_bpm\_4aX\_4ecX\_avg\_mean vs Slug, Sign Corrected



Right In: -31.552 $\pm$ 15.068  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 137.026 $\pm$ 68.472  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

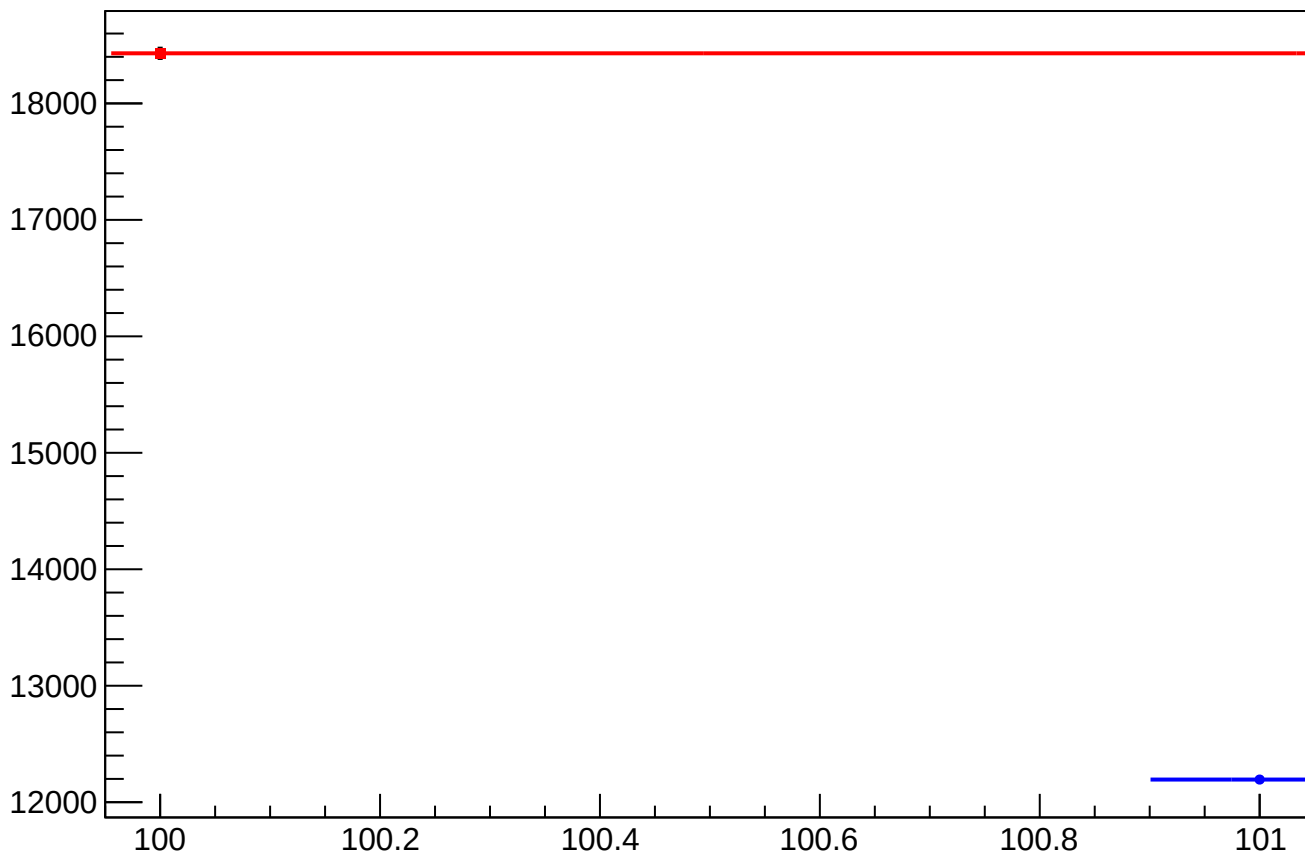
Right: -23.765 $\pm$ 14.716  $\chi^2$ /NDF: 5.8/1

In: -31.552 $\pm$ 15.068  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.765 $\pm$ 14.716  $\chi^2$ /NDF: 5.8/1

diff\_bpm\_4aX\_4ecX\_avg\_rms vs Slug, Sign Corrected



Right In: 12194.408 $\pm$ 10.655  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18430.201 $\pm$ 48.417  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 12482.451 $\pm$ 10.406  $\chi^2/\text{NDF}$ : 15821.5/1

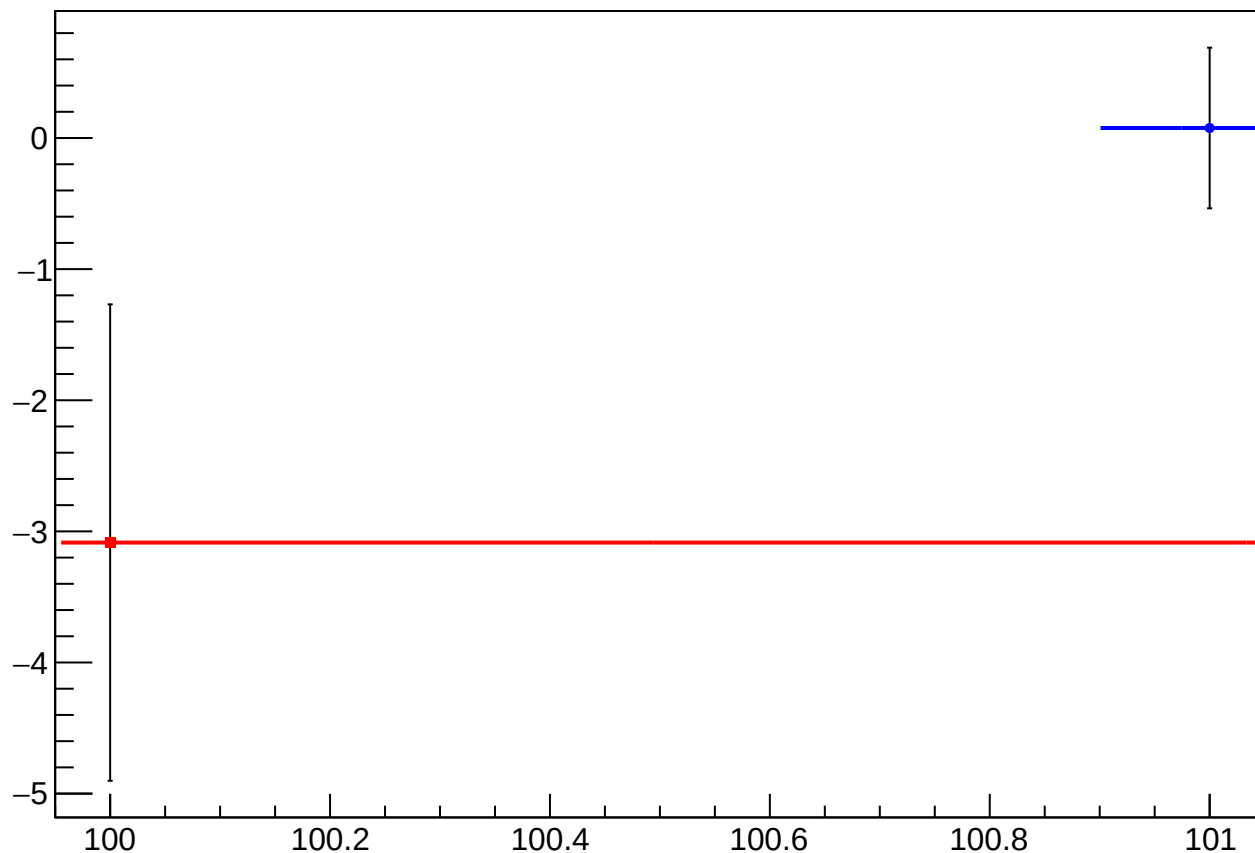
In: 12194.408 $\pm$ 10.655  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12482.451 $\pm$ 10.406  $\chi^2/\text{NDF}$ : 15821.5/1



diff\_bpm\_4aX\_4ecX\_dd\_mean vs Slug, Sign Corrected



Right In: 0.076 $\pm$ 0.613  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.085 $\pm$ 1.817  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

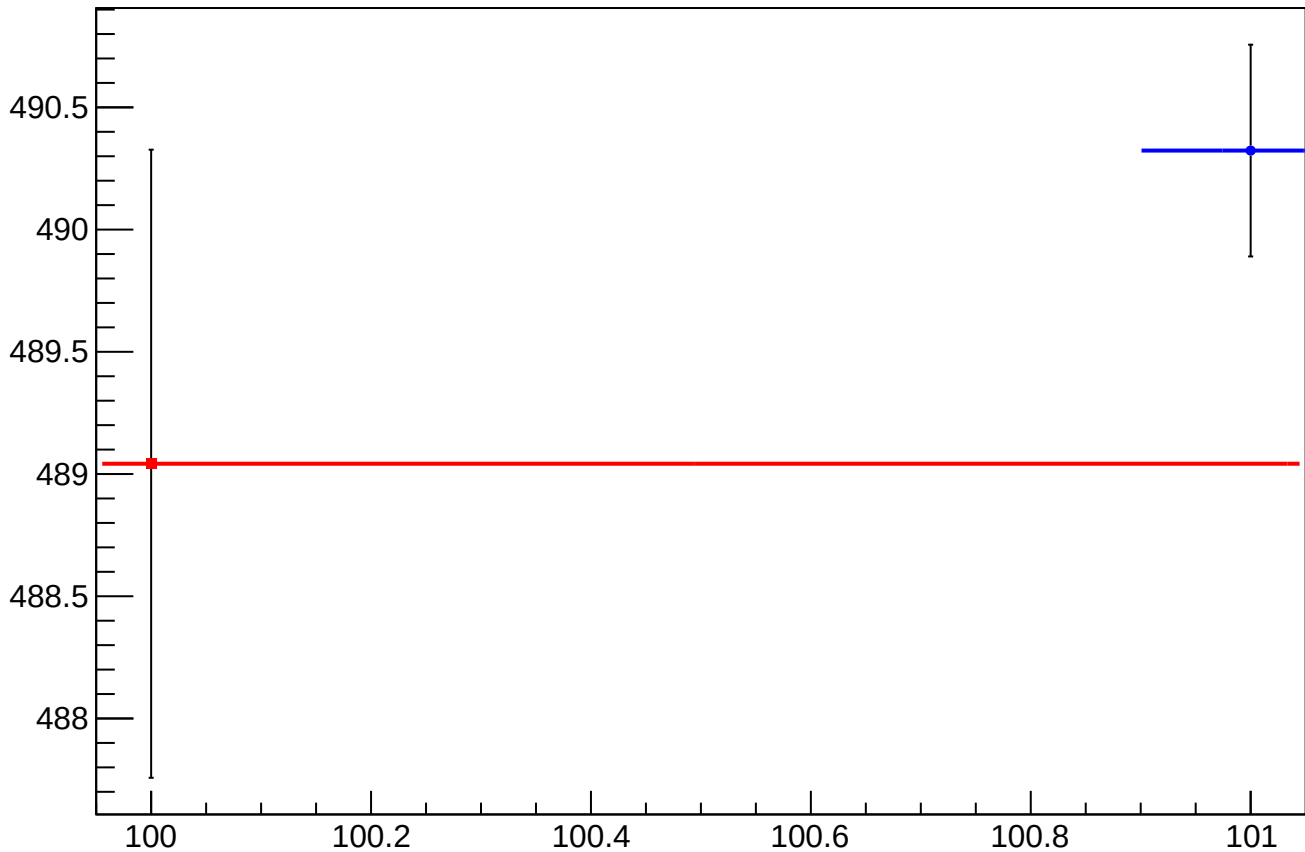
Right: -0.246 $\pm$ 0.581  $\chi^2$ /NDF: 2.7/1

In: 0.076 $\pm$ 0.613  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.246 $\pm$ 0.581  $\chi^2$ /NDF: 2.7/1

diff\_bpm\_4aX\_4ecX\_dd\_rms vs Slug, Sign Corrected



Right In: 490.323 $\pm$ 0.433  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 489.042 $\pm$ 1.285  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

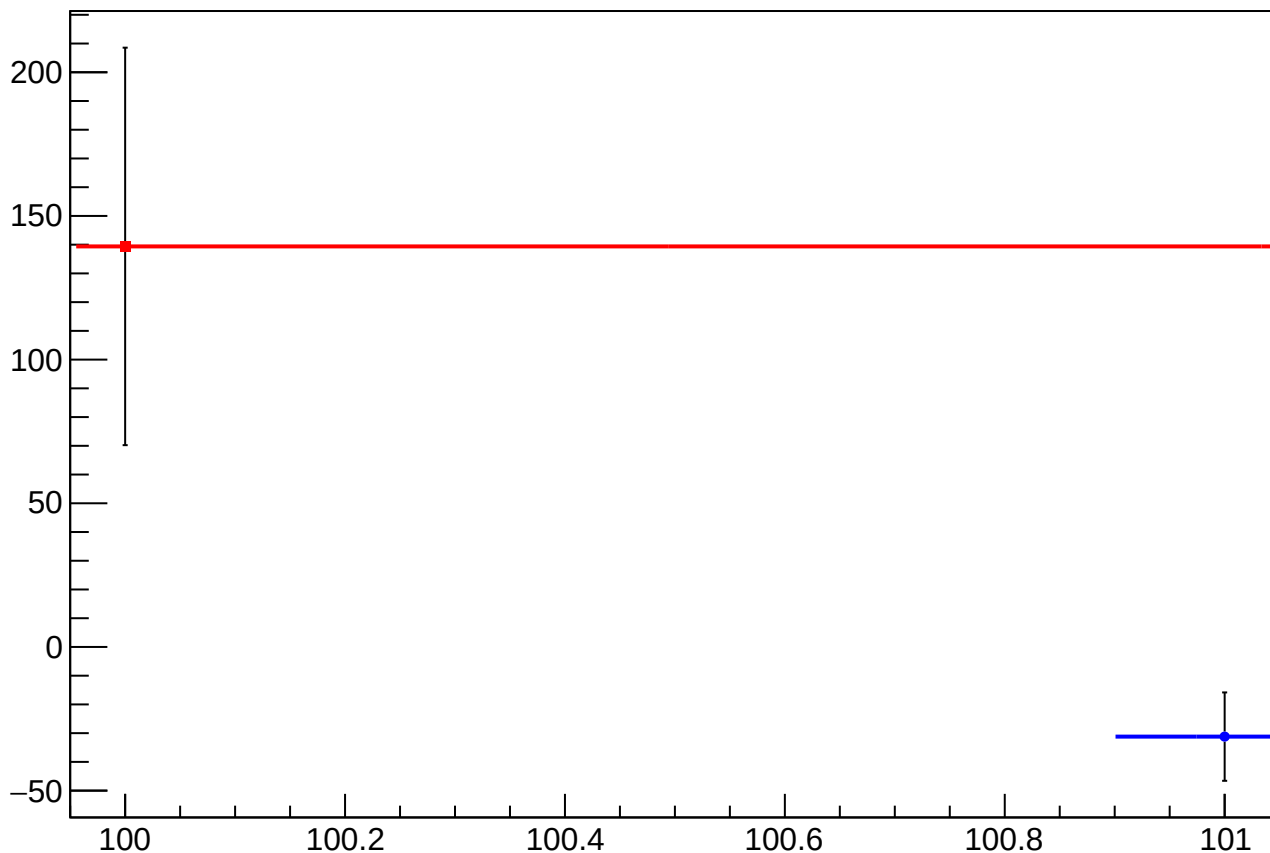
Right: 490.192 $\pm$ 0.411  $\chi^2$ /NDF: 0.9/1

In: 490.323 $\pm$ 0.433  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 490.192 $\pm$ 0.411  $\chi^2$ /NDF: 0.9/1

diff\_bpm\_4eX\_4ecX\_avg\_mean vs Slug, Sign Corrected



Right In: -31.203 $\pm$ 15.377  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 139.394 $\pm$ 69.165  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

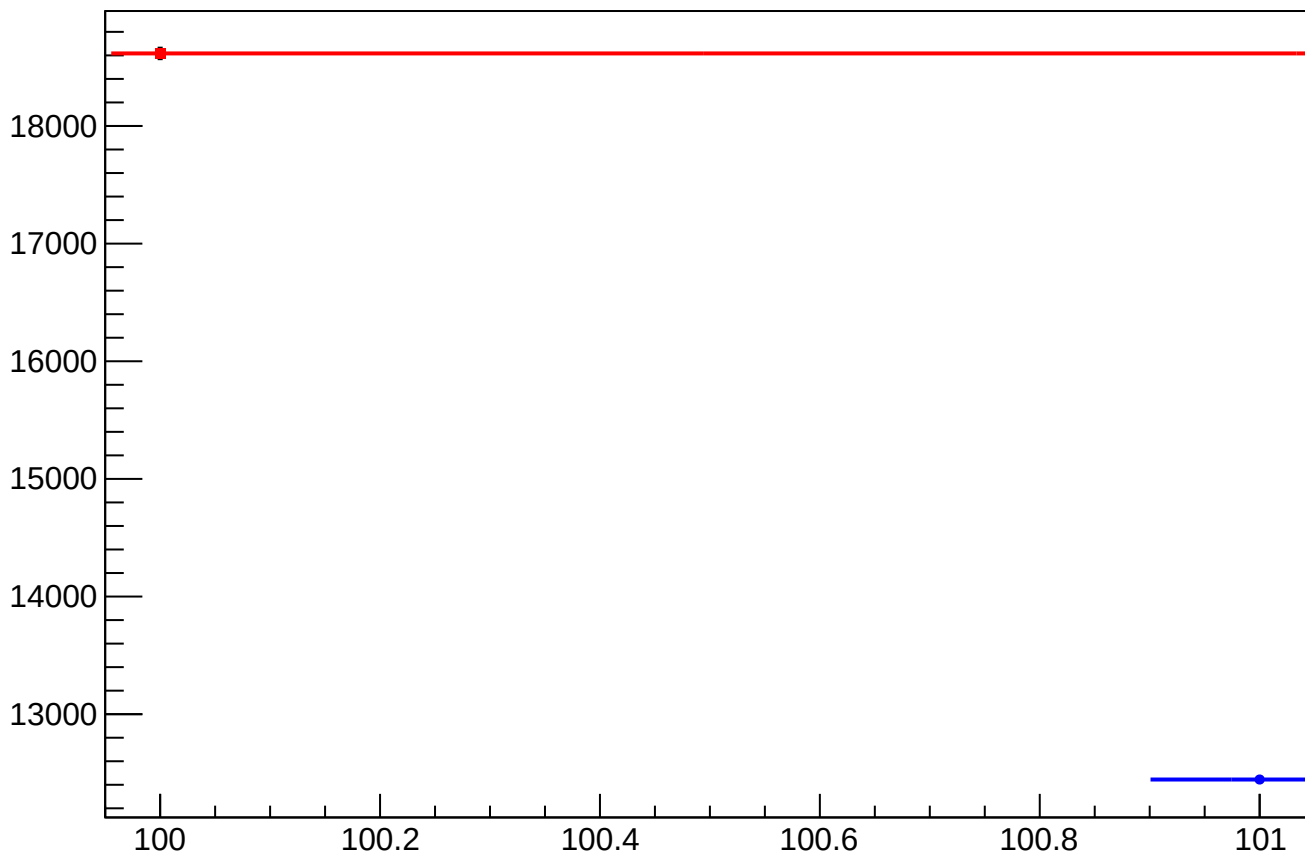
Right: -23.168 $\pm$ 15.011  $\chi^2$ /NDF: 5.8/1

In: -31.203 $\pm$ 15.377  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.168 $\pm$ 15.011  $\chi^2$ /NDF: 5.8/1

diff\_bpm\_4eX\_4ecX\_avg\_rms vs Slug, Sign Corrected



Right In: 12444.717+/-10.873  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18616.703+/-48.907  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

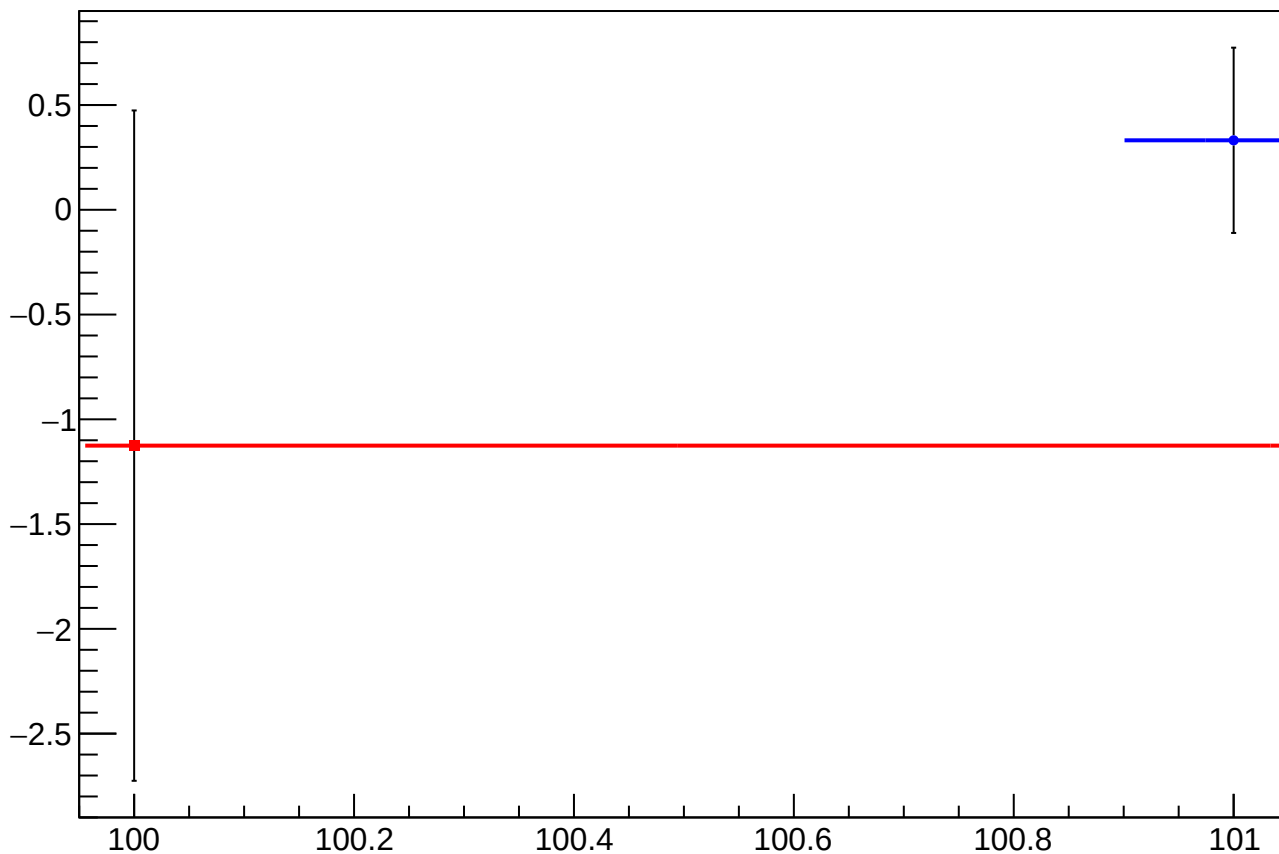
Right: 12735.416+/-10.614  $\chi^2/\text{NDF}$ : 15175.9/1

In: 12444.717+/-10.873  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12735.416+/-10.614  $\chi^2/\text{NDF}$ : 15175.9/1

diff\_bpm\_4eX\_4ecX\_dd\_mean vs Slug, Sign Corrected



Right In: 0.332 $\pm$ 0.442  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.126 $\pm$ 1.600  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

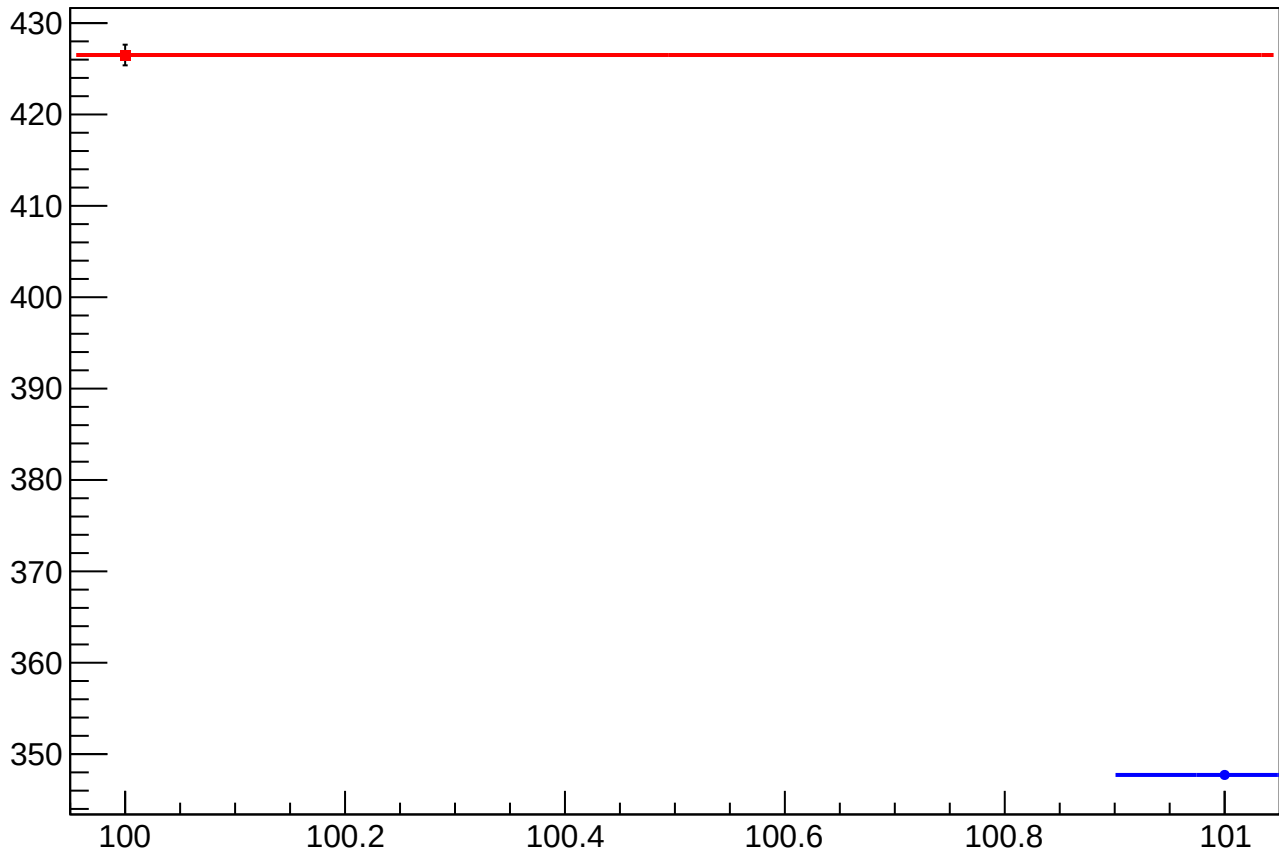
Right: 0.228 $\pm$ 0.426  $\chi^2$ /NDF: 0.8/1

In: 0.332 $\pm$ 0.442  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.228 $\pm$ 0.426  $\chi^2$ /NDF: 0.8/1

diff\_bpm\_4eX\_4ecX\_dd\_rms vs Slug, Sign Corrected



Right In: 347.720 $\pm$ 0.313  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 426.508 $\pm$ 1.131  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

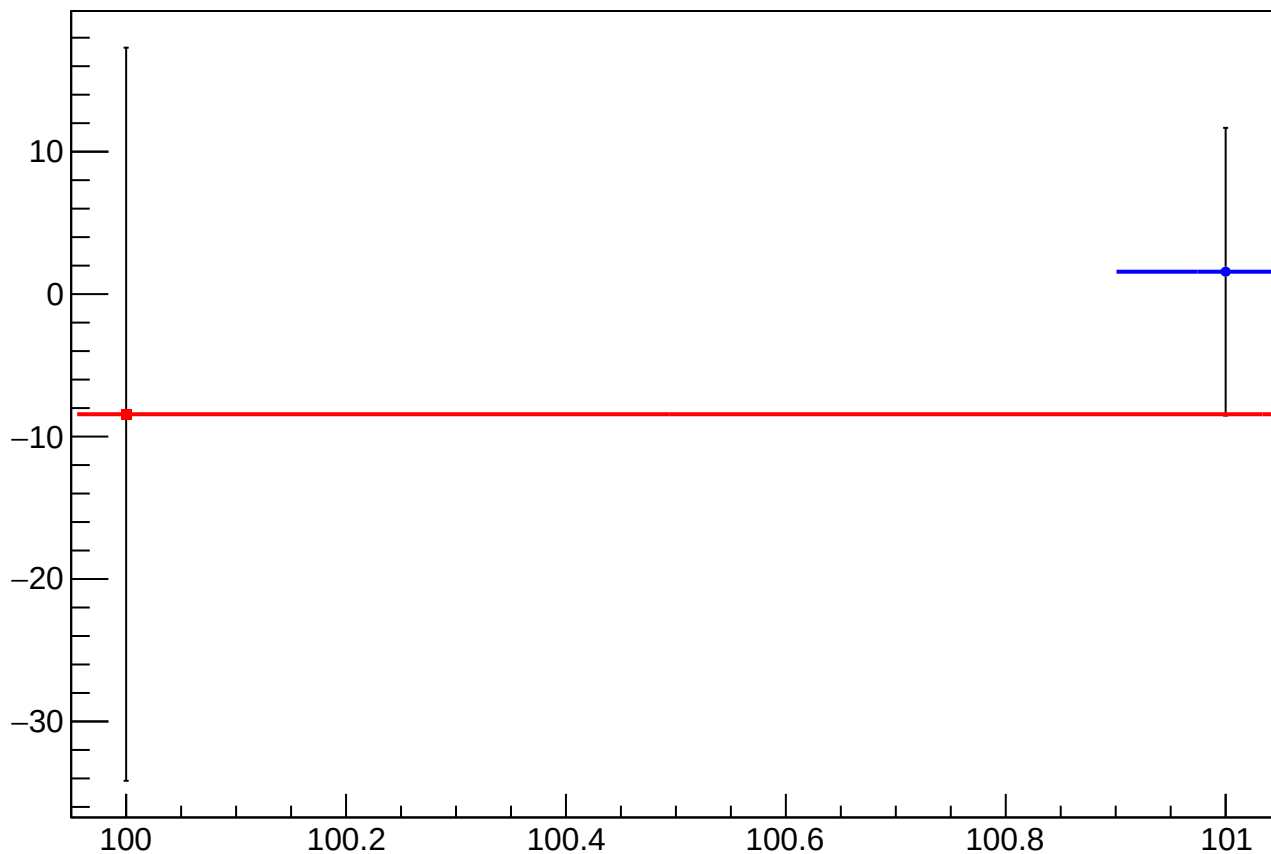
Right: 353.312 $\pm$ 0.301  $\chi^2$ /NDF: 4507.6/1

In: 347.720 $\pm$ 0.313  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 353.312 $\pm$ 0.301  $\chi^2$ /NDF: 4507.6/1

diff\_bpm\_4aY\_4acY\_avg\_mean vs Slug, Sign Corrected



Right In: 1.573+/-10.099  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.432+/-25.733  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

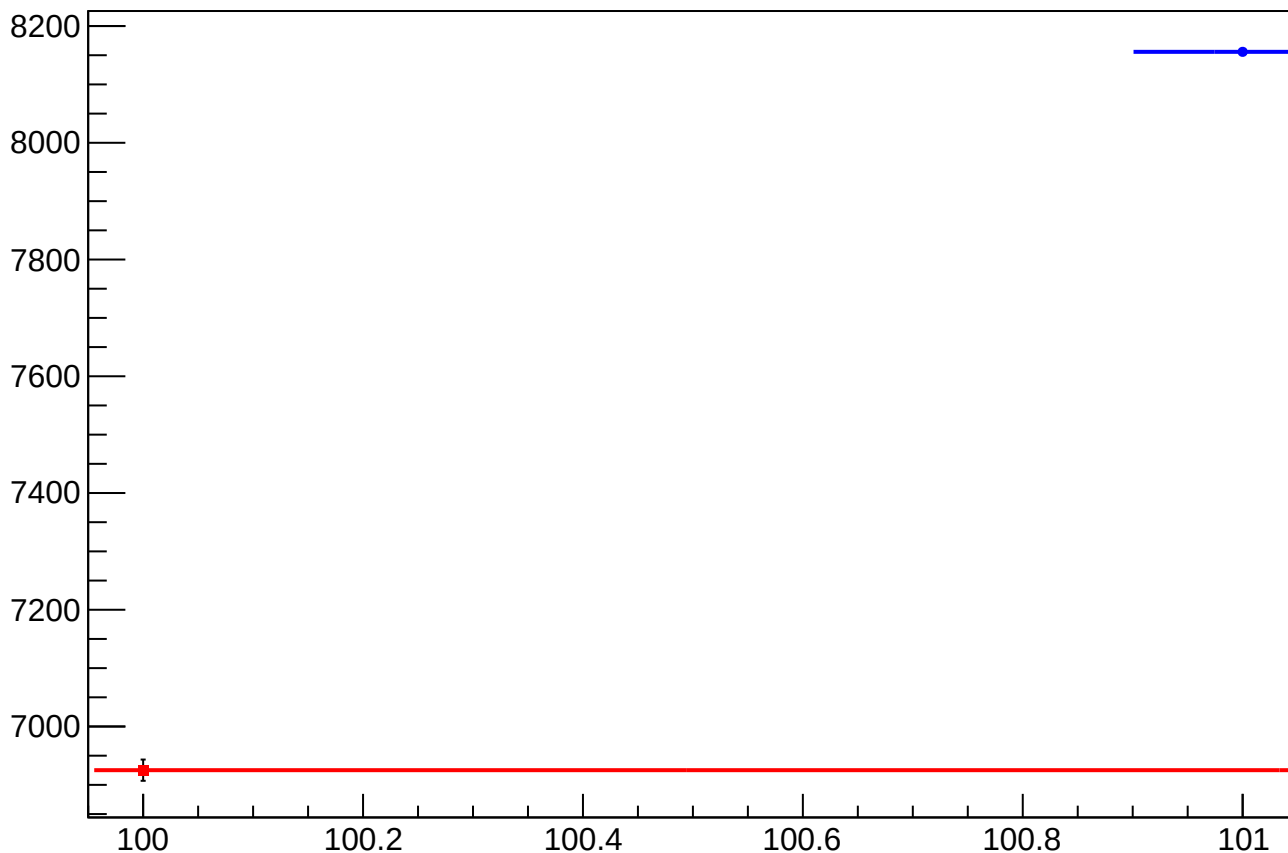
Right: 0.238+/-9.401  $\chi^2/\text{NDF}$ : 0.1/1

In: 1.573+/-10.099  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.238+/-9.401  $\chi^2/\text{NDF}$ : 0.1/1

diff\_bpm\_4aY\_4acY\_avg\_rms vs Slug, Sign Corrected



Right In: 8155.815+/-7.141  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6925.169+/-18.196  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 7991.568+/-6.648  $\chi^2/\text{NDF}$ : 3963.7/1

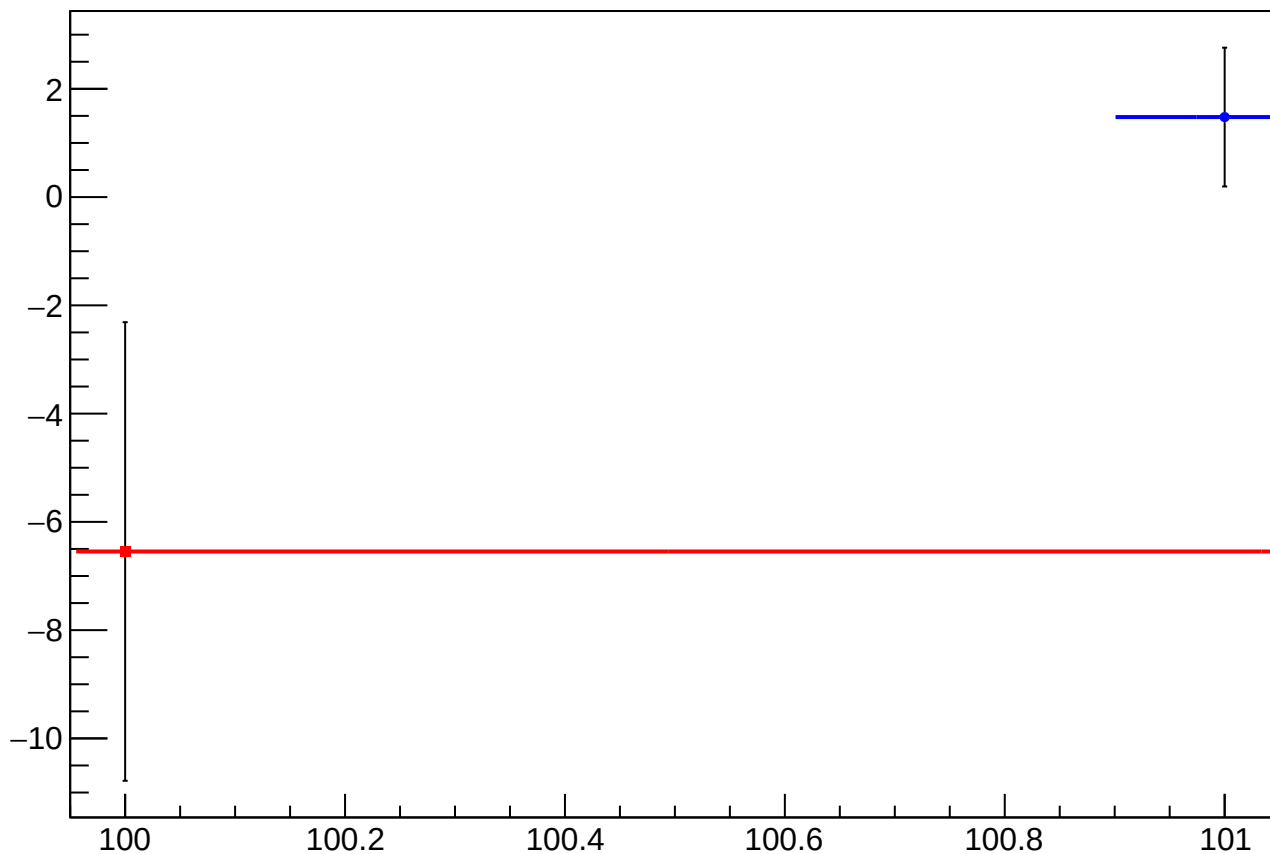
In: 8155.815+/-7.141  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7991.568+/-6.648  $\chi^2/\text{NDF}$ : 3963.7/1



diff\_bpm\_4aY\_4acY\_dd\_mean vs Slug, Sign Corrected



Right In: 1.478+/-1.282  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.547+/-4.236  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

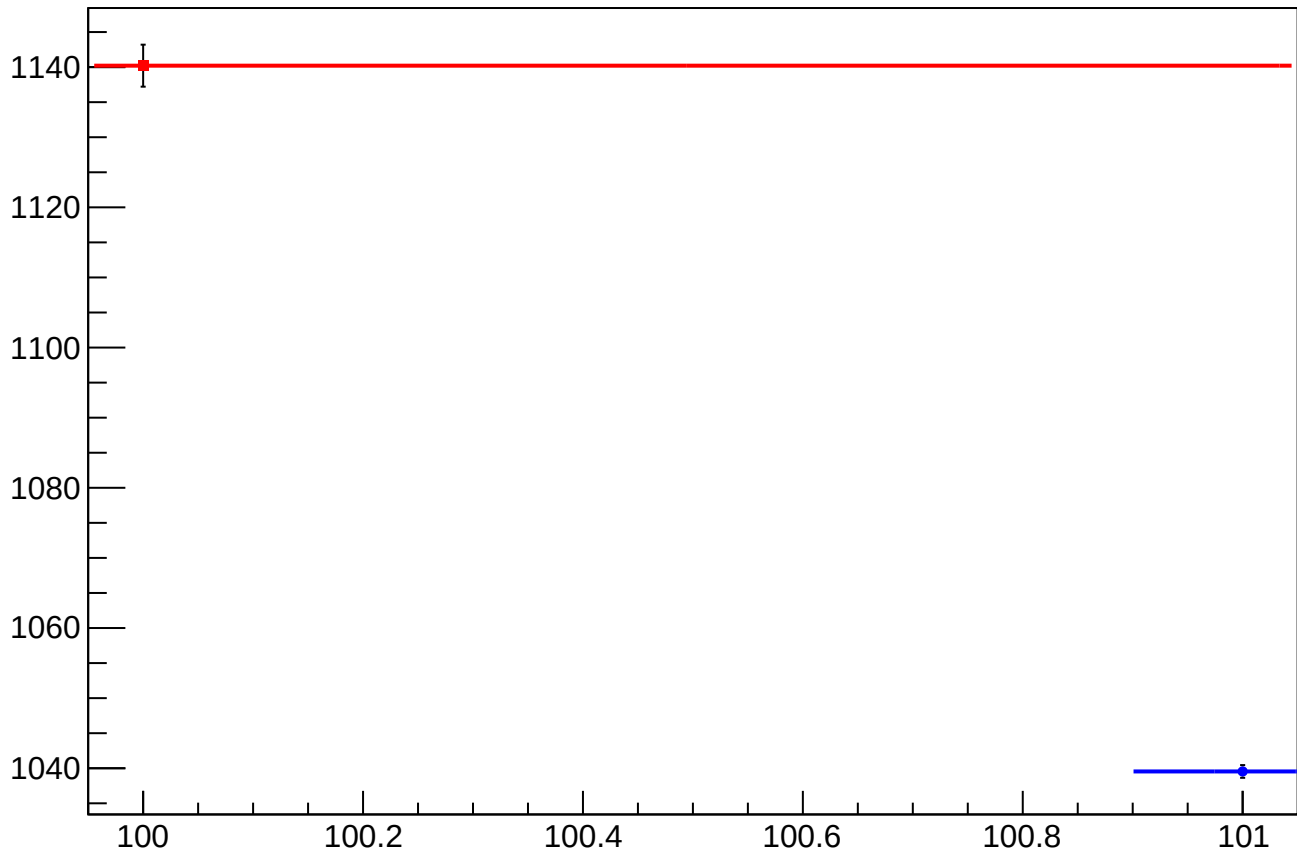
Right: 0.805+/-1.227  $\chi^2/\text{NDF}$ : 3.3/1

In: 1.478+/-1.282  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.805+/-1.227  $\chi^2/\text{NDF}$ : 3.3/1

diff\_bpm\_4aY\_4acY\_dd\_rms vs Slug, Sign Corrected



Right In: 1039.545 $\pm$ 0.907  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1140.205 $\pm$ 2.995  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

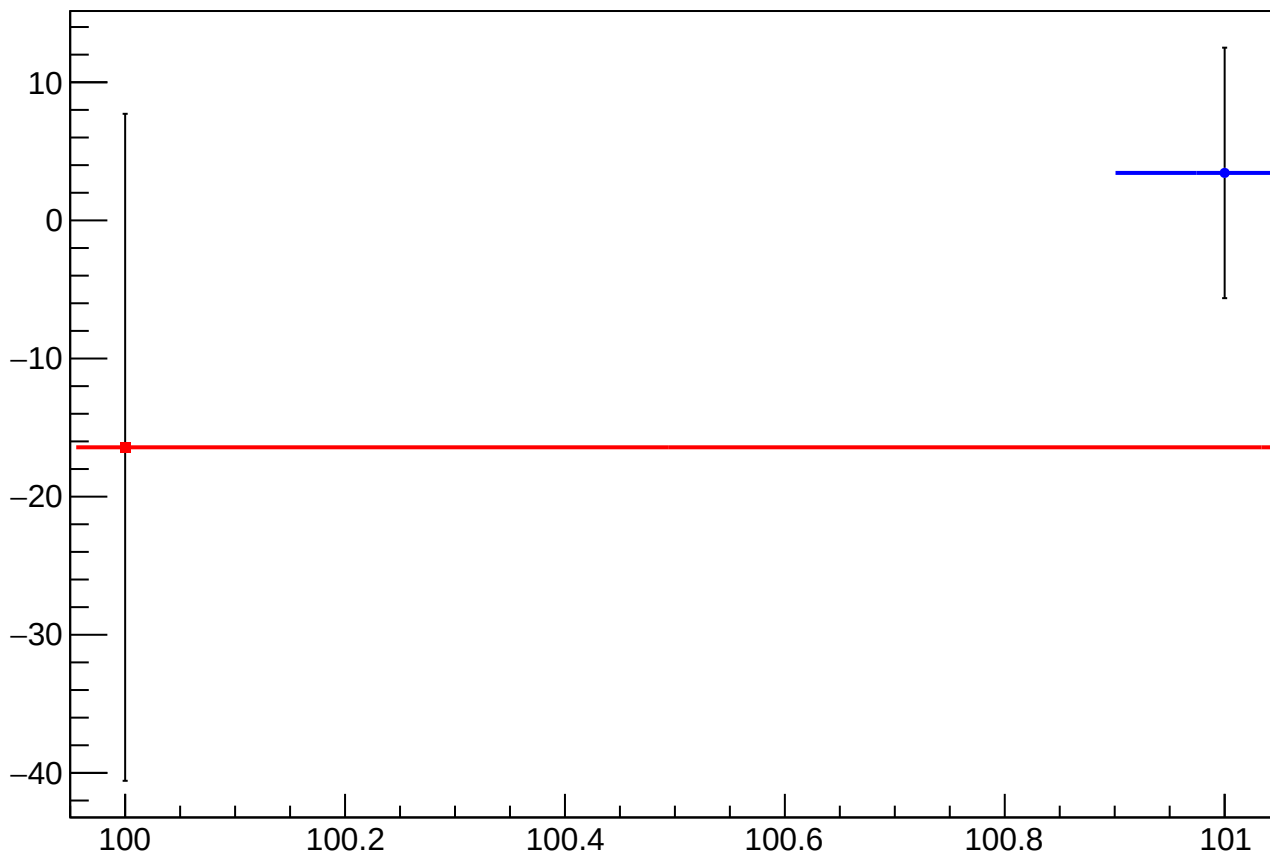
Right: 1047.990 $\pm$ 0.868  $\chi^2/\text{NDF}$ : 1034.5/1

In: 1039.545 $\pm$ 0.907  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1047.990 $\pm$ 0.868  $\chi^2/\text{NDF}$ : 1034.5/1

diff\_bpm\_4aY\_4eY\_avg\_mean vs Slug, Sign Corrected



Right In: 3.438+/-9.067  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -16.428+/-24.144  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

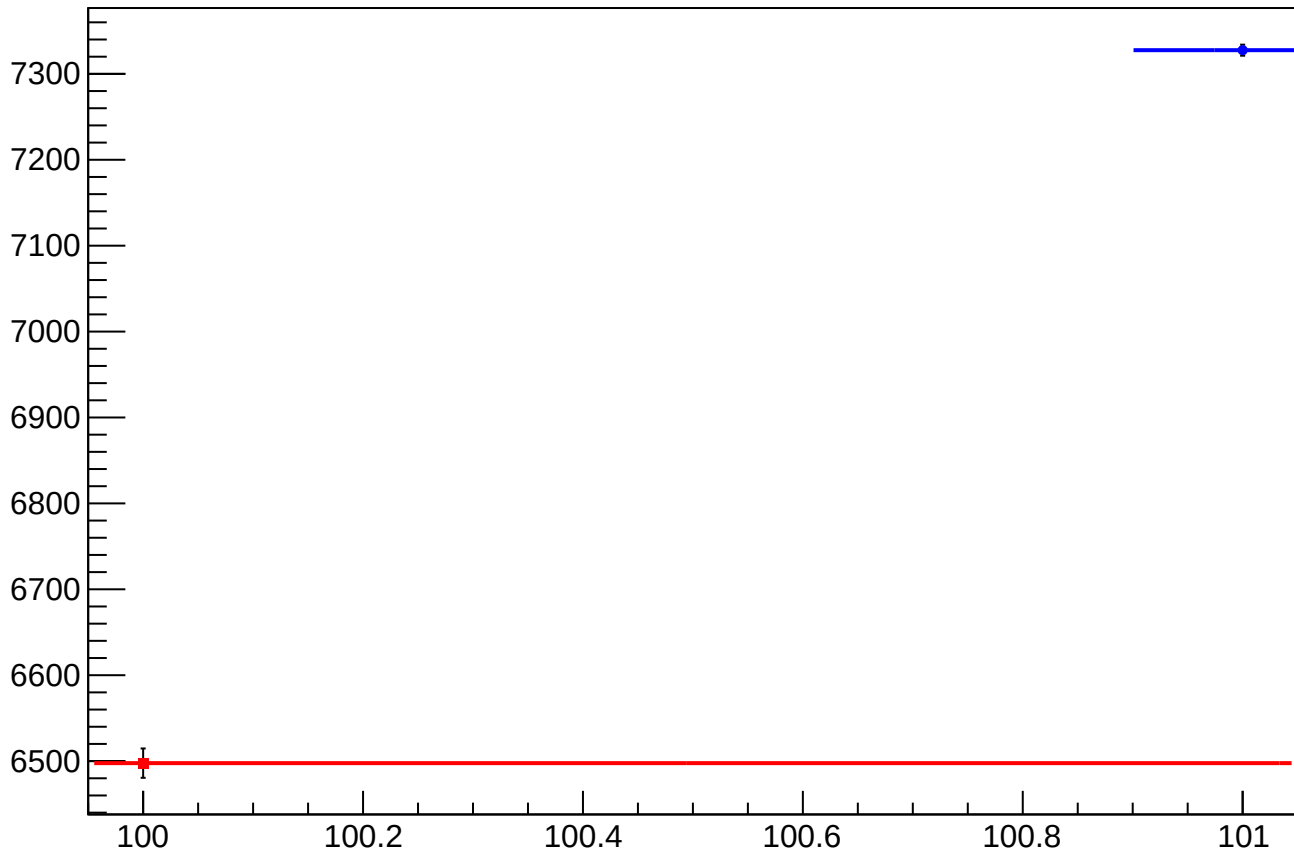
Right: 0.982+/-8.488  $\chi^2/\text{NDF}$ : 0.6/1

In: 3.438+/-9.067  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.982+/-8.488  $\chi^2/\text{NDF}$ : 0.6/1

diff\_bpm\_4aY\_4eY\_avg\_rms vs Slug, Sign Corrected



Right In: 7327.580 $\pm$ 6.412  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6497.642 $\pm$ 17.073  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

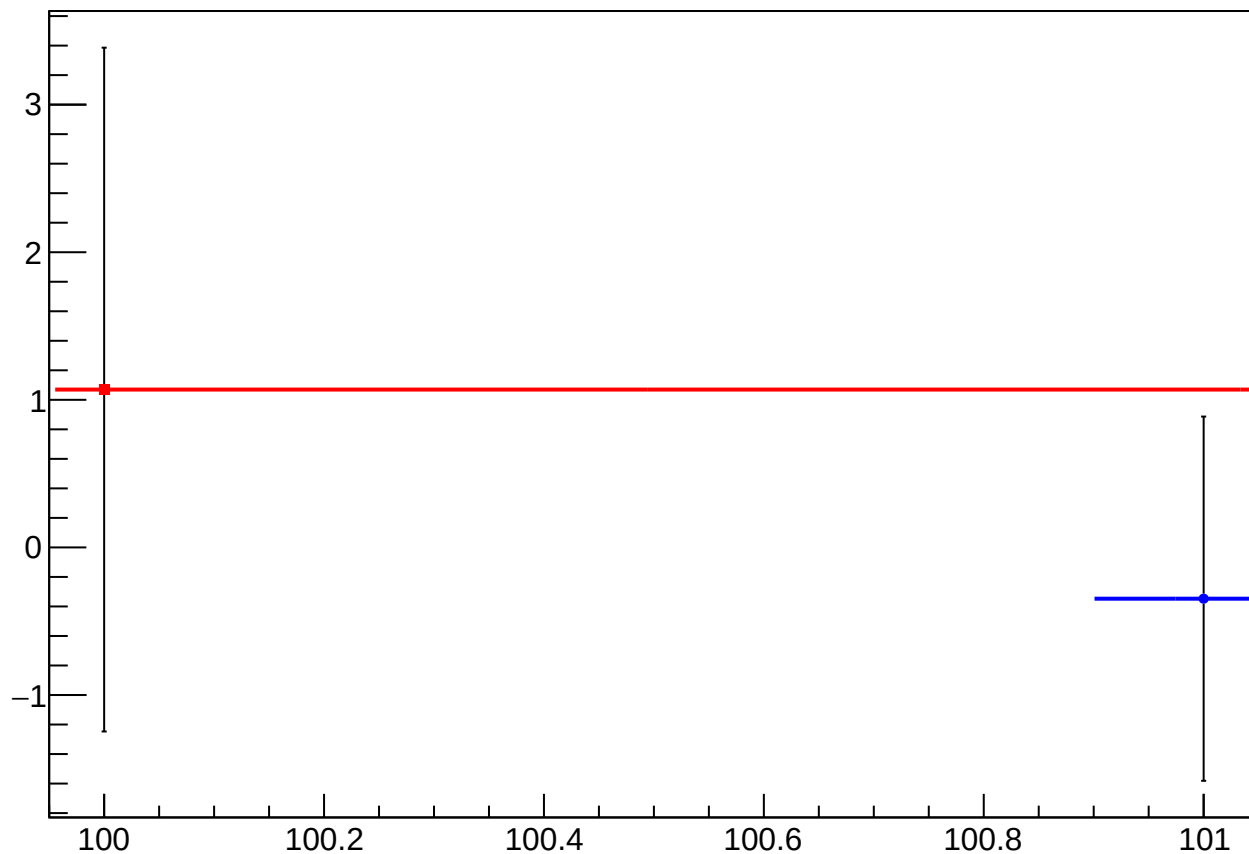
Right: 7224.997 $\pm$ 6.002  $\chi^2$ /NDF: 2071.1/1

In: 7327.580 $\pm$ 6.412  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7224.997 $\pm$ 6.002  $\chi^2$ /NDF: 2071.1/1

diff\_bpm\_4aY\_4eY\_dd\_mean vs Slug, Sign Corrected



Right In: -0.347 $\pm$ 1.234  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.069 $\pm$ 2.316  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

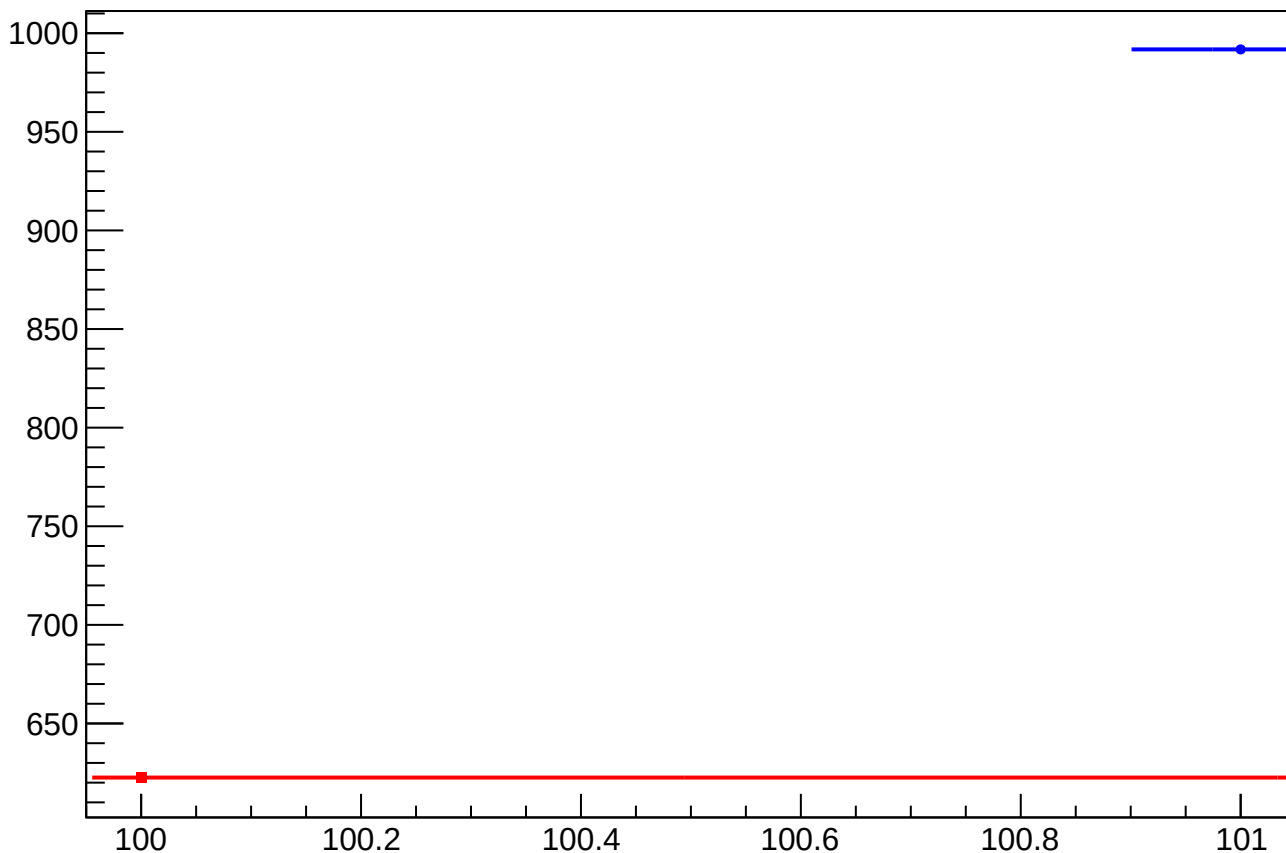
Right: -0.034 $\pm$ 1.089  $\chi^2$ /NDF: 0.3/1

In: -0.347 $\pm$ 1.234  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.034 $\pm$ 1.089  $\chi^2$ /NDF: 0.3/1

diff\_bpm\_4aY\_4eY\_dd\_rms vs Slug, Sign Corrected



Right In: 991.795 $\pm$ 0.872  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 622.575 $\pm$ 1.638  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

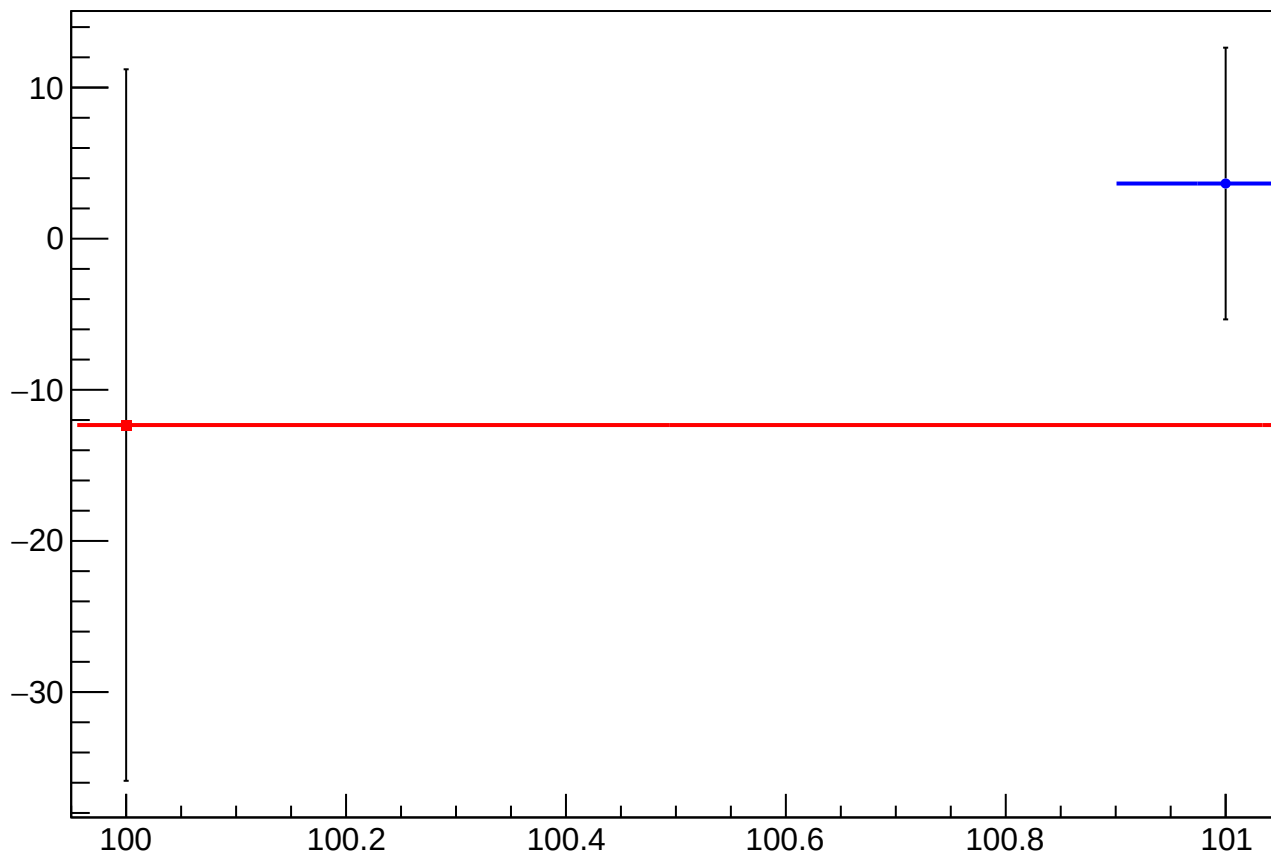
Right: 910.193 $\pm$ 0.770  $\chi^2/\text{NDF}$ : 39579.9/1

In: 991.795 $\pm$ 0.872  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 910.193 $\pm$ 0.770  $\chi^2/\text{NDF}$ : 39579.9/1

diff\_bpm\_4aY\_4ecY\_avg\_mean vs Slug, Sign Corrected



Right In: 3.649+/-8.989  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.332+/-23.540  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

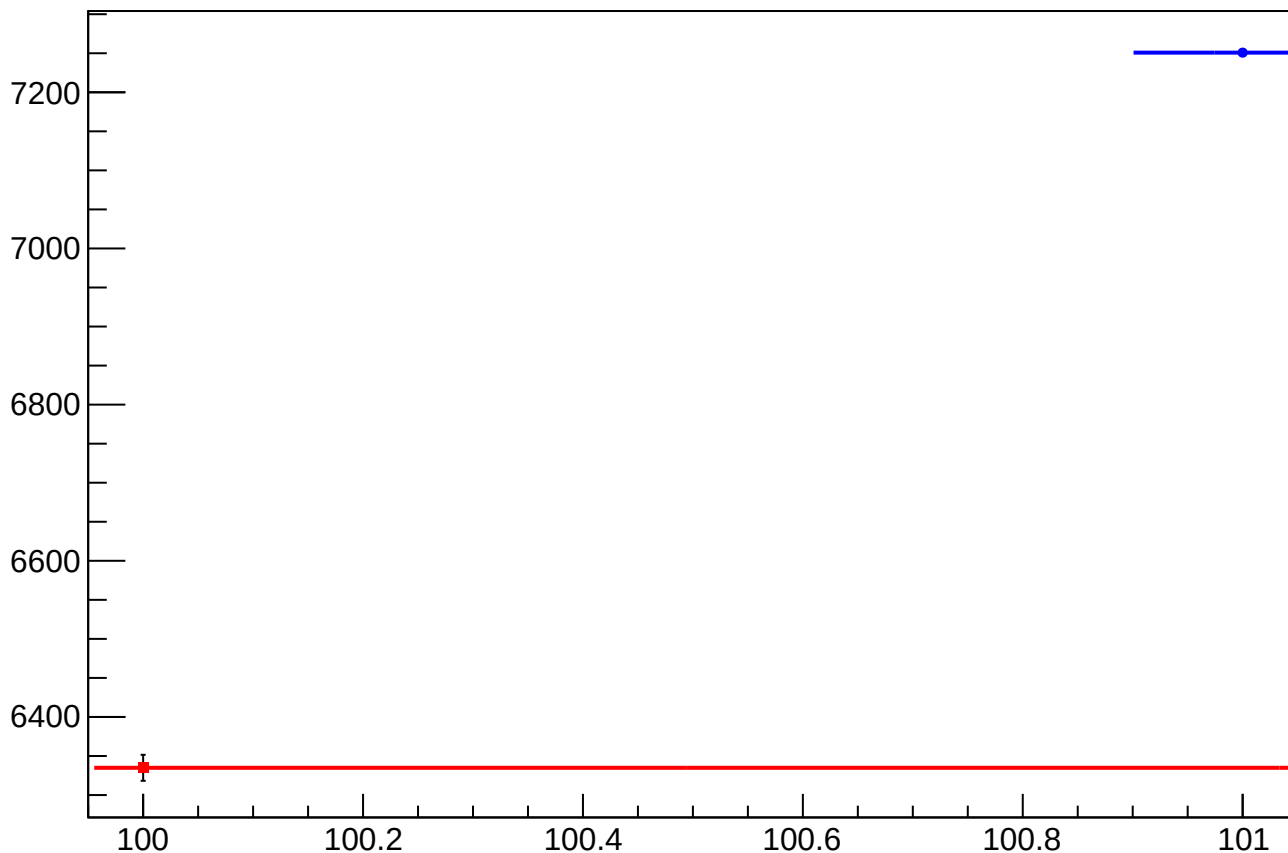
Right: 1.616+/-8.398  $\chi^2/\text{NDF}$ : 0.4/1

In: 3.649+/-8.989  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.616+/-8.398  $\chi^2/\text{NDF}$ : 0.4/1

diff\_bpm\_4aY\_4ecY\_avg\_rms vs Slug, Sign Corrected



Right In: 7250.787 $\pm$ 6.356  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6334.901 $\pm$ 16.645  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 7134.222 $\pm$ 5.938  $\chi^2$ /NDF: 2642.3/1

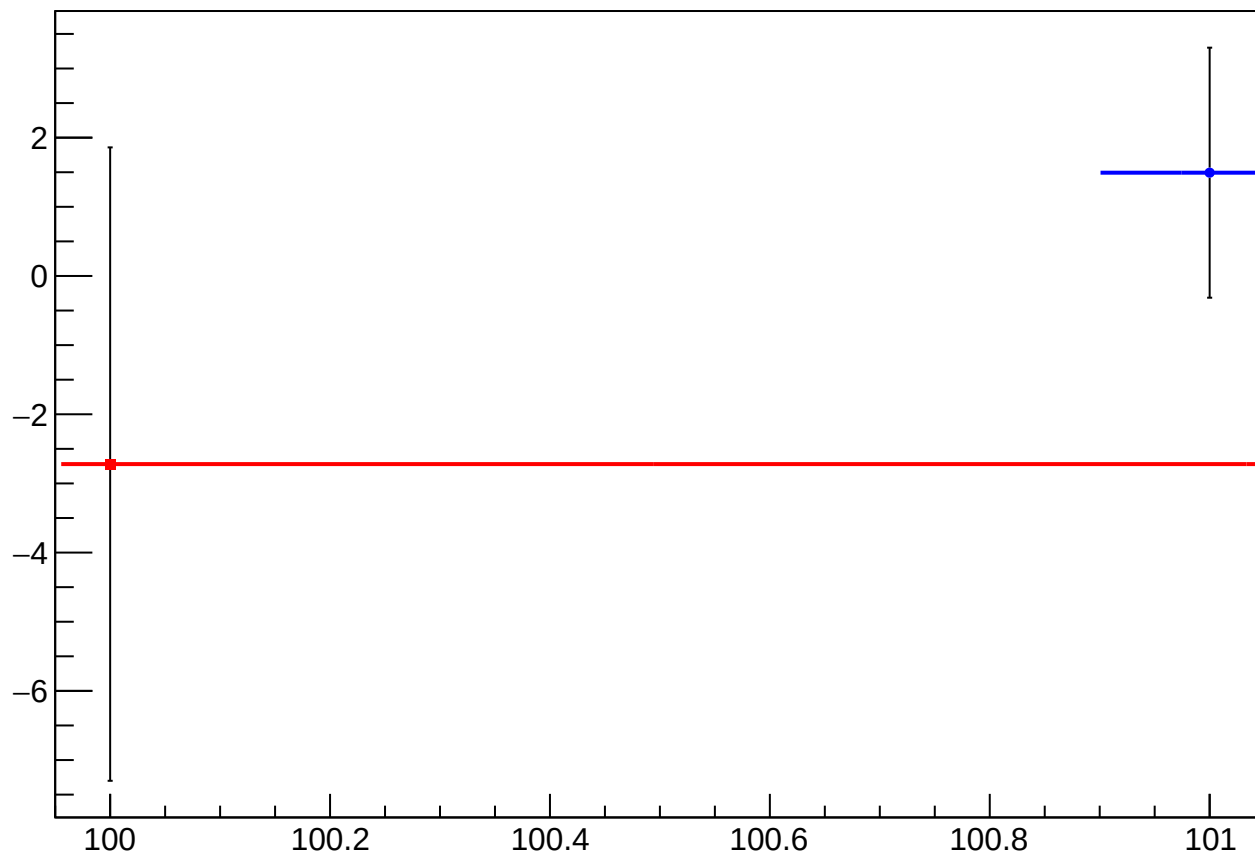
In: 7250.787 $\pm$ 6.356  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7134.222 $\pm$ 5.938  $\chi^2$ /NDF: 2642.3/1



diff\_bpm\_4aY\_4ecY\_dd\_mean vs Slug, Sign Corrected



Right In: 1.493 $\pm$ 1.808  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.720 $\pm$ 4.580  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

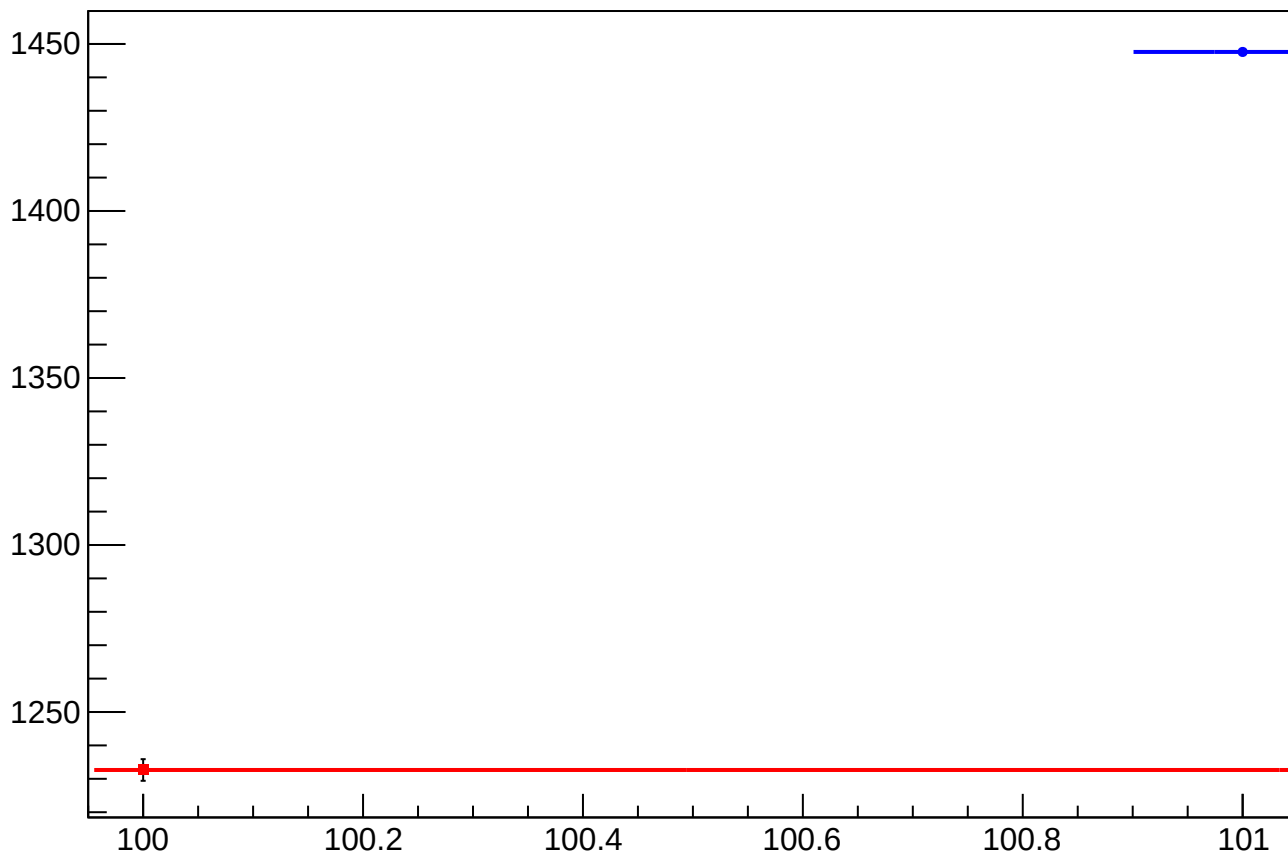
Right: 0.925 $\pm$ 1.682  $\chi^2$ /NDF: 0.7/1

In: 1.493 $\pm$ 1.808  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.925 $\pm$ 1.682  $\chi^2$ /NDF: 0.7/1

diff\_bpm\_4aY\_4ecY\_dd\_rms vs Slug, Sign Corrected



Right In: 1447.616 $\pm$ 1.278  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1232.643 $\pm$ 3.238  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

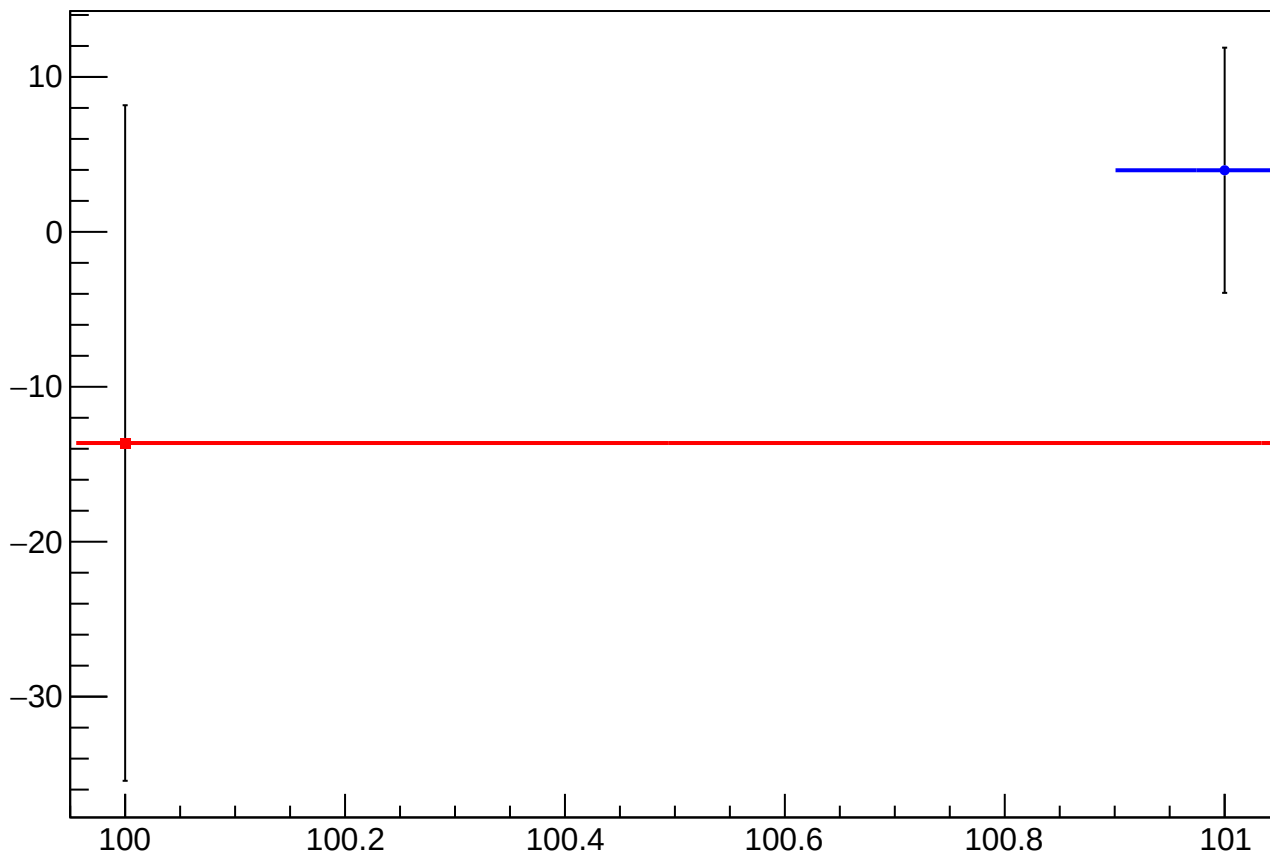
Right: 1418.634 $\pm$ 1.189  $\chi^2$ /NDF: 3812.6/1

In: 1447.616 $\pm$ 1.278  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1418.634 $\pm$ 1.189  $\chi^2$ /NDF: 3812.6/1

diff\_bpm\_4eY\_4ecY\_avg\_mean vs Slug, Sign Corrected



Right In: 3.977+/-7.913  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.629+/-21.803  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

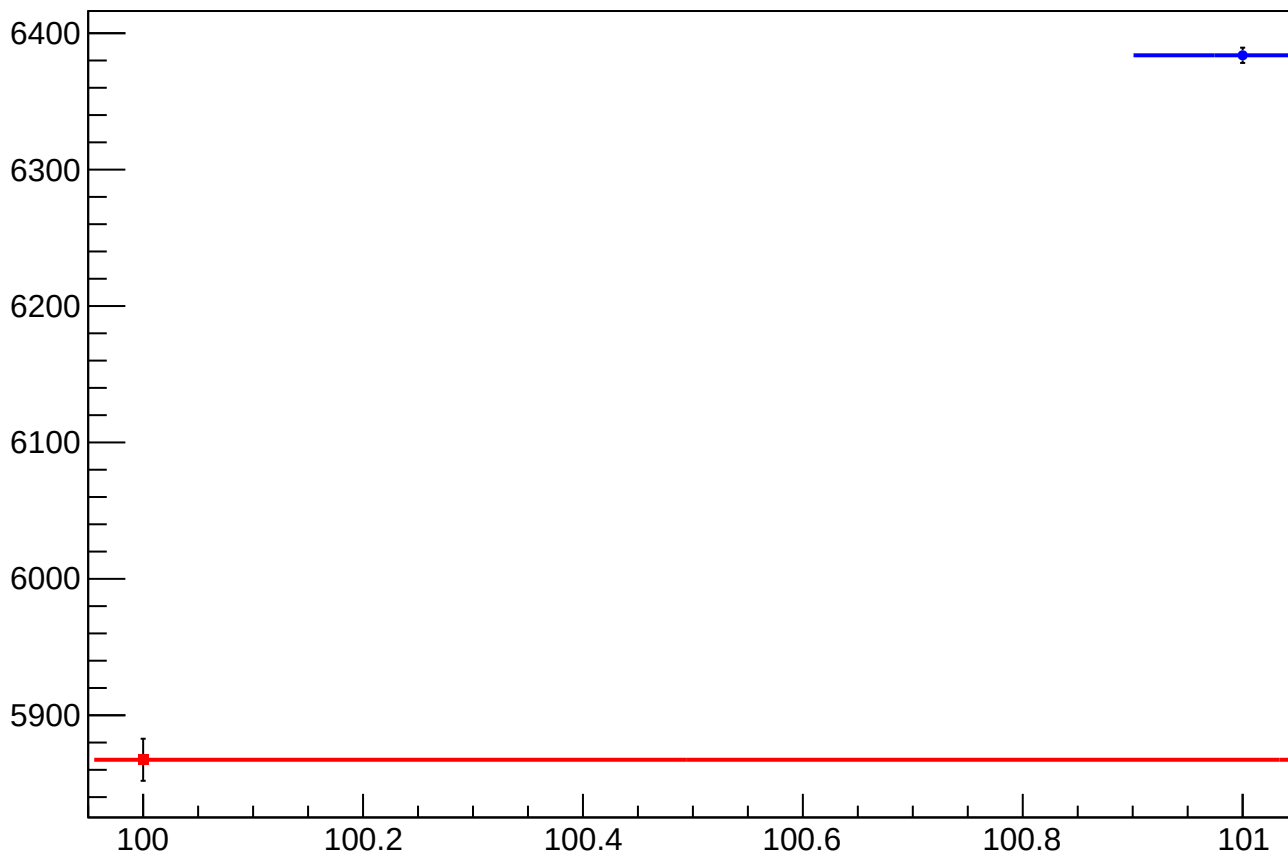
Right: 1.928+/-7.438  $\chi^2/\text{NDF}$ : 0.6/1

In: 3.977+/-7.913  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.928+/-7.438  $\chi^2/\text{NDF}$ : 0.6/1

diff\_bpm\_4eY\_4ecY\_avg\_rms vs Slug, Sign Corrected



Right In: 6383.807 $\pm$ 5.596  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5867.375 $\pm$ 15.417  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

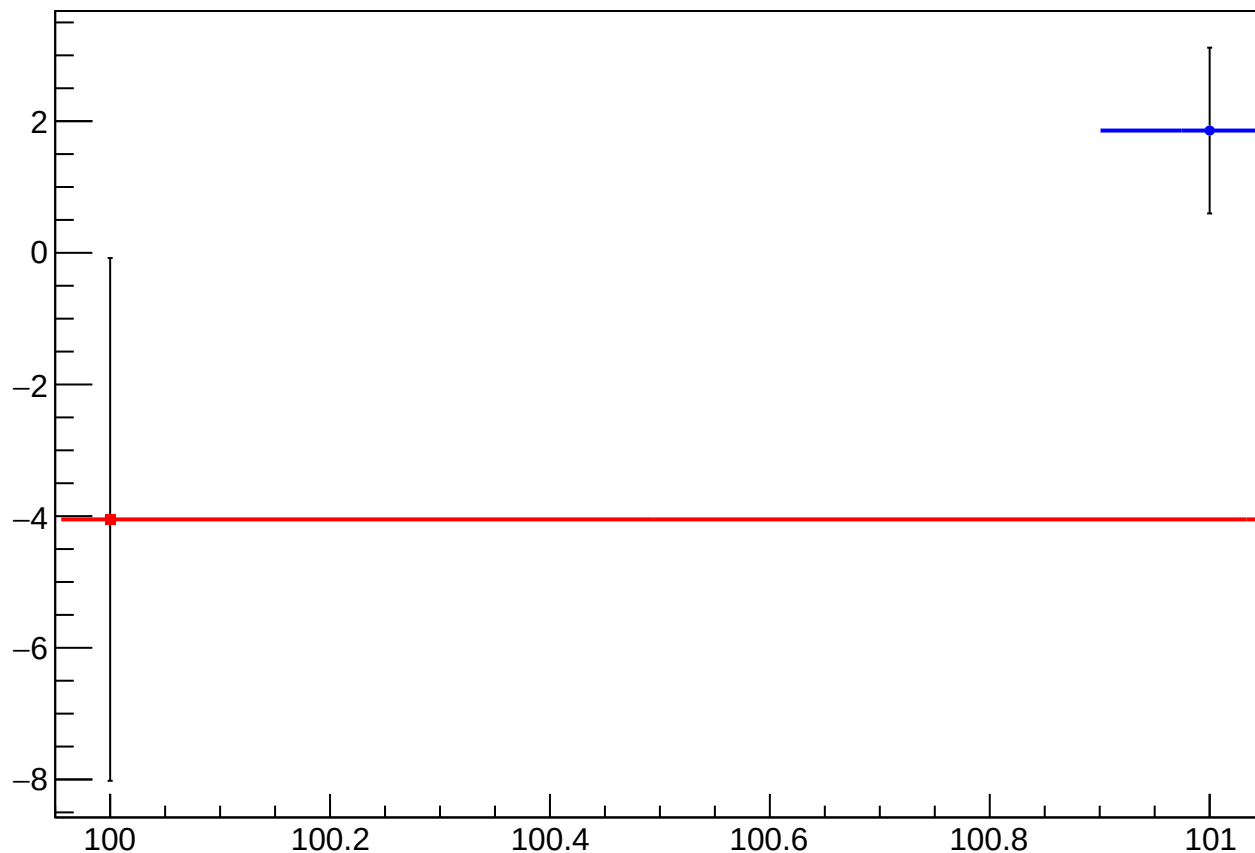
Right: 6323.697 $\pm$ 5.260  $\chi^2/\text{NDF}$ : 991.5/1

In: 6383.807 $\pm$ 5.596  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6323.697 $\pm$ 5.260  $\chi^2/\text{NDF}$ : 991.5/1

diff\_bpm\_4eY\_4ecY\_dd\_mean vs Slug, Sign Corrected



Right In: 1.858+/-1.259  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.049+/-3.971  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

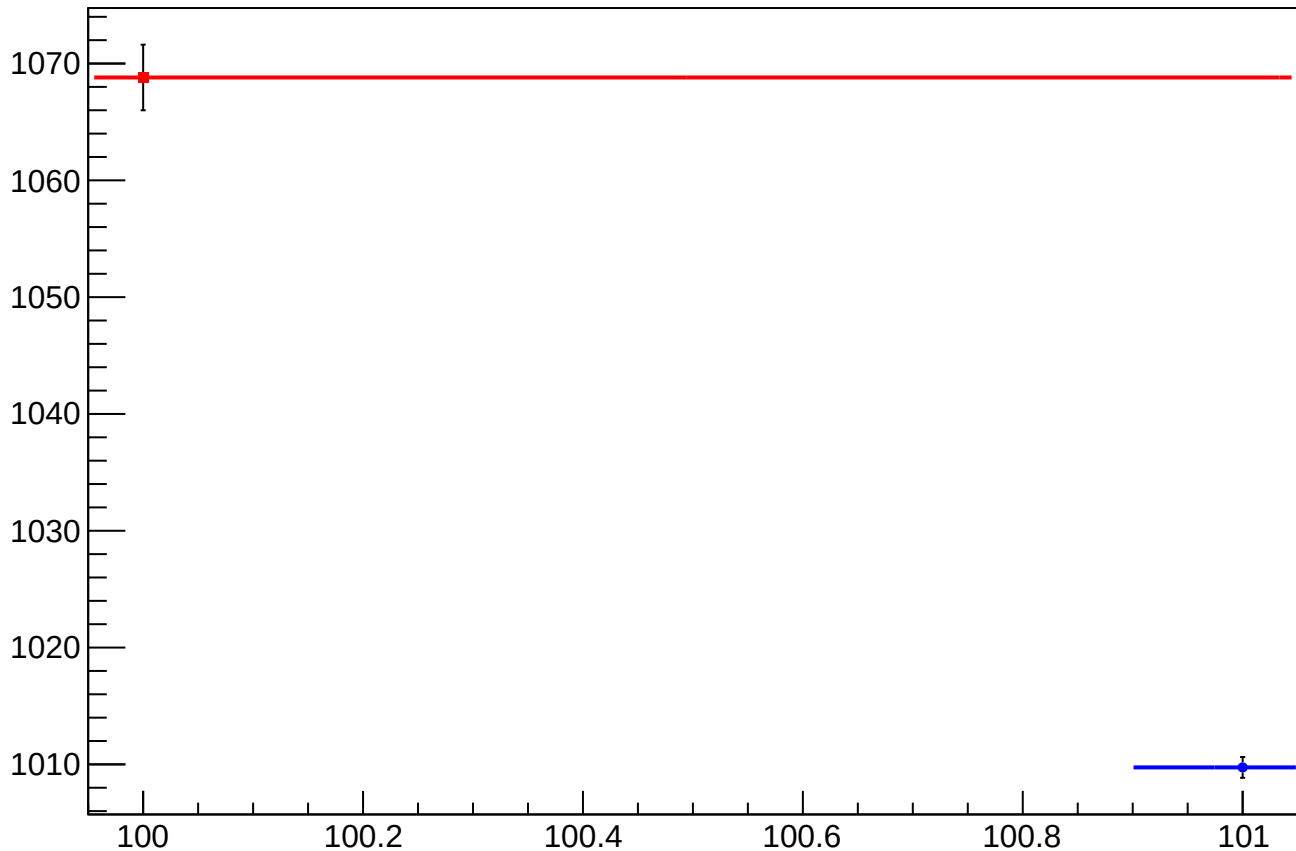
Right: 1.318+/-1.200  $\chi^2/\text{NDF}$ : 2.0/1

In: 1.858+/-1.259  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.318+/-1.200  $\chi^2/\text{NDF}$ : 2.0/1

diff\_bpm\_4eY\_4ecY\_dd\_rms vs Slug, Sign Corrected



Right In: 1009.741 $\pm$ 0.890  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1068.807 $\pm$ 2.808  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

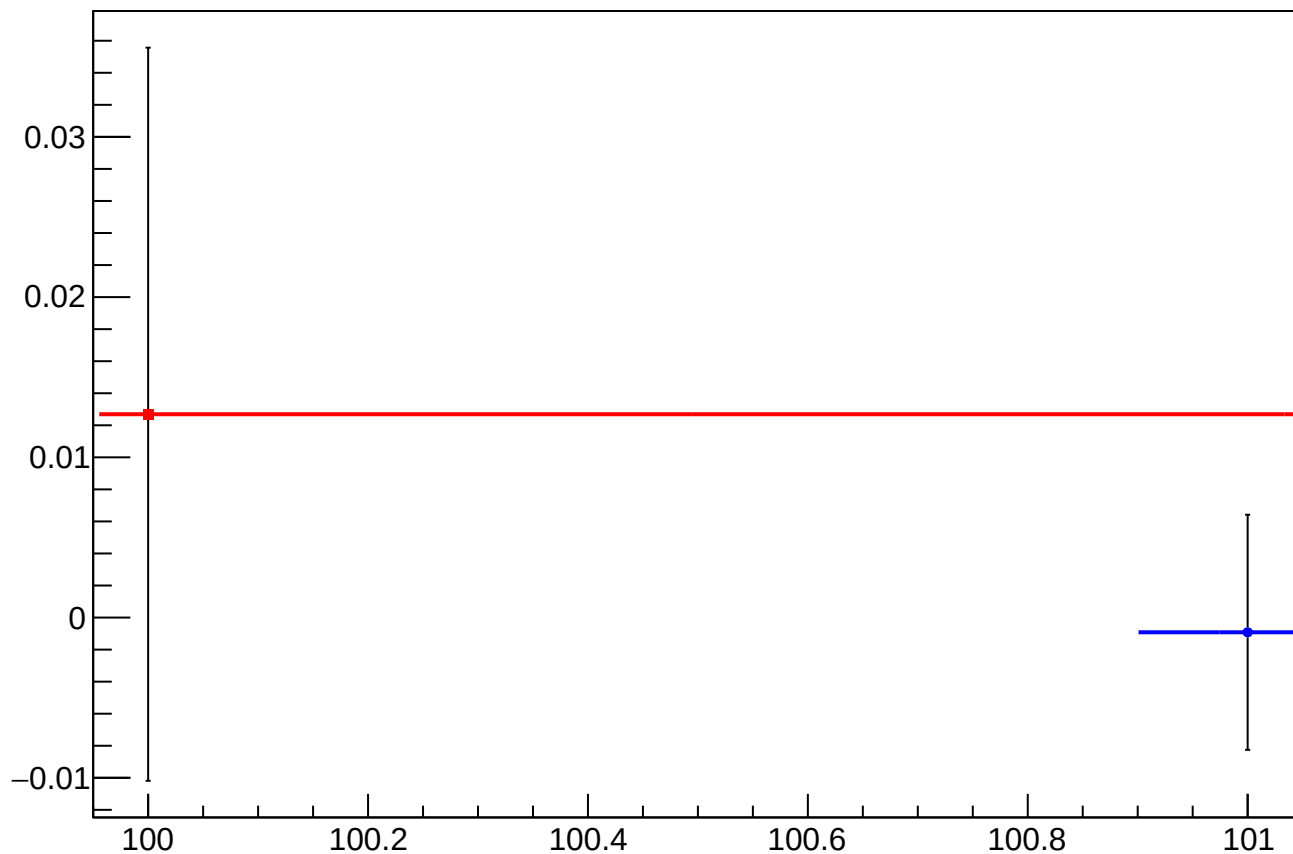
Right: 1015.136 $\pm$ 0.849  $\chi^2/\text{NDF}$ : 402.1/1

In: 1009.741 $\pm$ 0.890  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1015.136 $\pm$ 0.849  $\chi^2/\text{NDF}$ : 402.1/1

# diff\_dispE\_bpm12X\_mean vs Slug, Sign Corrected



Right In: -0.001 $\pm$ 0.007  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.013 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

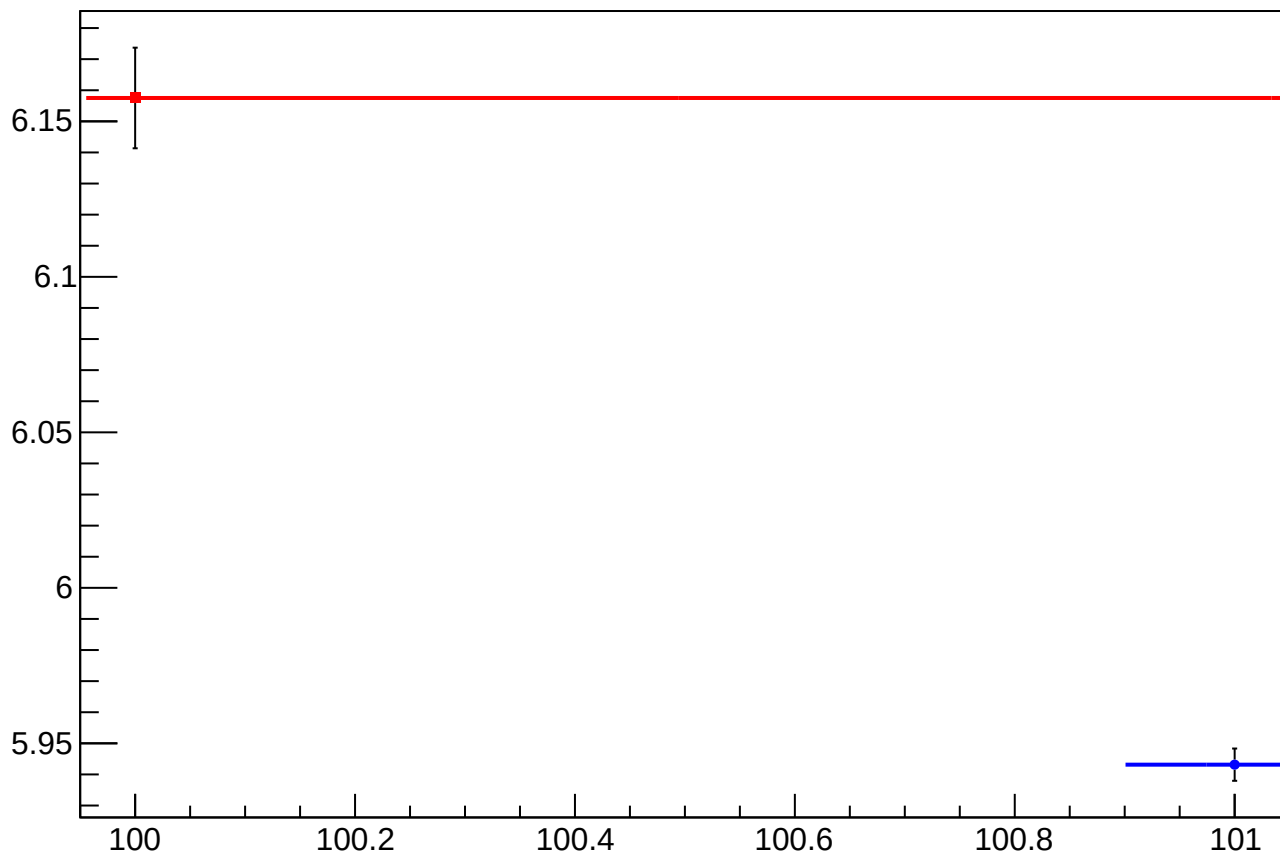
Right: 0.000 $\pm$ 0.007  $\chi^2$ /NDF: 0.3/1

In: -0.001 $\pm$ 0.007  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.000 $\pm$ 0.007  $\chi^2$ /NDF: 0.3/1

# diff\_dispE\_bpm12X\_rms vs Slug, Sign Corrected



Right In: 5.943 $\pm$ 0.005  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.158 $\pm$ 0.016  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 5.963 $\pm$ 0.005  $\chi^2$ /NDF: 159.2/1

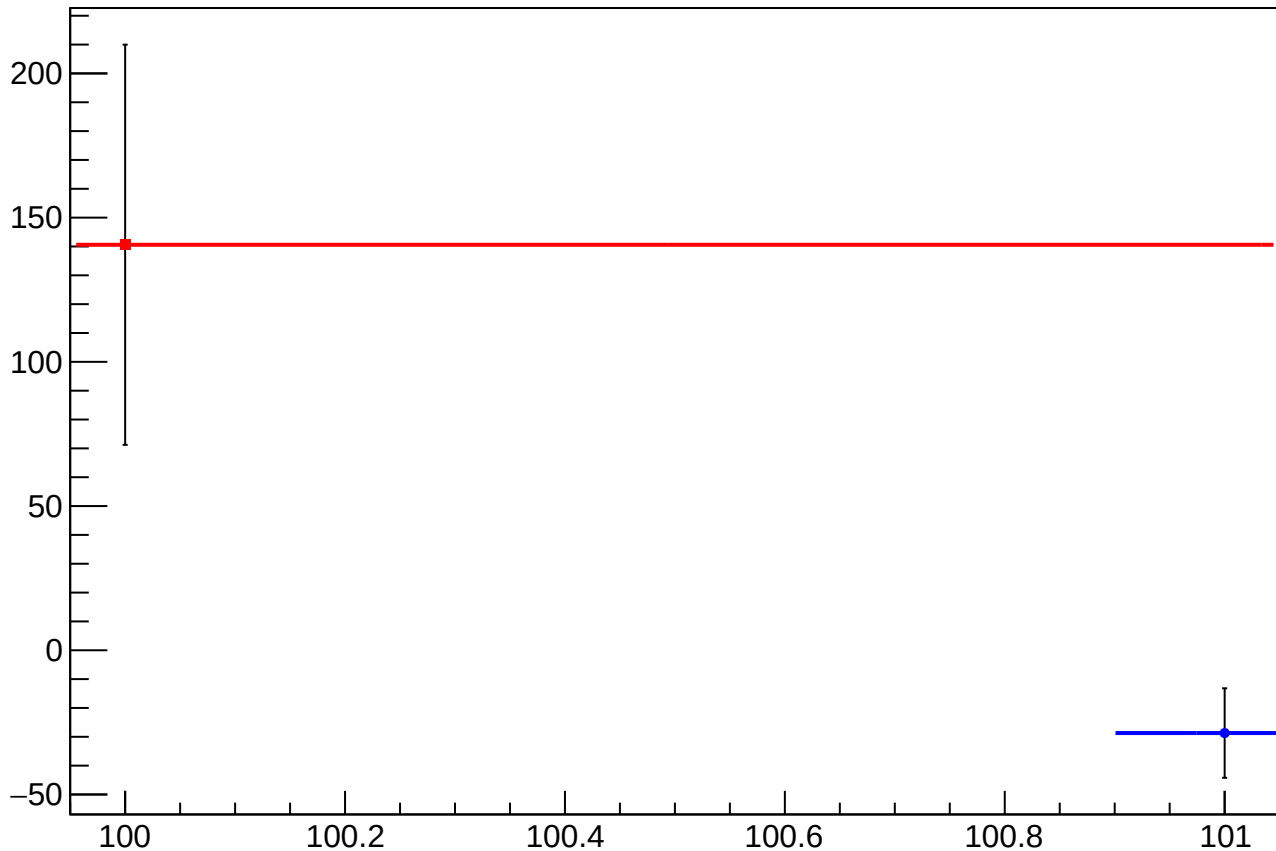
In: 5.943 $\pm$ 0.005  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.963 $\pm$ 0.005  $\chi^2$ /NDF: 159.2/1



# diff\_targ\_positionX\_mean vs Slug, Sign Corrected



Right In: -28.699 $\pm$ 15.517  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 140.591 $\pm$ 69.377  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

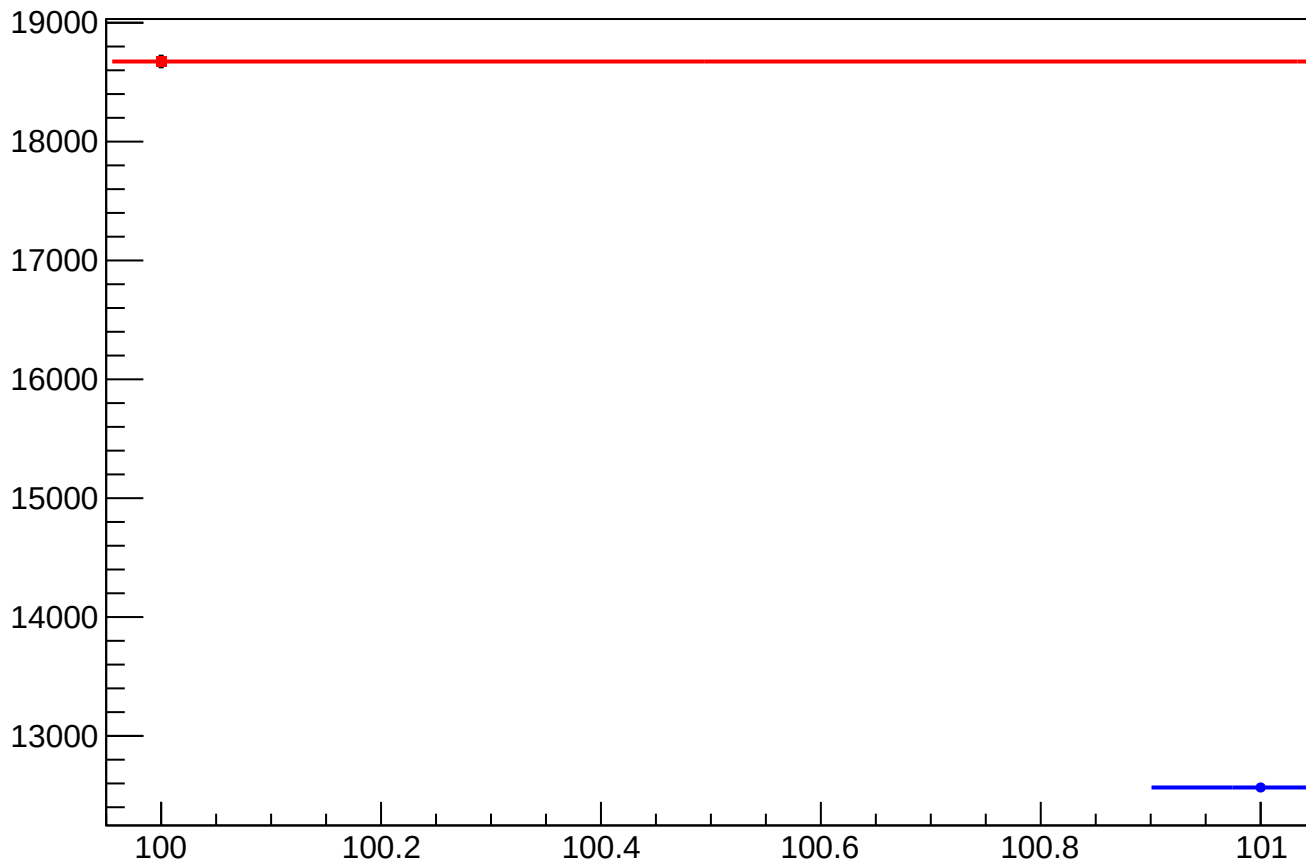
Right: -20.634 $\pm$ 15.143  $\chi^2/\text{NDF}$ : 5.7/1

In: -28.699 $\pm$ 15.517  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -20.634 $\pm$ 15.143  $\chi^2/\text{NDF}$ : 5.7/1

diff\_targ\_positionX\_rms vs Slug, Sign Corrected



Right In: 12566.005 $\pm$ 10.972  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18673.942 $\pm$ 49.057  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

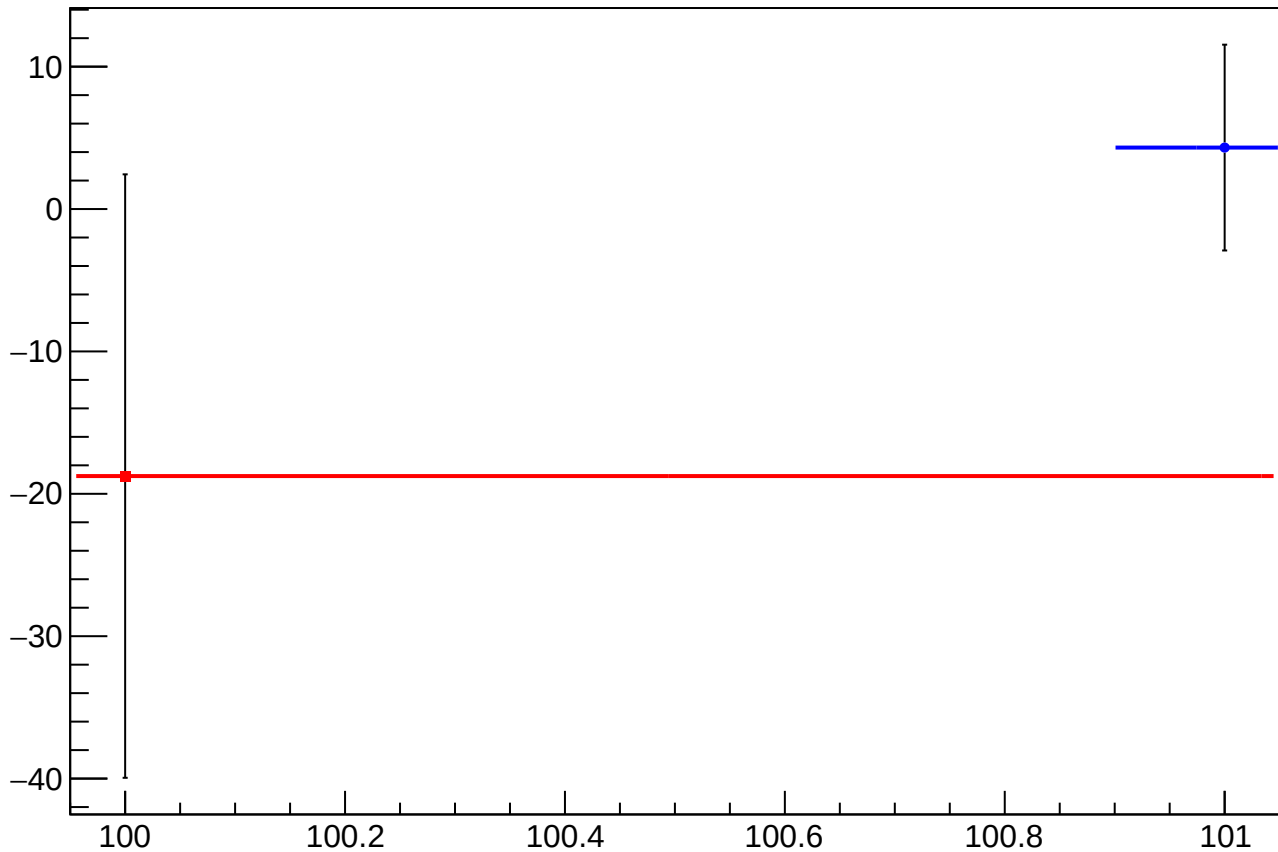
Right: 12856.985 $\pm$ 10.707  $\chi^2/\text{NDF}$ : 14763.3/1

In: 12566.005 $\pm$ 10.972  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12856.985 $\pm$ 10.707  $\chi^2/\text{NDF}$ : 14763.3/1

# diff\_targ\_positionY\_mean vs Slug, Sign Corrected



Right In:  $4.317 \pm 7.227$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-18.754 \pm 21.191$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

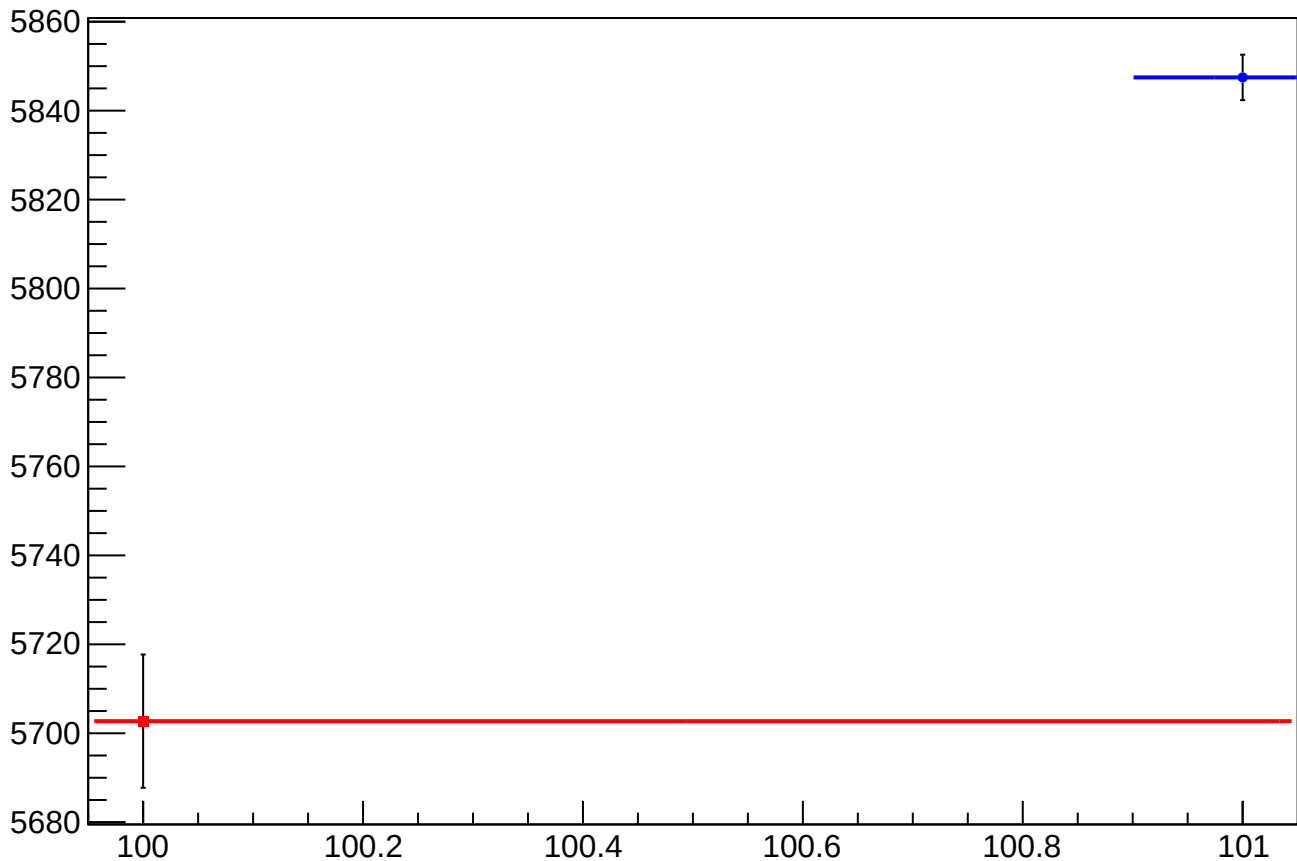
Right:  $1.913 \pm 6.840$   $\chi^2/\text{NDF}: 1.1/1$

In:  $4.317 \pm 7.227$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $1.913 \pm 6.840$   $\chi^2/\text{NDF}: 1.1/1$

# diff\_targ\_positionY\_rms vs Slug, Sign Corrected



Right In: 5847.476 $\pm$ 5.110  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5702.725 $\pm$ 14.984  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

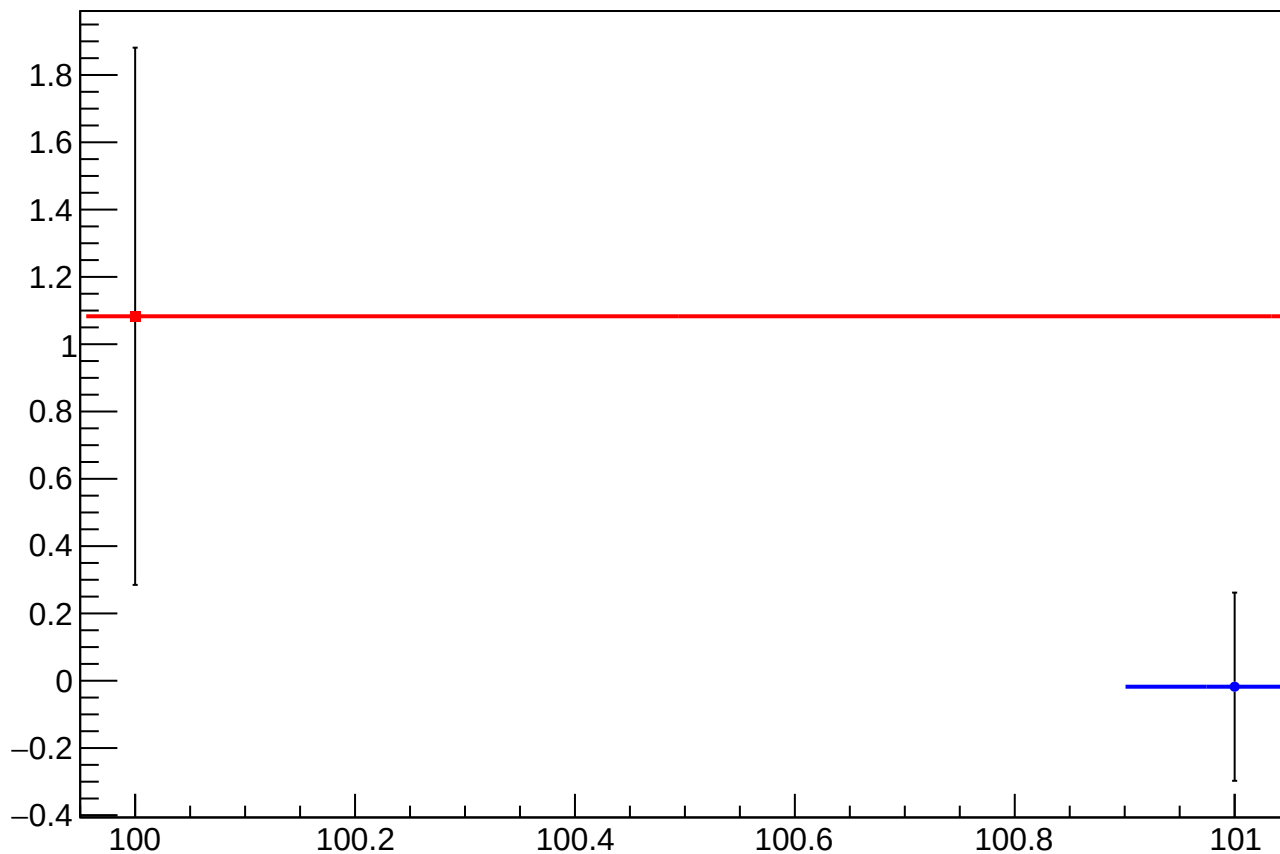
Right: 5832.394 $\pm$ 4.837  $\chi^2/\text{NDF}$ : 83.6/1

In: 5847.476 $\pm$ 5.110  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5832.394 $\pm$ 4.837  $\chi^2/\text{NDF}$ : 83.6/1

# diff\_targ\_thetaX\_mean vs Slug, Sign Corrected



Right In: -0.018+/-0.280  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.083+/-0.798  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

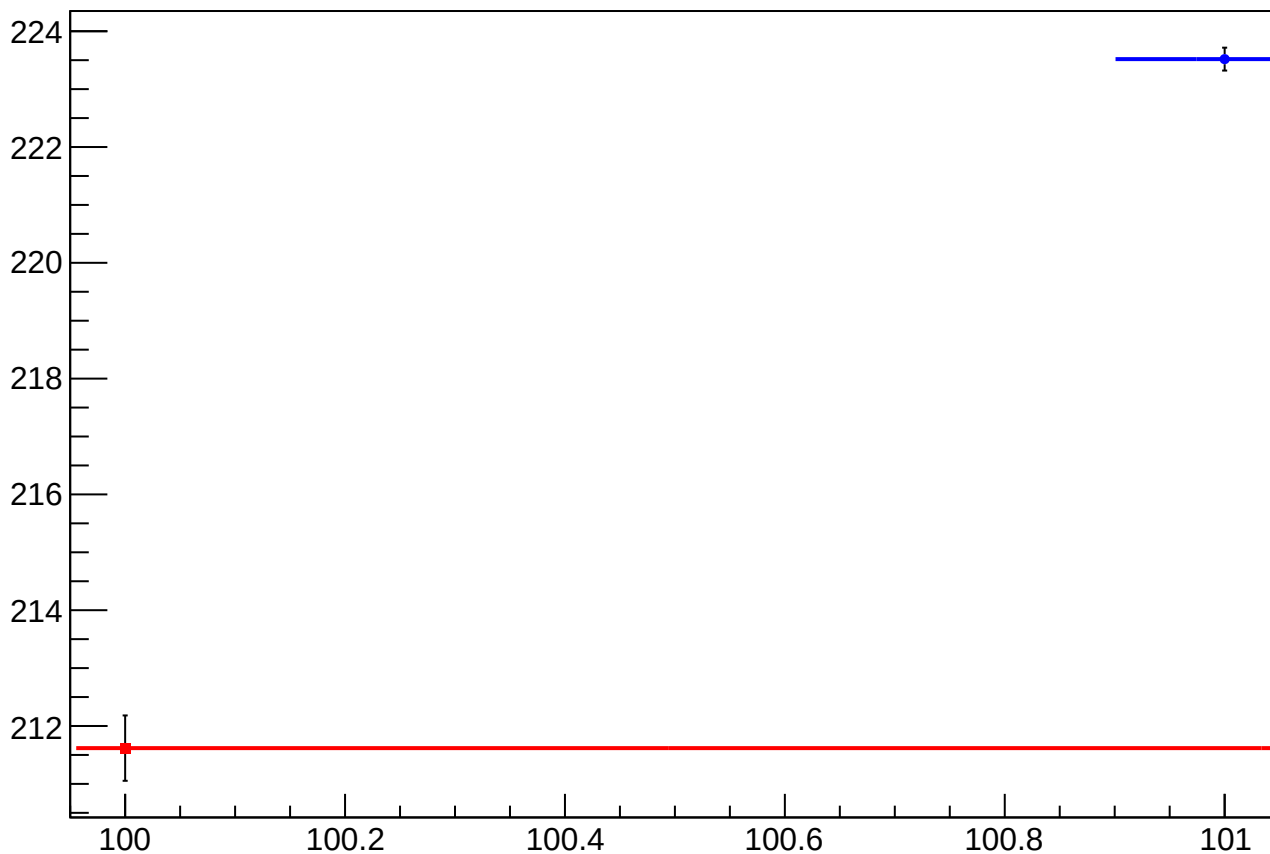
Right: 0.103+/-0.264  $\chi^2$ /NDF: 1.7/1

In: -0.018+/-0.280  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.103+/-0.264  $\chi^2$ /NDF: 1.7/1

# diff\_targ\_thetaX\_rms vs Slug, Sign Corrected



Right In: 223.518 $\pm$ 0.198  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 211.618 $\pm$ 0.564  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

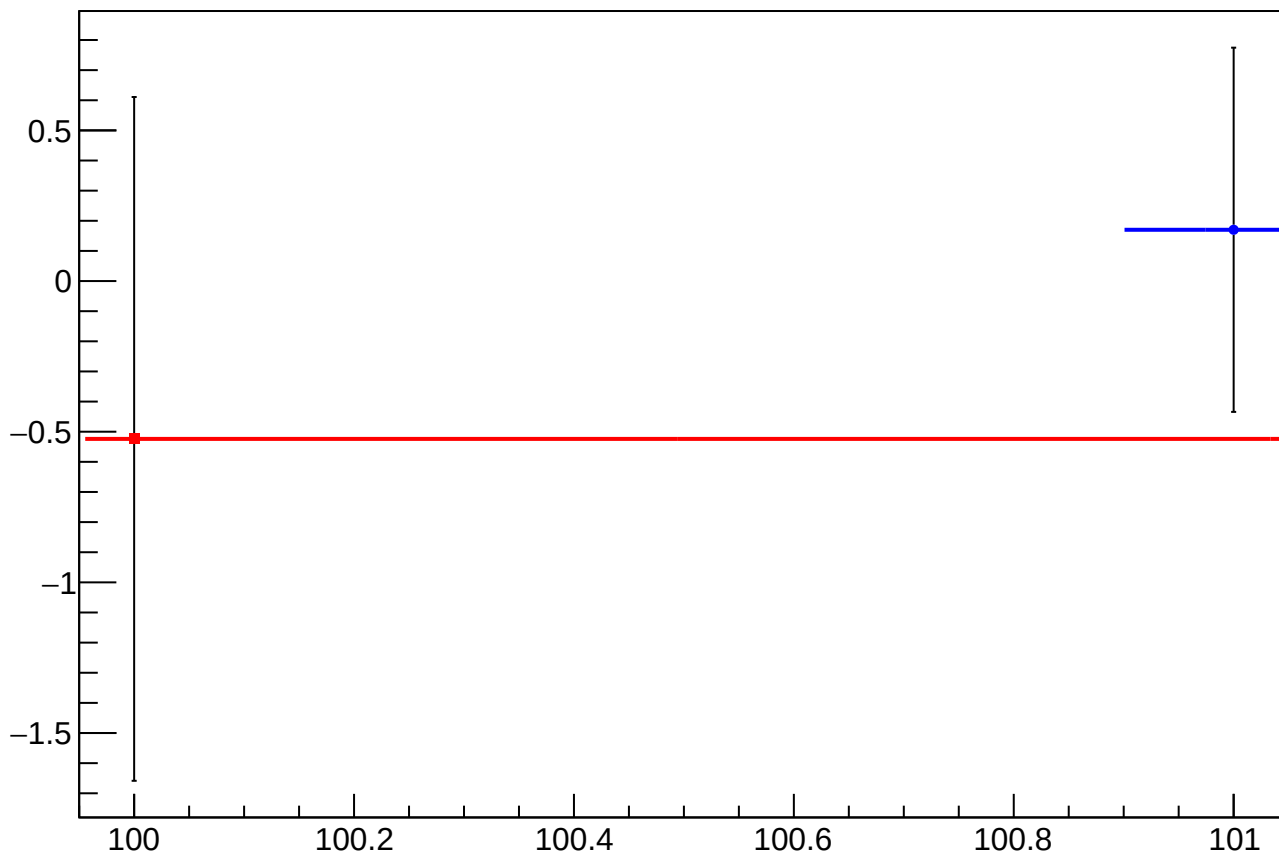
Right: 222.218 $\pm$ 0.187  $\chi^2/\text{NDF}$ : 396.0/1

In: 223.518 $\pm$ 0.198  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 222.218 $\pm$ 0.187  $\chi^2/\text{NDF}$ : 396.0/1

# diff\_targ\_thetaY\_mean vs Slug, Sign Corrected



Right In: 0.170+/-0.604  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.524+/-1.135  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

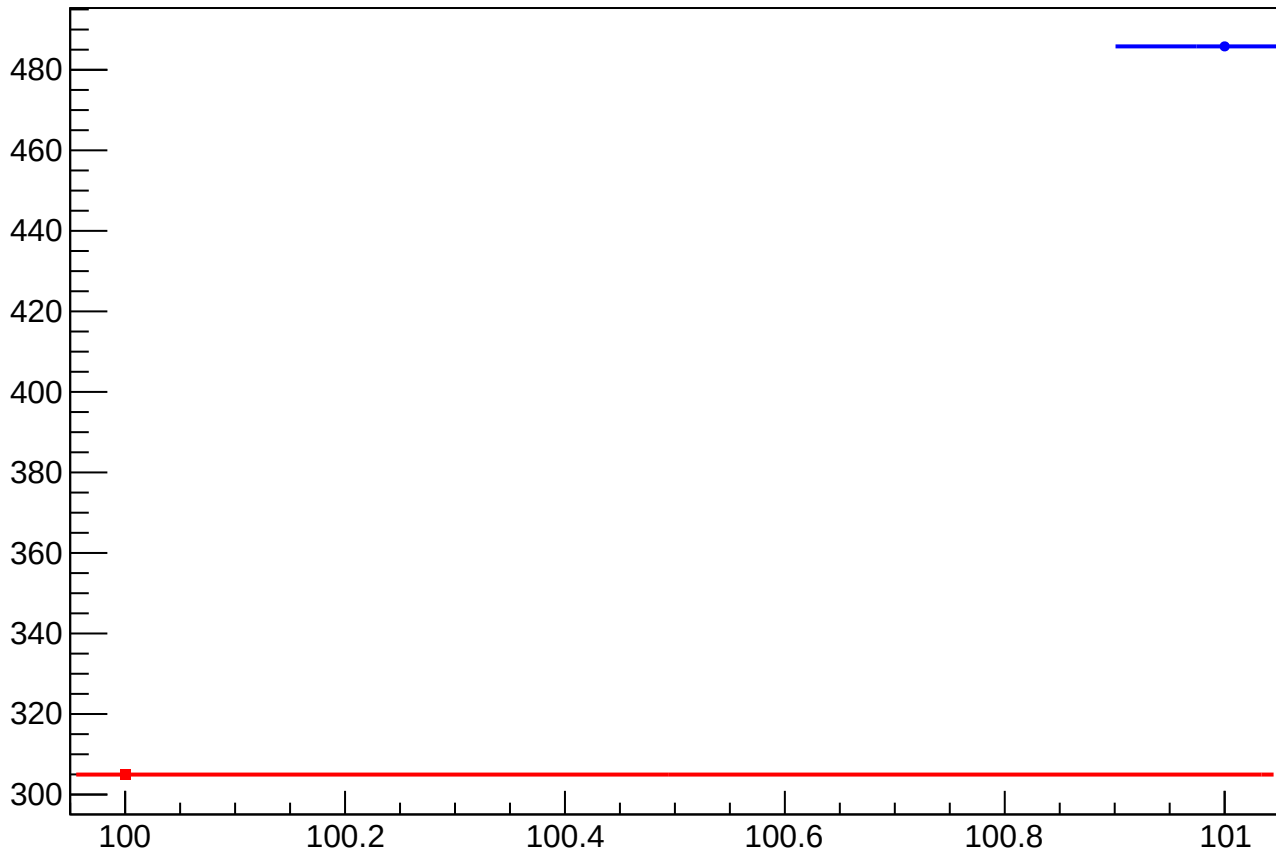
Right: 0.017+/-0.533  $\chi^2/\text{NDF}$ : 0.3/1

In: 0.170+/-0.604  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017+/-0.533  $\chi^2/\text{NDF}$ : 0.3/1

# diff\_targ\_thetaY\_rms vs Slug, Sign Corrected



Right In: 485.817 $\pm$ 0.427  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 304.960 $\pm$ 0.802  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 445.845 $\pm$ 0.377  $\chi^2/\text{NDF}$ : 39579.9/1

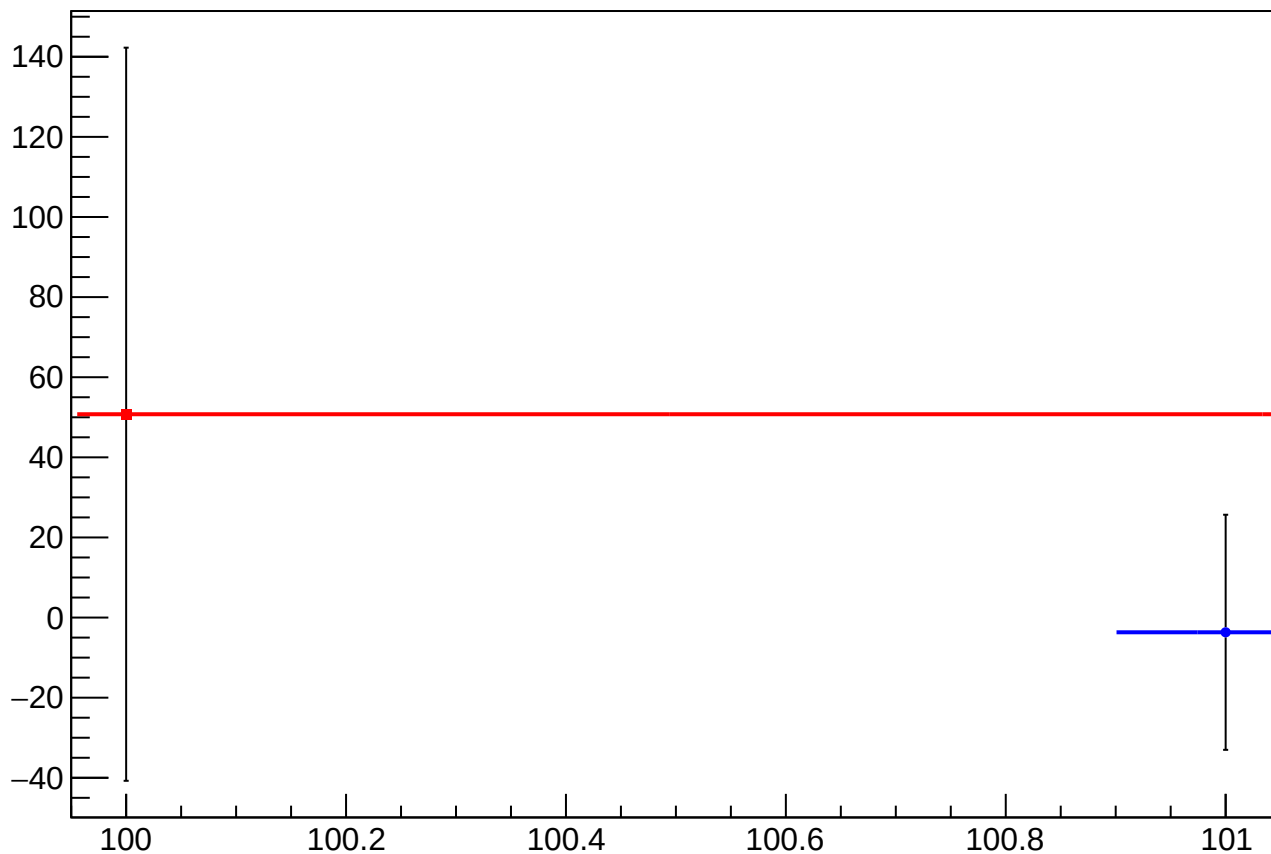
In: 485.817 $\pm$ 0.427  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 445.845 $\pm$ 0.377  $\chi^2/\text{NDF}$ : 39579.9/1



# diff\_bpmE\_mean vs Slug, Sign Corrected



Right In: -3.676+/-29.346  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.760+/-91.510  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

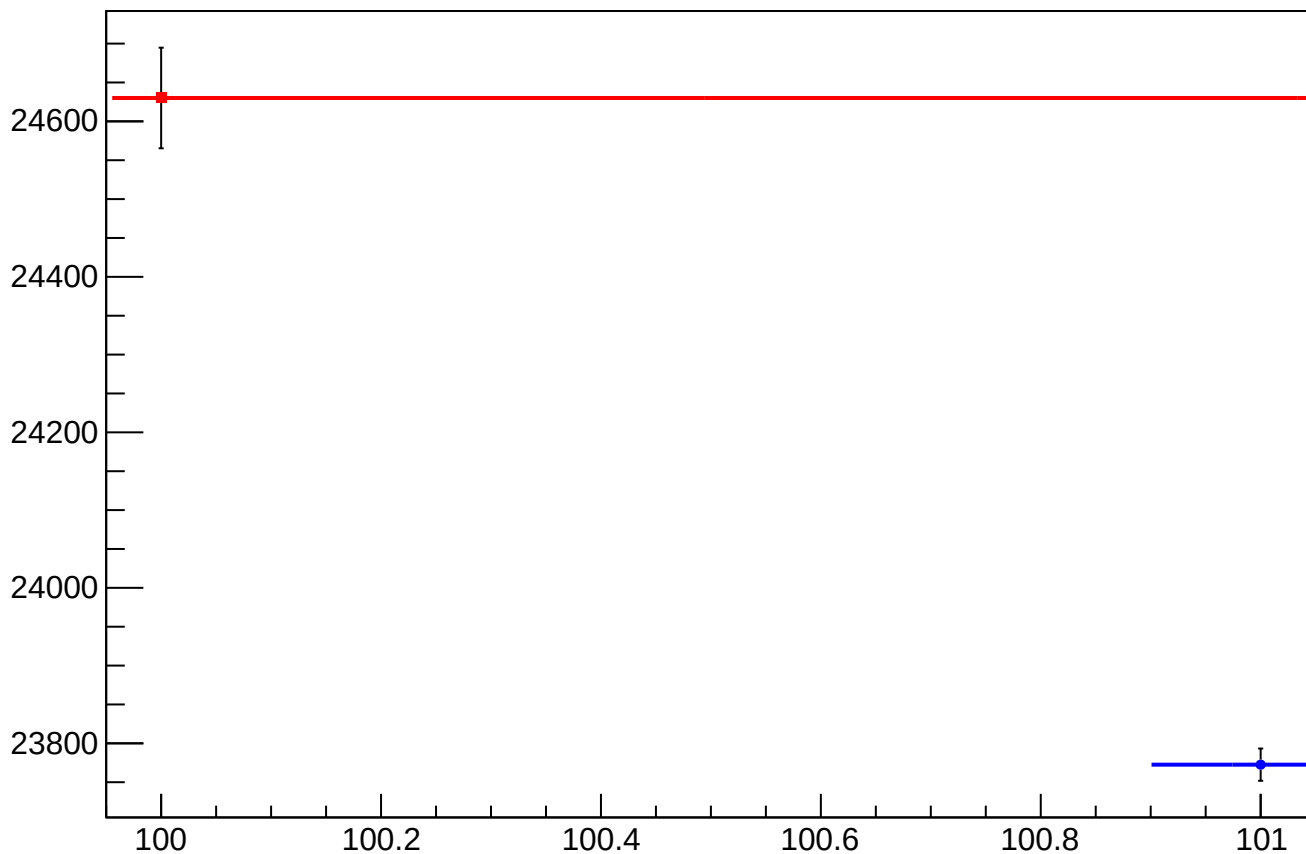
Right: 1.400+/-27.944  $\chi^2/\text{NDF}$ : 0.3/1

In: -3.676+/-29.346  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.400+/-27.944  $\chi^2/\text{NDF}$ : 0.3/1

# diff\_bpmE\_rms vs Slug, Sign Corrected



Right In: 23772.559 $\pm$ 20.751  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24630.058 $\pm$ 64.707  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

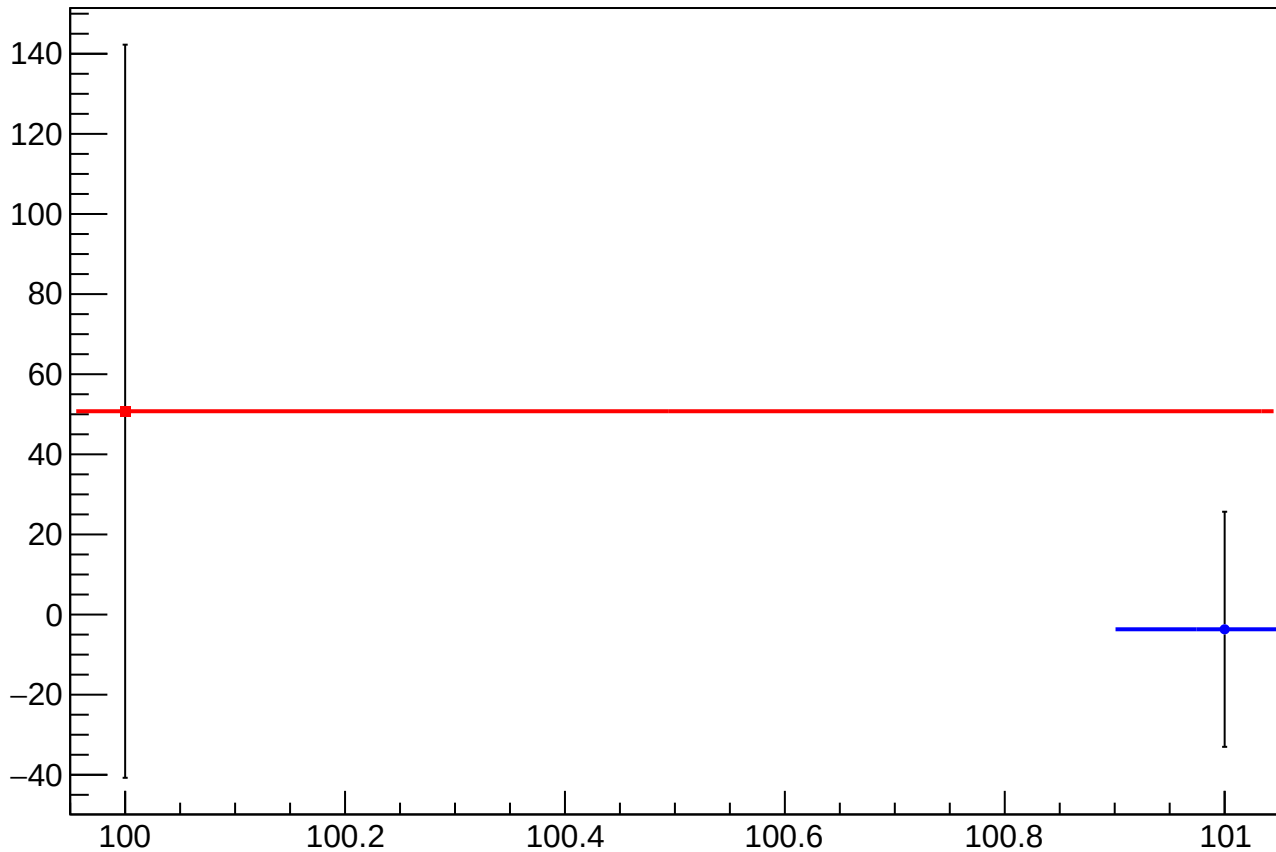
Right: 23852.520 $\pm$ 19.759  $\chi^2/\text{NDF}$ : 159.2/1

In: 23772.559 $\pm$ 20.751  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23852.520 $\pm$ 19.759  $\chi^2/\text{NDF}$ : 159.2/1

# diff\_bpmEX\_mean vs Slug, Sign Corrected



Right In: -3.676+/-29.346  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.760+/-91.510  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

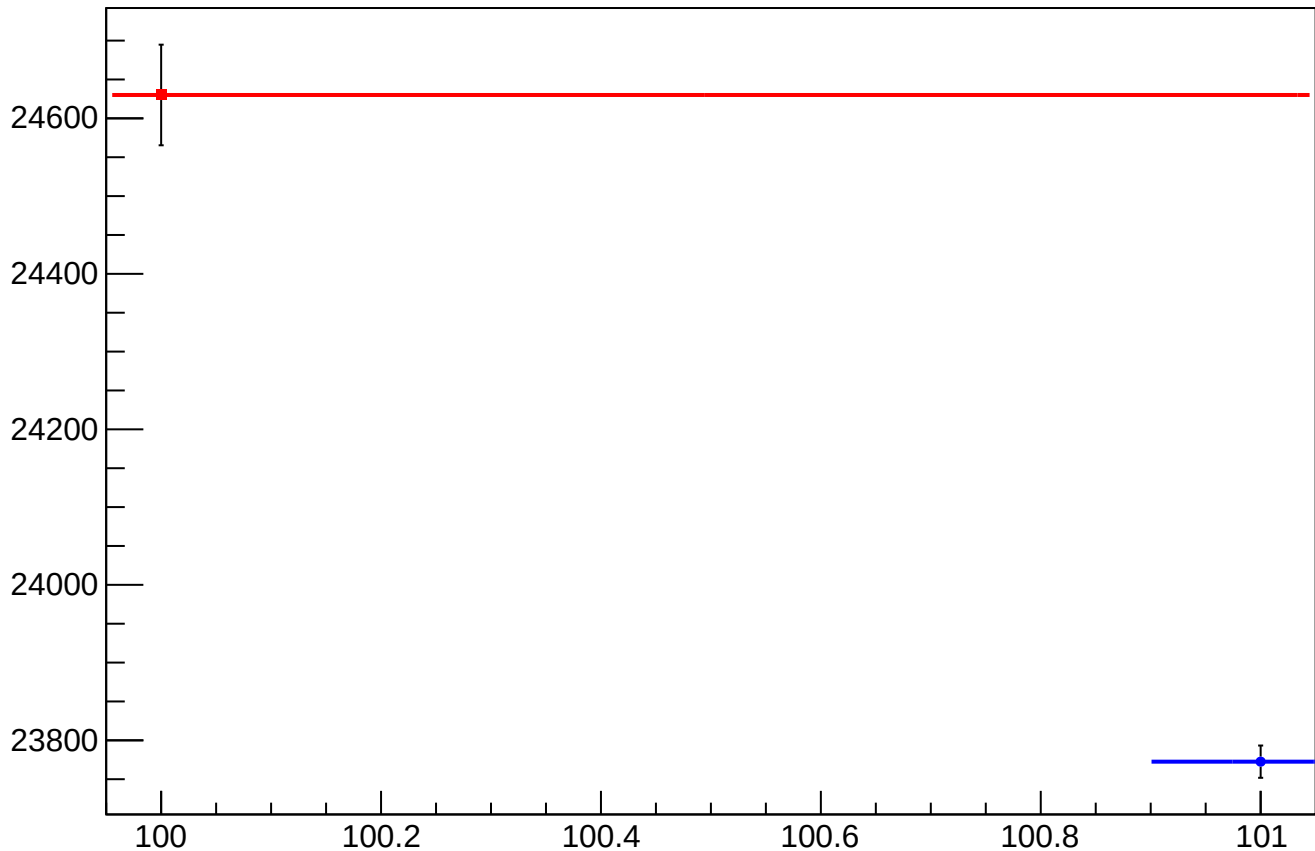
Right: 1.400+/-27.944  $\chi^2/\text{NDF}$ : 0.3/1

In: -3.676+/-29.346  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.400+/-27.944  $\chi^2/\text{NDF}$ : 0.3/1

# diff\_bpmEX\_rms vs Slug, Sign Corrected



Right In: 23772.559 $\pm$ 20.751  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24630.058 $\pm$ 64.707  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

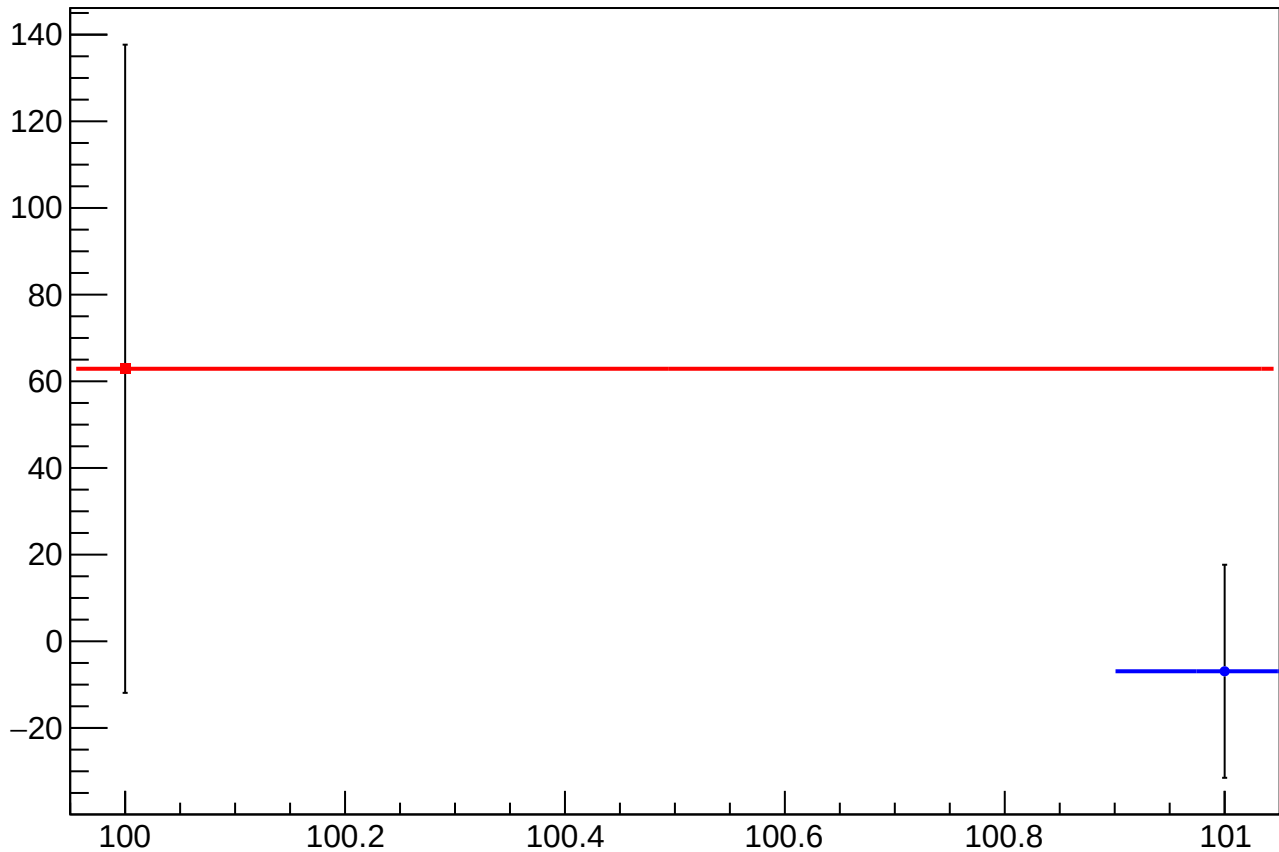
Right: 23852.520 $\pm$ 19.759  $\chi^2/\text{NDF}$ : 159.2/1

In: 23772.559 $\pm$ 20.751  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23852.520 $\pm$ 19.759  $\chi^2/\text{NDF}$ : 159.2/1

# diff\_bpmE\_11X12X\_mean vs Slug, Sign Corrected



Right In: -6.917+/-24.584  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 62.893+/-74.792  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

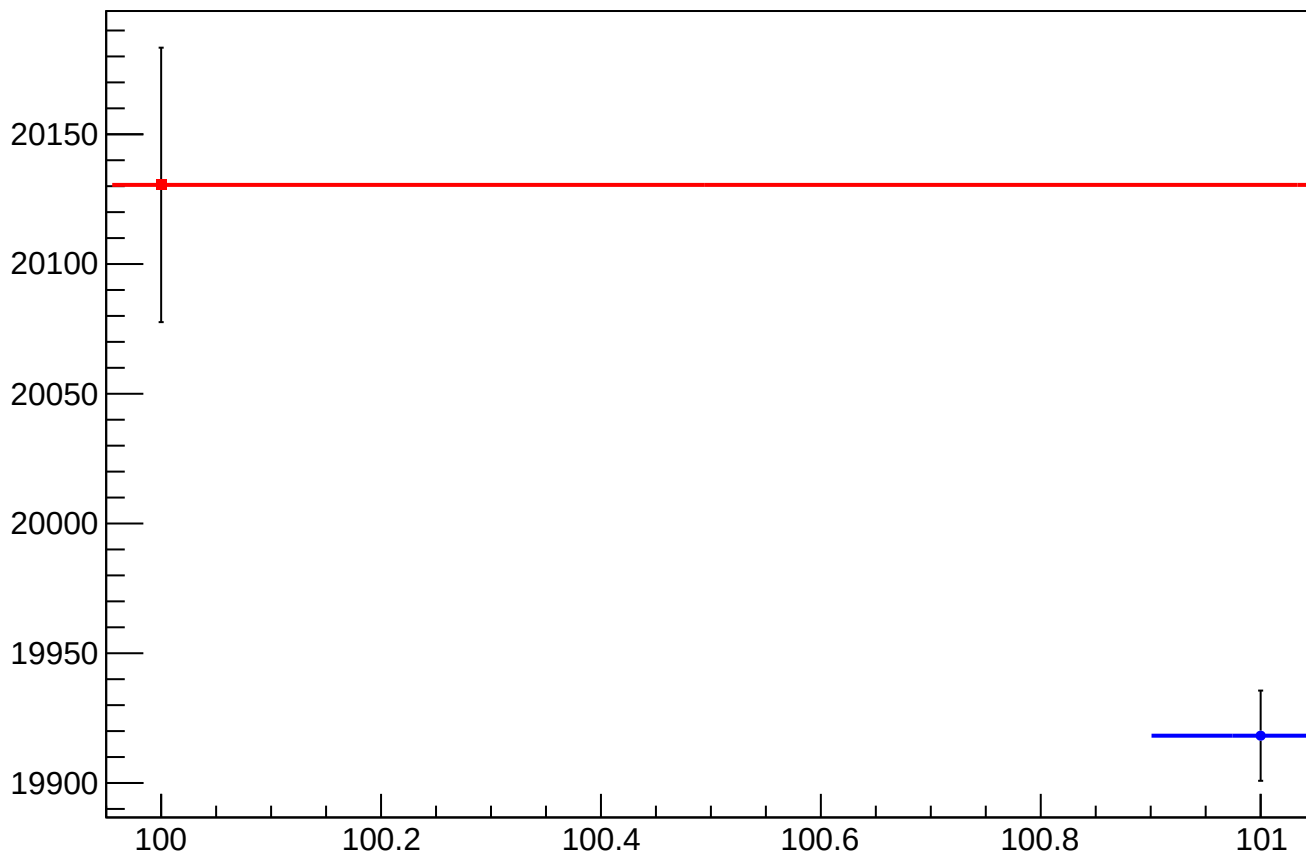
Right: -0.110+/-23.355  $\chi^2/\text{NDF}$ : 0.8/1

In: -6.917+/-24.584  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.110+/-23.355  $\chi^2/\text{NDF}$ : 0.8/1

# diff\_bpmE\_11X12X\_rms vs Slug, Sign Corrected



Right In: 19918.226 $\pm$ 17.384  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 20130.495 $\pm$ 52.886  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

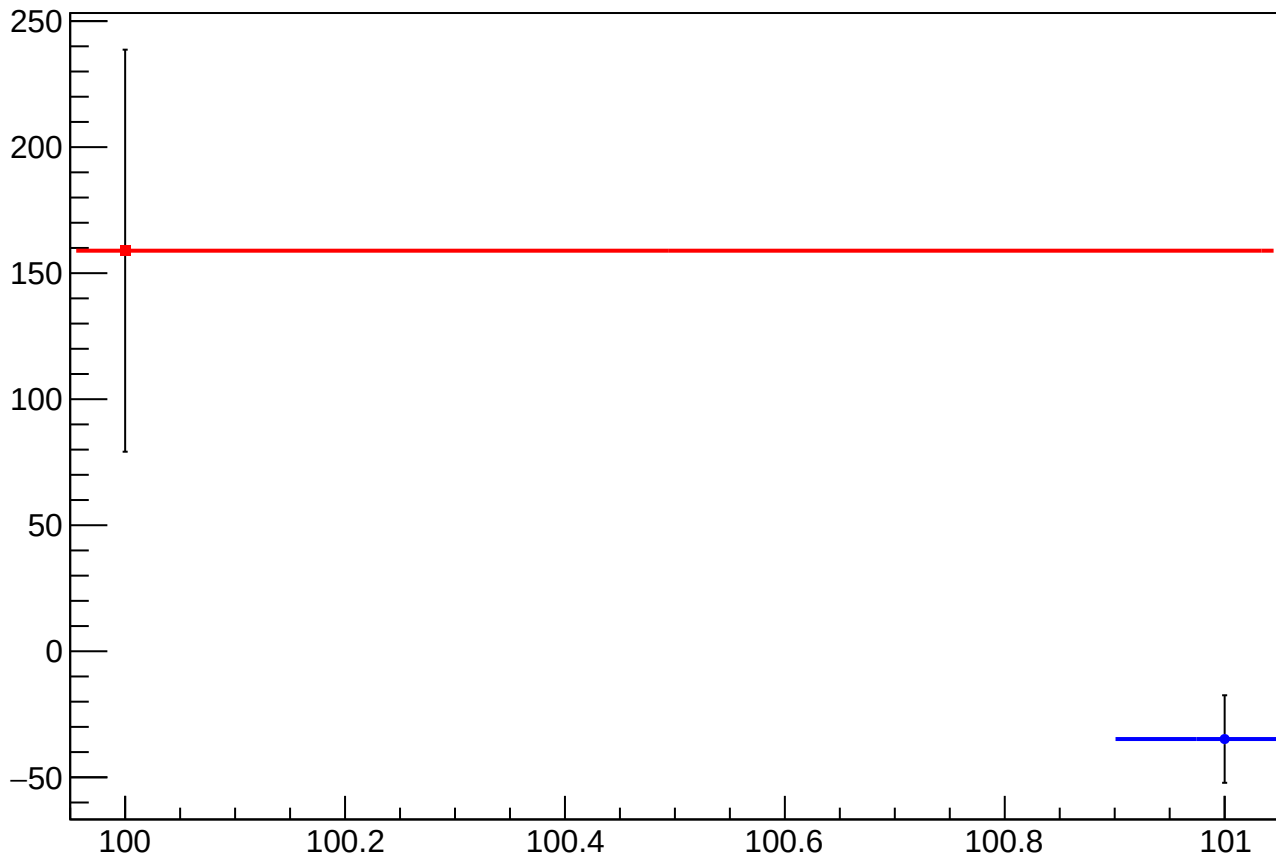
Right: 19938.924 $\pm$ 16.514  $\chi^2$ /NDF: 14.5/1

In: 19918.226 $\pm$ 17.384  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19938.924 $\pm$ 16.514  $\chi^2$ /NDF: 14.5/1

# diff\_bpm4aesumX\_mean vs Slug, Sign Corrected



Right In: -34.820 $\pm$ 17.362  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 158.917 $\pm$ 79.750  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

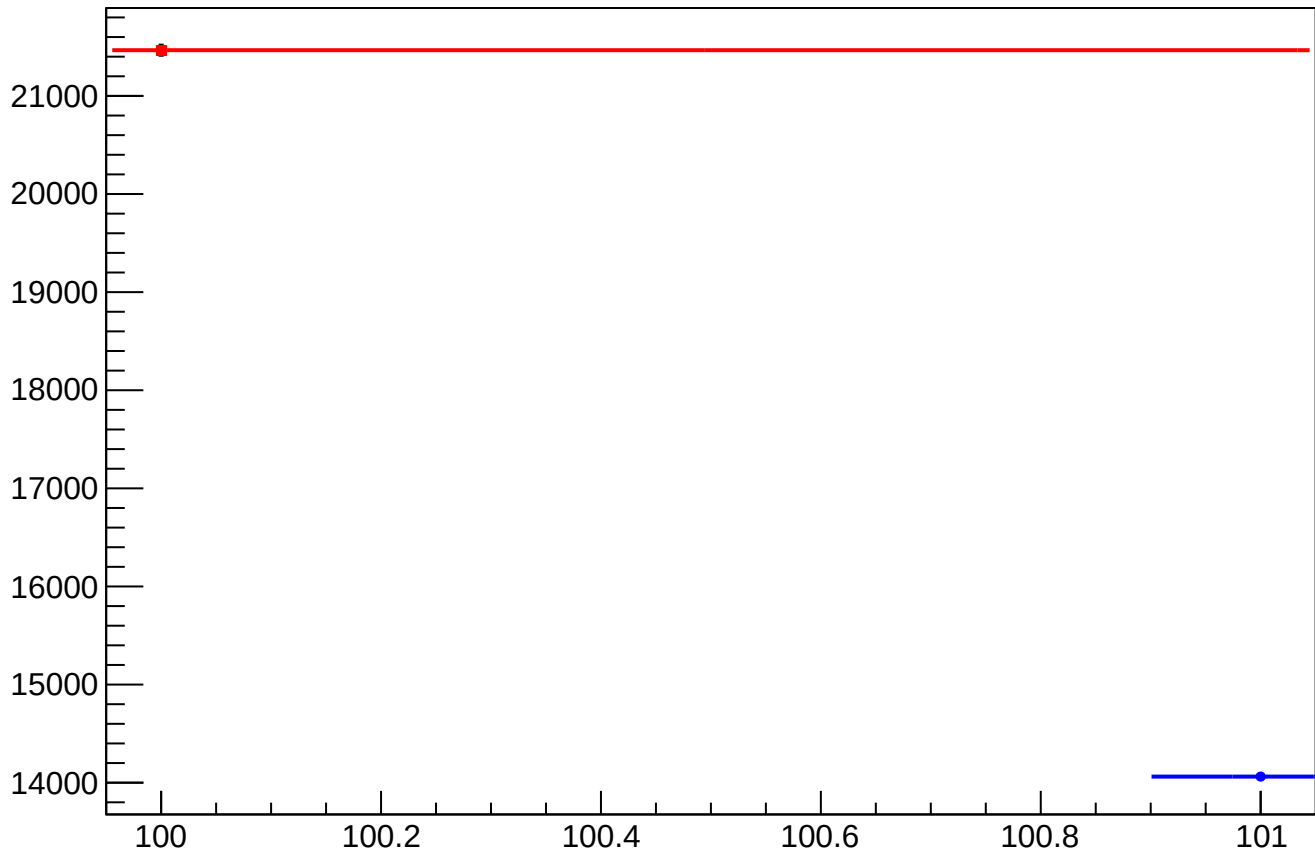
Right: -26.053 $\pm$ 16.965  $\chi^2$ /NDF: 5.6/1

In: -34.820 $\pm$ 17.362  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -26.053 $\pm$ 16.965  $\chi^2$ /NDF: 5.6/1

# diff\_bpm4aesumX\_rms vs Slug, Sign Corrected



Right In: 14062.100 $\pm$ 12.277  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21465.873 $\pm$ 56.392  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 14397.136 $\pm$ 11.996  $\chi^2/\text{NDF}$ : 16457.3/1

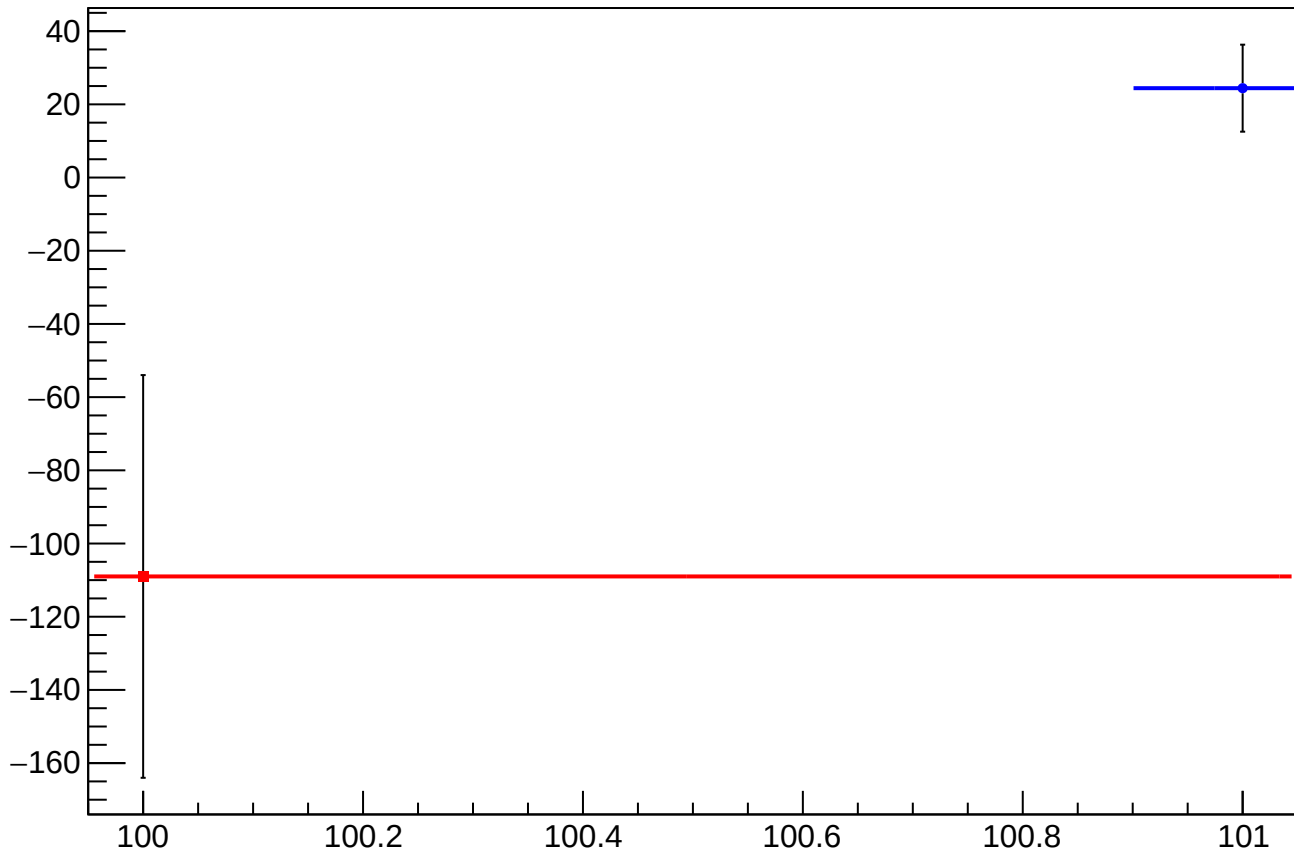
In: 14062.100 $\pm$ 12.277  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14397.136 $\pm$ 11.996  $\chi^2/\text{NDF}$ : 16457.3/1



# diff\_bpm4aediffX\_mean vs Slug, Sign Corrected



Right In: 24.419+/-11.887  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -108.992+/-55.020  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

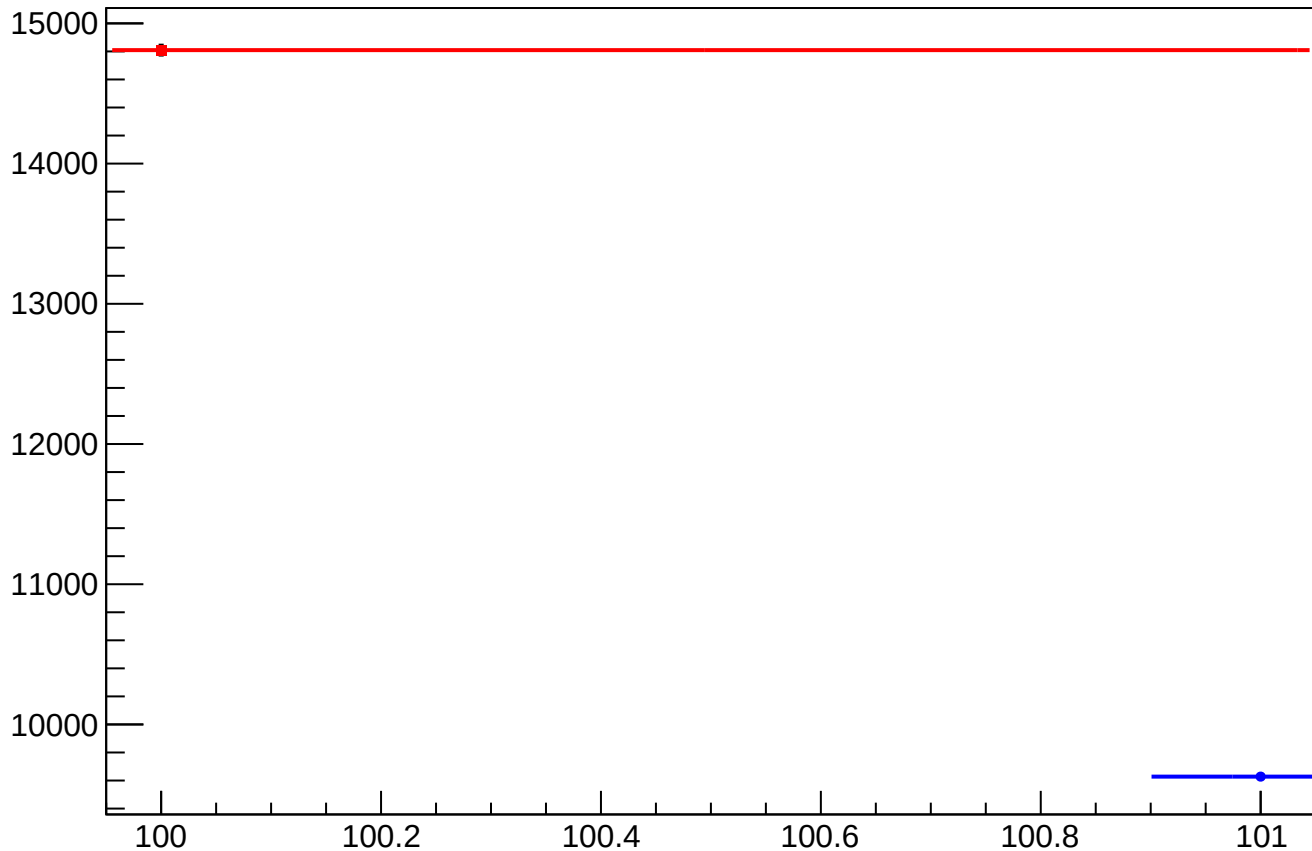
Right: 18.470+/-11.619  $\chi^2/\text{NDF}$ : 5.6/1

In: 24.419+/-11.887  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.470+/-11.619  $\chi^2/\text{NDF}$ : 5.6/1

# diff\_bpm4aediffX\_rms vs Slug, Sign Corrected



Right In: 9627.890 $\pm$ 8.405  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14809.241 $\pm$ 38.905  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

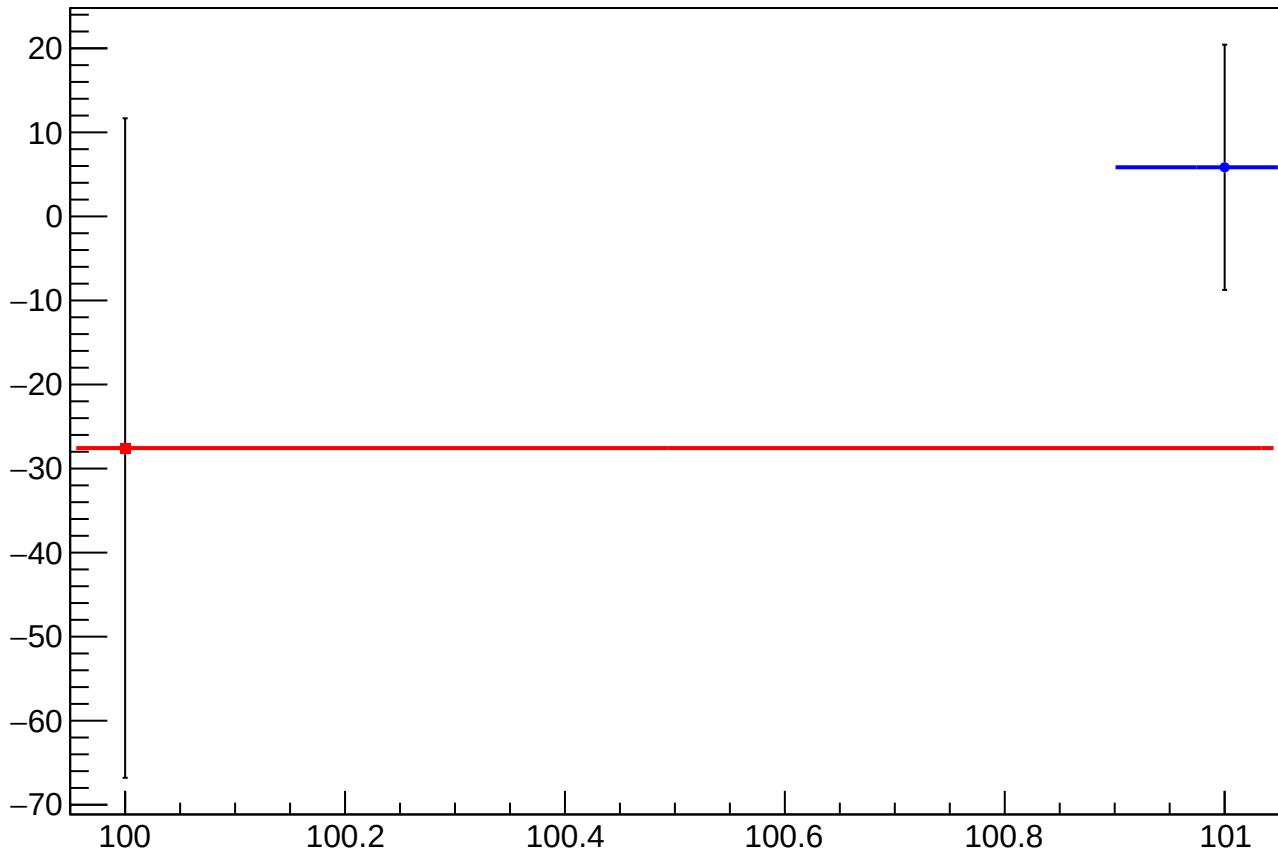
Right: 9858.963 $\pm$ 8.216  $\chi^2/\text{NDF}$ : 16946.1/1

In: 9627.890 $\pm$ 8.405  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9858.963 $\pm$ 8.216  $\chi^2/\text{NDF}$ : 16946.1/1

# diff\_bpm4aesumY\_mean vs Slug, Sign Corrected



Right In: 5.845+/-14.589  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -27.559+/-39.233  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

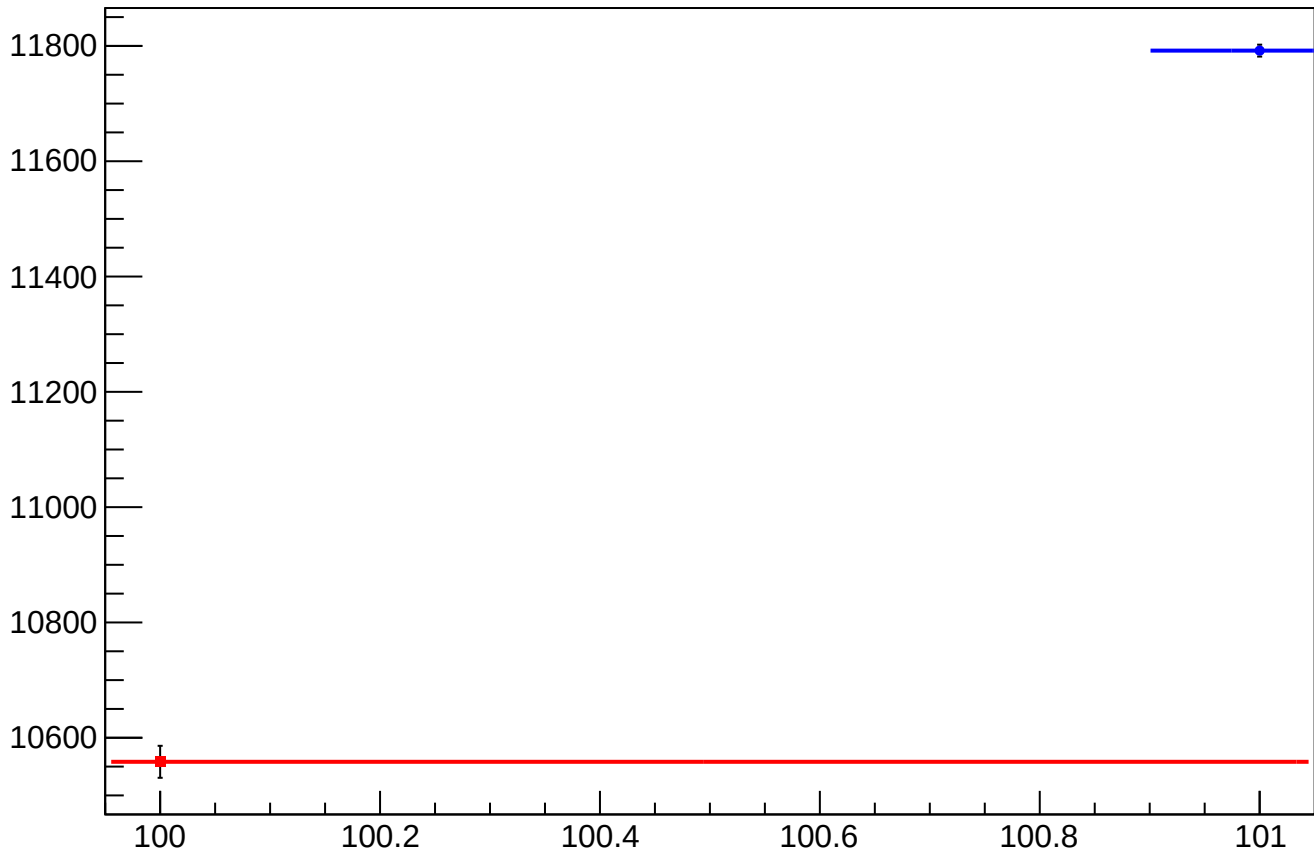
Right: 1.786+/-13.675  $\chi^2/\text{NDF}$ : 0.6/1

In: 5.845+/-14.589  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.786+/-13.675  $\chi^2/\text{NDF}$ : 0.6/1

# diff\_bpm4aesumY\_rms vs Slug, Sign Corrected



Right In: 11791.861+/-10.316  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10558.299+/-27.742  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

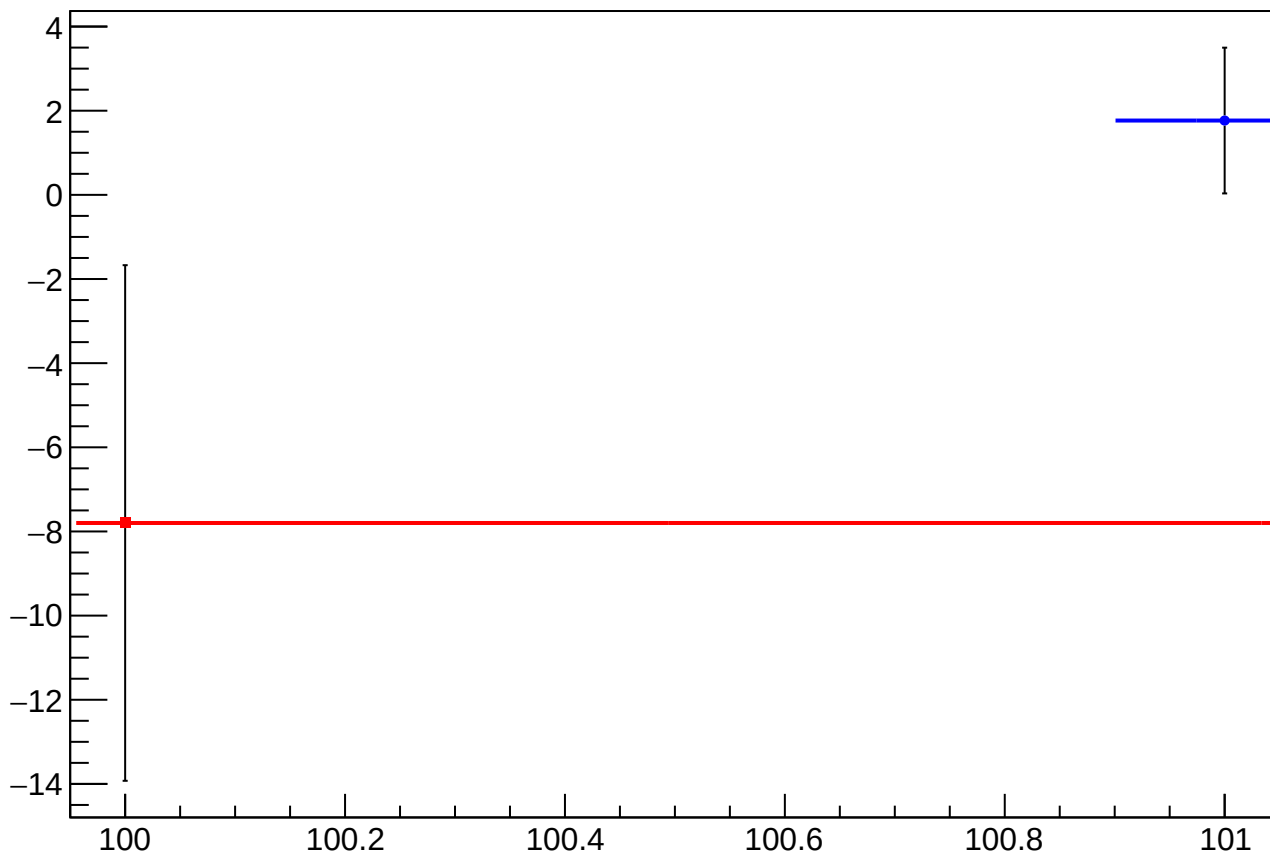
Right: 11642.002+/-9.669  $\chi^2/\text{NDF}$ : 1737.0/1

In: 11791.861+/-10.316  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11642.002+/-9.669  $\chi^2/\text{NDF}$ : 1737.0/1

# diff\_bpm4aediffY\_mean vs Slug, Sign Corrected



Right In: 1.766+/-1.732  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.799+/-6.127  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

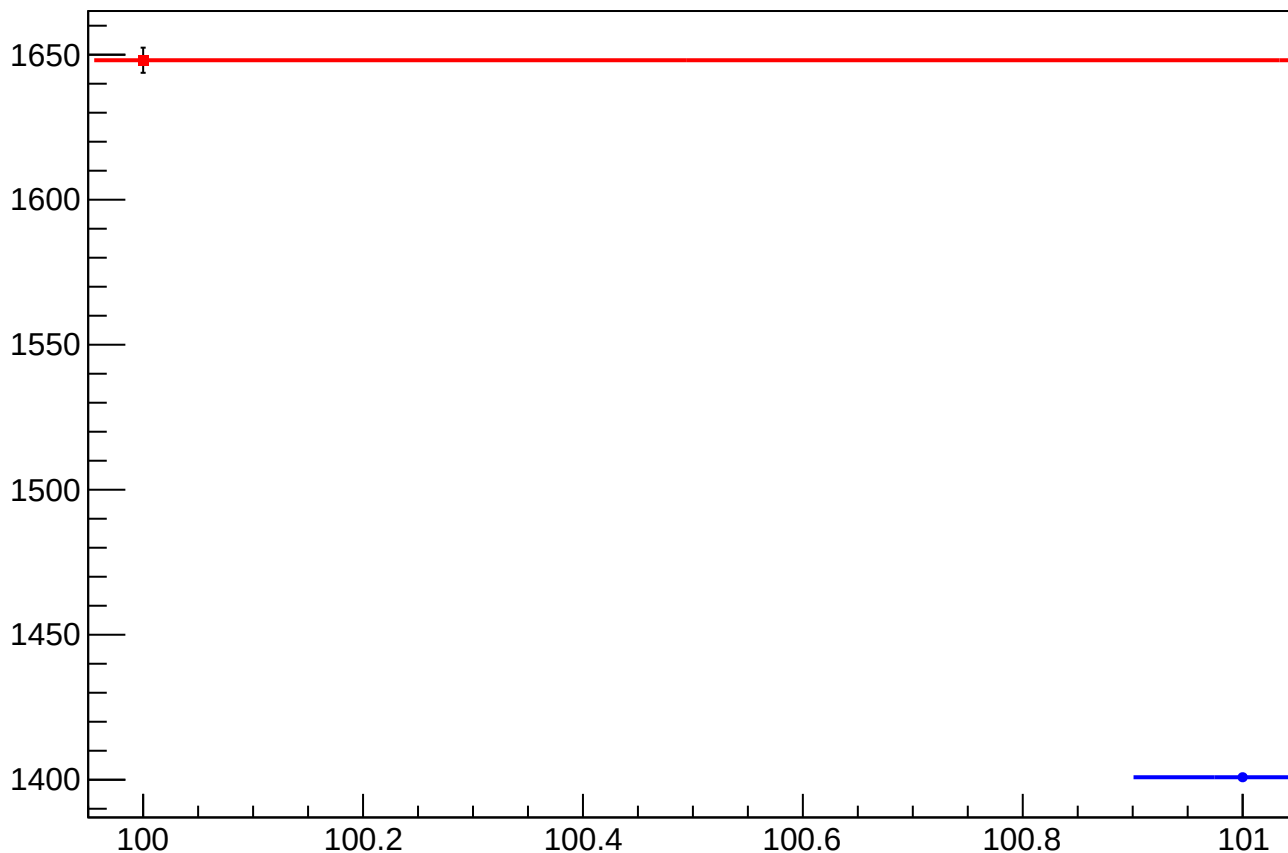
Right: 1.059+/-1.667  $\chi^2/\text{NDF}$ : 2.3/1

In: 1.766+/-1.732  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.059+/-1.667  $\chi^2/\text{NDF}$ : 2.3/1

# diff\_bpm4aediY\_rms vs Slug, Sign Corrected



Right In: 1400.861 $\pm$ 1.225  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1648.092 $\pm$ 4.333  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

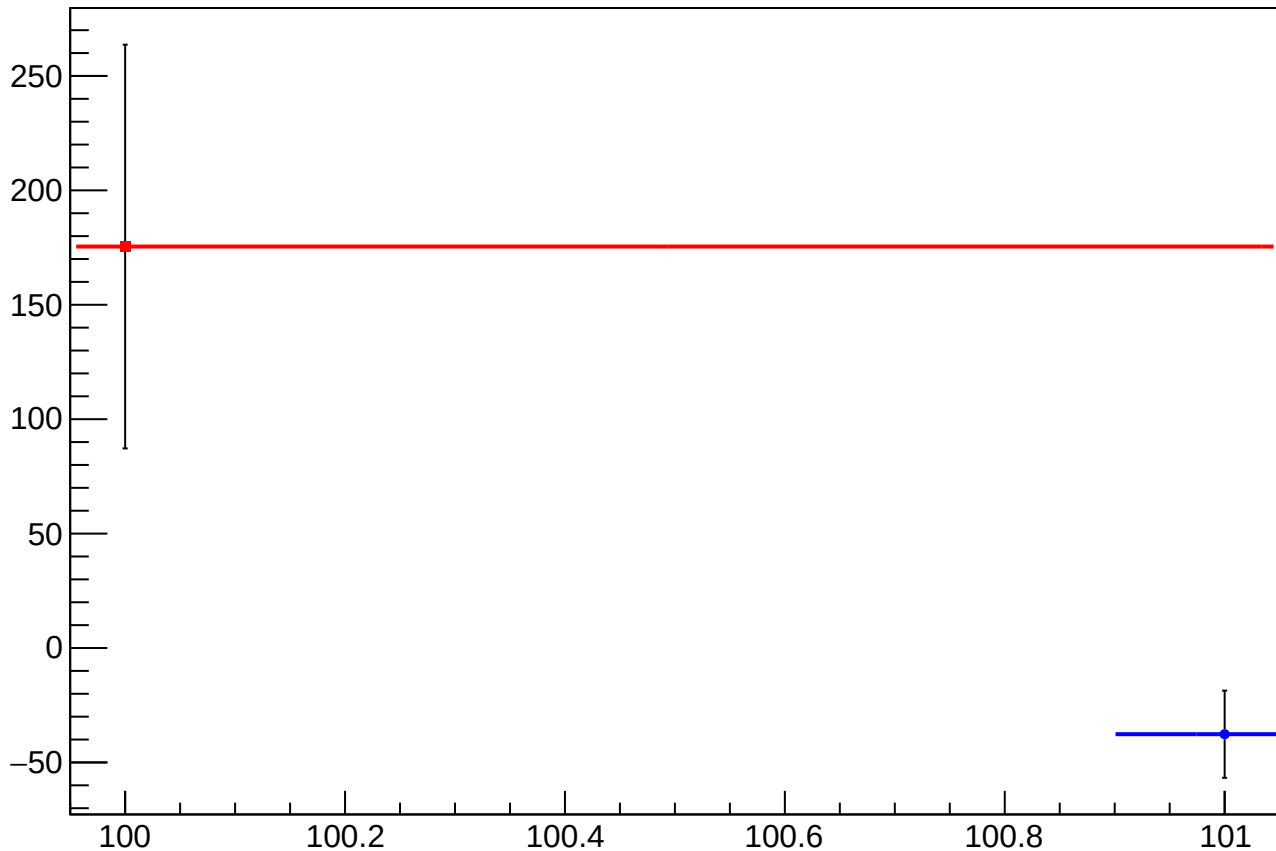
Right: 1419.153 $\pm$ 1.179  $\chi^2$ /NDF: 3015.1/1

In: 1400.861 $\pm$ 1.225  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1419.153 $\pm$ 1.179  $\chi^2$ /NDF: 3015.1/1

diff\_bpmtargetsumX\_mean vs Slug, Sign Corrected



Right In: -37.661 $\pm$ 19.053  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 175.450 $\pm$ 88.216  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

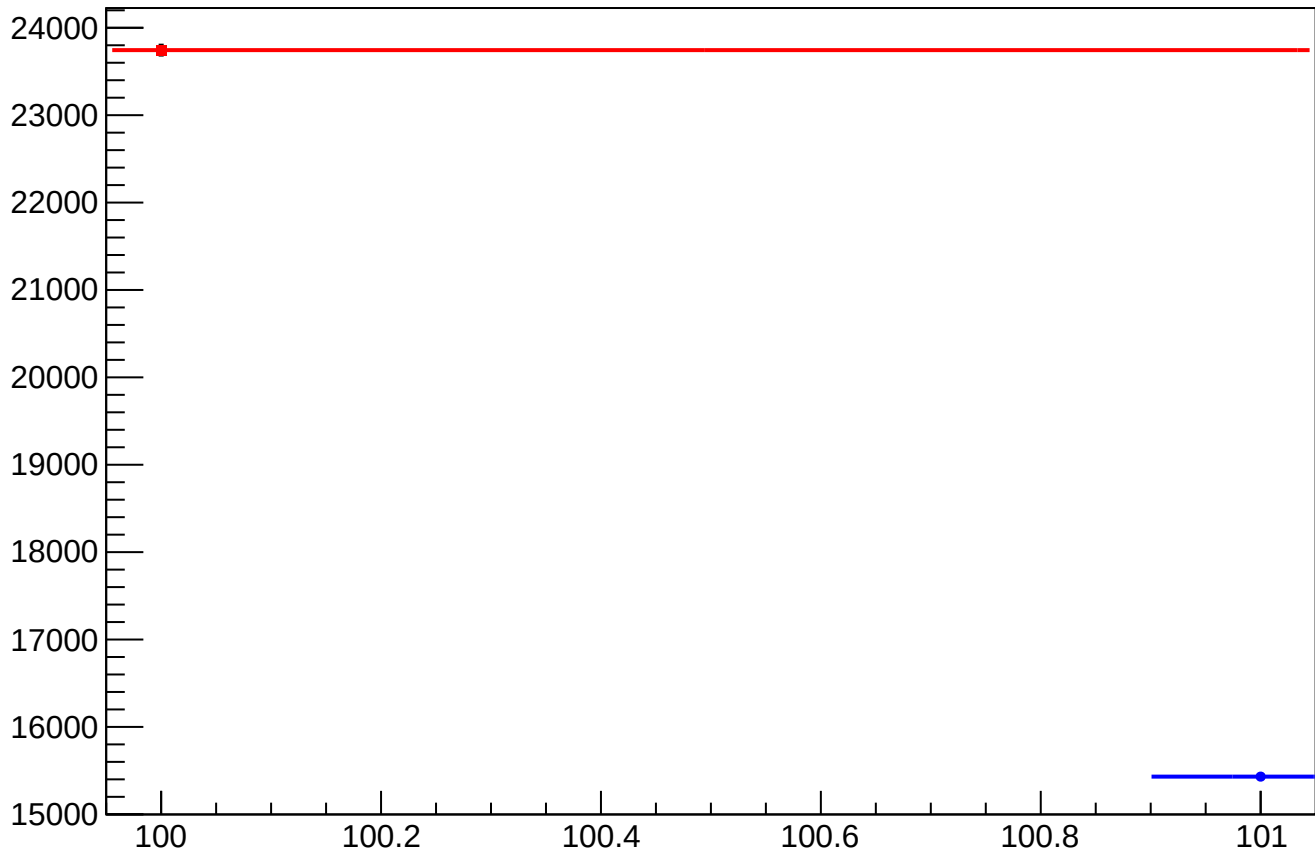
Right: -28.163 $\pm$ 18.623  $\chi^2$ /NDF: 5.6/1

In: -37.661 $\pm$ 19.053  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -28.163 $\pm$ 18.623  $\chi^2$ /NDF: 5.6/1

# diff\_bpmtargetsumX\_rms vs Slug, Sign Corrected



Right In: 15431.273+/-13.472  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23744.458+/-62.378  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 15801.766+/-13.169  $\chi^2/\text{NDF}$ : 16969.6/1

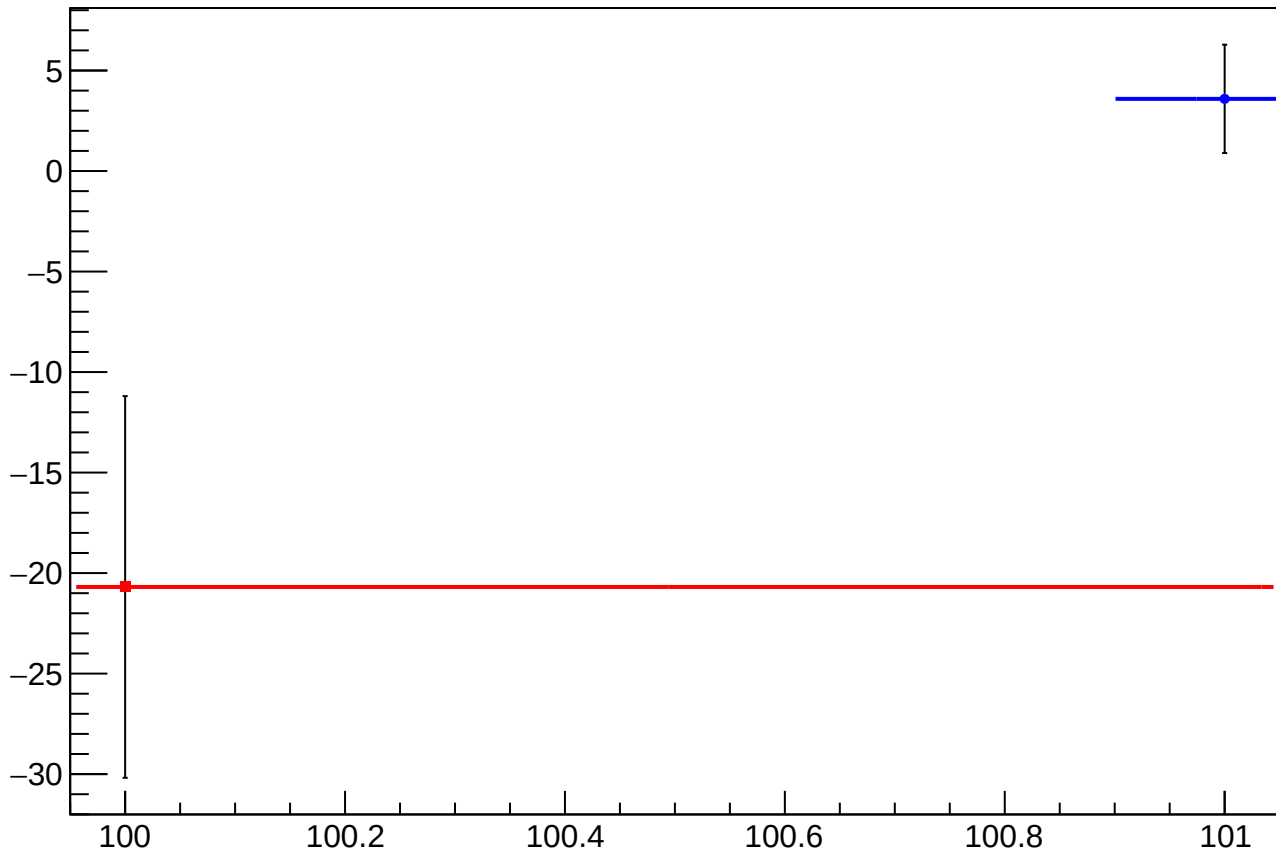
In: 15431.273+/-13.472  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15801.766+/-13.169  $\chi^2/\text{NDF}$ : 16969.6/1



# diff\_bpmtargetdiffX\_mean vs Slug, Sign Corrected



Right In: 3.590+/-2.696     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20.690+/-9.494     $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

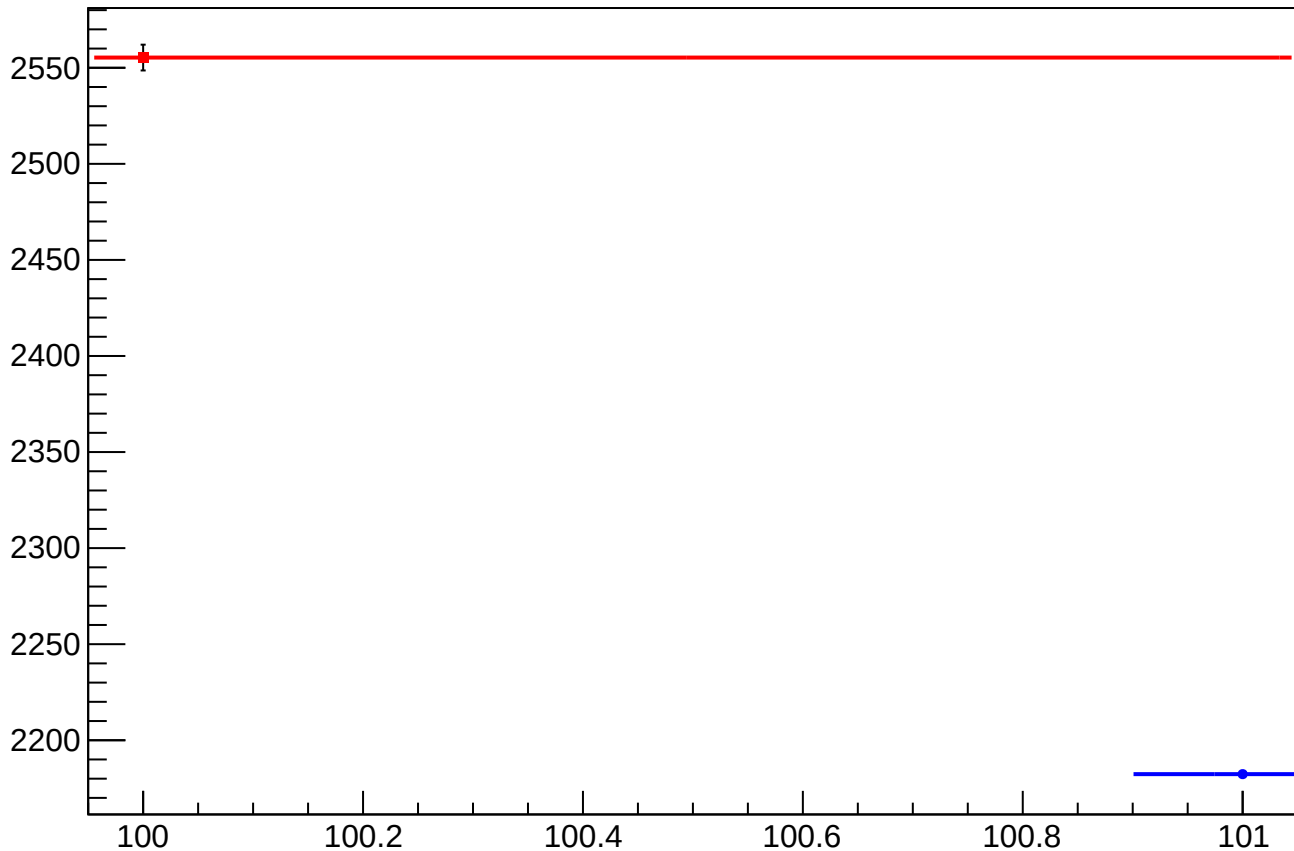
Right: 1.778+/-2.593     $\chi^2/\text{NDF}$ : 6.1/1

In: 3.590+/-2.696     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 1.778+/-2.593     $\chi^2/\text{NDF}$ : 6.1/1

# diff\_bpmtargetdiffX\_rms vs Slug, Sign Corrected



Right In: 2182.362 $\pm$ 1.906  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2555.315 $\pm$ 6.713  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

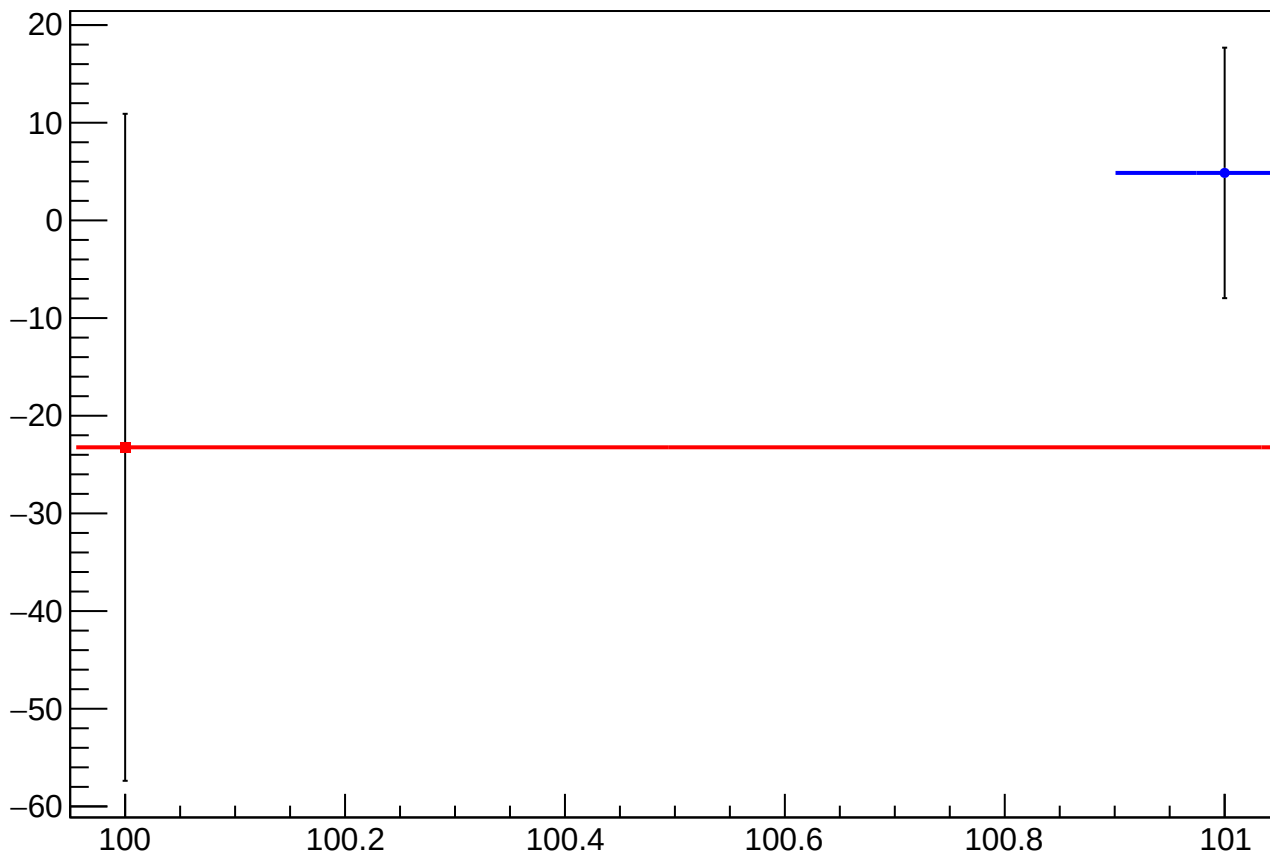
Right: 2210.189 $\pm$ 1.834  $\chi^2/\text{NDF}$ : 2856.2/1

In: 2182.362 $\pm$ 1.906  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2210.189 $\pm$ 1.834  $\chi^2/\text{NDF}$ : 2856.2/1

diff\_bpmtargetsumY\_mean vs Slug, Sign Corrected



Right In: 4.861+/-12.823     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Right Out: -23.232+/-34.145     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

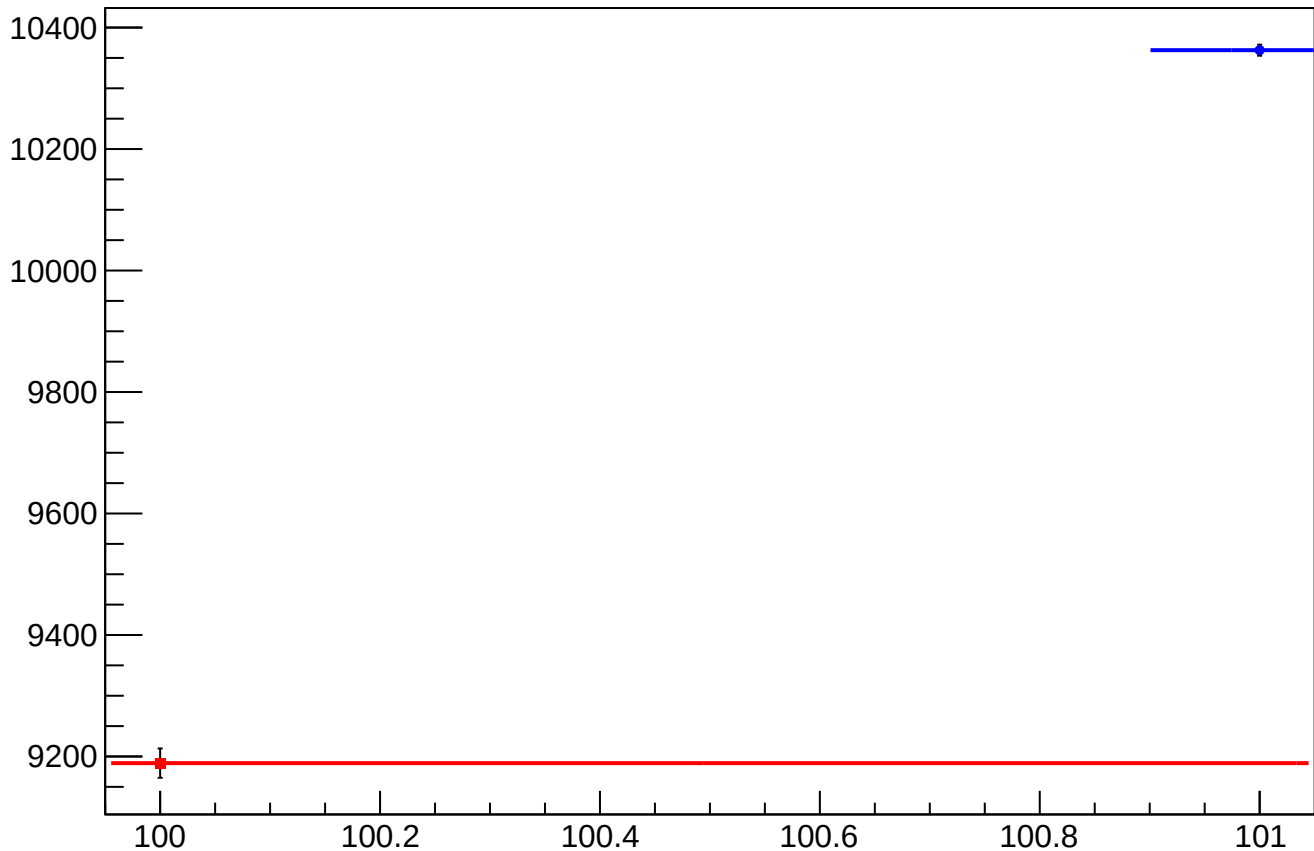
Right: 1.389+/-12.004     $\chi^2$ /NDF: 0.6/1

In: 4.861+/-12.823     $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

All: 1.389+/-12.004     $\chi^2$ /NDF: 0.6/1

diff\_bpmtargetsumY\_rms vs Slug, Sign Corrected



Right In: 10362.766 $\pm$ 9.067  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9189.056 $\pm$ 24.144  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

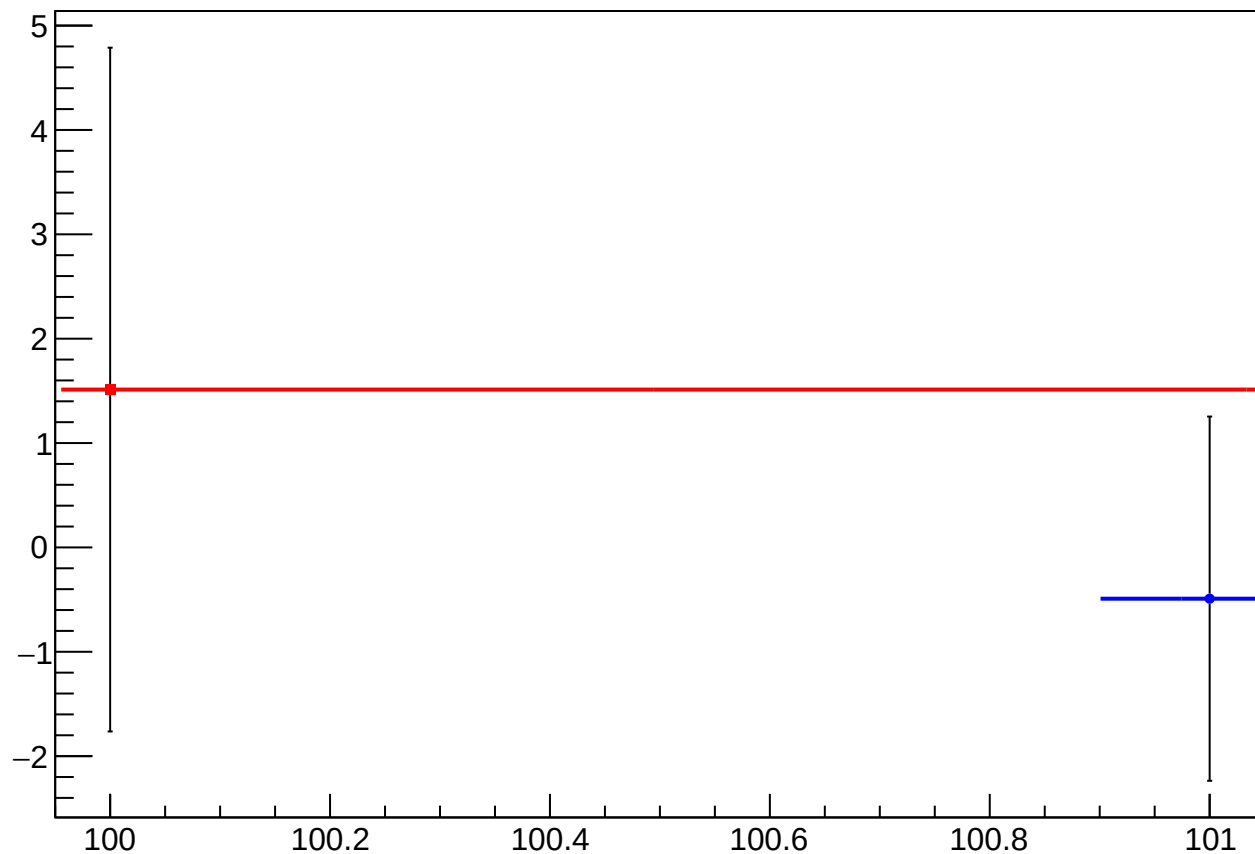
Right: 10217.692 $\pm$ 8.488  $\chi^2/\text{NDF}$ : 2071.1/1

In: 10362.766 $\pm$ 9.067  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10217.692 $\pm$ 8.488  $\chi^2/\text{NDF}$ : 2071.1/1

# diff\_bpmtargetdiffY\_mean vs Slug, Sign Corrected



Right In: -0.491+/-1.745  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.512+/-3.276  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

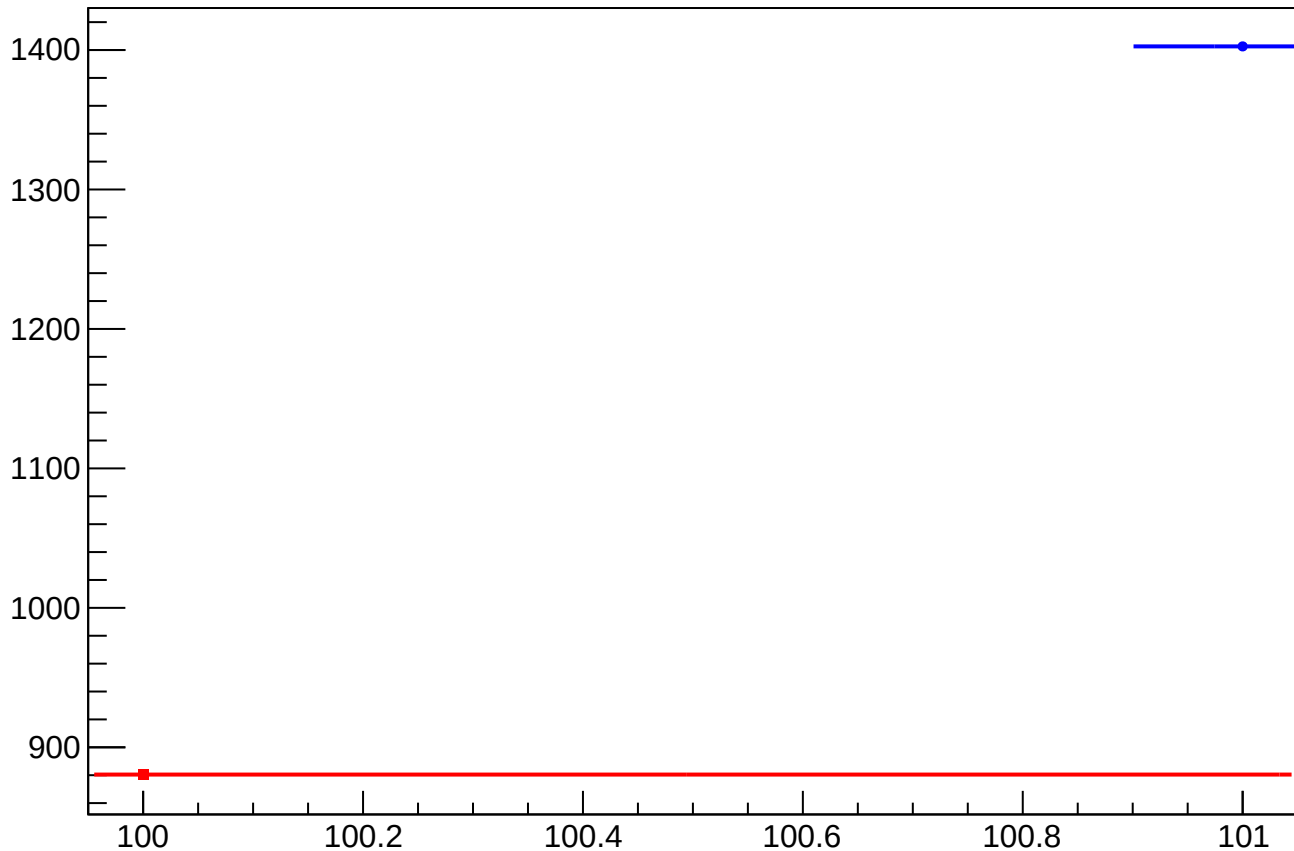
Right: -0.048+/-1.540  $\chi^2/\text{NDF}$ : 0.3/1

In: -0.491+/-1.745  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.048+/-1.540  $\chi^2/\text{NDF}$ : 0.3/1

# diff\_bpmtargetdiffY\_rms vs Slug, Sign Corrected



Right In: 1402.610 $\pm$ 1.234  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 880.454 $\pm$ 2.316  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

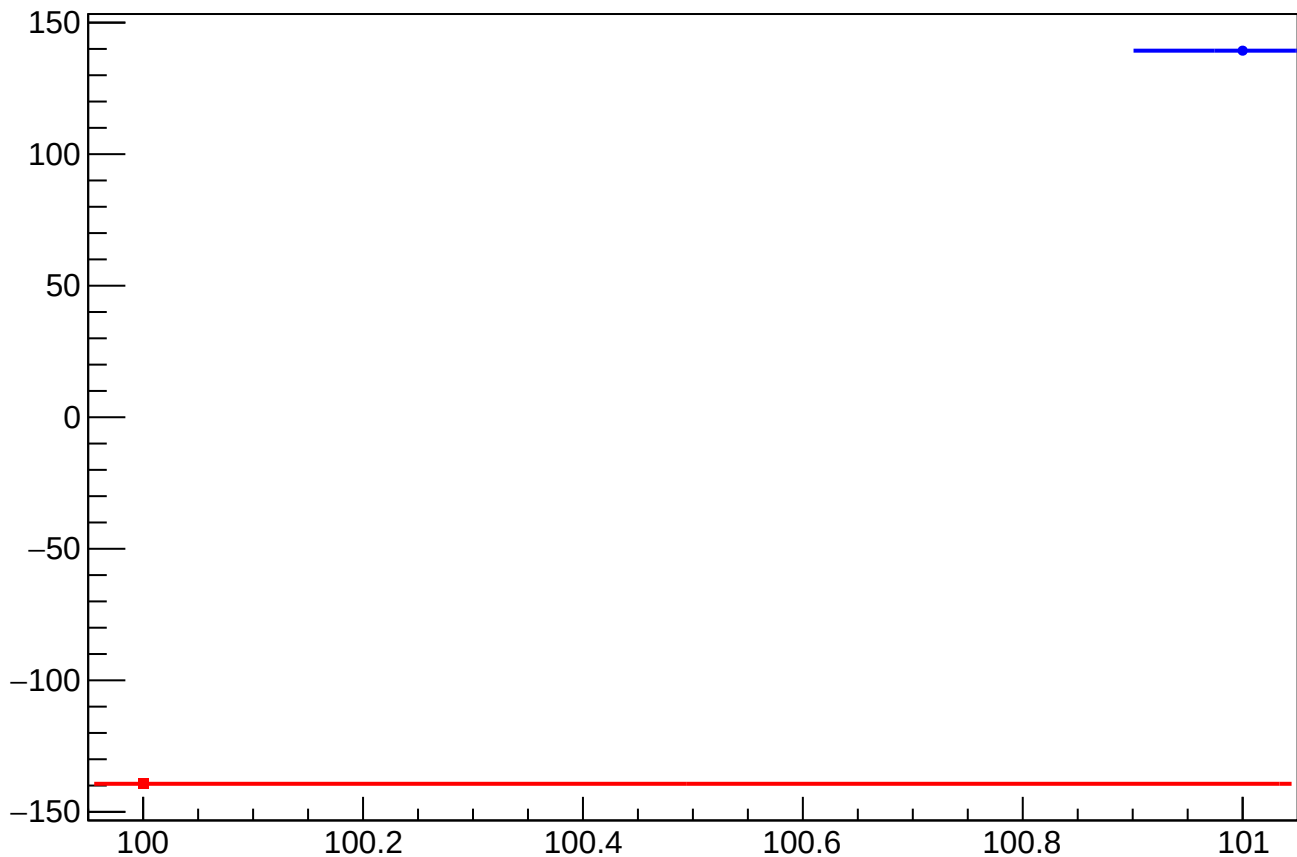
Right: 1287.207 $\pm$ 1.089  $\chi^2$ /NDF: 39579.9/1

In: 1402.610 $\pm$ 1.234  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1287.207 $\pm$ 1.089  $\chi^2$ /NDF: 39579.9/1

yield\_cav4bX\_mean vs Slug, Sign Corrected



Right In: 139.336+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -139.329+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

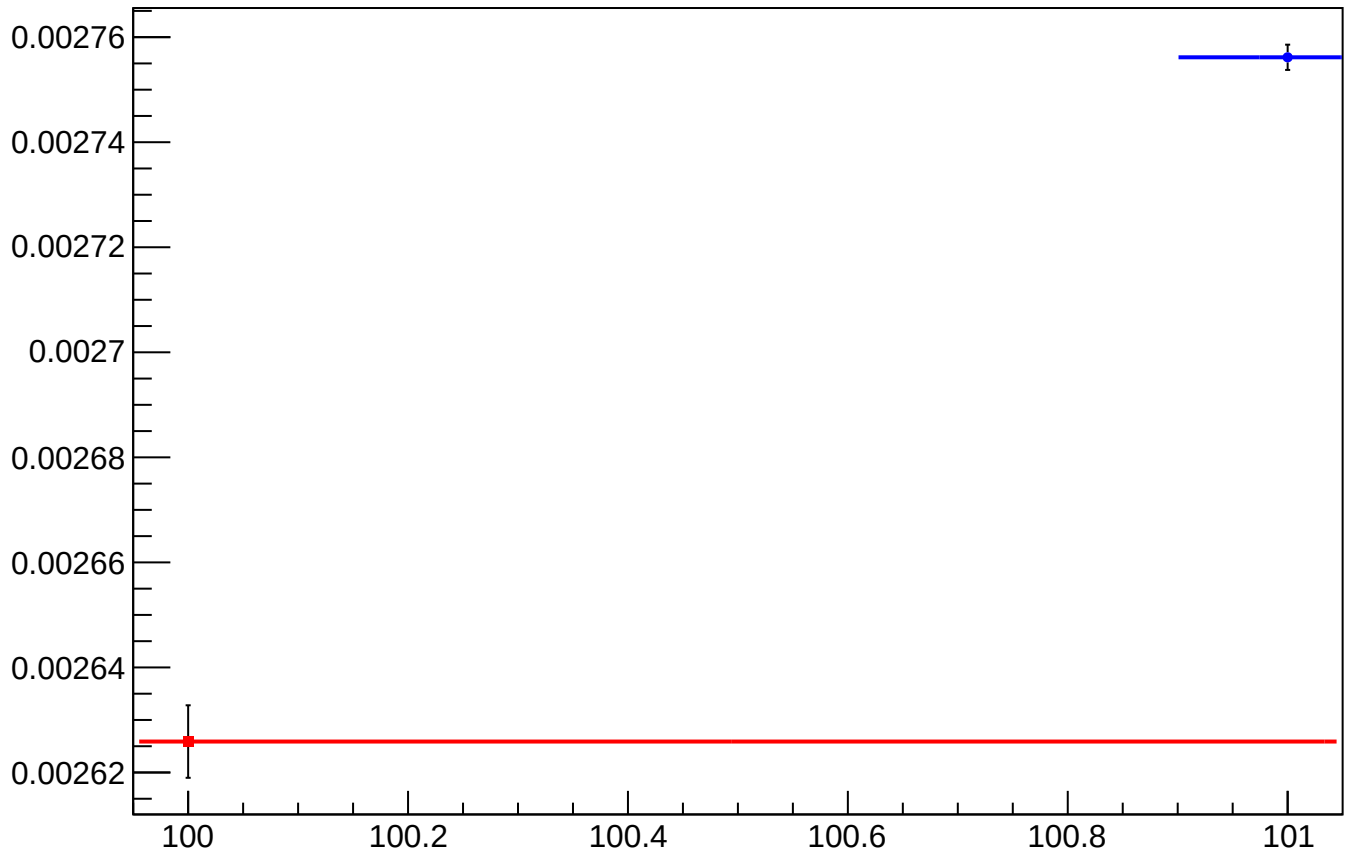
Right: 109.180+/-0.000  $\chi^2/\text{NDF}$ : 726697527460445

In: 139.336+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 109.180+/-0.000  $\chi^2/\text{NDF}$ : 726697527460

# yield\_cav4bX\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 317.6/1

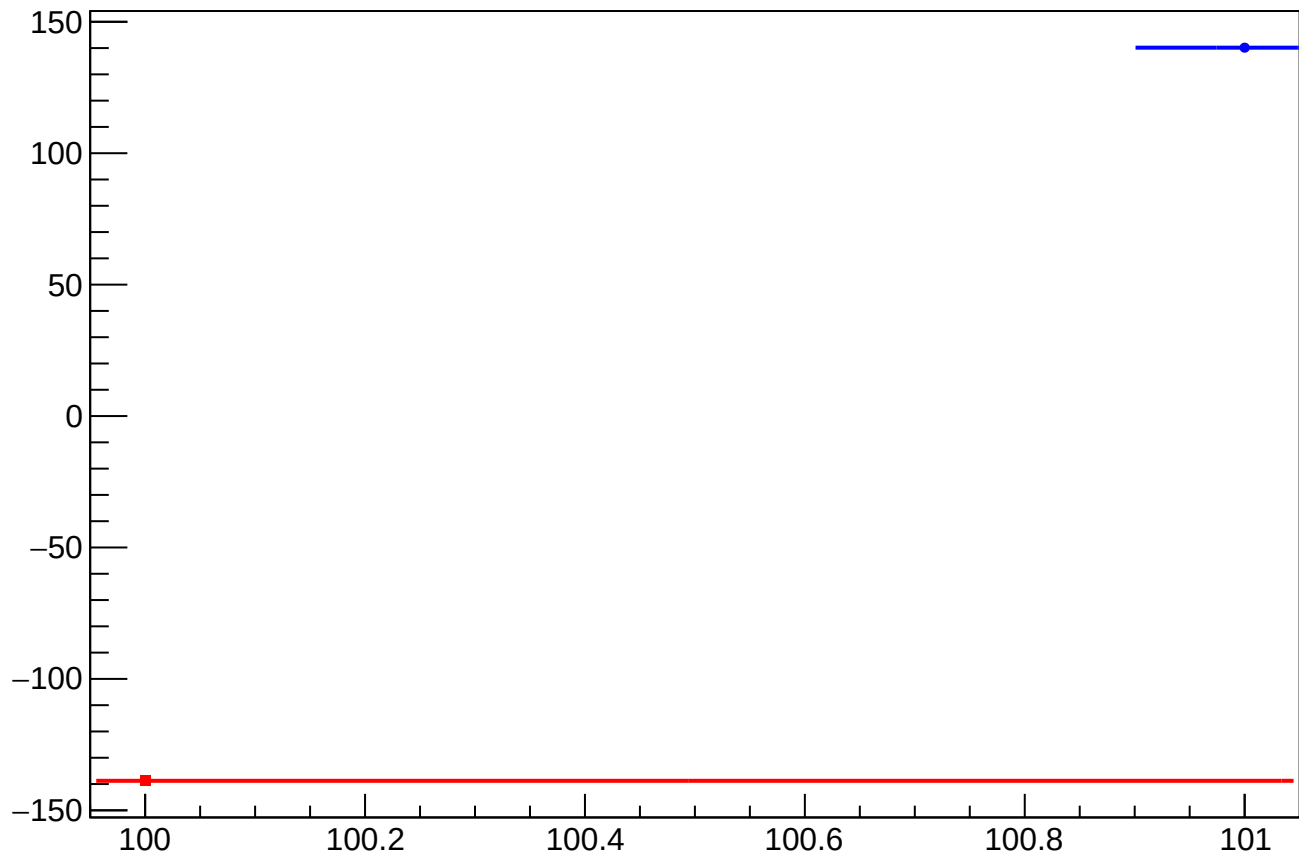
In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 317.6/1



yield\_cav4bY\_mean vs Slug, Sign Corrected



Right In: 140.154+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -138.767+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

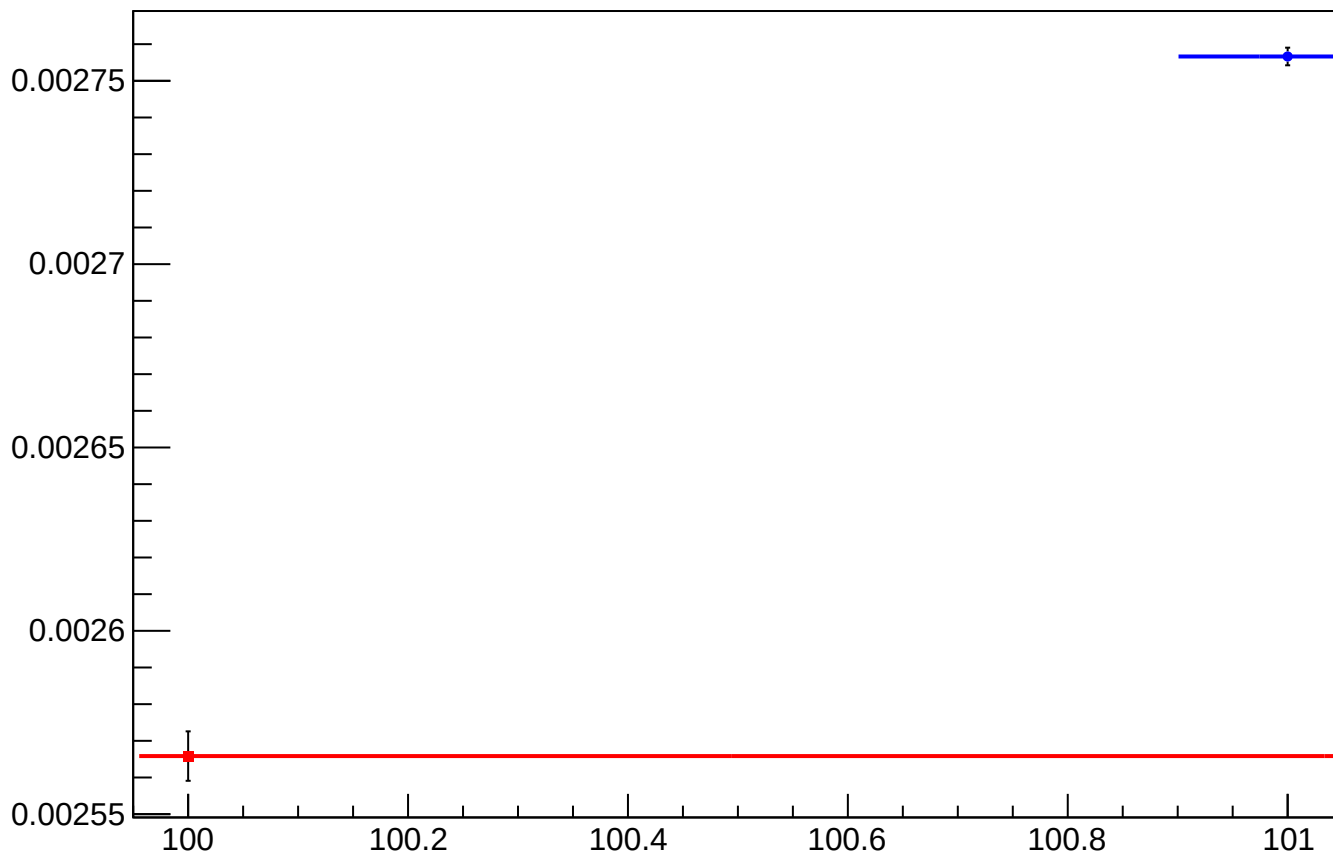
Right: 108.678+/-0.000  $\chi^2/\text{NDF}$ : 759018935922158

In: 140.154+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.678+/-0.000  $\chi^2/\text{NDF}$ : 759018935922158

# yield\_cav4bY\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

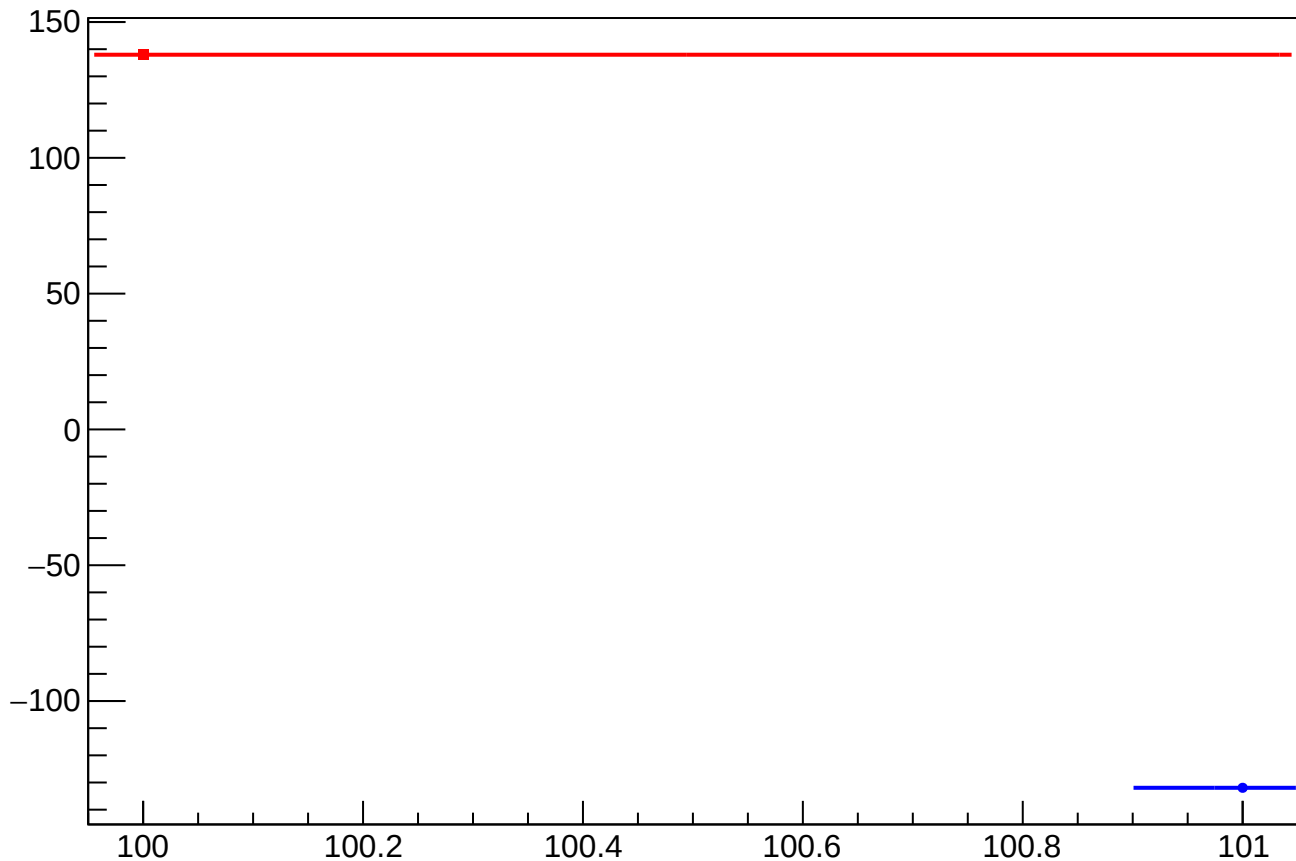
Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 710.3/1

In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 710.3/1

# yield\_cav4cX\_mean vs Slug, Sign Corrected



Right In: -131.946 $\pm$ 0.002  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 137.963 $\pm$ 0.020  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

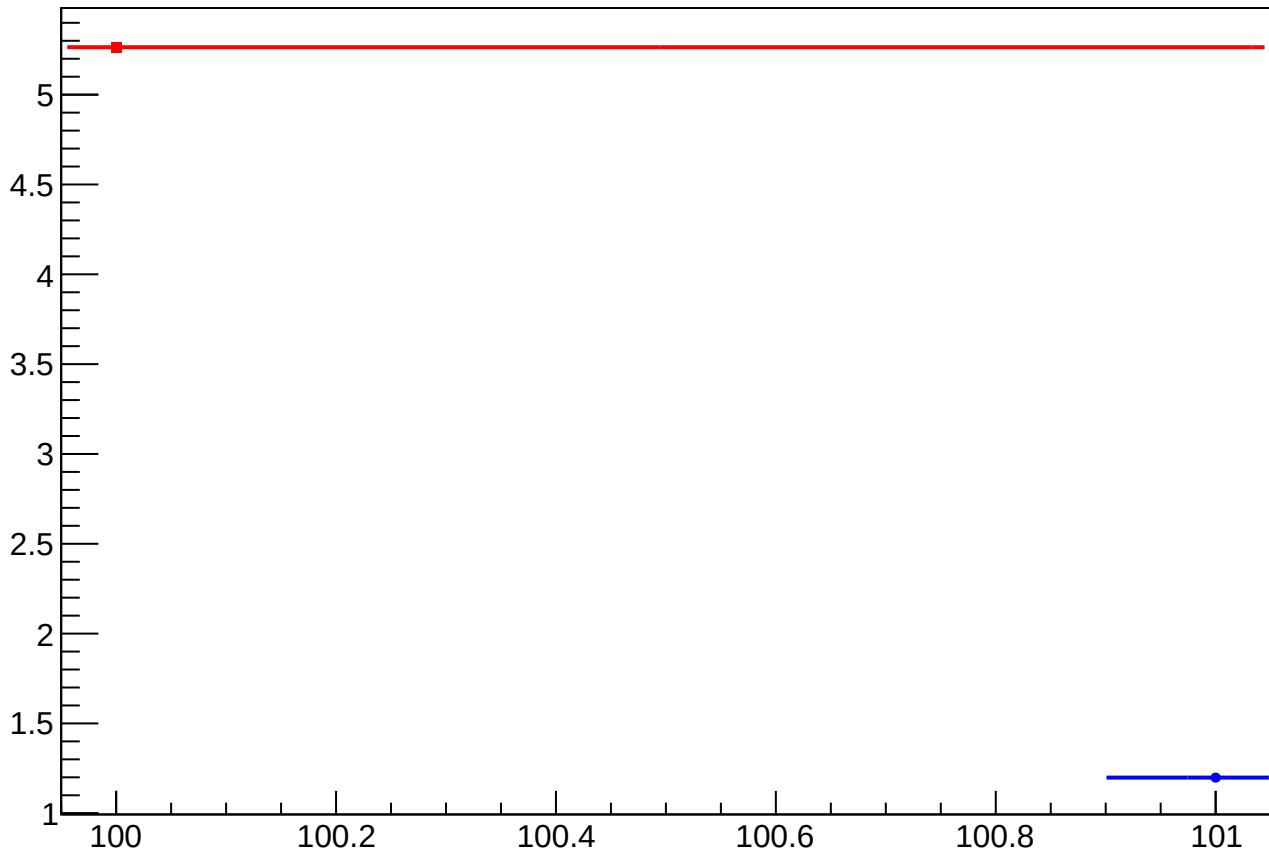
Right: -130.240 $\pm$ 0.002  $\chi^2$ /NDF: 181896047.4/1

In: -131.946 $\pm$ 0.002  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -130.240 $\pm$ 0.002  $\chi^2$ /NDF: 181896047.4/1

# yield\_cav4cX\_rms vs Slug, Sign Corrected



Right In: 1.198 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5.264 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

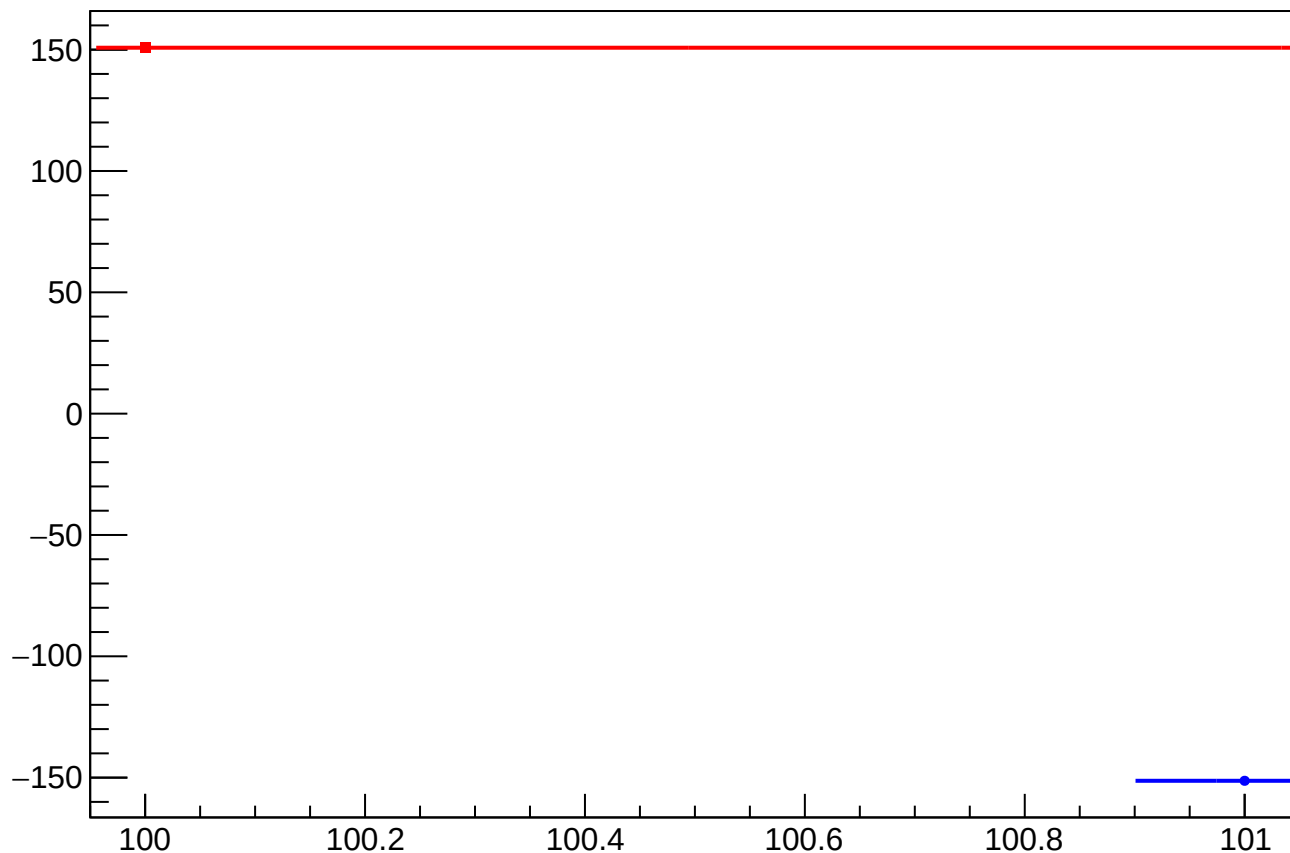
Right: 1.224 $\pm$ 0.001  $\chi^2$ /NDF: 82547.7/1

In: 1.198 $\pm$ 0.001  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1.224 $\pm$ 0.001  $\chi^2$ /NDF: 82547.7/1

# yield\_cav4cY\_mean vs Slug, Sign Corrected



Right In: -151.302 $\pm$ 0.003  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 150.802 $\pm$ 0.020  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -143.927 $\pm$ 0.003  $\chi^2$ /NDF: 212144741.6/1

In: -151.302 $\pm$ 0.003  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -143.927 $\pm$ 0.003  $\chi^2$ /NDF: 212144741.6/1

# yield\_cav4cY\_rms vs Slug, Sign Corrected



Right In: 2.441 $\pm$ 0.002  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5.462 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

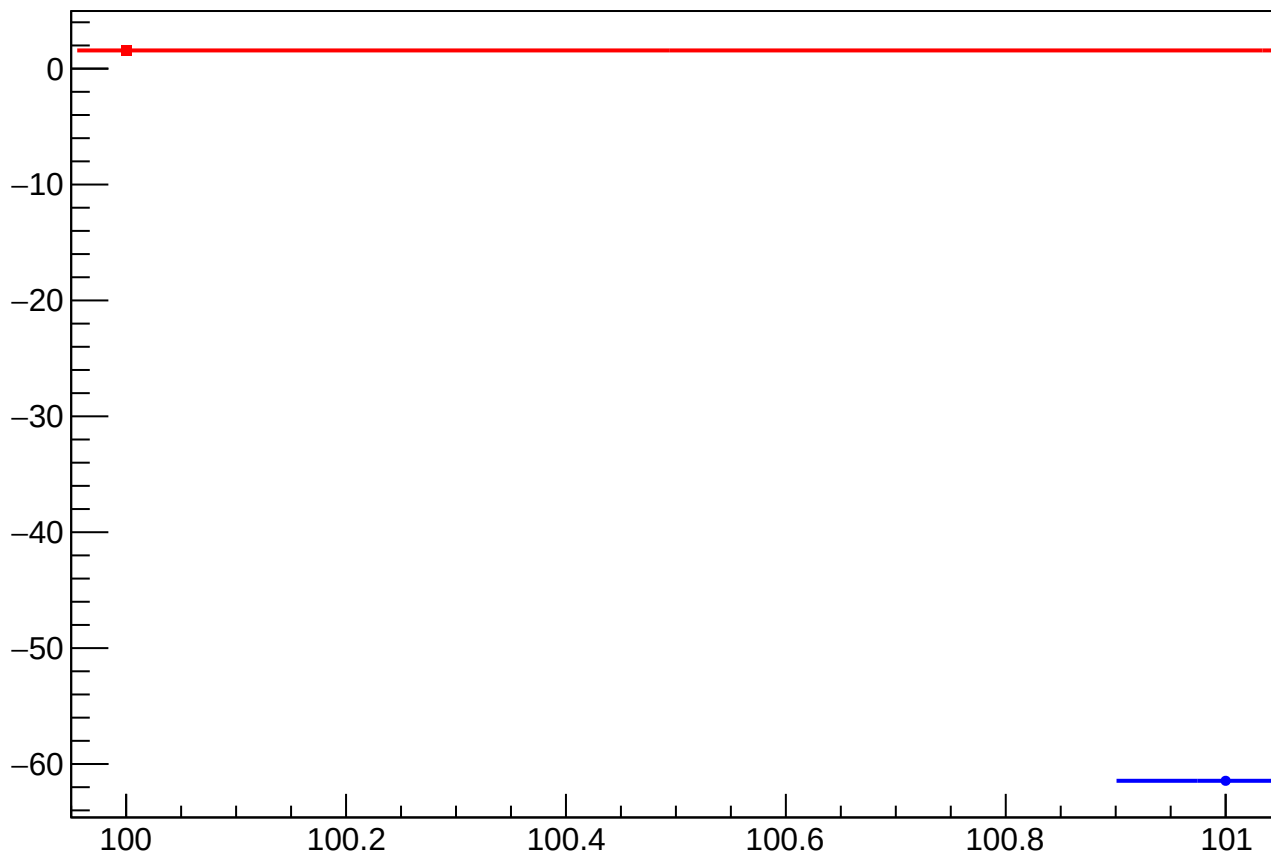
Right: 2.515 $\pm$ 0.002  $\chi^2$ /NDF: 42420.4/1

In: 2.441 $\pm$ 0.002  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2.515 $\pm$ 0.002  $\chi^2$ /NDF: 42420.4/1

# yield\_cav4dX\_mean vs Slug, Sign Corrected



Right In: -61.449 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.571 $\pm$ 0.238  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

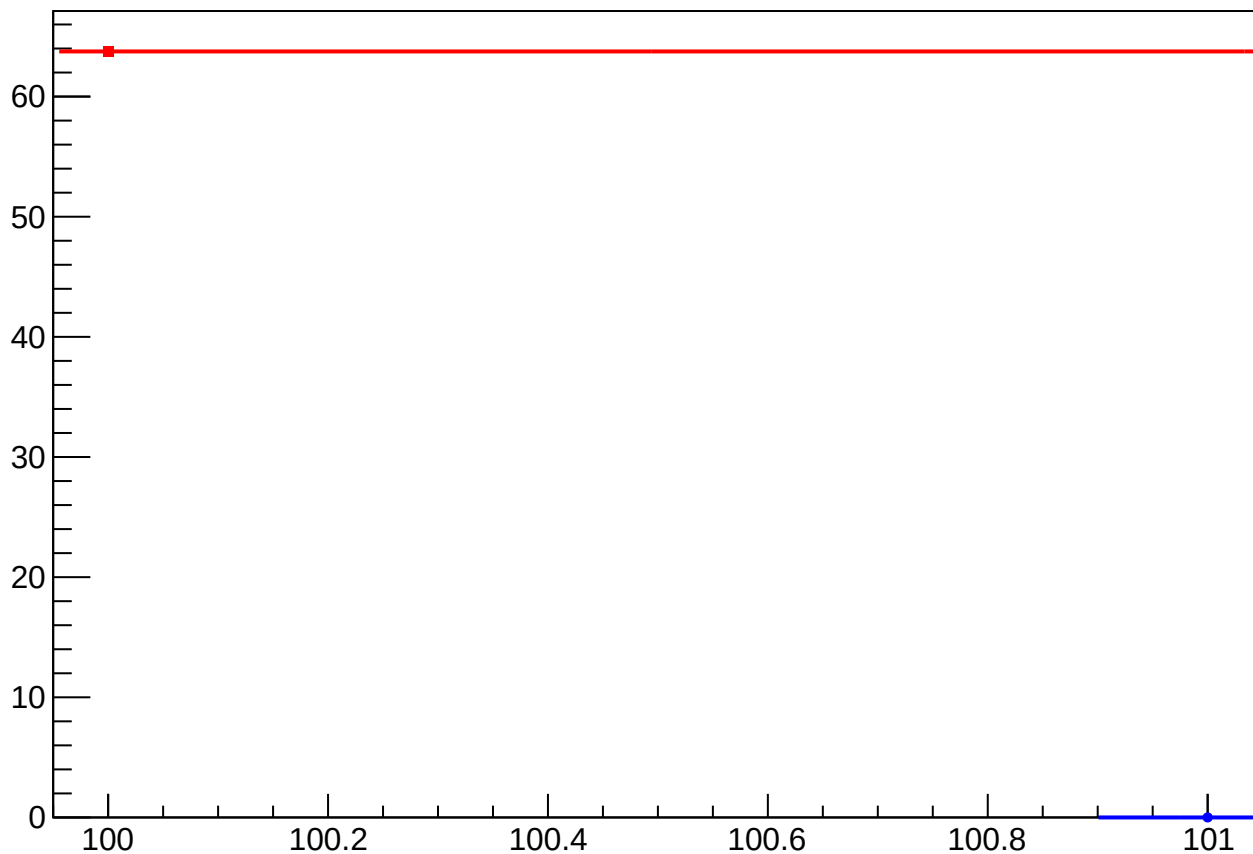
Right: -61.449 $\pm$ 0.000  $\chi^2$ /NDF: 69945.4/1

In: -61.449 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -61.449 $\pm$ 0.000  $\chi^2$ /NDF: 69945.4/1

# yield\_cav4dX\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 63.756+/-0.168  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 143170.3/1

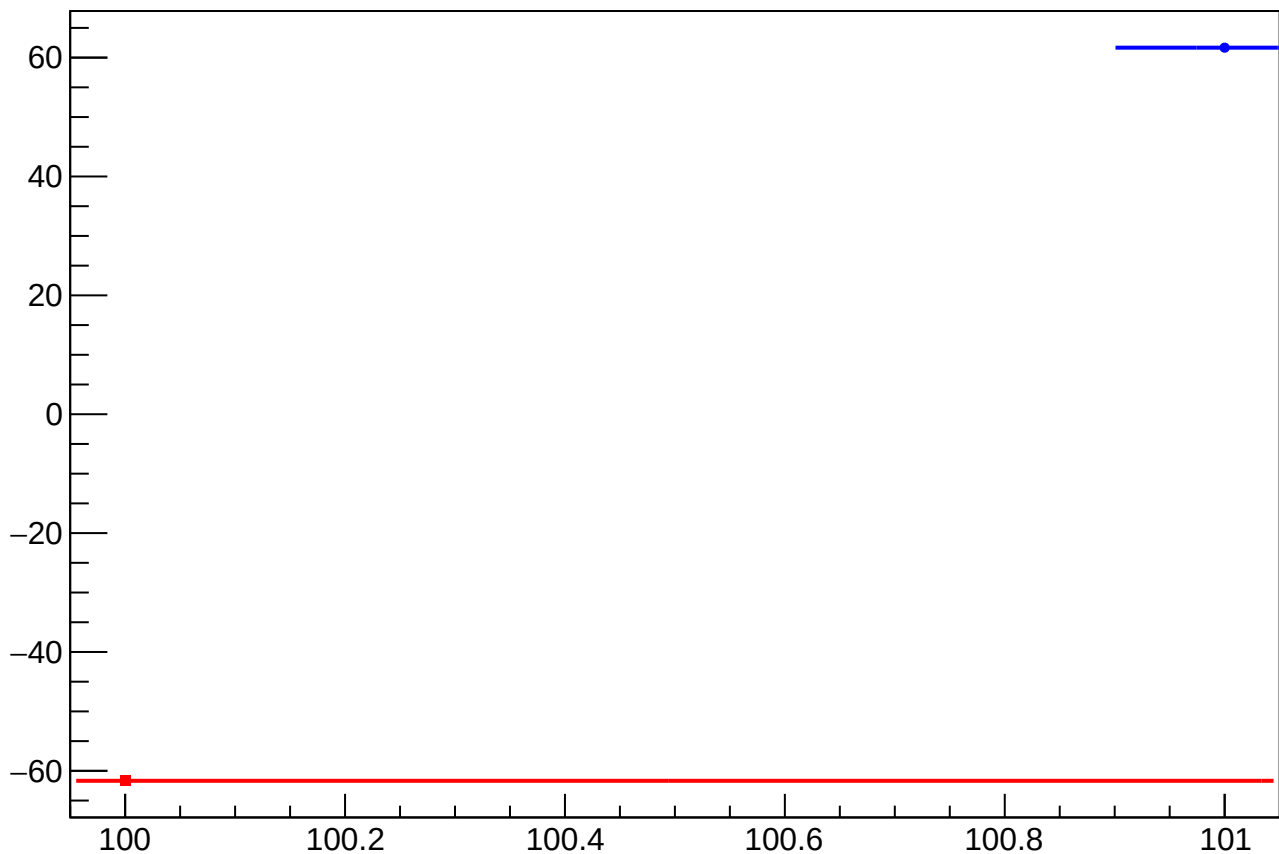
In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 143170.3/1



yield\_cav4dY\_mean vs Slug, Sign Corrected



Right In: 61.674+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -61.675+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

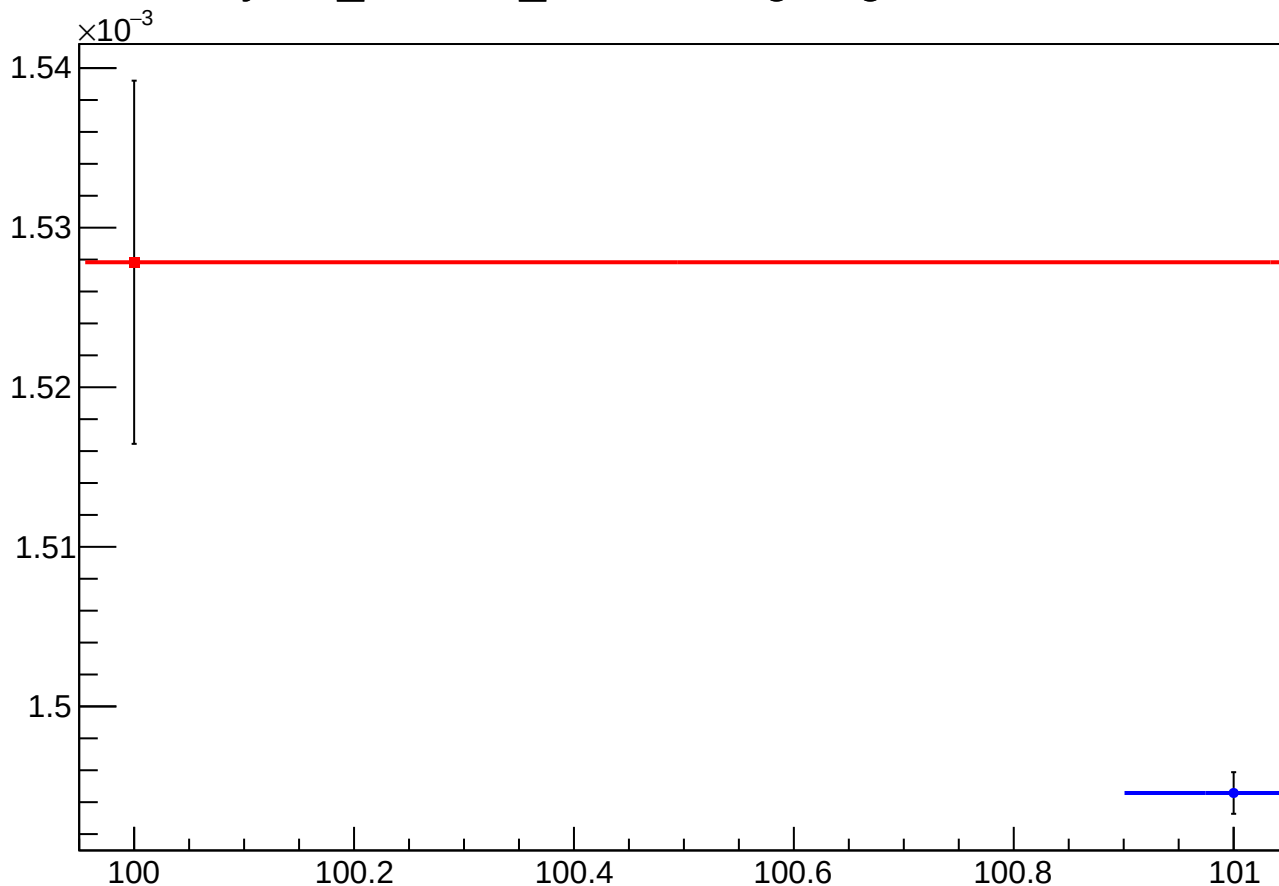
Right: 60.075+/-0.000  $\chi^2/\text{NDF}$ : 57995853495569.6

In: 61.674+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 60.075+/-0.000  $\chi^2/\text{NDF}$ : 5799585349556

# yield\_cav4dY\_rms vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

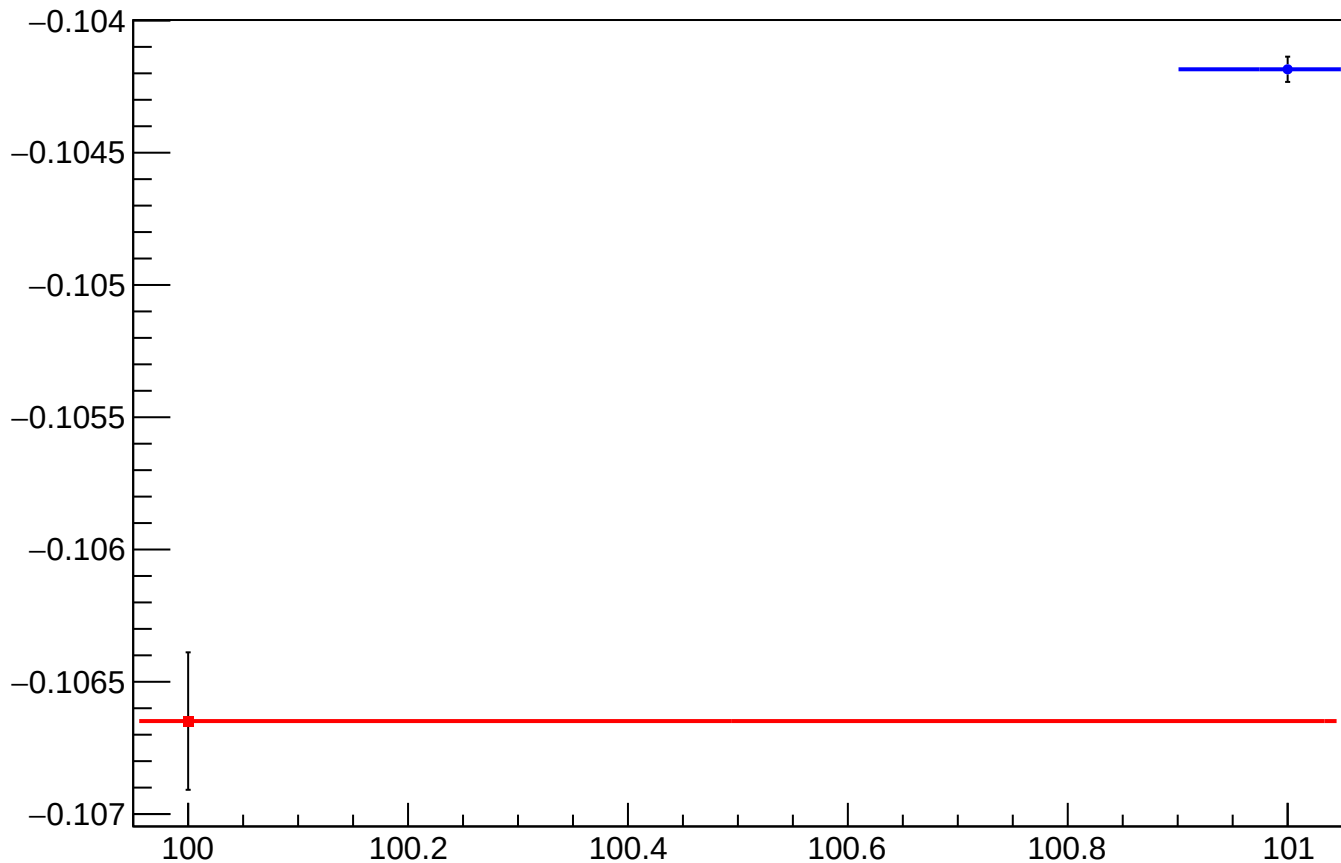
Right: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 8.4/1

In: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 8.4/1

# yield\_bpm4aX\_mean vs Slug, Sign Corrected



Right In: -0.104+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.107+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

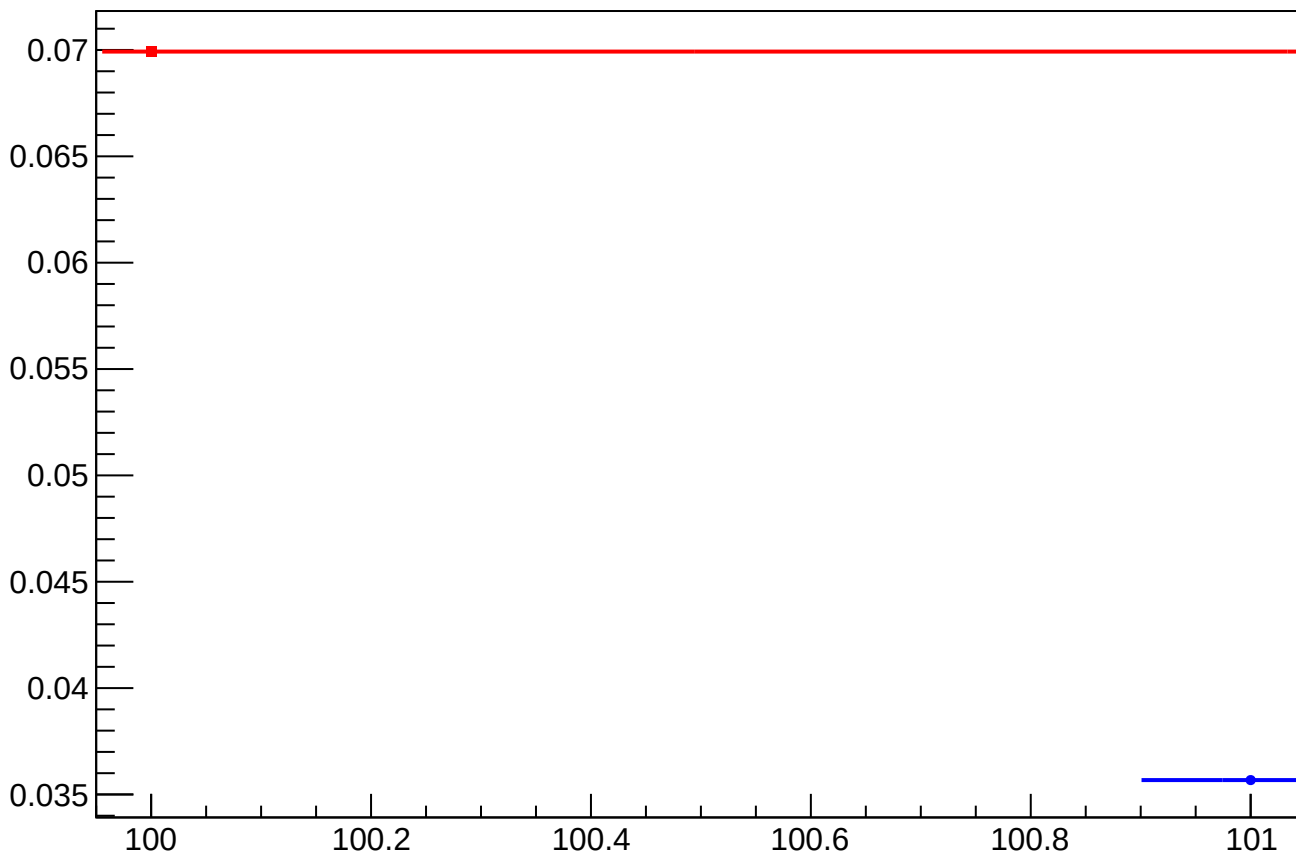
Right: -0.104+/-0.000  $\chi^2/\text{NDF}$ : 87.0/1

In: -0.104+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.104+/-0.000  $\chi^2/\text{NDF}$ : 87.0/1

# yield\_bpm4aX\_rms vs Slug, Sign Corrected



Right In: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.070+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

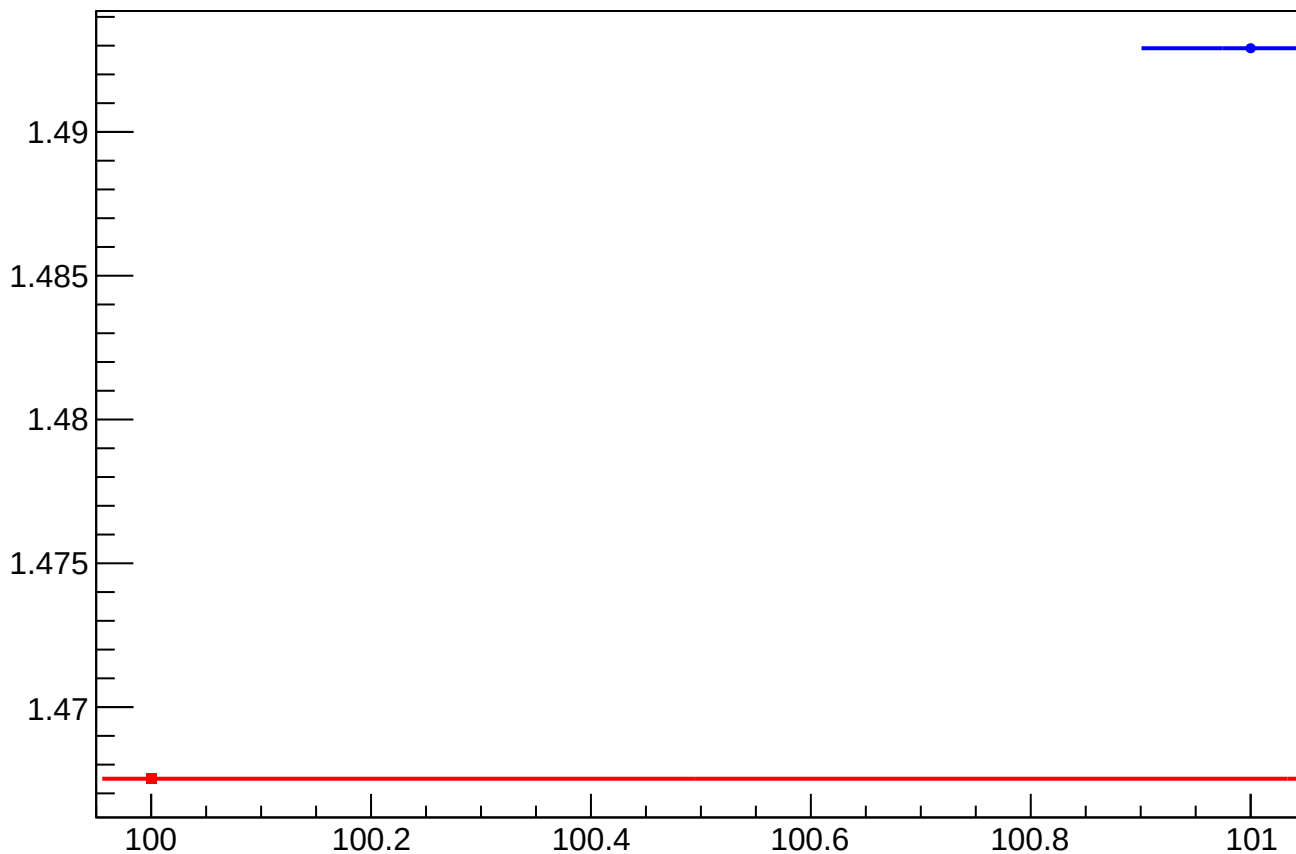
Right: 0.037+/-0.000  $\chi^2/\text{NDF}$ : 33622.9/1

In: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.037+/-0.000  $\chi^2/\text{NDF}$ : 33622.9/1

yield\_bpm4aY\_mean vs Slug, Sign Corrected



Right In: 1.493+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.468+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

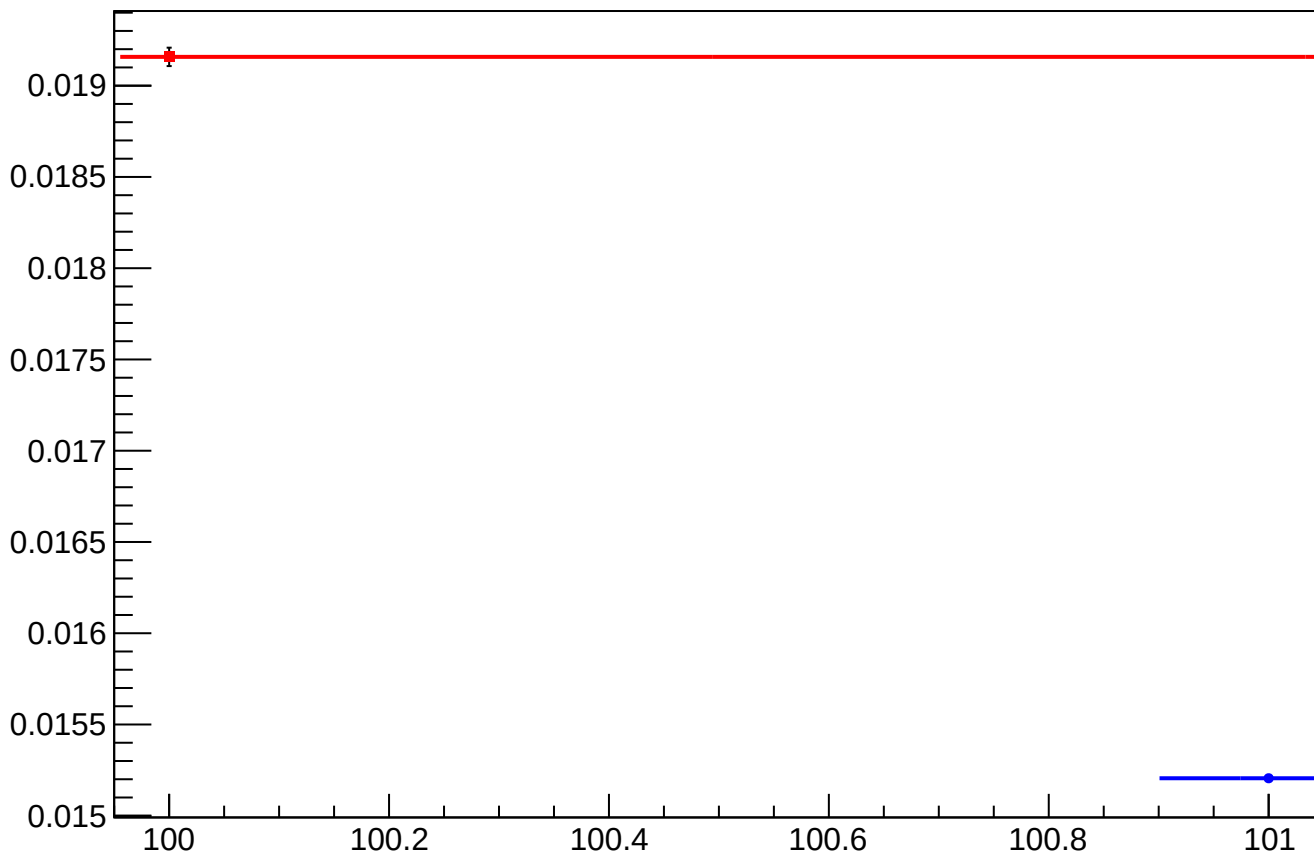
Right: 1.491+/-0.000  $\chi^2/\text{NDF}$ : 117946.2/1

In: 1.493+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.491+/-0.000  $\chi^2/\text{NDF}$ : 117946.2/1

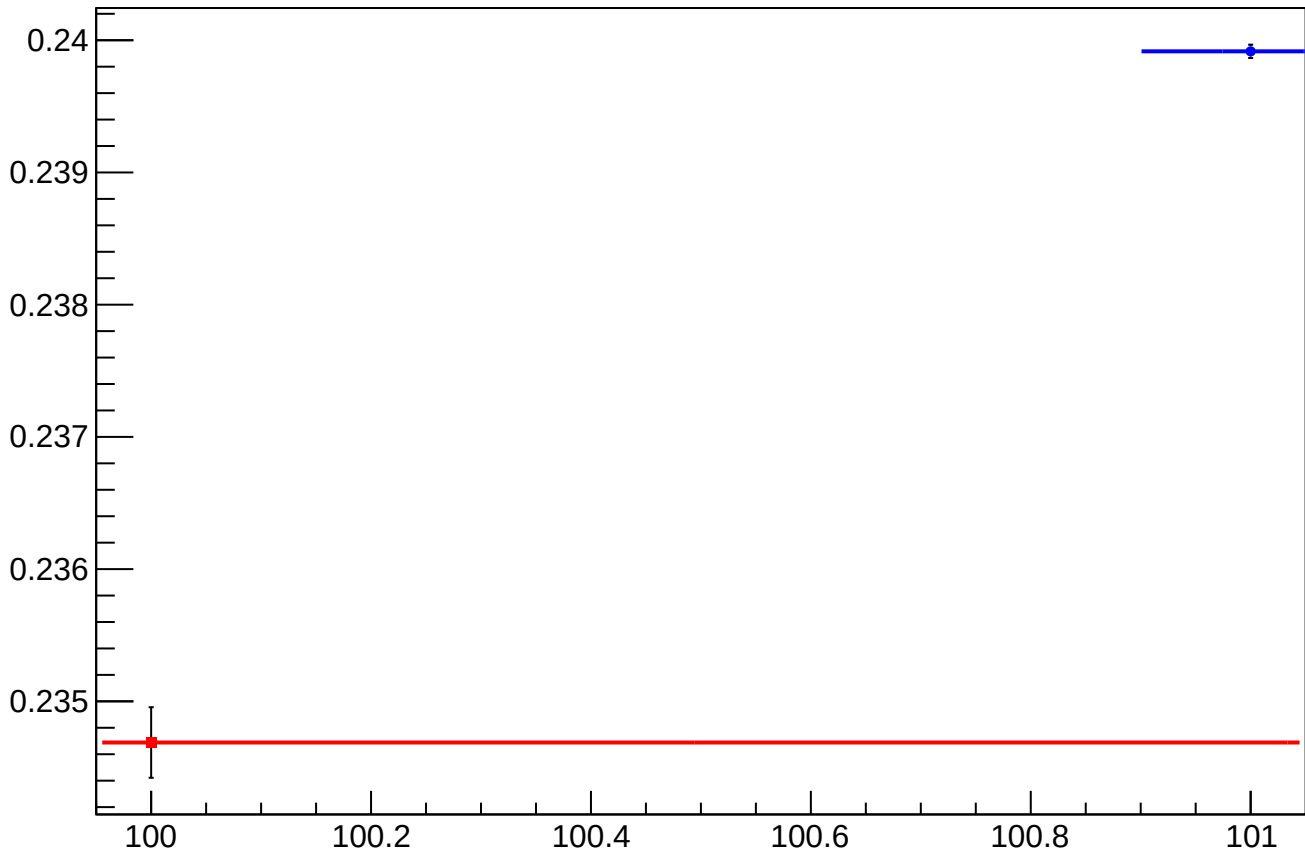
# yield\_bpm4aY\_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 5711.3/1  
In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 5711.3/1

# yield\_bpm4eX\_mean vs Slug, Sign Corrected



Right In: 0.240+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.235+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

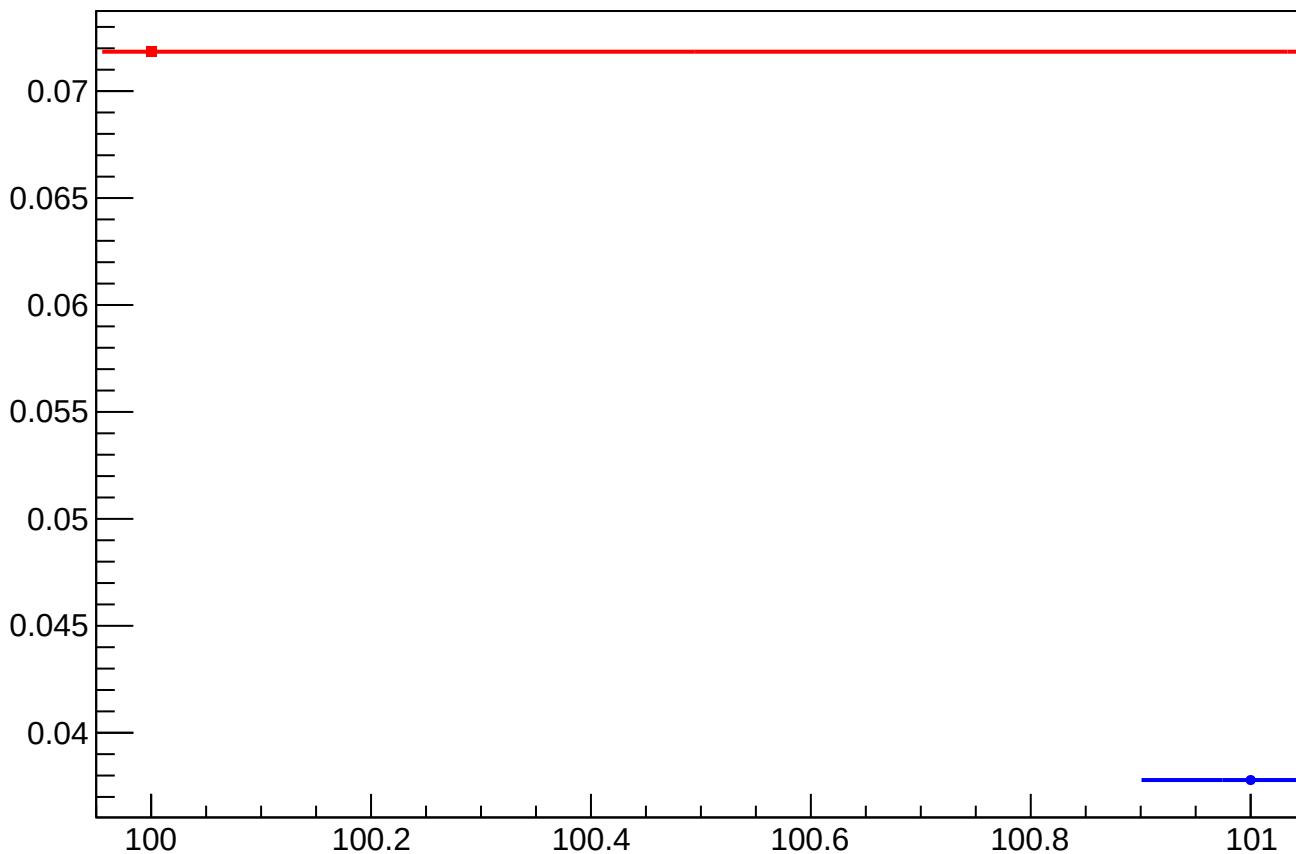
Right: 0.240+/-0.000  $\chi^2/\text{NDF}$ : 370.2/1

In: 0.240+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.240+/-0.000  $\chi^2/\text{NDF}$ : 370.2/1

# yield\_bpm4eX\_rms vs Slug, Sign Corrected



Right In: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.072+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 31418.7/1

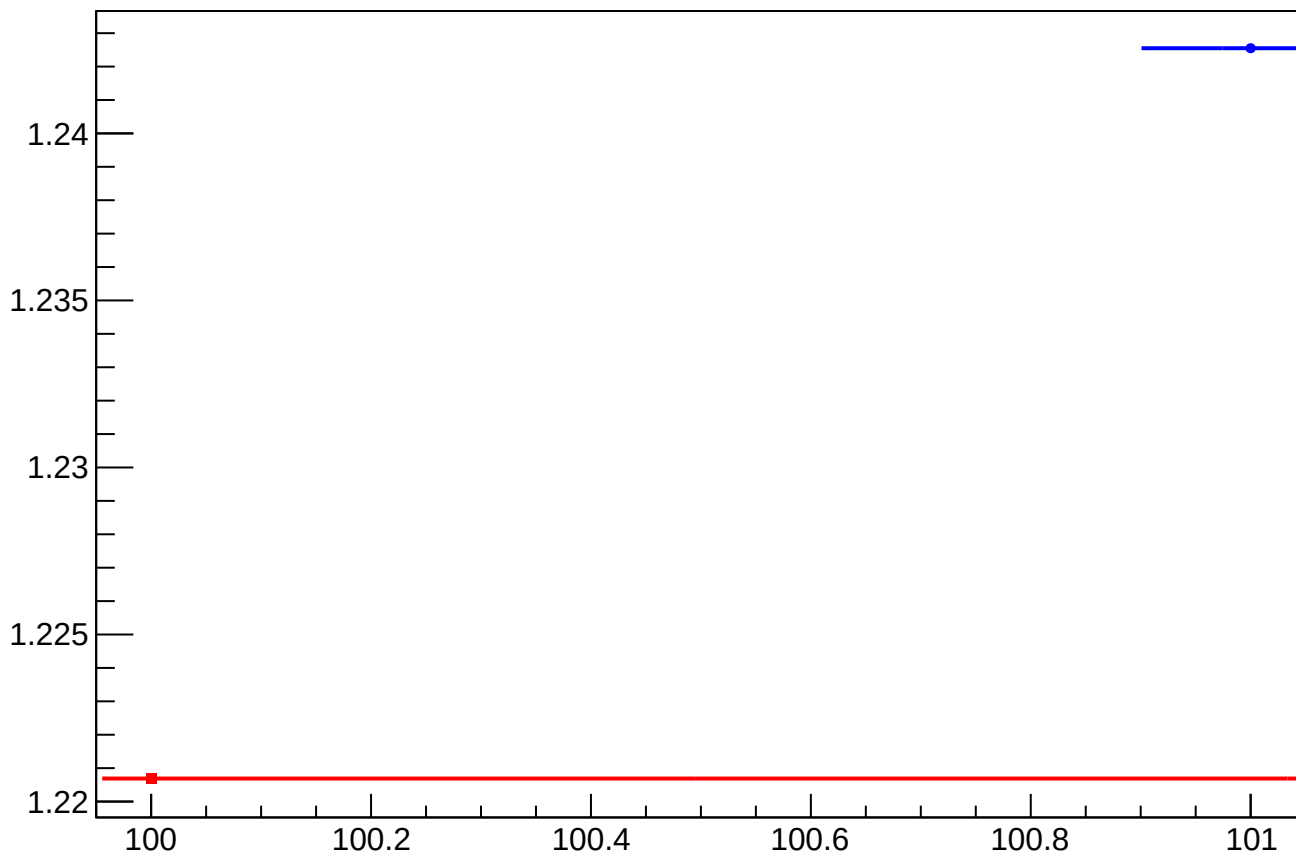
In: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 31418.7/1



# yield\_bpm4eY\_mean vs Slug, Sign Corrected



Right In: 1.243+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.221+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

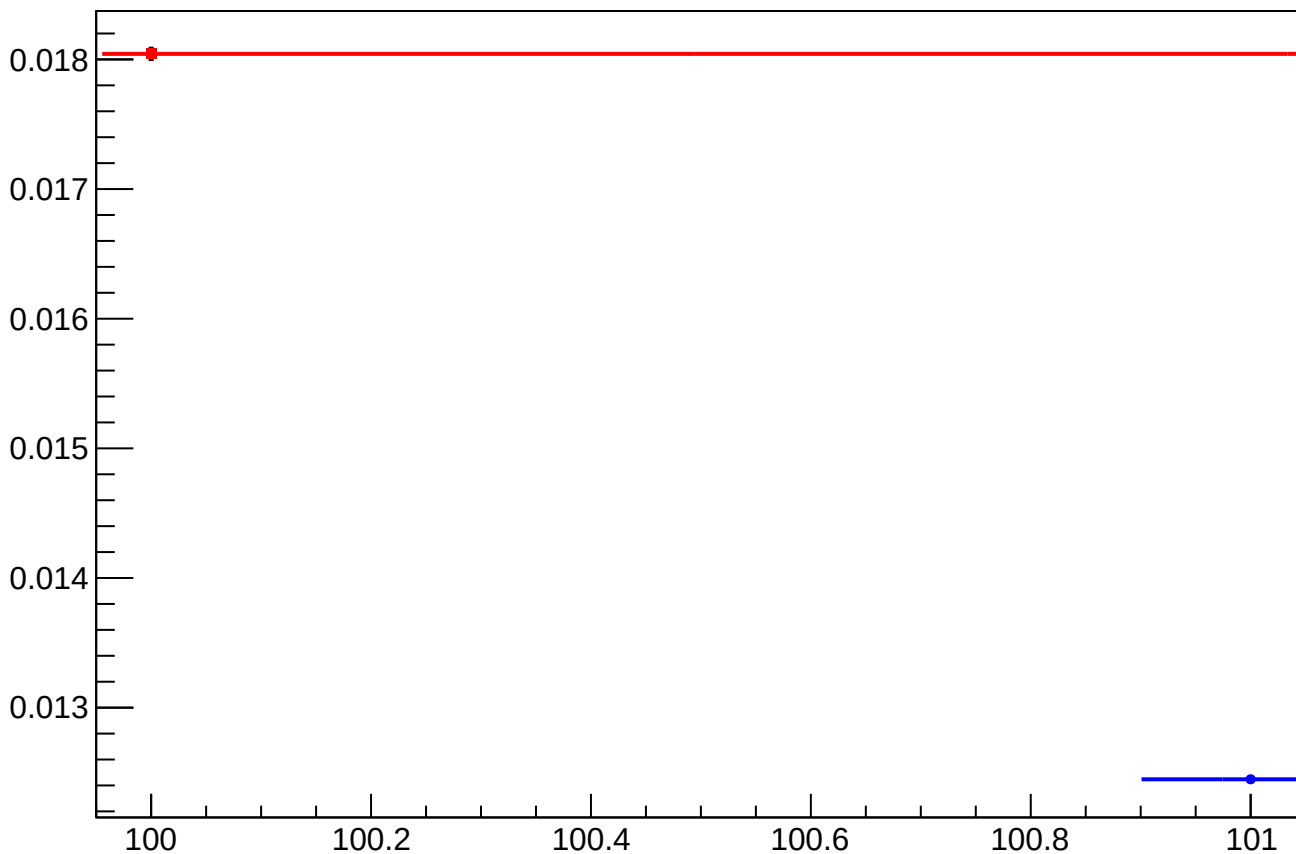
Right: 1.241+/-0.000  $\chi^2/\text{NDF}$ : 98643.9/1

In: 1.243+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.241+/-0.000  $\chi^2/\text{NDF}$ : 98643.9/1

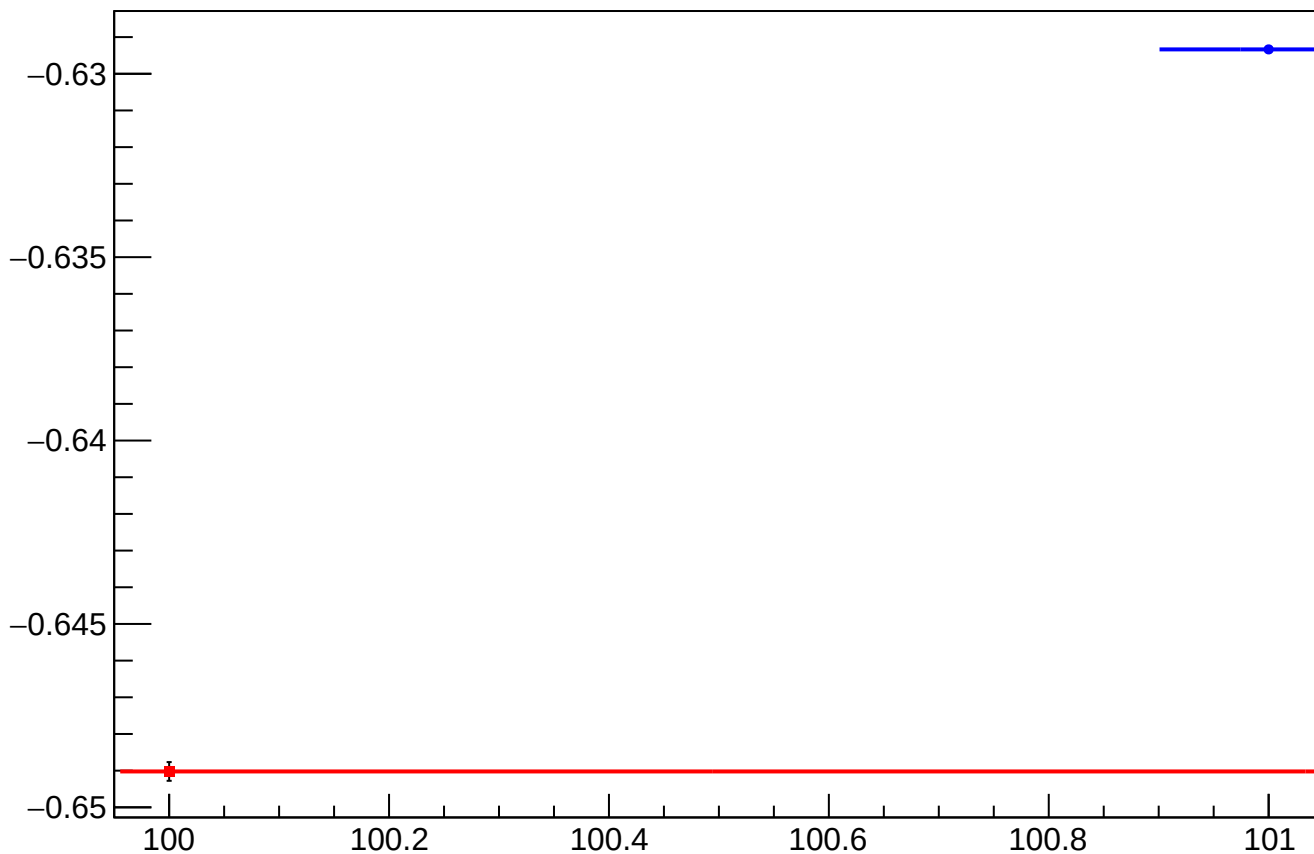
# yield\_bpm4eY\_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 12924.6/1  
In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 12924.6/1

# yield\_bpm4acX\_mean vs Slug, Sign Corrected



Right In:  $-0.629 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.649 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

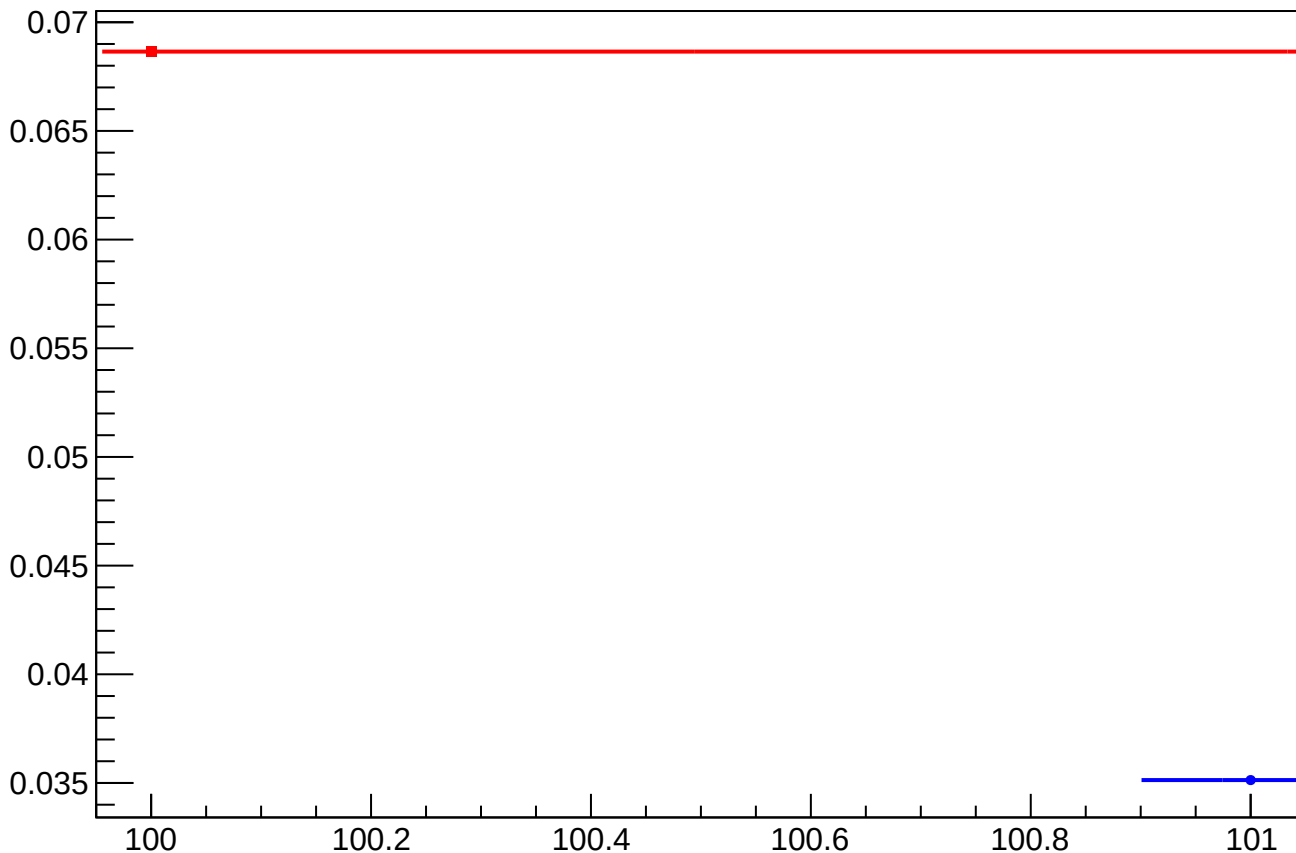
Right:  $-0.630 \pm 0.000$   $\chi^2/\text{NDF}: 5761.1/1$

In:  $-0.629 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.630 \pm 0.000$   $\chi^2/\text{NDF}: 5761.1/1$

# yield\_bpm4acX\_rms vs Slug, Sign Corrected



Right In: 0.035+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.069+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

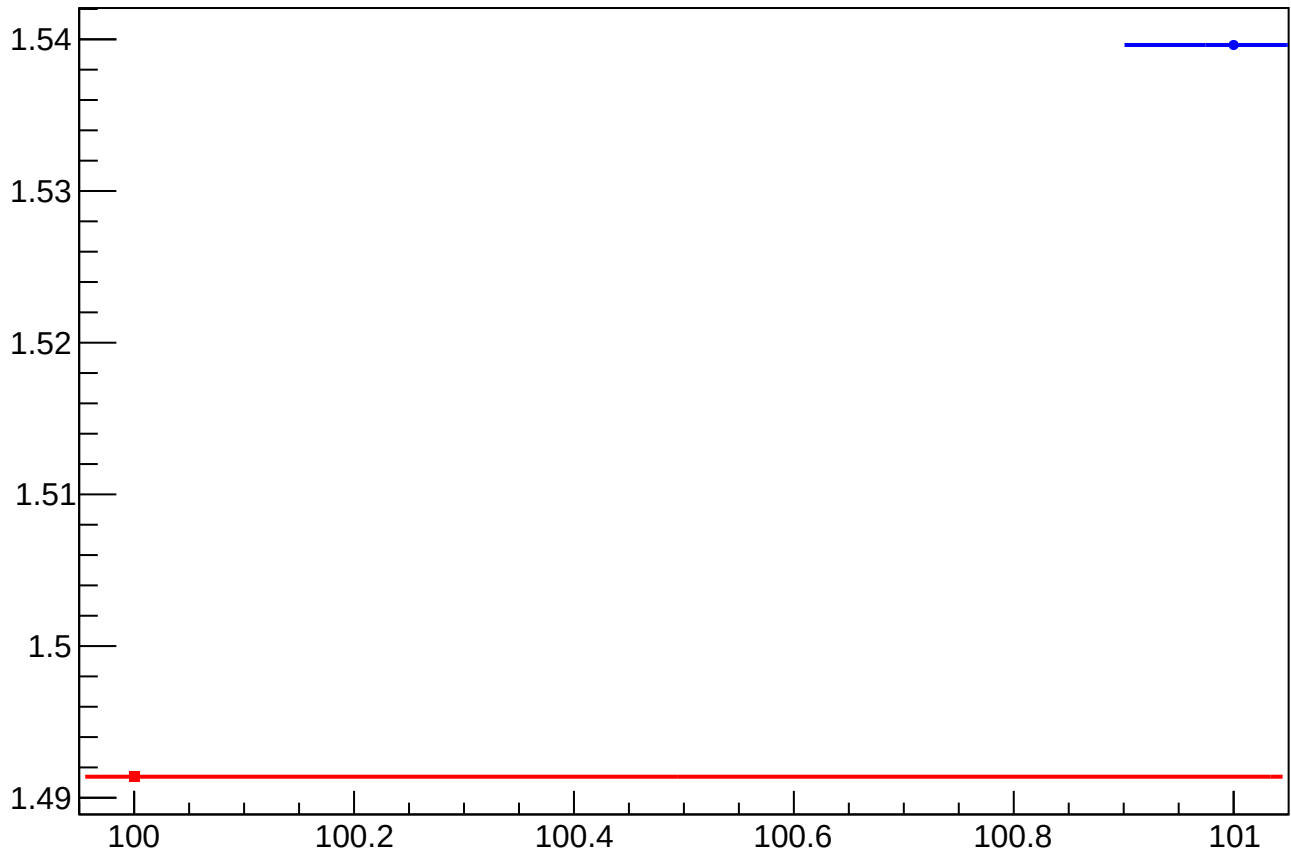
Right: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 33397.8/1

In: 0.035+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 33397.8/1

# yield\_bpm4acY\_mean vs Slug, Sign Corrected



Right In: 1.540 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.491 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

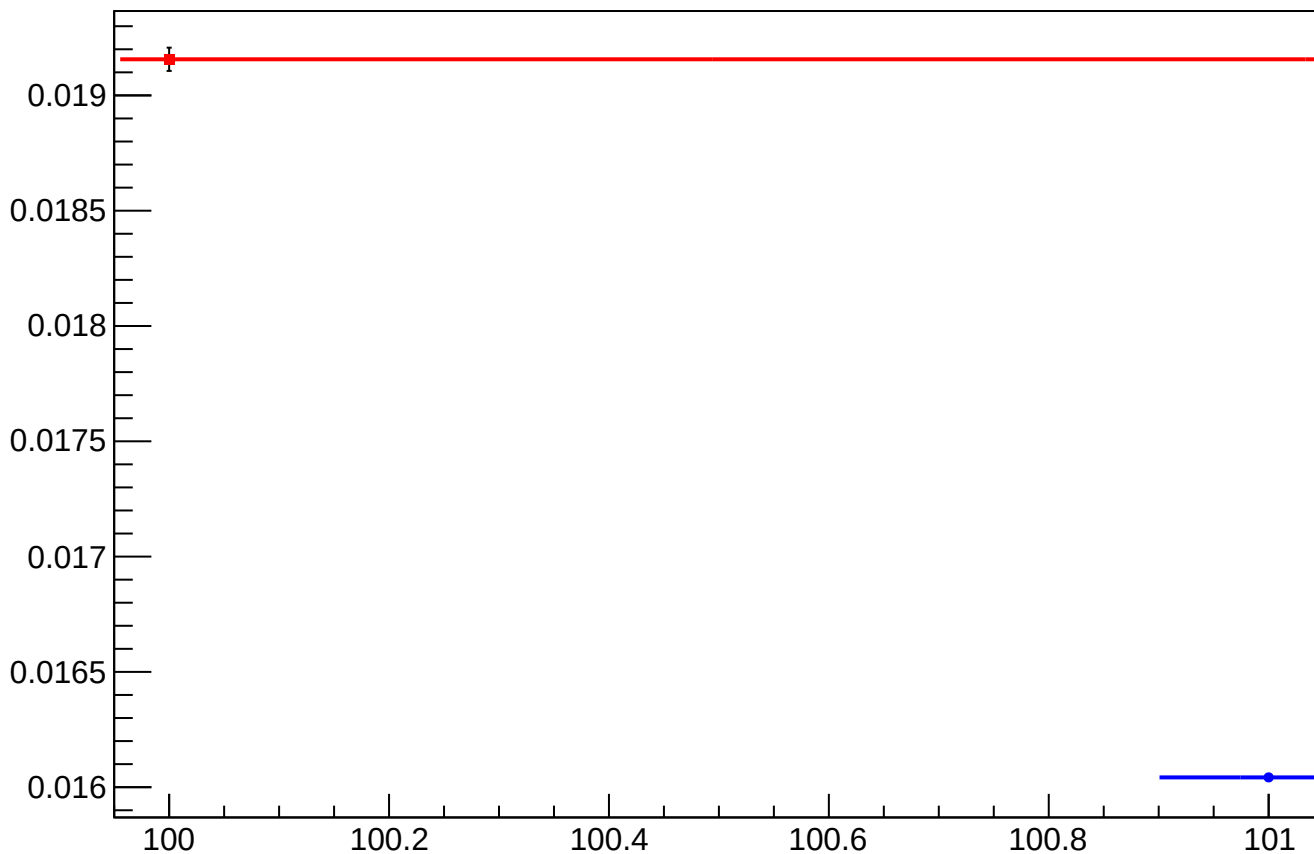
Right: 1.536 $\pm$ 0.000  $\chi^2$ /NDF: 421858.2/1

In: 1.540 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.536 $\pm$ 0.000  $\chi^2$ /NDF: 421858.2/1

# yield\_bpm4acY\_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

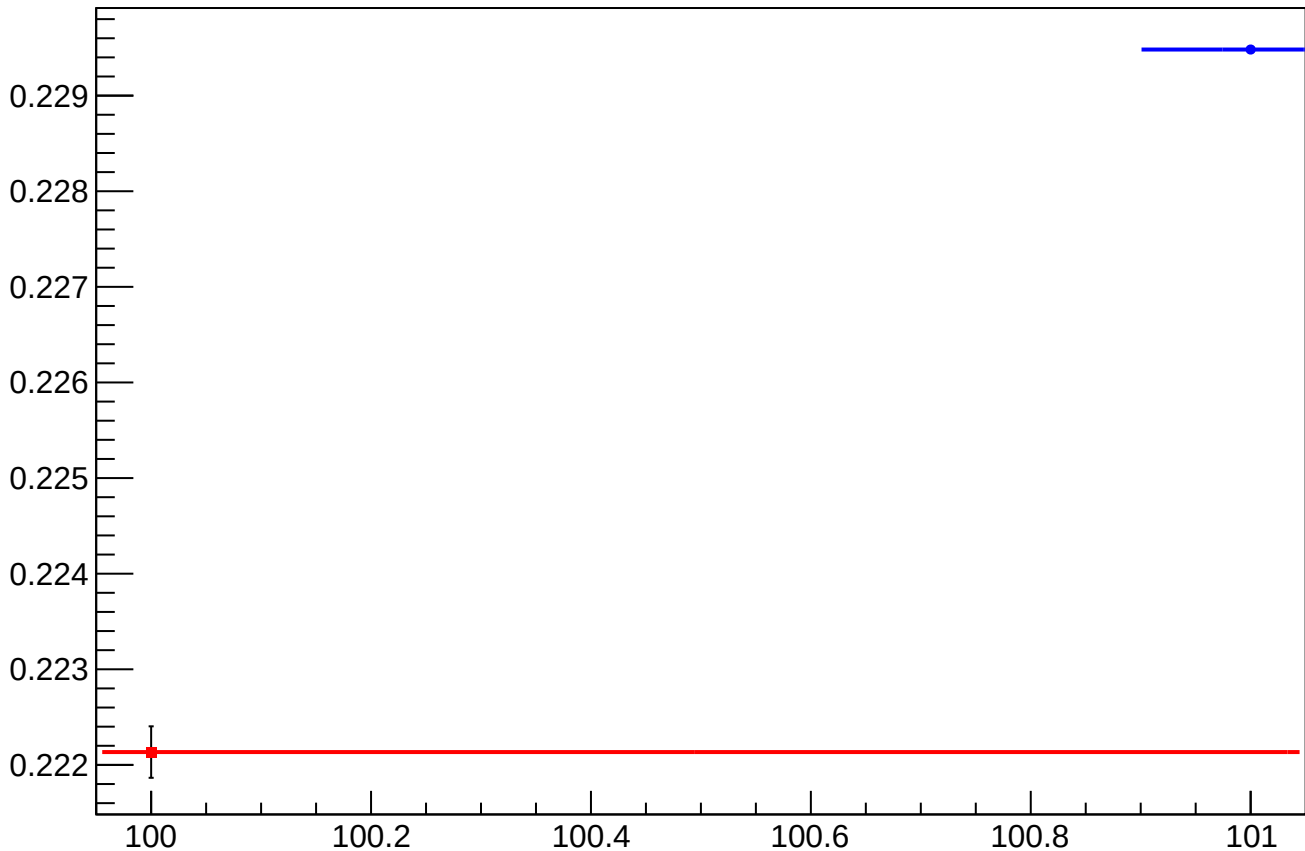
Right: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 3516.0/1

In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 3516.0/1

# yield\_bpm4ecX\_mean vs Slug, Sign Corrected



Right In: 0.229+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.222+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

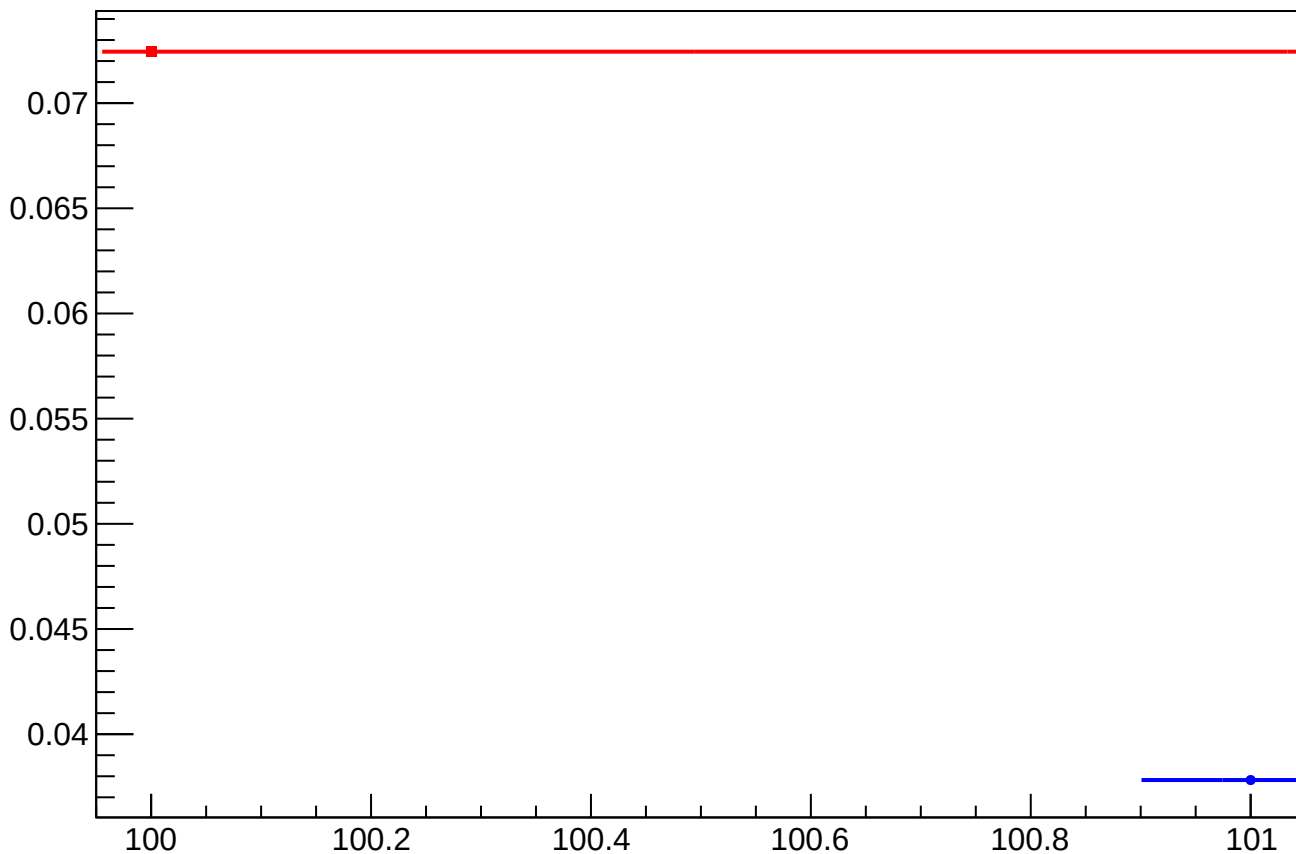
Right: 0.229+/-0.000  $\chi^2/\text{NDF}$ : 719.5/1

In: 0.229+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.229+/-0.000  $\chi^2/\text{NDF}$ : 719.5/1

# yield\_bpm4ecX\_rms vs Slug, Sign Corrected



Right In: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.072+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 31954.4/1

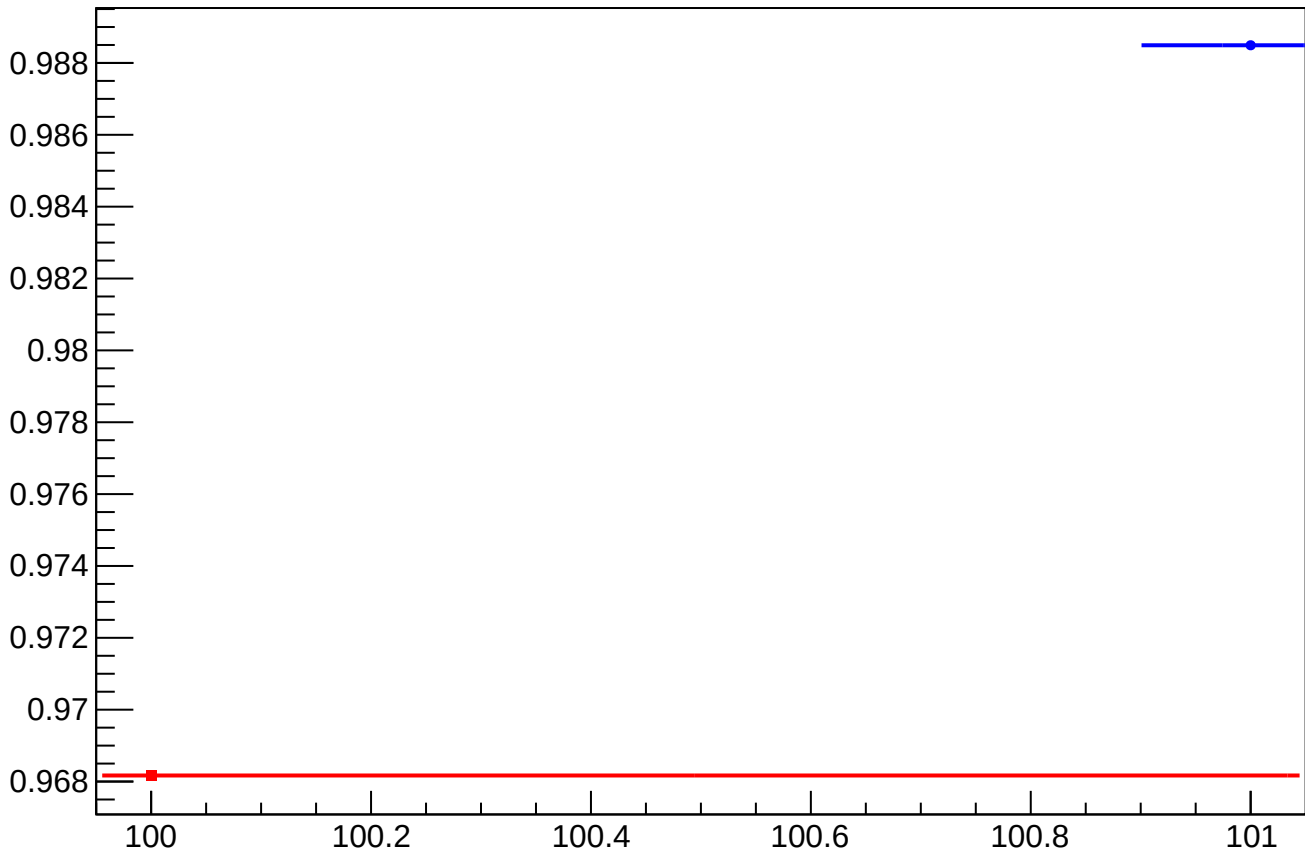
In: 0.038+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 31954.4/1



# yield\_bpm4ecY\_mean vs Slug, Sign Corrected



Right In: 0.988+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.968+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

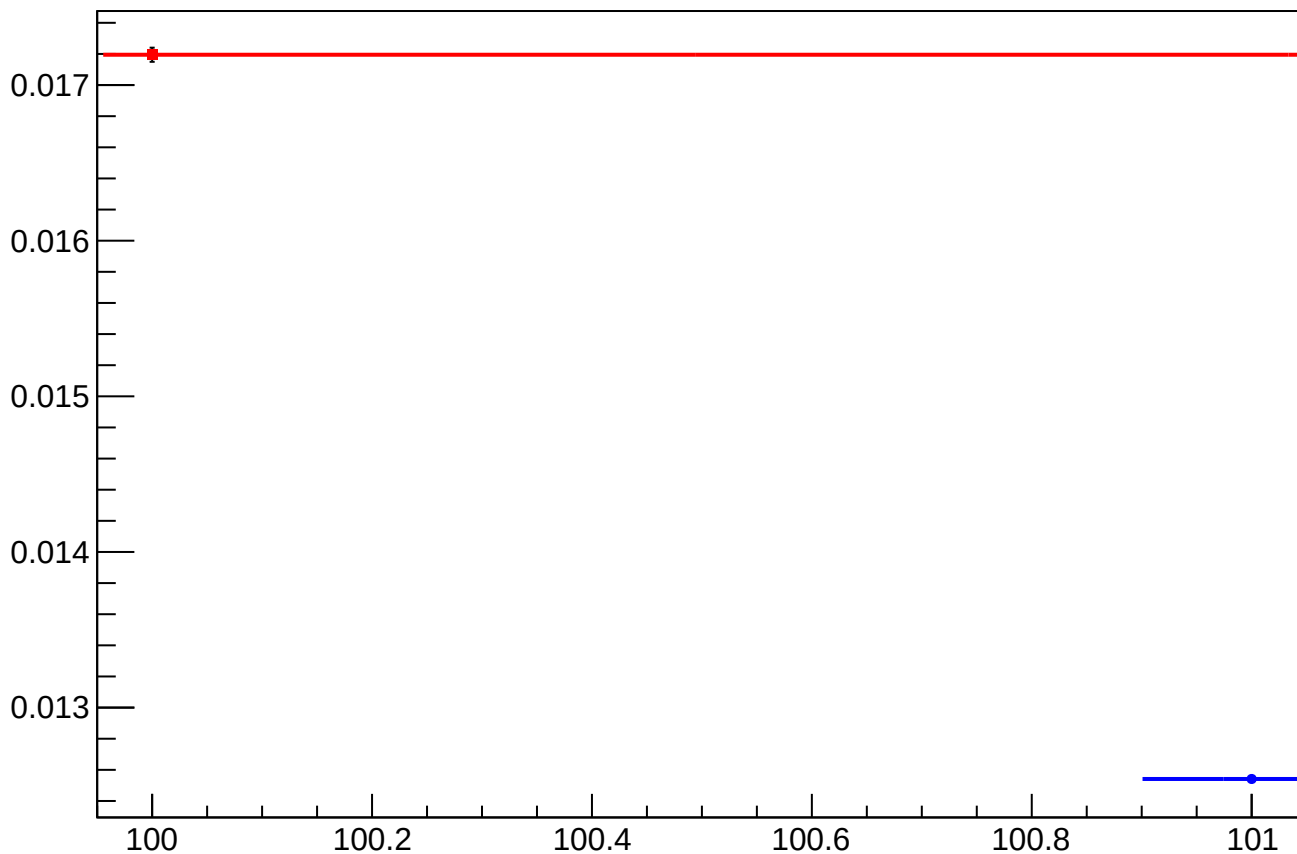
Right: 0.987+/-0.000  $\chi^2/\text{NDF}$ : 93818.5/1

In: 0.988+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.987+/-0.000  $\chi^2/\text{NDF}$ : 93818.5/1

# yield\_bpm4ecY\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

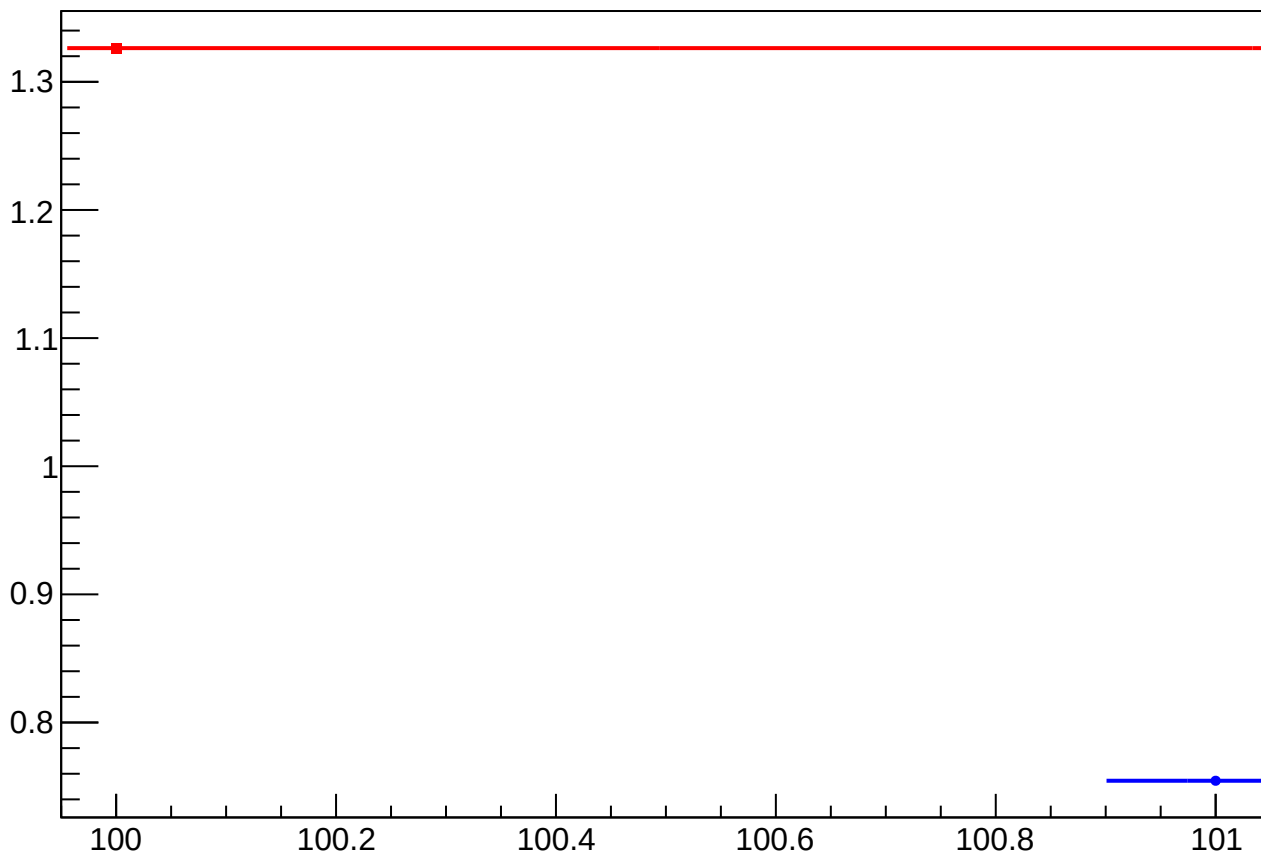
Right: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 9837.1/1

In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 9837.1/1

# yield\_bpm1X\_mean vs Slug, Sign Corrected



Right In: 0.755+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.326+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

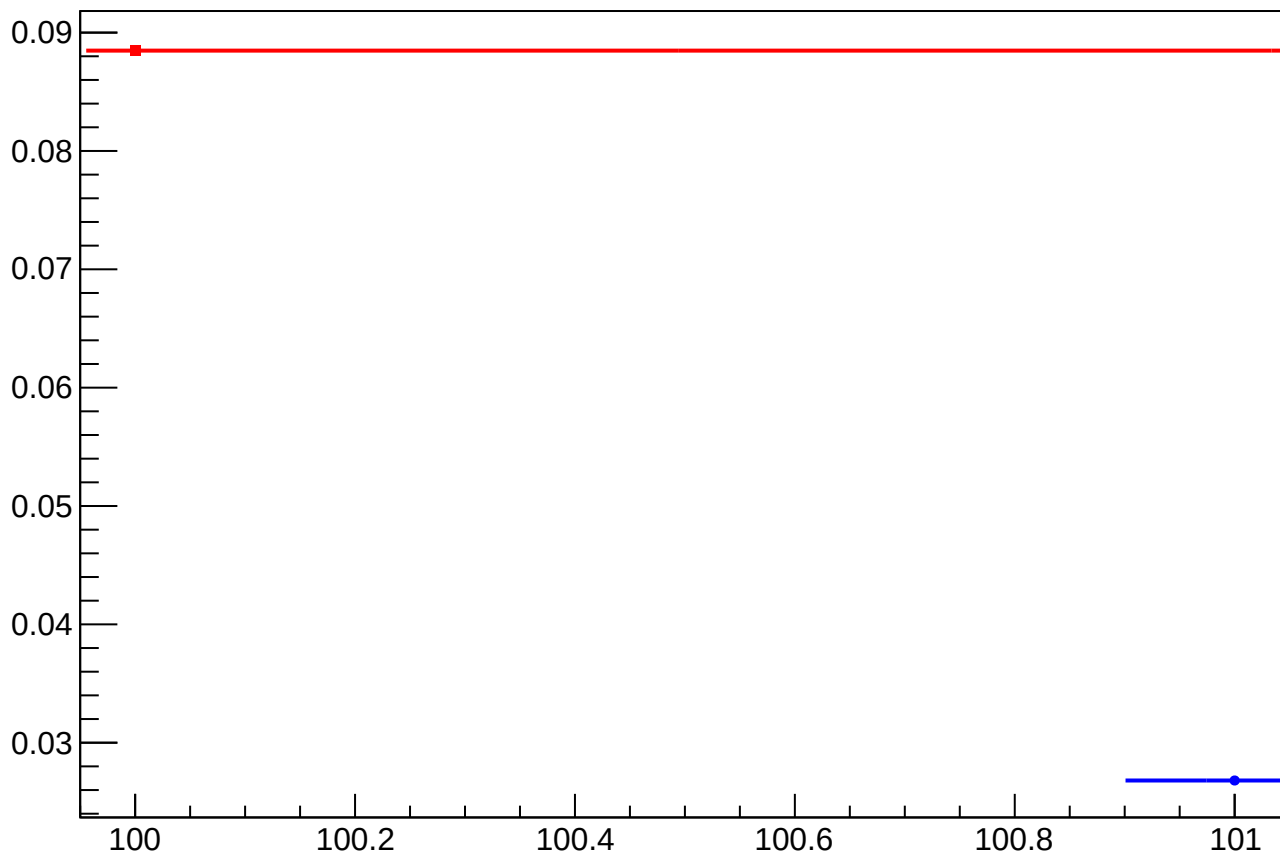
Right: 0.760+/-0.000  $\chi^2/\text{NDF}$ : 2607603.7/1

In: 0.755+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.760+/-0.000  $\chi^2/\text{NDF}$ : 2607603.7/1

# yield\_bpm1X\_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.088+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

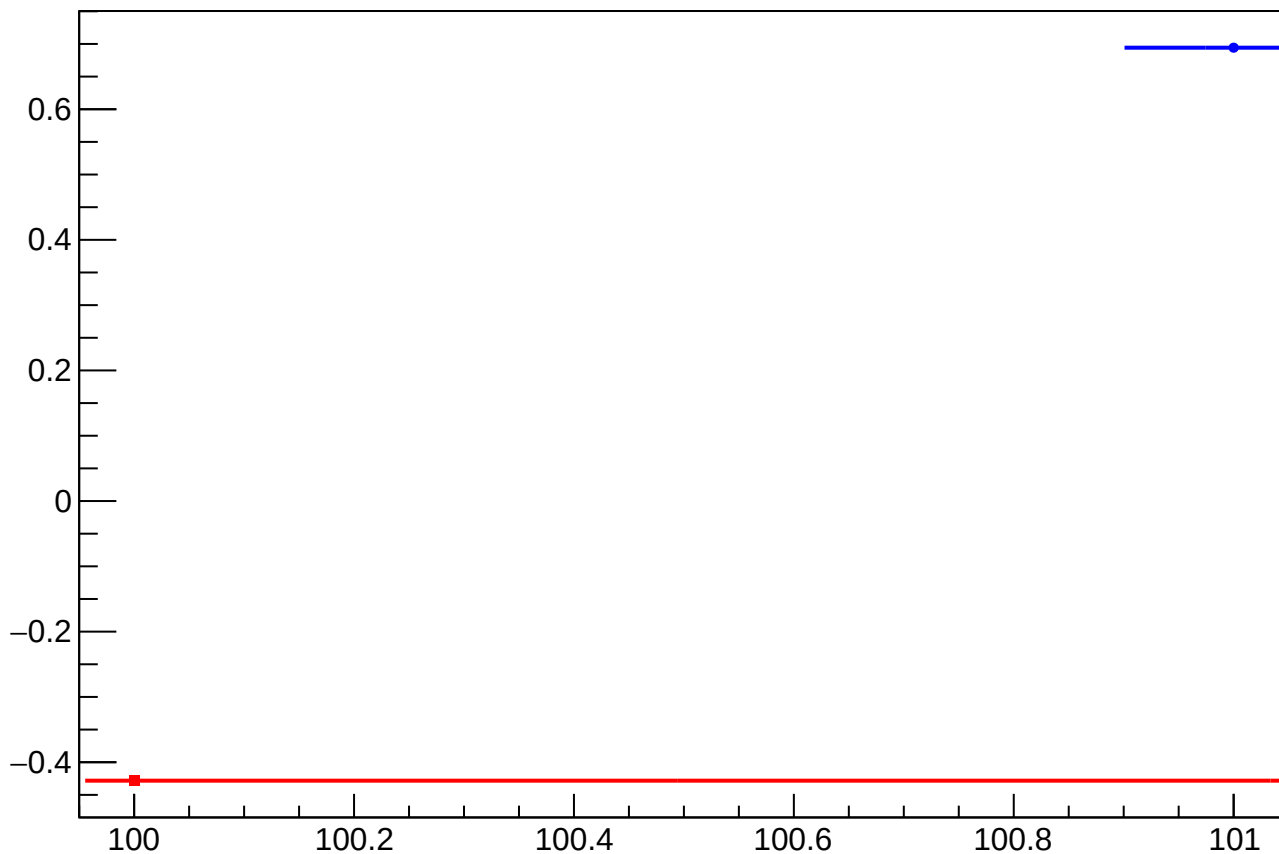
Right: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 60671.4/1

In: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 60671.4/1

yield\_bpm1Y\_mean vs Slug, Sign Corrected



Right In: 0.694+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.428+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

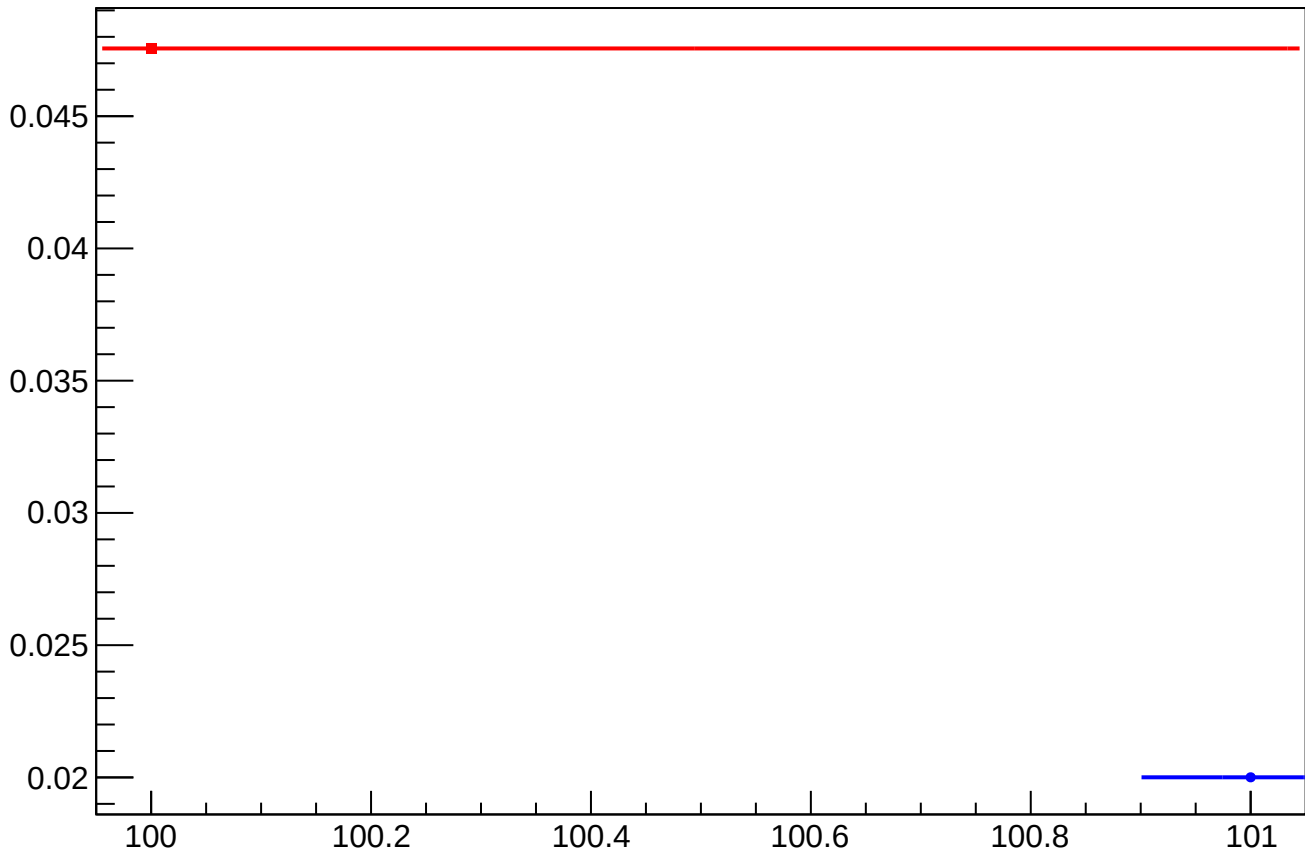
Right: 0.676+/-0.000  $\chi^2/\text{NDF}$ : 30341237.8/1

In: 0.694+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.676+/-0.000  $\chi^2/\text{NDF}$ : 30341237.8/1

# yield\_bpm1Y\_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.048+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

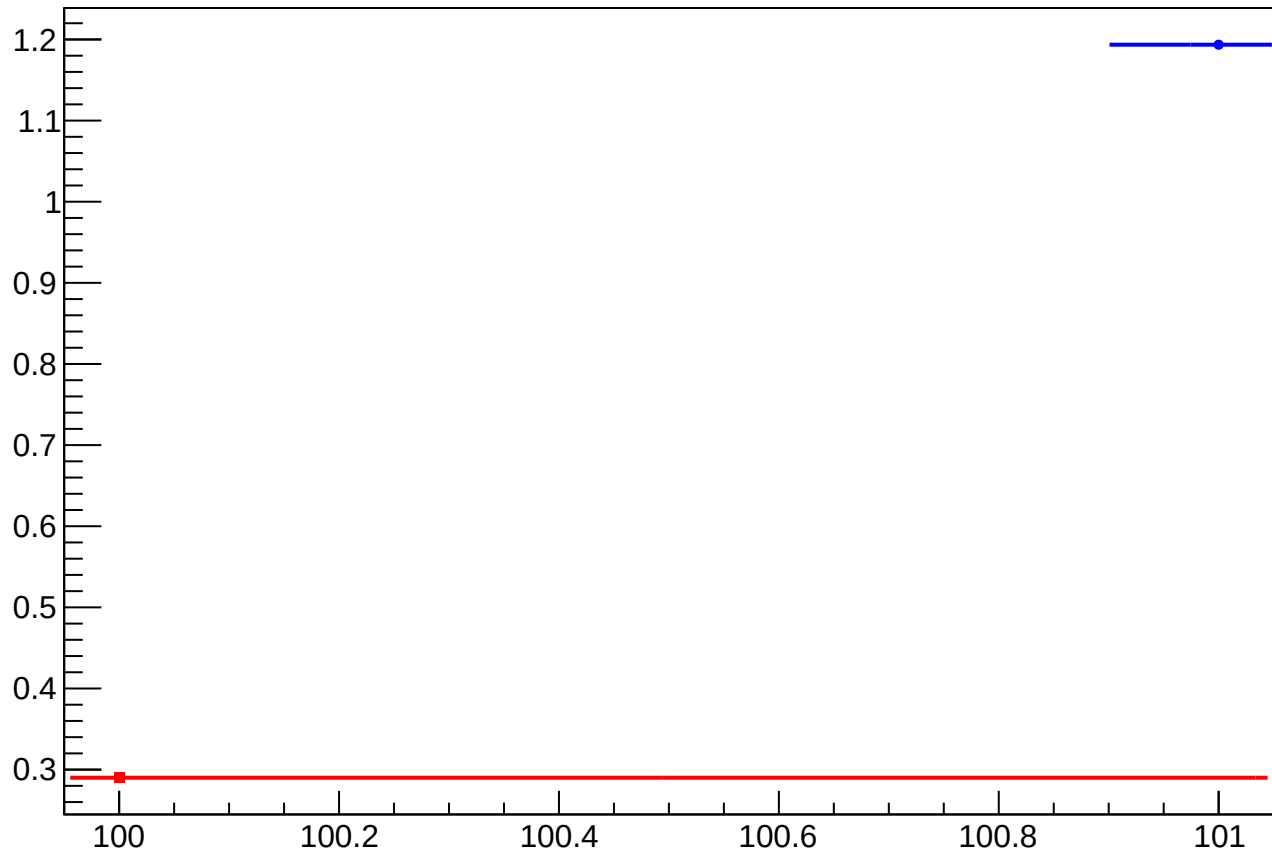
Right: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 36571.8/1

In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 36571.8/1

# yield\_bpm11X\_mean vs Slug, Sign Corrected



Right In: 1.194+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.290+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

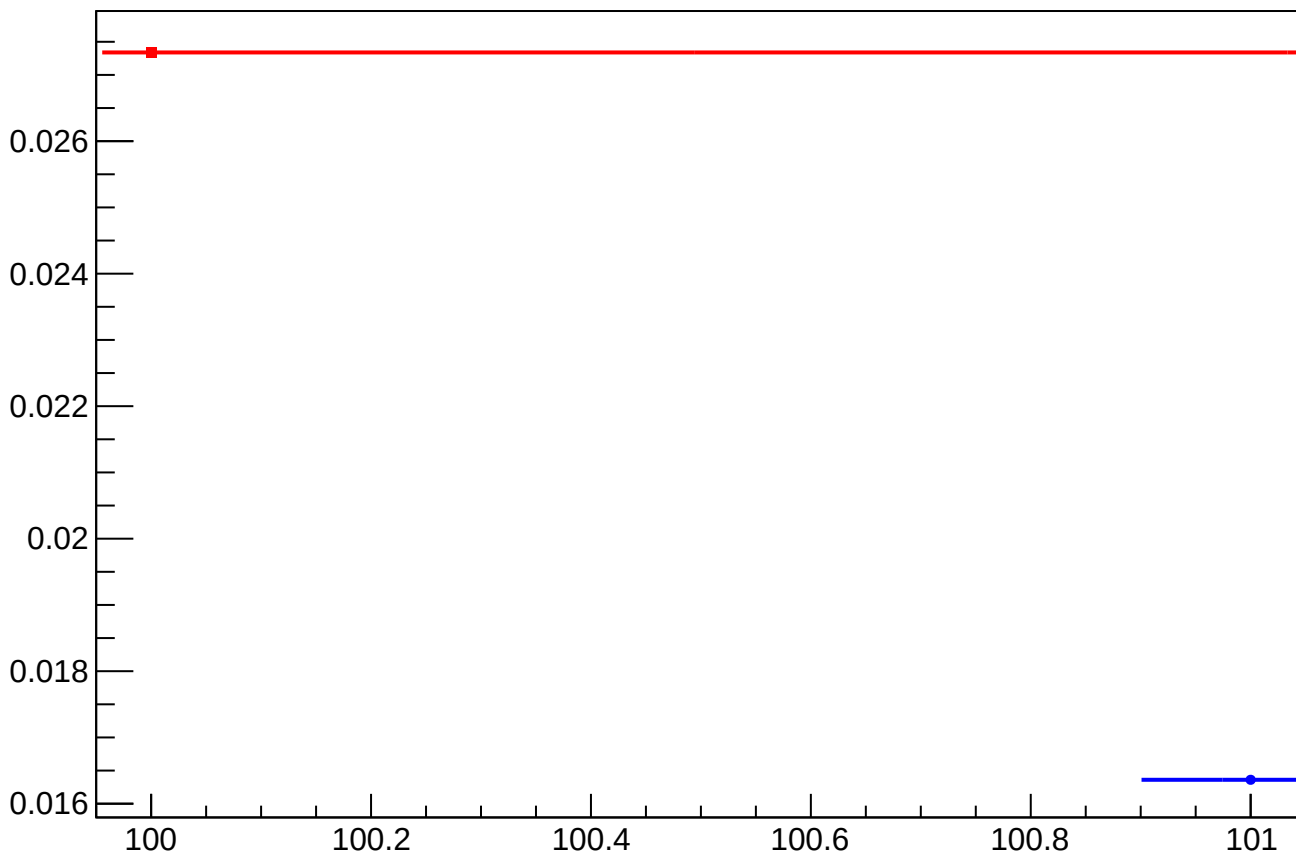
Right: 1.155+/-0.000  $\chi^2/\text{NDF}$ : 75252010.9/1

In: 1.194+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.155+/-0.000  $\chi^2/\text{NDF}$ : 75252010.9/1

# yield\_bpm11X\_rms vs Slug, Sign Corrected

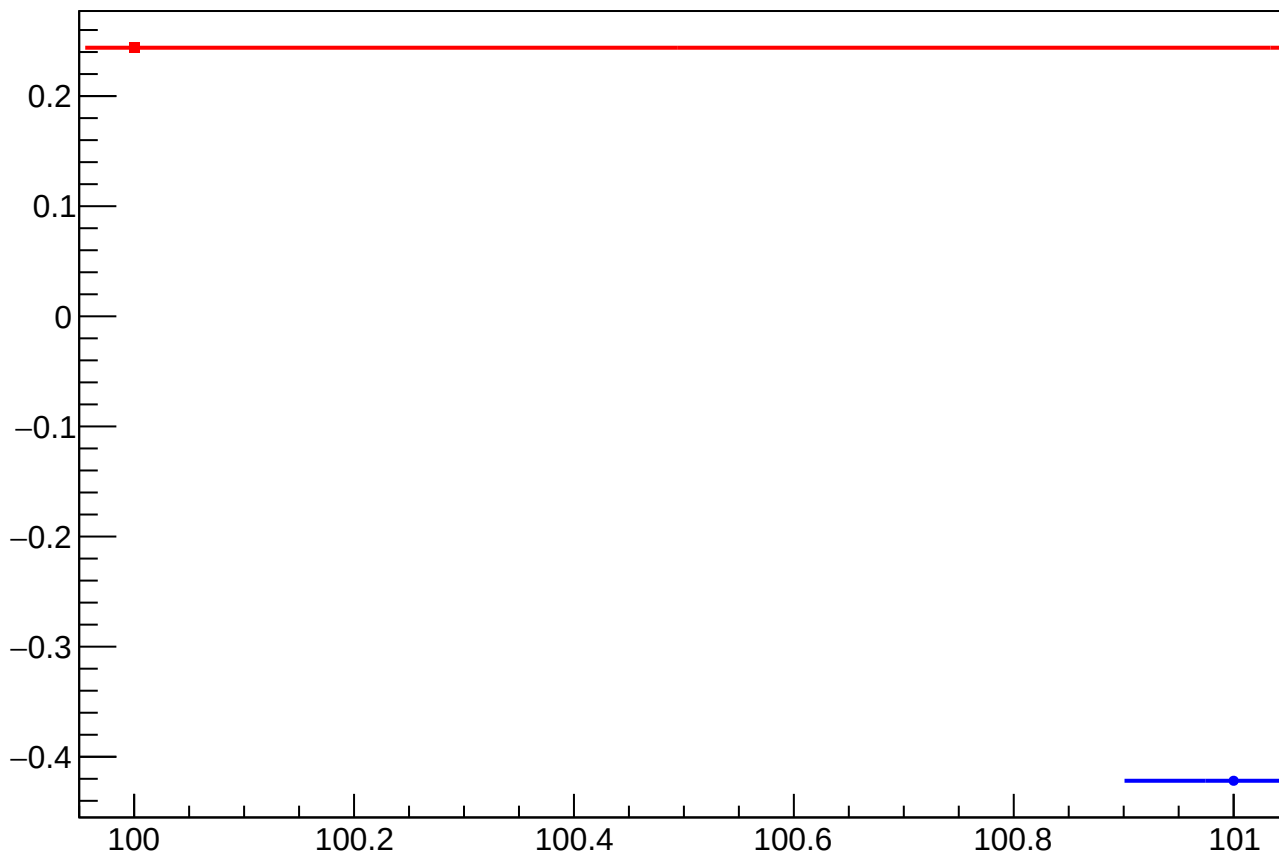


Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 22218.9/1  
In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 22218.9/1



yield\_bpm11Y\_mean vs Slug, Sign Corrected



Right In: -0.422+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.244+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

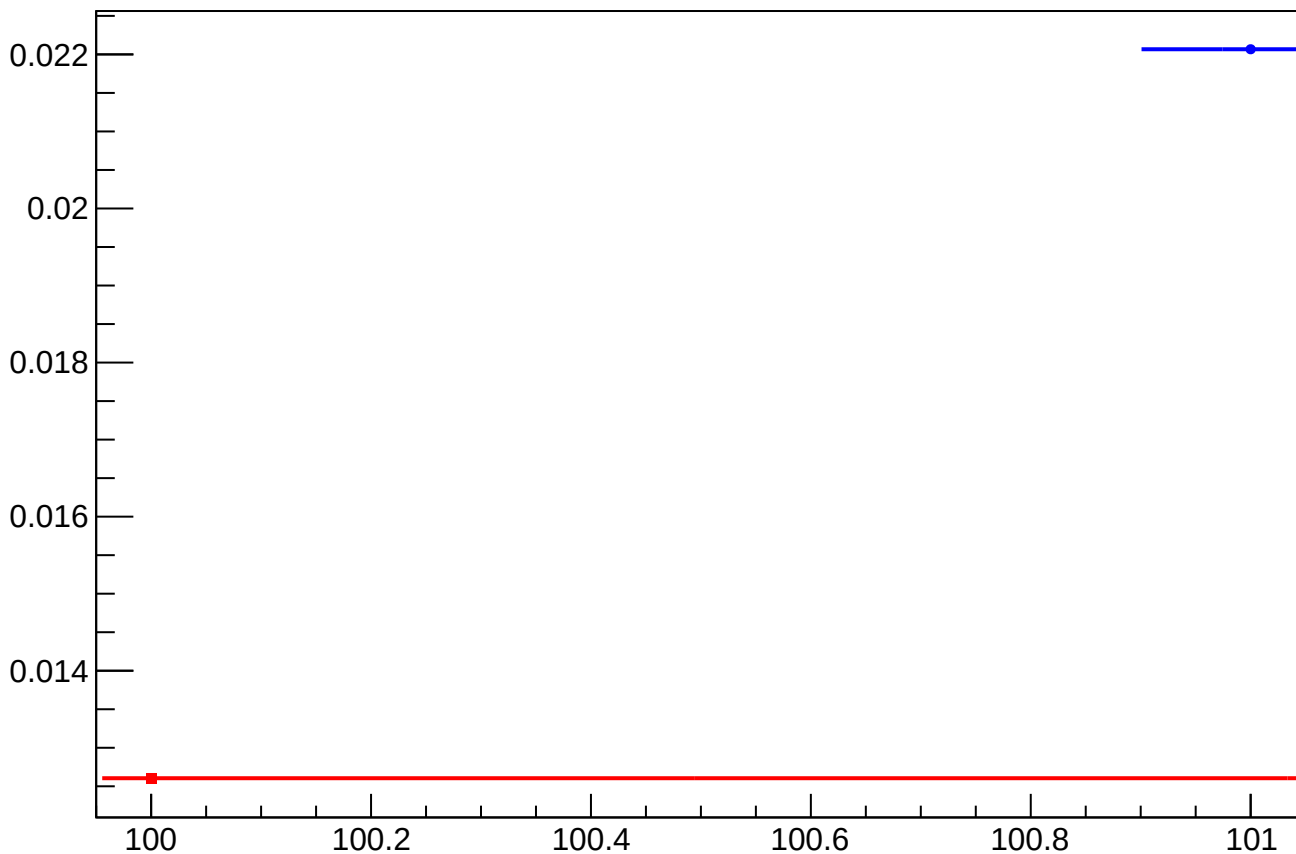
Right: -0.240+/-0.000  $\chi^2/\text{NDF}$ : 143884726.7/1

In: -0.422+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.240+/-0.000  $\chi^2/\text{NDF}$ : 143884726.7/1

# yield\_bpm11Y\_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

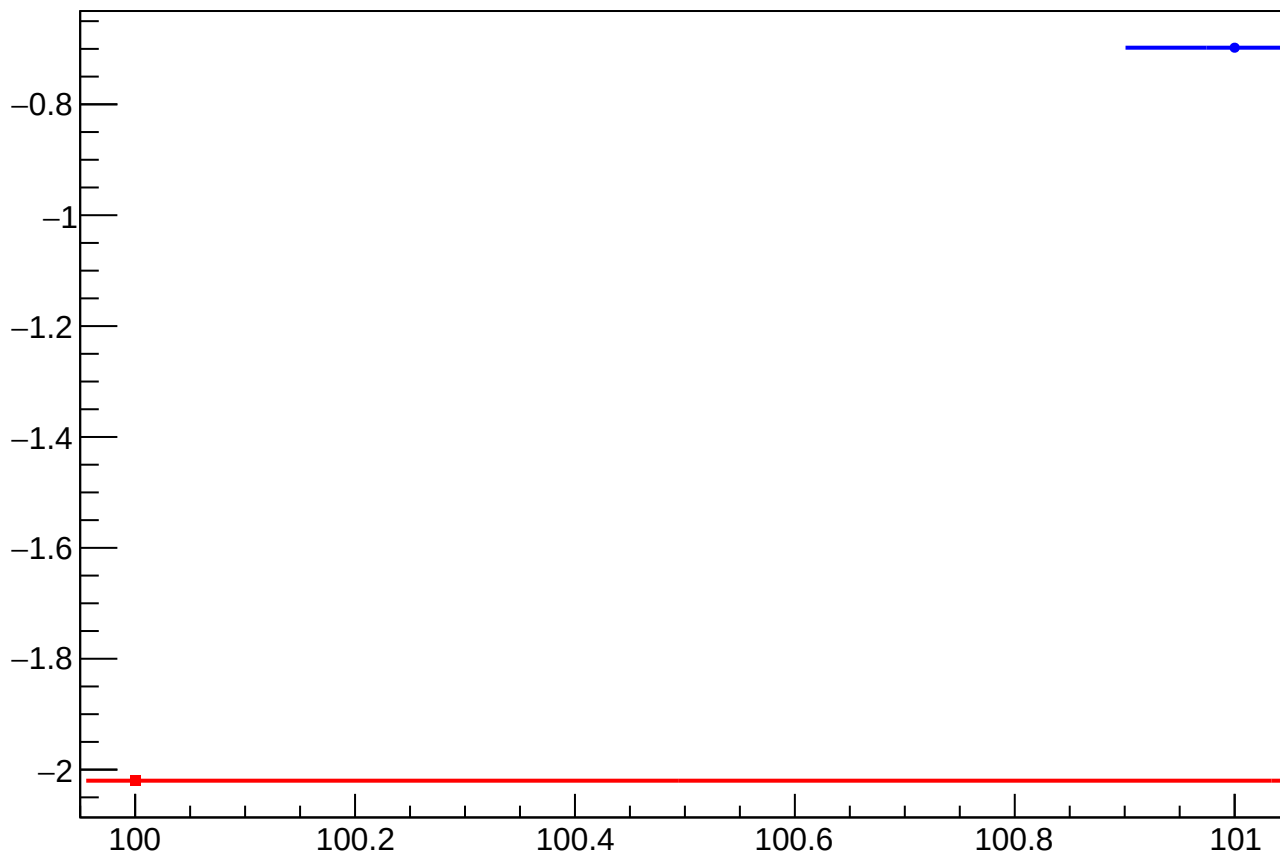
Right: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 58139.0/1

In: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 58139.0/1

# yield\_bpm12X\_mean vs Slug, Sign Corrected



Right In: -0.698 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.020 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

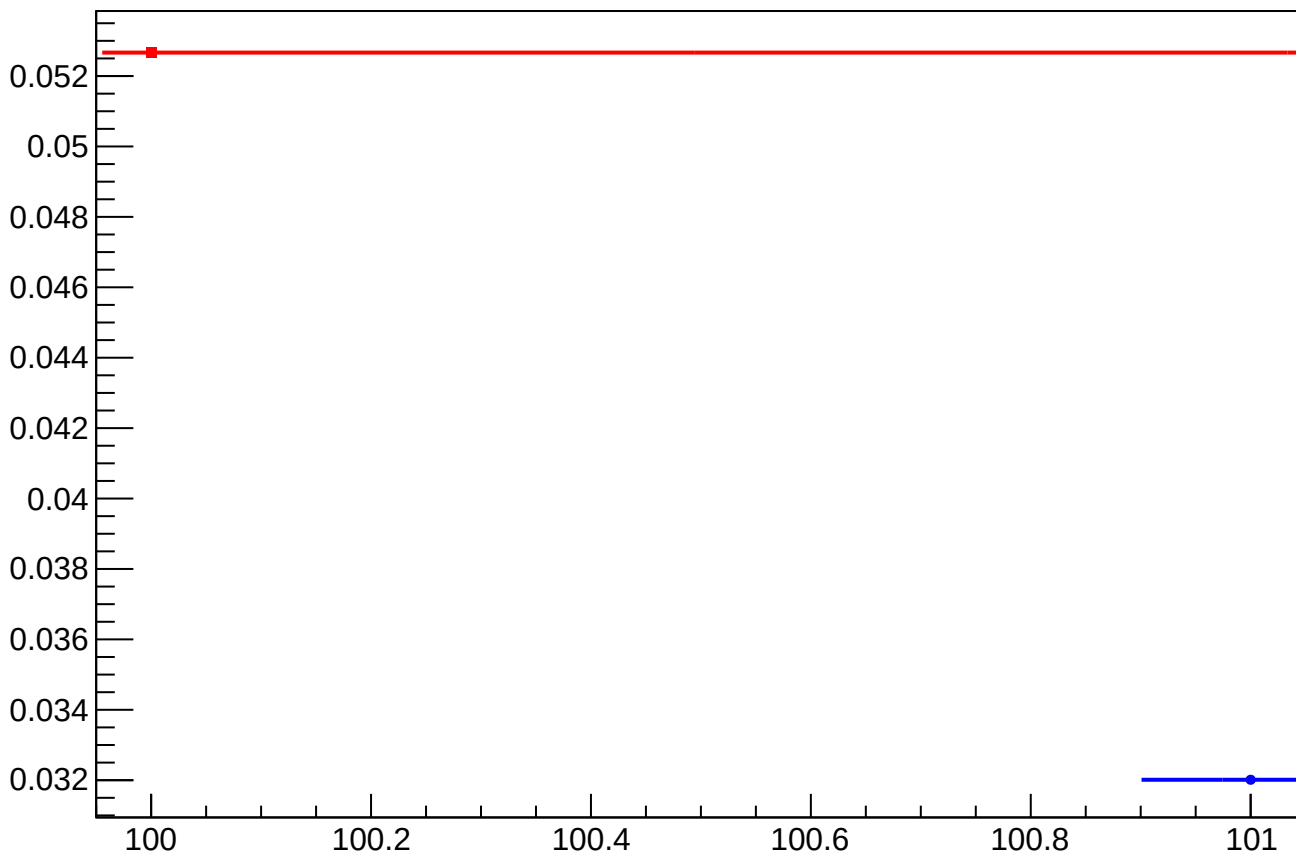
Right: -0.754 $\pm$ 0.000  $\chi^2$ /NDF: 42859062.3/1

In: -0.698 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.754 $\pm$ 0.000  $\chi^2$ /NDF: 42859062.3/1

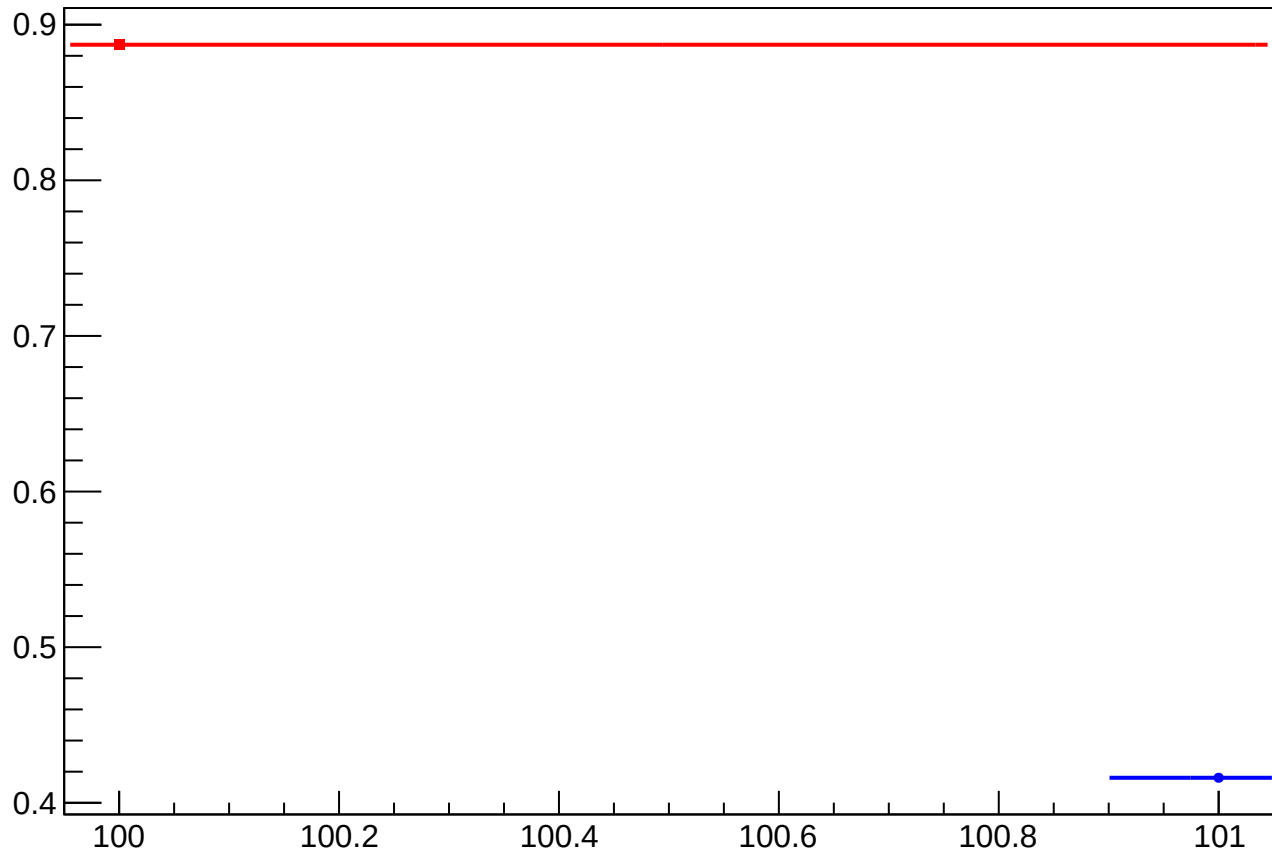
# yield\_bpm12X\_rms vs Slug, Sign Corrected



Right In: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.053+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 20918.9/1  
In: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 20918.9/1

# yield\_bpm12Y\_mean vs Slug, Sign Corrected



Right In: 0.416+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.887+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

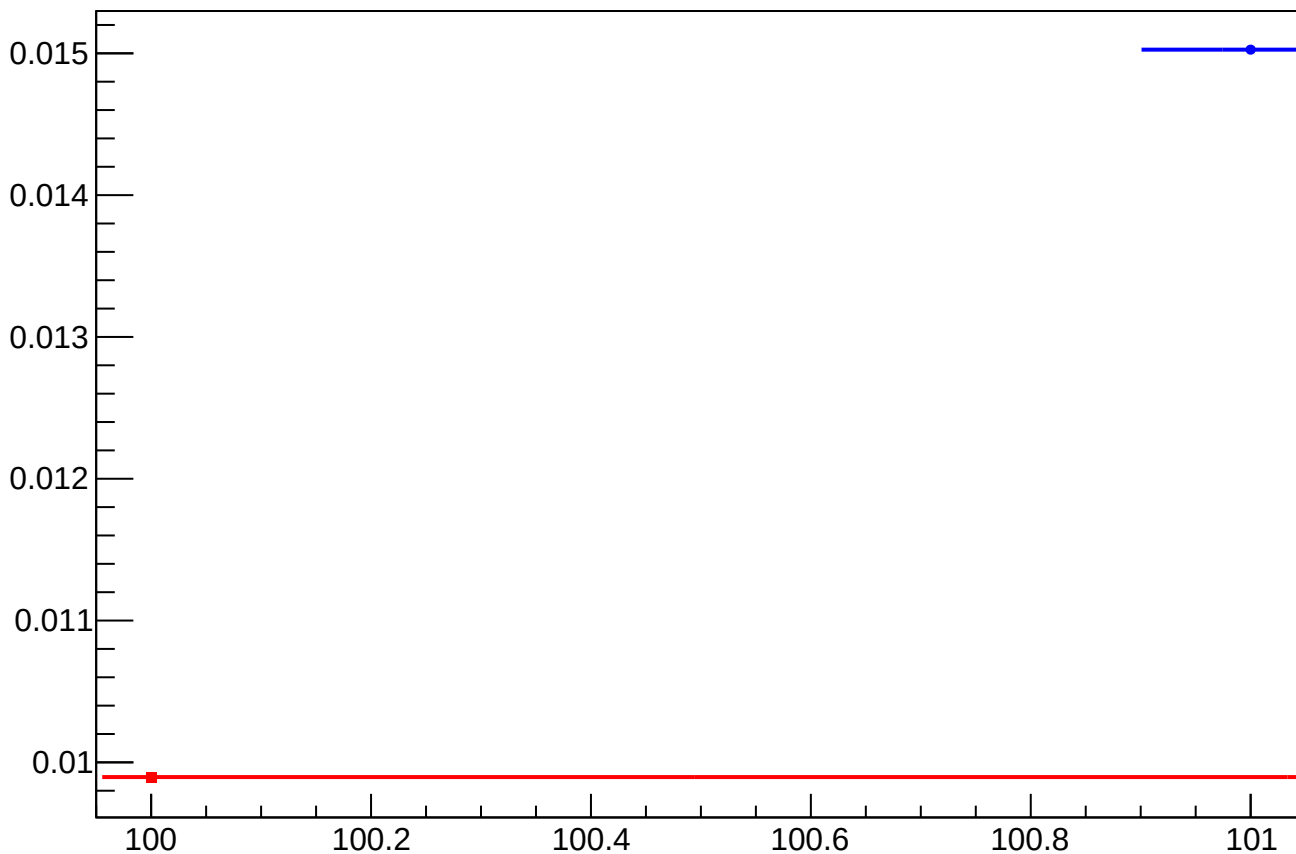
Right: 0.520+/-0.000  $\chi^2/\text{NDF}$ : 125347881.2/1

In: 0.416+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.520+/-0.000  $\chi^2/\text{NDF}$ : 125347881.2/1

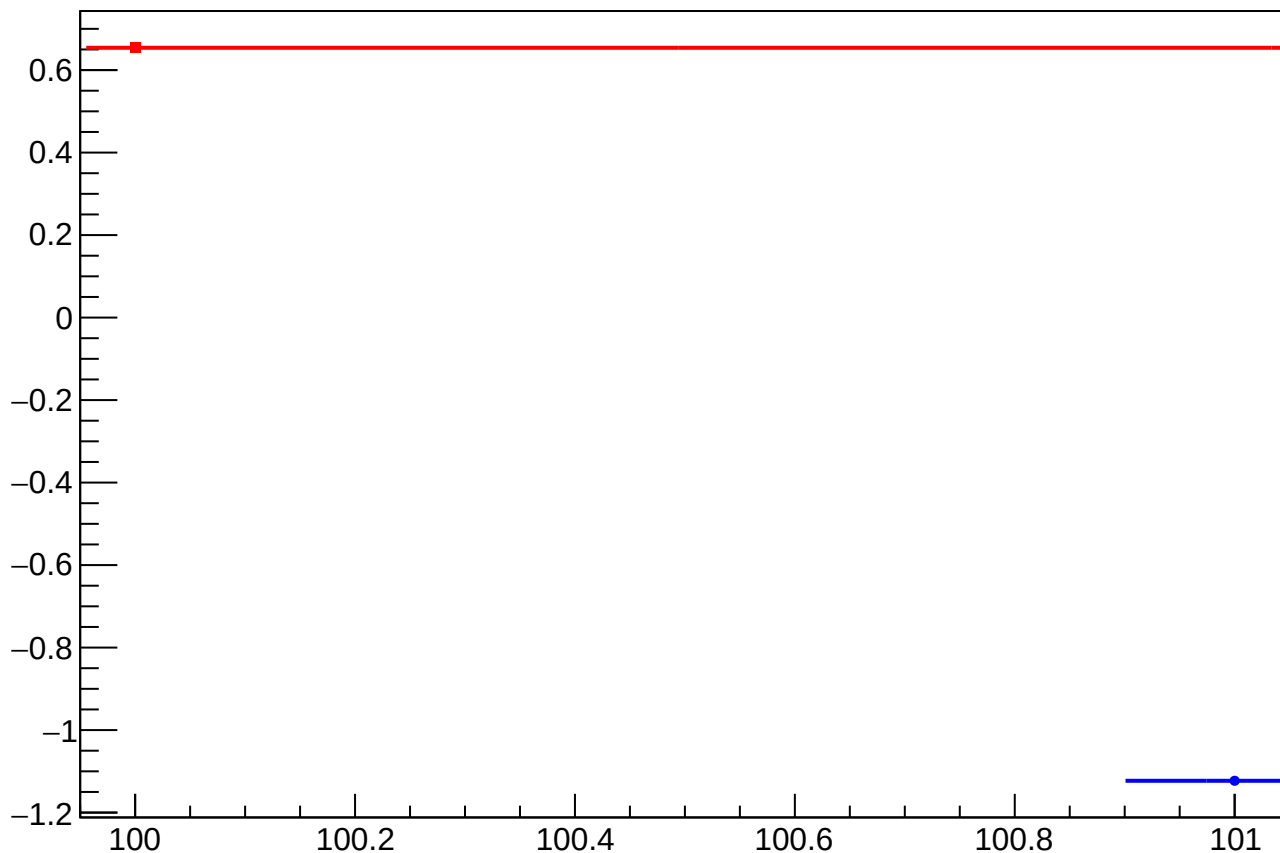
# yield\_bpm12Y\_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 29732.3/1  
In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 29732.3/1

# yield\_bpm16X\_mean vs Slug, Sign Corrected



Right In: -1.123+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.654+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

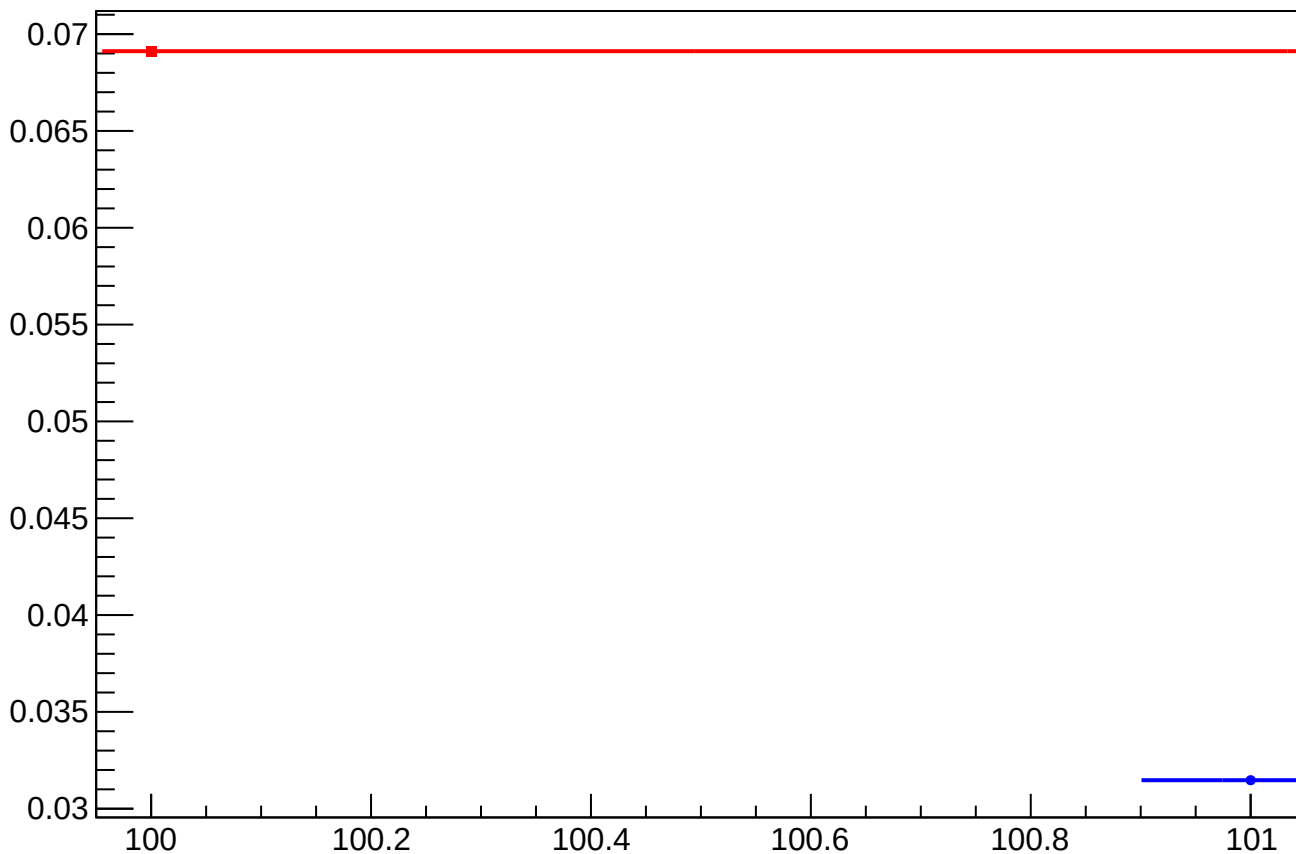
Right: -1.075+/-0.000  $\chi^2/\text{NDF}$ : 46383267.1/1

In: -1.123+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.075+/-0.000  $\chi^2/\text{NDF}$ : 46383267.1/1

# yield\_bpm16X\_rms vs Slug, Sign Corrected

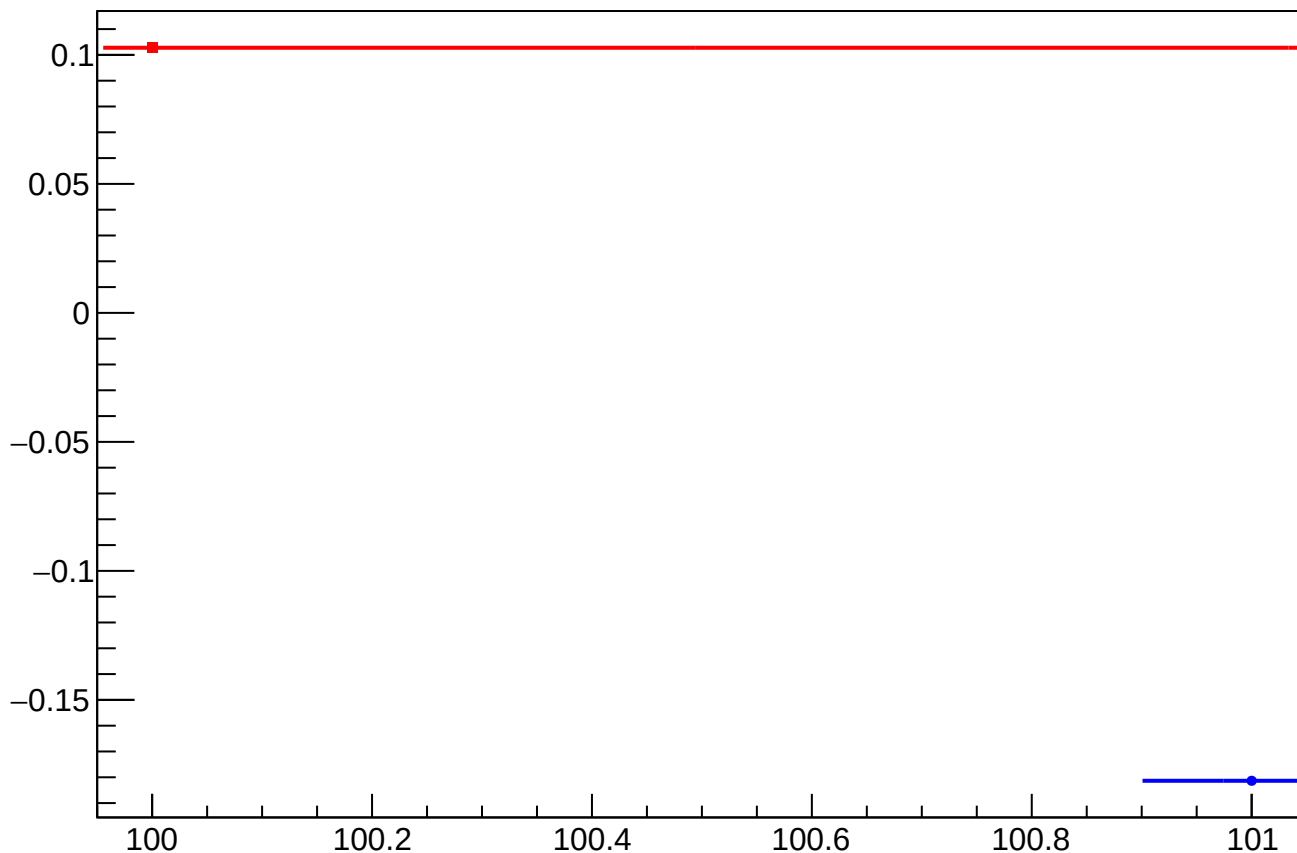


Right In: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.069+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 41635.9/1  
In: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.032+/-0.000  $\chi^2/\text{NDF}$ : 41635.9/1



# yield\_bpm16Y\_mean vs Slug, Sign Corrected



Right In: -0.181+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.103+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

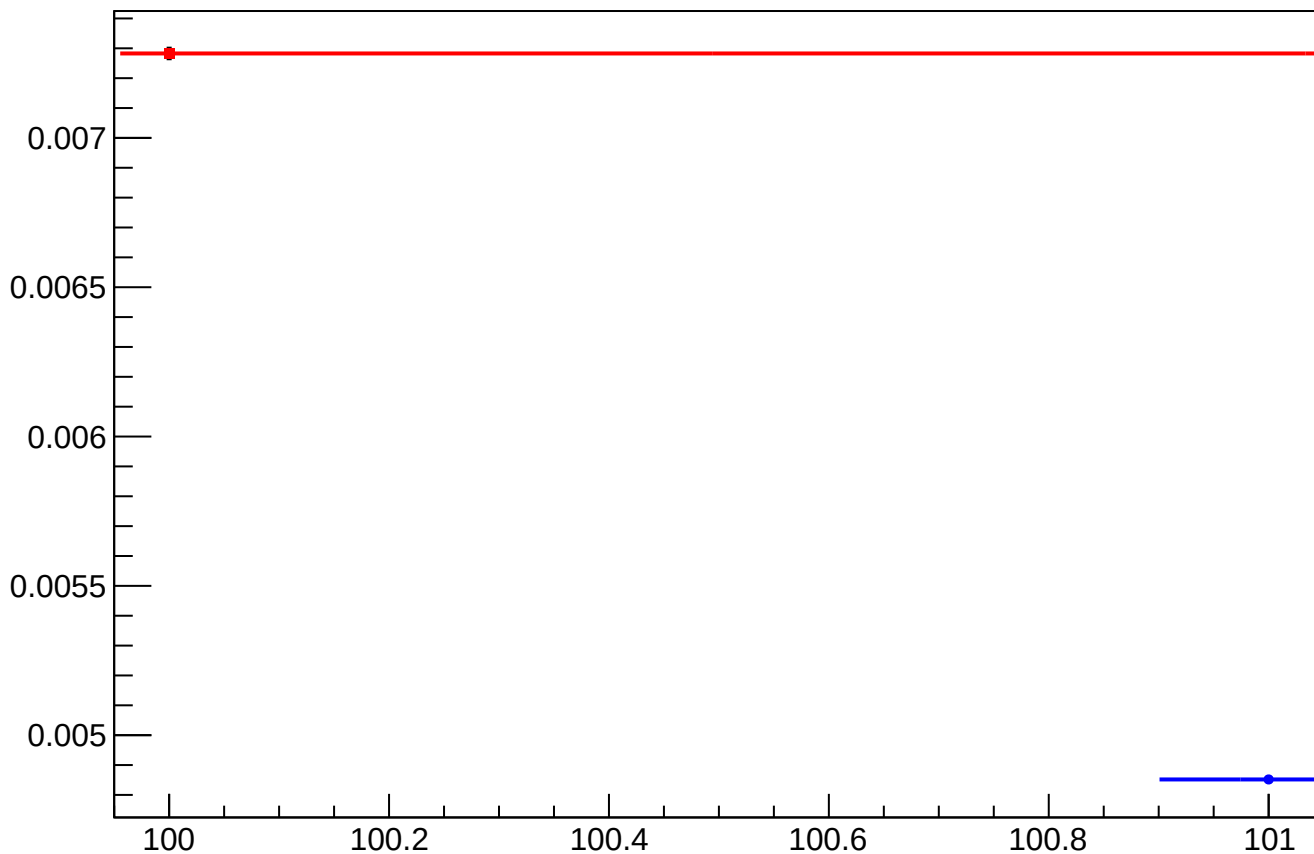
Right: -0.167+/-0.000  $\chi^2/\text{NDF}$ : 101927252.0/1

In: -0.181+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.167+/-0.000  $\chi^2/\text{NDF}$ : 101927252.0/1

# yield\_bpm16Y\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

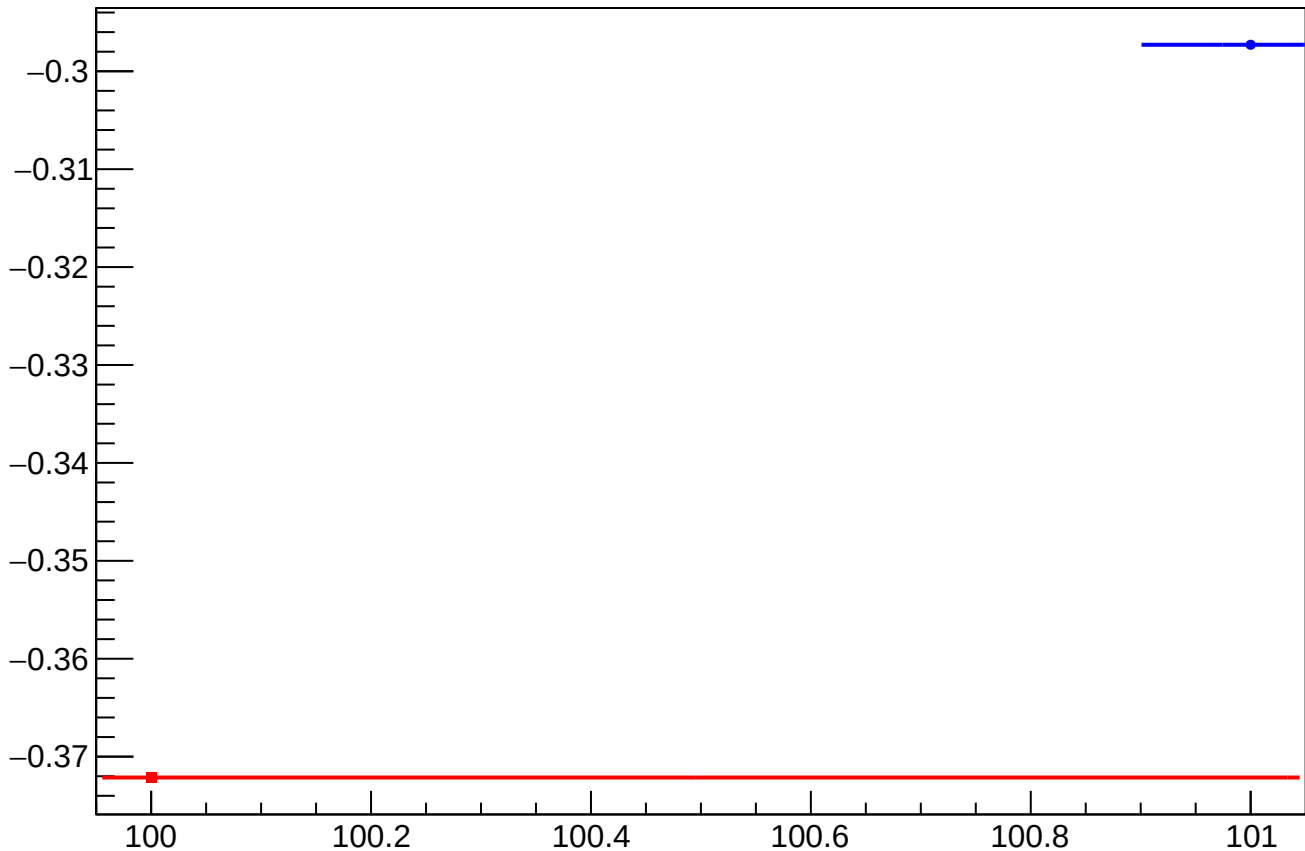
Right: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 14922.7/1

In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 14922.7/1

# yield\_bpm0i02X\_mean vs Slug, Sign Corrected



Right In: -0.297+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.372+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

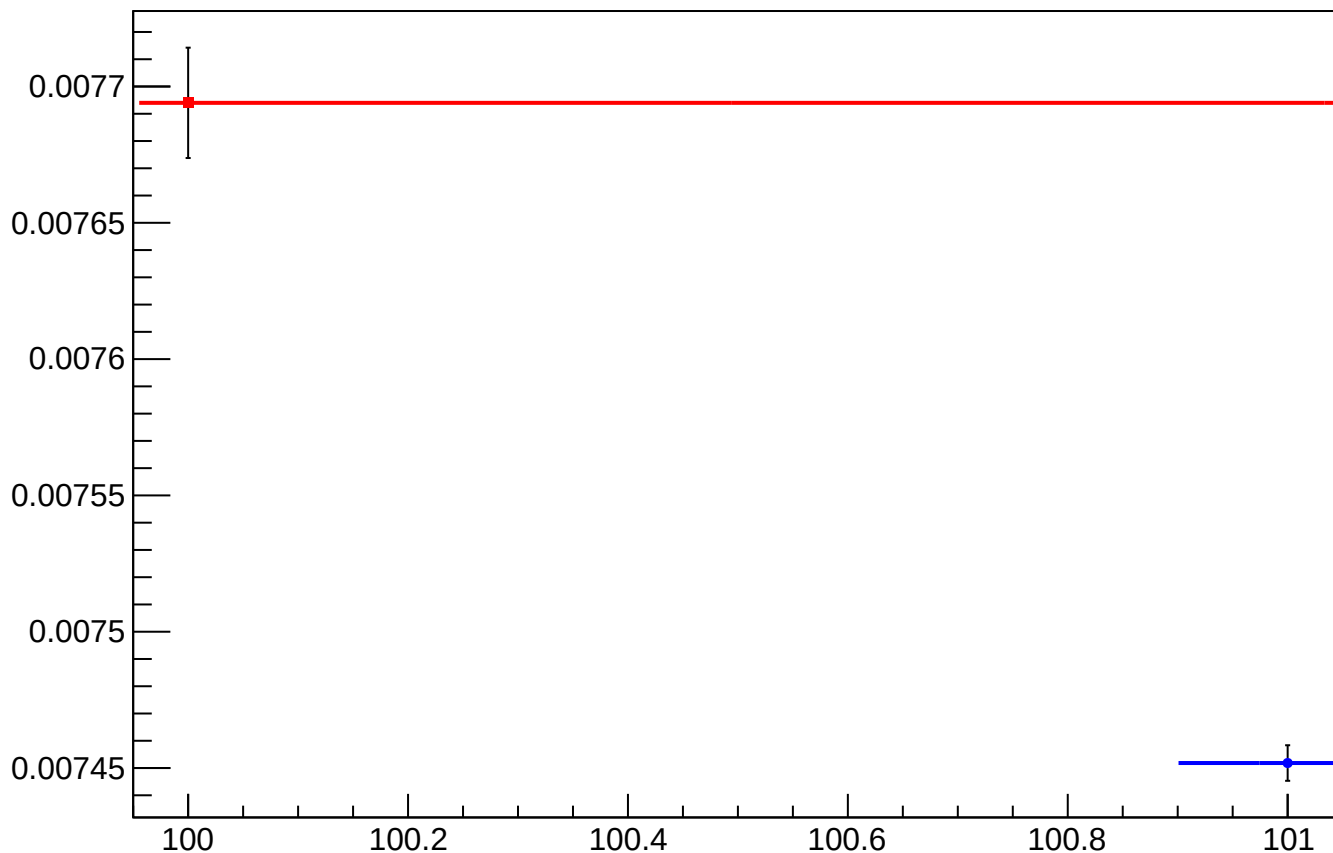
Right: -0.304+/-0.000  $\chi^2/\text{NDF}$ : 6193902.0/1

In: -0.297+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.304+/-0.000  $\chi^2/\text{NDF}$ : 6193902.0/1

# yield\_bpm0i02X\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

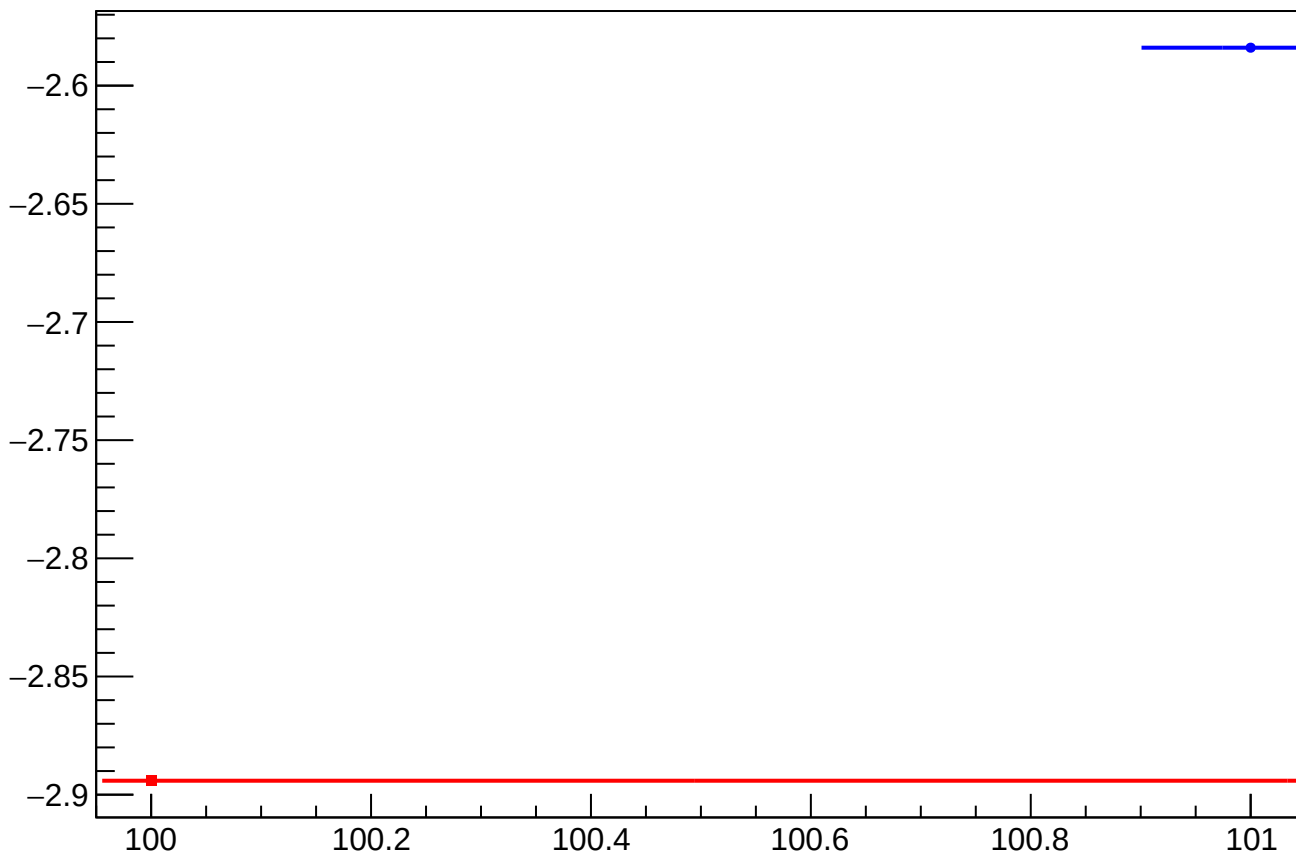
Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 129.7/1

In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 129.7/1

yield\_bpm0i02Y\_mean vs Slug, Sign Corrected



Right In: -2.584+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.894+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

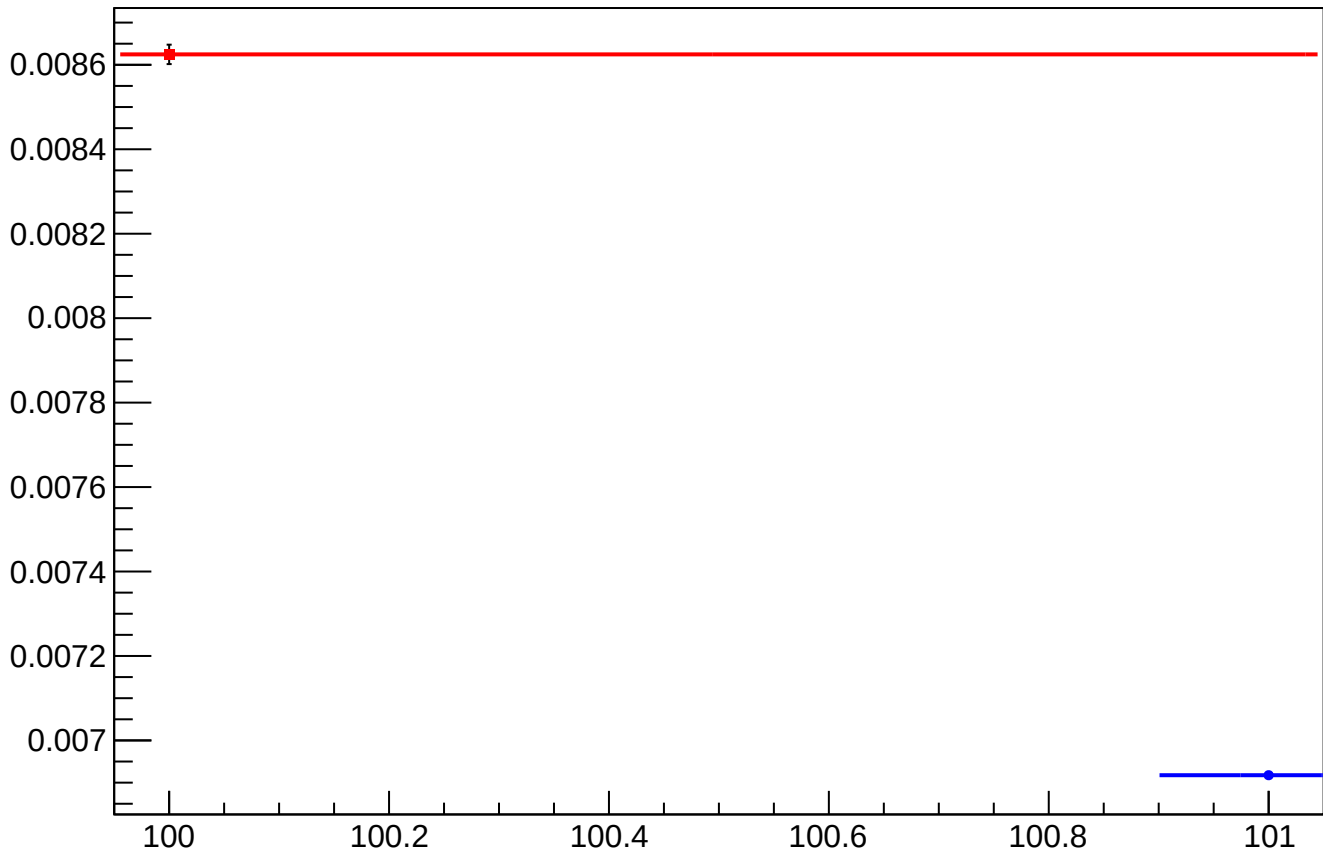
Right: -2.605+/-0.000  $\chi^2/\text{NDF}$ : 84942114.7/1

In: -2.584+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.605+/-0.000  $\chi^2/\text{NDF}$ : 84942114.7/1

# yield\_bpm0i02Y\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

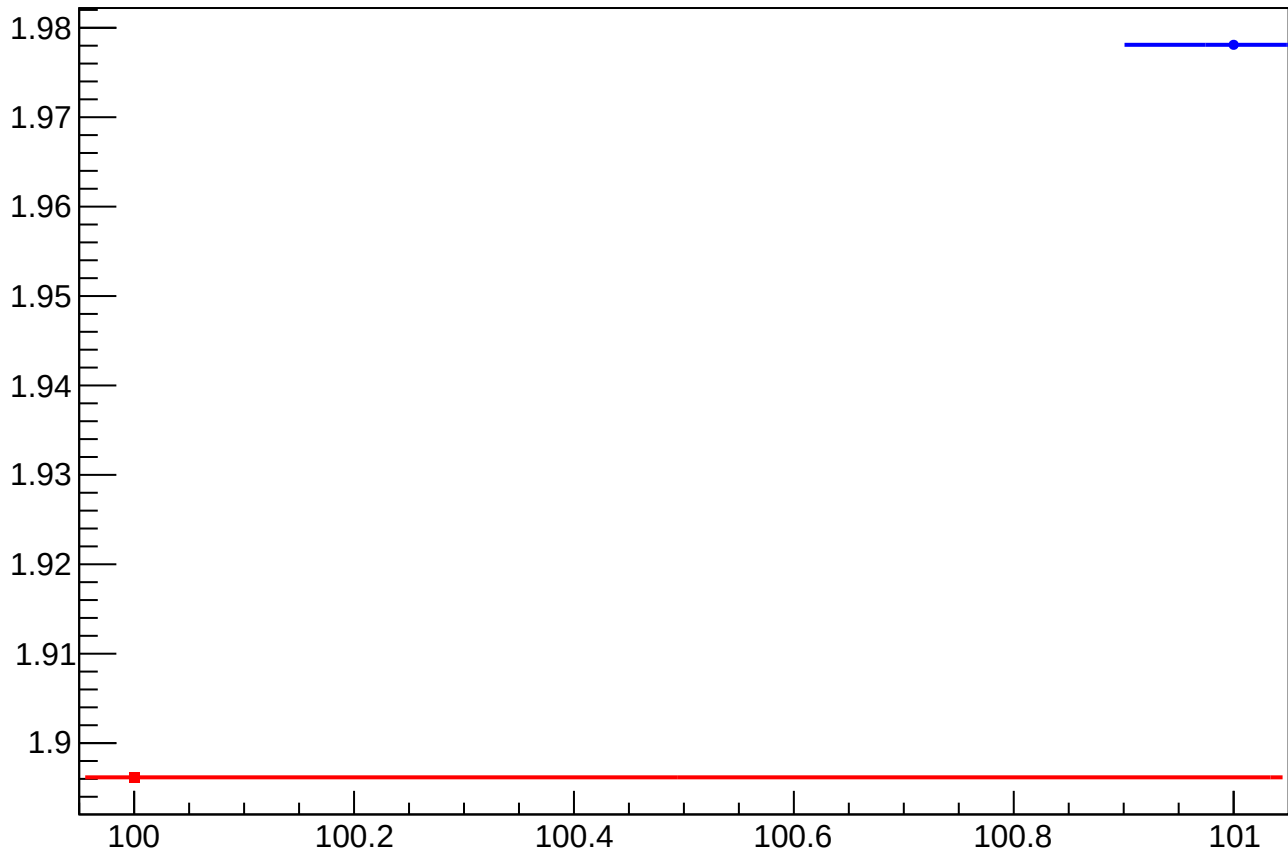
Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 5146.9/1

In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 5146.9/1

# yield\_bpm0i02aX\_mean vs Slug, Sign Corrected



Right In: 1.978+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.896+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

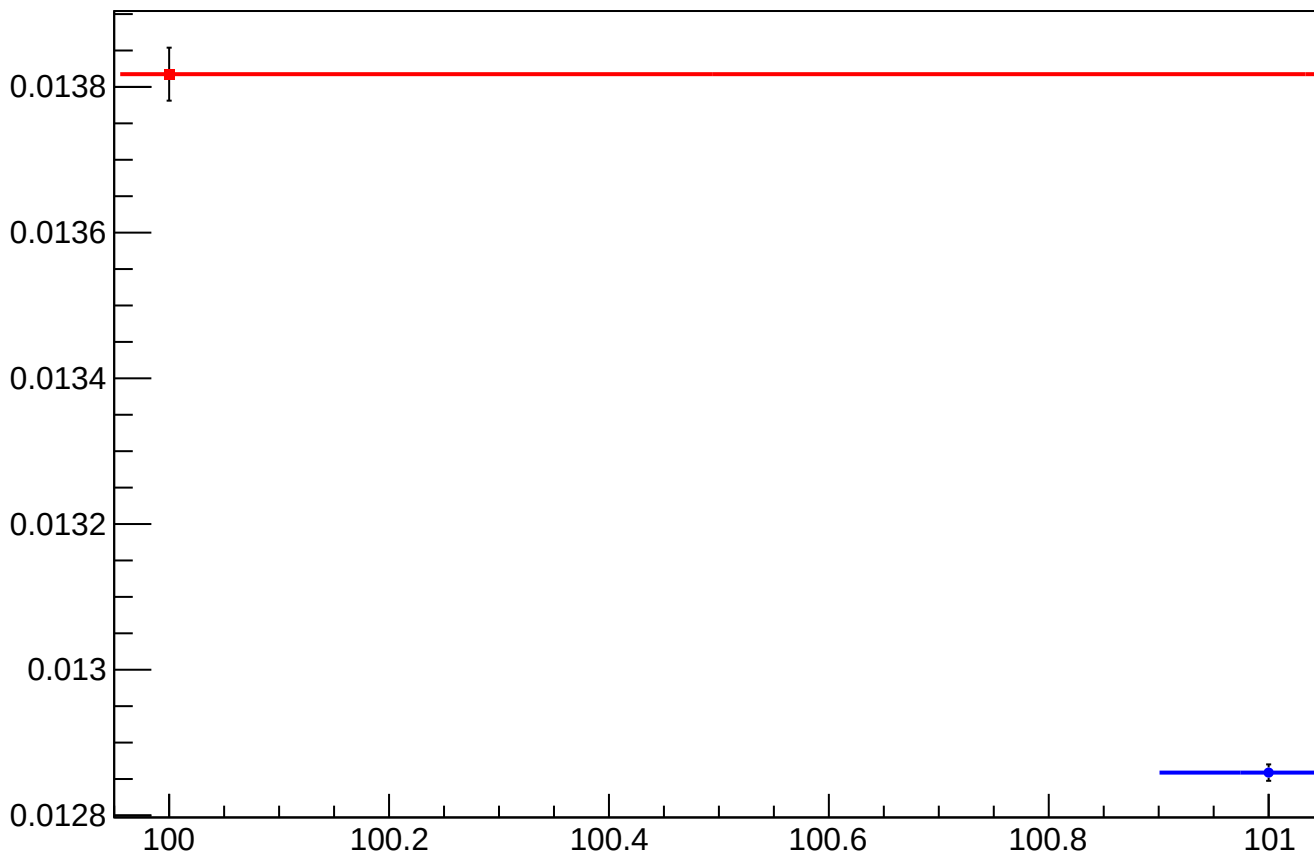
Right: 1.971+/-0.000  $\chi^2/\text{NDF}$ : 2315457.5/1

In: 1.978+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.971+/-0.000  $\chi^2/\text{NDF}$ : 2315457.5/1

# yield\_bpm0i02aX\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 634.2/1

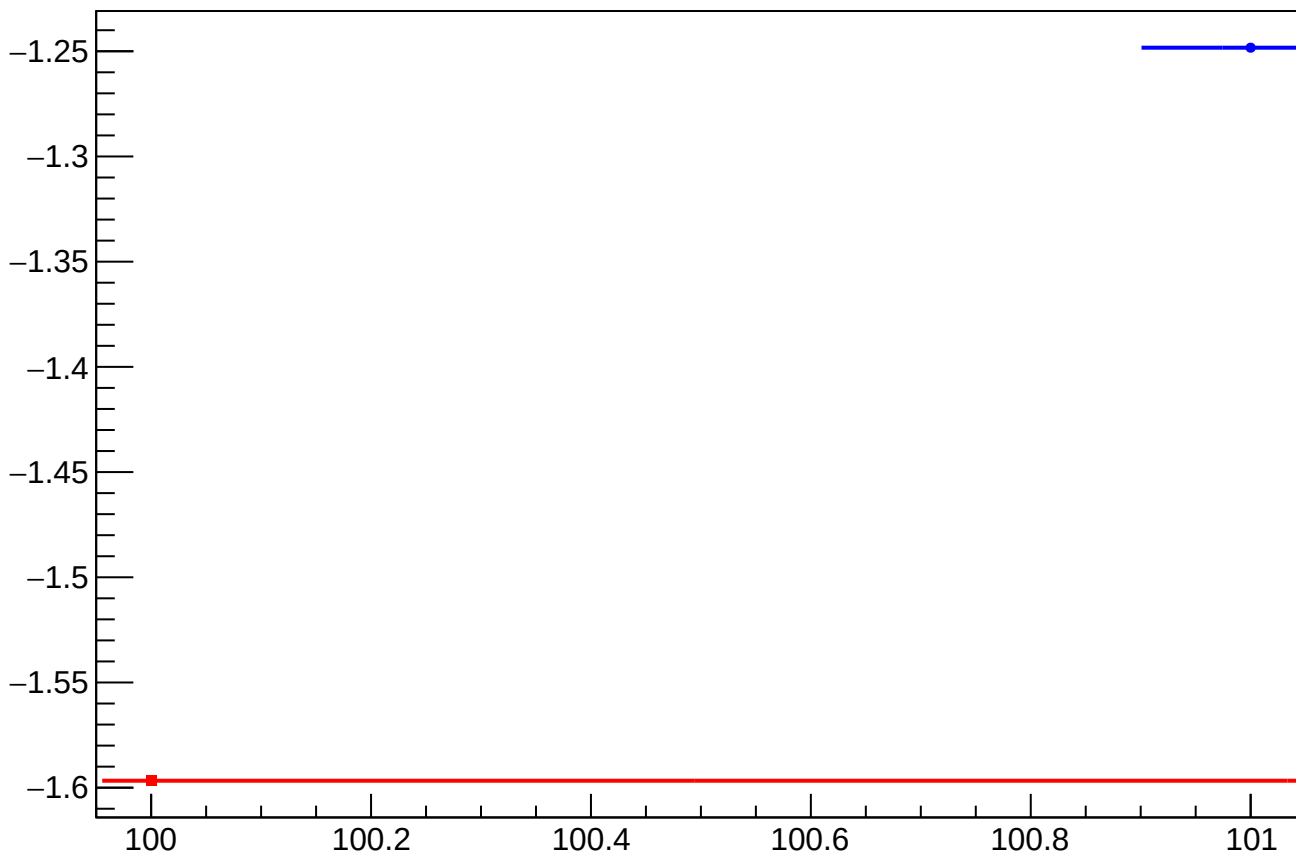
In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 634.2/1



# yield\_bpm0i02aY\_mean vs Slug, Sign Corrected



Right In: -1.248 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.597 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

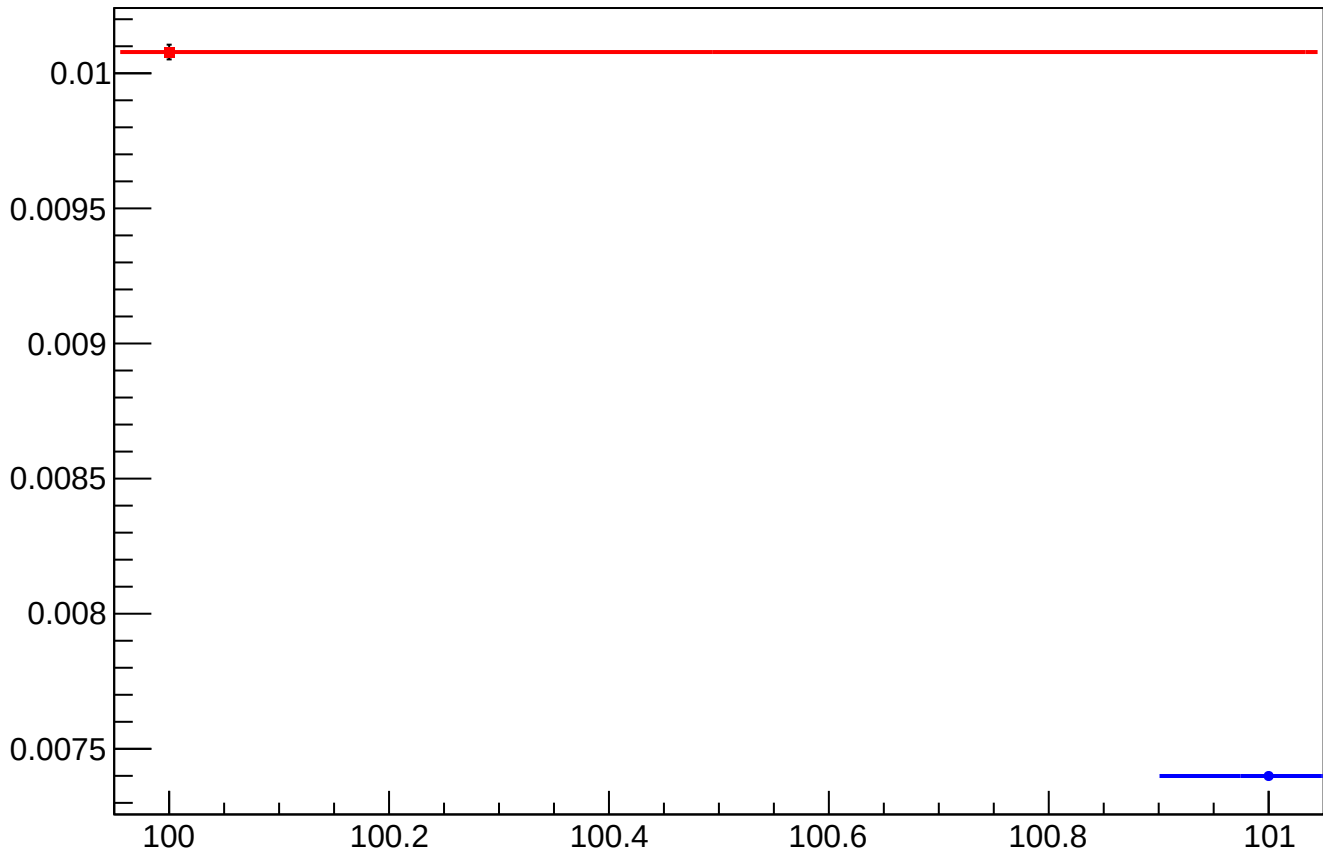
Right: -1.268 +/- 0.000  $\chi^2/\text{NDF}$ : 77025073.5/1

In: -1.248 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.268 +/- 0.000  $\chi^2/\text{NDF}$ : 77025073.5/1

# yield\_bpm0i02aY\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

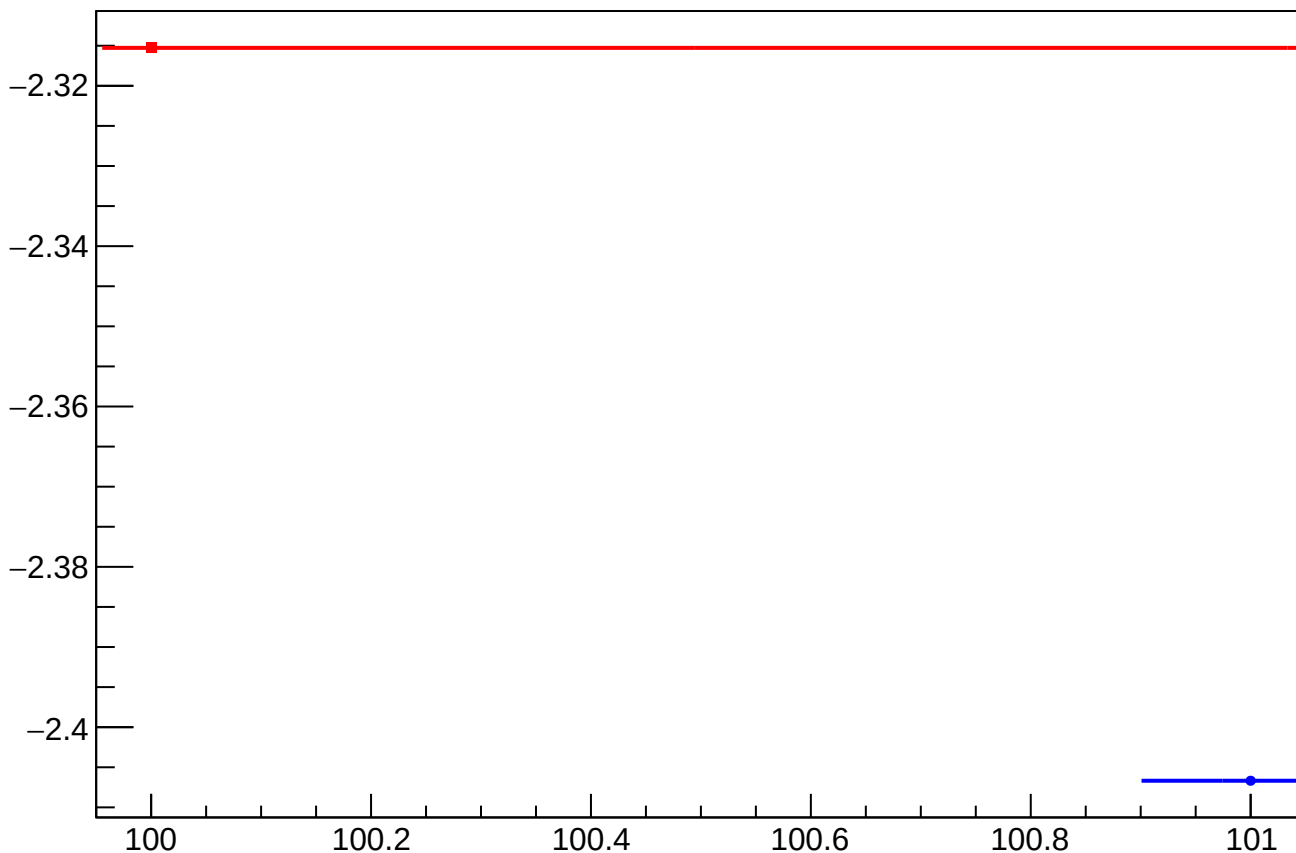
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 9110.7/1

In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 9110.7/1

# yield\_bpm0i05X\_mean vs Slug, Sign Corrected



Right In: -2.407+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.315+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

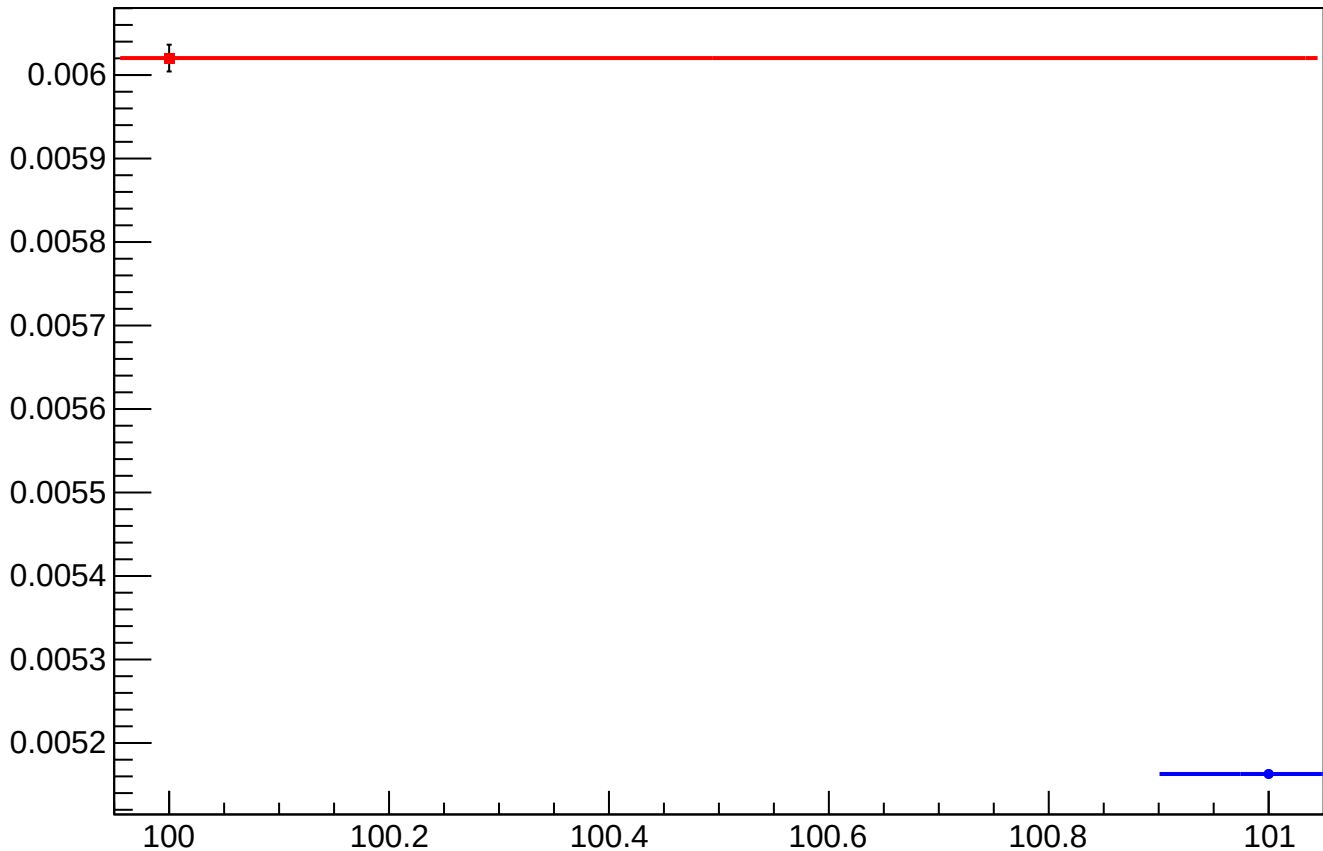
Right: -2.400+/-0.000  $\chi^2/\text{NDF}$ : 15024206.6/1

In: -2.407+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.400+/-0.000  $\chi^2/\text{NDF}$ : 15024206.6/1

# yield\_bpm0i05X\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

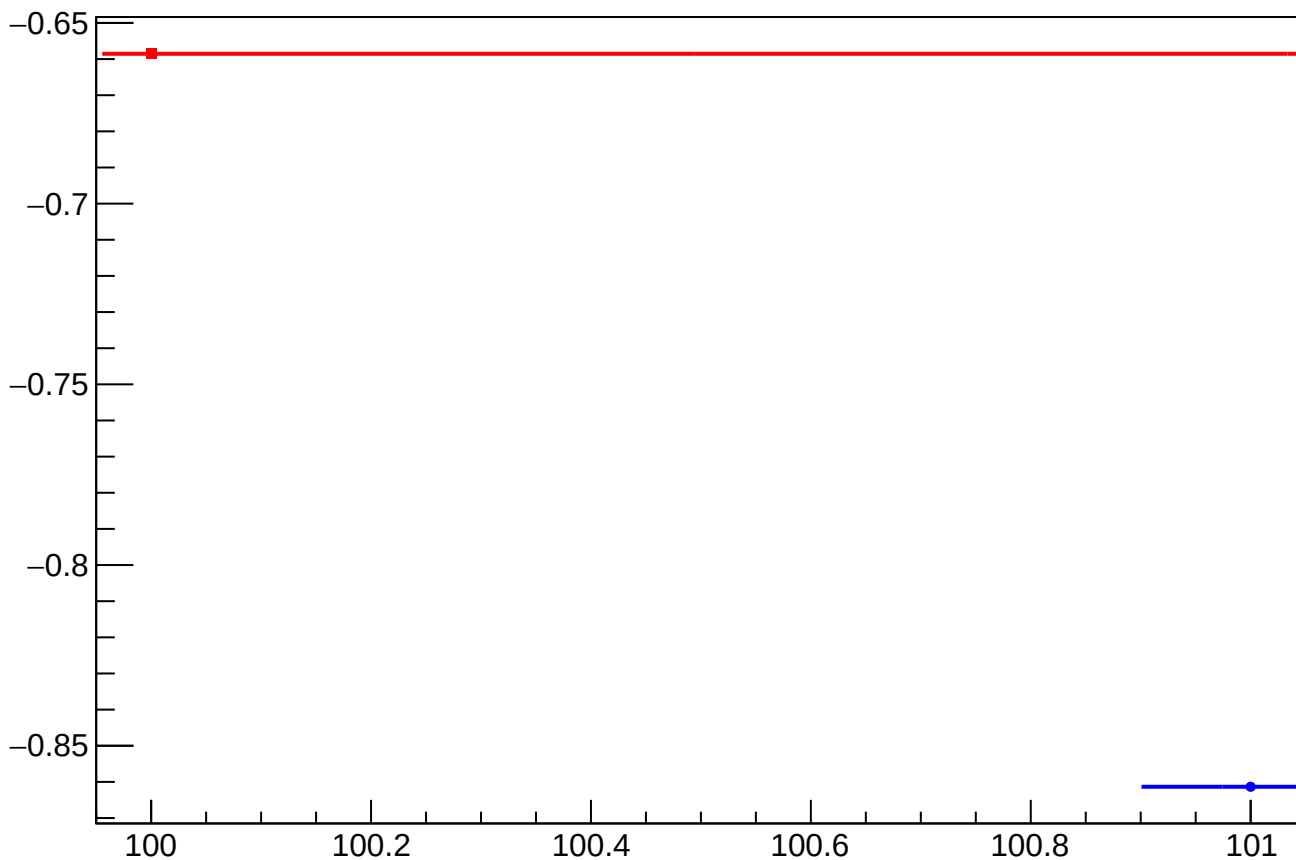
Right: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2643.6/1

In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2643.6/1

# yield\_bpm0i05Y\_mean vs Slug, Sign Corrected



Right In: -0.861+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.659+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

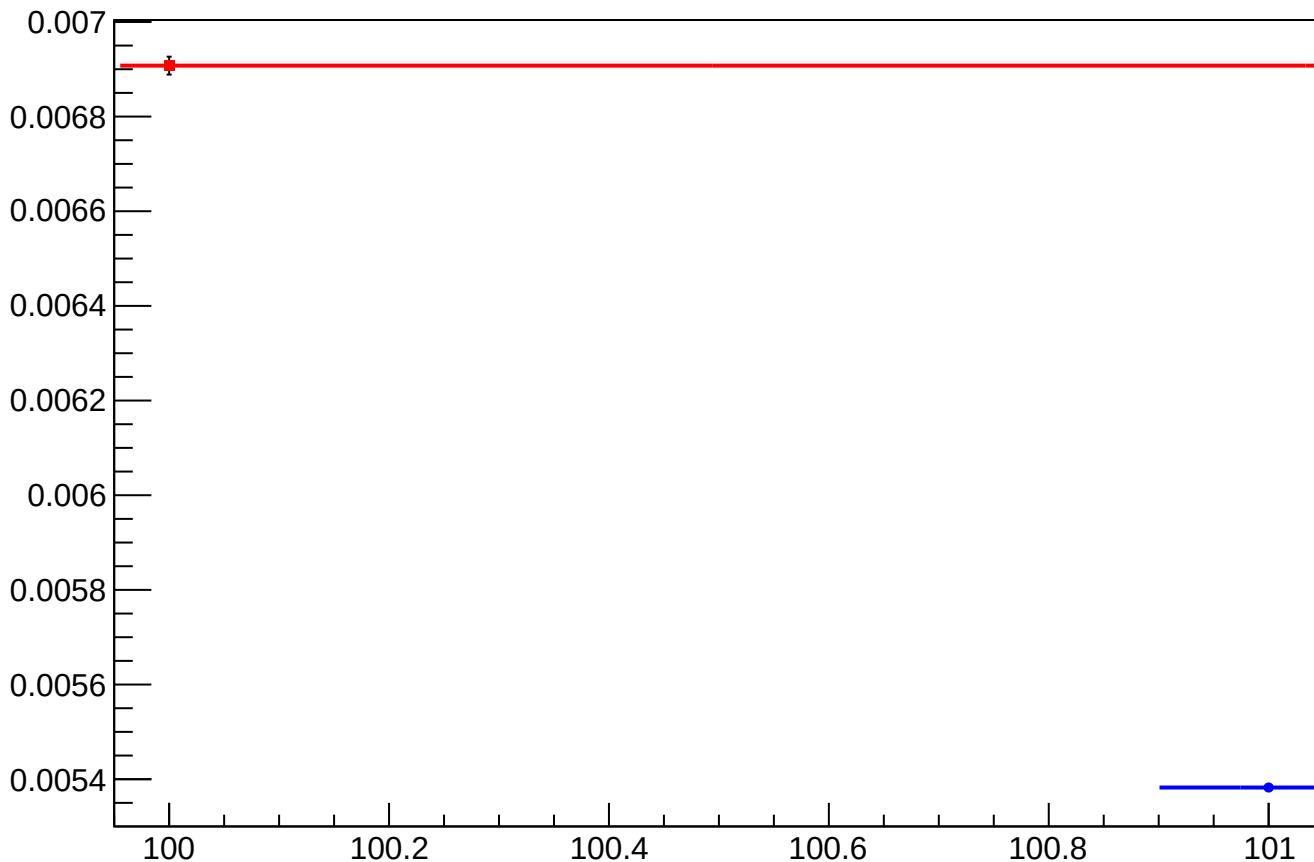
Right: -0.849+/-0.000  $\chi^2/\text{NDF}$ : 53968062.4/1

In: -0.861+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.849+/-0.000  $\chi^2/\text{NDF}$ : 53968062.4/1

# yield\_bpm0i05Y\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

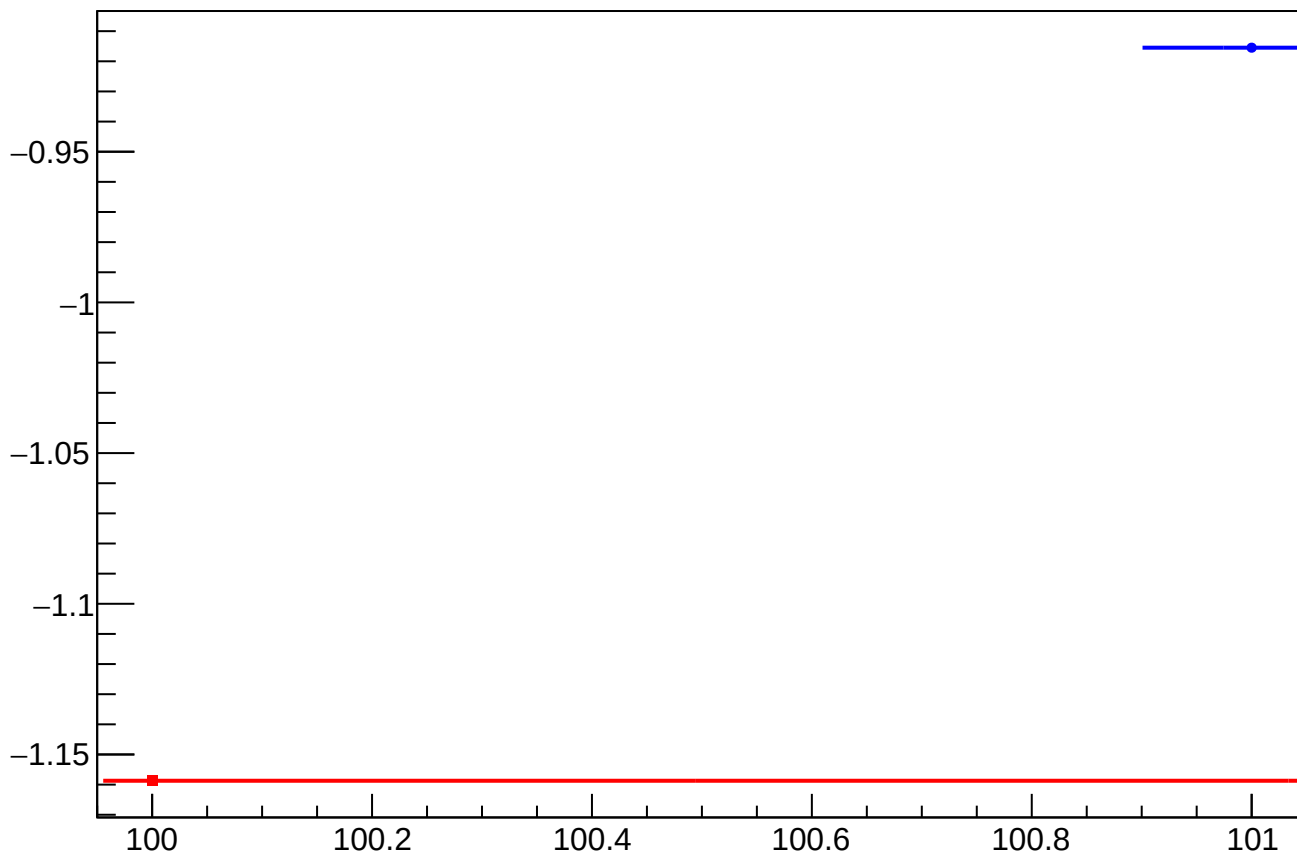
Right: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 6103.8/1

In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 6103.8/1

# yield\_bpm0i07X\_mean vs Slug, Sign Corrected



Right In: -0.915+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.159+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

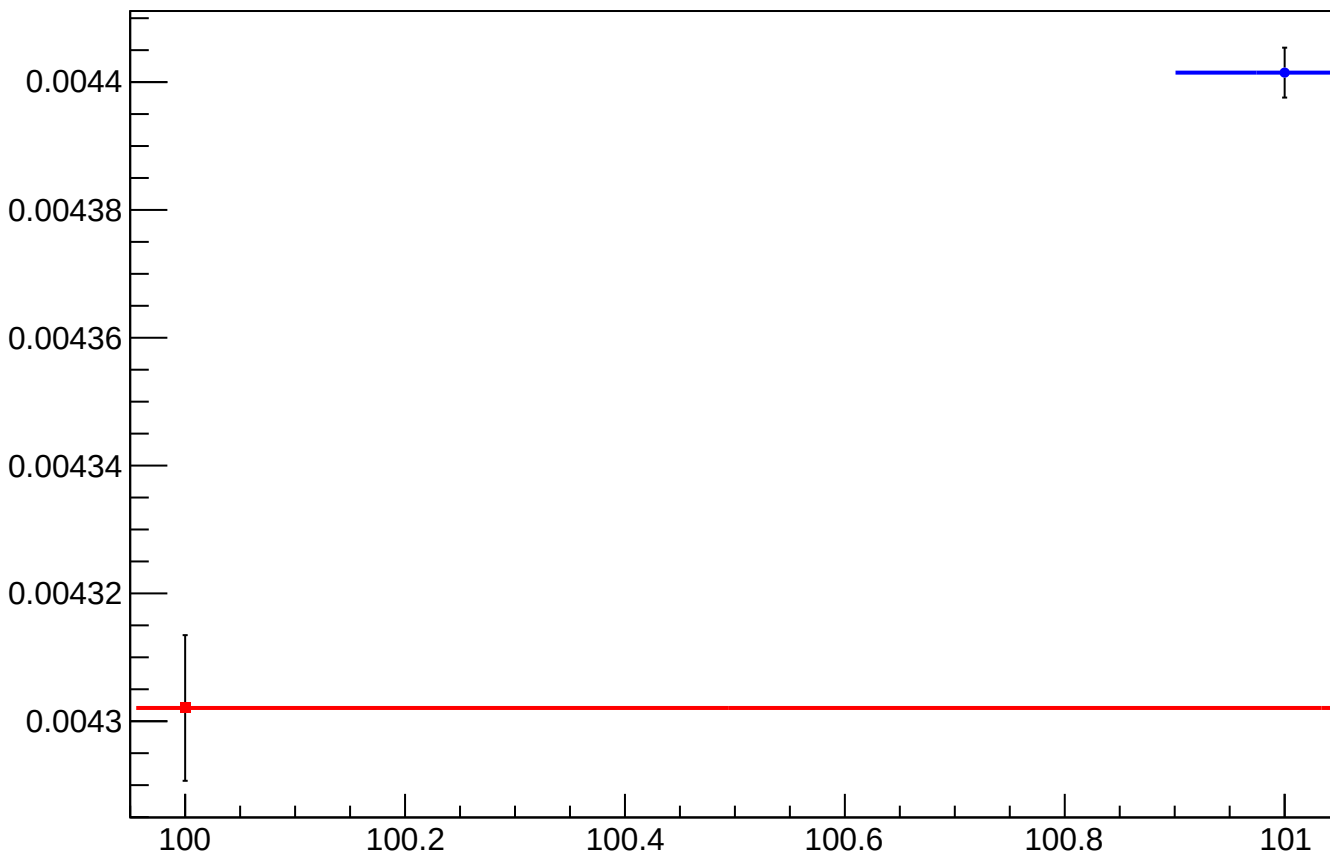
Right: -0.941+/-0.000  $\chi^2/\text{NDF}$ : 203876239.1/1

In: -0.915+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.941+/-0.000  $\chi^2/\text{NDF}$ : 203876239.1/1

# yield\_bpm0i07X\_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 68.1/1

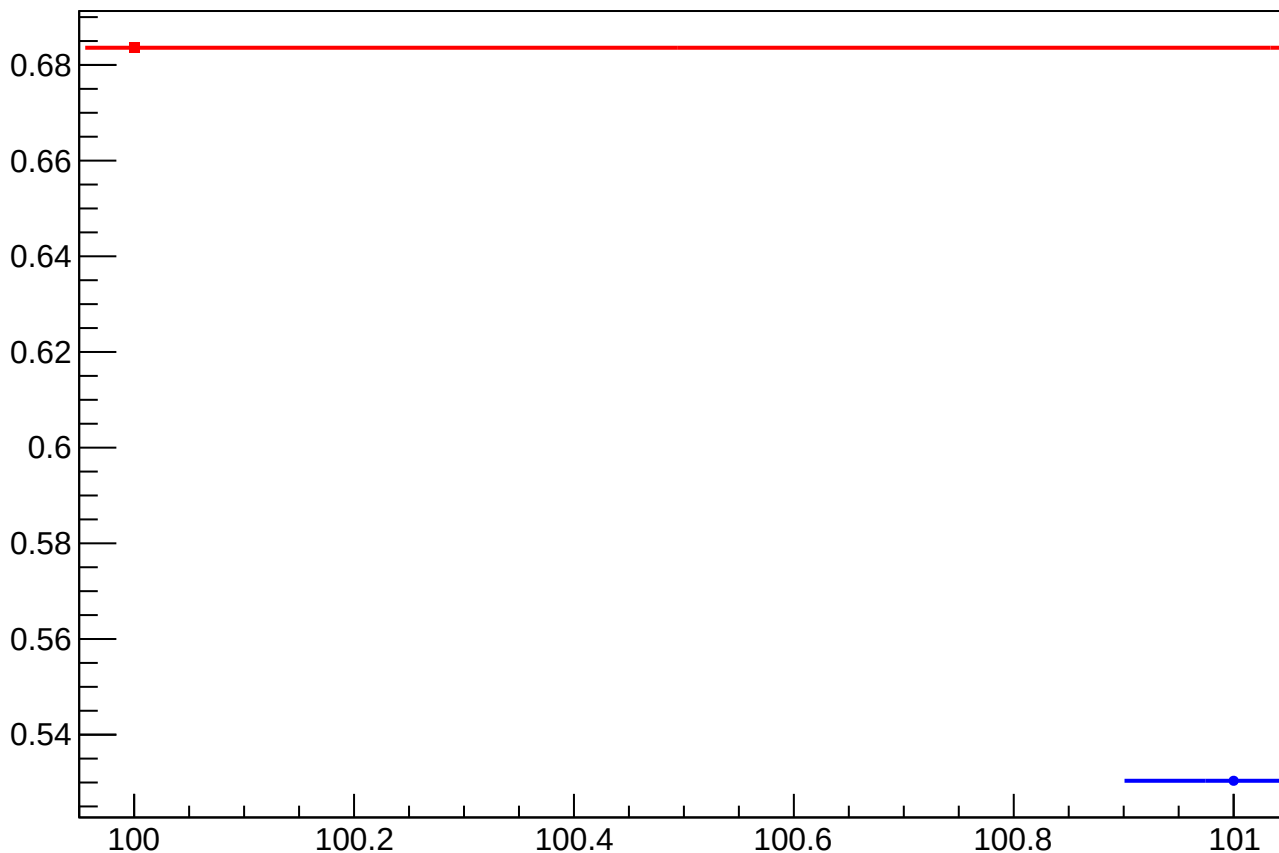
In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 68.1/1



# yield\_bpm0i07Y\_mean vs Slug, Sign Corrected



Right In: 0.530+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.684+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

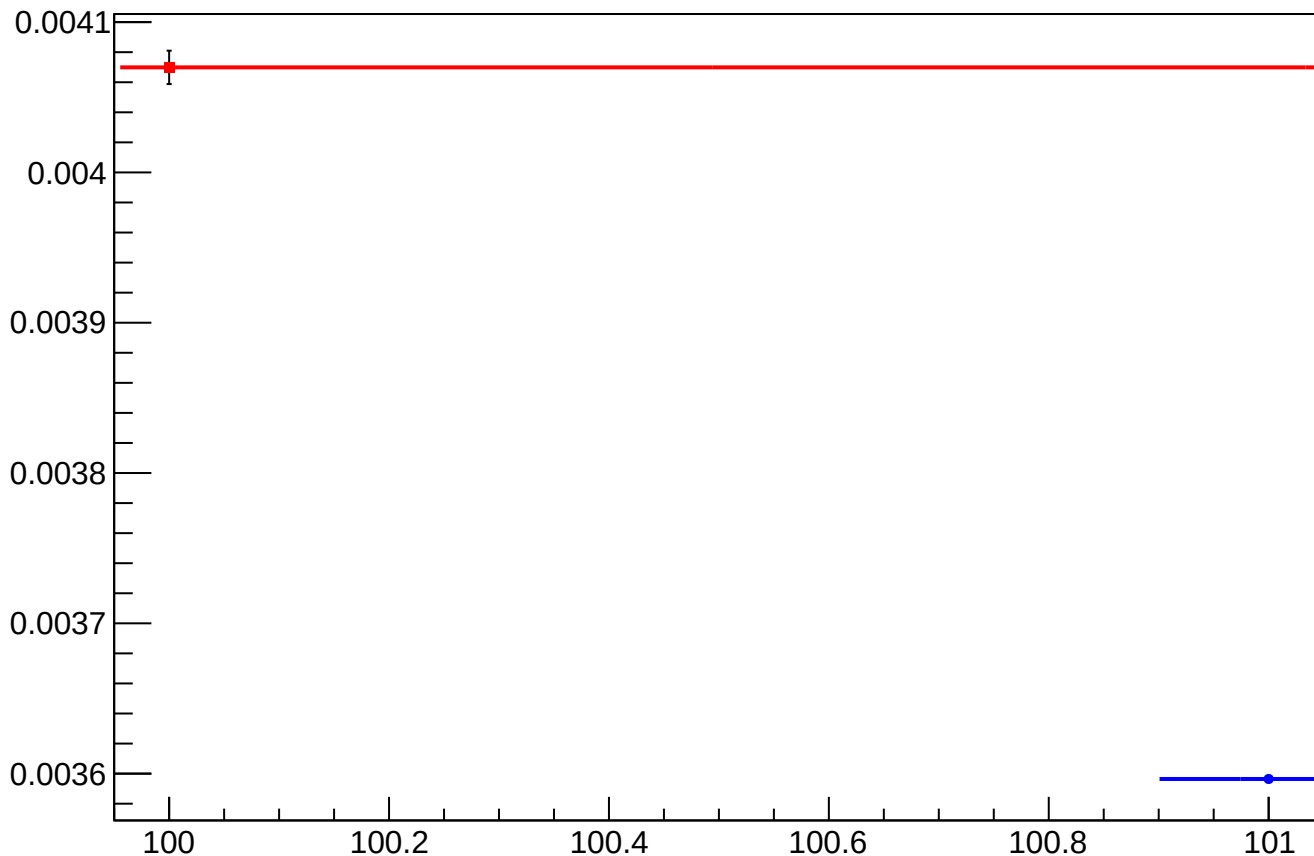
Right: 0.542+/-0.000  $\chi^2/\text{NDF}$ : 87873957.1/1

In: 0.530+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.542+/-0.000  $\chi^2/\text{NDF}$ : 87873957.1/1

# yield\_bpm0i07Y\_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

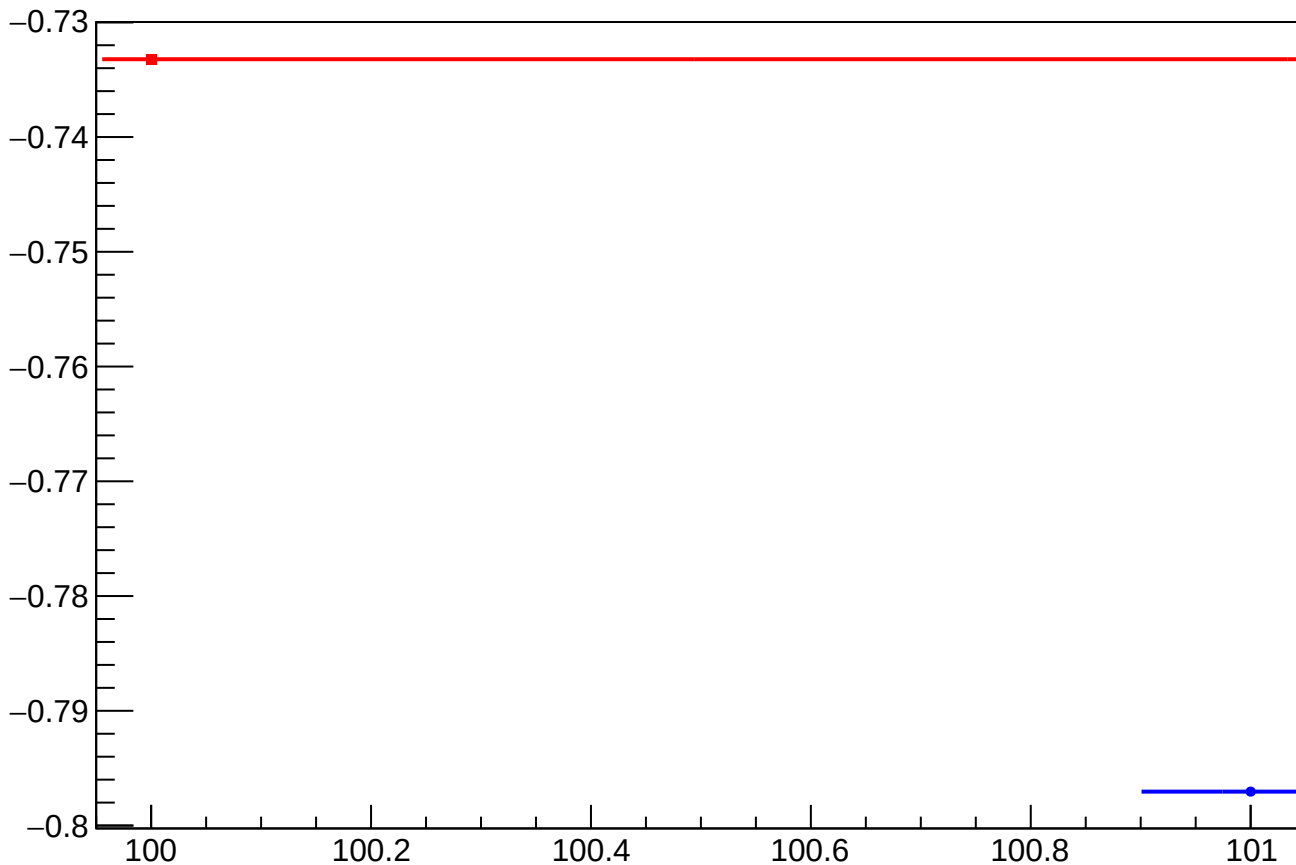
Right: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1677.9/1

In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1677.9/1

# yield\_bpm1i02X\_mean vs Slug, Sign Corrected



Right In: -0.797+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.733+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

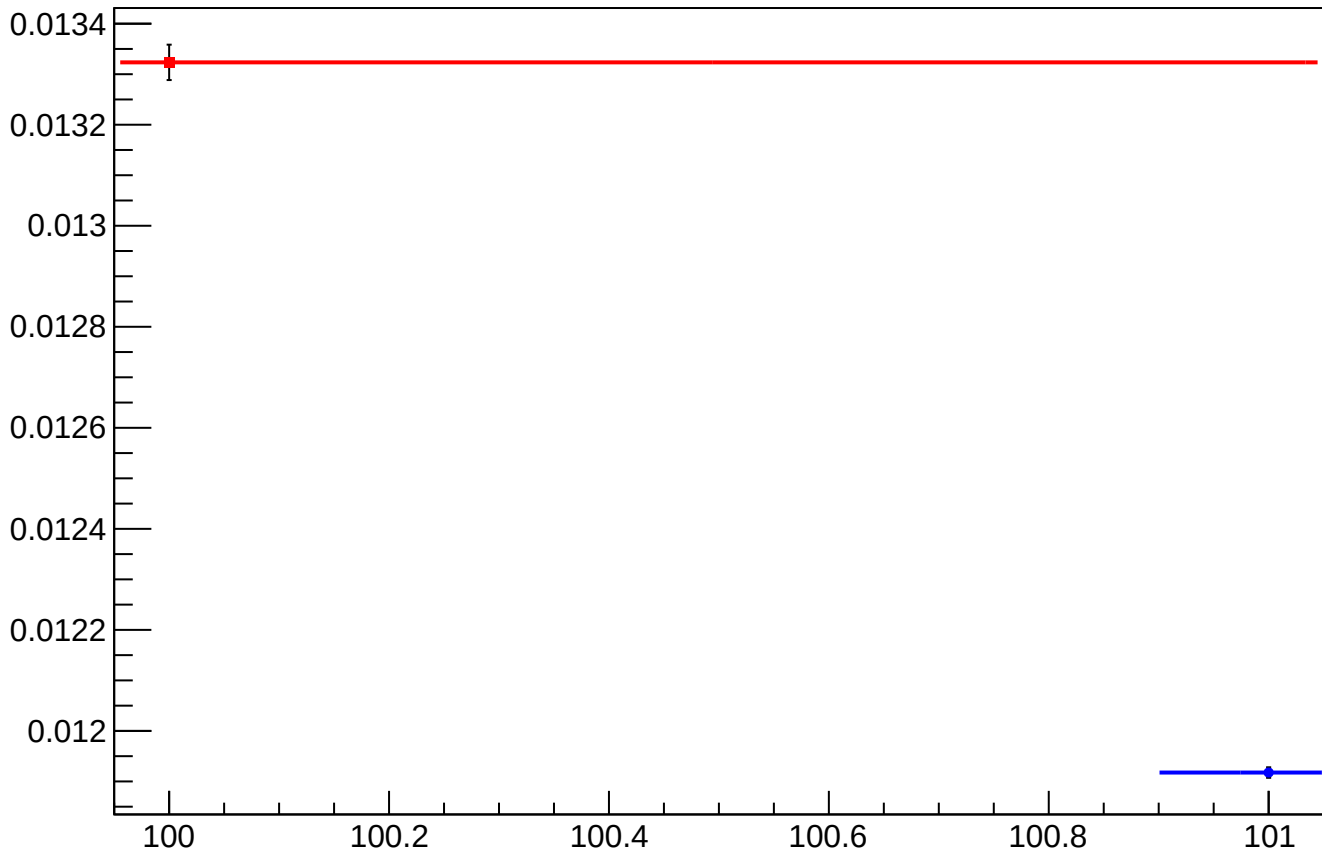
Right: -0.792+/-0.000  $\chi^2/\text{NDF}$ : 1526483.0/1

In: -0.797+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.792+/-0.000  $\chi^2/\text{NDF}$ : 1526483.0/1

# yield\_bpm1i02X\_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

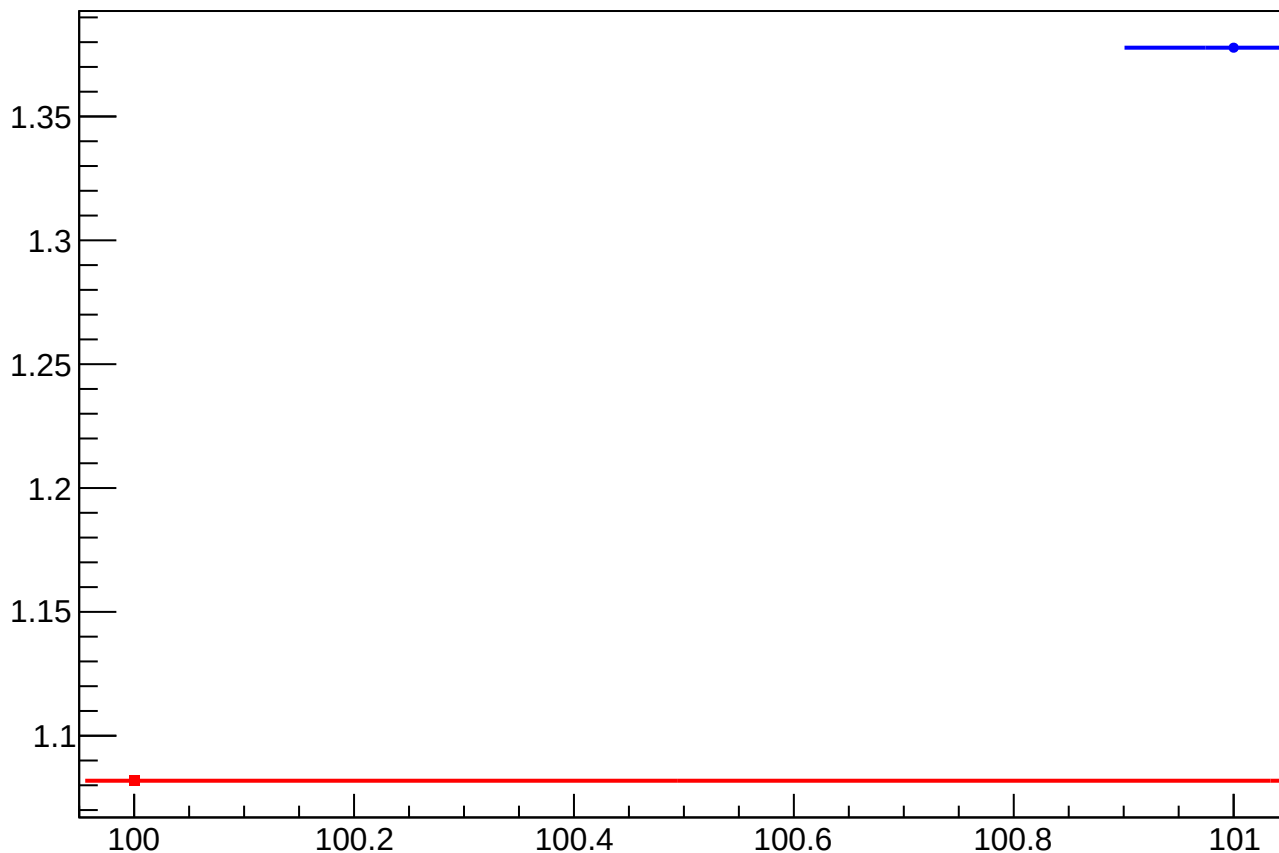
Right: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1481.3/1

In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1481.3/1

# yield\_bpm1i02Y\_mean vs Slug, Sign Corrected



Right In: 1.378+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.082+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

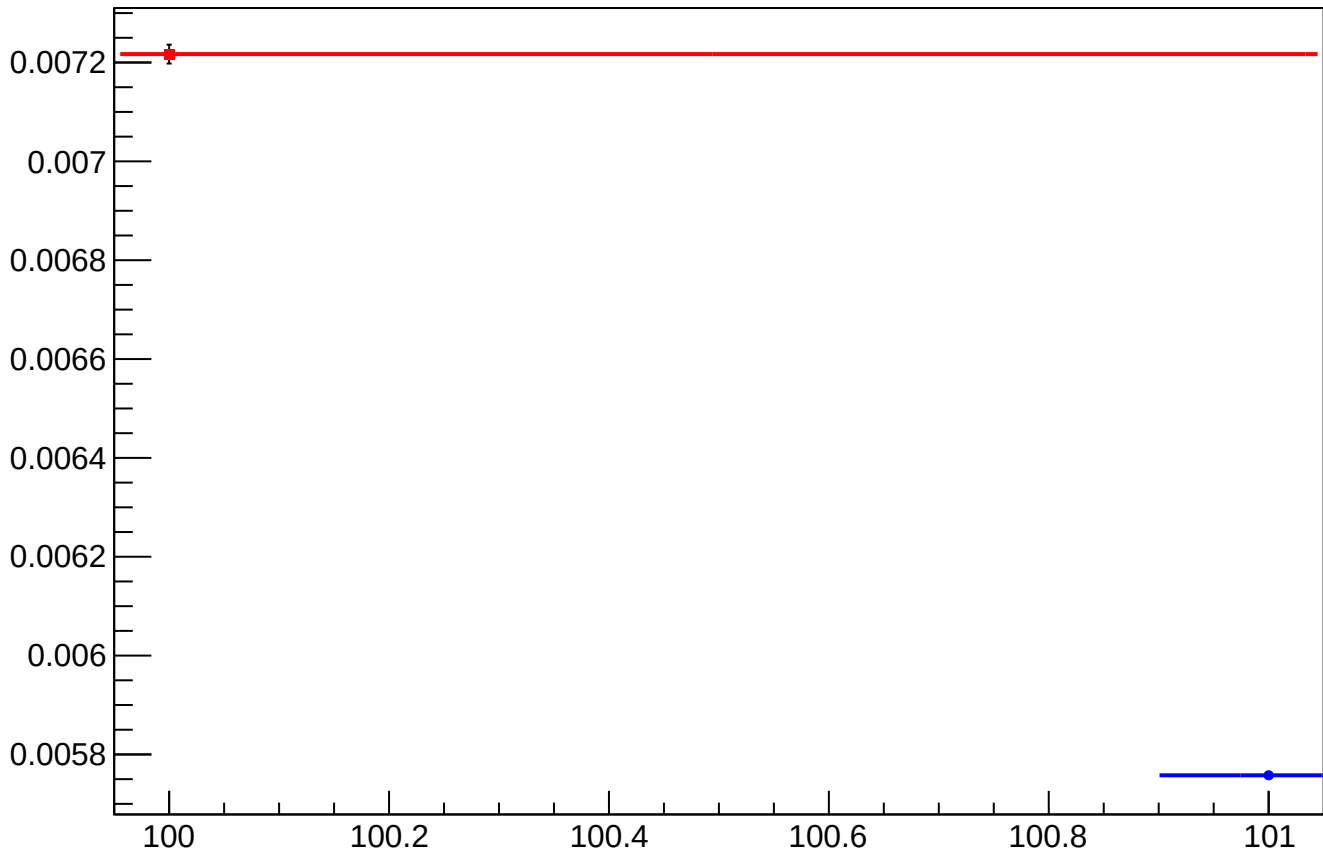
Right: 1.358+/-0.000  $\chi^2/\text{NDF}$ : 112505506.4/1

In: 1.378+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.358+/-0.000  $\chi^2/\text{NDF}$ : 112505506.4/1

# yield\_bpm1i02Y\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

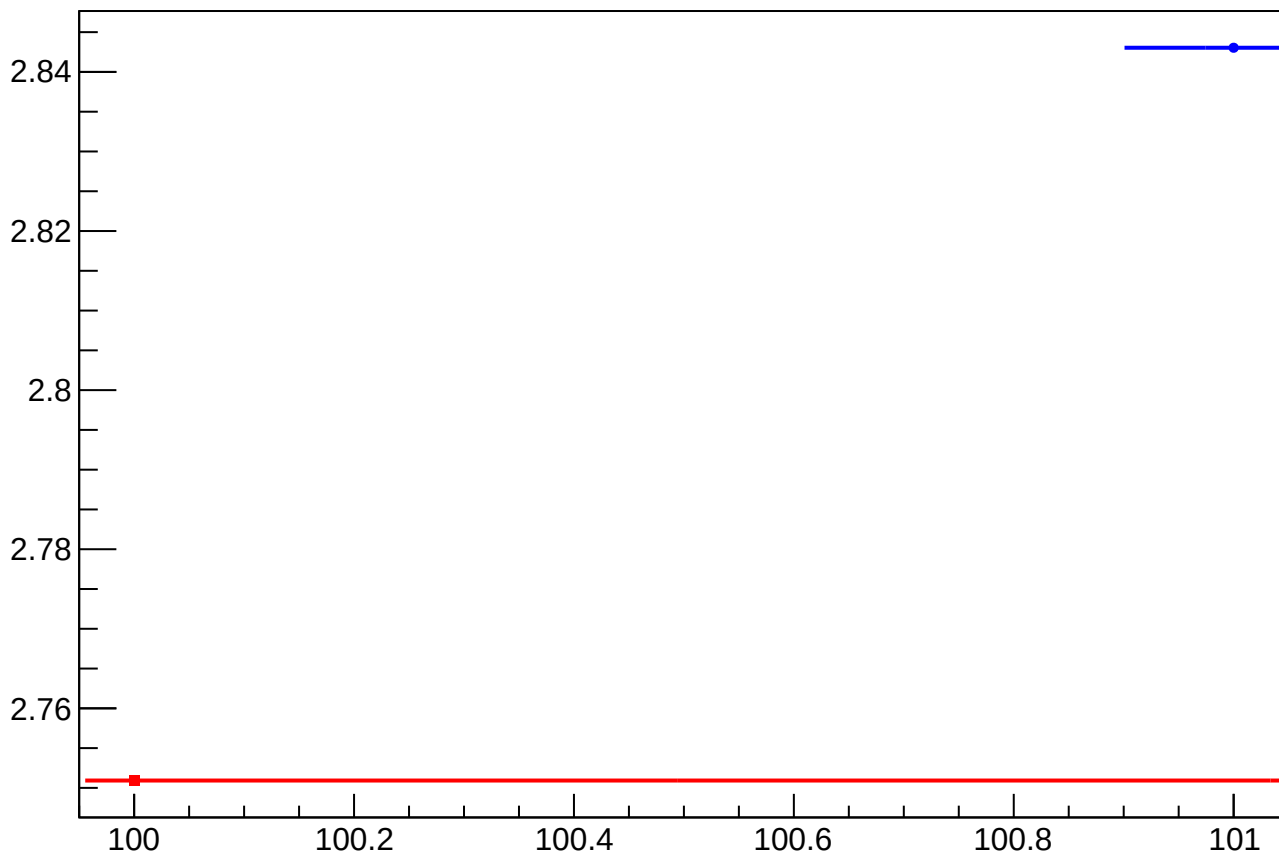
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 5470.8/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 5470.8/1

# yield\_bpm1i04X\_mean vs Slug, Sign Corrected



Right In: 2.843+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.751+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

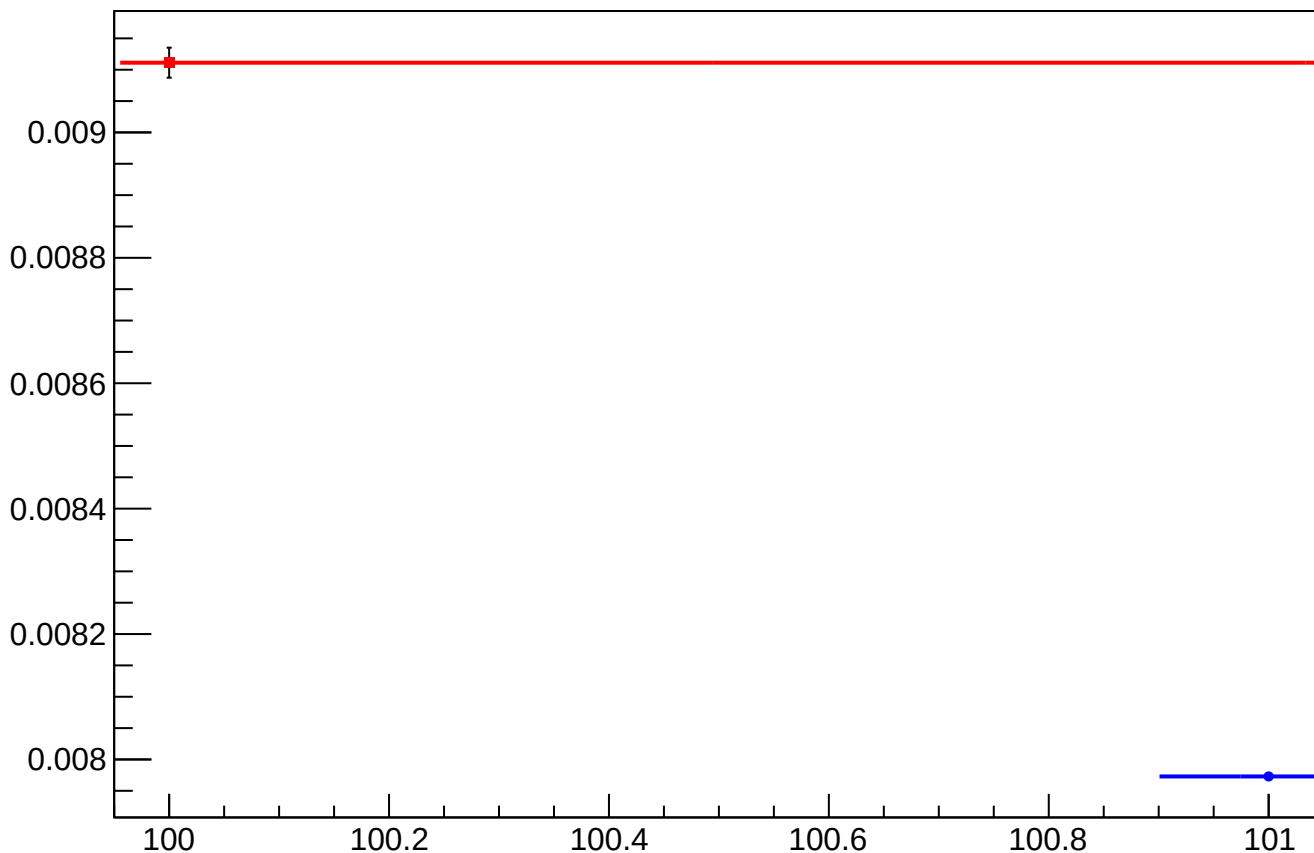
Right: 2.836+/-0.000  $\chi^2/\text{NDF}$ : 6822609.1/1

In: 2.843+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.836+/-0.000  $\chi^2/\text{NDF}$ : 6822609.1/1

# yield\_bpm1i04X\_rms vs Slug, Sign Corrected

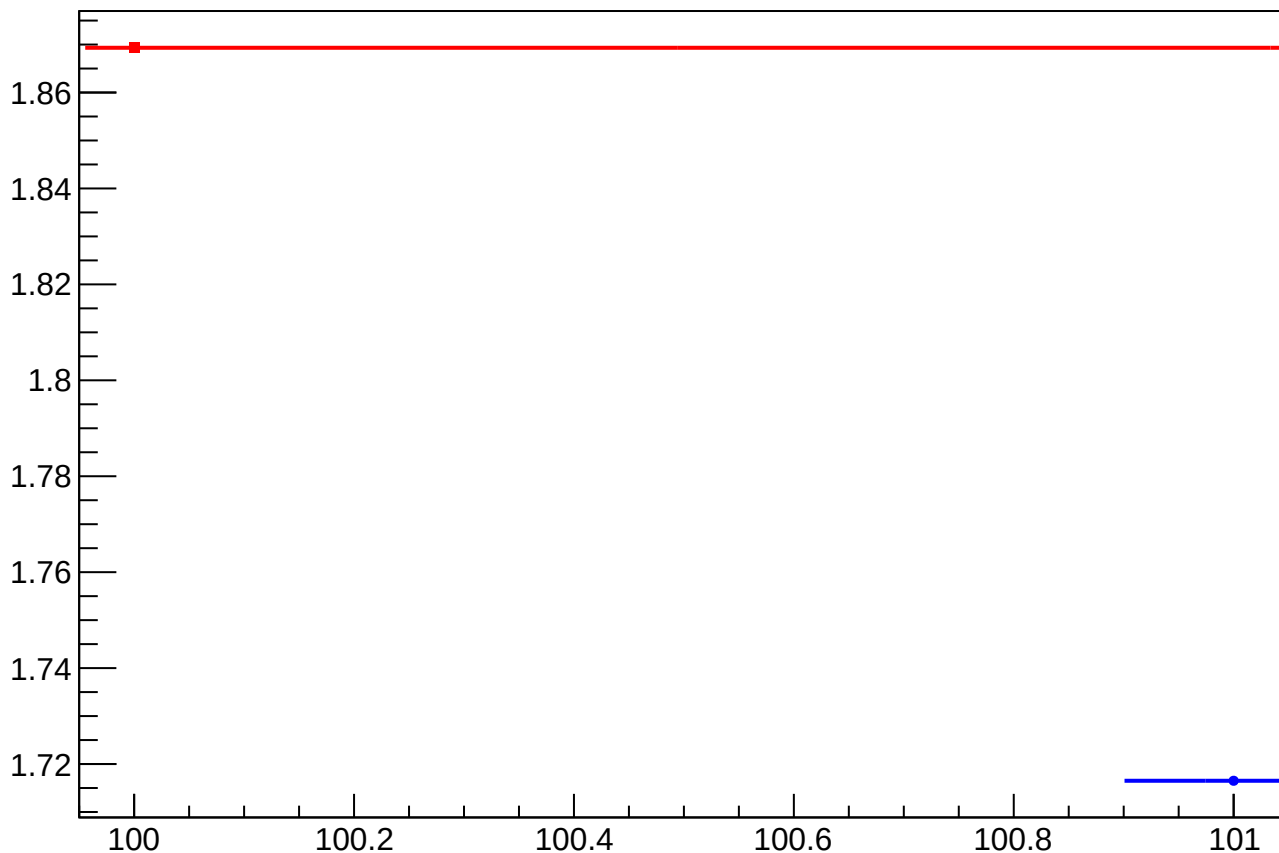


Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 2083.7/1  
In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 2083.7/1



# yield\_bpm1i04Y\_mean vs Slug, Sign Corrected



Right In: 1.717 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.869 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

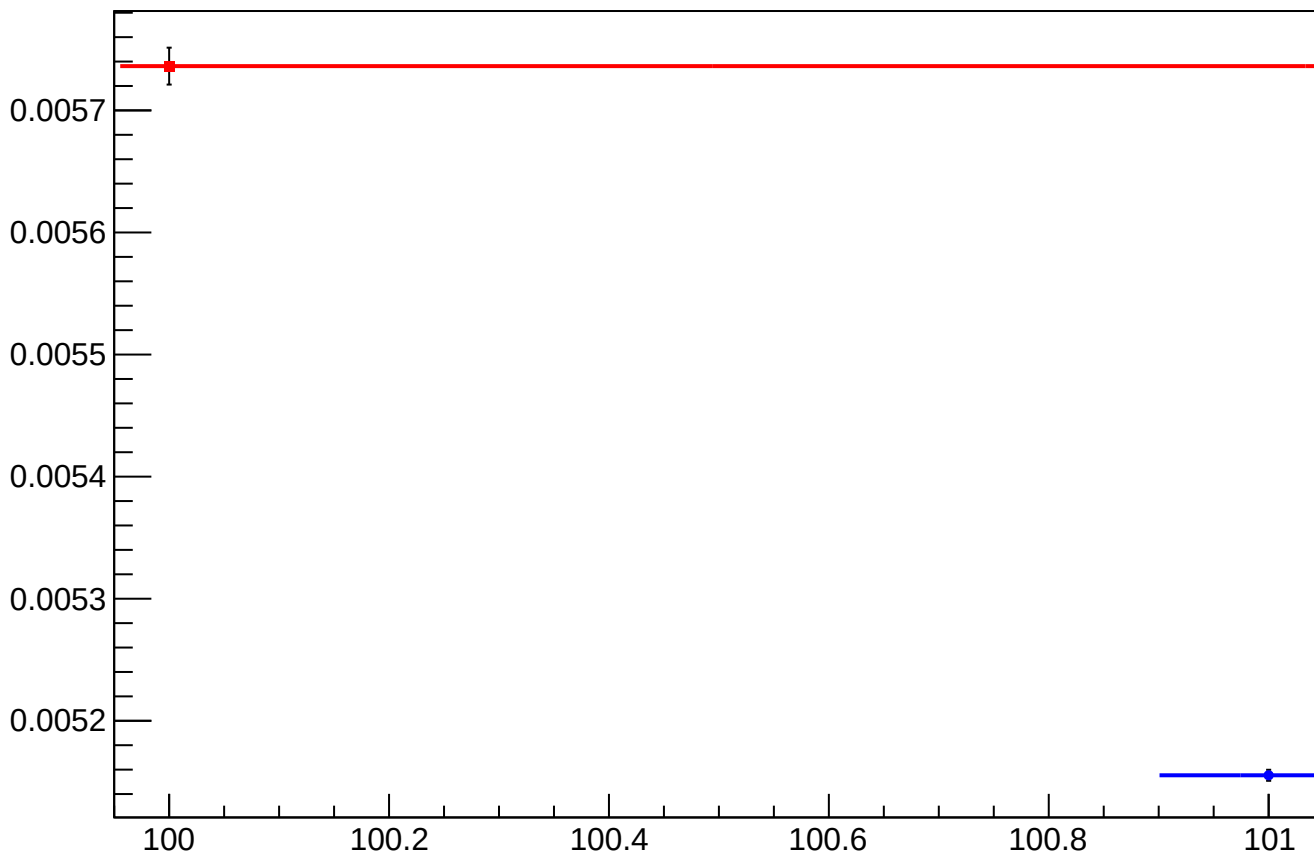
Right: 1.729 $\pm$ 0.000  $\chi^2$ /NDF: 46930810.9/1

In: 1.717 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.729 $\pm$ 0.000  $\chi^2$ /NDF: 46930810.9/1

# yield\_bpm1i04Y\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

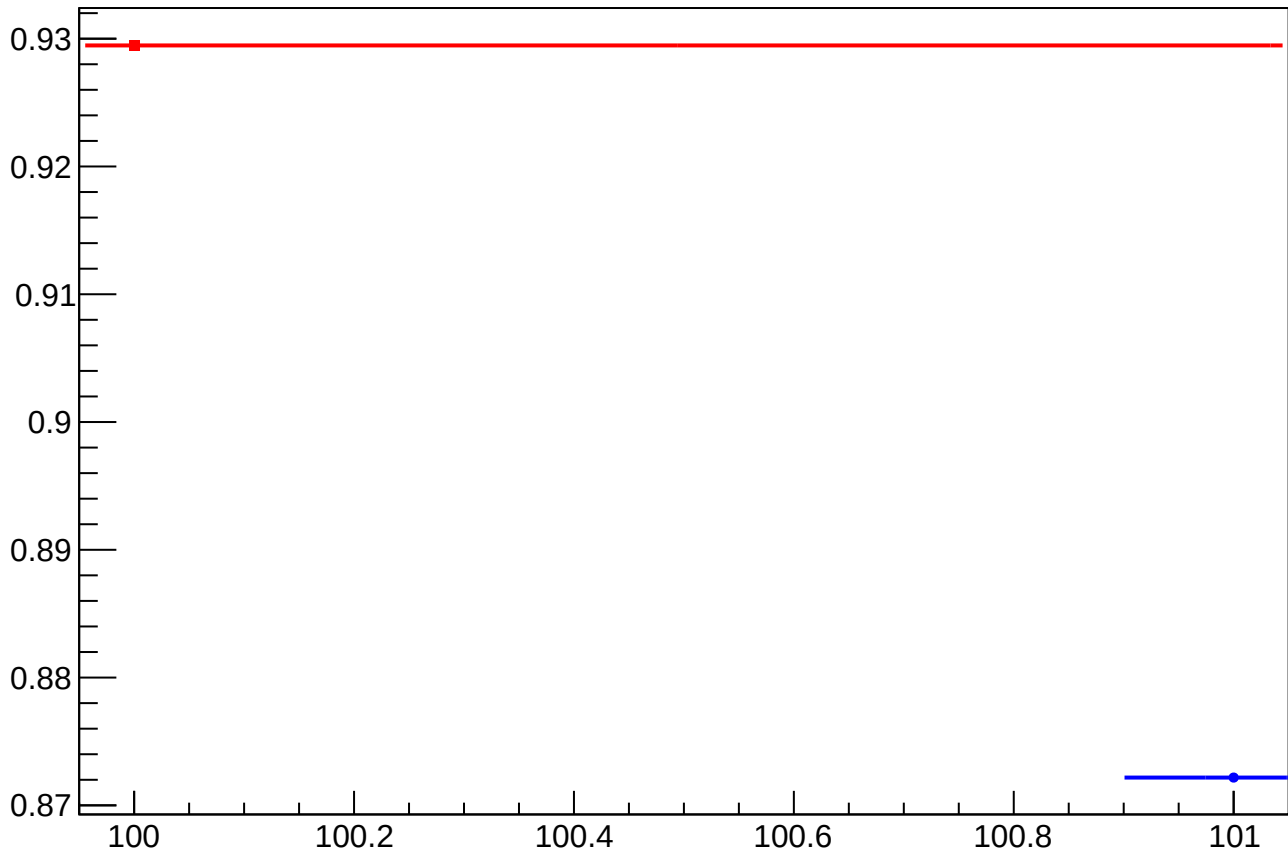
Right: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1356.2/1

In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1356.2/1

# yield\_bpm1i06X\_mean vs Slug, Sign Corrected



Right In: 0.872+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.929+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

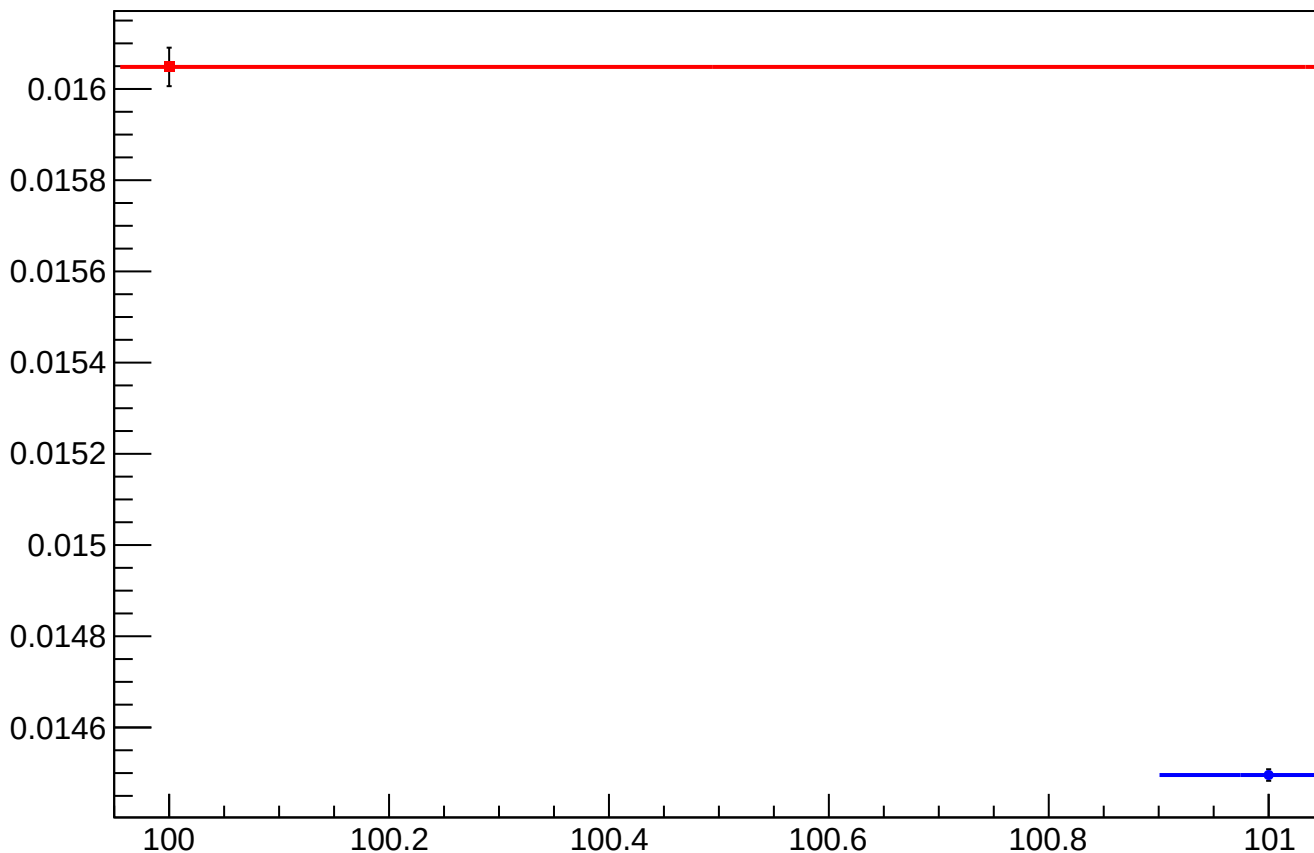
Right: 0.877+/-0.000  $\chi^2/\text{NDF}$ : 845569.2/1

In: 0.872+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.877+/-0.000  $\chi^2/\text{NDF}$ : 845569.2/1

# yield\_bpm1i06X\_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

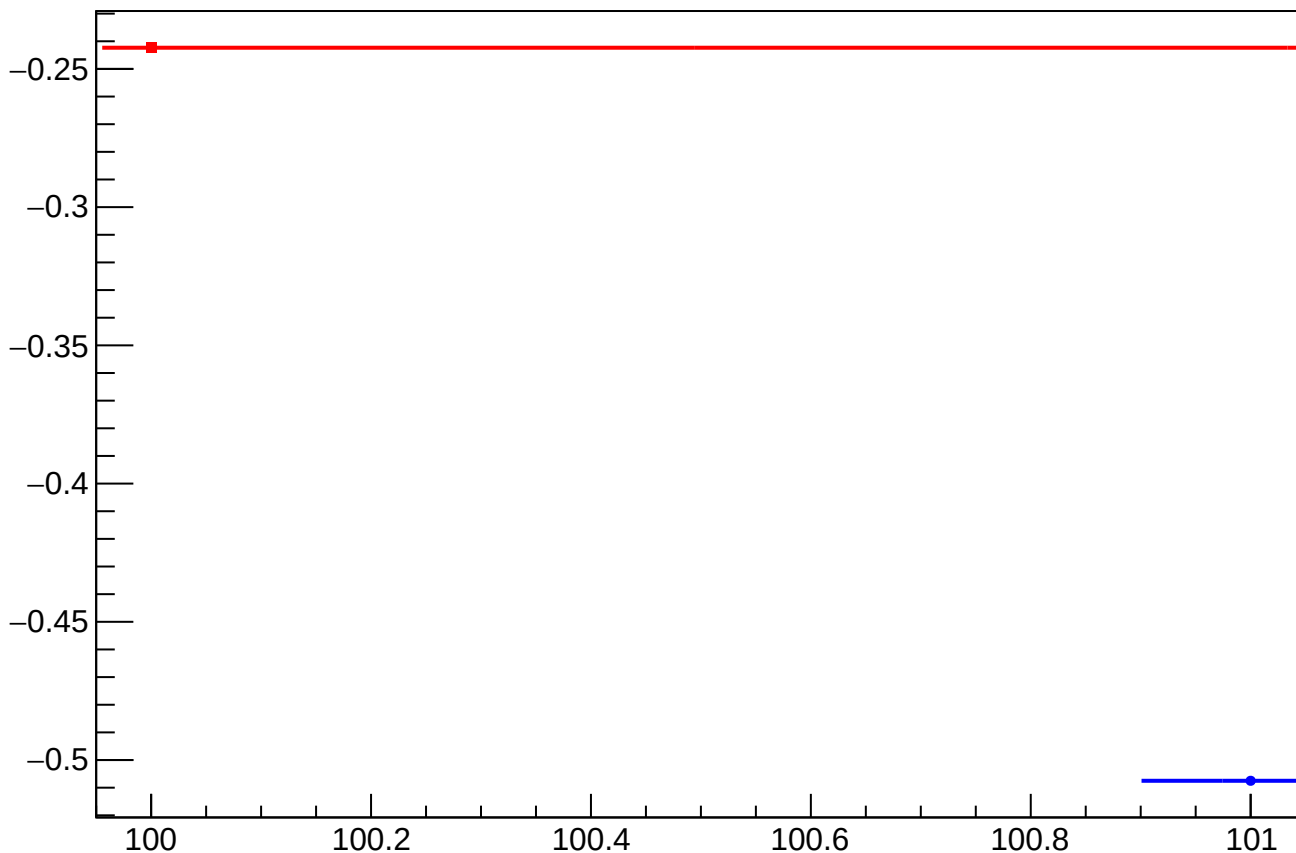
Right: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1241.7/1

In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1241.7/1

# yield\_bpm1i06Y\_mean vs Slug, Sign Corrected



Right In: -0.508+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.242+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

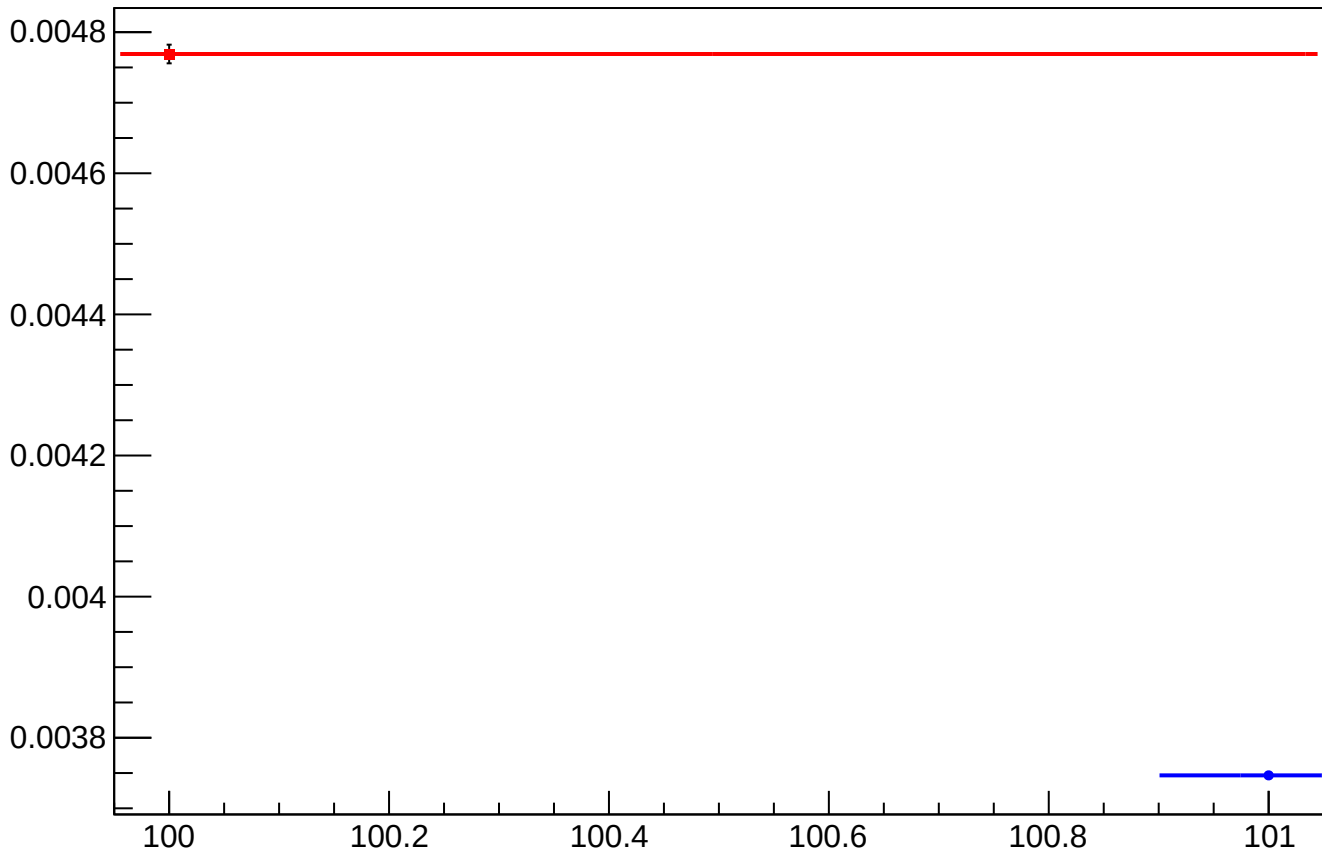
Right: -0.491+/-0.000  $\chi^2/\text{NDF}$ : 188363031.1/1

In: -0.508+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.491+/-0.000  $\chi^2/\text{NDF}$ : 188363031.1/1

# yield\_bpm1i06Y\_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

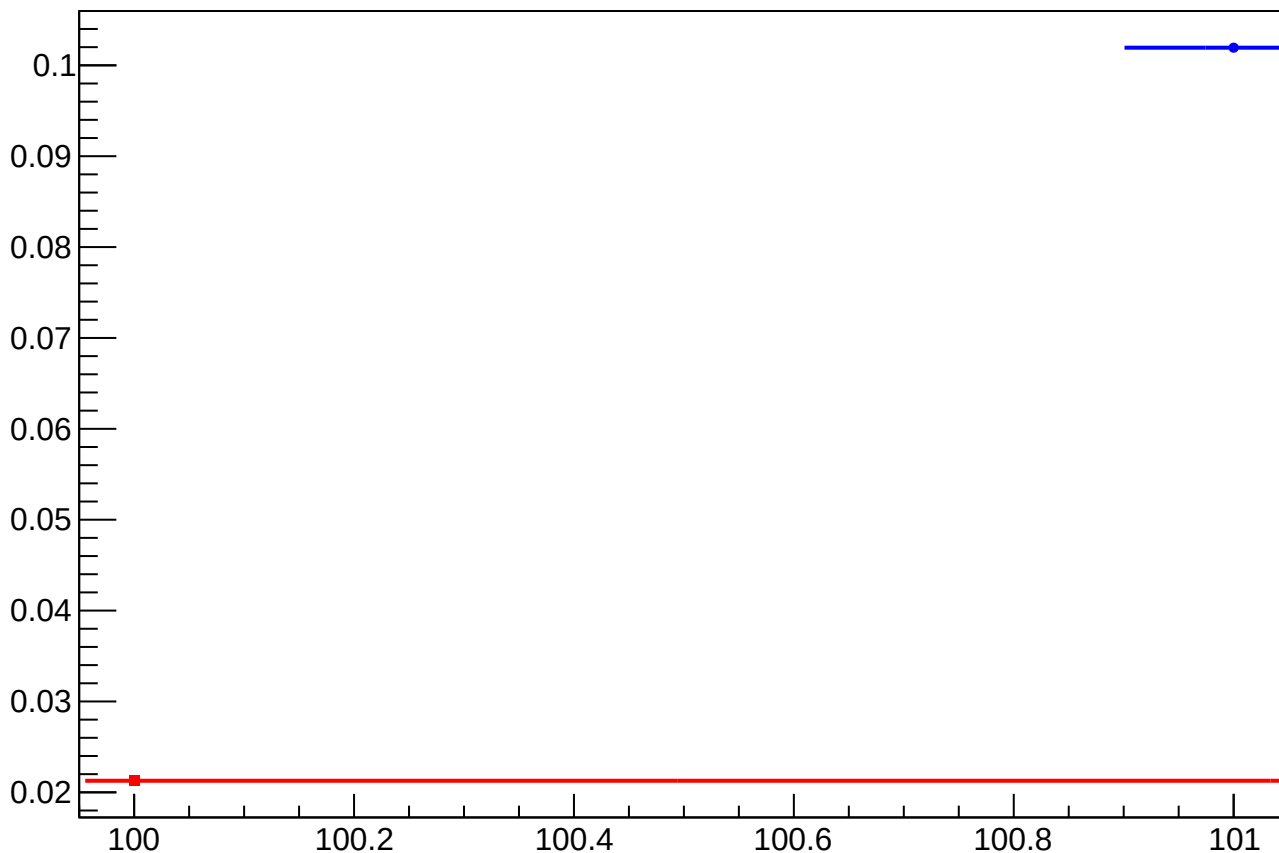
Right: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 5599.9/1

In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 5599.9/1

# yield\_bpm2i01X\_mean vs Slug, Sign Corrected



Right In: 0.102+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

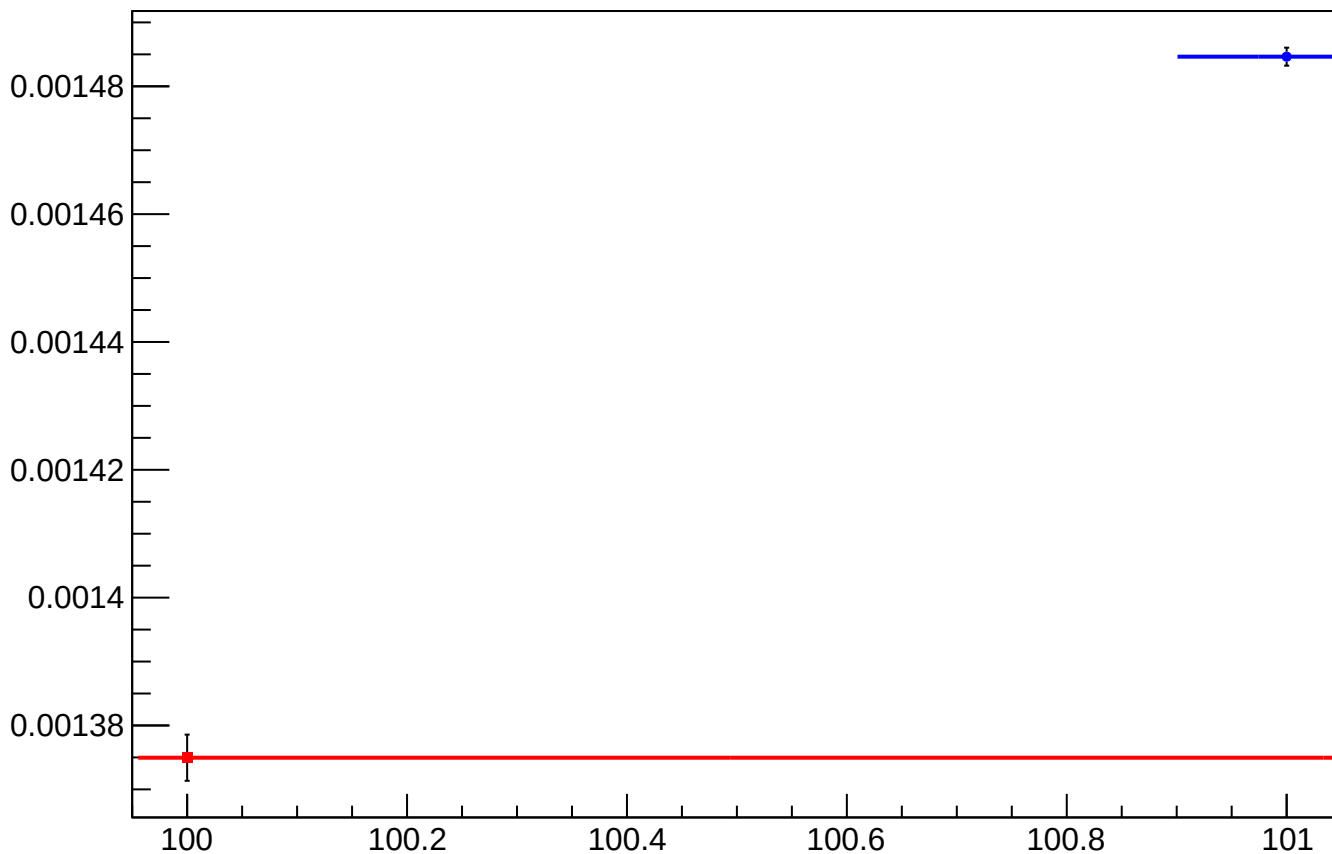
Right: 0.091+/-0.000  $\chi^2/\text{NDF}$ : 216387869.8/1

In: 0.102+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.091+/-0.000  $\chi^2/\text{NDF}$ : 216387869.8/1

# yield\_bpm2i01X\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 800.1/1

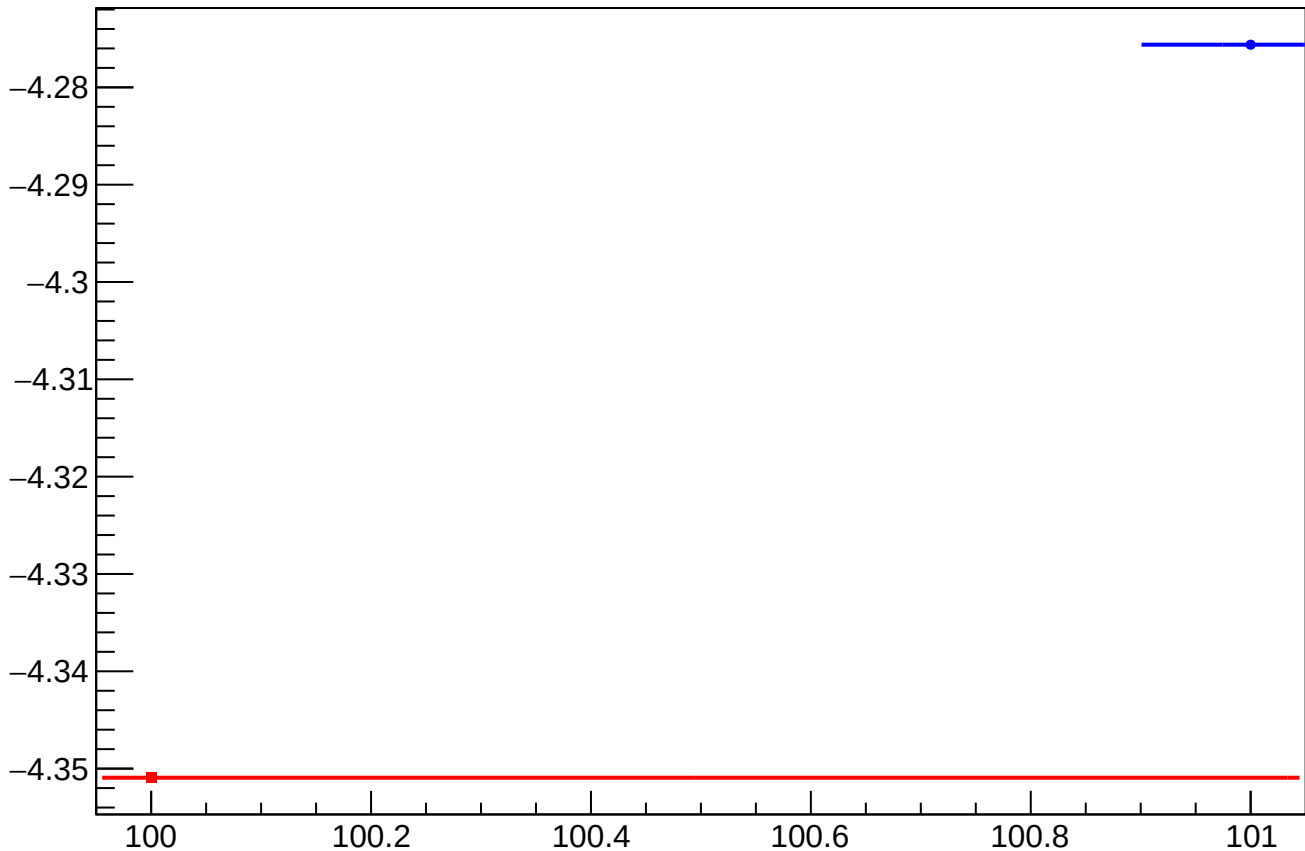
In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 800.1/1



# yield\_bpm2i01Y\_mean vs Slug, Sign Corrected



Right In: -4.276+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.351+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

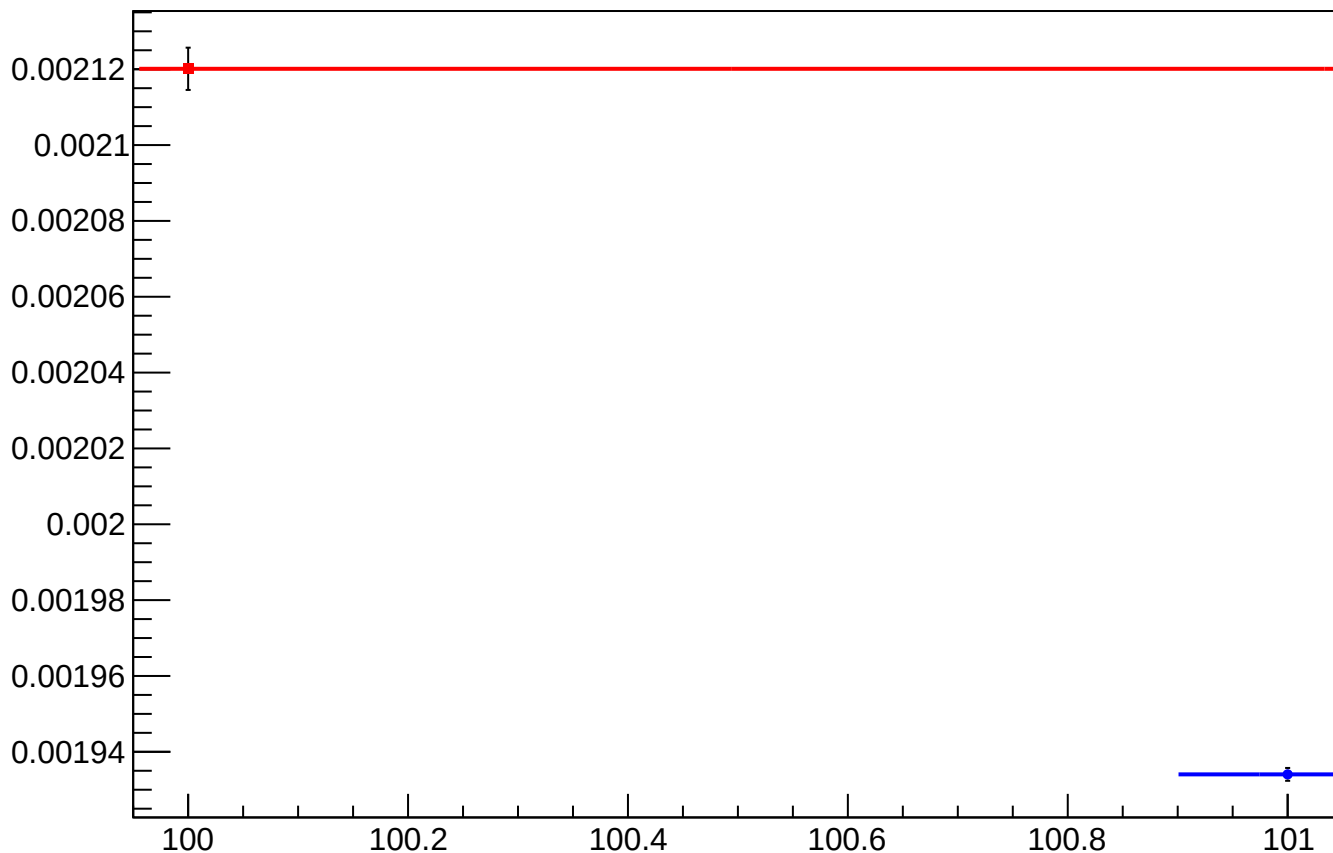
Right: -4.282+/-0.000  $\chi^2/\text{NDF}$ : 83597883.9/1

In: -4.276+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.282+/-0.000  $\chi^2/\text{NDF}$ : 83597883.9/1

# yield\_bpm2i01Y\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

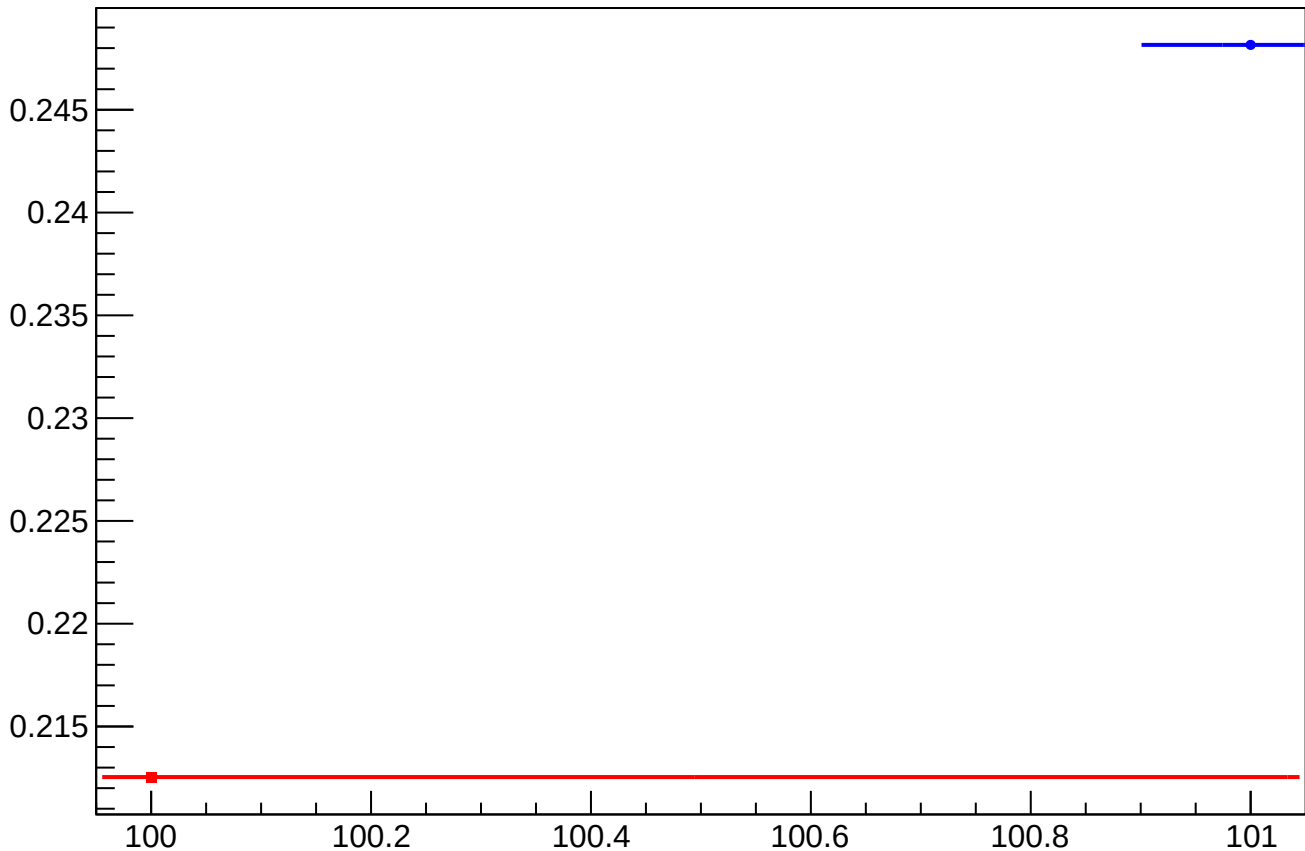
Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1020.3/1

In: 0.002+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1020.3/1

# yield\_bpm2i02X\_mean vs Slug, Sign Corrected



Right In: 0.248+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.213+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

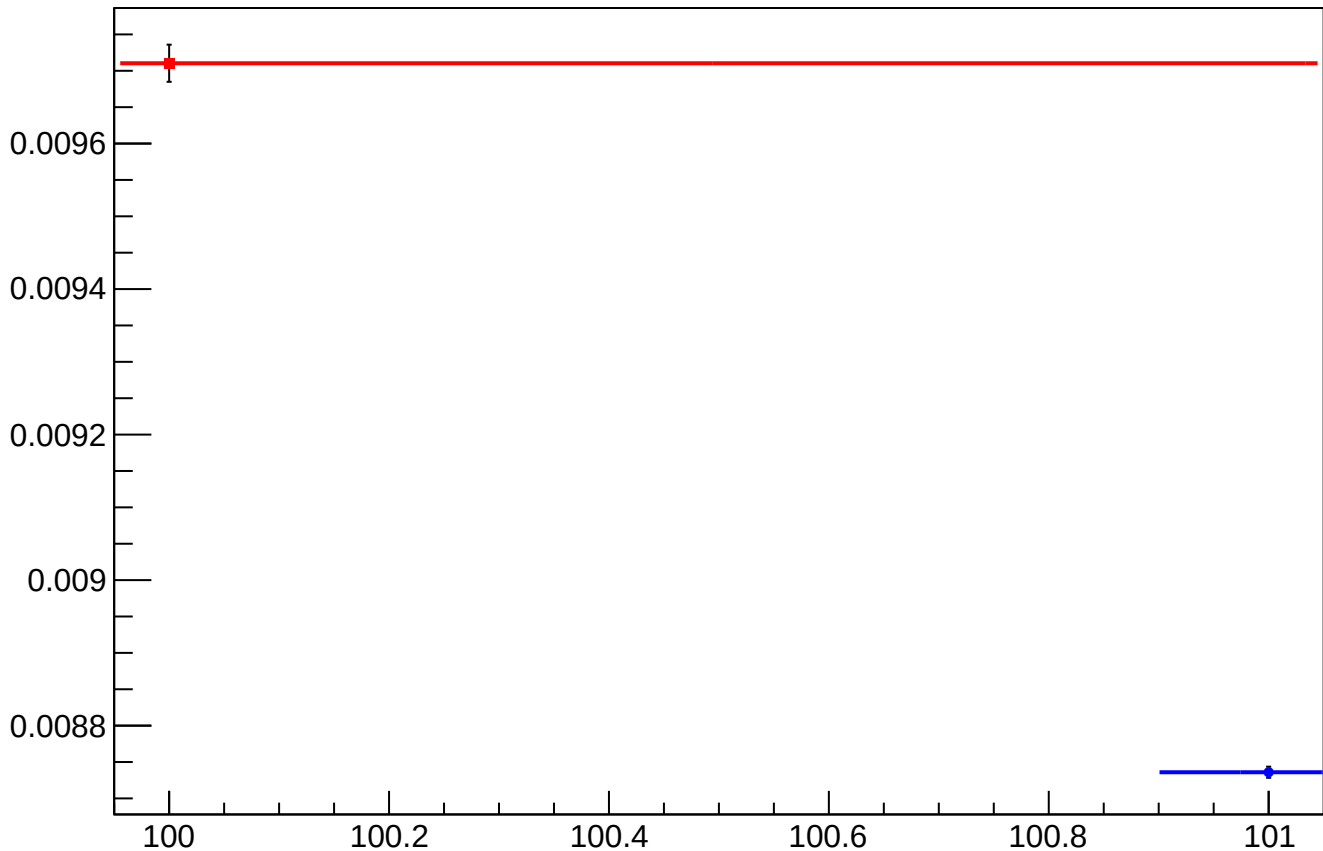
Right: 0.245+/-0.000  $\chi^2/\text{NDF}$ : 893996.2/1

In: 0.248+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.245+/-0.000  $\chi^2/\text{NDF}$ : 893996.2/1

# yield\_bpm2i02X\_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

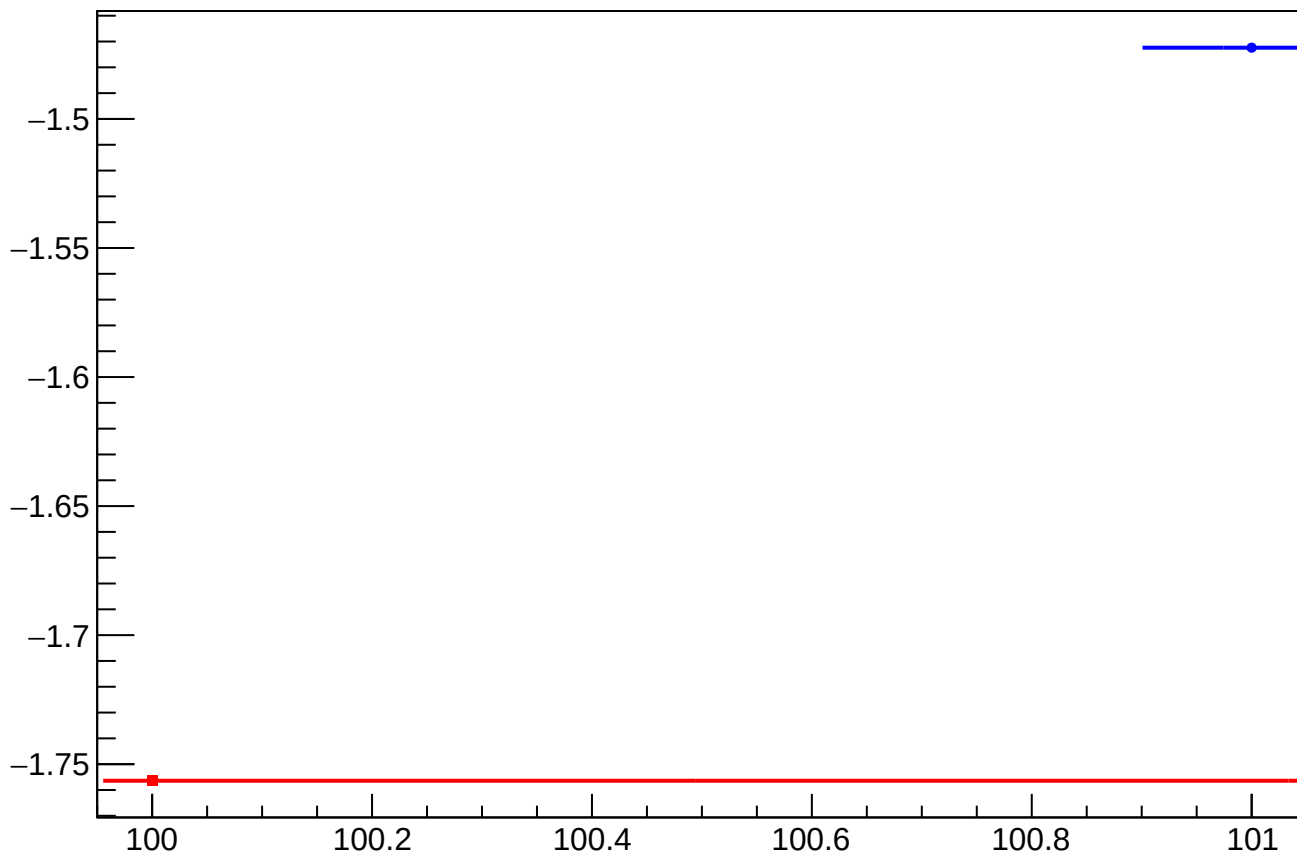
Right: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 1338.4/1

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 1338.4/1

# yield\_bpm2i02Y\_mean vs Slug, Sign Corrected



Right In: -1.472+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.756+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

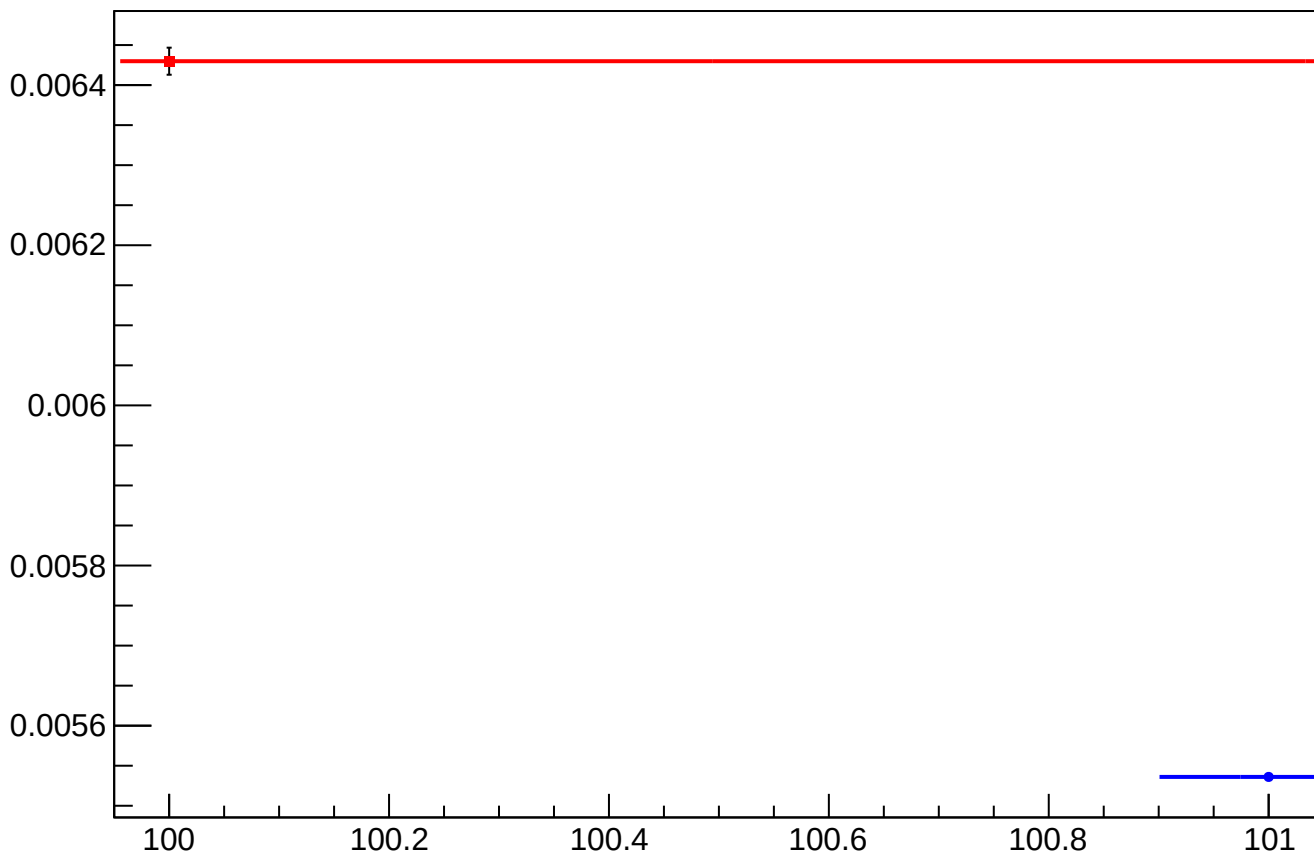
Right: -1.494+/-0.000  $\chi^2/\text{NDF}$ : 130507202.0/1

In: -1.472+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.494+/-0.000  $\chi^2/\text{NDF}$ : 130507202.0/1

# yield\_bpm2i02Y\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

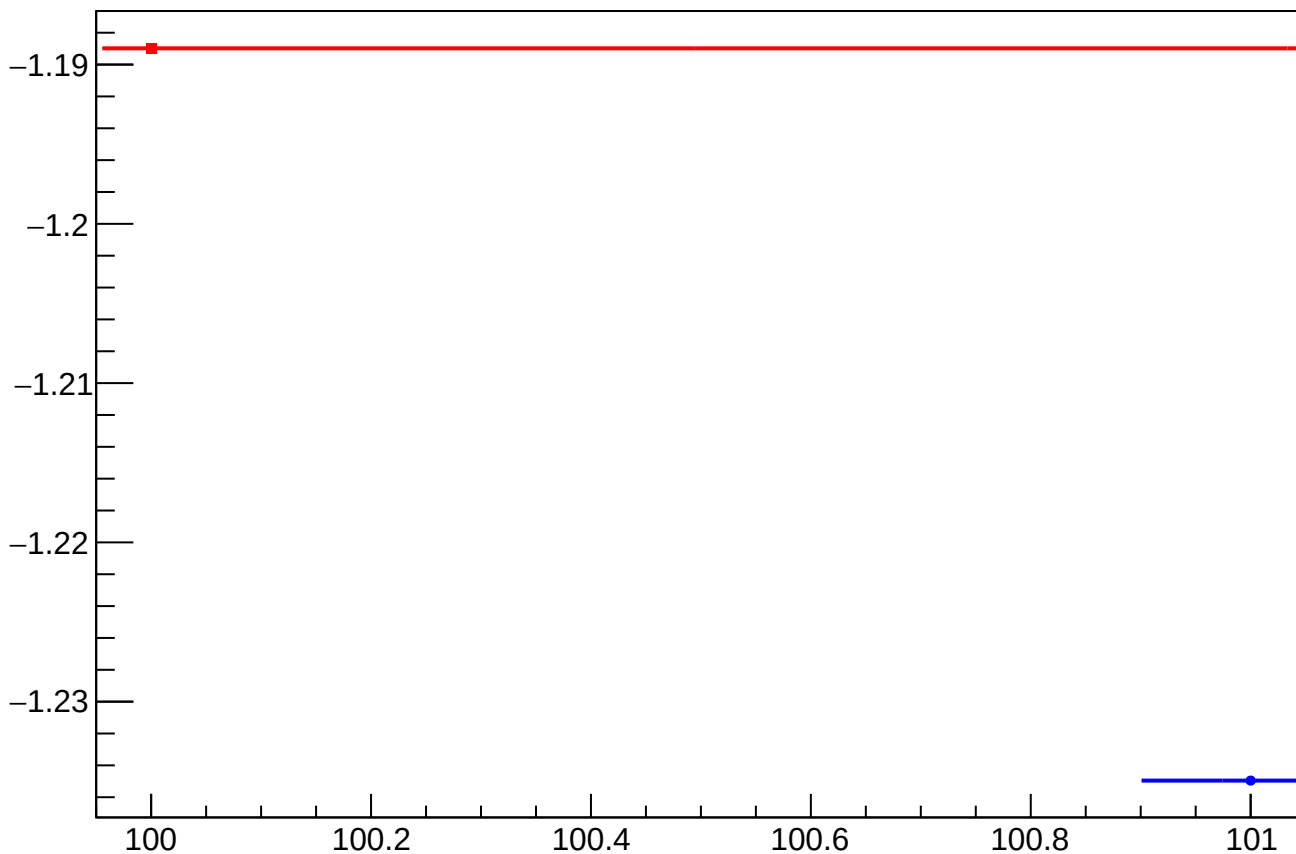
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2584.9/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2584.9/1

# yield\_bpm0i01X\_mean vs Slug, Sign Corrected



Right In: -1.235+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.189+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

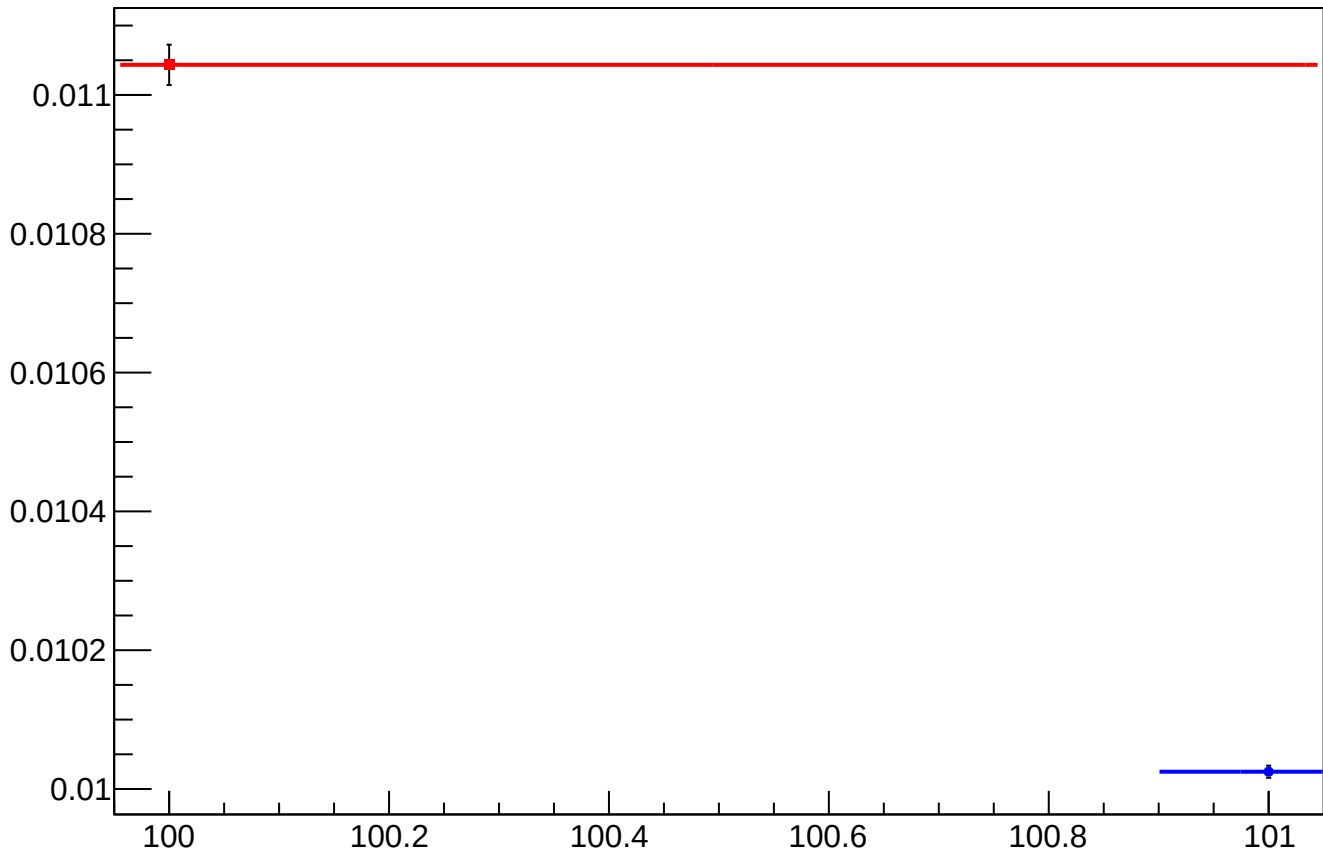
Right: -1.231+/-0.000  $\chi^2/\text{NDF}$ : 1147949.6/1

In: -1.235+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.231+/-0.000  $\chi^2/\text{NDF}$ : 1147949.6/1

# yield\_bpm0i01X\_rms vs Slug, Sign Corrected

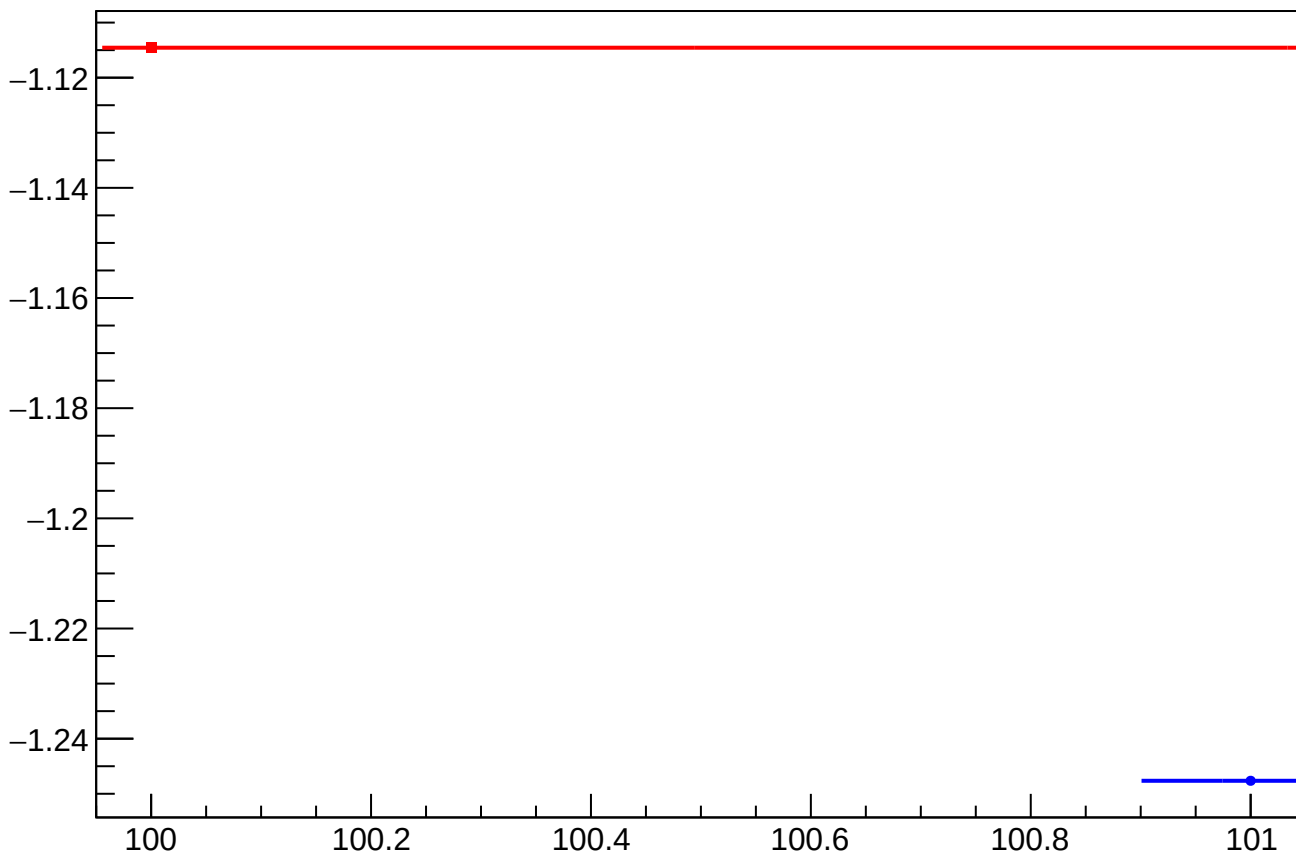


Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1126.7/1  
In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 1126.7/1



yield\_bpm0i01Y\_mean vs Slug, Sign Corrected



Right In: -1.248+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.115+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

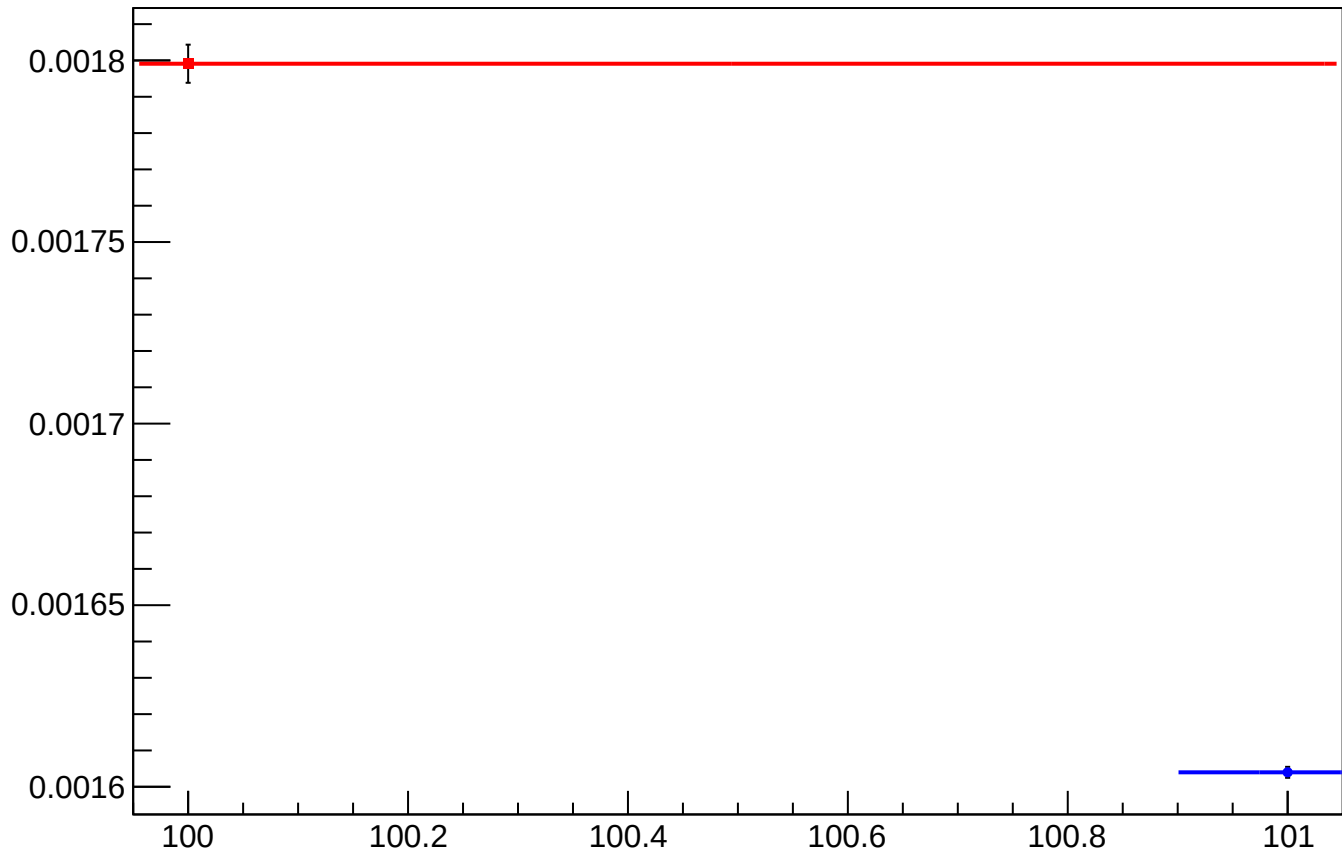
Right: -1.237+/-0.000  $\chi^2/\text{NDF}$ : 296965926.2/1

In: -1.248+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.237+/-0.000  $\chi^2/\text{NDF}$ : 296965926.2/1

# yield\_bpm0i01Y\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

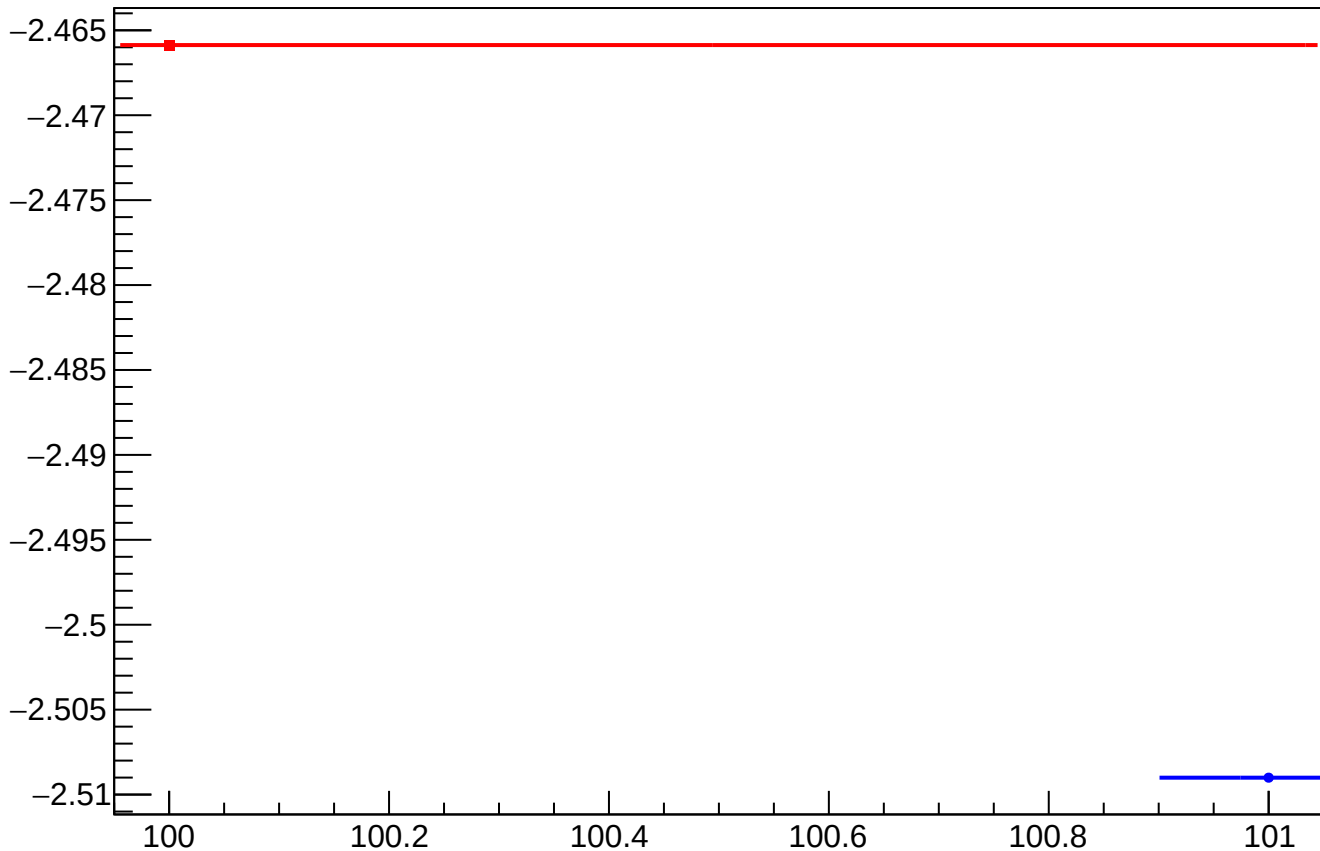
Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1276.7/1

In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1276.7/1

# yield\_bpm0i01aX\_mean vs Slug, Sign Corrected



Right In: -2.509 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -2.466 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

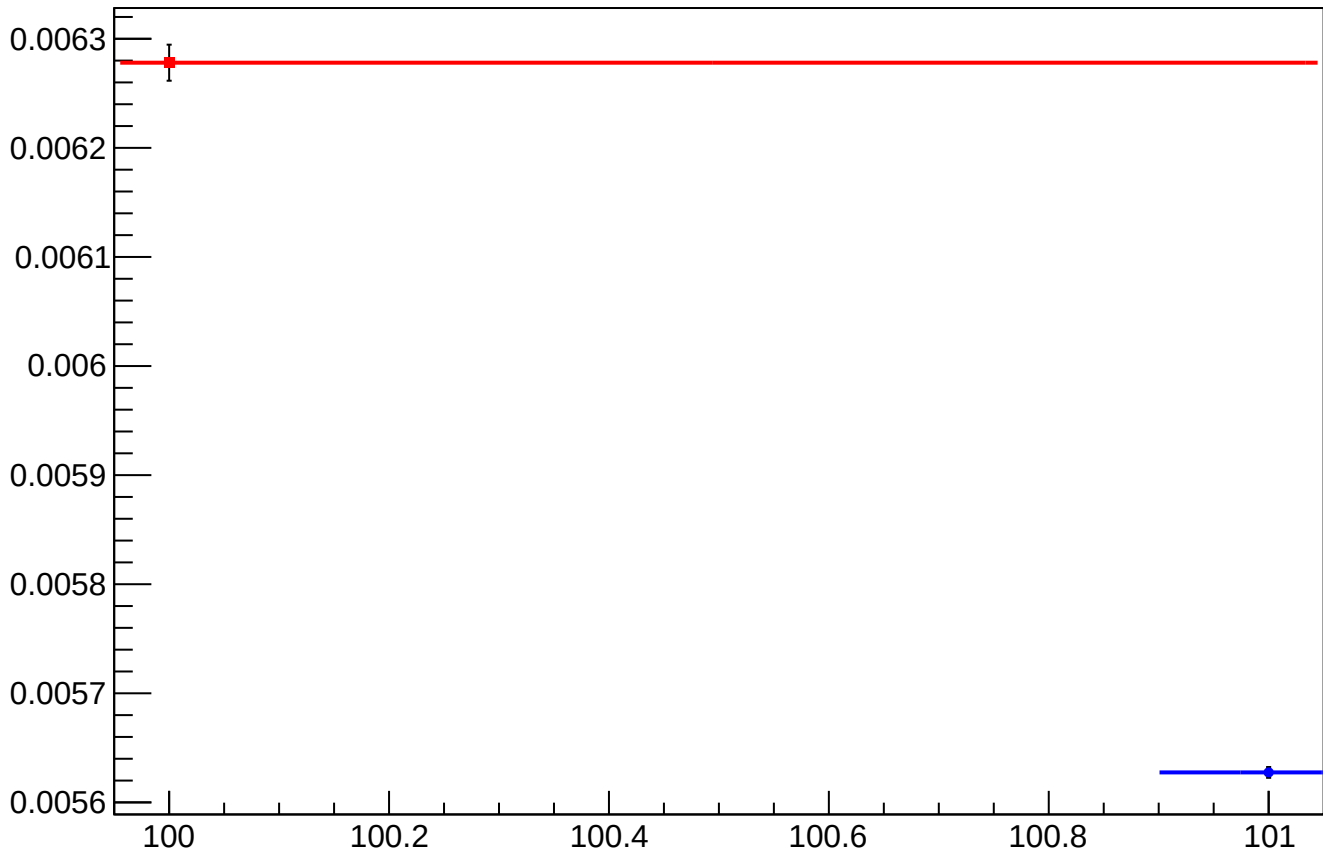
Right: -2.505 $\pm$ 0.000  $\chi^2$ /NDF: 3127628.7/1

In: -2.509 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -2.505 $\pm$ 0.000  $\chi^2$ /NDF: 3127628.7/1

# yield\_bpm0i01aX\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

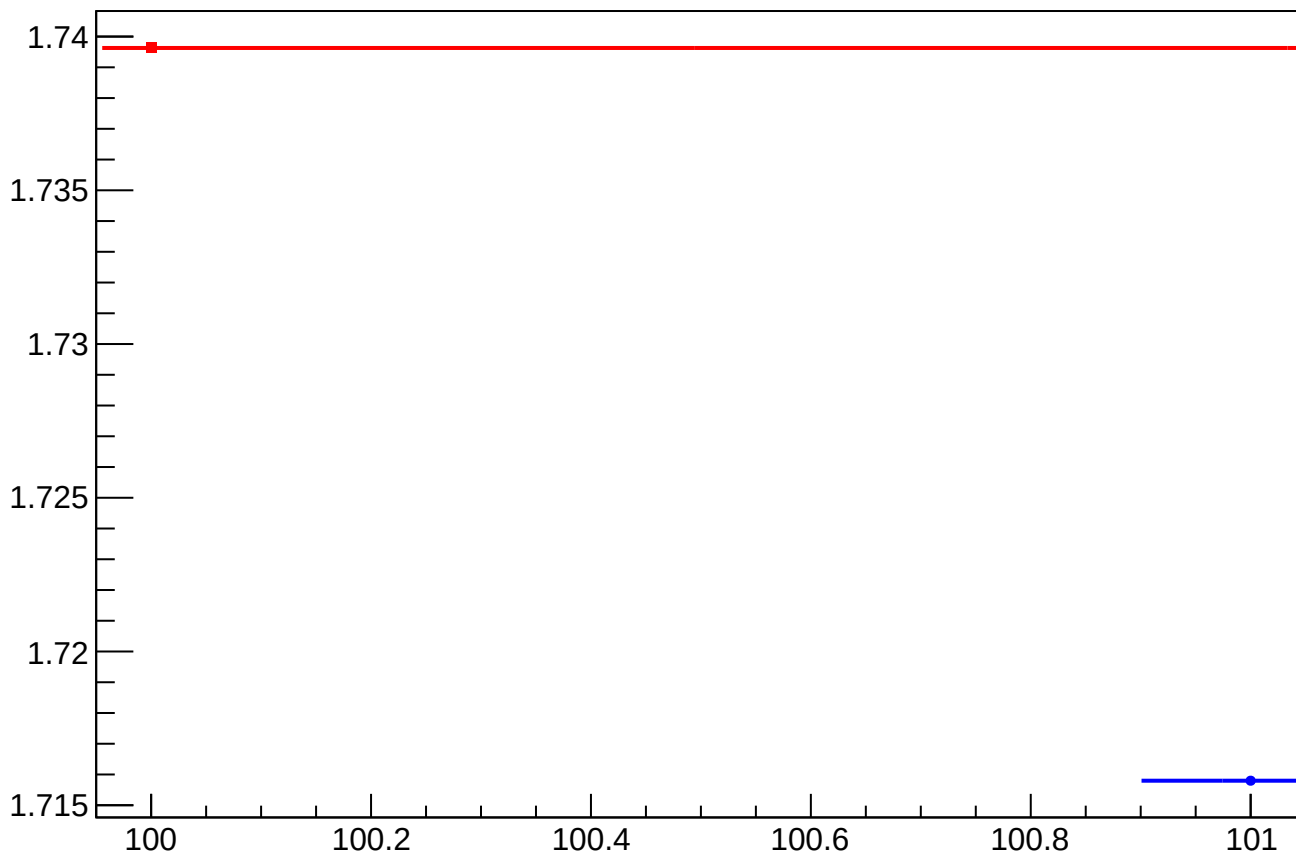
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1422.9/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1422.9/1

# yield\_bpm0i01aY\_mean vs Slug, Sign Corrected



Right In: 1.716+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.740+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

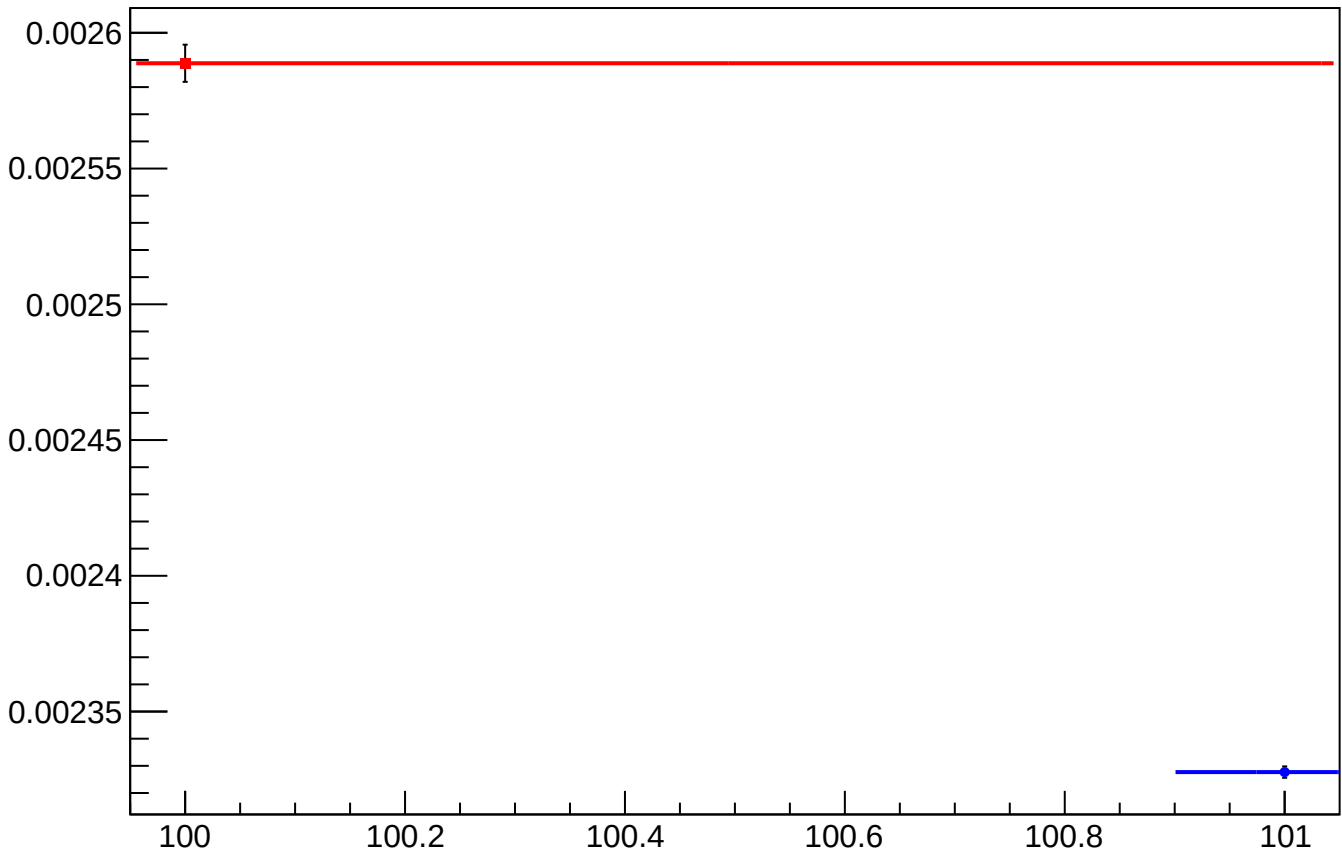
Right: 1.718+/-0.000  $\chi^2/\text{NDF}$ : 5541120.1/1

In: 1.716+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.718+/-0.000  $\chi^2/\text{NDF}$ : 5541120.1/1

# yield\_bpm0i01aY\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

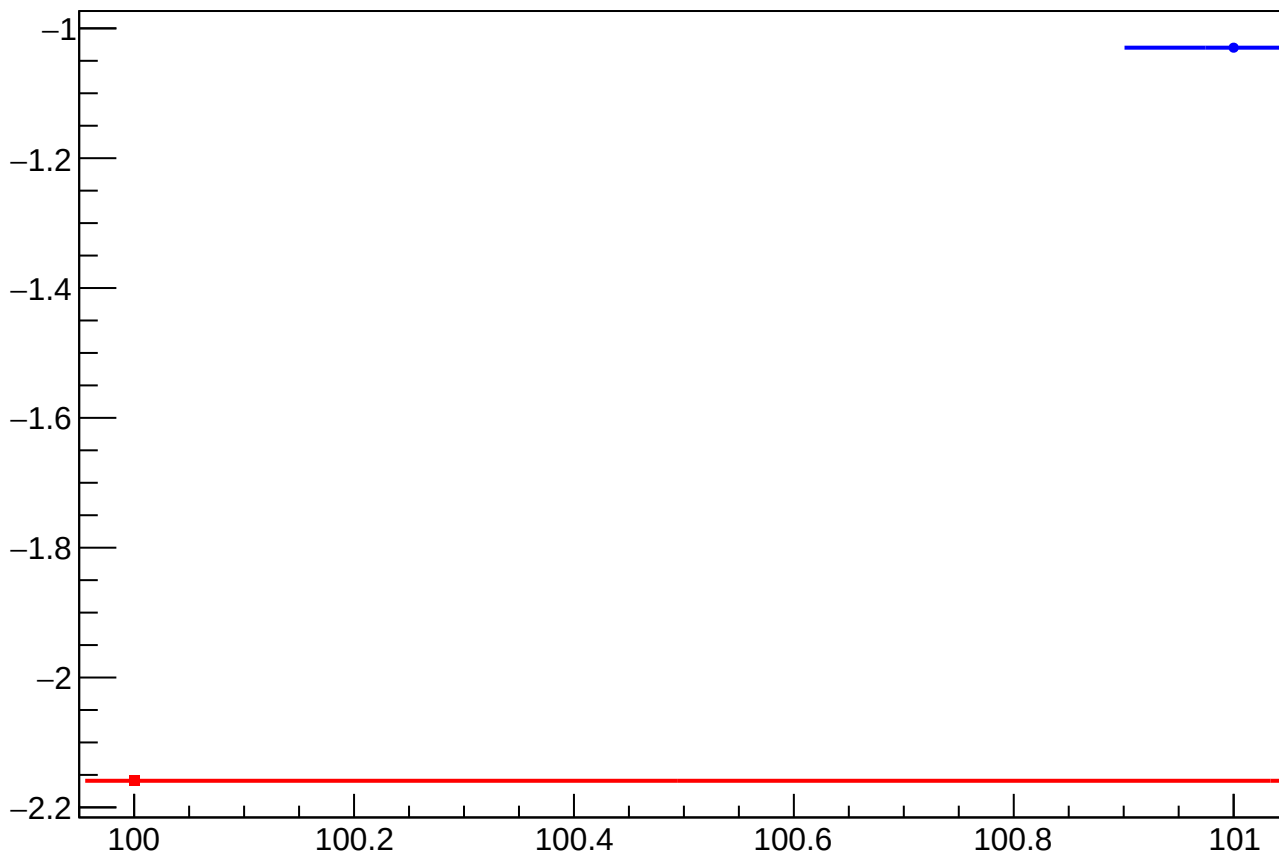
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1330.1/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1330.1/1

# yield\_bpm0l01X\_mean vs Slug, Sign Corrected



Right In: -1.030+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.159+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

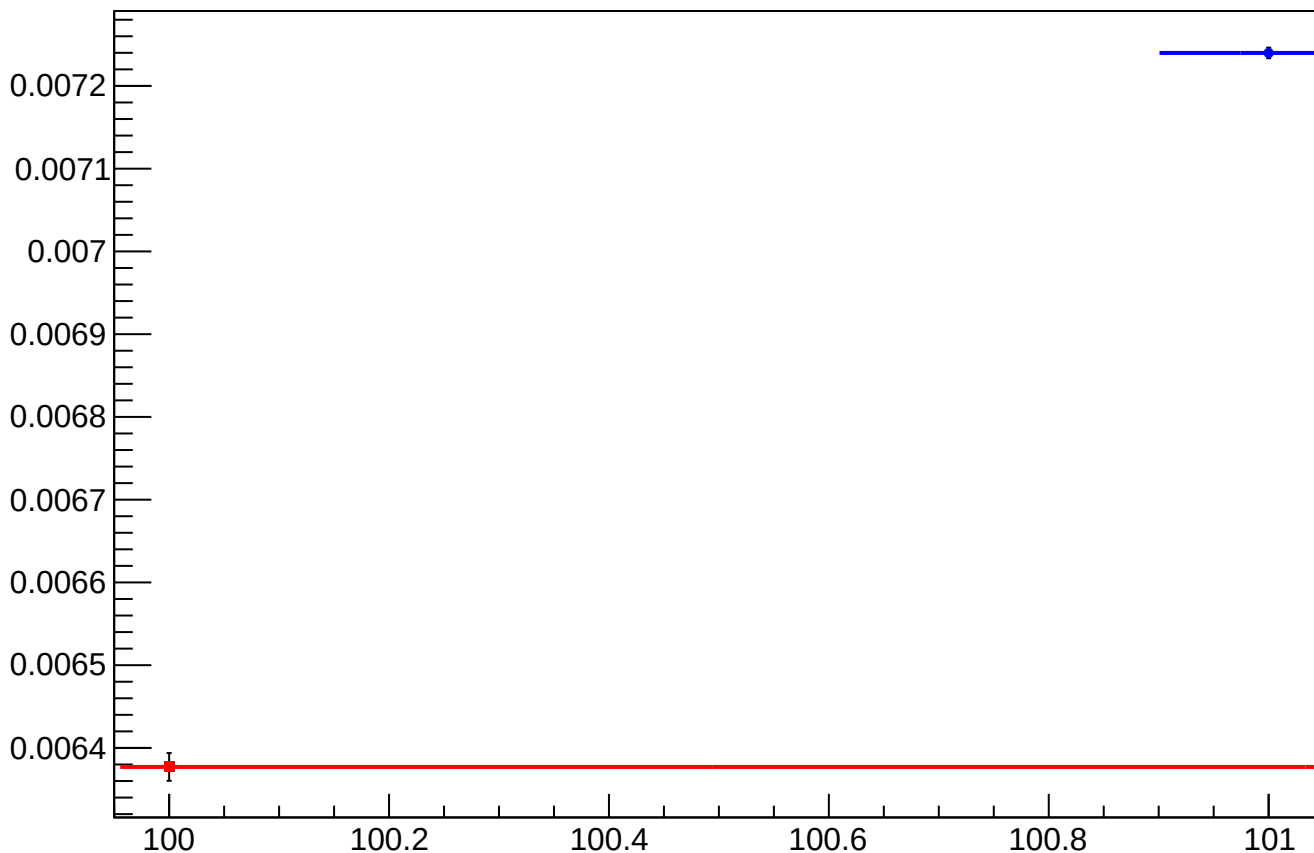
Right: -1.172+/-0.000  $\chi^2/\text{NDF}$ : 1982635191.3/1

In: -1.030+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.172+/-0.000  $\chi^2/\text{NDF}$ : 1982635191.3/1

# yield\_bpm0l01X\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2314.7/1

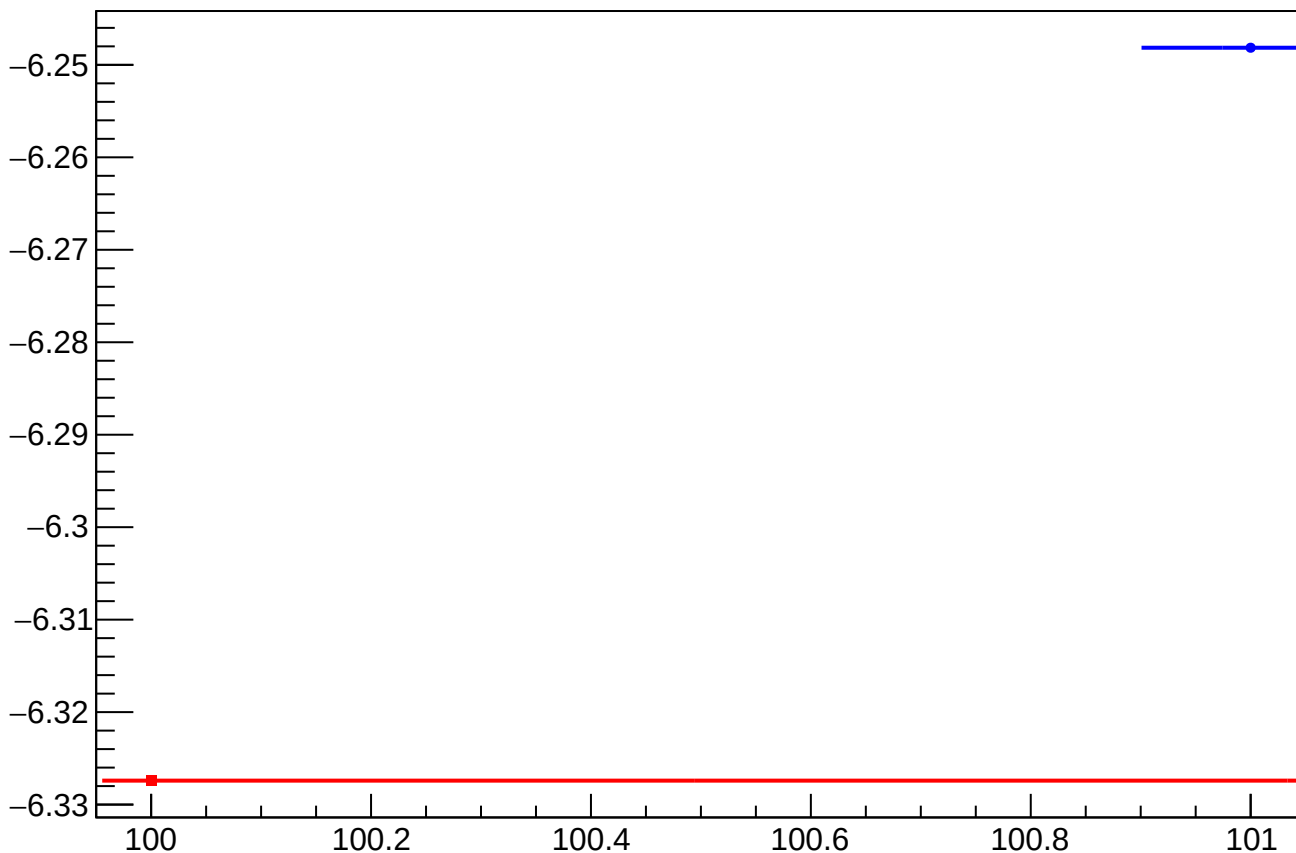
In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2314.7/1



# yield\_bpm0l01Y\_mean vs Slug, Sign Corrected



Right In: -6.248+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.327+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

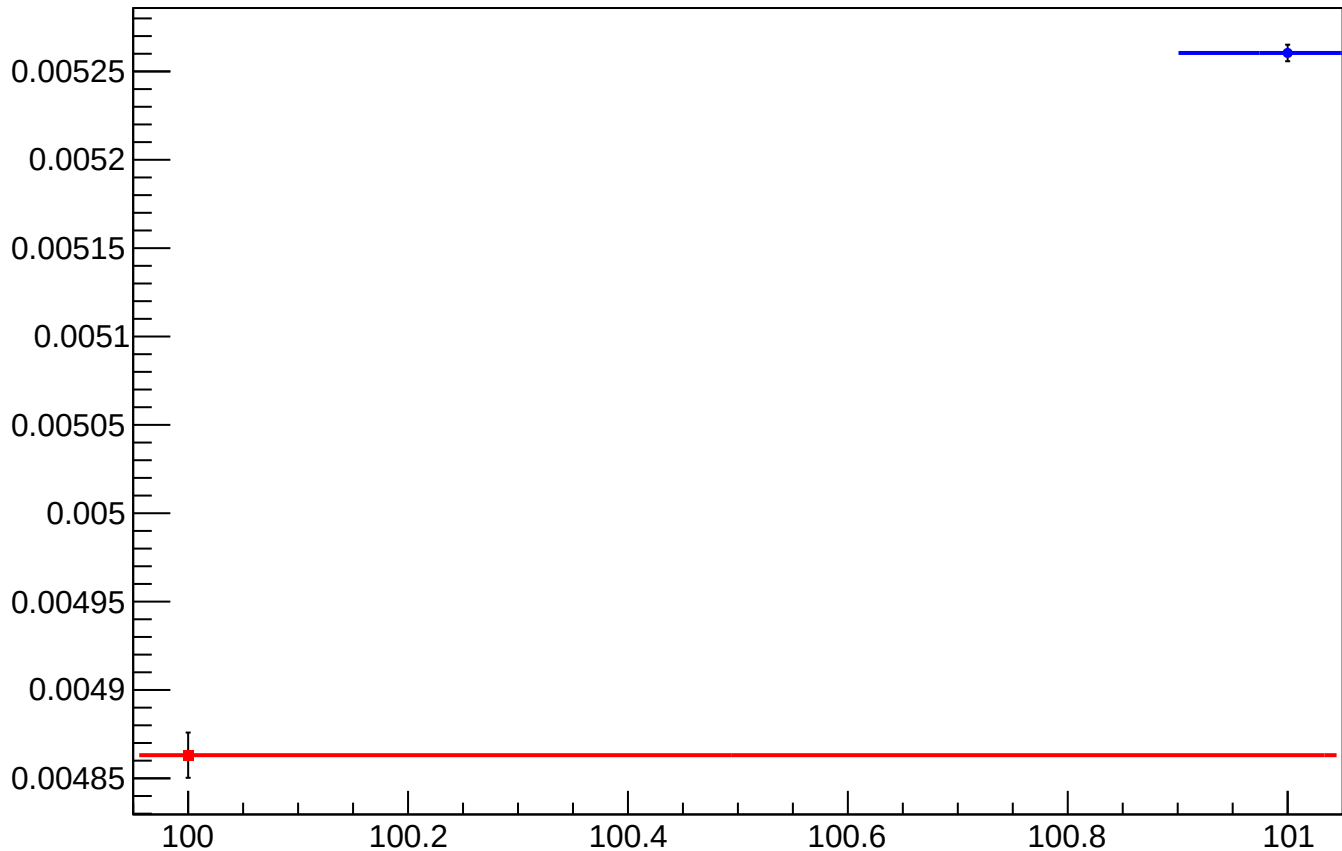
Right: -6.258+/-0.000  $\chi^2/\text{NDF}$ : 16899774.2/1

In: -6.248+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.258+/-0.000  $\chi^2/\text{NDF}$ : 16899774.2/1

# yield\_bpm0l01Y\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

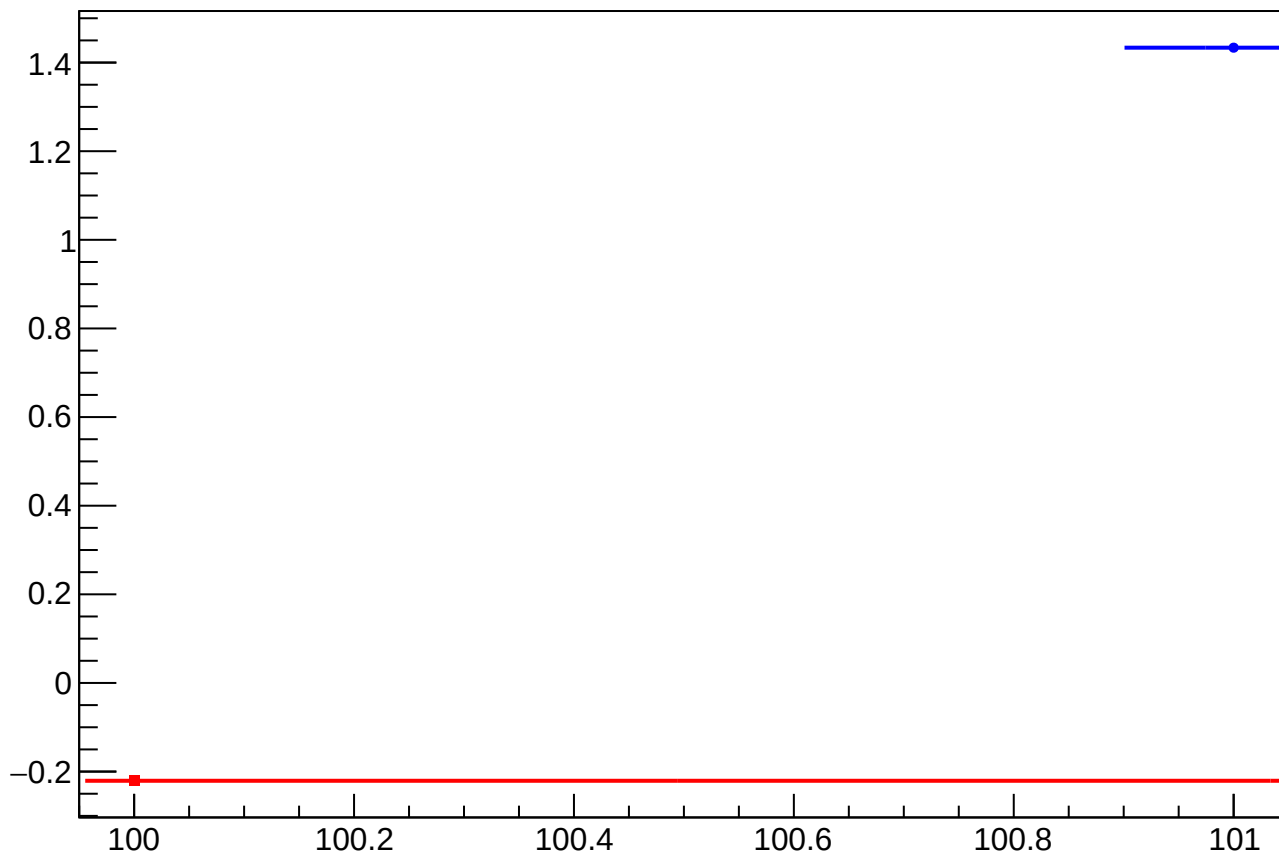
Right: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 849.4/1

In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 849.4/1

# yield\_bpm0l02X\_mean vs Slug, Sign Corrected



Right In: 1.434+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.221+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

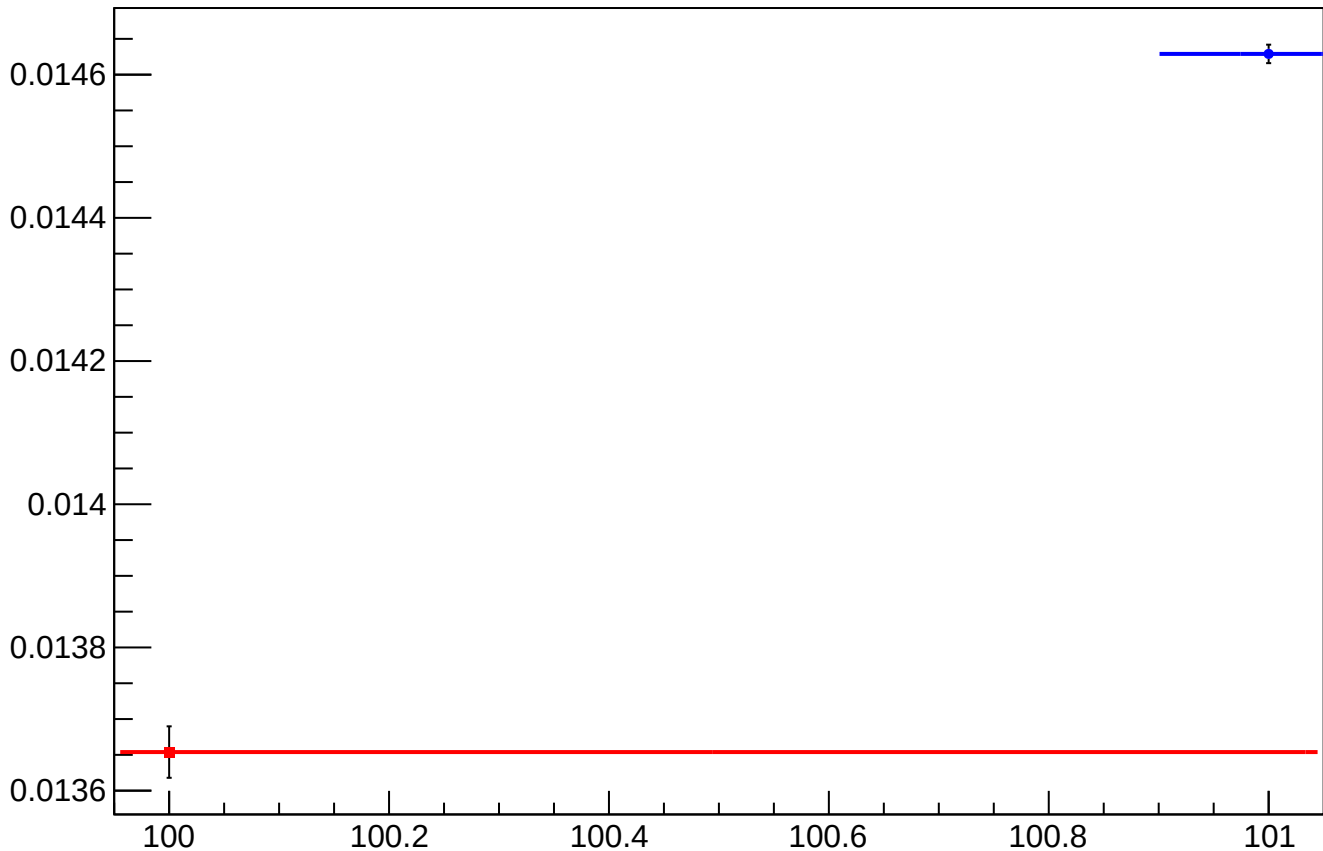
Right: 1.245+/-0.000  $\chi^2/\text{NDF}$ : 938506156.3/1

In: 1.434+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.245+/-0.000  $\chi^2/\text{NDF}$ : 938506156.3/1

# yield\_bpm0l02X\_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

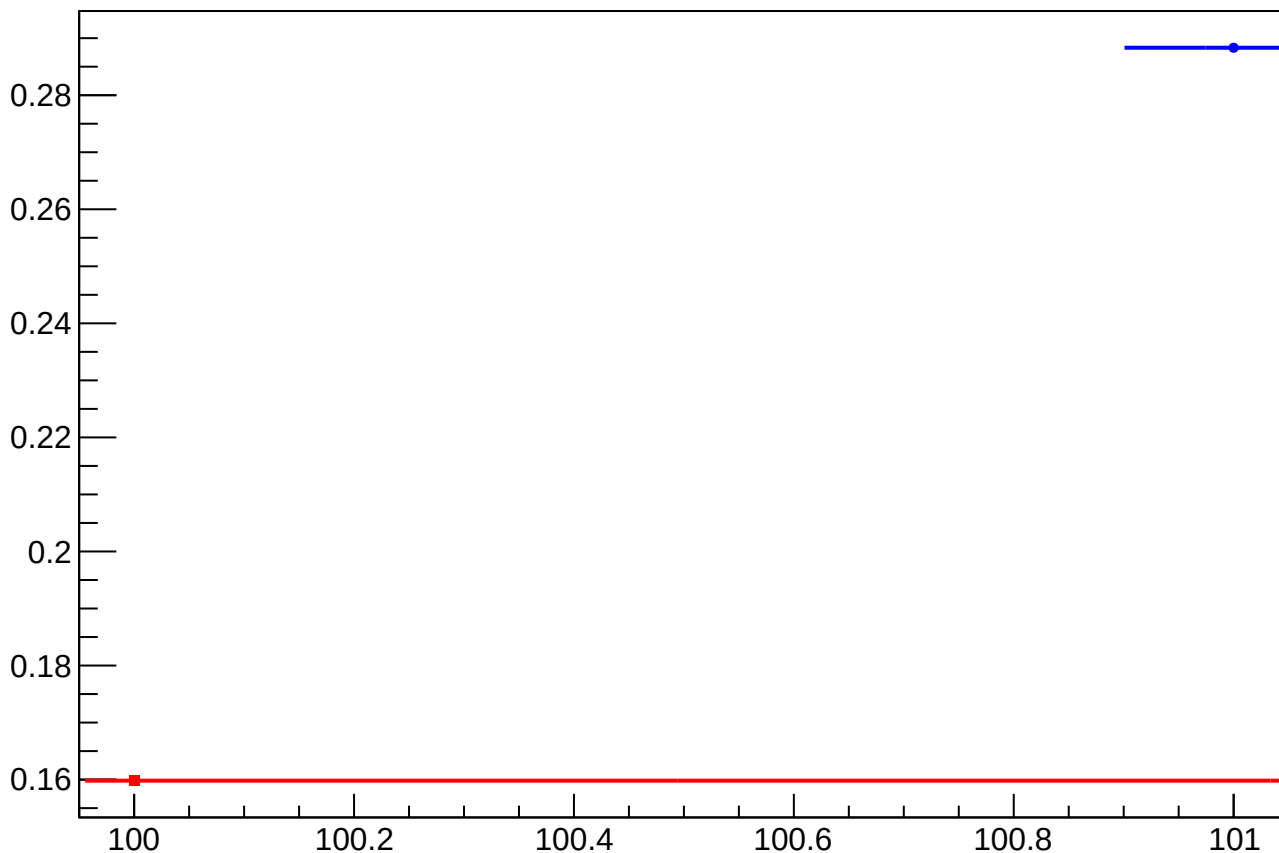
Right: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 652.1/1

In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 652.1/1

# yield\_bpm0l02Y\_mean vs Slug, Sign Corrected



Right In: 0.288+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.160+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

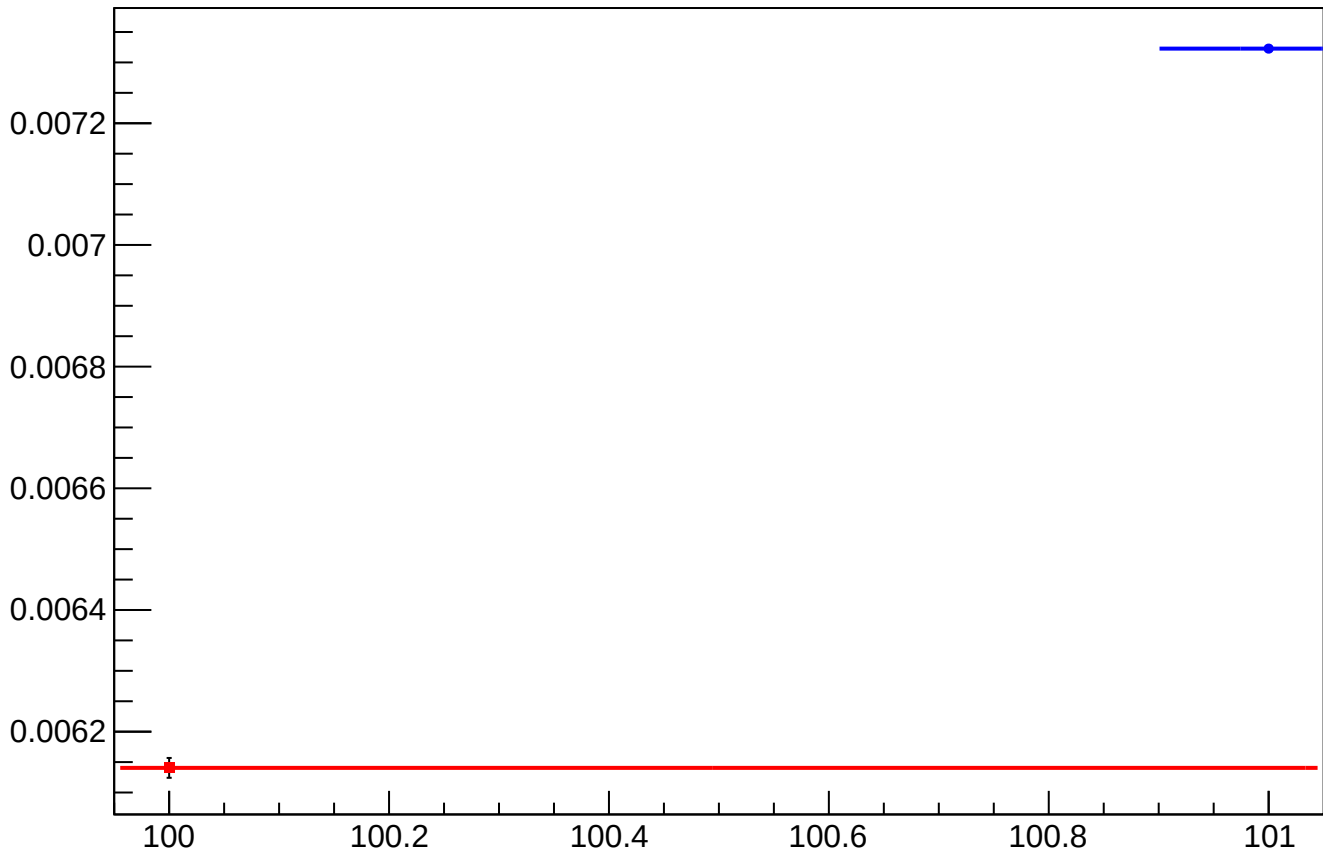
Right: 0.271+/-0.000  $\chi^2/\text{NDF}$ : 26805675.6/1

In: 0.288+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.271+/-0.000  $\chi^2/\text{NDF}$ : 26805675.6/1

# yield\_bpm0l02Y\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

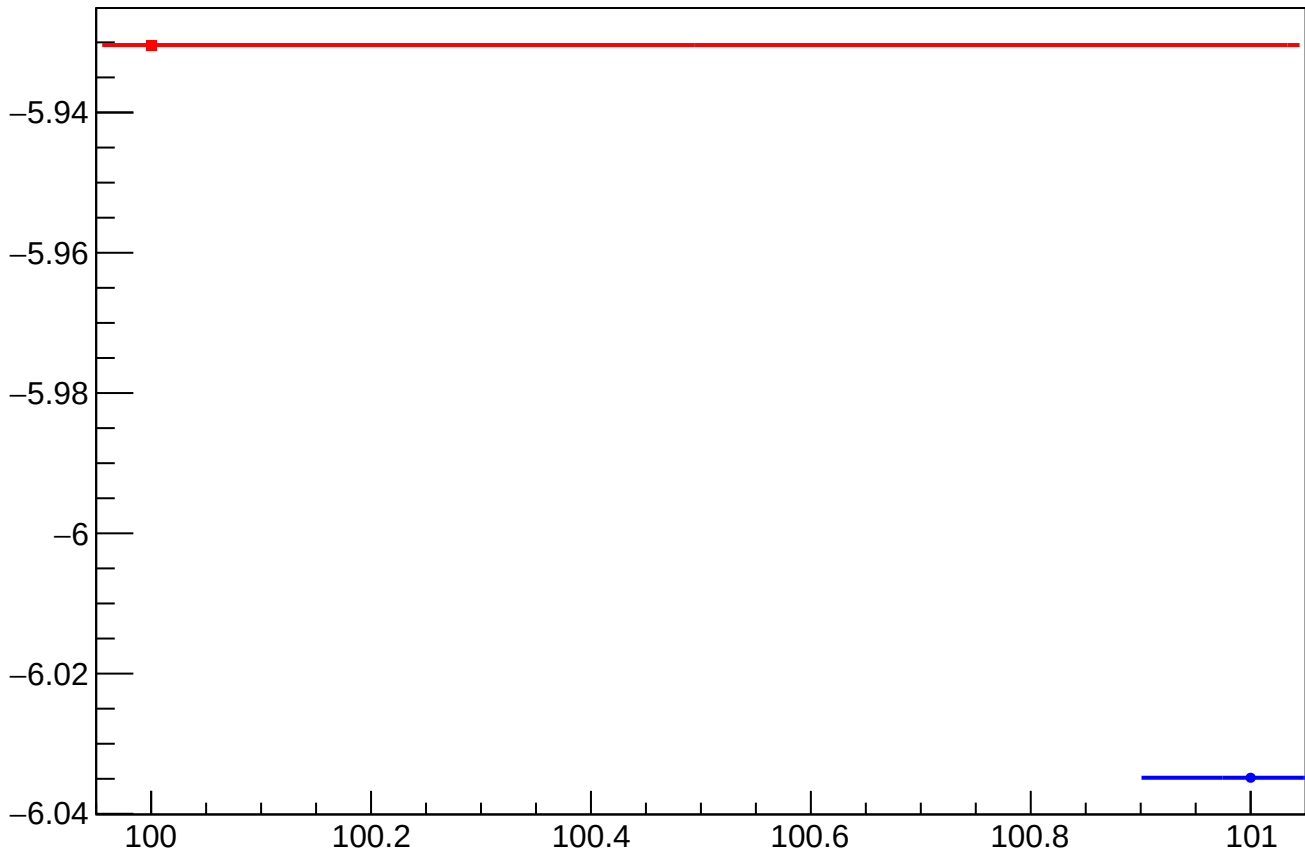
Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 4537.0/1

In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 4537.0/1

# yield\_bpm0l03X\_mean vs Slug, Sign Corrected



Right In: -6.035+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.930+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

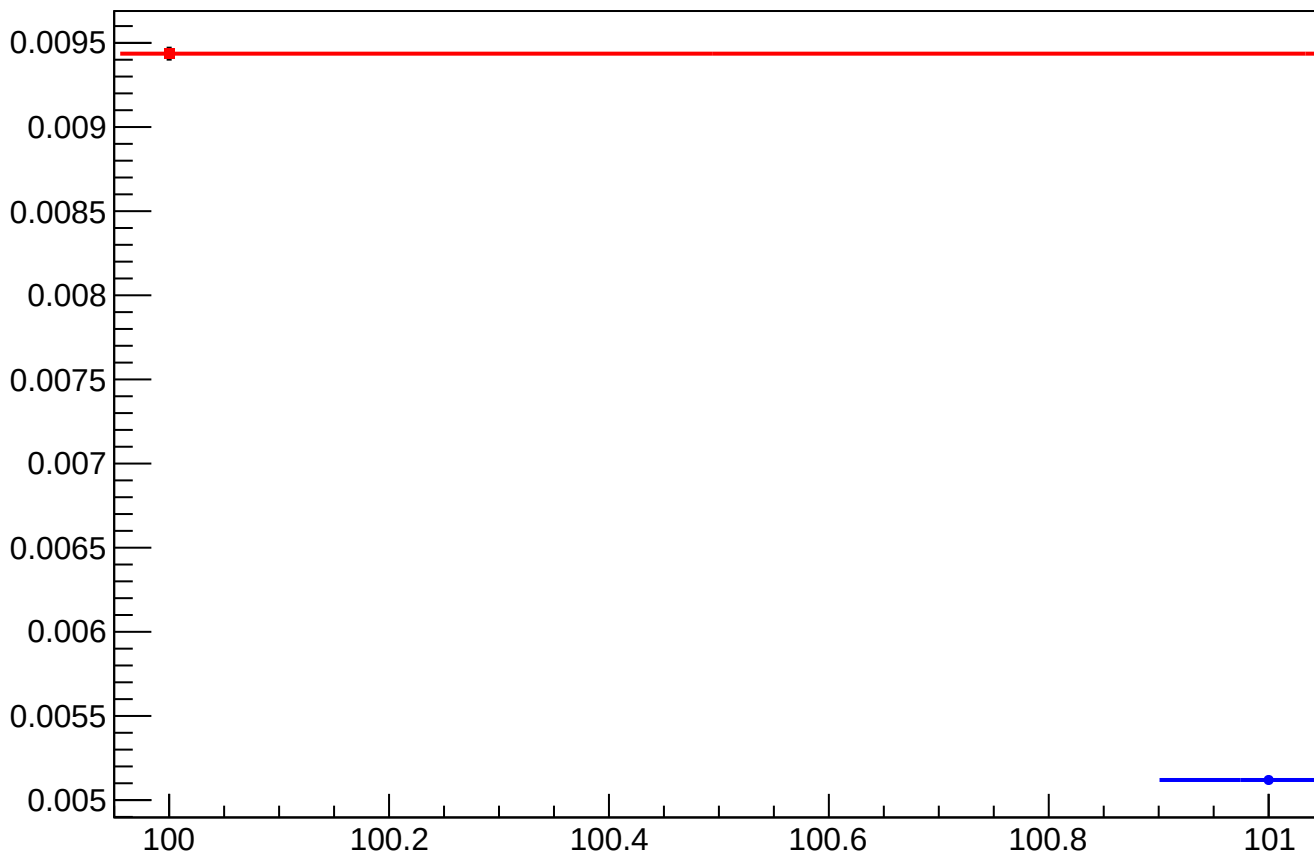
Right: -6.033+/-0.000  $\chi^2/\text{NDF}$ : 4230020.6/1

In: -6.035+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.033+/-0.000  $\chi^2/\text{NDF}$ : 4230020.6/1

# yield\_bpm0l03X\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.009+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.005+/-0.000  $\chi^2$ /NDF: 14444.1/1

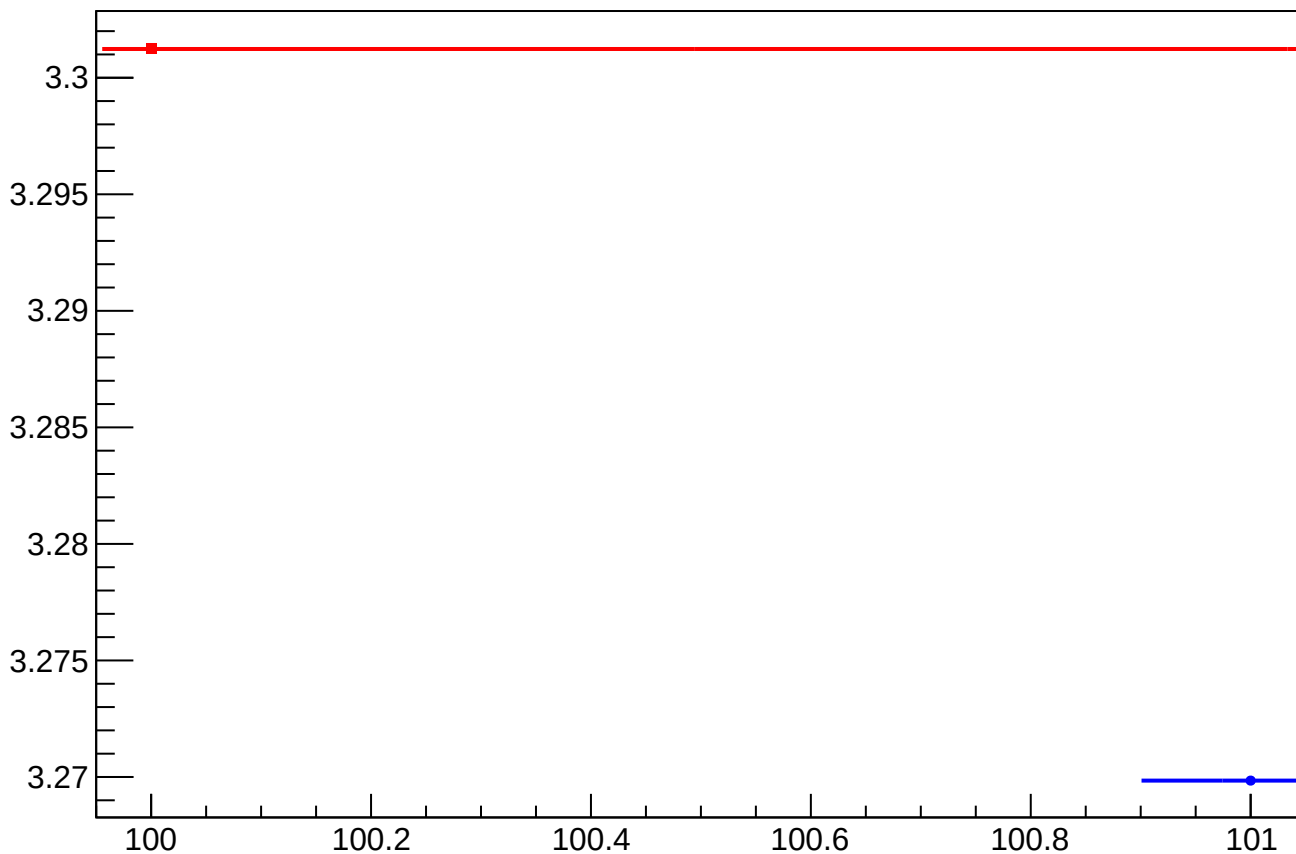
In: 0.005+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.005+/-0.000  $\chi^2$ /NDF: 14444.1/1



# yield\_bpm0l03Y\_mean vs Slug, Sign Corrected



Right In: 3.270+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.301+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

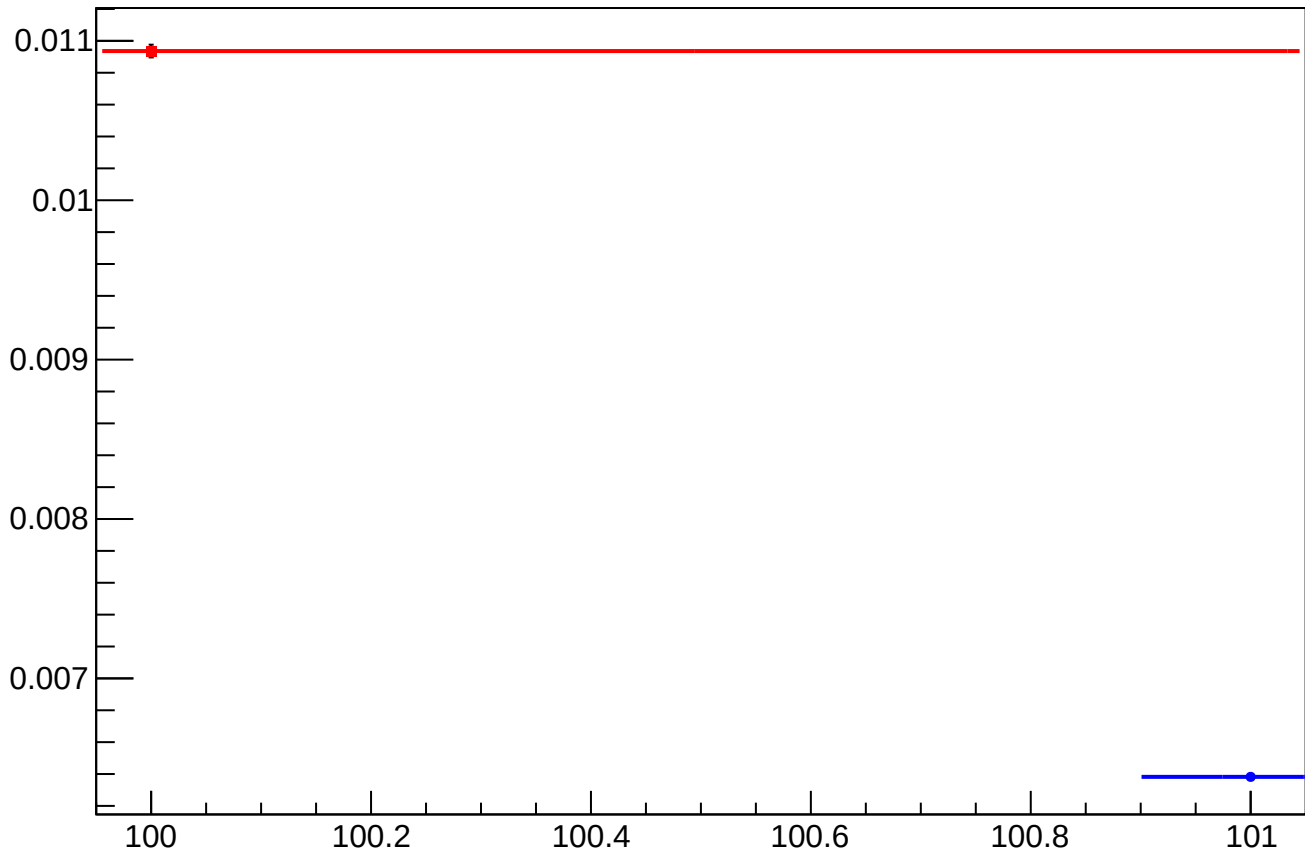
Right: 3.271+/-0.000  $\chi^2/\text{NDF}$ : 301565.4/1

In: 3.270+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.271+/-0.000  $\chi^2/\text{NDF}$ : 301565.4/1

# yield\_bpm0l03Y\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

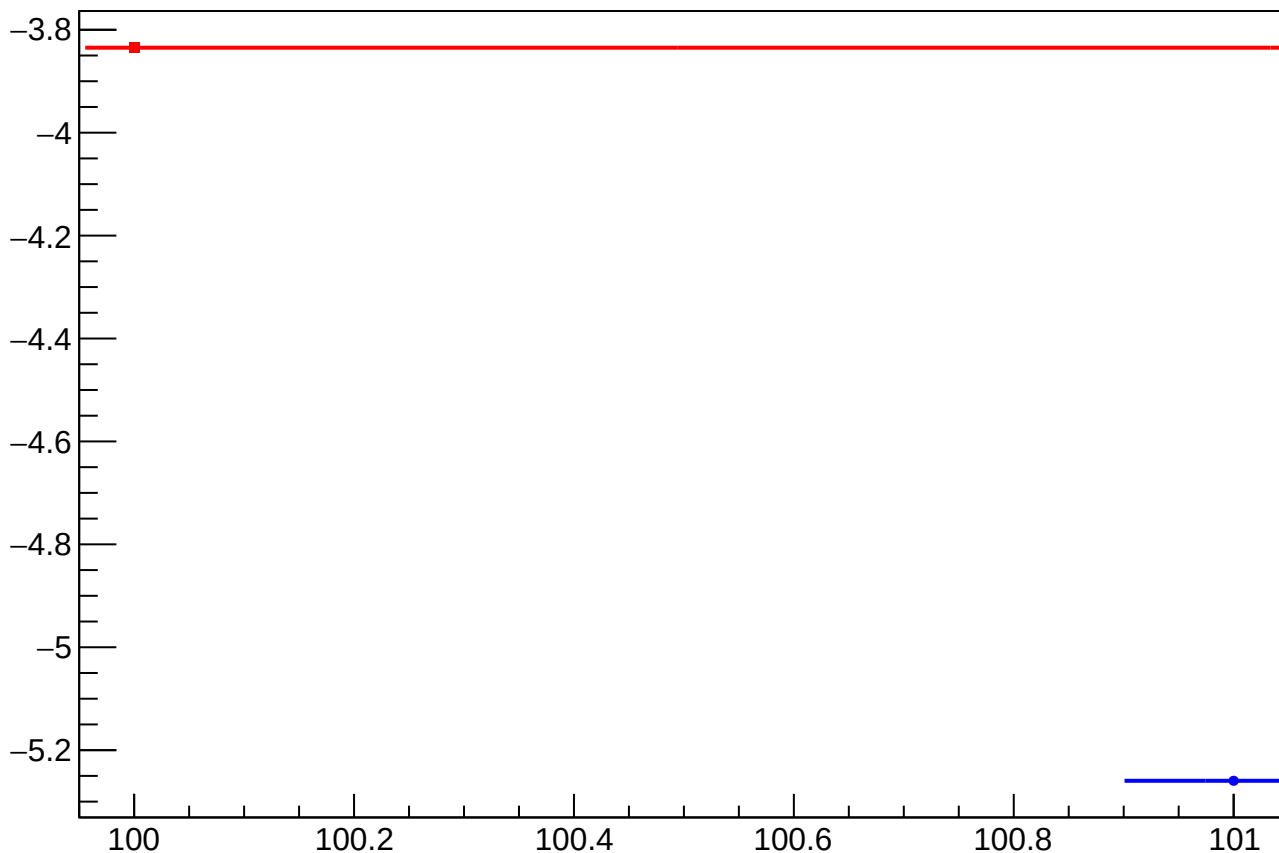
Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 12694.5/1

In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 12694.5/1

# yield\_bpm0l04X\_mean vs Slug, Sign Corrected



Right In: -5.260+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.835+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

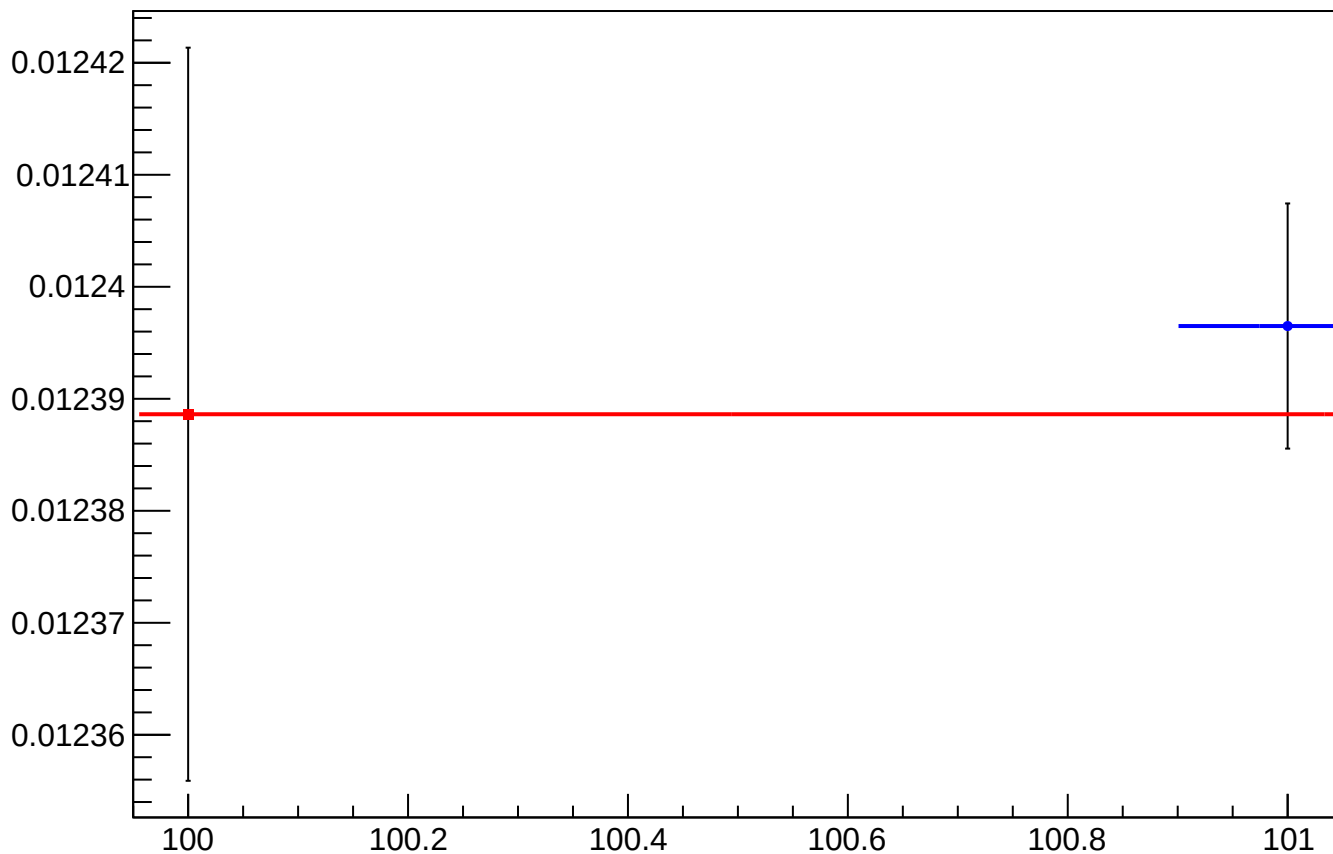
Right: -5.116+/-0.000  $\chi^2/\text{NDF}$ : 852237518.2/1

In: -5.260+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.116+/-0.000  $\chi^2/\text{NDF}$ : 852237518.2/1

# yield\_bpm0l04X\_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

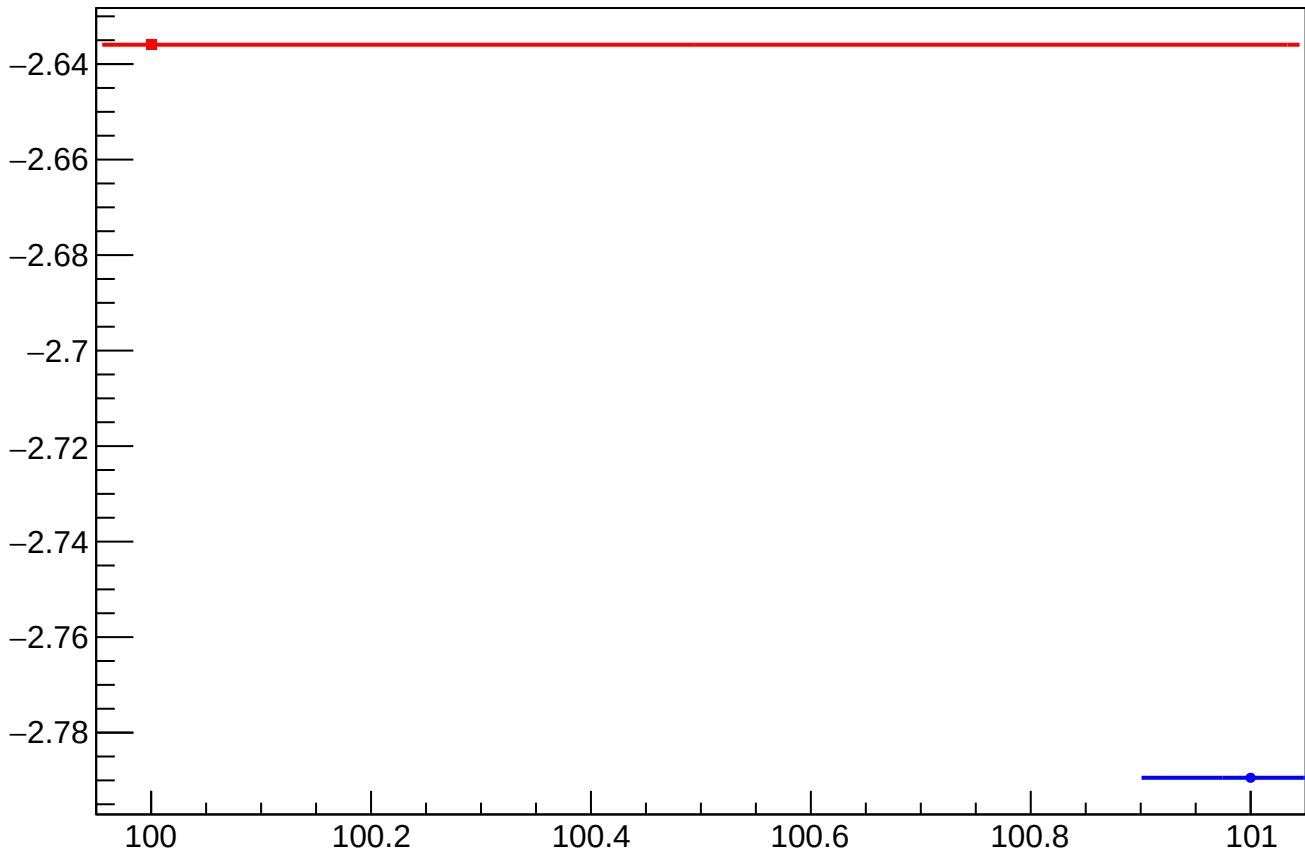
Right: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

# yield\_bpm0l04Y\_mean vs Slug, Sign Corrected



Right In:  $-2.789 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2.636 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

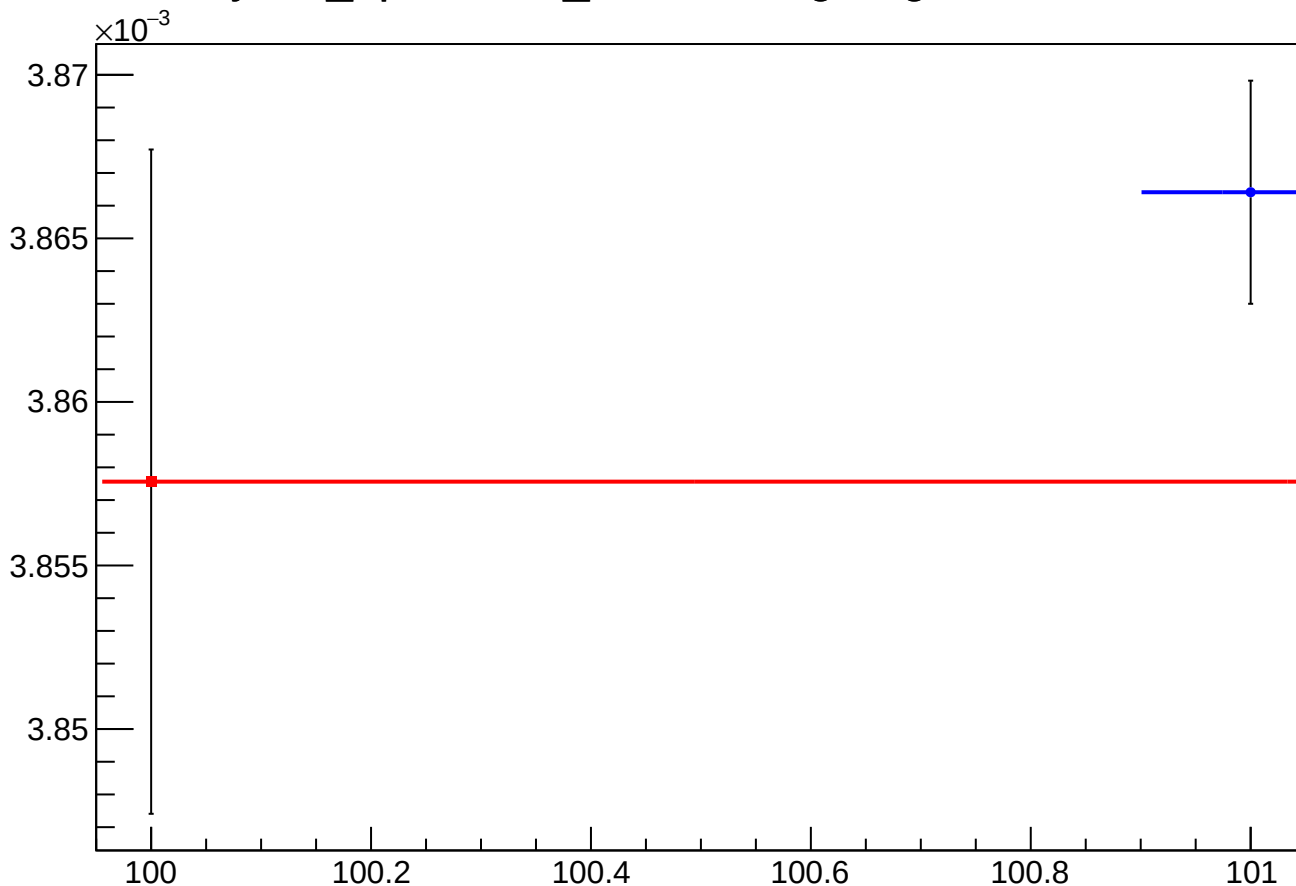
Right:  $-2.774 \pm 0.000$   $\chi^2/\text{NDF}$ : 102677891.7/1

In:  $-2.789 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2.774 \pm 0.000$   $\chi^2/\text{NDF}$ : 102677891.7/1

# yield\_bpm0l04Y\_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

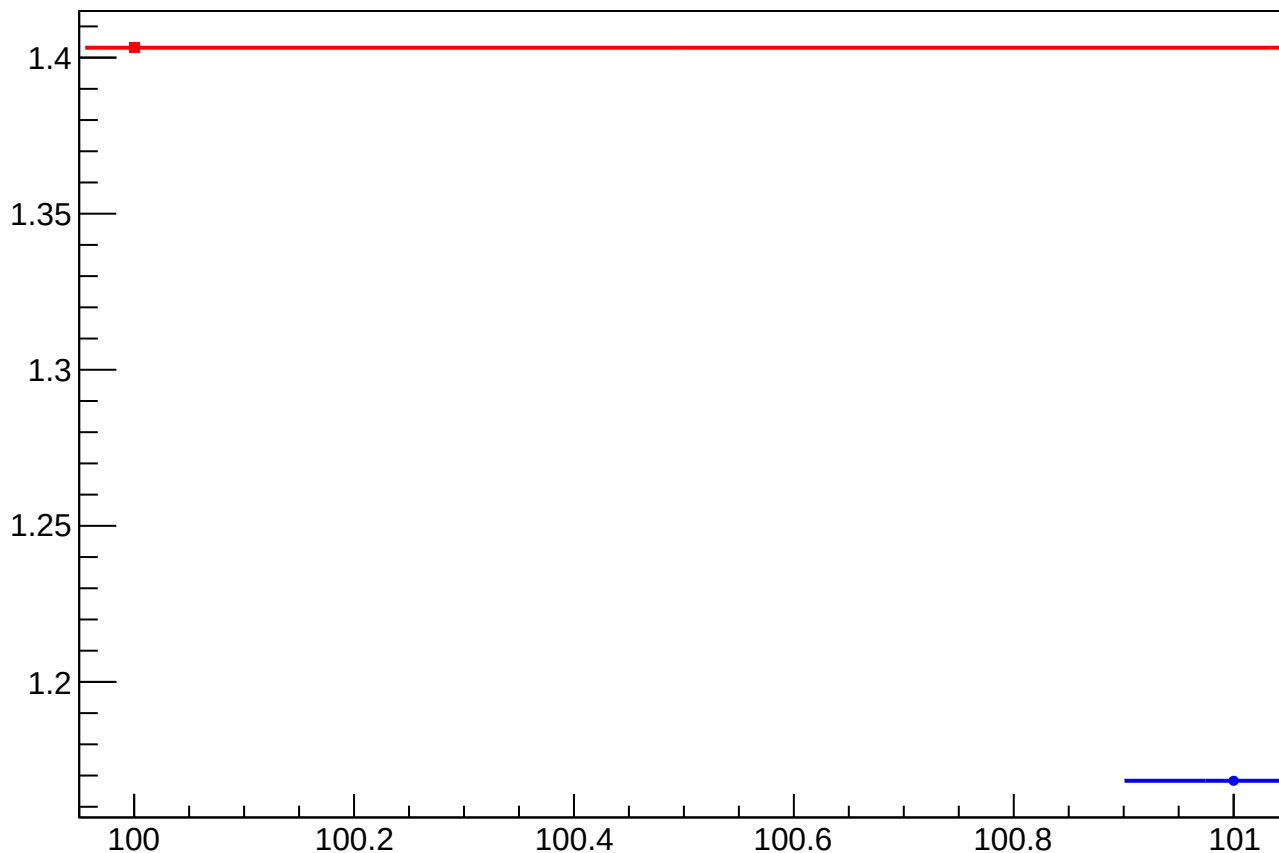
Right: 0.004 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.004 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.7/1

# yield\_bpm0l05X\_mean vs Slug, Sign Corrected



Right In: 1.168+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.403+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

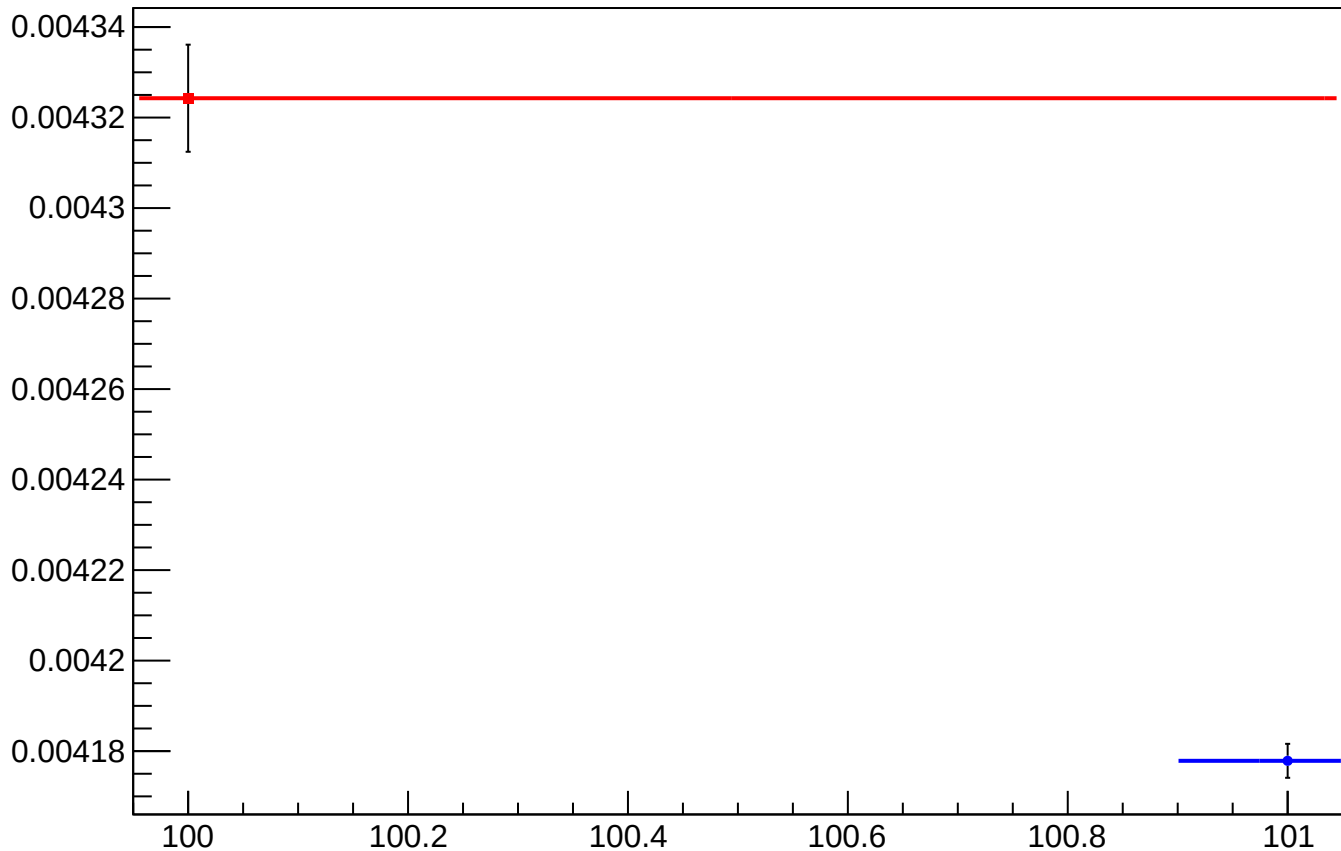
Right: 1.190+/-0.000  $\chi^2/\text{NDF}$ : 178925940.2/1

In: 1.168+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.190+/-0.000  $\chi^2/\text{NDF}$ : 178925940.2/1

# yield\_bpm0l05X\_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 139.1/1

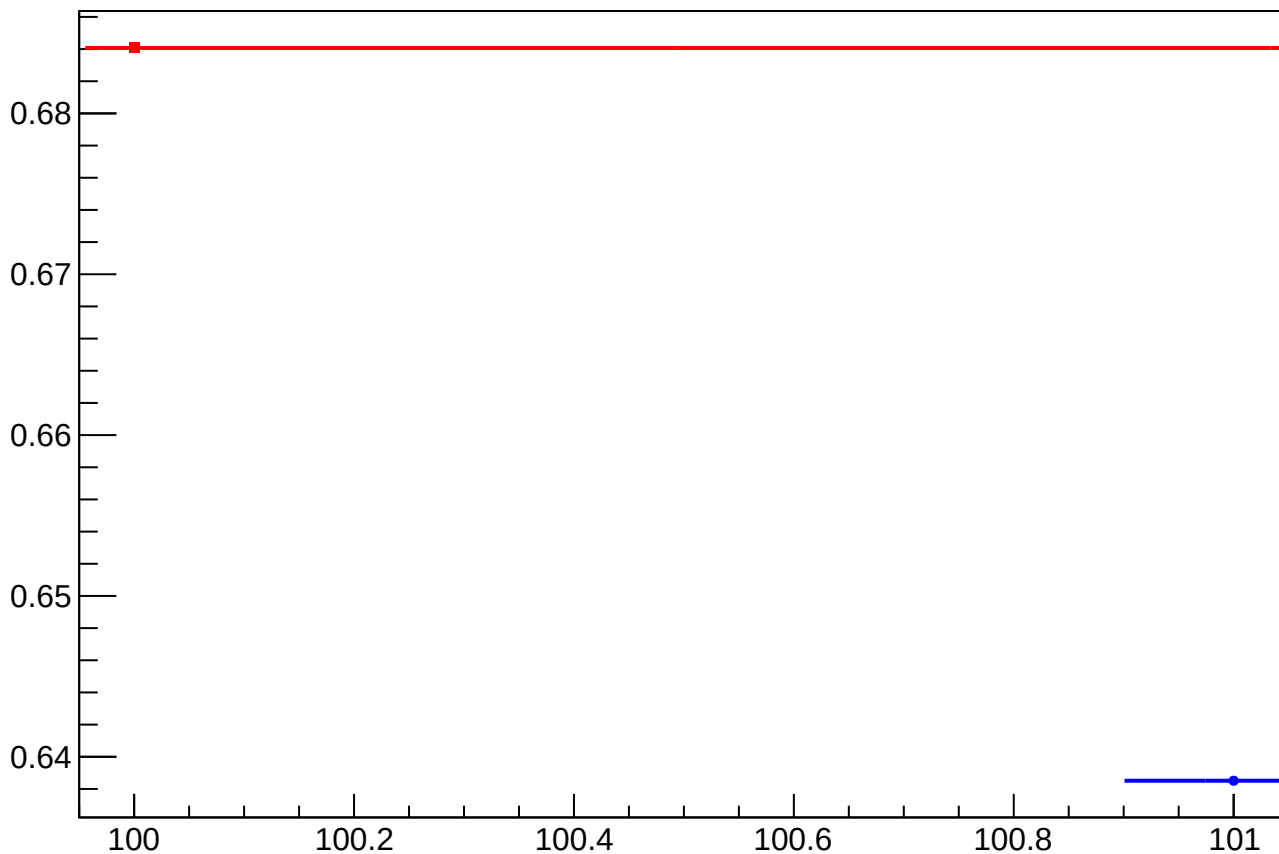
In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 139.1/1



# yield\_bpm0l05Y\_mean vs Slug, Sign Corrected



Right In: 0.639+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.684+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

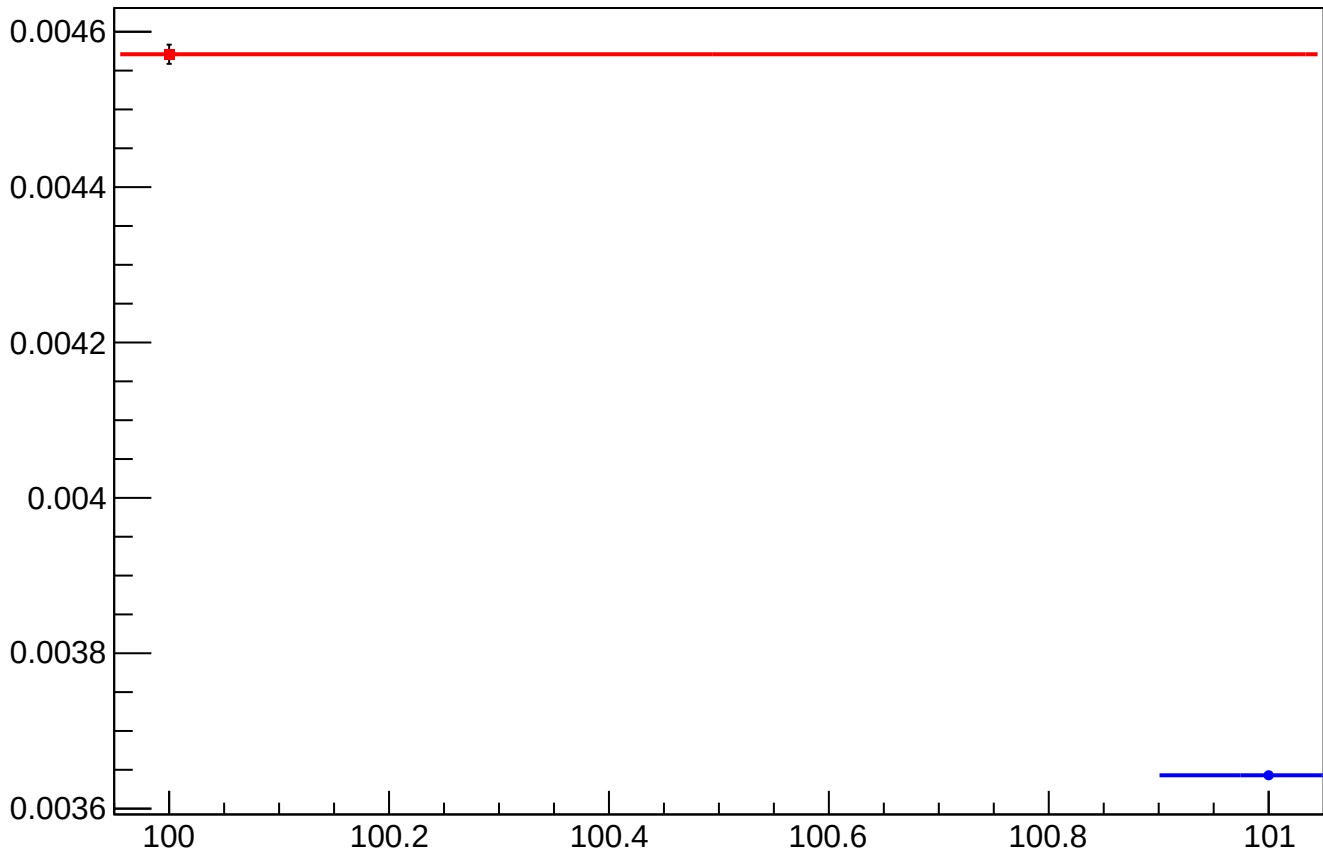
Right: 0.641+/-0.000  $\chi^2/\text{NDF}$ : 6381806.7/1

In: 0.639+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.641+/-0.000  $\chi^2/\text{NDF}$ : 6381806.7/1

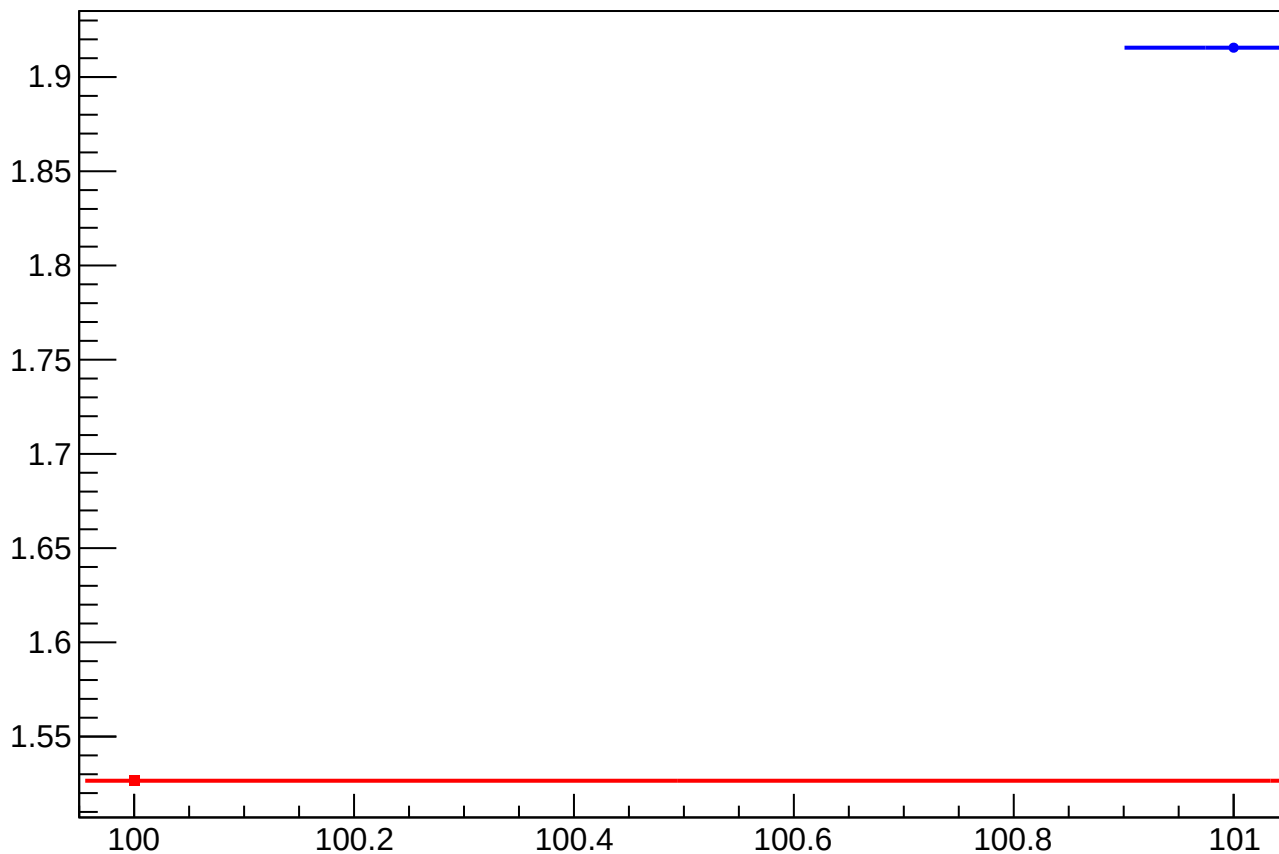
# yield\_bpm0l05Y\_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 5296.8/1  
In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 5296.8/1

# yield\_bpm0l06X\_mean vs Slug, Sign Corrected



Right In: 1.916+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.527+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

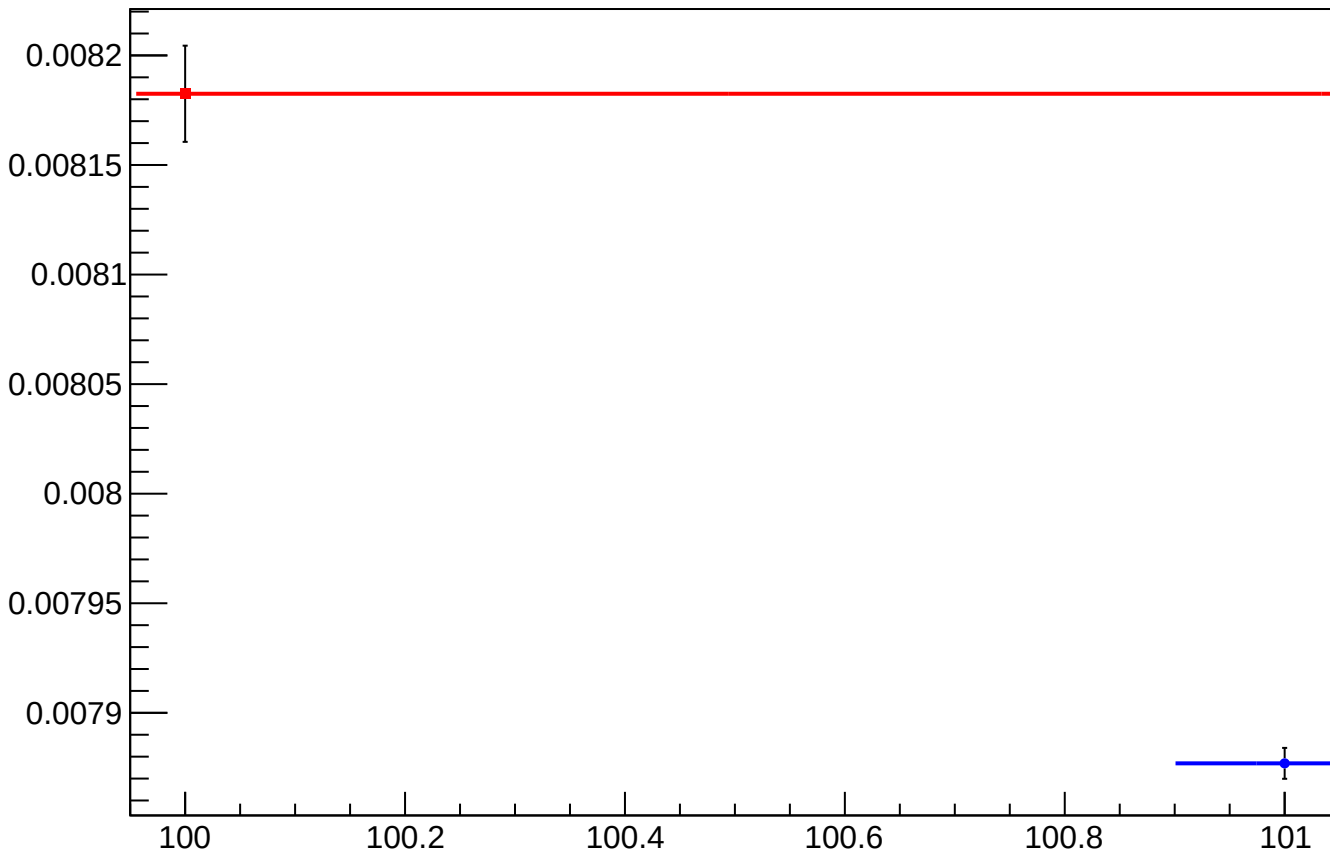
Right: 1.879+/-0.000  $\chi^2/\text{NDF}$ : 142419892.4/1

In: 1.916+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.879+/-0.000  $\chi^2/\text{NDF}$ : 142419892.4/1

# yield\_bpm0l06X\_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

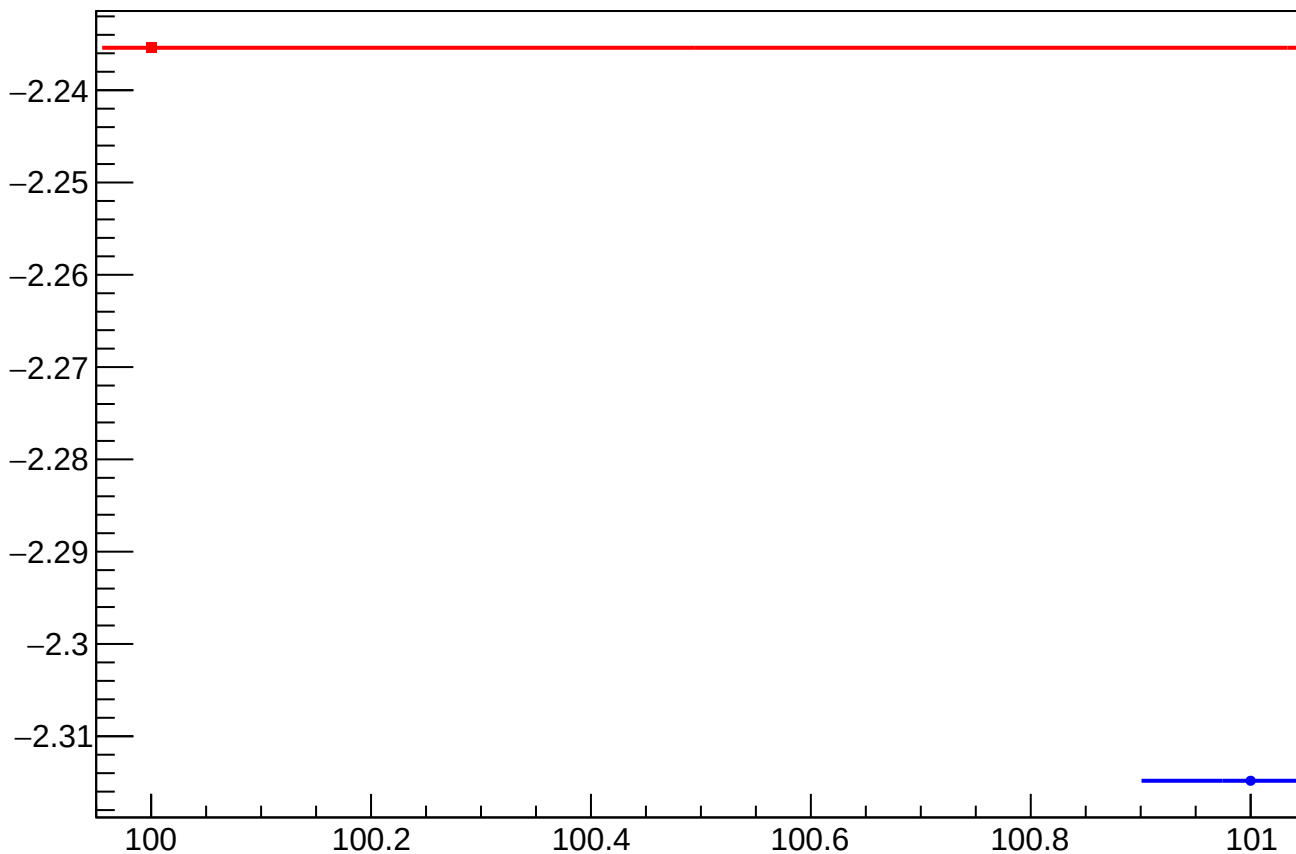
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 175.7/1

In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 175.7/1

# yield\_bpm0l06Y\_mean vs Slug, Sign Corrected



Right In: -2.315+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.235+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

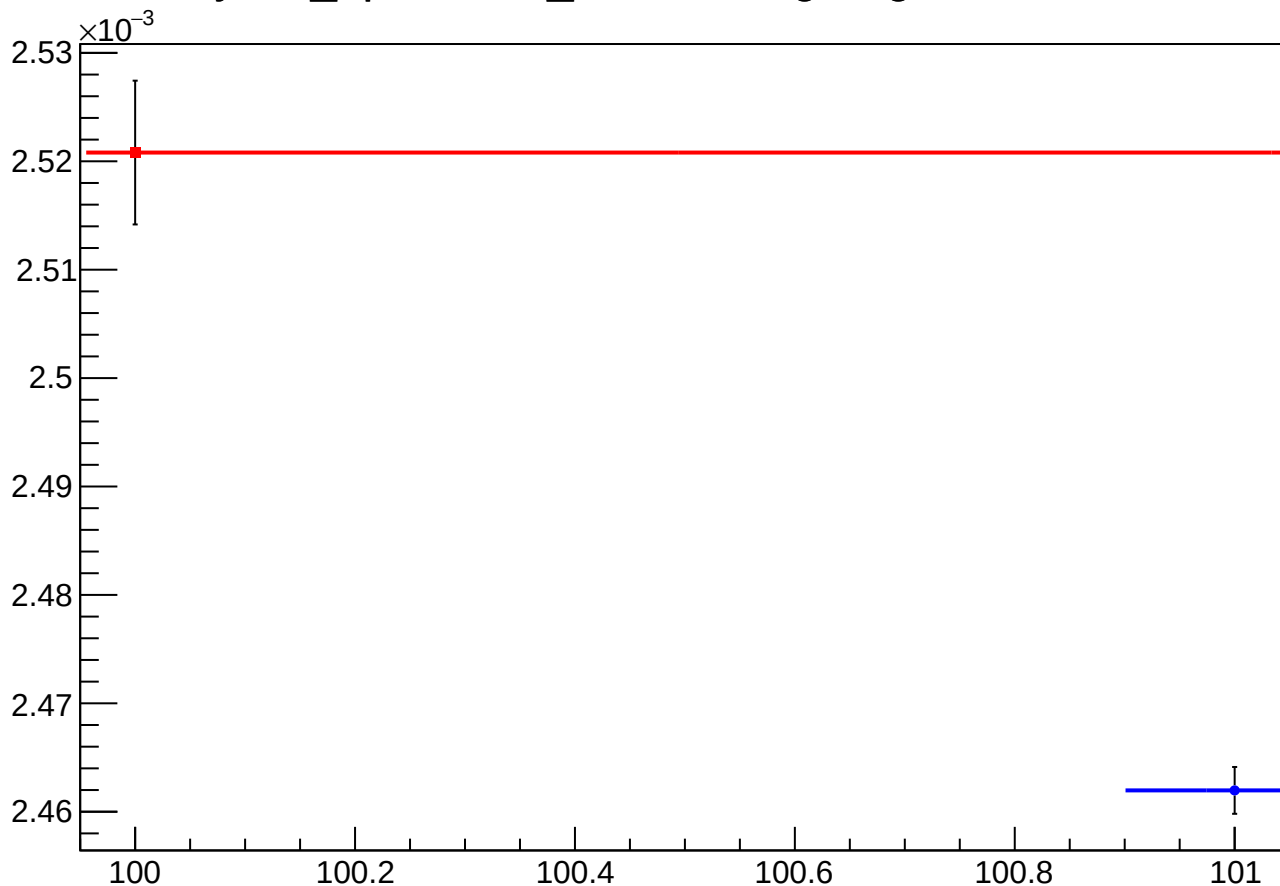
Right: -2.307+/-0.000  $\chi^2/\text{NDF}$ : 64850446.5/1

In: -2.315+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.307+/-0.000  $\chi^2/\text{NDF}$ : 64850446.5/1

# yield\_bpm0l06Y\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

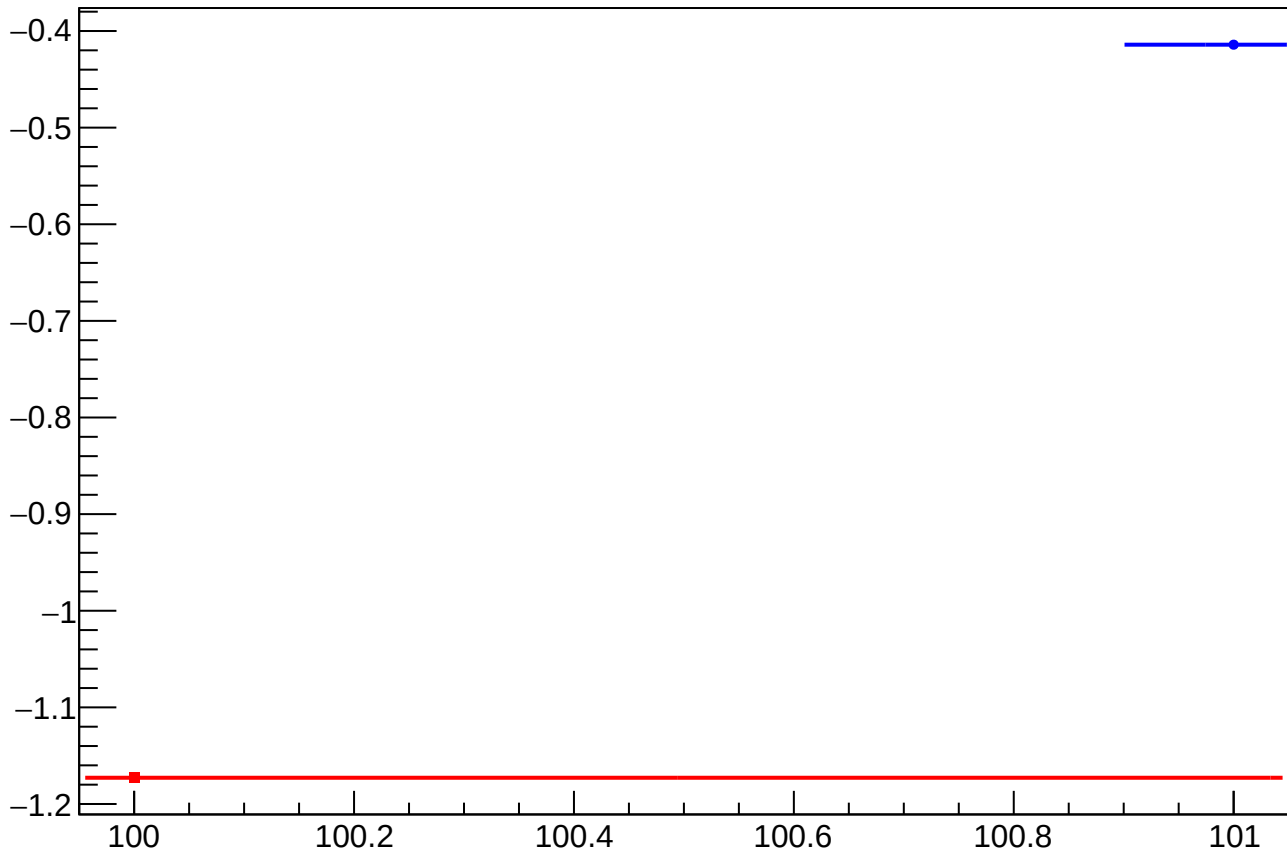
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 71.2/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 71.2/1

yield\_bpm0l07X\_mean vs Slug, Sign Corrected



Right In: -0.414+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.173+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

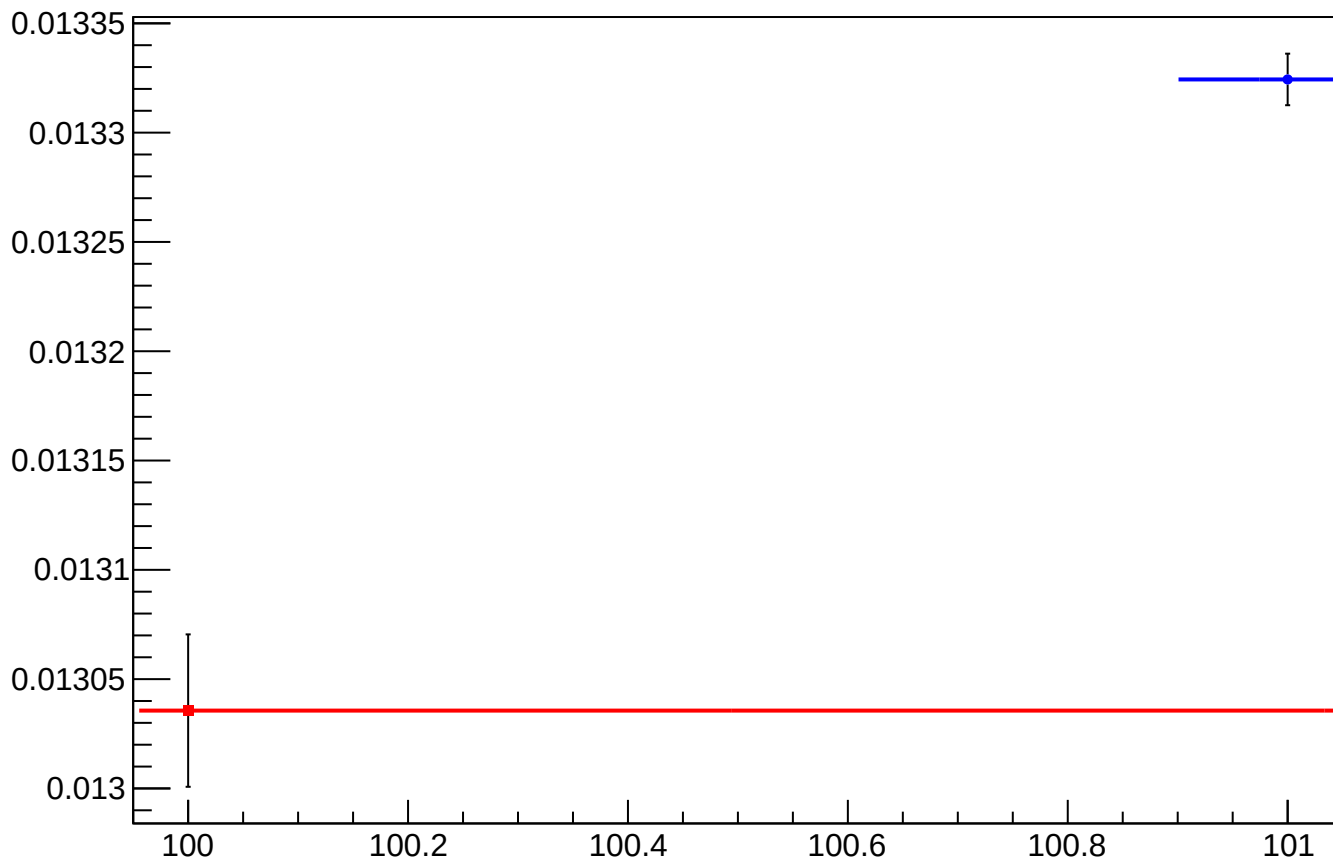
Right: -0.492+/-0.000  $\chi^2/\text{NDF}$ : 212518090.8/1

In: -0.414+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.492+/-0.000  $\chi^2/\text{NDF}$ : 212518090.8/1

# yield\_bpm0l07X\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 61.6/1

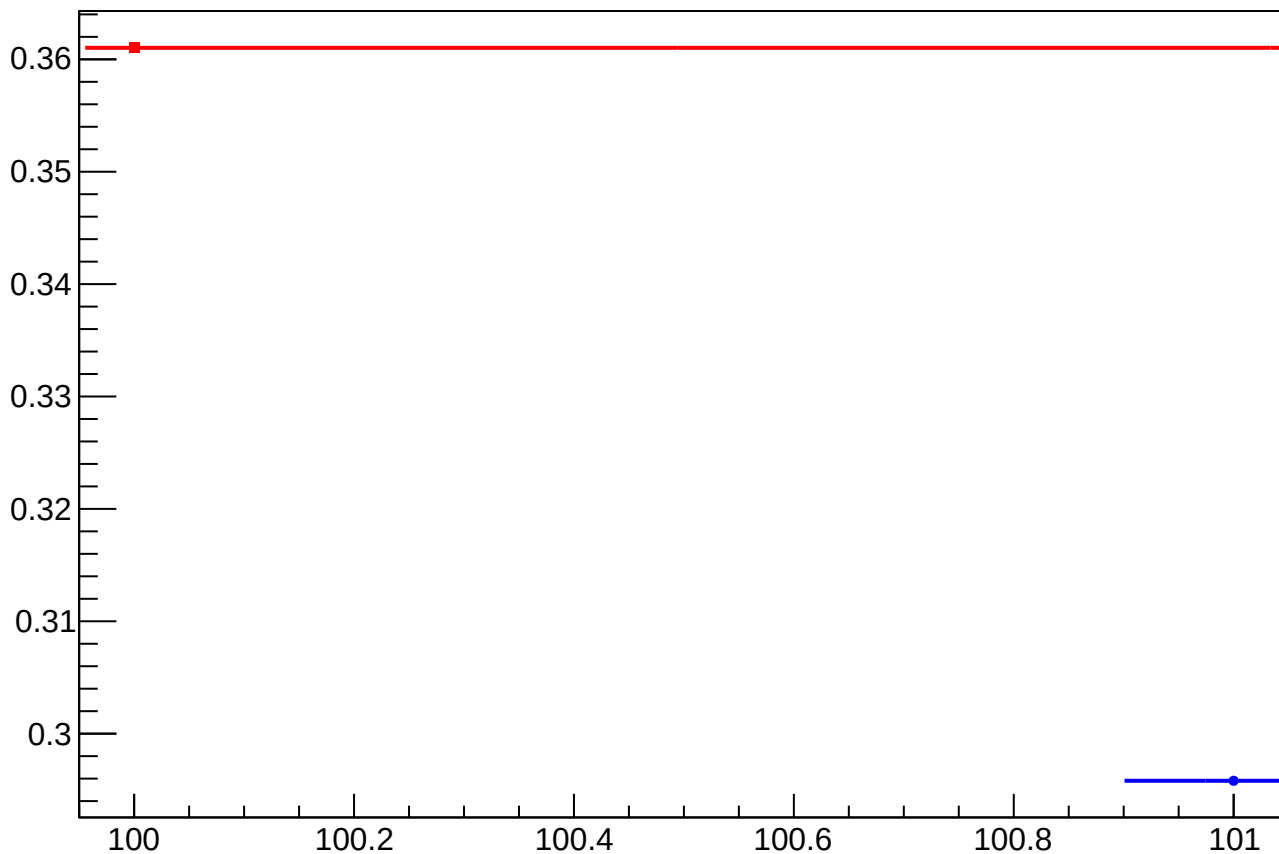
In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 61.6/1



# yield\_bpm0l07Y\_mean vs Slug, Sign Corrected



Right In: 0.296+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.361+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

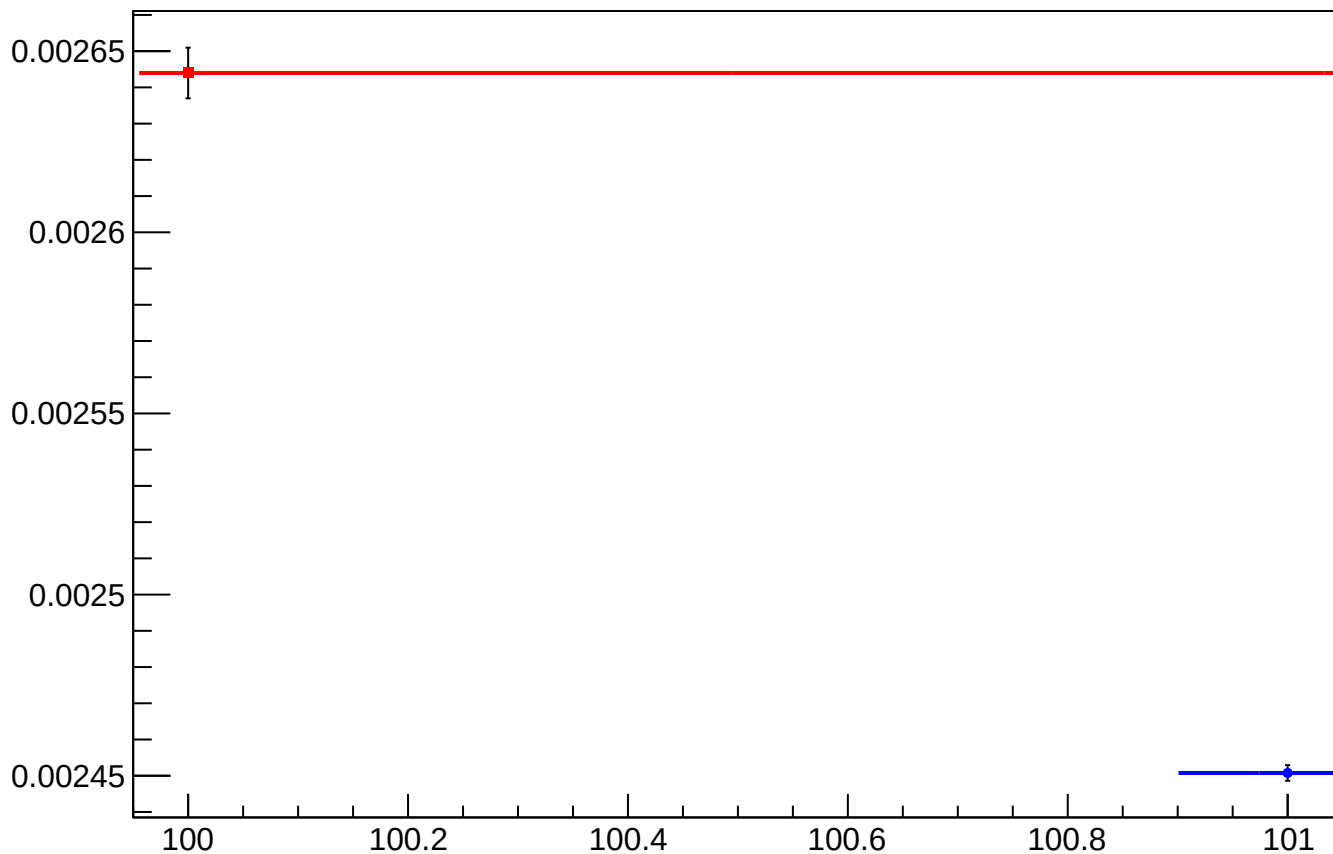
Right: 0.301+/-0.000  $\chi^2/\text{NDF}$ : 39751720.4/1

In: 0.296+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.301+/-0.000  $\chi^2/\text{NDF}$ : 39751720.4/1

# yield\_bpm0l07Y\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

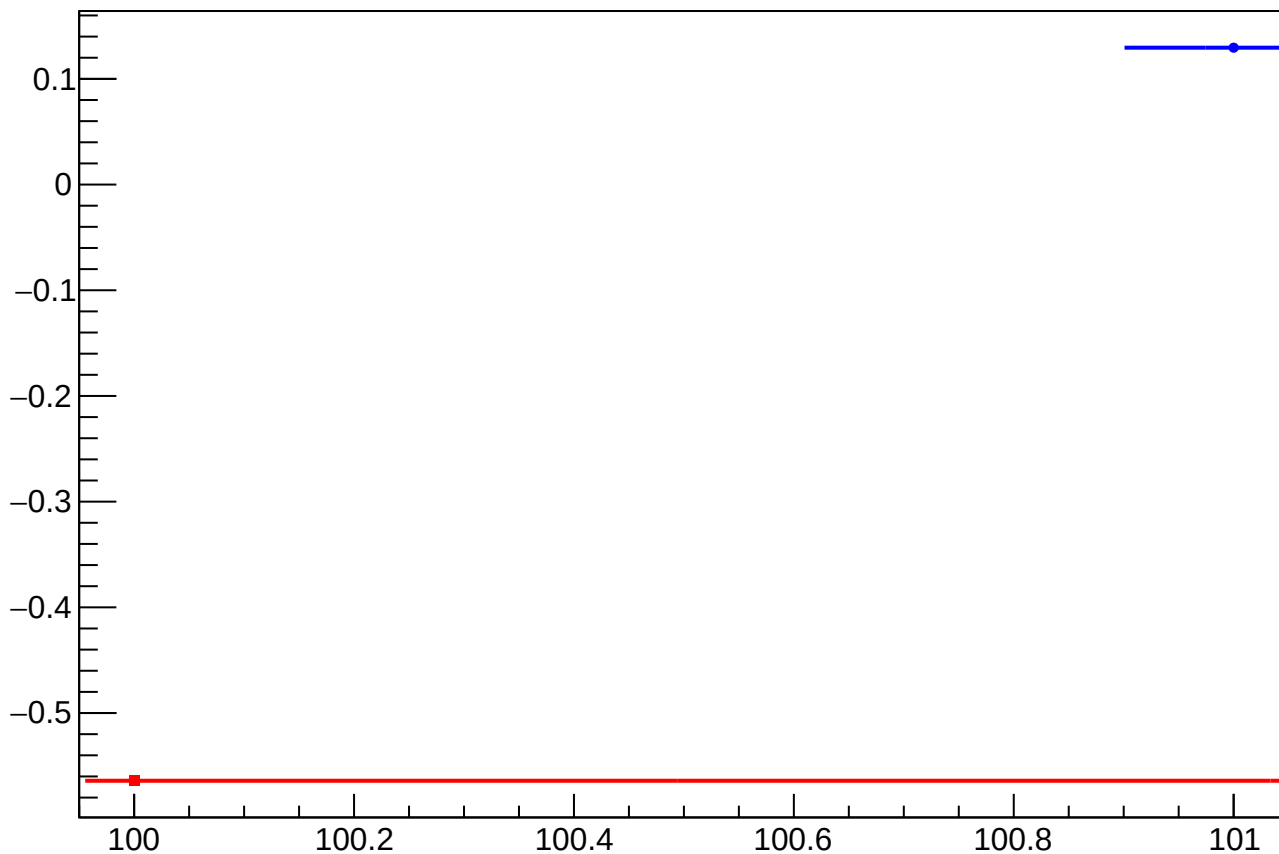
Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 697.7/1

In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 697.7/1

# yield\_bpm0l08X\_mean vs Slug, Sign Corrected



Right In: 0.130+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.564+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

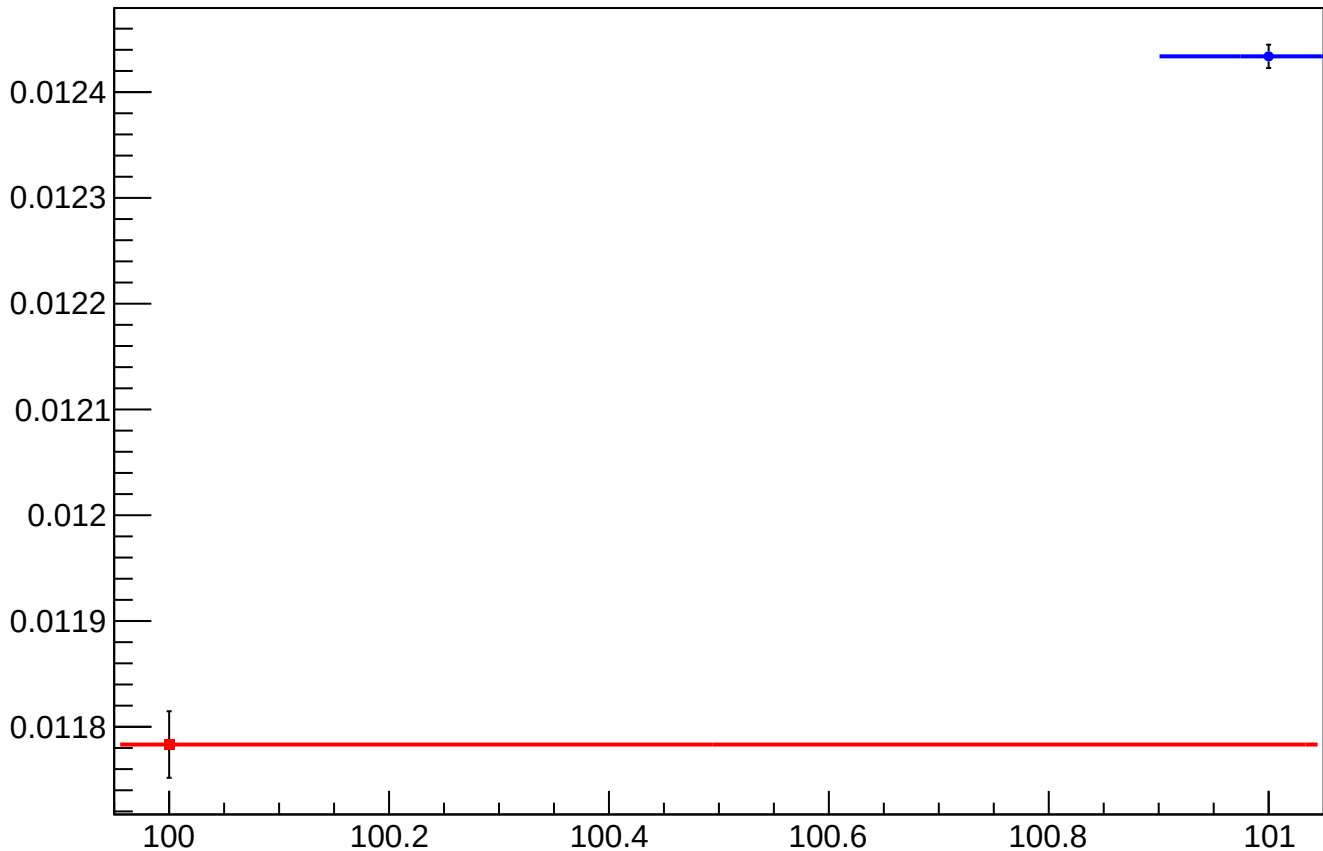
Right: 0.053+/-0.000  $\chi^2/\text{NDF}$ : 216503297.2/1

In: 0.130+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.053+/-0.000  $\chi^2/\text{NDF}$ : 216503297.2/1

# yield\_bpm0l08X\_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

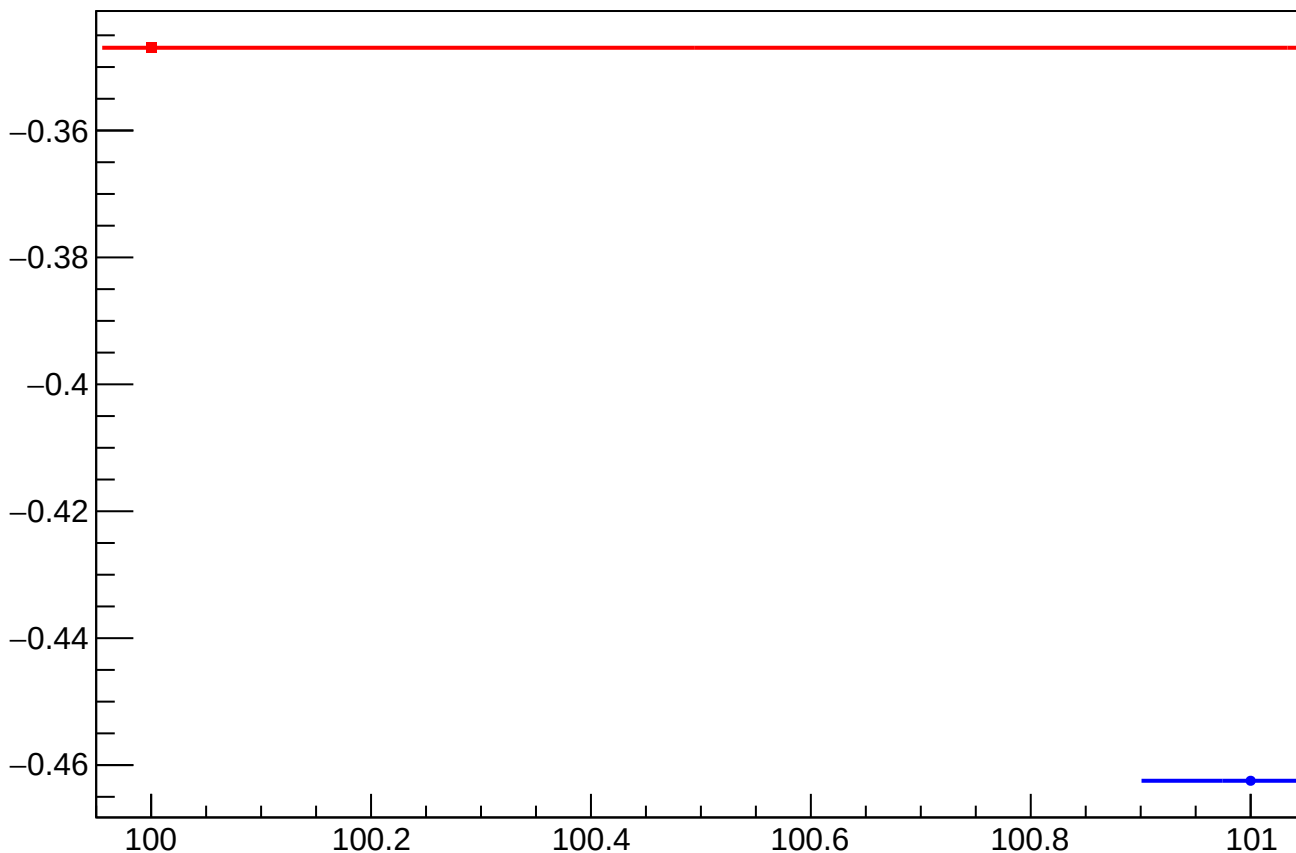
Right: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 381.0/1

In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 381.0/1

# yield\_bpm0l08Y\_mean vs Slug, Sign Corrected



Right In: -0.462 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.347 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

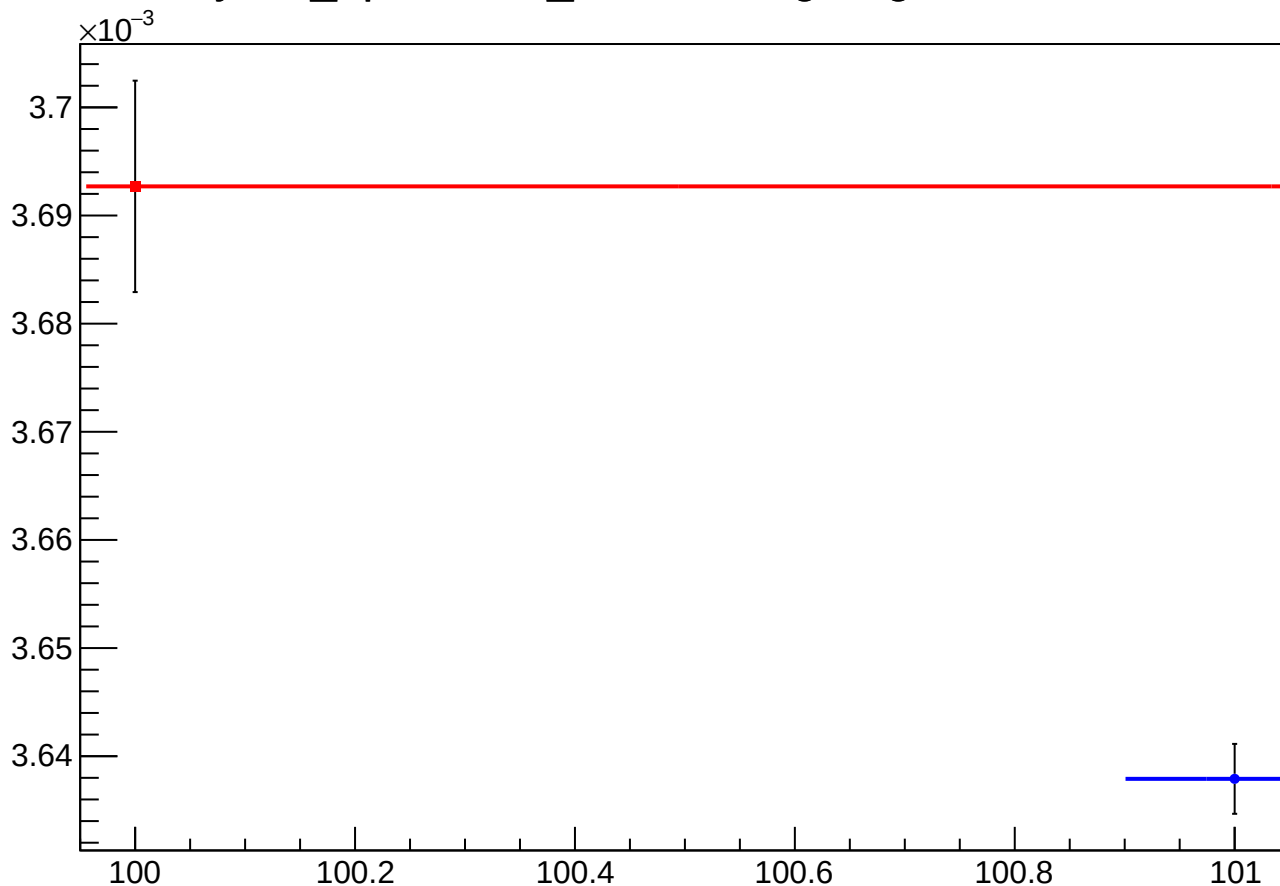
Right: -0.451 $\pm$ 0.000  $\chi^2$ /NDF: 62934492.0/1

In: -0.462 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.451 $\pm$ 0.000  $\chi^2$ /NDF: 62934492.0/1

# yield\_bpm0l08Y\_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

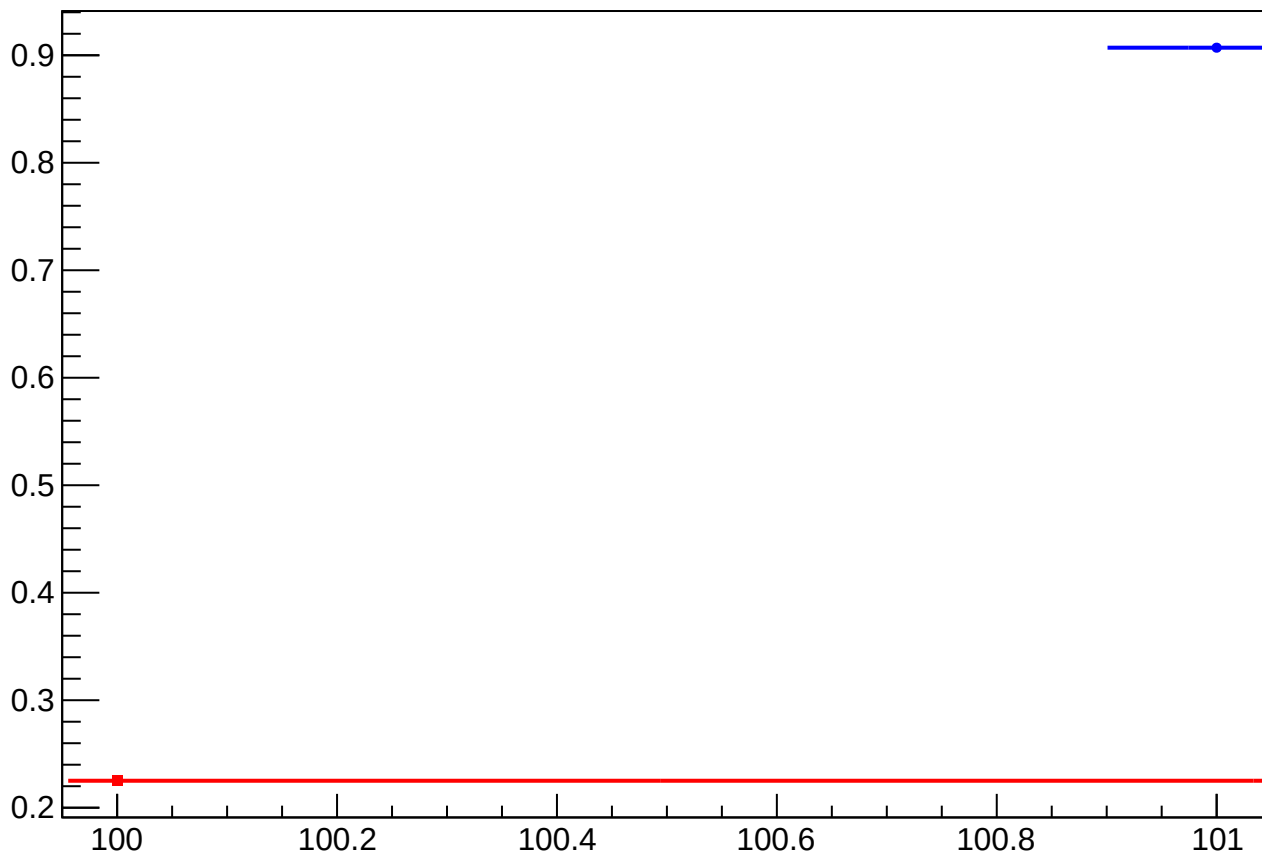
Right: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 28.3/1

In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 28.3/1

# yield\_bpm0l09X\_mean vs Slug, Sign Corrected



Right In: 0.907+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.225+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

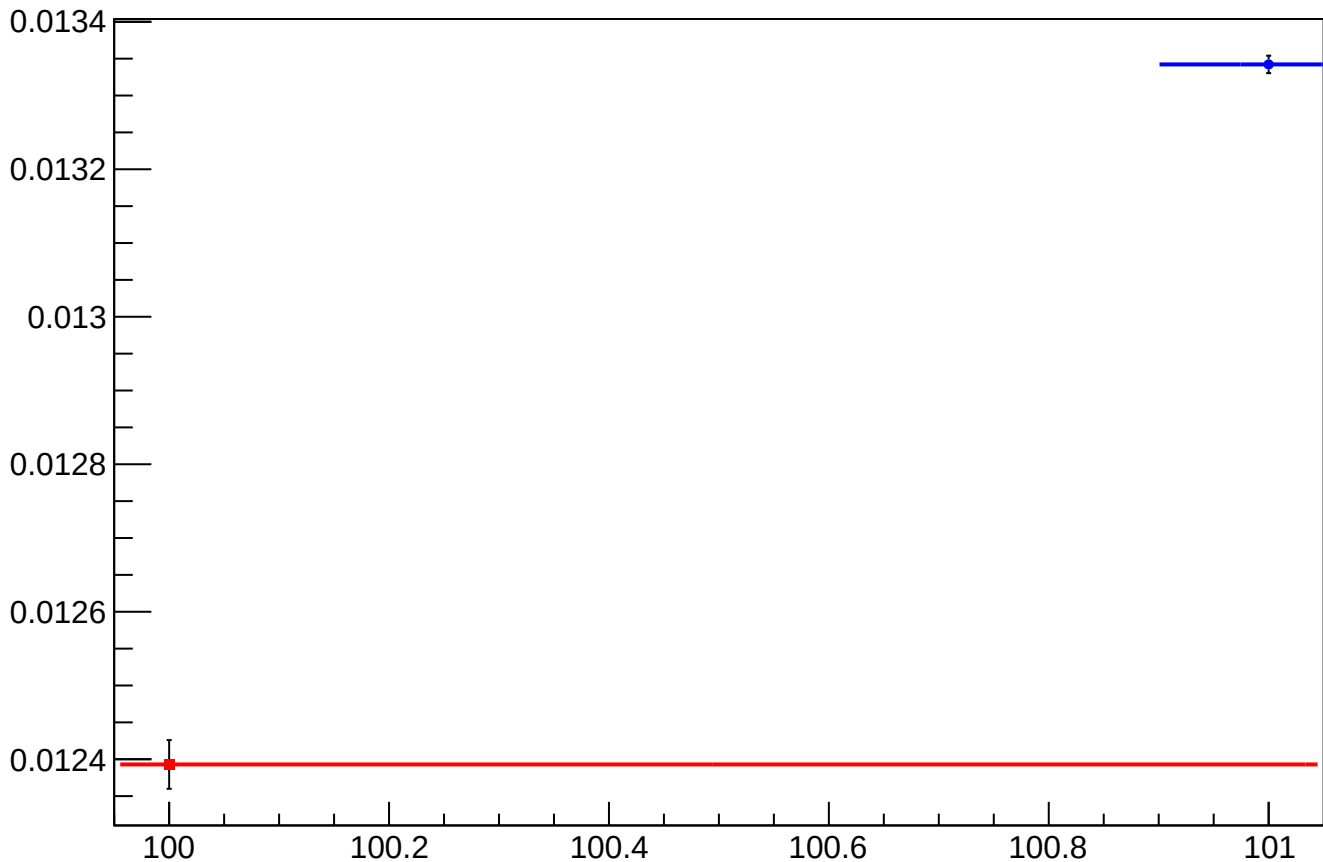
Right: 0.829+/-0.000  $\chi^2/\text{NDF}$ : 188813021.5/1

In: 0.907+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.829+/-0.000  $\chi^2/\text{NDF}$ : 188813021.5/1

# yield\_bpm0l09X\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 731.6/1

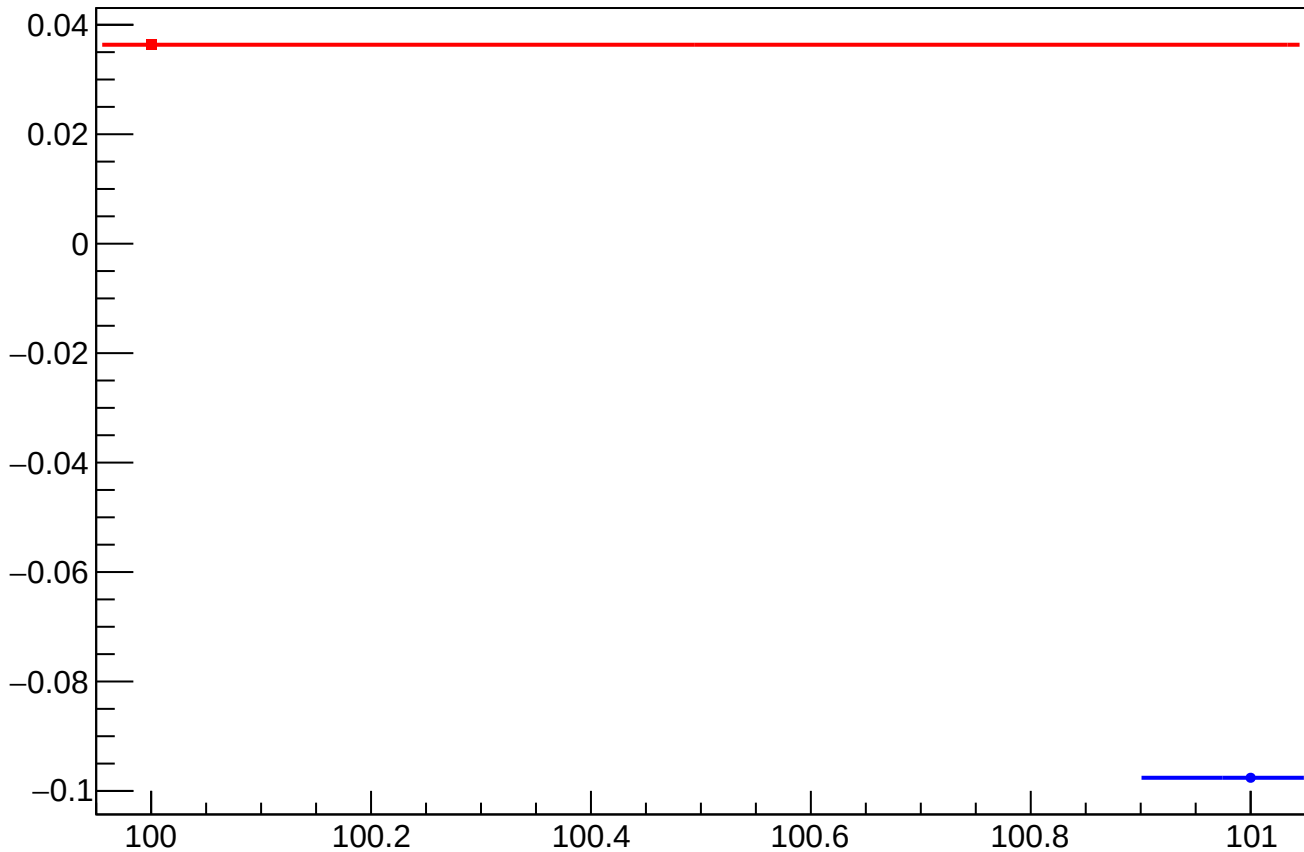
In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 731.6/1



# yield\_bpm0l09Y\_mean vs Slug, Sign Corrected



Right In: -0.098+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

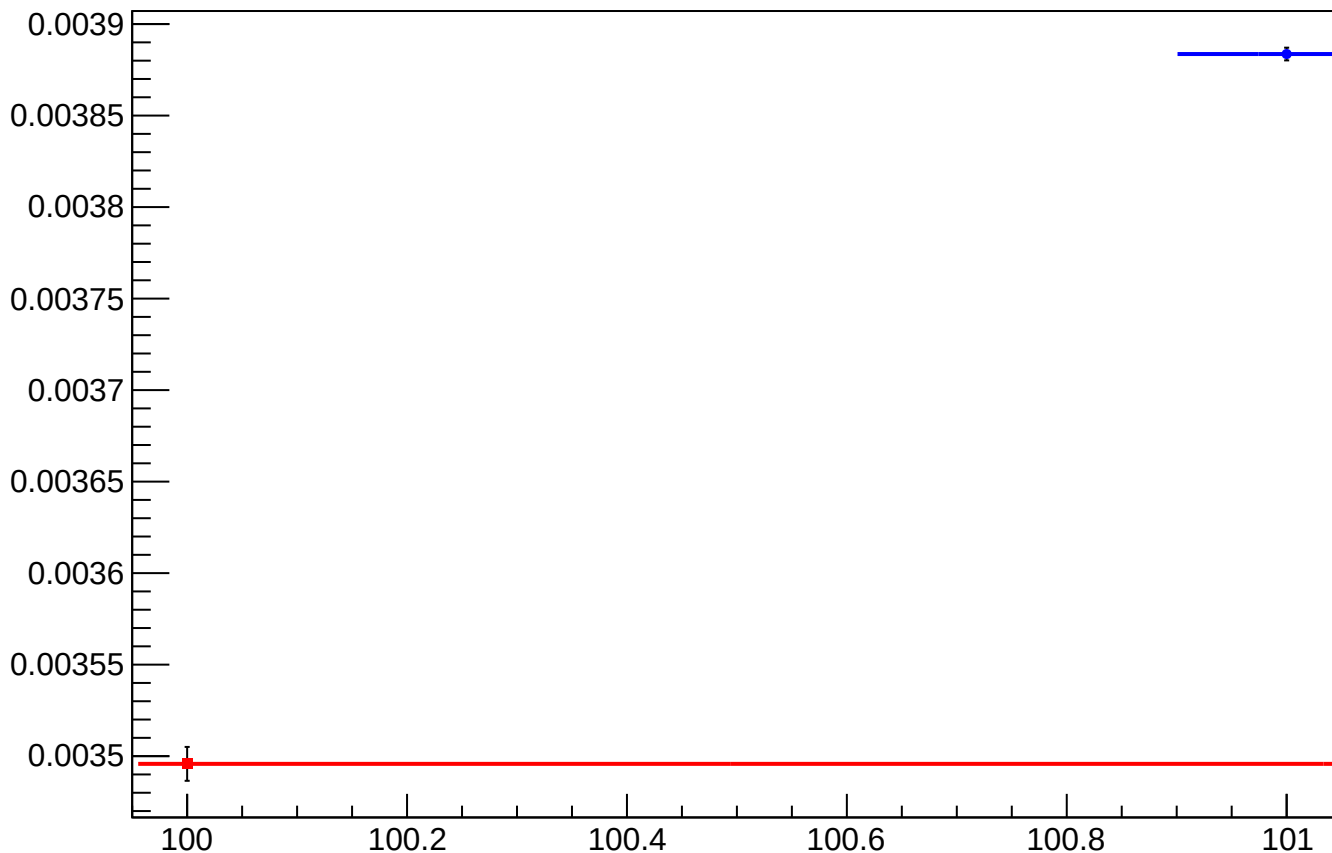
Right: -0.081+/-0.000  $\chi^2/\text{NDF}$ : 91800304.4/1

In: -0.098+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.081+/-0.000  $\chi^2/\text{NDF}$ : 91800304.4/1

# yield\_bpm0l09Y\_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

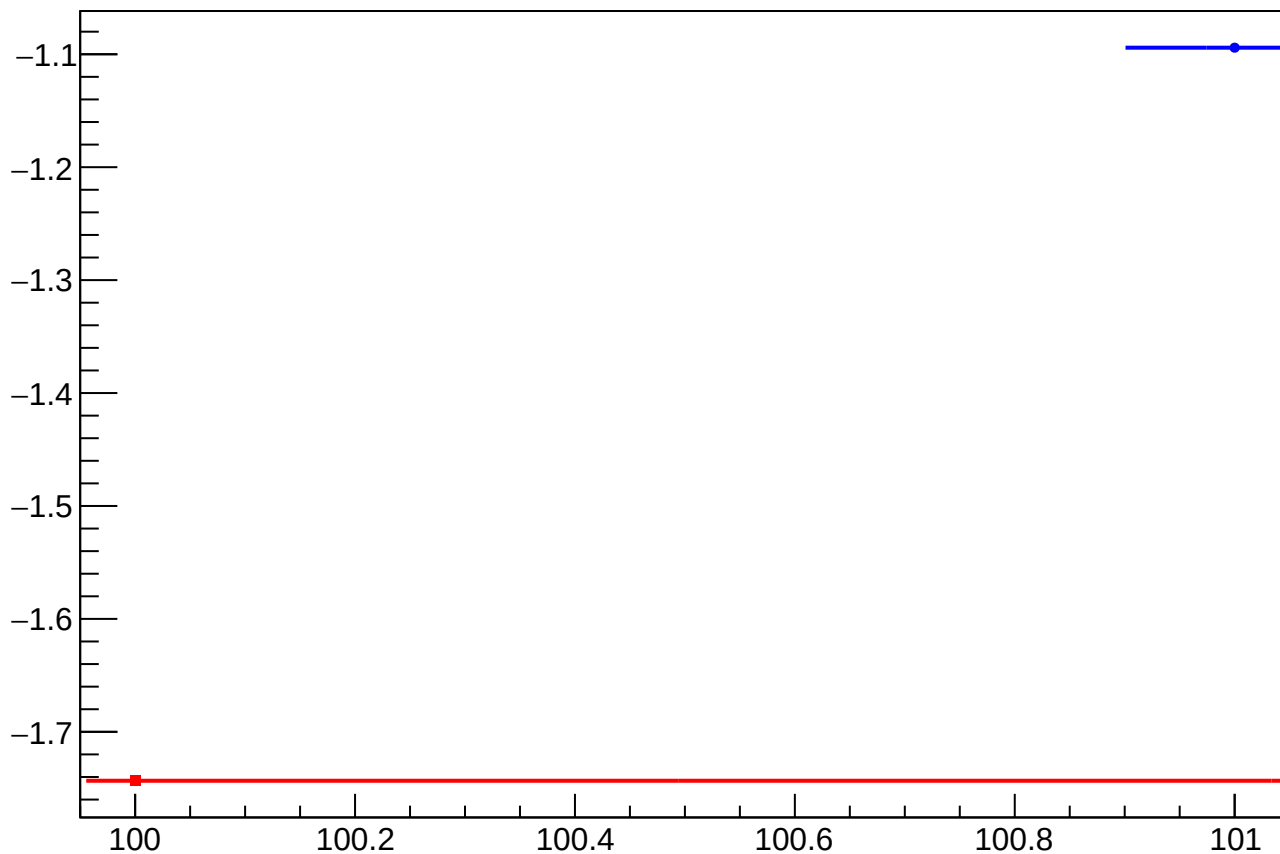
Right: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1539.3/1

In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1539.3/1

# yield\_bpm0l10X\_mean vs Slug, Sign Corrected



Right In: -1.094+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.743+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

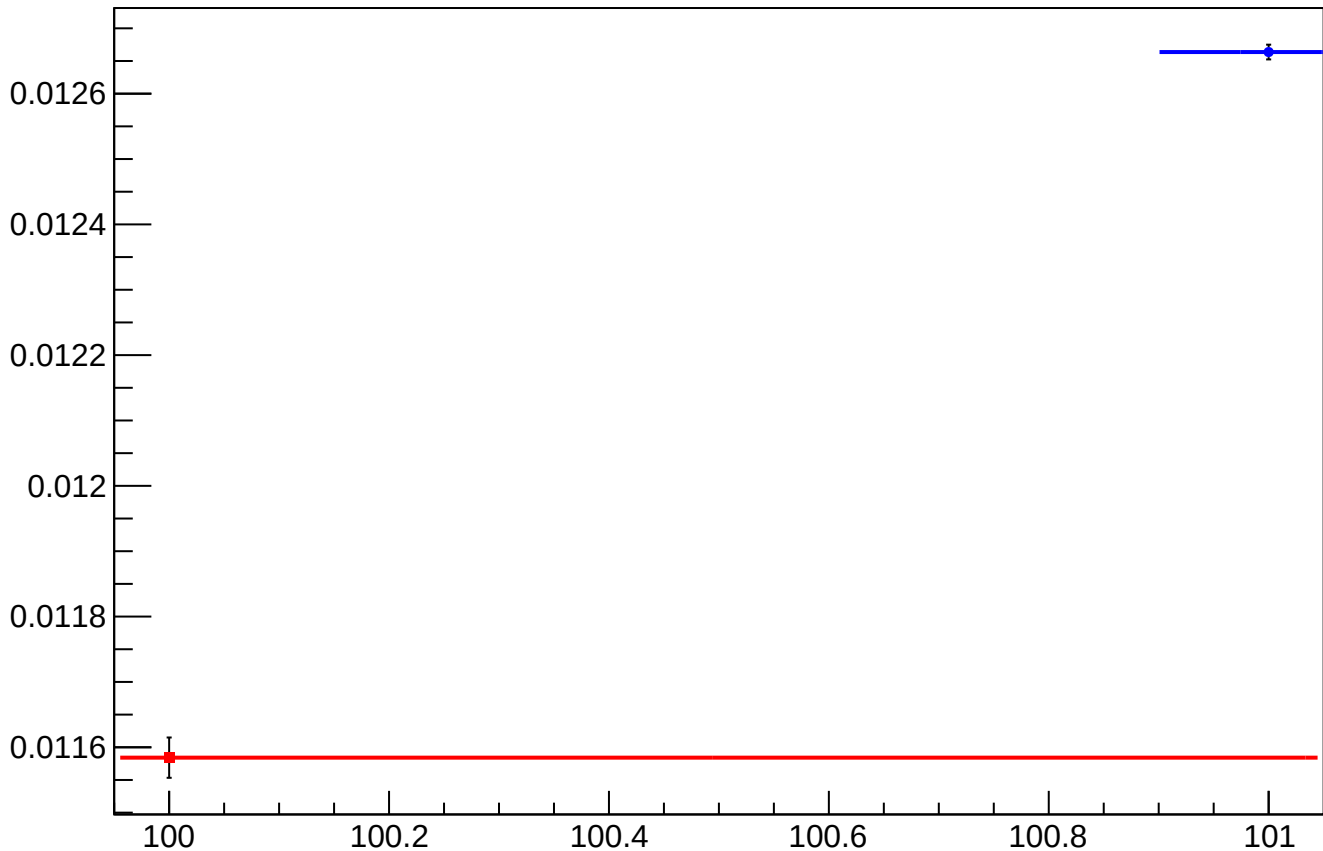
Right: -1.171+/-0.000  $\chi^2/\text{NDF}$ : 195505517.1/1

In: -1.094+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.171+/-0.000  $\chi^2/\text{NDF}$ : 195505517.1/1

# yield\_bpm0l10X\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

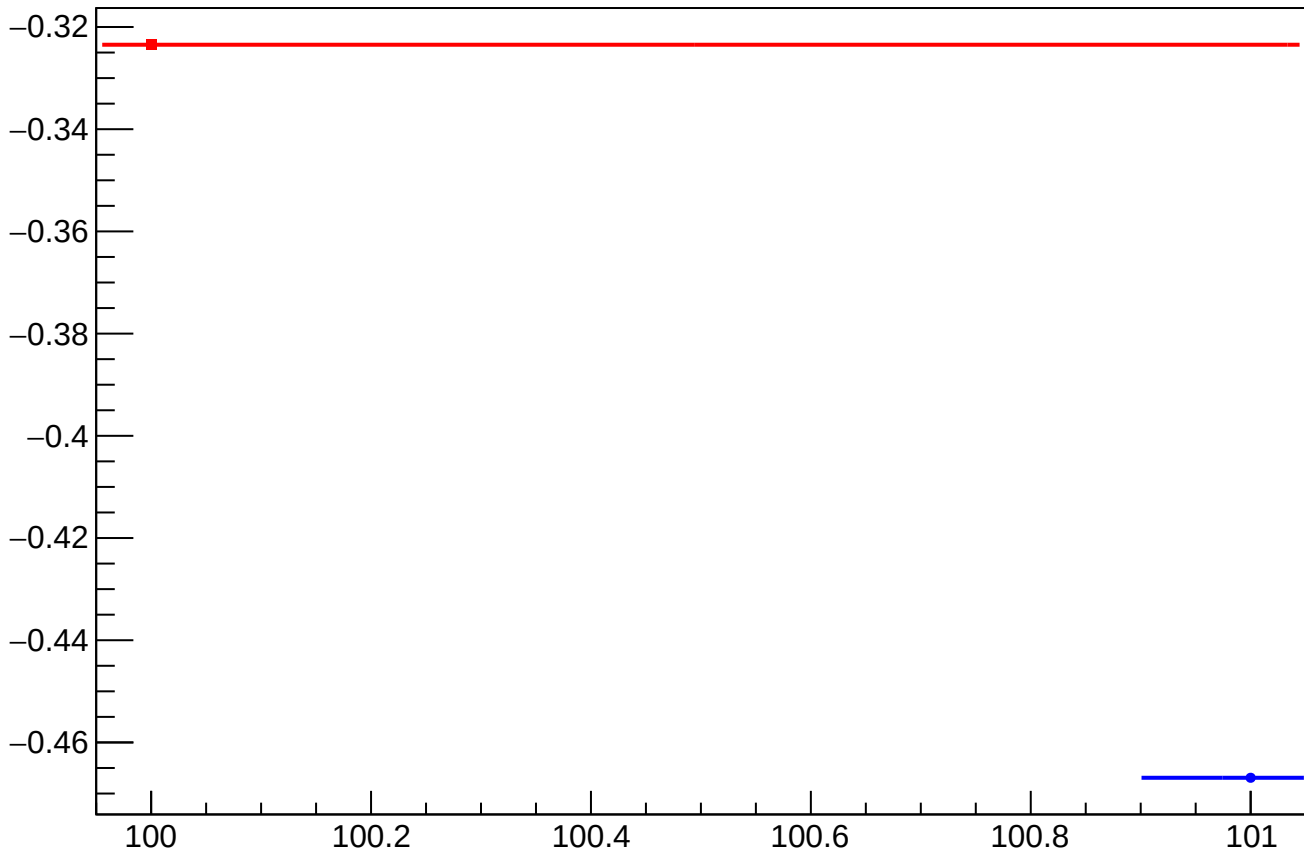
Right: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1081.4/1

In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1081.4/1

# yield\_bpm0l10Y\_mean vs Slug, Sign Corrected



Right In: -0.467+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.323+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

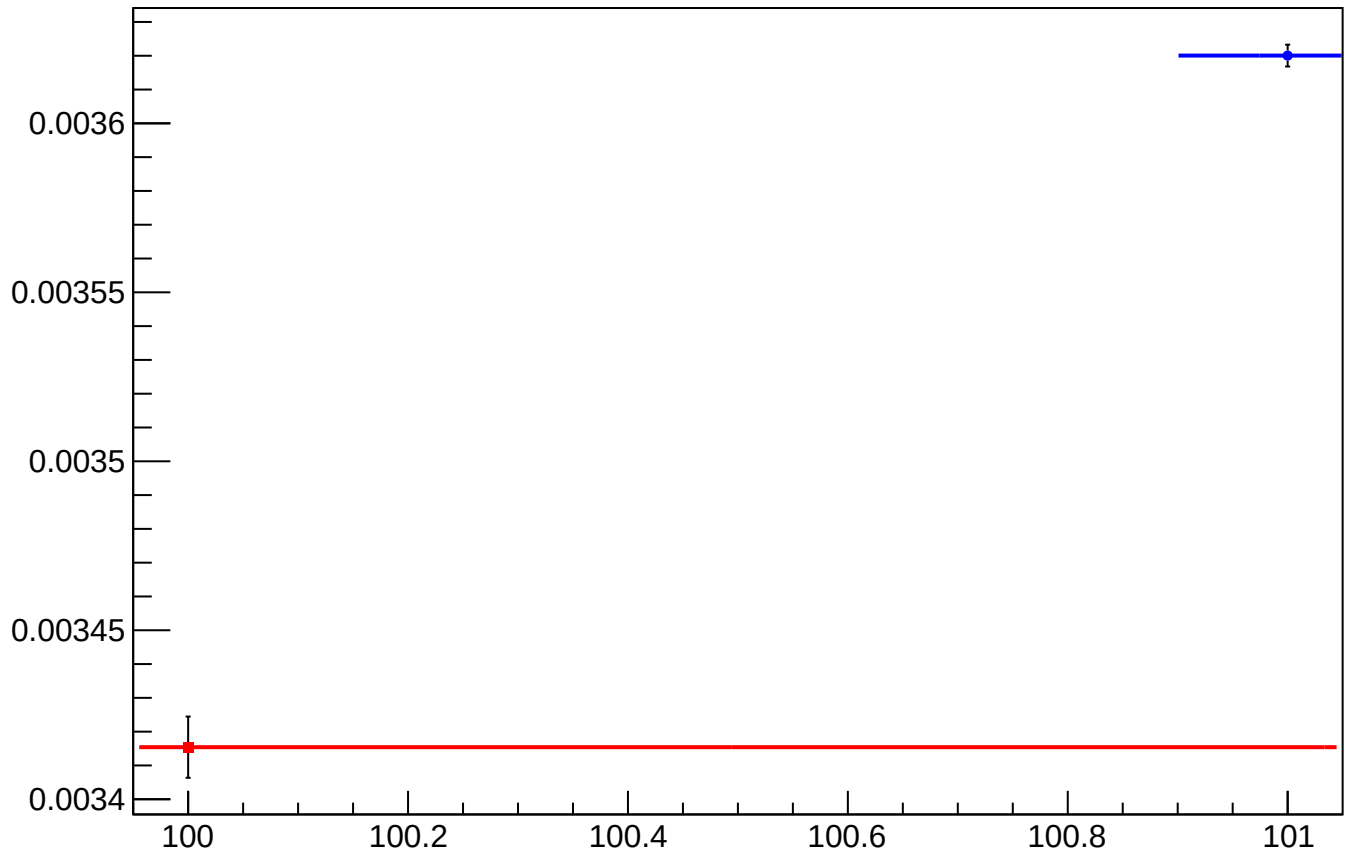
Right: -0.451+/-0.000  $\chi^2/\text{NDF}$ : 111228295.7/1

In: -0.467+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.451+/-0.000  $\chi^2/\text{NDF}$ : 111228295.7/1

# yield\_bpm0l10Y\_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

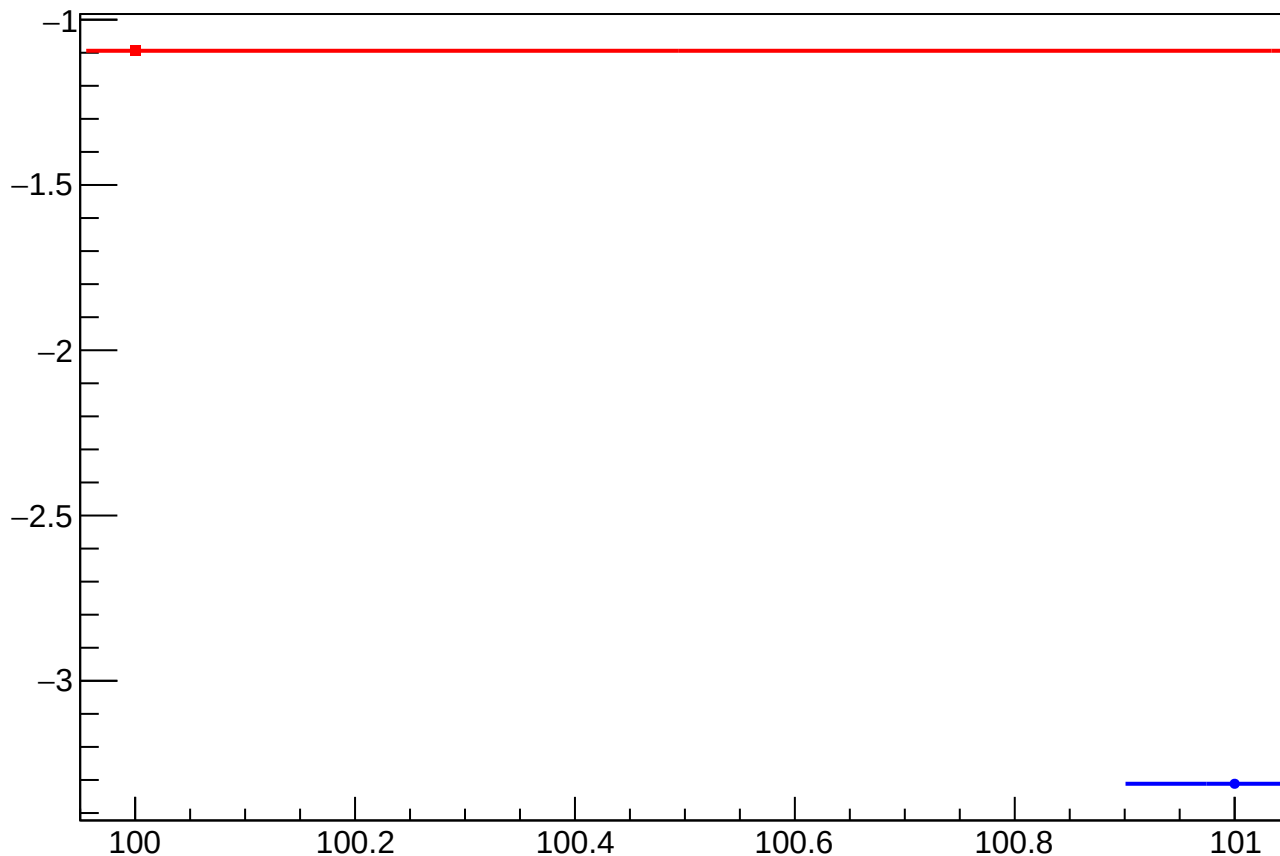
Right: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 452.8/1

In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 452.8/1

# yield\_bpm0r03X\_mean vs Slug, Sign Corrected



Right In: -3.311+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.094+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

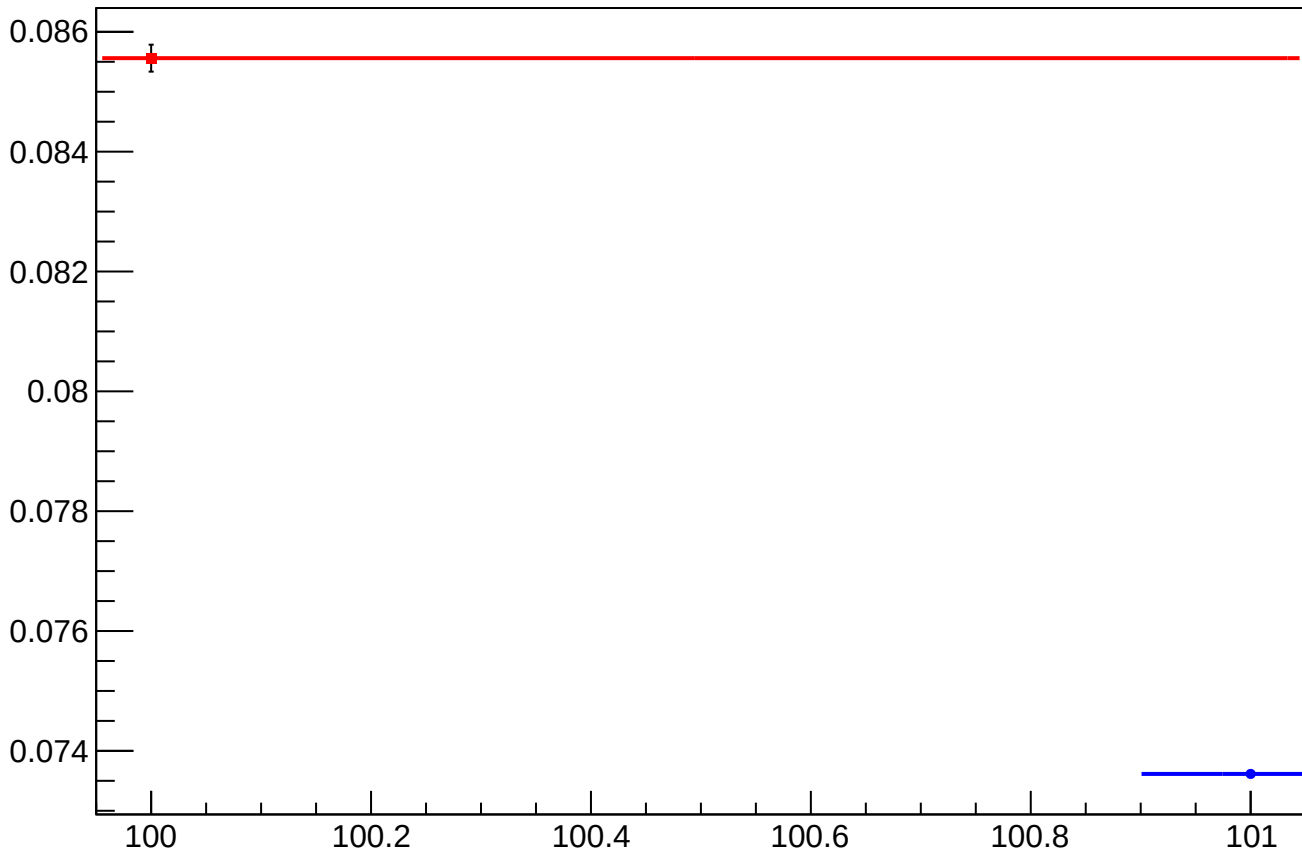
Right: -3.143+/-0.000  $\chi^2/\text{NDF}$ : 44848838.8/1

In: -3.311+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.143+/-0.000  $\chi^2/\text{NDF}$ : 44848838.8/1

# yield\_bpm0r03X\_rms vs Slug, Sign Corrected



Right In: 0.074+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.086+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.075+/-0.000  $\chi^2/\text{NDF}$ : 2603.0/1

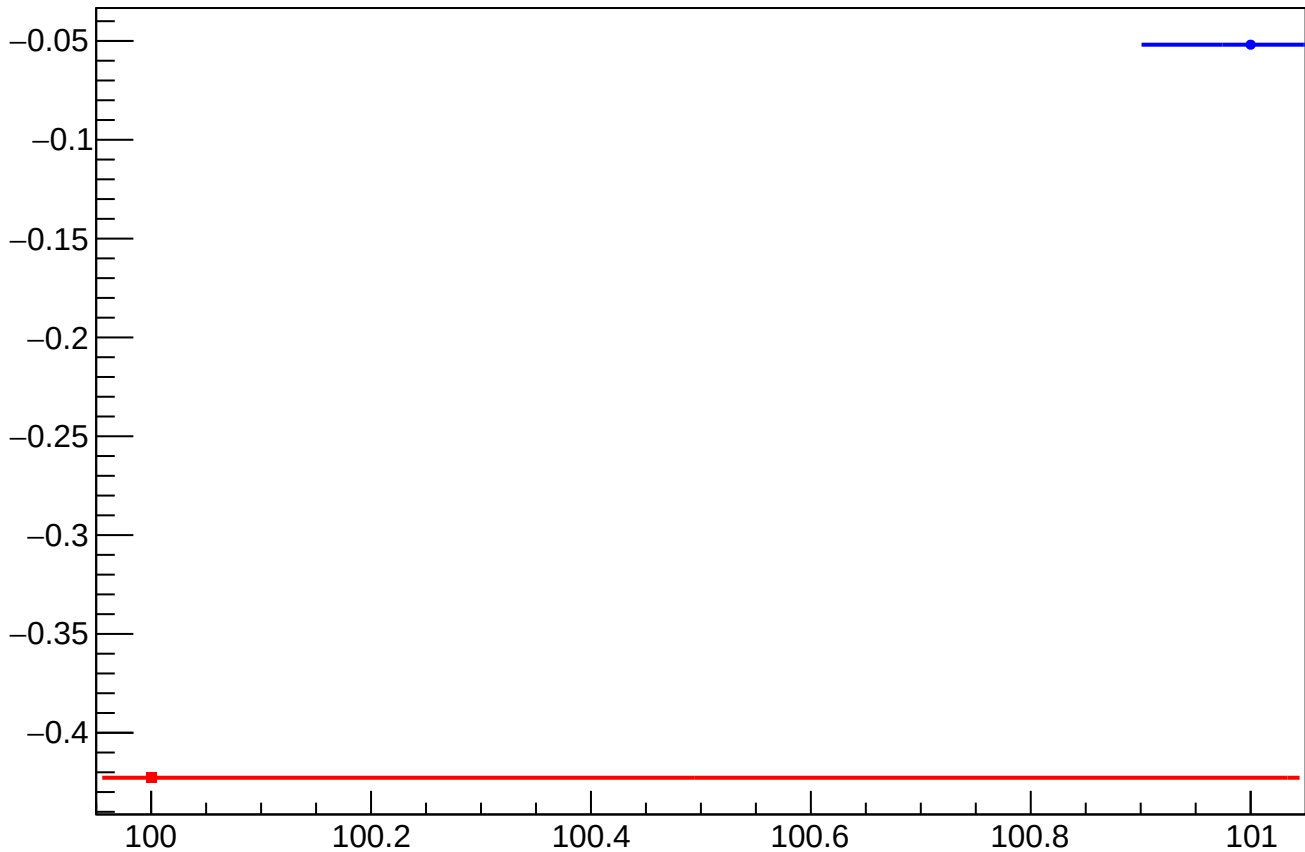
In: 0.074+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.075+/-0.000  $\chi^2/\text{NDF}$ : 2603.0/1



# yield\_bpm0r03Y\_mean vs Slug, Sign Corrected



Right In: -0.052+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.423+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

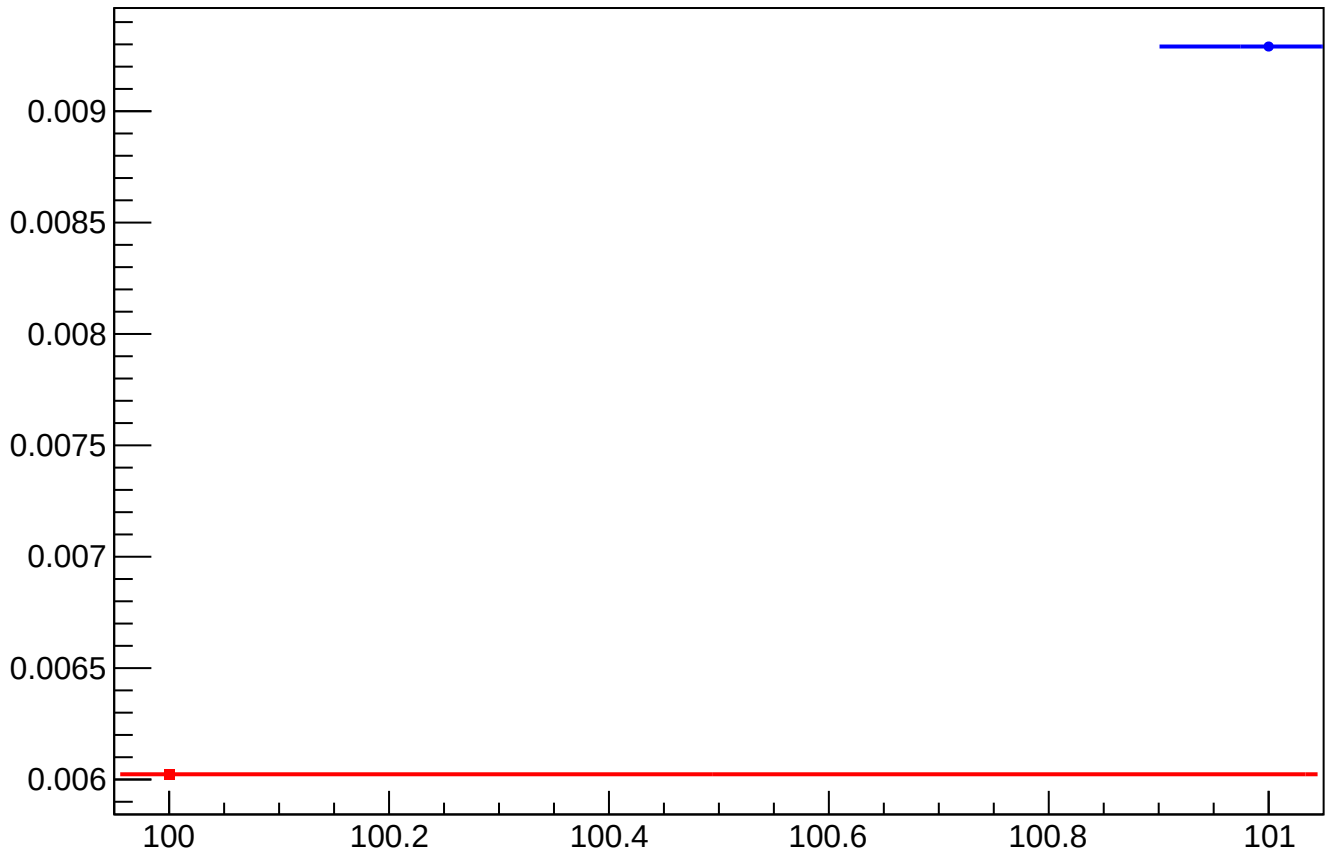
Right: -0.132+/-0.000  $\chi^2/\text{NDF}$ : 215272353.2/1

In: -0.052+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.132+/-0.000  $\chi^2/\text{NDF}$ : 215272353.2/1

# yield\_bpm0r03Y\_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

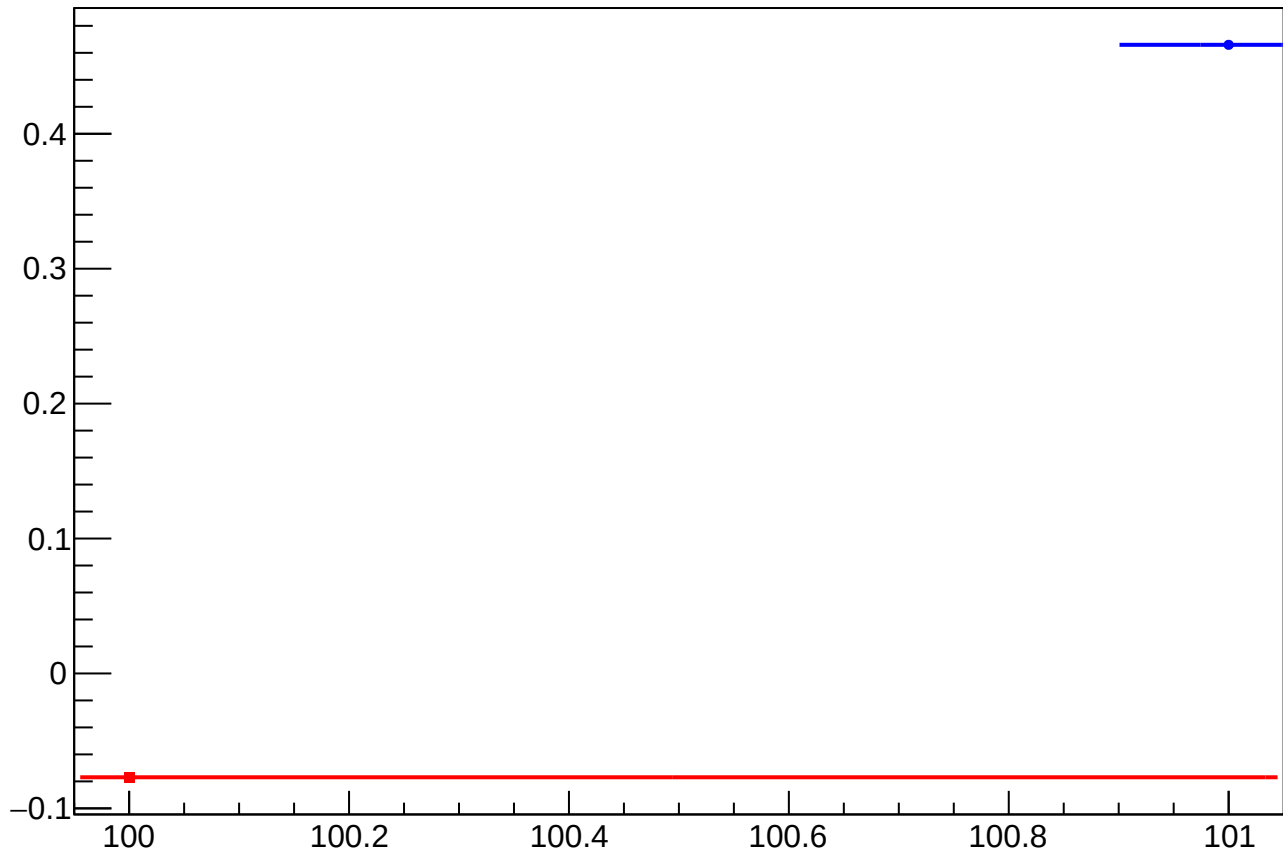
Right: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 33407.5/1

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 33407.5/1

# yield\_bpm0r05X\_mean vs Slug, Sign Corrected



Right In: 0.466+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.077+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

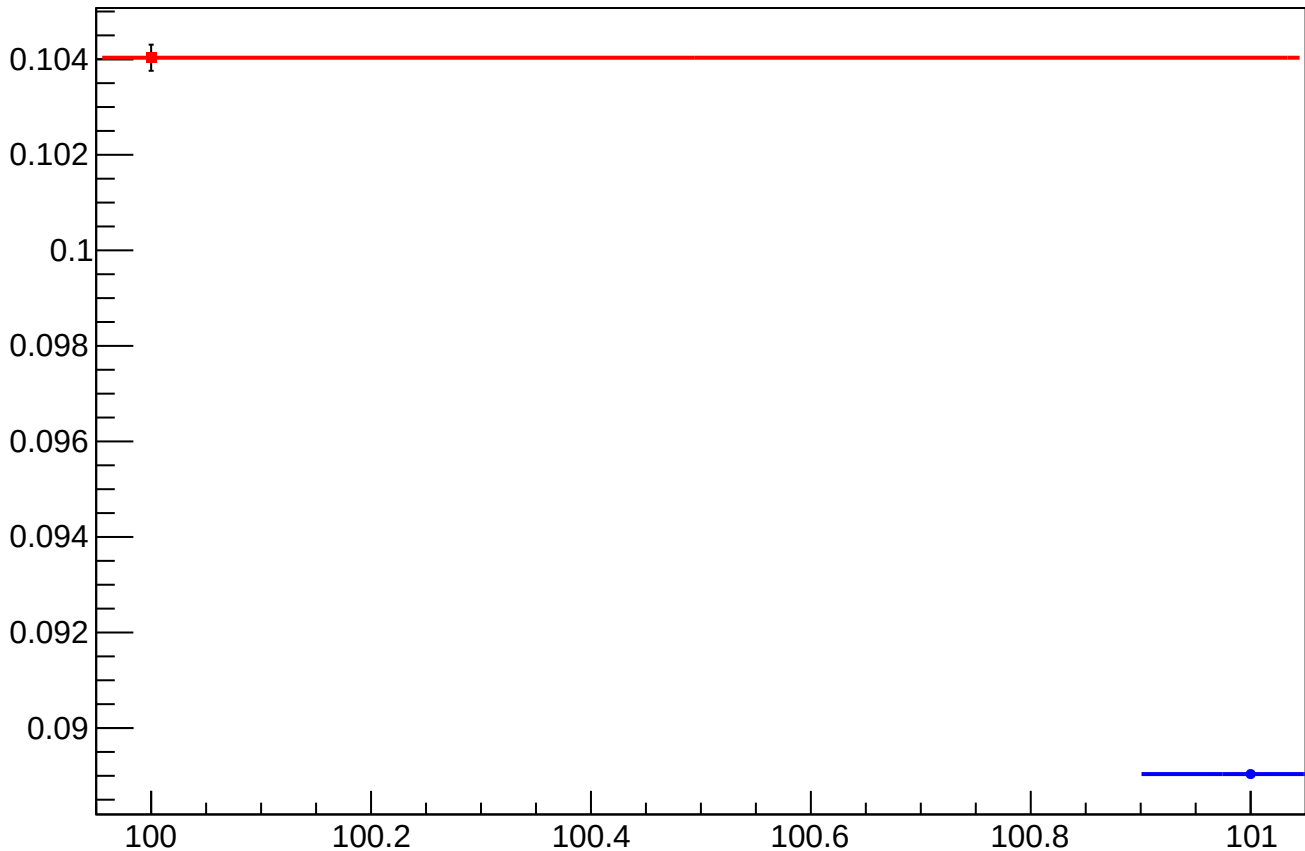
Right: 0.425+/-0.000  $\chi^2/\text{NDF}$ : 1823740.5/1

In: 0.466+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.425+/-0.000  $\chi^2/\text{NDF}$ : 1823740.5/1

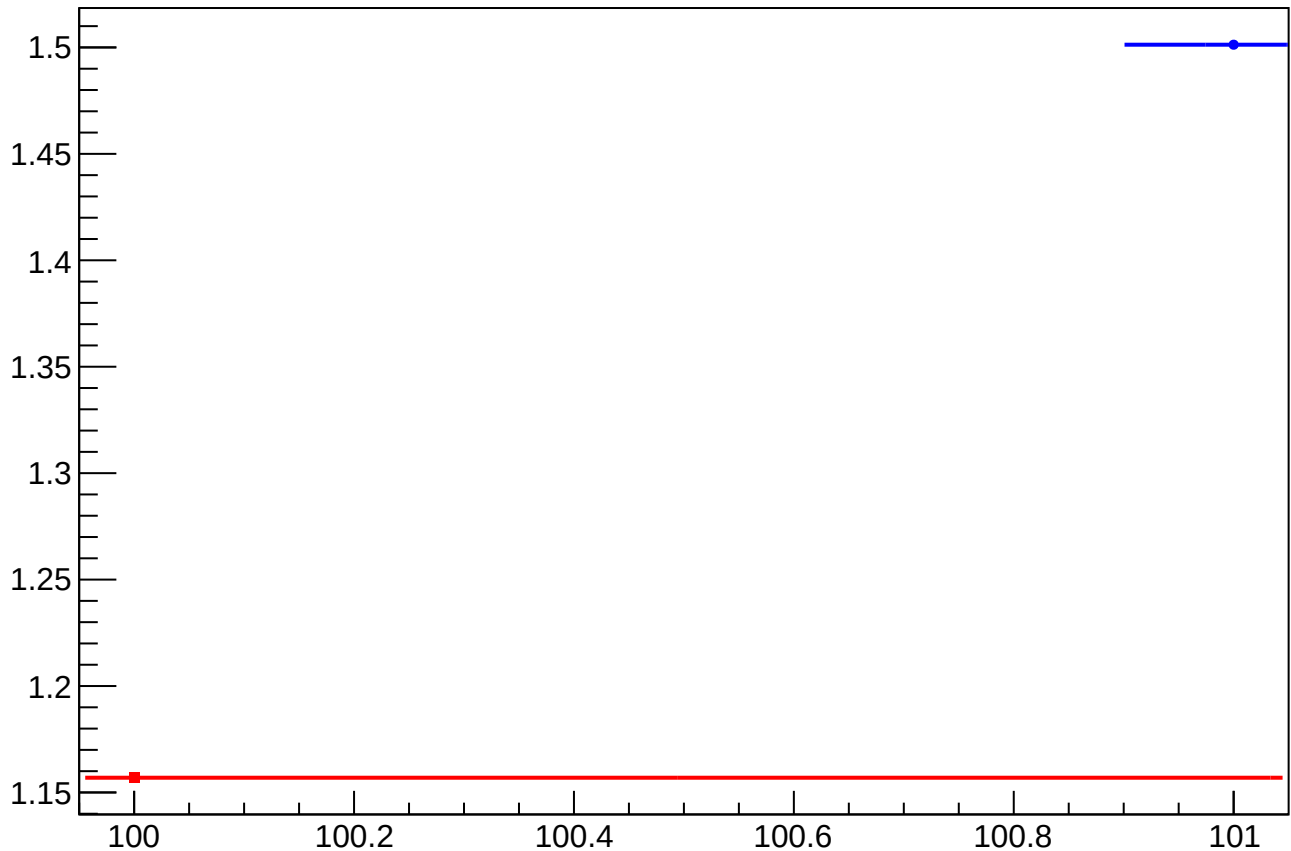
# yield\_bpm0r05X\_rms vs Slug, Sign Corrected



Right In: 0.089+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.104+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.090+/-0.000  $\chi^2/\text{NDF}$ : 2782.9/1  
In: 0.089+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.090+/-0.000  $\chi^2/\text{NDF}$ : 2782.9/1

yield\_bpm0r05Y\_mean vs Slug, Sign Corrected



Right In: 1.501+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.157+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

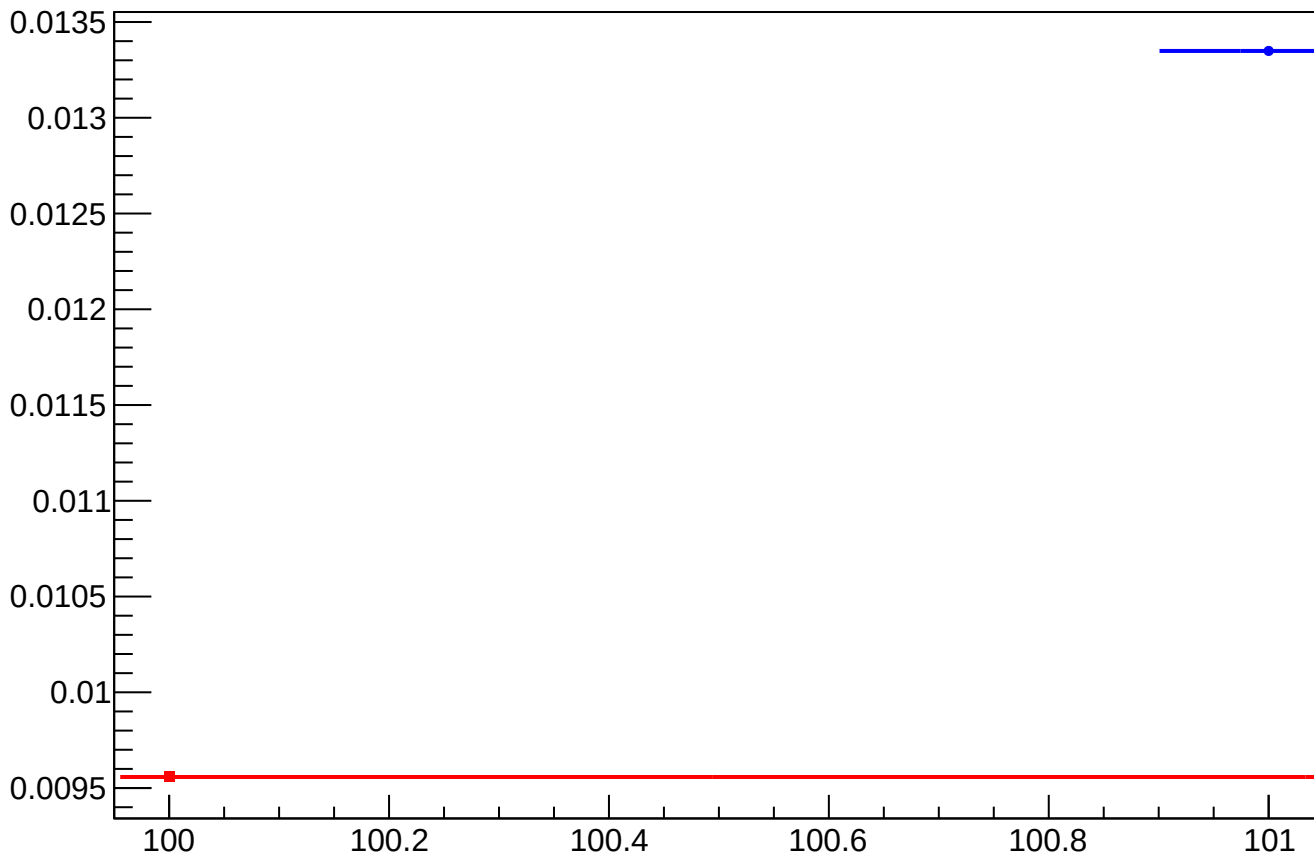
Right: 1.439+/-0.000  $\chi^2/\text{NDF}$ : 76808407.6/1

In: 1.501+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.439+/-0.000  $\chi^2/\text{NDF}$ : 76808407.6/1

# yield\_bpm0r05Y\_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

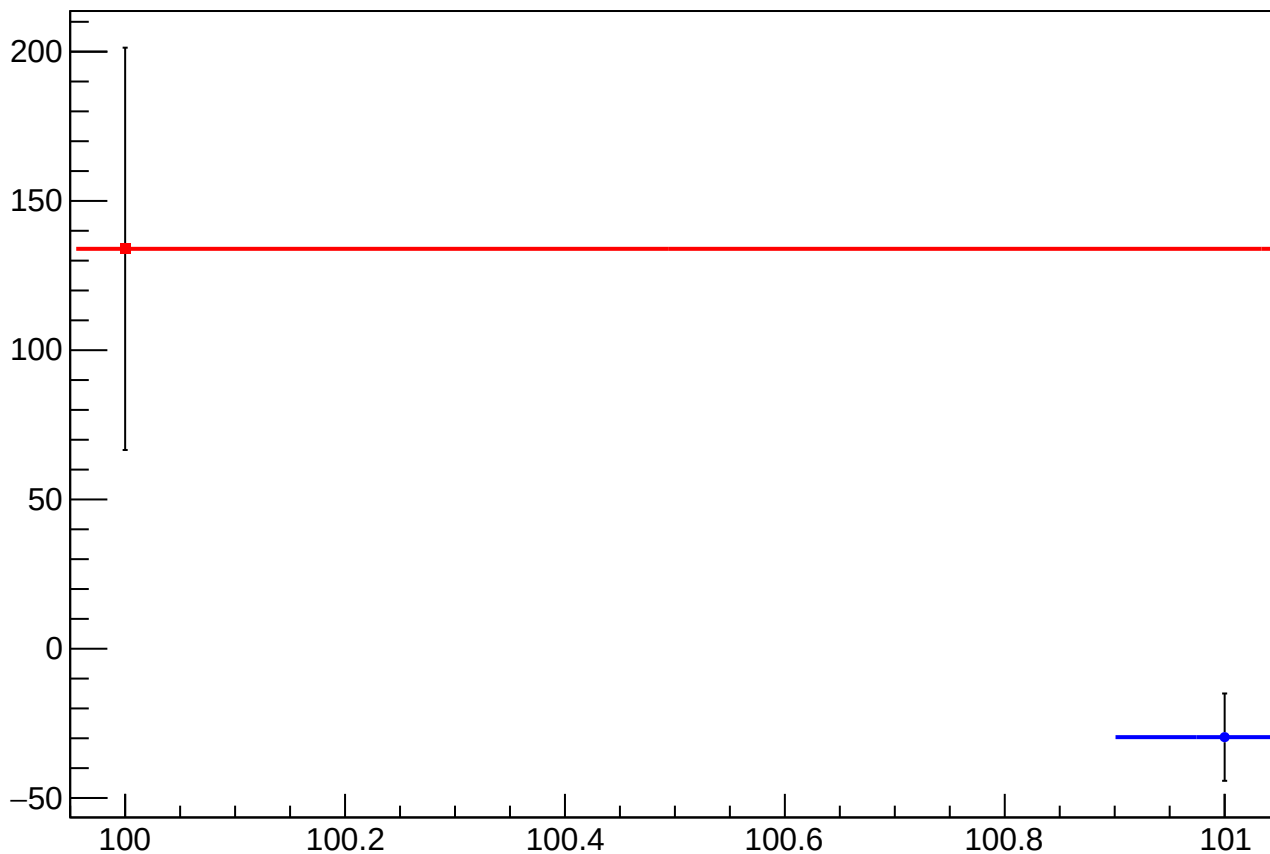
Right: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 18618.7/1

In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 18618.7/1

# diff\_bpm4aX\_mean vs Slug, Sign Corrected



Right In: -29.618 $\pm$ 14.623  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 133.954 $\pm$ 67.382  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

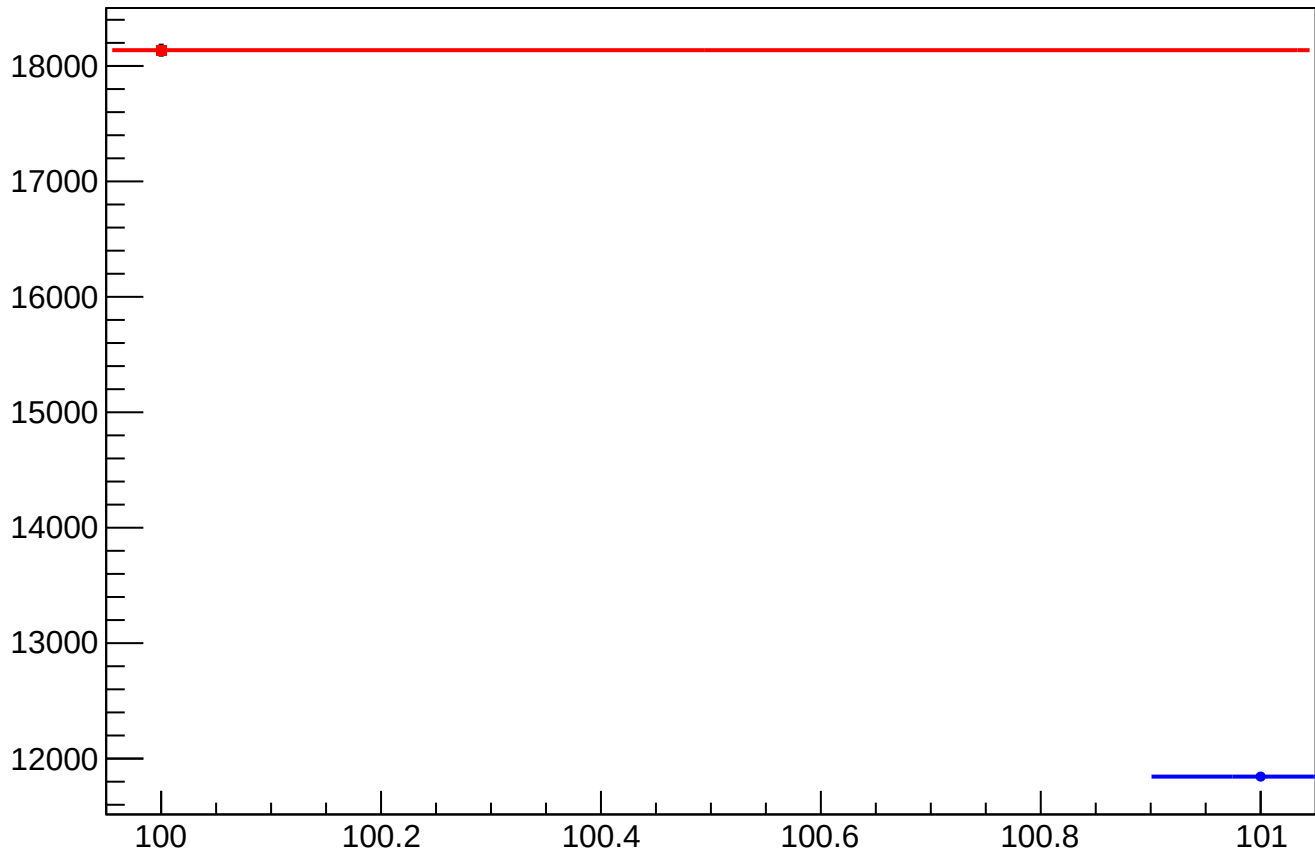
Right: -22.260 $\pm$ 14.291  $\chi^2$ /NDF: 5.6/1

In: -29.618 $\pm$ 14.623  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -22.260 $\pm$ 14.291  $\chi^2$ /NDF: 5.6/1

# diff\_bpm4aX\_rms vs Slug, Sign Corrected



Right In: 11843.965 $\pm$ 10.340  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18136.854 $\pm$ 47.647  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 12127.019 $\pm$ 10.105  $\chi^2$ /NDF: 16659.1/1

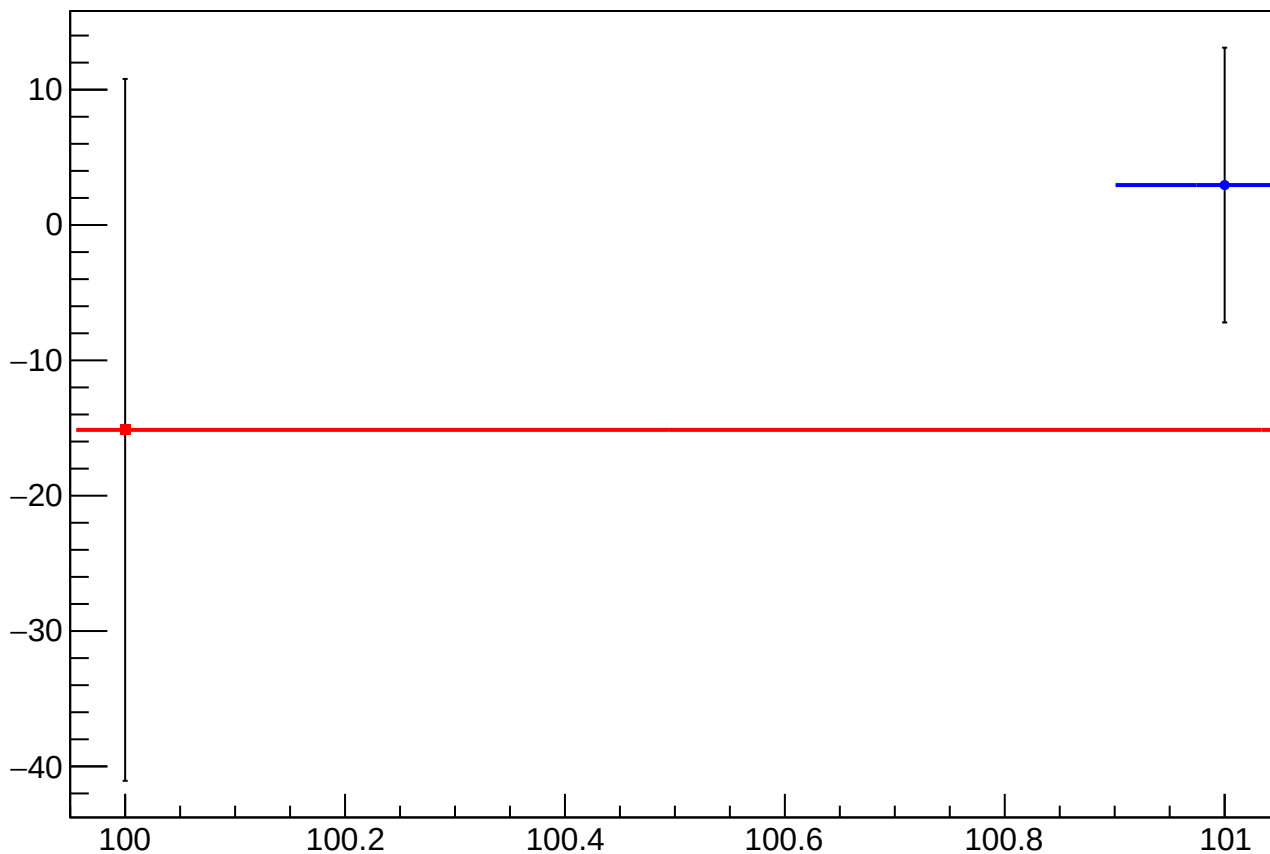
In: 11843.965 $\pm$ 10.340  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12127.019 $\pm$ 10.105  $\chi^2$ /NDF: 16659.1/1



# diff\_bpm4aY\_mean vs Slug, Sign Corrected



Right In: 2.952+/-10.152  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.136+/-25.930  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

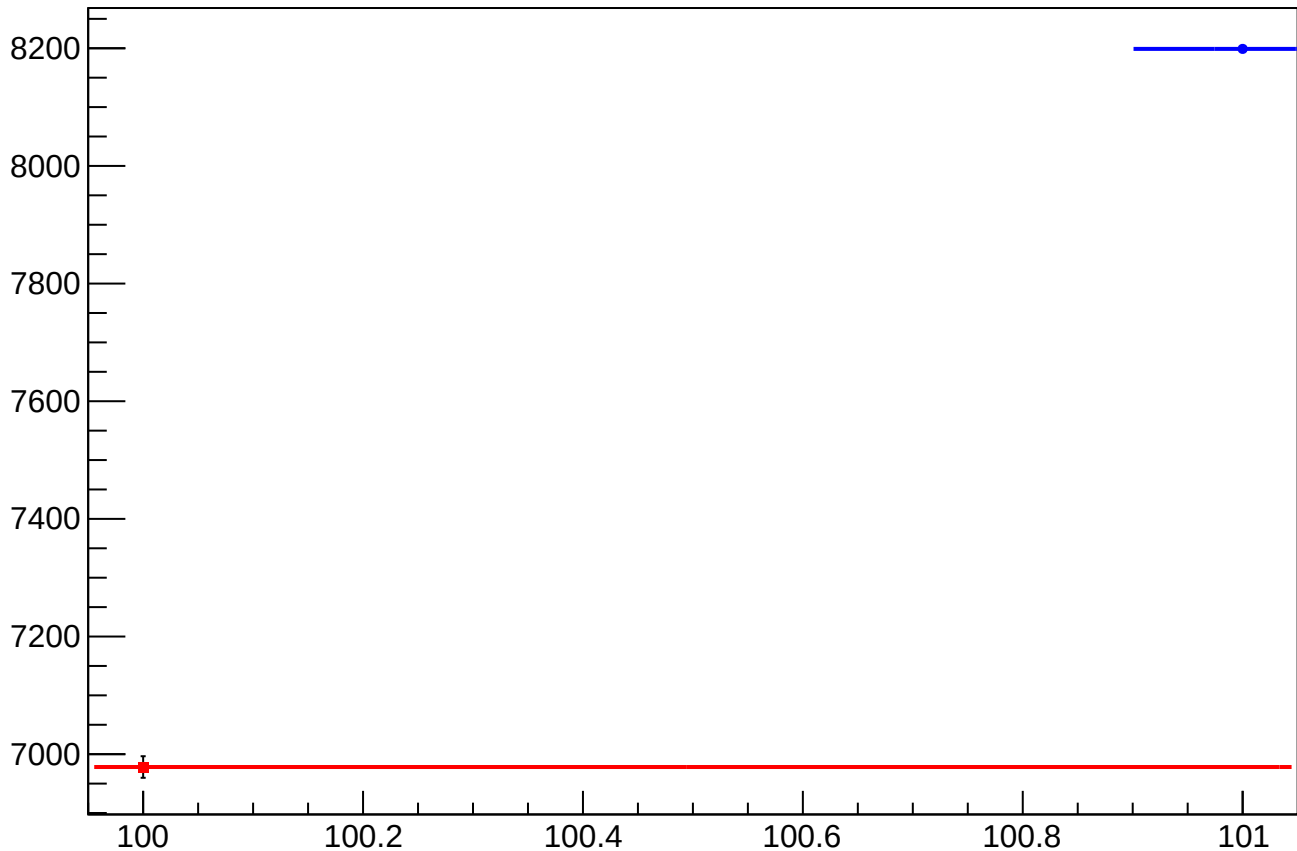
Right: 0.548+/-9.453  $\chi^2/\text{NDF}$ : 0.4/1

In: 2.952+/-10.152  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.548+/-9.453  $\chi^2/\text{NDF}$ : 0.4/1

# diff\_bpm4aY\_rms vs Slug, Sign Corrected



Right In: 8198.940 $\pm$ 7.178  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6978.193 $\pm$ 18.335  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

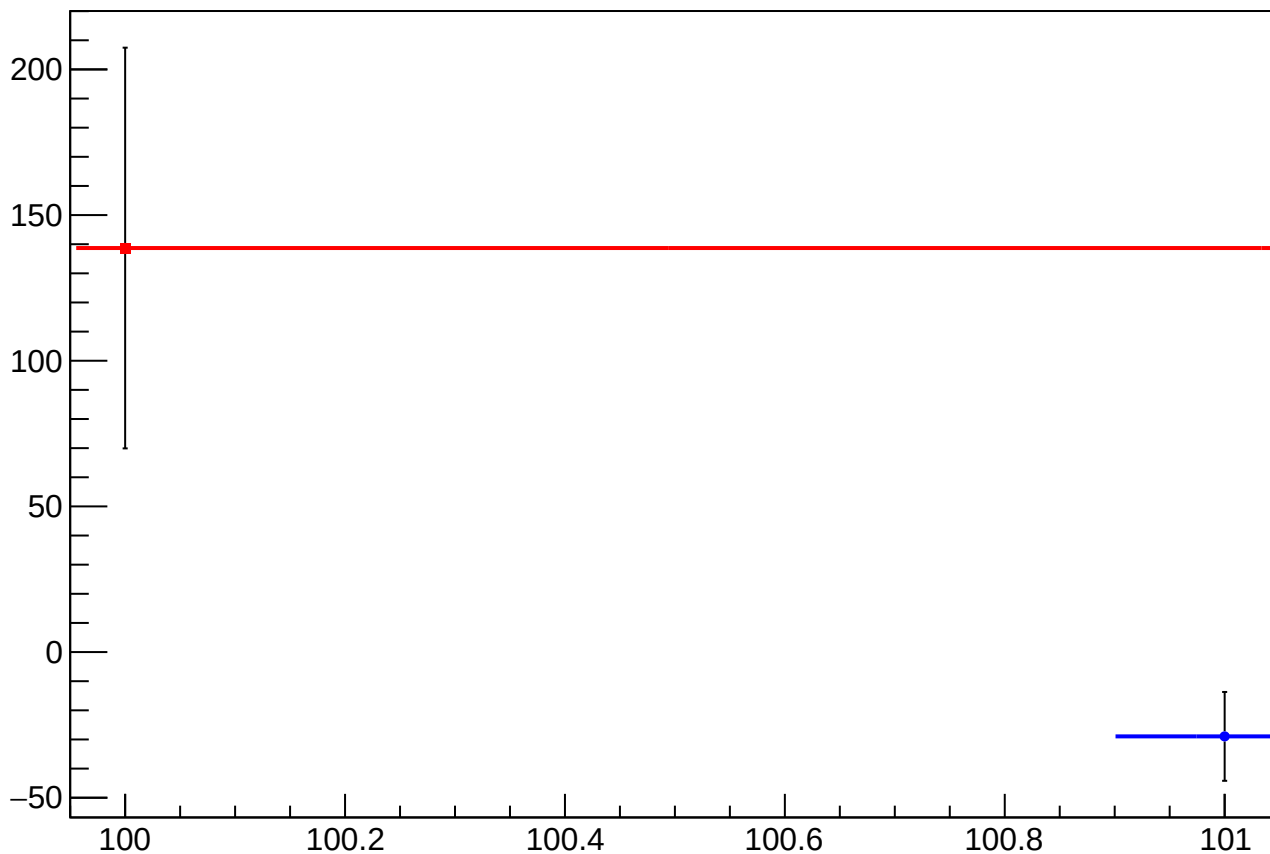
Right: 8036.693 $\pm$ 6.684  $\chi^2/\text{NDF}$ : 3843.7/1

In: 8198.940 $\pm$ 7.178  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8036.693 $\pm$ 6.684  $\chi^2/\text{NDF}$ : 3843.7/1

# diff\_bpm4eX\_mean vs Slug, Sign Corrected



Right In: -28.942+/-15.247  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 138.688+/-68.776  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

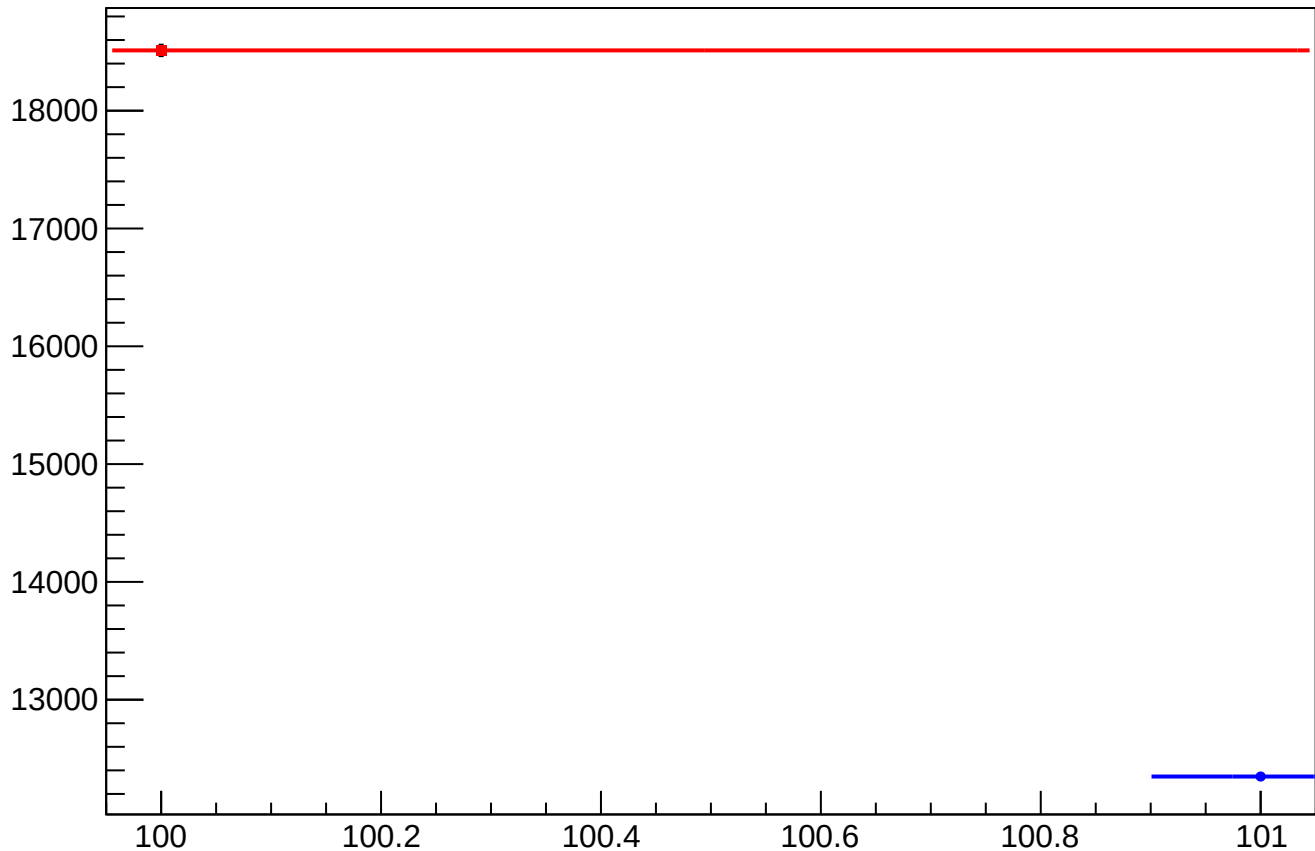
Right: -21.089+/-14.885  $\chi^2/\text{NDF}$ : 5.7/1

In: -28.942+/-15.247  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.089+/-14.885  $\chi^2/\text{NDF}$ : 5.7/1

# diff\_bpm4eX\_rms vs Slug, Sign Corrected



Right In: 12347.781 $\pm$ 10.781  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18511.894 $\pm$ 48.632  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

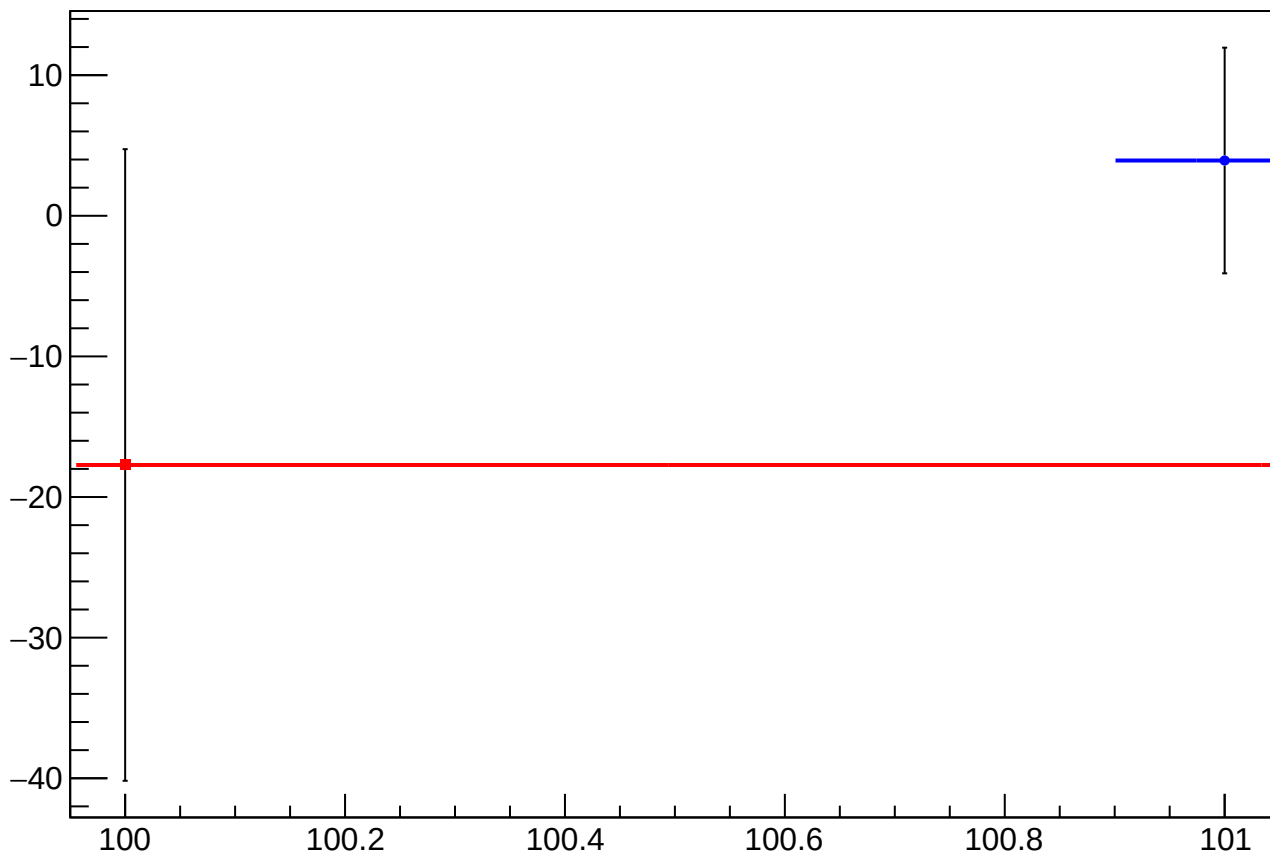
Right: 12636.531 $\pm$ 10.526  $\chi^2$ /NDF: 15313.3/1

In: 12347.781 $\pm$ 10.781  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12636.531 $\pm$ 10.526  $\chi^2$ /NDF: 15313.3/1

# diff\_bpm4eY\_mean vs Slug, Sign Corrected



Right In: 3.931+/-8.024  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17.722+/-22.459  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

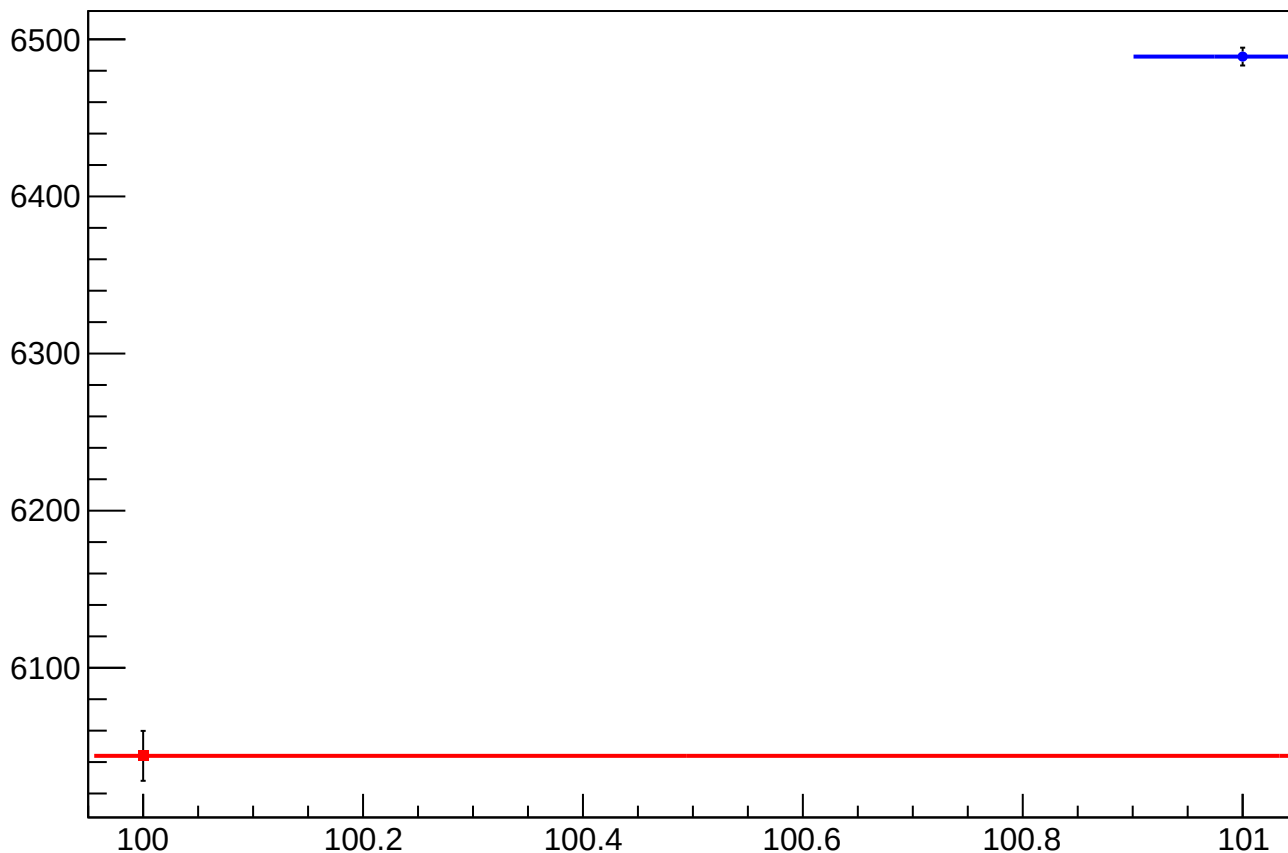
Right: 1.480+/-7.556  $\chi^2/\text{NDF}$ : 0.8/1

In: 3.931+/-8.024  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.480+/-7.556  $\chi^2/\text{NDF}$ : 0.8/1

# diff\_bpm4eY\_rms vs Slug, Sign Corrected



Right In: 6489.010 $\pm$ 5.674  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6043.961 $\pm$ 15.881  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

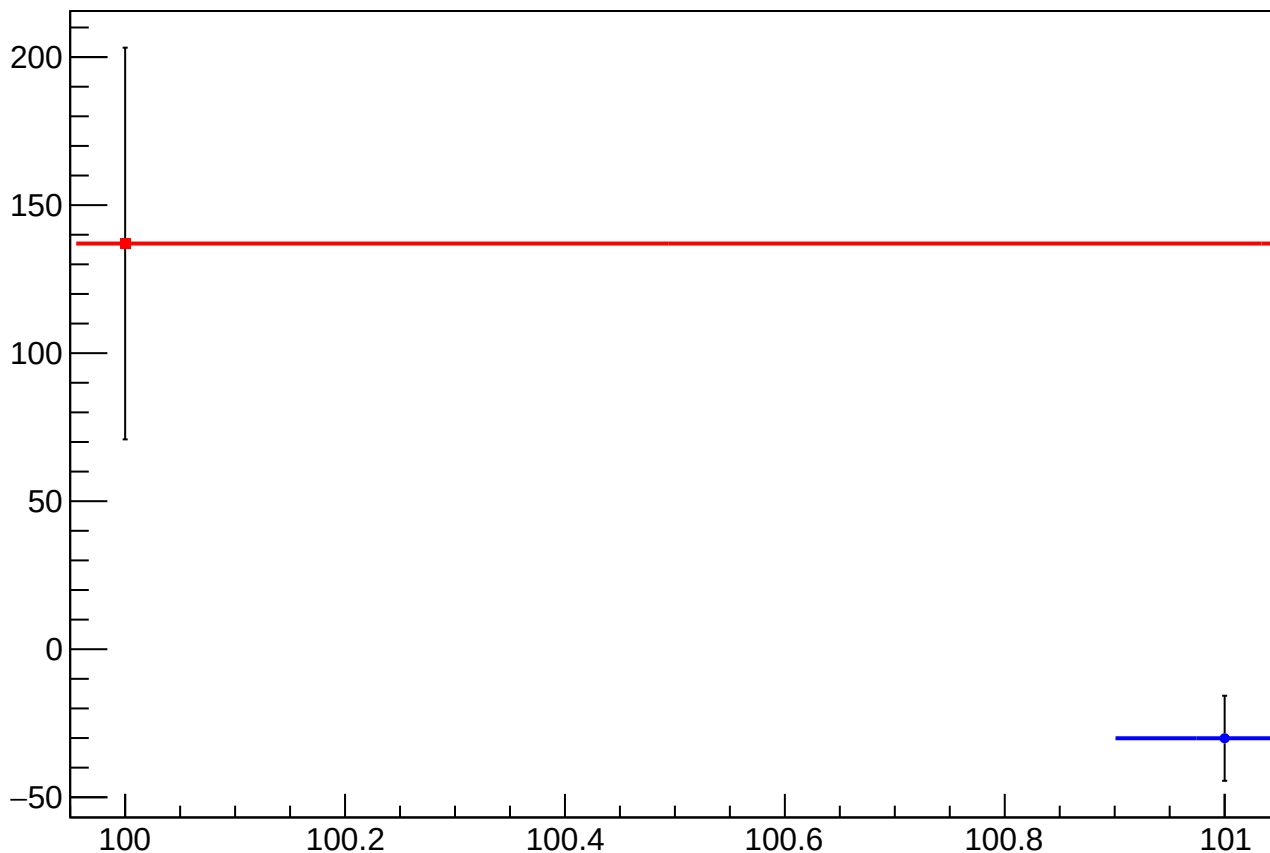
Right: 6438.628 $\pm$ 5.343  $\chi^2/\text{NDF}$ : 696.5/1

In: 6489.010 $\pm$ 5.674  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6438.628 $\pm$ 5.343  $\chi^2/\text{NDF}$ : 696.5/1

# diff\_bpm4acX\_mean vs Slug, Sign Corrected



Right In: -30.074 $\pm$ 14.368  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 137.032 $\pm$ 66.153  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

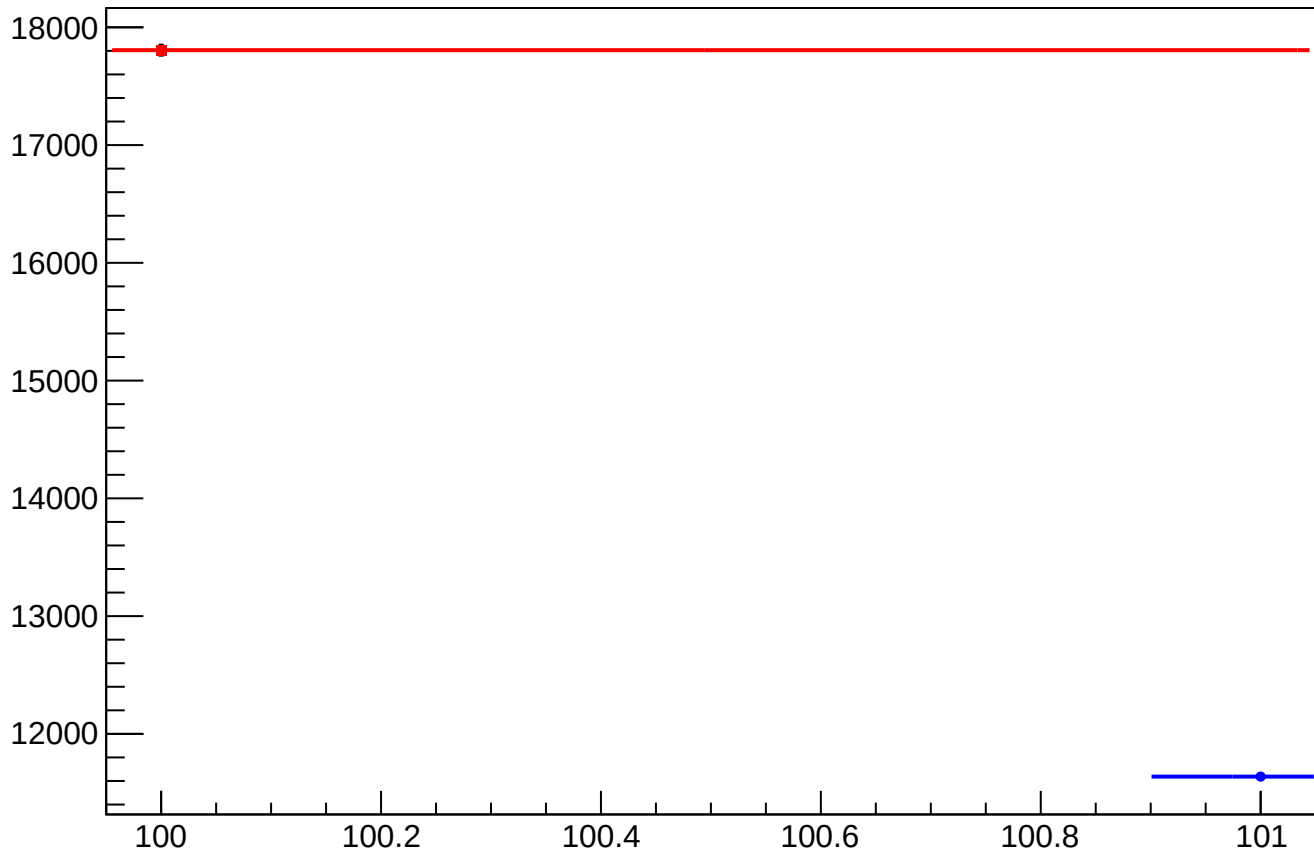
Right: -22.546 $\pm$ 14.041  $\chi^2$ /NDF: 6.1/1

In: -30.074 $\pm$ 14.368  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -22.546 $\pm$ 14.041  $\chi^2$ /NDF: 6.1/1

# diff\_bpm4acX\_rms vs Slug, Sign Corrected



Right In: 11637.202 $\pm$ 10.160  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17805.879 $\pm$ 46.777  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 11915.086 $\pm$ 9.928  $\chi^2$ /NDF: 16607.3/1

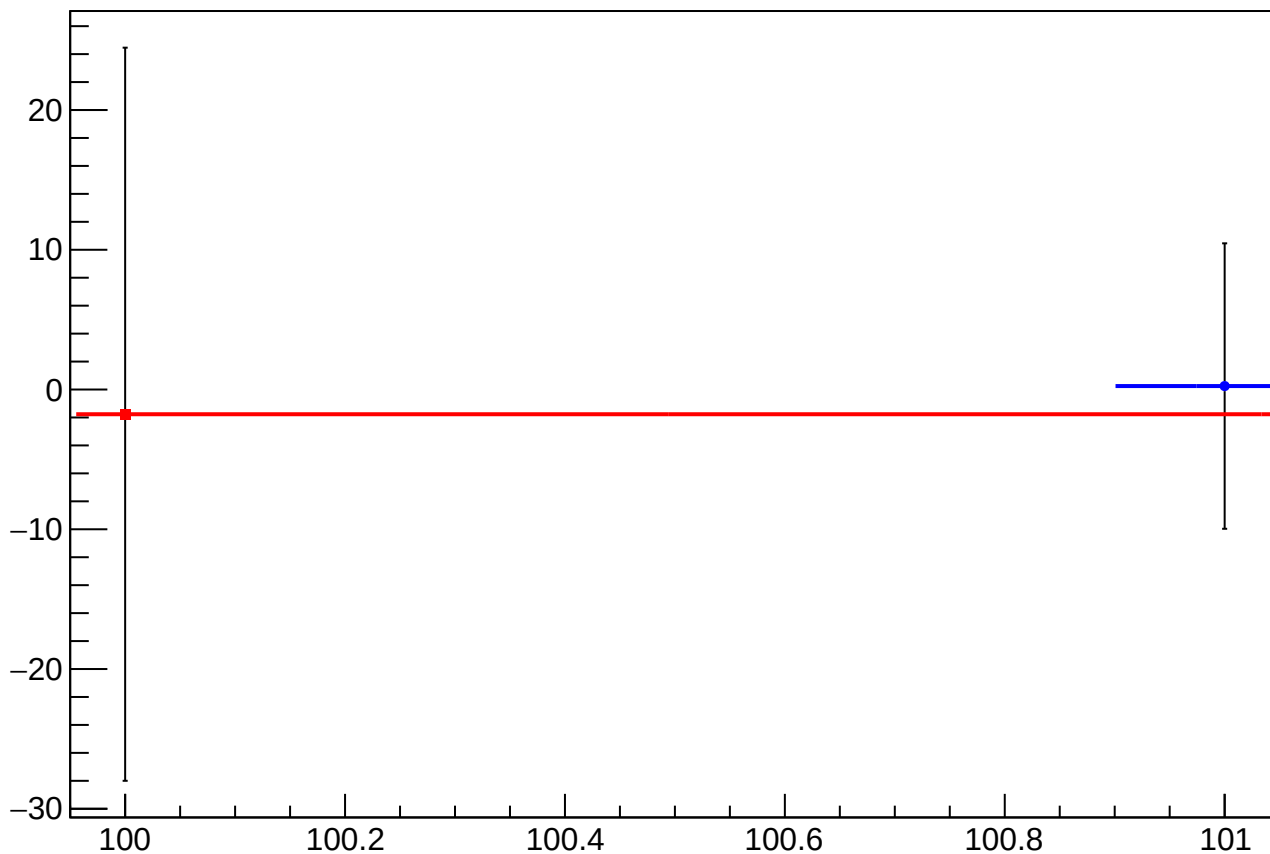
In: 11637.202 $\pm$ 10.160  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11915.086 $\pm$ 9.928  $\chi^2$ /NDF: 16607.3/1



# diff\_bpm4acY\_mean vs Slug, Sign Corrected



Right In: 0.248+/-10.213  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.768+/-26.230  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

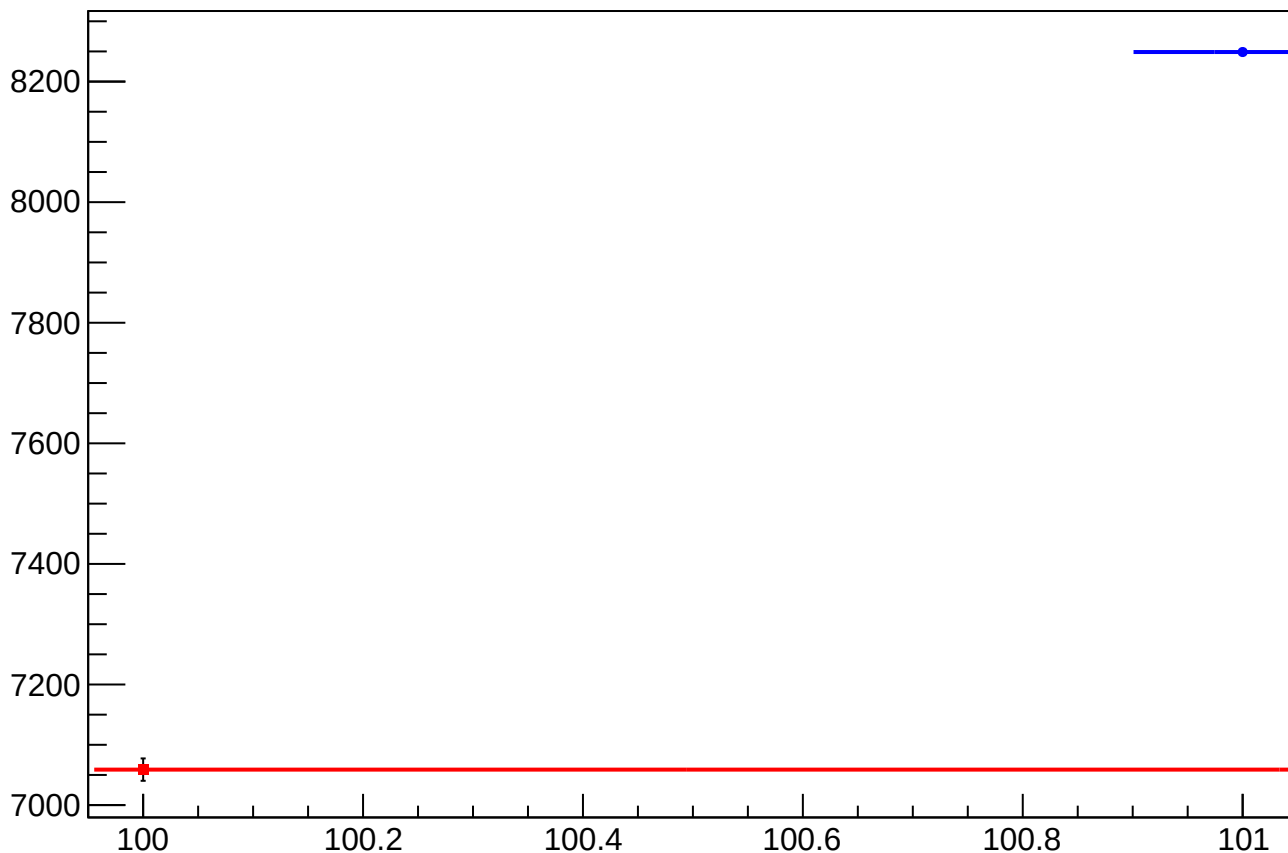
Right: -0.018+/-9.517  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.248+/-10.213  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.018+/-9.517  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_bpm4acY\_rms vs Slug, Sign Corrected



Right In: 8249.019 $\pm$ 7.222  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7058.838 $\pm$ 18.547  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

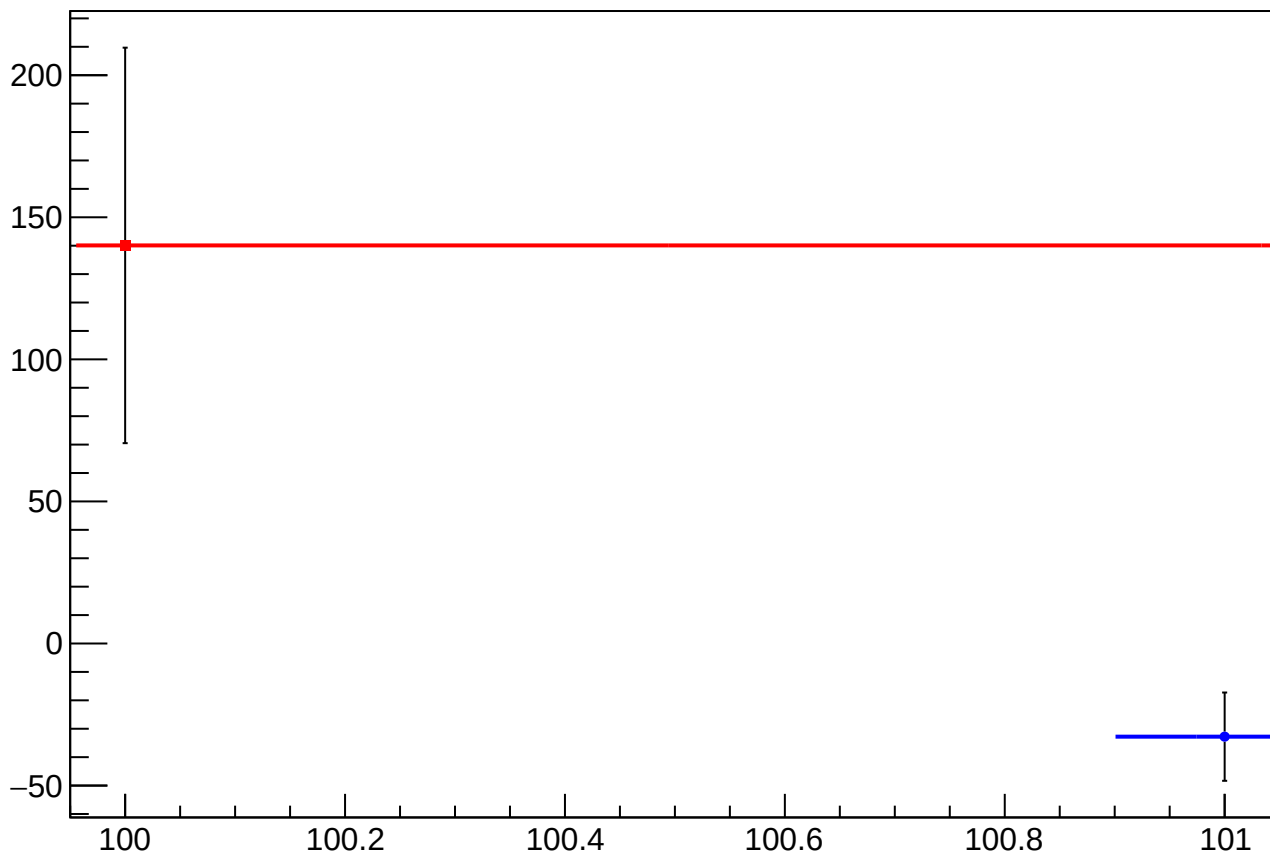
Right: 8092.334 $\pm$ 6.730  $\chi^2/\text{NDF}$ : 3575.7/1

In: 8249.019 $\pm$ 7.222  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8092.334 $\pm$ 6.730  $\chi^2/\text{NDF}$ : 3575.7/1

# diff\_bpm4ecX\_mean vs Slug, Sign Corrected



Right In: -32.786 $\pm$ 15.534  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 140.099 $\pm$ 69.592  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

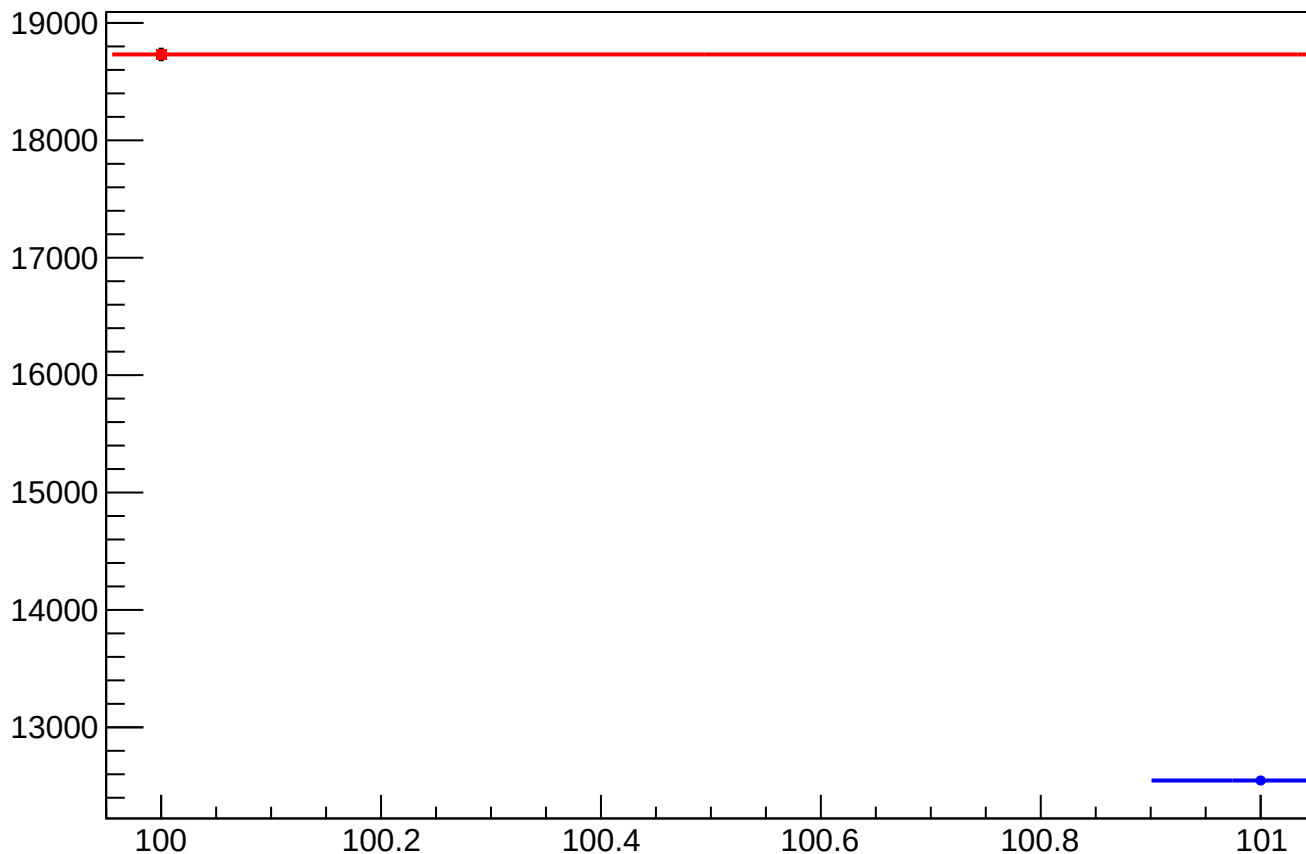
Right: -24.581 $\pm$ 15.161  $\chi^2$ /NDF: 5.9/1

In: -32.786 $\pm$ 15.534  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -24.581 $\pm$ 15.161  $\chi^2$ /NDF: 5.9/1

# diff\_bpm4ecX\_rms vs Slug, Sign Corrected



Right In: 12546.900 $\pm$ 10.984  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18731.721 $\pm$ 49.209  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

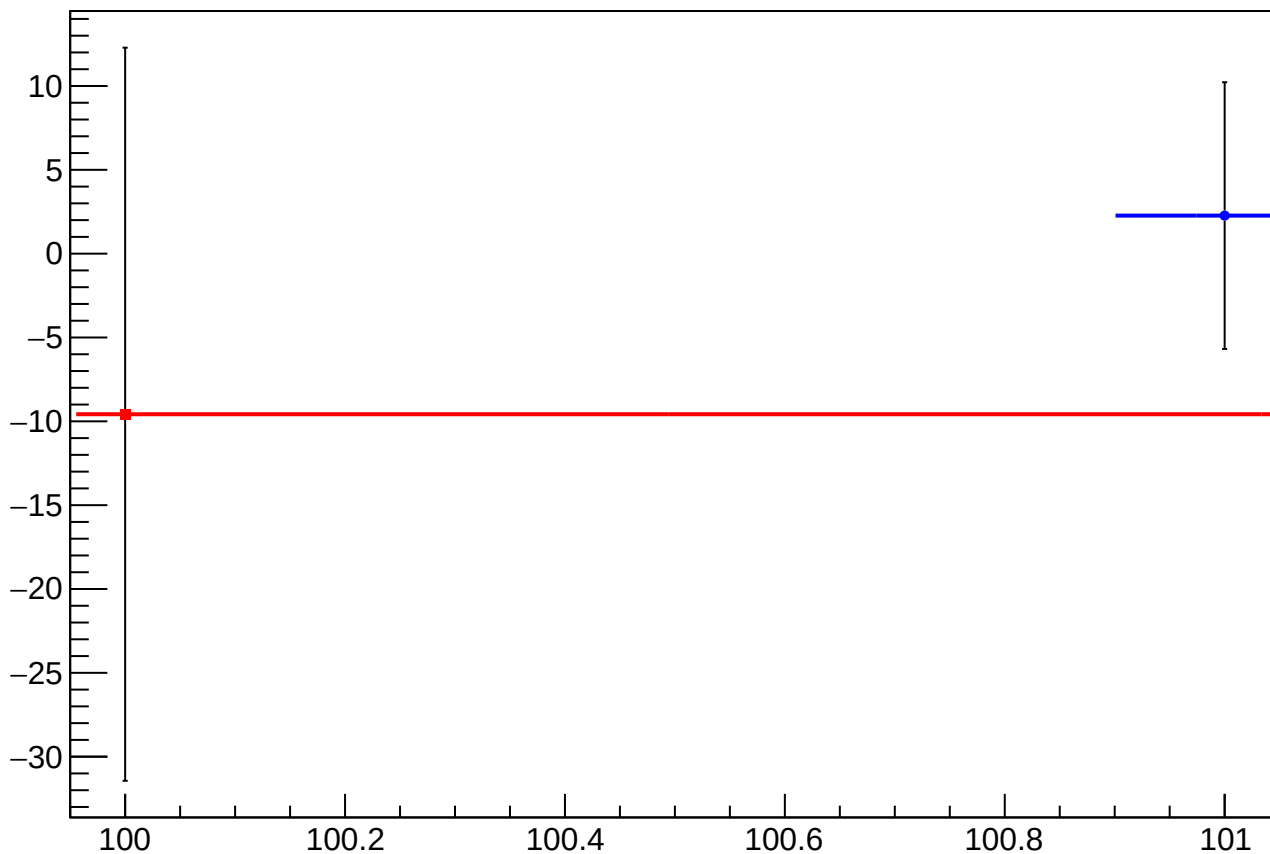
Right: 12840.417 $\pm$ 10.720  $\chi^2/\text{NDF}$ : 15046.9/1

In: 12546.900 $\pm$ 10.984  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12840.417 $\pm$ 10.720  $\chi^2/\text{NDF}$ : 15046.9/1

# diff\_bpm4ecY\_mean vs Slug, Sign Corrected



Right In: 2.270+/-7.954  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.577+/-21.862  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

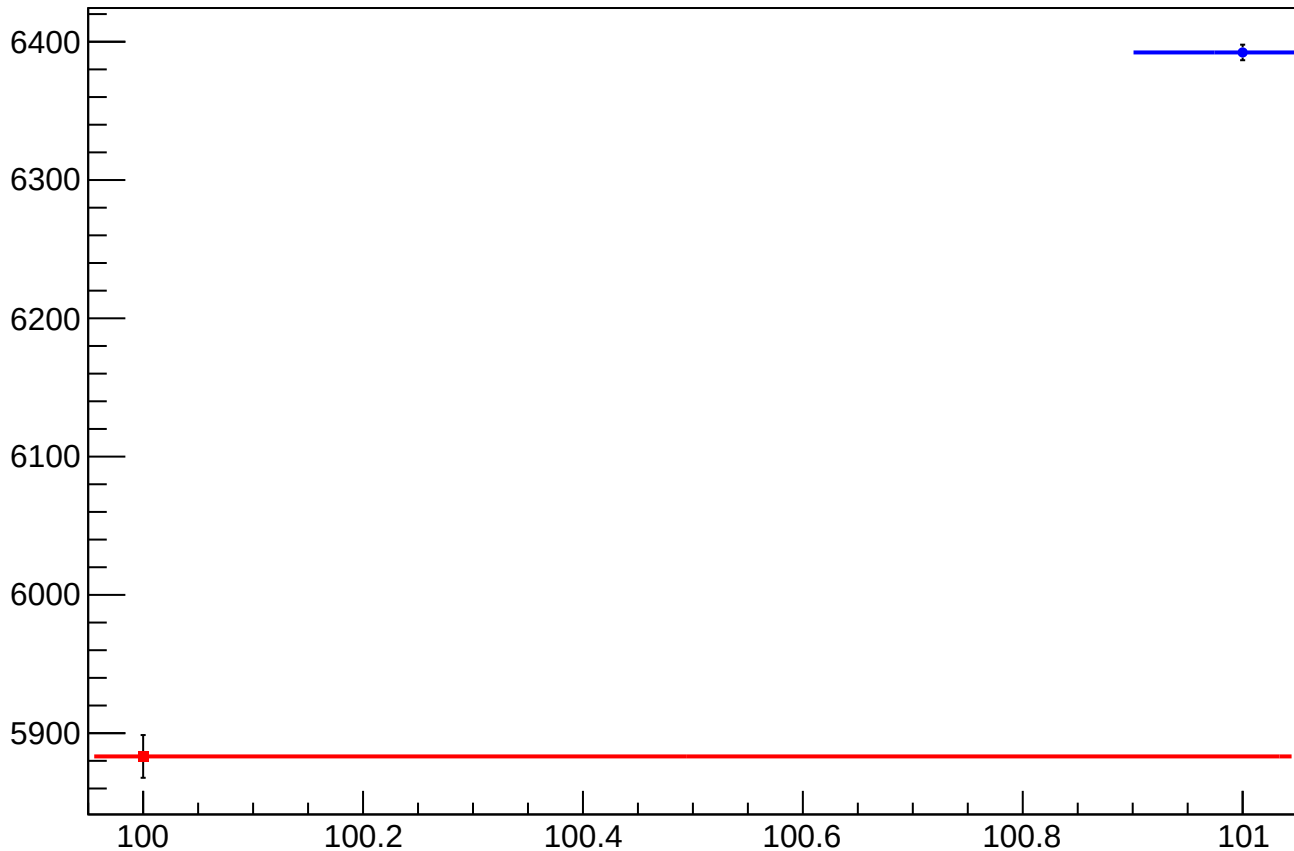
Right: 0.885+/-7.474  $\chi^2/\text{NDF}$ : 0.3/1

In: 2.270+/-7.954  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.885+/-7.474  $\chi^2/\text{NDF}$ : 0.3/1

# diff\_bpm4ecY\_rms vs Slug, Sign Corrected



Right In: 6392.255 $\pm$ 5.624  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5883.197 $\pm$ 15.459  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

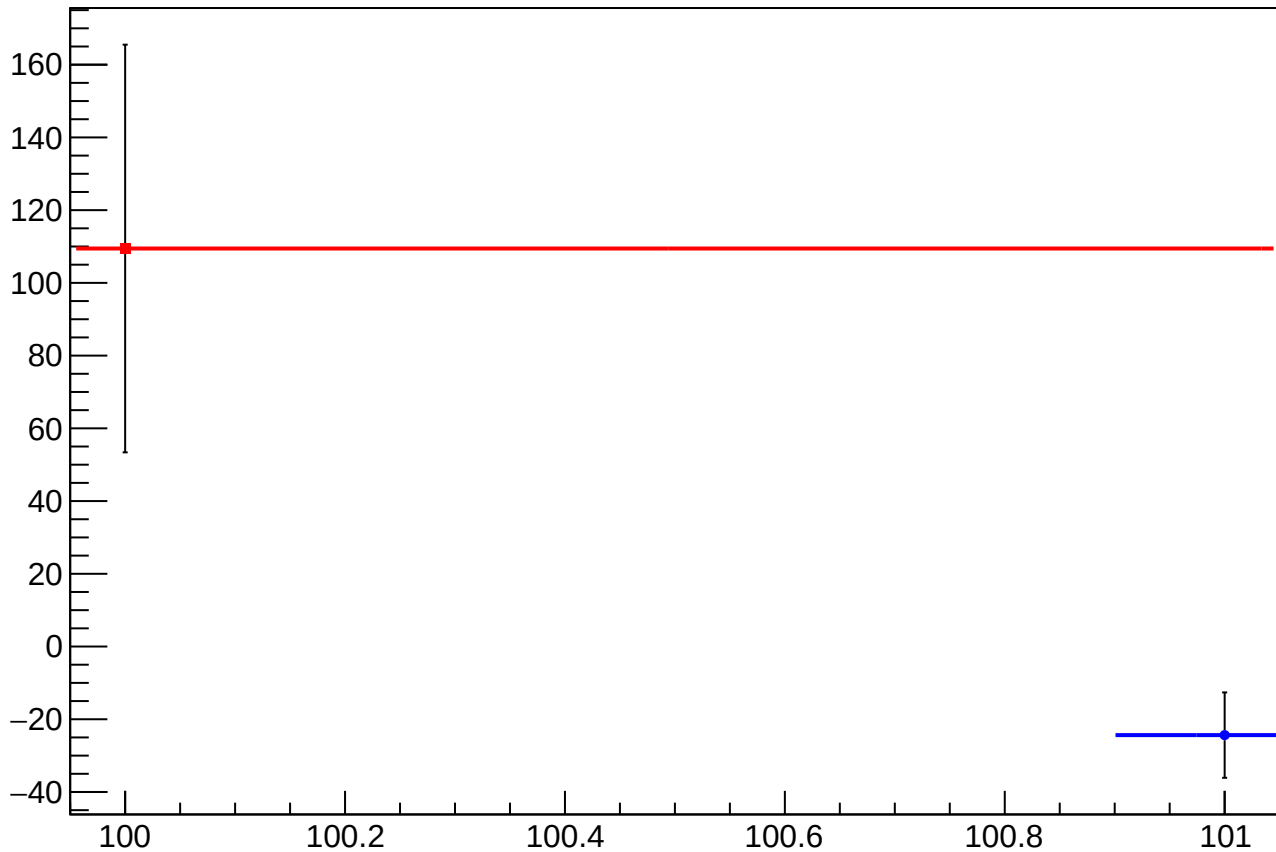
Right: 6332.753 $\pm$ 5.285  $\chi^2/\text{NDF}$ : 957.6/1

In: 6392.255 $\pm$ 5.624  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6332.753 $\pm$ 5.285  $\chi^2/\text{NDF}$ : 957.6/1

# diff\_bpm1X\_mean vs Slug, Sign Corrected



Right In: -24.361+/-11.739  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 109.450+/-56.055  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

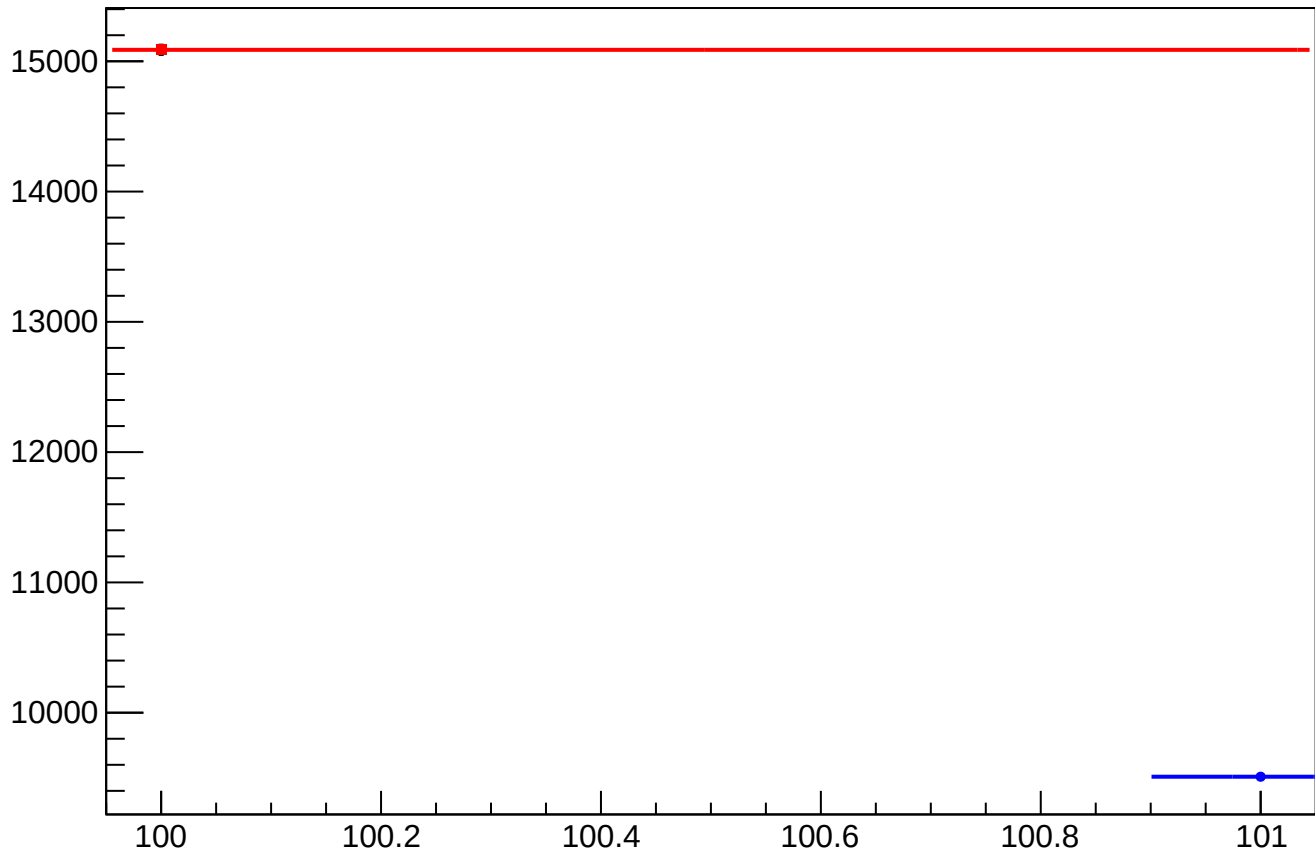
Right: -18.739+/-11.489  $\chi^2$ /NDF: 5.5/1

In: -24.361+/-11.739  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -18.739+/-11.489  $\chi^2$ /NDF: 5.5/1

# diff\_bpm1X\_rms vs Slug, Sign Corrected



Right In: 9508.598 $\pm$ 8.301  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 15087.851 $\pm$ 39.637  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 9742.994 $\pm$ 8.124  $\chi^2$ /NDF: 18980.9/1

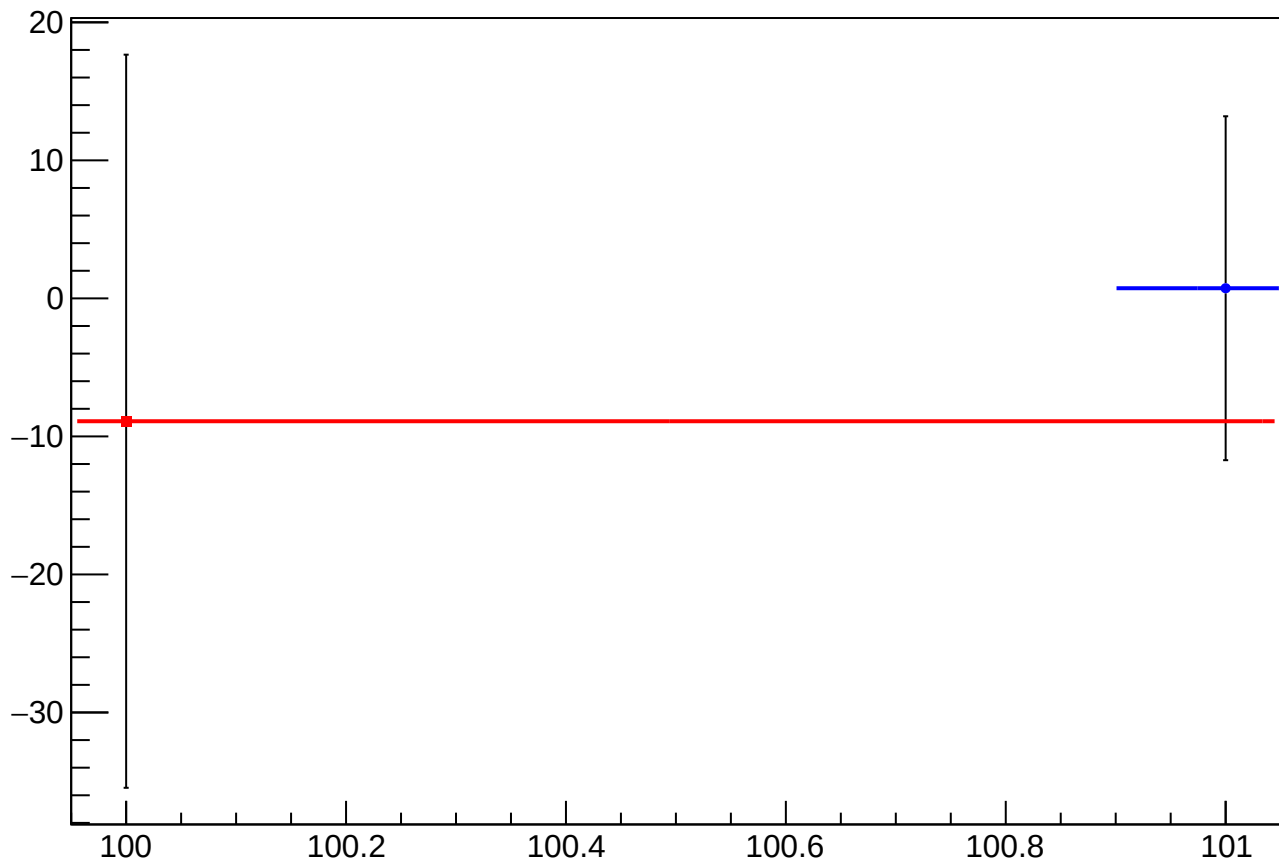
In: 9508.598 $\pm$ 8.301  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9742.994 $\pm$ 8.124  $\chi^2$ /NDF: 18980.9/1



# diff\_bpm1Y\_mean vs Slug, Sign Corrected



Right In: 0.736+/-12.458  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.900+/-26.557  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

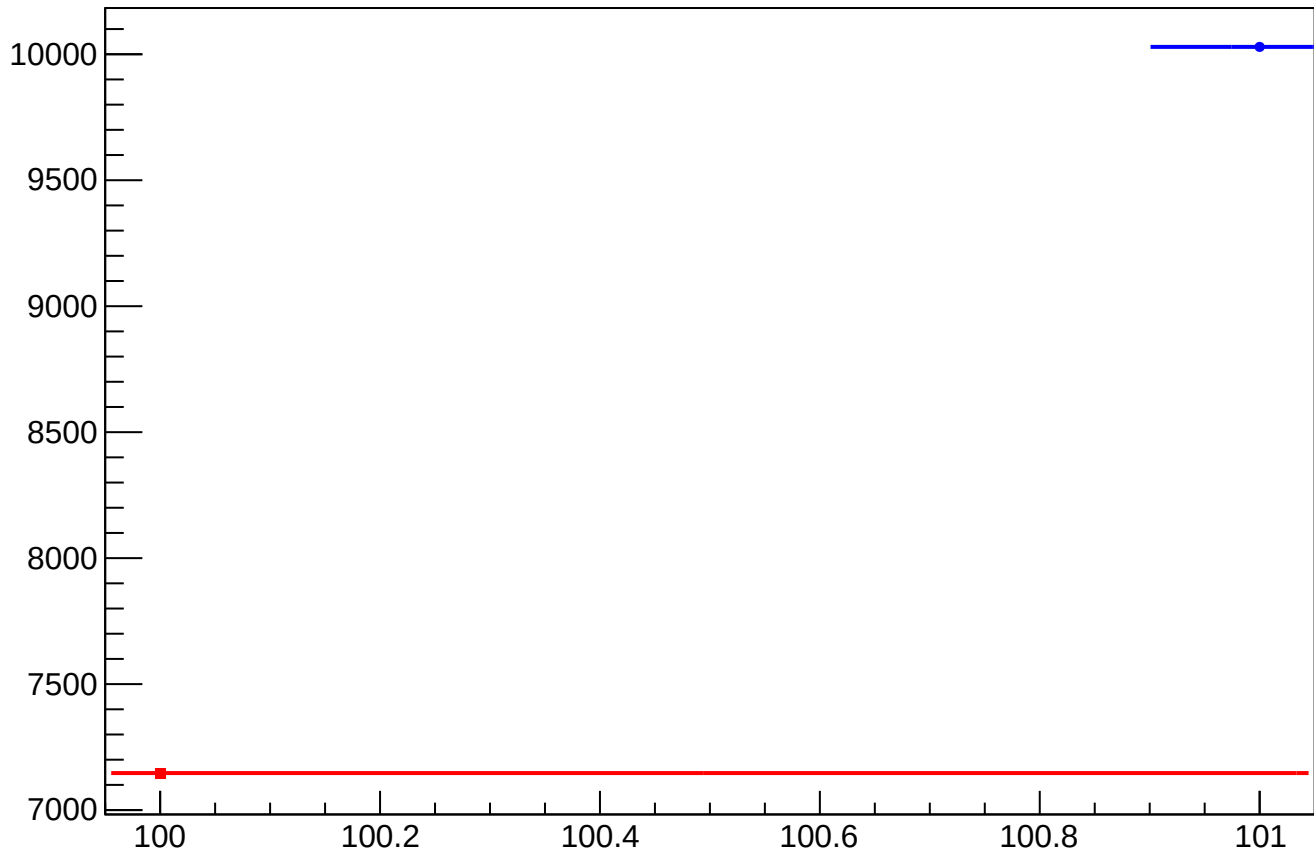
Right: -1.003+/-11.279  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.736+/-12.458  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.003+/-11.279  $\chi^2/\text{NDF}$ : 0.1/1

# diff\_bpm1Y\_rms vs Slug, Sign Corrected



Right In: 10029.235 $\pm$ 8.809  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7146.928 $\pm$ 18.779  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

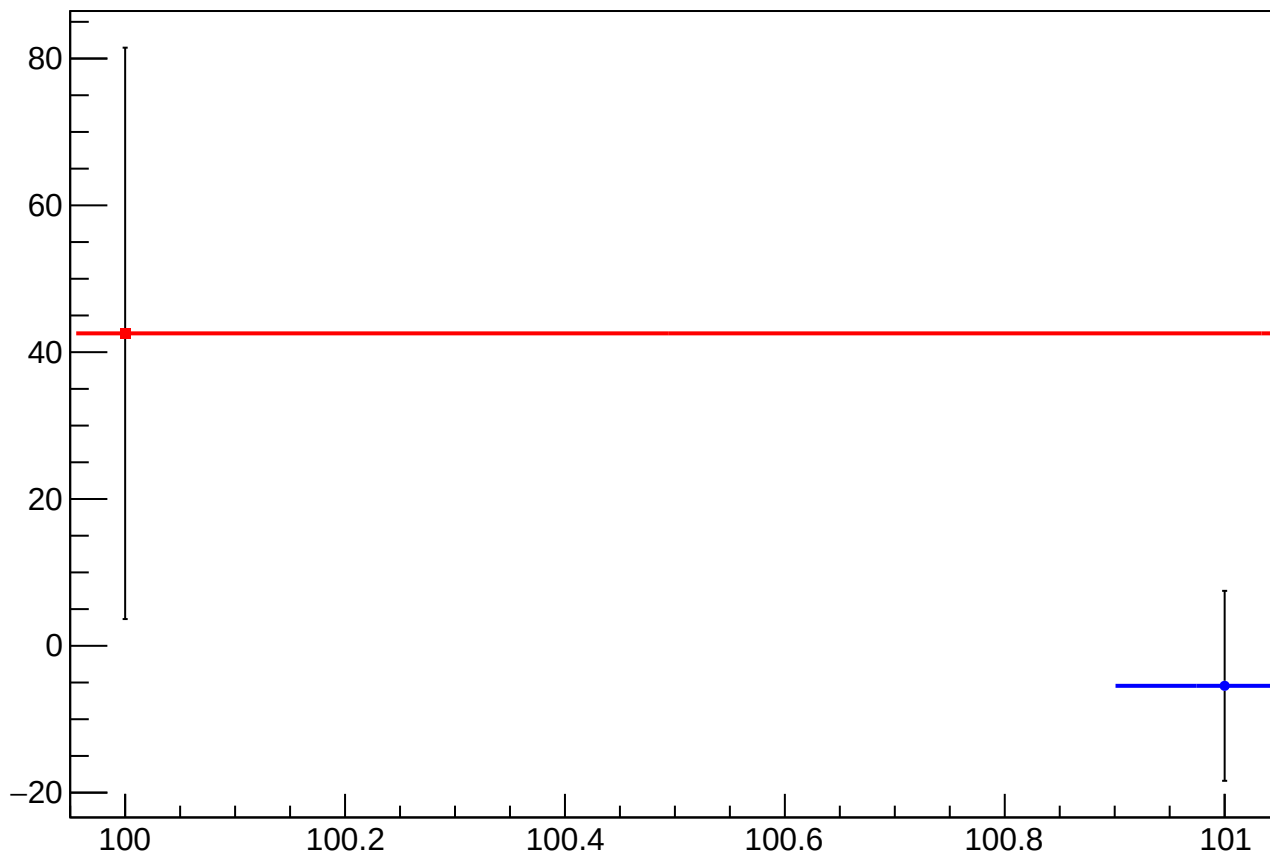
Right: 9509.360 $\pm$ 7.975  $\chi^2$ /NDF: 19309.7/1

In: 10029.235 $\pm$ 8.809  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9509.360 $\pm$ 7.975  $\chi^2$ /NDF: 19309.7/1

# diff\_bpm11X\_mean vs Slug, Sign Corrected



Right In: -5.450+/-12.937  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.563+/-38.917  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

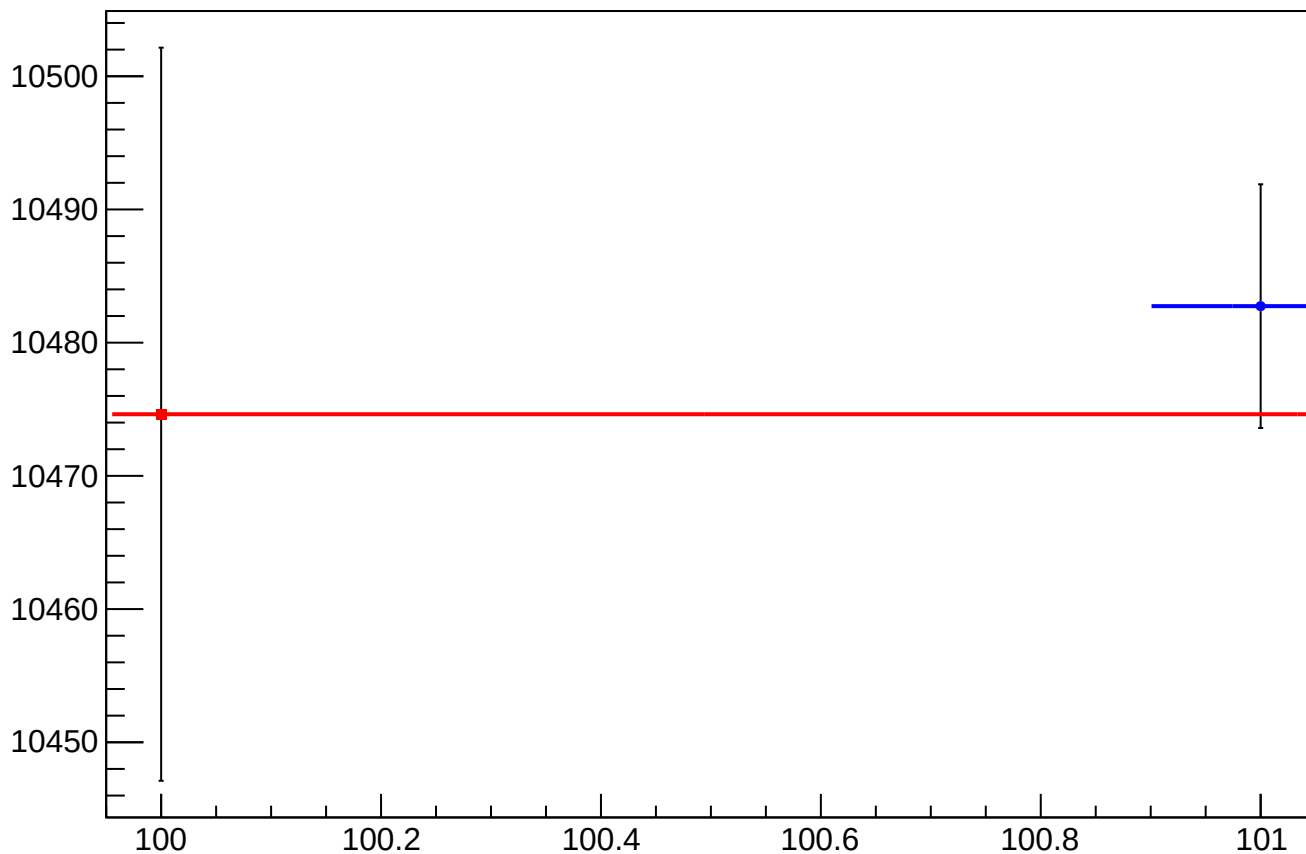
Right: -0.672+/-12.277  $\chi^2/\text{NDF}$ : 1.4/1

In: -5.450+/-12.937  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.672+/-12.277  $\chi^2/\text{NDF}$ : 1.4/1

# diff\_bpm11X\_rms vs Slug, Sign Corrected



Right In: 10482.742 $\pm$ 9.148  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10474.627 $\pm$ 27.519  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

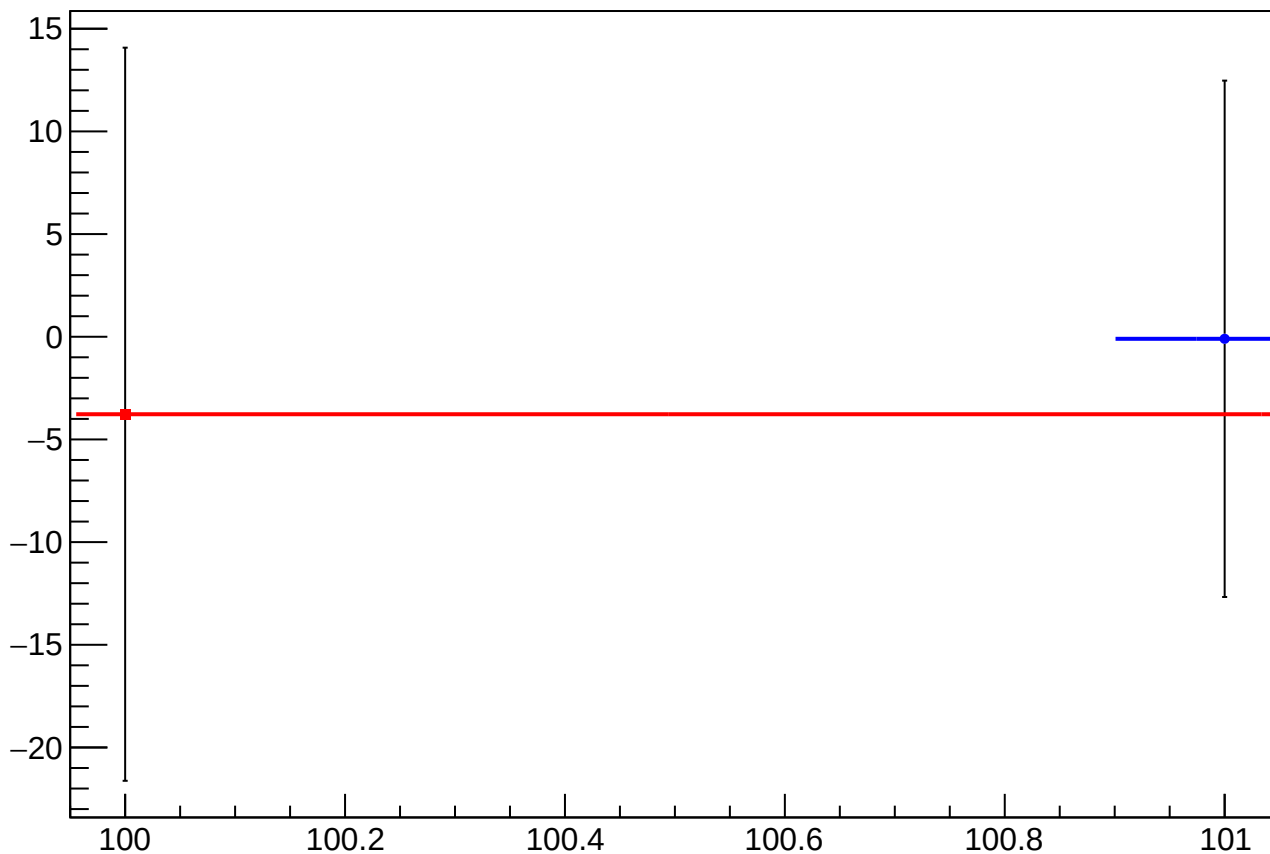
Right: 10481.935 $\pm$ 8.681  $\chi^2$ /NDF: 0.1/1

In: 10482.742 $\pm$ 9.148  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10481.935 $\pm$ 8.681  $\chi^2$ /NDF: 0.1/1

# diff\_bpm11Y\_mean vs Slug, Sign Corrected



Right In: -0.100+/-12.573  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.773+/-17.850  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

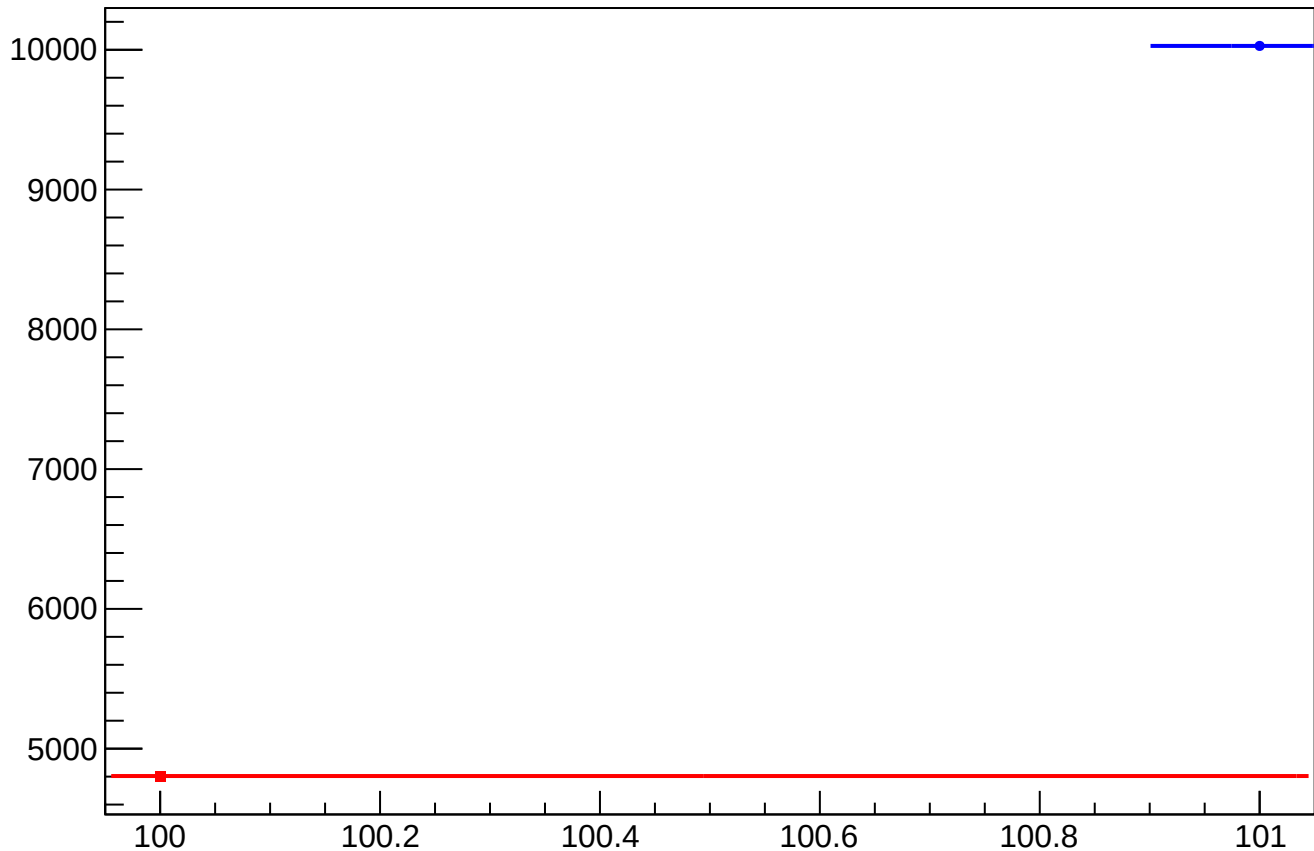
Right: -1.318+/-10.279  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.100+/-12.573  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.318+/-10.279  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_bpm11Y\_rms vs Slug, Sign Corrected



Right In: 10027.736 $\pm$ 8.890  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4804.183 $\pm$ 12.622  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

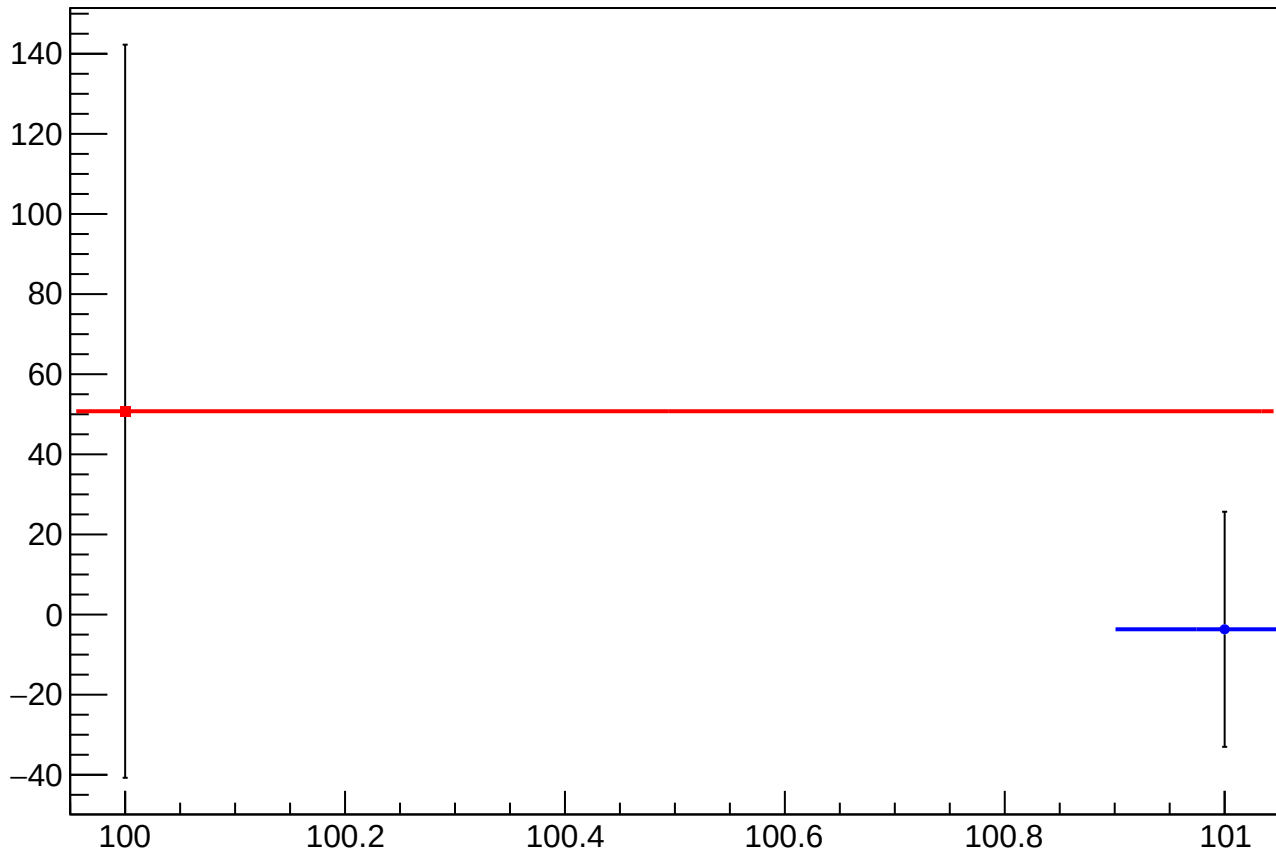
Right: 8295.632 $\pm$ 7.268  $\chi^2$ /NDF: 114475.0/1

In: 10027.736 $\pm$ 8.890  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8295.632 $\pm$ 7.268  $\chi^2$ /NDF: 114475.0/1

# diff\_bpm12X\_mean vs Slug, Sign Corrected



Right In: -3.676+/-29.346  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 50.760+/-91.510  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

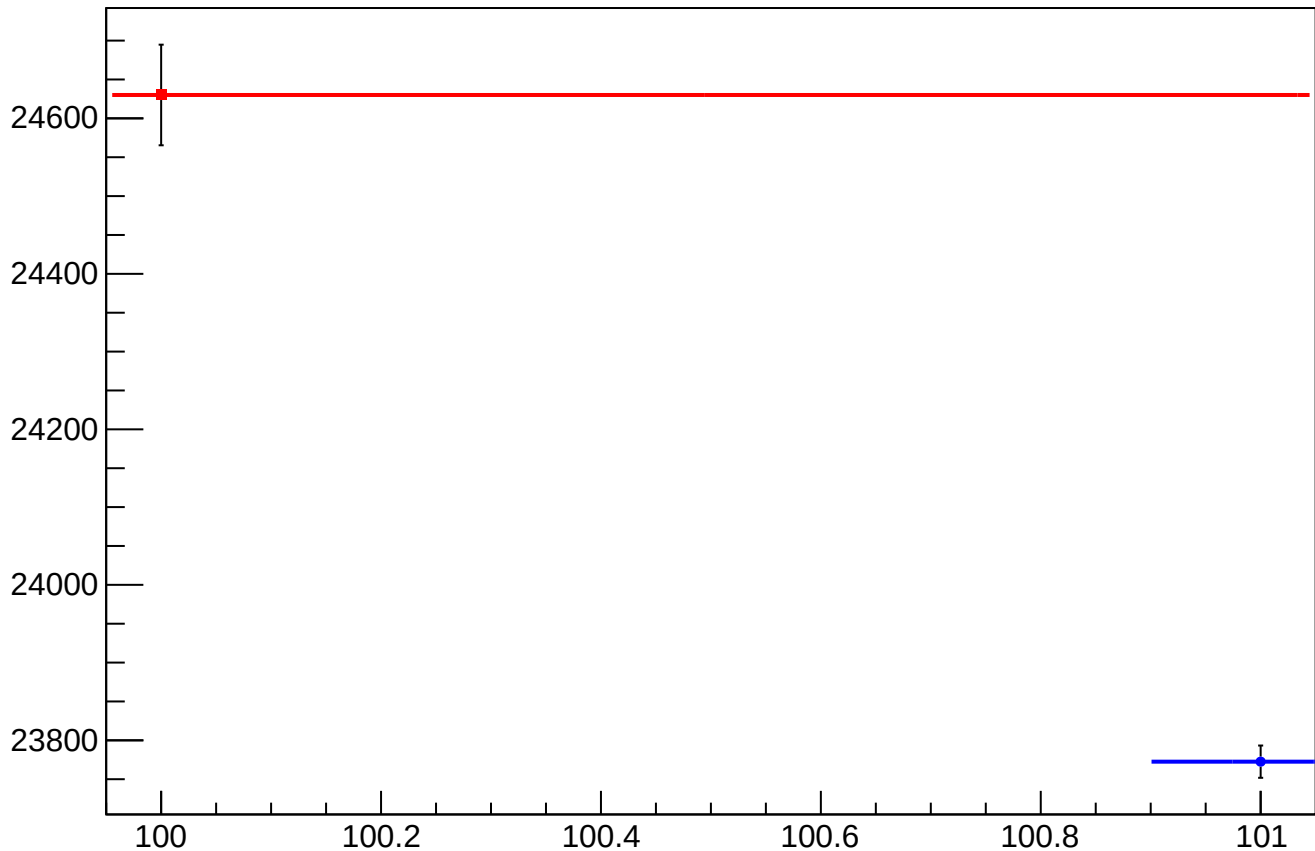
Right: 1.400+/-27.944  $\chi^2/\text{NDF}$ : 0.3/1

In: -3.676+/-29.346  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.400+/-27.944  $\chi^2/\text{NDF}$ : 0.3/1

# diff\_bpm12X\_rms vs Slug, Sign Corrected



Right In: 23772.559+/-20.751  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 24630.058+/-64.707  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 23852.520+/-19.759  $\chi^2$ /NDF: 159.2/1

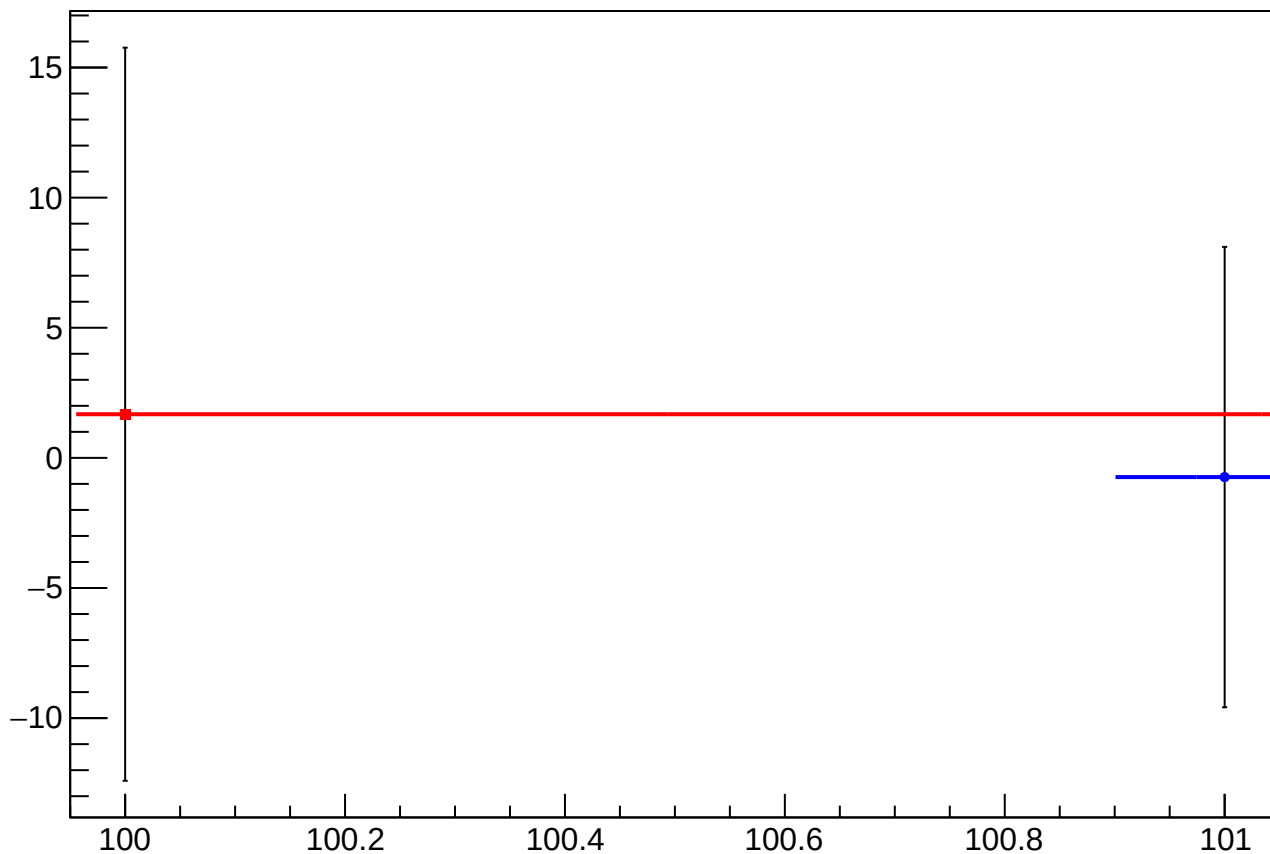
In: 23772.559+/-20.751  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 23852.520+/-19.759  $\chi^2$ /NDF: 159.2/1



# diff\_bpm12Y\_mean vs Slug, Sign Corrected



Right In: -0.738+/-8.845  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.677+/-14.086  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

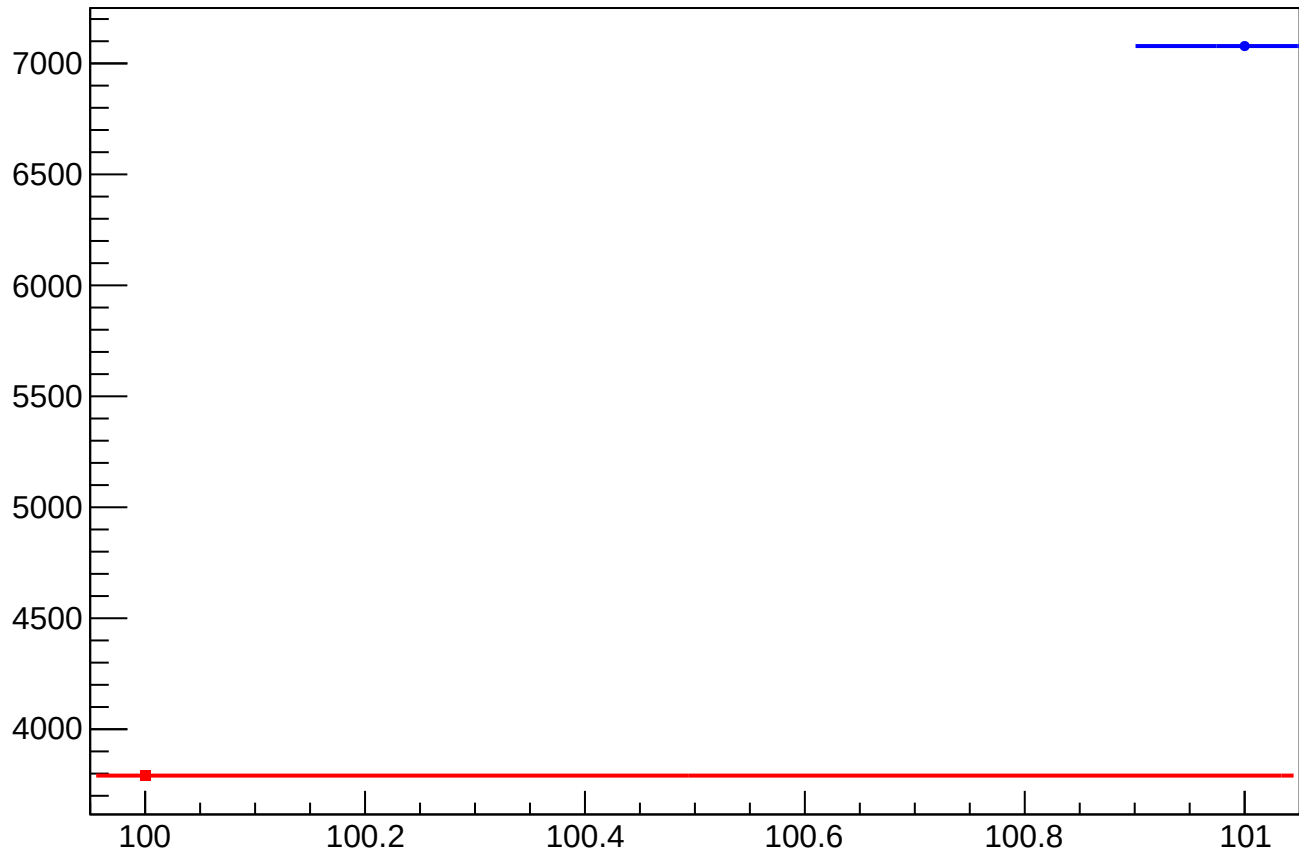
Right: -0.055+/-7.491  $\chi^2$ /NDF: 0.0/1

In: -0.738+/-8.845  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.055+/-7.491  $\chi^2$ /NDF: 0.0/1

# diff\_bpm12Y\_rms vs Slug, Sign Corrected



Right In: 7078.233 $\pm$ 6.255  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3791.042 $\pm$ 9.960  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

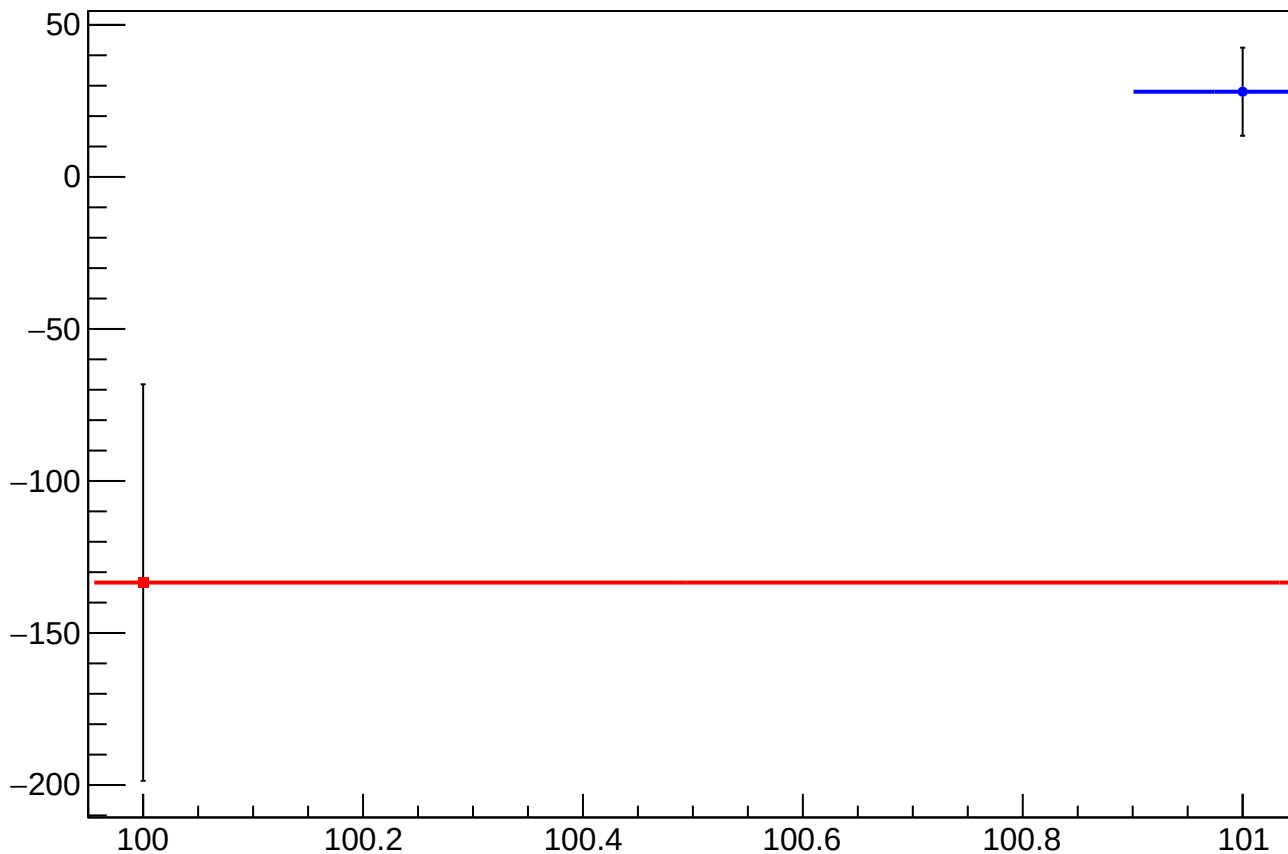
Right: 6148.560 $\pm$ 5.297  $\chi^2$ /NDF: 78119.9/1

In: 7078.233 $\pm$ 6.255  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6148.560 $\pm$ 5.297  $\chi^2$ /NDF: 78119.9/1

# diff\_bpm16X\_mean vs Slug, Sign Corrected



Right In: 28.022+/-14.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -133.412+/-65.200  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

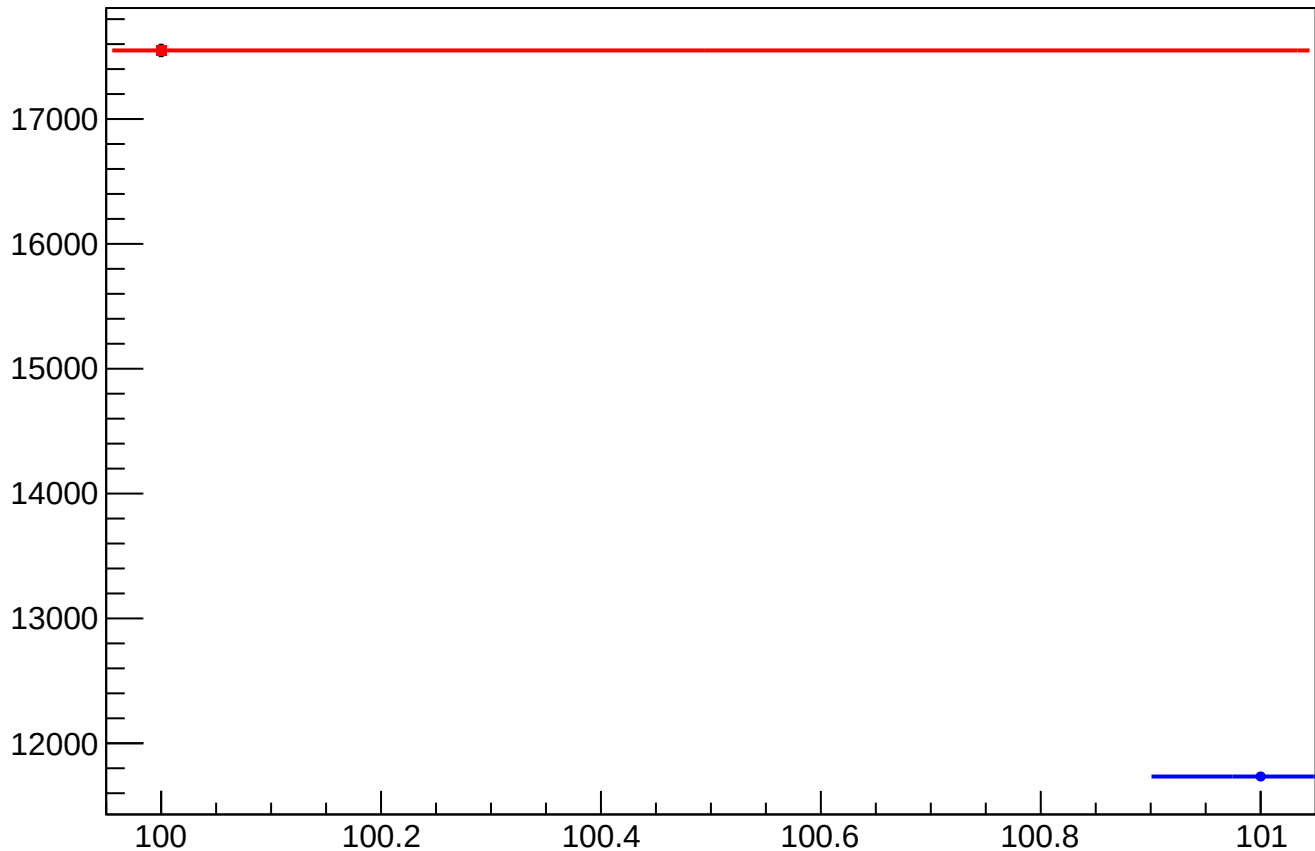
Right: 20.427+/-14.142  $\chi^2$ /NDF: 5.8/1

In: 28.022+/-14.487  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 20.427+/-14.142  $\chi^2$ /NDF: 5.8/1

# diff\_bpm16X\_rms vs Slug, Sign Corrected



Right In: 11733.788+/-10.244  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17549.390+/-46.103  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

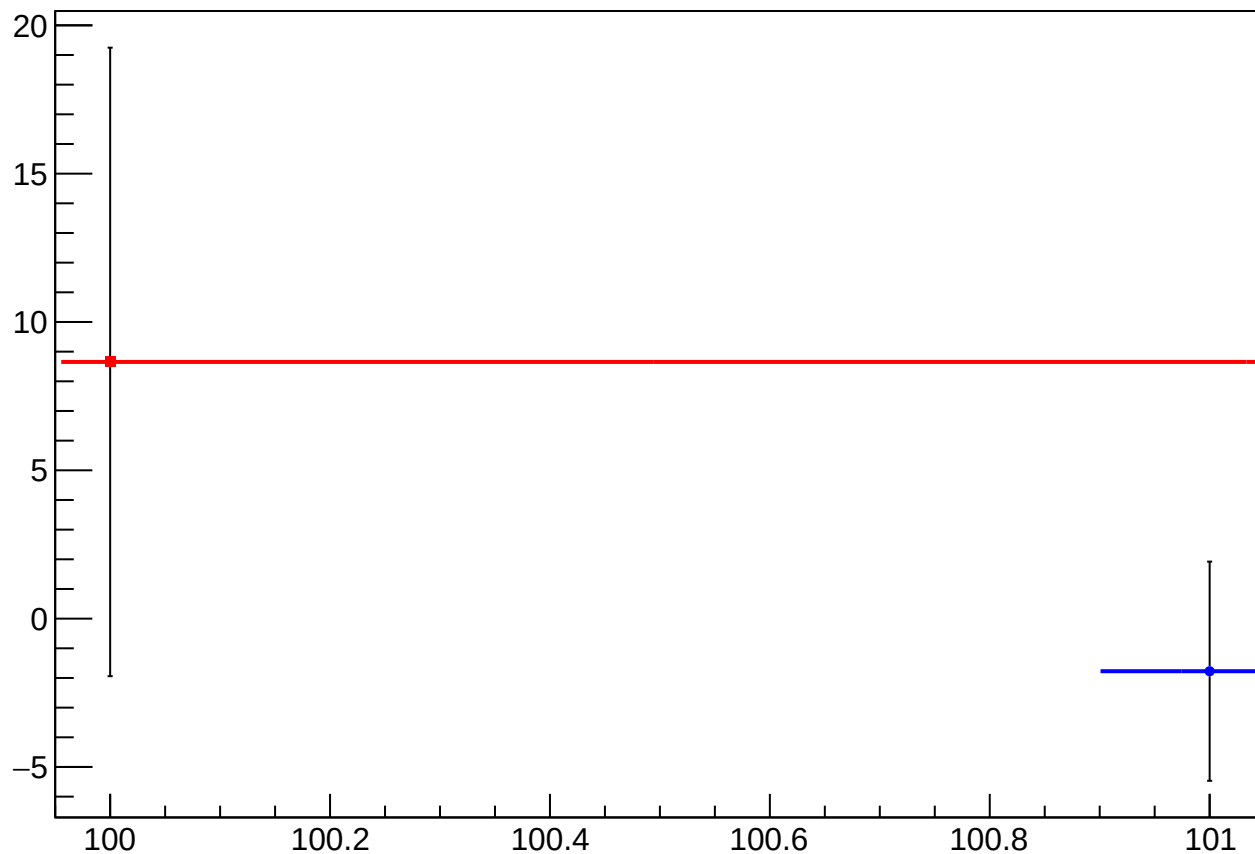
Right: 12007.396+/-10.000  $\chi^2/\text{NDF}$ : 15163.6/1

In: 11733.788+/-10.244  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12007.396+/-10.000  $\chi^2/\text{NDF}$ : 15163.6/1

# diff\_bpm16Y\_mean vs Slug, Sign Corrected



Right In: -1.772+/-3.694  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.653+/-10.593  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

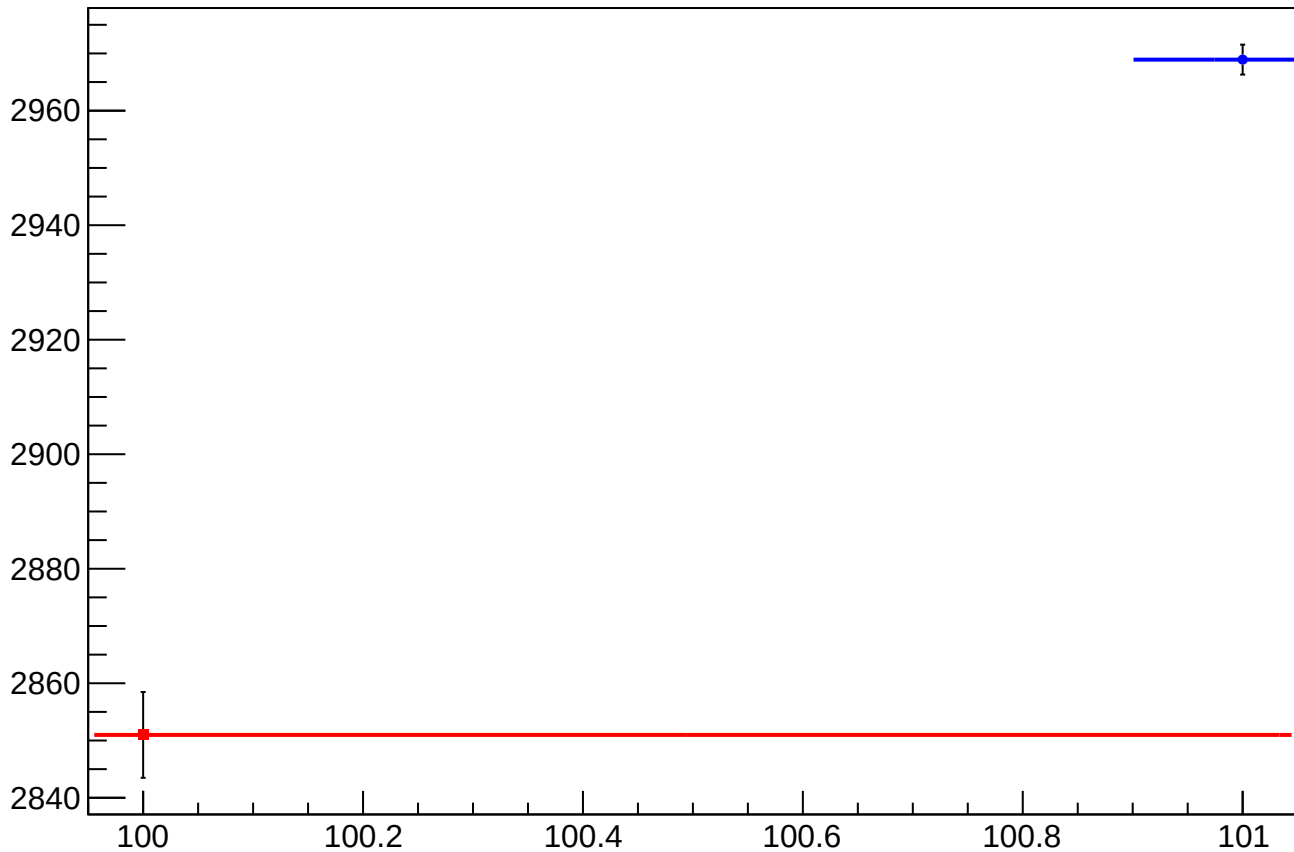
Right: -0.642+/-3.488  $\chi^2/\text{NDF}$ : 0.9/1

In: -1.772+/-3.694  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.642+/-3.488  $\chi^2/\text{NDF}$ : 0.9/1

# diff\_bpm16Y\_rms vs Slug, Sign Corrected



Right In: 2968.918 $\pm$ 2.612  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2850.979 $\pm$ 7.491  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2956.132 $\pm$ 2.466  $\chi^2$ /NDF: 221.0/1

In: 2968.918 $\pm$ 2.612  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2956.132 $\pm$ 2.466  $\chi^2$ /NDF: 221.0/1

# diff\_bpm1p02bX\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p02bX\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_bpm1p02bY\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p02bY\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

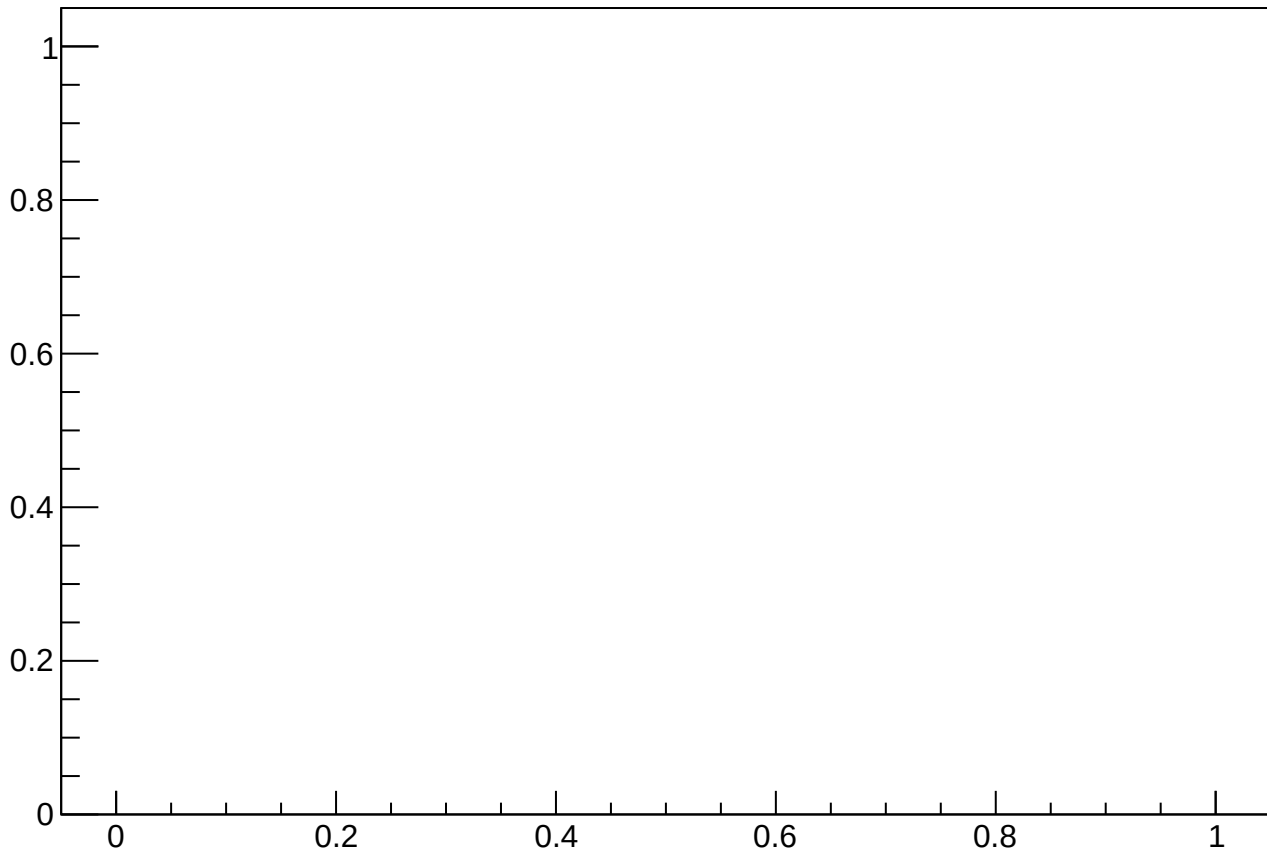
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p03aX\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p03aX\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p03aY\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_bpm1p03aY\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

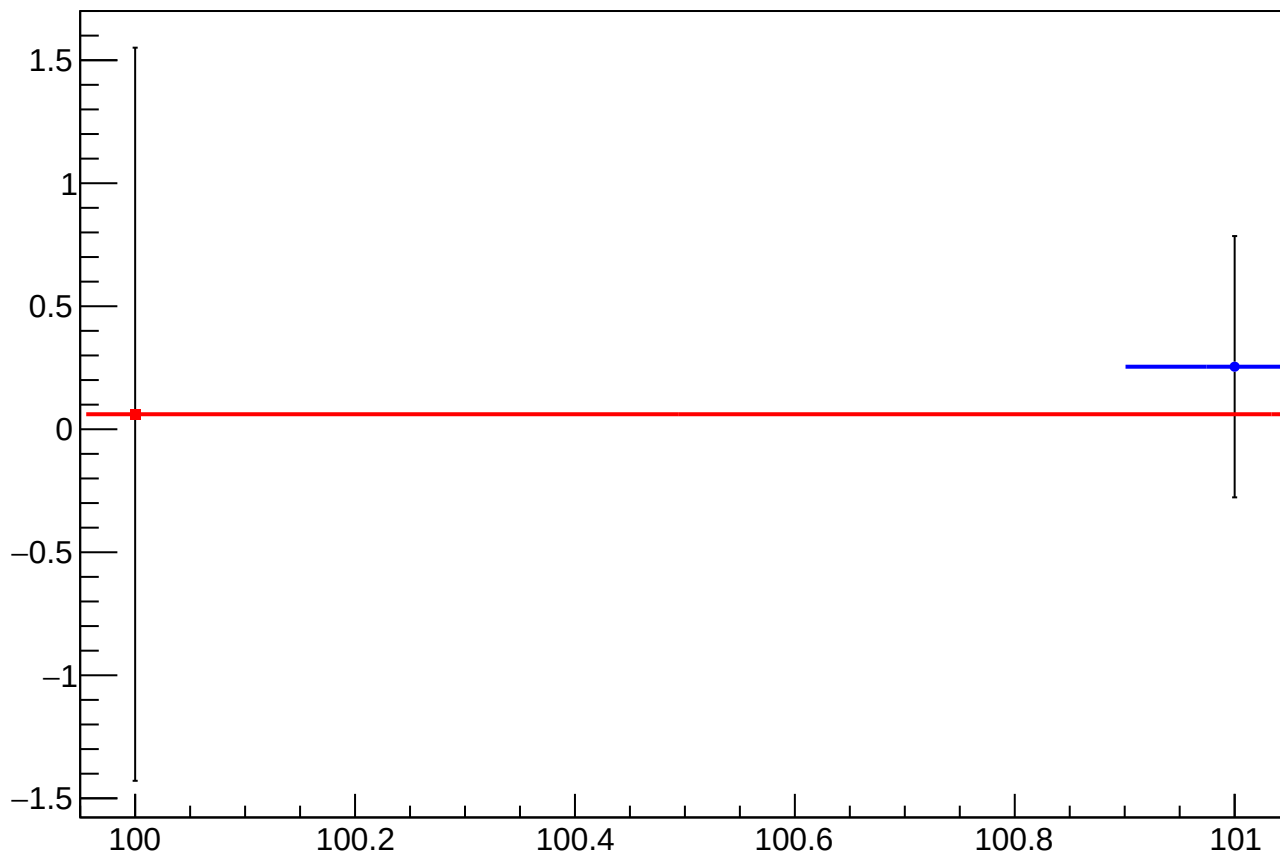
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# diff\_cav4bX\_mean vs Slug, Sign Corrected



Right In: 0.254+/-0.531  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.061+/-1.490  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

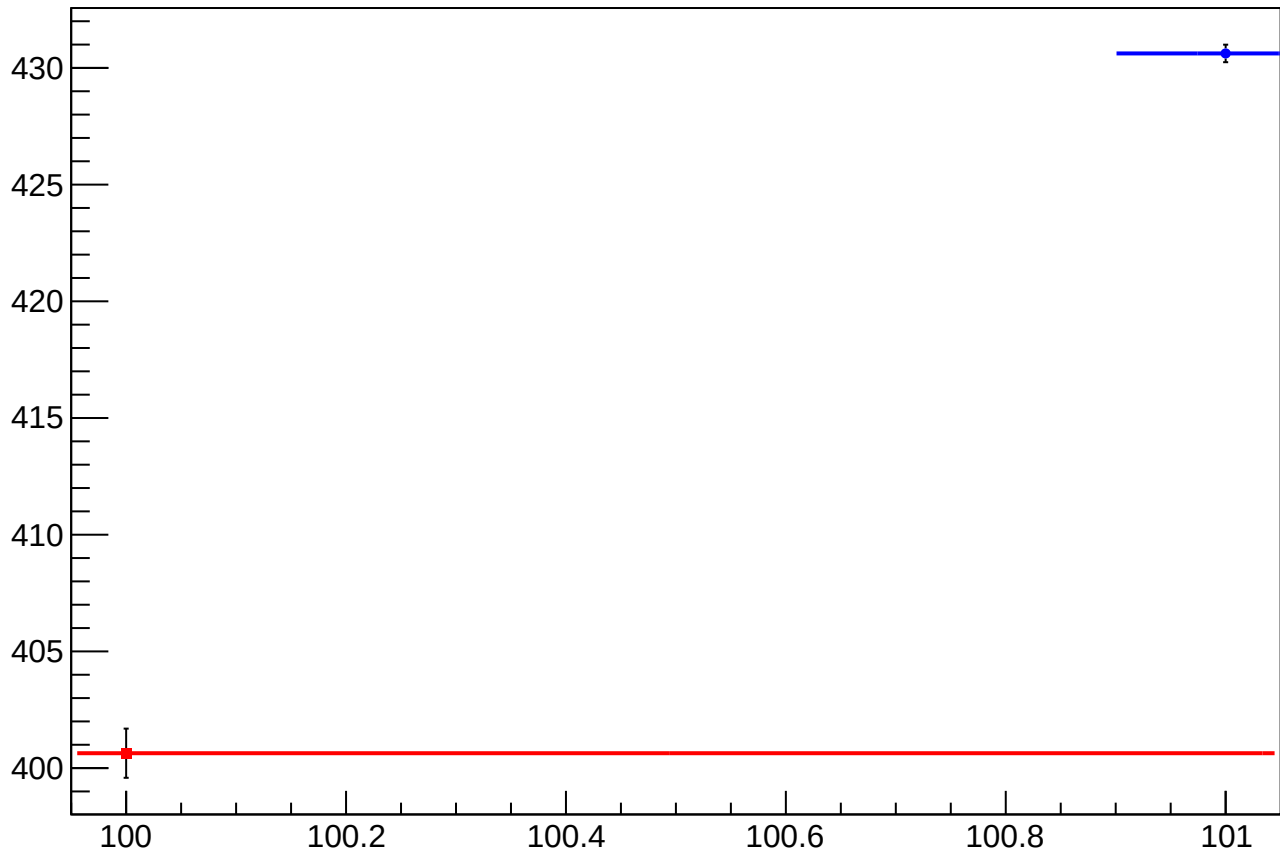
Right: 0.232+/-0.500  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.254+/-0.531  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.232+/-0.500  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_cav4bX\_rms vs Slug, Sign Corrected



Right In: 430.621+/-0.376  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 400.638+/-1.054  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 427.241+/-0.354  $\chi^2/\text{NDF}$ : 718.6/1

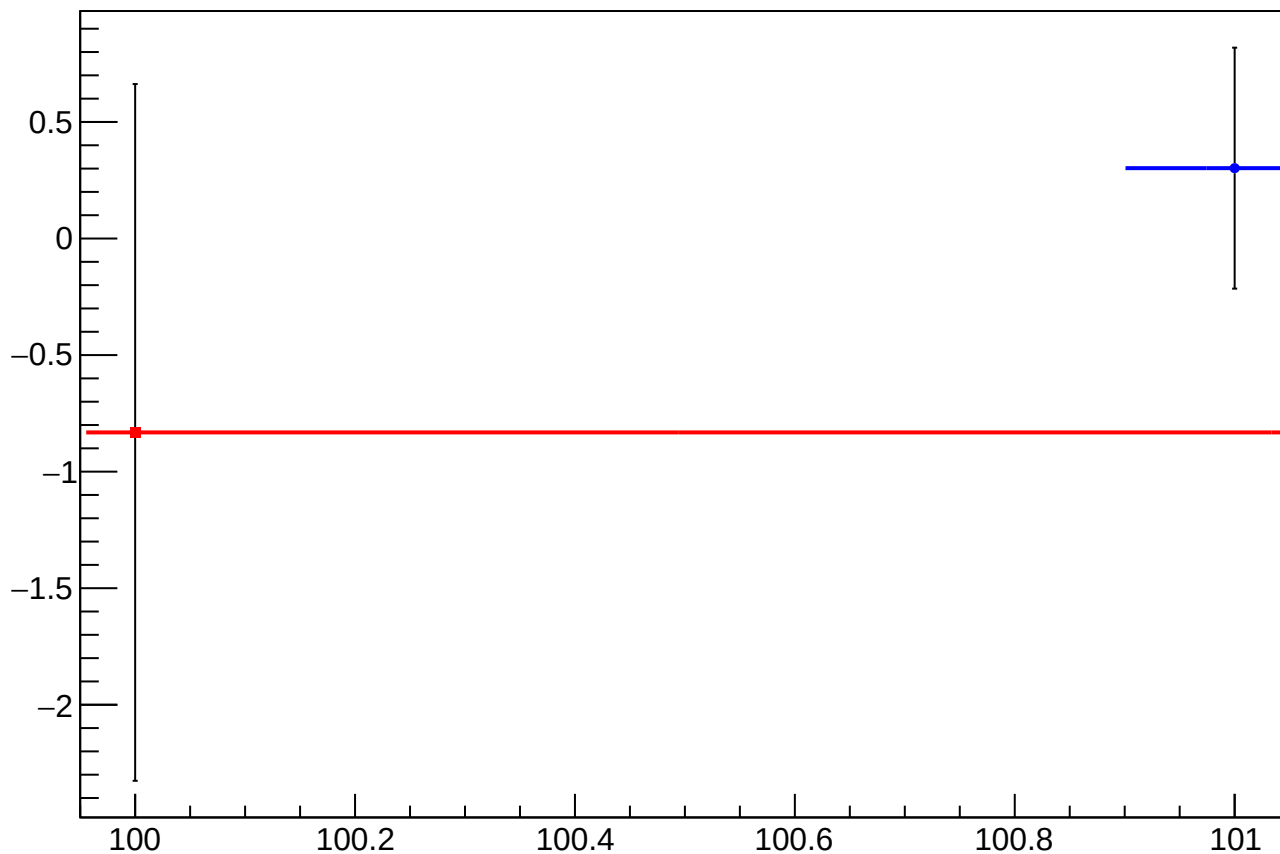
In: 430.621+/-0.376  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 427.241+/-0.354  $\chi^2/\text{NDF}$ : 718.6/1



# diff\_cav4bY\_mean vs Slug, Sign Corrected



Right In: 0.302 $\pm$ 0.517  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.832 $\pm$ 1.494  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

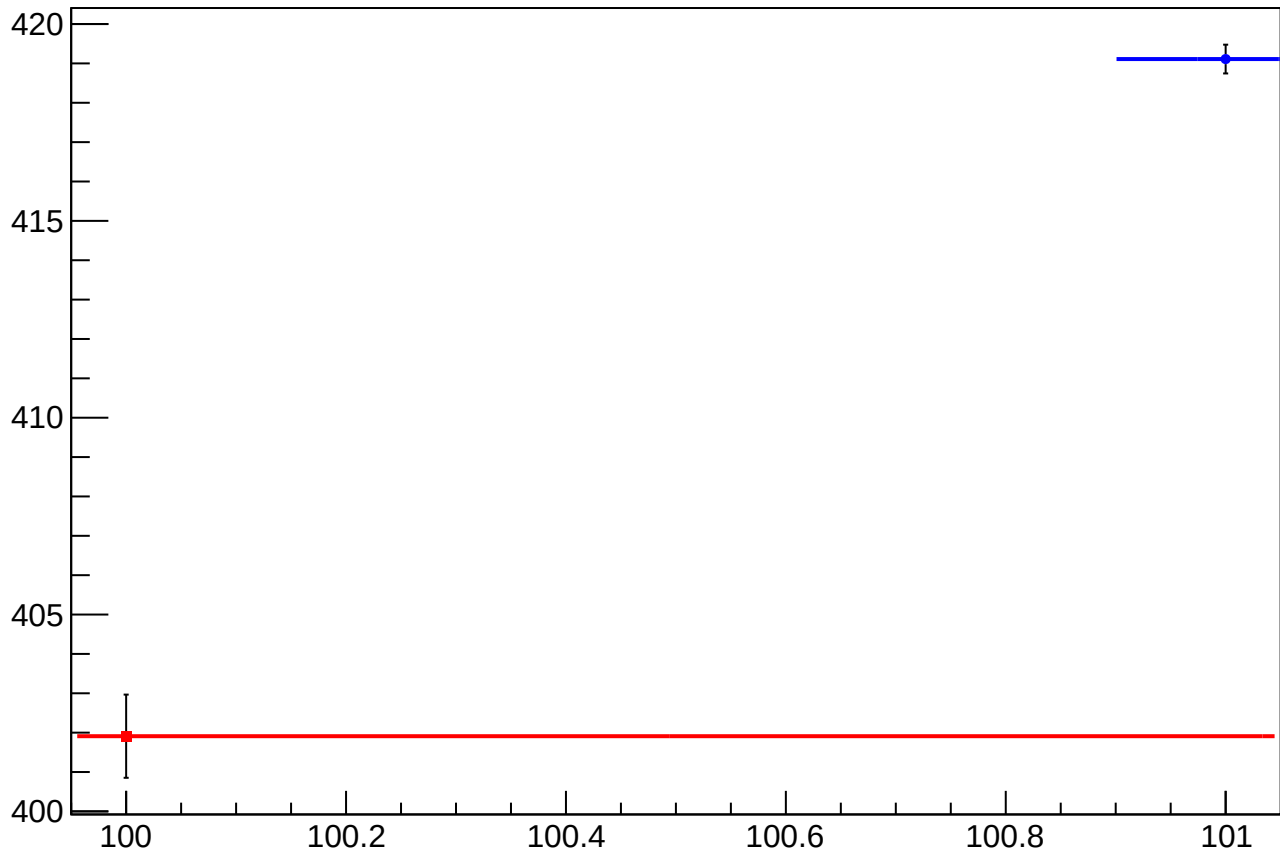
Right: 0.181 $\pm$ 0.488  $\chi^2/\text{NDF}$ : 0.5/1

In: 0.302 $\pm$ 0.517  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.181 $\pm$ 0.488  $\chi^2/\text{NDF}$ : 0.5/1

# diff\_cav4bY\_rms vs Slug, Sign Corrected



Right In: 419.110 $\pm$ 0.365  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 401.910 $\pm$ 1.057  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

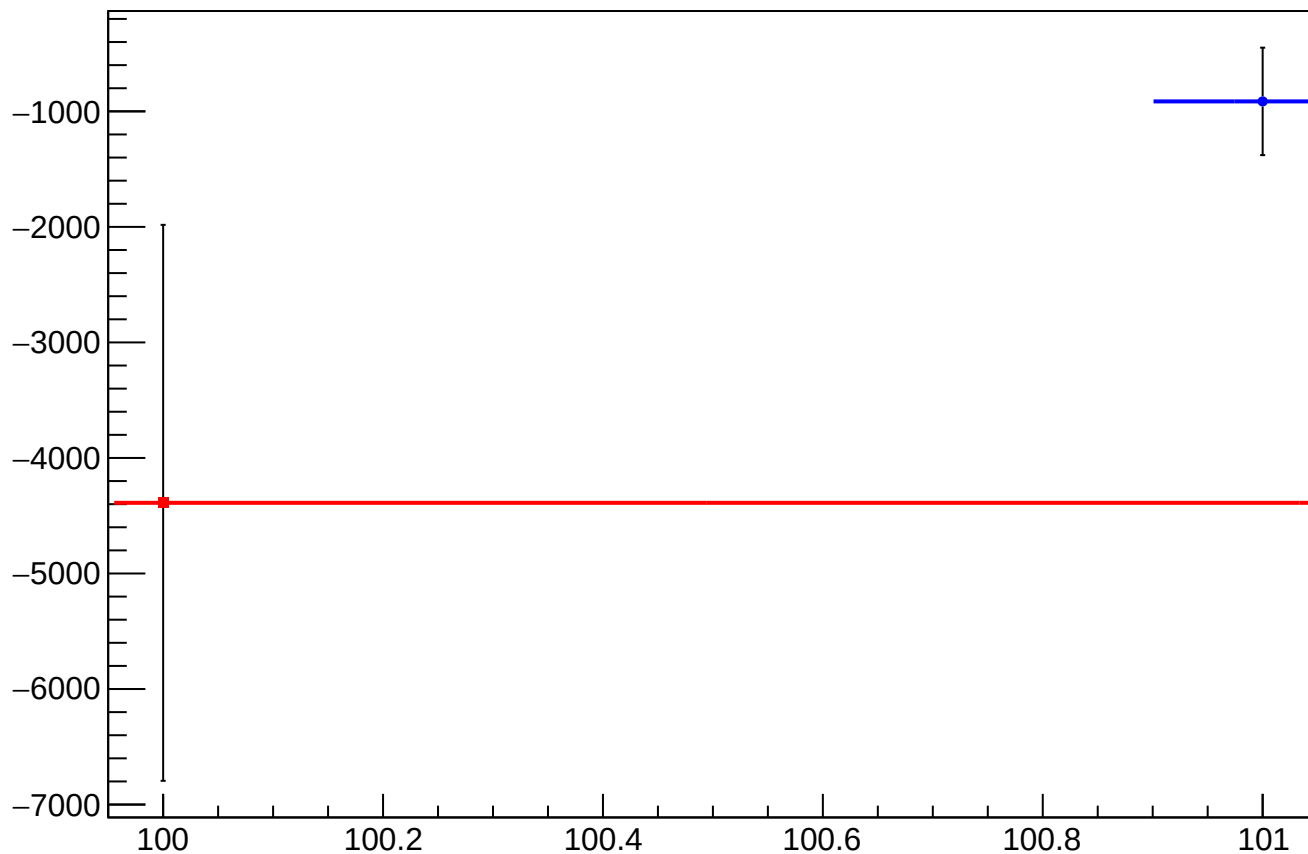
Right: 417.273 $\pm$ 0.345  $\chi^2/\text{NDF}$ : 236.6/1

In: 419.110 $\pm$ 0.365  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 417.273 $\pm$ 0.345  $\chi^2/\text{NDF}$ : 236.6/1

# diff\_cav4cX\_mean vs Slug, Sign Corrected



Right In: -913.942+/-465.114  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4388.370+/-2406.012  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

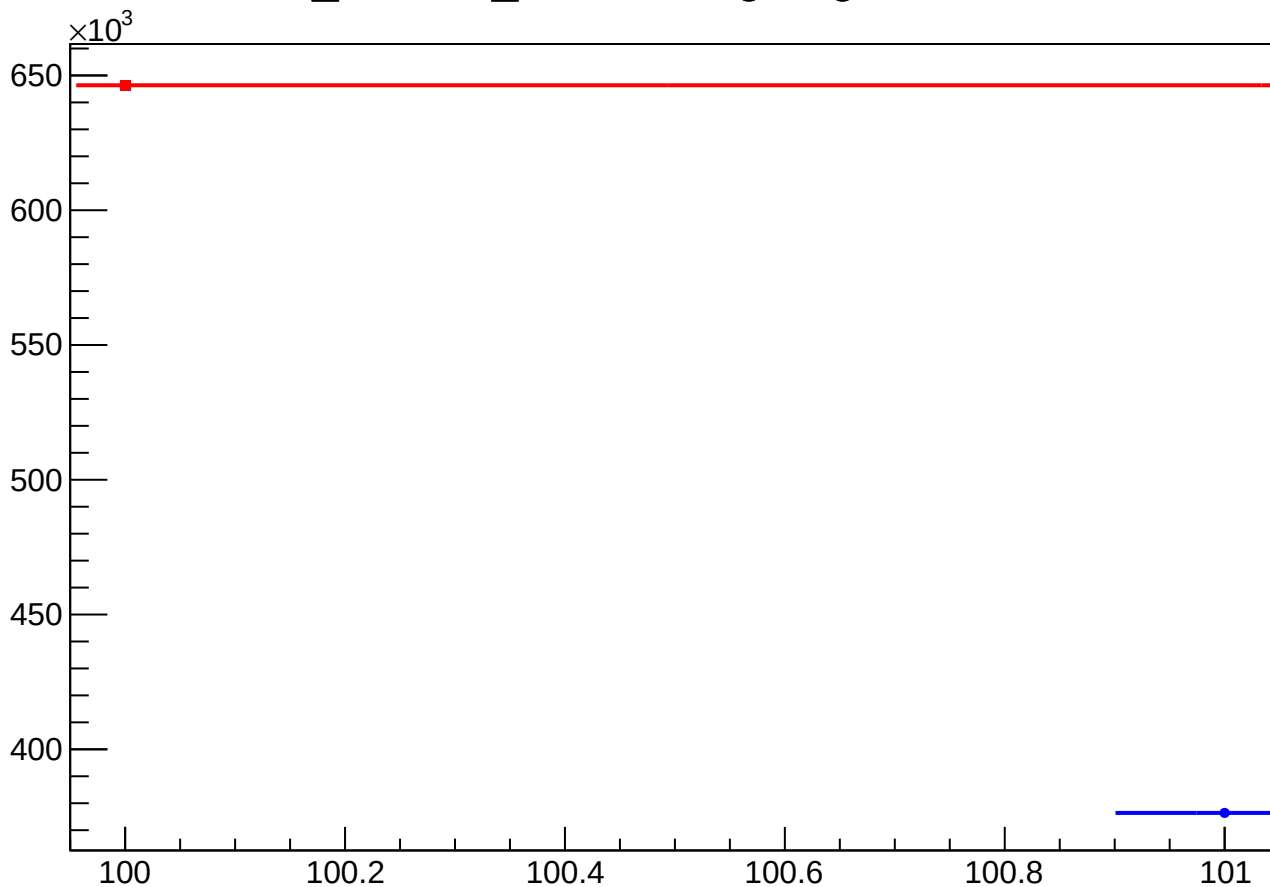
Right: -1039.104+/-456.659  $\chi^2/\text{NDF}$ : 2.0/1

In: -913.942+/-465.114  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1039.104+/-456.659  $\chi^2/\text{NDF}$ : 2.0/1

# diff\_cav4cX\_rms vs Slug, Sign Corrected



Right In: 376403.665 $\pm$ 328.885  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 646364.804 $\pm$ 1701.308  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

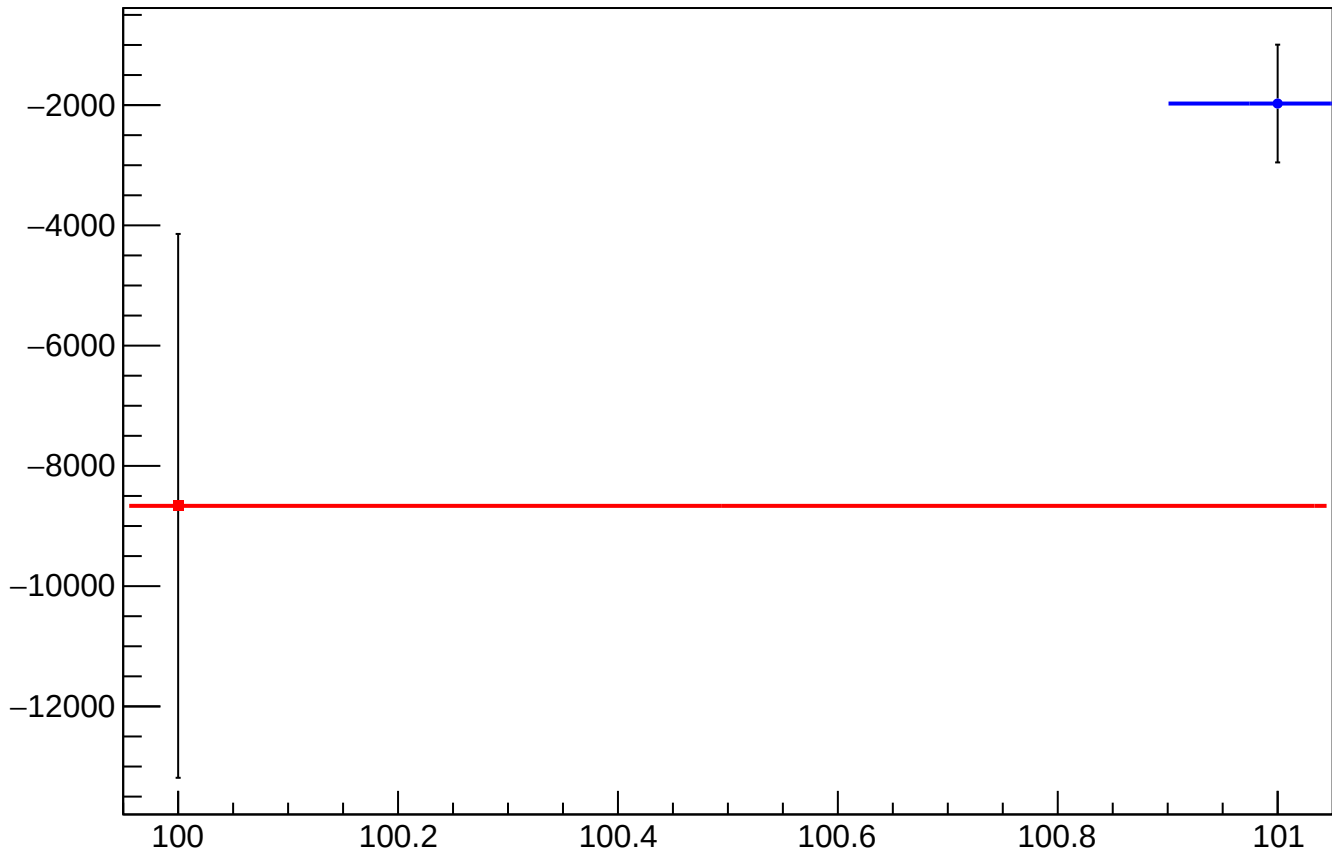
Right: 386128.680 $\pm$ 322.907  $\chi^2$ /NDF: 24271.9/1

In: 376403.665 $\pm$ 328.885  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 386128.680 $\pm$ 322.907  $\chi^2$ /NDF: 24271.9

# diff\_cav4cY\_mean vs Slug, Sign Corrected



Right In: -1974.057+/-979.110  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -8664.817+/-4522.417  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

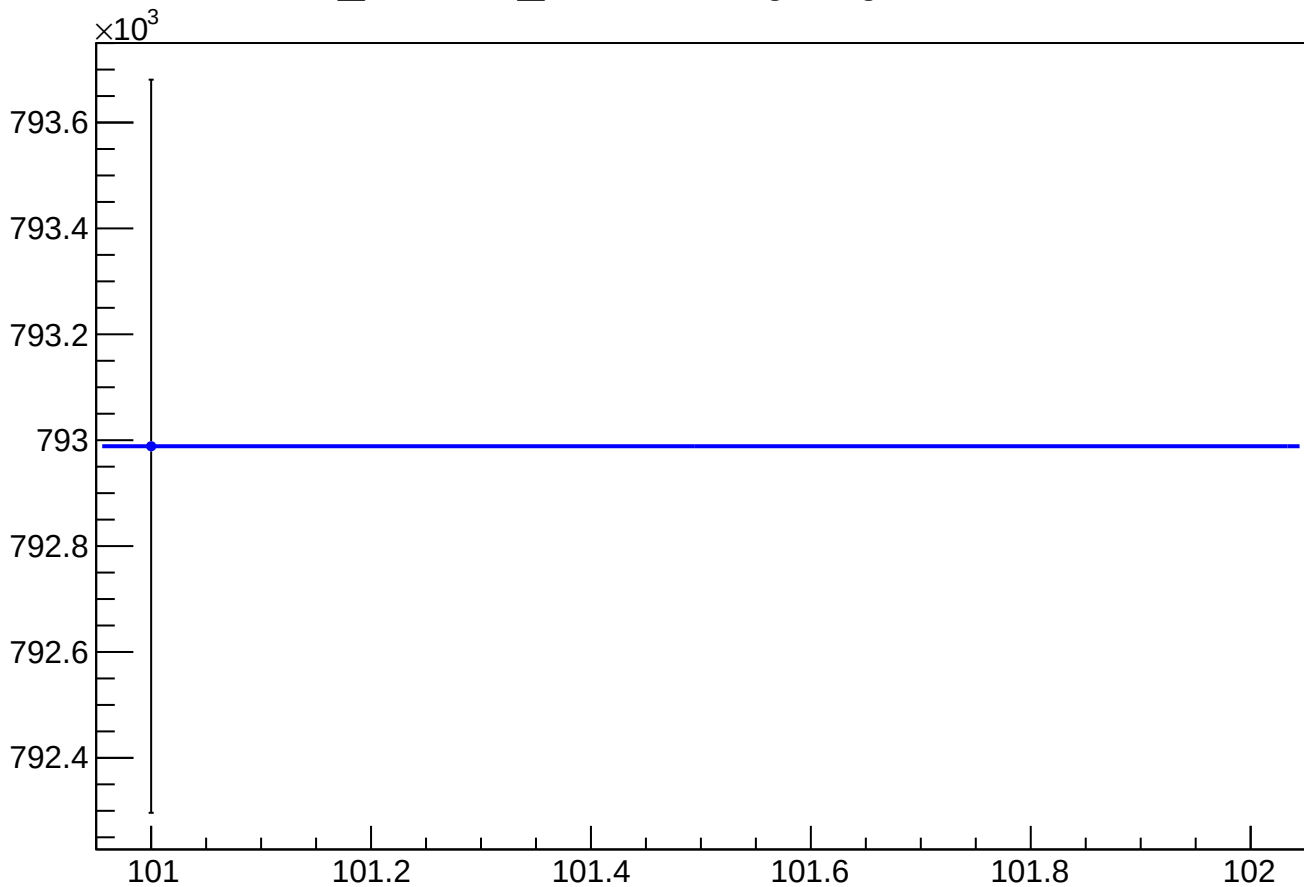
Right: -2273.631+/-956.940  $\chi^2/\text{NDF}$ : 2.1/1

In: -1974.057+/-979.110  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: -2273.631+/-956.940  $\chi^2/\text{NDF}$ : 2.1/1

# diff\_cav4cY\_rms vs Slug, Sign Corrected



Right In: 792988.596 $\pm$ 692.336  $\chi^2$ /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

Left: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

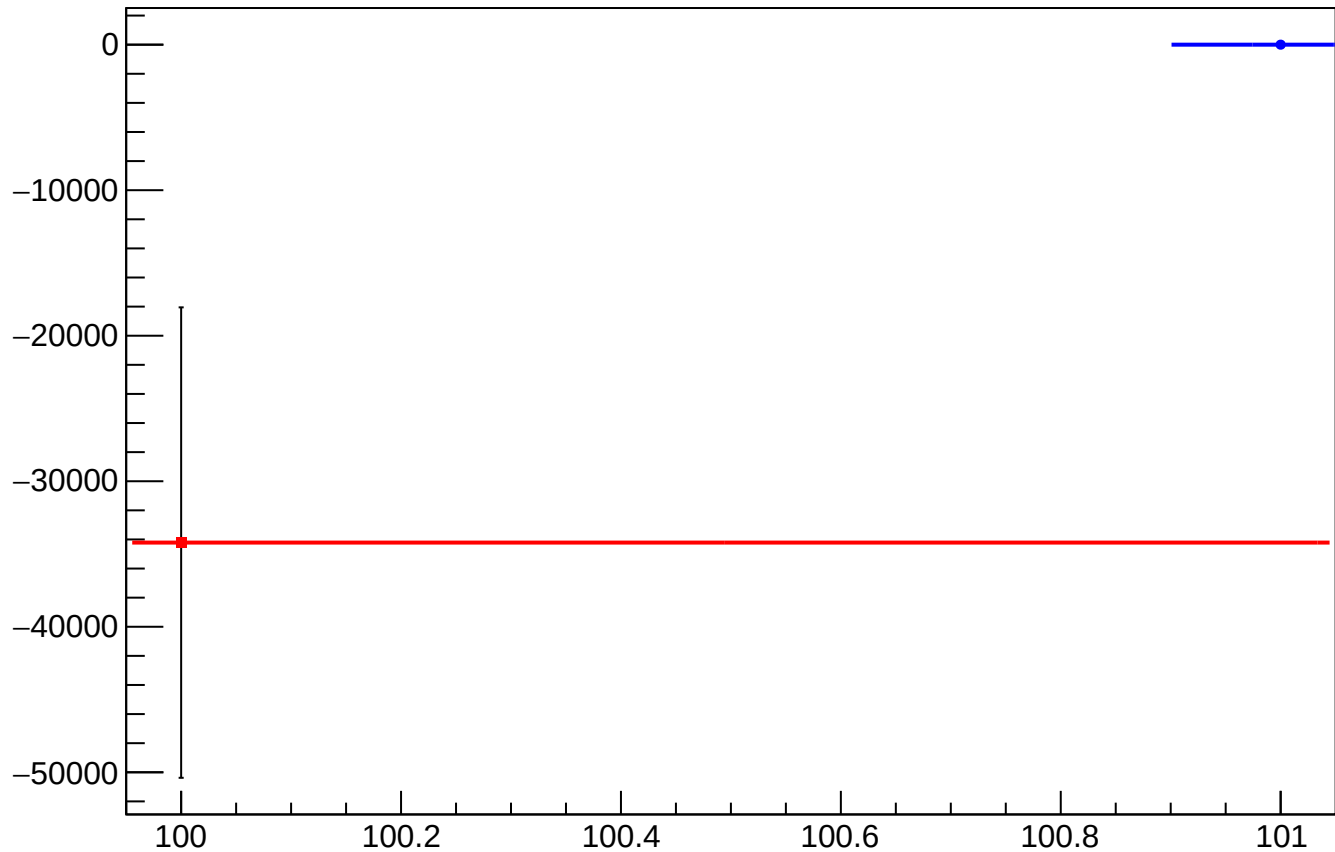
Right: 792988.596 $\pm$ 692.336  $\chi^2$ /NDF: 0.0/0

In: 792988.596 $\pm$ 692.336  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

All: 792988.596 $\pm$ 692.336  $\chi^2$ /NDF: 0.0/0

# diff\_cav4dX\_mean vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.184  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -34215.021 $\pm$ 16163.958  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

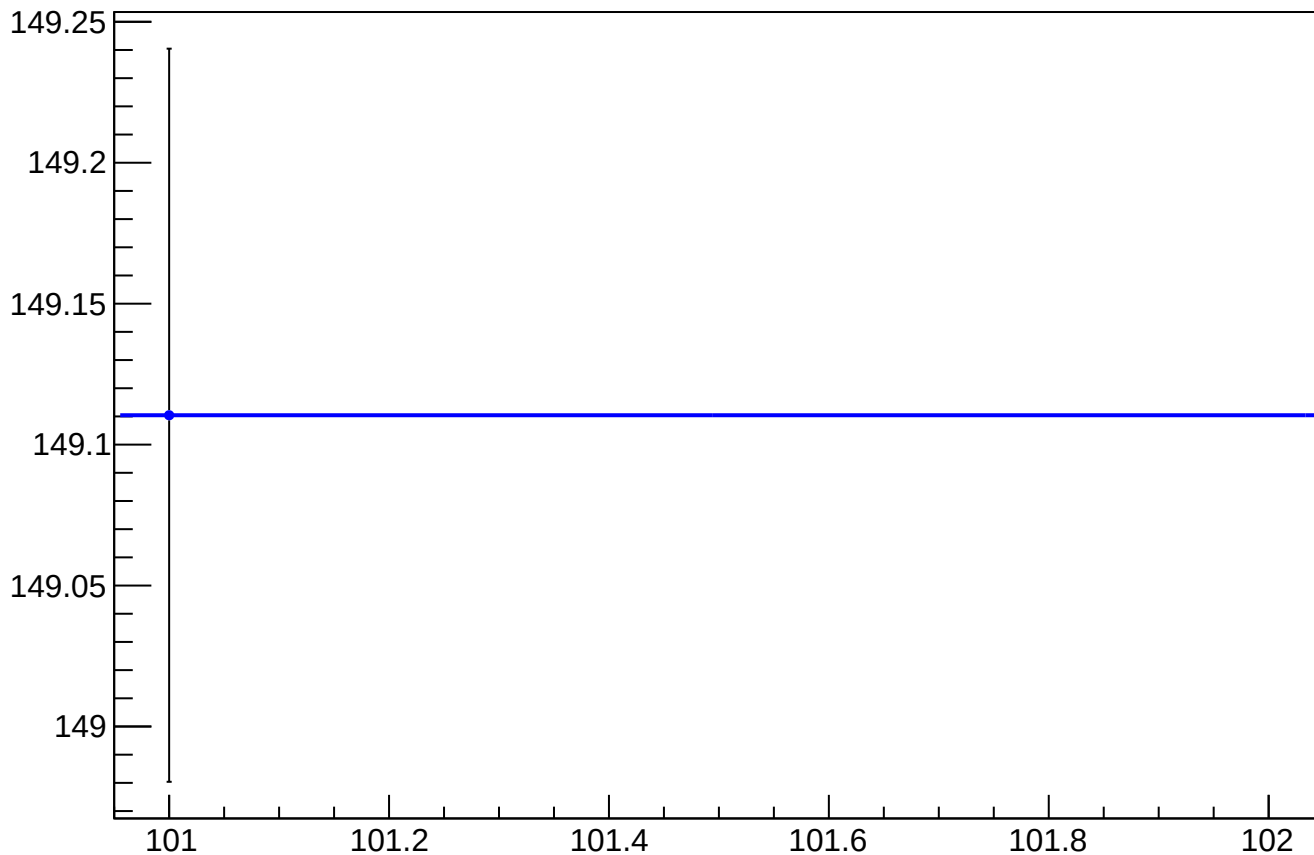
Right: 0.017 $\pm$ 0.184  $\chi^2/\text{NDF}$ : 4.5/1

In: 0.017 $\pm$ 0.184  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017 $\pm$ 0.184  $\chi^2/\text{NDF}$ : 4.5/1

# diff\_cav4dX\_rms vs Slug, Sign Corrected



Right In: 149.110 $\pm$ 0.130  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 149.110 $\pm$ 0.130  $\chi^2/\text{NDF}$ : 0.0/0

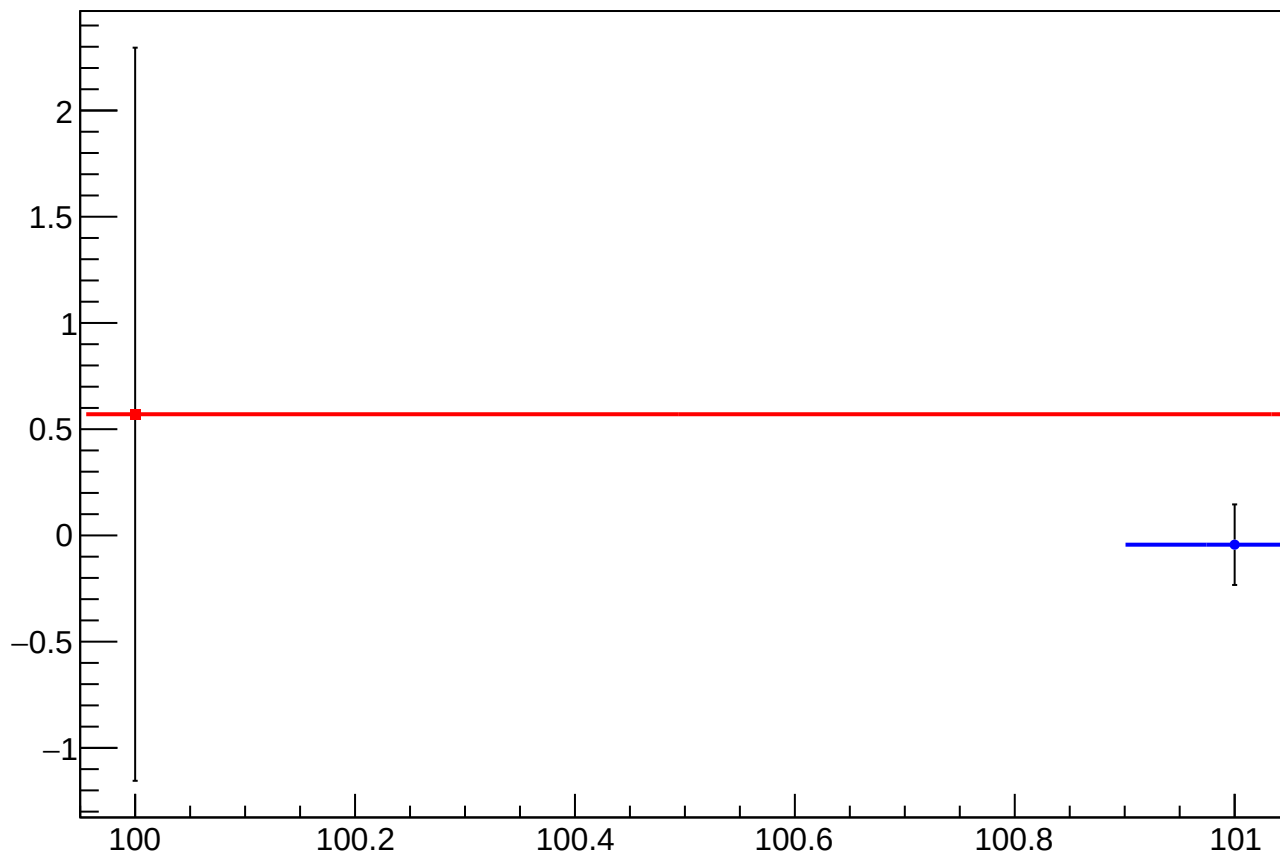
In: 149.110 $\pm$ 0.130  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 149.110 $\pm$ 0.130  $\chi^2/\text{NDF}$ : 0.0/0



# diff\_cav4dY\_mean vs Slug, Sign Corrected



Right In: -0.044 $\pm$ 0.190  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.570 $\pm$ 1.725  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

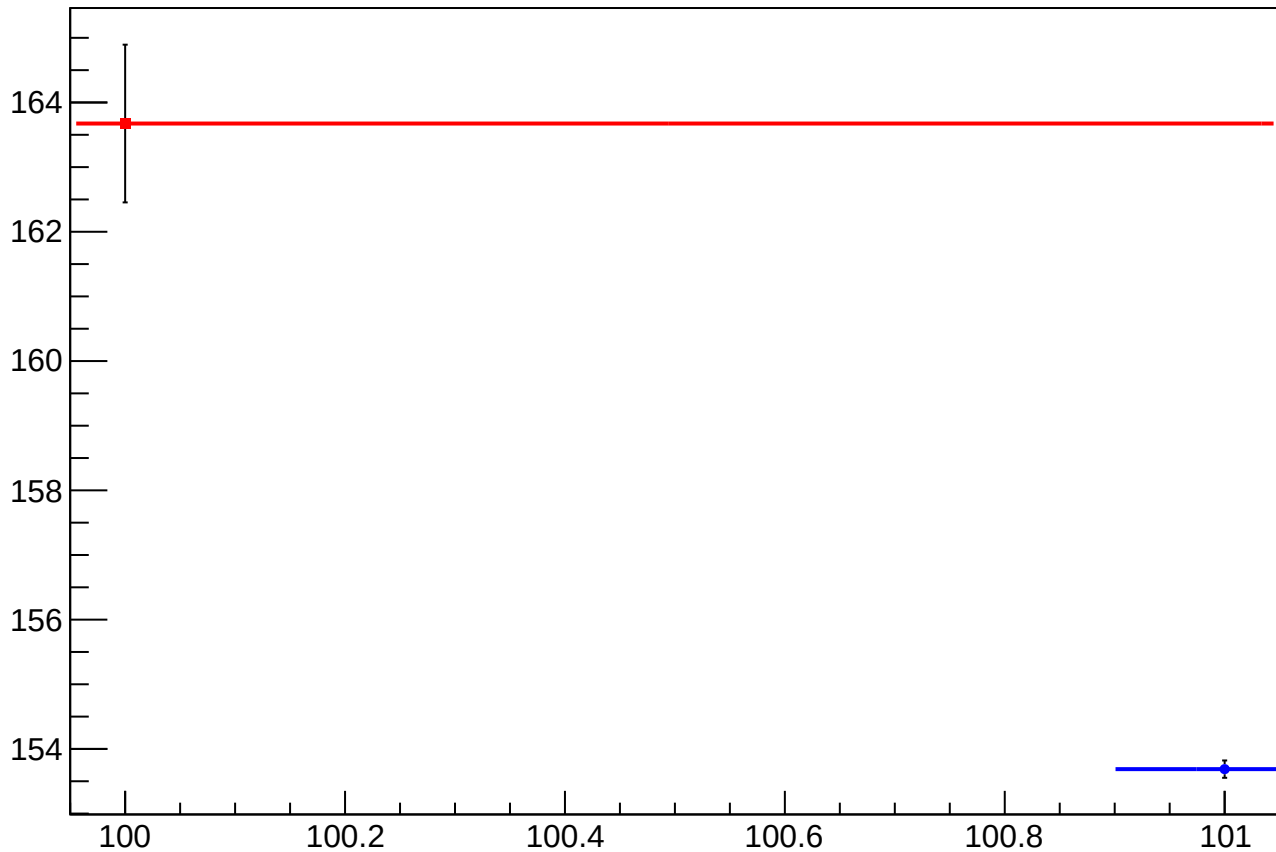
Right: -0.036 $\pm$ 0.188  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.044 $\pm$ 0.190  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.036 $\pm$ 0.188  $\chi^2/\text{NDF}$ : 0.1/1

# diff\_cav4dY\_rms vs Slug, Sign Corrected



Right In: 153.687 $\pm$ 0.134  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 163.674 $\pm$ 1.220  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

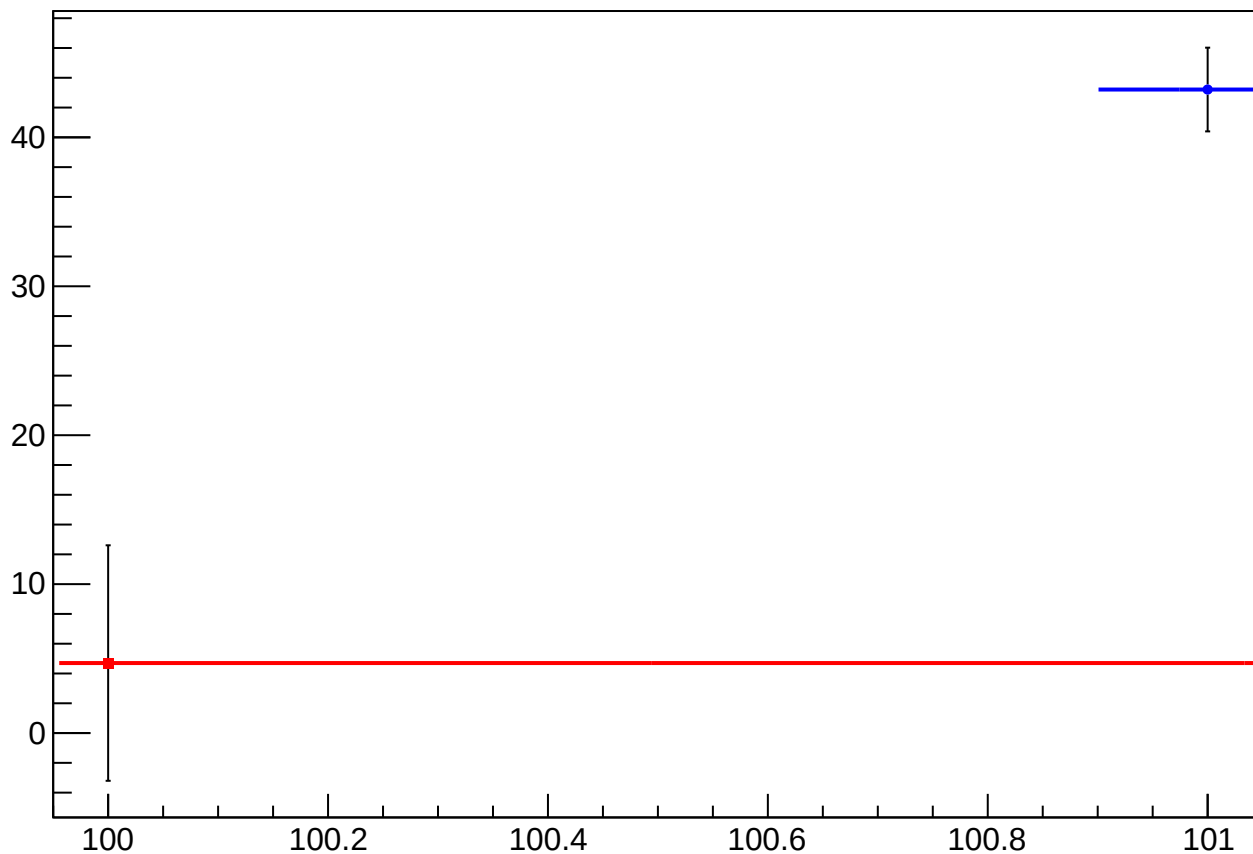
Right: 153.807 $\pm$ 0.133  $\chi^2$ /NDF: 66.2/1

In: 153.687 $\pm$ 0.134  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.807 $\pm$ 0.133  $\chi^2$ /NDF: 66.2/1

# diff\_bpm0i01X\_mean vs Slug, Sign Corrected



Right In: 43.211+/-2.811  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4.701+/-7.907  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

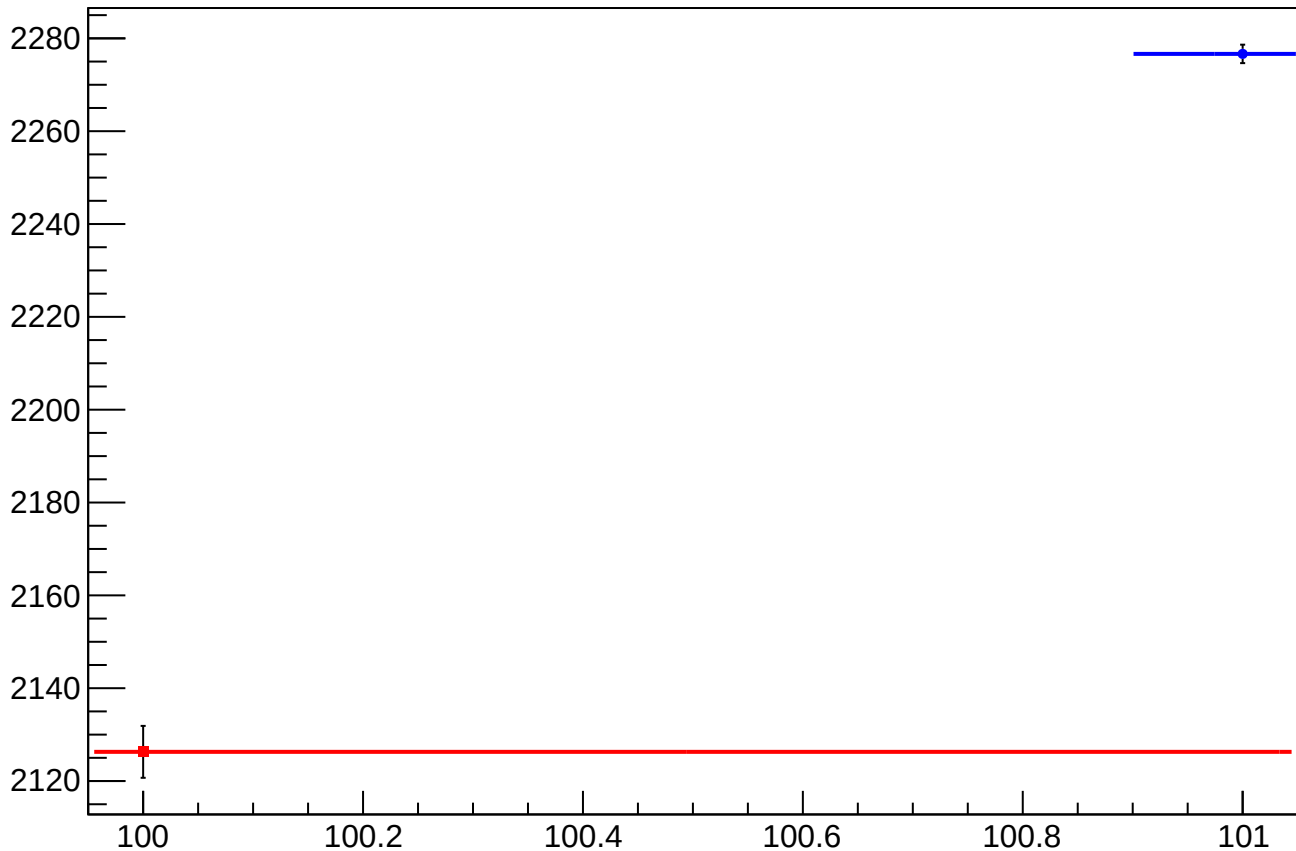
Right: 38.890+/-2.648  $\chi^2$ /NDF: 21.1/1

In: 43.211+/-2.811  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 38.890+/-2.648  $\chi^2$ /NDF: 21.1/1

# diff\_bpm0i01X\_rms vs Slug, Sign Corrected



Right In: 2276.651+/-1.988  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2126.289+/-5.591  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

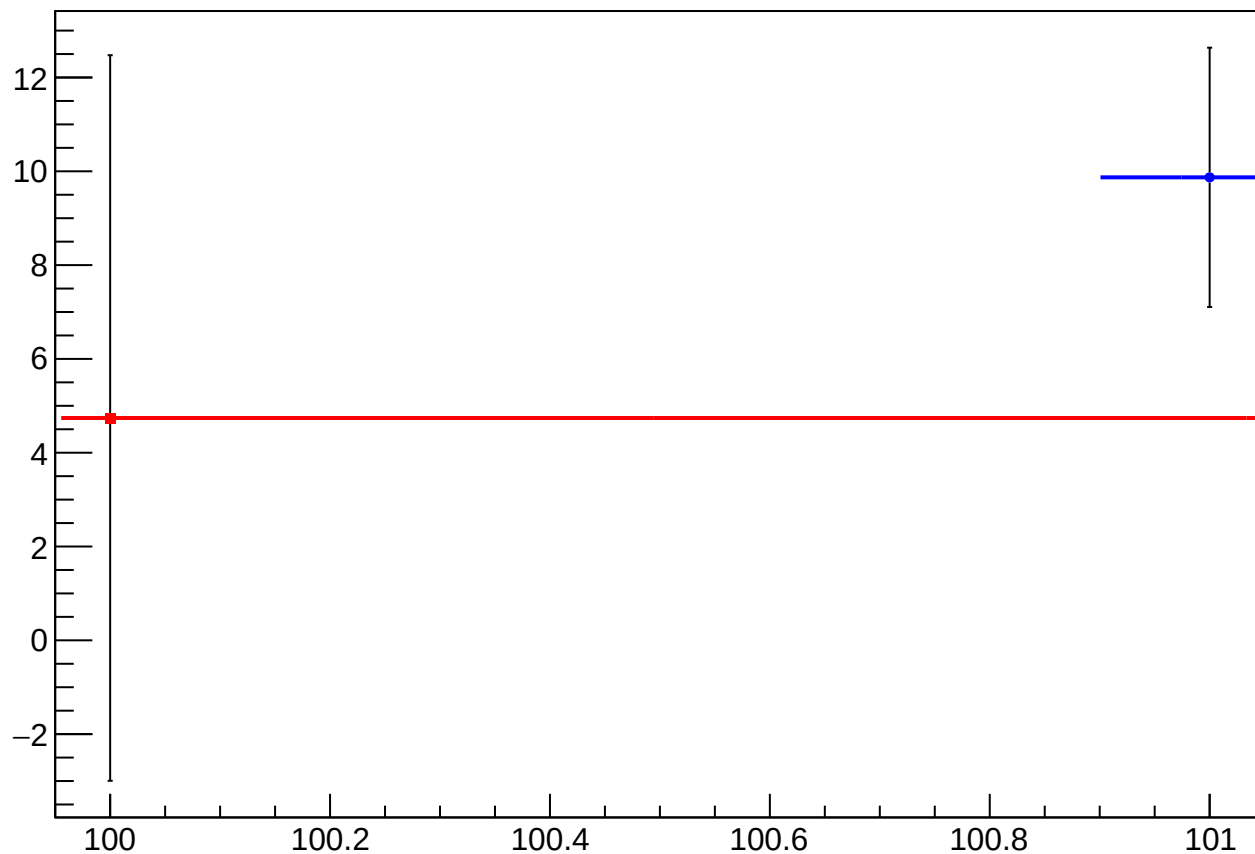
Right: 2259.780+/-1.873  $\chi^2/\text{NDF}$ : 642.2/1

In: 2276.651+/-1.988  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2259.780+/-1.873  $\chi^2/\text{NDF}$ : 642.2/1

# diff\_bpm0i01Y\_mean vs Slug, Sign Corrected



Right In: 9.871+/-2.765  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.740+/-7.735  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

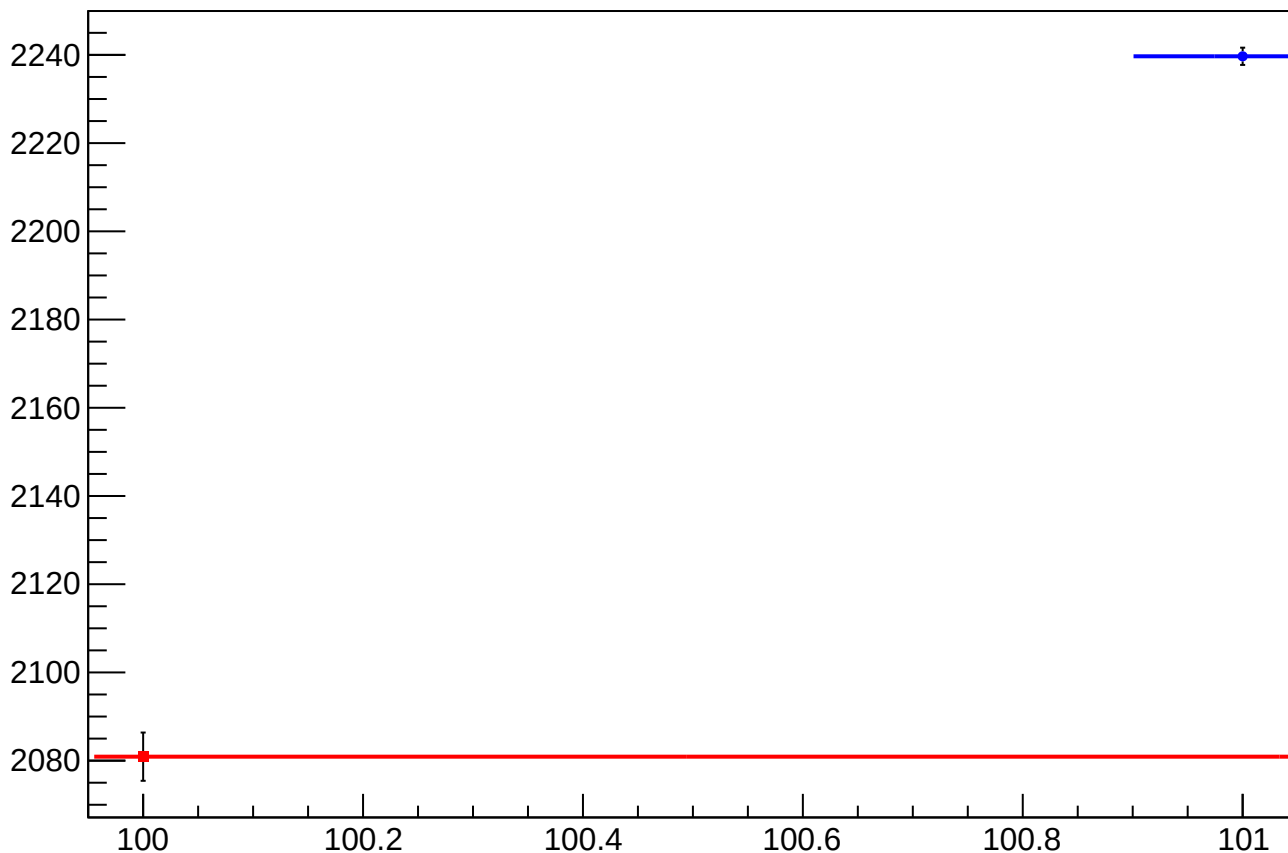
Right: 9.290+/-2.603  $\chi^2/\text{NDF}$ : 0.4/1

In: 9.871+/-2.765  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.290+/-2.603  $\chi^2/\text{NDF}$ : 0.4/1

# diff\_bpm0i01Y\_rms vs Slug, Sign Corrected



Right In: 2239.683±1.955  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2080.903±5.470  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

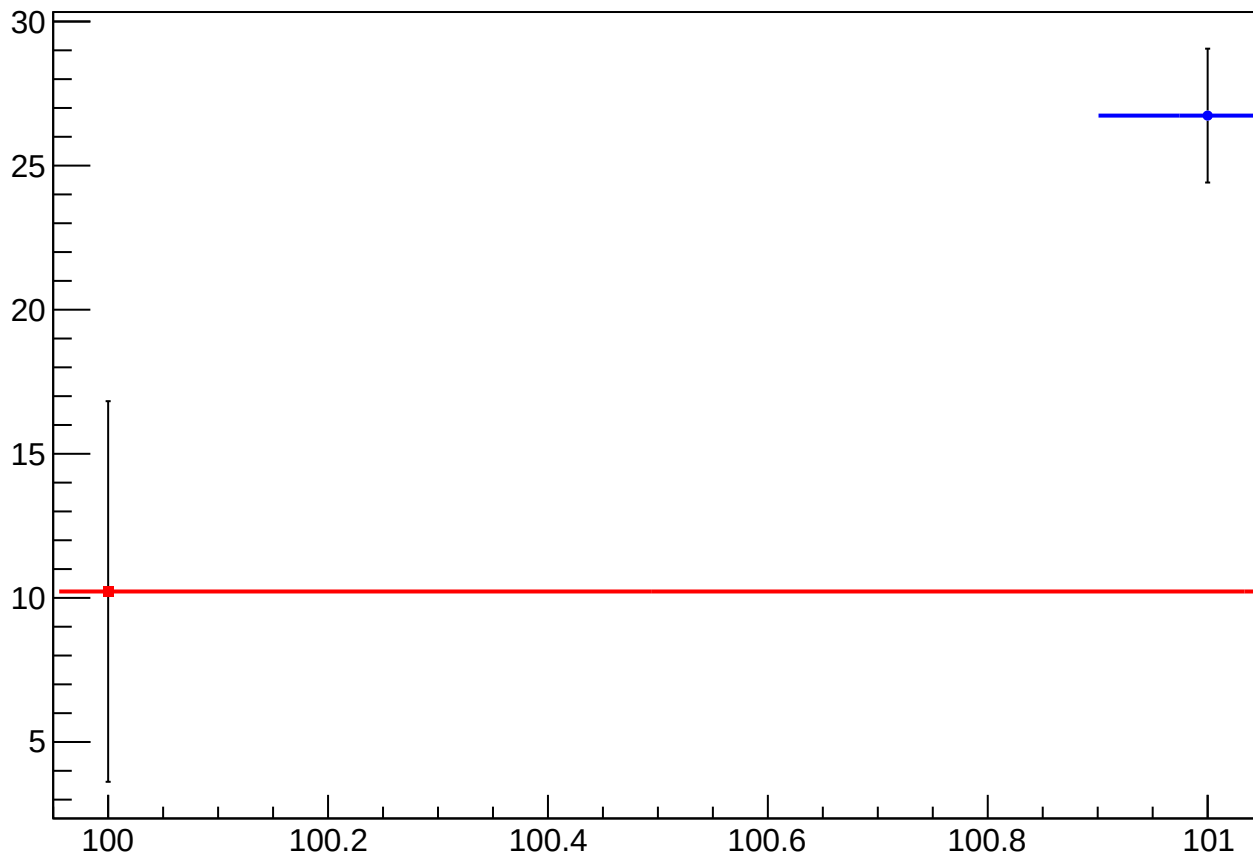
Right: 2221.696±1.841  $\chi^2/\text{NDF}$ : 747.3/1

In: 2239.683±1.955  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000±0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2221.696±1.841  $\chi^2/\text{NDF}$ : 747.3/1

# diff\_bpm0i01aX\_mean vs Slug, Sign Corrected



Right In: 26.735 $\pm$ 2.322  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.222 $\pm$ 6.604  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

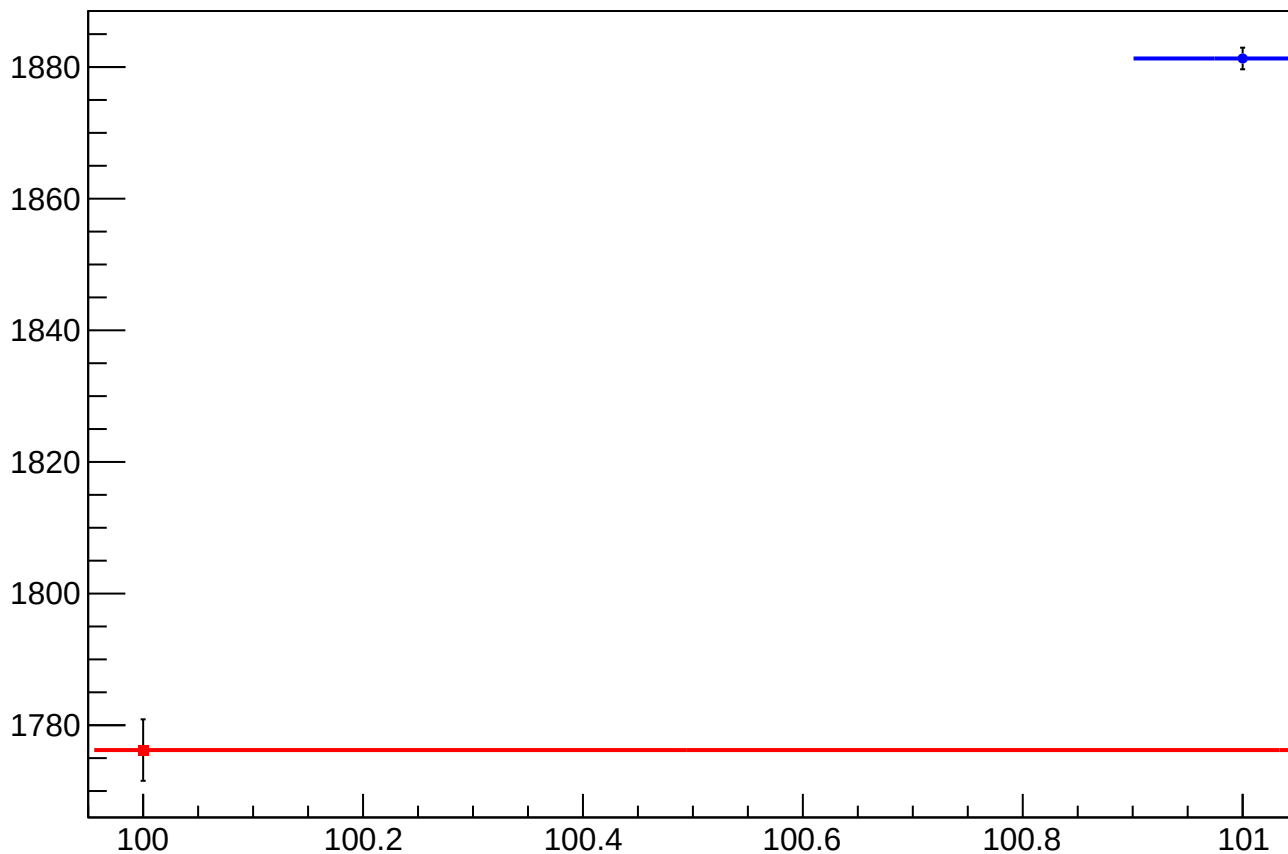
Right: 24.917 $\pm$ 2.191  $\chi^2$ /NDF: 5.6/1

In: 26.735 $\pm$ 2.322  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 24.917 $\pm$ 2.191  $\chi^2$ /NDF: 5.6/1

# diff\_bpm0i01aX\_rms vs Slug, Sign Corrected



Right In: 1881.303 $\pm$ 1.642  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1776.223 $\pm$ 4.669  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1869.736 $\pm$ 1.549  $\chi^2$ /NDF: 450.7/1

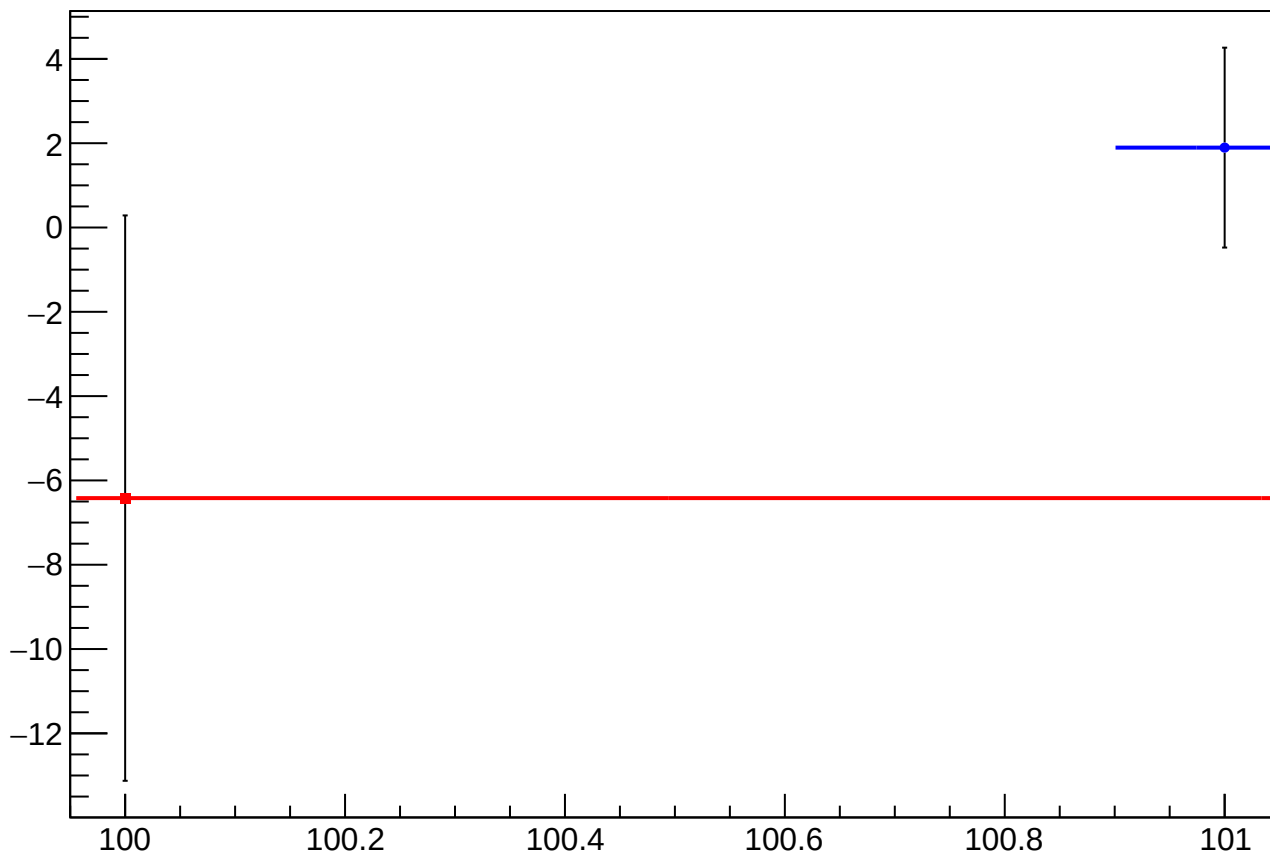
In: 1881.303 $\pm$ 1.642  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1869.736 $\pm$ 1.549  $\chi^2$ /NDF: 450.7/1



# diff\_bpm0i01aY\_mean vs Slug, Sign Corrected



Right In: 1.895+/-2.371  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.420+/-6.706  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

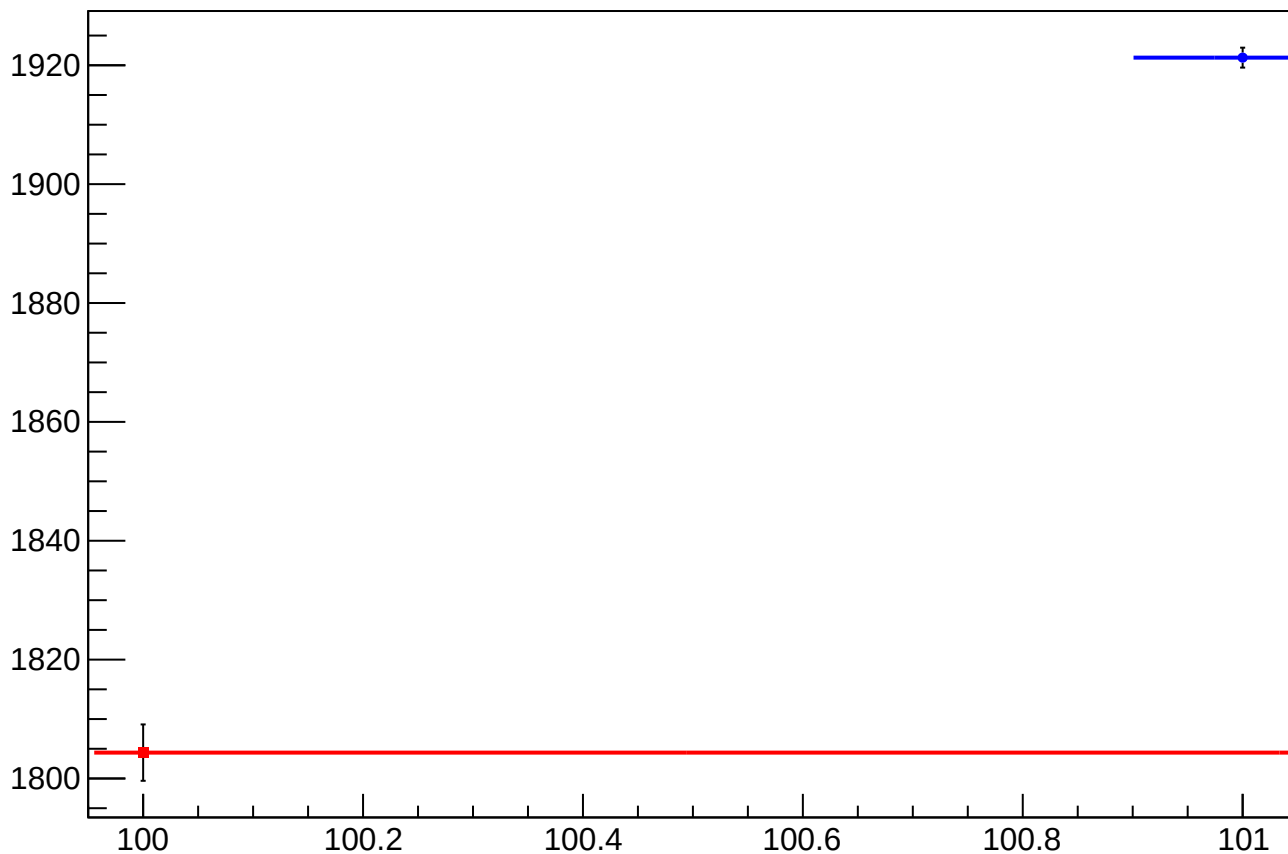
Right: 0.971+/-2.236  $\chi^2/\text{NDF}$ : 1.4/1

In: 1.895+/-2.371  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.971+/-2.236  $\chi^2/\text{NDF}$ : 1.4/1

# diff\_bpm0i01aY\_rms vs Slug, Sign Corrected



Right In: 1921.285 $\pm$ 1.677  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1804.354 $\pm$ 4.742  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

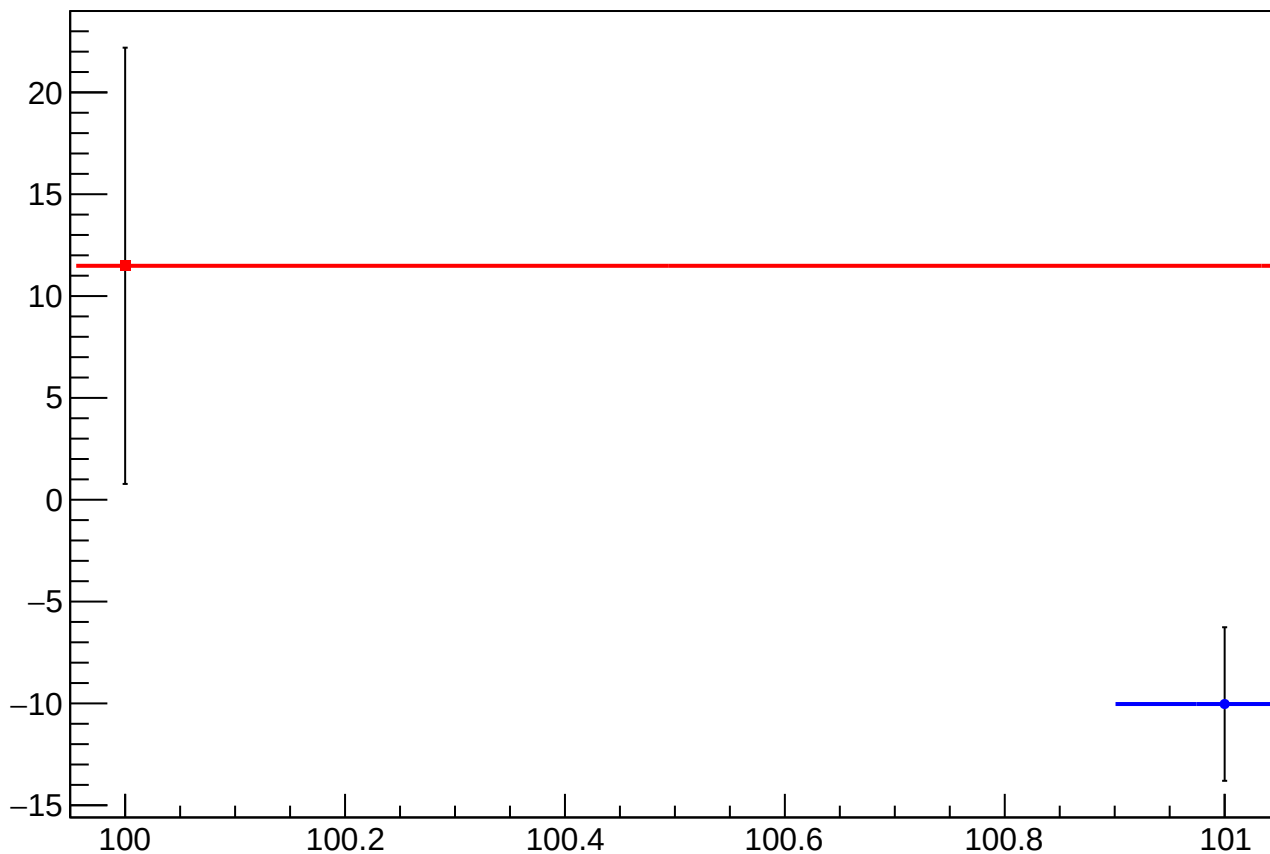
Right: 1908.292 $\pm$ 1.581  $\chi^2$ /NDF: 540.5/1

In: 1921.285 $\pm$ 1.677  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1908.292 $\pm$ 1.581  $\chi^2$ /NDF: 540.5/1

# diff\_bpm0l01X\_mean vs Slug, Sign Corrected



Right In: -10.030 $\pm$ 3.769  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.486 $\pm$ 10.710  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

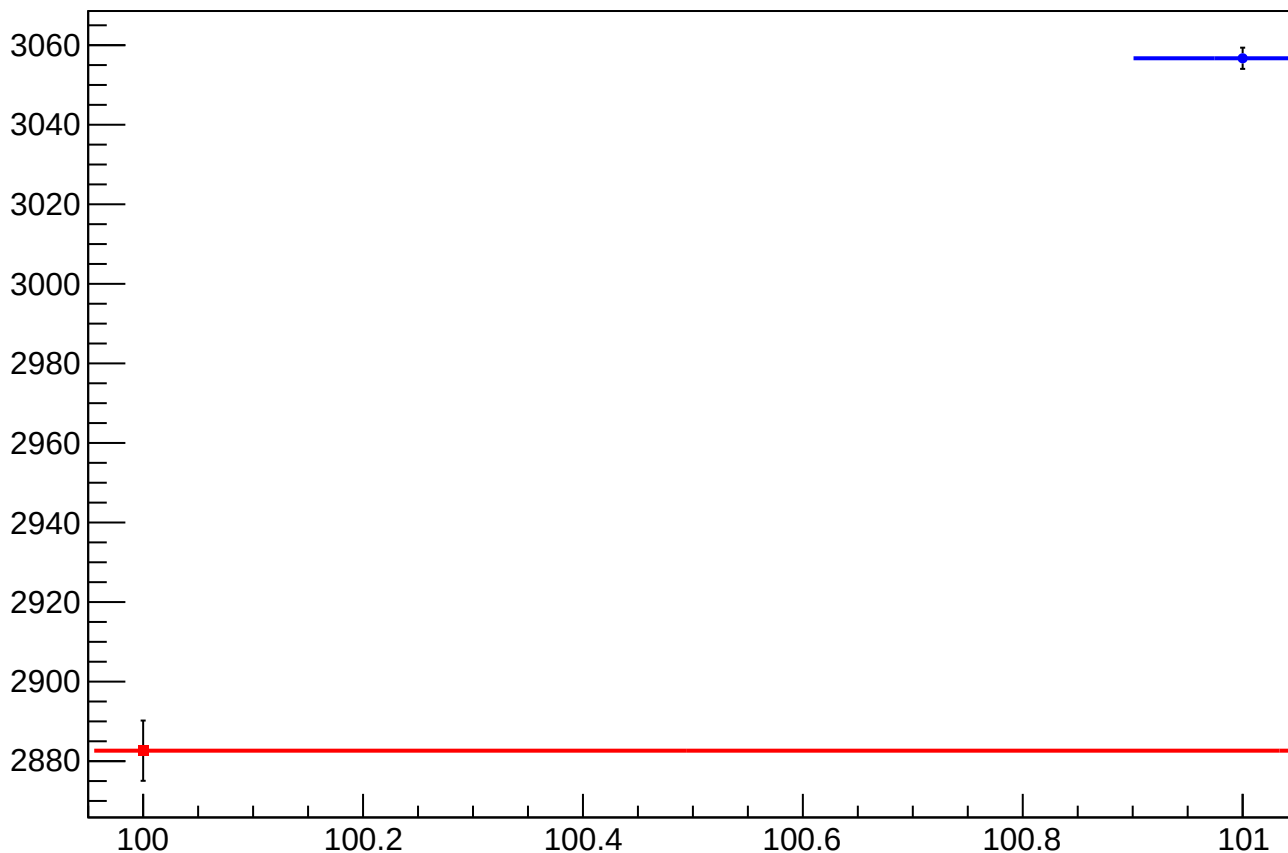
Right: -7.658 $\pm$ 3.556  $\chi^2/\text{NDF}$ : 3.6/1

In: -10.030 $\pm$ 3.769  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.658 $\pm$ 3.556  $\chi^2/\text{NDF}$ : 3.6/1

# diff\_bpm0l01X\_rms vs Slug, Sign Corrected



Right In: 3056.708 $\pm$ 2.665  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2882.638 $\pm$ 7.573  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

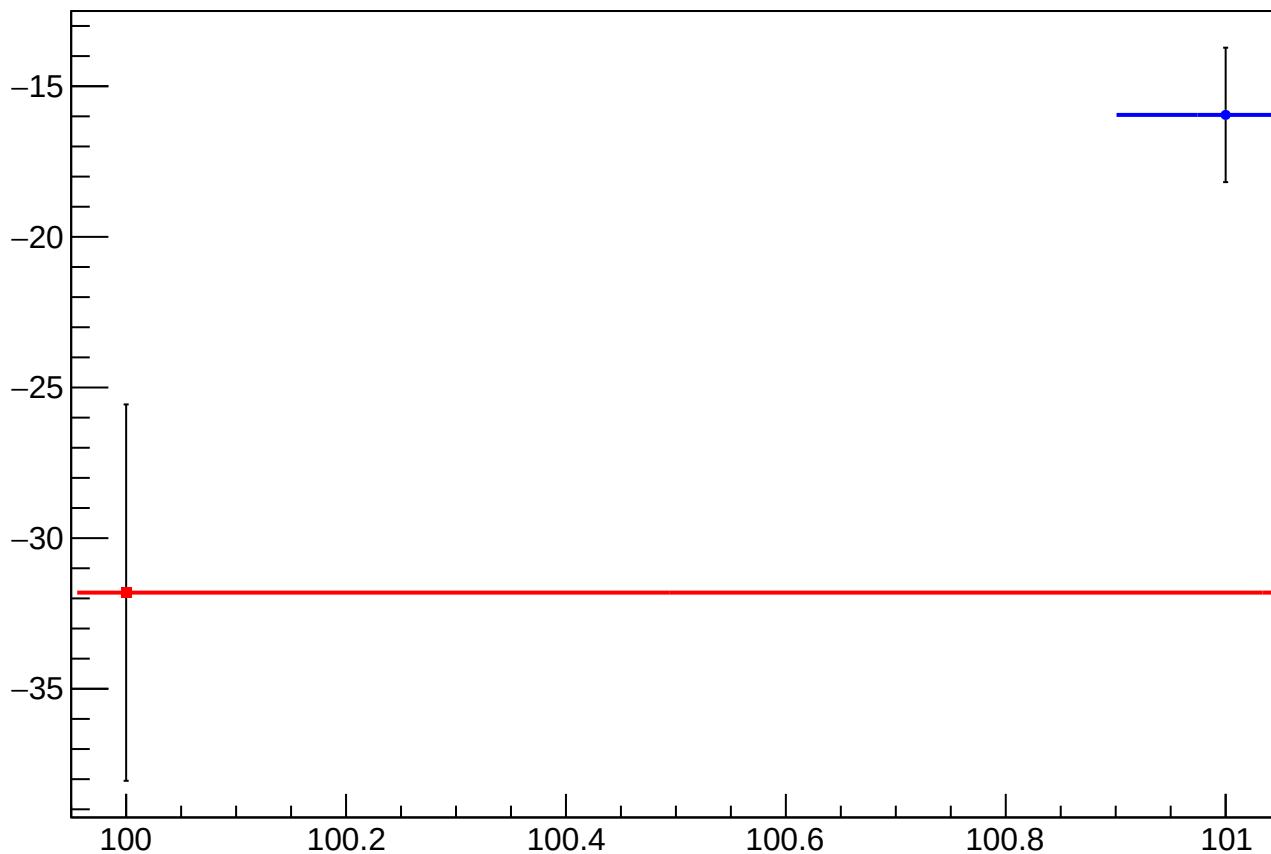
Right: 3037.521 $\pm$ 2.514  $\chi^2$ /NDF: 470.1/1

In: 3056.708 $\pm$ 2.665  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3037.521 $\pm$ 2.514  $\chi^2$ /NDF: 470.1/1

# diff\_bpm0l01Y\_mean vs Slug, Sign Corrected



Right In: -15.952 $\pm$ 2.231  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -31.808 $\pm$ 6.246  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

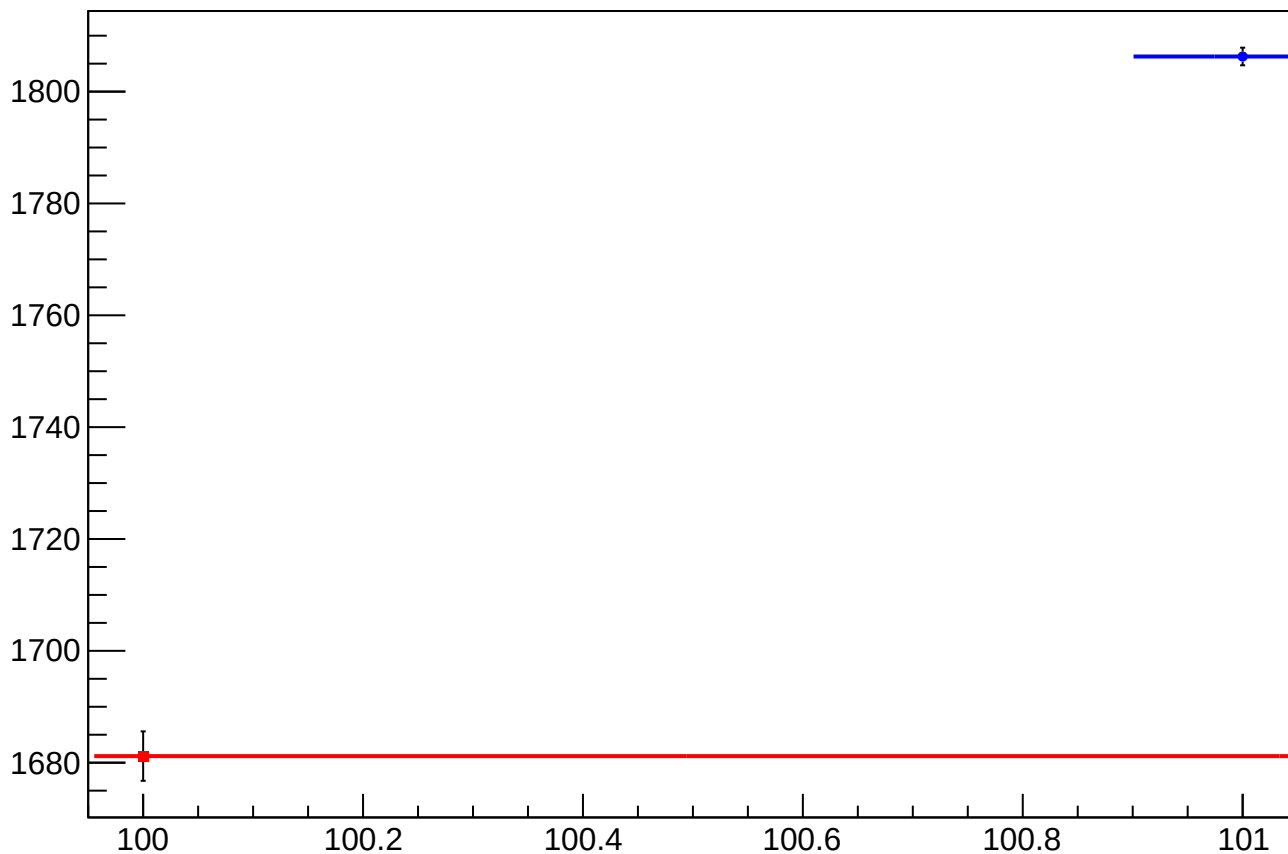
Right: -17.746 $\pm$ 2.101  $\chi^2$ /NDF: 5.7/1

In: -15.952 $\pm$ 2.231  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.746 $\pm$ 2.101  $\chi^2$ /NDF: 5.7/1

# diff\_bpm0l01Y\_rms vs Slug, Sign Corrected



Right In: 1806.278 $\pm$ 1.578  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1681.178 $\pm$ 4.417  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

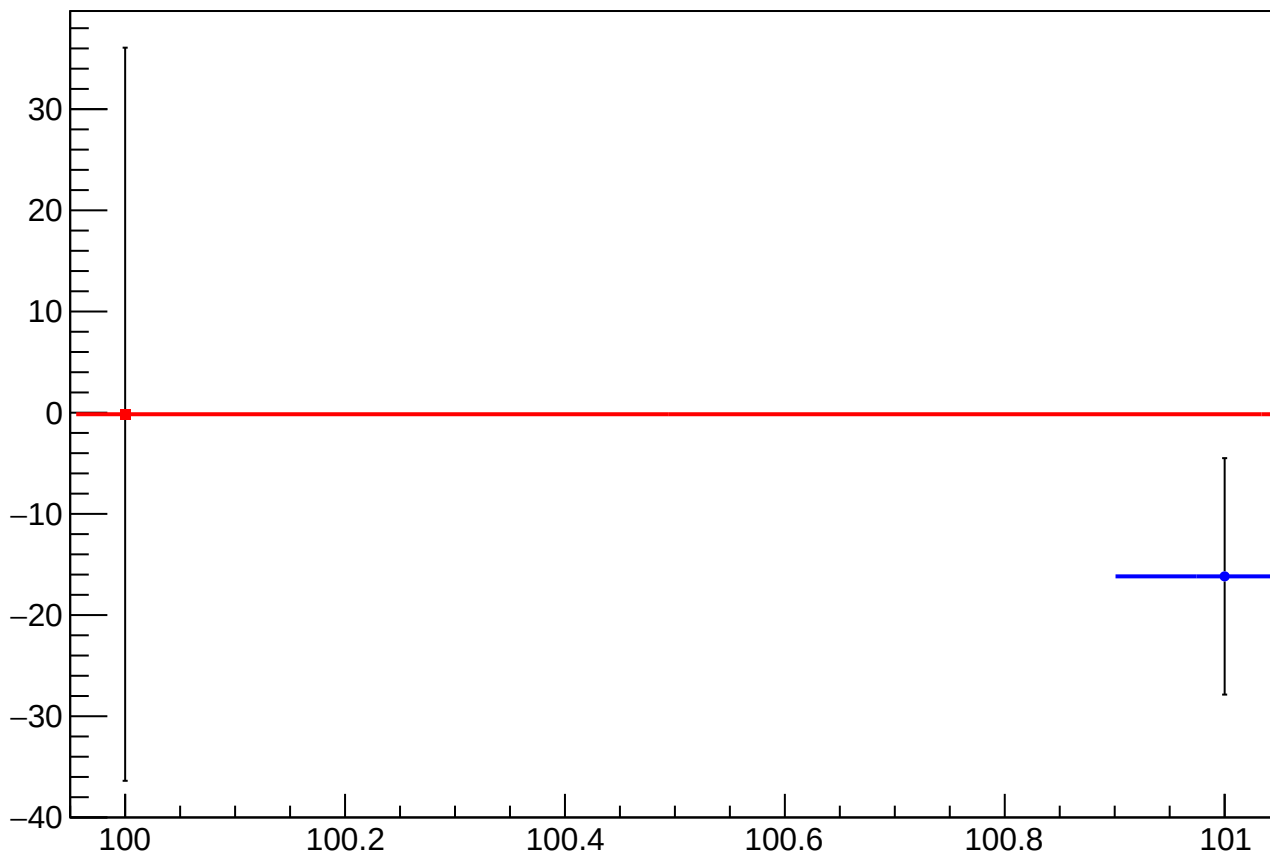
Right: 1792.120 $\pm$ 1.486  $\chi^2$ /NDF: 711.4/1

In: 1806.278 $\pm$ 1.578  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1792.120 $\pm$ 1.486  $\chi^2$ /NDF: 711.4/1

# diff\_bpm0l02X\_mean vs Slug, Sign Corrected



Right In: -16.175+/-11.684  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.152+/-36.228  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

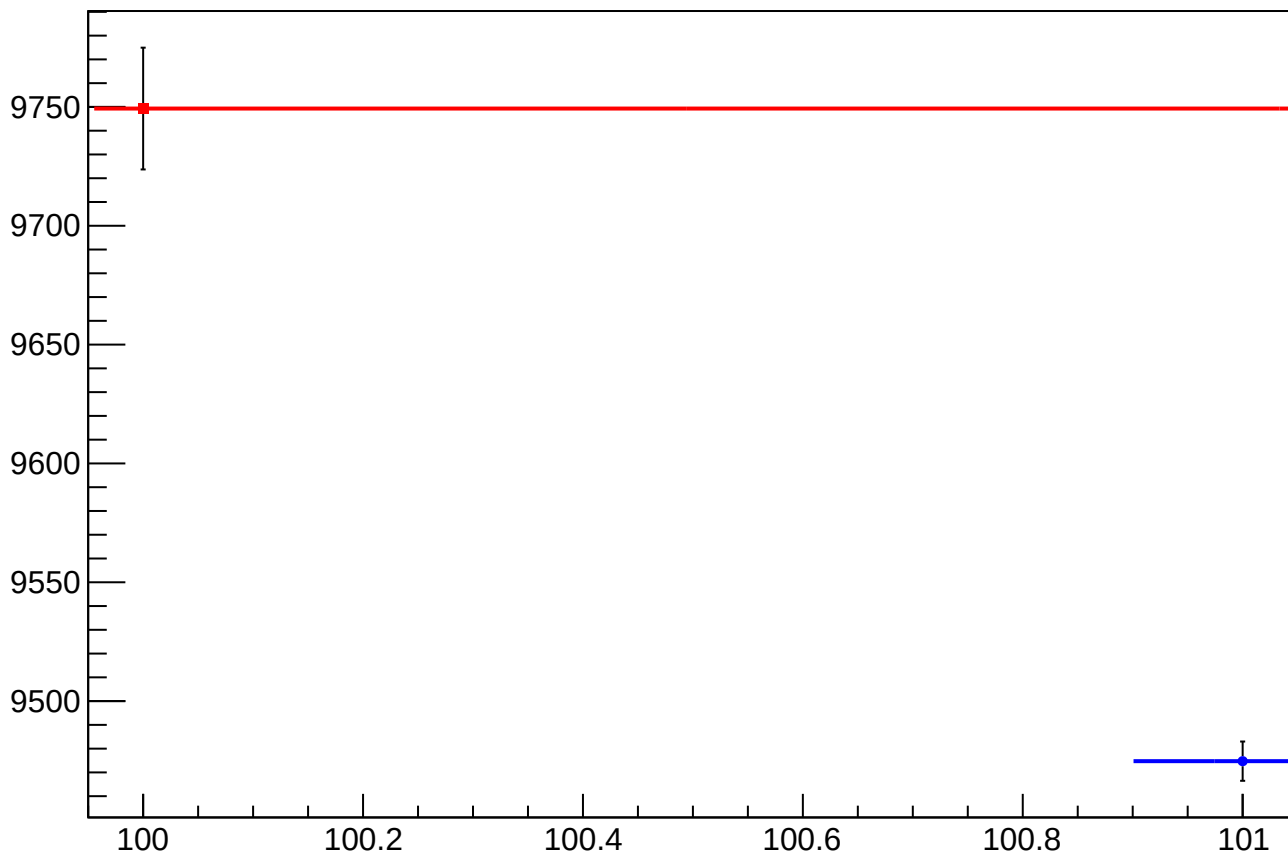
Right: -14.666+/-11.120  $\chi^2/\text{NDF}$ : 0.2/1

In: -16.175+/-11.684  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -14.666+/-11.120  $\chi^2/\text{NDF}$ : 0.2/1

# diff\_bpm0l02X\_rms vs Slug, Sign Corrected



Right In: 9474.732 $\pm$ 8.262  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9749.316 $\pm$ 25.617  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 9500.603 $\pm$ 7.863  $\chi^2/\text{NDF}$ : 104.1/1

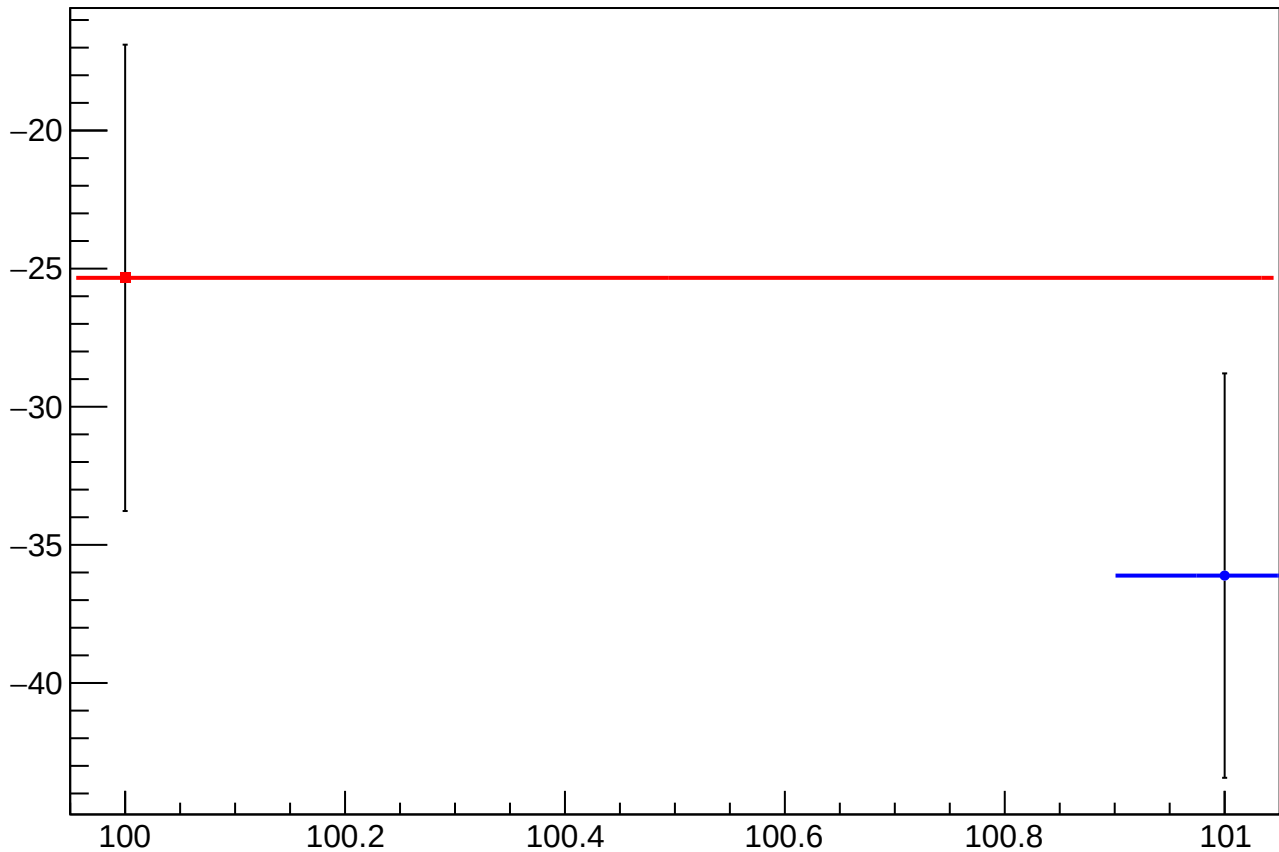
In: 9474.732 $\pm$ 8.262  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9500.603 $\pm$ 7.863  $\chi^2/\text{NDF}$ : 104.1/1



# diff\_bpm0l02Y\_mean vs Slug, Sign Corrected



Right In: -36.112 $\pm$ 7.320  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -25.334 $\pm$ 8.441  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

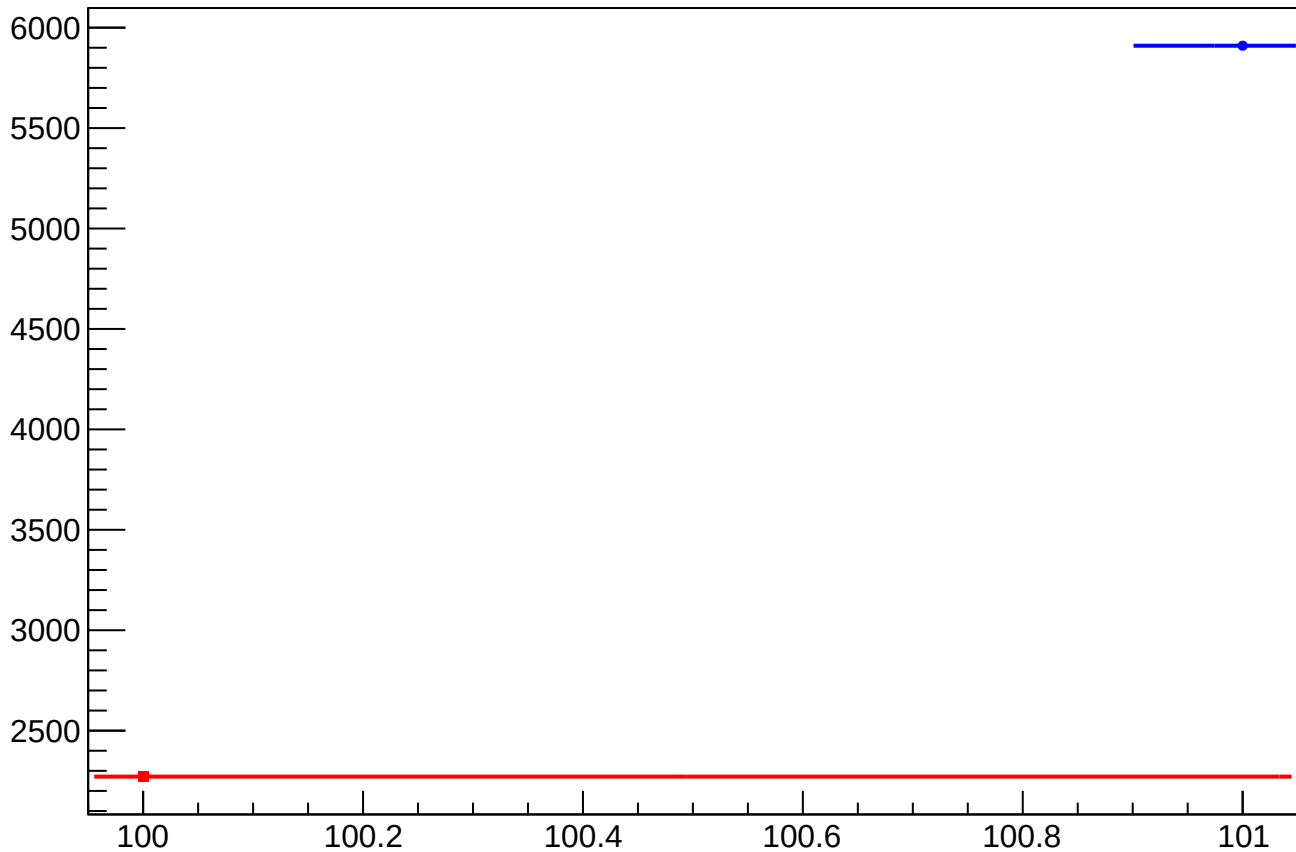
Right: -31.486 $\pm$ 5.530  $\chi^2$ /NDF: 0.9/1

In: -36.112 $\pm$ 7.320  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -31.486 $\pm$ 5.530  $\chi^2$ /NDF: 0.9/1

# diff\_bpm0l02Y\_rms vs Slug, Sign Corrected



Right In: 5910.134+/-5.176  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2271.256+/-5.969  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

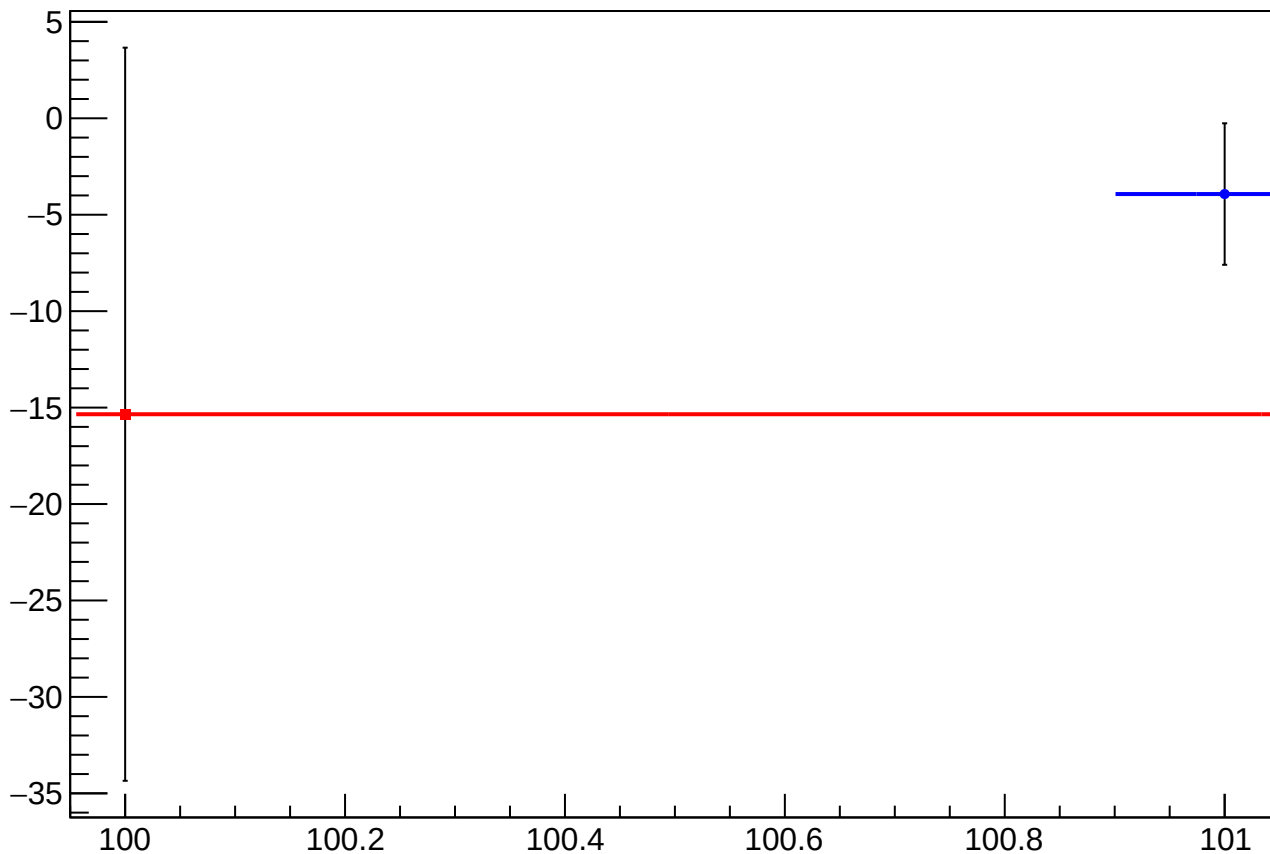
Right: 4348.243+/-3.910  $\chi^2/\text{NDF}$ : 212154.0/1

In: 5910.134+/-5.176  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4348.243+/-3.910  $\chi^2/\text{NDF}$ : 212154.0/1

# diff\_bpm0l03X\_mean vs Slug, Sign Corrected



Right In: -3.928+/-3.668  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.344+/-19.006  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

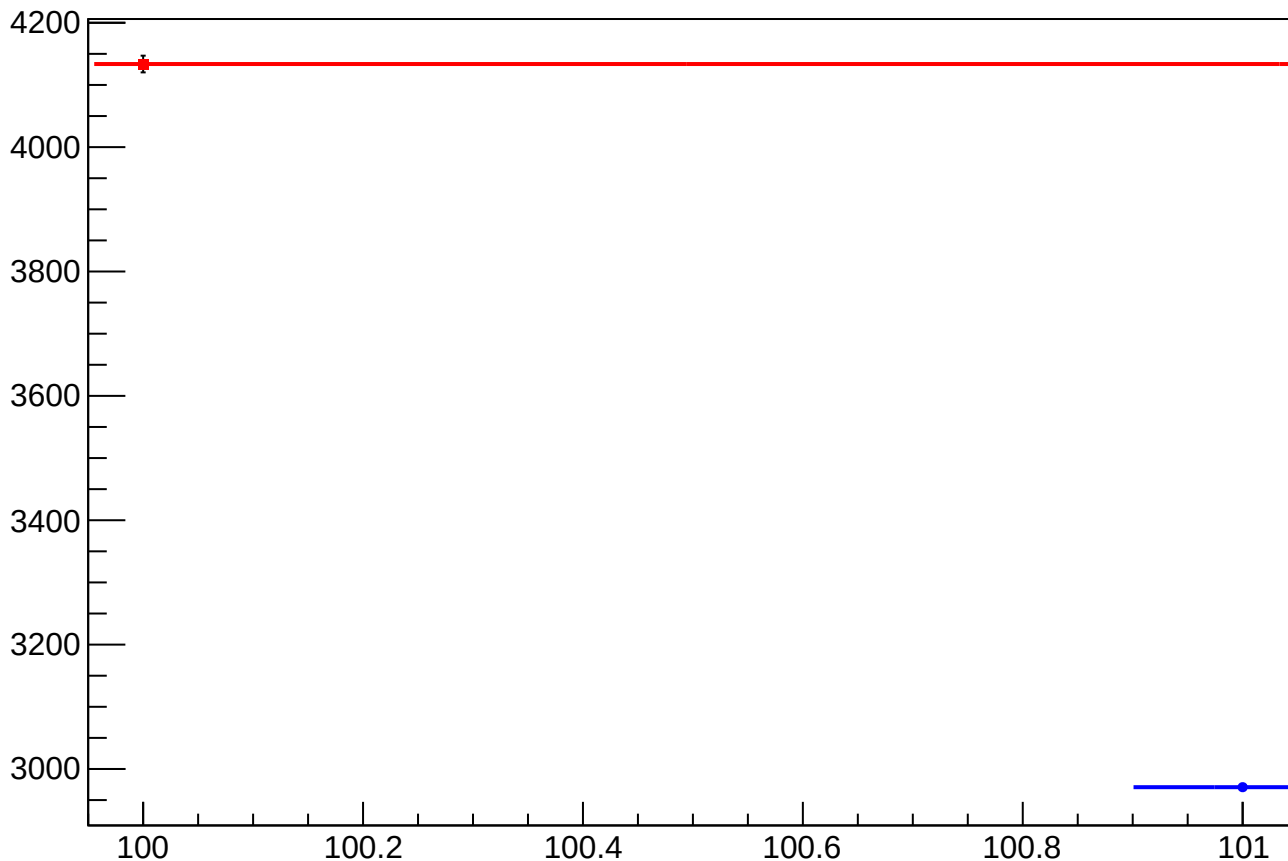
Right: -4.338+/-3.601  $\chi^2/\text{NDF}$ : 0.3/1

In: -3.928+/-3.668  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.338+/-3.601  $\chi^2/\text{NDF}$ : 0.3/1

# diff\_bpm0l03X\_rms vs Slug, Sign Corrected



Right In: 2970.728 $\pm$ 2.593  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4133.643 $\pm$ 13.439  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

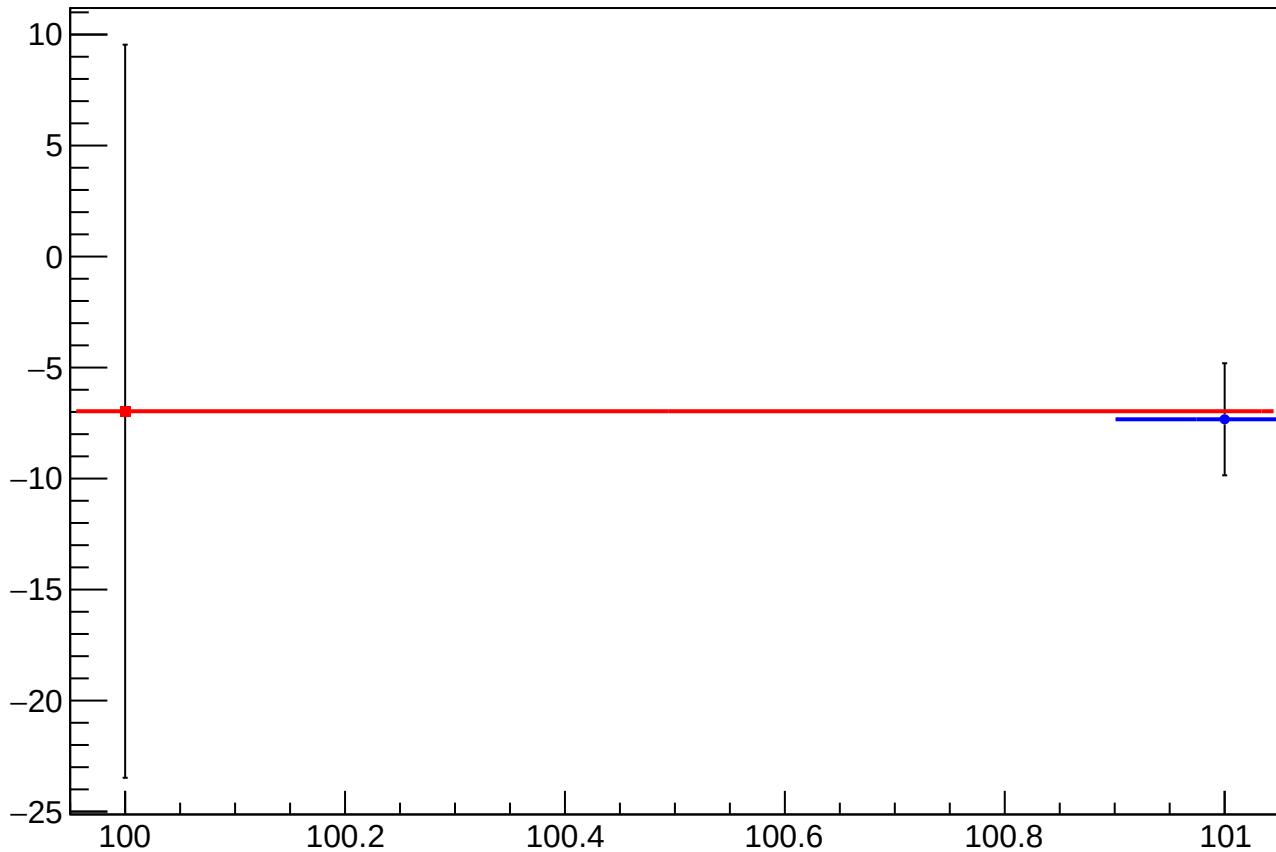
Right: 3012.479 $\pm$ 2.546  $\chi^2$ /NDF: 7219.1/1

In: 2970.728 $\pm$ 2.593  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3012.479 $\pm$ 2.546  $\chi^2$ /NDF: 7219.1/1

# diff\_bpm0l03Y\_mean vs Slug, Sign Corrected



Right In: -7.330+/-2.524  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.967+/-16.511  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

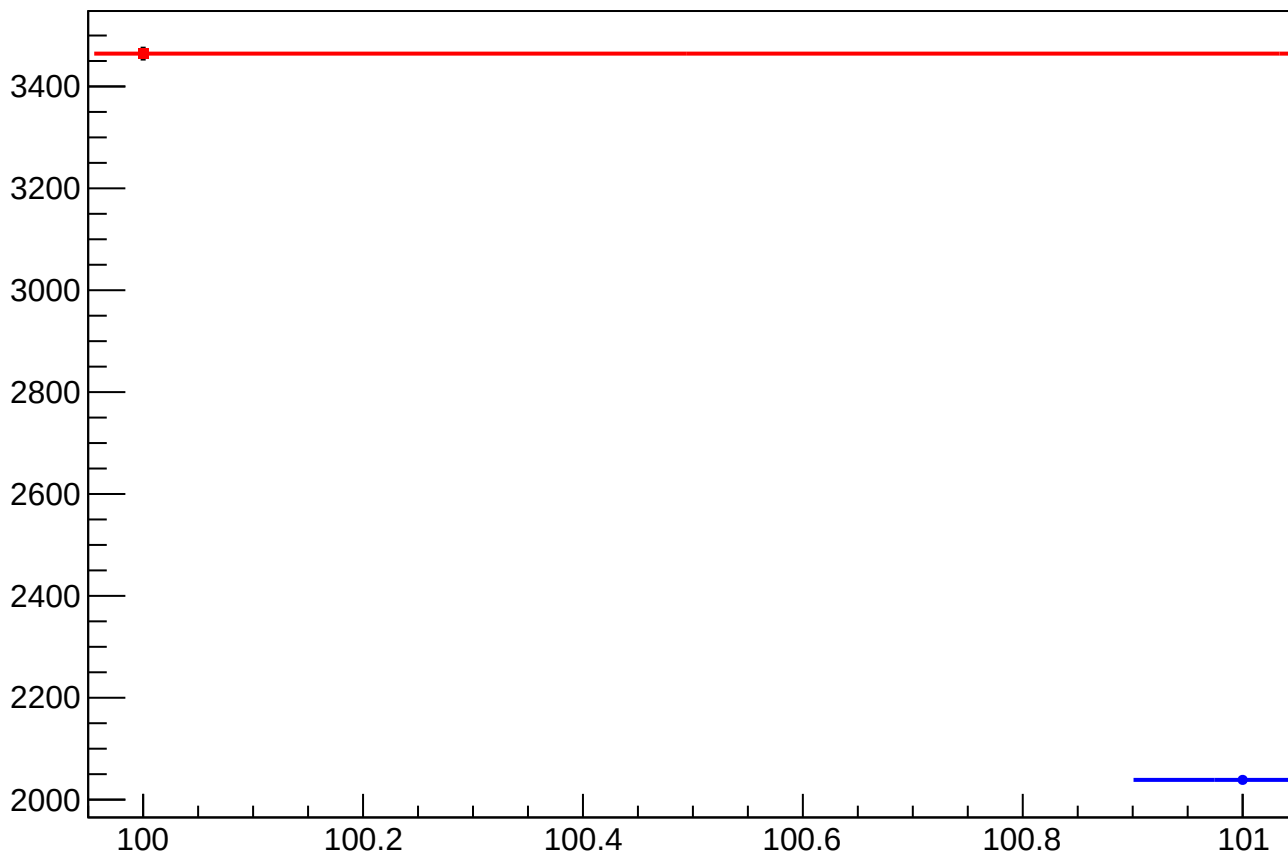
Right: -7.322+/-2.495  $\chi^2/\text{NDF}$ : 0.0/1

In: -7.330+/-2.524  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.322+/-2.495  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_bpm0l03Y\_rms vs Slug, Sign Corrected



Right In: 2038.765 $\pm$ 1.785  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3464.471 $\pm$ 11.675  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

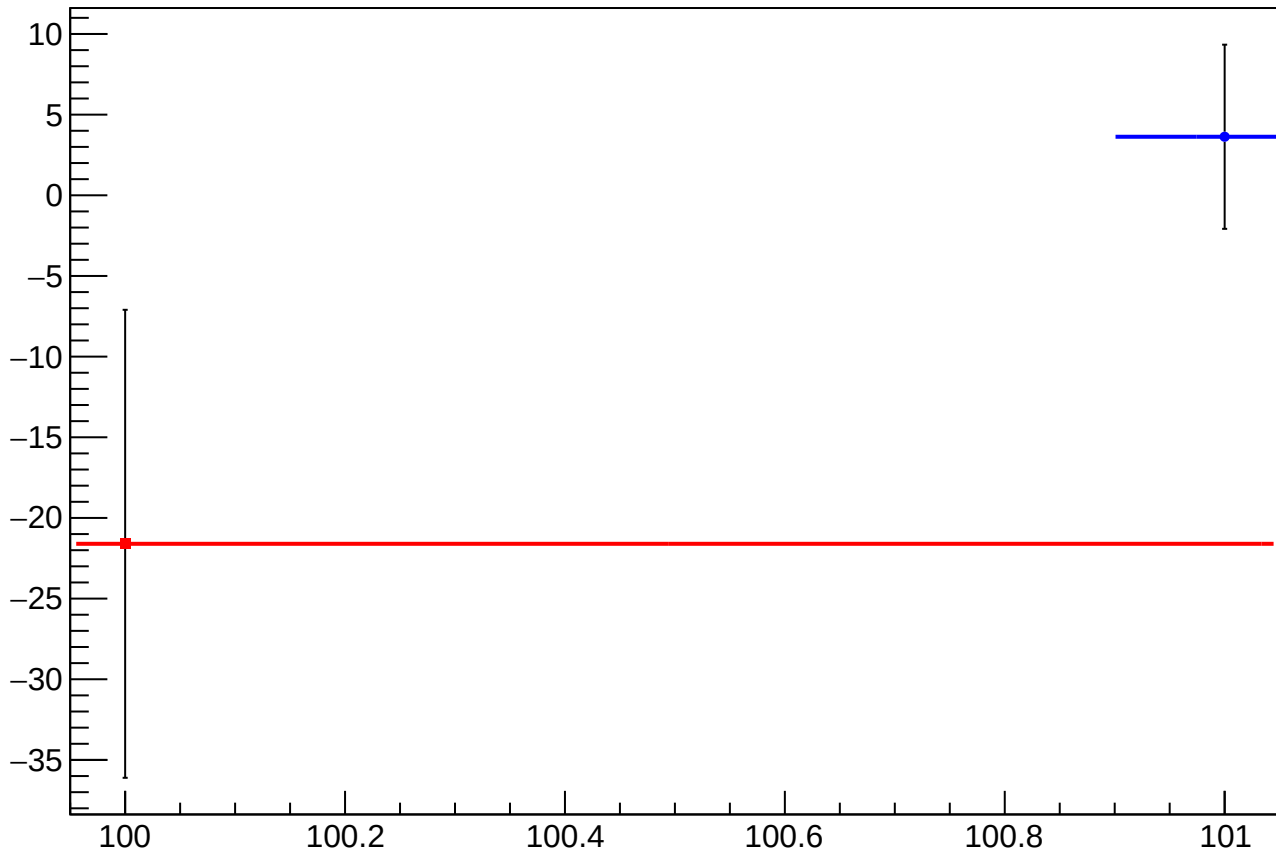
Right: 2071.316 $\pm$ 1.764  $\chi^2/\text{NDF}$ : 14571.9/1

In: 2038.765 $\pm$ 1.785  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2071.316 $\pm$ 1.764  $\chi^2/\text{NDF}$ : 14571.9/1

# diff\_bpm0l04X\_mean vs Slug, Sign Corrected



Right In: 3.629+/-5.708  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -21.604+/-14.505  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

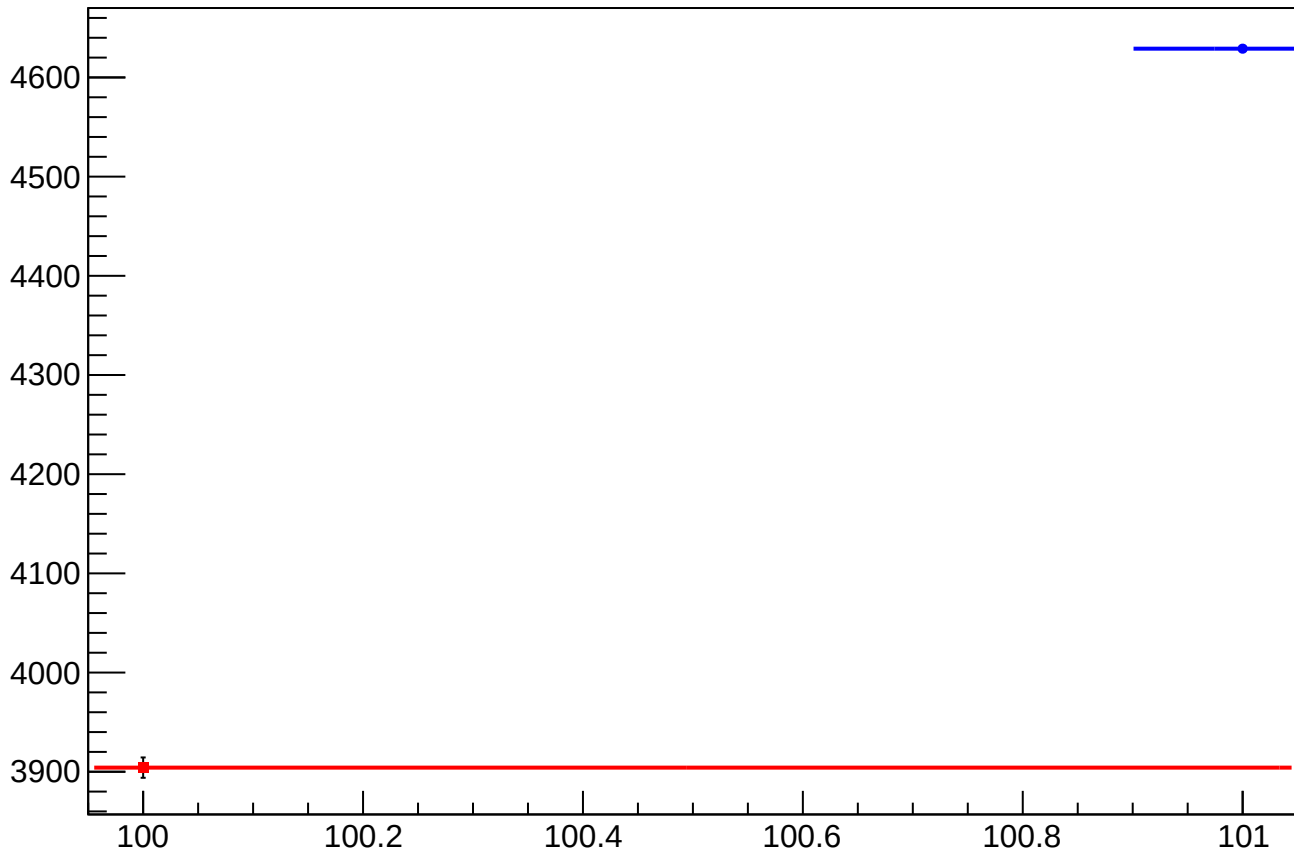
Right: 0.245+/-5.312  $\chi^2/\text{NDF}$ : 2.6/1

In: 3.629+/-5.708  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.245+/-5.312  $\chi^2/\text{NDF}$ : 2.6/1

# diff\_bpm0l04X\_rms vs Slug, Sign Corrected



Right In: 4629.006+/-4.036  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3904.156+/-10.257  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4531.801+/-3.756  $\chi^2/\text{NDF}$ : 4324.7/1

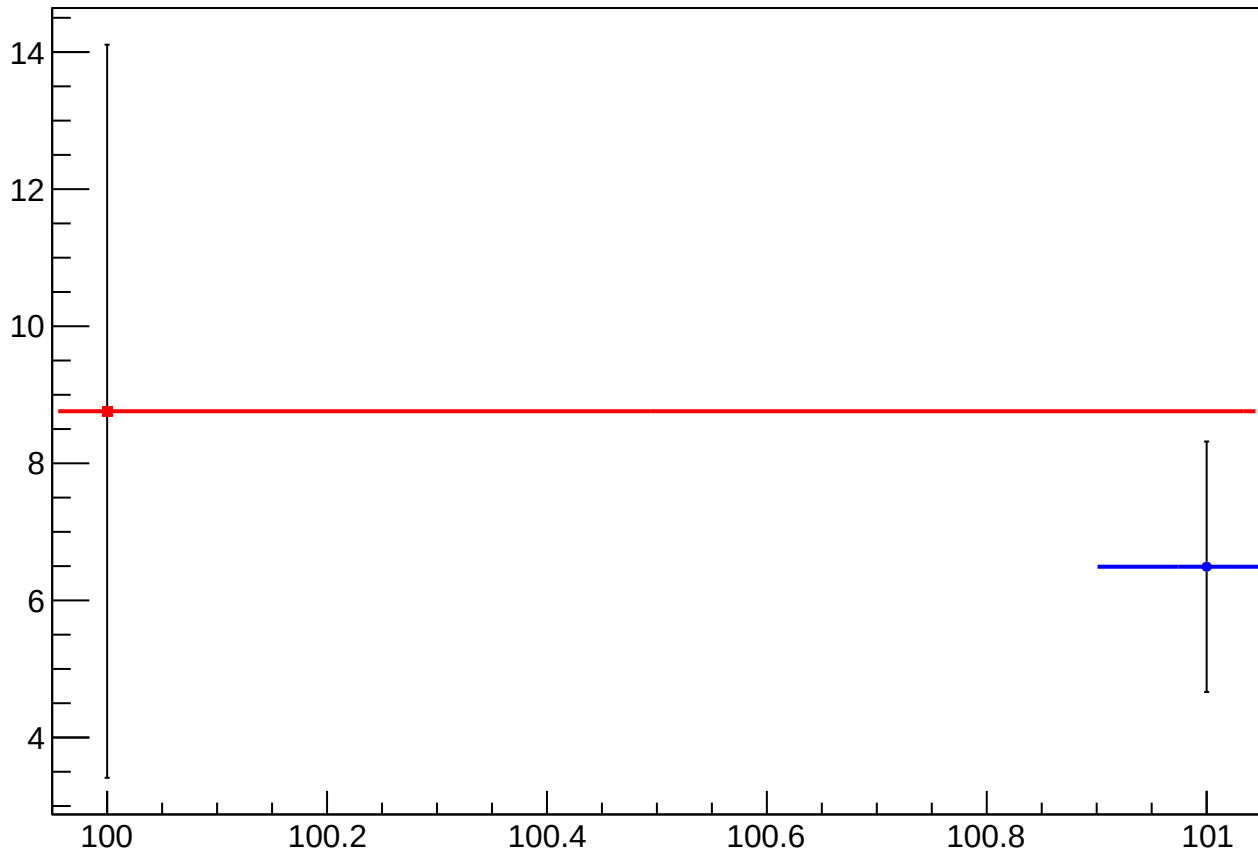
In: 4629.006+/-4.036  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4531.801+/-3.756  $\chi^2/\text{NDF}$ : 4324.7/1



# diff\_bpm0l04Y\_mean vs Slug, Sign Corrected



Right In: 6.491+/-1.827  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8.760+/-5.348  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

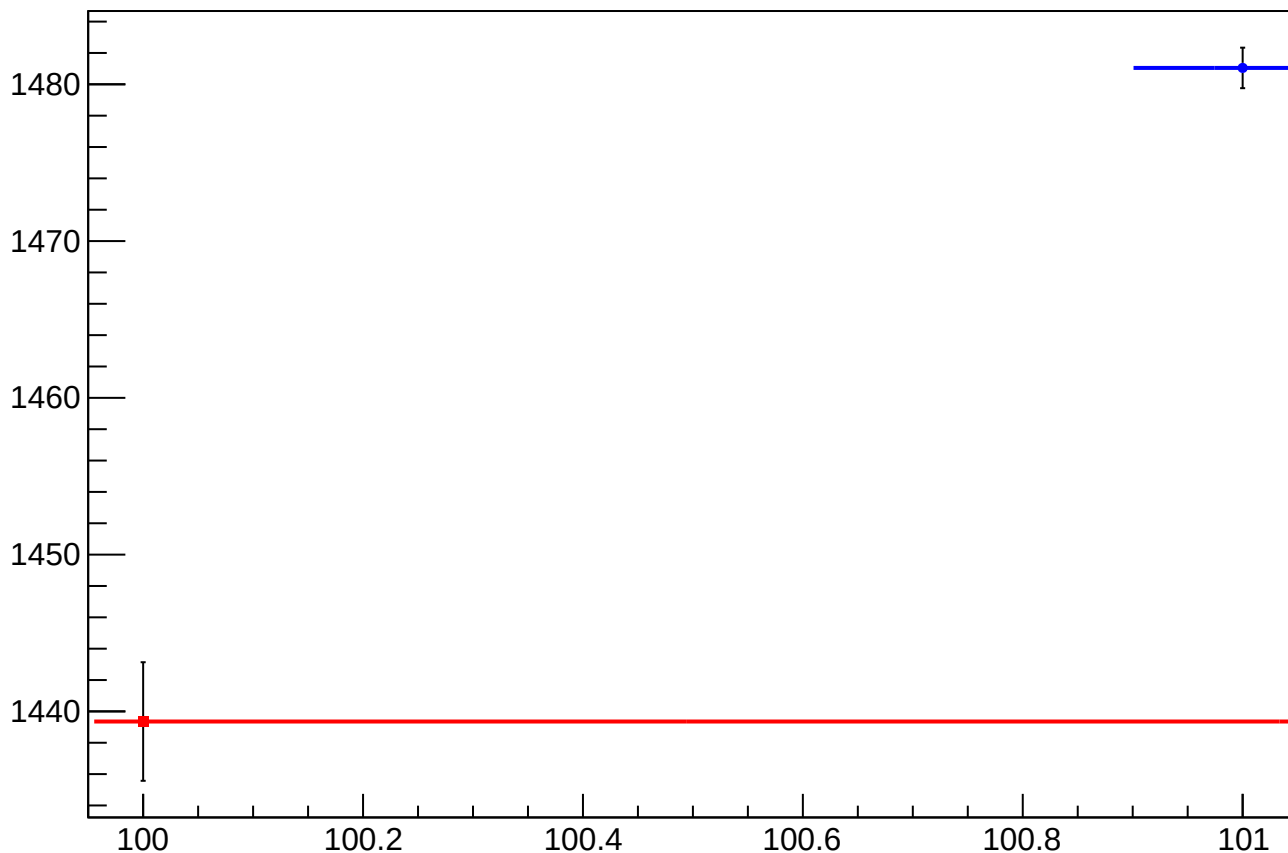
Right: 6.728+/-1.729  $\chi^2/\text{NDF}$ : 0.2/1

In: 6.491+/-1.827  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.728+/-1.729  $\chi^2/\text{NDF}$ : 0.2/1

# diff\_bpm0l04Y\_rms vs Slug, Sign Corrected



Right In: 1481.045 $\pm$ 1.292  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1439.354 $\pm$ 3.782  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

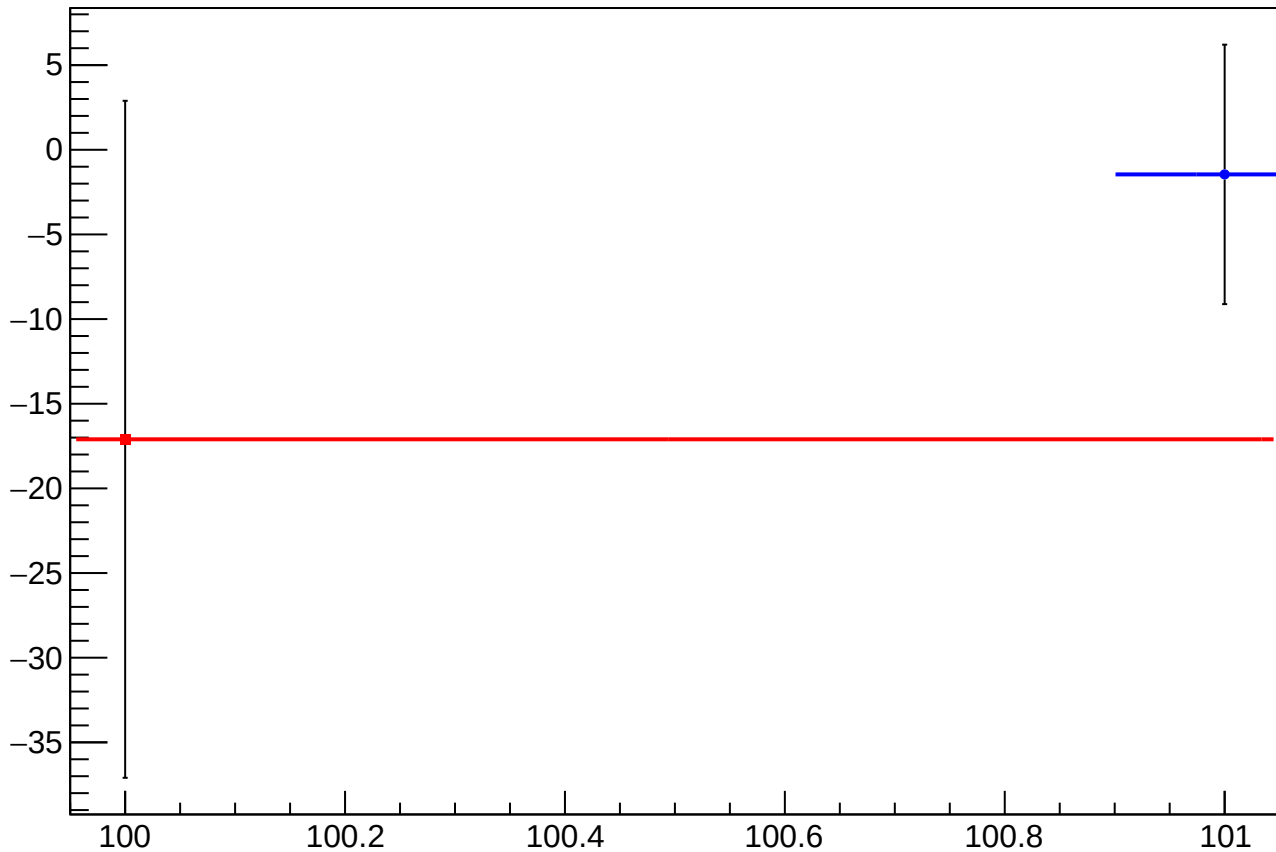
Right: 1476.688 $\pm$ 1.223  $\chi^2/\text{NDF}$ : 108.8/1

In: 1481.045 $\pm$ 1.292  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1476.688 $\pm$ 1.223  $\chi^2/\text{NDF}$ : 108.8/1

# diff\_bpm0l05X\_mean vs Slug, Sign Corrected



Right In: -1.454+/-7.662  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17.101+/-19.993  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

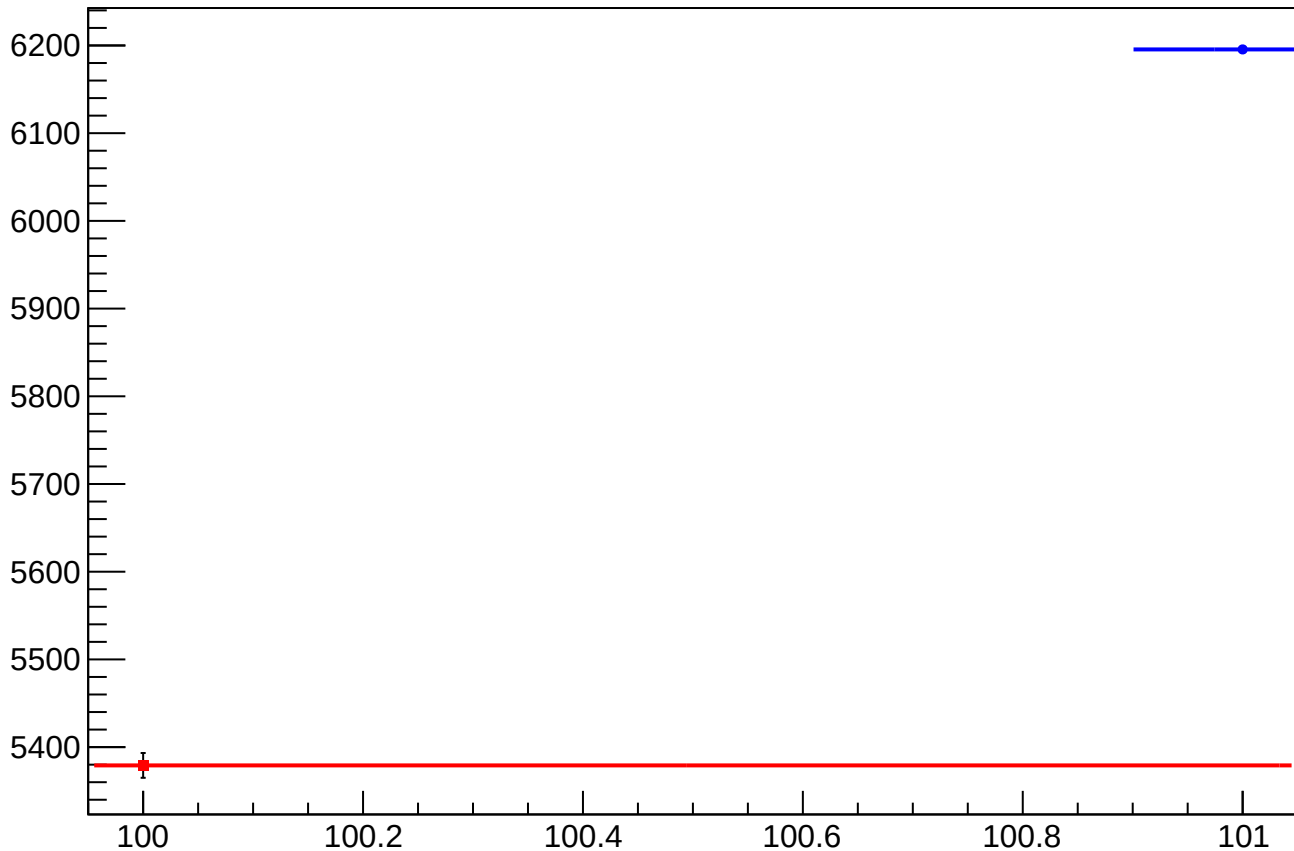
Right: -3.458+/-7.155  $\chi^2/\text{NDF}$ : 0.5/1

In: -1.454+/-7.662  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.458+/-7.155  $\chi^2/\text{NDF}$ : 0.5/1

# diff\_bpm0l05X\_rms vs Slug, Sign Corrected



Right In: 6195.497 $\pm$ 5.418  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5379.158 $\pm$ 14.137  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

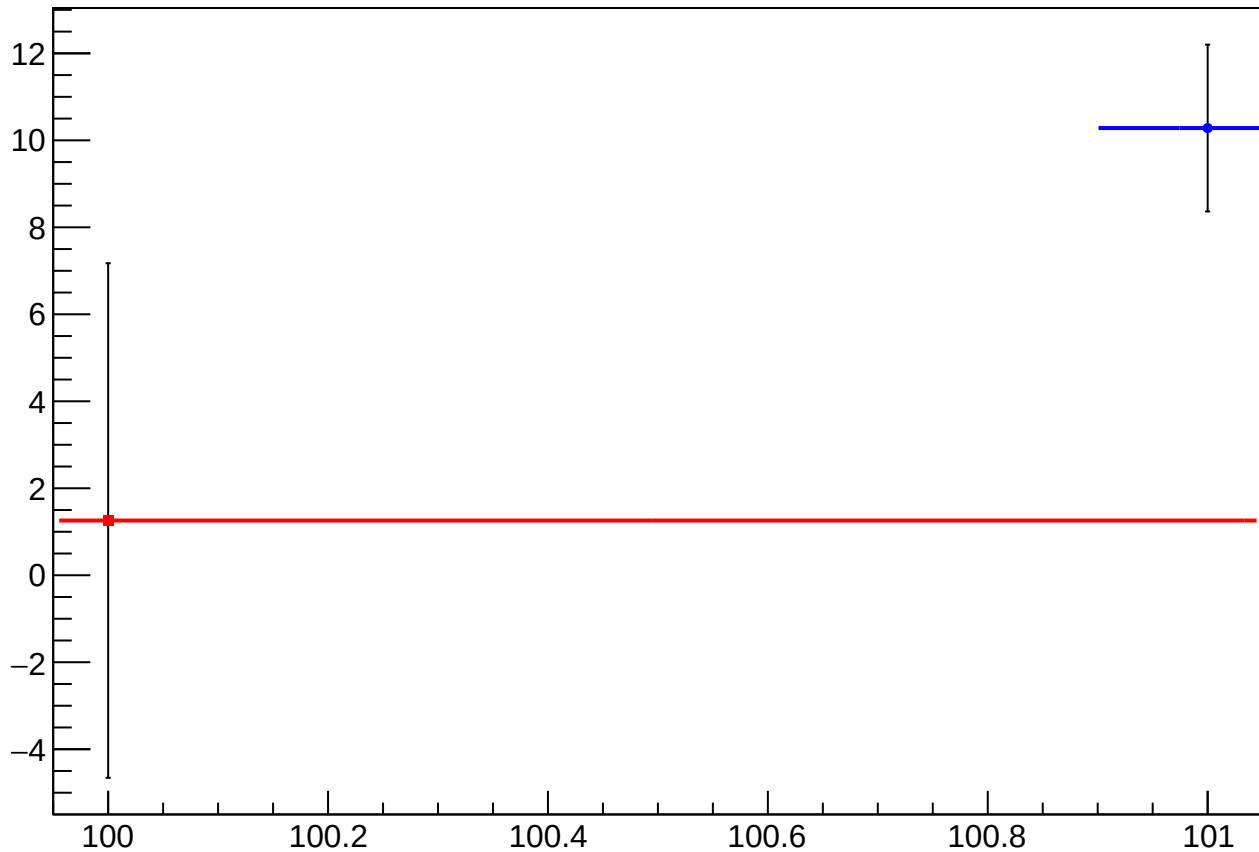
Right: 6090.955 $\pm$ 5.059  $\chi^2$ /NDF: 2907.3/1

In: 6195.497 $\pm$ 5.418  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 6090.955 $\pm$ 5.059  $\chi^2$ /NDF: 2907.3/1

# diff\_bpm0l05Y\_mean vs Slug, Sign Corrected



Right In: 10.282 $\pm$ 1.917  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.259 $\pm$ 5.916  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

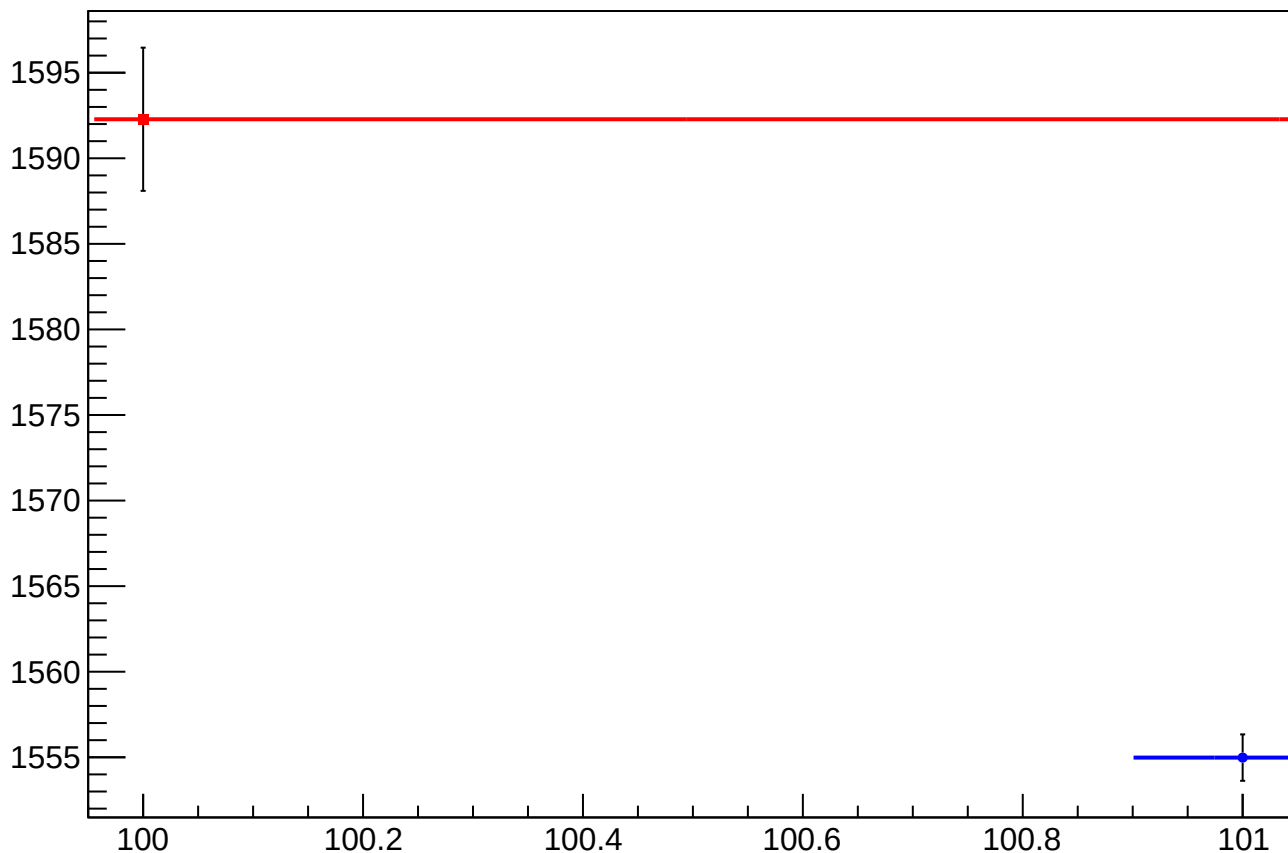
Right: 9.424 $\pm$ 1.824  $\chi^2$ /NDF: 2.1/1

In: 10.282 $\pm$ 1.917  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.424 $\pm$ 1.824  $\chi^2$ /NDF: 2.1/1

# diff\_bpm0l05Y\_rms vs Slug, Sign Corrected



Right In: 1554.982 $\pm$ 1.356  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1592.280 $\pm$ 4.183  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

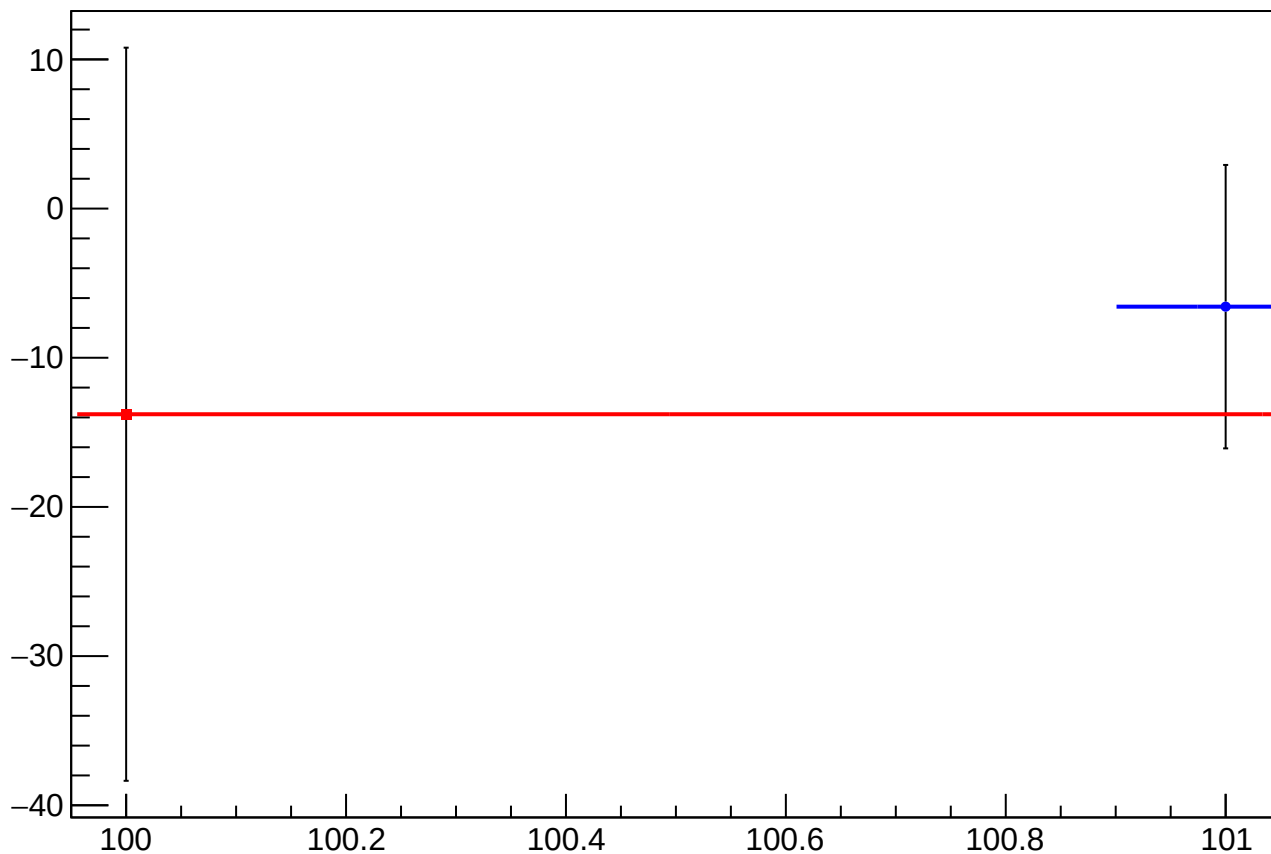
Right: 1558.528 $\pm$ 1.290  $\chi^2$ /NDF: 71.9/1

In: 1554.982 $\pm$ 1.356  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1558.528 $\pm$ 1.290  $\chi^2$ /NDF: 71.9/1

# diff\_bpm0l06X\_mean vs Slug, Sign Corrected



Right In: -6.575+/-9.500  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.786+/-24.573  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

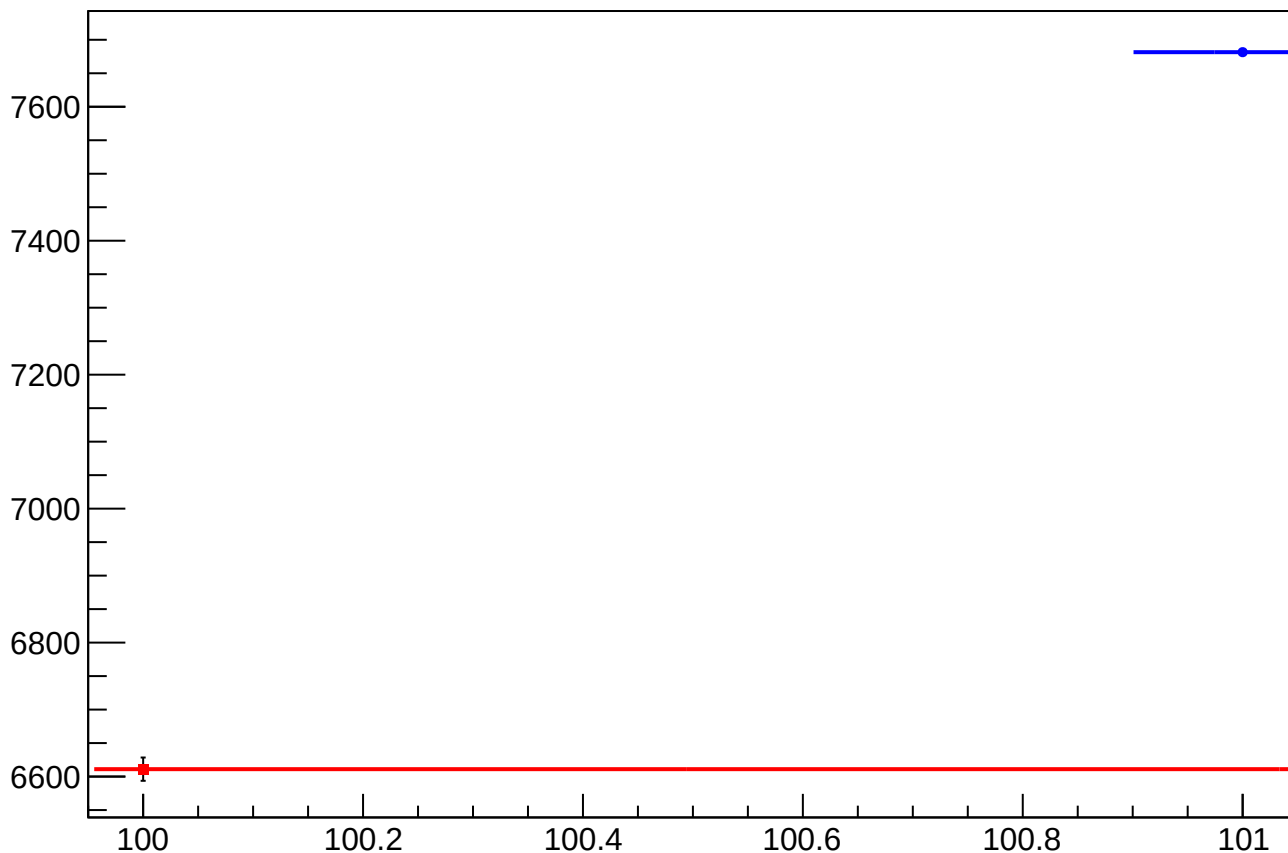
Right: -7.513+/-8.861  $\chi^2/\text{NDF}$ : 0.1/1

In: -6.575+/-9.500  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.513+/-8.861  $\chi^2/\text{NDF}$ : 0.1/1

# diff\_bpm0l06X\_rms vs Slug, Sign Corrected



Right In: 7681.499+/-6.718  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6611.054+/-17.376  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 7542.304+/-6.266  $\chi^2/\text{NDF}$ : 3301.8/1

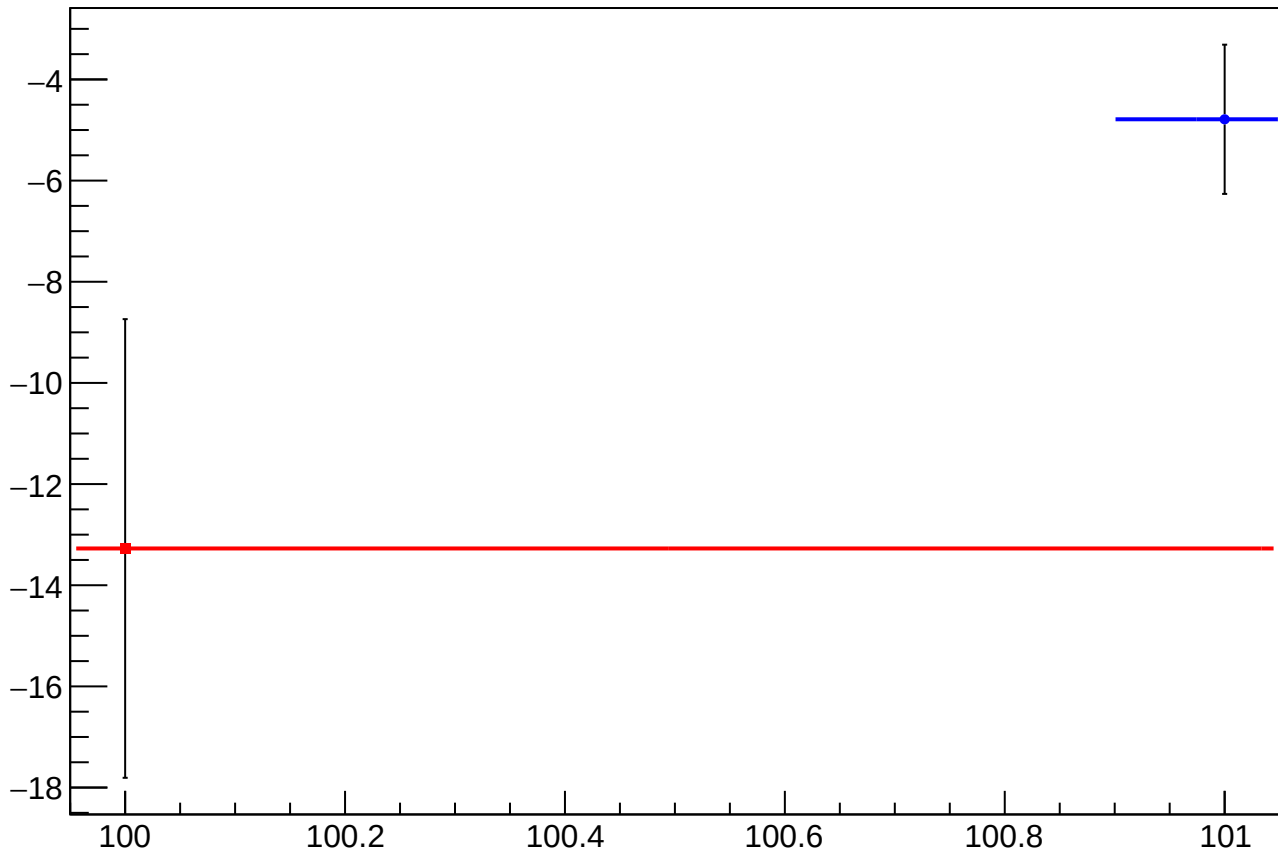
In: 7681.499+/-6.718  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7542.304+/-6.266  $\chi^2/\text{NDF}$ : 3301.8/1



# diff\_bpm0l06Y\_mean vs Slug, Sign Corrected



Right In: -4.788+/-1.475  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.273+/-4.534  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

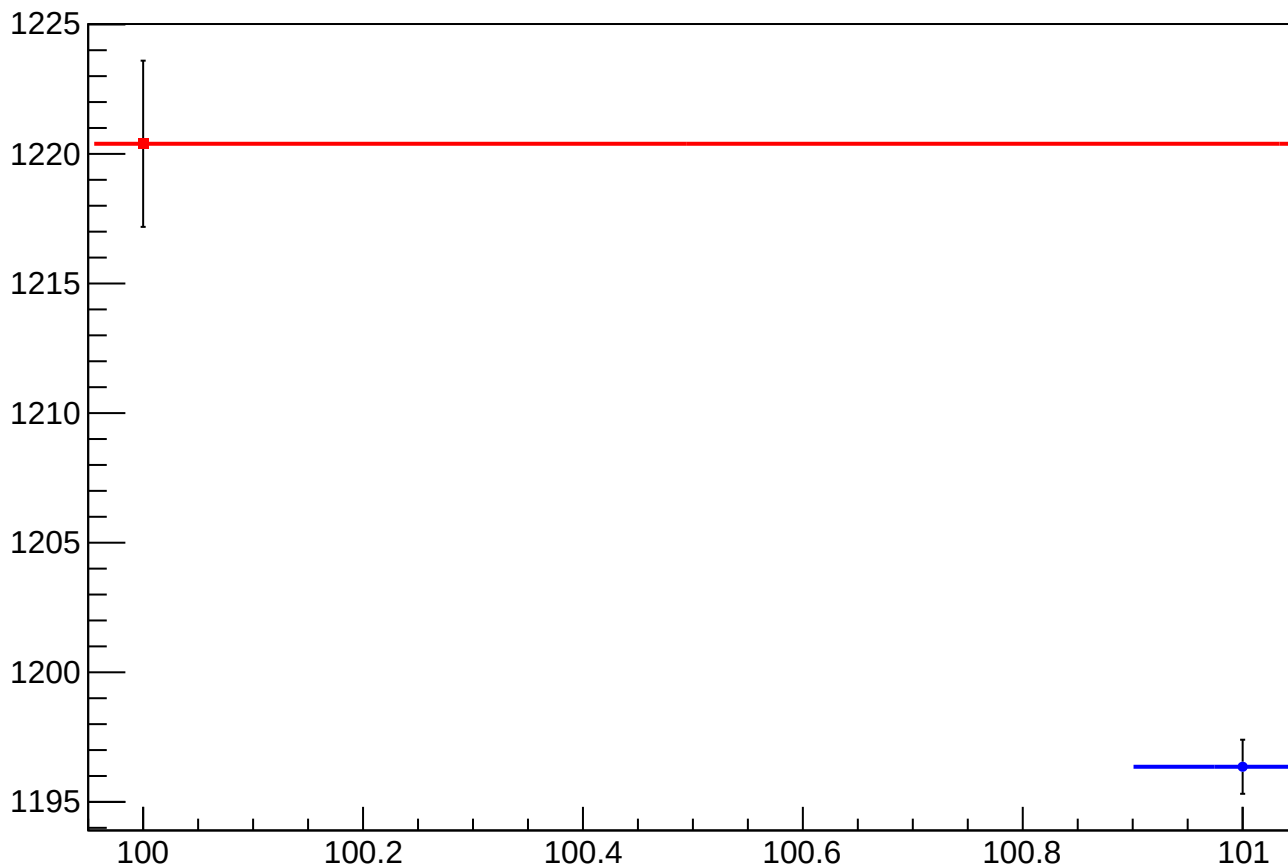
Right: -5.600+/-1.403  $\chi^2/\text{NDF}$ : 3.2/1

In: -4.788+/-1.475  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.600+/-1.403  $\chi^2/\text{NDF}$ : 3.2/1

# diff\_bpm0l06Y\_rms vs Slug, Sign Corrected



Right In: 1196.356 $\pm$ 1.043  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1220.391 $\pm$ 3.206  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

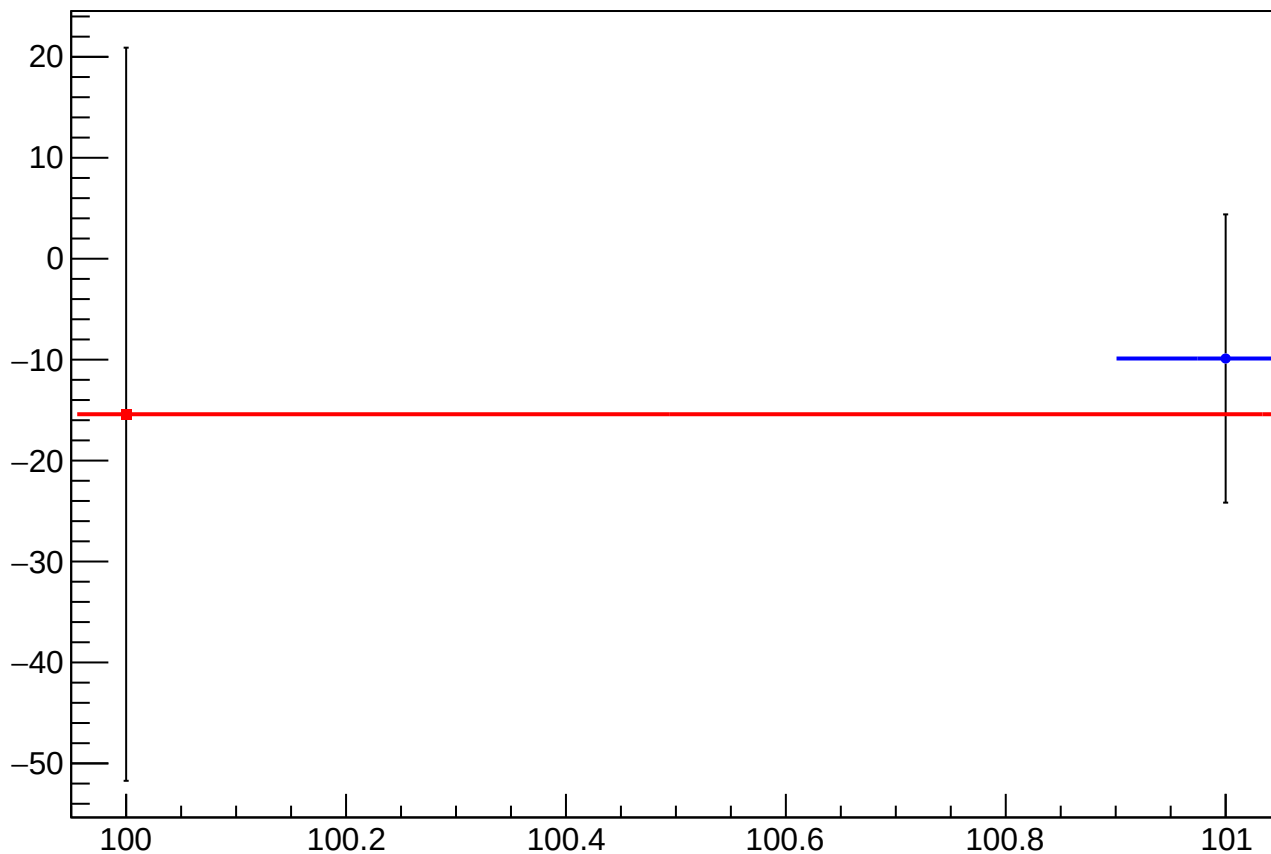
Right: 1198.657 $\pm$ 0.992  $\chi^2/\text{NDF}$ : 50.8/1

In: 1196.356 $\pm$ 1.043  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1198.657 $\pm$ 0.992  $\chi^2/\text{NDF}$ : 50.8/1

# diff\_bpm0l07X\_mean vs Slug, Sign Corrected



Right In: -9.887+/-14.279  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.408+/-36.317  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

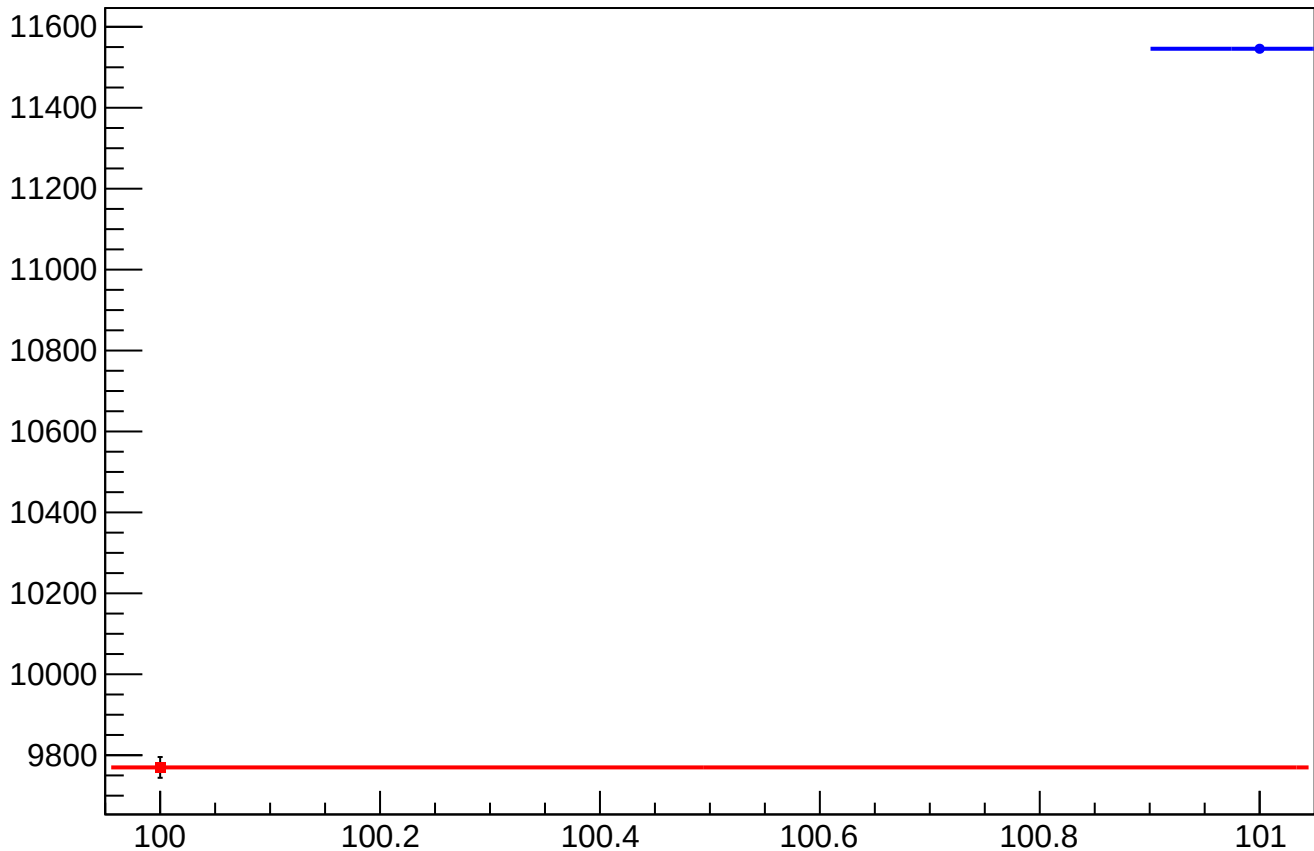
Right: -10.626+/-13.289  $\chi^2/\text{NDF}$ : 0.0/1

In: -9.887+/-14.279  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -10.626+/-13.289  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_bpm0l07X\_rms vs Slug, Sign Corrected



Right In: 11545.814 $\pm$ 10.097  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9769.818 $\pm$ 25.680  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

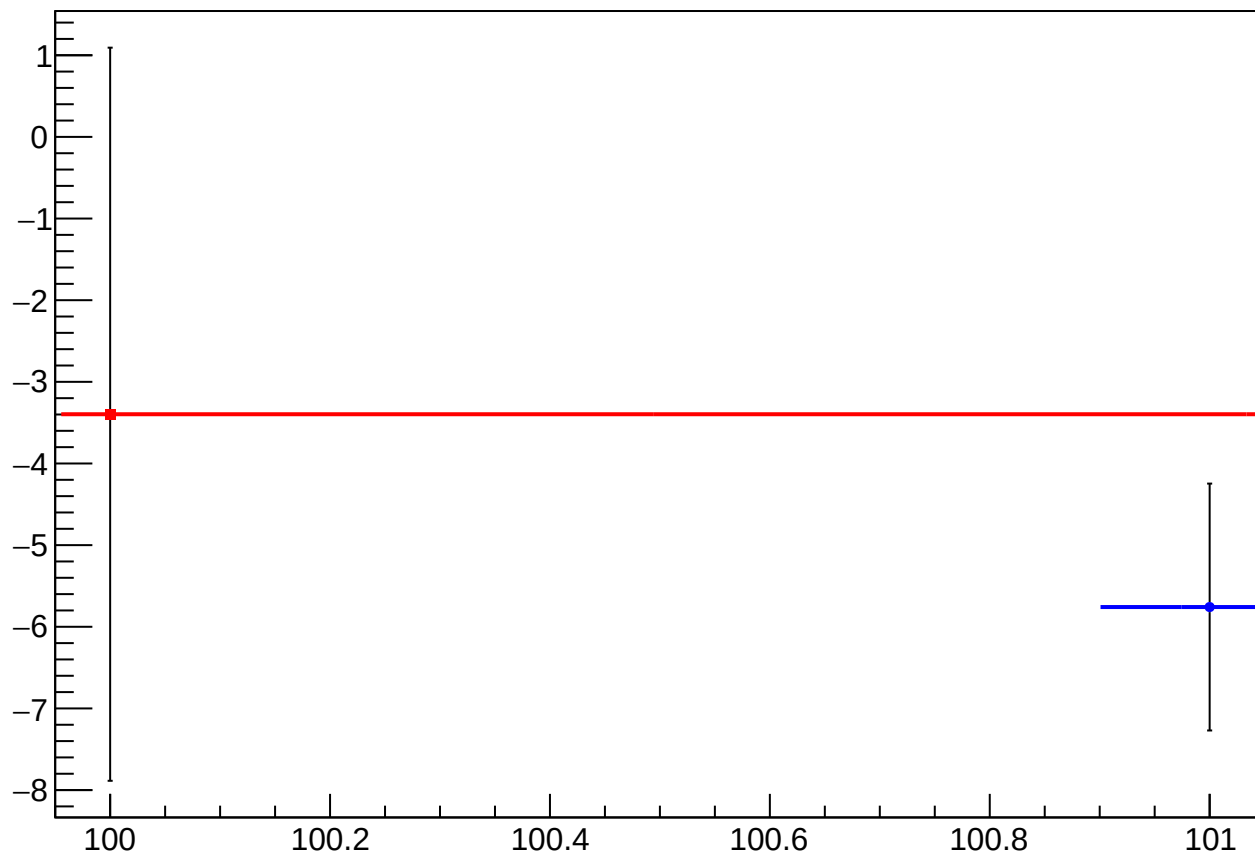
Right: 11308.025 $\pm$ 9.397  $\chi^2/\text{NDF}$ : 4142.6/1

In: 11545.814 $\pm$ 10.097  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11308.025 $\pm$ 9.397  $\chi^2/\text{NDF}$ : 4142.6/1

# diff\_bpm0l07Y\_mean vs Slug, Sign Corrected



Right In: -5.758+/-1.512  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.397+/-4.490  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

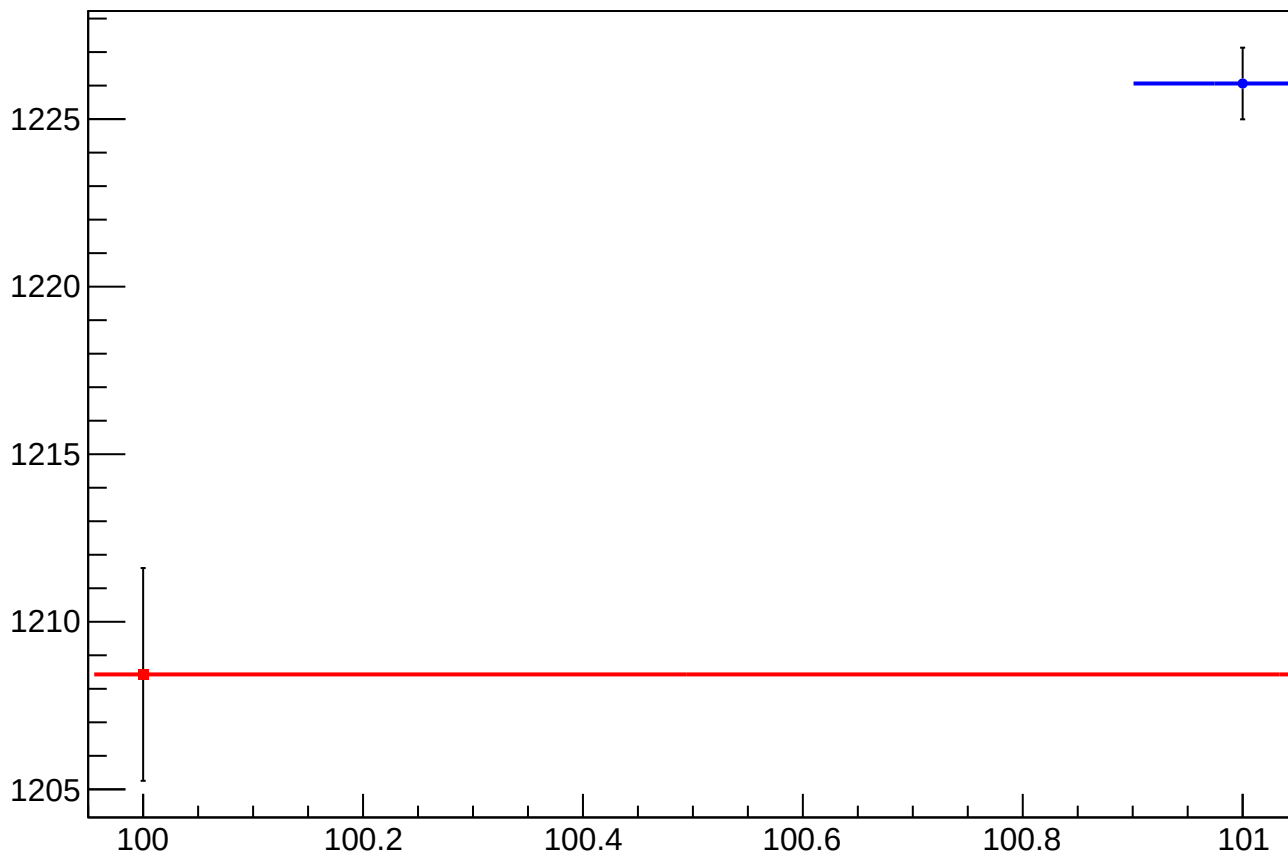
Right: -5.518+/-1.433  $\chi^2/\text{NDF}$ : 0.2/1

In: -5.758+/-1.512  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.518+/-1.433  $\chi^2/\text{NDF}$ : 0.2/1

# diff\_bpm0l07Y\_rms vs Slug, Sign Corrected



Right In: 1226.063+/-1.069  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1208.429+/-3.175  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

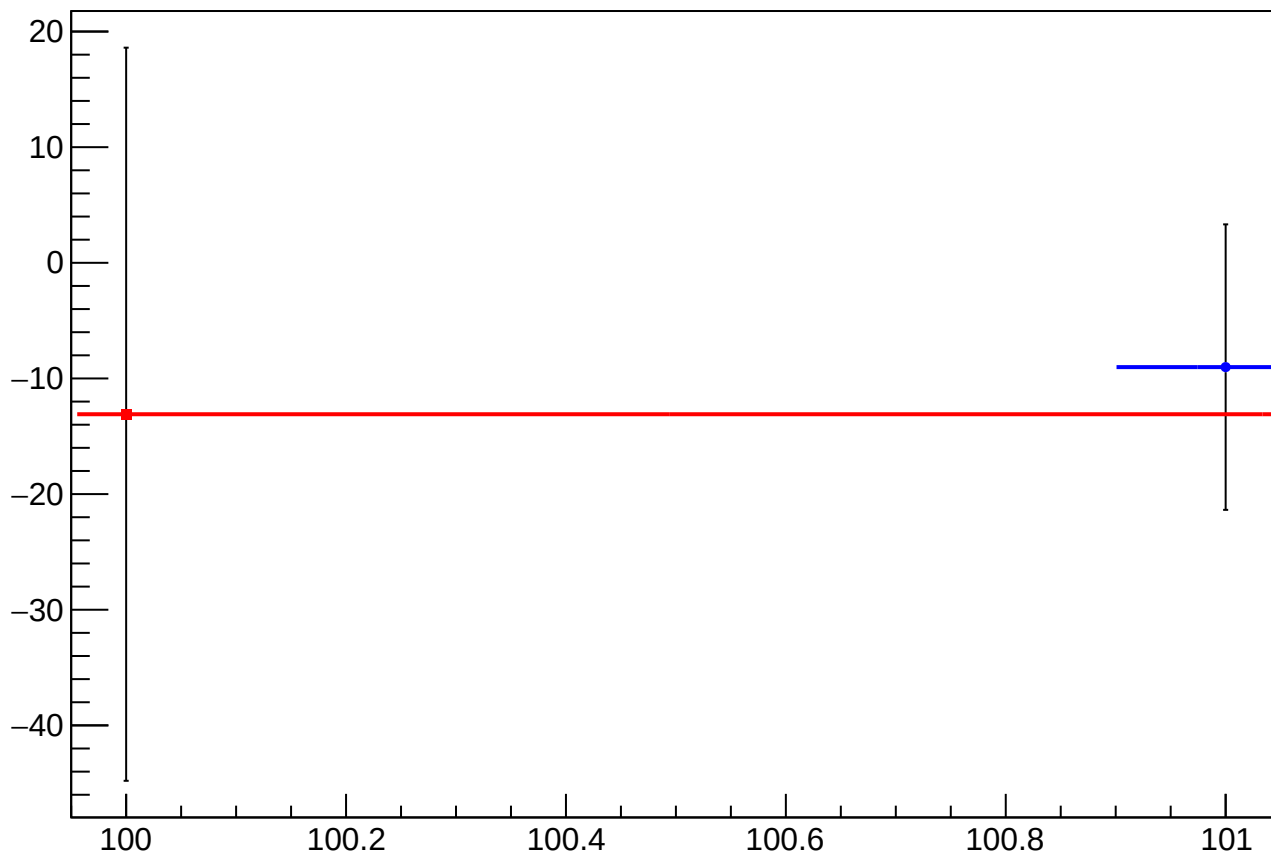
Right: 1224.267+/-1.013  $\chi^2/\text{NDF}$ : 27.7/1

In: 1226.063+/-1.069  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1224.267+/-1.013  $\chi^2/\text{NDF}$ : 27.7/1

# diff\_bpm0l08X\_mean vs Slug, Sign Corrected



Right In: -9.019+/-12.344  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.094+/-31.699  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

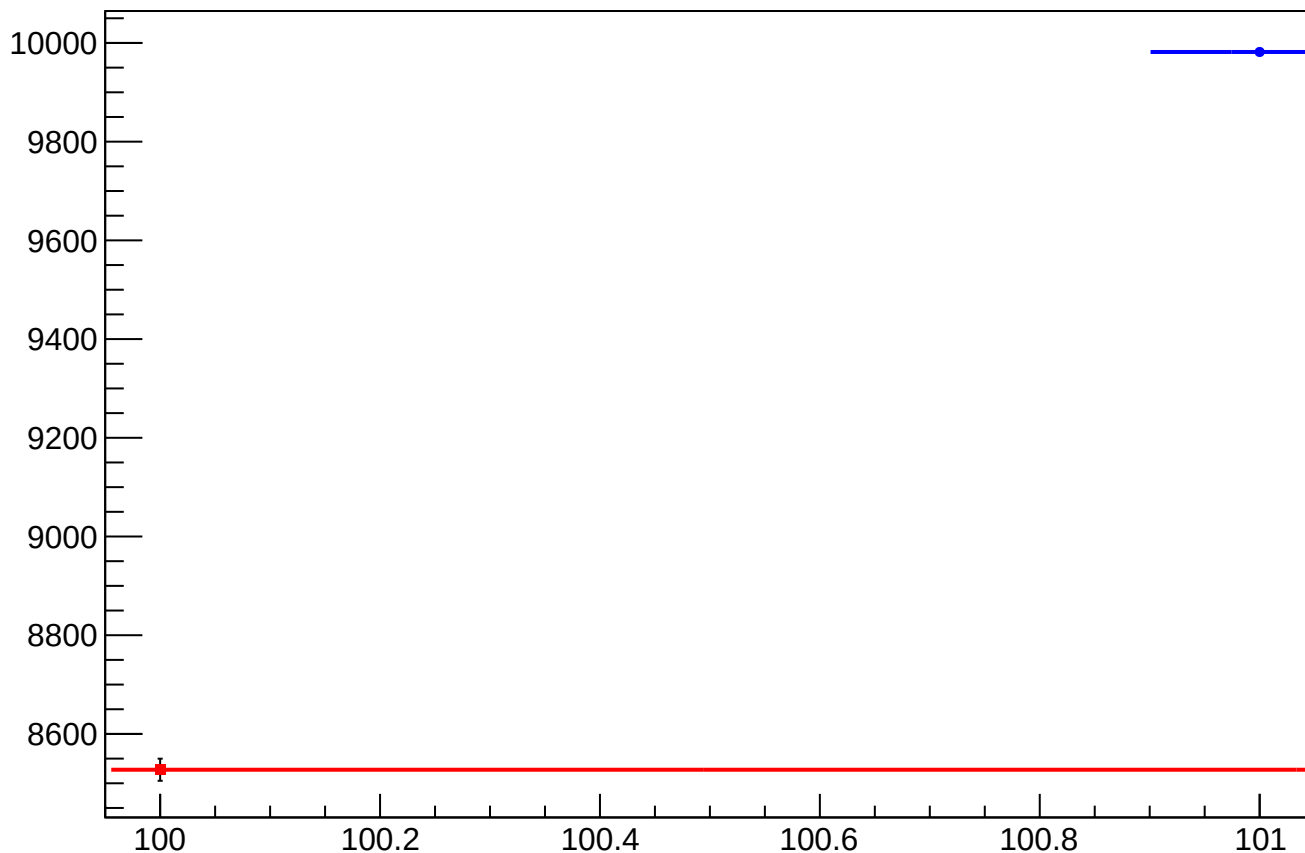
Right: -9.555+/-11.503  $\chi^2/\text{NDF}$ : 0.0/1

In: -9.019+/-12.344  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.555+/-11.503  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_bpm0l08X\_rms vs Slug, Sign Corrected



Right In: 9981.702 $\pm$ 8.729  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8527.450 $\pm$ 22.414  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 9790.206 $\pm$ 8.134  $\chi^2$ /NDF: 3655.2/1

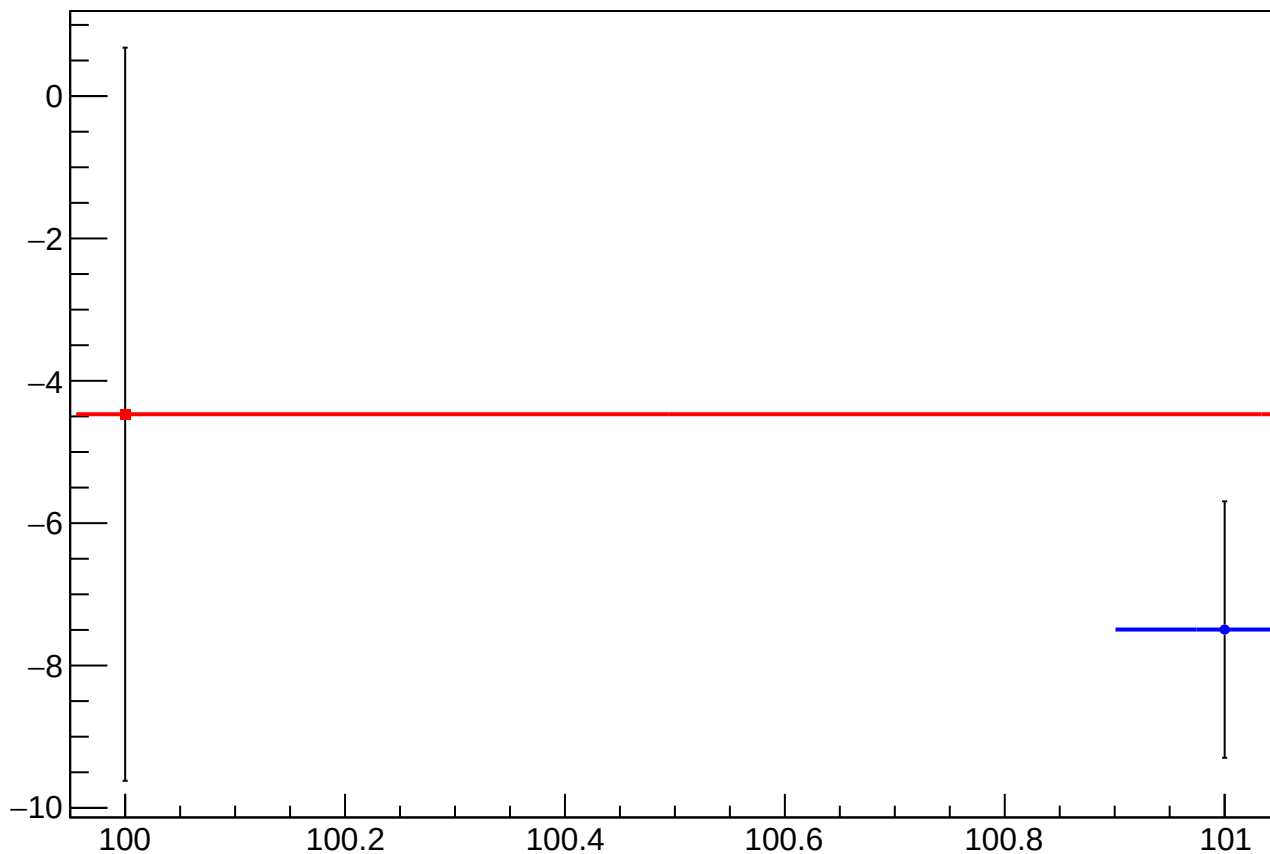
In: 9981.702 $\pm$ 8.729  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9790.206 $\pm$ 8.134  $\chi^2$ /NDF: 3655.2/1



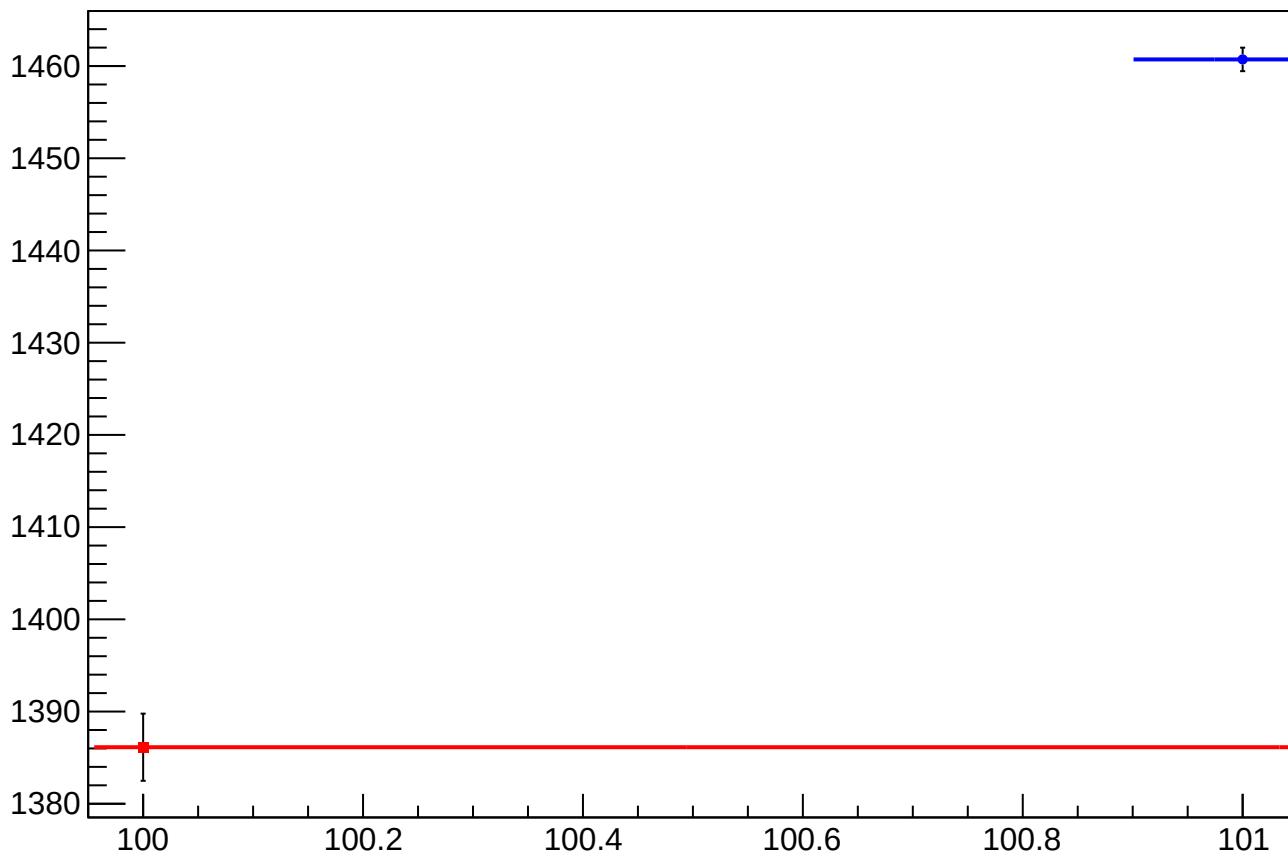
# diff\_bpm0l08Y\_mean vs Slug, Sign Corrected



Right In: -7.495+/-1.801  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: -4.470+/-5.150  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: -7.165+/-1.700  $\chi^2/\text{NDF}$ : 0.3/1  
In: -7.495+/-1.801  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: -7.165+/-1.700  $\chi^2/\text{NDF}$ : 0.3/1

# diff\_bpm0l08Y\_rms vs Slug, Sign Corrected



Right In: 1460.719+/-1.274  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1386.132+/-3.642  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

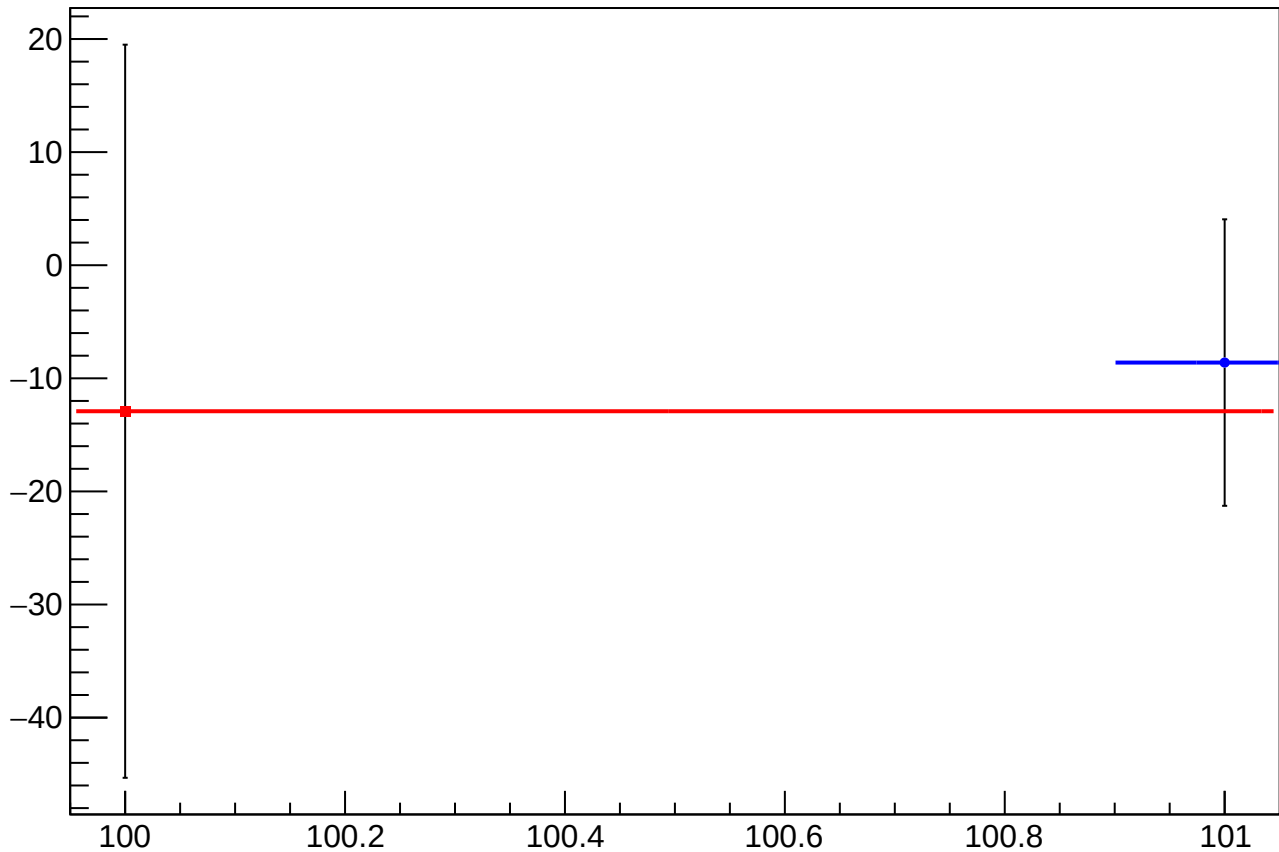
Right: 1452.587+/-1.202  $\chi^2/\text{NDF}$ : 373.8/1

In: 1460.719+/-1.274  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1452.587+/-1.202  $\chi^2/\text{NDF}$ : 373.8/1

# diff\_bpm0l09X\_mean vs Slug, Sign Corrected



Right In: -8.607+/-12.665  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.910+/-32.410  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

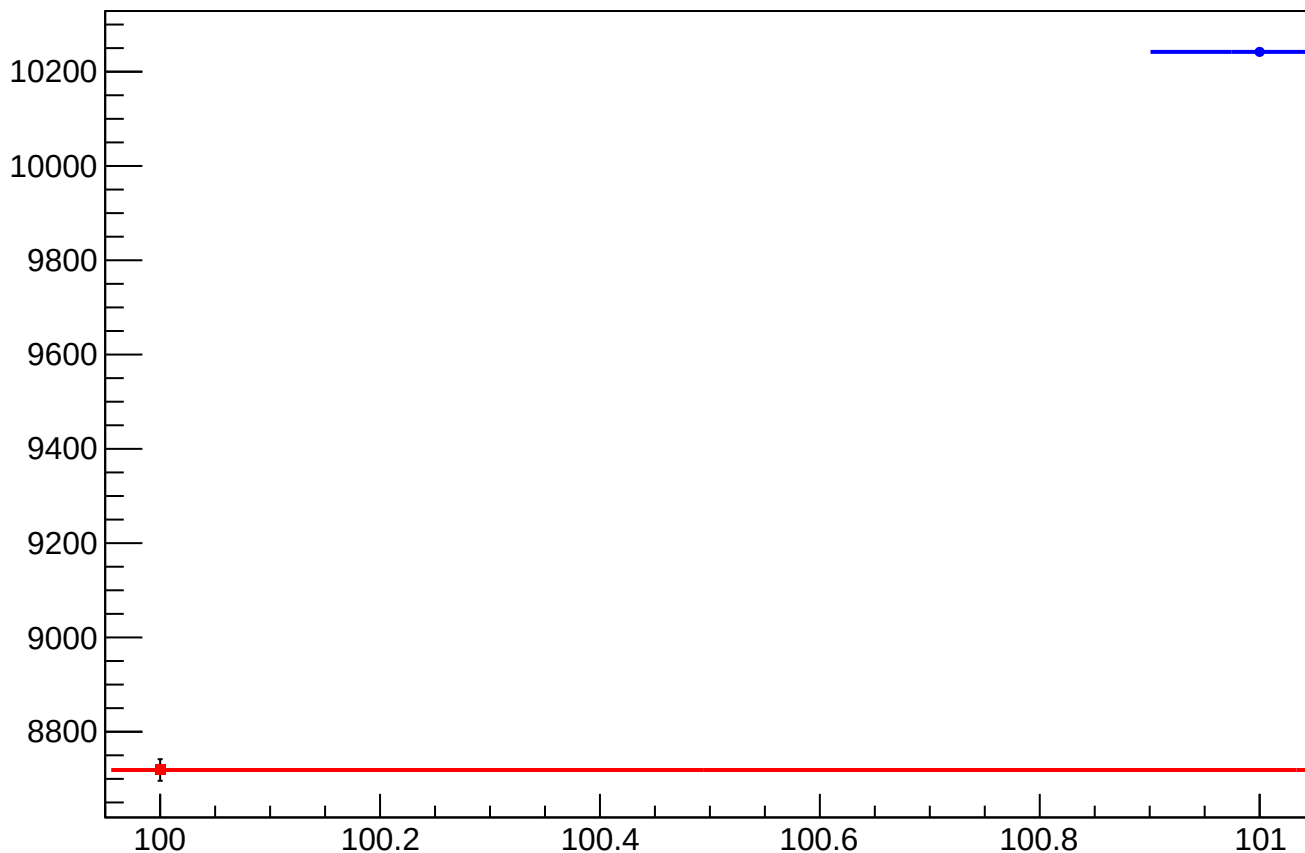
Right: -9.177+/-11.797  $\chi^2/\text{NDF}$ : 0.0/1

In: -8.607+/-12.665  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.177+/-11.797  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_bpm0l09X\_rms vs Slug, Sign Corrected



Right In: 10241.985 $\pm$ 8.956  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8718.851 $\pm$ 22.918  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

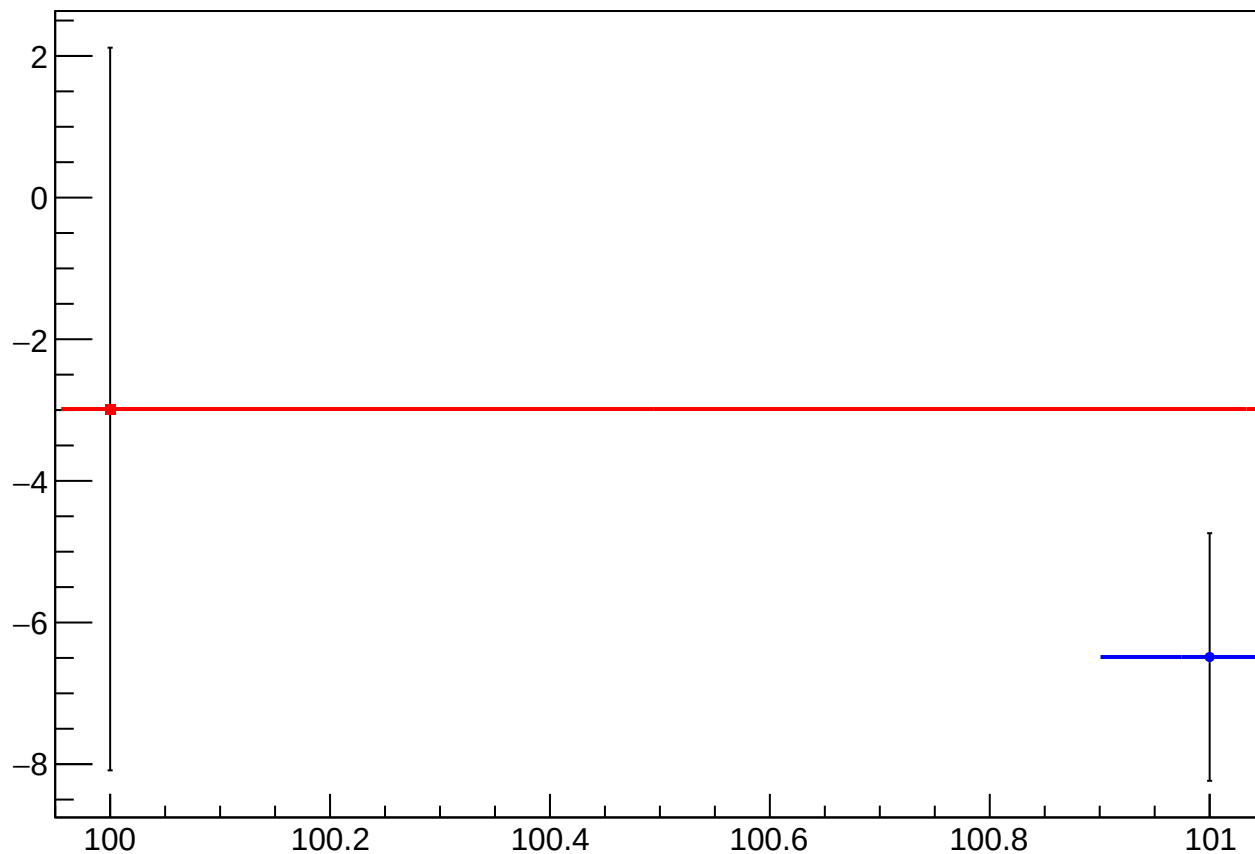
Right: 10040.202 $\pm$ 8.341  $\chi^2/\text{NDF}$ : 3831.9/1

In: 10241.985 $\pm$ 8.956  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10040.202 $\pm$ 8.341  $\chi^2/\text{NDF}$ : 3831.9/1

# diff\_bpm0l09Y\_mean vs Slug, Sign Corrected



Right In: -6.487 $\pm$ 1.748  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.985 $\pm$ 5.102  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

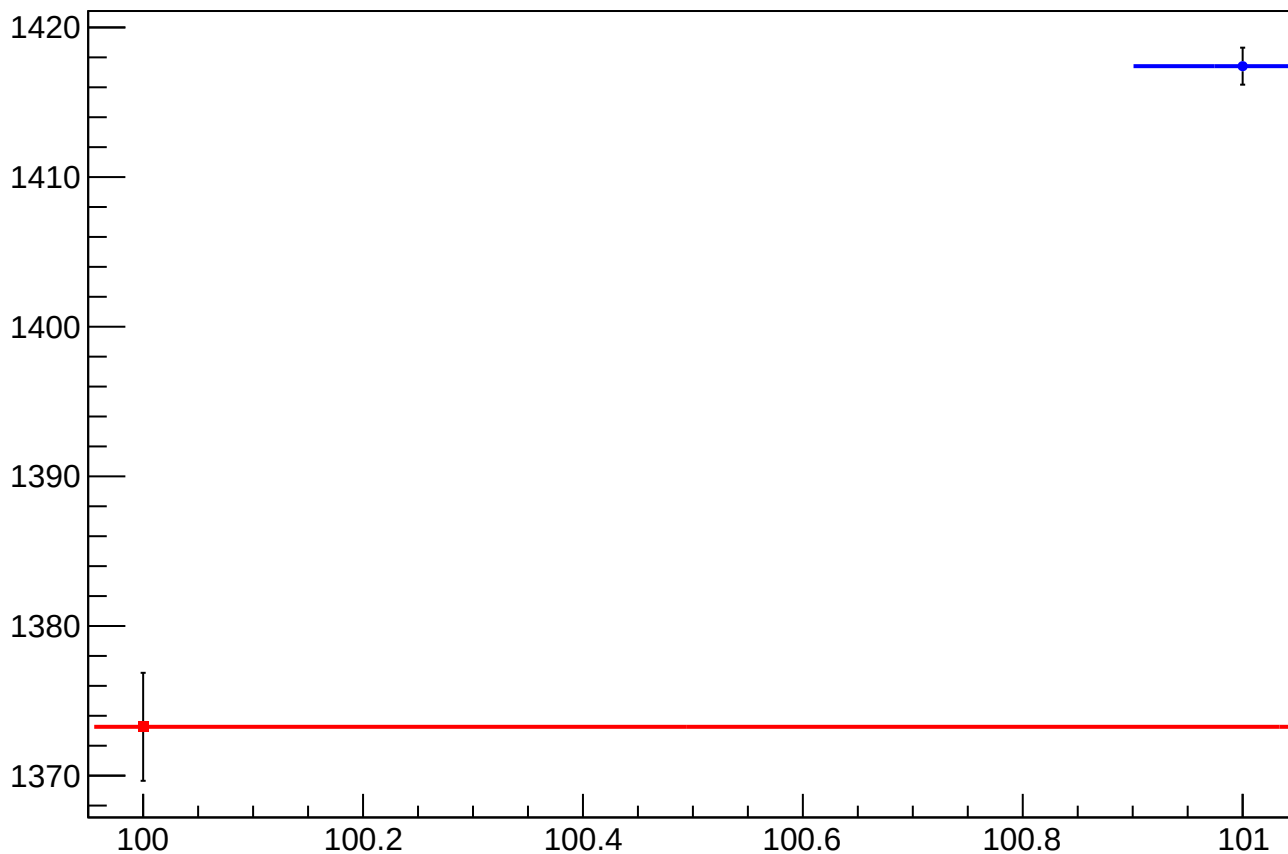
Right: -6.119 $\pm$ 1.654  $\chi^2$ /NDF: 0.4/1

In: -6.487 $\pm$ 1.748  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.119 $\pm$ 1.654  $\chi^2$ /NDF: 0.4/1

# diff\_bpm0l09Y\_rms vs Slug, Sign Corrected



Right In: 1417.412 $\pm$ 1.236  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1373.263 $\pm$ 3.608  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

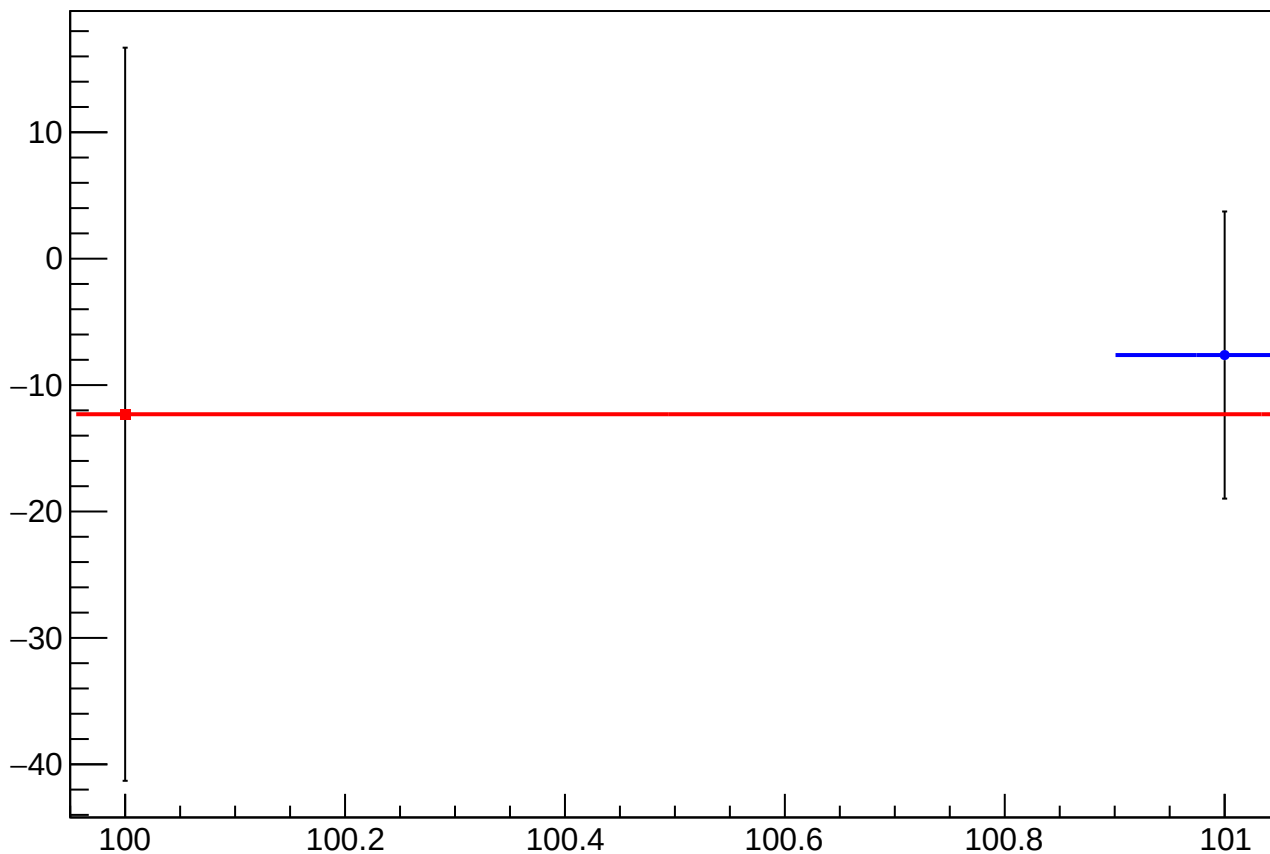
Right: 1412.774 $\pm$ 1.169  $\chi^2$ /NDF: 134.0/1

In: 1417.412 $\pm$ 1.236  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1412.774 $\pm$ 1.169  $\chi^2$ /NDF: 134.0/1

# diff\_bpm0l10X\_mean vs Slug, Sign Corrected



Right In: -7.624+/-11.357  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.306+/-28.998  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

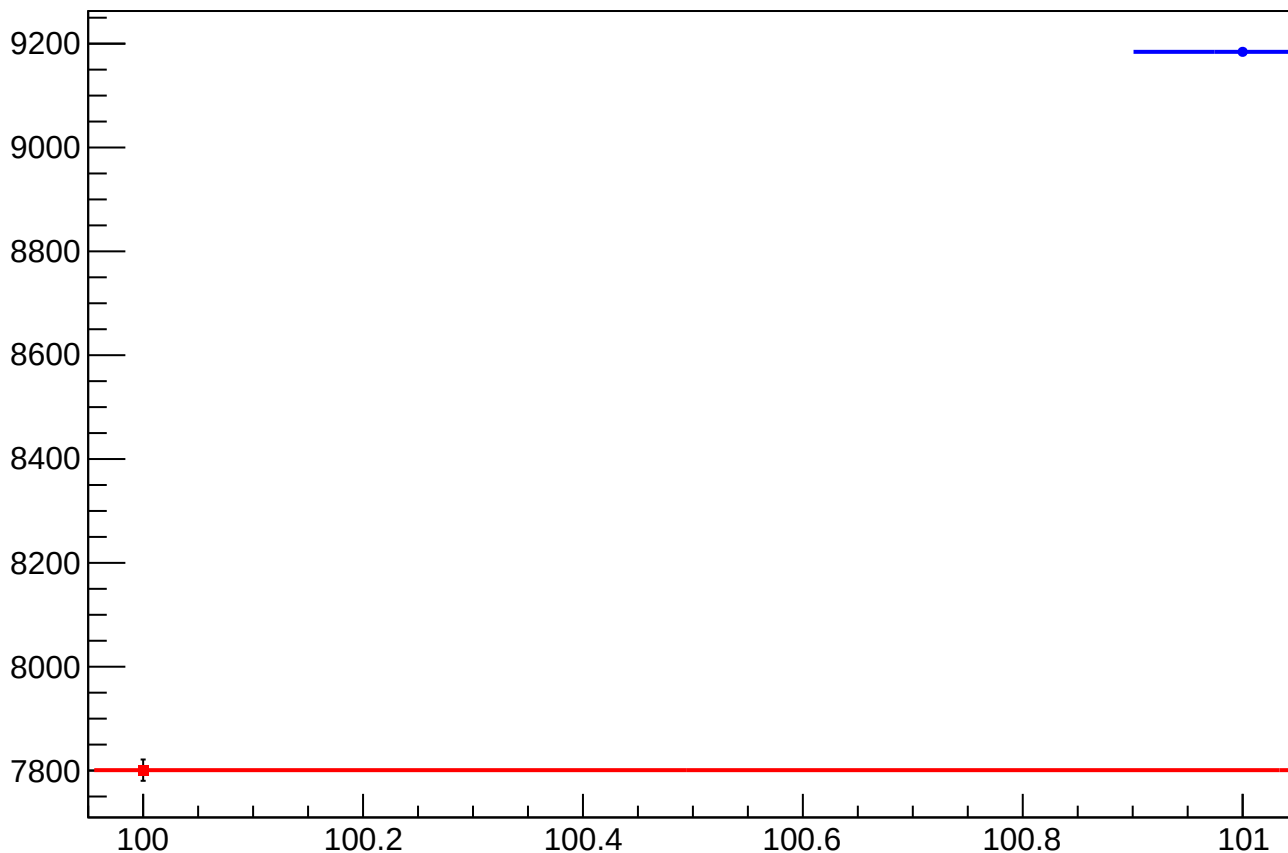
Right: -8.246+/-10.575  $\chi^2/\text{NDF}$ : 0.0/1

In: -7.624+/-11.357  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.246+/-10.575  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_bpm0l10X\_rms vs Slug, Sign Corrected



Right In: 9184.261 $\pm$ 8.031  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7800.775 $\pm$ 20.505  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 9000.274 $\pm$ 7.477  $\chi^2/\text{NDF}$ : 3947.1/1

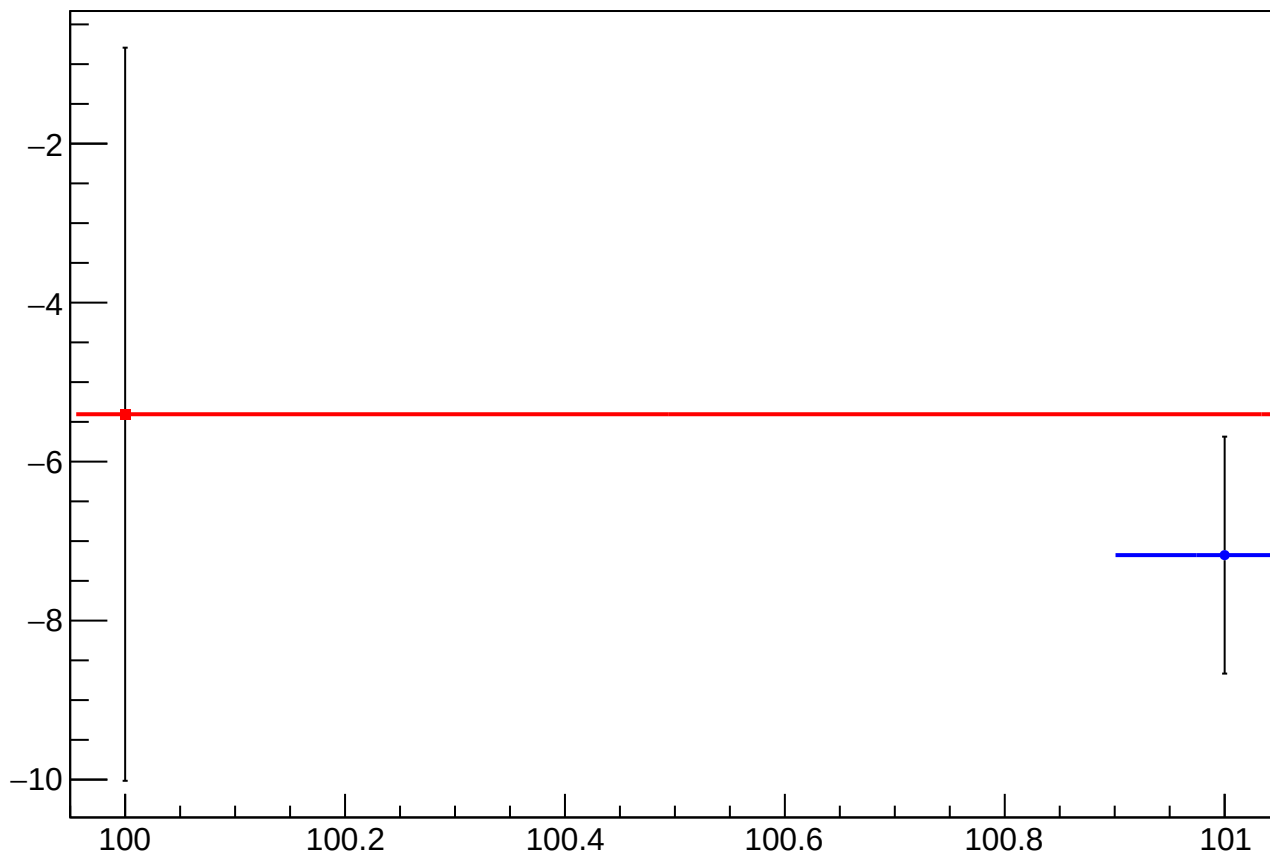
In: 9184.261 $\pm$ 8.031  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9000.274 $\pm$ 7.477  $\chi^2/\text{NDF}$ : 3947.1/1



# diff\_bpm0l10Y\_mean vs Slug, Sign Corrected



Right In: -7.176+/-1.490  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.404+/-4.611  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

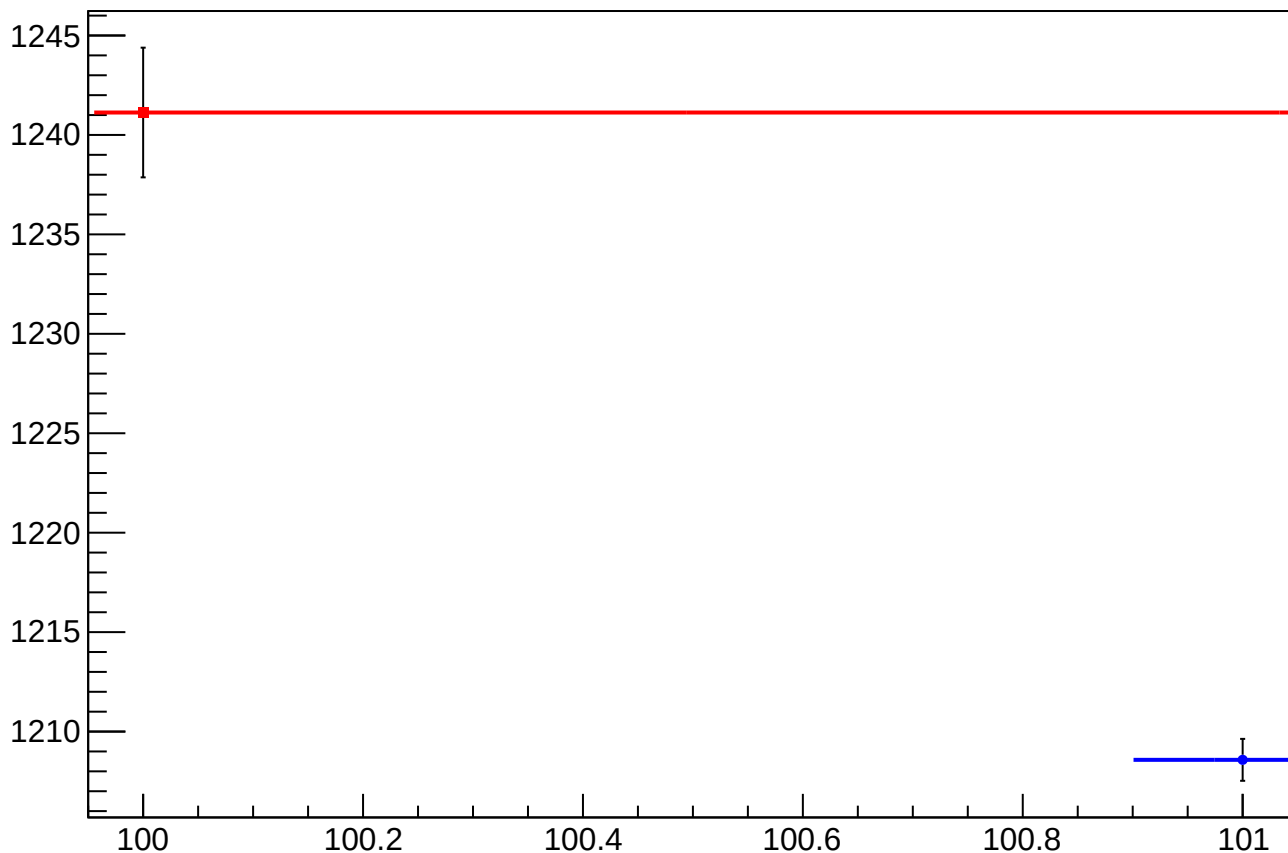
Right: -7.009+/-1.418  $\chi^2/\text{NDF}$ : 0.1/1

In: -7.176+/-1.490  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.009+/-1.418  $\chi^2/\text{NDF}$ : 0.1/1

# diff\_bpm0l10Y\_rms vs Slug, Sign Corrected



Right In: 1208.578 +/- 1.054  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1241.127 +/- 3.261  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

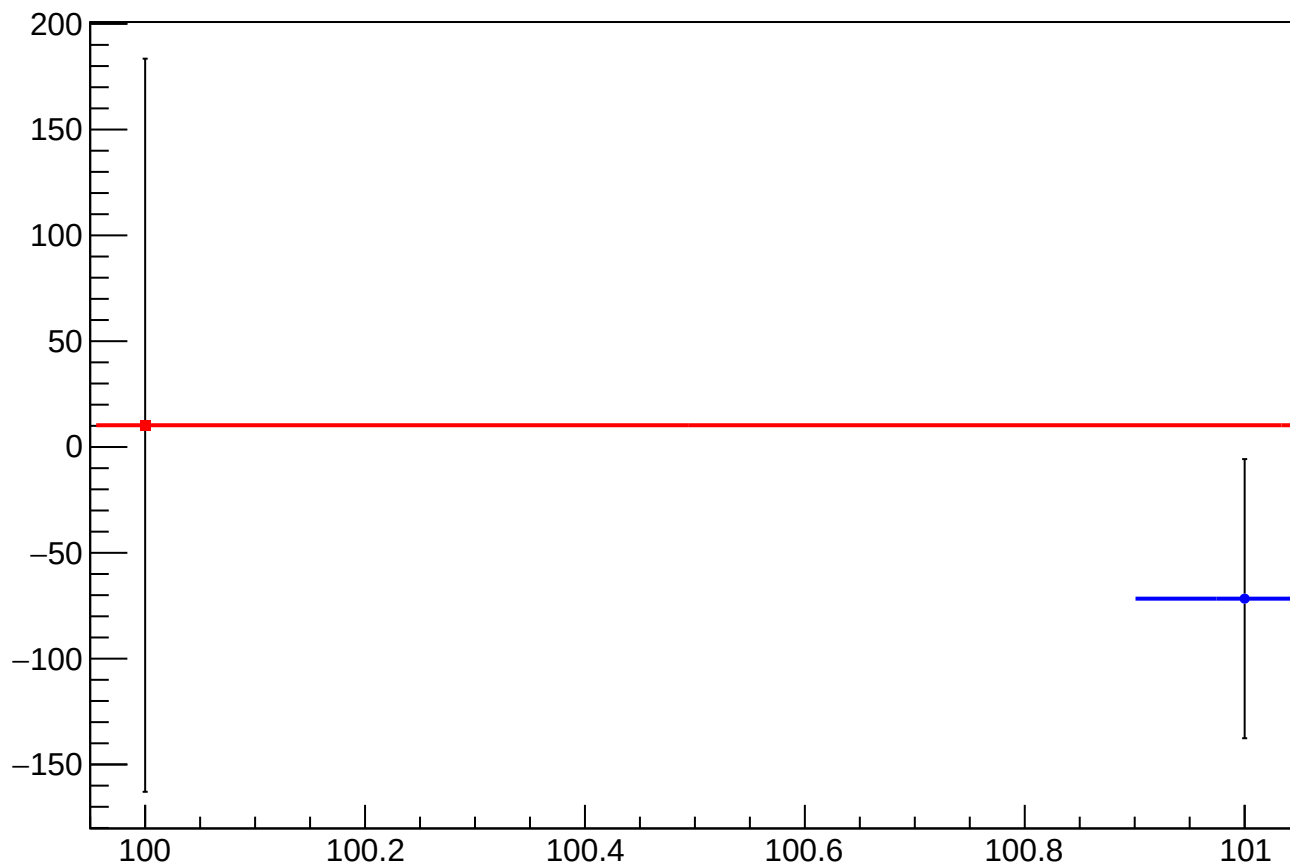
Right: 1211.657 +/- 1.003  $\chi^2/\text{NDF}$ : 90.2/1

In: 1208.578 +/- 1.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1211.657 +/- 1.003  $\chi^2/\text{NDF}$ : 90.2/1

# diff\_bpm0r03X\_mean vs Slug, Sign Corrected



Right In: -71.654+/-65.947  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.288+/-173.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

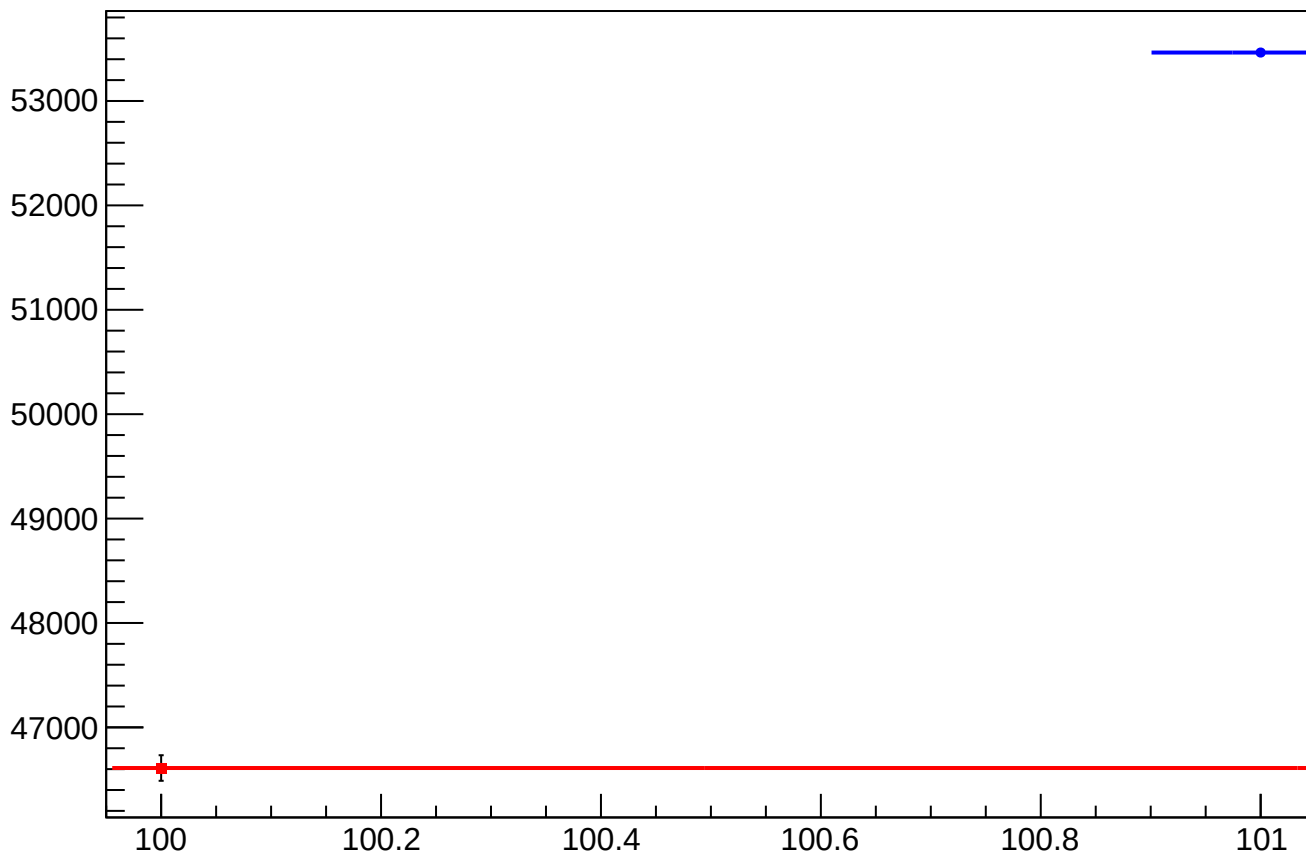
Right: -61.279+/-61.631  $\chi^2$ /NDF: 0.2/1

In: -71.654+/-65.947  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -61.279+/-61.631  $\chi^2$ /NDF: 0.2/1

# diff\_bpm0r03X\_rms vs Slug, Sign Corrected



Right In: 53464.115 $\pm$ 46.632  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46610.654 $\pm$ 122.472  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

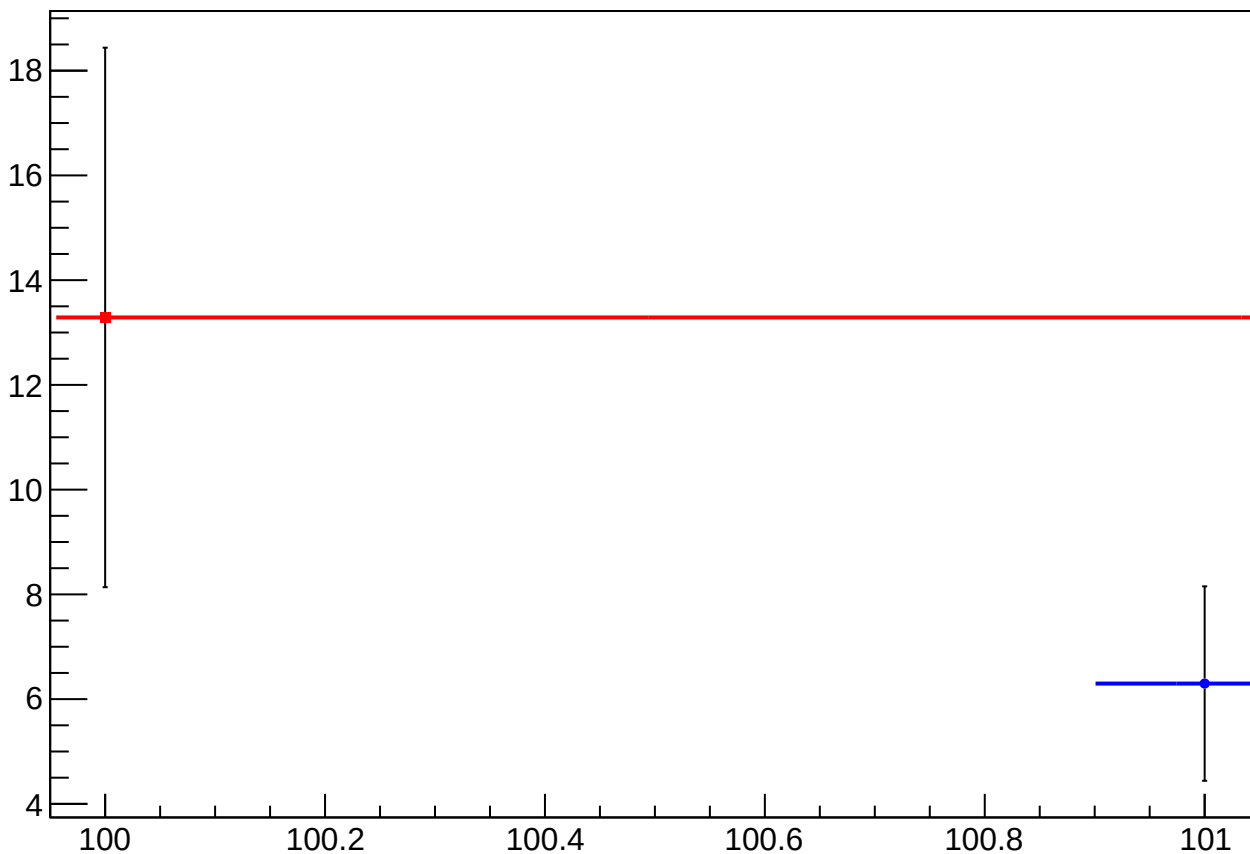
Right: 52596.354 $\pm$ 43.580  $\chi^2/\text{NDF}$ : 2735.0/1

In: 53464.115 $\pm$ 46.632  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 52596.354 $\pm$ 43.580  $\chi^2/\text{NDF}$ : 2735.0/1

# diff\_bpm0r03Y\_mean vs Slug, Sign Corrected



Right In: 6.297 $\pm$ 1.856  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 13.288 $\pm$ 5.151  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

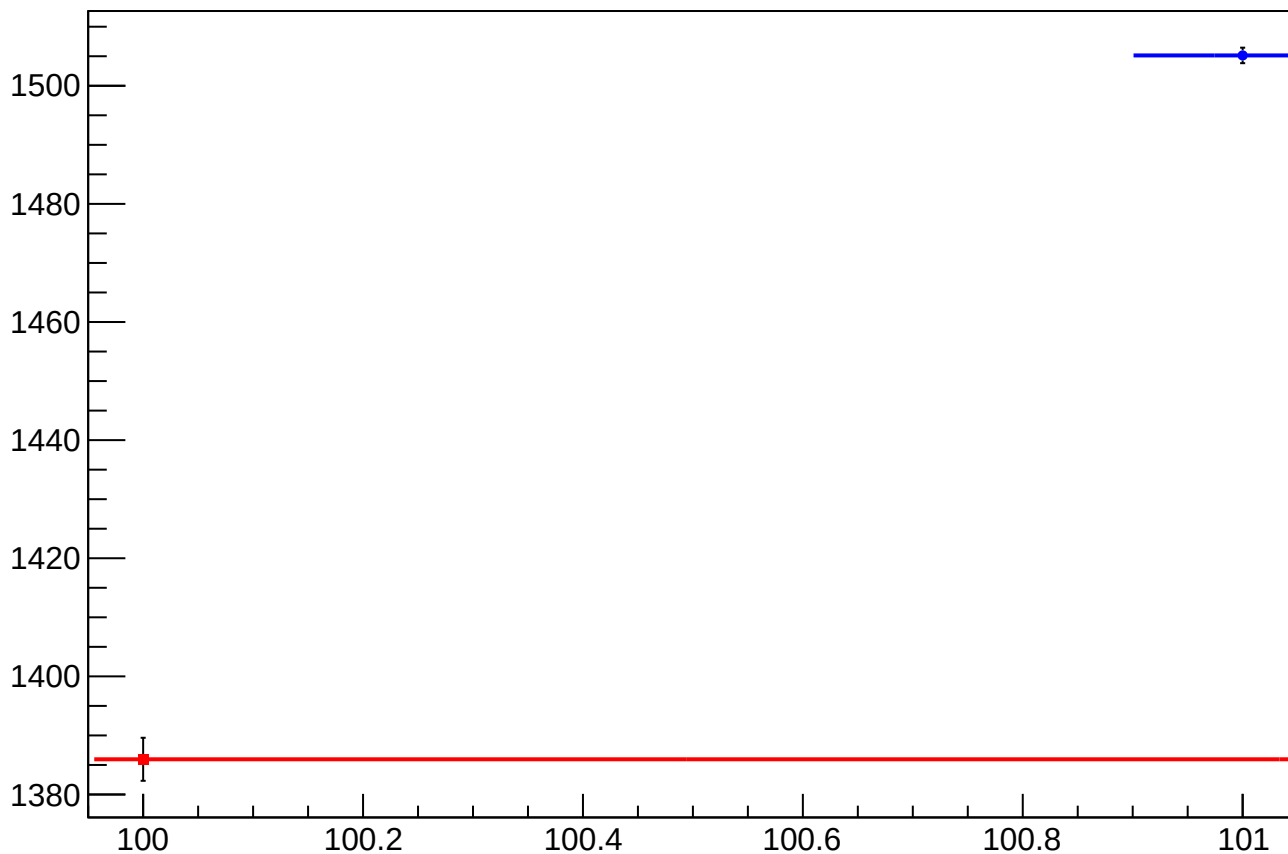
Right: 7.101 $\pm$ 1.746  $\chi^2$ /NDF: 1.6/1

In: 6.297 $\pm$ 1.856  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 7.101 $\pm$ 1.746  $\chi^2$ /NDF: 1.6/1

# diff\_bpm0r03Y\_rms vs Slug, Sign Corrected



Right In: 1505.138 $\pm$ 1.313  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1385.961 $\pm$ 3.642  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

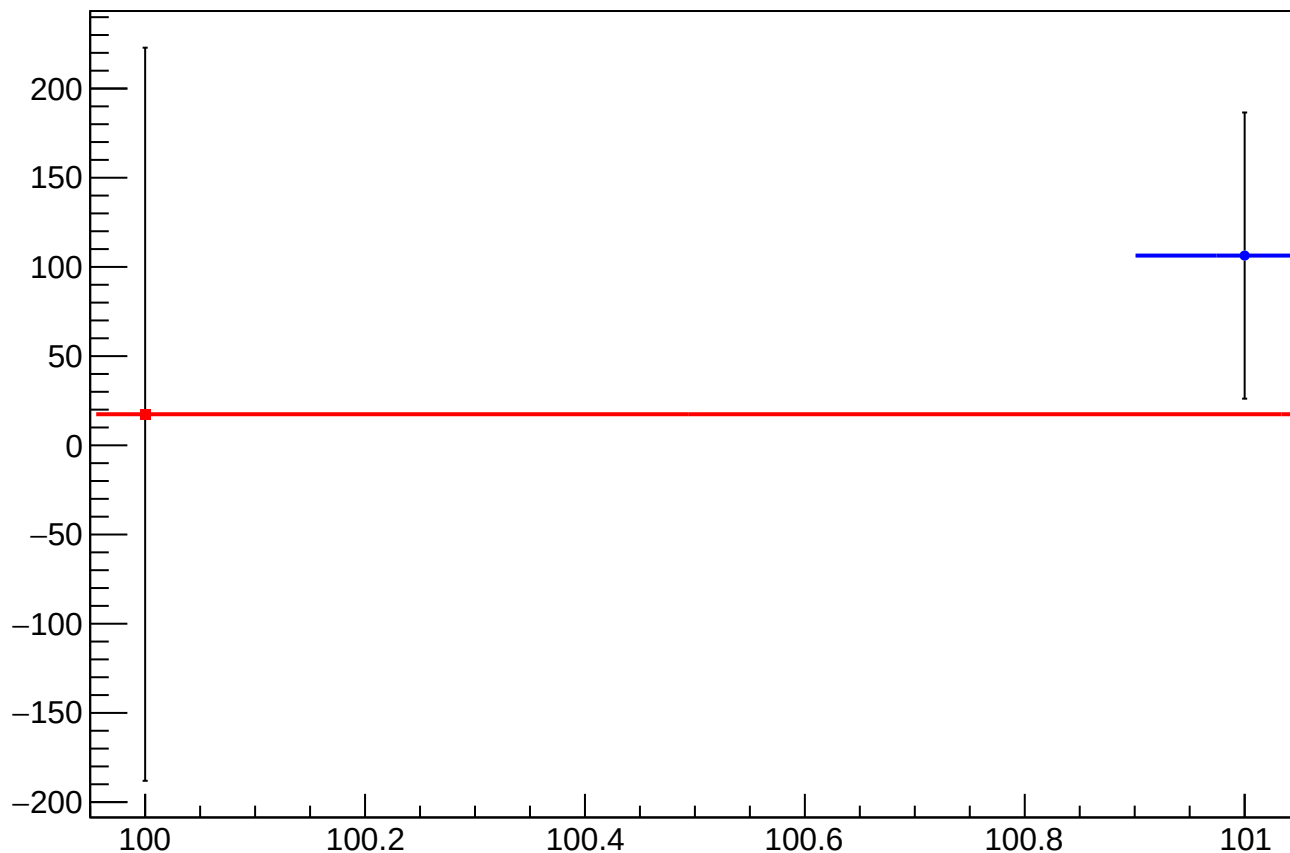
Right: 1491.437 $\pm$ 1.235  $\chi^2$ /NDF: 947.6/1

In: 1505.138 $\pm$ 1.313  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1491.437 $\pm$ 1.235  $\chi^2$ /NDF: 947.6/1

# diff\_bpm0r05X\_mean vs Slug, Sign Corrected



Right In: 106.361 $\pm$ 80.204  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.426 $\pm$ 205.479  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

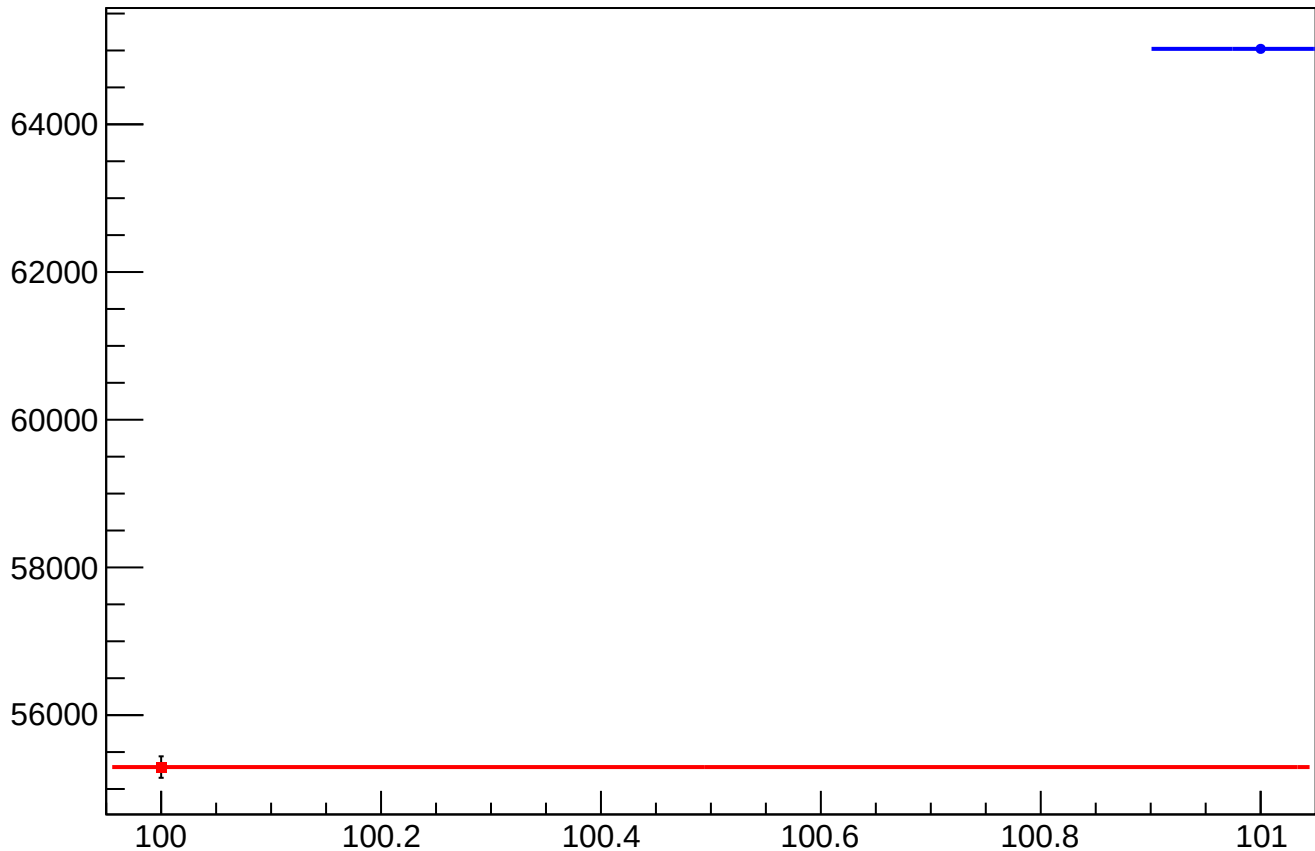
Right: 94.603 $\pm$ 74.714  $\chi^2$ /NDF: 0.2/1

In: 106.361 $\pm$ 80.204  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 94.603 $\pm$ 74.714  $\chi^2$ /NDF: 0.2/1

# diff\_bpm0r05X\_rms vs Slug, Sign Corrected



Right In: 65021.939 $\pm$ 56.713  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: 55296.803 $\pm$ 145.295  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

Right: 63736.155 $\pm$ 52.831  $\chi^2$ /NDF: 3887.8/1

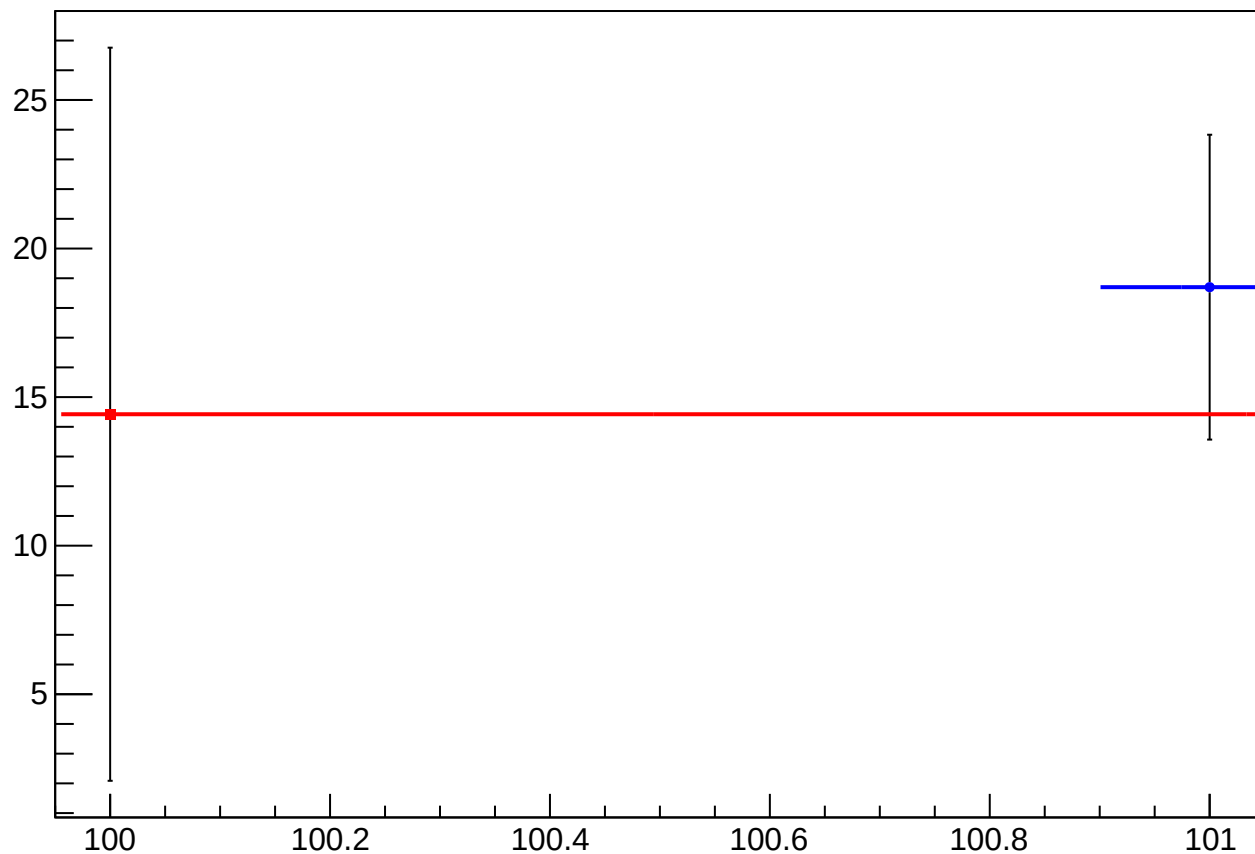
In: 65021.939 $\pm$ 56.713  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

All: 63736.155 $\pm$ 52.831  $\chi^2$ /NDF: 3887.8/1



# diff\_bpm0r05Y\_mean vs Slug, Sign Corrected



Right In: 18.700 $\pm$ 5.130  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.423 $\pm$ 12.337  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

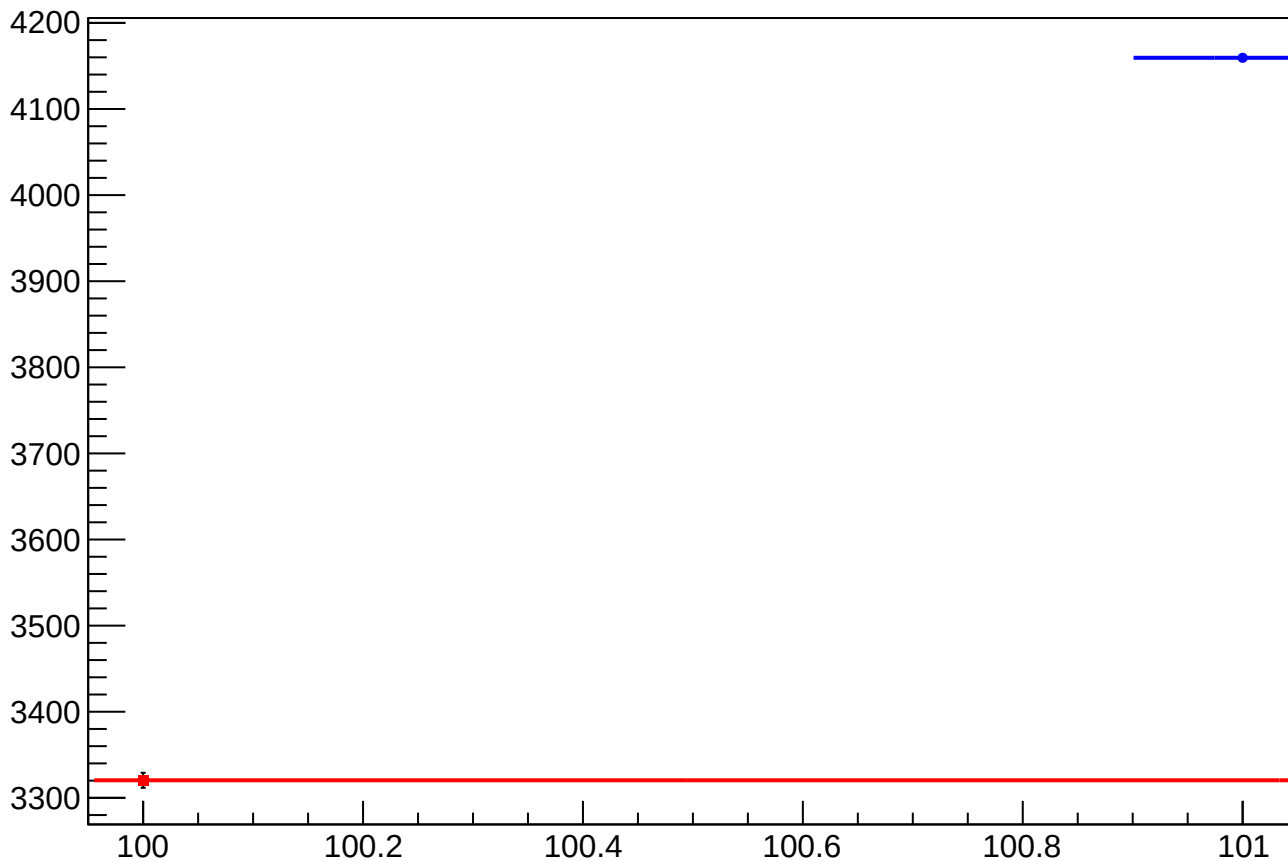
Right: 18.070 $\pm$ 4.737  $\chi^2$ /NDF: 0.1/1

In: 18.700 $\pm$ 5.130  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.070 $\pm$ 4.737  $\chi^2$ /NDF: 0.1/1

# diff\_bpm0r05Y\_rms vs Slug, Sign Corrected



Right In: 4159.477 $\pm$ 3.628  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3320.383 $\pm$ 8.724  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

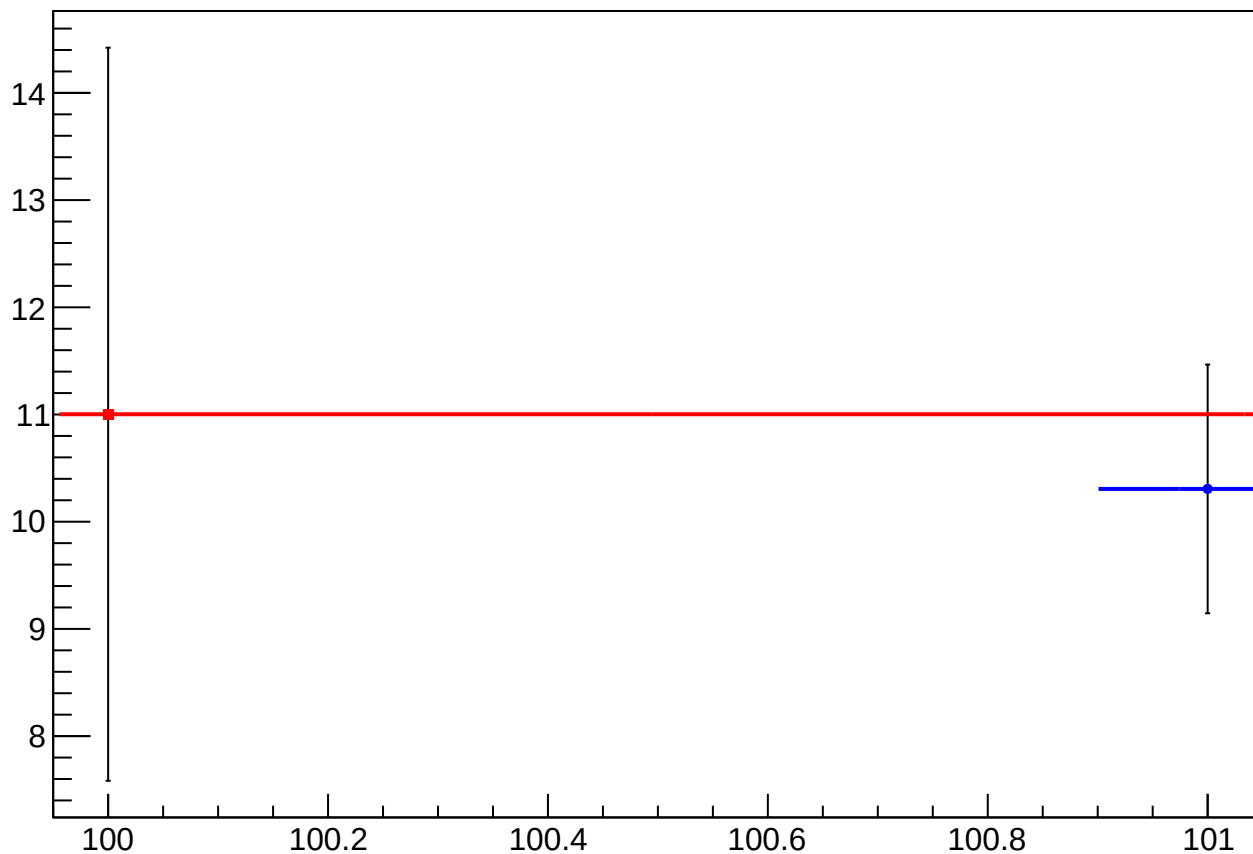
Right: 4035.774 $\pm$ 3.349  $\chi^2$ /NDF: 7888.0/1

In: 4159.477 $\pm$ 3.628  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4035.774 $\pm$ 3.349  $\chi^2$ /NDF: 7888.0/1

# diff\_bpm2i01X\_mean vs Slug, Sign Corrected



Right In: 10.306+/-1.160  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.003+/-3.419  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

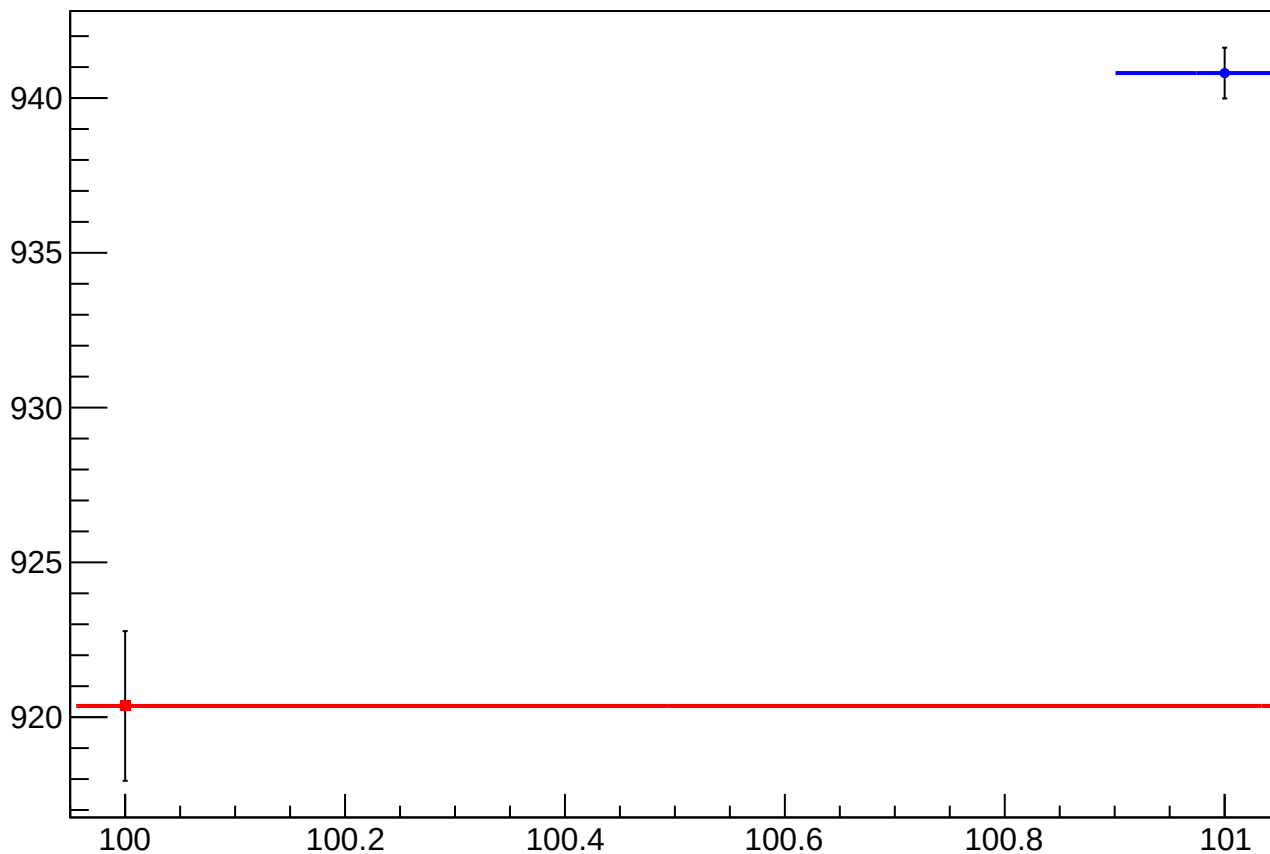
Right: 10.378+/-1.099  $\chi^2/\text{NDF}$ : 0.0/1

In: 10.306+/-1.160  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.378+/-1.099  $\chi^2/\text{NDF}$ : 0.0/1

# diff\_bpm2i01X\_rms vs Slug, Sign Corrected



Right In: 940.807+/-0.820     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Right Out: 920.362+/-2.418     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

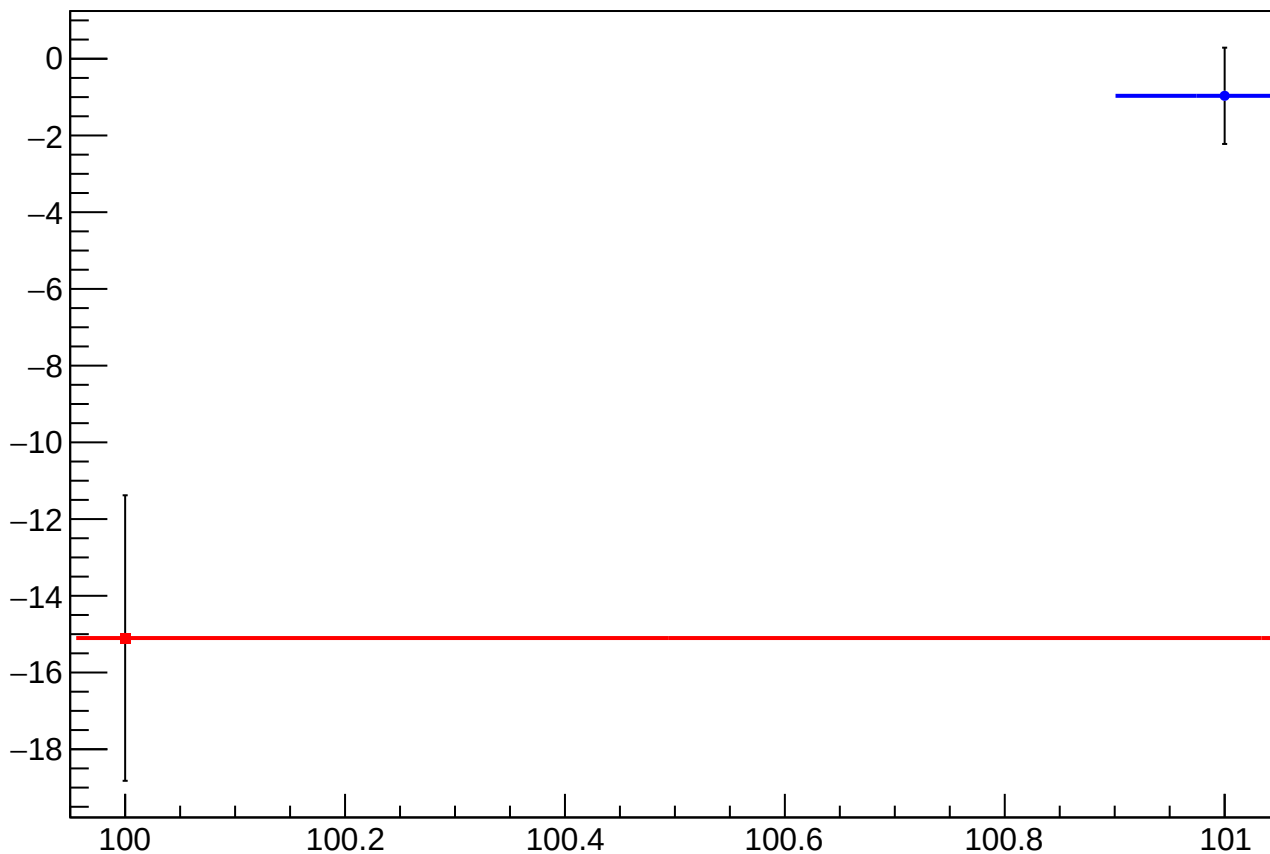
Right: 938.697+/-0.777     $\chi^2$ /NDF: 64.1/1

In: 940.807+/-0.820     $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

All: 938.697+/-0.777     $\chi^2$ /NDF: 64.1/1

# diff\_bpm2i01Y\_mean vs Slug, Sign Corrected



Right In: -0.966+/-1.255  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.101+/-3.721  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

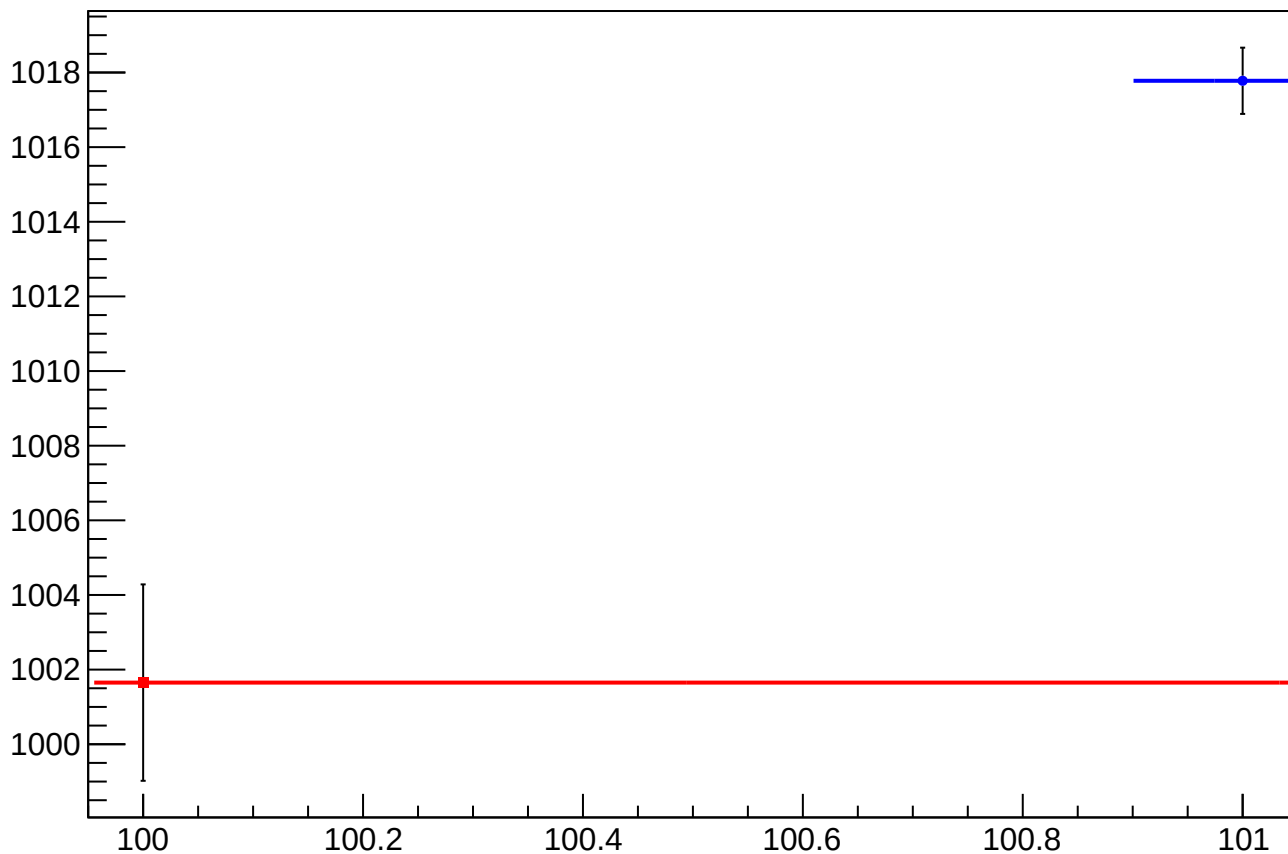
Right: -2.410+/-1.189  $\chi^2/\text{NDF}$ : 13.0/1

In: -0.966+/-1.255  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.410+/-1.189  $\chi^2/\text{NDF}$ : 13.0/1

# diff\_bpm2i01Y\_rms vs Slug, Sign Corrected



Right In: 1017.778 $\pm$ 0.887  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1001.652 $\pm$ 2.631  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

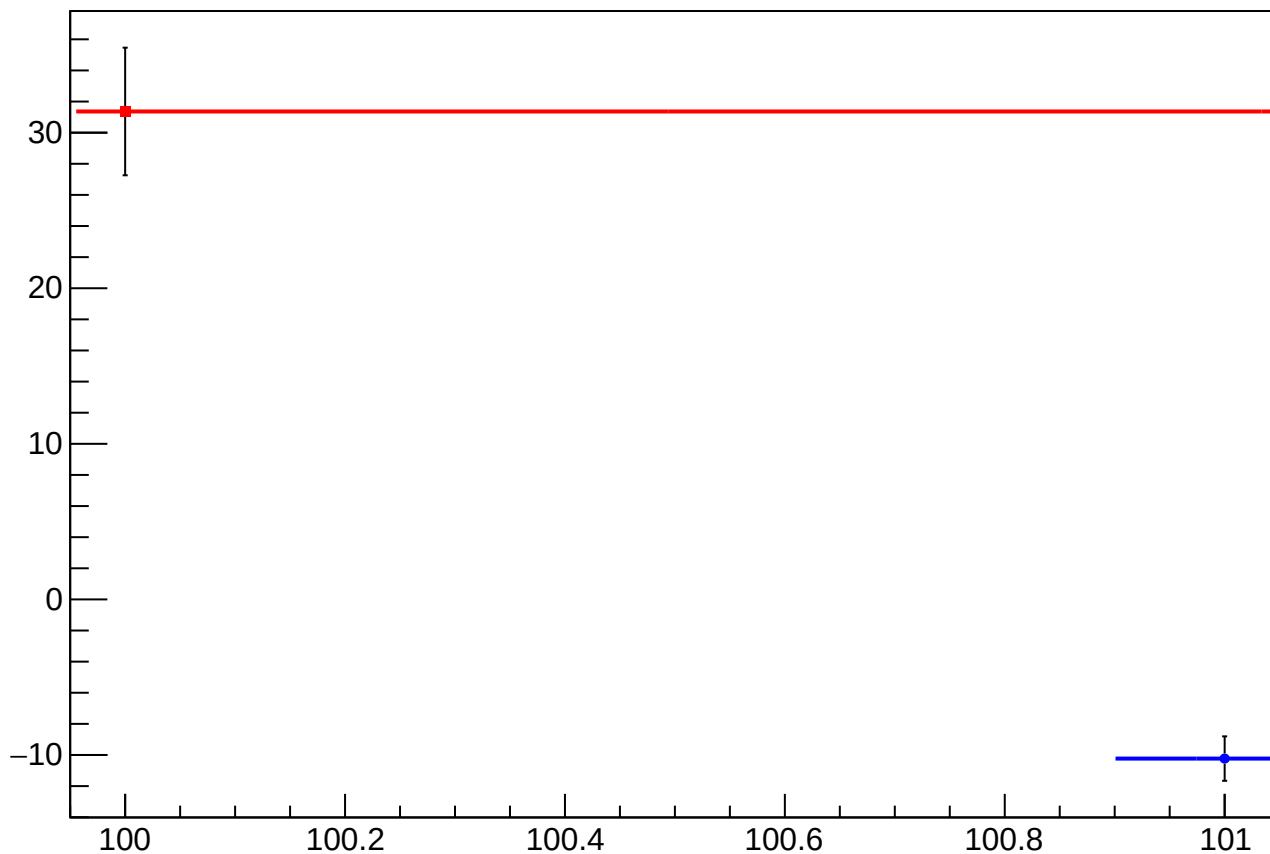
Right: 1016.131 $\pm$ 0.841  $\chi^2$ /NDF: 33.7/1

In: 1017.778 $\pm$ 0.887  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1016.131 $\pm$ 0.841  $\chi^2$ /NDF: 33.7/1

# diff\_bpm2i02X\_mean vs Slug, Sign Corrected



Right In: -10.231 $\pm$ 1.428  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.362 $\pm$ 4.101  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

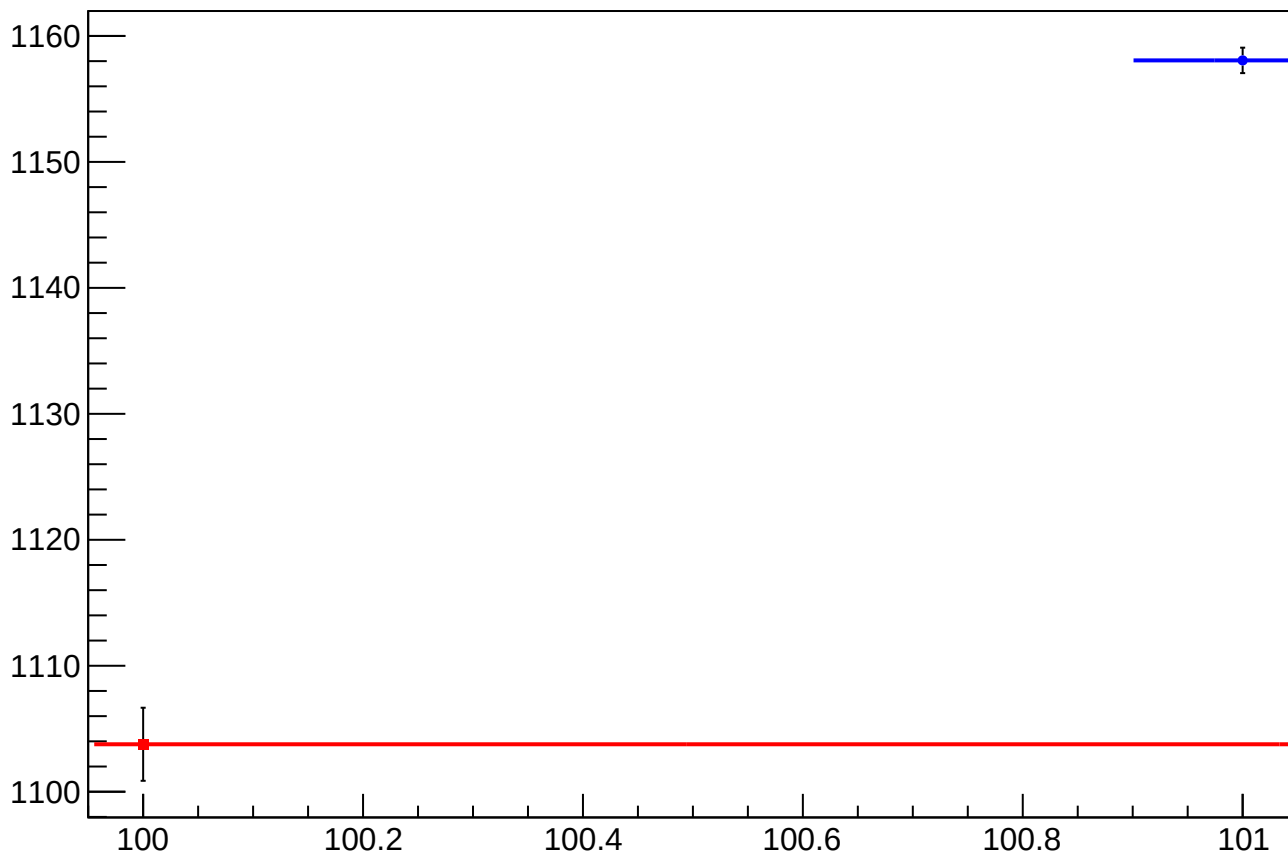
Right: -5.733 $\pm$ 1.349  $\chi^2$ /NDF: 91.7/1

In: -10.231 $\pm$ 1.428  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.733 $\pm$ 1.349  $\chi^2$ /NDF: 91.7/1

# diff\_bpm2i02X\_rms vs Slug, Sign Corrected



Right In: 1158.060 $\pm$ 1.010  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1103.767 $\pm$ 2.900  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1152.188 $\pm$ 0.954  $\chi^2/\text{NDF}$ : 312.6/1

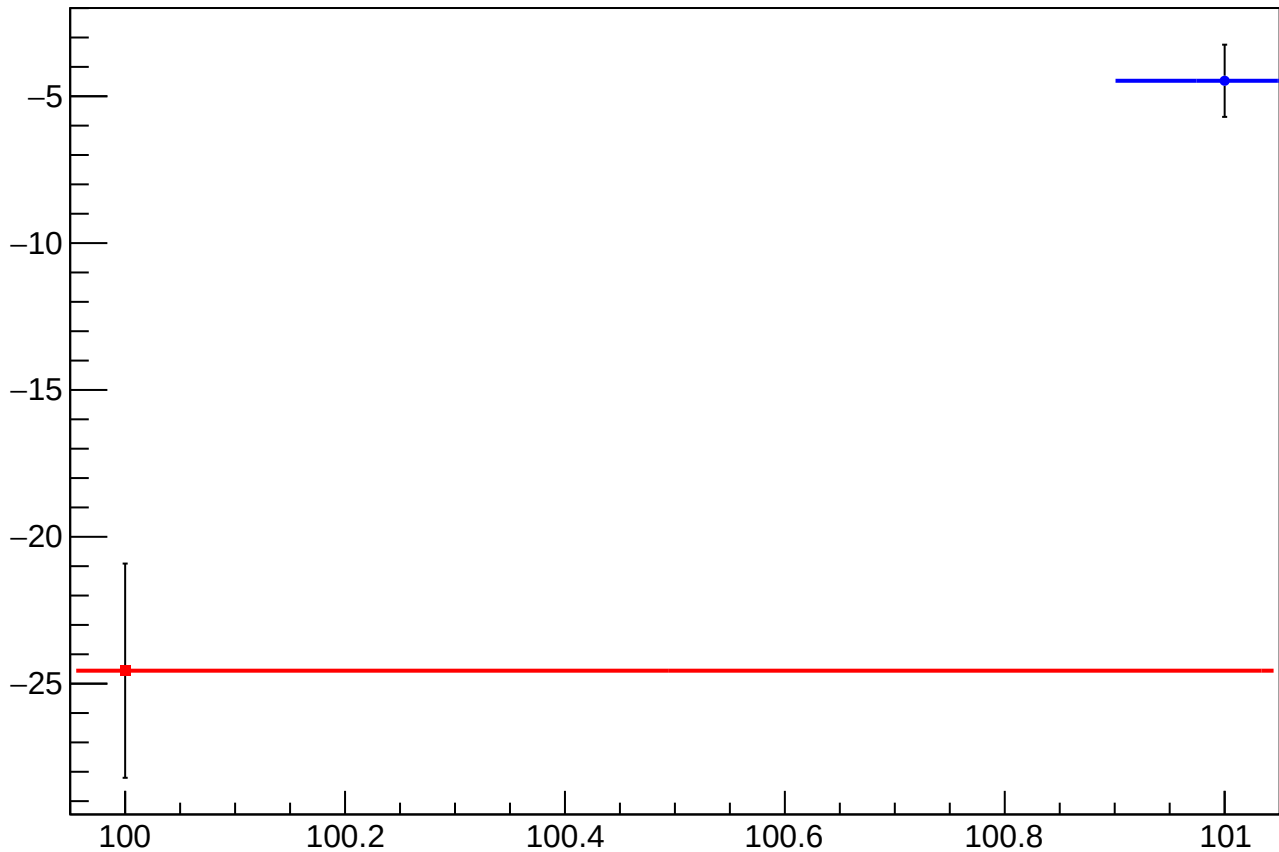
In: 1158.060 $\pm$ 1.010  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1152.188 $\pm$ 0.954  $\chi^2/\text{NDF}$ : 312.6/1



# diff\_bpm2i02Y\_mean vs Slug, Sign Corrected



Right In: -4.473+/-1.229  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -24.558+/-3.647  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

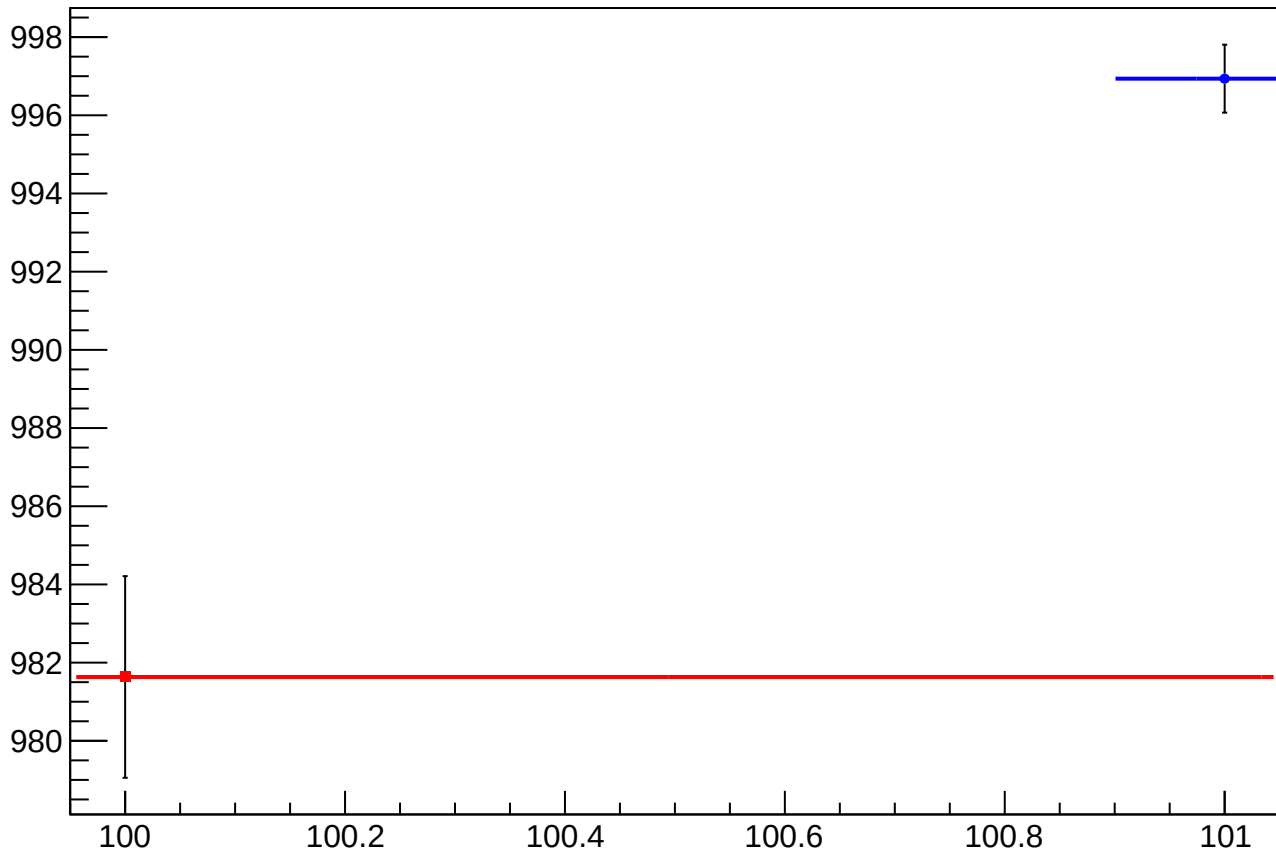
Right: -6.522+/-1.165  $\chi^2$ /NDF: 27.2/1

In: -4.473+/-1.229  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -6.522+/-1.165  $\chi^2$ /NDF: 27.2/1

# diff\_bpm2i02Y\_rms vs Slug, Sign Corrected



Right In: 996.937 $\pm$ 0.869  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 981.633 $\pm$ 2.579  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

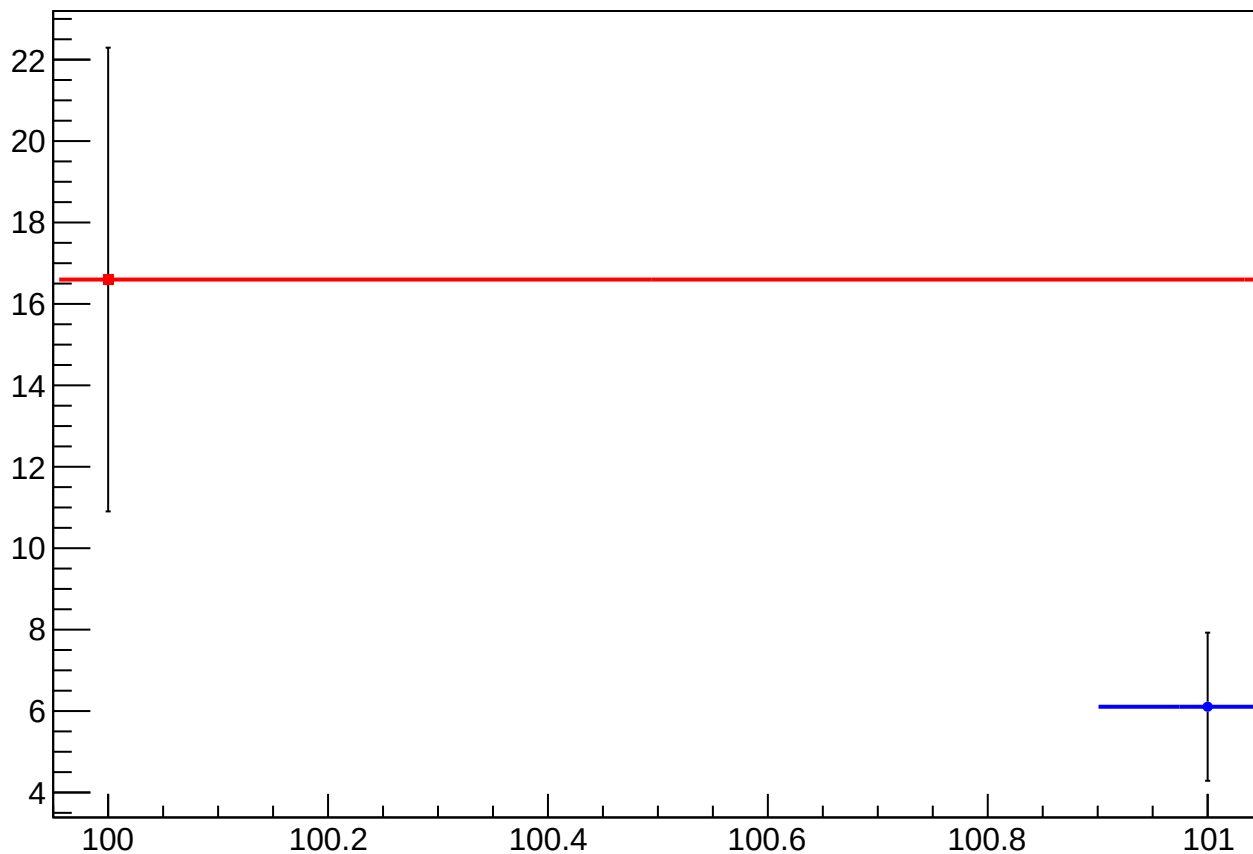
Right: 995.376 $\pm$ 0.824  $\chi^2$ /NDF: 31.6/1

In: 996.937 $\pm$ 0.869  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 995.376 $\pm$ 0.824  $\chi^2$ /NDF: 31.6/1

# diff\_bpm0i02X\_mean vs Slug, Sign Corrected



Right In: 6.106 $\pm$ 1.819  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.599 $\pm$ 5.695  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

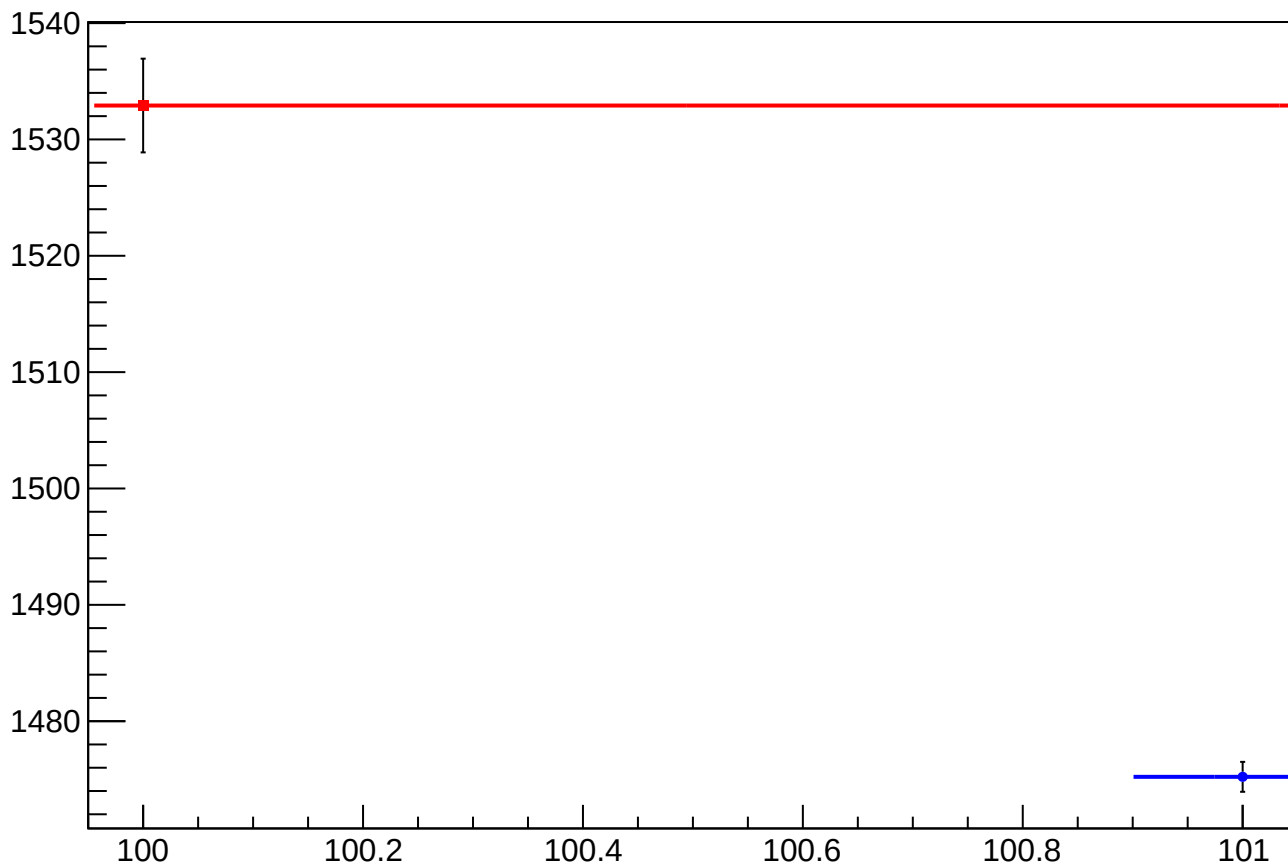
Right: 7.077 $\pm$ 1.733  $\chi^2$ /NDF: 3.1/1

In: 6.106 $\pm$ 1.819  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.077 $\pm$ 1.733  $\chi^2$ /NDF: 3.1/1

# diff\_bpm0i02X\_rms vs Slug, Sign Corrected



Right In: 1475.218 $\pm$ 1.286  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1532.913 $\pm$ 4.027  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

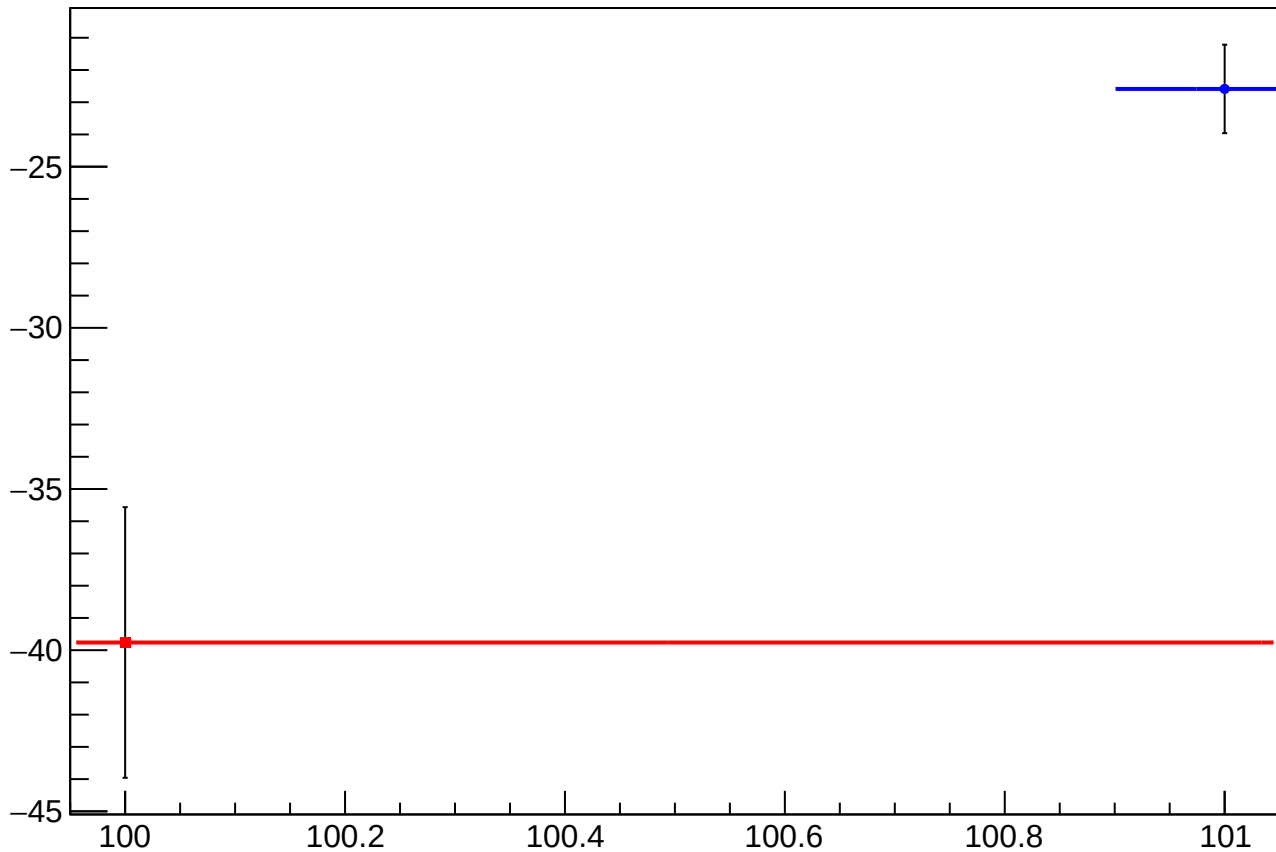
Right: 1480.559 $\pm$ 1.225  $\chi^2/\text{NDF}$ : 186.2/1

In: 1475.218 $\pm$ 1.286  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1480.559 $\pm$ 1.225  $\chi^2/\text{NDF}$ : 186.2/1

# diff\_bpm0i02Y\_mean vs Slug, Sign Corrected



Right In: -22.587 $\pm$ 1.373  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -39.761 $\pm$ 4.198  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

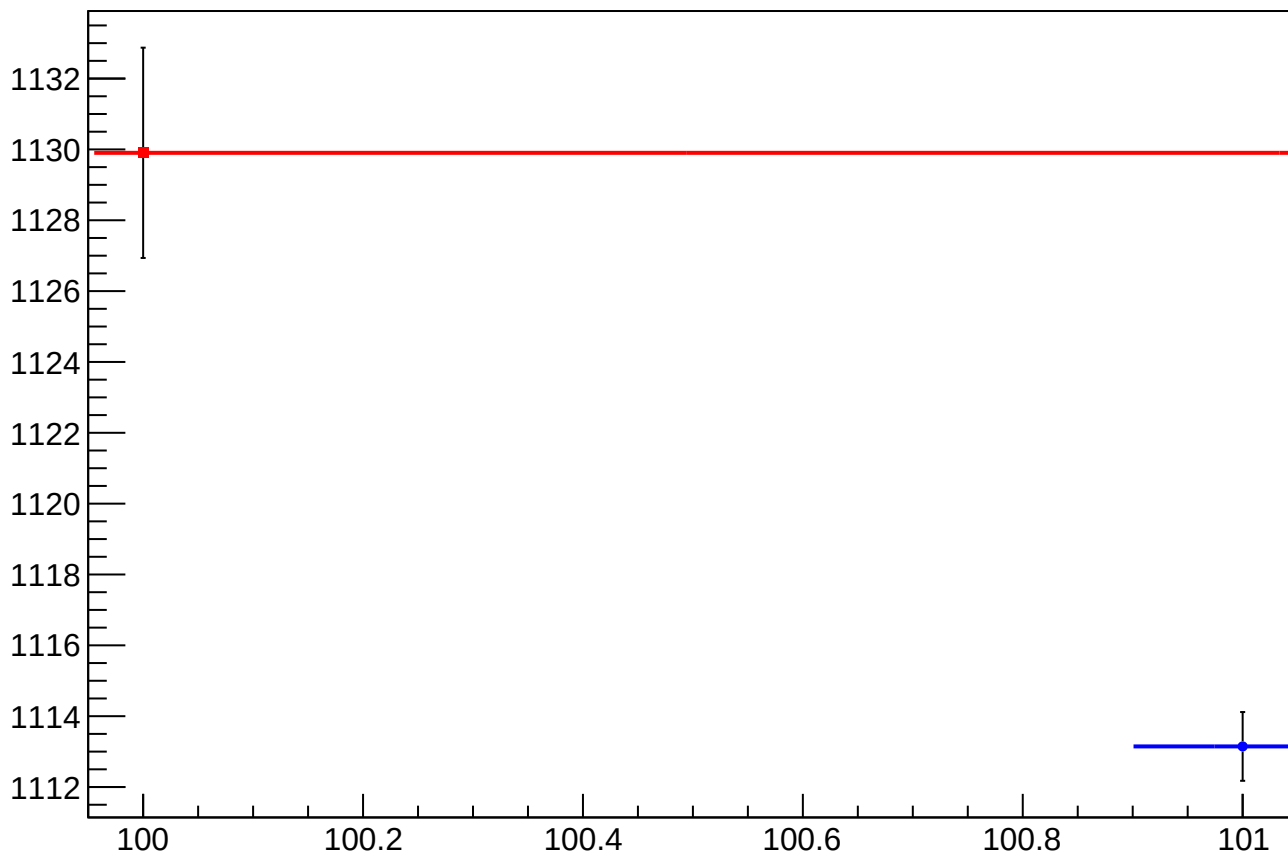
Right: -24.246 $\pm$ 1.305  $\chi^2$ /NDF: 15.1/1

In: -22.587 $\pm$ 1.373  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -24.246 $\pm$ 1.305  $\chi^2$ /NDF: 15.1/1

# diff\_bpm0i02Y\_rms vs Slug, Sign Corrected



Right In: 1113.147 $\pm$ 0.971  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1129.904 $\pm$ 2.968  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

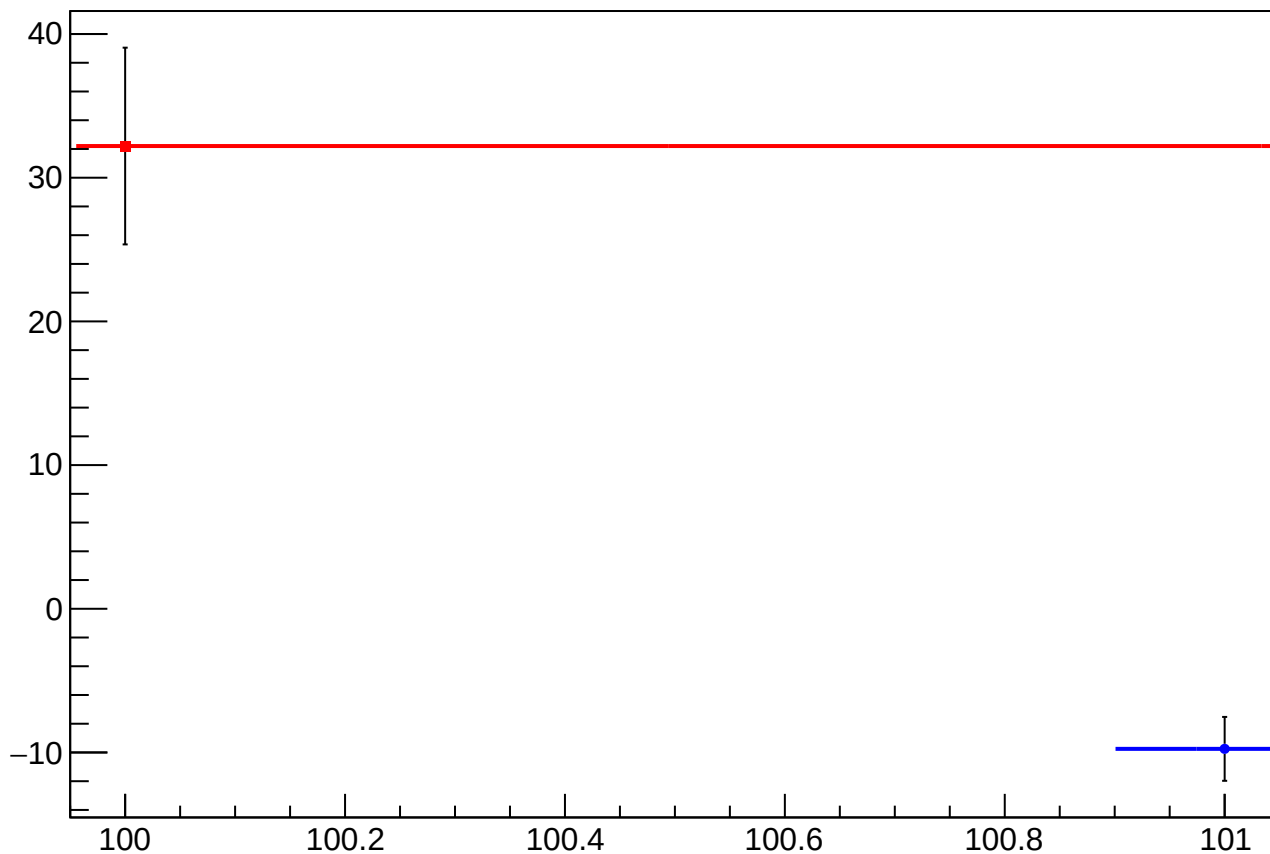
Right: 1114.765 $\pm$ 0.923  $\chi^2$ /NDF: 28.8/1

In: 1113.147 $\pm$ 0.971  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1114.765 $\pm$ 0.923  $\chi^2$ /NDF: 28.8/1

# diff\_bpm0i02aX\_mean vs Slug, Sign Corrected



Right In: -9.749+/-2.223  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.204+/-6.846  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

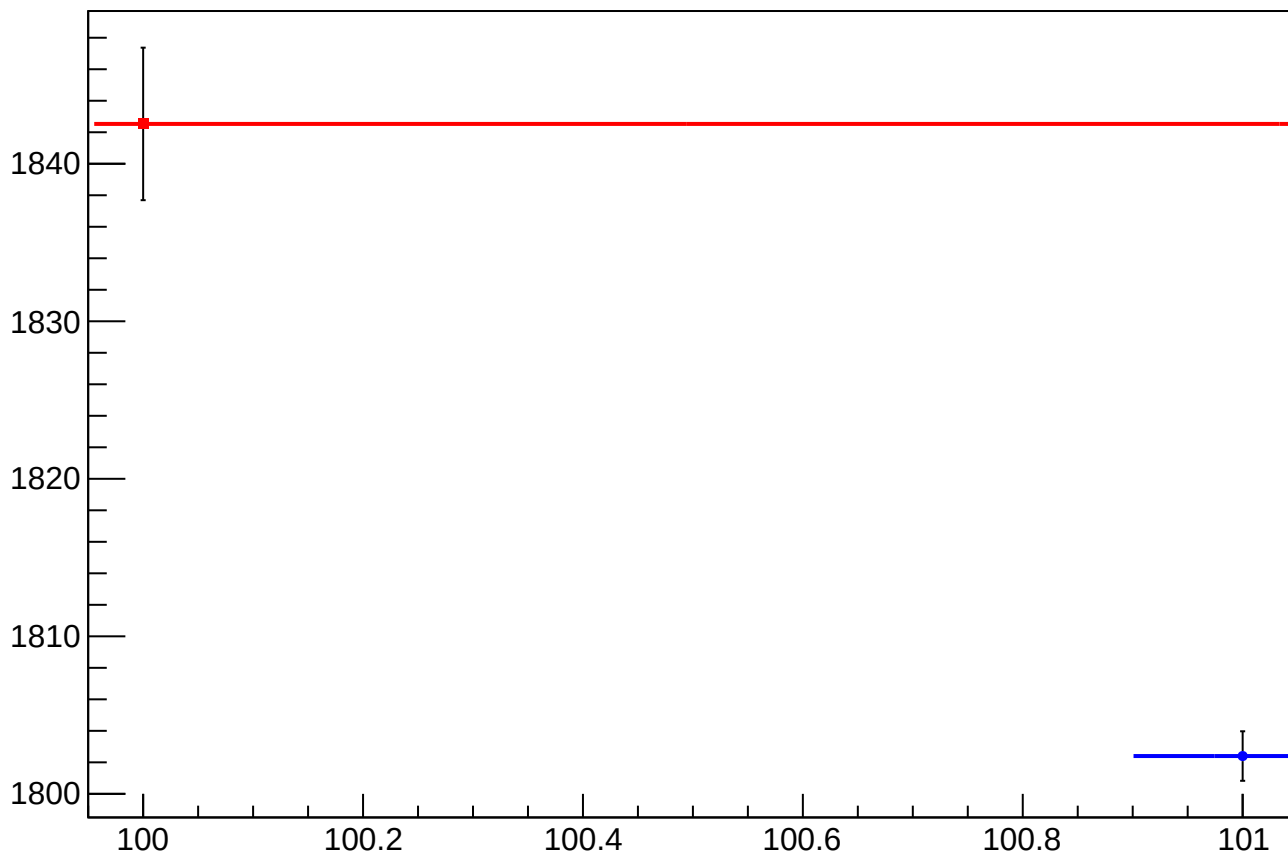
Right: -5.748+/-2.114  $\chi^2/\text{NDF}$ : 34.0/1

In: -9.749+/-2.223  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.748+/-2.114  $\chi^2/\text{NDF}$ : 34.0/1

# diff\_bpm0i02aX\_rms vs Slug, Sign Corrected



Right In: 1802.400 $\pm$ 1.572  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1842.529 $\pm$ 4.841  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 1806.227 $\pm$ 1.495  $\chi^2/\text{NDF}$ : 62.2/1

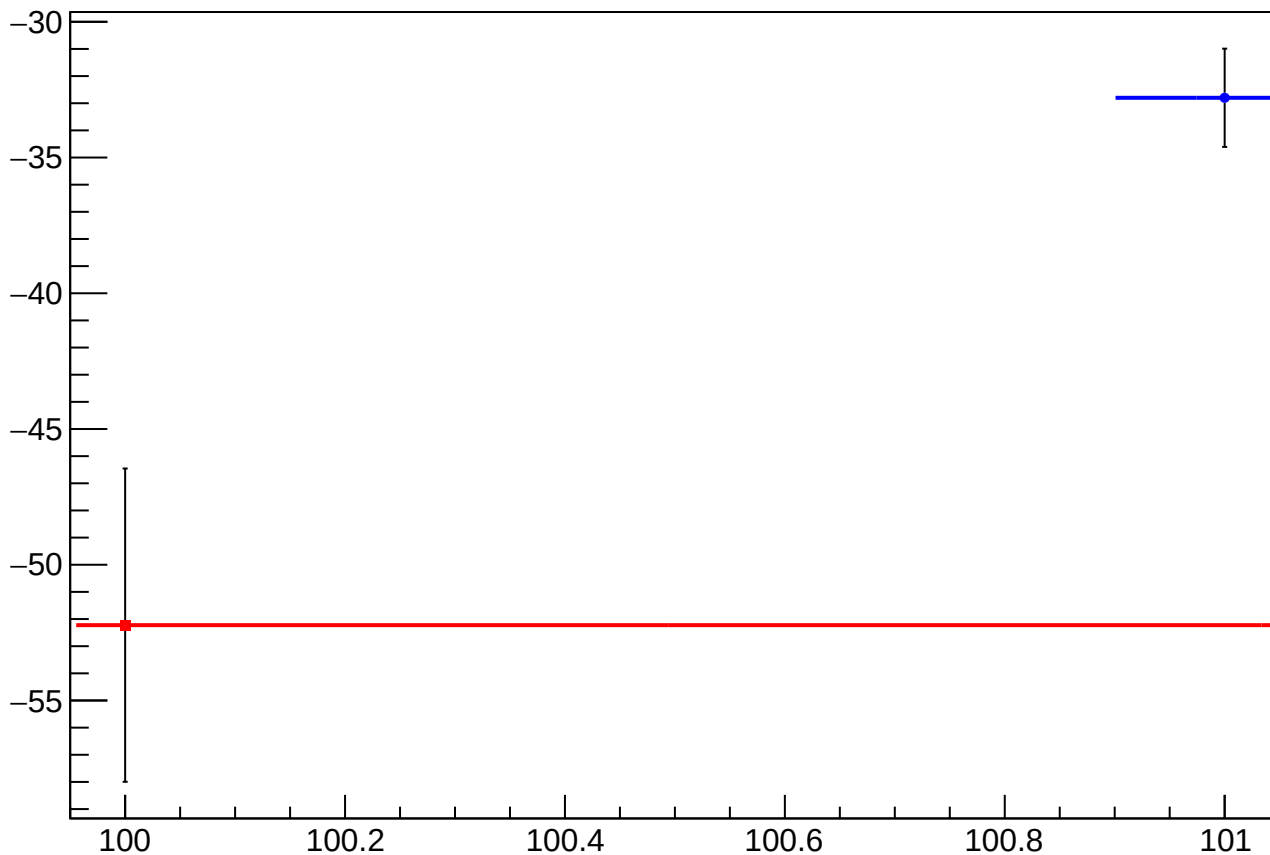
In: 1802.400 $\pm$ 1.572  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1806.227 $\pm$ 1.495  $\chi^2/\text{NDF}$ : 62.2/1



# diff\_bpm0i02aY\_mean vs Slug, Sign Corrected



Right In: -32.800+/-1.809  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -52.225+/-5.770  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

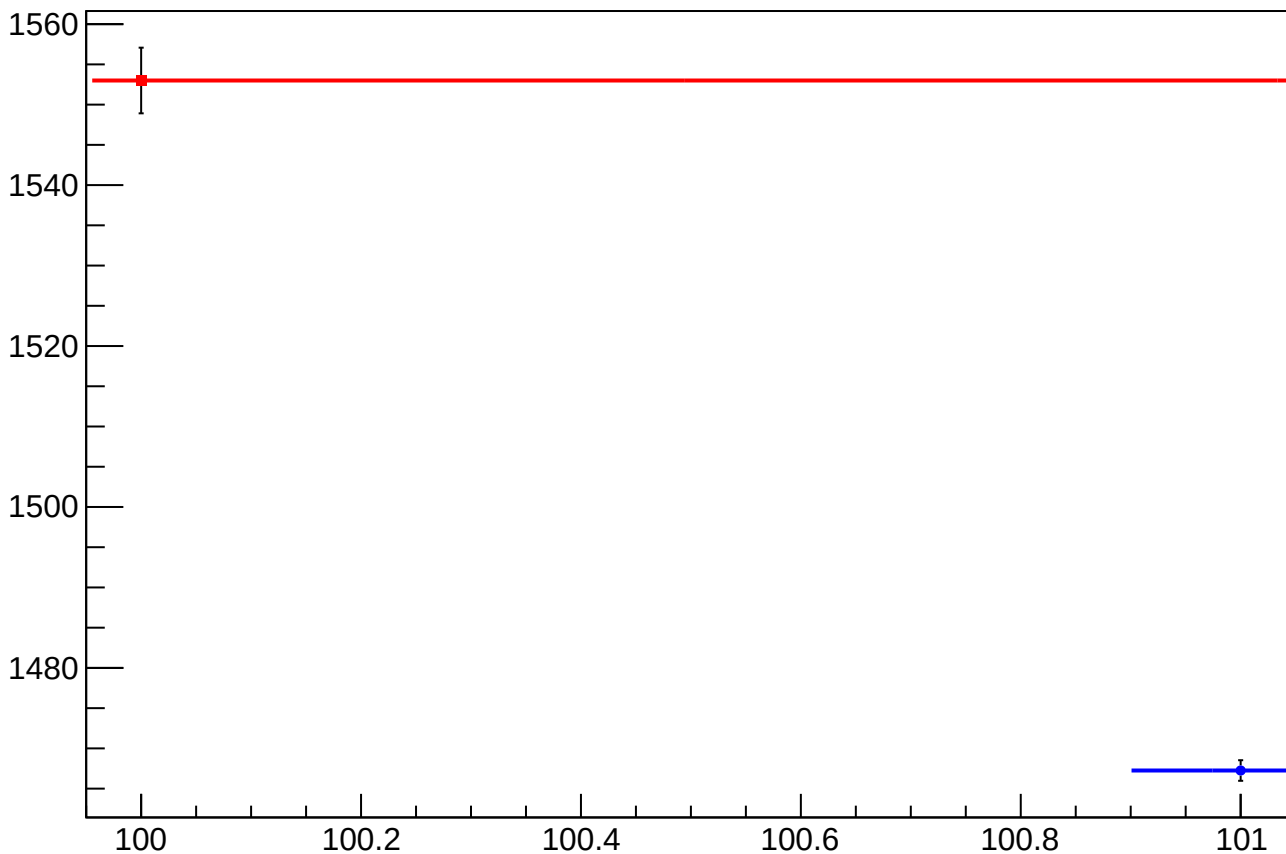
Right: -34.539+/-1.727  $\chi^2/\text{NDF}$ : 10.3/1

In: -32.800+/-1.809  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.539+/-1.727  $\chi^2/\text{NDF}$ : 10.3/1

# diff\_bpm0i02aY\_rms vs Slug, Sign Corrected



Right In: 1467.252 $\pm$ 1.279  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1552.997 $\pm$ 4.080  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

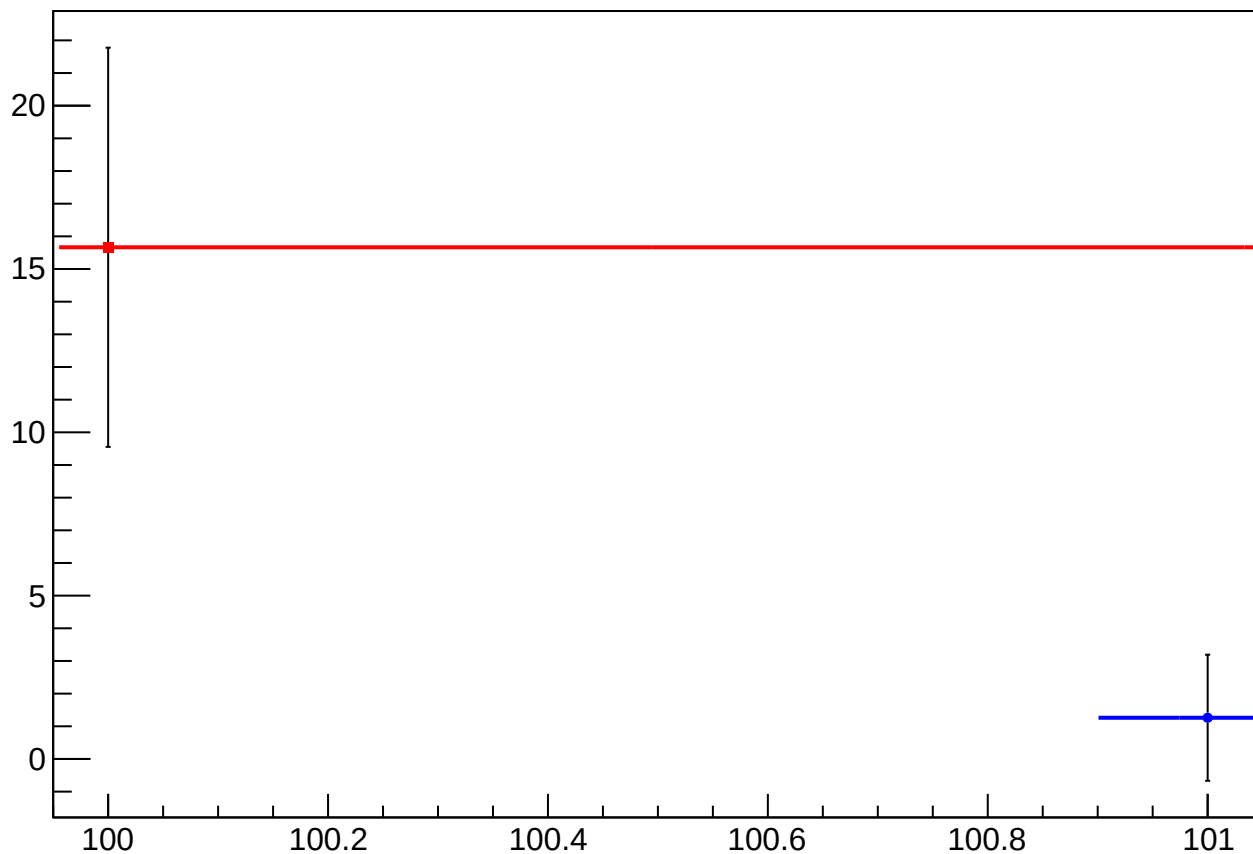
Right: 1474.929 $\pm$ 1.221  $\chi^2/\text{NDF}$ : 402.1/1

In: 1467.252 $\pm$ 1.279  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1474.929 $\pm$ 1.221  $\chi^2/\text{NDF}$ : 402.1/1

# diff\_bpm0i05X\_mean vs Slug, Sign Corrected



Right In: 1.262 $\pm$ 1.930  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 15.665 $\pm$ 6.111  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

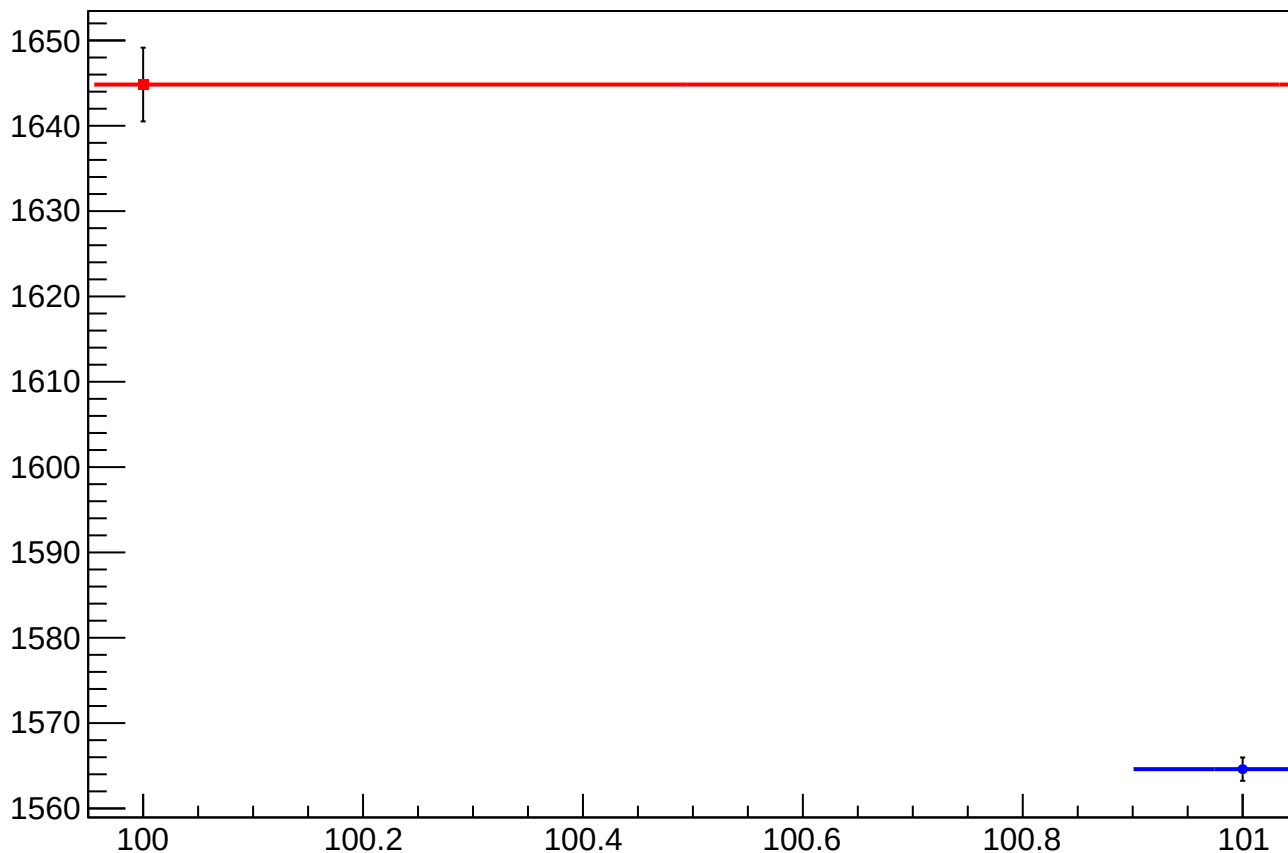
Right: 2.568 $\pm$ 1.841  $\chi^2$ /NDF: 5.1/1

In: 1.262 $\pm$ 1.930  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.568 $\pm$ 1.841  $\chi^2$ /NDF: 5.1/1

# diff\_bpm0i05X\_rms vs Slug, Sign Corrected



Right In: 1564.603 $\pm$ 1.365  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1644.833 $\pm$ 4.321  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

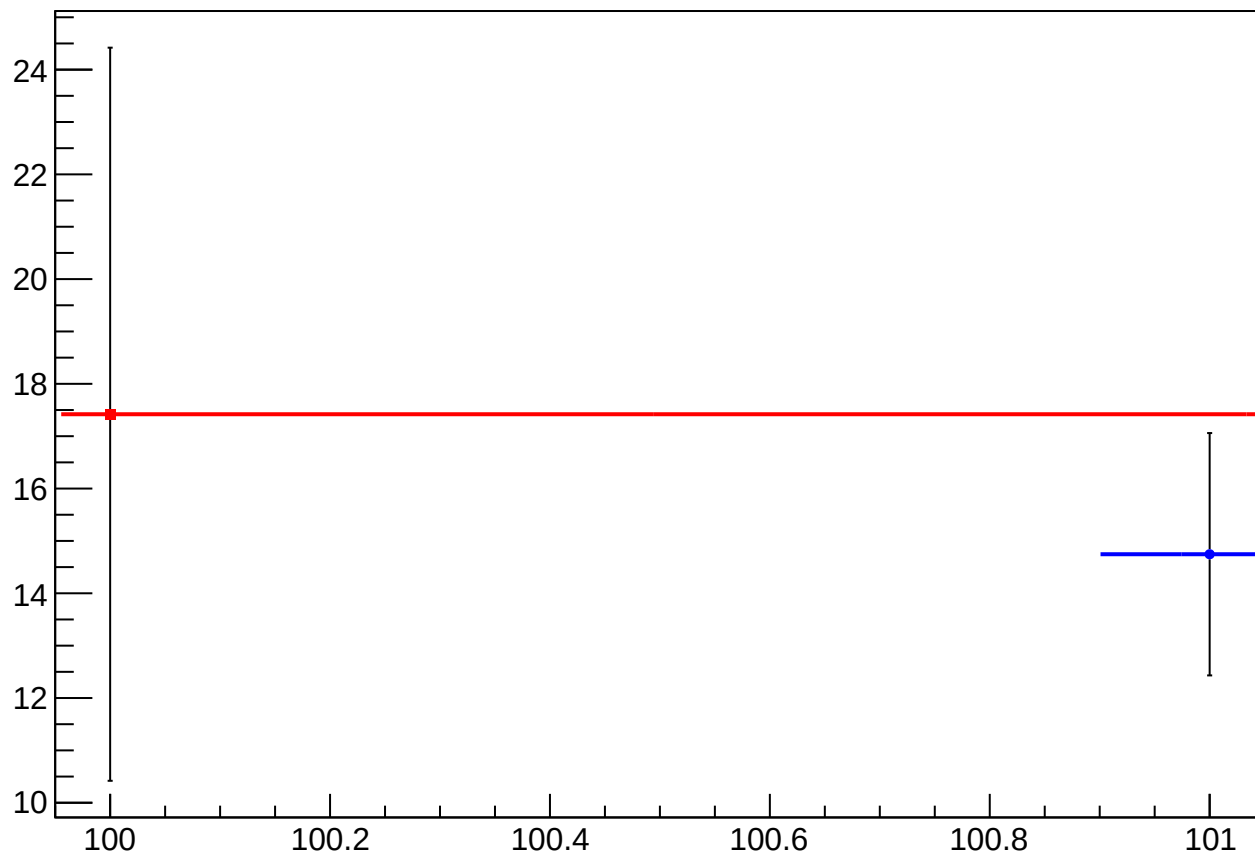
Right: 1571.882 $\pm$ 1.302  $\chi^2$ /NDF: 313.4/1

In: 1564.603 $\pm$ 1.365  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1571.882 $\pm$ 1.302  $\chi^2$ /NDF: 313.4/1

# diff\_bpm0i05Y\_mean vs Slug, Sign Corrected



Right In: 14.746+/-2.314  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.419+/-7.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

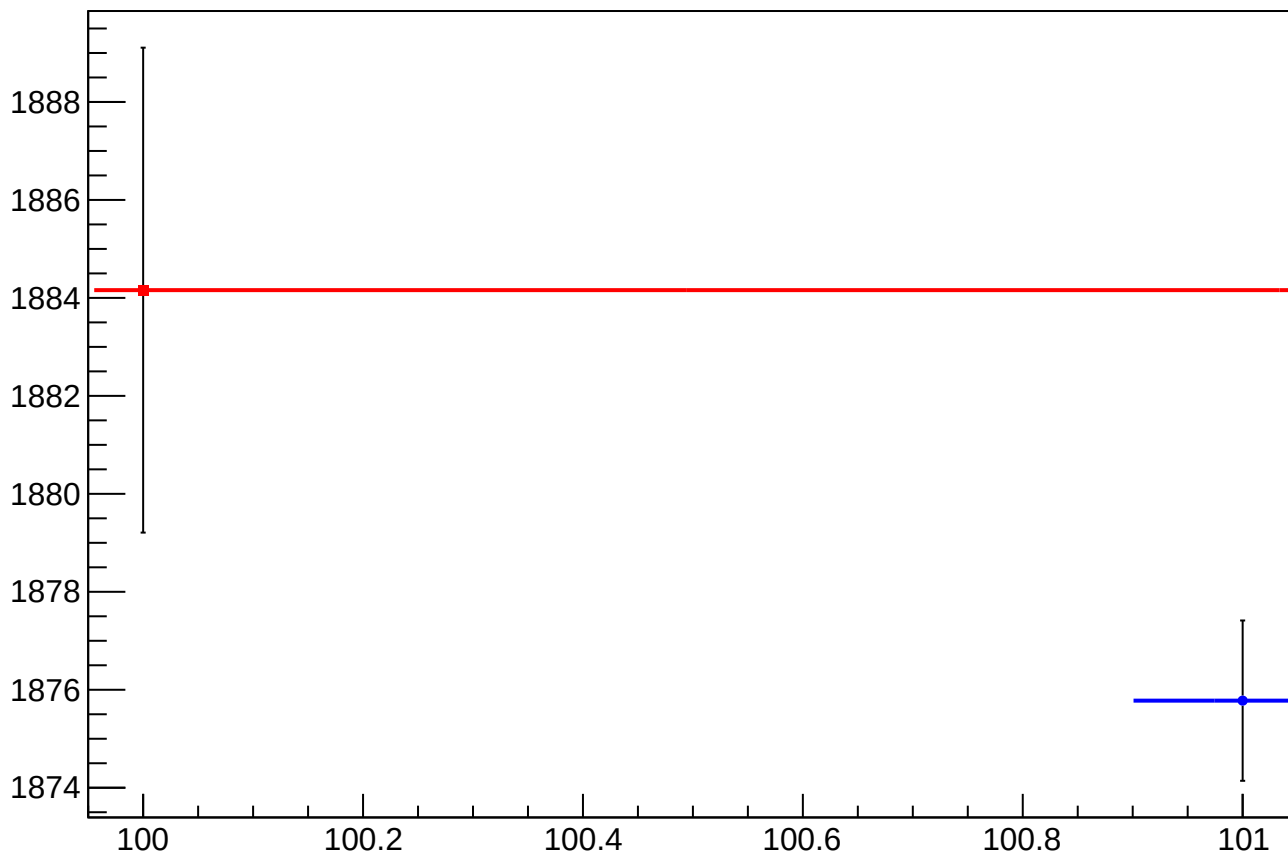
Right: 15.009+/-2.197  $\chi^2/\text{NDF}$ : 0.1/1

In: 14.746+/-2.314  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.009+/-2.197  $\chi^2/\text{NDF}$ : 0.1/1

# diff\_bpm0i05Y\_rms vs Slug, Sign Corrected



Right In: 1875.778 $\pm$ 1.636  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1884.159 $\pm$ 4.950  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

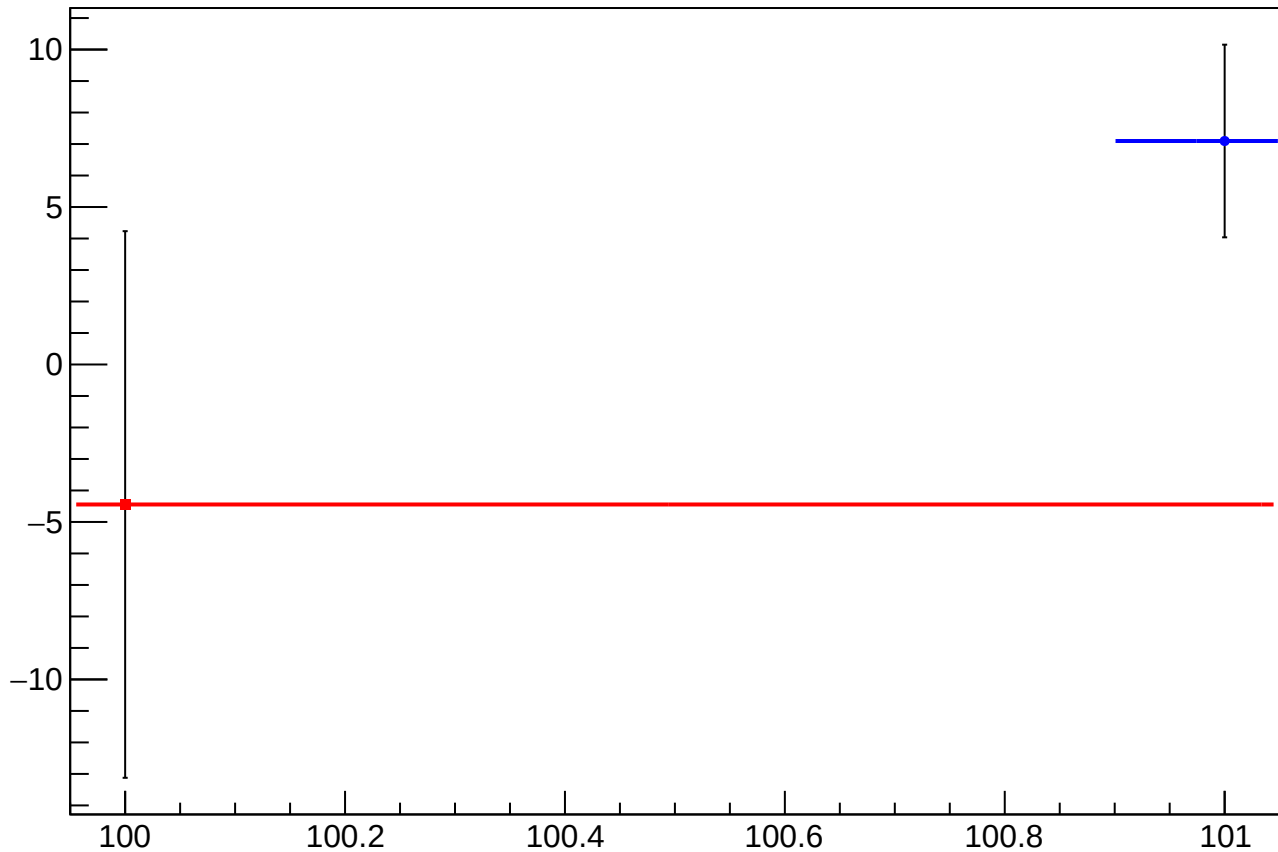
Right: 1876.604 $\pm$ 1.554  $\chi^2$ /NDF: 2.6/1

In: 1875.778 $\pm$ 1.636  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1876.604 $\pm$ 1.554  $\chi^2$ /NDF: 2.6/1

# diff\_bpm0i07X\_mean vs Slug, Sign Corrected



Right In: 7.096 $\pm$ 3.059  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.445 $\pm$ 8.678  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

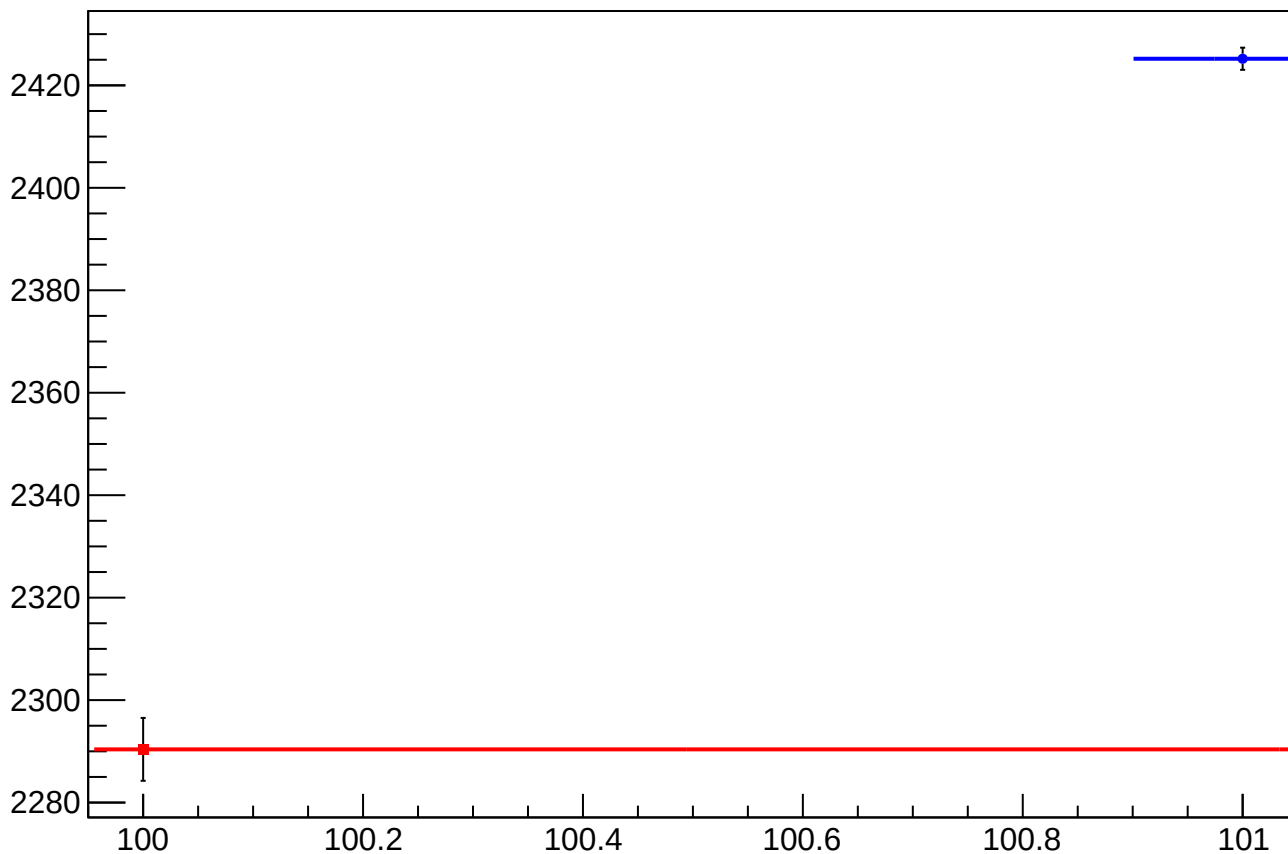
Right: 5.821 $\pm$ 2.885  $\chi^2$ /NDF: 1.6/1

In: 7.096 $\pm$ 3.059  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.821 $\pm$ 2.885  $\chi^2$ /NDF: 1.6/1

# diff\_bpm0i07X\_rms vs Slug, Sign Corrected



Right In: 2425.195+/-2.163  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2290.385+/-6.136  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 2410.299+/-2.040  $\chi^2/\text{NDF}$ : 429.3/1

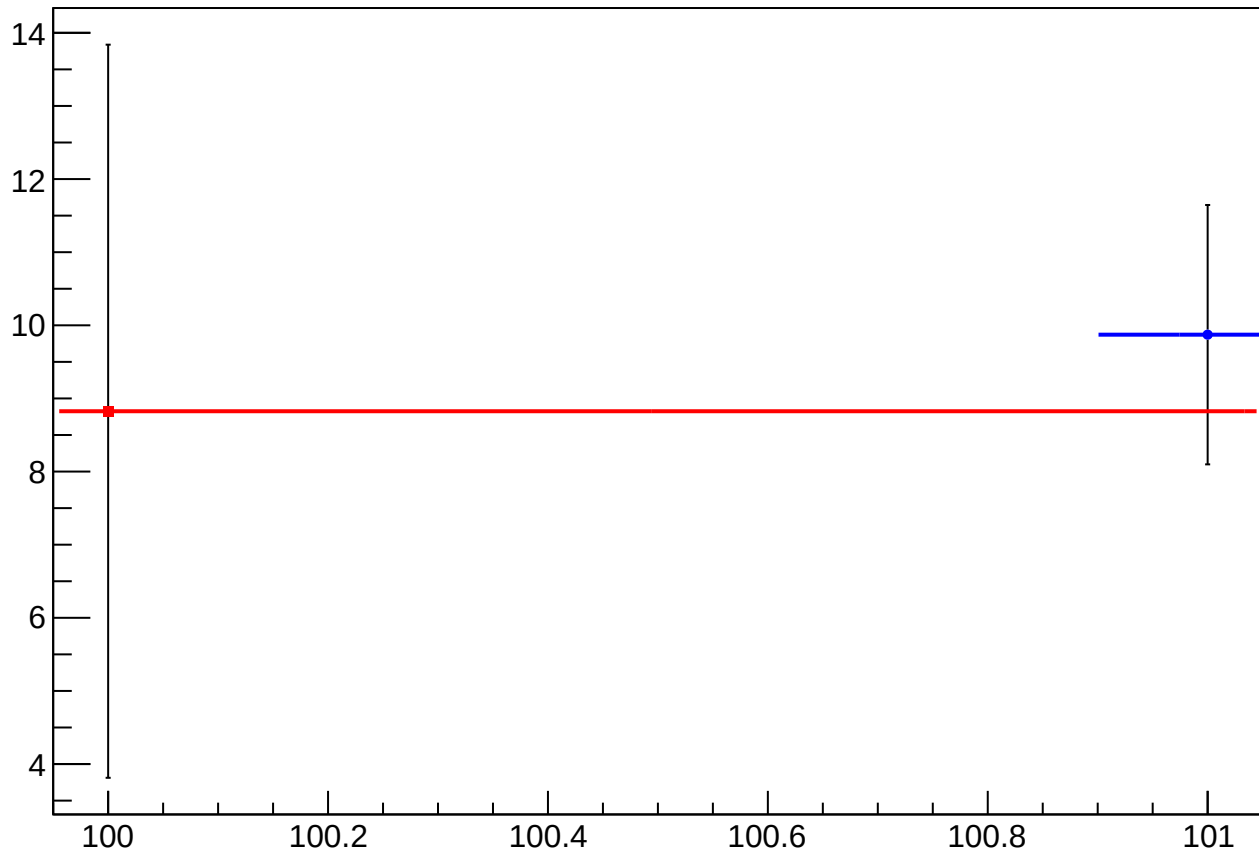
In: 2425.195+/-2.163  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2410.299+/-2.040  $\chi^2/\text{NDF}$ : 429.3/1



# diff\_bpm0i07Y\_mean vs Slug, Sign Corrected



Right In: 9.872 $\pm$ 1.774  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8.825 $\pm$ 5.013  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

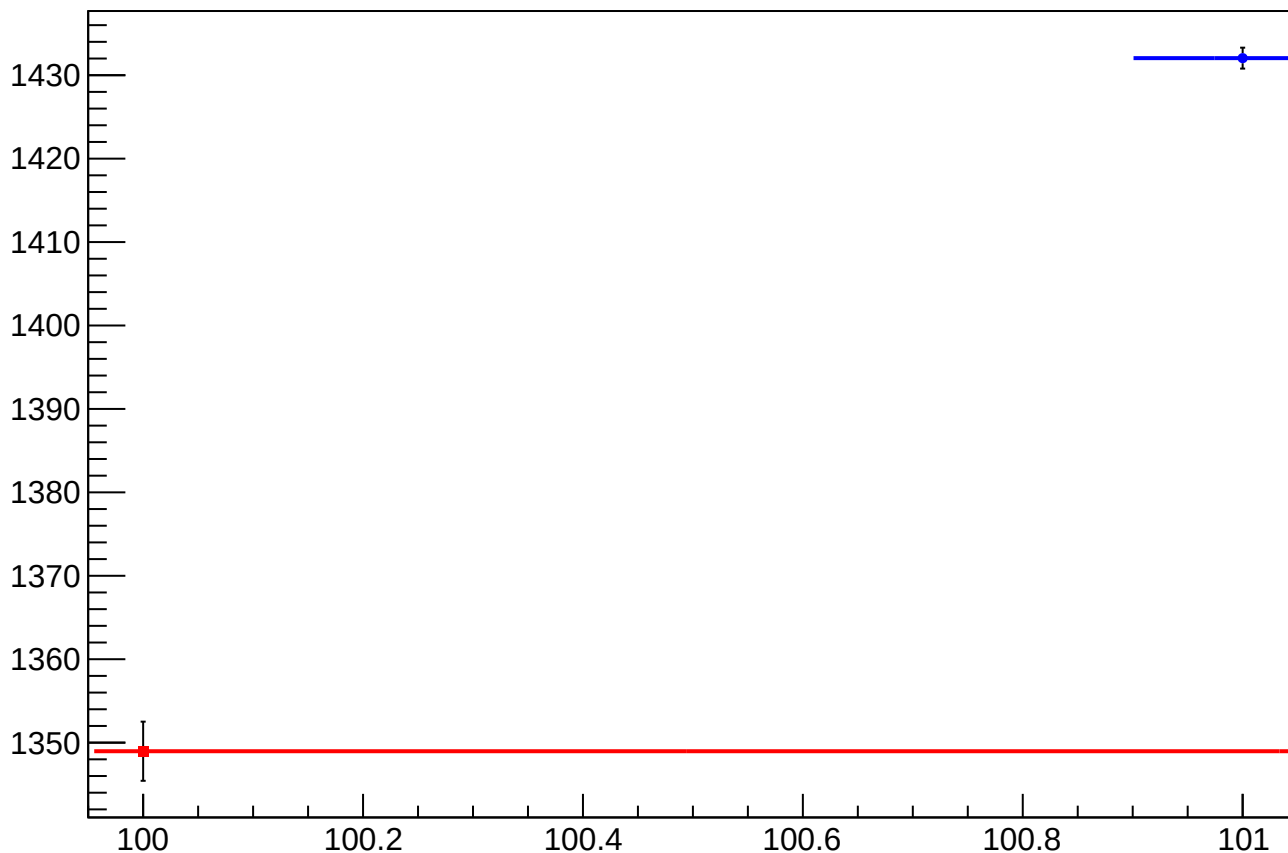
Right: 9.756 $\pm$ 1.672  $\chi^2$ /NDF: 0.0/1

In: 9.872 $\pm$ 1.774  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.756 $\pm$ 1.672  $\chi^2$ /NDF: 0.0/1

# diff\_bpm0i07Y\_rms vs Slug, Sign Corrected



Right In: 1432.047 $\pm$ 1.254  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1348.971 $\pm$ 3.545  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

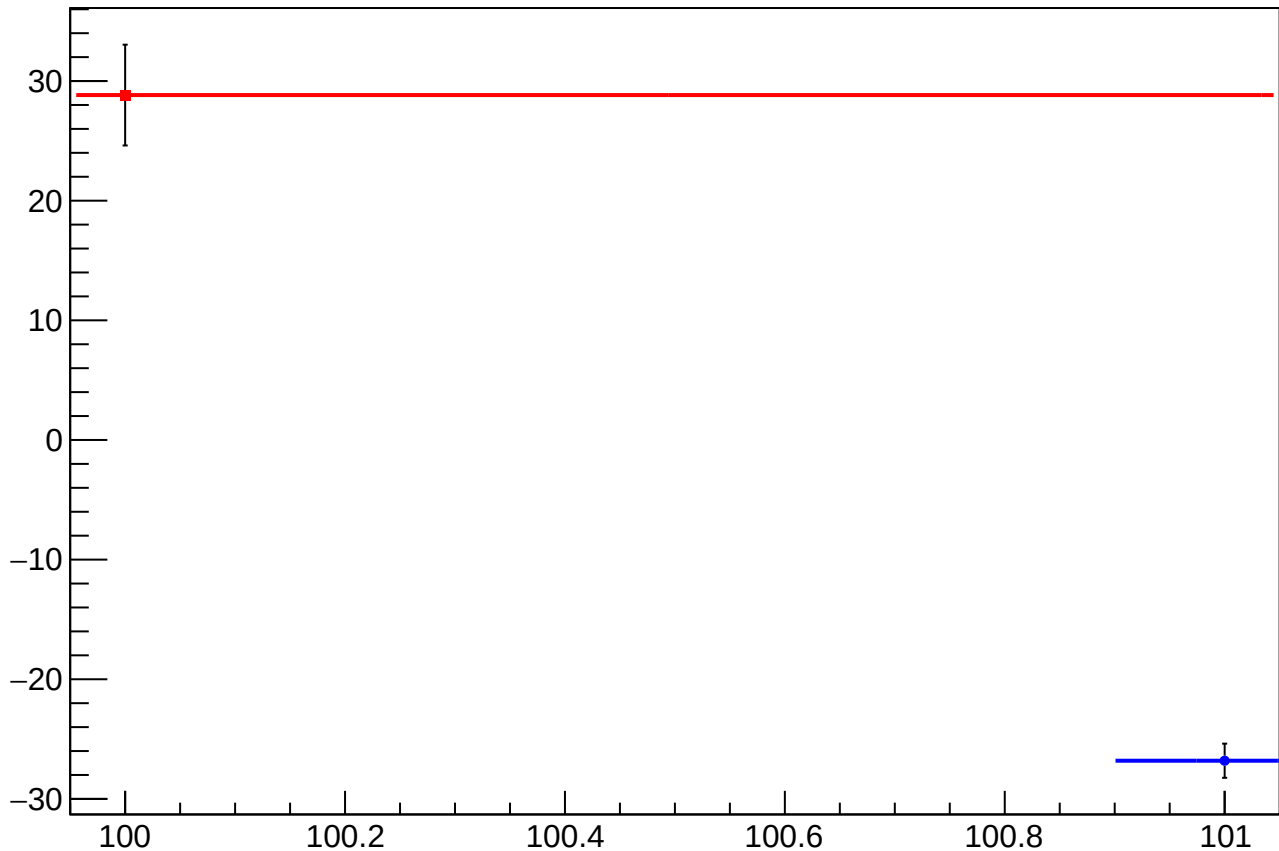
Right: 1422.805 $\pm$ 1.182  $\chi^2$ /NDF: 488.2/1

In: 1432.047 $\pm$ 1.254  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1422.805 $\pm$ 1.182  $\chi^2$ /NDF: 488.2/1

# diff\_bpm1i02X\_mean vs Slug, Sign Corrected



Right In: -26.809 $\pm$ 1.428  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.828 $\pm$ 4.213  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

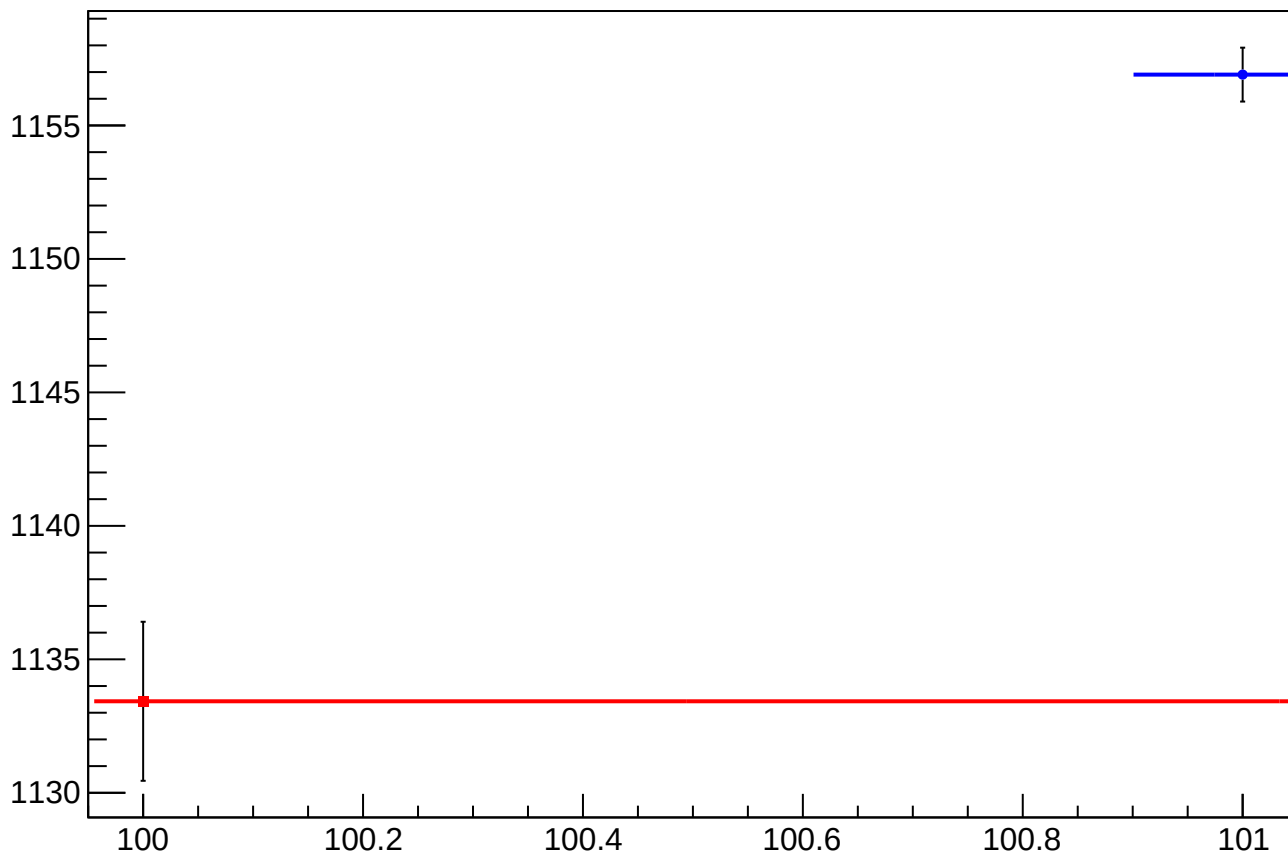
Right: -21.078 $\pm$ 1.352  $\chi^2$ /NDF: 156.5/1

In: -26.809 $\pm$ 1.428  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -21.078 $\pm$ 1.352  $\chi^2$ /NDF: 156.5/1

# diff\_bpm1i02X\_rms vs Slug, Sign Corrected



Right In: 1156.905 $\pm$ 1.009  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1133.428 $\pm$ 2.979  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

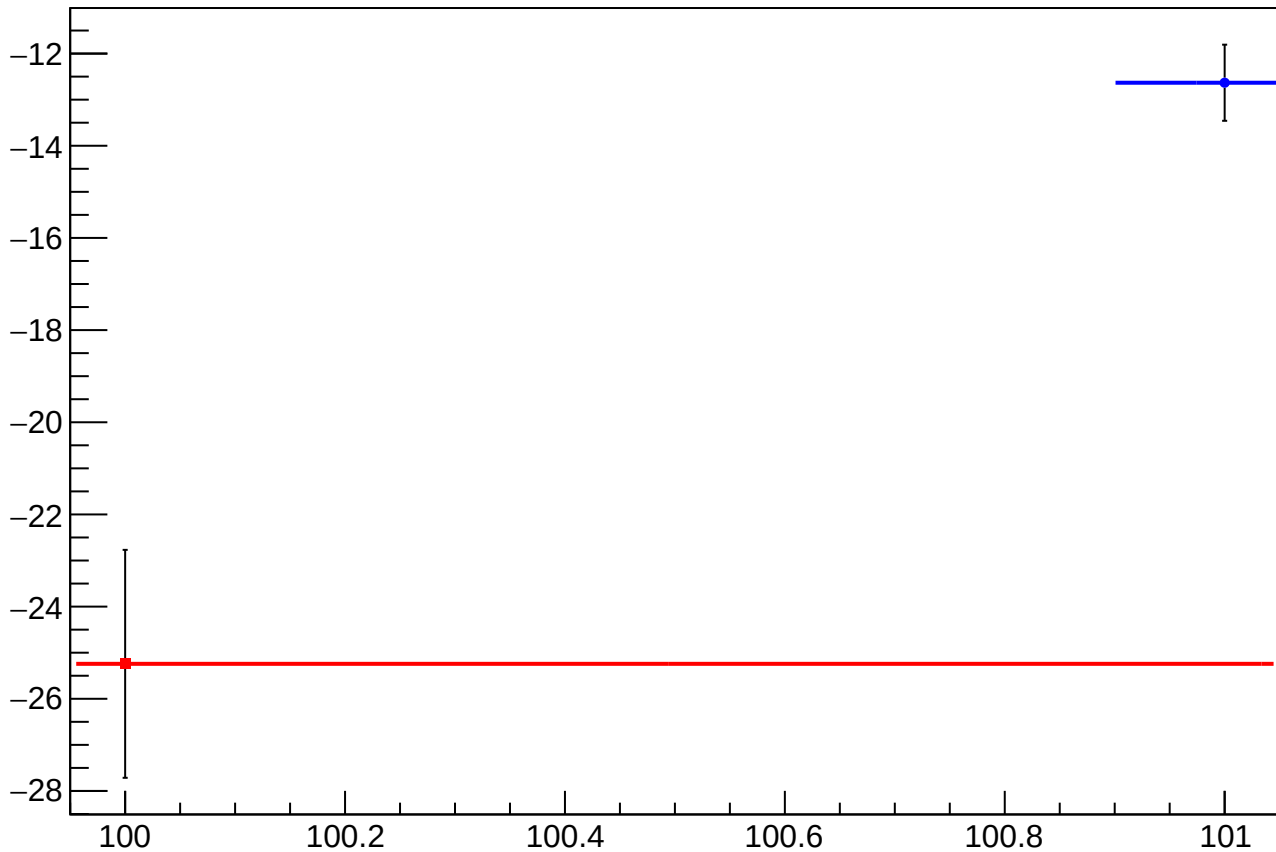
Right: 1154.487 $\pm$ 0.956  $\chi^2$ /NDF: 55.7/1

In: 1156.905 $\pm$ 1.009  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1154.487 $\pm$ 0.956  $\chi^2$ /NDF: 55.7/1

# diff\_bpm1i02Y\_mean vs Slug, Sign Corrected



Right In: -12.633 $\pm$ 0.826  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25.242 $\pm$ 2.473  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

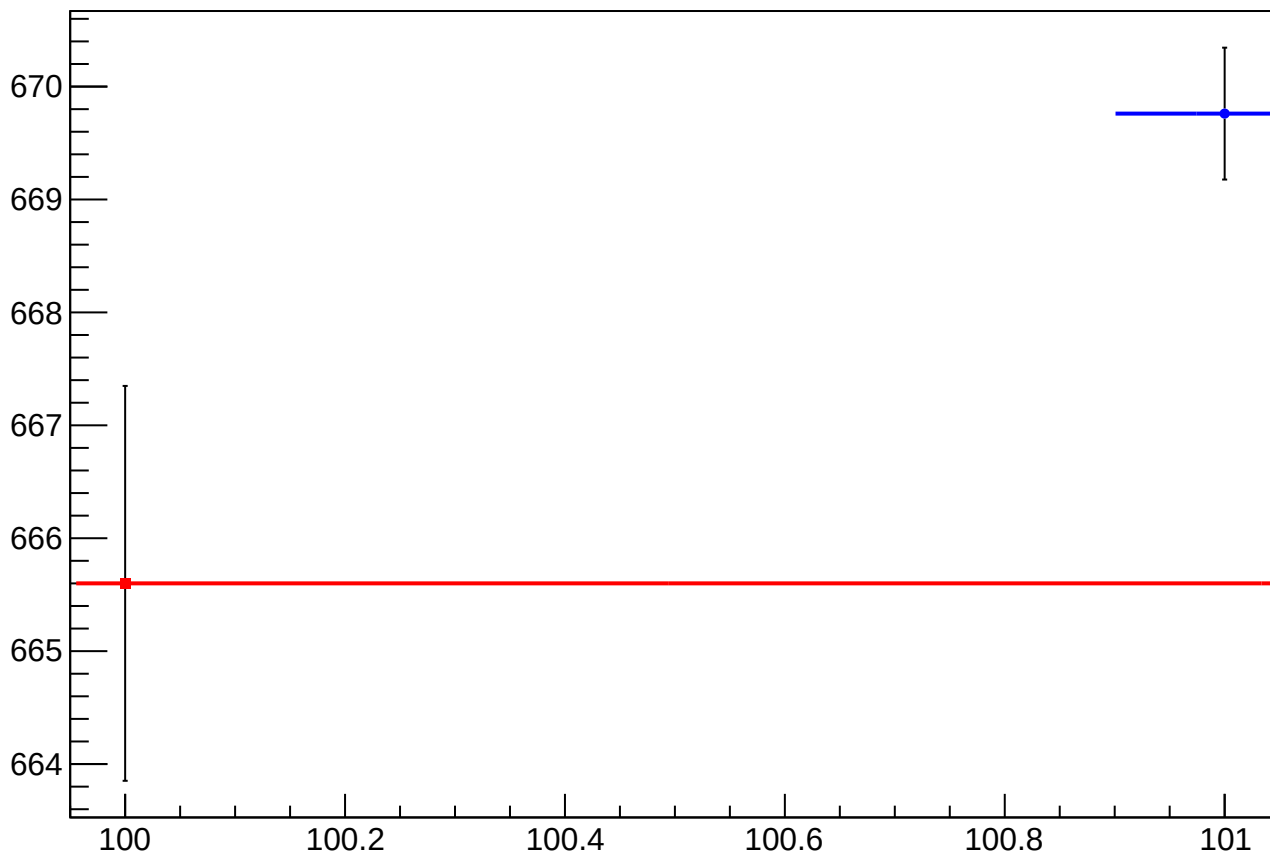
Right: -13.898 $\pm$ 0.783  $\chi^2/\text{NDF}$ : 23.4/1

In: -12.633 $\pm$ 0.826  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.898 $\pm$ 0.783  $\chi^2/\text{NDF}$ : 23.4/1

# diff\_bpm1i02Y\_rms vs Slug, Sign Corrected



Right In: 669.761 $\pm$ 0.584  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 665.600 $\pm$ 1.749  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

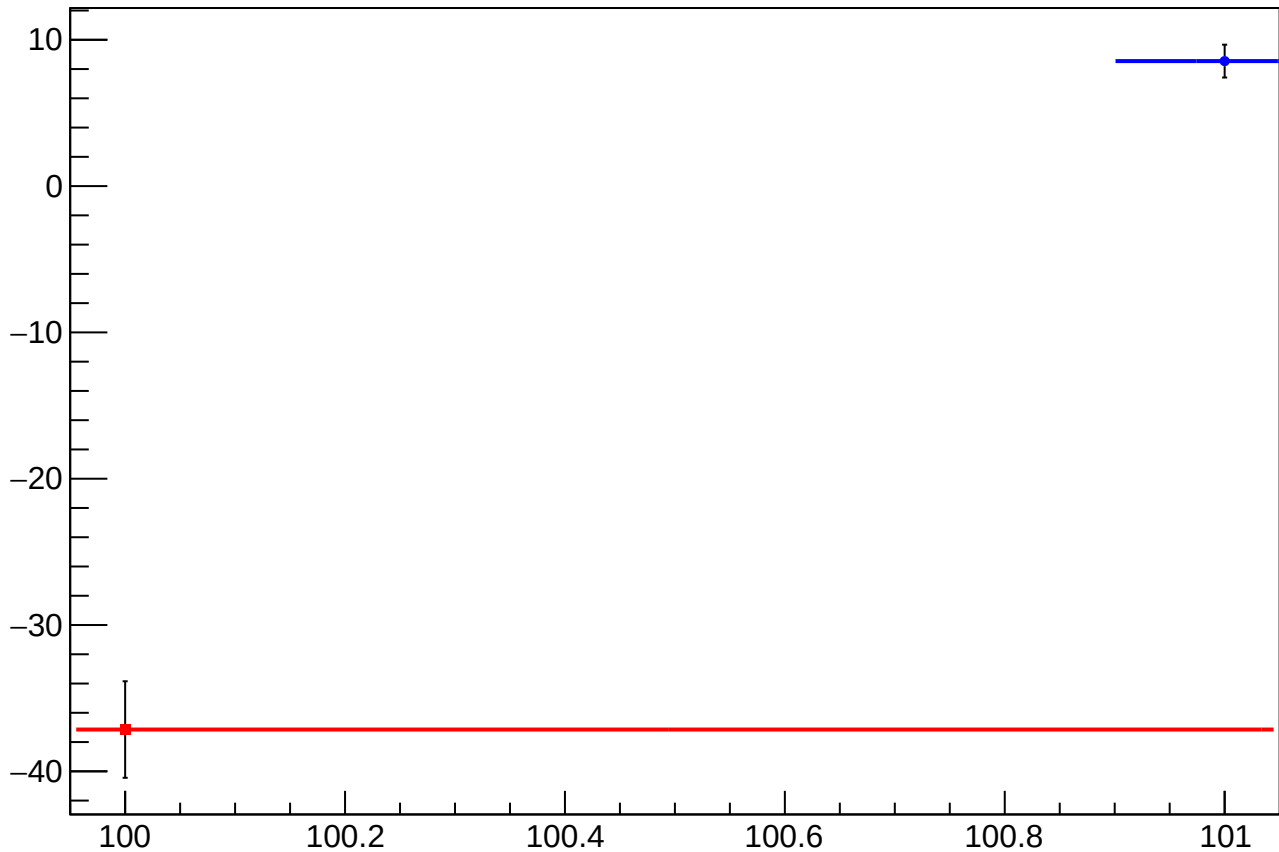
Right: 669.343 $\pm$ 0.554  $\chi^2$ /NDF: 5.1/1

In: 669.761 $\pm$ 0.584  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 669.343 $\pm$ 0.554  $\chi^2$ /NDF: 5.1/1

# diff\_bpm1i04X\_mean vs Slug, Sign Corrected



Right In: 8.544 $\pm$ 1.123  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -37.143 $\pm$ 3.299  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

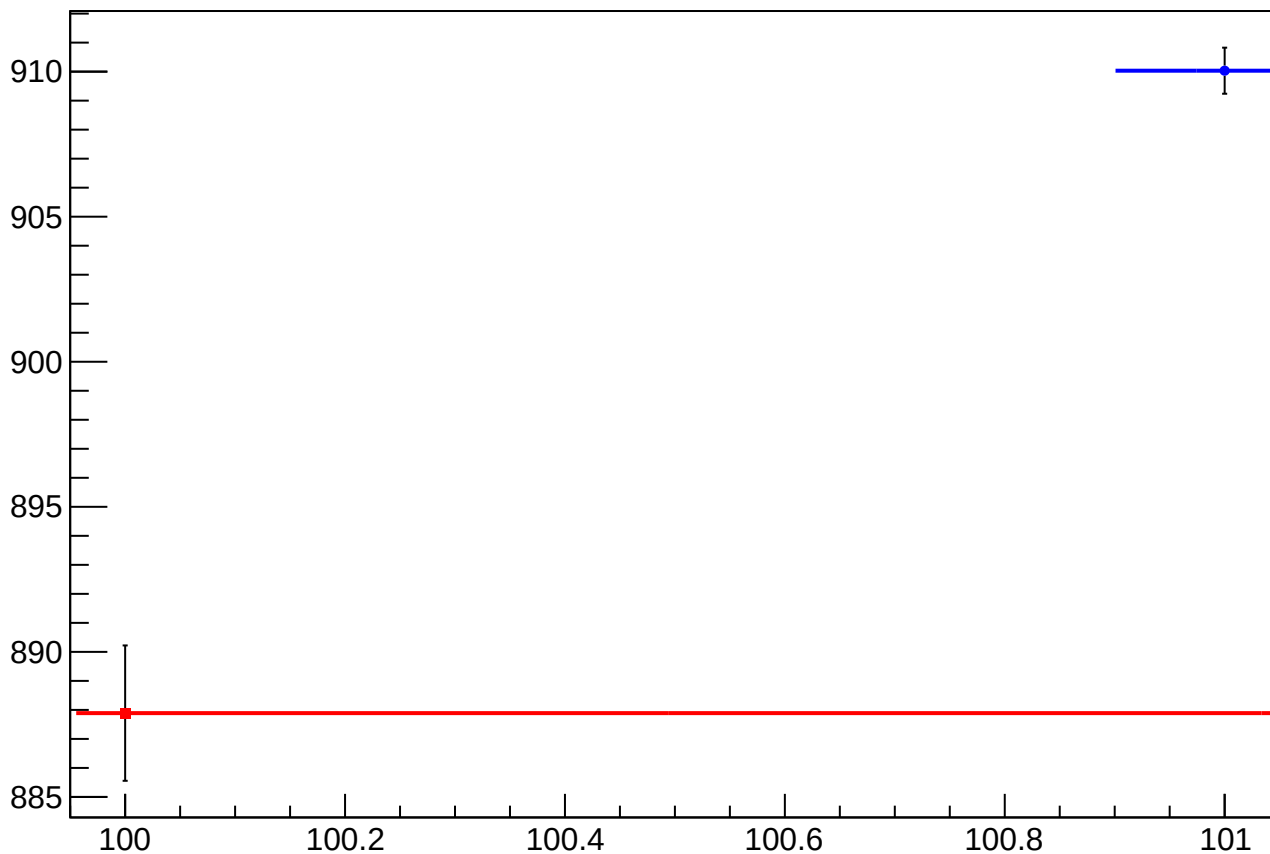
Right: 3.802 $\pm$ 1.063  $\chi^2$ /NDF: 171.9/1

In: 8.544 $\pm$ 1.123  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.802 $\pm$ 1.063  $\chi^2$ /NDF: 171.9/1

# diff\_bpm1i04X\_rms vs Slug, Sign Corrected



Right In:  $910.032 \pm 0.794$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $887.889 \pm 2.333$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right:  $907.734 \pm 0.752$   $\chi^2/\text{NDF}$ : 80.7/1

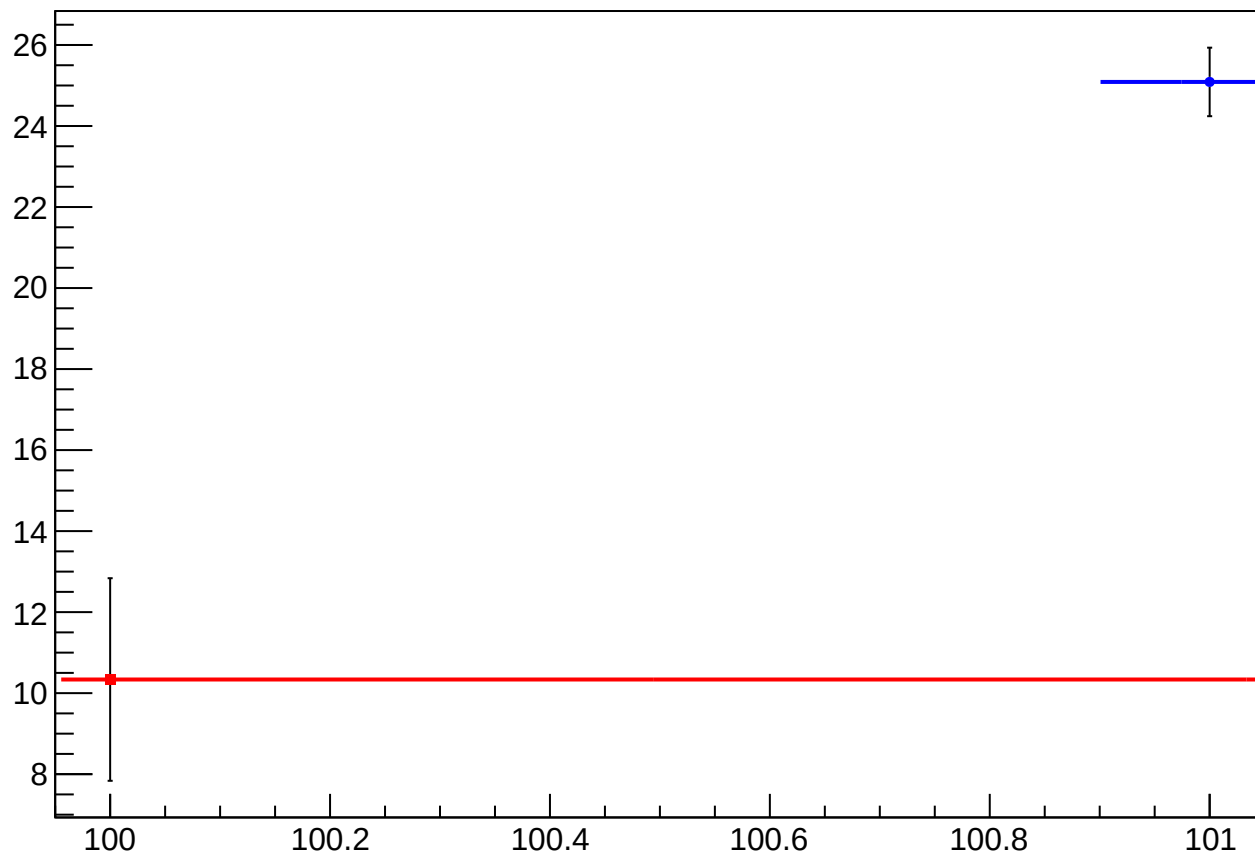
In:  $910.032 \pm 0.794$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $907.734 \pm 0.752$   $\chi^2/\text{NDF}$ : 80.7/1



# diff\_bpm1i04Y\_mean vs Slug, Sign Corrected



Right In: 25.088+/-0.846  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.337+/-2.501  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

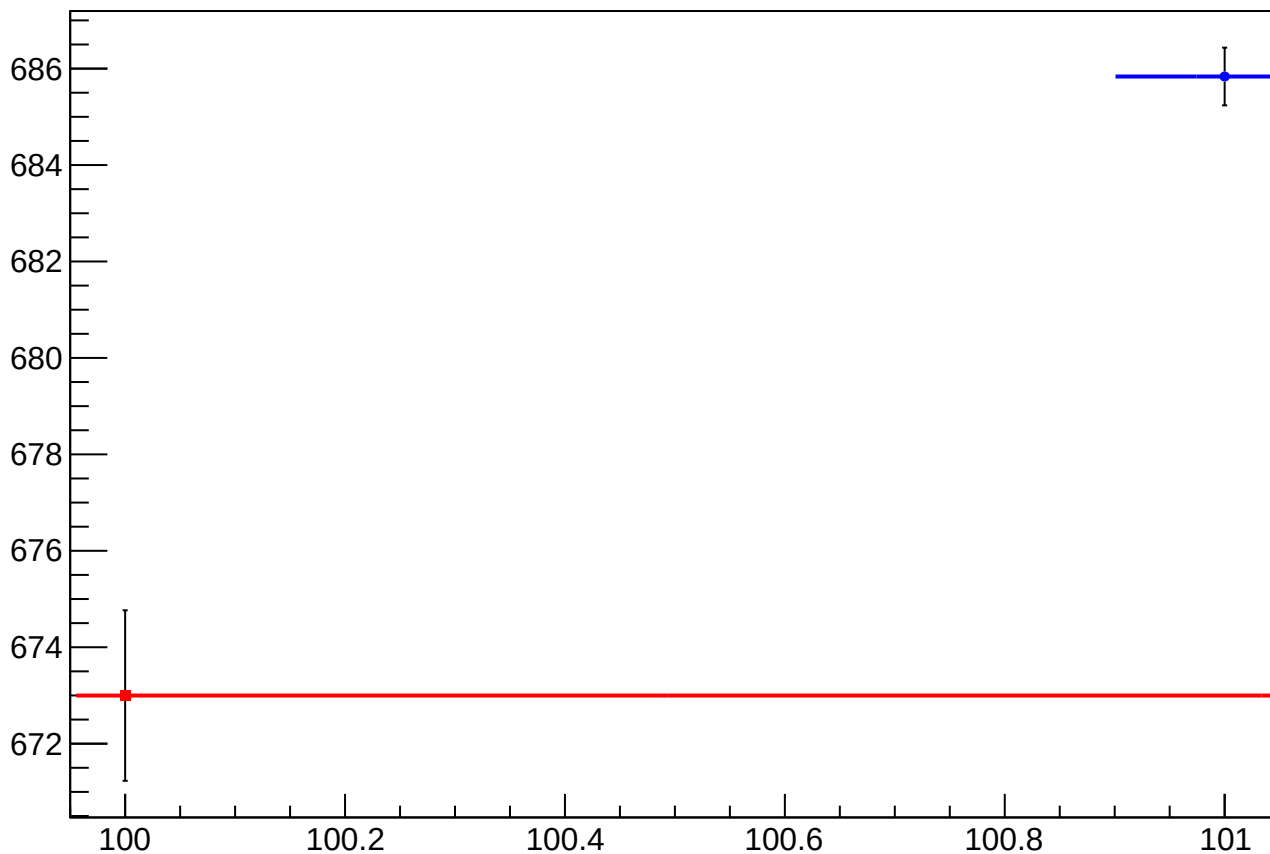
Right: 23.574+/-0.801  $\chi^2/\text{NDF}$ : 31.2/1

In: 25.088+/-0.846  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.574+/-0.801  $\chi^2/\text{NDF}$ : 31.2/1

# diff\_bpm1i04Y\_rms vs Slug, Sign Corrected



Right In: 685.836 $\pm$ 0.598  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 672.998 $\pm$ 1.768  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

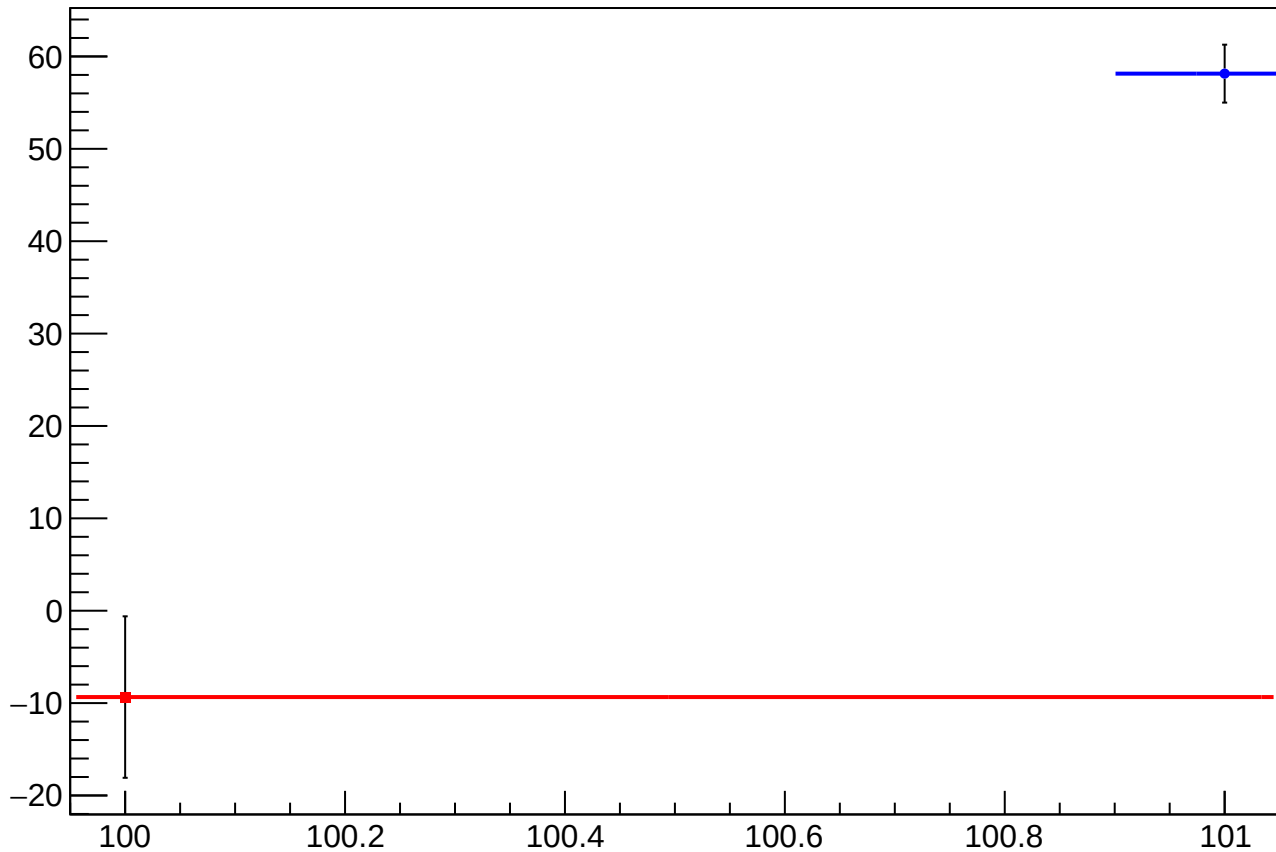
Right: 684.518 $\pm$ 0.567  $\chi^2$ /NDF: 47.3/1

In: 685.836 $\pm$ 0.598  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 684.518 $\pm$ 0.567  $\chi^2$ /NDF: 47.3/1

# diff\_bpm1i06X\_mean vs Slug, Sign Corrected



Right In: 58.139+/-3.136  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9.346+/-8.740  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

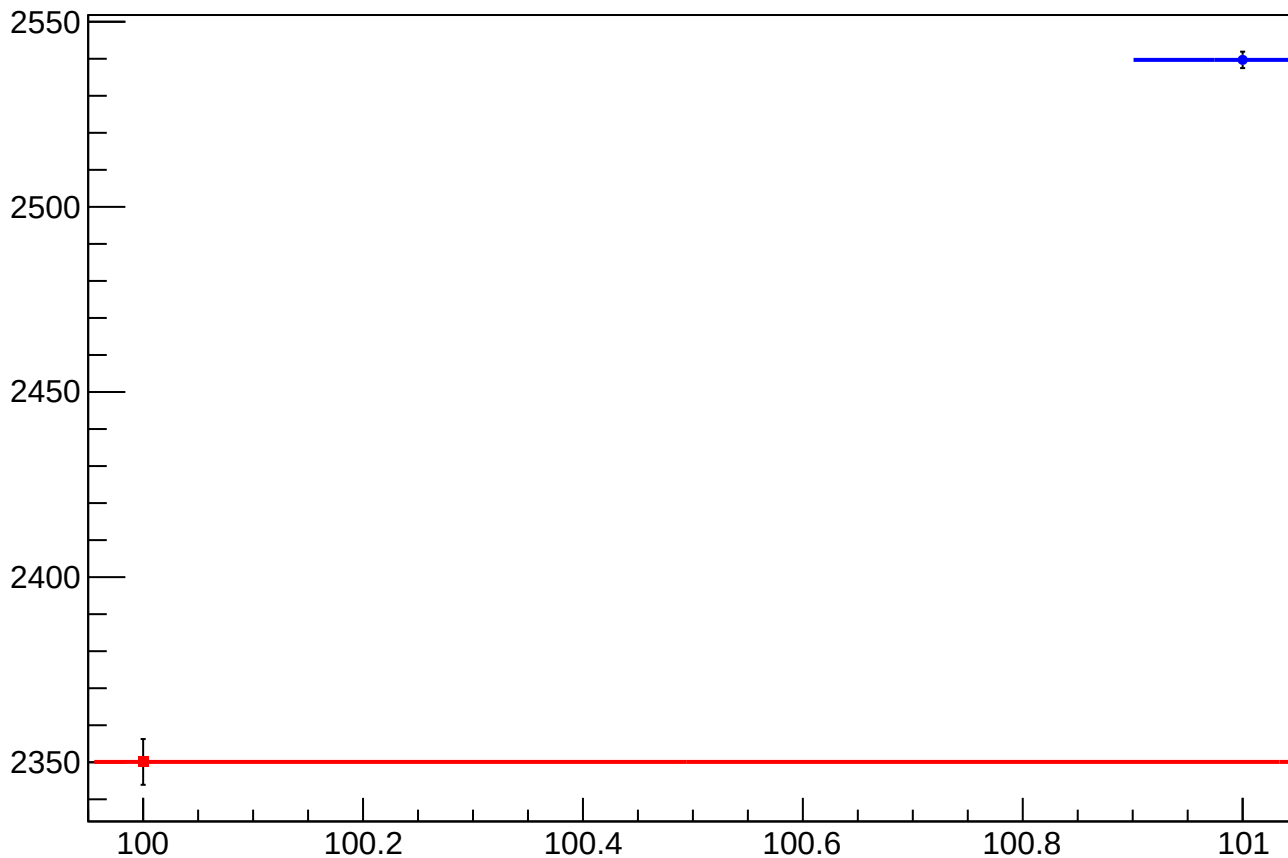
Right: 50.444+/-2.951  $\chi^2/\text{NDF}$ : 52.8/1

In: 58.139+/-3.136  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.444+/-2.951  $\chi^2/\text{NDF}$ : 52.8/1

# diff\_bpm1i06X\_rms vs Slug, Sign Corrected



Right In: 2539.700 $\pm$ 2.217  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2350.097 $\pm$ 6.180  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

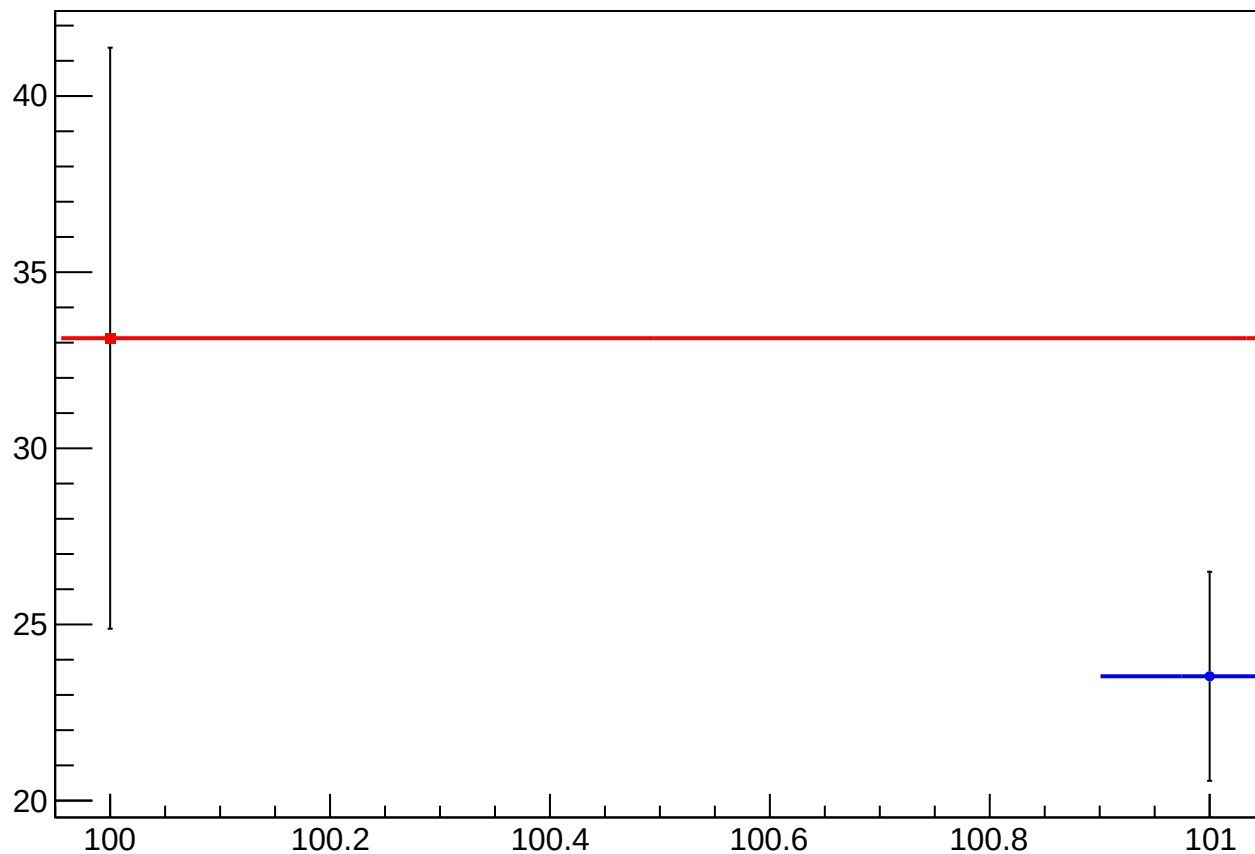
Right: 2518.078 $\pm$ 2.087  $\chi^2$ /NDF: 833.9/1

In: 2539.700 $\pm$ 2.217  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2518.078 $\pm$ 2.087  $\chi^2$ /NDF: 833.9/1

# diff\_bpm1i06Y\_mean vs Slug, Sign Corrected



Right In: 23.530 $\pm$ 2.967  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 33.126 $\pm$ 8.247  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

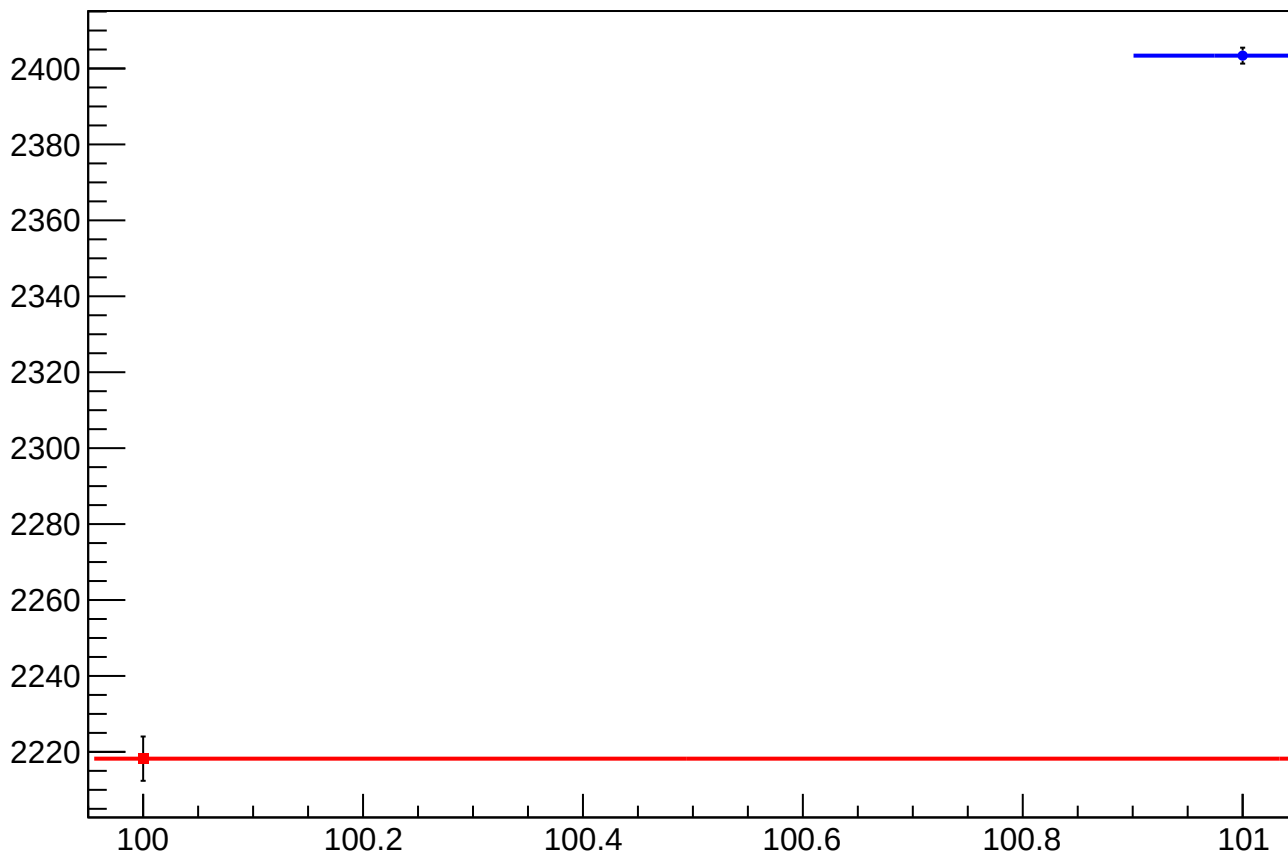
Right: 24.630 $\pm$ 2.792  $\chi^2$ /NDF: 1.2/1

In: 23.530 $\pm$ 2.967  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 24.630 $\pm$ 2.792  $\chi^2$ /NDF: 1.2/1

# diff\_bpm1i06Y\_rms vs Slug, Sign Corrected



Right In: 2403.386 $\pm$ 2.098  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2218.214 $\pm$ 5.831  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

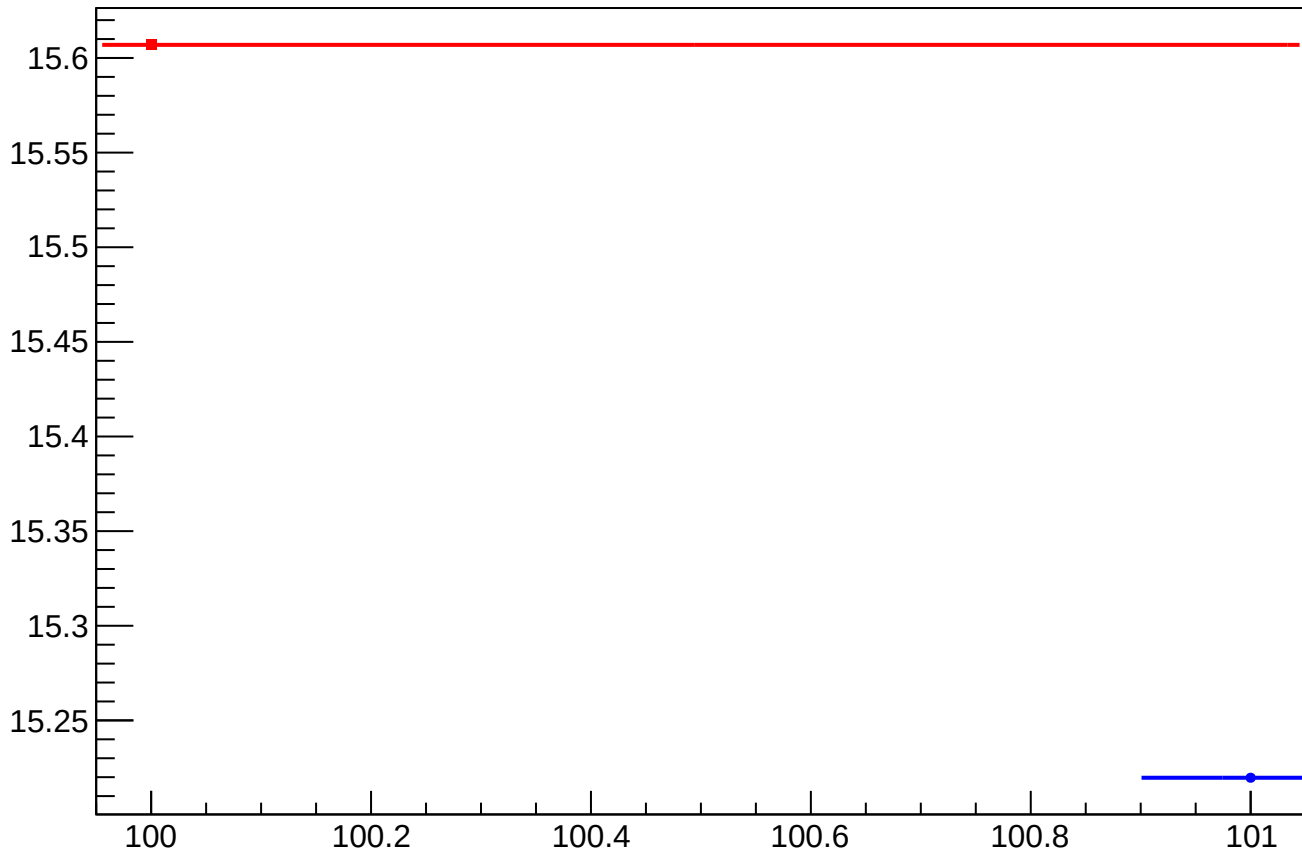
Right: 2382.163 $\pm$ 1.974  $\chi^2/\text{NDF}$ : 892.8/1

In: 2403.386 $\pm$ 2.098  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2382.163 $\pm$ 1.974  $\chi^2/\text{NDF}$ : 892.8/1

# yield\_sam1\_mean vs Slug, Sign Corrected



Right In: 15.220+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.607+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

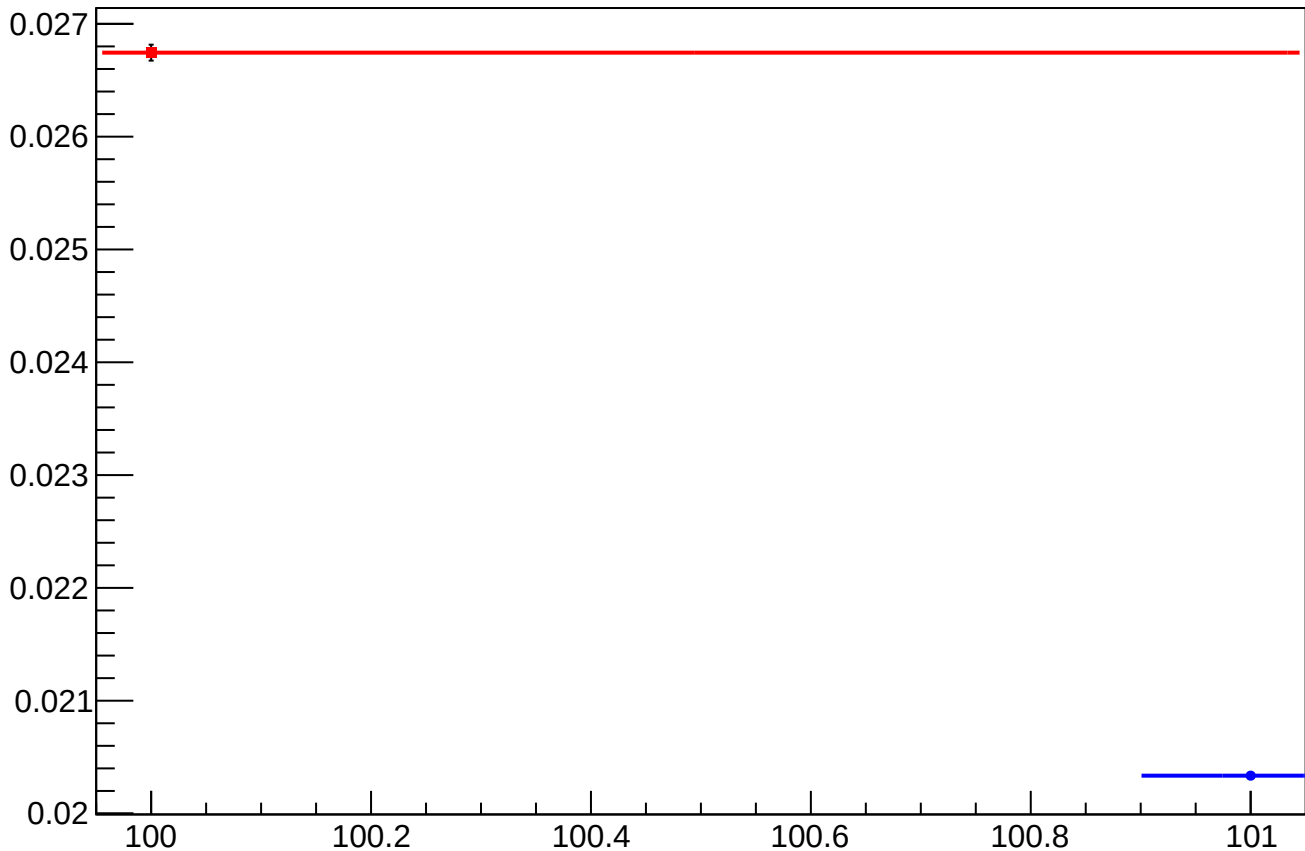
Right: 15.245+/-0.000  $\chi^2/\text{NDF}$ : 14012979.3/1

In: 15.220+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.245+/-0.000  $\chi^2/\text{NDF}$ : 14012979.3/1

# yield\_sam1\_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.027+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 7677.7/1

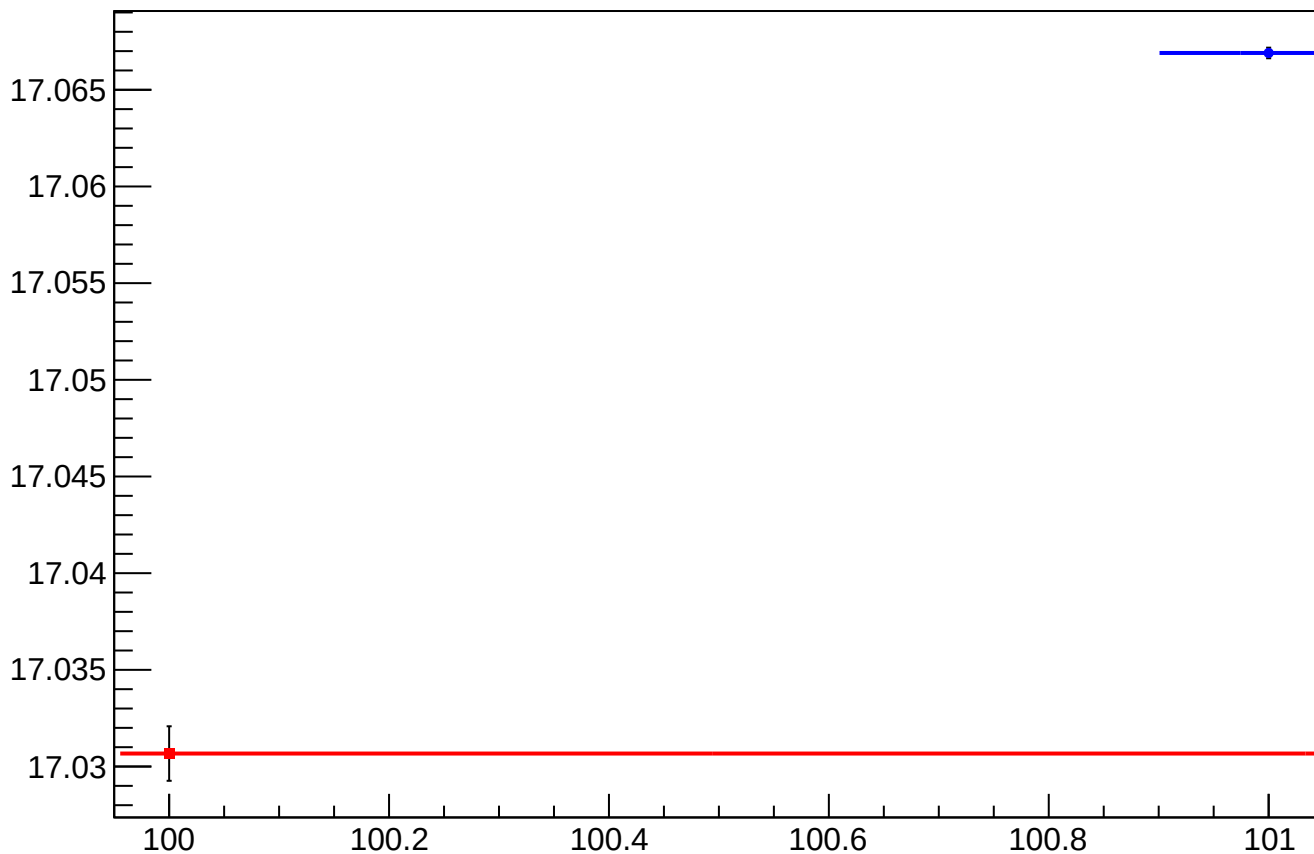
In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 7677.7/1



# yield\_sam2\_mean vs Slug, Sign Corrected



Right In: 17.067+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17.031+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

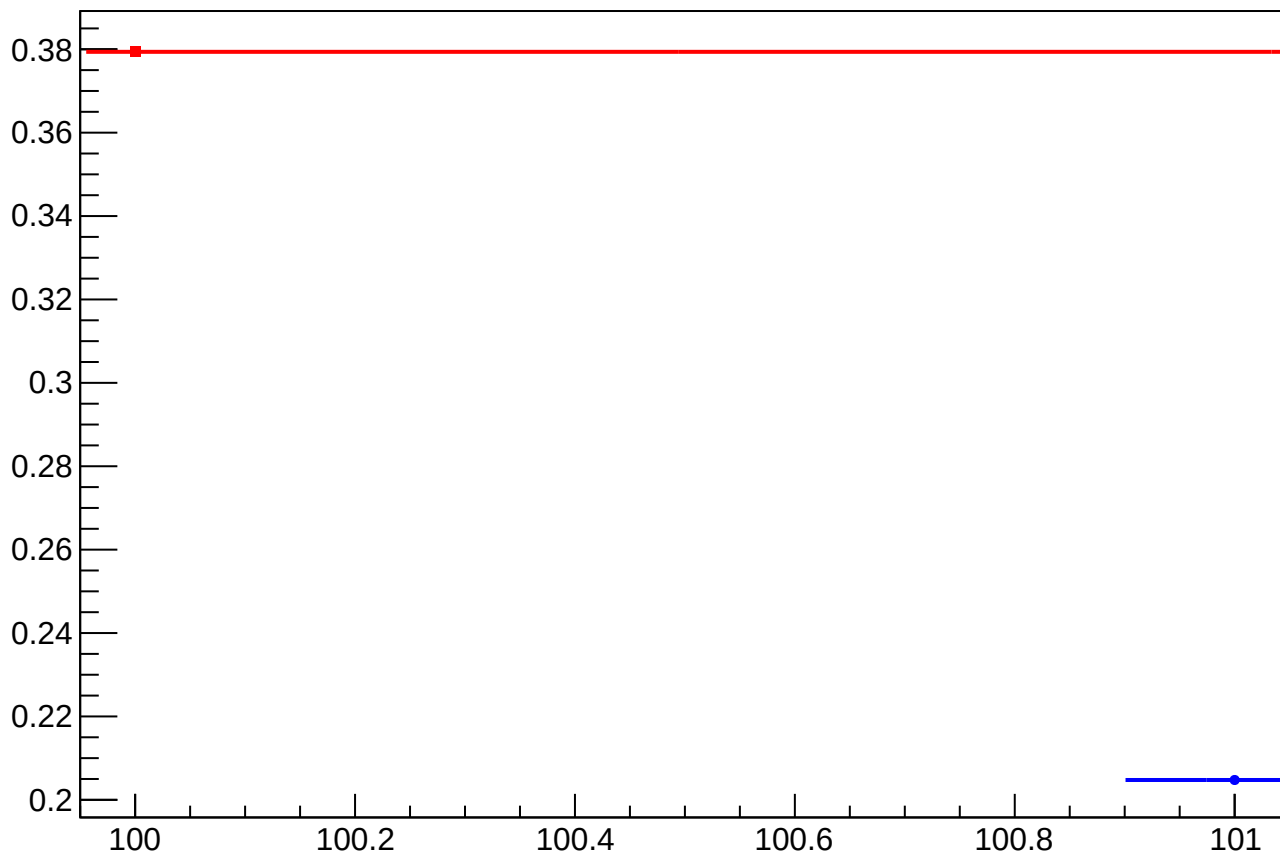
Right: 17.066+/-0.000  $\chi^2/\text{NDF}$ : 636.5/1

In: 17.067+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.066+/-0.000  $\chi^2/\text{NDF}$ : 636.5/1

# yield\_sam2\_rms vs Slug, Sign Corrected



Right In: 0.205+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.379+/-0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

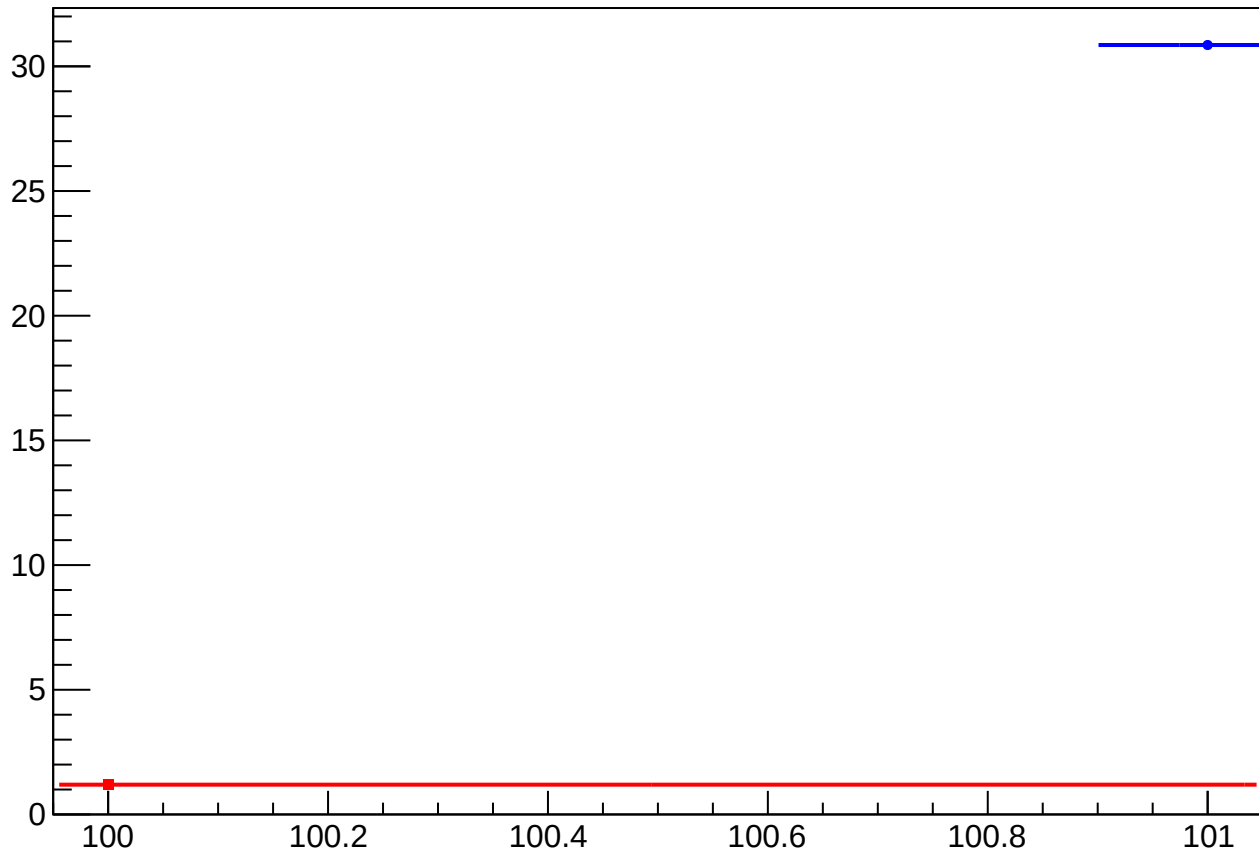
Right: 0.211+/-0.000  $\chi^2/\text{NDF}$ : 29569.7/1

In: 0.205+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.211+/-0.000  $\chi^2/\text{NDF}$ : 29569.7/1

# yield\_sam3\_mean vs Slug, Sign Corrected



Right In: 30.855+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.194+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

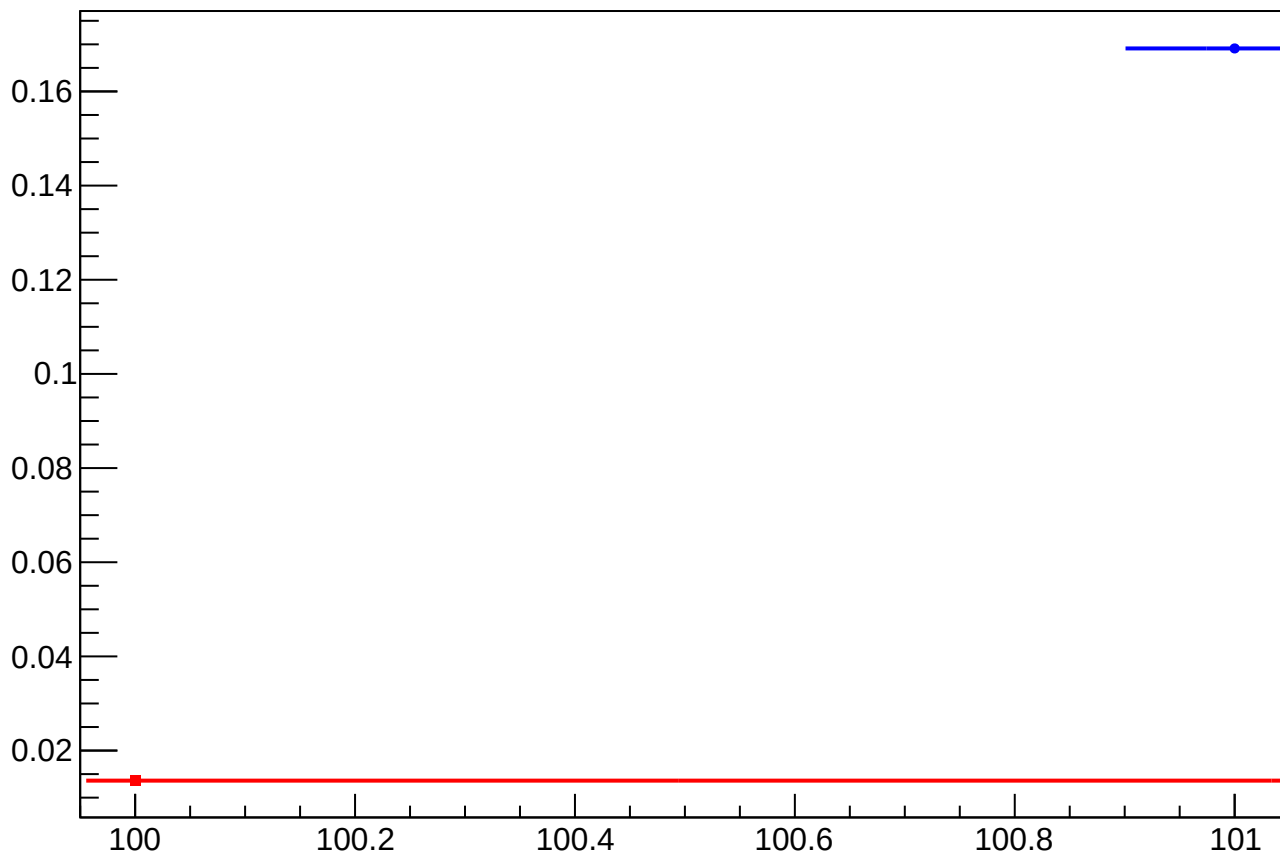
Right: 2.567+/-0.000  $\chi^2/\text{NDF}$ : 15893259509.0/1

In: 30.855+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.567+/-0.000  $\chi^2/\text{NDF}$ : 15893259509.0/1

# yield\_sam3\_rms vs Slug, Sign Corrected



Right In: 0.169 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

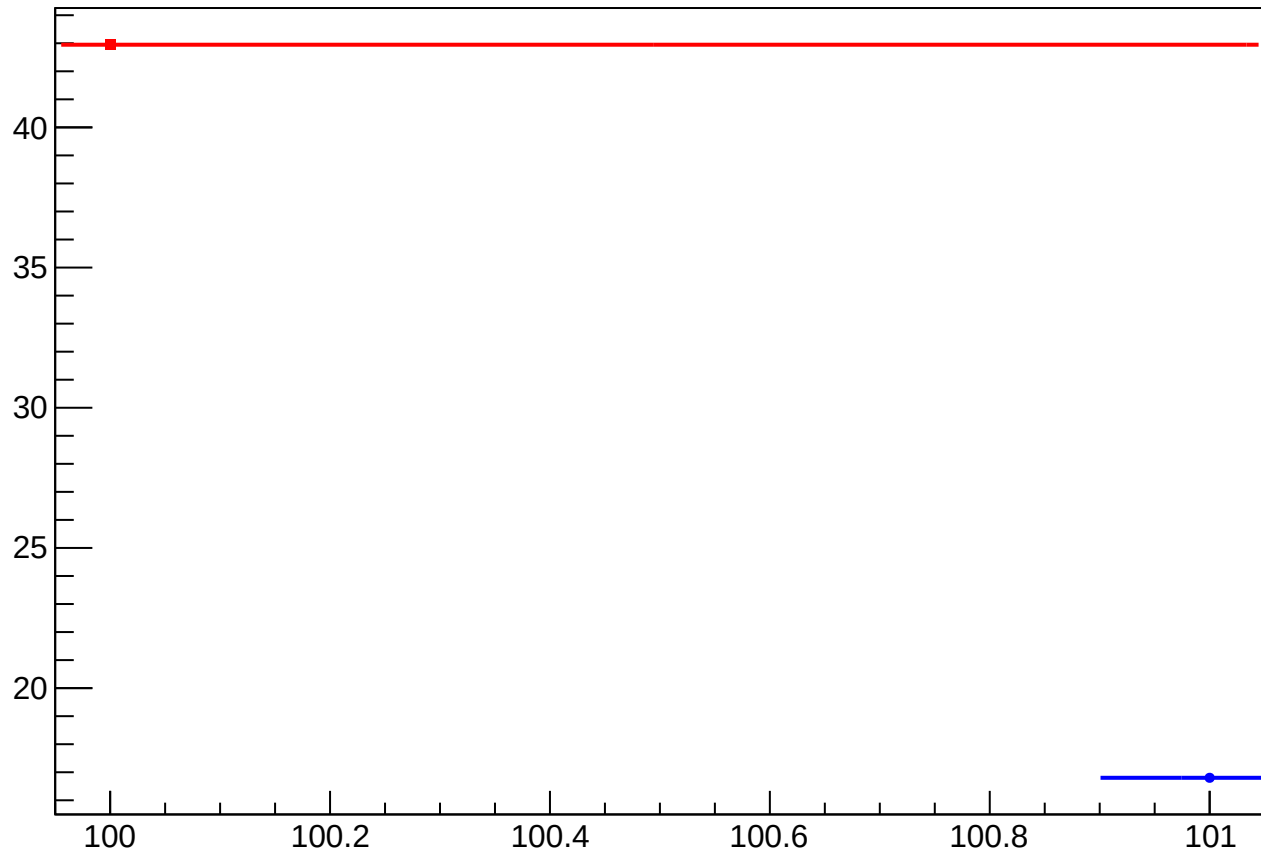
Right: 0.021 $\pm$ 0.000  $\chi^2$ /NDF: 873844.2/1

In: 0.169 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.021 $\pm$ 0.000  $\chi^2$ /NDF: 873844.2/1

# yield\_sam4\_mean vs Slug, Sign Corrected



Right In: 16.802 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 42.948 $\pm$ 0.002  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

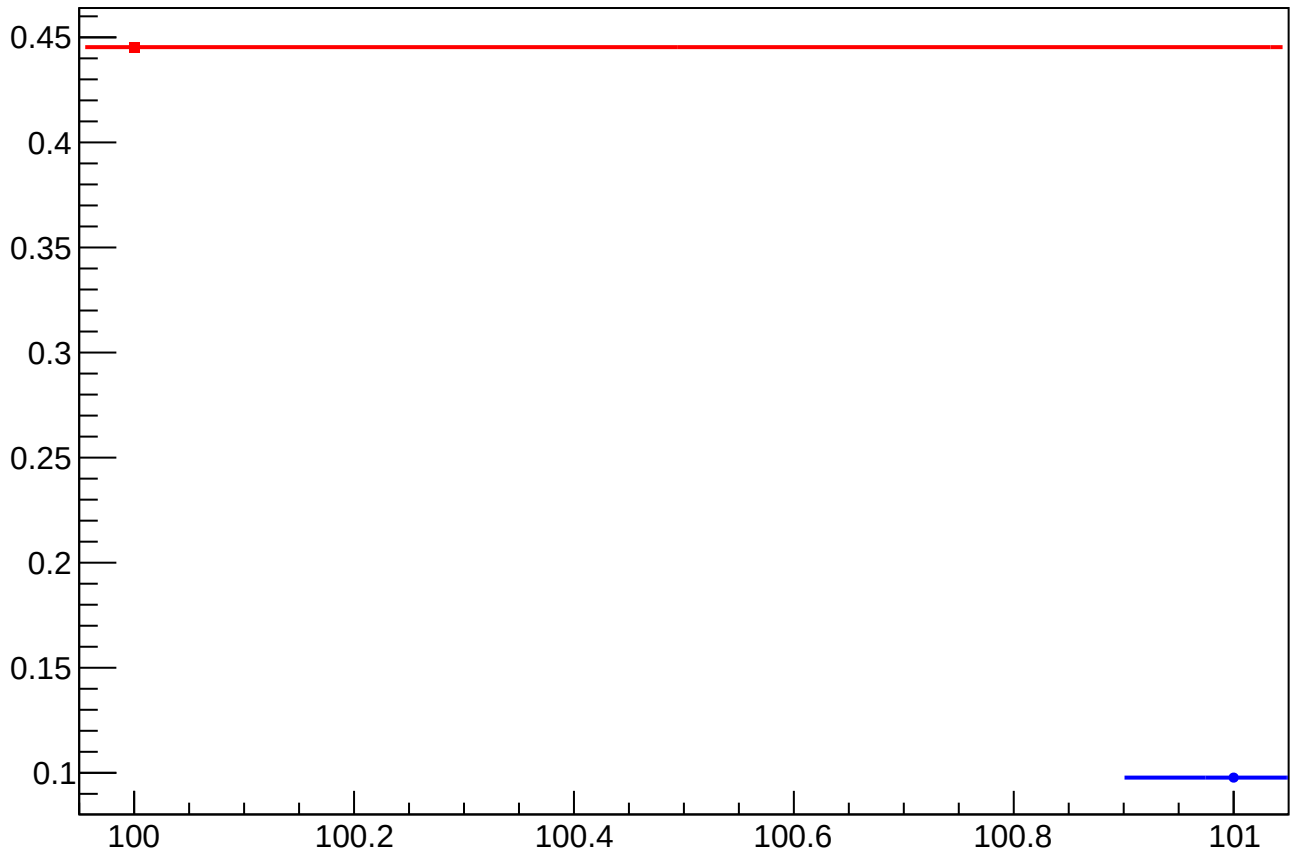
Right: 16.965 $\pm$ 0.000  $\chi^2$ /NDF: 247099754.2/1

In: 16.802 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.965 $\pm$ 0.000  $\chi^2$ /NDF: 247099754.2/1

# yield\_sam4\_rms vs Slug, Sign Corrected



Right In: 0.098 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.445 $\pm$ 0.001  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

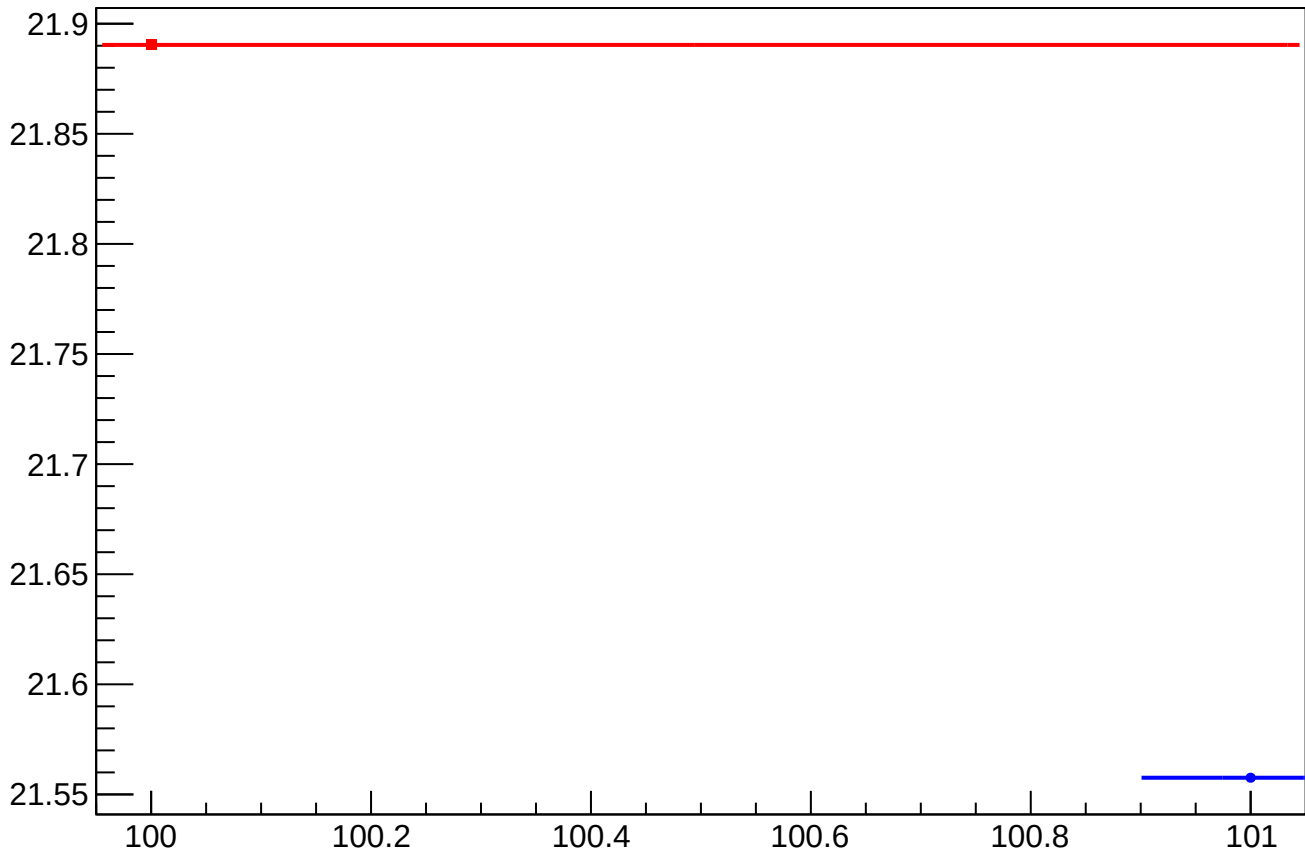
Right: 0.100 $\pm$ 0.000  $\chi^2$ /NDF: 87354.0/1

In: 0.098 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.100 $\pm$ 0.000  $\chi^2$ /NDF: 87354.0/1

# yield\_sam5\_mean vs Slug, Sign Corrected



Right In: 21.558 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.890 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

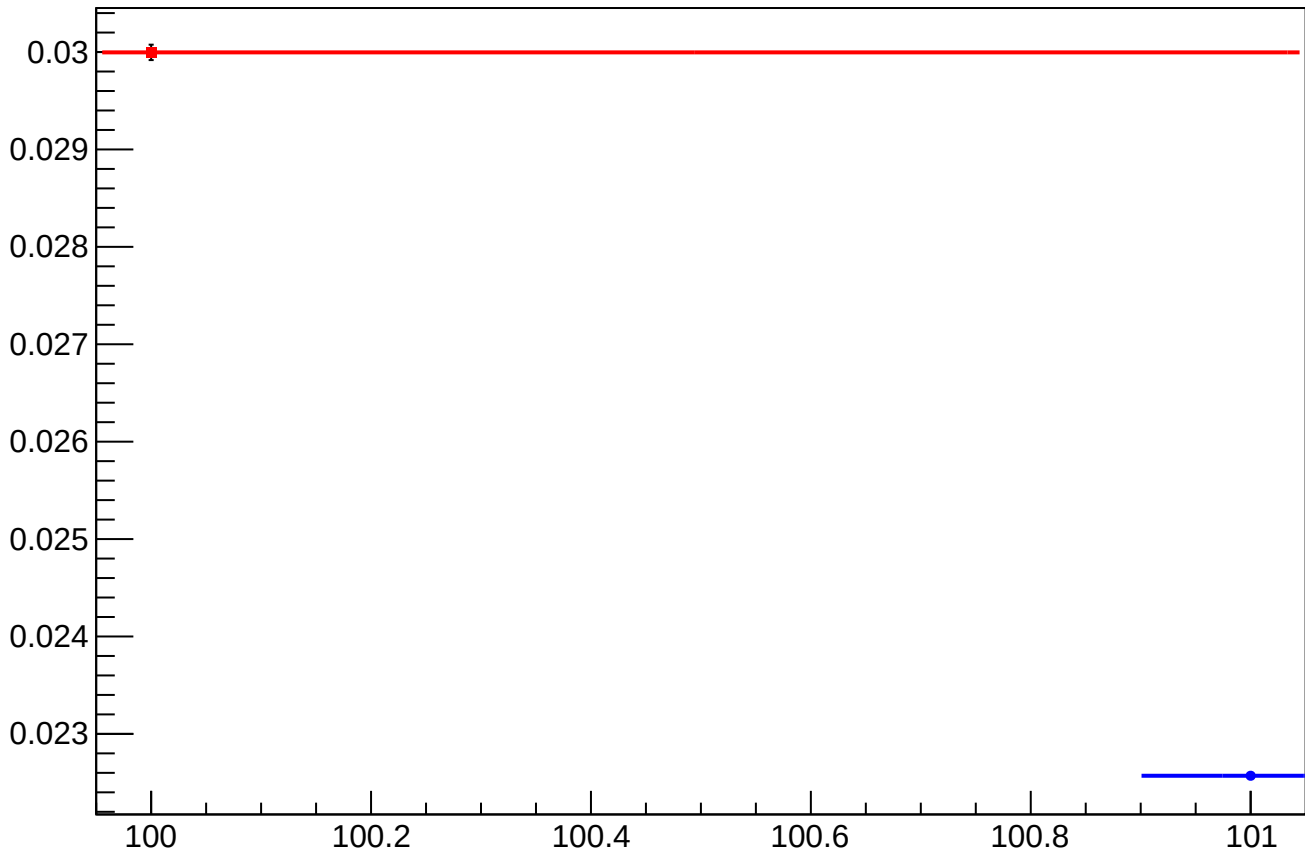
Right: 21.579 $\pm$ 0.000  $\chi^2$ /NDF: 8271615.3/1

In: 21.558 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 21.579 $\pm$ 0.000  $\chi^2$ /NDF: 8271615.3/1

# yield\_sam5\_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.030+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 8238.4/1

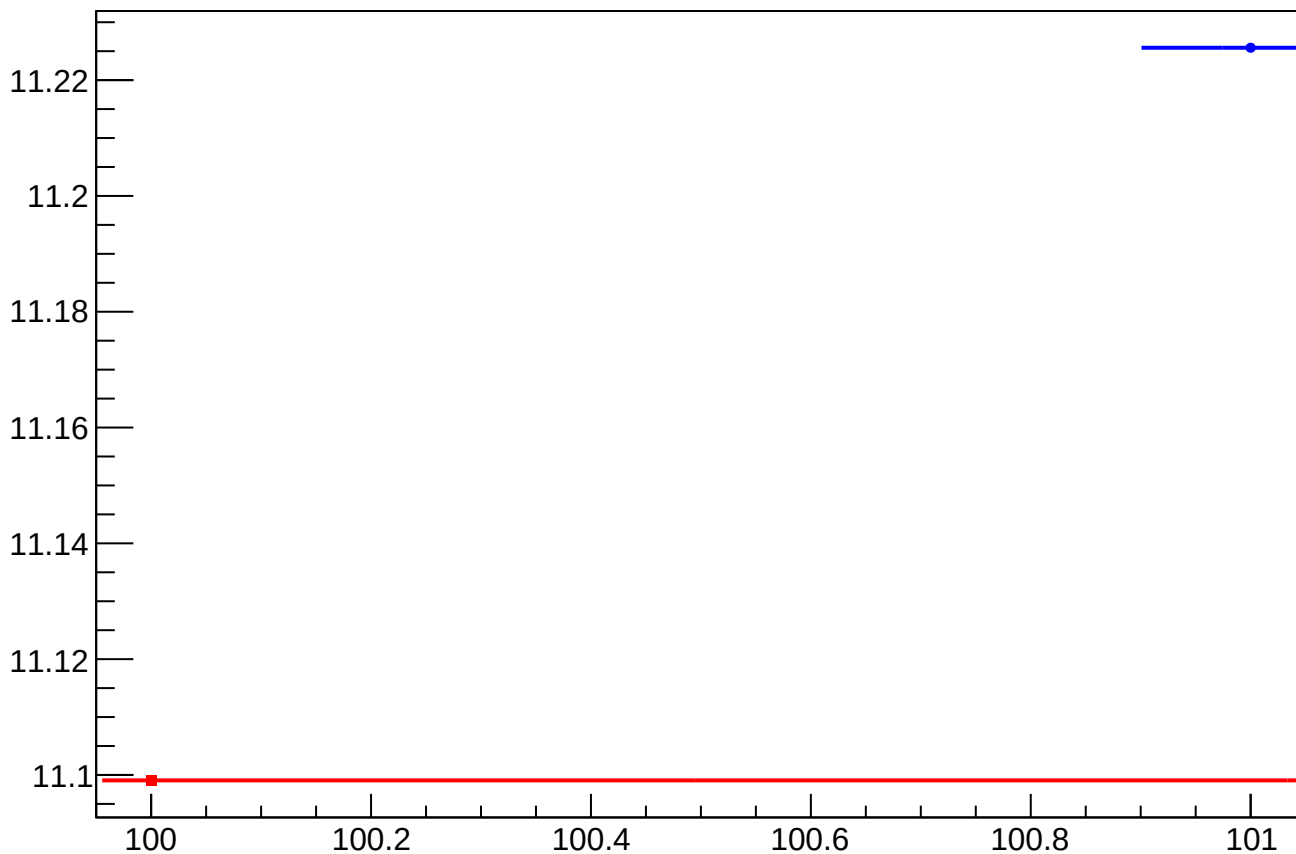
In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 8238.4/1



# yield\_sam6\_mean vs Slug, Sign Corrected



Right In: 11.226+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.099+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

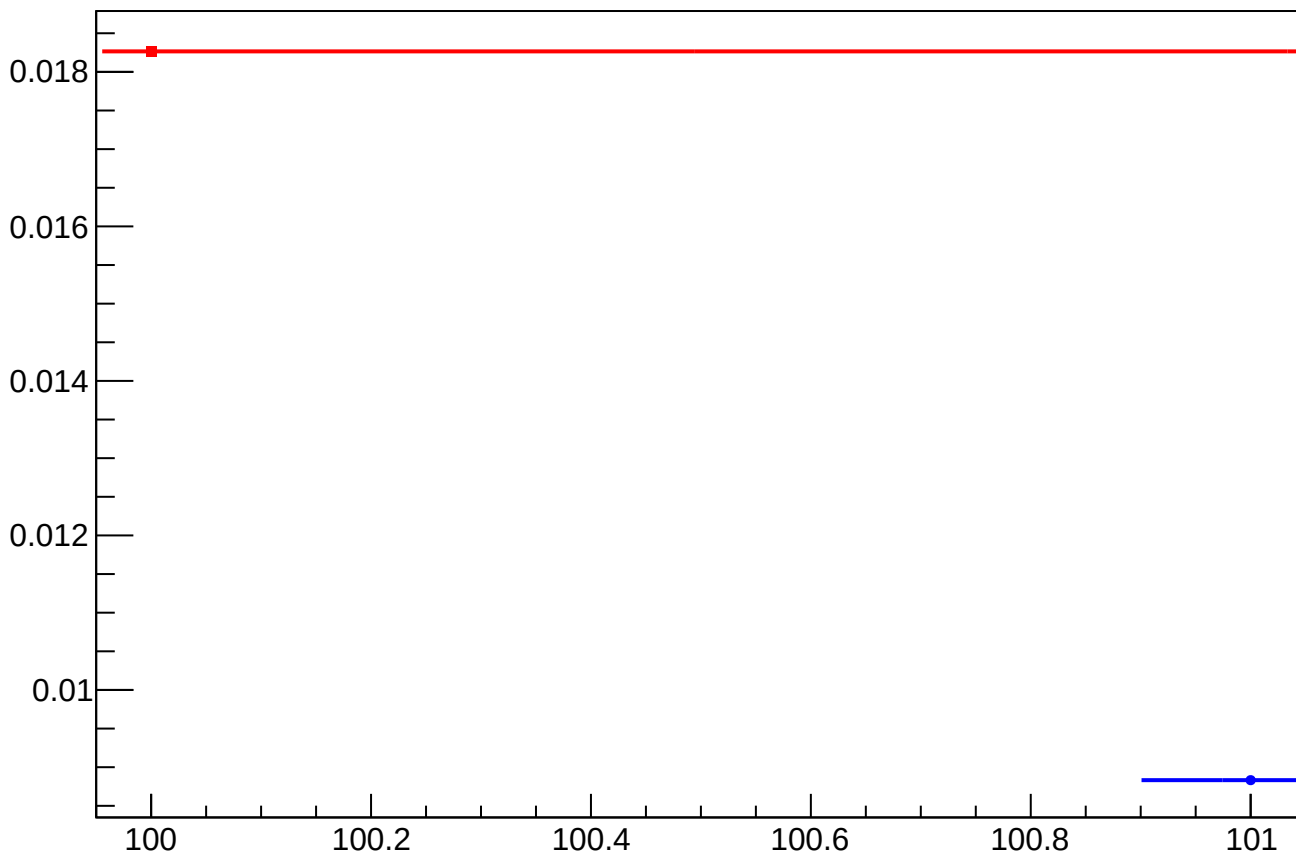
Right: 11.222+/-0.000  $\chi^2/\text{NDF}$ : 3368438.1/1

In: 11.226+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.222+/-0.000  $\chi^2/\text{NDF}$ : 3368438.1/1

# yield\_sam6\_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

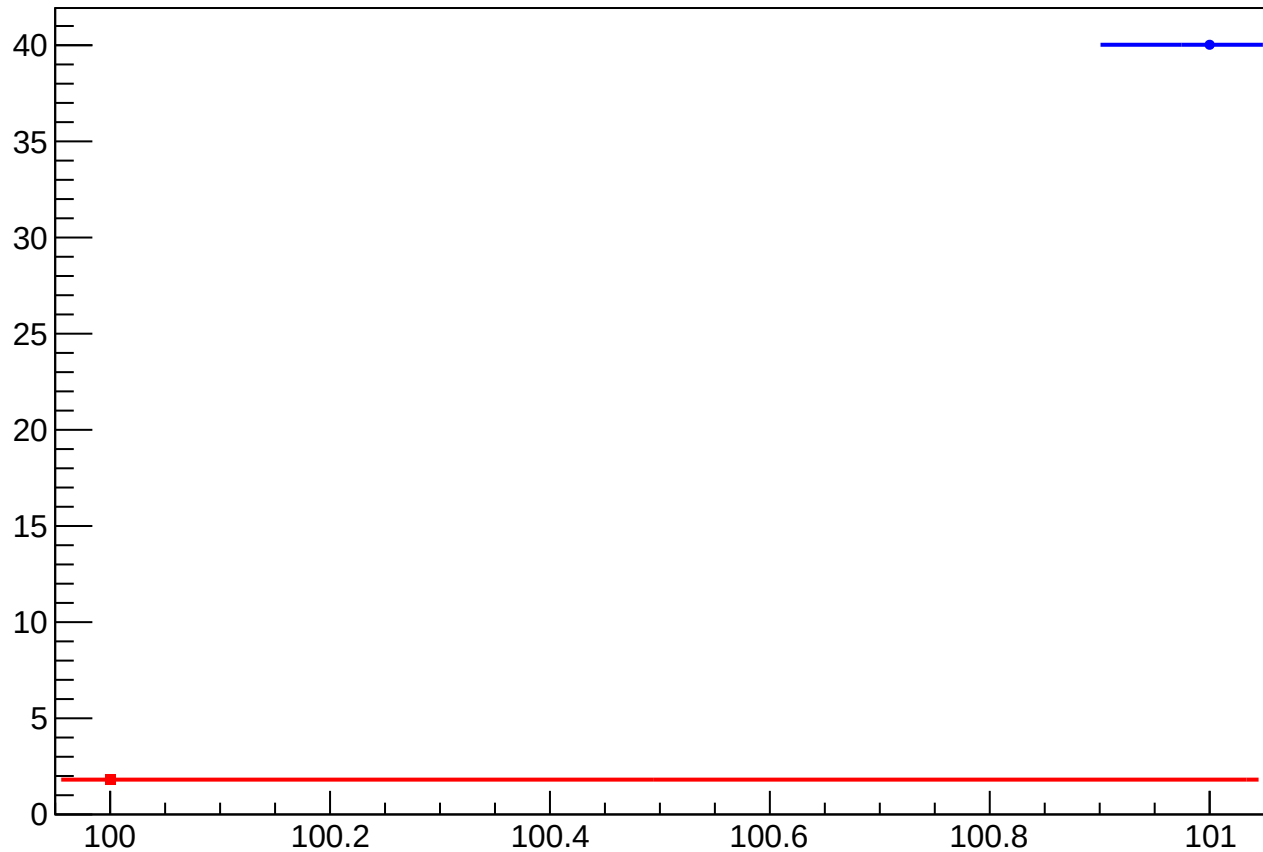
Right: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 37440.6/1

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 37440.6/1

# yield\_sam7\_mean vs Slug, Sign Corrected



Right In: 40.024+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.811+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

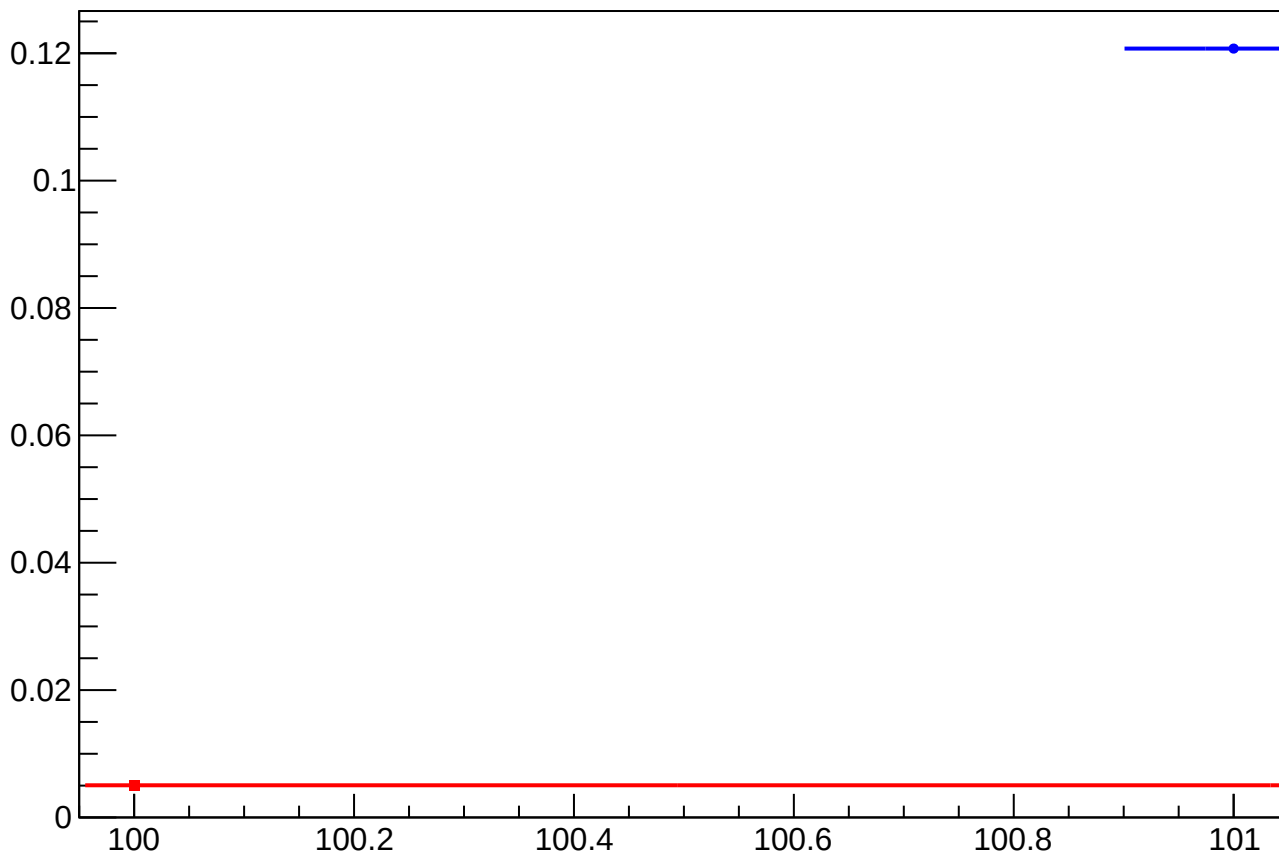
Right: 2.388+/-0.000  $\chi^2/\text{NDF}$ : 61649694798.3/1

In: 40.024+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.388+/-0.000  $\chi^2/\text{NDF}$ : 61649694798.3/1

# yield\_sam7\_rms vs Slug, Sign Corrected



Right In: 0.121+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

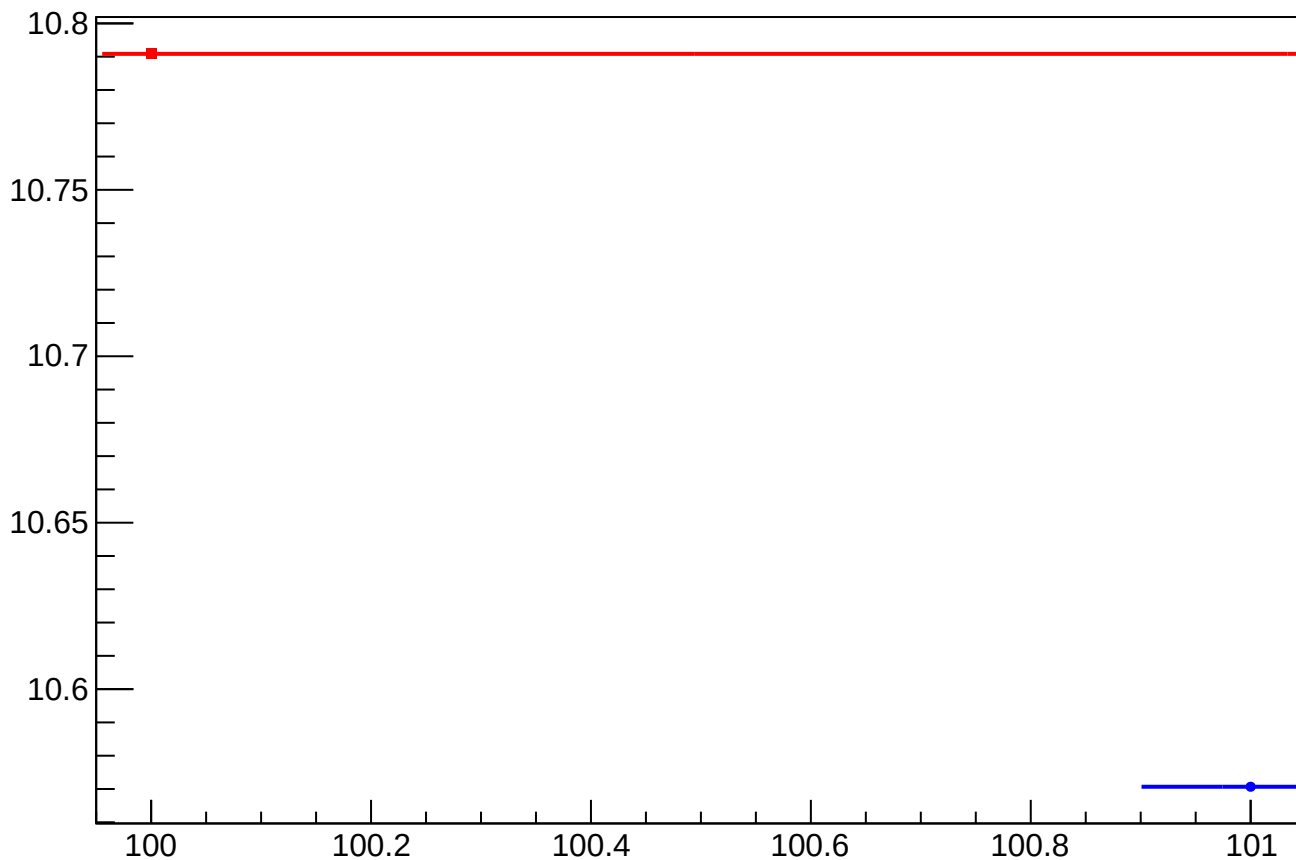
Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1130033.9/1

In: 0.121+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1130033.9/1

# yield\_sam8\_mean vs Slug, Sign Corrected



Right In: 10.571+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.791+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

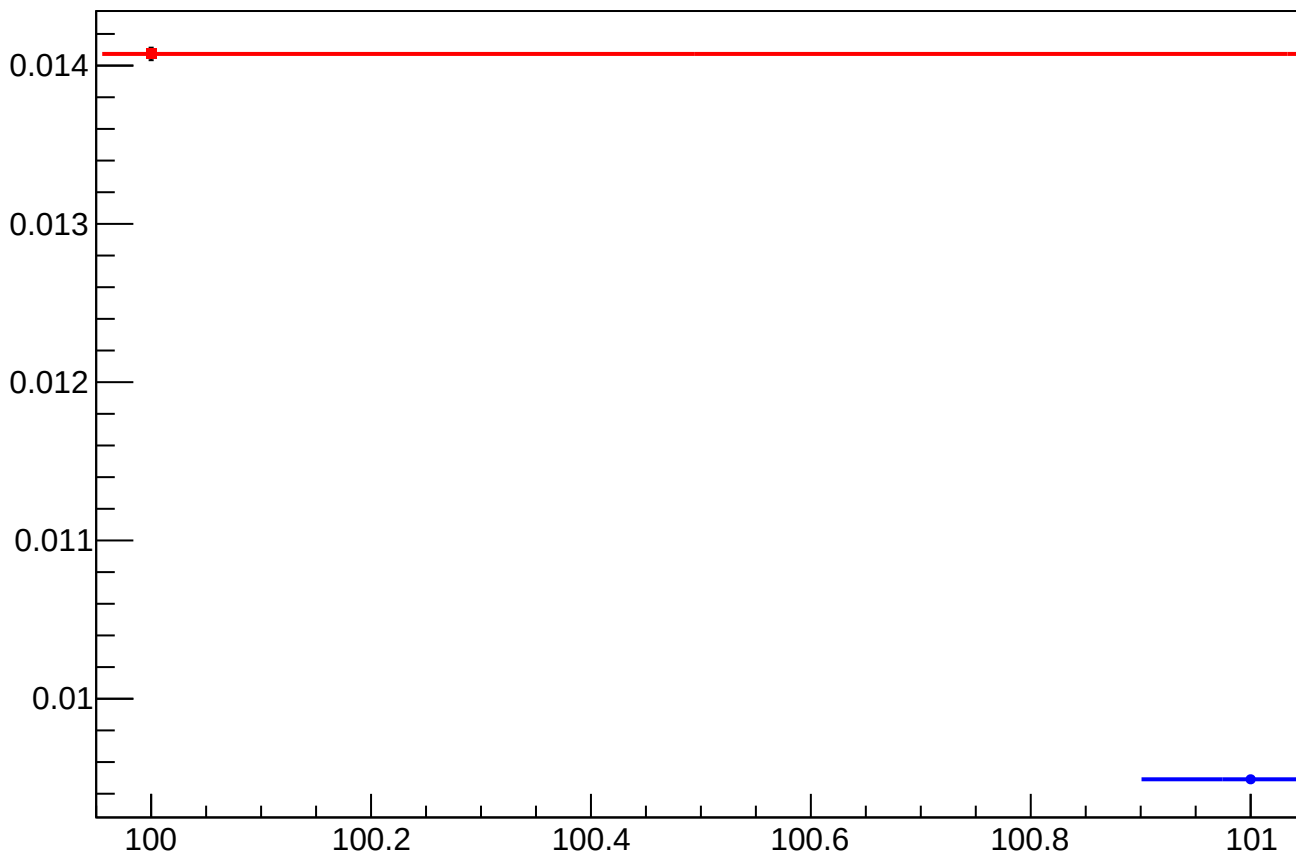
Right: 10.583+/-0.000  $\chi^2/\text{NDF}$ : 14666206.4/1

In: 10.571+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.583+/-0.000  $\chi^2/\text{NDF}$ : 14666206.4/1

# yield\_sam8\_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

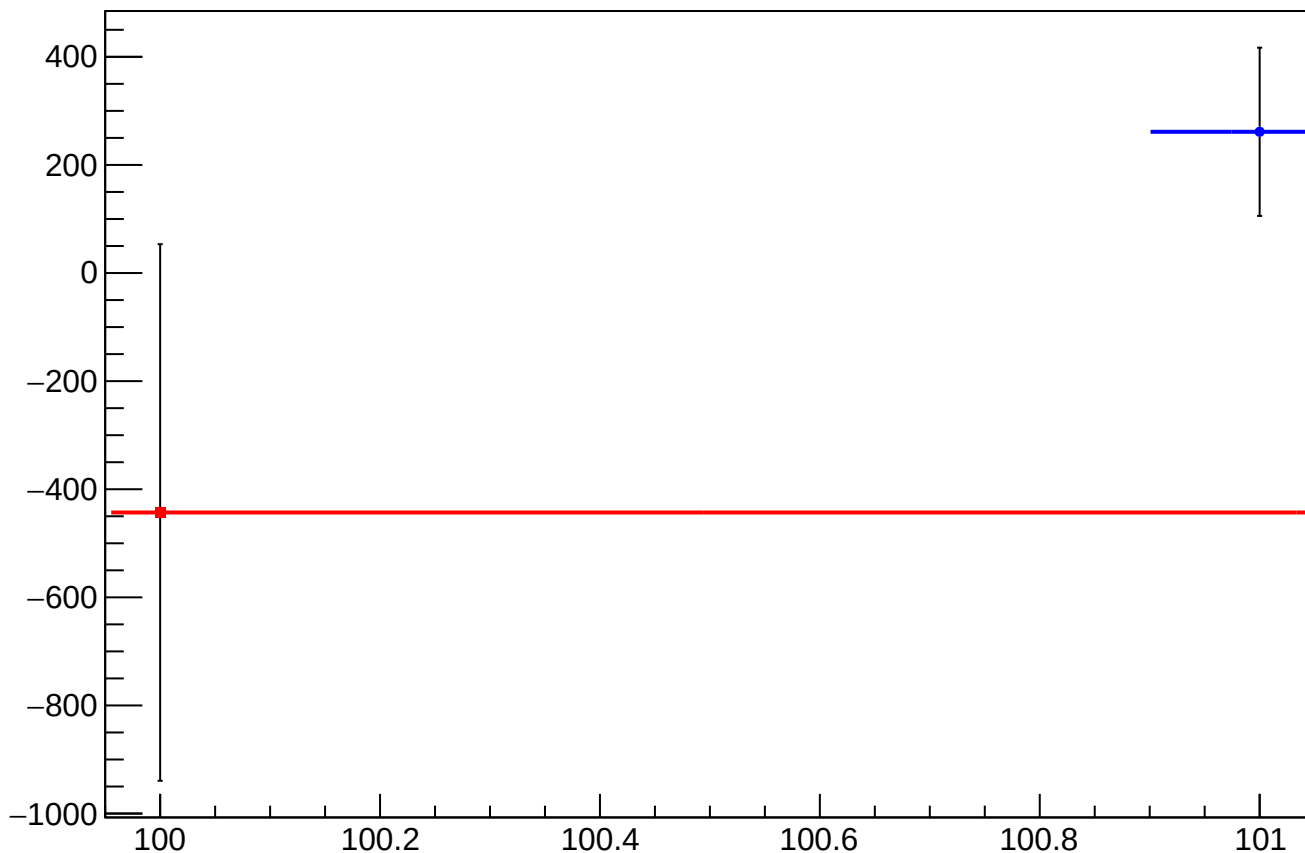
Right: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 12706.7/1

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 12706.7/1

# reg\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 261.305+/-155.640  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -443.009+/-496.400  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

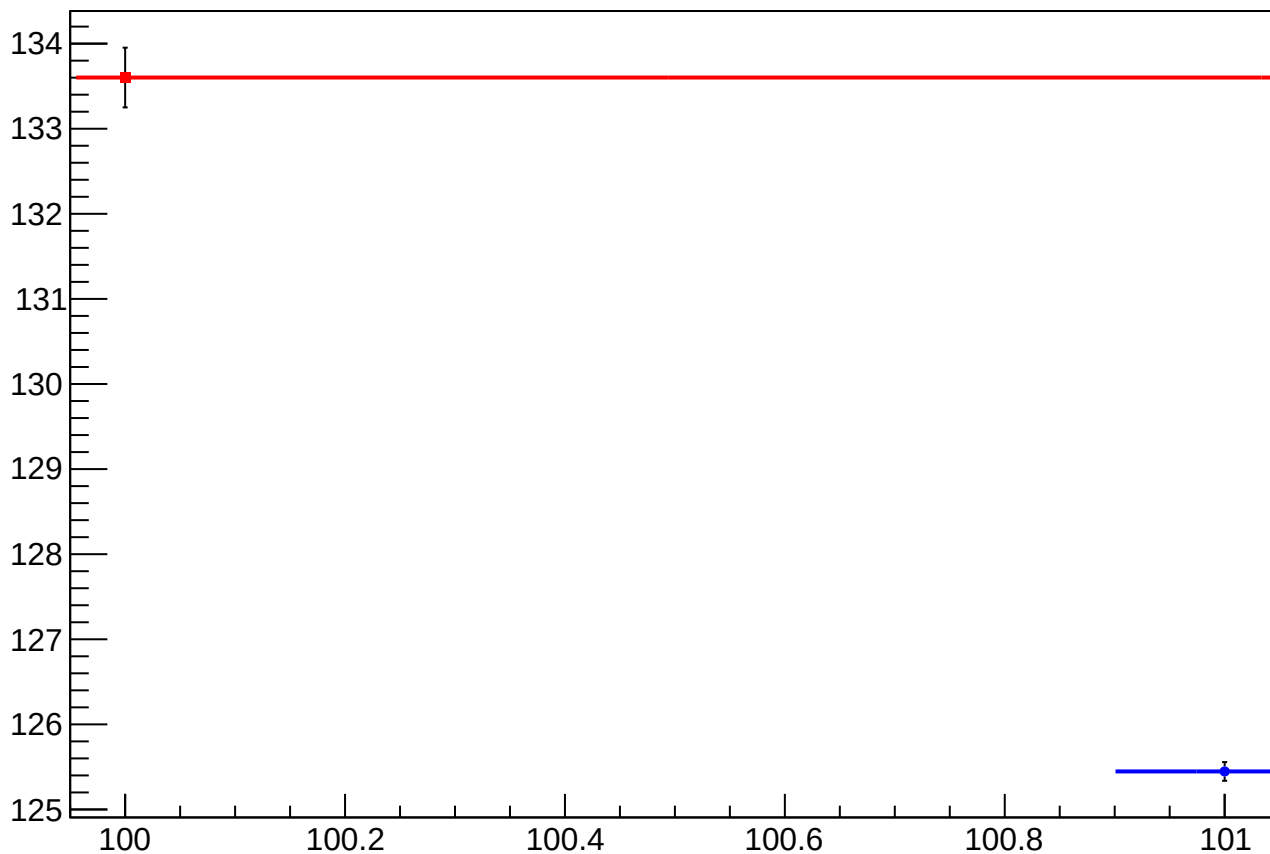
Right: 198.264+/-148.511  $\chi^2/\text{NDF}$ : 1.8/1

In: 261.305+/-155.640  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 198.264+/-148.511  $\chi^2/\text{NDF}$ : 1.8/1

# reg\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 125.447 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 133.601 $\pm$ 0.351  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 126.177 $\pm$ 0.105  $\chi^2$ /NDF: 491.4/1

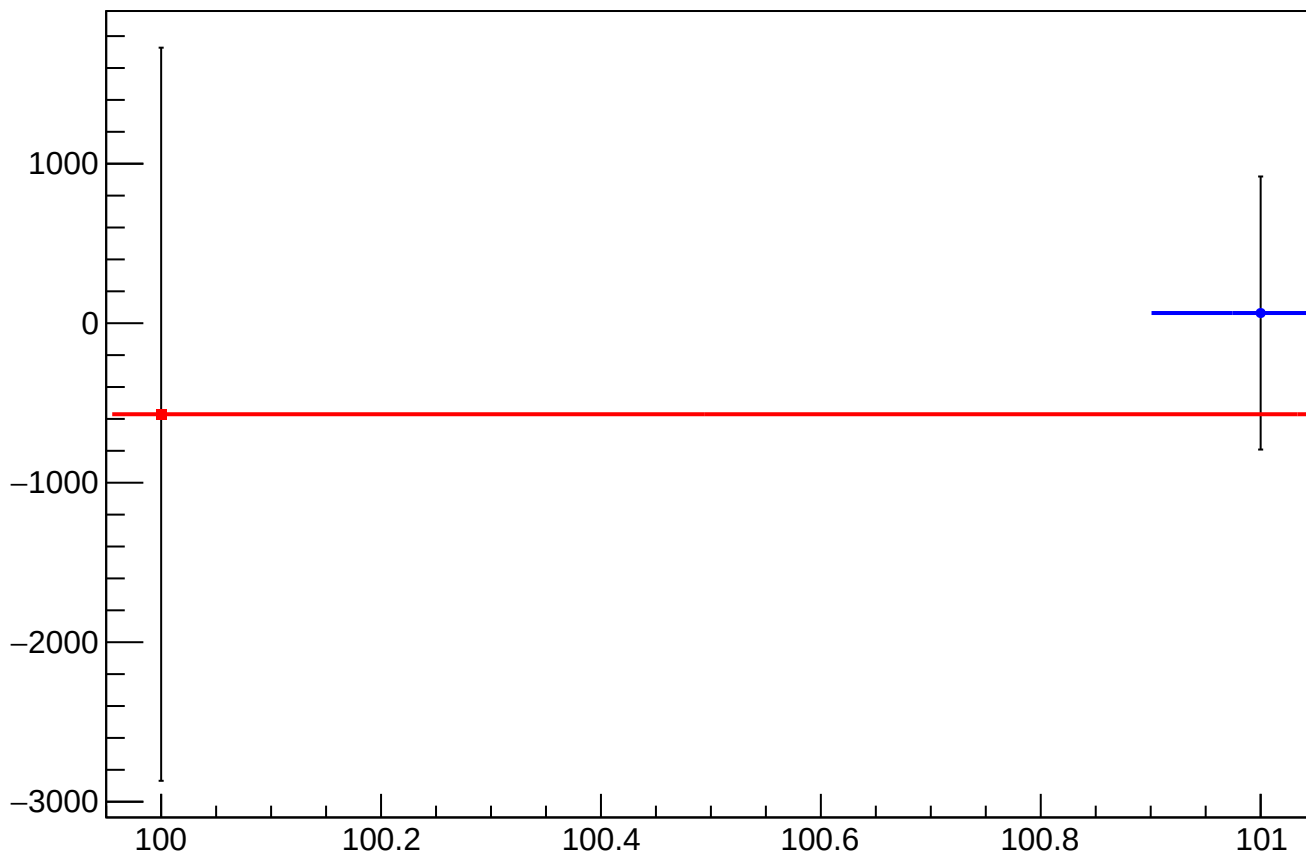
In: 125.447 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 126.177 $\pm$ 0.105  $\chi^2$ /NDF: 491.4/1



asym\_sam1\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 63.908+/-855.954  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -570.674+/-2298.168  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

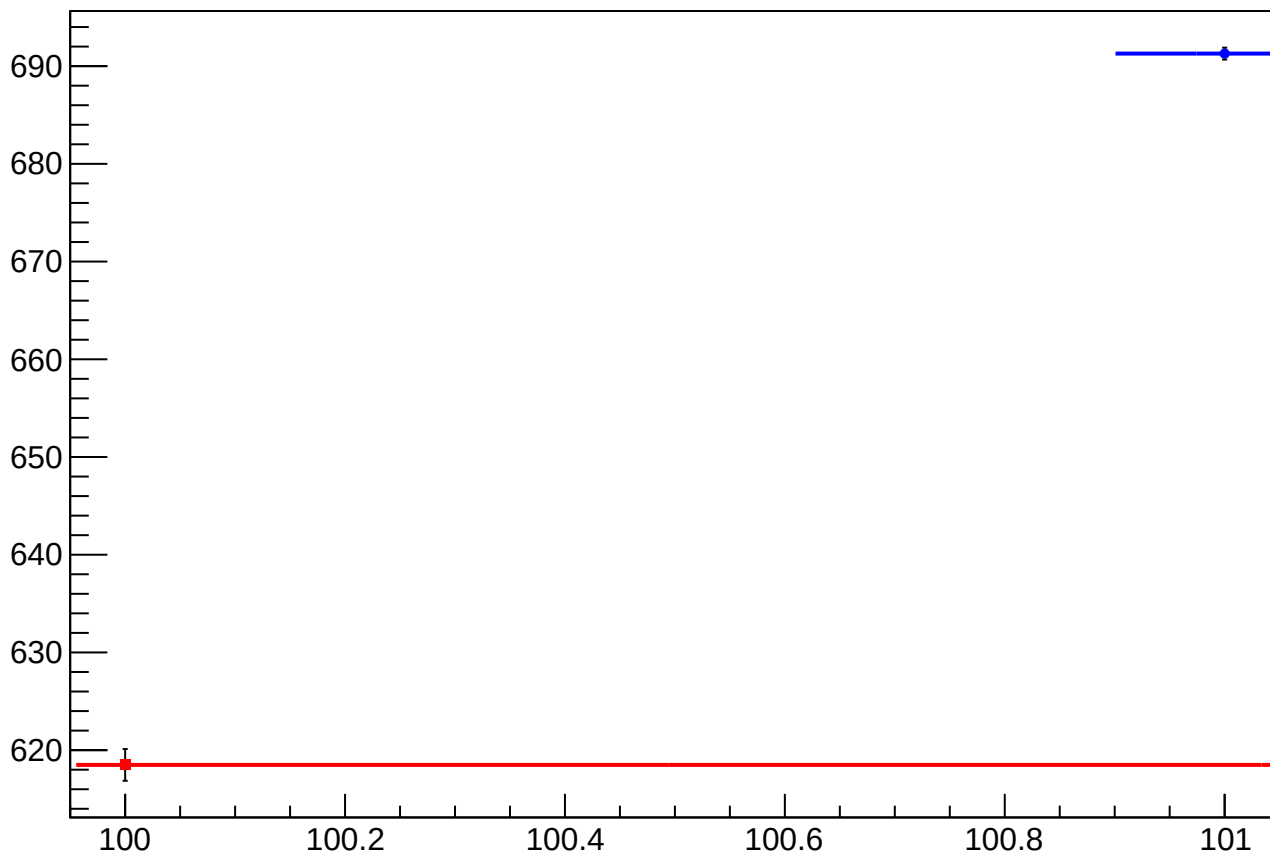
Right: -13.397+/-802.125  $\chi^2/\text{NDF}$ : 0.1/1

In: 63.908+/-855.954  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.397+/-802.125  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam1\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 691.284+/-0.605  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 618.490+/-1.625  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

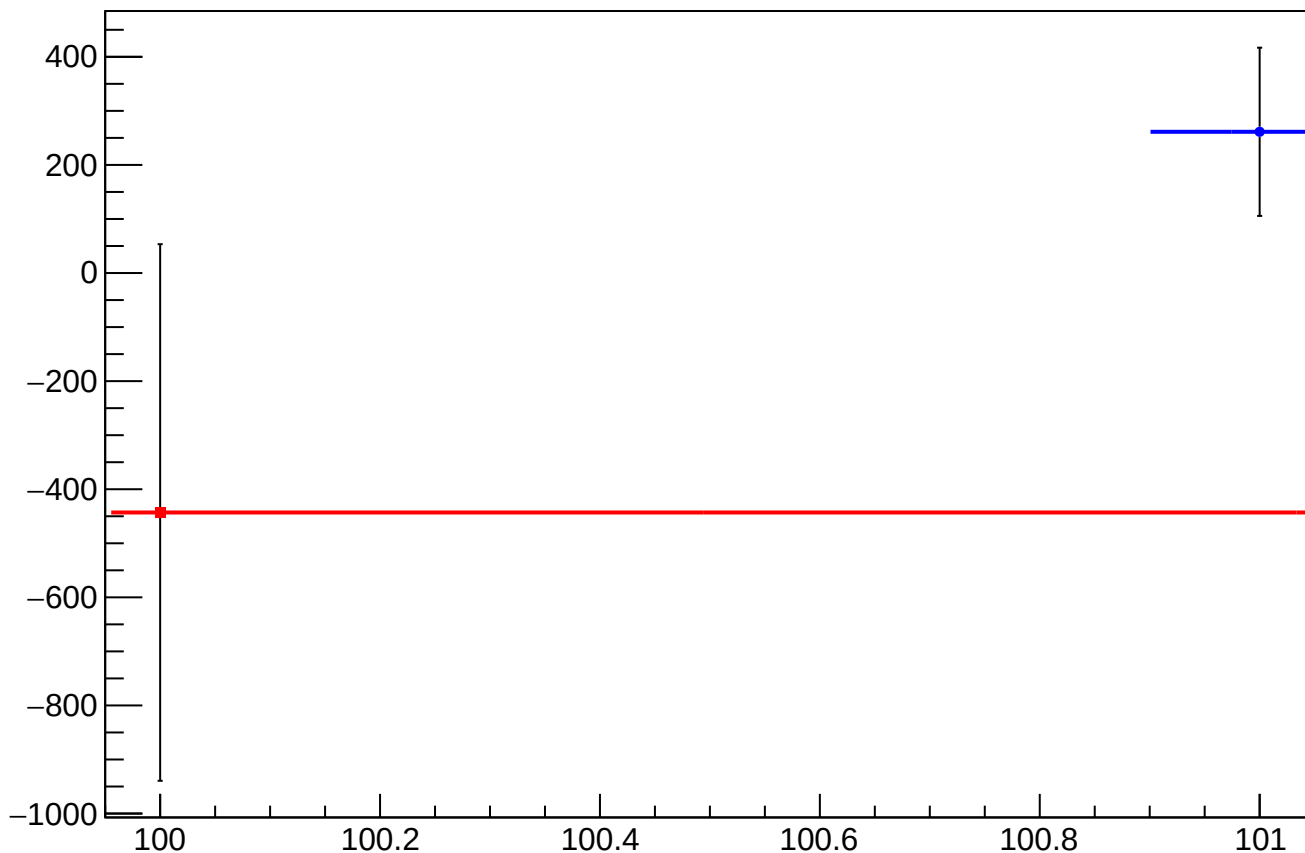
Right: 682.416+/-0.567  $\chi^2/\text{NDF}$ : 1762.2/1

In: 691.284+/-0.605  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 682.416+/-0.567  $\chi^2/\text{NDF}$ : 1762.2/1

# cor\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 261.289 $\pm$ 155.640  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -443.013 $\pm$ 496.400  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

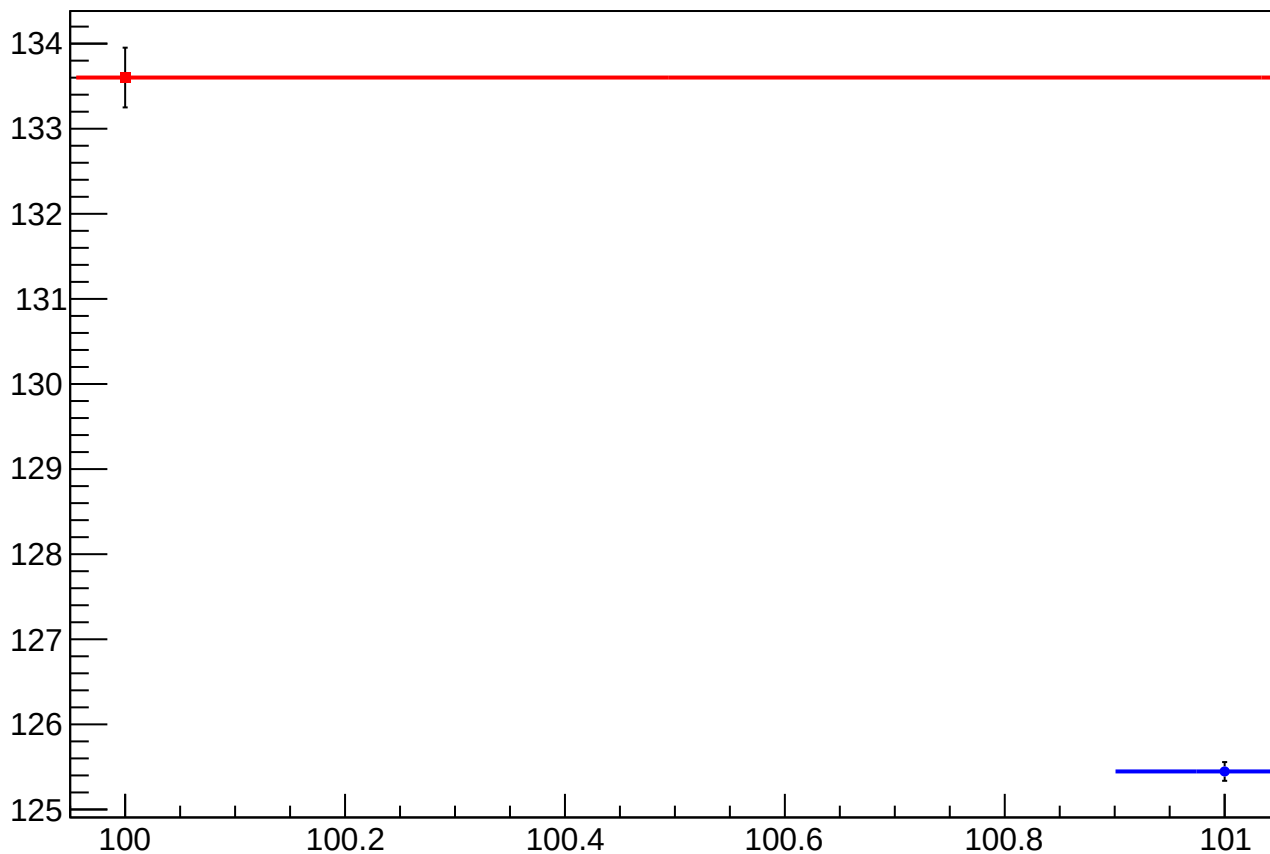
Right: 198.249 $\pm$ 148.511  $\chi^2$ /NDF: 1.8/1

In: 261.289 $\pm$ 155.640  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 198.249 $\pm$ 148.511  $\chi^2$ /NDF: 1.8/1

# cor\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 125.447 $\pm$ 0.110  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 133.601 $\pm$ 0.351  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

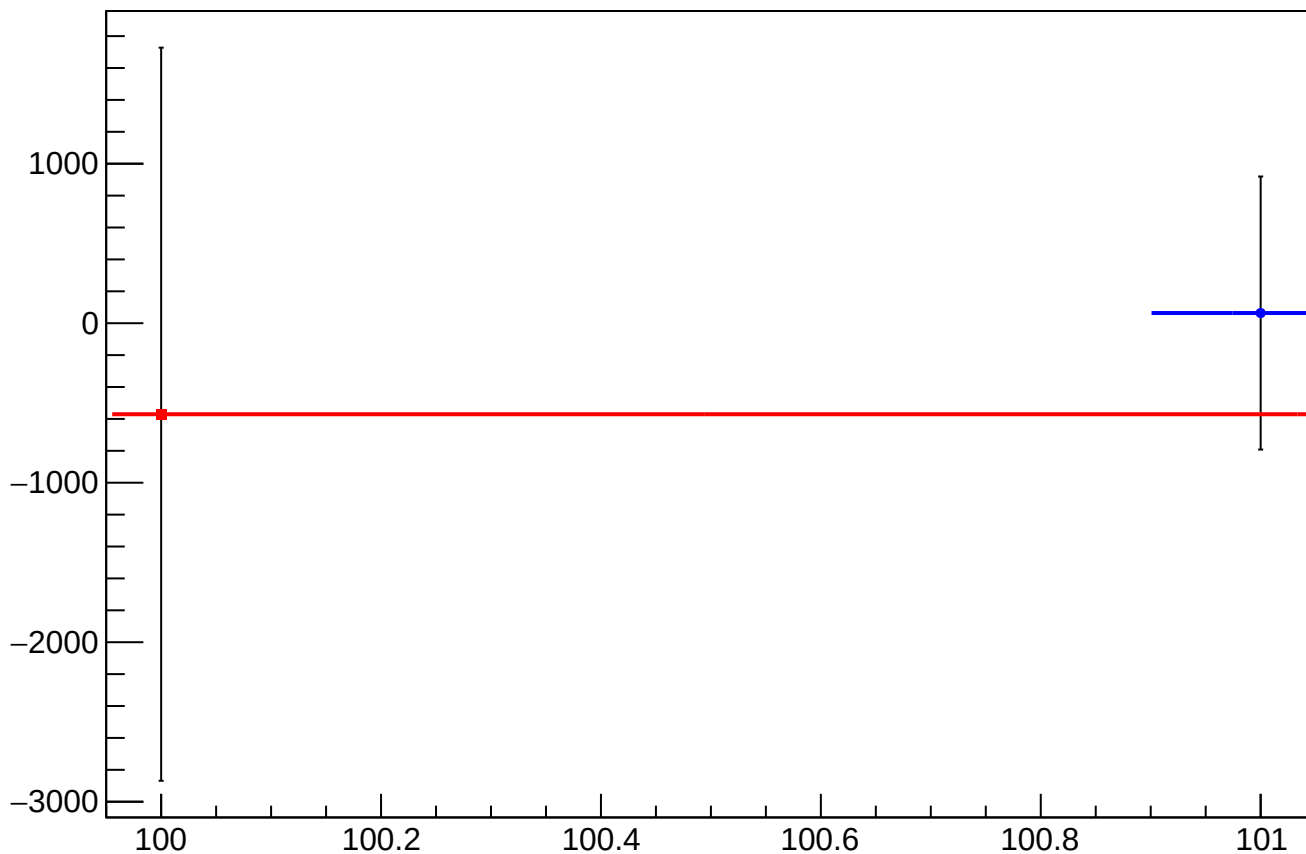
Right: 126.177 $\pm$ 0.105  $\chi^2/\text{NDF}$ : 491.4/1

In: 125.447 $\pm$ 0.110  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.177 $\pm$ 0.105  $\chi^2/\text{NDF}$ : 491.4/1

asym\_sam1\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 63.914+/-855.956  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -570.667+/-2298.167  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

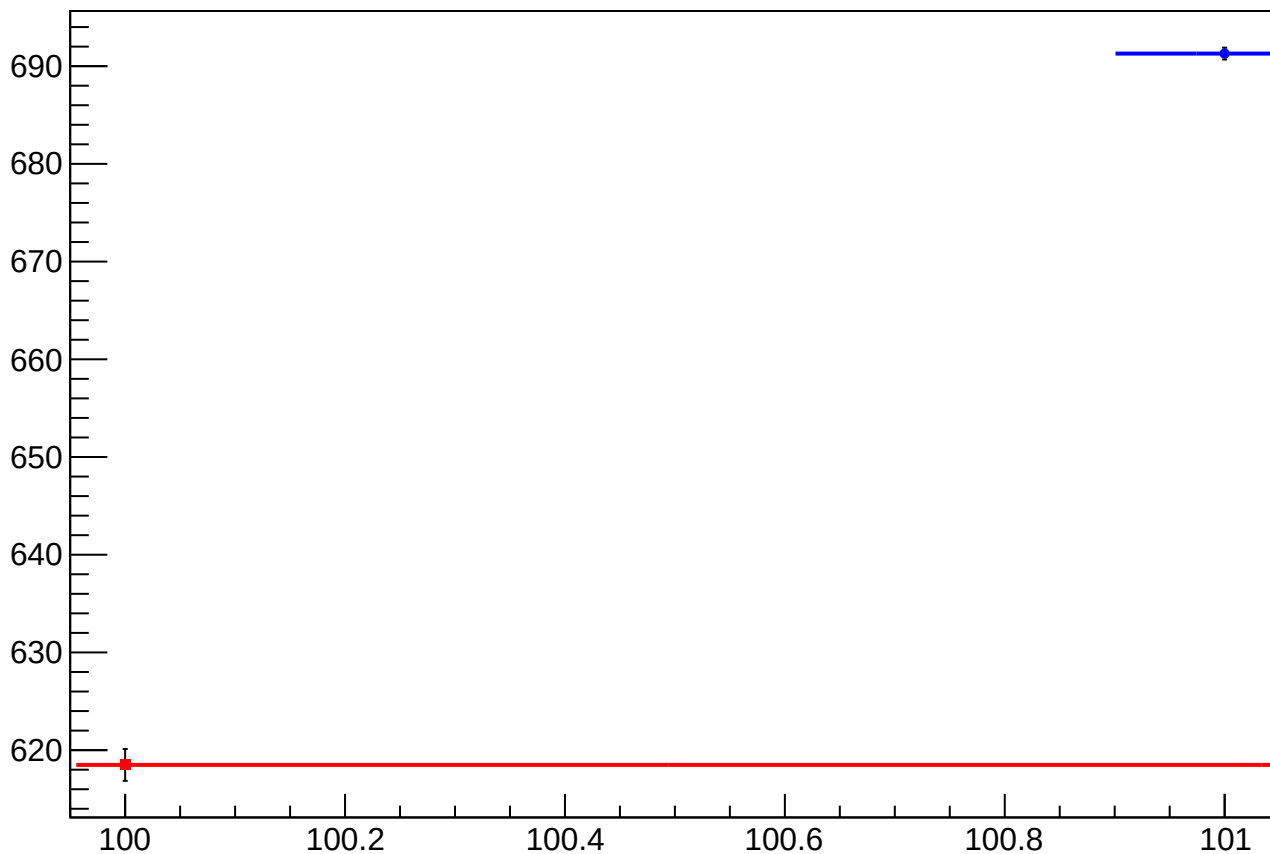
Right: -13.391+/-802.126  $\chi^2/\text{NDF}$ : 0.1/1

In: 63.914+/-855.956  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.391+/-802.126  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam1\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 691.286 $\pm$ 0.605  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 618.489 $\pm$ 1.625  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

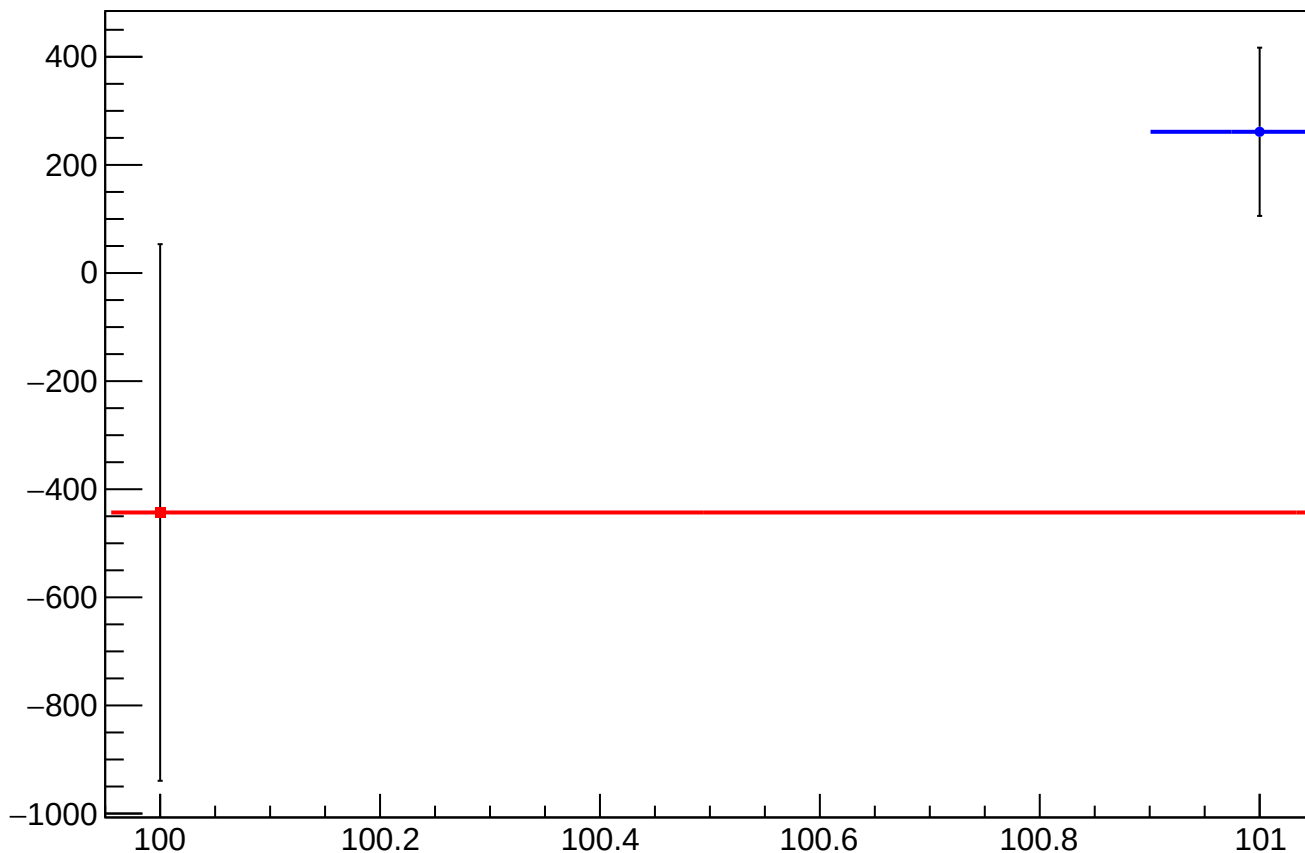
Right: 682.418 $\pm$ 0.567  $\chi^2$ /NDF: 1762.3/1

In: 691.286 $\pm$ 0.605  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 682.418 $\pm$ 0.567  $\chi^2$ /NDF: 1762.3/1

eigen\_cor\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 261.289+/-155.640  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -443.013+/-496.400  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

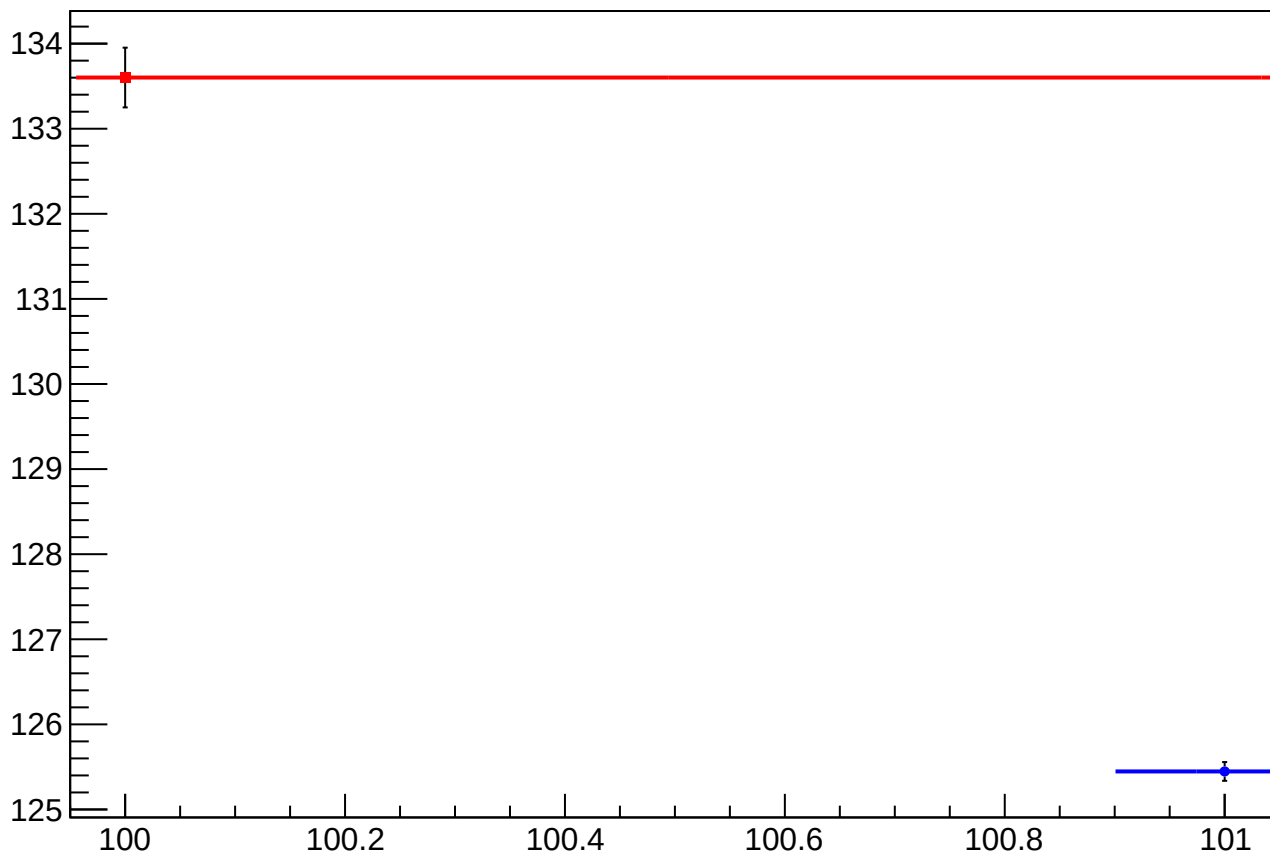
Right: 198.249+/-148.511  $\chi^2$ /NDF: 1.8/1

In: 261.289+/-155.640  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 198.249+/-148.511  $\chi^2$ /NDF: 1.8/1

# eigen\_cor\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 125.447 $\pm$ 0.110  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 133.601 $\pm$ 0.351  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 126.177 $\pm$ 0.105  $\chi^2$ /NDF: 491.4/1

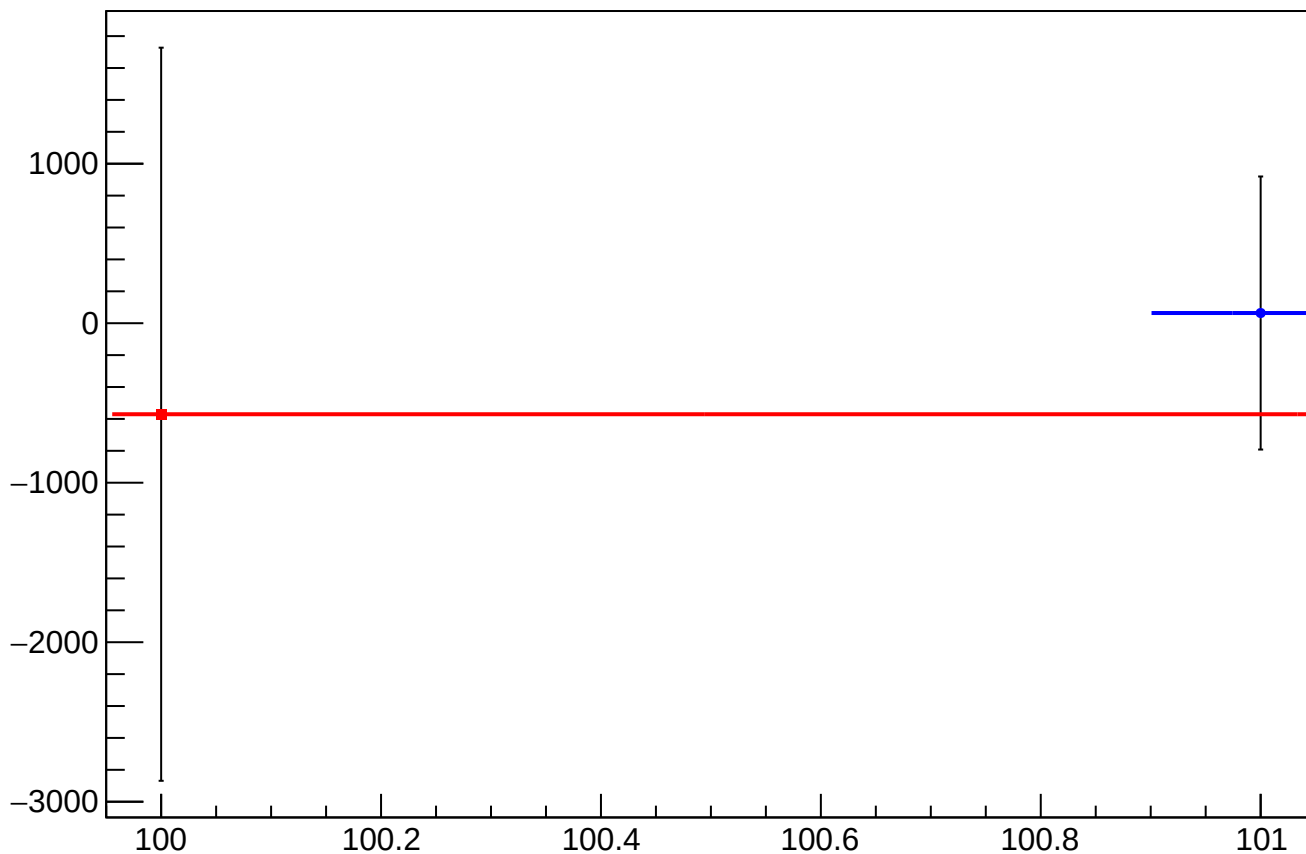
In: 125.447 $\pm$ 0.110  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 126.177 $\pm$ 0.105  $\chi^2$ /NDF: 491.4/1



asym\_sam1\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 63.914+/-855.956  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -570.667+/-2298.167  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

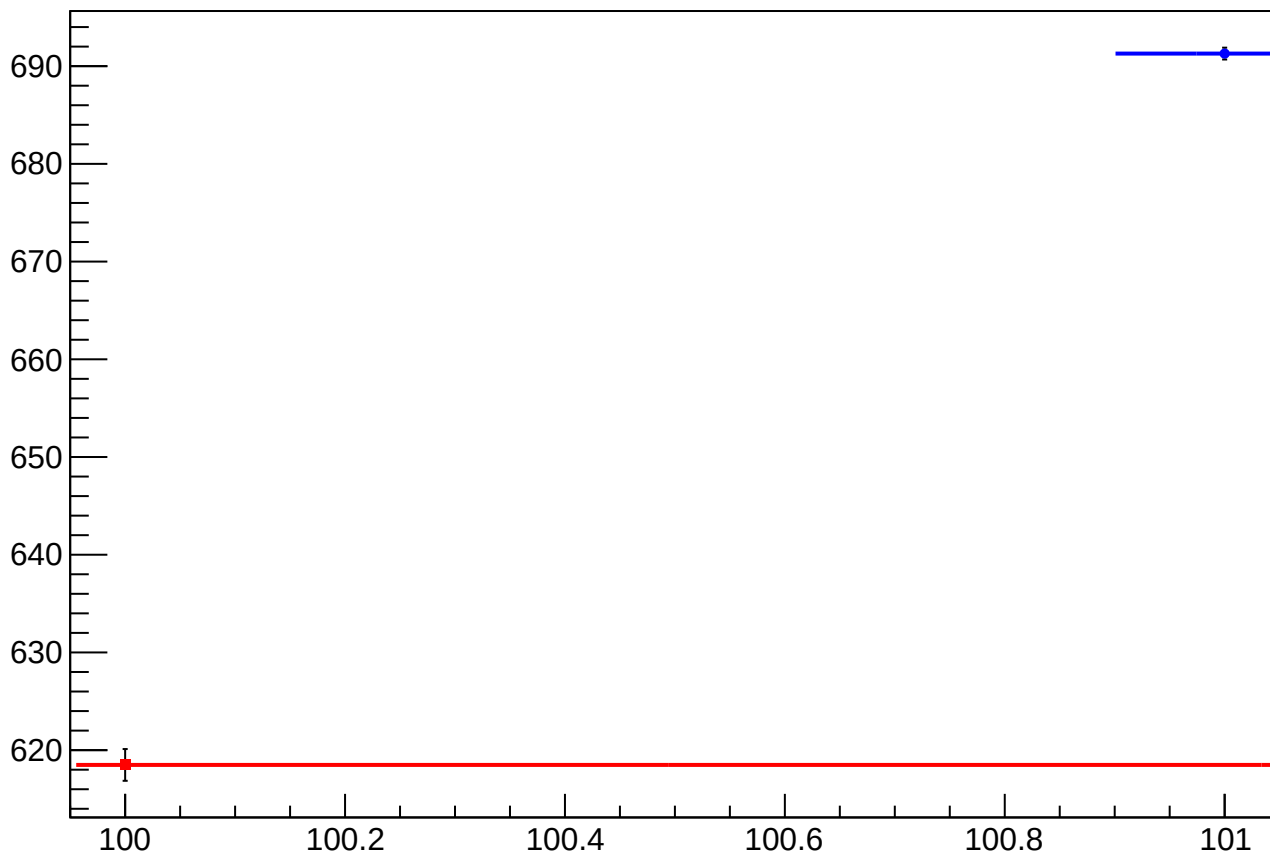
Right: -13.391+/-802.126  $\chi^2/\text{NDF}$ : 0.1/1

In: 63.914+/-855.956  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.391+/-802.126  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam1\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 691.286+/-0.605  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 618.489+/-1.625  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

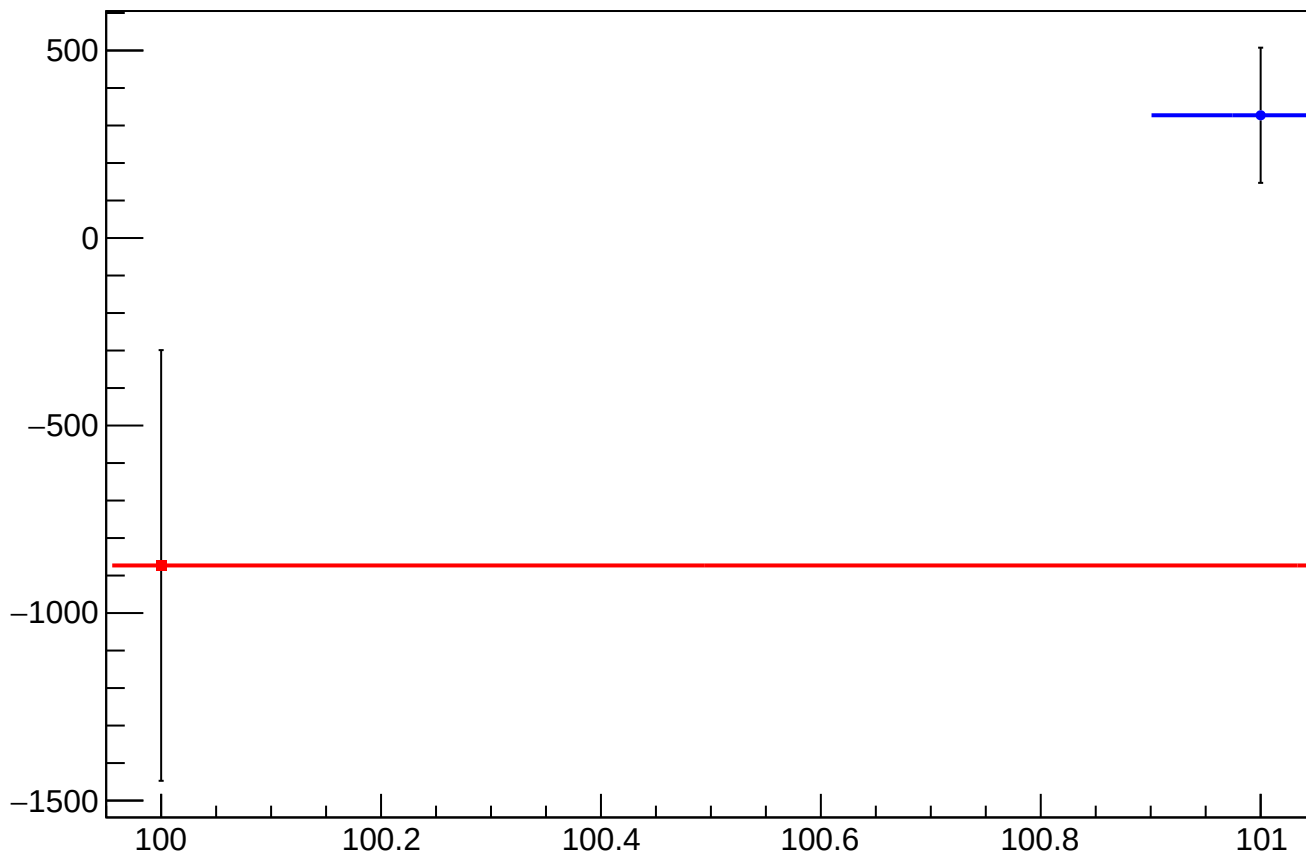
Right: 682.418+/-0.567  $\chi^2/\text{NDF}$ : 1762.3/1

In: 691.286+/-0.605  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 682.418+/-0.567  $\chi^2/\text{NDF}$ : 1762.3/1

# dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 327.303+/-180.239  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -873.094+/-574.195  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

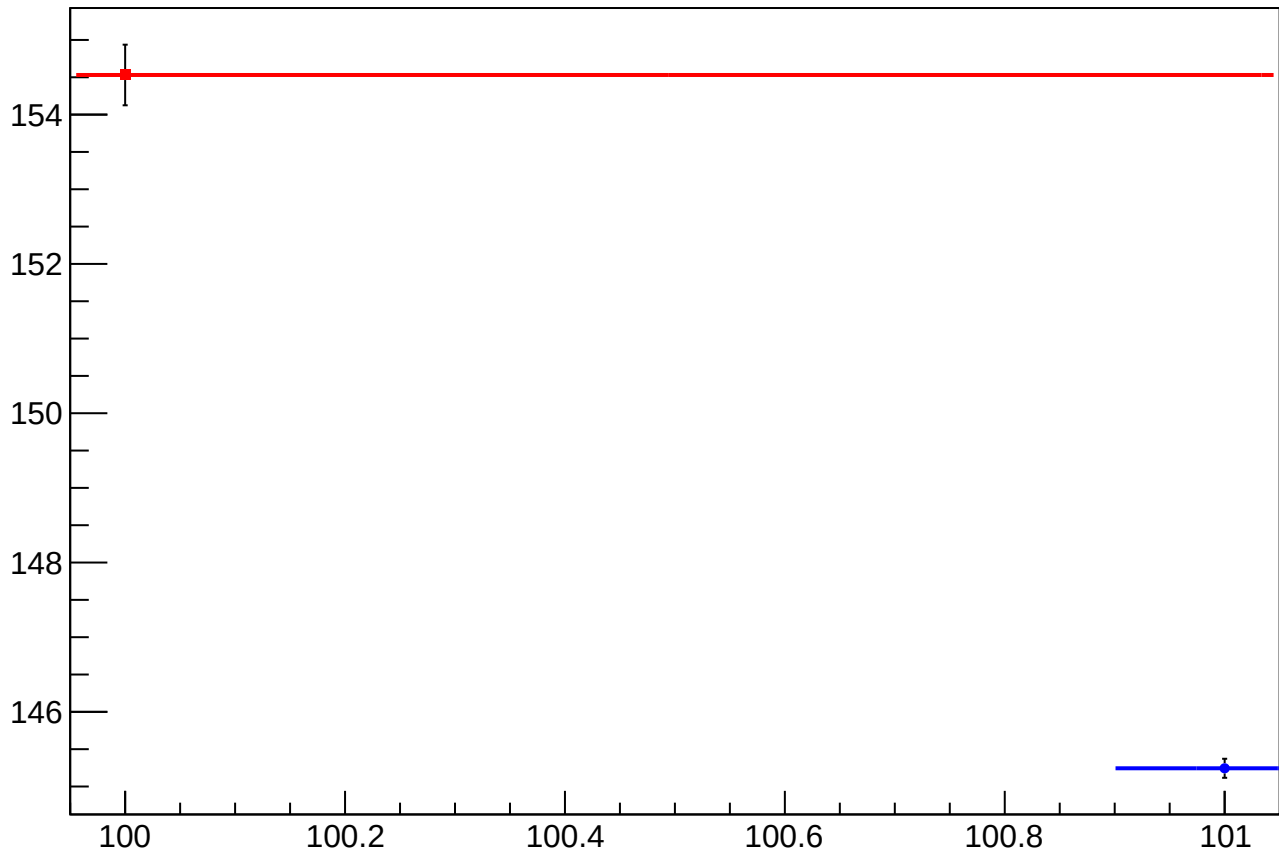
Right: 219.634+/-171.966  $\chi^2/\text{NDF}$ : 4.0/1

In: 327.303+/-180.239  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 219.634+/-171.966  $\chi^2/\text{NDF}$ : 4.0/1

# dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 145.244 $\pm$ 0.127  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 154.531 $\pm$ 0.406  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

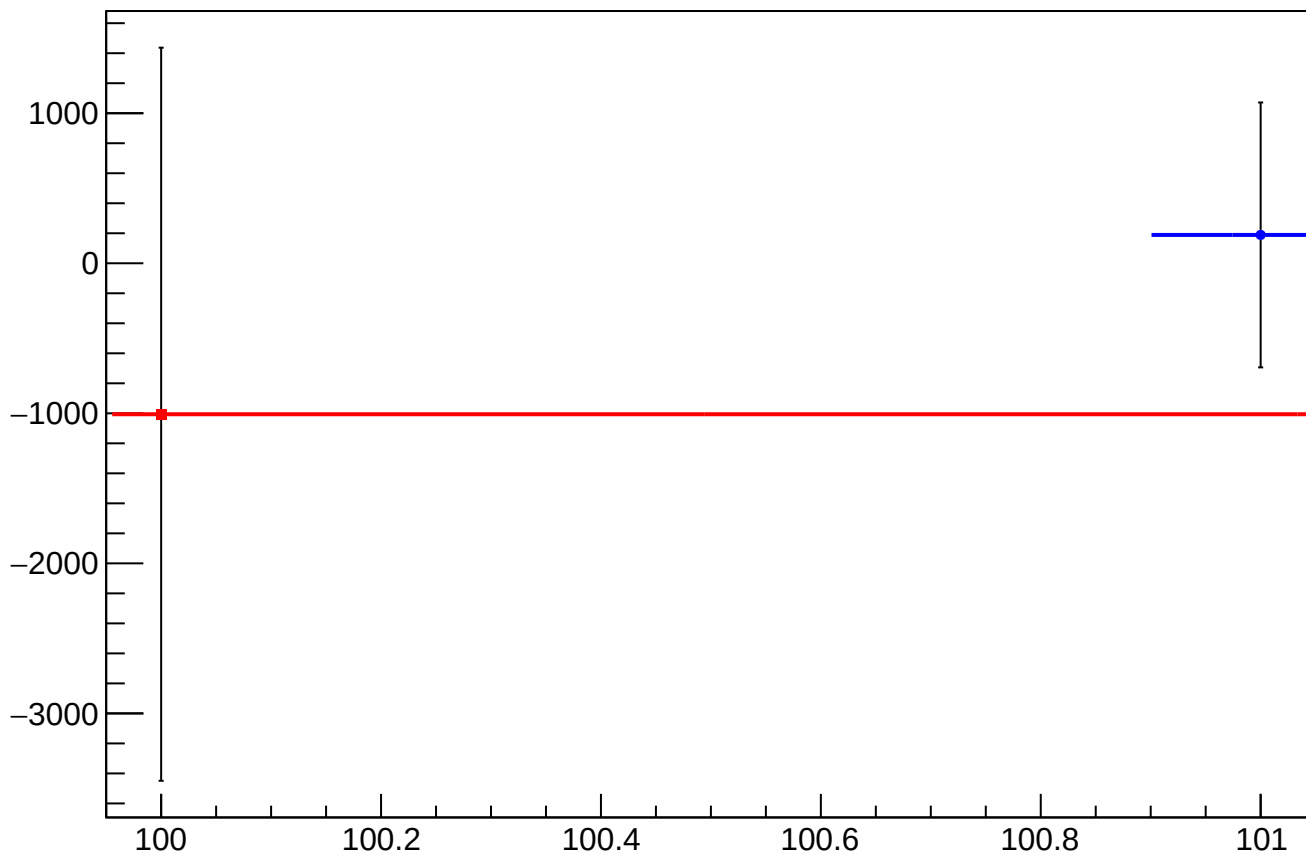
Right: 146.077 $\pm$ 0.122  $\chi^2/\text{NDF}$ : 476.2/1

In: 145.244 $\pm$ 0.127  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 146.077 $\pm$ 0.122  $\chi^2/\text{NDF}$ : 476.2/1

asym\_sam1\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 188.867 $\pm$ 882.684  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1006.125 $\pm$ 2443.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

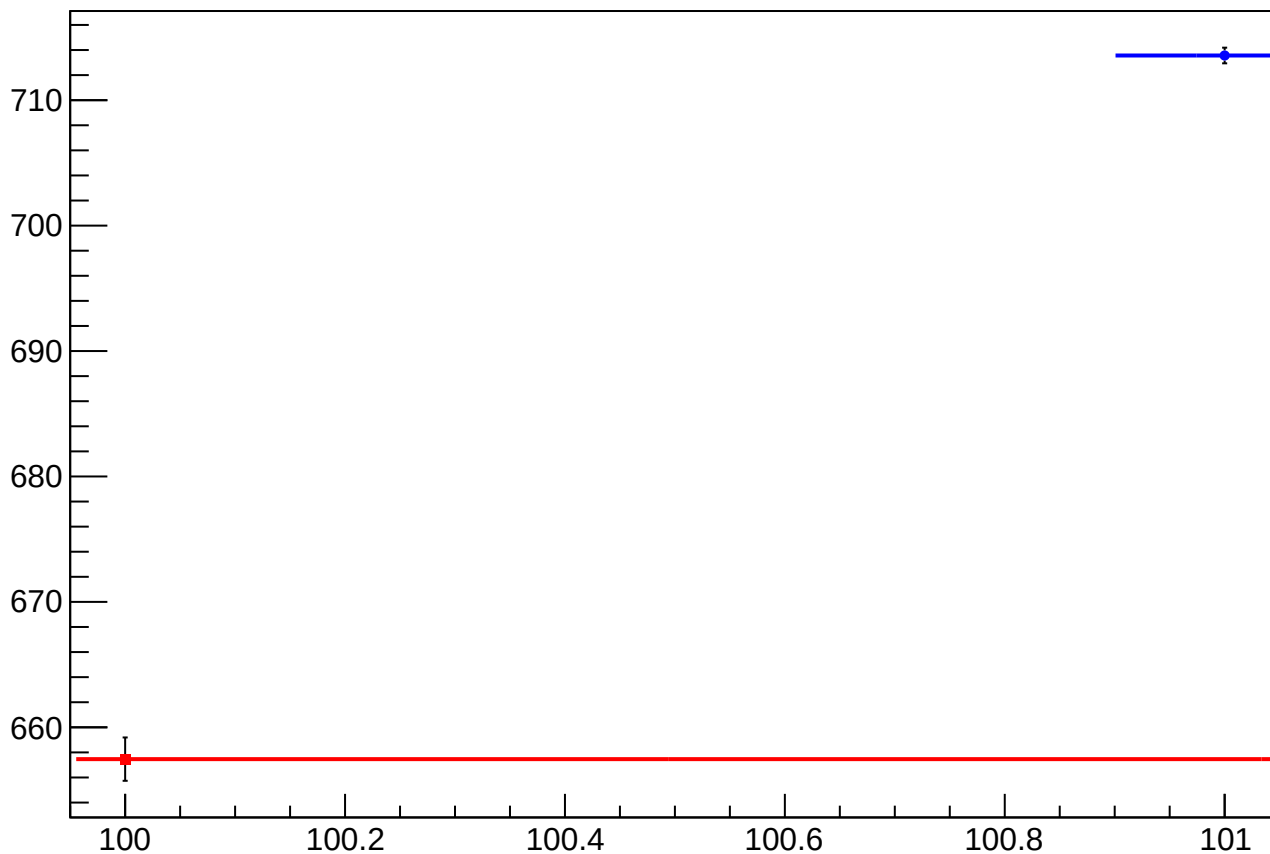
Right: 50.879 $\pm$ 830.159  $\chi^2$ /NDF: 0.2/1

In: 188.867 $\pm$ 882.684  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 50.879 $\pm$ 830.159  $\chi^2$ /NDF: 0.2/1

asym\_sam1\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 713.563 $\pm$ 0.624  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 657.463 $\pm$ 1.727  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

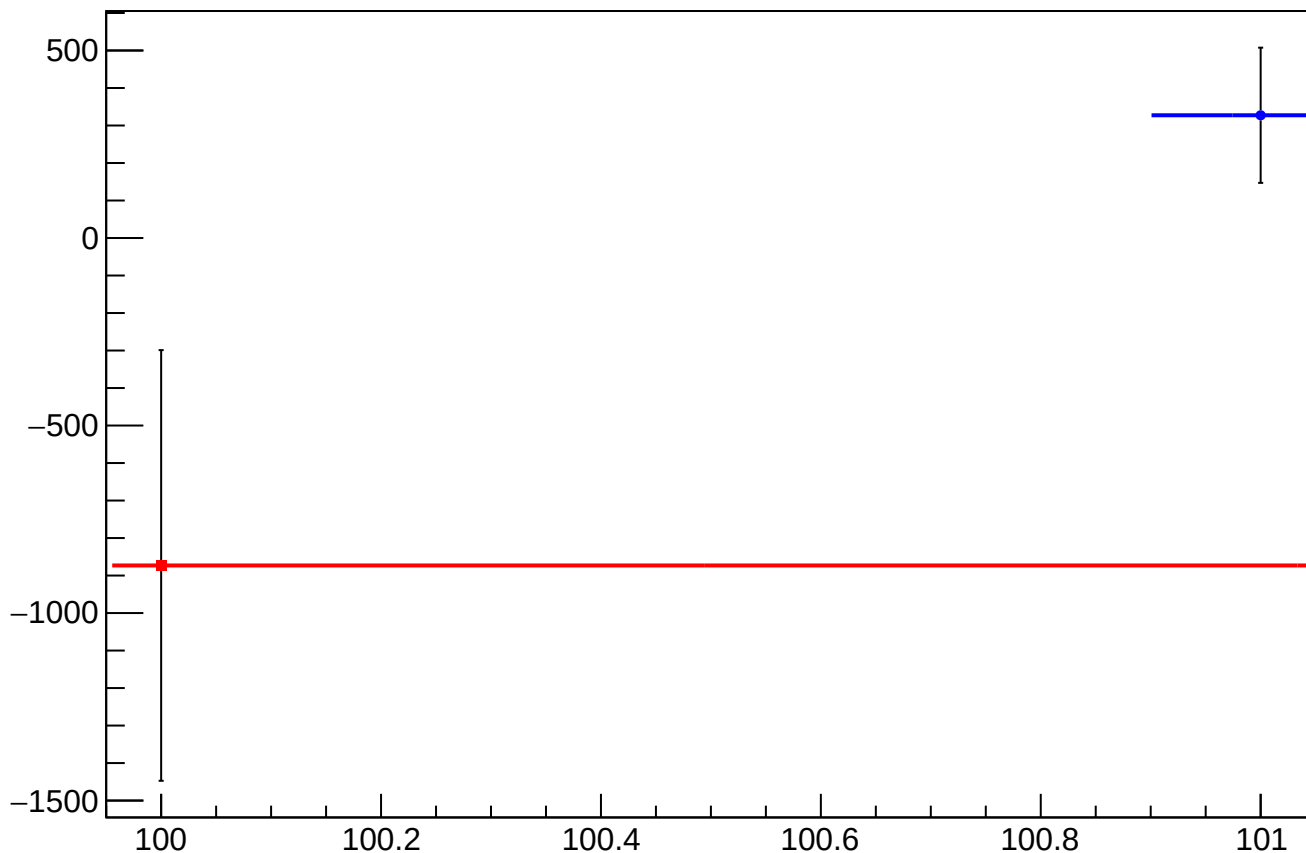
Right: 707.085 $\pm$ 0.587  $\chi^2$ /NDF: 932.9/1

In: 713.563 $\pm$ 0.624  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 707.085 $\pm$ 0.587  $\chi^2$ /NDF: 932.9/1

eigen\_dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 327.304+/-180.239  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -873.099+/-574.194  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

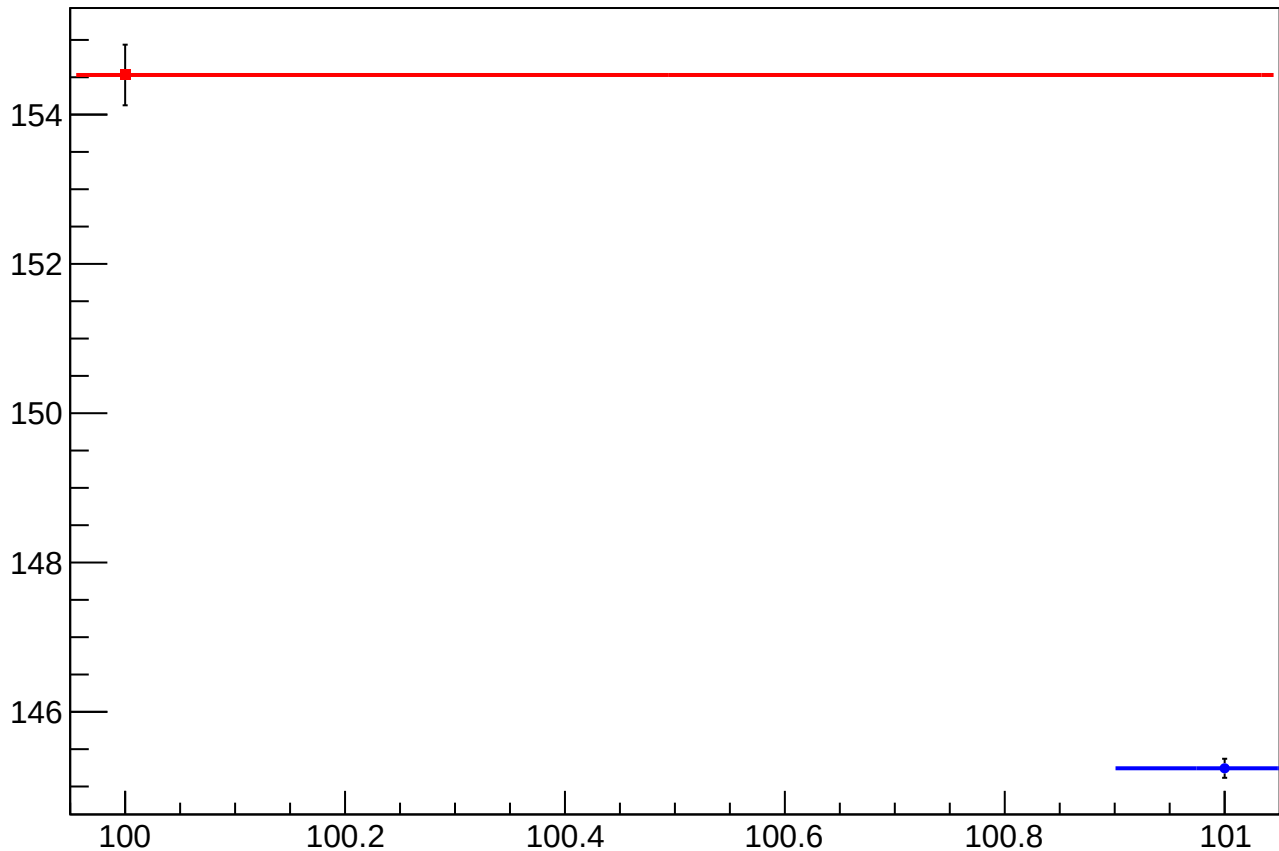
Right: 219.634+/-171.966  $\chi^2/\text{NDF}$ : 4.0/1

In: 327.304+/-180.239  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 219.634+/-171.966  $\chi^2/\text{NDF}$ : 4.0/1

# eigen\_dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 145.244 $\pm$ 0.127  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 154.530 $\pm$ 0.406  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 146.077 $\pm$ 0.122  $\chi^2$ /NDF: 476.2/1

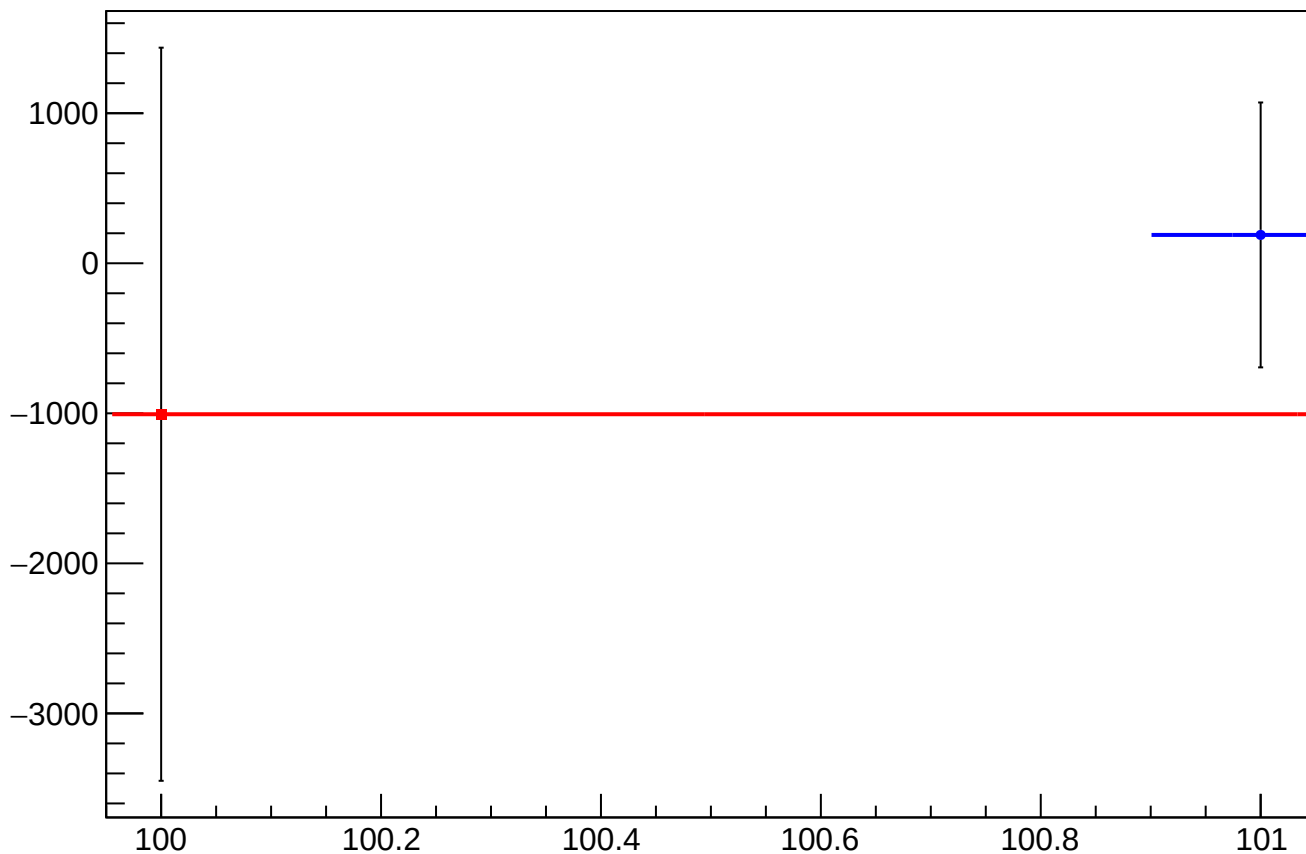
In: 145.244 $\pm$ 0.127  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 146.077 $\pm$ 0.122  $\chi^2$ /NDF: 476.2/1



asym\_sam1\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 188.868+/-882.683  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1006.129+/-2442.995  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

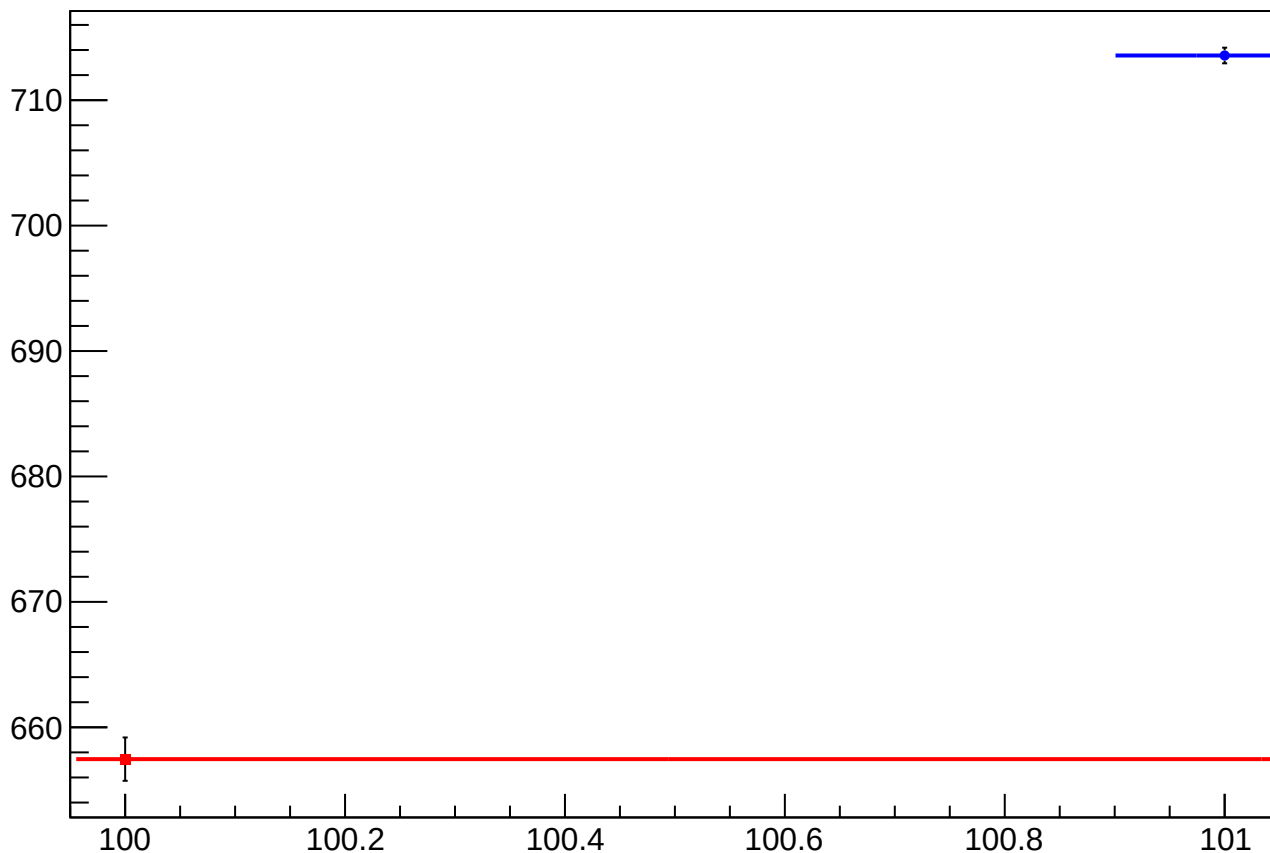
Right: 50.880+/-830.158  $\chi^2/\text{NDF}$ : 0.2/1

In: 188.868+/-882.683  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.880+/-830.158  $\chi^2/\text{NDF}$ : 0.2/1

asym\_sam1\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 713.562 $\pm$ 0.624  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 657.462 $\pm$ 1.727  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

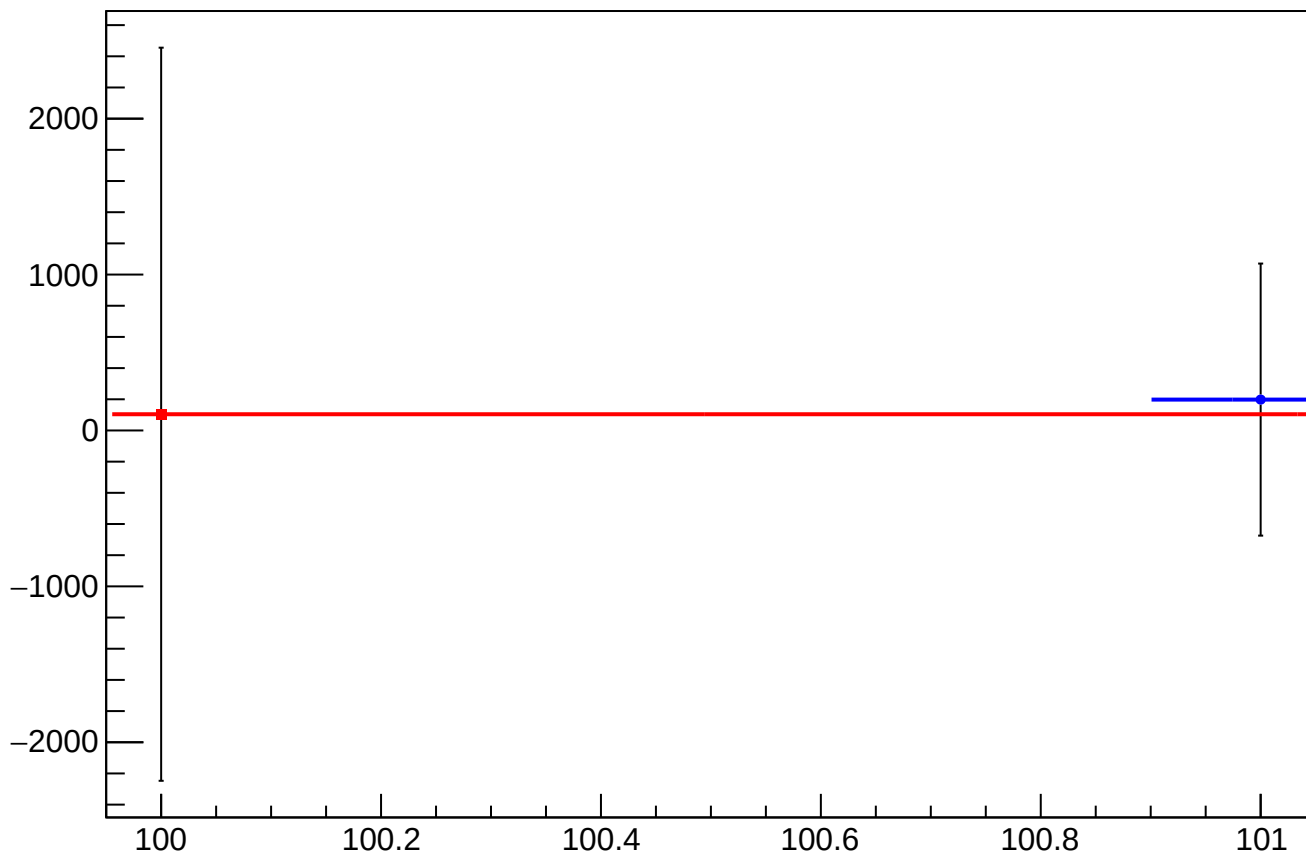
Right: 707.084 $\pm$ 0.587  $\chi^2$ /NDF: 932.9/1

In: 713.562 $\pm$ 0.624  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 707.084 $\pm$ 0.587  $\chi^2$ /NDF: 932.9/1

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 198.012 $\pm$ 872.573  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 104.106 $\pm$ 2351.268  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

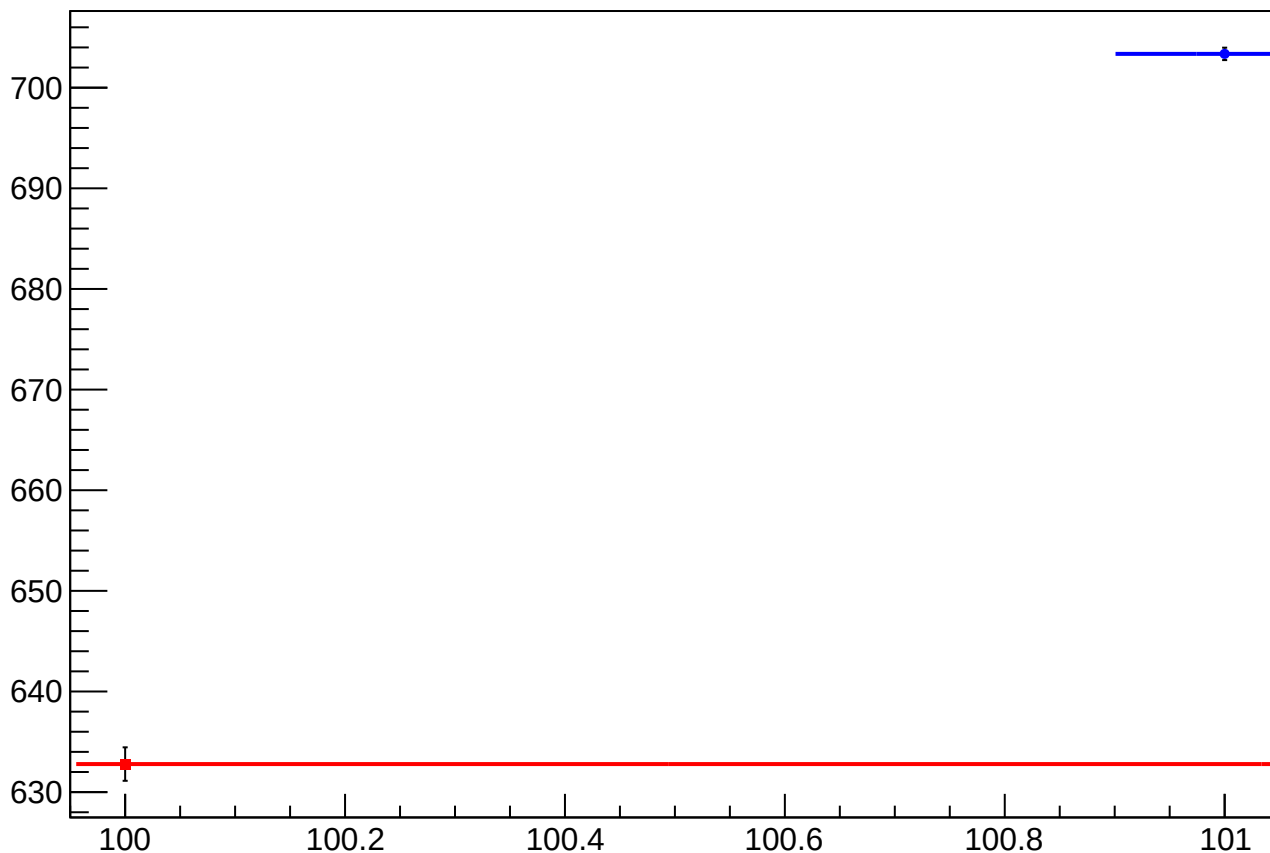
Right: 186.645 $\pm$ 818.057  $\chi^2$ /NDF: 0.0/1

In: 198.012 $\pm$ 872.573  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 186.645 $\pm$ 818.057  $\chi^2$ /NDF: 0.0/1

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 703.360 $\pm$ 0.617  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 632.788 $\pm$ 1.663  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

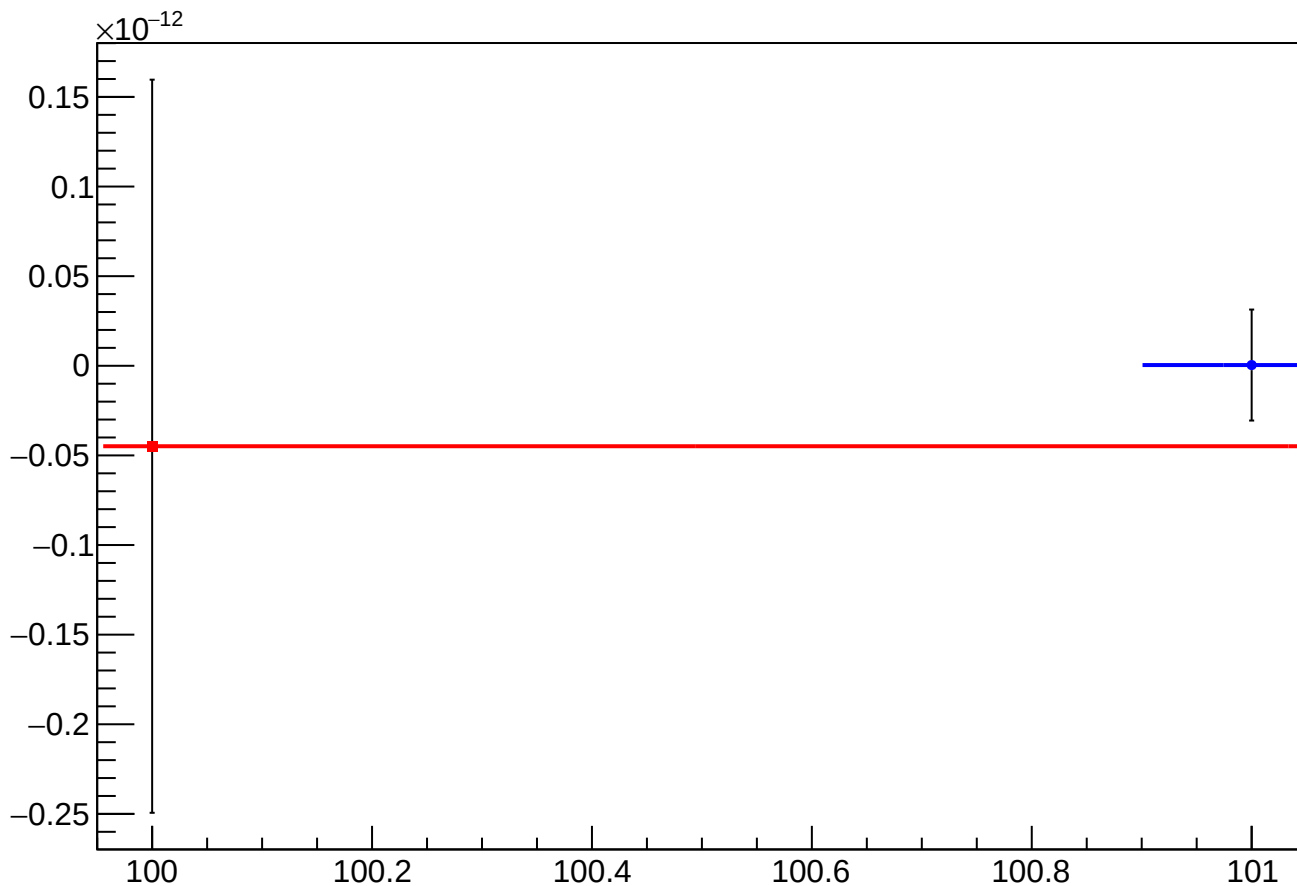
Right: 694.817 $\pm$ 0.578  $\chi^2$ /NDF: 1583.6/1

In: 703.360 $\pm$ 0.617  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 694.817 $\pm$ 0.578  $\chi^2$ /NDF: 1583.6/1

asym\_sam1\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

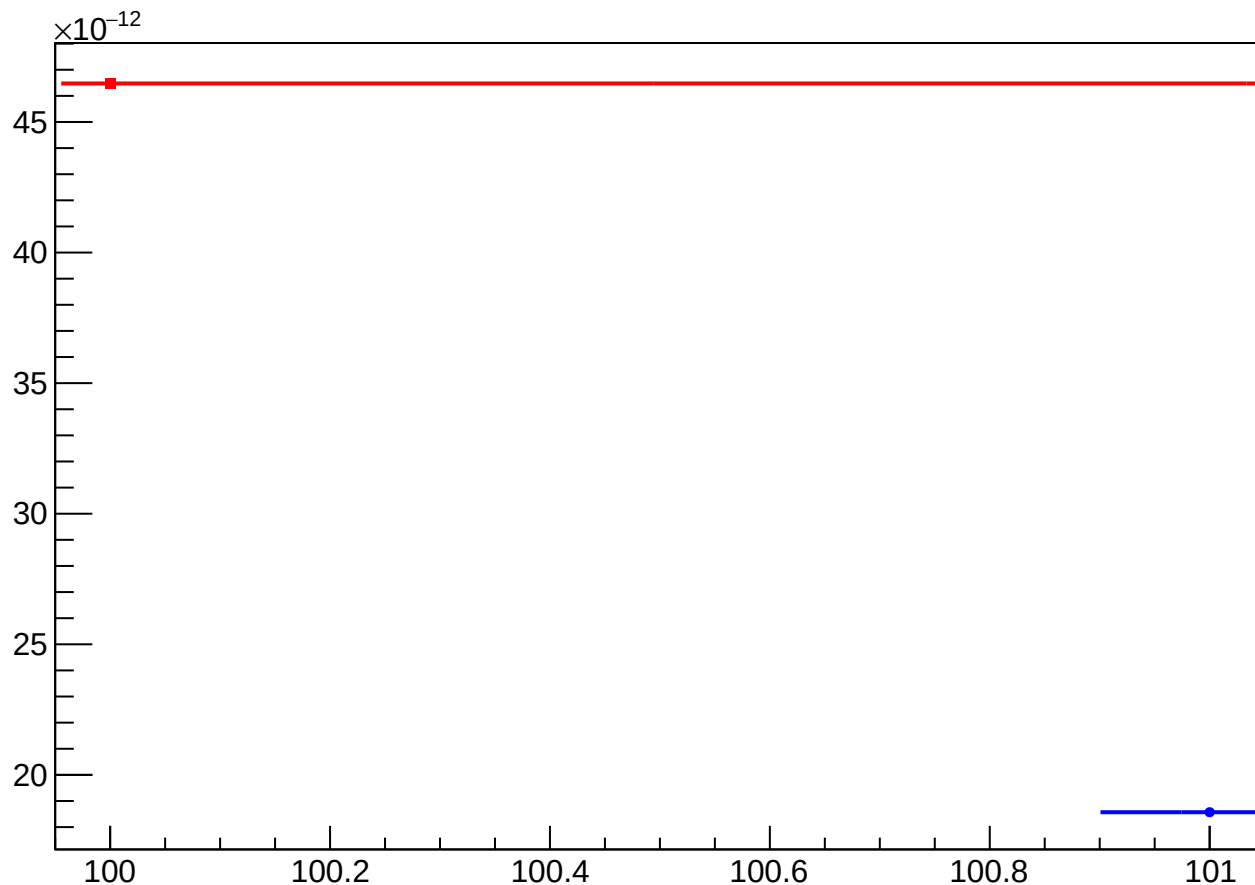
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam1\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

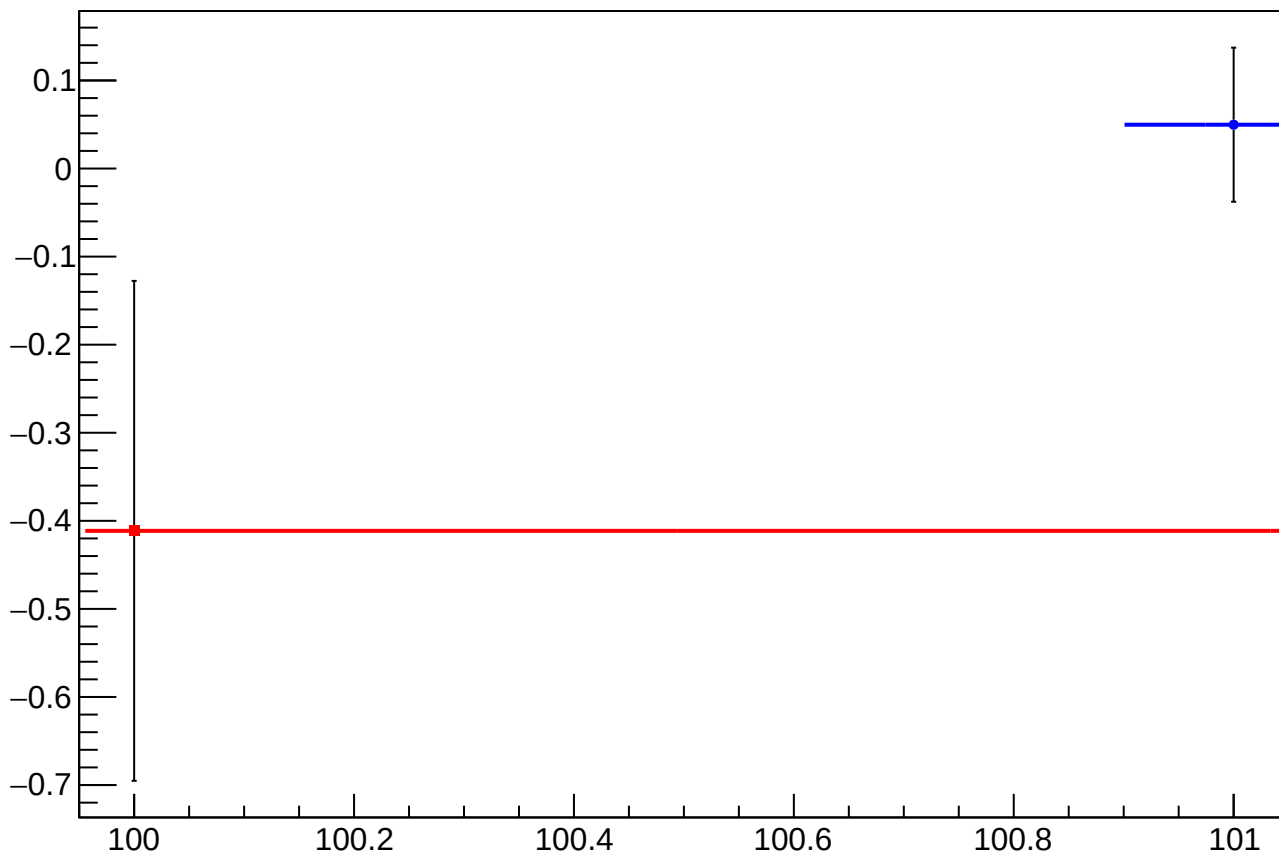
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 36404.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 36404.3/1

asym\_sam1\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.050 $\pm$ 0.087  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.411 $\pm$ 0.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

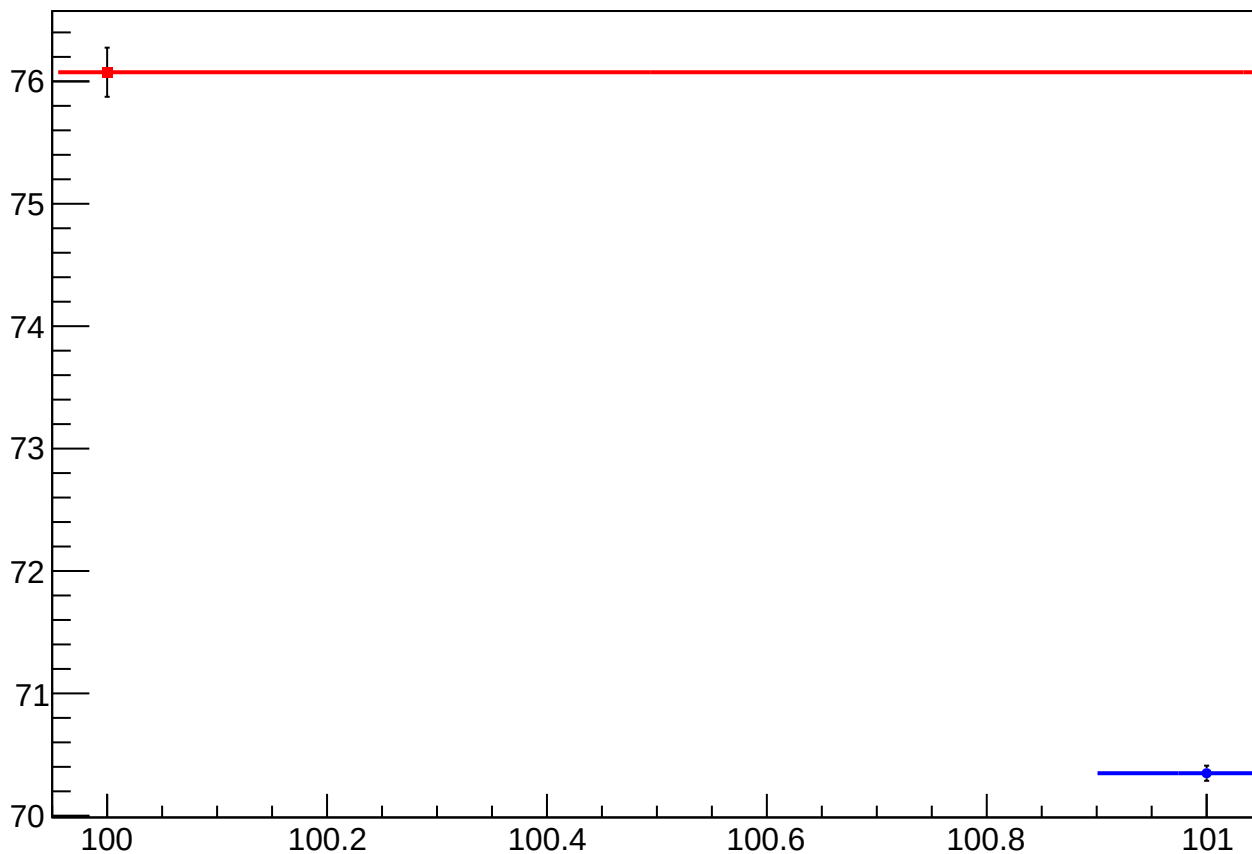
Right: 0.010 $\pm$ 0.084  $\chi^2$ /NDF: 2.4/1

In: 0.050 $\pm$ 0.087  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.010 $\pm$ 0.084  $\chi^2$ /NDF: 2.4/1

asym\_sam1\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 70.348 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 76.075 $\pm$ 0.201  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 70.845 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 743.7/1

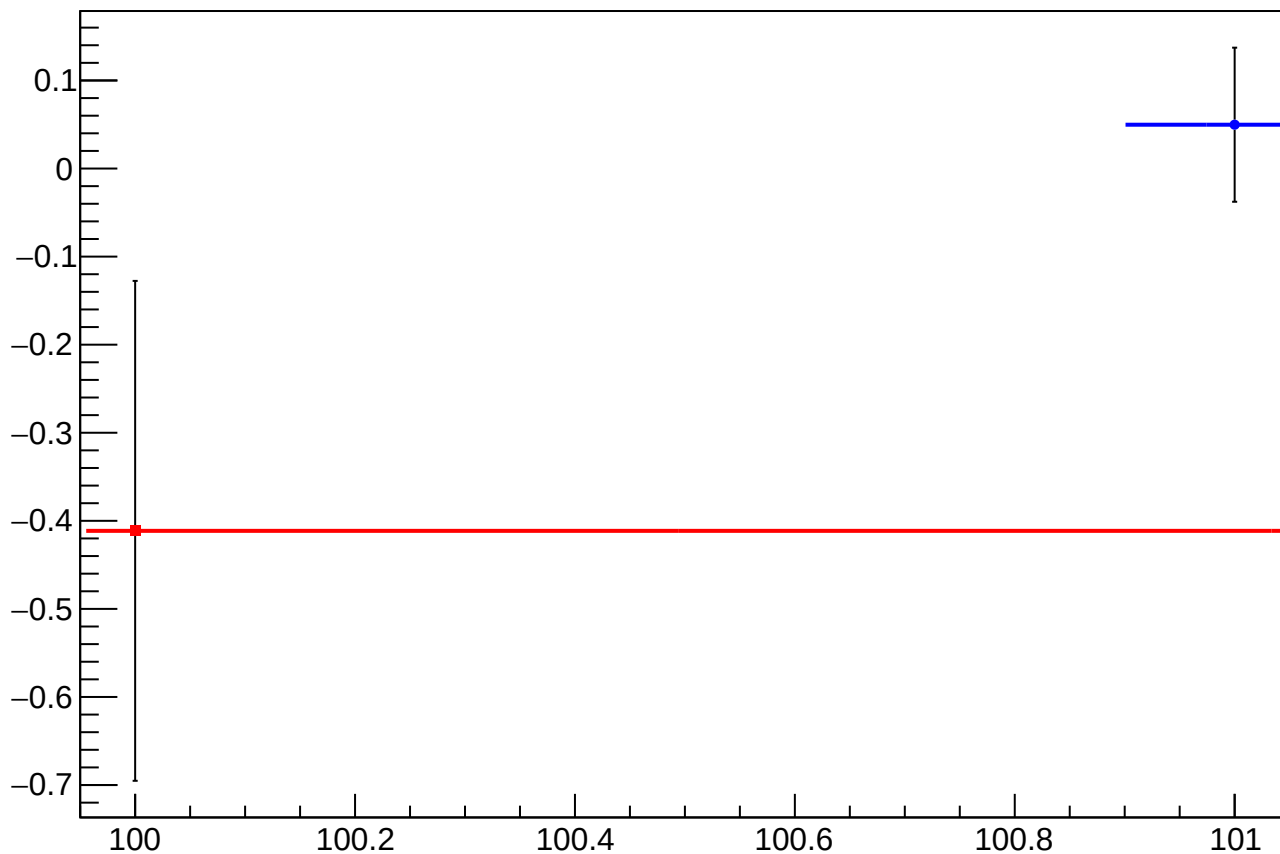
In: 70.348 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.845 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 743.7/1



asym\_sam1\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.050 $\pm$ 0.087  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.411 $\pm$ 0.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

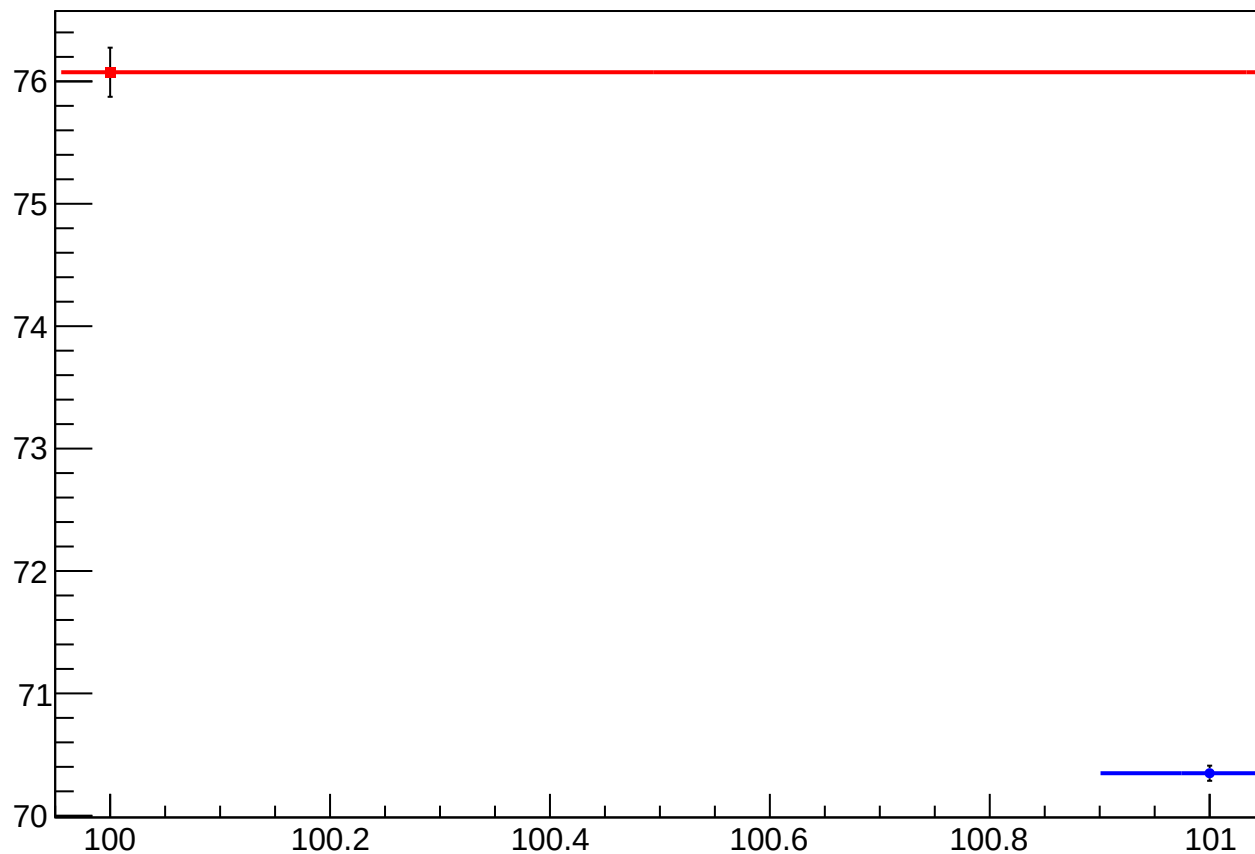
Right: 0.010 $\pm$ 0.084  $\chi^2$ /NDF: 2.4/1

In: 0.050 $\pm$ 0.087  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.010 $\pm$ 0.084  $\chi^2$ /NDF: 2.4/1

asym\_sam1\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 70.348+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 76.075+/-0.201  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

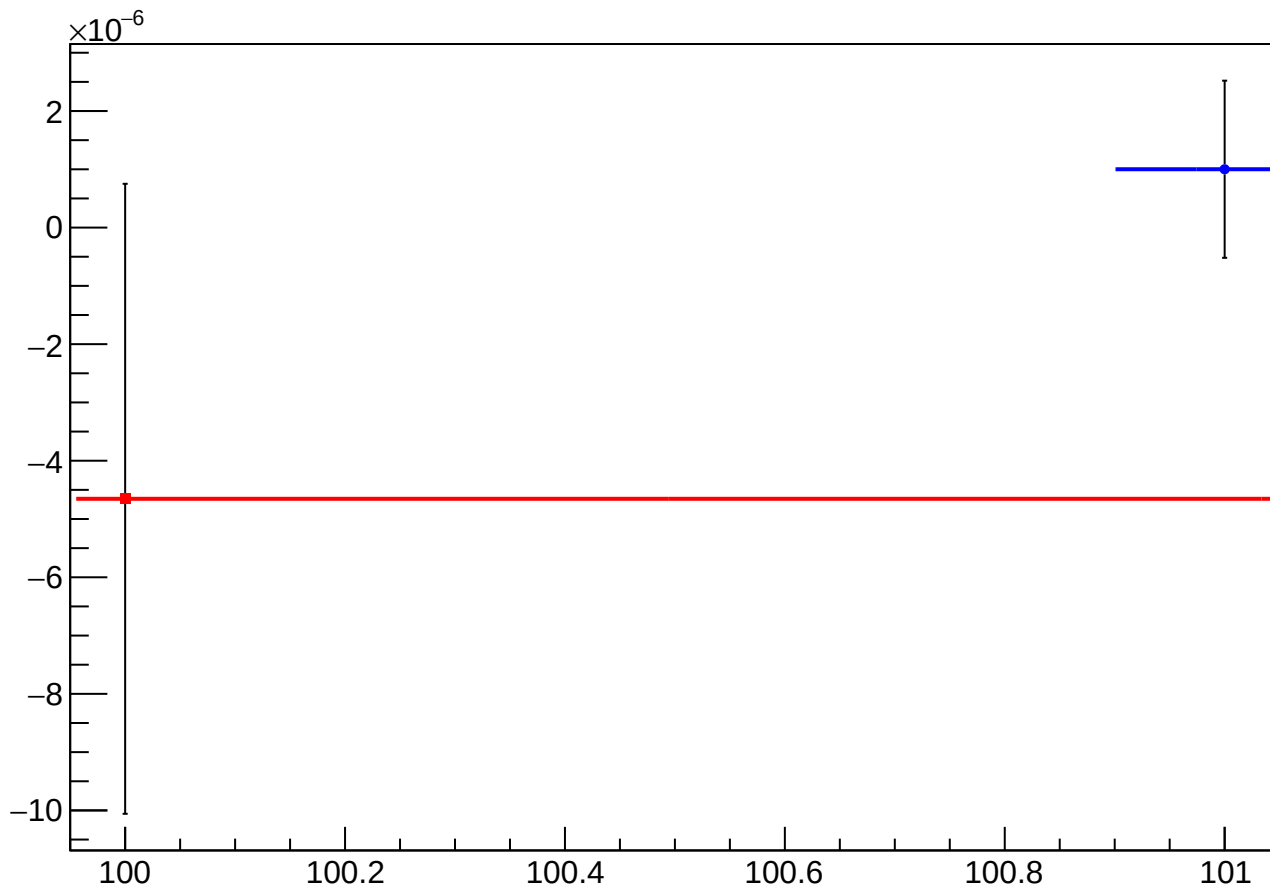
Right: 70.845+/-0.059  $\chi^2/\text{NDF}$ : 743.7/1

In: 70.348+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.845+/-0.059  $\chi^2/\text{NDF}$ : 743.7/1

asym\_sam1\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

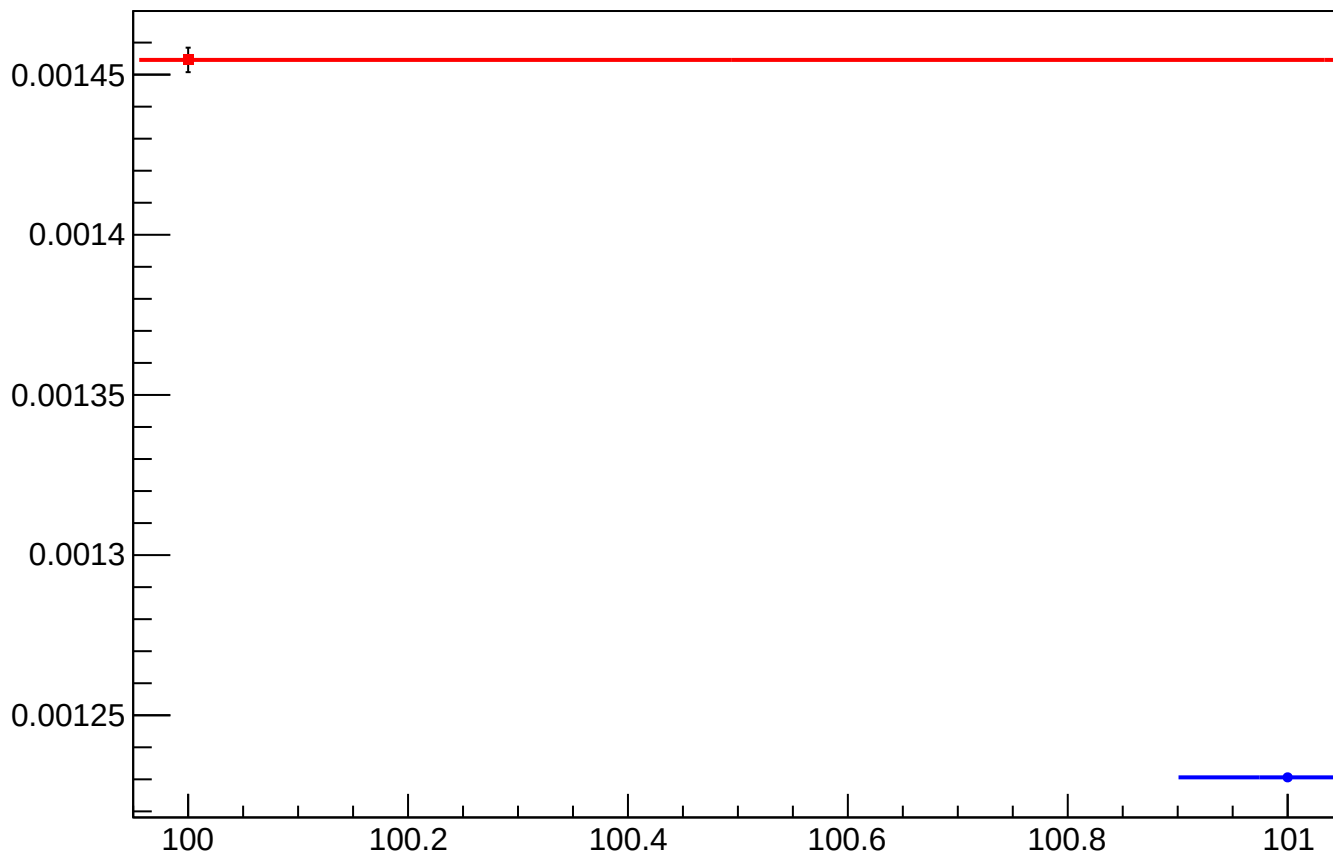
Right: 0.000+/-0.000  $\chi^2$ /NDF: 1.0/1

In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 1.0/1

asym\_sam1\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

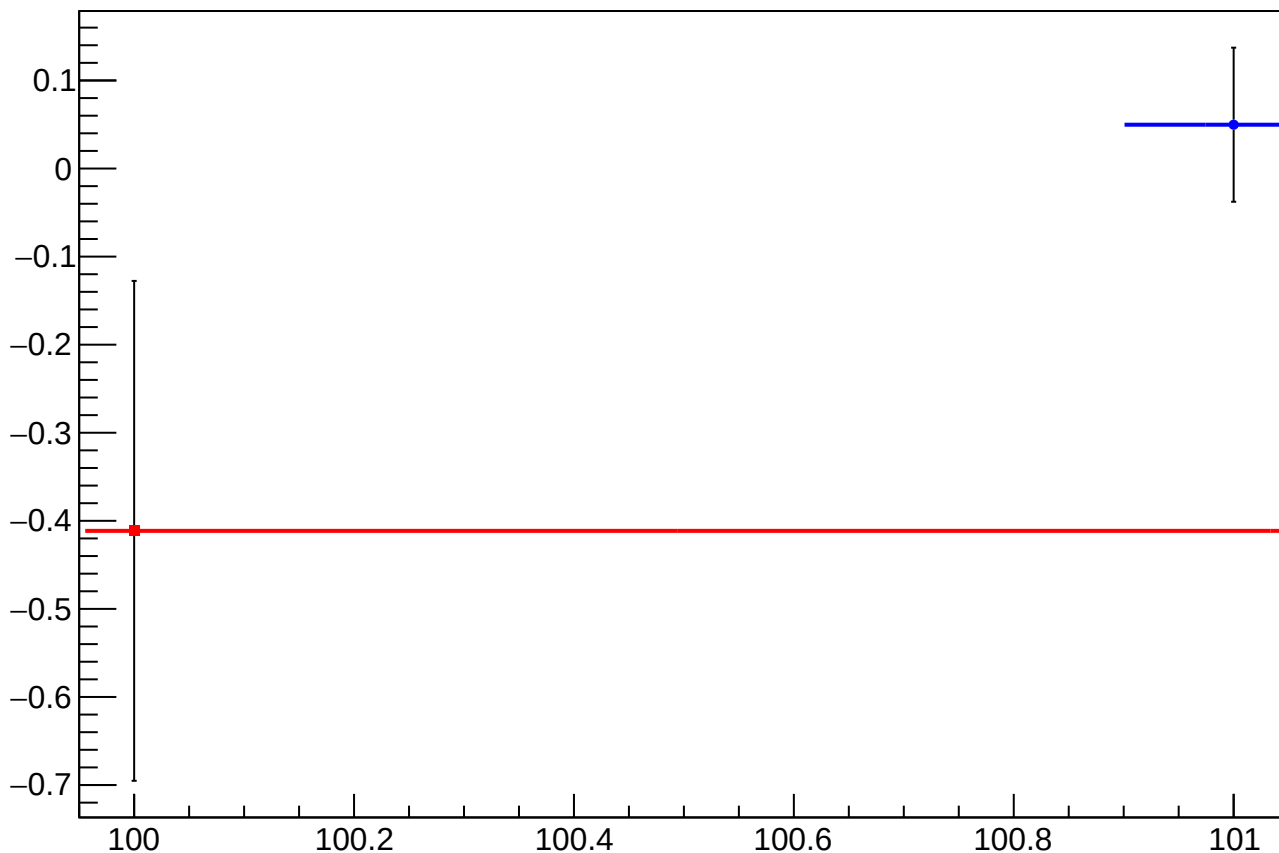
Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3183.0/1

In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3183.0/1

asym\_sam1\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.050+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.411+/-0.284  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

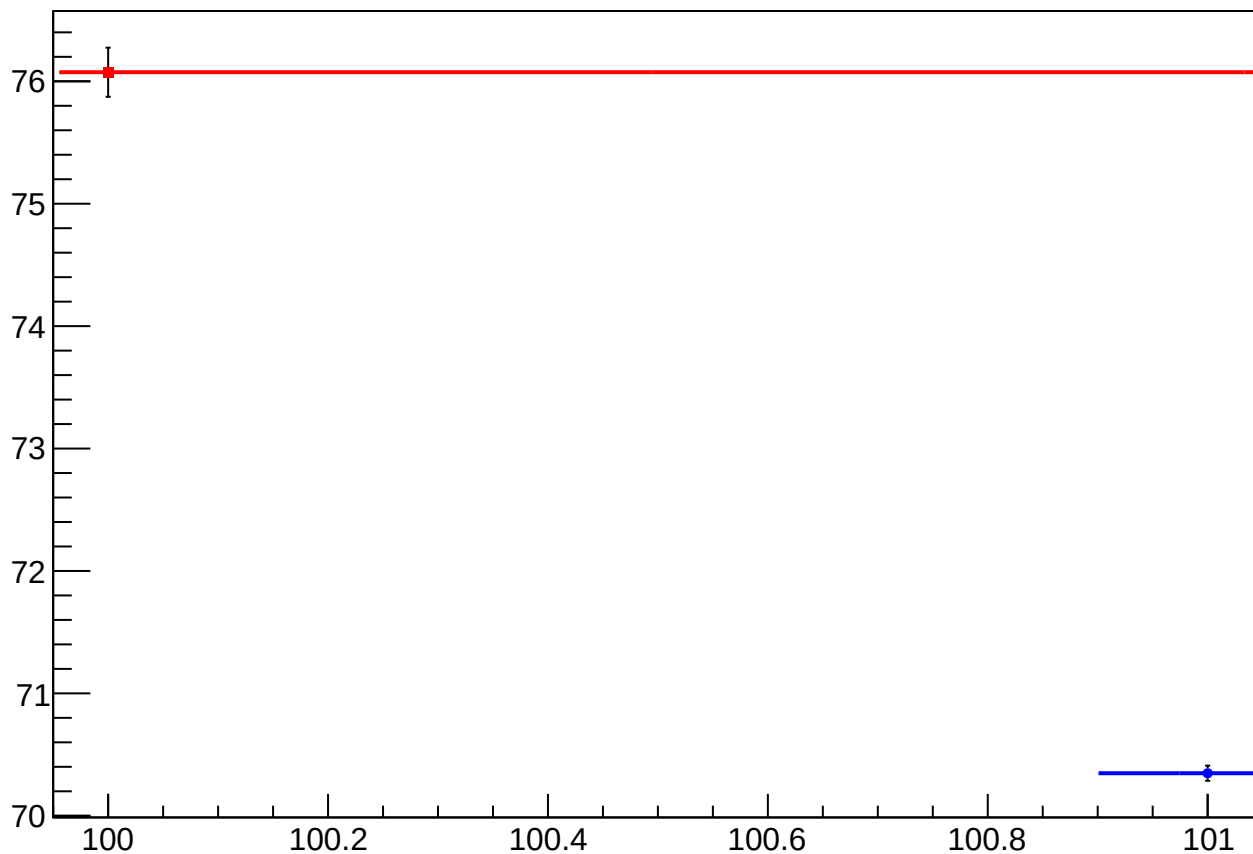
Right: 0.010+/-0.084  $\chi^2/\text{NDF}$ : 2.4/1

In: 0.050+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.084  $\chi^2/\text{NDF}$ : 2.4/1

asym\_sam1\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 70.348+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 76.074+/-0.201  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

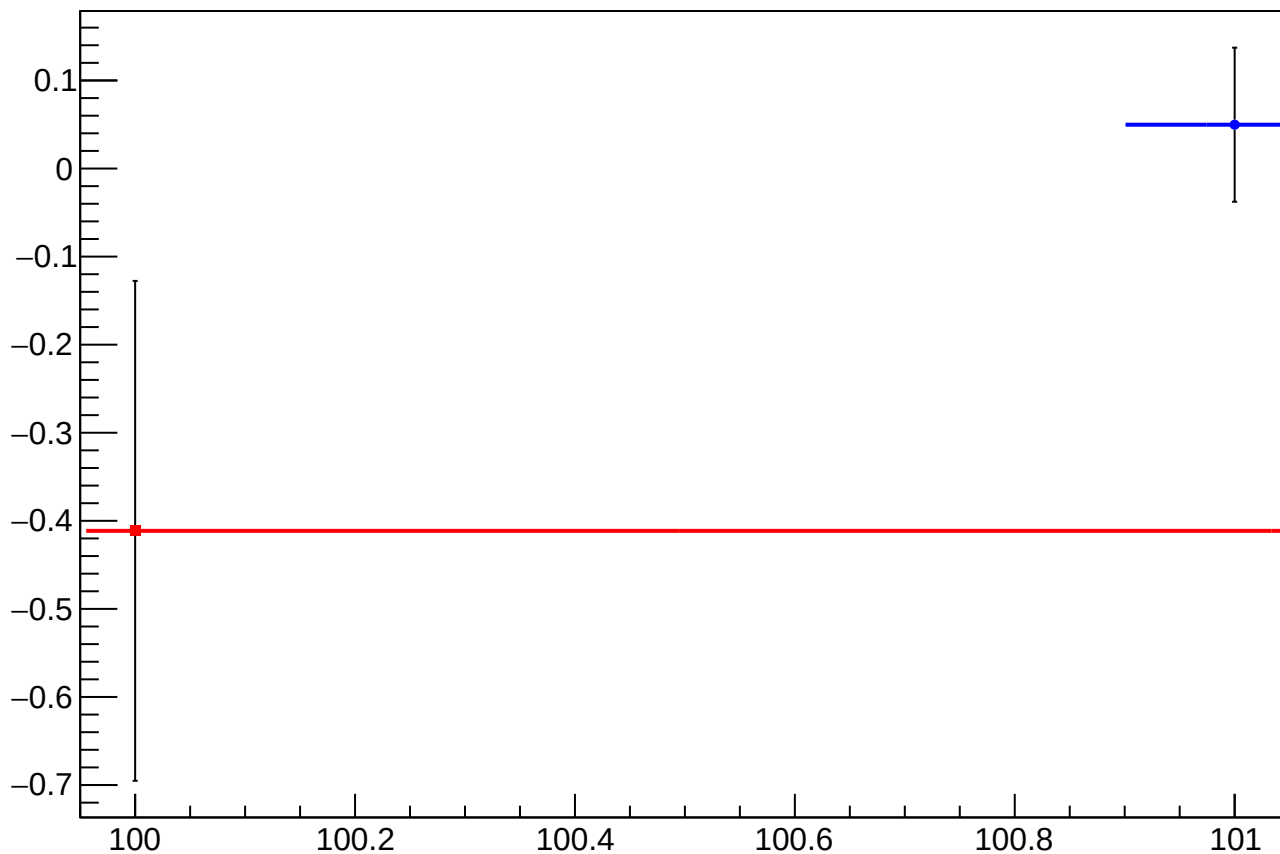
Right: 70.845+/-0.059  $\chi^2/\text{NDF}$ : 743.6/1

In: 70.348+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.845+/-0.059  $\chi^2/\text{NDF}$ : 743.6/1

asym\_sam1\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.050 $\pm$ 0.087  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.411 $\pm$ 0.284  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

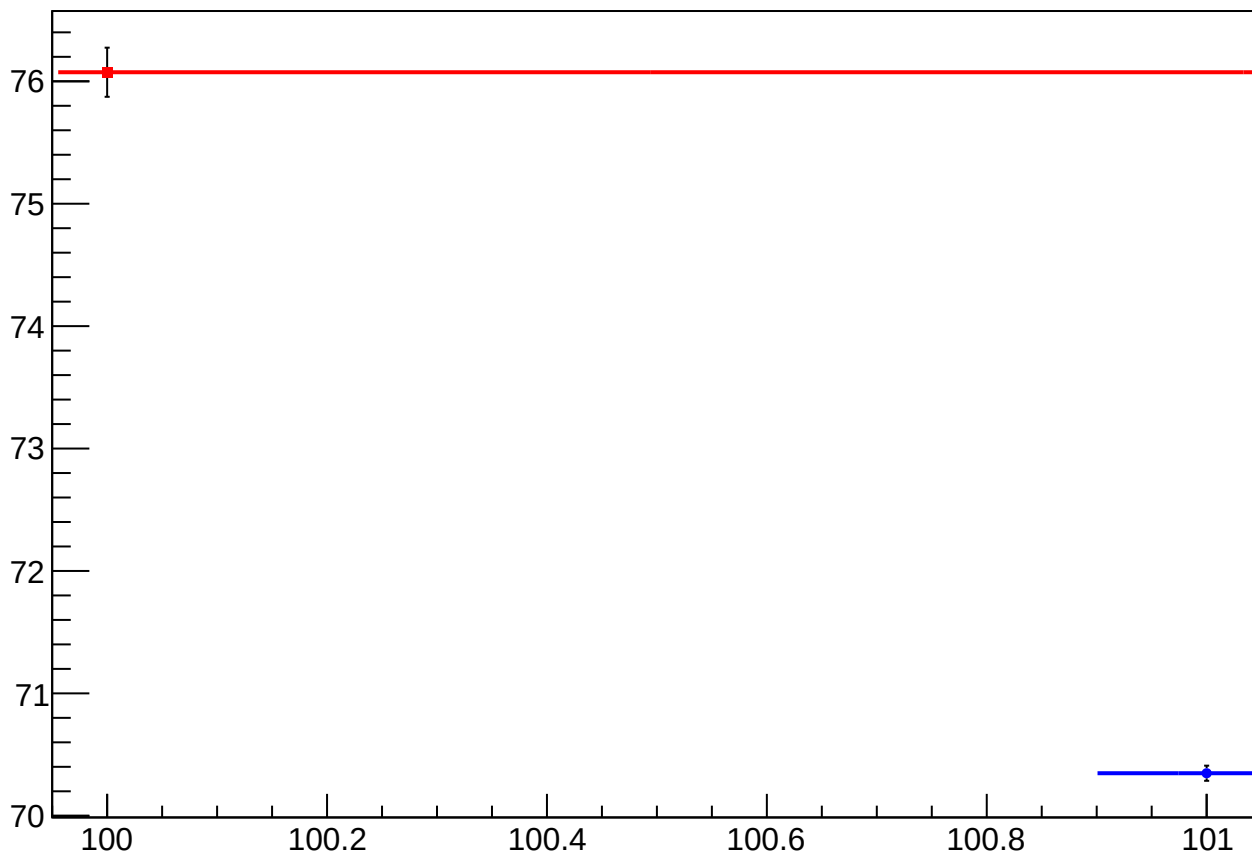
Right: 0.010 $\pm$ 0.084  $\chi^2/\text{NDF}$ : 2.4/1

In: 0.050 $\pm$ 0.087  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010 $\pm$ 0.084  $\chi^2/\text{NDF}$ : 2.4/1

asym\_sam1\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 70.348+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 76.074+/-0.201  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 70.845+/-0.059  $\chi^2/\text{NDF}$ : 743.6/1

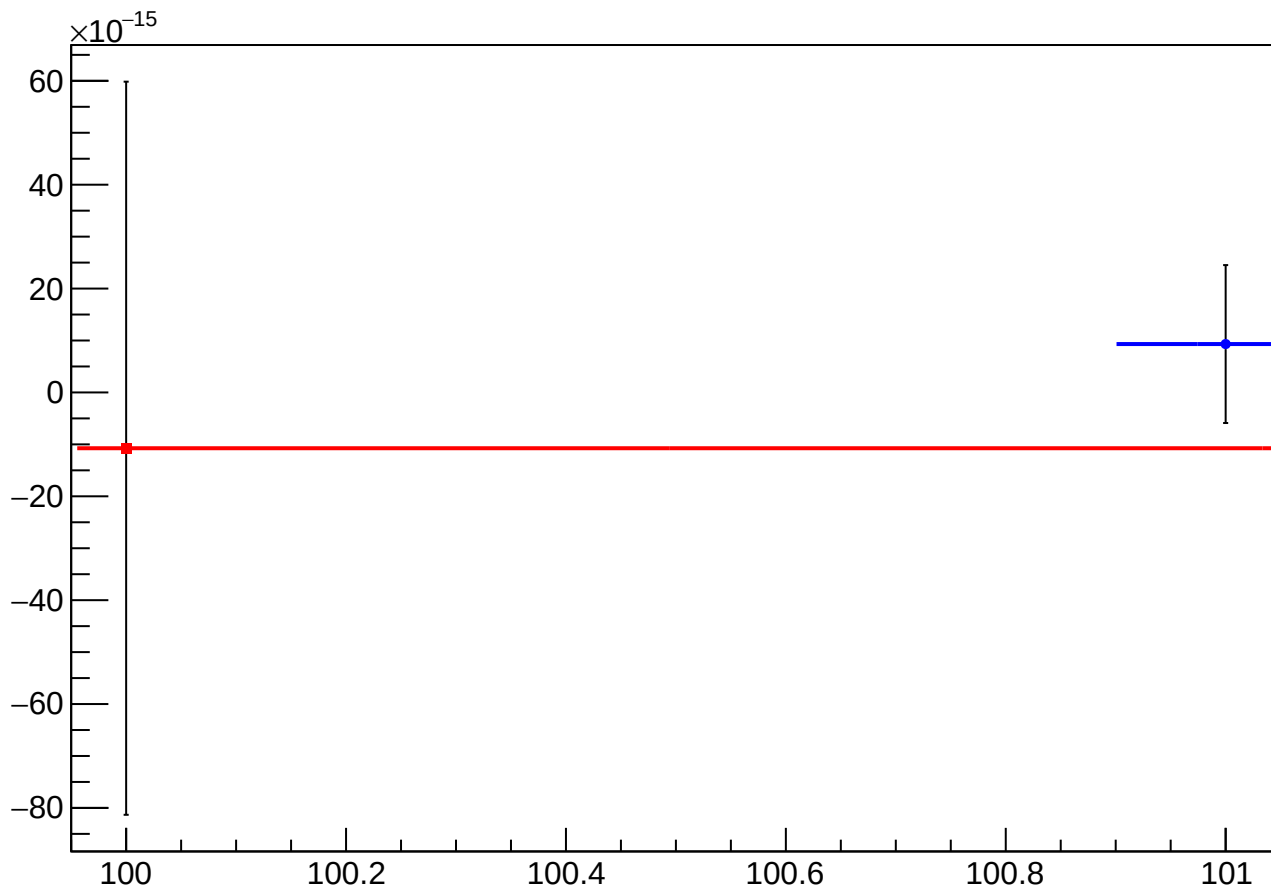
In: 70.348+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.845+/-0.059  $\chi^2/\text{NDF}$ : 743.6/1



asym\_sam1\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

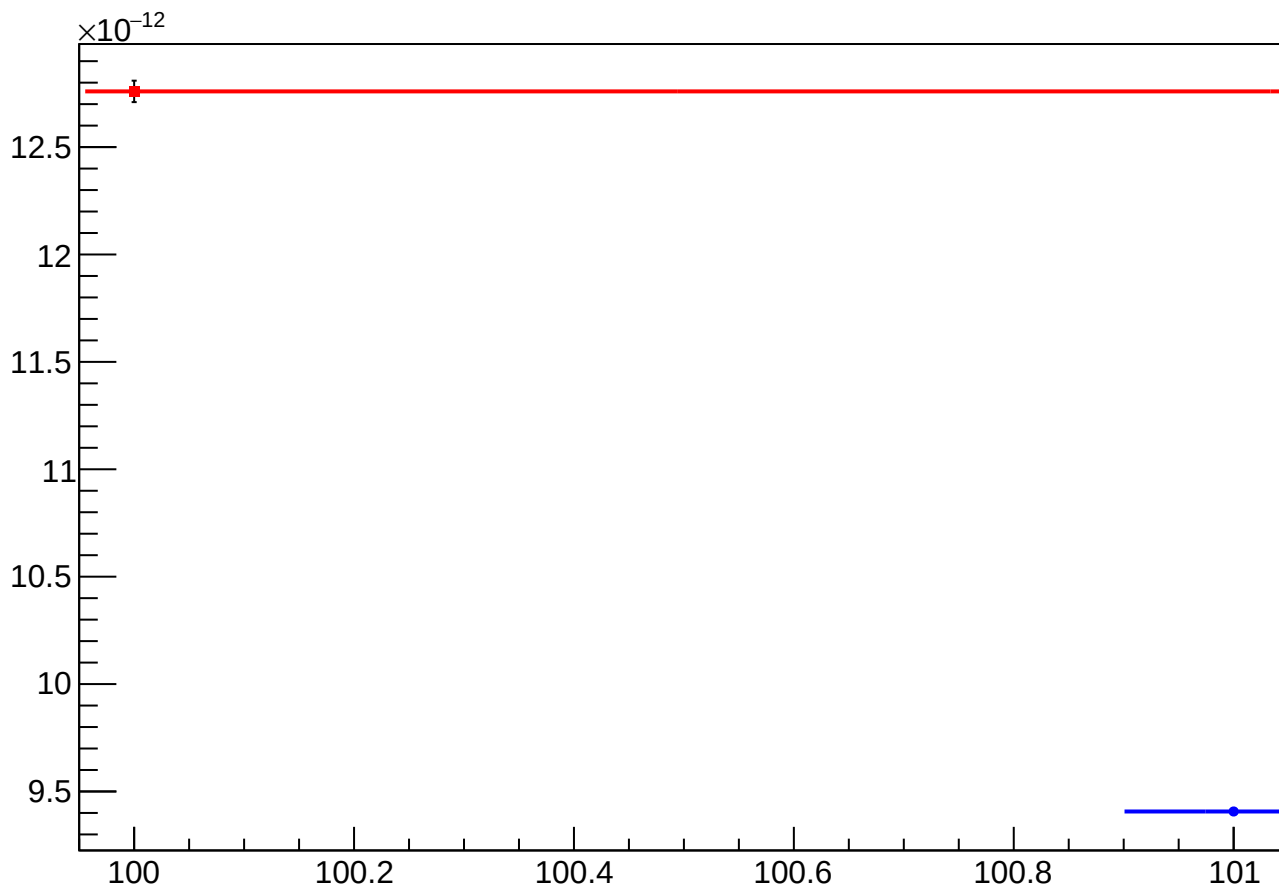
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam1\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

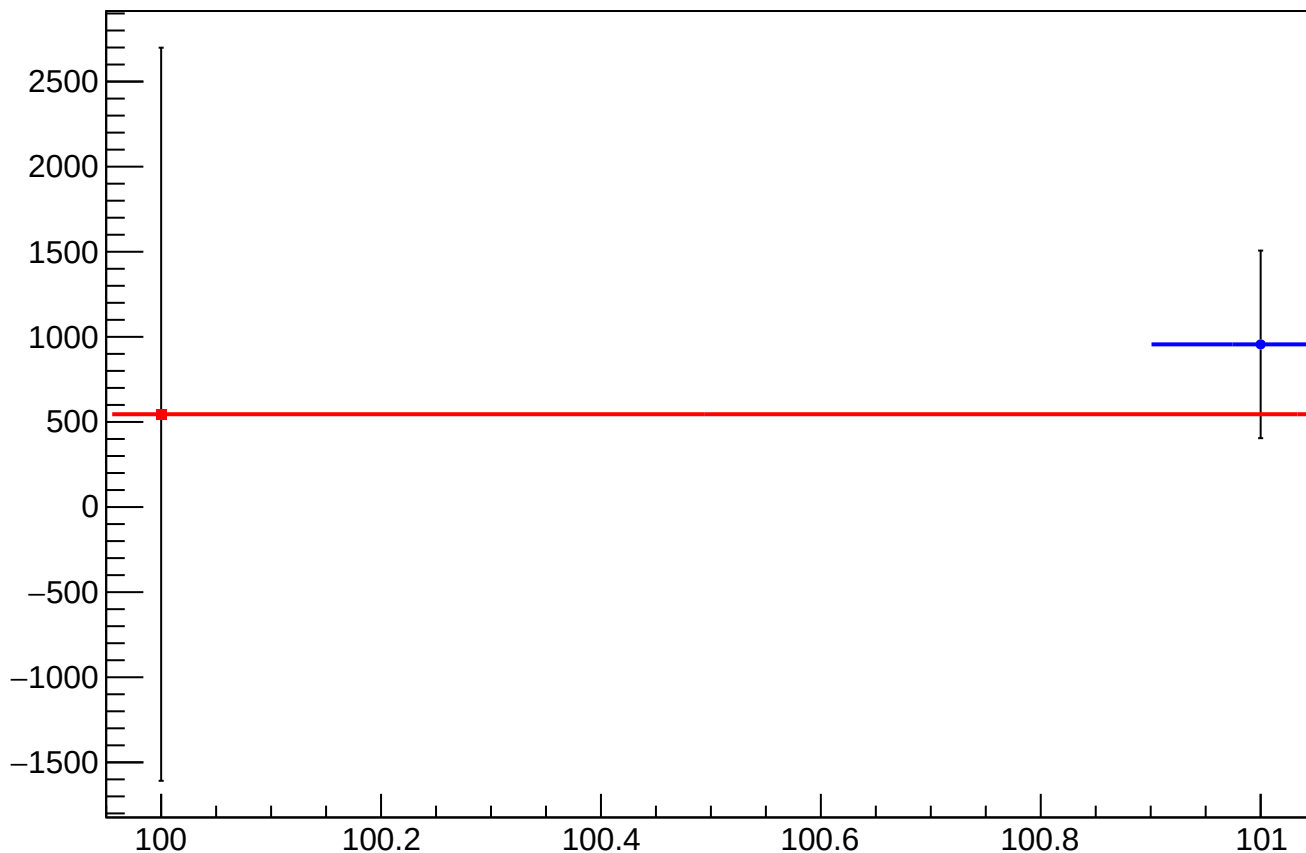
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4312.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4312.1/1

# reg\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 955.798+/-551.034  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 545.363+/-2153.736  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

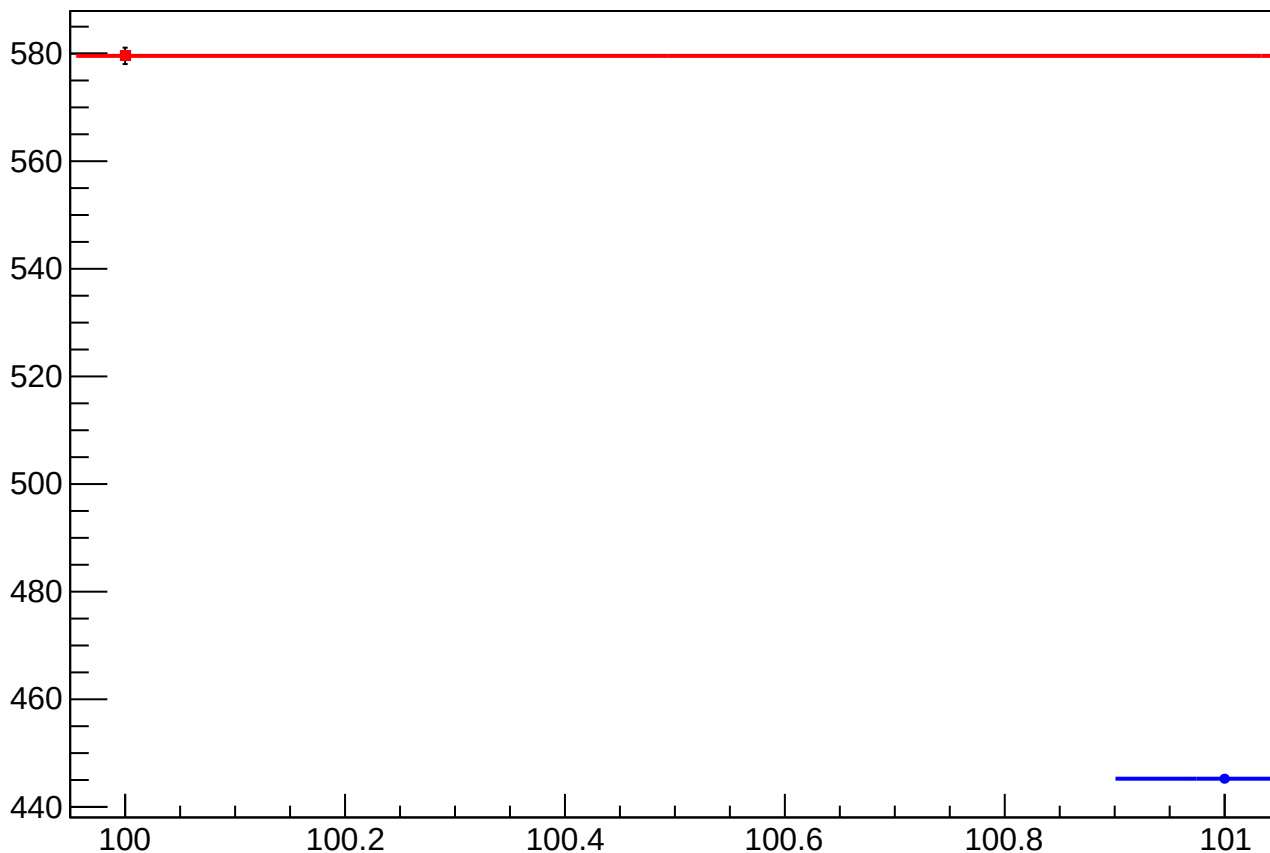
Right: 930.582+/-533.838  $\chi^2/\text{NDF}$ : 0.0/1

In: 955.798+/-551.034  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 930.582+/-533.838  $\chi^2/\text{NDF}$ : 0.0/1

# reg\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 445.243+/-0.390  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 579.574+/-1.523  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

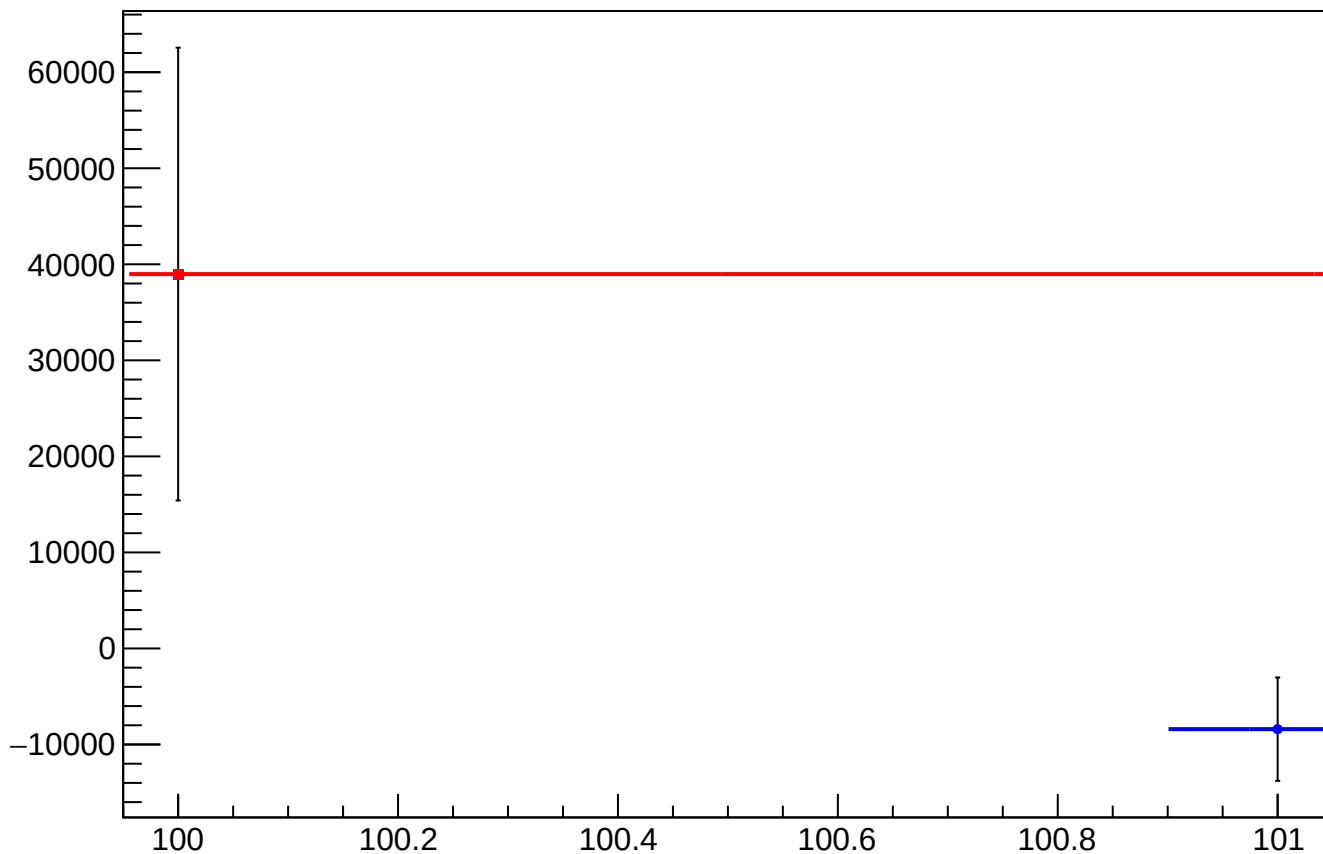
Right: 453.496+/-0.377  $\chi^2/\text{NDF}$ : 7302.3/1

In: 445.243+/-0.390  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 453.496+/-0.377  $\chi^2/\text{NDF}$ : 7302.3/1

asym\_sam2\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -8399.972+/-5379.803  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38981.421+/-23574.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

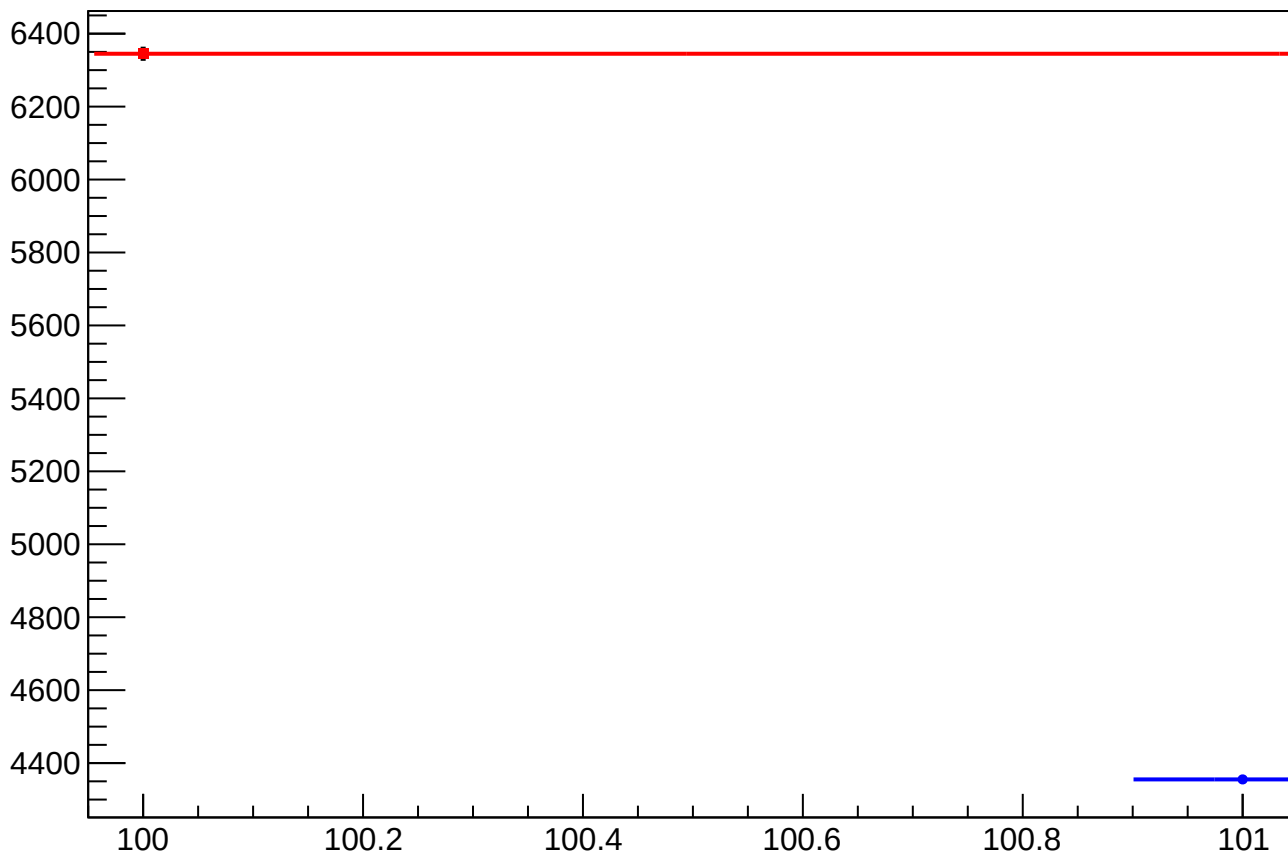
Right: -6054.568+/-5244.962  $\chi^2/\text{NDF}$ : 3.8/1

In: -8399.972+/-5379.803  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6054.568+/-5244.962  $\chi^2/\text{NDF}$ : 3.8/1

asym\_sam2\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 4355.268+/-3.804  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6344.929+/-16.669  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

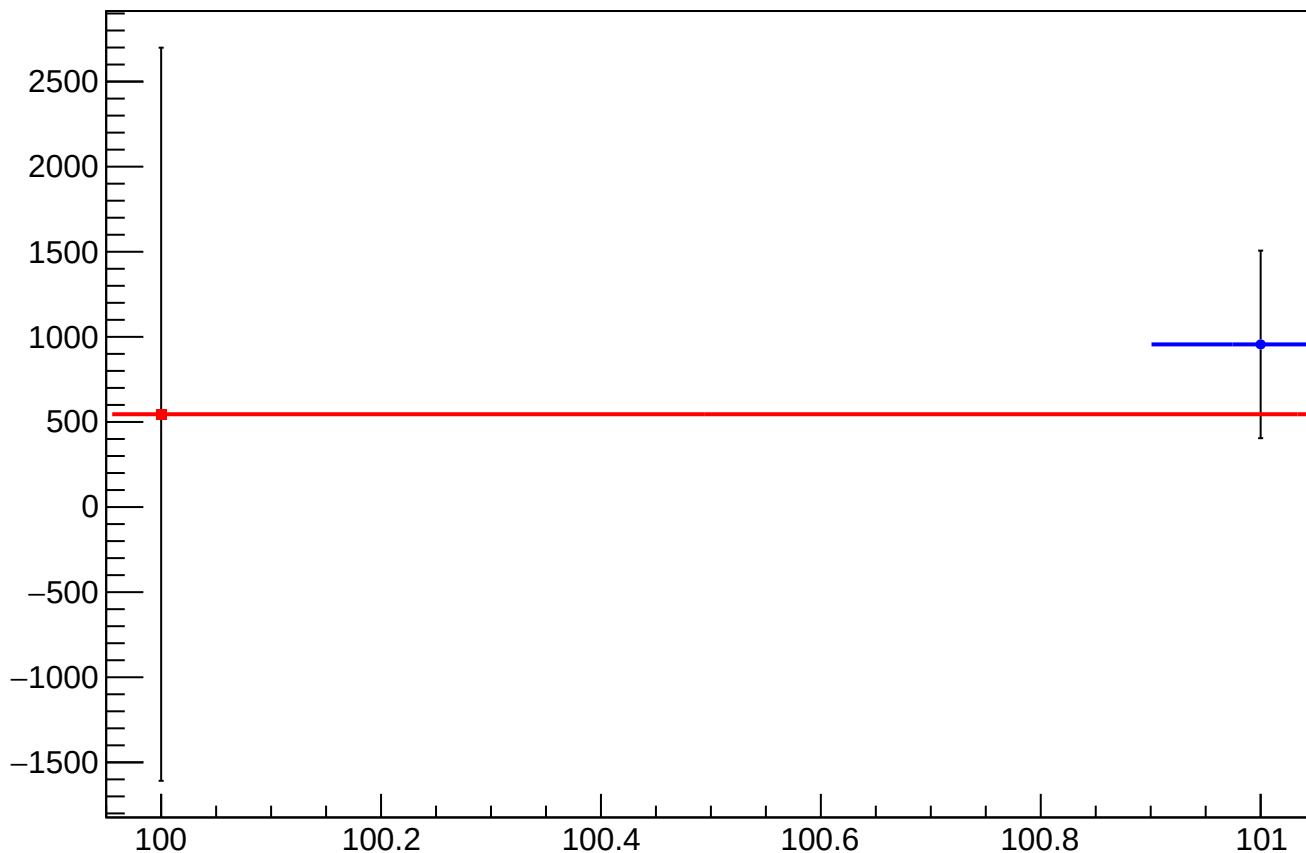
Right: 4453.757+/-3.709  $\chi^2/\text{NDF}$ : 13541.5/1

In: 4355.268+/-3.804  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4453.757+/-3.709  $\chi^2/\text{NDF}$ : 13541.5/1

# cor\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 955.763+/-551.034  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 545.405+/-2153.736  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

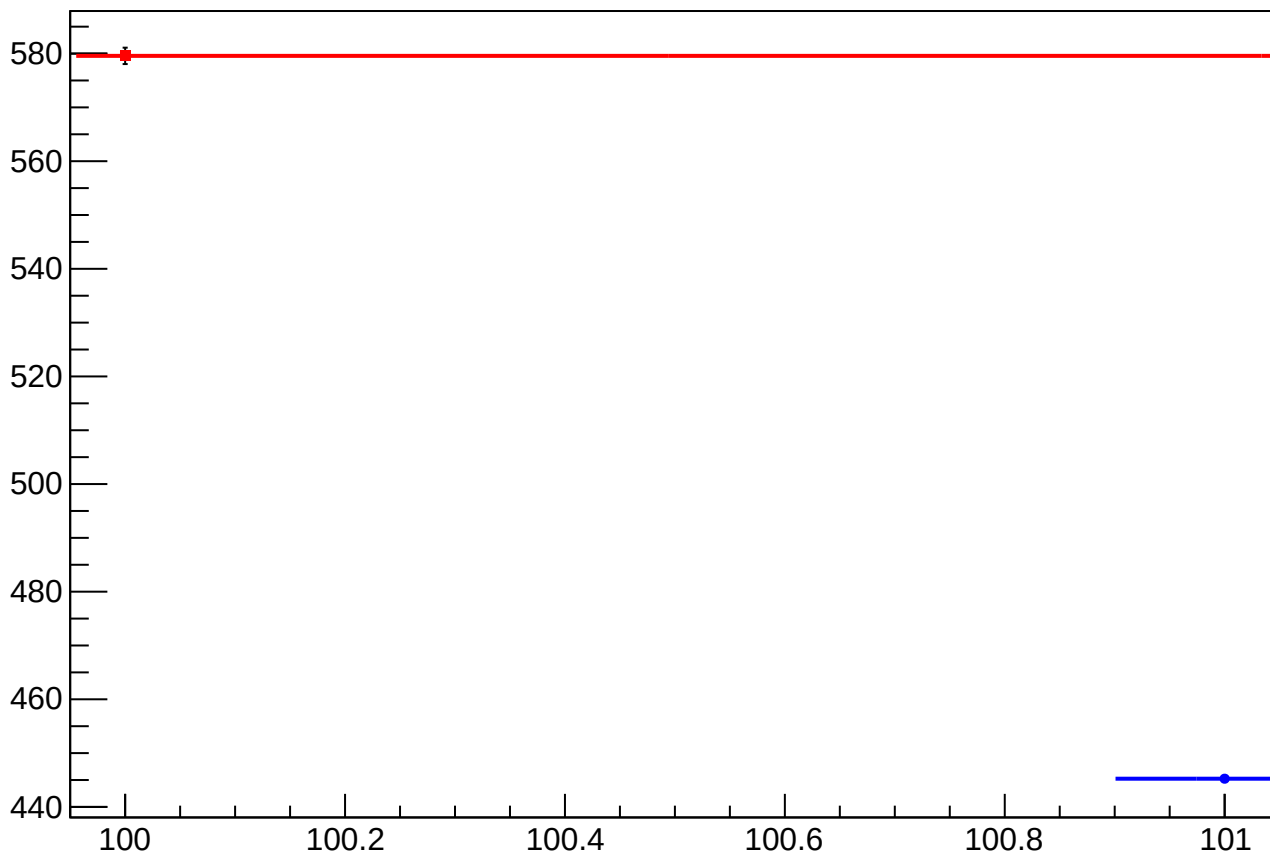
Right: 930.552+/-533.838  $\chi^2/\text{NDF}$ : 0.0/1

In: 955.763+/-551.034  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 930.552+/-533.838  $\chi^2/\text{NDF}$ : 0.0/1

# cor\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 445.243+/-0.390  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 579.574+/-1.523  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 453.496+/-0.377  $\chi^2/\text{NDF}$ : 7302.3/1

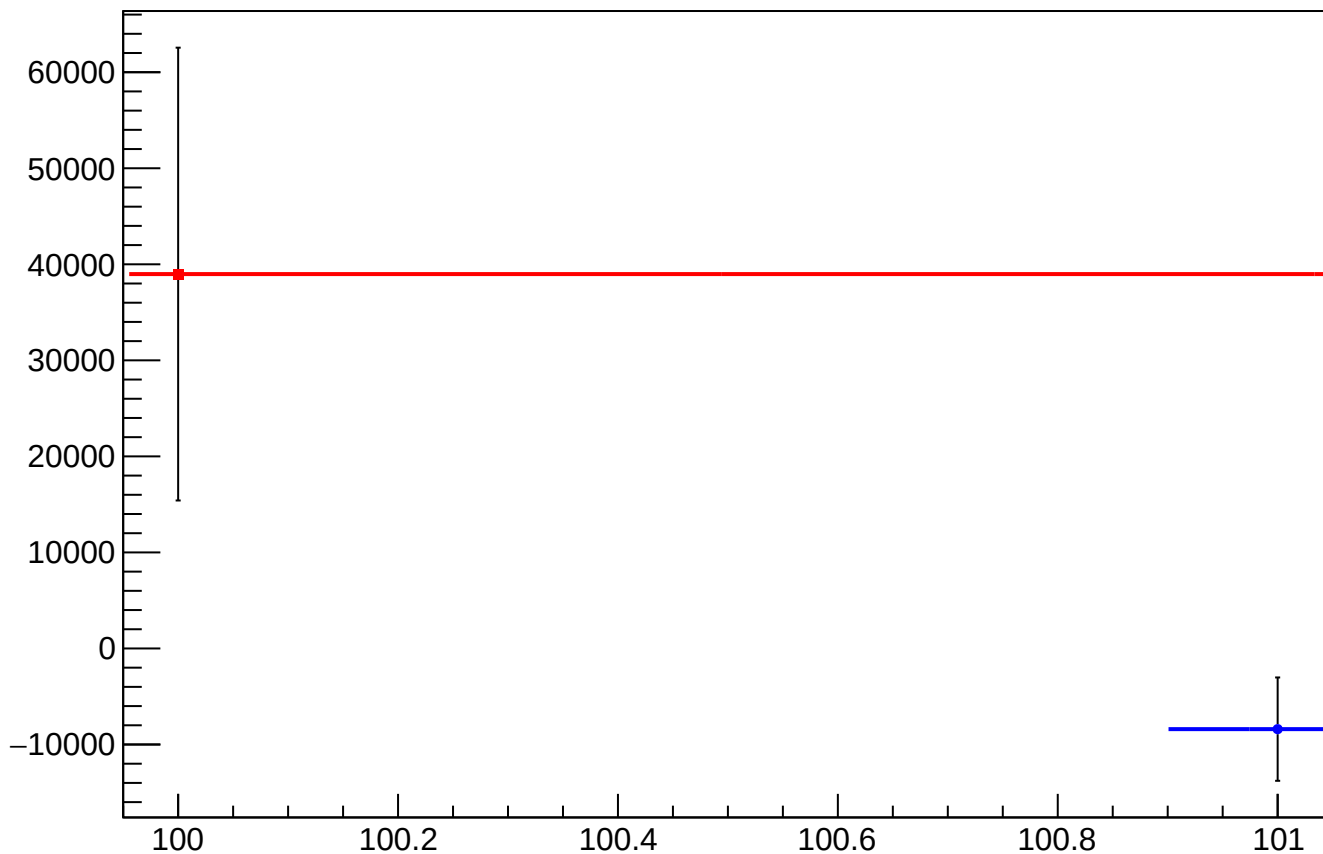
In: 445.243+/-0.390  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 453.496+/-0.377  $\chi^2/\text{NDF}$ : 7302.3/1



asym\_sam2\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -8399.864 $\pm$ 5379.812  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38981.406 $\pm$ 23574.236  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

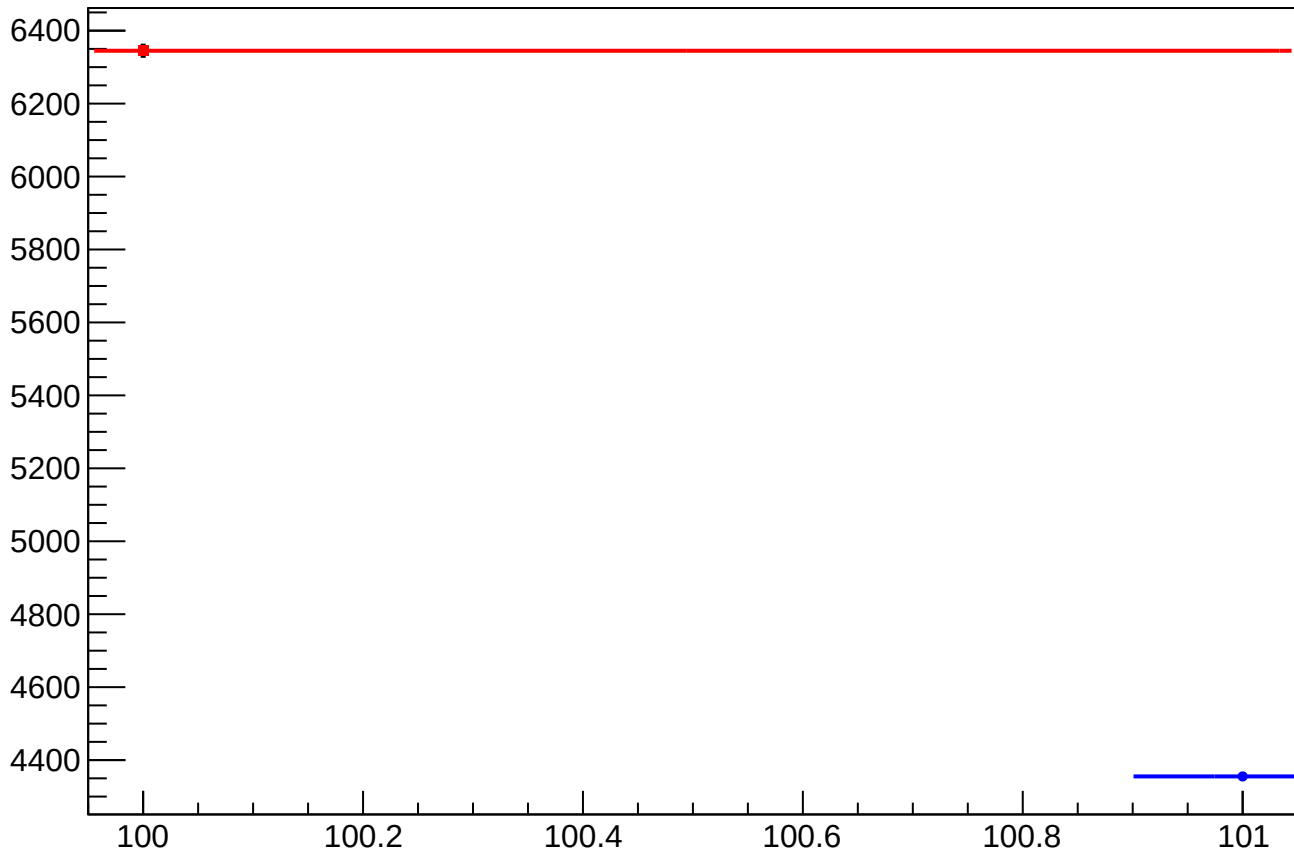
Right: -6054.461 $\pm$ 5244.970  $\chi^2/\text{NDF}$ : 3.8/1

In: -8399.864 $\pm$ 5379.812  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6054.461 $\pm$ 5244.970  $\chi^2/\text{NDF}$ : 3.8/1

asym\_sam2\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4355.275+/-3.804  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6344.933+/-16.670  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

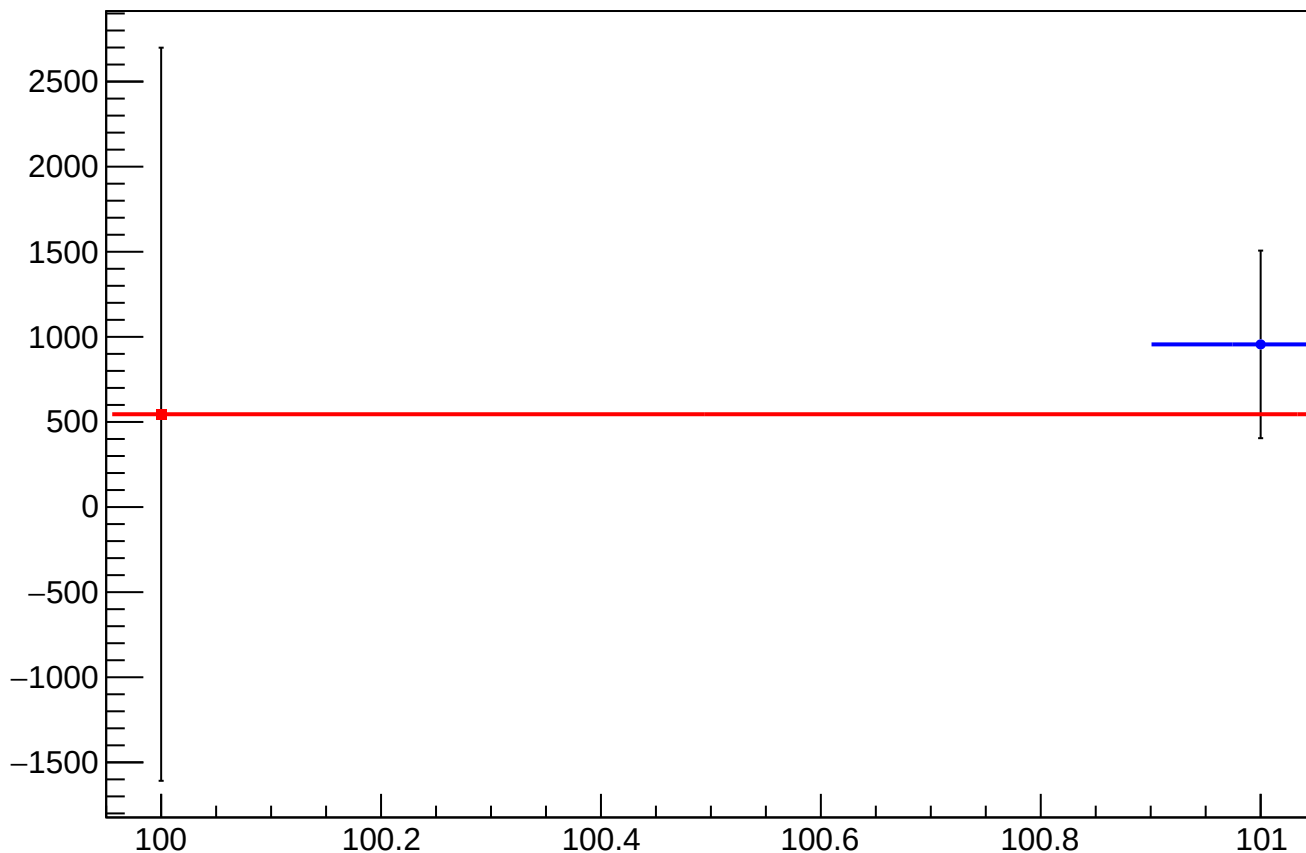
Right: 4453.765+/-3.709  $\chi^2/\text{NDF}$ : 13541.4/1

In: 4355.275+/-3.804  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4453.765+/-3.709  $\chi^2/\text{NDF}$ : 13541.4/1

eigen\_cor\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 955.763 $\pm$ 551.034  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 545.405 $\pm$ 2153.736  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

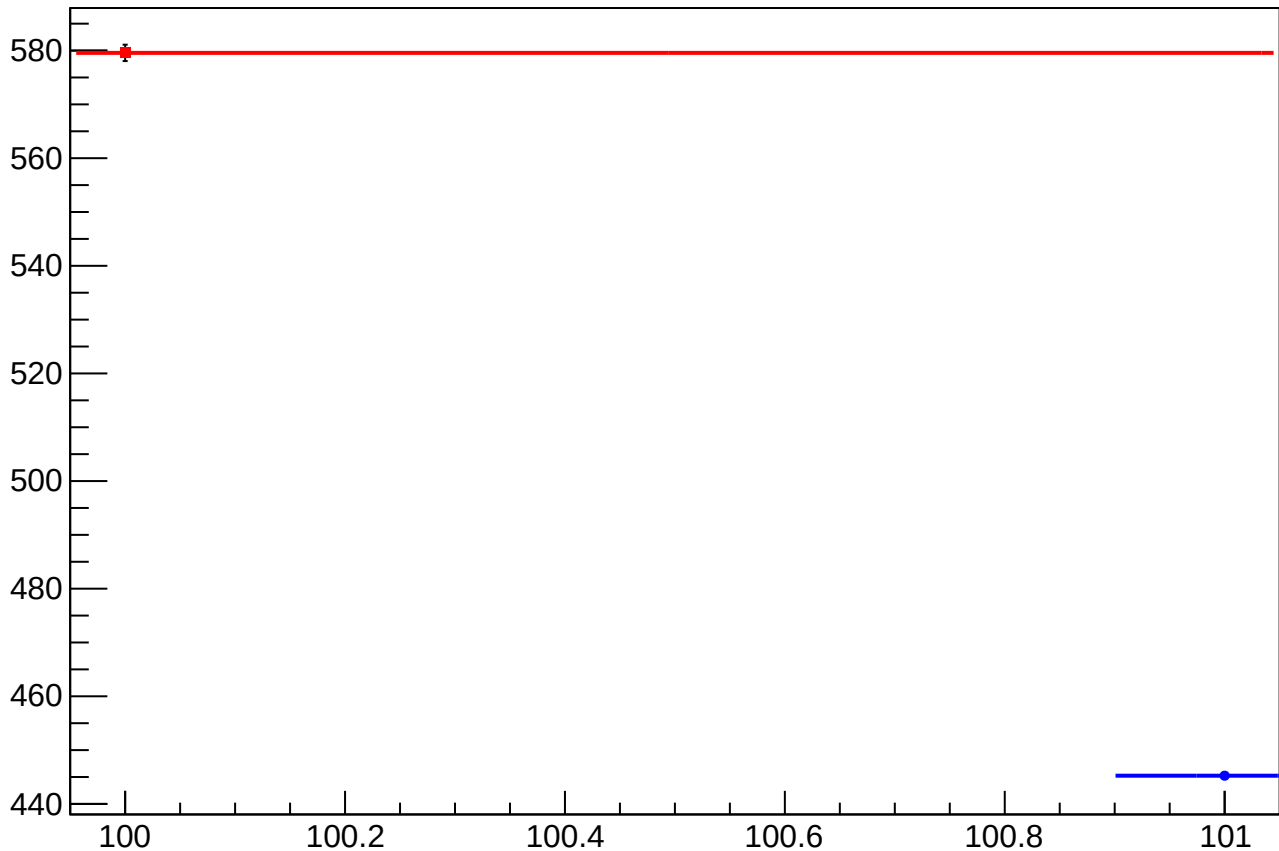
Right: 930.552 $\pm$ 533.838  $\chi^2$ /NDF: 0.0/1

In: 955.763 $\pm$ 551.034  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 930.552 $\pm$ 533.838  $\chi^2$ /NDF: 0.0/1

# eigen\_cor\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 445.243+/-0.390  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 579.574+/-1.523  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

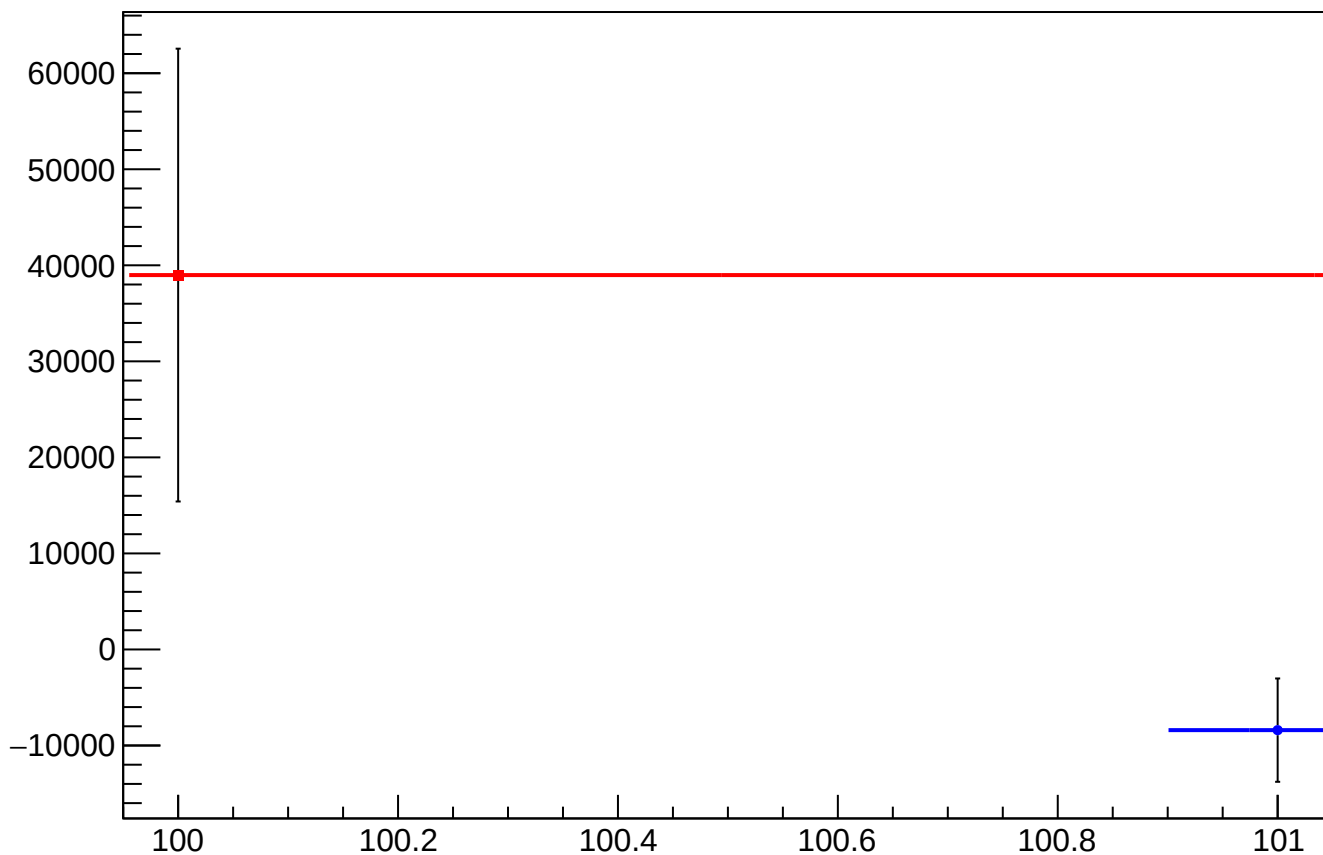
Right: 453.496+/-0.377  $\chi^2/\text{NDF}$ : 7302.3/1

In: 445.243+/-0.390  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 453.496+/-0.377  $\chi^2/\text{NDF}$ : 7302.3/1

asym\_sam2\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -8399.864+/-5379.812  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38981.406+/-23574.236  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

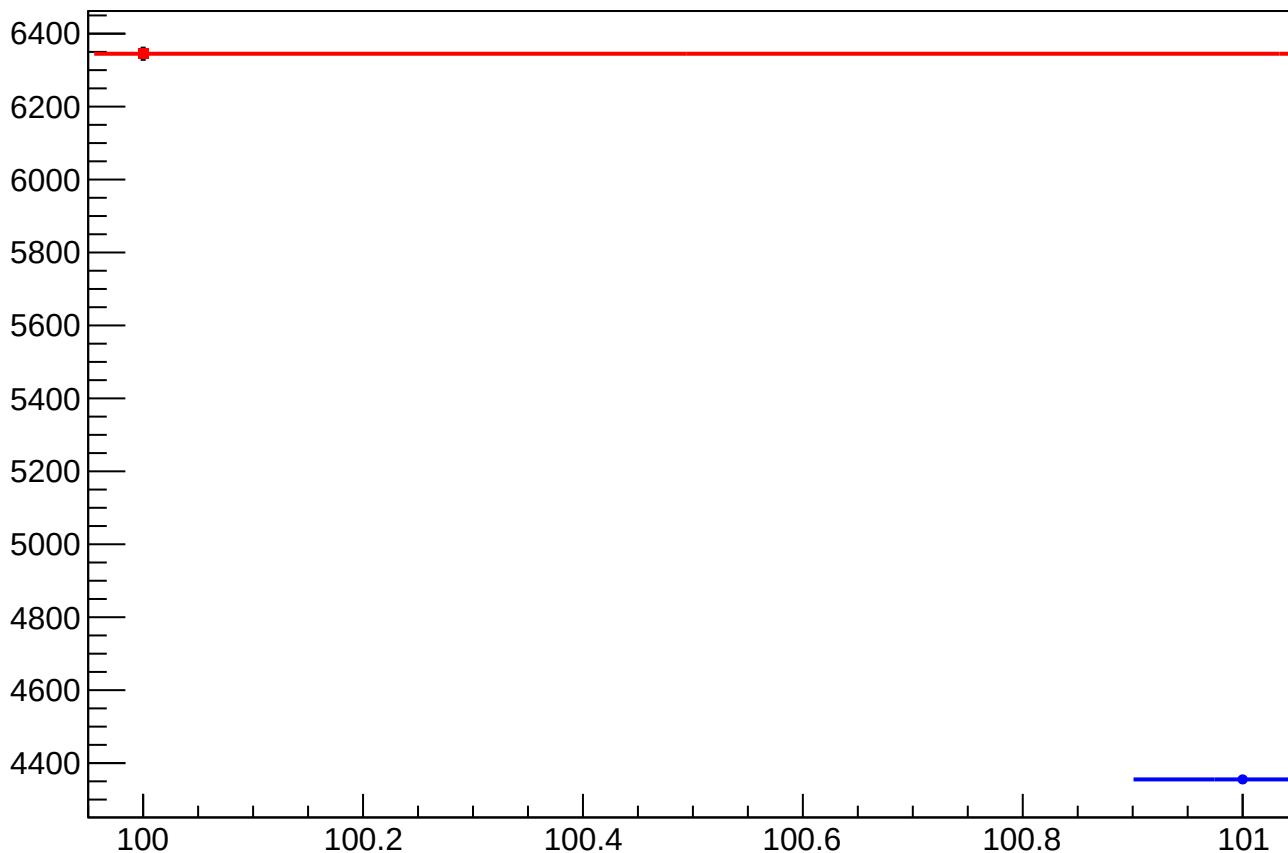
Right: -6054.461+/-5244.970  $\chi^2/\text{NDF}$ : 3.8/1

In: -8399.864+/-5379.812  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6054.461+/-5244.970  $\chi^2/\text{NDF}$ : 3.8/1

asym\_sam2\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 4355.275+/-3.804  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6344.933+/-16.670  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

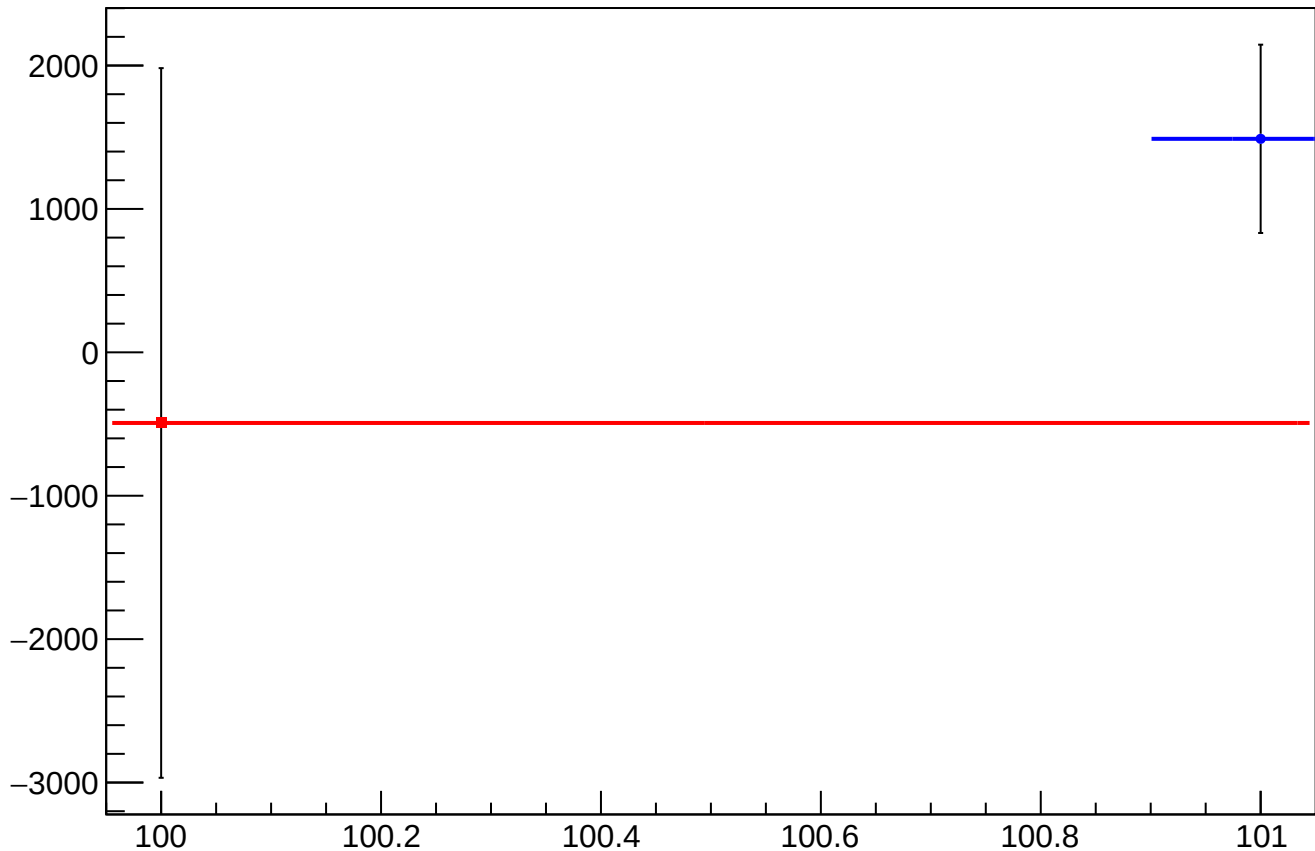
Right: 4453.765+/-3.709  $\chi^2/\text{NDF}$ : 13541.4/1

In: 4355.275+/-3.804  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4453.765+/-3.709  $\chi^2/\text{NDF}$ : 13541.4/1

# dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 1488.859+/-656.593  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -492.552+/-2474.434  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

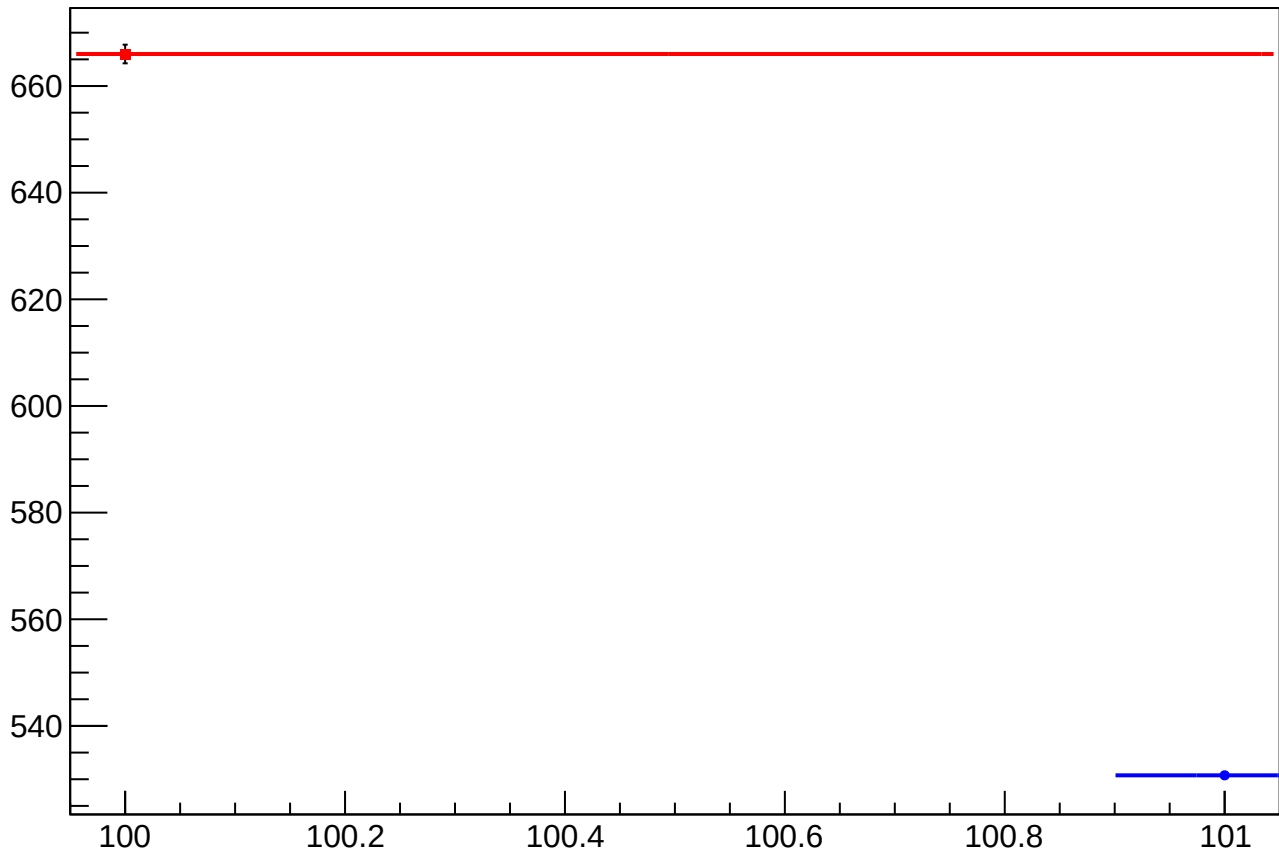
Right: 1358.523+/-634.631  $\chi^2/\text{NDF}$ : 0.6/1

In: 1488.859+/-656.593  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1358.523+/-634.631  $\chi^2/\text{NDF}$ : 0.6/1

# dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 530.735 $\pm$ 0.464  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 666.004 $\pm$ 1.750  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 539.633 $\pm$ 0.449  $\chi^2$ /NDF: 5583.7/1

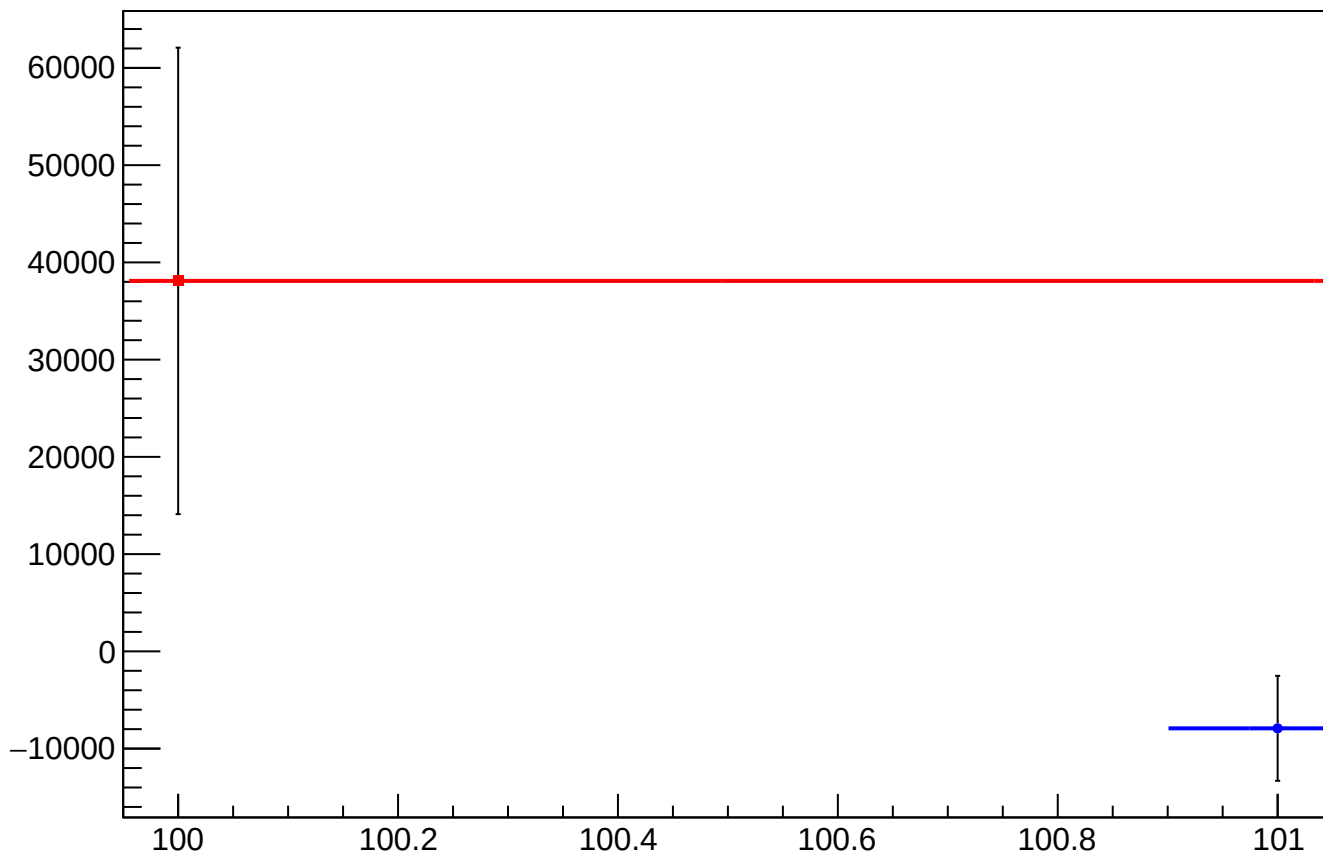
In: 530.735 $\pm$ 0.464  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 539.633 $\pm$ 0.449  $\chi^2$ /NDF: 5583.7/1



asym\_sam2\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -7916.019+/-5395.566  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38097.488+/-23984.974  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

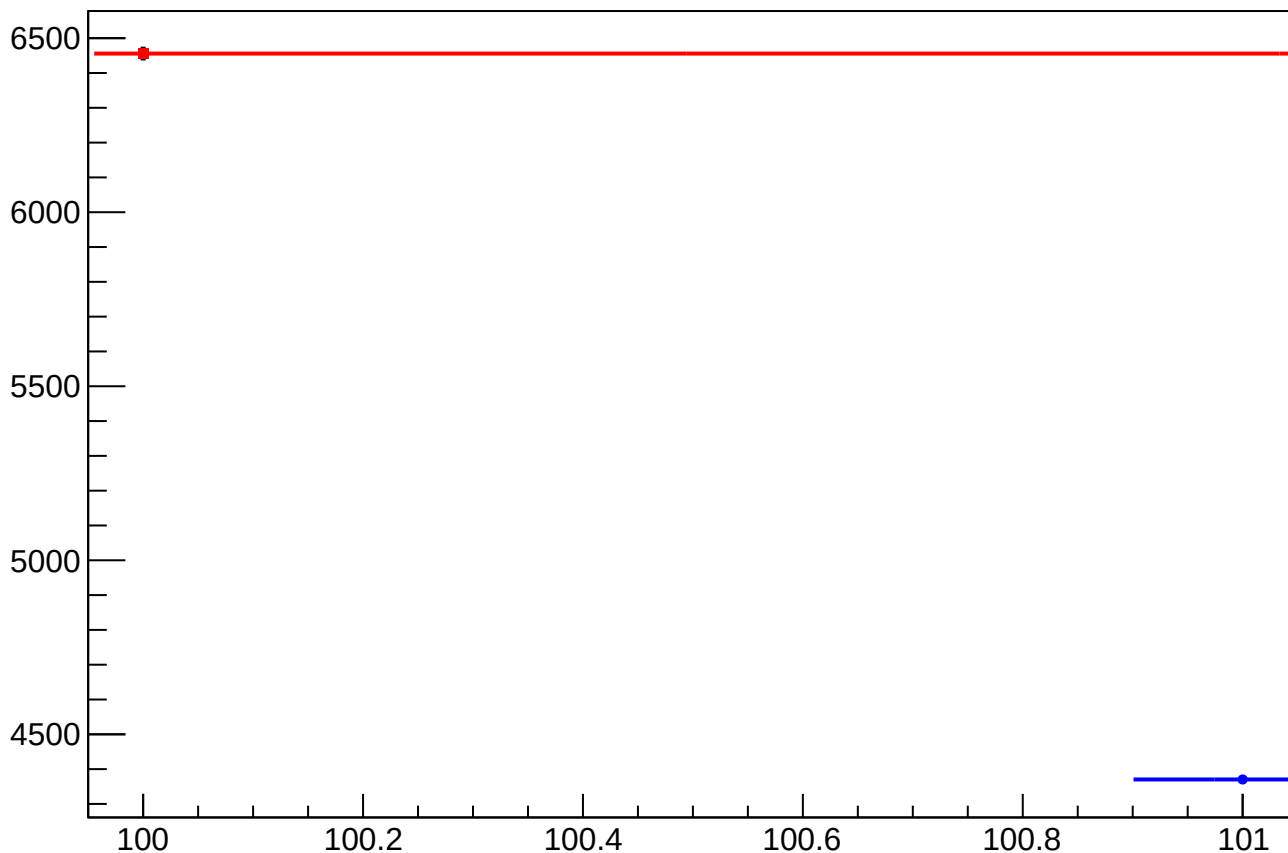
Right: -5699.654+/-5264.017  $\chi^2/\text{NDF}$ : 3.5/1

In: -7916.019+/-5395.566  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5699.654+/-5264.017  $\chi^2/\text{NDF}$ : 3.5/1

asym\_sam2\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4370.277+/-3.815  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6455.790+/-16.960  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

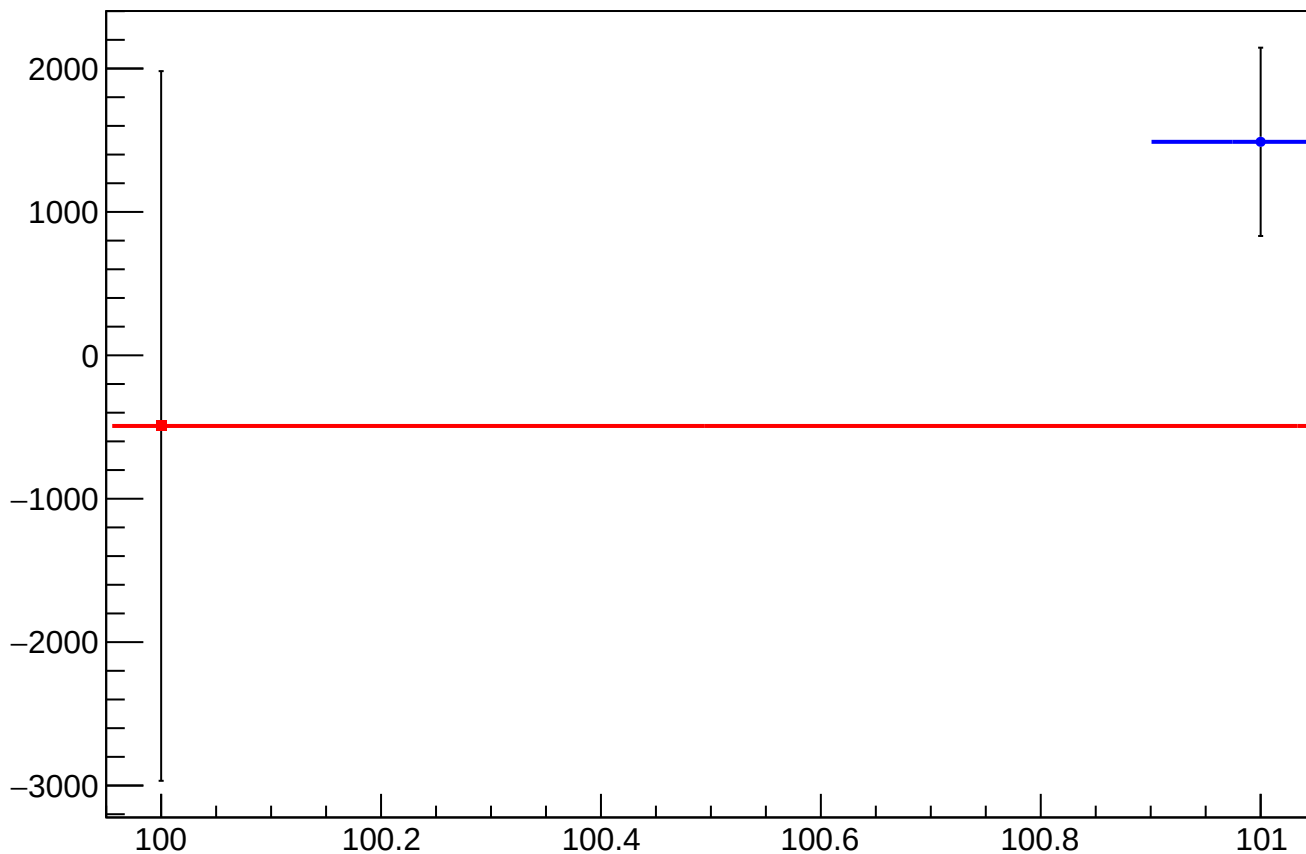
Right: 4470.732+/-3.722  $\chi^2/\text{NDF}$ : 14392.5/1

In: 4370.277+/-3.815  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4470.732+/-3.722  $\chi^2/\text{NDF}$ : 14392.5/1

eigen\_dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 1488.856 $\pm$ 656.593  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -492.541 $\pm$ 2474.434  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

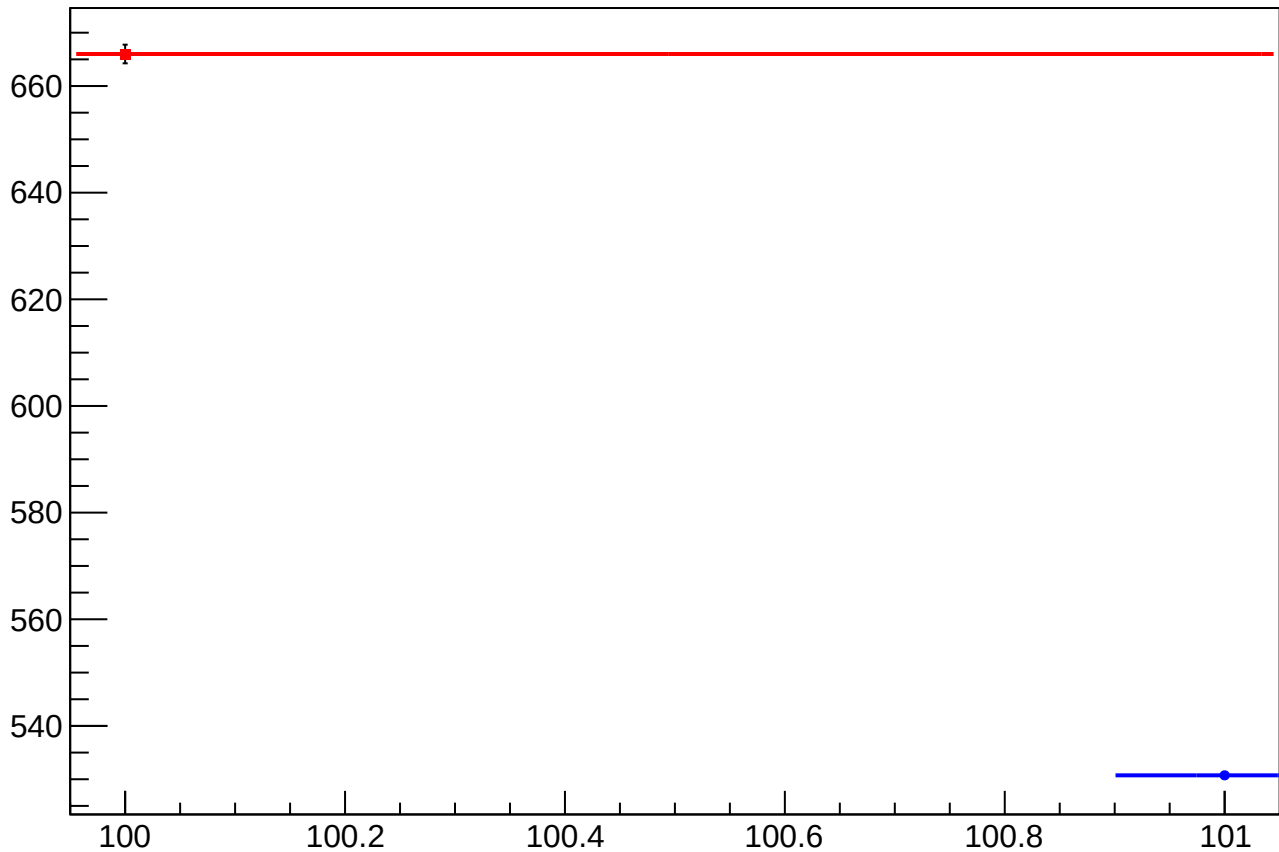
Right: 1358.520 $\pm$ 634.631  $\chi^2$ /NDF: 0.6/1

In: 1488.856 $\pm$ 656.593  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 1358.520 $\pm$ 634.631  $\chi^2$ /NDF: 0.6/1

# eigen\_dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 530.735 $\pm$ 0.464  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 666.004 $\pm$ 1.750  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

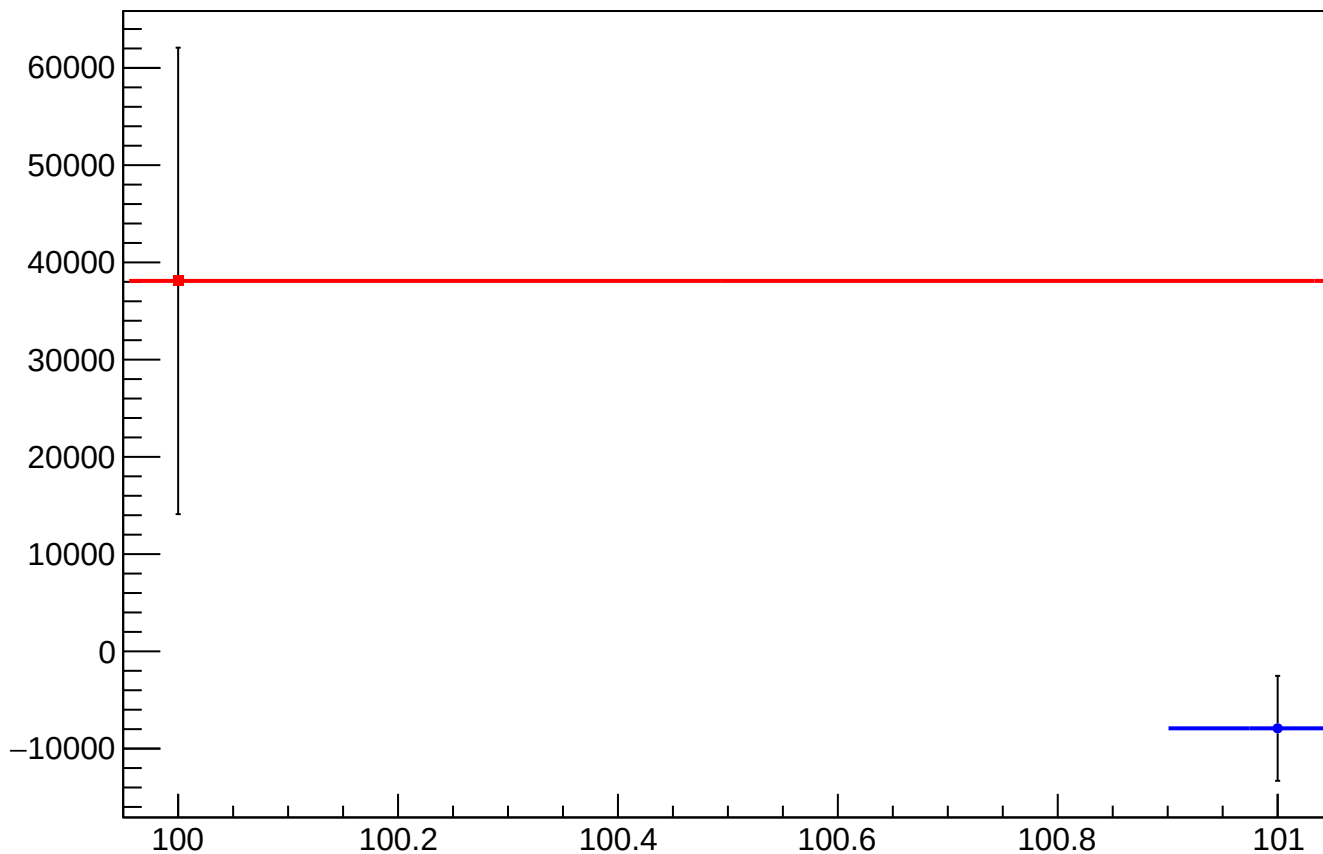
Right: 539.633 $\pm$ 0.449  $\chi^2$ /NDF: 5583.7/1

In: 530.735 $\pm$ 0.464  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 539.633 $\pm$ 0.449  $\chi^2$ /NDF: 5583.7/1

asym\_sam2\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -7916.022+/-5395.563  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38097.501+/-23984.973  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

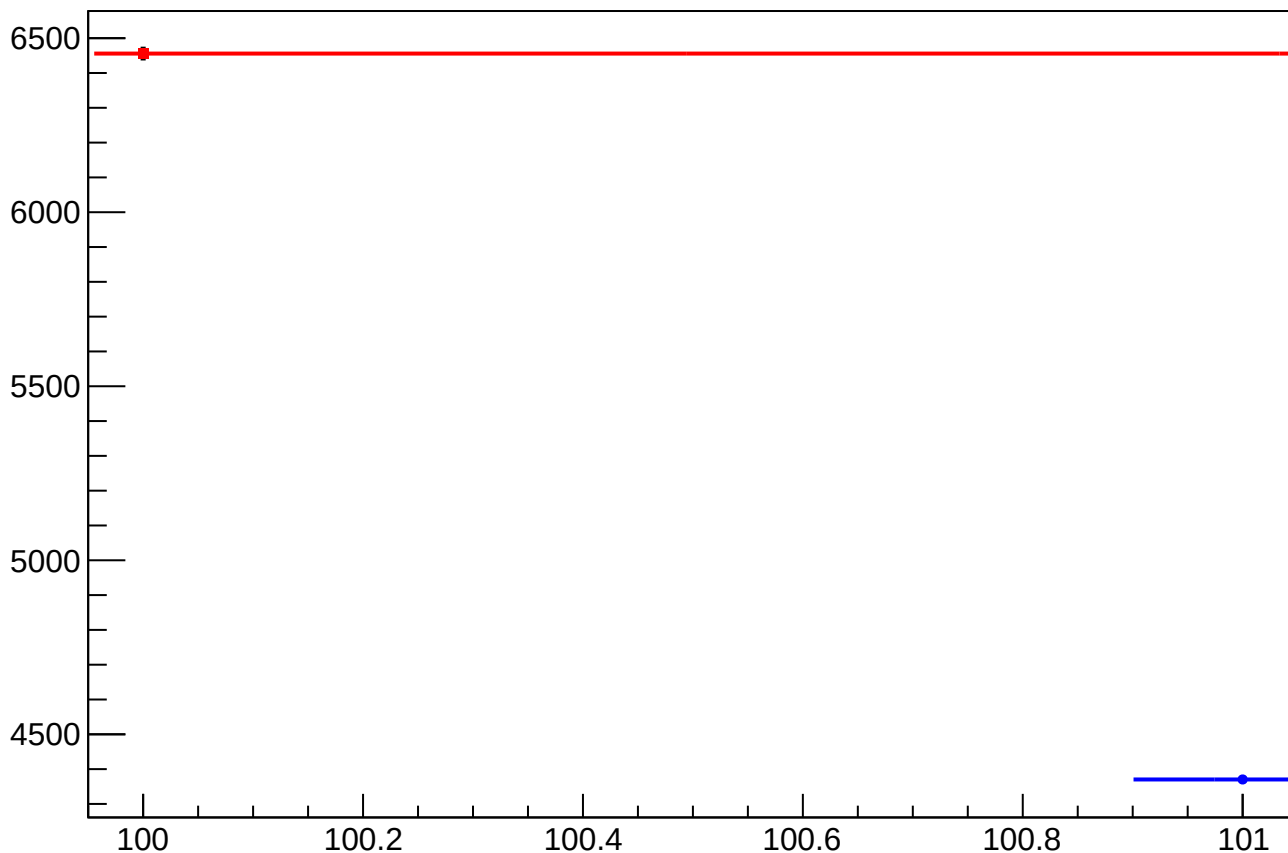
Right: -5699.658+/-5264.013  $\chi^2/\text{NDF}$ : 3.5/1

In: -7916.022+/-5395.563  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5699.658+/-5264.013  $\chi^2/\text{NDF}$ : 3.5/1

asym\_sam2\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 4370.274+/-3.815  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6455.790+/-16.960  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

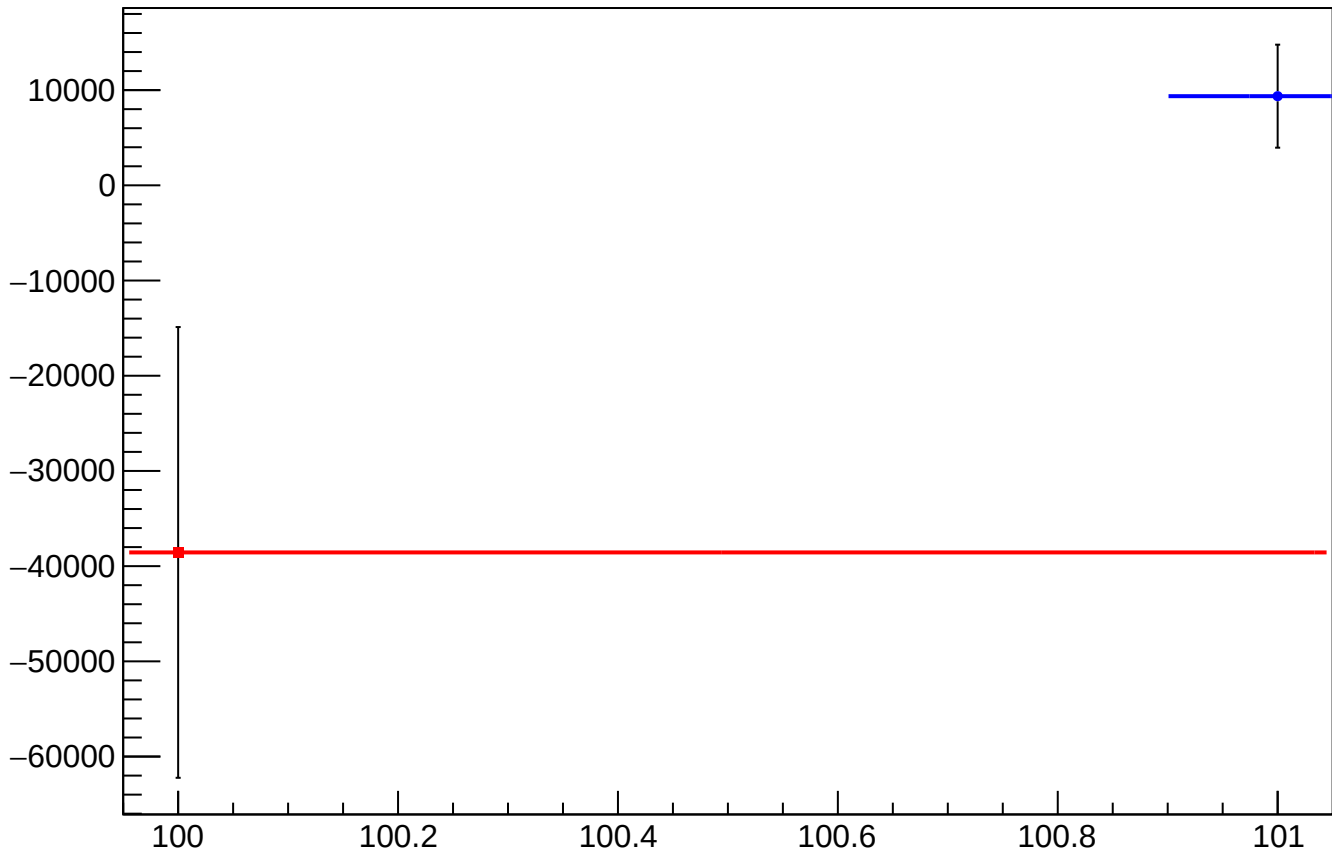
Right: 4470.729+/-3.722  $\chi^2/\text{NDF}$ : 14392.6/1

In: 4370.274+/-3.815  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4470.729+/-3.722  $\chi^2/\text{NDF}$ : 14392.6/1

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 9364.268+/-5409.736  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -38558.706+/-23672.564  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

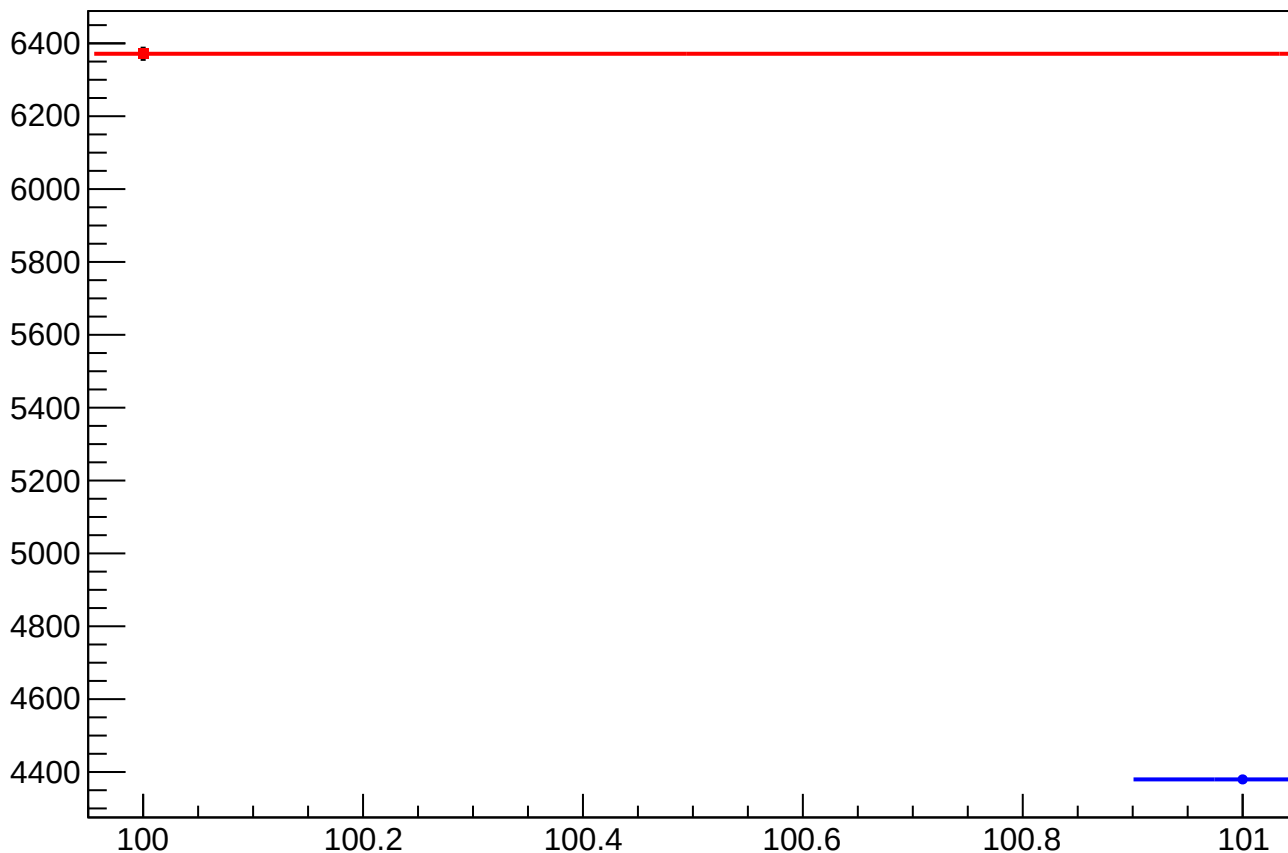
Right: 6985.799+/-5273.782  $\chi^2/\text{NDF}$ : 3.9/1

In: 9364.268+/-5409.736  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6985.799+/-5273.782  $\chi^2/\text{NDF}$ : 3.9/1

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 4379.690 $\pm$ 3.825  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6371.400 $\pm$ 16.739  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 4478.541 $\pm$ 3.729  $\chi^2$ /NDF: 13455.0/1

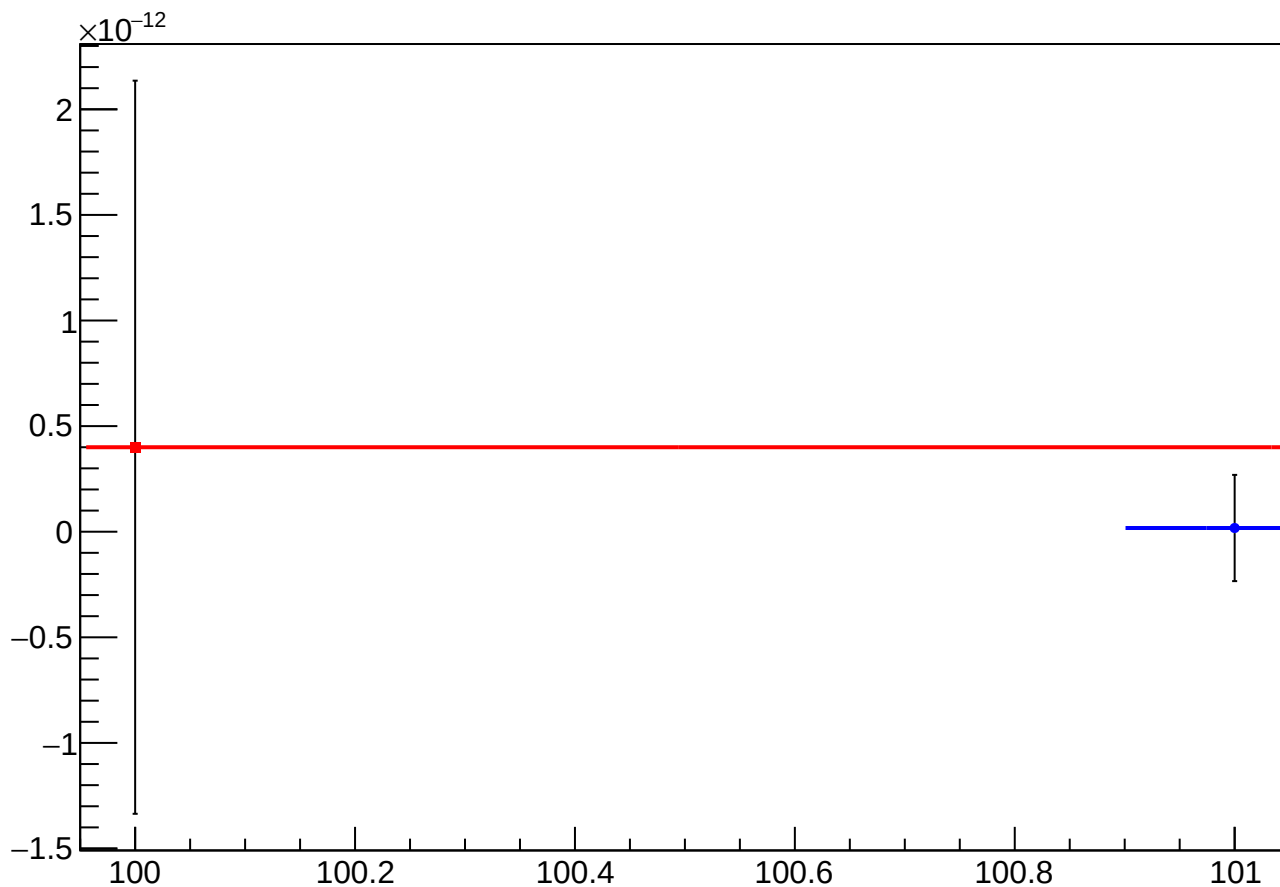
In: 4379.690 $\pm$ 3.825  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 4478.541 $\pm$ 3.729  $\chi^2$ /NDF: 13455.0/1



asym\_sam2\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

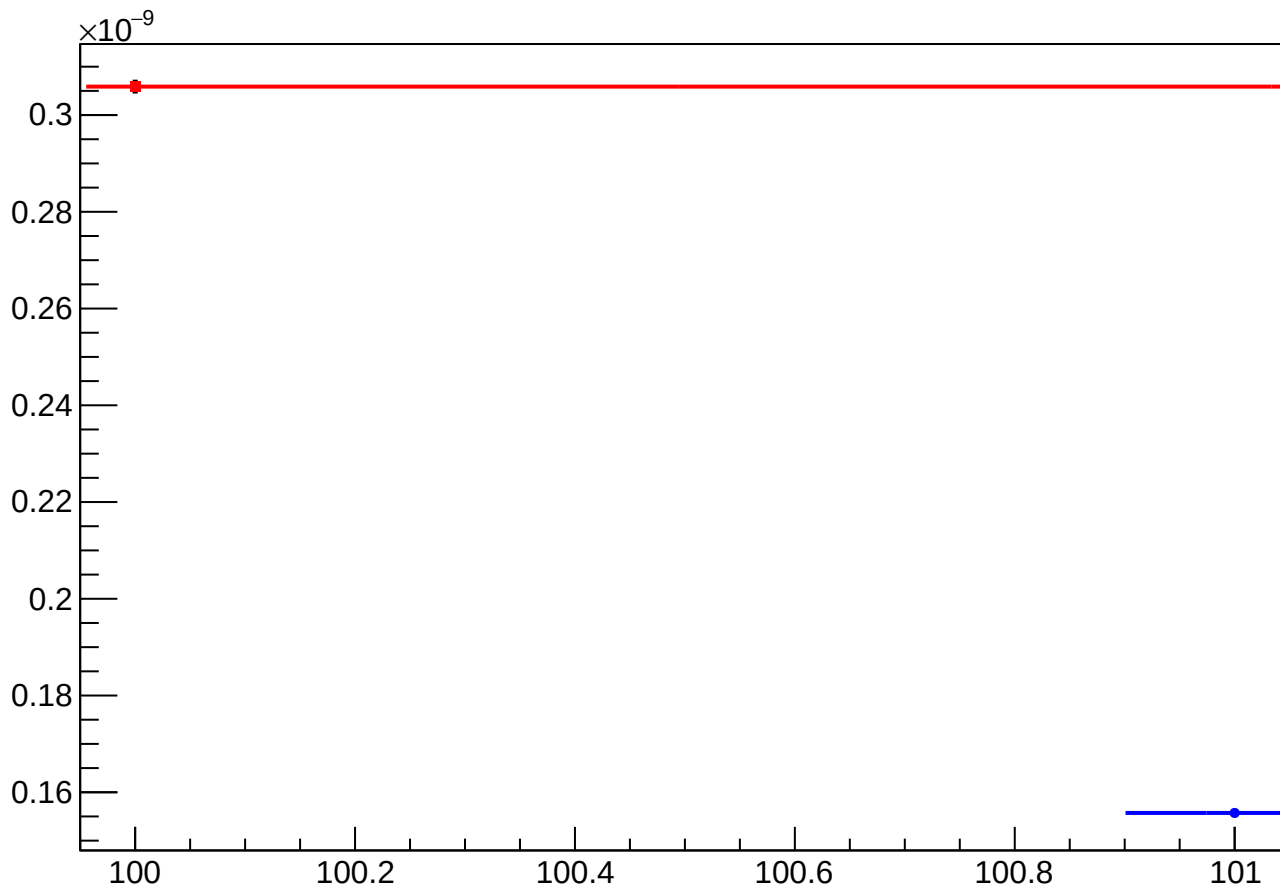
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam2\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

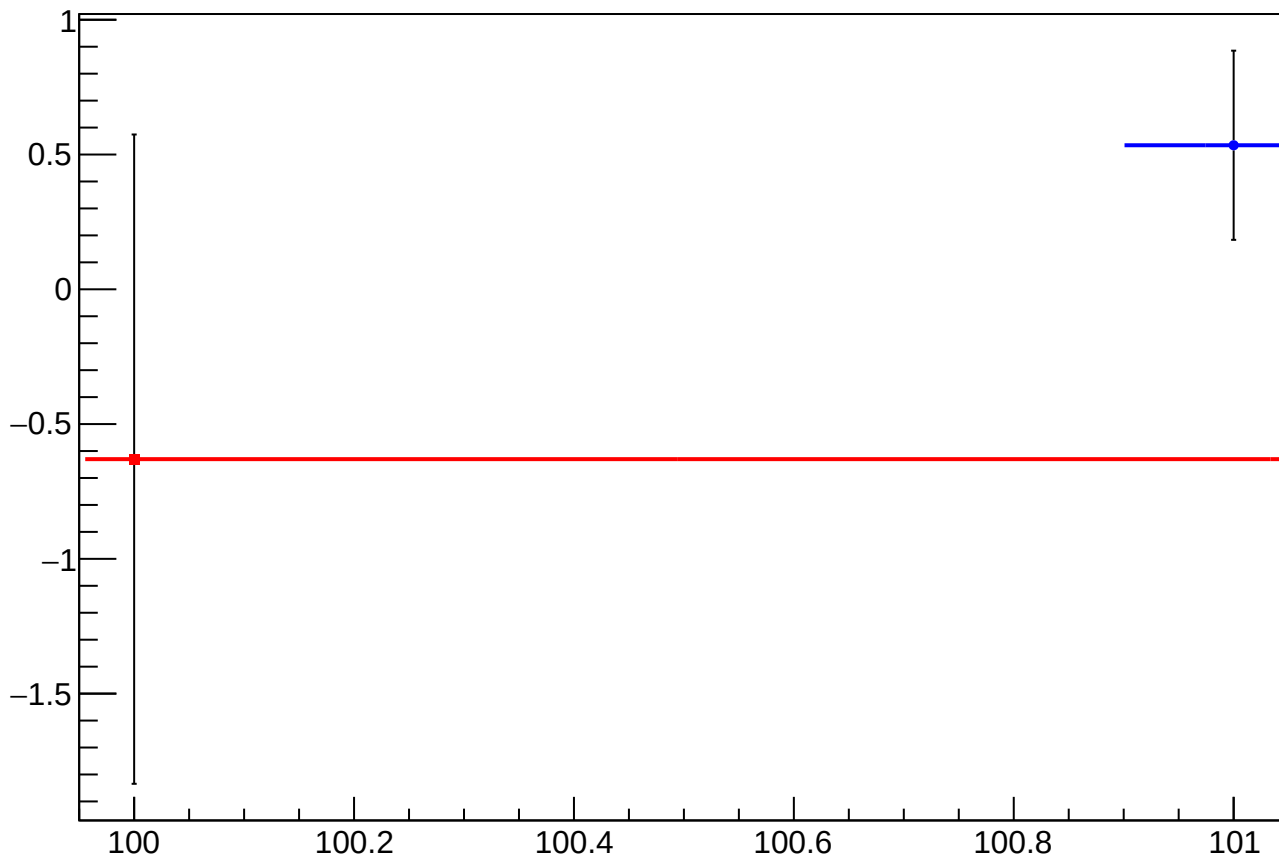
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14661.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14661.4/1

asym\_sam2\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.534 $\pm$ 0.351  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.630 $\pm$ 1.204  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

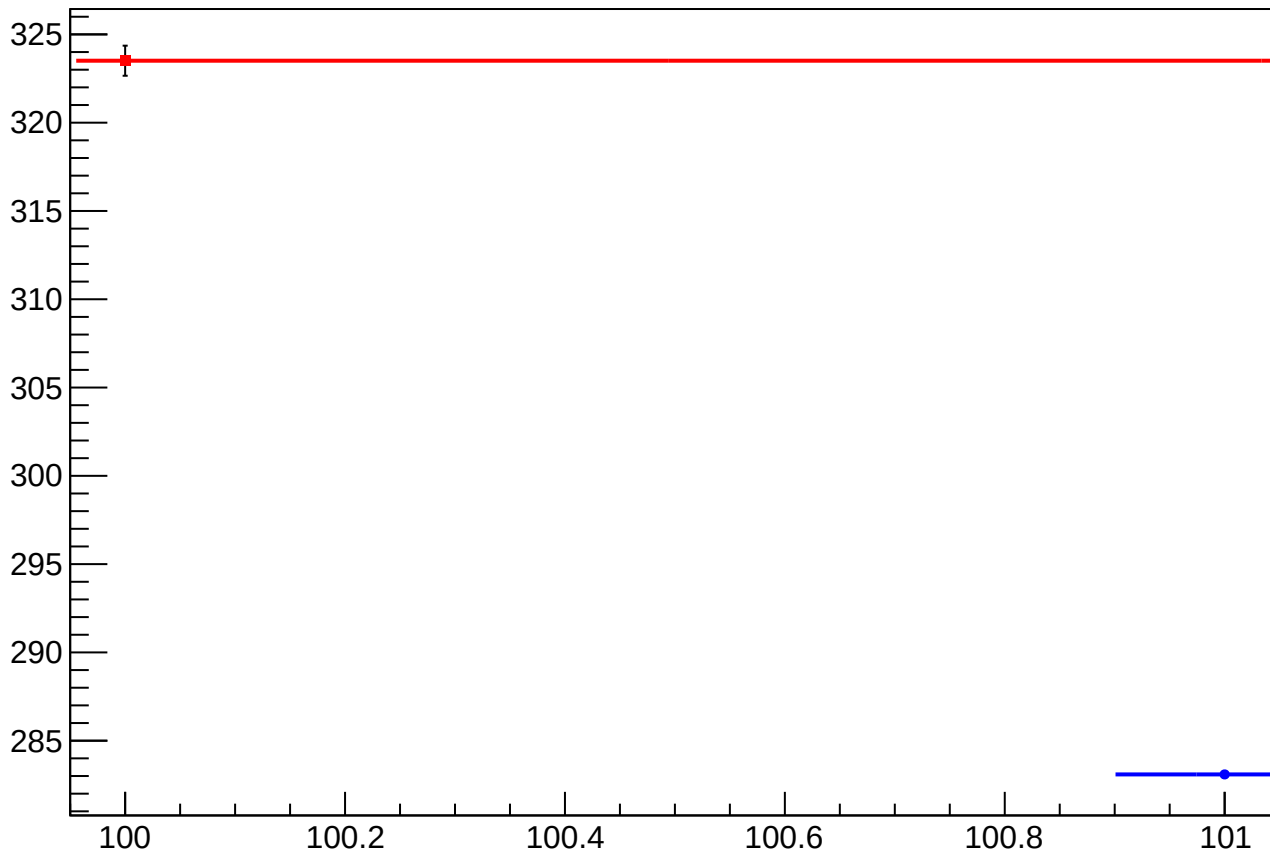
Right: 0.443 $\pm$ 0.337  $\chi^2$ /NDF: 0.9/1

In: 0.534 $\pm$ 0.351  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.443 $\pm$ 0.337  $\chi^2$ /NDF: 0.9/1

asym\_sam2\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 283.090 $\pm$ 0.248  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 323.510 $\pm$ 0.852  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

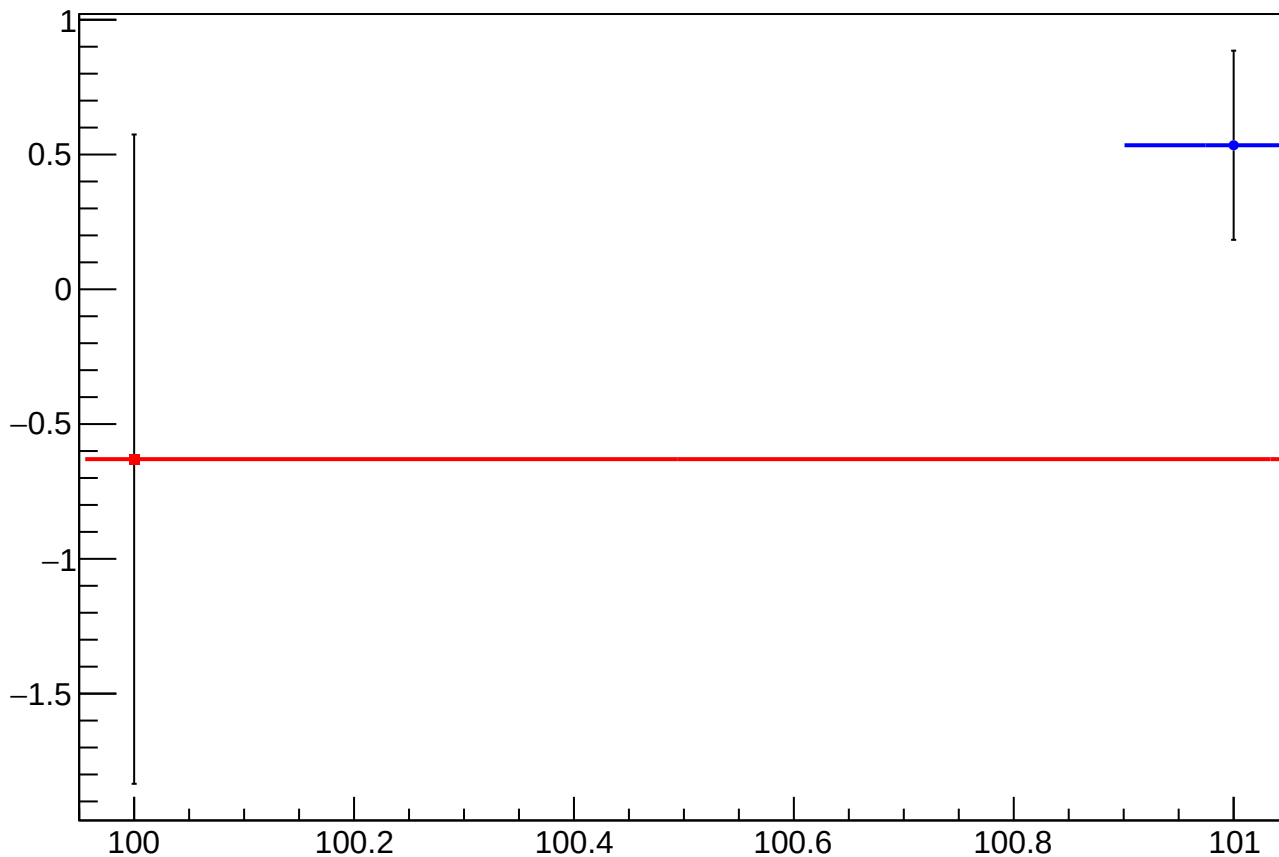
Right: 286.253 $\pm$ 0.238  $\chi^2$ /NDF: 2076.1/1

In: 283.090 $\pm$ 0.248  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 286.253 $\pm$ 0.238  $\chi^2$ /NDF: 2076.1/1

asym\_sam2\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.534 $\pm$ 0.351  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.630 $\pm$ 1.204  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

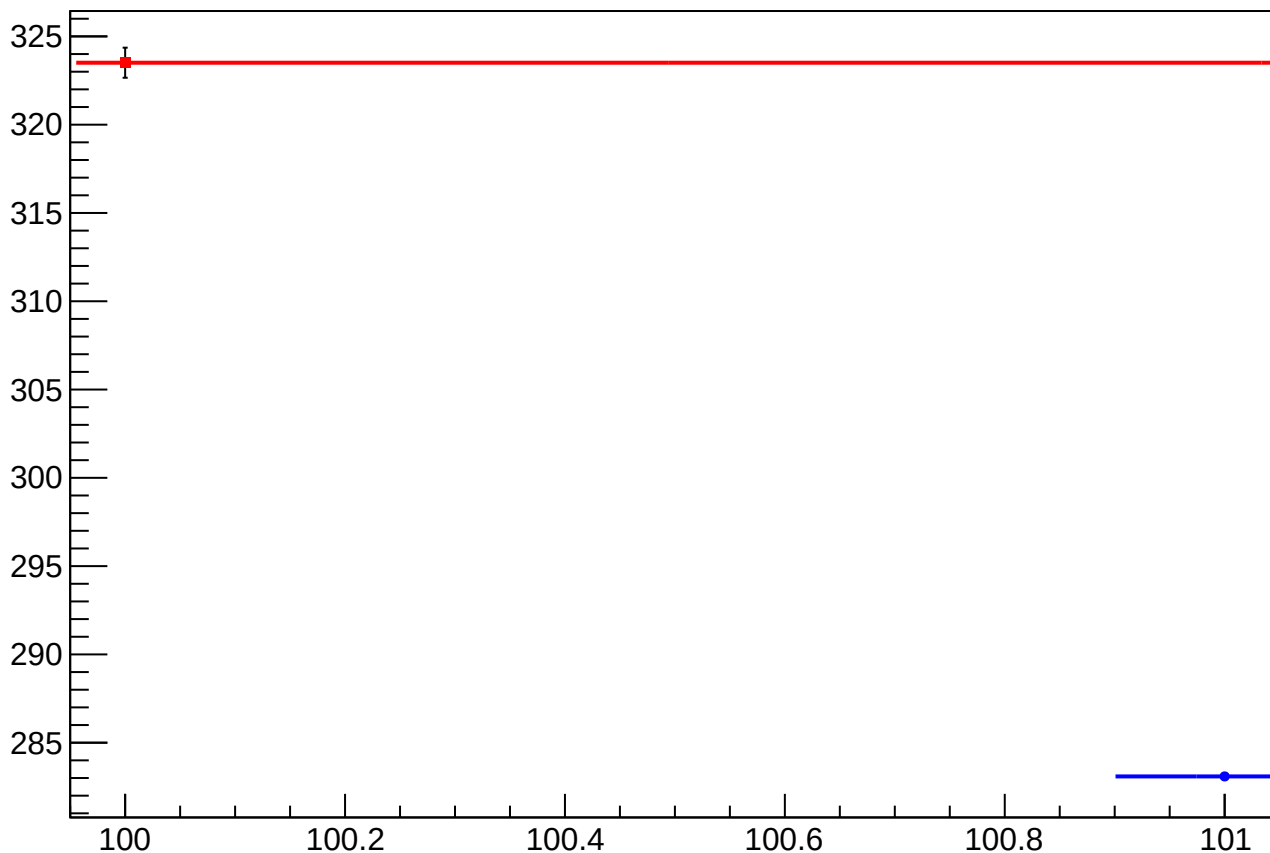
Right: 0.443 $\pm$ 0.337  $\chi^2$ /NDF: 0.9/1

In: 0.534 $\pm$ 0.351  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.443 $\pm$ 0.337  $\chi^2$ /NDF: 0.9/1

asym\_sam2\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 283.090 $\pm$ 0.248  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 323.510 $\pm$ 0.852  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

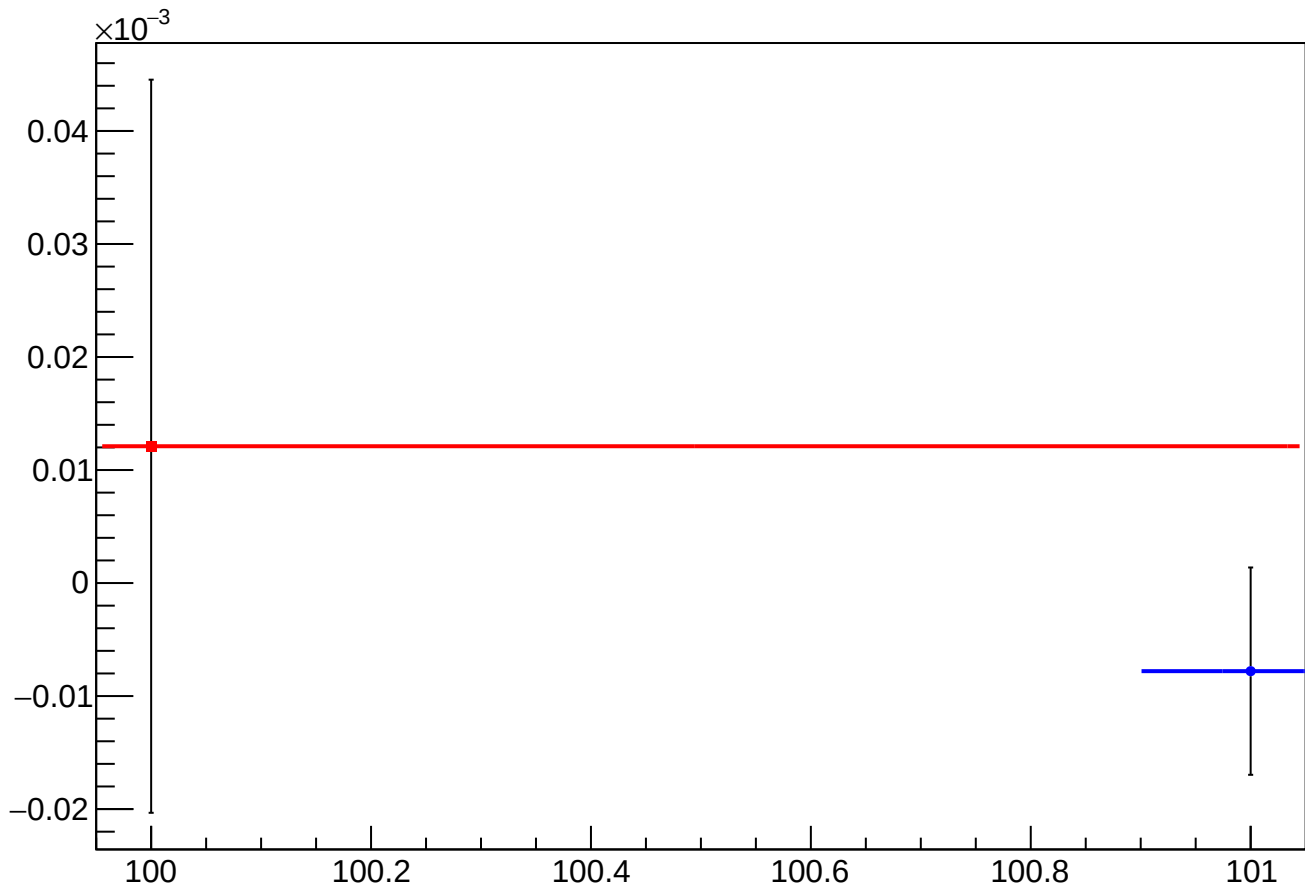
Right: 286.253 $\pm$ 0.238  $\chi^2$ /NDF: 2076.1/1

In: 283.090 $\pm$ 0.248  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 286.253 $\pm$ 0.238  $\chi^2$ /NDF: 2076.1/1

asym\_sam2\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

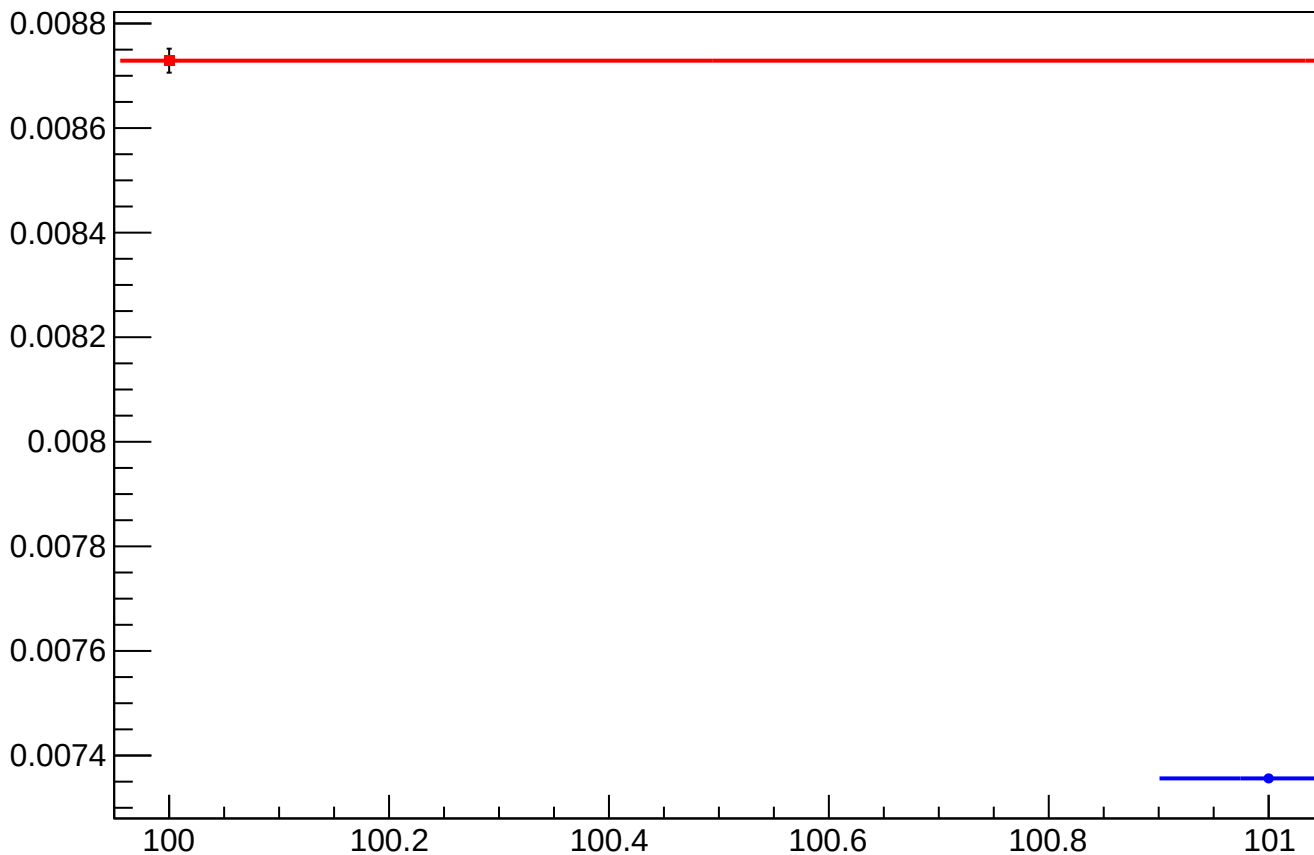
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.3/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.3/1

asym\_sam2\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.009 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 3317.2/1

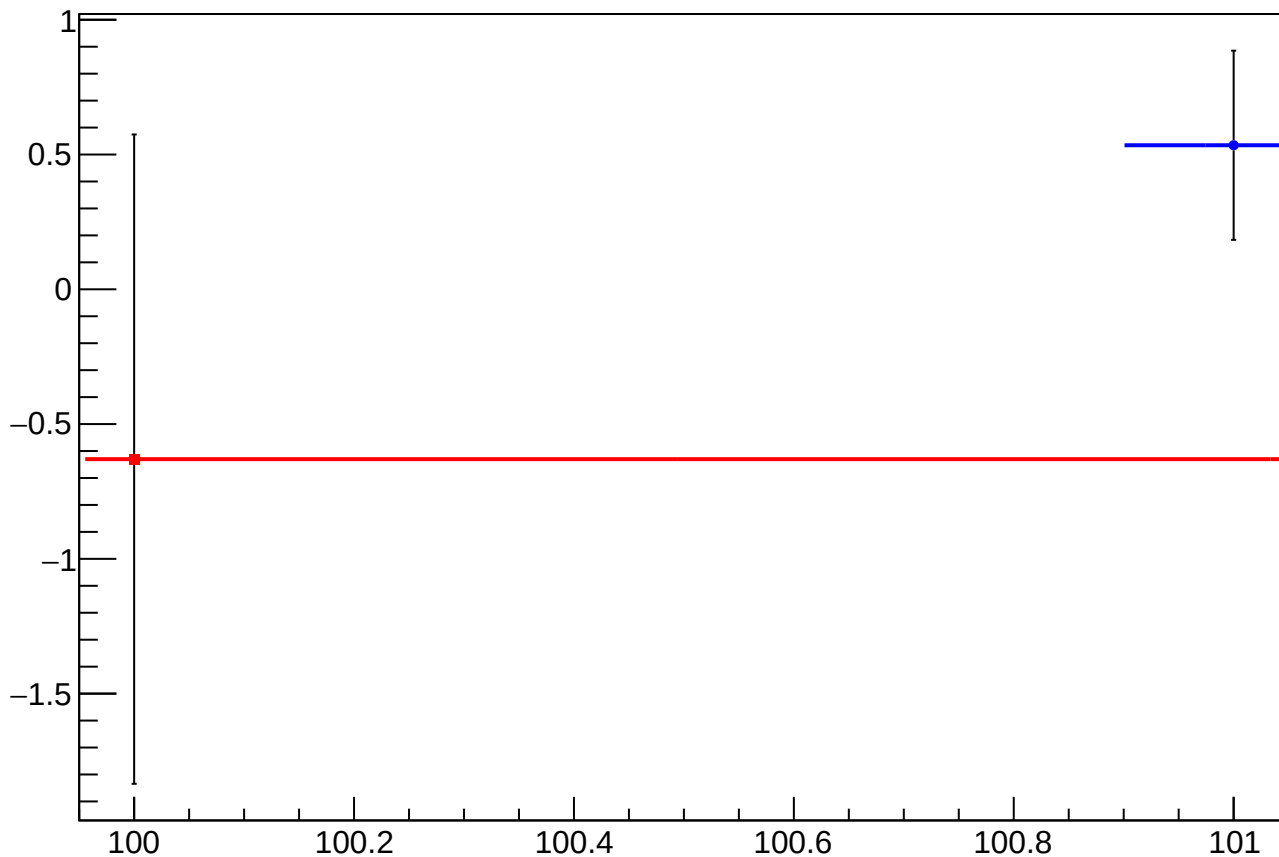
In: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 3317.2/1



asym\_sam2\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.534 $\pm$ 0.351  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.630 $\pm$ 1.204  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

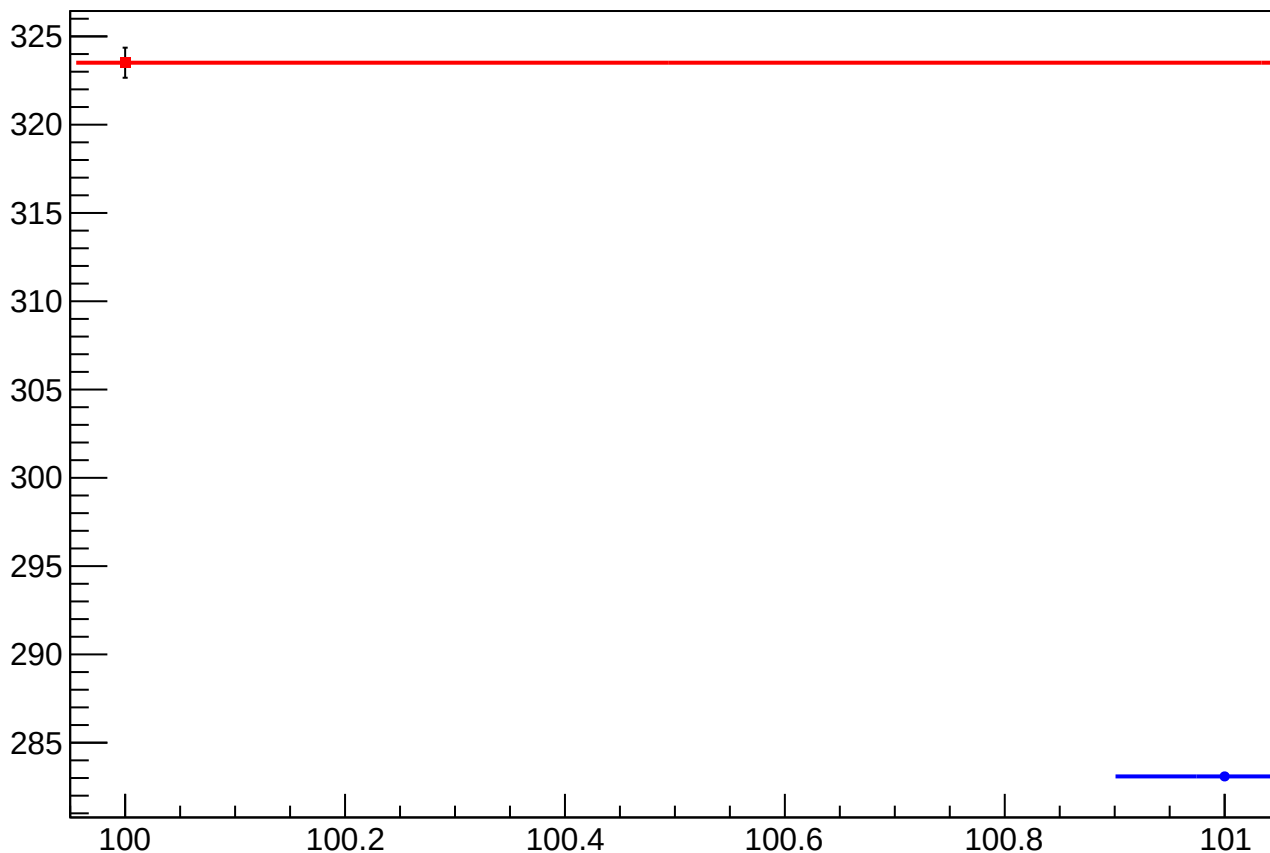
Right: 0.443 $\pm$ 0.337  $\chi^2/\text{NDF}$ : 0.9/1

In: 0.534 $\pm$ 0.351  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.443 $\pm$ 0.337  $\chi^2/\text{NDF}$ : 0.9/1

asym\_sam2\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 283.091 $\pm$ 0.248  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 323.509 $\pm$ 0.852  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

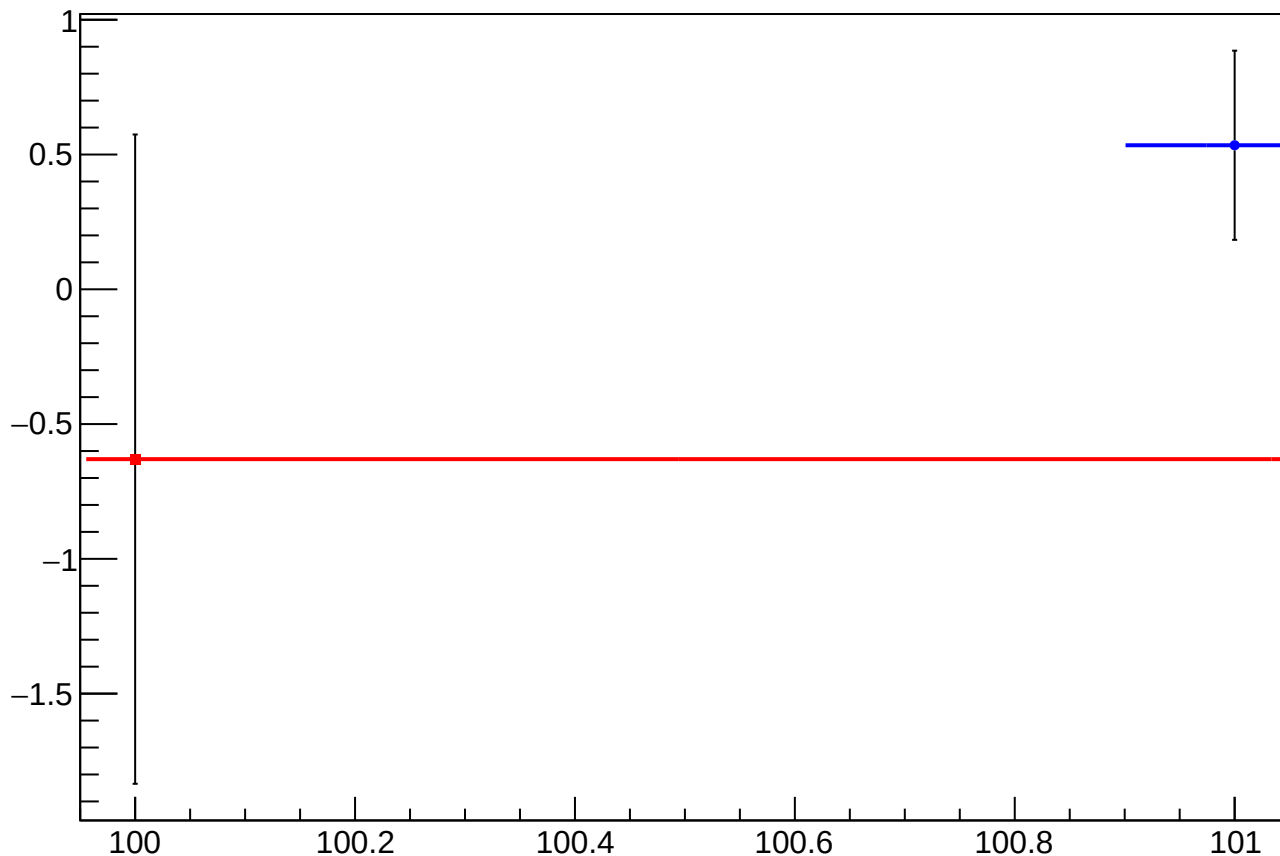
Right: 286.253 $\pm$ 0.238  $\chi^2$ /NDF: 2076.0/1

In: 283.091 $\pm$ 0.248  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 286.253 $\pm$ 0.238  $\chi^2$ /NDF: 2076.0/1

asym\_sam2\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.534+/-0.351  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.630+/-1.204  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

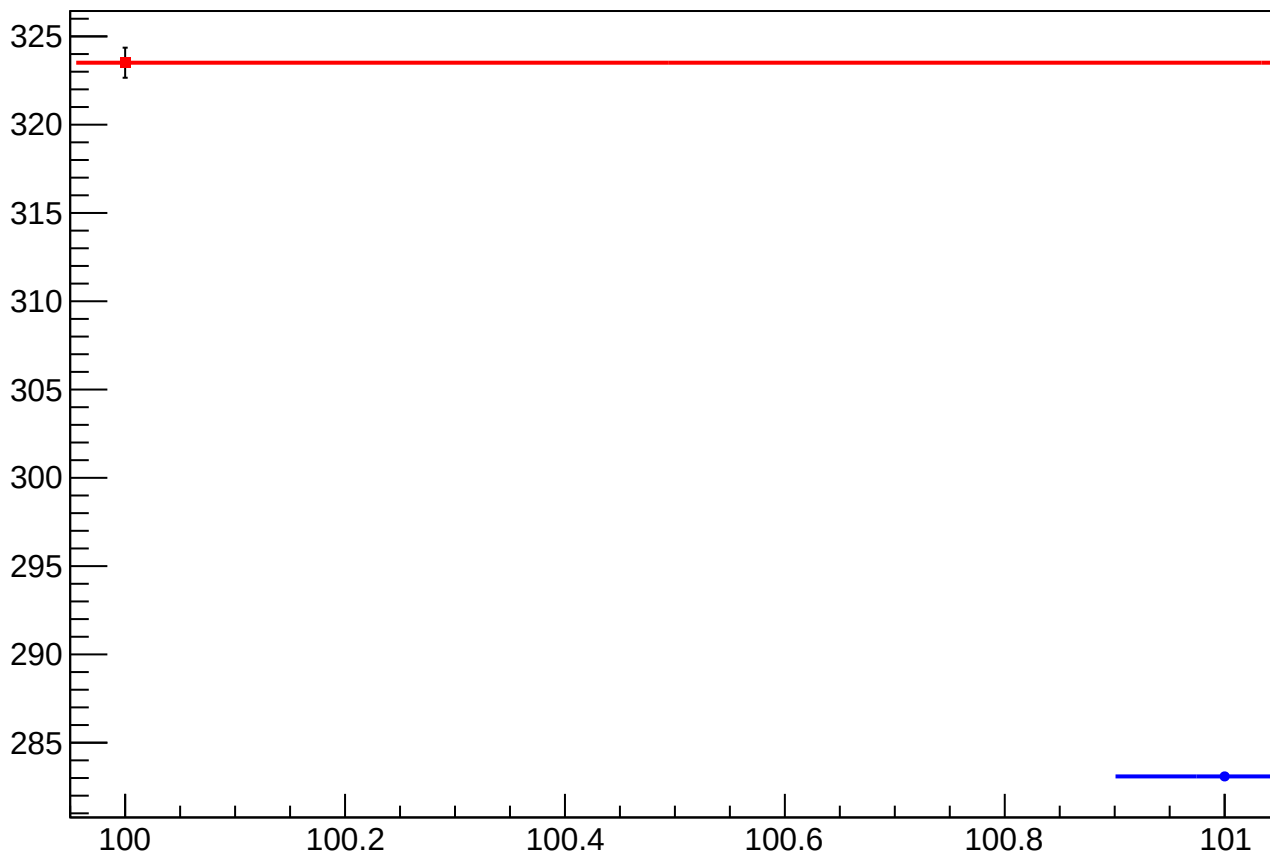
Right: 0.443+/-0.337  $\chi^2/\text{NDF}$ : 0.9/1

In: 0.534+/-0.351  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.443+/-0.337  $\chi^2/\text{NDF}$ : 0.9/1

asym\_sam2\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 283.091 $\pm$ 0.248  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 323.509 $\pm$ 0.852  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

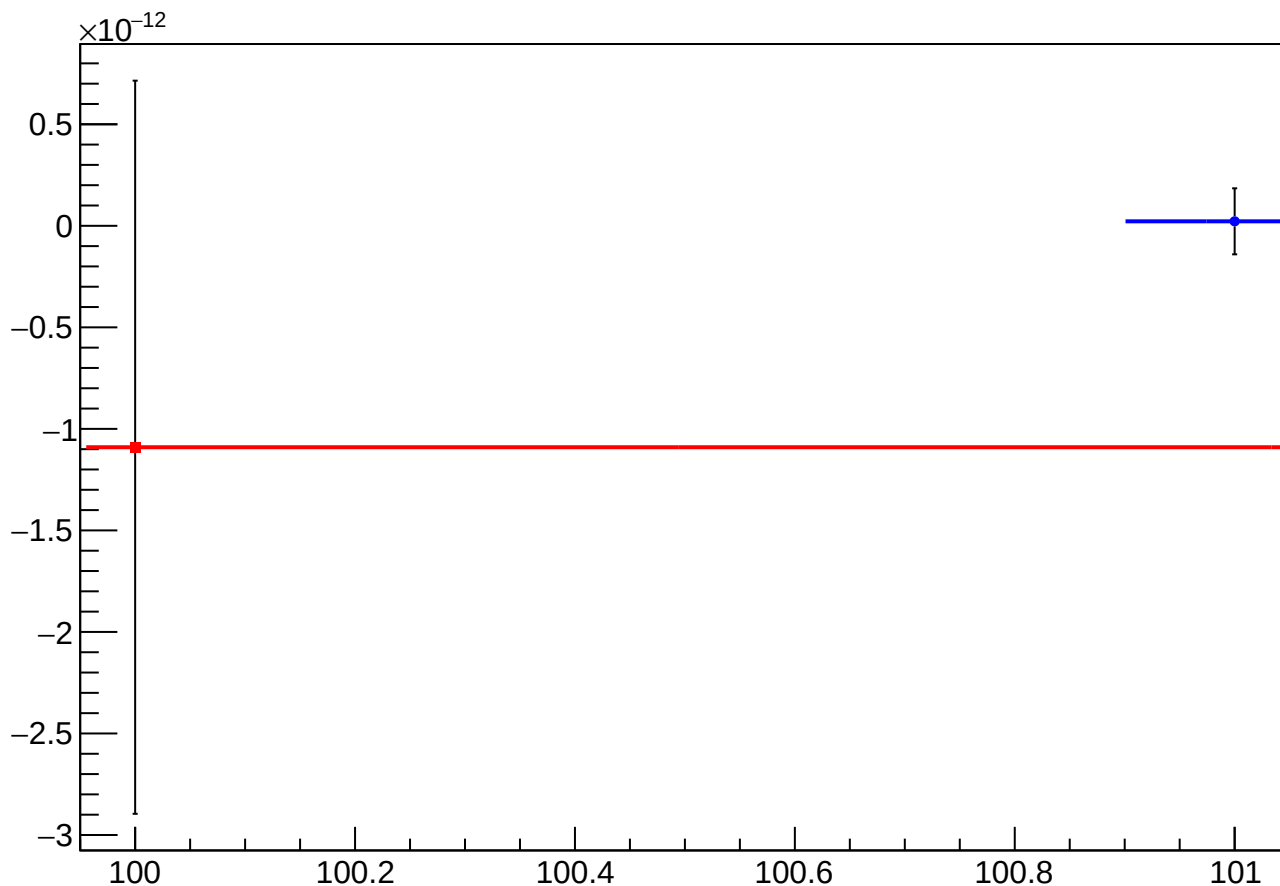
Right: 286.253 $\pm$ 0.238  $\chi^2$ /NDF: 2076.0/1

In: 283.091 $\pm$ 0.248  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 286.253 $\pm$ 0.238  $\chi^2$ /NDF: 2076.0/1

asym\_sam2\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

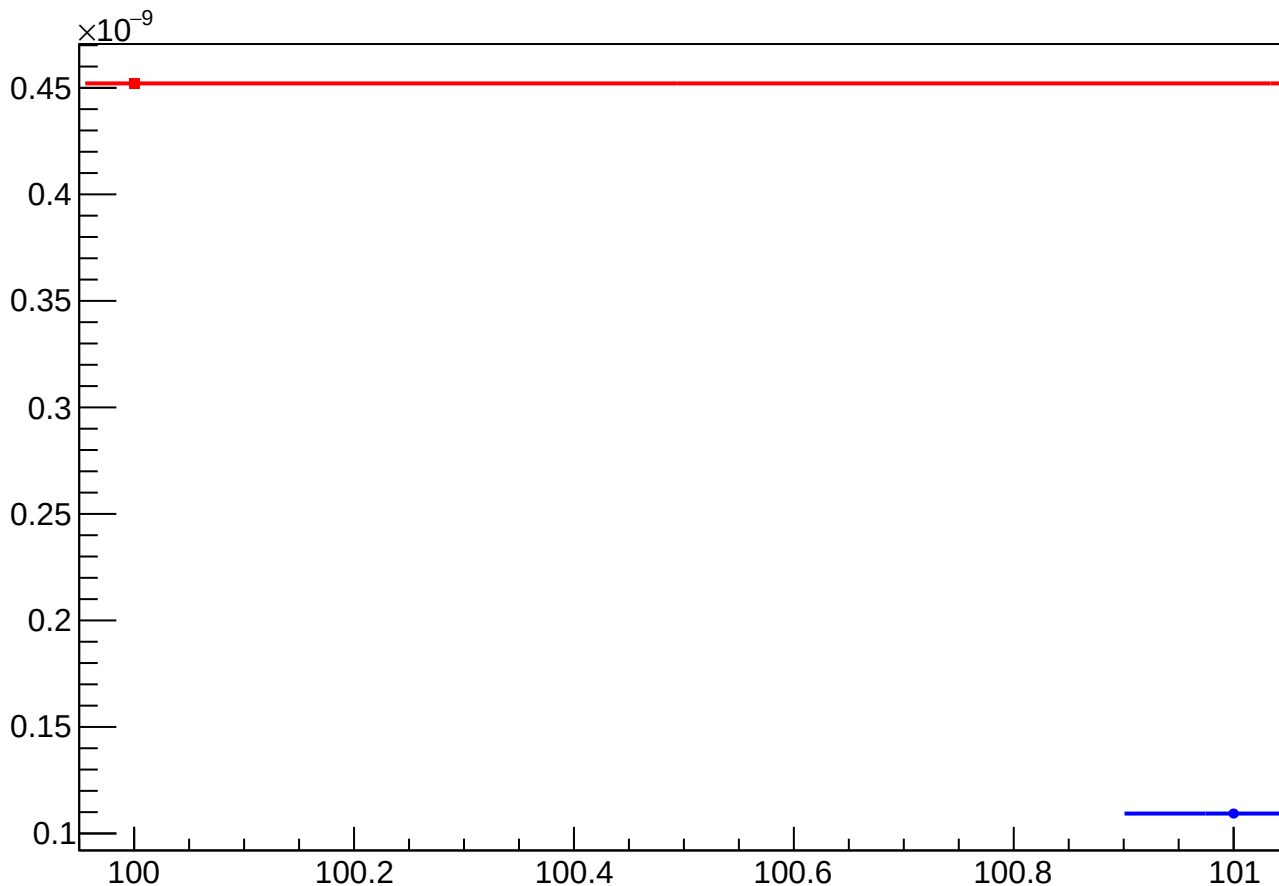
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.4/1

In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 0.4/1

asym\_sam2\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

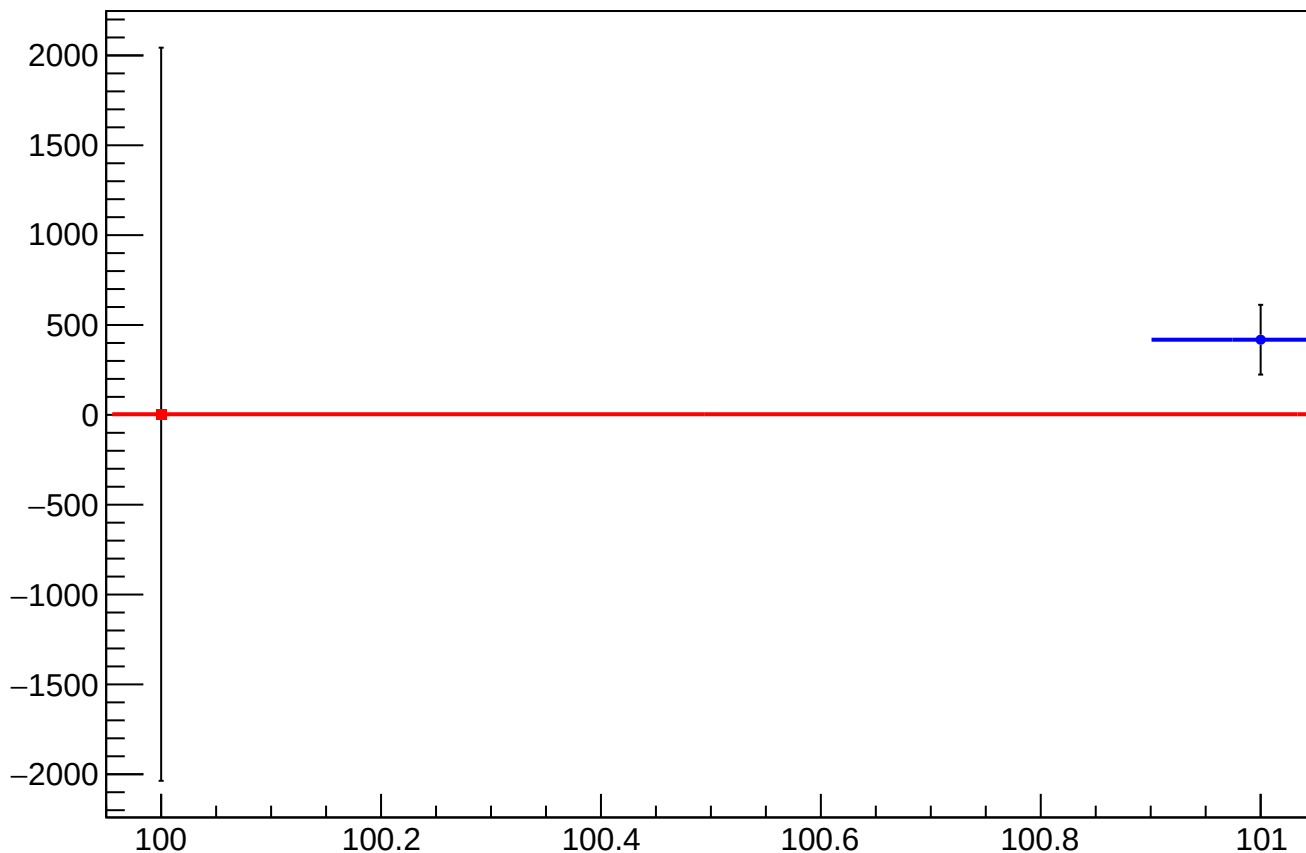
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 71520.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 71520.3/1

# reg\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 418.142+/-194.102  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.397+/-2039.820  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

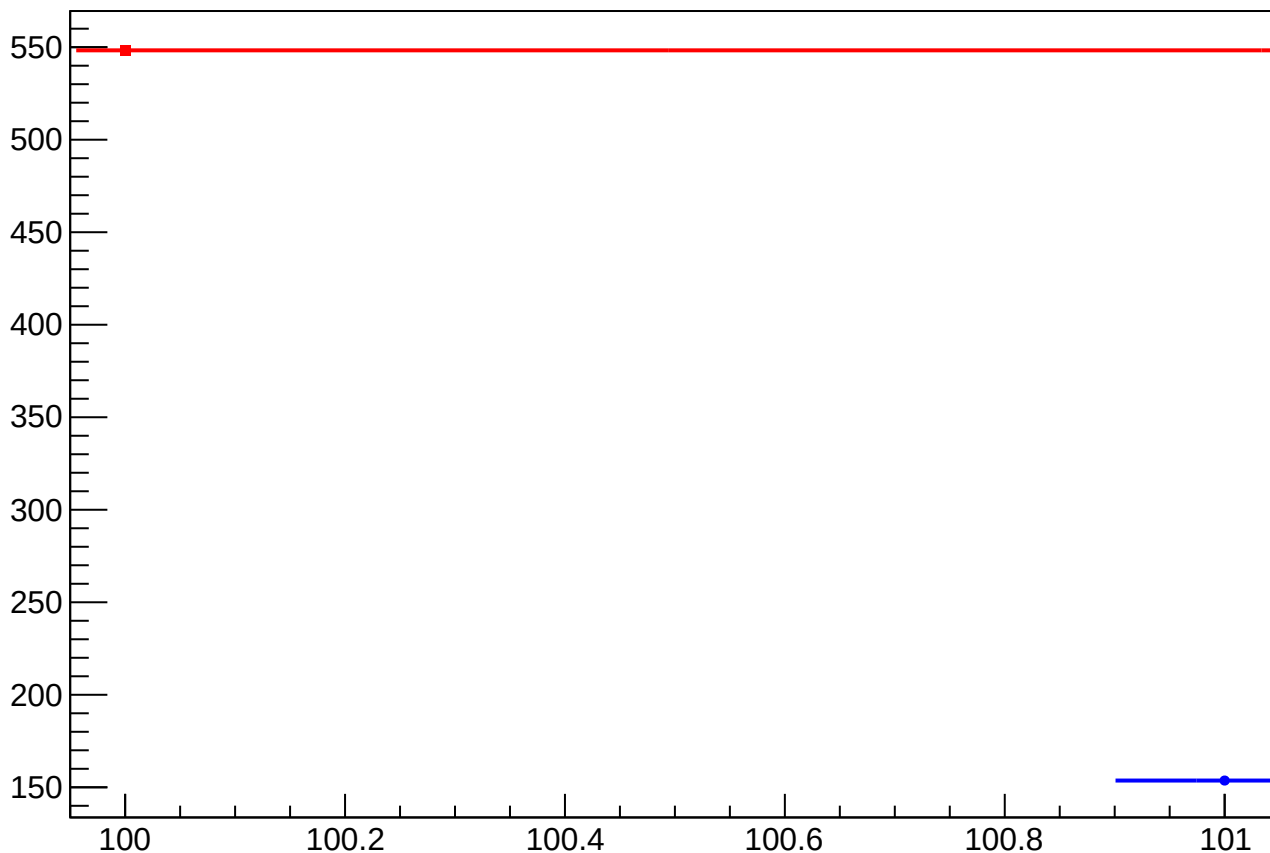
Right: 414.420+/-193.229  $\chi^2/\text{NDF}$ : 0.0/1

In: 418.142+/-194.102  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 414.420+/-193.229  $\chi^2/\text{NDF}$ : 0.0/1

# reg\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 153.650 $\pm$ 0.137  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 548.302 $\pm$ 1.442  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 157.191 $\pm$ 0.137  $\chi^2$ /NDF: 74192.6/1

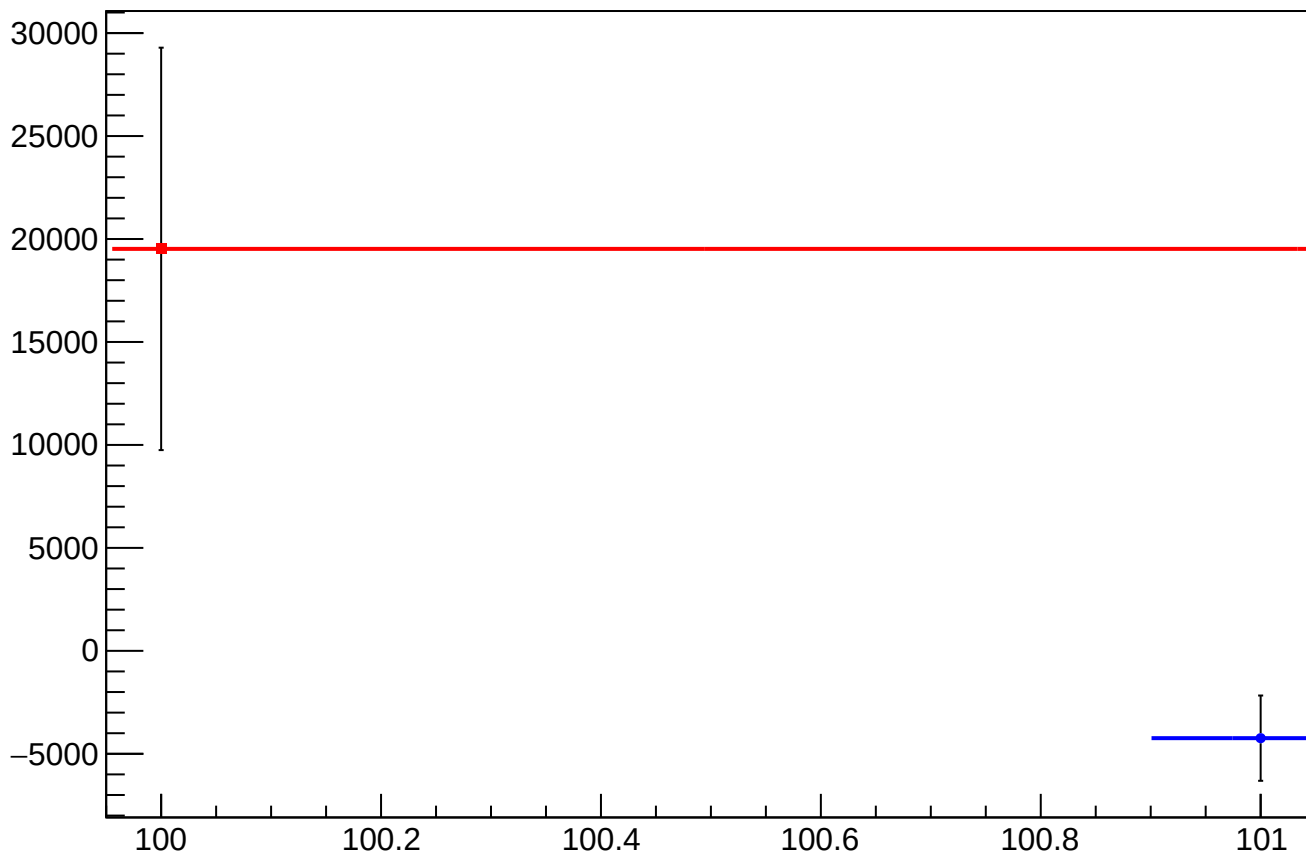
In: 153.650 $\pm$ 0.137  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 157.191 $\pm$ 0.137  $\chi^2$ /NDF: 74192.6/1



asym\_sam3\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -4240.081+/-2070.661  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19520.474+/-9771.345  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

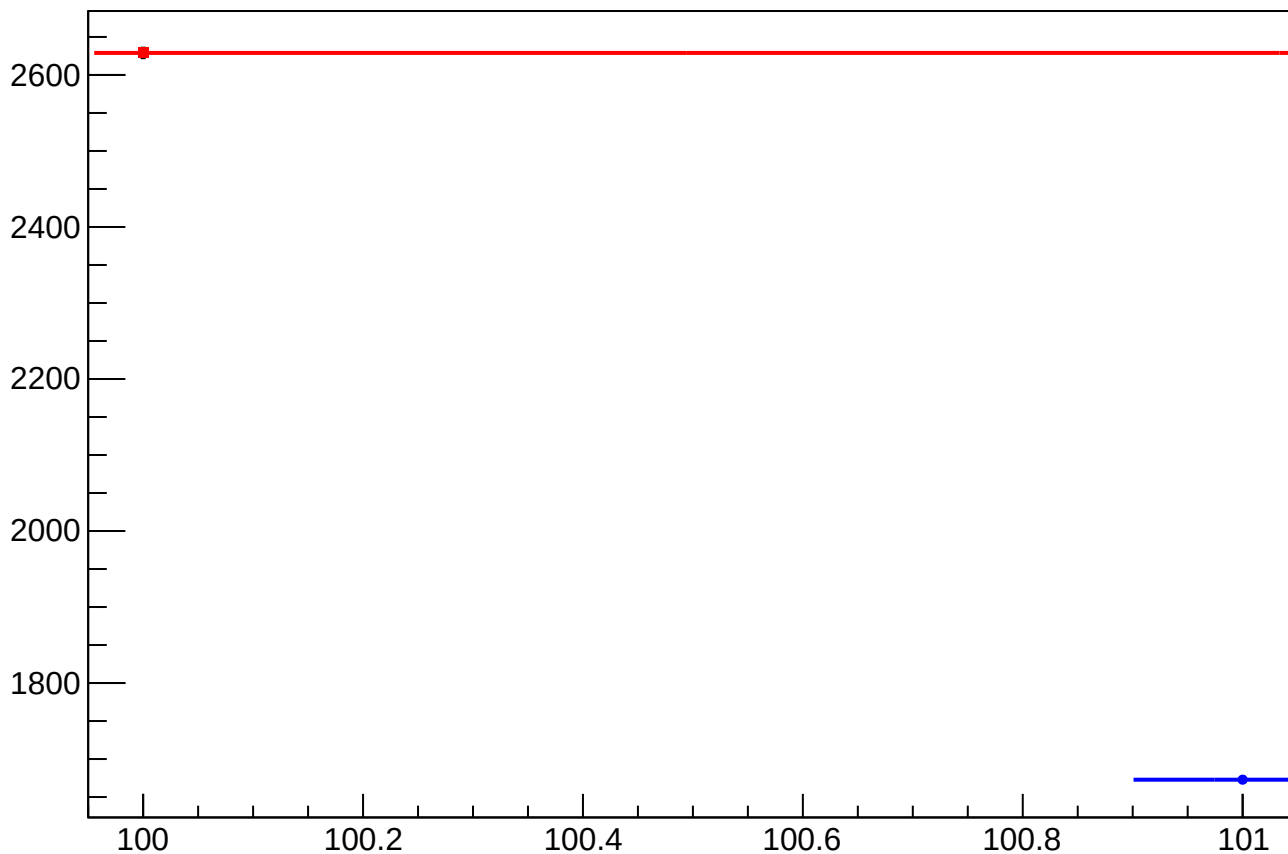
Right: -3218.934+/-2025.677  $\chi^2/\text{NDF}$ : 5.7/1

In: -4240.081+/-2070.661  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3218.934+/-2025.677  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam3\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1672.826 $\pm$ 1.464  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2628.998 $\pm$ 6.909  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

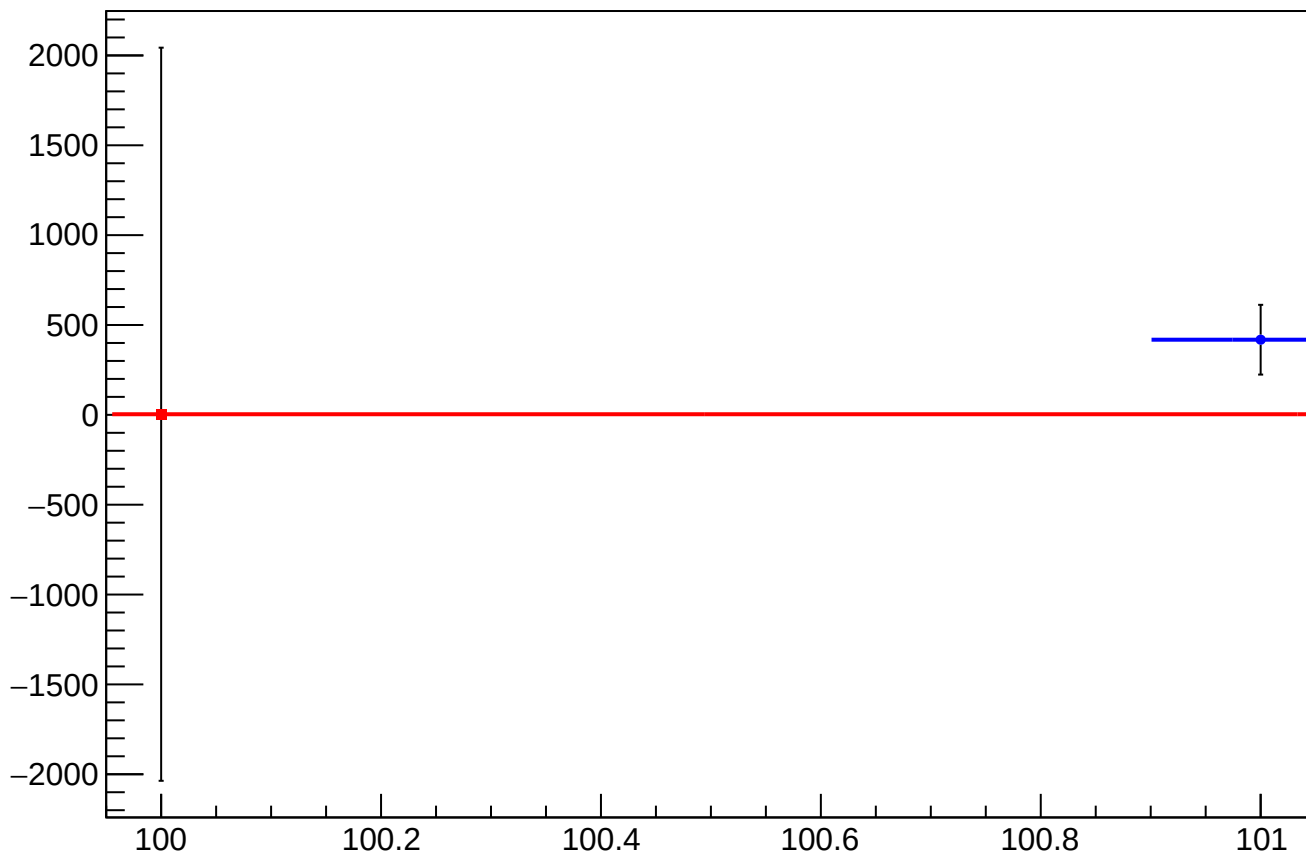
Right: 1713.919 $\pm$ 1.432  $\chi^2$ /NDF: 18328.0/1

In: 1672.826 $\pm$ 1.464  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1713.919 $\pm$ 1.432  $\chi^2$ /NDF: 18328.0/1

# cor\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 418.130+/-194.102  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.409+/-2039.820  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

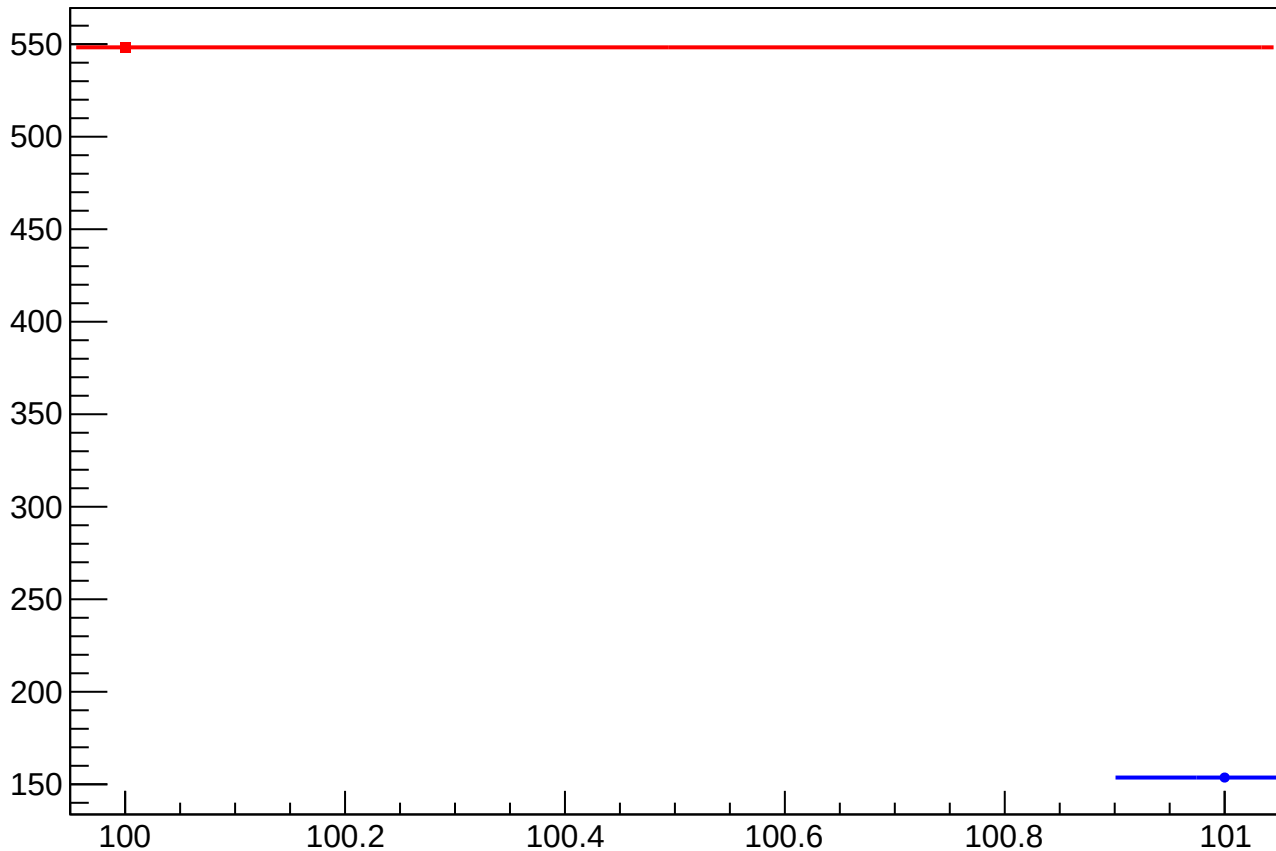
Right: 414.408+/-193.229  $\chi^2/\text{NDF}$ : 0.0/1

In: 418.130+/-194.102  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 414.408+/-193.229  $\chi^2/\text{NDF}$ : 0.0/1

# cor\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 153.650 $\pm$ 0.137  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 548.302 $\pm$ 1.442  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

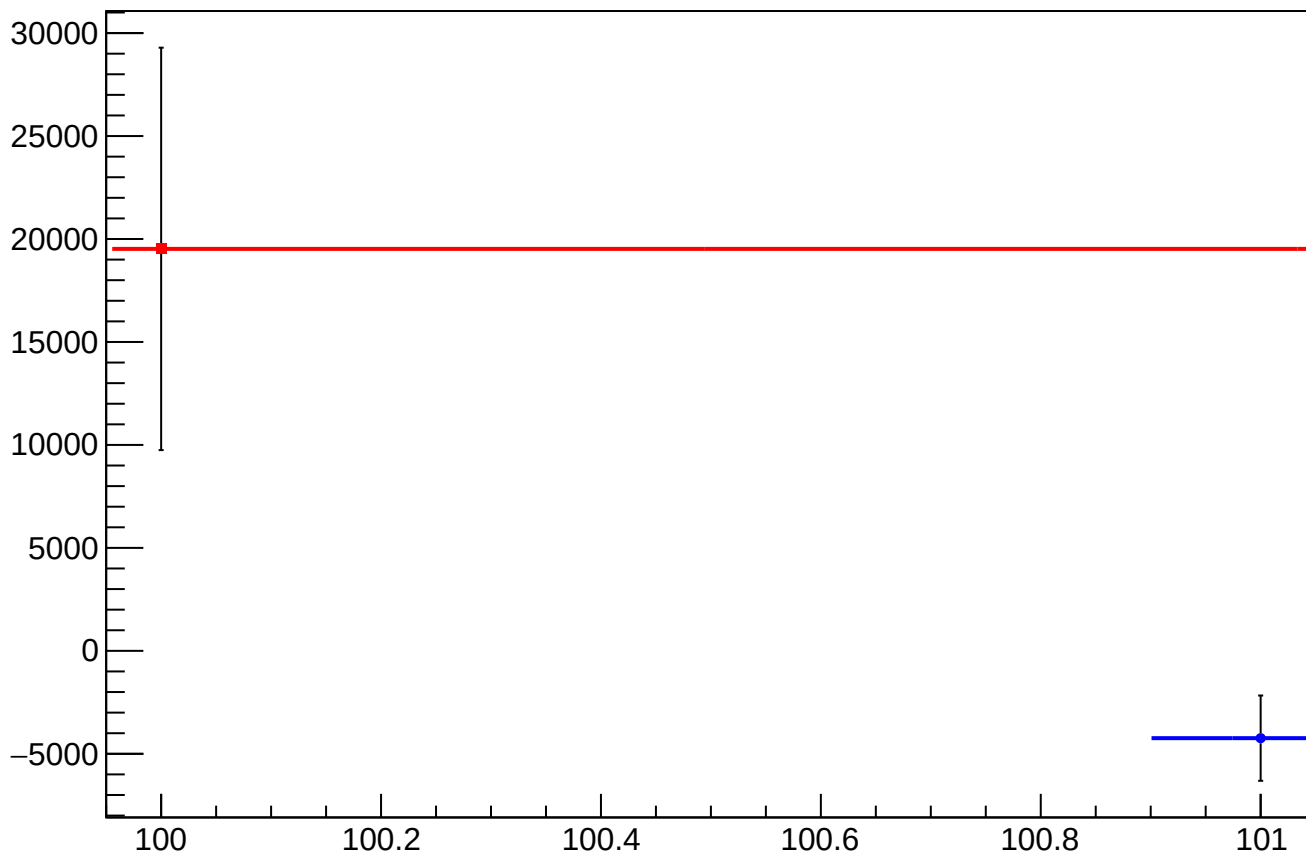
Right: 157.191 $\pm$ 0.137  $\chi^2$ /NDF: 74192.6/1

In: 153.650 $\pm$ 0.137  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 157.191 $\pm$ 0.137  $\chi^2$ /NDF: 74192.6/1

asym\_sam3\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -4240.083+/-2070.663  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19520.478+/-9771.348  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

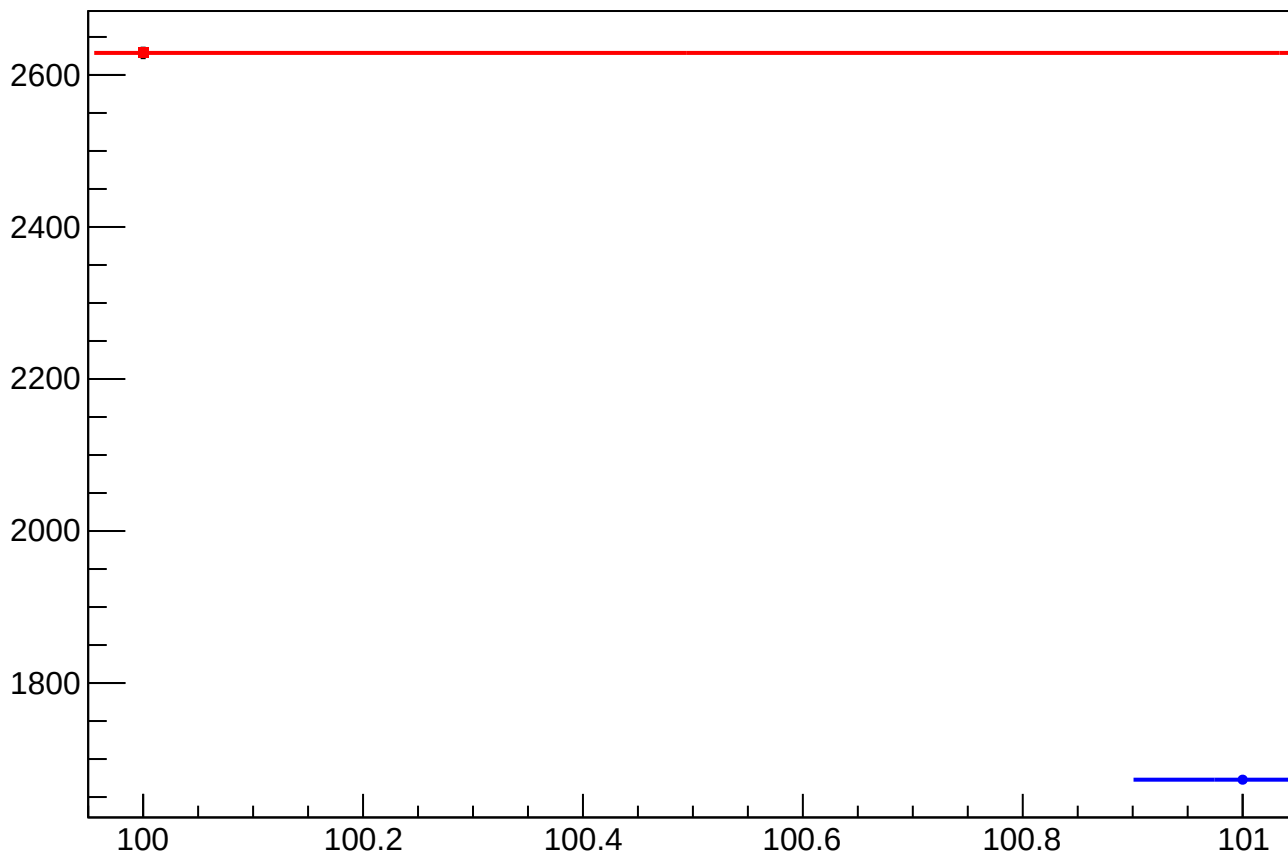
Right: -3218.934+/-2025.679  $\chi^2/\text{NDF}$ : 5.7/1

In: -4240.083+/-2070.663  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3218.934+/-2025.679  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam3\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1672.828 $\pm$ 1.464  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2628.999 $\pm$ 6.909  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

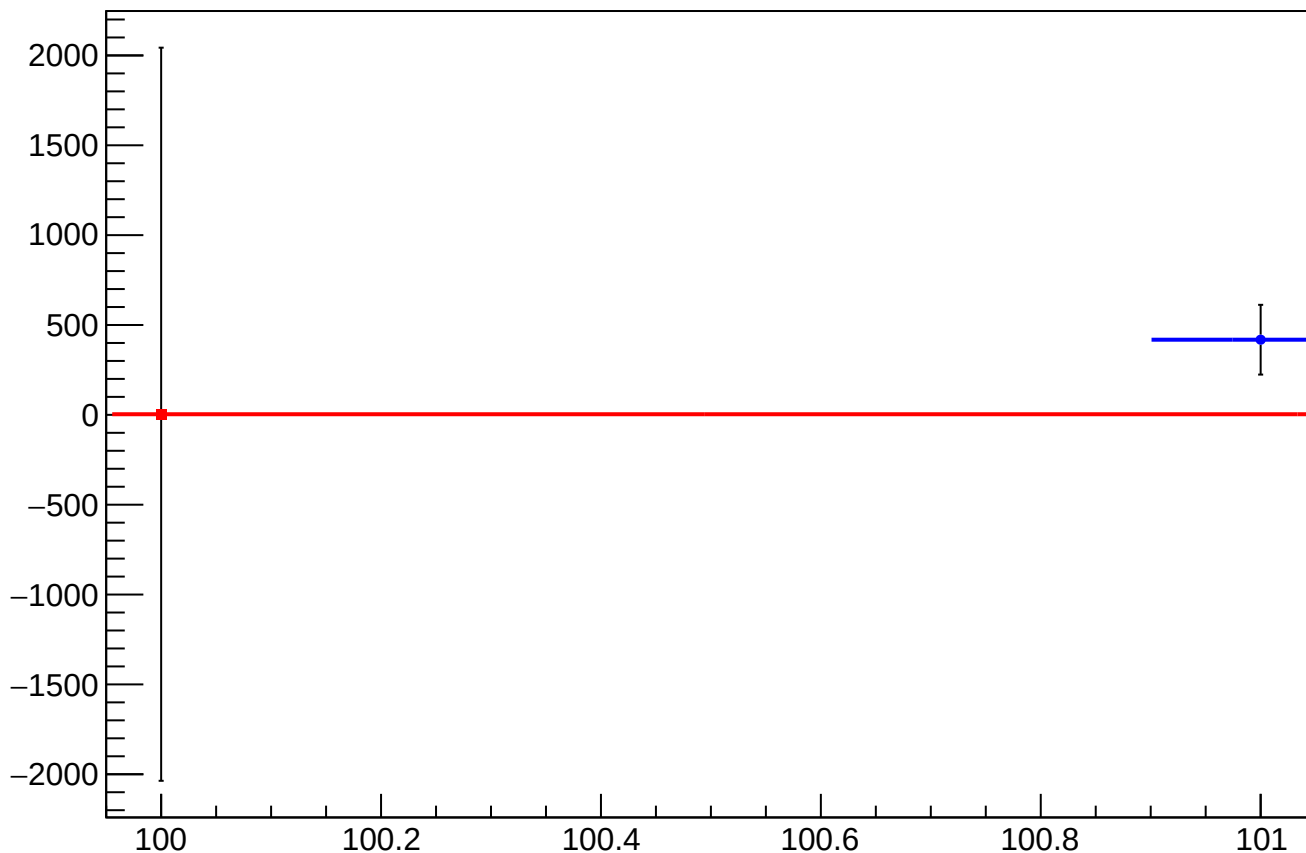
Right: 1713.921 $\pm$ 1.432  $\chi^2$ /NDF: 18328.0/1

In: 1672.828 $\pm$ 1.464  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1713.921 $\pm$ 1.432  $\chi^2$ /NDF: 18328.0/1

eigen\_cor\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 418.130+/-194.102  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.409+/-2039.820  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

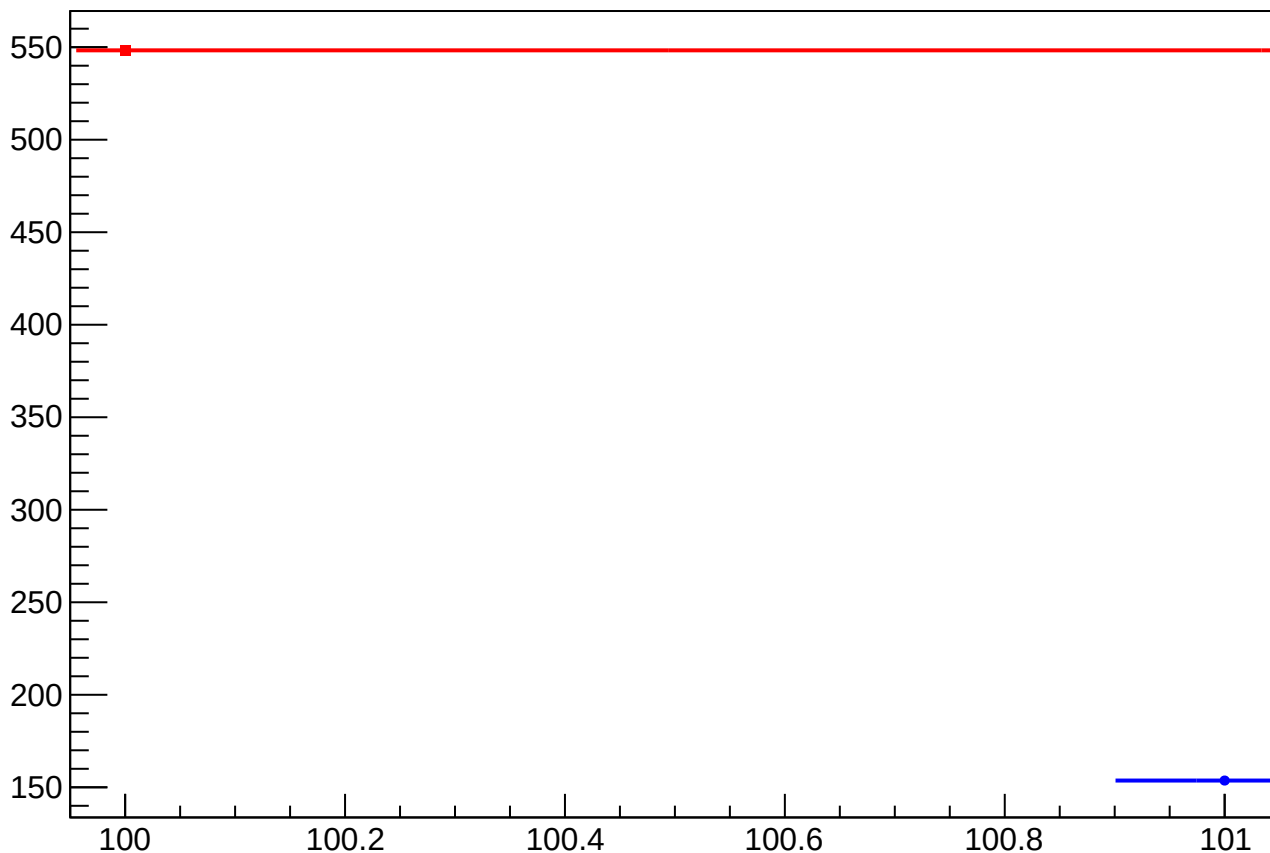
Right: 414.408+/-193.229  $\chi^2/\text{NDF}$ : 0.0/1

In: 418.130+/-194.102  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 414.408+/-193.229  $\chi^2/\text{NDF}$ : 0.0/1

# eigen\_cor\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 153.650 $\pm$ 0.137  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 548.302 $\pm$ 1.442  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 157.191 $\pm$ 0.137  $\chi^2$ /NDF: 74192.6/1

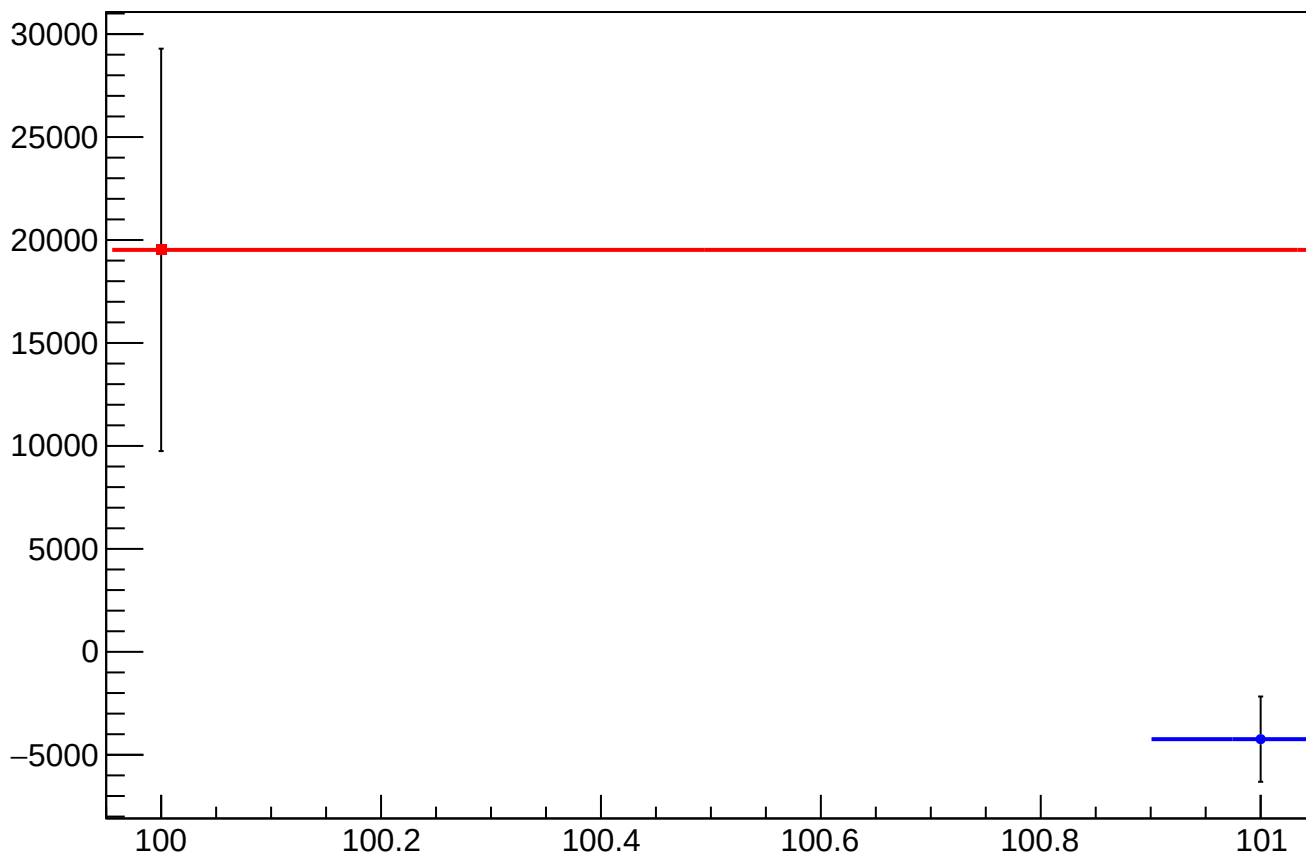
In: 153.650 $\pm$ 0.137  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 157.191 $\pm$ 0.137  $\chi^2$ /NDF: 74192.6/1



asym\_sam3\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -4240.083+/-2070.663  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19520.478+/-9771.348  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

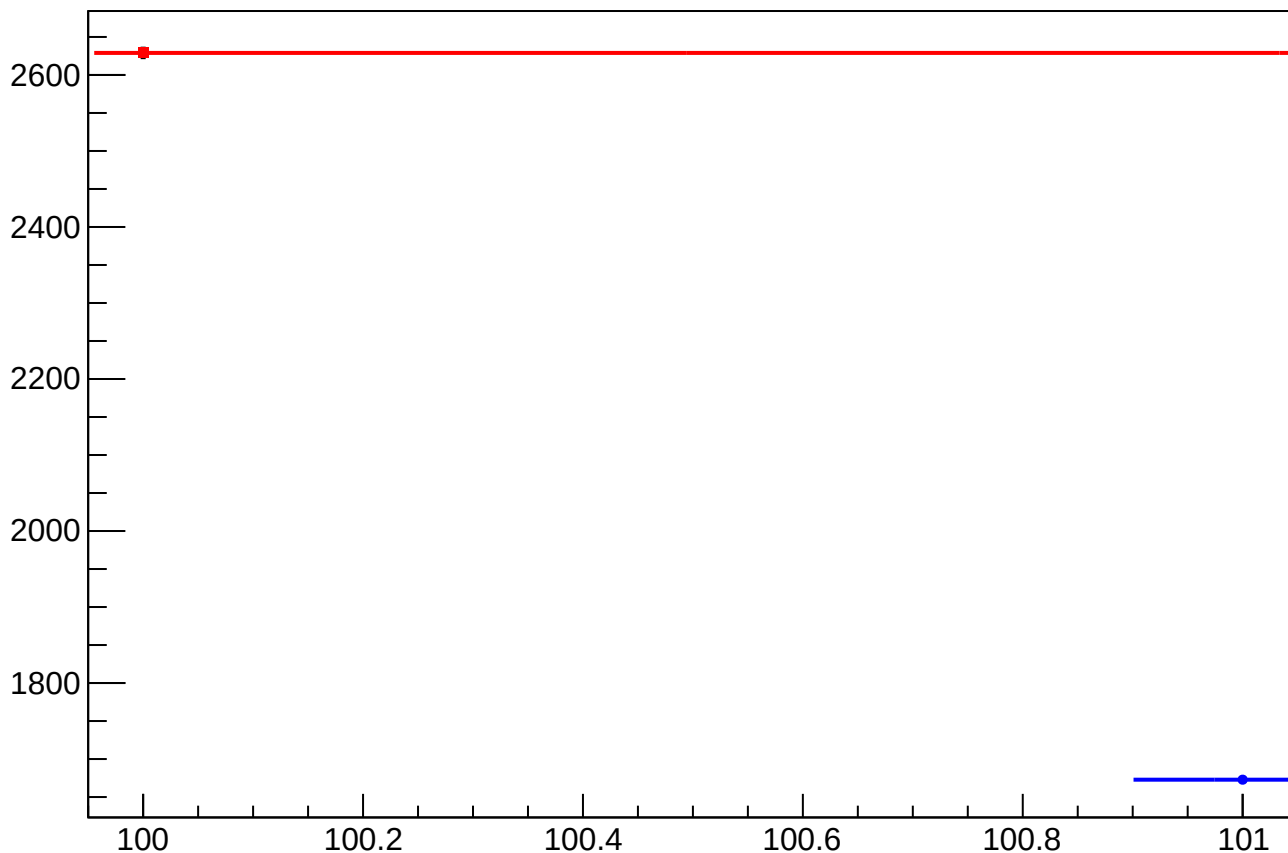
Right: -3218.934+/-2025.679  $\chi^2/\text{NDF}$ : 5.7/1

In: -4240.083+/-2070.663  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3218.934+/-2025.679  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam3\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1672.828 $\pm$ 1.464  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2628.999 $\pm$ 6.909  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

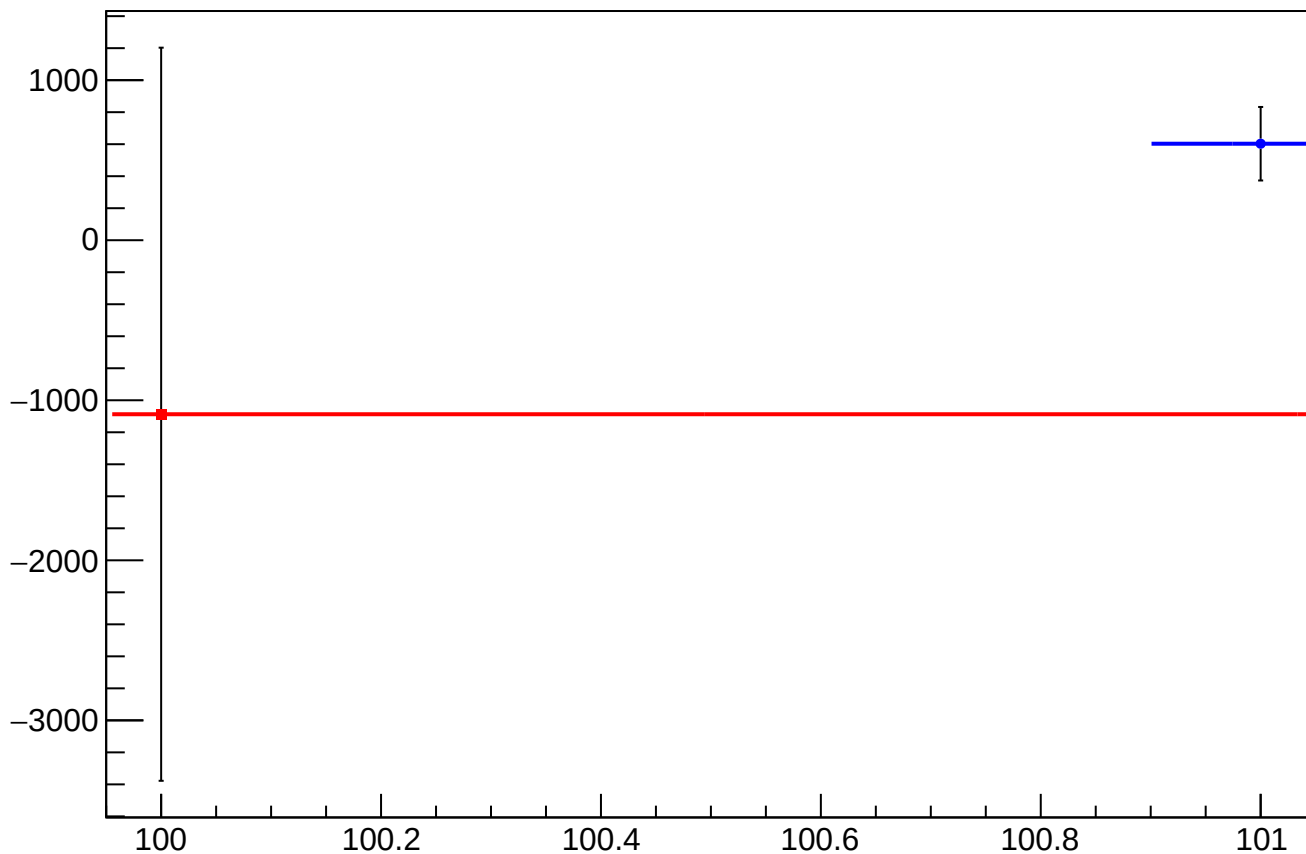
Right: 1713.921 $\pm$ 1.432  $\chi^2$ /NDF: 18328.0/1

In: 1672.828 $\pm$ 1.464  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1713.921 $\pm$ 1.432  $\chi^2$ /NDF: 18328.0/1

# dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 602.915+/-229.689  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1087.281+/-2290.350  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

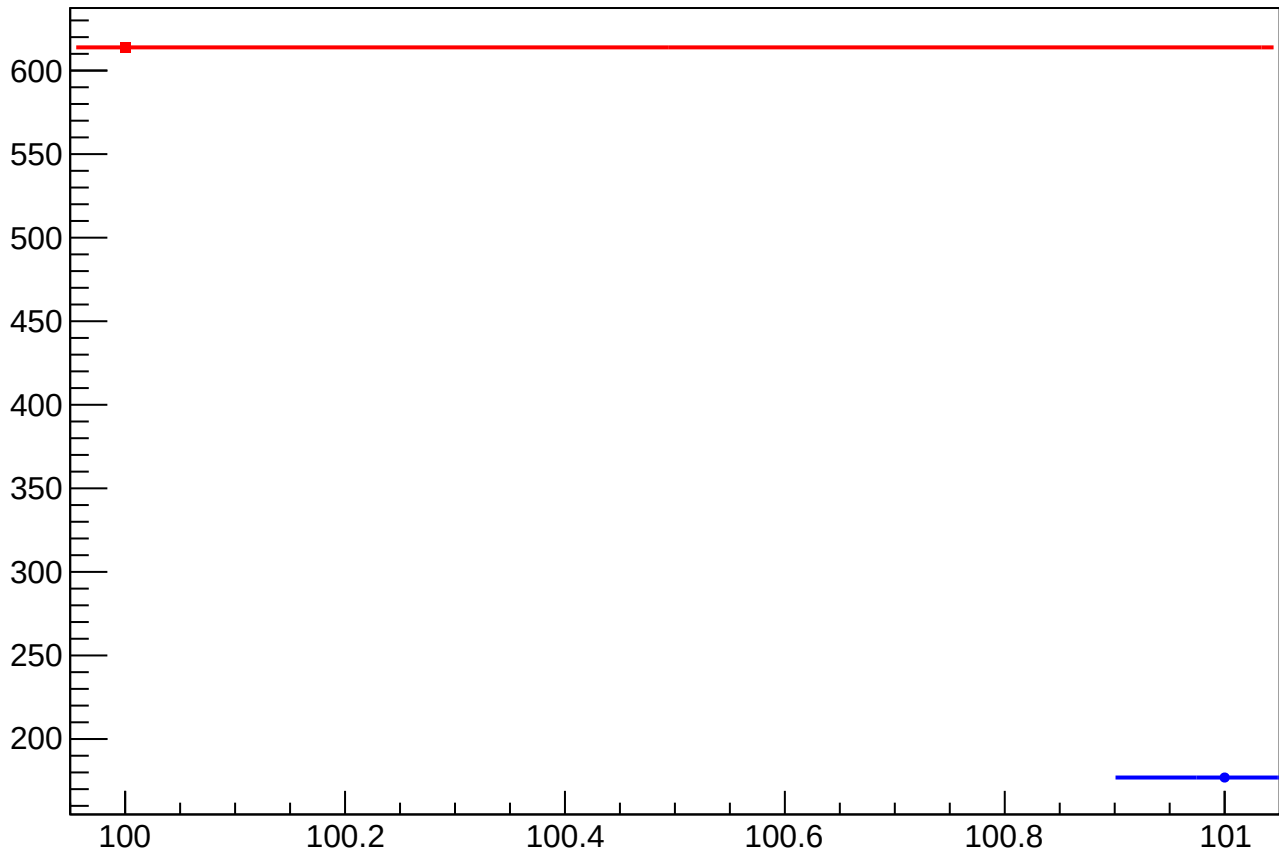
Right: 586.085+/-228.542  $\chi^2/\text{NDF}$ : 0.5/1

In: 602.915+/-229.689  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 586.085+/-228.542  $\chi^2/\text{NDF}$ : 0.5/1

# dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 176.955+/-0.162  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 613.870+/-1.620  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

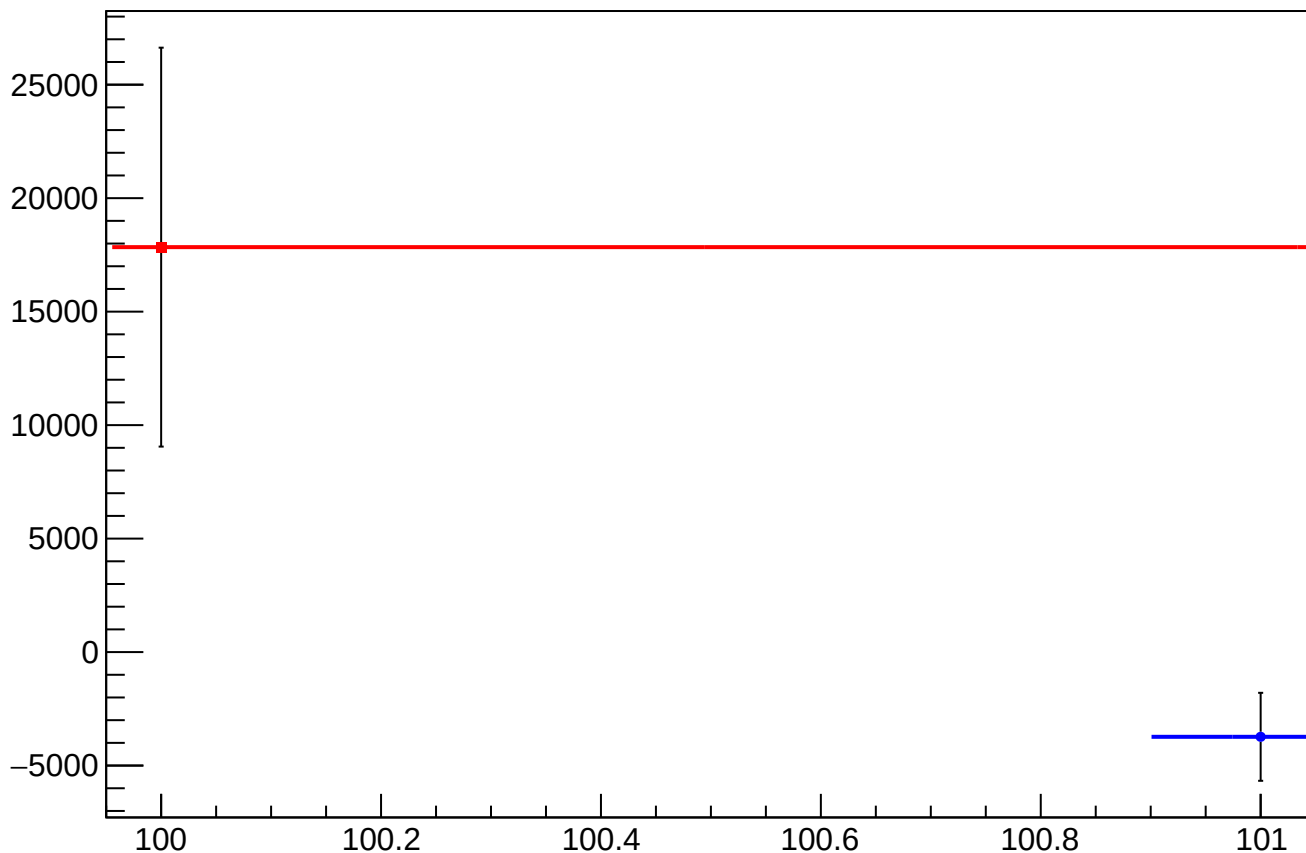
Right: 181.305+/-0.162  $\chi^2/\text{NDF}$ : 72056.8/1

In: 176.955+/-0.162  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.305+/-0.162  $\chi^2/\text{NDF}$ : 72056.8/1

asym\_sam3\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3733.118+/-1938.217  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17842.301+/-8788.470  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

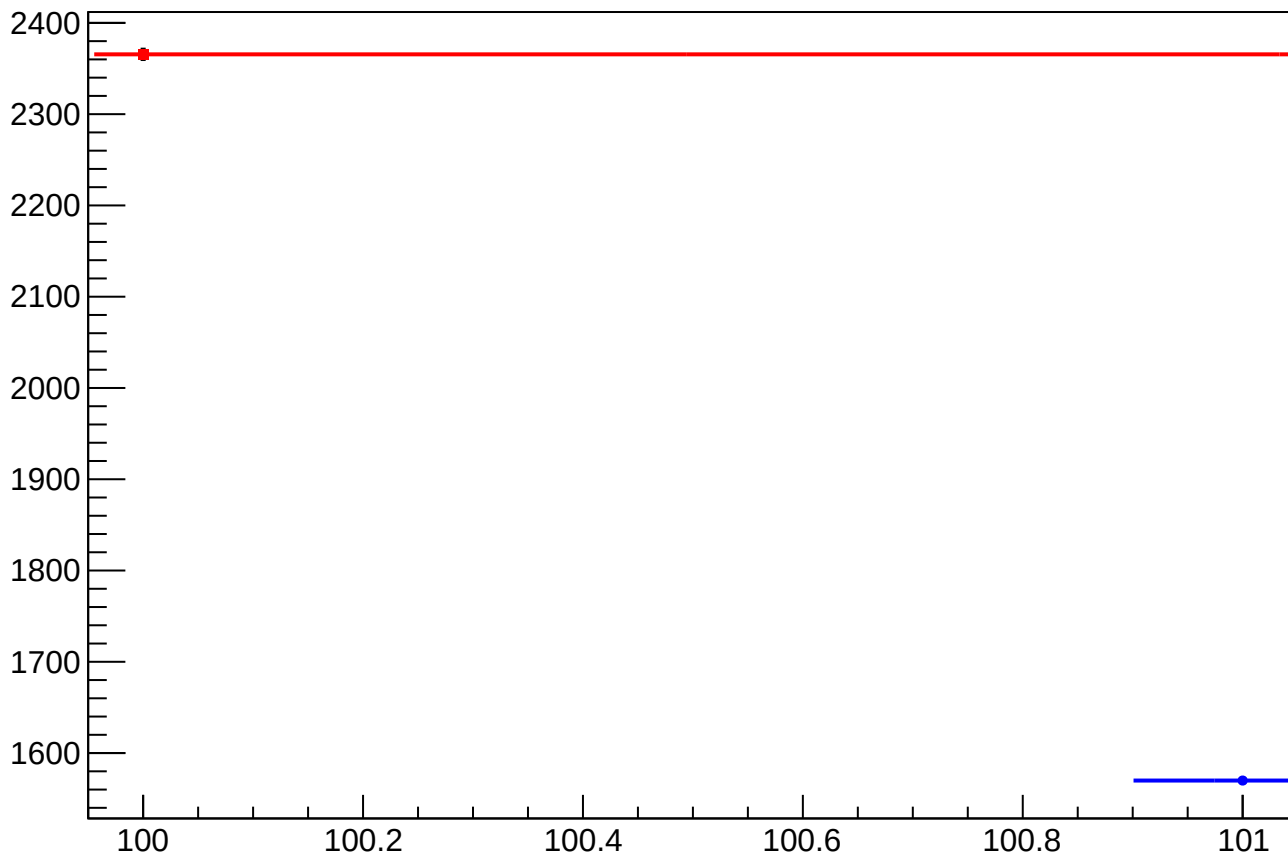
Right: -2732.400+/-1892.734  $\chi^2/\text{NDF}$ : 5.7/1

In: -3733.118+/-1938.217  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2732.400+/-1892.734  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam3\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1569.888 $\pm$ 1.371  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2365.539 $\pm$ 6.214  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

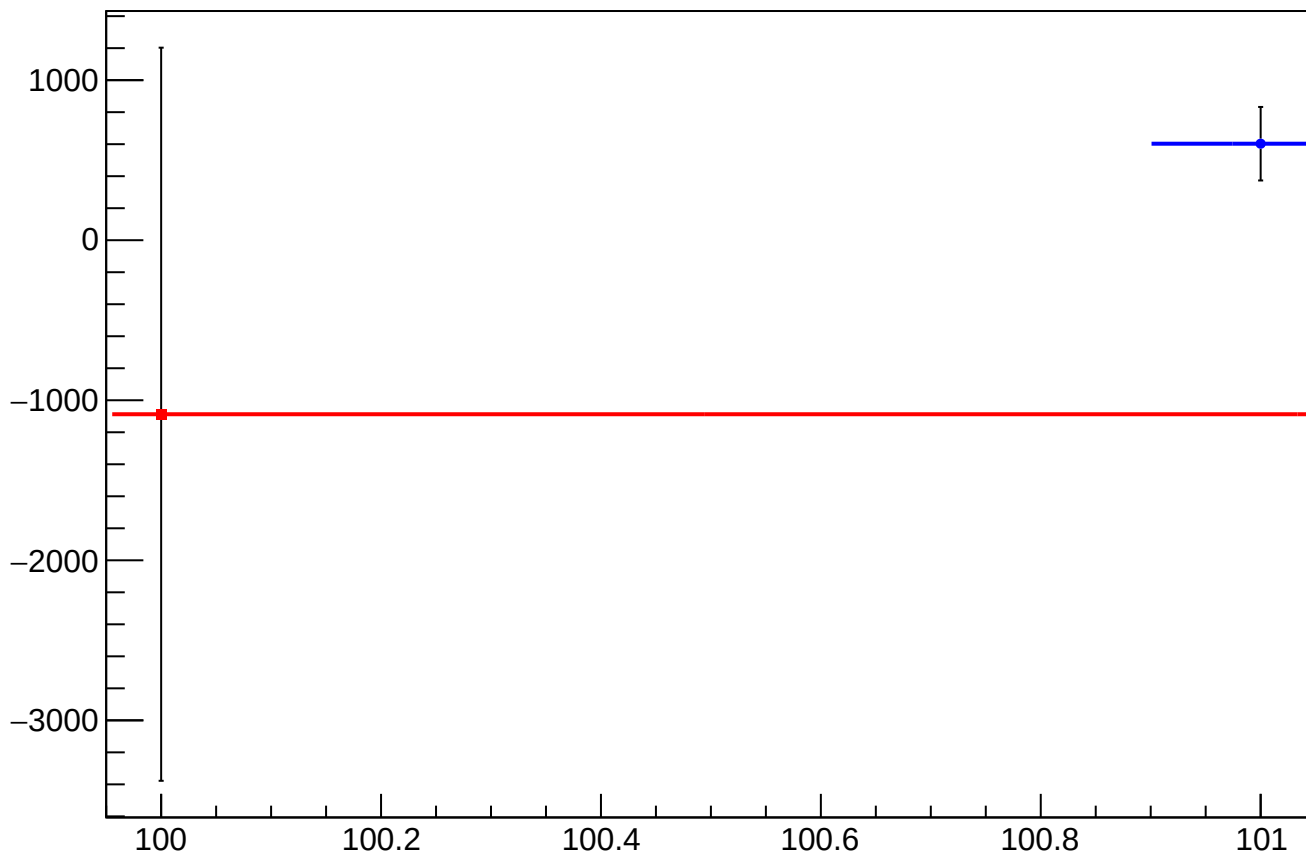
Right: 1606.792 $\pm$ 1.338  $\chi^2$ /NDF: 15632.3/1

In: 1569.888 $\pm$ 1.371  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1606.792 $\pm$ 1.338  $\chi^2$ /NDF: 15632.3/1

eigen\_dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 602.929+/-229.692  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1087.355+/-2290.367  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

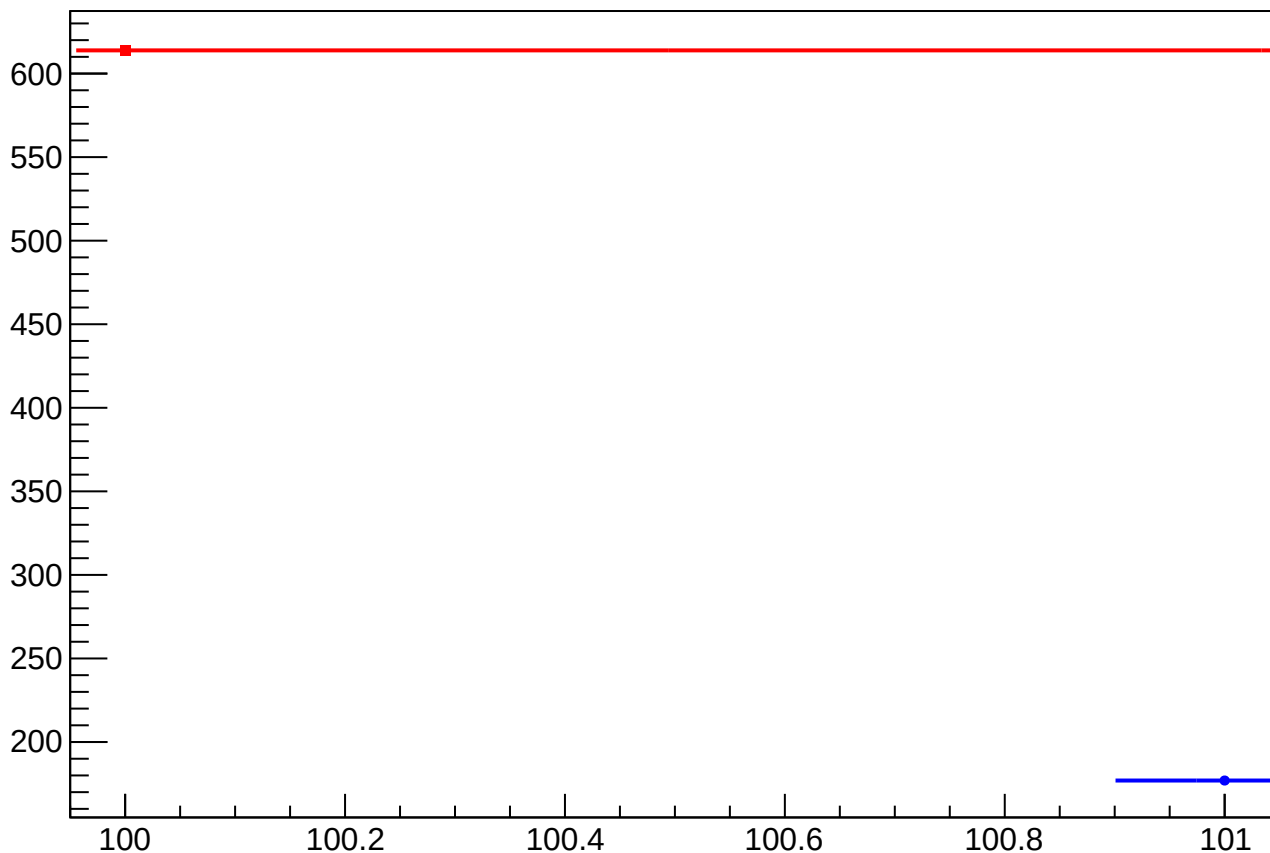
Right: 586.099+/-228.545  $\chi^2/\text{NDF}$ : 0.5/1

In: 602.929+/-229.692  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 586.099+/-228.545  $\chi^2/\text{NDF}$ : 0.5/1

# eigen\_dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 176.957 $\pm$ 0.162  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 613.874 $\pm$ 1.620  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 181.308 $\pm$ 0.162  $\chi^2$ /NDF: 72056.4/1

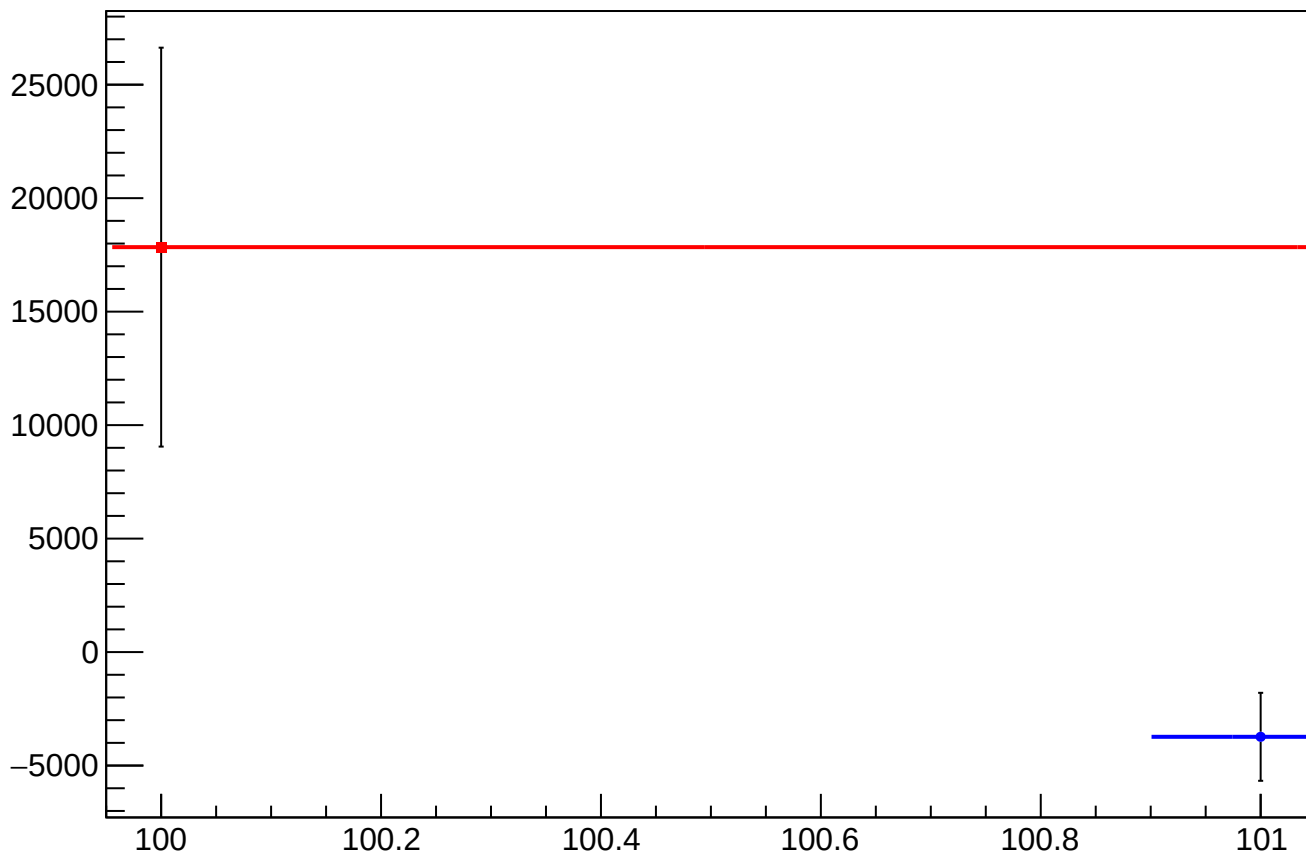
In: 176.957 $\pm$ 0.162  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 181.308 $\pm$ 0.162  $\chi^2$ /NDF: 72056.4/1



asym\_sam3\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3733.102+/-1938.209  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 17842.222+/-8788.431  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

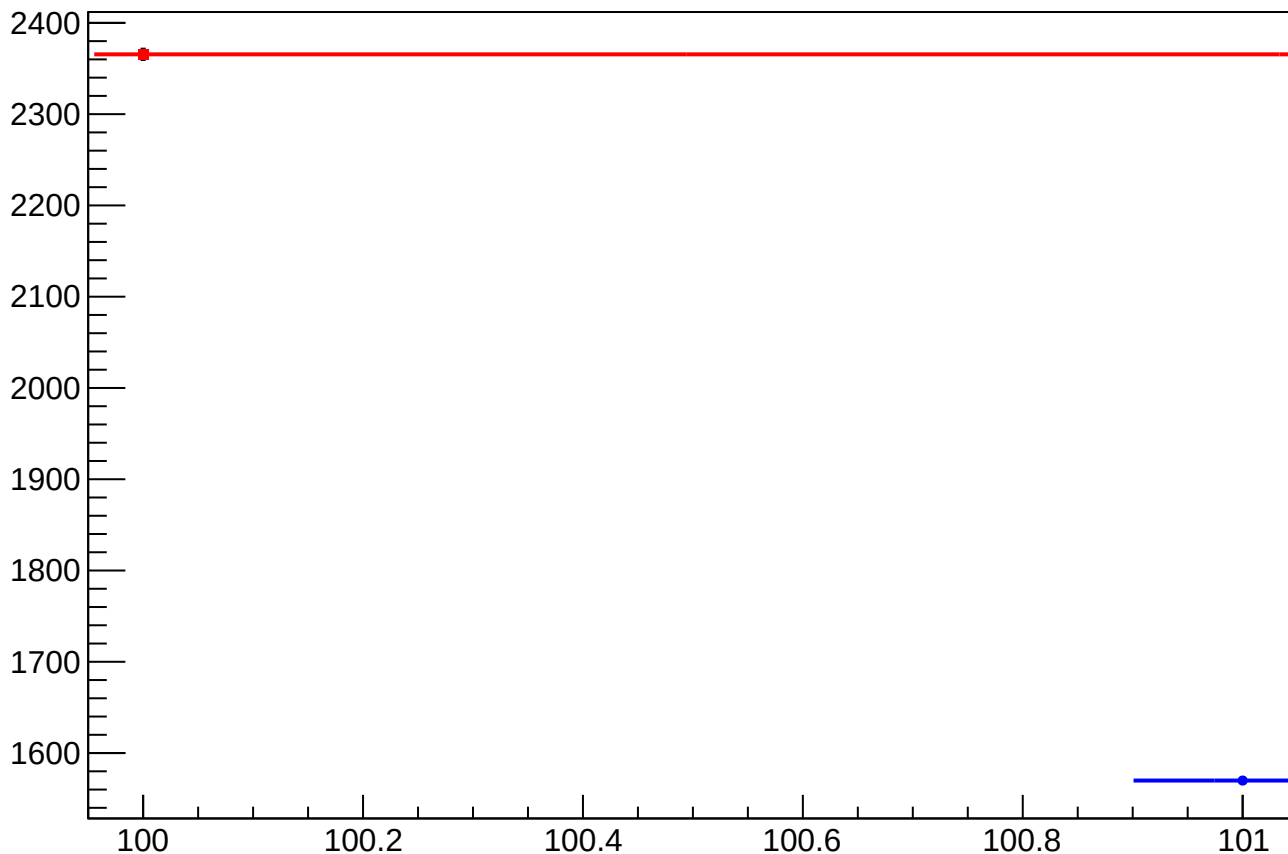
Right: -2732.388+/-1892.726  $\chi^2/\text{NDF}$ : 5.7/1

In: -3733.102+/-1938.209  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2732.388+/-1892.726  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam3\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1569.881+/-1.371  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2365.529+/-6.214  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

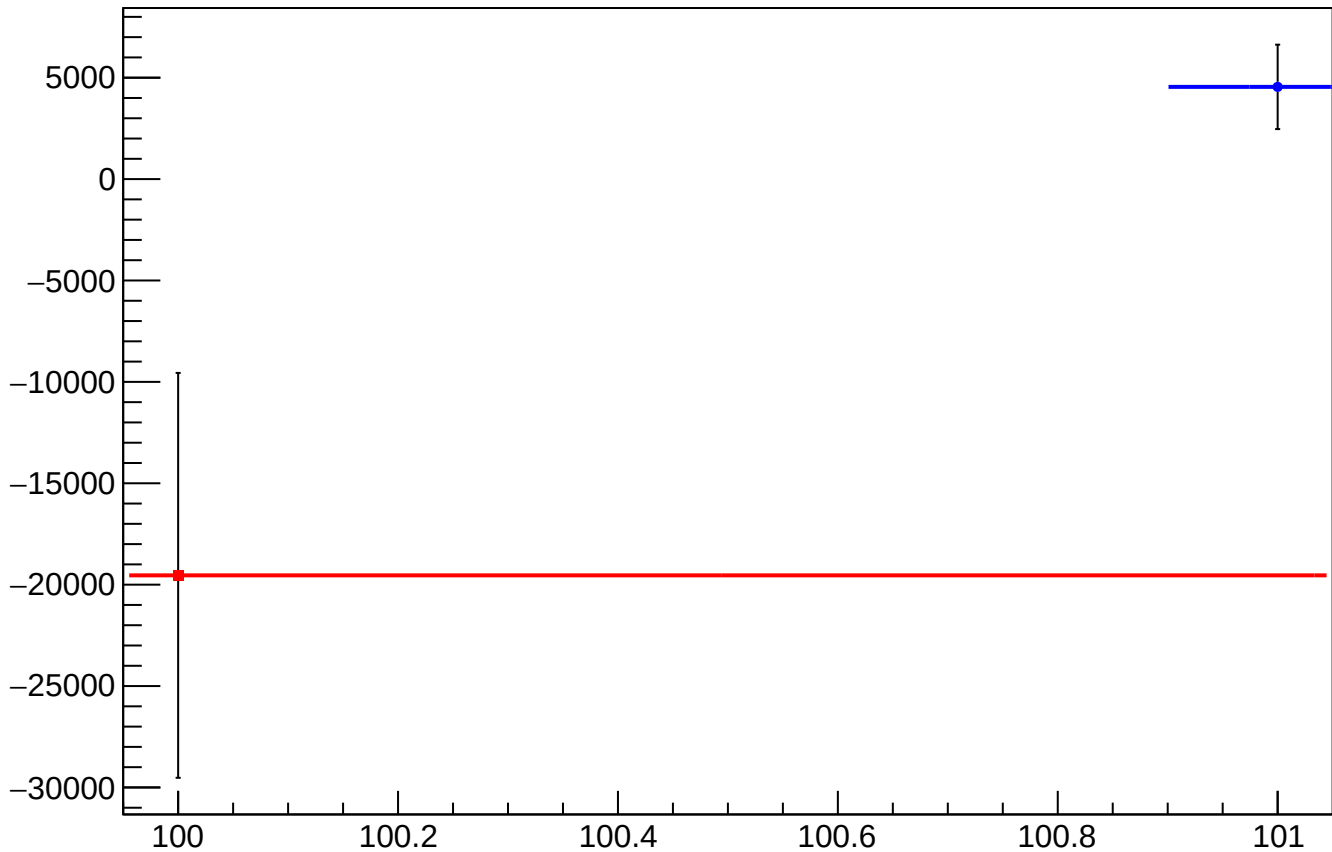
Right: 1606.785+/-1.338  $\chi^2/\text{NDF}$ : 15632.3/1

In: 1569.881+/-1.371  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1606.785+/-1.338  $\chi^2/\text{NDF}$ : 15632.3/1

# asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 4547.534+/-2081.331  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19541.062+/-9982.947  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

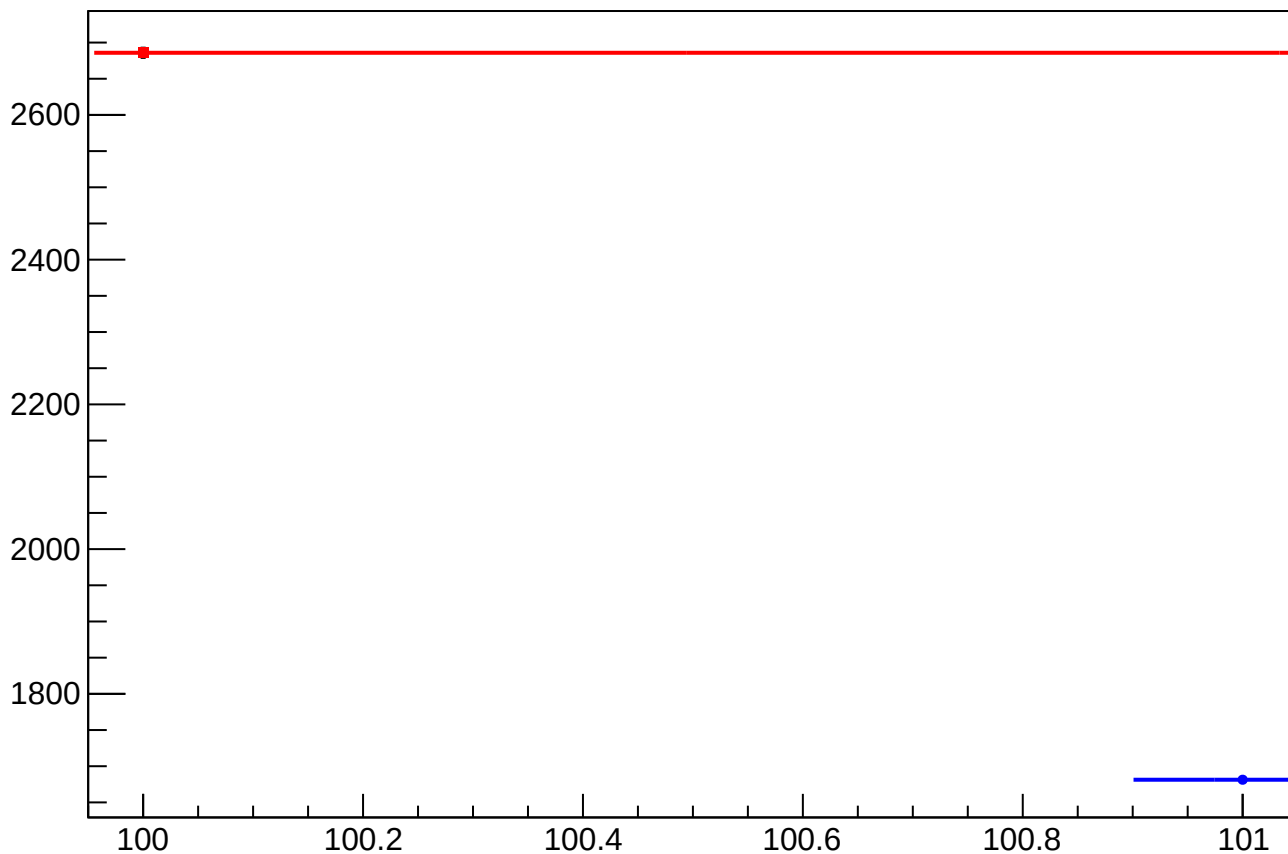
Right: 3544.081+/-2037.519  $\chi^2/\text{NDF}$ : 5.6/1

In: 4547.534+/-2081.331  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3544.081+/-2037.519  $\chi^2/\text{NDF}$ : 5.6/1

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 1681.320+/-1.472  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2685.885+/-7.059  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

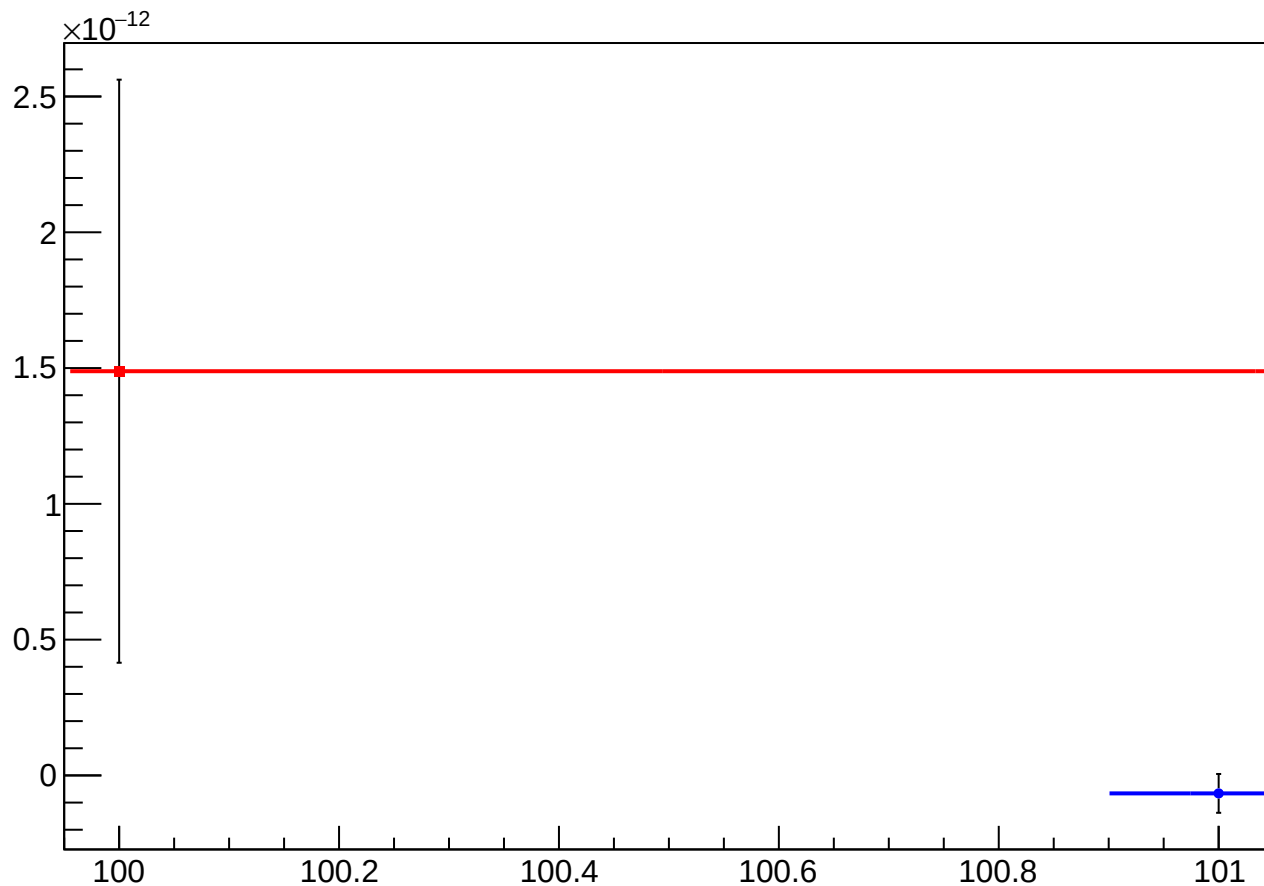
Right: 1723.167+/-1.441  $\chi^2/\text{NDF}$ : 19408.4/1

In: 1681.320+/-1.472  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1723.167+/-1.441  $\chi^2/\text{NDF}$ : 19408.4/1

asym\_sam3\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

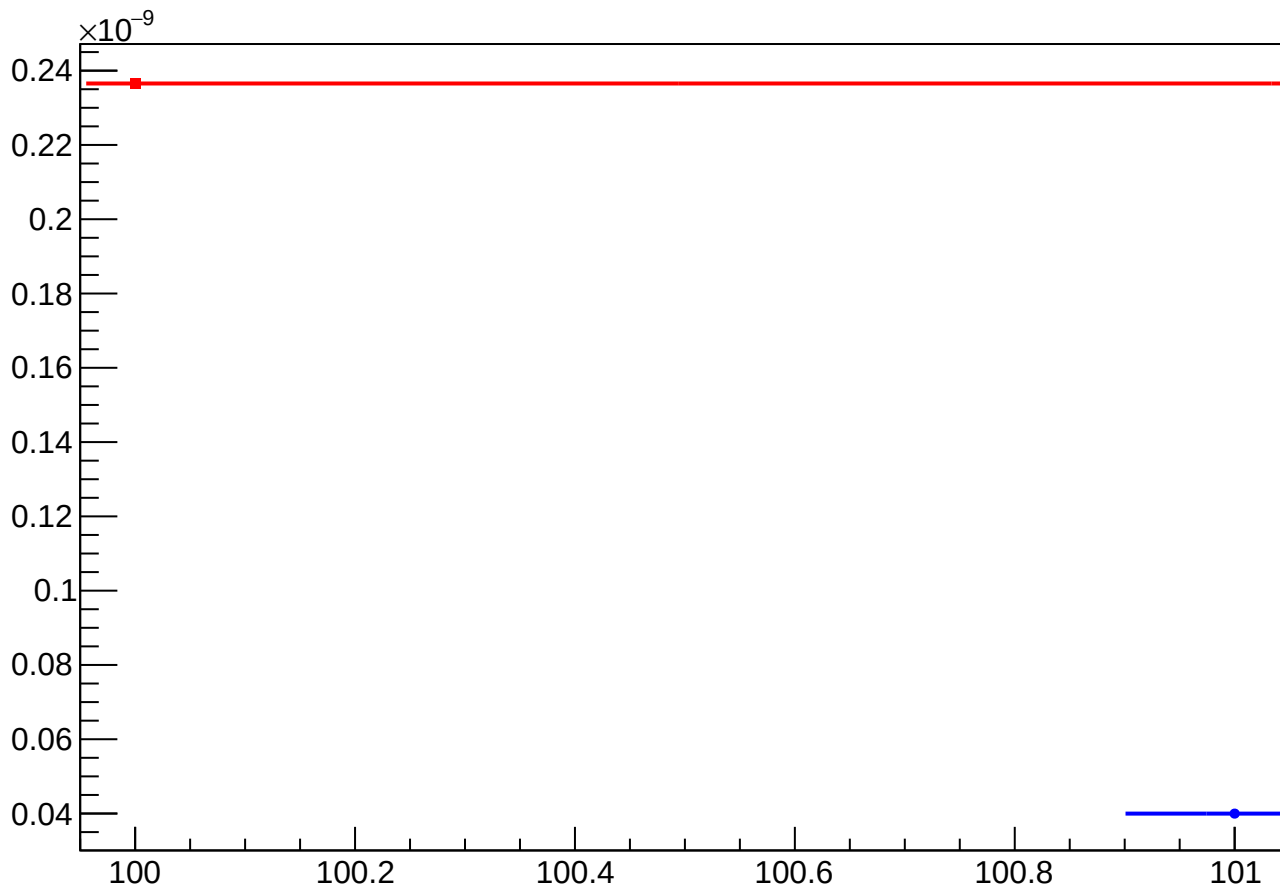
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/1

asym\_sam3\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

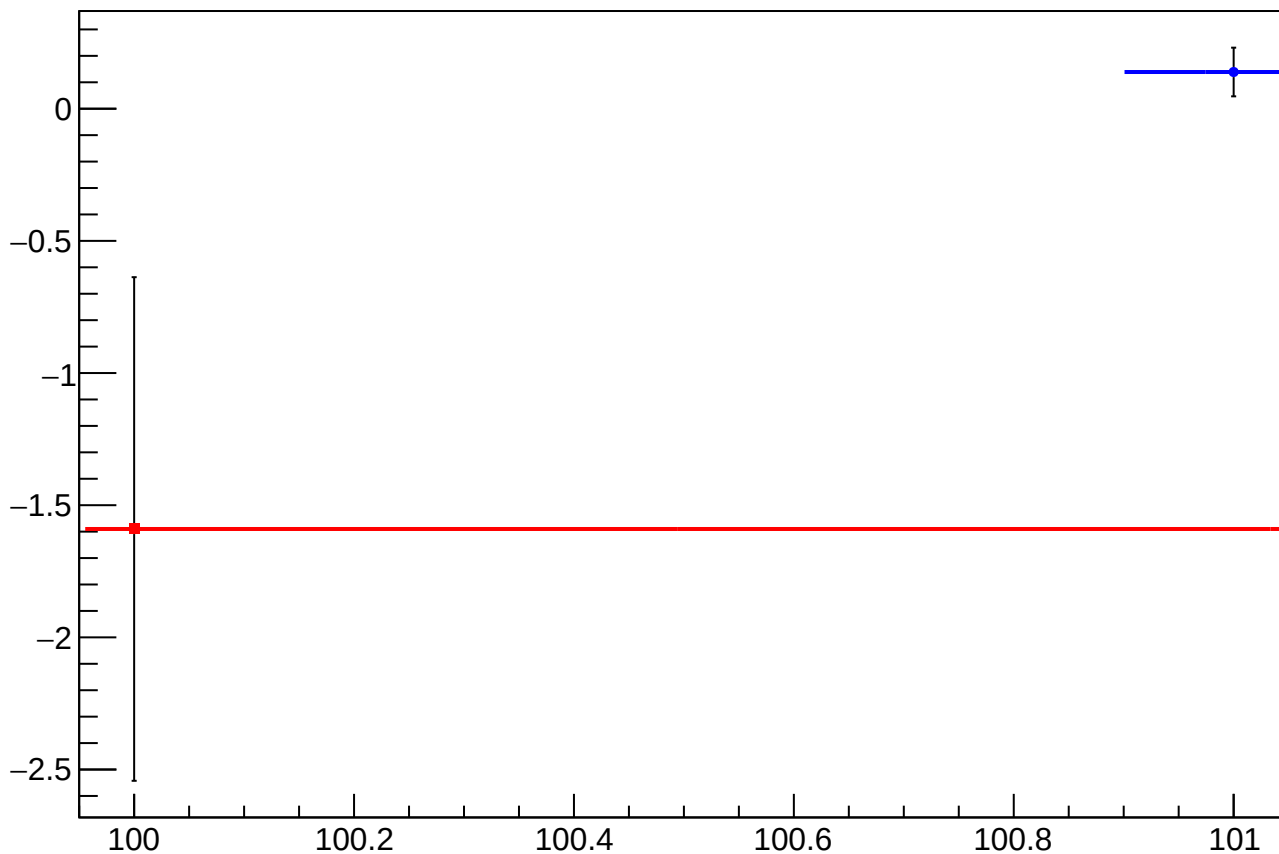
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 66757.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 66757.5/1

asym\_sam3\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.139+/-0.092  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.590+/-0.953  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

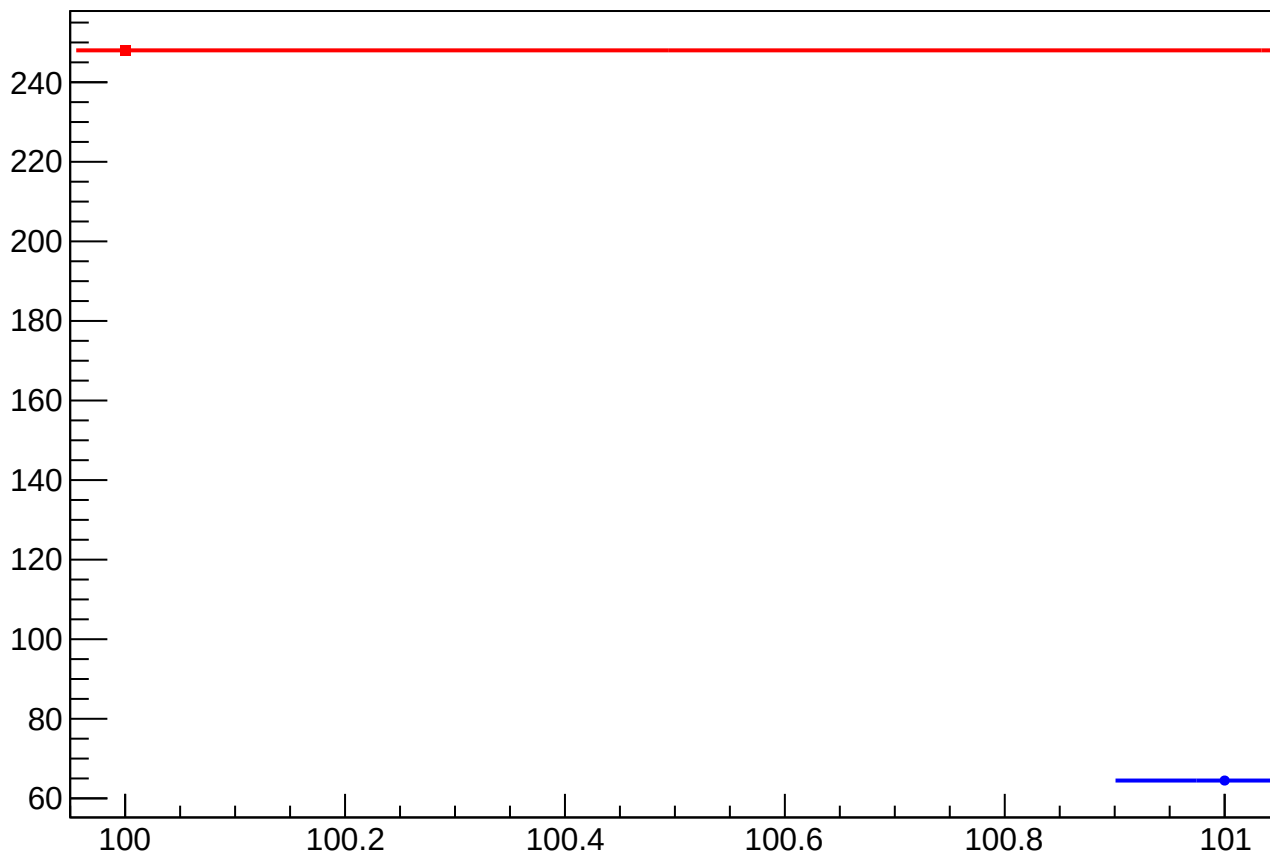
Right: 0.123+/-0.092  $\chi^2/\text{NDF}$ : 3.3/1

In: 0.139+/-0.092  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.092  $\chi^2/\text{NDF}$ : 3.3/1

asym\_sam3\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 64.477 $\pm$ 0.065  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 248.017 $\pm$ 0.674  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 66.176 $\pm$ 0.065  $\chi^2$ /NDF: 73547.0/1

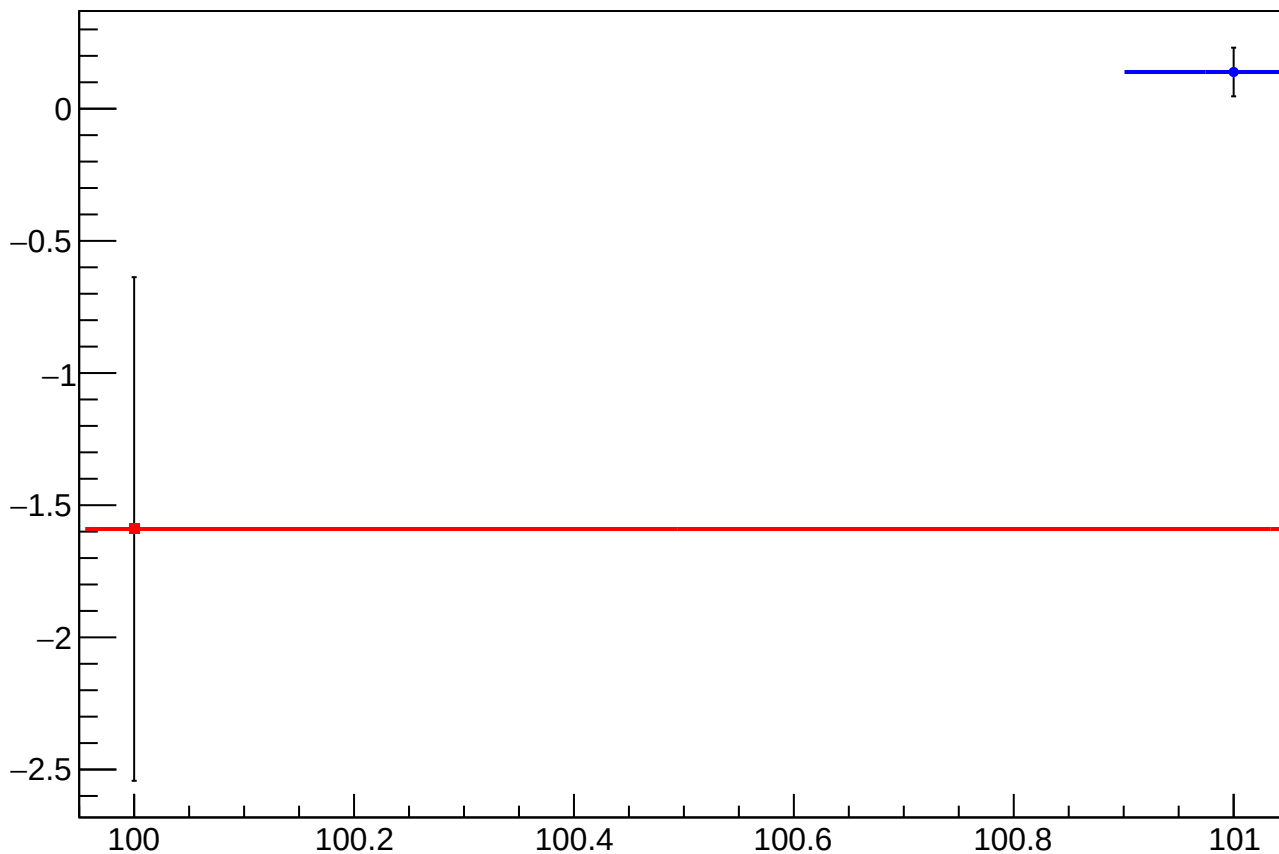
In: 64.477 $\pm$ 0.065  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.176 $\pm$ 0.065  $\chi^2$ /NDF: 73547.0/1



asym\_sam3\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.139 $\pm$ 0.092  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.590 $\pm$ 0.953  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

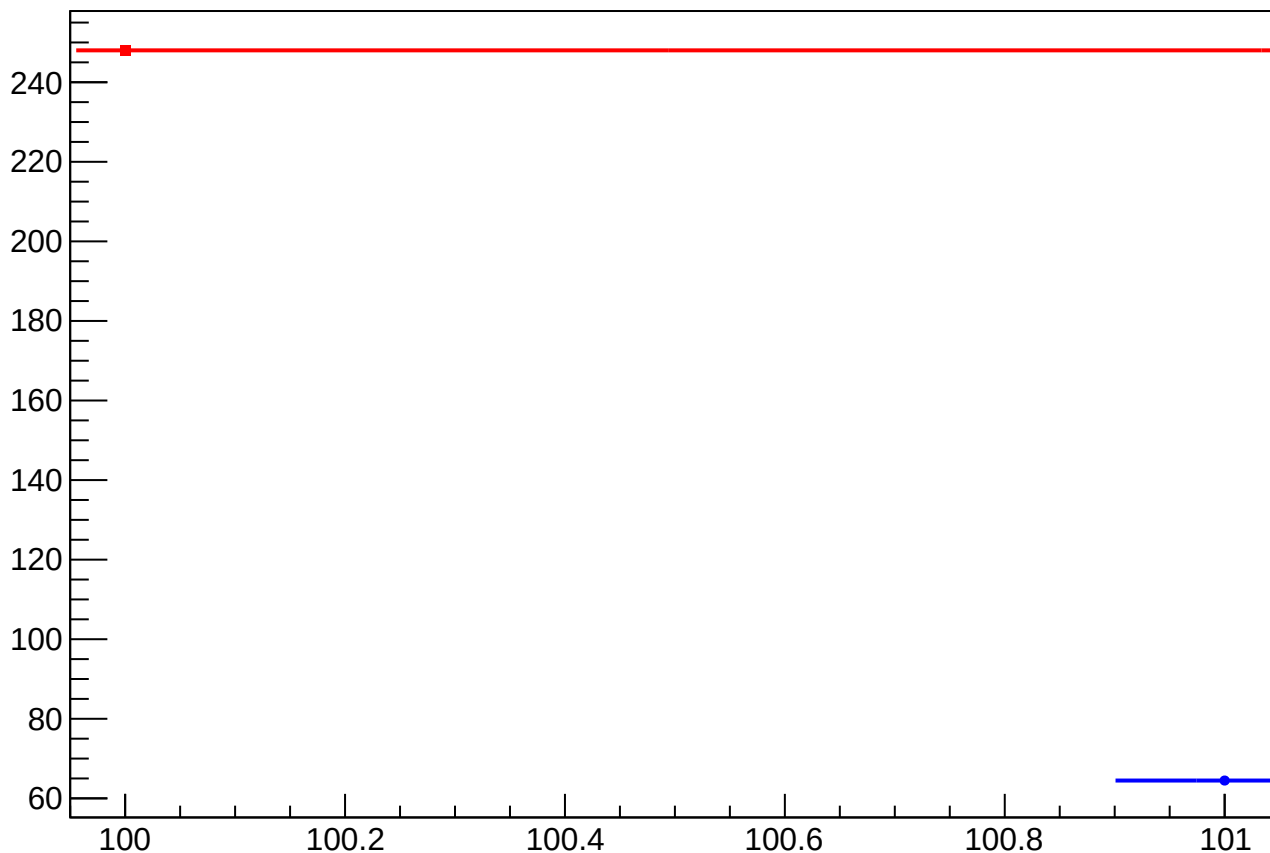
Right: 0.123 $\pm$ 0.092  $\chi^2$ /NDF: 3.3/1

In: 0.139 $\pm$ 0.092  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.123 $\pm$ 0.092  $\chi^2$ /NDF: 3.3/1

asym\_sam3\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 64.477+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 248.017+/-0.674  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

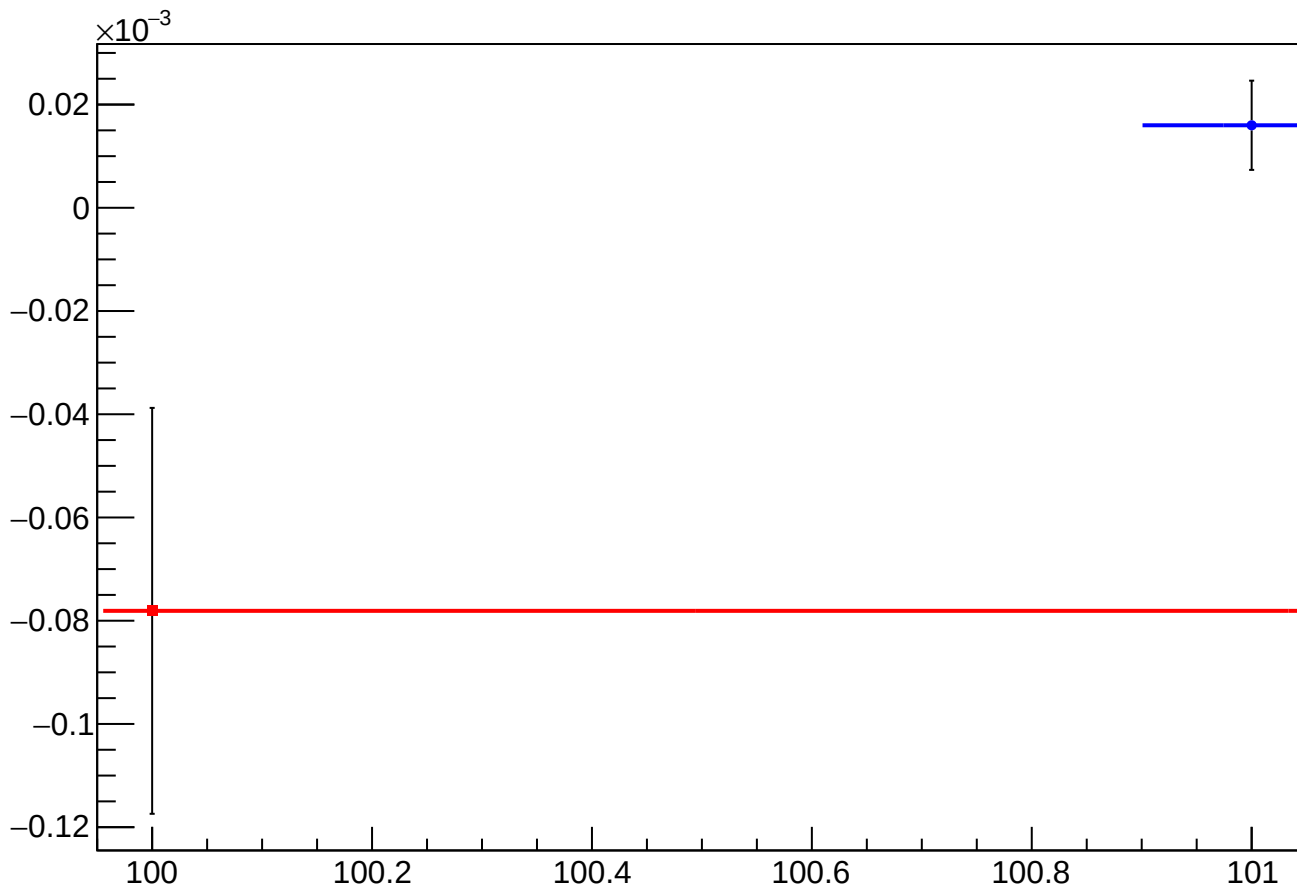
Right: 66.176+/-0.065  $\chi^2/\text{NDF}$ : 73547.0/1

In: 64.477+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.176+/-0.065  $\chi^2/\text{NDF}$ : 73547.0/1

asym\_sam3\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

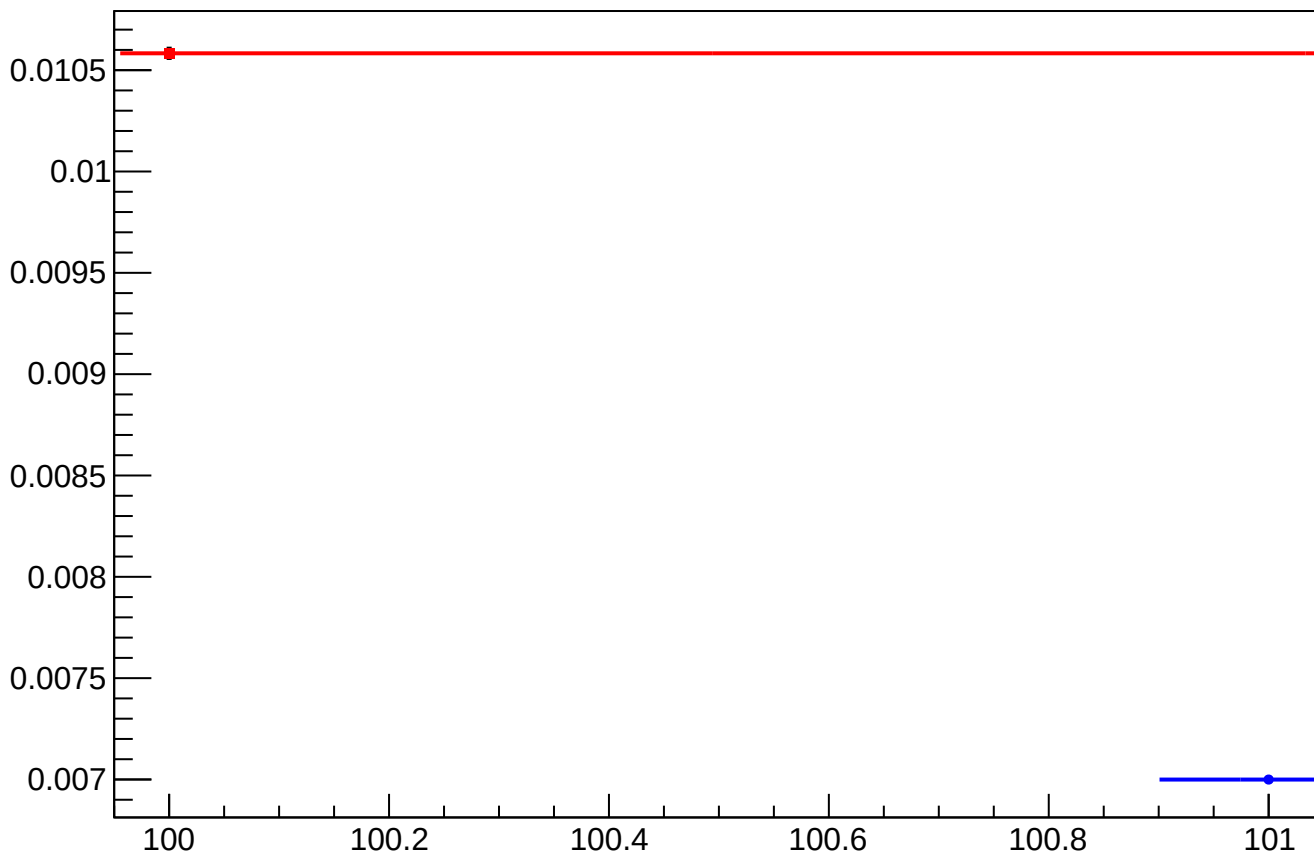
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.5/1

asym\_sam3\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

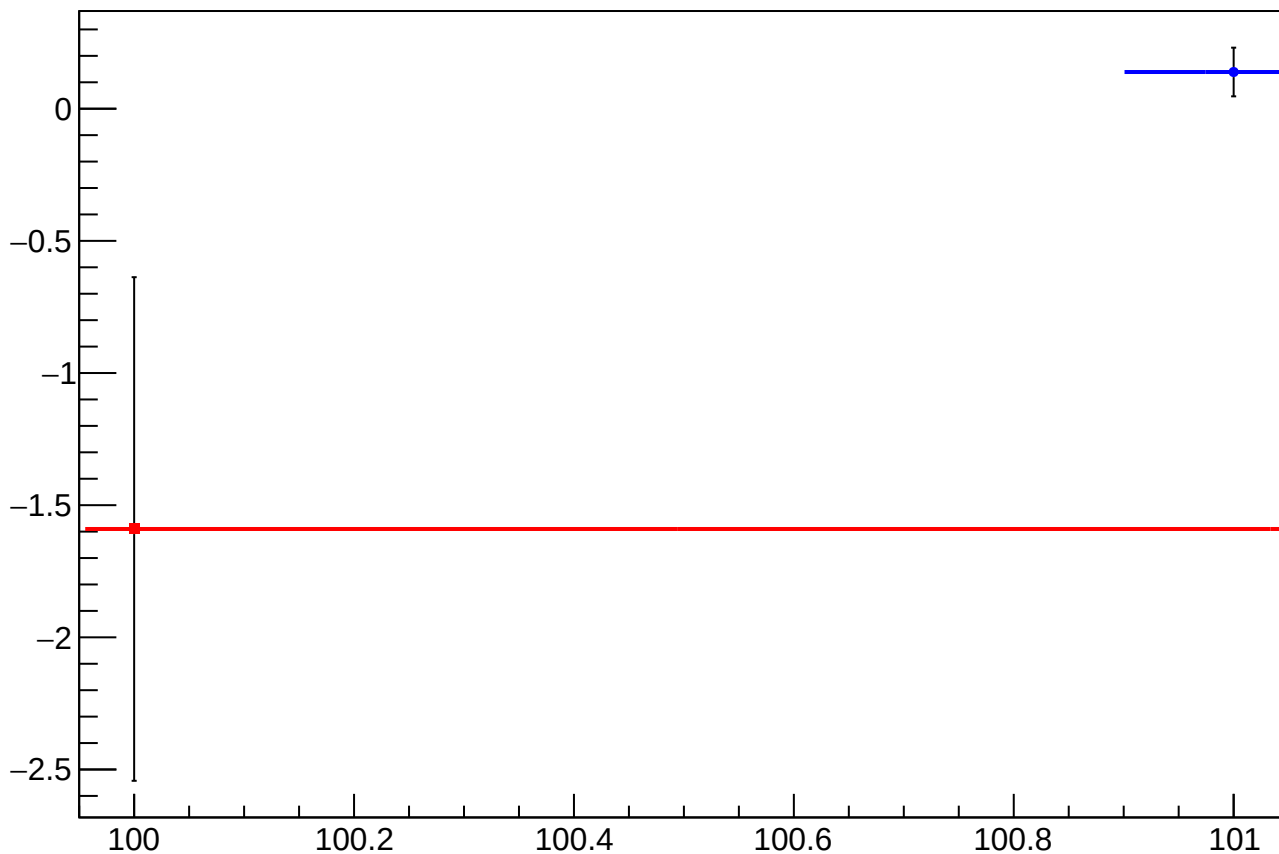
Right: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 15848.2/1

In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 15848.2/1

asym\_sam3\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.139 $\pm$ 0.092  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.590 $\pm$ 0.953  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

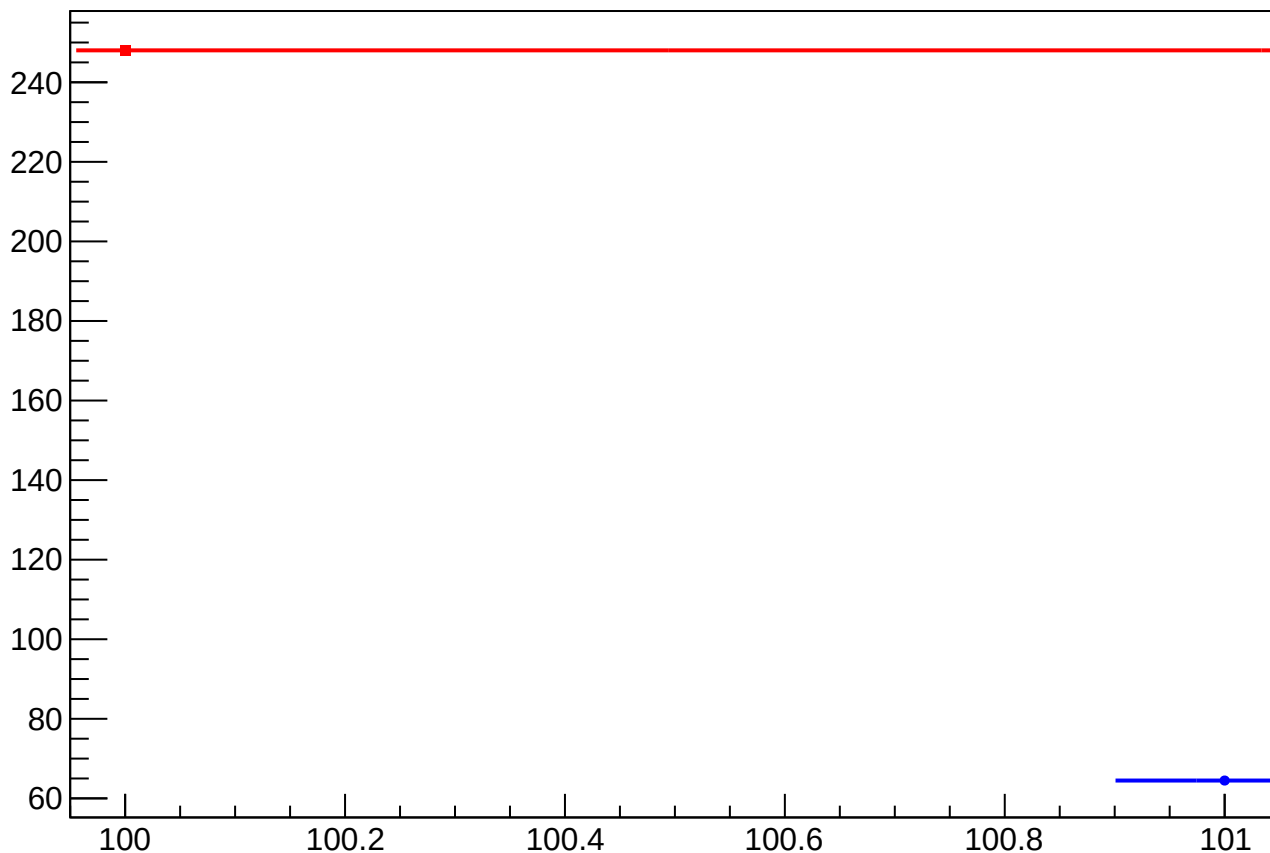
Right: 0.123 $\pm$ 0.092  $\chi^2$ /NDF: 3.3/1

In: 0.139 $\pm$ 0.092  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.123 $\pm$ 0.092  $\chi^2$ /NDF: 3.3/1

asym\_sam3\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 64.482 $\pm$ 0.065  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 248.028 $\pm$ 0.674  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

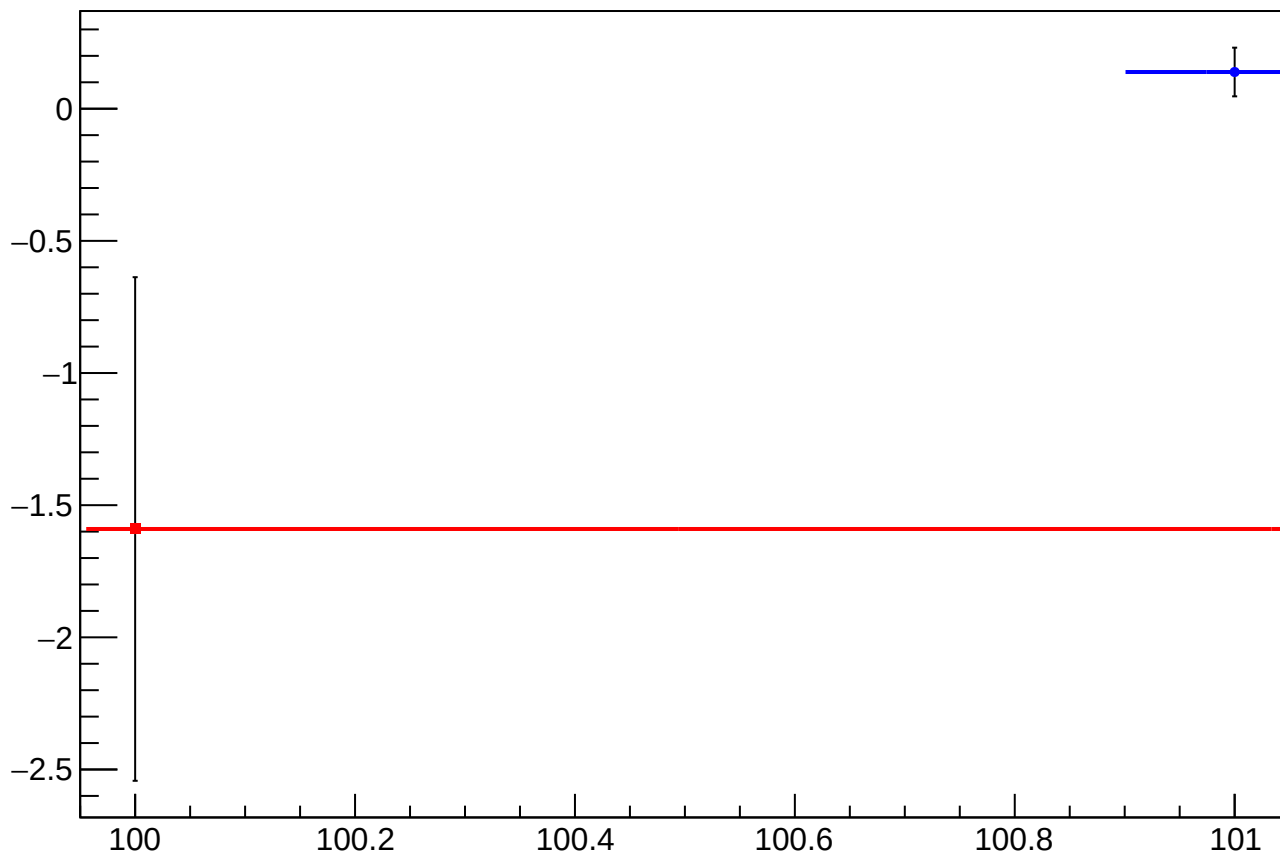
Right: 66.181 $\pm$ 0.065  $\chi^2$ /NDF: 73545.7/1

In: 64.482 $\pm$ 0.065  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.181 $\pm$ 0.065  $\chi^2$ /NDF: 73545.7/1

asym\_sam3\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.139 $\pm$ 0.092  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.590 $\pm$ 0.953  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

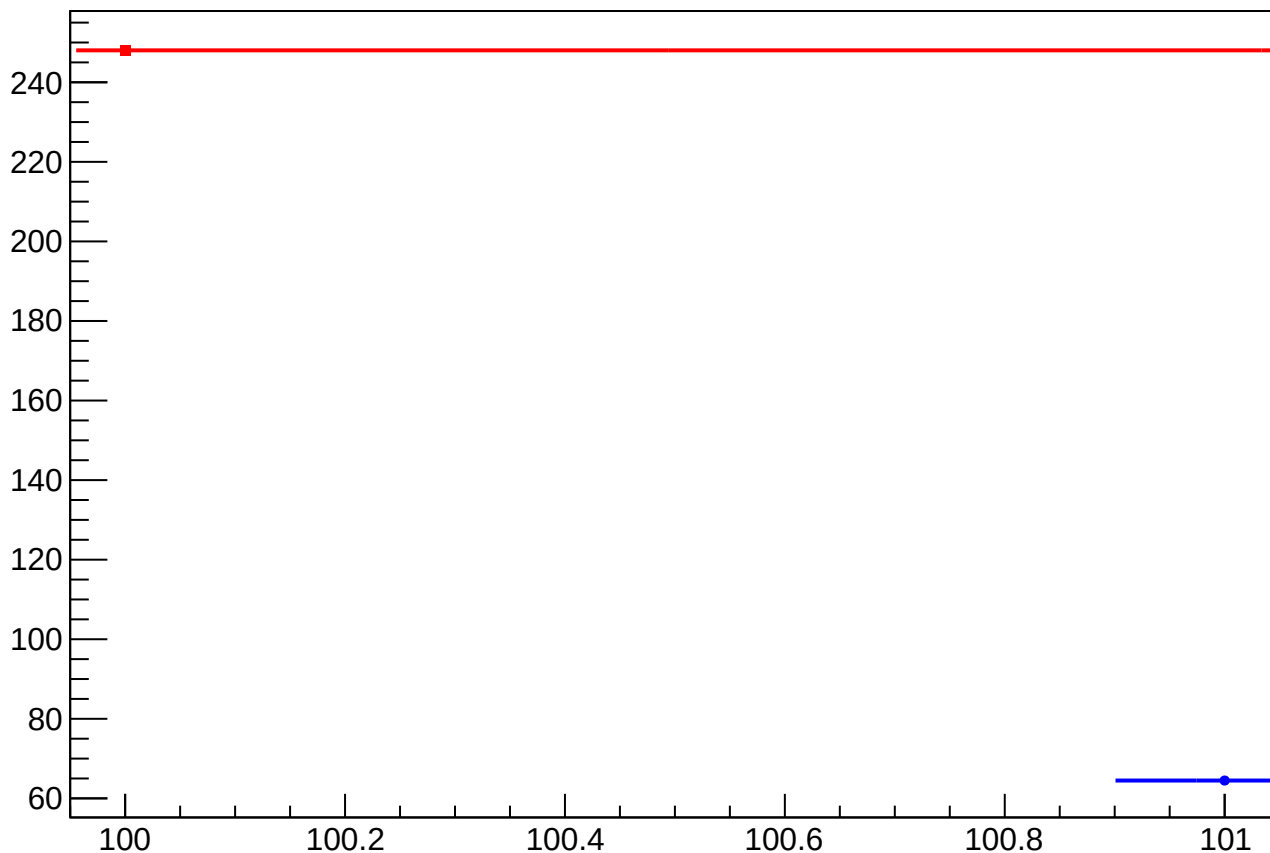
Right: 0.123 $\pm$ 0.092  $\chi^2$ /NDF: 3.3/1

In: 0.139 $\pm$ 0.092  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.123 $\pm$ 0.092  $\chi^2$ /NDF: 3.3/1

asym\_sam3\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 64.482 $\pm$ 0.065  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 248.028 $\pm$ 0.674  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 66.181 $\pm$ 0.065  $\chi^2$ /NDF: 73545.7/1

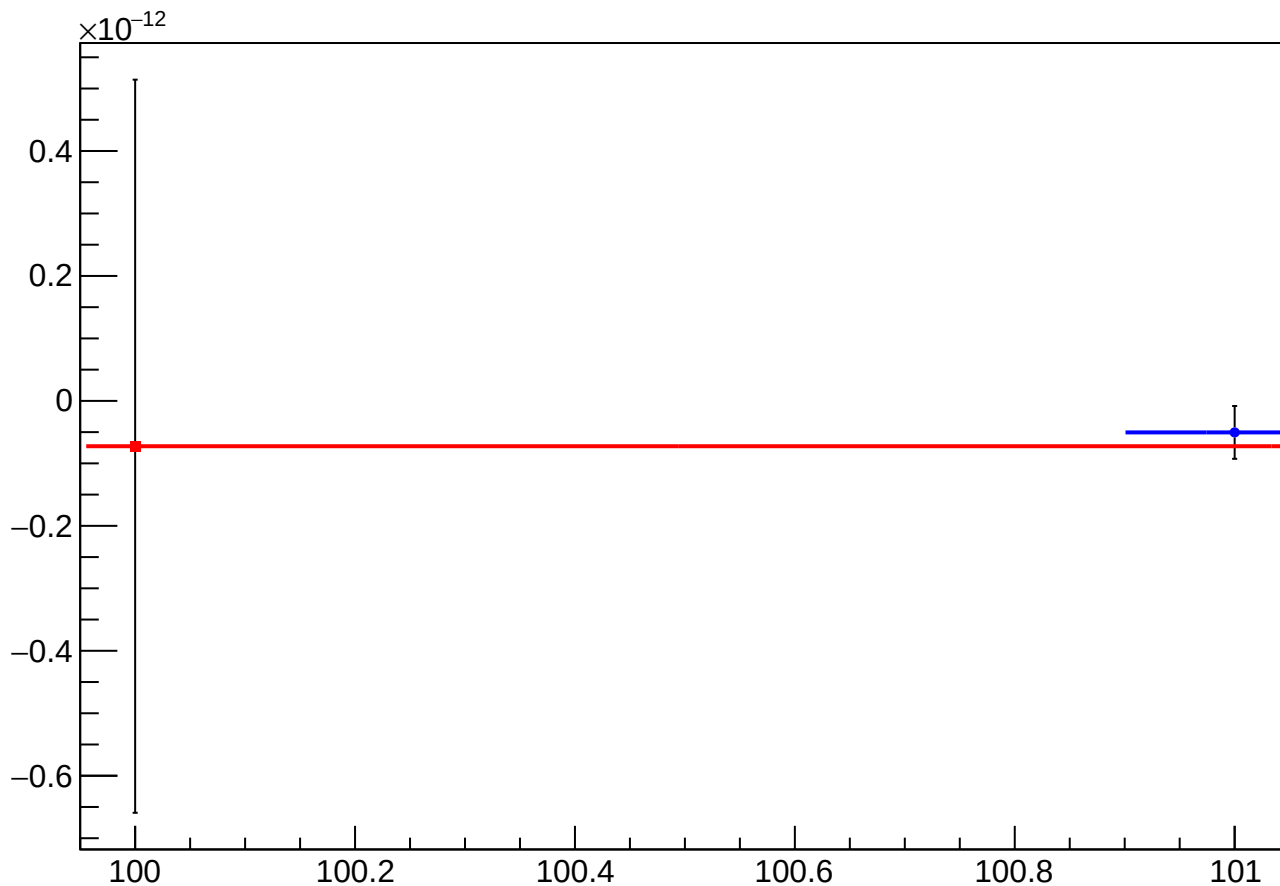
In: 64.482 $\pm$ 0.065  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.181 $\pm$ 0.065  $\chi^2$ /NDF: 73545.7/1



asym\_sam3\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

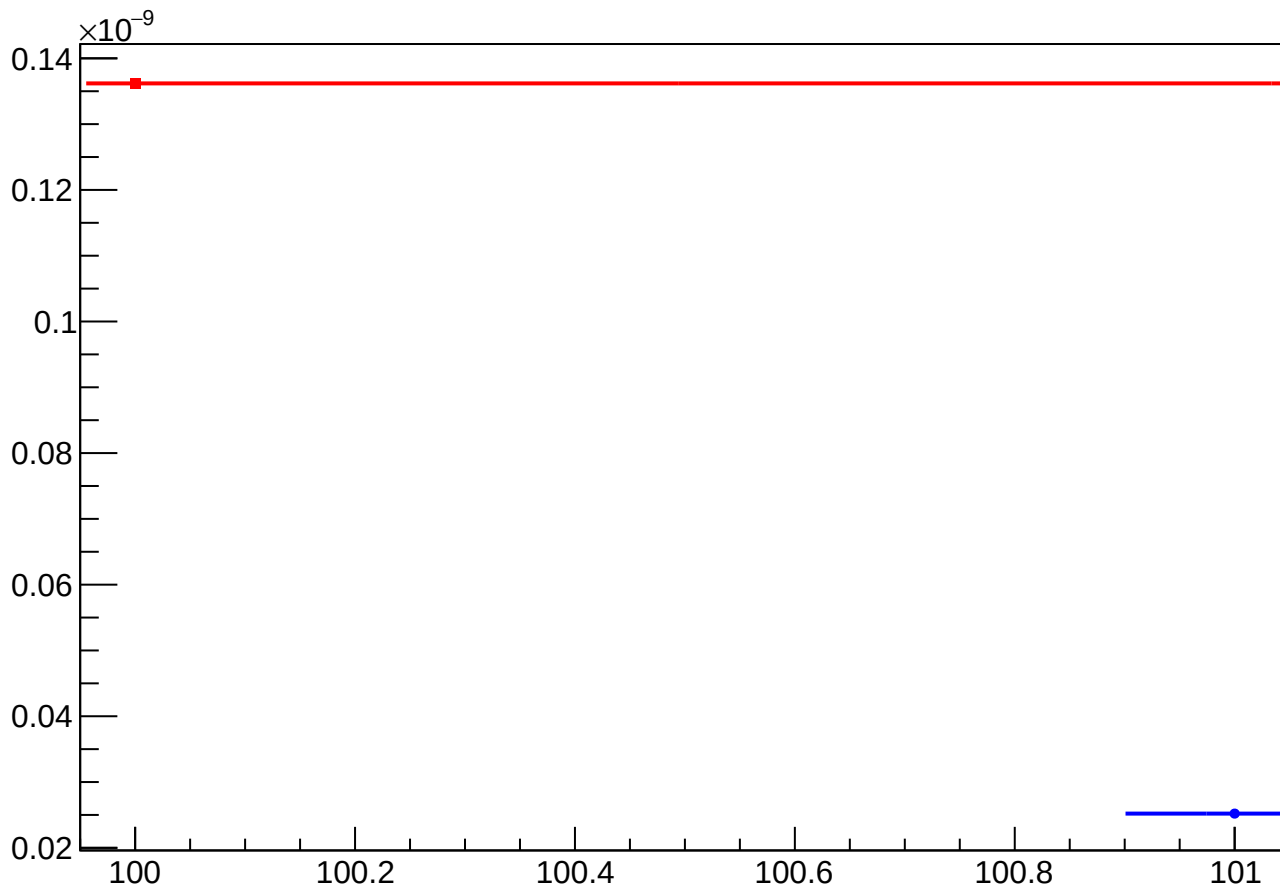
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam3\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

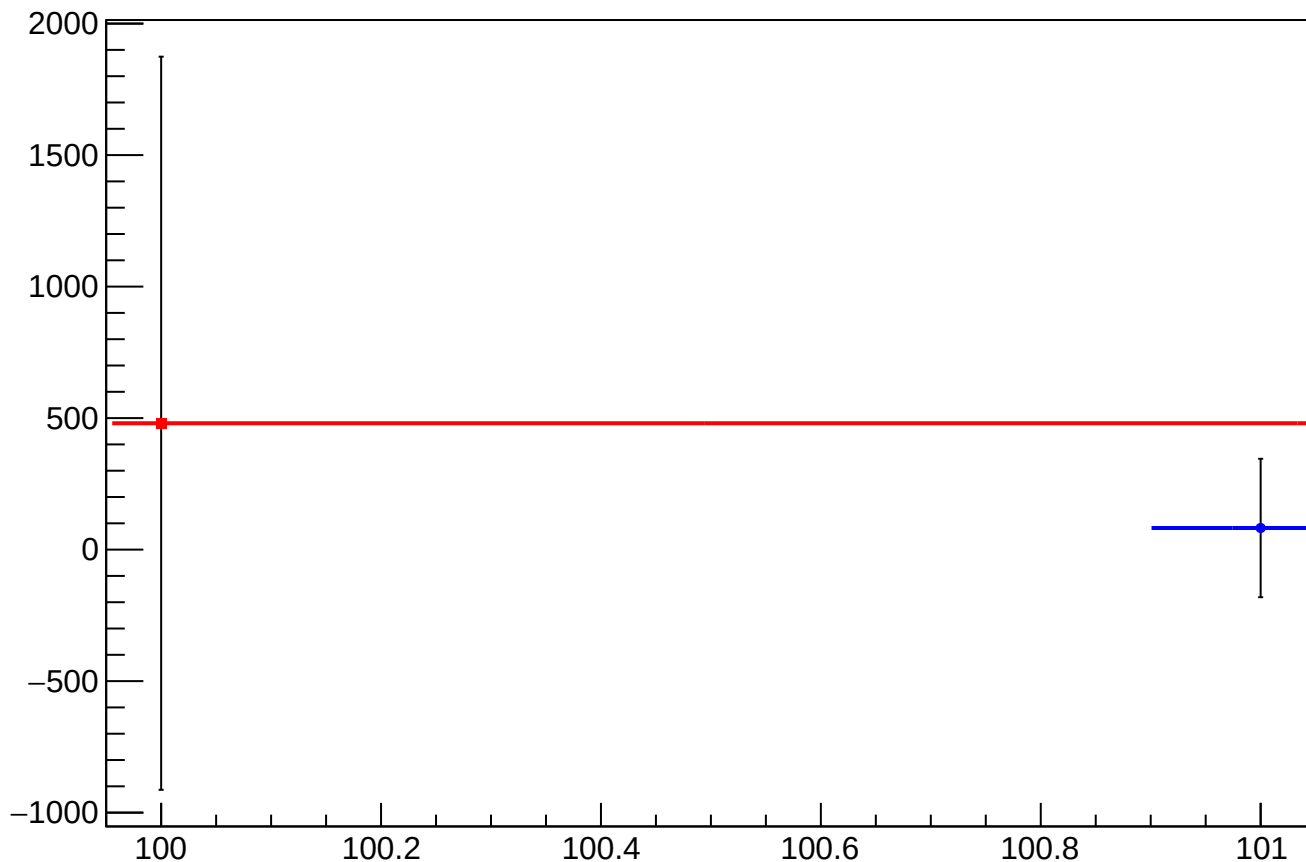
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 71192.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 71192.7/1

# reg\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 82.219+/-263.180  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 480.508+/-1393.713  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

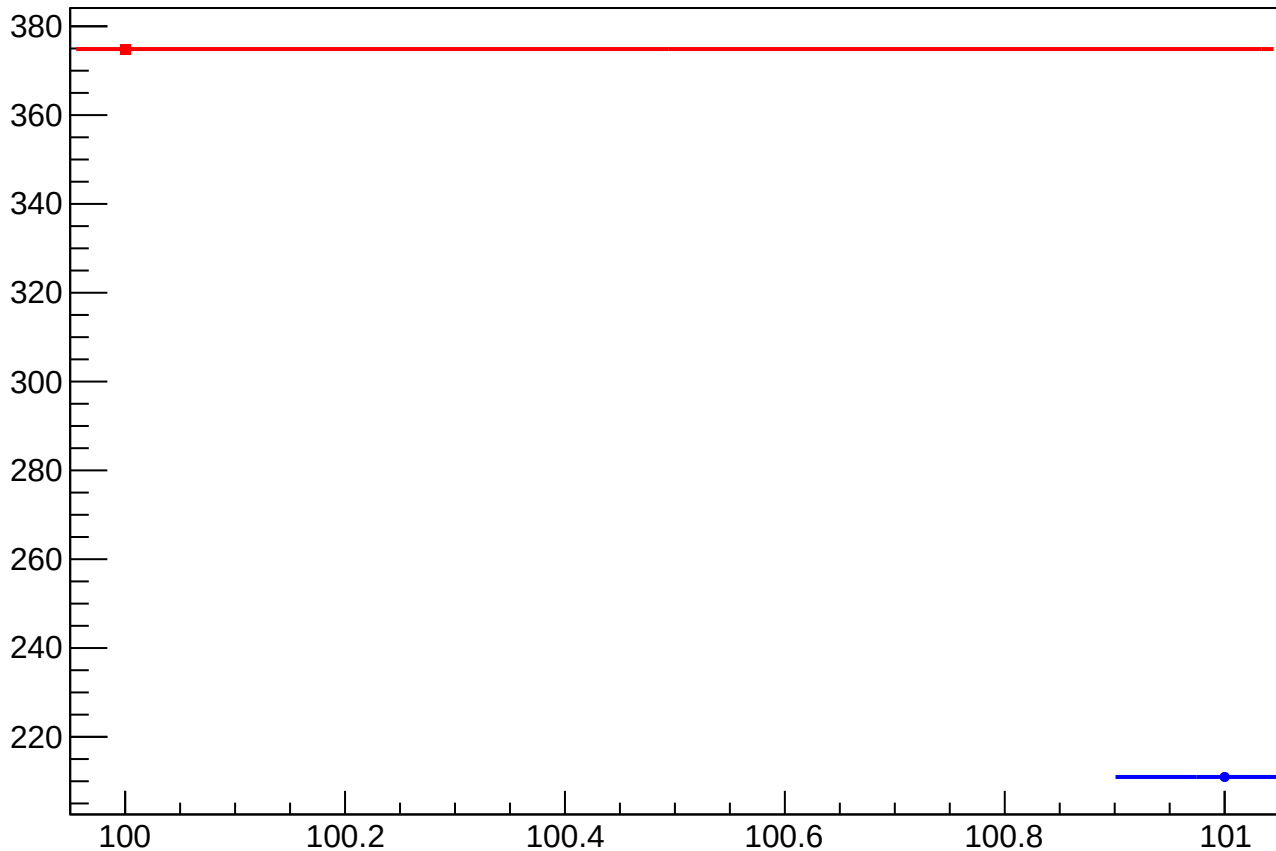
Right: 95.932+/-258.609  $\chi^2/\text{NDF}$ : 0.1/1

In: 82.219+/-263.180  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.932+/-258.609  $\chi^2/\text{NDF}$ : 0.1/1

# reg\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 210.965 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 374.873 $\pm$ 0.986  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

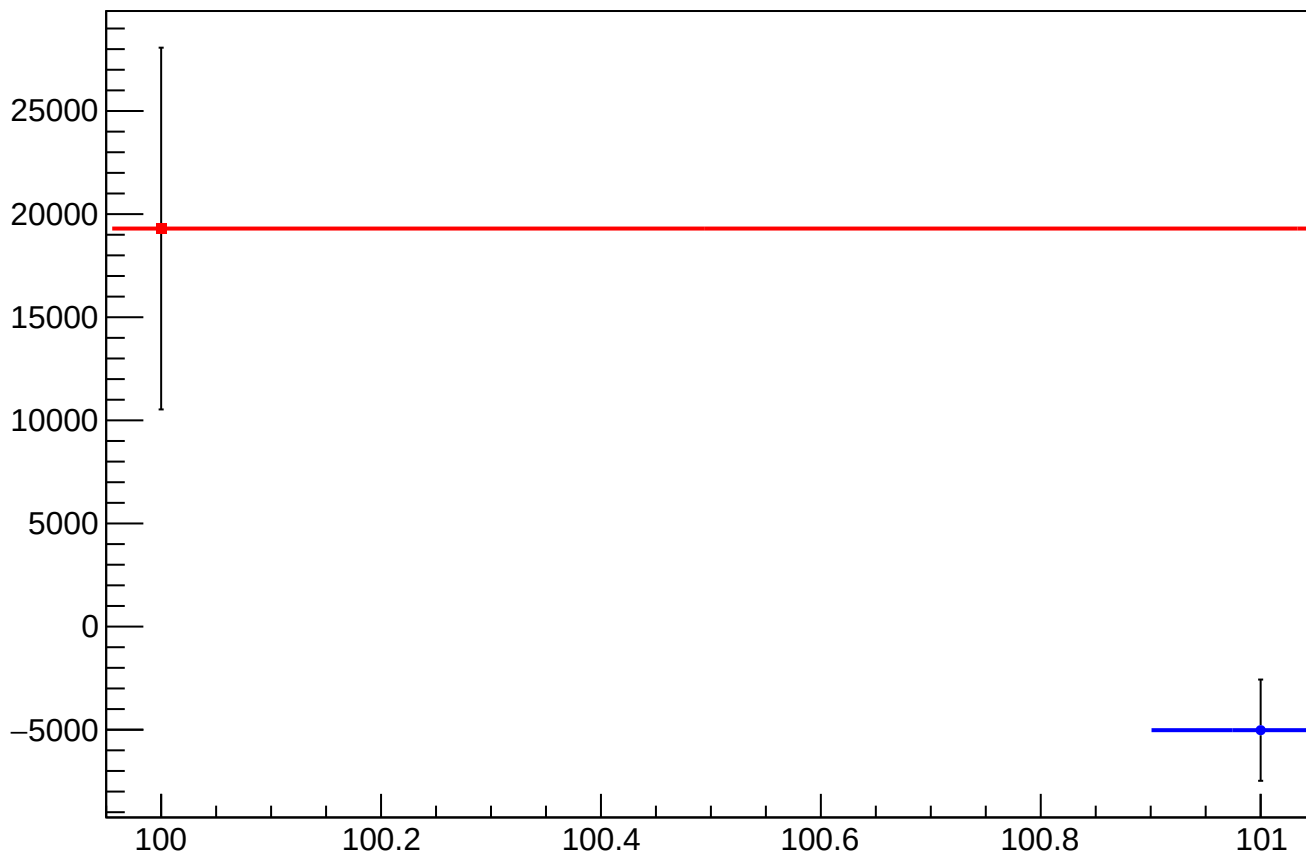
Right: 216.609 $\pm$ 0.183  $\chi^2$ /NDF: 26709.6/1

In: 210.965 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 216.609 $\pm$ 0.183  $\chi^2$ /NDF: 26709.6/1

asym\_sam4\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -5022.688+/-2454.682  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19300.199+/-8770.496  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

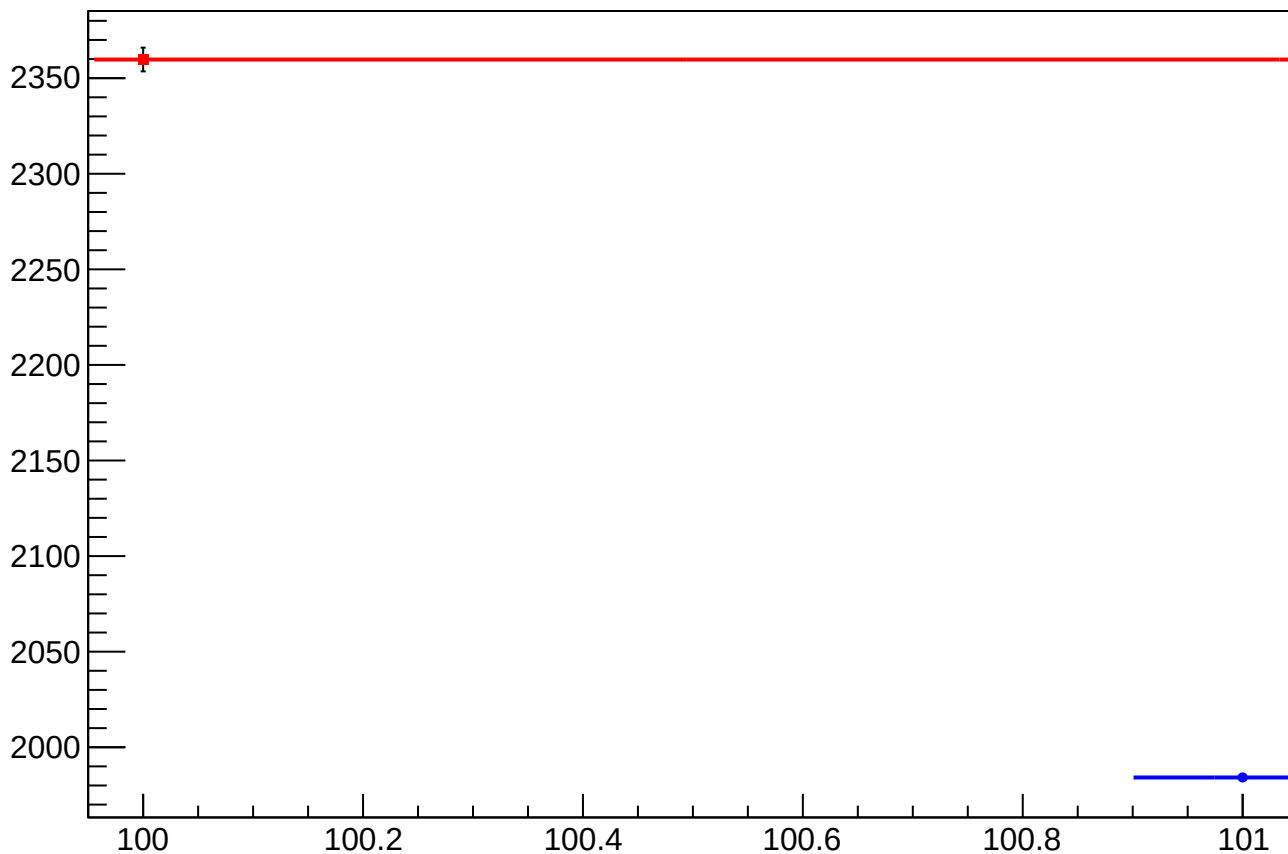
Right: -3255.818+/-2363.844  $\chi^2/\text{NDF}$ : 7.1/1

In: -5022.688+/-2454.682  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3255.818+/-2363.844  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam4\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1984.188+/-1.736  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2359.755+/-6.202  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

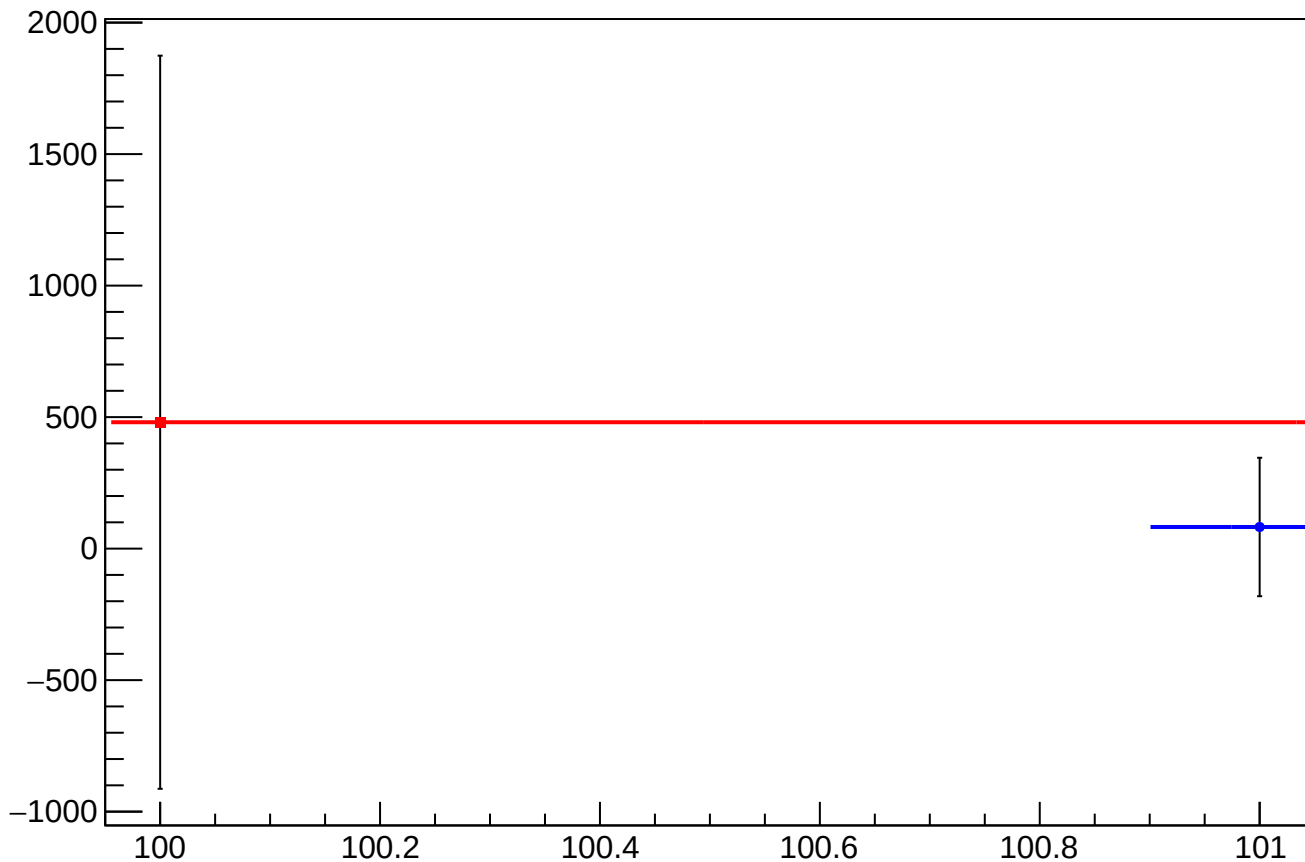
Right: 2011.470+/-1.671  $\chi^2/\text{NDF}$ : 3401.0/1

In: 1984.188+/-1.736  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2011.470+/-1.671  $\chi^2/\text{NDF}$ : 3401.0/1

# cor\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 82.230+/-263.180  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 480.533+/-1393.713  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

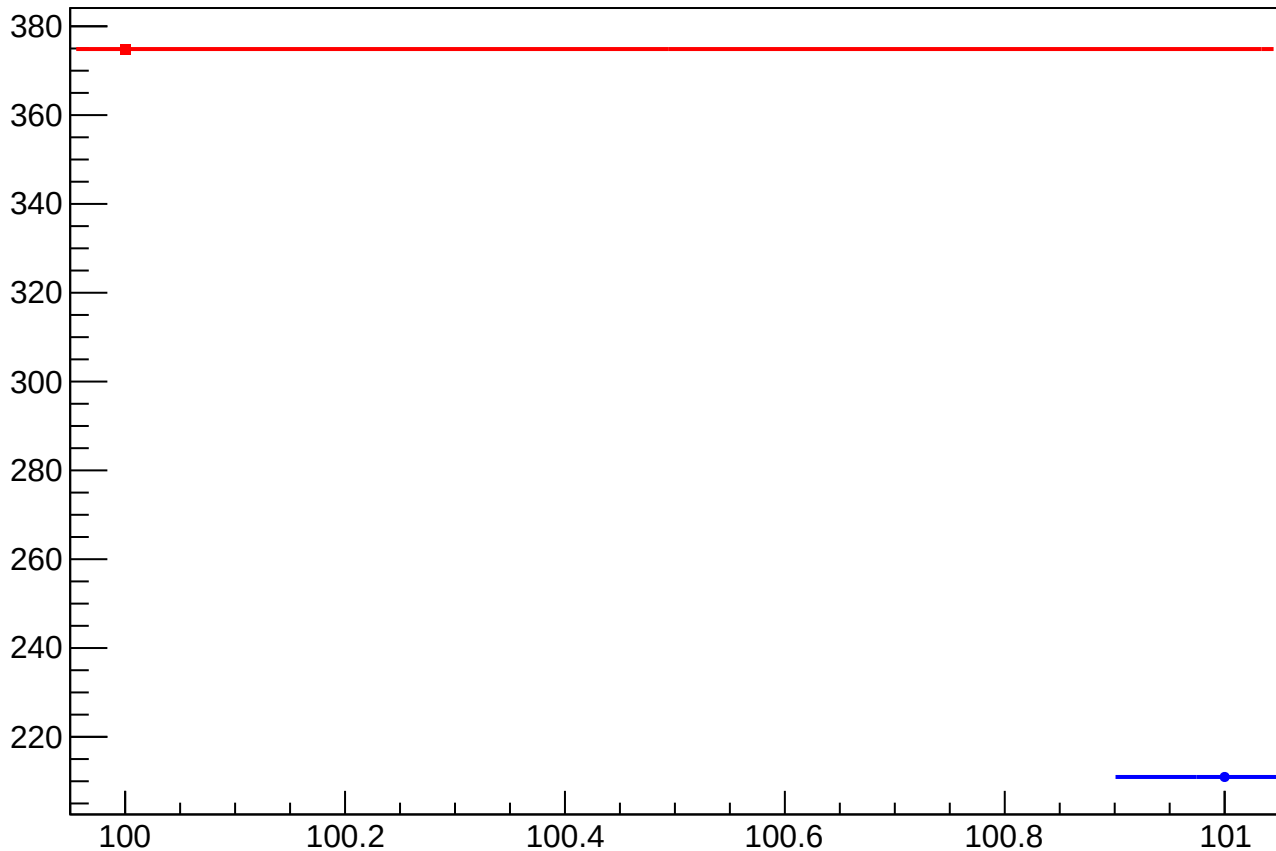
Right: 95.944+/-258.609  $\chi^2/\text{NDF}$ : 0.1/1

In: 82.230+/-263.180  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.944+/-258.609  $\chi^2/\text{NDF}$ : 0.1/1

# cor\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 210.965 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 374.873 $\pm$ 0.986  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 216.609 $\pm$ 0.183  $\chi^2$ /NDF: 26709.6/1

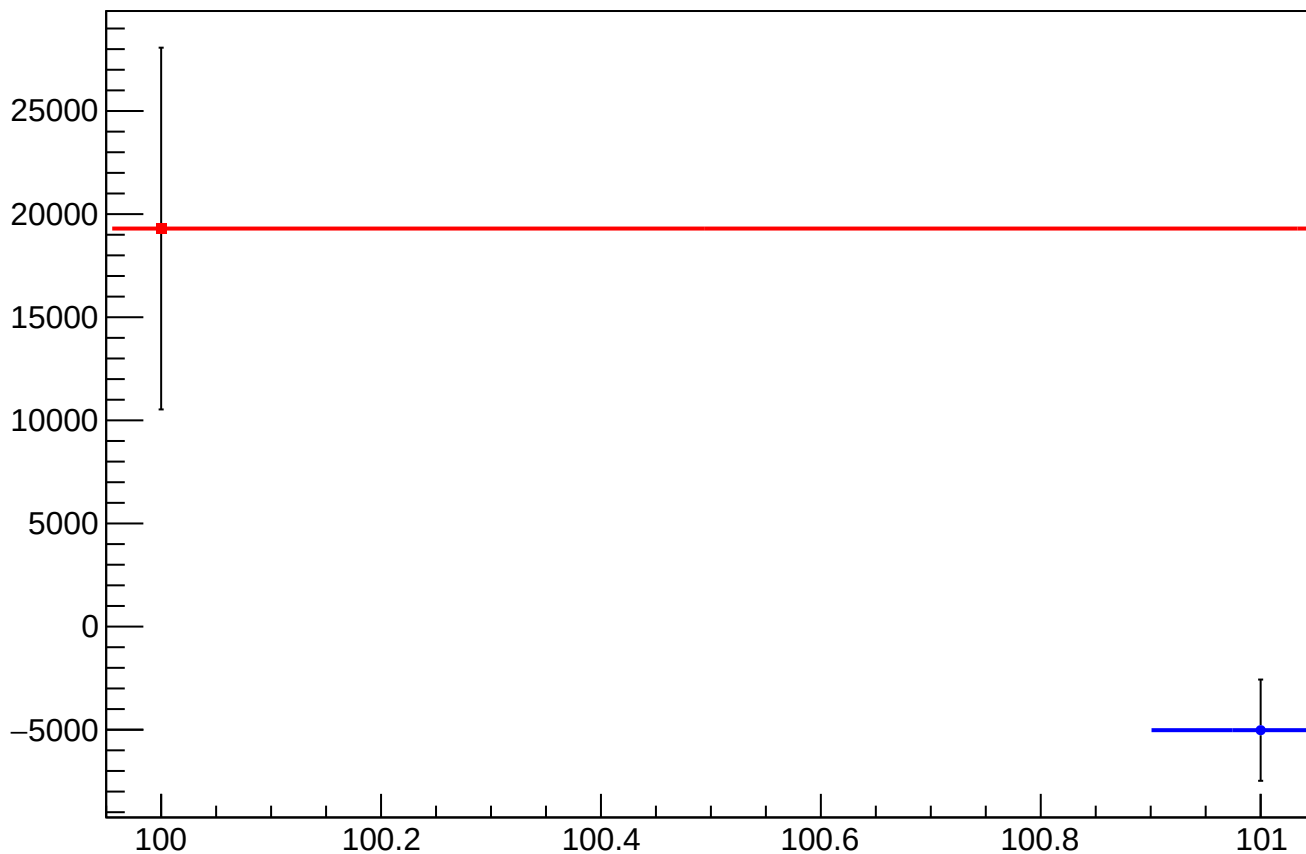
In: 210.965 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 216.609 $\pm$ 0.183  $\chi^2$ /NDF: 26709.6/1



asym\_sam4\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -5022.683 $\pm$ 2454.680  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19300.223 $\pm$ 8770.499  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

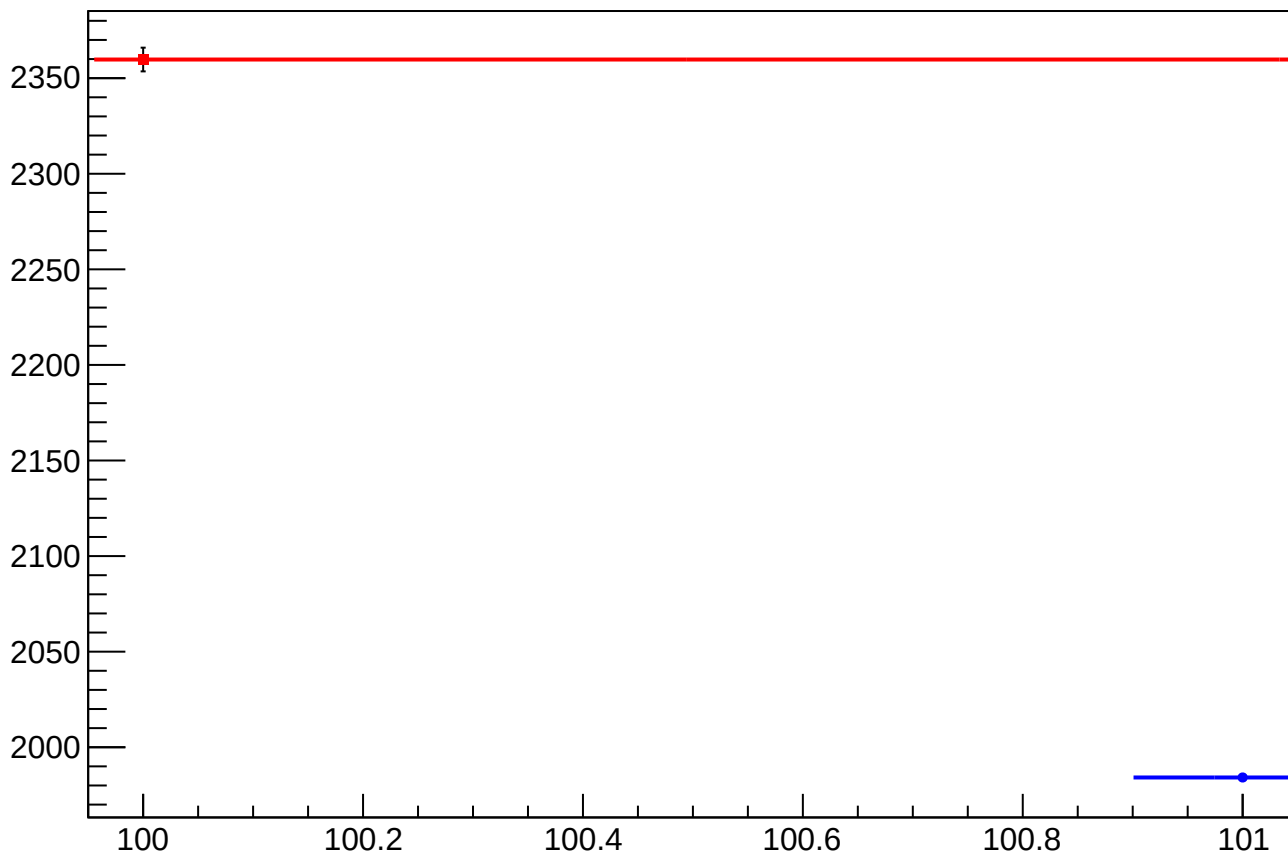
Right: -3255.816 $\pm$ 2363.843  $\chi^2/\text{NDF}$ : 7.1/1

In: -5022.683 $\pm$ 2454.680  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3255.816 $\pm$ 2363.843  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam4\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1984.186 $\pm$ 1.736  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2359.756 $\pm$ 6.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

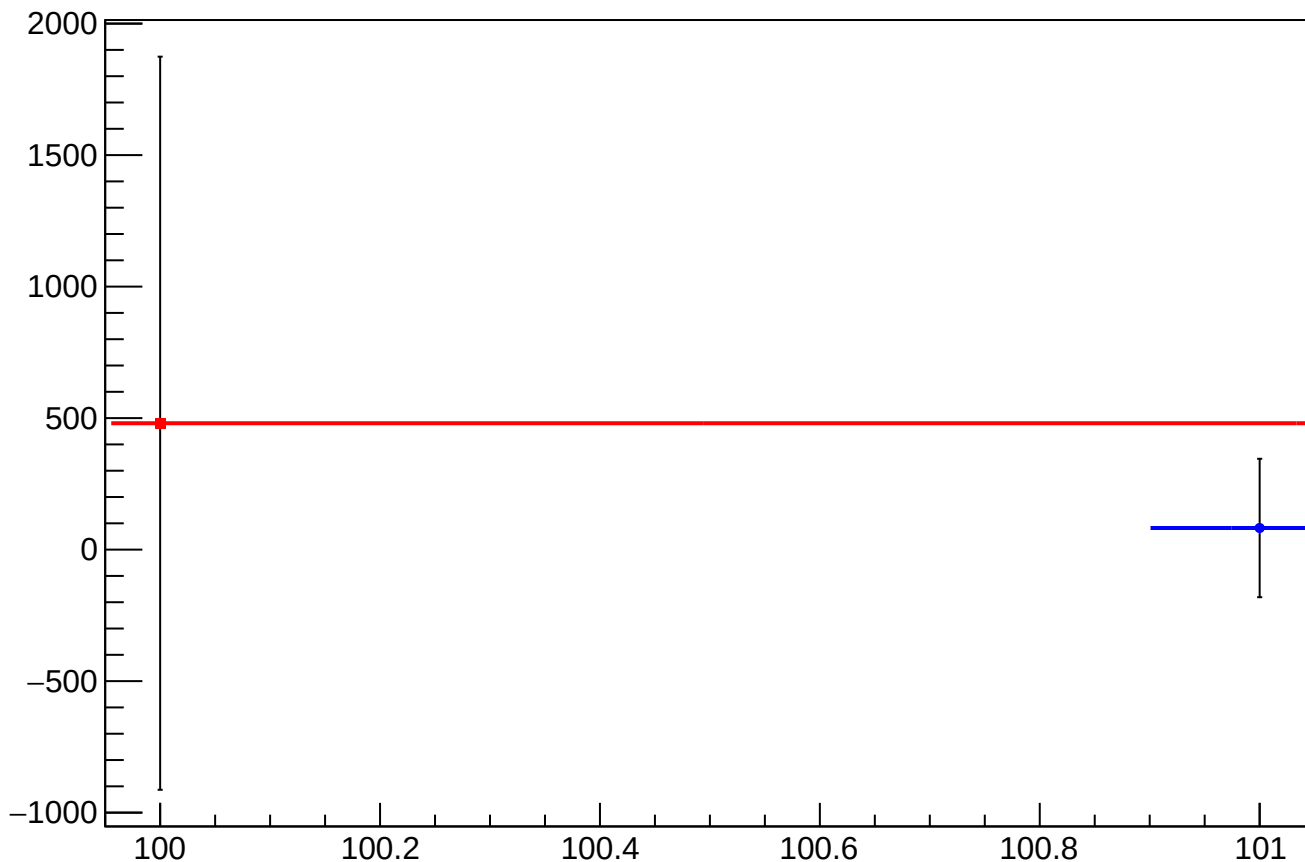
Right: 2011.469 $\pm$ 1.671  $\chi^2$ /NDF: 3401.0/1

In: 1984.186 $\pm$ 1.736  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2011.469 $\pm$ 1.671  $\chi^2$ /NDF: 3401.0/1

eigen\_cor\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 82.230+/-263.180  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 480.533+/-1393.713  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

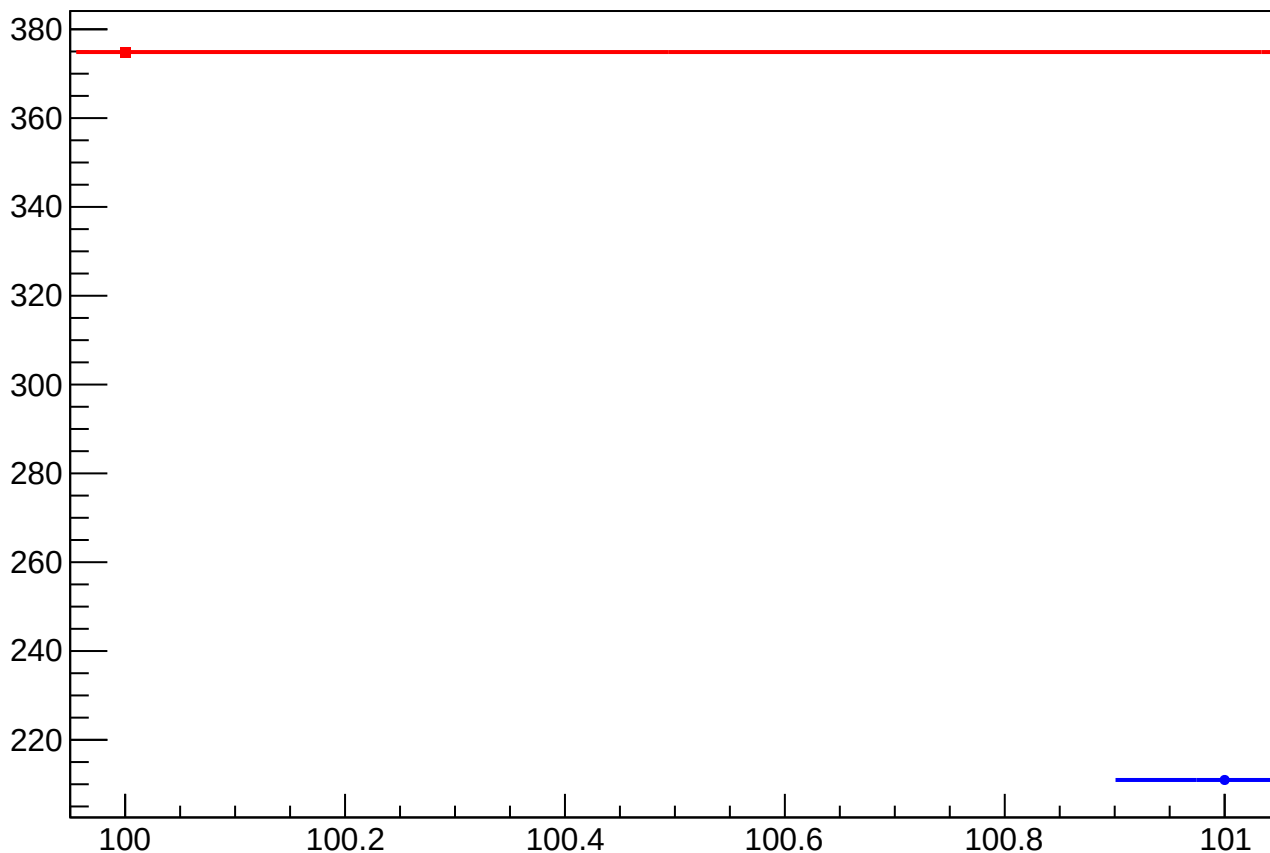
Right: 95.944+/-258.609  $\chi^2/\text{NDF}$ : 0.1/1

In: 82.230+/-263.180  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.944+/-258.609  $\chi^2/\text{NDF}$ : 0.1/1

# eigen\_cor\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 210.965 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 374.873 $\pm$ 0.986  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

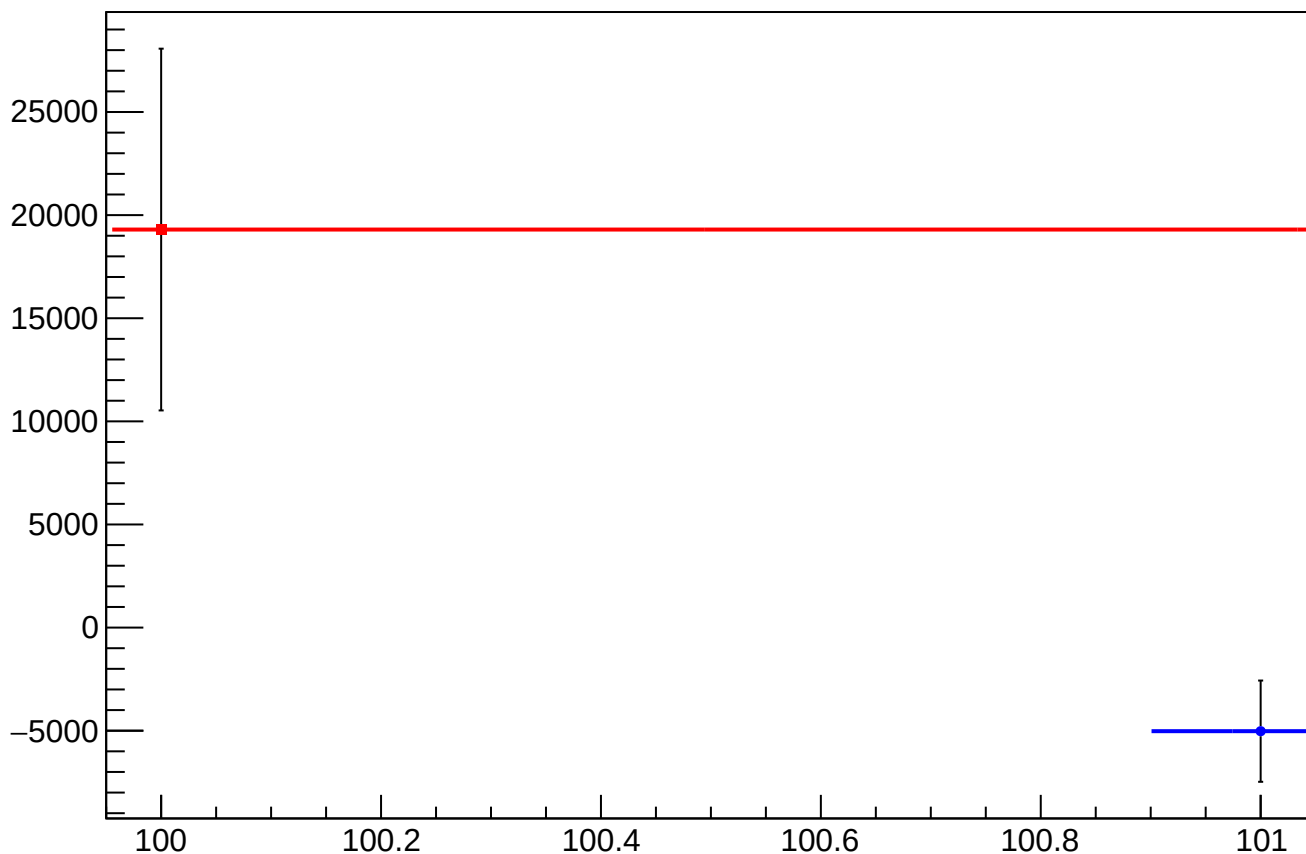
Right: 216.609 $\pm$ 0.183  $\chi^2$ /NDF: 26709.6/1

In: 210.965 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 216.609 $\pm$ 0.183  $\chi^2$ /NDF: 26709.6/1

asym\_sam4\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -5022.683+/-2454.680  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19300.223+/-8770.499  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

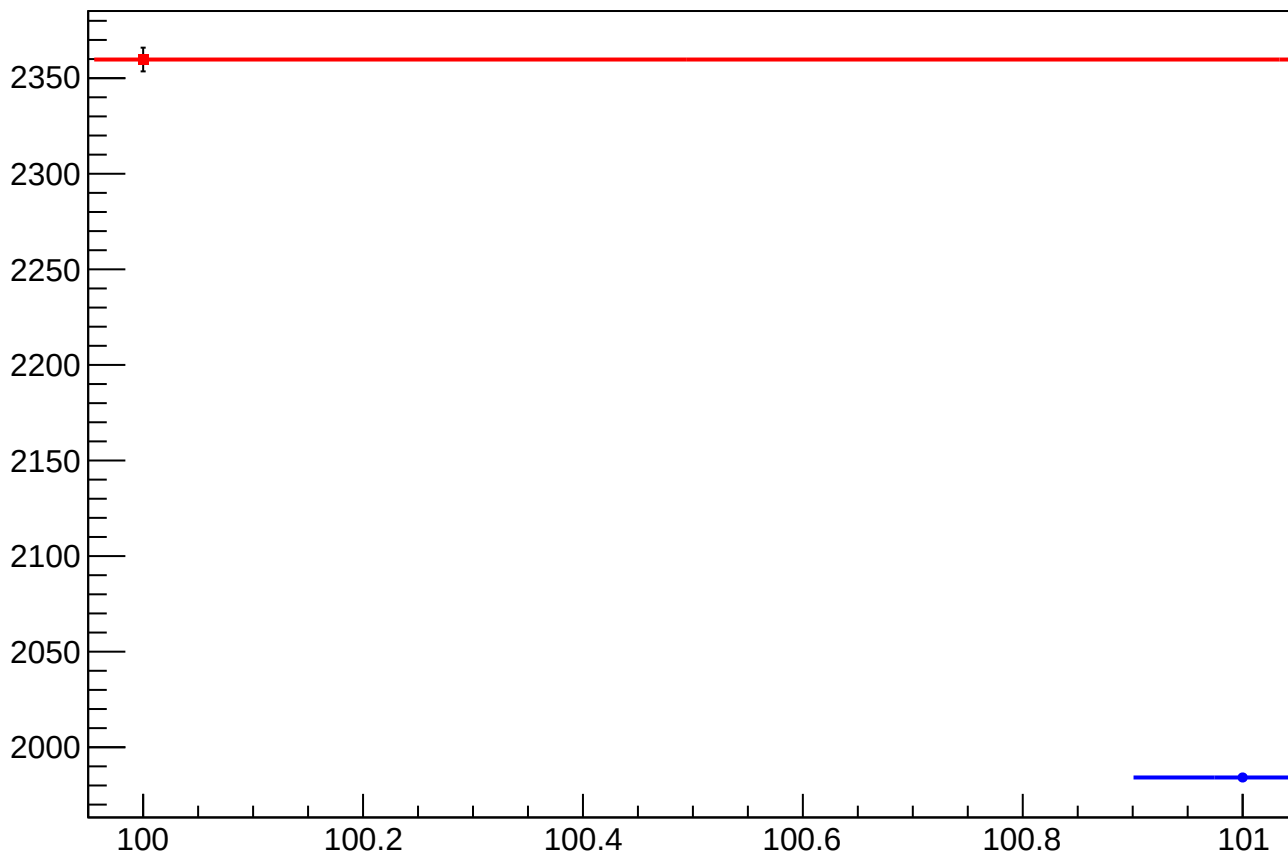
Right: -3255.816+/-2363.843  $\chi^2/\text{NDF}$ : 7.1/1

In: -5022.683+/-2454.680  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3255.816+/-2363.843  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam4\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1984.186 $\pm$ 1.736  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2359.756 $\pm$ 6.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

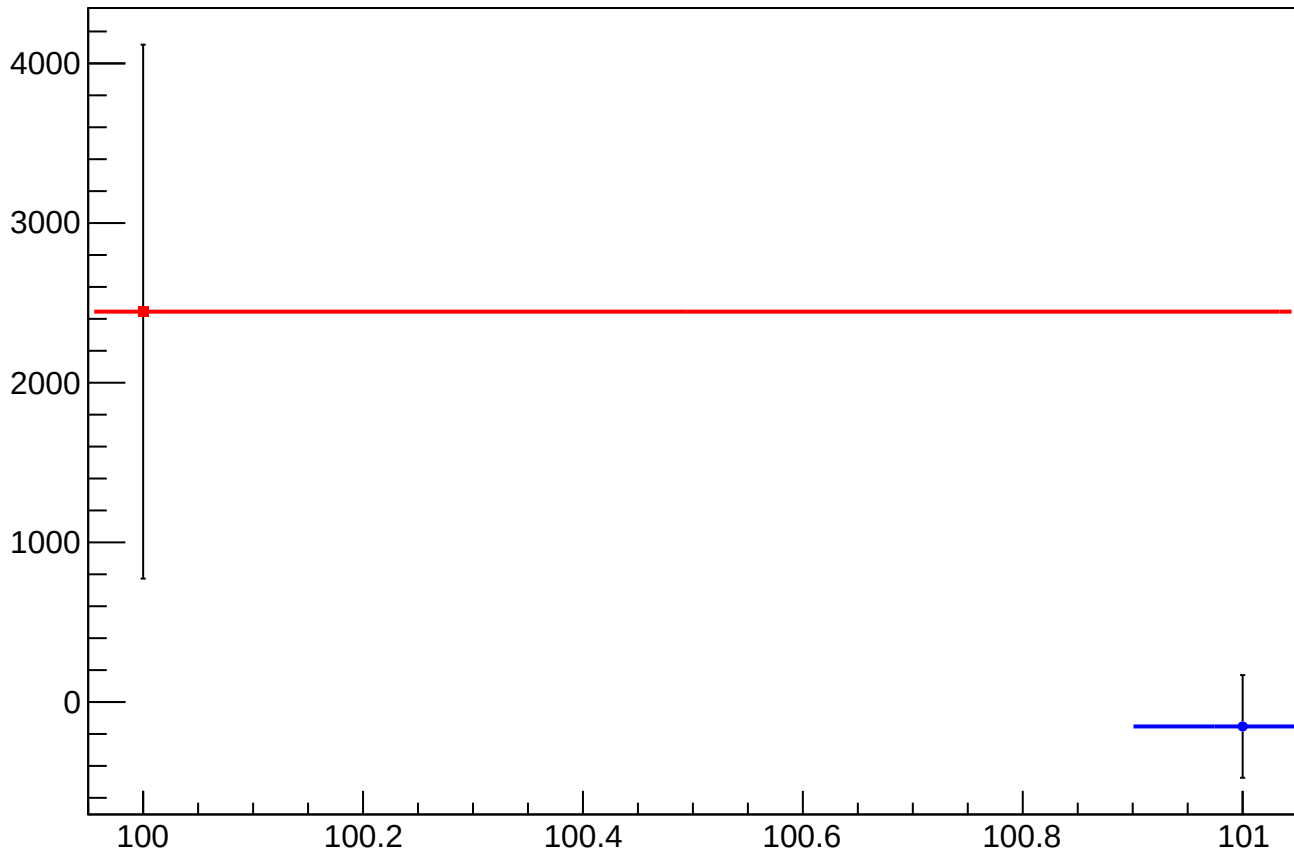
Right: 2011.469 $\pm$ 1.671  $\chi^2$ /NDF: 3401.0/1

In: 1984.186 $\pm$ 1.736  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2011.469 $\pm$ 1.671  $\chi^2$ /NDF: 3401.0/1

# dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: -152.843+/-321.656  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2445.229+/-1672.104  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

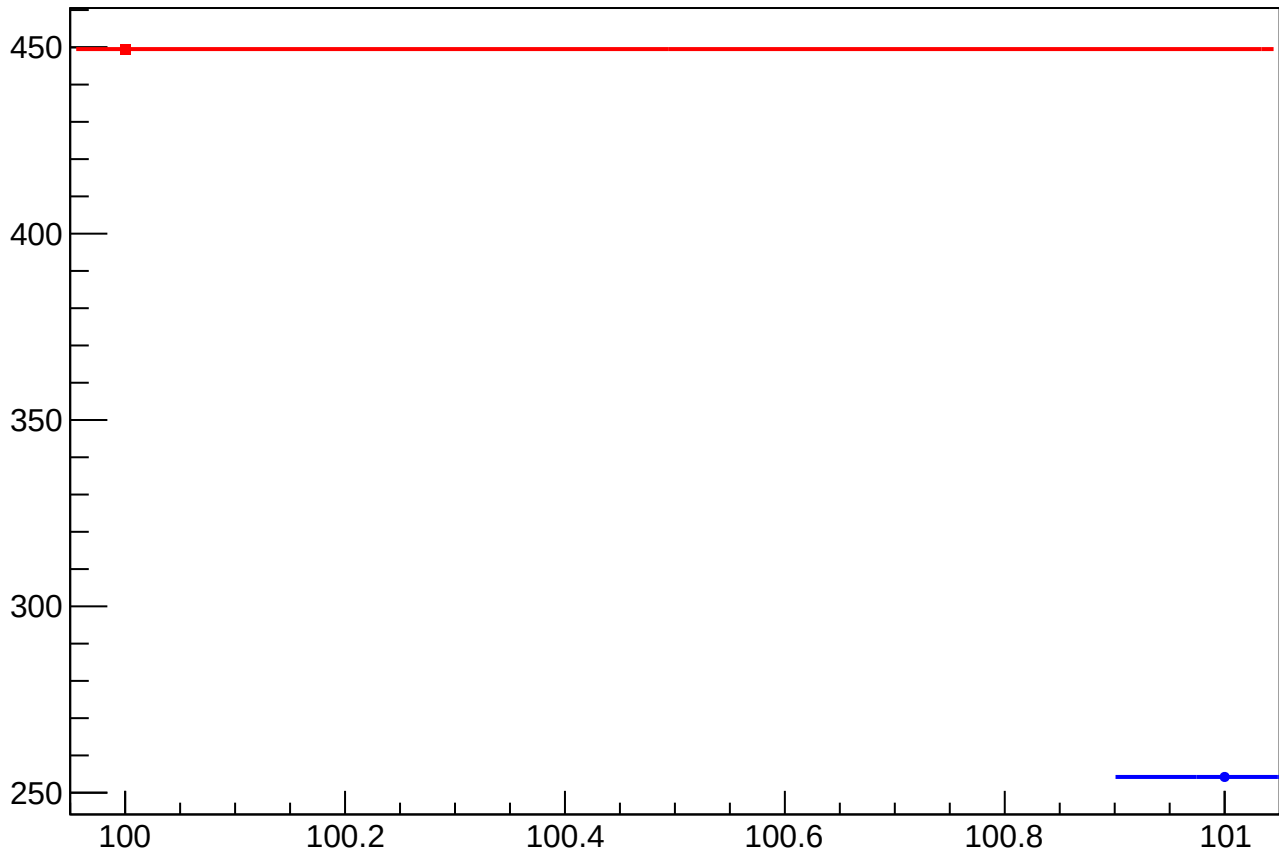
Right: -60.133+/-315.865  $\chi^2/\text{NDF}$ : 2.3/1

In: -152.843+/-321.656  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -60.133+/-315.865  $\chi^2/\text{NDF}$ : 2.3/1

# dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 254.225+/-0.227  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 449.527+/-1.182  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 261.195+/-0.223  $\chi^2/\text{NDF}$ : 26310.7/1

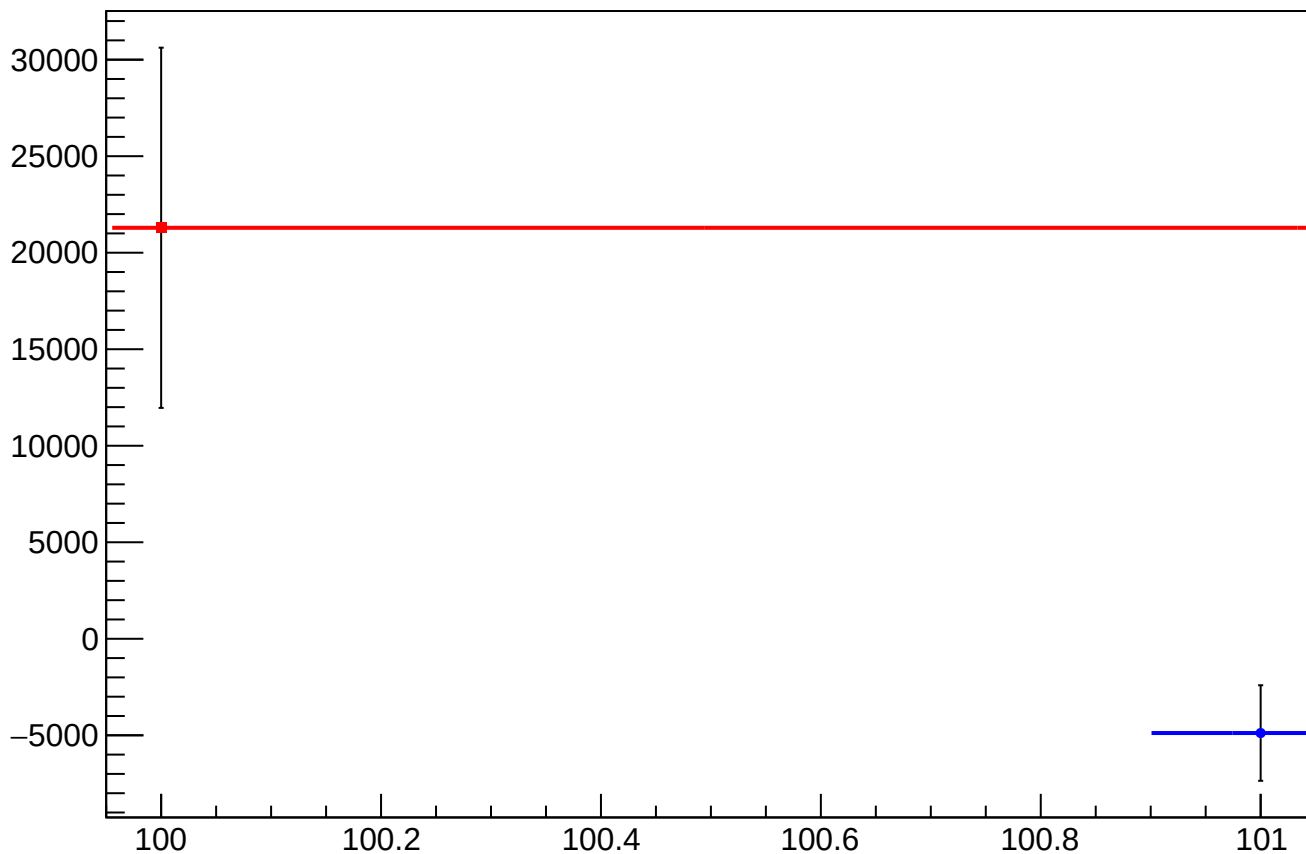
In: 254.225+/-0.227  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 261.195+/-0.223  $\chi^2/\text{NDF}$ : 26310.7/1



asym\_sam4\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -4882.570+/-2474.582  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 21291.061+/-9330.740  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

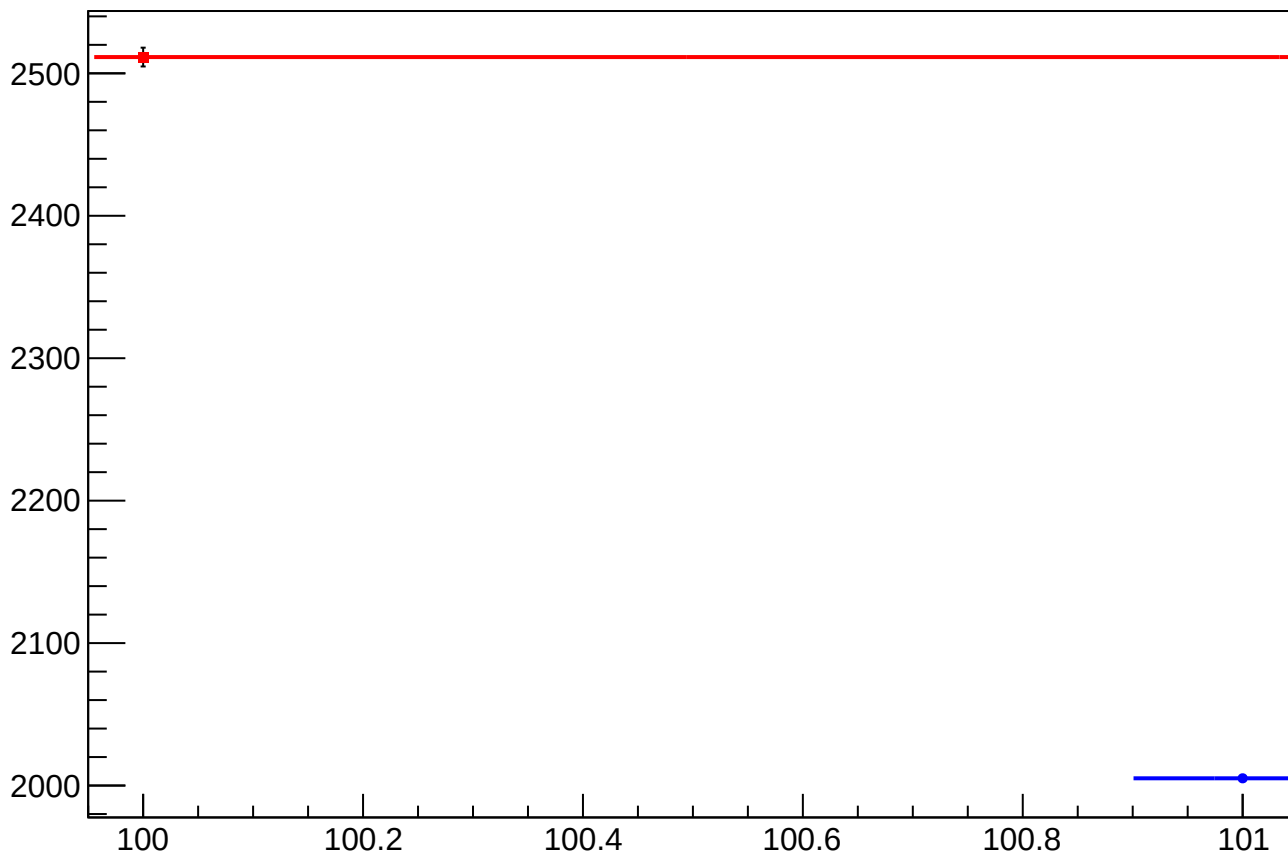
Right: -3162.620+/-2391.894  $\chi^2/\text{NDF}$ : 7.4/1

In: -4882.570+/-2474.582  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3162.620+/-2391.894  $\chi^2/\text{NDF}$ : 7.4/1

asym\_sam4\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2005.081+/-1.750  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2511.420+/-6.598  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

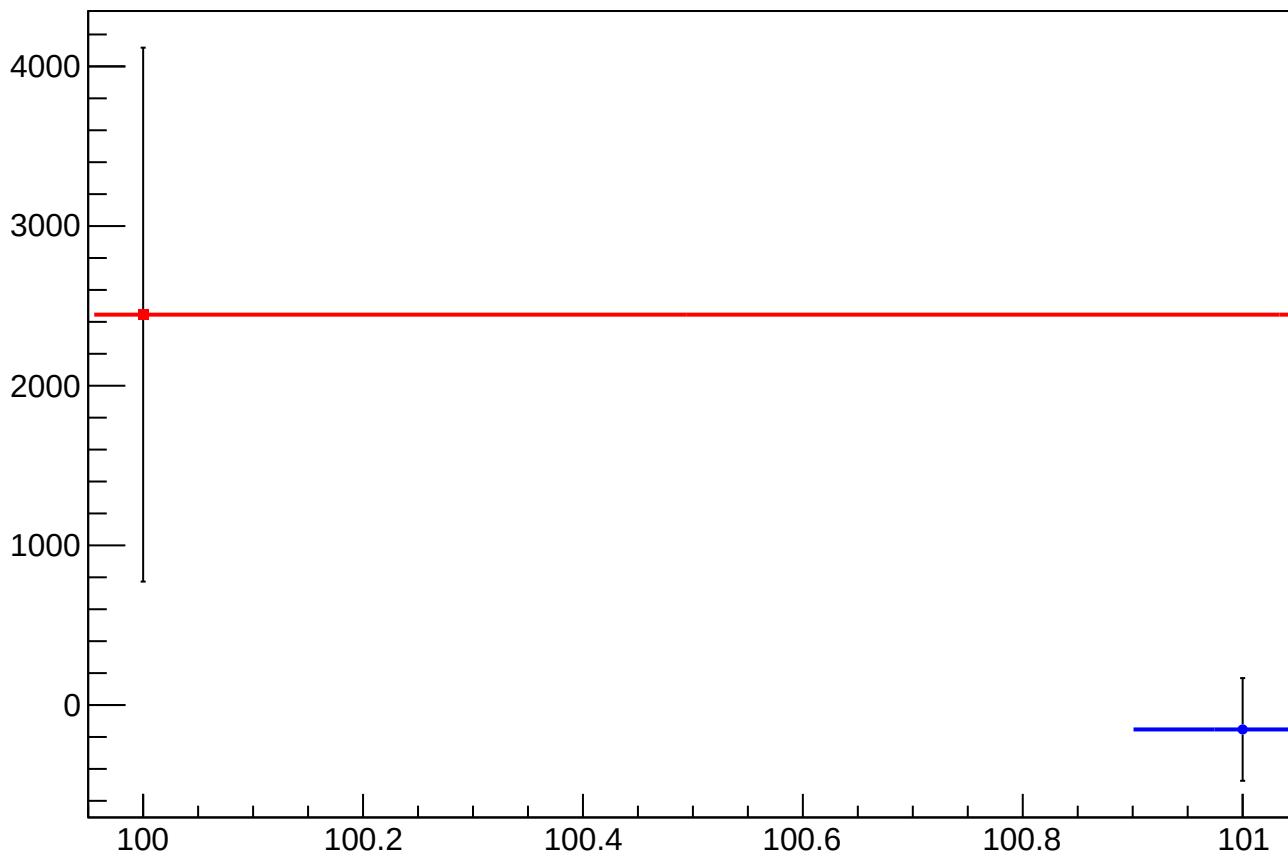
Right: 2038.354+/-1.691  $\chi^2/\text{NDF}$ : 5502.5/1

In: 2005.081+/-1.750  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2038.354+/-1.691  $\chi^2/\text{NDF}$ : 5502.5/1

eigen\_dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: -152.842+/-321.658  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2445.222+/-1672.108  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

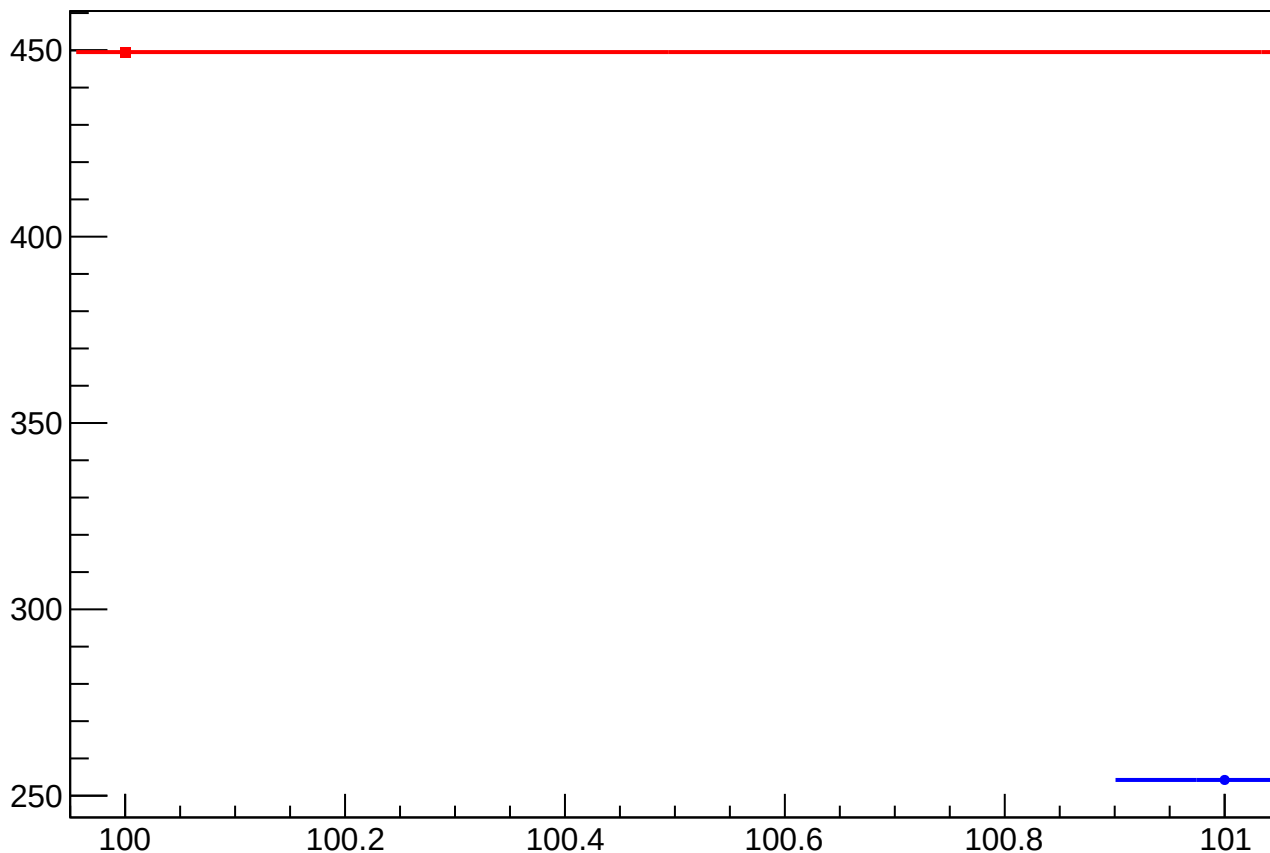
Right: -60.131+/-315.866  $\chi^2/\text{NDF}$ : 2.3/1

In: -152.842+/-321.658  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -60.131+/-315.866  $\chi^2/\text{NDF}$ : 2.3/1

# eigen\_dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 254.227+/-0.227  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 449.528+/-1.182  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

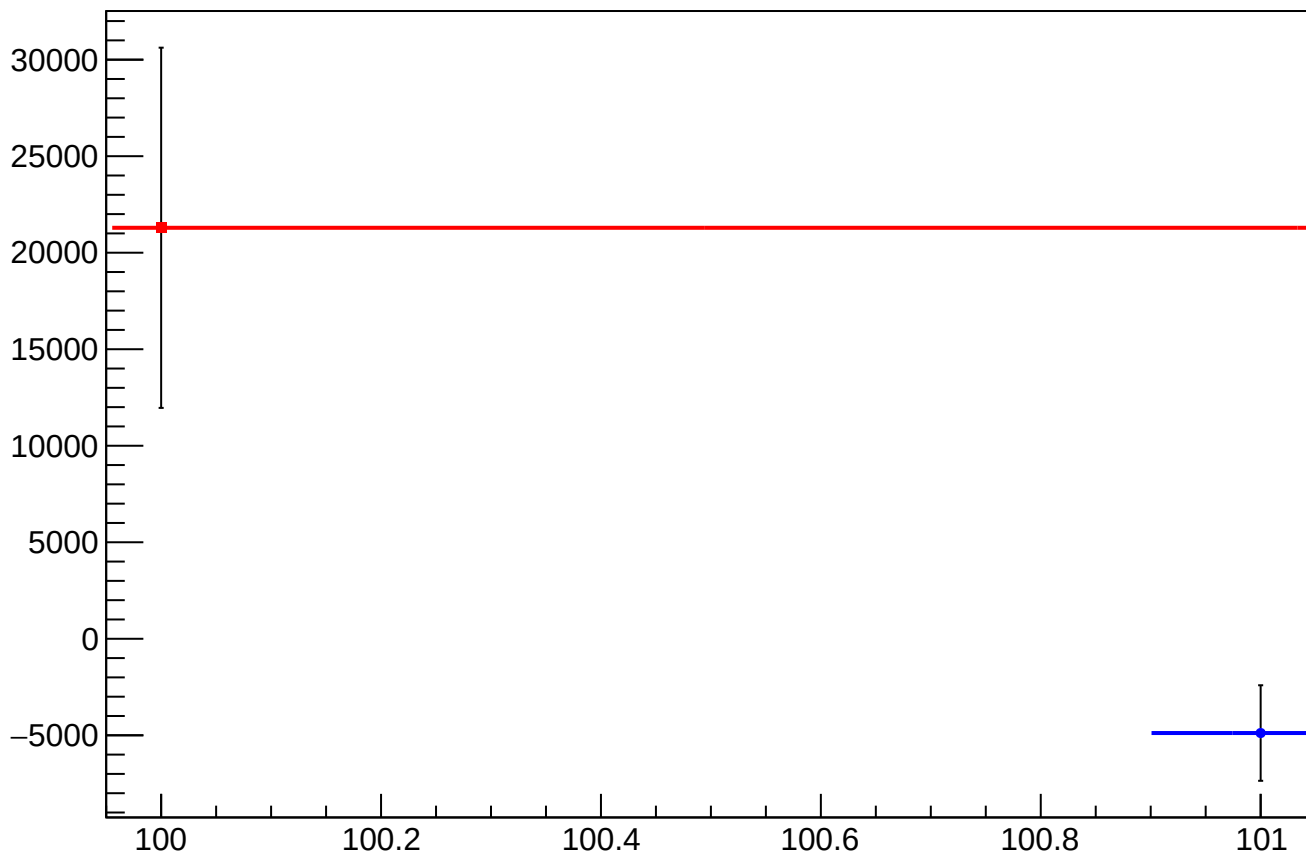
Right: 261.196+/-0.223  $\chi^2/\text{NDF}$ : 26310.5/1

In: 254.227+/-0.227  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 261.196+/-0.223  $\chi^2/\text{NDF}$ : 26310.5/1

asym\_sam4\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -4882.573+/-2474.583  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21291.052+/-9330.740  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

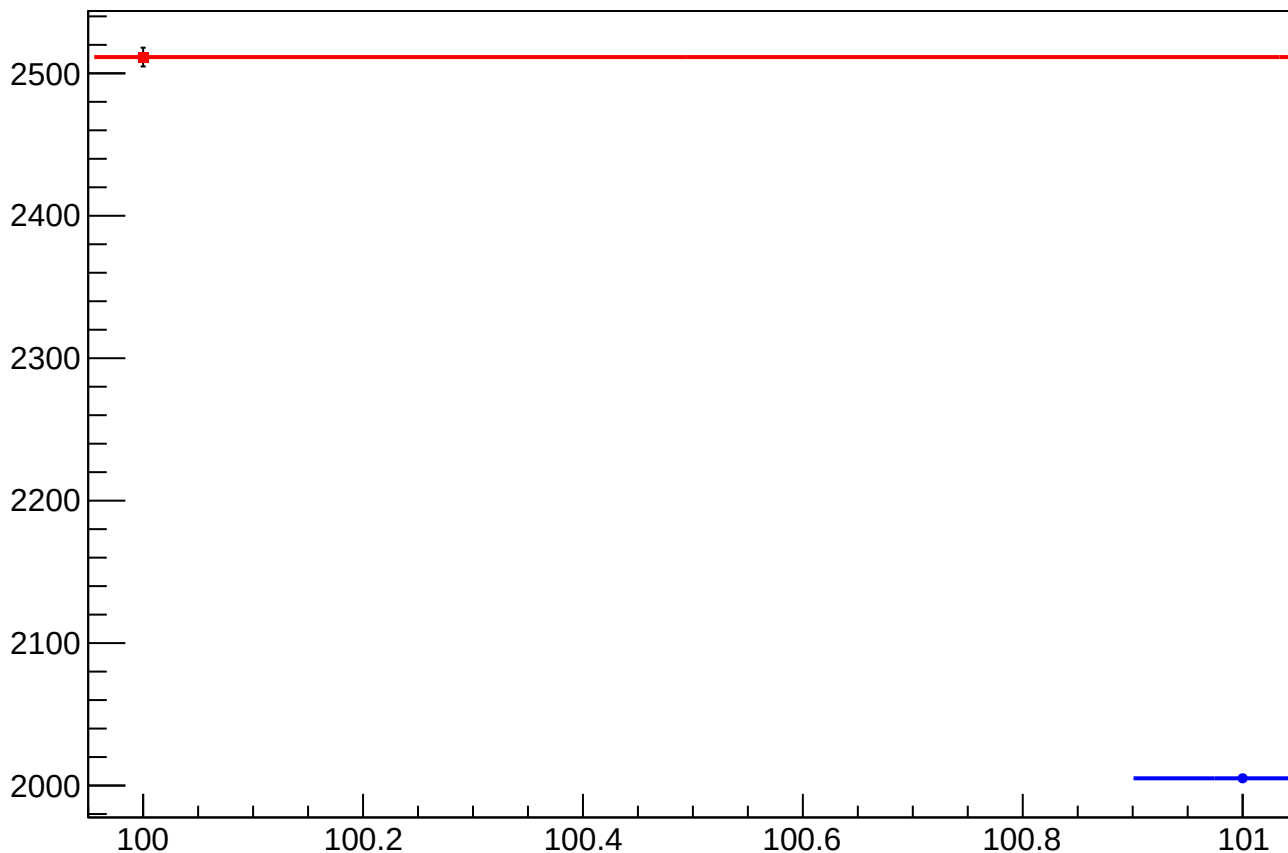
Right: -3162.623+/-2391.895  $\chi^2$ /NDF: 7.4/1

In: -4882.573+/-2474.583  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -3162.623+/-2391.895  $\chi^2$ /NDF: 7.4/1

asym\_sam4\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2005.082 $\pm$ 1.750  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2511.420 $\pm$ 6.598  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

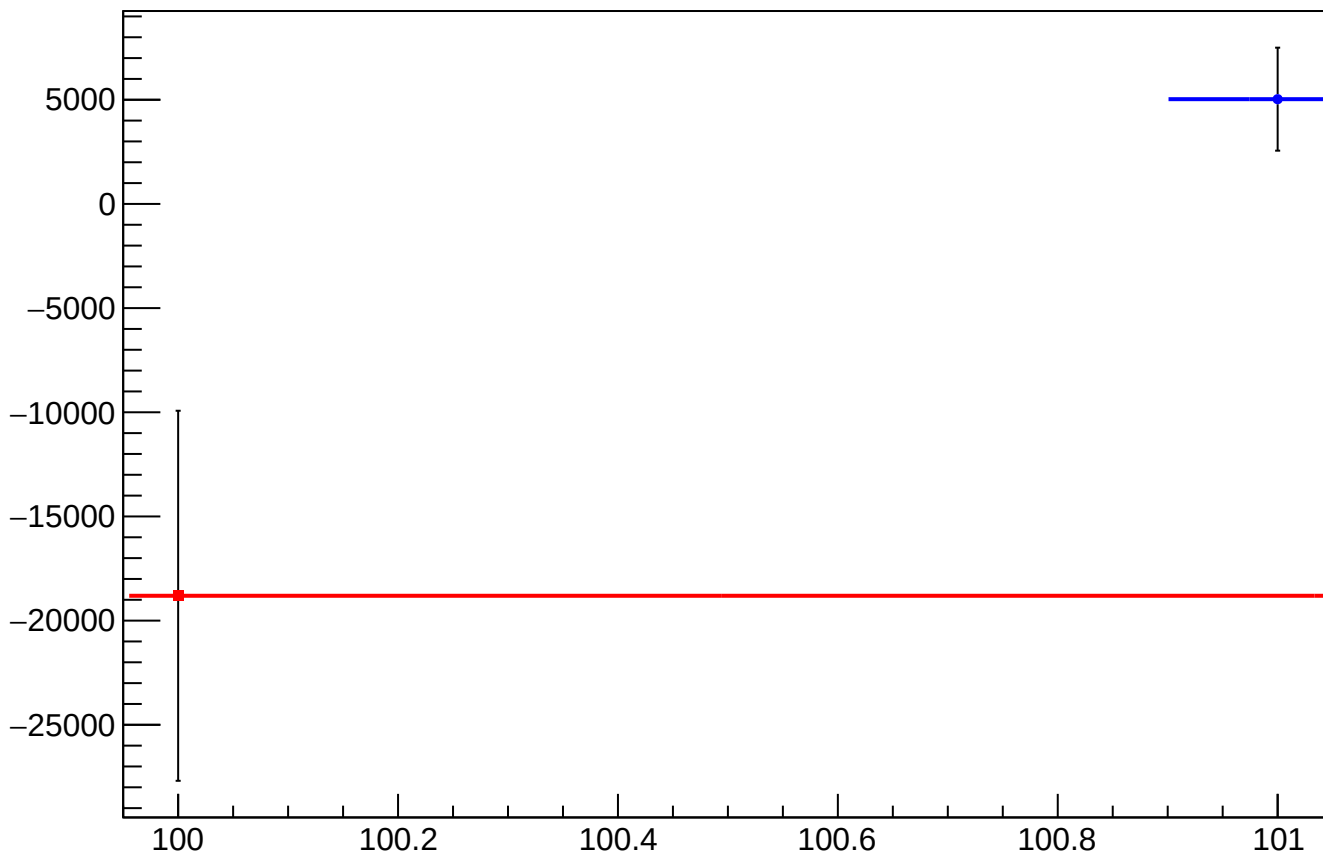
Right: 2038.355 $\pm$ 1.691  $\chi^2$ /NDF: 5502.5/1

In: 2005.082 $\pm$ 1.750  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2038.355 $\pm$ 1.691  $\chi^2$ /NDF: 5502.5/1

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 5028.145+/-2471.799  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -18807.315+/-8880.617  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

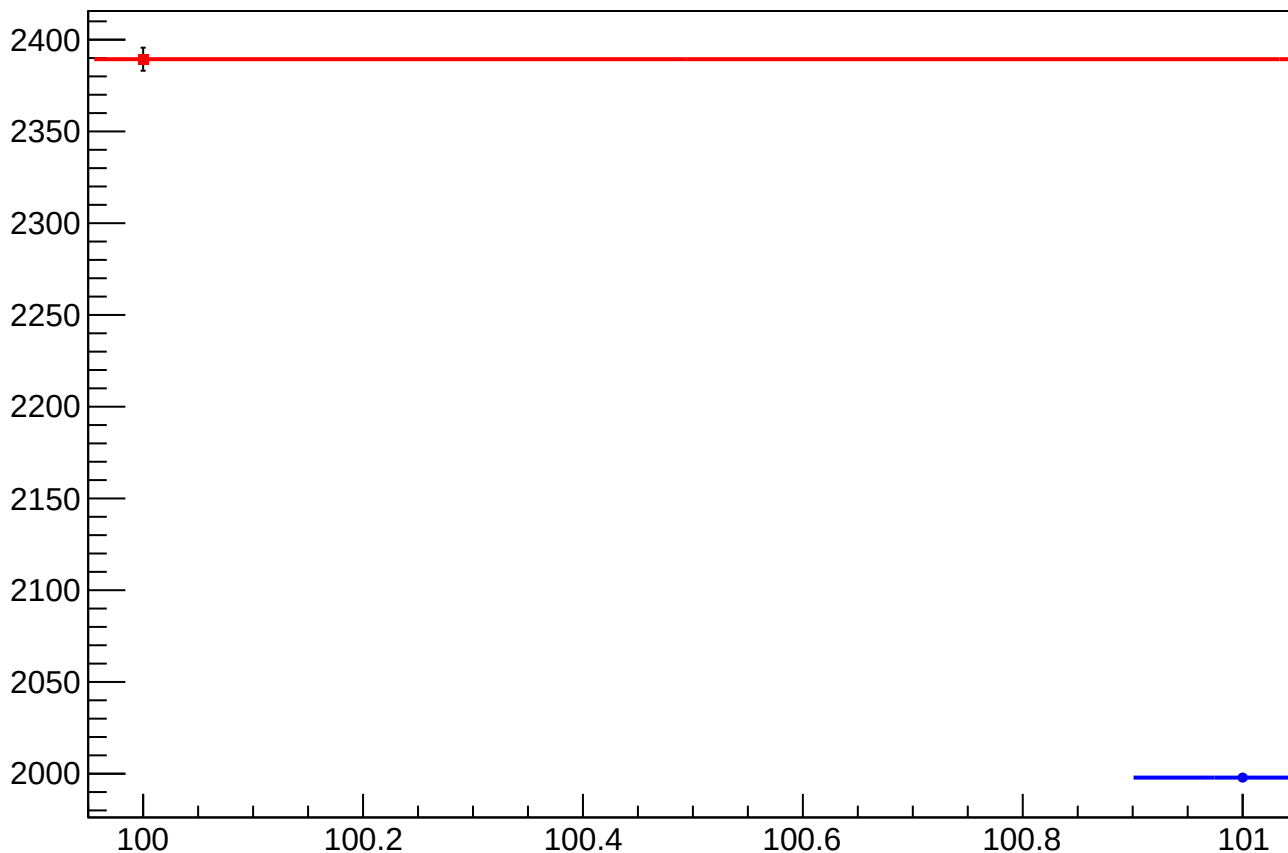
Right: 3314.355+/-2381.279  $\chi^2/\text{NDF}$ : 6.7/1

In: 5028.145+/-2471.799  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3314.355+/-2381.279  $\chi^2/\text{NDF}$ : 6.7/1

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 1997.884 $\pm$ 1.748  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2389.371 $\pm$ 6.280  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2026.033 $\pm$ 1.684  $\chi^2$ /NDF: 3607.2/1

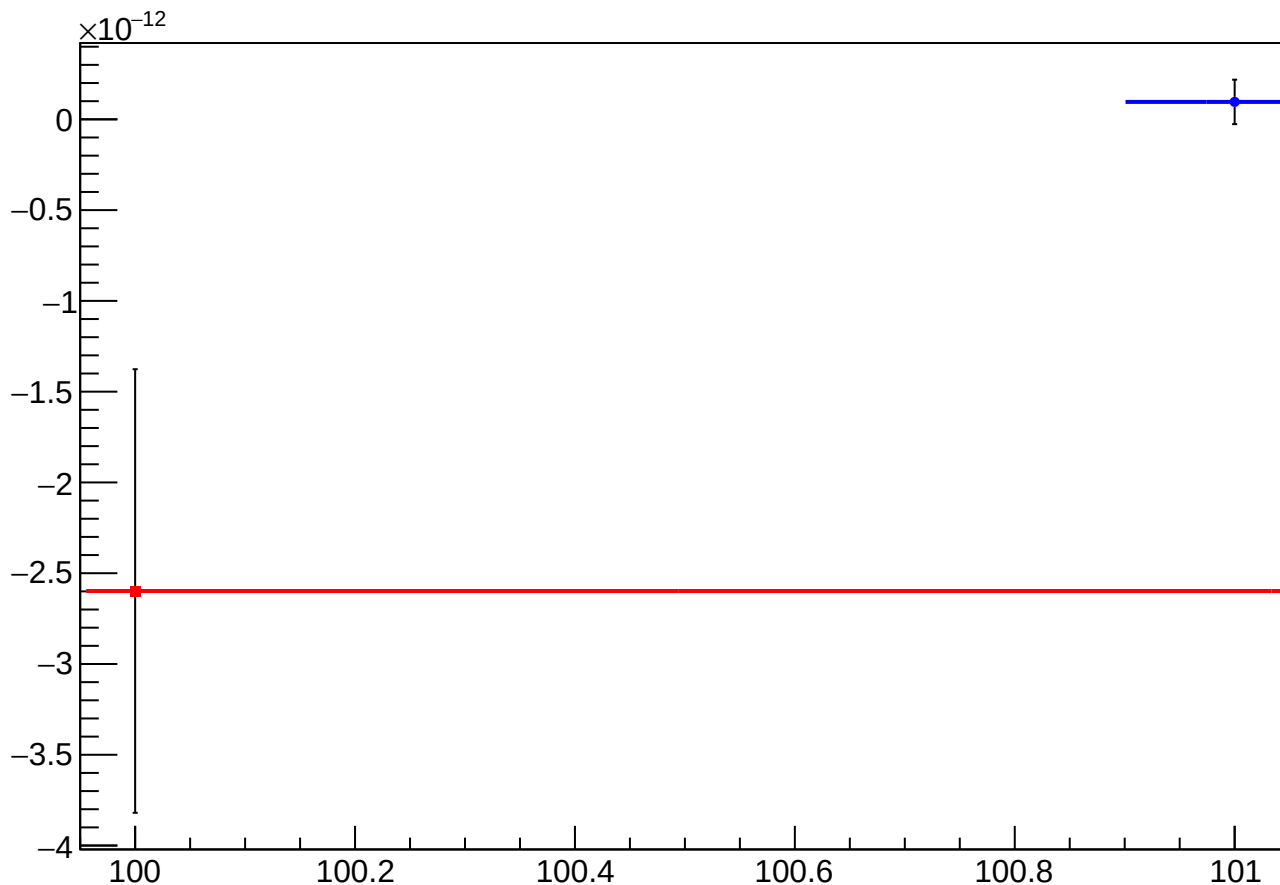
In: 1997.884 $\pm$ 1.748  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2026.033 $\pm$ 1.684  $\chi^2$ /NDF: 3607.2/1



asym\_sam4\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

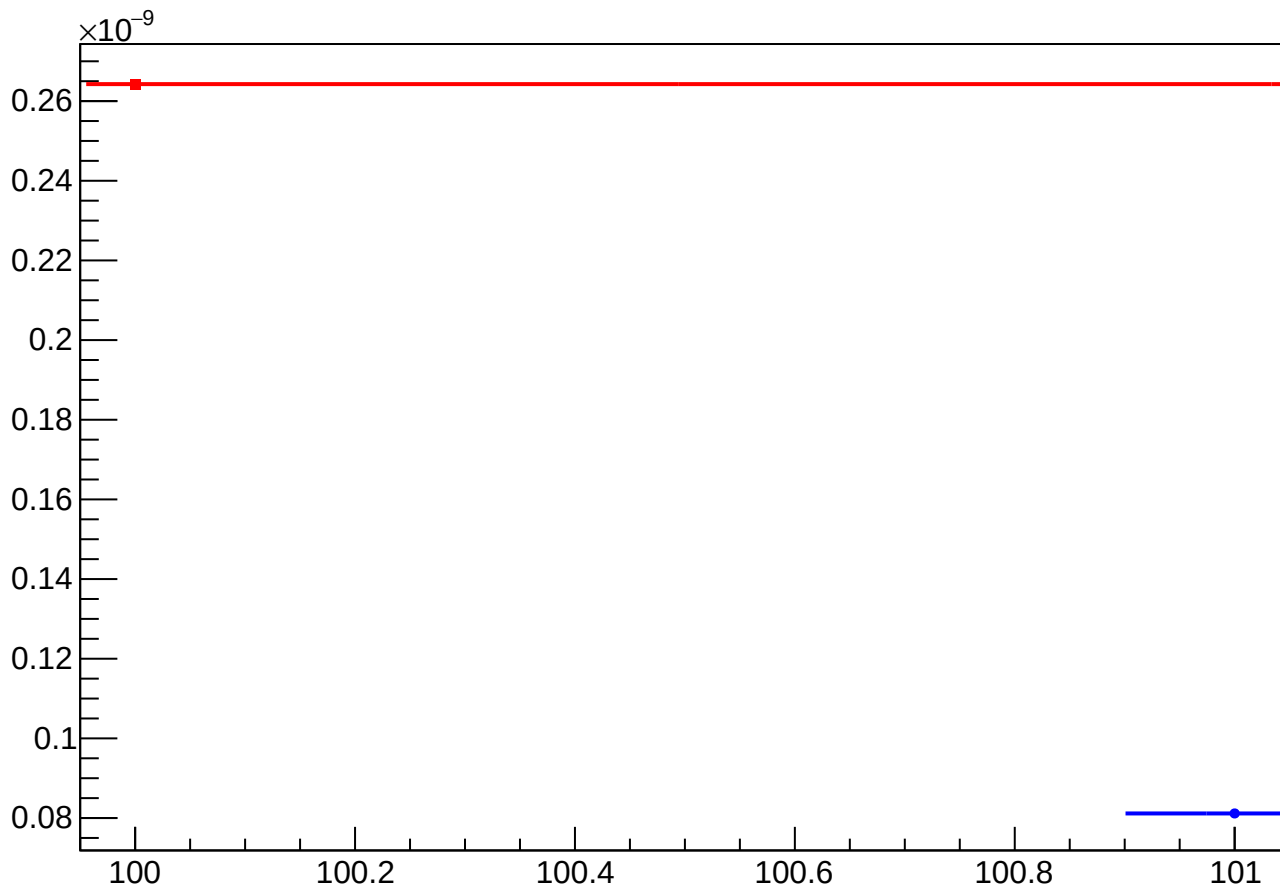
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.8/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 4.8/1

asym\_sam4\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

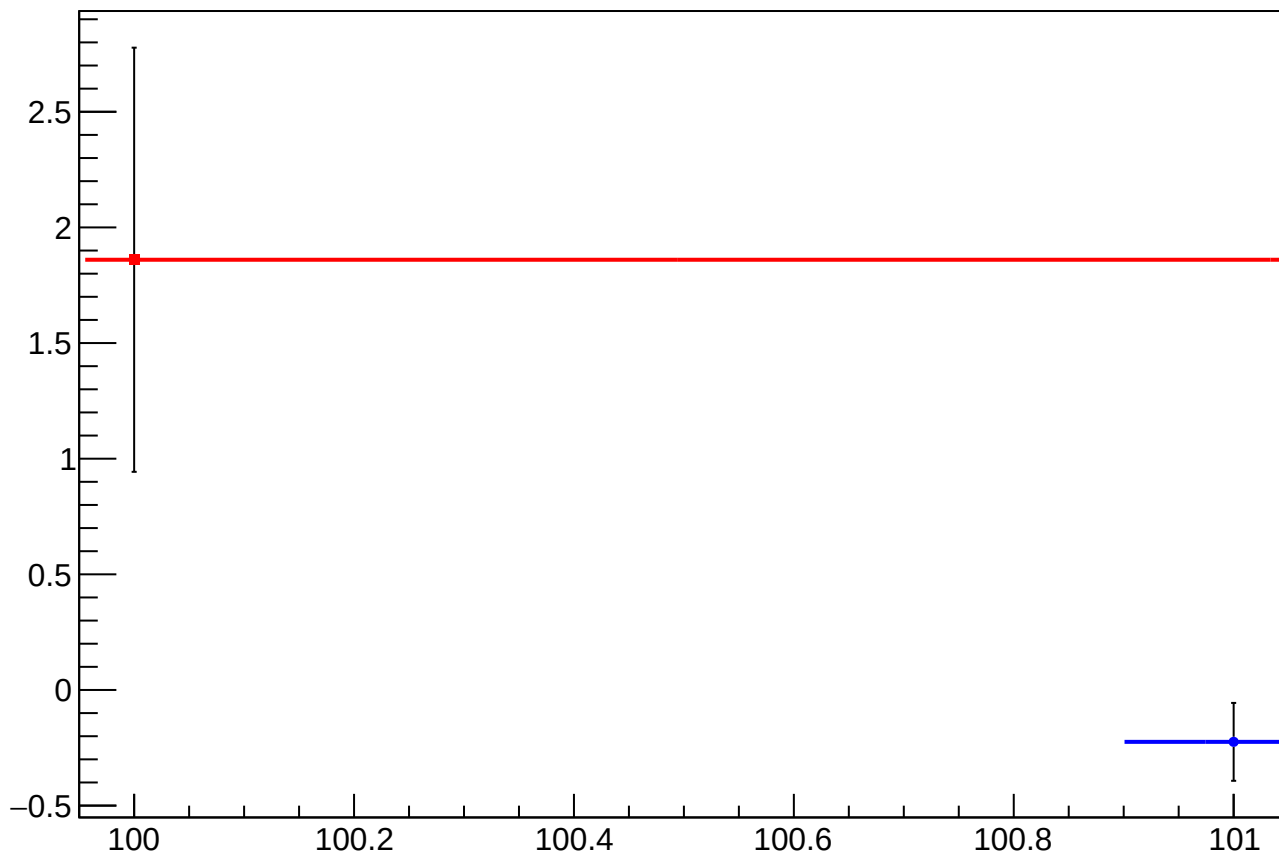
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 44488.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 44488.4/1

asym\_sam4\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.168  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1.860+/-0.917  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

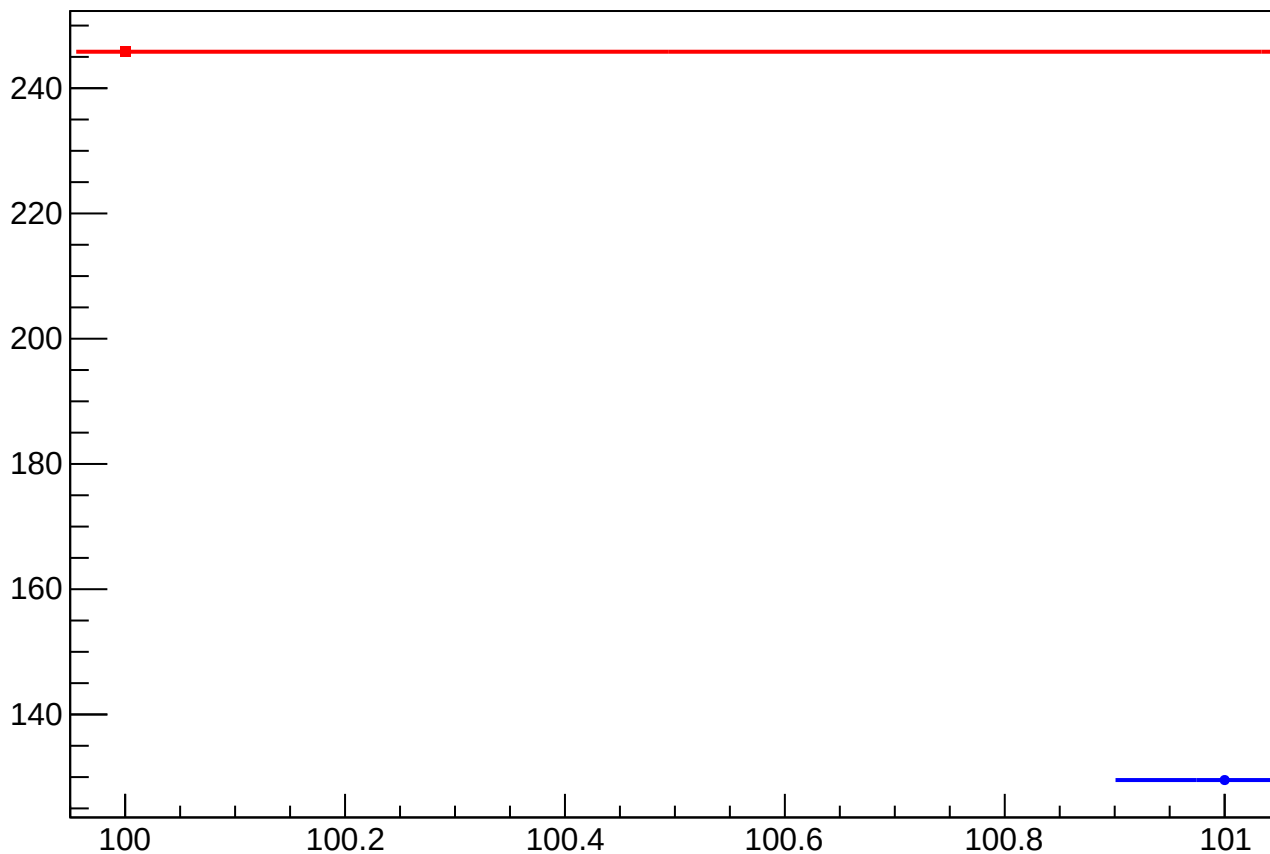
Right: -0.156+/-0.166  $\chi^2$ /NDF: 5.0/1

In: -0.224+/-0.168  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.156+/-0.166  $\chi^2$ /NDF: 5.0/1

asym\_sam4\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 129.527 $\pm$ 0.119  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 245.823 $\pm$ 0.648  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

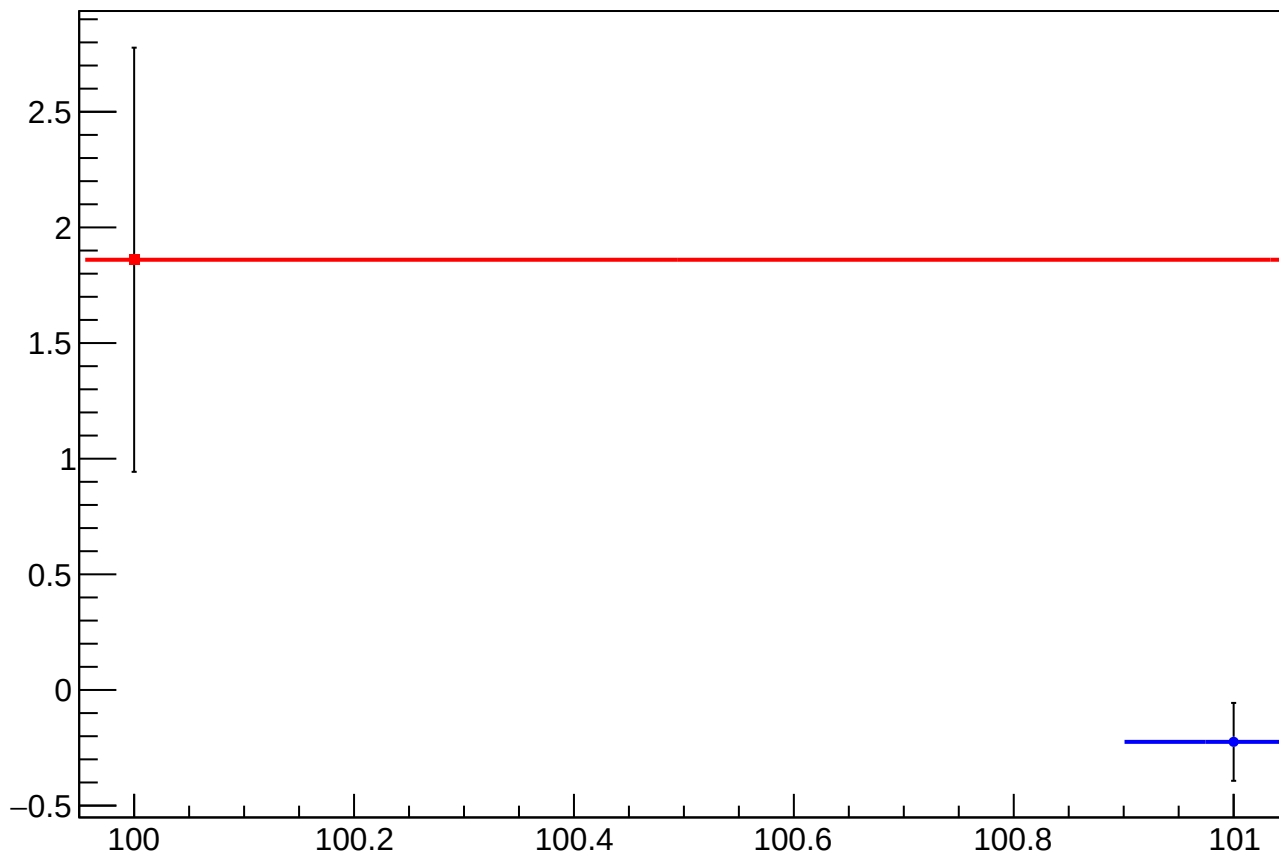
Right: 133.320 $\pm$ 0.117  $\chi^2$ /NDF: 31118.4/1

In: 129.527 $\pm$ 0.119  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.320 $\pm$ 0.117  $\chi^2$ /NDF: 31118.4/1

asym\_sam4\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.224+/-0.168  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.860+/-0.917  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

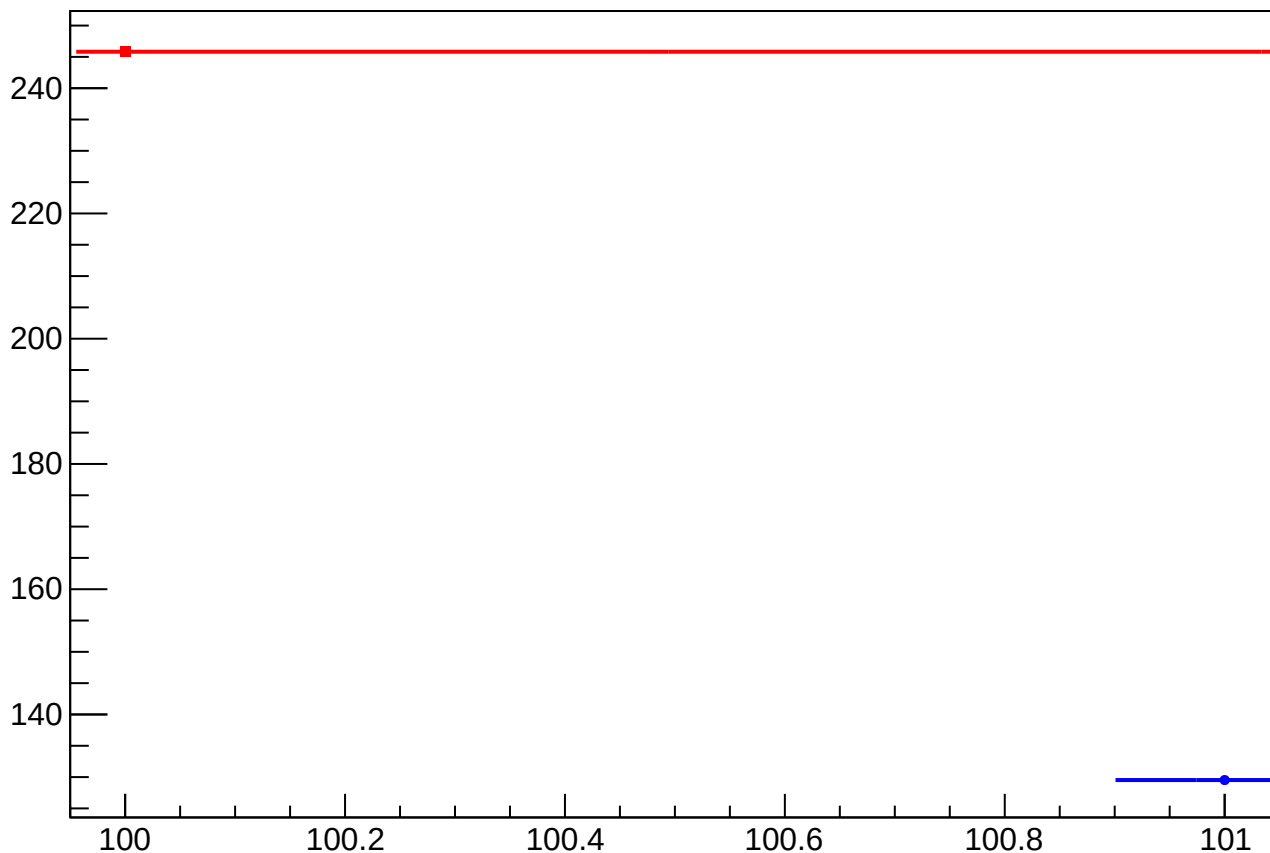
Right: -0.156+/-0.166  $\chi^2/\text{NDF}$ : 5.0/1

In: -0.224+/-0.168  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.156+/-0.166  $\chi^2/\text{NDF}$ : 5.0/1

asym\_sam4\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 129.527 $\pm$ 0.119  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 245.823 $\pm$ 0.648  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

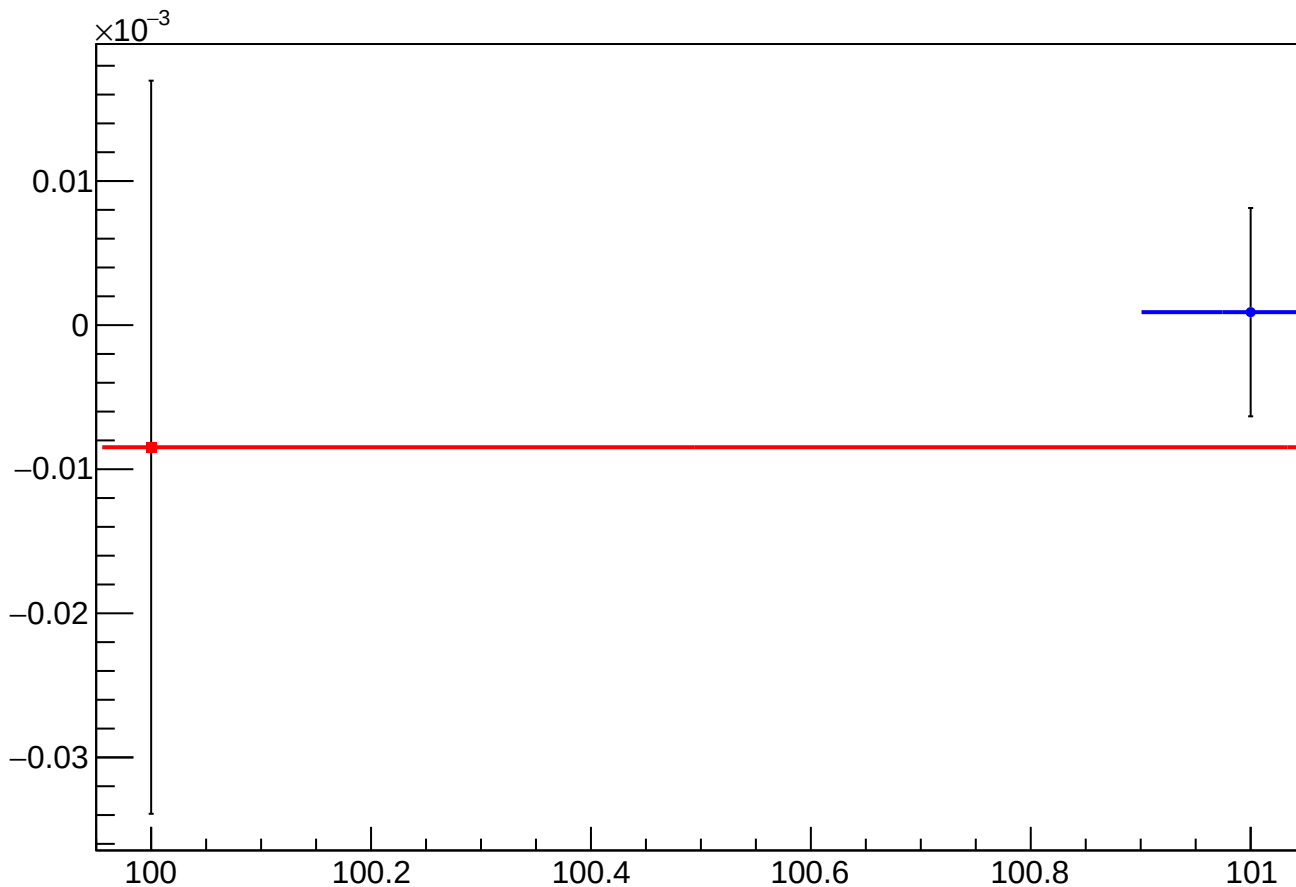
Right: 133.320 $\pm$ 0.117  $\chi^2$ /NDF: 31118.4/1

In: 129.527 $\pm$ 0.119  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.320 $\pm$ 0.117  $\chi^2$ /NDF: 31118.4/1

asym\_sam4\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

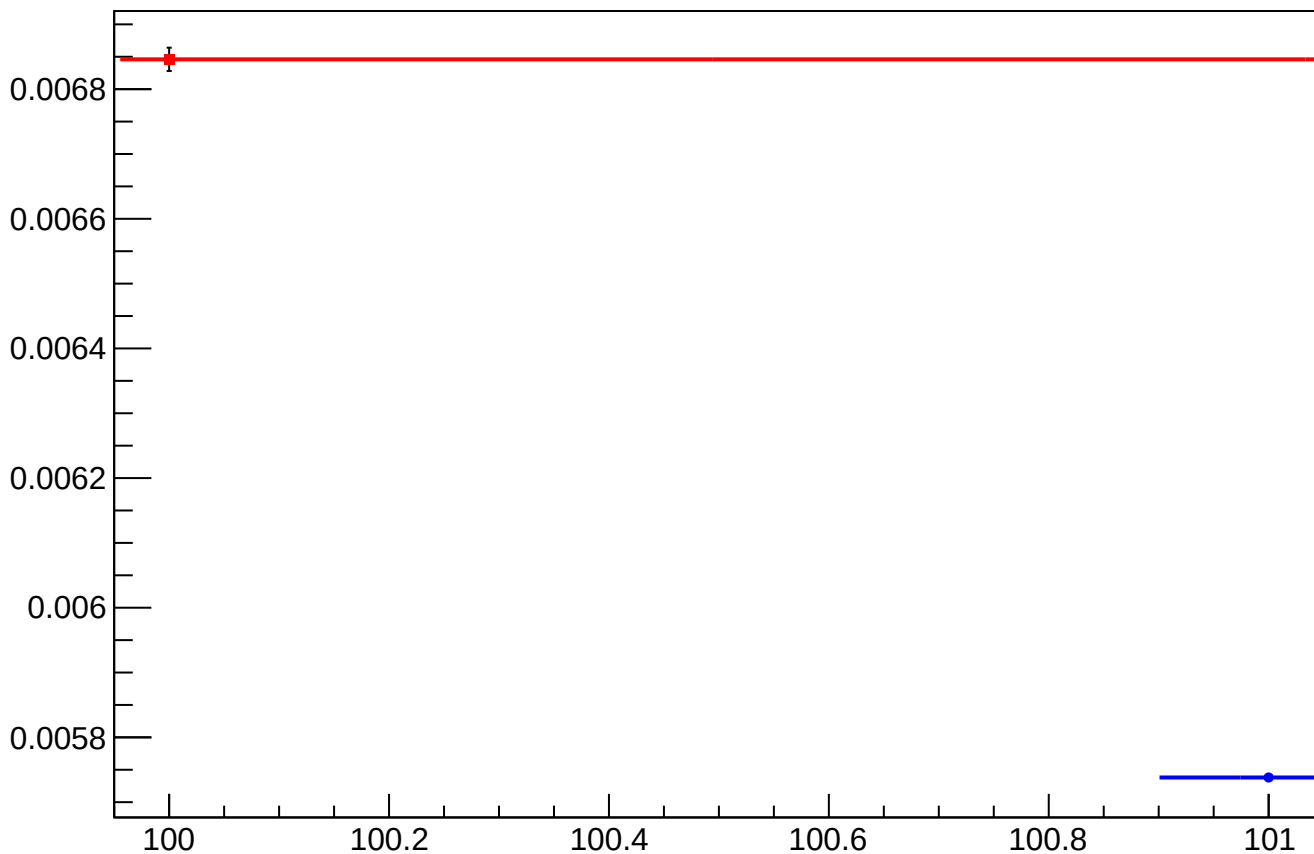
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam4\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3510.2/1

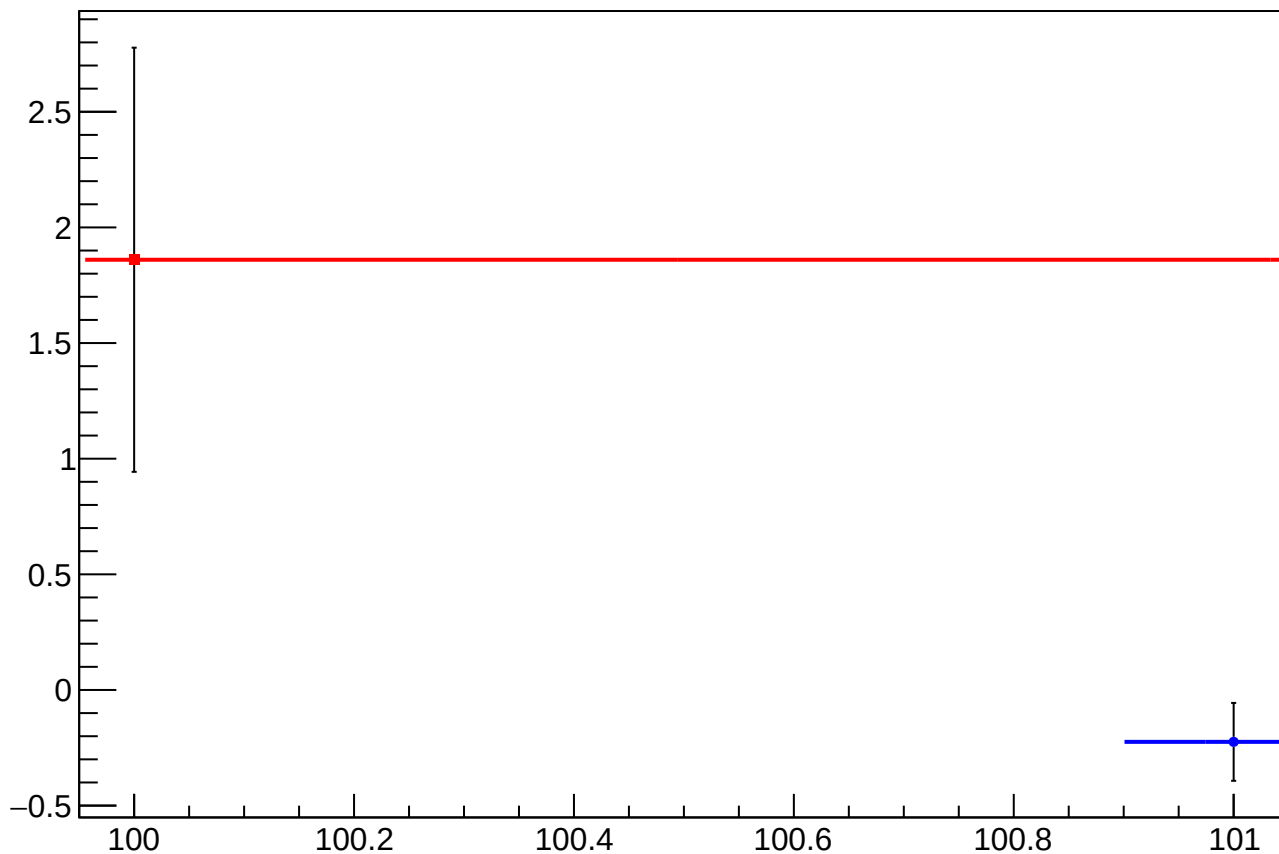
In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3510.2/1



asym\_sam4\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.224 $\pm$ 0.168  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.860 $\pm$ 0.917  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

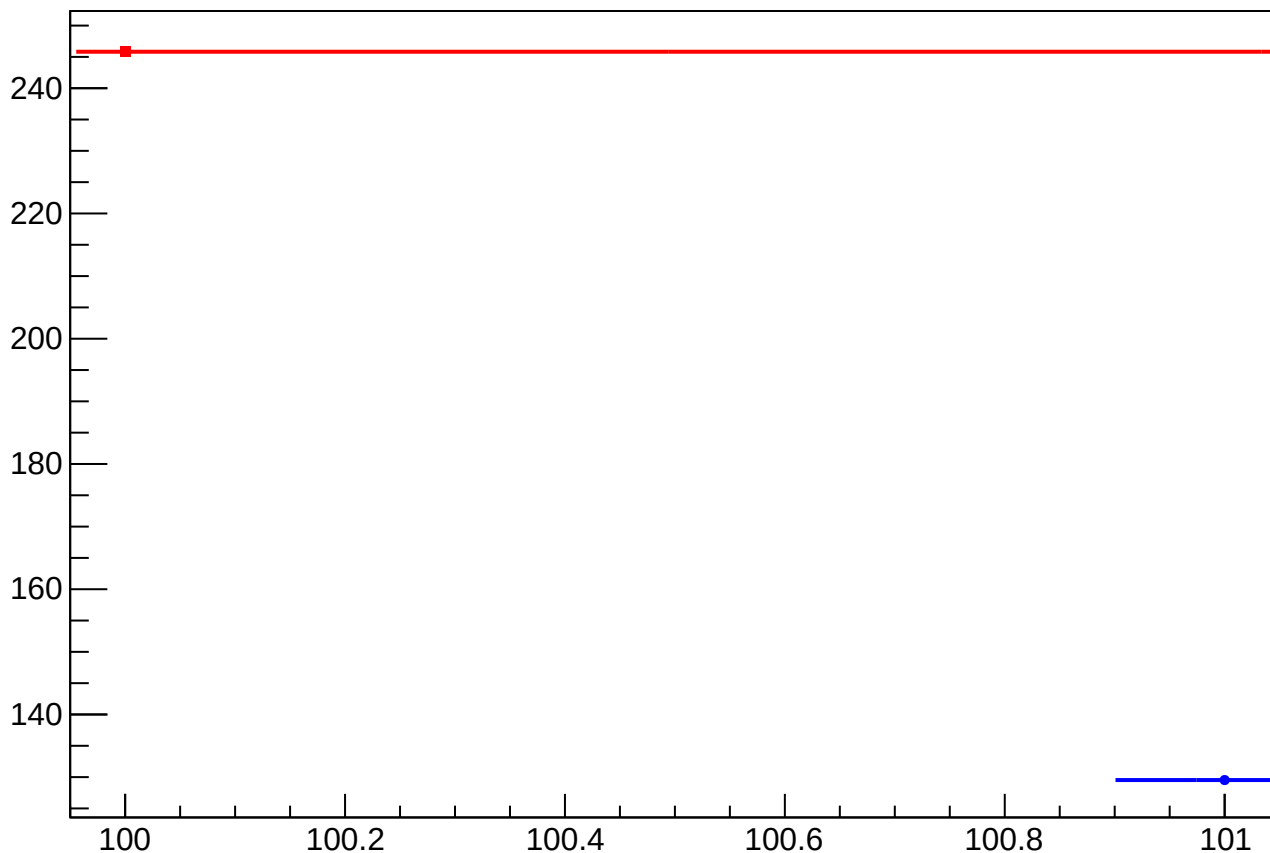
Right: -0.156 $\pm$ 0.166  $\chi^2$ /NDF: 5.0/1

In: -0.224 $\pm$ 0.168  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.156 $\pm$ 0.166  $\chi^2$ /NDF: 5.0/1

asym\_sam4\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 129.530 $\pm$ 0.119  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 245.825 $\pm$ 0.648  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

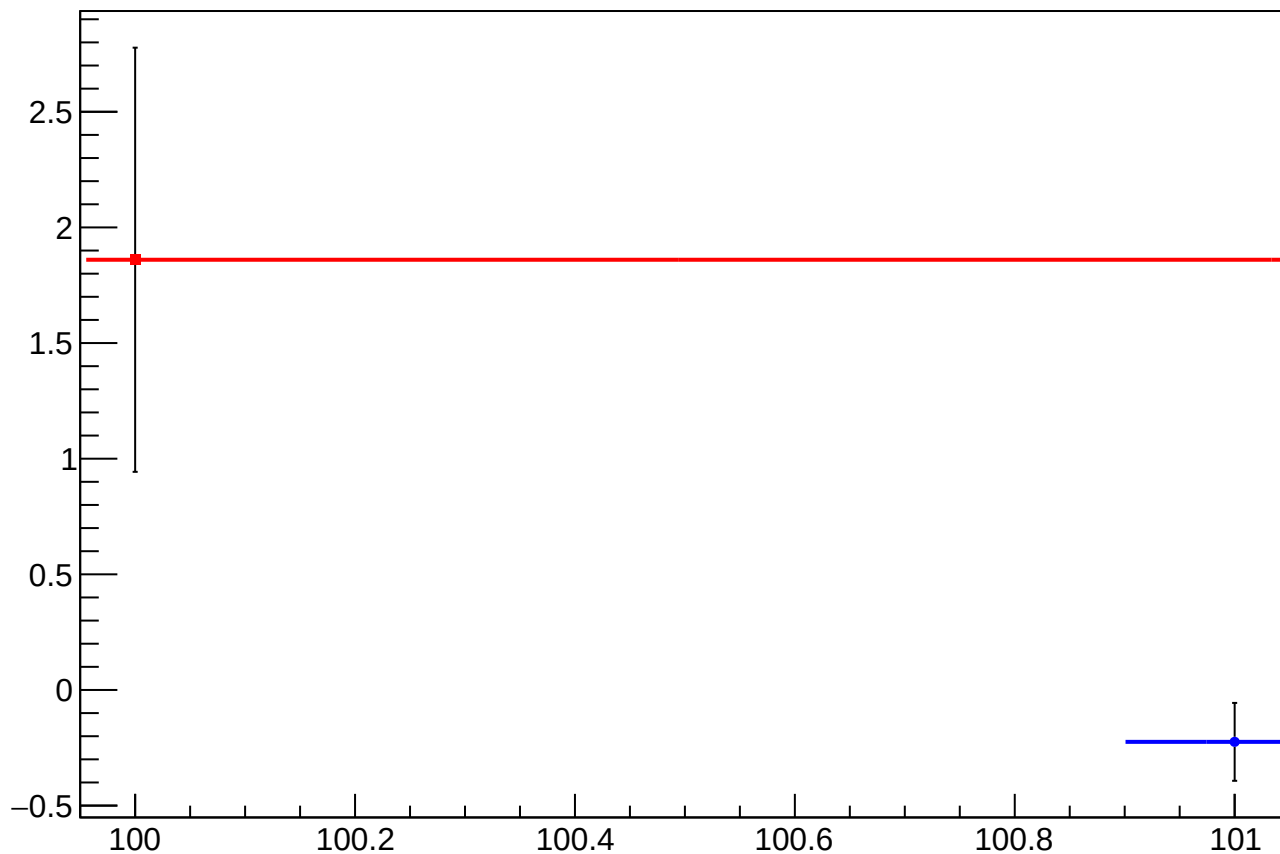
Right: 133.323 $\pm$ 0.117  $\chi^2$ /NDF: 31117.4/1

In: 129.530 $\pm$ 0.119  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 133.323 $\pm$ 0.117  $\chi^2$ /NDF: 31117.4/1

asym\_sam4\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.224 $\pm$ 0.168  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.860 $\pm$ 0.917  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

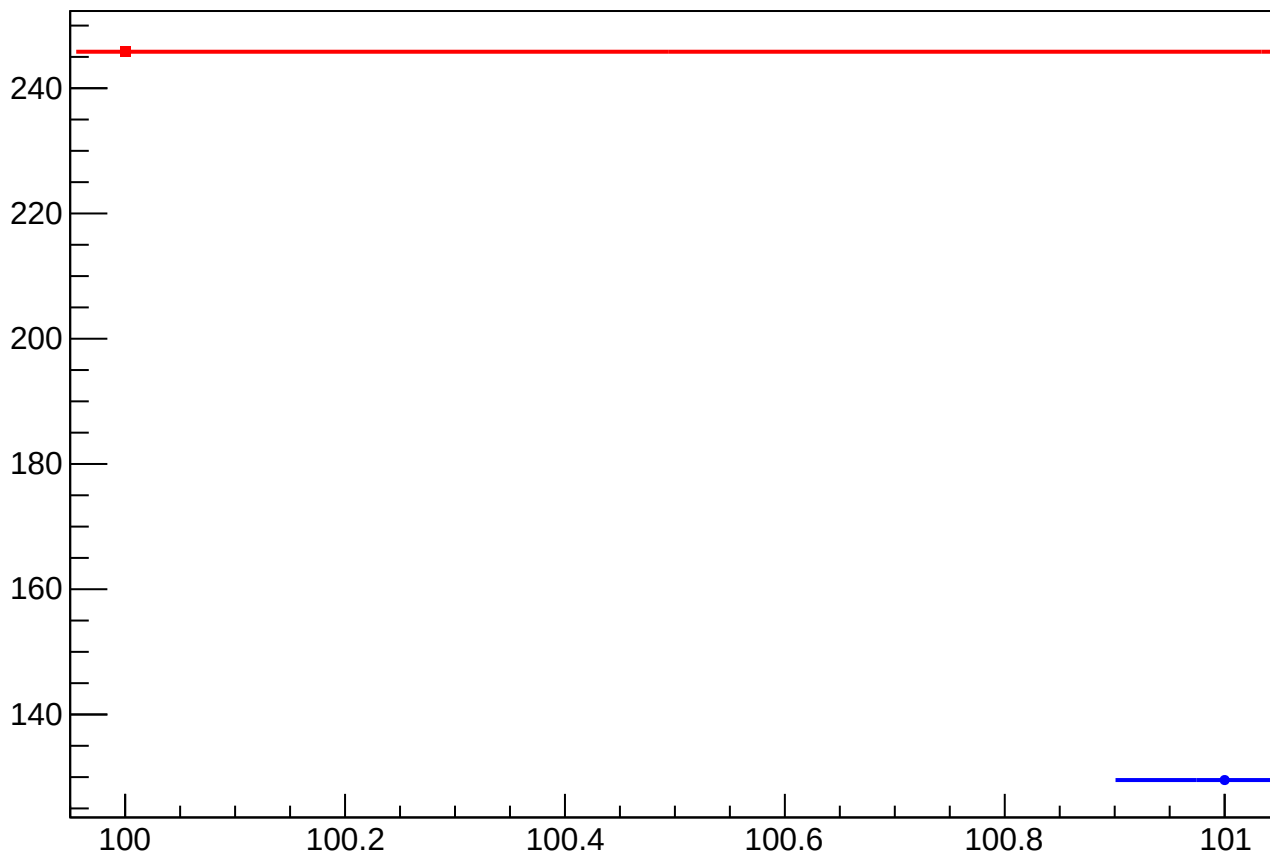
Right: -0.156 $\pm$ 0.166  $\chi^2$ /NDF: 5.0/1

In: -0.224 $\pm$ 0.168  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.156 $\pm$ 0.166  $\chi^2$ /NDF: 5.0/1

asym\_sam4\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 129.530 +/- 0.119  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 245.825 +/- 0.648  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

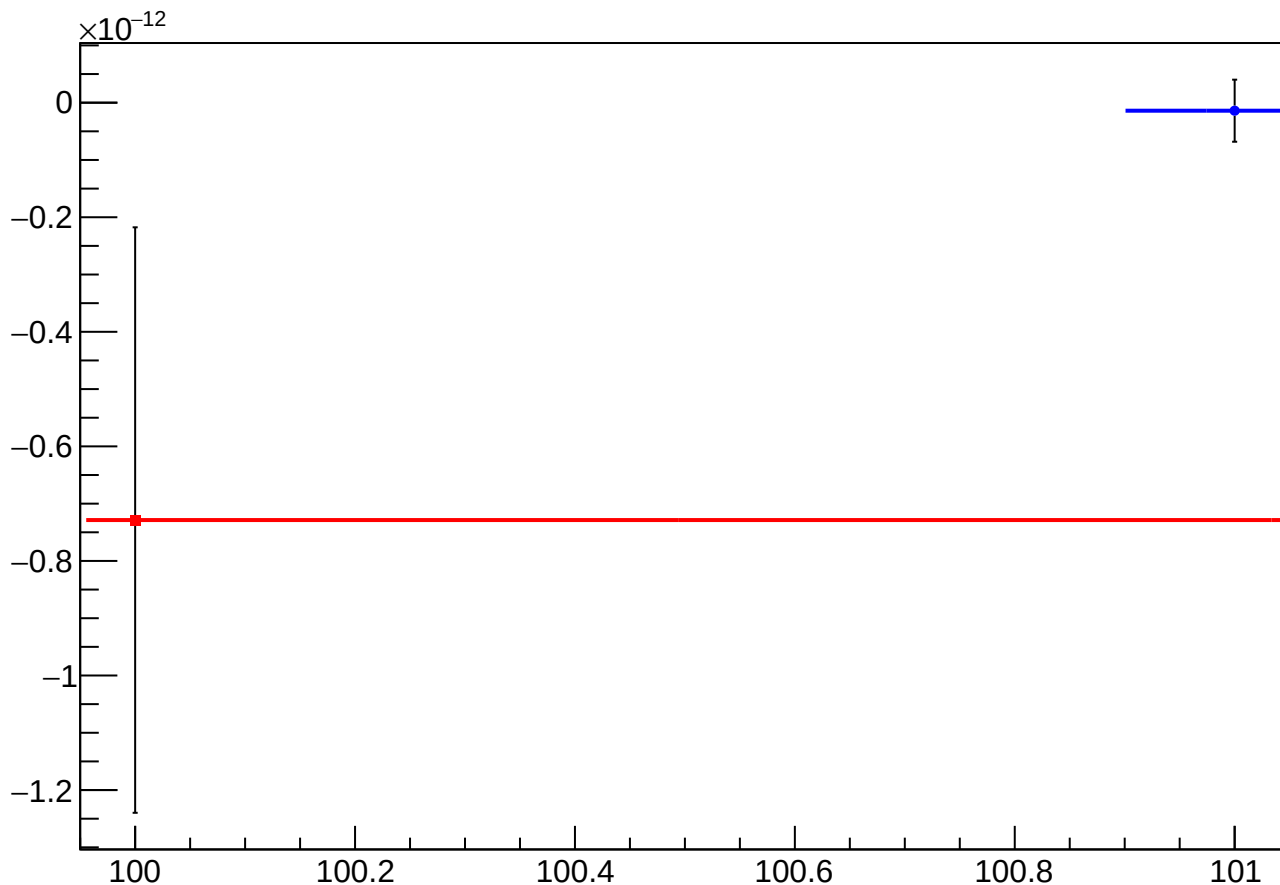
Right: 133.323 +/- 0.117  $\chi^2/\text{NDF}$ : 31117.4/1

In: 129.530 +/- 0.119  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.323 +/- 0.117  $\chi^2/\text{NDF}$ : 31117.4/1

asym\_sam4\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

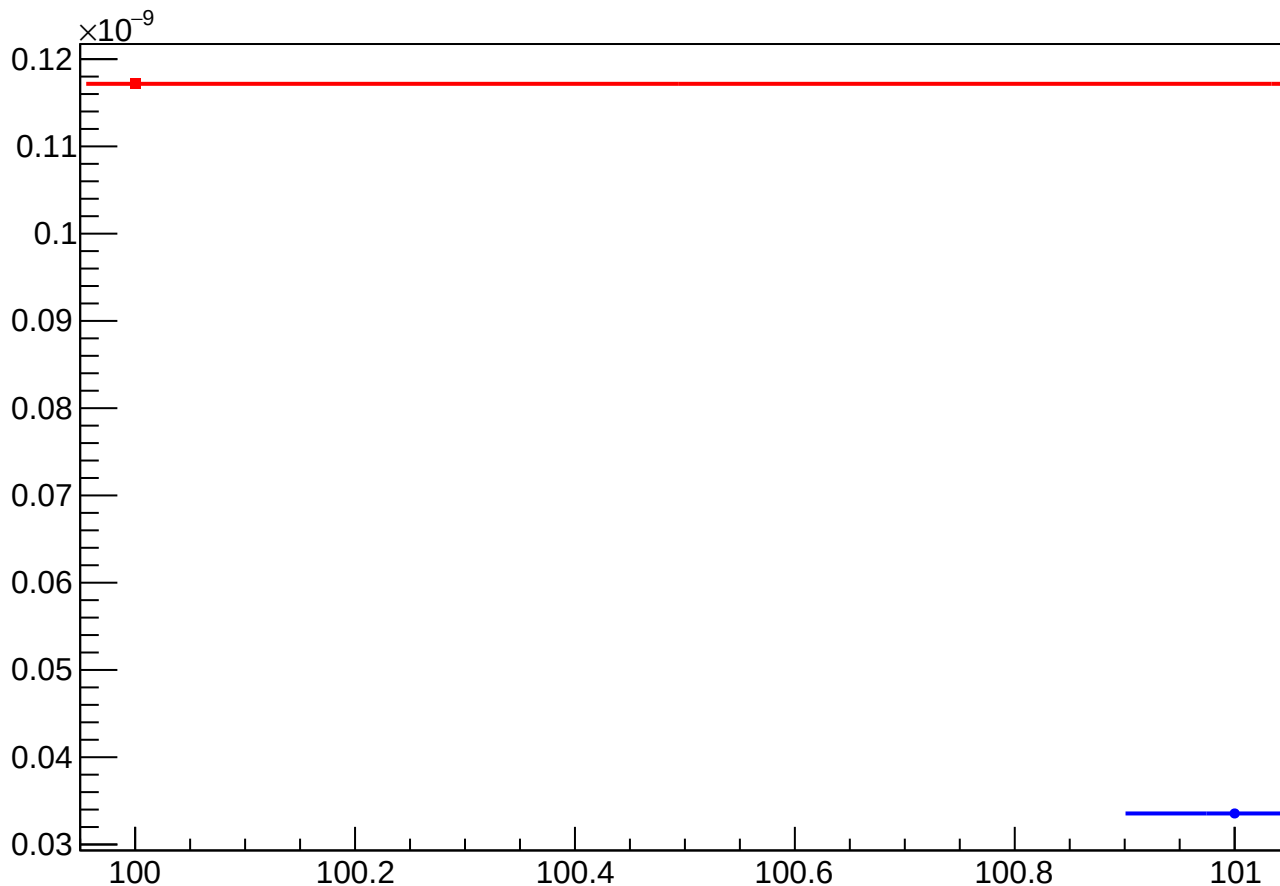
Right: -0.000+/-0.000  $\chi^2$ /NDF: 1.9/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 1.9/1

asym\_sam4\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

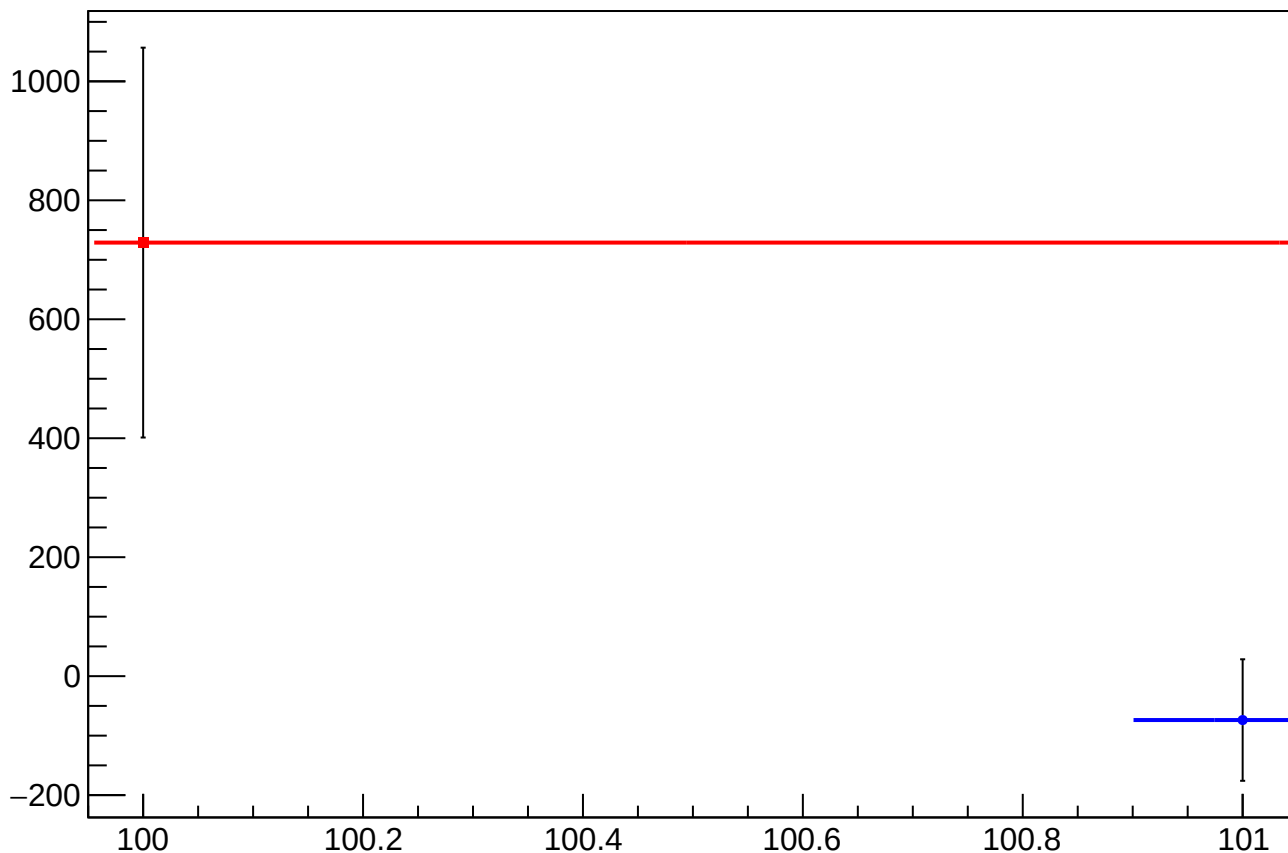
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 52941.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 52941.6/1

# reg\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: -73.771+/-102.147  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 728.910+/-327.706  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

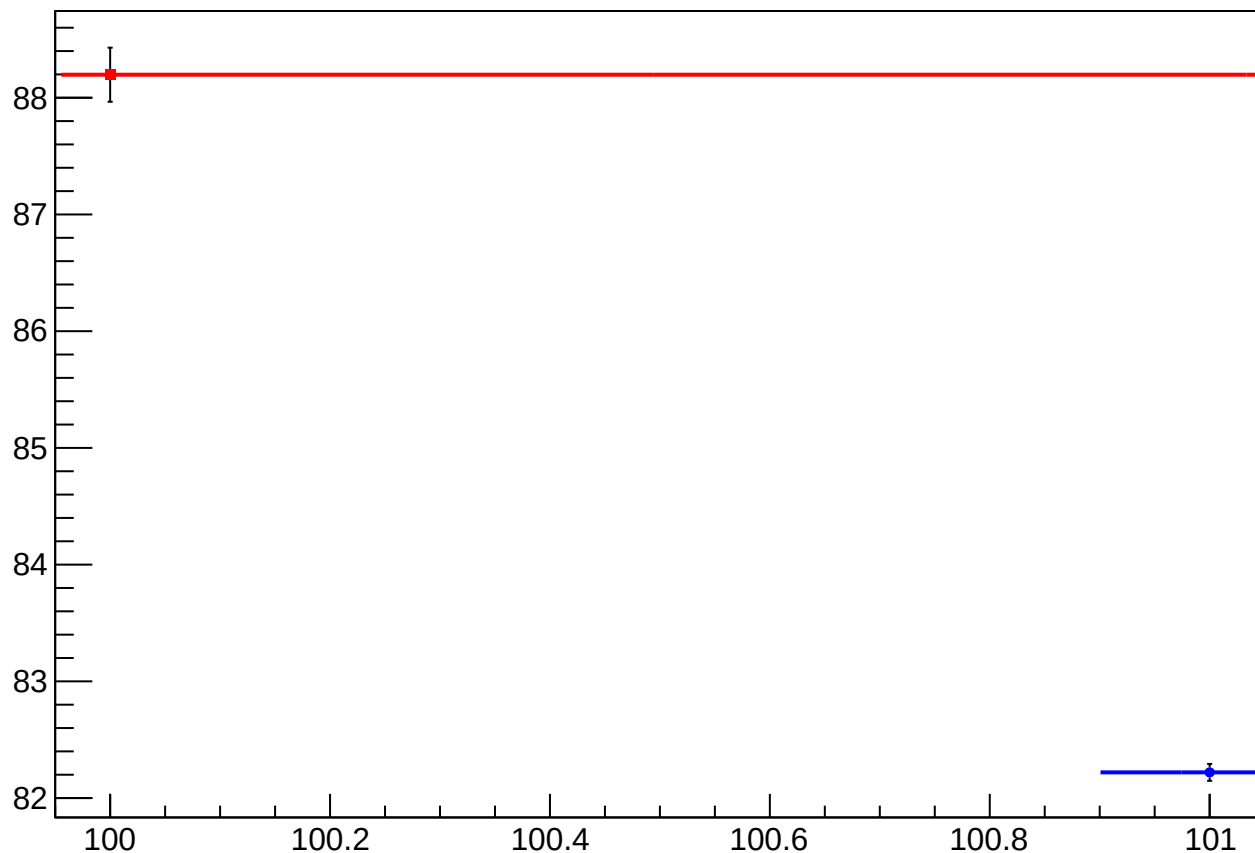
Right: -2.689+/-97.520  $\chi^2/\text{NDF}$ : 5.5/1

In: -73.771+/-102.147  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.689+/-97.520  $\chi^2/\text{NDF}$ : 5.5/1

# reg\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 82.220 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 88.197 $\pm$ 0.232  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 82.749 $\pm$ 0.069  $\chi^2$ /NDF: 606.4/1

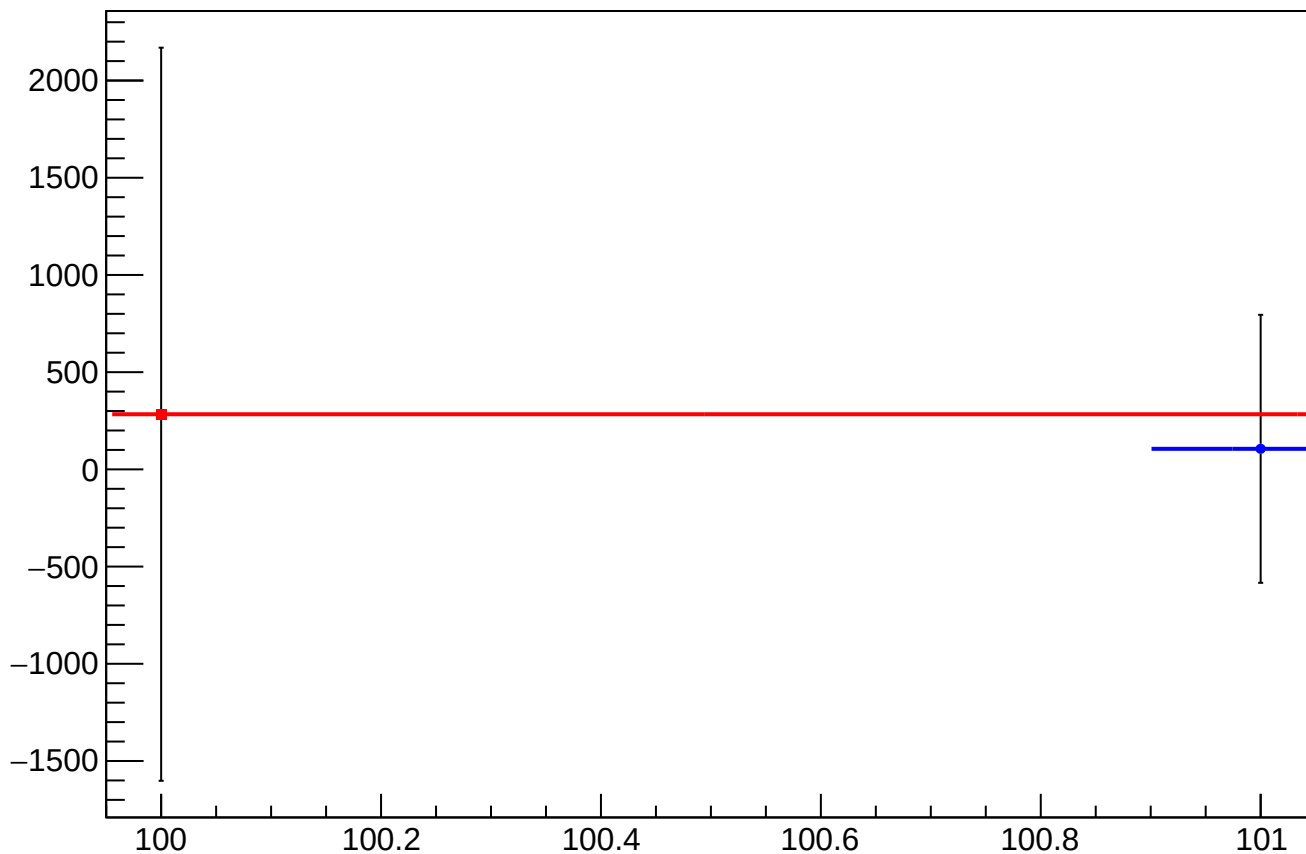
In: 82.220 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.749 $\pm$ 0.069  $\chi^2$ /NDF: 606.4/1



asym\_sam5\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 105.714+/-689.215  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 283.608+/-1885.468  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

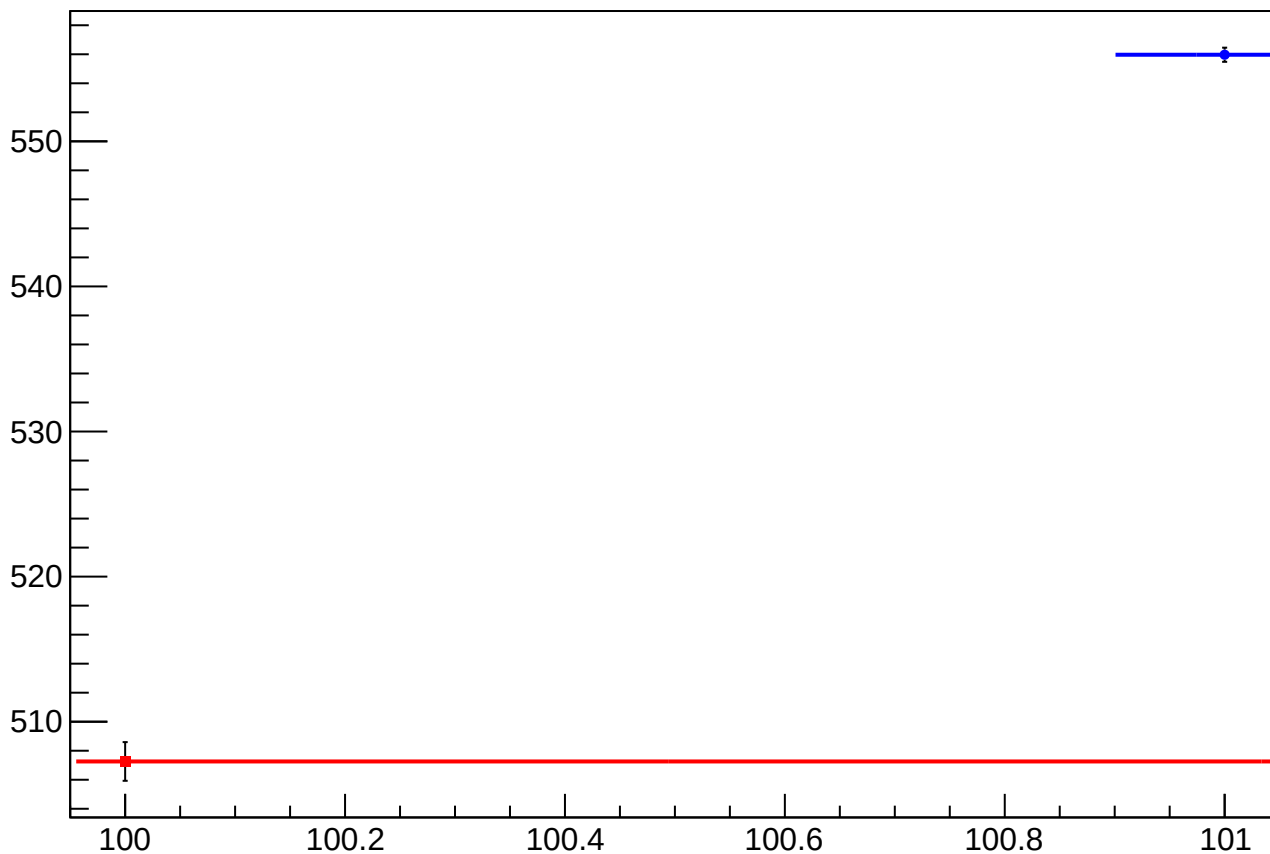
Right: 126.683+/-647.323  $\chi^2/\text{NDF}$ : 0.0/1

In: 105.714+/-689.215  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 126.683+/-647.323  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam5\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 555.968 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 507.261 $\pm$ 1.333  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

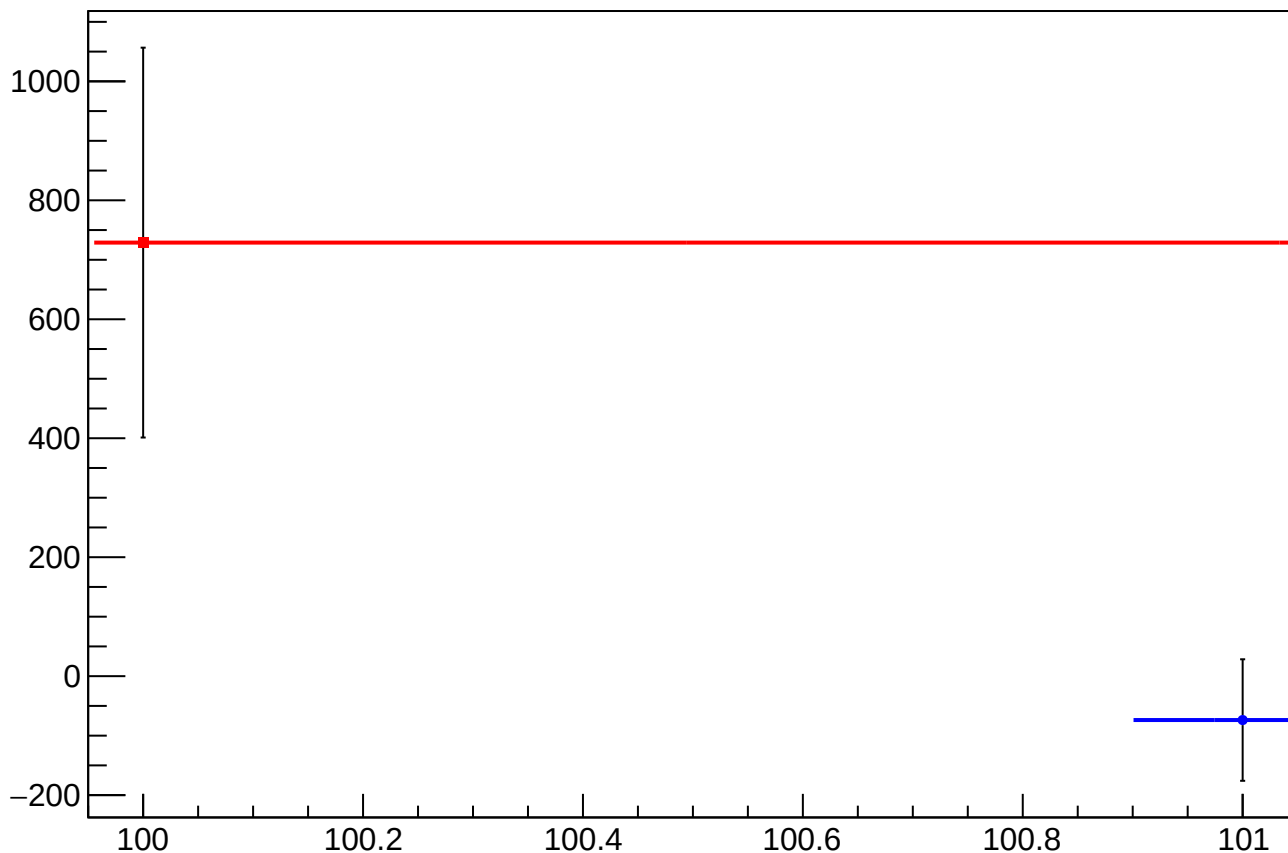
Right: 550.227 $\pm$ 0.458  $\chi^2$ /NDF: 1177.4/1

In: 555.968 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 550.227 $\pm$ 0.458  $\chi^2$ /NDF: 1177.4/1

# cor\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: -73.762 $\pm$ 102.147  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 728.906 $\pm$ 327.706  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -2.681 $\pm$ 97.520  $\chi^2$ /NDF: 5.5/1

In: -73.762 $\pm$ 102.147  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.681 $\pm$ 97.520  $\chi^2$ /NDF: 5.5/1

# cor\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 82.220 $\pm$ 0.072  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 88.197 $\pm$ 0.232  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

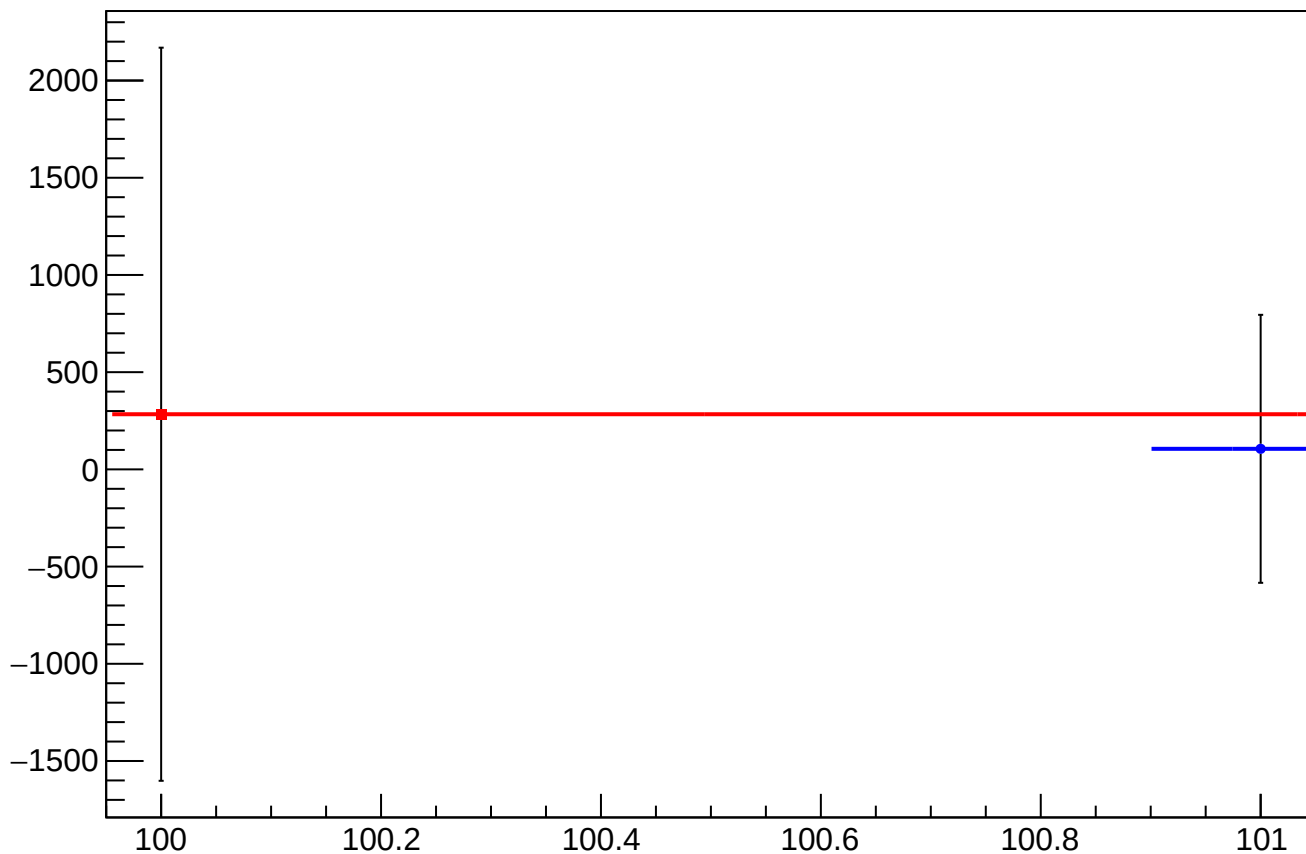
Right: 82.749 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 606.4/1

In: 82.220 $\pm$ 0.072  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.749 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 606.4/1

asym\_sam5\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 105.718+/-689.216  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 283.615+/-1885.470  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

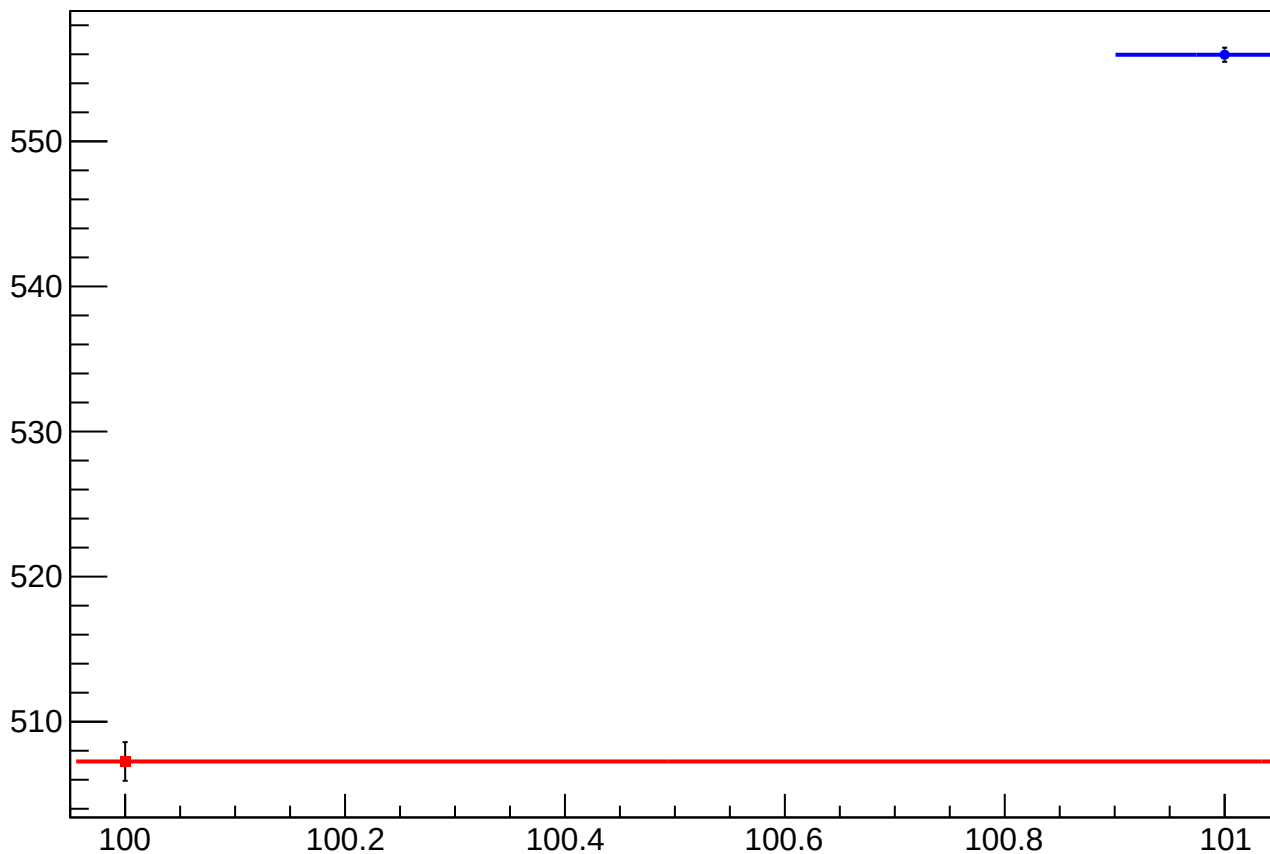
Right: 126.687+/-647.324  $\chi^2$ /NDF: 0.0/1

In: 105.718+/-689.216  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 126.687+/-647.324  $\chi^2$ /NDF: 0.0/1

asym\_sam5\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 555.969 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 507.261 $\pm$ 1.333  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

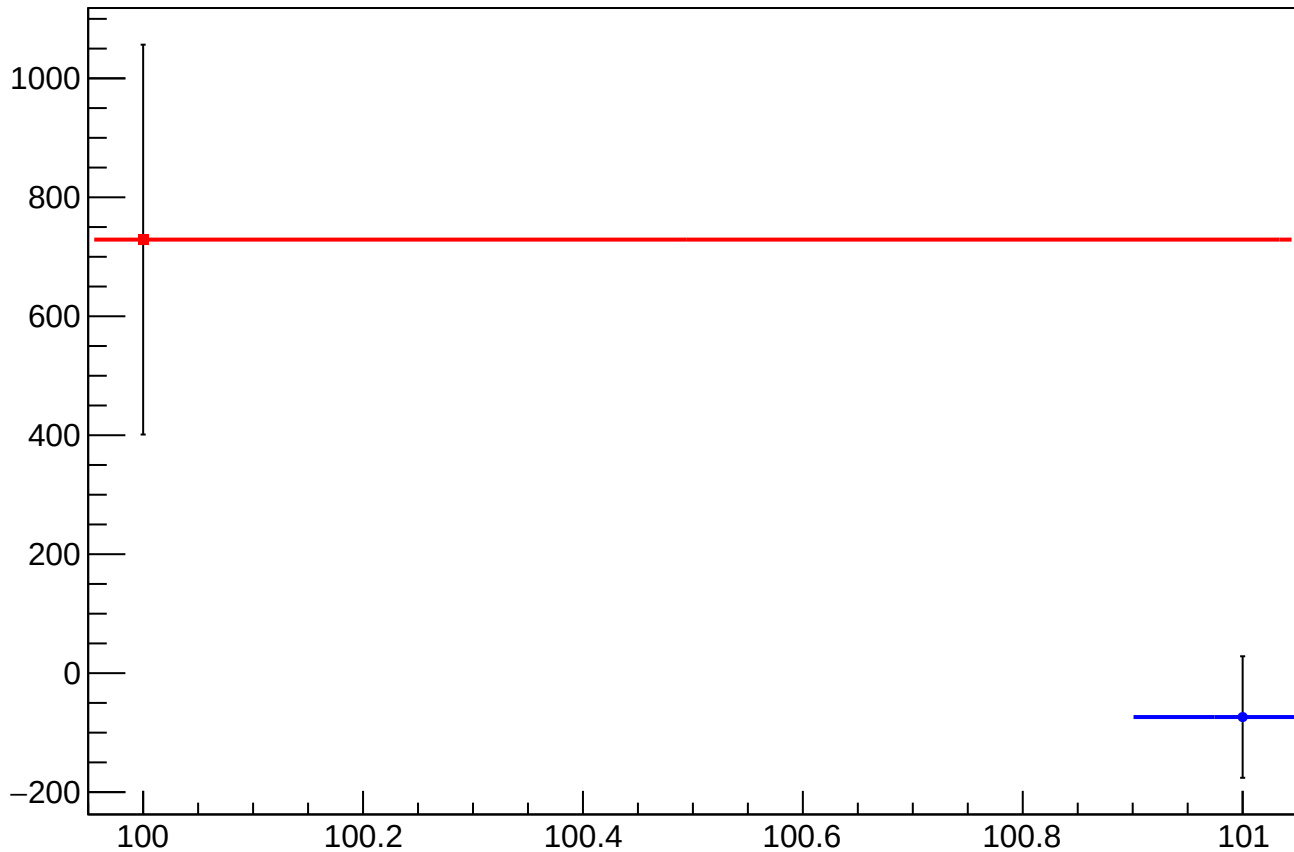
Right: 550.228 $\pm$ 0.458  $\chi^2$ /NDF: 1177.4/1

In: 555.969 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 550.228 $\pm$ 0.458  $\chi^2$ /NDF: 1177.4/1

eigen\_cor\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: -73.762 $\pm$ 102.147  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 728.906 $\pm$ 327.706  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

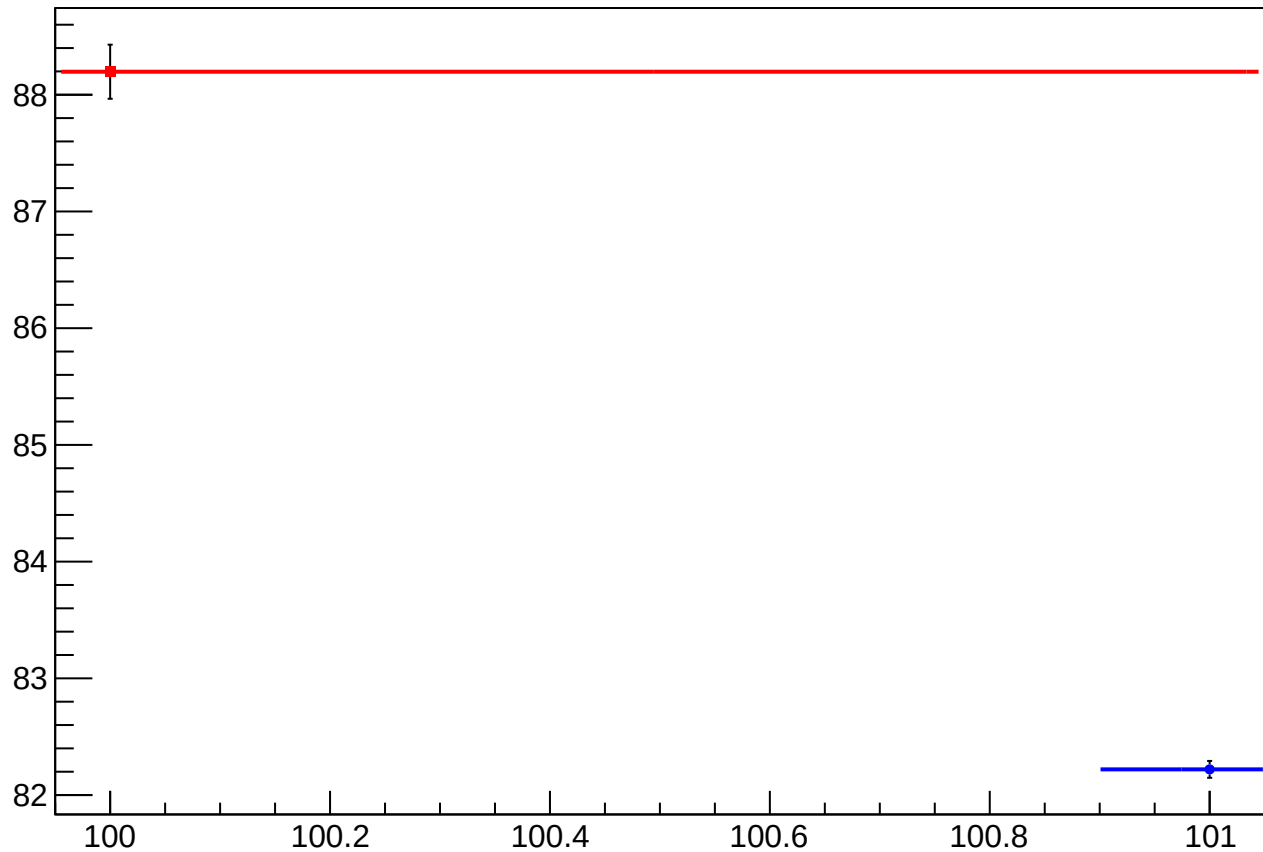
Right: -2.681 $\pm$ 97.520  $\chi^2$ /NDF: 5.5/1

In: -73.762 $\pm$ 102.147  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -2.681 $\pm$ 97.520  $\chi^2$ /NDF: 5.5/1

# eigen\_cor\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 82.220 $\pm$ 0.072  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 88.197 $\pm$ 0.232  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 82.749 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 606.4/1

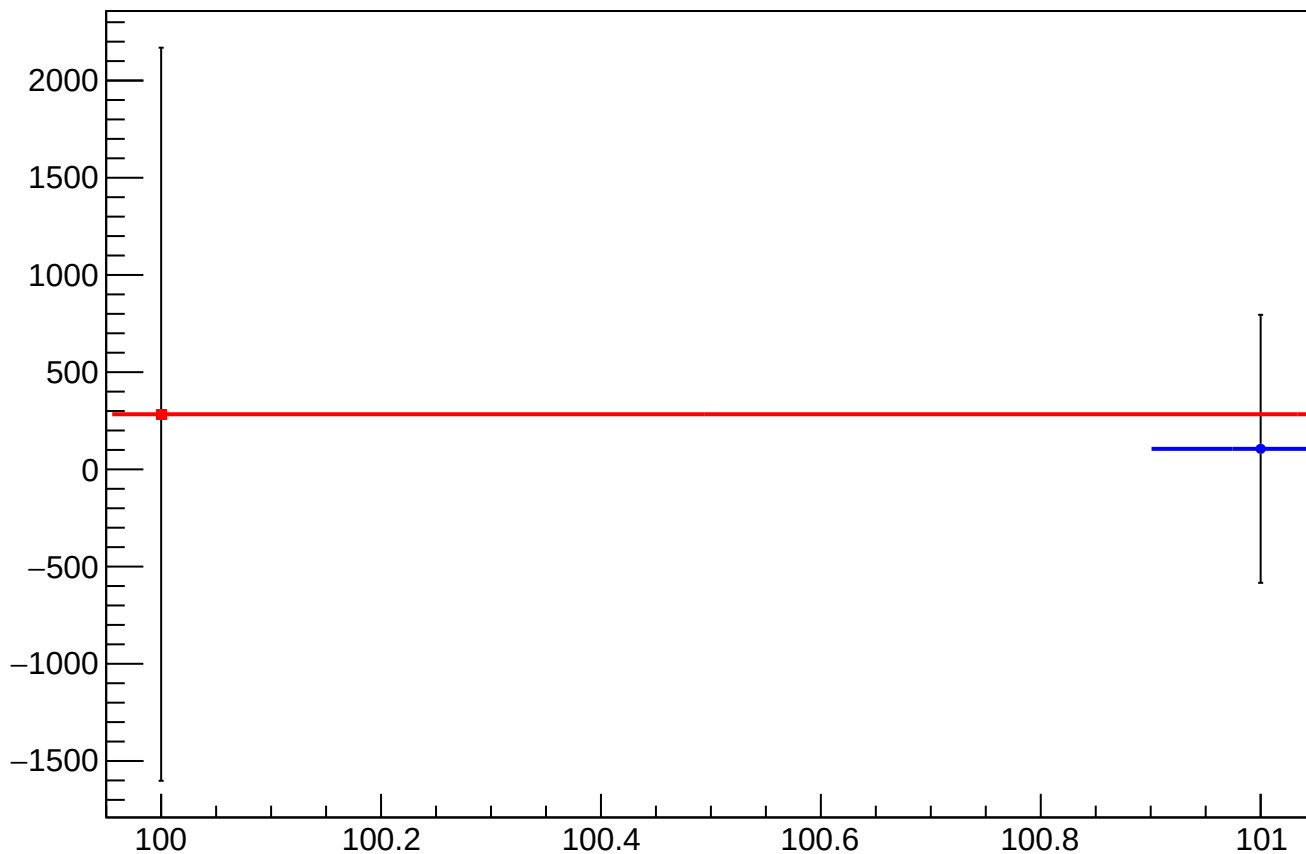
In: 82.220 $\pm$ 0.072  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 82.749 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 606.4/1



asym\_sam5\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 105.718+/-689.216  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 283.615+/-1885.470  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

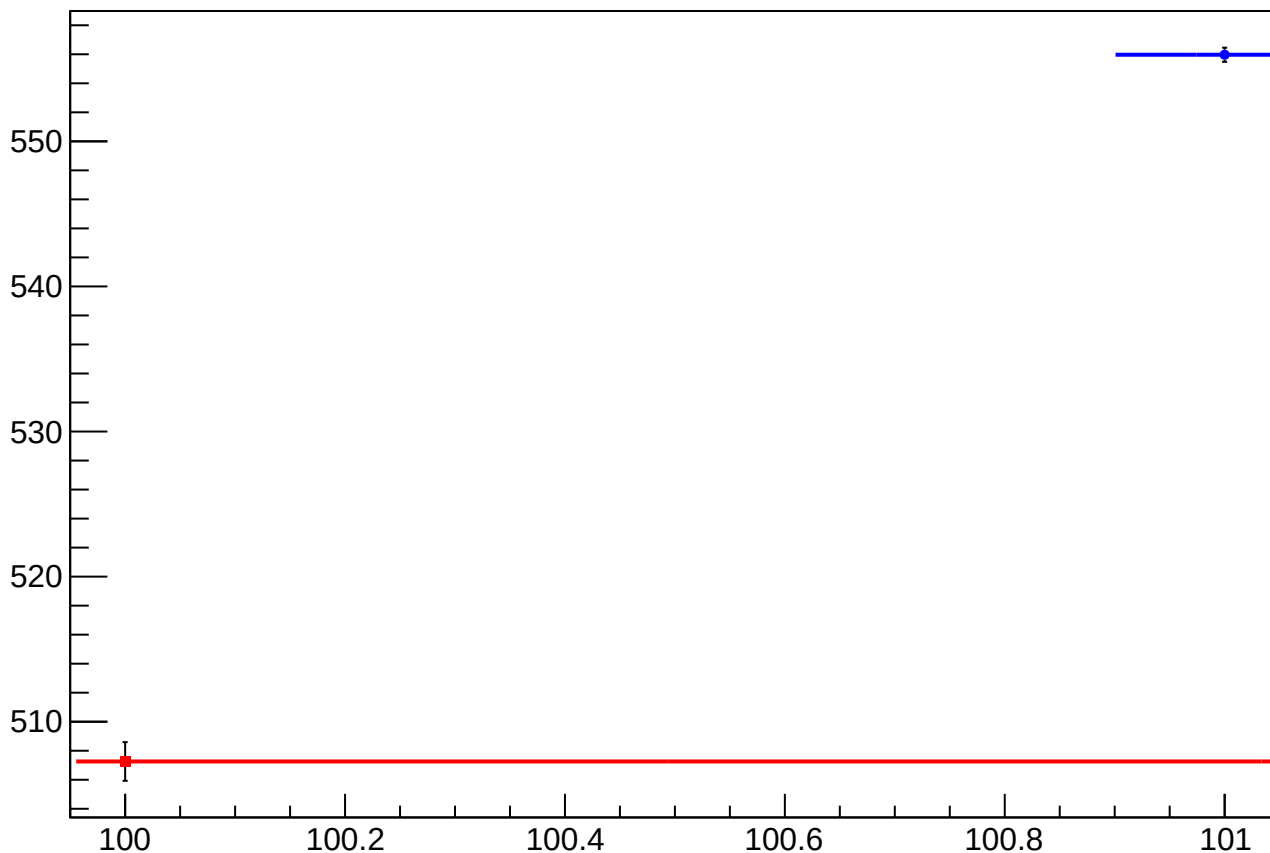
Right: 126.687+/-647.324  $\chi^2$ /NDF: 0.0/1

In: 105.718+/-689.216  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 126.687+/-647.324  $\chi^2$ /NDF: 0.0/1

asym\_sam5\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 555.969 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 507.261 $\pm$ 1.333  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

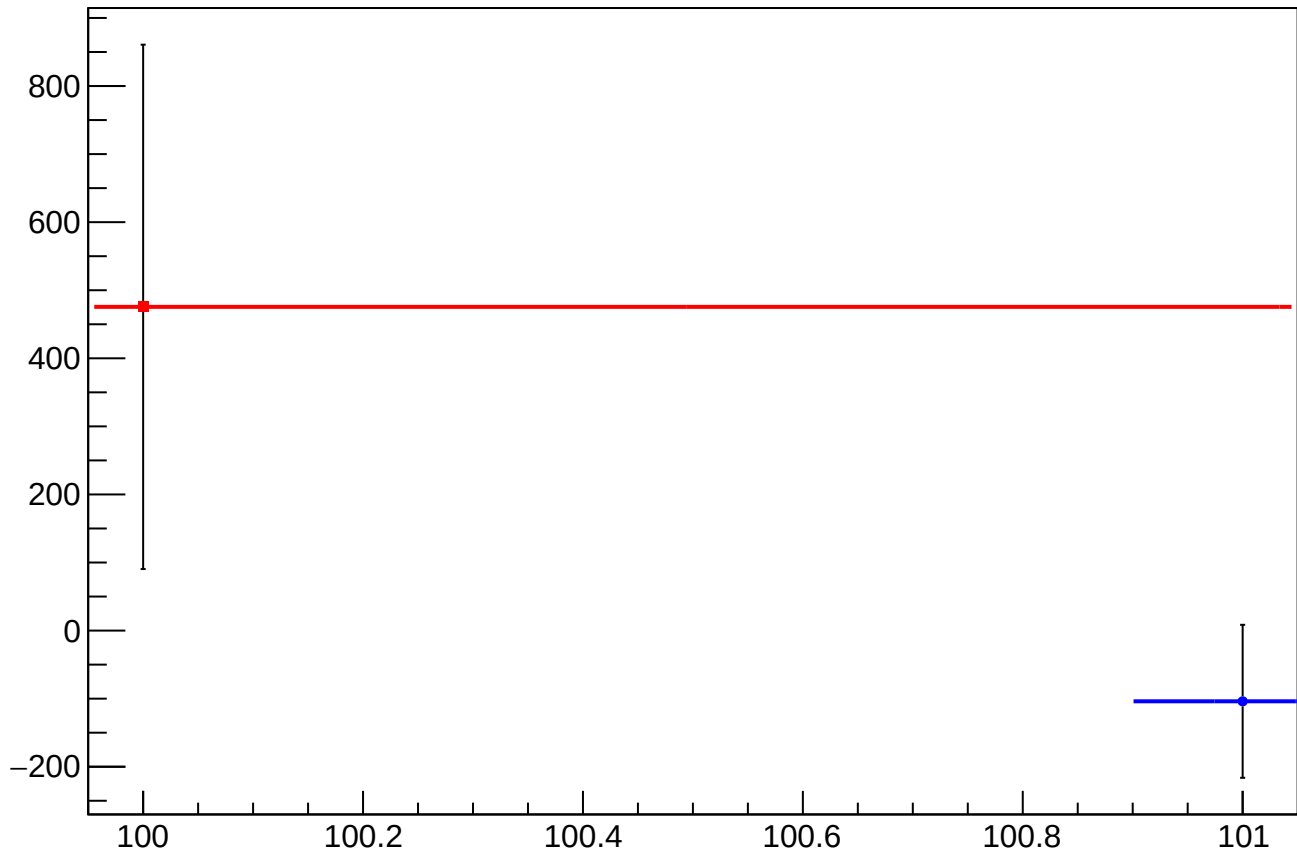
Right: 550.228 $\pm$ 0.458  $\chi^2$ /NDF: 1177.4/1

In: 555.969 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 550.228 $\pm$ 0.458  $\chi^2$ /NDF: 1177.4/1

# dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: -103.884+/-112.376  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 475.575+/-385.180  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

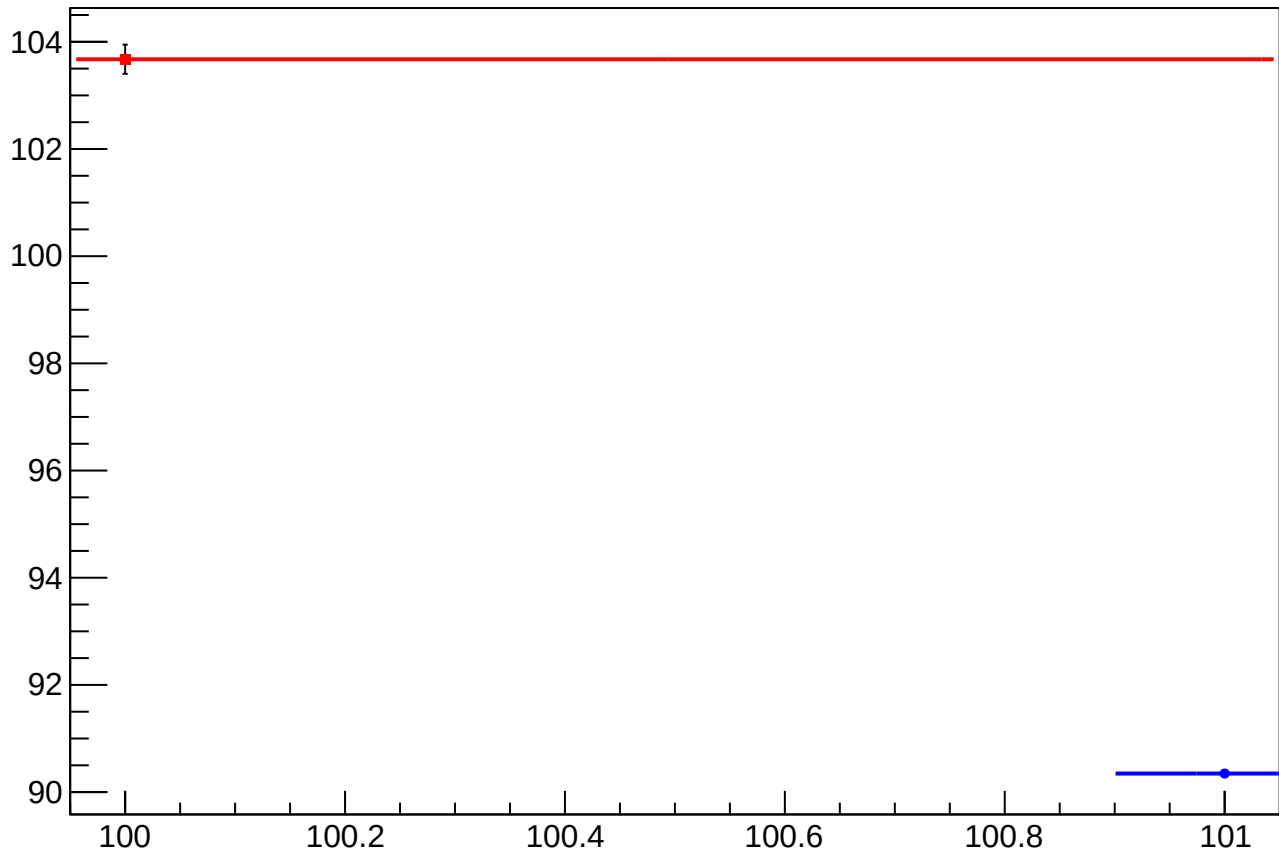
Right: -58.431+/-107.878  $\chi^2/\text{NDF}$ : 2.1/1

In: -103.884+/-112.376  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -58.431+/-107.878  $\chi^2/\text{NDF}$ : 2.1/1

# dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 90.346+/-0.079  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.674+/-0.272  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

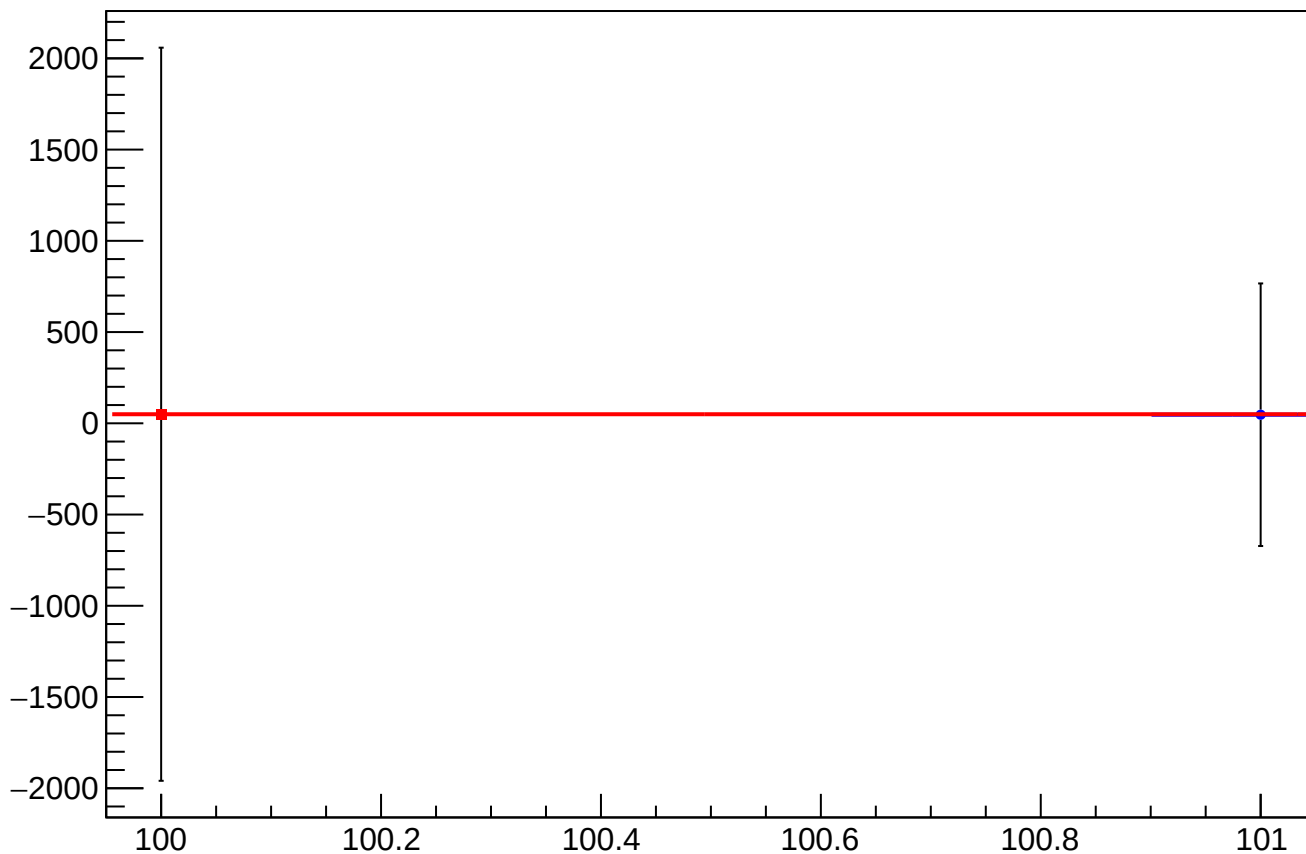
Right: 91.392+/-0.076  $\chi^2/\text{NDF}$ : 2206.8/1

In: 90.346+/-0.079  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.392+/-0.076  $\chi^2/\text{NDF}$ : 2206.8/1

asym\_sam5\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 46.982+/-719.523  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.689+/-2008.872  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

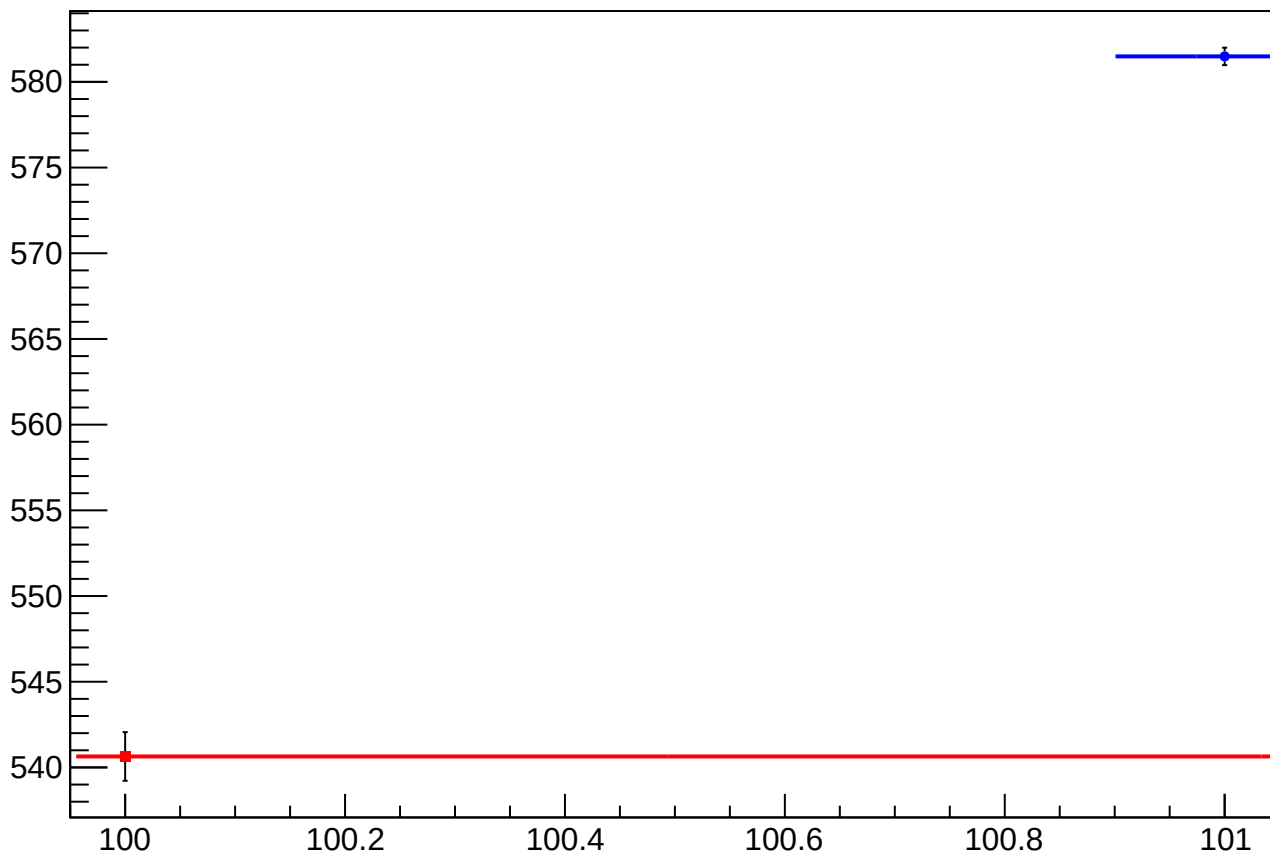
Right: 47.290+/-677.384  $\chi^2/\text{NDF}$ : 0.0/1

In: 46.982+/-719.523  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.290+/-677.384  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam5\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 581.487+/-0.509  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 540.640+/-1.420  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

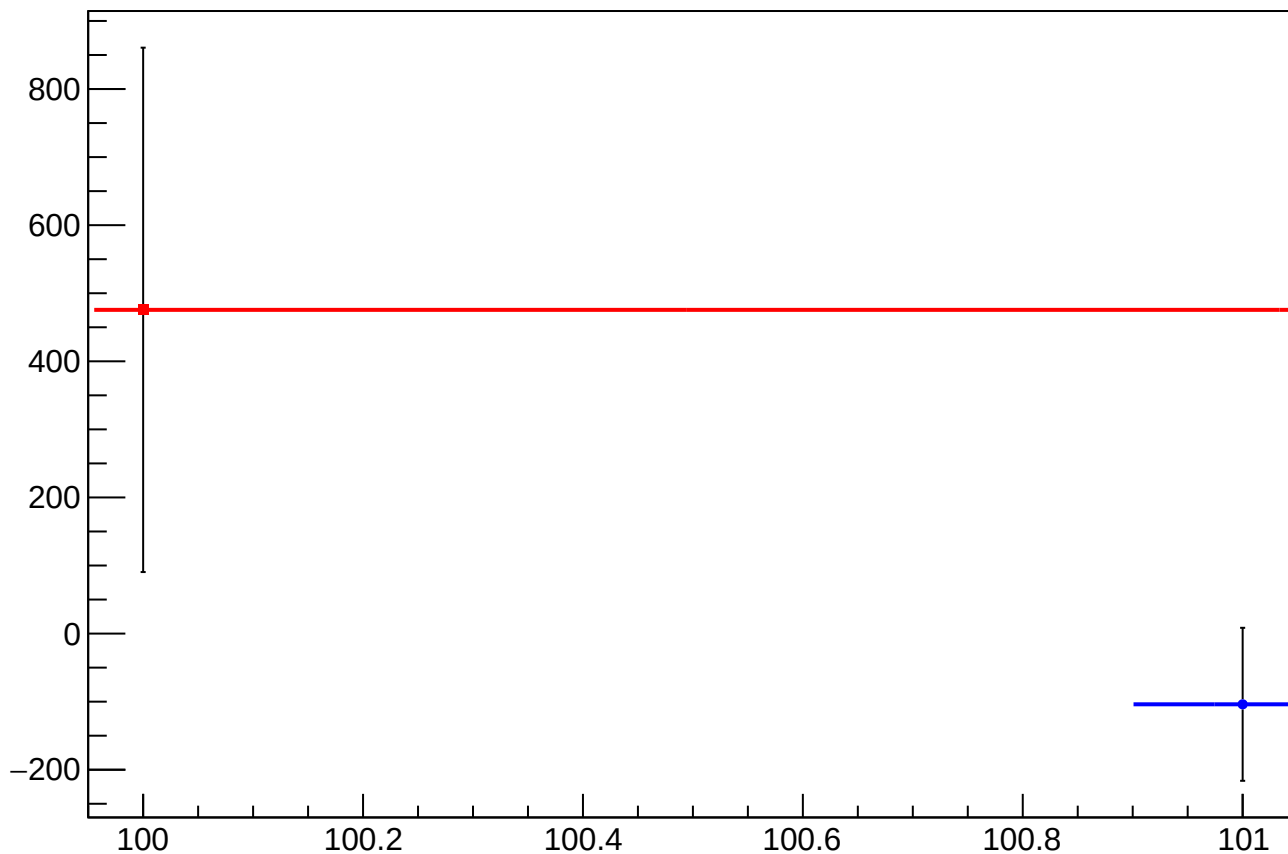
Right: 576.842+/-0.479  $\chi^2$ /NDF: 732.9/1

In: 581.487+/-0.509  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 576.842+/-0.479  $\chi^2$ /NDF: 732.9/1

eigen\_dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: -103.886+/-112.375  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 475.580+/-385.177  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

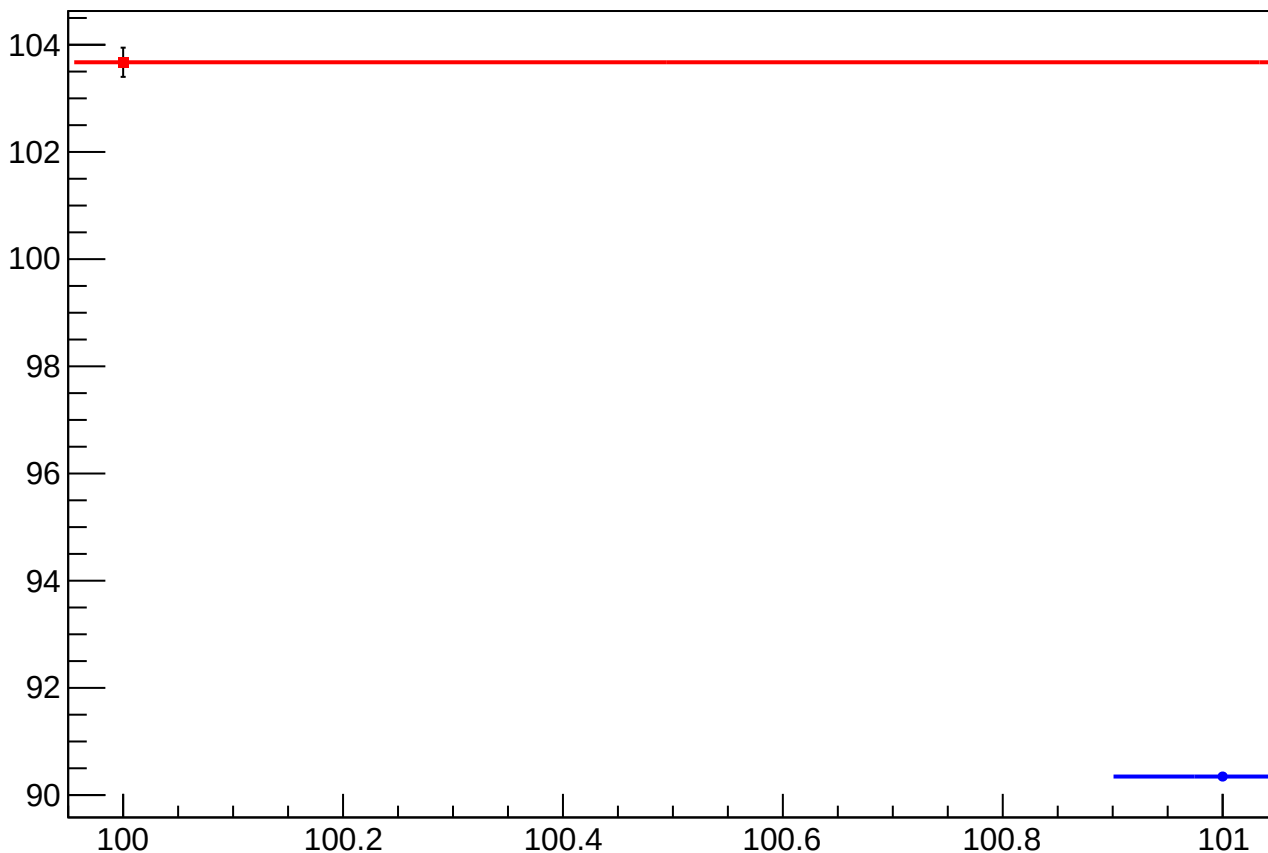
Right: -58.432+/-107.878  $\chi^2/\text{NDF}$ : 2.1/1

In: -103.886+/-112.375  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -58.432+/-107.878  $\chi^2/\text{NDF}$ : 2.1/1

# eigen\_dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 90.346+/-0.079  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.674+/-0.272  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 91.391+/-0.076  $\chi^2/\text{NDF}$ : 2206.7/1

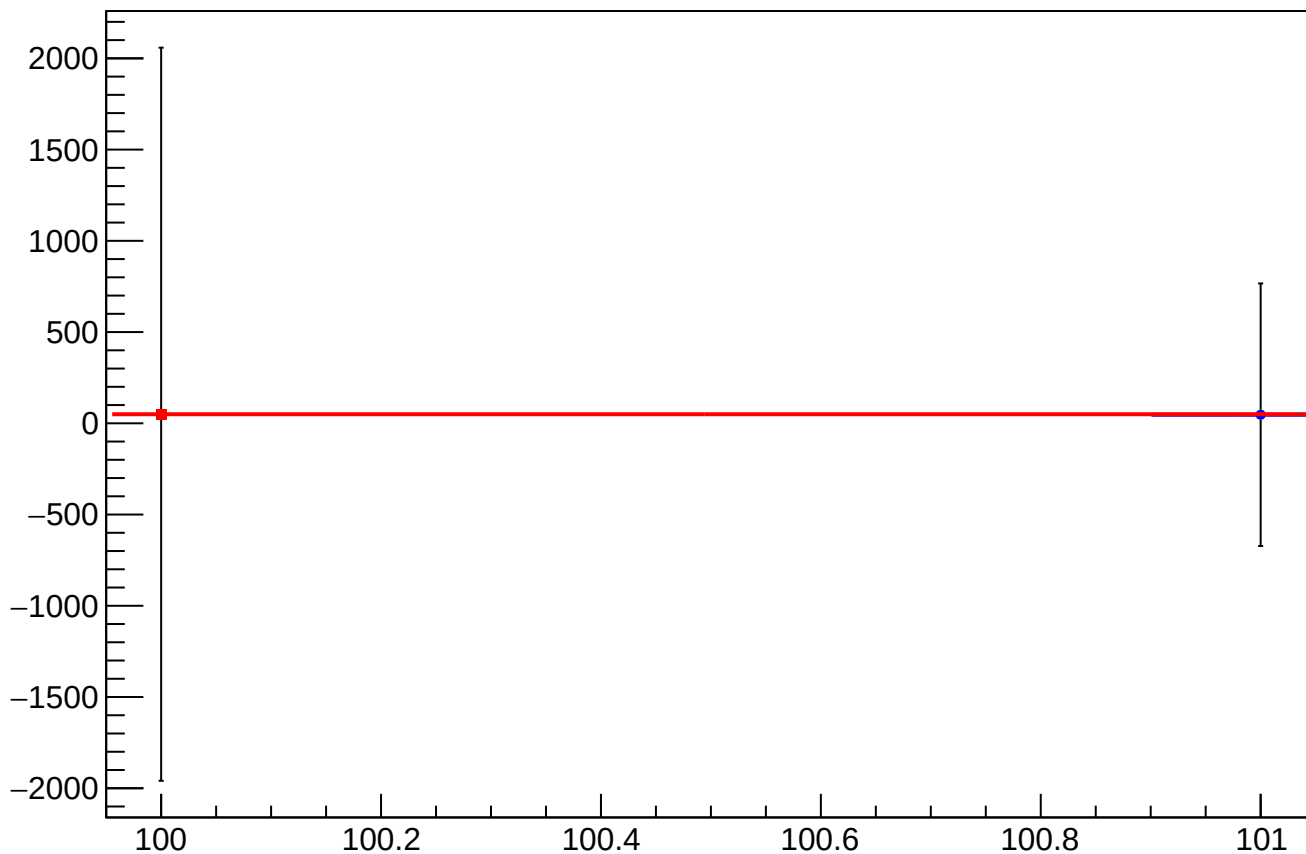
In: 90.346+/-0.079  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.391+/-0.076  $\chi^2/\text{NDF}$ : 2206.7/1



asym\_sam5\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 46.981+/-719.521  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 49.695+/-2008.866  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

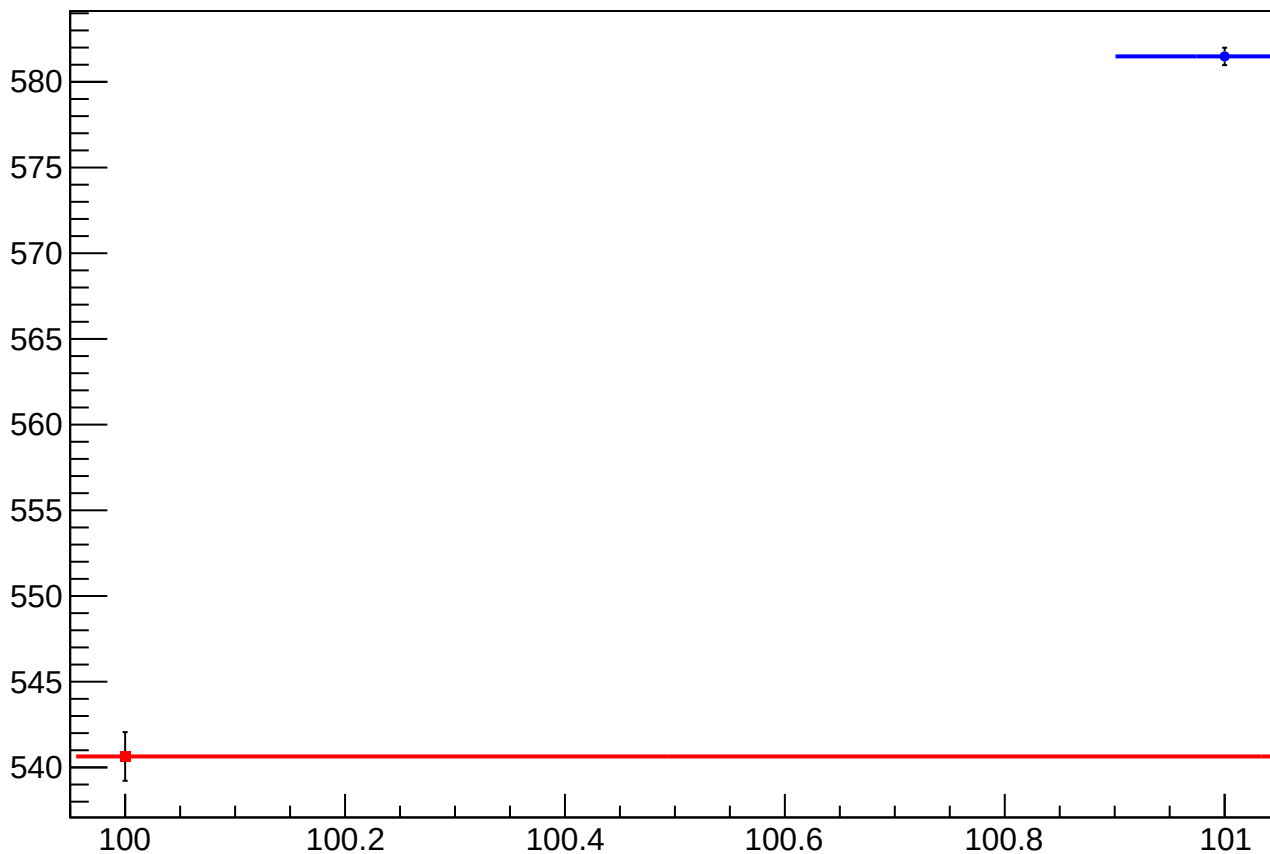
Right: 47.289+/-677.382  $\chi^2/\text{NDF}$ : 0.0/1

In: 46.981+/-719.521  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.289+/-677.382  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam5\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 581.486 $\pm$ 0.509  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 540.639 $\pm$ 1.420  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

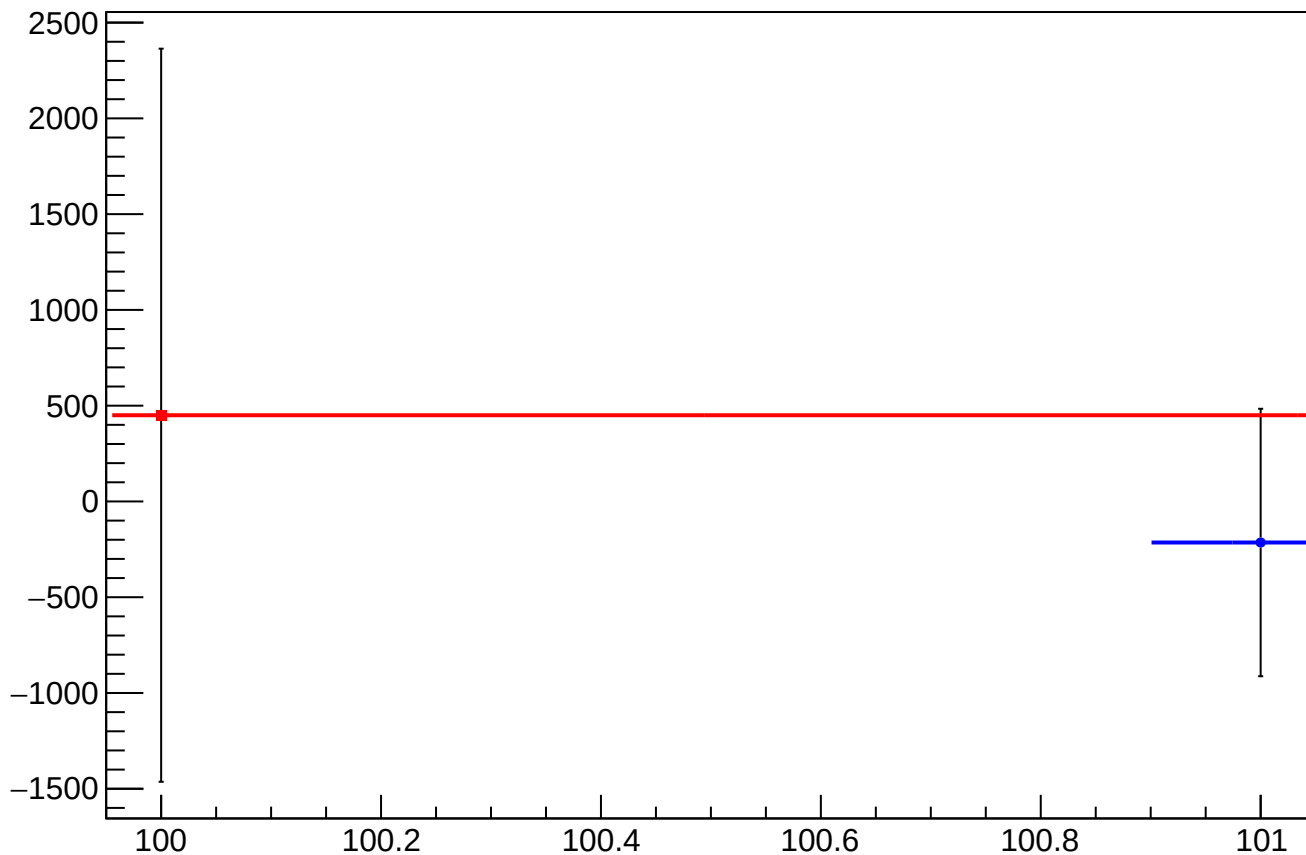
Right: 576.841 $\pm$ 0.479  $\chi^2$ /NDF: 732.9/1

In: 581.486 $\pm$ 0.509  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 576.841 $\pm$ 0.479  $\chi^2$ /NDF: 732.9/1

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In: -214.352+/-698.187  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 450.104+/-1913.788  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

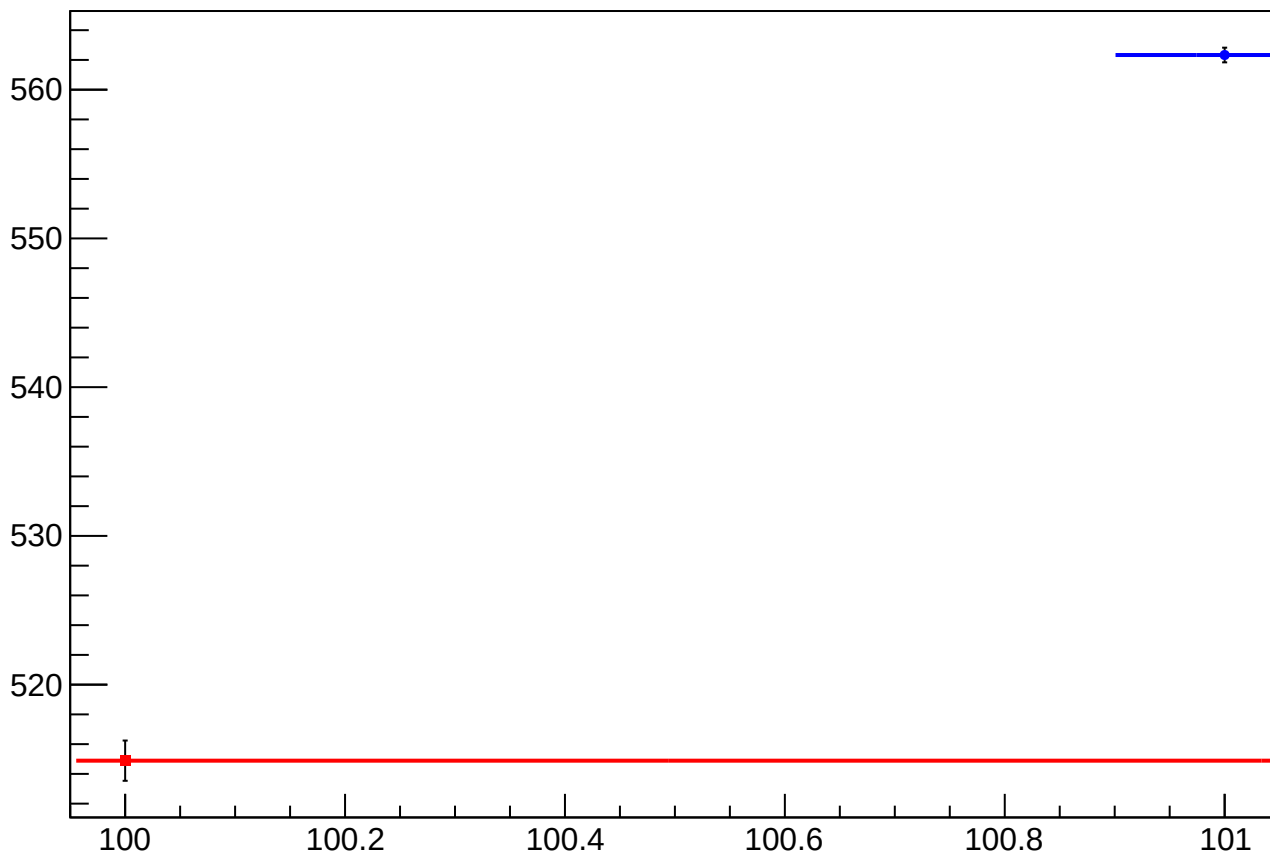
Right: -136.305+/-655.902  $\chi^2/\text{NDF}$ : 0.1/1

In: -214.352+/-698.187  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -136.305+/-655.902  $\chi^2/\text{NDF}$ : 0.1/1

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 562.330+/-0.494  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 514.889+/-1.353  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

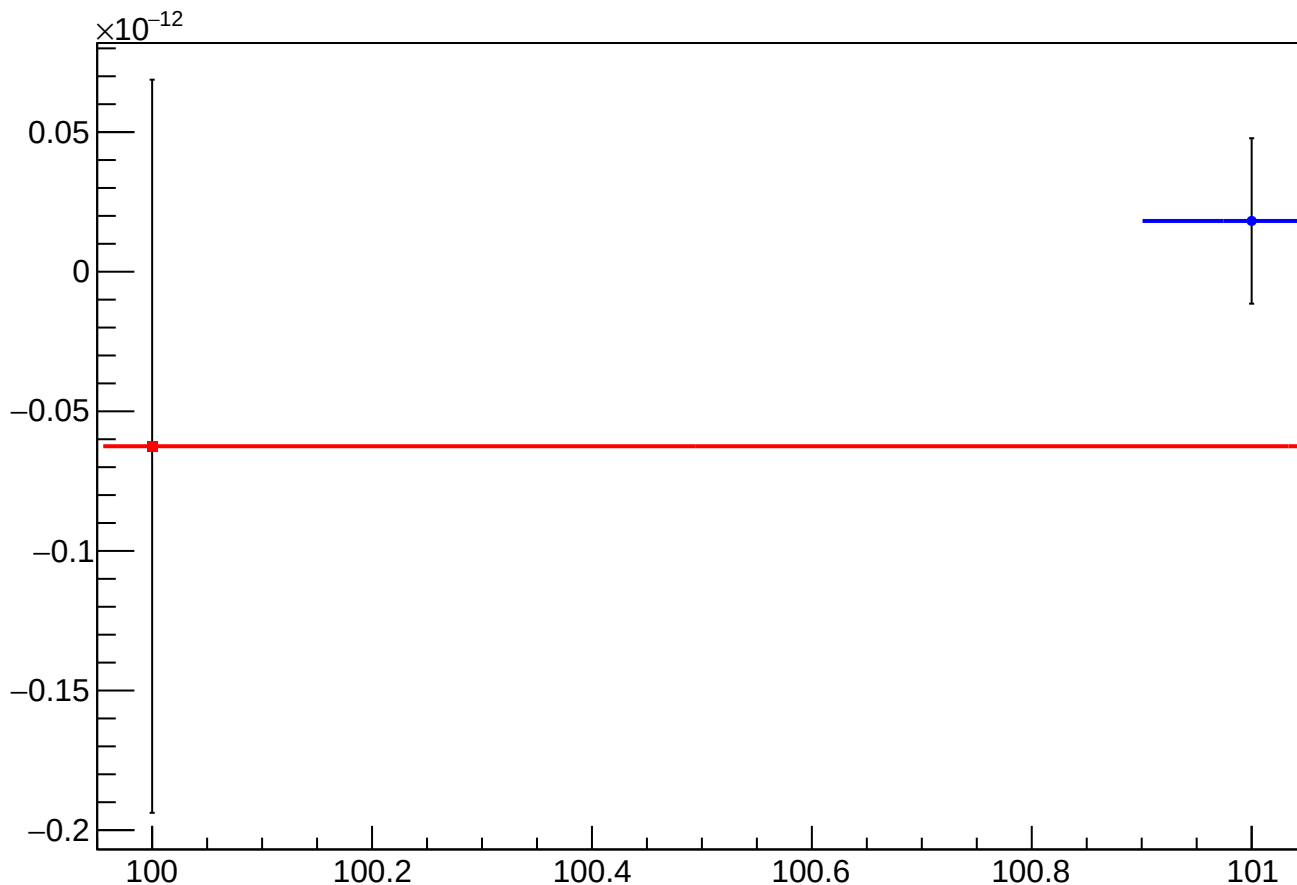
Right: 556.758+/-0.464  $\chi^2/\text{NDF}$ : 1084.7/1

In: 562.330+/-0.494  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 556.758+/-0.464  $\chi^2/\text{NDF}$ : 1084.7/1

asym\_sam5\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

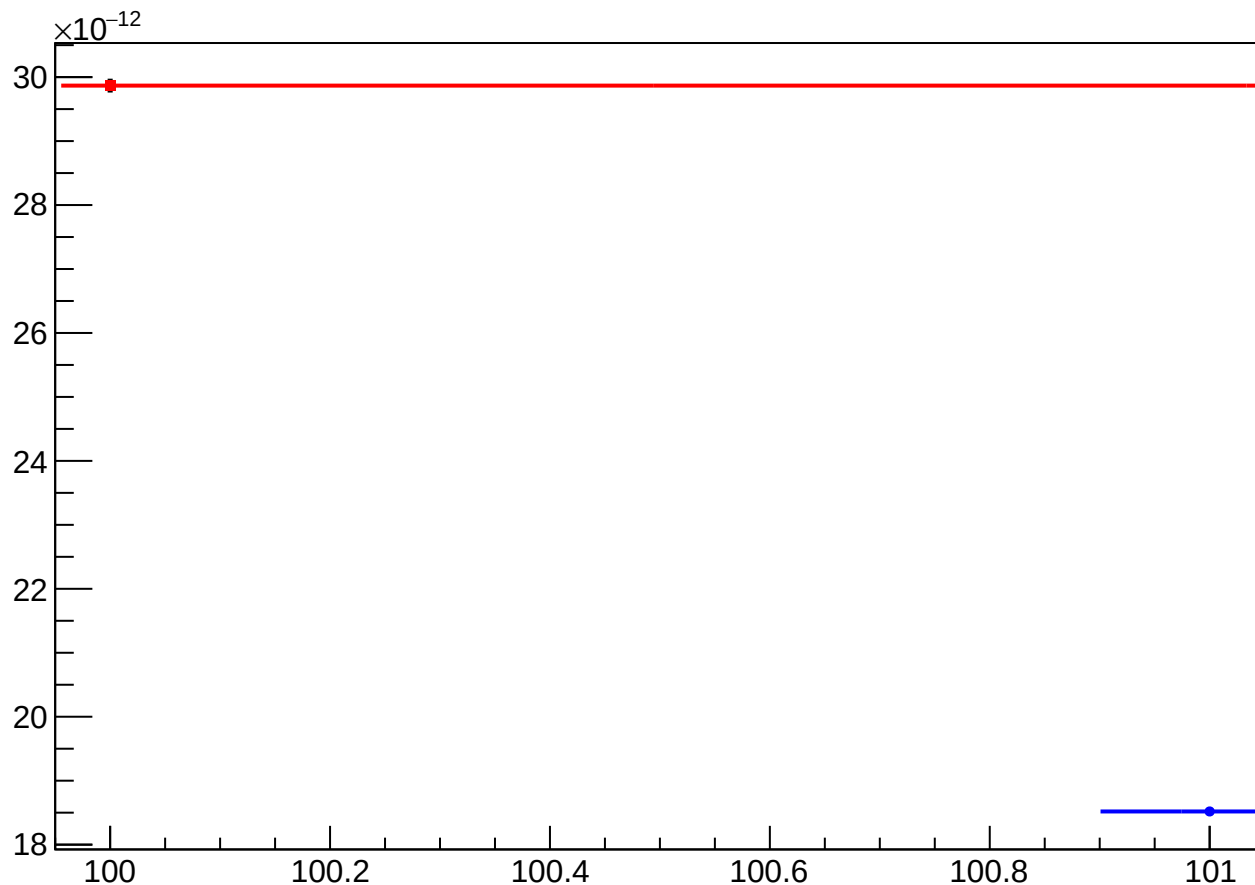
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

asym\_sam5\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

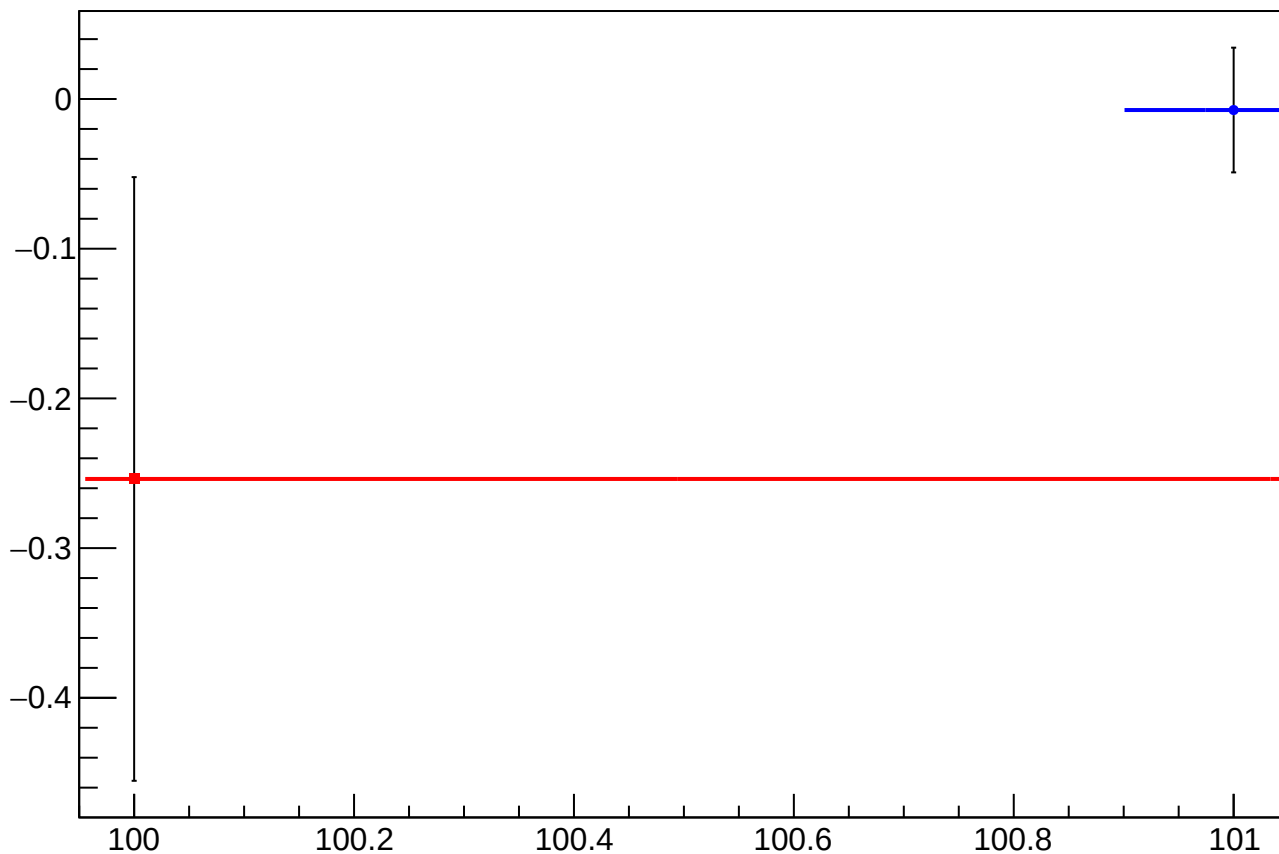
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14219.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14219.4/1

asym\_sam5\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.007 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.254 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

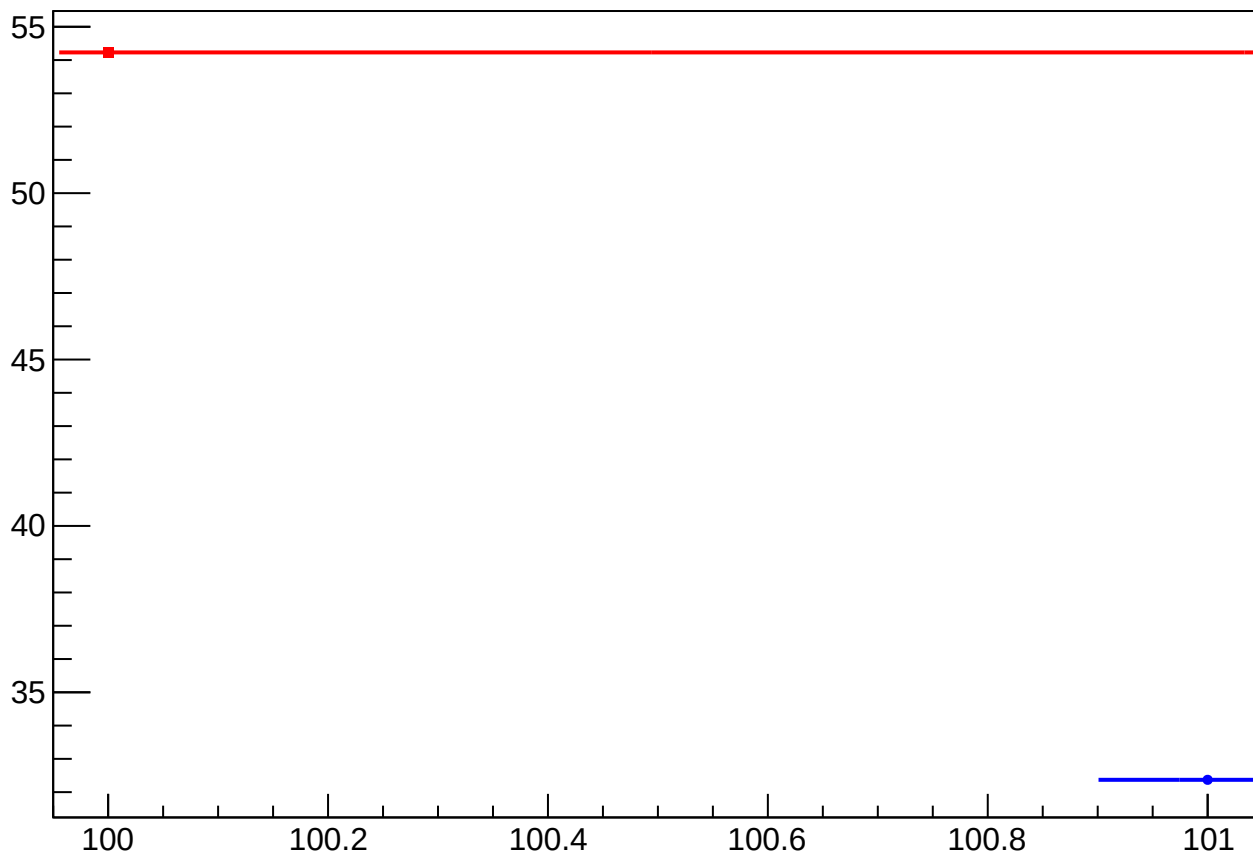
Right: -0.017 $\pm$ 0.041  $\chi^2$ /NDF: 1.4/1

In: -0.007 $\pm$ 0.042  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.017 $\pm$ 0.041  $\chi^2$ /NDF: 1.4/1

asym\_sam5\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 32.370 $\pm$ 0.029  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.230 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 33.265 $\pm$ 0.029  $\chi^2$ /NDF: 22545.6/1

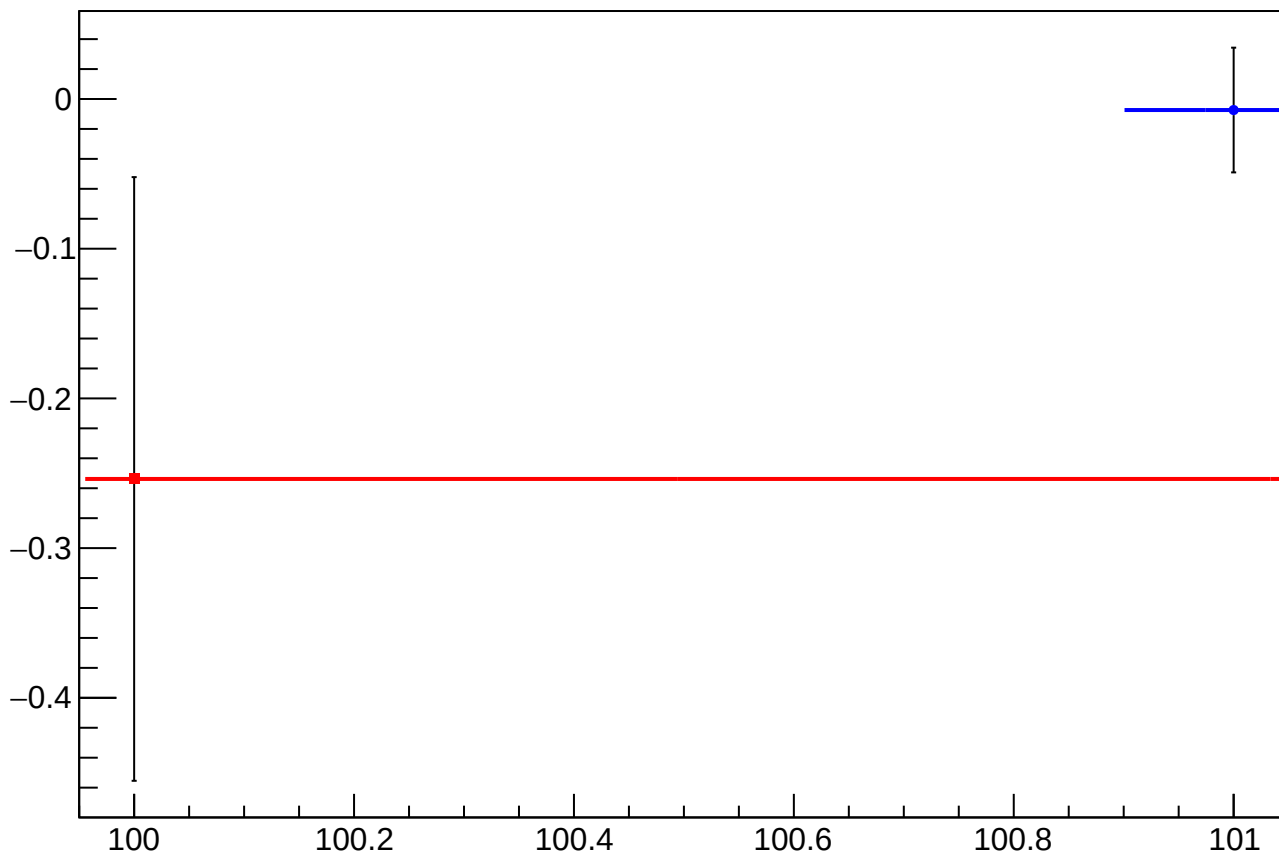
In: 32.370 $\pm$ 0.029  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.265 $\pm$ 0.029  $\chi^2$ /NDF: 22545.6/1



asym\_sam5\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.007 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.254 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -0.017 $\pm$ 0.041  $\chi^2$ /NDF: 1.4/1

In: -0.007 $\pm$ 0.042  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.017 $\pm$ 0.041  $\chi^2$ /NDF: 1.4/1

asym\_sam5\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 32.370 $\pm$ 0.029  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.230 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

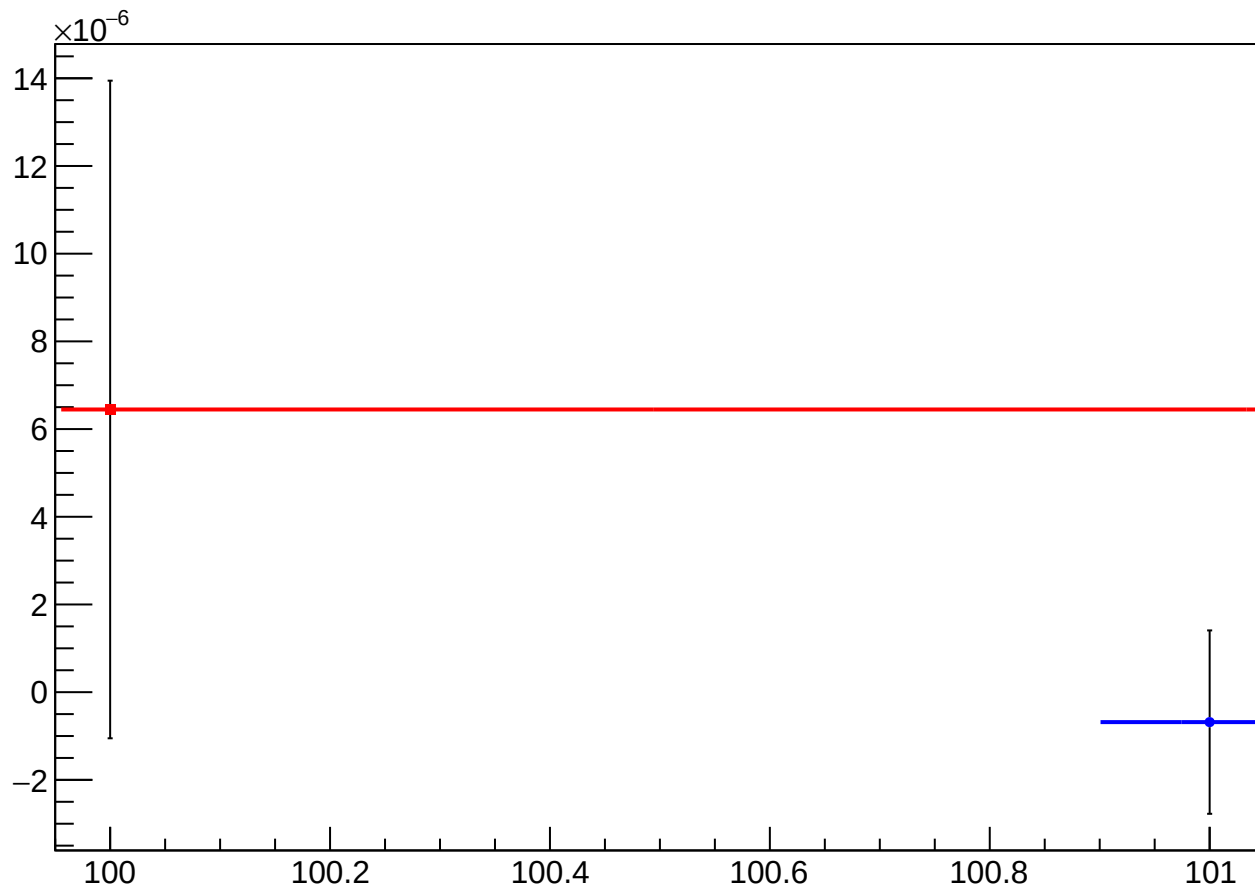
Right: 33.265 $\pm$ 0.029  $\chi^2$ /NDF: 22545.6/1

In: 32.370 $\pm$ 0.029  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.265 $\pm$ 0.029  $\chi^2$ /NDF: 22545.6/1

asym\_sam5\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

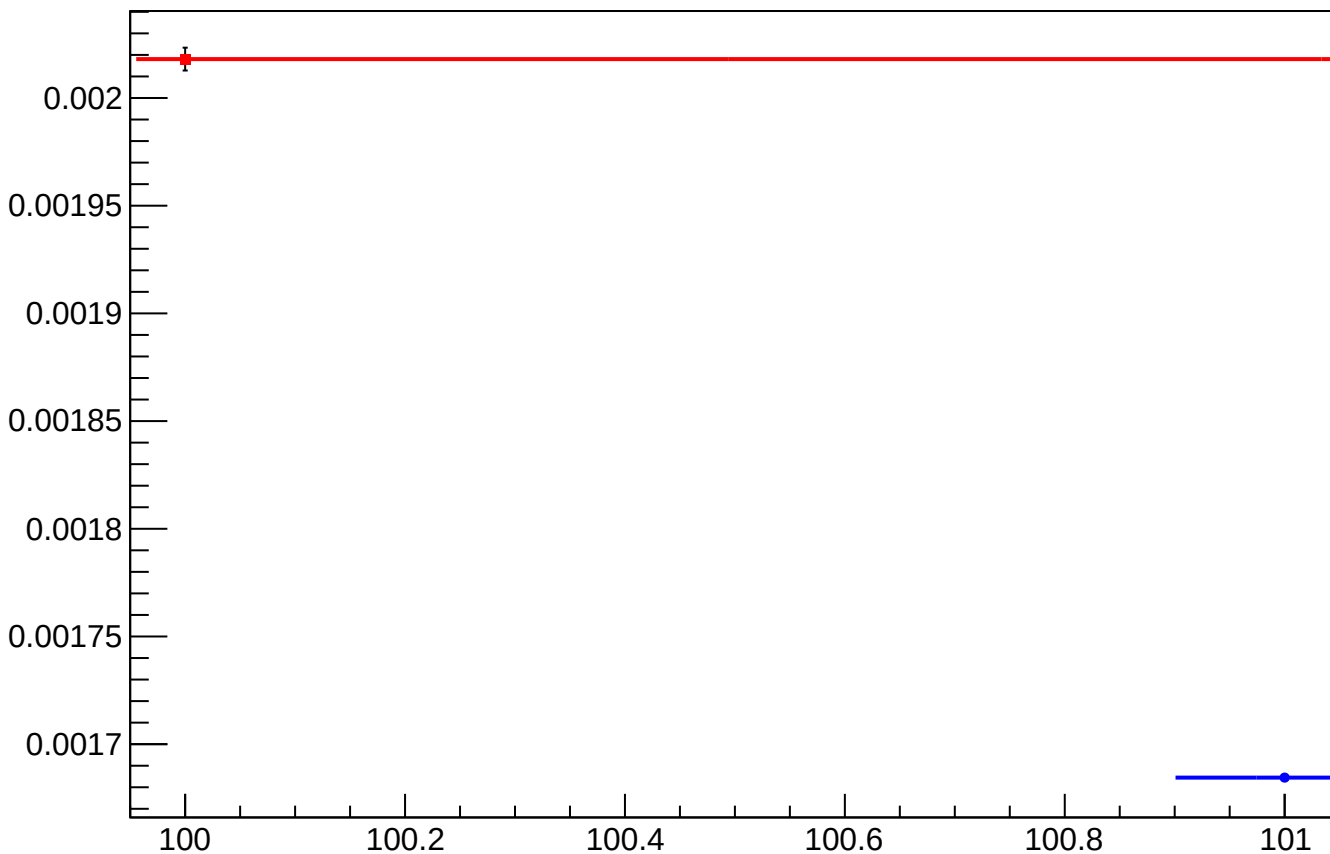
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

asym\_sam5\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

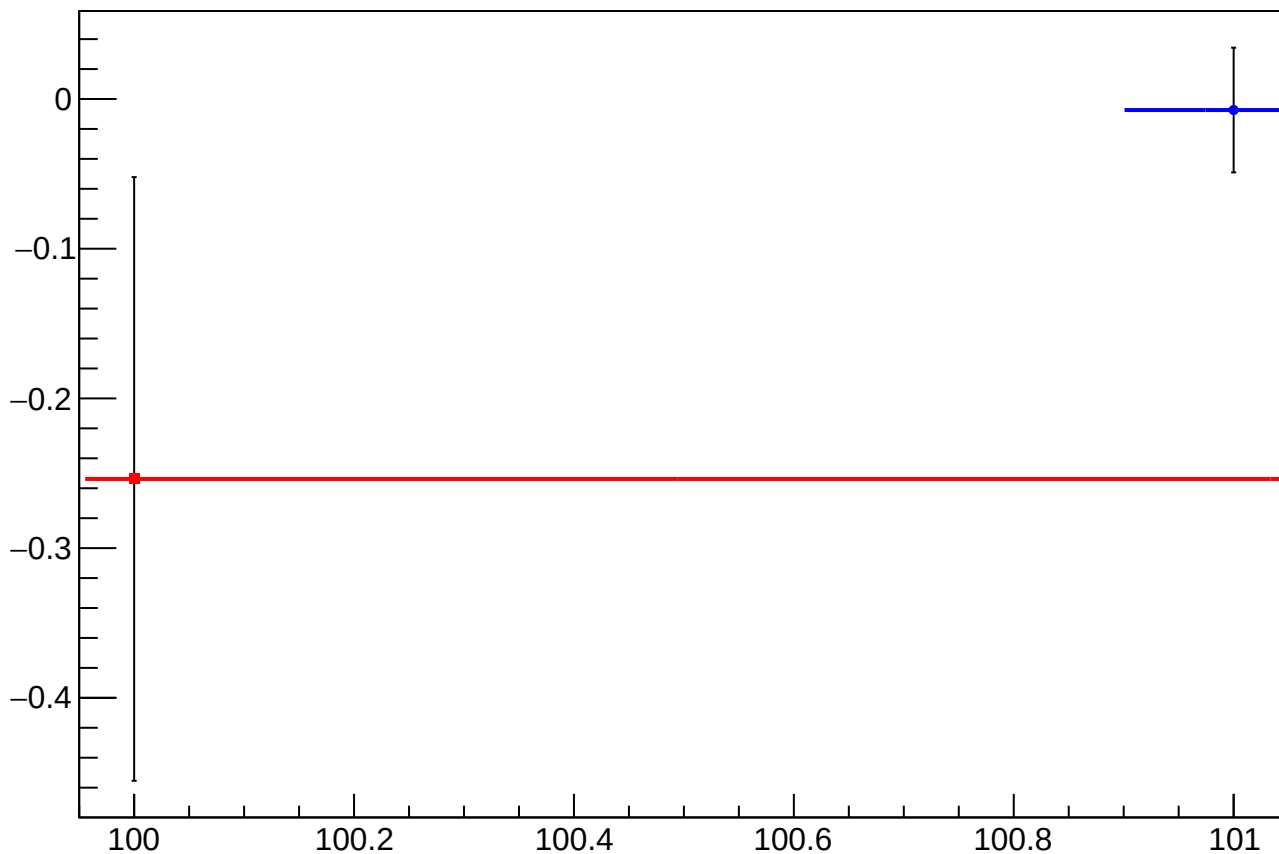
Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3672.4/1

In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3672.4/1

asym\_sam5\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.007 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.254 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

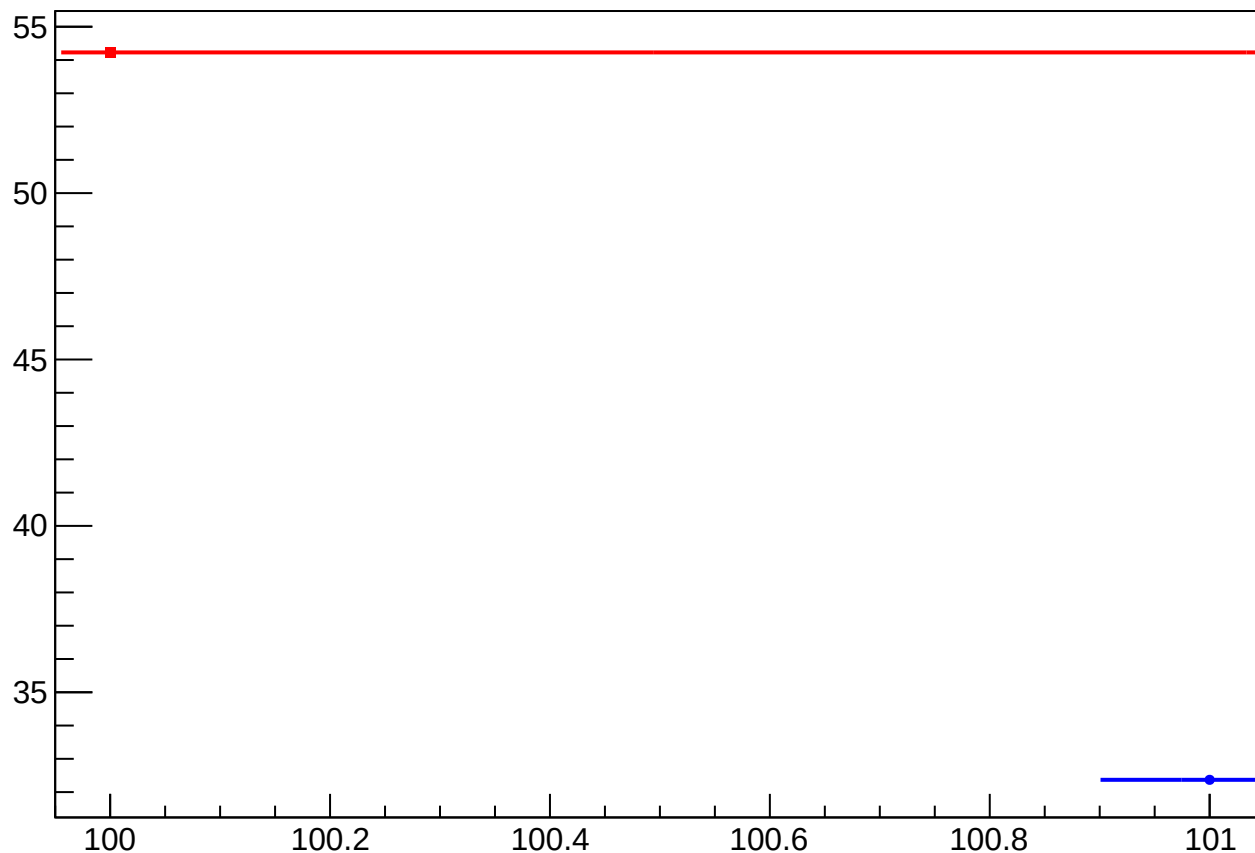
Right: -0.017 $\pm$ 0.041  $\chi^2$ /NDF: 1.4/1

In: -0.007 $\pm$ 0.042  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.017 $\pm$ 0.041  $\chi^2$ /NDF: 1.4/1

asym\_sam5\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 32.369+/-0.029  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 54.228+/-0.143  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

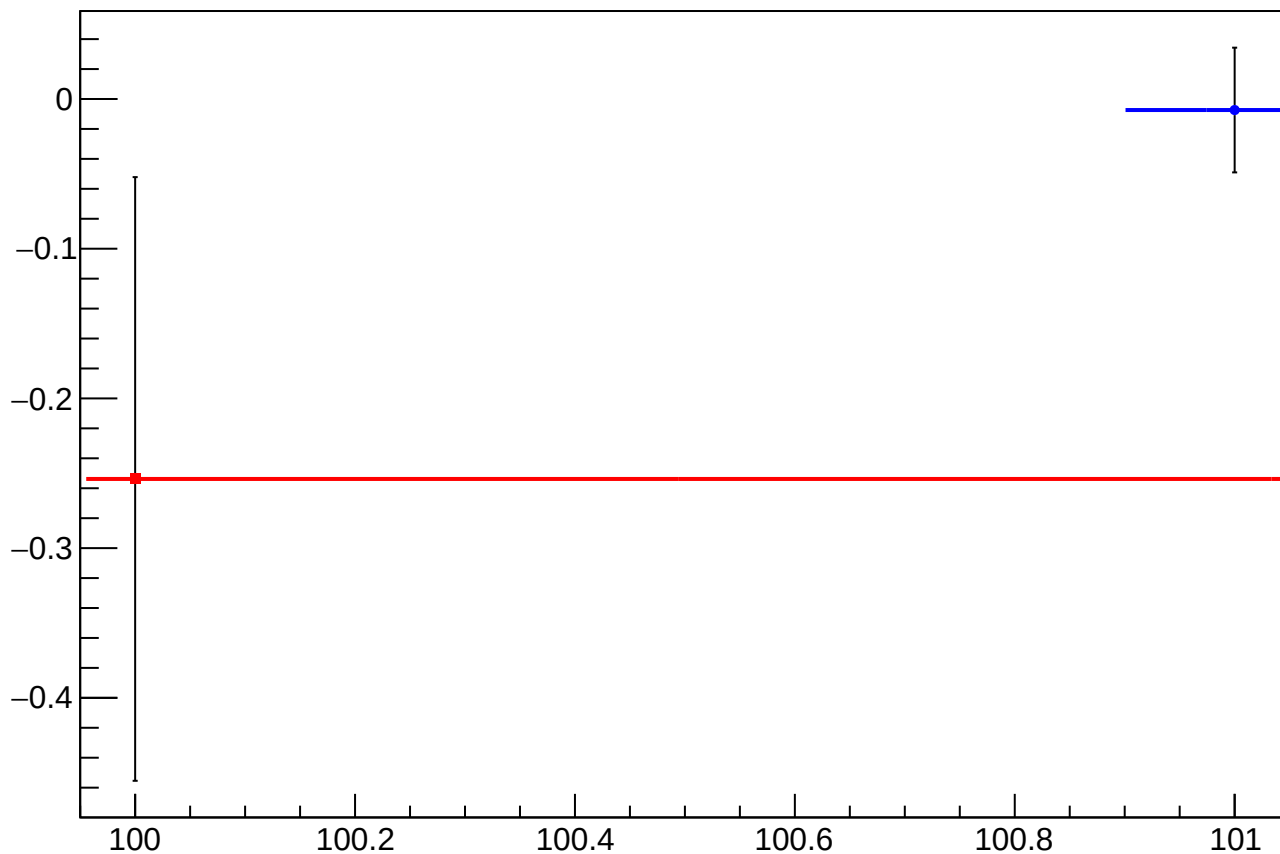
Right: 33.264+/-0.029  $\chi^2/\text{NDF}$ : 22546.3/1

In: 32.369+/-0.029  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.264+/-0.029  $\chi^2/\text{NDF}$ : 22546.3/1

asym\_sam5\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.007 \pm 0.042$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.254 \pm 0.202$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

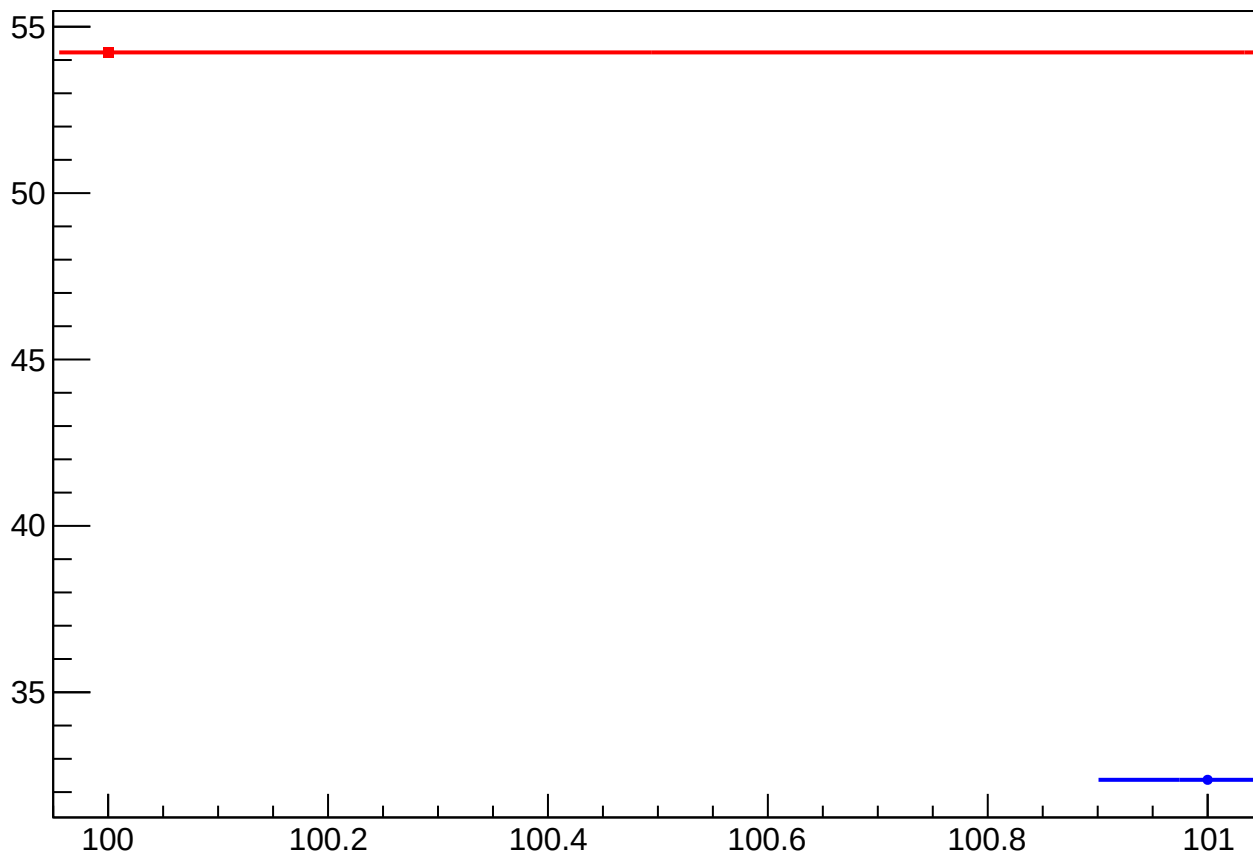
Right:  $-0.017 \pm 0.041$   $\chi^2/\text{NDF}: 1.4/1$

In:  $-0.007 \pm 0.042$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.017 \pm 0.041$   $\chi^2/\text{NDF}: 1.4/1$

asym\_sam5\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 32.369 $\pm$ 0.029  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.228 $\pm$ 0.143  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 33.264 $\pm$ 0.029  $\chi^2$ /NDF: 22546.3/1

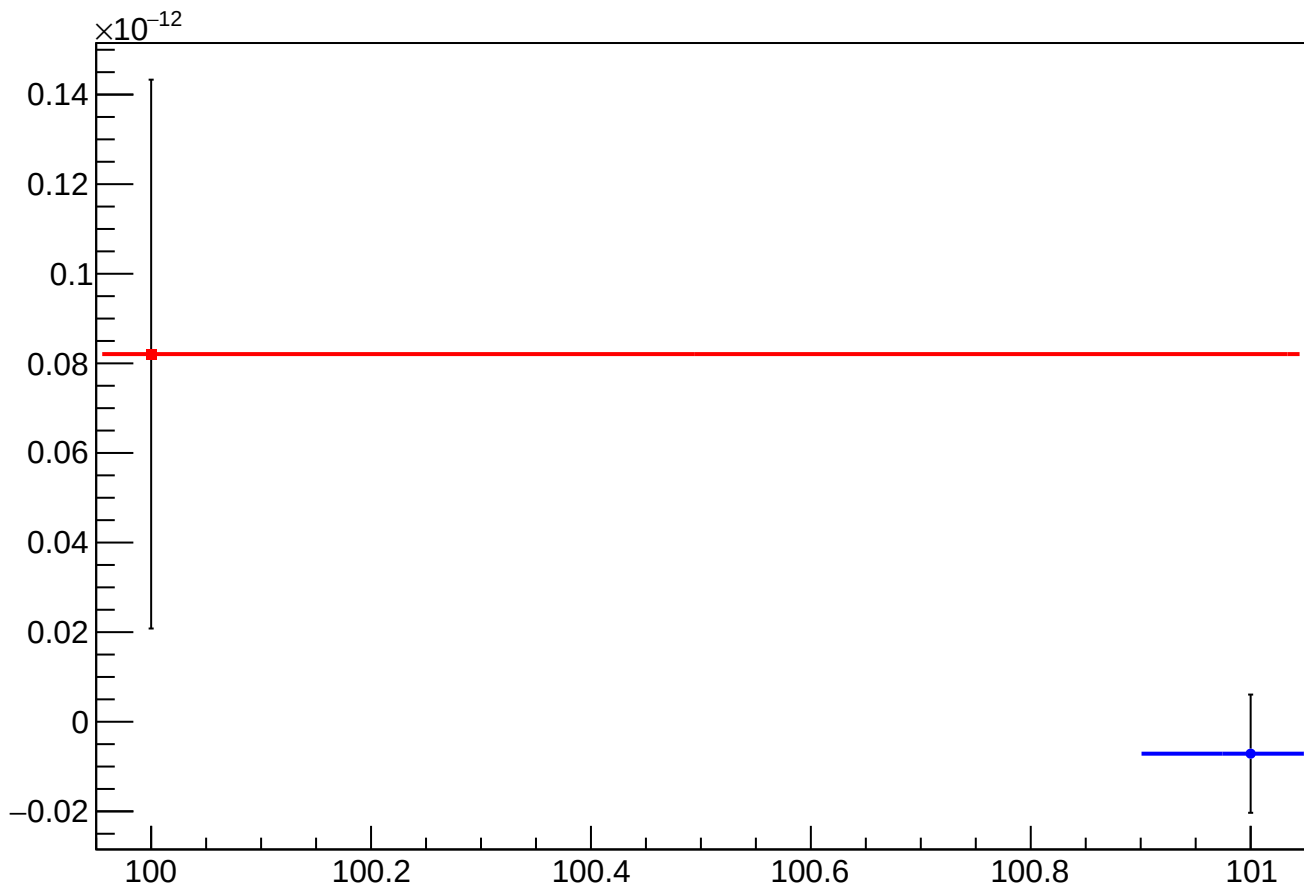
In: 32.369 $\pm$ 0.029  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.264 $\pm$ 0.029  $\chi^2$ /NDF: 22546.3/1



asym\_sam5\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

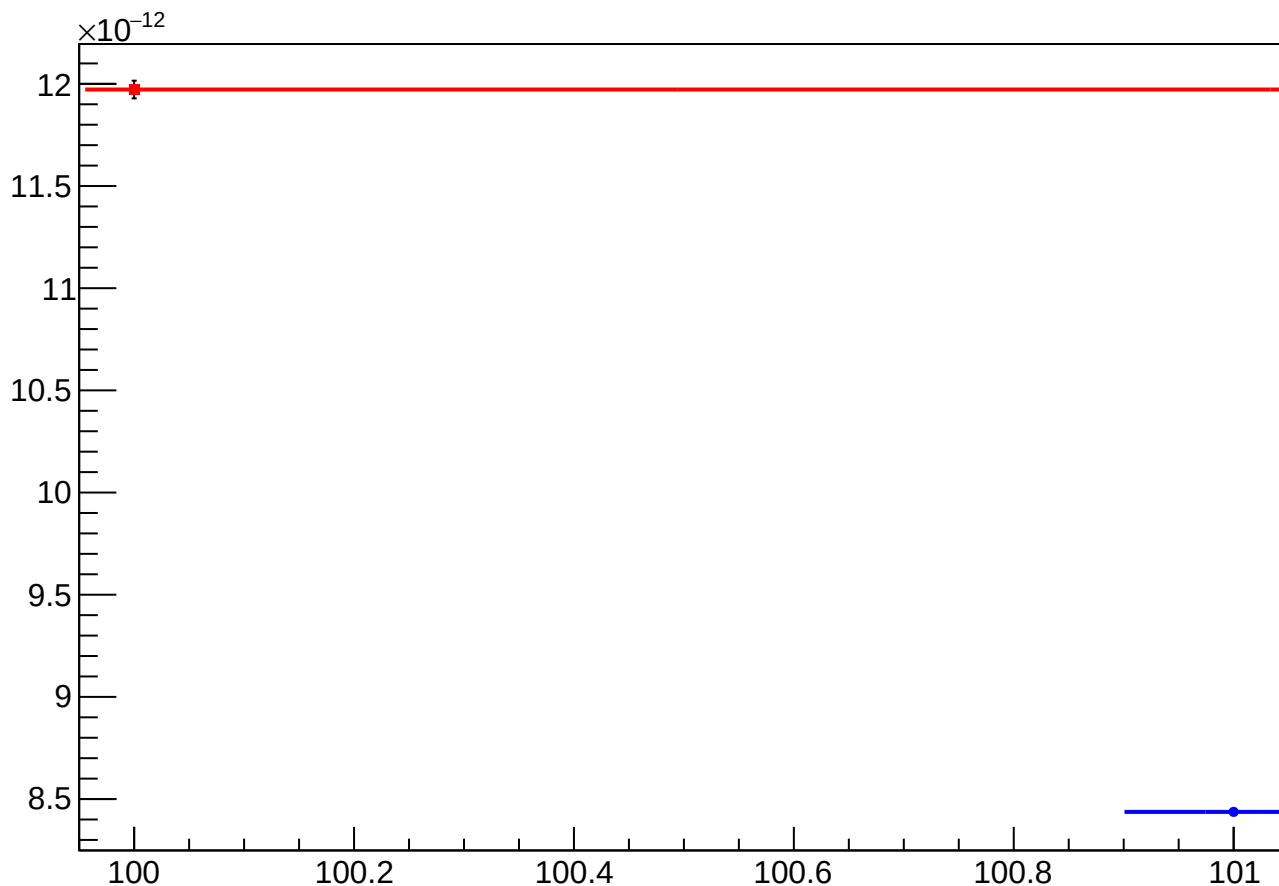
Right: -0.000+/-0.000  $\chi^2$ /NDF: 2.0/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 2.0/1

asym\_sam5\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

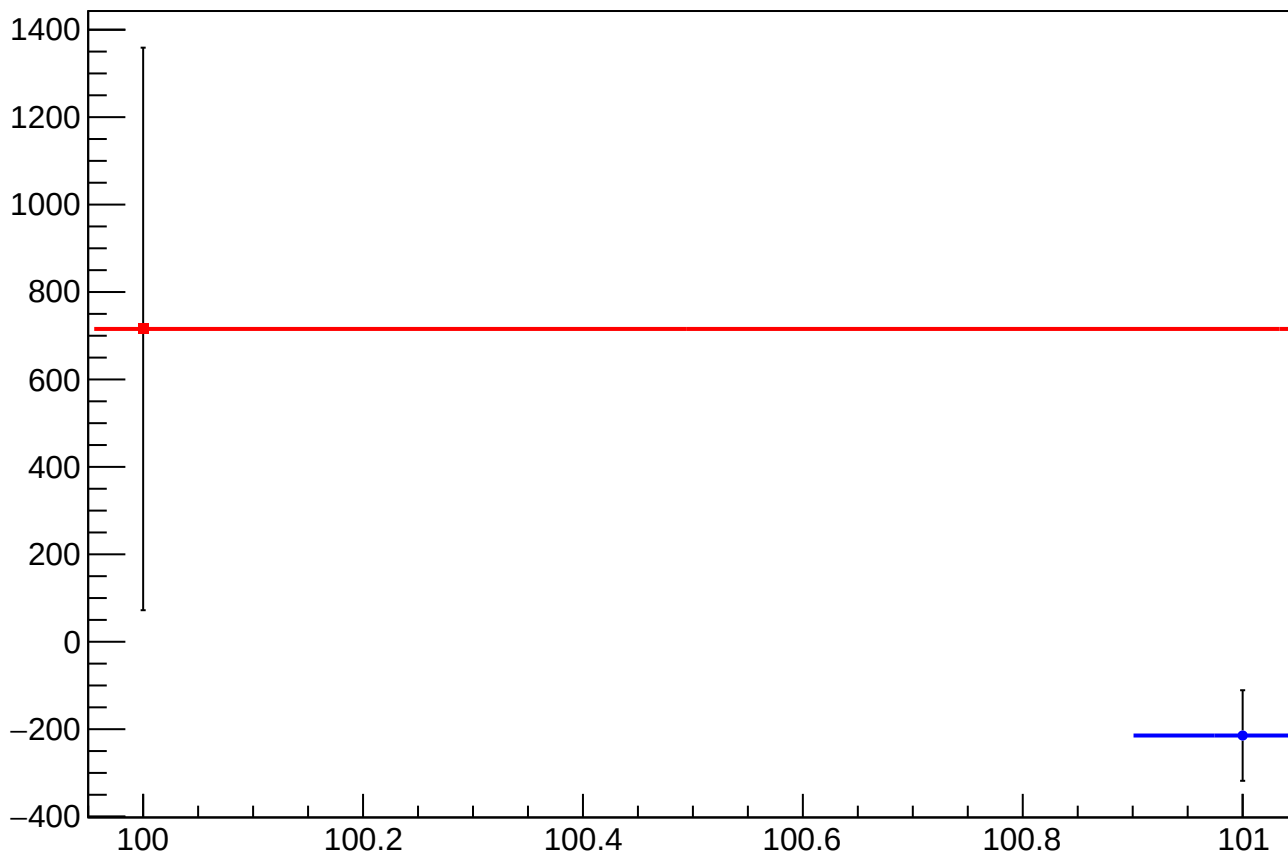
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6365.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6365.3/1

# reg\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -214.461+/-103.582  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 715.557+/-643.378  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

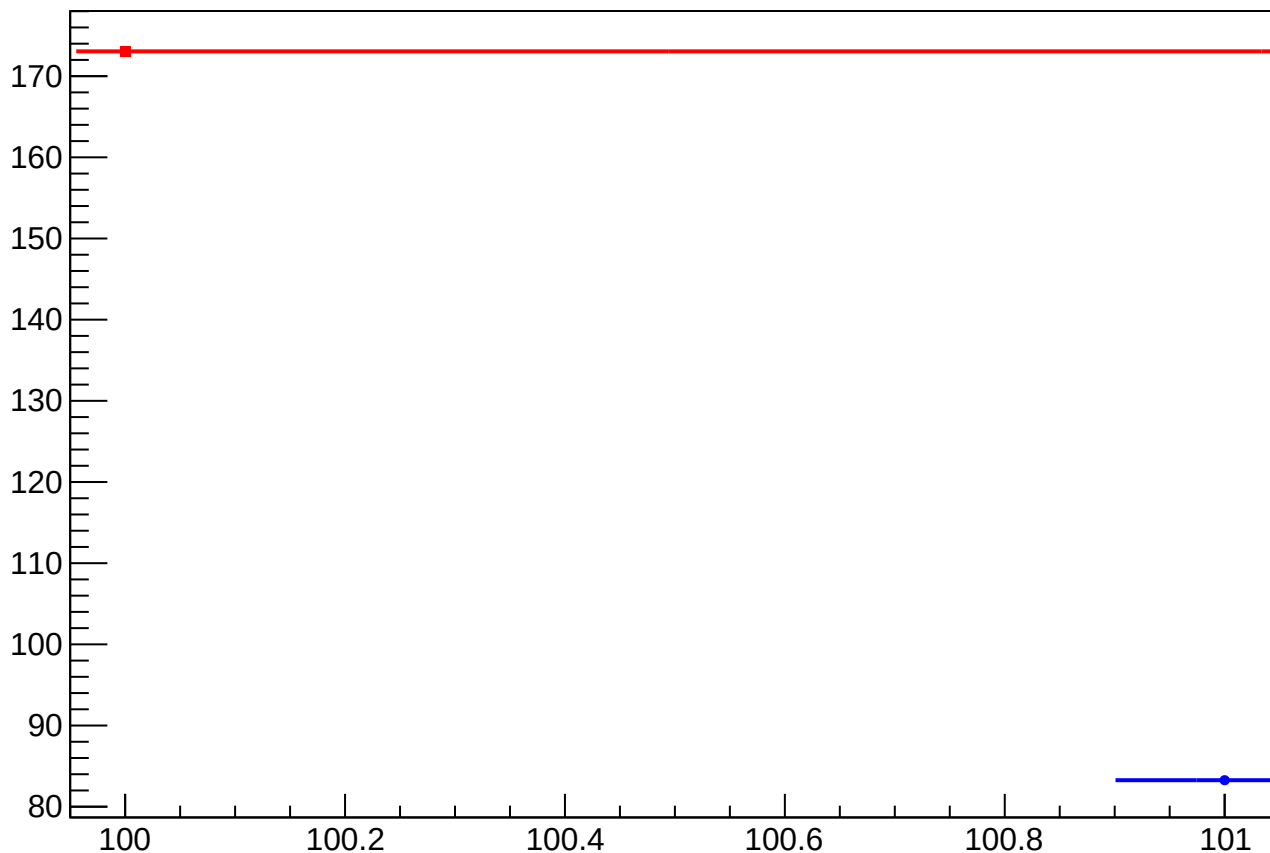
Right: -190.964+/-102.265  $\chi^2/\text{NDF}$ : 2.0/1

In: -214.461+/-103.582  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -190.964+/-102.265  $\chi^2/\text{NDF}$ : 2.0/1

# reg\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 83.265+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 173.054+/-0.455  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

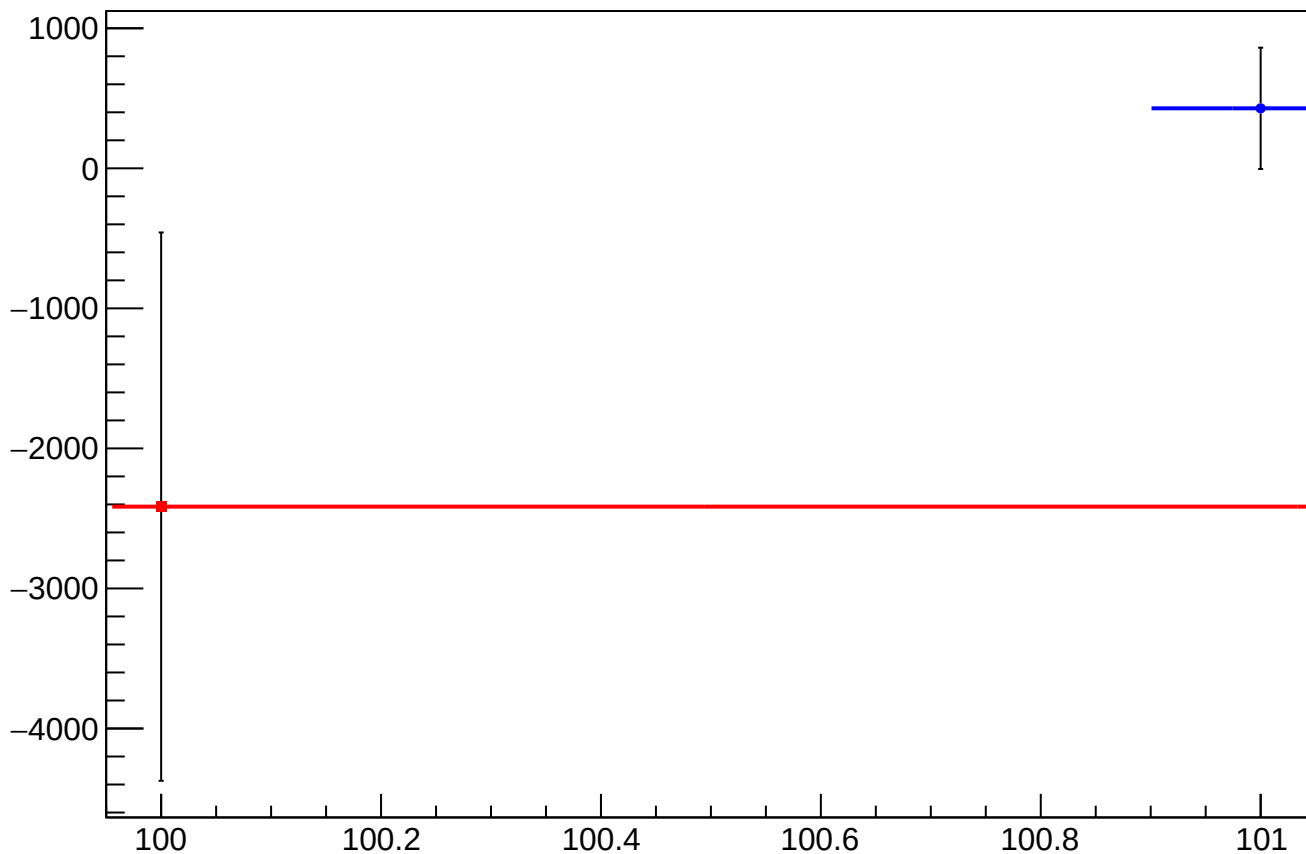
Right: 85.533+/-0.072  $\chi^2/\text{NDF}$ : 37969.4/1

In: 83.265+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.533+/-0.072  $\chi^2/\text{NDF}$ : 37969.4/1

asym\_sam6\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 428.422+/-433.118  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2415.736+/-1957.707  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

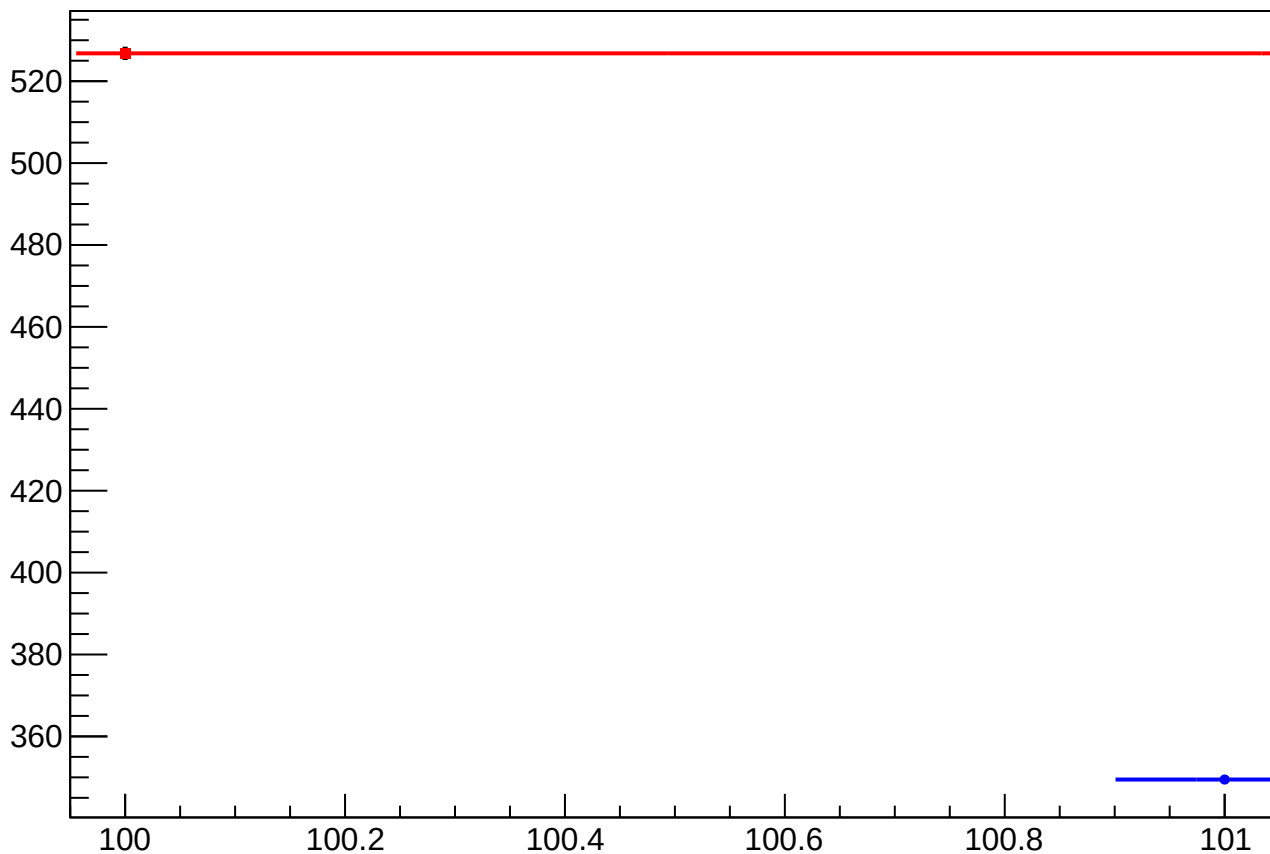
Right: 295.708+/-422.892  $\chi^2/\text{NDF}$ : 2.0/1

In: 428.422+/-433.118  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 295.708+/-422.892  $\chi^2/\text{NDF}$ : 2.0/1

asym\_sam6\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 349.467 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.800 $\pm$ 1.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

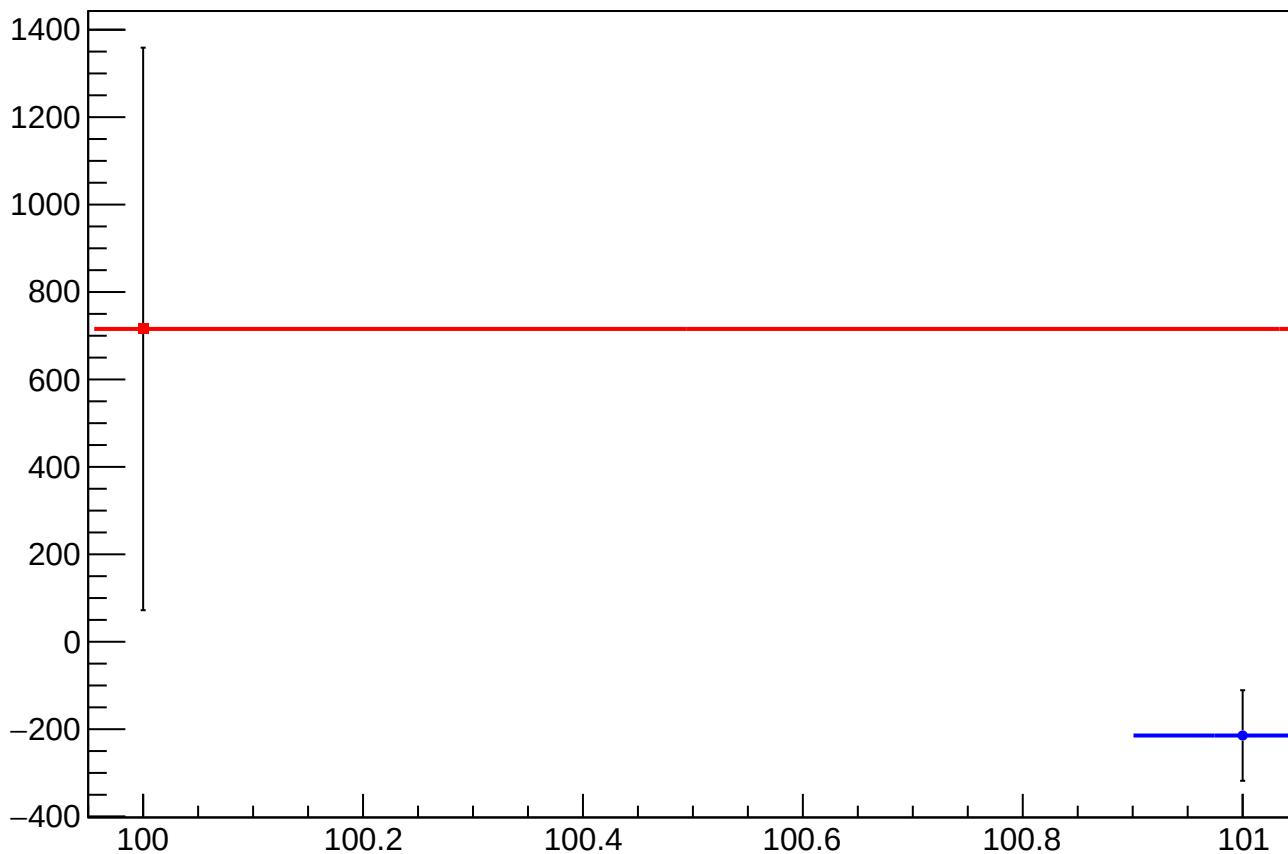
Right: 357.741 $\pm$ 0.299  $\chi^2$ /NDF: 15644.6/1

In: 349.467 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 357.741 $\pm$ 0.299  $\chi^2$ /NDF: 15644.6/1

# cor\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -214.454+/-103.582  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 715.566+/-643.378  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

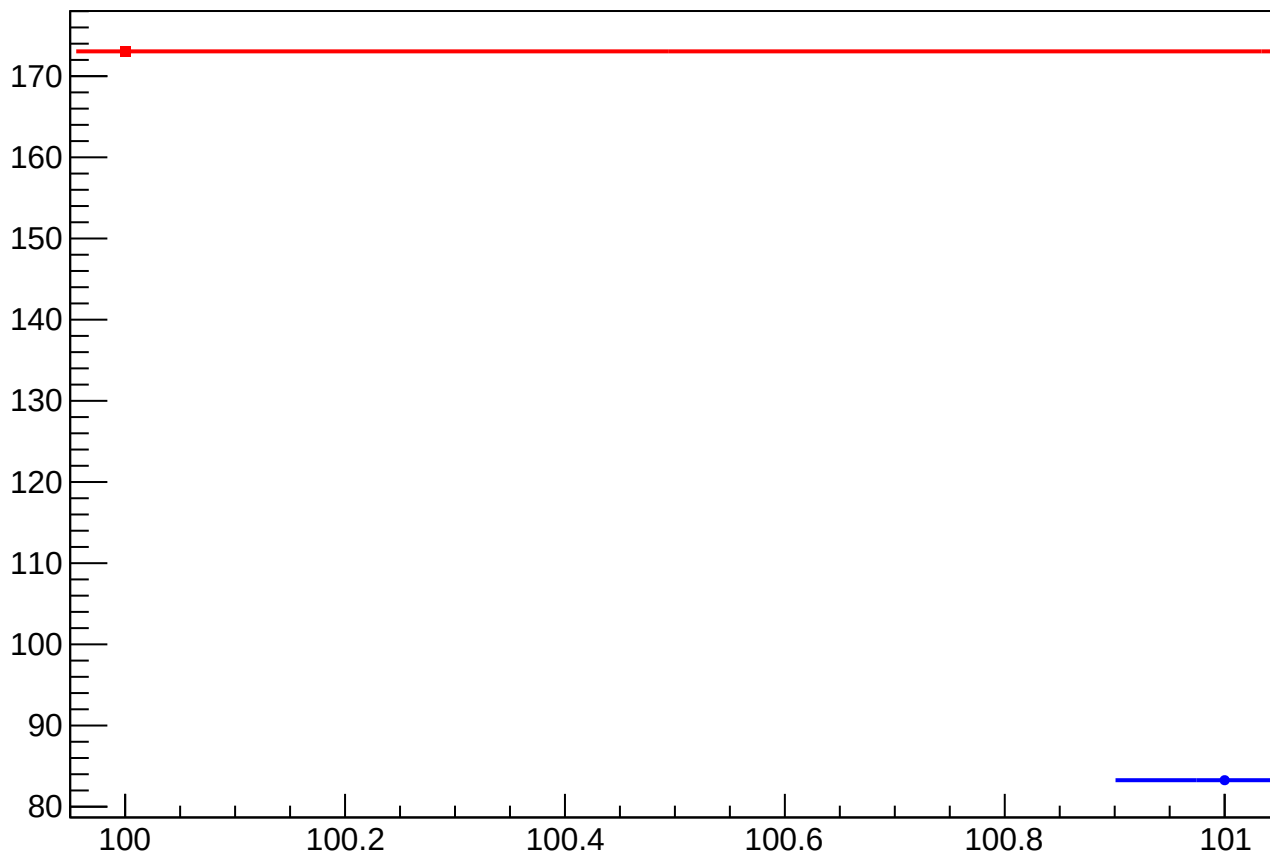
Right: -190.957+/-102.265  $\chi^2$ /NDF: 2.0/1

In: -214.454+/-103.582  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -190.957+/-102.265  $\chi^2$ /NDF: 2.0/1

# cor\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 83.265 $\pm$ 0.073  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 173.054 $\pm$ 0.455  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 85.533 $\pm$ 0.072  $\chi^2$ /NDF: 37969.4/1

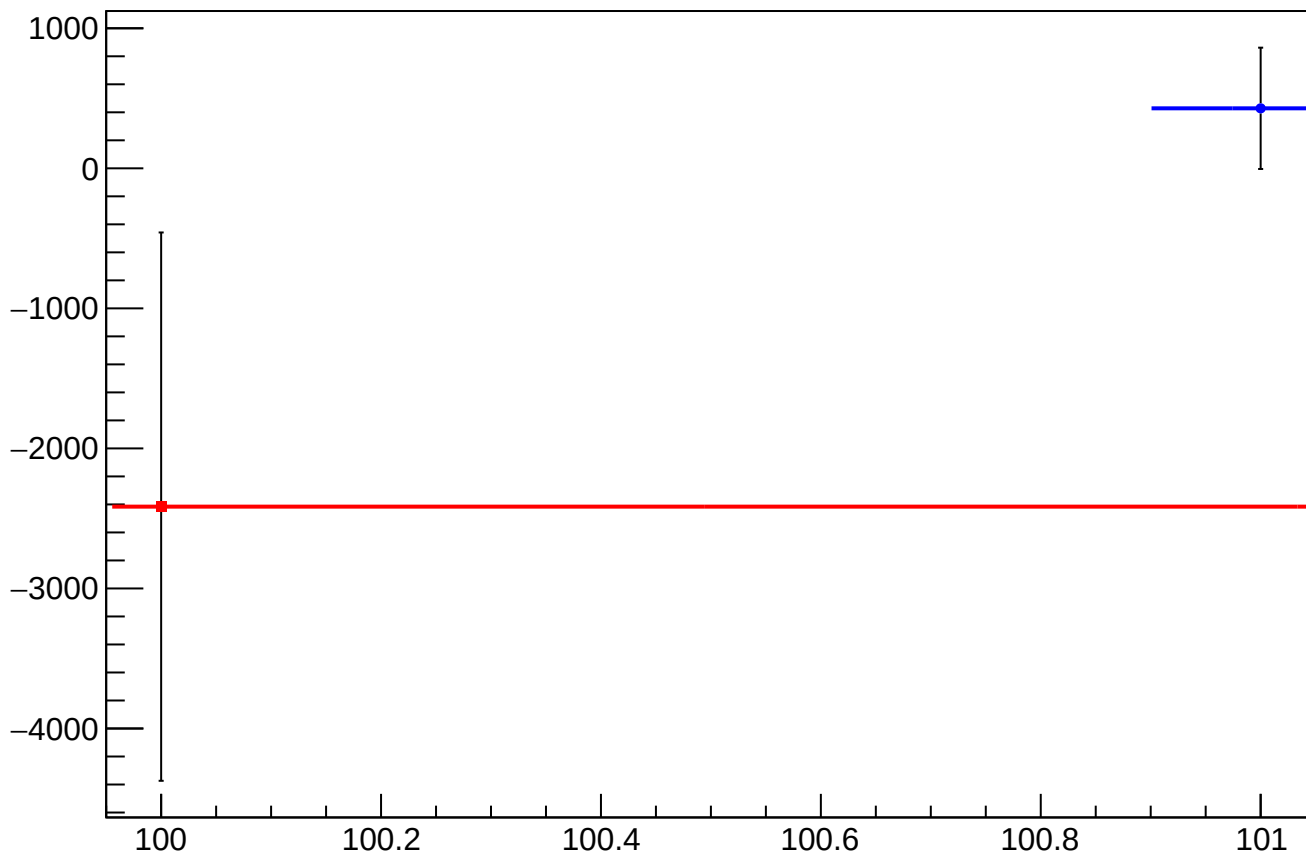
In: 83.265 $\pm$ 0.073  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 85.533 $\pm$ 0.072  $\chi^2$ /NDF: 37969.4/1



asym\_sam6\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 428.415+/-433.119  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2415.744+/-1957.703  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

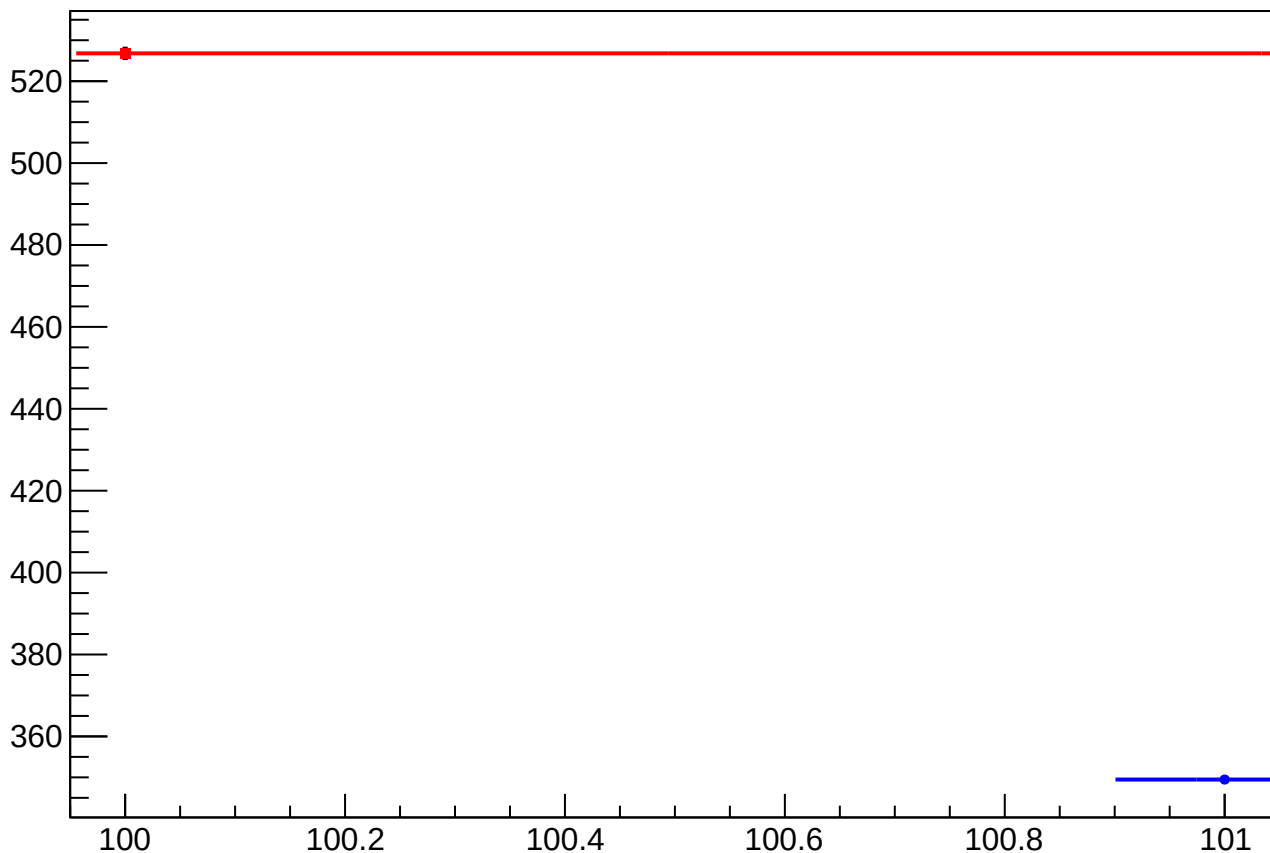
Right: 295.700+/-422.893  $\chi^2/\text{NDF}$ : 2.0/1

In: 428.415+/-433.119  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 295.700+/-422.893  $\chi^2/\text{NDF}$ : 2.0/1

asym\_sam6\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 349.467 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.799 $\pm$ 1.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

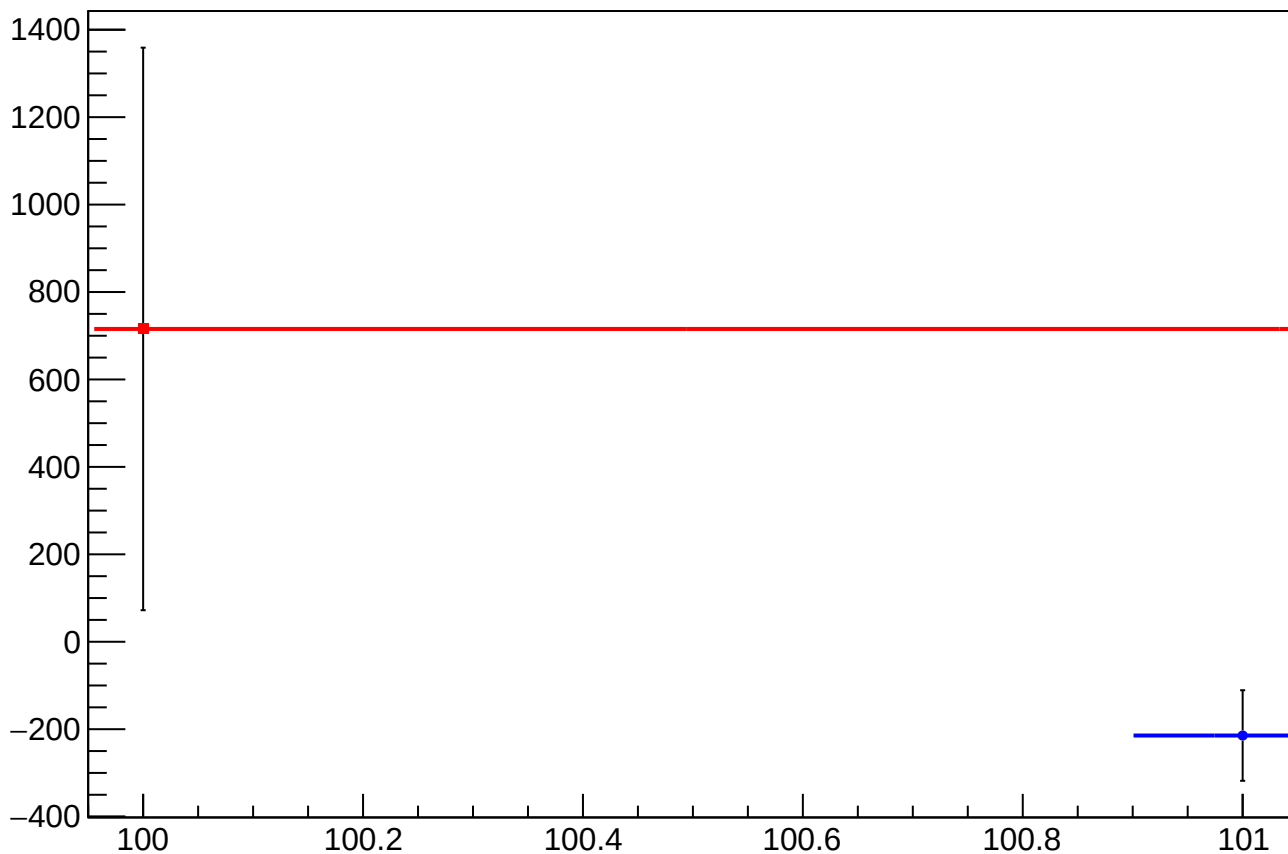
Right: 357.742 $\pm$ 0.299  $\chi^2$ /NDF: 15644.3/1

In: 349.467 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 357.742 $\pm$ 0.299  $\chi^2$ /NDF: 15644.3/1

eigen\_cor\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -214.454+/-103.582  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 715.566+/-643.378  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

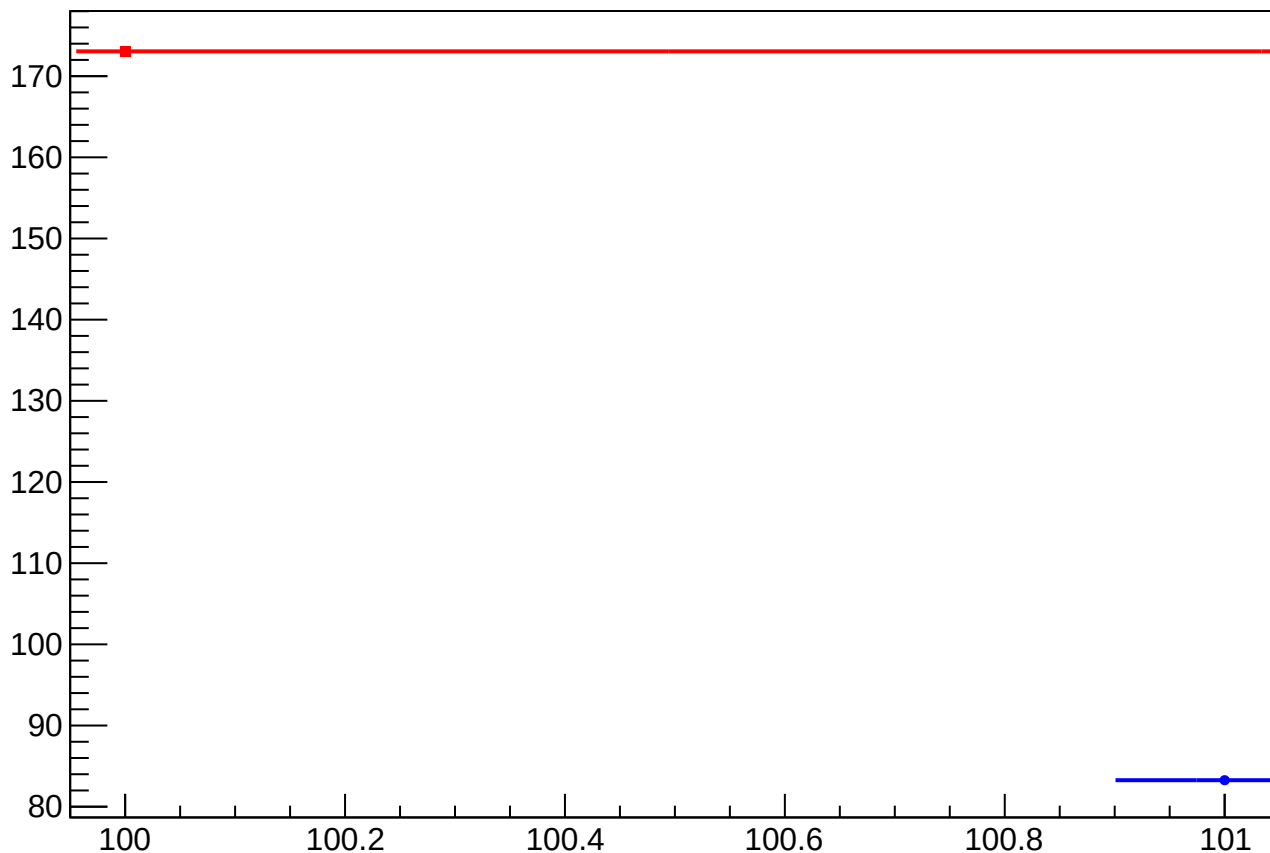
Right: -190.957+/-102.265  $\chi^2/\text{NDF}$ : 2.0/1

In: -214.454+/-103.582  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -190.957+/-102.265  $\chi^2/\text{NDF}$ : 2.0/1

# eigen\_cor\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 83.265+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 173.054+/-0.455  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

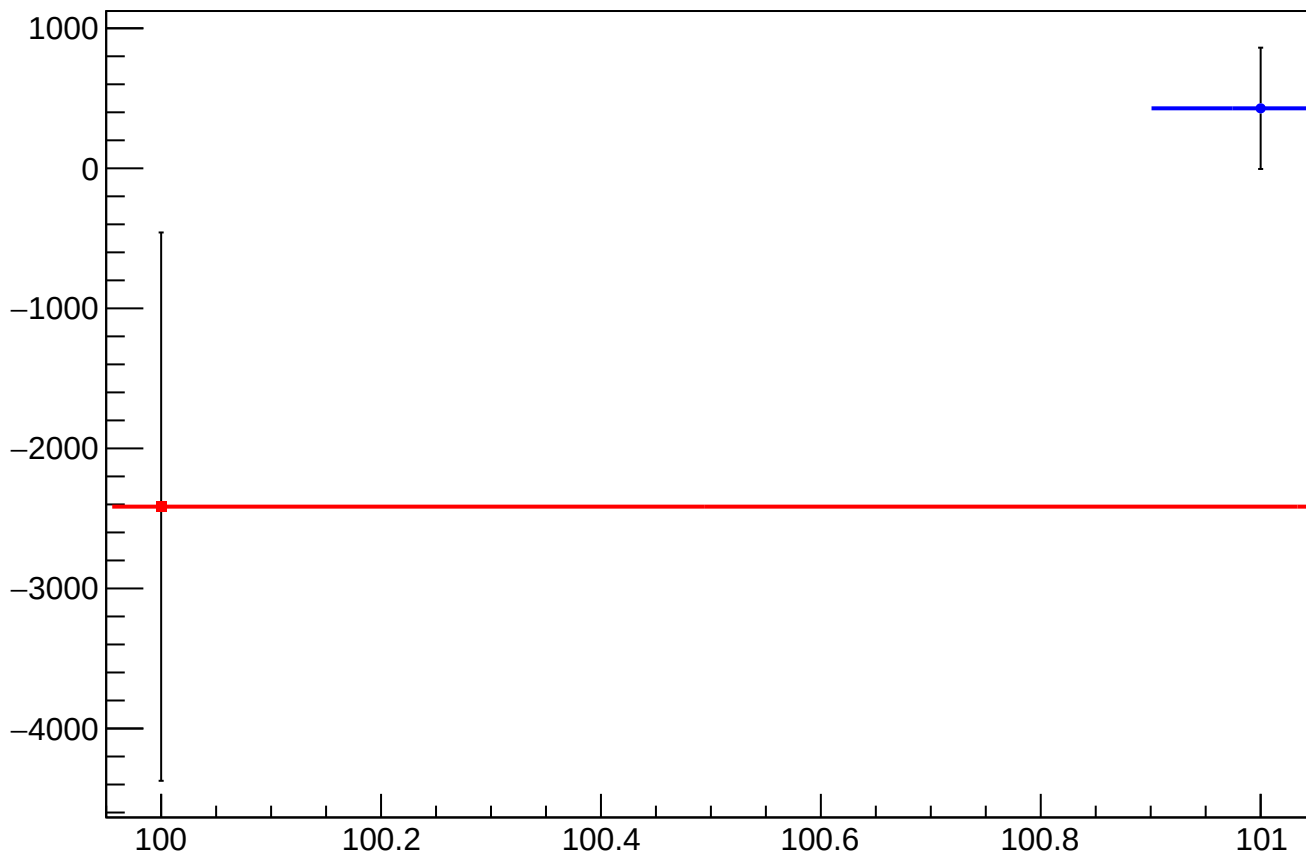
Right: 85.533+/-0.072  $\chi^2/\text{NDF}$ : 37969.4/1

In: 83.265+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.533+/-0.072  $\chi^2/\text{NDF}$ : 37969.4/1

asym\_sam6\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 428.415+/-433.119  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2415.744+/-1957.703  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

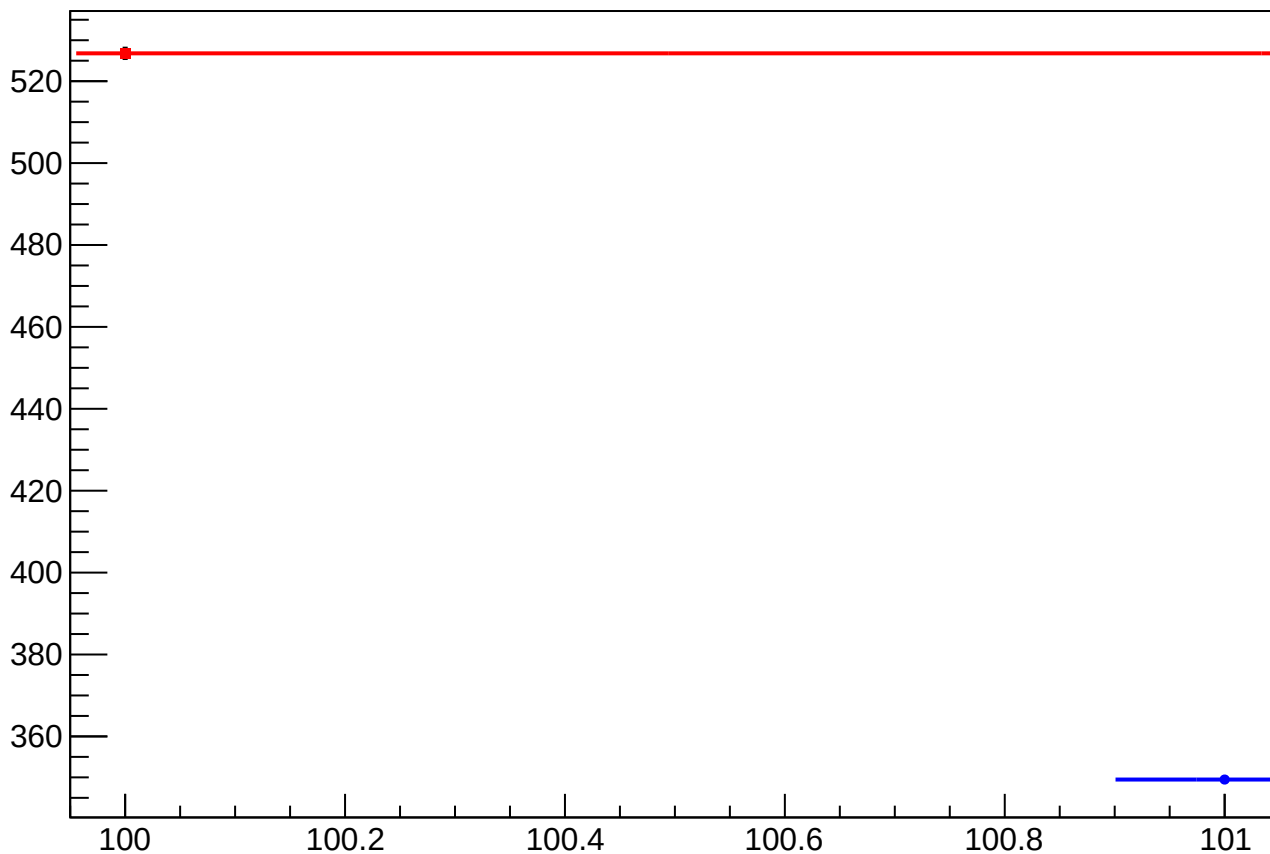
Right: 295.700+/-422.893  $\chi^2/\text{NDF}$ : 2.0/1

In: 428.415+/-433.119  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 295.700+/-422.893  $\chi^2/\text{NDF}$ : 2.0/1

asym\_sam6\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 349.467 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 526.799 $\pm$ 1.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

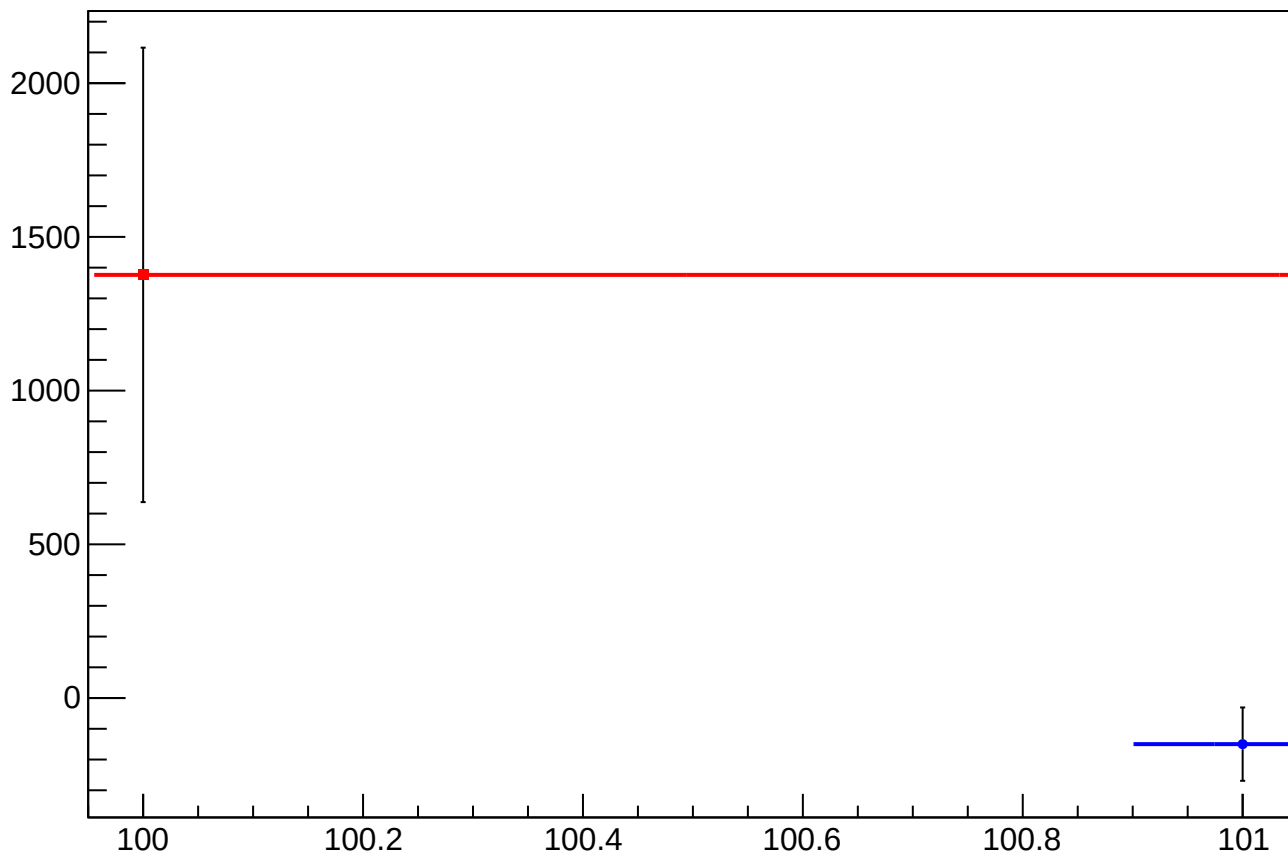
Right: 357.742 $\pm$ 0.299  $\chi^2$ /NDF: 15644.3/1

In: 349.467 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 357.742 $\pm$ 0.299  $\chi^2$ /NDF: 15644.3/1

# dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -149.886+/-119.276  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1376.433+/-739.073  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

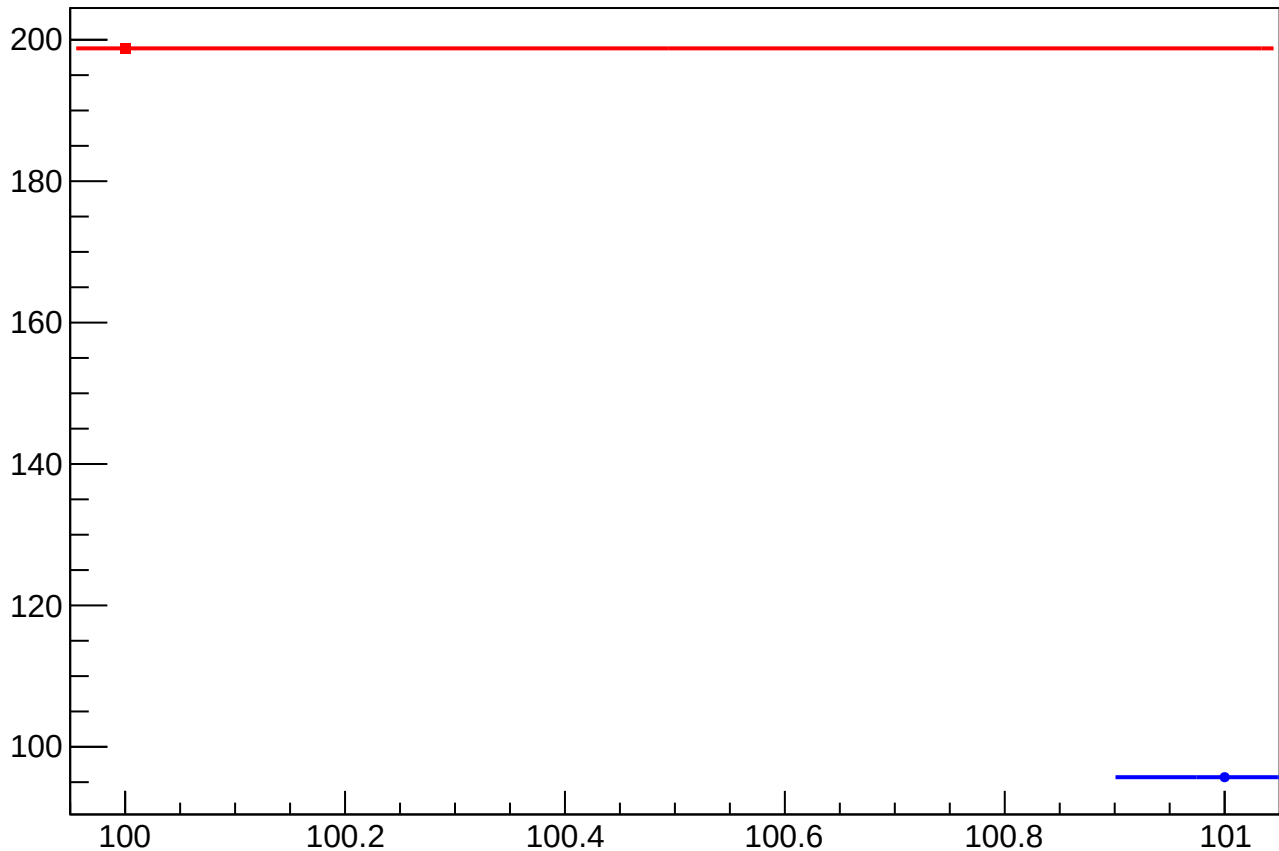
Right: -111.142+/-117.752  $\chi^2/\text{NDF}$ : 4.2/1

In: -149.886+/-119.276  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -111.142+/-117.752  $\chi^2/\text{NDF}$ : 4.2/1

# dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 95.703+/-0.084  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 198.787+/-0.523  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 98.320+/-0.083  $\chi^2/\text{NDF}$ : 37920.4/1

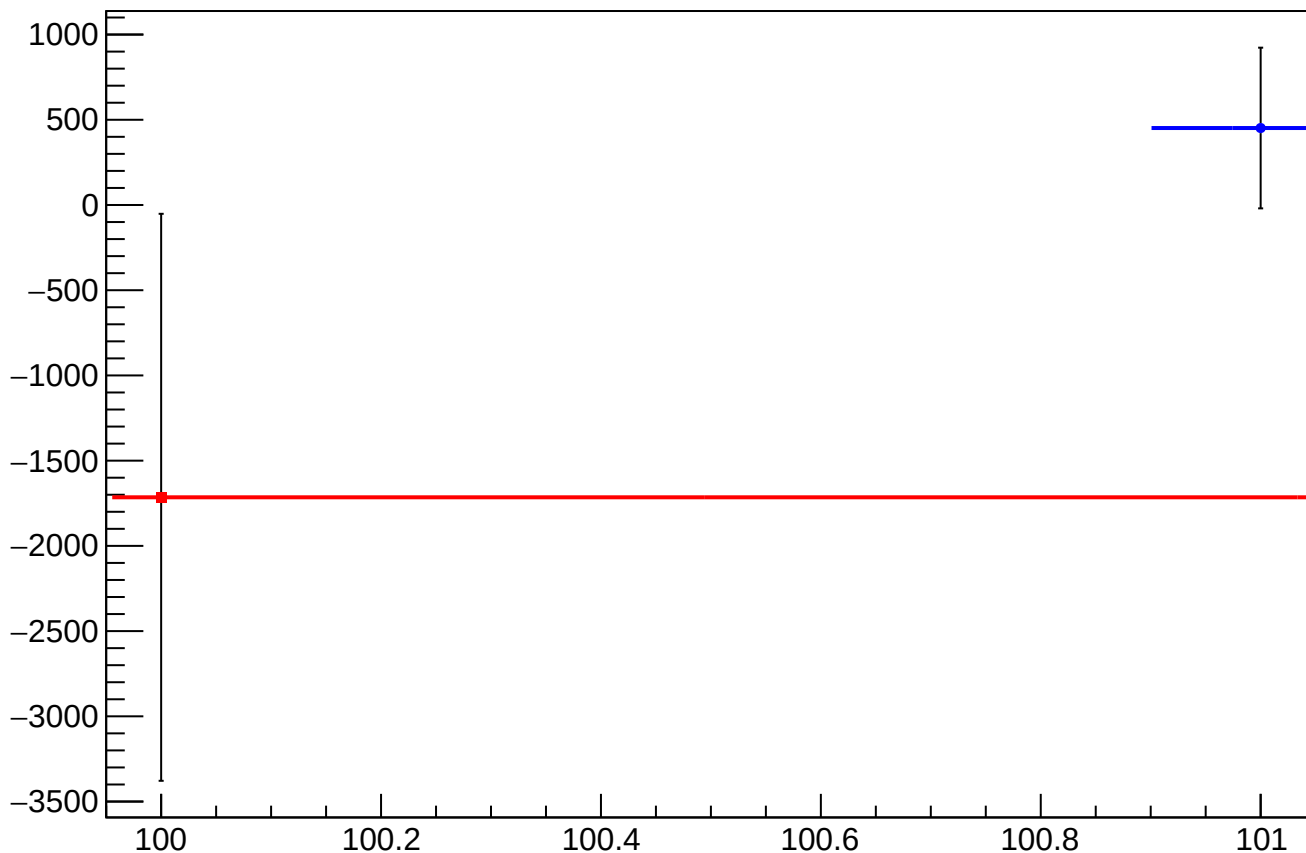
In: 95.703+/-0.084  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 98.320+/-0.083  $\chi^2/\text{NDF}$ : 37920.4/1



asym\_sam6\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 451.582 $\pm$ 471.447  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1715.012 $\pm$ 1663.295  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

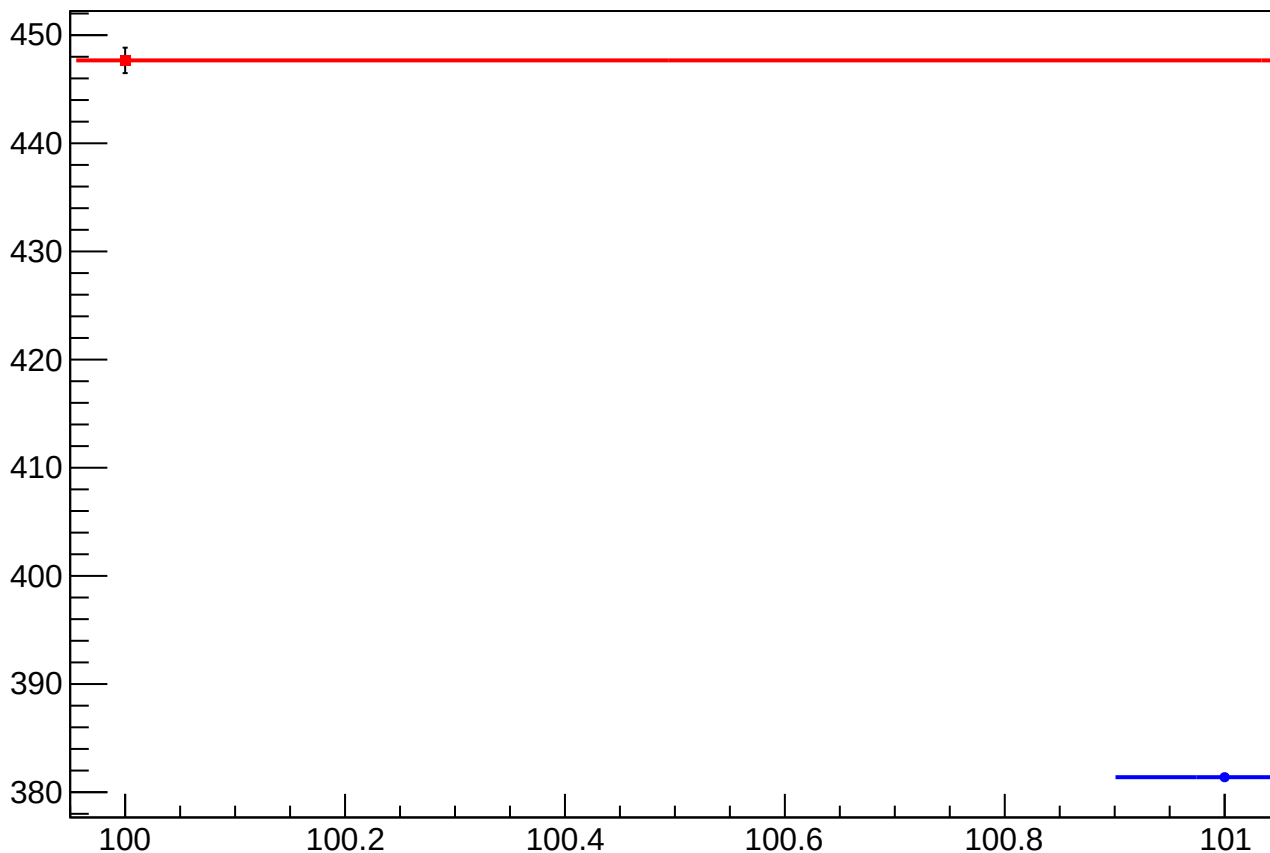
Right: 290.463 $\pm$ 453.579  $\chi^2$ /NDF: 1.6/1

In: 451.582 $\pm$ 471.447  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 290.463 $\pm$ 453.579  $\chi^2$ /NDF: 1.6/1

asym\_sam6\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 381.387 $\pm$ 0.333  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 447.666 $\pm$ 1.176  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

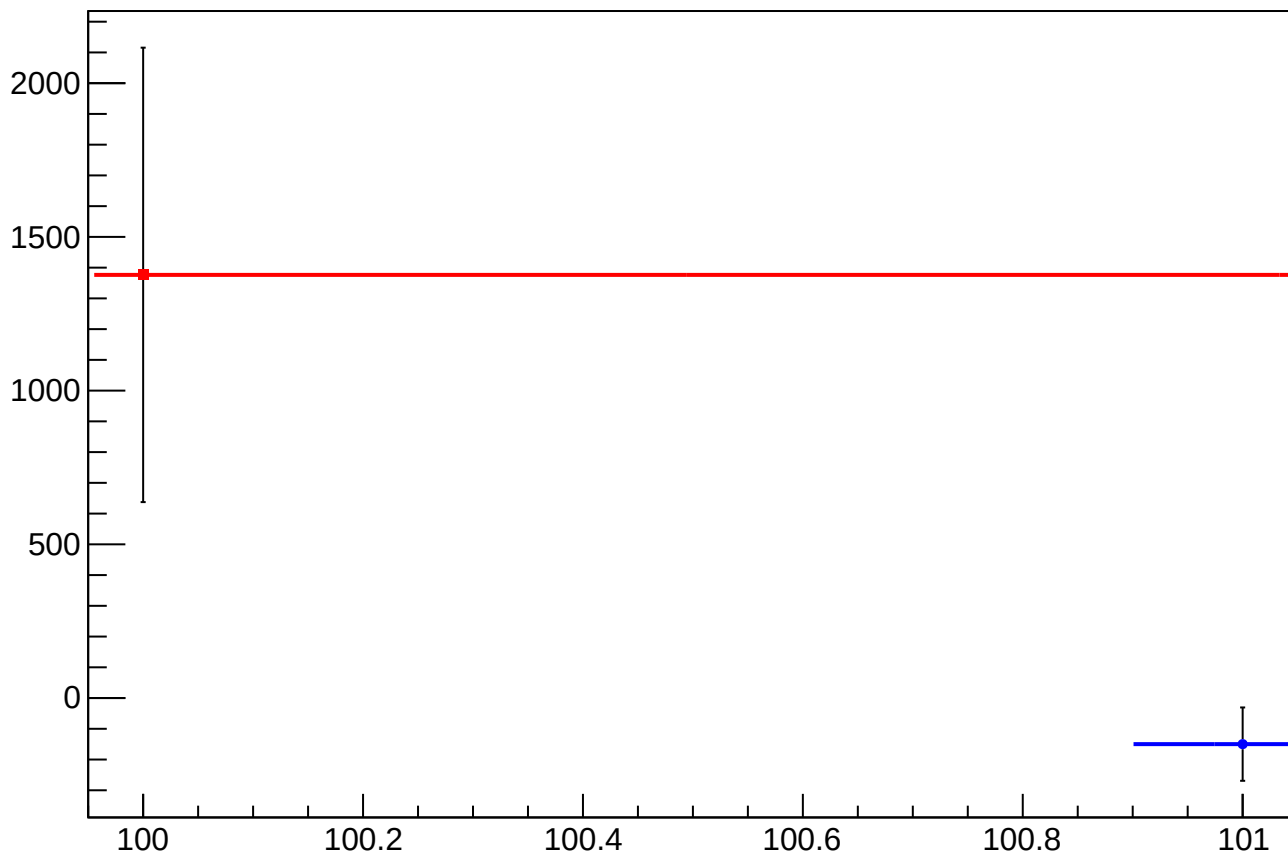
Right: 386.316 $\pm$ 0.321  $\chi^2$ /NDF: 2939.5/1

In: 381.387 $\pm$ 0.333  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 386.316 $\pm$ 0.321  $\chi^2$ /NDF: 2939.5/1

eigen\_dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -149.888 $\pm$ 119.275  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1376.438 $\pm$ 739.074  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

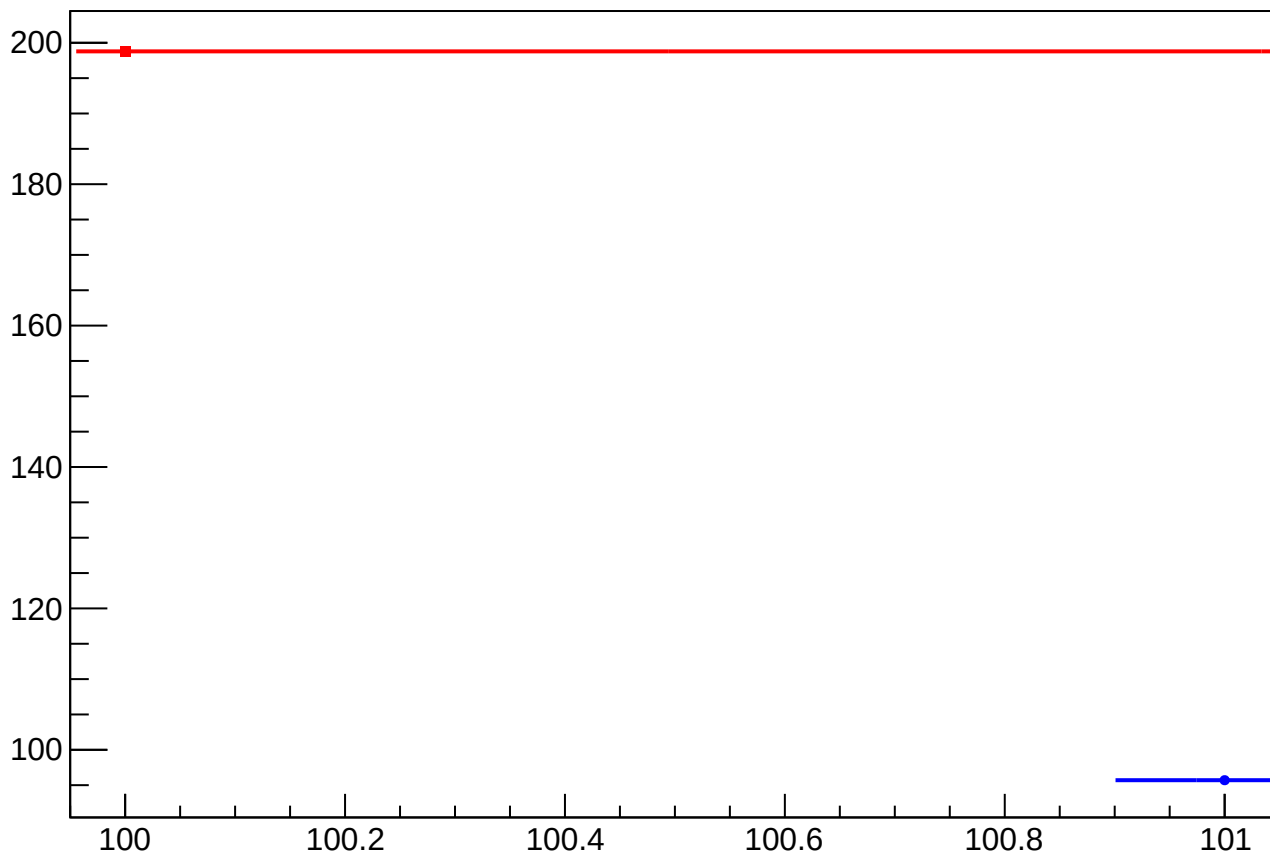
Right: -111.144 $\pm$ 117.751  $\chi^2$ /NDF: 4.2/1

In: -149.888 $\pm$ 119.275  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -111.144 $\pm$ 117.751  $\chi^2$ /NDF: 4.2/1

# eigen\_dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 95.702 $\pm$ 0.084  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 198.787 $\pm$ 0.523  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

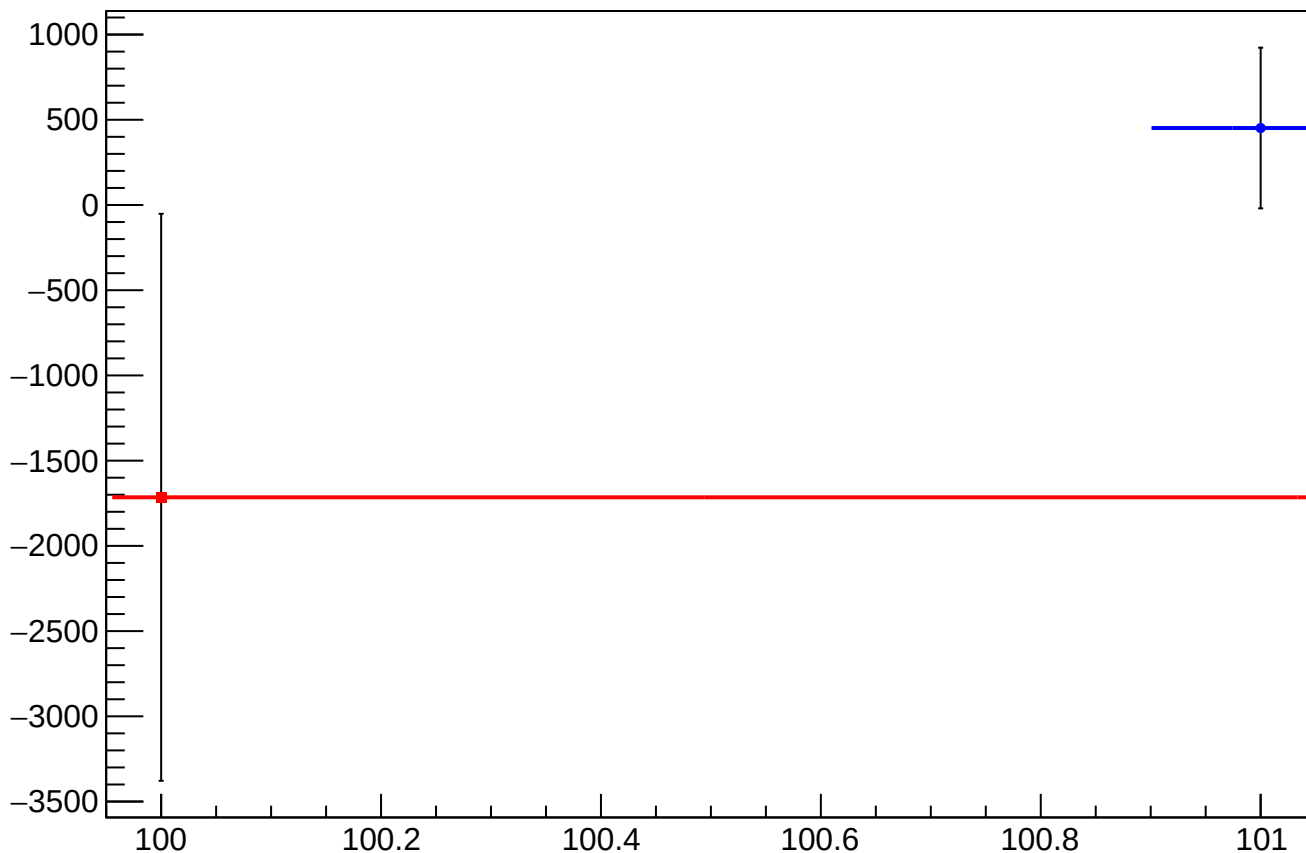
Right: 98.319 $\pm$ 0.083  $\chi^2$ /NDF: 37921.0/1

In: 95.702 $\pm$ 0.084  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 98.319 $\pm$ 0.083  $\chi^2$ /NDF: 37921.0/1

asym\_sam6\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 451.581+/-471.446  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1715.007+/-1663.291  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

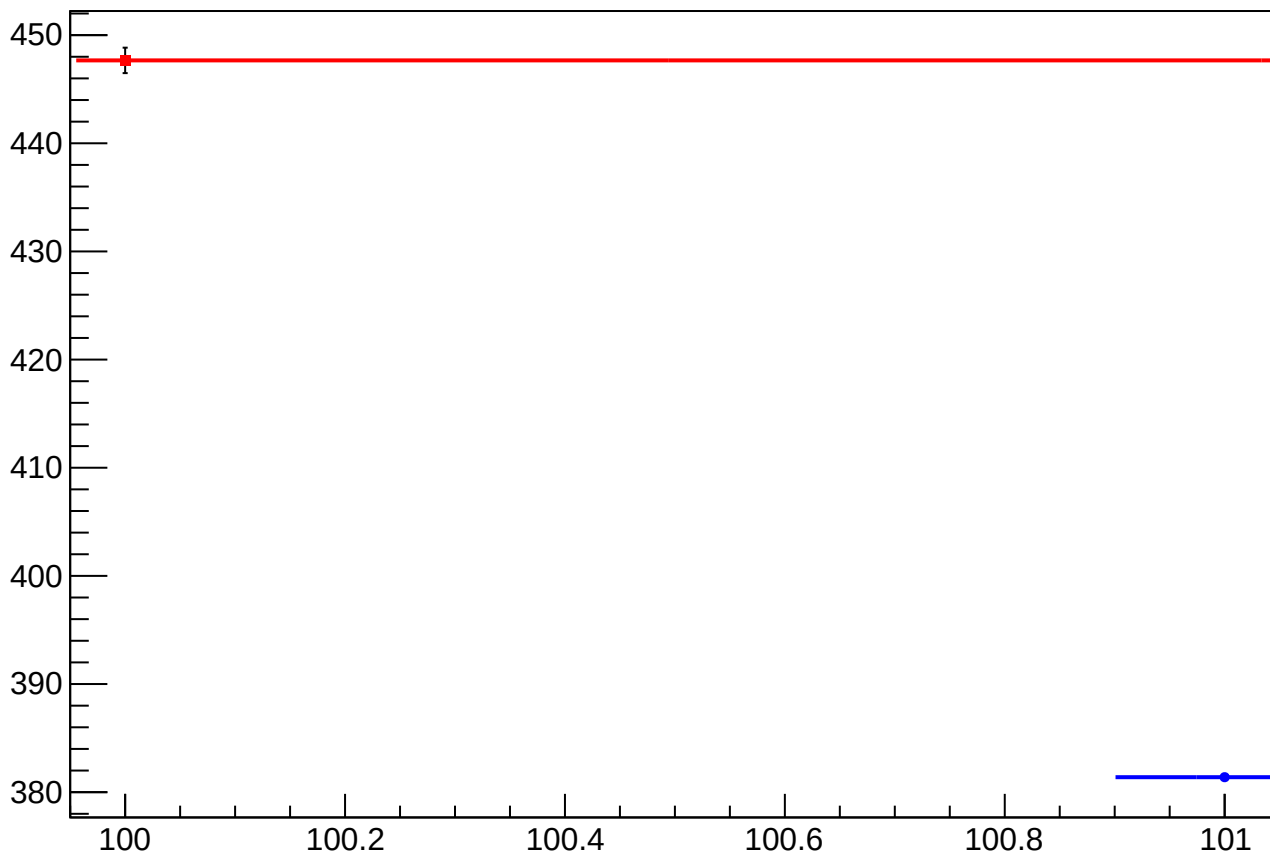
Right: 290.463+/-453.578  $\chi^2/\text{NDF}$ : 1.6/1

In: 451.581+/-471.446  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 290.463+/-453.578  $\chi^2/\text{NDF}$ : 1.6/1

asym\_sam6\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 381.386 $\pm$ 0.333  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 447.665 $\pm$ 1.176  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

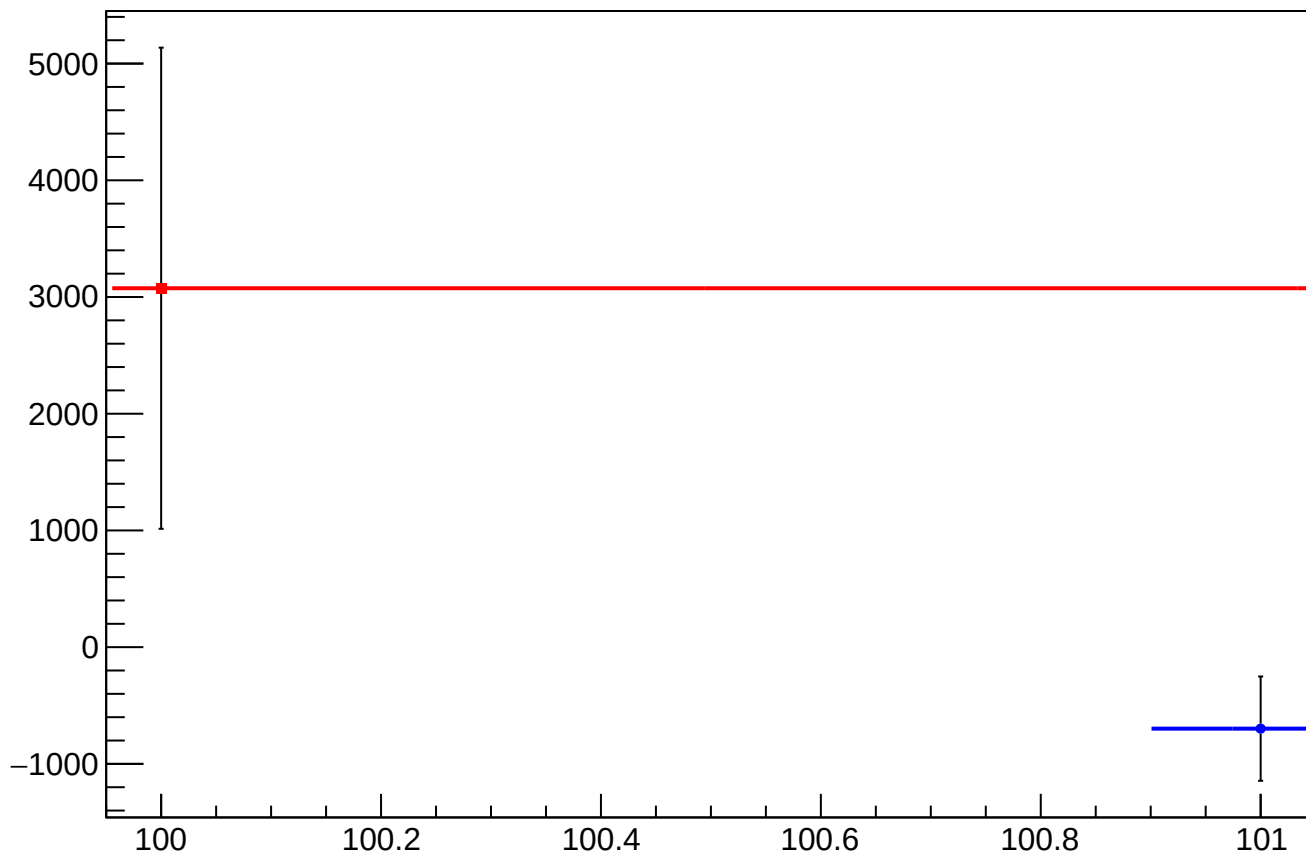
Right: 386.315 $\pm$ 0.321  $\chi^2$ /NDF: 2939.5/1

In: 381.386 $\pm$ 0.333  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 386.315 $\pm$ 0.321  $\chi^2$ /NDF: 2939.5/1

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -698.192 $\pm$ 446.819  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3075.196 $\pm$ 2061.155  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

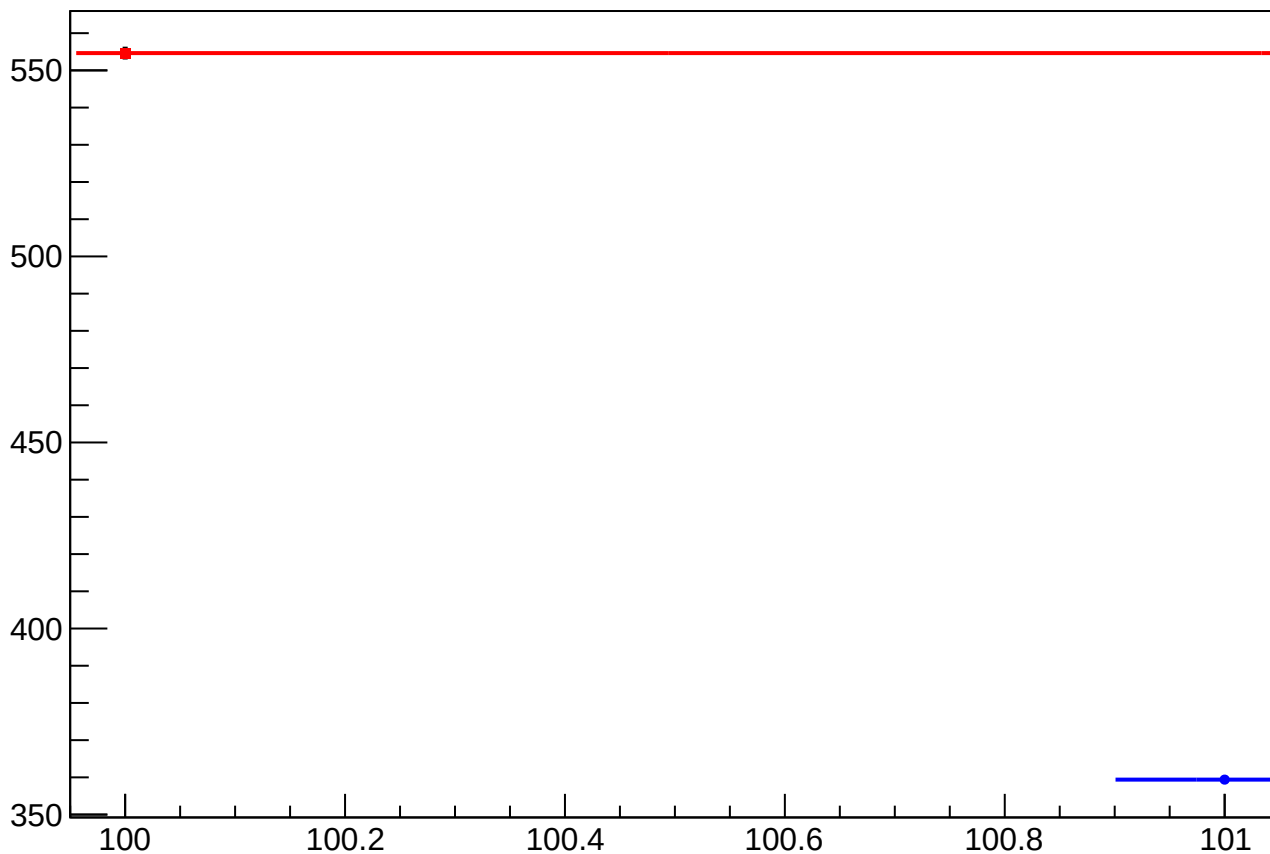
Right: -528.825 $\pm$ 436.676  $\chi^2/\text{NDF}$ : 3.2/1

In: -698.192 $\pm$ 446.819  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -528.825 $\pm$ 436.676  $\chi^2/\text{NDF}$ : 3.2/1

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 359.392 $\pm$ 0.316  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 554.644 $\pm$ 1.457  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 368.156 $\pm$ 0.309  $\chi^2$ /NDF: 17141.9/1

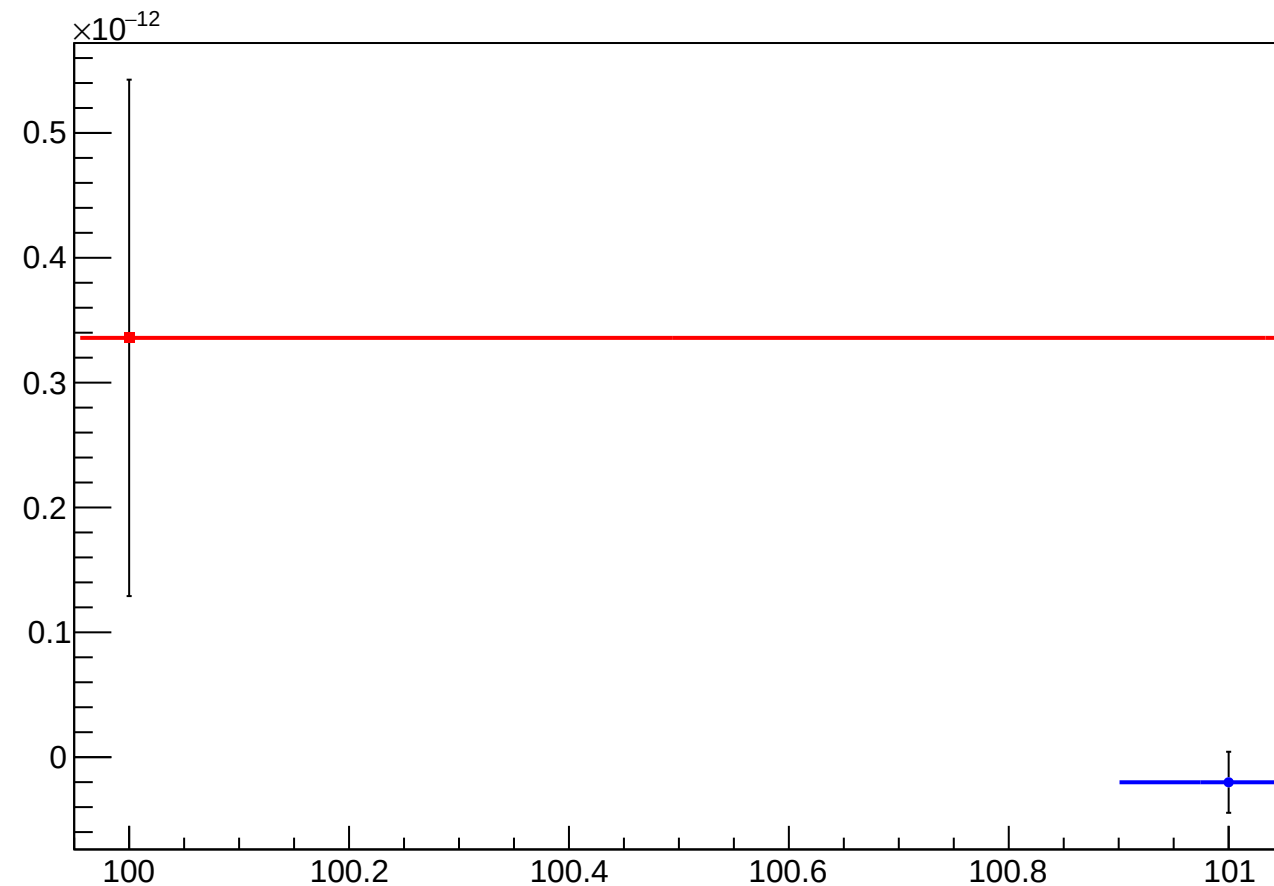
In: 359.392 $\pm$ 0.316  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 368.156 $\pm$ 0.309  $\chi^2$ /NDF: 17141.9/1



asym\_sam6\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

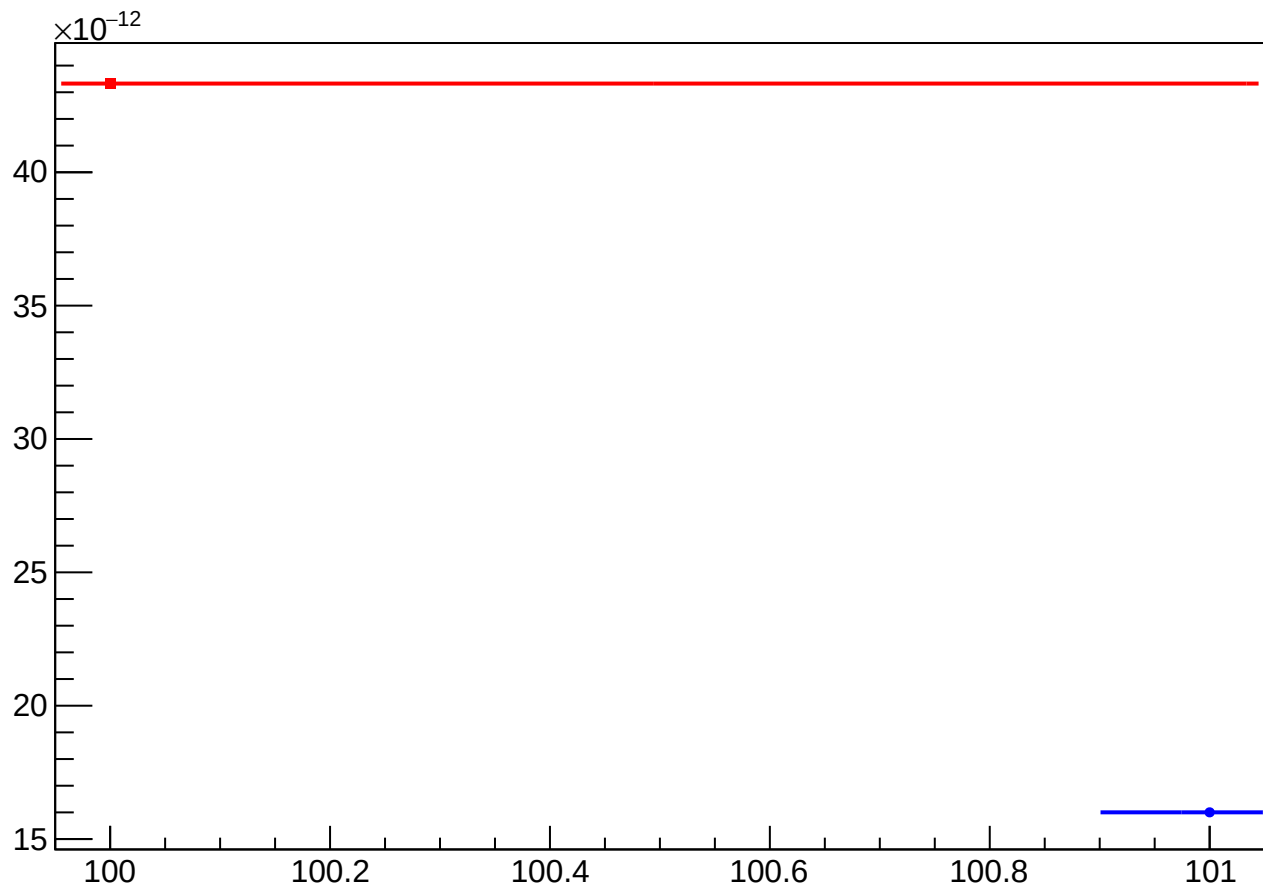
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/1

asym\_sam6\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

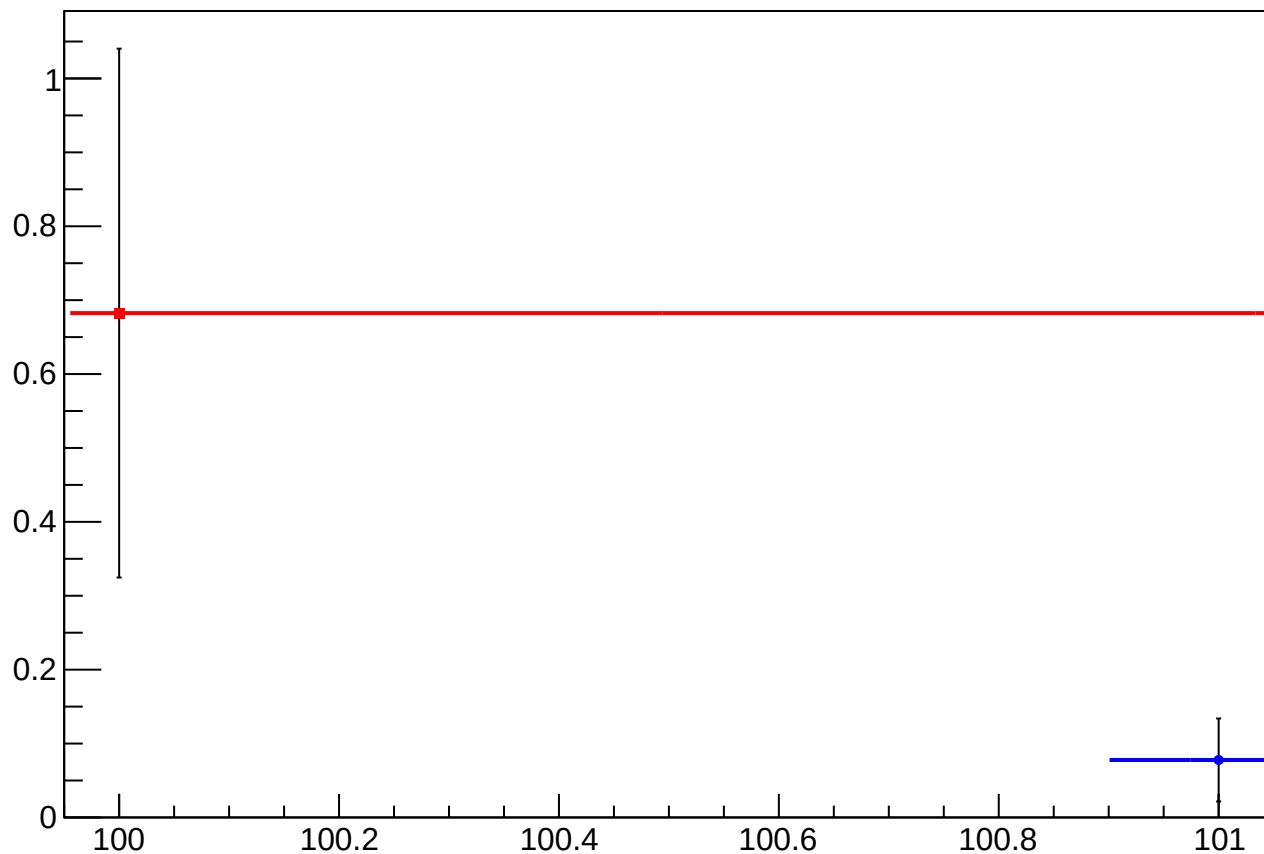
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 34425.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 34425.4/1

asym\_sam6\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.078+/-0.056  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.683+/-0.358  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

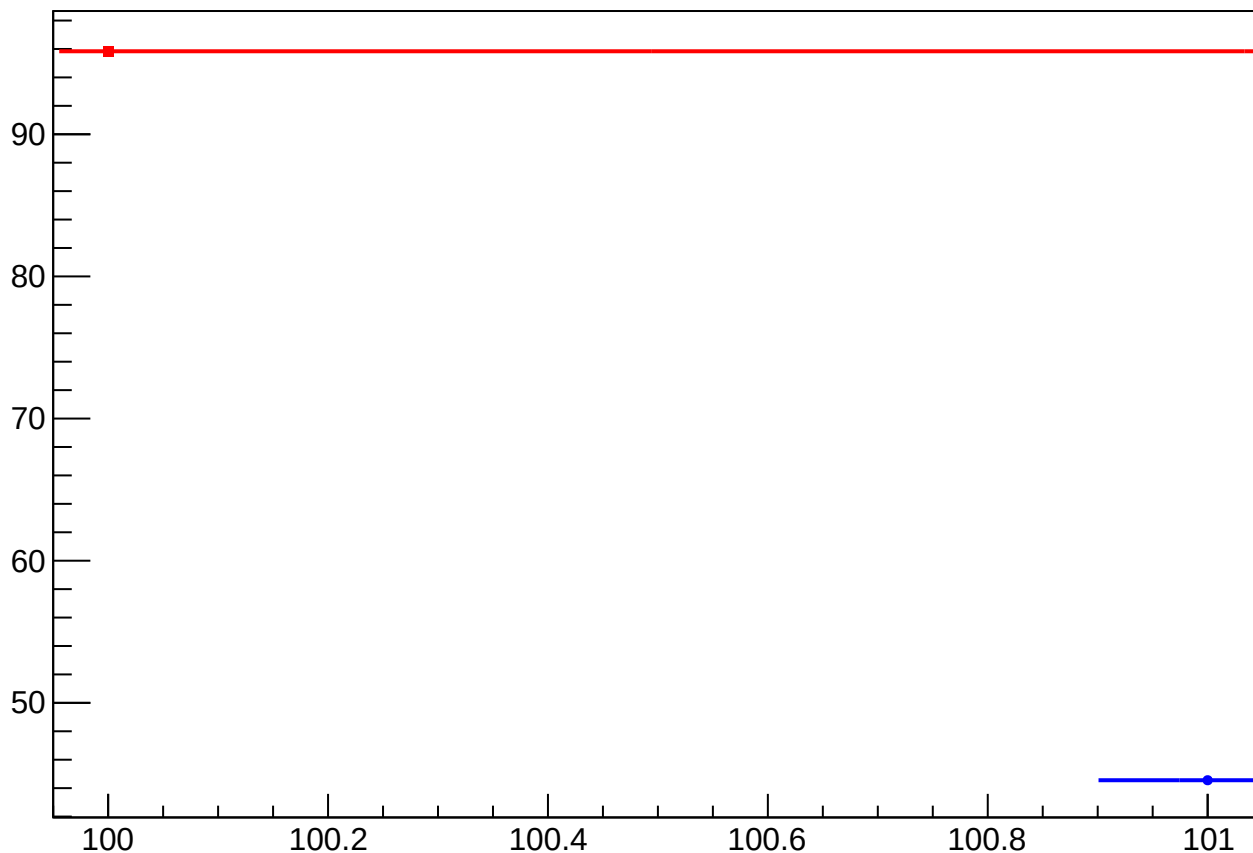
Right: 0.092+/-0.055  $\chi^2/\text{NDF}$ : 2.8/1

In: 0.078+/-0.056  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.092+/-0.055  $\chi^2/\text{NDF}$ : 2.8/1

asym\_sam6\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 44.556 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 95.839 $\pm$ 0.253  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

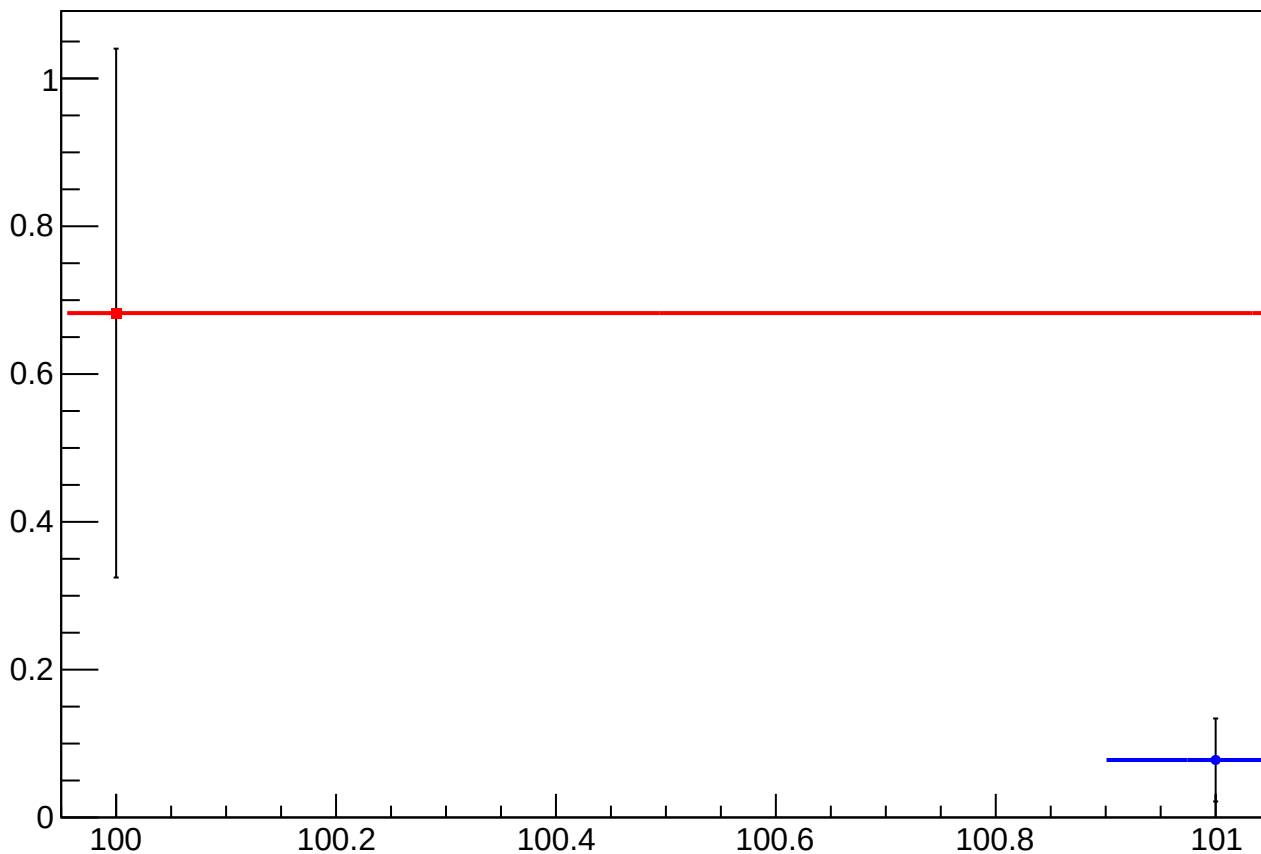
Right: 45.789 $\pm$ 0.039  $\chi^2$ /NDF: 40092.3/1

In: 44.556 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 45.789 $\pm$ 0.039  $\chi^2$ /NDF: 40092.3/1

asym\_sam6\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.078 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.683 $\pm$ 0.358  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.092 $\pm$ 0.055  $\chi^2$ /NDF: 2.8/1

In: 0.078 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.092 $\pm$ 0.055  $\chi^2$ /NDF: 2.8/1

asym\_sam6\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 44.556 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 95.839 $\pm$ 0.253  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

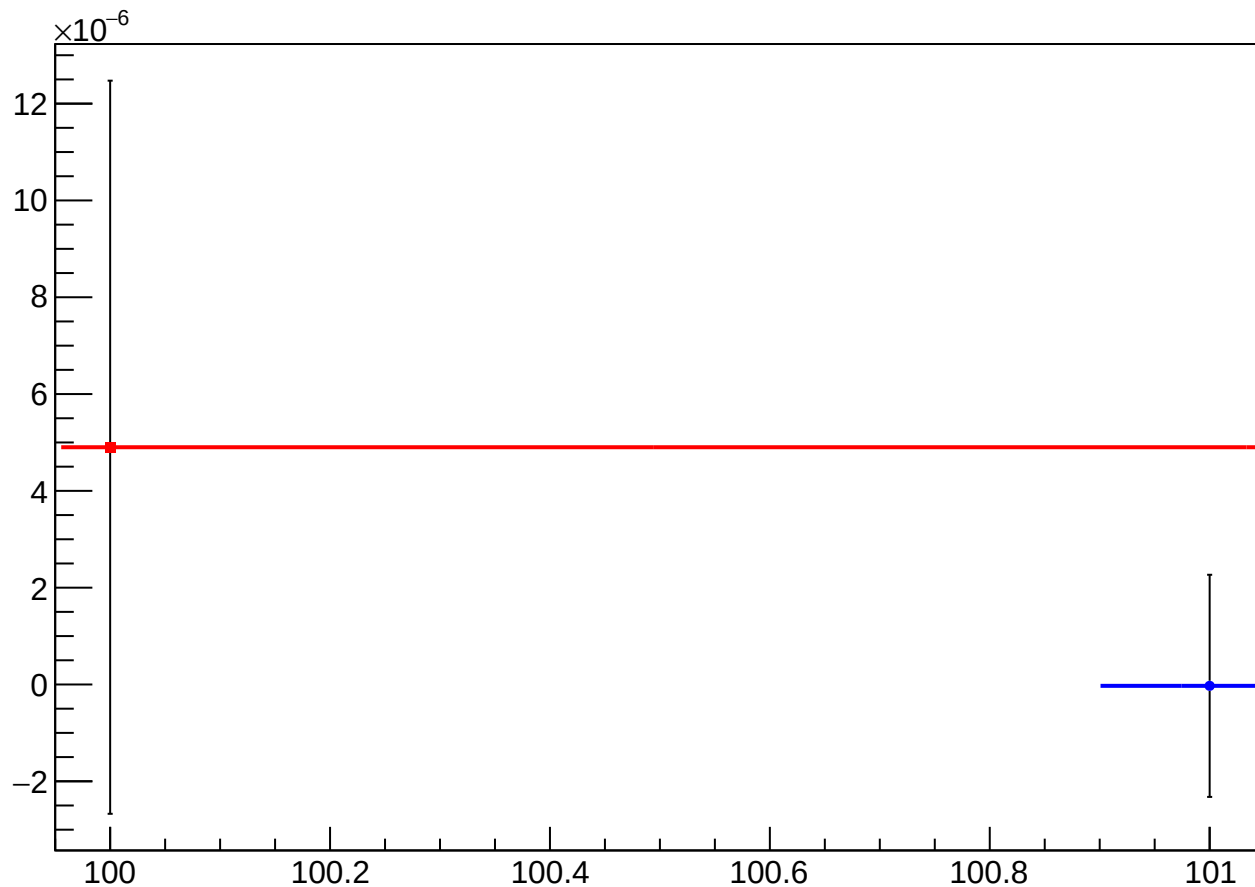
Right: 45.789 $\pm$ 0.039  $\chi^2$ /NDF: 40092.3/1

In: 44.556 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 45.789 $\pm$ 0.039  $\chi^2$ /NDF: 40092.3/1

asym\_sam6\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

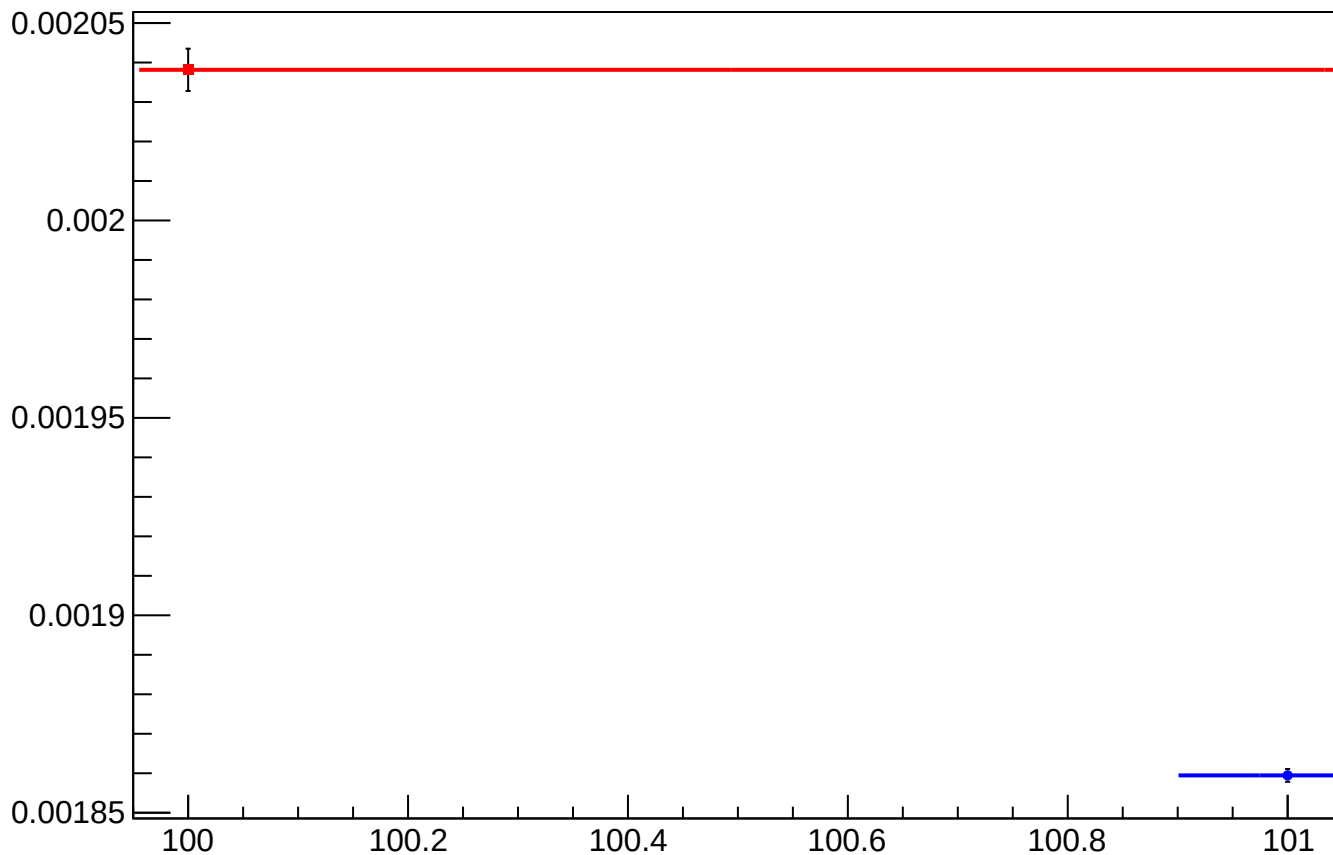
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

asym\_sam6\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected

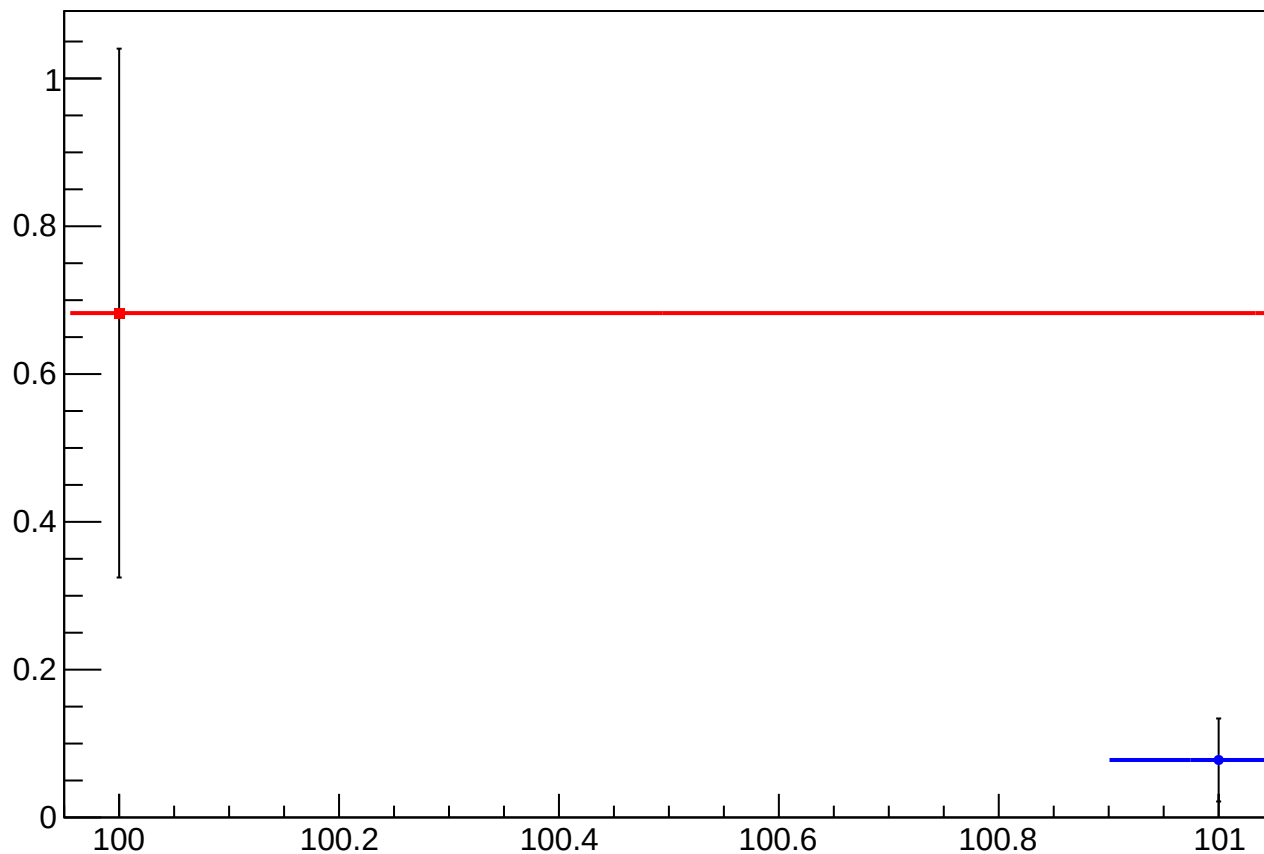


Right In: 0.002+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 Right Out: 0.002+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Right: 0.002+/-0.000  $\chi^2$ /NDF: 1019.9/1  
 In: 0.002+/-0.000  $\chi^2$ /NDF:0.0/0  
 Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 All: 0.002+/-0.000  $\chi^2$ /NDF: 1019.9/1



asym\_sam6\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.078 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.683 $\pm$ 0.358  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.092 $\pm$ 0.055  $\chi^2$ /NDF: 2.8/1

In: 0.078 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.092 $\pm$ 0.055  $\chi^2$ /NDF: 2.8/1

asym\_sam6\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 44.555+/-0.040  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.839+/-0.253  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

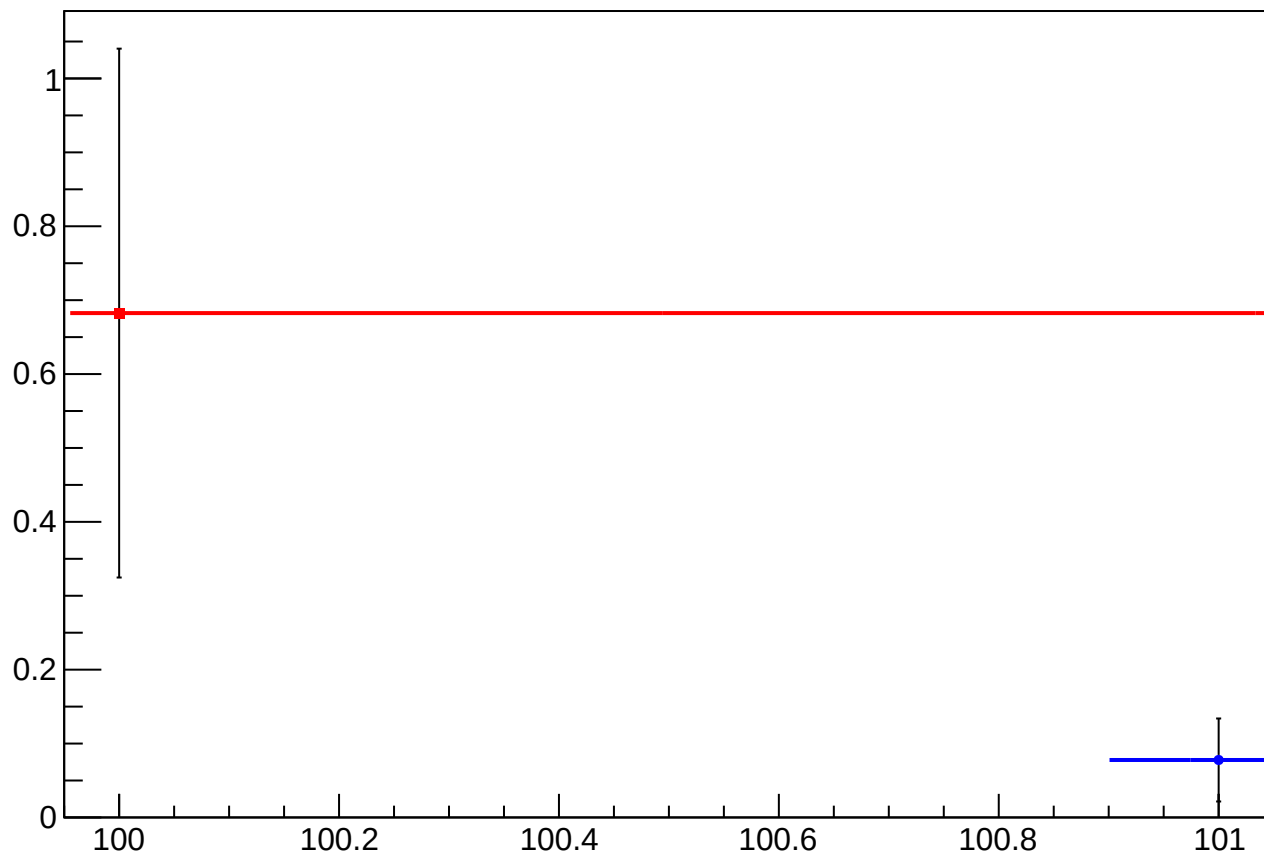
Right: 45.787+/-0.039  $\chi^2/\text{NDF}$ : 40094.9/1

In: 44.555+/-0.040  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 45.787+/-0.039  $\chi^2/\text{NDF}$ : 40094.9/1

asym\_sam6\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.078 $\pm$ 0.056  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.683 $\pm$ 0.358  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

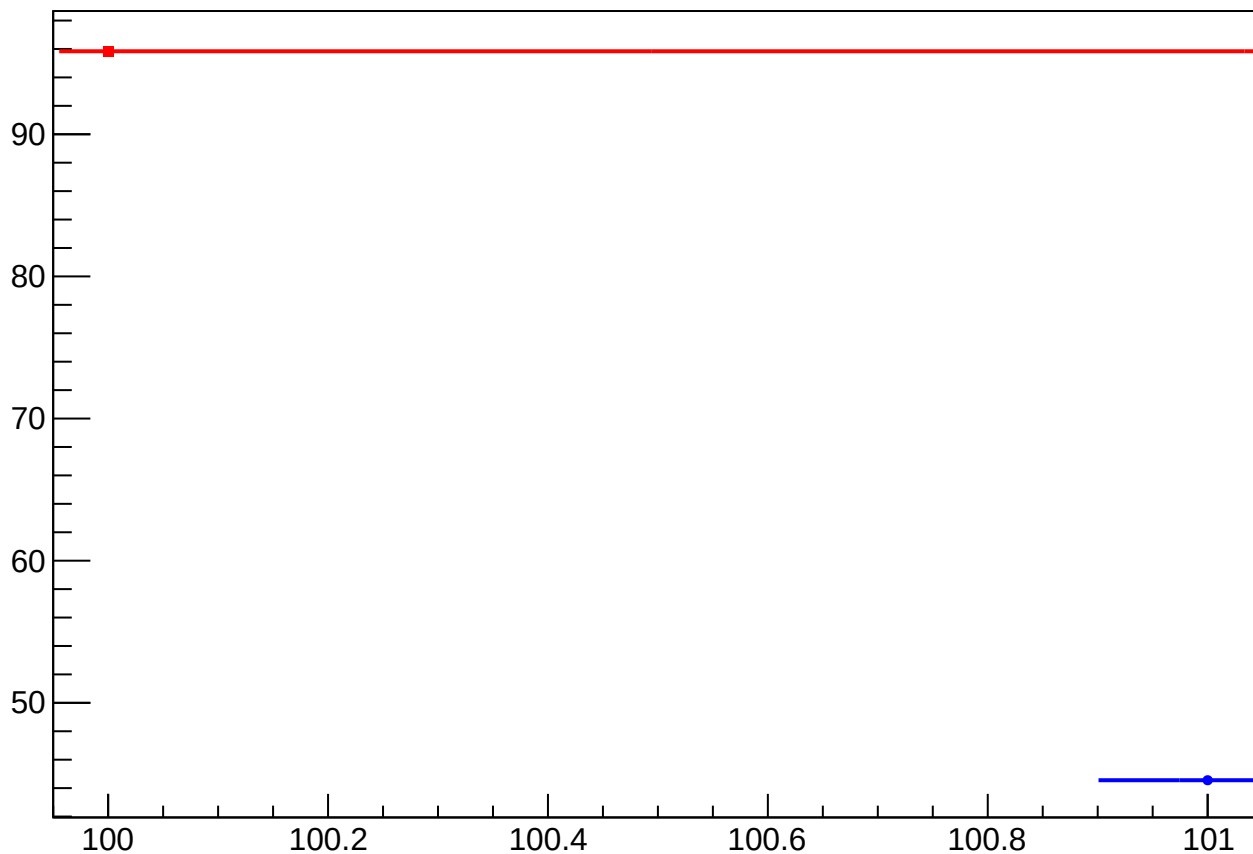
Right: 0.092 $\pm$ 0.055  $\chi^2$ /NDF: 2.8/1

In: 0.078 $\pm$ 0.056  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.092 $\pm$ 0.055  $\chi^2$ /NDF: 2.8/1

asym\_sam6\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 44.555+/-0.040  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.839+/-0.253  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

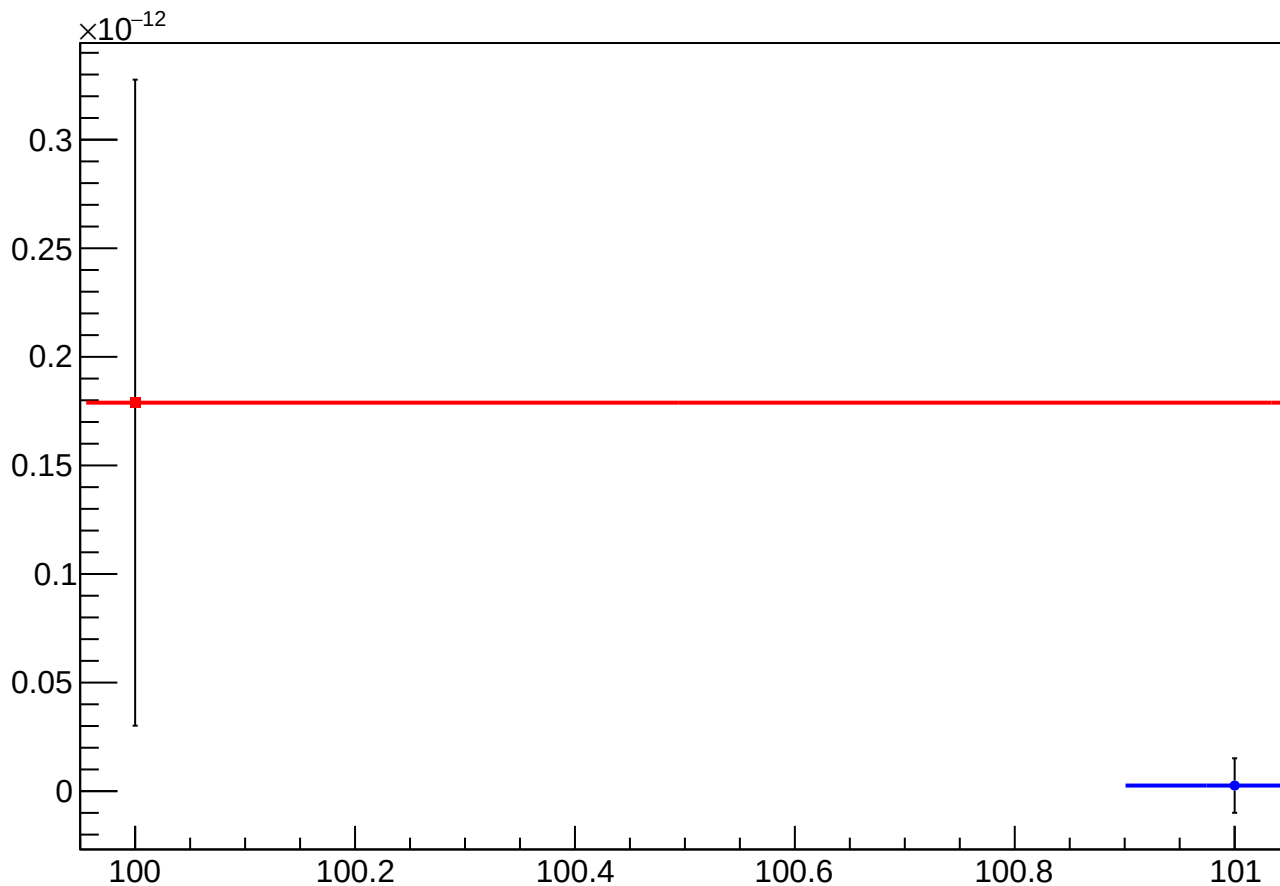
Right: 45.787+/-0.039  $\chi^2/\text{NDF}$ : 40094.9/1

In: 44.555+/-0.040  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 45.787+/-0.039  $\chi^2/\text{NDF}$ : 40094.9/1

asym\_sam6\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

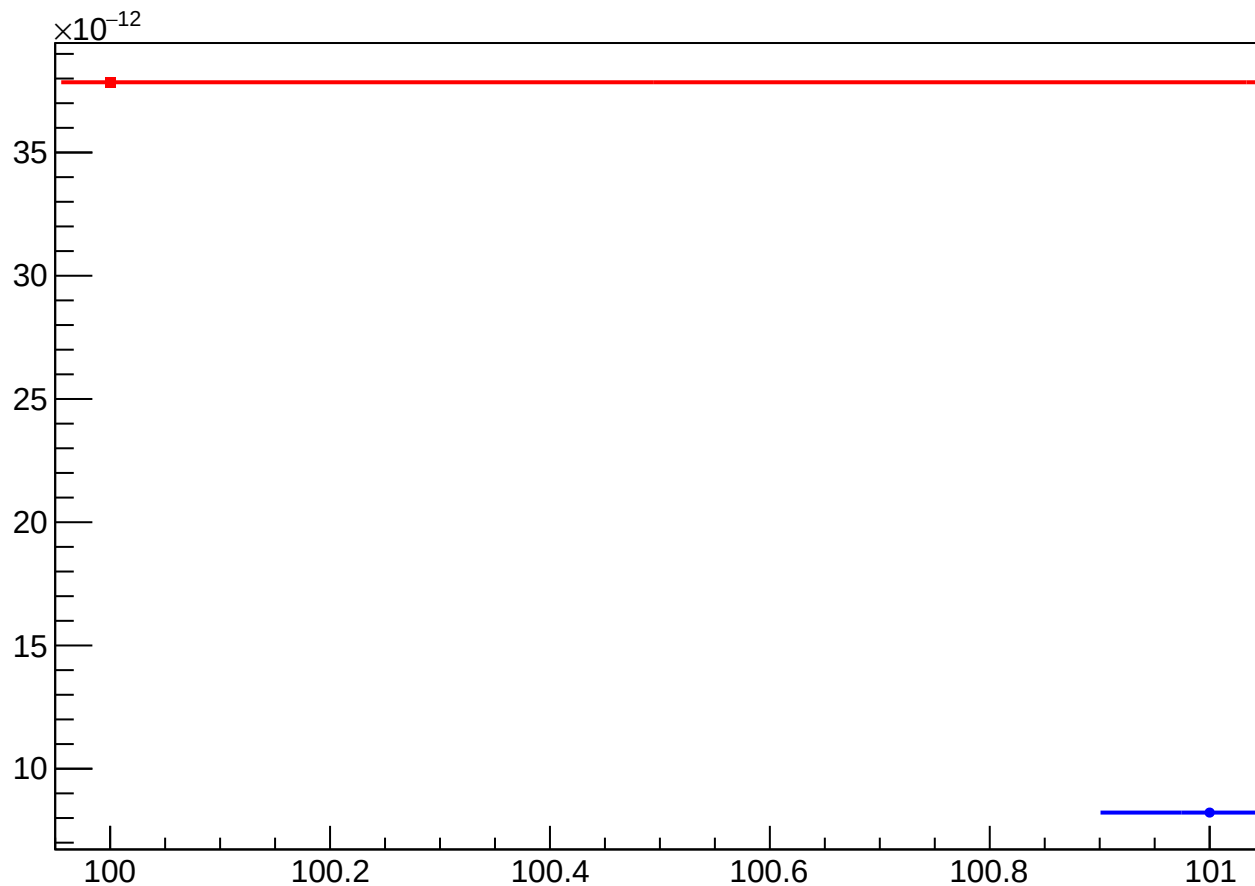
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/1

asym\_sam6\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

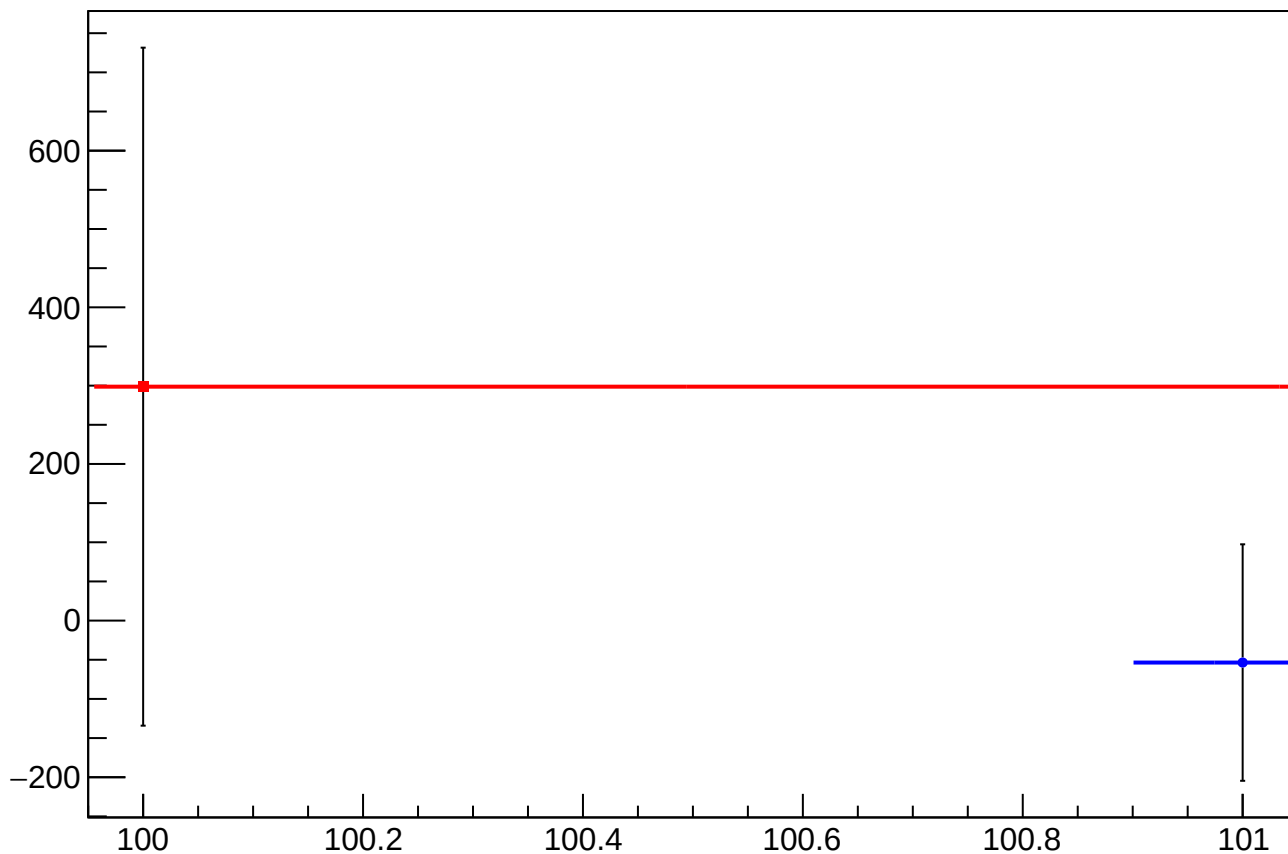
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 78797.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 78797.1/1

# reg\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -53.568+/-150.979  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 298.683+/-432.837  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

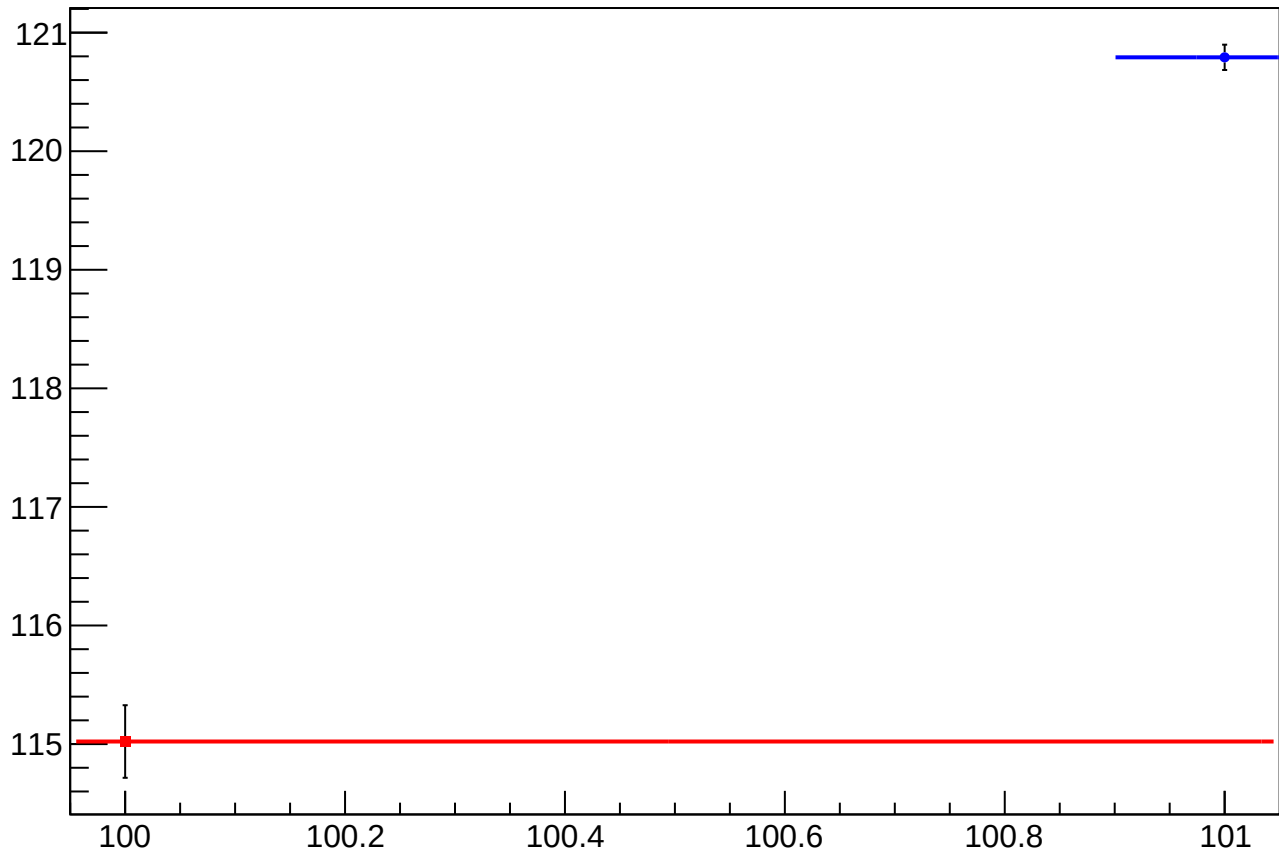
Right: -15.359+/-142.555  $\chi^2/\text{NDF}$ : 0.6/1

In: -53.568+/-150.979  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.359+/-142.555  $\chi^2/\text{NDF}$ : 0.6/1

# reg\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 120.792 $\pm$ 0.107  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 115.021 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 120.166 $\pm$ 0.101  $\chi^2$ /NDF: 316.9/1

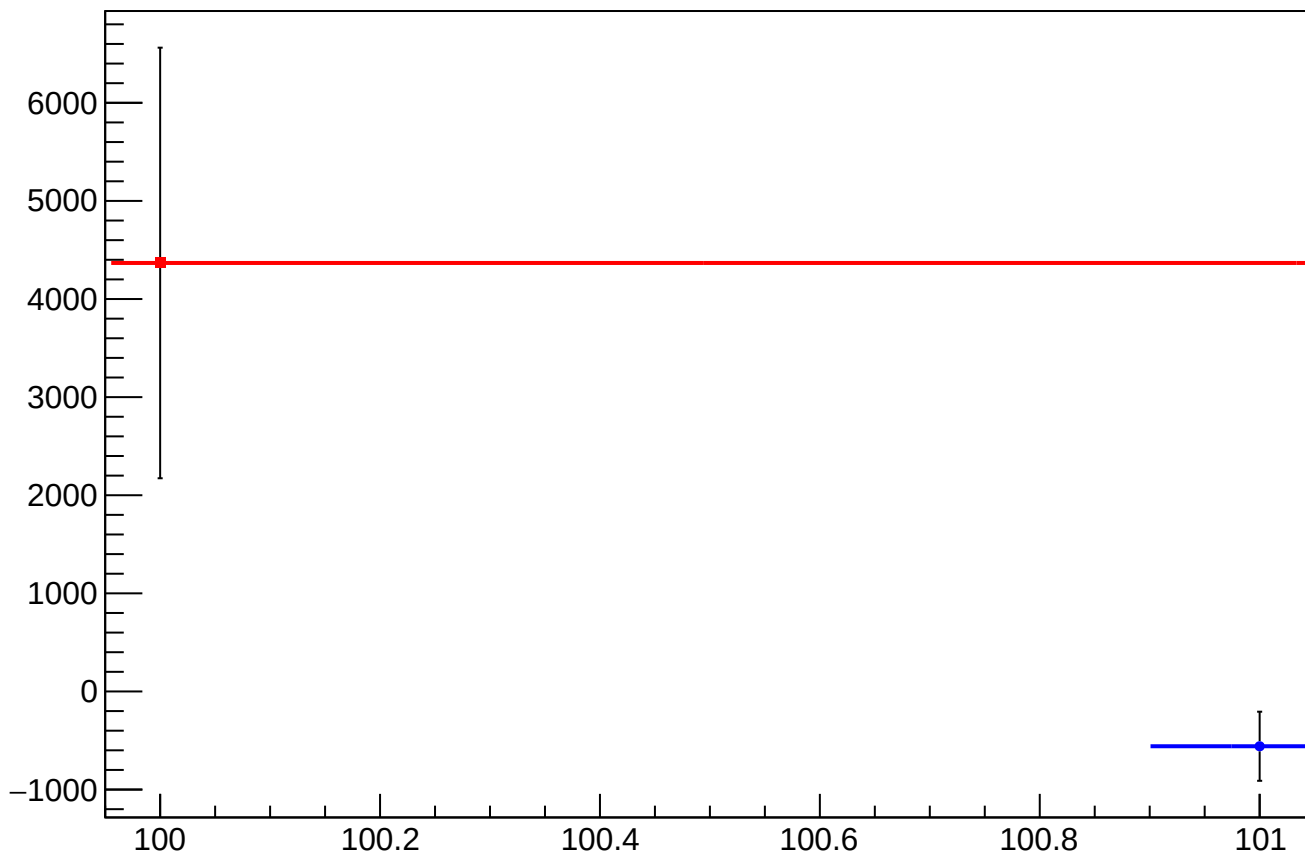
In: 120.792 $\pm$ 0.107  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.166 $\pm$ 0.101  $\chi^2$ /NDF: 316.9/1



asym\_sam7\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -558.545+/-352.156  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4367.537+/-2194.500  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

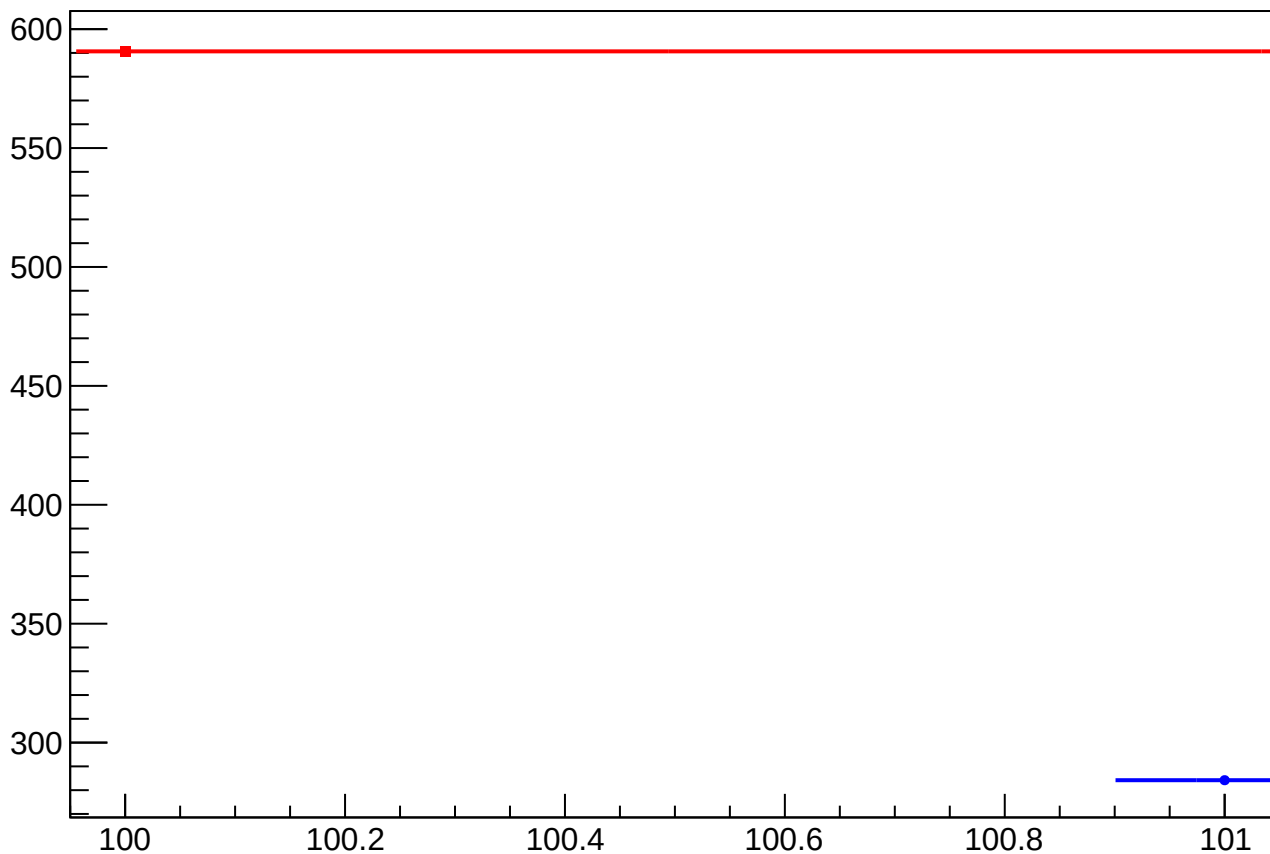
Right: -434.877+/-347.708  $\chi^2/\text{NDF}$ : 4.9/1

In: -558.545+/-352.156  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -434.877+/-347.708  $\chi^2/\text{NDF}$ : 4.9/1

asym\_sam7\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 284.188+/-0.249  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 590.657+/-1.552  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

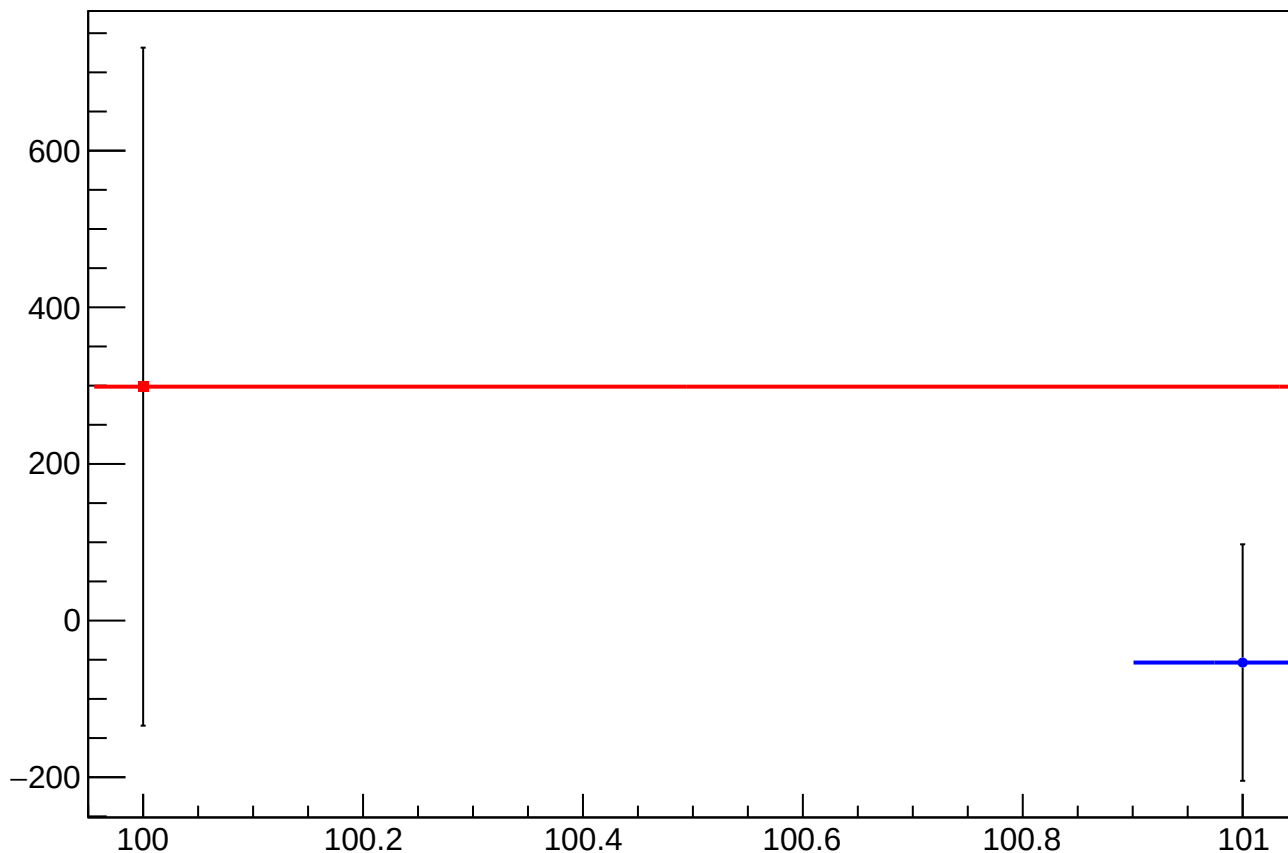
Right: 291.882+/-0.246  $\chi^2/\text{NDF}$ : 38026.9/1

In: 284.188+/-0.249  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 291.882+/-0.246  $\chi^2/\text{NDF}$ : 38026.9/1

# cor\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -53.583+/-150.979  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 298.685+/-432.837  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

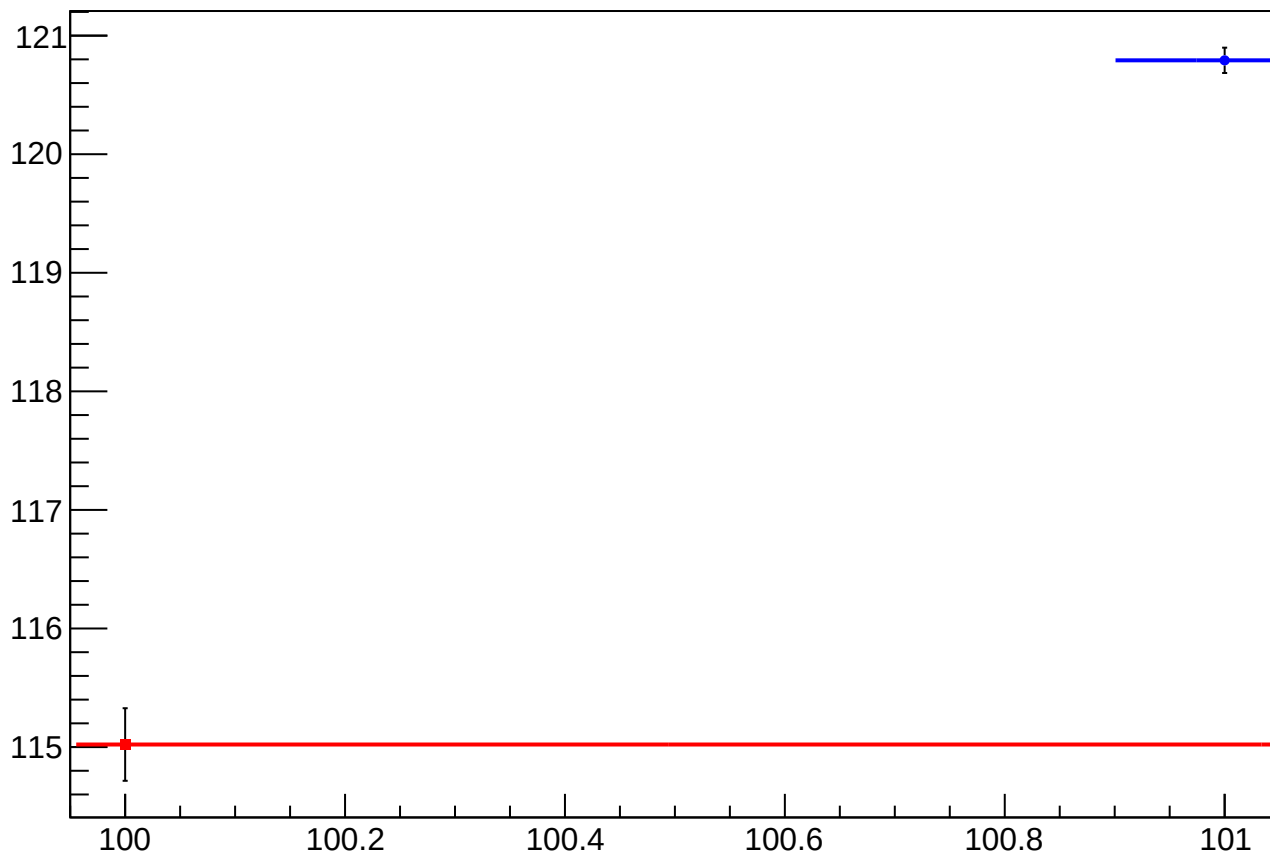
Right: -15.372+/-142.555  $\chi^2/\text{NDF}$ : 0.6/1

In: -53.583+/-150.979  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.372+/-142.555  $\chi^2/\text{NDF}$ : 0.6/1

# cor\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 120.792 $\pm$ 0.107  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 115.021 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

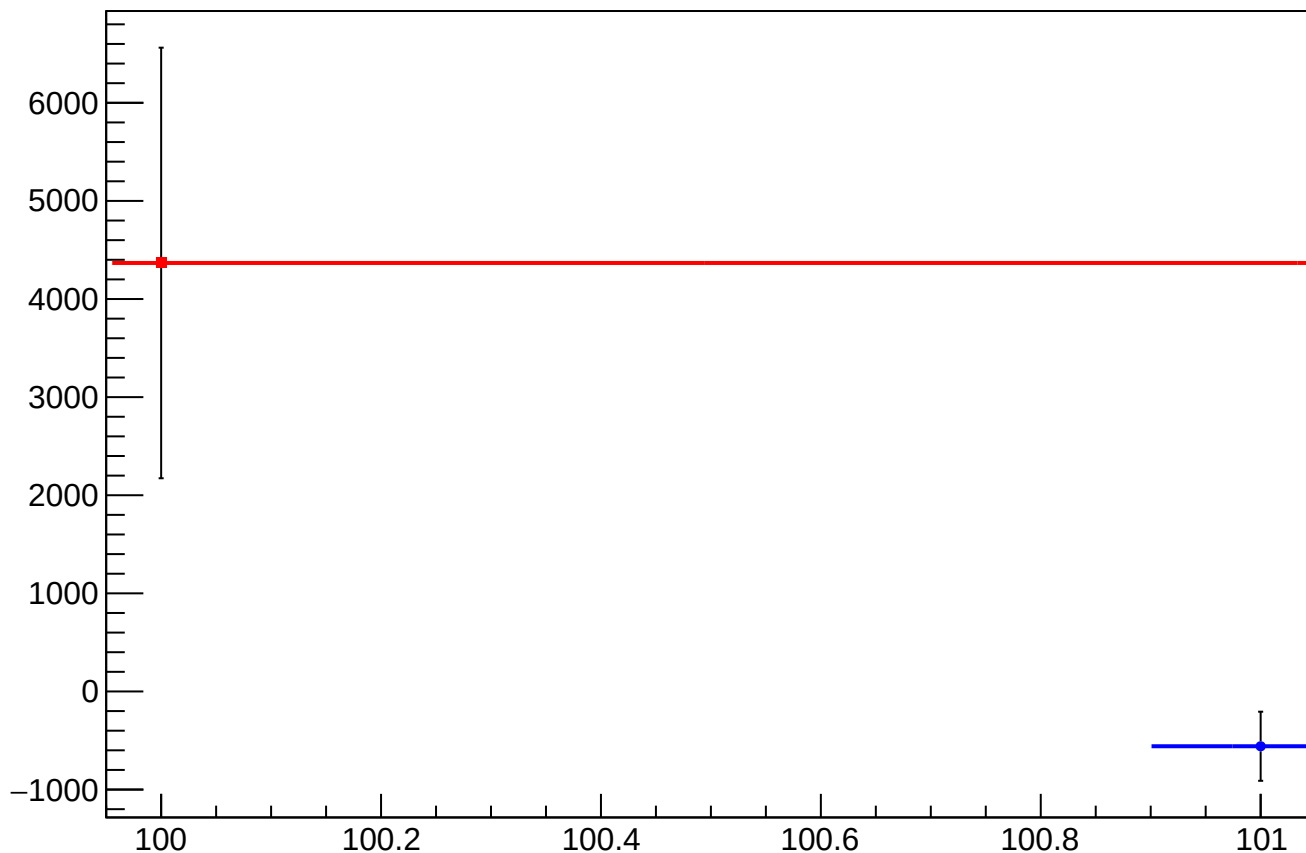
Right: 120.166 $\pm$ 0.101  $\chi^2$ /NDF: 316.9/1

In: 120.792 $\pm$ 0.107  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.166 $\pm$ 0.101  $\chi^2$ /NDF: 316.9/1

asym\_sam7\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -558.556+/-352.157  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4367.537+/-2194.501  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

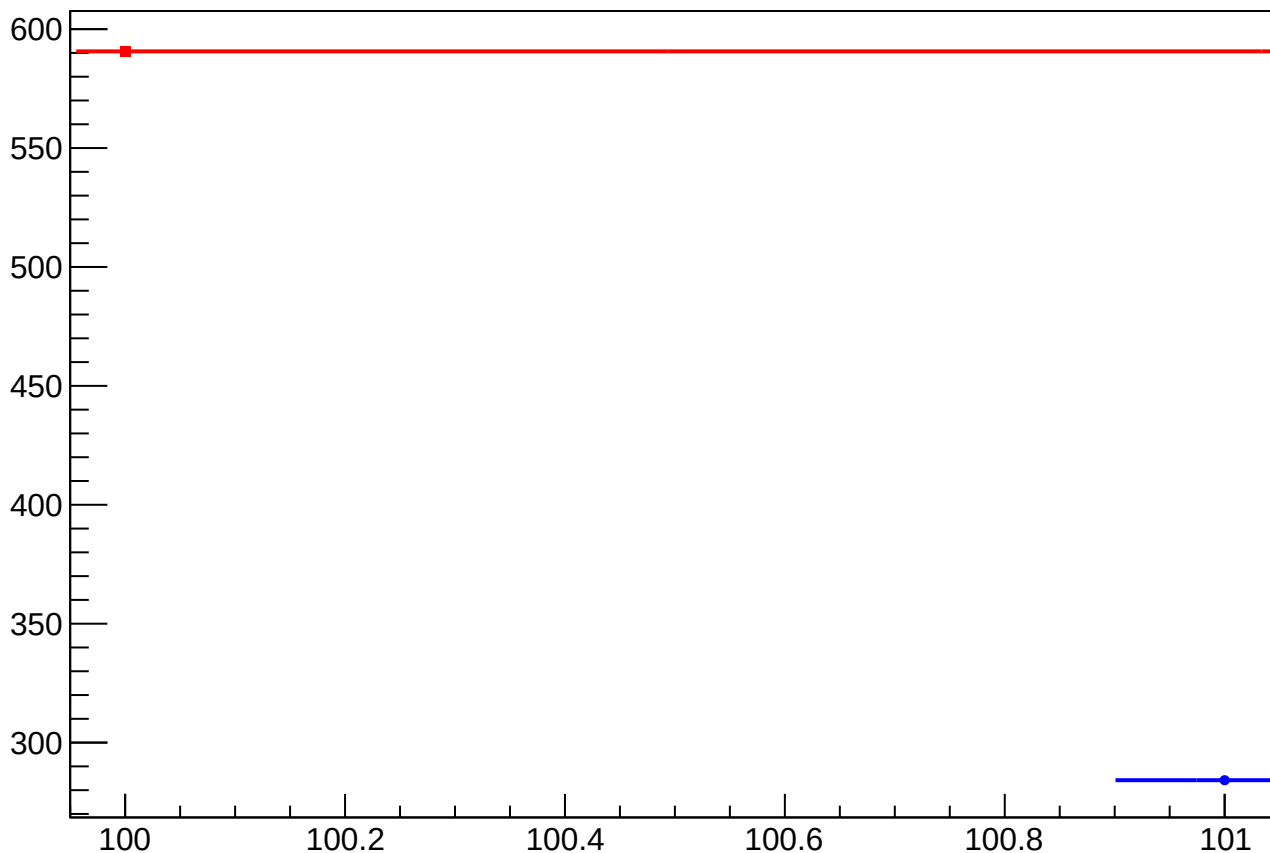
Right: -434.887+/-347.708  $\chi^2/\text{NDF}$ : 4.9/1

In: -558.556+/-352.157  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -434.887+/-347.708  $\chi^2/\text{NDF}$ : 4.9/1

asym\_sam7\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 284.189+/-0.249  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 590.657+/-1.552  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

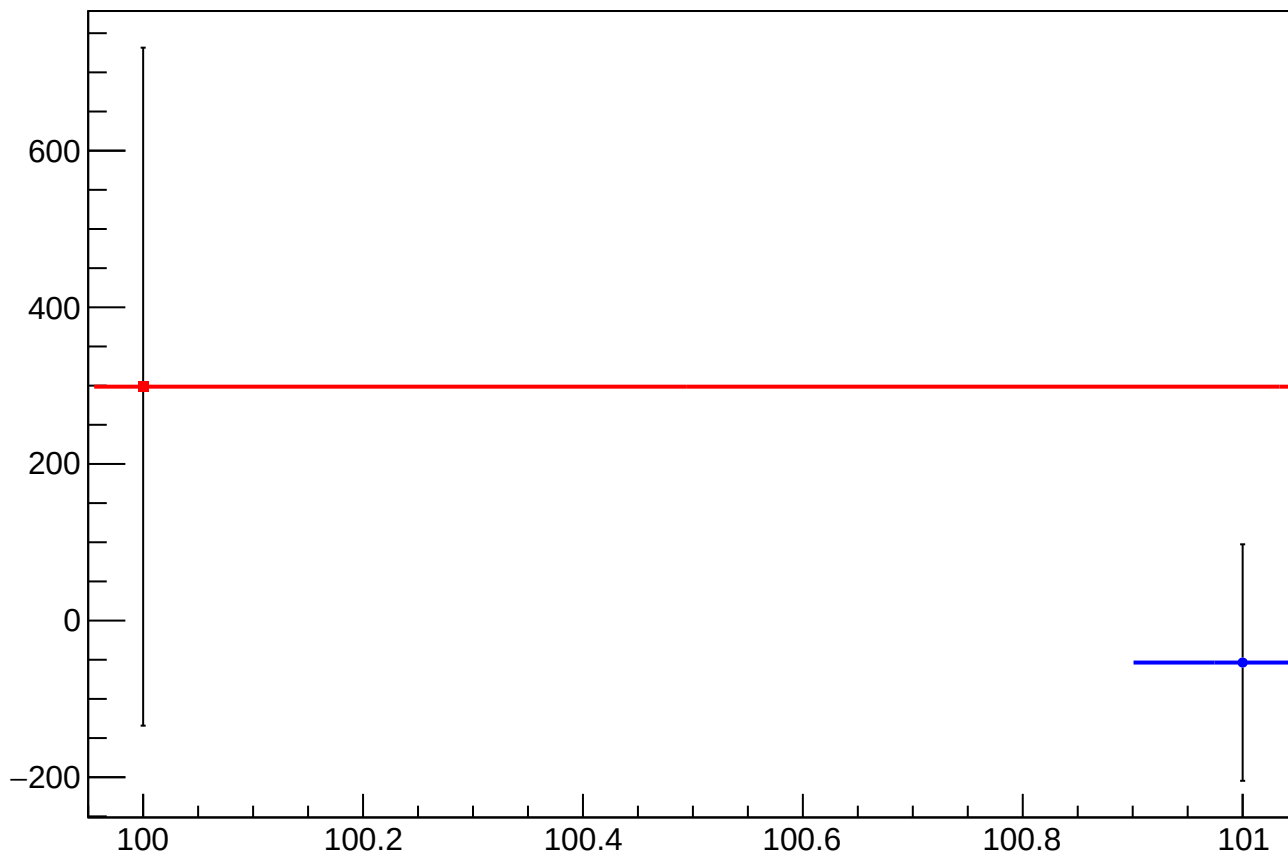
Right: 291.883+/-0.246  $\chi^2/\text{NDF}$ : 38026.7/1

In: 284.189+/-0.249  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 291.883+/-0.246  $\chi^2/\text{NDF}$ : 38026.7/1

eigen\_cor\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -53.583+/-150.979  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 298.685+/-432.837  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

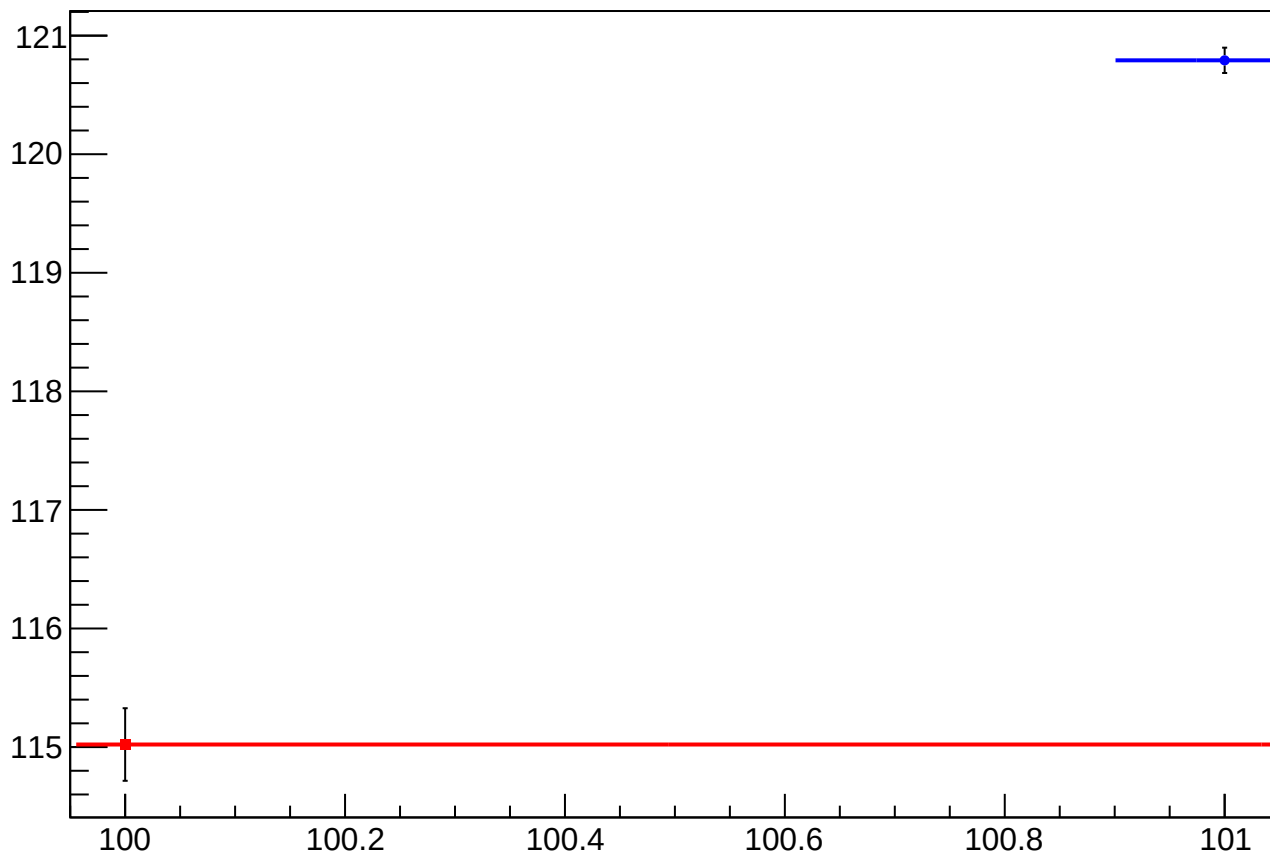
Right: -15.372+/-142.555  $\chi^2/\text{NDF}$ : 0.6/1

In: -53.583+/-150.979  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -15.372+/-142.555  $\chi^2/\text{NDF}$ : 0.6/1

# eigen\_cor\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 120.792 $\pm$ 0.107  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 115.021 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 120.166 $\pm$ 0.101  $\chi^2$ /NDF: 316.9/1

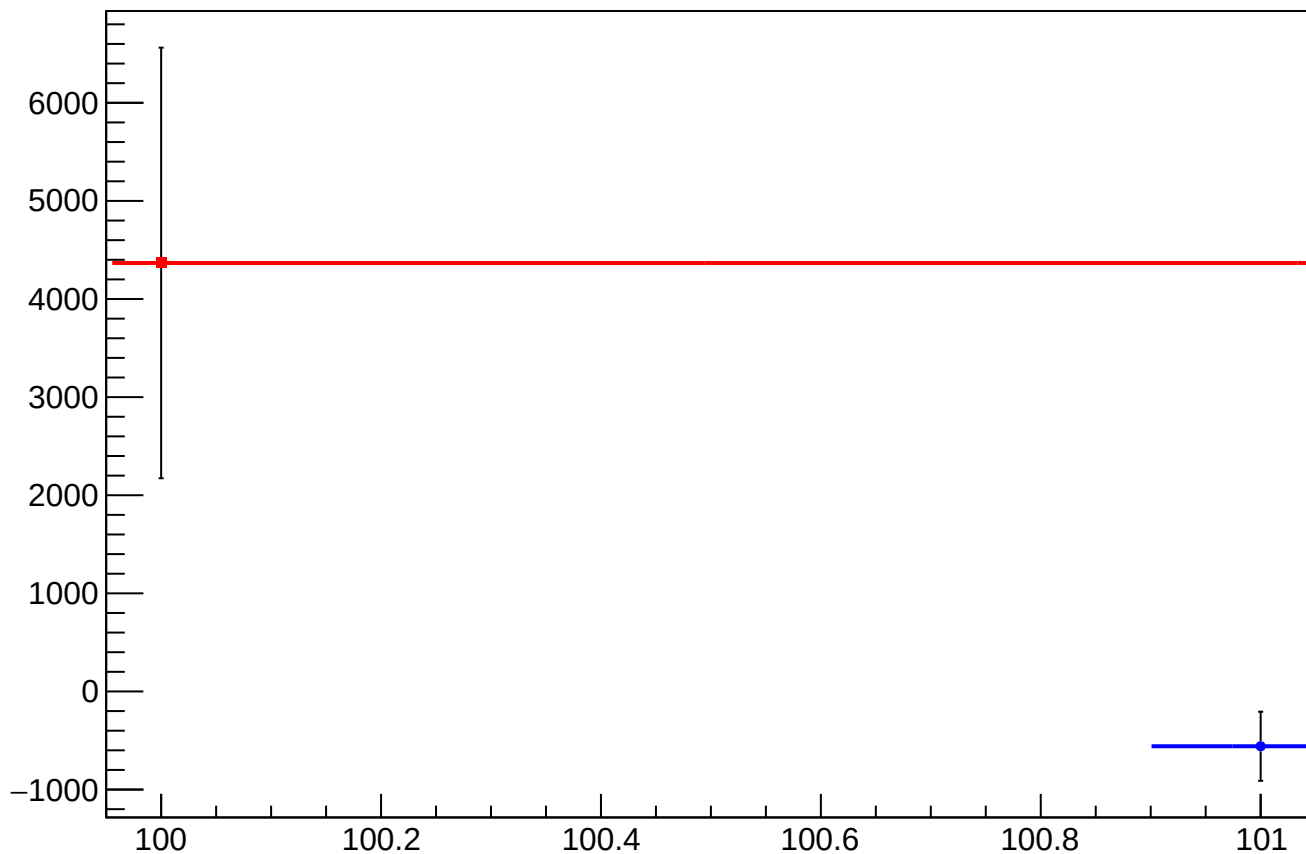
In: 120.792 $\pm$ 0.107  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 120.166 $\pm$ 0.101  $\chi^2$ /NDF: 316.9/1



asym\_sam7\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -558.556+/-352.157  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4367.537+/-2194.501  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

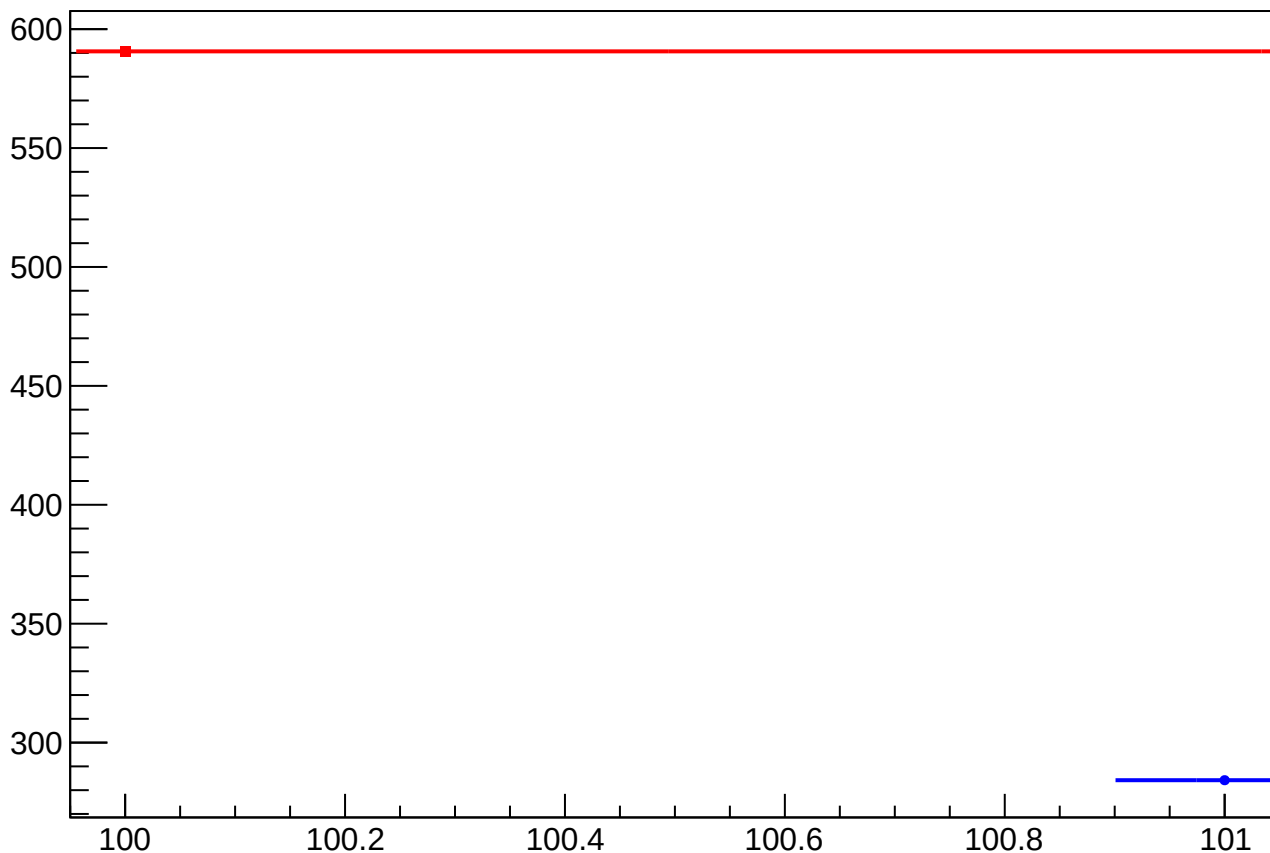
Right: -434.887+/-347.708  $\chi^2/\text{NDF}$ : 4.9/1

In: -558.556+/-352.157  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -434.887+/-347.708  $\chi^2/\text{NDF}$ : 4.9/1

asym\_sam7\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 284.189 $\pm$ 0.249  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 590.657 $\pm$ 1.552  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

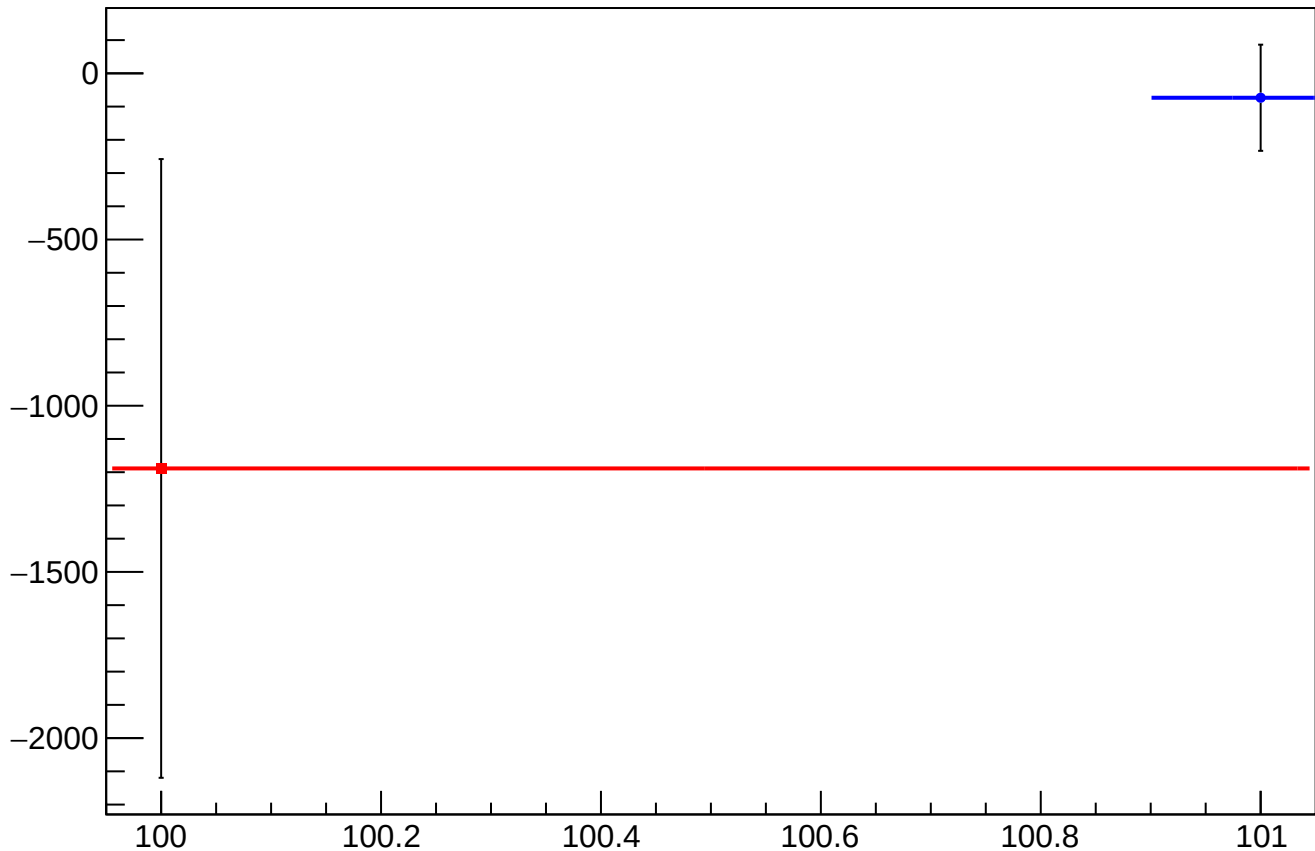
Right: 291.883 $\pm$ 0.246  $\chi^2$ /NDF: 38026.7/1

In: 284.189 $\pm$ 0.249  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 291.883 $\pm$ 0.246  $\chi^2$ /NDF: 38026.7/1

# dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -73.439+/-159.704  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1188.661+/-930.757  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

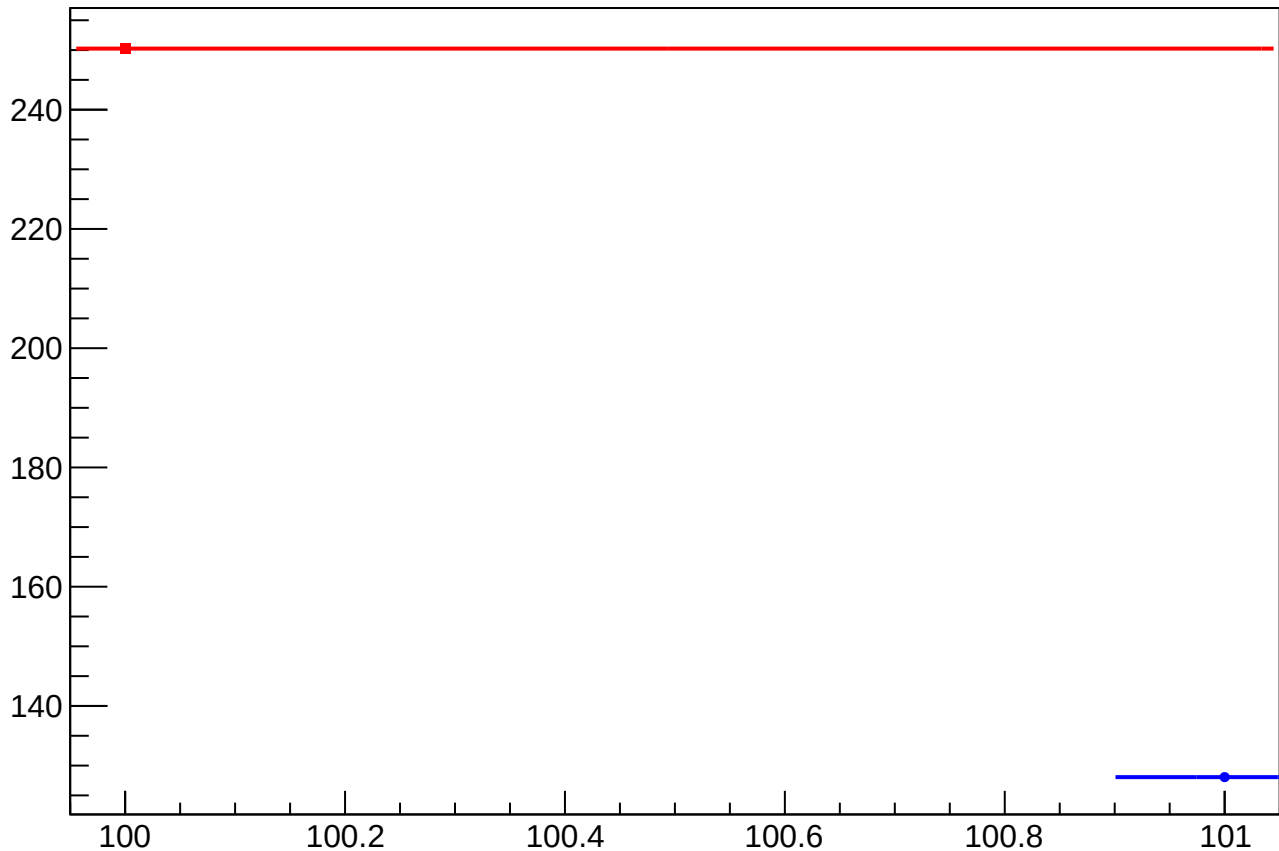
Right: -105.334+/-157.404  $\chi^2/\text{NDF}$ : 1.4/1

In: -73.439+/-159.704  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -105.334+/-157.404  $\chi^2/\text{NDF}$ : 1.4/1

# dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 128.064 $\pm$ 0.113  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 250.246 $\pm$ 0.658  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

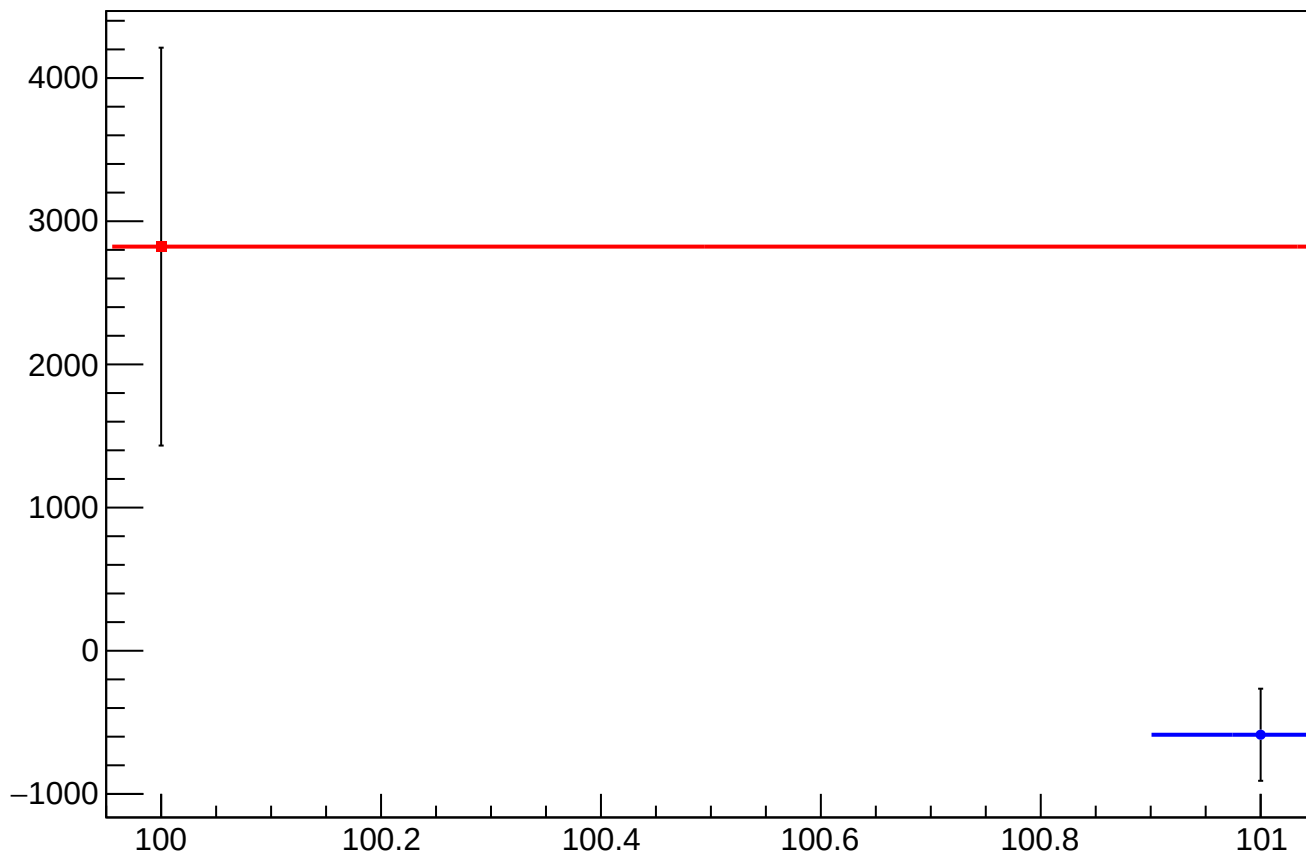
Right: 131.558 $\pm$ 0.111  $\chi^2$ /NDF: 33479.0/1

In: 128.064 $\pm$ 0.113  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.558 $\pm$ 0.111  $\chi^2$ /NDF: 33479.0/1

asym\_sam7\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -586.607+/-321.630  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2822.709+/-1389.497  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

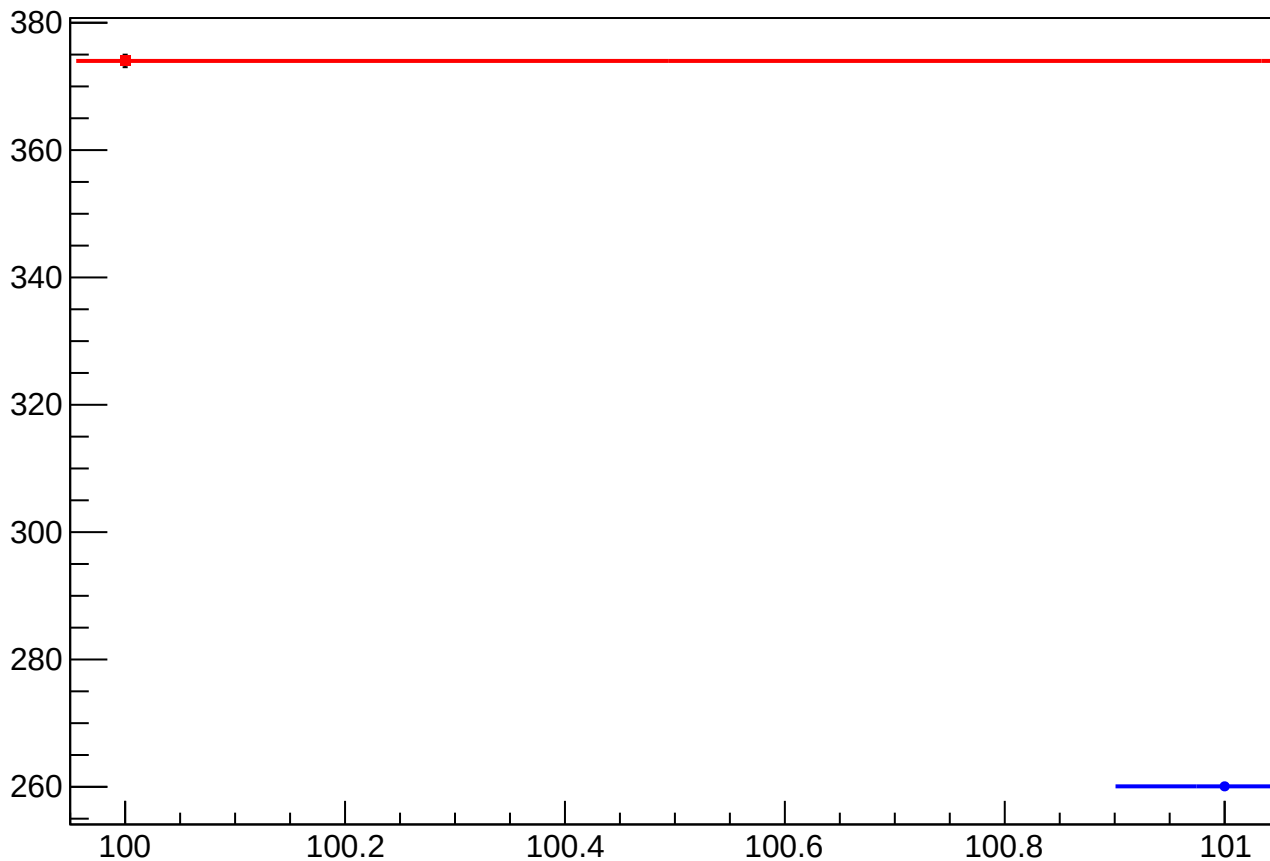
Right: -413.227+/-313.345  $\chi^2/\text{NDF}$ : 5.7/1

In: -586.607+/-321.630  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -413.227+/-313.345  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam7\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 260.077+/-0.227  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 374.005+/-0.983  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

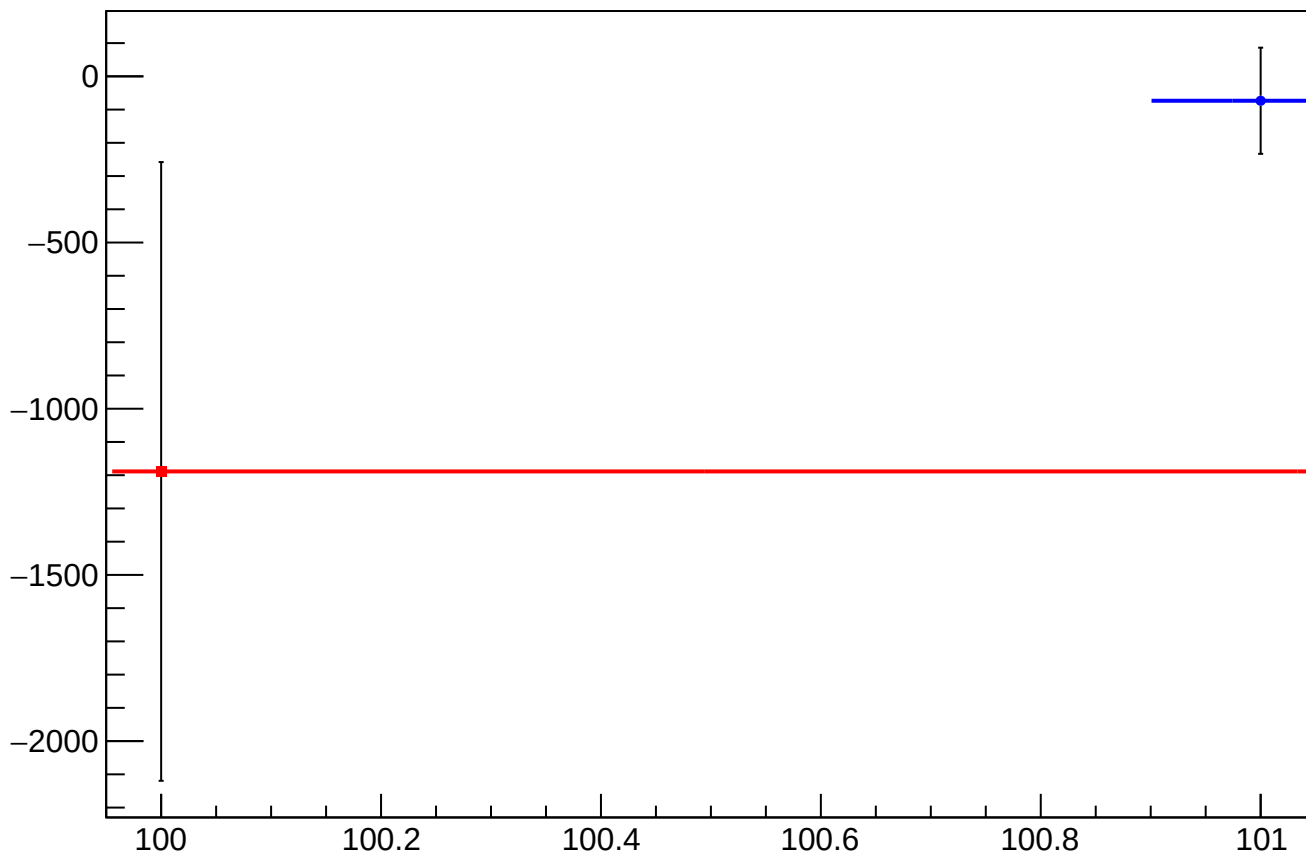
Right: 265.871+/-0.222  $\chi^2/\text{NDF}$ : 12761.6/1

In: 260.077+/-0.227  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 265.871+/-0.222  $\chi^2/\text{NDF}$ : 12761.6/1

eigen\_dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -73.437+/-159.704  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1188.670+/-930.761  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

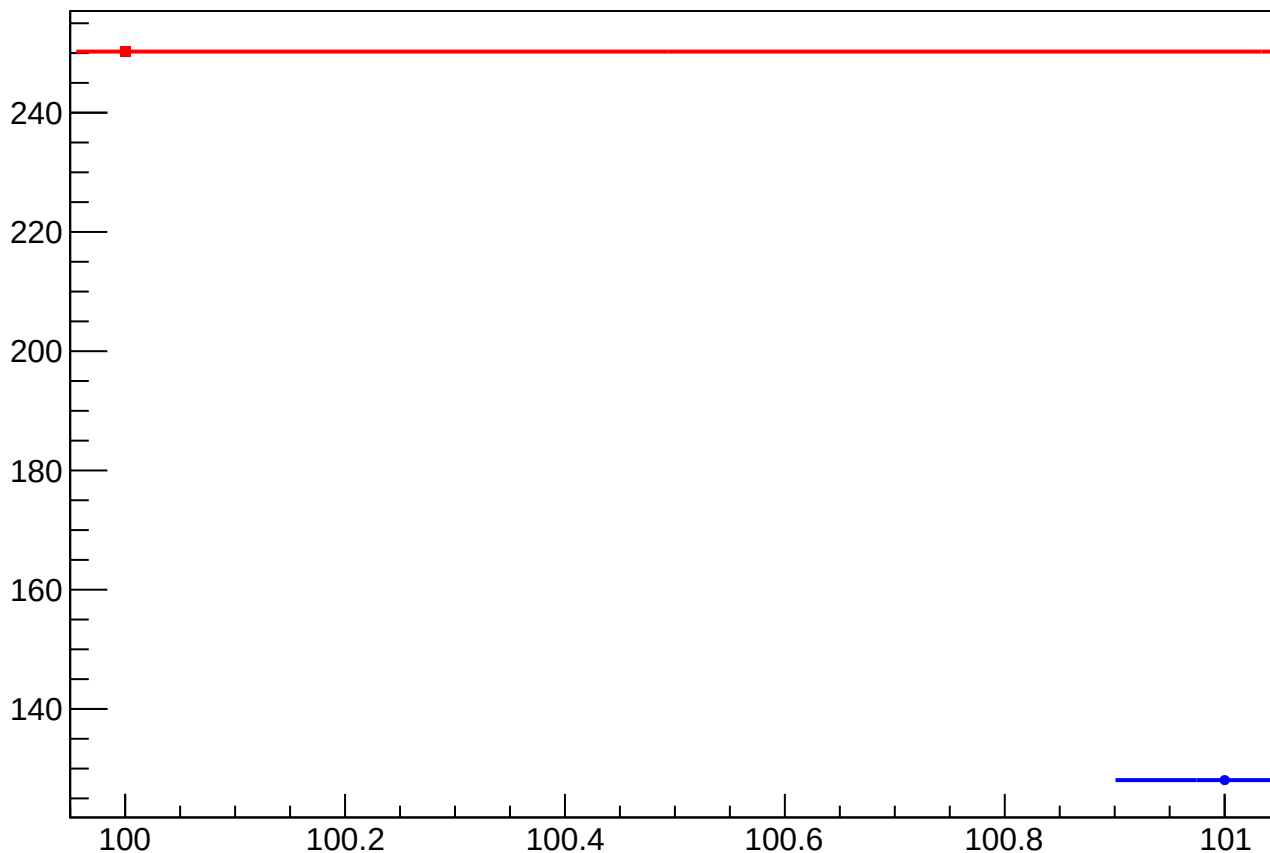
Right: -105.332+/-157.404  $\chi^2/\text{NDF}$ : 1.4/1

In: -73.437+/-159.704  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -105.332+/-157.404  $\chi^2/\text{NDF}$ : 1.4/1

# eigen\_dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 128.064 $\pm$ 0.113  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 250.248 $\pm$ 0.658  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 131.558 $\pm$ 0.111  $\chi^2$ /NDF: 33479.3/1

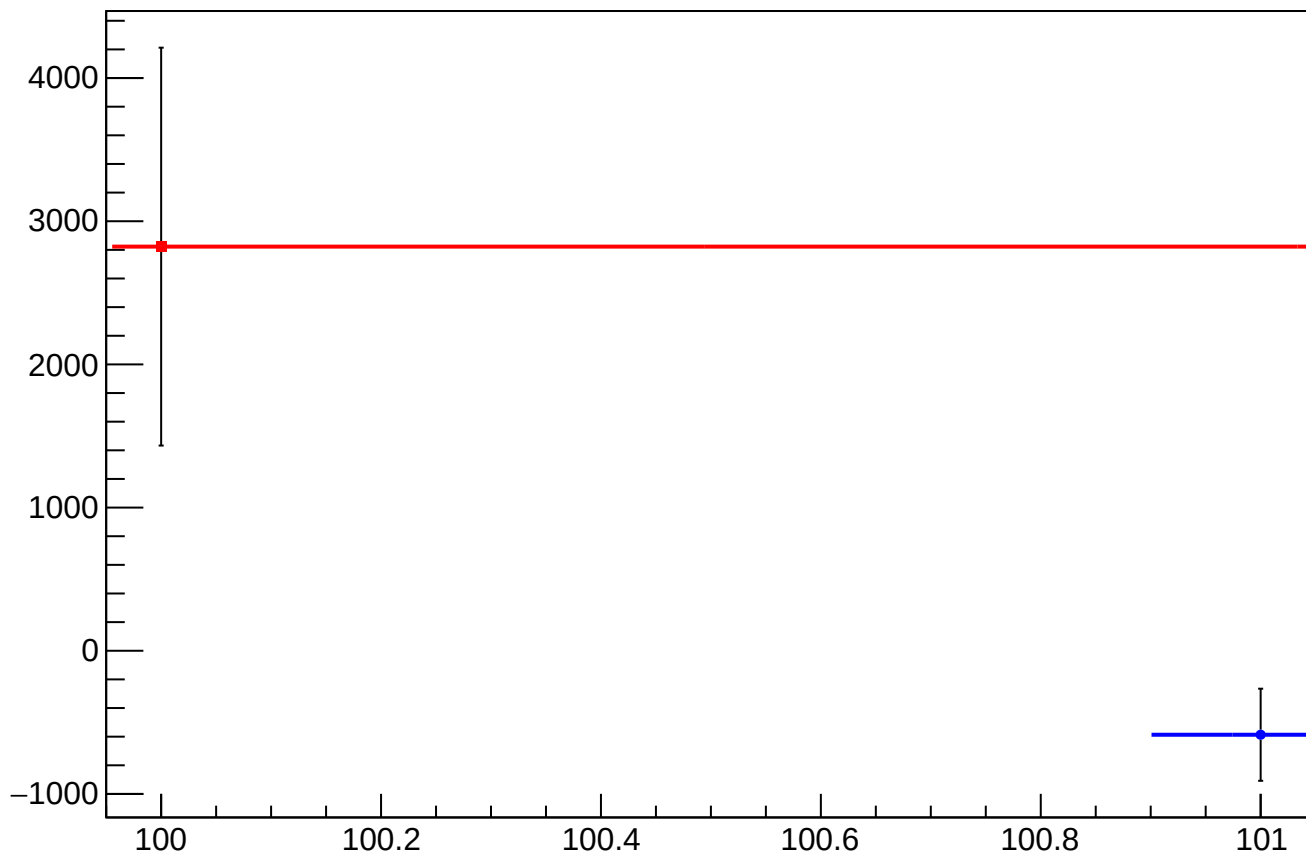
In: 128.064 $\pm$ 0.113  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 131.558 $\pm$ 0.111  $\chi^2$ /NDF: 33479.3/1



asym\_sam7\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -586.605+/-321.629  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2822.701+/-1389.493  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

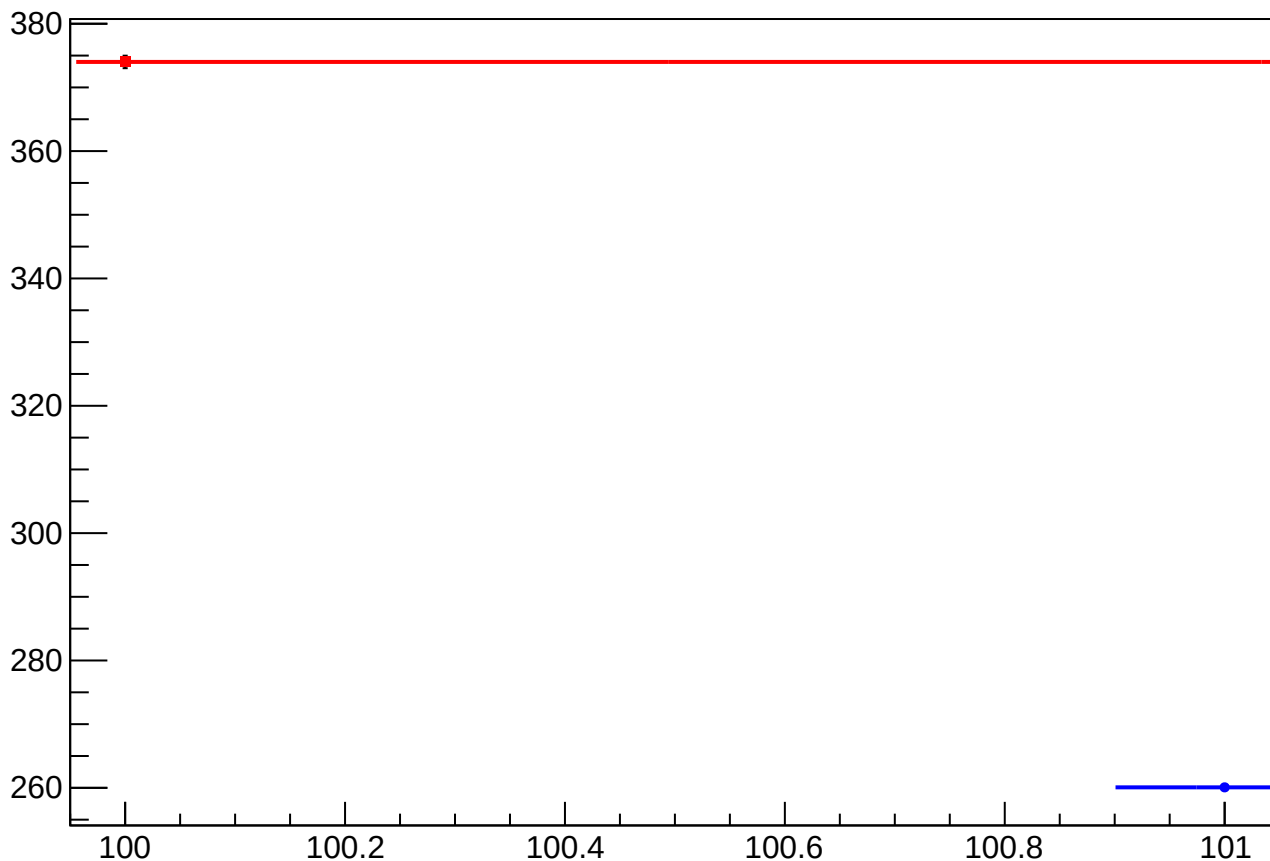
Right: -413.226+/-313.344  $\chi^2/\text{NDF}$ : 5.7/1

In: -586.605+/-321.629  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -413.226+/-313.344  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam7\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 260.076 $\pm$ 0.227  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 374.003 $\pm$ 0.983  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

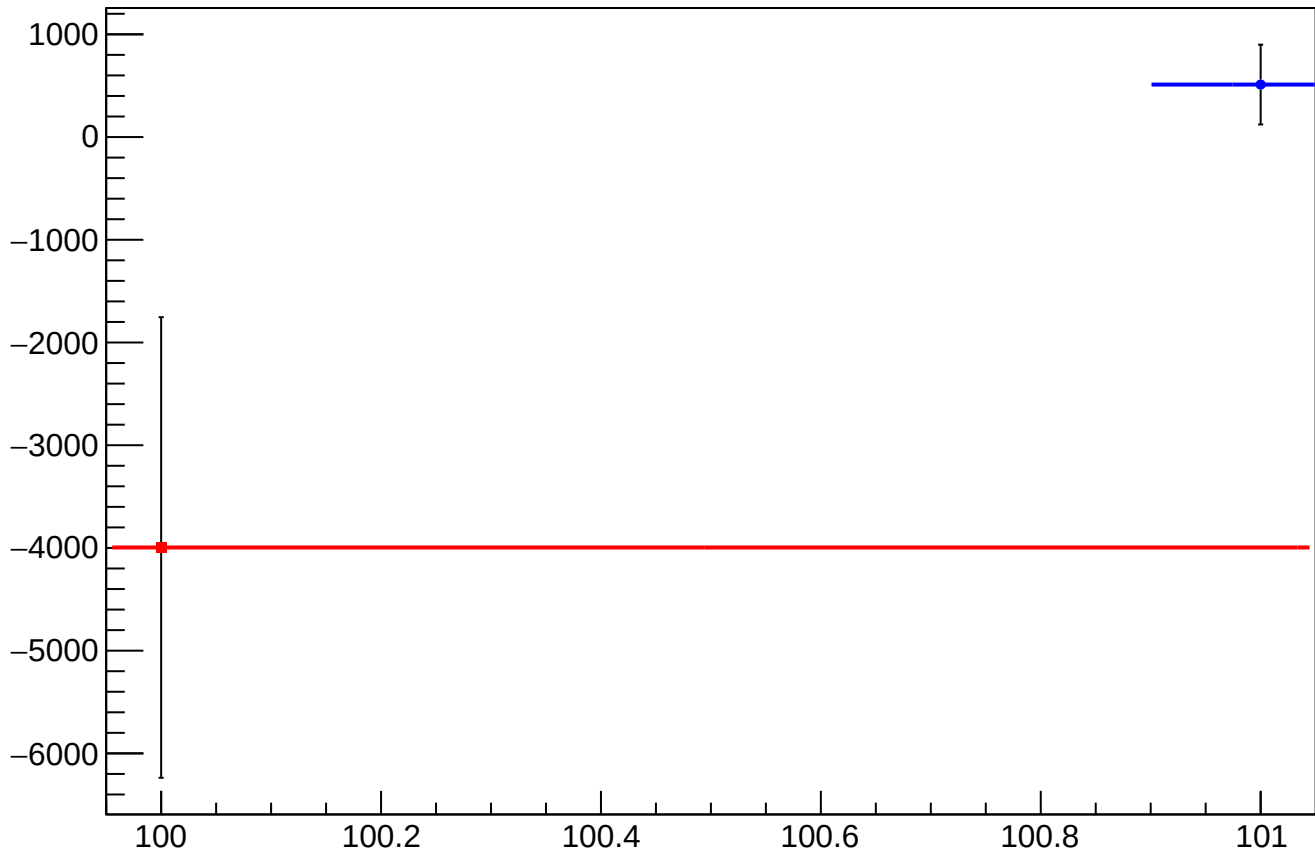
Right: 265.870 $\pm$ 0.222  $\chi^2/\text{NDF}$ : 12761.6/1

In: 260.076 $\pm$ 0.227  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 265.870 $\pm$ 0.222  $\chi^2/\text{NDF}$ : 12761.6/1

# asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 510.993 $\pm$ 388.341  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3995.443 $\pm$ 2242.148  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

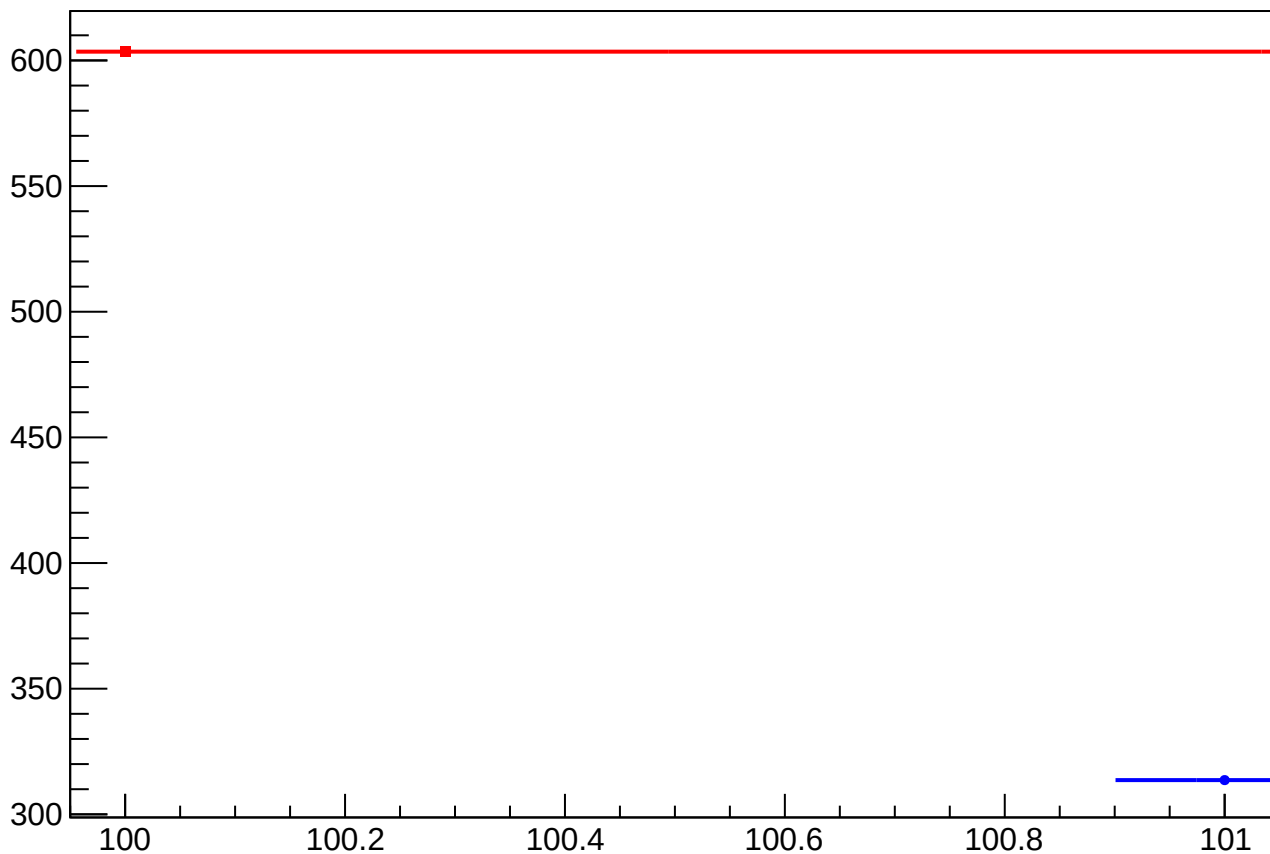
Right: 379.745 $\pm$ 382.644  $\chi^2$ /NDF: 3.9/1

In: 510.993 $\pm$ 388.341  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 379.745 $\pm$ 382.644  $\chi^2$ /NDF: 3.9/1

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 313.622 $\pm$ 0.275  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 603.495 $\pm$ 1.585  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

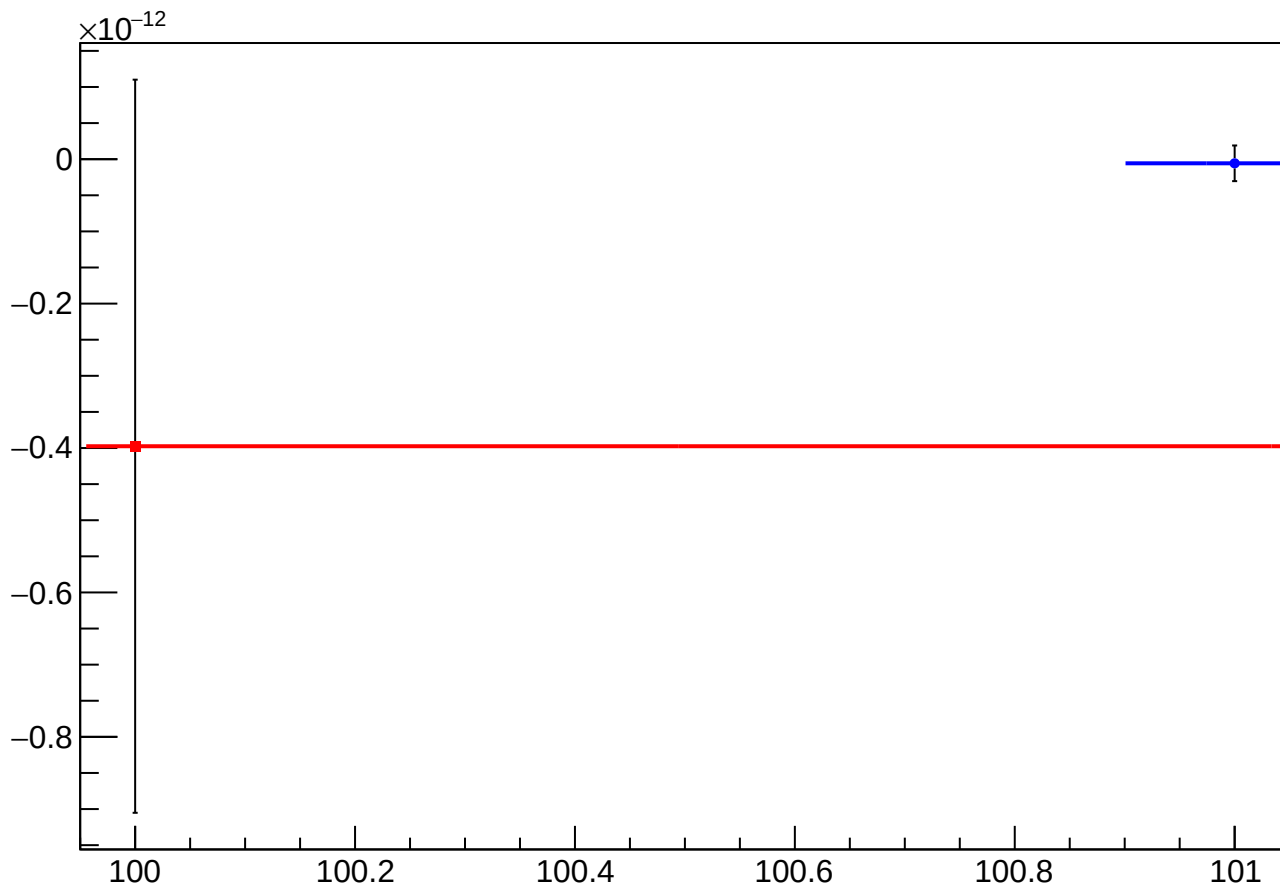
Right: 322.064 $\pm$ 0.271  $\chi^2$ /NDF: 32454.8/1

In: 313.622 $\pm$ 0.275  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 322.064 $\pm$ 0.271  $\chi^2$ /NDF: 32454.8/1

asym\_sam7\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

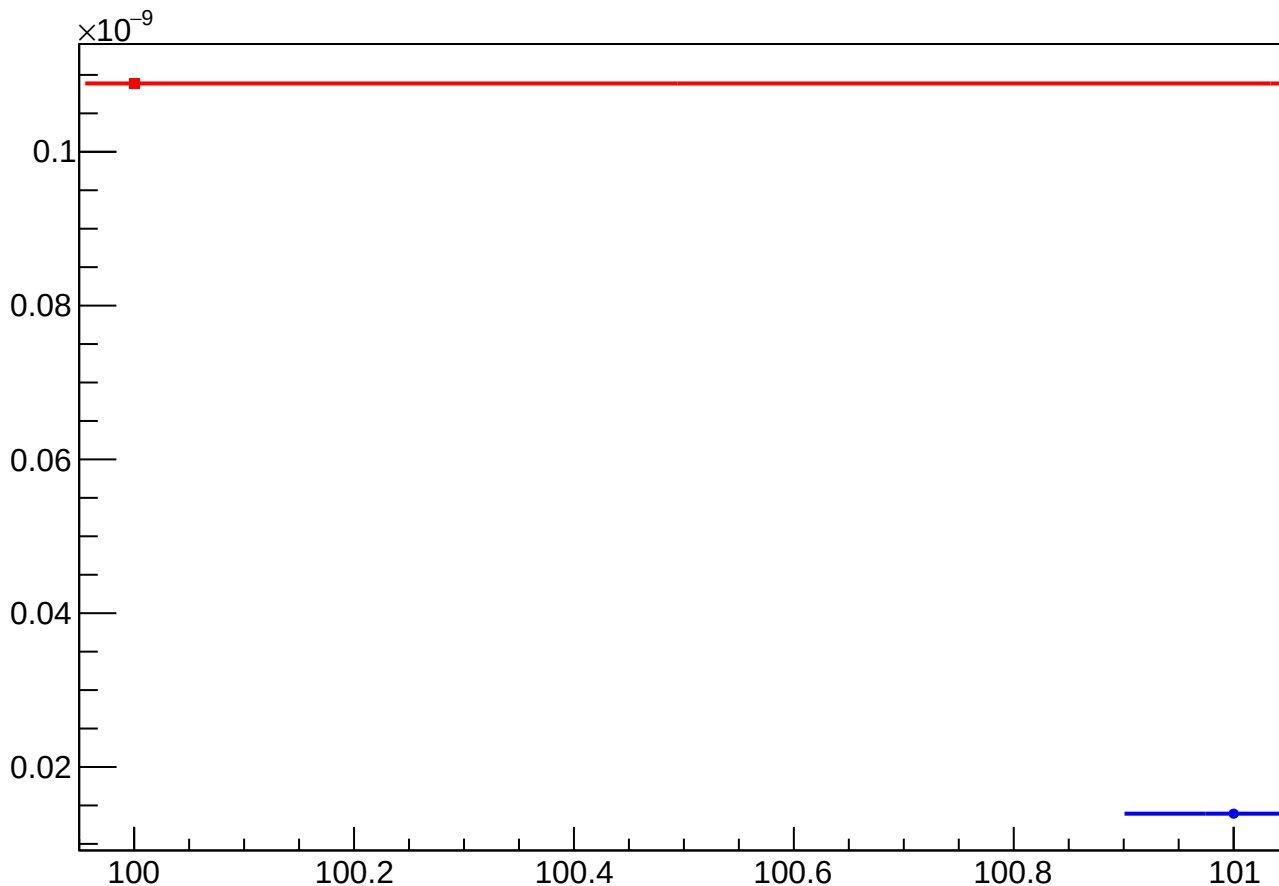
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.6/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.6/1

asym\_sam7\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

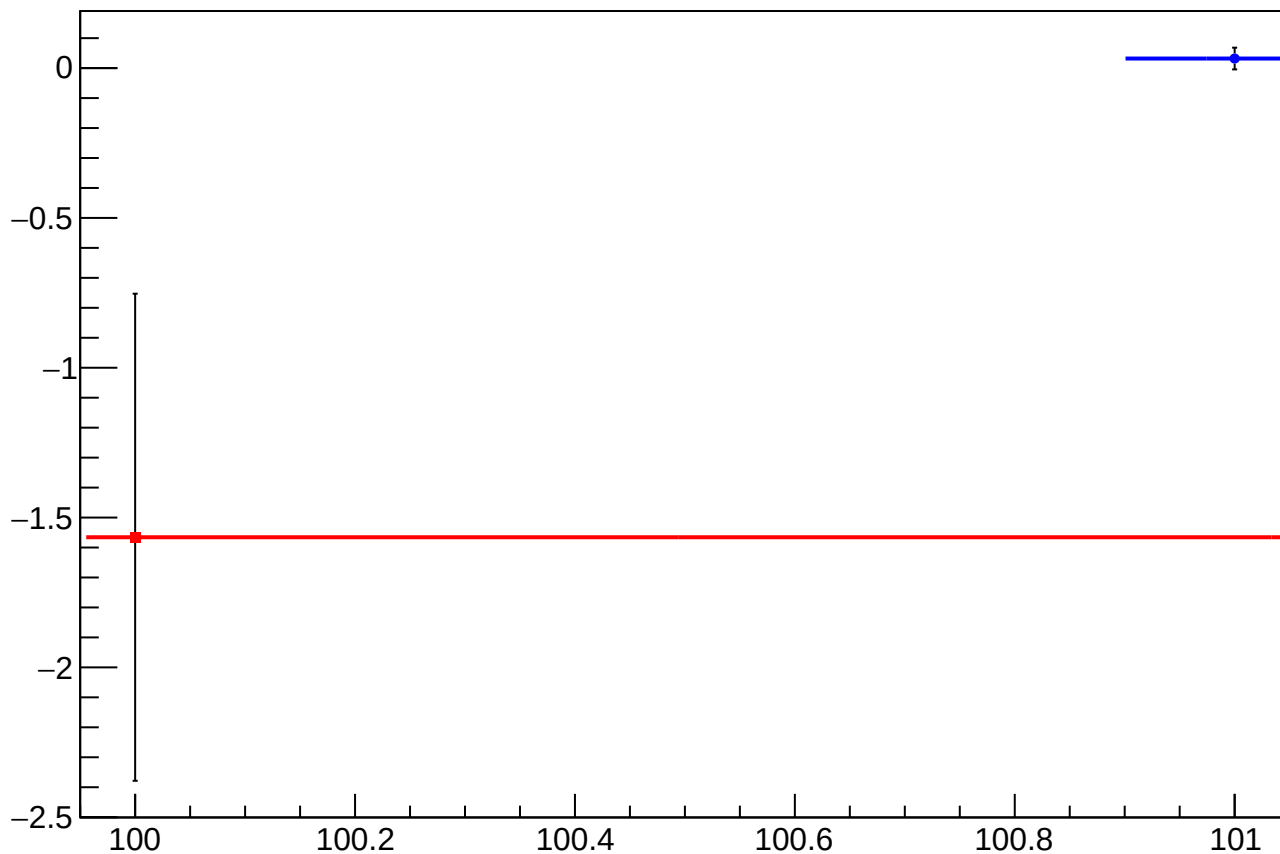
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 69817.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 69817.2/1

asym\_sam7\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.566 $\pm$ 0.813  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

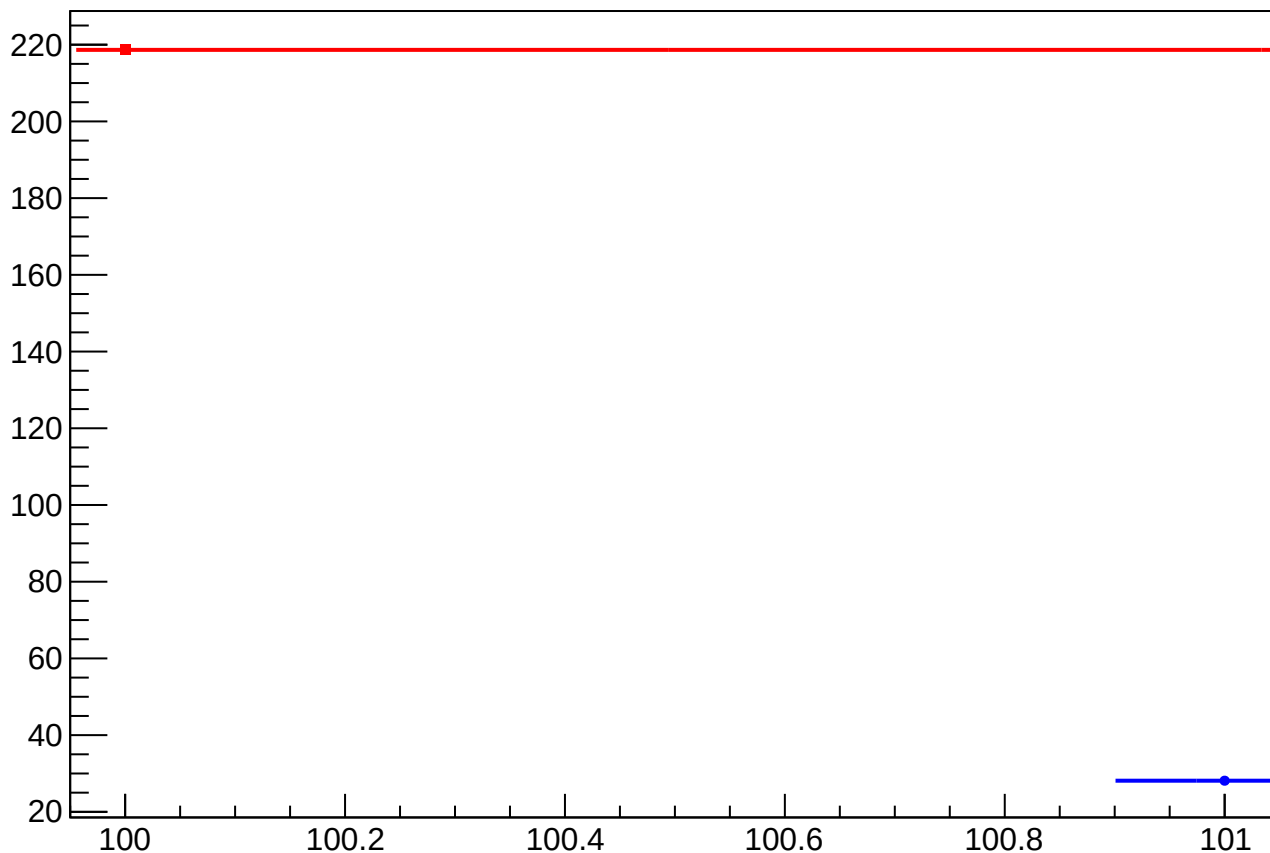
Right: 0.029 $\pm$ 0.036  $\chi^2$ /NDF: 3.9/1

In: 0.032 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.036  $\chi^2$ /NDF: 3.9/1

asym\_sam7\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.121+/-0.026  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 218.650+/-0.575  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 28.499+/-0.026  $\chi^2/\text{NDF}$ : 109672.4/1

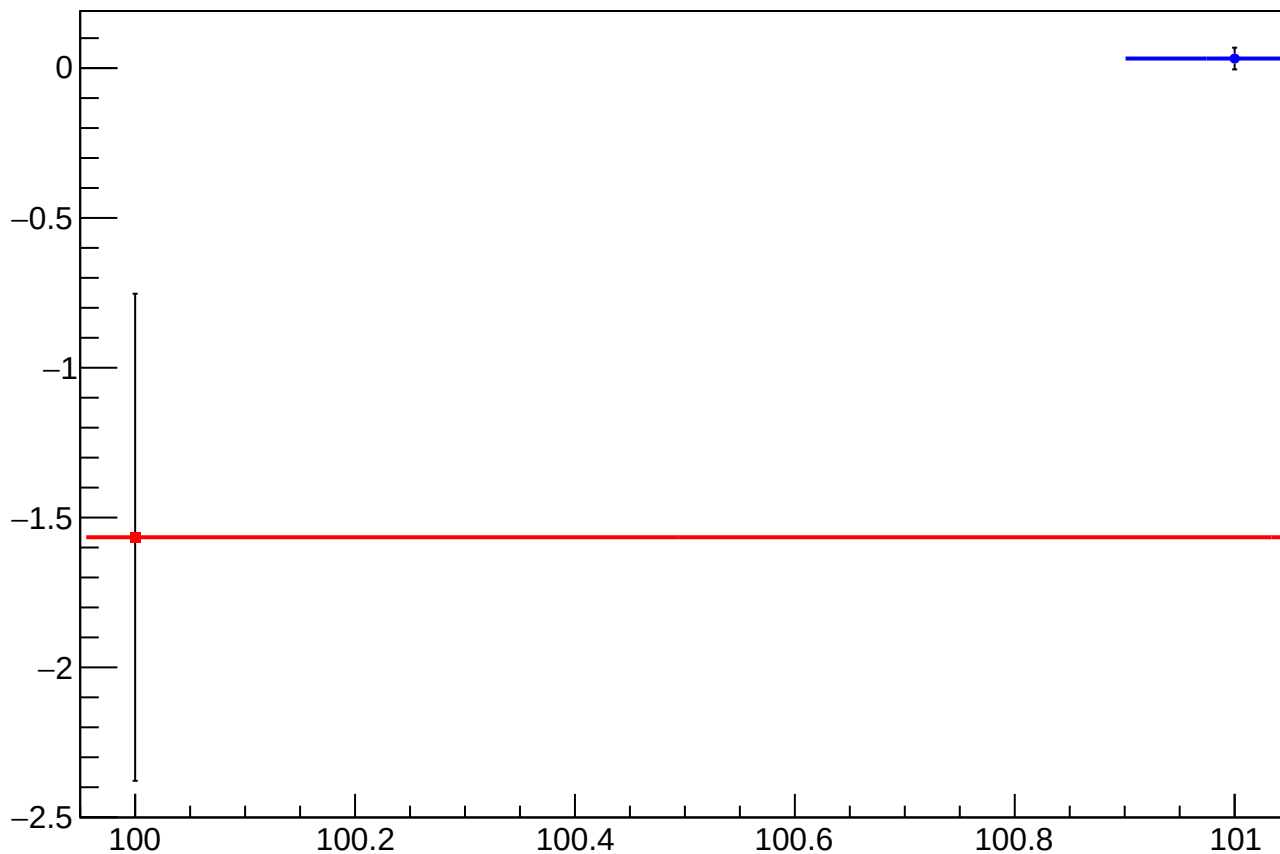
In: 28.121+/-0.026  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.499+/-0.026  $\chi^2/\text{NDF}$ : 109672.4/1



asym\_sam7\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.566 $\pm$ 0.813  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

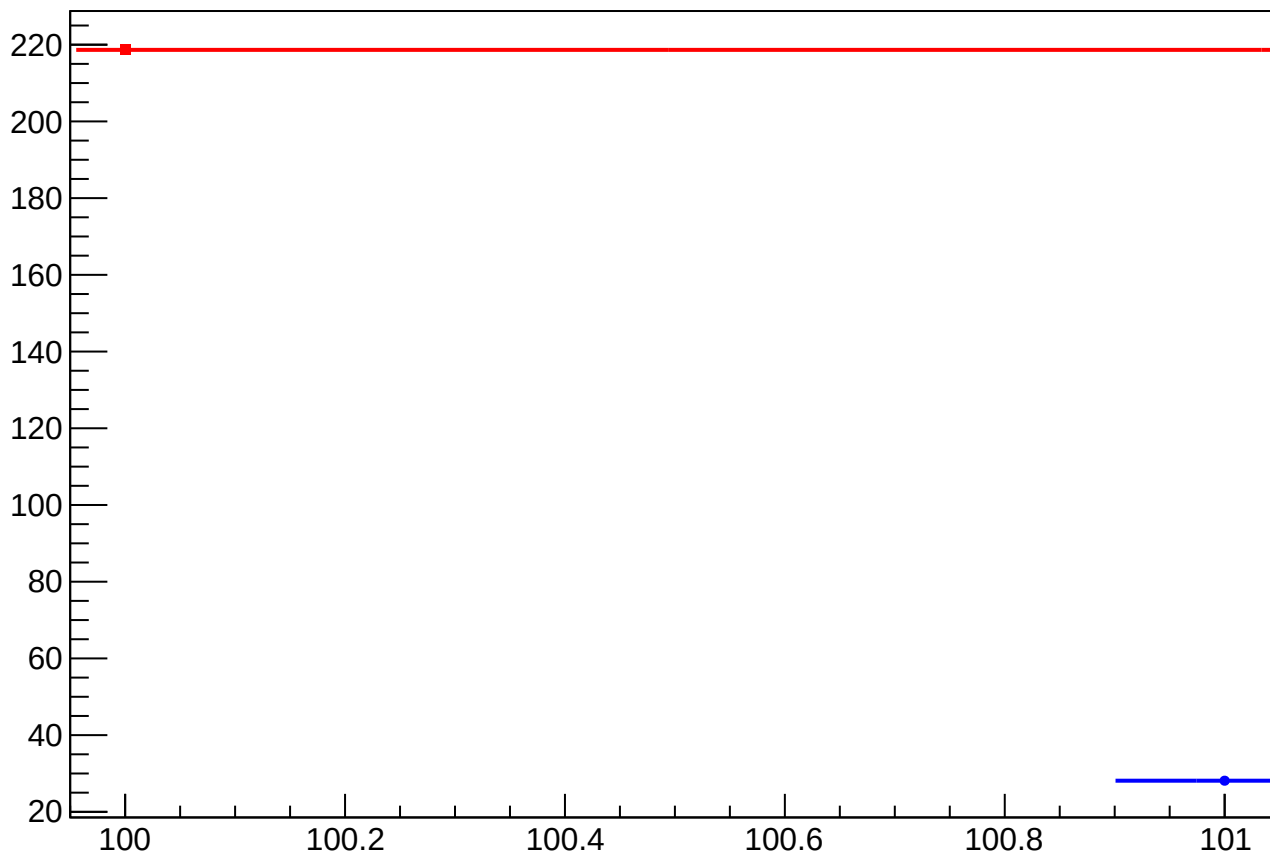
Right: 0.029 $\pm$ 0.036  $\chi^2$ /NDF: 3.9/1

In: 0.032 $\pm$ 0.036  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.029 $\pm$ 0.036  $\chi^2$ /NDF: 3.9/1

asym\_sam7\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.121+/-0.026  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 218.650+/-0.575  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

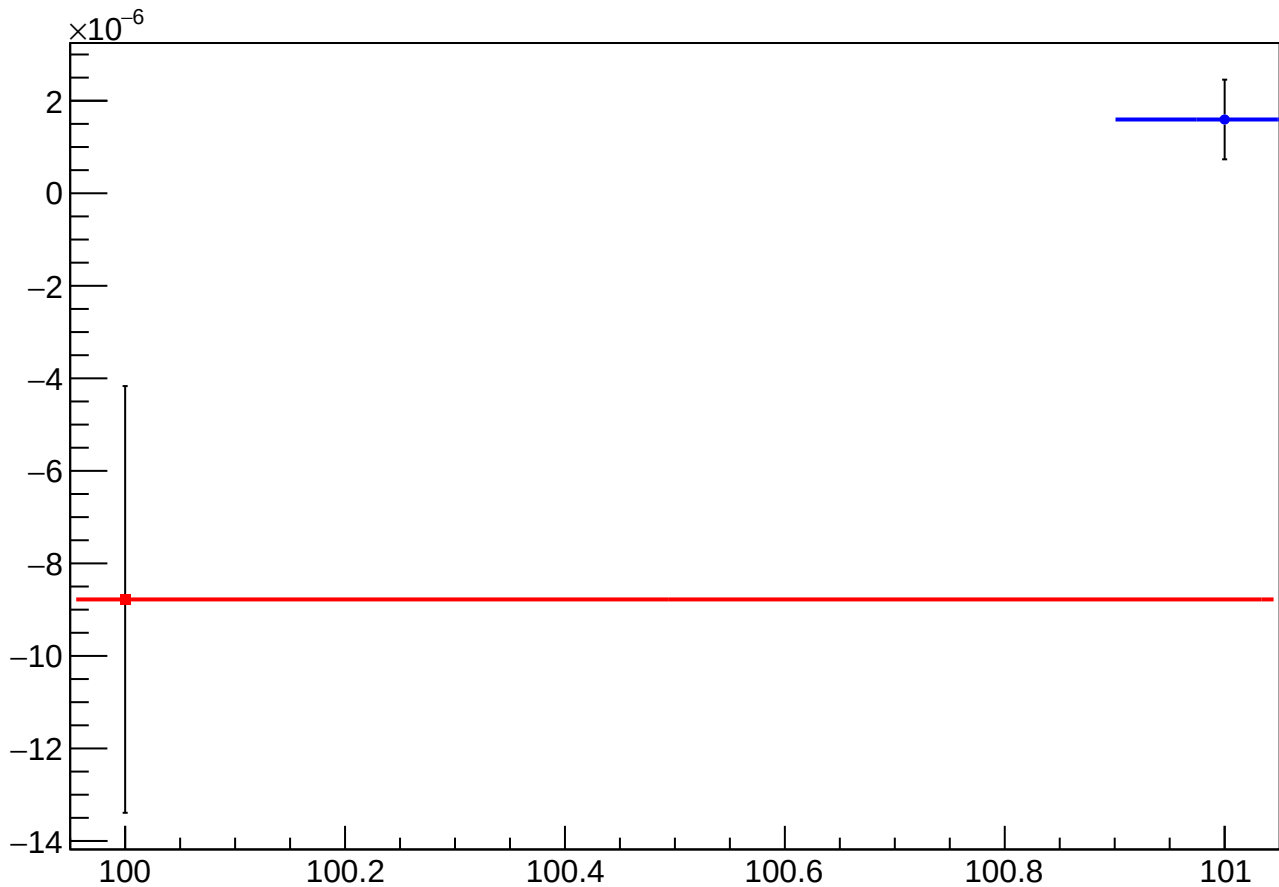
Right: 28.499+/-0.026  $\chi^2/\text{NDF}$ : 109672.4/1

In: 28.121+/-0.026  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.499+/-0.026  $\chi^2/\text{NDF}$ : 109672.4/1

asym\_sam7\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

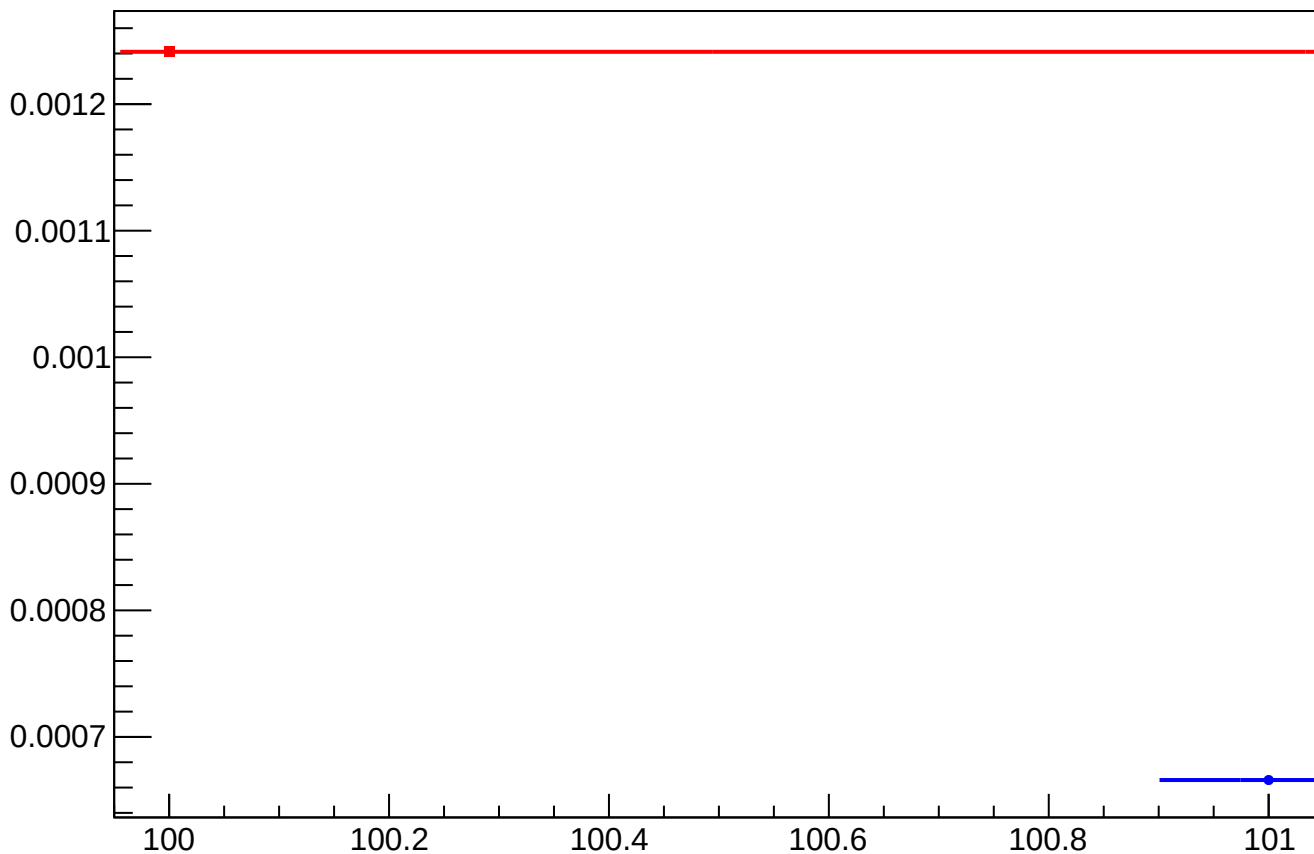
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.9/1

asym\_sam7\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

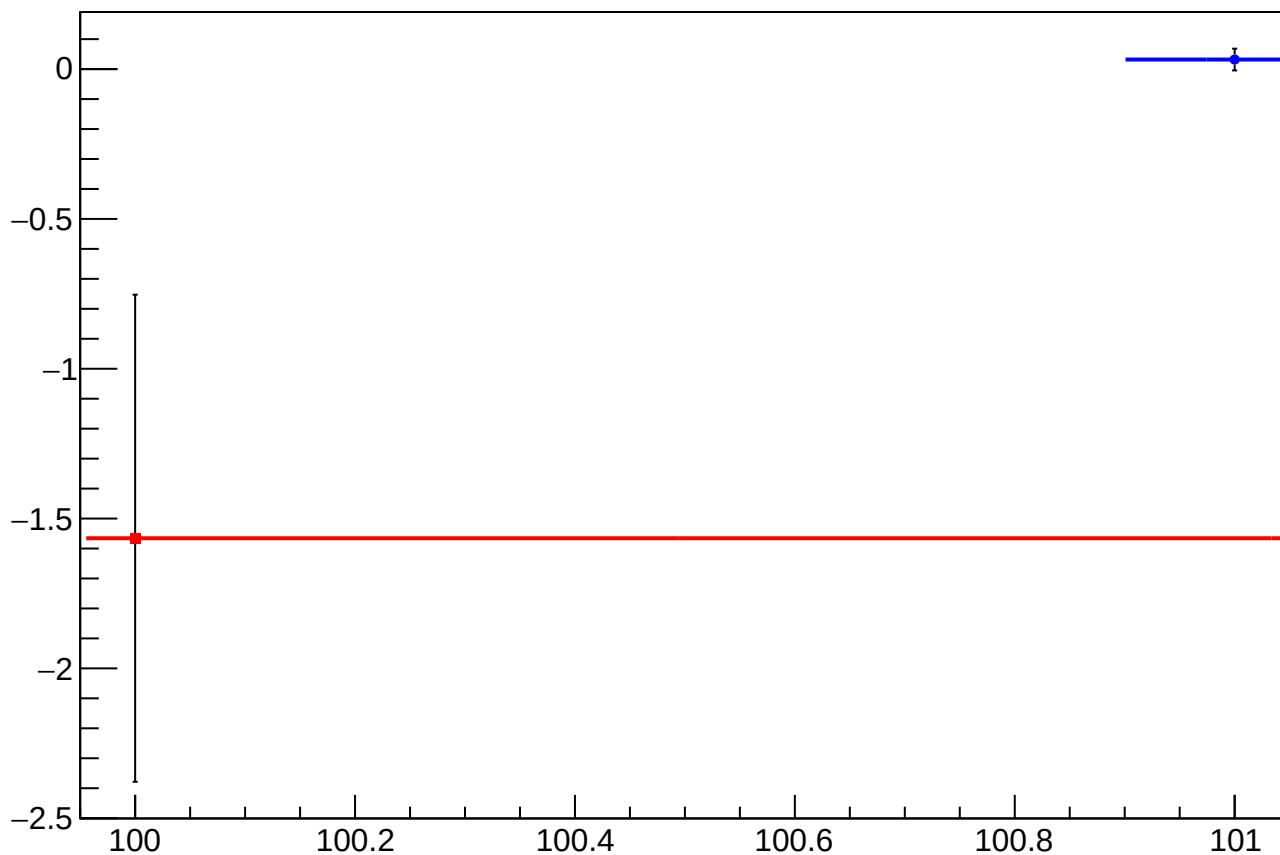
Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 30083.7/1

In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 30083.7/1

asym\_sam7\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.566 $\pm$ 0.813  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

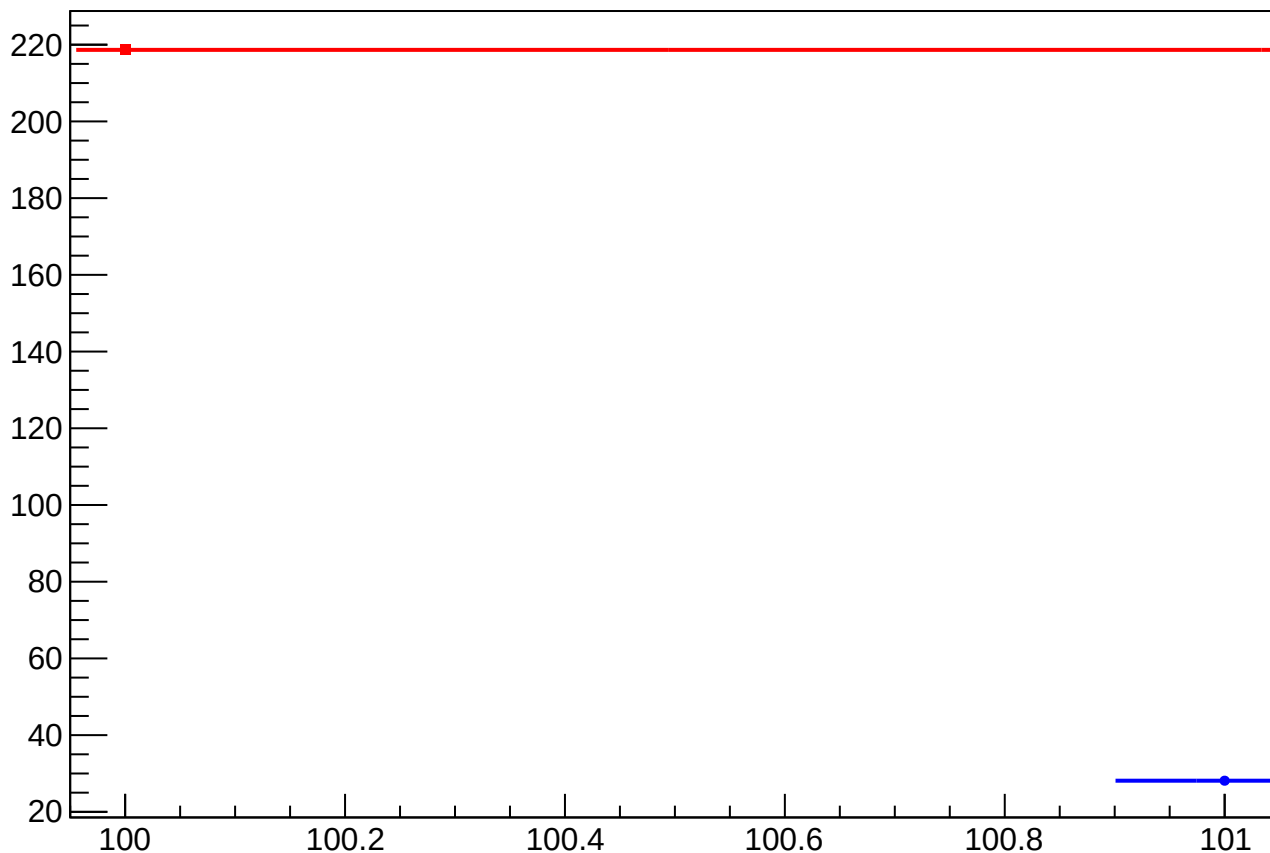
Right: 0.029 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 3.9/1

In: 0.032 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.029 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 3.9/1

asym\_sam7\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.121+/-0.026  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 218.651+/-0.575  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

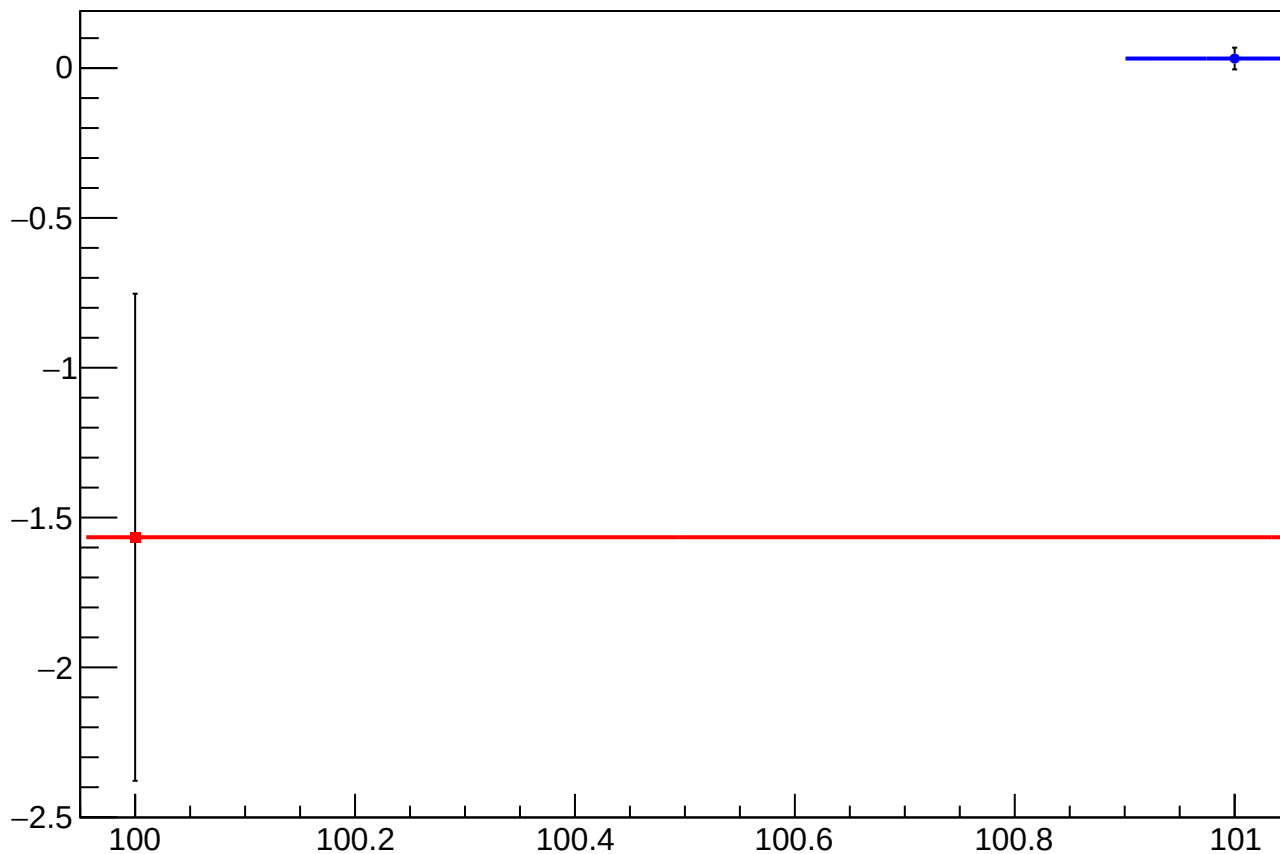
Right: 28.500+/-0.026  $\chi^2/\text{NDF}$ : 109671.9/1

In: 28.121+/-0.026  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.500+/-0.026  $\chi^2/\text{NDF}$ : 109671.9/1

asym\_sam7\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.032 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.566 $\pm$ 0.813  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

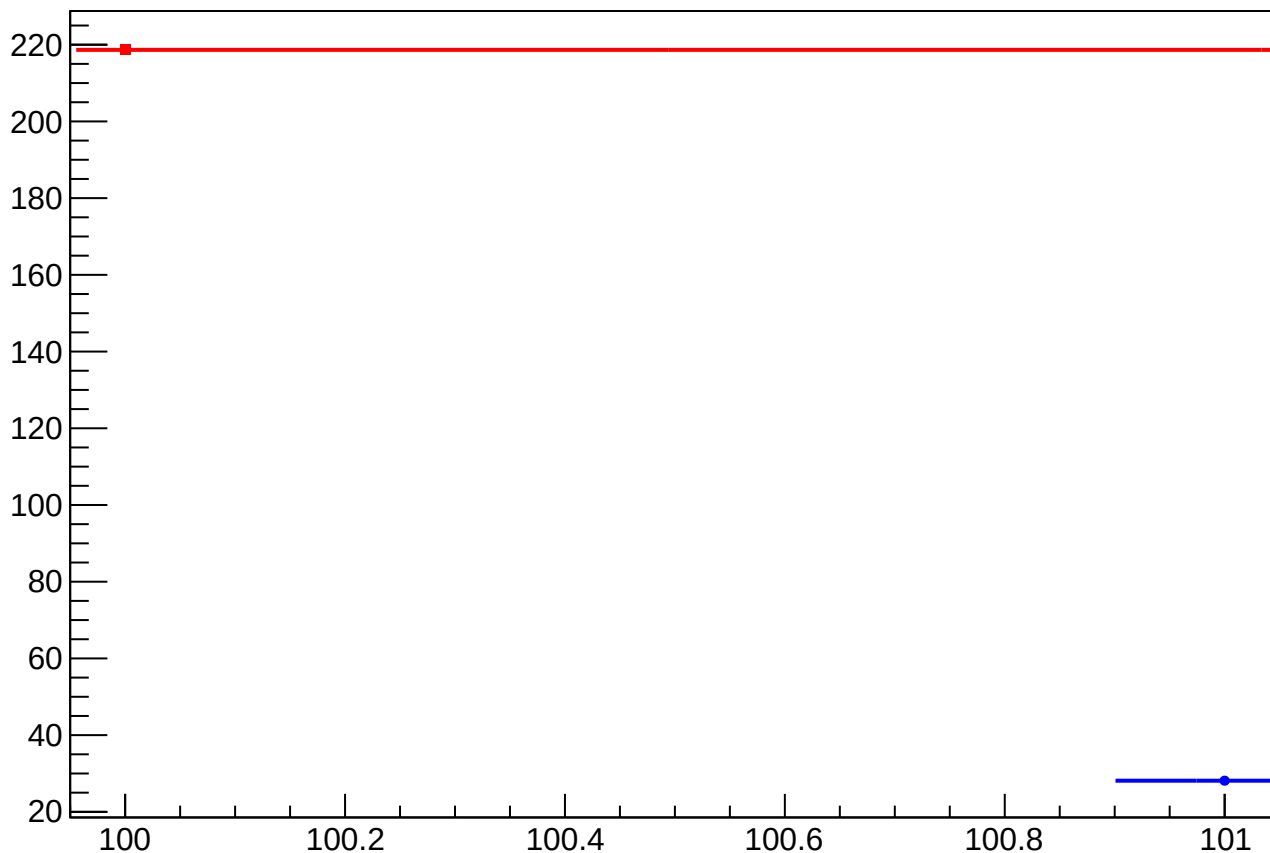
Right: 0.029 $\pm$ 0.036  $\chi^2$ /NDF: 3.9/1

In: 0.032 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.029 $\pm$ 0.036  $\chi^2$ /NDF: 3.9/1

asym\_sam7\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.121+/-0.026  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 218.651+/-0.575  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 28.500+/-0.026  $\chi^2/\text{NDF}$ : 109671.9/1

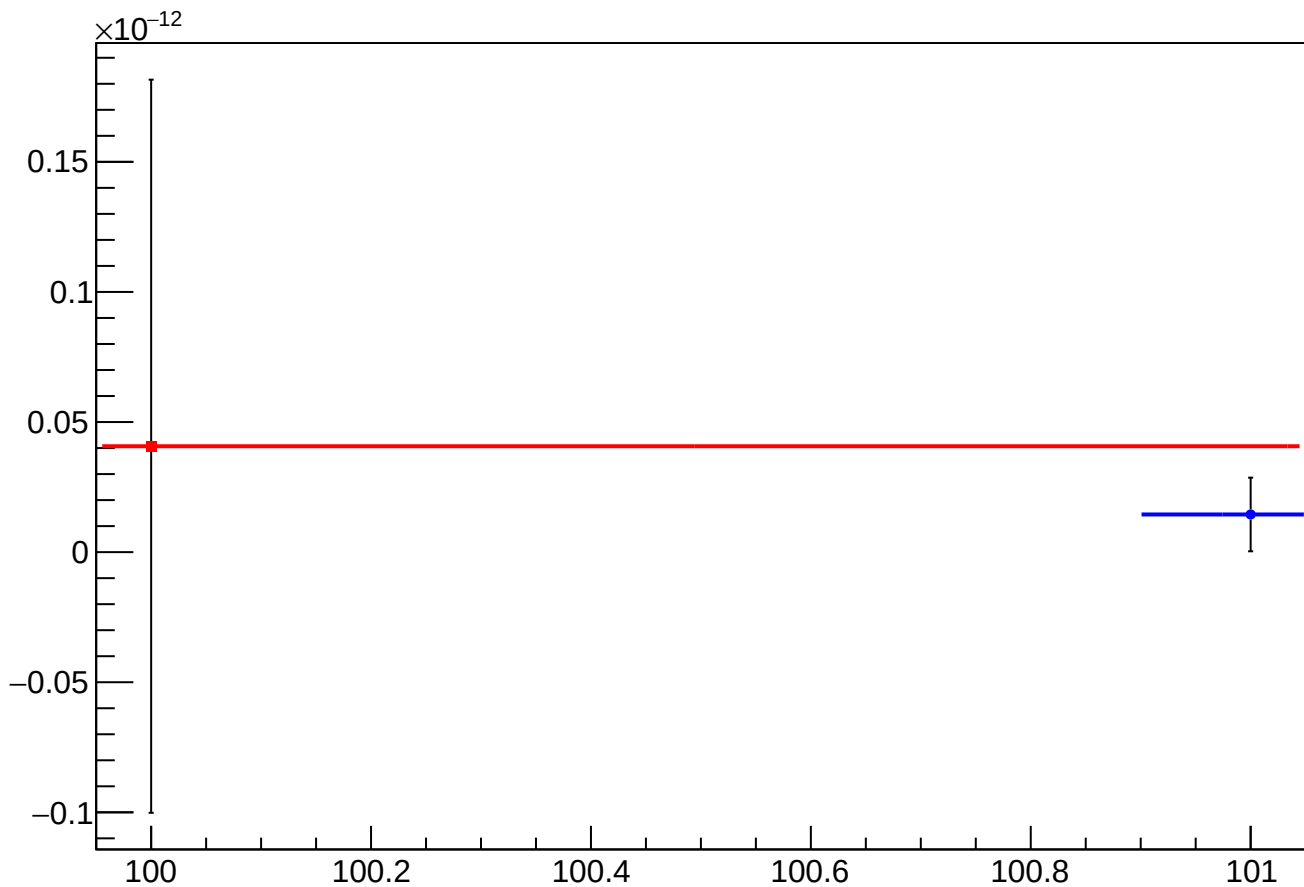
In: 28.121+/-0.026  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.500+/-0.026  $\chi^2/\text{NDF}$ : 109671.9/1



asym\_sam7\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

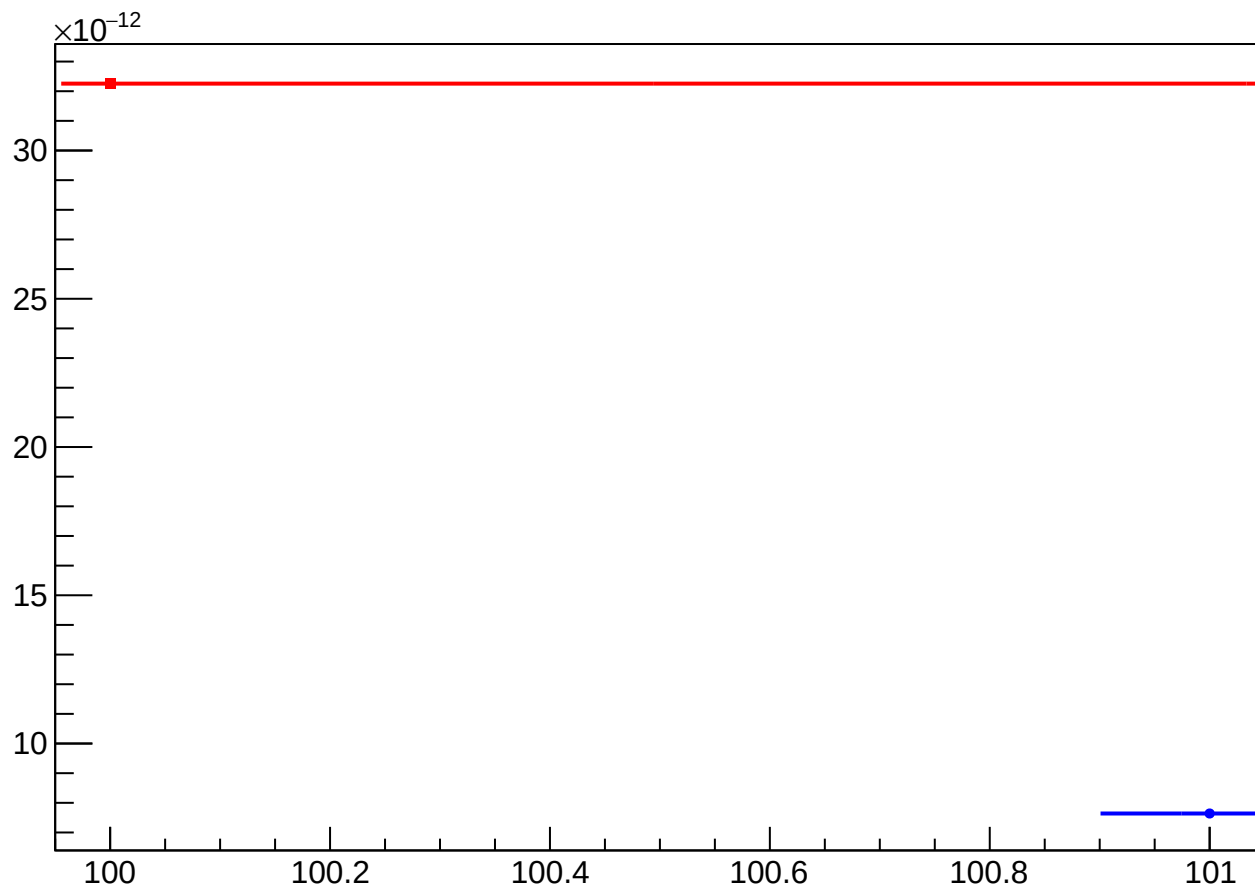
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam7\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

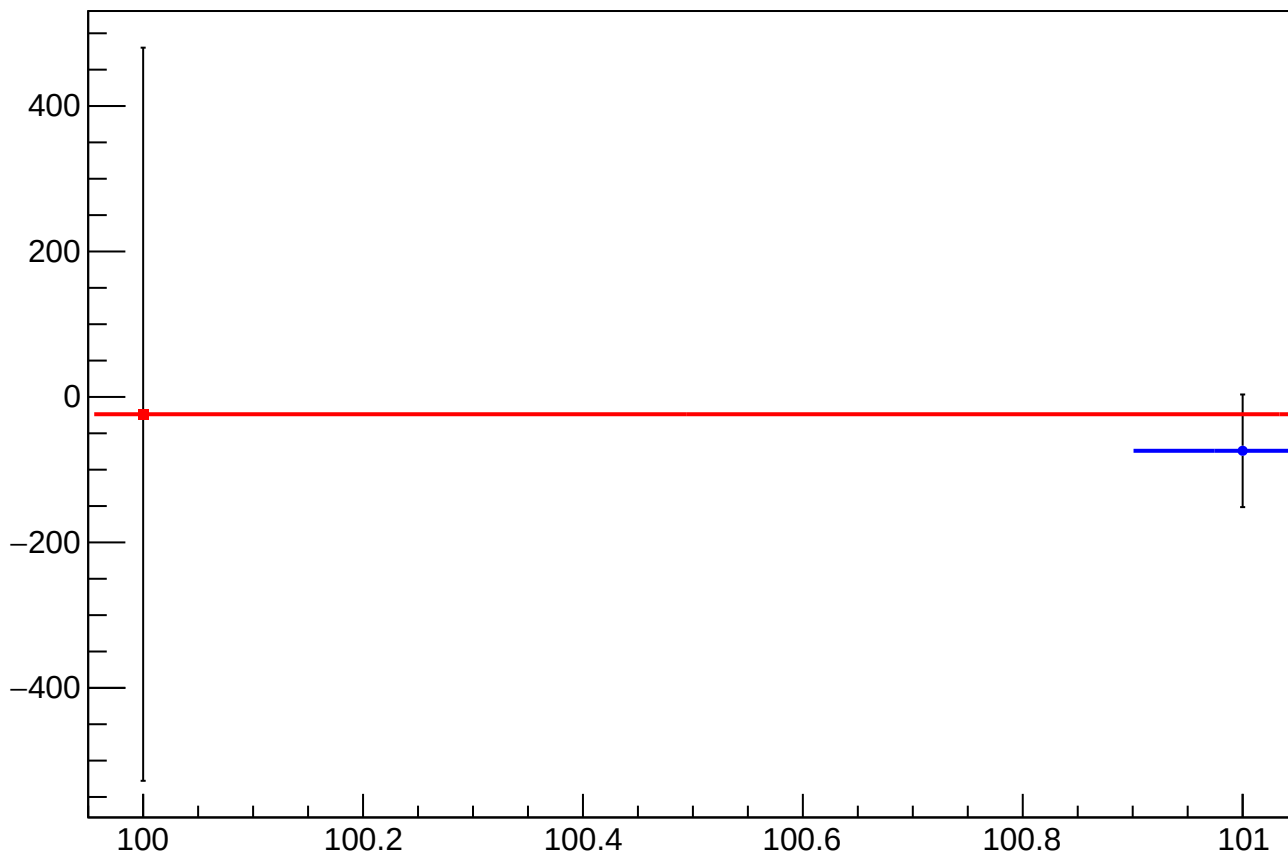
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 60446.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 60446.7/1

# reg\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -74.041+/-77.431  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -23.770+/-503.994  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

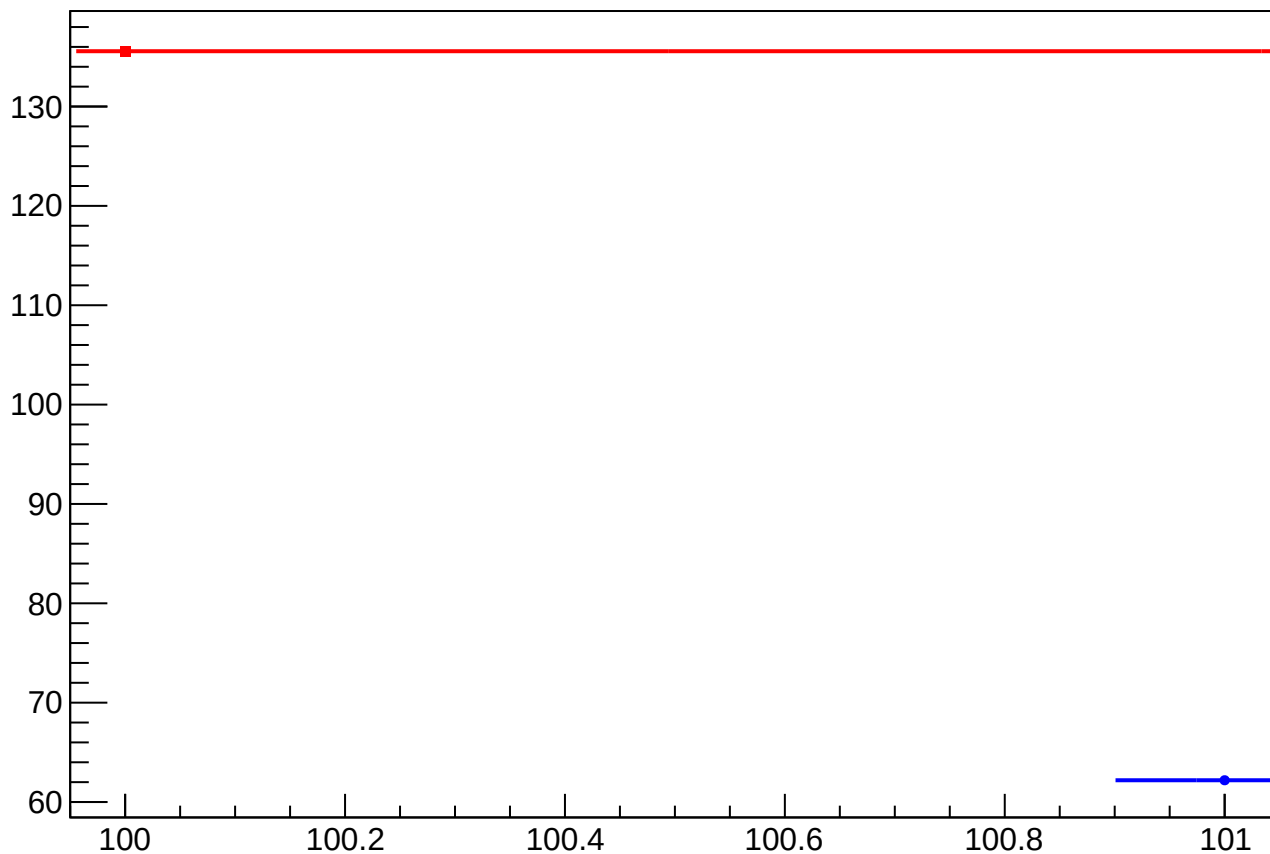
Right: -72.882+/-76.533  $\chi^2$ /NDF: 0.0/1

In: -74.041+/-77.431  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -72.882+/-76.533  $\chi^2$ /NDF: 0.0/1

# reg\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 62.191+/-0.055  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 135.567+/-0.356  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

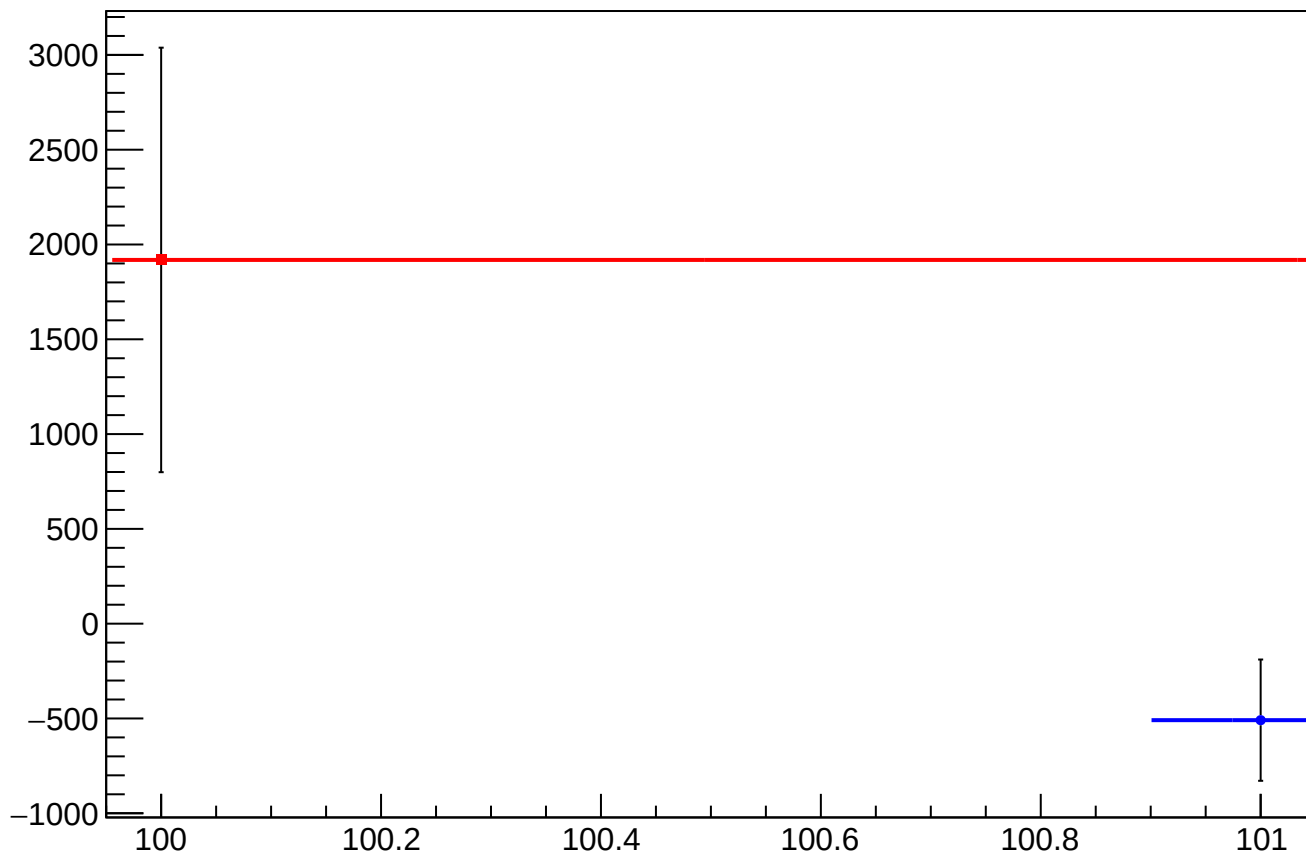
Right: 63.883+/-0.054  $\chi^2/\text{NDF}$ : 41414.4/1

In: 62.191+/-0.055  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 63.883+/-0.054  $\chi^2/\text{NDF}$ : 41414.4/1

asym\_sam8\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -508.977+/-319.851  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1918.619+/-1119.597  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

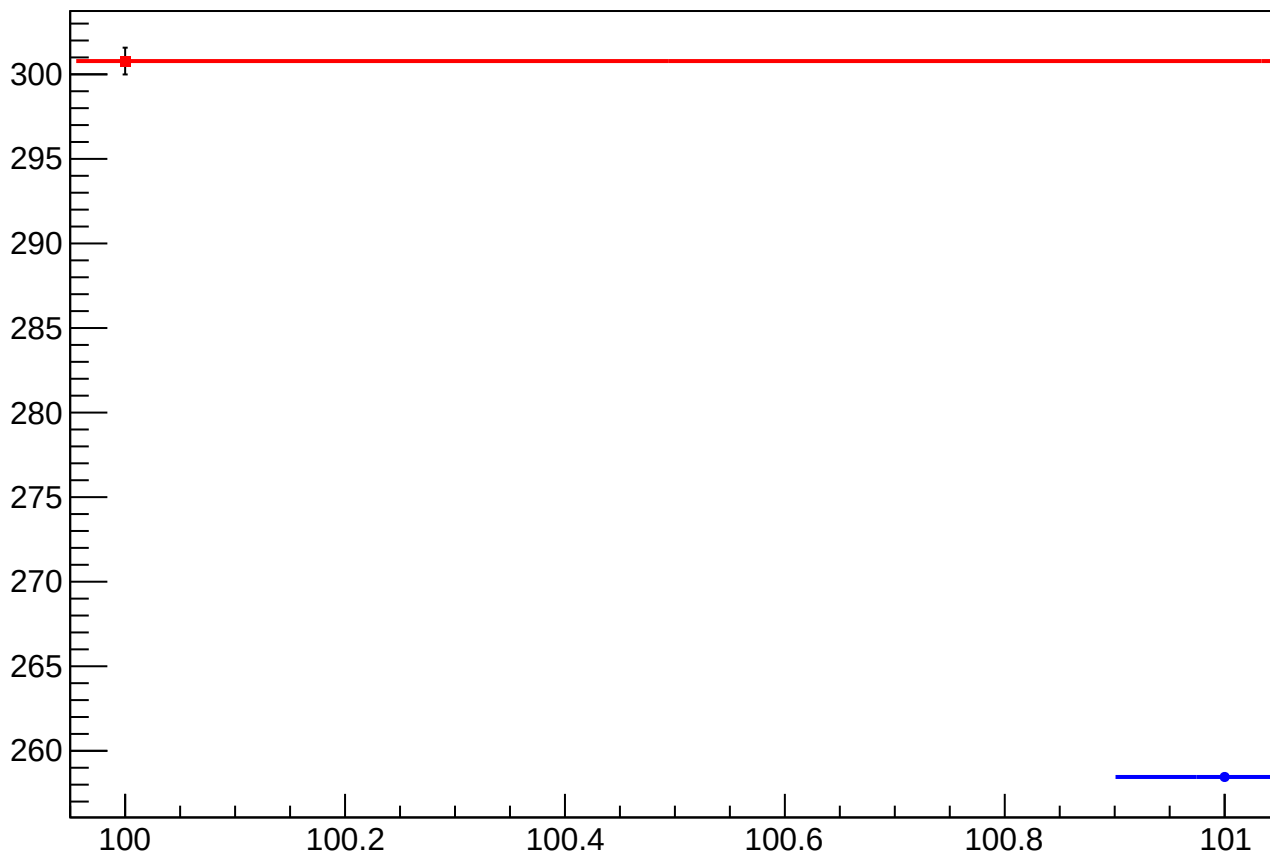
Right: -325.798+/-307.547  $\chi^2/\text{NDF}$ : 4.3/1

In: -508.977+/-319.851  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -325.798+/-307.547  $\chi^2/\text{NDF}$ : 4.3/1

asym\_sam8\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 258.454+/-0.226  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 300.785+/-0.792  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

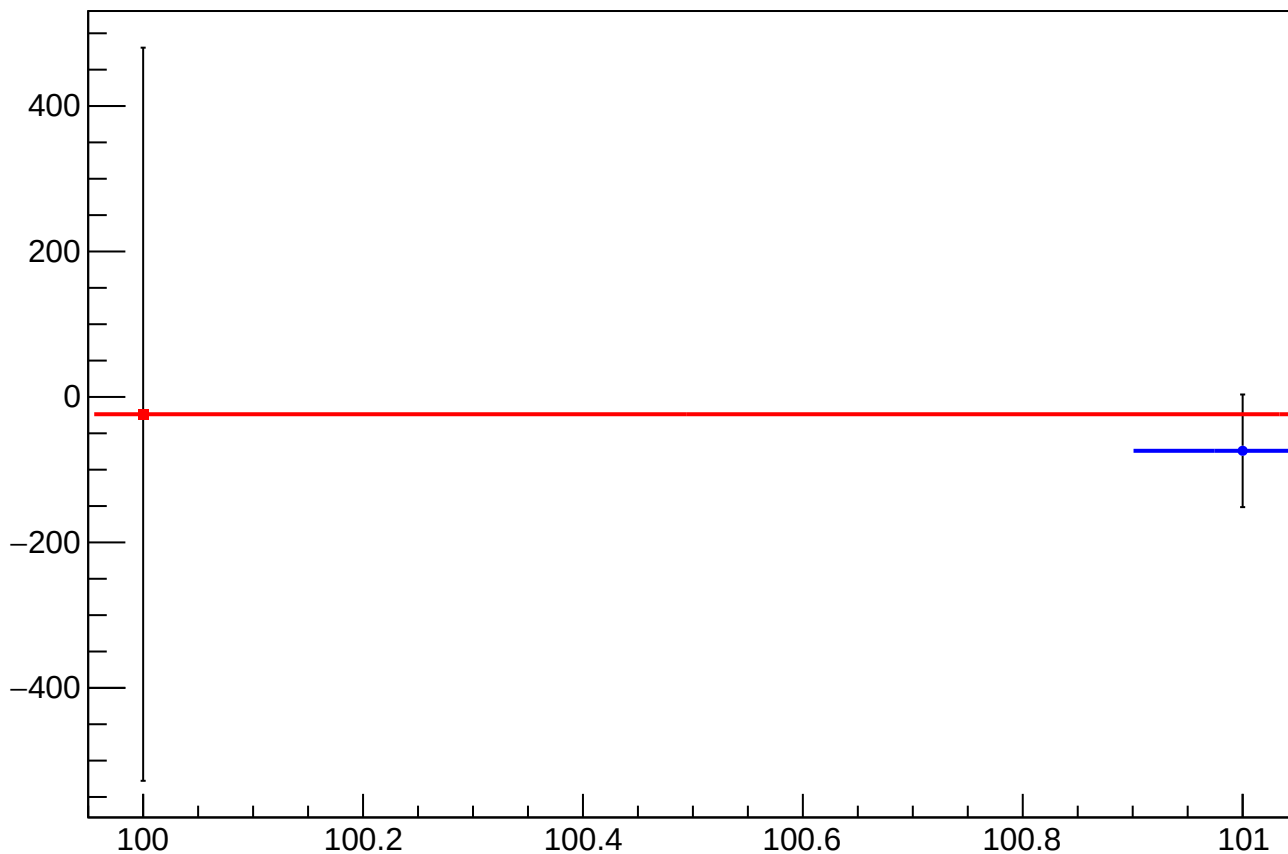
Right: 261.649+/-0.217  $\chi^2/\text{NDF}$ : 2643.2/1

In: 258.454+/-0.226  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 261.649+/-0.217  $\chi^2/\text{NDF}$ : 2643.2/1

# cor\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -74.050+/-77.431  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -23.766+/-503.994  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

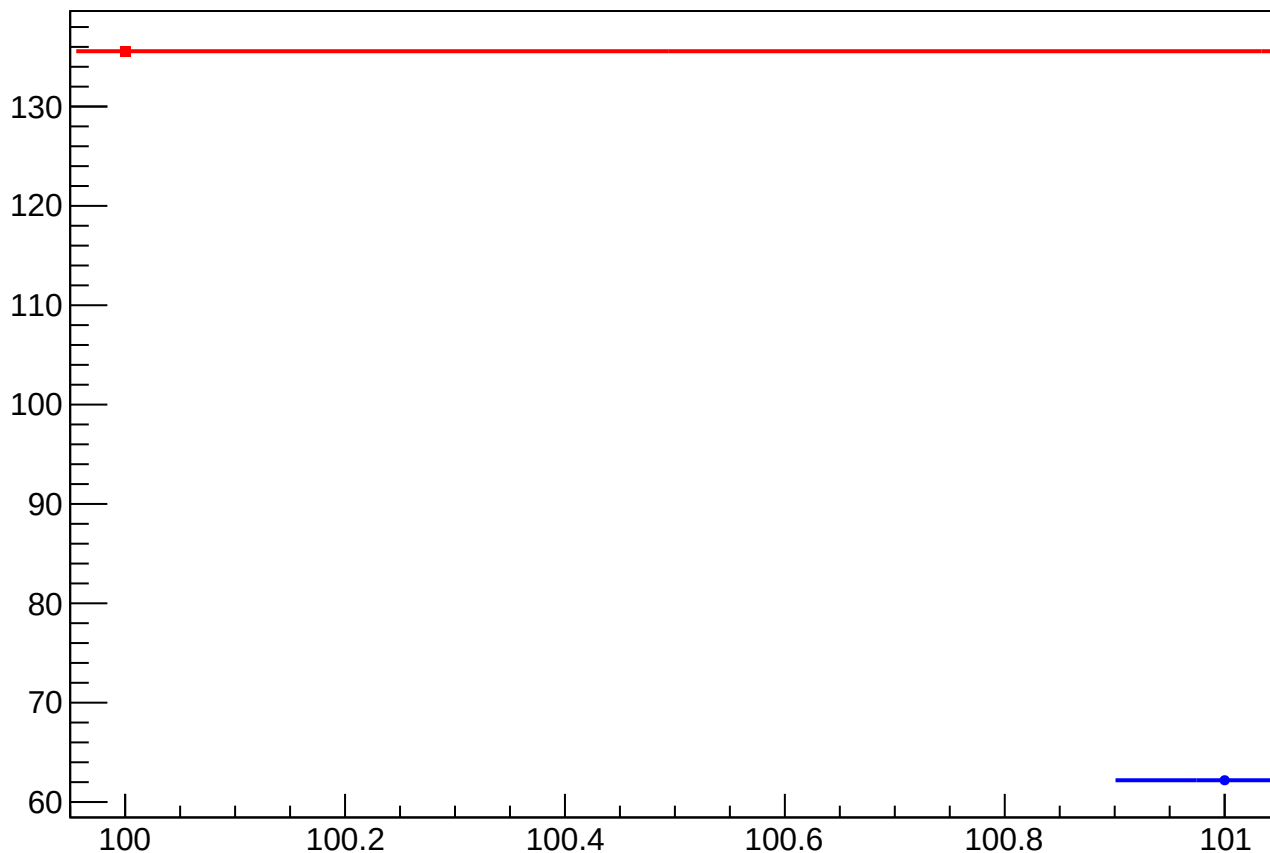
Right: -72.890+/-76.533  $\chi^2/\text{NDF}$ : 0.0/1

In: -74.050+/-77.431  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -72.890+/-76.533  $\chi^2/\text{NDF}$ : 0.0/1

# cor\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 62.191+/-0.055  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 135.567+/-0.356  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 63.883+/-0.054  $\chi^2/\text{NDF}$ : 41414.4/1

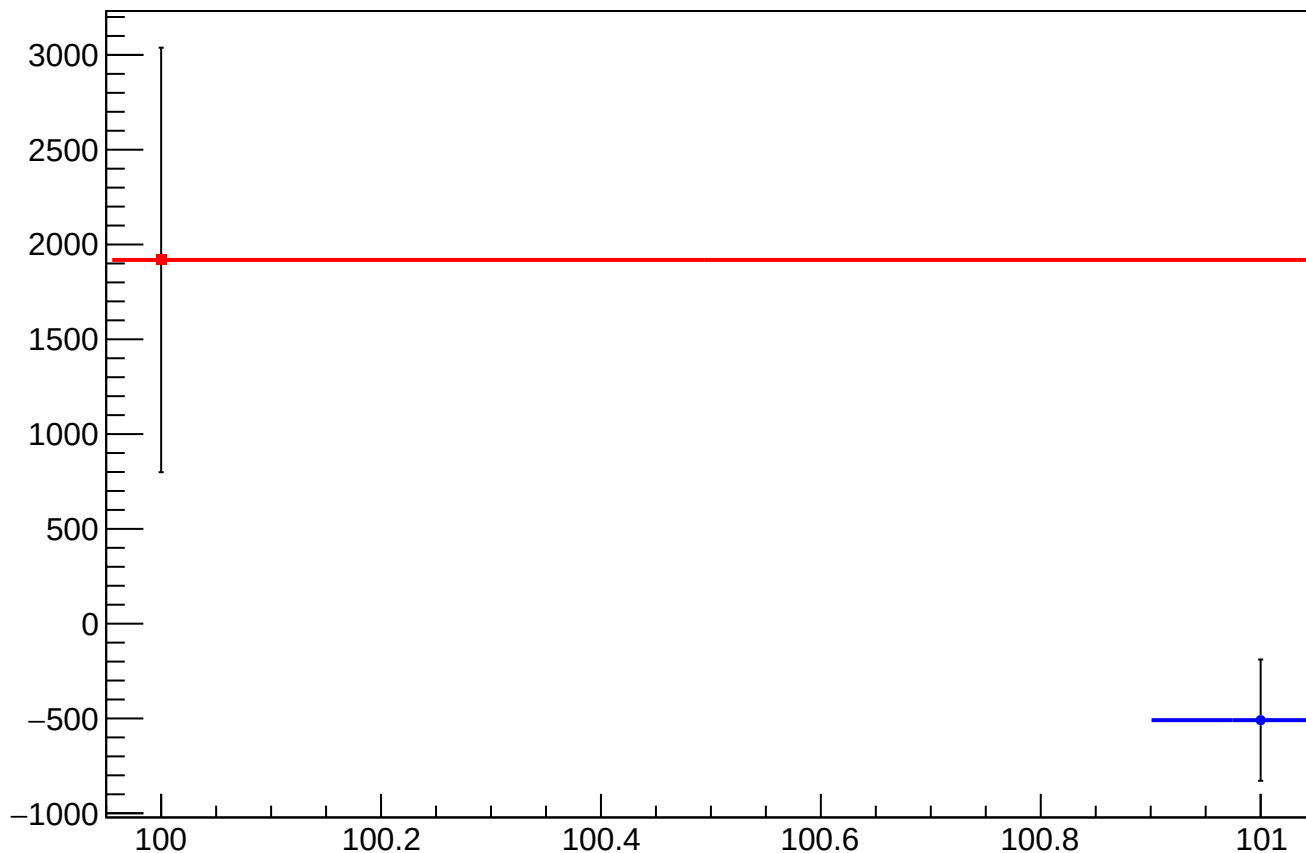
In: 62.191+/-0.055  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 63.883+/-0.054  $\chi^2/\text{NDF}$ : 41414.4/1



asym\_sam8\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -508.966+/-319.851  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1918.618+/-1119.598  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

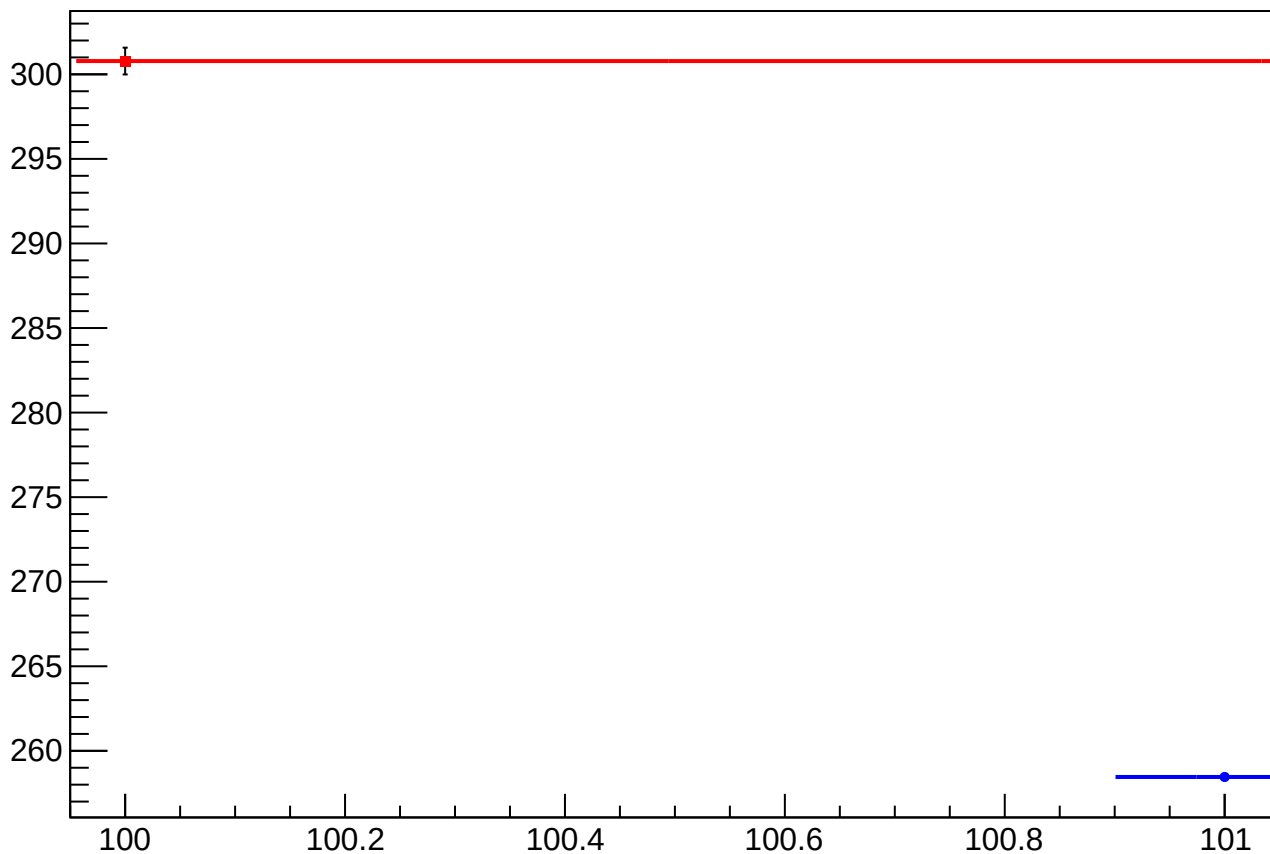
Right: -325.788+/-307.547  $\chi^2$ /NDF: 4.3/1

In: -508.966+/-319.851  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -325.788+/-307.547  $\chi^2$ /NDF: 4.3/1

asym\_sam8\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 258.455+/-0.226  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 300.785+/-0.792  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

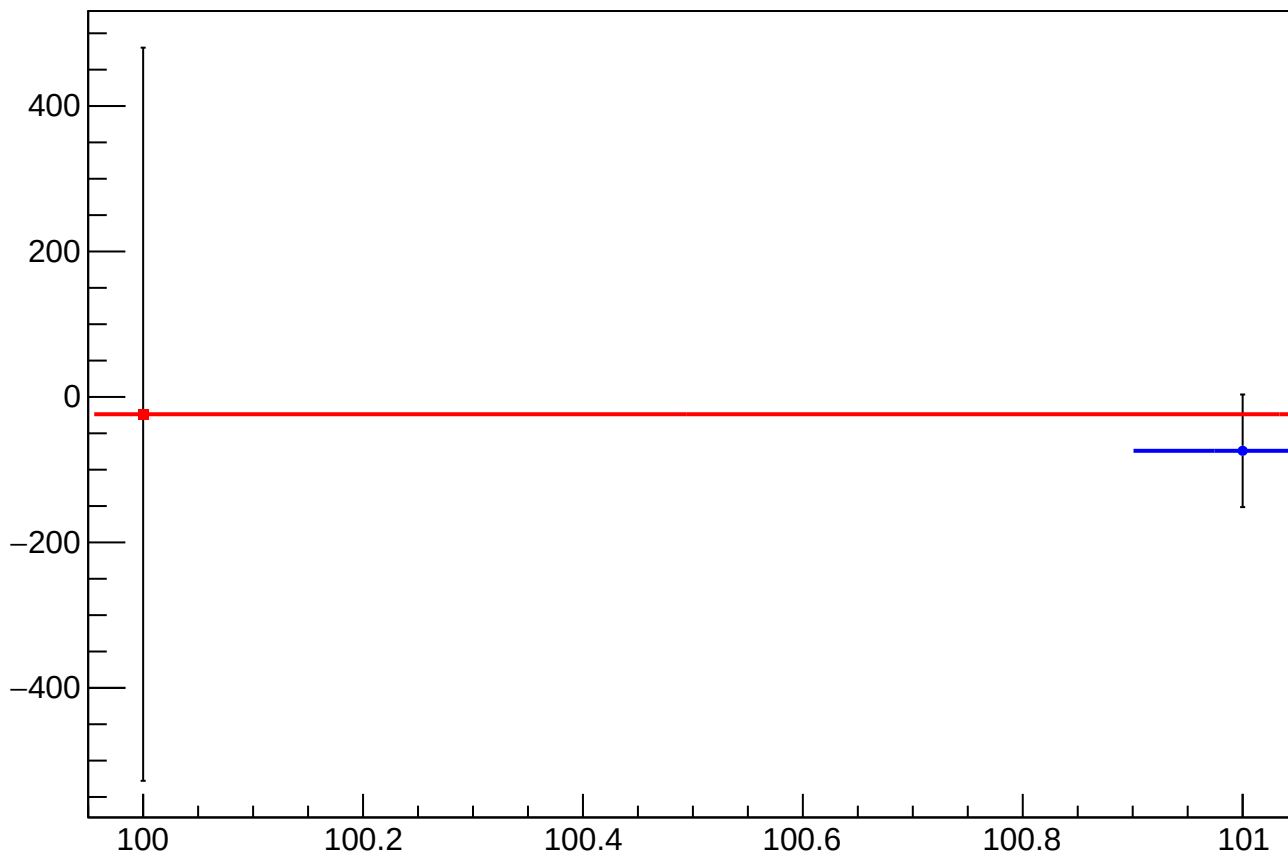
Right: 261.649+/-0.217  $\chi^2/\text{NDF}$ : 2643.2/1

In: 258.455+/-0.226  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 261.649+/-0.217  $\chi^2/\text{NDF}$ : 2643.2/1

eigen\_cor\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -74.050+/-77.431  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -23.766+/-503.994  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

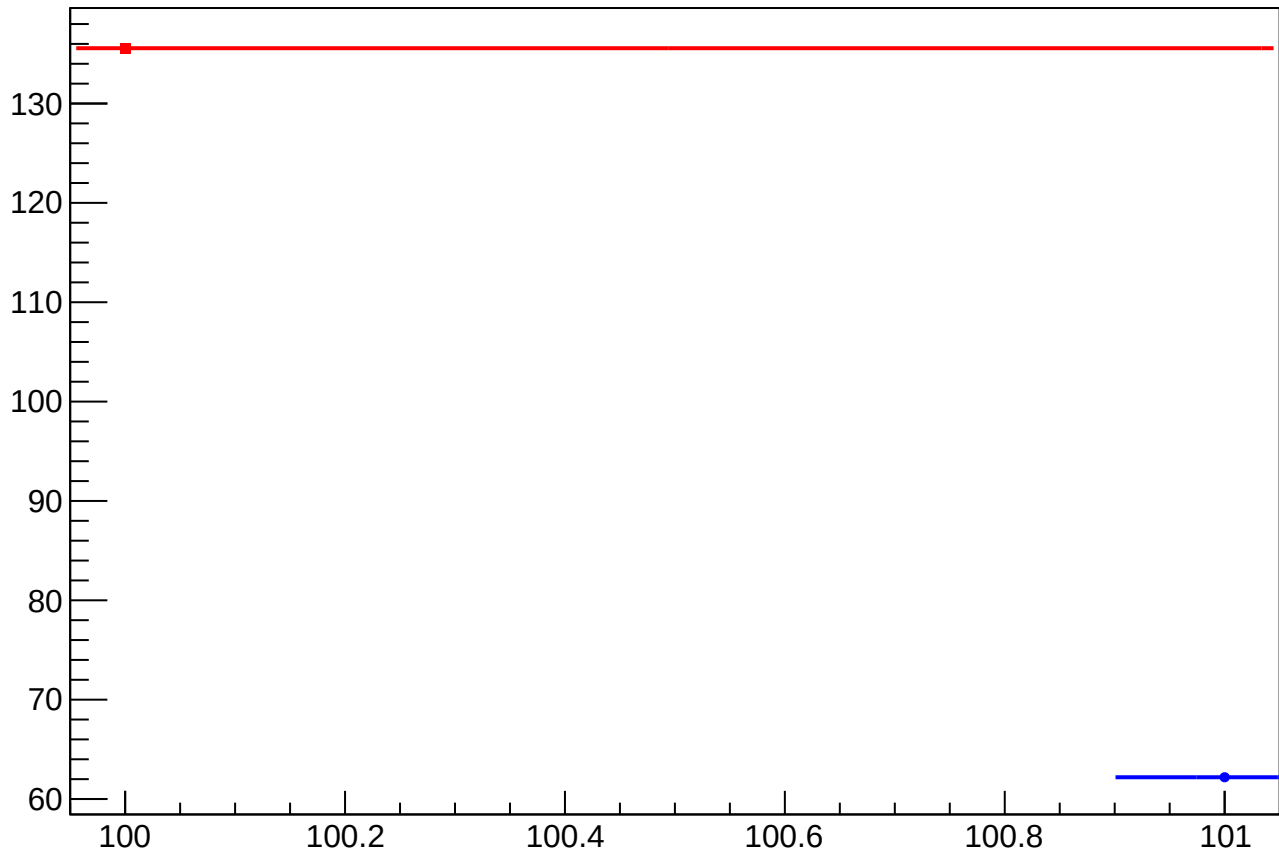
Right: -72.890+/-76.533  $\chi^2$ /NDF: 0.0/1

In: -74.050+/-77.431  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -72.890+/-76.533  $\chi^2$ /NDF: 0.0/1

eigen\_cor\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 62.191 $\pm$ 0.055  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.567 $\pm$ 0.356  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

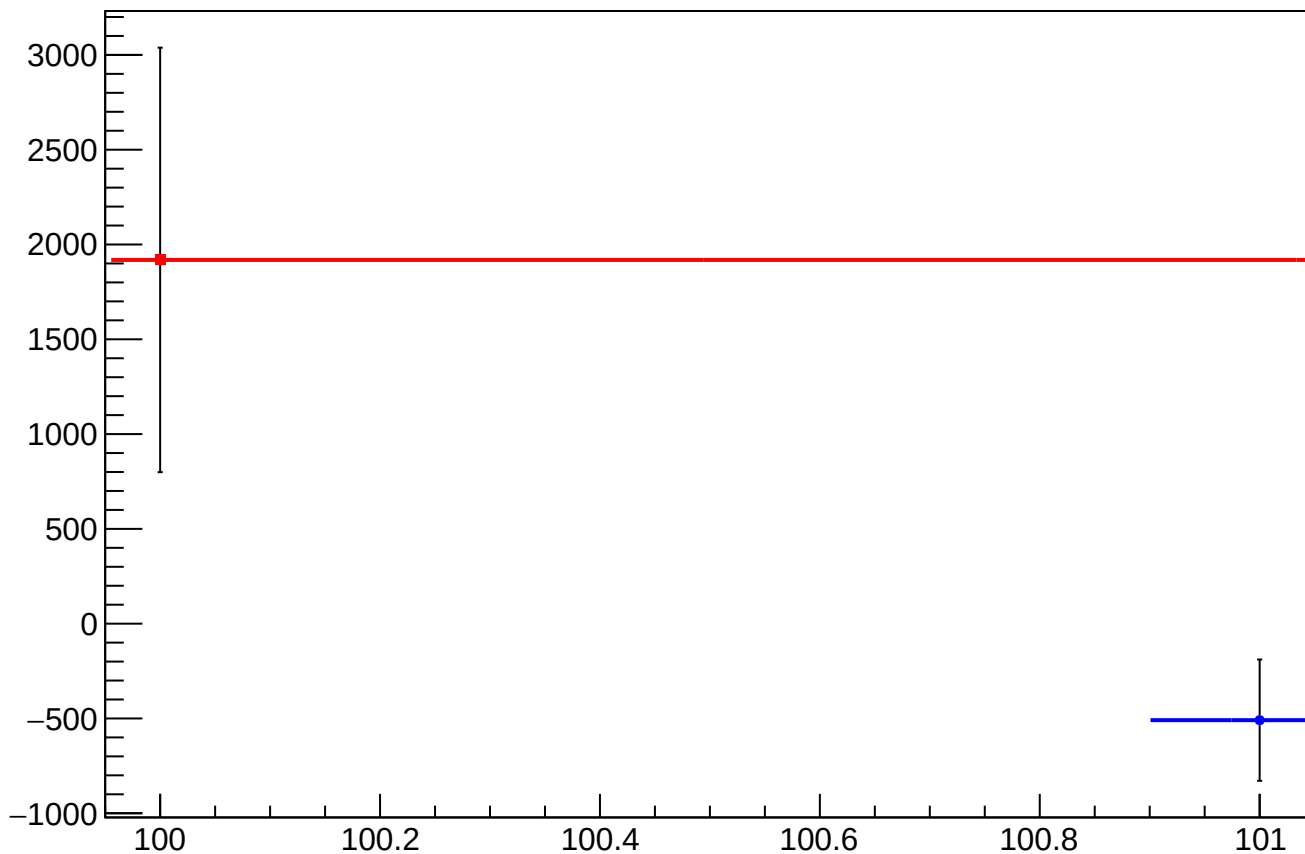
Right: 63.883 $\pm$ 0.054  $\chi^2$ /NDF: 41414.4/1

In: 62.191 $\pm$ 0.055  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.883 $\pm$ 0.054  $\chi^2$ /NDF: 41414.4/1

asym\_sam8\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -508.966+/-319.851  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1918.618+/-1119.598  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

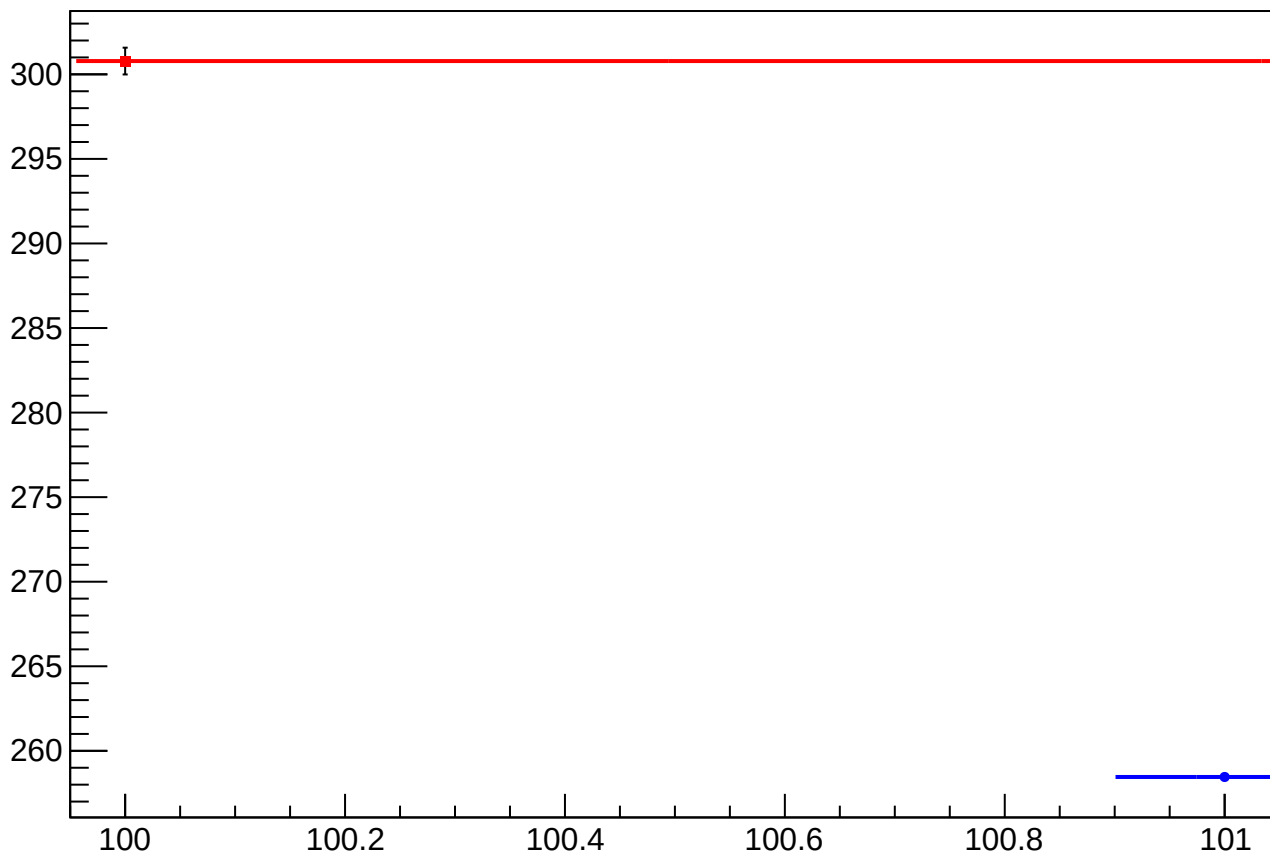
Right: -325.788+/-307.547  $\chi^2/\text{NDF}$ : 4.3/1

In: -508.966+/-319.851  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -325.788+/-307.547  $\chi^2/\text{NDF}$ : 4.3/1

asym\_sam8\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 258.455+/-0.226  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 300.785+/-0.792  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

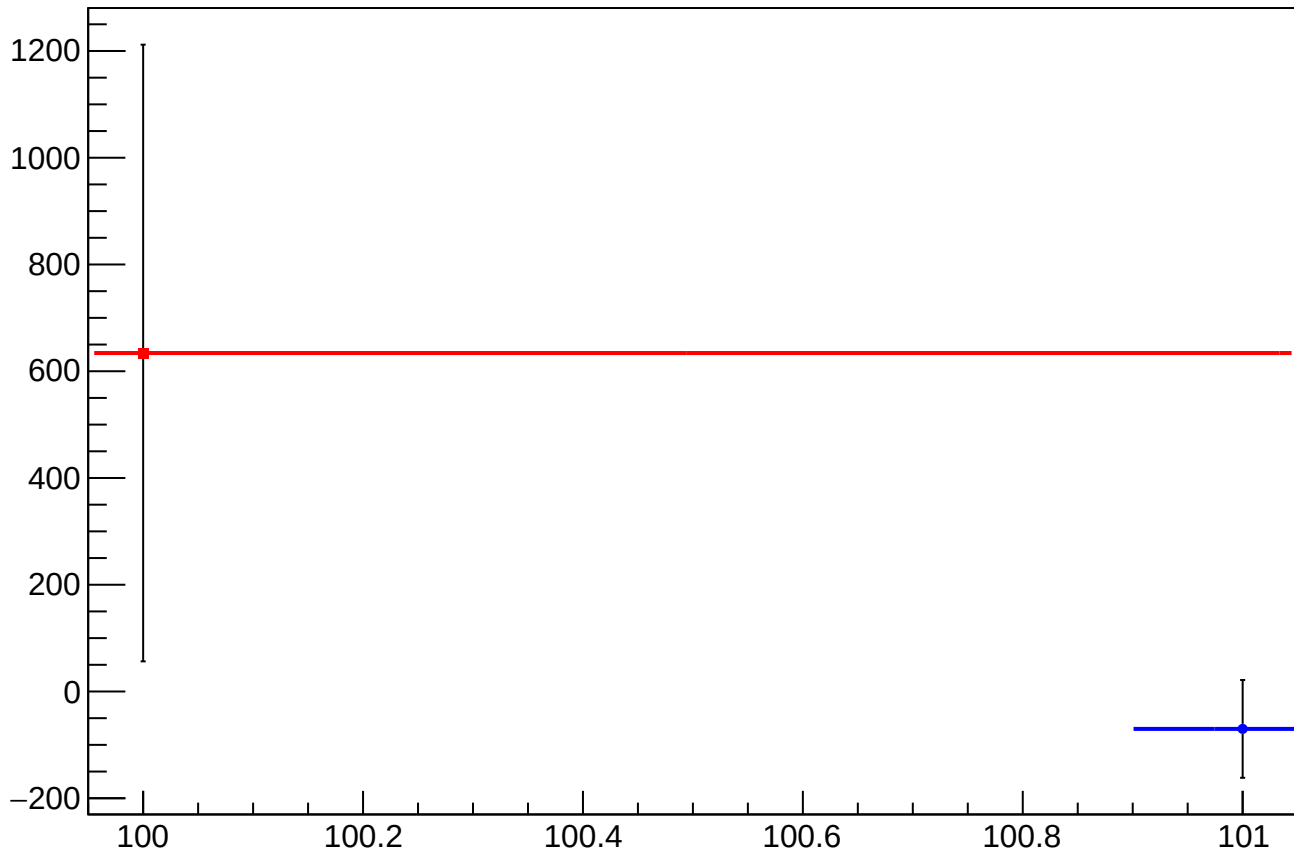
Right: 261.649+/-0.217  $\chi^2/\text{NDF}$ : 2643.2/1

In: 258.455+/-0.226  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 261.649+/-0.217  $\chi^2/\text{NDF}$ : 2643.2/1

# dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -70.085+/-91.613  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 634.145+/-577.684  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

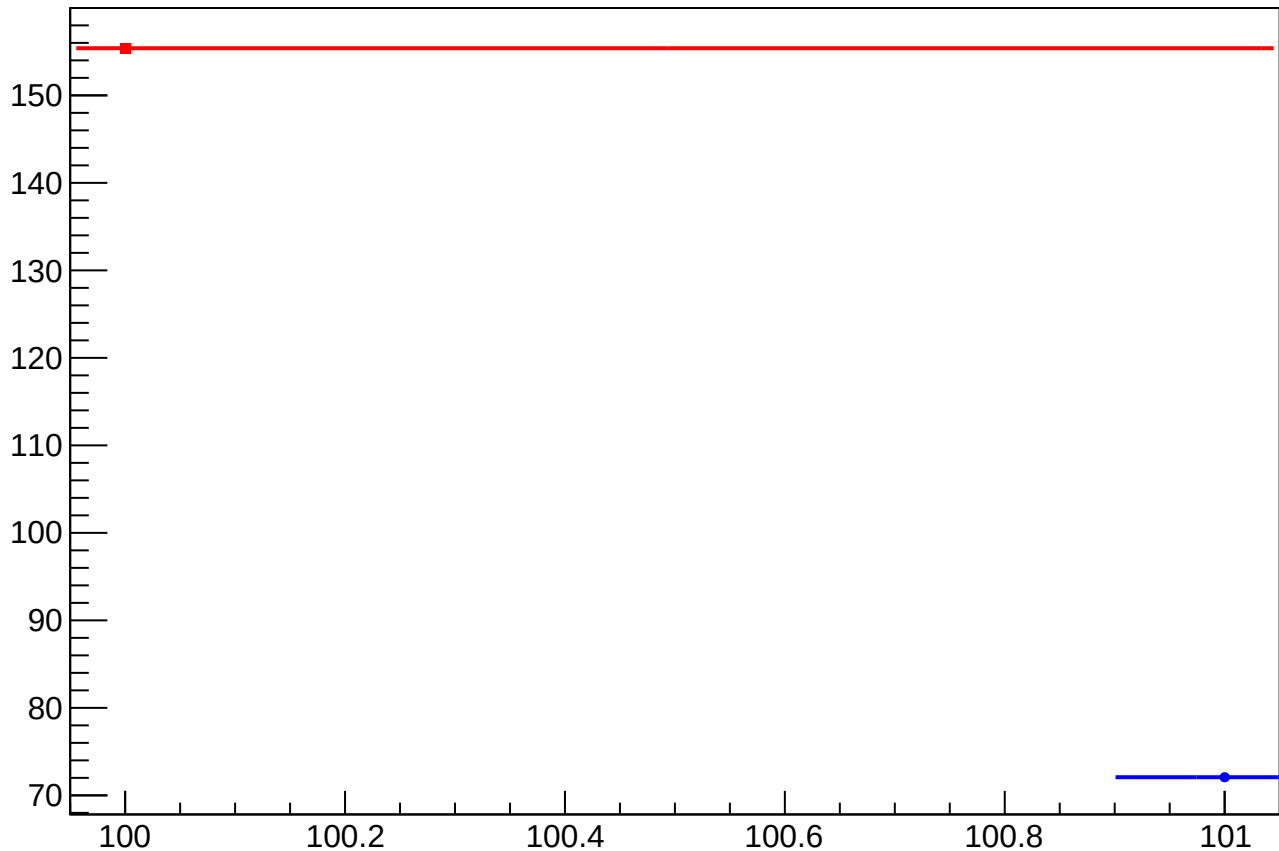
Right: -52.808+/-90.483  $\chi^2$ /NDF: 1.4/1

In: -70.085+/-91.613  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -52.808+/-90.483  $\chi^2$ /NDF: 1.4/1

# dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 72.073+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 155.386+/-0.408  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 74.117+/-0.064  $\chi^2/\text{NDF}$ : 40577.5/1

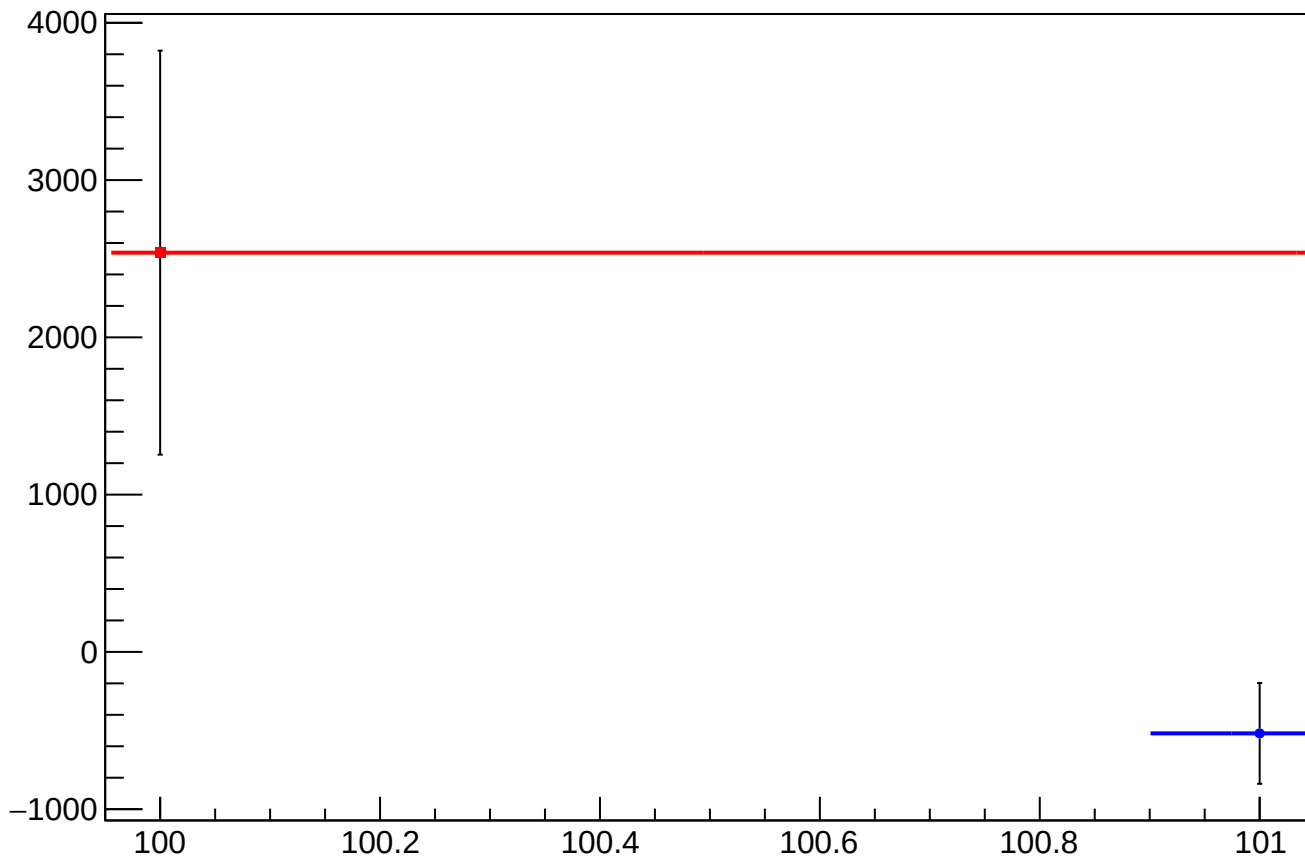
In: 72.073+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.117+/-0.064  $\chi^2/\text{NDF}$ : 40577.5/1



asym\_sam8\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -518.087+/-320.539  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2538.440+/-1284.412  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

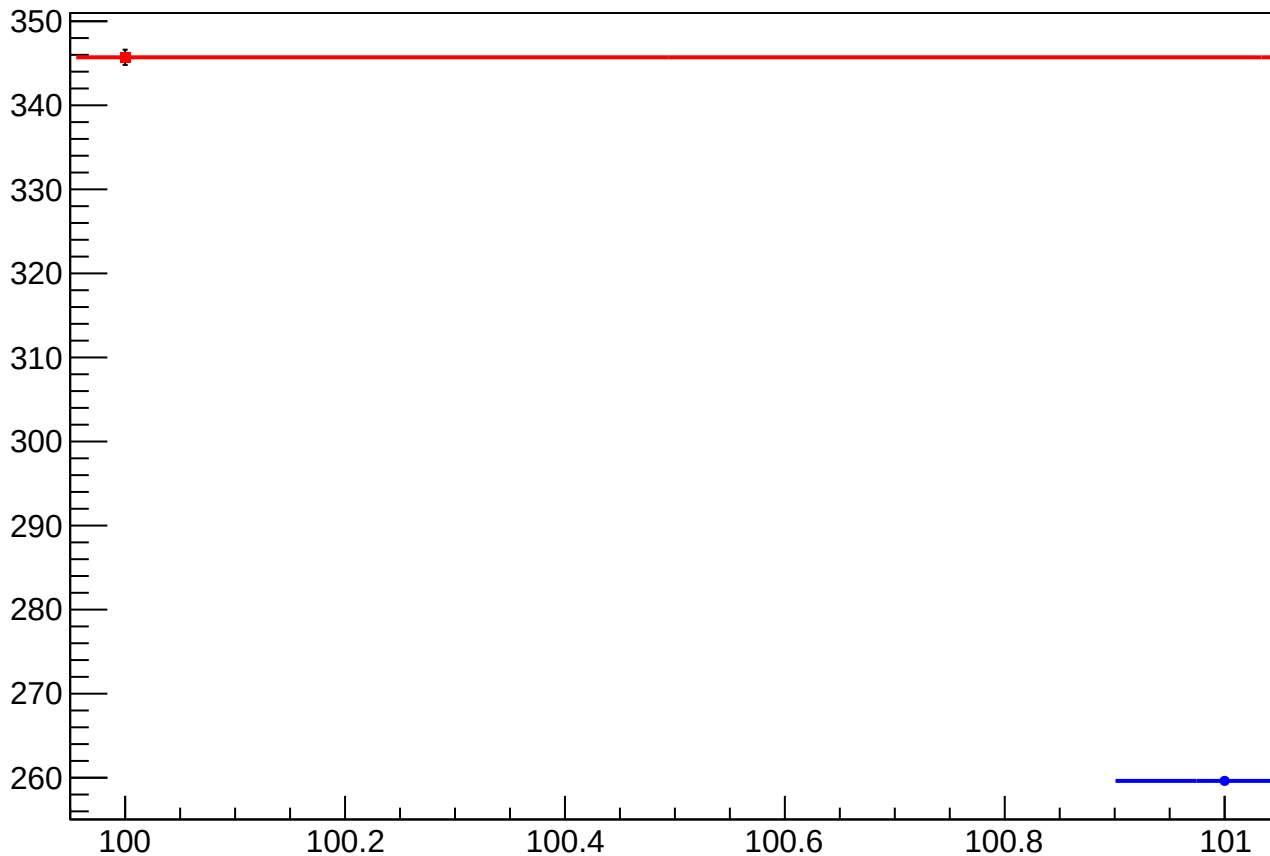
Right: -338.886+/-311.001  $\chi^2$ /NDF: 5.3/1

In: -518.087+/-320.539  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -338.886+/-311.001  $\chi^2$ /NDF: 5.3/1

asym\_sam8\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 259.624 $\pm$ 0.227  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 345.709 $\pm$ 0.908  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

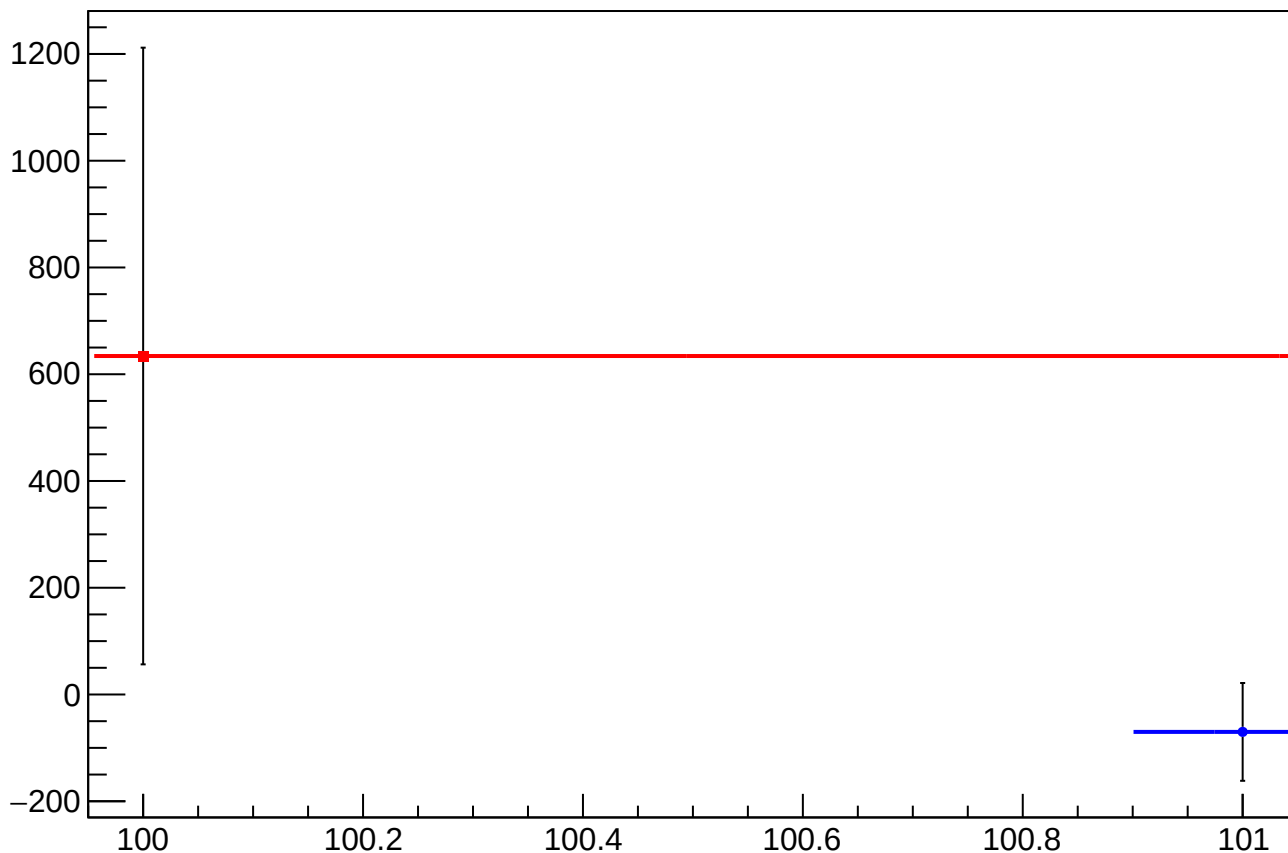
Right: 264.671 $\pm$ 0.220  $\chi^2$ /NDF: 8457.5/1

In: 259.624 $\pm$ 0.227  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 264.671 $\pm$ 0.220  $\chi^2$ /NDF: 8457.5/1

eigen\_dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -70.078+/-91.614  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 634.127+/-577.682  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

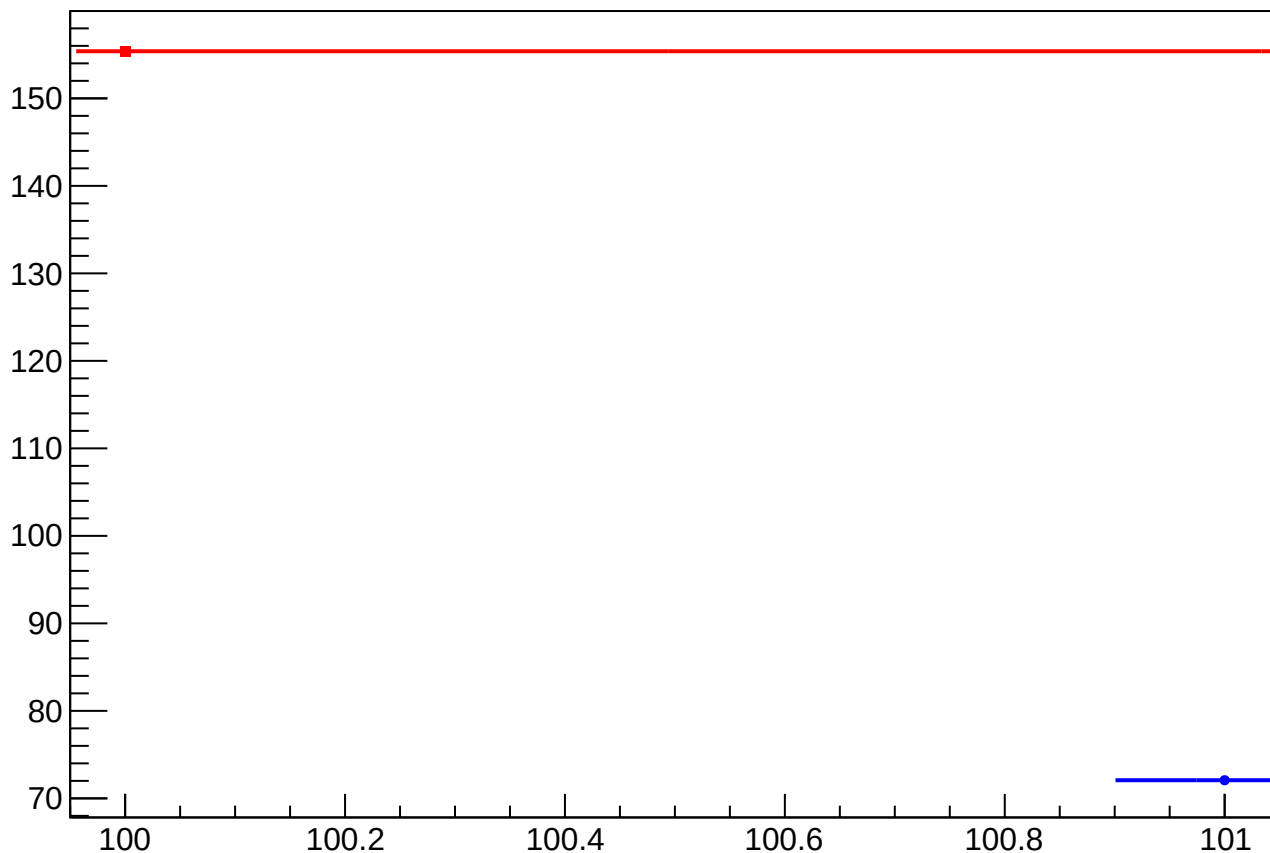
Right: -52.801+/-90.483  $\chi^2/\text{NDF}$ : 1.4/1

In: -70.078+/-91.614  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -52.801+/-90.483  $\chi^2/\text{NDF}$ : 1.4/1

# eigen\_dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 72.073+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 155.385+/-0.408  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

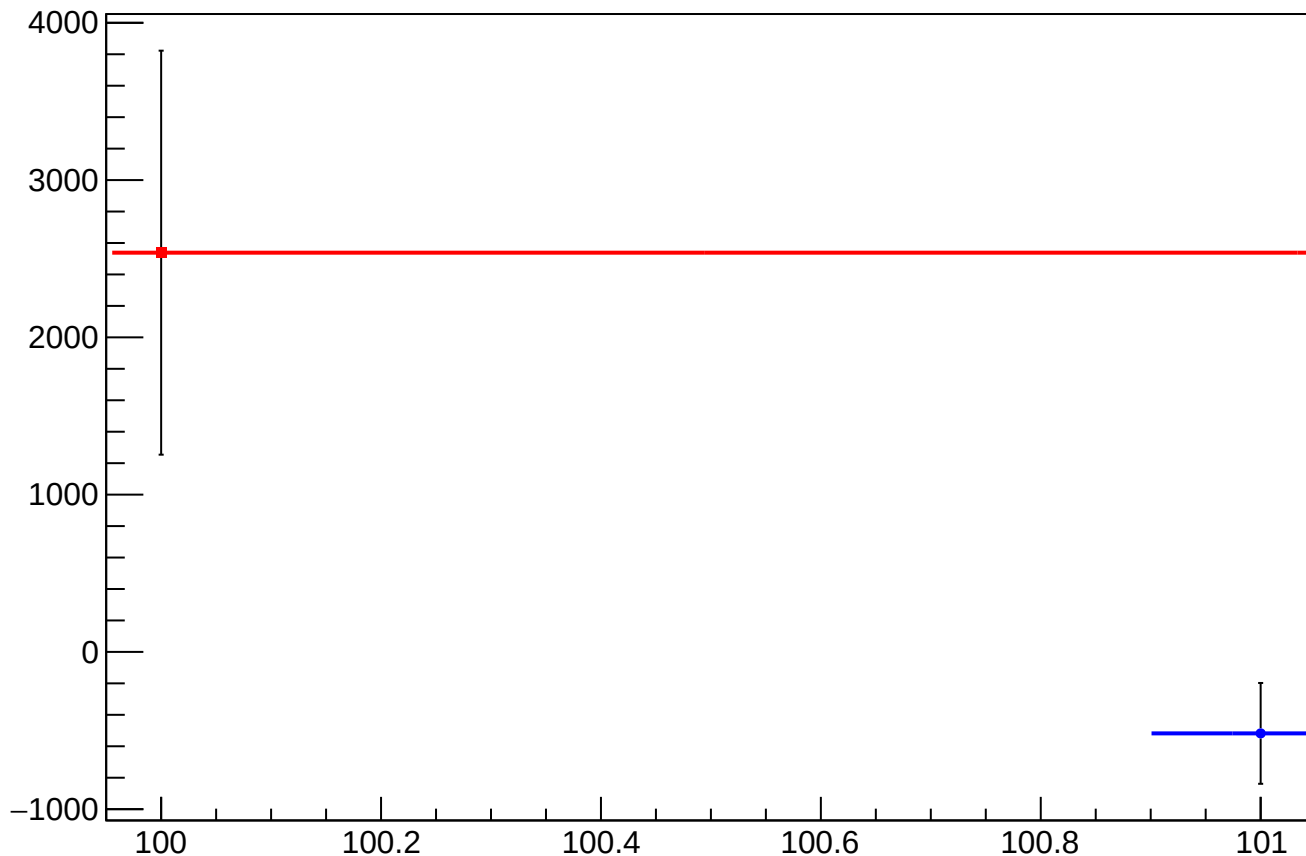
Right: 74.117+/-0.064  $\chi^2/\text{NDF}$ : 40577.1/1

In: 72.073+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.117+/-0.064  $\chi^2/\text{NDF}$ : 40577.1/1

asym\_sam8\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -518.083+/-320.537  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2538.417+/-1284.402  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

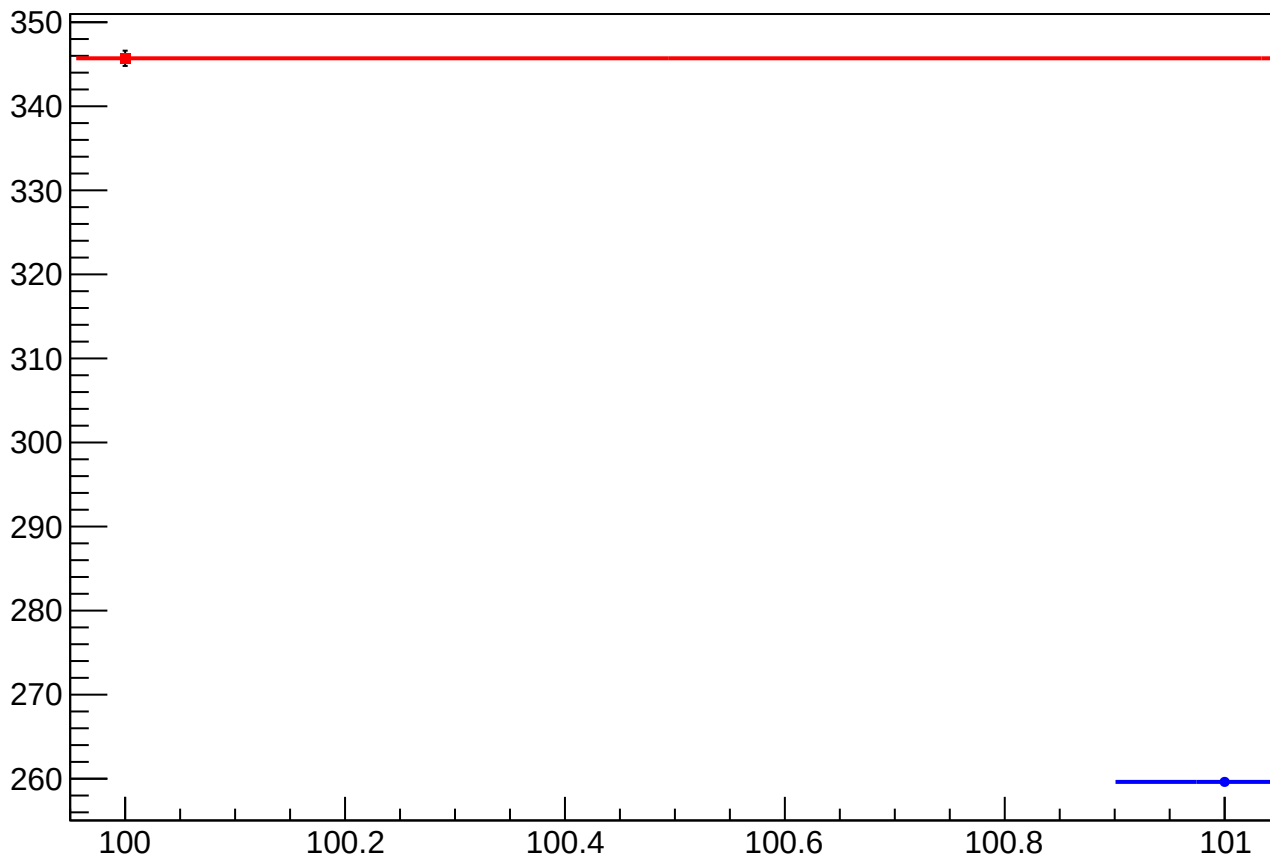
Right: -338.883+/-310.998  $\chi^2$ /NDF: 5.3/1

In: -518.083+/-320.537  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -338.883+/-310.998  $\chi^2$ /NDF: 5.3/1

asym\_sam8\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 259.622 $\pm$ 0.227  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 345.707 $\pm$ 0.908  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

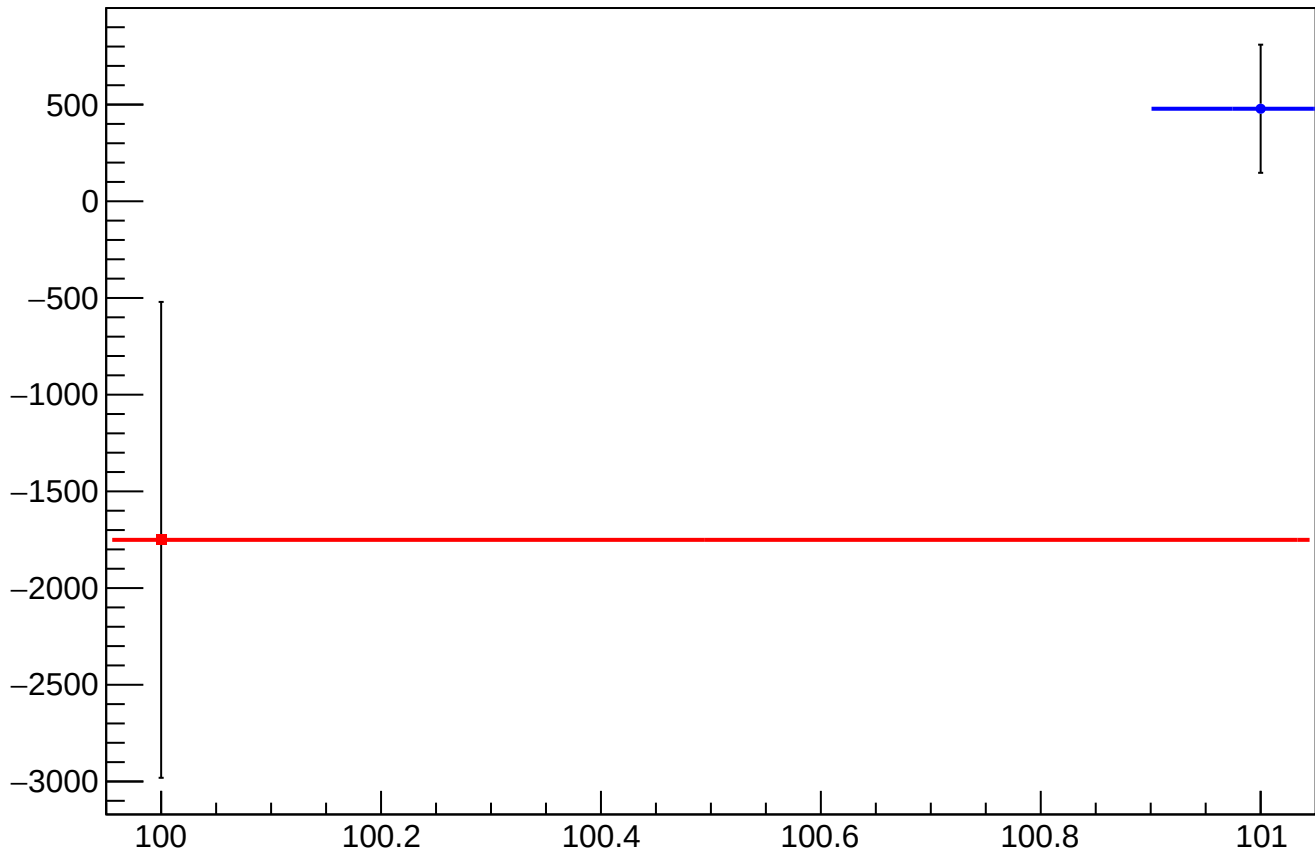
Right: 264.669 $\pm$ 0.220  $\chi^2$ /NDF: 8457.5/1

In: 259.622 $\pm$ 0.227  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 264.669 $\pm$ 0.220  $\chi^2$ /NDF: 8457.5/1

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In: 478.447+/-331.292  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1750.672+/-1230.315  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

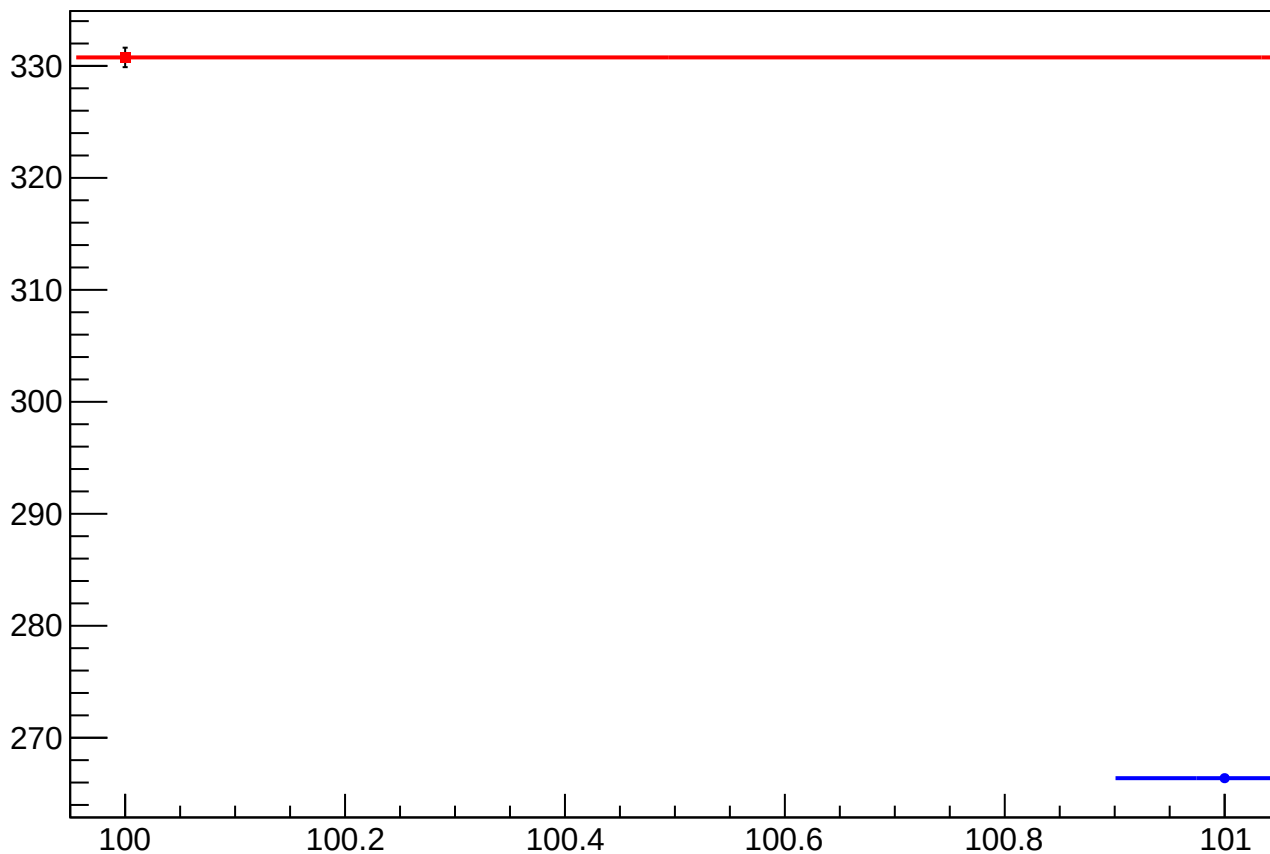
Right: 327.744+/-319.898  $\chi^2$ /NDF: 3.1/1

In: 478.447+/-331.292  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 327.744+/-319.898  $\chi^2$ /NDF: 3.1/1

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 266.390 $\pm$ 0.234  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 330.759 $\pm$ 0.870  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 270.742 $\pm$ 0.226  $\chi^2$ /NDF: 5104.4/1

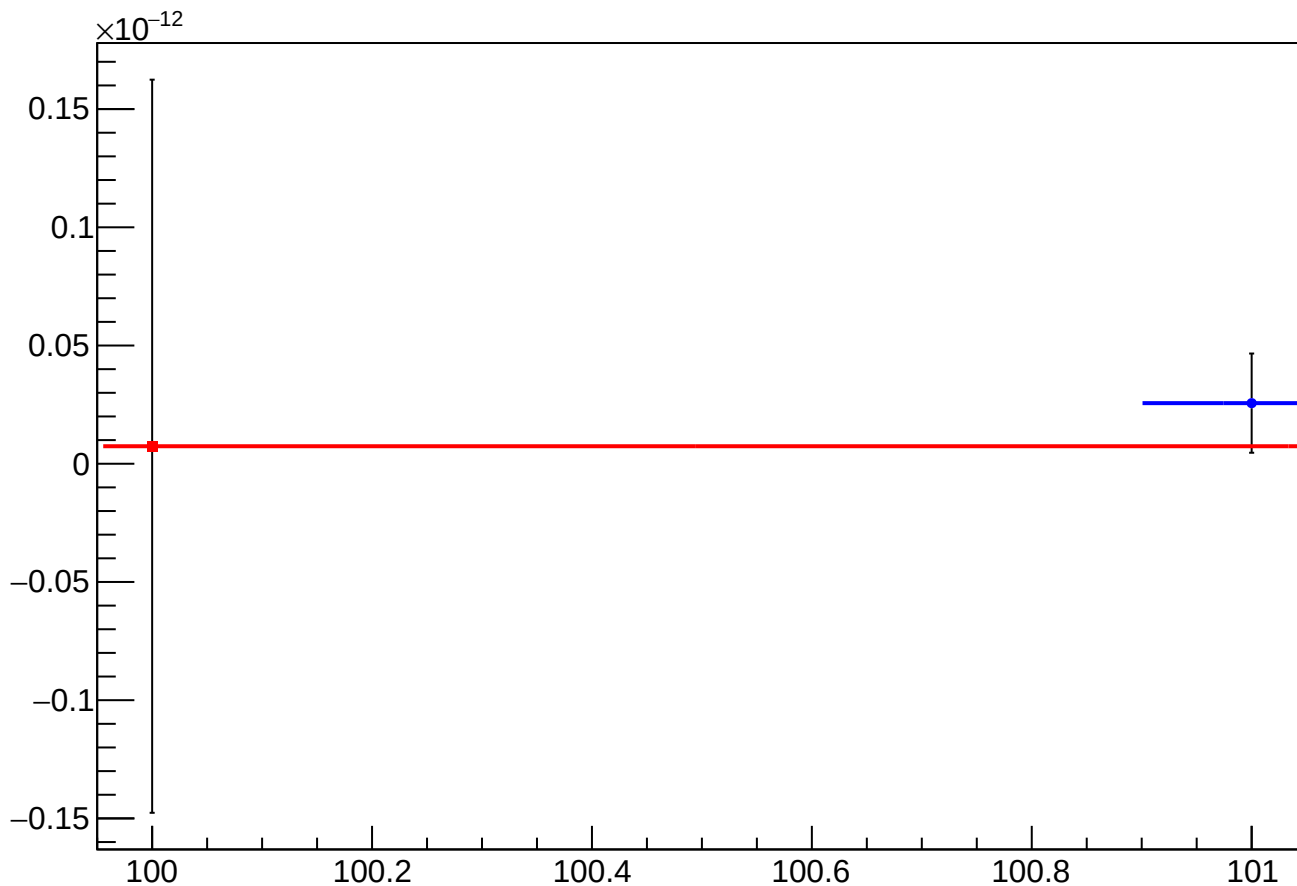
In: 266.390 $\pm$ 0.234  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 270.742 $\pm$ 0.226  $\chi^2$ /NDF: 5104.4/1



asym\_sam8\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

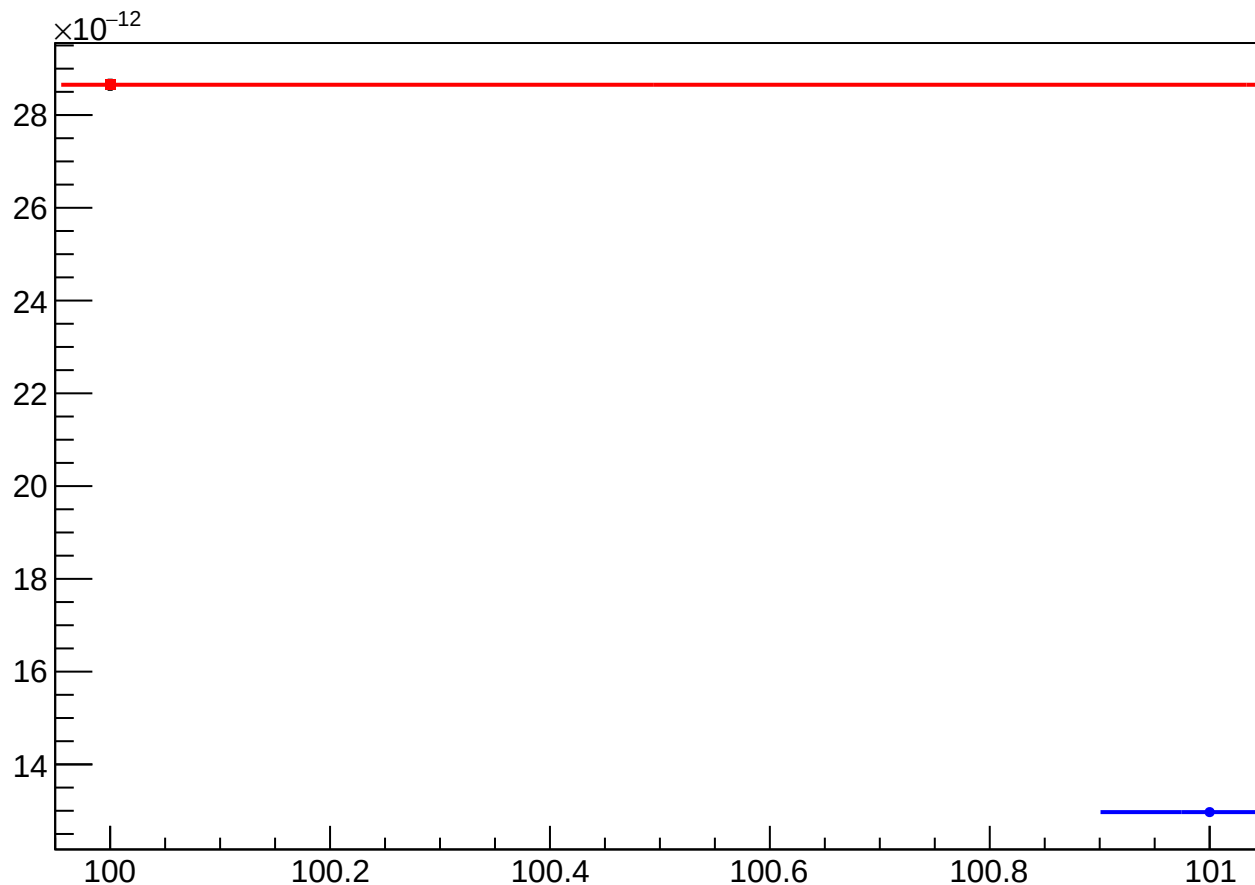
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam8\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

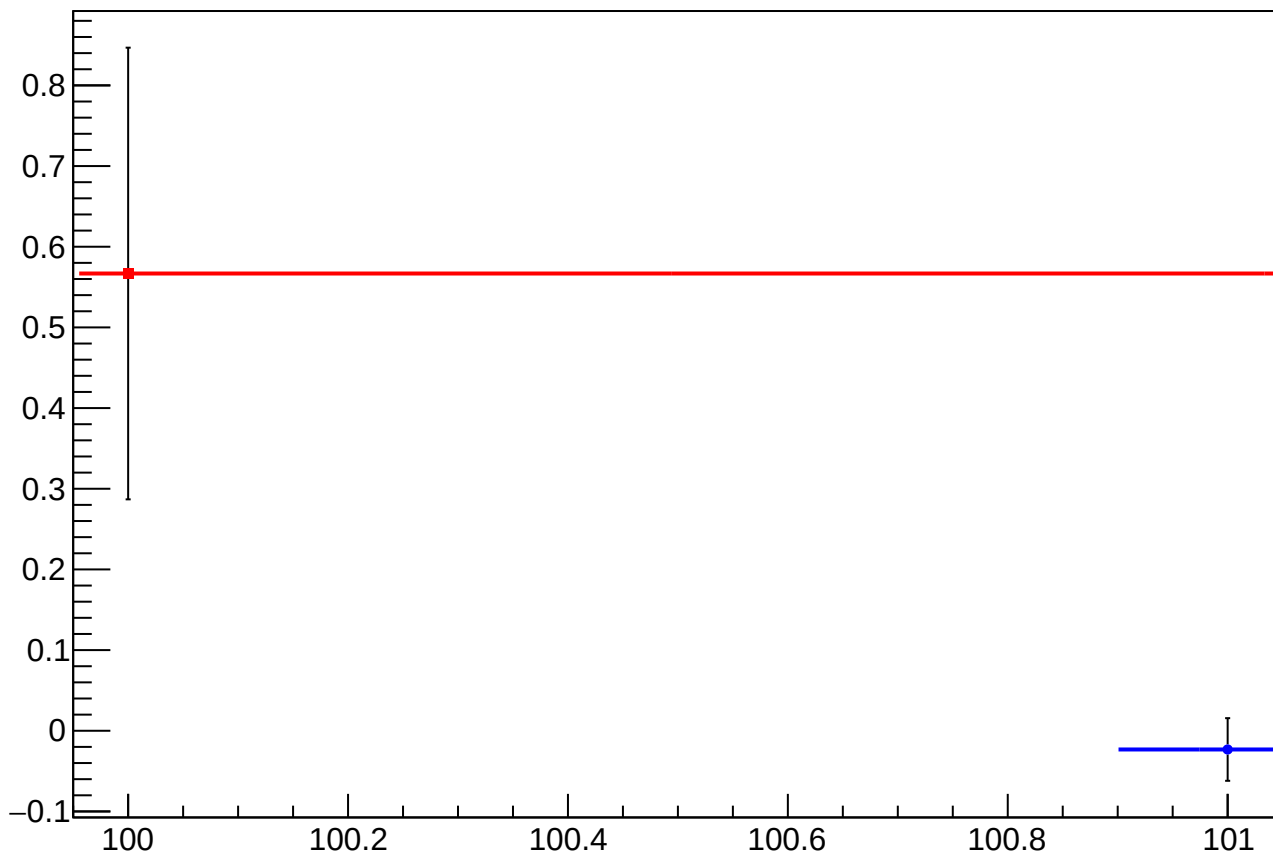
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20093.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 20093.9/1

asym\_sam8\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.023+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.567+/-0.280  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

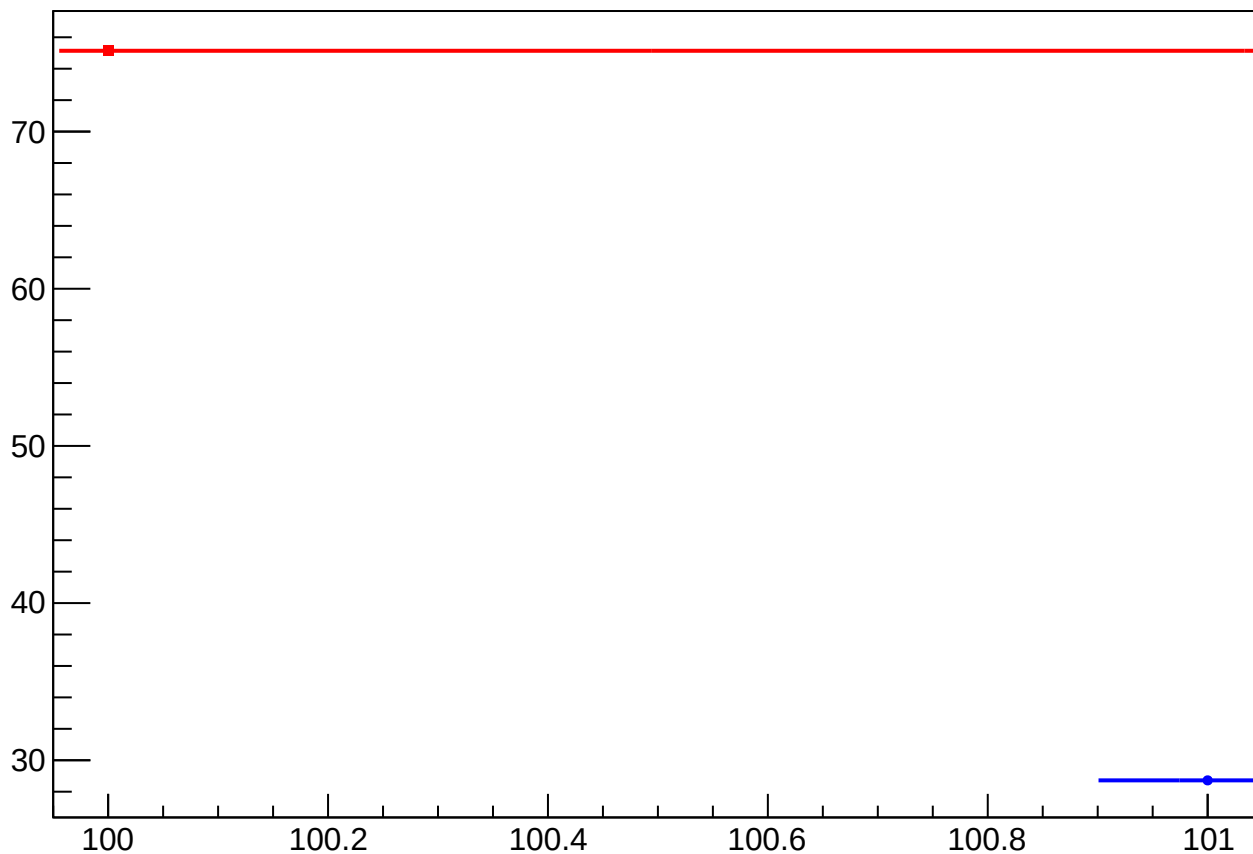
Right: -0.012+/-0.038  $\chi^2/\text{NDF}$ : 4.4/1

In: -0.023+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.012+/-0.038  $\chi^2/\text{NDF}$ : 4.4/1

asym\_sam8\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.720 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 75.140 $\pm$ 0.198  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

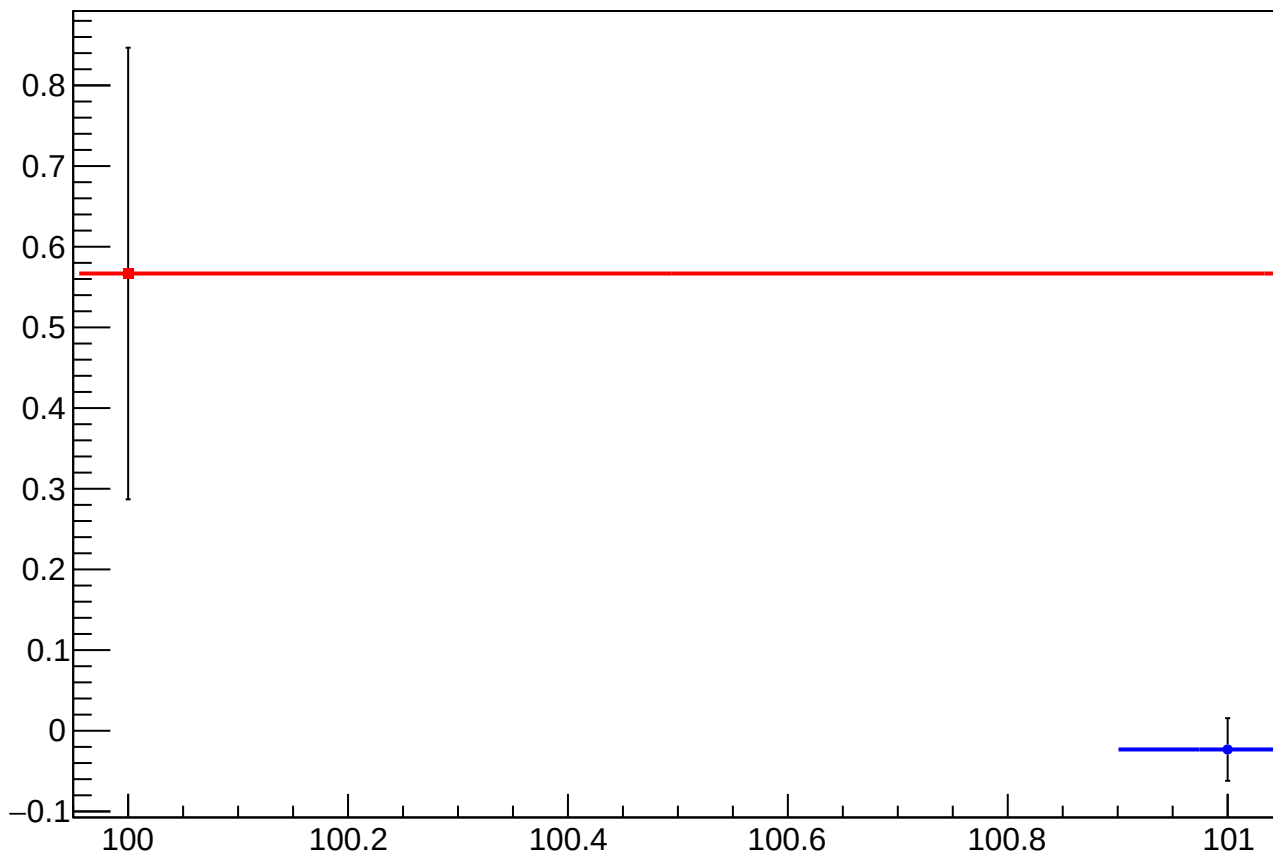
Right: 29.596 $\pm$ 0.027  $\chi^2$ /NDF: 53953.0/1

In: 28.720 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.596 $\pm$ 0.027  $\chi^2$ /NDF: 53953.0/1

asym\_sam8\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.023+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.567+/-0.280  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

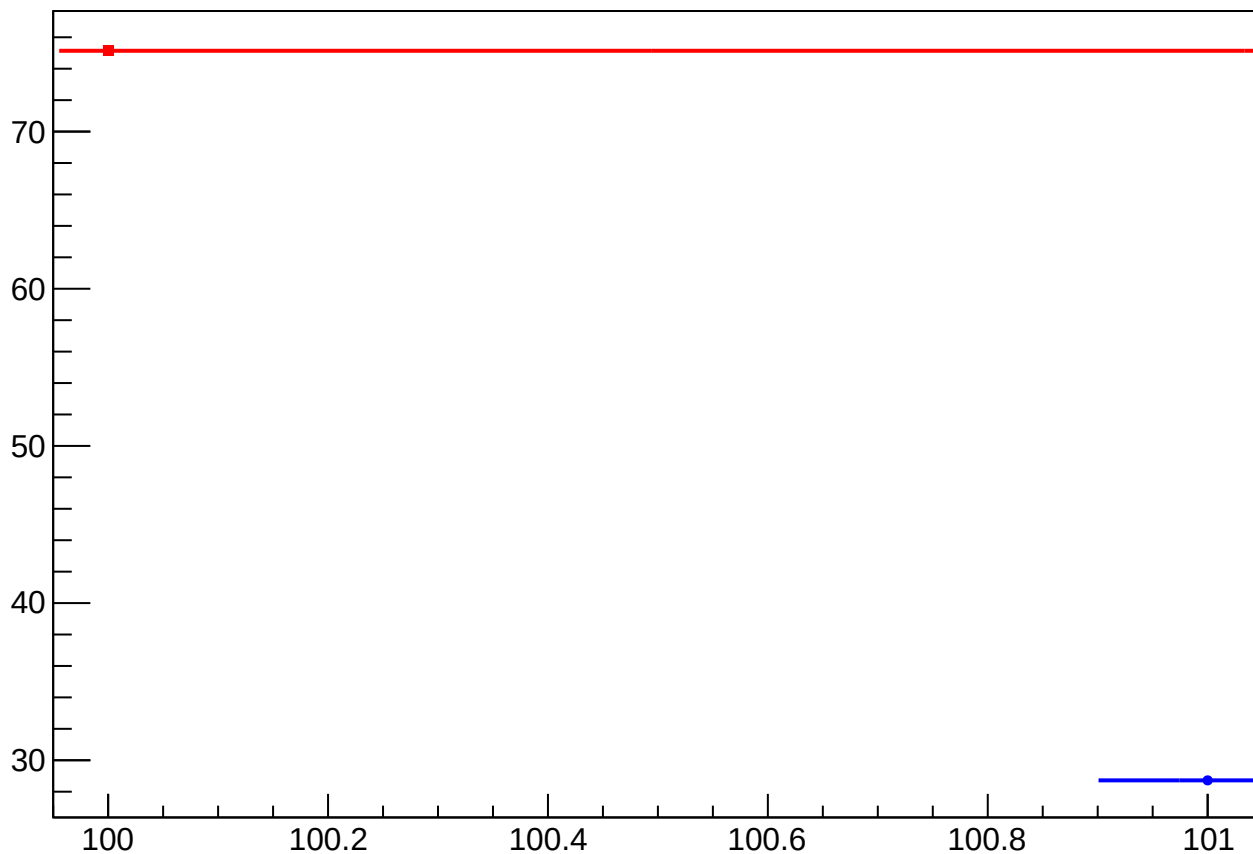
Right: -0.012+/-0.038  $\chi^2/\text{NDF}$ : 4.4/1

In: -0.023+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.012+/-0.038  $\chi^2/\text{NDF}$ : 4.4/1

asym\_sam8\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.720 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 75.140 $\pm$ 0.198  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

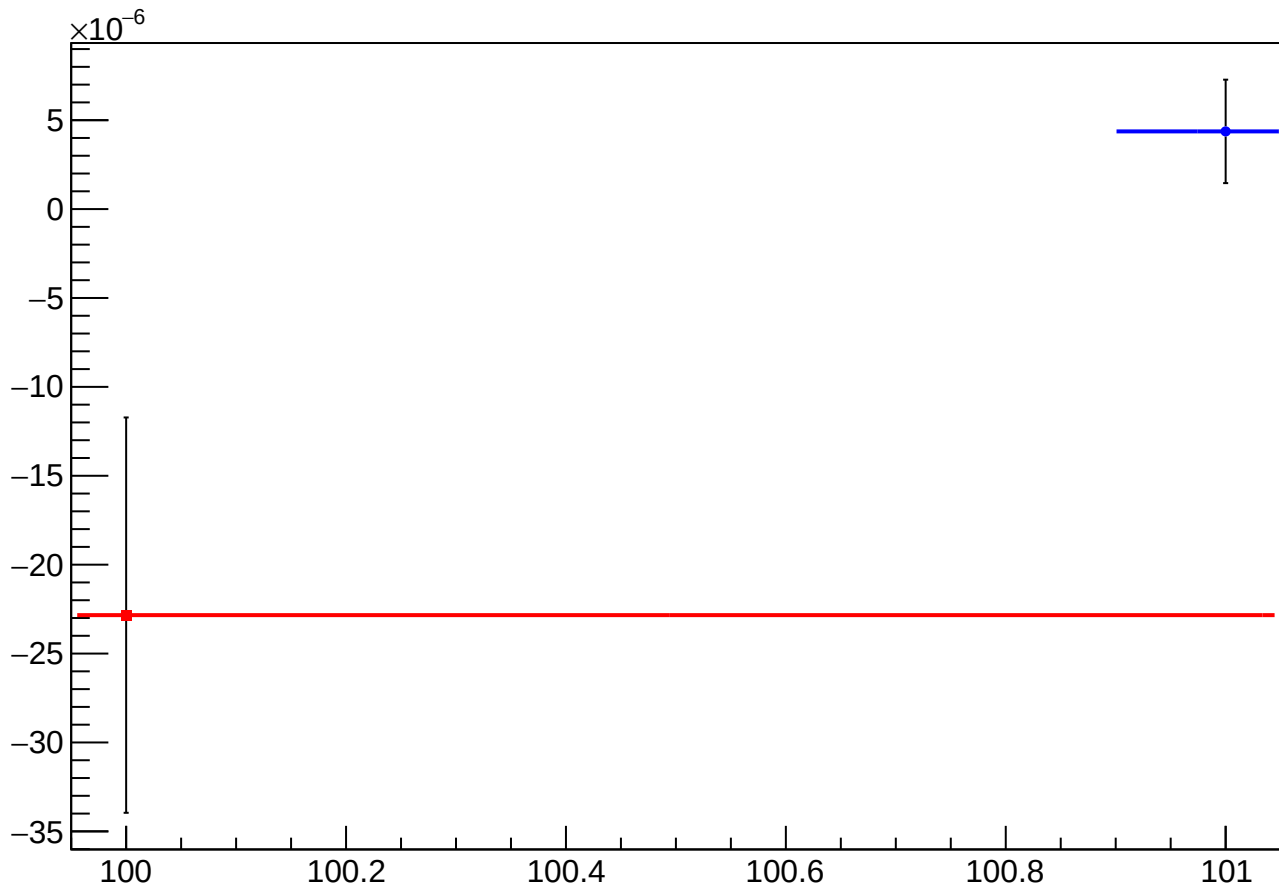
Right: 29.596 $\pm$ 0.027  $\chi^2$ /NDF: 53953.0/1

In: 28.720 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.596 $\pm$ 0.027  $\chi^2$ /NDF: 53953.0/1

asym\_sam8\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

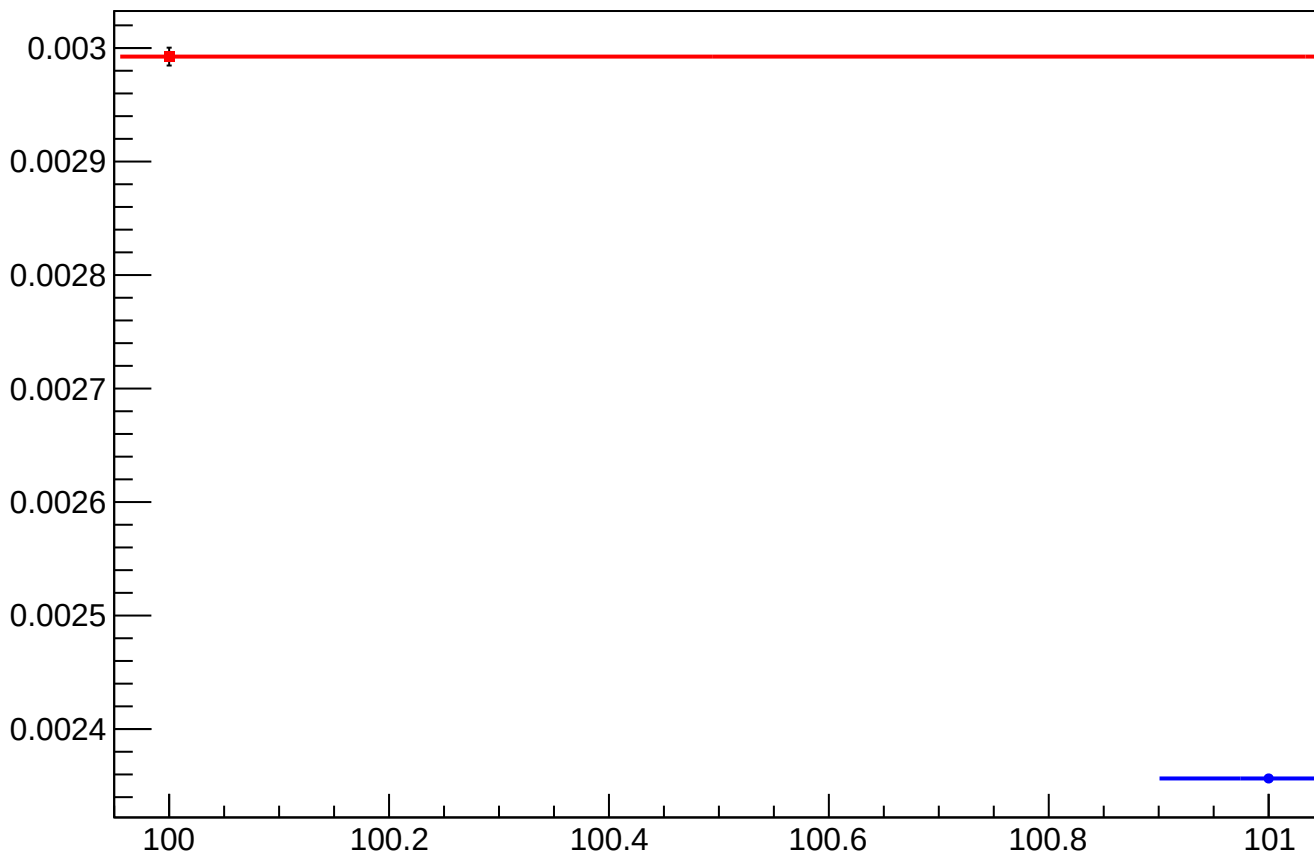
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.6/1

asym\_sam8\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 6125.6/1

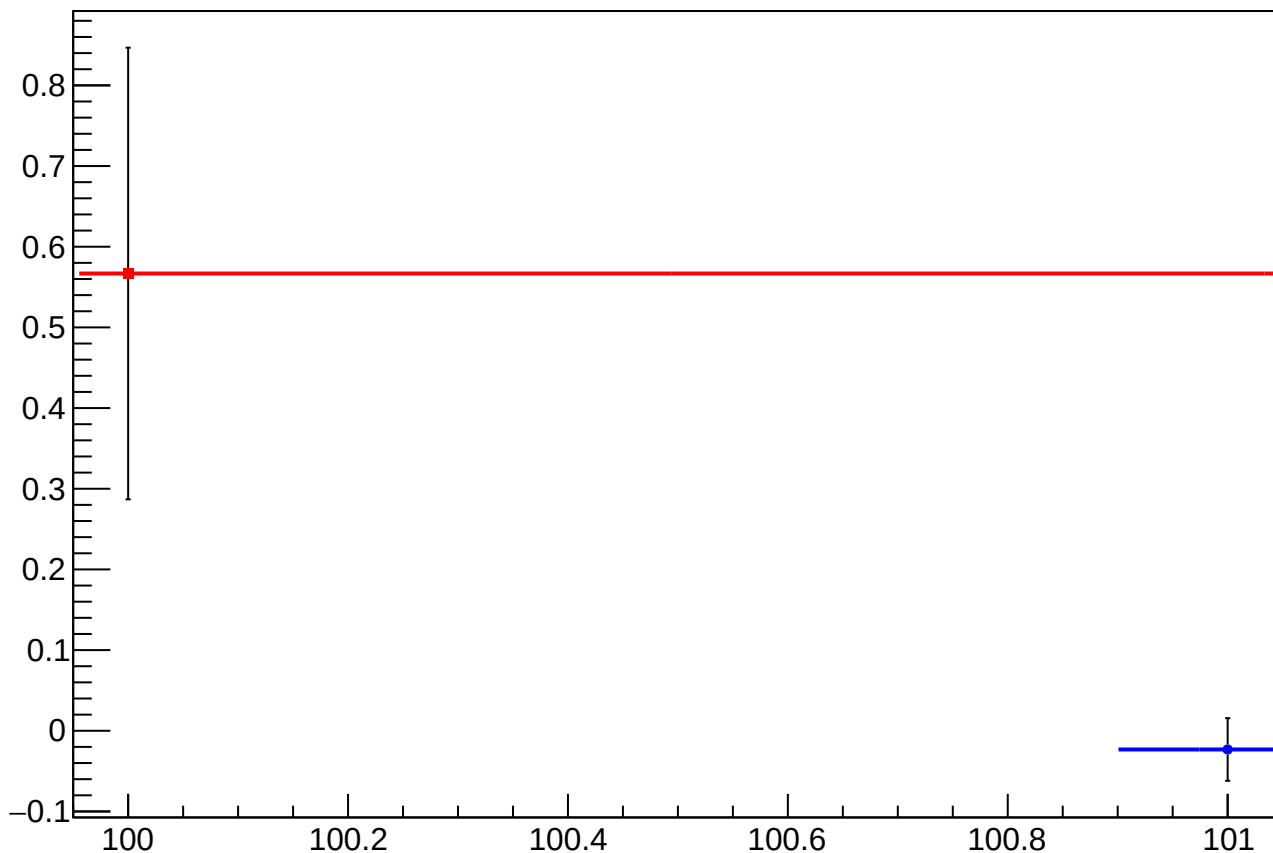
In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 6125.6/1



asym\_sam8\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.023+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.567+/-0.280  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

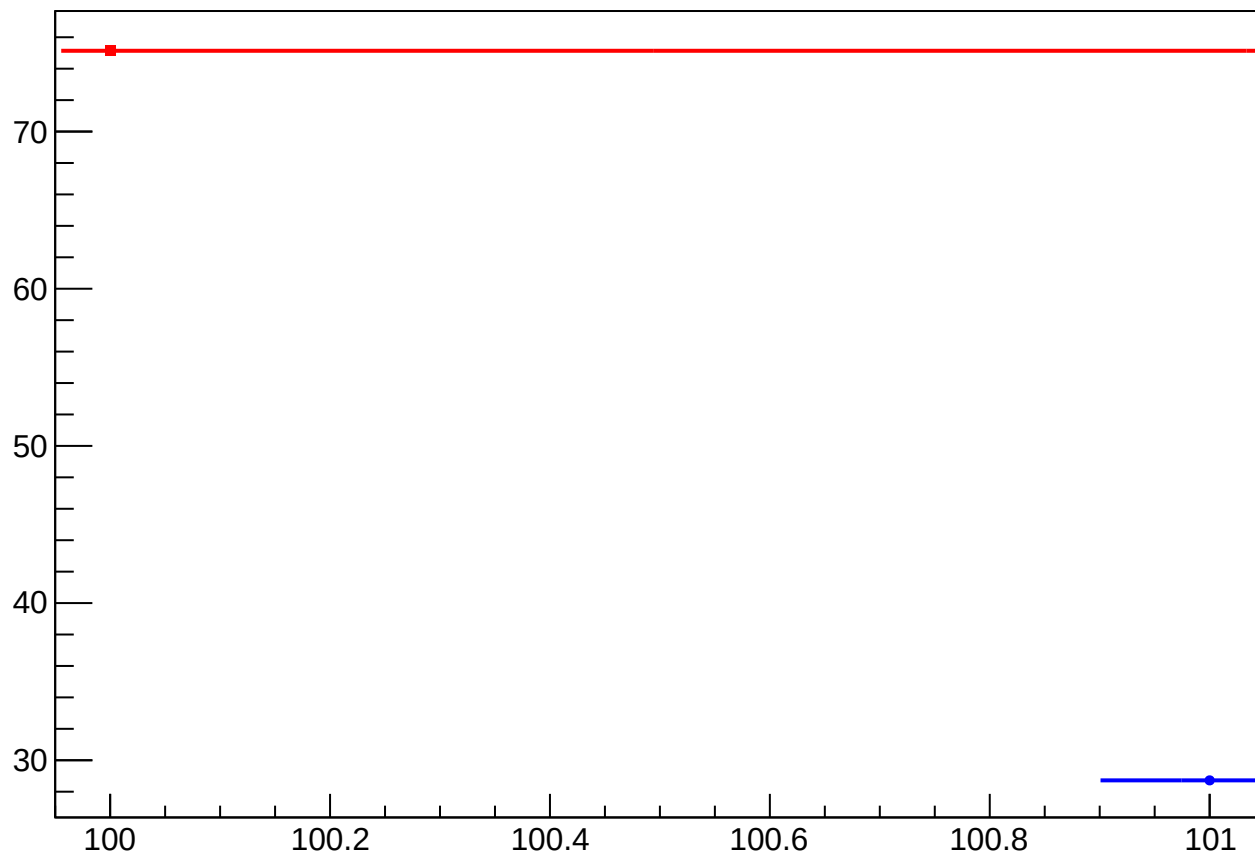
Right: -0.012+/-0.038  $\chi^2/\text{NDF}$ : 4.4/1

In: -0.023+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.012+/-0.038  $\chi^2/\text{NDF}$ : 4.4/1

asym\_sam8\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.720+/-0.027  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.139+/-0.198  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

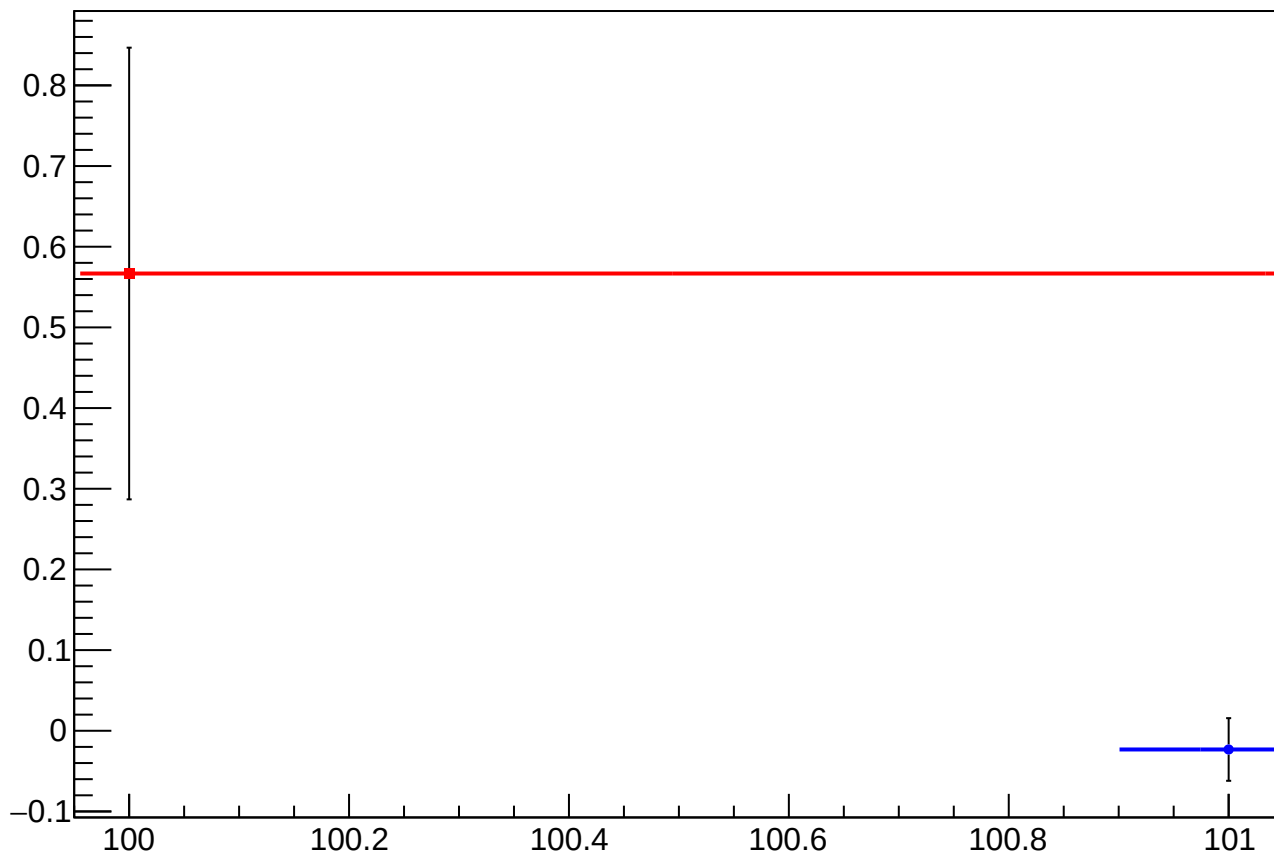
Right: 29.596+/-0.027  $\chi^2/\text{NDF}$ : 53951.7/1

In: 28.720+/-0.027  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.596+/-0.027  $\chi^2/\text{NDF}$ : 53951.7/1

asym\_sam8\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.023+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.567+/-0.280  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

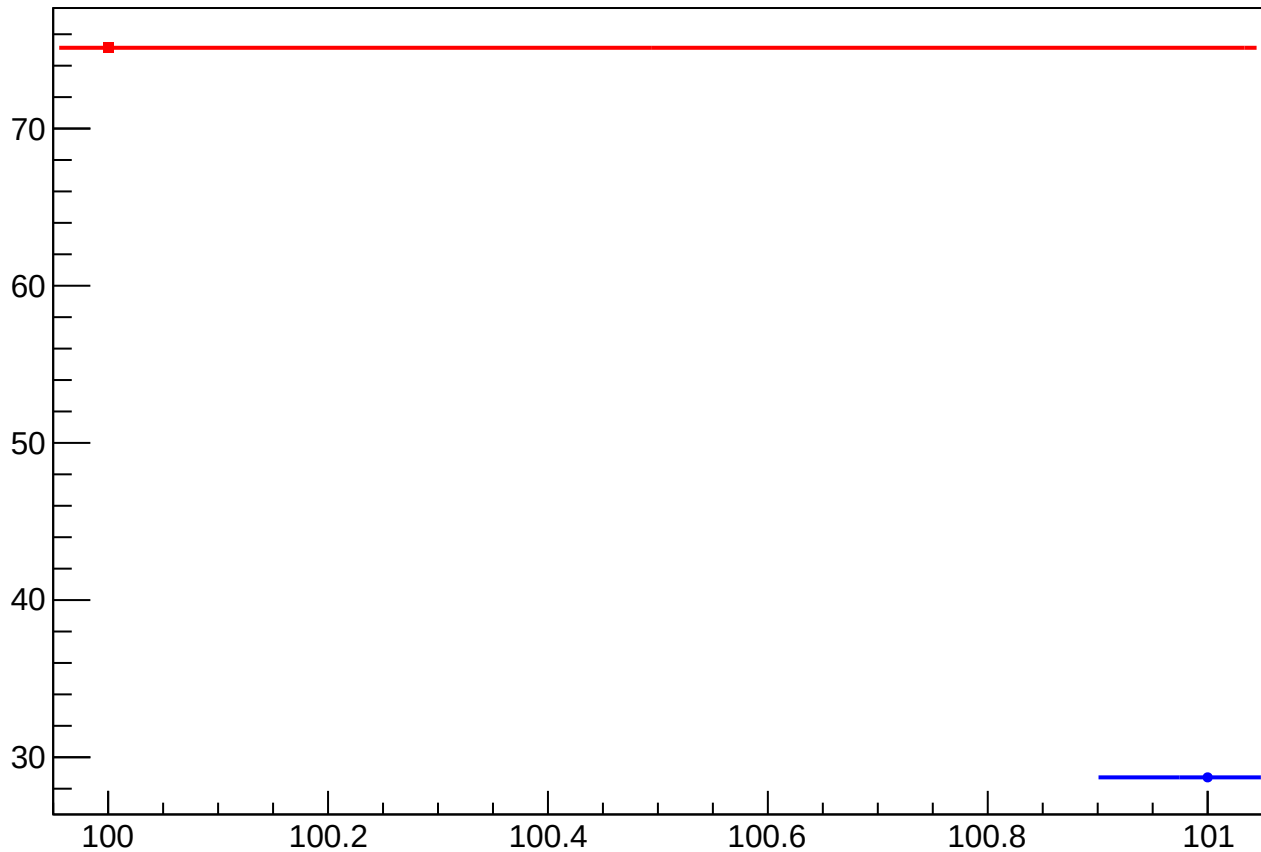
Right: -0.012+/-0.038  $\chi^2/\text{NDF}$ : 4.4/1

In: -0.023+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.012+/-0.038  $\chi^2/\text{NDF}$ : 4.4/1

asym\_sam8\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.720+/-0.027  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 75.139+/-0.198  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

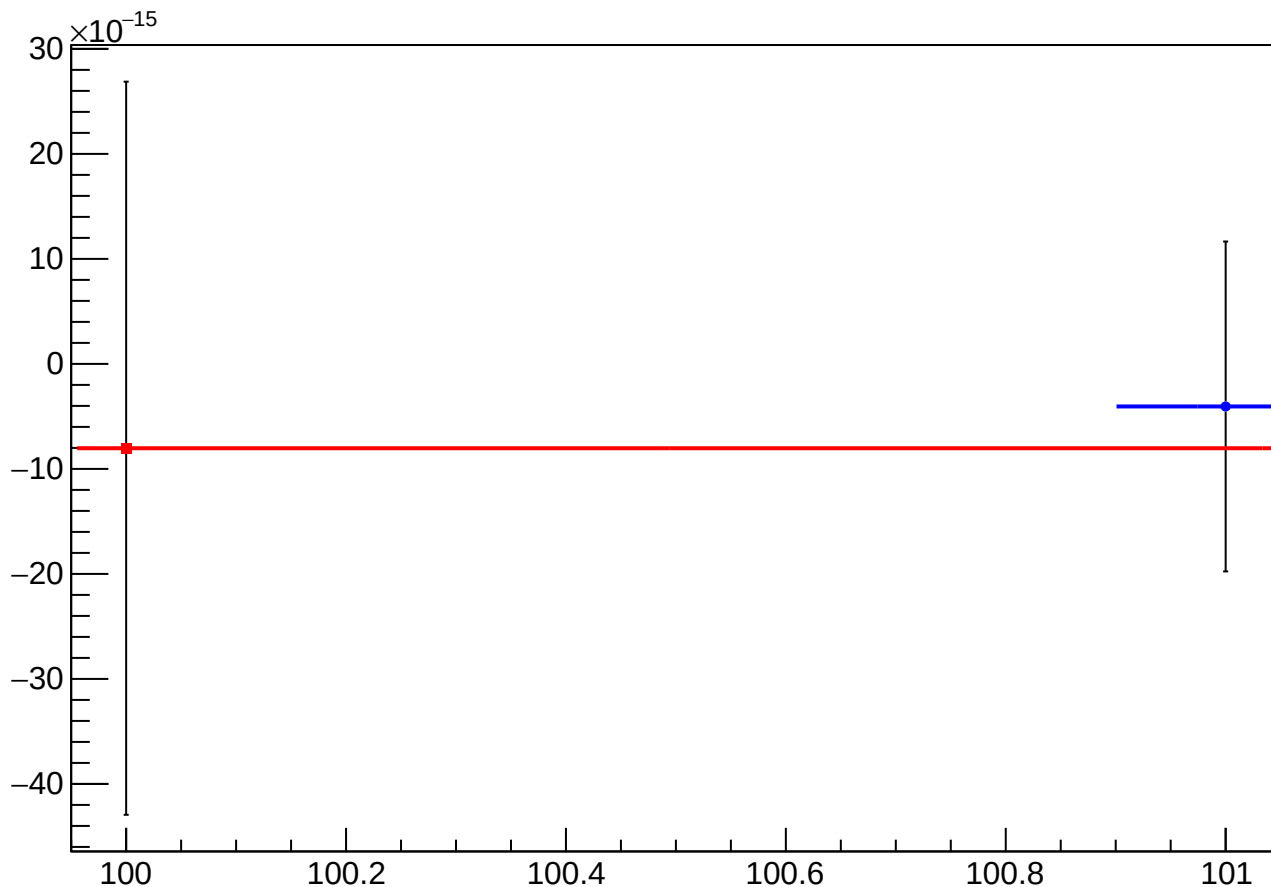
Right: 29.596+/-0.027  $\chi^2/\text{NDF}$ : 53951.7/1

In: 28.720+/-0.027  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 29.596+/-0.027  $\chi^2/\text{NDF}$ : 53951.7/1

asym\_sam8\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

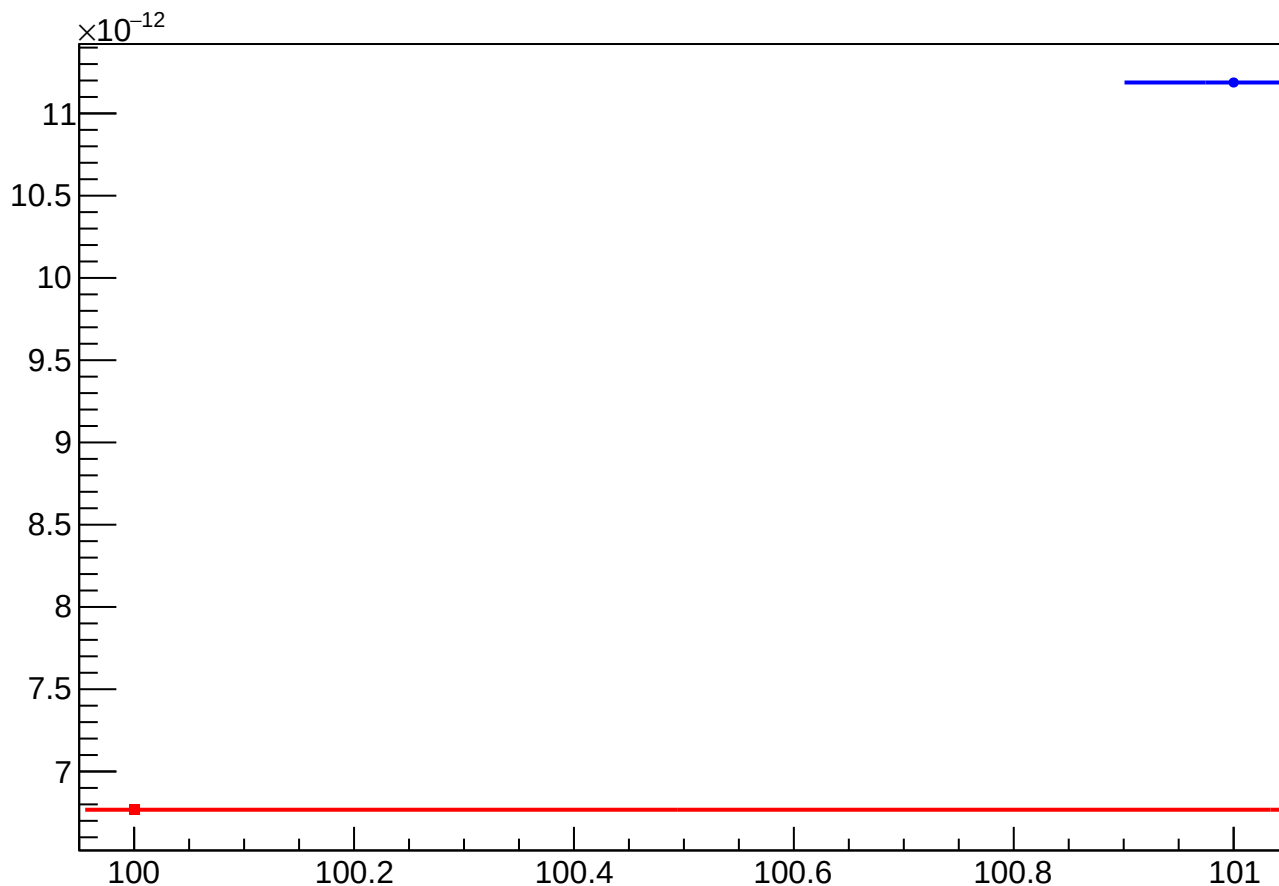
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

asym\_sam8\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

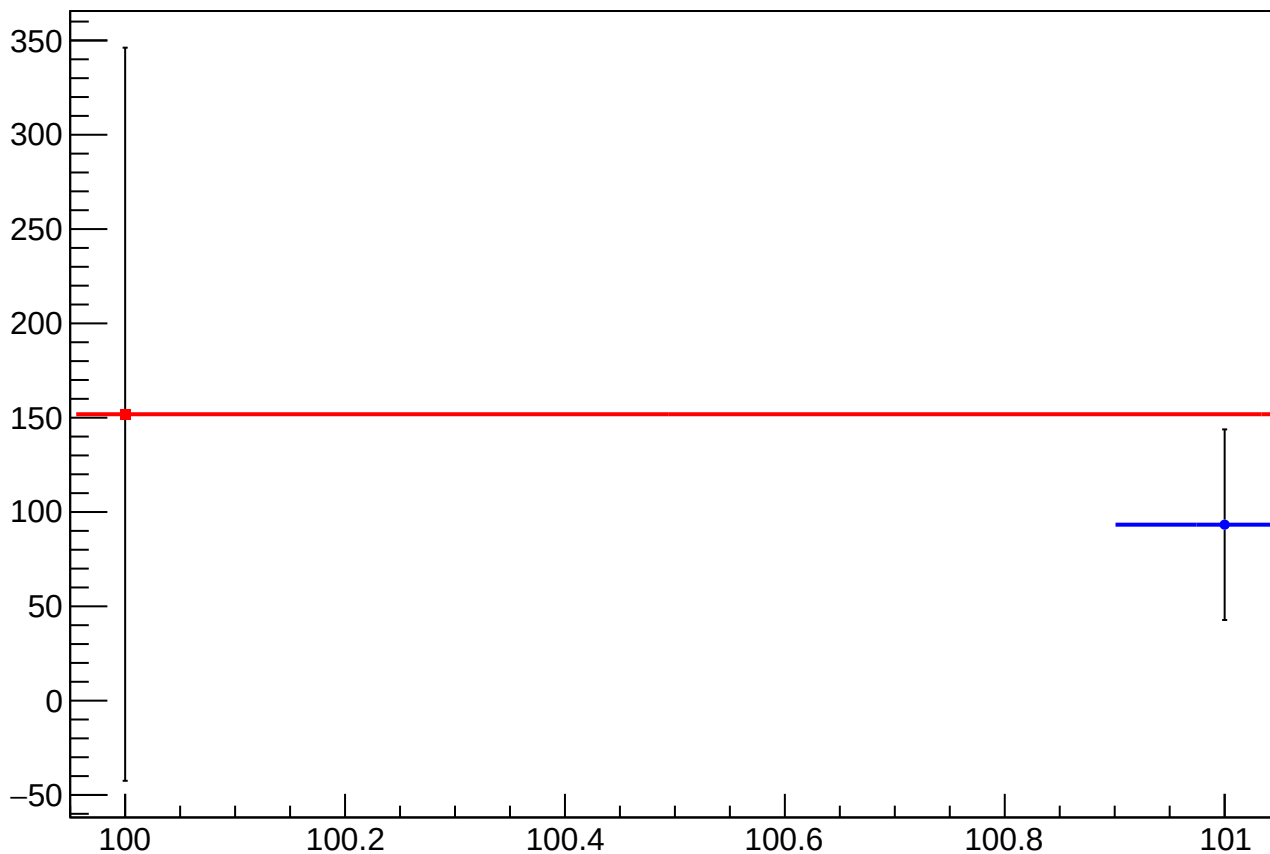
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26670.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 26670.4/1

reg\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 93.287+/-50.519  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 151.838+/-194.330  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

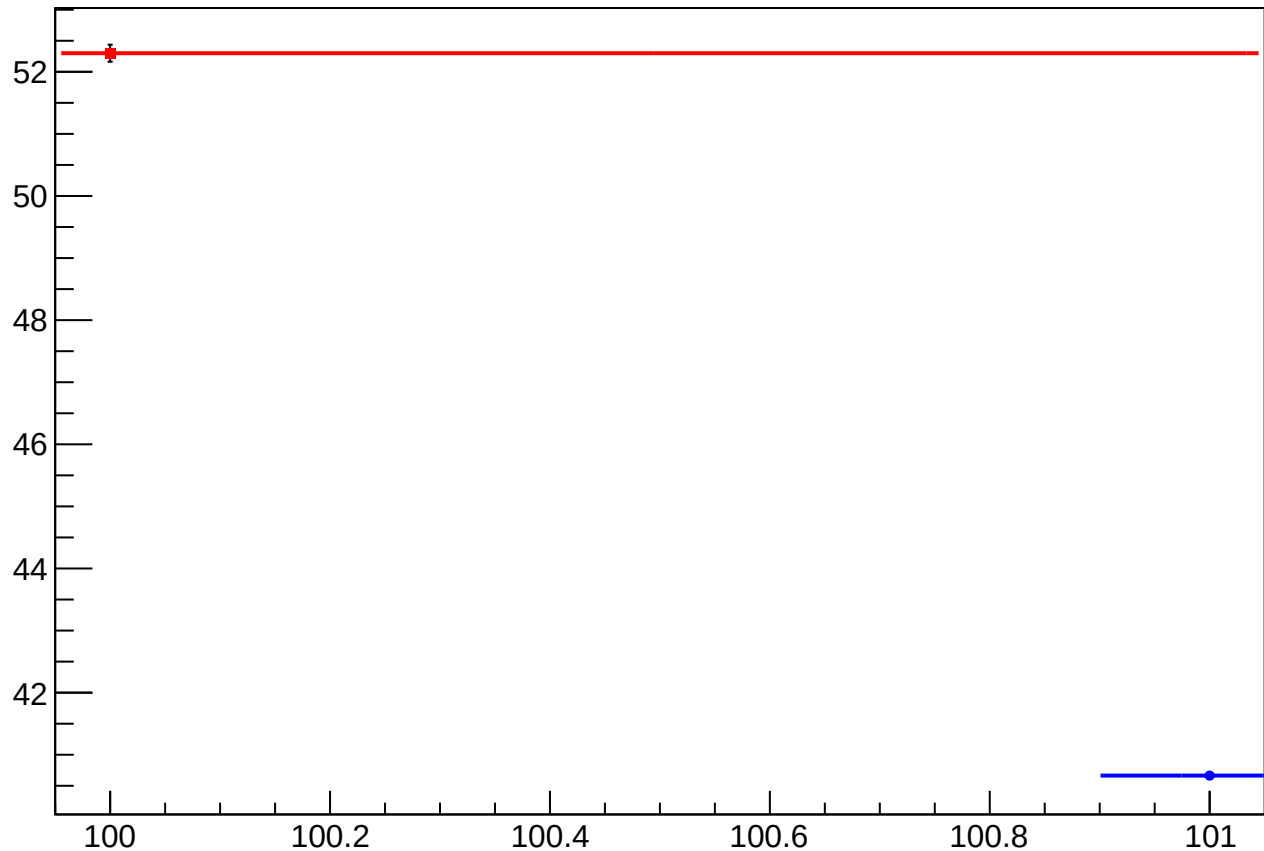
Right: 96.993+/-48.894  $\chi^2/\text{NDF}$ : 0.1/1

In: 93.287+/-50.519  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.993+/-48.894  $\chi^2/\text{NDF}$ : 0.1/1

# reg\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 40.664+/-0.036  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 52.300+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 41.401+/-0.035  $\chi^2/\text{NDF}$ : 6716.0/1

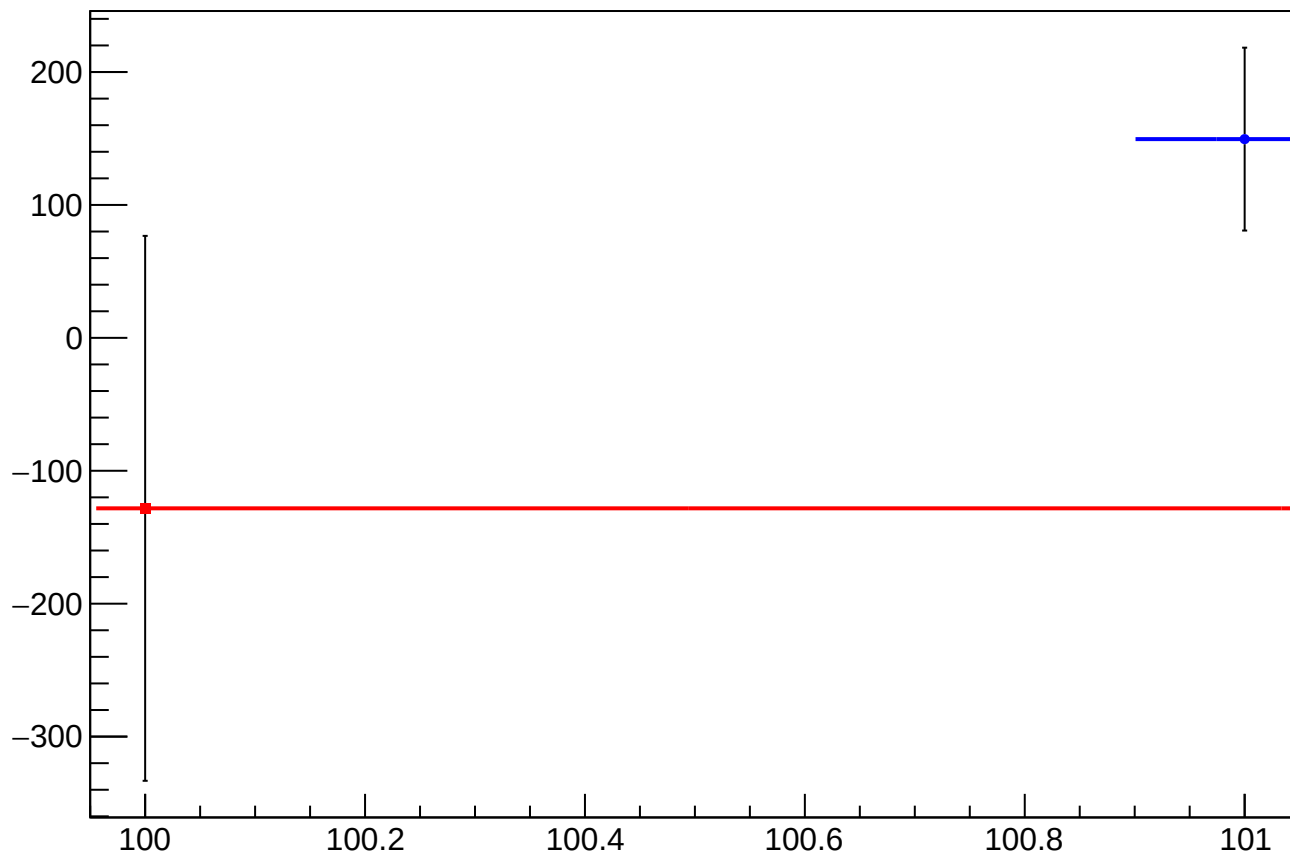
In: 40.664+/-0.036  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.401+/-0.035  $\chi^2/\text{NDF}$ : 6716.0/1



asym\_sam\_15\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 149.527+/-68.798  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -128.264+/-204.992  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

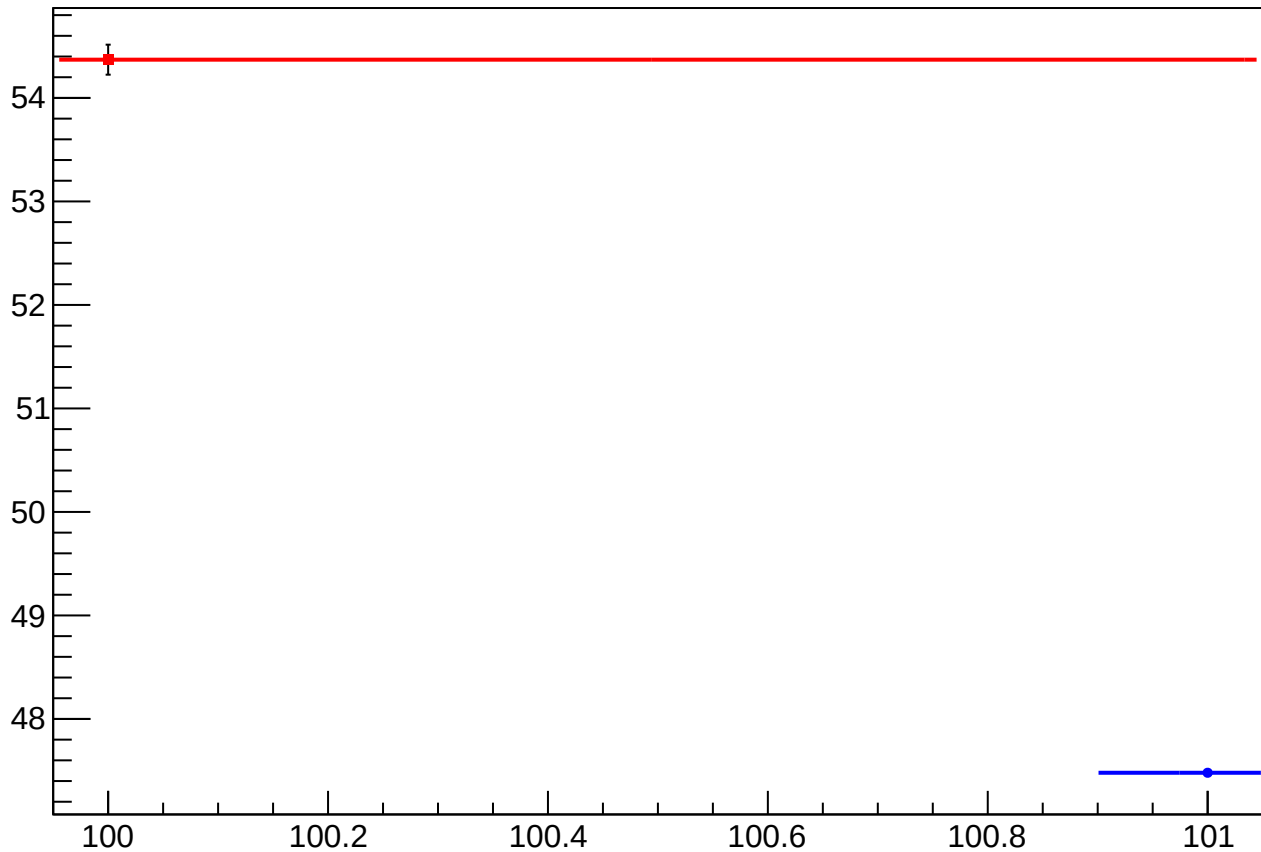
Right: 121.406+/-65.222  $\chi^2/\text{NDF}$ : 1.7/1

In: 149.527+/-68.798  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 121.406+/-65.222  $\chi^2/\text{NDF}$ : 1.7/1

asym\_sam\_15\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 47.480 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.370 $\pm$ 0.145  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

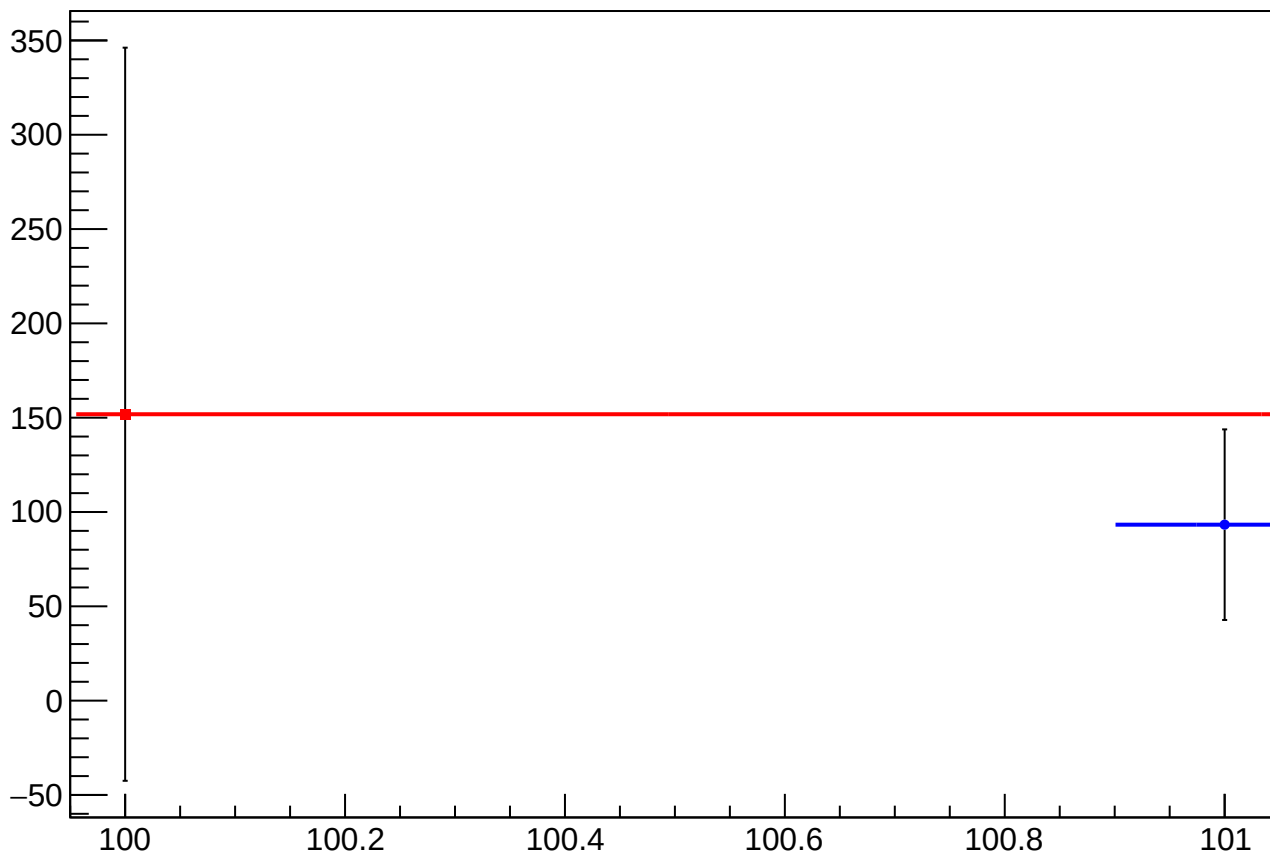
Right: 48.177 $\pm$ 0.046  $\chi^2$ /NDF: 2030.4/1

In: 47.480 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 48.177 $\pm$ 0.046  $\chi^2$ /NDF: 2030.4/1

cor\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 93.283+/-50.519  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 151.834+/-194.330  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

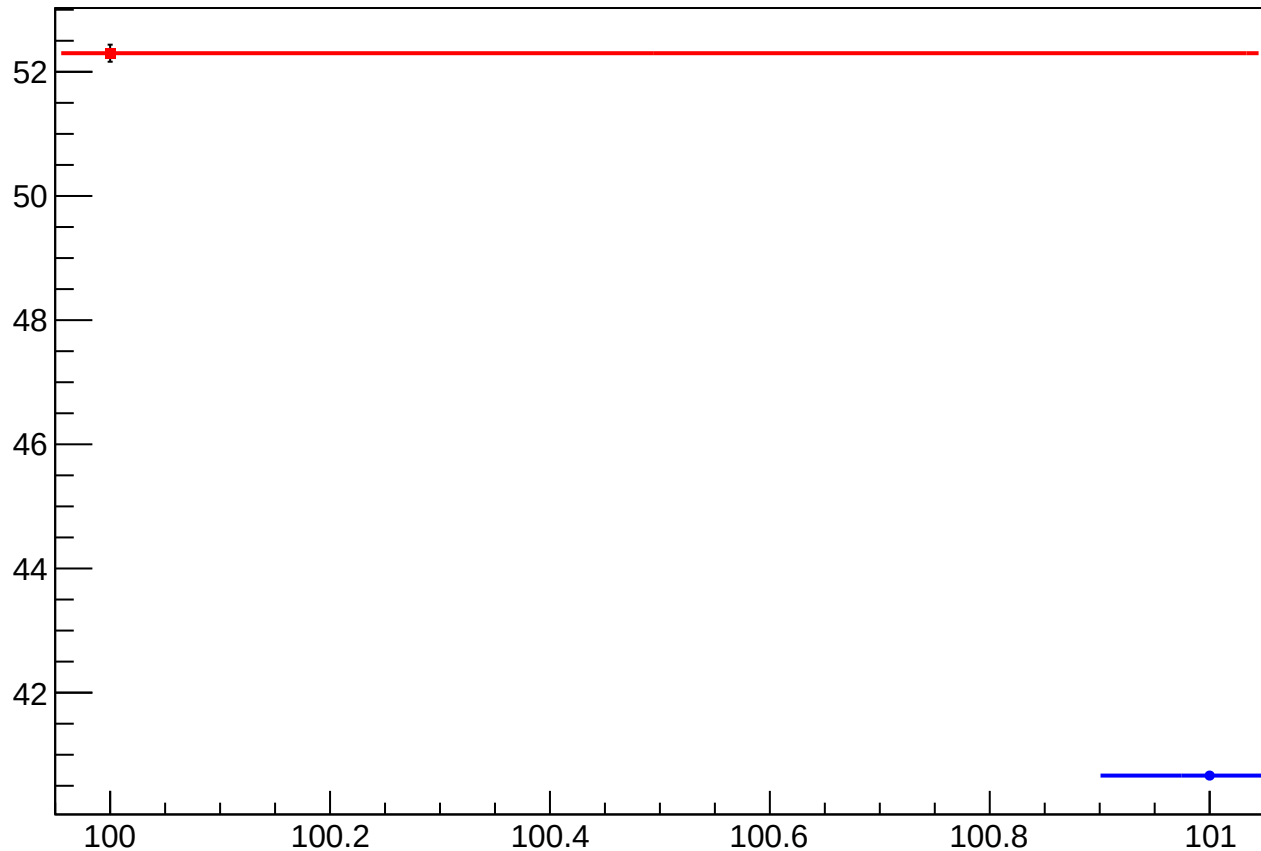
Right: 96.989+/-48.894  $\chi^2/\text{NDF}$ : 0.1/1

In: 93.283+/-50.519  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.989+/-48.894  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 40.664 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 52.300 $\pm$ 0.137  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

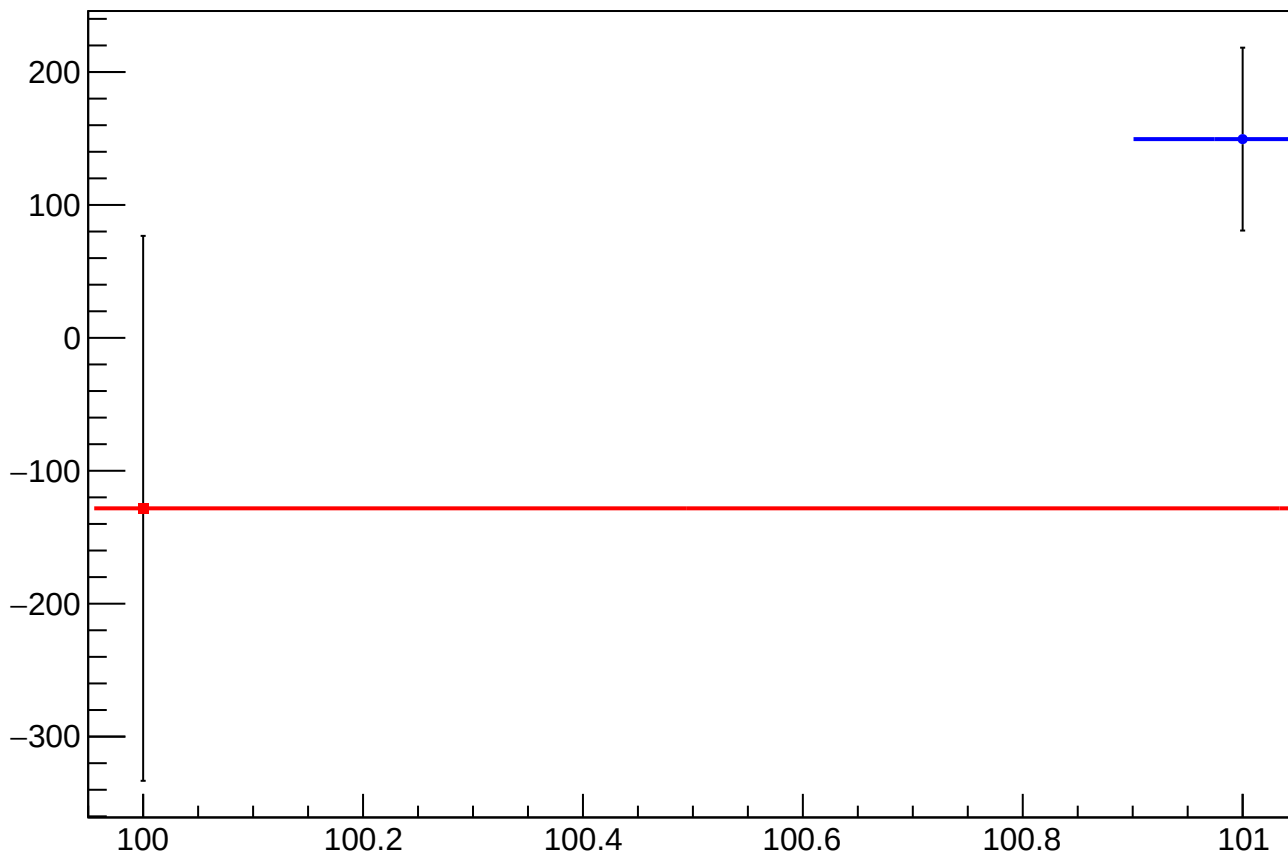
Right: 41.401 $\pm$ 0.035  $\chi^2$ /NDF: 6716.0/1

In: 40.664 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 41.401 $\pm$ 0.035  $\chi^2$ /NDF: 6716.0/1

asym\_sam\_15\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 149.532 $\pm$ 68.798  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -128.260 $\pm$ 204.991  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 121.410 $\pm$ 65.223  $\chi^2$ /NDF: 1.7/1

In: 149.532 $\pm$ 68.798  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 121.410 $\pm$ 65.223  $\chi^2$ /NDF: 1.7/1

asym\_sam\_15\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 47.480 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.369 $\pm$ 0.145  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

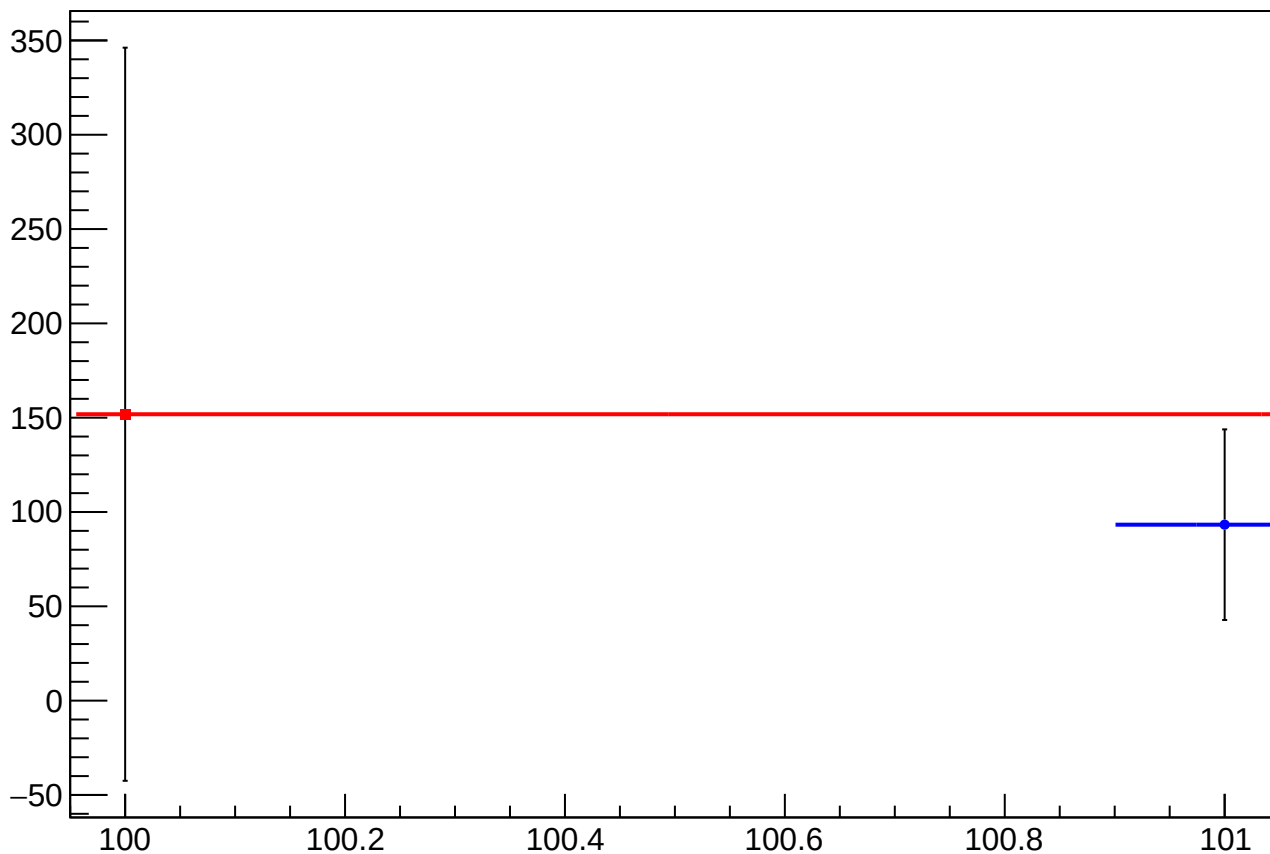
Right: 48.178 $\pm$ 0.046  $\chi^2$ /NDF: 2030.2/1

In: 47.480 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 48.178 $\pm$ 0.046  $\chi^2$ /NDF: 2030.2/1

eigen\_cor\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 93.283+/-50.519  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 151.834+/-194.330  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 96.989+/-48.894  $\chi^2/\text{NDF}$ : 0.1/1

In: 93.283+/-50.519  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.989+/-48.894  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 40.664 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 52.300 $\pm$ 0.137  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 41.401 $\pm$ 0.035  $\chi^2$ /NDF: 6716.0/1

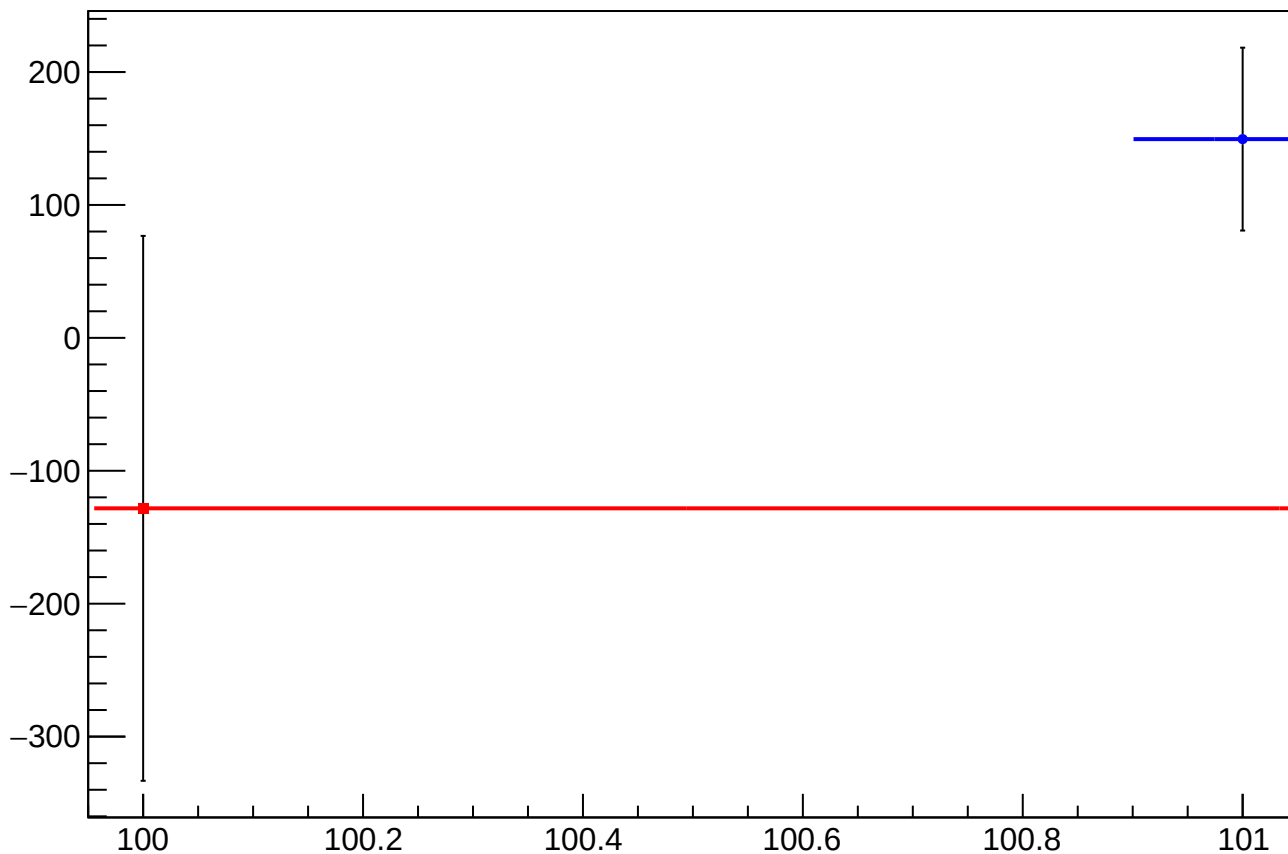
In: 40.664 $\pm$ 0.036  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 41.401 $\pm$ 0.035  $\chi^2$ /NDF: 6716.0/1



asym\_sam\_15\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 149.532 $\pm$ 68.798  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -128.260 $\pm$ 204.991  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

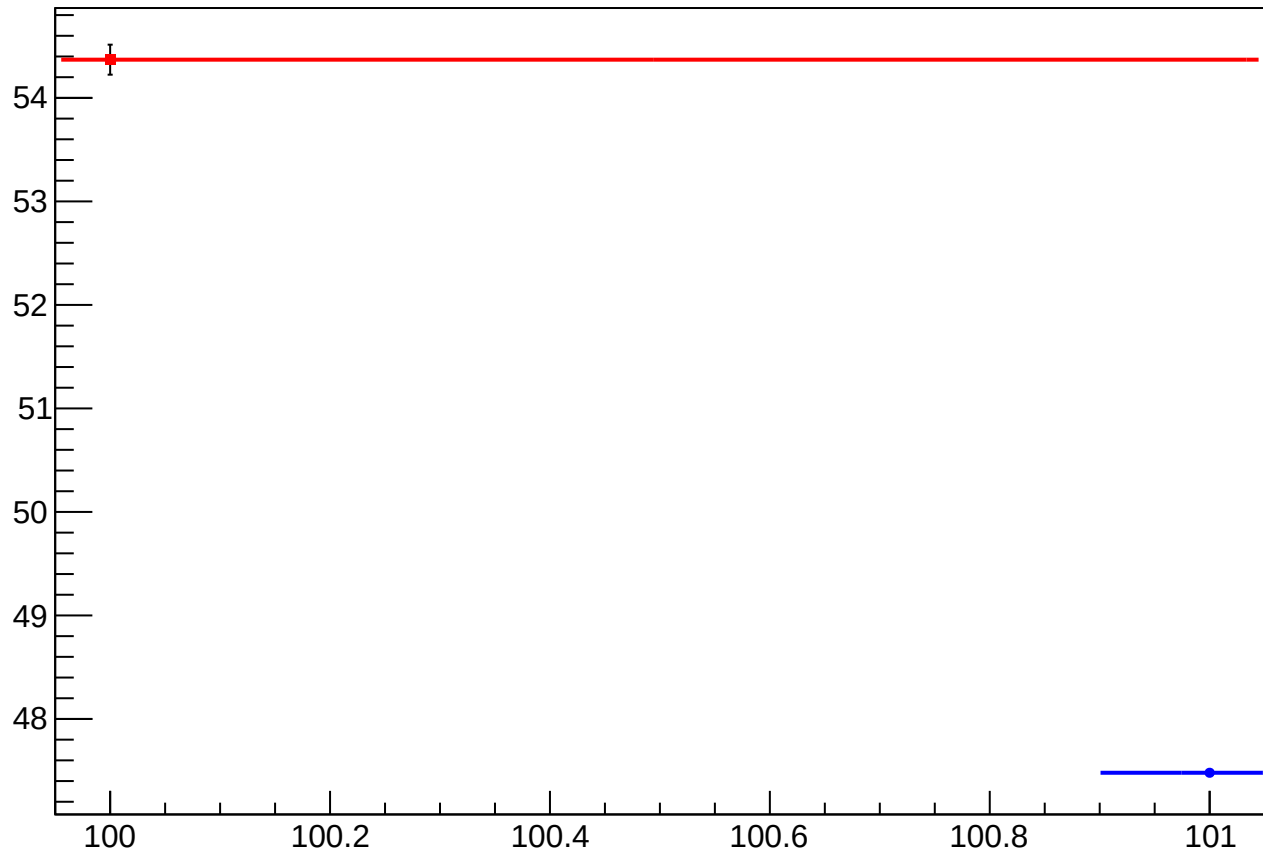
Right: 121.410 $\pm$ 65.223  $\chi^2$ /NDF: 1.7/1

In: 149.532 $\pm$ 68.798  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 121.410 $\pm$ 65.223  $\chi^2$ /NDF: 1.7/1

asym\_sam\_15\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 47.480 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 54.369 $\pm$ 0.145  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

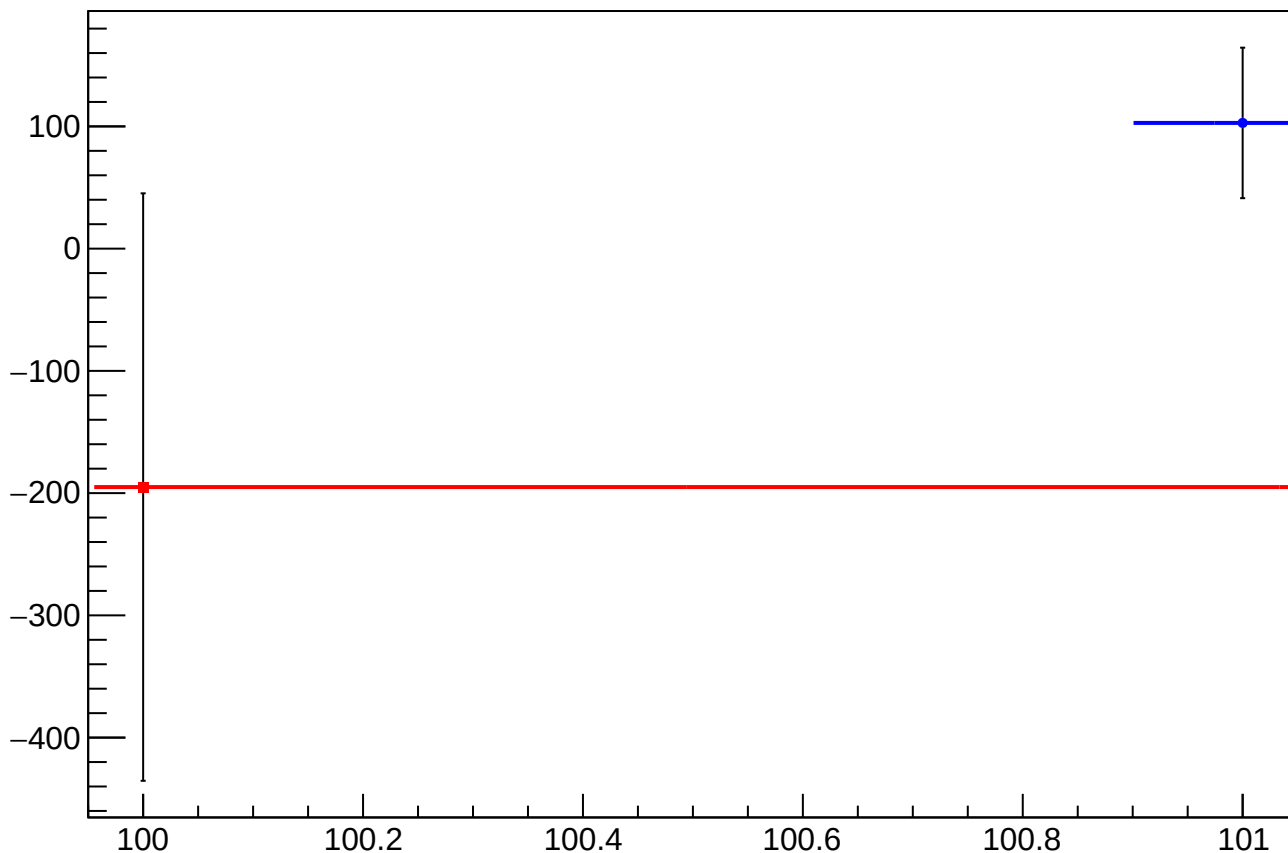
Right: 48.178 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 2030.2/1

In: 47.480 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.178 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 2030.2/1

dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 102.846 $\pm$ 61.561  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -195.049 $\pm$ 240.291  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

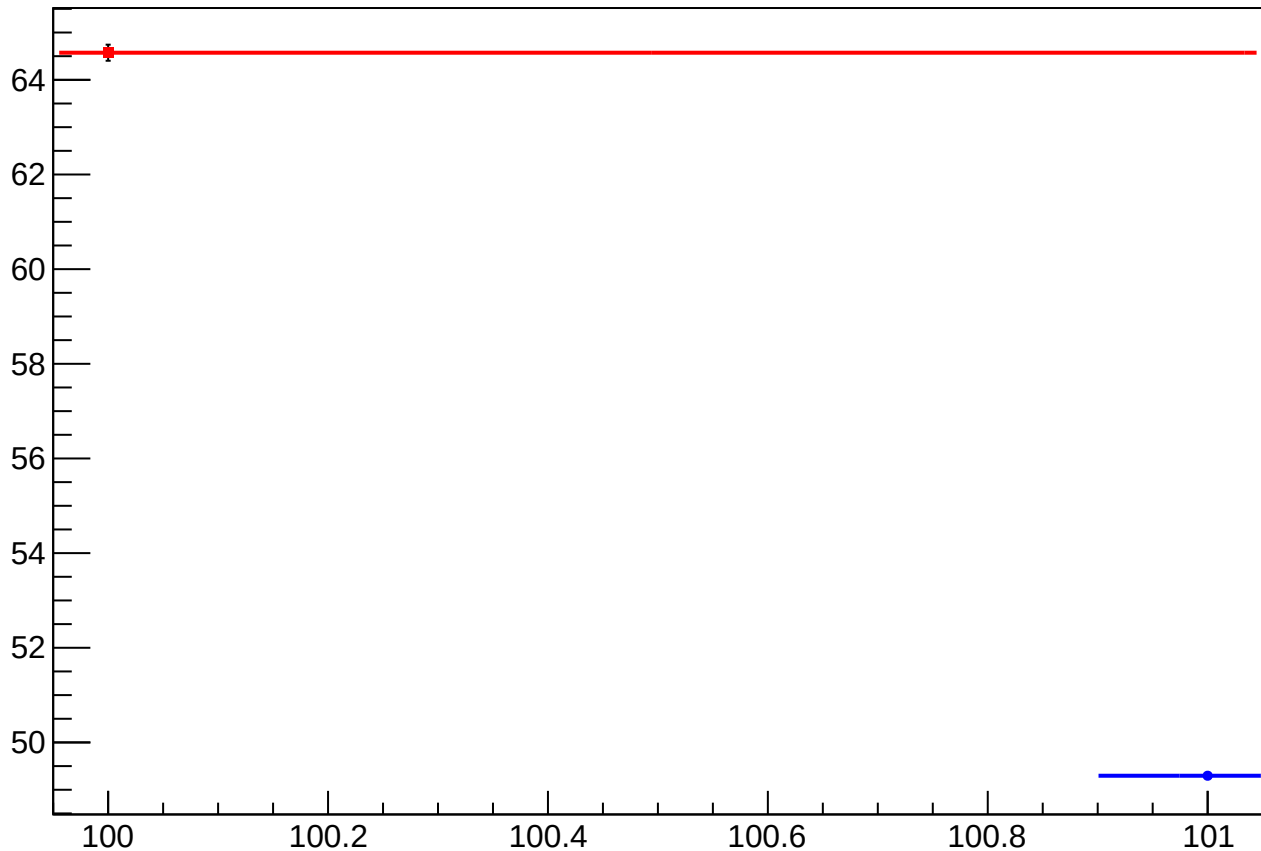
Right: 84.498 $\pm$ 59.635  $\chi^2$ /NDF: 1.4/1

In: 102.846 $\pm$ 61.561  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 84.498 $\pm$ 59.635  $\chi^2$ /NDF: 1.4/1

dit\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 49.296 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.573 $\pm$ 0.170  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

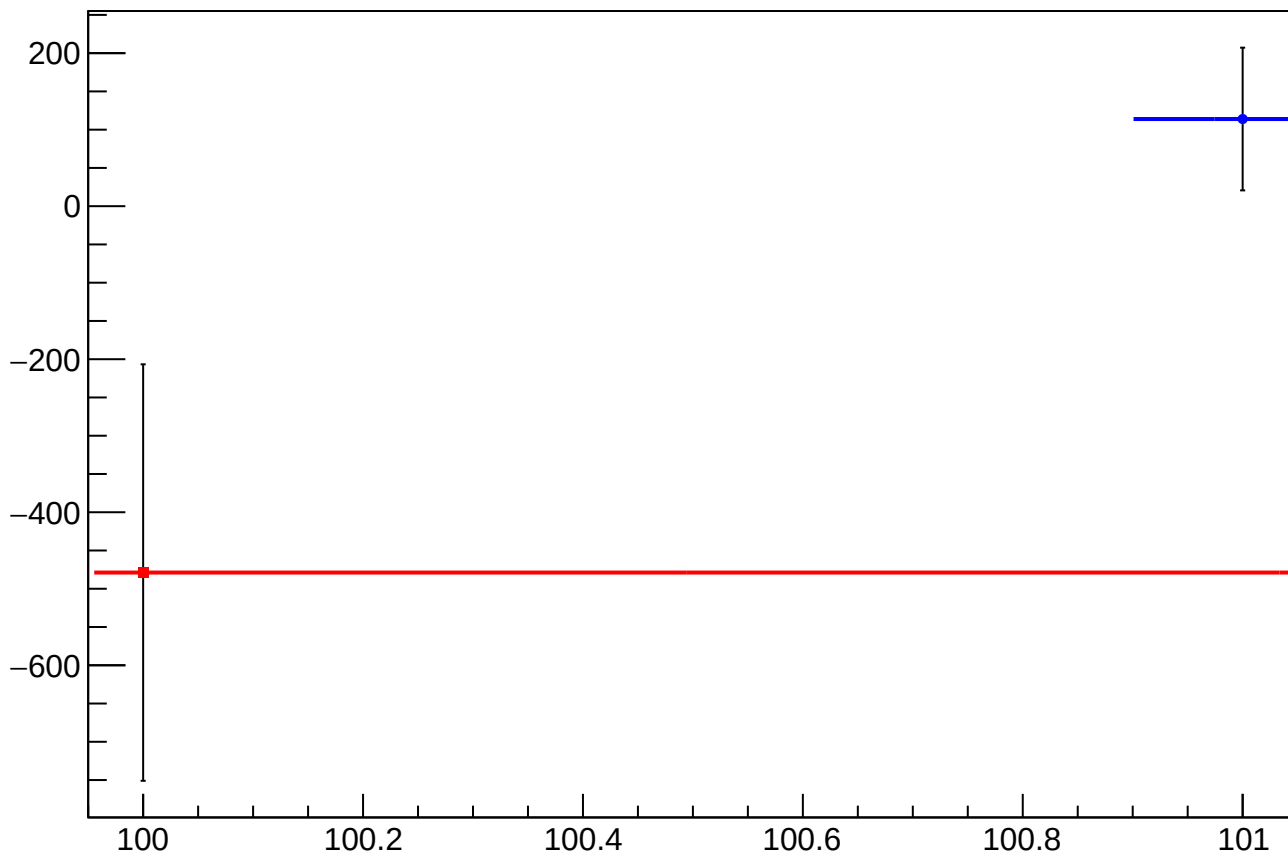
Right: 50.237 $\pm$ 0.042  $\chi^2$ /NDF: 7586.1/1

In: 49.296 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 50.237 $\pm$ 0.042  $\chi^2$ /NDF: 7586.1/1

asym\_sam\_15\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 113.910 $\pm$ 93.255  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -478.824 $\pm$ 272.170  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

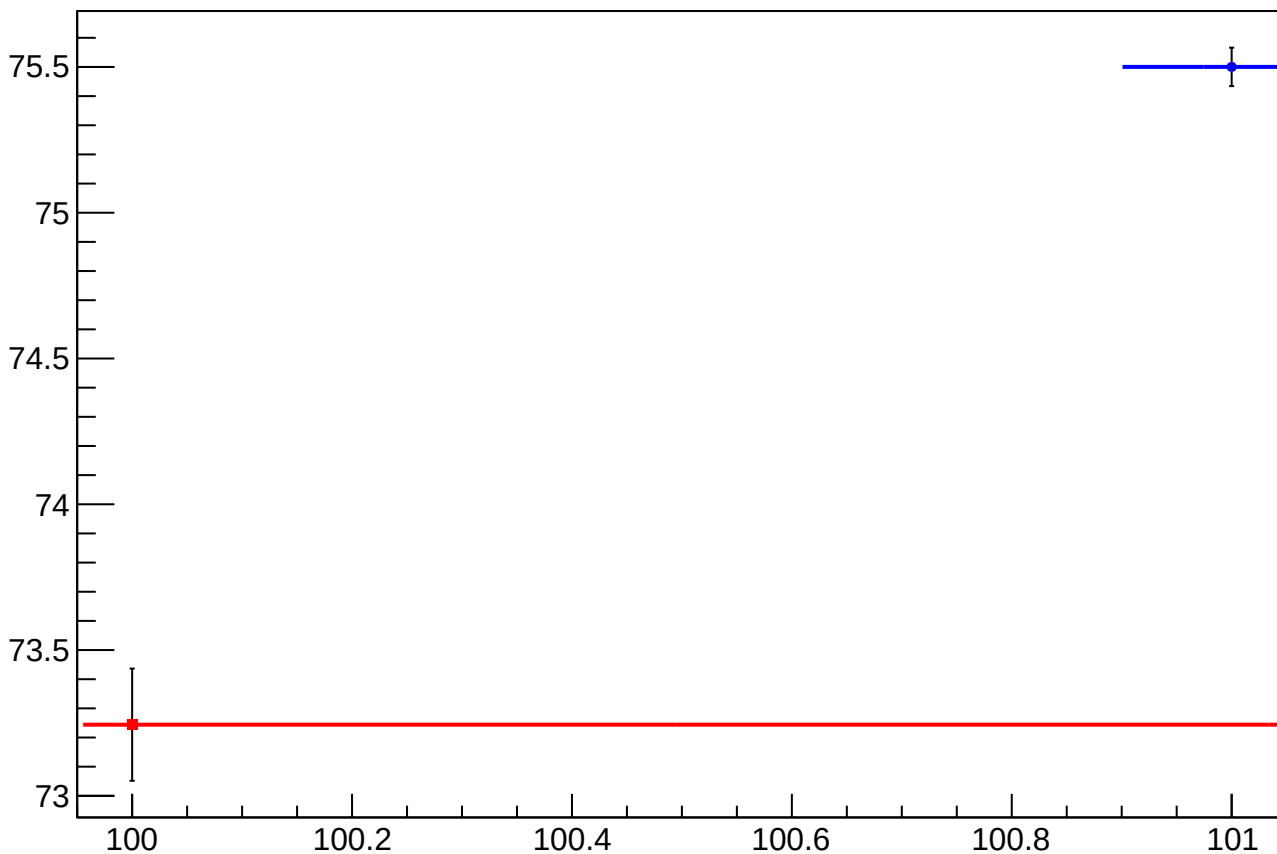
Right: 51.635 $\pm$ 88.220  $\chi^2$ /NDF: 4.2/1

In: 113.910 $\pm$ 93.255  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 51.635 $\pm$ 88.220  $\chi^2$ /NDF: 4.2/1

asym\_sam\_15\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 75.500 $\pm$ 0.066  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.244 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

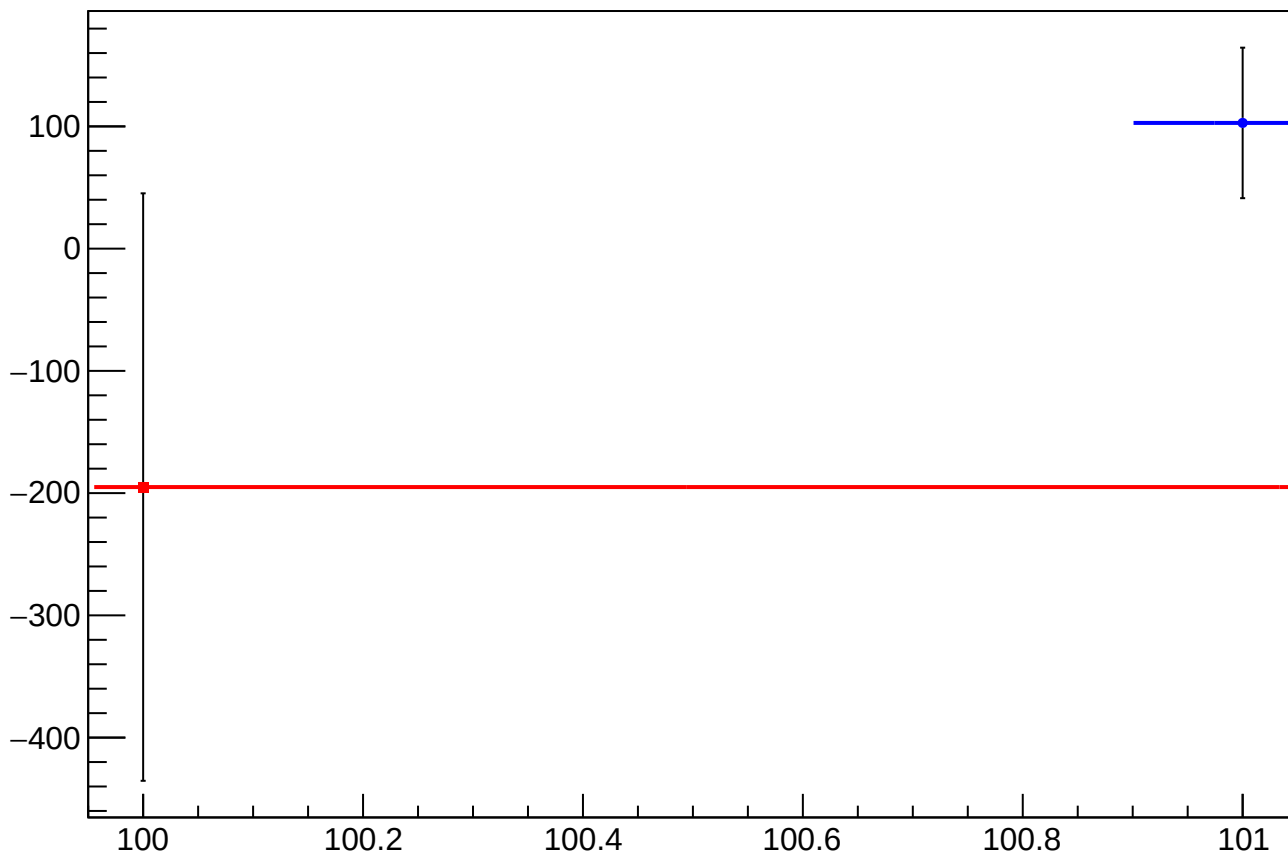
Right: 75.263 $\pm$ 0.062  $\chi^2$ /NDF: 123.0/1

In: 75.500 $\pm$ 0.066  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.263 $\pm$ 0.062  $\chi^2$ /NDF: 123.0/1

eigen\_dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 102.846 $\pm$ 61.561  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -195.048 $\pm$ 240.291  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

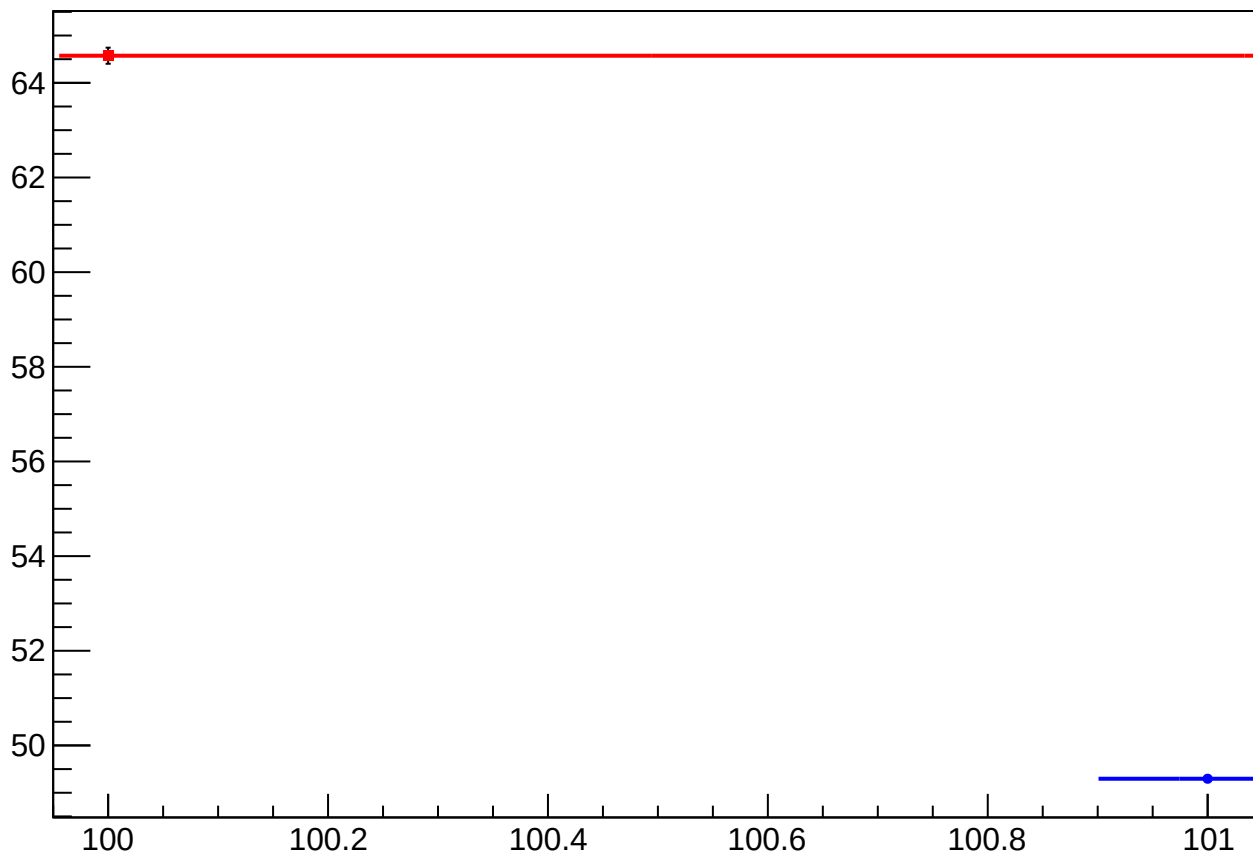
Right: 84.498 $\pm$ 59.635  $\chi^2$ /NDF: 1.4/1

In: 102.846 $\pm$ 61.561  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 84.498 $\pm$ 59.635  $\chi^2$ /NDF: 1.4/1

eigen\_dit\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 49.296+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.573+/-0.170  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 50.237+/-0.042  $\chi^2/\text{NDF}$ : 7586.2/1

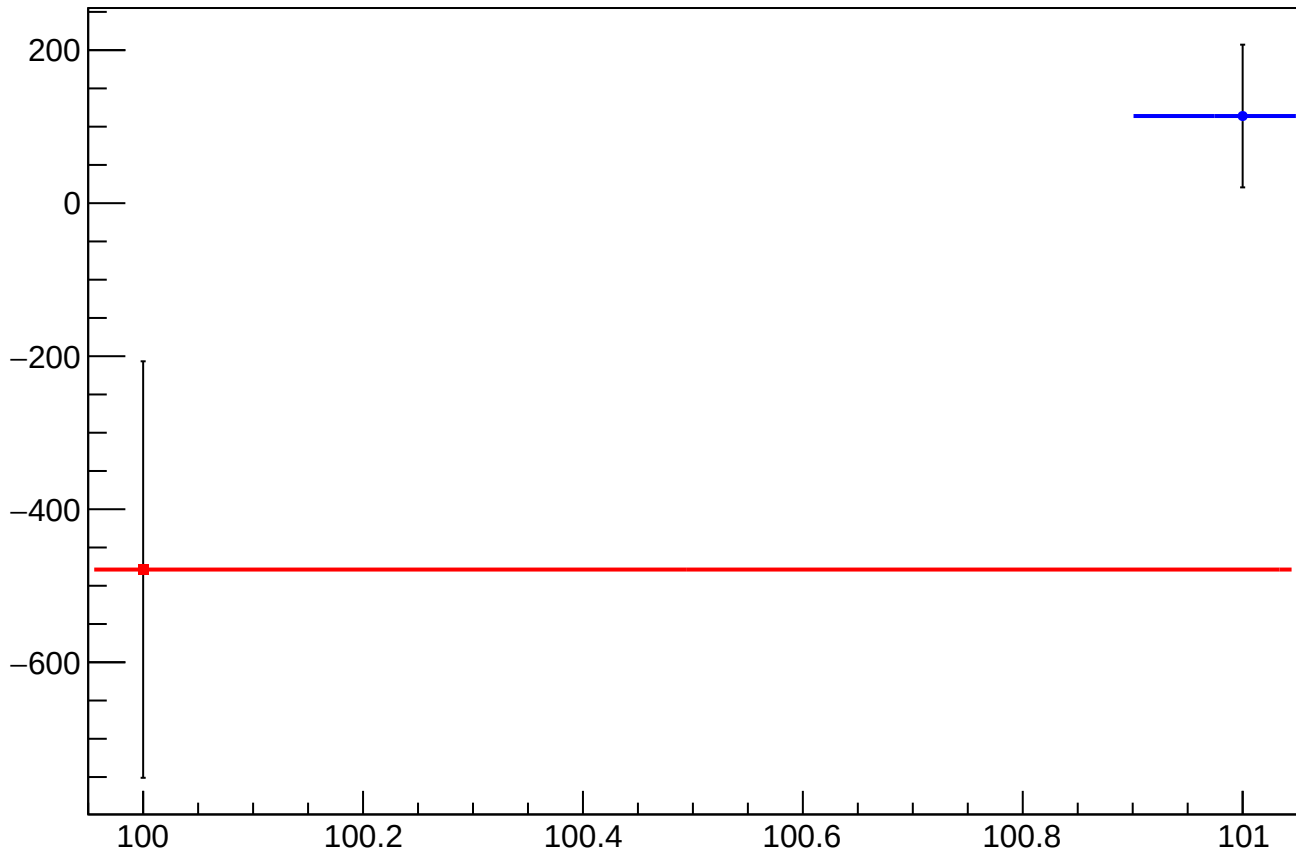
In: 49.296+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.237+/-0.042  $\chi^2/\text{NDF}$ : 7586.2/1



asym\_sam\_15\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 113.910 $\pm$ 93.255  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -478.823 $\pm$ 272.171  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

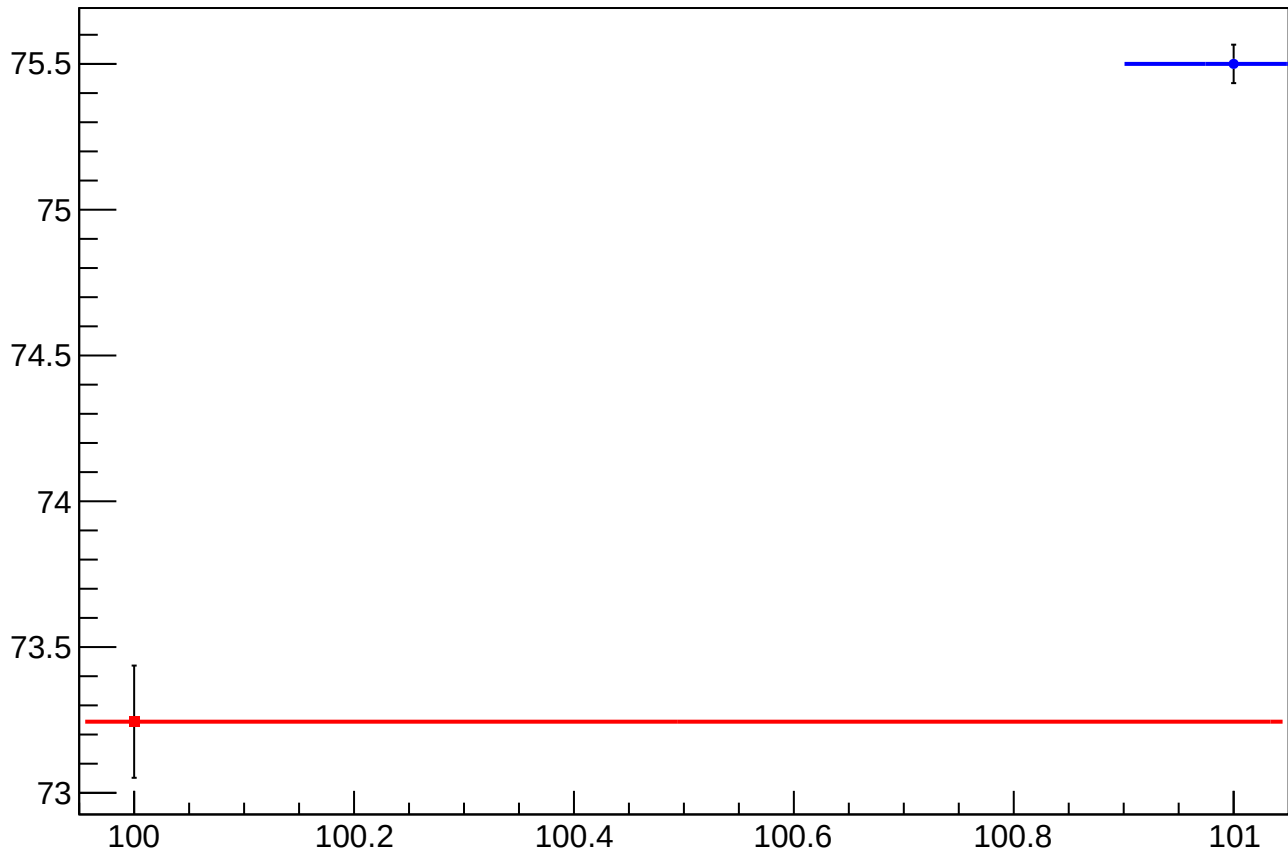
Right: 51.635 $\pm$ 88.220  $\chi^2$ /NDF: 4.2/1

In: 113.910 $\pm$ 93.255  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 51.635 $\pm$ 88.220  $\chi^2$ /NDF: 4.2/1

asym\_sam\_15\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 75.500 $\pm$ 0.066  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.244 $\pm$ 0.192  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

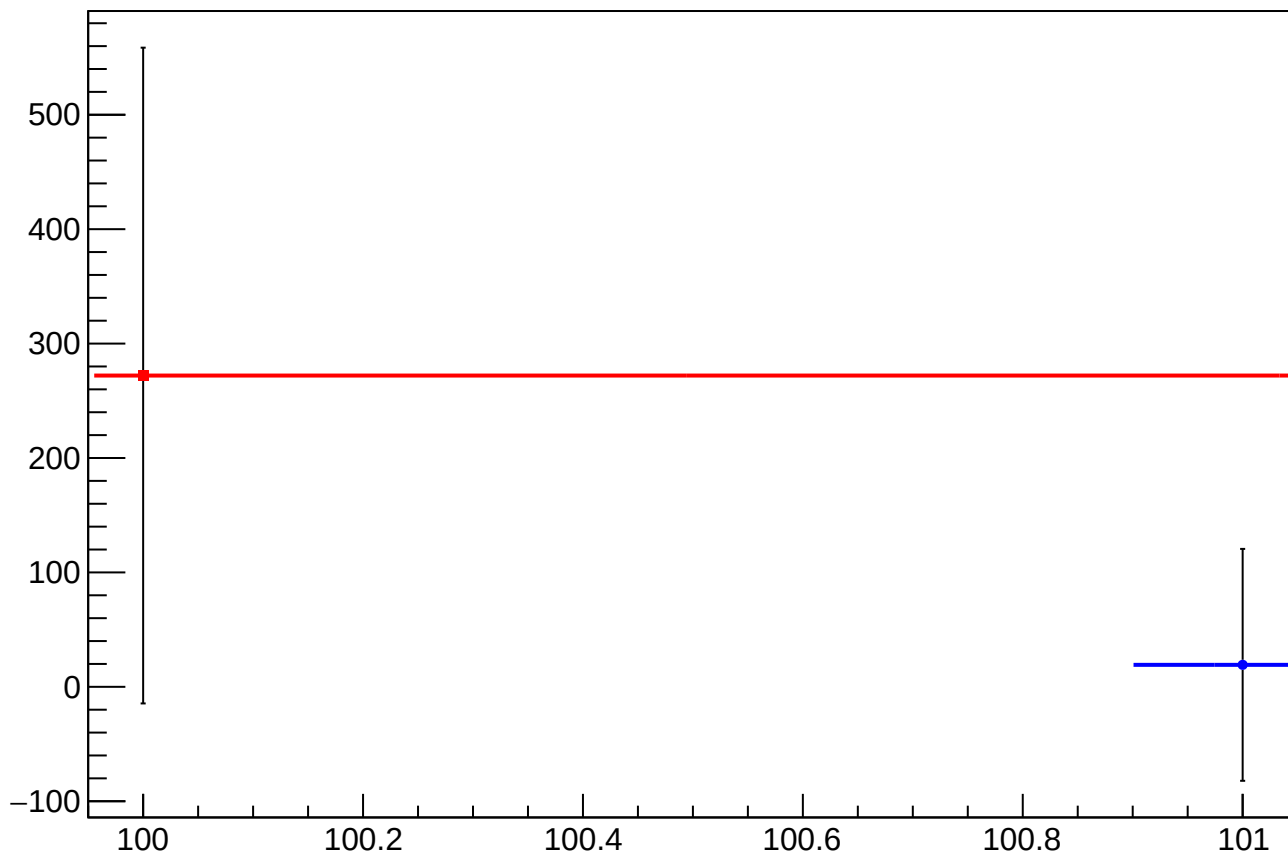
Right: 75.263 $\pm$ 0.062  $\chi^2$ /NDF: 123.0/1

In: 75.500 $\pm$ 0.066  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.263 $\pm$ 0.062  $\chi^2$ /NDF: 123.0/1

# asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 19.204+/-101.342  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 272.060+/-286.582  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

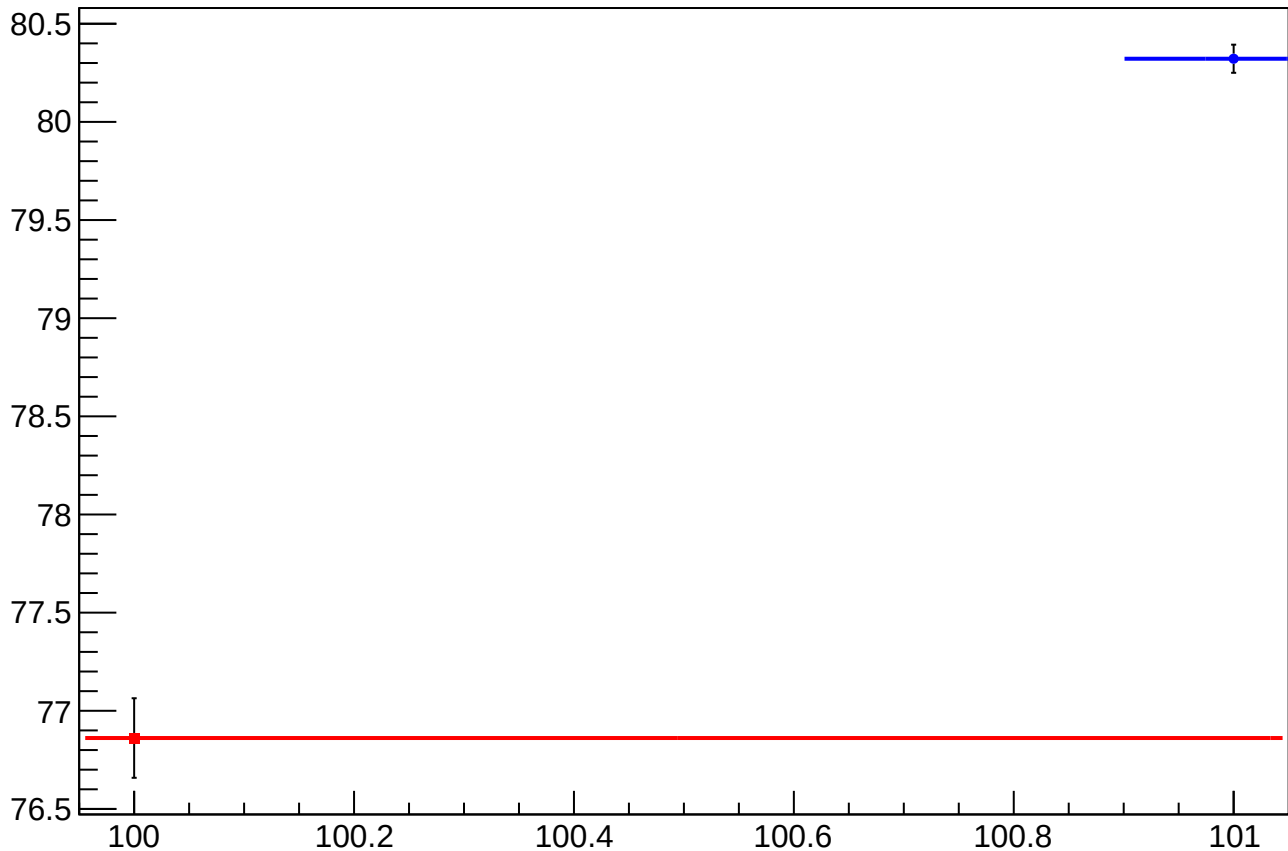
Right: 47.309+/-95.544  $\chi^2/\text{NDF}$ : 0.7/1

In: 19.204+/-101.342  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.309+/-95.544  $\chi^2/\text{NDF}$ : 0.7/1

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 80.322+/-0.072  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 76.861+/-0.203  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

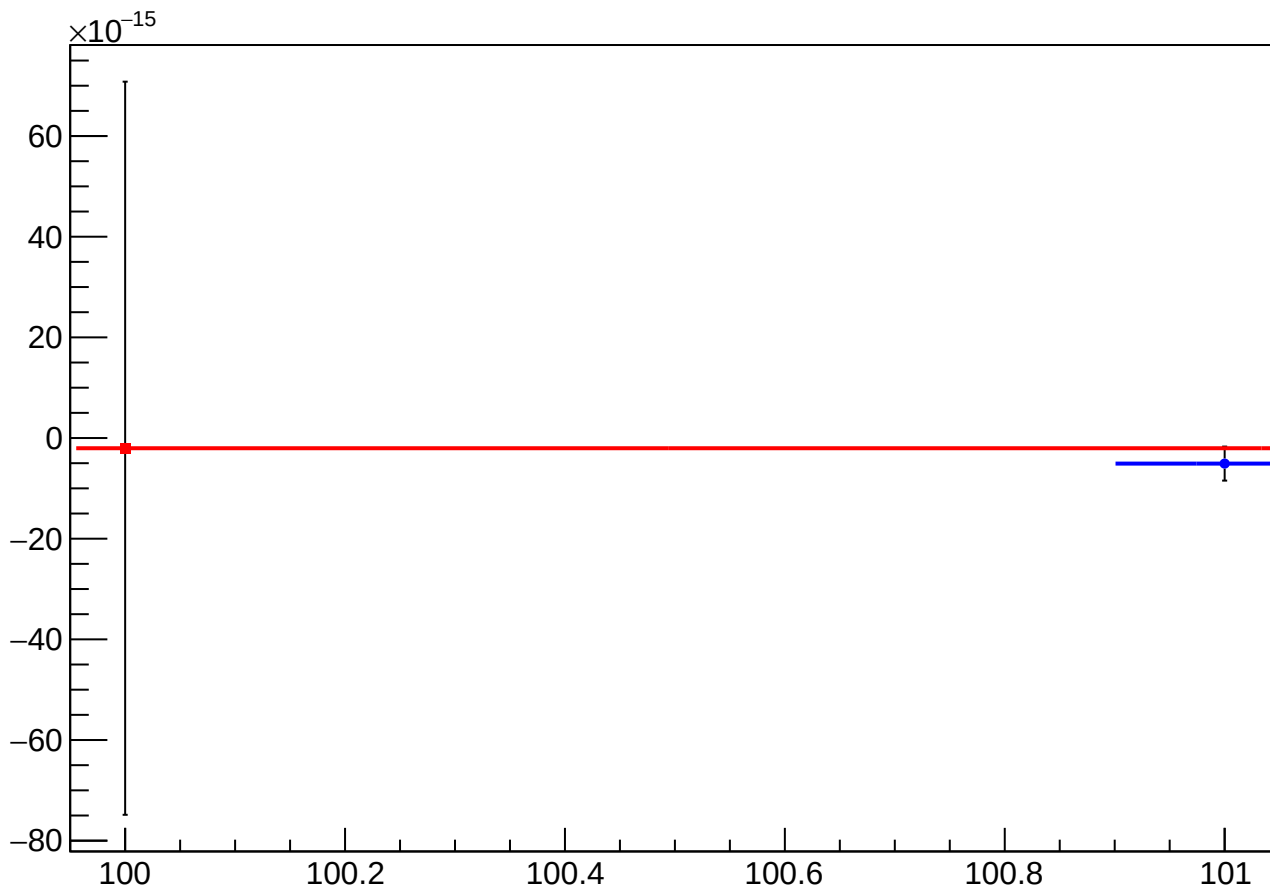
Right: 79.937+/-0.068  $\chi^2/\text{NDF}$ : 259.2/1

In: 80.322+/-0.072  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 79.937+/-0.068  $\chi^2/\text{NDF}$ : 259.2/1

asym\_sam\_15\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

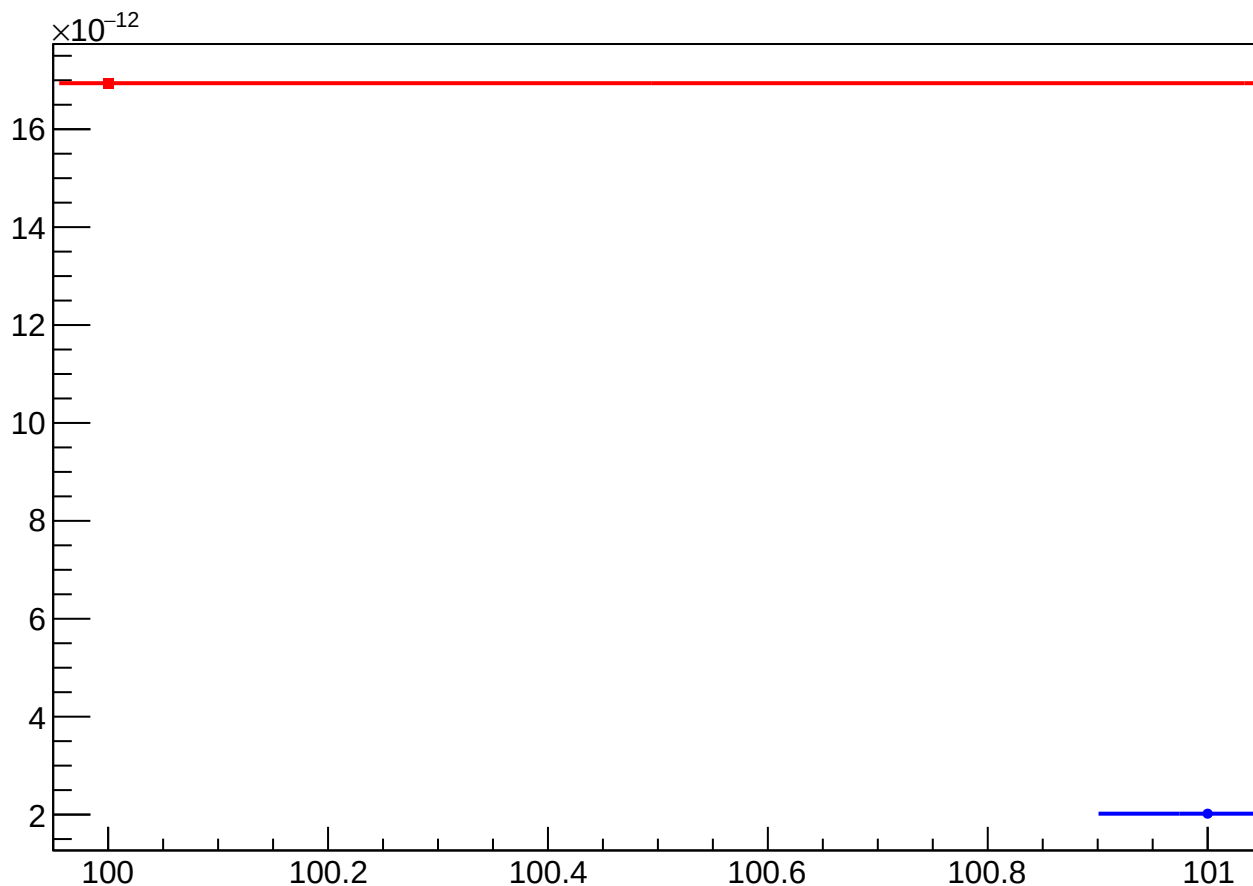
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

asym\_sam\_15\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

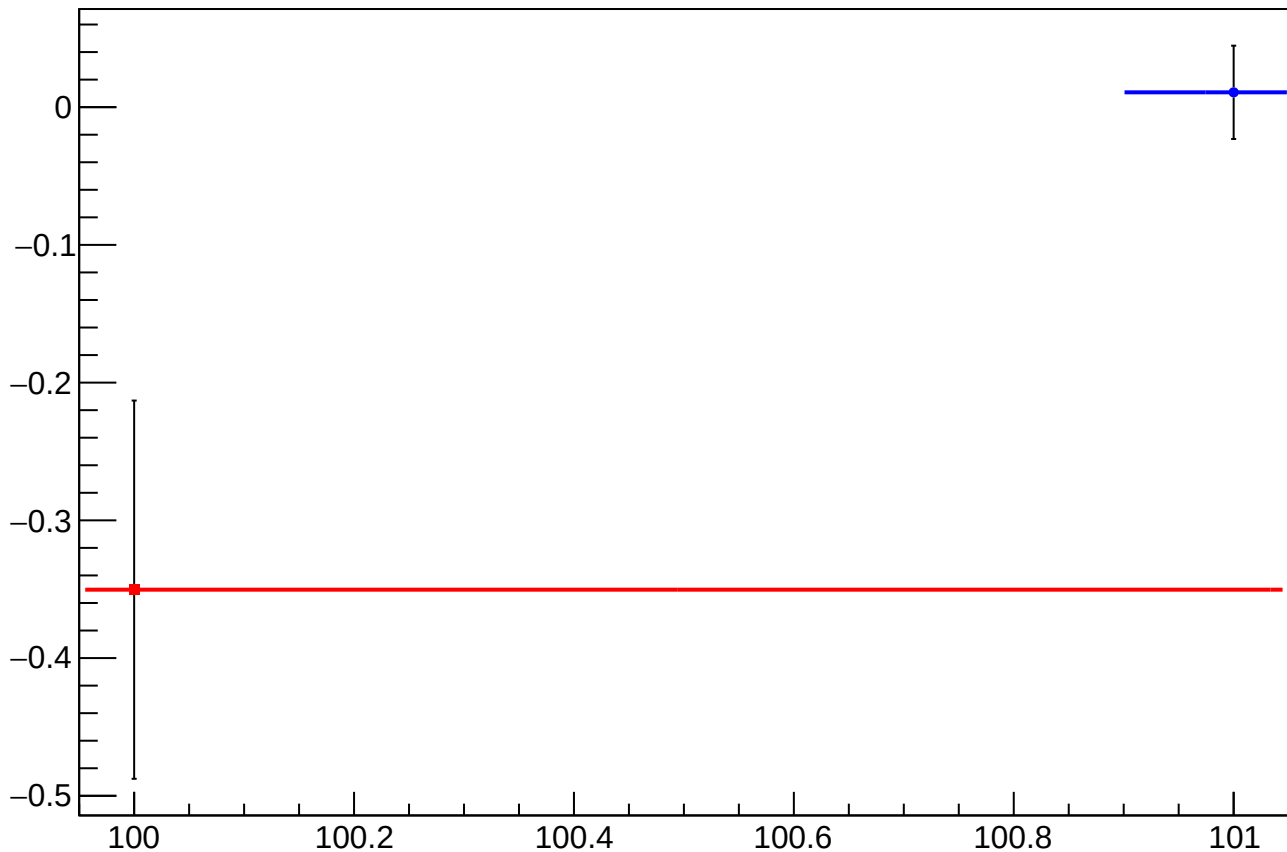
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 83774.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 83774.5/1

asym\_sam\_15\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.011 $\pm$ 0.034  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.350 $\pm$ 0.137  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

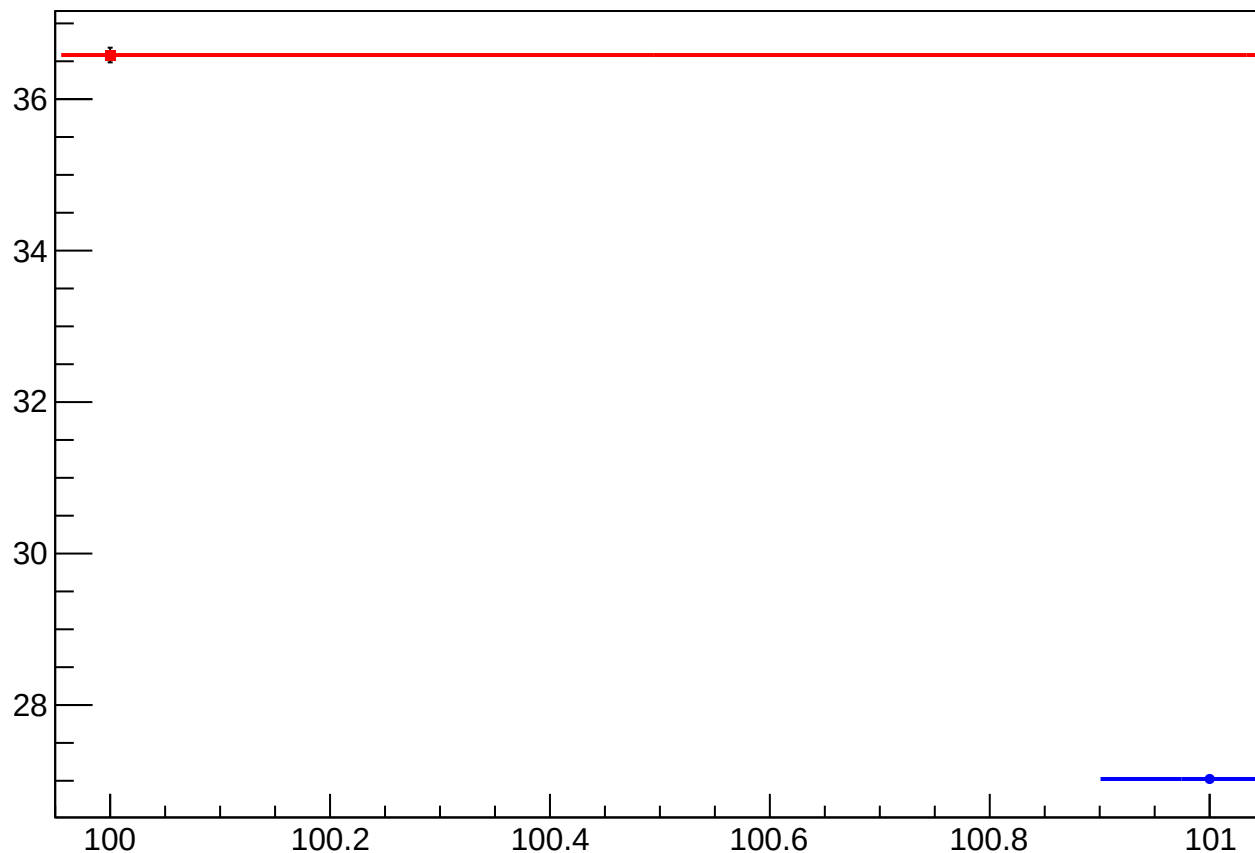
Right: -0.010 $\pm$ 0.033  $\chi^2$ /NDF: 6.5/1

In: 0.011 $\pm$ 0.034  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.010 $\pm$ 0.033  $\chi^2$ /NDF: 6.5/1

asym\_sam\_15\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 27.024 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.582 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 27.572 $\pm$ 0.023  $\chi^2$ /NDF: 9135.7/1

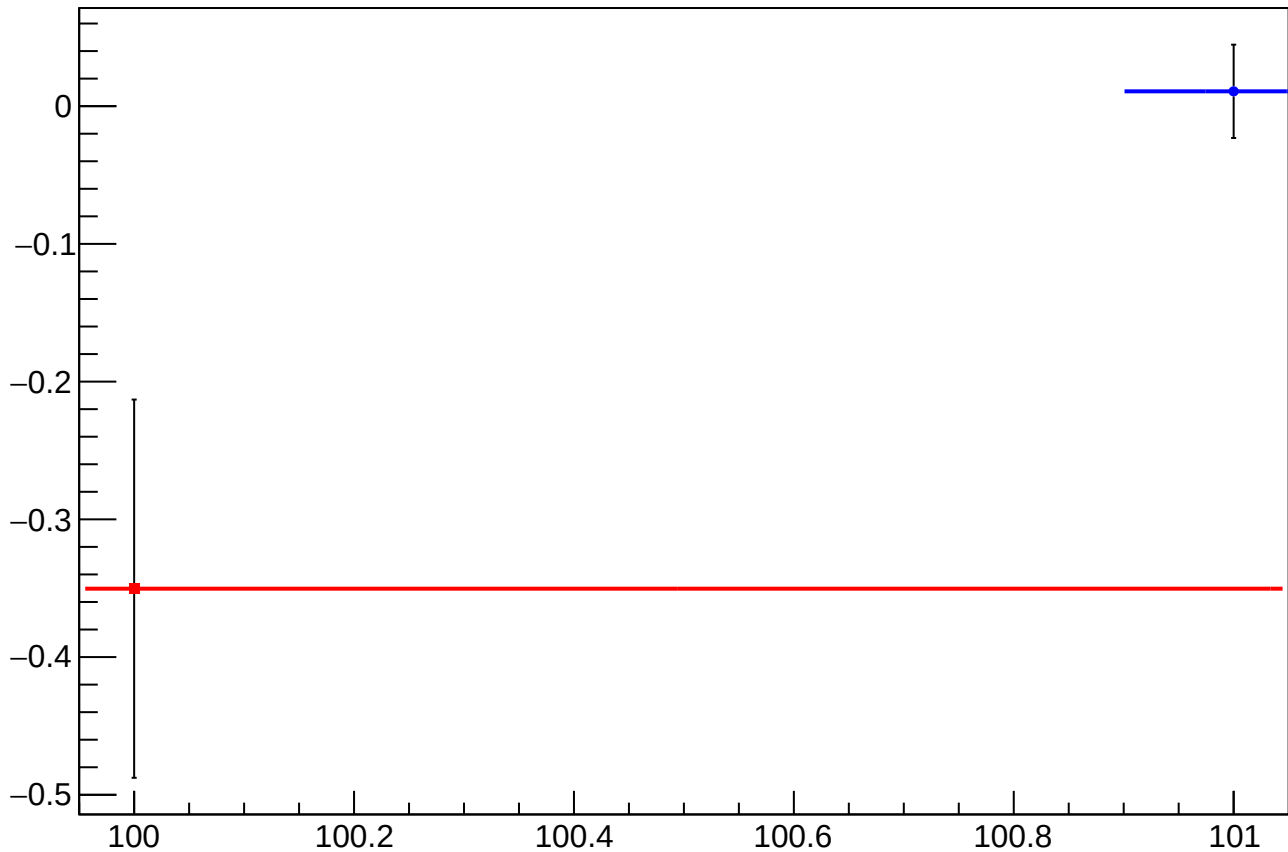
In: 27.024 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.572 $\pm$ 0.023  $\chi^2$ /NDF: 9135.7/1



asym\_sam\_15\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.011+/-0.034  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.350+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

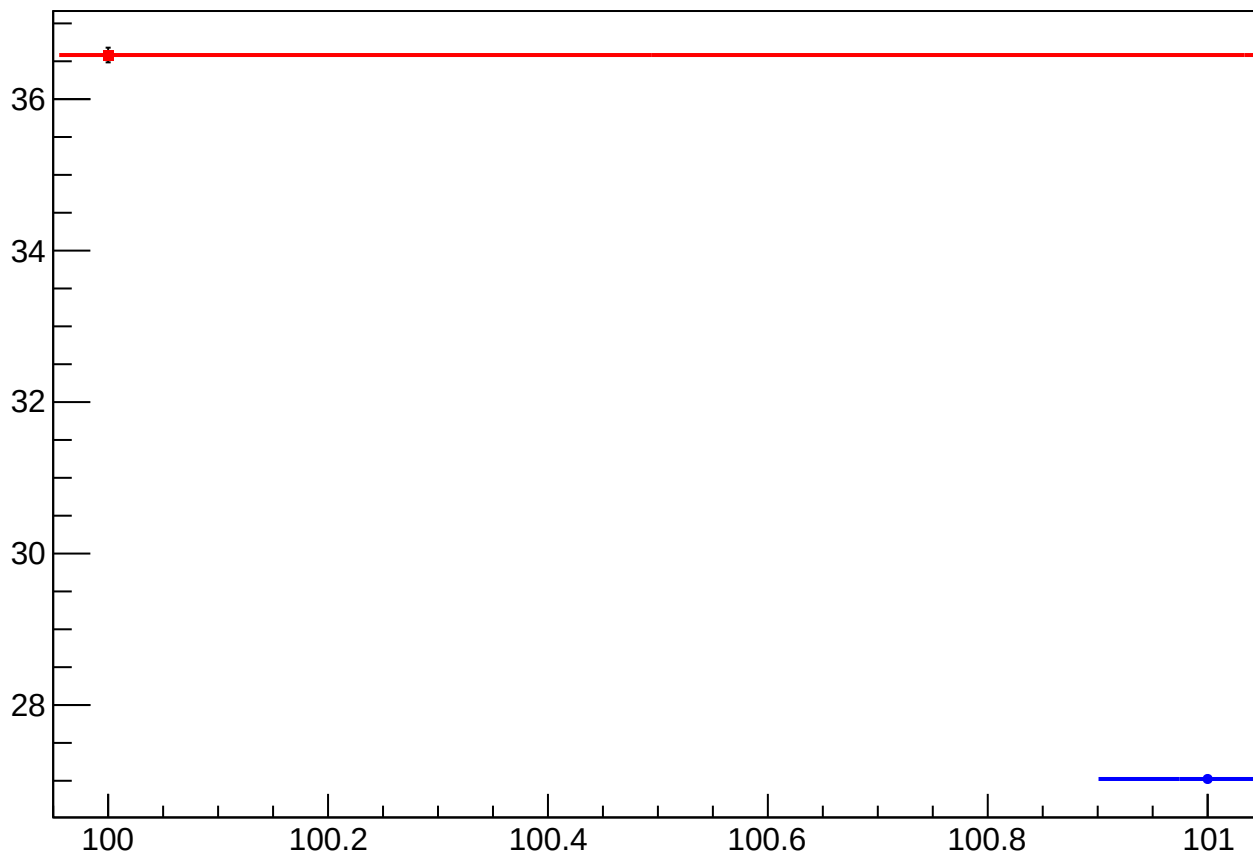
Right: -0.010+/-0.033  $\chi^2/\text{NDF}$ : 6.5/1

In: 0.011+/-0.034  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.010+/-0.033  $\chi^2/\text{NDF}$ : 6.5/1

asym\_sam\_15\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 27.024 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.582 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

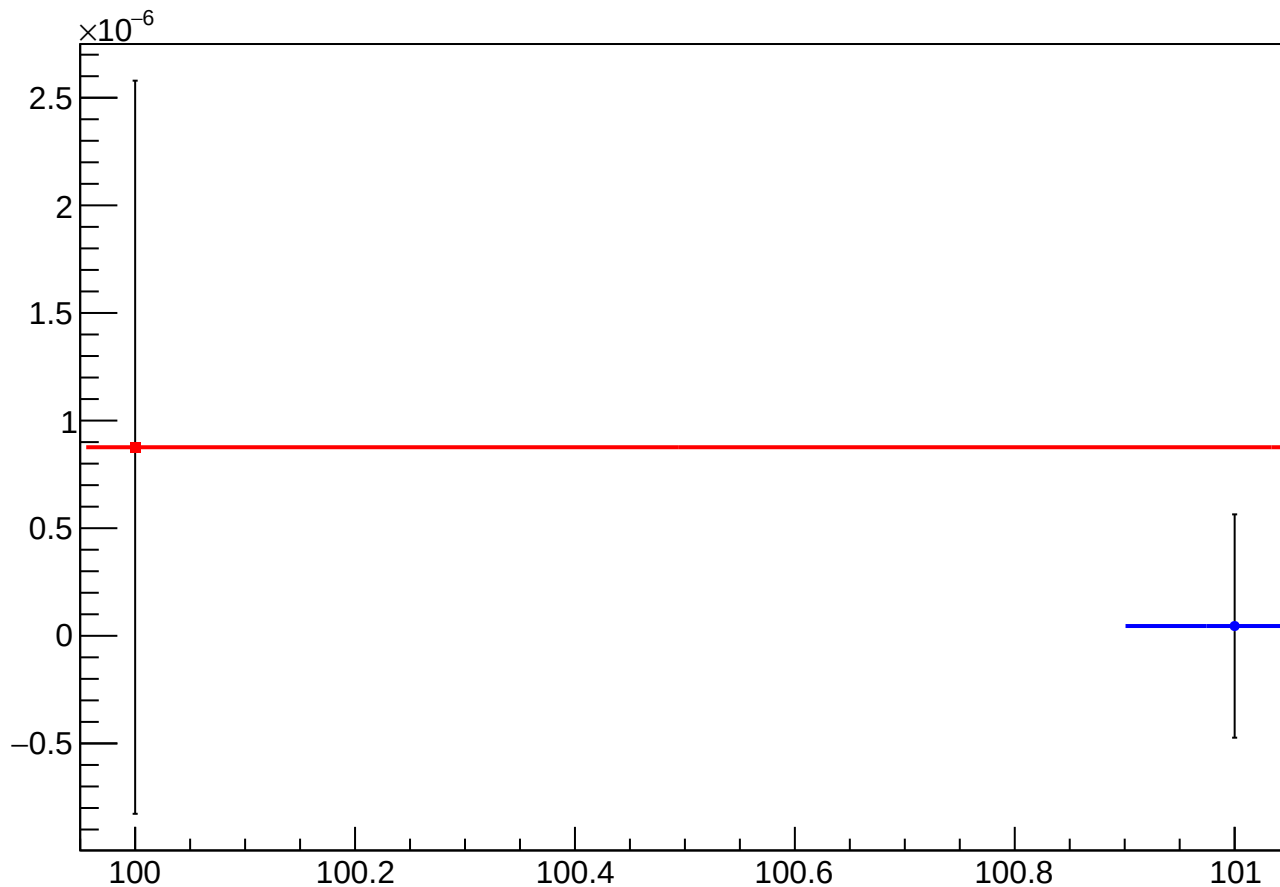
Right: 27.572 $\pm$ 0.023  $\chi^2$ /NDF: 9135.7/1

In: 27.024 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.572 $\pm$ 0.023  $\chi^2$ /NDF: 9135.7/1

asym\_sam\_15\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

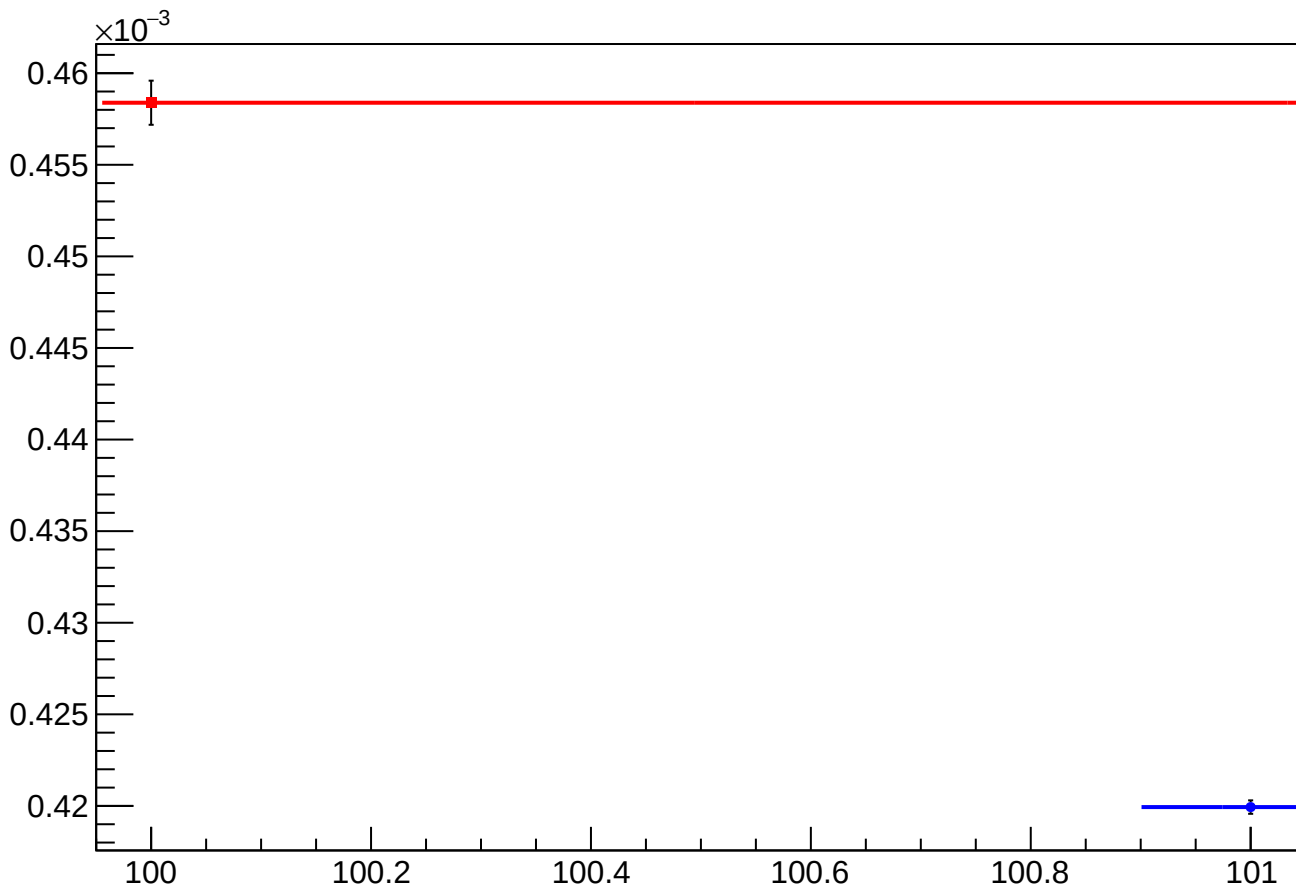
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

asym\_sam\_15\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

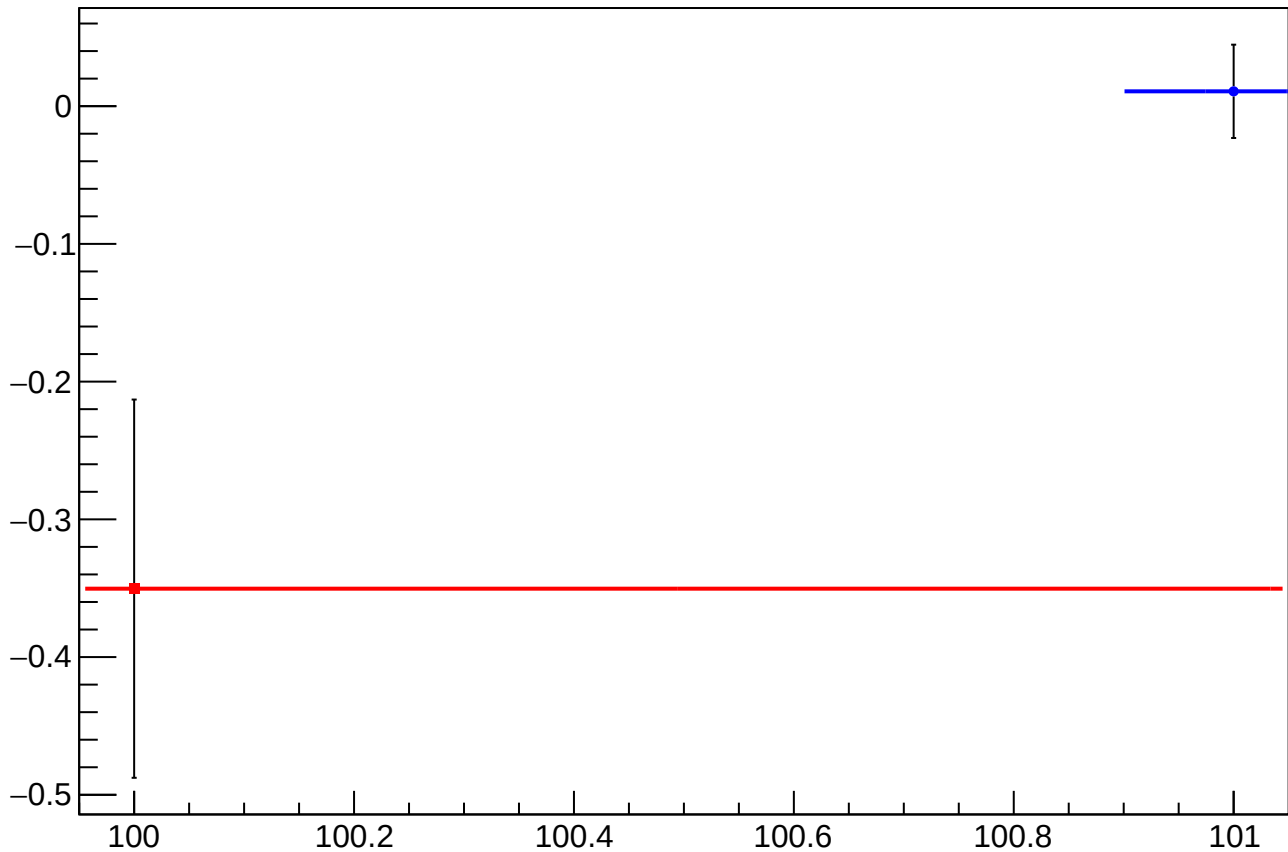
Right: 0.000+/-0.000  $\chi^2$ /NDF: 932.9/1

In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 932.9/1

asym\_sam\_15\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $0.011 \pm 0.034$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.350 \pm 0.137$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

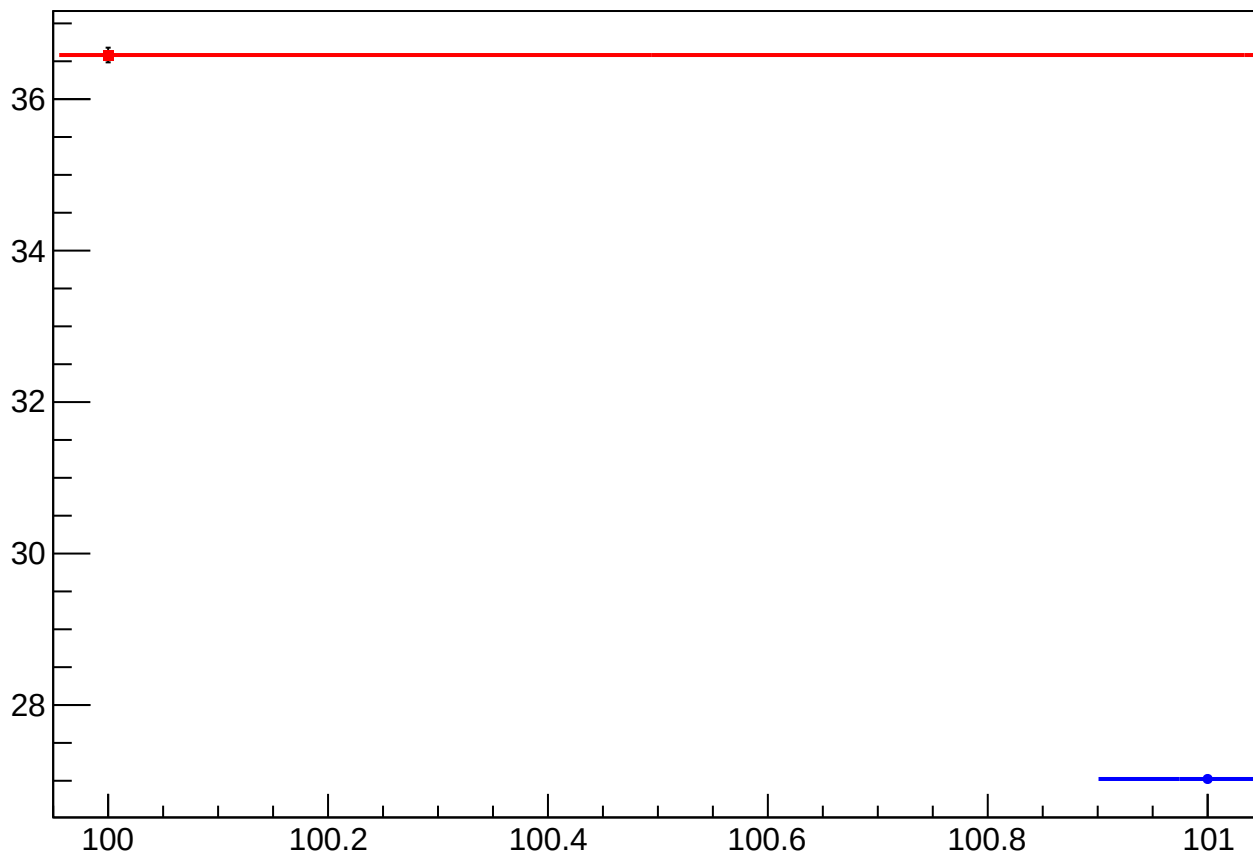
Right:  $-0.010 \pm 0.033$   $\chi^2/\text{NDF}: 6.5/1$

In:  $0.011 \pm 0.034$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.010 \pm 0.033$   $\chi^2/\text{NDF}: 6.5/1$

asym\_sam\_15\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 27.024 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.582 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

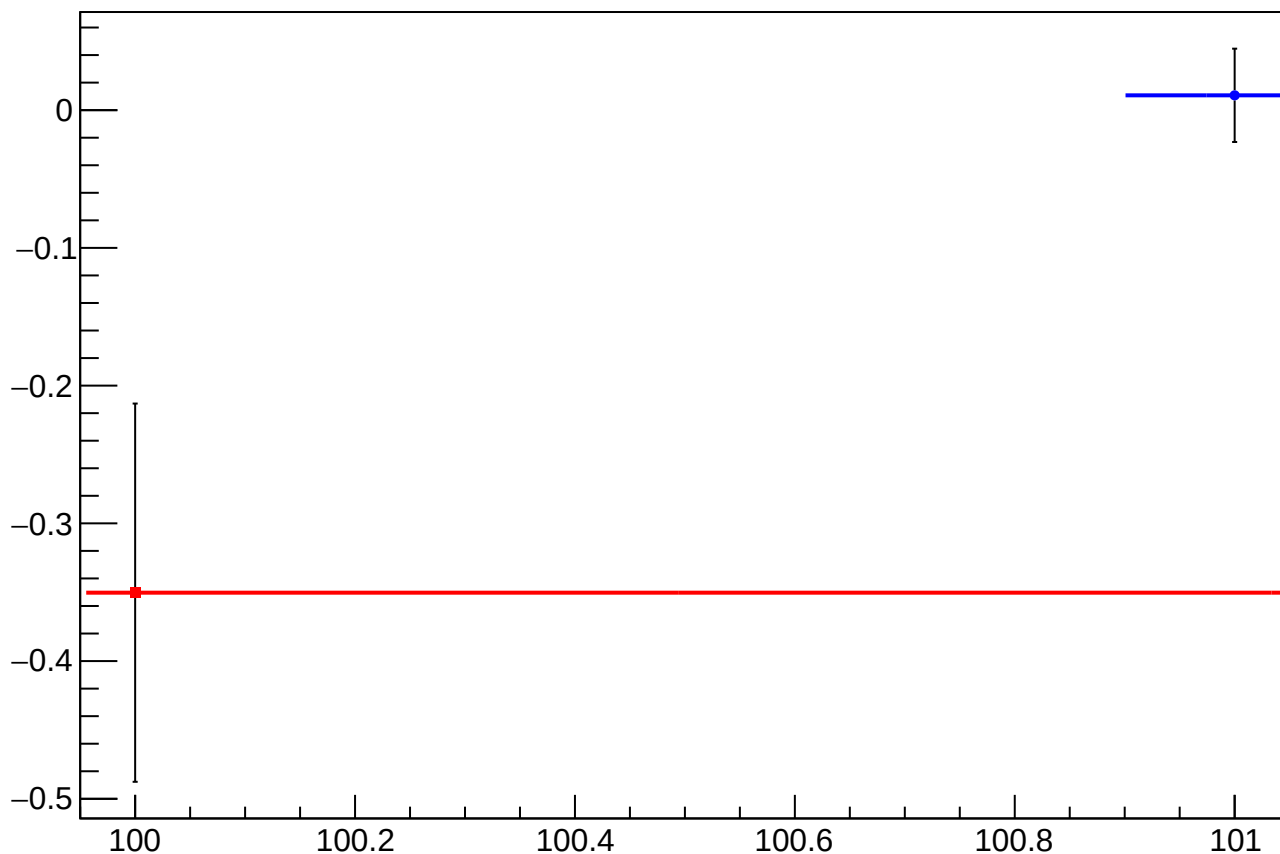
Right: 27.572 $\pm$ 0.023  $\chi^2$ /NDF: 9135.7/1

In: 27.024 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.572 $\pm$ 0.023  $\chi^2$ /NDF: 9135.7/1

asym\_sam\_15\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.011+/-0.034  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.350+/-0.137  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

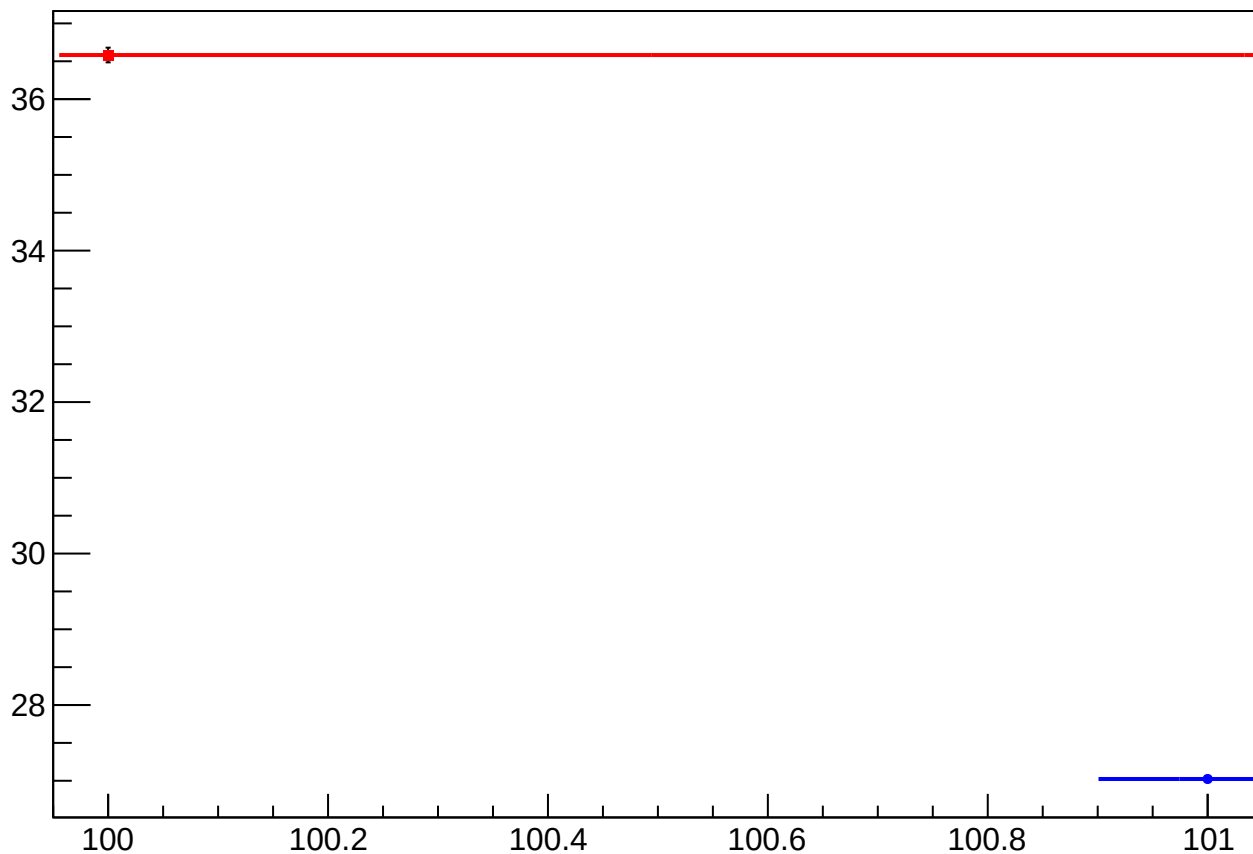
Right: -0.010+/-0.033  $\chi^2/\text{NDF}$ : 6.5/1

In: 0.011+/-0.034  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.010+/-0.033  $\chi^2/\text{NDF}$ : 6.5/1

asym\_sam\_15\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 27.024 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 36.582 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 27.572 $\pm$ 0.023  $\chi^2$ /NDF: 9135.7/1

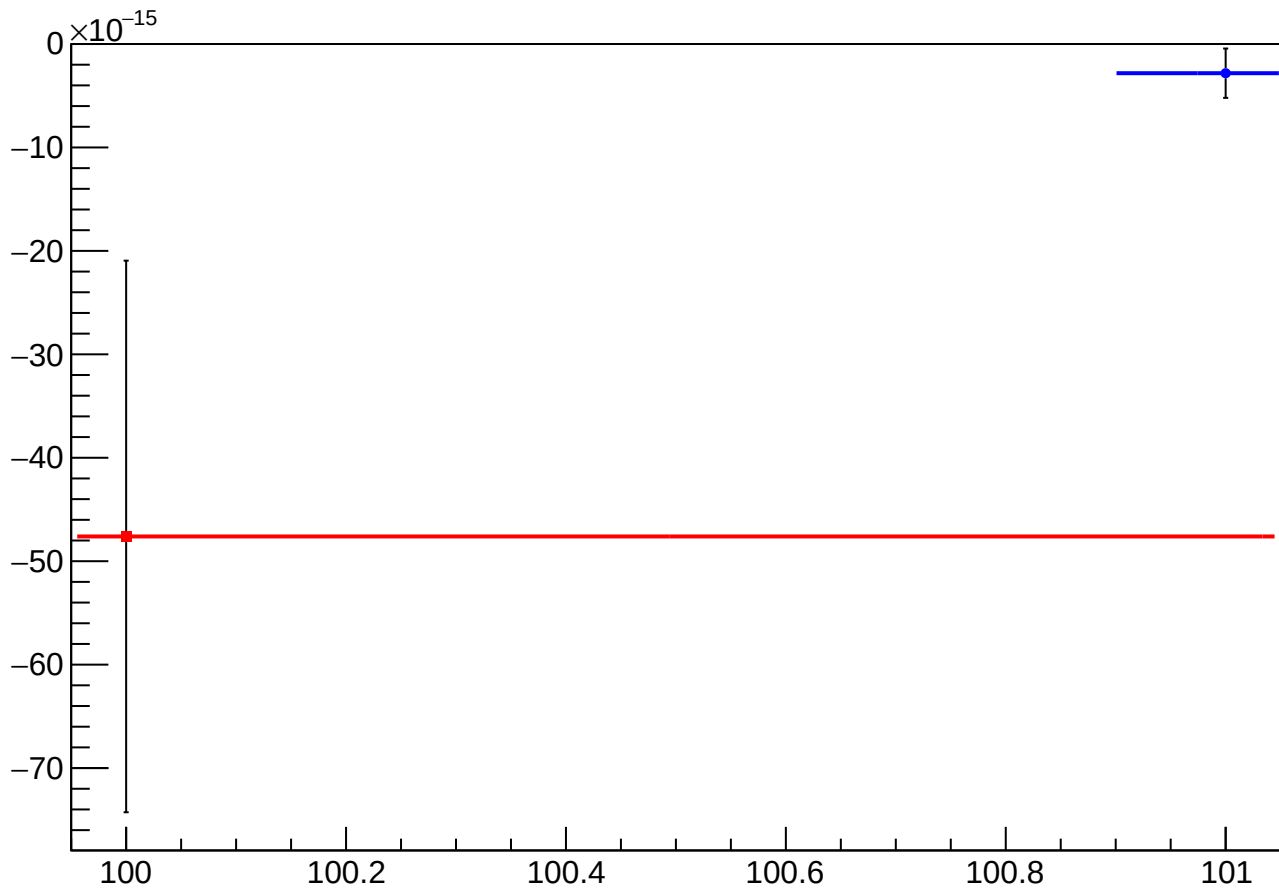
In: 27.024 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.572 $\pm$ 0.023  $\chi^2$ /NDF: 9135.7/1



asym\_sam\_15\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

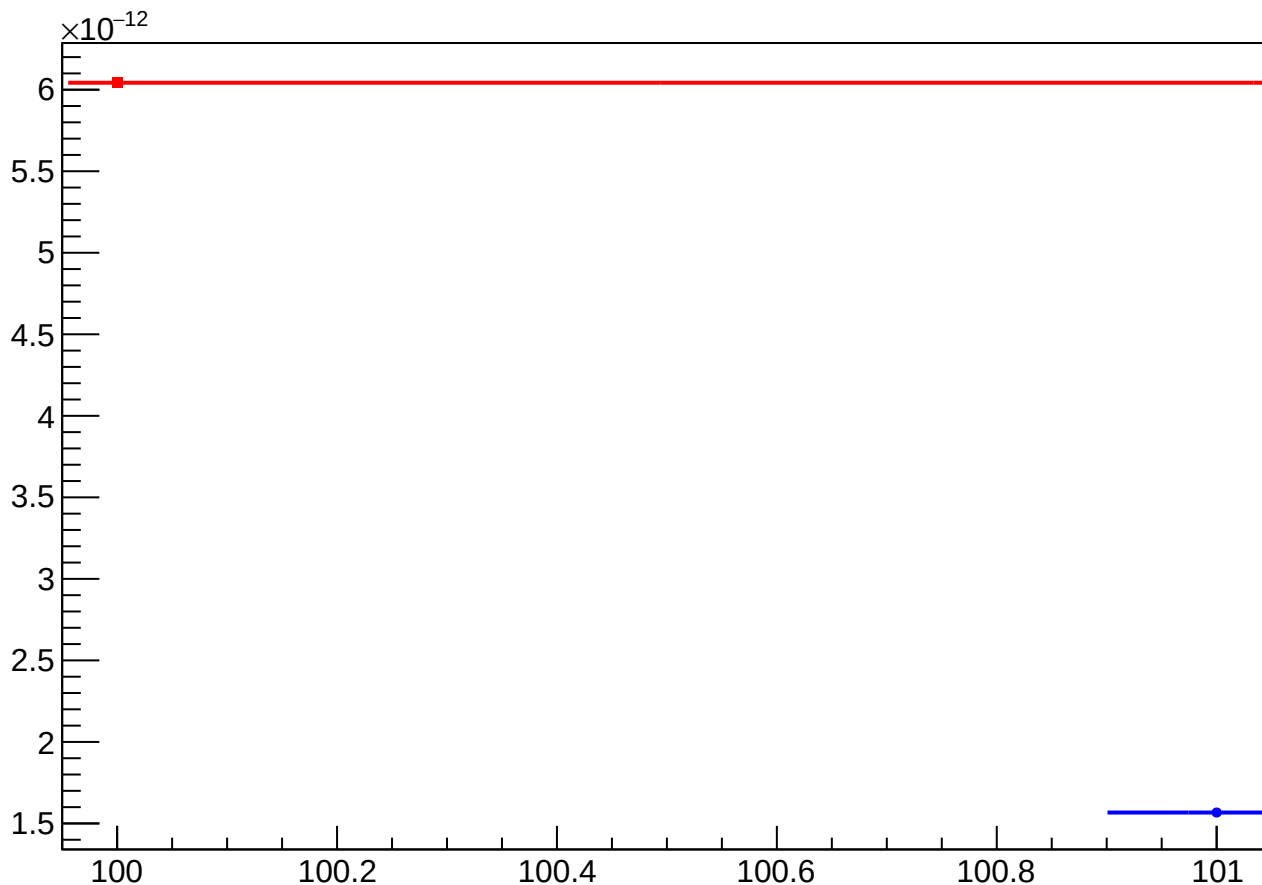
Right:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 2.8/1

In:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 2.8/1

asym\_sam\_15\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

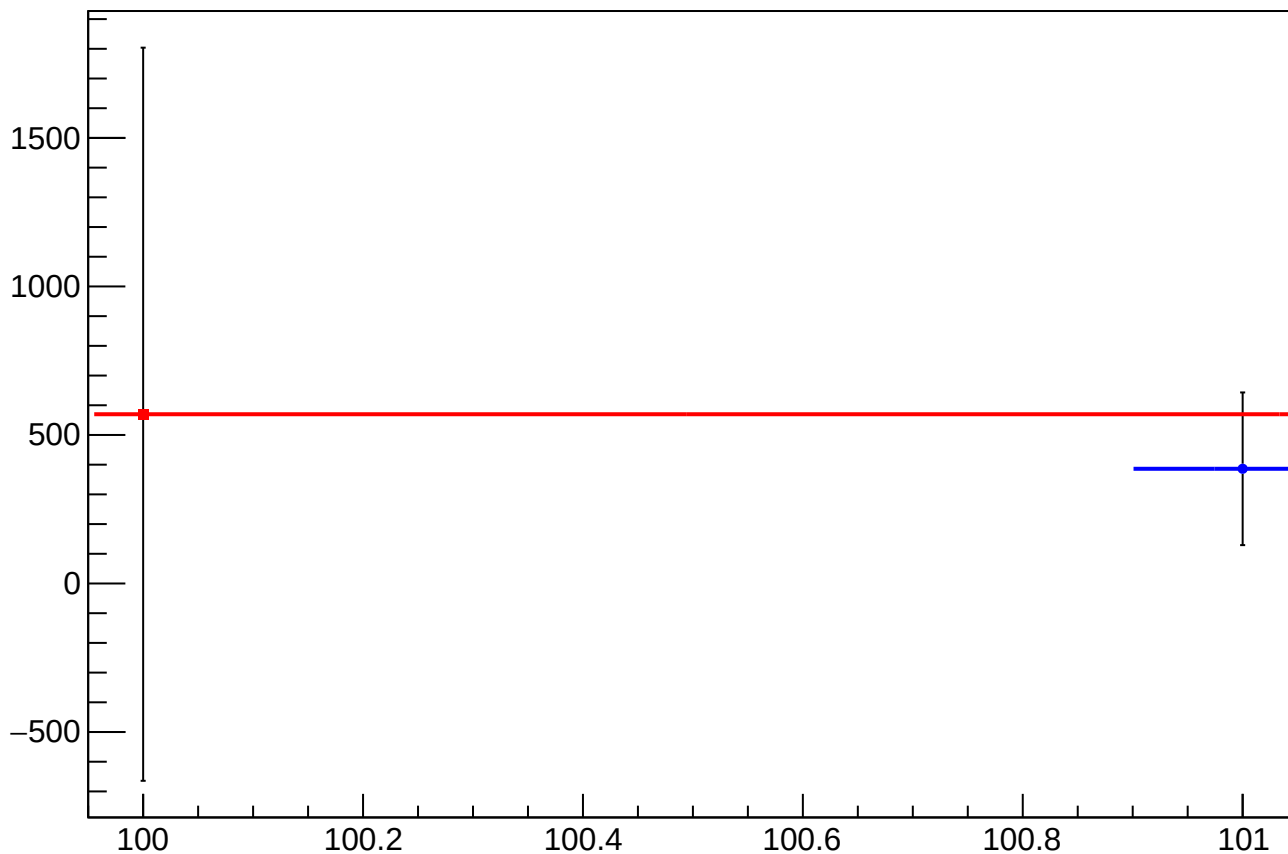
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 55907.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 55907.1/1

reg\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 386.152 $\pm$ 256.981  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 569.796 $\pm$ 1234.027  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

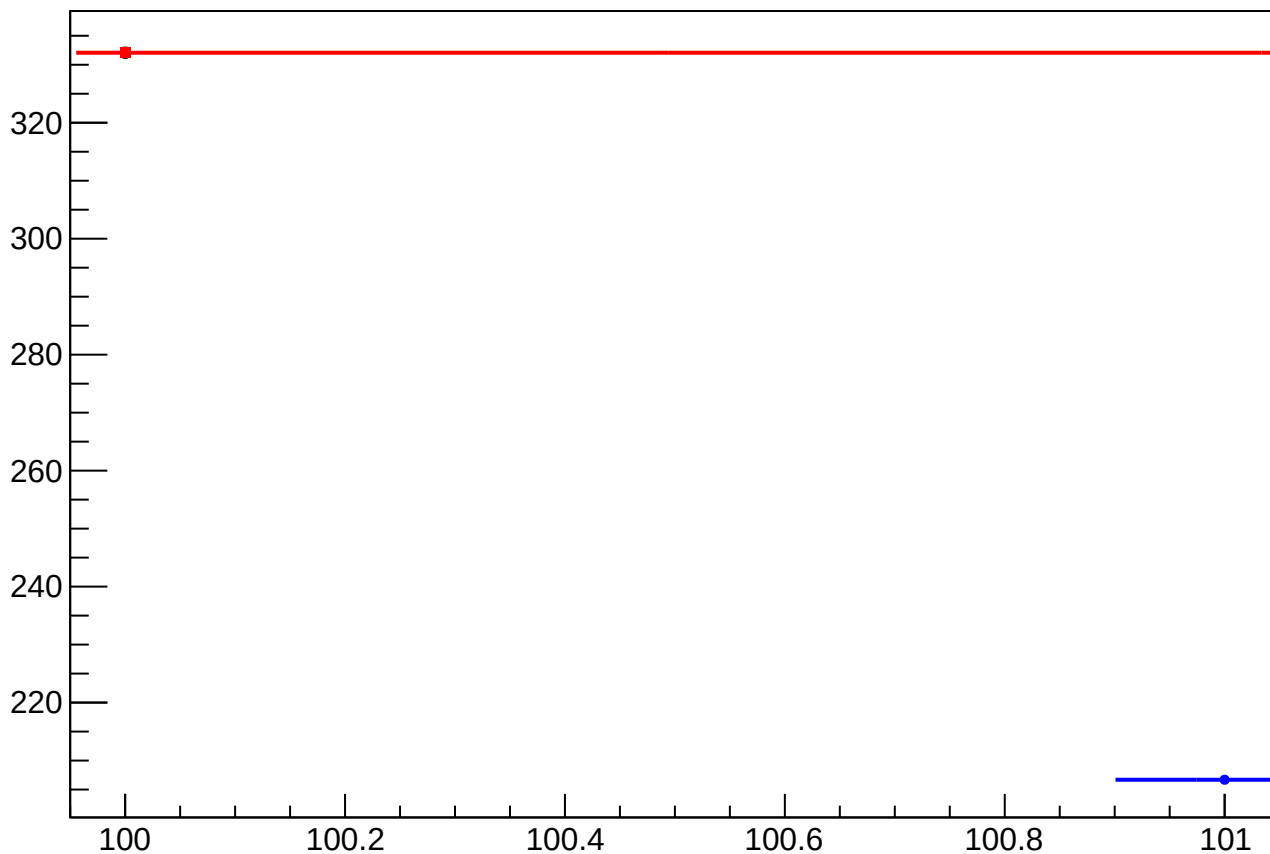
Right: 393.785 $\pm$ 251.584  $\chi^2/\text{NDF}$ : 0.0/1

In: 386.152 $\pm$ 256.981  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 393.785 $\pm$ 251.584  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 206.692 $\pm$ 0.182  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 332.073 $\pm$ 0.873  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

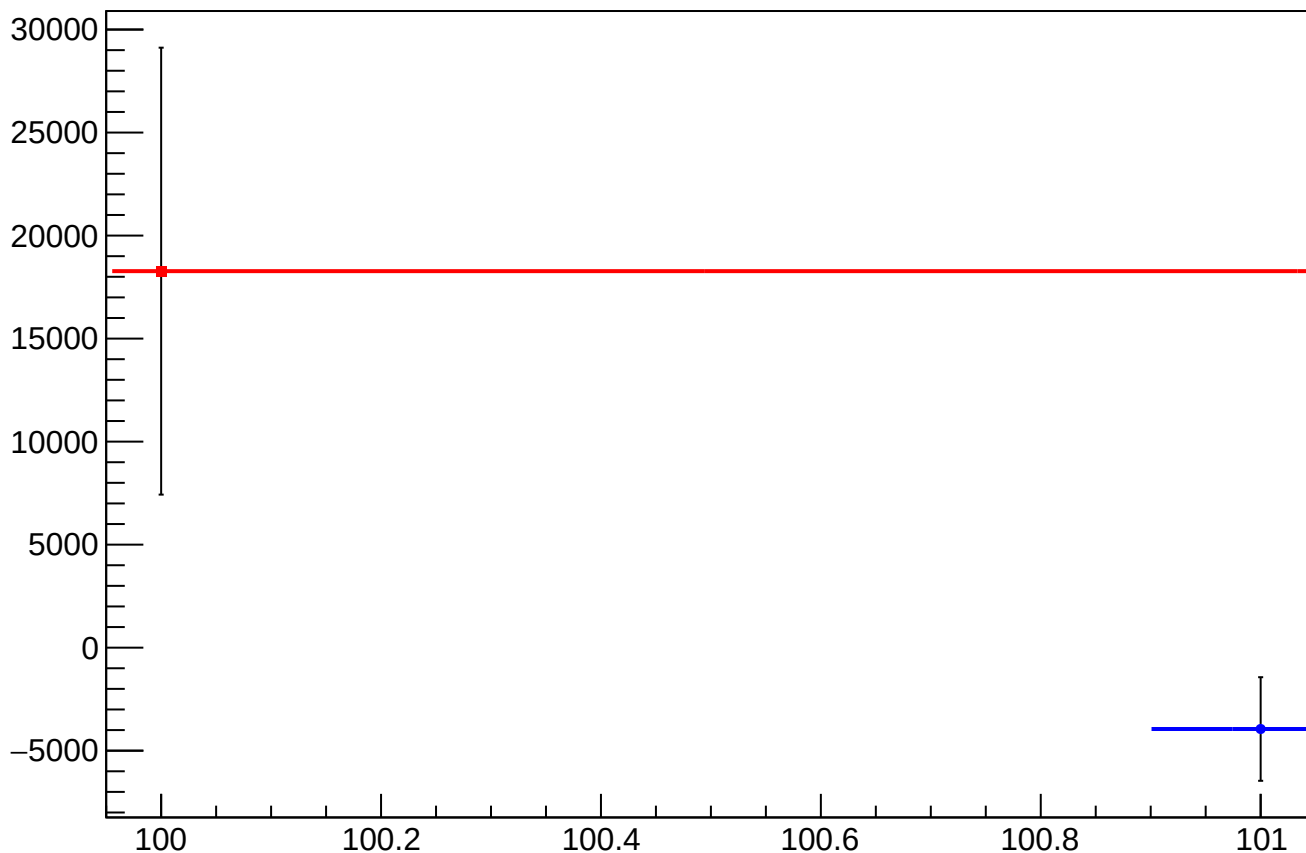
Right: 211.903 $\pm$ 0.178  $\chi^2$ /NDF: 19788.2/1

In: 206.692 $\pm$ 0.182  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 211.903 $\pm$ 0.178  $\chi^2$ /NDF: 19788.2/1

asym\_sam\_26\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -3947.635+/-2513.948  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18273.932+/-10846.009  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

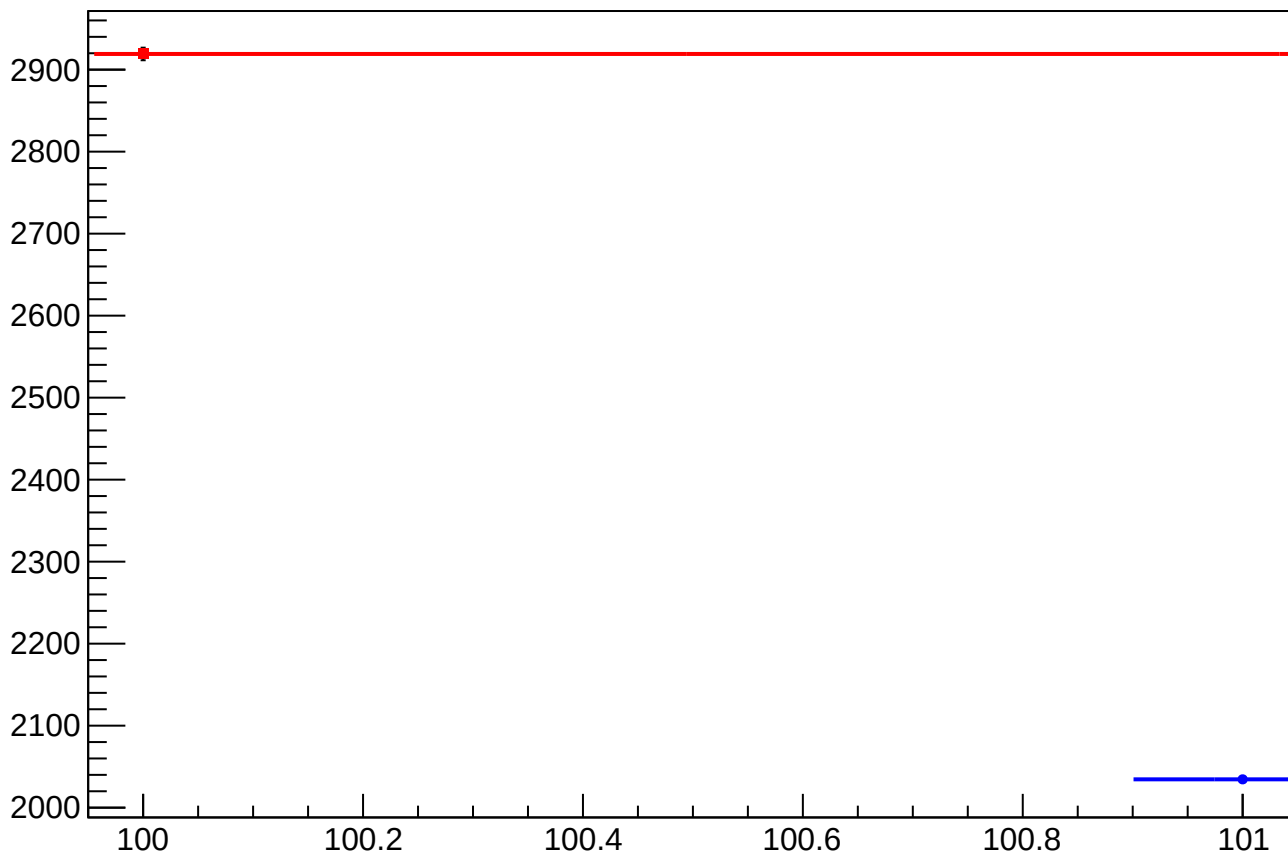
Right: -2814.661+/-2449.022  $\chi^2$ /NDF: 4.0/1

In: -3947.635+/-2513.948  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2814.661+/-2449.022  $\chi^2$ /NDF: 4.0/1

asym\_sam\_26\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 2034.538 $\pm$ 1.778  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2919.124 $\pm$ 7.669  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

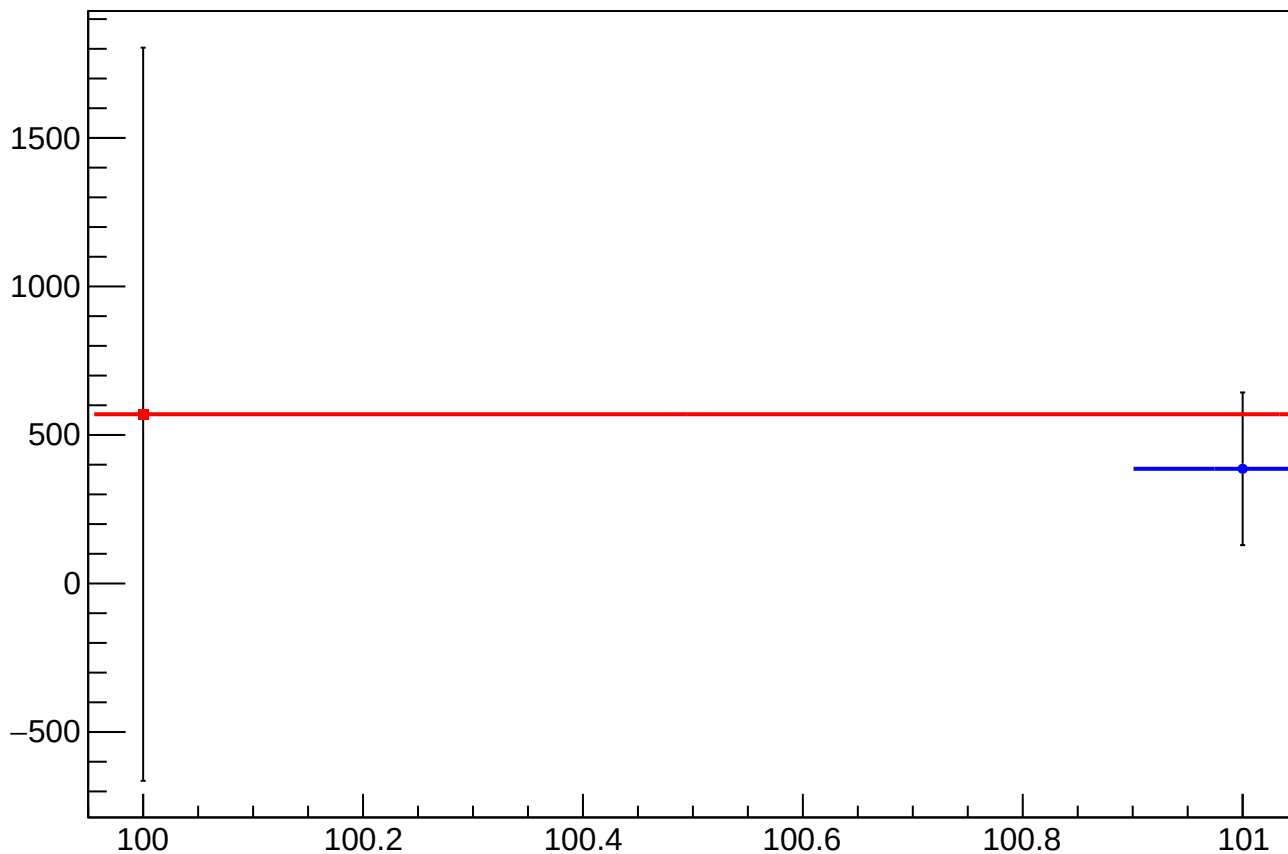
Right: 2079.639 $\pm$ 1.732  $\chi^2$ /NDF: 12625.3/1

In: 2034.538 $\pm$ 1.778  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2079.639 $\pm$ 1.732  $\chi^2$ /NDF: 12625.3/1

cor\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 386.136+/-256.981  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 569.821+/-1234.027  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

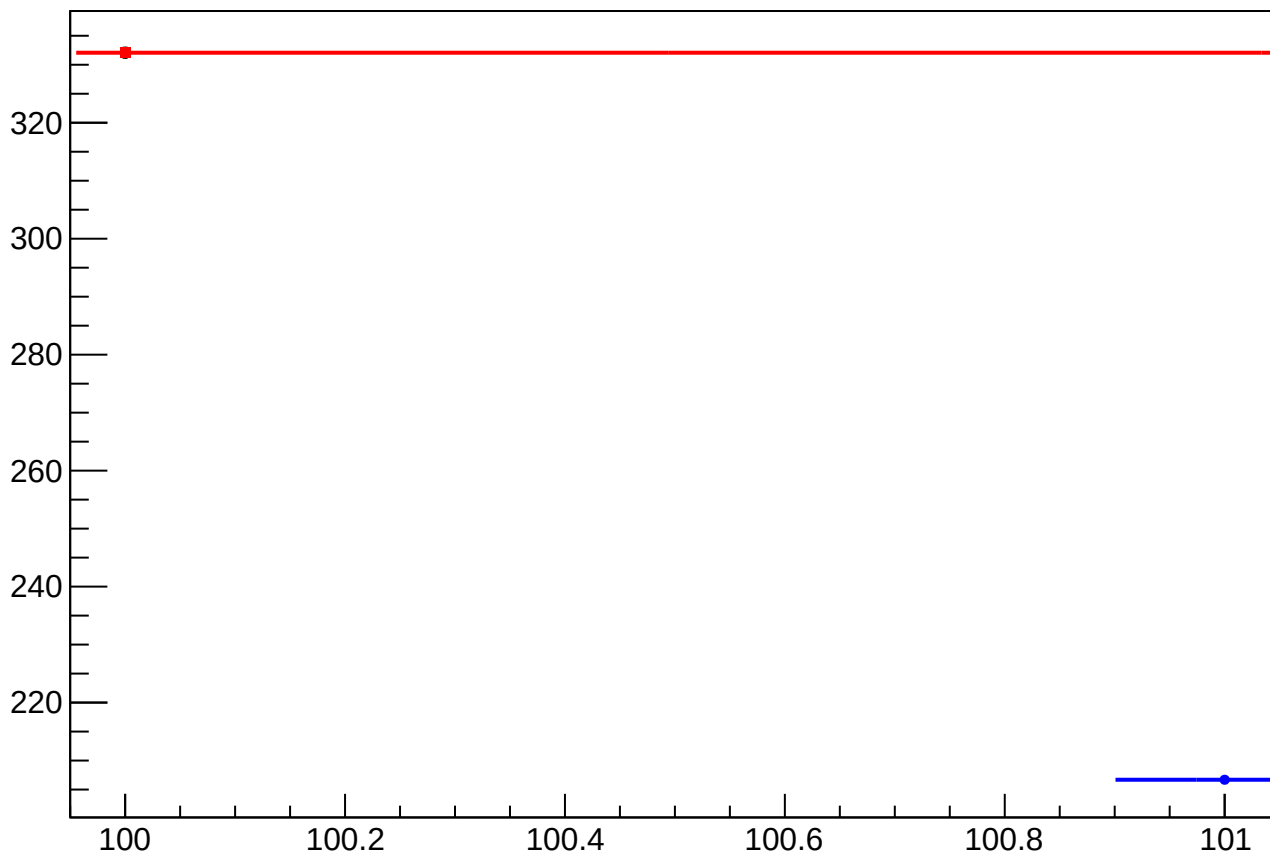
Right: 393.771+/-251.584  $\chi^2/\text{NDF}$ : 0.0/1

In: 386.136+/-256.981  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 393.771+/-251.584  $\chi^2/\text{NDF}$ : 0.0/1

cor\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 206.692 $\pm$ 0.182  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 332.073 $\pm$ 0.873  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 211.903 $\pm$ 0.178  $\chi^2$ /NDF: 19788.2/1

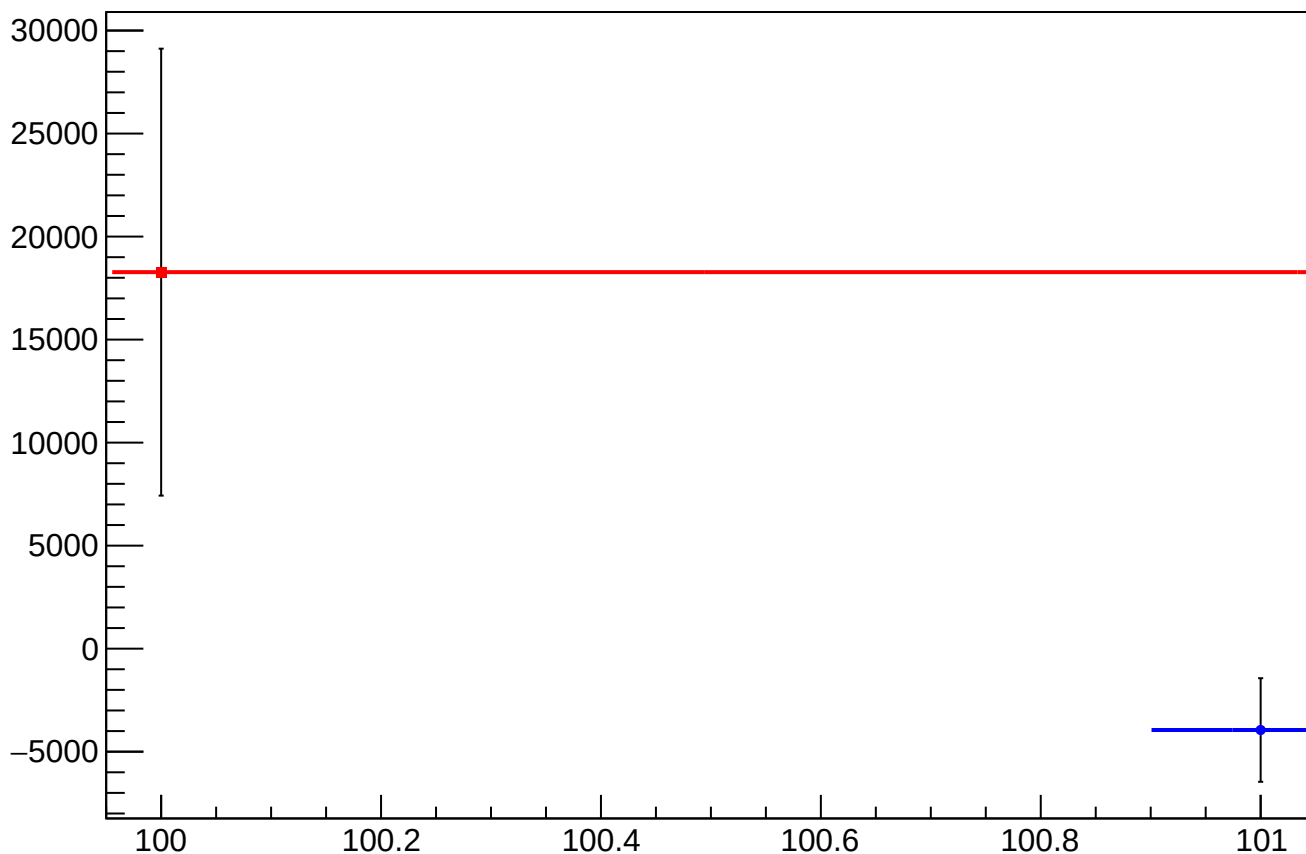
In: 206.692 $\pm$ 0.182  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 211.903 $\pm$ 0.178  $\chi^2$ /NDF: 19788.2/1



asym\_sam\_26\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3947.590+/-2513.952  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18273.925+/-10846.018  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

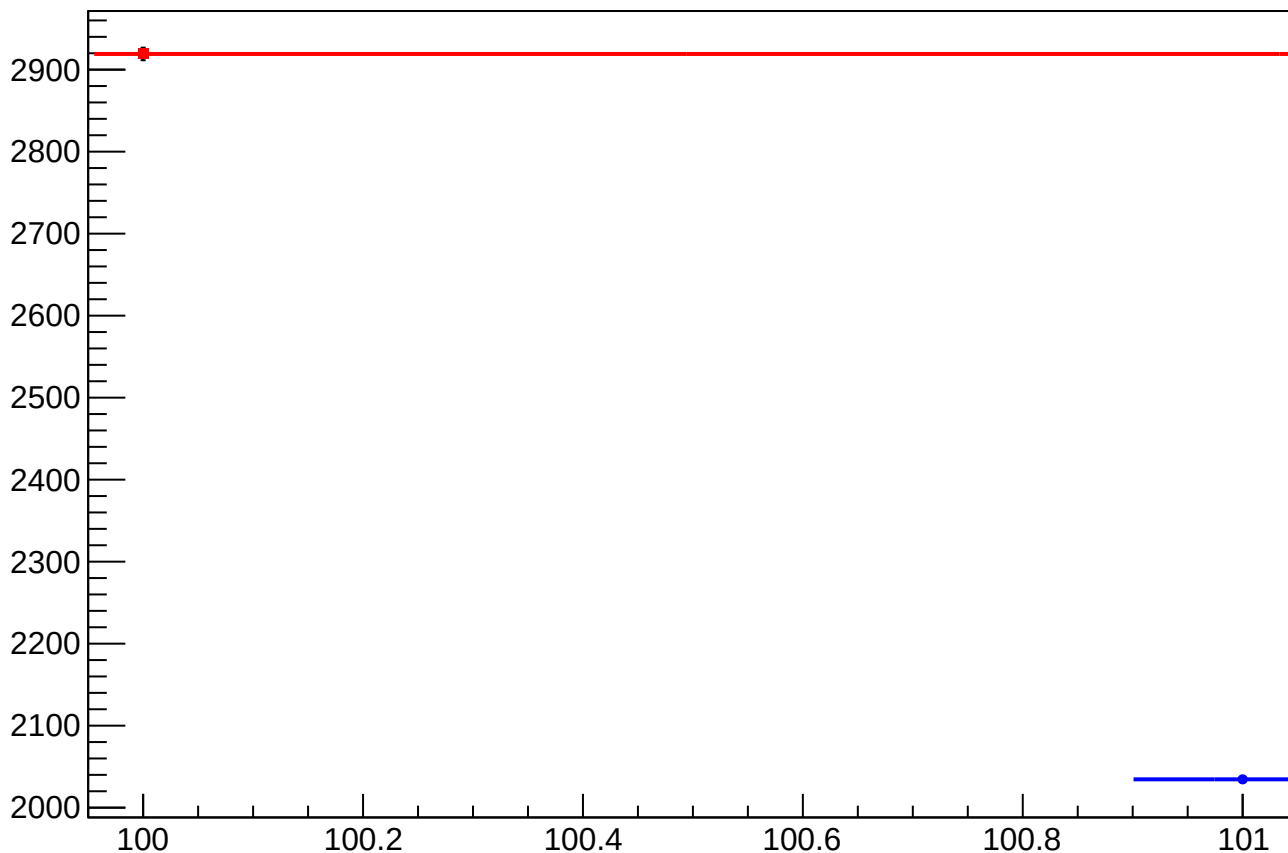
Right: -2814.617+/-2449.026  $\chi^2/\text{NDF}$ : 4.0/1

In: -3947.590+/-2513.952  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2814.617+/-2449.026  $\chi^2/\text{NDF}$ : 4.0/1

asym\_sam\_26\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 2034.541 $\pm$ 1.778  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2919.126 $\pm$ 7.669  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

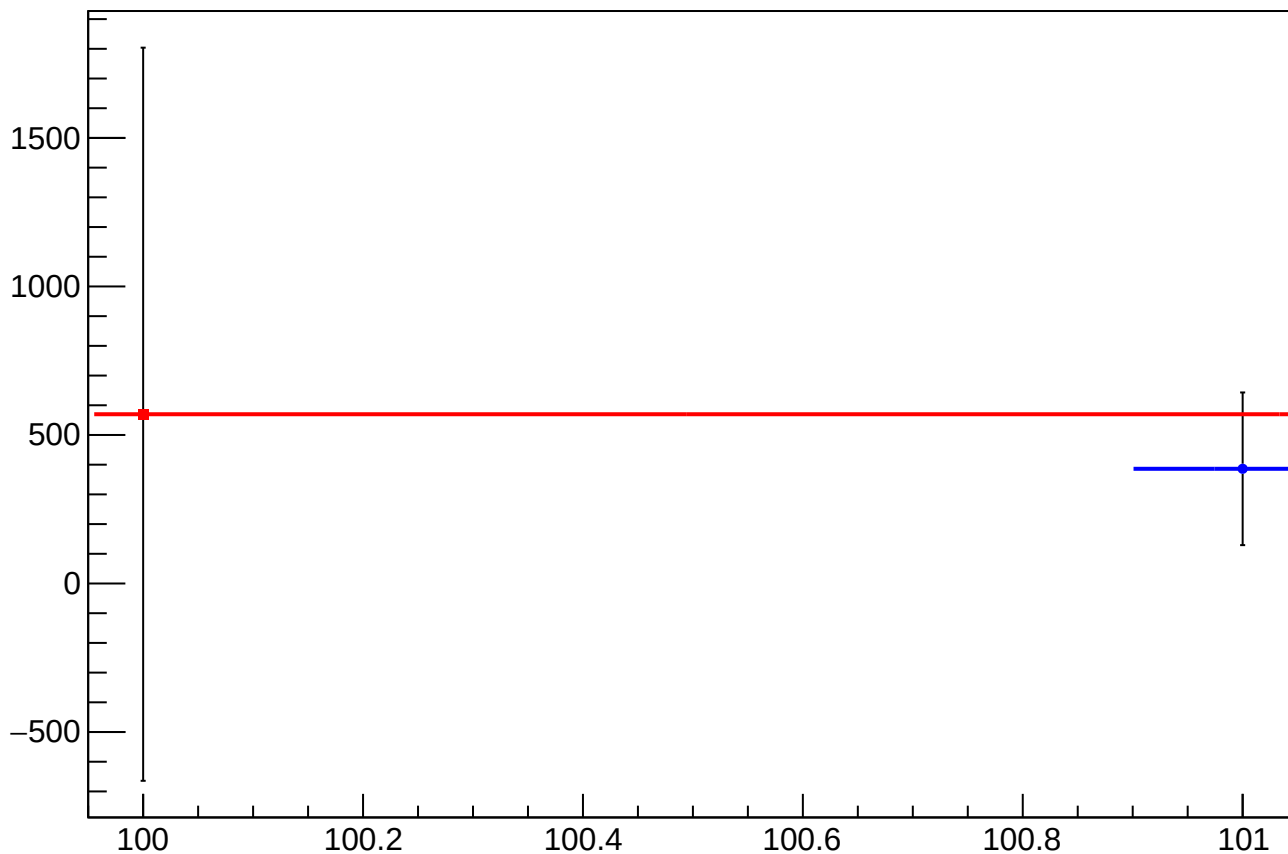
Right: 2079.642 $\pm$ 1.732  $\chi^2$ /NDF: 12625.3/1

In: 2034.541 $\pm$ 1.778  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 2079.642 $\pm$ 1.732  $\chi^2$ /NDF: 12625.3/1

eigen\_cor\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 386.136+/-256.981  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 569.821+/-1234.027  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

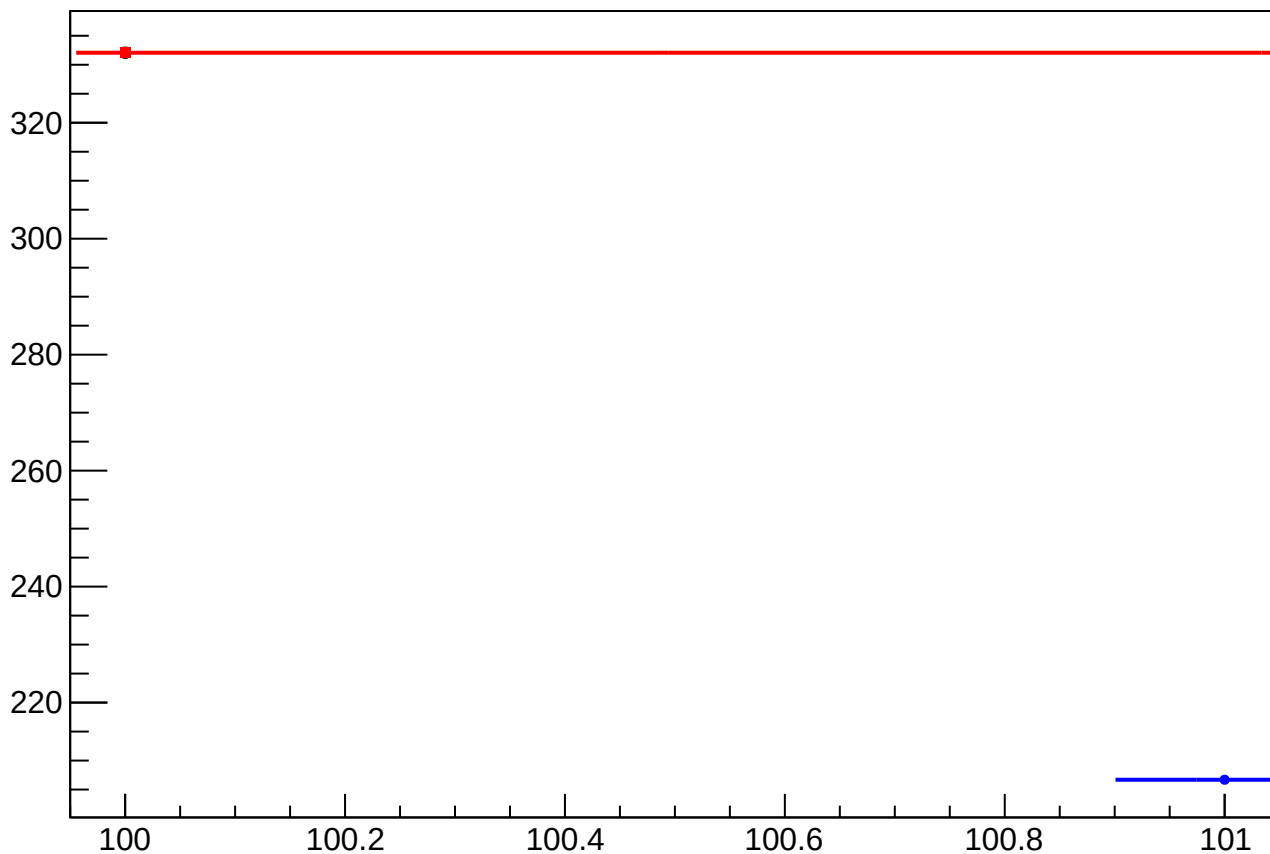
Right: 393.771+/-251.584  $\chi^2$ /NDF: 0.0/1

In: 386.136+/-256.981  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 393.771+/-251.584  $\chi^2$ /NDF: 0.0/1

eigen\_cor\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 206.692 $\pm$ 0.182  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 332.073 $\pm$ 0.873  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

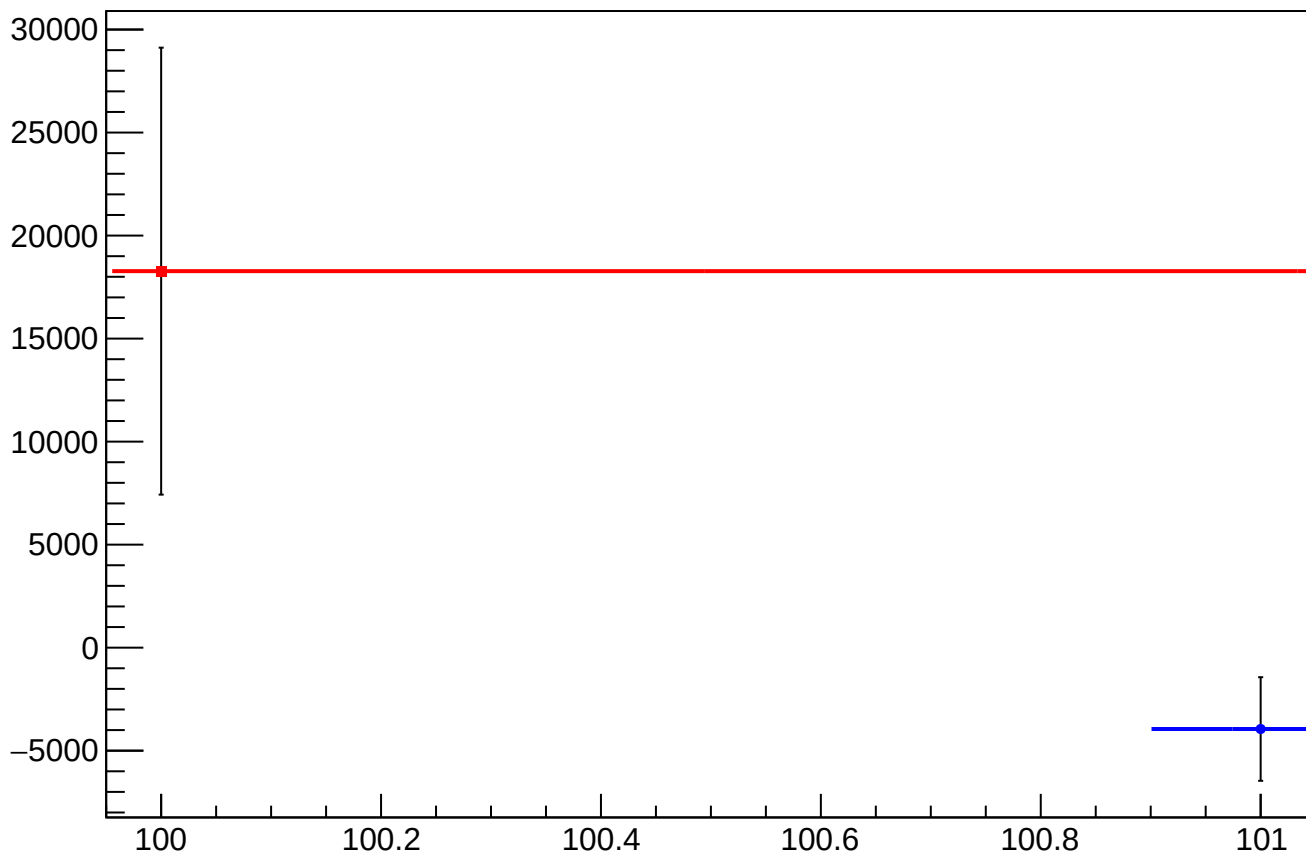
Right: 211.903 $\pm$ 0.178  $\chi^2$ /NDF: 19788.2/1

In: 206.692 $\pm$ 0.182  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 211.903 $\pm$ 0.178  $\chi^2$ /NDF: 19788.2/1

asym\_sam\_26\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3947.590+/-2513.952  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 18273.925+/-10846.018  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

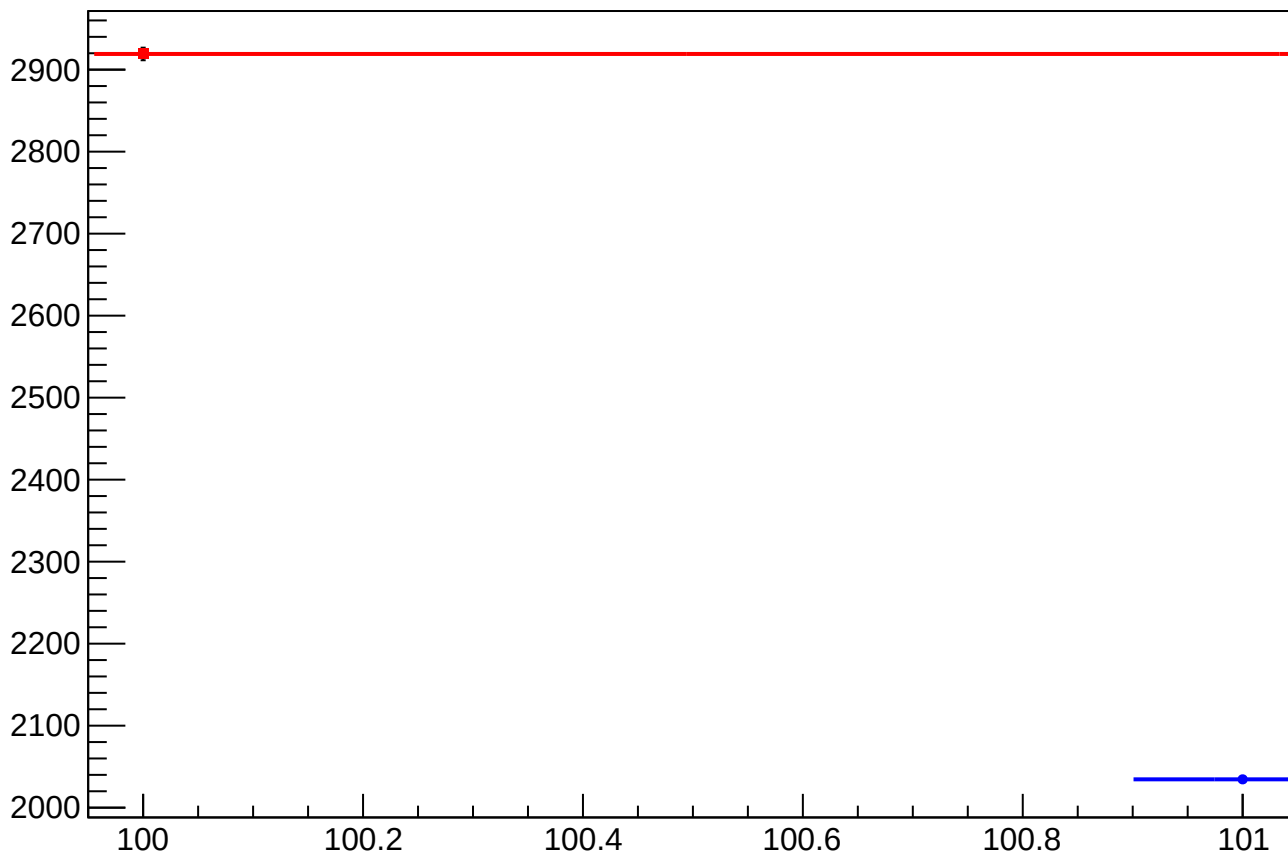
Right: -2814.617+/-2449.026  $\chi^2$ /NDF: 4.0/1

In: -3947.590+/-2513.952  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -2814.617+/-2449.026  $\chi^2$ /NDF: 4.0/1

asym\_sam\_26\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 2034.541 $\pm$ 1.778  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2919.126 $\pm$ 7.669  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

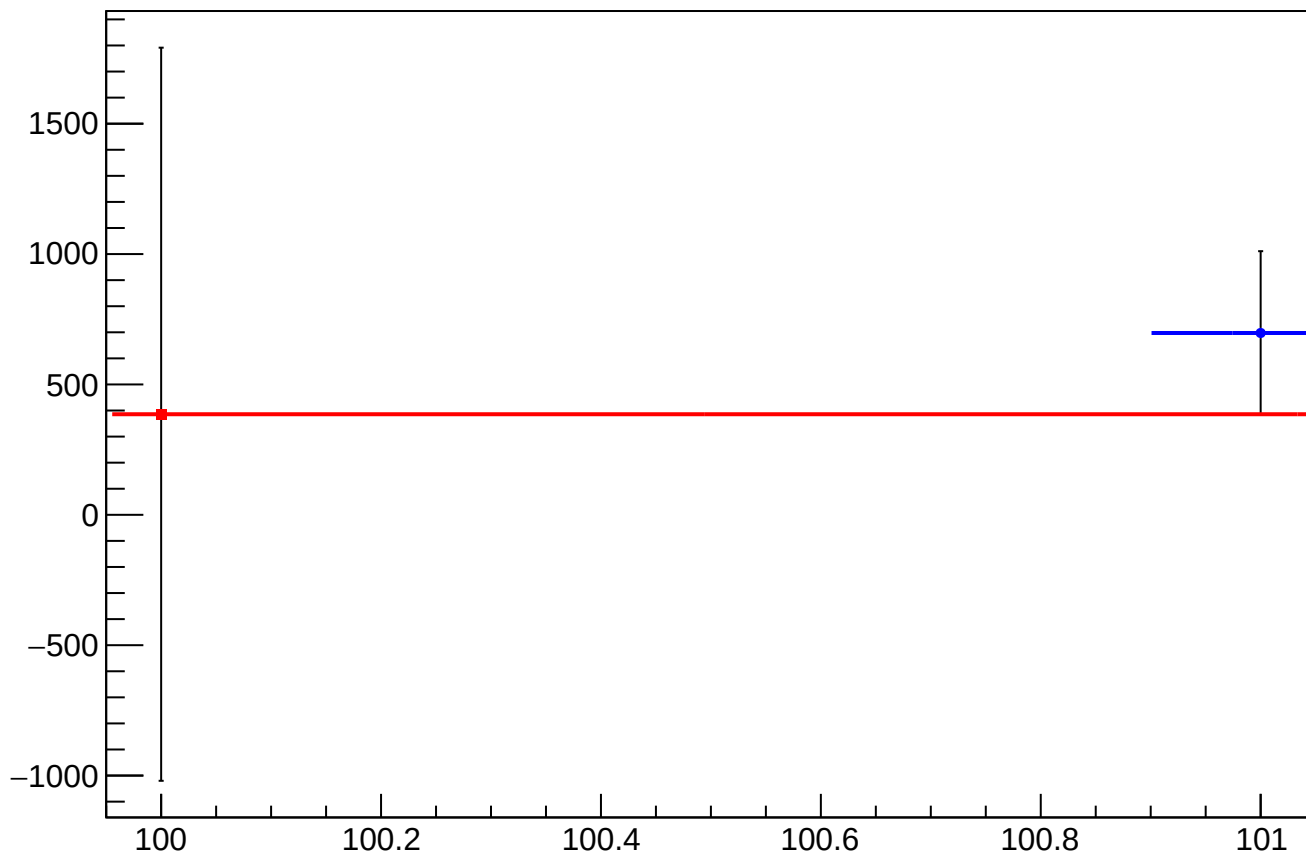
Right: 2079.642 $\pm$ 1.732  $\chi^2$ /NDF: 12625.3/1

In: 2034.541 $\pm$ 1.778  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2079.642 $\pm$ 1.732  $\chi^2$ /NDF: 12625.3/1

dit\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 697.339 $\pm$ 313.755  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 385.751 $\pm$ 1405.816  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

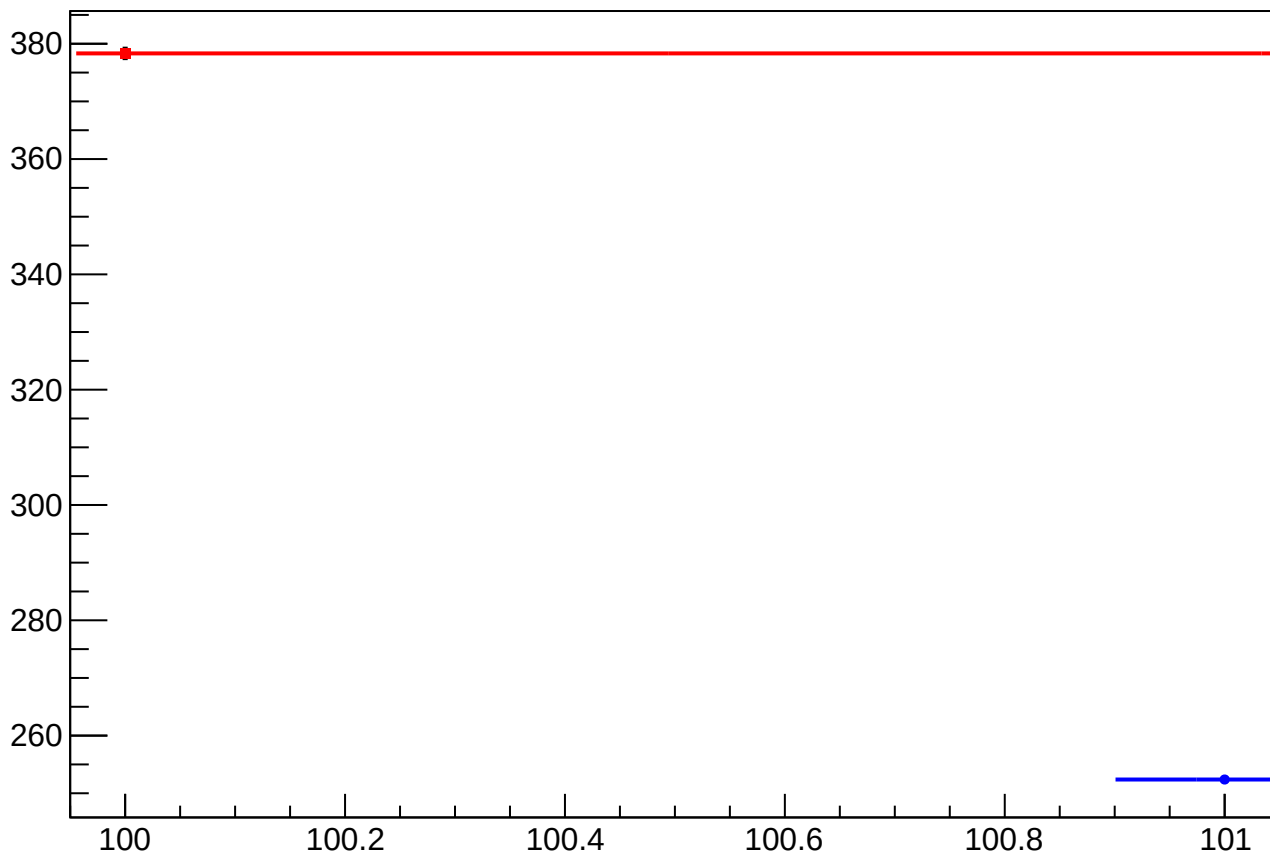
Right: 682.555 $\pm$ 306.221  $\chi^2$ /NDF: 0.0/1

In: 697.339 $\pm$ 313.755  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 682.555 $\pm$ 306.221  $\chi^2$ /NDF: 0.0/1

dit\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 252.383+/-0.222  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 378.325+/-0.994  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 258.359+/-0.217  $\chi^2/\text{NDF}$ : 15289.9/1

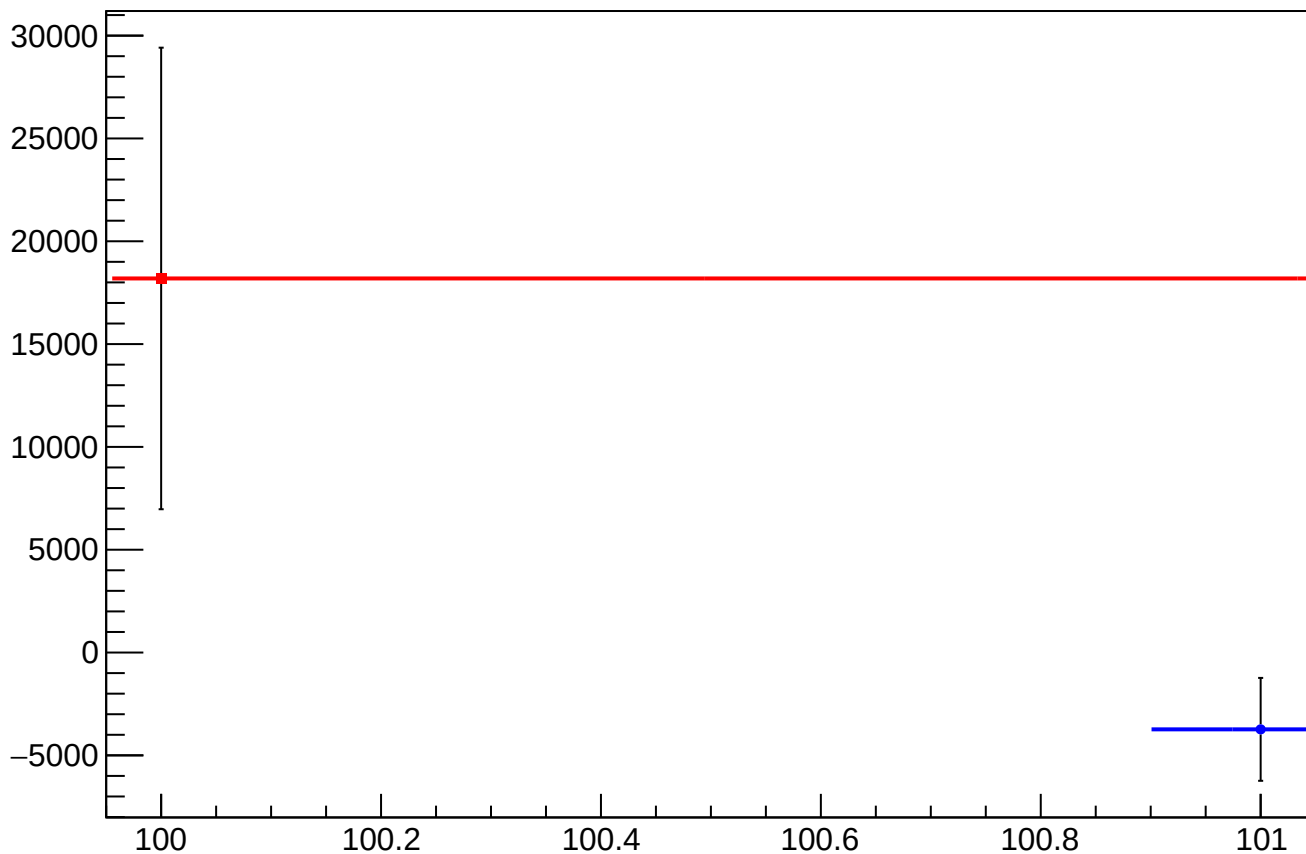
In: 252.383+/-0.222  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 258.359+/-0.217  $\chi^2/\text{NDF}$ : 15289.9/1



asym\_sam\_26\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3735.588+/-2501.718  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18191.670+/-11222.920  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

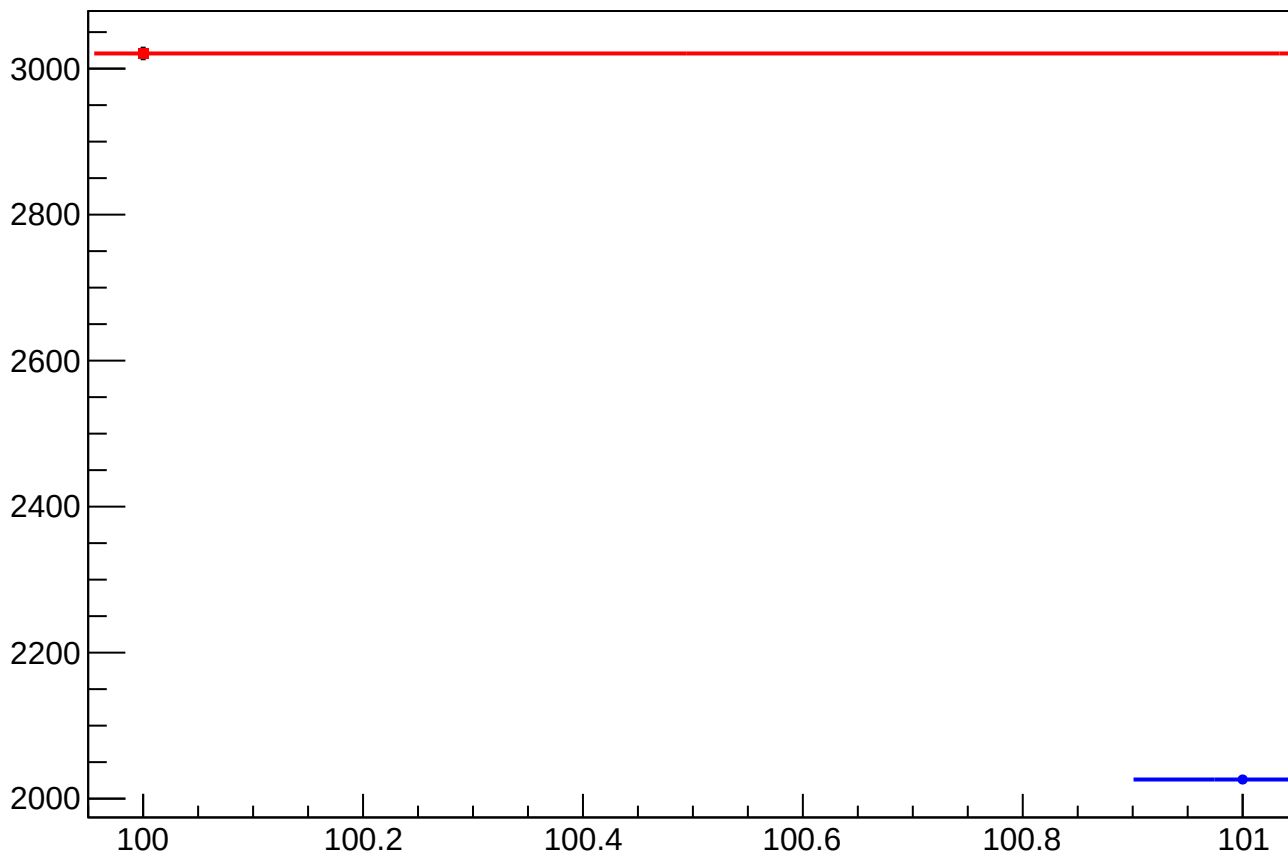
Right: -2697.610+/-2441.788  $\chi^2/\text{NDF}$ : 3.6/1

In: -3735.588+/-2501.718  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2697.610+/-2441.788  $\chi^2/\text{NDF}$ : 3.6/1

asym\_sam\_26\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2026.214 $\pm$ 1.769  $\chi^2/NDF$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Right Out: 3020.769 $\pm$ 7.936  $\chi^2/NDF$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

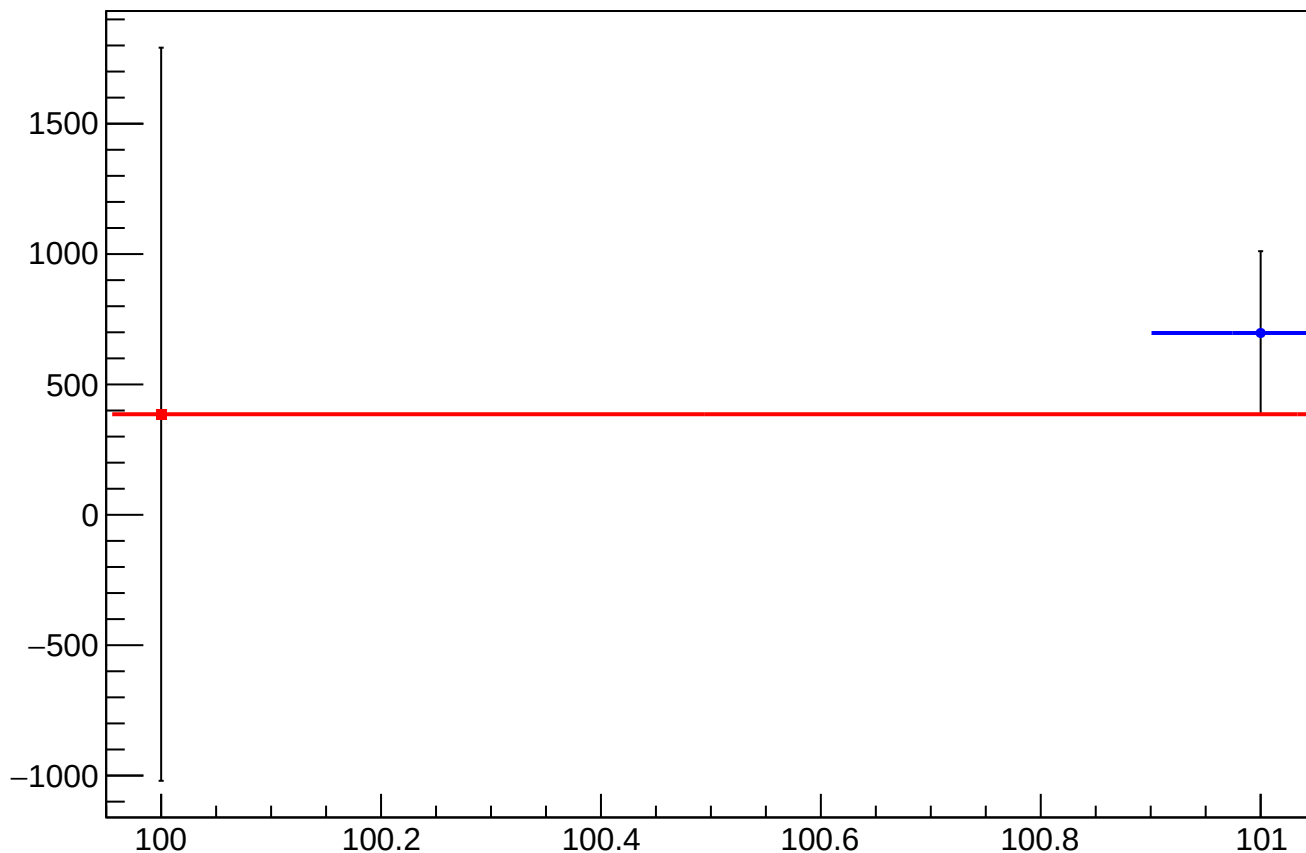
Right: 2073.293 $\pm$ 1.727  $\chi^2/NDF$ : 14962.9/1

In: 2026.214 $\pm$ 1.769  $\chi^2/NDF$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

All: 2073.293 $\pm$ 1.727  $\chi^2/NDF$ : 14962.9/1

eigen\_dit\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 697.338+/-313.755  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 385.759+/-1405.816  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

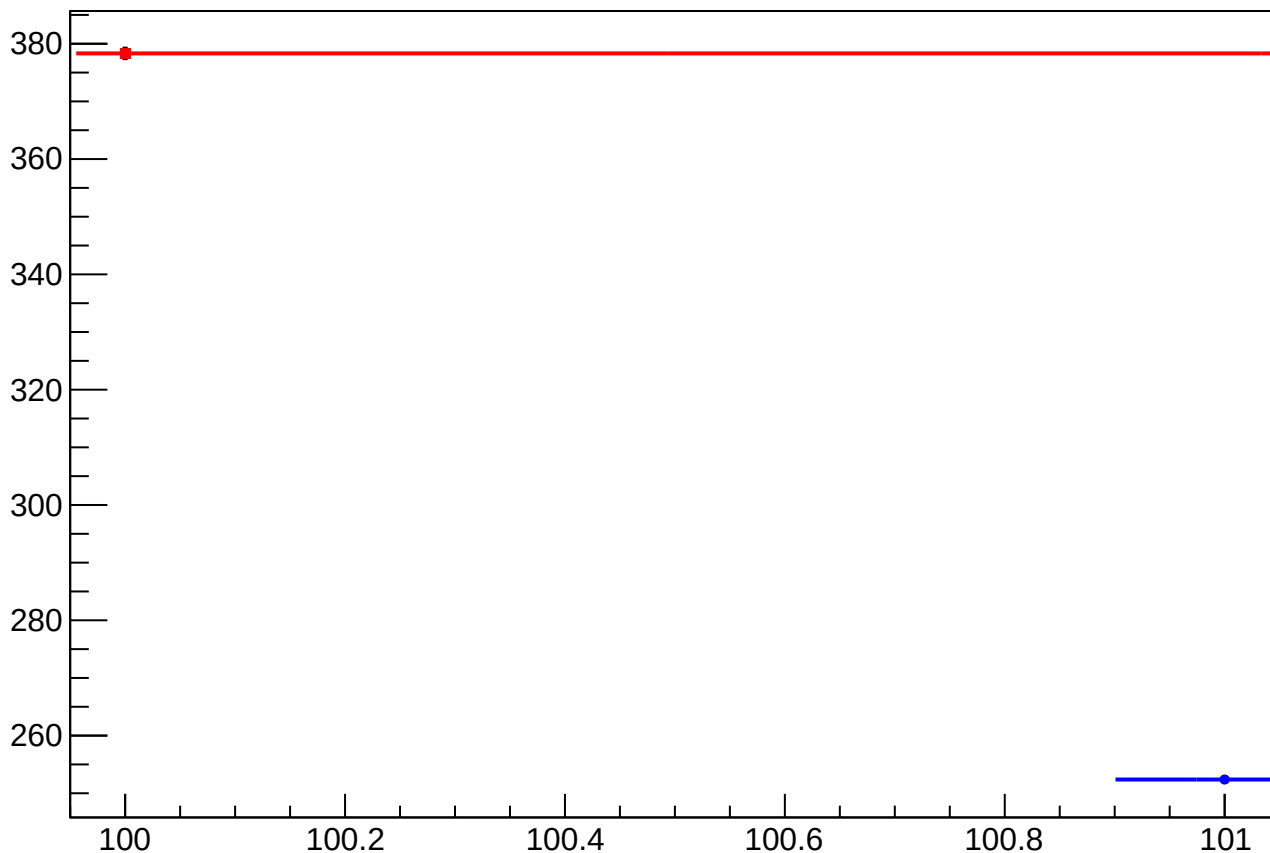
Right: 682.554+/-306.221  $\chi^2/\text{NDF}$ : 0.0/1

In: 697.338+/-313.755  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 682.554+/-306.221  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 252.384+/-0.222  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 378.326+/-0.994  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

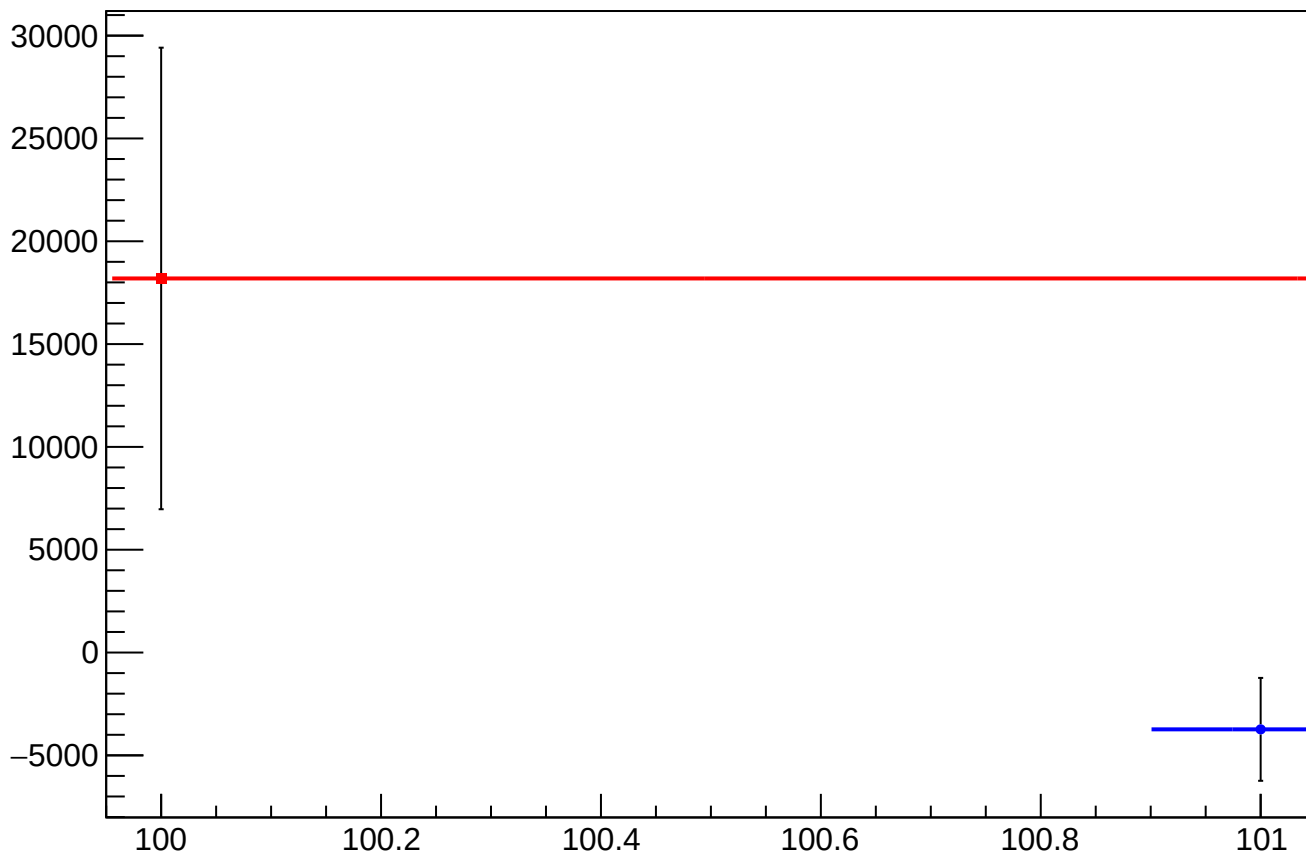
Right: 258.359+/-0.217  $\chi^2/\text{NDF}$ : 15289.9/1

In: 252.384+/-0.222  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 258.359+/-0.217  $\chi^2/\text{NDF}$ : 15289.9/1

asym\_sam\_26\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3735.590+/-2501.716  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 18191.679+/-11222.921  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

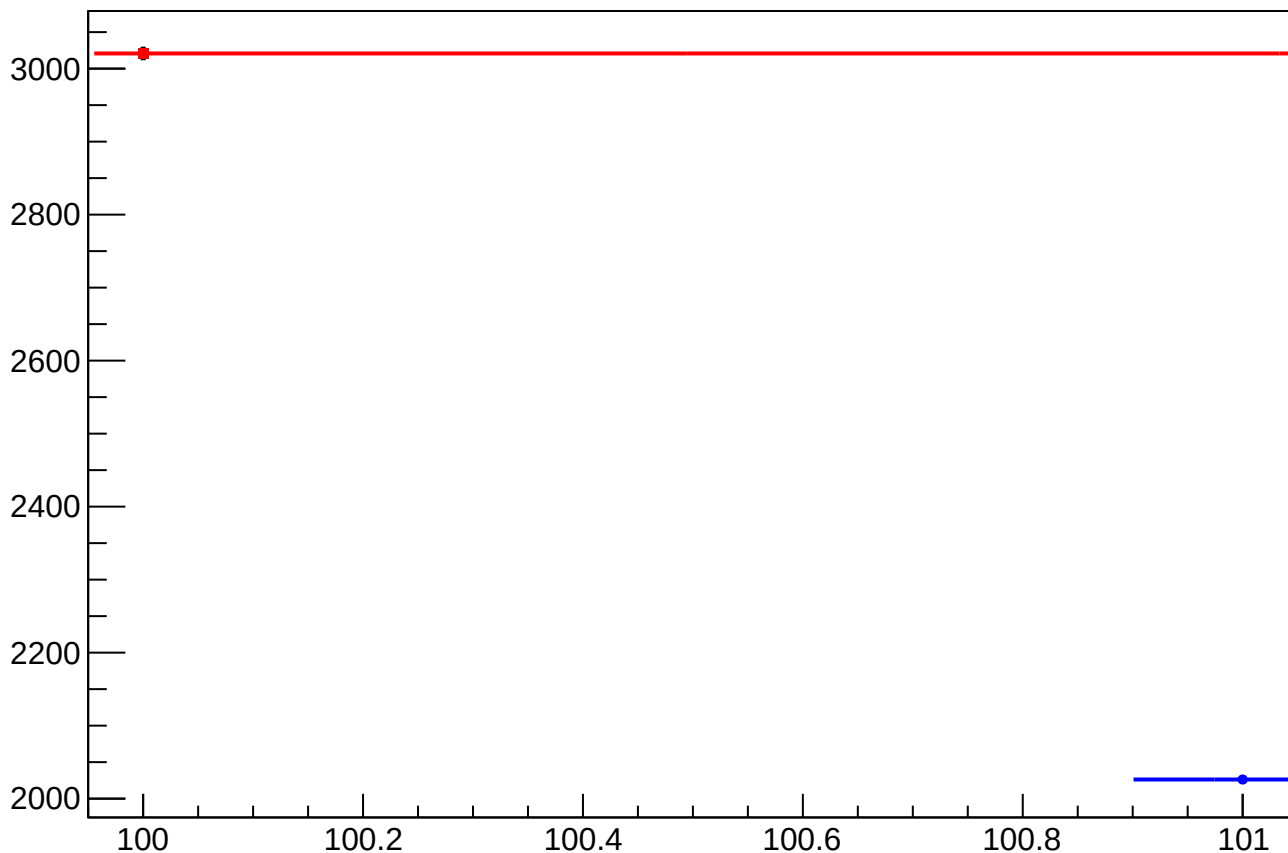
Right: -2697.612+/-2441.786  $\chi^2/\text{NDF}$ : 3.6/1

In: -3735.590+/-2501.716  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2697.612+/-2441.786  $\chi^2/\text{NDF}$ : 3.6/1

asym\_sam\_26\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2026.213+/-1.769  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3020.769+/-7.936  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

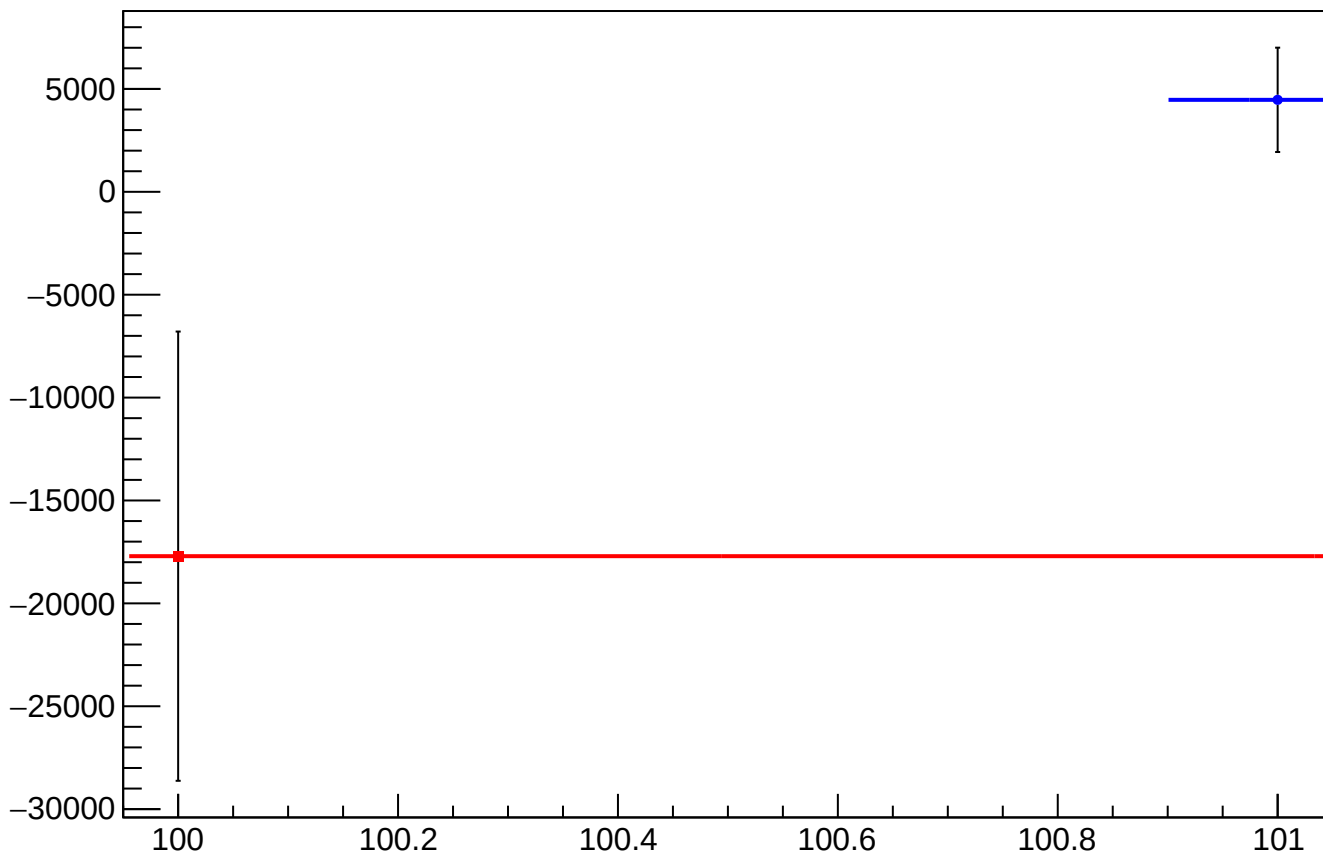
Right: 2073.292+/-1.727  $\chi^2/\text{NDF}$ : 14962.9/1

In: 2026.213+/-1.769  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2073.292+/-1.727  $\chi^2/\text{NDF}$ : 14962.9/1

asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 4469.798+/-2535.291  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17706.690+/-10916.066  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

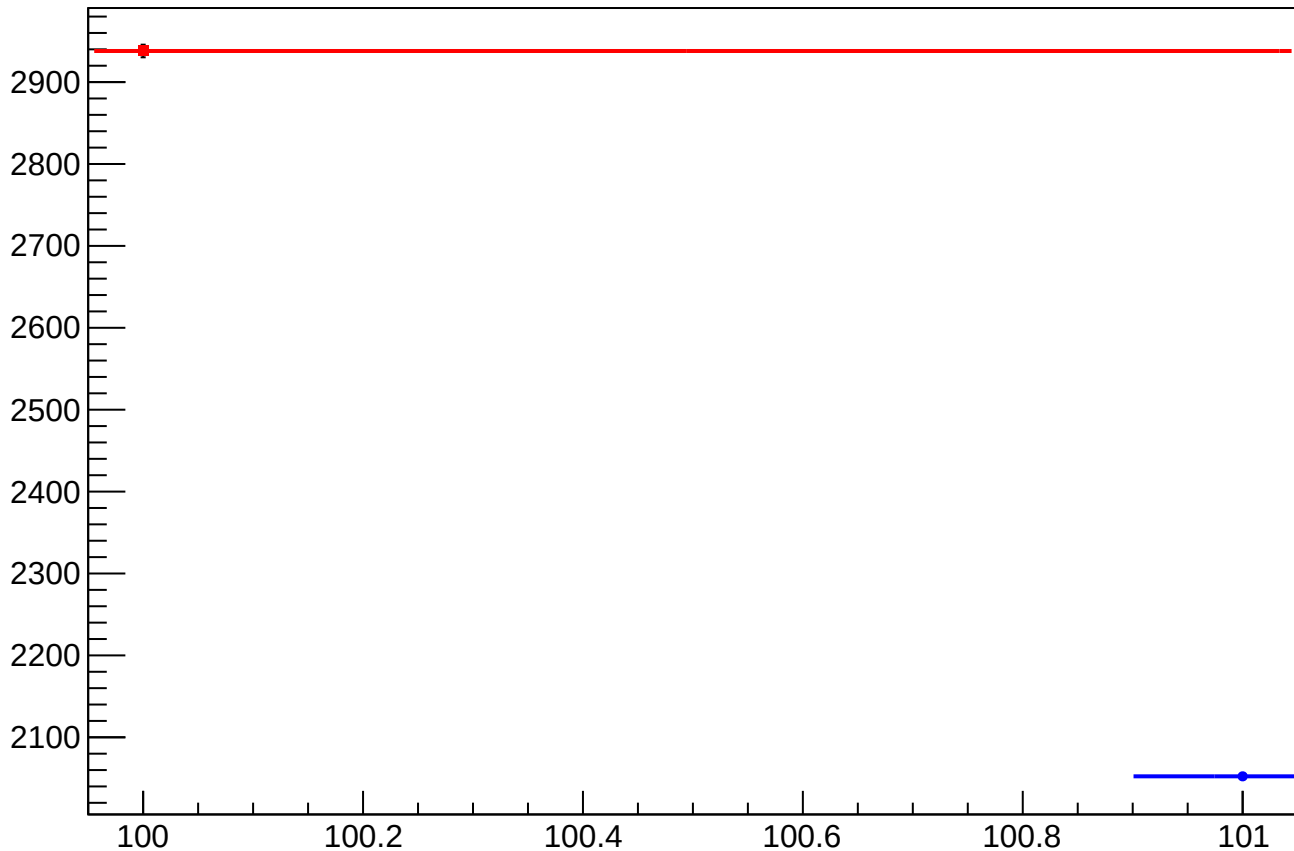
Right: 3334.789+/-2469.559  $\chi^2/\text{NDF}$ : 3.9/1

In: 4469.798+/-2535.291  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3334.789+/-2469.559  $\chi^2/\text{NDF}$ : 3.9/1

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 2052.343 $\pm$ 1.793  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2937.978 $\pm$ 7.719  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2097.671 $\pm$ 1.746  $\chi^2$ /NDF: 12490.8/1

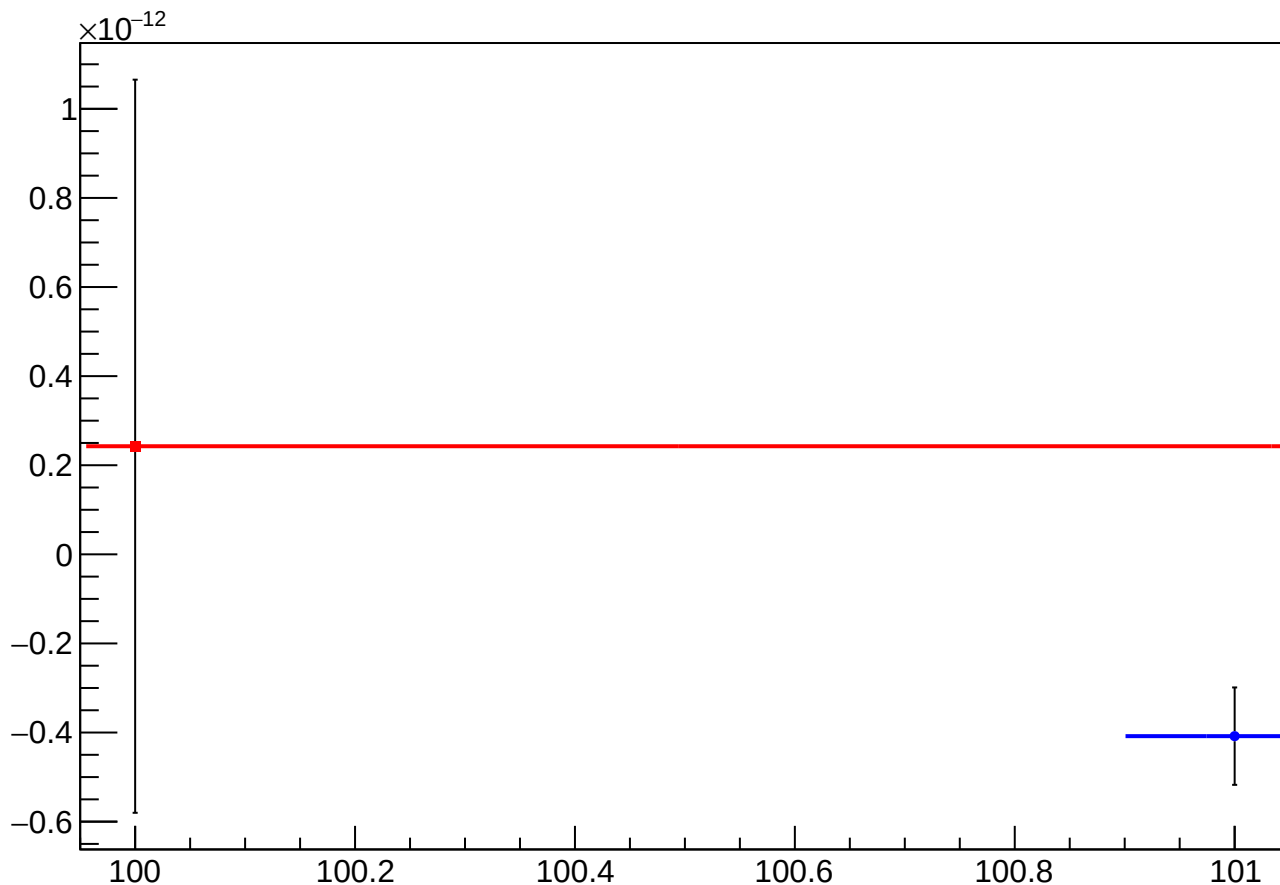
In: 2052.343 $\pm$ 1.793  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2097.671 $\pm$ 1.746  $\chi^2$ /NDF: 12490.8/1



asym\_sam\_26\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

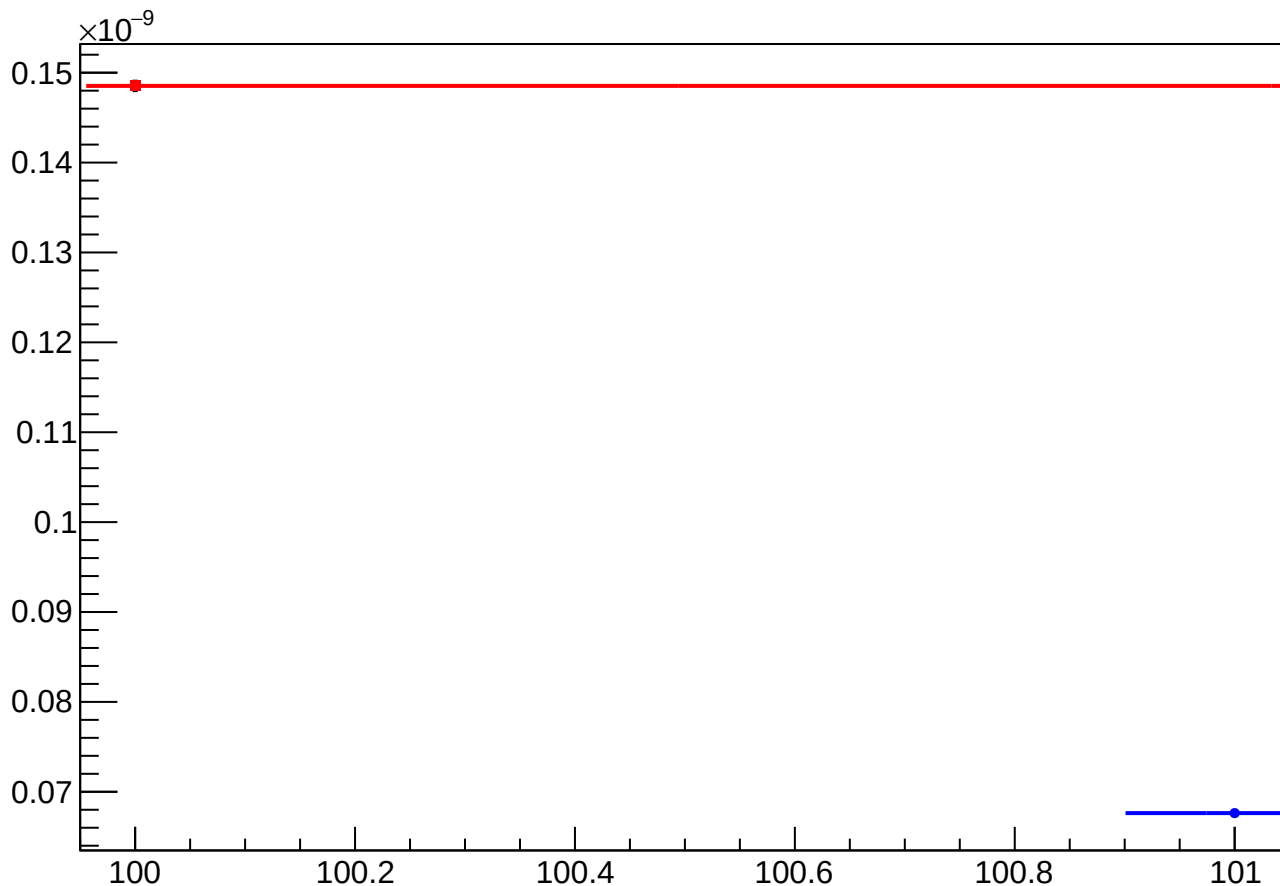
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_sam\_26\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

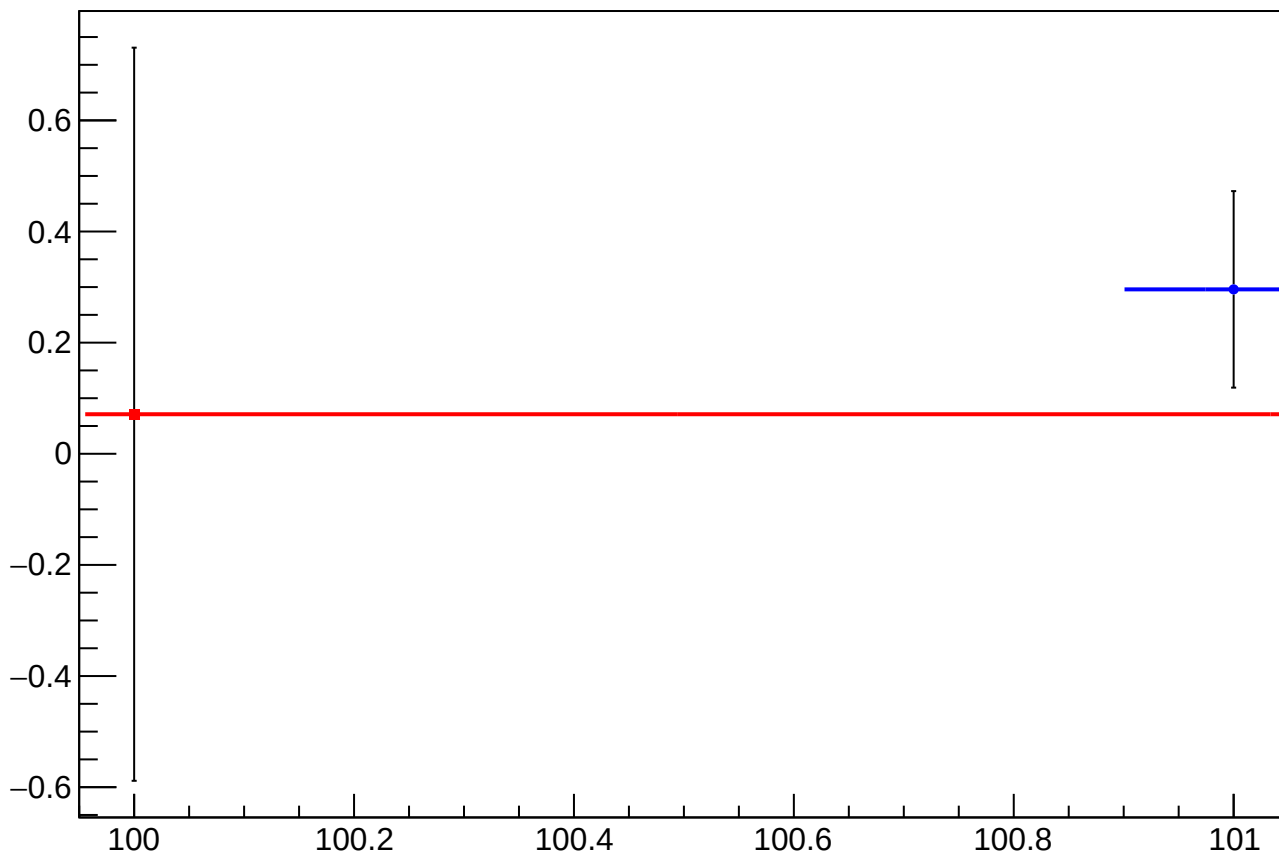
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 19000.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 19000.1/1

asym\_sam\_26\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.296 $\pm$ 0.177  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.071 $\pm$ 0.660  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

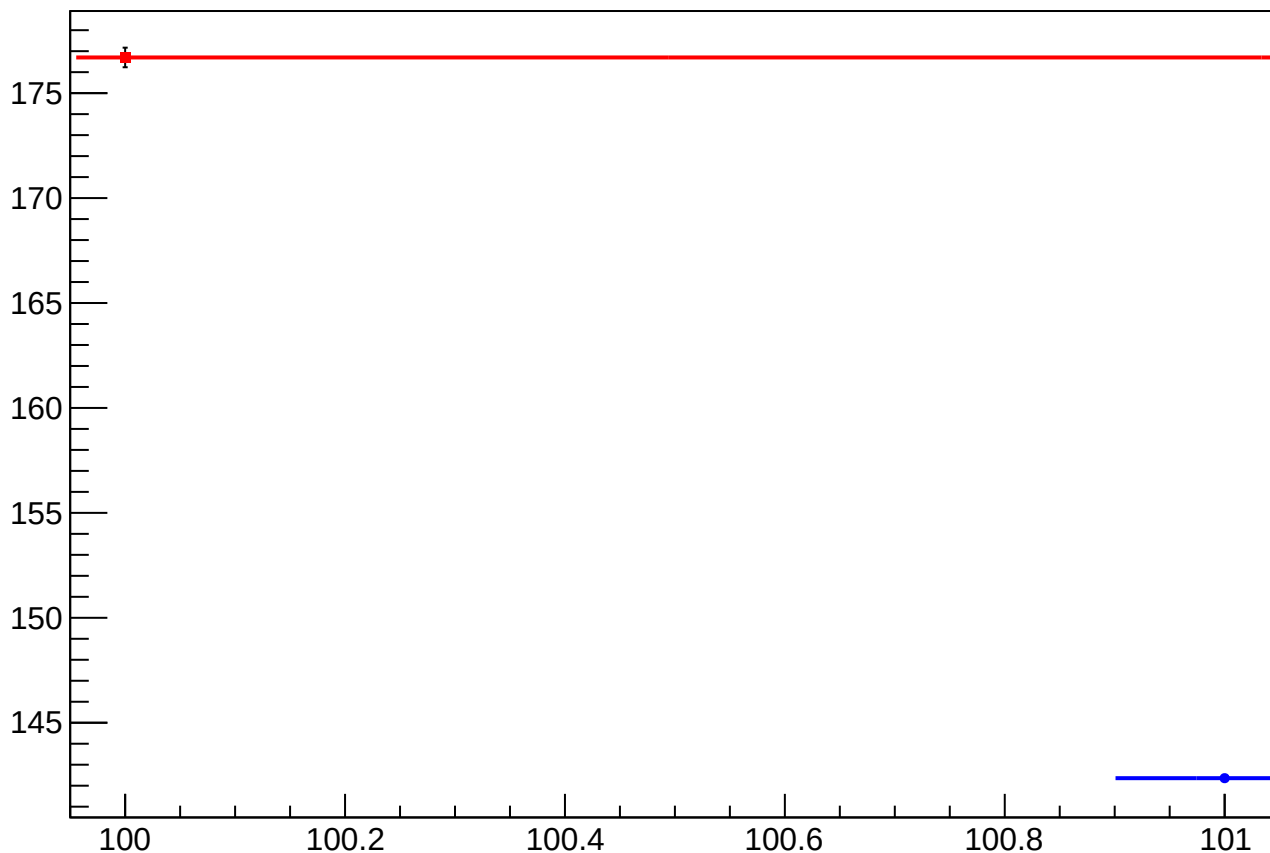
Right: 0.281 $\pm$ 0.171  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.296 $\pm$ 0.177  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.281 $\pm$ 0.171  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_26\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 142.358 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 176.700 $\pm$ 0.466  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

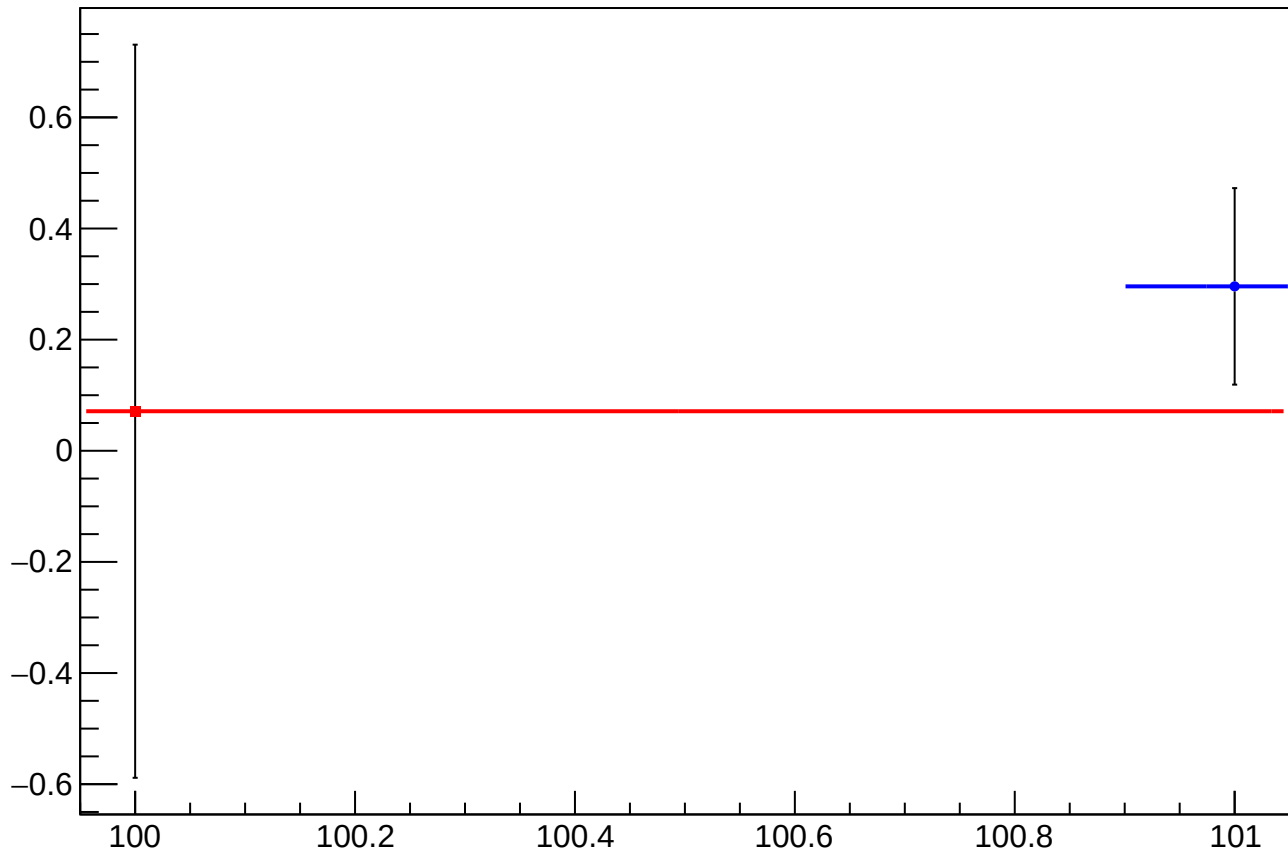
Right: 144.660 $\pm$ 0.121  $\chi^2$ /NDF: 5056.7/1

In: 142.358 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 144.660 $\pm$ 0.121  $\chi^2$ /NDF: 5056.7/1

asym\_sam\_26\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.296+/-0.177  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.071+/-0.660  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

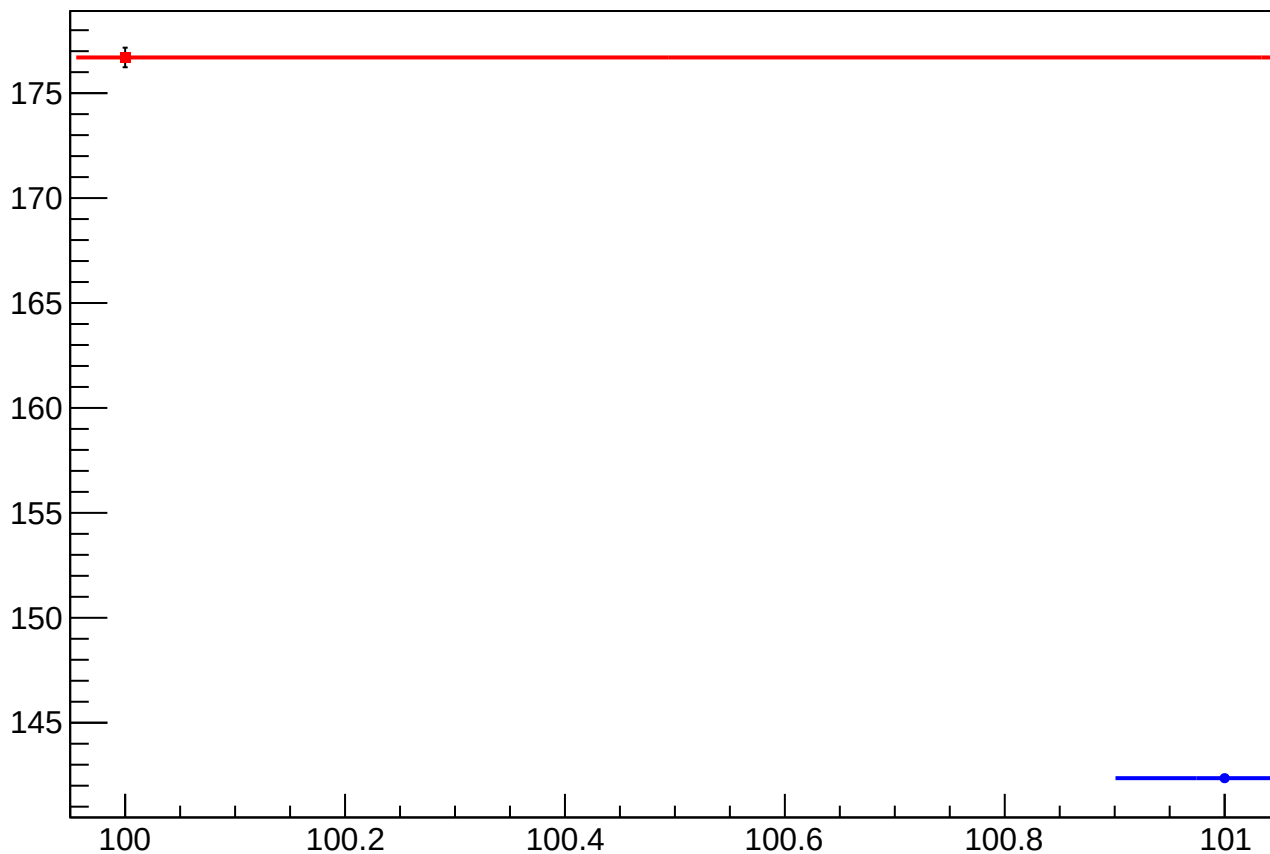
Right: 0.281+/-0.171  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.296+/-0.177  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.281+/-0.171  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_26\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 142.358 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 176.700 $\pm$ 0.466  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

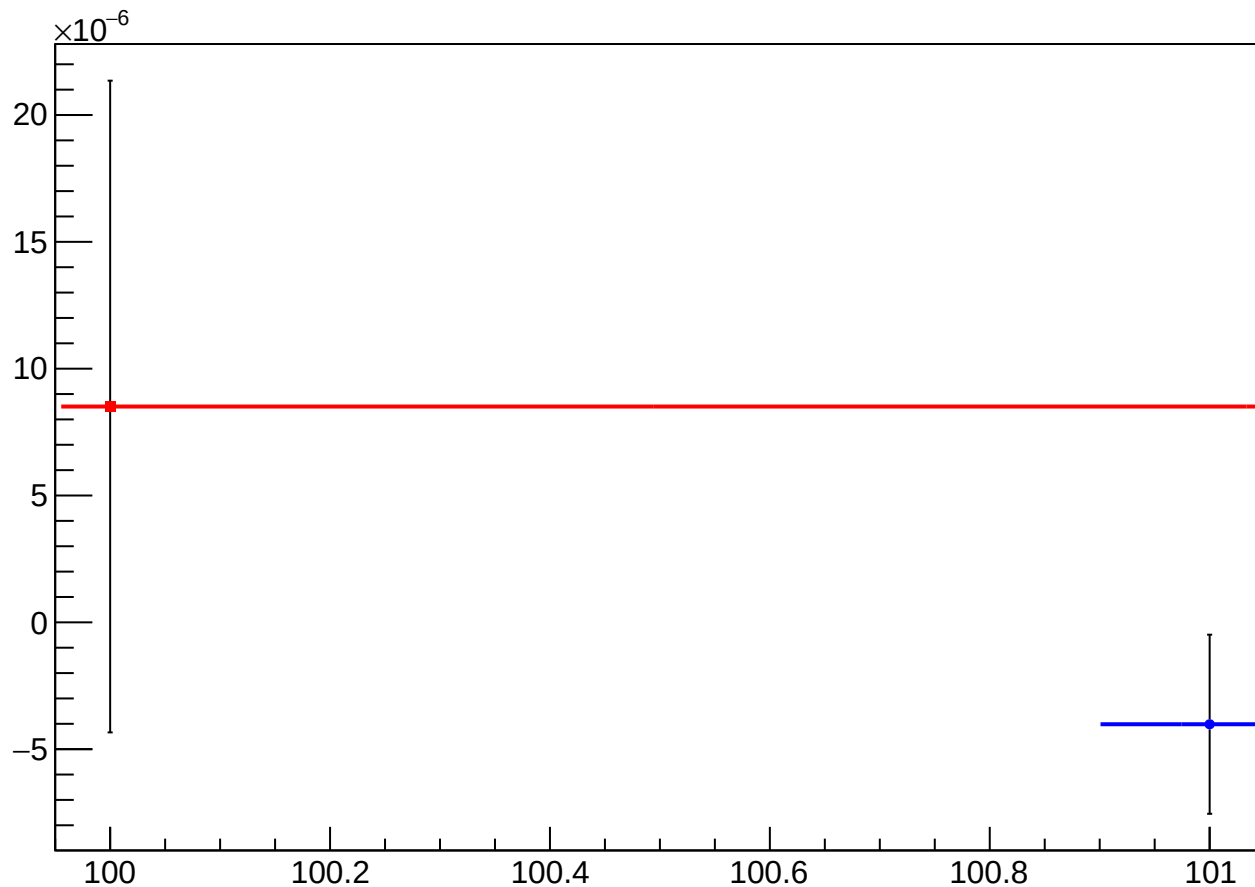
Right: 144.660 $\pm$ 0.121  $\chi^2$ /NDF: 5056.7/1

In: 142.358 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 144.660 $\pm$ 0.121  $\chi^2$ /NDF: 5056.7/1

asym\_sam\_26\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

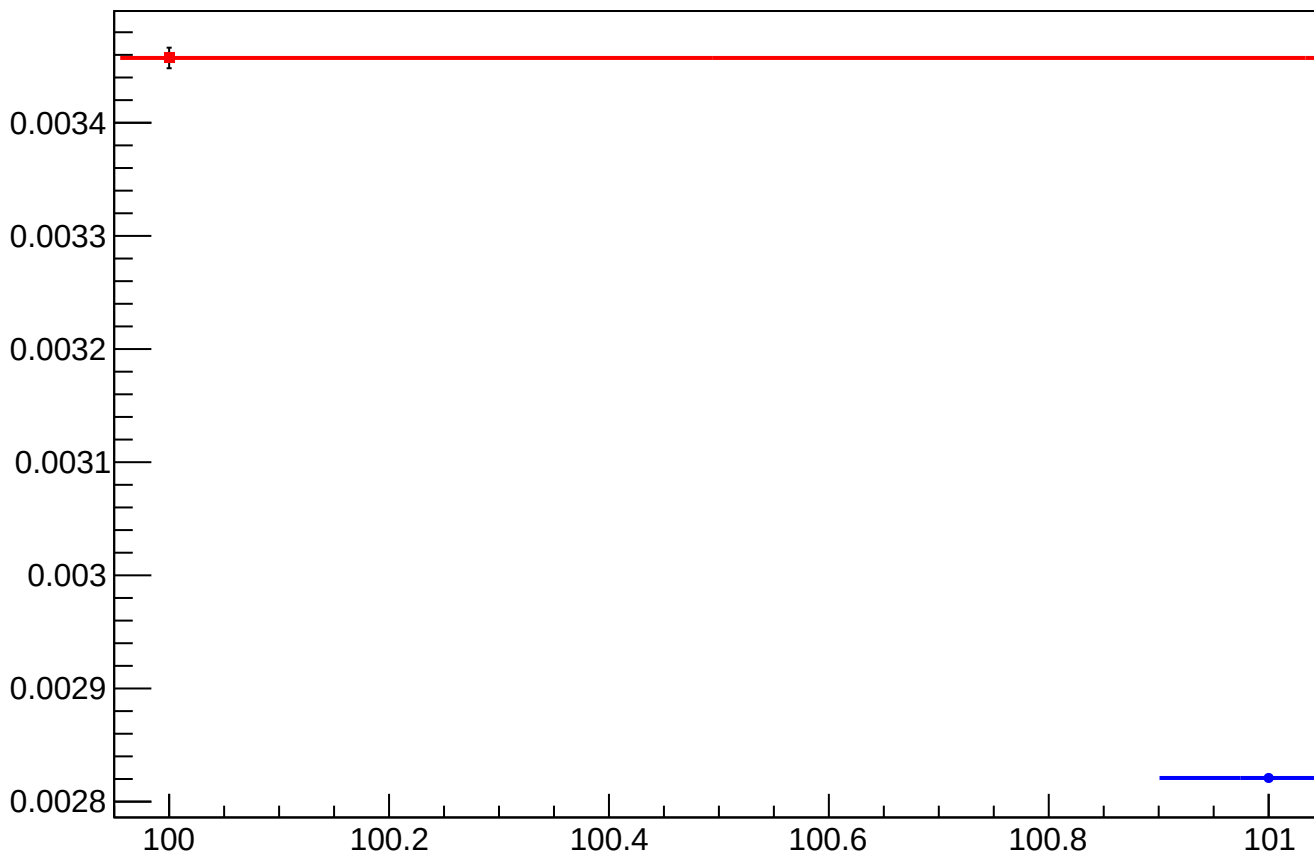
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.9/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.9/1

asym\_sam\_26\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4563.4/1

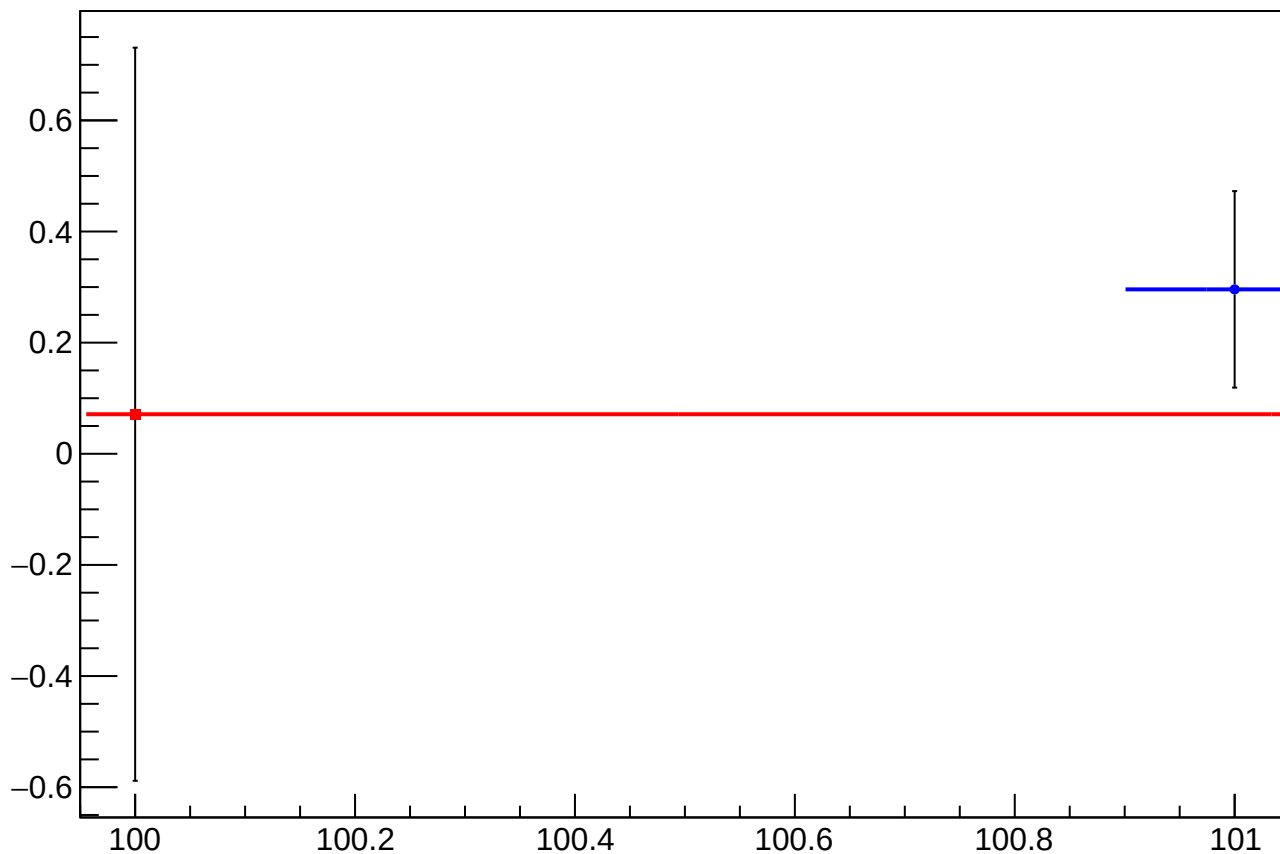
In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 4563.4/1



asym\_sam\_26\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.296 $\pm$ 0.177  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.071 $\pm$ 0.660  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

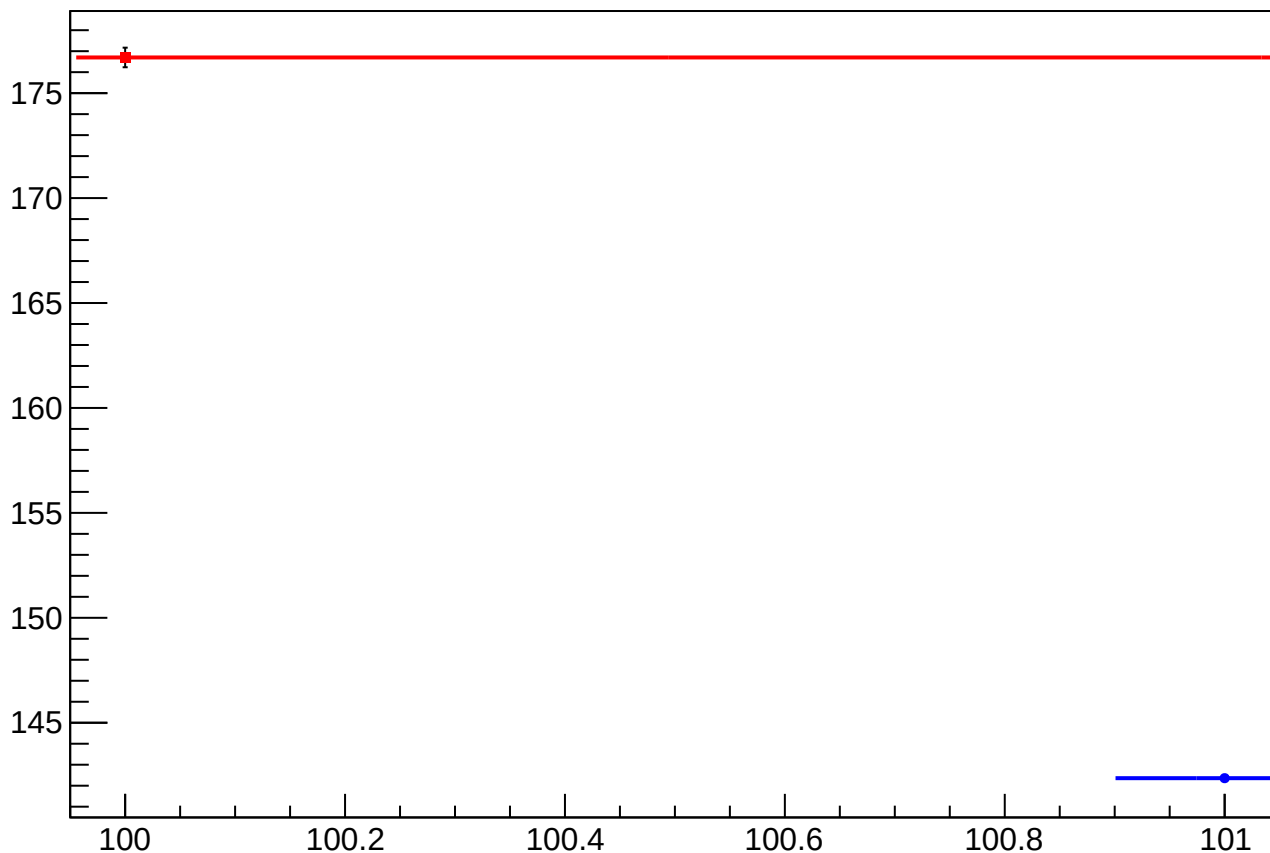
Right: 0.281 $\pm$ 0.171  $\chi^2$ /NDF: 0.1/1

In: 0.296 $\pm$ 0.177  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.281 $\pm$ 0.171  $\chi^2$ /NDF: 0.1/1

asym\_sam\_26\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 142.359 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 176.701 $\pm$ 0.466  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

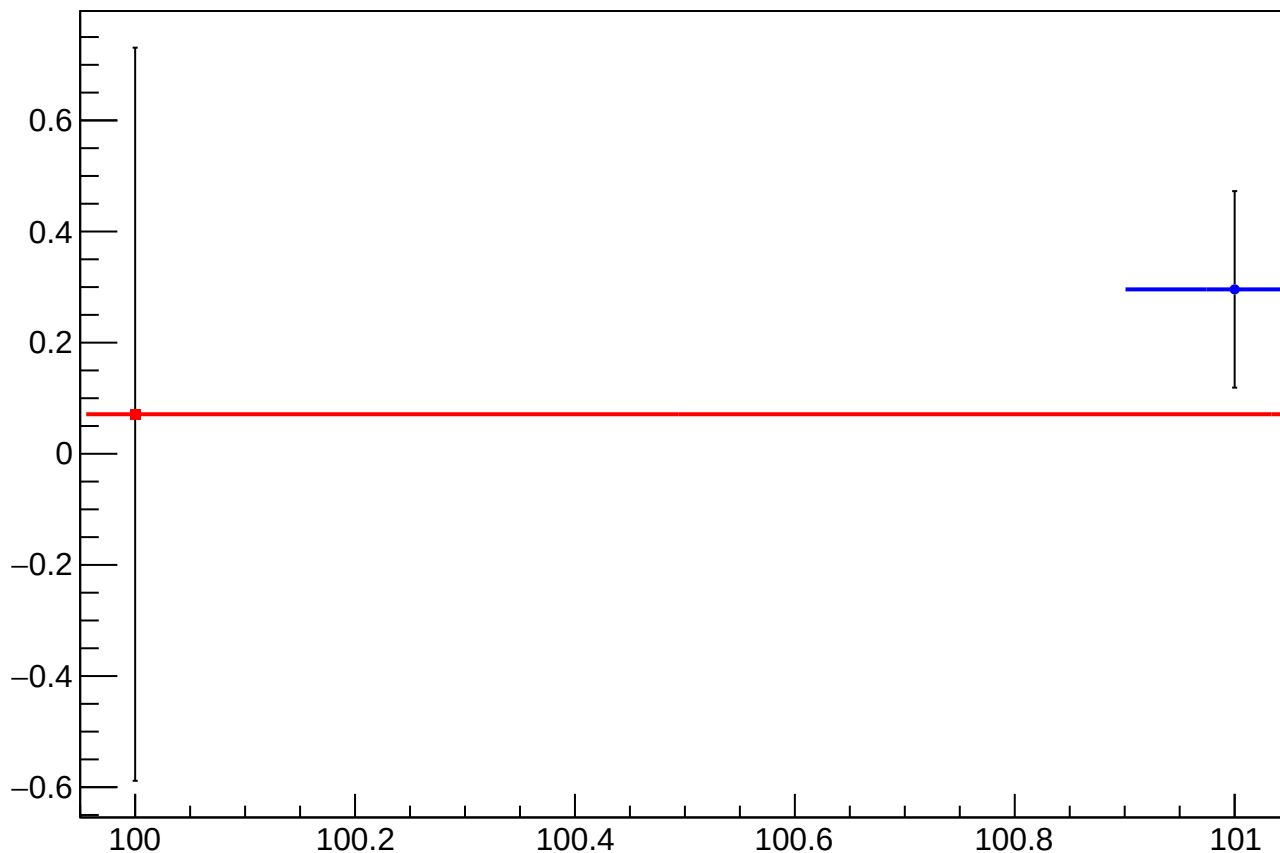
Right: 144.661 $\pm$ 0.121  $\chi^2$ /NDF: 5056.7/1

In: 142.359 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 144.661 $\pm$ 0.121  $\chi^2$ /NDF: 5056.7/1

asym\_sam\_26\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.296+/-0.177  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.071+/-0.660  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

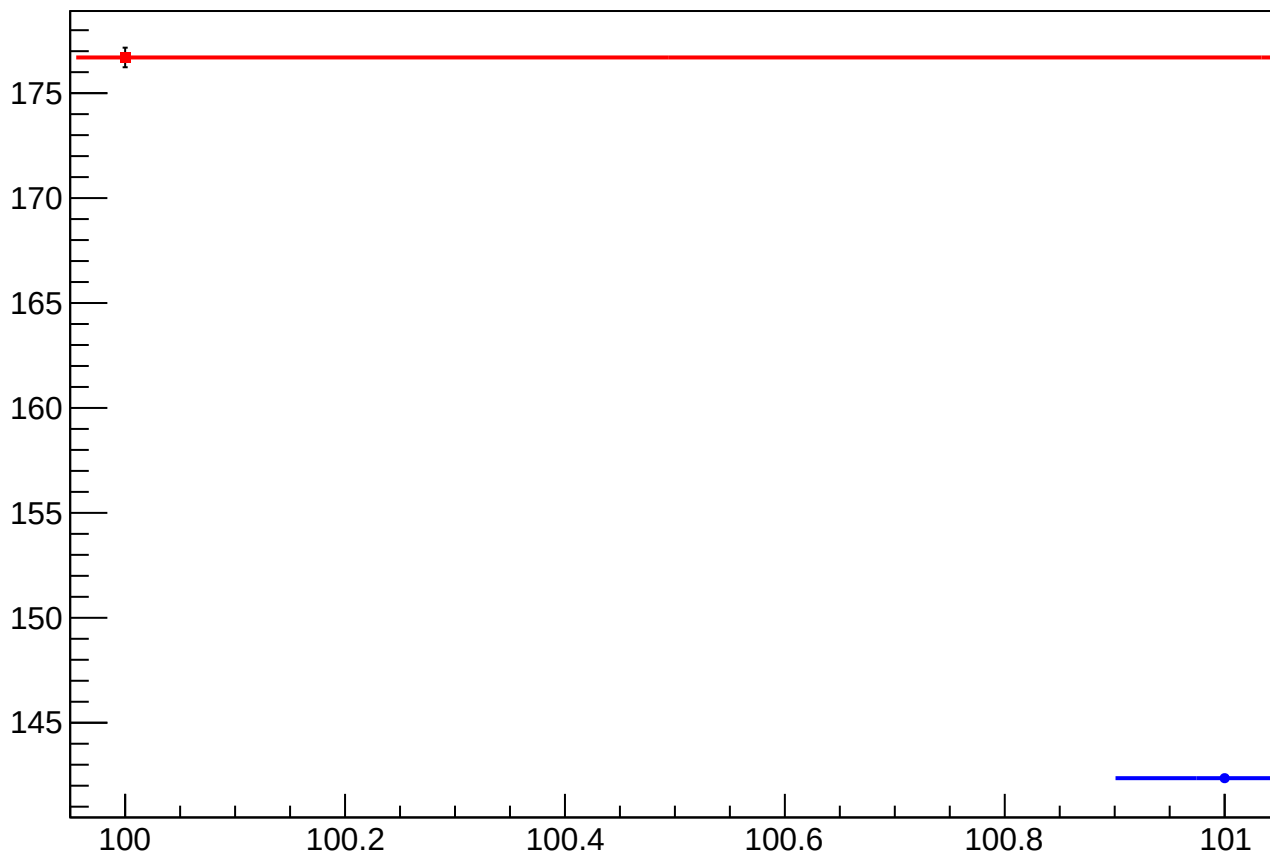
Right: 0.281+/-0.171  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.296+/-0.177  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.281+/-0.171  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_26\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 142.359 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 176.701 $\pm$ 0.466  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

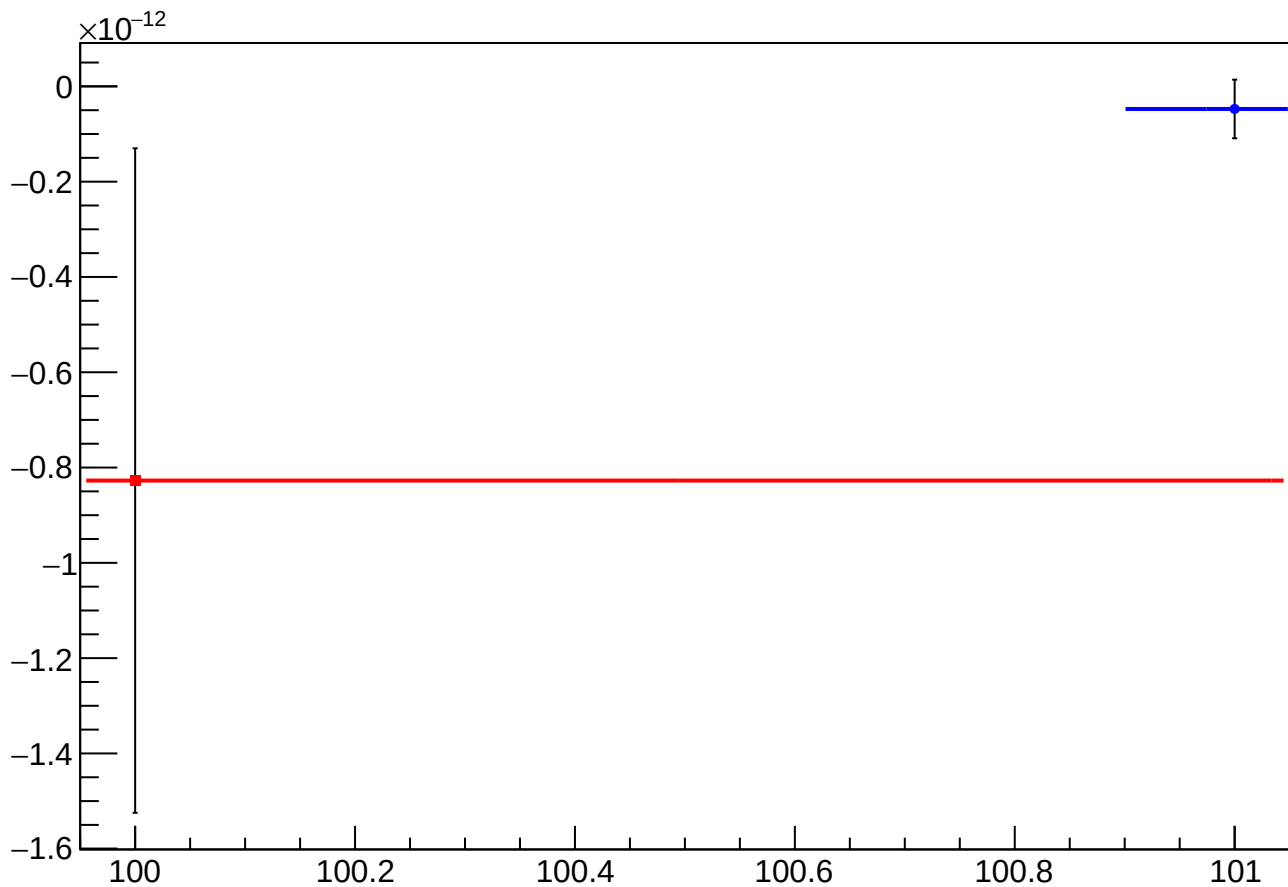
Right: 144.661 $\pm$ 0.121  $\chi^2$ /NDF: 5056.7/1

In: 142.359 $\pm$ 0.125  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 144.661 $\pm$ 0.121  $\chi^2$ /NDF: 5056.7/1

asym\_sam\_26\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

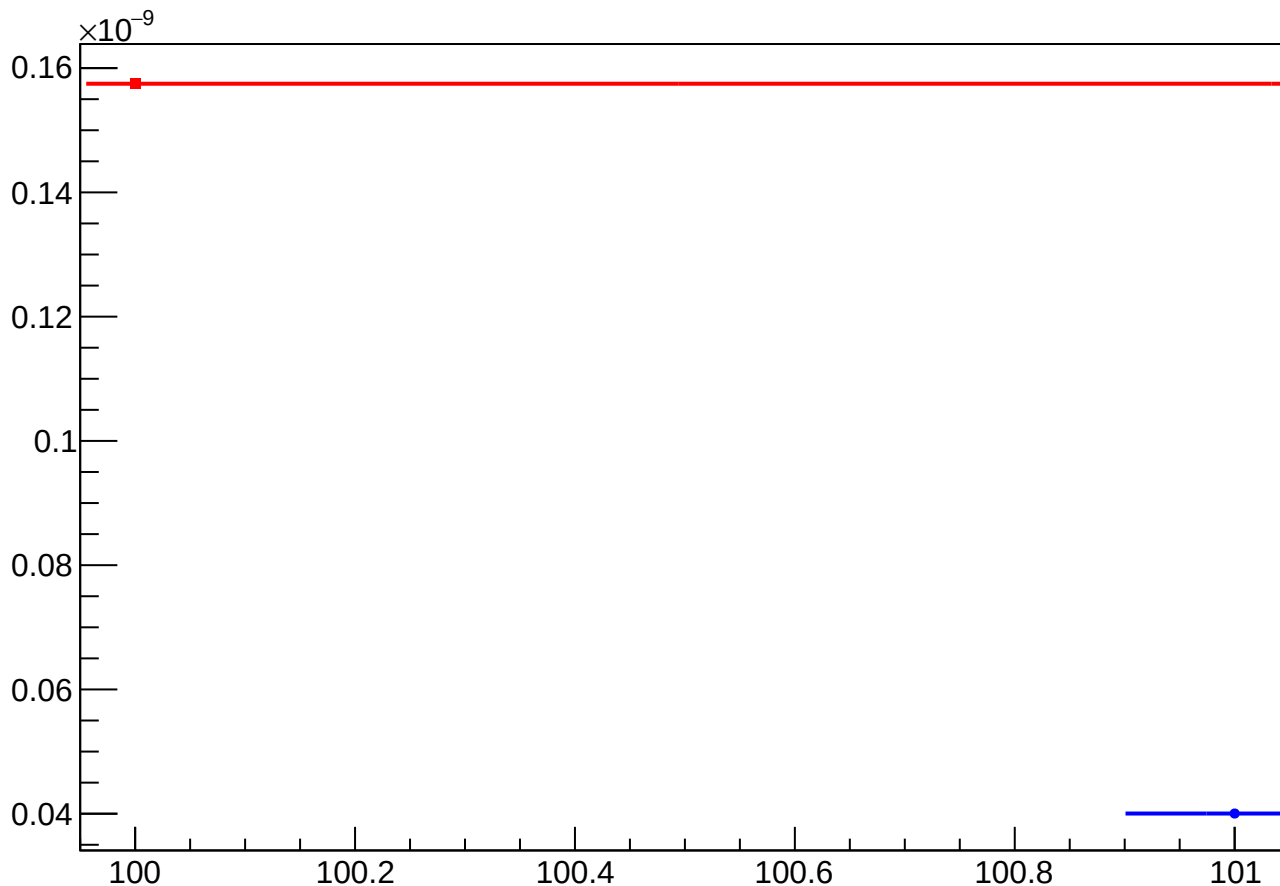
Right: -0.000+/-0.000  $\chi^2$ /NDF: 1.2/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 1.2/1

asym\_sam\_26\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

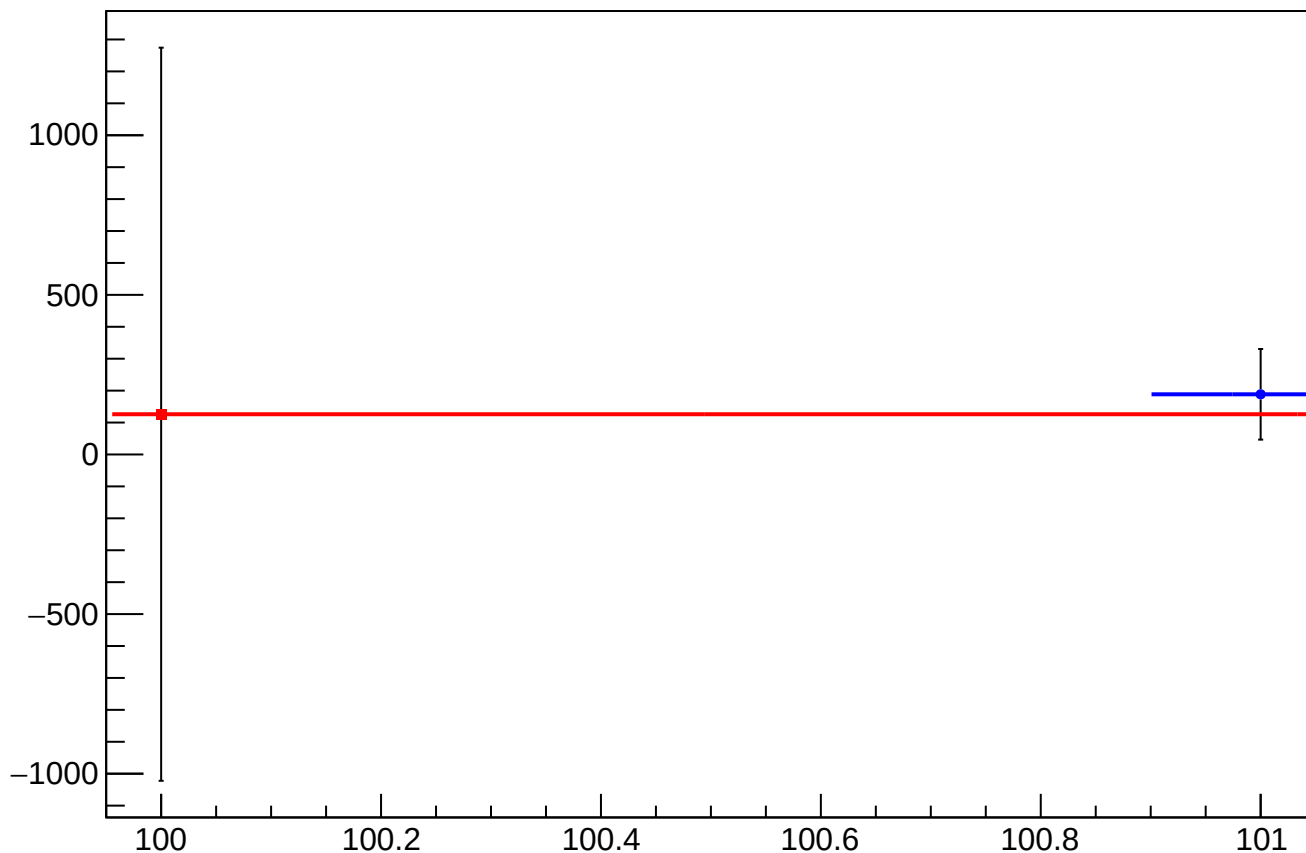
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 56307.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 56307.3/1

reg\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 188.496+/-141.944  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 126.052+/-1148.289  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

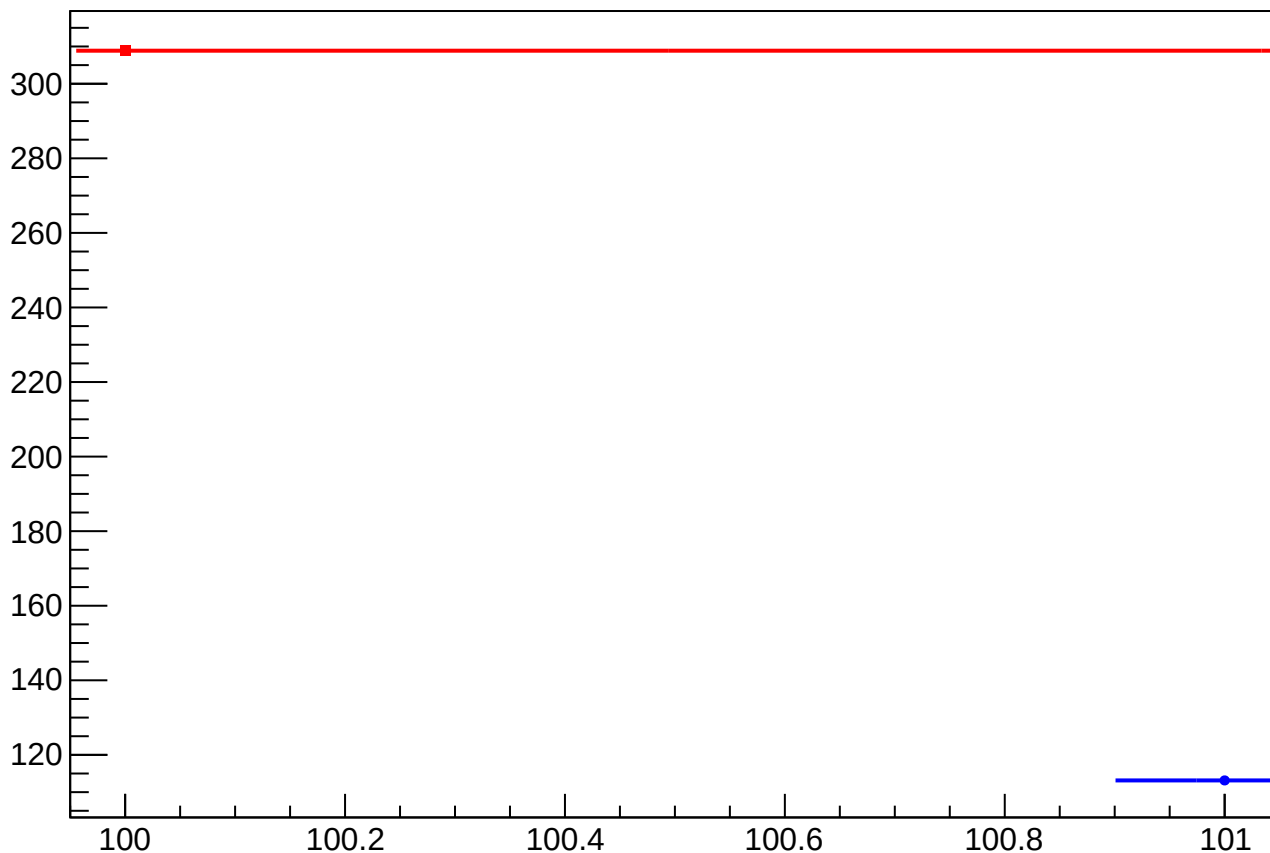
Right: 187.556+/-140.872  $\chi^2/\text{NDF}$ : 0.0/1

In: 188.496+/-141.944  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 187.556+/-140.872  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 113.145 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 308.868 $\pm$ 0.812  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 116.091 $\pm$ 0.100  $\chi^2$ /NDF: 57230.0/1

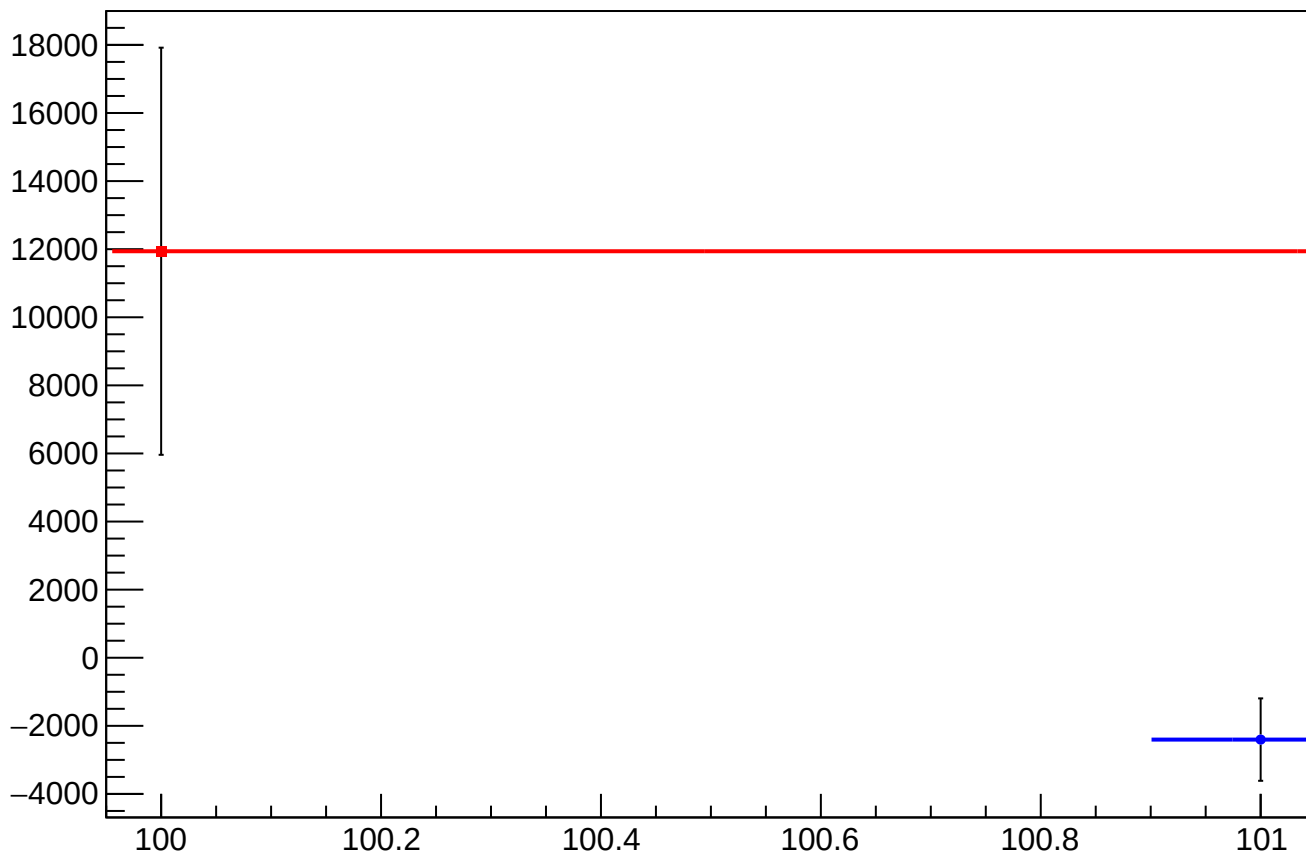
In: 113.145 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.091 $\pm$ 0.100  $\chi^2$ /NDF: 57230.0/1



asym\_sam\_37\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -2404.009+/-1210.260  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11939.418+/-5979.161  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

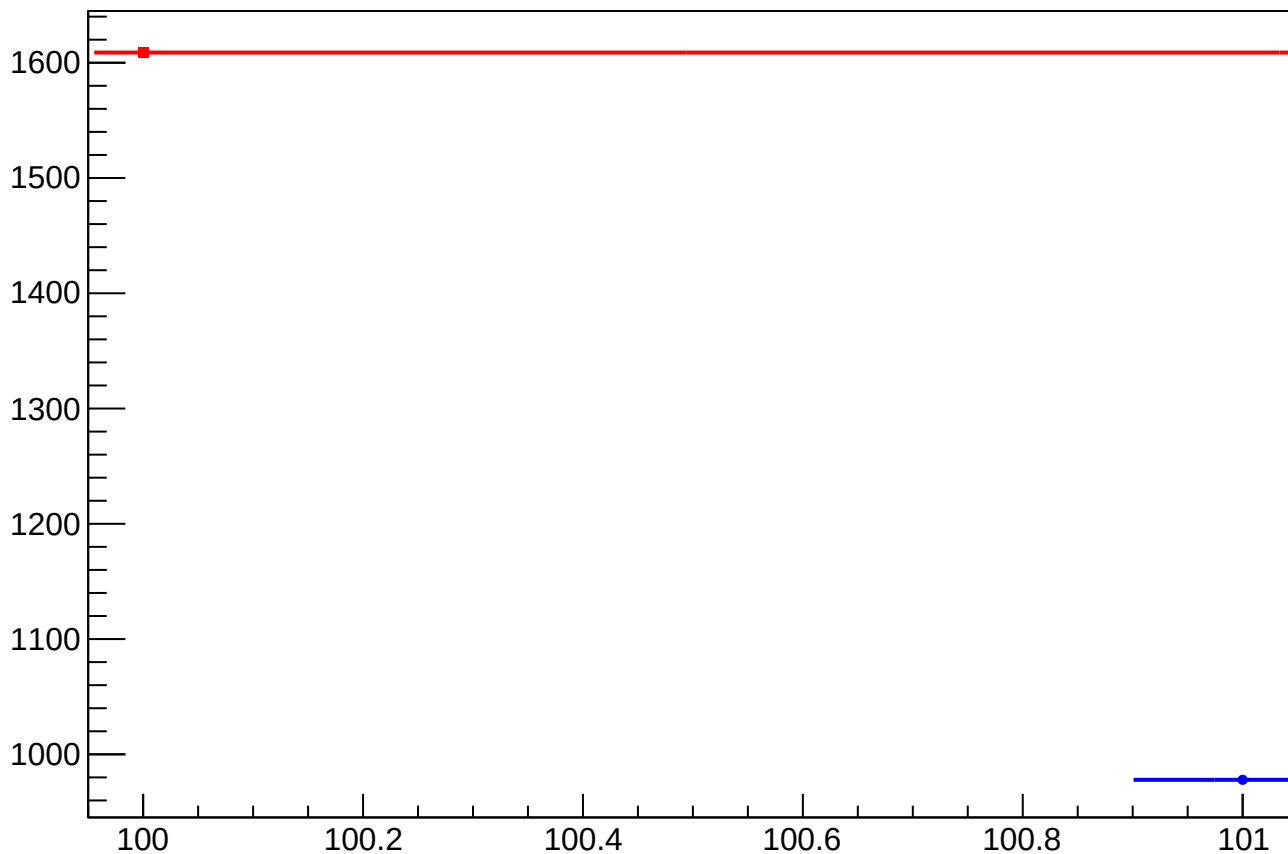
Right: -1839.473+/-1186.204  $\chi^2/\text{NDF}$ : 5.5/1

In: -2404.009+/-1210.260  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1839.473+/-1186.204  $\chi^2/\text{NDF}$ : 5.5/1

asym\_sam\_37\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 977.900 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1608.839 $\pm$ 4.228  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

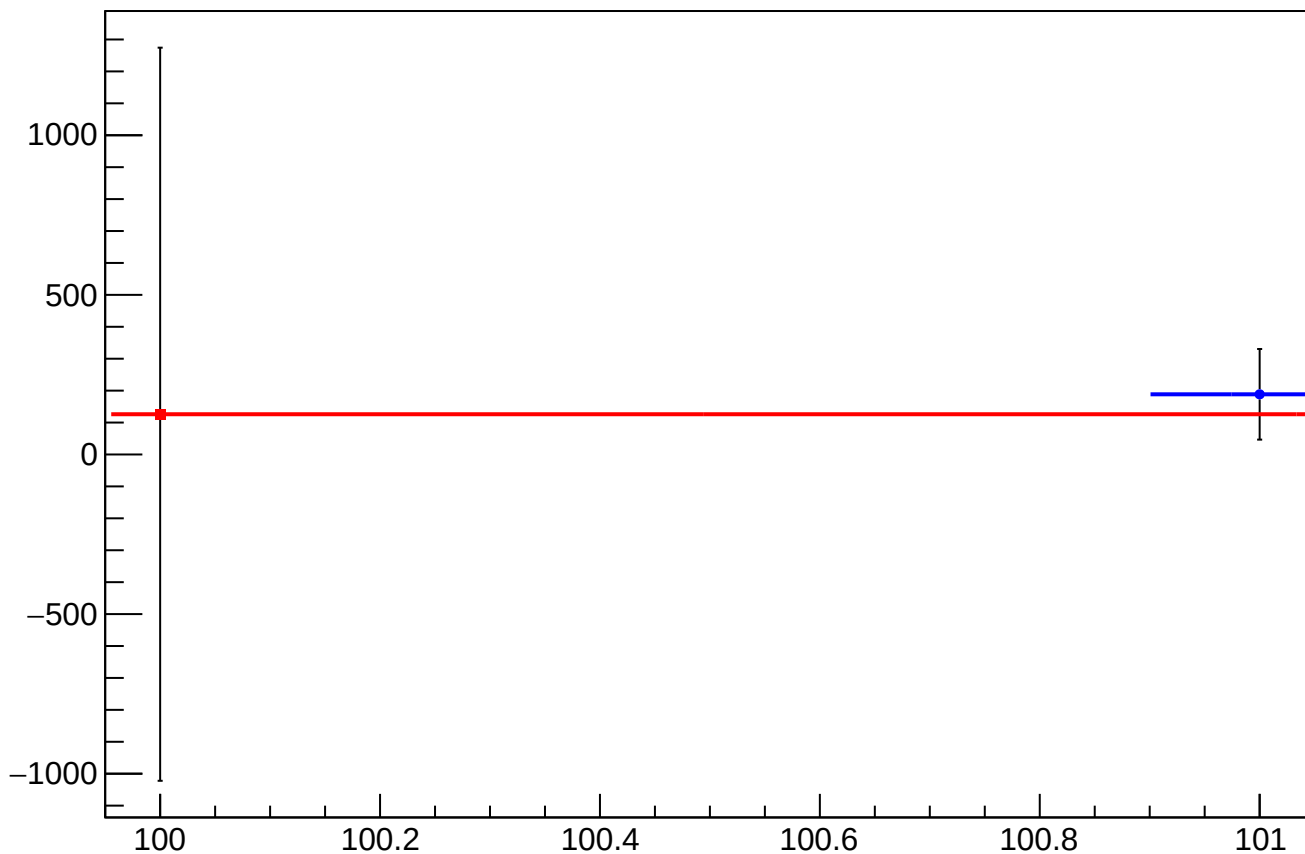
Right: 1002.733 $\pm$ 0.839  $\chi^2$ /NDF: 21393.7/1

In: 977.900 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1002.733 $\pm$ 0.839  $\chi^2$ /NDF: 21393.7/1

cor\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 188.487 $\pm$ 141.944  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 126.060 $\pm$ 1148.289  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

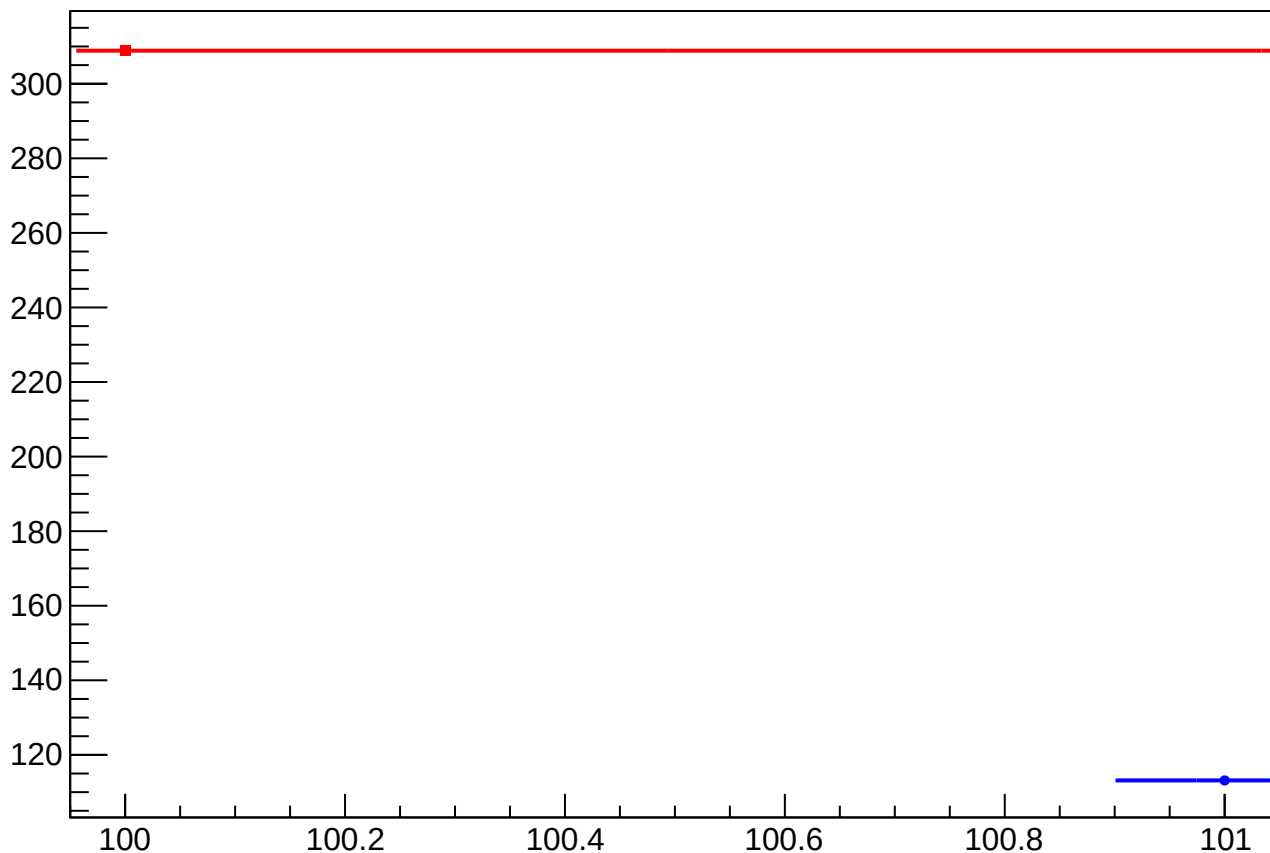
Right: 187.547 $\pm$ 140.872  $\chi^2$ /NDF: 0.0/1

In: 188.487 $\pm$ 141.944  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 187.547 $\pm$ 140.872  $\chi^2$ /NDF: 0.0/1

cor\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 113.145 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 308.868 $\pm$ 0.812  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

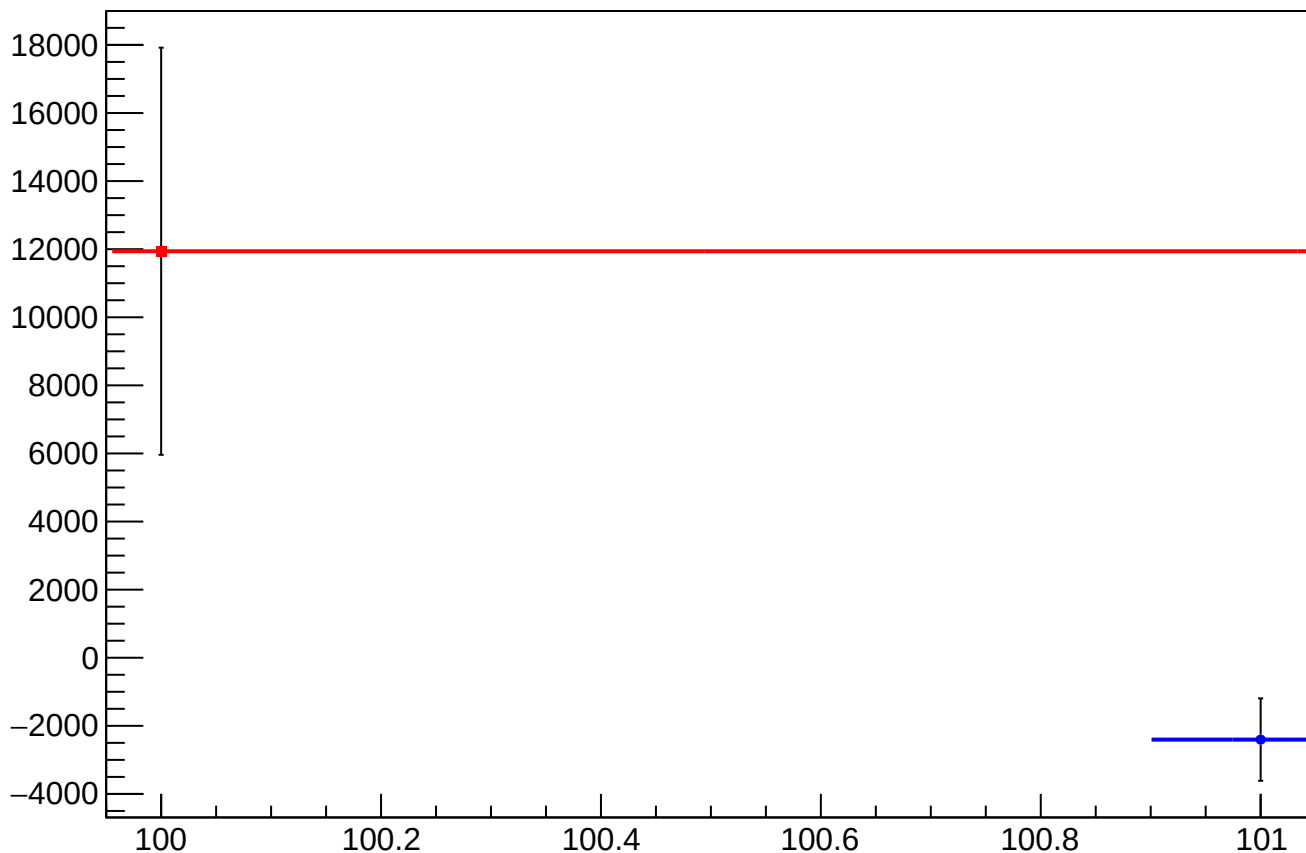
Right: 116.091 $\pm$ 0.100  $\chi^2$ /NDF: 57230.0/1

In: 113.145 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.091 $\pm$ 0.100  $\chi^2$ /NDF: 57230.0/1

asym\_sam\_37\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2404.010+/-1210.262  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11939.421+/-5979.163  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

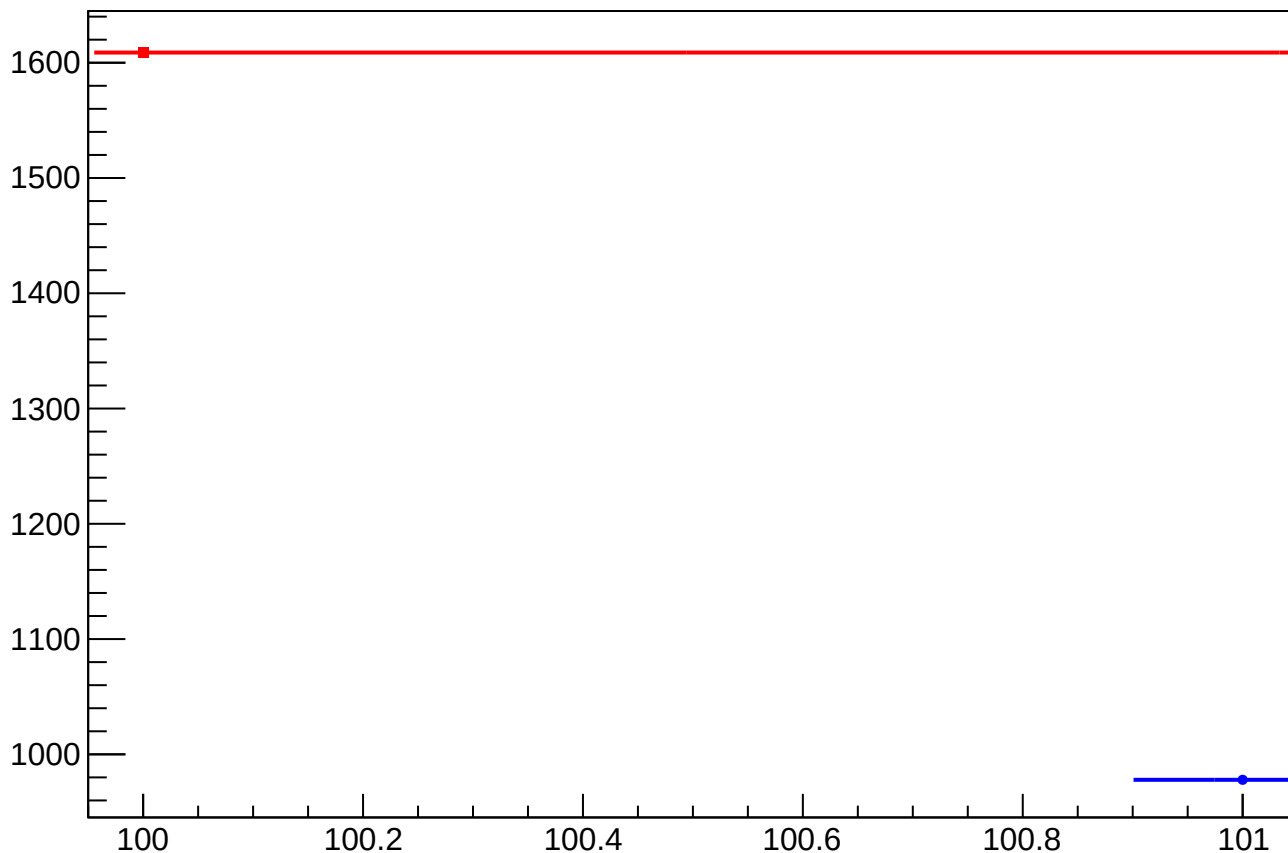
Right: -1839.474+/-1186.206  $\chi^2/\text{NDF}$ : 5.5/1

In: -2404.010+/-1210.262  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1839.474+/-1186.206  $\chi^2/\text{NDF}$ : 5.5/1

asym\_sam\_37\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 977.901 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1608.840 $\pm$ 4.228  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

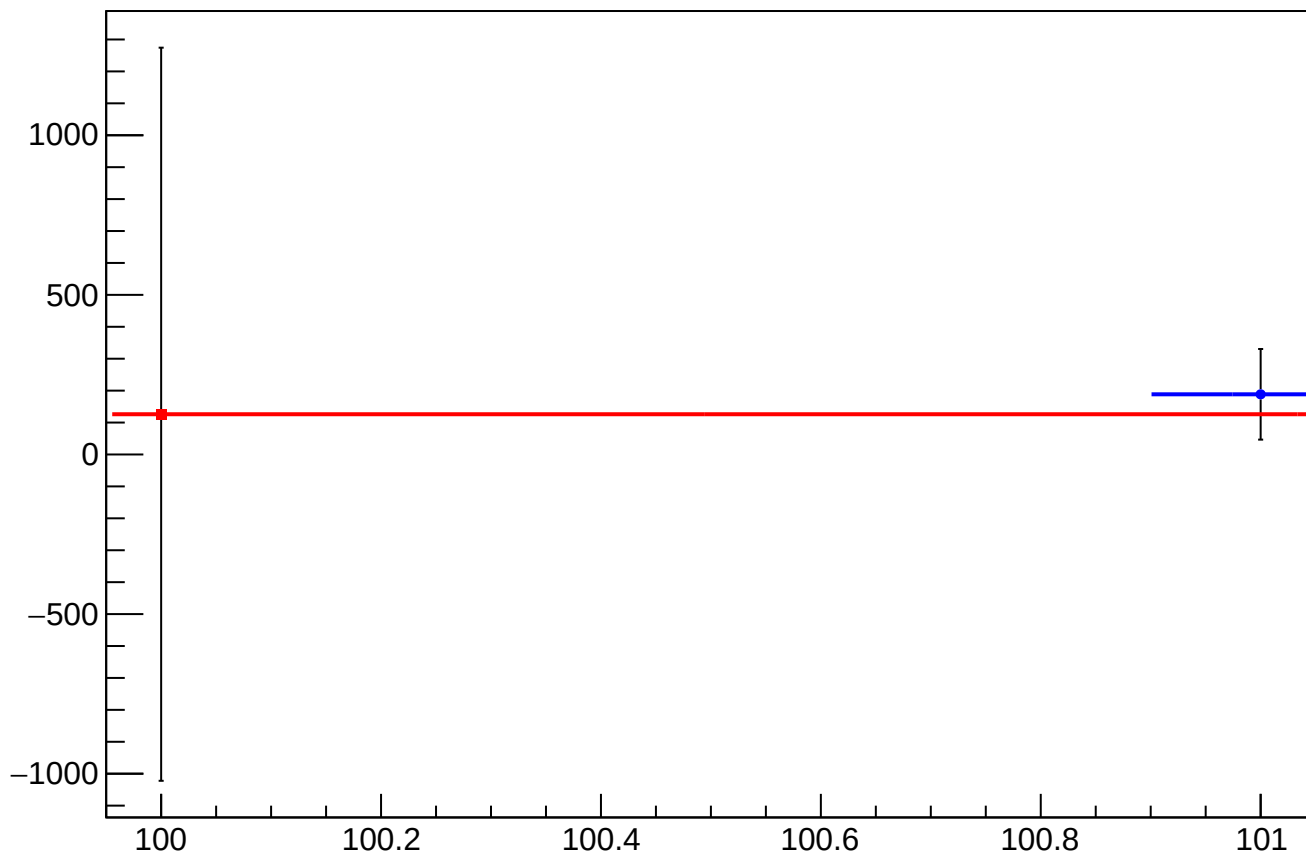
Right: 1002.734 $\pm$ 0.839  $\chi^2$ /NDF: 21393.6/1

In: 977.901 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1002.734 $\pm$ 0.839  $\chi^2$ /NDF: 21393.6/1

eigen\_cor\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 188.487+/-141.944  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 126.060+/-1148.289  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

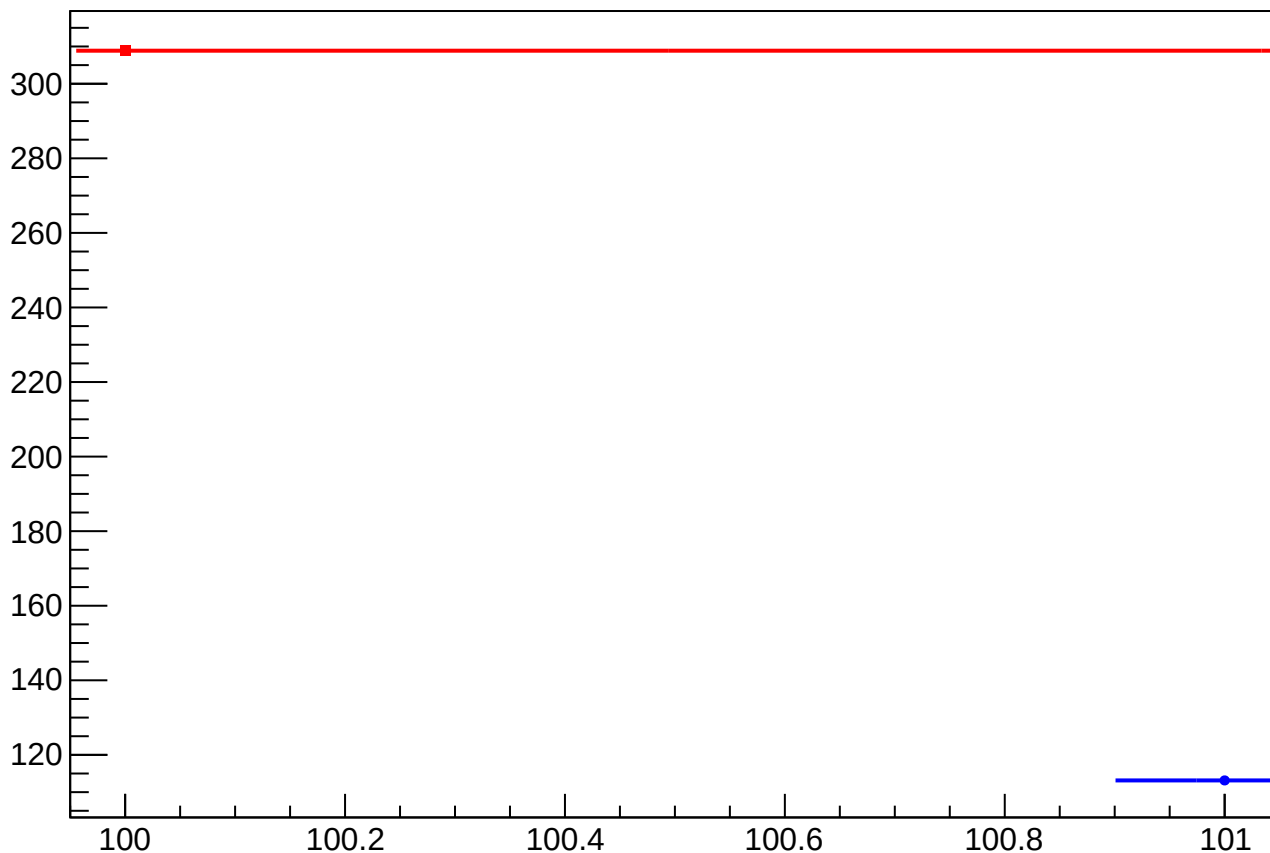
Right: 187.547+/-140.872  $\chi^2/\text{NDF}$ : 0.0/1

In: 188.487+/-141.944  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 187.547+/-140.872  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 113.145 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 308.868 $\pm$ 0.812  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 116.091 $\pm$ 0.100  $\chi^2$ /NDF: 57230.0/1

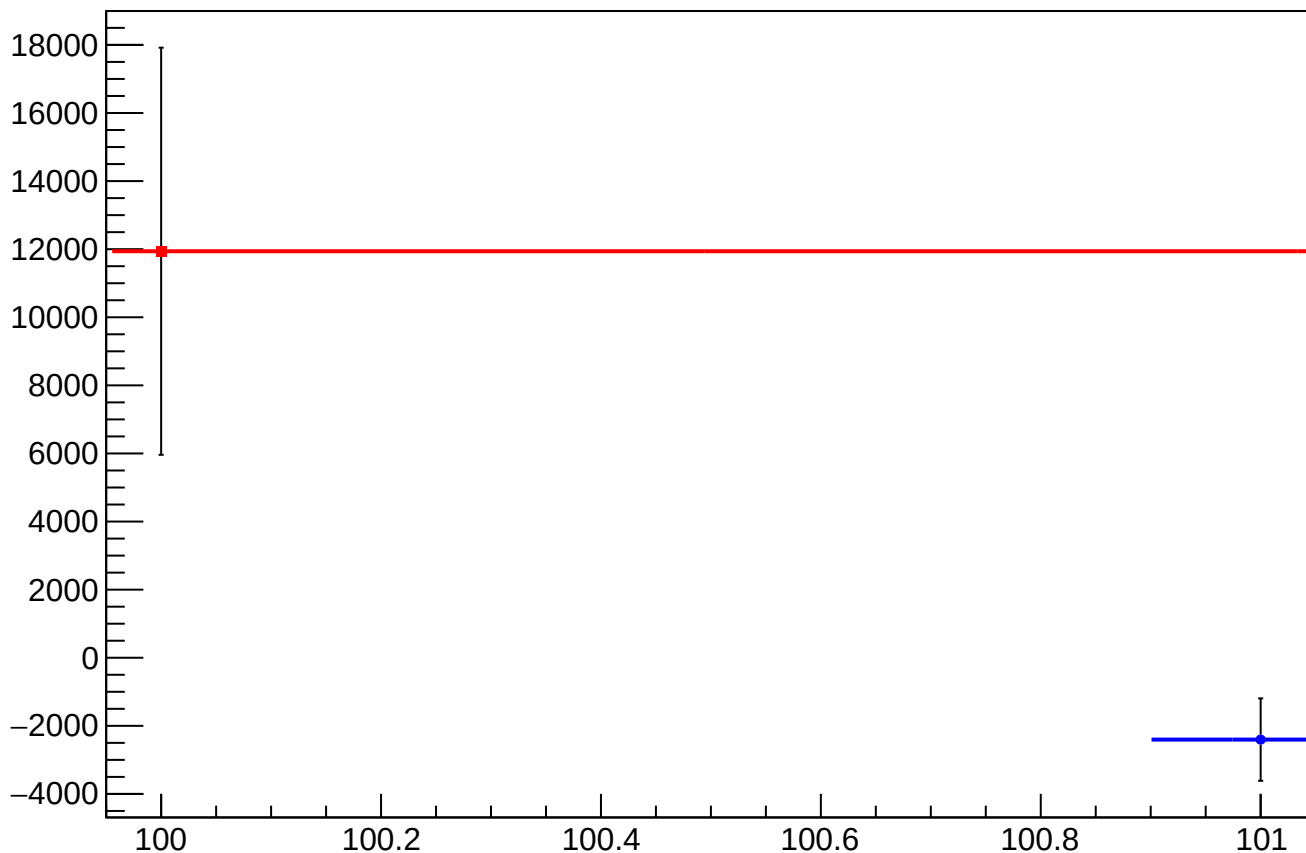
In: 113.145 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 116.091 $\pm$ 0.100  $\chi^2$ /NDF: 57230.0/1



asym\_sam\_37\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2404.010+/-1210.262  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11939.421+/-5979.163  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

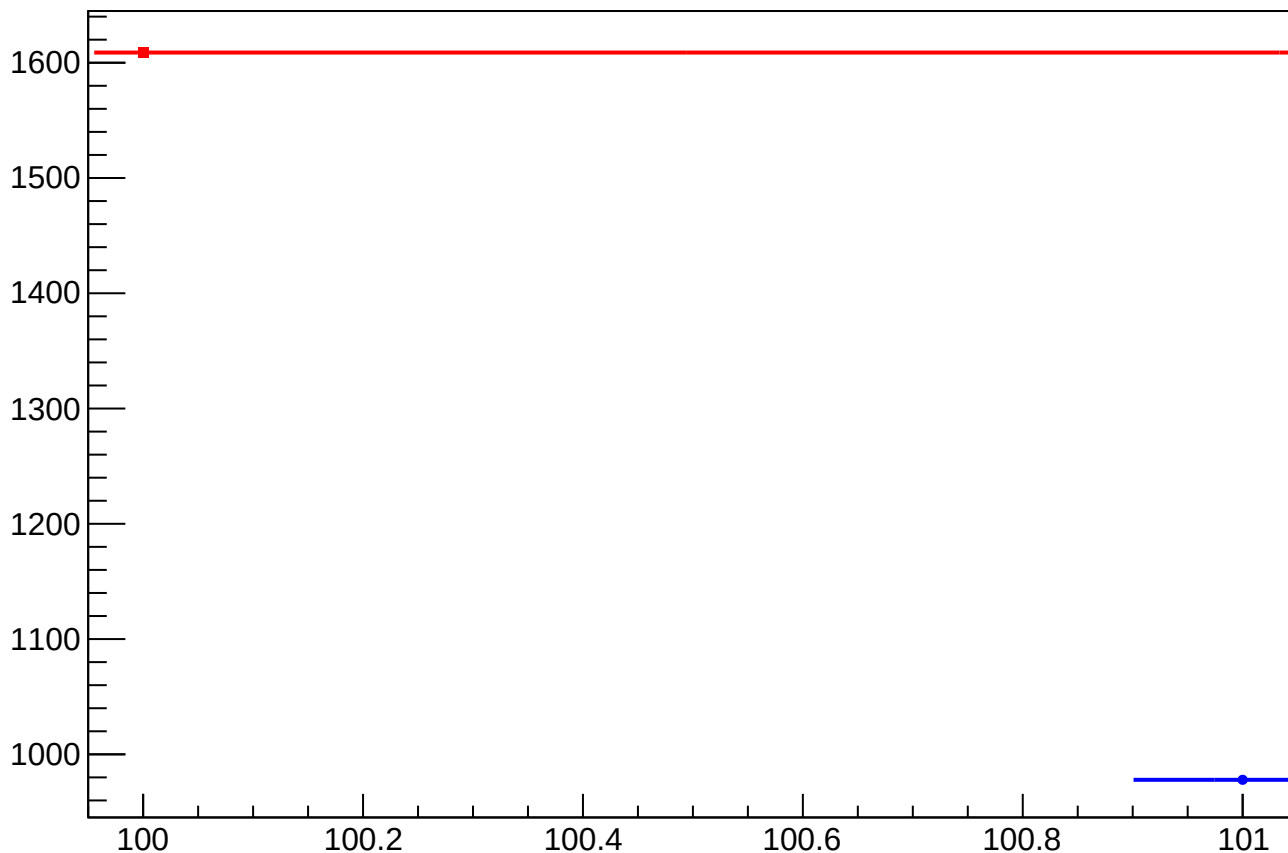
Right: -1839.474+/-1186.206  $\chi^2/\text{NDF}$ : 5.5/1

In: -2404.010+/-1210.262  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1839.474+/-1186.206  $\chi^2/\text{NDF}$ : 5.5/1

asym\_sam\_37\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 977.901 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1608.840 $\pm$ 4.228  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

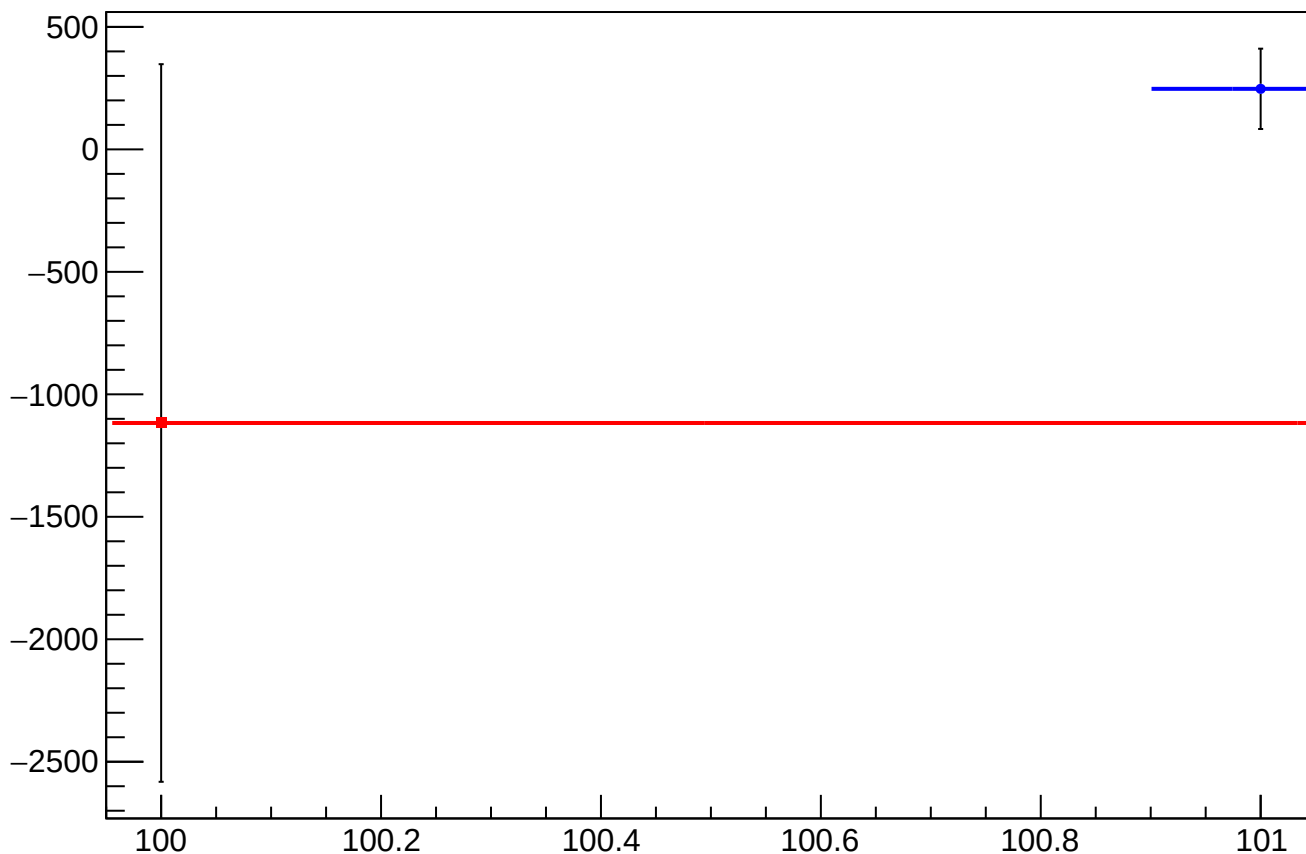
Right: 1002.734 $\pm$ 0.839  $\chi^2$ /NDF: 21393.6/1

In: 977.901 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1002.734 $\pm$ 0.839  $\chi^2$ /NDF: 21393.6/1

dit\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 247.165 $\pm$ 163.991  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1117.020 $\pm$ 1464.870  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

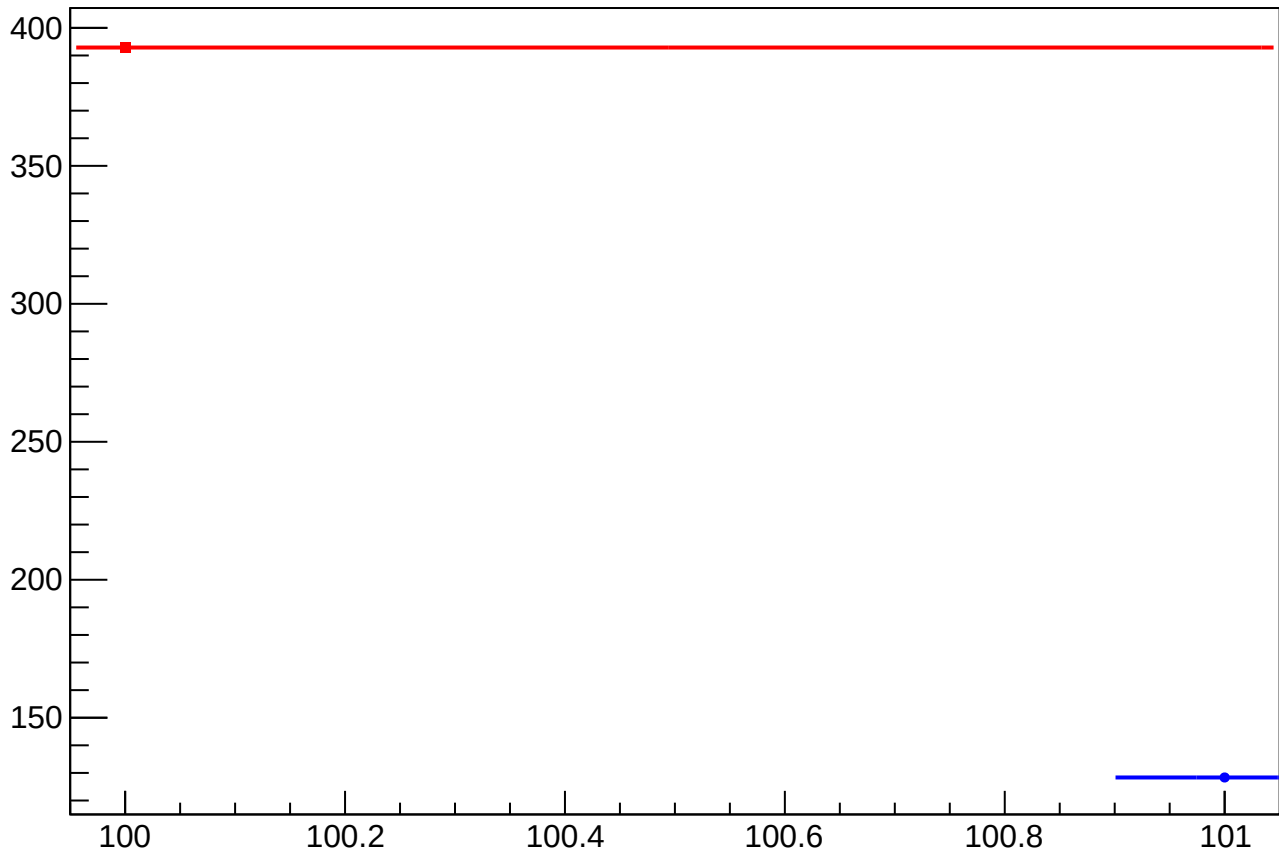
Right: 230.279 $\pm$ 162.973  $\chi^2/\text{NDF}$ : 0.9/1

In: 247.165 $\pm$ 163.991  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 230.279 $\pm$ 162.973  $\chi^2/\text{NDF}$ : 0.9/1

dit\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 128.348+/-0.116  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 392.880+/-1.036  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

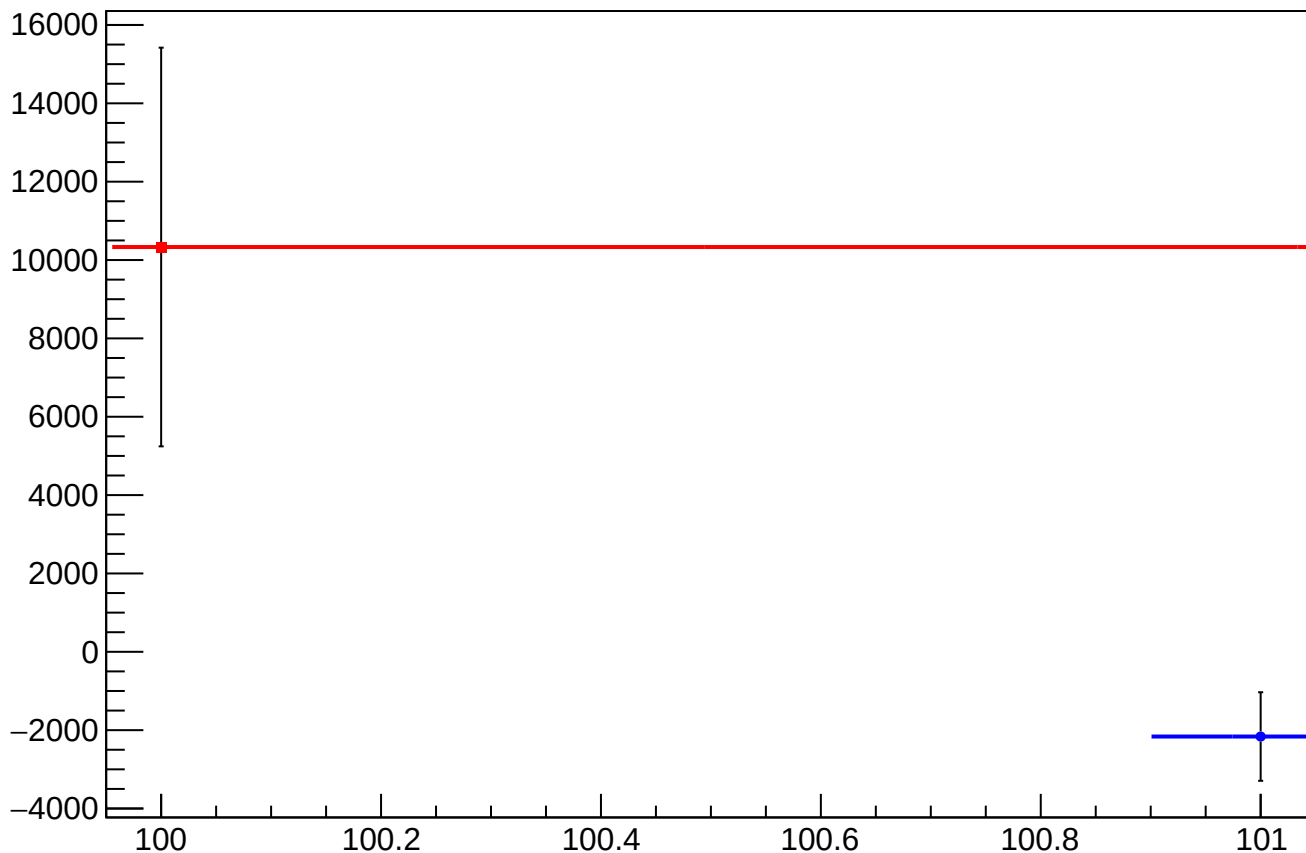
Right: 131.622+/-0.115  $\chi^2/\text{NDF}$ : 64413.9/1

In: 128.348+/-0.116  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.622+/-0.115  $\chi^2/\text{NDF}$ : 64413.9/1

asym\_sam\_37\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2162.457 $\pm$ 1130.095  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10332.413 $\pm$ 5088.197  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

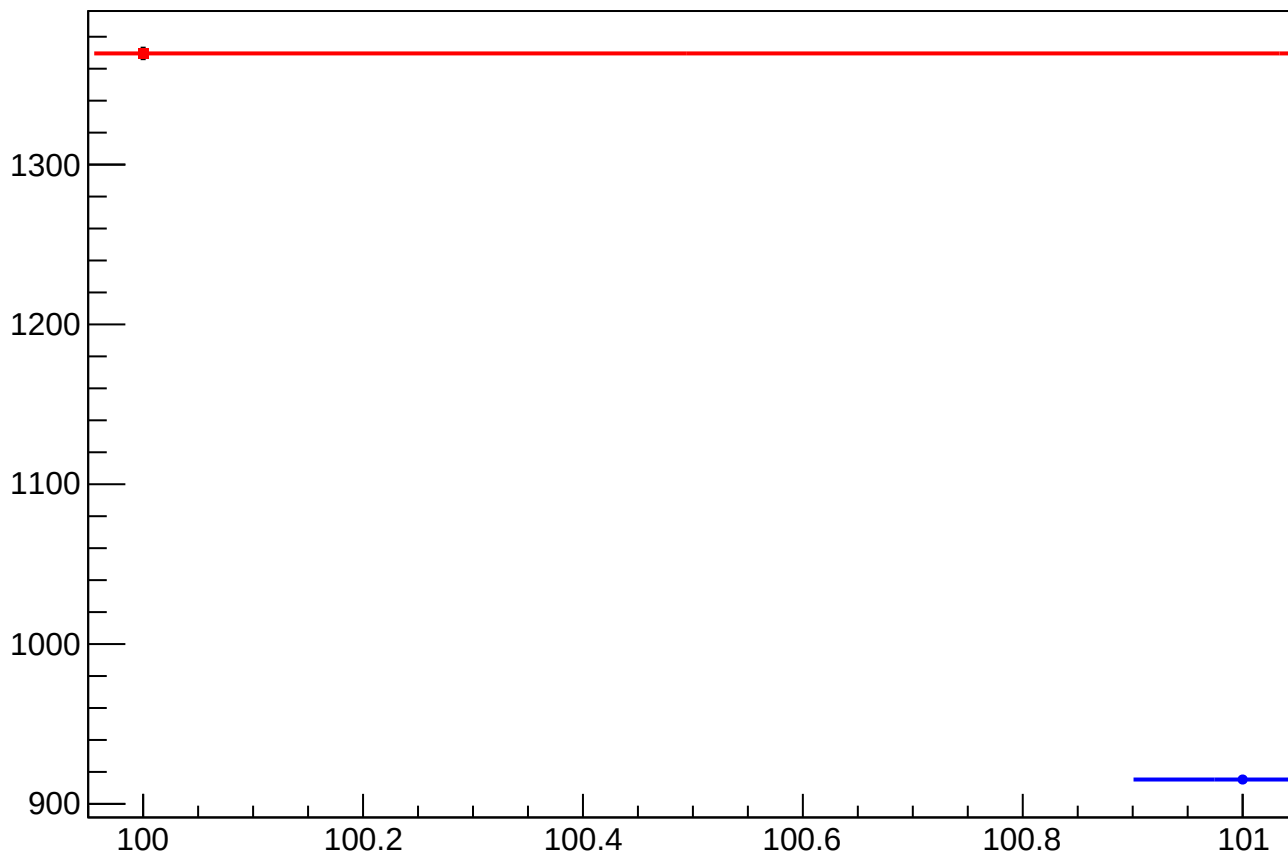
Right: -1575.074 $\pm$ 1103.212  $\chi^2/\text{NDF}$ : 5.7/1

In: -2162.457 $\pm$ 1130.095  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1575.074 $\pm$ 1103.212  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam\_37\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 915.245+/-0.799  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1369.560+/-3.598  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

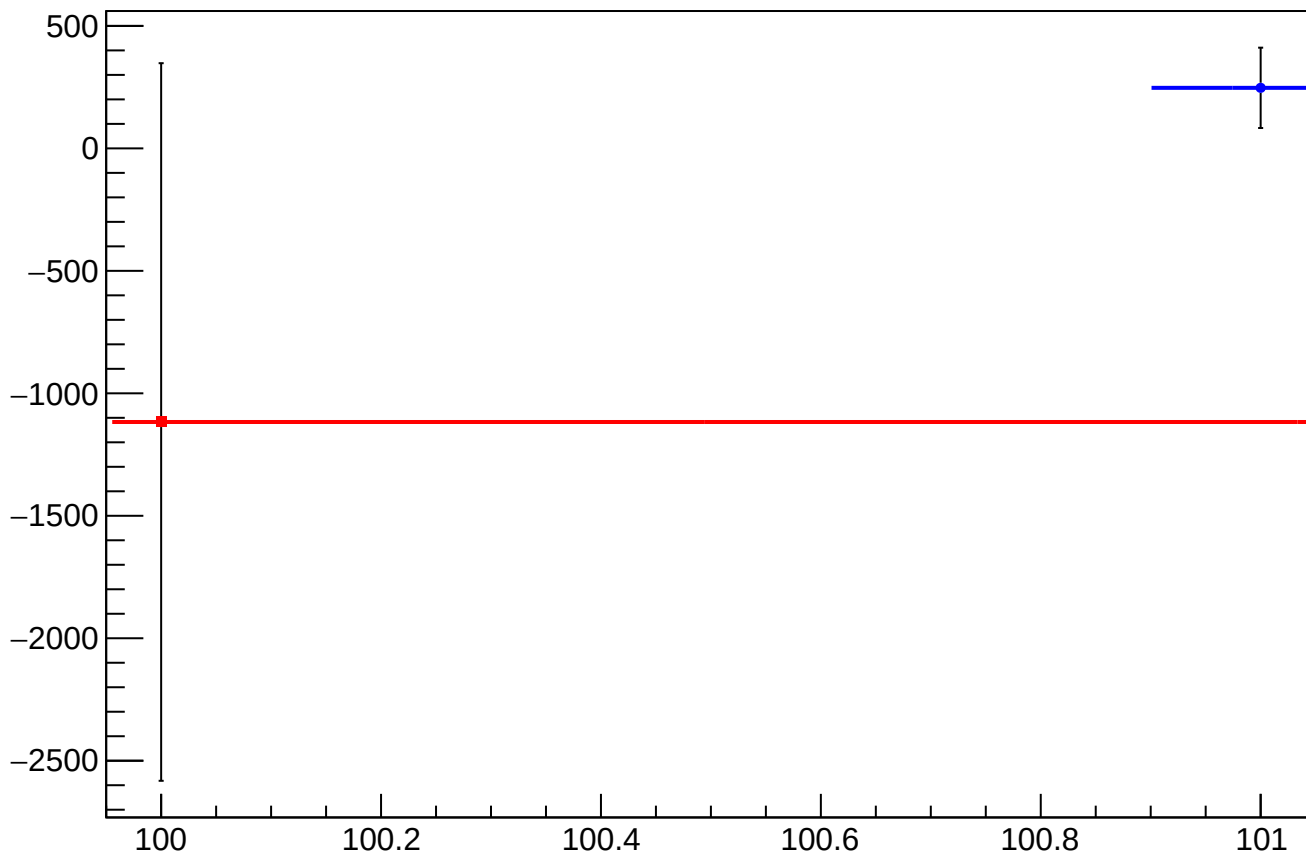
Right: 936.602+/-0.780  $\chi^2/\text{NDF}$ : 15195.2/1

In: 915.245+/-0.799  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 936.602+/-0.780  $\chi^2/\text{NDF}$ : 15195.2/1

eigen\_dit\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 247.174+/-163.992  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1117.064+/-1464.883  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

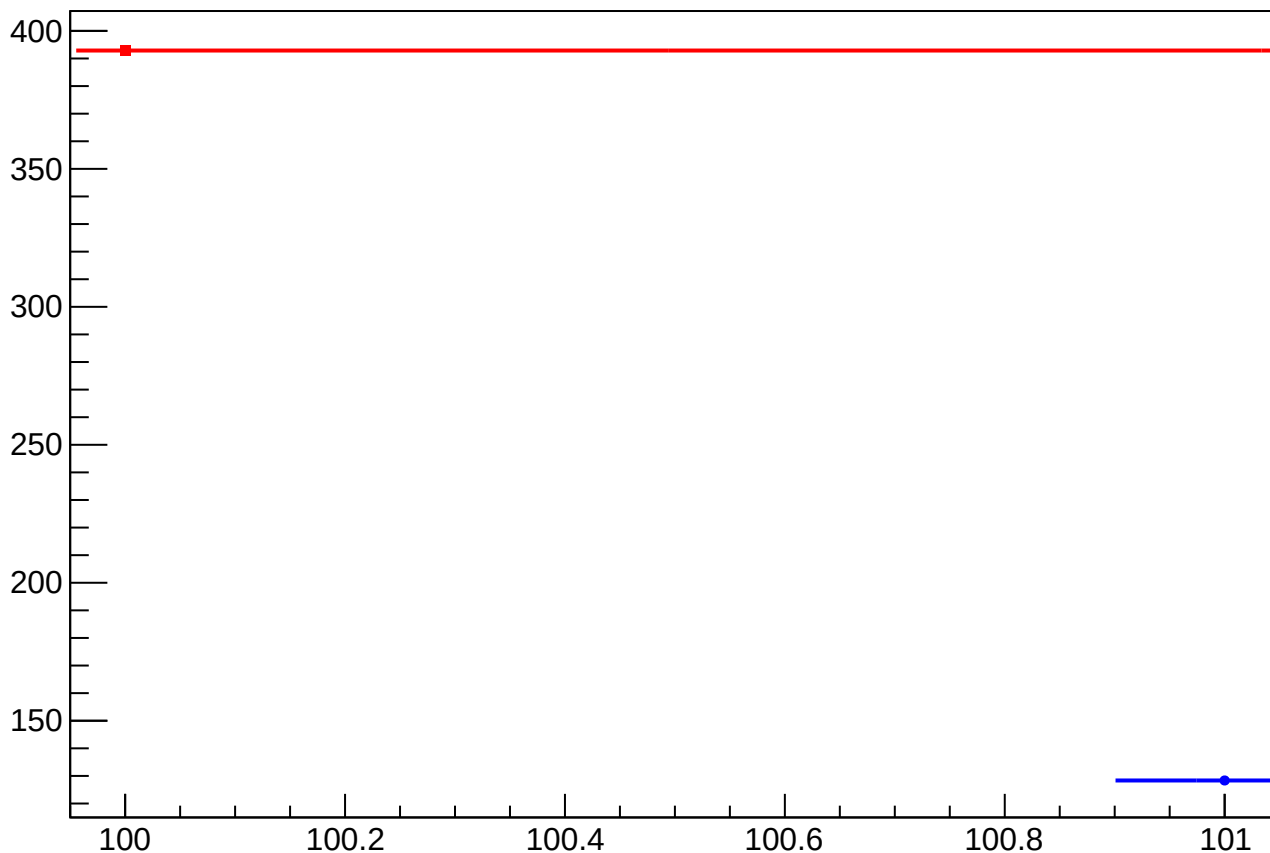
Right: 230.288+/-162.974  $\chi^2/\text{NDF}$ : 0.9/1

In: 247.174+/-163.992  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 230.288+/-162.974  $\chi^2/\text{NDF}$ : 0.9/1

eigen\_dit\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 128.349+/-0.116  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 392.883+/-1.036  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 131.624+/-0.115  $\chi^2/\text{NDF}$ : 64413.8/1

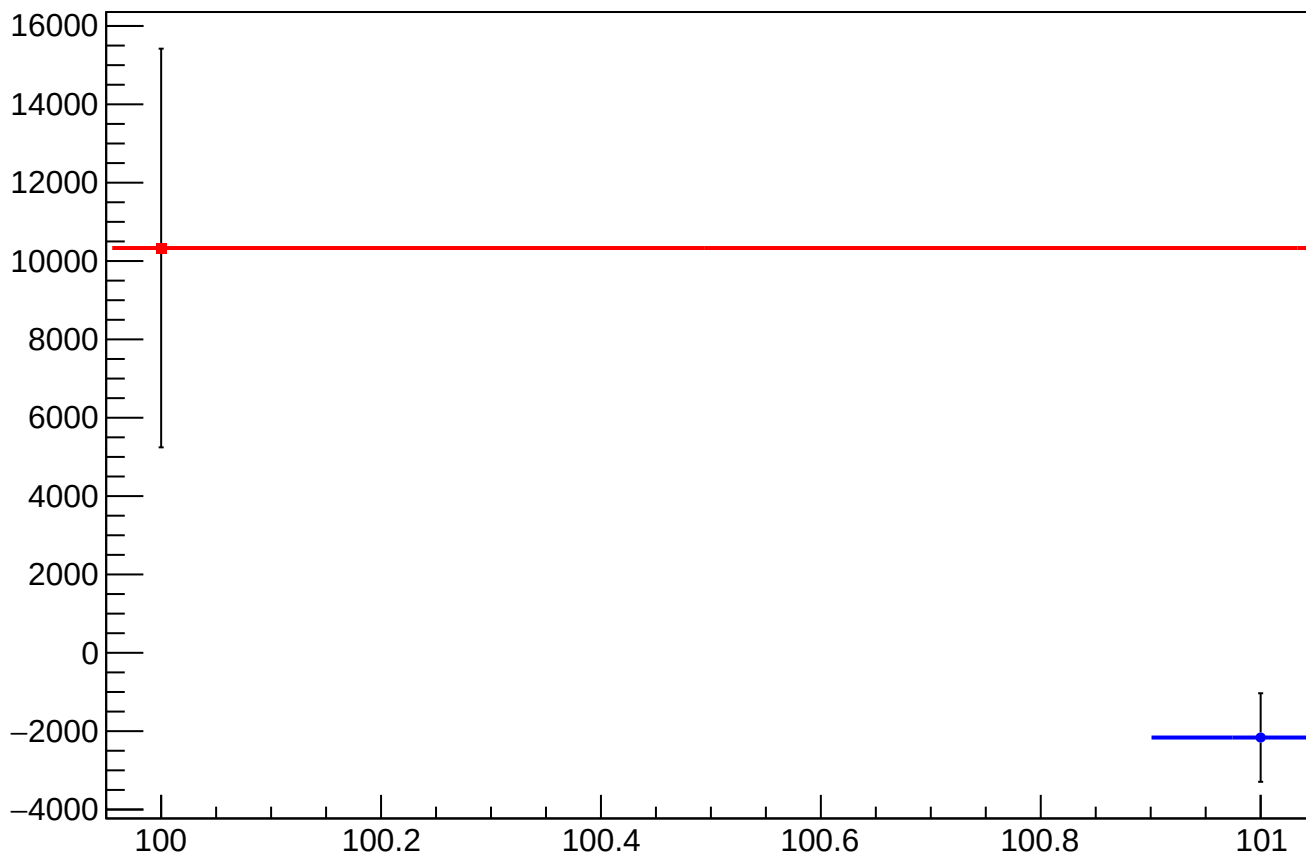
In: 128.349+/-0.116  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.624+/-0.115  $\chi^2/\text{NDF}$ : 64413.8/1



asym\_sam\_37\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2162.449 $\pm$ 1130.090  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10332.370 $\pm$ 5088.175  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

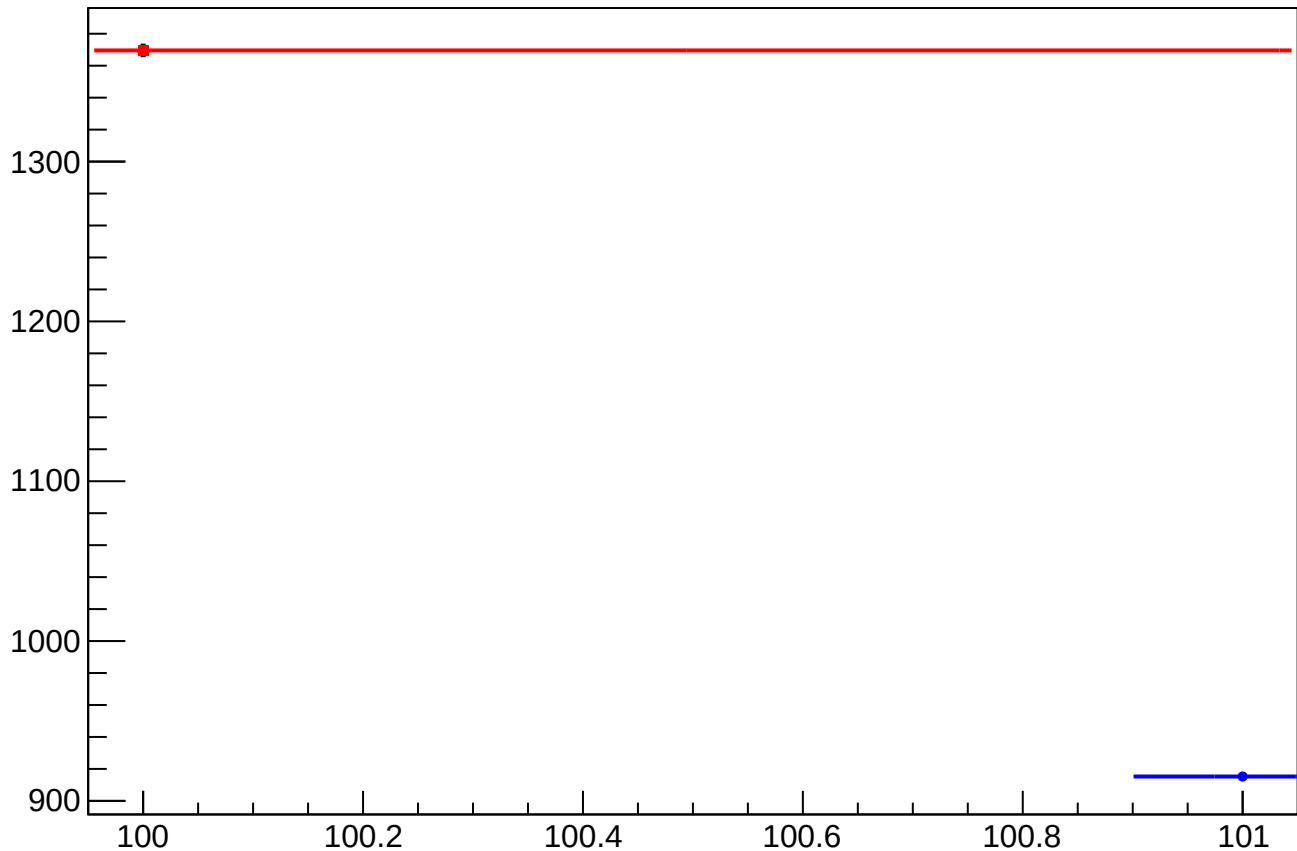
Right: -1575.067 $\pm$ 1103.207  $\chi^2/\text{NDF}$ : 5.7/1

In: -2162.449 $\pm$ 1130.090  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1575.067 $\pm$ 1103.207  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam\_37\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 915.241 $\pm$ 0.799  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1369.554 $\pm$ 3.598  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

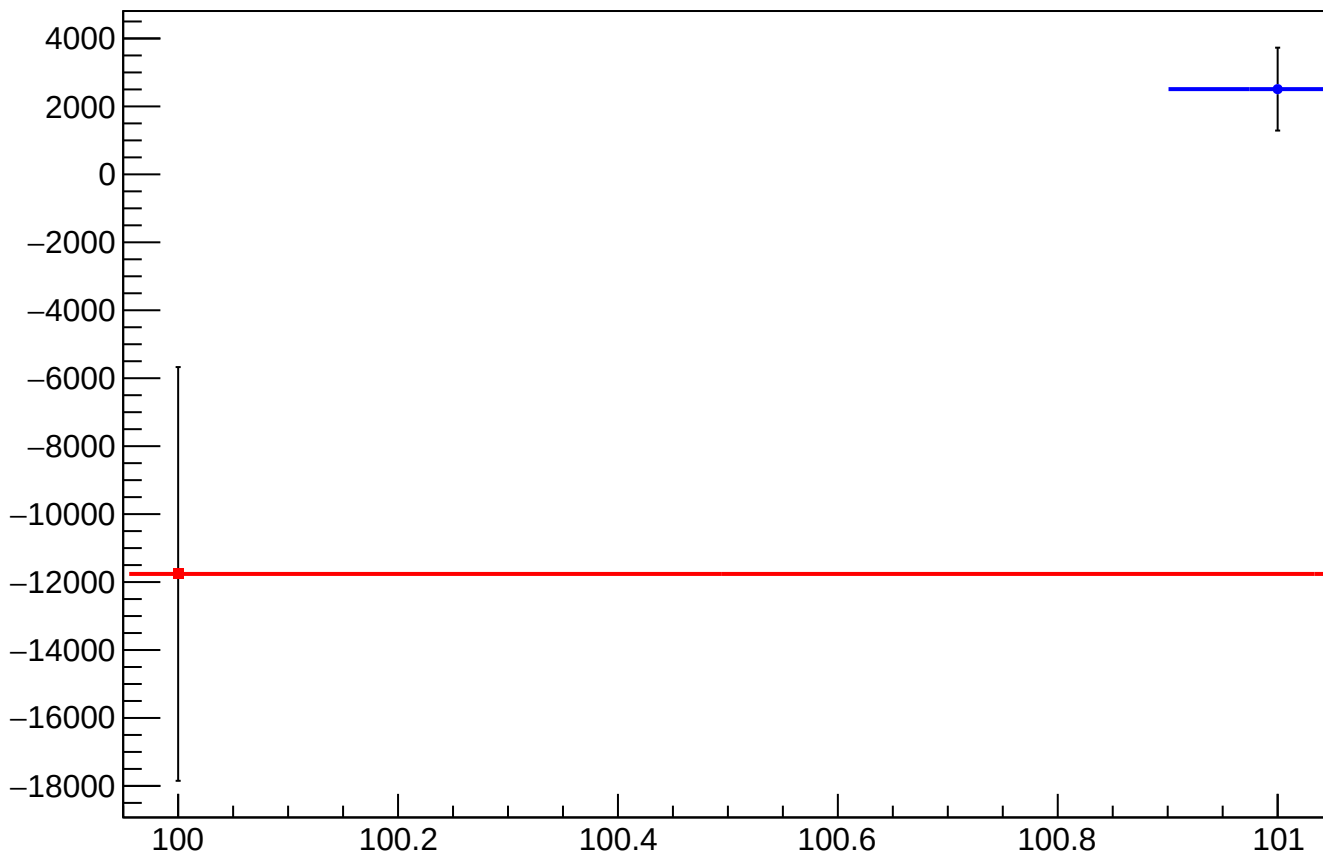
Right: 936.598 $\pm$ 0.780  $\chi^2$ /NDF: 15195.2/1

In: 915.241 $\pm$ 0.799  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 936.598 $\pm$ 0.780  $\chi^2$ /NDF: 15195.2/1

asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 2509.081+/-1219.951  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11760.700+/-6088.736  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

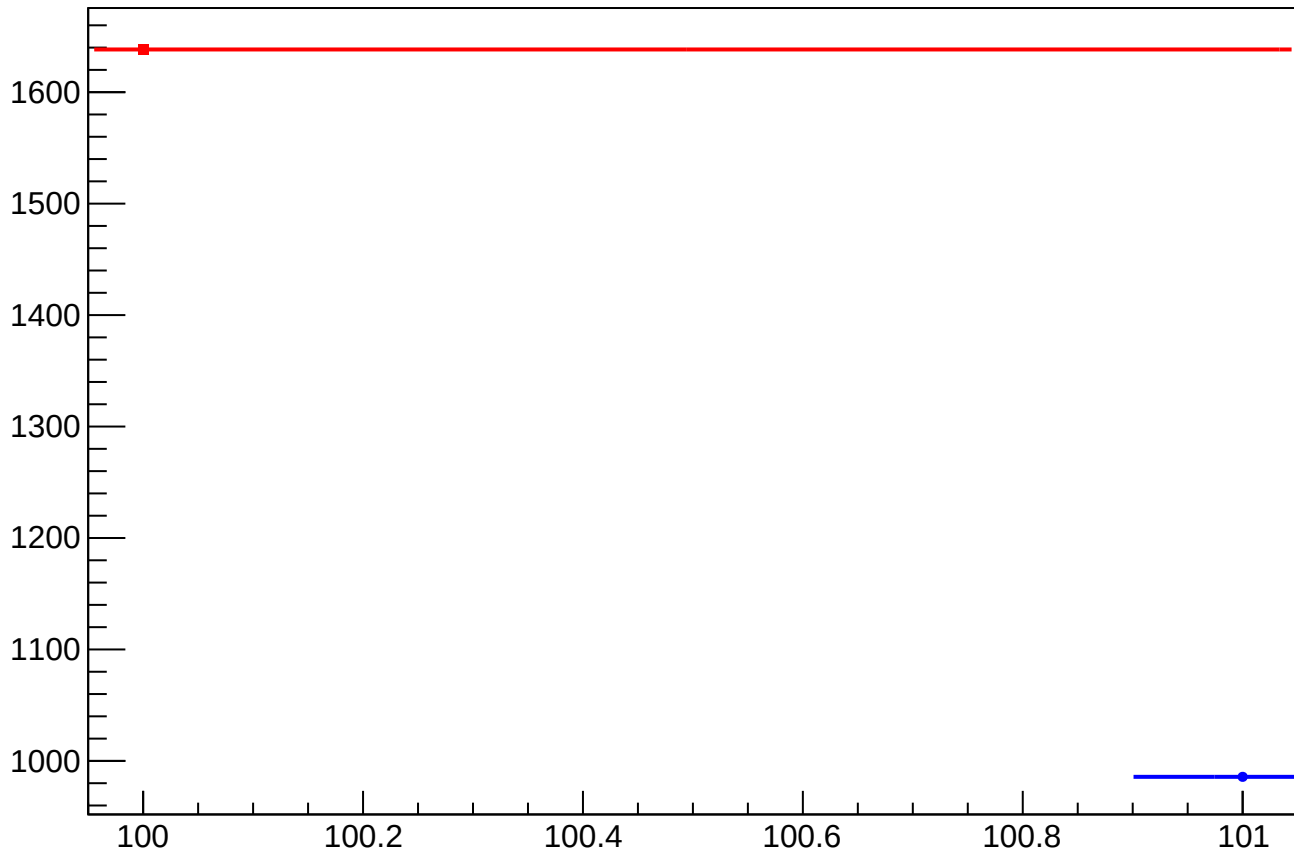
Right: 1958.331+/-1196.177  $\chi^2/\text{NDF}$ : 5.3/1

In: 2509.081+/-1219.951  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1958.331+/-1196.177  $\chi^2/\text{NDF}$ : 5.3/1

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 985.712 $\pm$ 0.863  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1638.323 $\pm$ 4.305  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

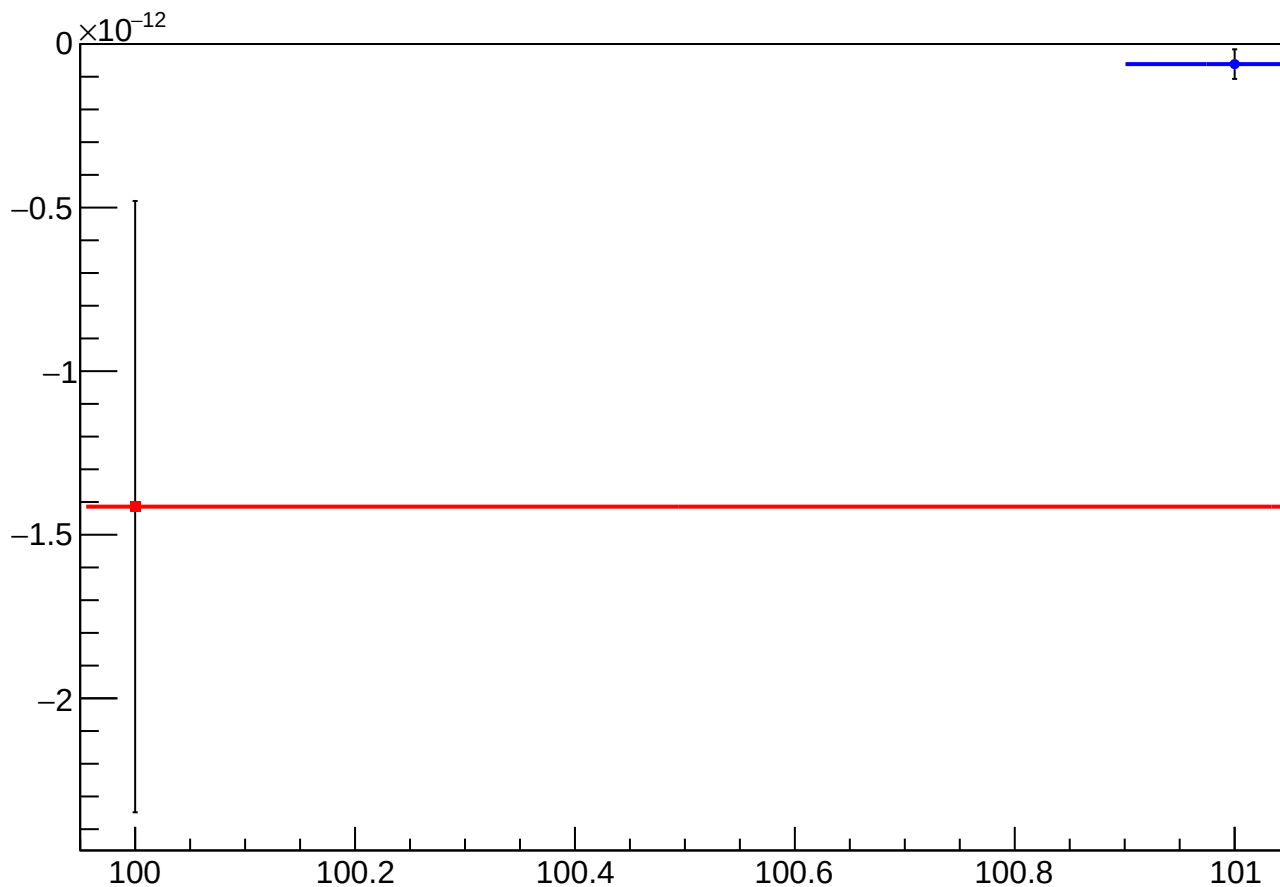
Right: 1010.900 $\pm$ 0.846  $\chi^2$ /NDF: 22089.7/1

In: 985.712 $\pm$ 0.863  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1010.900 $\pm$ 0.846  $\chi^2$ /NDF: 22089.7/1

asym\_sam\_37\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

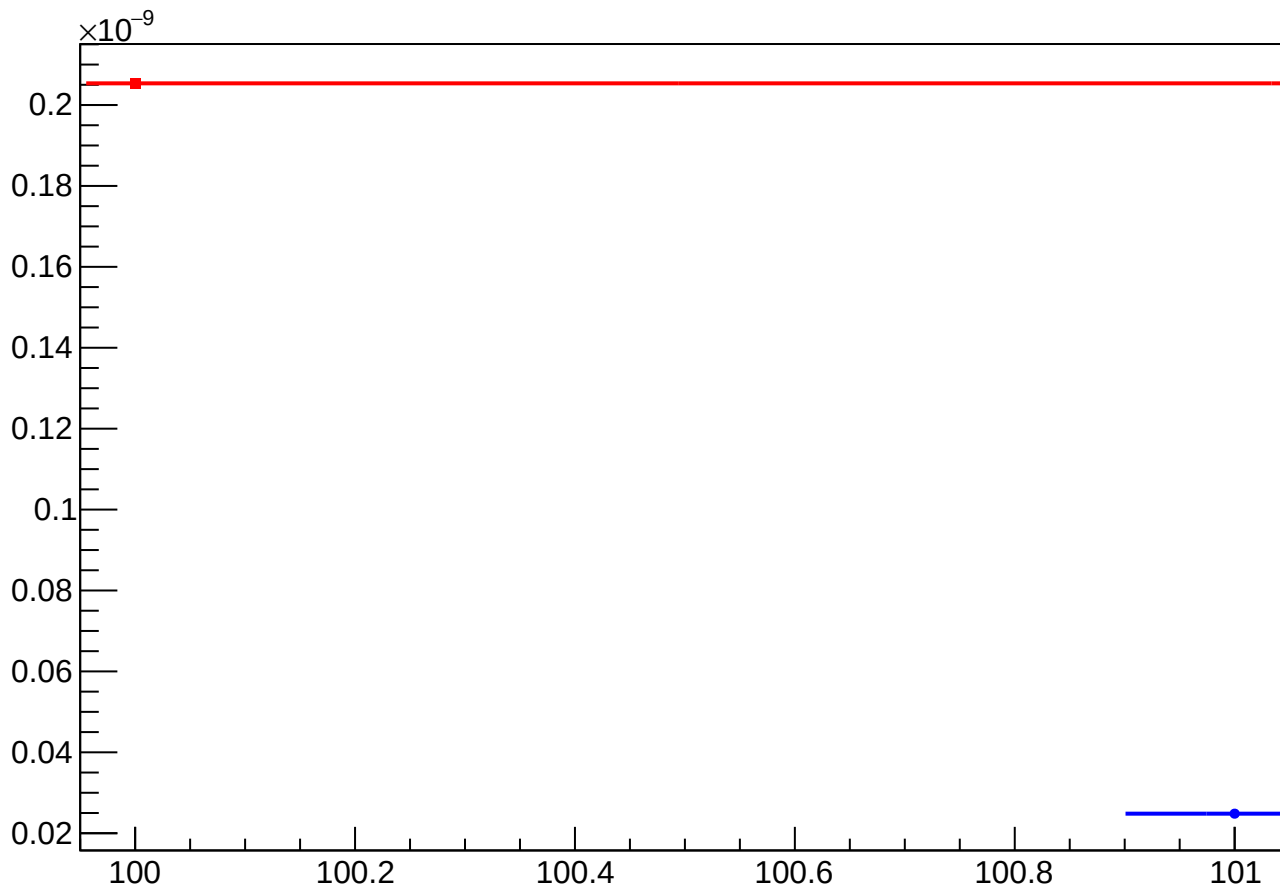
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.1/1

asym\_sam\_37\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

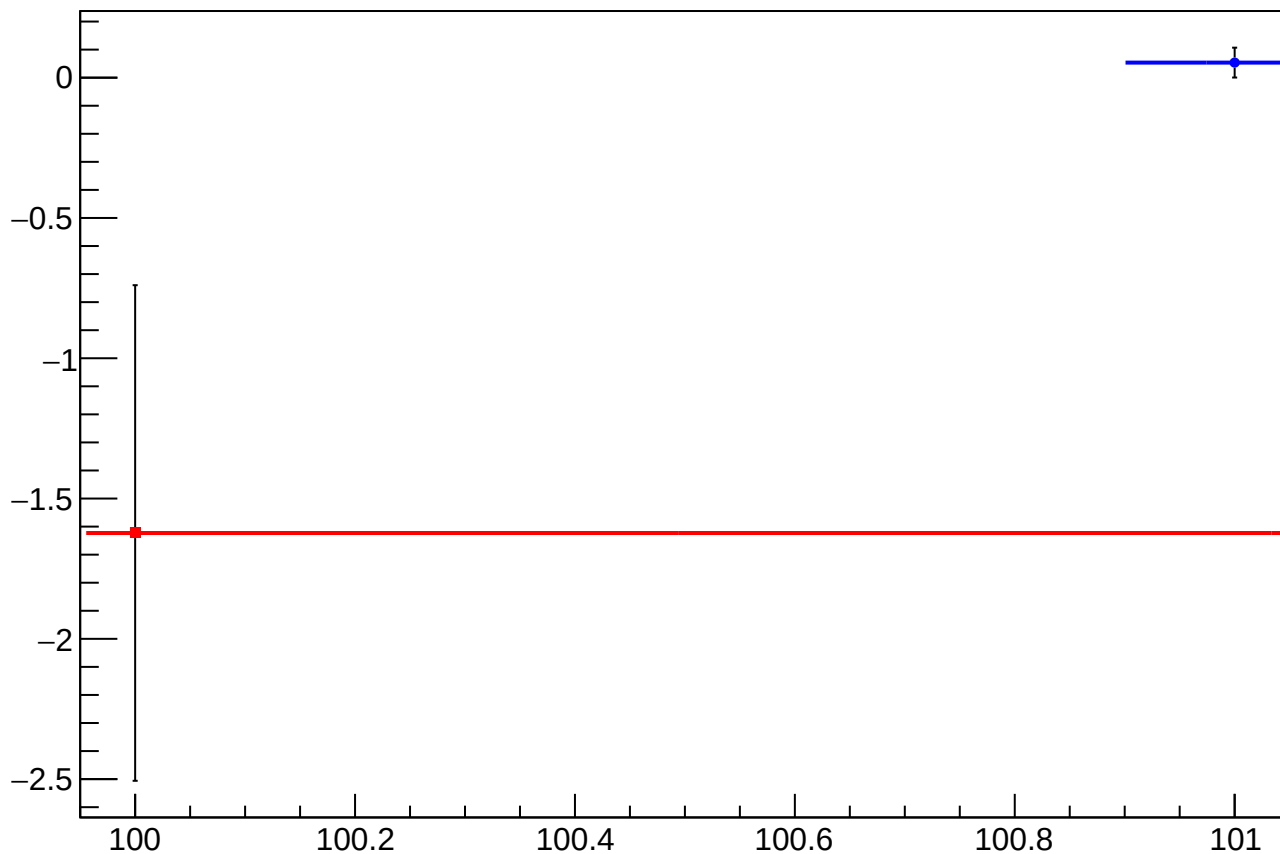
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 74489.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 74489.7/1

asym\_sam\_37\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.054 $\pm$ 0.053  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.623 $\pm$ 0.883  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

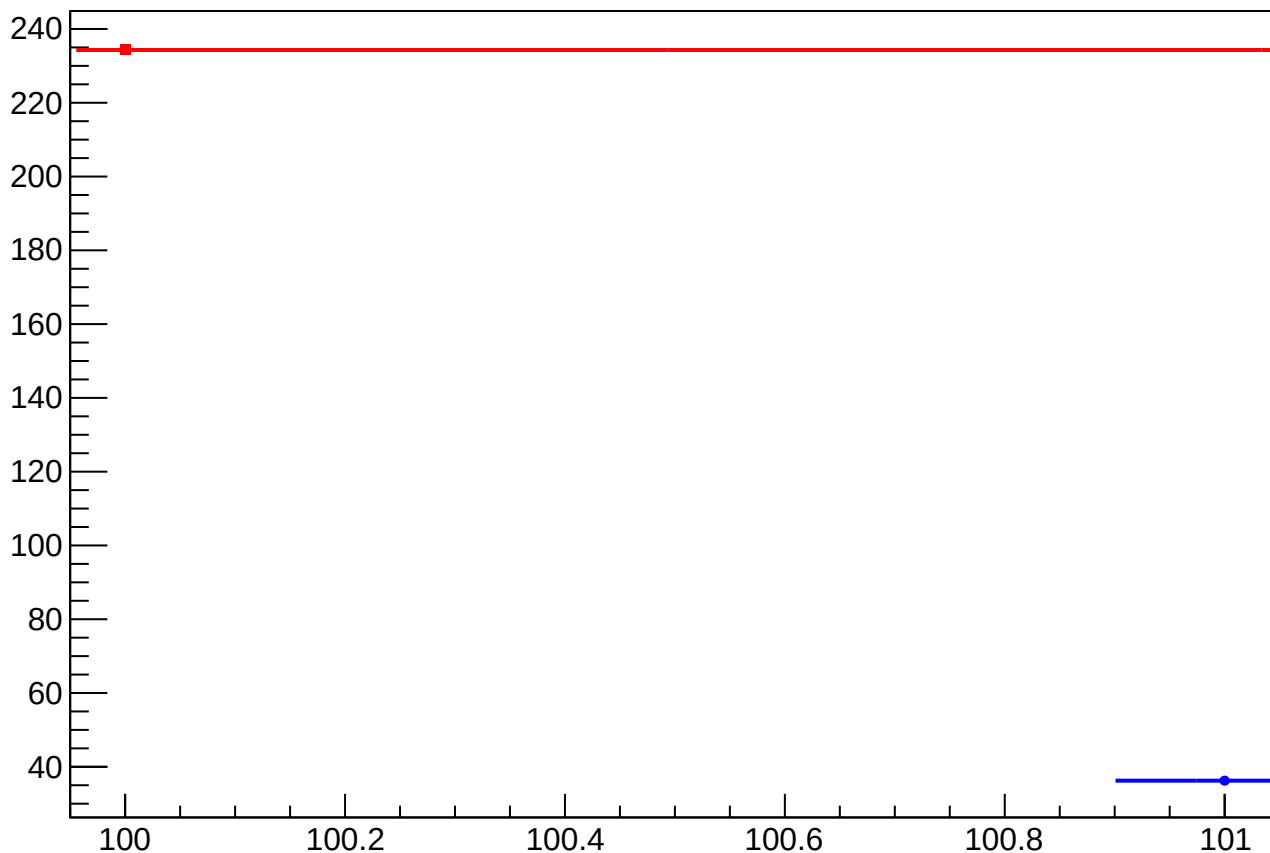
Right: 0.048 $\pm$ 0.053  $\chi^2$ /NDF: 3.6/1

In: 0.054 $\pm$ 0.053  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.048 $\pm$ 0.053  $\chi^2$ /NDF: 3.6/1

asym\_sam\_37\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 36.243+/-0.038  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 234.309+/-0.625  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 36.960+/-0.038  $\chi^2/\text{NDF}$ : 100223.8/1

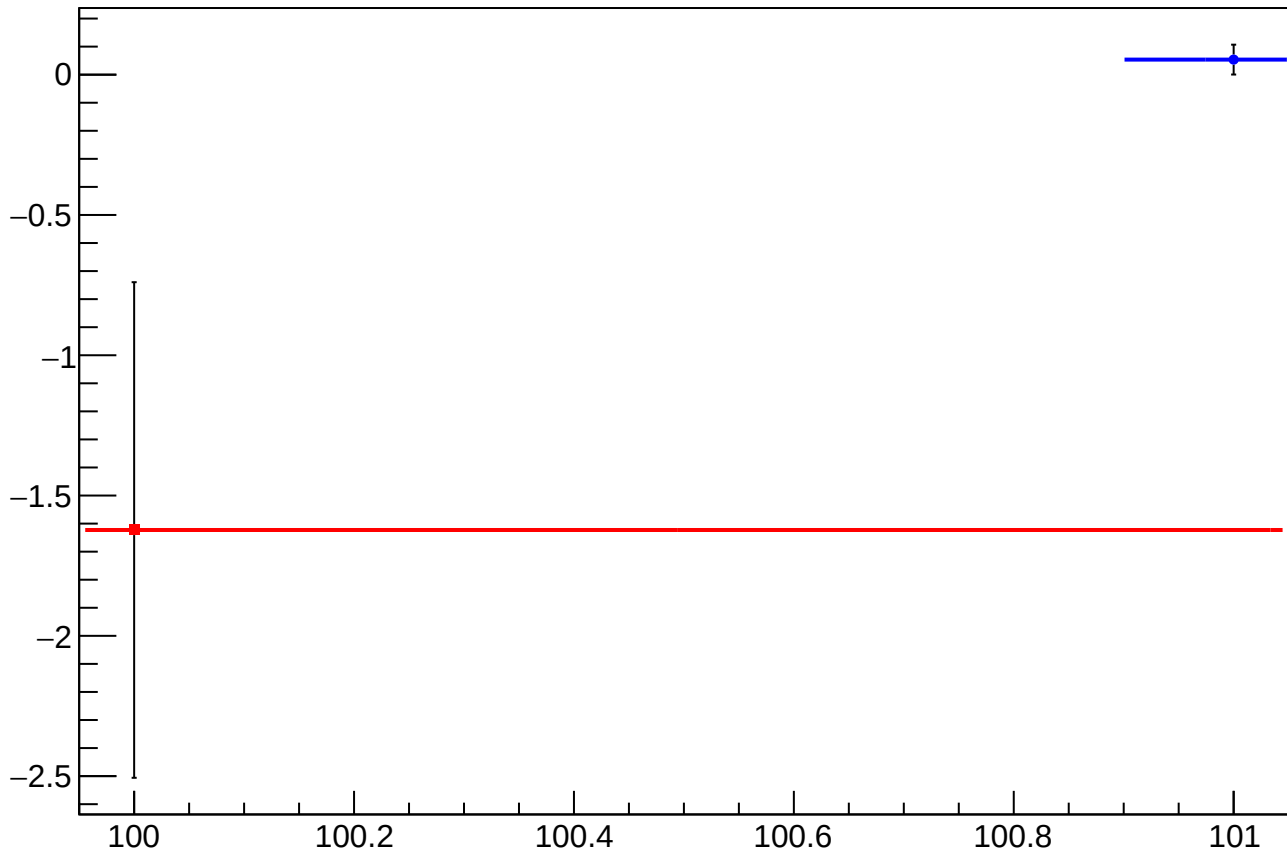
In: 36.243+/-0.038  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.960+/-0.038  $\chi^2/\text{NDF}$ : 100223.8/1



asym\_sam\_37\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.054 $\pm$ 0.053  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.623 $\pm$ 0.883  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

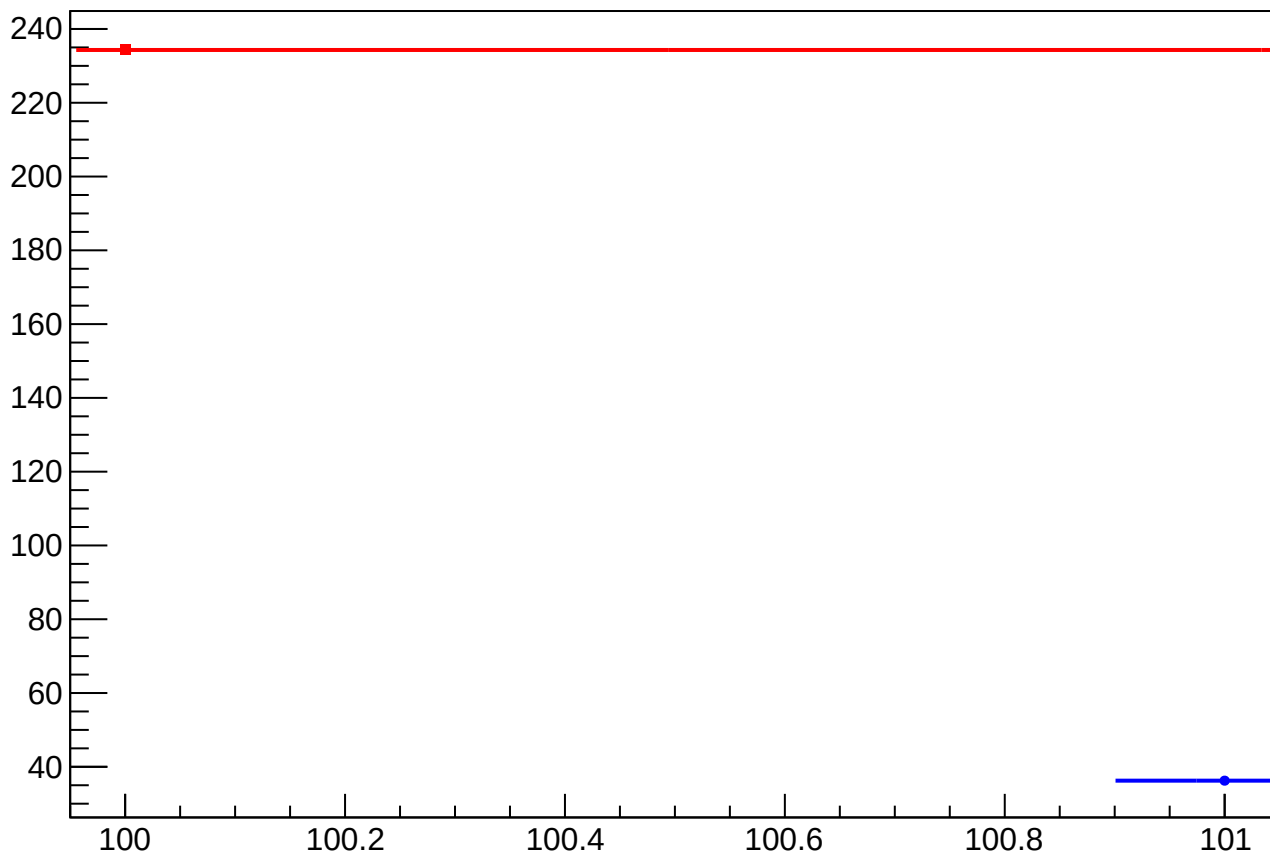
Right: 0.048 $\pm$ 0.053  $\chi^2$ /NDF: 3.6/1

In: 0.054 $\pm$ 0.053  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.048 $\pm$ 0.053  $\chi^2$ /NDF: 3.6/1

asym\_sam\_37\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 36.243+/-0.038  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 234.309+/-0.625  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

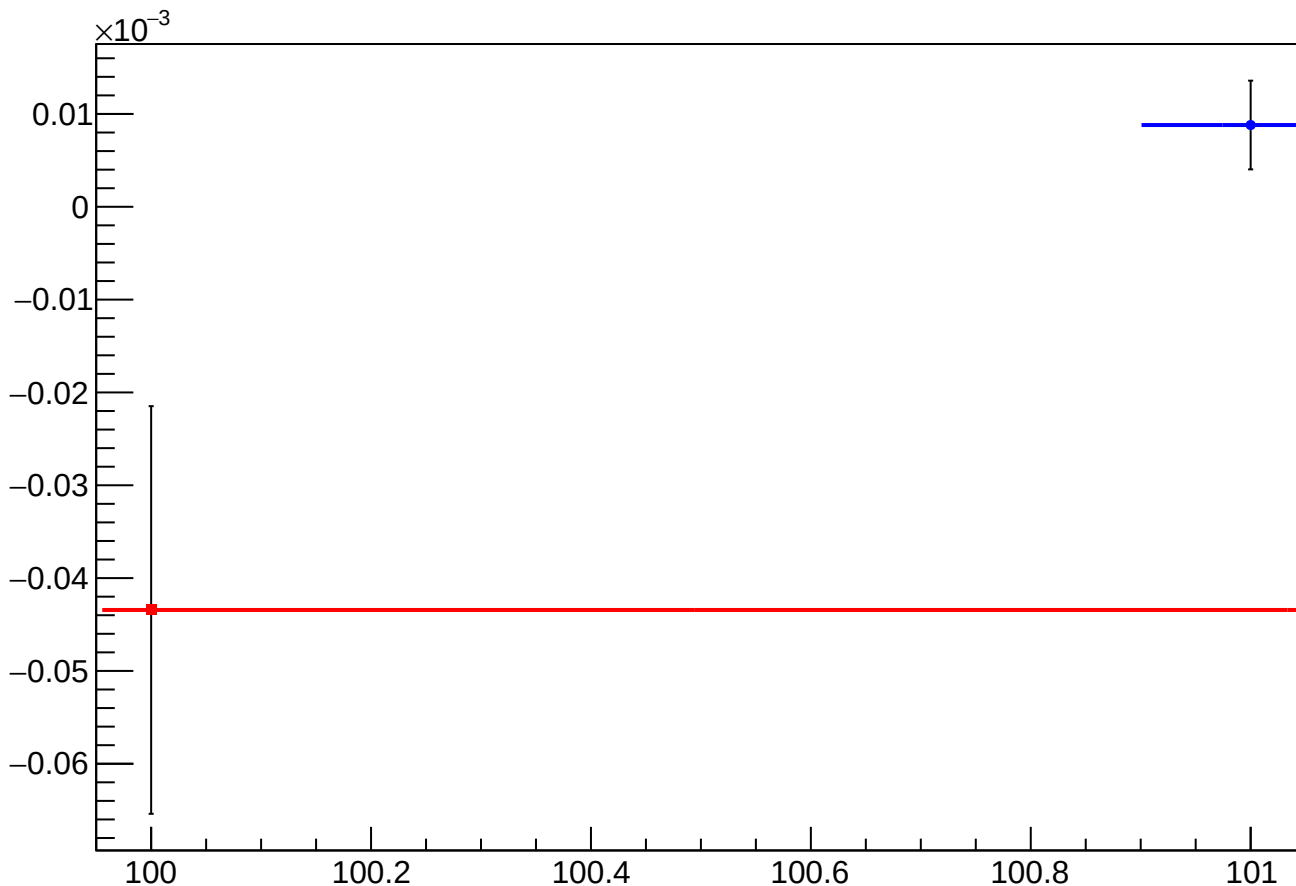
Right: 36.960+/-0.038  $\chi^2/\text{NDF}$ : 100223.8/1

In: 36.243+/-0.038  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.960+/-0.038  $\chi^2/\text{NDF}$ : 100223.8/1

asym\_sam\_37\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

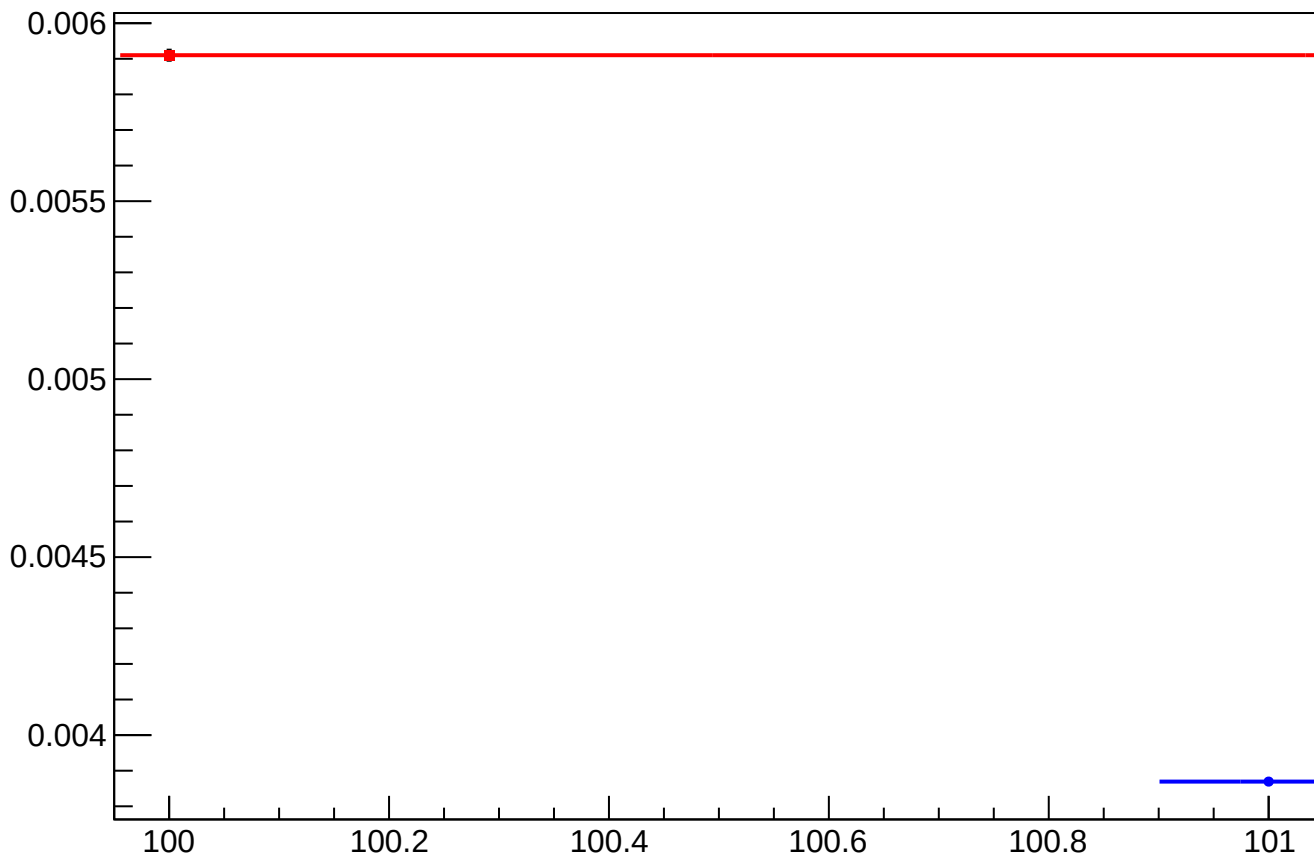
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.4/1

asym\_sam\_37\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

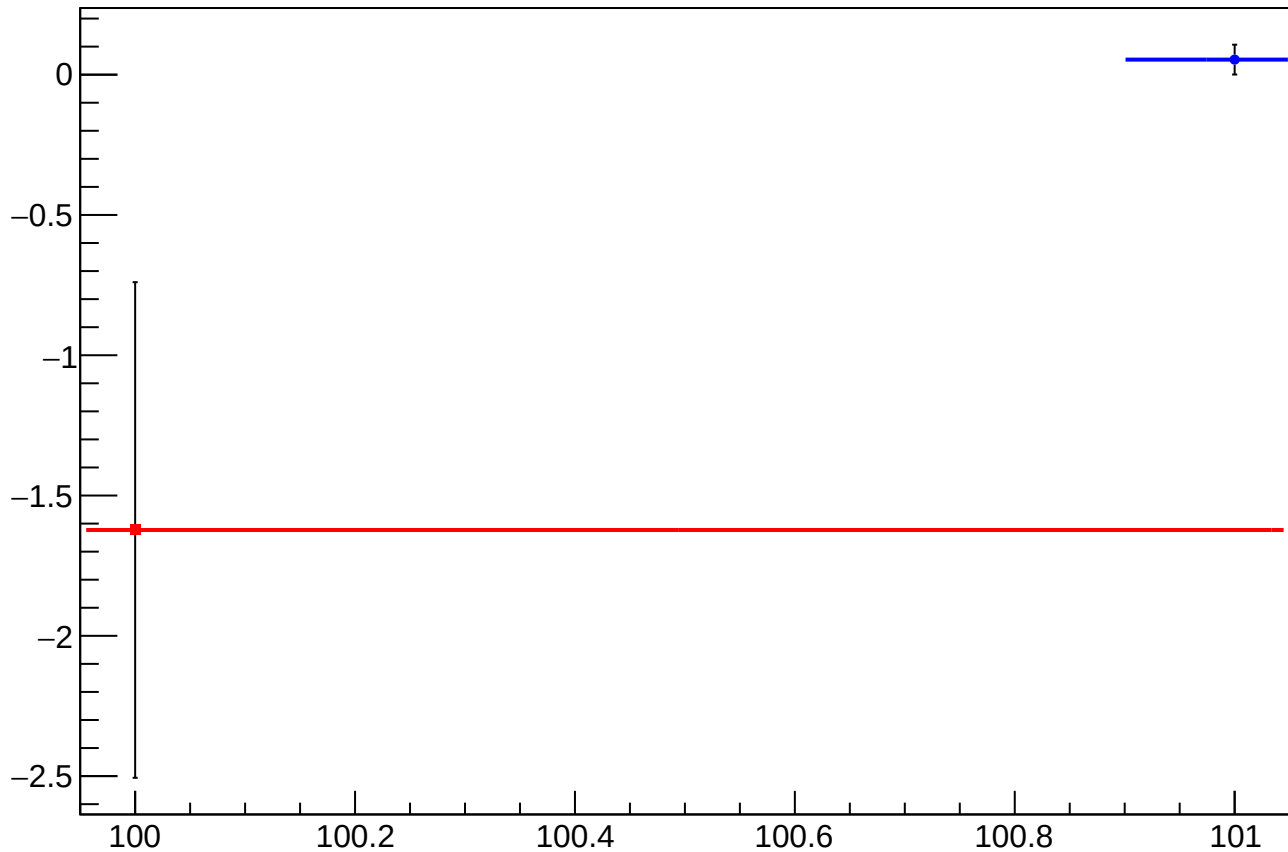
Right: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 16494.3/1

In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 16494.3/1

asym\_sam\_37\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.054 $\pm$ 0.053  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.623 $\pm$ 0.883  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

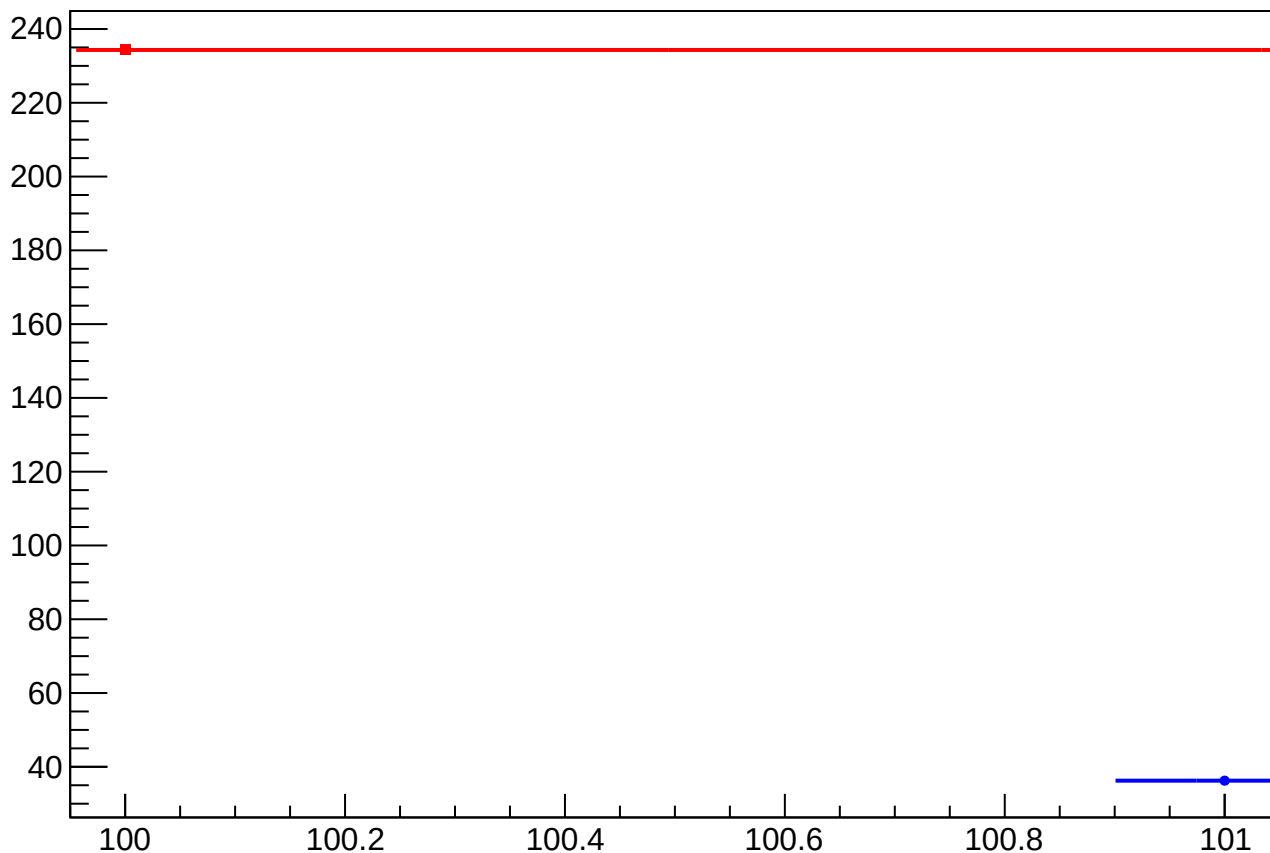
Right: 0.048 $\pm$ 0.053  $\chi^2/\text{NDF}$ : 3.6/1

In: 0.054 $\pm$ 0.053  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.048 $\pm$ 0.053  $\chi^2/\text{NDF}$ : 3.6/1

asym\_sam\_37\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 36.245 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 234.315 $\pm$ 0.625  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

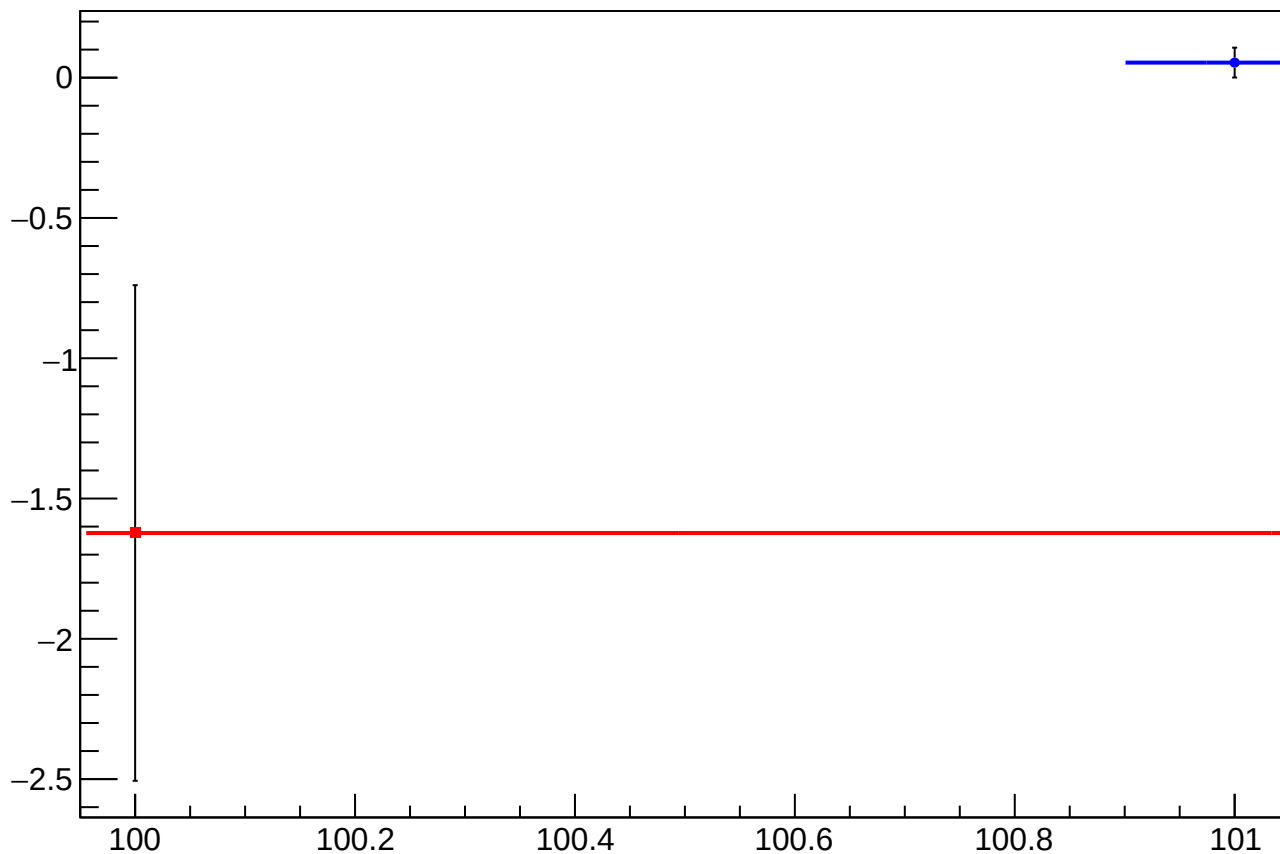
Right: 36.962 $\pm$ 0.038  $\chi^2$ /NDF: 100223.0/1

In: 36.245 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 36.962 $\pm$ 0.038  $\chi^2$ /NDF: 100223.0/1

asym\_sam\_37\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.054 $\pm$ 0.053  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.623 $\pm$ 0.883  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

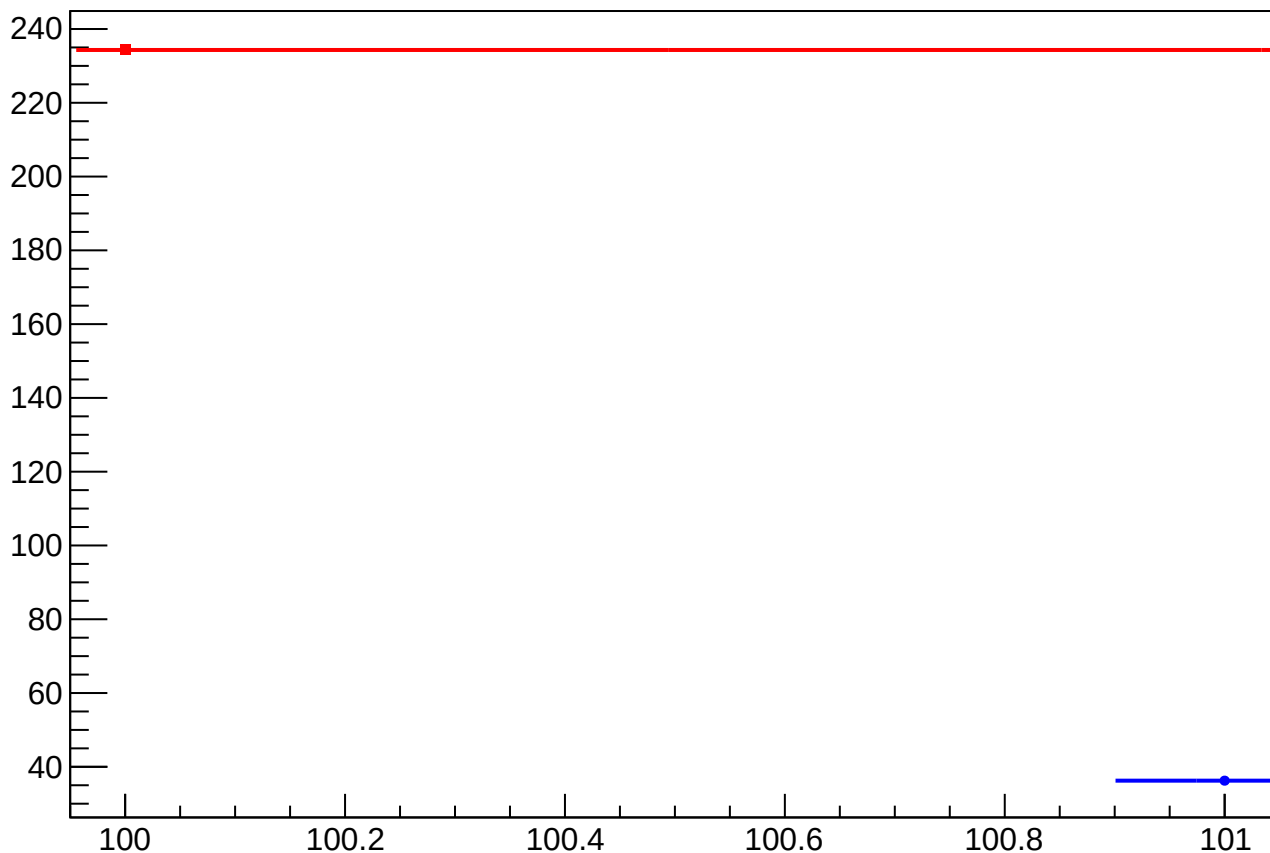
Right: 0.048 $\pm$ 0.053  $\chi^2$ /NDF: 3.6/1

In: 0.054 $\pm$ 0.053  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.048 $\pm$ 0.053  $\chi^2$ /NDF: 3.6/1

asym\_sam\_37\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 36.245 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 234.315 $\pm$ 0.625  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 36.962 $\pm$ 0.038  $\chi^2$ /NDF: 100223.0/1

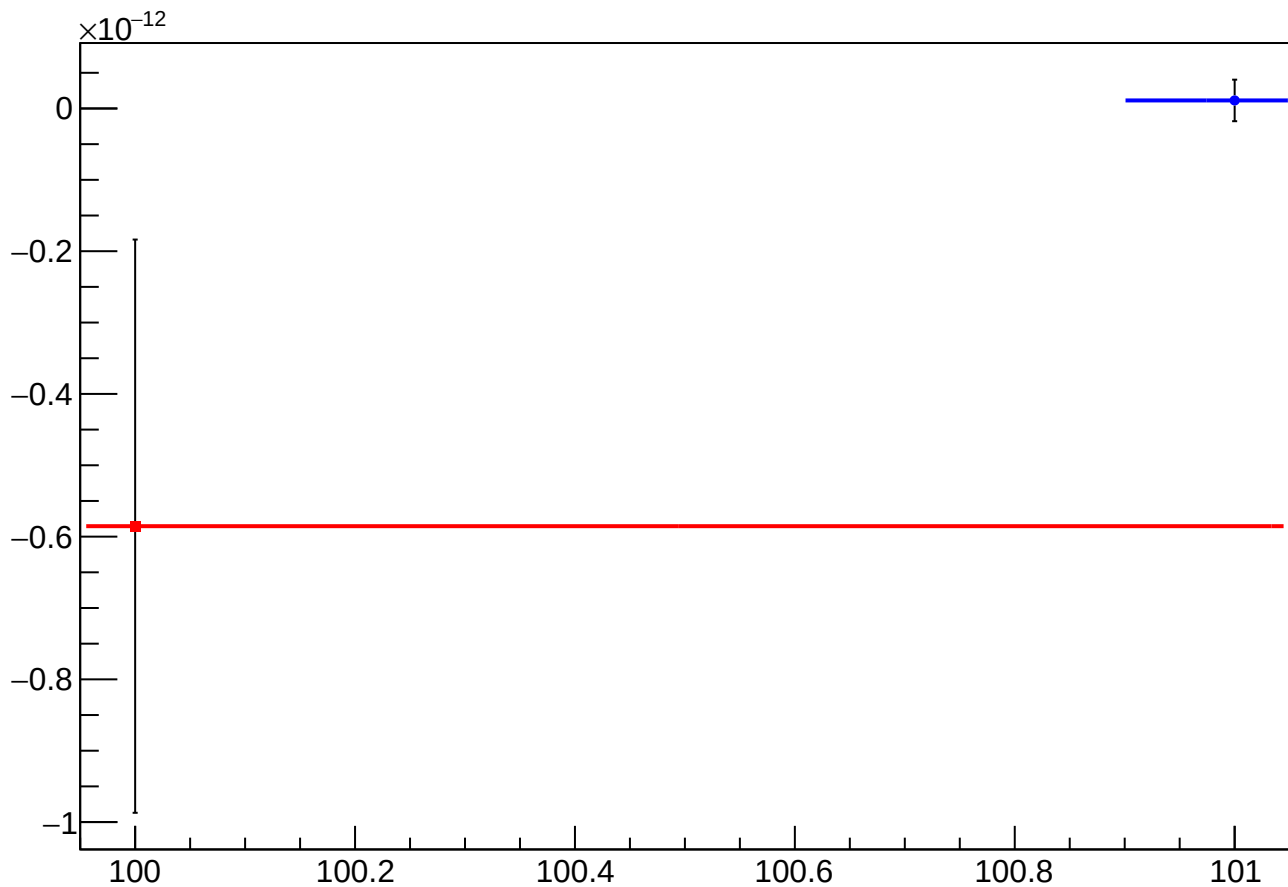
In: 36.245 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 36.962 $\pm$ 0.038  $\chi^2$ /NDF: 100223.0/1



asym\_sam\_37\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

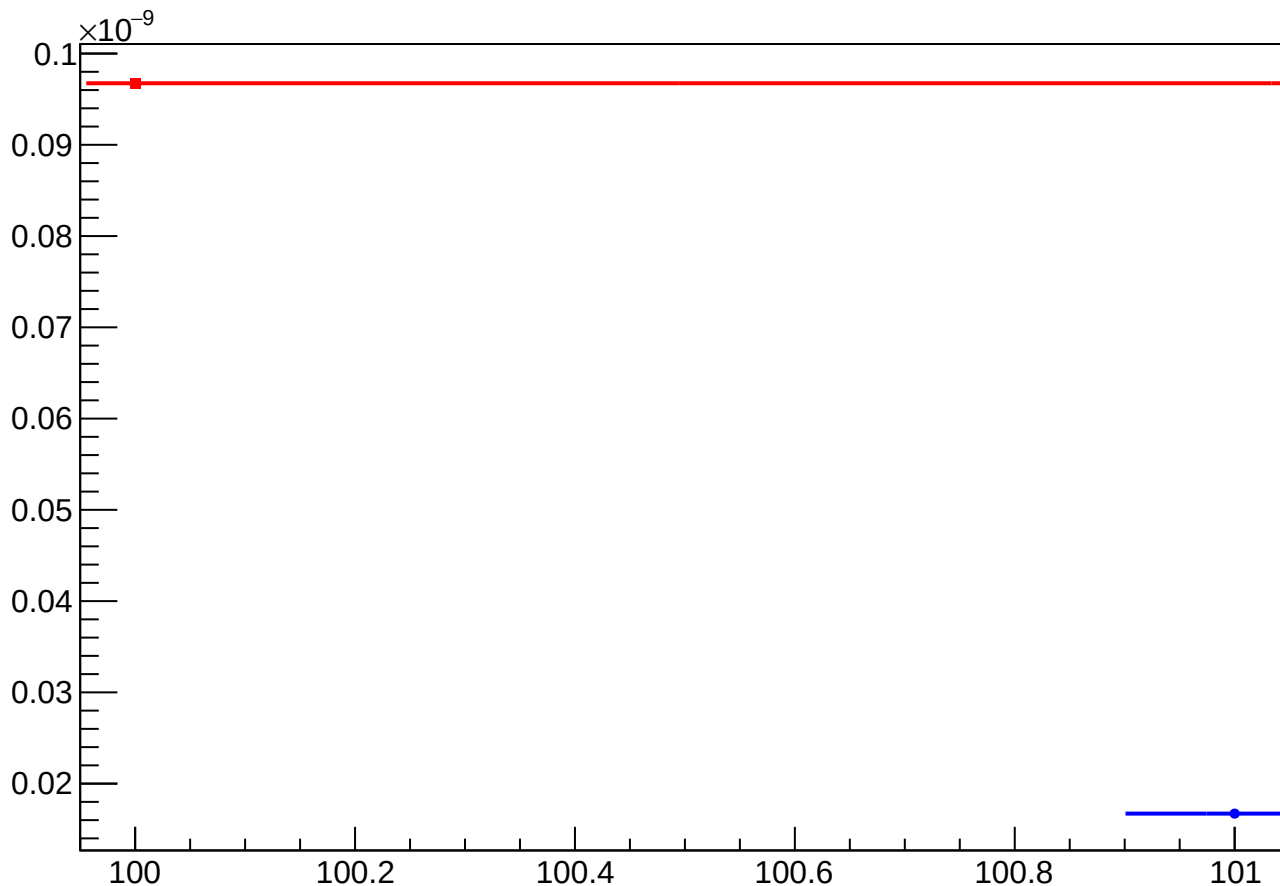
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

asym\_sam\_37\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

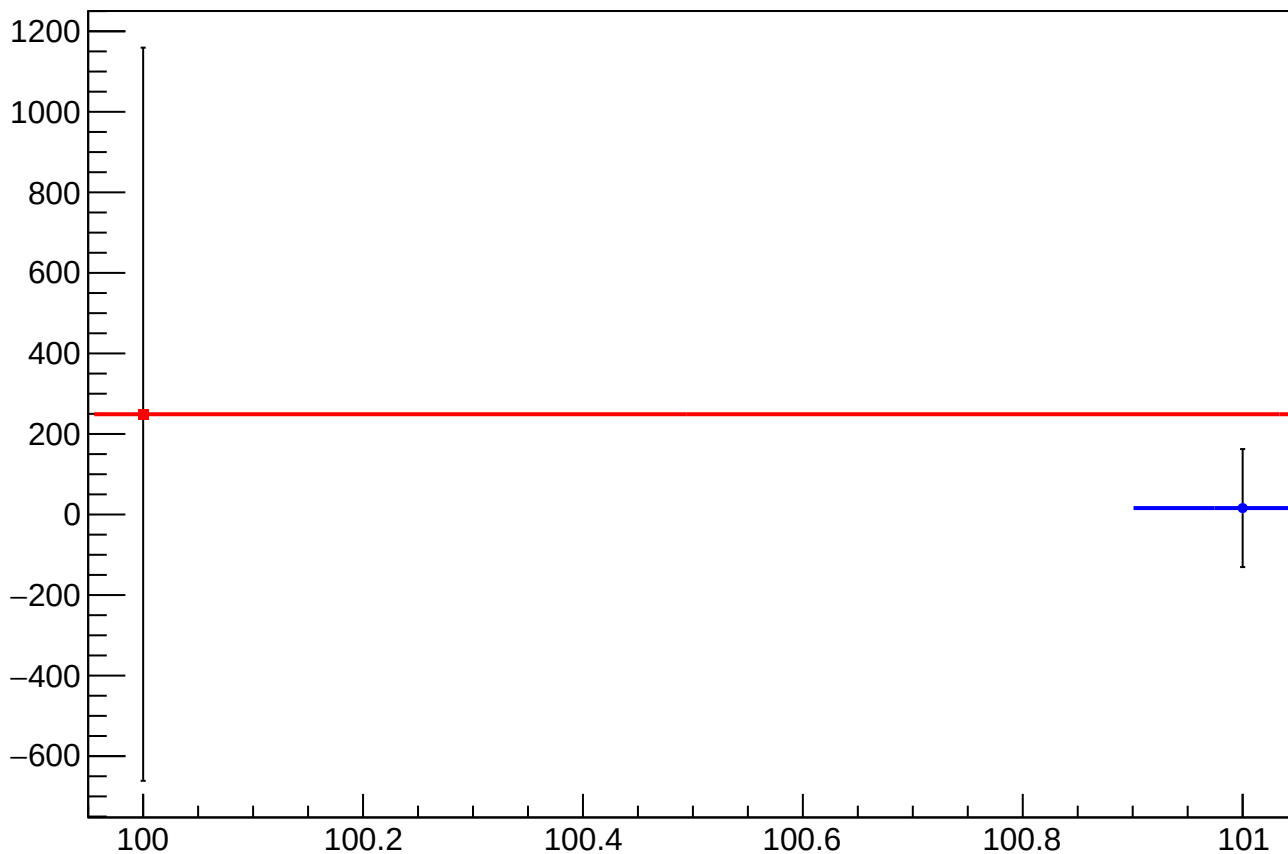
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 78985.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 78985.6/1

reg\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 15.987+/-146.544  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 249.018+/-910.265  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

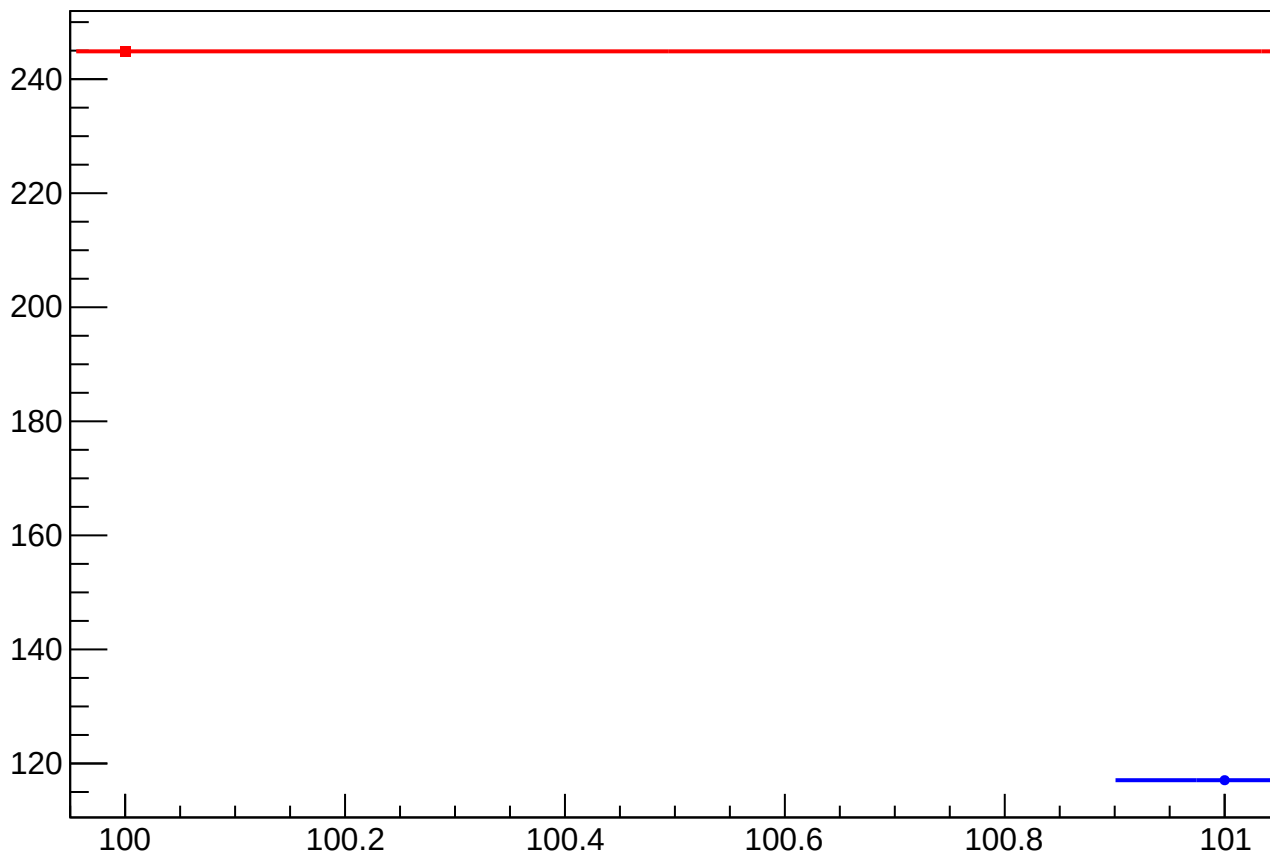
Right: 21.874+/-144.681  $\chi^2/\text{NDF}$ : 0.1/1

In: 15.987+/-146.544  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.874+/-144.681  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 117.067 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 244.876 $\pm$ 0.644  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

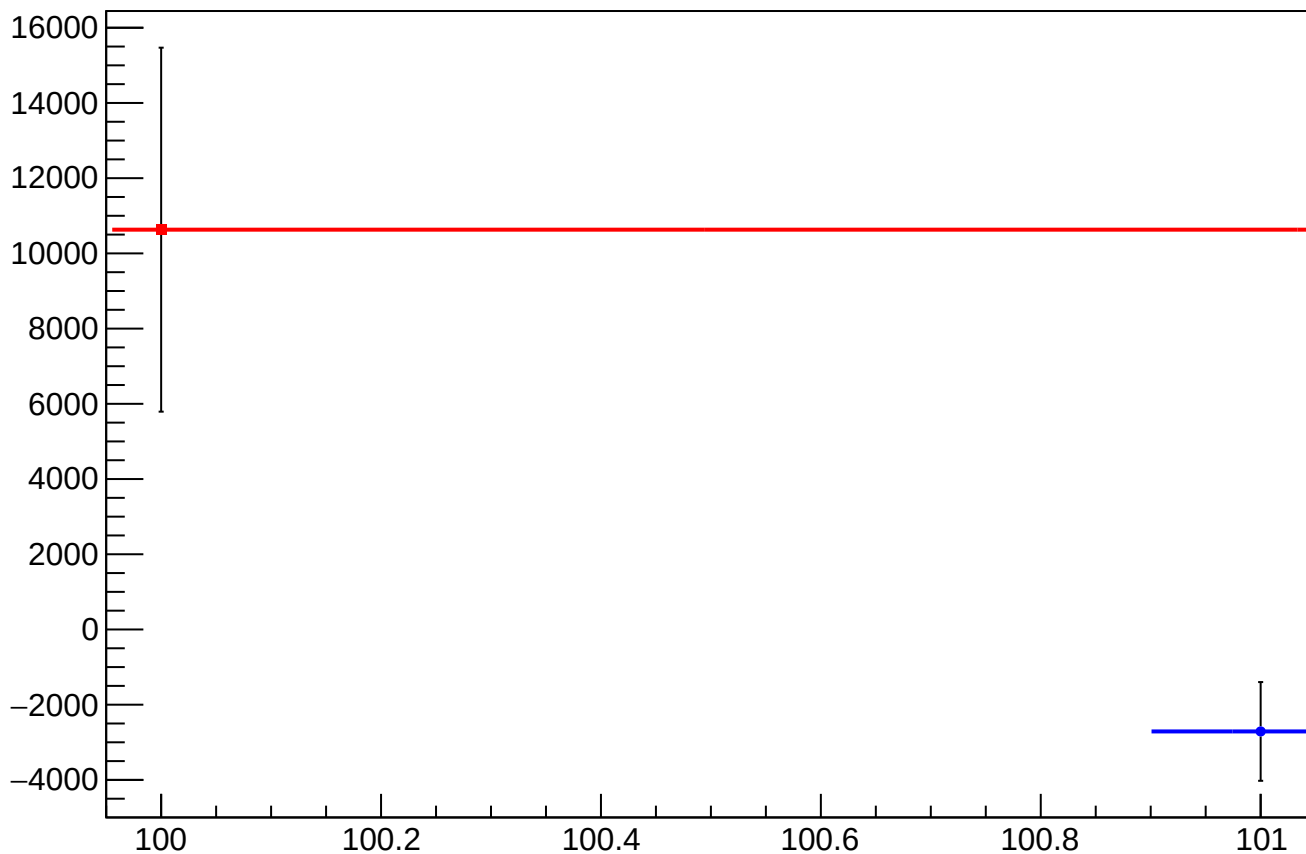
Right: 120.296 $\pm$ 0.102  $\chi^2$ /NDF: 38432.8/1

In: 117.067 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.296 $\pm$ 0.102  $\chi^2$ /NDF: 38432.8/1

asym\_sam\_48\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -2711.118+/-1312.612  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10630.825+/-4839.267  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

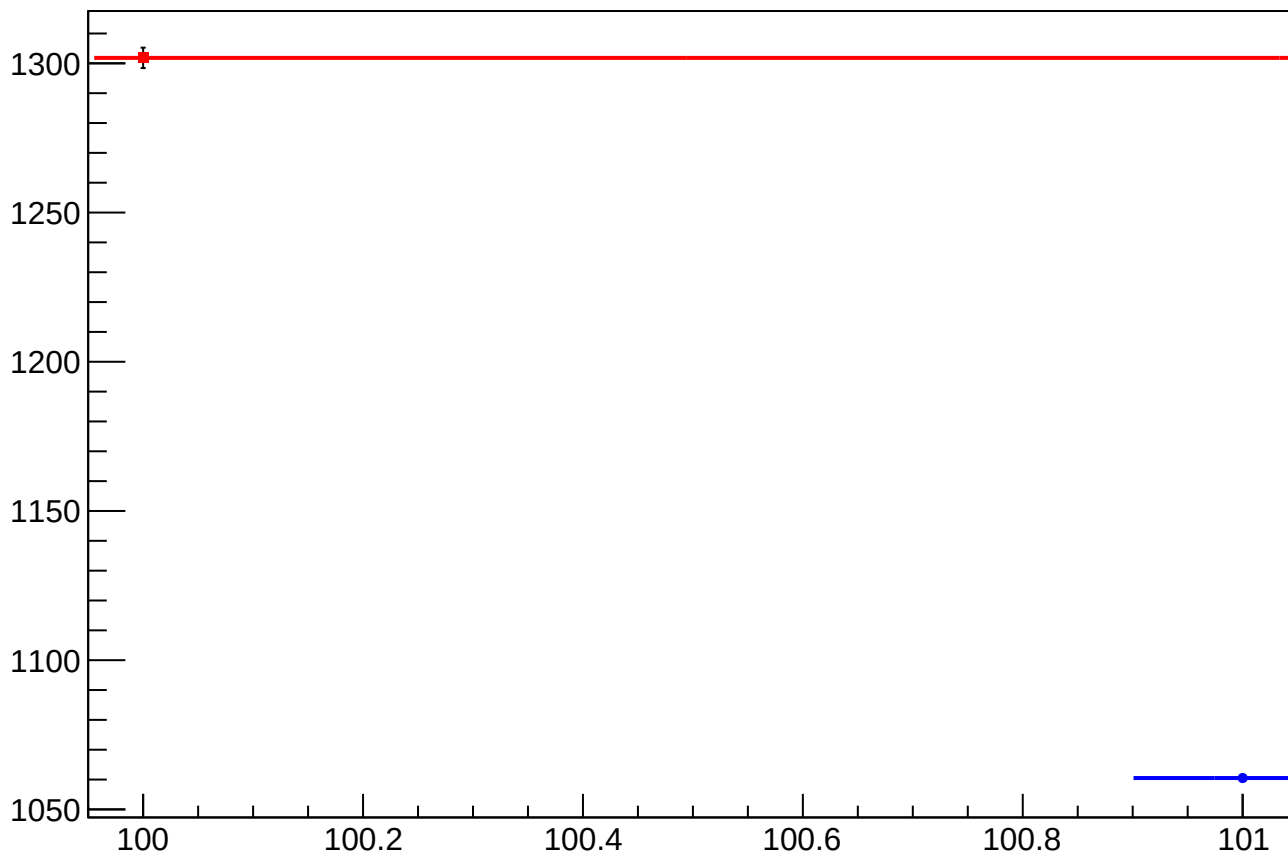
Right: -1796.792+/-1266.837  $\chi^2/\text{NDF}$ : 7.1/1

In: -2711.118+/-1312.612  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1796.792+/-1266.837  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam\_48\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1060.513 $\pm$ 0.928  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1301.827 $\pm$ 3.422  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

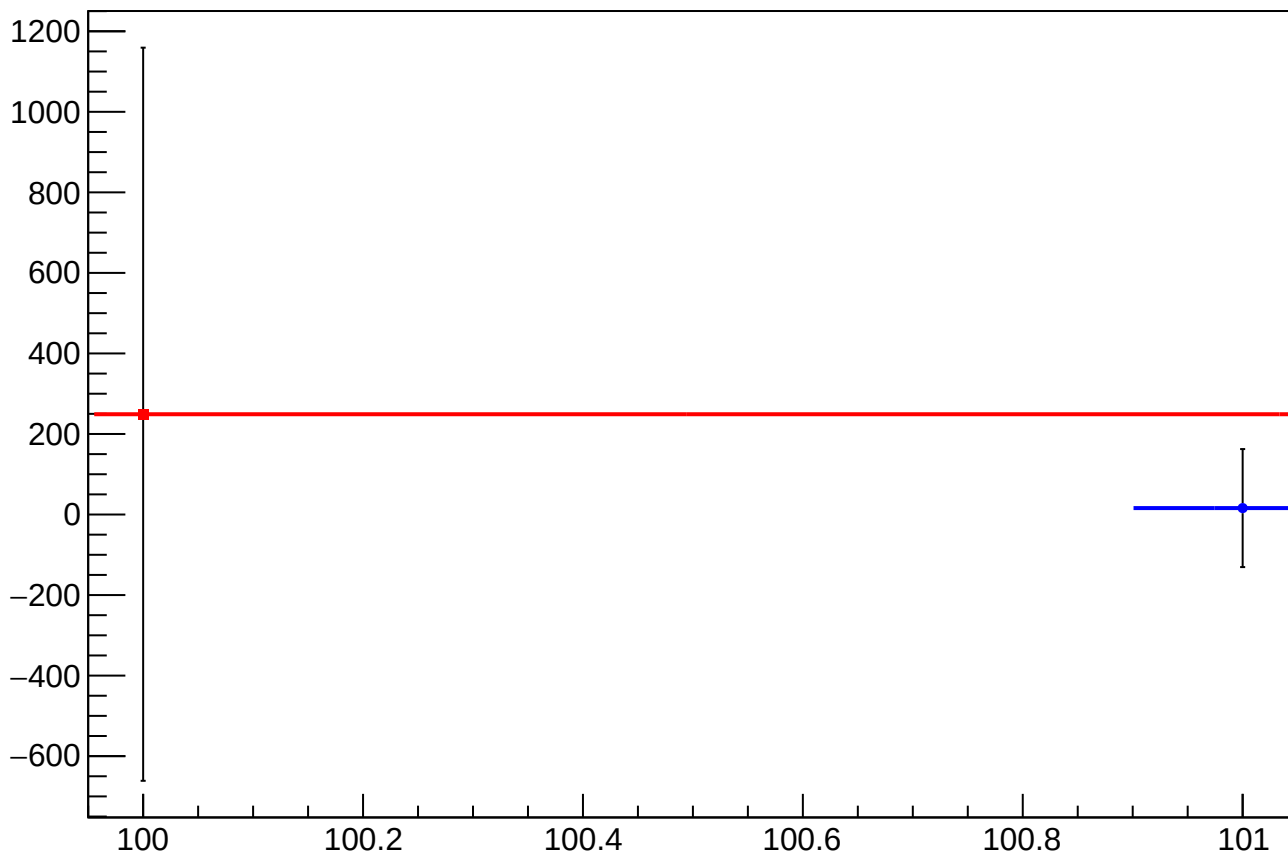
Right: 1077.050 $\pm$ 0.896  $\chi^2$ /NDF: 4632.4/1

In: 1060.513 $\pm$ 0.928  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1077.050 $\pm$ 0.896  $\chi^2$ /NDF: 4632.4/1

cor\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 15.987+/-146.544  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 249.033+/-910.265  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

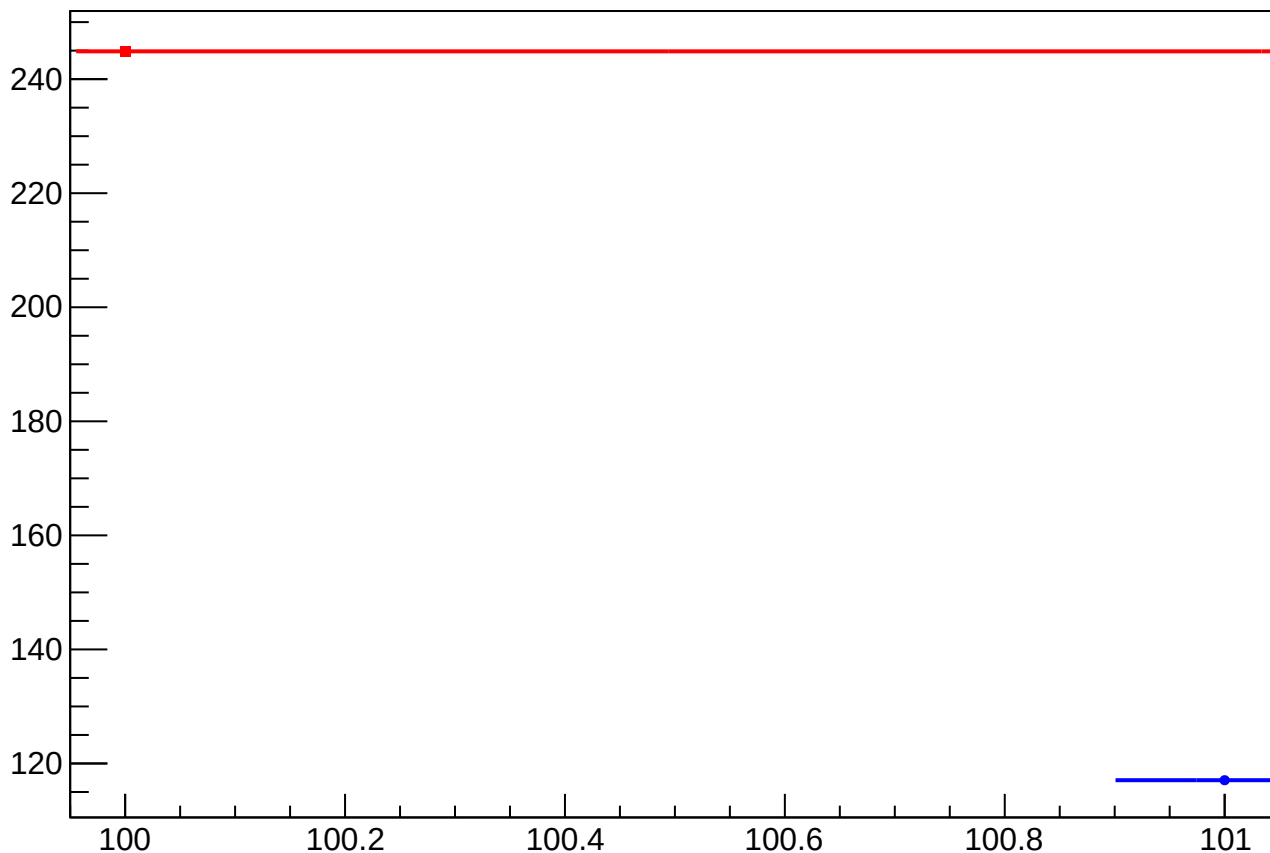
Right: 21.875+/-144.681  $\chi^2/\text{NDF}$ : 0.1/1

In: 15.987+/-146.544  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.875+/-144.681  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 117.067 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 244.876 $\pm$ 0.644  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 120.296 $\pm$ 0.102  $\chi^2$ /NDF: 38432.8/1

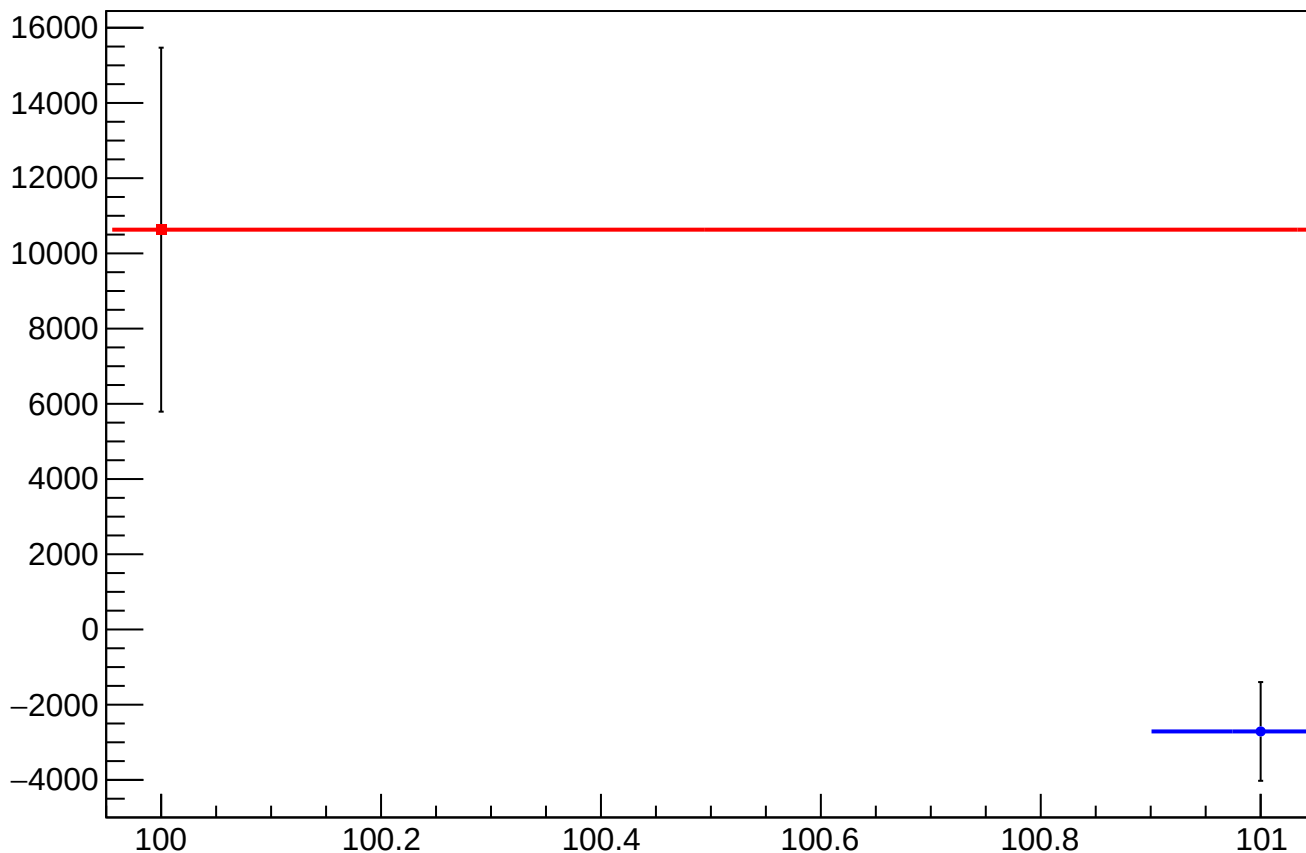
In: 117.067 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.296 $\pm$ 0.102  $\chi^2$ /NDF: 38432.8/1



asym\_sam\_48\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2711.123+/-1312.611  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10630.838+/-4839.269  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

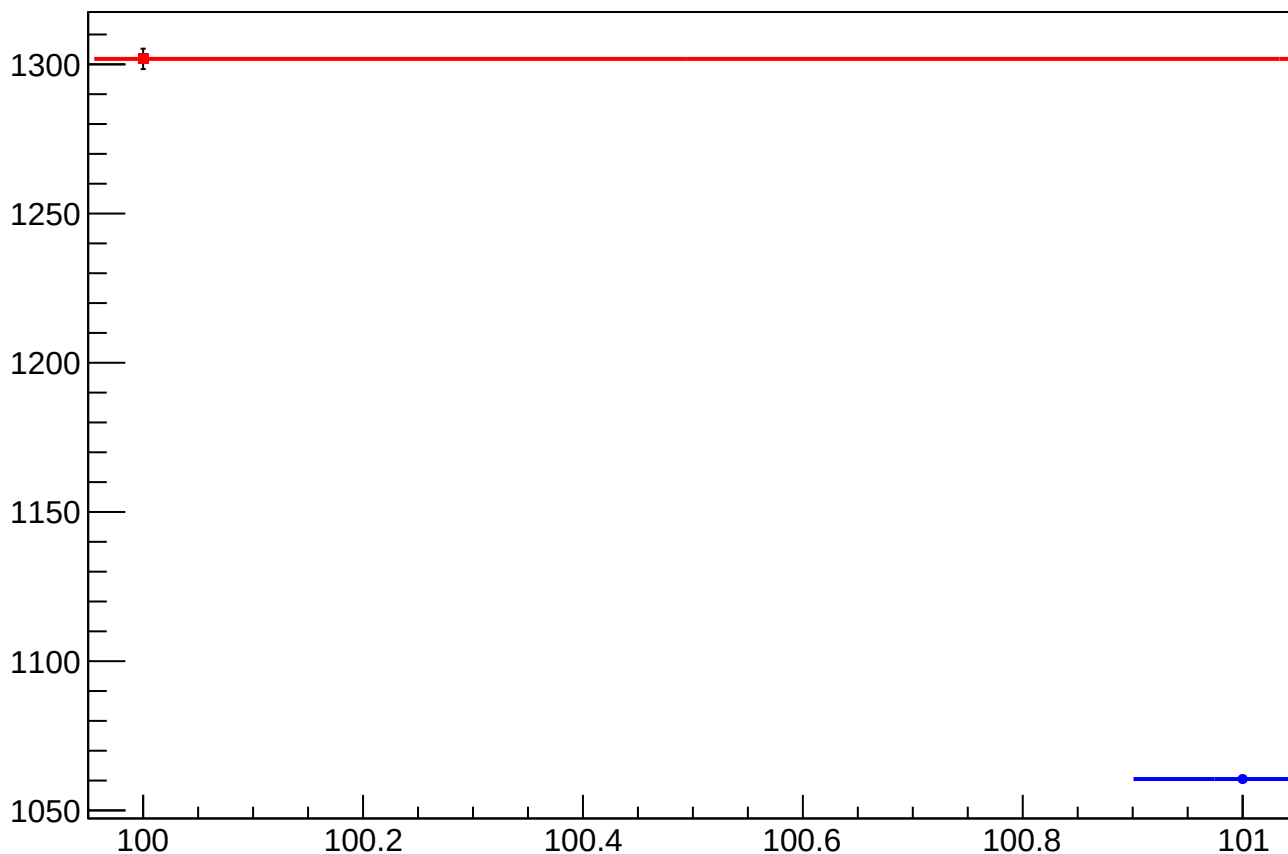
Right: -1796.797+/-1266.836  $\chi^2/\text{NDF}$ : 7.1/1

In: -2711.123+/-1312.611  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1796.797+/-1266.836  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam\_48\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1060.512 $\pm$ 0.928  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 1301.828 $\pm$ 3.422  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

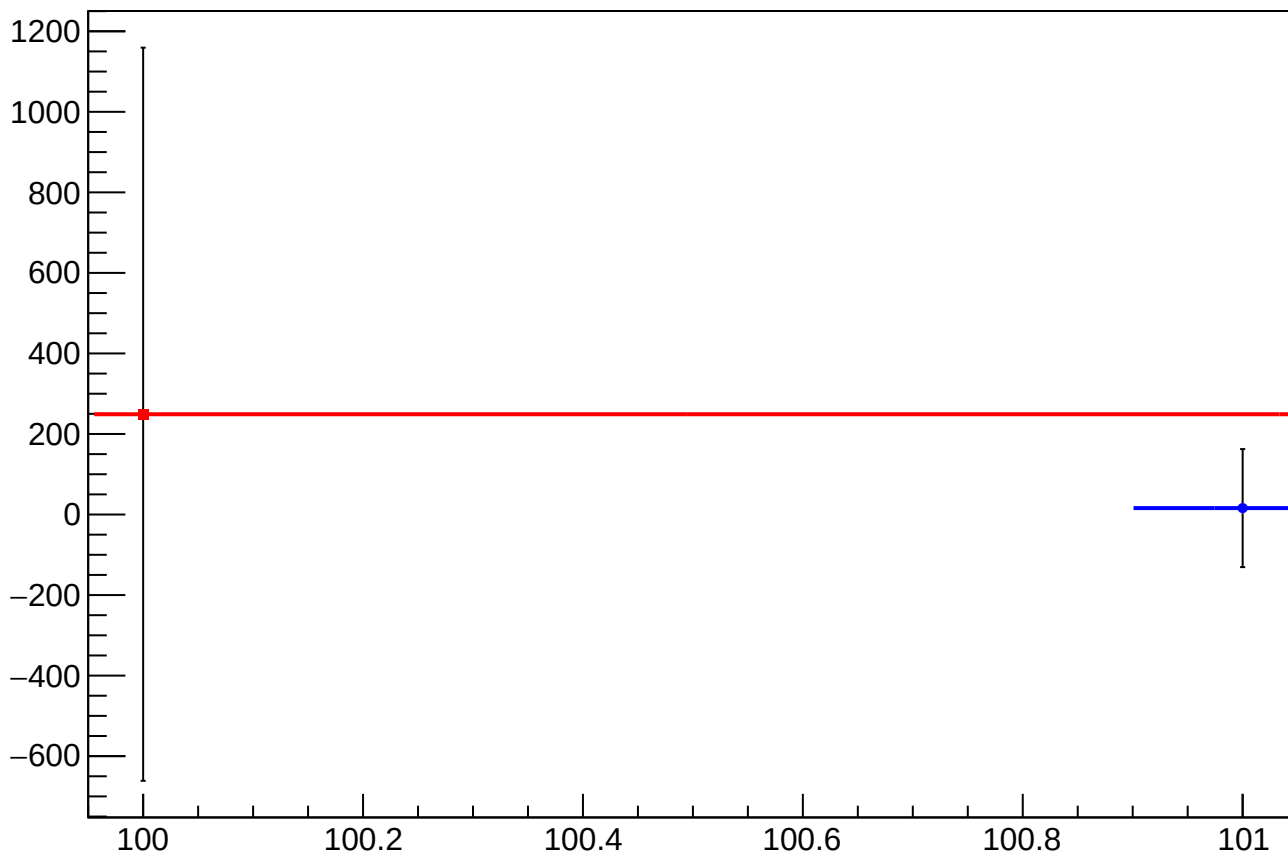
Right: 1077.050 $\pm$ 0.896  $\chi^2/\text{NDF}$ : 4632.4/1

In: 1060.512 $\pm$ 0.928  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 1077.050 $\pm$ 0.896  $\chi^2/\text{NDF}$ : 4632.4/1

eigen\_cor\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 15.987+/-146.544  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 249.033+/-910.265  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

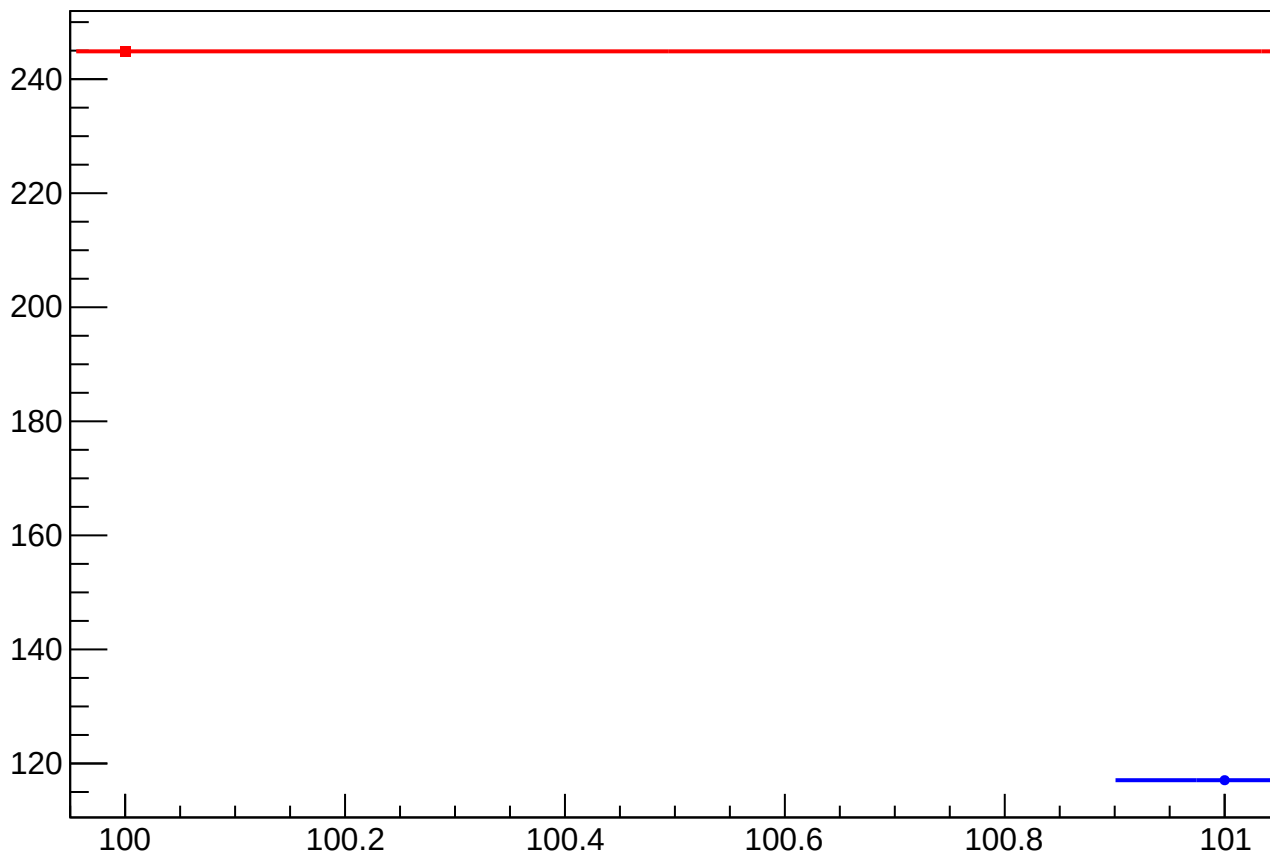
Right: 21.875+/-144.681  $\chi^2/\text{NDF}$ : 0.1/1

In: 15.987+/-146.544  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.875+/-144.681  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 117.067 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 244.876 $\pm$ 0.644  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

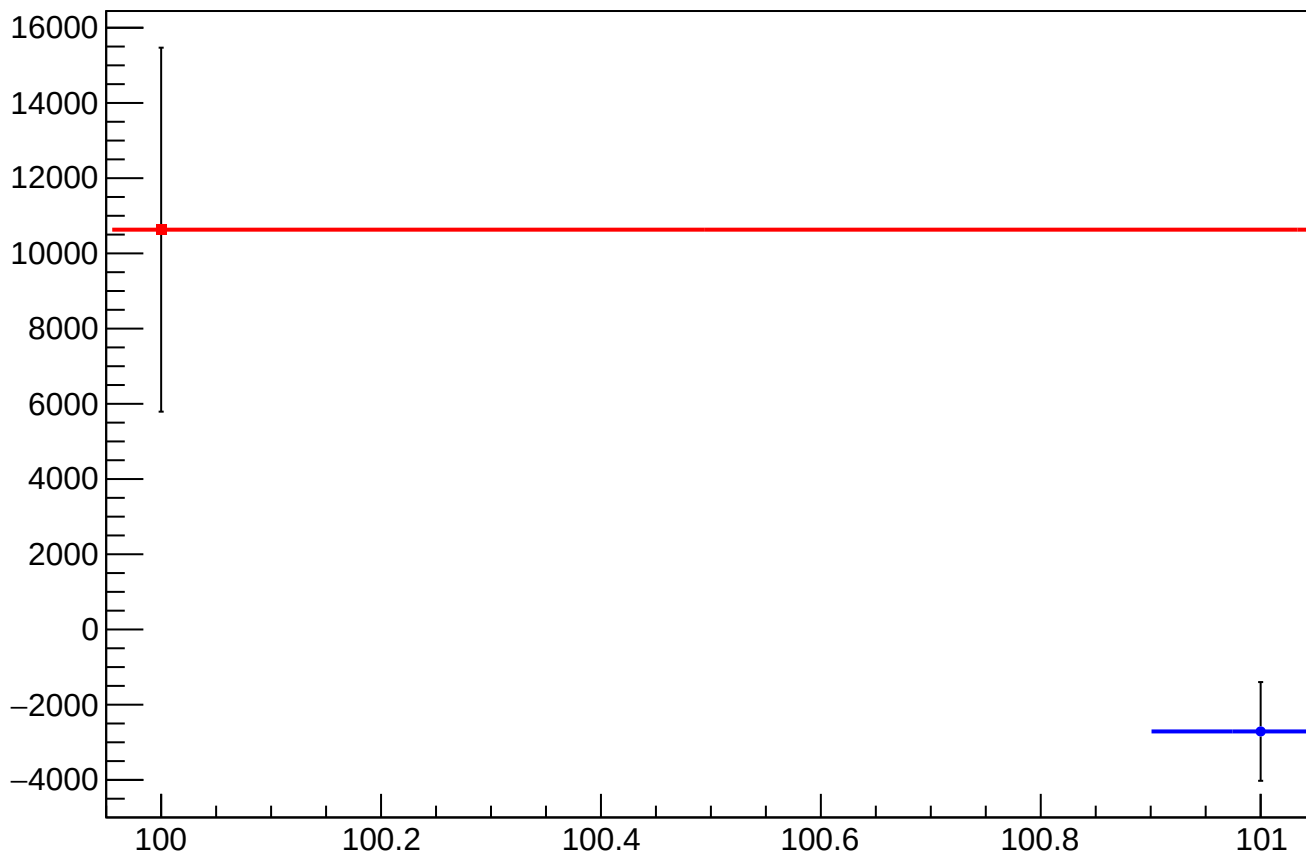
Right: 120.296 $\pm$ 0.102  $\chi^2$ /NDF: 38432.8/1

In: 117.067 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.296 $\pm$ 0.102  $\chi^2$ /NDF: 38432.8/1

asym\_sam\_48\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2711.123+/-1312.611  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10630.838+/-4839.269  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

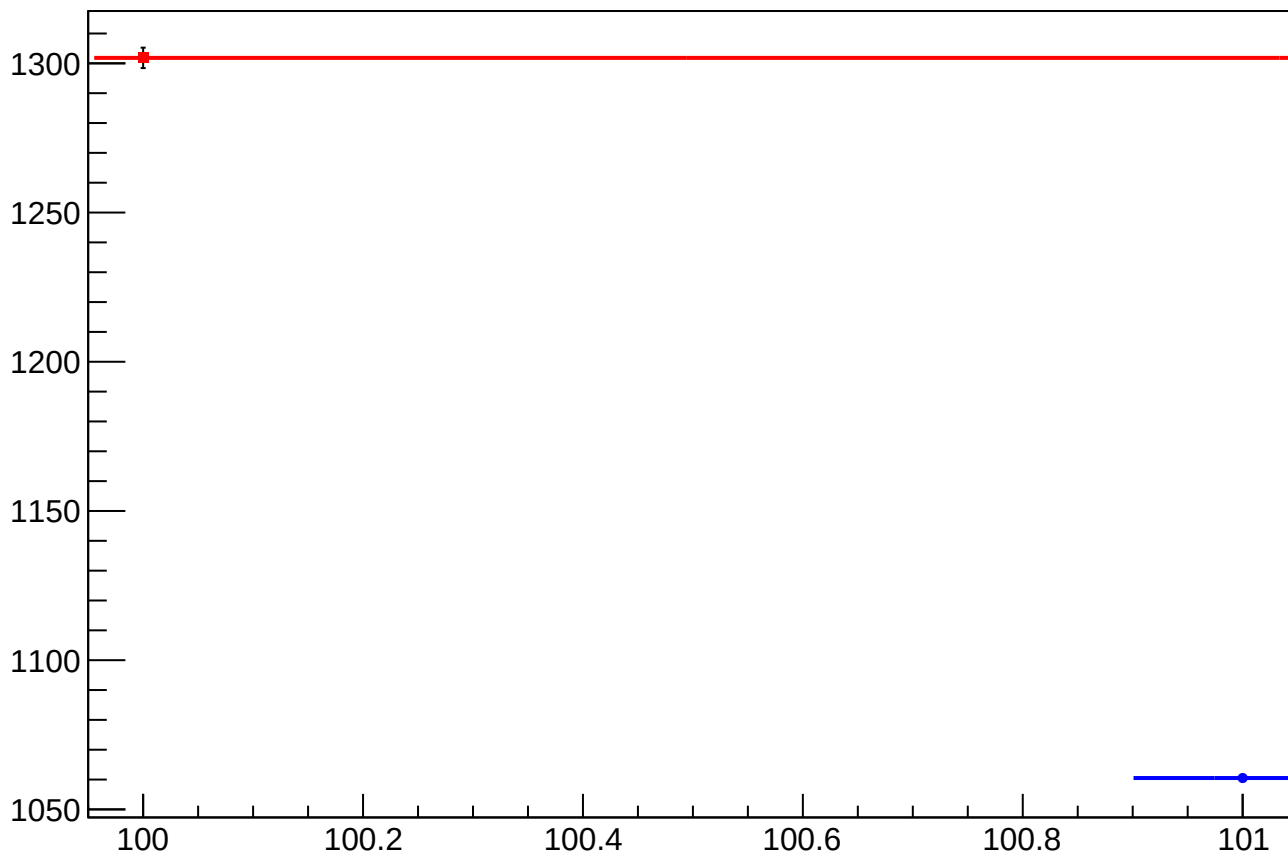
Right: -1796.797+/-1266.836  $\chi^2/\text{NDF}$ : 7.1/1

In: -2711.123+/-1312.611  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1796.797+/-1266.836  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam\_48\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1060.512 $\pm$ 0.928  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1301.828 $\pm$ 3.422  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

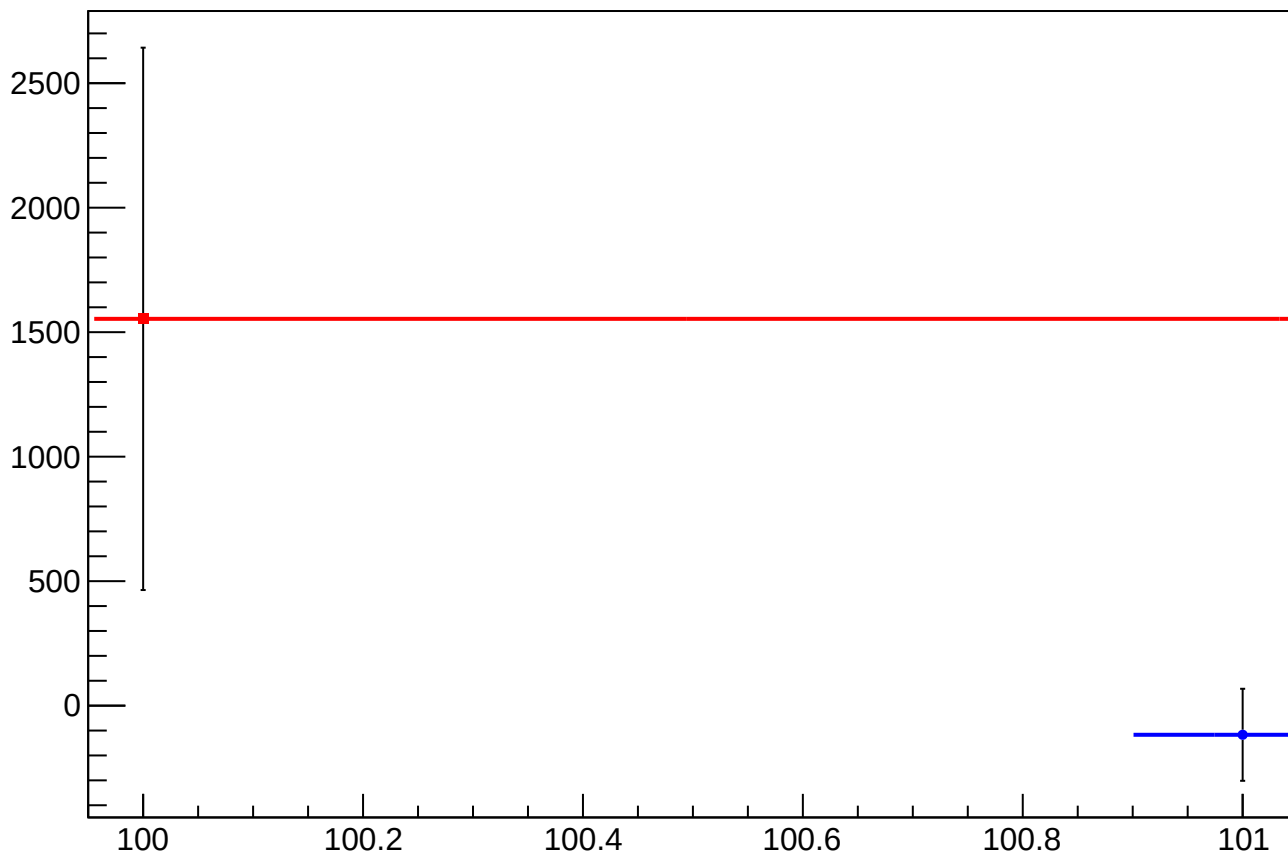
Right: 1077.050 $\pm$ 0.896  $\chi^2$ /NDF: 4632.4/1

In: 1060.512 $\pm$ 0.928  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1077.050 $\pm$ 0.896  $\chi^2$ /NDF: 4632.4/1

dit\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: -116.997+/-184.793  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1553.534+/-1089.130  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

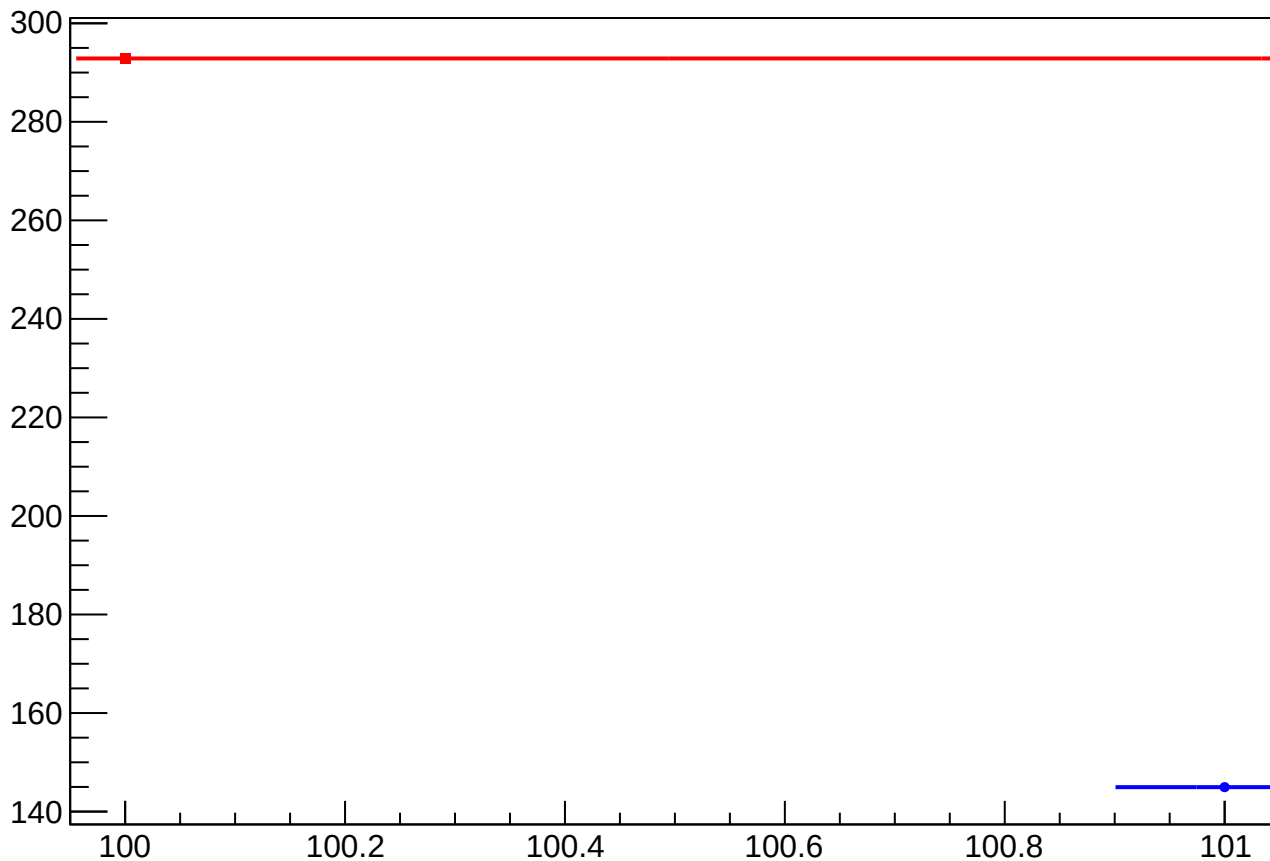
Right: -70.251+/-182.190  $\chi^2/\text{NDF}$ : 2.3/1

In: -116.997+/-184.793  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -70.251+/-182.190  $\chi^2/\text{NDF}$ : 2.3/1

dit\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 144.957 $\pm$ 0.131  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 292.861 $\pm$ 0.770  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 149.096 $\pm$ 0.129  $\chi^2$ /NDF: 35851.4/1

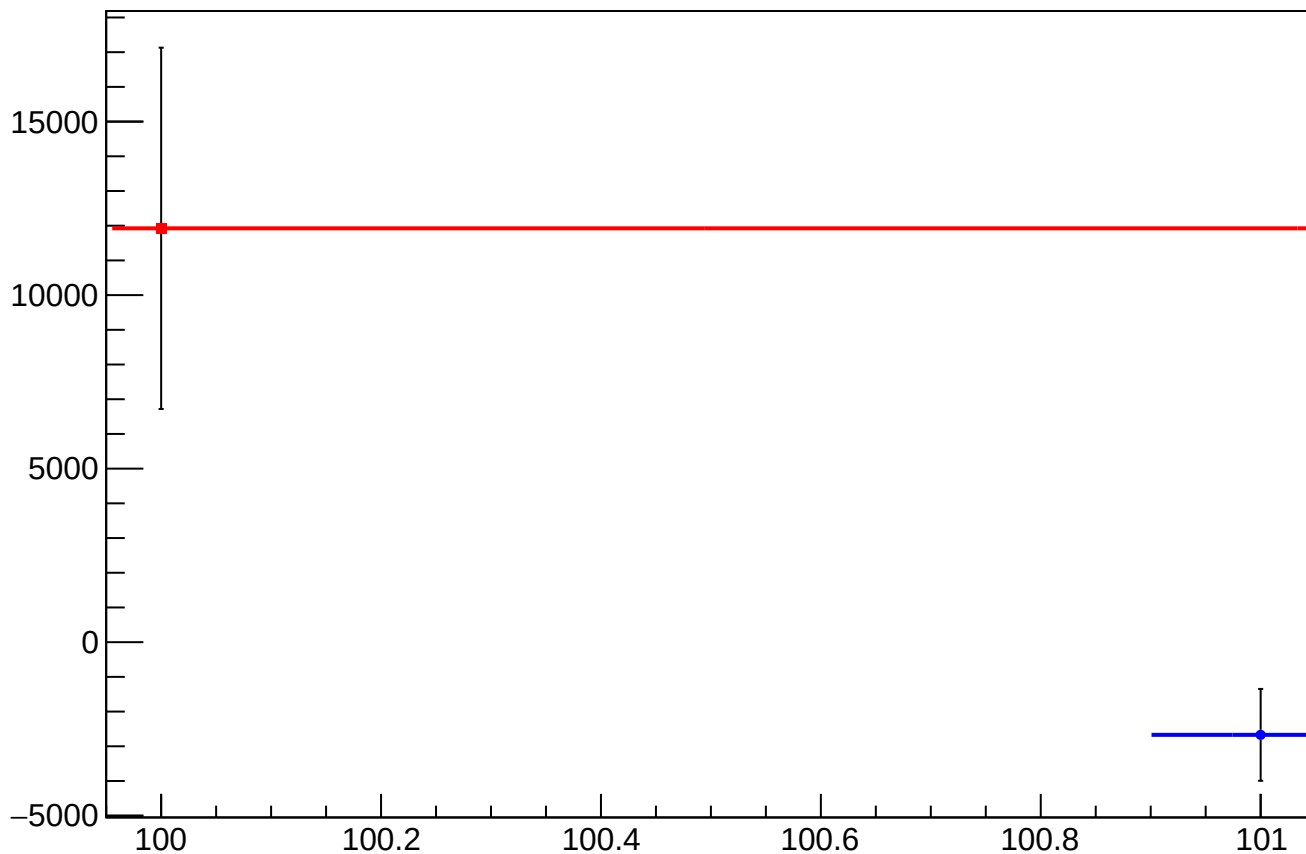
In: 144.957 $\pm$ 0.131  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 149.096 $\pm$ 0.129  $\chi^2$ /NDF: 35851.4/1



asym\_sam\_48\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2670.943+/-1323.685  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11924.375+/-5205.648  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

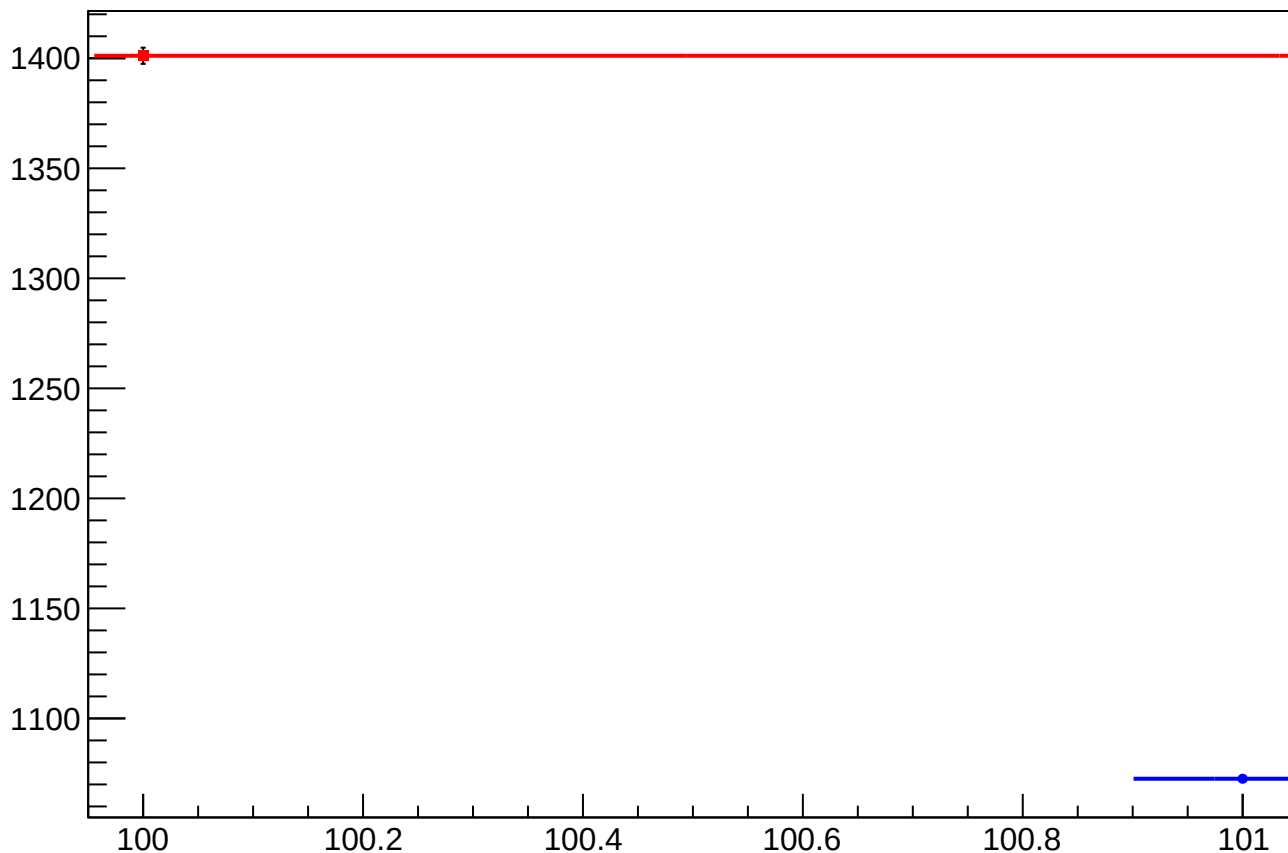
Right: -1784.555+/-1282.862  $\chi^2/\text{NDF}$ : 7.4/1

In: -2670.943+/-1323.685  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1784.555+/-1282.862  $\chi^2/\text{NDF}$ : 7.4/1

asym\_sam\_48\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1072.590 $\pm$ 0.936  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1401.146 $\pm$ 3.681  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

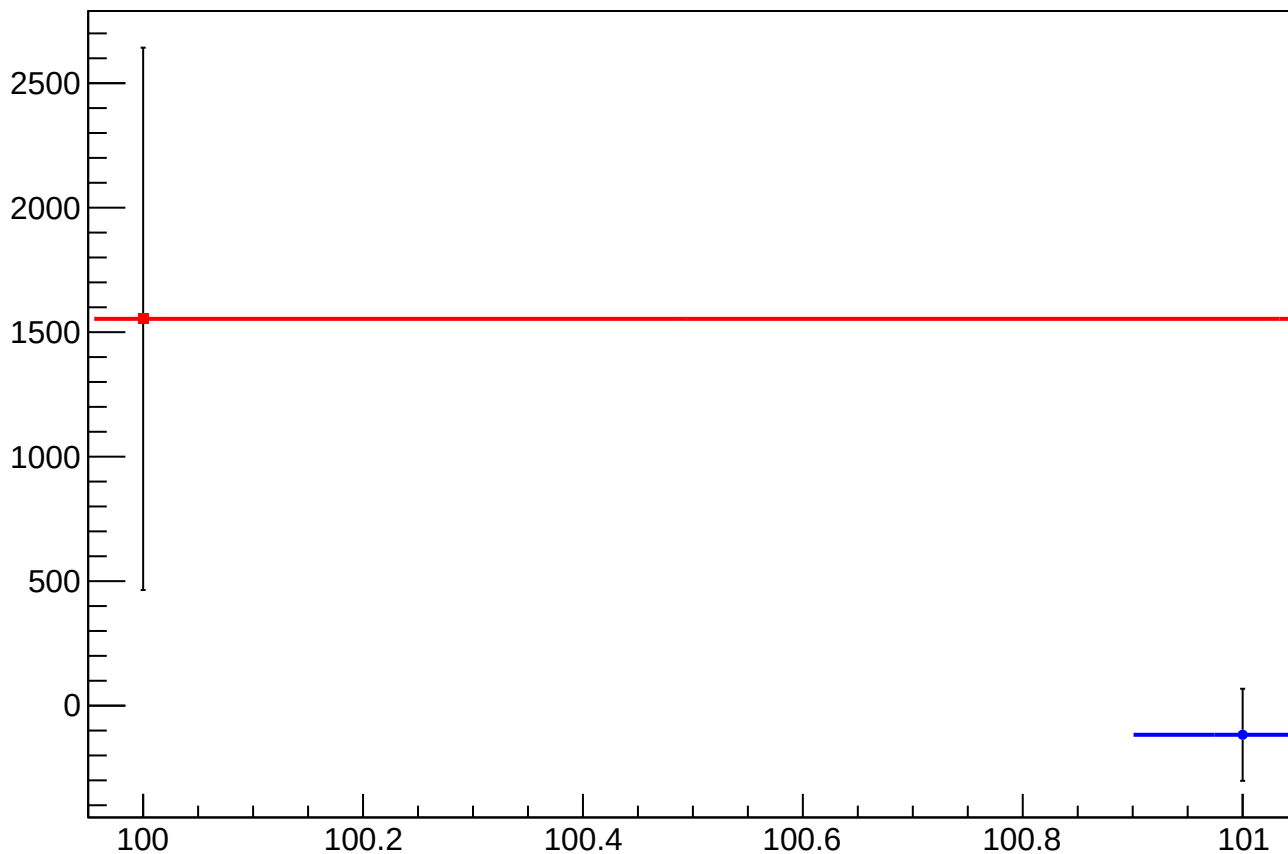
Right: 1092.543 $\pm$ 0.907  $\chi^2$ /NDF: 7483.3/1

In: 1072.590 $\pm$ 0.936  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1092.543 $\pm$ 0.907  $\chi^2$ /NDF: 7483.3/1

eigen\_dit\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: -116.993+/-184.794  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1553.522+/-1089.131  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

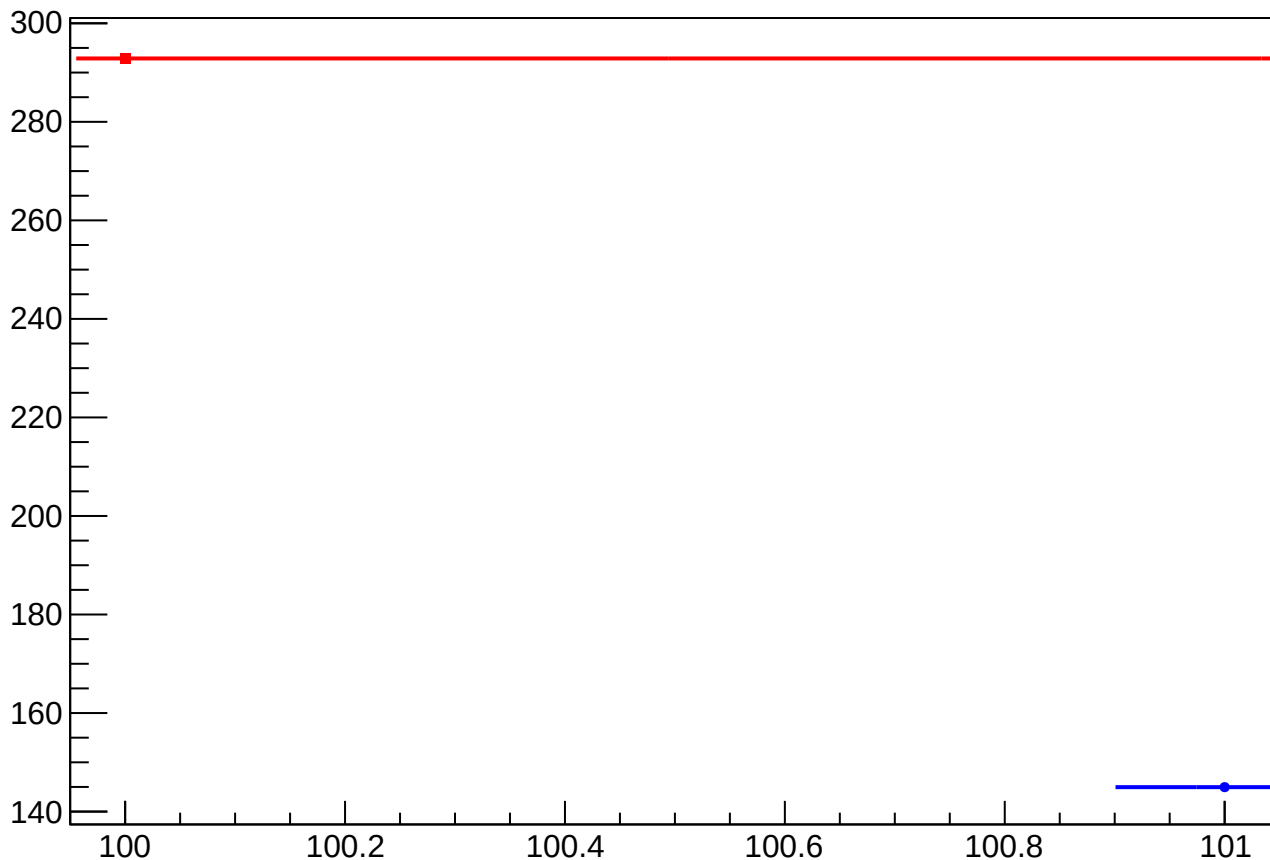
Right: -70.247+/-182.190  $\chi^2/\text{NDF}$ : 2.3/1

In: -116.993+/-184.794  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -70.247+/-182.190  $\chi^2/\text{NDF}$ : 2.3/1

eigen\_dit\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 144.958 $\pm$ 0.131  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 292.861 $\pm$ 0.770  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

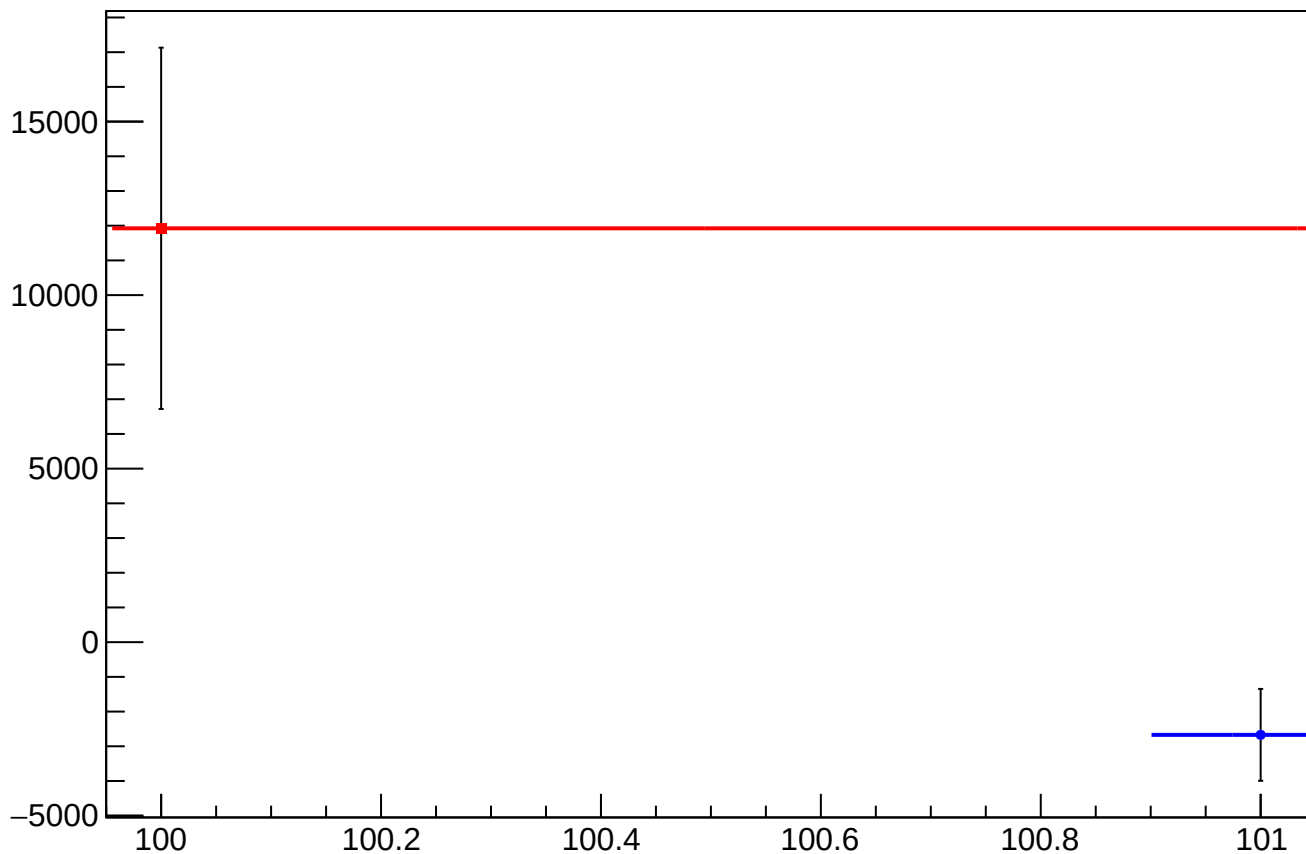
Right: 149.096 $\pm$ 0.129  $\chi^2$ /NDF: 35851.1/1

In: 144.958 $\pm$ 0.131  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 149.096 $\pm$ 0.129  $\chi^2$ /NDF: 35851.1/1

asym\_sam\_48\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2670.943+/-1323.685  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11924.359+/-5205.642  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

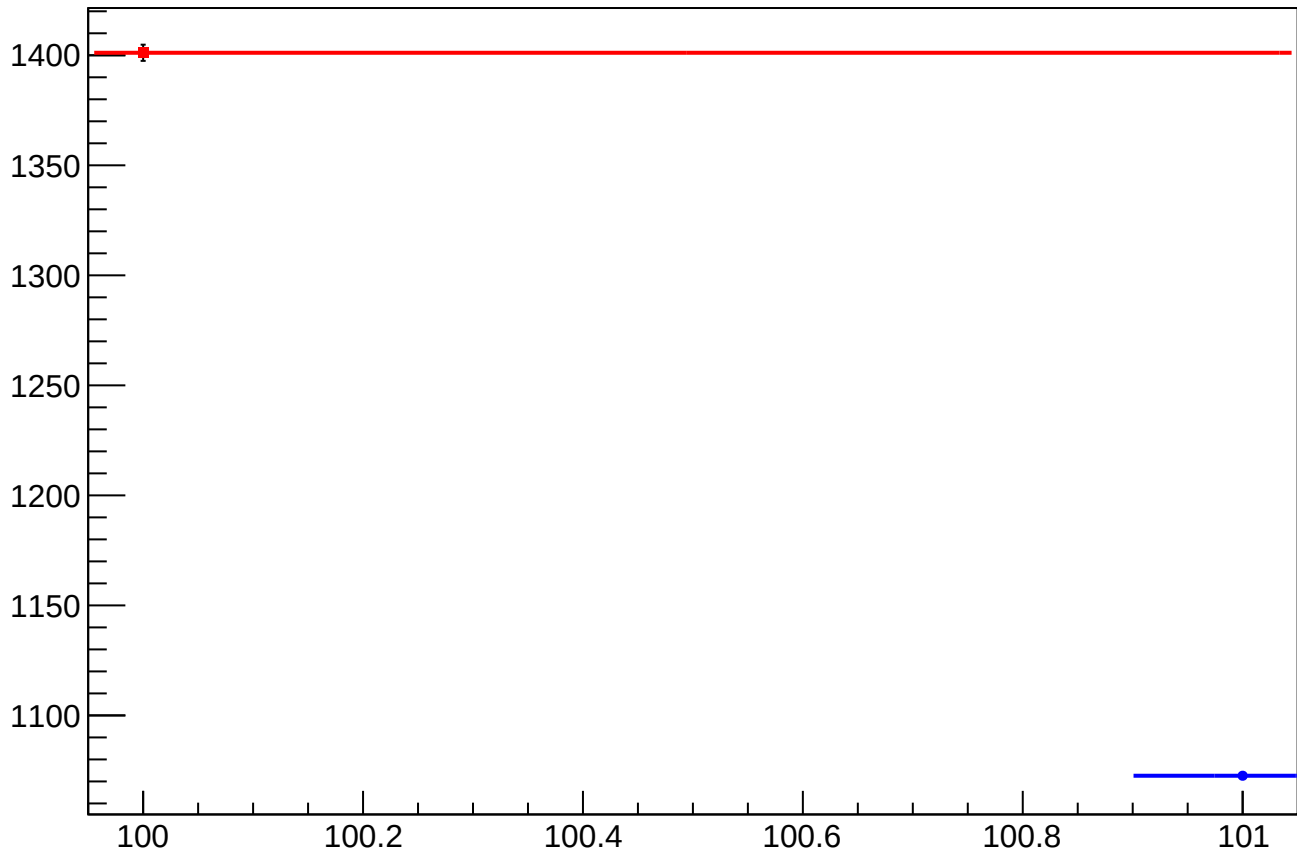
Right: -1784.556+/-1282.861  $\chi^2/\text{NDF}$ : 7.4/1

In: -2670.943+/-1323.685  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1784.556+/-1282.861  $\chi^2/\text{NDF}$ : 7.4/1

asym\_sam\_48\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1072.589 $\pm$ 0.936  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1401.145 $\pm$ 3.681  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

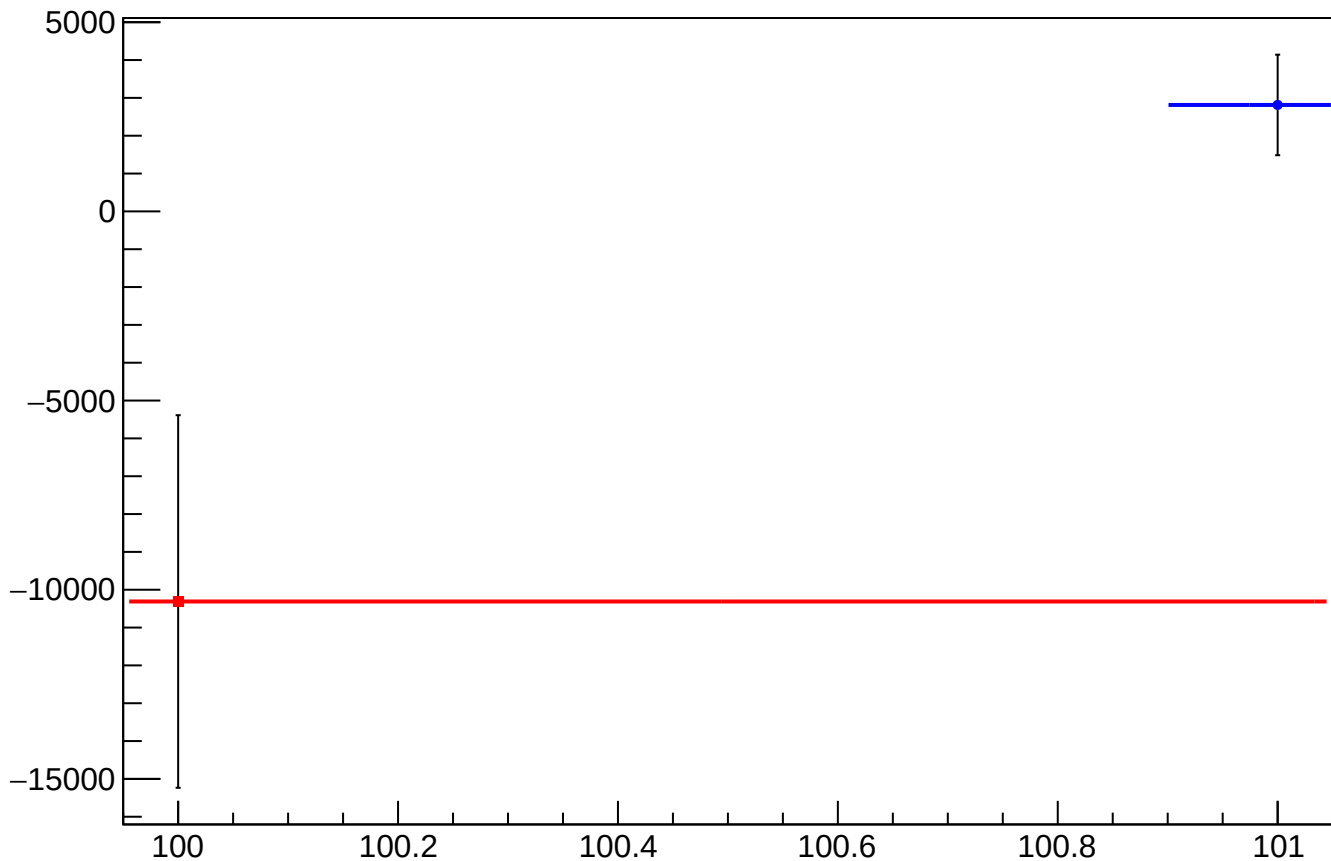
Right: 1092.543 $\pm$ 0.907  $\chi^2$ /NDF: 7483.2/1

In: 1072.589 $\pm$ 0.936  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1092.543 $\pm$ 0.907  $\chi^2$ /NDF: 7483.2/1

asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 2813.120+/-1328.906  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10310.955+/-4924.293  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

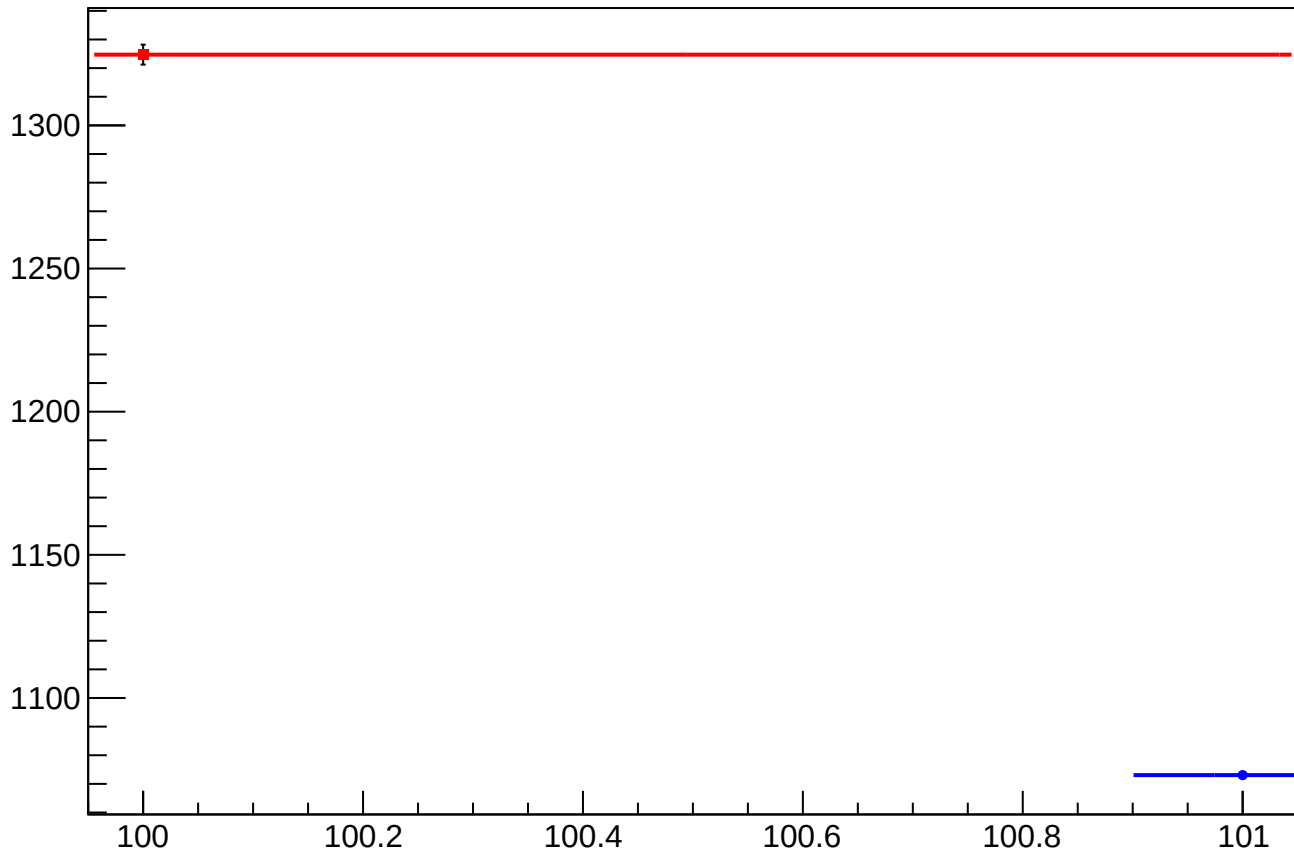
Right: 1922.199+/-1283.007  $\chi^2/\text{NDF}$ : 6.6/1

In: 2813.120+/-1328.906  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1922.199+/-1283.007  $\chi^2/\text{NDF}$ : 6.6/1

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 1073.063 $\pm$ 0.940  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1324.711 $\pm$ 3.482  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1090.146 $\pm$ 0.907  $\chi^2$ /NDF: 4868.5/1

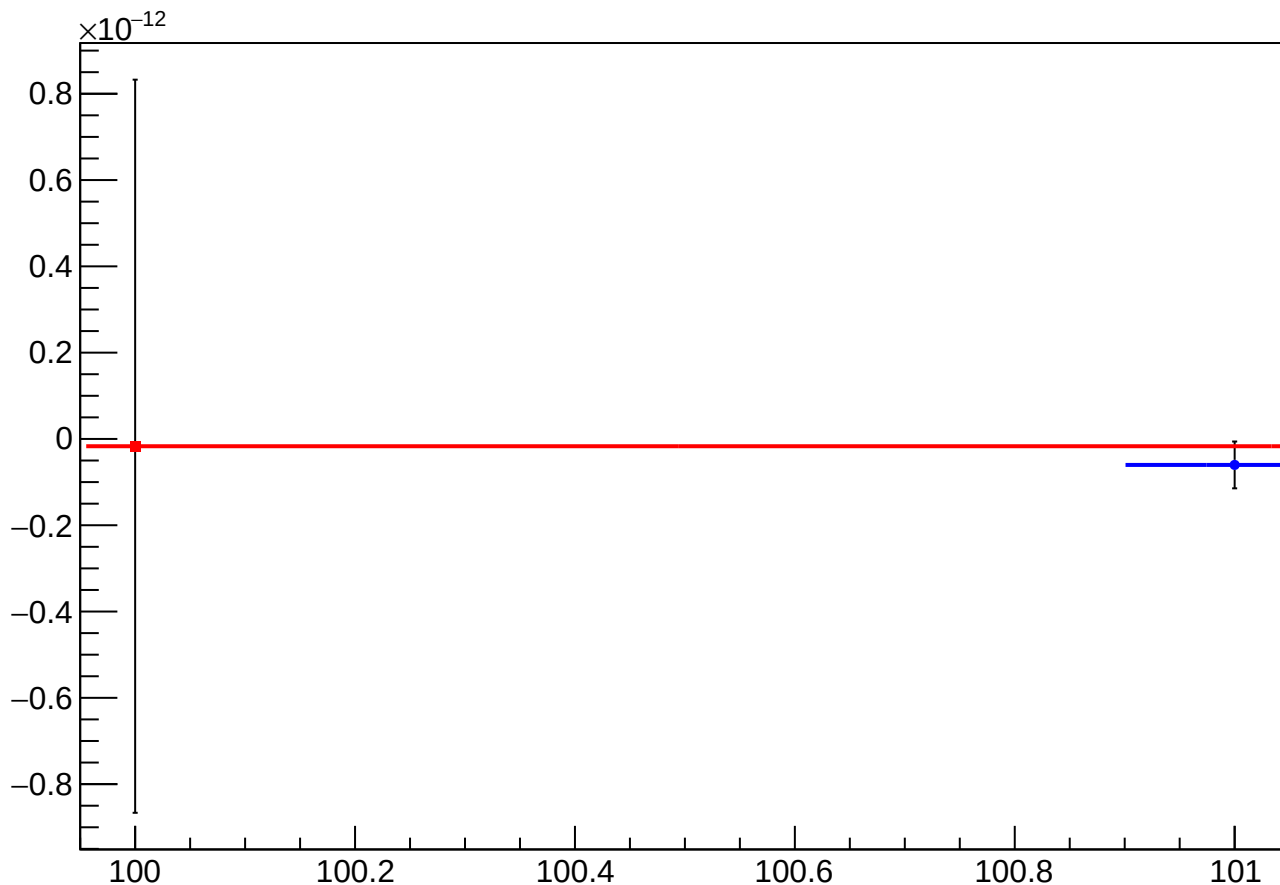
In: 1073.063 $\pm$ 0.940  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1090.146 $\pm$ 0.907  $\chi^2$ /NDF: 4868.5/1



asym\_sam\_48\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

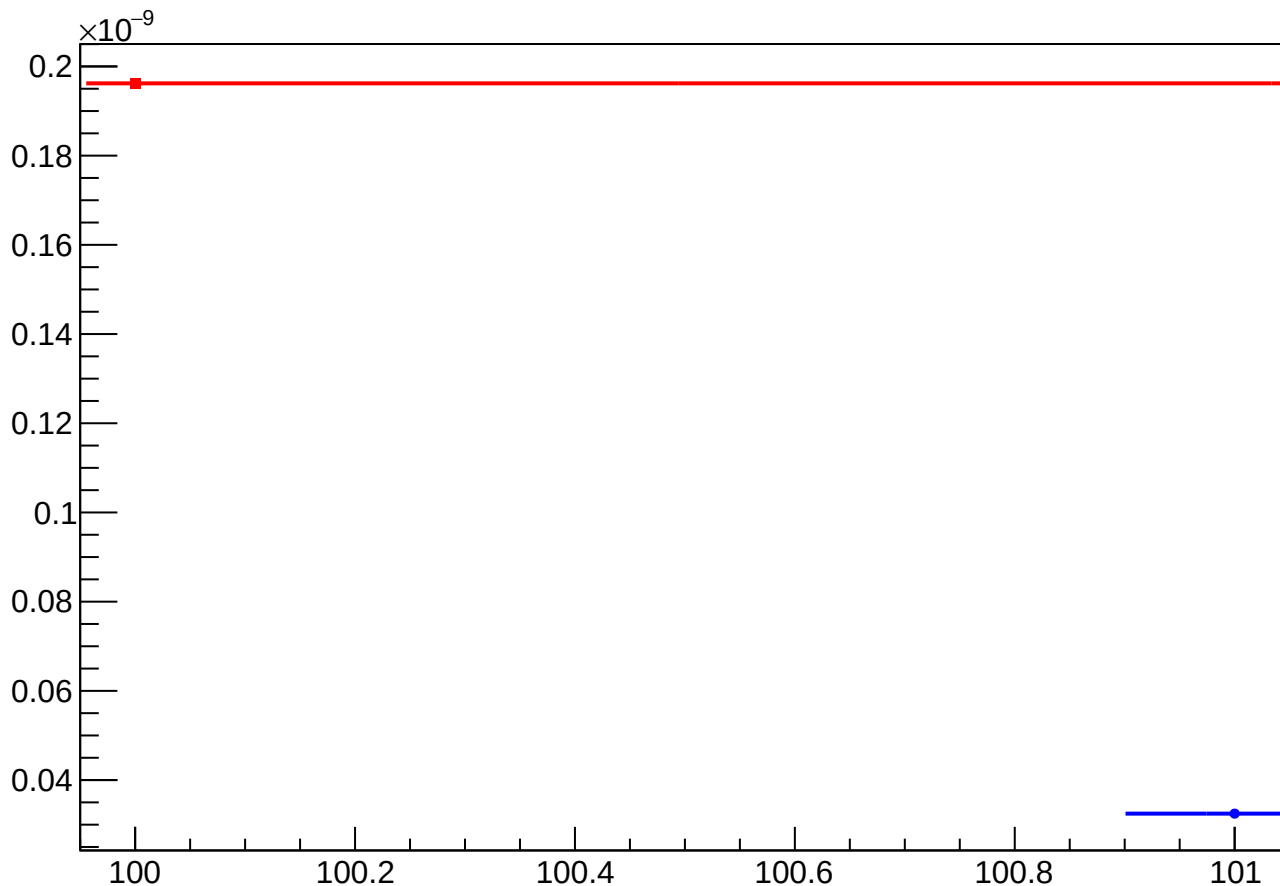
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_48\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

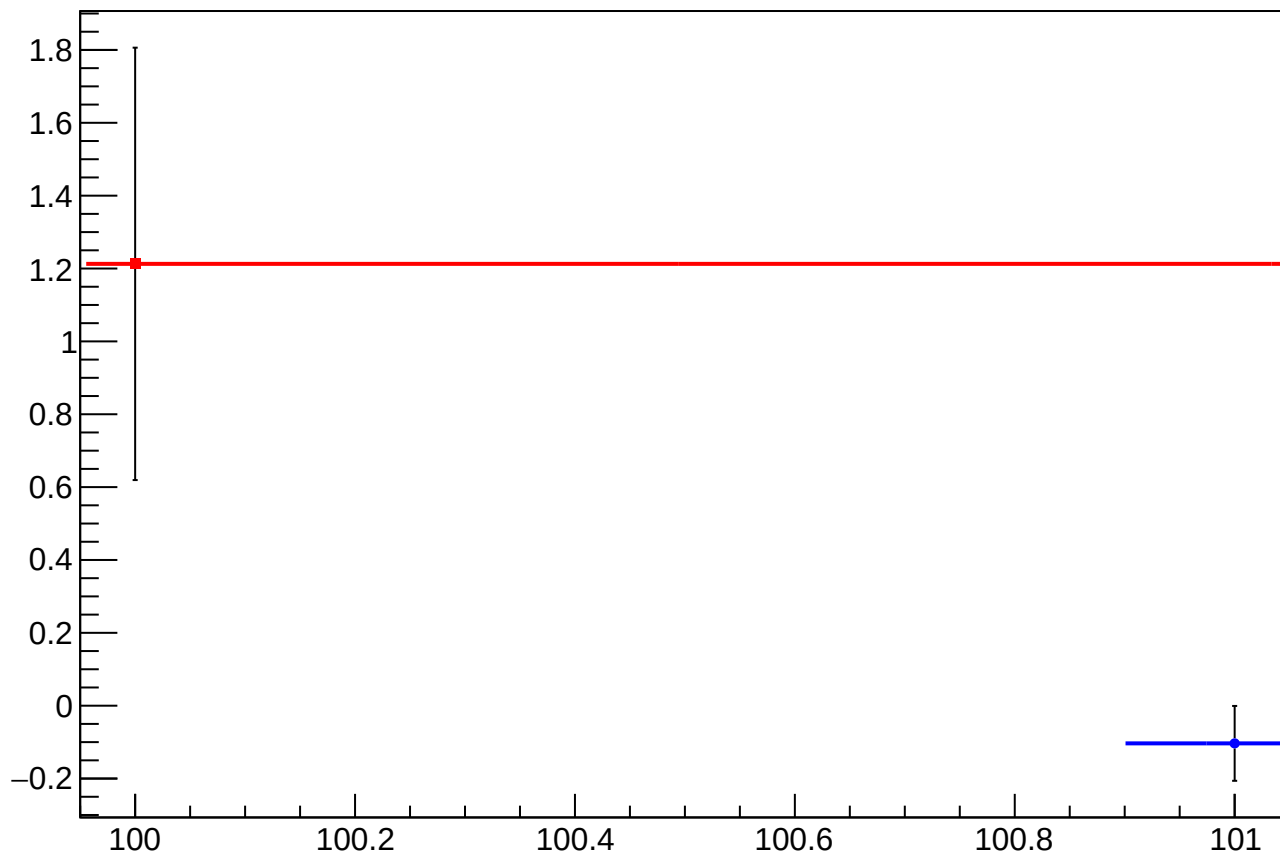
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 73988.1/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 73988.1/1

asym\_sam\_48\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.103+/-0.103  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.213+/-0.593  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

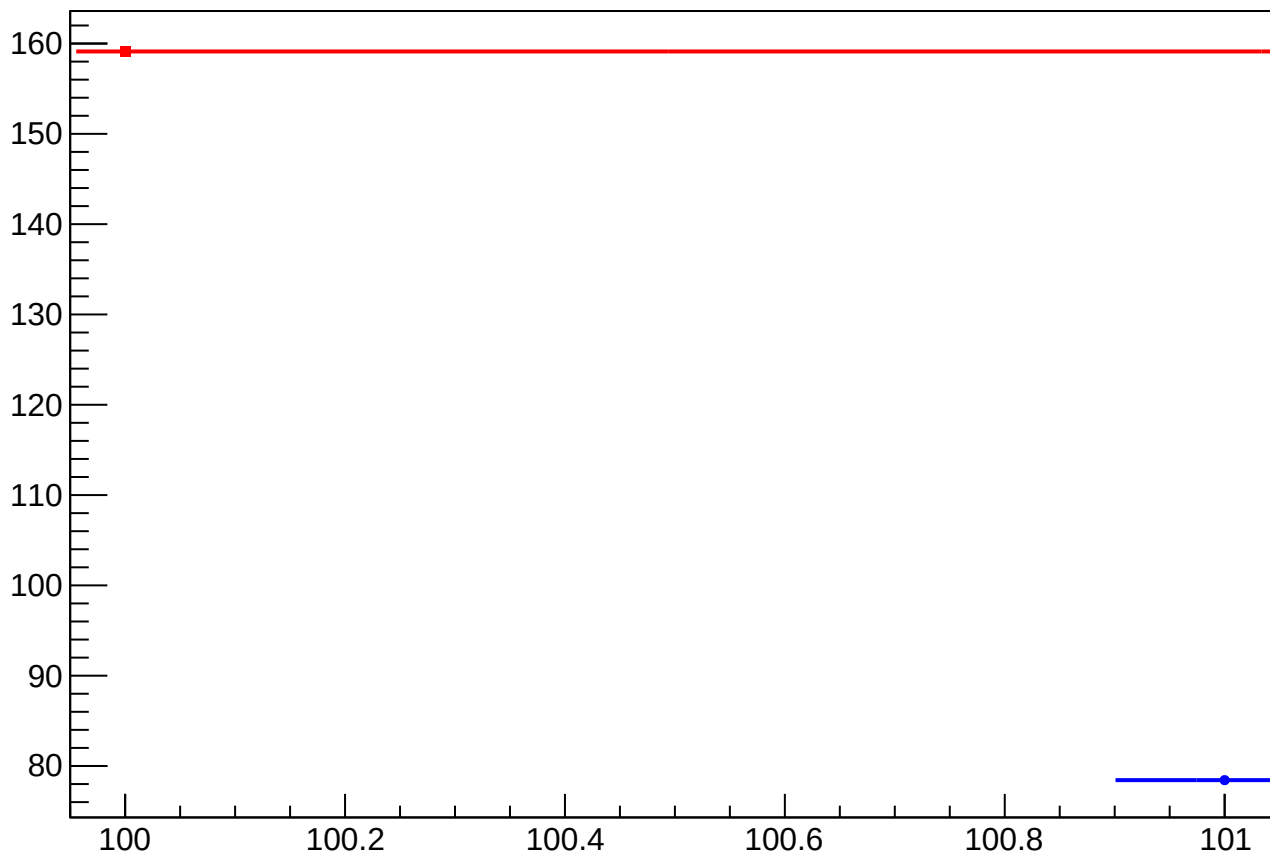
Right: -0.065+/-0.101  $\chi^2/\text{NDF}$ : 4.8/1

In: -0.103+/-0.103  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.065+/-0.101  $\chi^2/\text{NDF}$ : 4.8/1

asym\_sam\_48\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 78.433+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 159.123+/-0.420  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

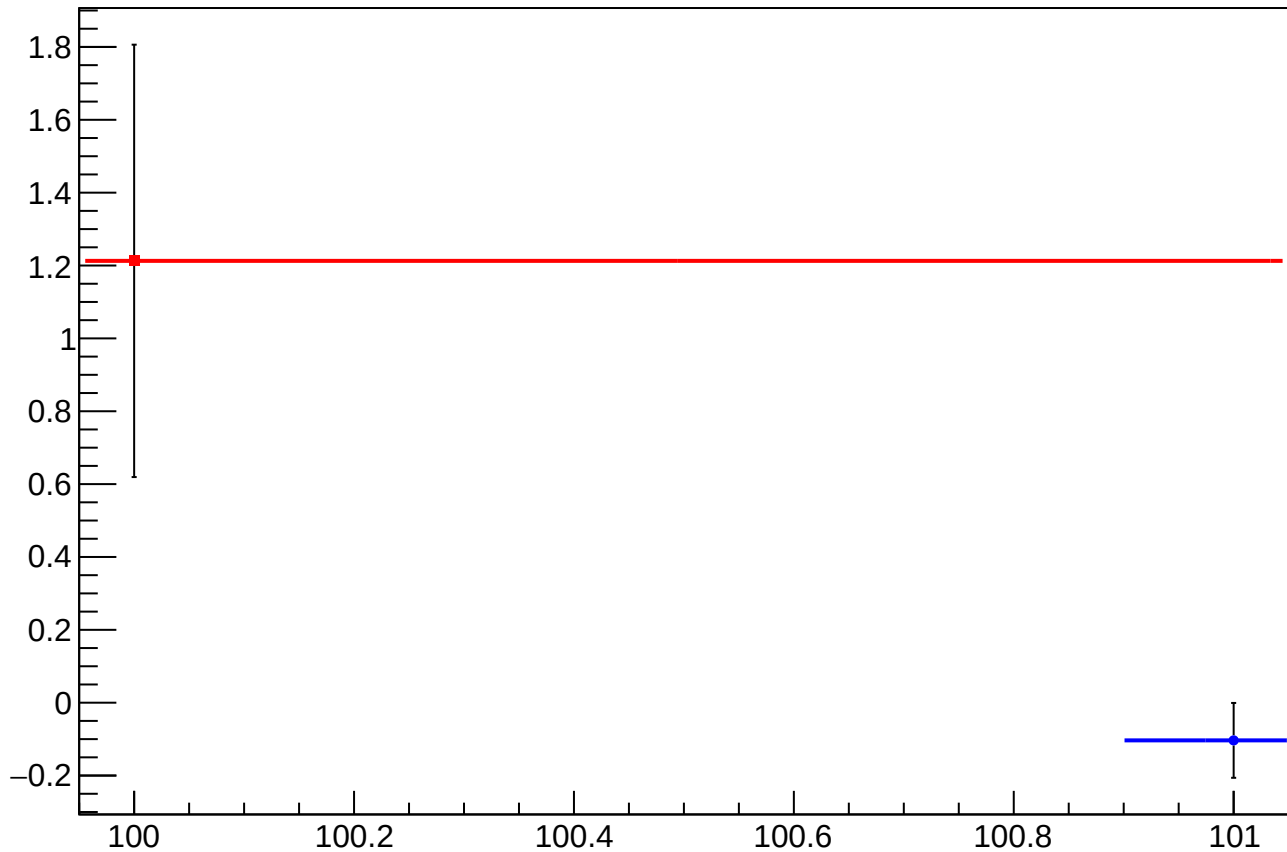
Right: 80.780+/-0.072  $\chi^2/\text{NDF}$ : 35900.0/1

In: 78.433+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.780+/-0.072  $\chi^2/\text{NDF}$ : 35900.0/1

asym\_sam\_48\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.103+/-0.103  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.213+/-0.593  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

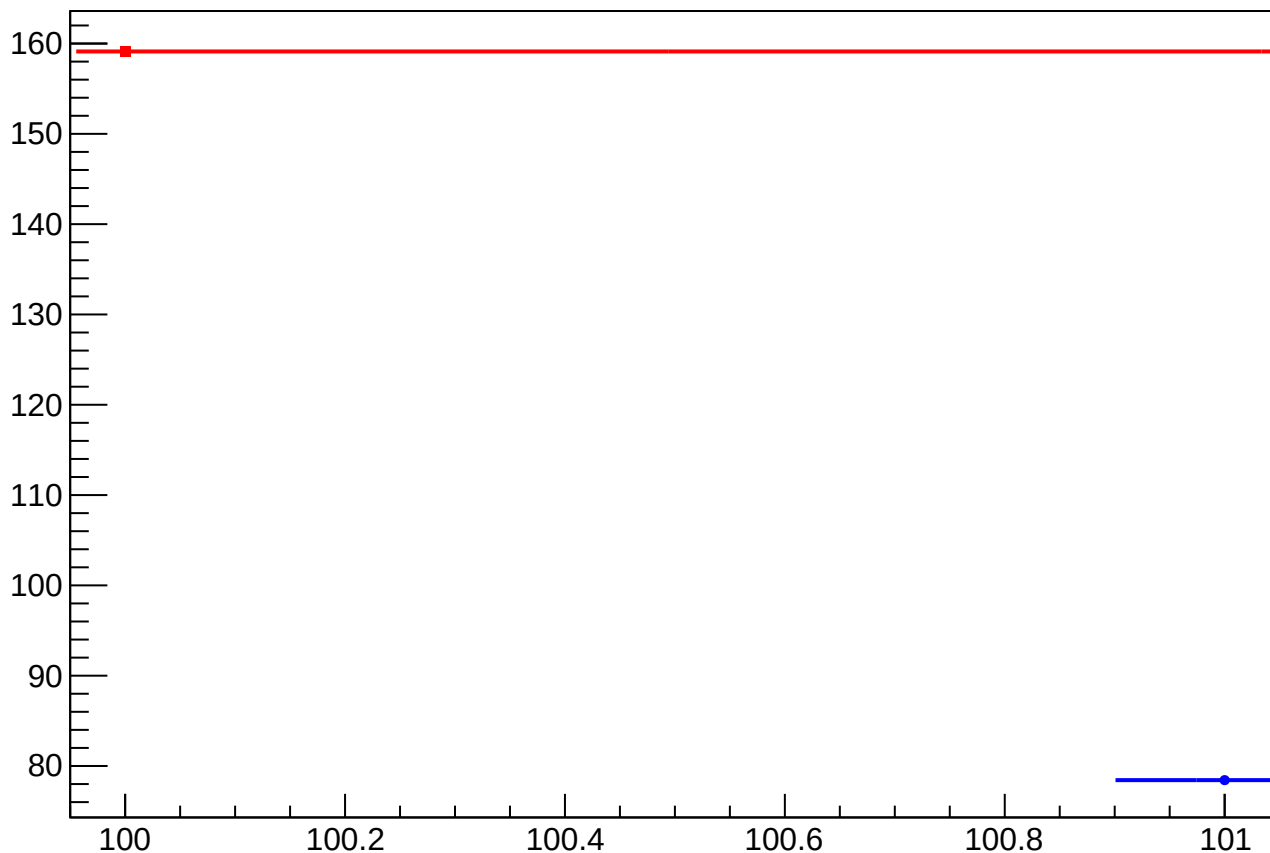
Right: -0.065+/-0.101  $\chi^2/\text{NDF}$ : 4.8/1

In: -0.103+/-0.103  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.065+/-0.101  $\chi^2/\text{NDF}$ : 4.8/1

asym\_sam\_48\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 78.433+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 159.123+/-0.420  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

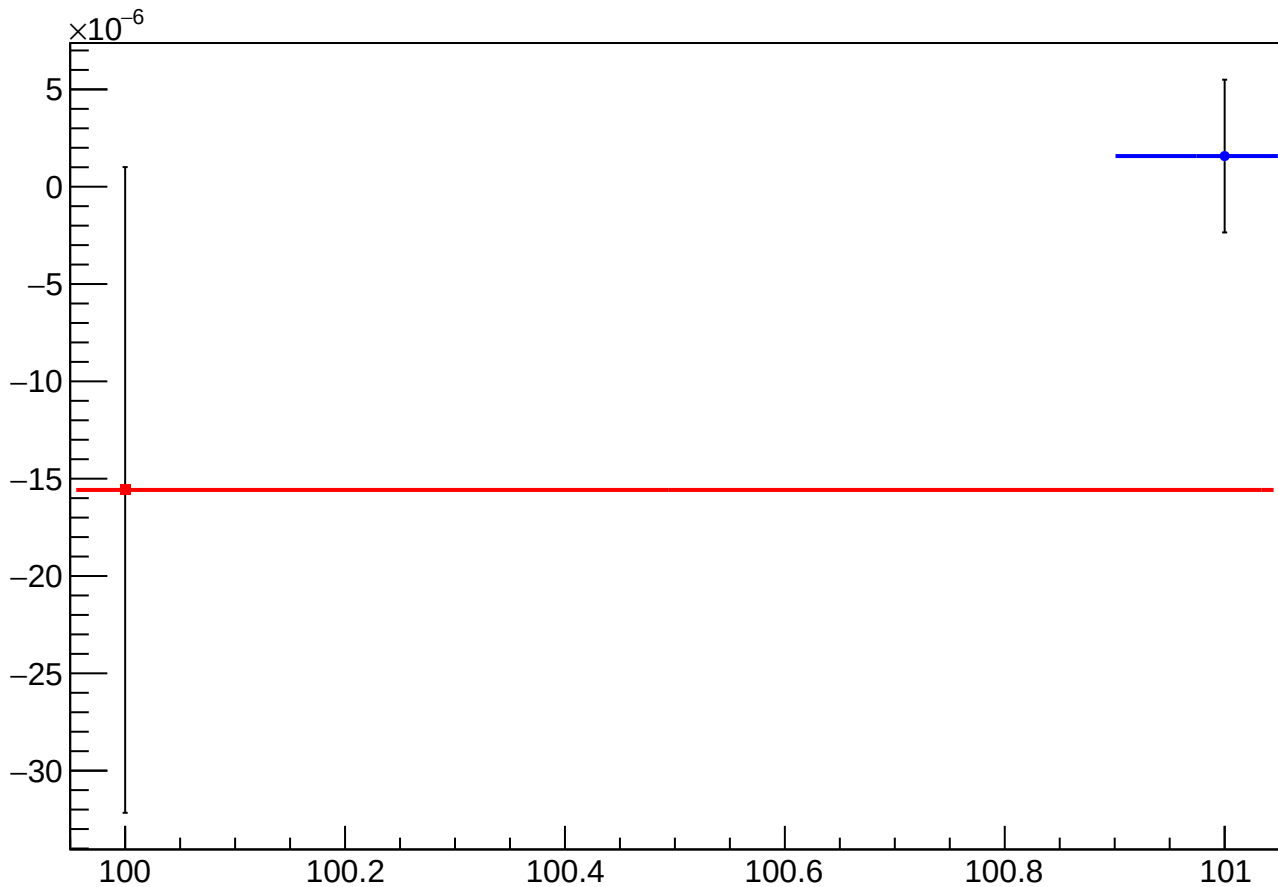
Right: 80.780+/-0.072  $\chi^2/\text{NDF}$ : 35900.0/1

In: 78.433+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.780+/-0.072  $\chi^2/\text{NDF}$ : 35900.0/1

asym\_sam\_48\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

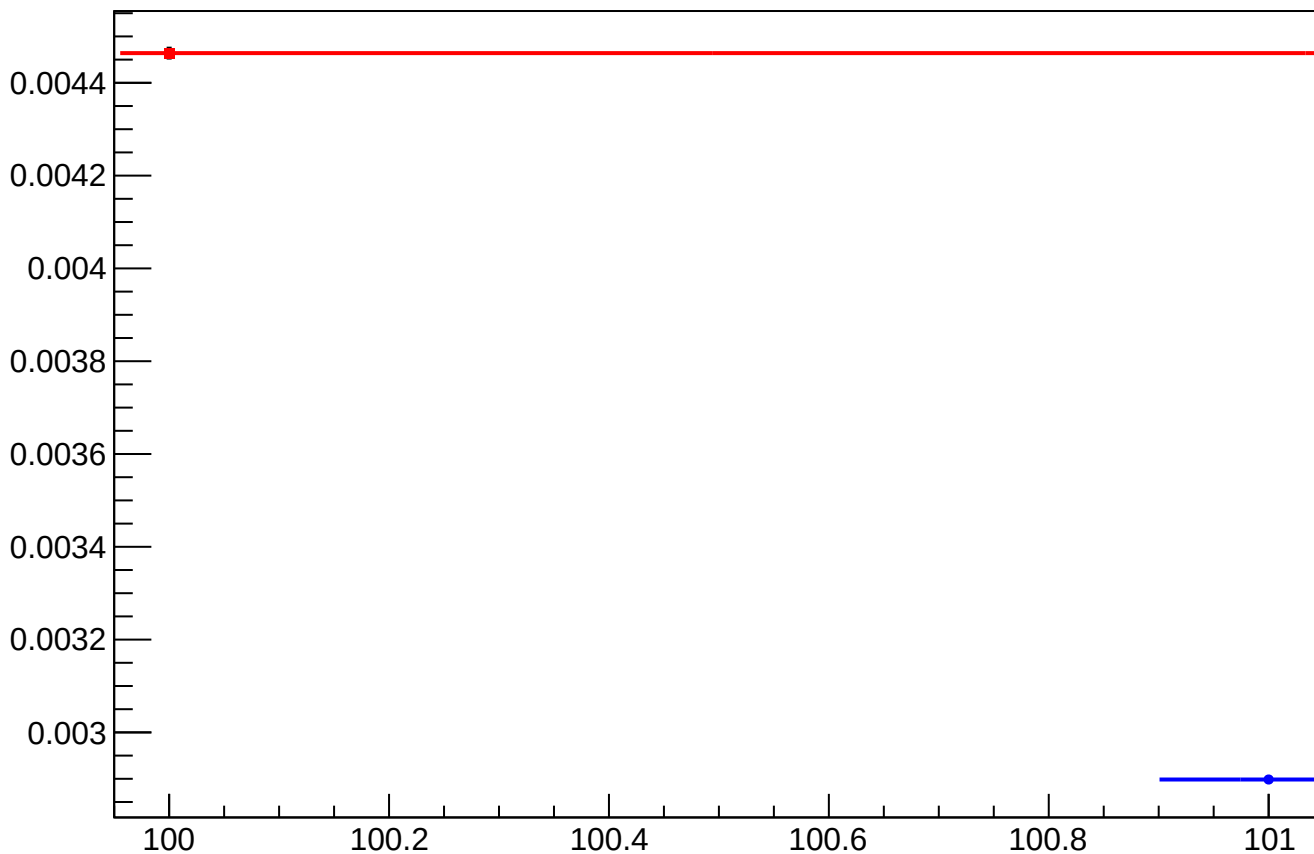
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

asym\_sam\_48\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 16872.6/1

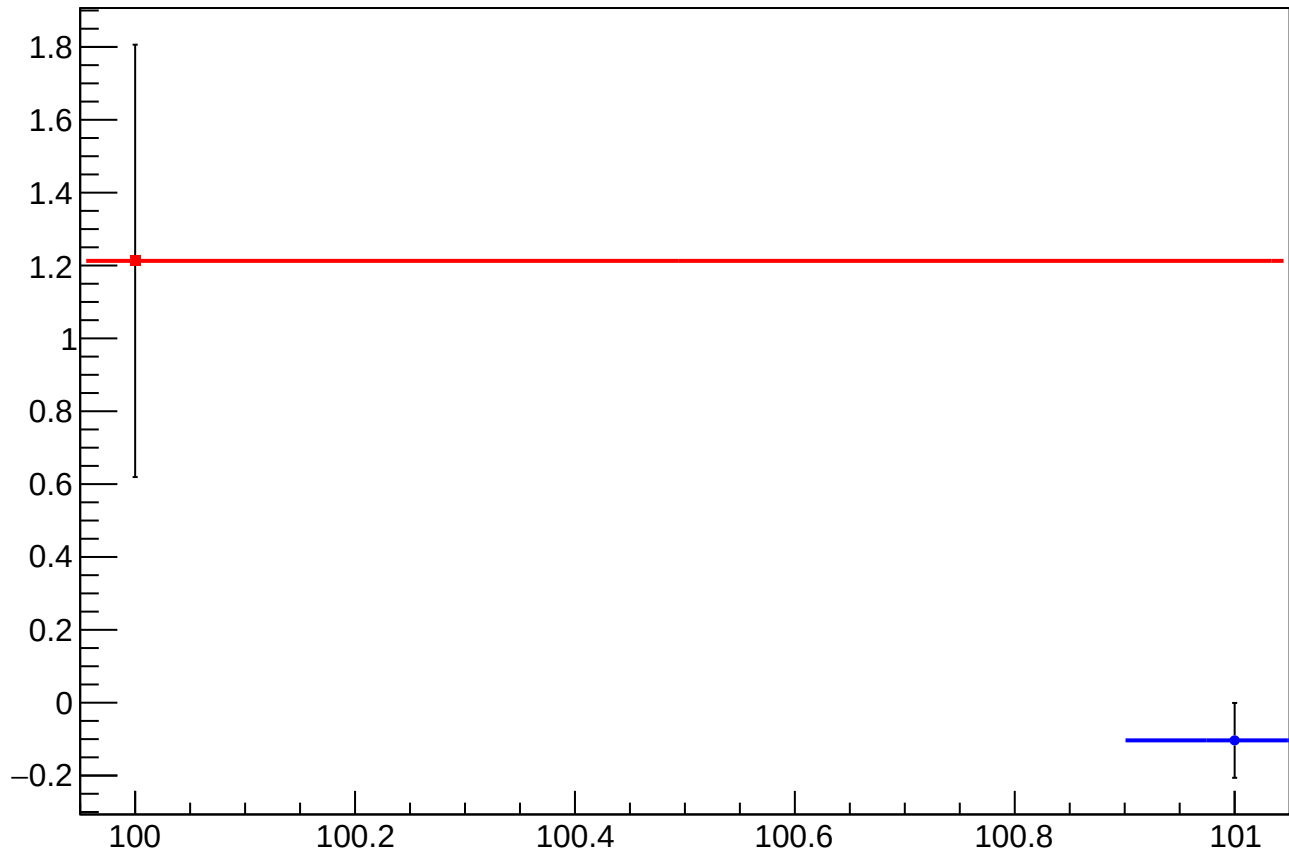
In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 16872.6/1



asym\_sam\_48\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.103 $\pm$ 0.103  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.213 $\pm$ 0.593  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

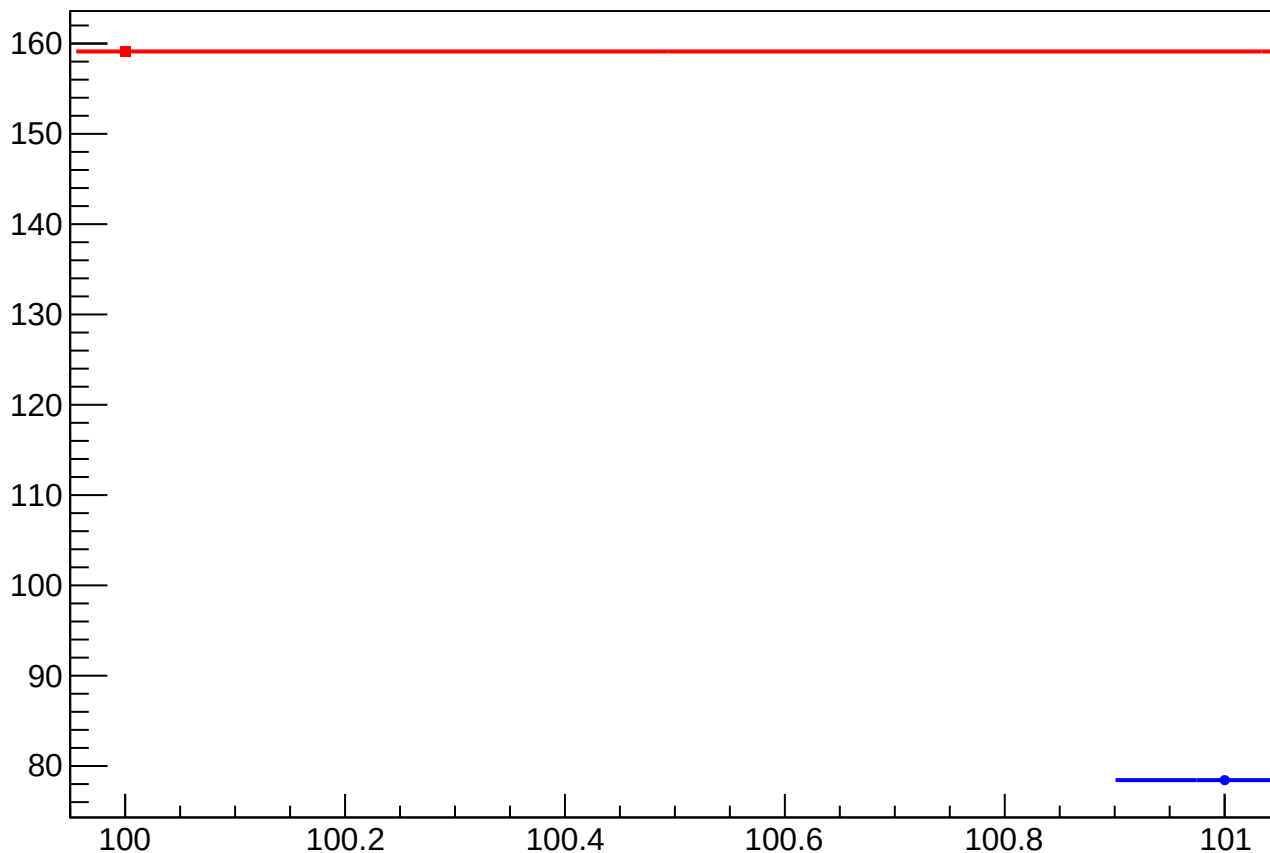
Right: -0.065 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 4.8/1

In: -0.103 $\pm$ 0.103  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.065 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 4.8/1

asym\_sam\_48\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 78.434+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 159.124+/-0.420  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

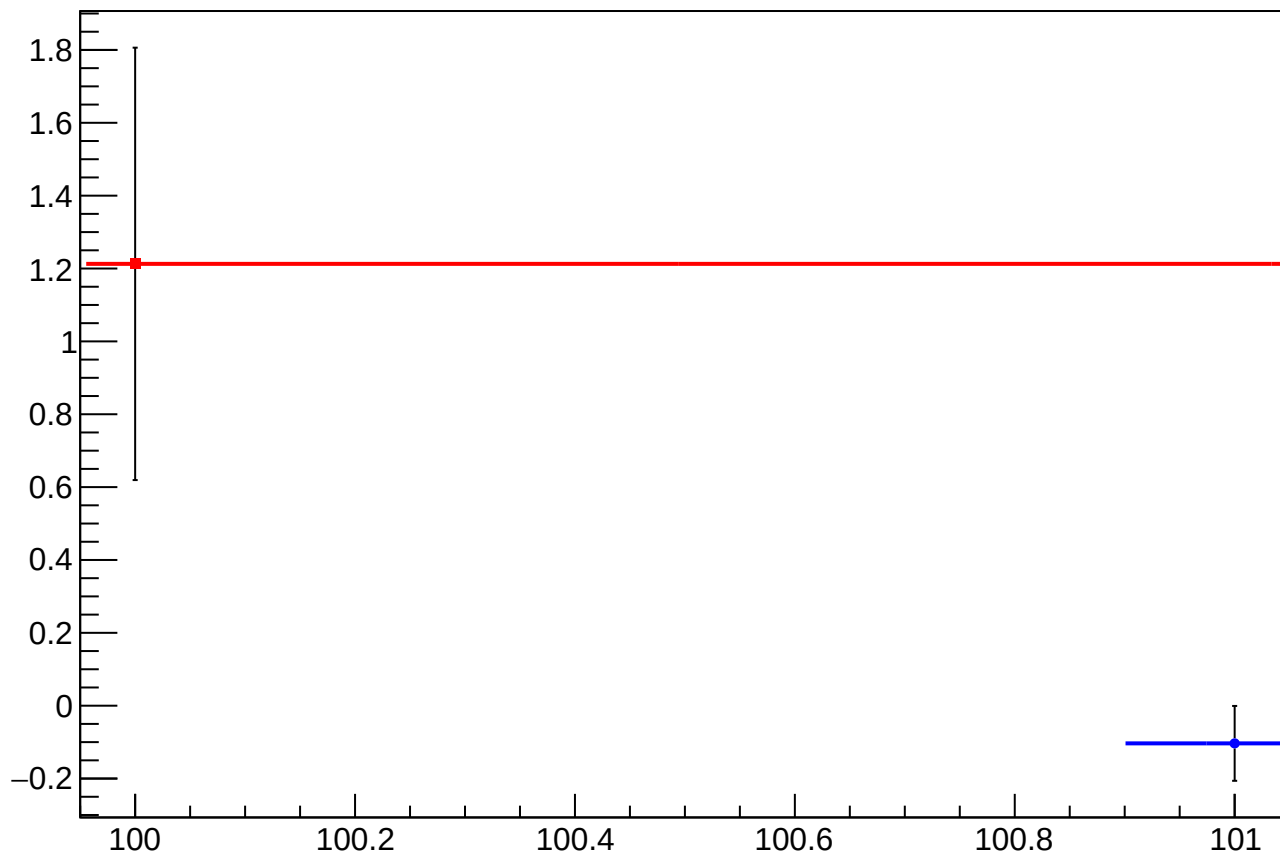
Right: 80.782+/-0.072  $\chi^2/\text{NDF}$ : 35898.9/1

In: 78.434+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.782+/-0.072  $\chi^2/\text{NDF}$ : 35898.9/1

asym\_sam\_48\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.103 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.213 $\pm$ 0.593  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

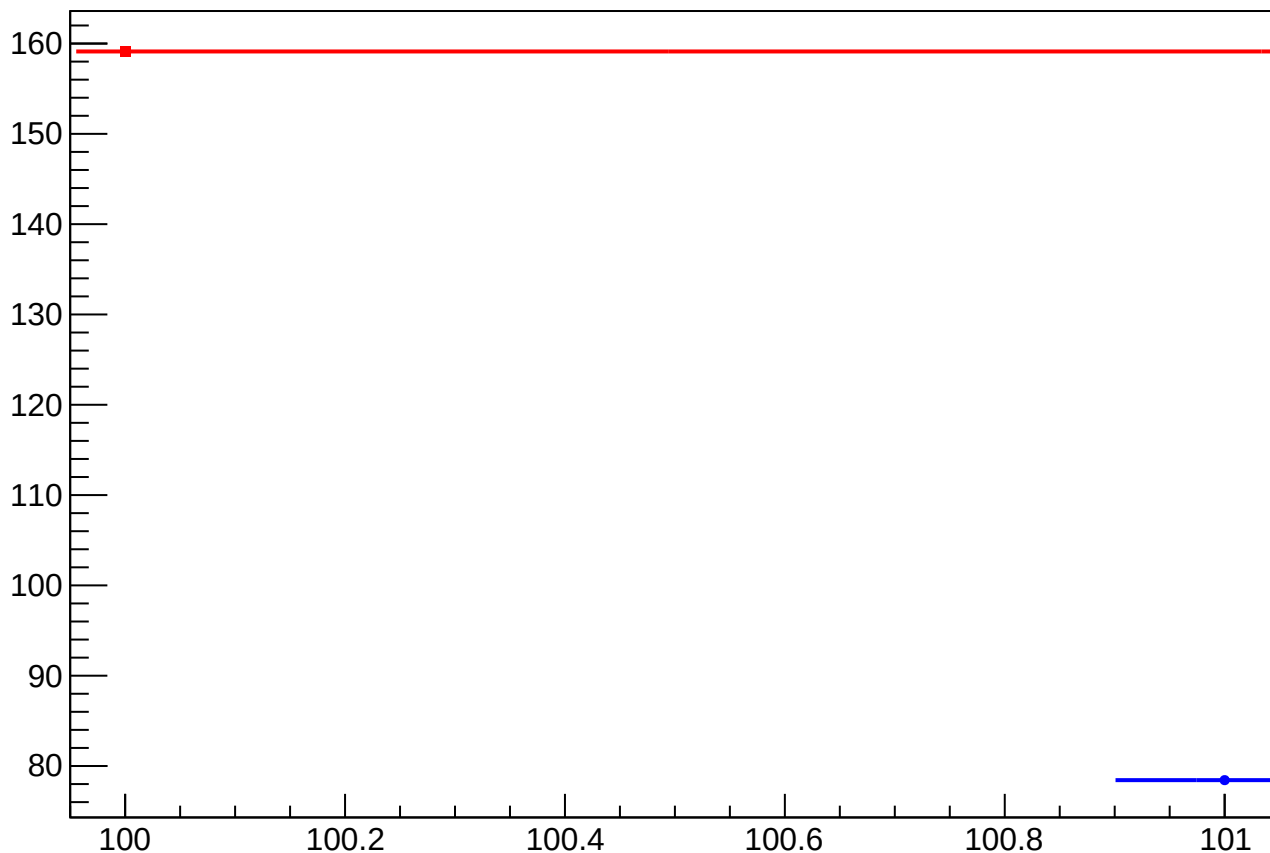
Right: -0.065 $\pm$ 0.101  $\chi^2$ /NDF: 4.8/1

In: -0.103 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.065 $\pm$ 0.101  $\chi^2$ /NDF: 4.8/1

asym\_sam\_48\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 78.434+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 159.124+/-0.420  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

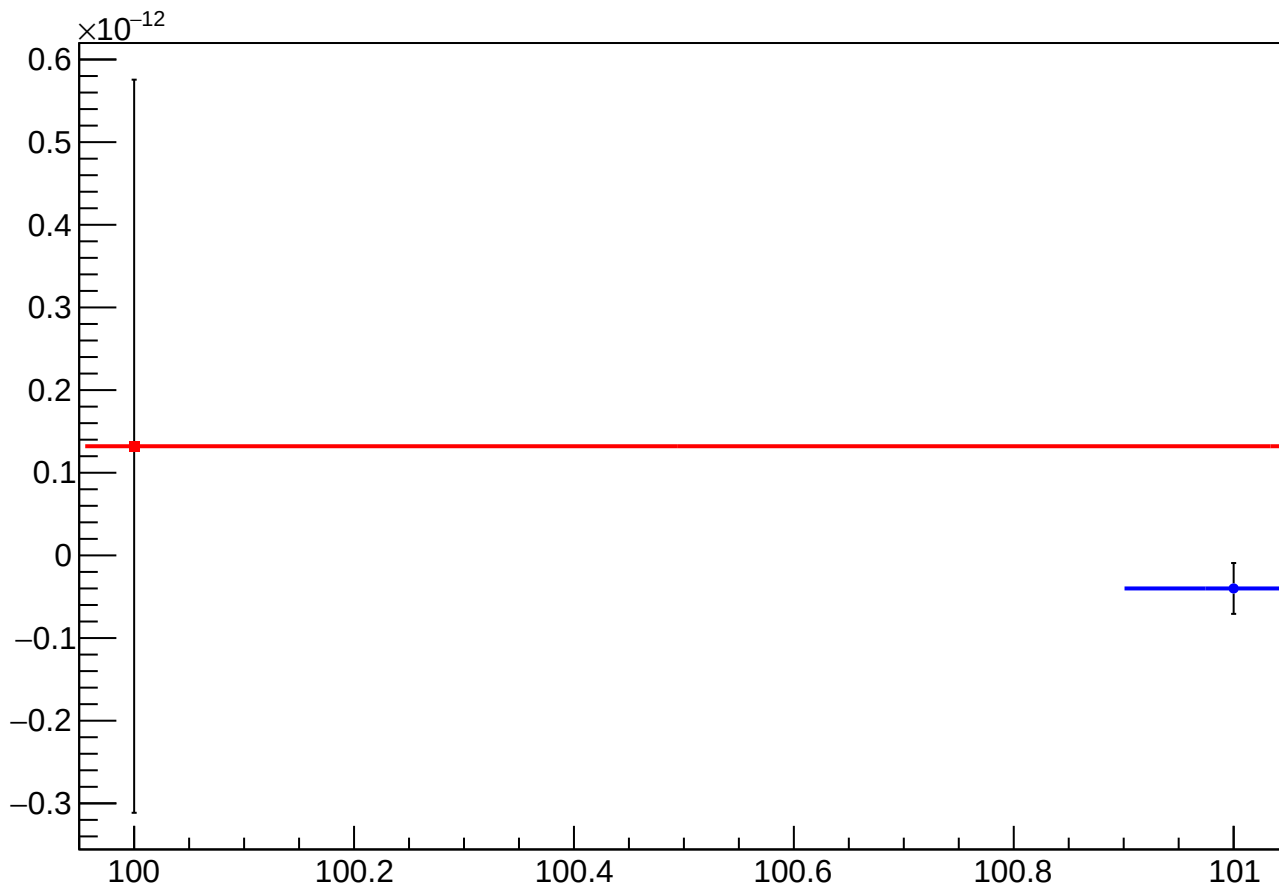
Right: 80.782+/-0.072  $\chi^2/\text{NDF}$ : 35898.9/1

In: 78.434+/-0.073  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.782+/-0.072  $\chi^2/\text{NDF}$ : 35898.9/1

asym\_sam\_48\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

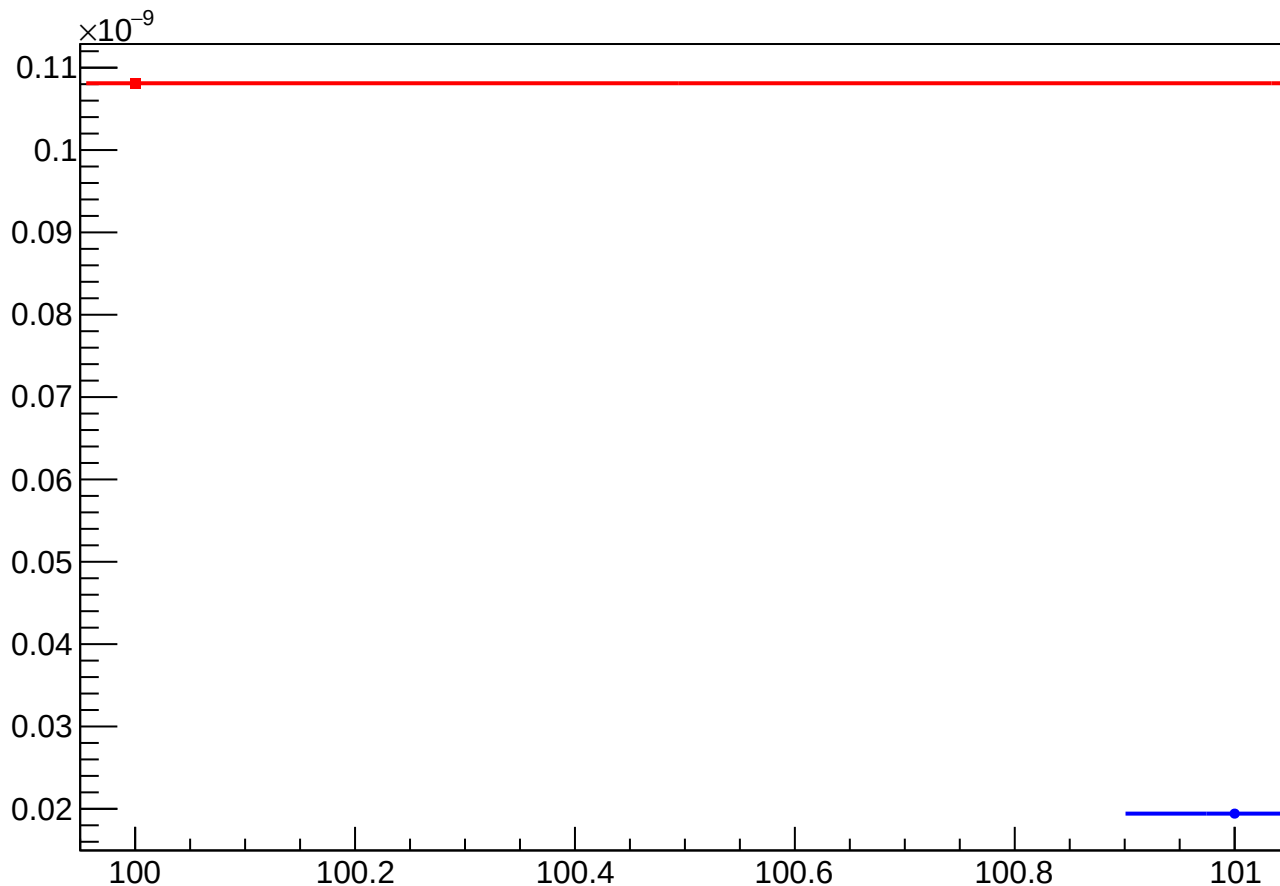
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

asym\_sam\_48\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

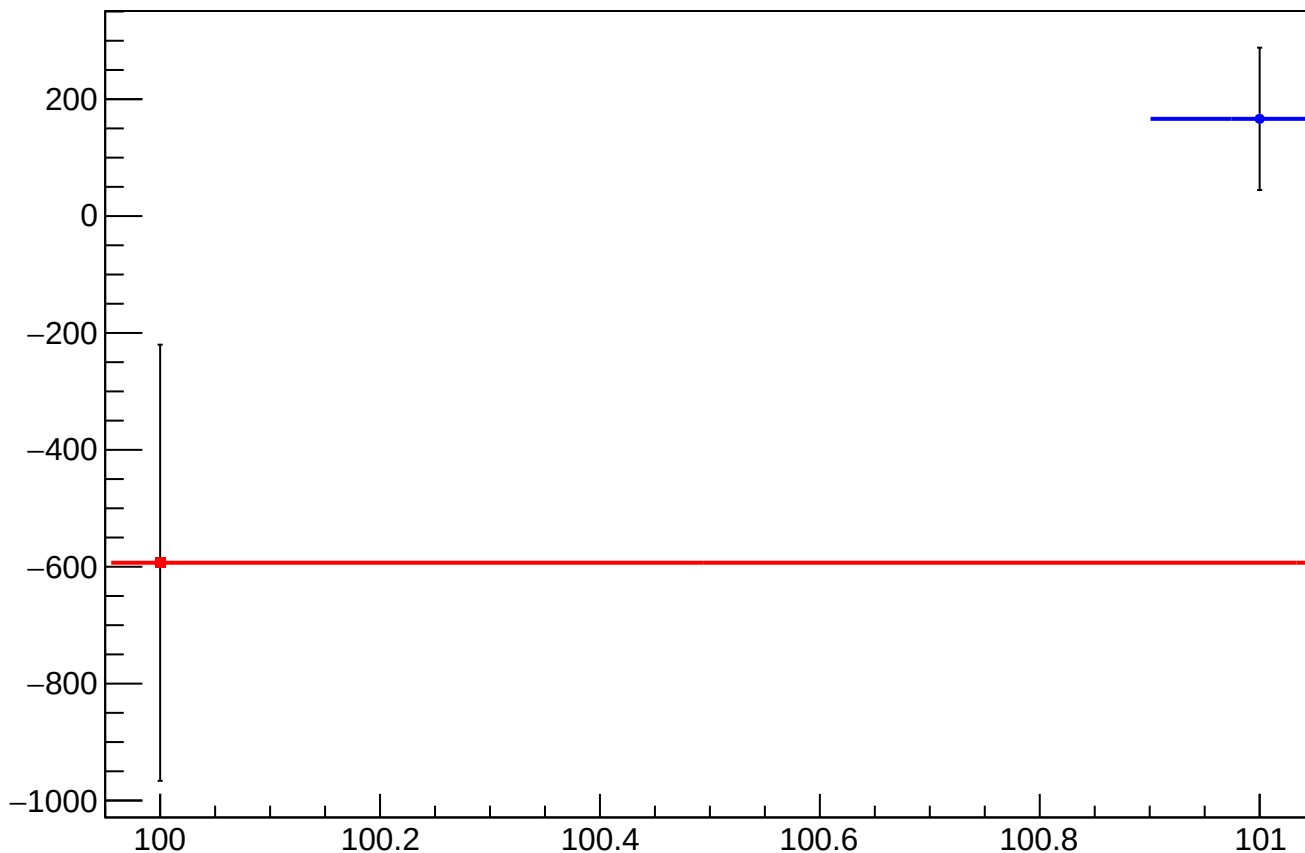
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 79600.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 79600.0/1

reg\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 166.359 $\pm$ 121.788  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -593.150 $\pm$ 373.110  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

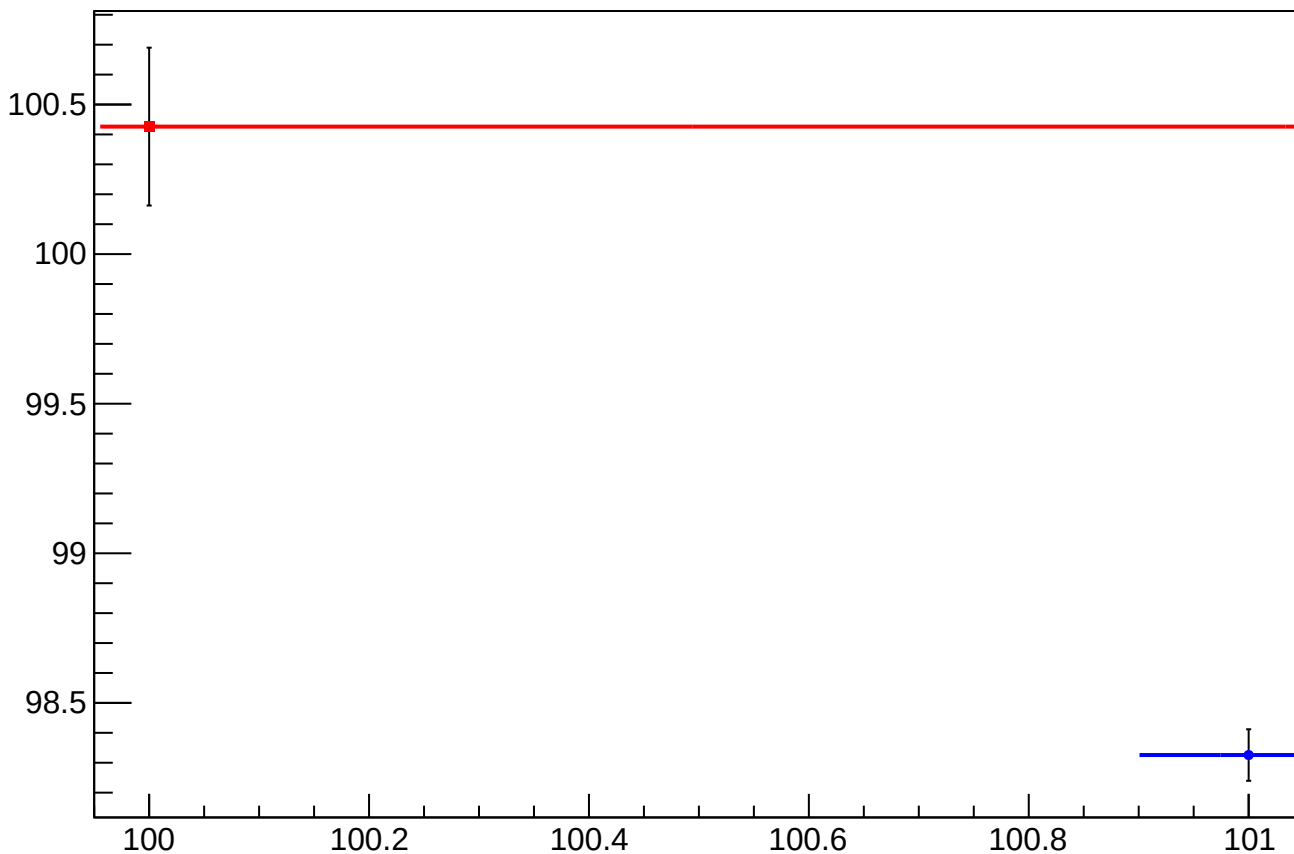
Right: 93.229 $\pm$ 115.776  $\chi^2$ /NDF: 3.7/1

In: 166.359 $\pm$ 121.788  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 93.229 $\pm$ 115.776  $\chi^2$ /NDF: 3.7/1

# reg\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 98.326 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 100.426 $\pm$ 0.264  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 98.528 $\pm$ 0.082  $\chi^2$ /NDF: 57.3/1

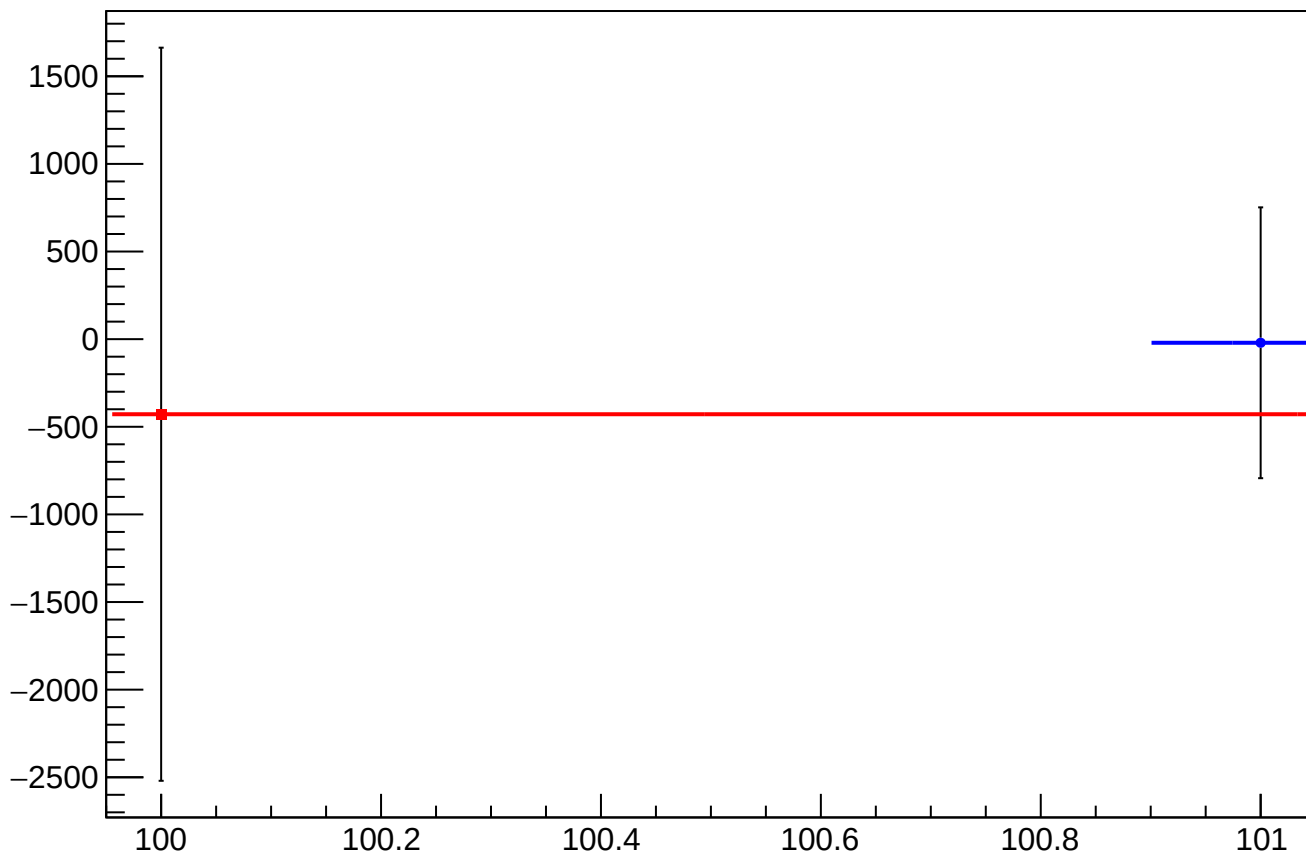
In: 98.326 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 98.528 $\pm$ 0.082  $\chi^2$ /NDF: 57.3/1



asym\_sam\_15\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -20.651+/-772.719  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -428.420+/-2091.658  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

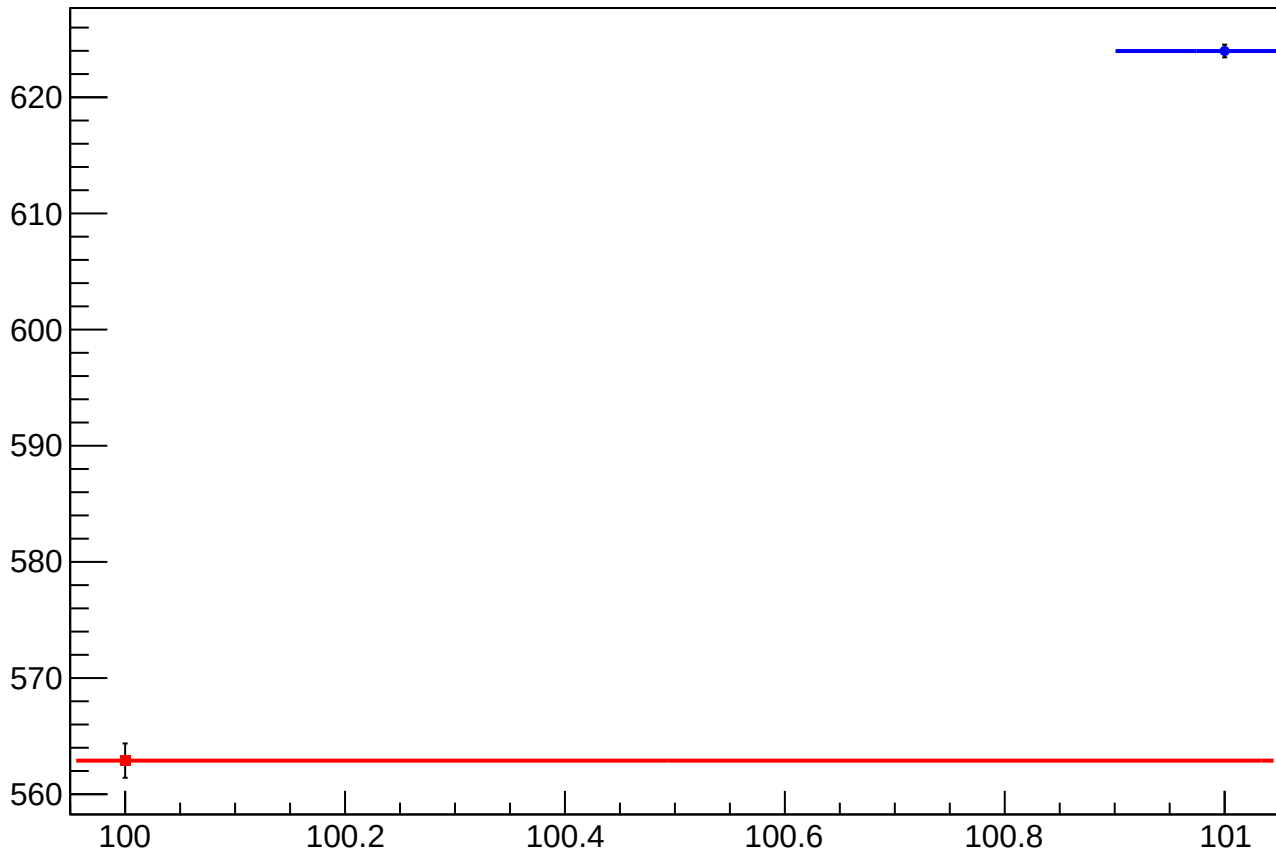
Right: -69.620+/-724.838  $\chi^2/\text{NDF}$ : 0.0/1

In: -20.651+/-772.719  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -69.620+/-724.838  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_15\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 623.983 $\pm$ 0.546  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 562.892 $\pm$ 1.479  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

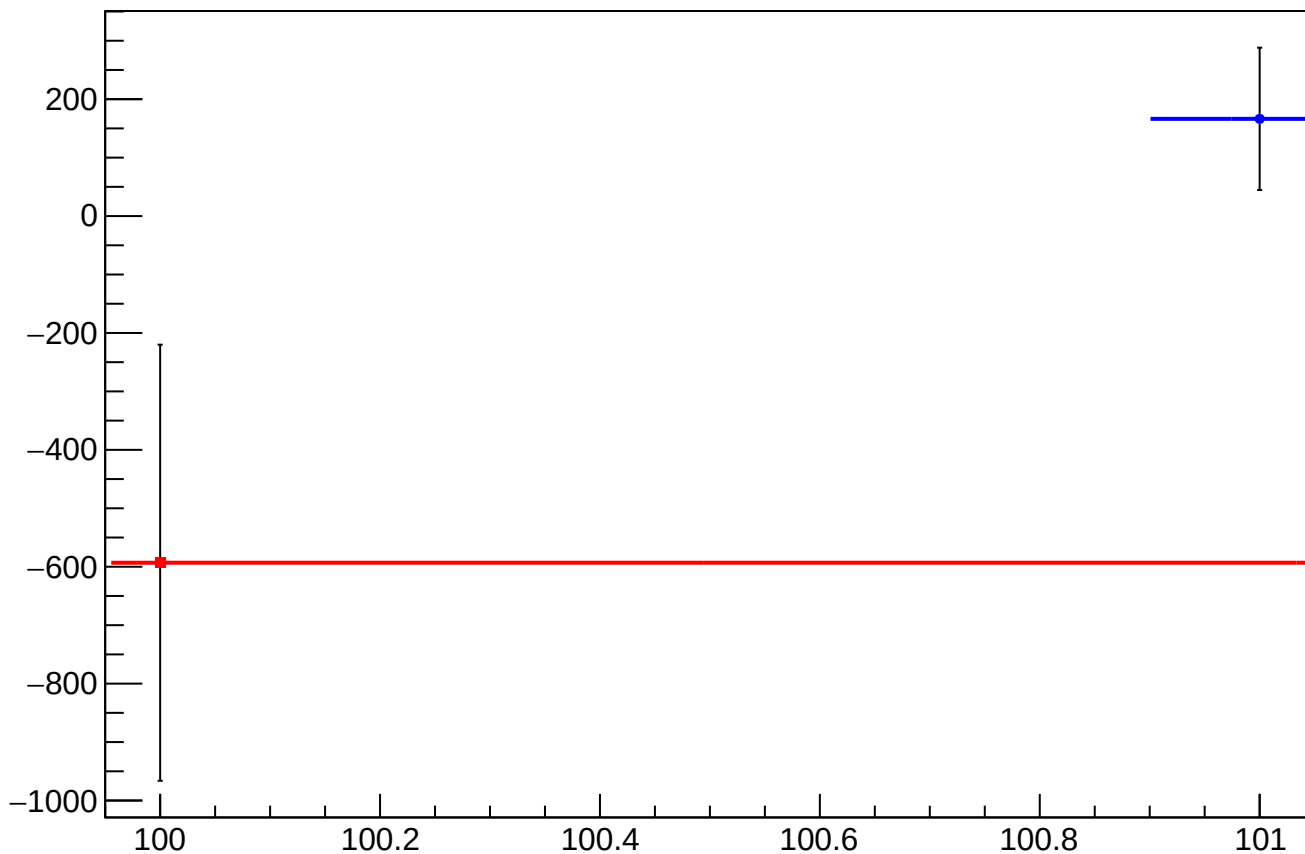
Right: 616.647 $\pm$ 0.513  $\chi^2$ /NDF: 1501.2/1

In: 623.983 $\pm$ 0.546  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 616.647 $\pm$ 0.513  $\chi^2$ /NDF: 1501.2/1

cor\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 166.346 $\pm$ 121.788  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -593.150 $\pm$ 373.110  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

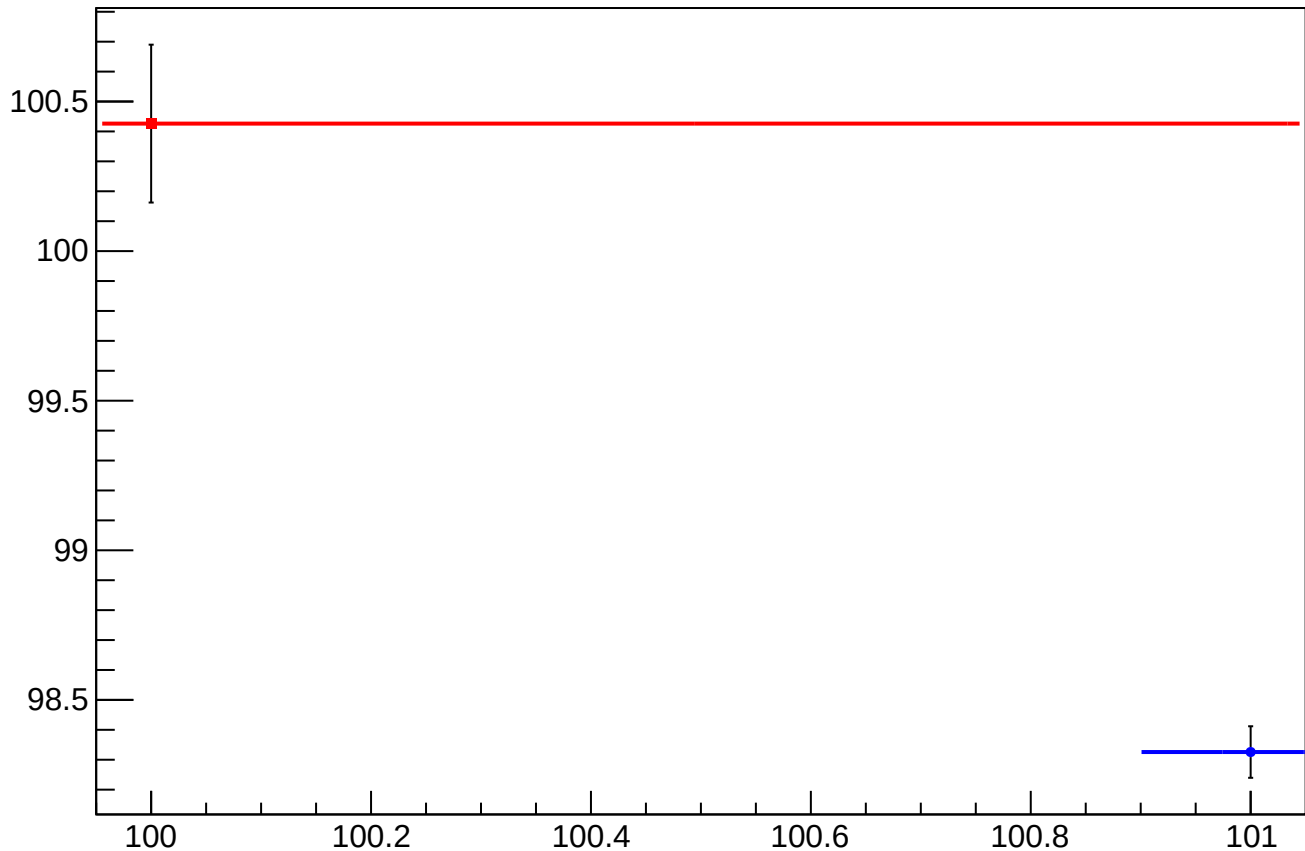
Right: 93.217 $\pm$ 115.776  $\chi^2$ /NDF: 3.7/1

In: 166.346 $\pm$ 121.788  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 93.217 $\pm$ 115.776  $\chi^2$ /NDF: 3.7/1

# cor\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 98.326 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.426 $\pm$ 0.264  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

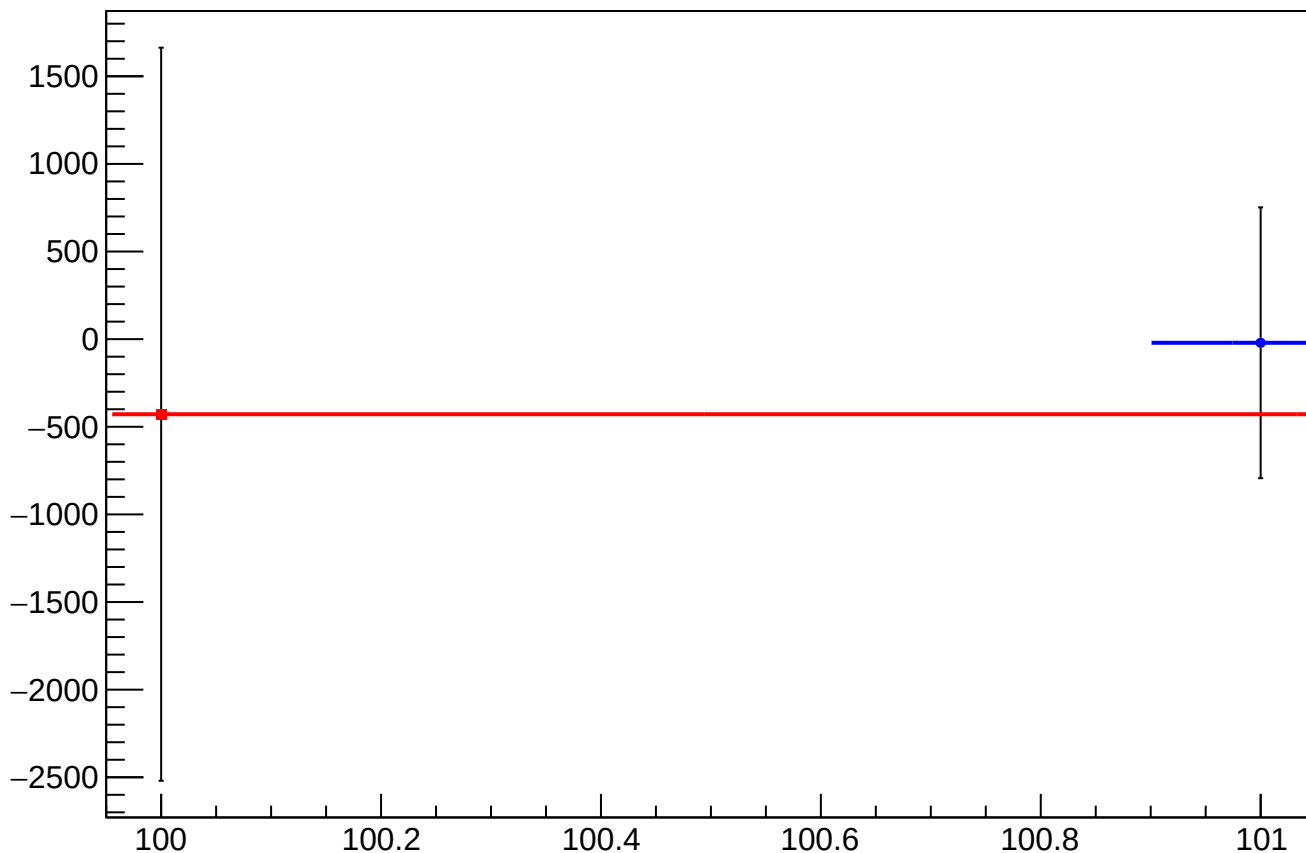
Right: 98.528 $\pm$ 0.082  $\chi^2/\text{NDF}$ : 57.3/1

In: 98.326 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 98.528 $\pm$ 0.082  $\chi^2/\text{NDF}$ : 57.3/1

asym\_sam\_15\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -20.651+/-772.721  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -428.420+/-2091.658  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

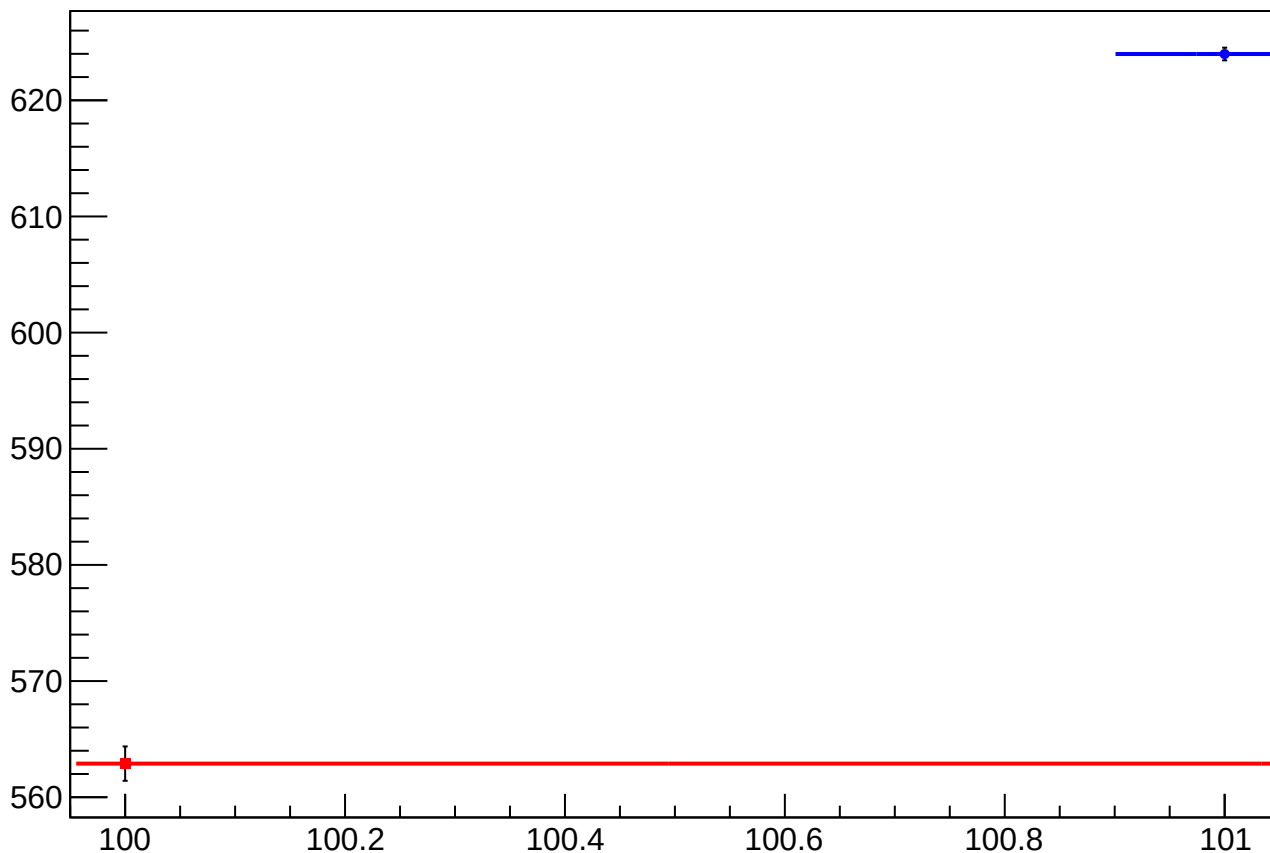
Right: -69.620+/-724.840  $\chi^2/\text{NDF}$ : 0.0/1

In: -20.651+/-772.721  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -69.620+/-724.840  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_15\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 623.985 $\pm$ 0.546  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 562.892 $\pm$ 1.479  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

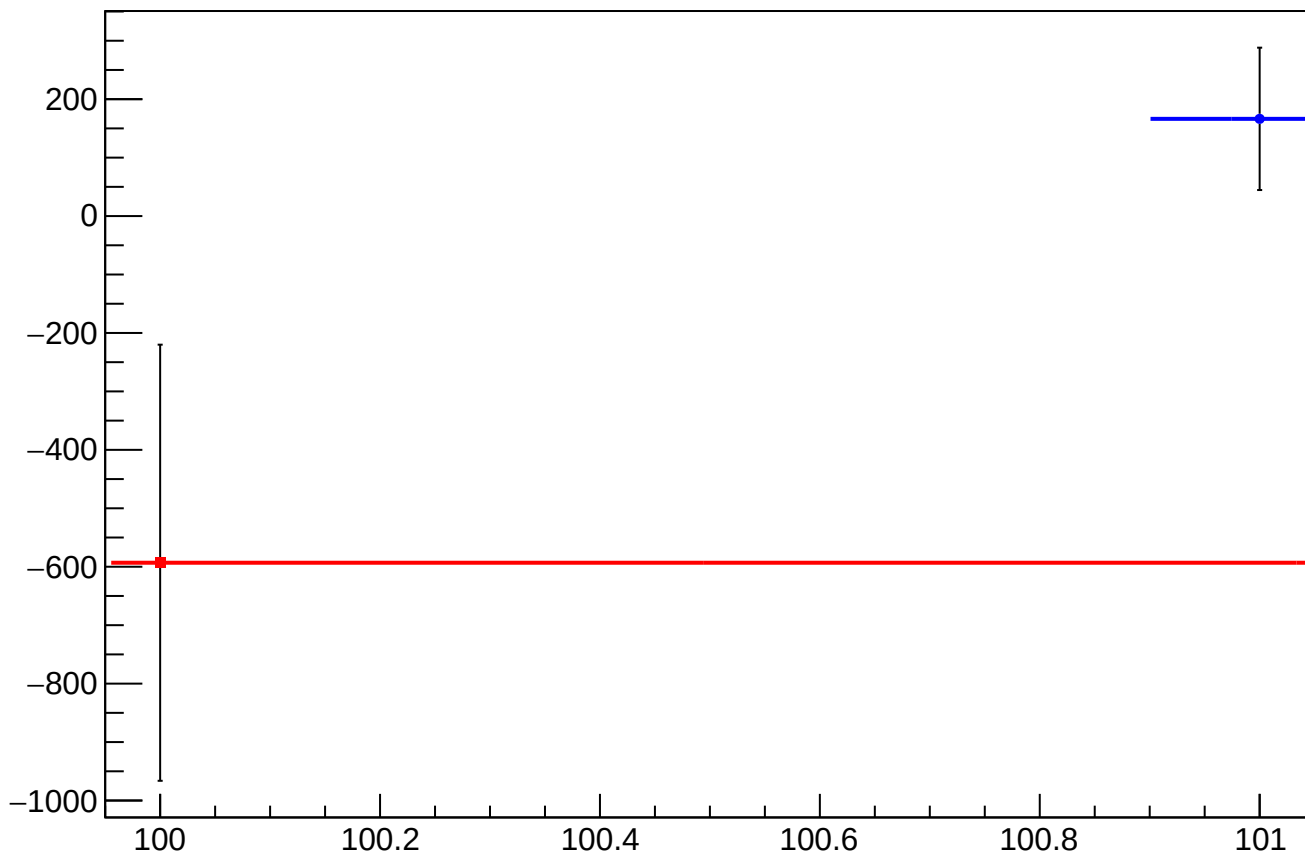
Right: 616.648 $\pm$ 0.513  $\chi^2$ /NDF: 1501.3/1

In: 623.985 $\pm$ 0.546  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 616.648 $\pm$ 0.513  $\chi^2$ /NDF: 1501.3/1

eigen\_cor\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 166.346+/-121.788  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -593.150+/-373.110  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

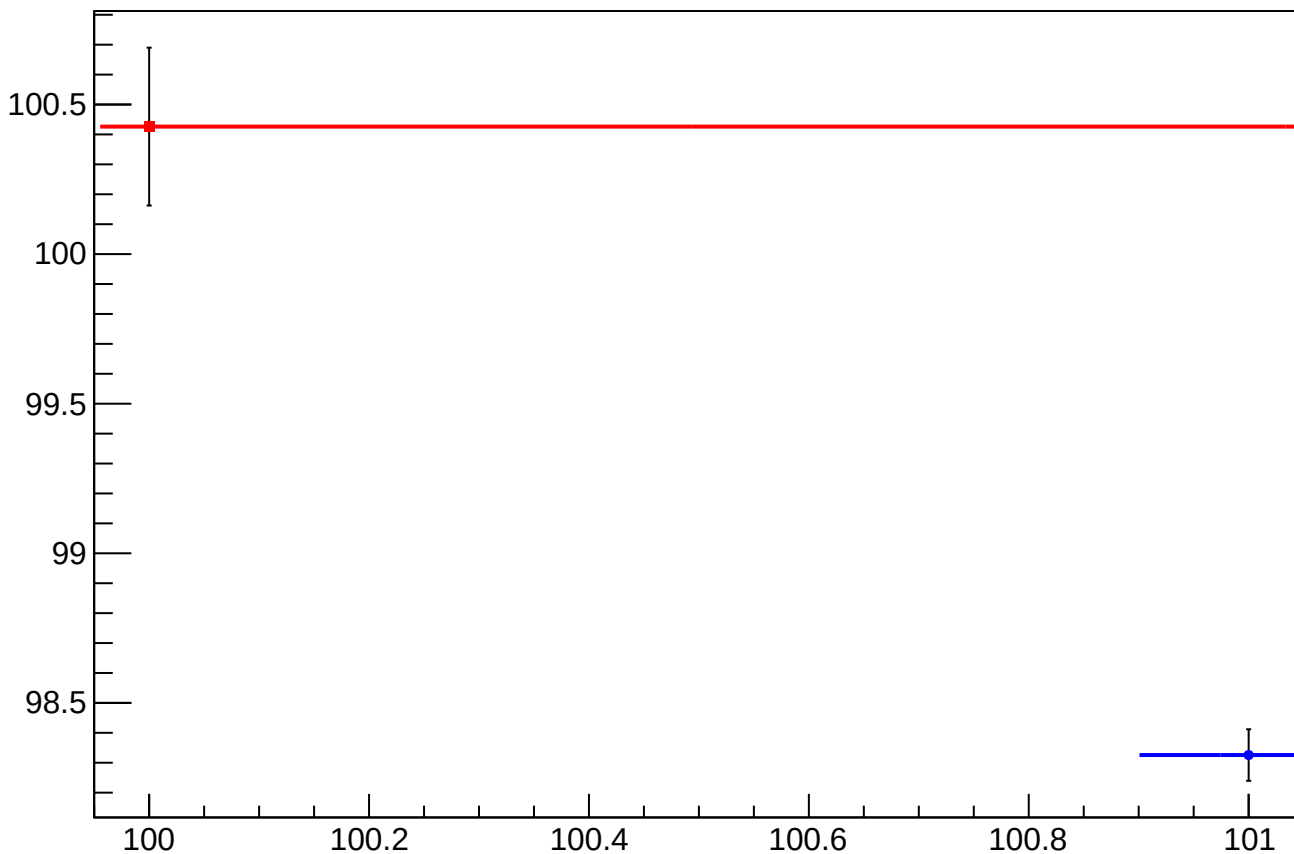
Right: 93.217+/-115.776  $\chi^2/\text{NDF}$ : 3.7/1

In: 166.346+/-121.788  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 93.217+/-115.776  $\chi^2/\text{NDF}$ : 3.7/1

eigen\_cor\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 98.326 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 100.426 $\pm$ 0.264  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 98.528 $\pm$ 0.082  $\chi^2$ /NDF: 57.3/1

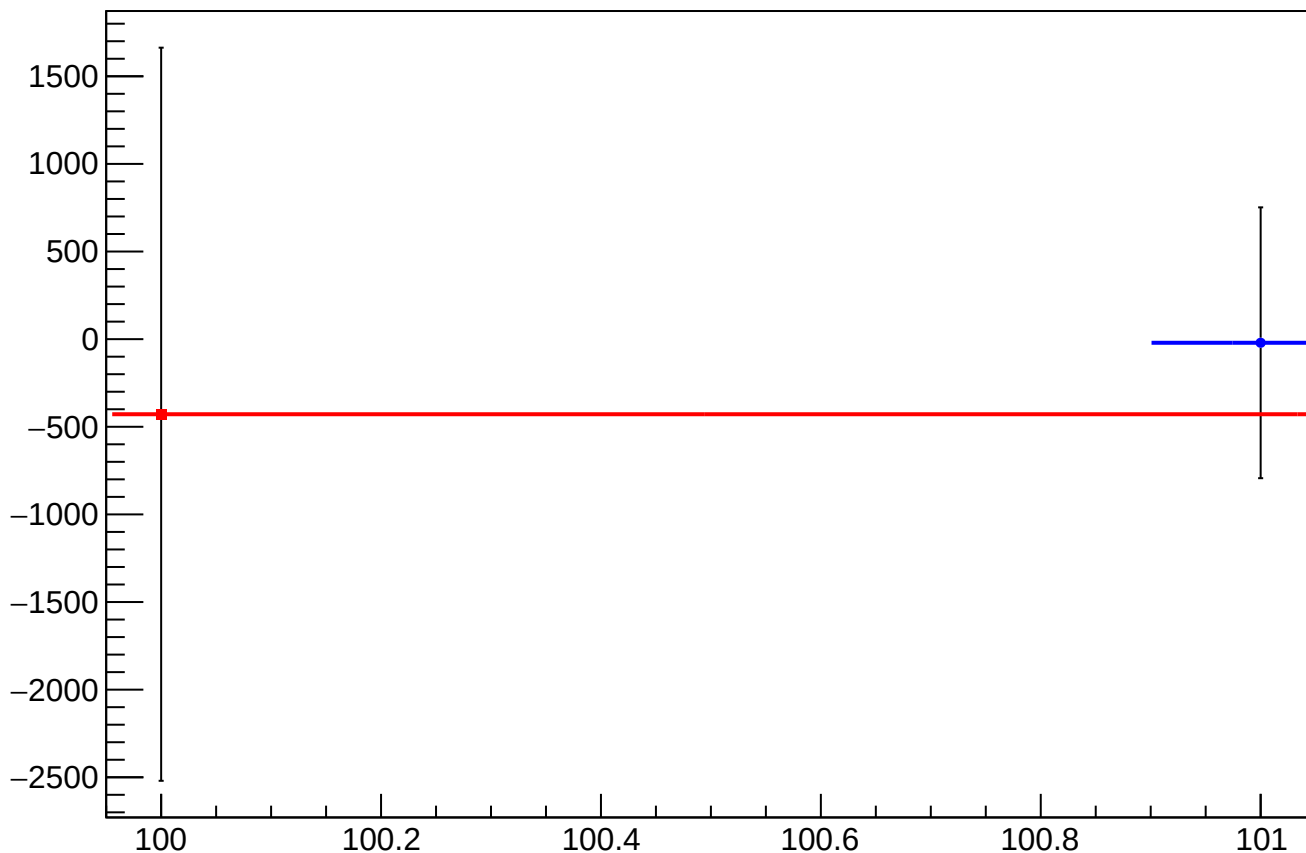
In: 98.326 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 98.528 $\pm$ 0.082  $\chi^2$ /NDF: 57.3/1



asym\_sam\_15\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -20.651+/-772.721  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -428.420+/-2091.658  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

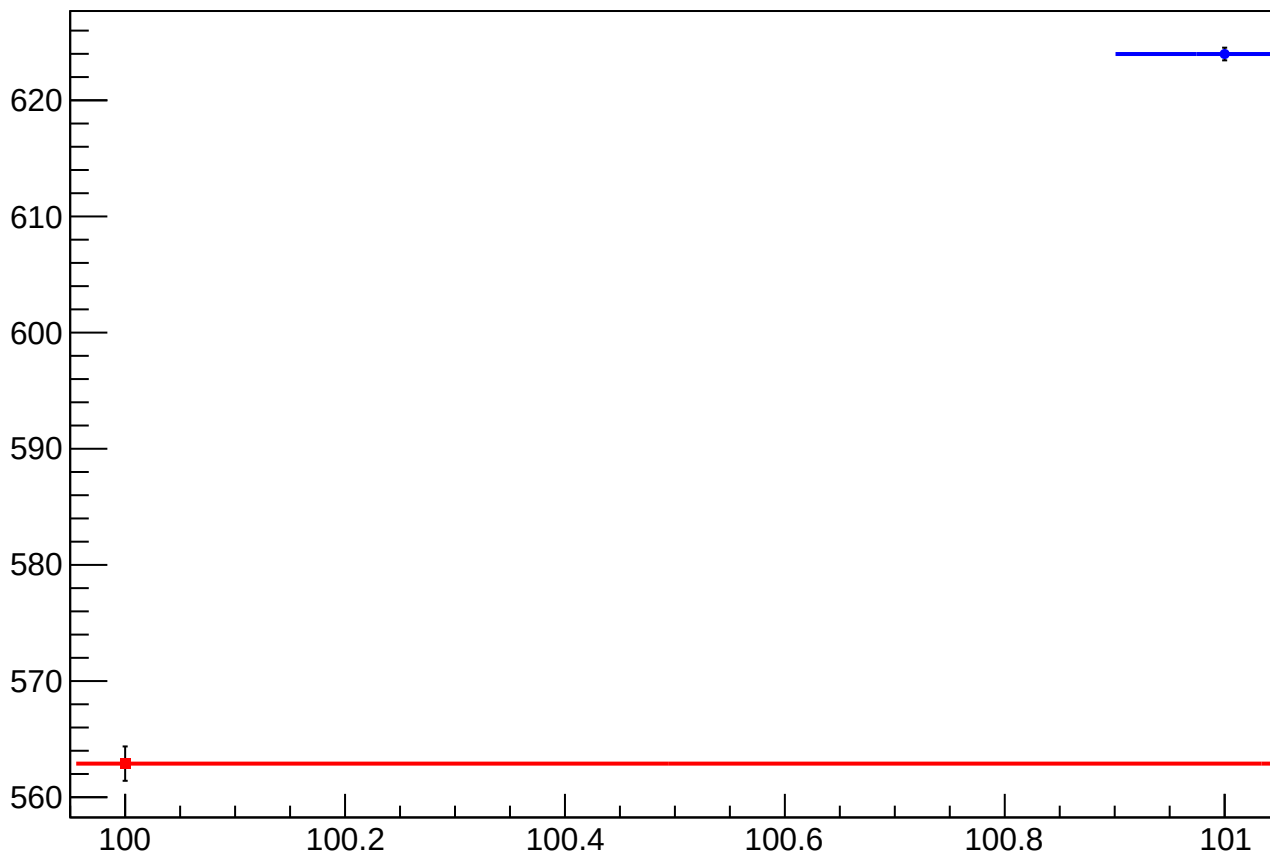
Right: -69.620+/-724.840  $\chi^2/\text{NDF}$ : 0.0/1

In: -20.651+/-772.721  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -69.620+/-724.840  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_15\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 623.985 $\pm$ 0.546  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 562.892 $\pm$ 1.479  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

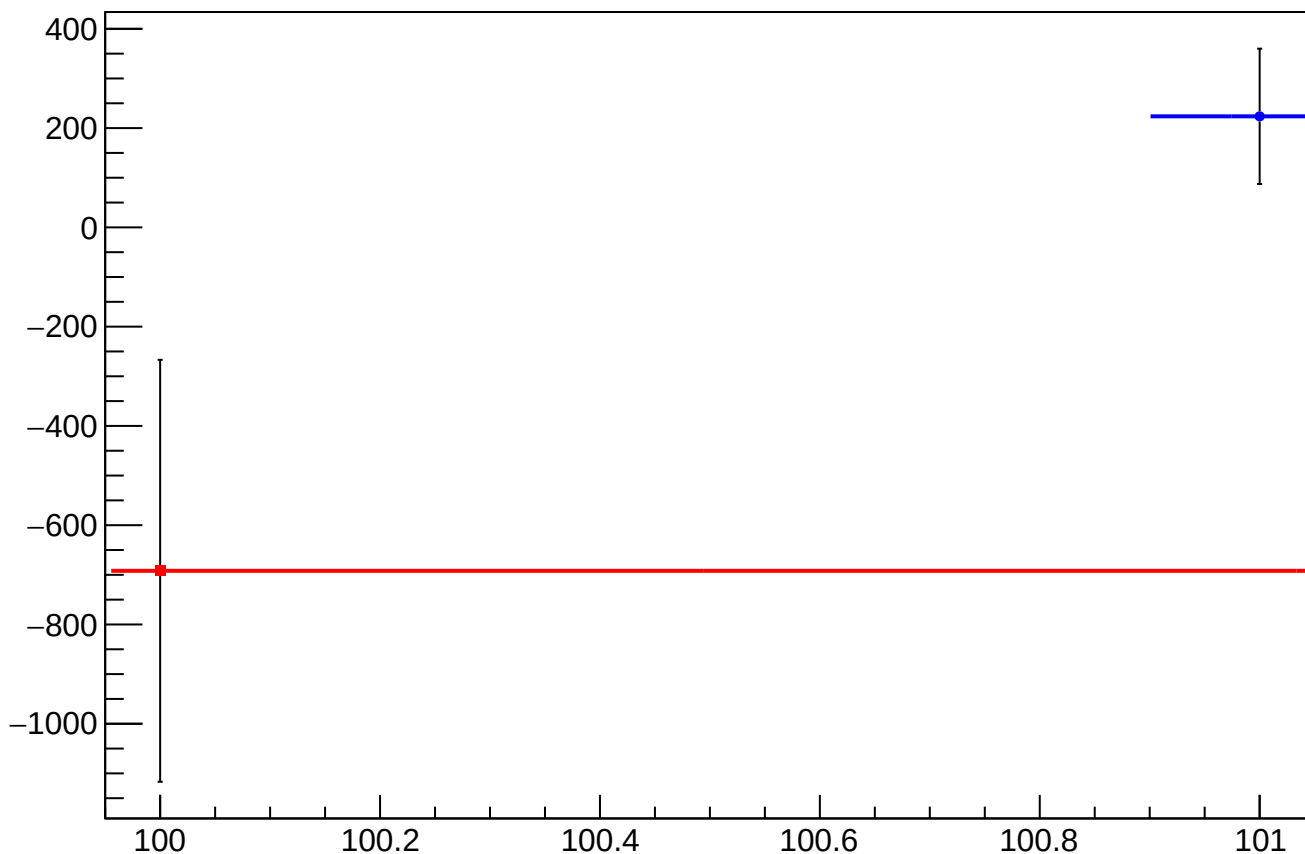
Right: 616.648 $\pm$ 0.513  $\chi^2$ /NDF: 1501.3/1

In: 623.985 $\pm$ 0.546  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 616.648 $\pm$ 0.513  $\chi^2$ /NDF: 1501.3/1

dit\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 223.710 $\pm$ 136.304  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -691.894 $\pm$ 425.067  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

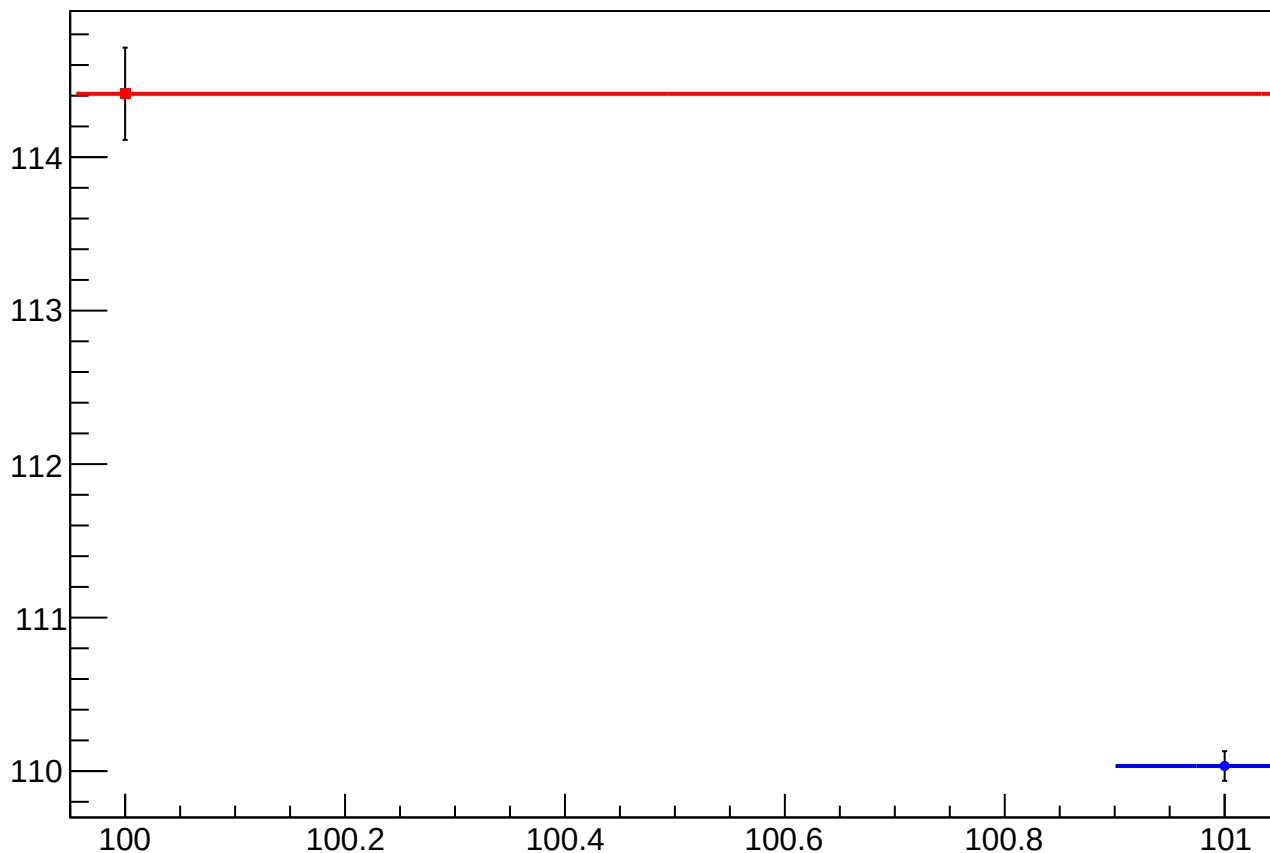
Right: 138.341 $\pm$ 129.794  $\chi^2$ /NDF: 4.2/1

In: 223.710 $\pm$ 136.304  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 138.341 $\pm$ 129.794  $\chi^2$ /NDF: 4.2/1

dit\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 110.033 $\pm$ 0.096  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.413 $\pm$ 0.301  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

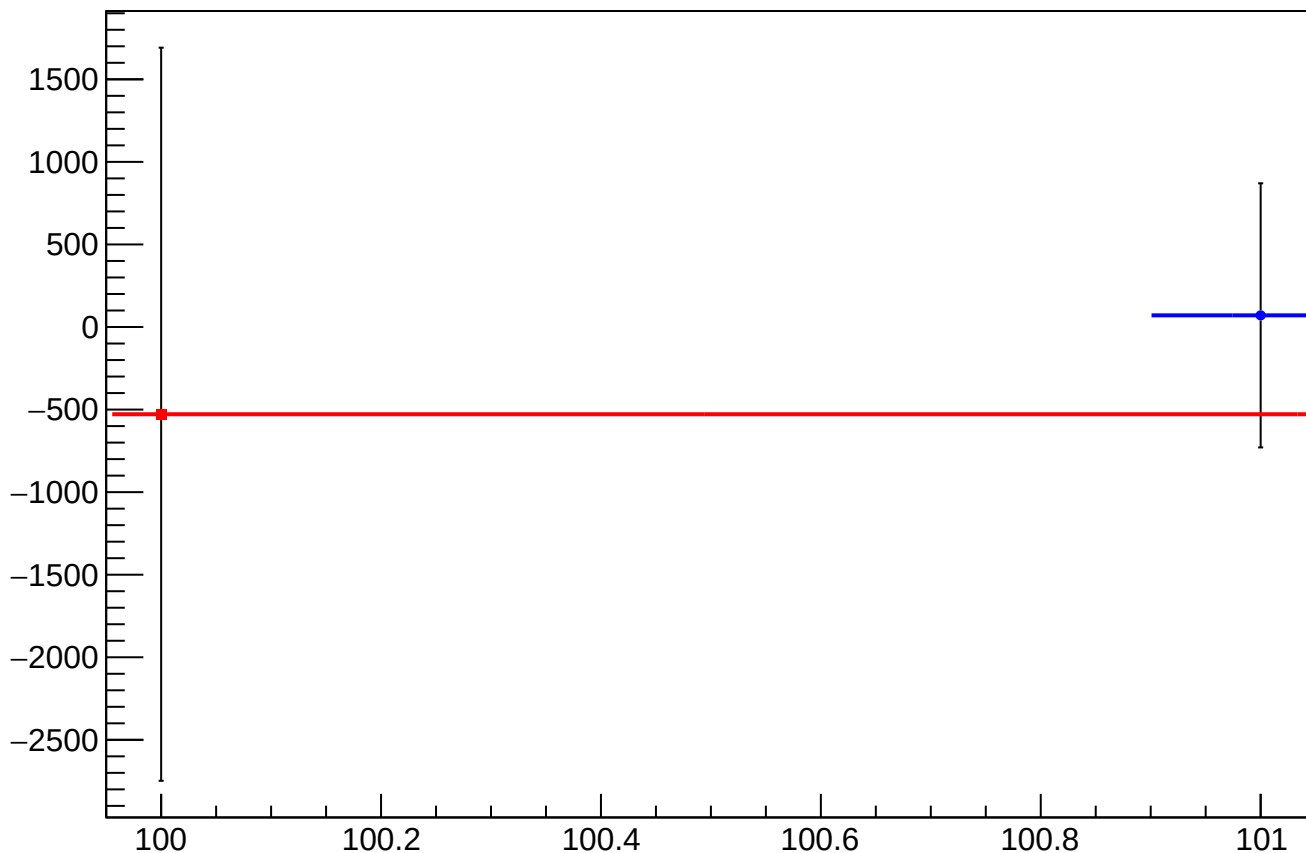
Right: 110.441 $\pm$ 0.092  $\chi^2$ /NDF: 192.5/1

In: 110.033 $\pm$ 0.096  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.441 $\pm$ 0.092  $\chi^2$ /NDF: 192.5/1

asym\_sam\_15\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 70.627 $\pm$ 799.811  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -528.210 $\pm$ 2219.871  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

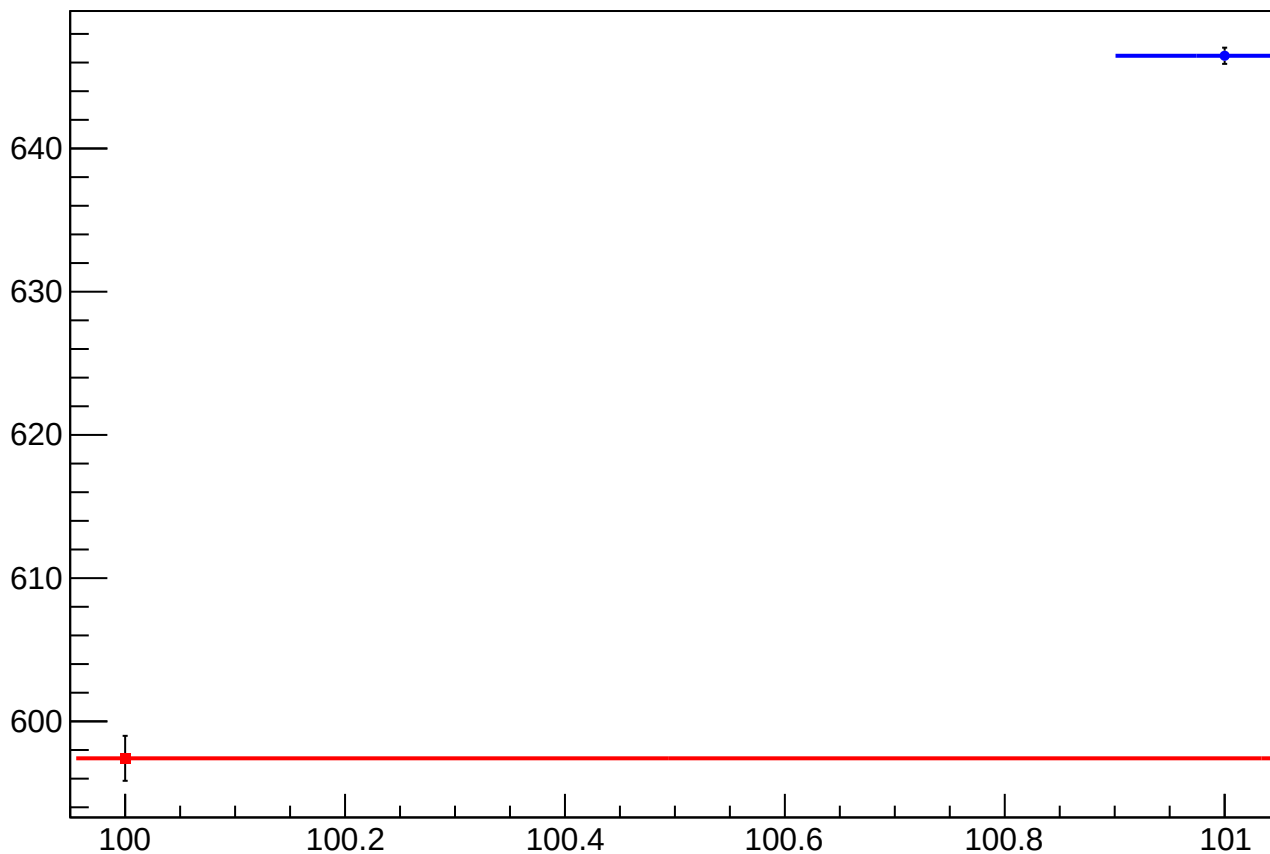
Right: 1.821 $\pm$ 752.461  $\chi^2$ /NDF: 0.1/1

In: 70.627 $\pm$ 799.811  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.821 $\pm$ 752.461  $\chi^2$ /NDF: 0.1/1

asym\_sam\_15\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 646.474 $\pm$ 0.566  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 597.420 $\pm$ 1.570  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

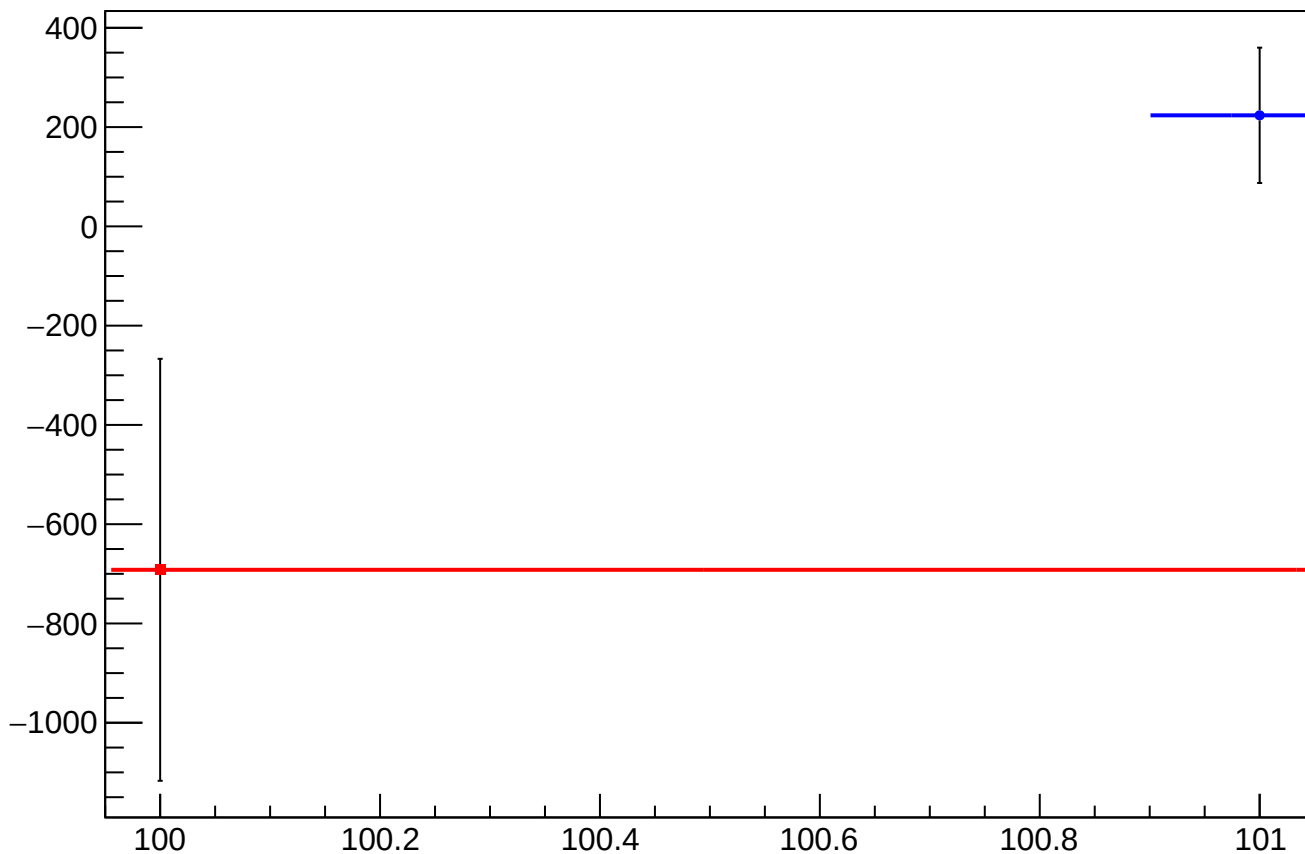
Right: 640.837 $\pm$ 0.532  $\chi^2$ /NDF: 864.4/1

In: 646.474 $\pm$ 0.566  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 640.837 $\pm$ 0.532  $\chi^2$ /NDF: 864.4/1

eigen\_dit\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 223.712+/-136.303  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -691.899+/-425.065  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

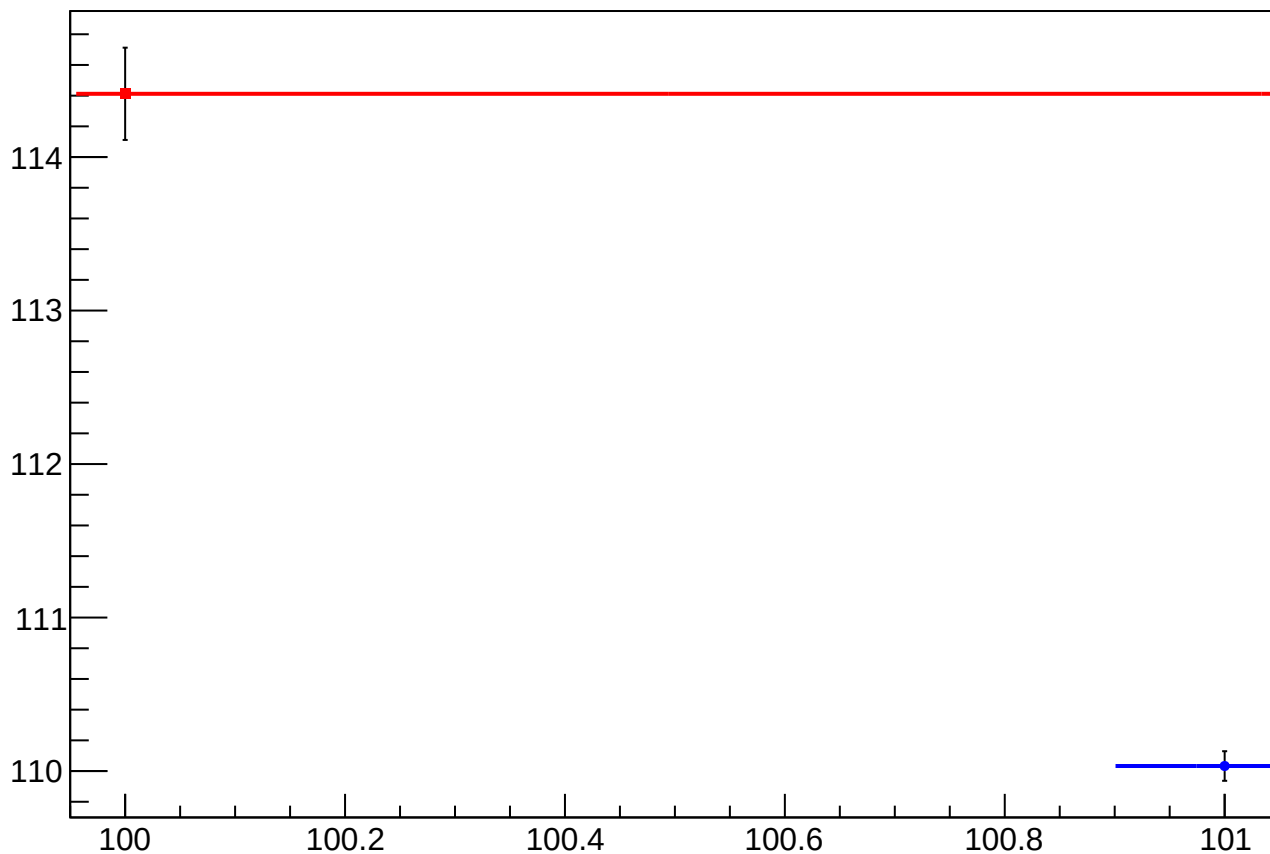
Right: 138.341+/-129.794  $\chi^2/\text{NDF}$ : 4.2/1

In: 223.712+/-136.303  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 138.341+/-129.794  $\chi^2/\text{NDF}$ : 4.2/1

eigen\_dit\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 110.033 $\pm$ 0.096  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 114.412 $\pm$ 0.301  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 110.441 $\pm$ 0.092  $\chi^2$ /NDF: 192.5/1

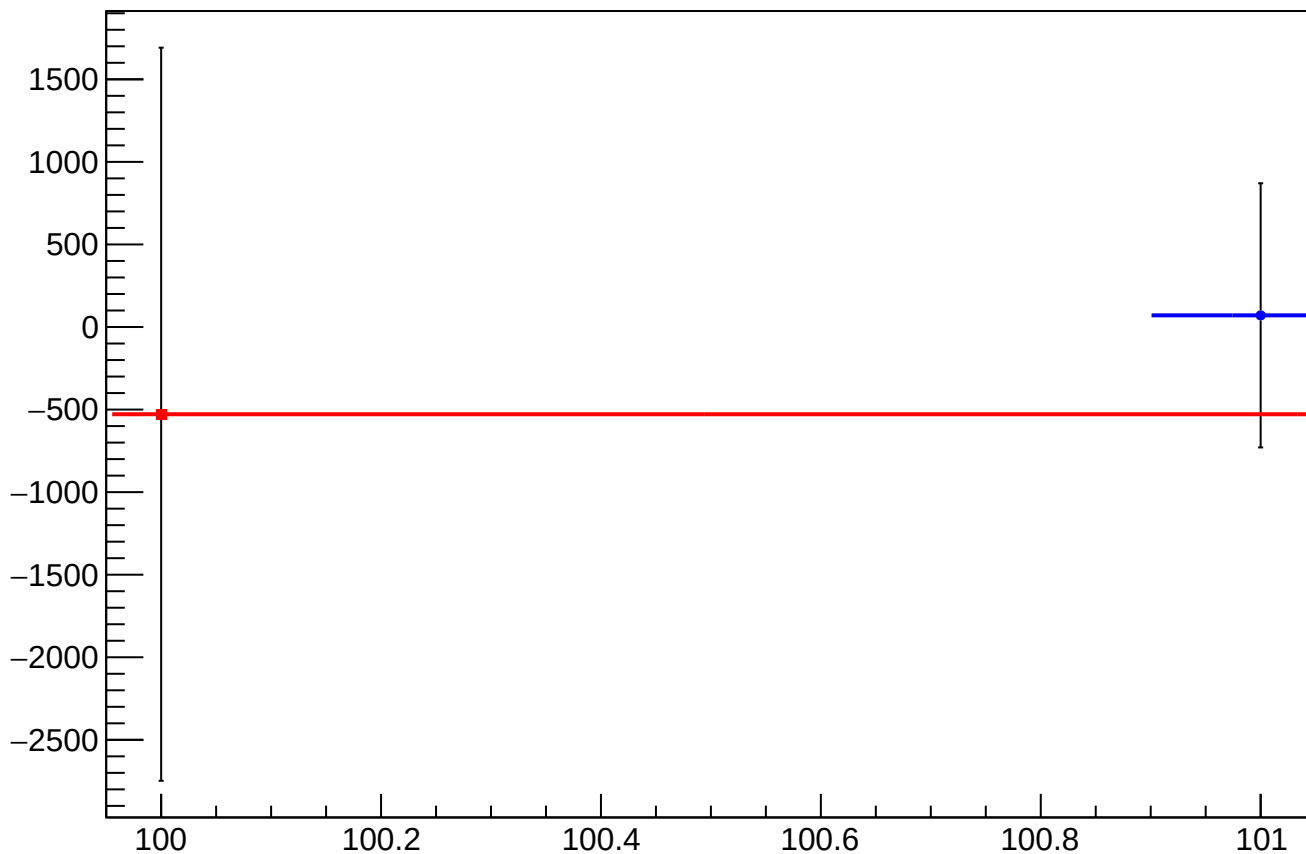
In: 110.033 $\pm$ 0.096  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 110.441 $\pm$ 0.092  $\chi^2$ /NDF: 192.5/1



asym\_sam\_15\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 70.628+/-799.810  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -528.216+/-2219.866  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

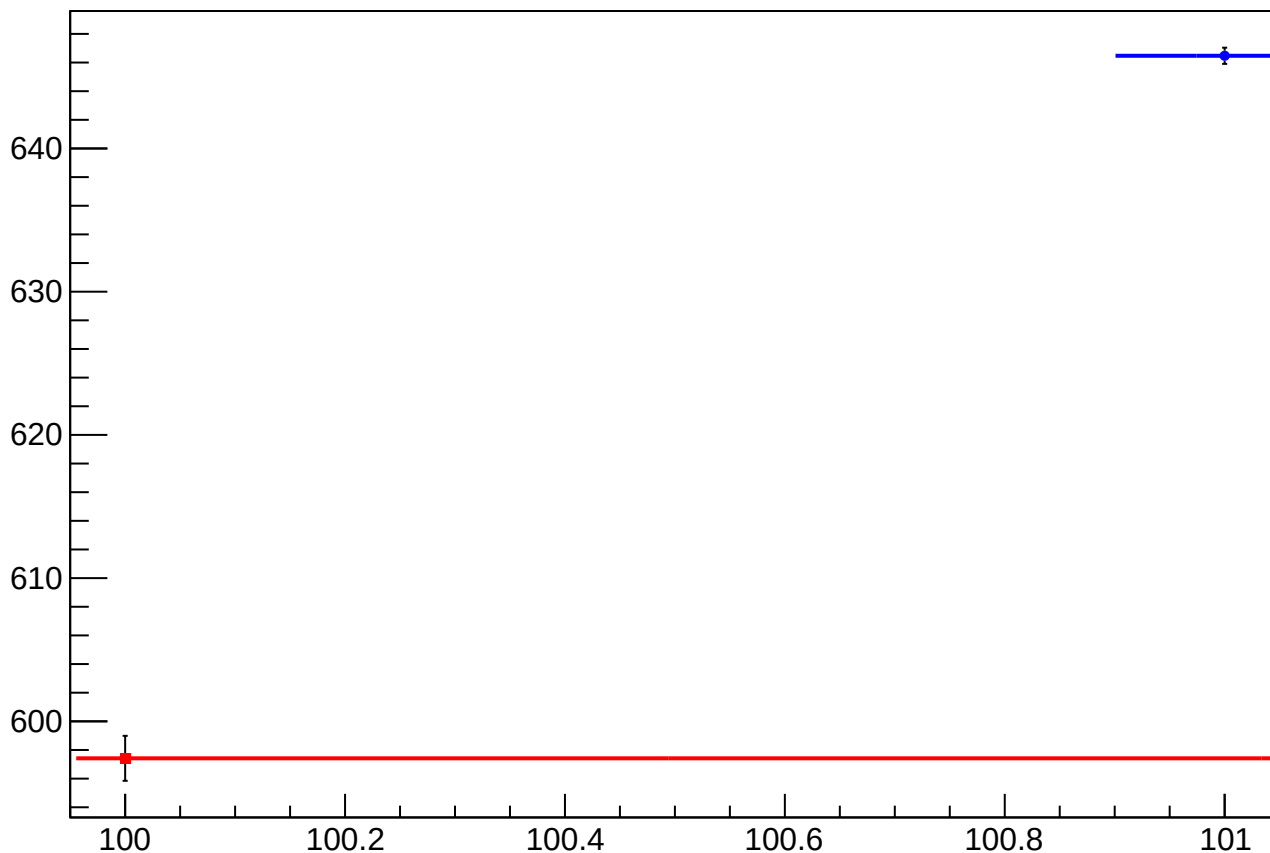
Right: 1.822+/-752.460  $\chi^2/\text{NDF}$ : 0.1/1

In: 70.628+/-799.810  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.822+/-752.460  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_15\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 646.473 $\pm$ 0.566  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 597.418 $\pm$ 1.570  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

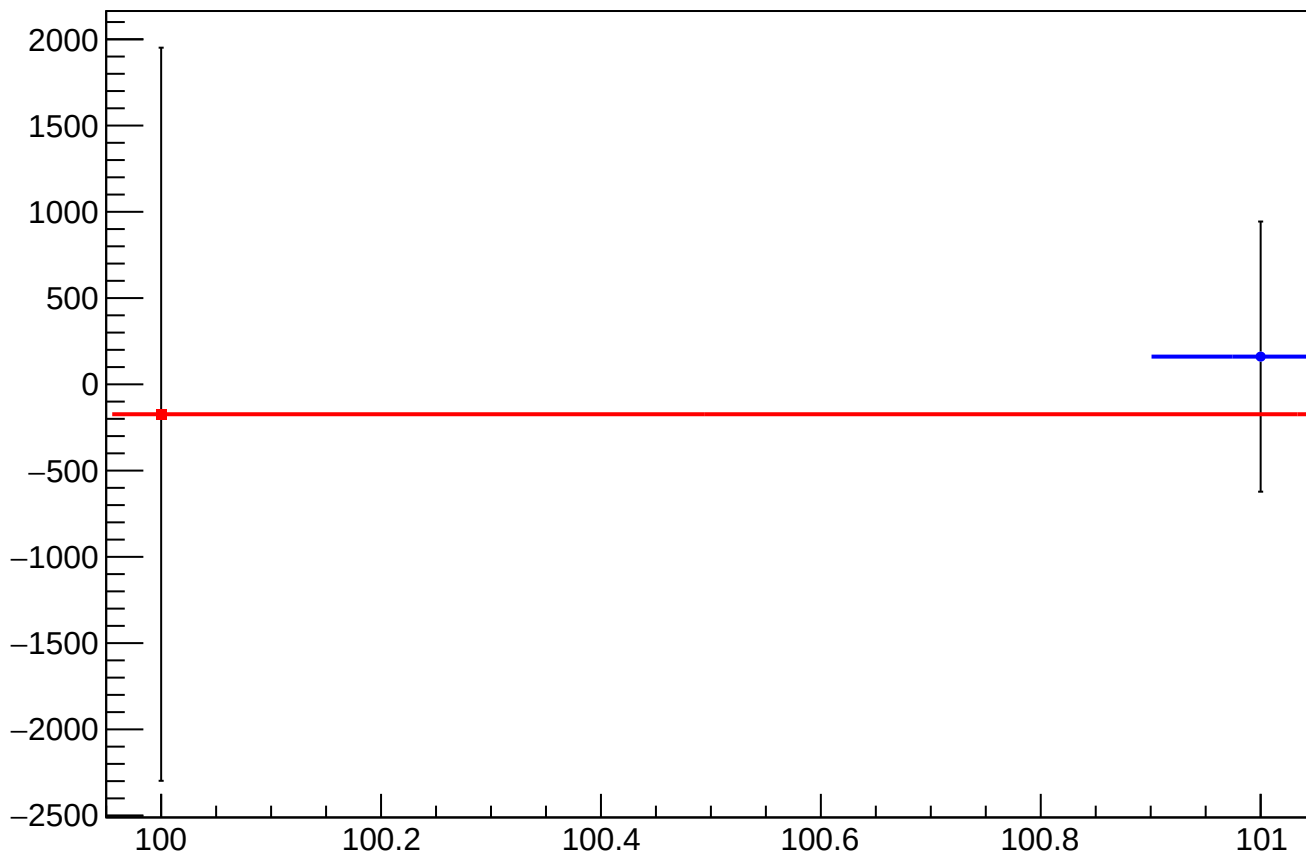
Right: 640.836 $\pm$ 0.532  $\chi^2$ /NDF: 864.4/1

In: 646.473 $\pm$ 0.566  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 640.836 $\pm$ 0.532  $\chi^2$ /NDF: 864.4/1

asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 160.725 $\pm$ 782.937  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -173.304 $\pm$ -2124.742  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

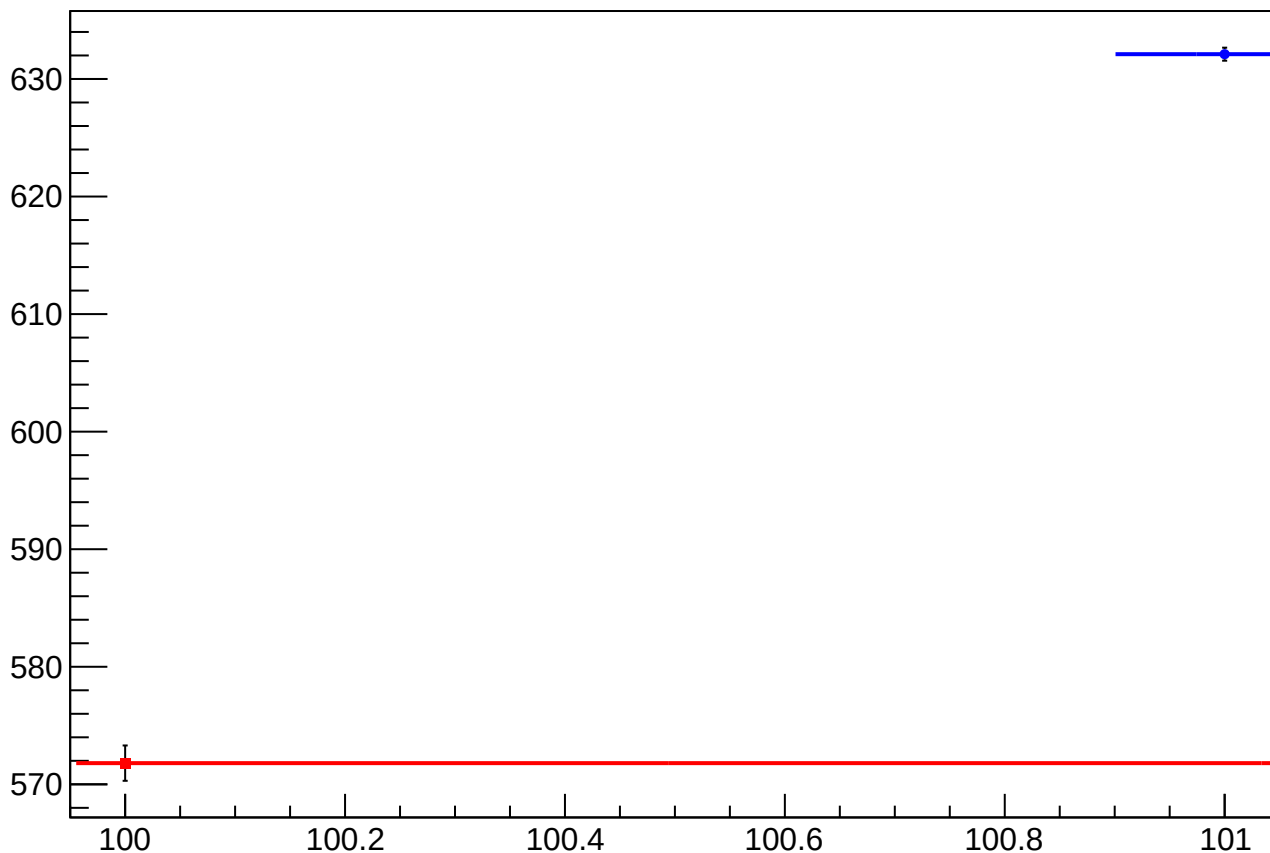
Right: 120.792 $\pm$ -734.648  $\chi^2$ /NDF: 0.0/1

In: 160.725 $\pm$ -782.937  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

All: 120.792 $\pm$ -734.648  $\chi^2$ /NDF: 0.0/1

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 632.110 $\pm$ 0.554  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 571.803 $\pm$ 1.502  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

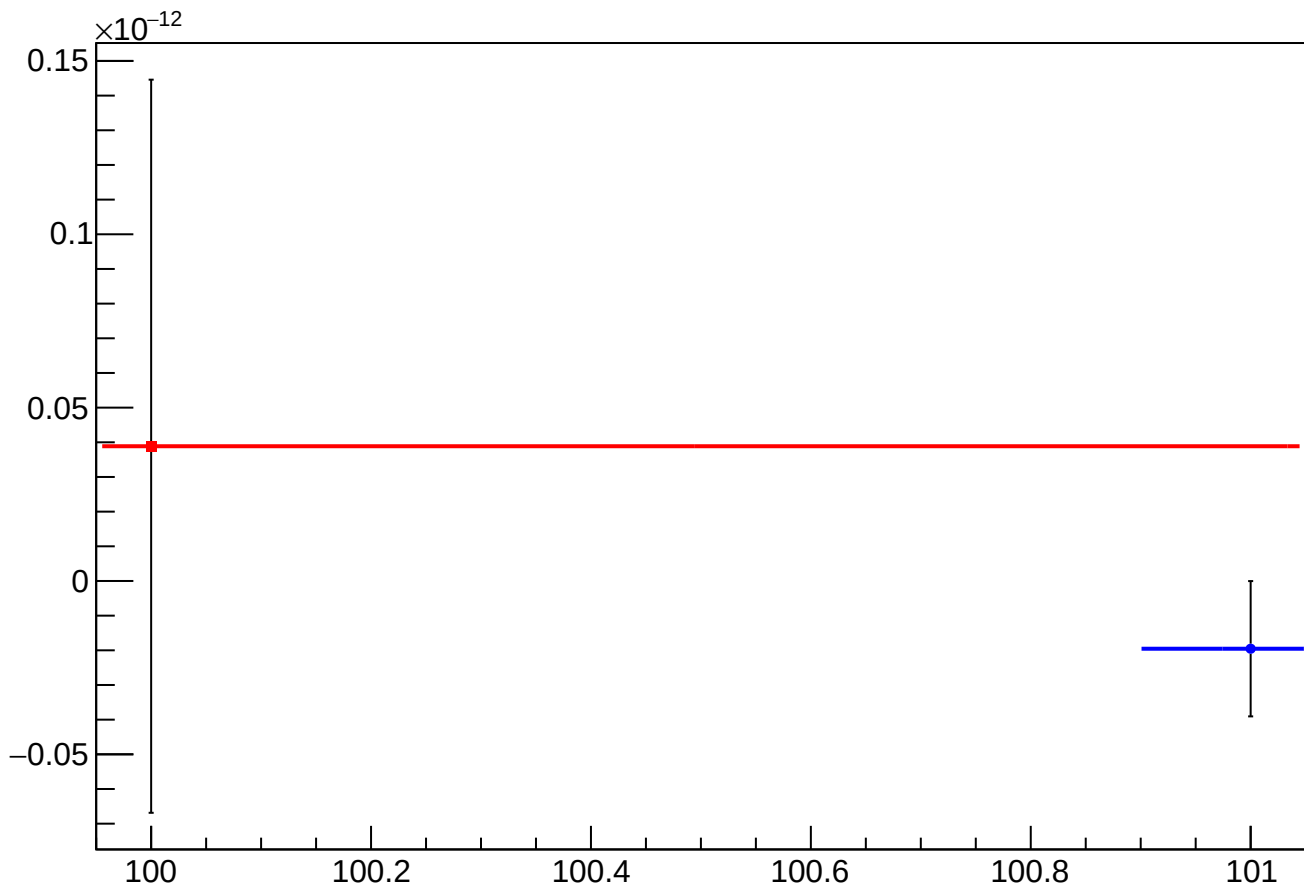
Right: 624.900 $\pm$ 0.519  $\chi^2$ /NDF: 1418.6/1

In: 632.110 $\pm$ 0.554  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 624.900 $\pm$ 0.519  $\chi^2$ /NDF: 1418.6/1

asym\_sam\_15\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

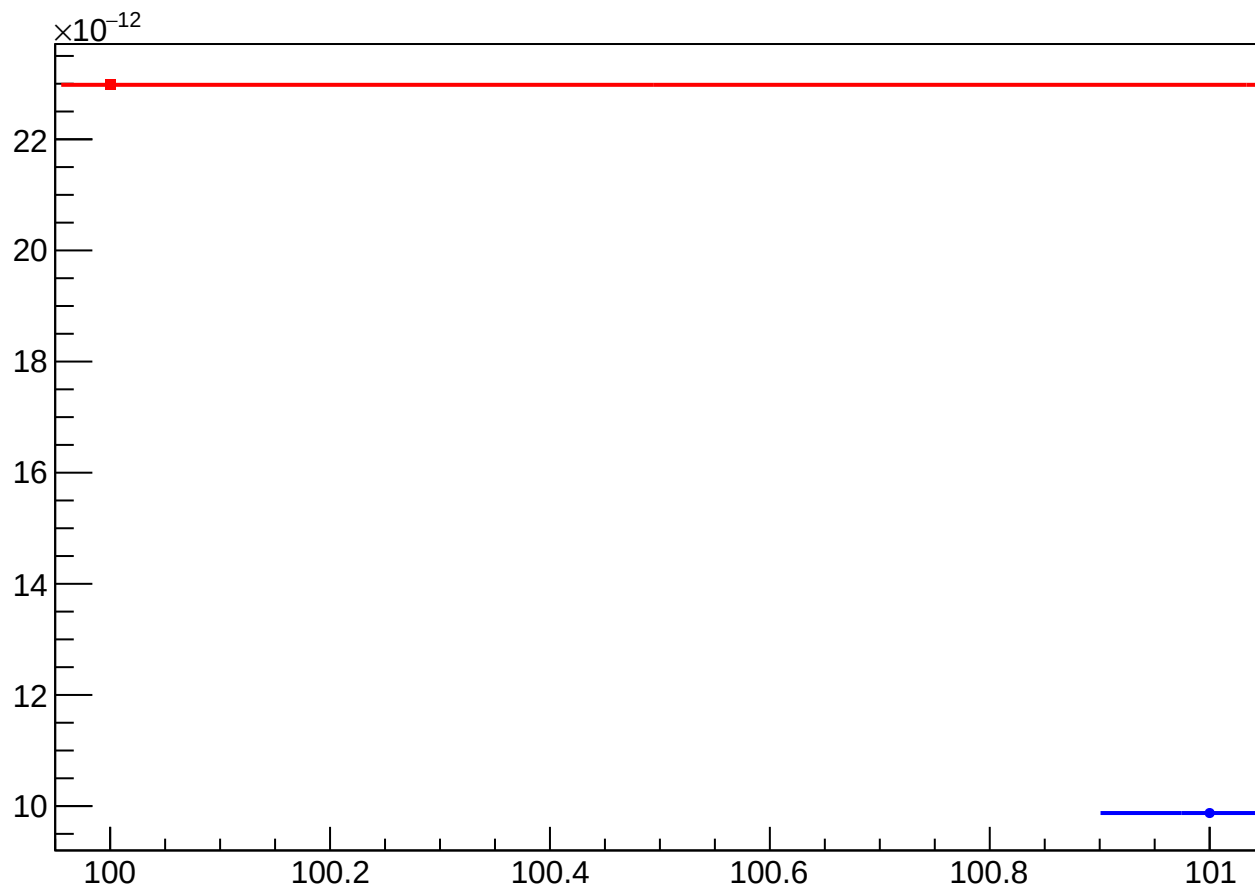
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

asym\_sam\_15\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

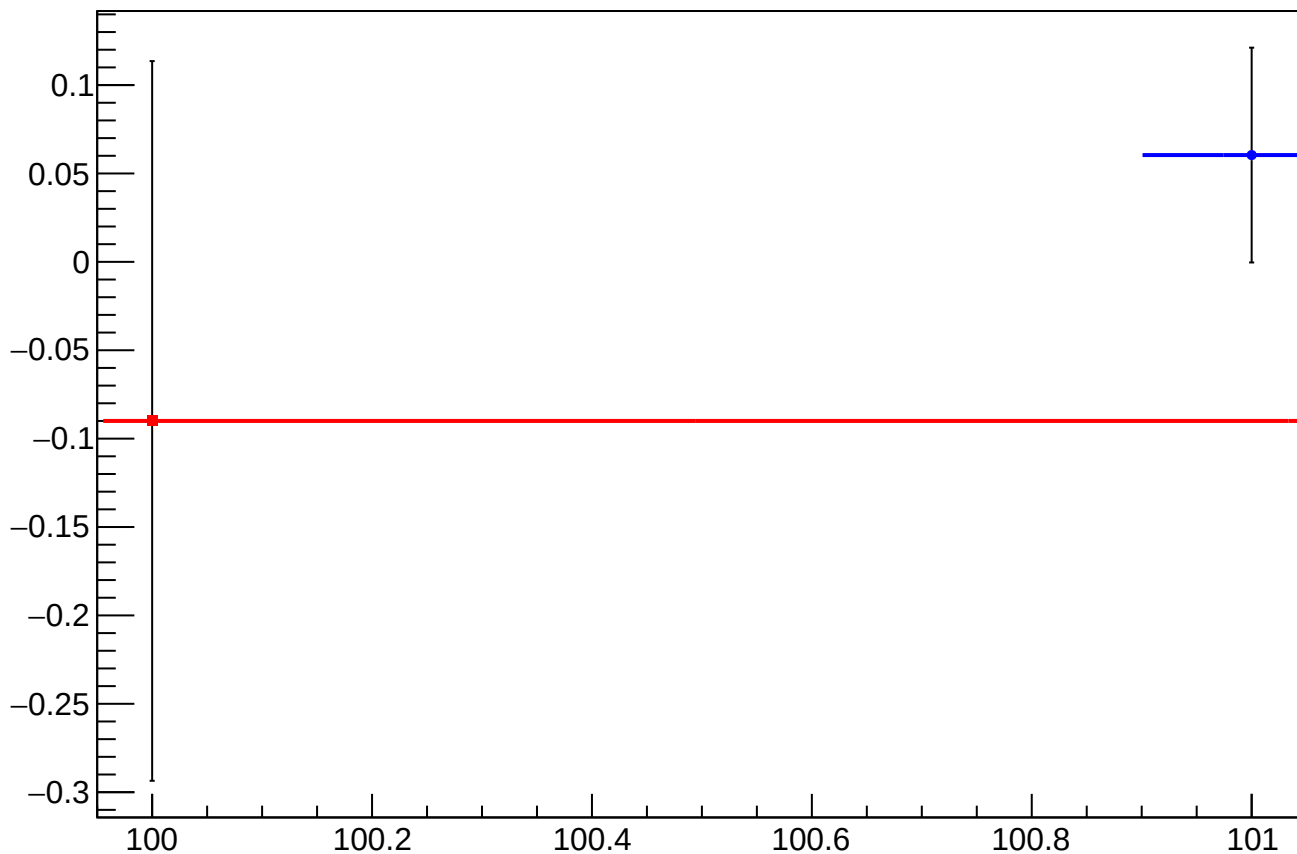
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29715.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 29715.4/1

asym\_sam\_15\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.060 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.090 $\pm$ 0.204  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.048 $\pm$ 0.058  $\chi^2$ /NDF: 0.5/1

In: 0.060 $\pm$ 0.061  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.048 $\pm$ 0.058  $\chi^2$ /NDF: 0.5/1

asym\_sam\_15\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 49.061 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.790 $\pm$ 0.144  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 49.530 $\pm$ 0.041  $\chi^2$ /NDF: 1454.1/1

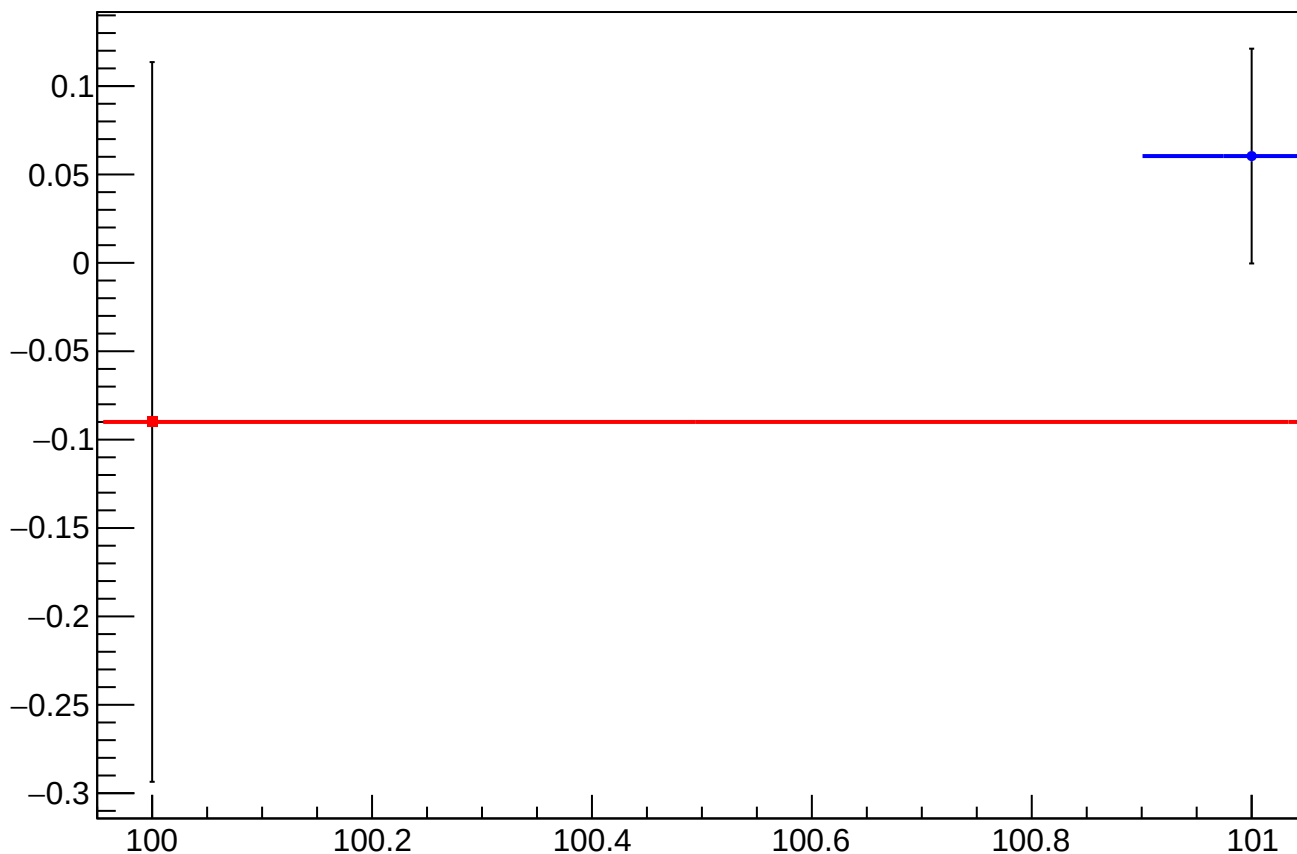
In: 49.061 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.530 $\pm$ 0.041  $\chi^2$ /NDF: 1454.1/1



asym\_sam\_15\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.060 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.090 $\pm$ 0.204  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

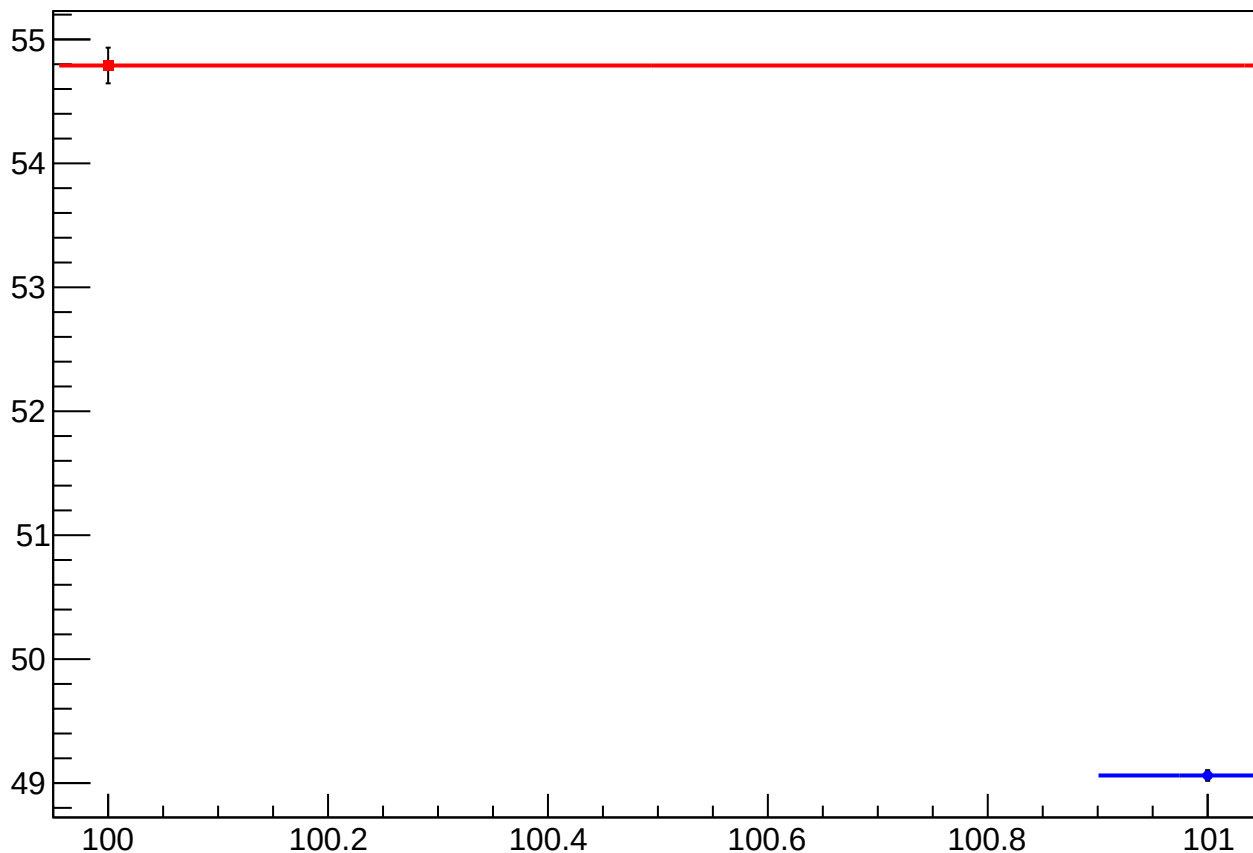
Right: 0.048 $\pm$ 0.058  $\chi^2$ /NDF: 0.5/1

In: 0.060 $\pm$ 0.061  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.048 $\pm$ 0.058  $\chi^2$ /NDF: 0.5/1

asym\_sam\_15\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 49.061 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.790 $\pm$ 0.144  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

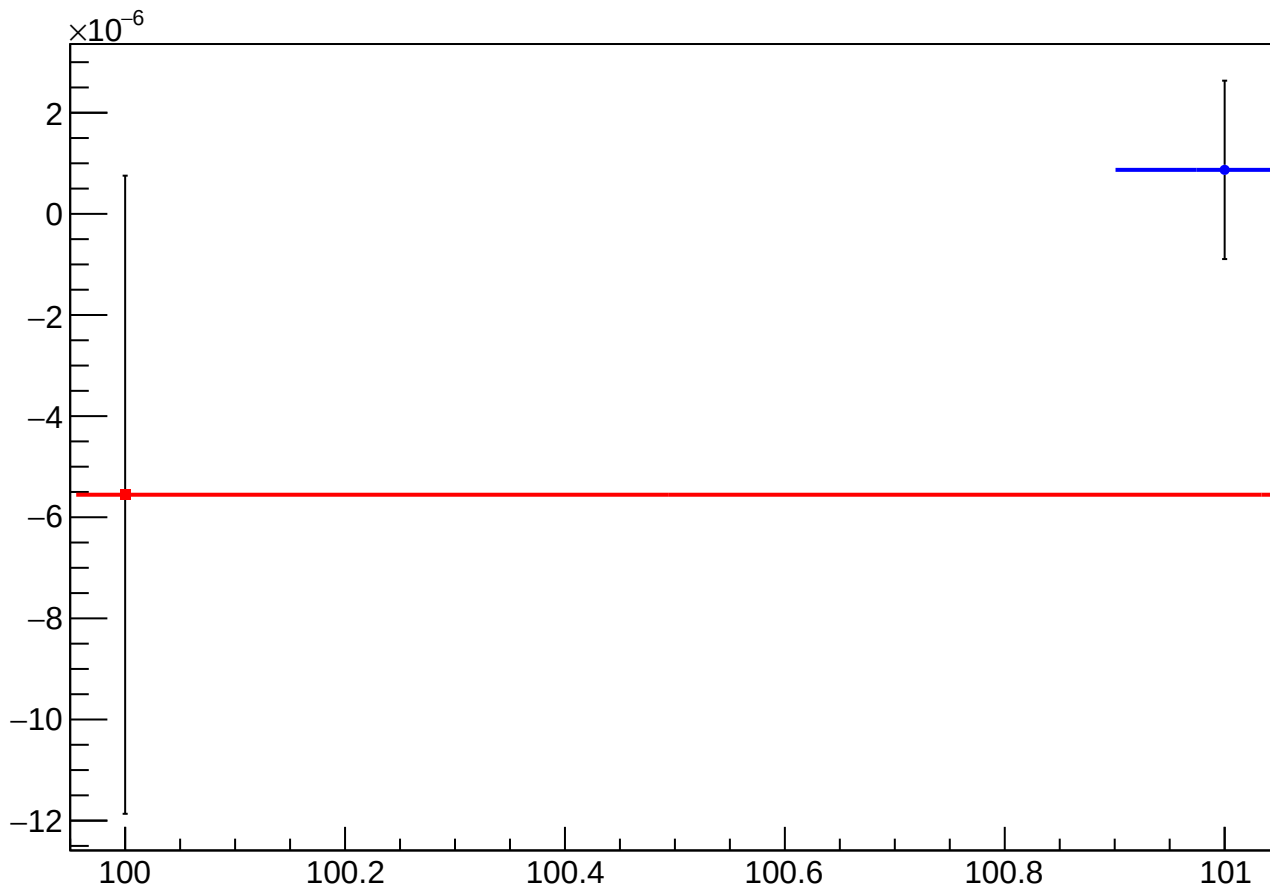
Right: 49.530 $\pm$ 0.041  $\chi^2$ /NDF: 1454.1/1

In: 49.061 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.530 $\pm$ 0.041  $\chi^2$ /NDF: 1454.1/1

asym\_sam\_15\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

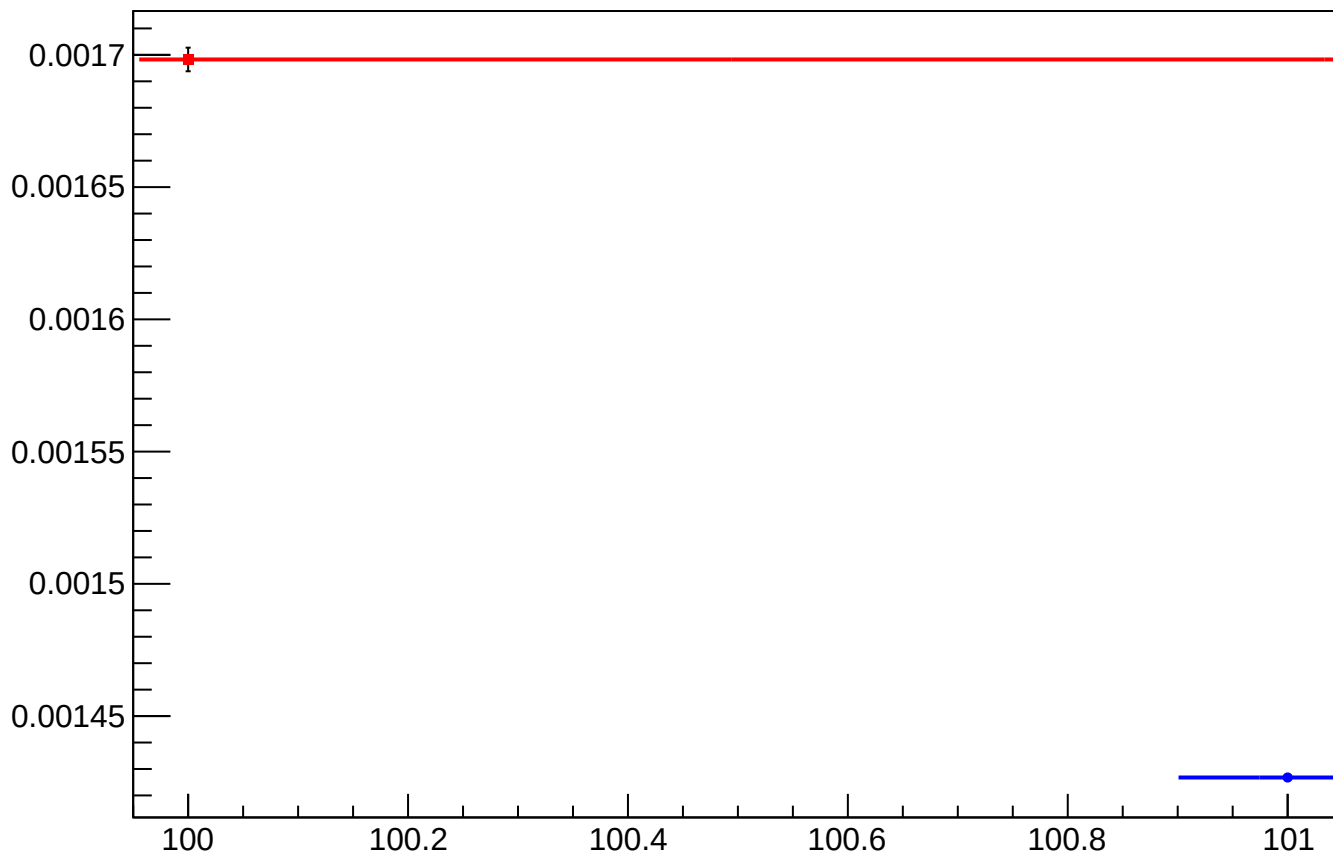
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

asym\_sam\_15\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

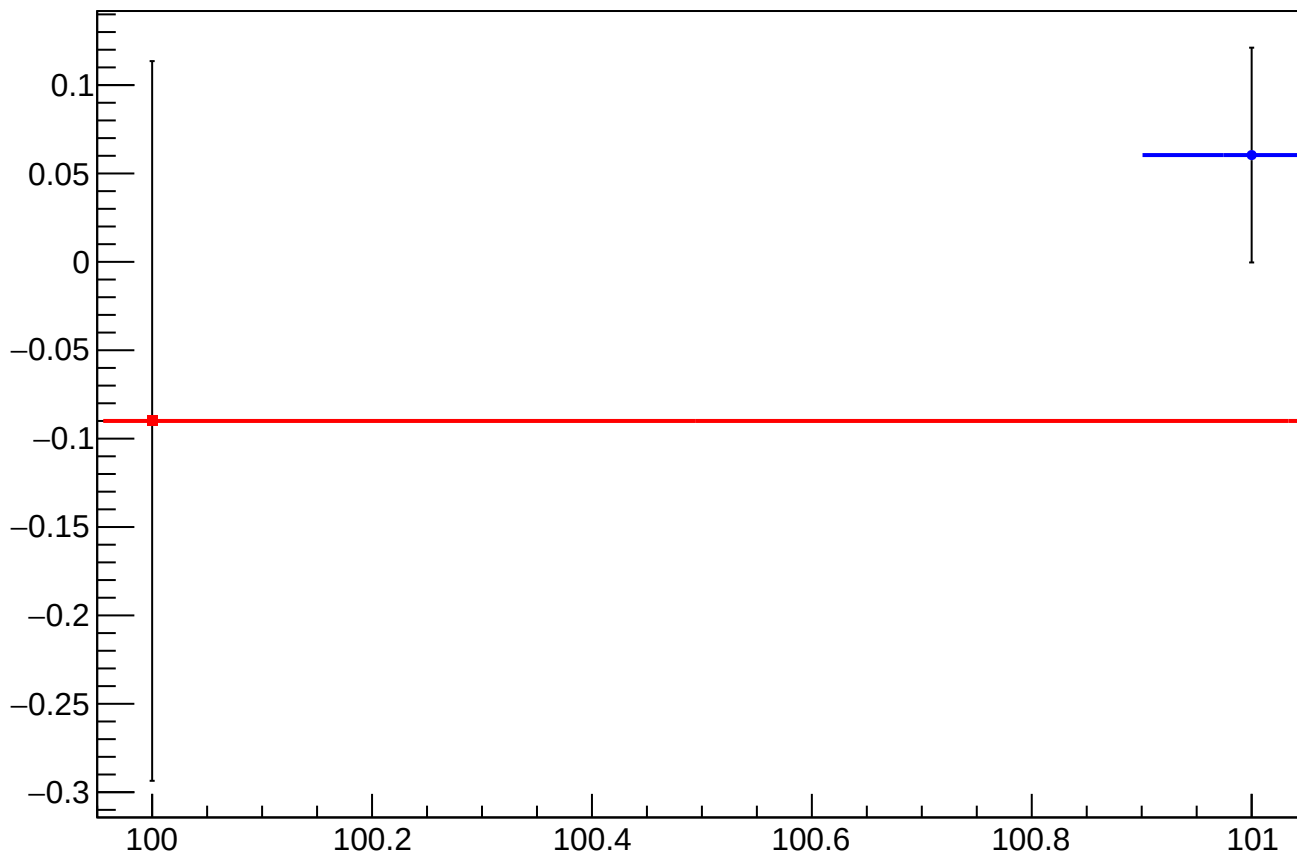
Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3433.6/1

In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 3433.6/1

asym\_sam\_15\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.060 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.090 $\pm$ 0.204  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

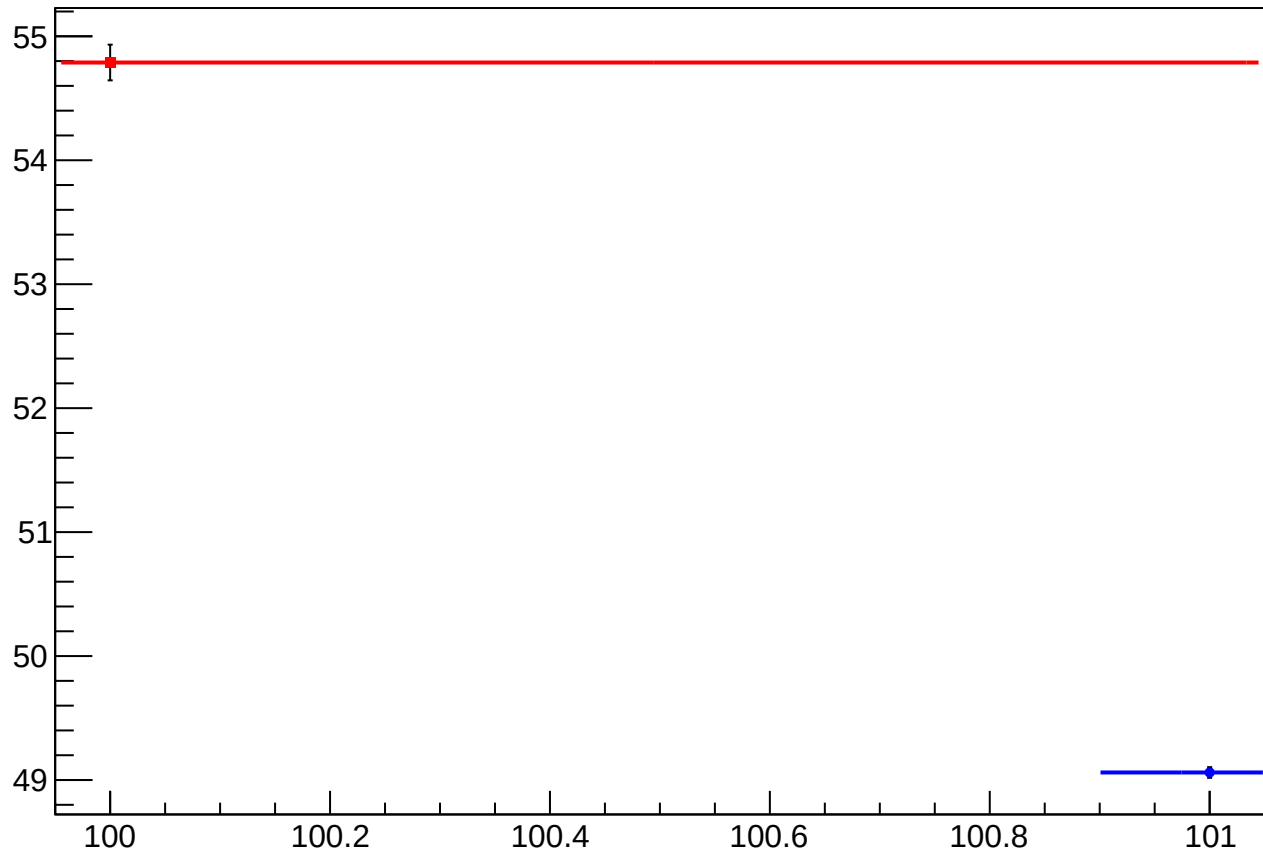
Right: 0.048 $\pm$ 0.058  $\chi^2$ /NDF: 0.5/1

In: 0.060 $\pm$ 0.061  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.048 $\pm$ 0.058  $\chi^2$ /NDF: 0.5/1

asym\_sam\_15\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 49.061 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.788 $\pm$ 0.144  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

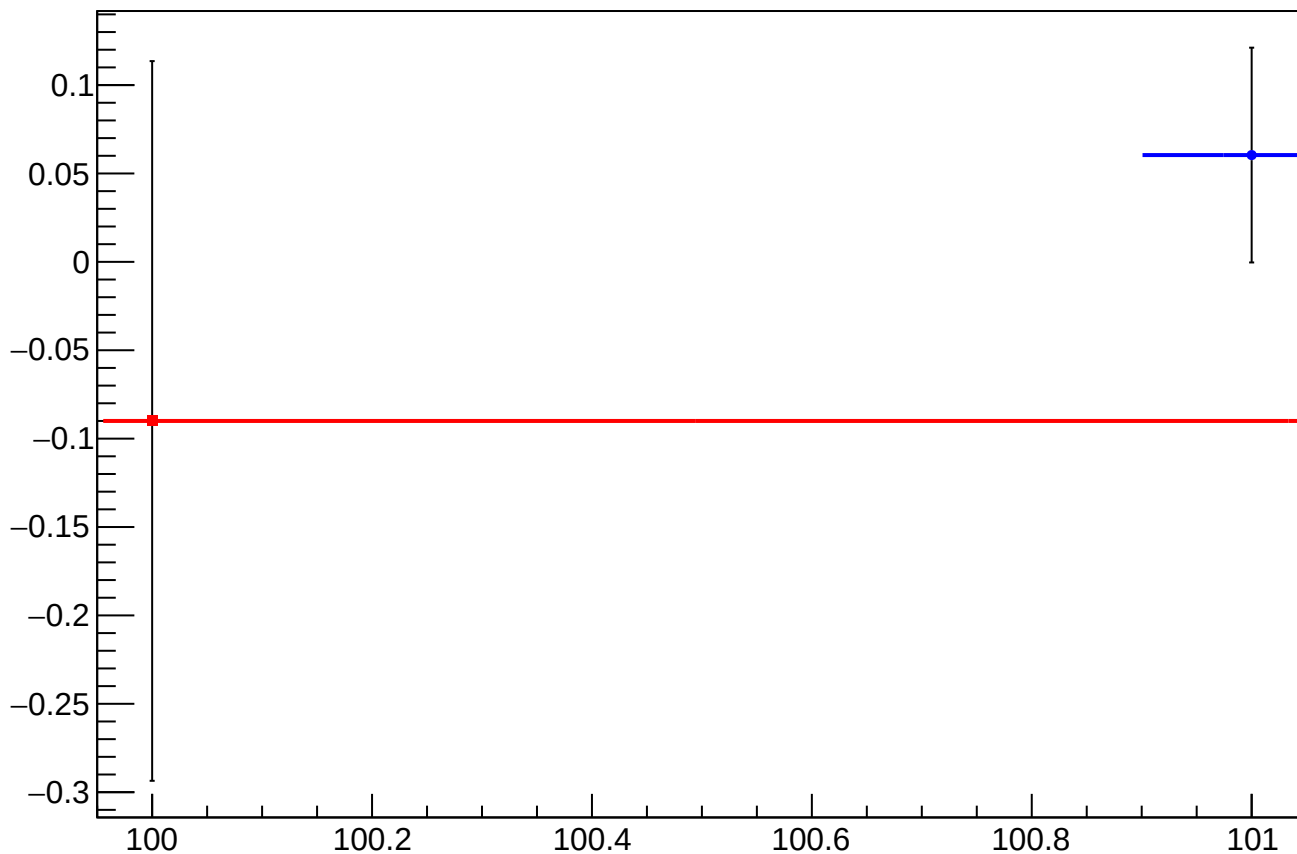
Right: 49.529 $\pm$ 0.041  $\chi^2$ /NDF: 1453.9/1

In: 49.061 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.529 $\pm$ 0.041  $\chi^2$ /NDF: 1453.9/1

asym\_sam\_15\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.060 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.090 $\pm$ 0.204  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.048 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 0.5/1

In: 0.060 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.048 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 0.5/1

asym\_sam\_15\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 49.061 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.788 $\pm$ 0.144  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 49.529 $\pm$ 0.041  $\chi^2$ /NDF: 1453.9/1

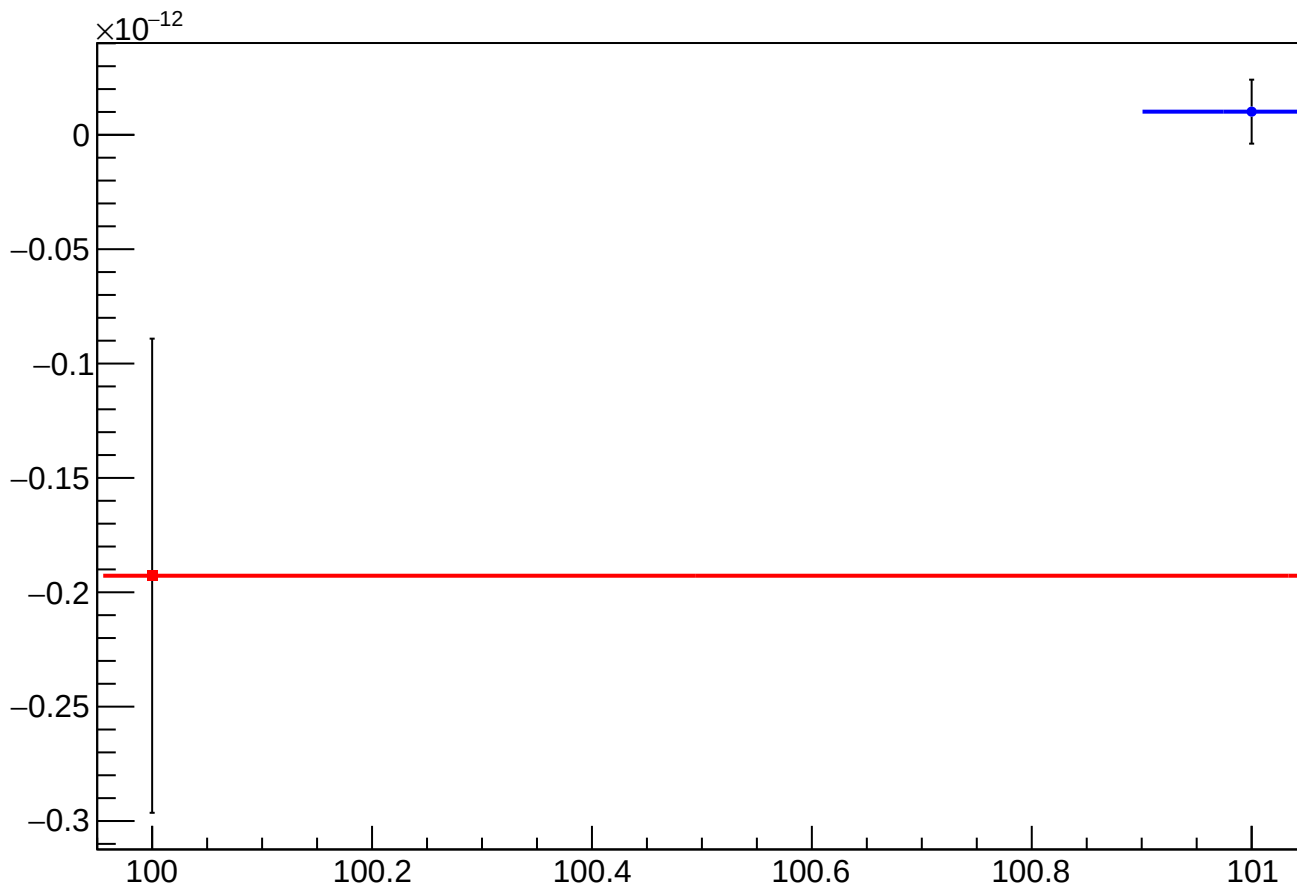
In: 49.061 $\pm$ 0.043  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 49.529 $\pm$ 0.041  $\chi^2$ /NDF: 1453.9/1



asym\_sam\_15\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

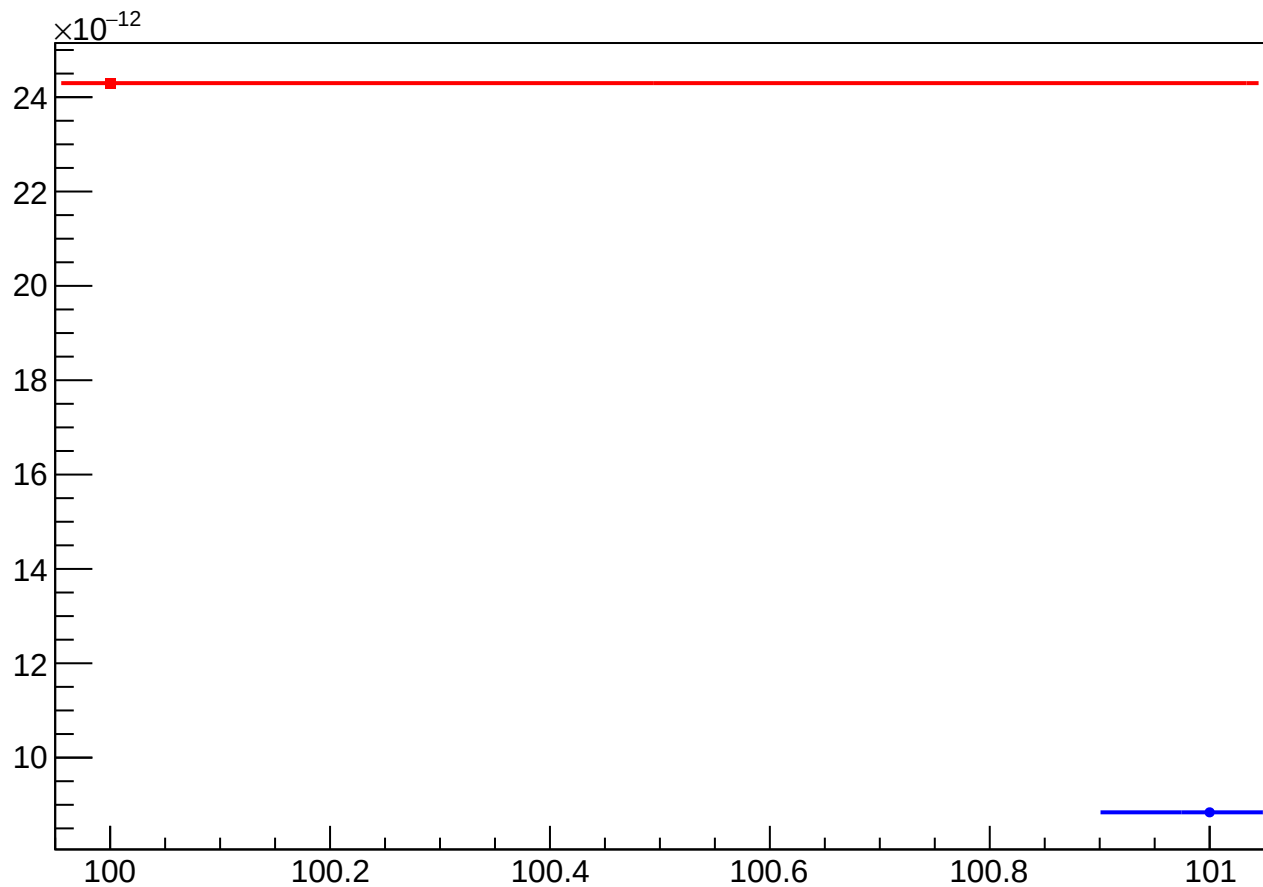
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.8/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 3.8/1

asym\_sam\_15\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

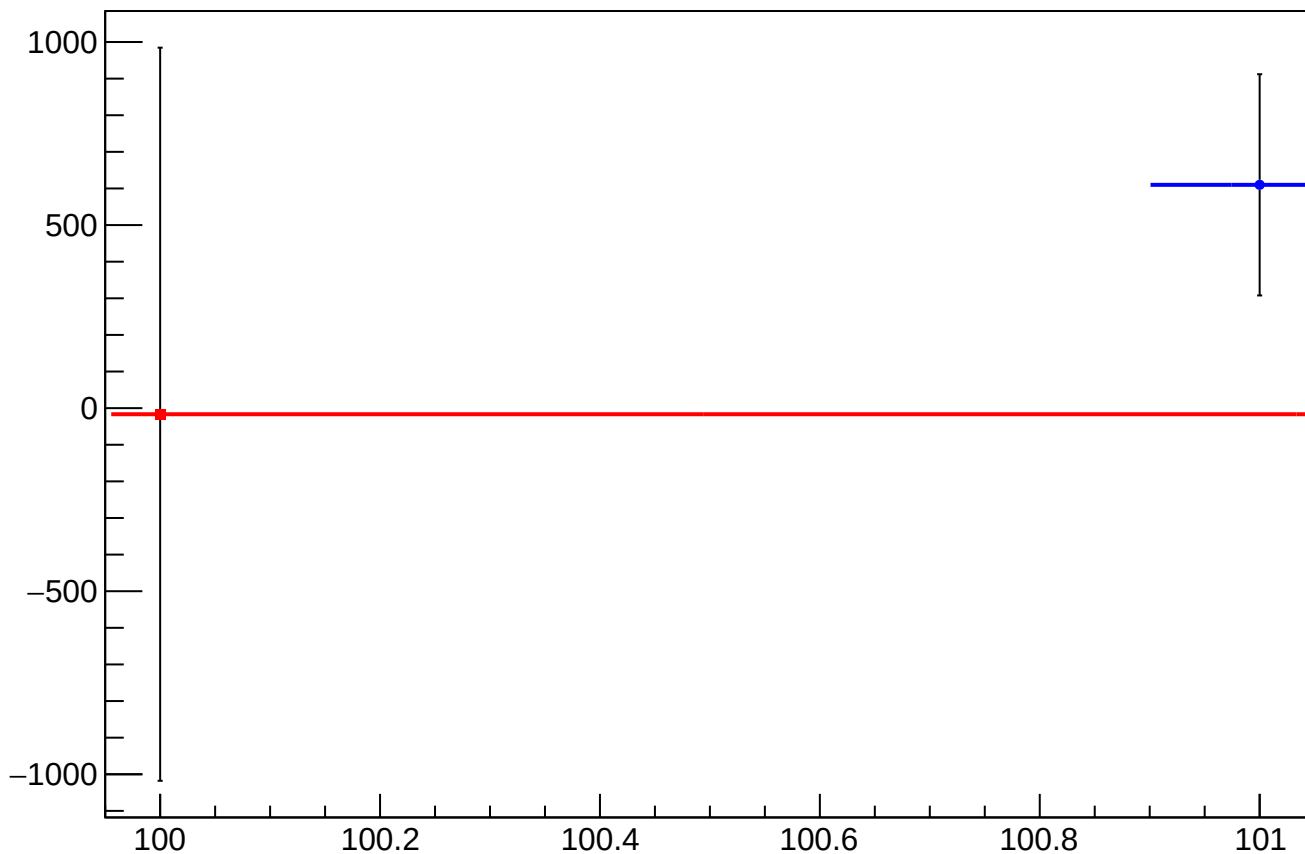
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 43685.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 43685.1/1

reg\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 609.892 $\pm$ 302.122  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -16.639 $\pm$ 1001.165  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

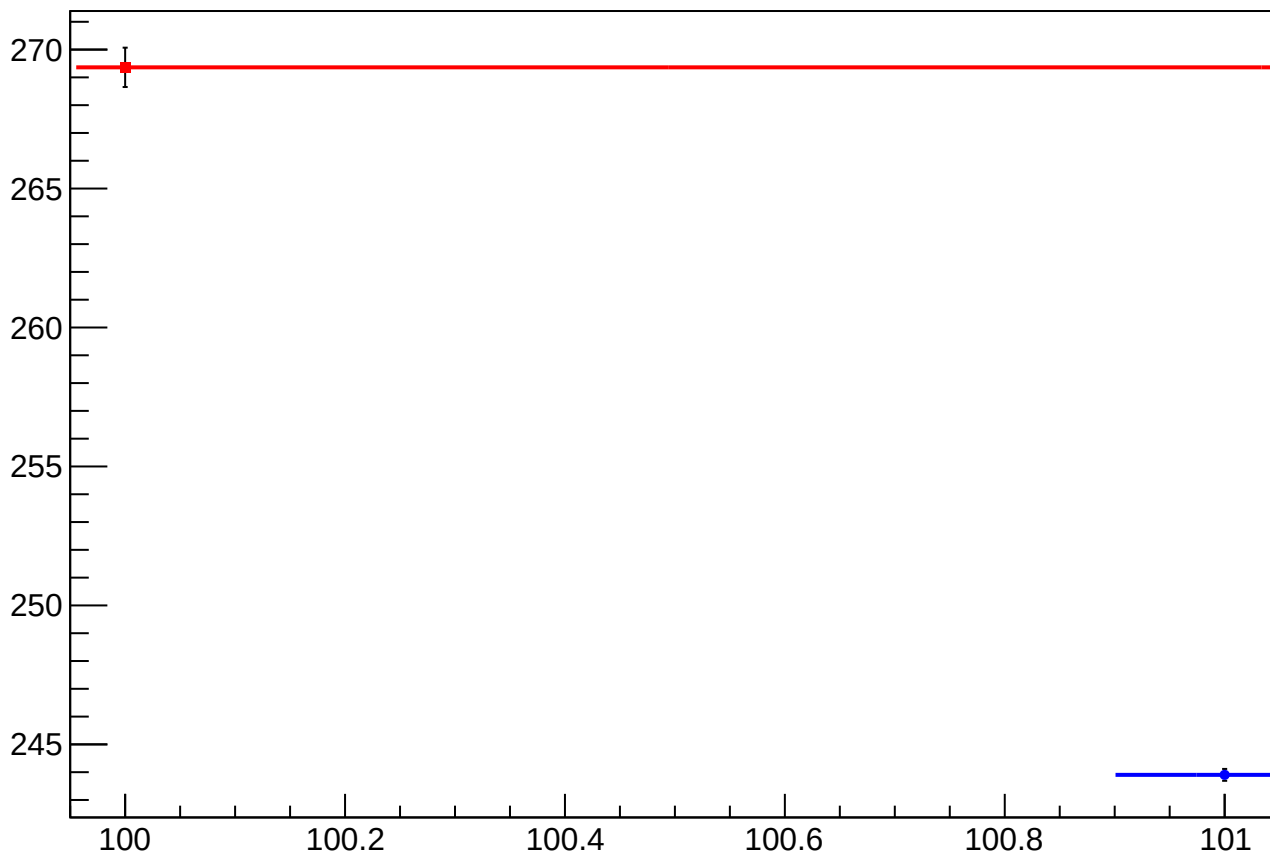
Right: 557.599 $\pm$ 289.239  $\chi^2$ /NDF: 0.4/1

In: 609.892 $\pm$ 302.122  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 557.599 $\pm$ 289.239  $\chi^2$ /NDF: 0.4/1

# reg\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 243.904 $\pm$ 0.214  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 269.361 $\pm$ 0.708  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

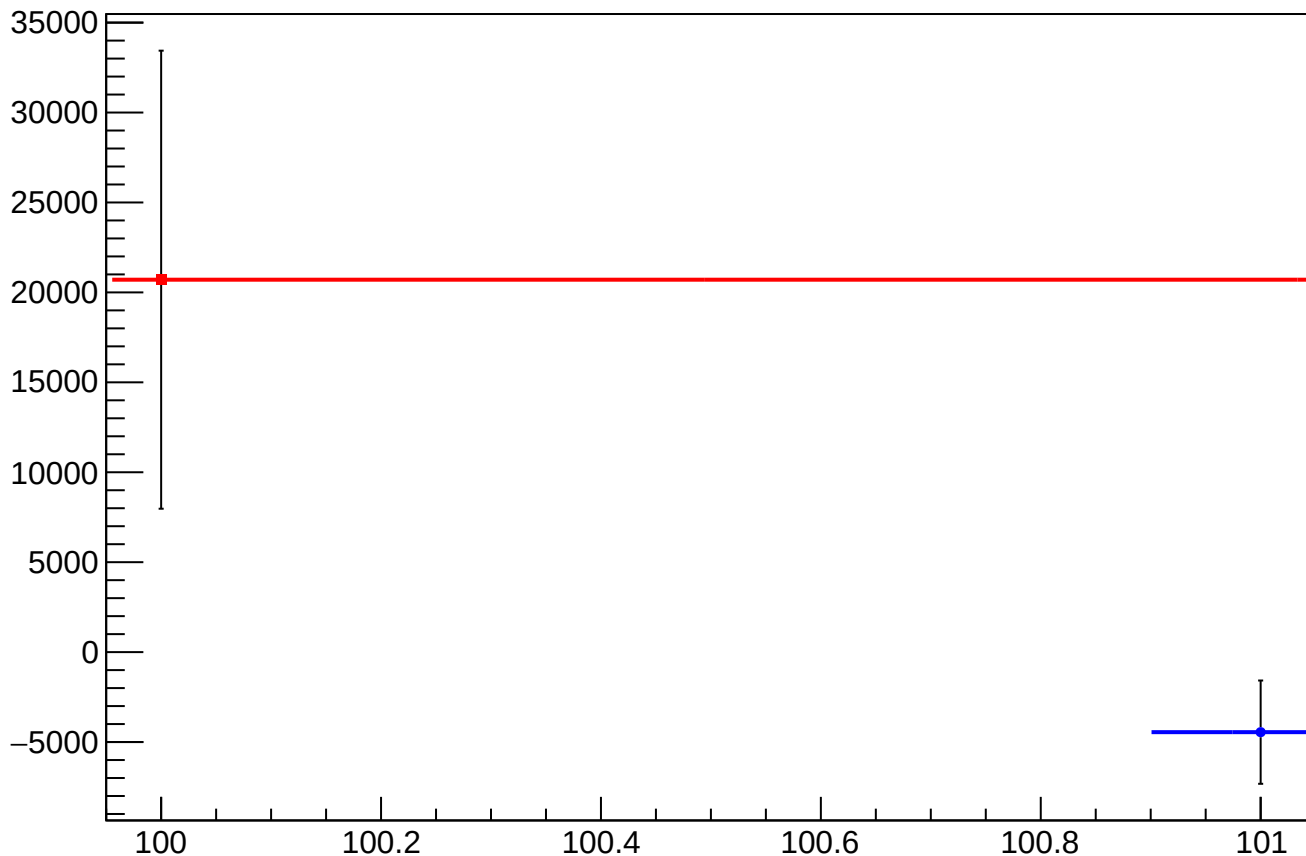
Right: 246.028 $\pm$ 0.205  $\chi^2$ /NDF: 1185.2/1

In: 243.904 $\pm$ 0.214  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 246.028 $\pm$ 0.205  $\chi^2$ /NDF: 1185.2/1

asym\_sam\_26\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -4450.535 $\pm$ 2871.210  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20705.844 $\pm$ 12733.901  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

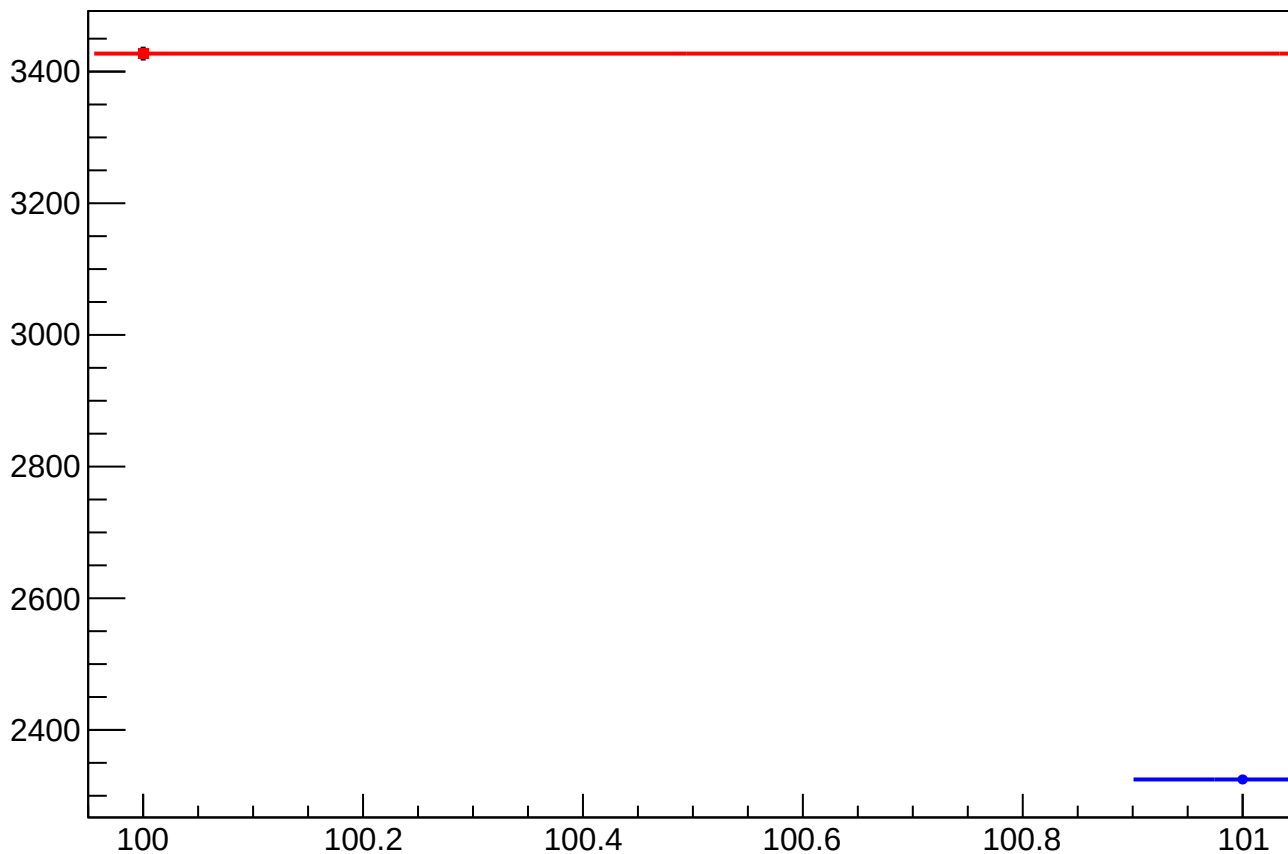
Right: -3233.457 $\pm$ 2800.894  $\chi^2/\text{NDF}$ : 3.7/1

In: -4450.535 $\pm$ 2871.210  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3233.457 $\pm$ 2800.894  $\chi^2/\text{NDF}$ : 3.7/1

asym\_sam\_26\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 2324.767 $\pm$ 2.030  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3427.321 $\pm$ 9.004  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

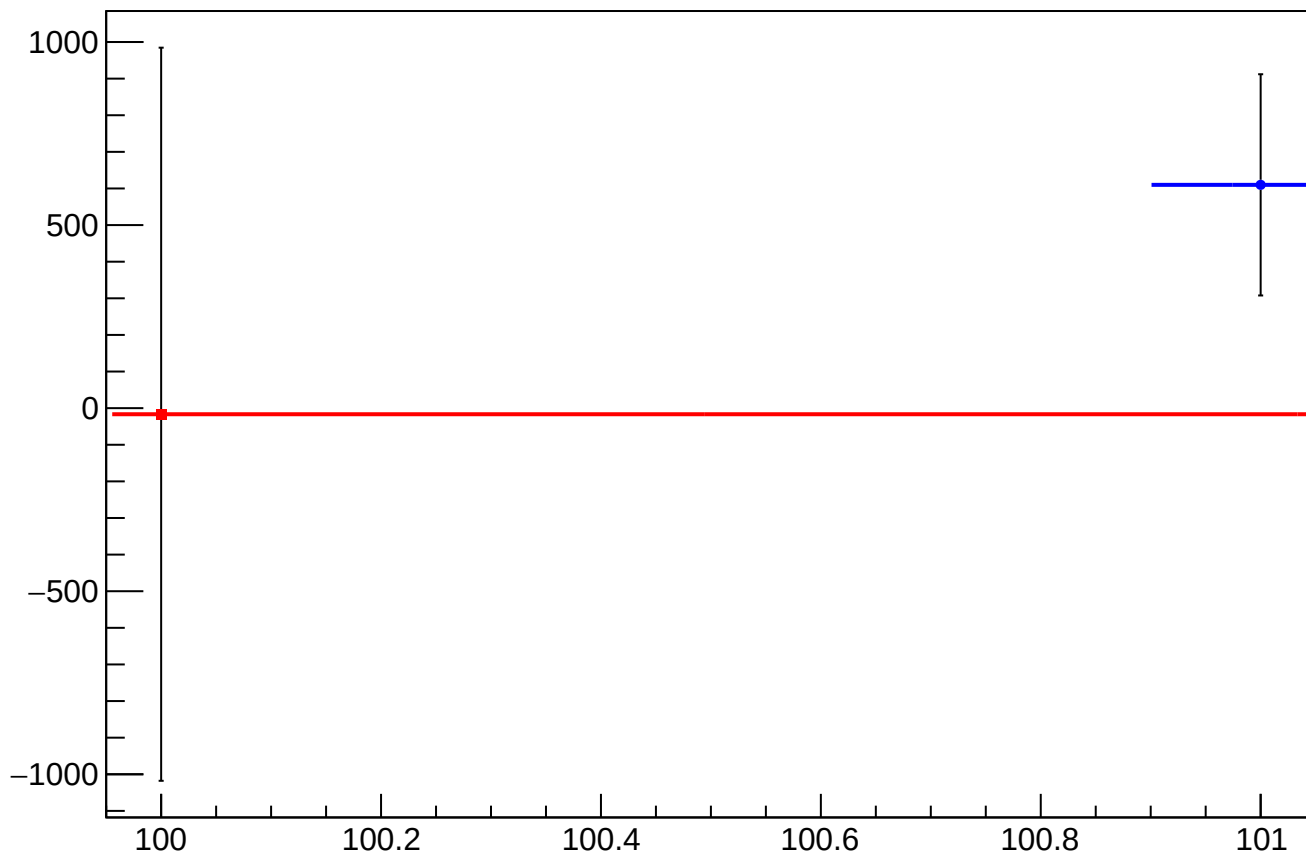
Right: 2378.110 $\pm$ 1.981  $\chi^2/\text{NDF}$ : 14268.2/1

In: 2324.767 $\pm$ 2.030  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2378.110 $\pm$ 1.981  $\chi^2/\text{NDF}$ : 14268.2/1

cor\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 609.865 $\pm$ 302.122  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -16.623 $\pm$ 1001.165  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

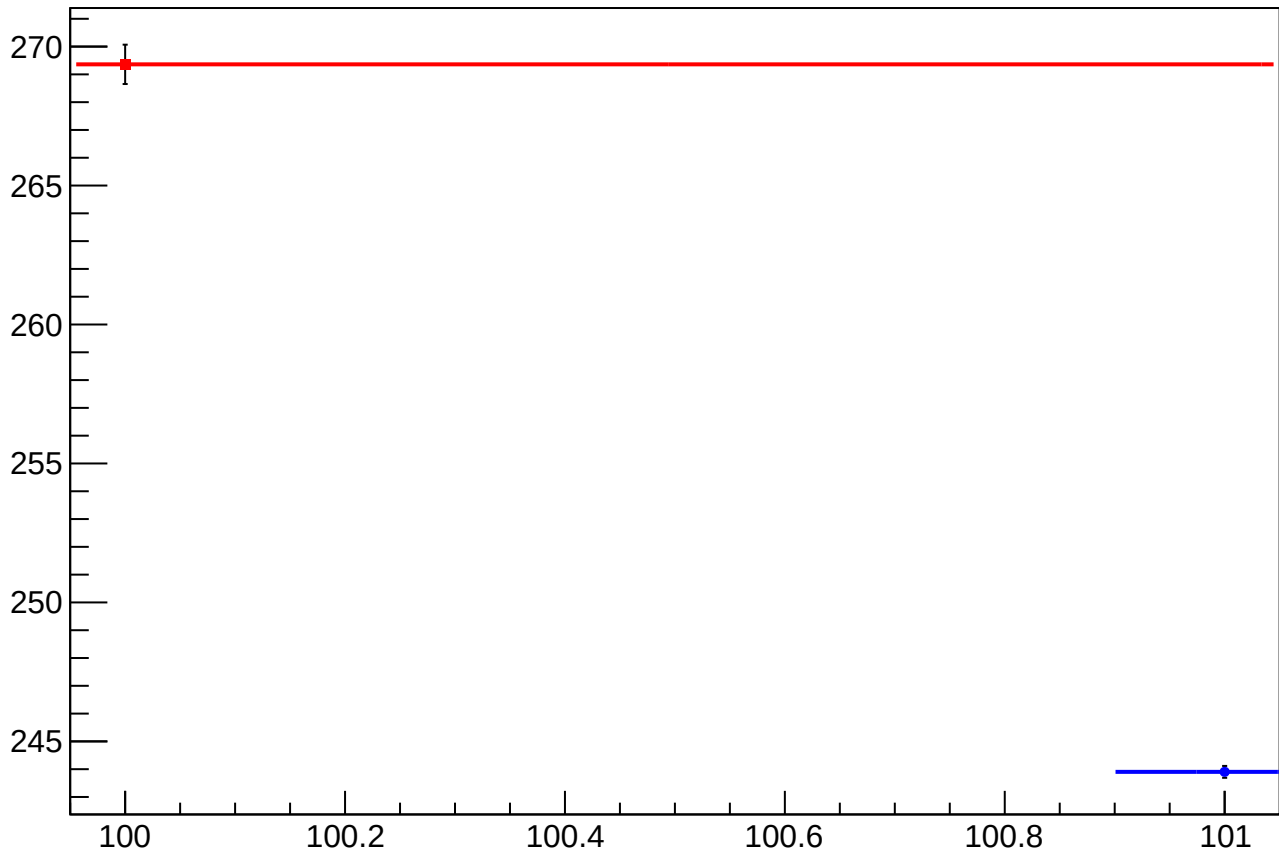
Right: 557.575 $\pm$ 289.239  $\chi^2$ /NDF: 0.4/1

In: 609.865 $\pm$ 302.122  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 557.575 $\pm$ 289.239  $\chi^2$ /NDF: 0.4/1

cor\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 243.904 $\pm$ 0.214  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 269.361 $\pm$ 0.708  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 246.028 $\pm$ 0.205  $\chi^2$ /NDF: 1185.2/1

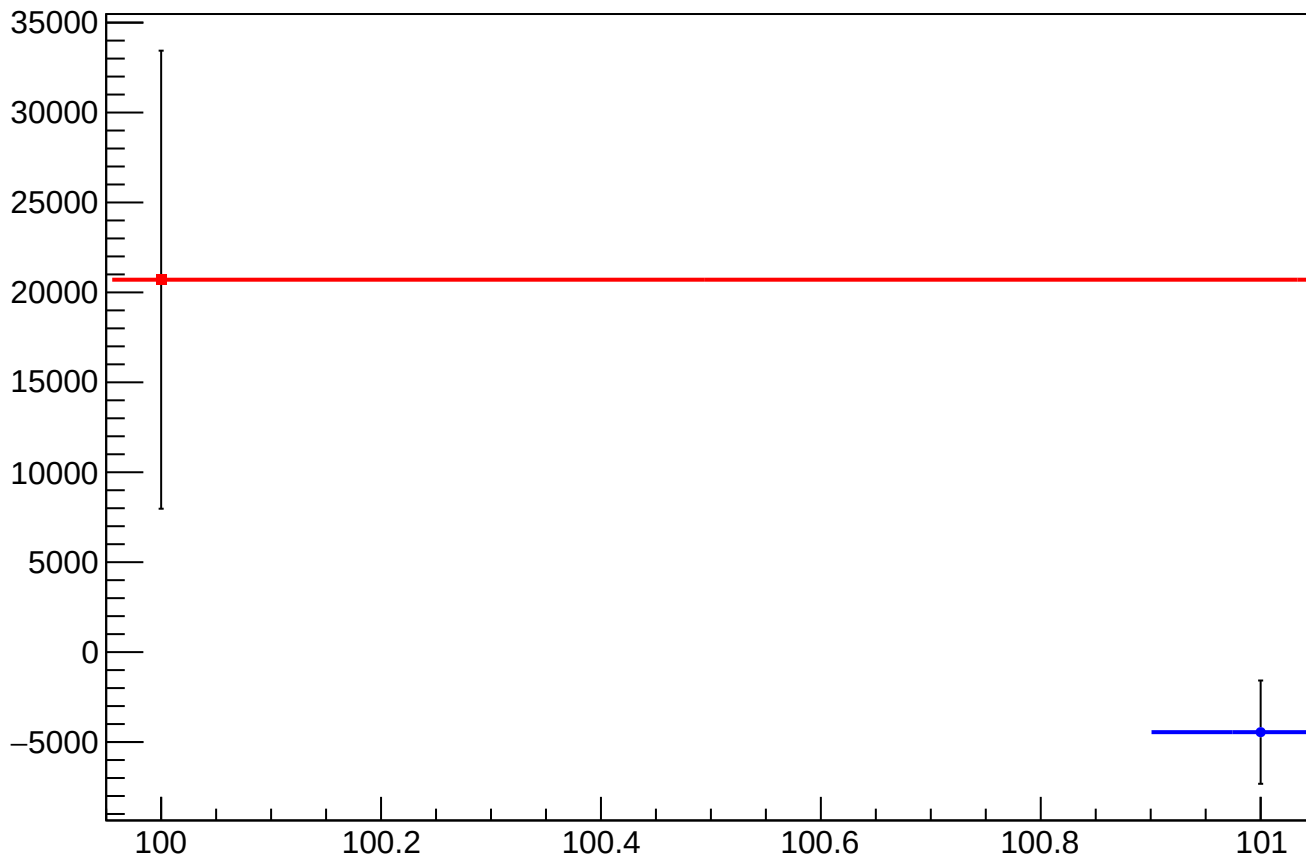
In: 243.904 $\pm$ 0.214  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 246.028 $\pm$ 0.205  $\chi^2$ /NDF: 1185.2/1



asym\_sam\_26\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -4450.473+/-2871.215  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 20705.837+/-12733.908  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

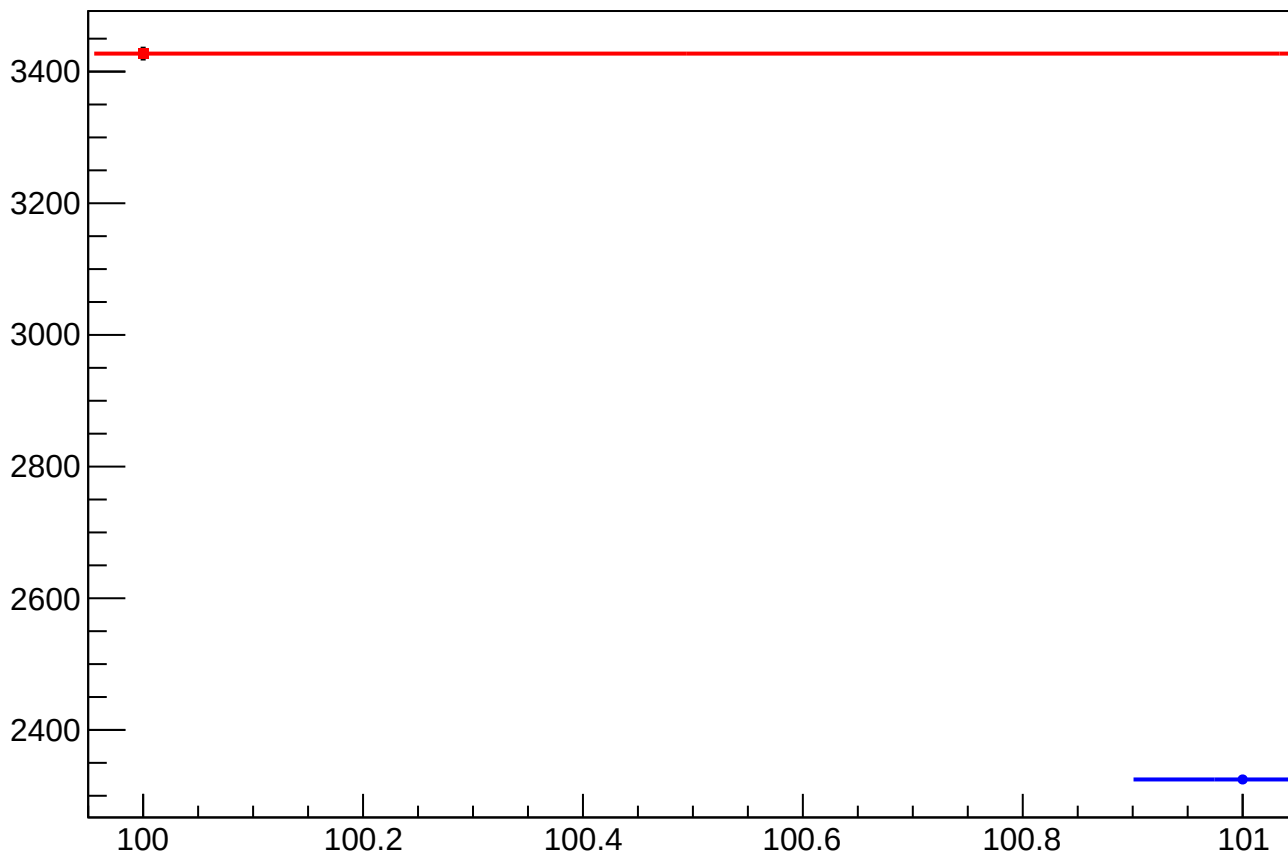
Right: -3233.395+/-2800.898  $\chi^2$ /NDF: 3.7/1

In: -4450.473+/-2871.215  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -3233.395+/-2800.898  $\chi^2$ /NDF: 3.7/1

asym\_sam\_26\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 2324.772 $\pm$ 2.030  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3427.323 $\pm$ 9.004  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

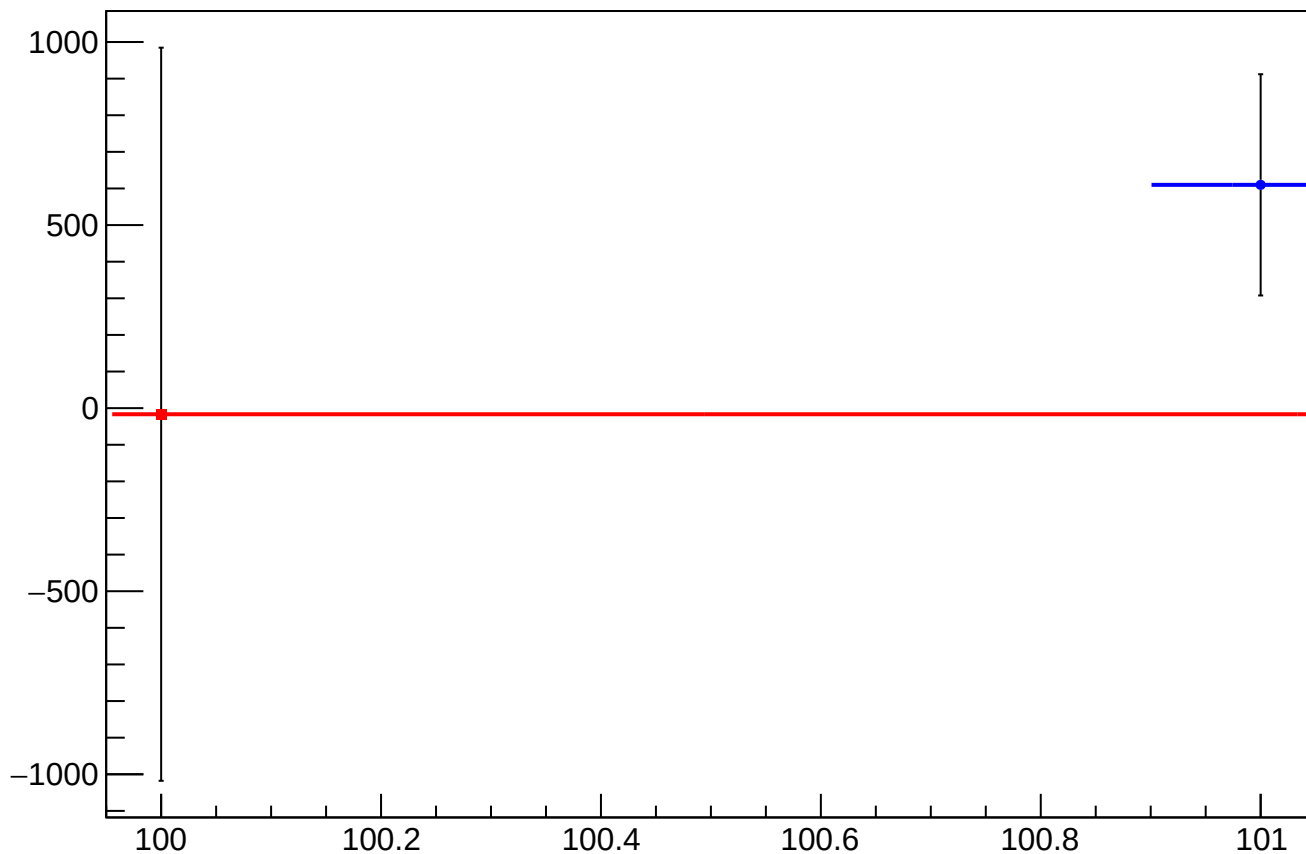
Right: 2378.114 $\pm$ 1.981  $\chi^2/\text{NDF}$ : 14268.1/1

In: 2324.772 $\pm$ 2.030  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2378.114 $\pm$ 1.981  $\chi^2/\text{NDF}$ : 14268.1/1

eigen\_cor\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 609.865+/-302.122  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -16.623+/-1001.165  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

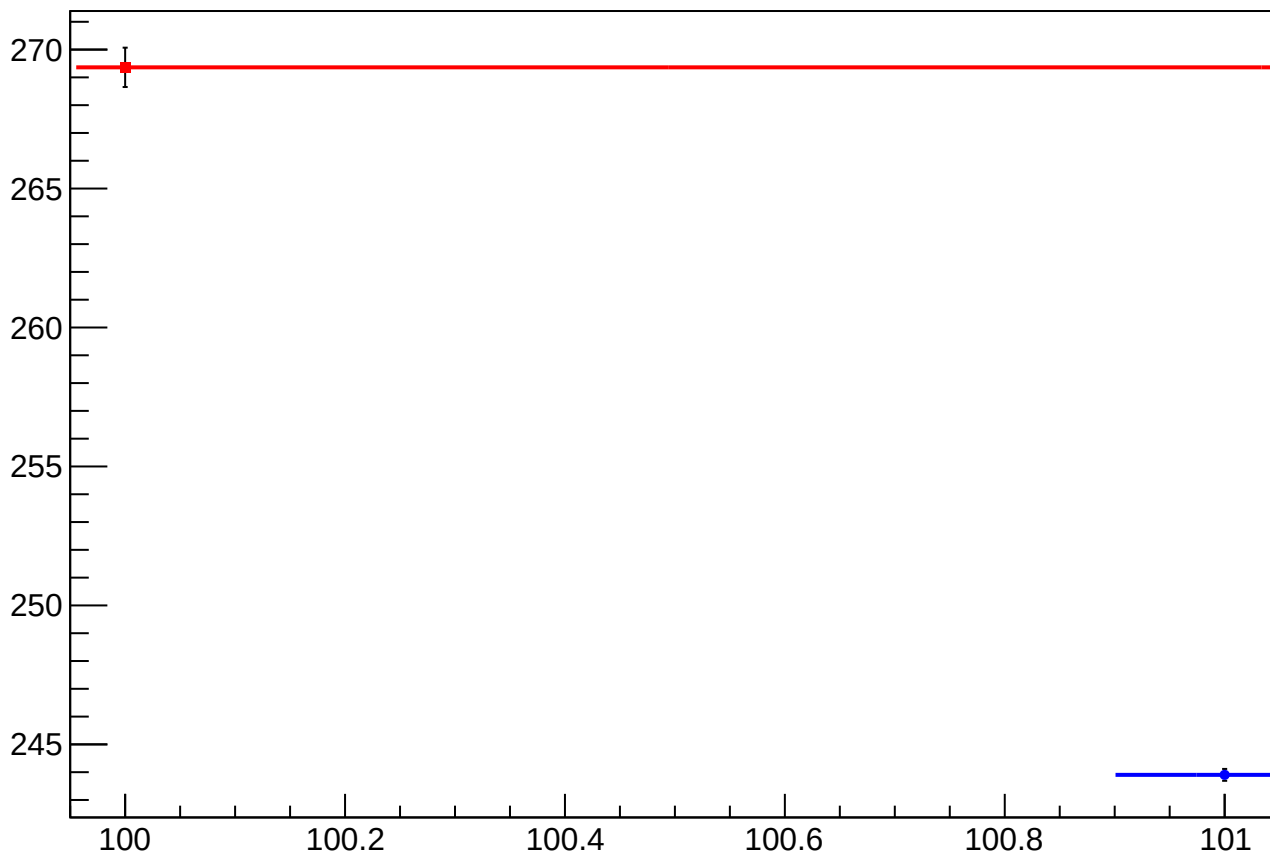
Right: 557.575+/-289.239  $\chi^2/\text{NDF}$ : 0.4/1

In: 609.865+/-302.122  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 557.575+/-289.239  $\chi^2/\text{NDF}$ : 0.4/1

eigen\_cor\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 243.904 $\pm$ 0.214  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 269.361 $\pm$ 0.708  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

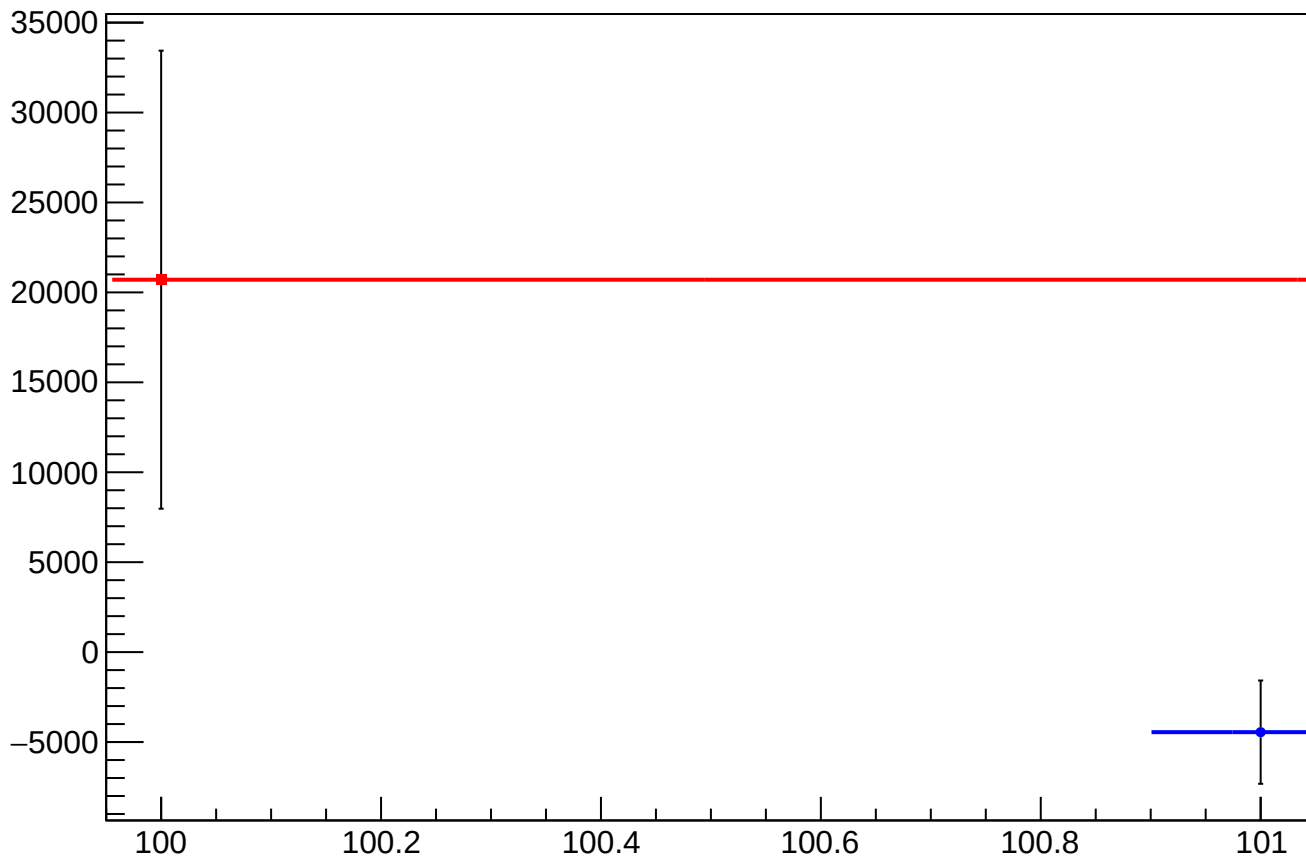
Right: 246.028 $\pm$ 0.205  $\chi^2$ /NDF: 1185.2/1

In: 243.904 $\pm$ 0.214  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 246.028 $\pm$ 0.205  $\chi^2$ /NDF: 1185.2/1

asym\_sam\_26\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -4450.473+/-2871.215  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20705.837+/-12733.908  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

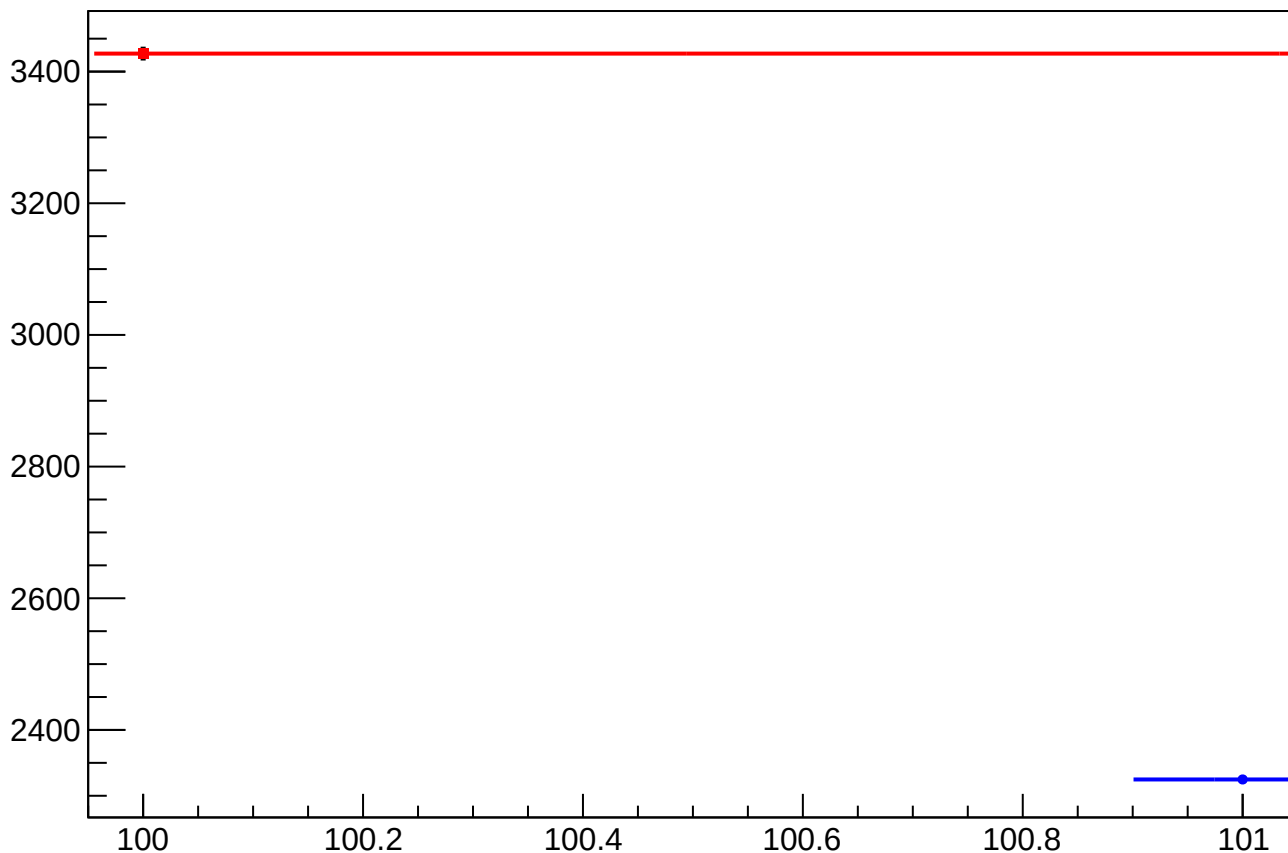
Right: -3233.395+/-2800.898  $\chi^2/\text{NDF}$ : 3.7/1

In: -4450.473+/-2871.215  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3233.395+/-2800.898  $\chi^2/\text{NDF}$ : 3.7/1

asym\_sam\_26\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 2324.772 $\pm$ 2.030  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3427.323 $\pm$ 9.004  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

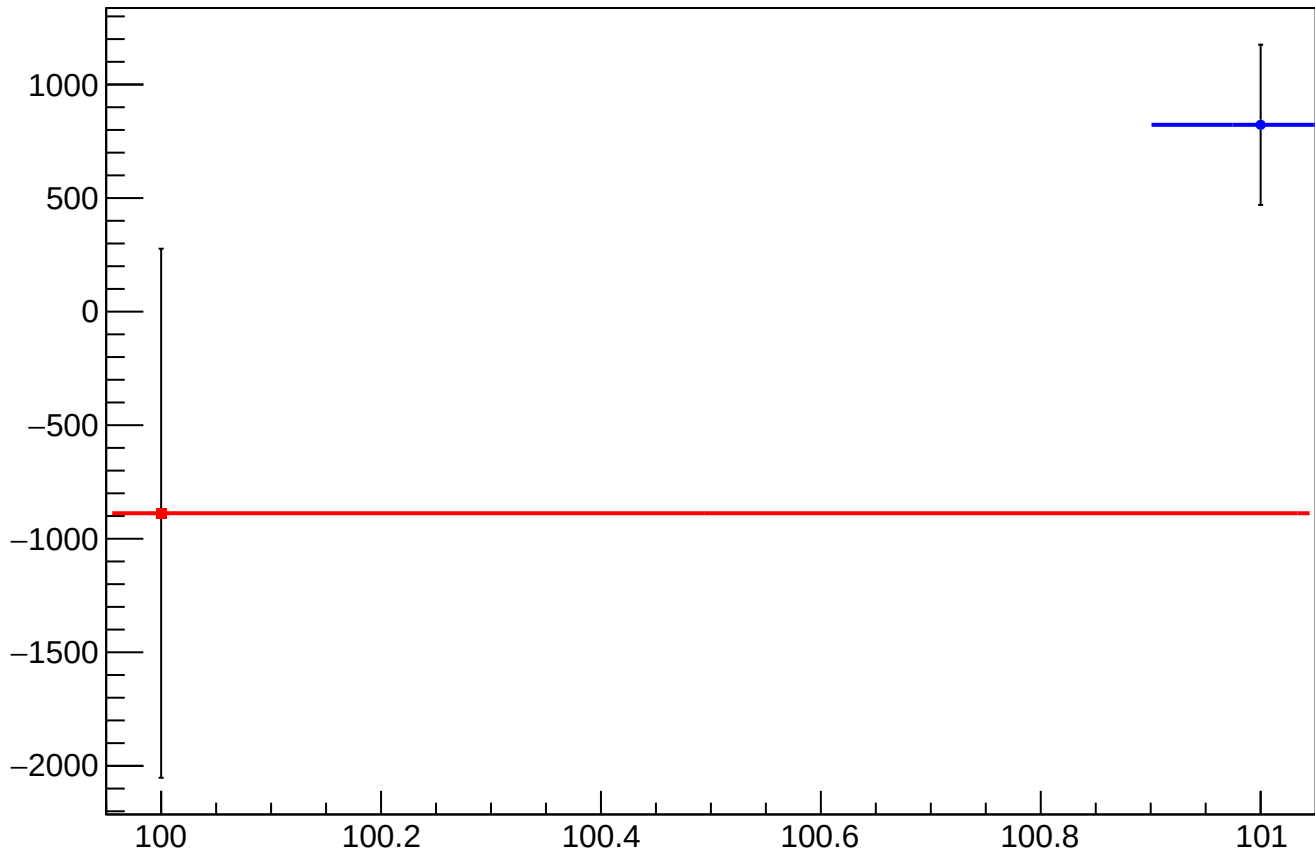
Right: 2378.114 $\pm$ 1.981  $\chi^2$ /NDF: 14268.1/1

In: 2324.772 $\pm$ 2.030  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2378.114 $\pm$ 1.981  $\chi^2$ /NDF: 14268.1/1

dit\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 822.590+/-352.874  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -887.711+/-1164.883  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

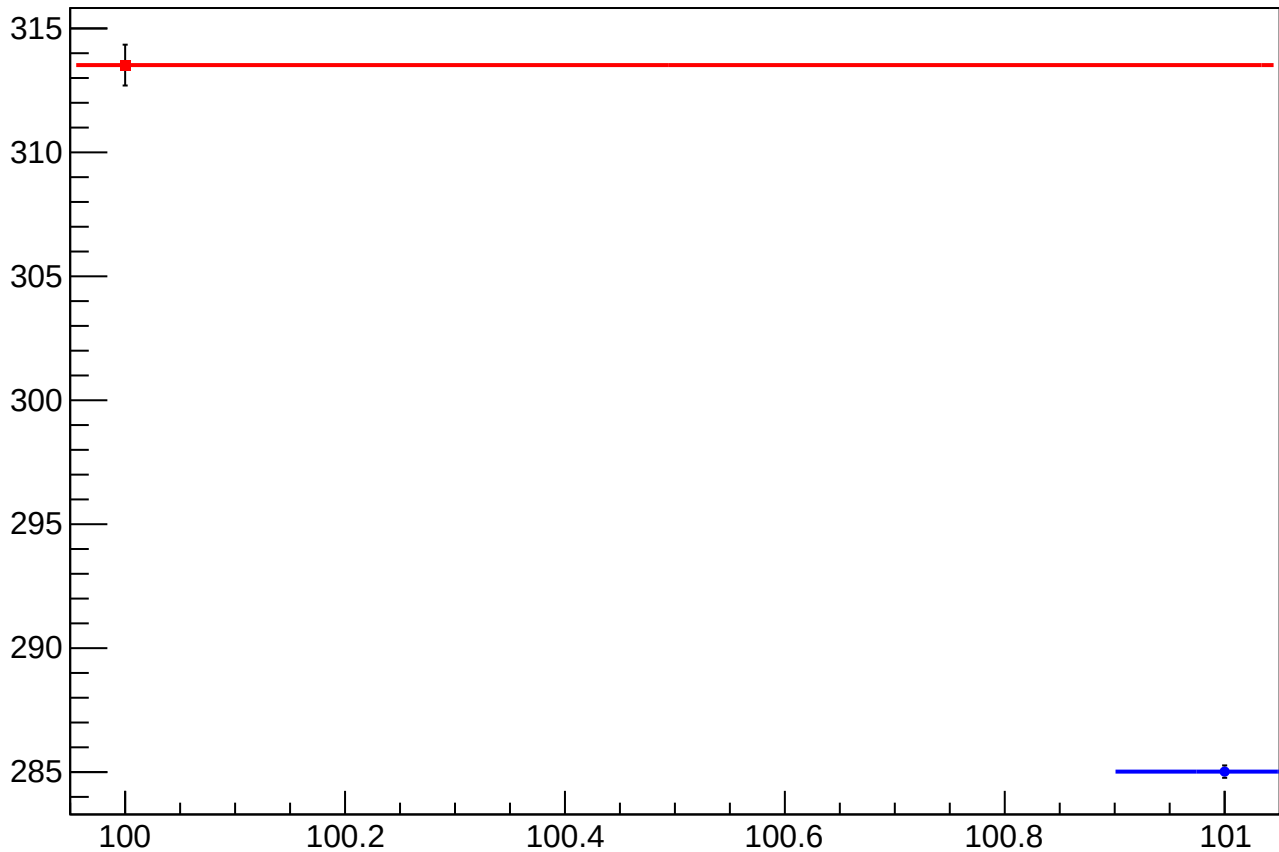
Right: 678.836+/-337.719  $\chi^2$ /NDF: 2.0/1

In: 822.590+/-352.874  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 678.836+/-337.719  $\chi^2$ /NDF: 2.0/1

# dit\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 285.020+/-0.250  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 313.521+/-0.824  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 287.415+/-0.239  $\chi^2/\text{NDF}$ : 1096.6/1

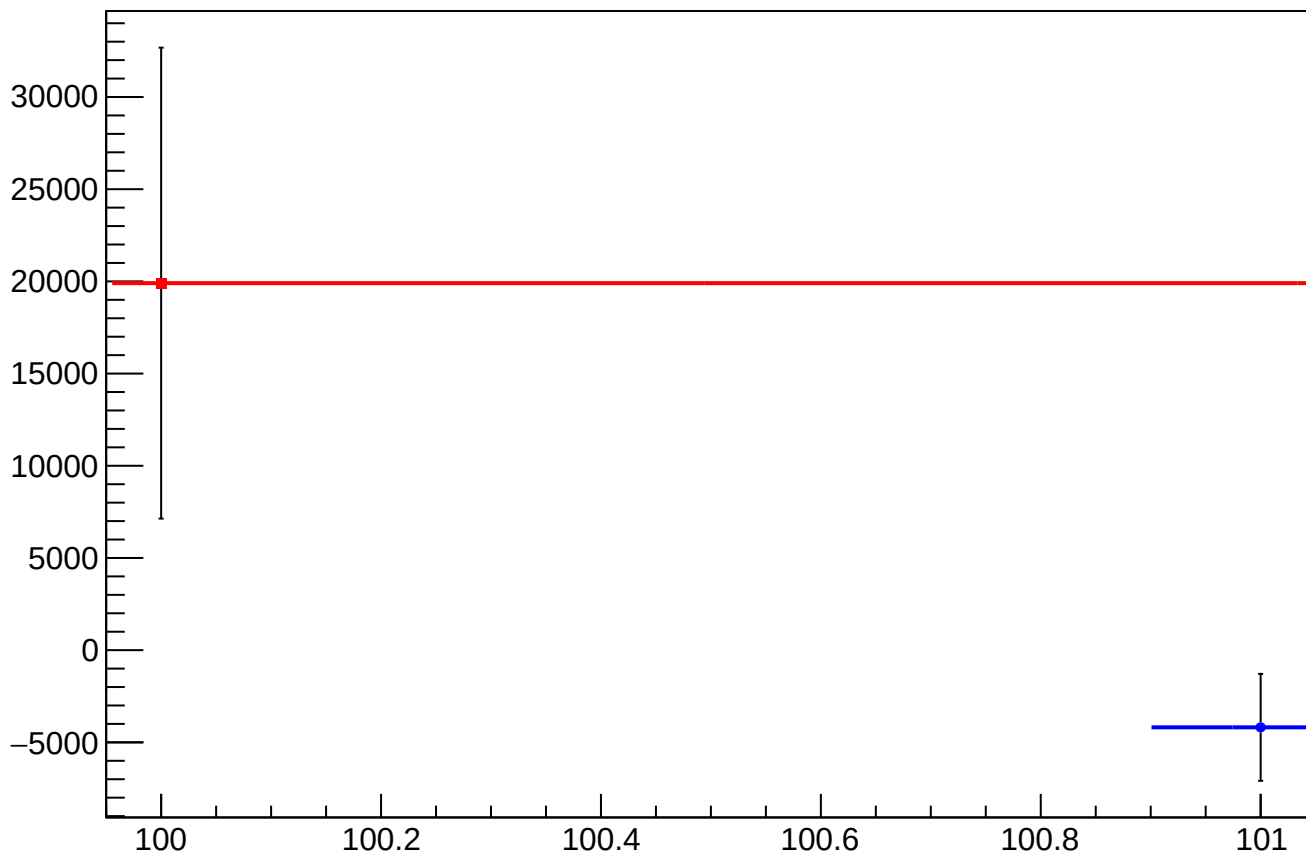
In: 285.020+/-0.250  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 287.415+/-0.239  $\chi^2/\text{NDF}$ : 1096.6/1



asym\_sam\_26\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -4185.027+/-2899.939  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 19905.663+/-12769.839  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

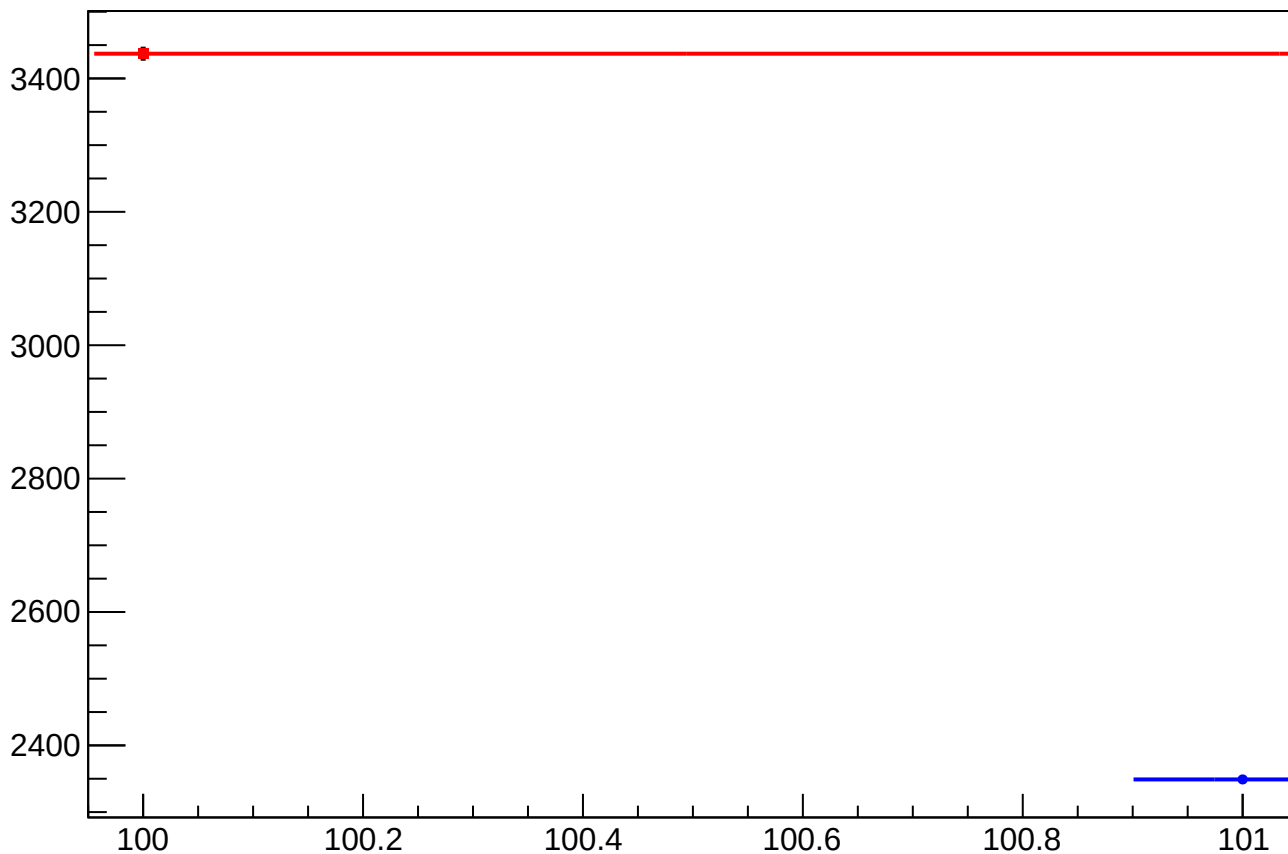
Right: -3003.571+/-2827.936  $\chi^2/\text{NDF}$ : 3.4/1

In: -4185.027+/-2899.939  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3003.571+/-2827.936  $\chi^2/\text{NDF}$ : 3.4/1

asym\_sam\_26\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2348.969+/-2.051  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3437.116+/-9.030  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

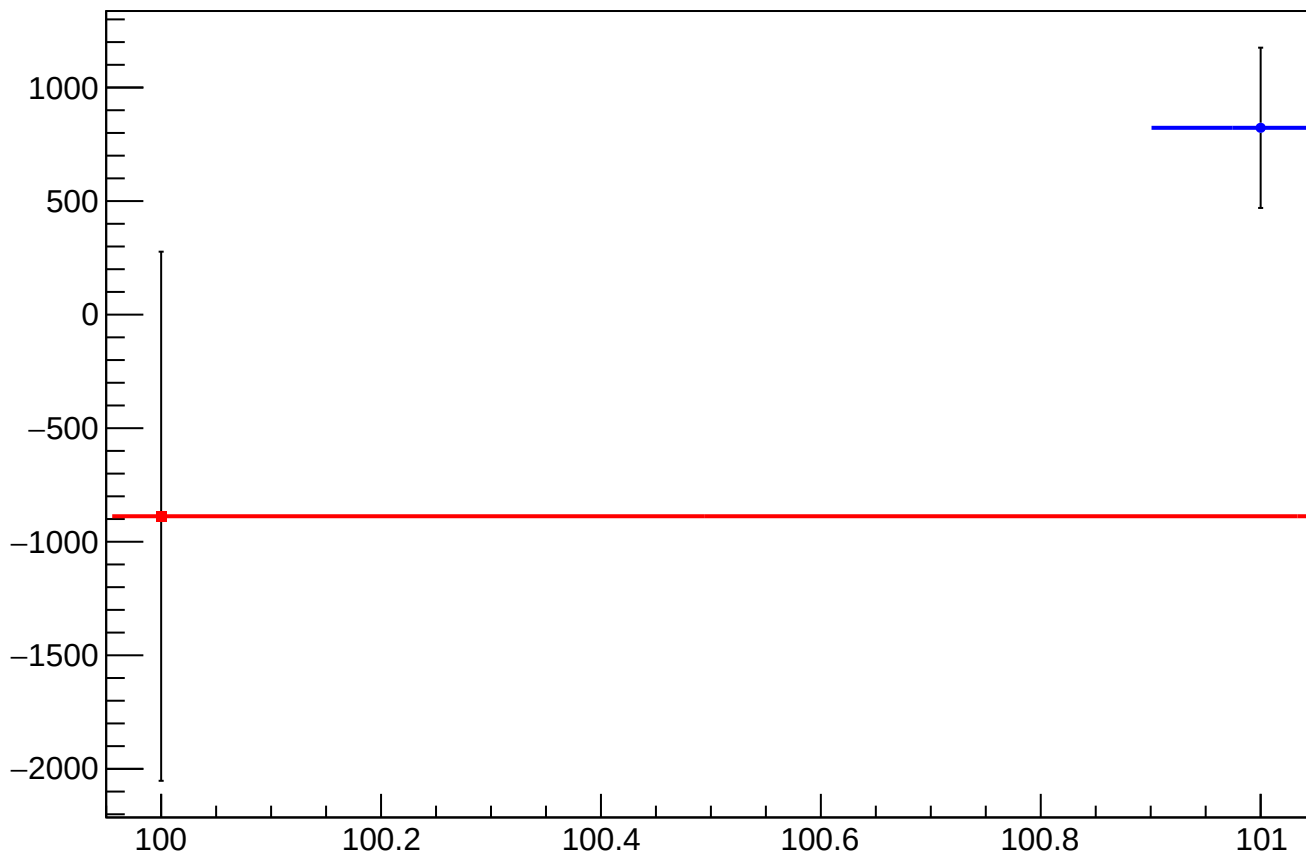
Right: 2402.334+/-2.000  $\chi^2$ /NDF: 13810.1/1

In: 2348.969+/-2.051  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 2402.334+/-2.000  $\chi^2$ /NDF: 13810.1/1

eigen\_dit\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 822.588+/-352.874  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -887.707+/-1164.882  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

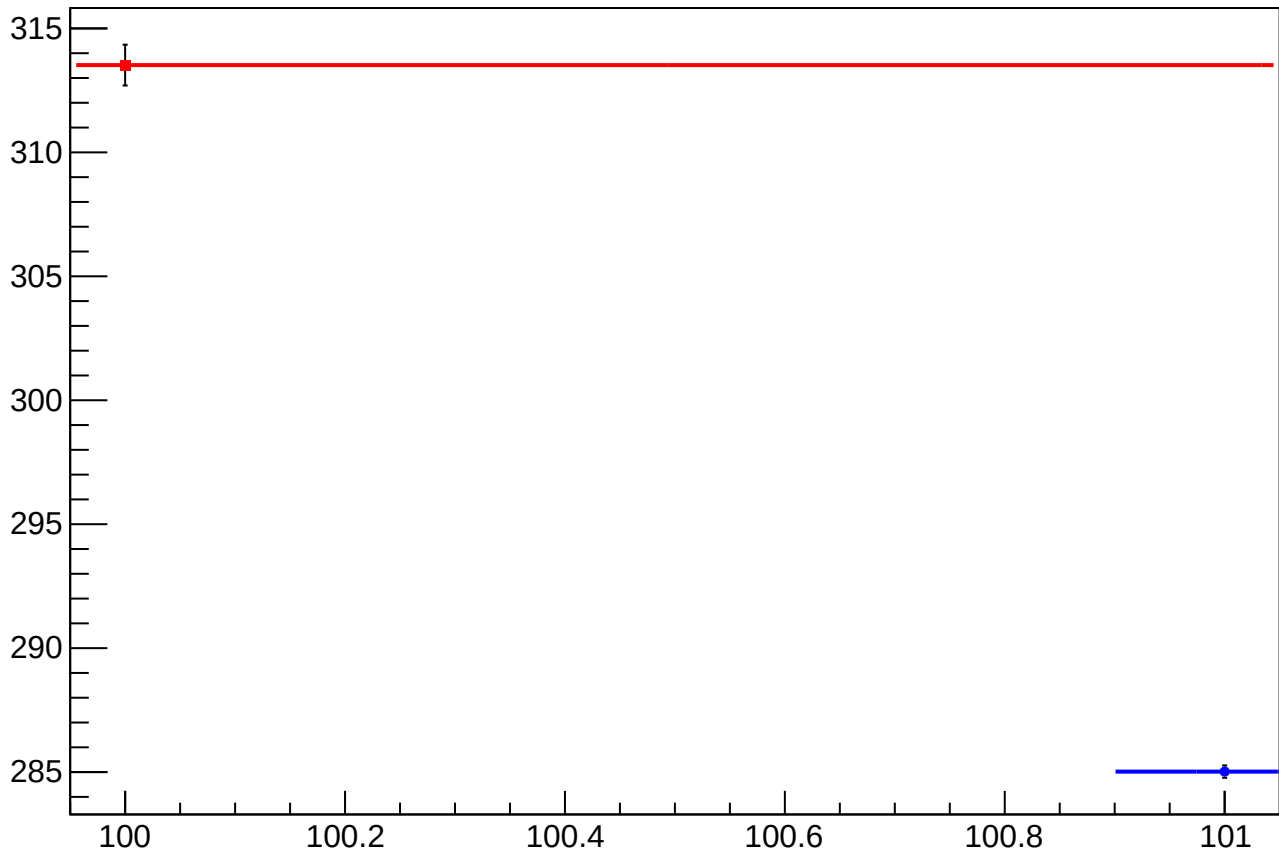
Right: 678.835+/-337.719  $\chi^2/\text{NDF}$ : 2.0/1

In: 822.588+/-352.874  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 678.835+/-337.719  $\chi^2/\text{NDF}$ : 2.0/1

eigen\_dit\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 285.020 $\pm$ 0.250  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 313.521 $\pm$ 0.824  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

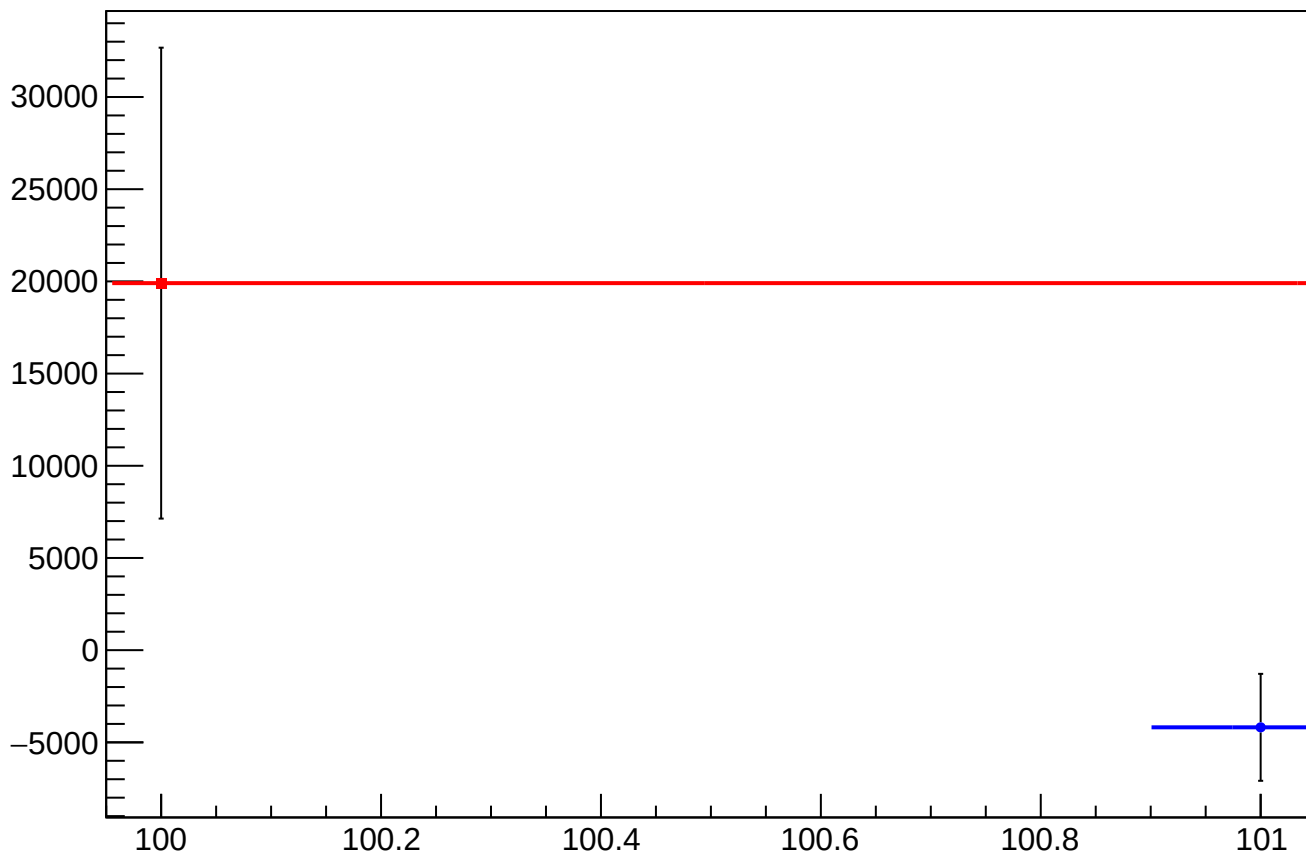
Right: 287.415 $\pm$ 0.239  $\chi^2/\text{NDF}$ : 1096.6/1

In: 285.020 $\pm$ 0.250  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 287.415 $\pm$ 0.239  $\chi^2/\text{NDF}$ : 1096.6/1

asym\_sam\_26\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -4185.028 $\pm$ 2899.937  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 19905.667 $\pm$ 12769.837  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

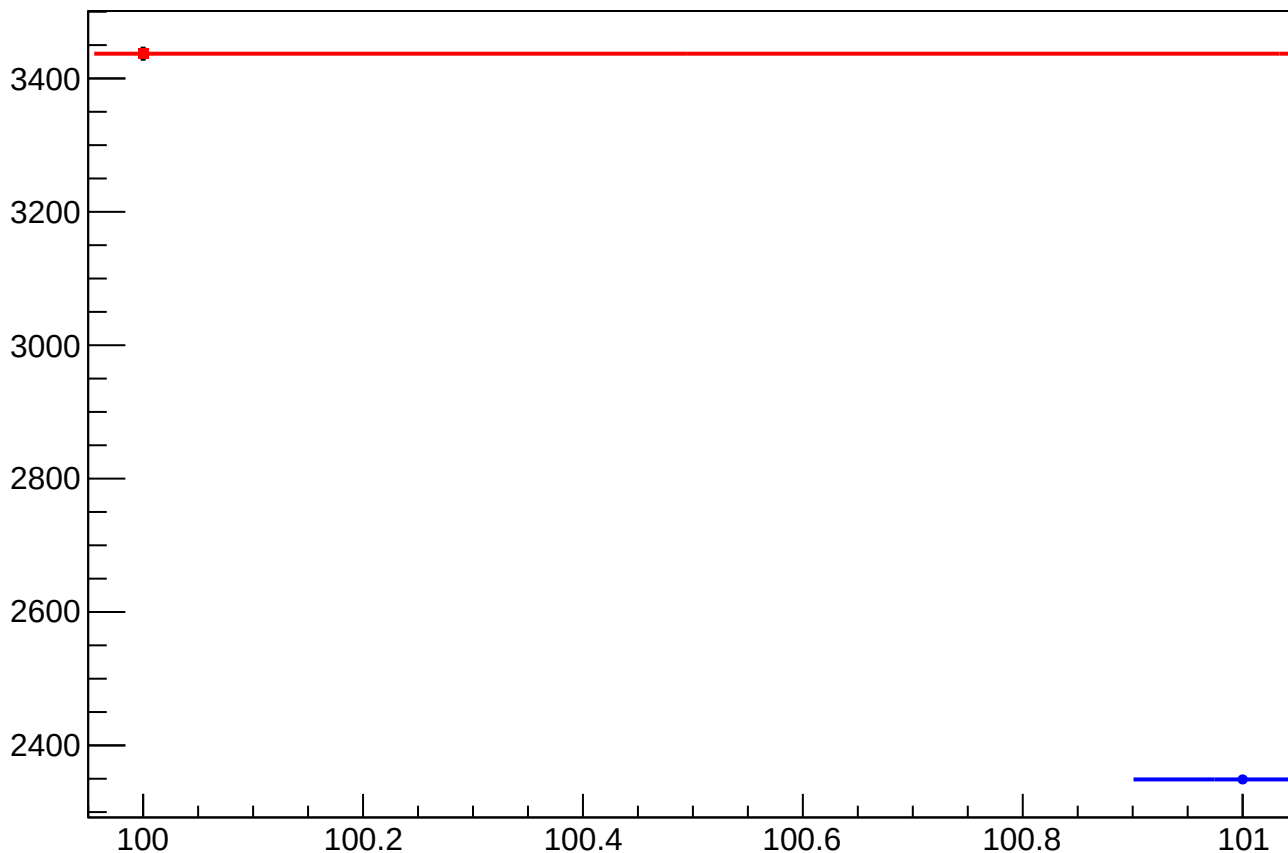
Right: -3003.573 $\pm$ 2827.934  $\chi^2$ /NDF: 3.4/1

In: -4185.028 $\pm$ 2899.937  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -3003.573 $\pm$ 2827.934  $\chi^2$ /NDF: 3.4/1

asym\_sam\_26\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 2348.967 $\pm$ 2.051  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3437.115 $\pm$ 9.030  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

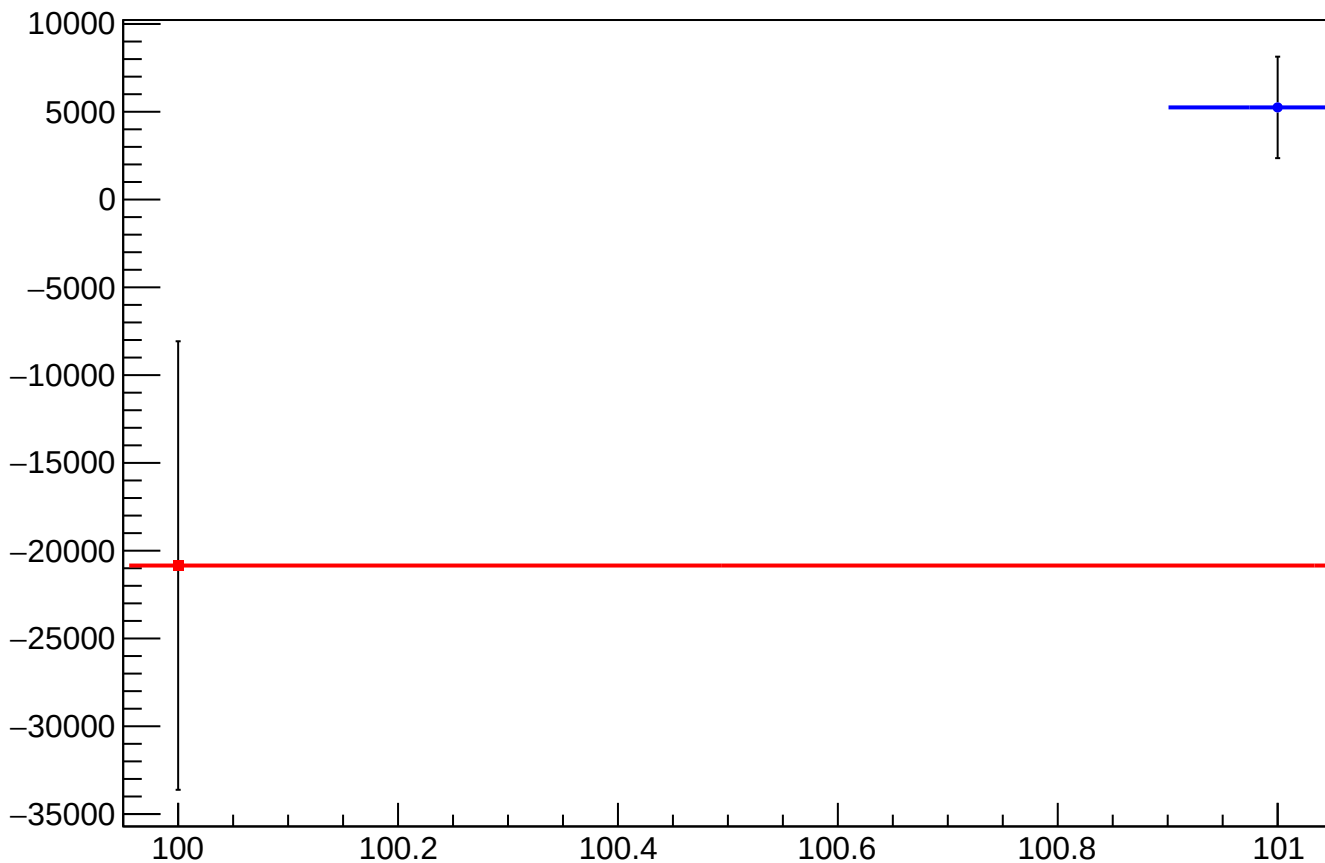
Right: 2402.332 $\pm$ 2.000  $\chi^2$ /NDF: 13810.1/1

In: 2348.967 $\pm$ 2.051  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2402.332 $\pm$ 2.000  $\chi^2$ /NDF: 13810.1/1

# asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 5248.181+/-2889.668  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20845.174+/-12773.359  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

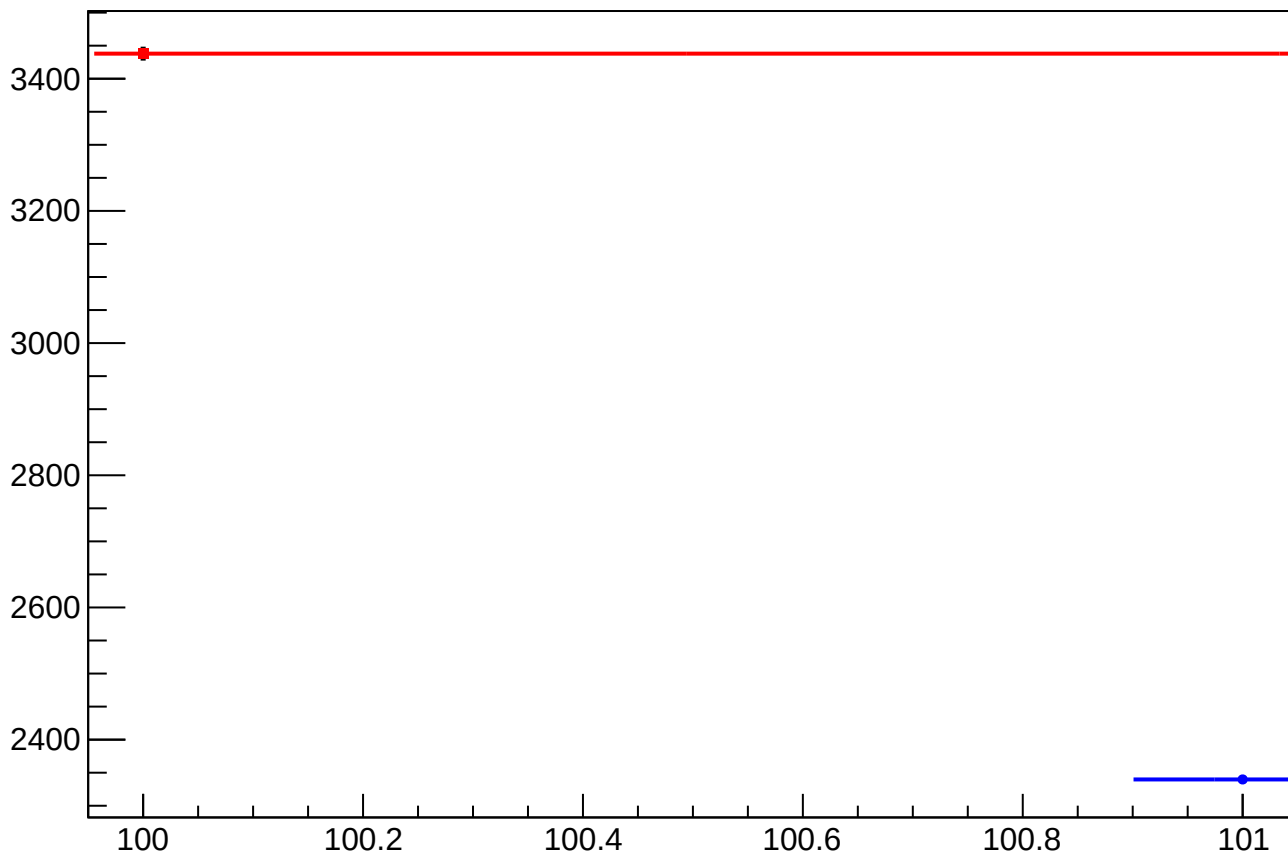
Right: 3977.785+/-2818.447  $\chi^2/\text{NDF}$ : 4.0/1

In: 5248.181+/-2889.668  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3977.785+/-2818.447  $\chi^2/\text{NDF}$ : 4.0/1

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 2339.790 $\pm$ 2.043  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3437.944 $\pm$ 9.032  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 2393.255 $\pm$ 1.993  $\chi^2$ /NDF: 14062.7/1

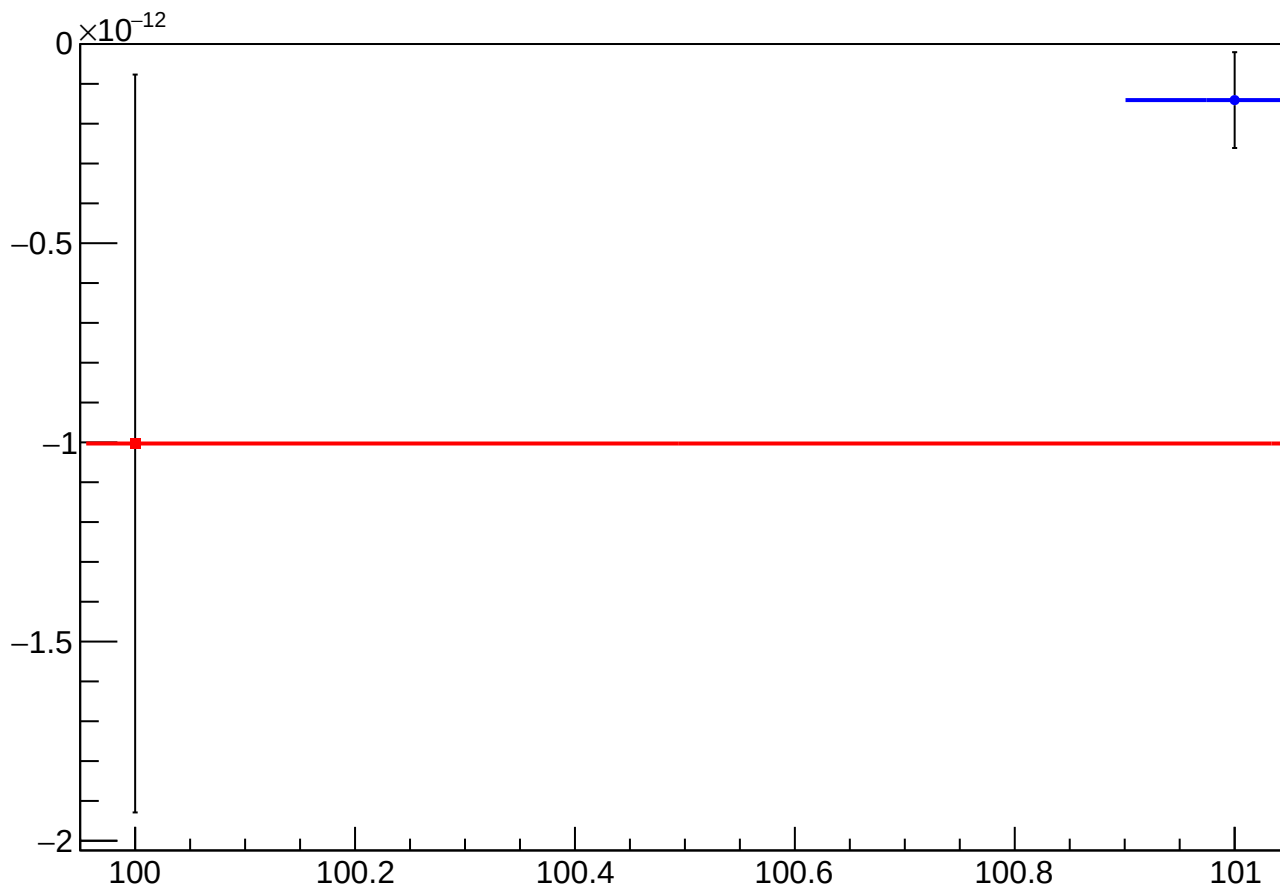
In: 2339.790 $\pm$ 2.043  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2393.255 $\pm$ 1.993  $\chi^2$ /NDF: 14062.7/1



asym\_sam\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

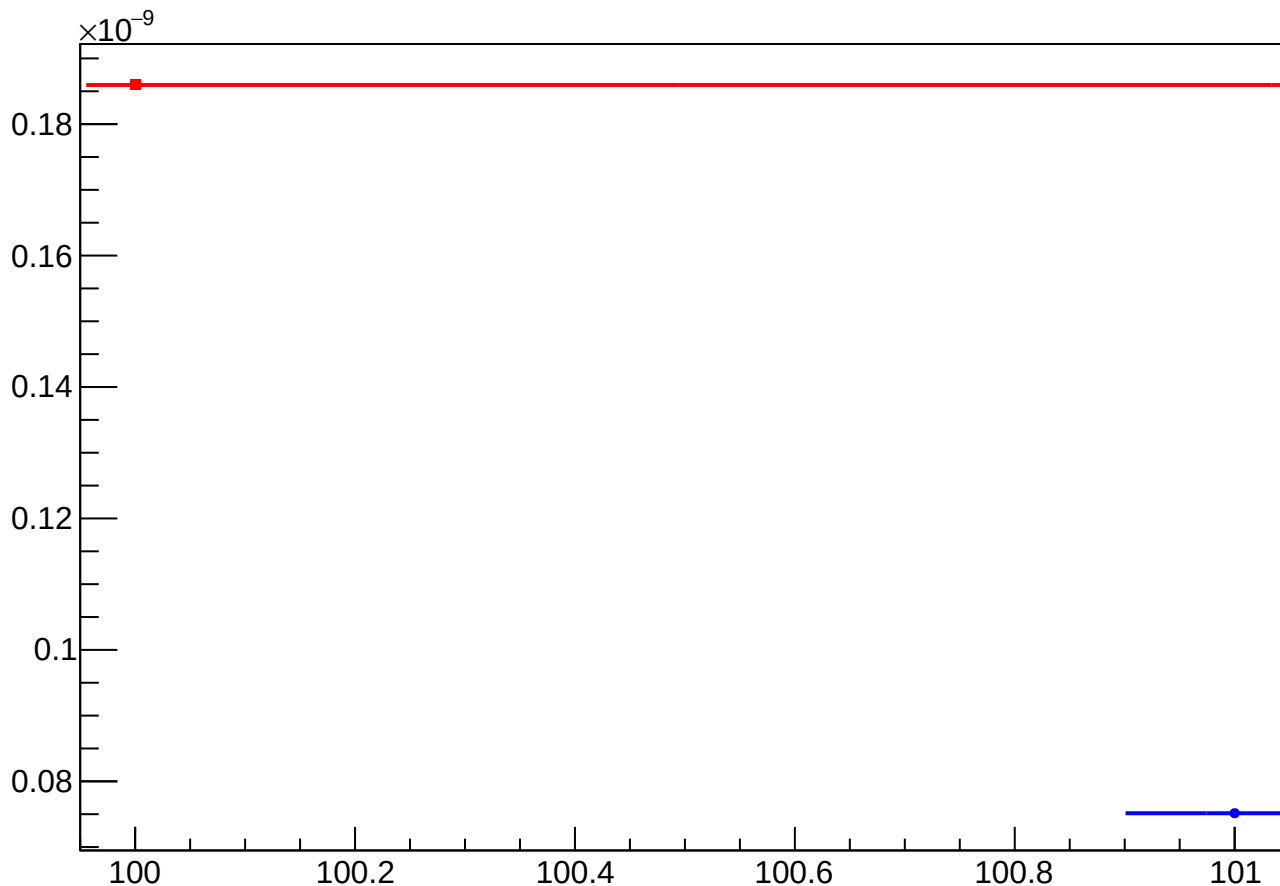
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

asym\_sam\_26\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

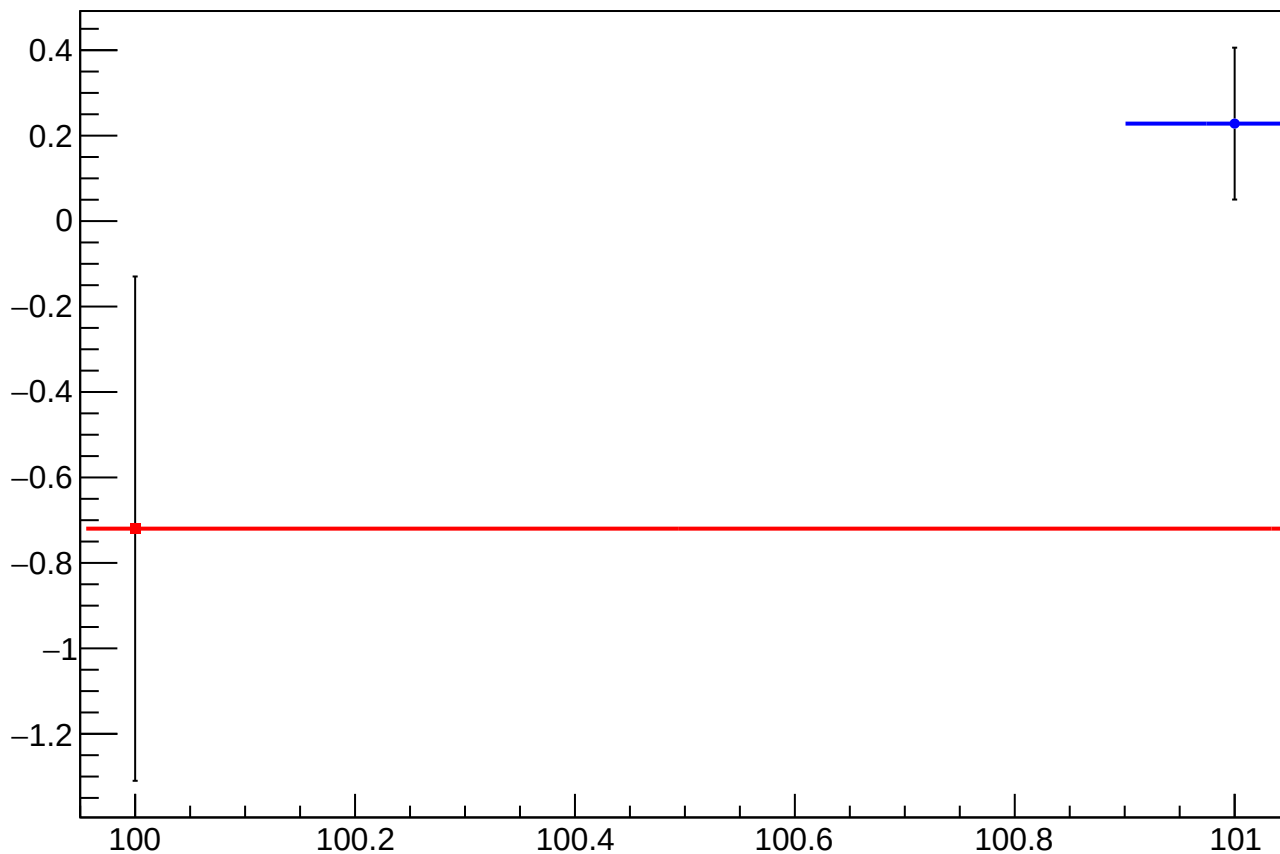
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28159.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 28159.6/1

asym\_sam\_26\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.228 $\pm$ 0.178  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.720 $\pm$ 0.590  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

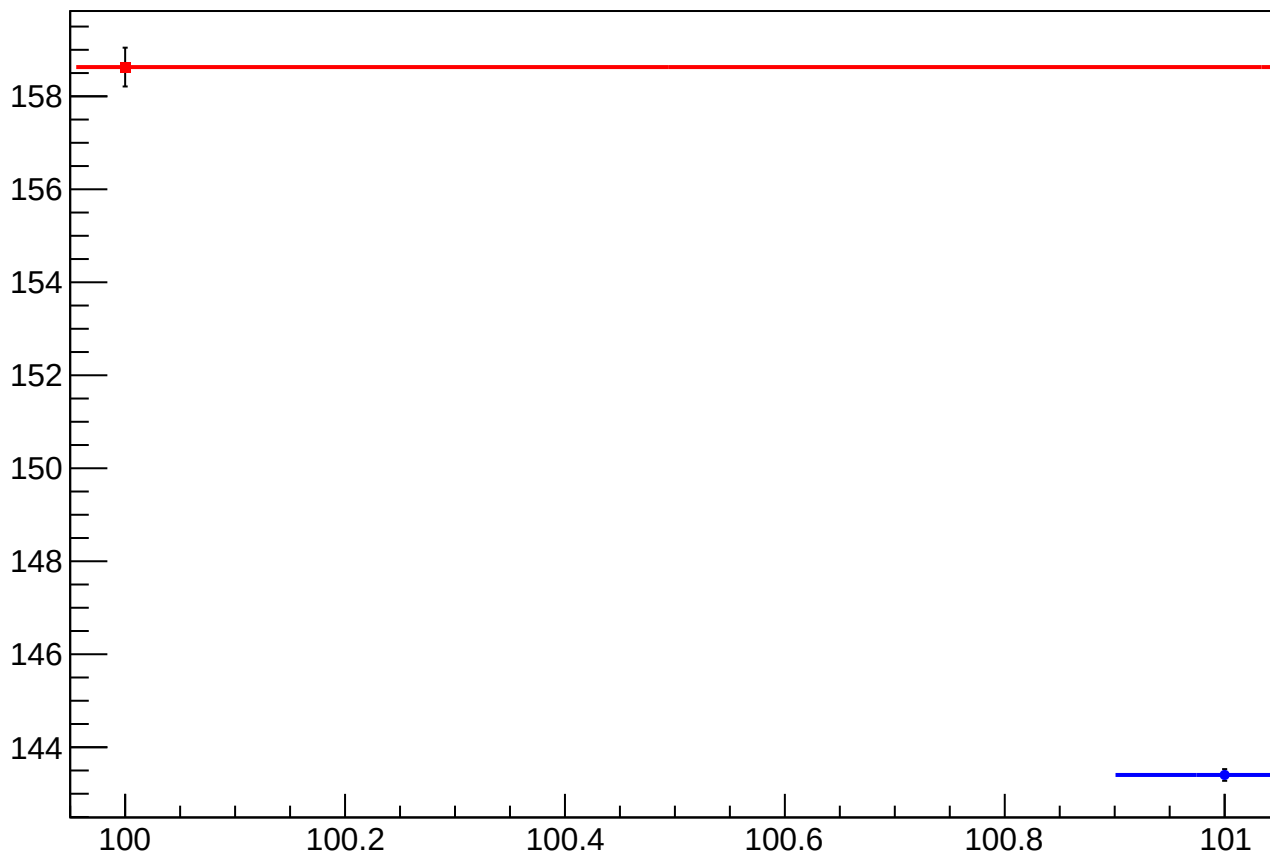
Right: 0.149 $\pm$ 0.170  $\chi^2/\text{NDF}$ : 2.4/1

In: 0.228 $\pm$ 0.178  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.149 $\pm$ 0.170  $\chi^2/\text{NDF}$ : 2.4/1

asym\_sam\_26\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 143.404 $\pm$ 0.126  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 158.629 $\pm$ 0.417  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

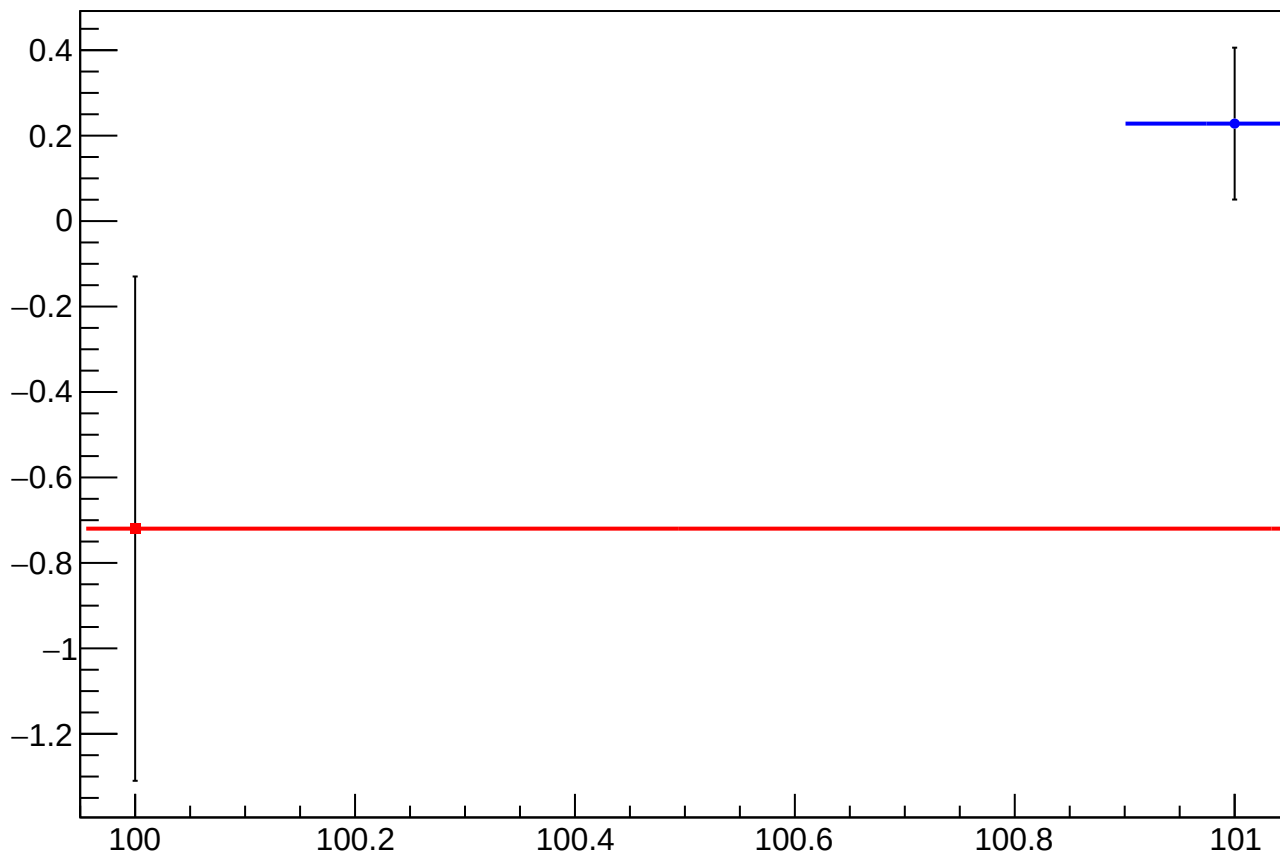
Right: 144.670 $\pm$ 0.120  $\chi^2$ /NDF: 1220.4/1

In: 143.404 $\pm$ 0.126  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 144.670 $\pm$ 0.120  $\chi^2$ /NDF: 1220.4/1

asym\_sam\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.228 $\pm$ 0.178  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.720 $\pm$ 0.590  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

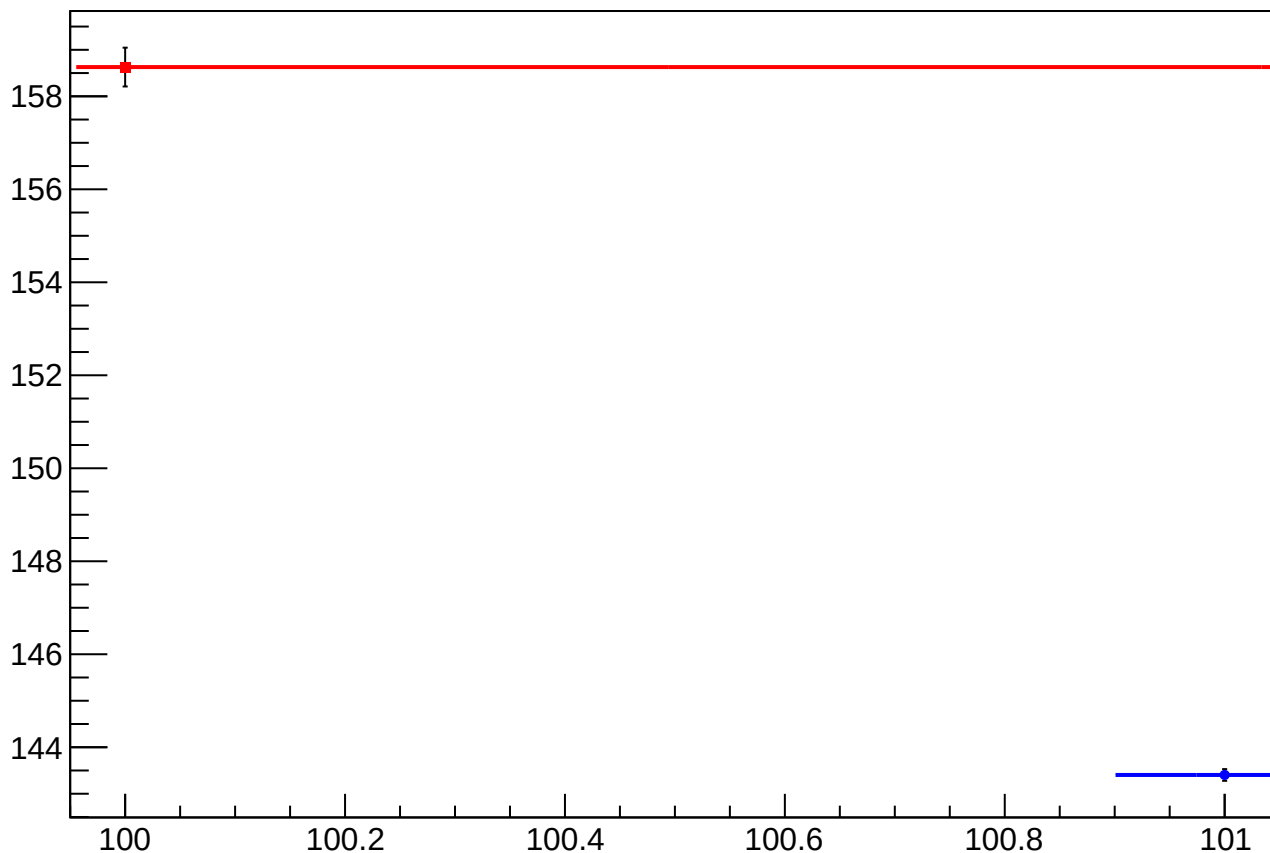
Right: 0.149 $\pm$ 0.170  $\chi^2$ /NDF: 2.4/1

In: 0.228 $\pm$ 0.178  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.149 $\pm$ 0.170  $\chi^2$ /NDF: 2.4/1

asym\_sam\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 143.404 $\pm$ 0.126  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 158.629 $\pm$ 0.417  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

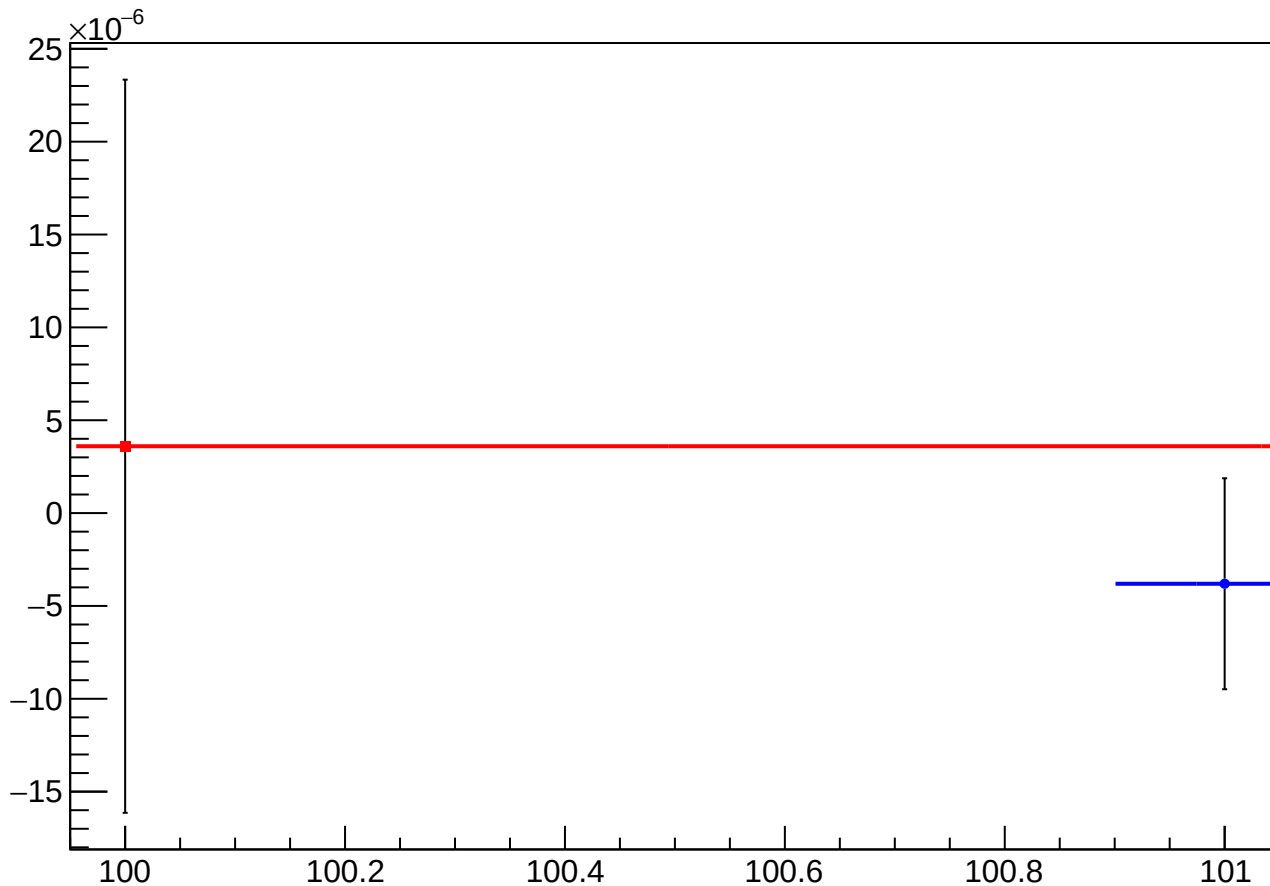
Right: 144.670 $\pm$ 0.120  $\chi^2$ /NDF: 1220.4/1

In: 143.404 $\pm$ 0.126  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 144.670 $\pm$ 0.120  $\chi^2$ /NDF: 1220.4/1

asym\_sam\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

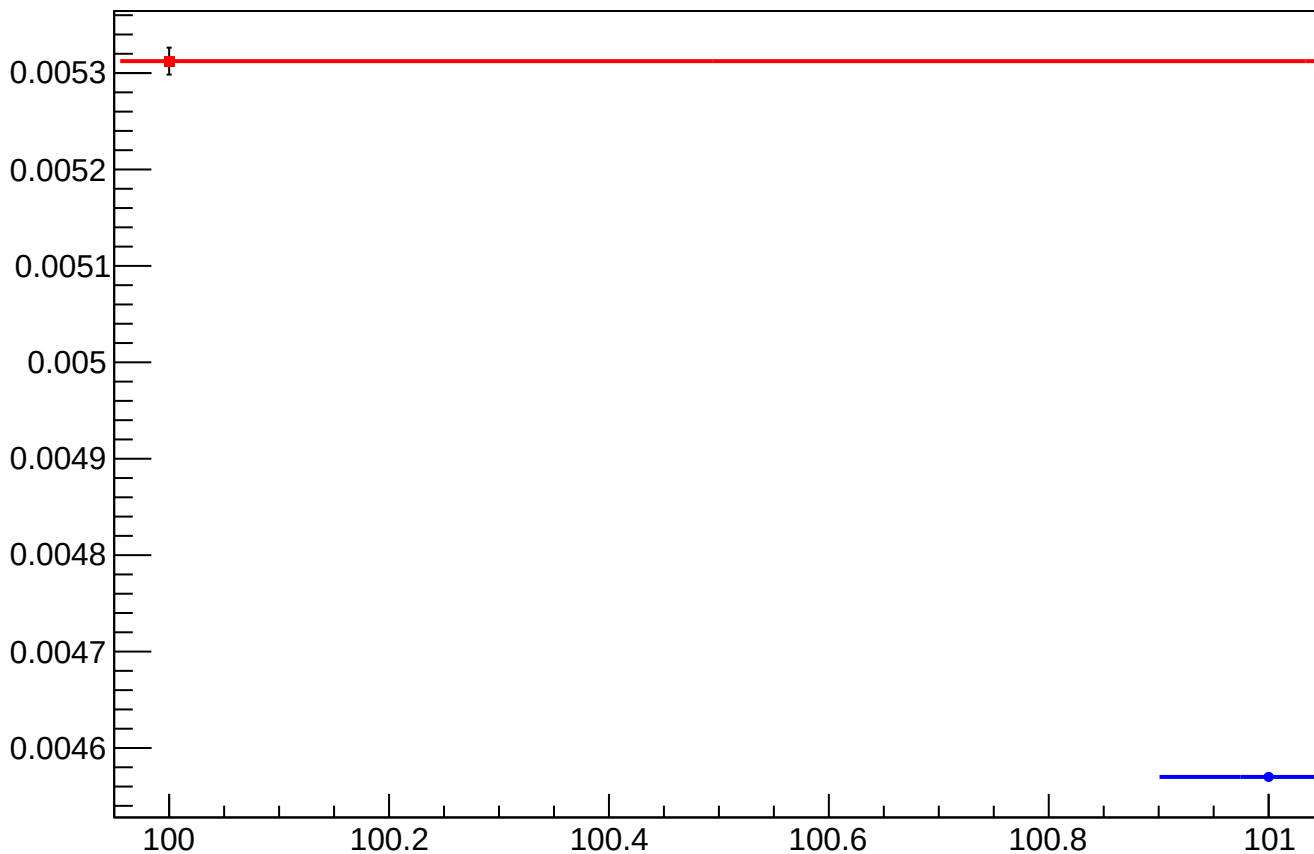
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2612.6/1

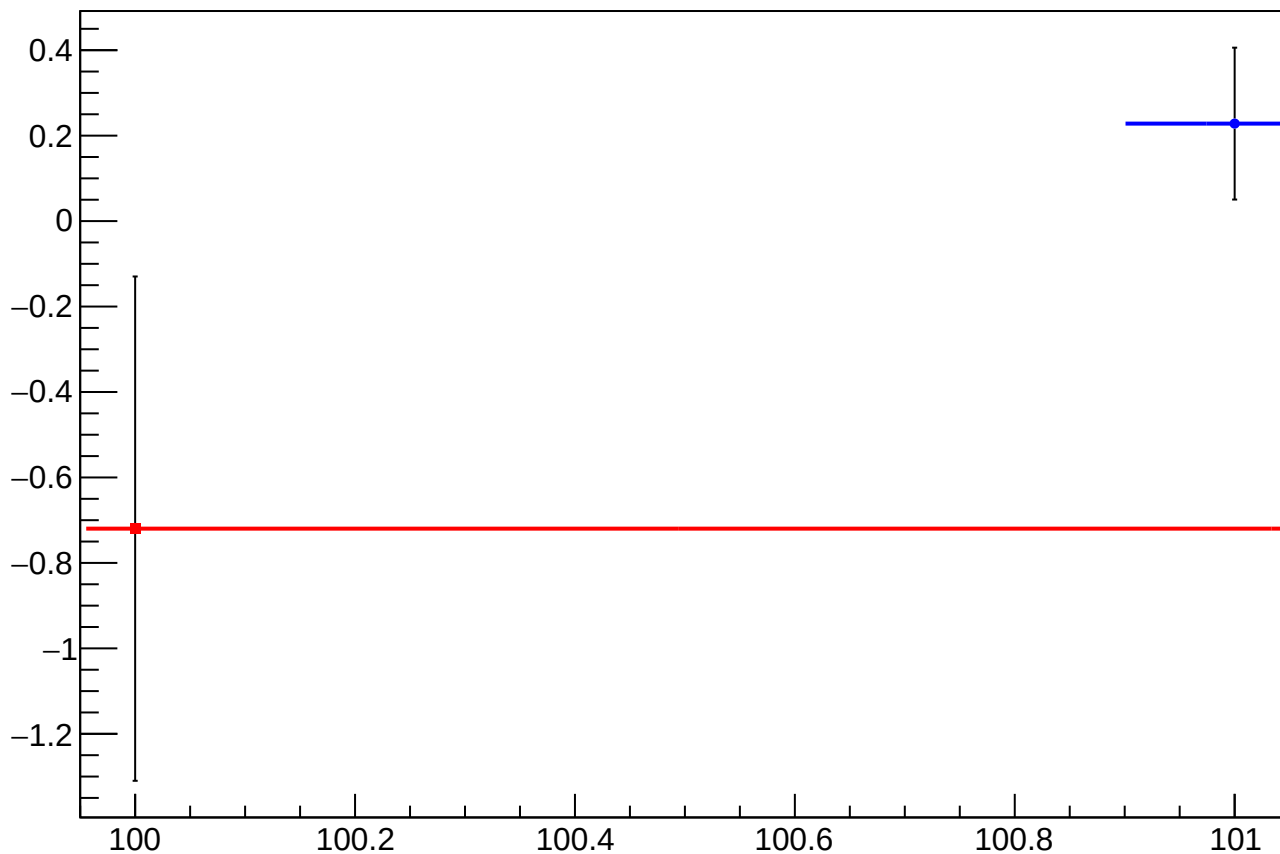
In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2612.6/1



asym\_sam\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.228+/-0.178  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.720+/-0.590  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

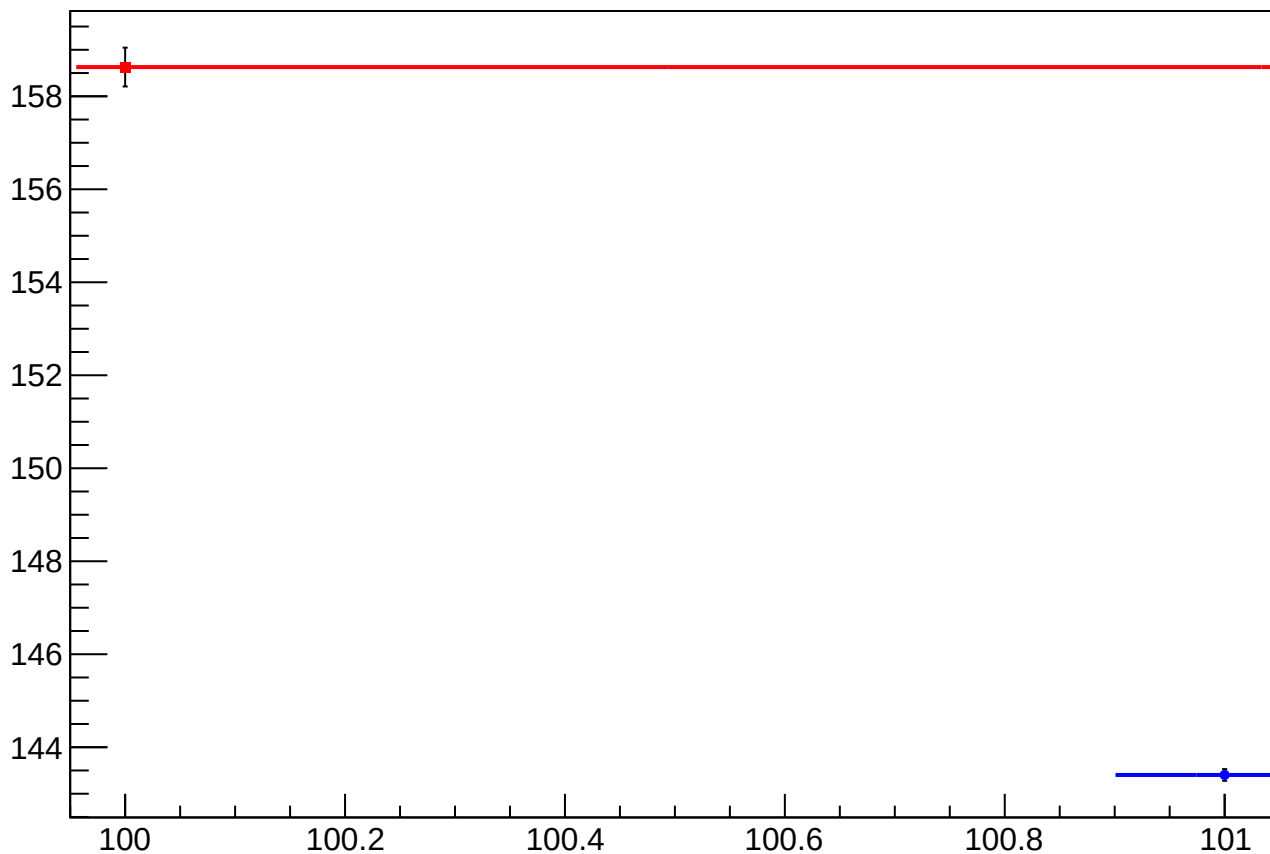
Right: 0.149+/-0.170  $\chi^2/\text{NDF}$ : 2.4/1

In: 0.228+/-0.178  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.149+/-0.170  $\chi^2/\text{NDF}$ : 2.4/1

asym\_sam\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 143.404 $\pm$ 0.126  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 158.628 $\pm$ 0.417  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

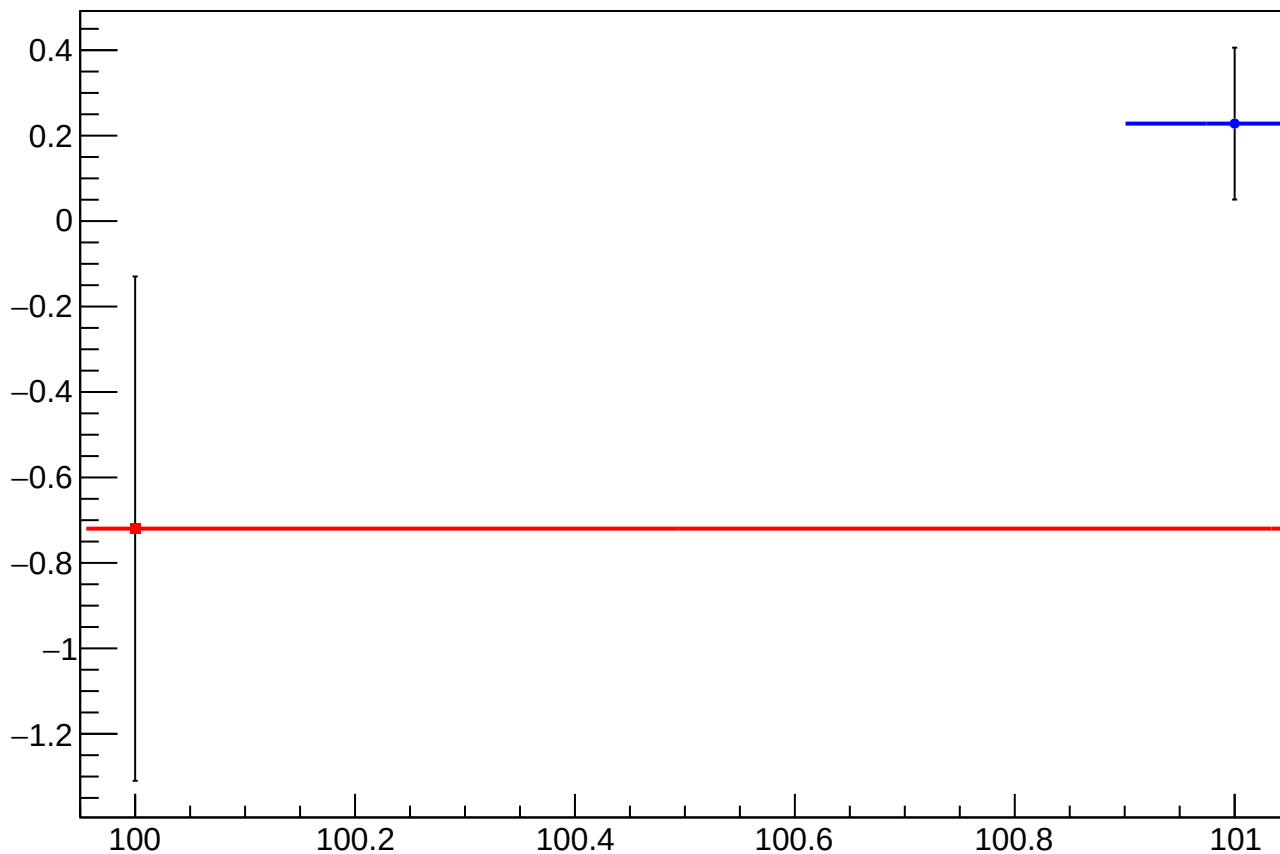
Right: 144.670 $\pm$ 0.120  $\chi^2$ /NDF: 1220.4/1

In: 143.404 $\pm$ 0.126  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 144.670 $\pm$ 0.120  $\chi^2$ /NDF: 1220.4/1

asym\_sam\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.228 $\pm$ 0.178  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.720 $\pm$ 0.590  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

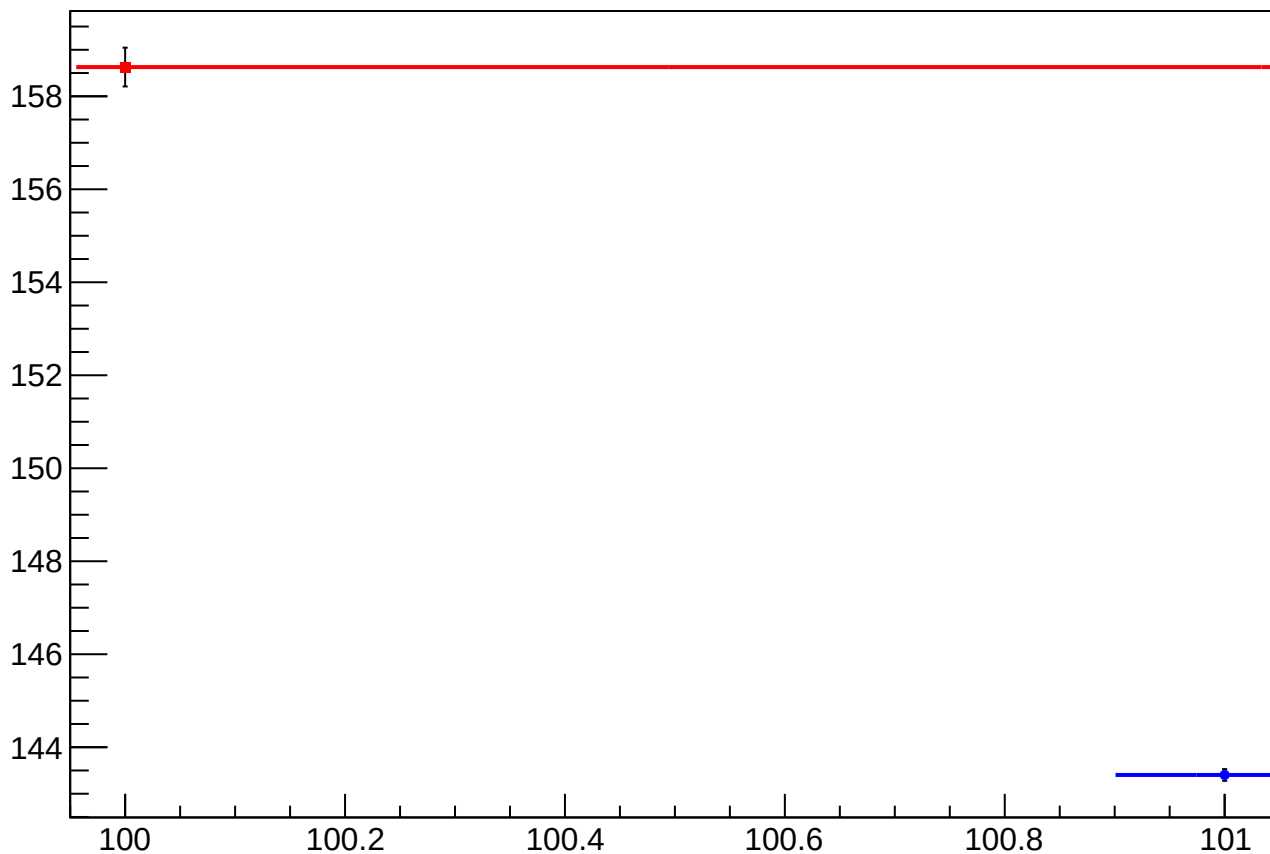
Right: 0.149 $\pm$ 0.170  $\chi^2$ /NDF: 2.4/1

In: 0.228 $\pm$ 0.178  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.149 $\pm$ 0.170  $\chi^2$ /NDF: 2.4/1

asym\_sam\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 143.404 $\pm$ 0.126  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 158.628 $\pm$ 0.417  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

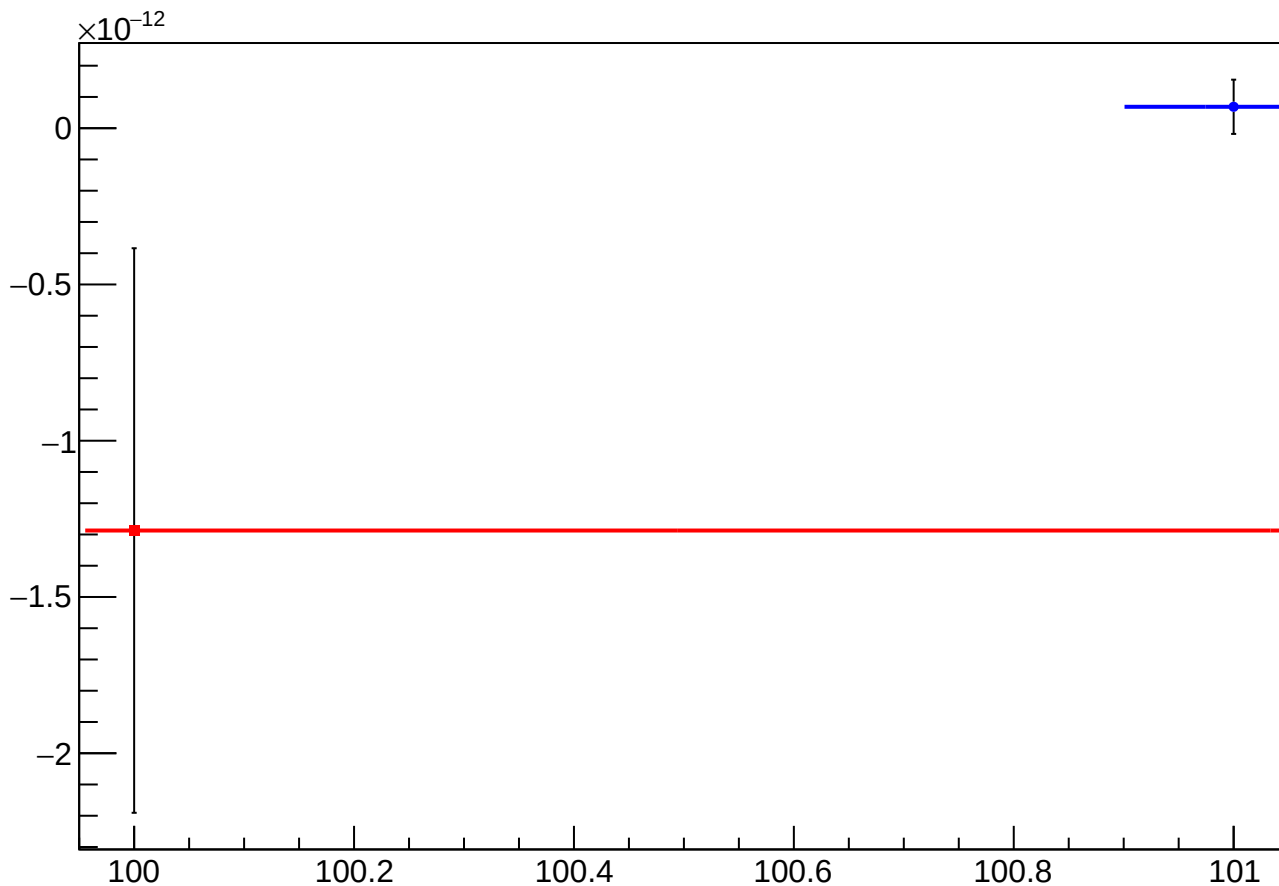
Right: 144.670 $\pm$ 0.120  $\chi^2$ /NDF: 1220.4/1

In: 143.404 $\pm$ 0.126  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 144.670 $\pm$ 0.120  $\chi^2$ /NDF: 1220.4/1

asym\_sam\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

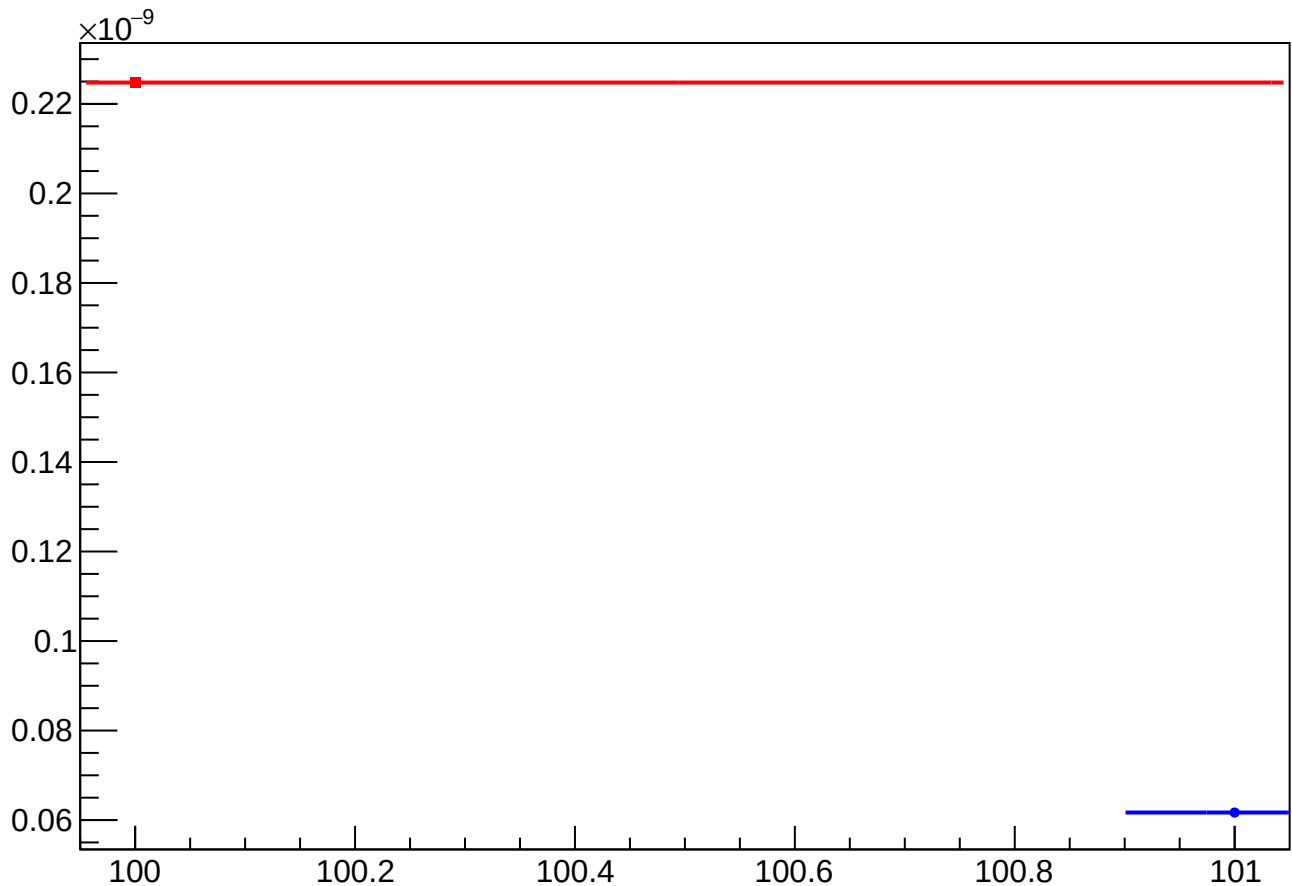
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

asym\_sam\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

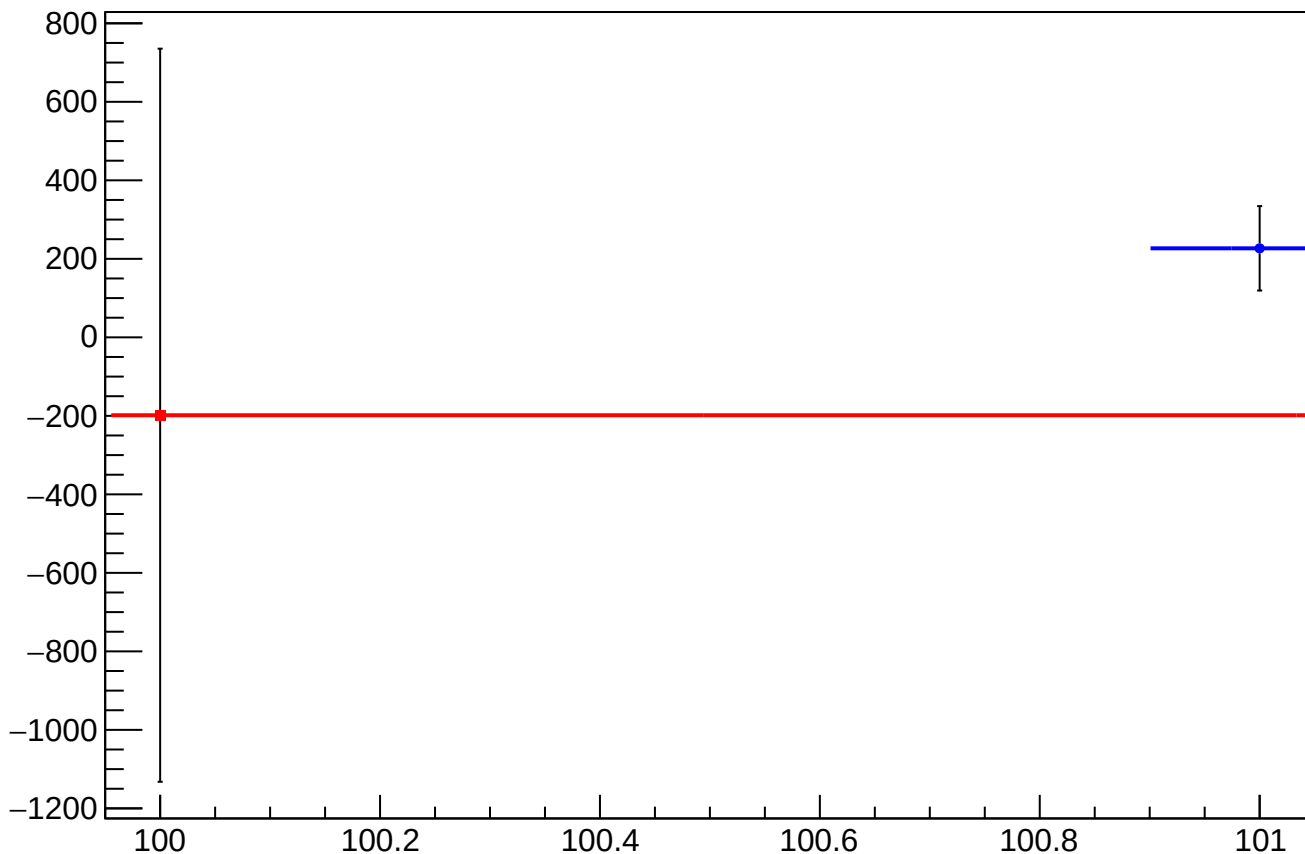
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 64610.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 64610.8/1

reg\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 226.768 $\pm$ 107.560  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -198.443 $\pm$ 933.845  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

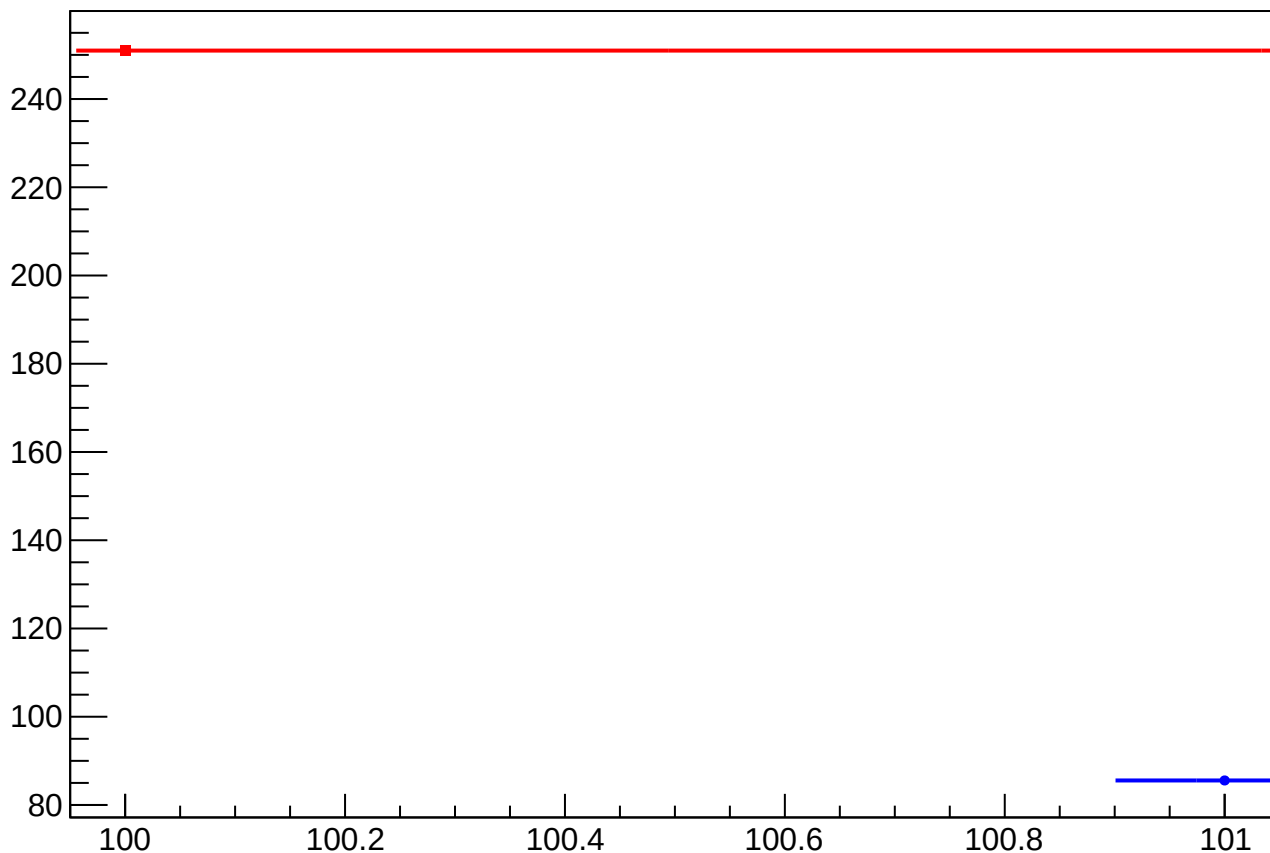
Right: 221.201 $\pm$ 106.854  $\chi^2$ /NDF: 0.2/1

In: 226.768 $\pm$ 107.560  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 221.201 $\pm$ 106.854  $\chi^2$ /NDF: 0.2/1

# reg\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 85.556 $\pm$ 0.076  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 250.976 $\pm$ 0.660  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 87.722 $\pm$ 0.076  $\chi^2$ /NDF: 61934.5/1

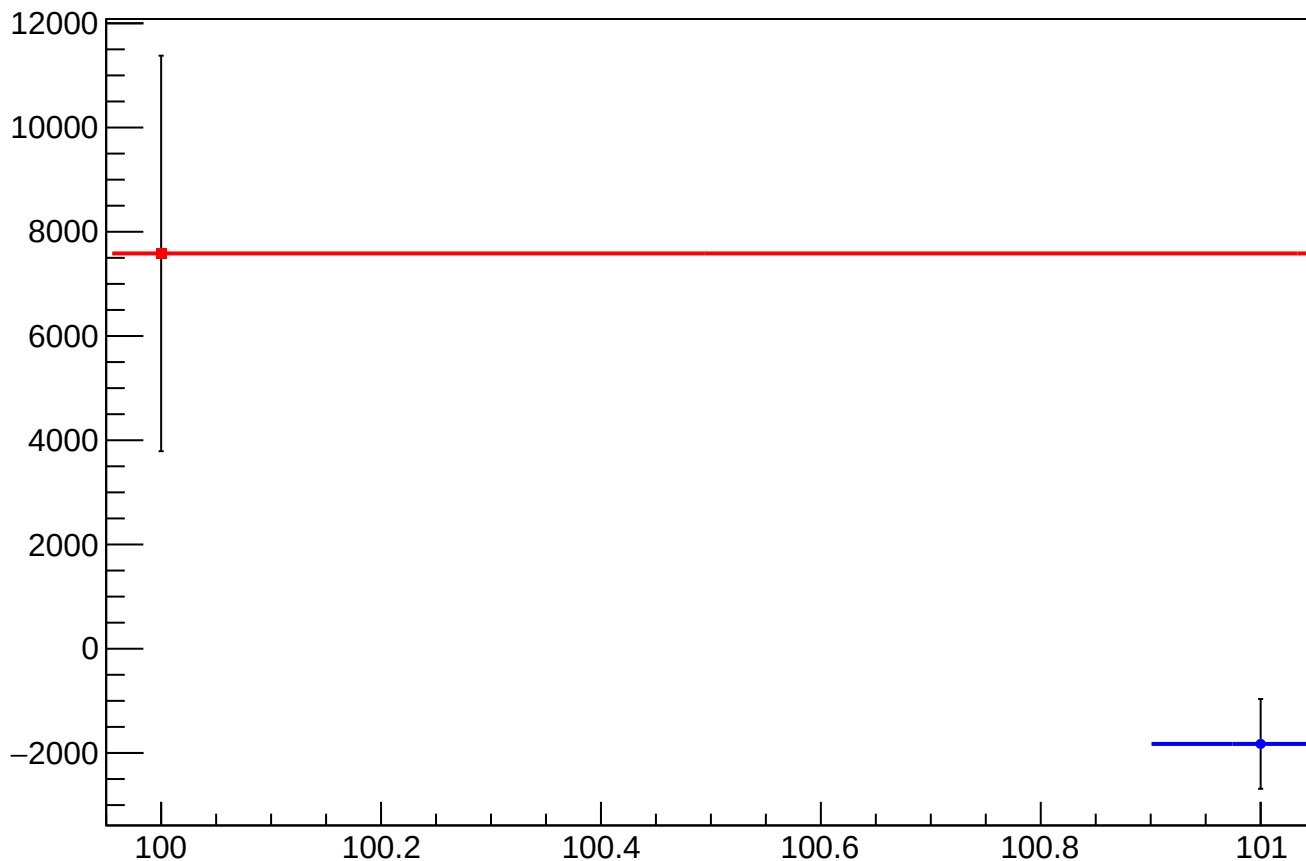
In: 85.556 $\pm$ 0.076  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 87.722 $\pm$ 0.076  $\chi^2$ /NDF: 61934.5/1



asym\_sam\_37\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1826.319+/-861.153  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7584.349+/-3794.456  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

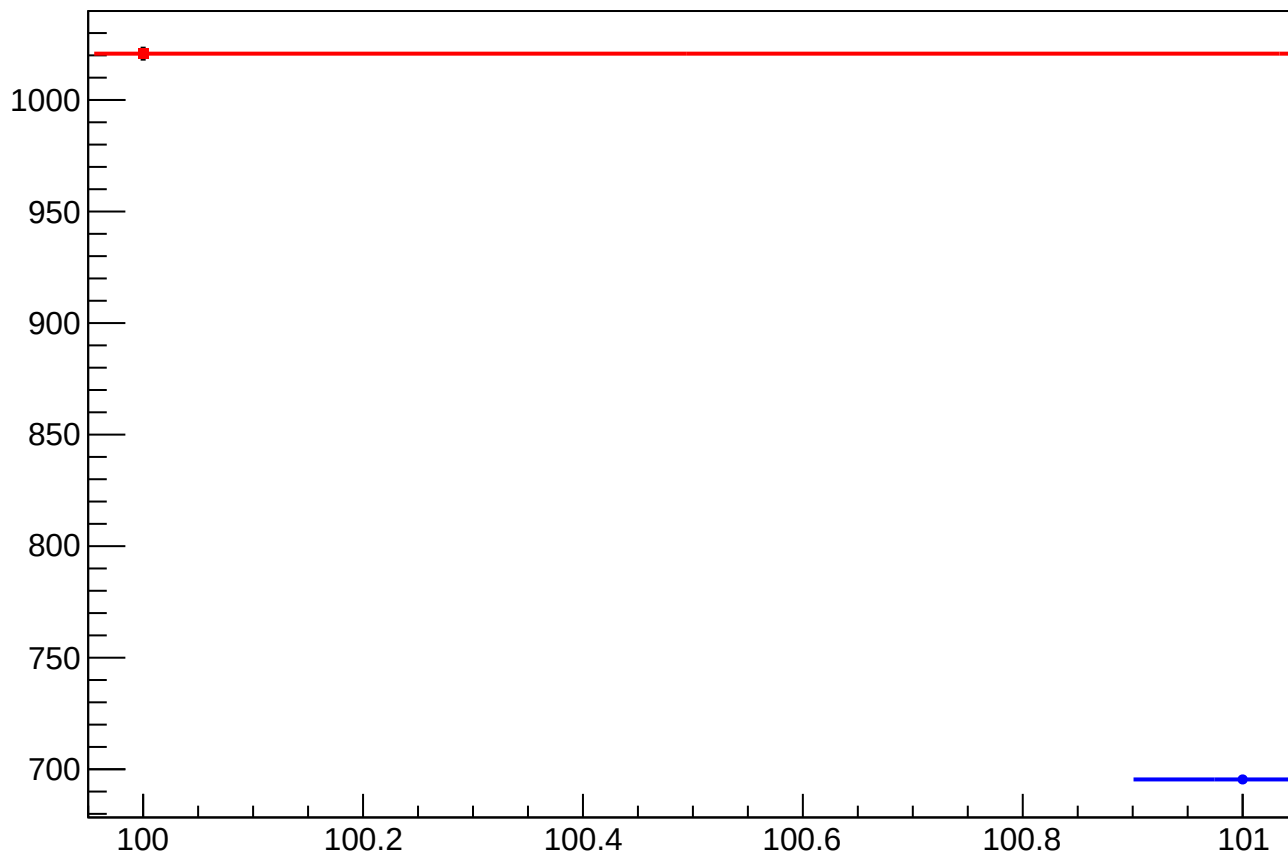
Right: -1365.352+/-839.797  $\chi^2/\text{NDF}$ : 5.8/1

In: -1826.319+/-861.153  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1365.352+/-839.797  $\chi^2/\text{NDF}$ : 5.8/1

asym\_sam\_37\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 695.431+/-0.609  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1020.763+/-2.683  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

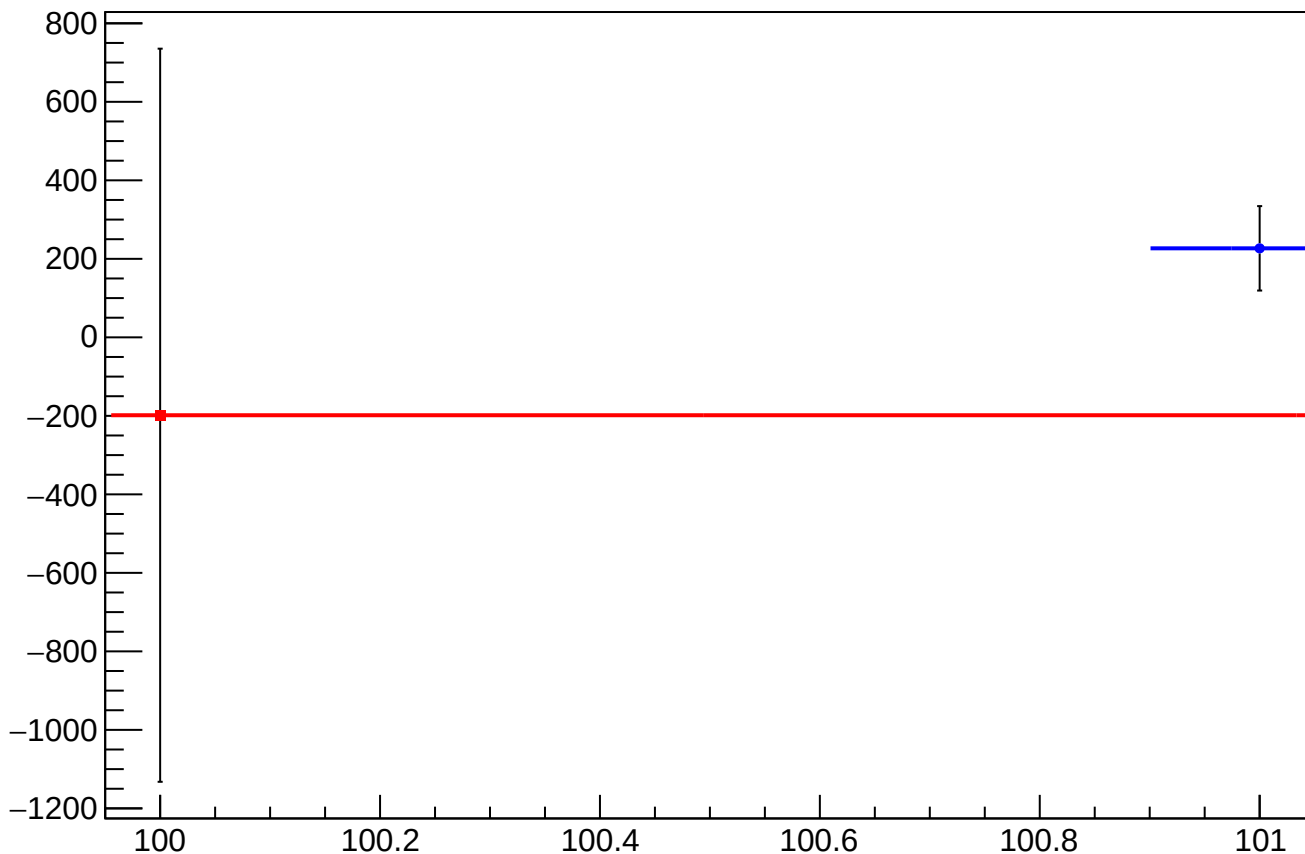
Right: 711.367+/-0.594  $\chi^2/\text{NDF}$ : 13982.1/1

In: 695.431+/-0.609  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 711.367+/-0.594  $\chi^2/\text{NDF}$ : 13982.1/1

cor\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 226.767 $\pm$ 107.560  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -198.439 $\pm$ 933.845  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

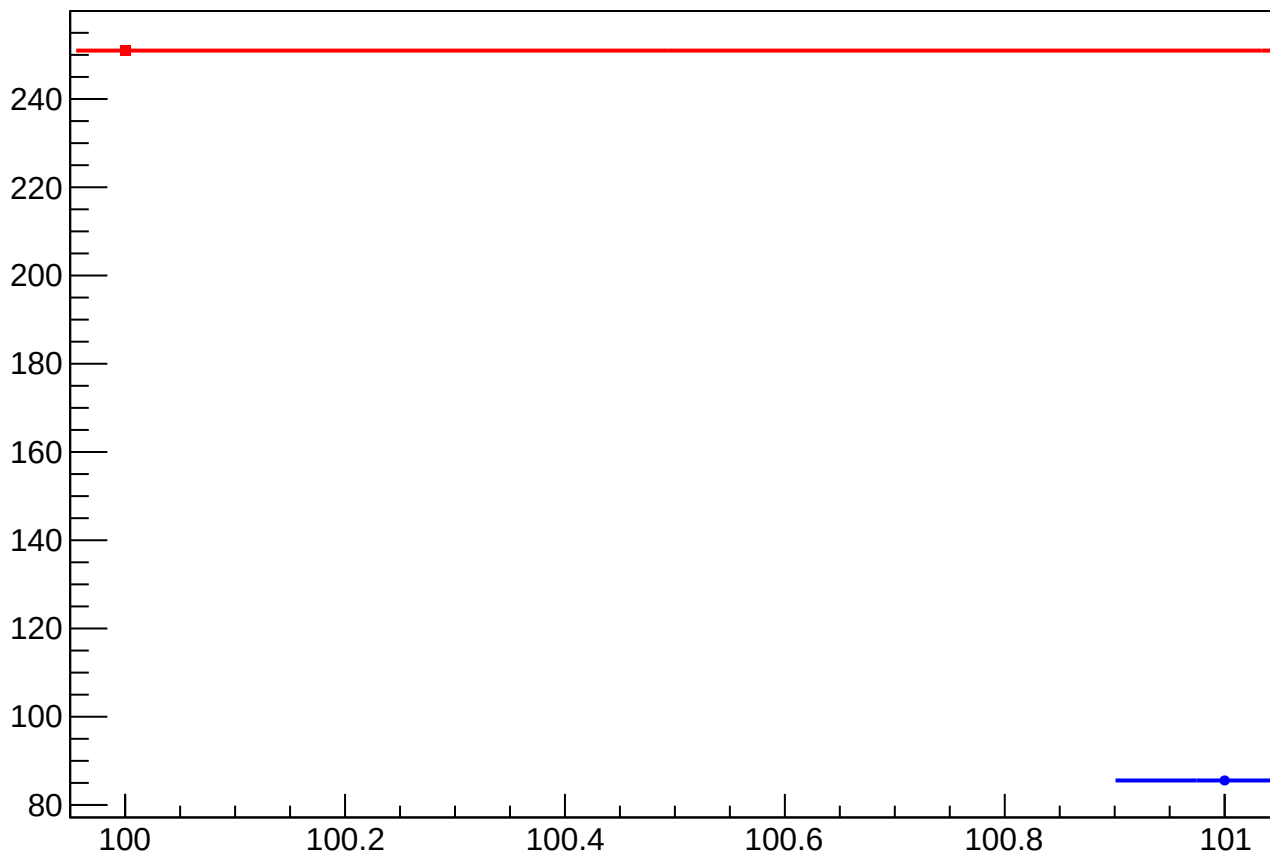
Right: 221.200 $\pm$ 106.854  $\chi^2$ /NDF: 0.2/1

In: 226.767 $\pm$ 107.560  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 221.200 $\pm$ 106.854  $\chi^2$ /NDF: 0.2/1

cor\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 85.556+/-0.076  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 250.976+/-0.660  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

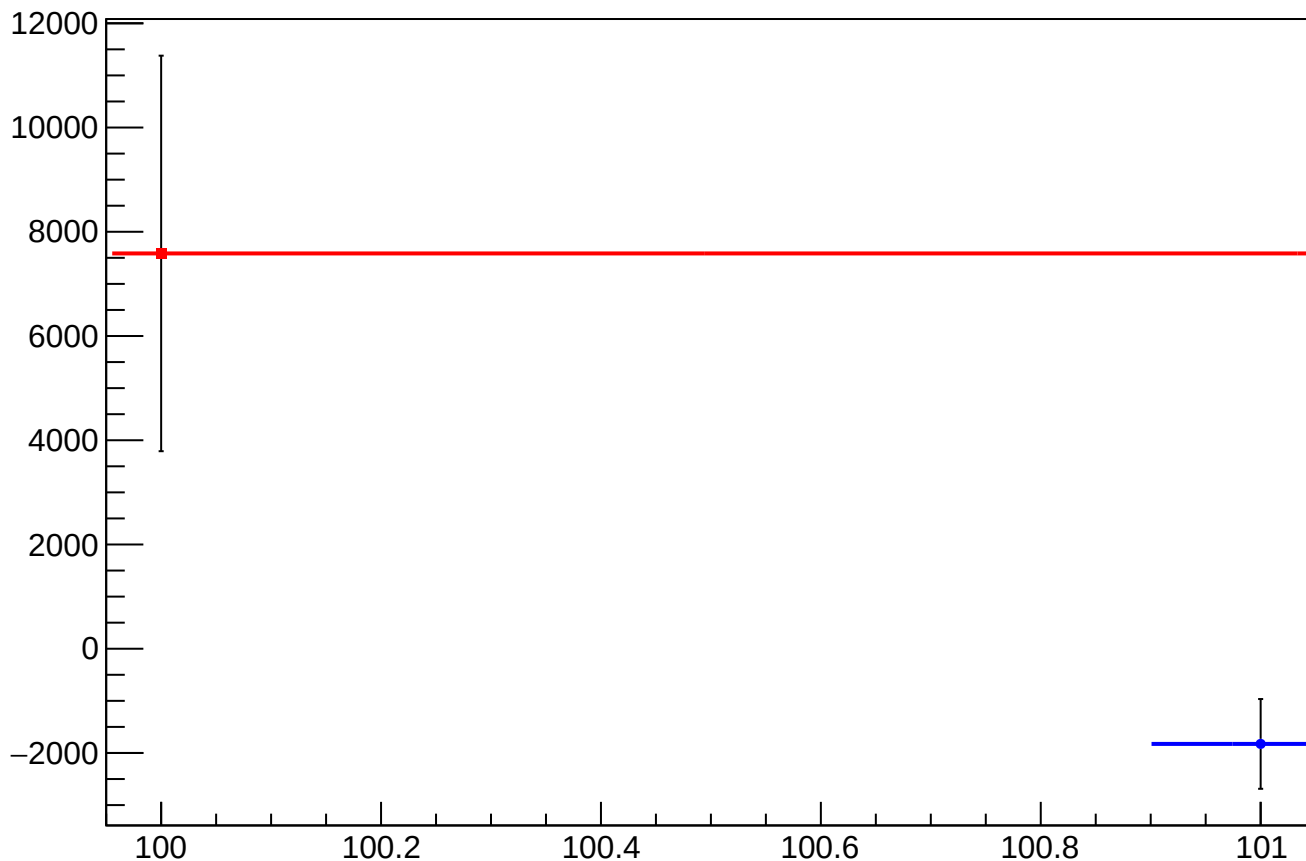
Right: 87.722+/-0.076  $\chi^2/\text{NDF}$ : 61934.5/1

In: 85.556+/-0.076  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.722+/-0.076  $\chi^2/\text{NDF}$ : 61934.5/1

asym\_sam\_37\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1826.318 $\pm$ 861.154  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7584.351 $\pm$ 3794.457  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

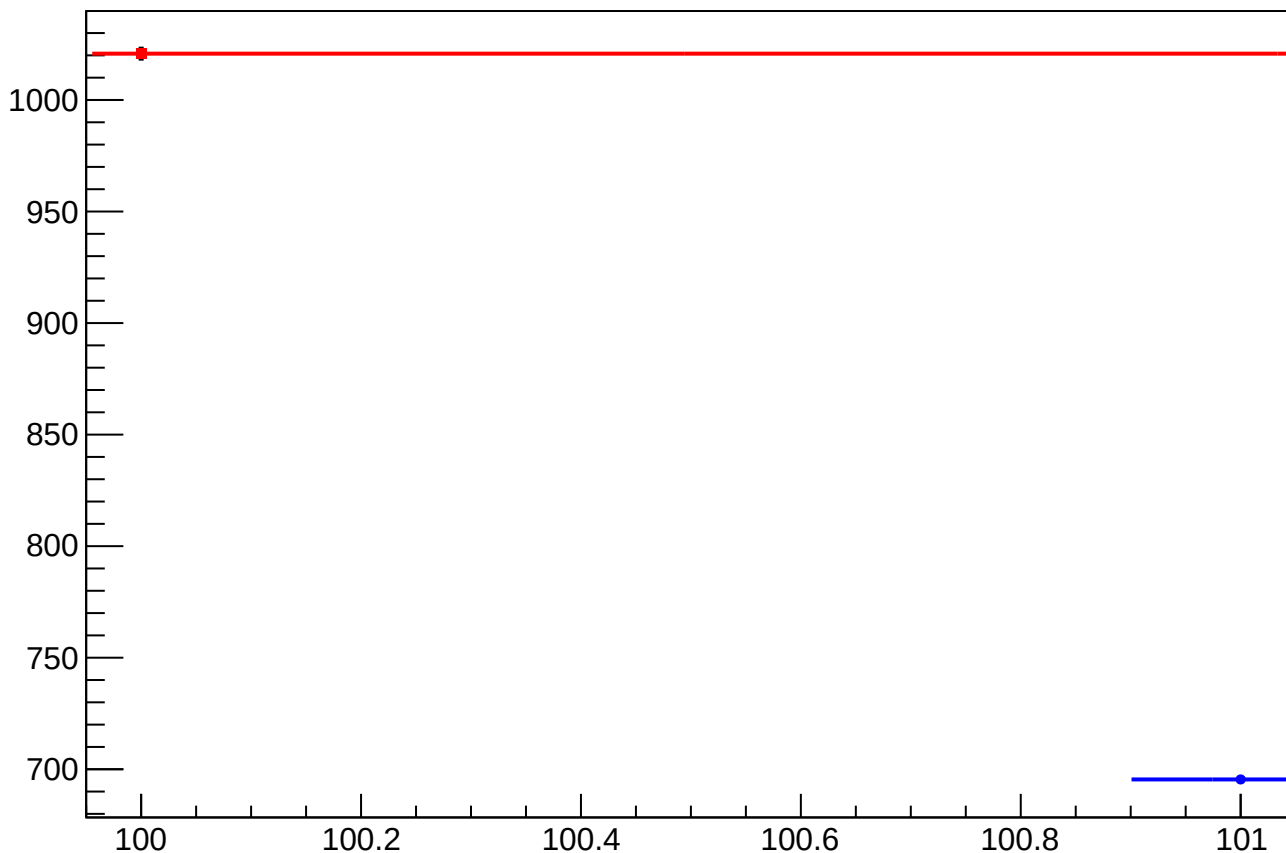
Right: -1365.351 $\pm$ 839.798  $\chi^2$ /NDF: 5.8/1

In: -1826.318 $\pm$ 861.154  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -1365.351 $\pm$ 839.798  $\chi^2$ /NDF: 5.8/1

asym\_sam\_37\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 695.432 $\pm$ 0.609  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1020.764 $\pm$ 2.683  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

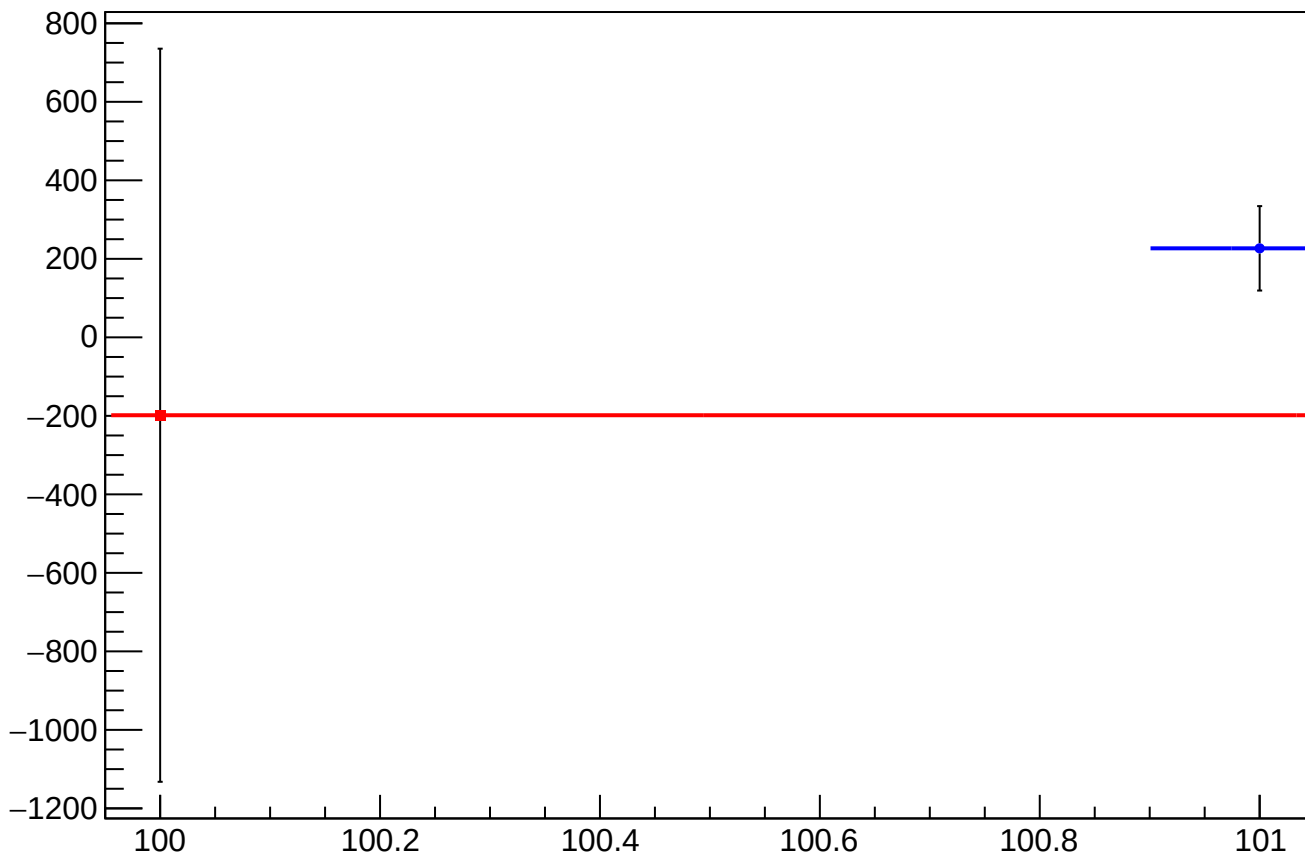
Right: 711.368 $\pm$ 0.594  $\chi^2$ /NDF: 13982.1/1

In: 695.432 $\pm$ 0.609  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 711.368 $\pm$ 0.594  $\chi^2$ /NDF: 13982.1/1

eigen\_cor\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 226.767+/-107.560  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -198.439+/-933.845  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

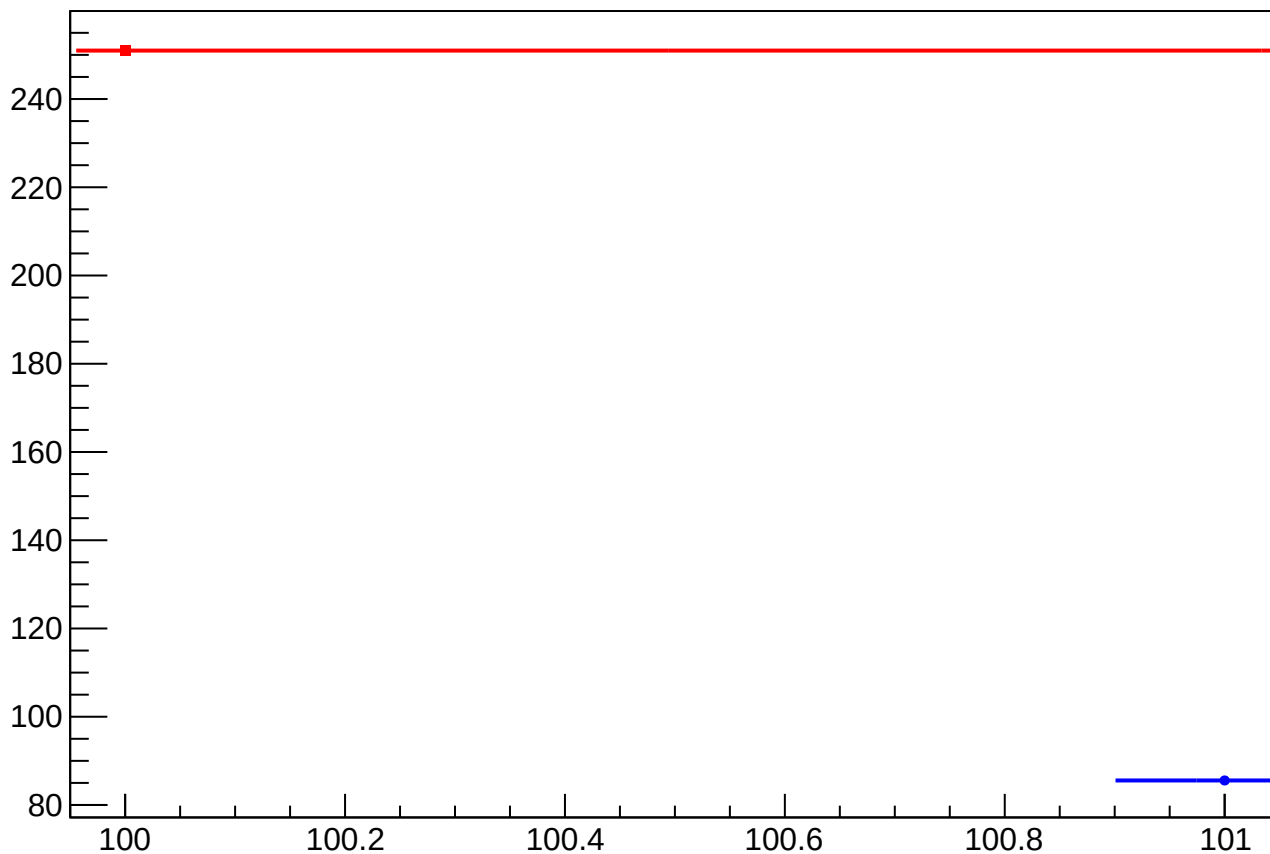
Right: 221.200+/-106.854  $\chi^2$ /NDF: 0.2/1

In: 226.767+/-107.560  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 221.200+/-106.854  $\chi^2$ /NDF: 0.2/1

eigen\_cor\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 85.556+/-0.076  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 250.976+/-0.660  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 87.722+/-0.076  $\chi^2/\text{NDF}$ : 61934.5/1

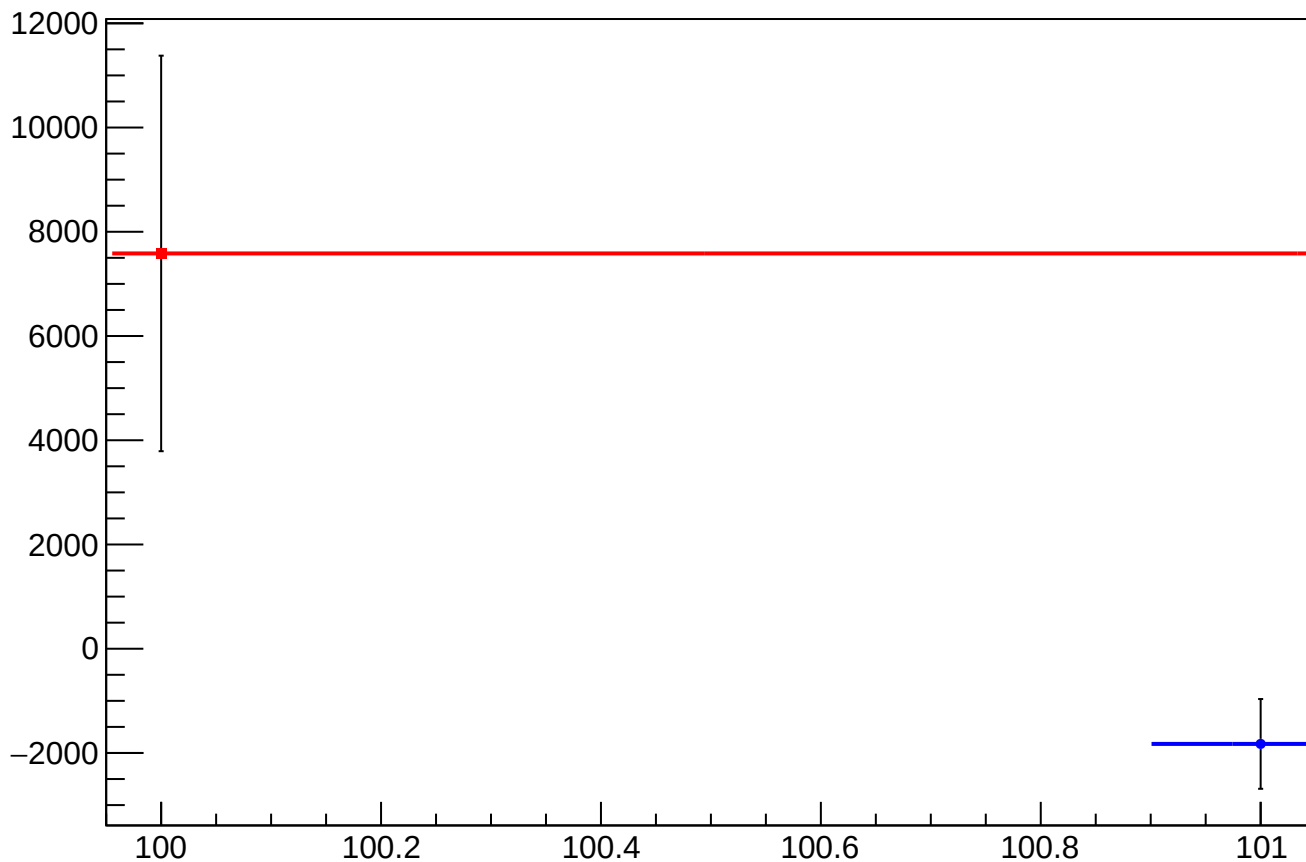
In: 85.556+/-0.076  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.722+/-0.076  $\chi^2/\text{NDF}$ : 61934.5/1



asym\_sam\_37\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1826.318+/-861.154  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 7584.351+/-3794.457  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

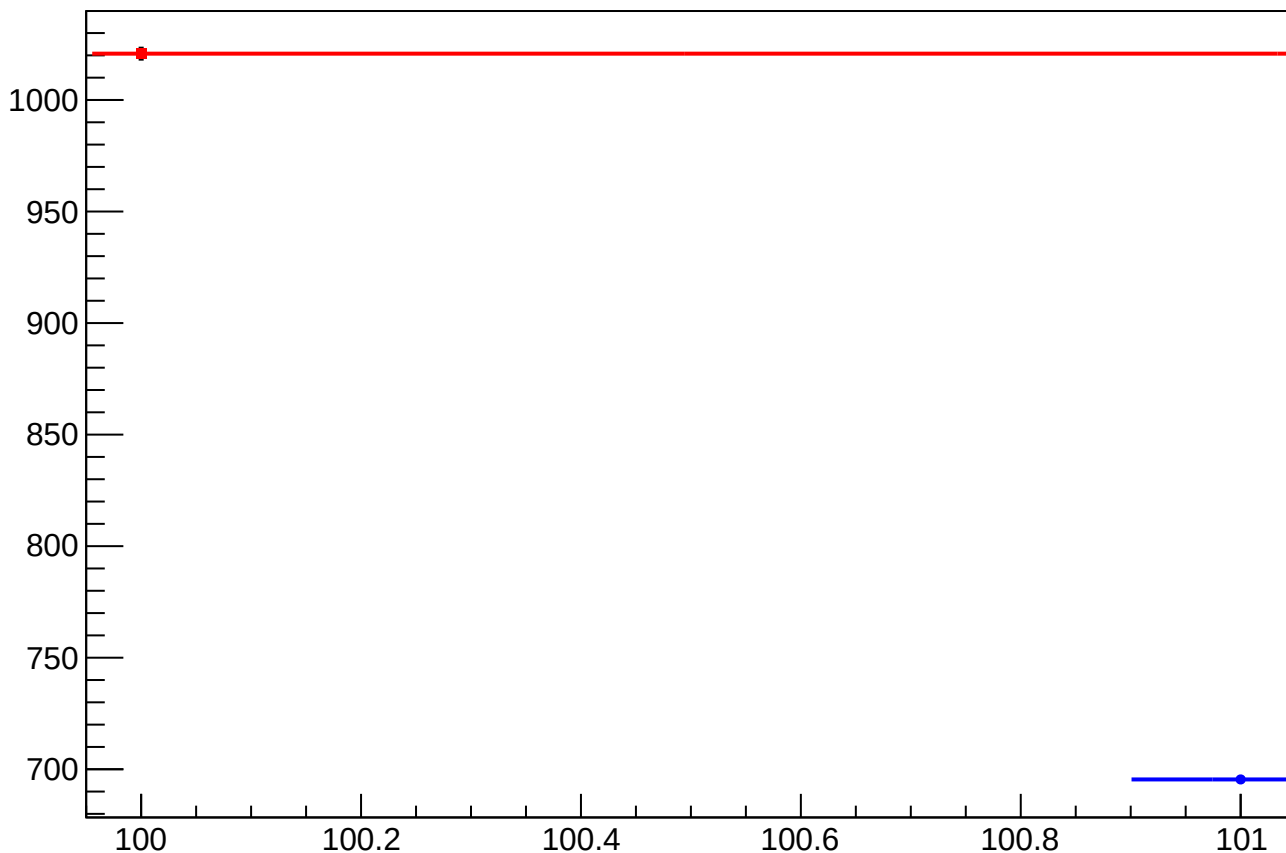
Right: -1365.351+/-839.798  $\chi^2/\text{NDF}$ : 5.8/1

In: -1826.318+/-861.154  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1365.351+/-839.798  $\chi^2/\text{NDF}$ : 5.8/1

asym\_sam\_37\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 695.432 $\pm$ 0.609  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1020.764 $\pm$ 2.683  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

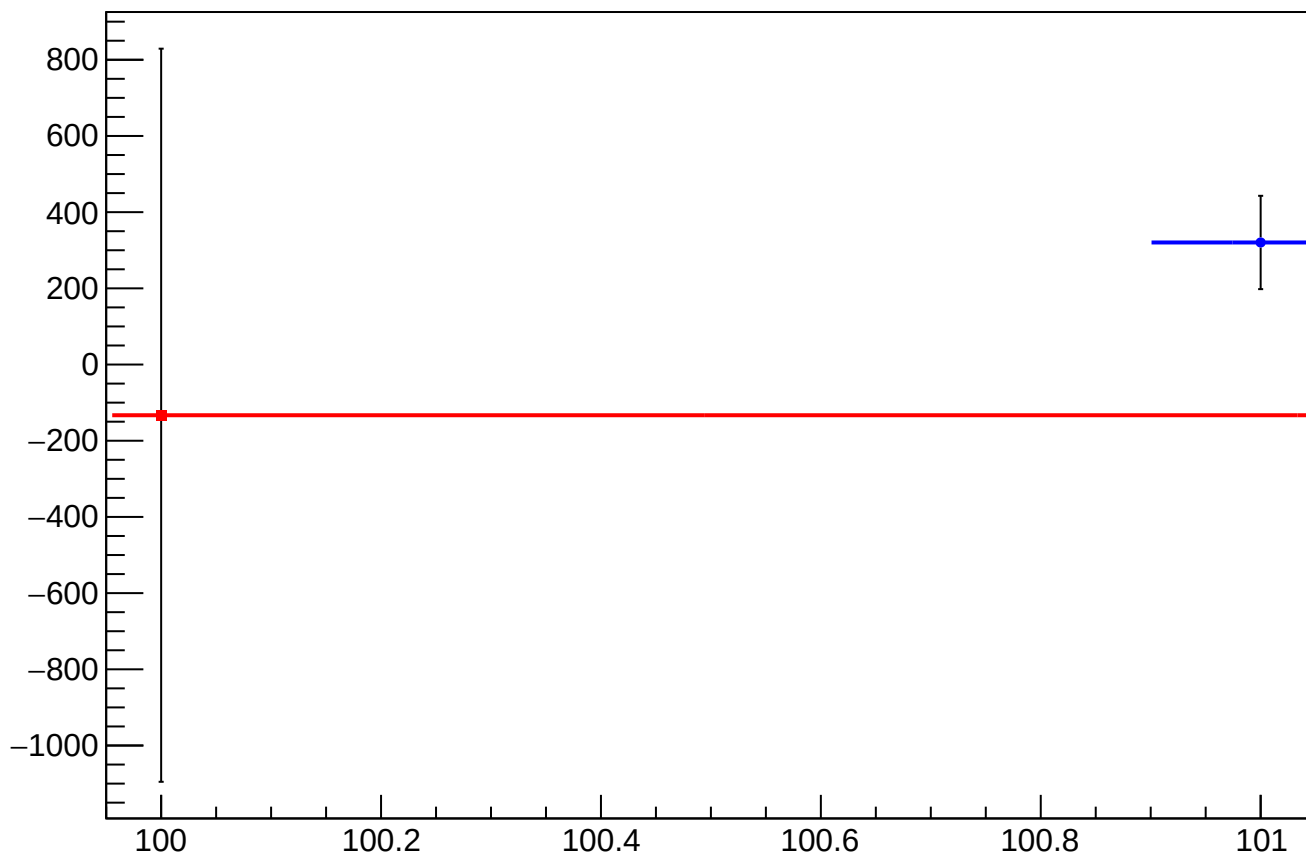
Right: 711.368 $\pm$ 0.594  $\chi^2$ /NDF: 13982.1/1

In: 695.432 $\pm$ 0.609  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 711.368 $\pm$ 0.594  $\chi^2$ /NDF: 13982.1/1

dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 320.427+/-122.478  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -133.057+/-962.195  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

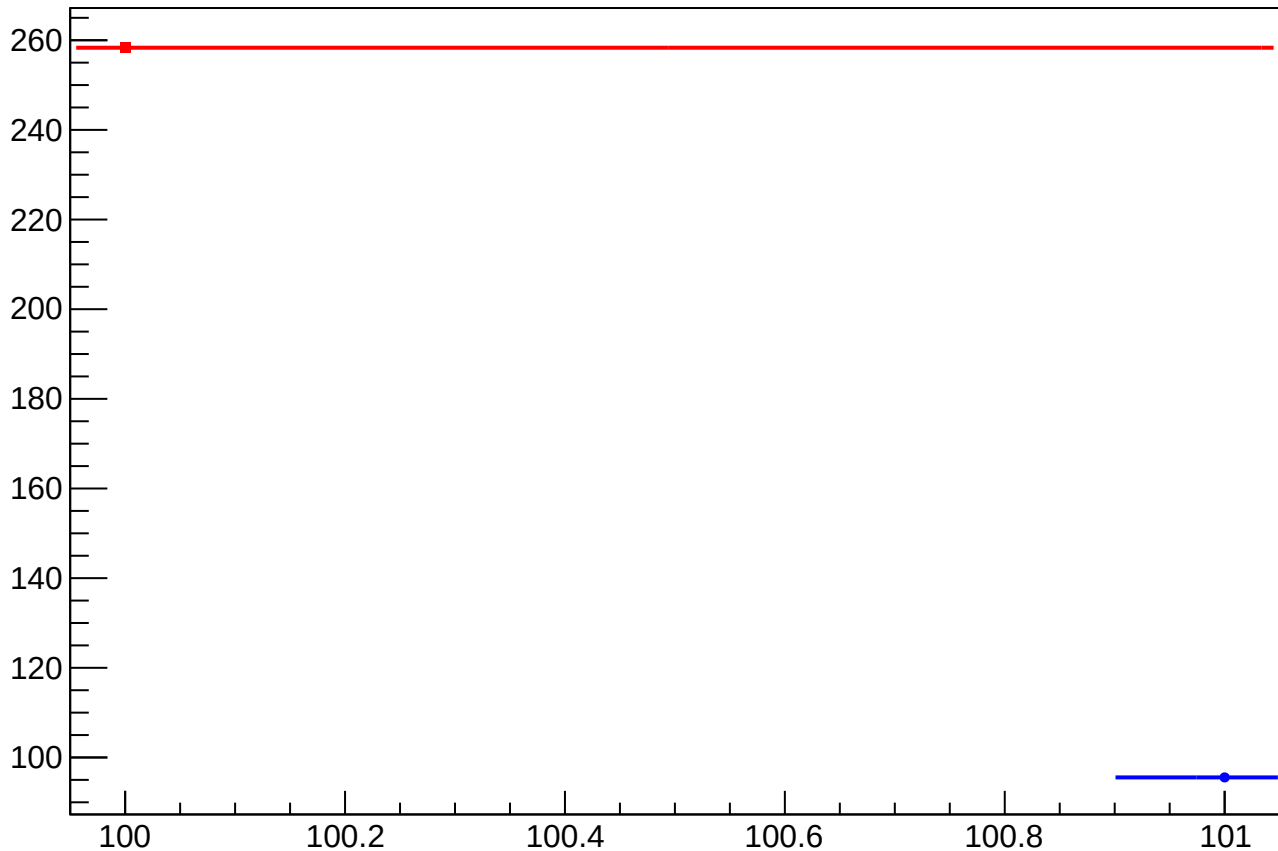
Right: 313.197+/-121.498  $\chi^2/\text{NDF}$ : 0.2/1

In: 320.427+/-122.478  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 313.197+/-121.498  $\chi^2/\text{NDF}$ : 0.2/1

# dit\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 95.551 $\pm$ 0.087  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 258.330 $\pm$ 0.680  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

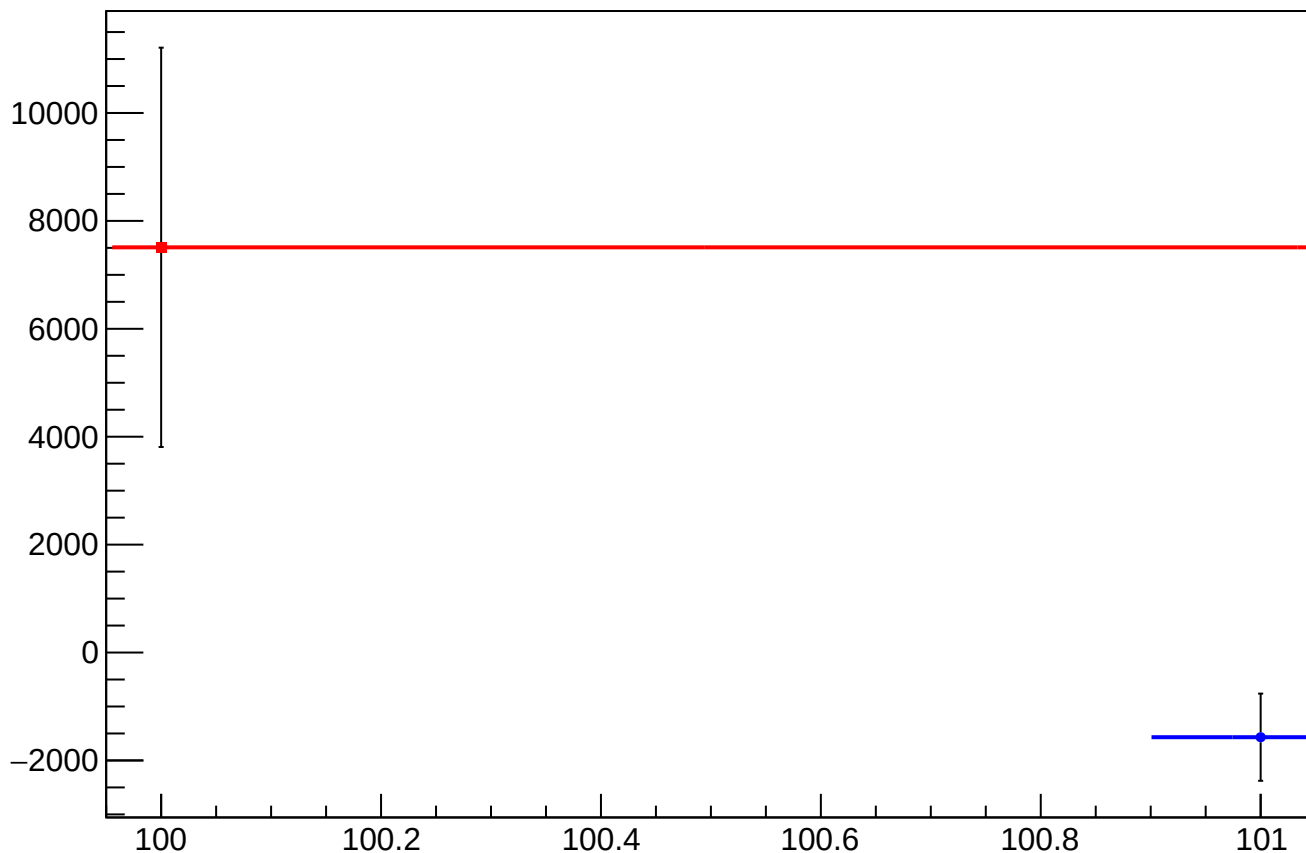
Right: 98.146 $\pm$ 0.086  $\chi^2$ /NDF: 56327.8/1

In: 95.551 $\pm$ 0.087  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 98.146 $\pm$ 0.086  $\chi^2$ /NDF: 56327.8/1

asym\_sam\_37\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1569.173 $\pm$ 807.955  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7509.923 $\pm$ 3700.569  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

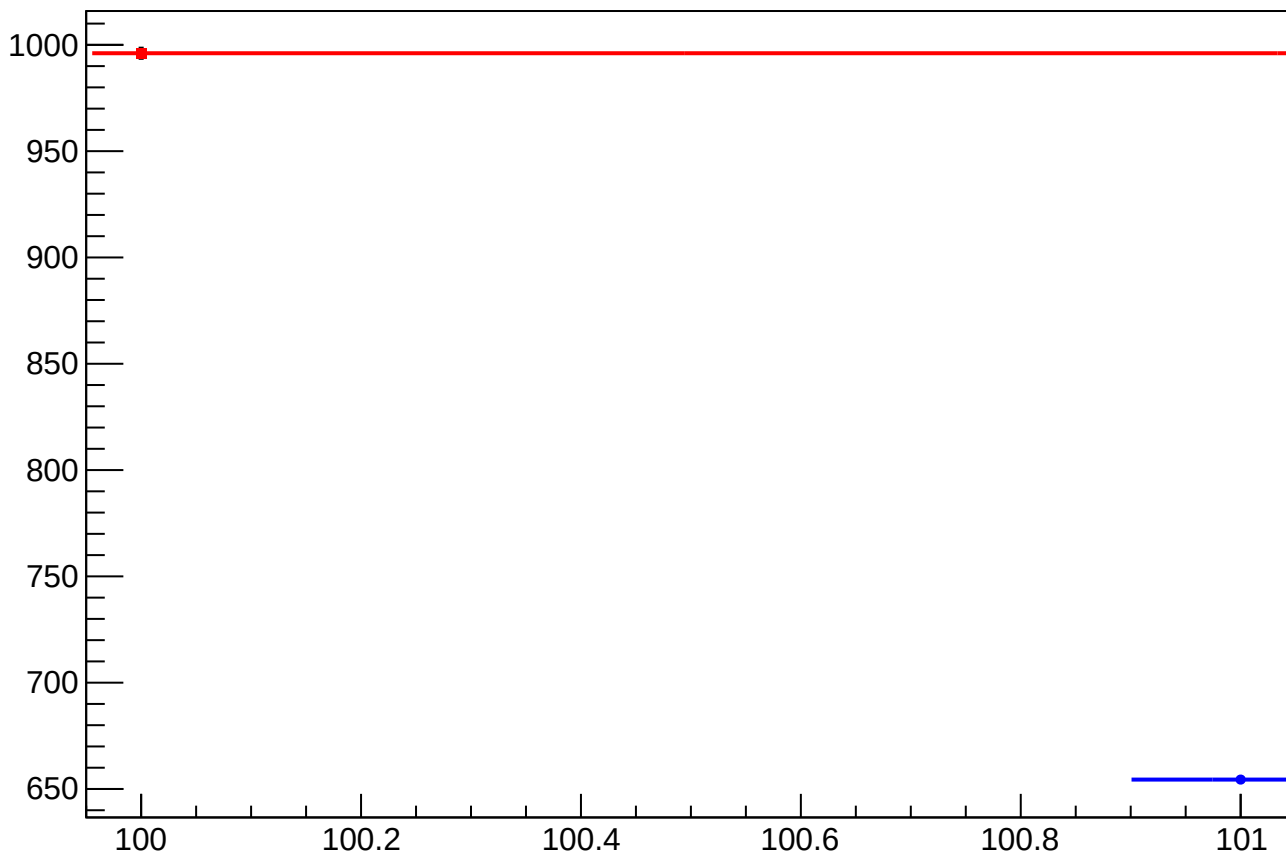
Right: -1156.072 $\pm$ 789.360  $\chi^2$ /NDF: 5.7/1

In: -1569.173 $\pm$ 807.955  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -1156.072 $\pm$ 789.360  $\chi^2$ /NDF: 5.7/1

asym\_sam\_37\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 654.418+/-0.571  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 996.059+/-2.617  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

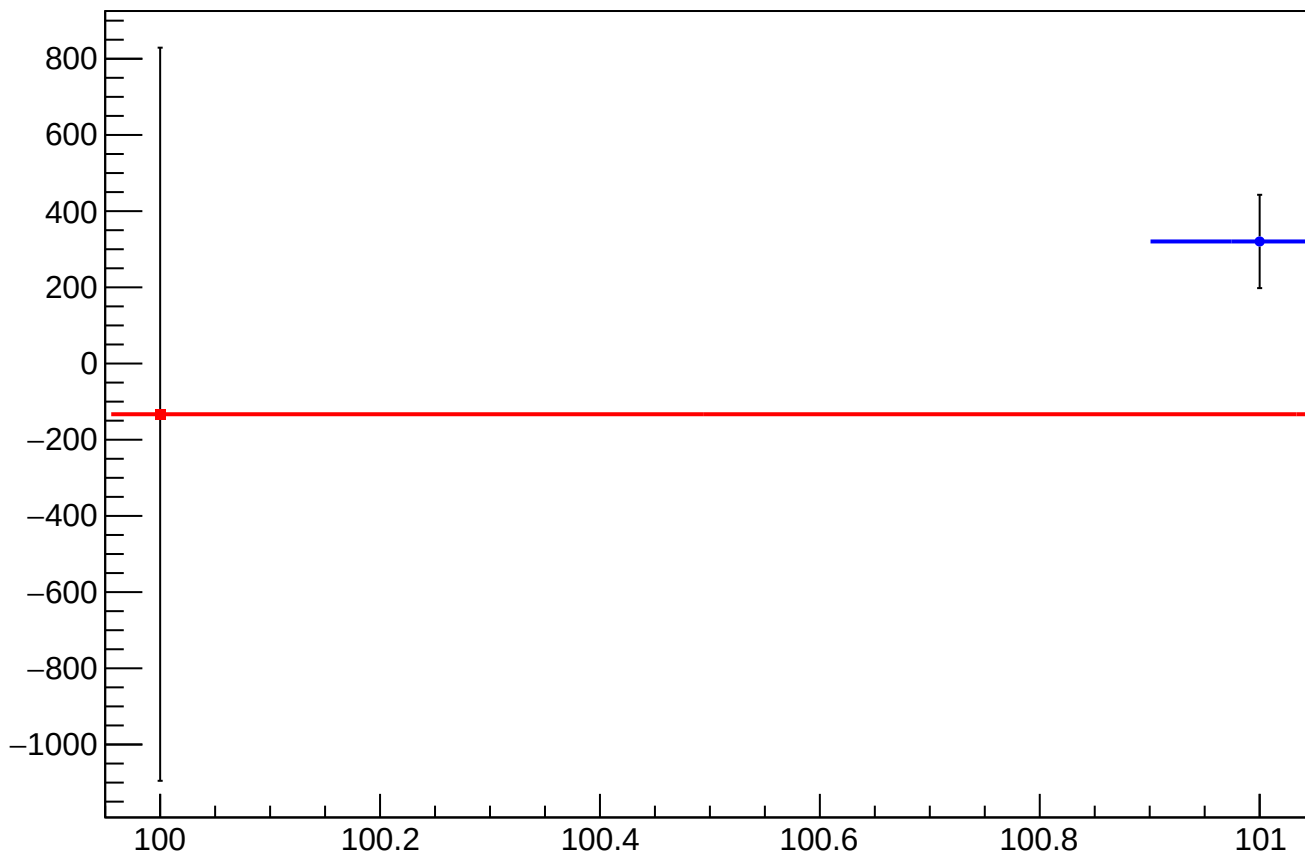
Right: 669.963+/-0.558  $\chi^2/\text{NDF}$ : 16270.8/1

In: 654.418+/-0.571  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 669.963+/-0.558  $\chi^2/\text{NDF}$ : 16270.8/1

eigen\_dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 320.435+/-122.479  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -133.085+/-962.196  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

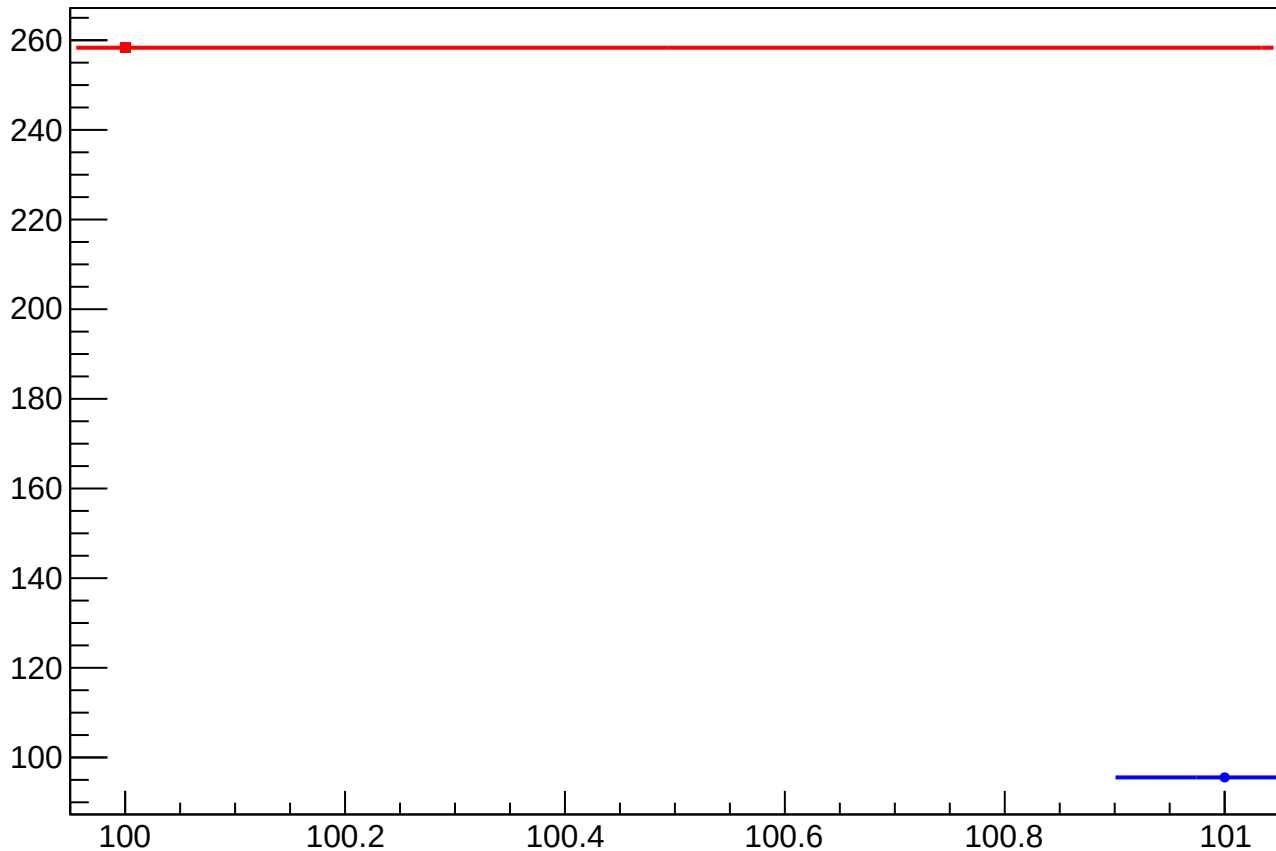
Right: 313.204+/-121.499  $\chi^2/\text{NDF}$ : 0.2/1

In: 320.435+/-122.479  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 313.204+/-121.499  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_dit\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 95.551+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 258.331+/-0.680  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 98.147+/-0.086  $\chi^2/\text{NDF}$ : 56327.4/1

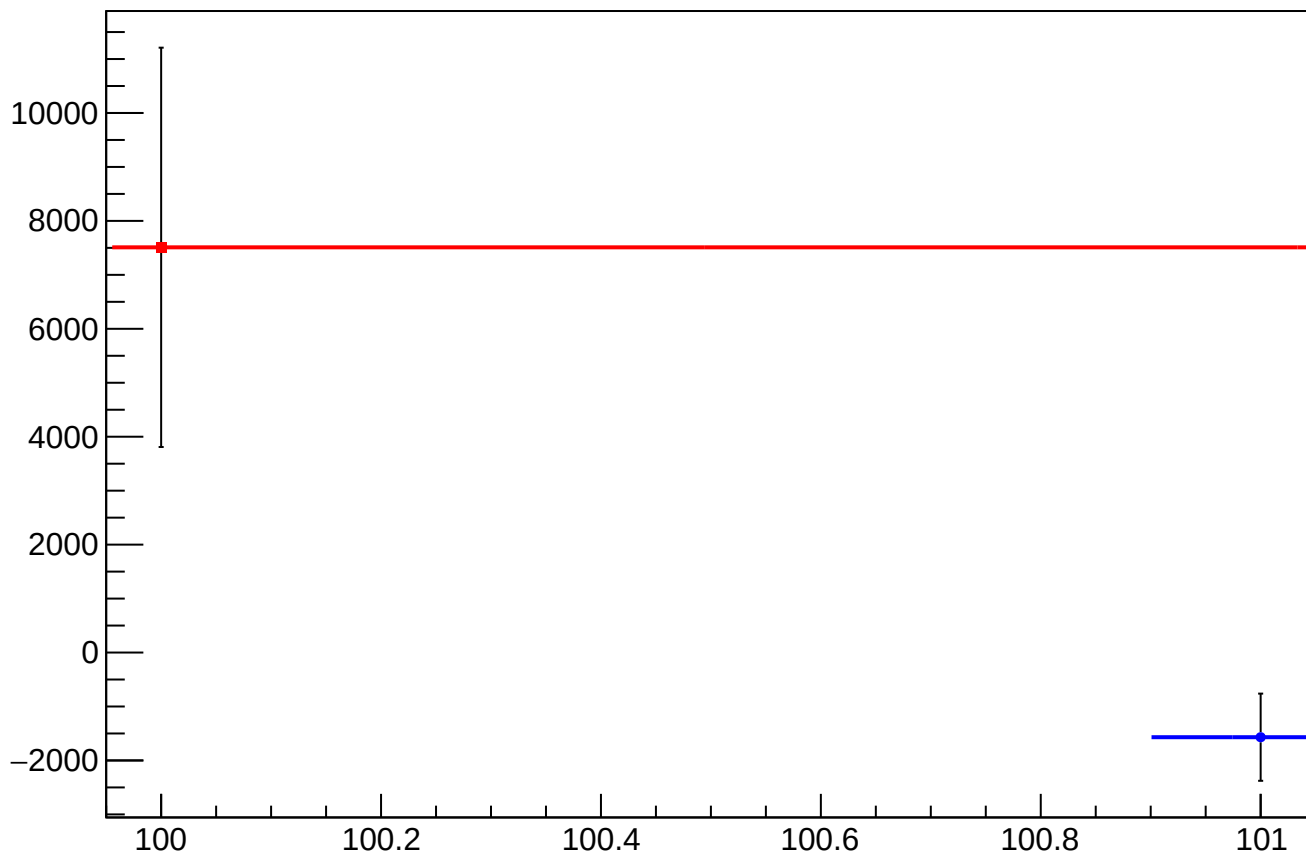
In: 95.551+/-0.087  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 98.147+/-0.086  $\chi^2/\text{NDF}$ : 56327.4/1



asym\_sam\_37\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1569.166 $\pm$ 807.951  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 7509.889 $\pm$ 3700.552  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

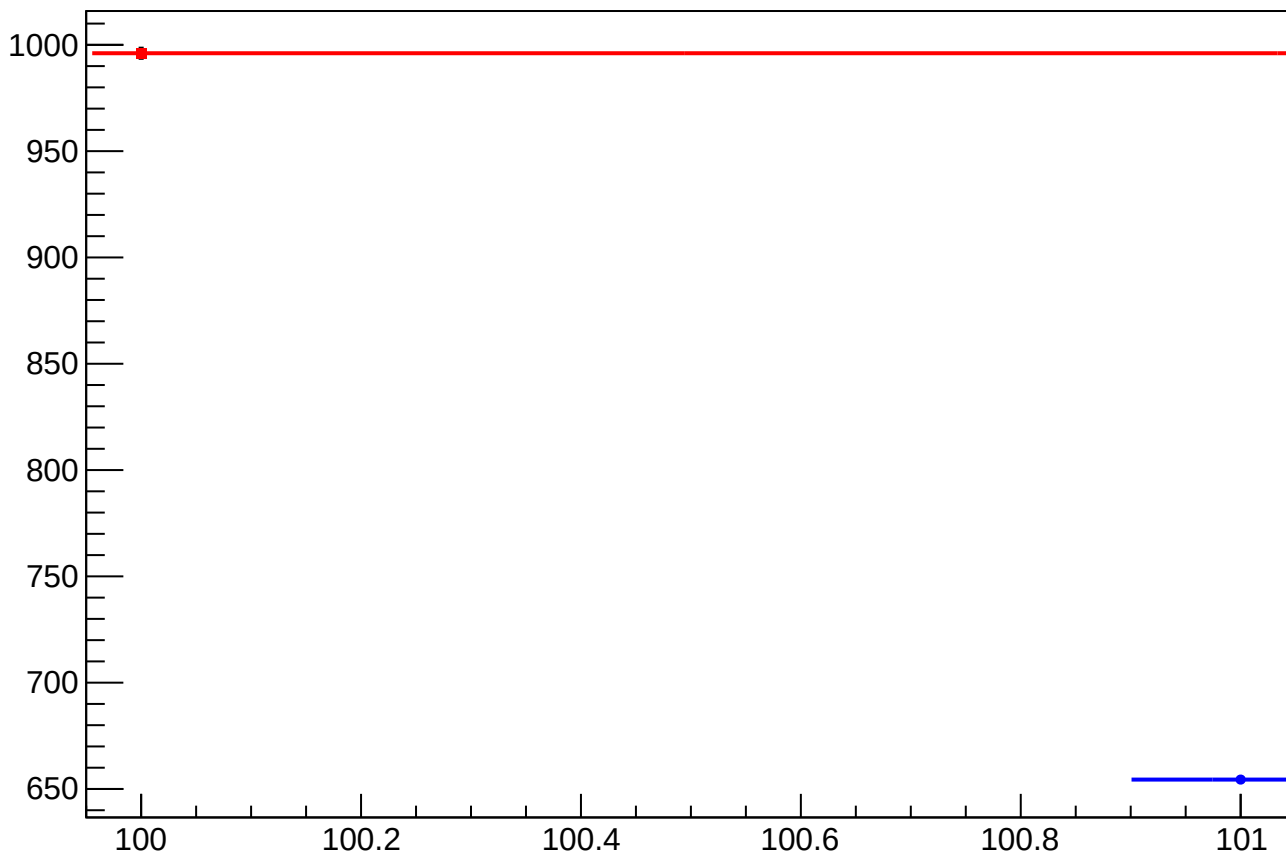
Right: -1156.067 $\pm$ 789.356  $\chi^2$ /NDF: 5.7/1

In: -1569.166 $\pm$ 807.951  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -1156.067 $\pm$ 789.356  $\chi^2$ /NDF: 5.7/1

asym\_sam\_37\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 654.415+/-0.571  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 996.054+/-2.617  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

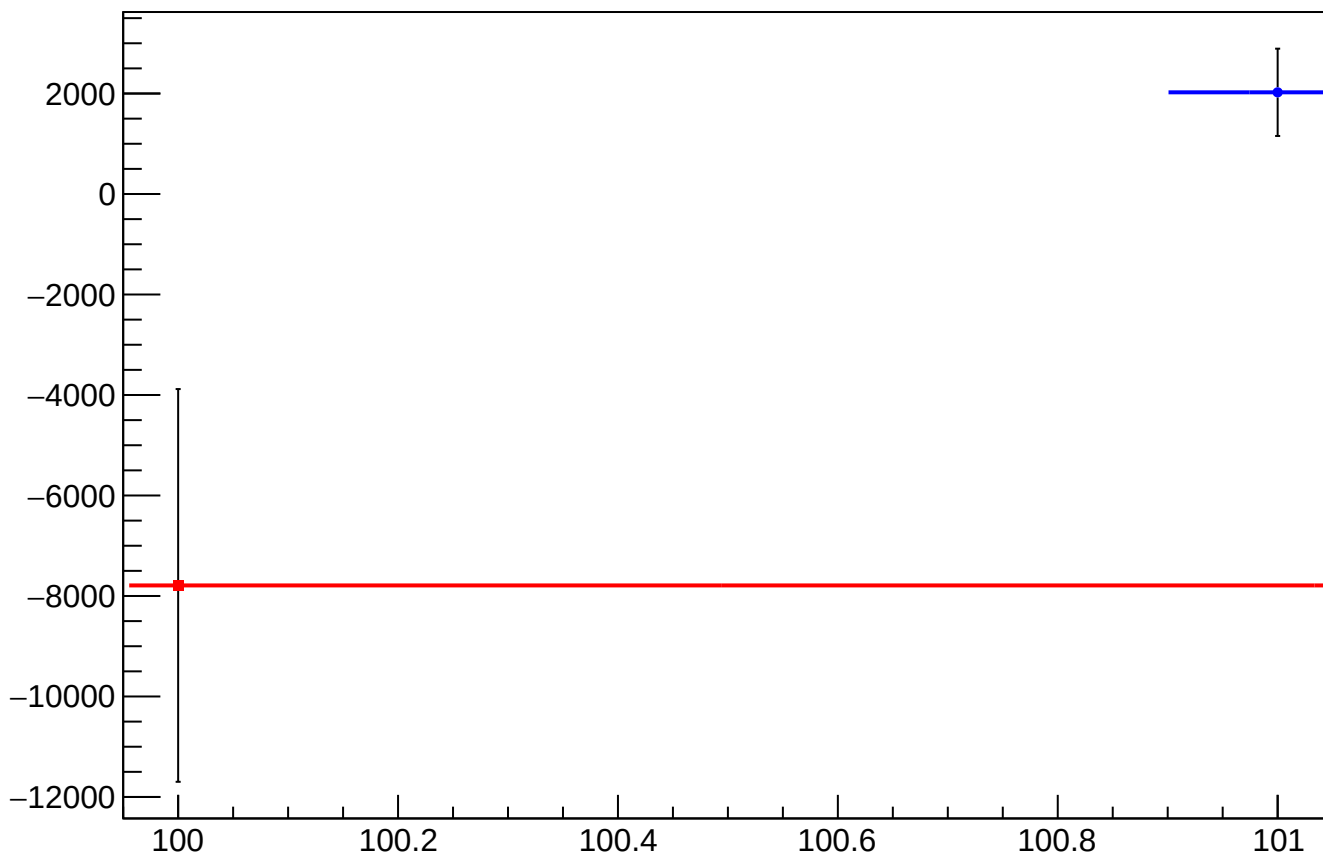
Right: 669.960+/-0.558  $\chi^2/\text{NDF}$ : 16270.8/1

In: 654.415+/-0.571  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 669.960+/-0.558  $\chi^2/\text{NDF}$ : 16270.8/1

asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 2023.676+/-868.788  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -7789.864+/-3908.170  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

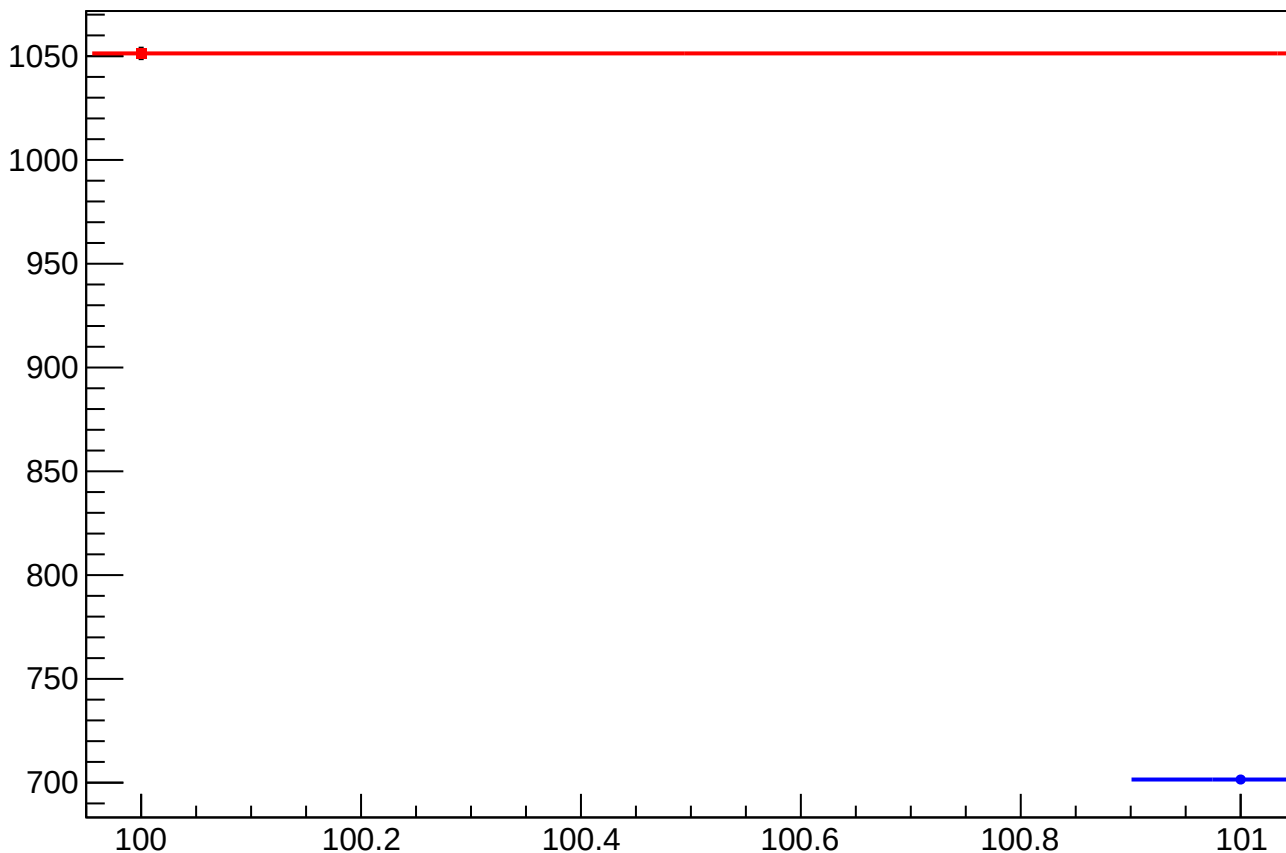
Right: 1561.553+/-848.085  $\chi^2$ /NDF: 6.0/1

In: 2023.676+/-868.788  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 1561.553+/-848.085  $\chi^2$ /NDF: 6.0/1

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 701.518 $\pm$ 0.614  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1051.325 $\pm$ 2.763  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

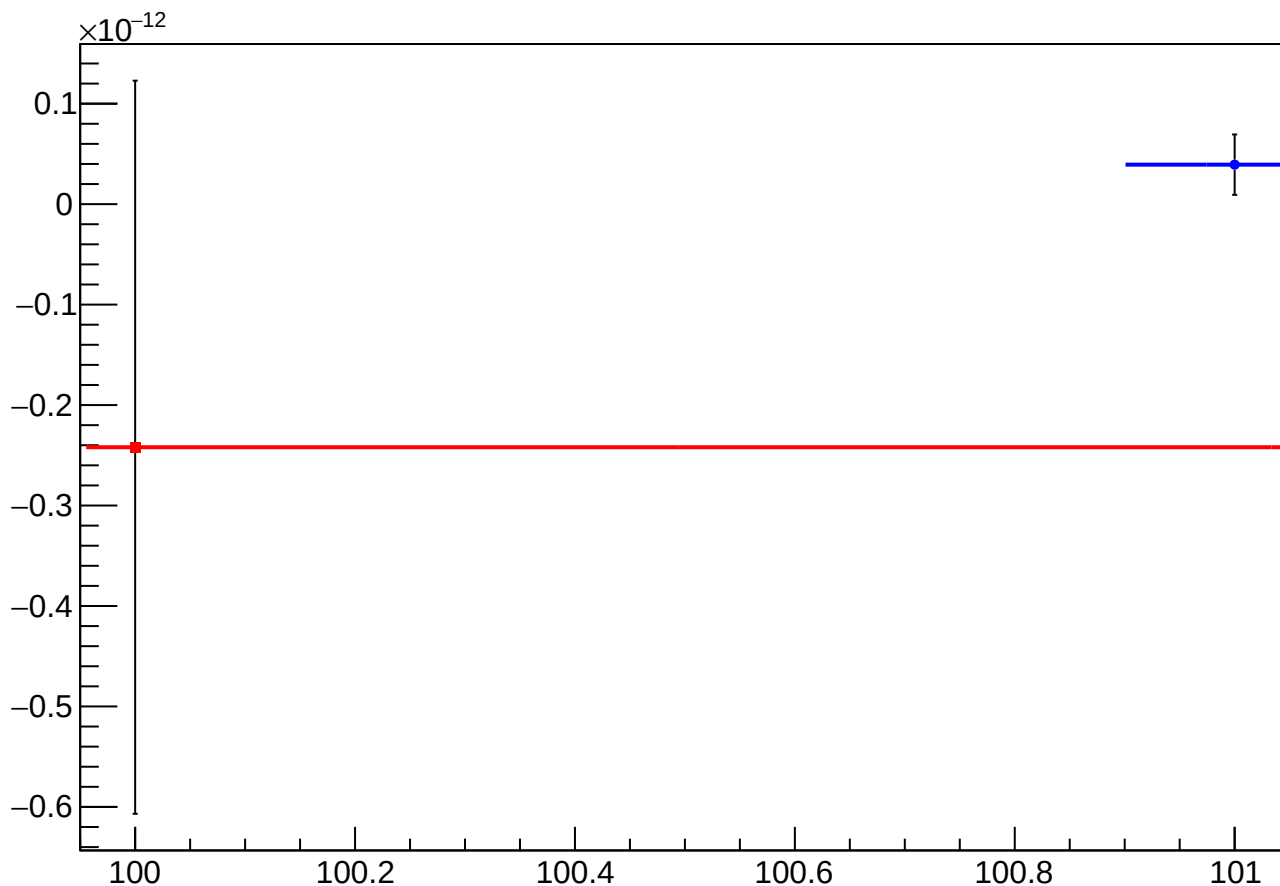
Right: 717.990 $\pm$ 0.600  $\chi^2$ /NDF: 15268.4/1

In: 701.518 $\pm$ 0.614  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 717.990 $\pm$ 0.600  $\chi^2$ /NDF: 15268.4/1

asym\_sam\_37\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

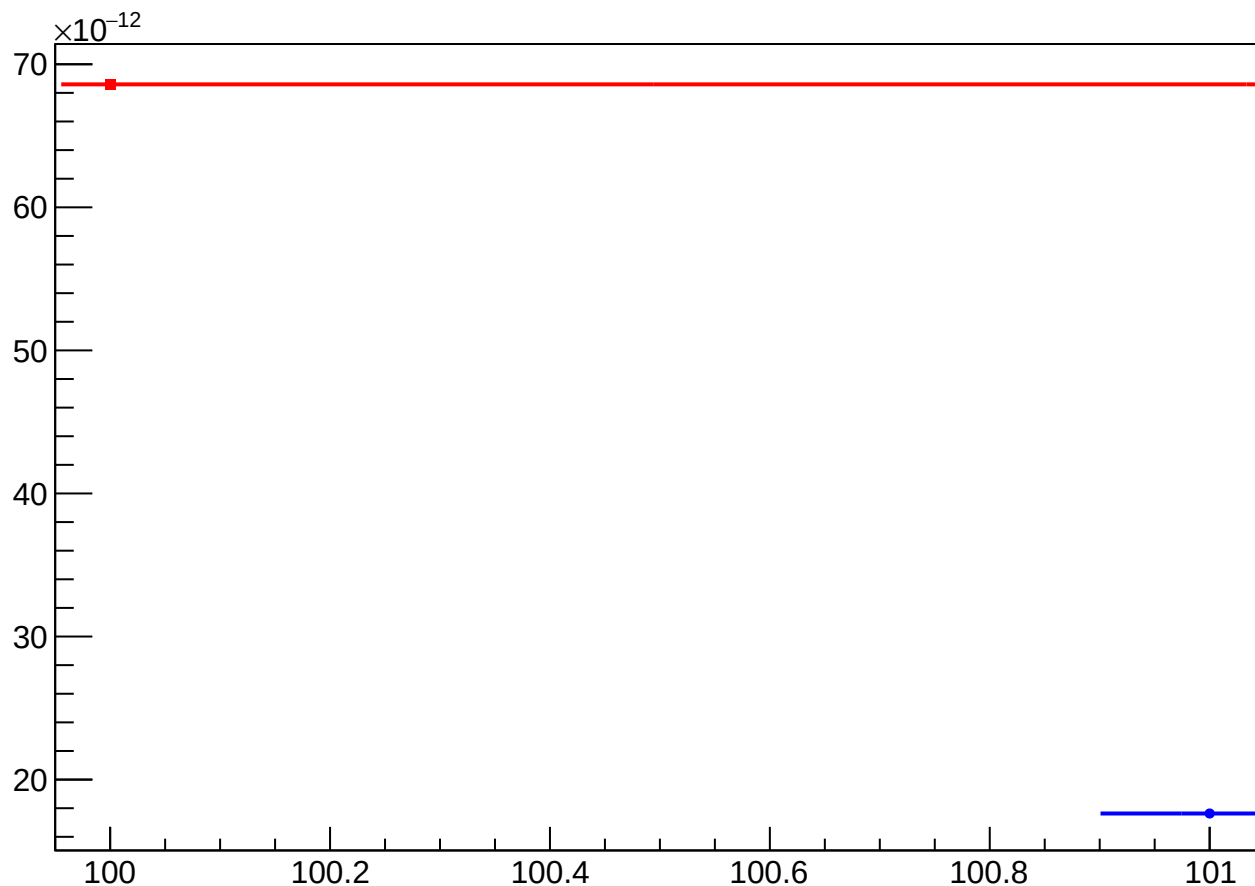
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_sam\_37\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

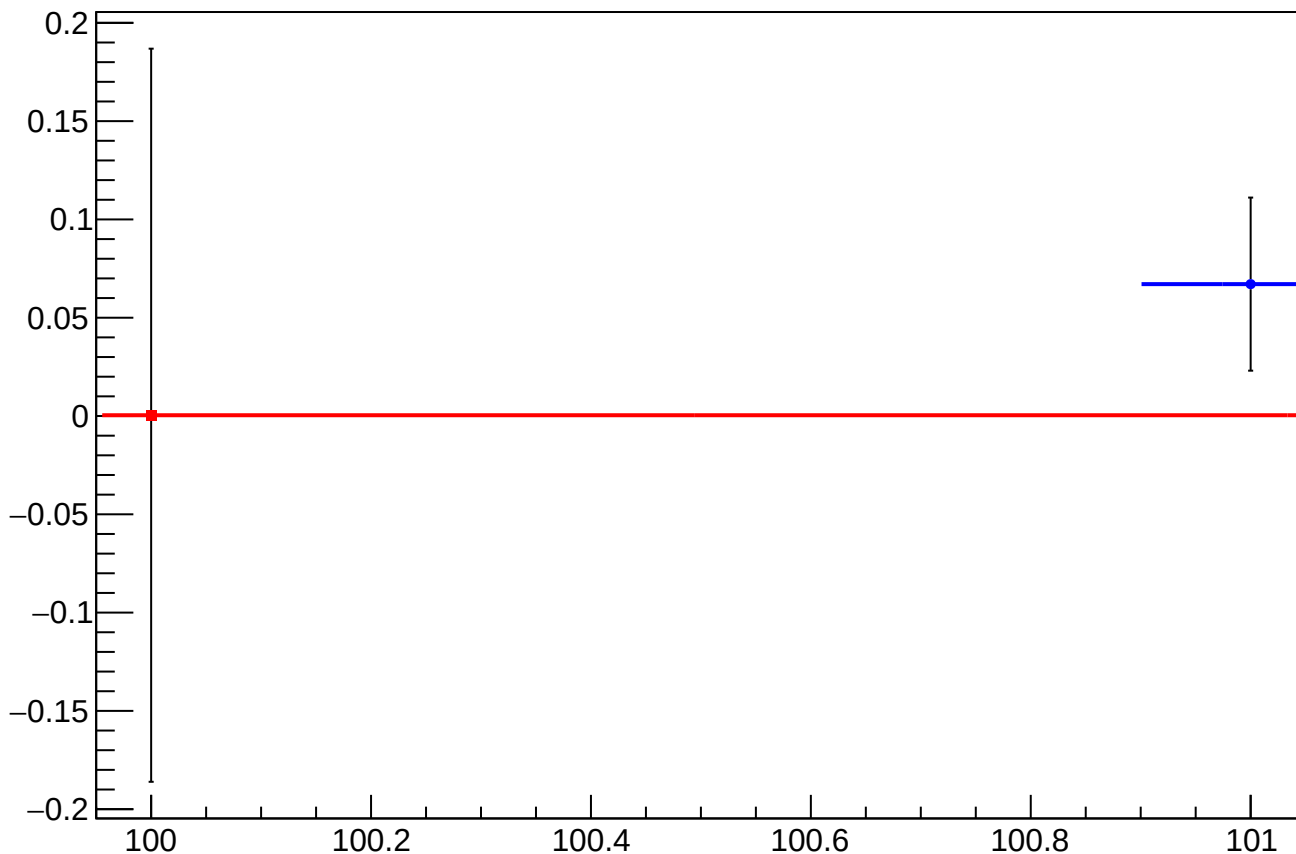
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38755.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38755.5/1

asym\_sam\_37\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.067 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

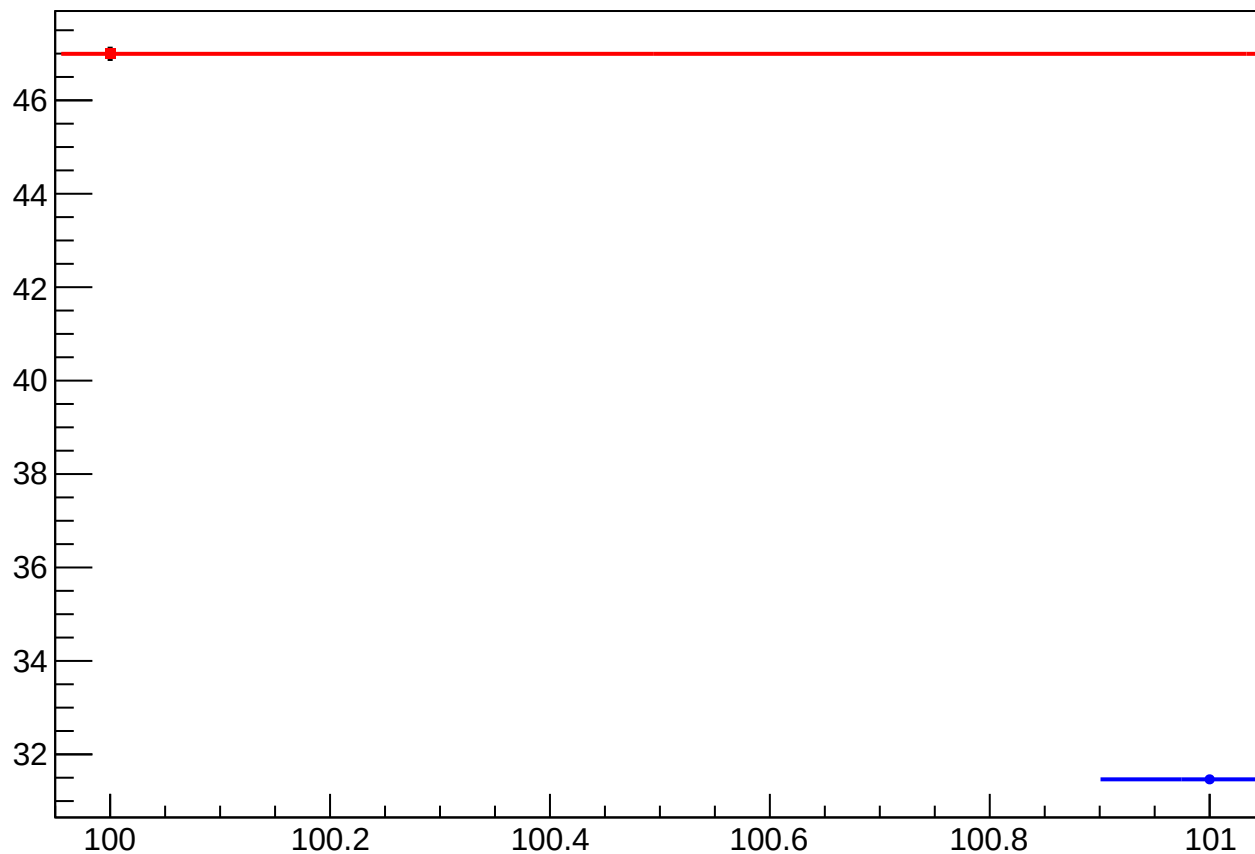
Right: 0.064 $\pm$ 0.043  $\chi^2$ /NDF: 0.1/1

In: 0.067 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.064 $\pm$ 0.043  $\chi^2$ /NDF: 0.1/1

asym\_sam\_37\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 31.465 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.995 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 32.285 $\pm$ 0.030  $\chi^2$ /NDF: 13140.6/1

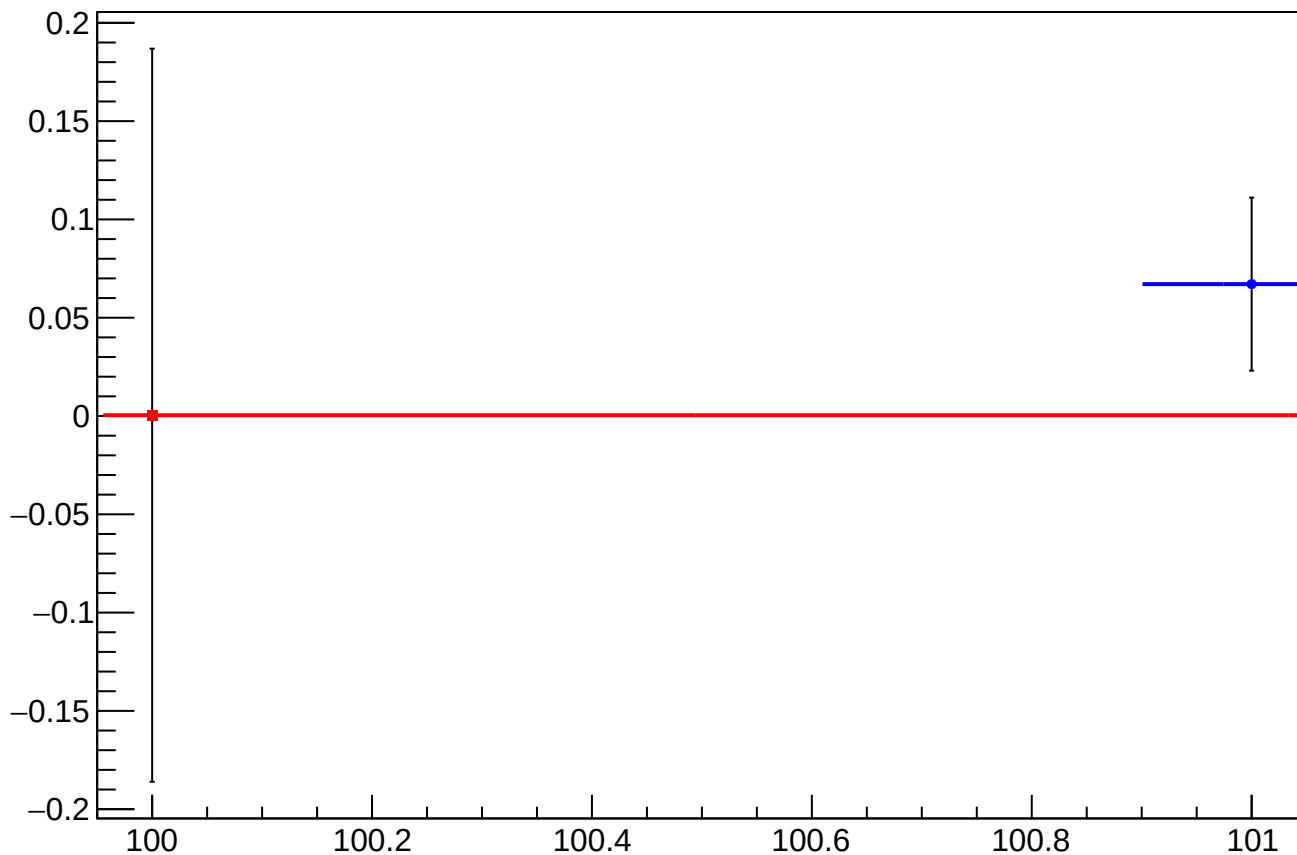
In: 31.465 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.285 $\pm$ 0.030  $\chi^2$ /NDF: 13140.6/1



asym\_sam\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.067 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

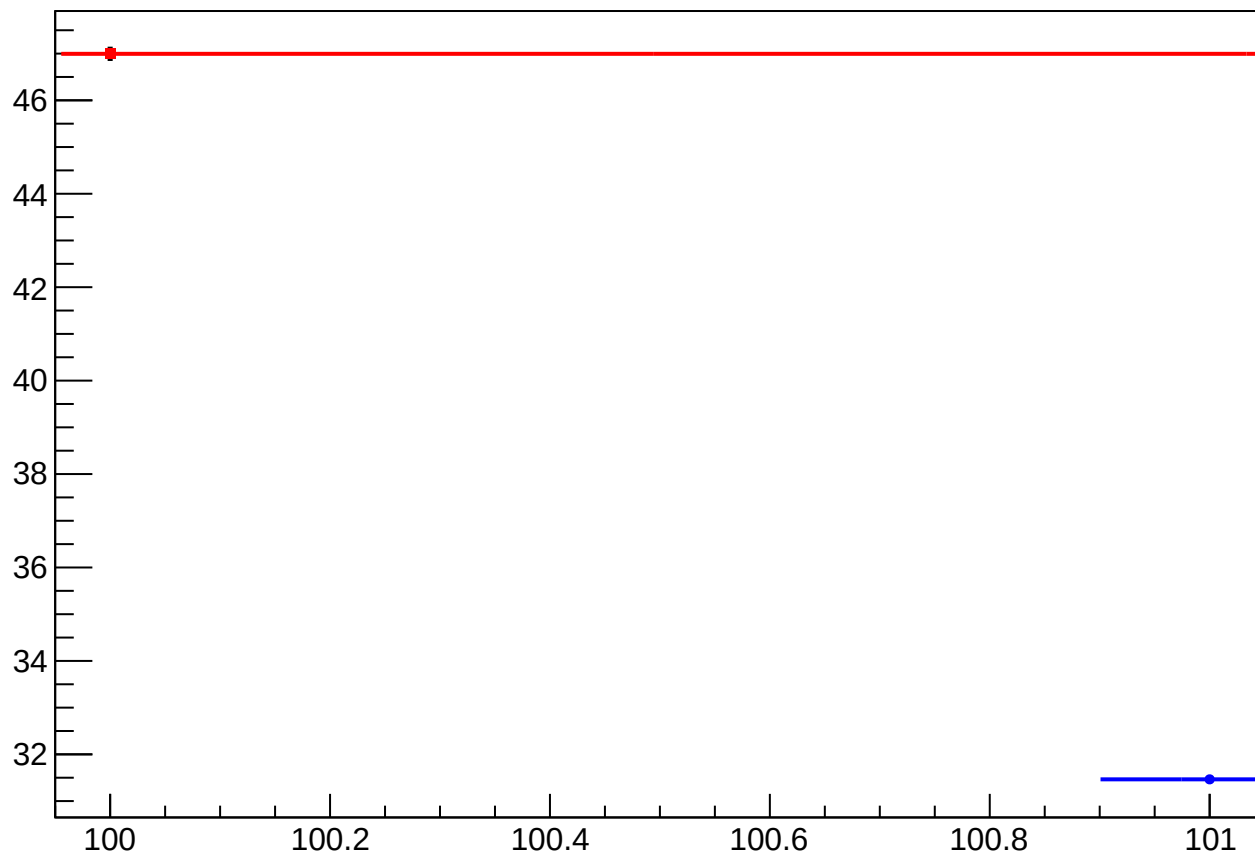
Right: 0.064 $\pm$ 0.043  $\chi^2$ /NDF: 0.1/1

In: 0.067 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.064 $\pm$ 0.043  $\chi^2$ /NDF: 0.1/1

asym\_sam\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 31.465+/-0.031  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.995+/-0.132  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

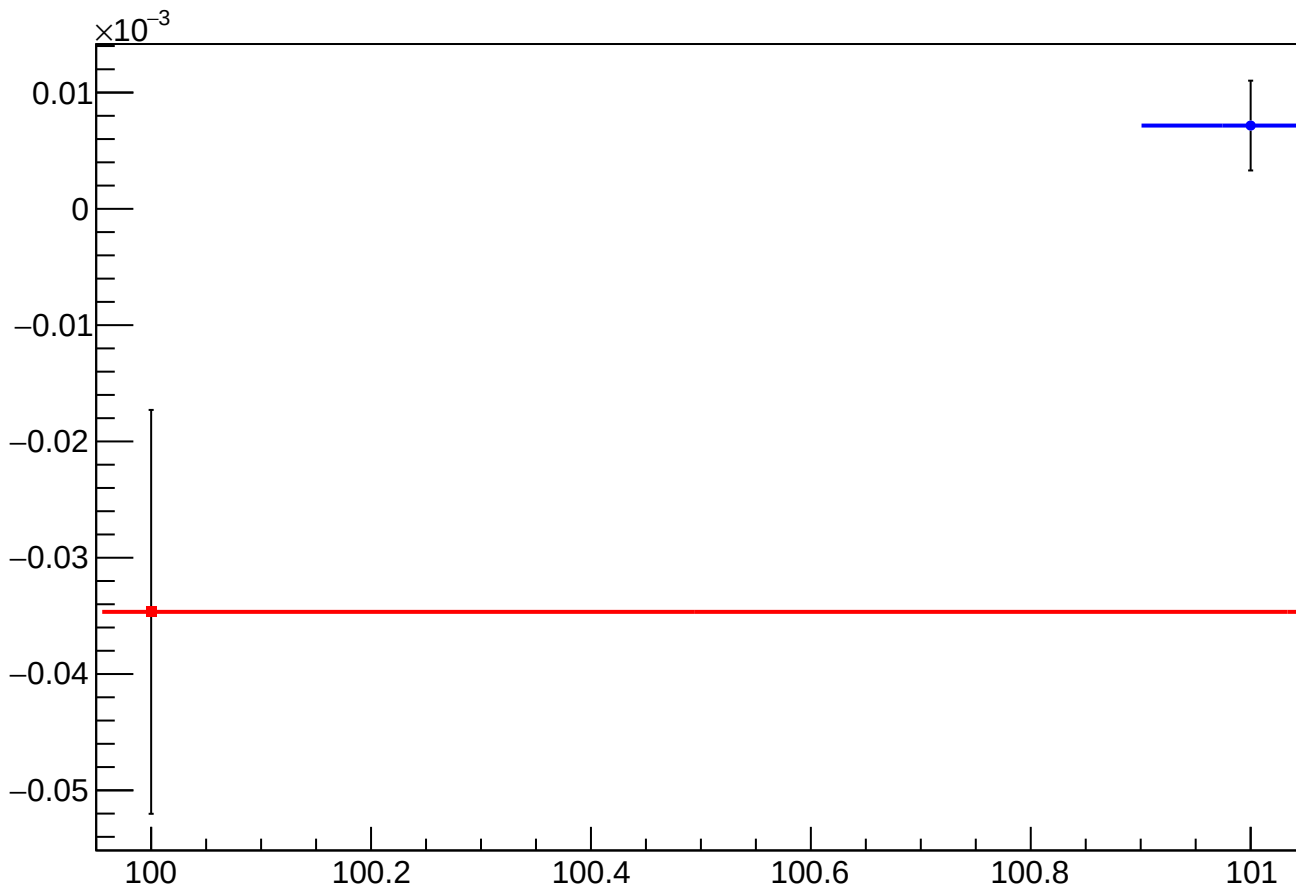
Right: 32.285+/-0.030  $\chi^2/\text{NDF}$ : 13140.6/1

In: 31.465+/-0.031  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.285+/-0.030  $\chi^2/\text{NDF}$ : 13140.6/1

asym\_sam\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

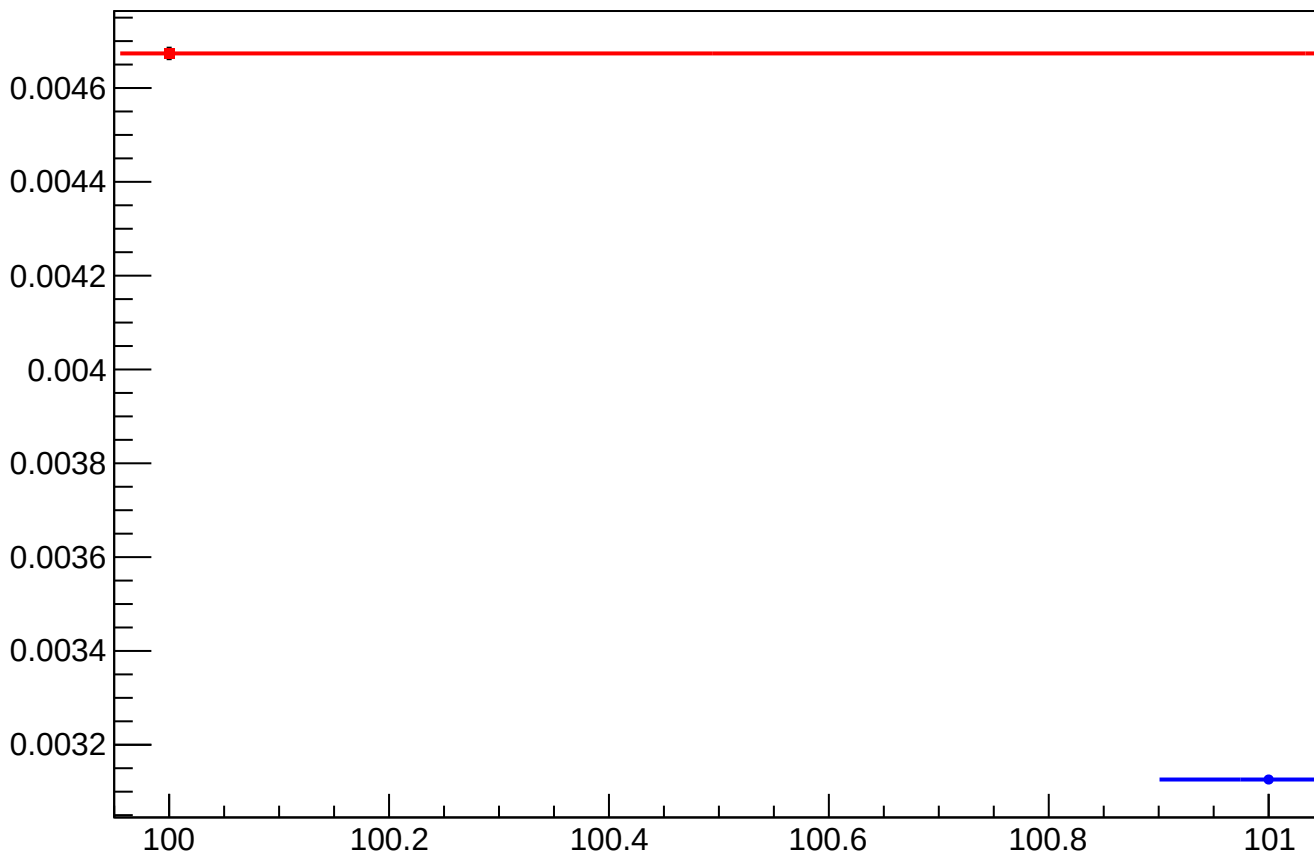
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.5/1

asym\_sam\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

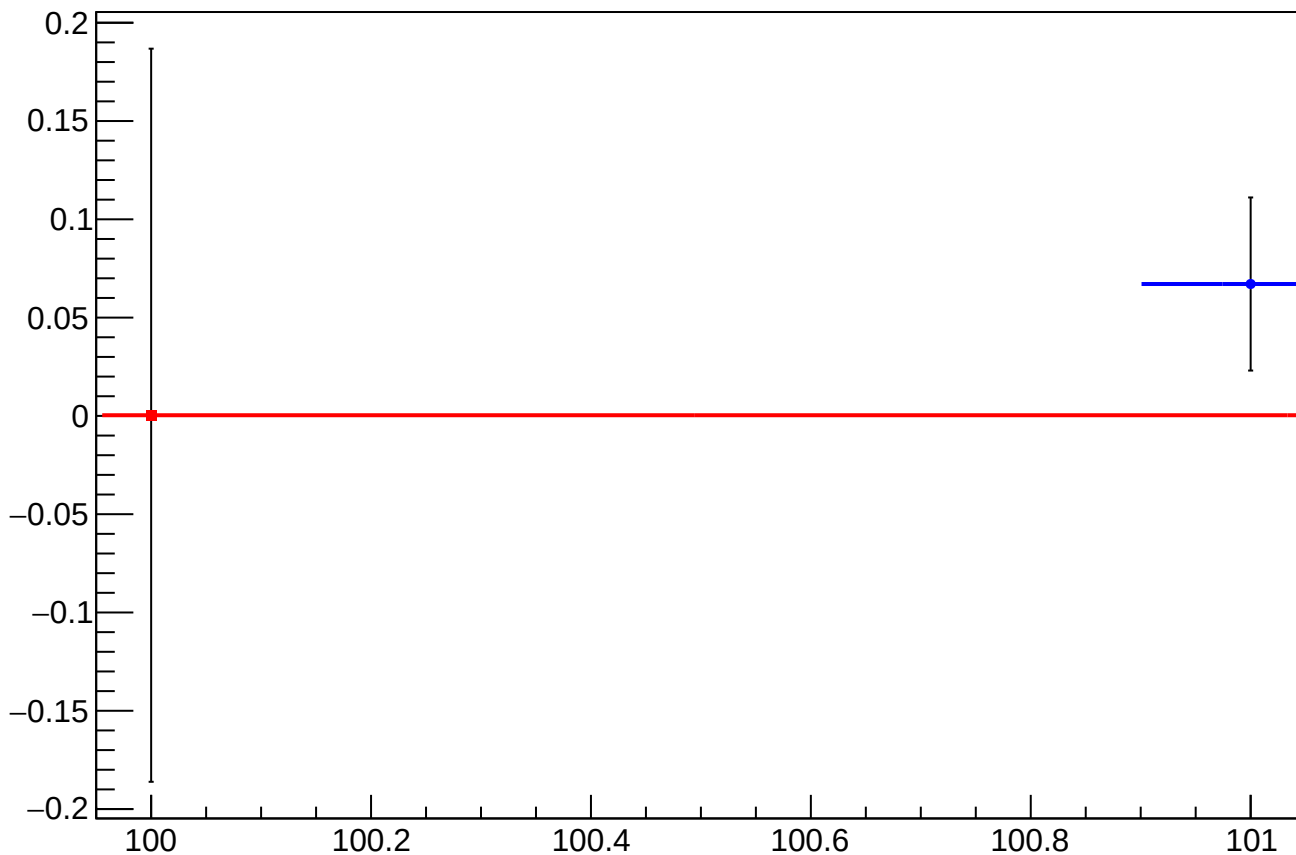
Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 15143.2/1

In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 15143.2/1

asym\_sam\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.067 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

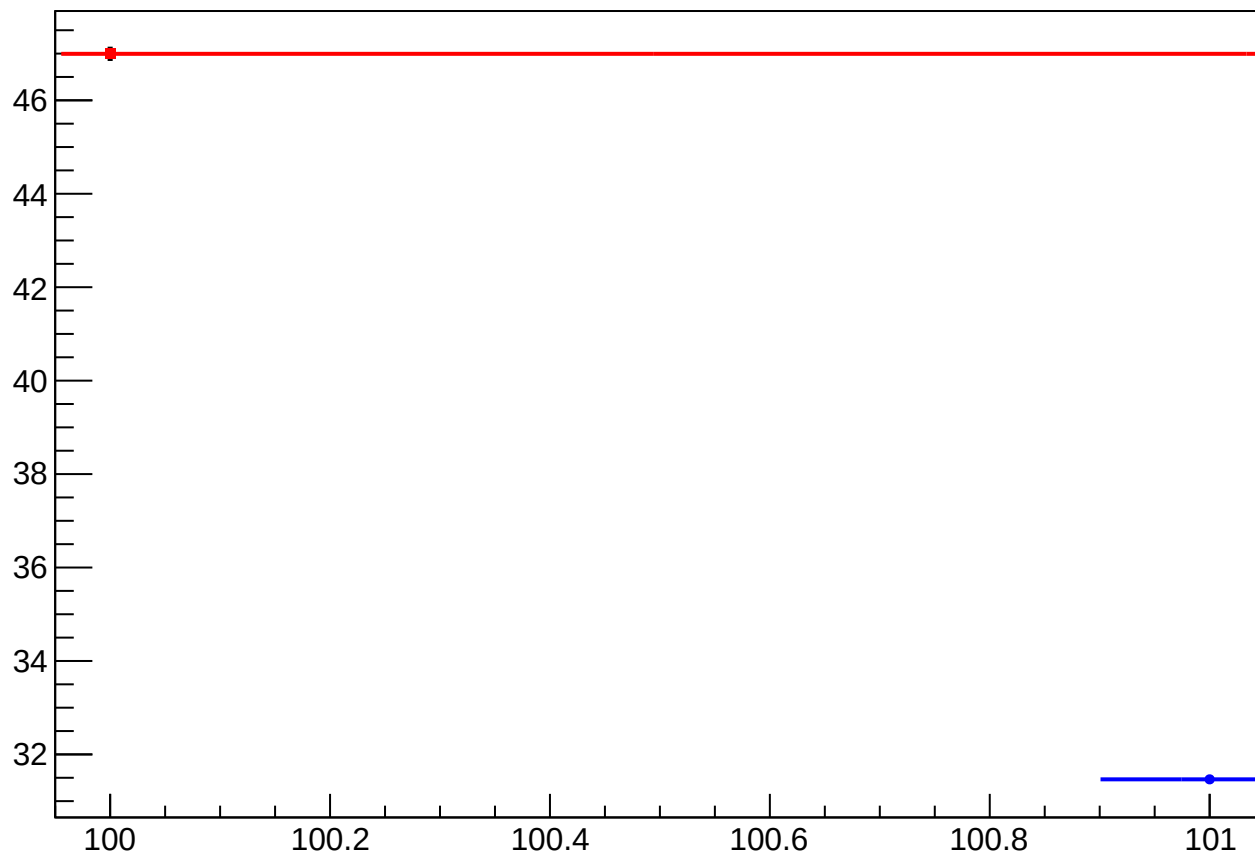
Right: 0.064 $\pm$ 0.043  $\chi^2$ /NDF: 0.1/1

In: 0.067 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.064 $\pm$ 0.043  $\chi^2$ /NDF: 0.1/1

asym\_sam\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 31.466 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.995 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

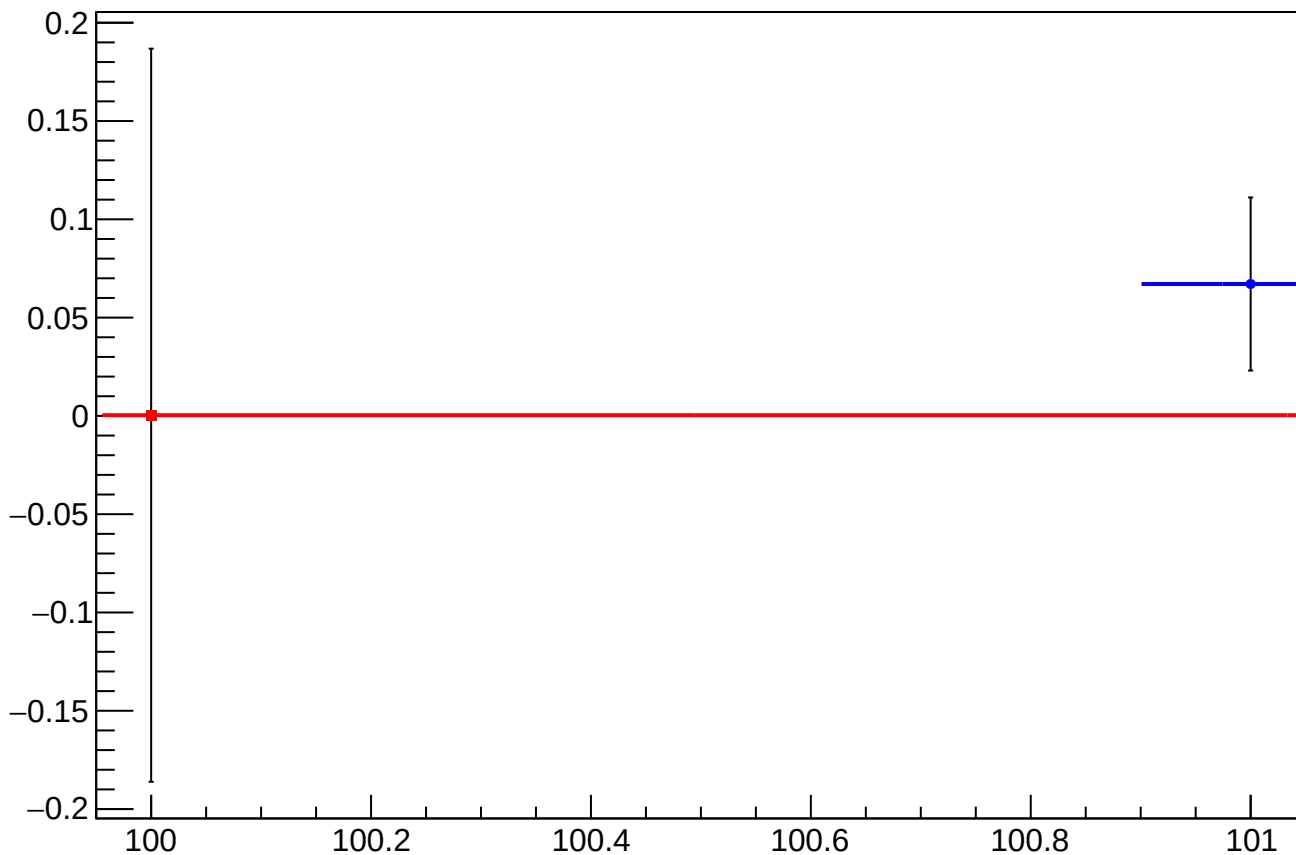
Right: 32.286 $\pm$ 0.030  $\chi^2$ /NDF: 13137.9/1

In: 31.466 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.286 $\pm$ 0.030  $\chi^2$ /NDF: 13137.9/1

asym\_sam\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.067 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.186  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

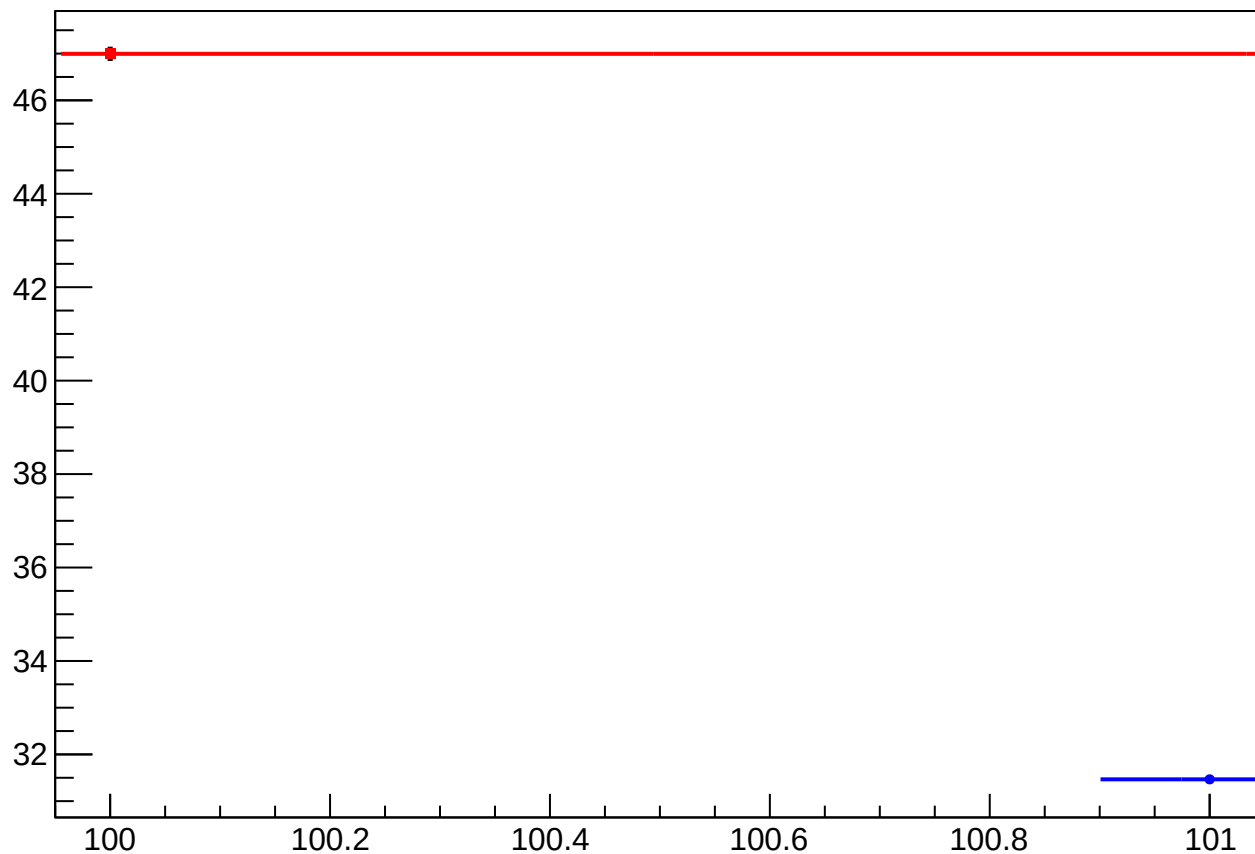
Right: 0.064 $\pm$ 0.043  $\chi^2$ /NDF: 0.1/1

In: 0.067 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.064 $\pm$ 0.043  $\chi^2$ /NDF: 0.1/1

asym\_sam\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 31.466 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.995 $\pm$ 0.132  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 32.286 $\pm$ 0.030  $\chi^2$ /NDF: 13137.9/1

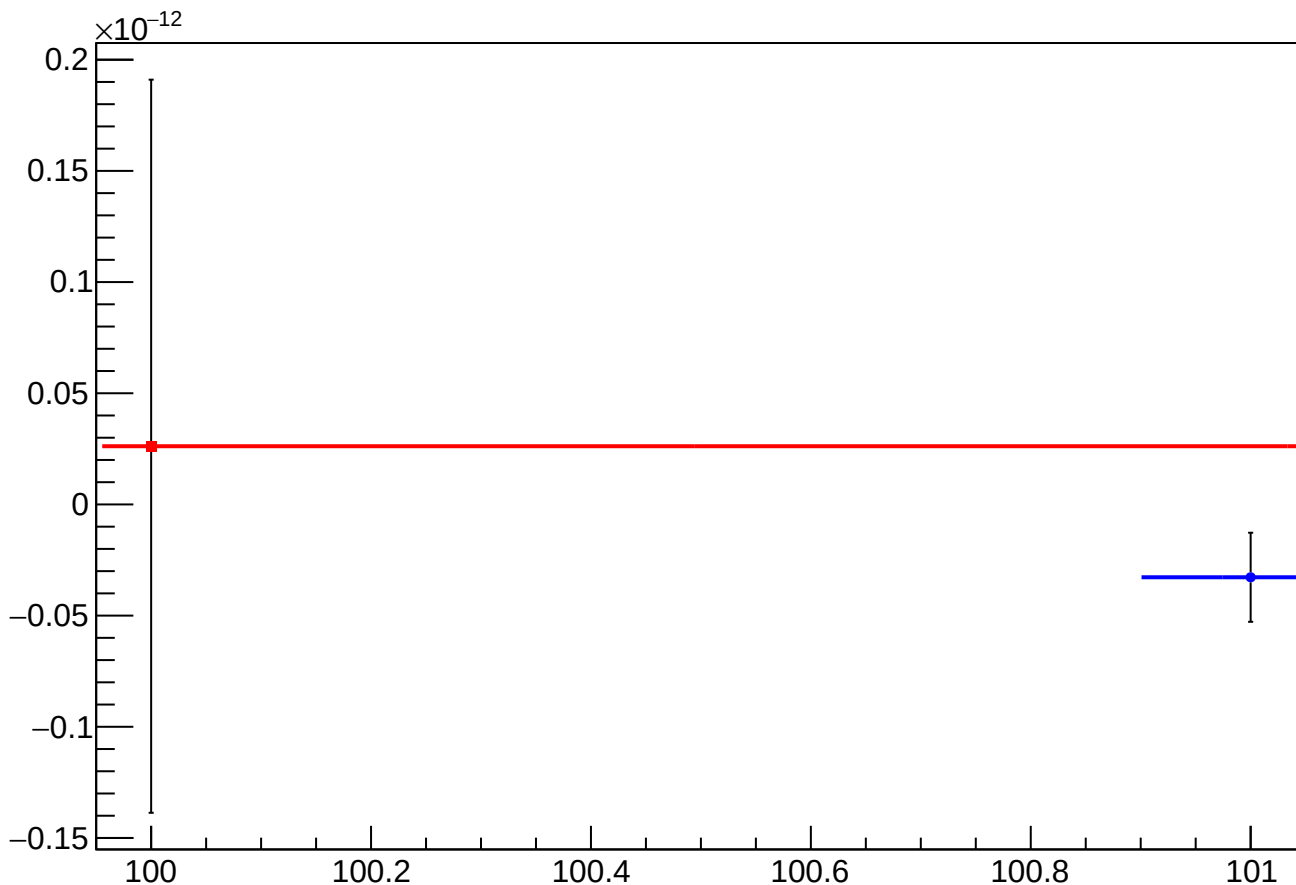
In: 31.466 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 32.286 $\pm$ 0.030  $\chi^2$ /NDF: 13137.9/1



asym\_sam\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

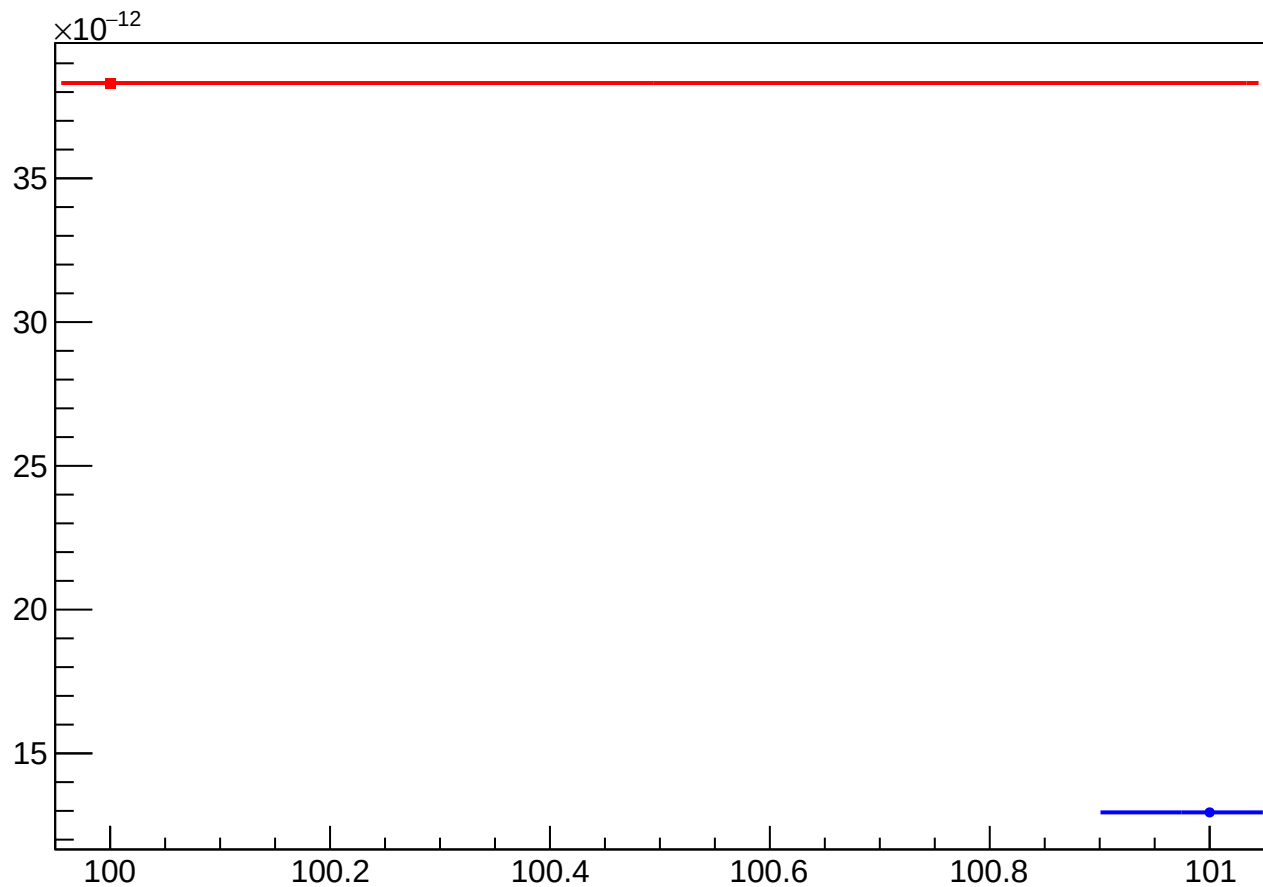
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

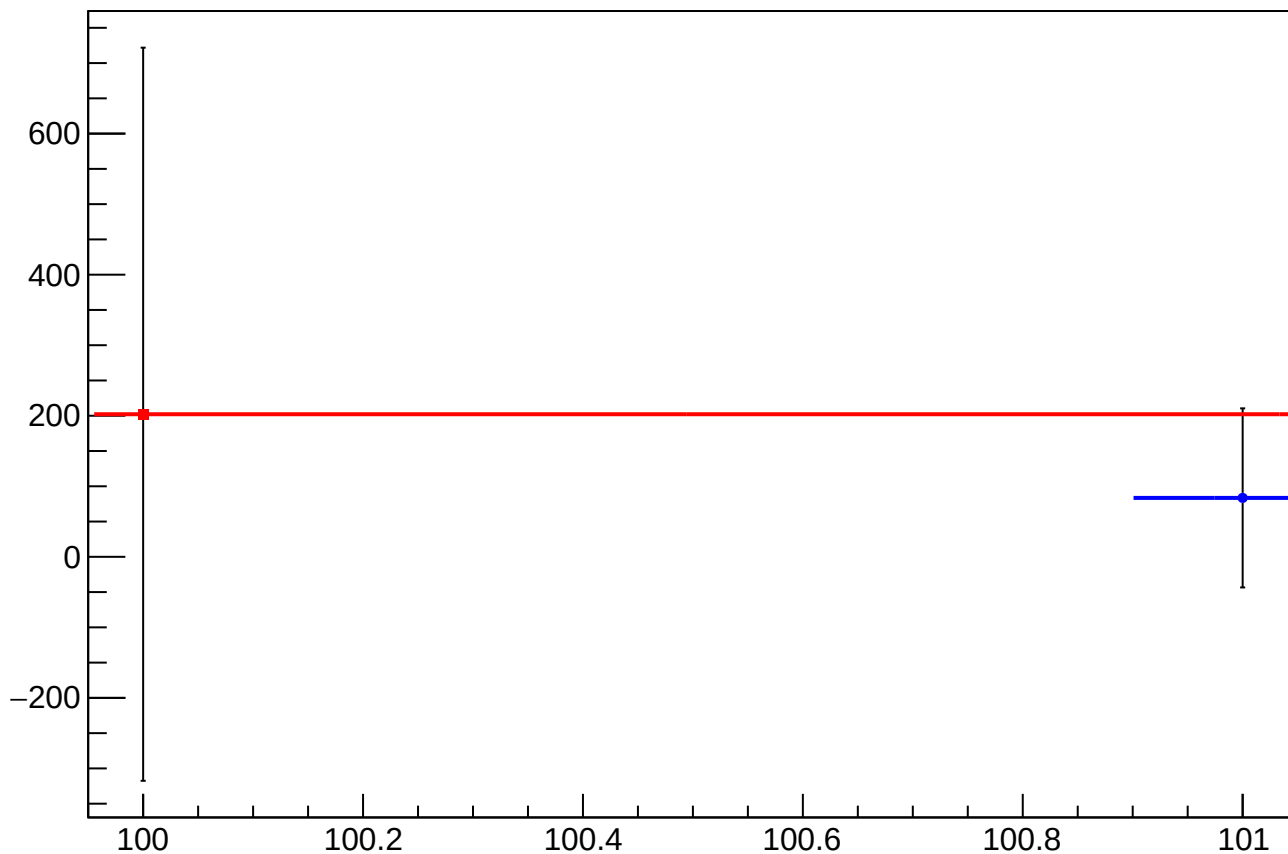
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 46665.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 46665.6/1

reg\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 83.524+/-126.946  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.145+/-519.702  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

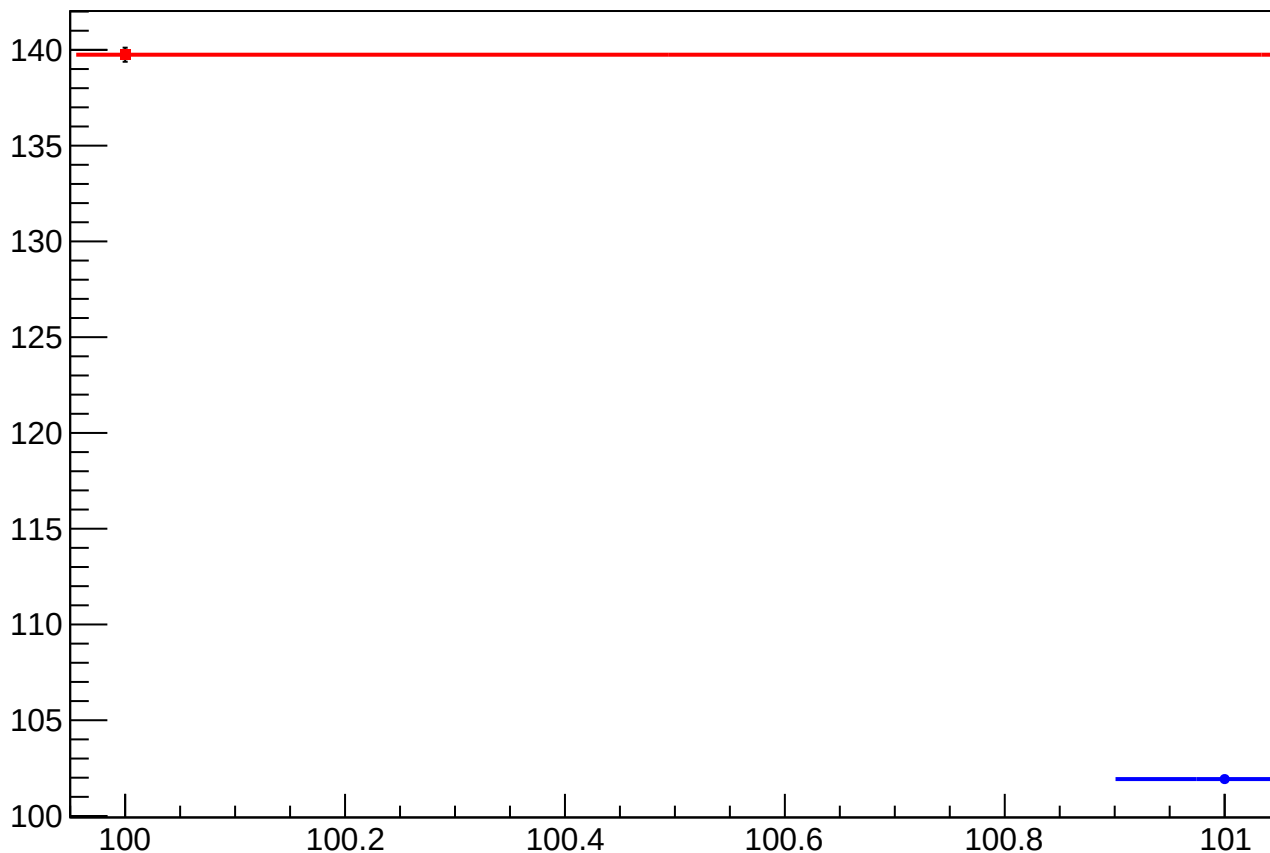
Right: 90.203+/-123.321  $\chi^2/\text{NDF}$ : 0.0/1

In: 83.524+/-126.946  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 90.203+/-123.321  $\chi^2/\text{NDF}$ : 0.0/1

# reg\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 101.928 $\pm$ 0.090  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 139.748 $\pm$ 0.367  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

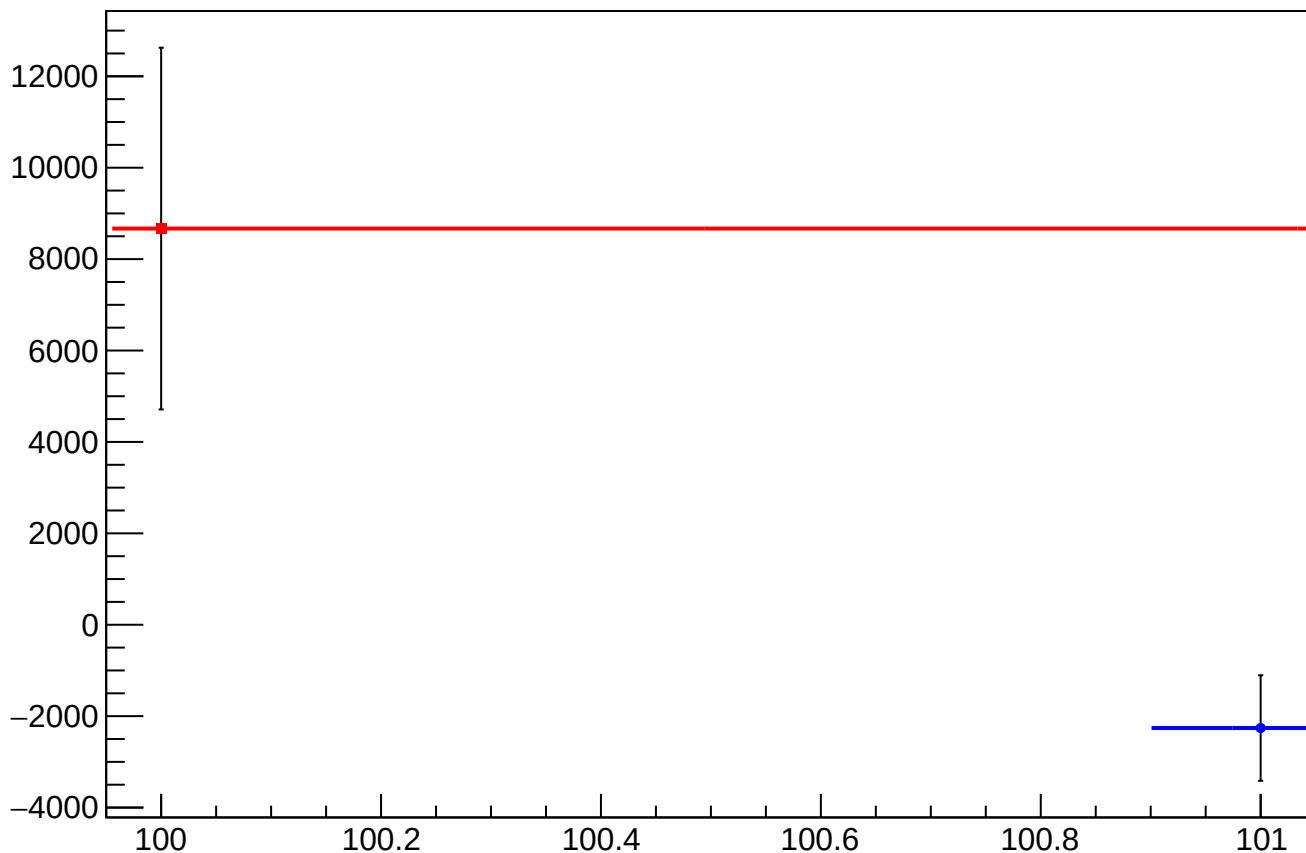
Right: 104.057 $\pm$ 0.087  $\chi^2$ /NDF: 9995.2/1

In: 101.928 $\pm$ 0.090  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 104.057 $\pm$ 0.087  $\chi^2$ /NDF: 9995.2/1

asym\_sam\_48\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -2259.668 $\pm$ 1154.706  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8668.606 $\pm$ 3957.927  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

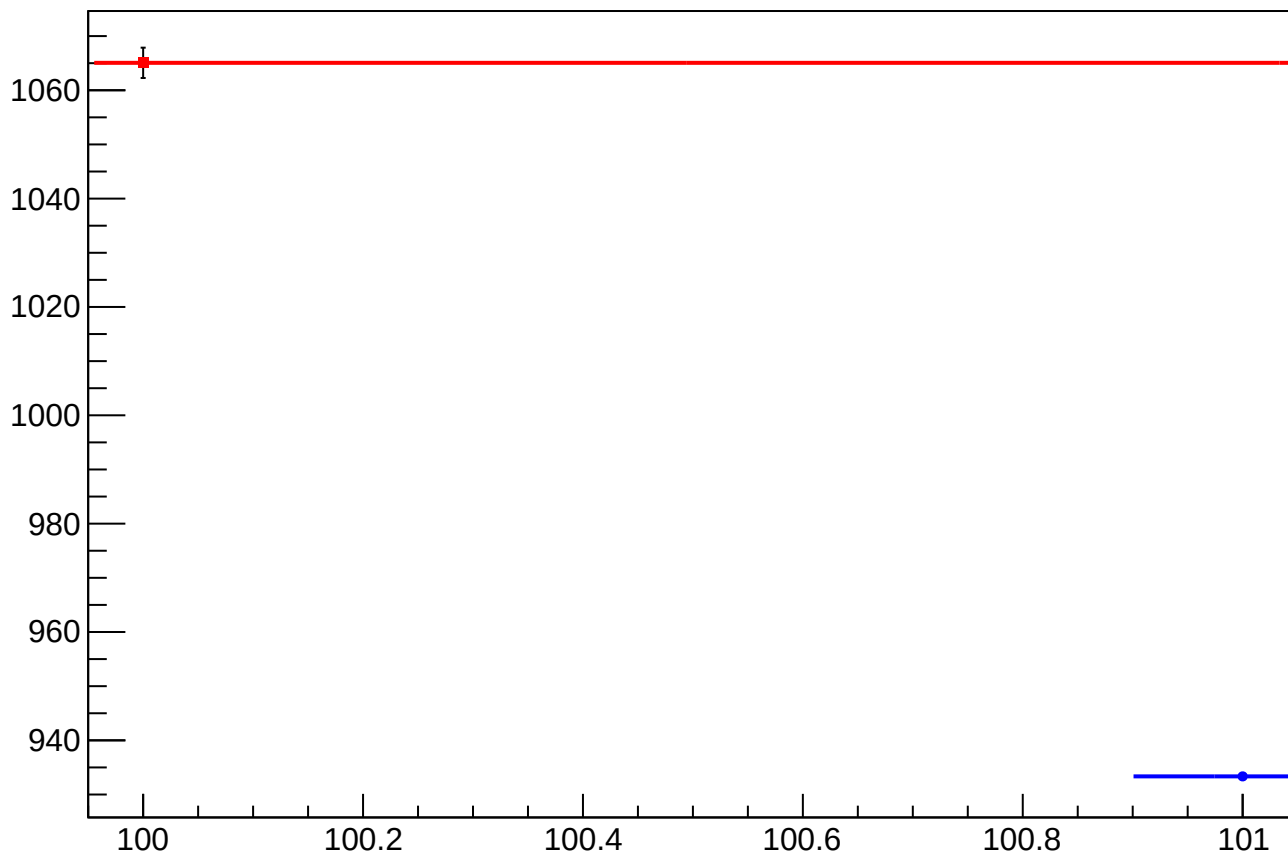
Right: -1402.466 $\pm$ 1108.494  $\chi^2$ /NDF: 7.0/1

In: -2259.668 $\pm$ 1154.706  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1402.466 $\pm$ 1108.494  $\chi^2$ /NDF: 7.0/1

asym\_sam\_48\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 933.349 $\pm$ 0.817  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1065.063 $\pm$ 2.799  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

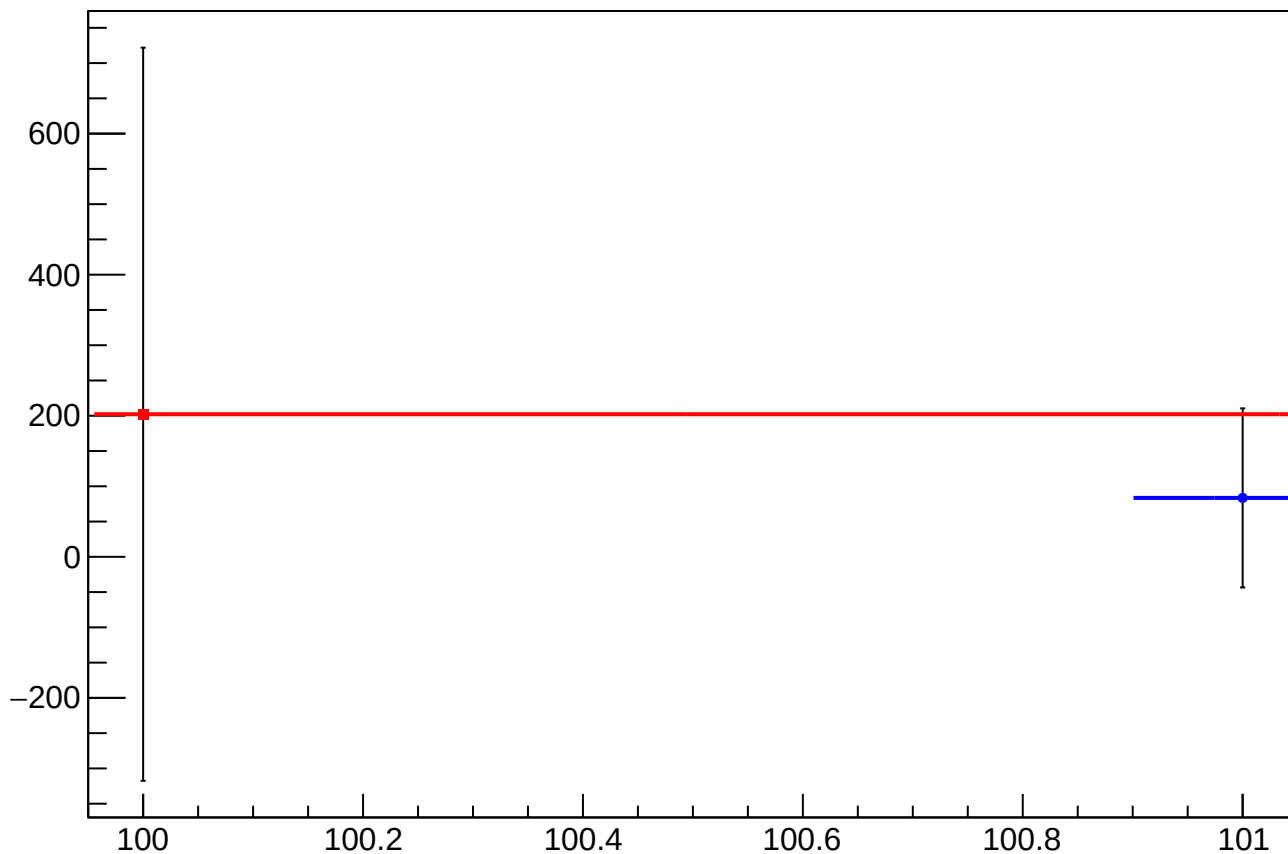
Right: 943.680 $\pm$ 0.784  $\chi^2/\text{NDF}$ : 2041.2/1

In: 933.349 $\pm$ 0.817  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 943.680 $\pm$ 0.784  $\chi^2/\text{NDF}$ : 2041.2/1

cor\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 83.535+/-126.946  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.155+/-519.702  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

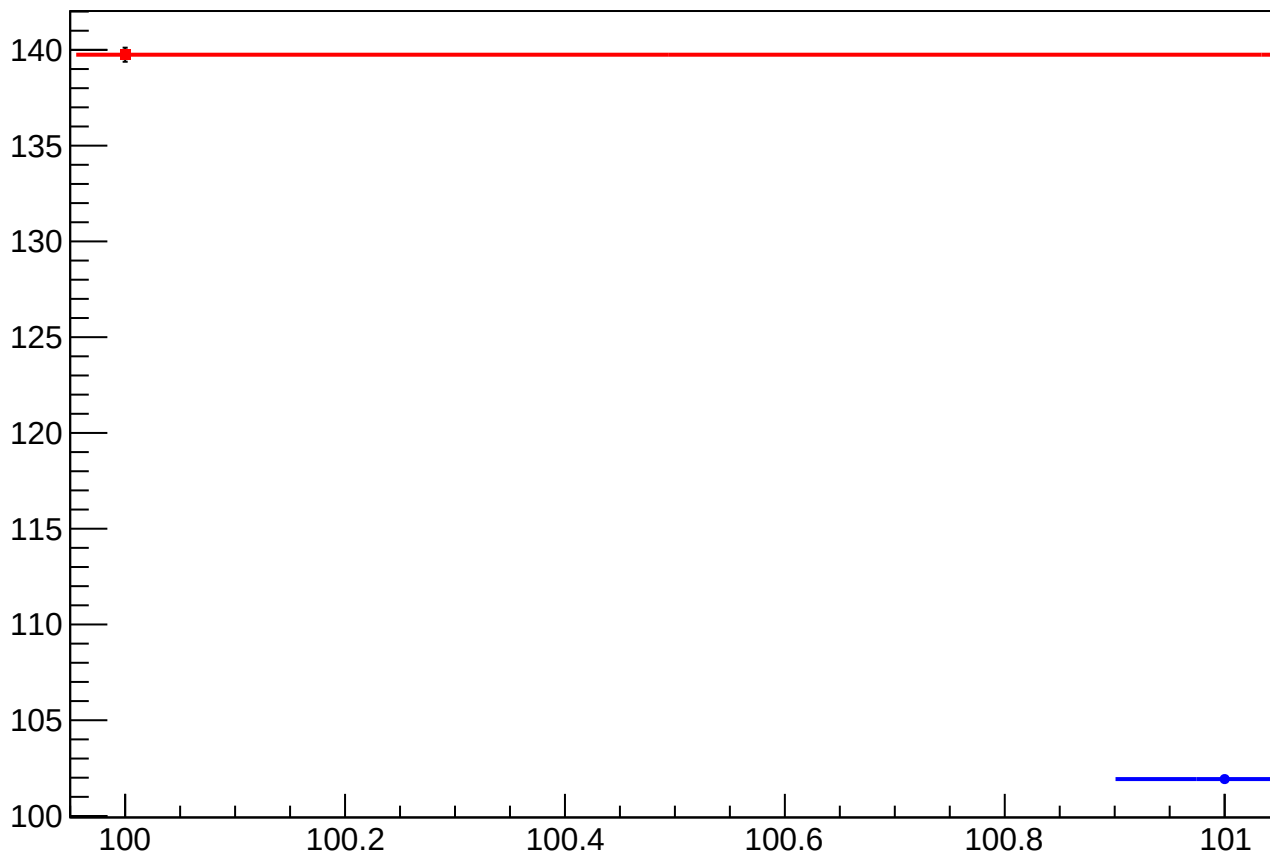
Right: 90.214+/-123.321  $\chi^2/\text{NDF}$ : 0.0/1

In: 83.535+/-126.946  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 90.214+/-123.321  $\chi^2/\text{NDF}$ : 0.0/1

cor\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 101.928 $\pm$ 0.090  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 139.748 $\pm$ 0.367  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 104.057 $\pm$ 0.087  $\chi^2$ /NDF: 9995.2/1

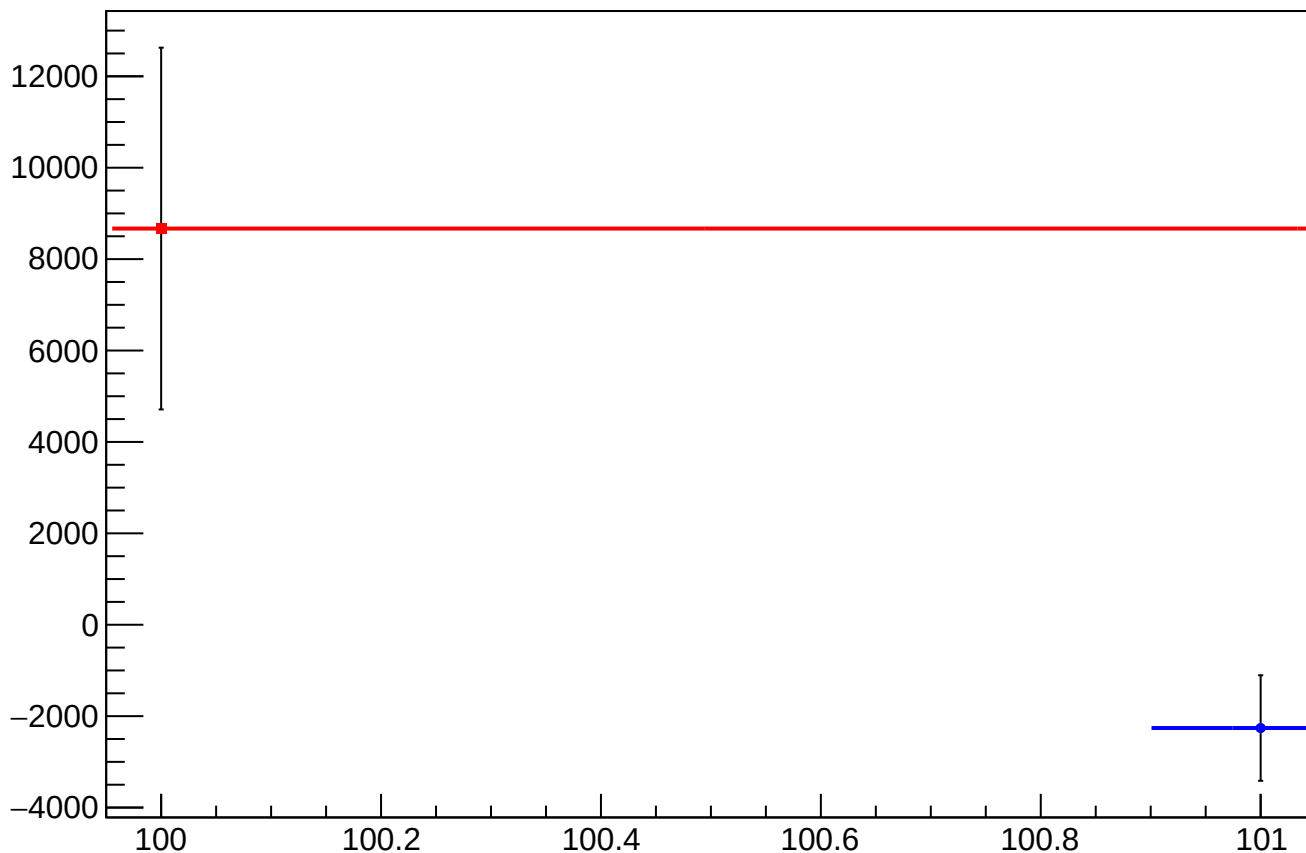
In: 101.928 $\pm$ 0.090  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 104.057 $\pm$ 0.087  $\chi^2$ /NDF: 9995.2/1



asym\_sam\_48\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2259.659+/-1154.705  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8668.617+/-3957.928  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

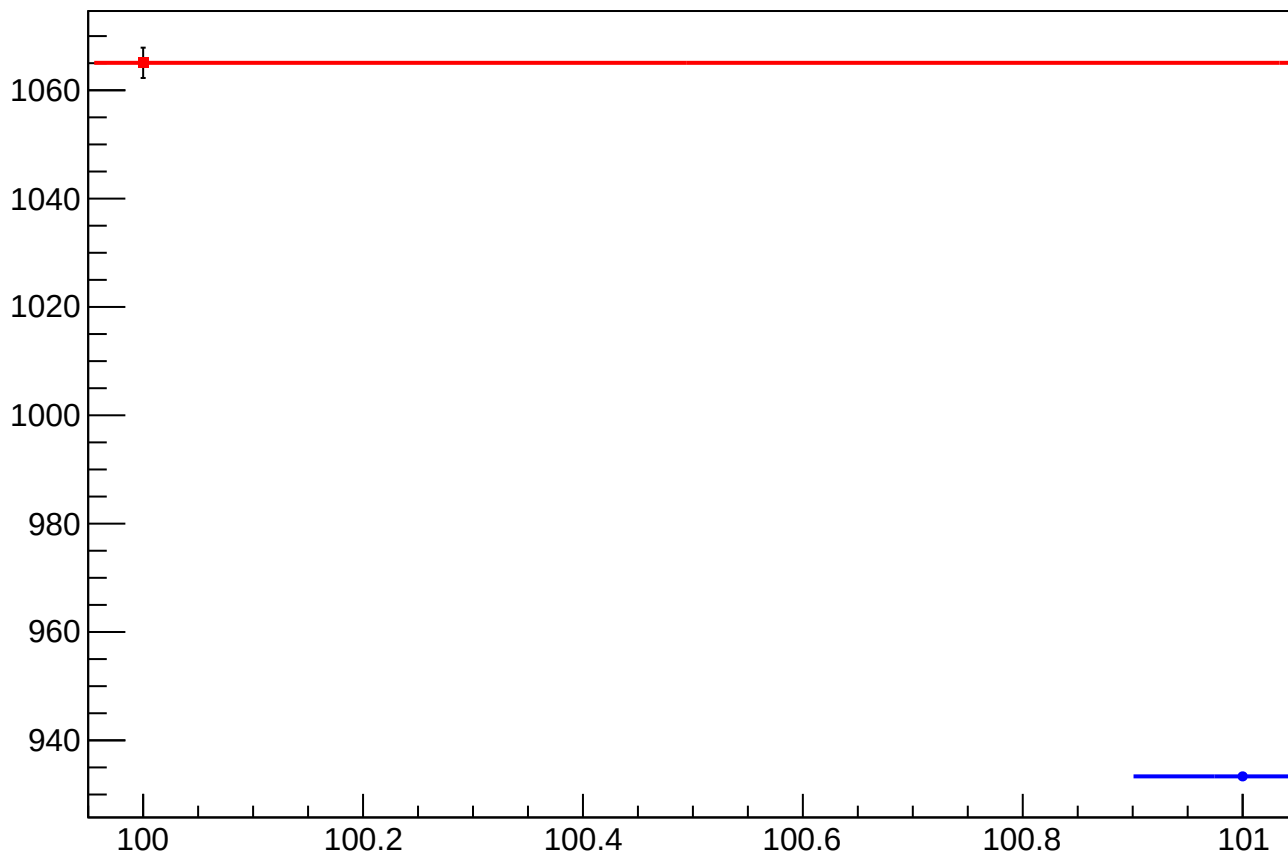
Right: -1402.459+/-1108.493  $\chi^2/\text{NDF}$ : 7.0/1

In: -2259.659+/-1154.705  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1402.459+/-1108.493  $\chi^2/\text{NDF}$ : 7.0/1

asym\_sam\_48\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 933.348 $\pm$ 0.816  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1065.063 $\pm$ 2.799  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

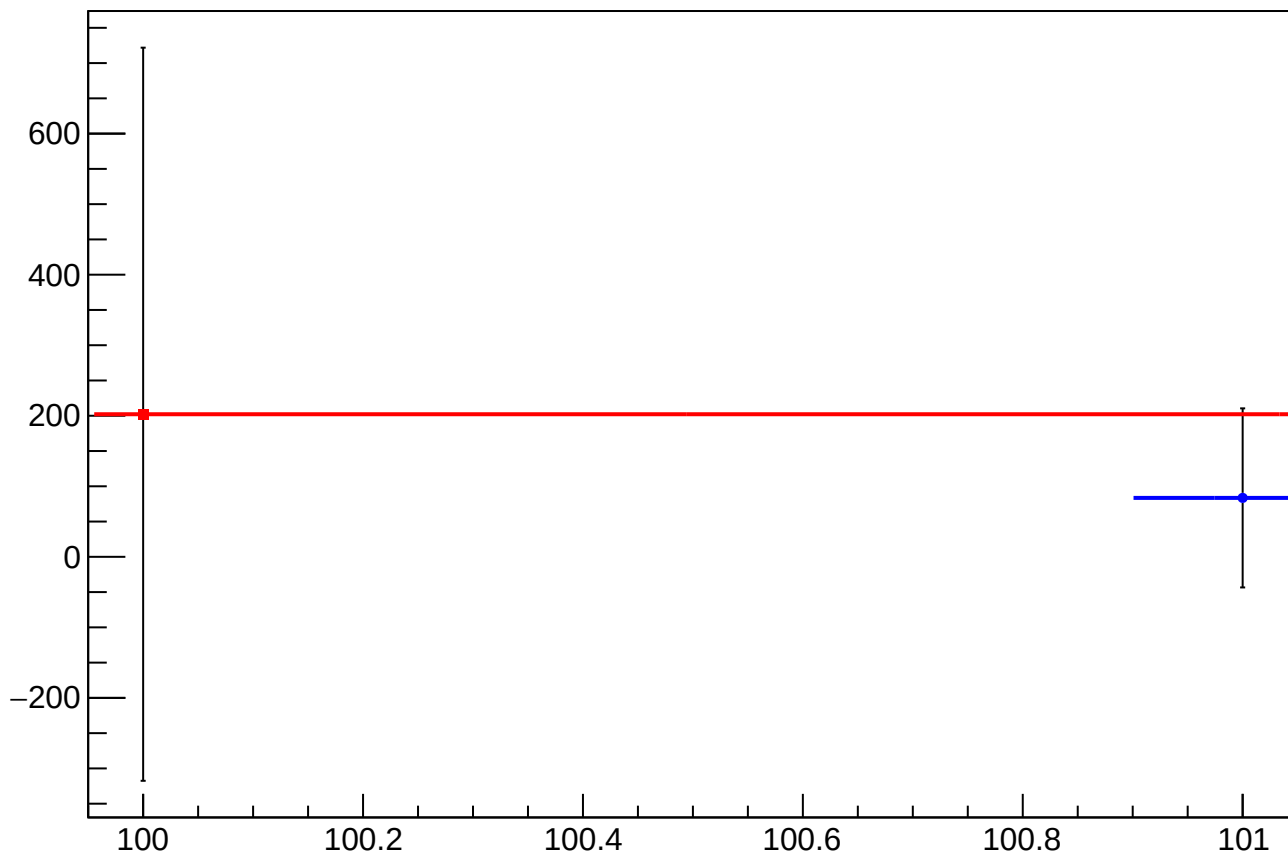
Right: 943.680 $\pm$ 0.784  $\chi^2$ /NDF: 2041.2/1

In: 933.348 $\pm$ 0.816  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 943.680 $\pm$ 0.784  $\chi^2$ /NDF: 2041.2/1

eigen\_cor\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 83.535+/-126.946  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 202.155+/-519.702  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

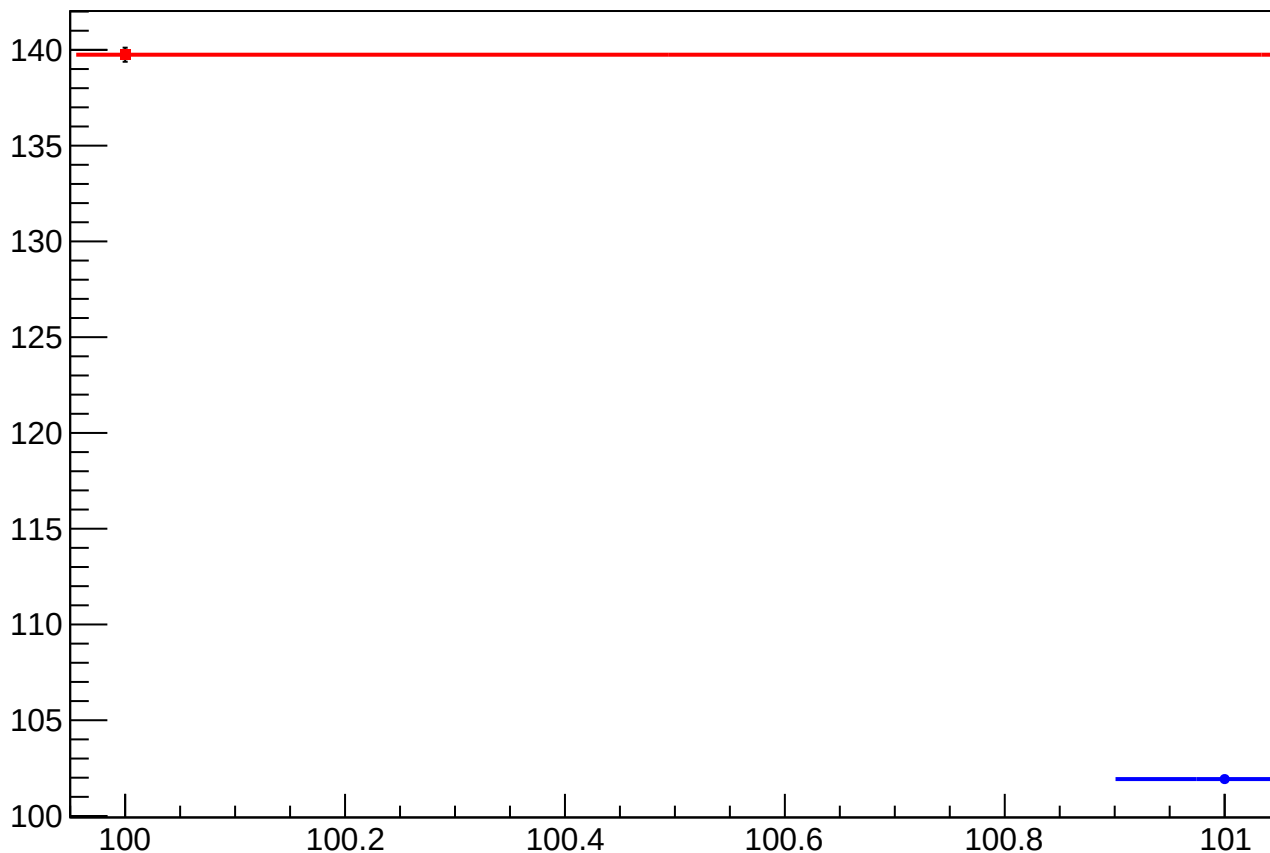
Right: 90.214+/-123.321  $\chi^2/\text{NDF}$ : 0.0/1

In: 83.535+/-126.946  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 90.214+/-123.321  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 101.928+/-0.090  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 139.748+/-0.367  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

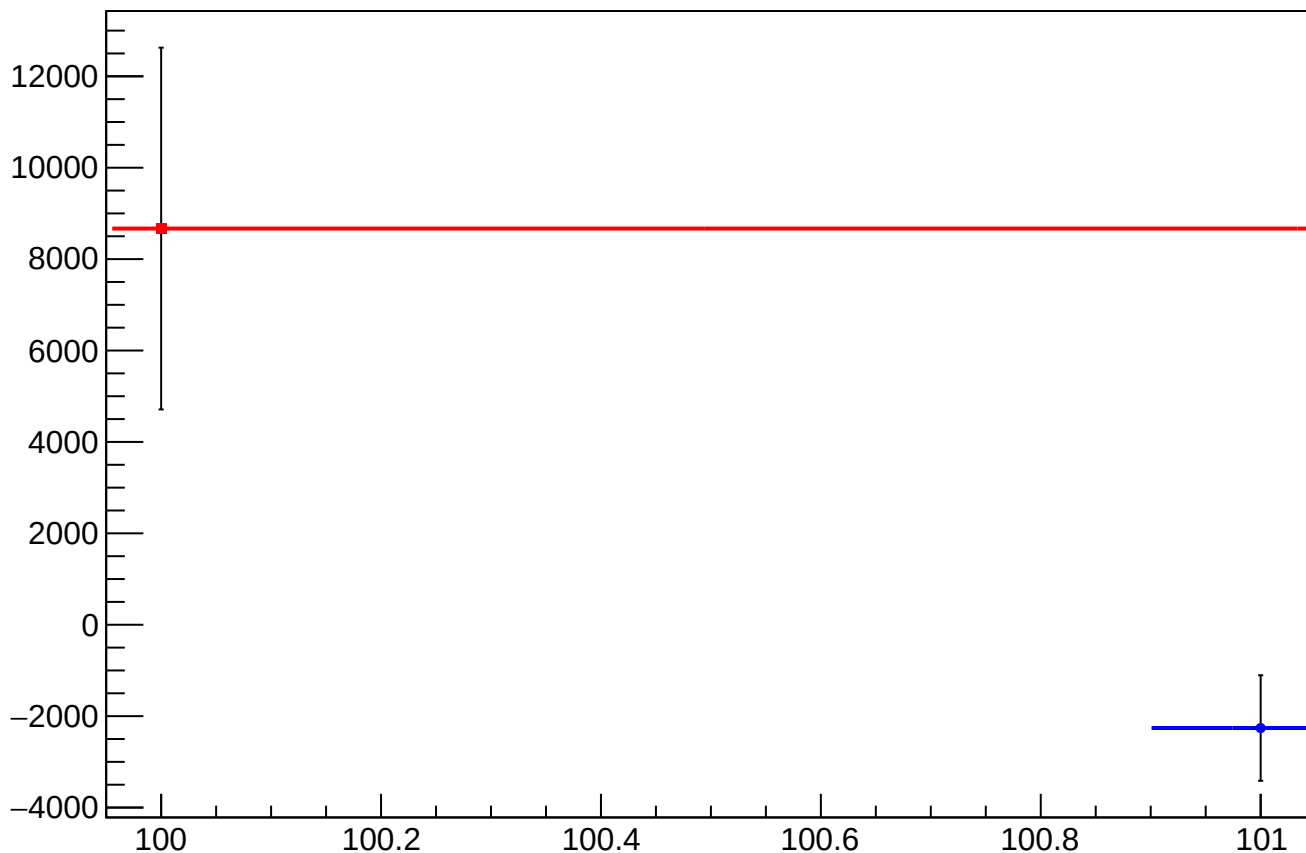
Right: 104.057+/-0.087  $\chi^2/\text{NDF}$ : 9995.2/1

In: 101.928+/-0.090  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 104.057+/-0.087  $\chi^2/\text{NDF}$ : 9995.2/1

asym\_sam\_48\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2259.659+/-1154.705  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8668.617+/-3957.928  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

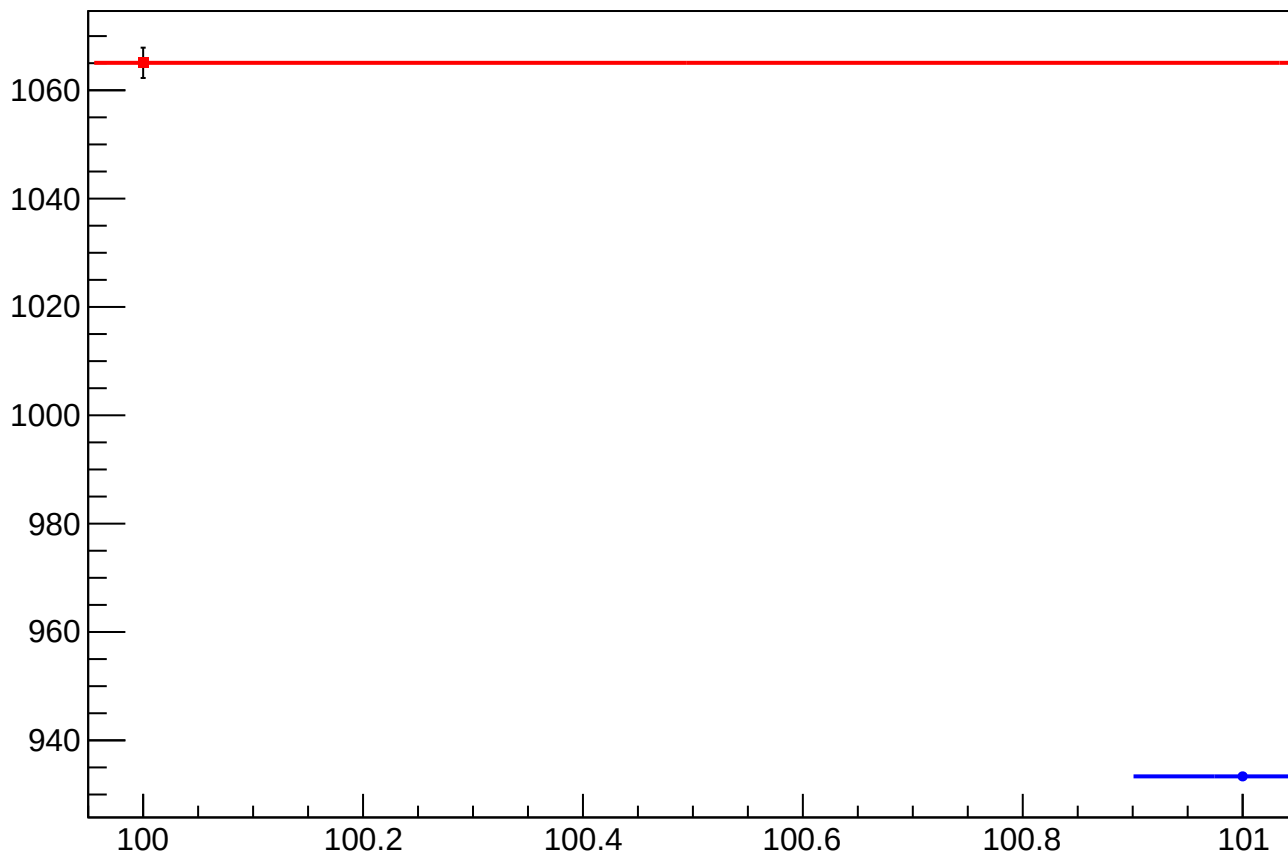
Right: -1402.459+/-1108.493  $\chi^2$ /NDF: 7.0/1

In: -2259.659+/-1154.705  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1402.459+/-1108.493  $\chi^2$ /NDF: 7.0/1

asym\_sam\_48\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 933.348 $\pm$ 0.816  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1065.063 $\pm$ 2.799  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

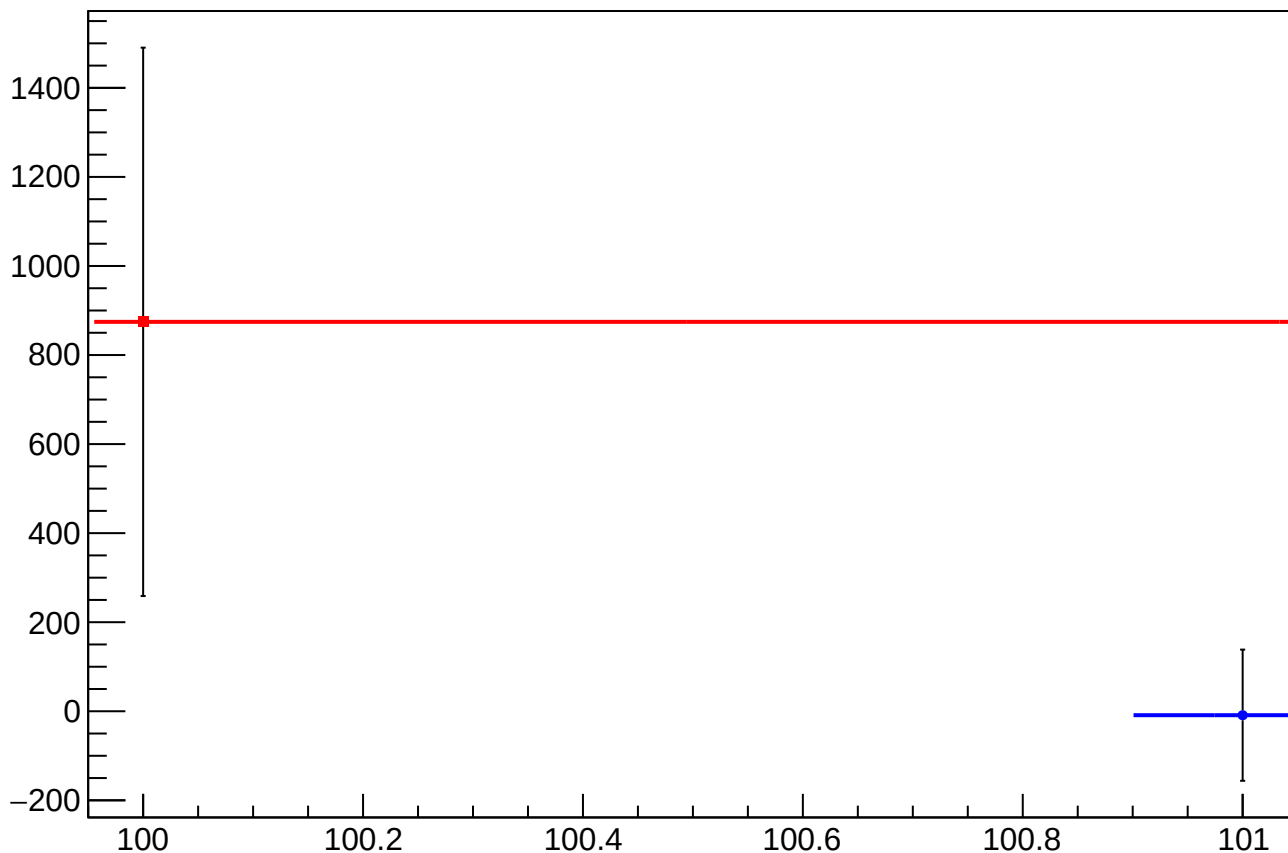
Right: 943.680 $\pm$ 0.784  $\chi^2$ /NDF: 2041.2/1

In: 933.348 $\pm$ 0.816  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 943.680 $\pm$ 0.784  $\chi^2$ /NDF: 2041.2/1

dit\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: -8.859+/-147.317  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 874.523+/-615.750  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

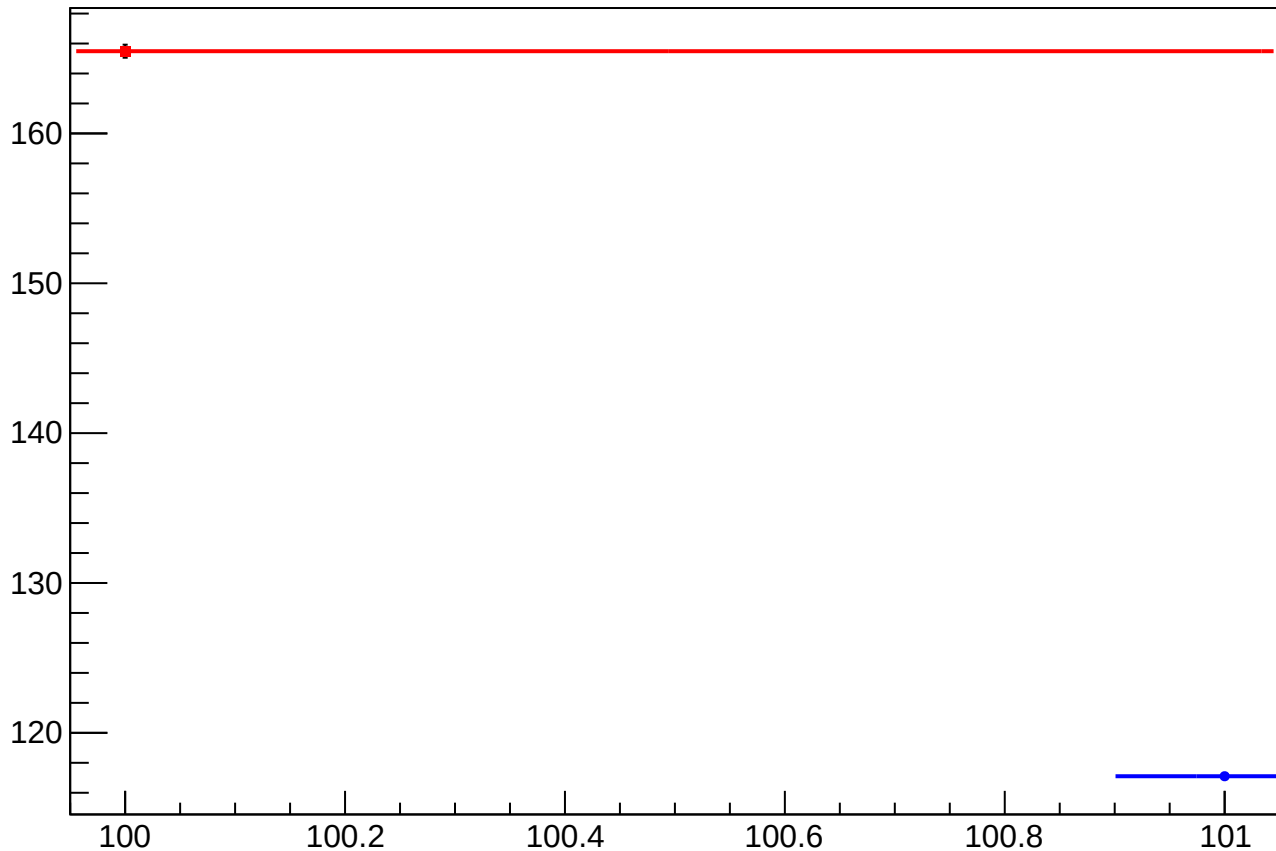
Right: 38.967+/-143.273  $\chi^2/\text{NDF}$ : 1.9/1

In: -8.859+/-147.317  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.967+/-143.273  $\chi^2/\text{NDF}$ : 1.9/1

# dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 117.104 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 165.488 $\pm$ 0.435  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 119.723 $\pm$ 0.101  $\chi^2$ /NDF: 11680.5/1

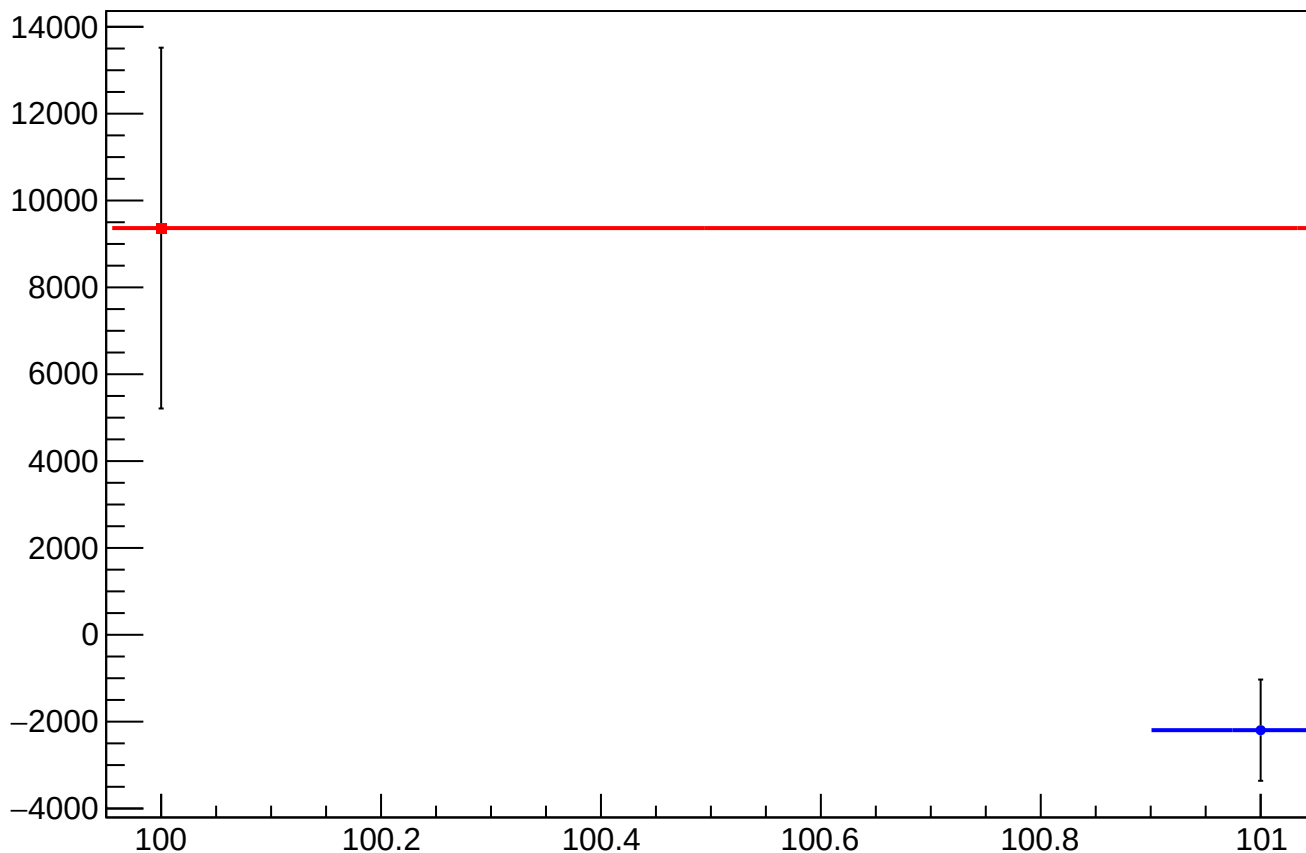
In: 117.104 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 119.723 $\pm$ 0.101  $\chi^2$ /NDF: 11680.5/1



asym\_sam\_48\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2196.190+/-1165.775  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9365.566+/-4154.229  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

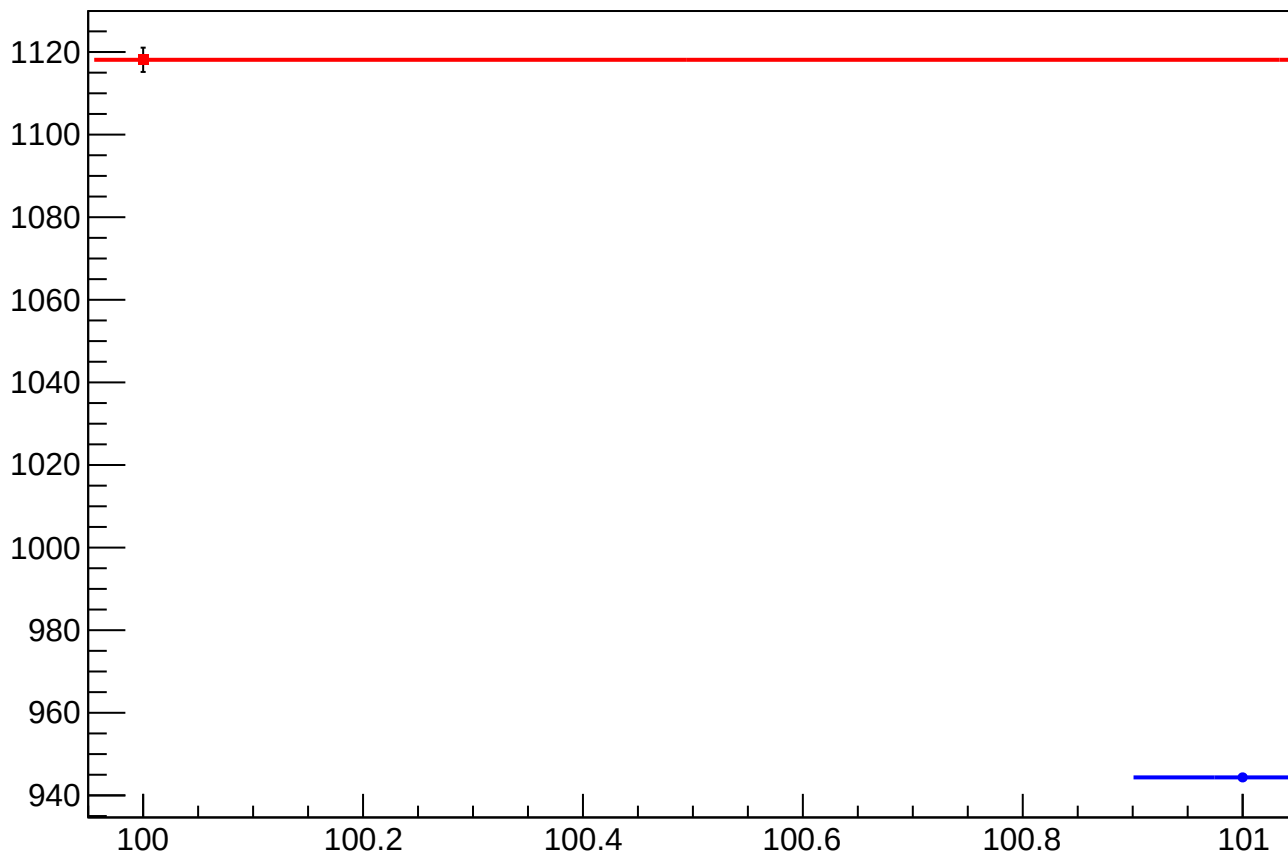
Right: -1352.171+/-1122.418  $\chi^2/\text{NDF}$ : 7.2/1

In: -2196.190+/-1165.775  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1352.171+/-1122.418  $\chi^2/\text{NDF}$ : 7.2/1

asym\_sam\_48\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 944.358 $\pm$ 0.824  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1118.113 $\pm$ 2.937  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

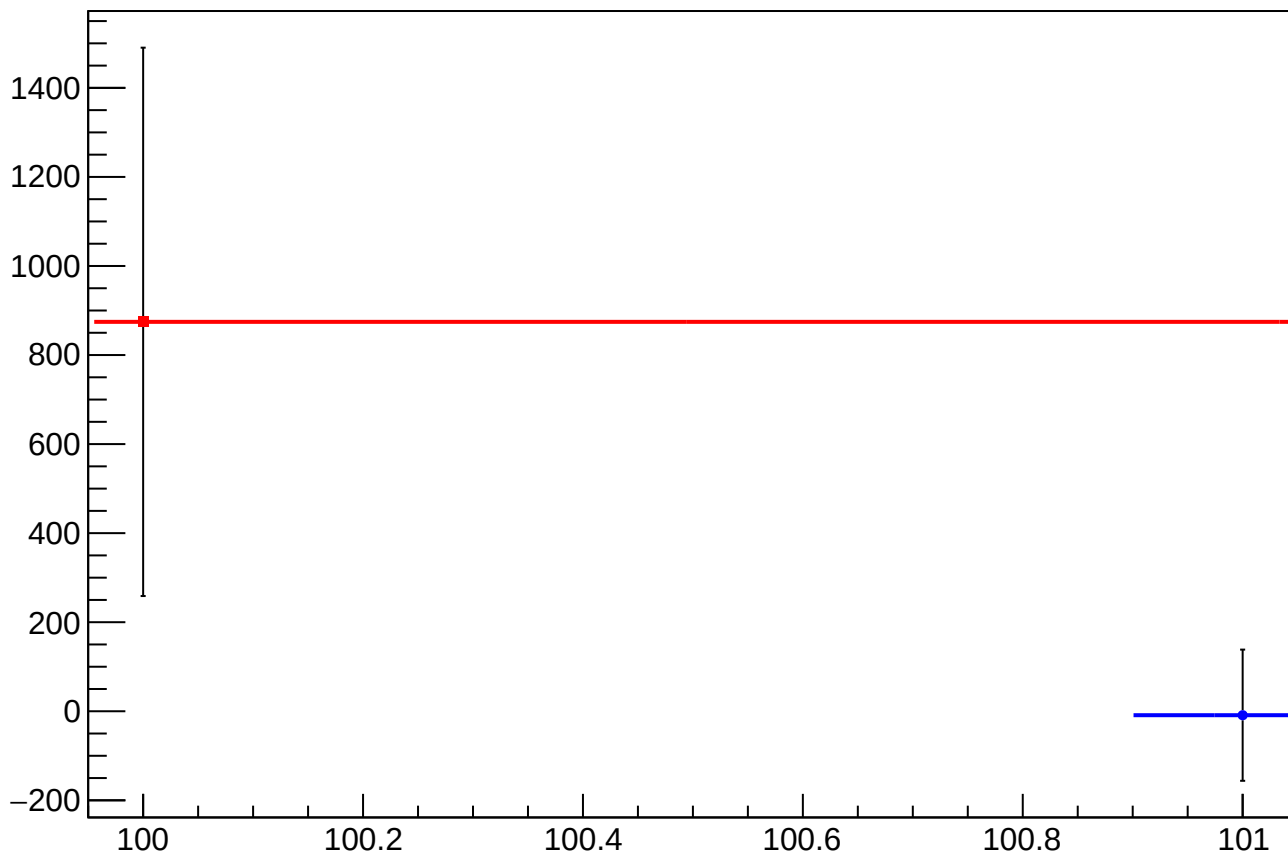
Right: 957.042 $\pm$ 0.794  $\chi^2$ /NDF: 3243.4/1

In: 944.358 $\pm$ 0.824  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 957.042 $\pm$ 0.794  $\chi^2$ /NDF: 3243.4/1

eigen\_dit\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: -8.861+/-147.318  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 874.529+/-615.754  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

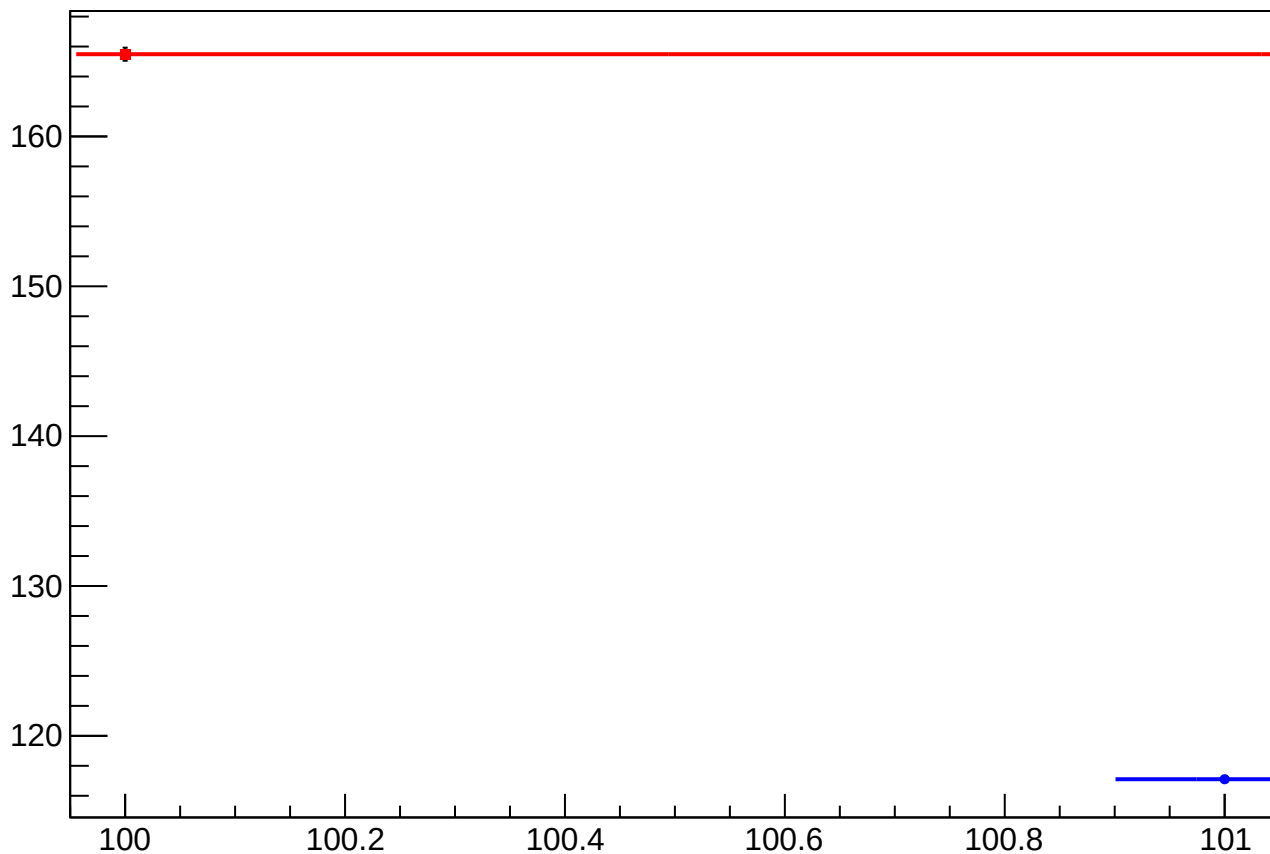
Right: 38.966+/-143.274  $\chi^2/\text{NDF}$ : 1.9/1

In: -8.861+/-147.318  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.966+/-143.274  $\chi^2/\text{NDF}$ : 1.9/1

eigen\_dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 117.104 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 165.489 $\pm$ 0.435  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

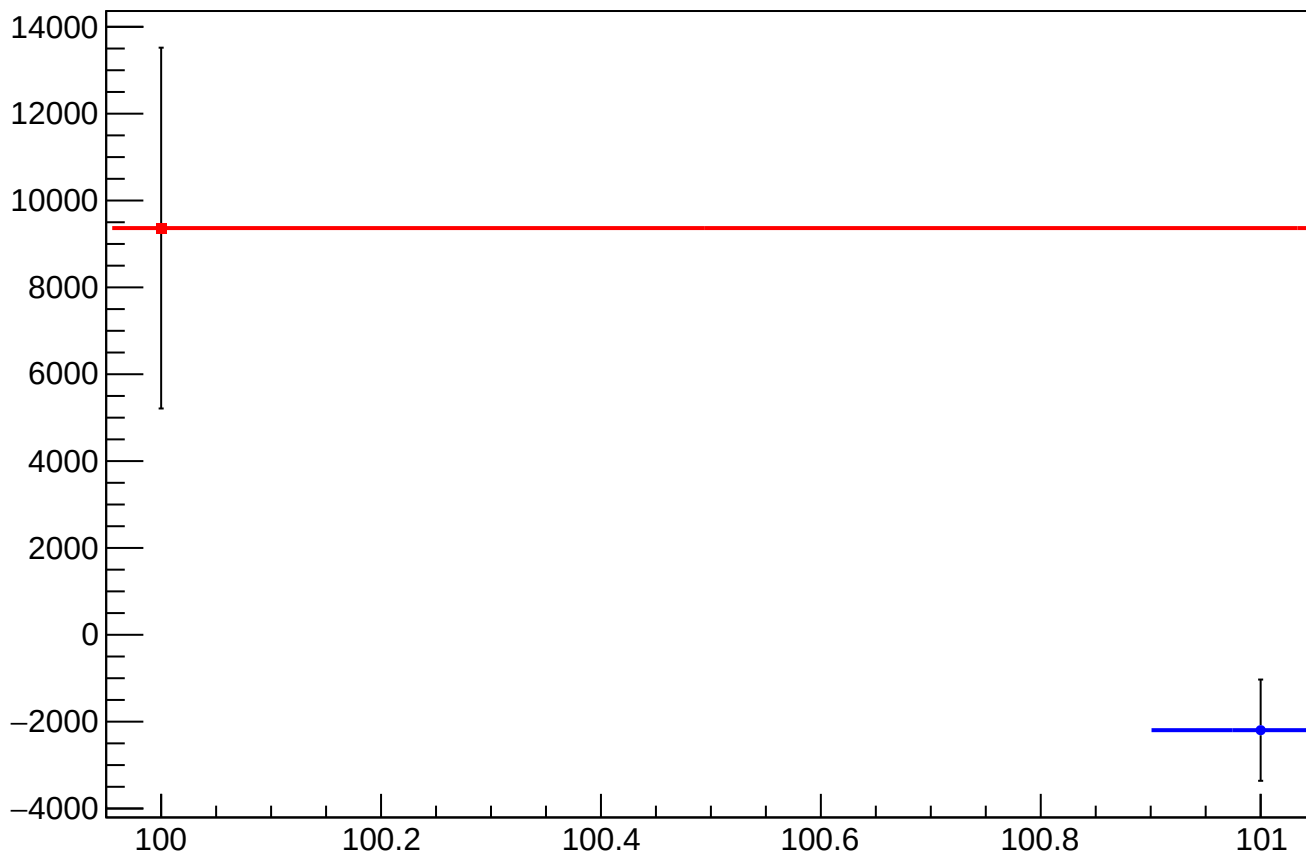
Right: 119.724 $\pm$ 0.101  $\chi^2$ /NDF: 11680.5/1

In: 117.104 $\pm$ 0.104  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 119.724 $\pm$ 0.101  $\chi^2$ /NDF: 11680.5/1

asym\_sam\_48\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2196.193+/-1165.777  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9365.573+/-4154.234  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

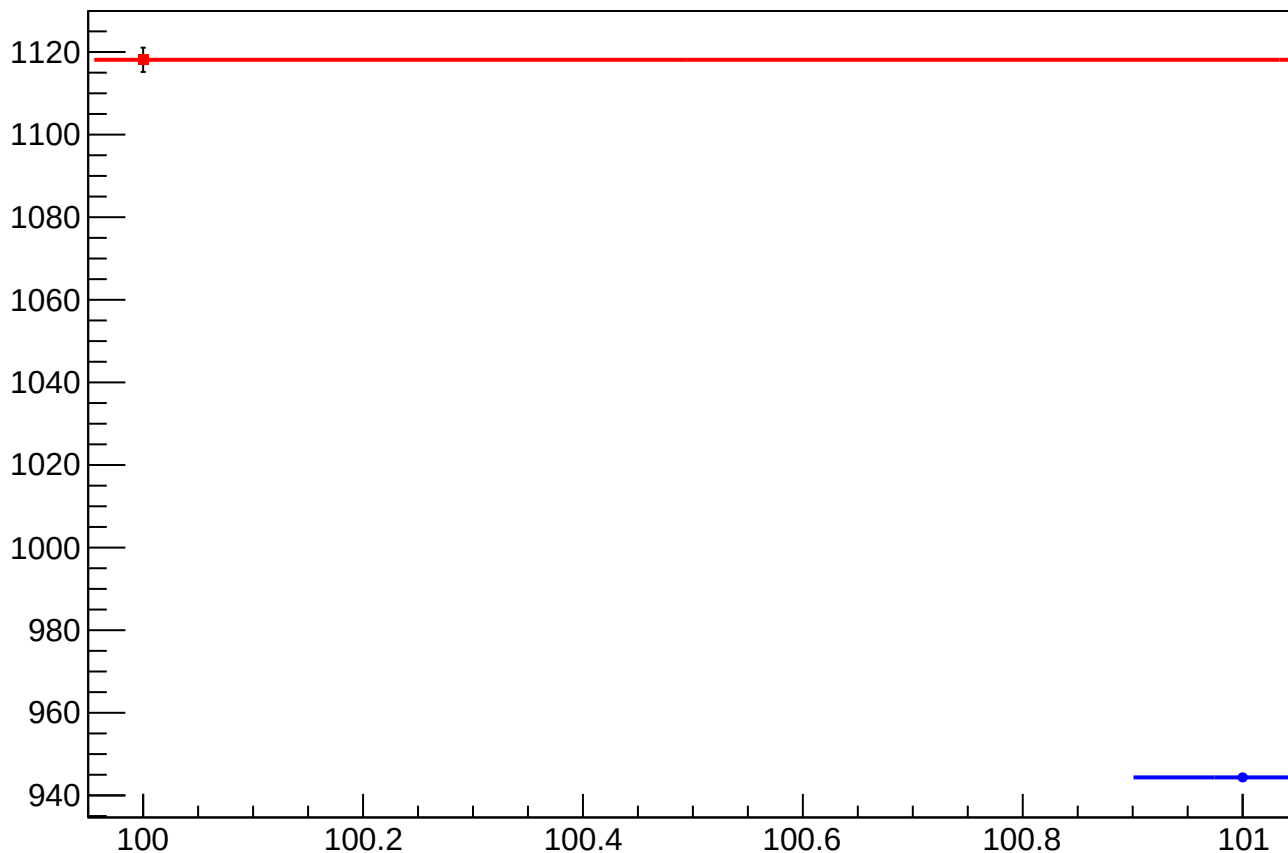
Right: -1352.173+/-1122.419  $\chi^2/\text{NDF}$ : 7.2/1

In: -2196.193+/-1165.777  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1352.173+/-1122.419  $\chi^2/\text{NDF}$ : 7.2/1

asym\_sam\_48\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 944.359 $\pm$ 0.824  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1118.114 $\pm$ 2.937  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

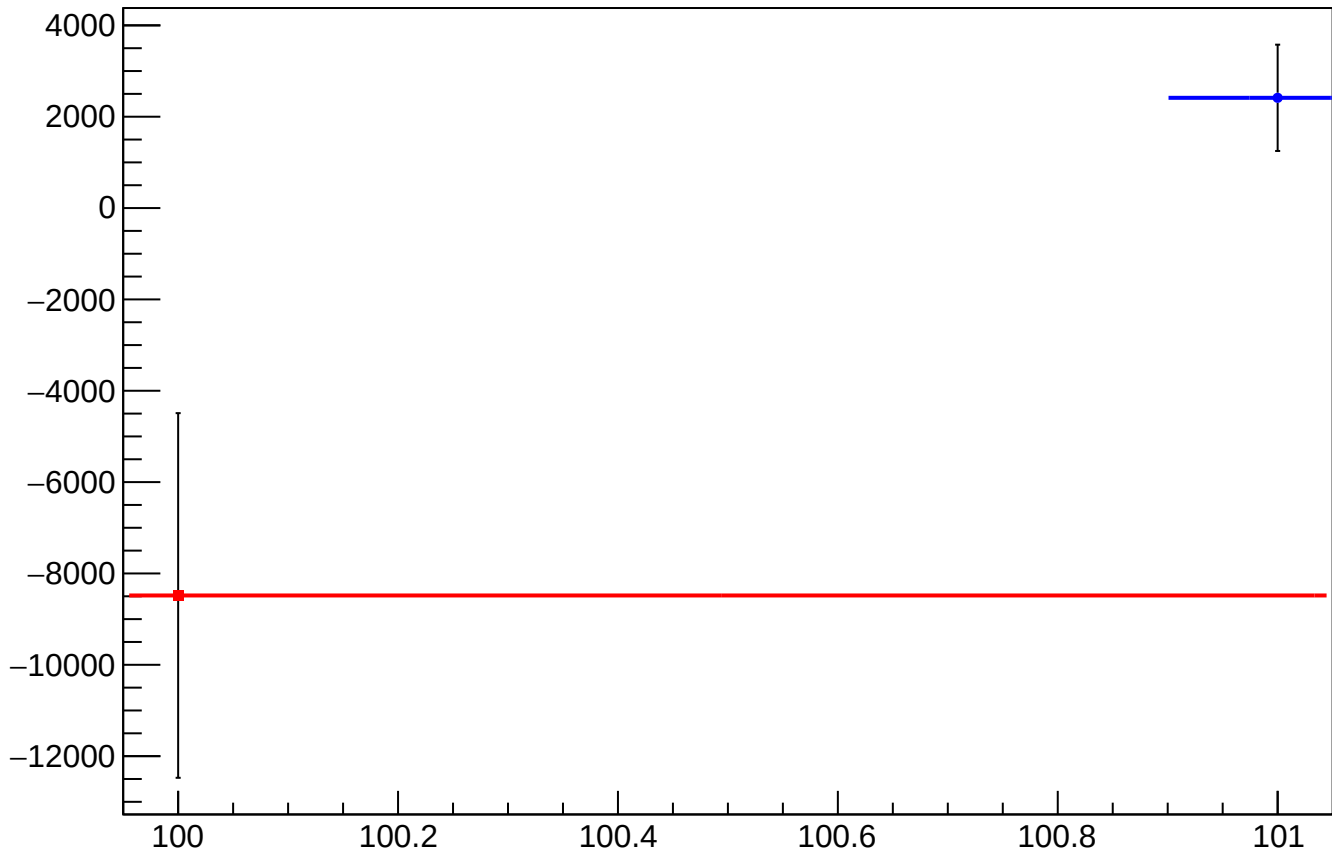
Right: 957.044 $\pm$ 0.794  $\chi^2$ /NDF: 3243.4/1

In: 944.359 $\pm$ 0.824  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 957.044 $\pm$ 0.794  $\chi^2$ /NDF: 3243.4/1

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 2413.633+/-1163.647  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -8482.007+/-3991.991  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

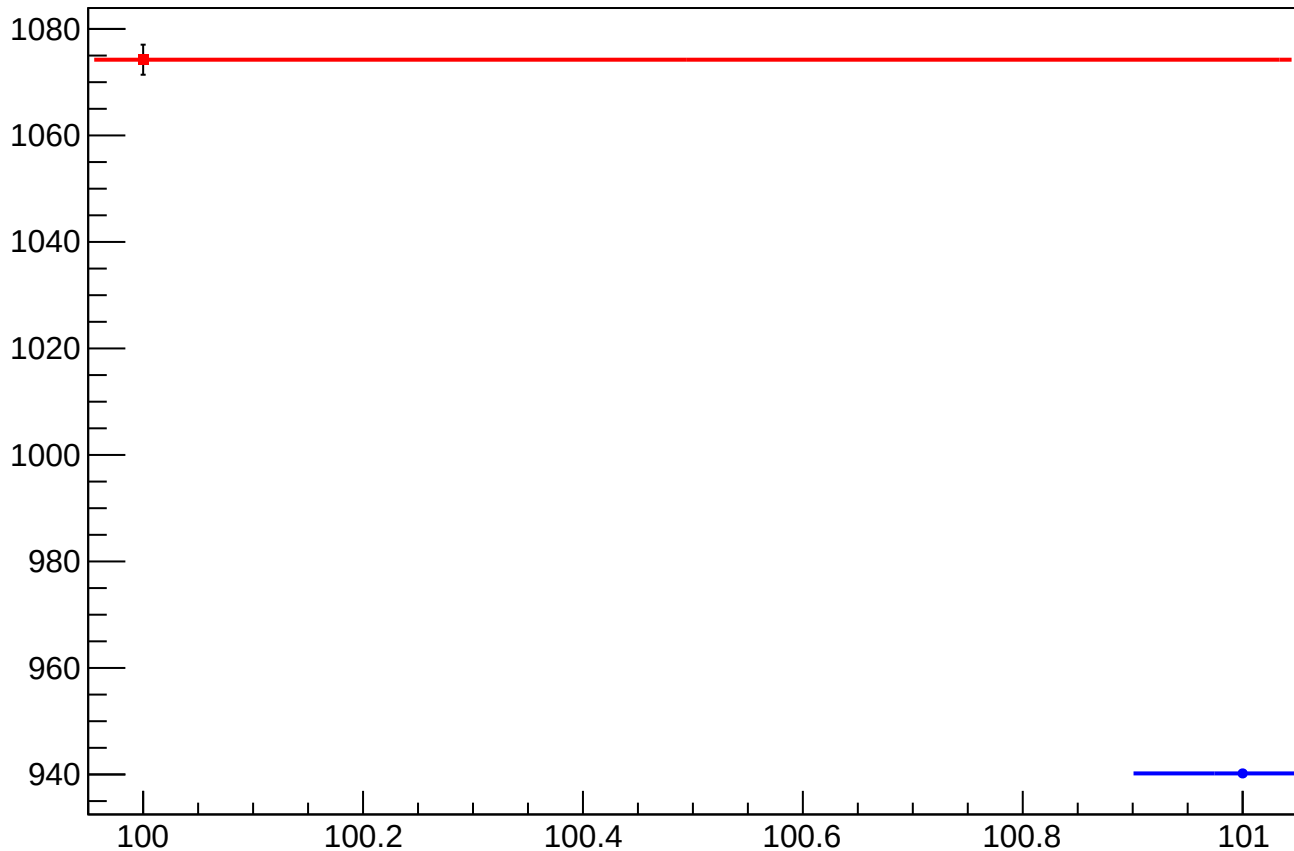
Right: 1560.339+/-1117.153  $\chi^2/\text{NDF}$ : 6.9/1

In: 2413.633+/-1163.647  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 1560.339+/-1117.153  $\chi^2/\text{NDF}$ : 6.9/1

# asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 940.195 $\pm$ 0.823  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1074.221 $\pm$ 2.823  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 950.692 $\pm$ 0.790  $\chi^2$ /NDF: 2077.8/1

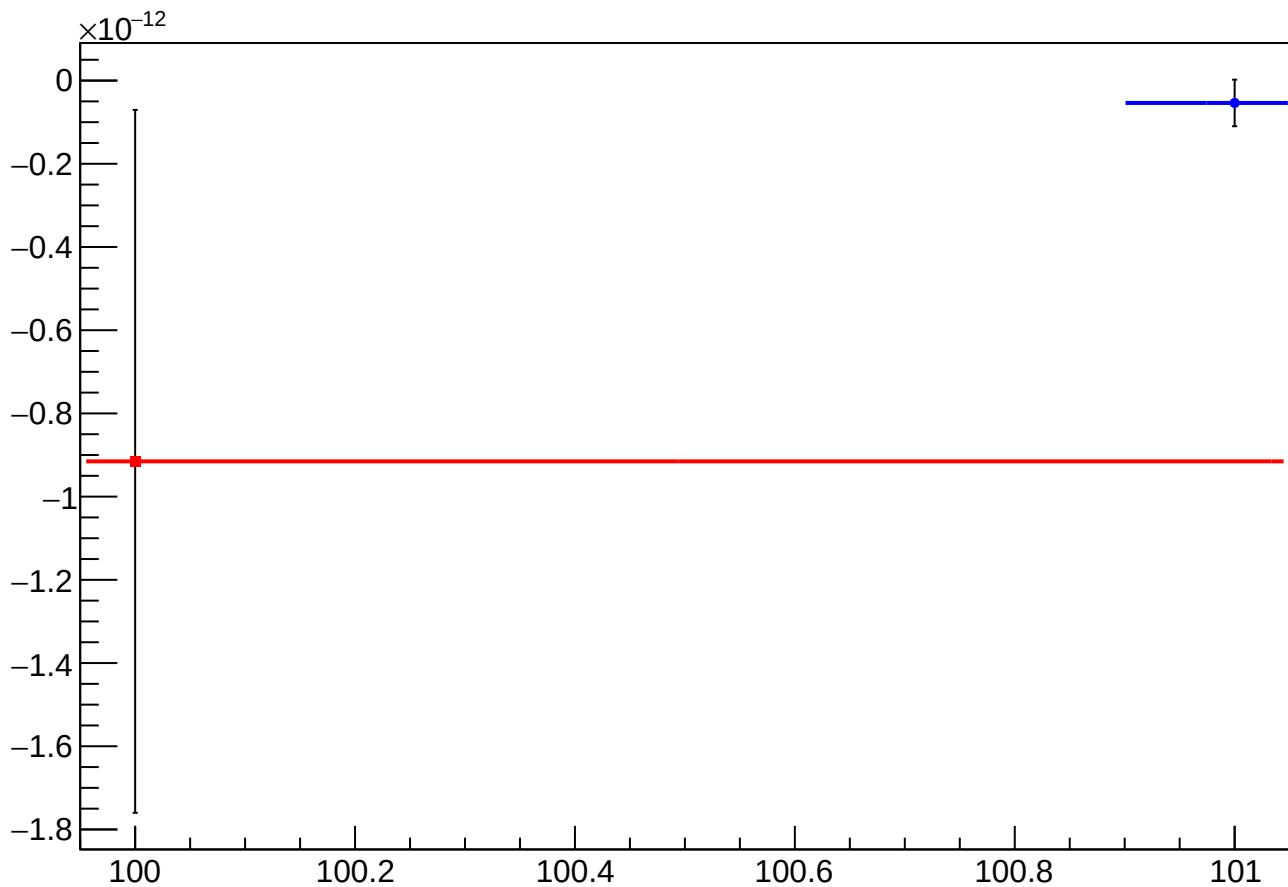
In: 940.195 $\pm$ 0.823  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 950.692 $\pm$ 0.790  $\chi^2$ /NDF: 2077.8/1



asym\_sam\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

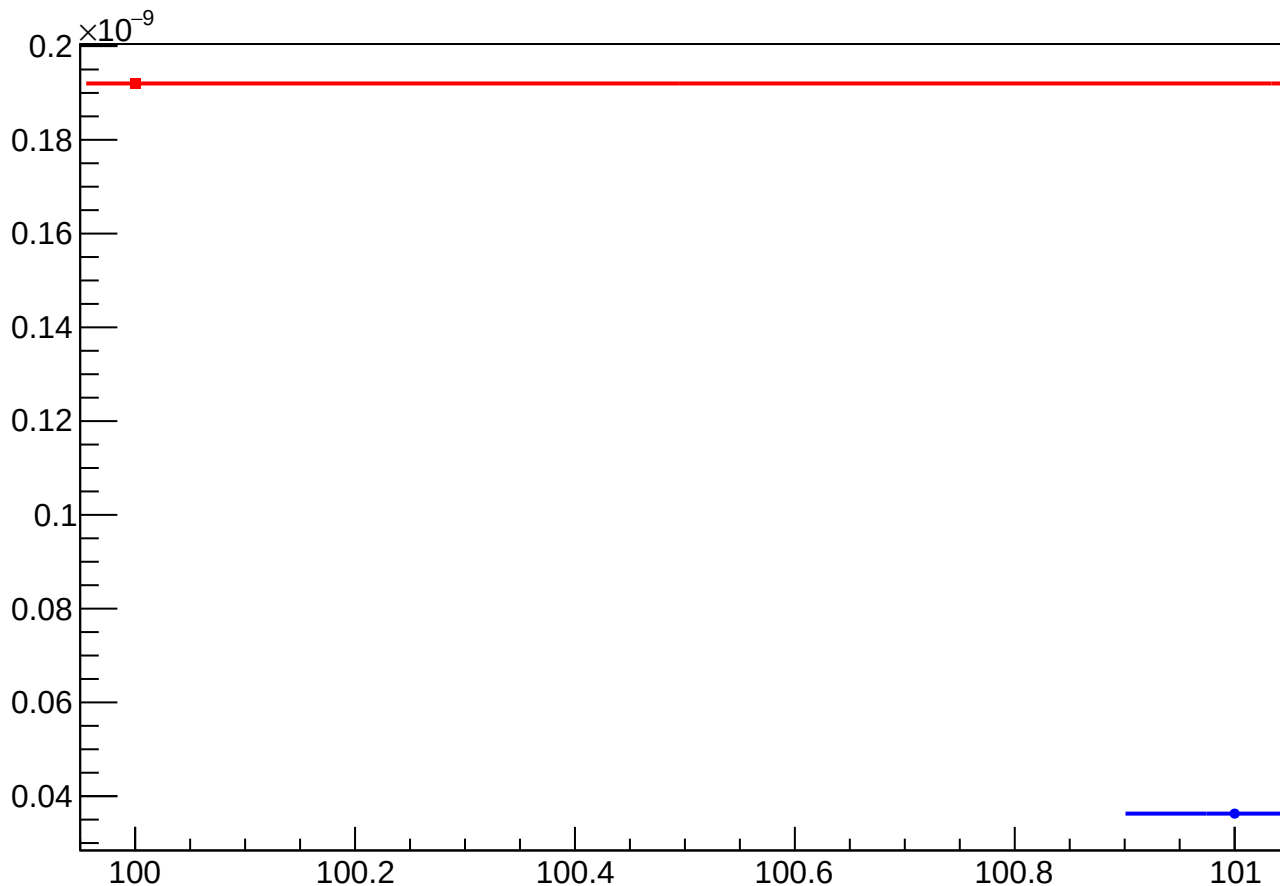
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

asym\_sam\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

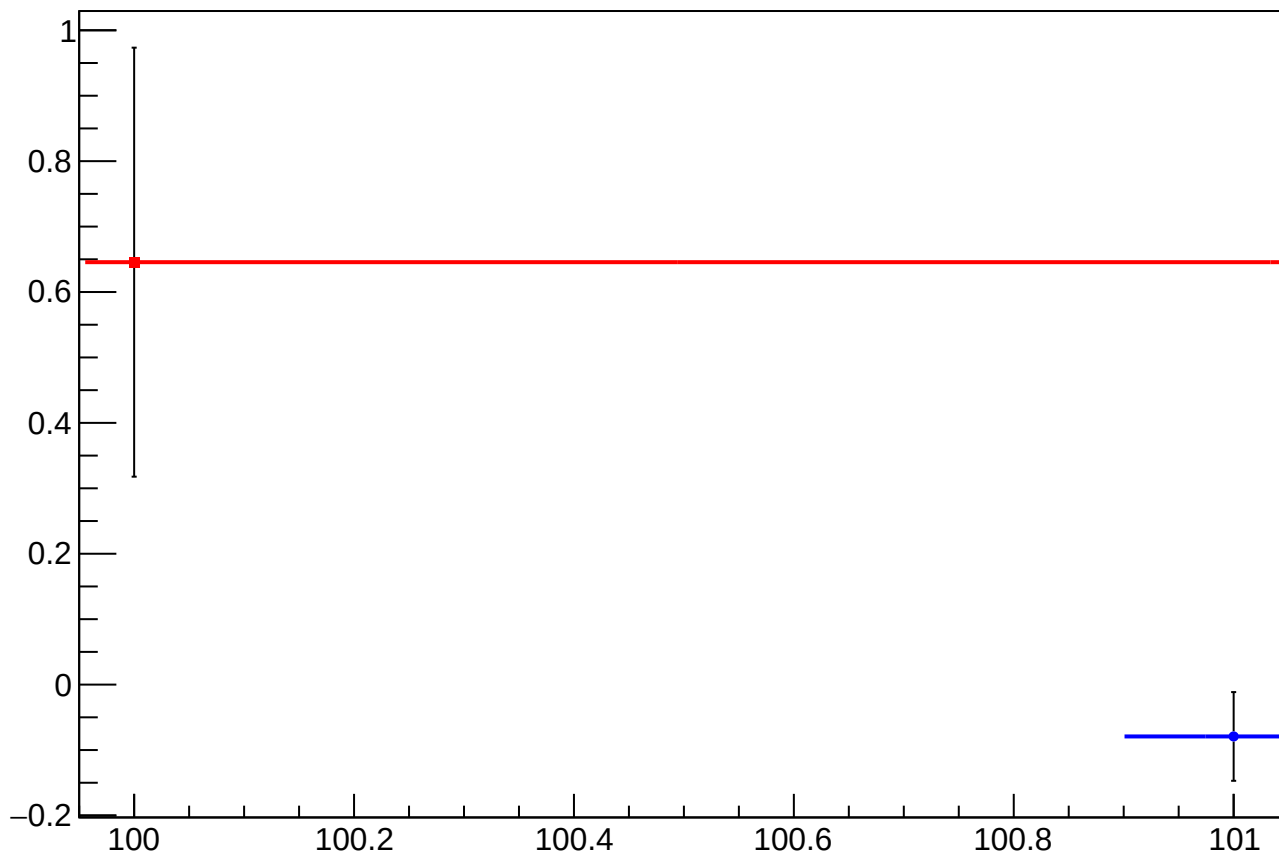
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 67689.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 67689.2/1

asym\_sam\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.646+/-0.328  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

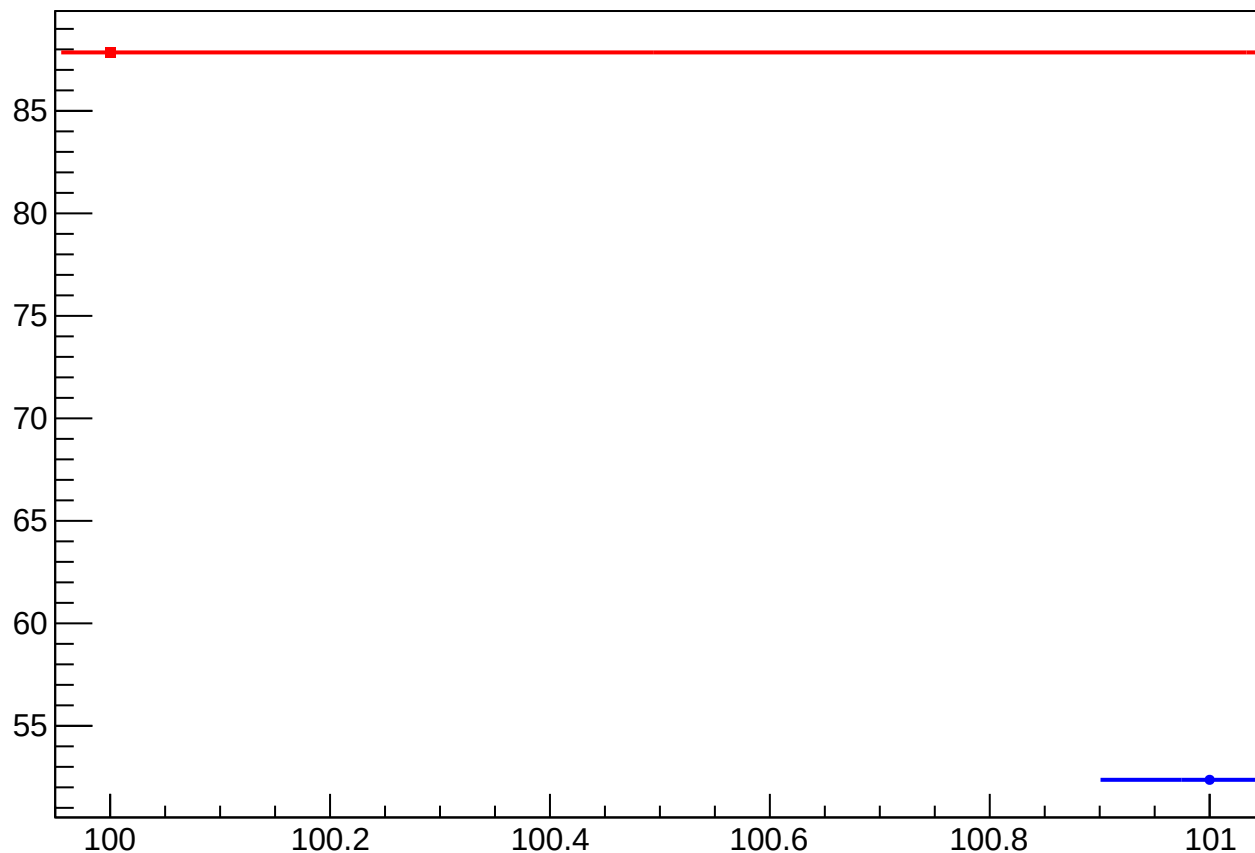
Right: -0.050+/-0.066  $\chi^2/\text{NDF}$ : 4.7/1

In: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.050+/-0.066  $\chi^2/\text{NDF}$ : 4.7/1

asym\_sam\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 52.368 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 87.852 $\pm$ 0.232  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

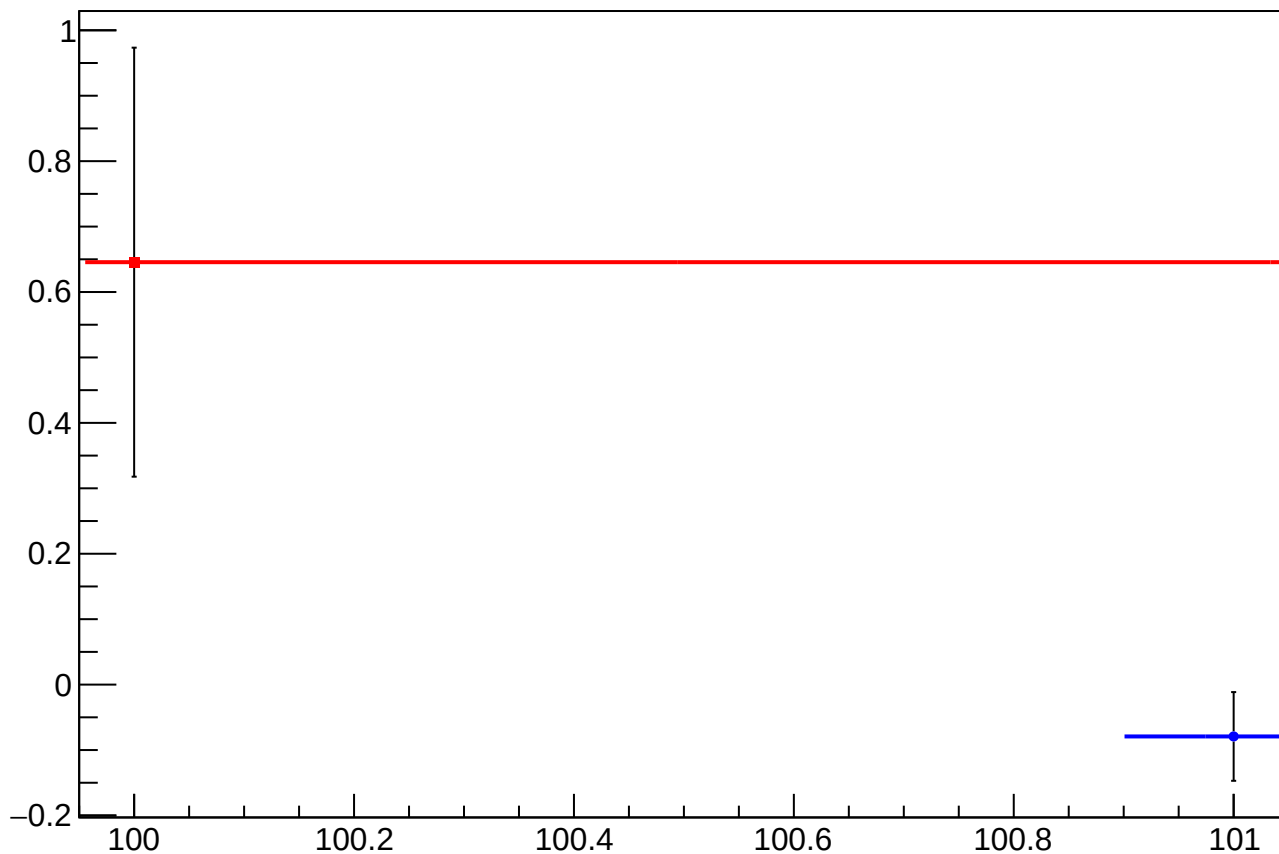
Right: 53.823 $\pm$ 0.047  $\chi^2$ /NDF: 22471.7/1

In: 52.368 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.823 $\pm$ 0.047  $\chi^2$ /NDF: 22471.7/1

asym\_sam\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.646+/-0.328  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

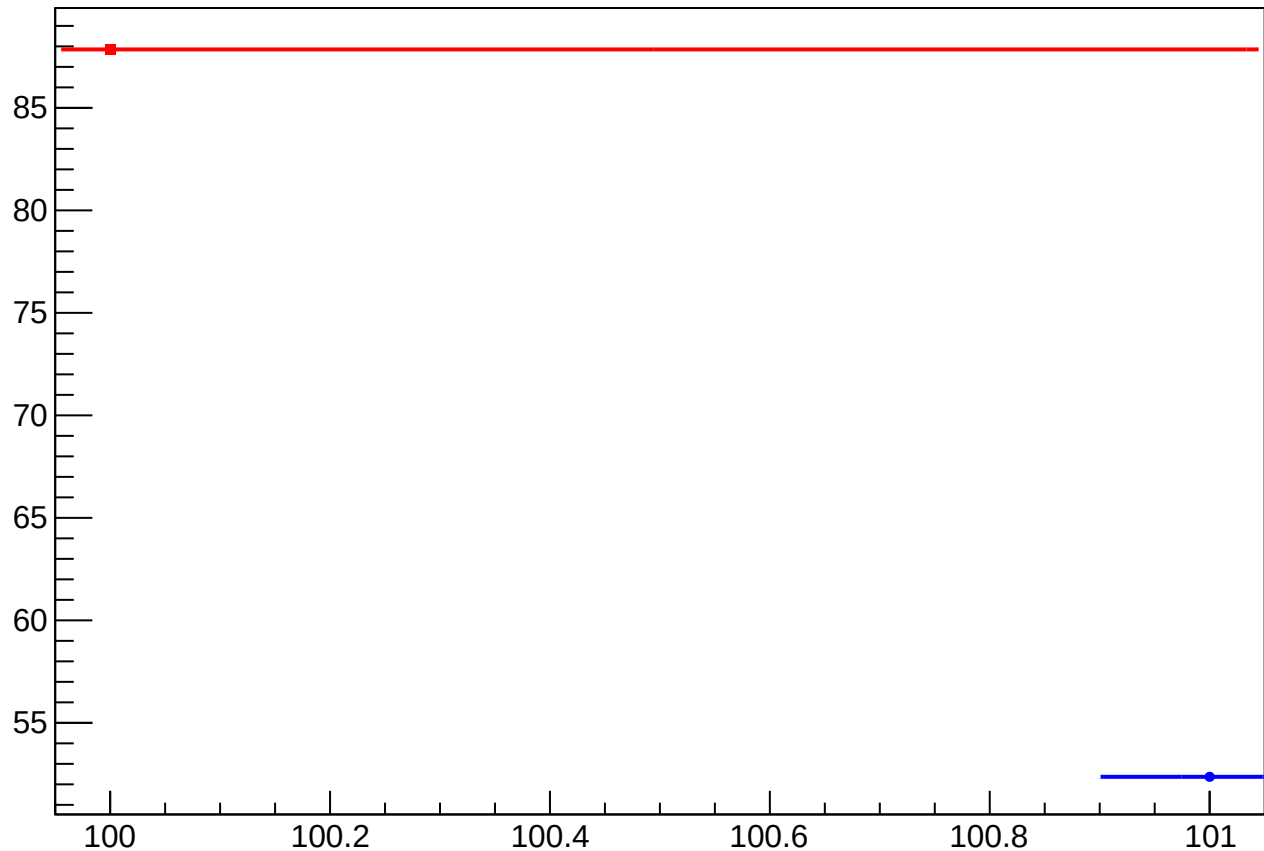
Right: -0.050+/-0.066  $\chi^2/\text{NDF}$ : 4.7/1

In: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.050+/-0.066  $\chi^2/\text{NDF}$ : 4.7/1

asym\_sam\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 52.368 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 87.852 $\pm$ 0.232  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

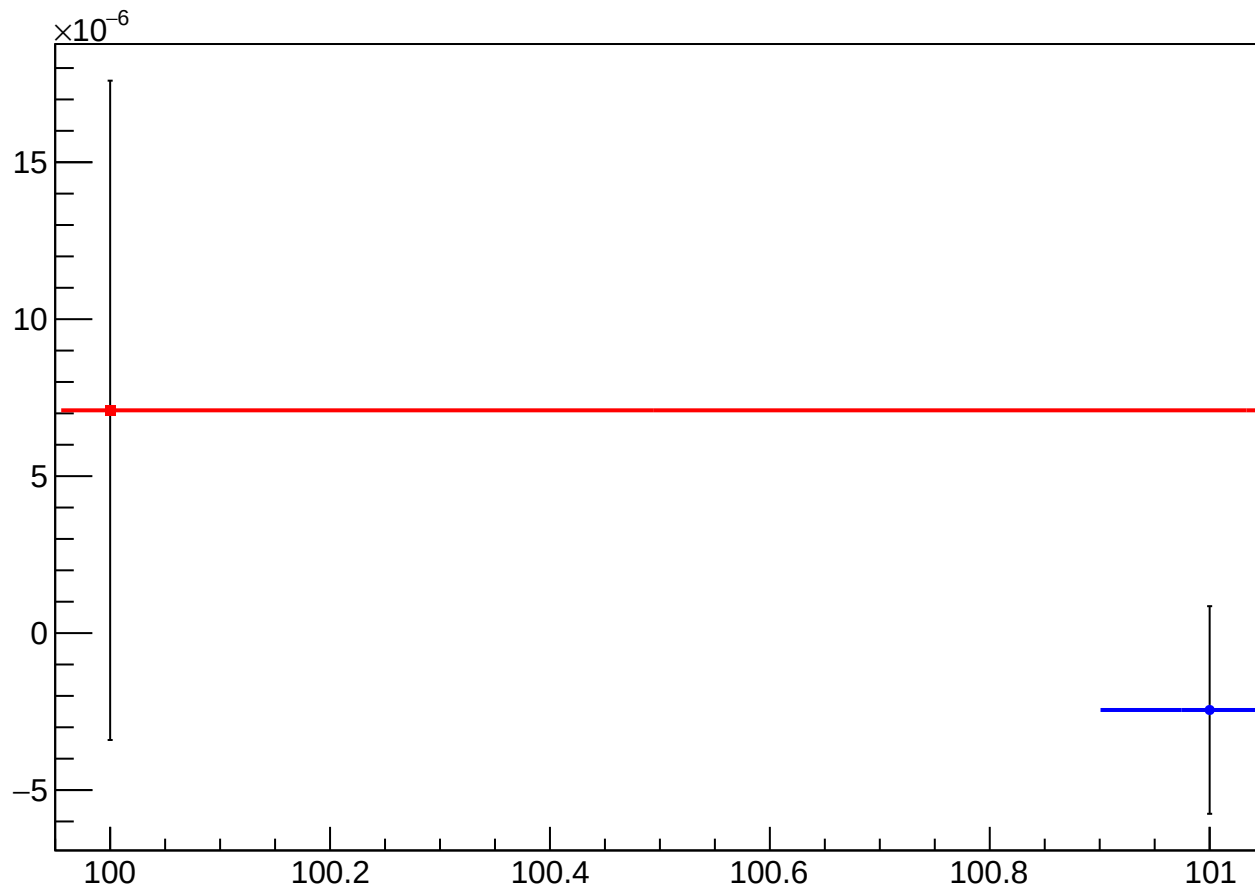
Right: 53.823 $\pm$ 0.047  $\chi^2$ /NDF: 22471.7/1

In: 52.368 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.823 $\pm$ 0.047  $\chi^2$ /NDF: 22471.7/1

asym\_sam\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

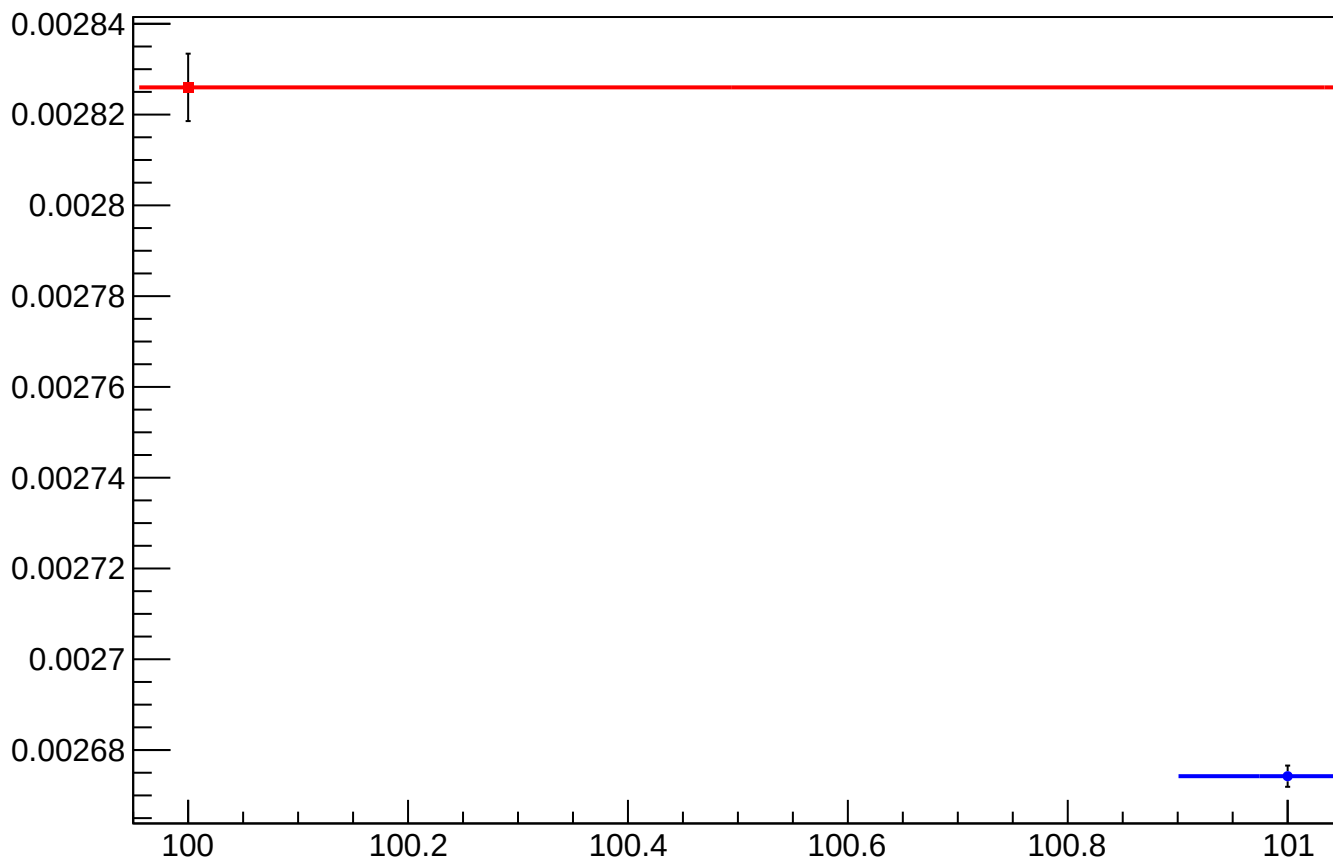
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.8/1

asym\_sam\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 380.0/1

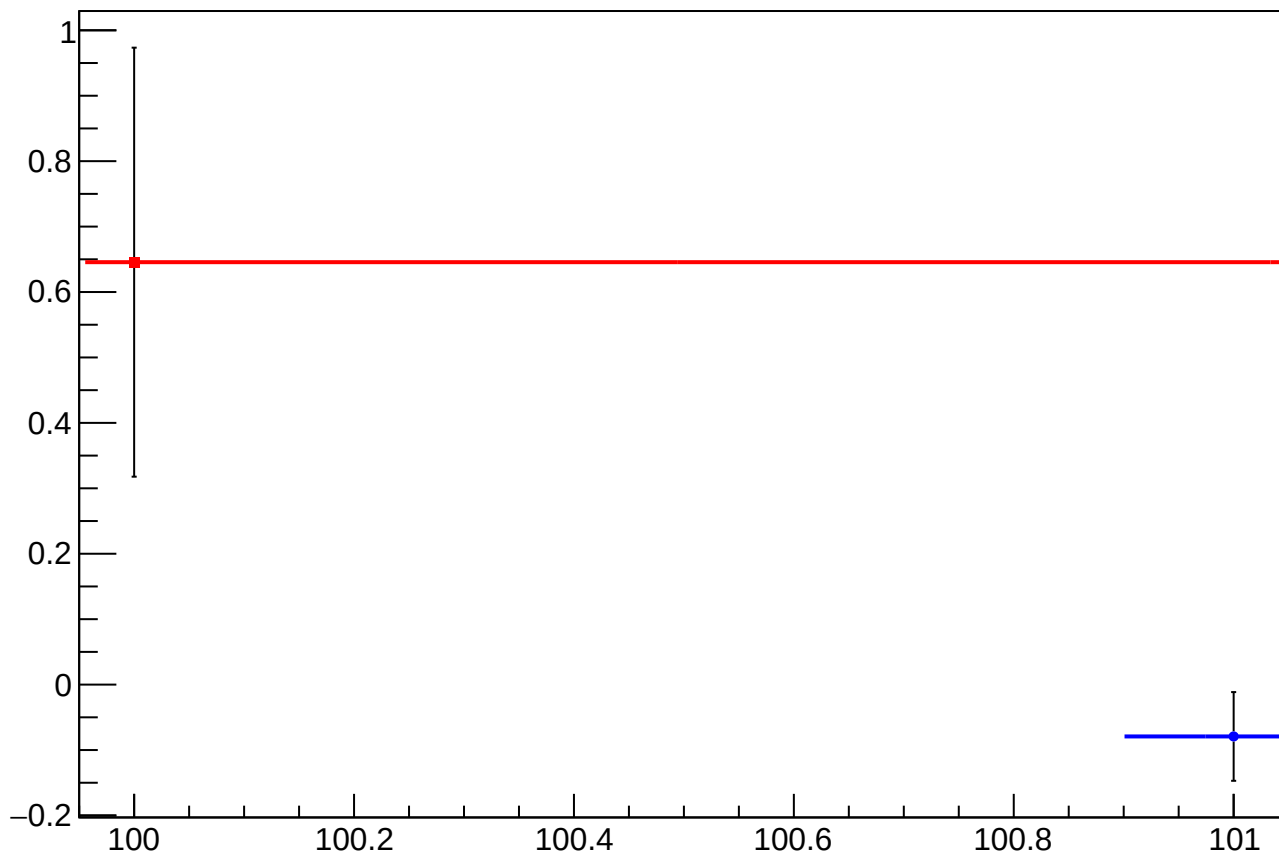
In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 380.0/1



asym\_sam\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.646+/-0.328  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

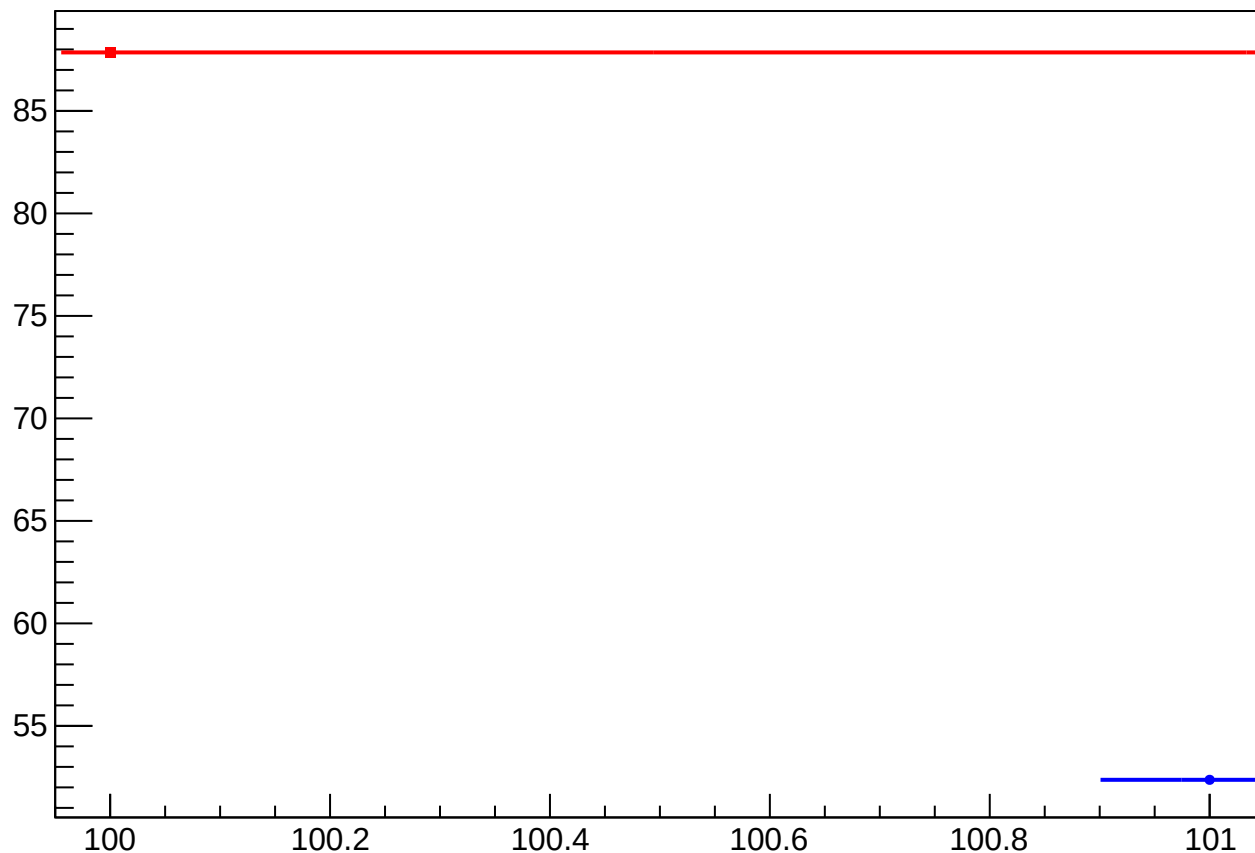
Right: -0.050+/-0.066  $\chi^2/\text{NDF}$ : 4.7/1

In: -0.079+/-0.068  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.050+/-0.066  $\chi^2/\text{NDF}$ : 4.7/1

asym\_sam\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 52.369+/-0.048  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 87.854+/-0.232  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

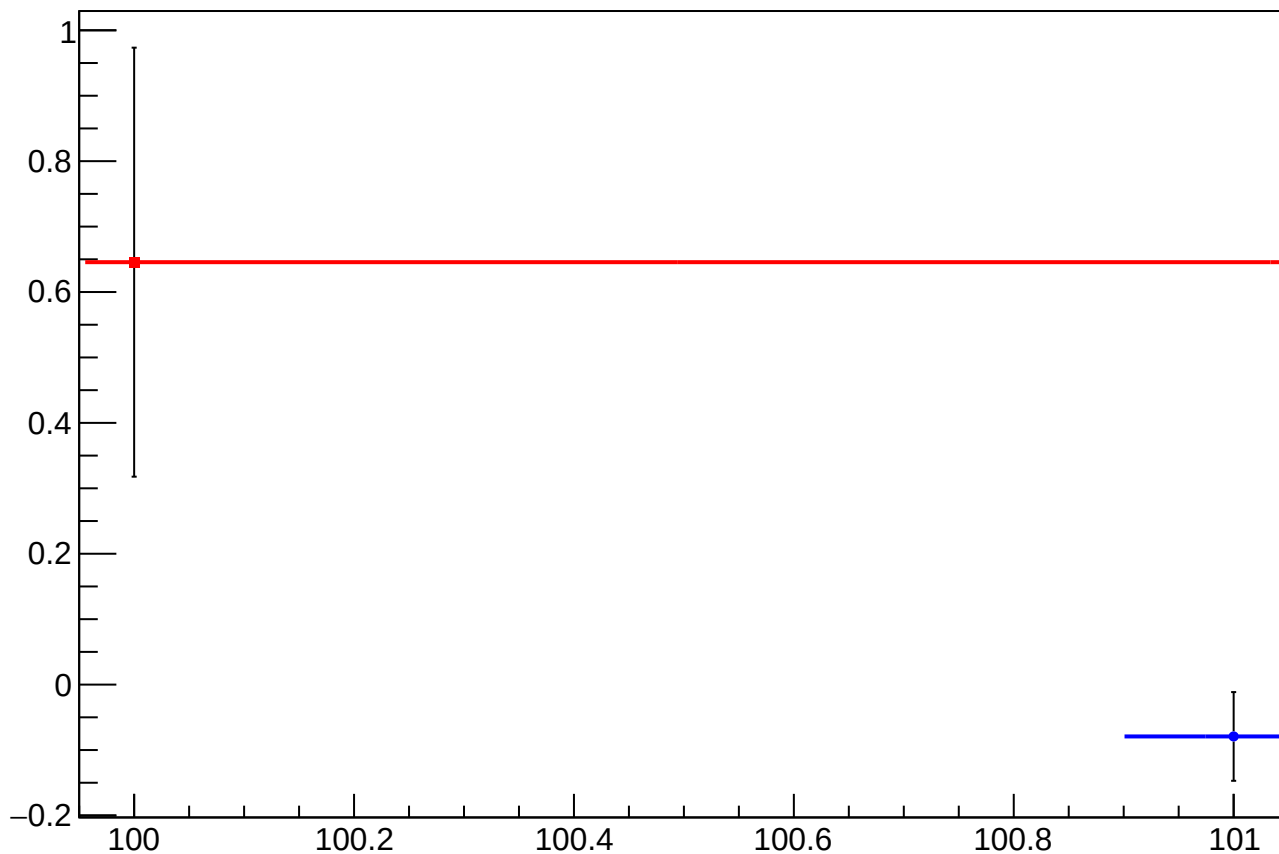
Right: 53.824+/-0.047  $\chi^2/\text{NDF}$ : 22470.7/1

In: 52.369+/-0.048  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.824+/-0.047  $\chi^2/\text{NDF}$ : 22470.7/1

asym\_sam\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.079 $\pm$ 0.068  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.646 $\pm$ 0.328  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

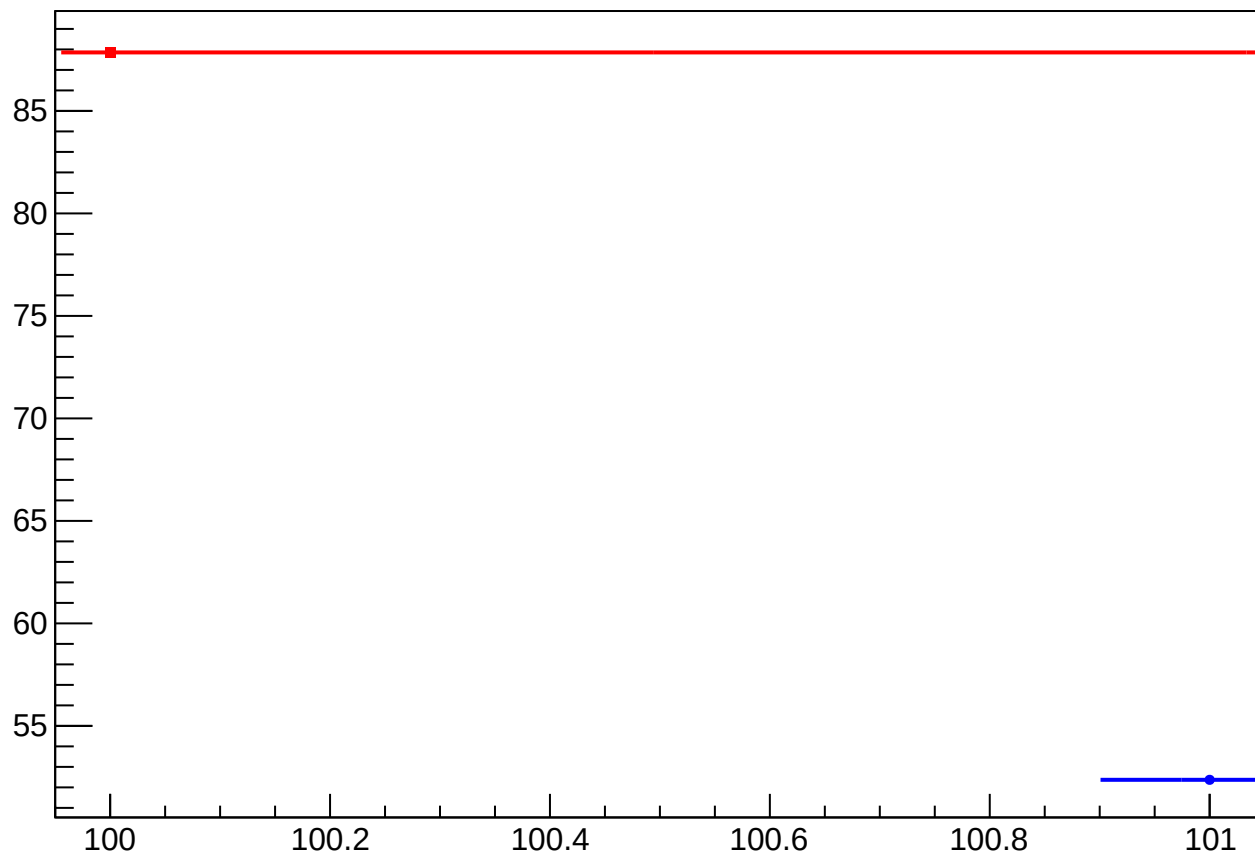
Right: -0.050 $\pm$ 0.066  $\chi^2$ /NDF: 4.7/1

In: -0.079 $\pm$ 0.068  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.050 $\pm$ 0.066  $\chi^2$ /NDF: 4.7/1

asym\_sam\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 52.369 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 87.854 $\pm$ 0.232  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

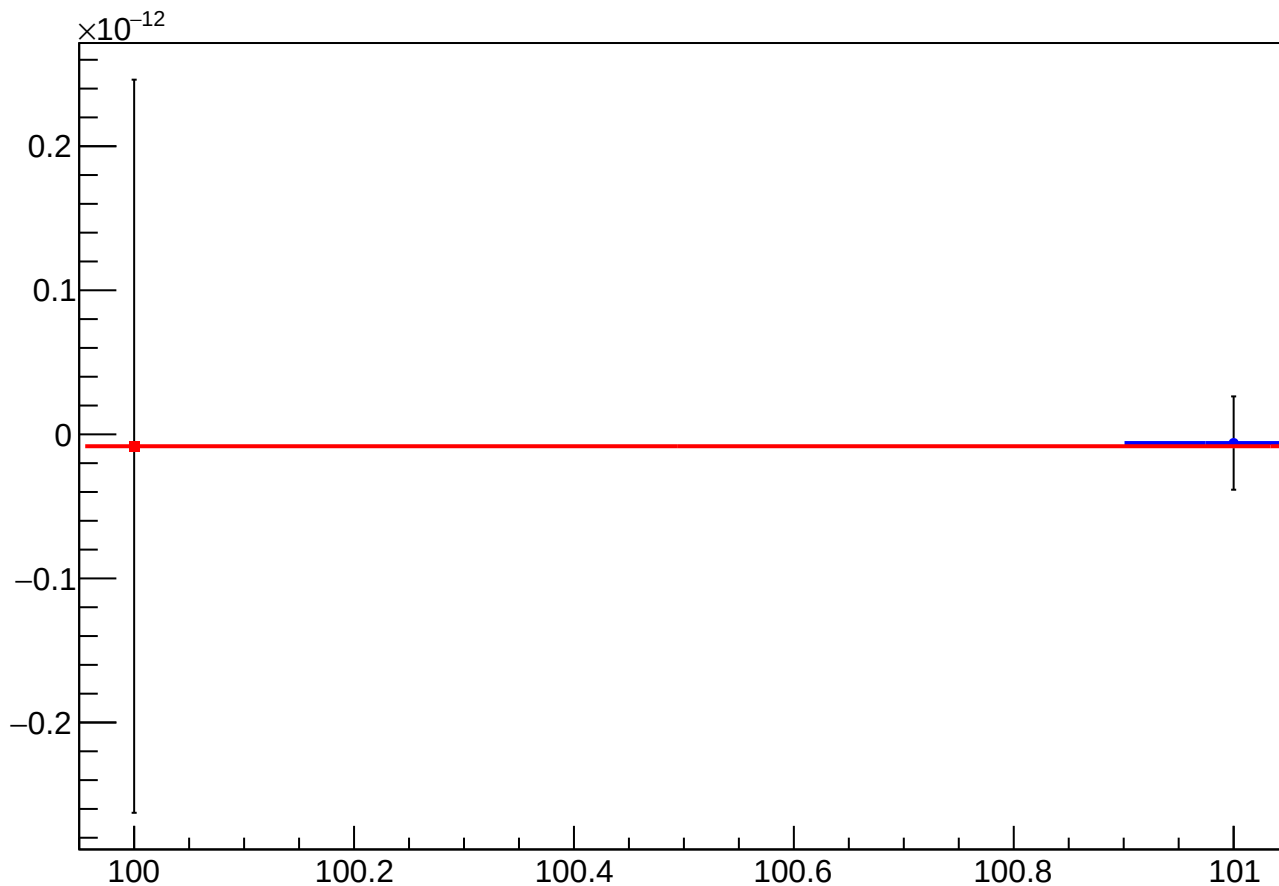
Right: 53.824 $\pm$ 0.047  $\chi^2$ /NDF: 22470.7/1

In: 52.369 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.824 $\pm$ 0.047  $\chi^2$ /NDF: 22470.7/1

asym\_sam\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

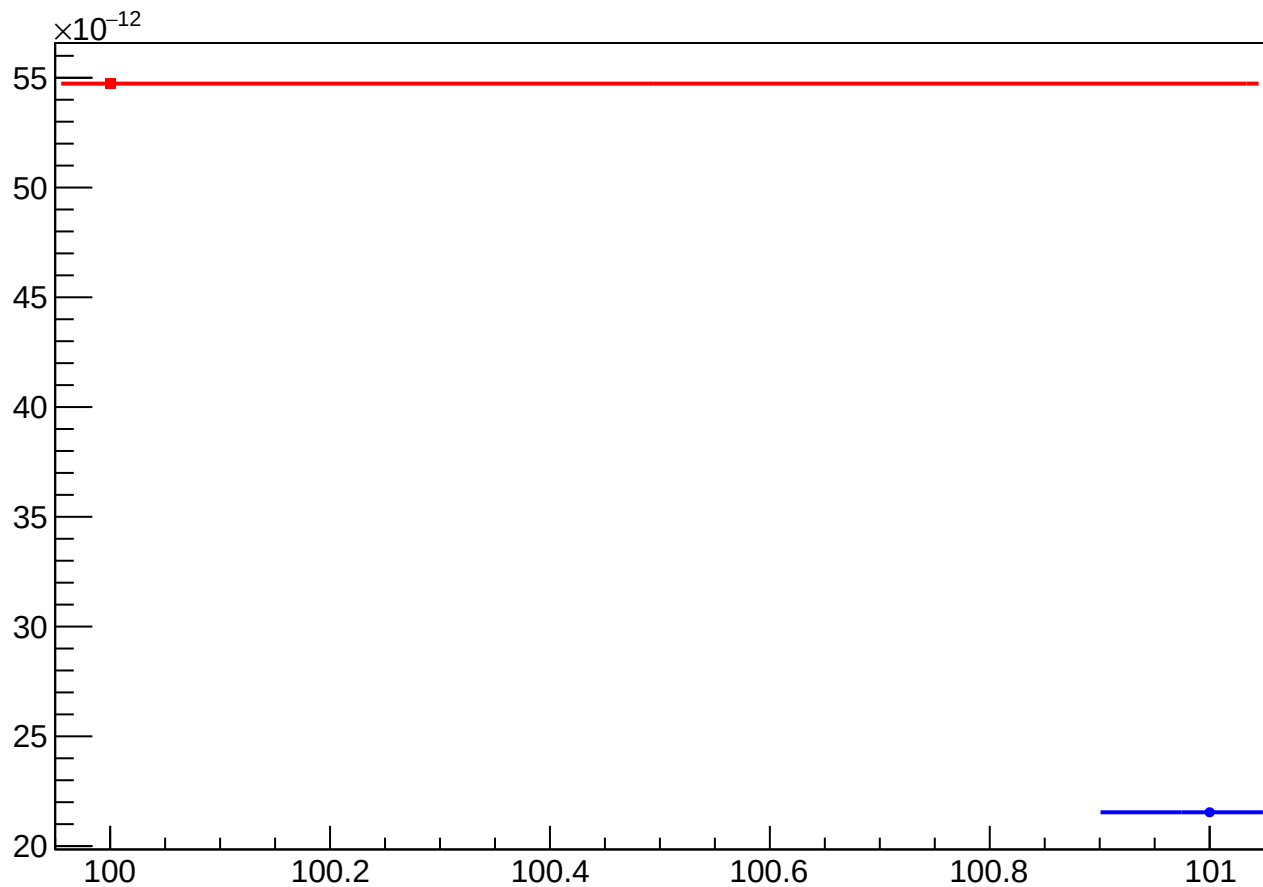
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

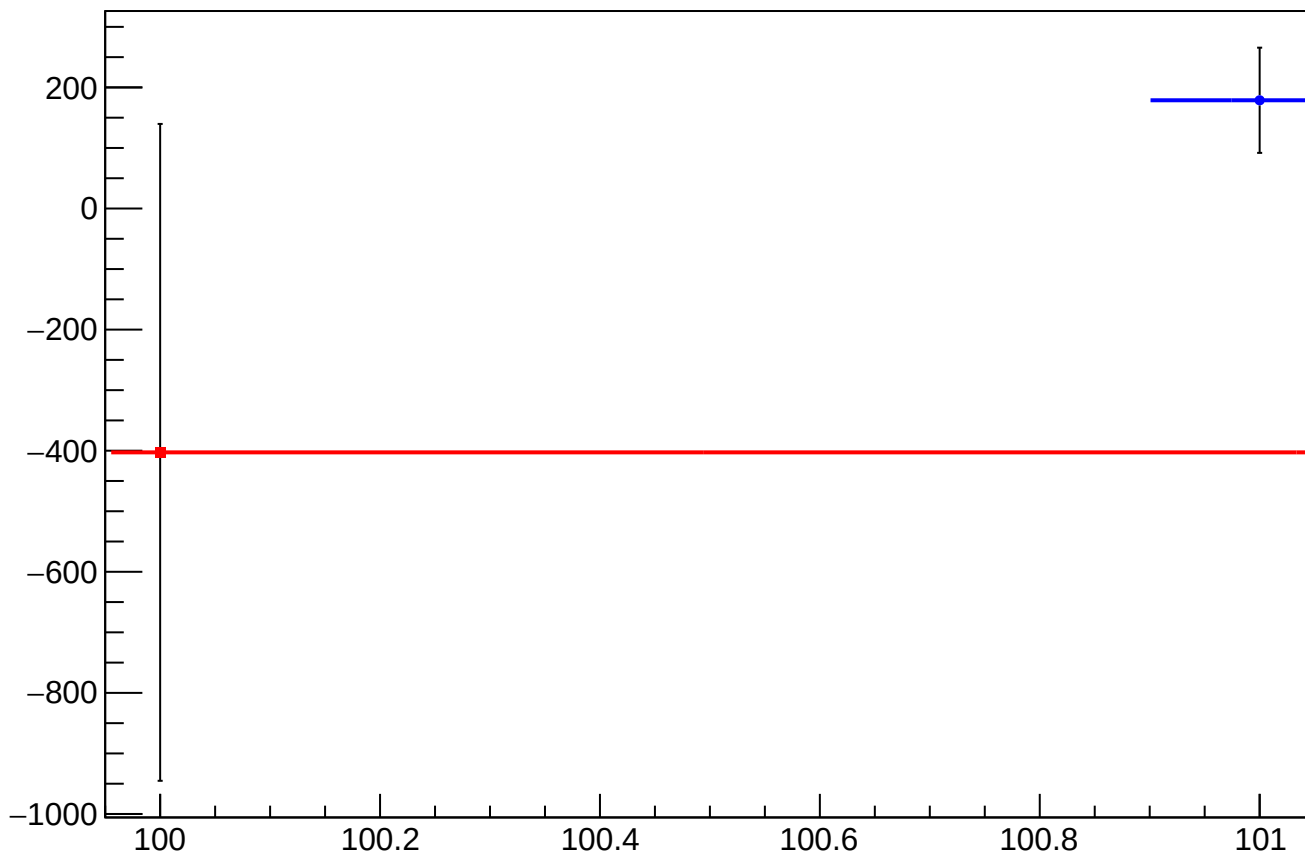
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33497.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33497.2/1

reg\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 178.766+/-86.880  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -402.752+/-542.442  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

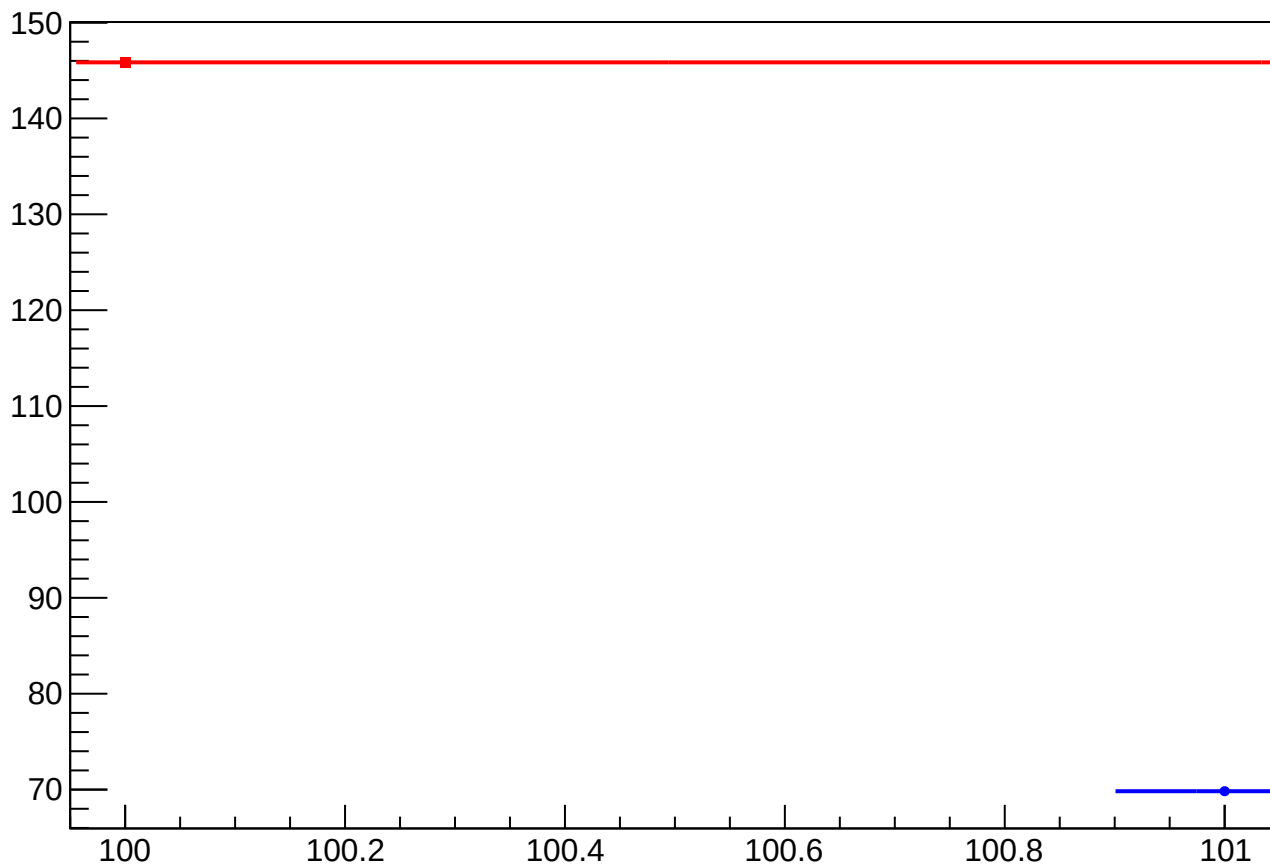
Right: 164.222+/-85.786  $\chi^2$ /NDF: 1.1/1

In: 178.766+/-86.880  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 164.222+/-85.786  $\chi^2$ /NDF: 1.1/1

reg\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 69.831+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 145.848+/-0.384  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 71.733+/-0.061  $\chi^2/\text{NDF}$ : 38295.1/1

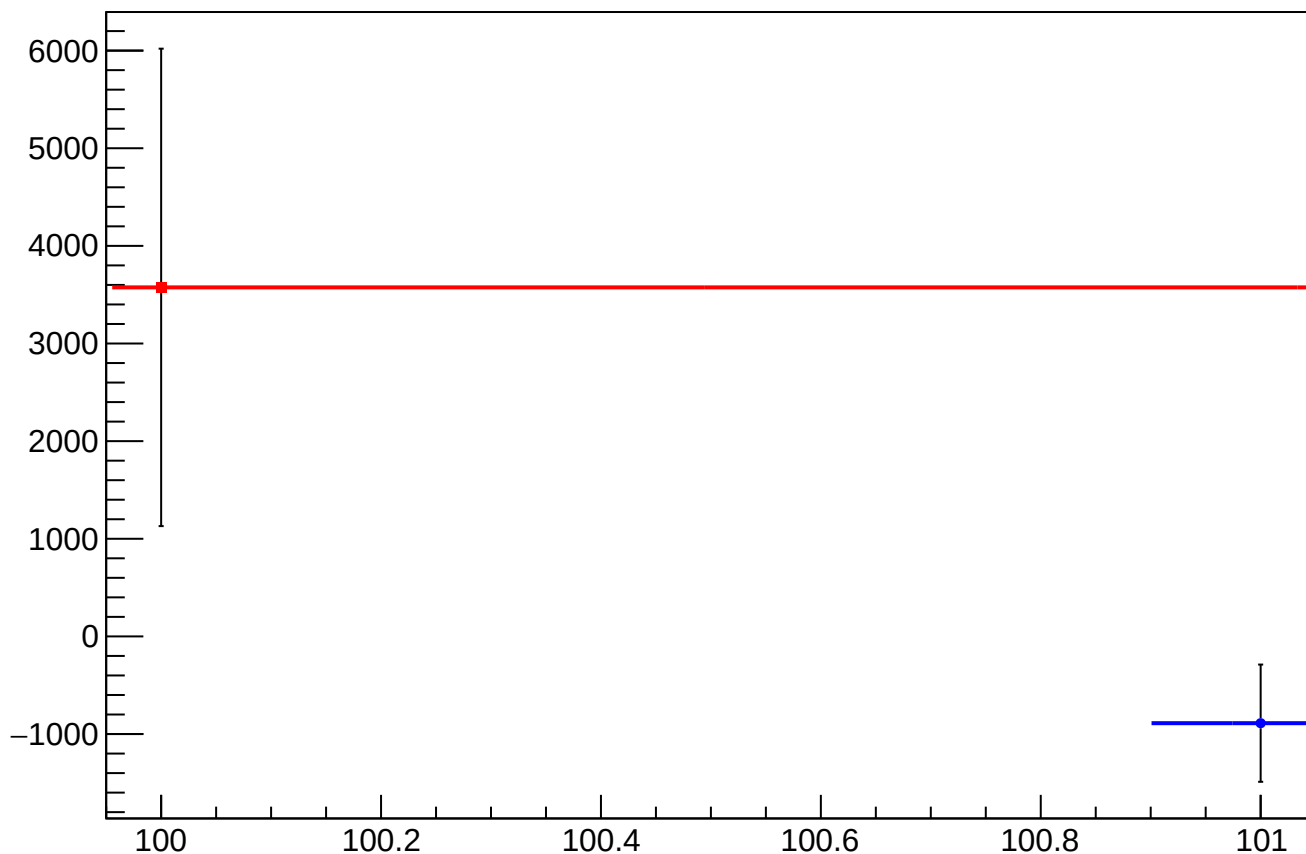
In: 69.831+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.733+/-0.061  $\chi^2/\text{NDF}$ : 38295.1/1



asym\_sam\_13\_57\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -888.777+/-600.392  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3574.838+/-2445.028  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

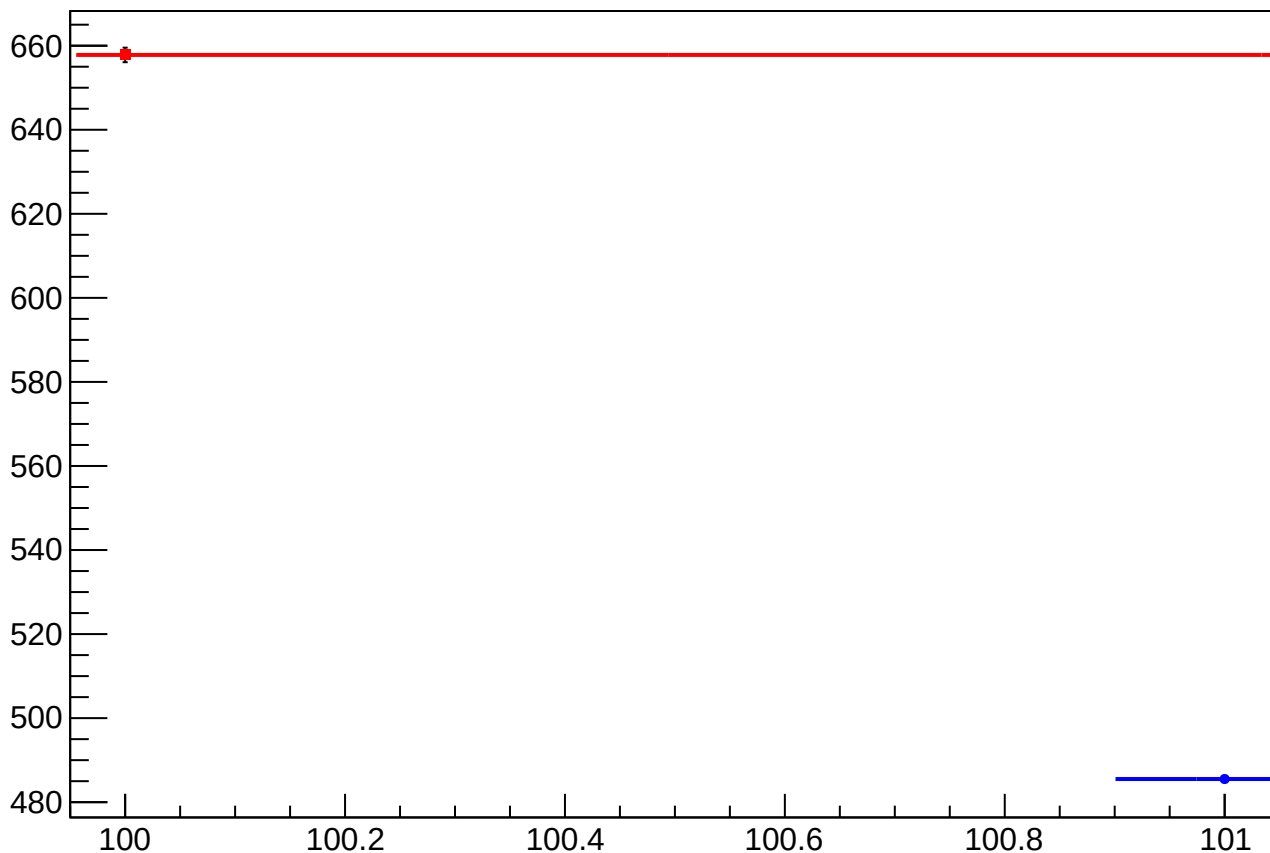
Right: -634.936+/-583.071  $\chi^2/\text{NDF}$ : 3.1/1

In: -888.777+/-600.392  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -634.936+/-583.071  $\chi^2/\text{NDF}$ : 3.1/1

asym\_sam\_13\_57\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 485.515 $\pm$ 0.425  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 657.804 $\pm$ 1.729  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 495.312 $\pm$ 0.412  $\chi^2$ /NDF: 9365.9/1

In: 485.515 $\pm$ 0.425  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 495.312 $\pm$ 0.412  $\chi^2$ /NDF: 9365.9/1

cor\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 178.761 $\pm$ 86.880  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -402.750 $\pm$ 542.442  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 164.217 $\pm$ 85.786  $\chi^2$ /NDF: 1.1/1

In: 178.761 $\pm$ 86.880  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 164.217 $\pm$ 85.786  $\chi^2$ /NDF: 1.1/1

cor\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 69.832 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 145.848 $\pm$ 0.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

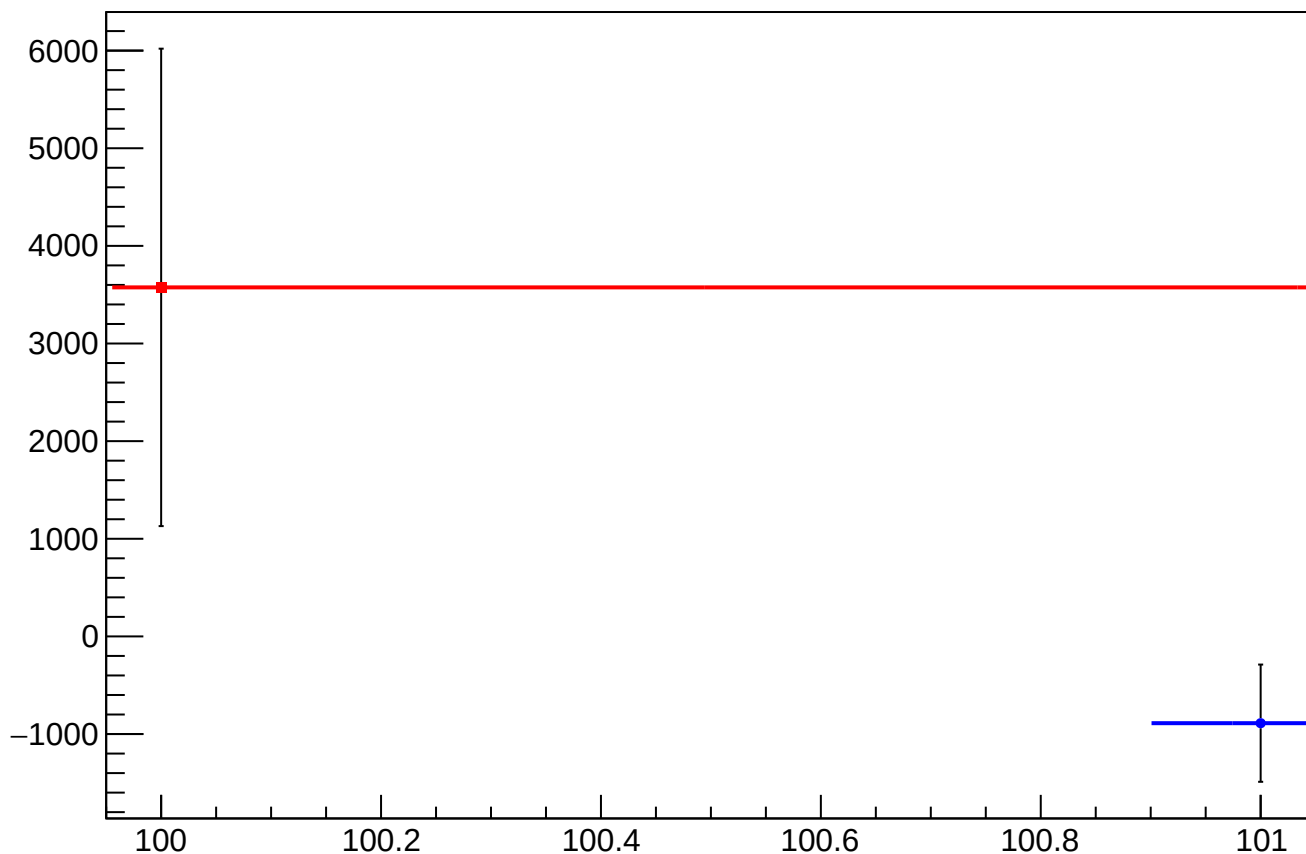
Right: 71.733 $\pm$ 0.061  $\chi^2$ /NDF: 38295.1/1

In: 69.832 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 71.733 $\pm$ 0.061  $\chi^2$ /NDF: 38295.1/1

asym\_sam\_13\_57\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -888.763+/-600.394  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3574.837+/-2445.029  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

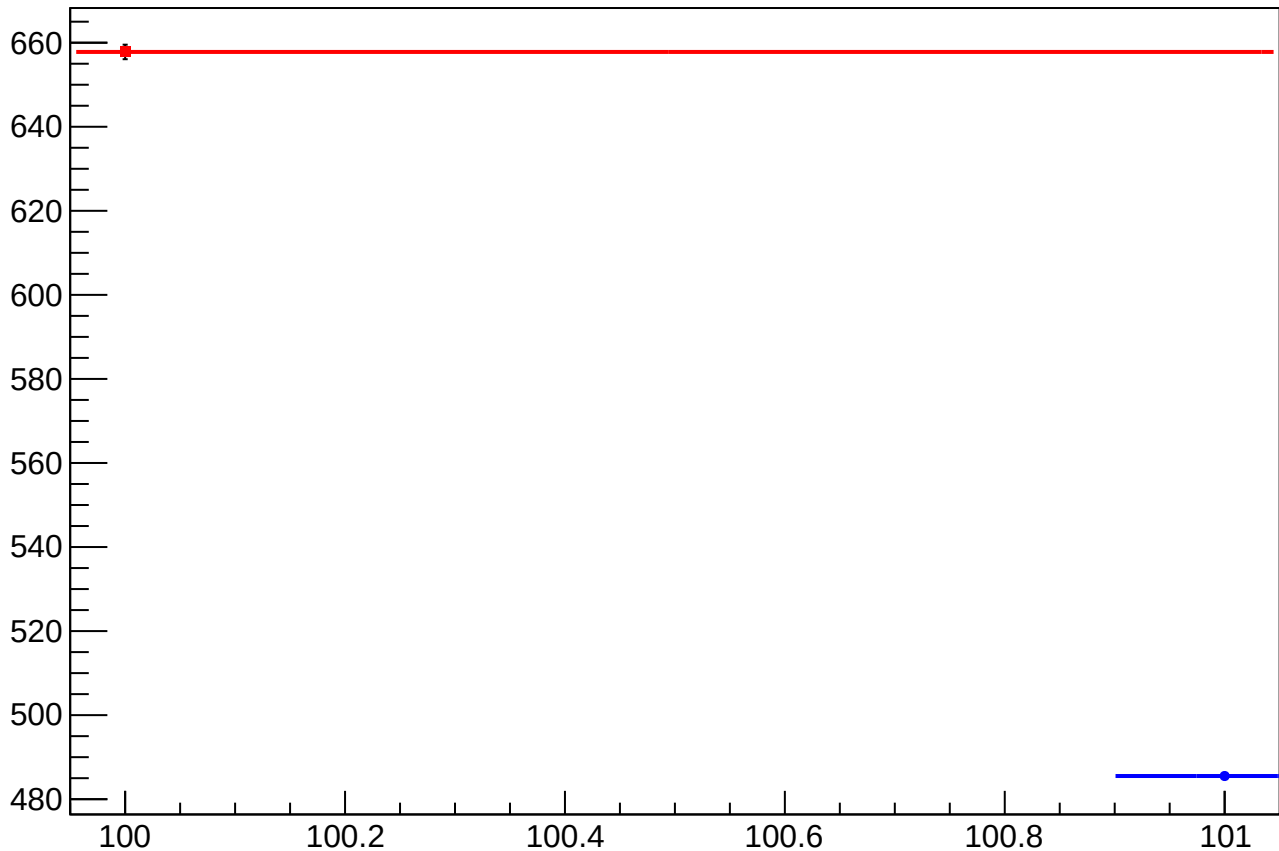
Right: -634.922+/-583.072  $\chi^2/\text{NDF}$ : 3.1/1

In: -888.763+/-600.394  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -634.922+/-583.072  $\chi^2/\text{NDF}$ : 3.1/1

asym\_sam\_13\_57\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 485.516+/-0.425  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 657.804+/-1.729  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 495.314+/-0.412  $\chi^2/\text{NDF}$ : 9365.8/1

In: 485.516+/-0.425  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 495.314+/-0.412  $\chi^2/\text{NDF}$ : 9365.8/1

eigen\_cor\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 178.761+/-86.880  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -402.750+/-542.442  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

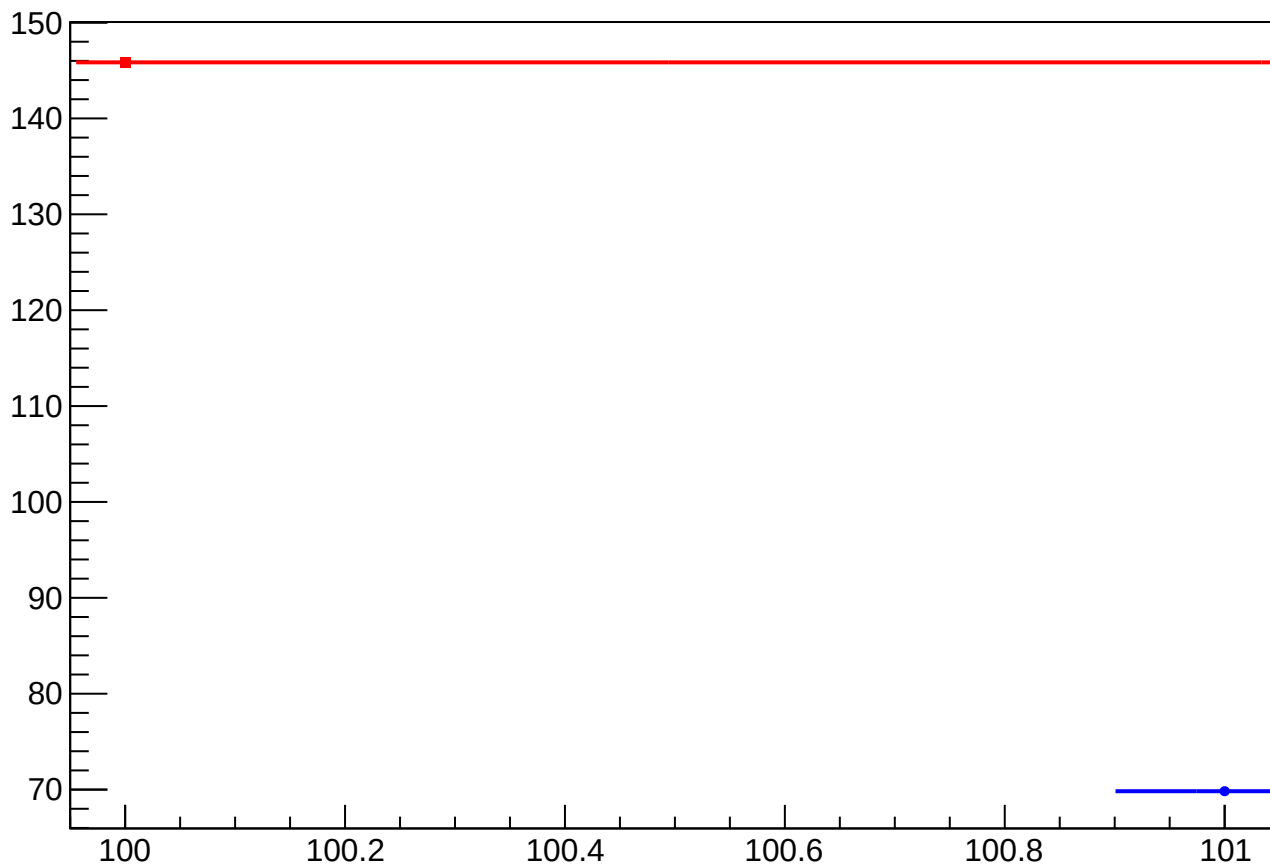
Right: 164.217+/-85.786  $\chi^2/\text{NDF}$ : 1.1/1

In: 178.761+/-86.880  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 164.217+/-85.786  $\chi^2/\text{NDF}$ : 1.1/1

eigen\_cor\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 69.832 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 145.848 $\pm$ 0.384  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 71.733 $\pm$ 0.061  $\chi^2$ /NDF: 38295.1/1

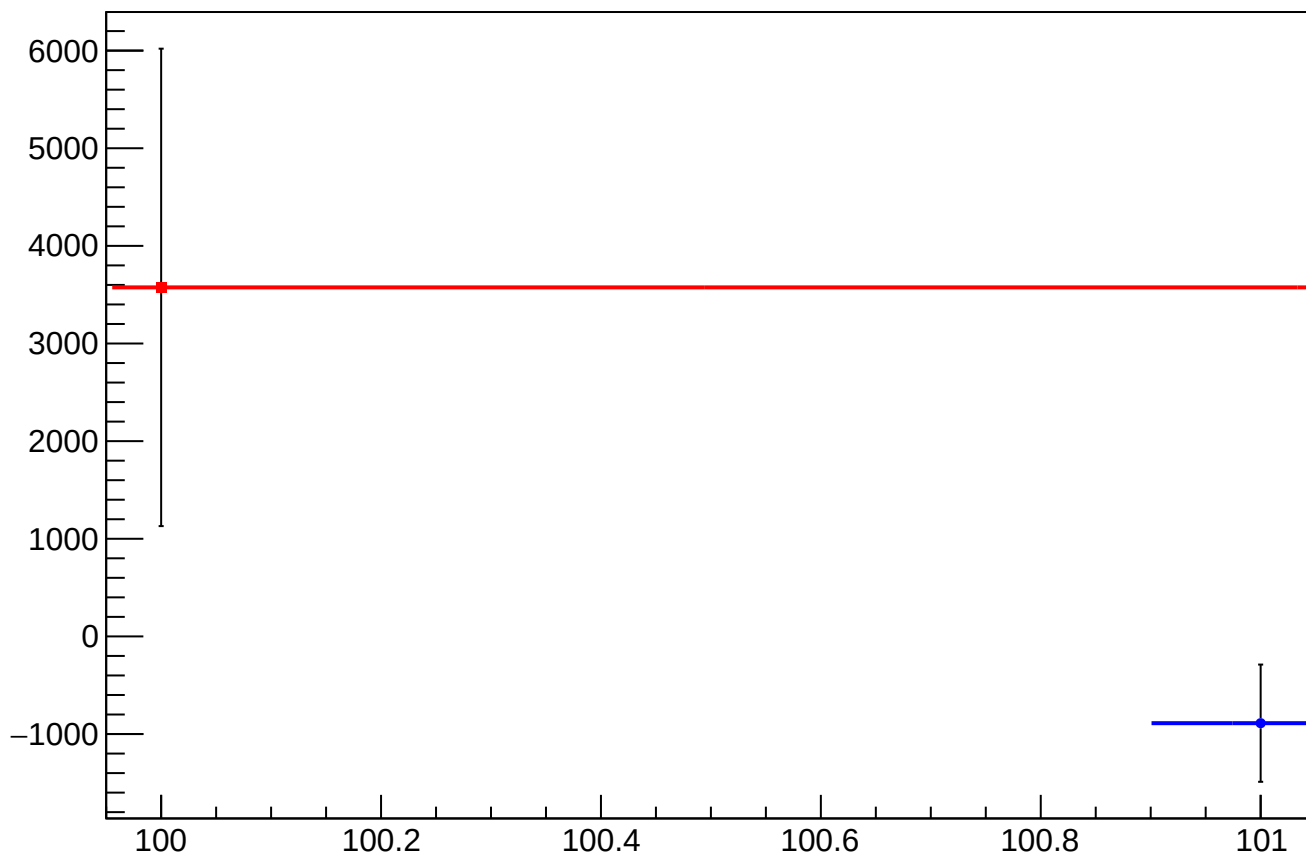
In: 69.832 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 71.733 $\pm$ 0.061  $\chi^2$ /NDF: 38295.1/1



asym\_sam\_13\_57\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -888.763+/-600.394  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3574.837+/-2445.029  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

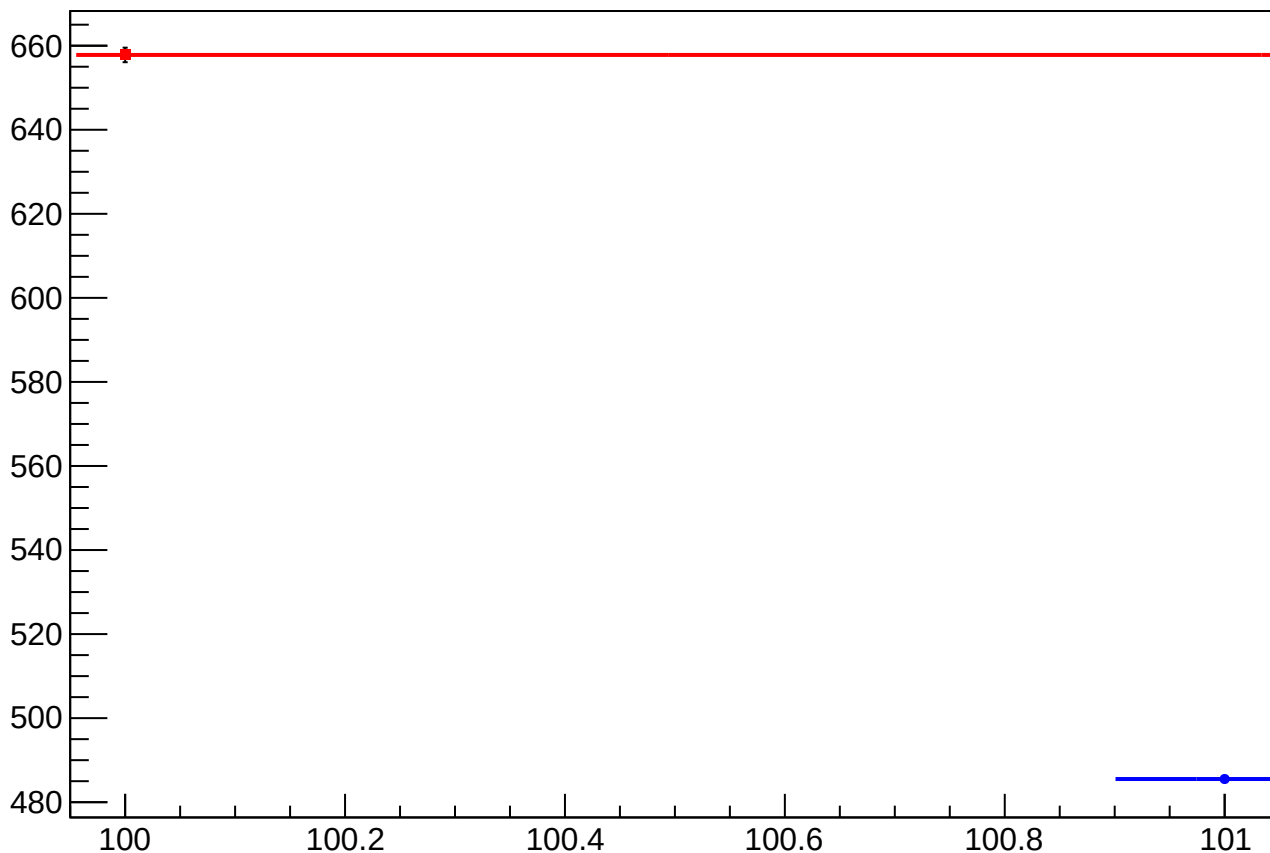
Right: -634.922+/-583.072  $\chi^2/\text{NDF}$ : 3.1/1

In: -888.763+/-600.394  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -634.922+/-583.072  $\chi^2/\text{NDF}$ : 3.1/1

asym\_sam\_13\_57\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 485.516 $\pm$ 0.425  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 657.804 $\pm$ 1.729  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

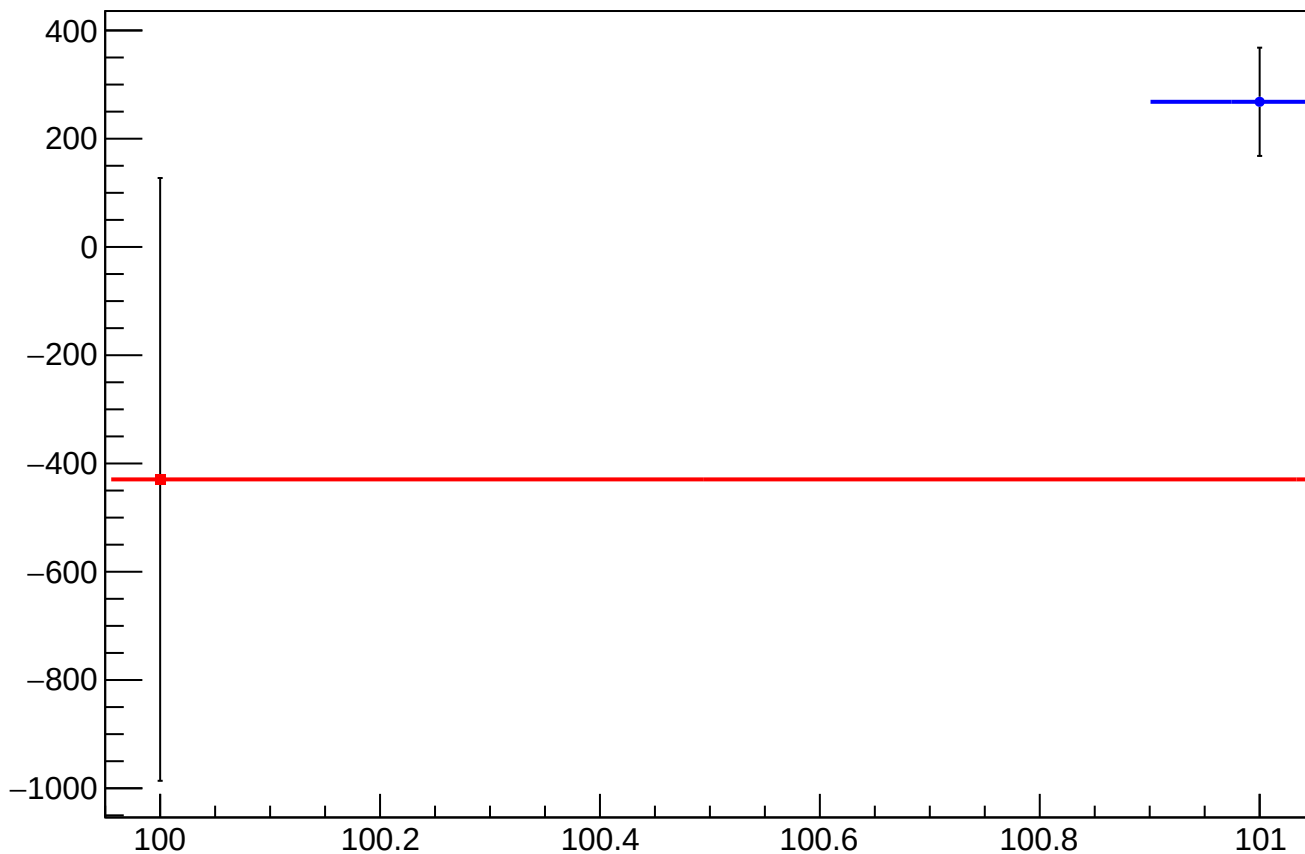
Right: 495.314 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 9365.8/1

In: 485.516 $\pm$ 0.425  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 495.314 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 9365.8/1

dit\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 268.162 $\pm$ 99.996  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -429.400 $\pm$ 556.797  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

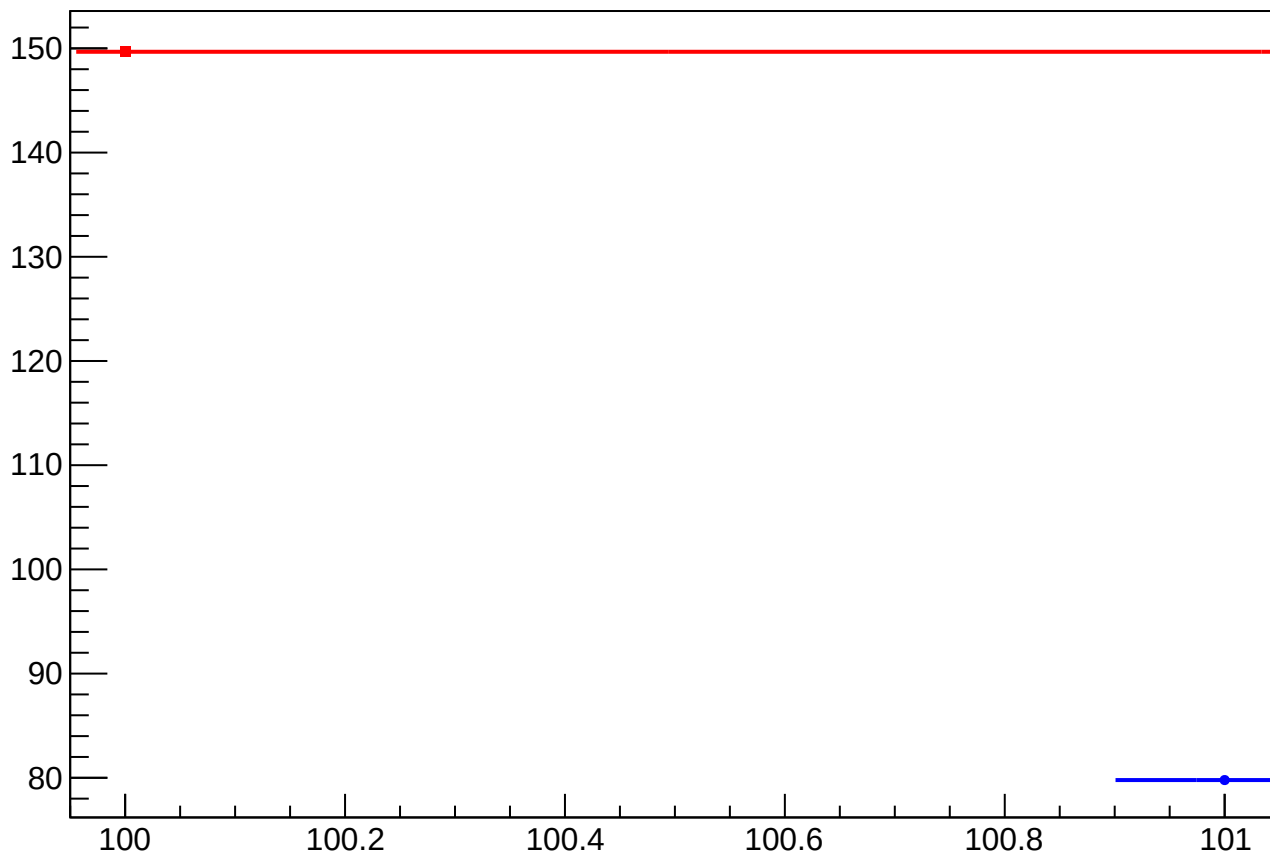
Right: 246.366 $\pm$ 98.422  $\chi^2$ /NDF: 1.5/1

In: 268.162 $\pm$ 99.996  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 246.366 $\pm$ 98.422  $\chi^2$ /NDF: 1.5/1

dit\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 79.783 $\pm$ 0.071  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 149.675 $\pm$ 0.394  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

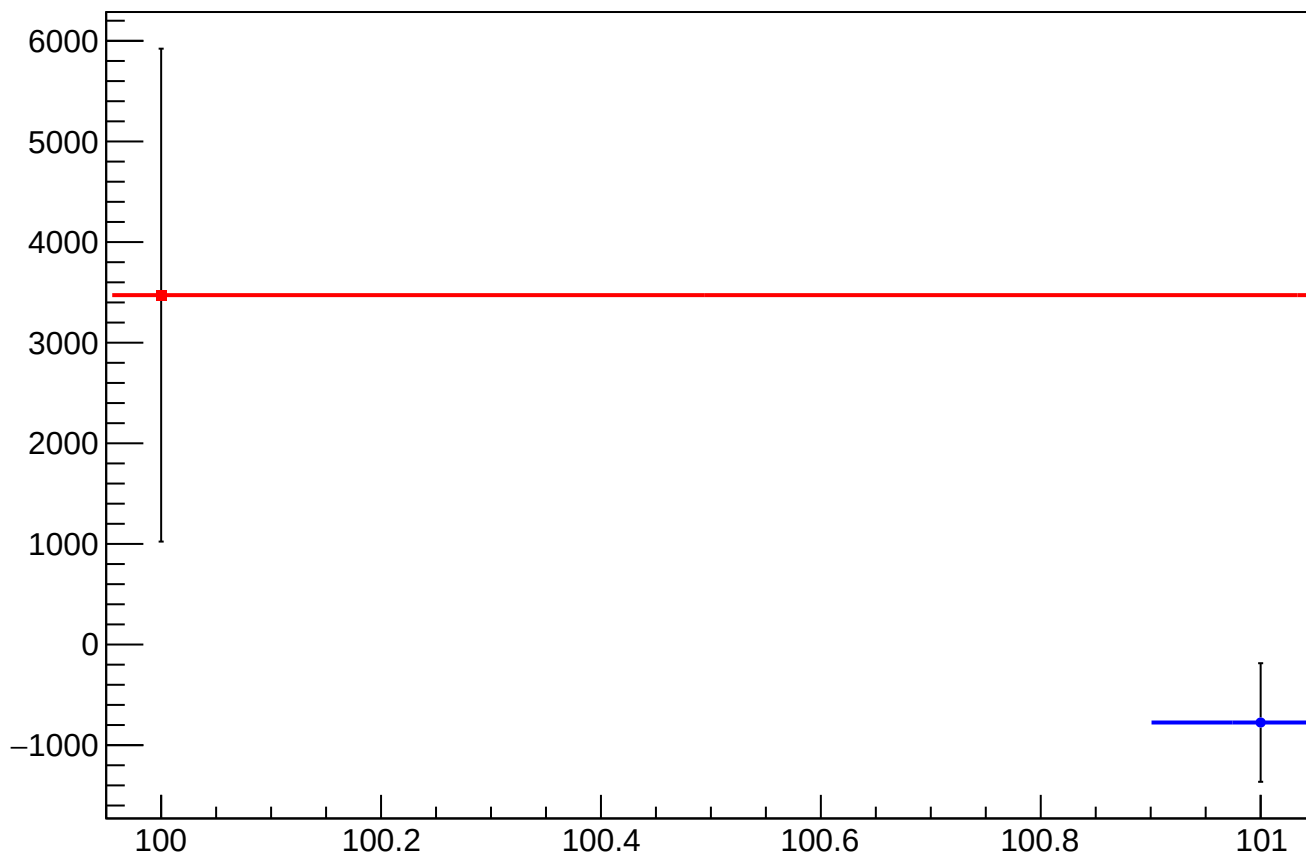
Right: 81.966 $\pm$ 0.070  $\chi^2$ /NDF: 30528.6/1

In: 79.783 $\pm$ 0.071  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 81.966 $\pm$ 0.070  $\chi^2$ /NDF: 30528.6/1

asym\_sam\_13\_57\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -774.926+/-589.323  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3472.699+/-2449.532  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

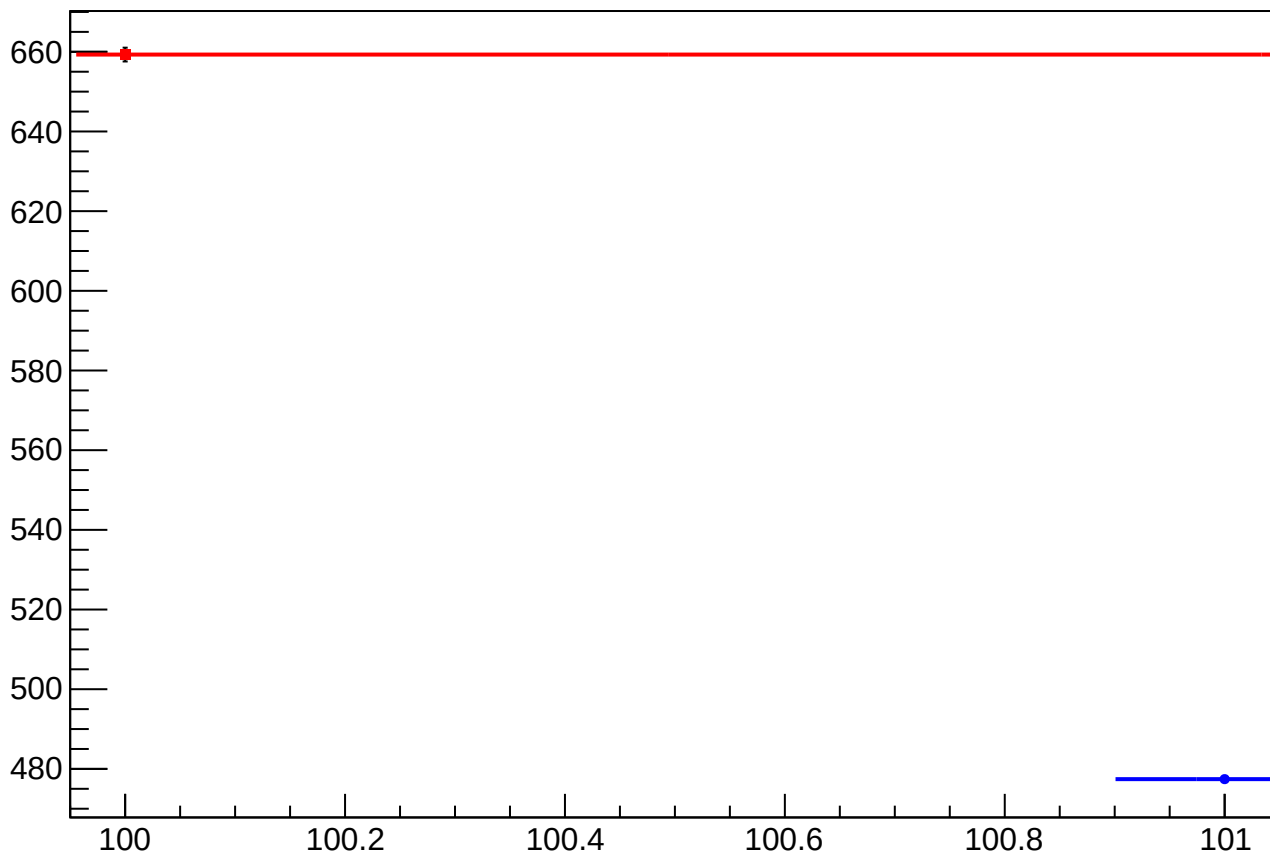
Right: -542.518+/-572.974  $\chi^2$ /NDF: 2.8/1

In: -774.926+/-589.323  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -542.518+/-572.974  $\chi^2$ /NDF: 2.8/1

asym\_sam\_13\_57\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 477.427+/-0.417  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 659.304+/-1.732  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

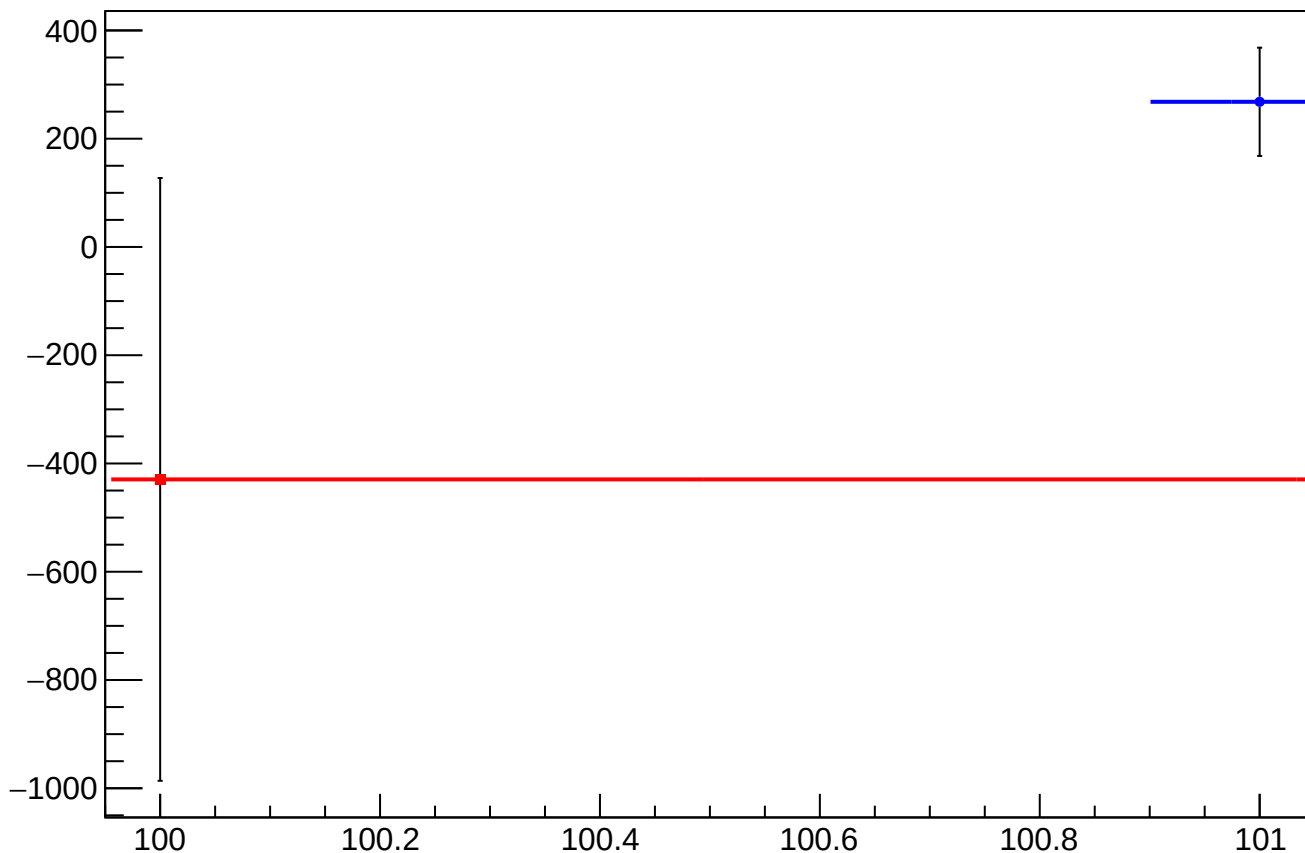
Right: 487.378+/-0.405  $\chi^2/\text{NDF}$ : 10422.8/1

In: 477.427+/-0.417  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 487.378+/-0.405  $\chi^2/\text{NDF}$ : 10422.8/1

eigen\_dit\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 268.167 $\pm$ 99.997  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -429.415 $\pm$ 556.797  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

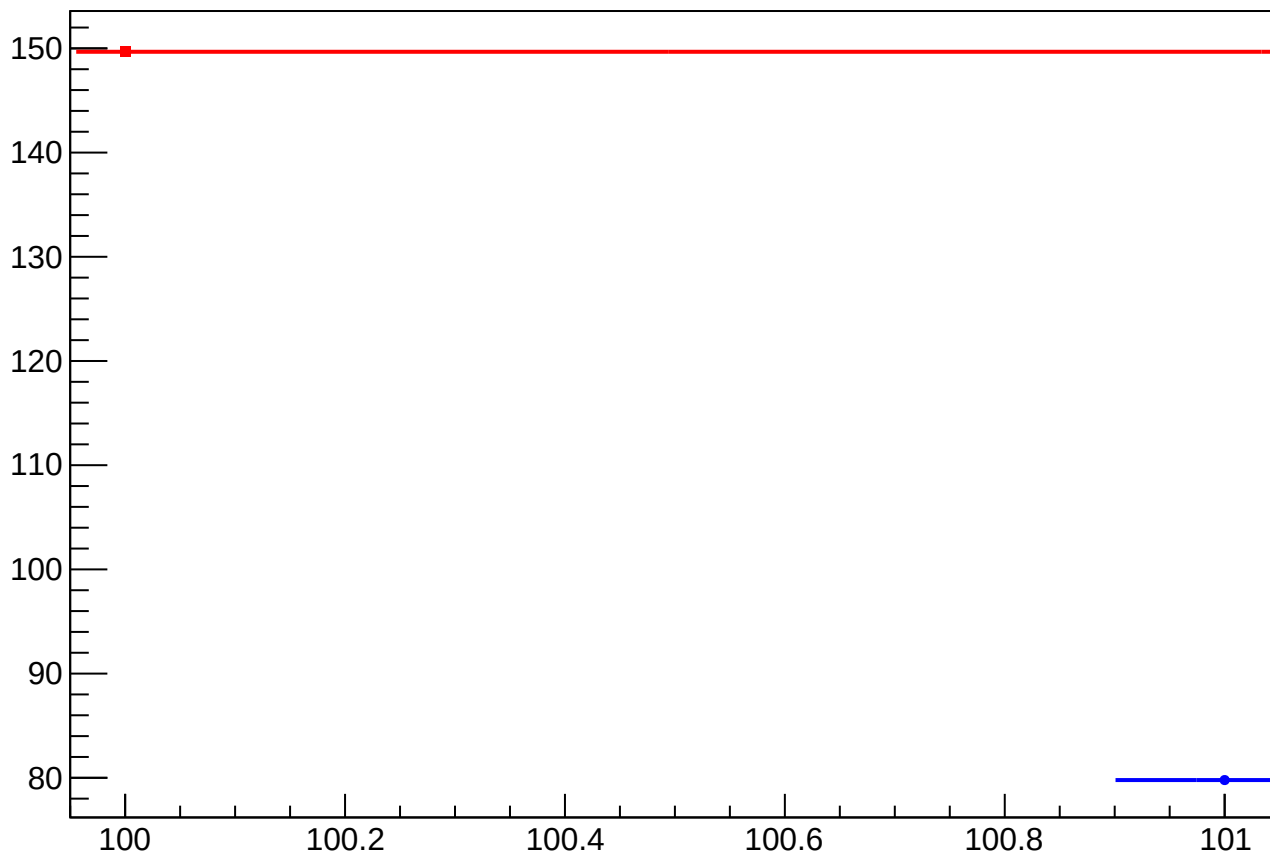
Right: 246.370 $\pm$ 98.422  $\chi^2/\text{NDF}$ : 1.5/1

In: 268.167 $\pm$ 99.997  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 246.370 $\pm$ 98.422  $\chi^2/\text{NDF}$ : 1.5/1

eigen\_dit\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 79.783+/-0.071  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 149.675+/-0.394  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 81.967+/-0.070  $\chi^2/\text{NDF}$ : 30528.3/1

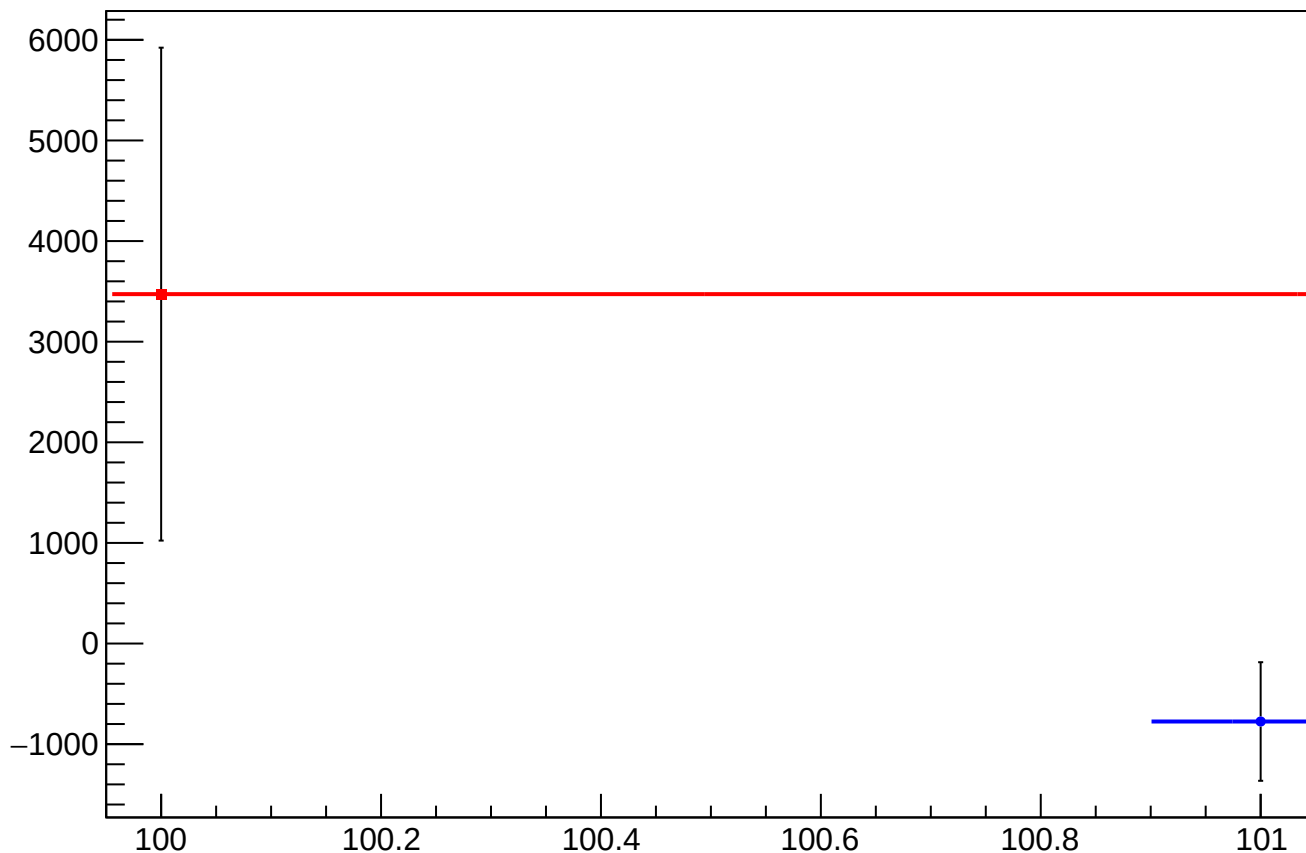
In: 79.783+/-0.071  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 81.967+/-0.070  $\chi^2/\text{NDF}$ : 30528.3/1



asym\_sam\_13\_57\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -774.922+/-589.321  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3472.679+/-2449.522  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

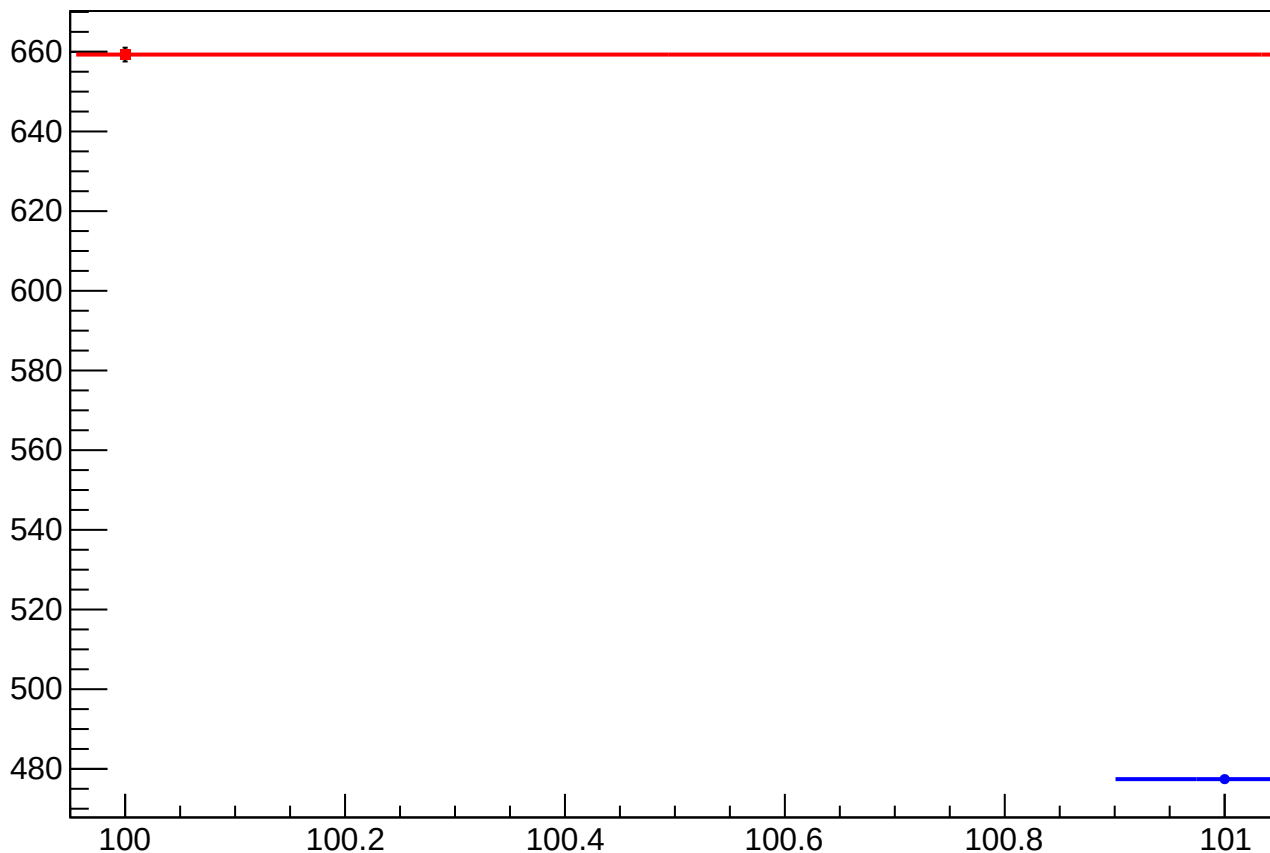
Right: -542.516+/-572.972  $\chi^2/\text{NDF}$ : 2.8/1

In: -774.922+/-589.321  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -542.516+/-572.972  $\chi^2/\text{NDF}$ : 2.8/1

asym\_sam\_13\_57\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 477.425+/-0.417  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 659.301+/-1.732  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

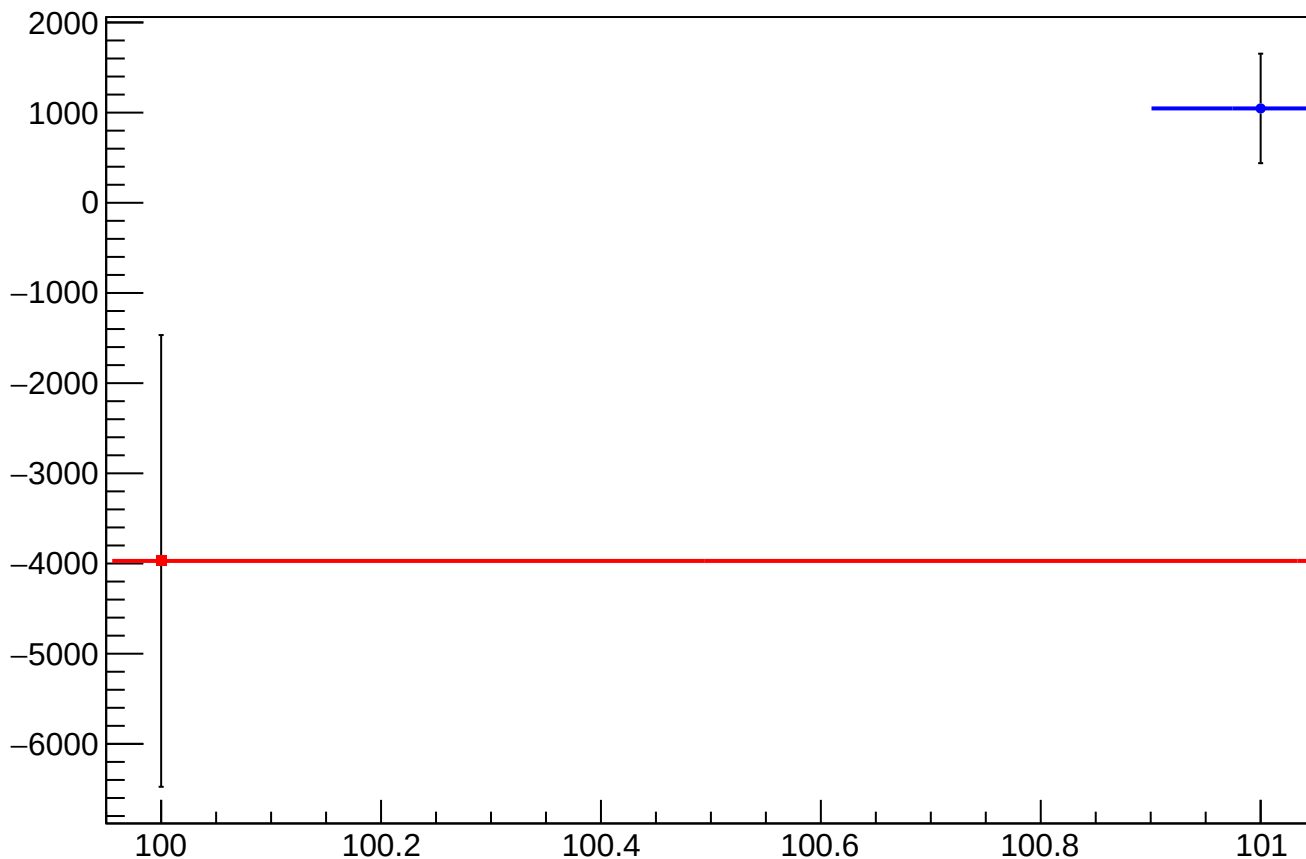
Right: 487.376+/-0.405  $\chi^2/\text{NDF}$ : 10422.7/1

In: 477.425+/-0.417  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 487.376+/-0.405  $\chi^2/\text{NDF}$ : 10422.7/1

asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 1046.411+/-607.191  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3971.249+/-2504.684  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

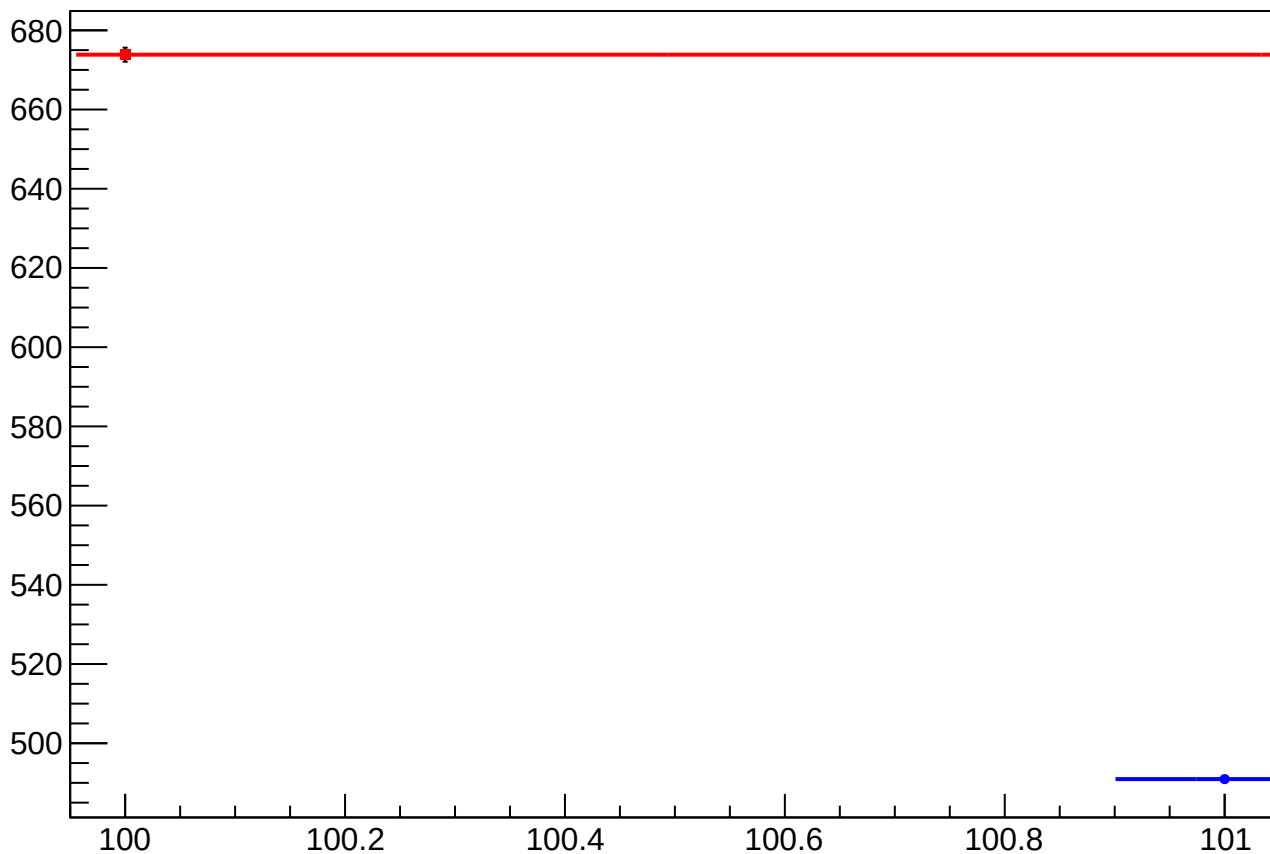
Right: 767.898+/-590.099  $\chi^2$ /NDF: 3.8/1

In: 1046.411+/-607.191  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 767.898+/-590.099  $\chi^2$ /NDF: 3.8/1

# asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 490.949 $\pm$ 0.429  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 673.847 $\pm$ 1.771  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

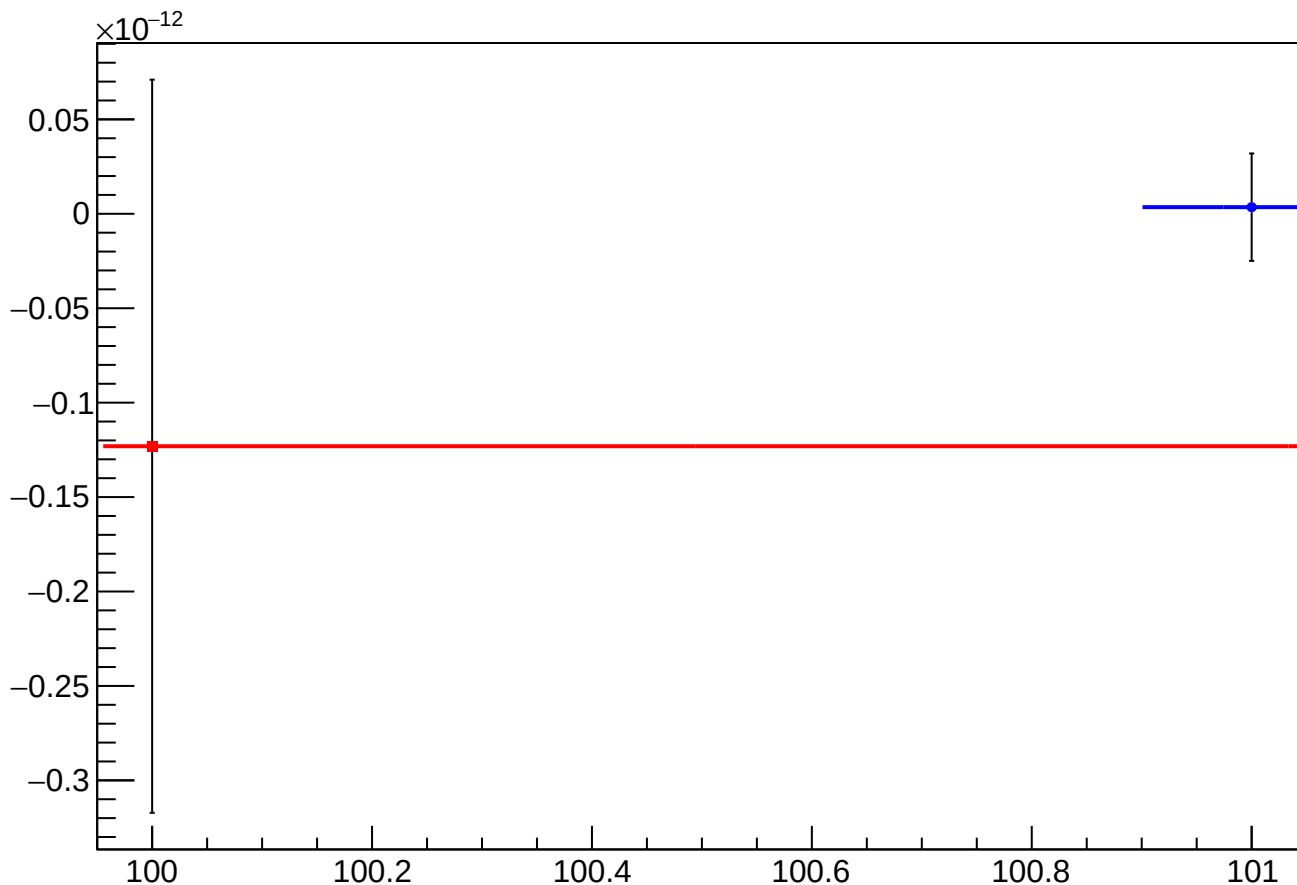
Right: 501.101 $\pm$ 0.417  $\chi^2$ /NDF: 10072.6/1

In: 490.949 $\pm$ 0.429  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 501.101 $\pm$ 0.417  $\chi^2$ /NDF: 10072.6/1

asym\_sam\_13\_57\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

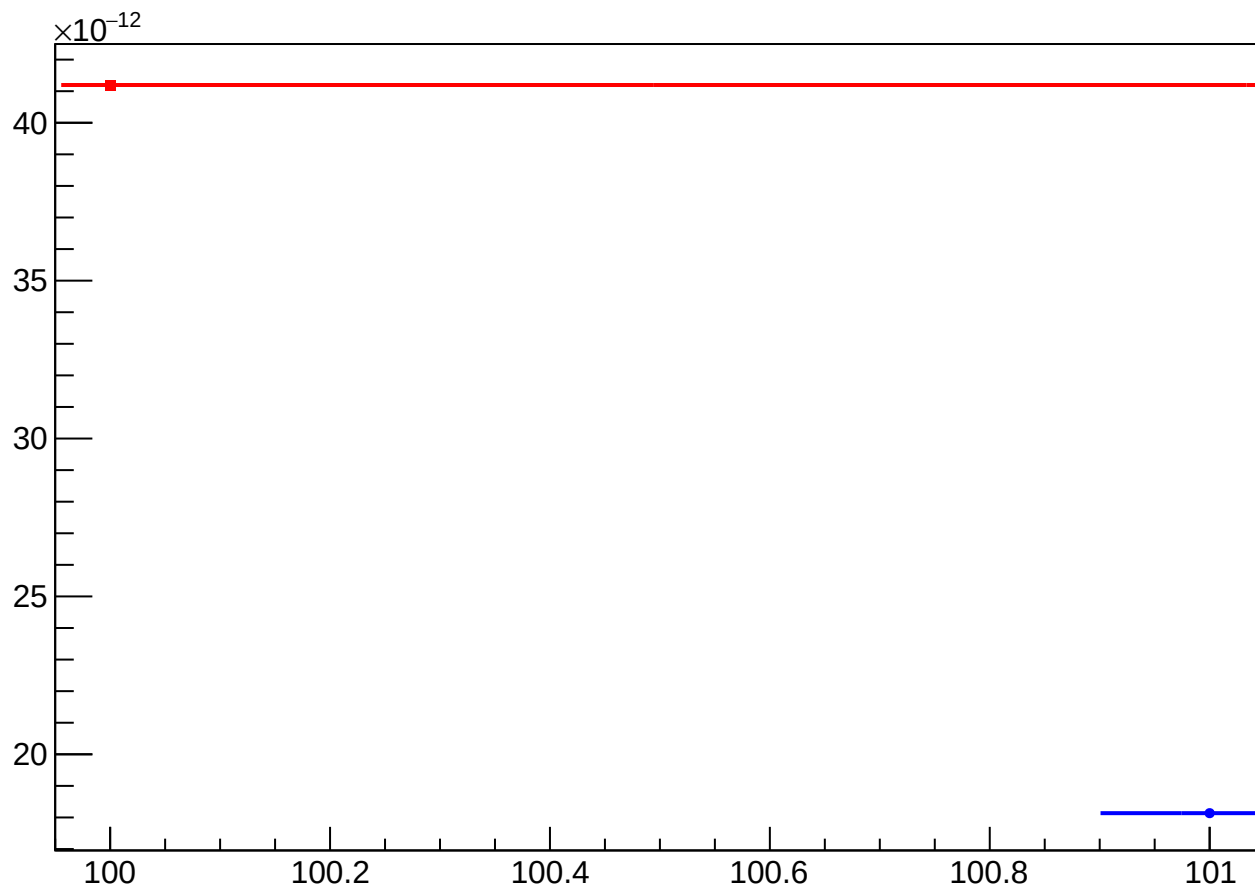
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.4/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.4/1

asym\_sam\_13\_57\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

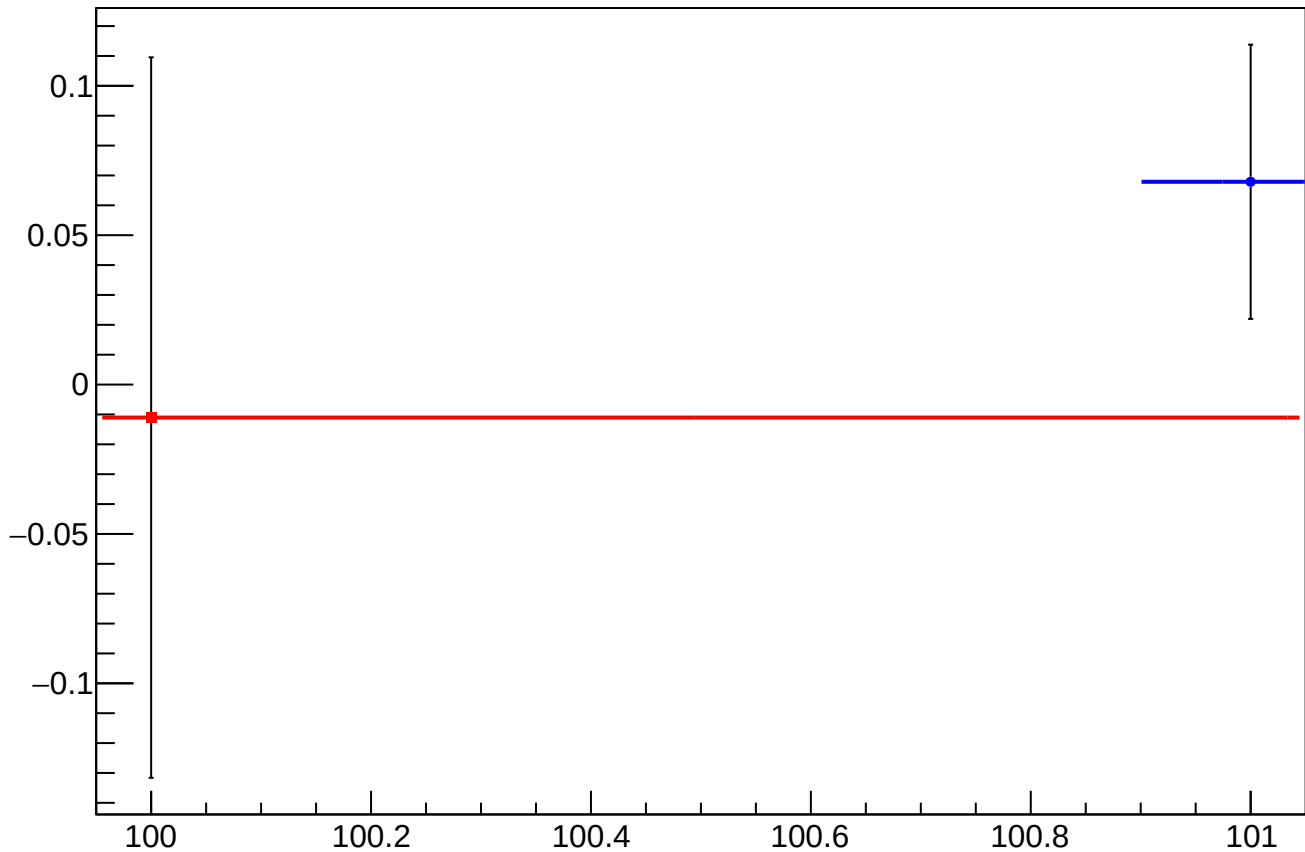
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27634.2/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 27634.2/1

asym\_sam\_13\_57\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.011 $\pm$ 0.121  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

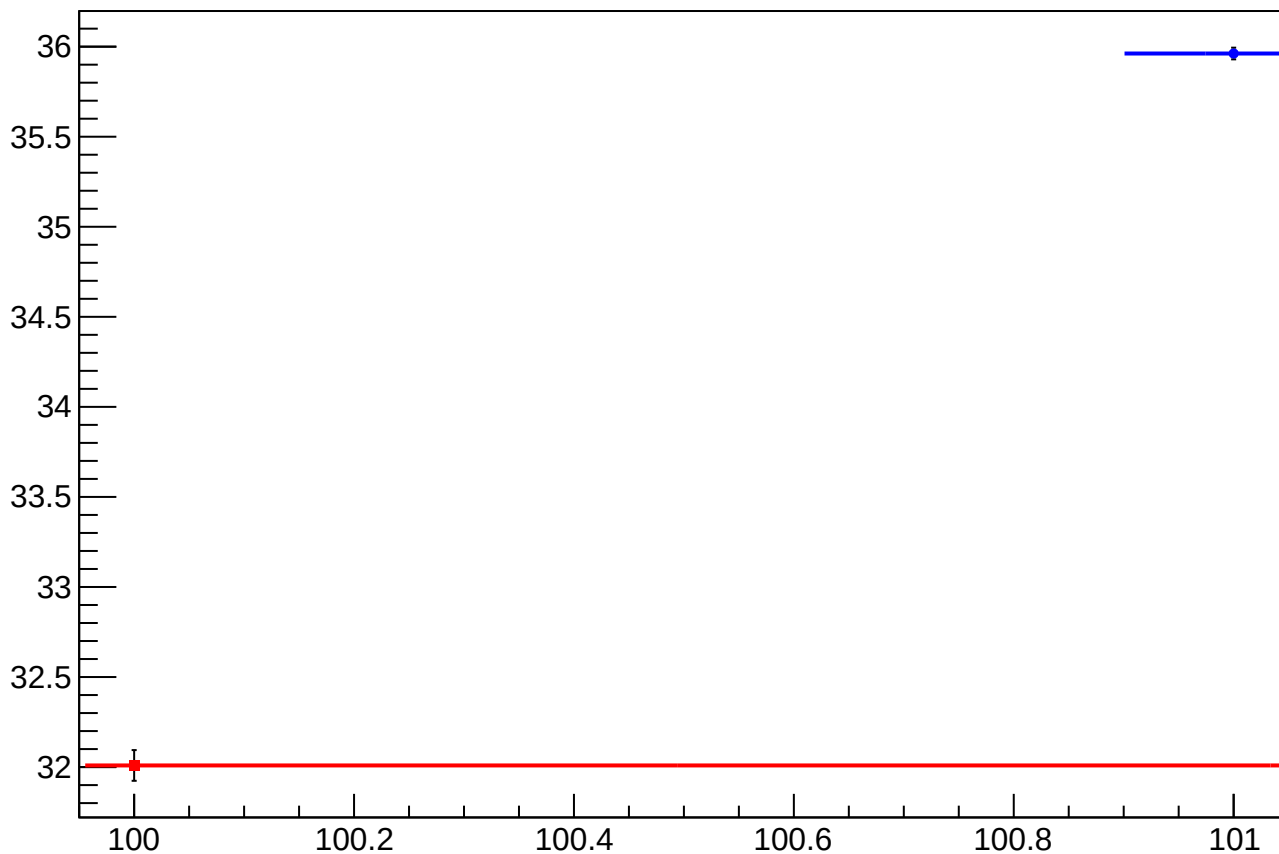
Right: 0.058 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 0.4/1

In: 0.068 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.058 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 0.4/1

asym\_sam\_13\_57\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 35.962 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 32.009 $\pm$ 0.085  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 35.462 $\pm$ 0.030  $\chi^2$ /NDF: 1877.3/1

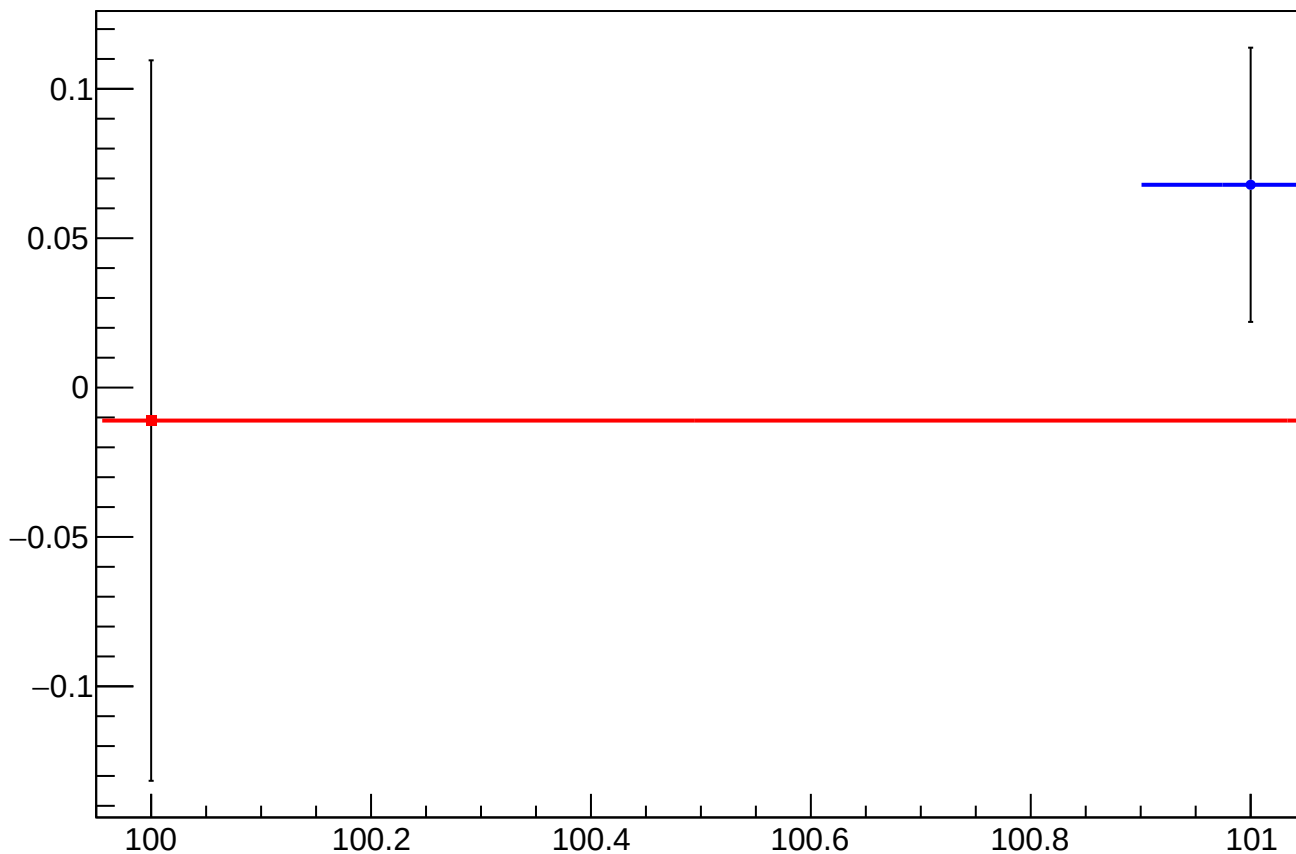
In: 35.962 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 35.462 $\pm$ 0.030  $\chi^2$ /NDF: 1877.3/1



asym\_sam\_13\_57\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.011 $\pm$ 0.121  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

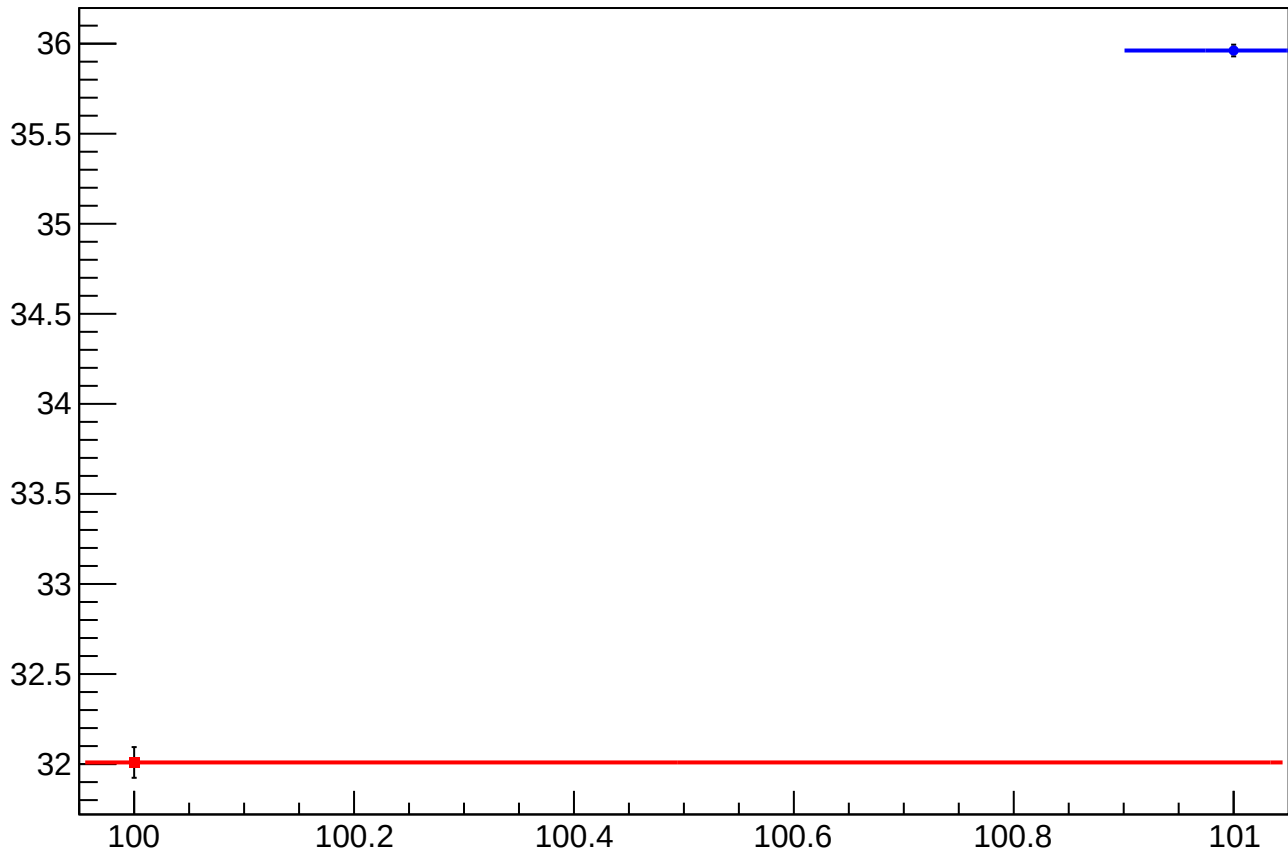
Right: 0.058 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 0.4/1

In: 0.068 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.058 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 0.4/1

asym\_sam\_13\_57\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 35.962 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 32.009 $\pm$ 0.085  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

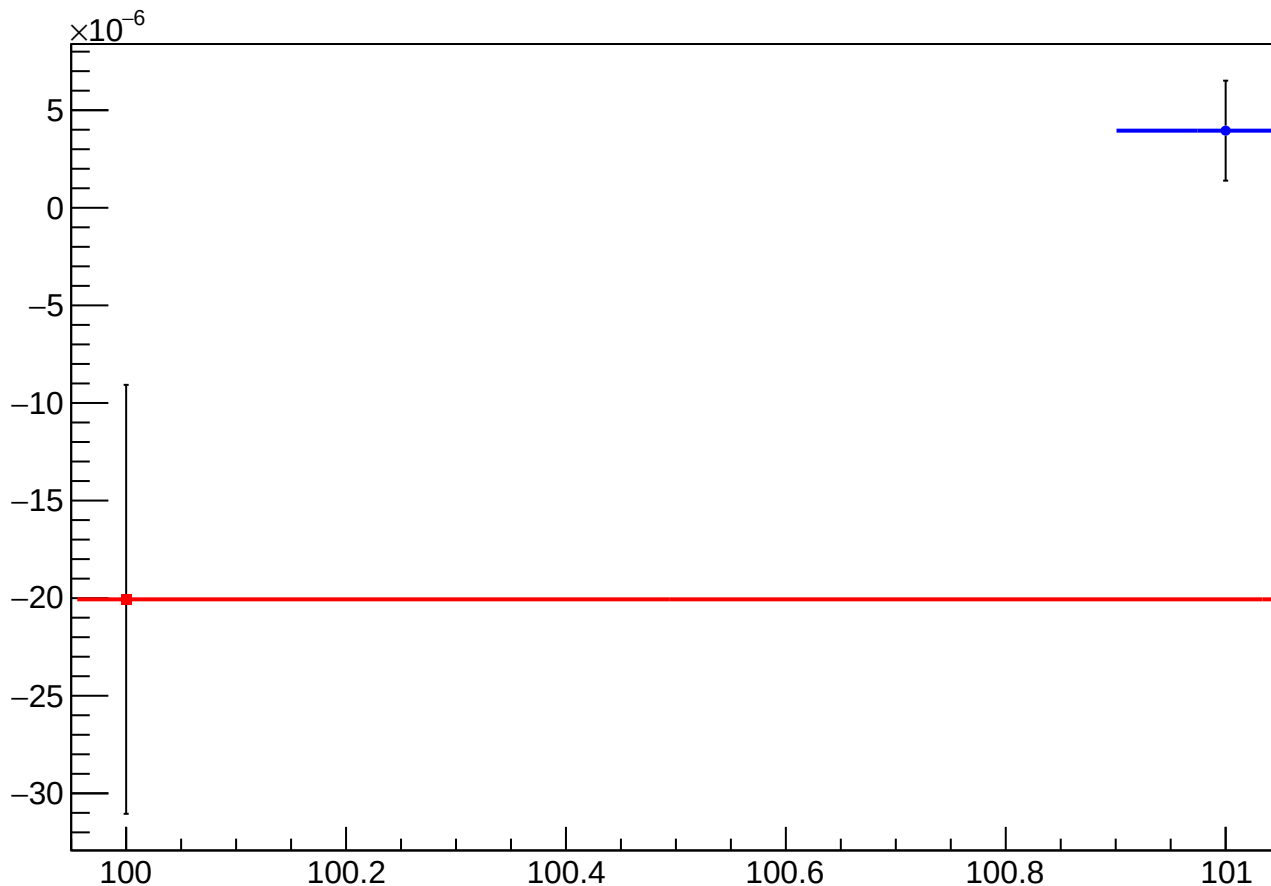
Right: 35.462 $\pm$ 0.030  $\chi^2$ /NDF: 1877.3/1

In: 35.962 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 35.462 $\pm$ 0.030  $\chi^2$ /NDF: 1877.3/1

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

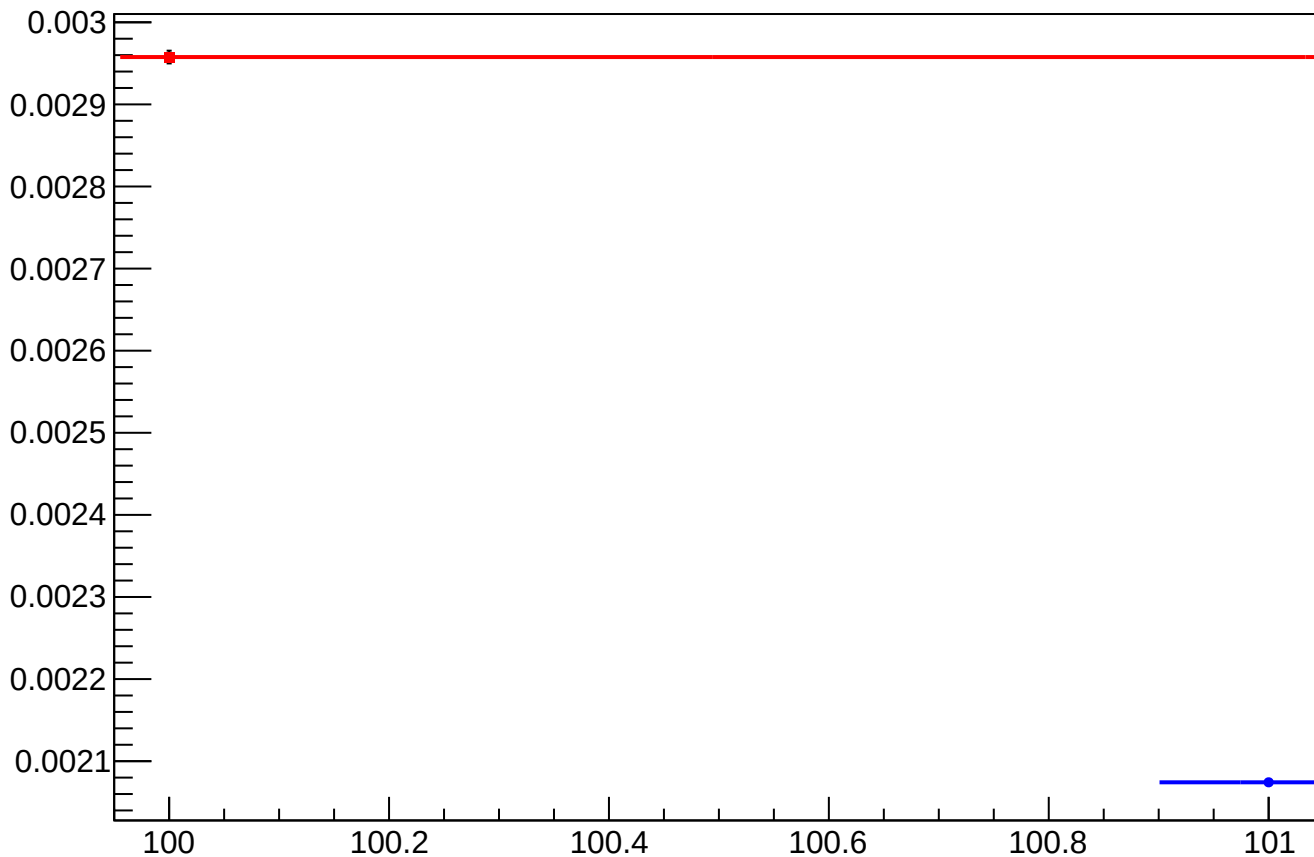
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.5/1

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

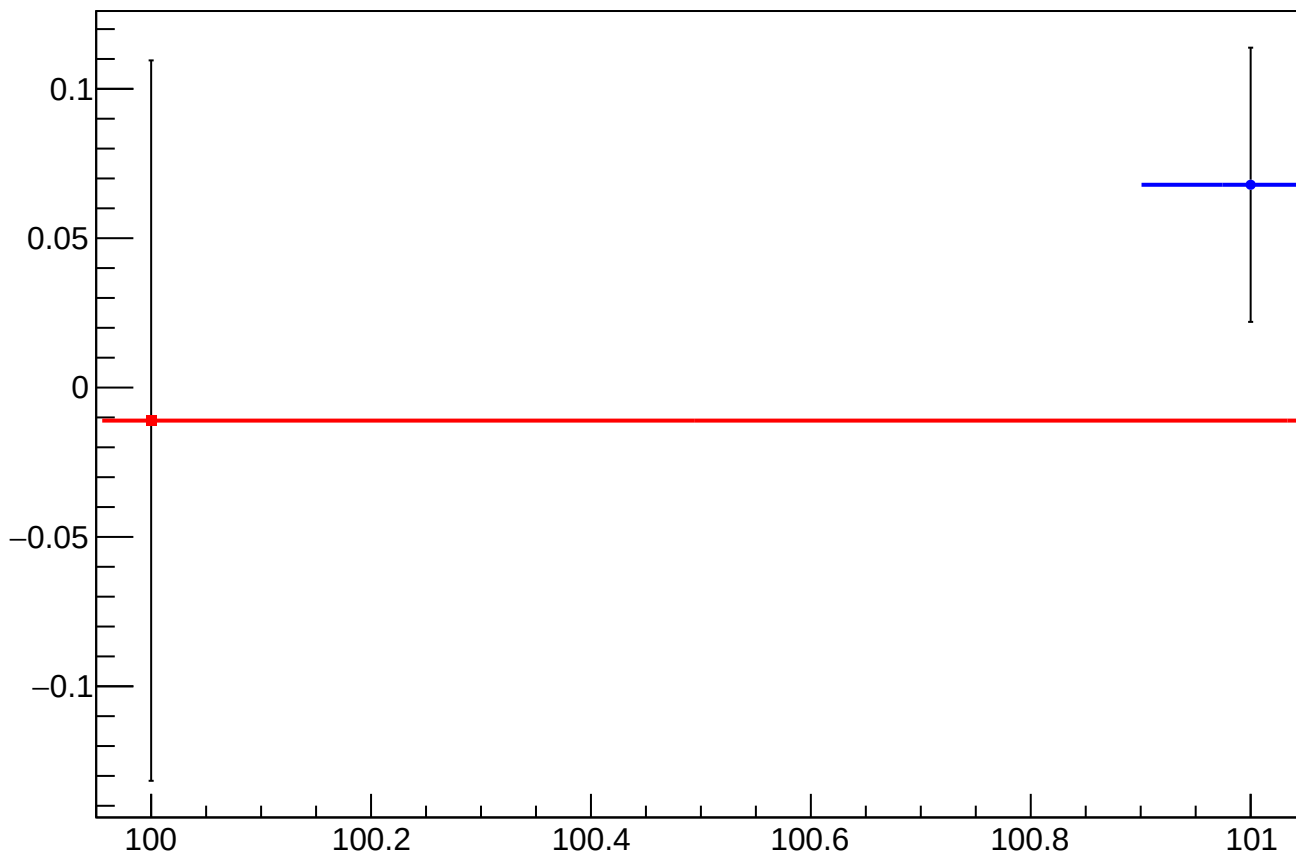
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 12260.4/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 12260.4/1

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.046  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.011 $\pm$ 0.121  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

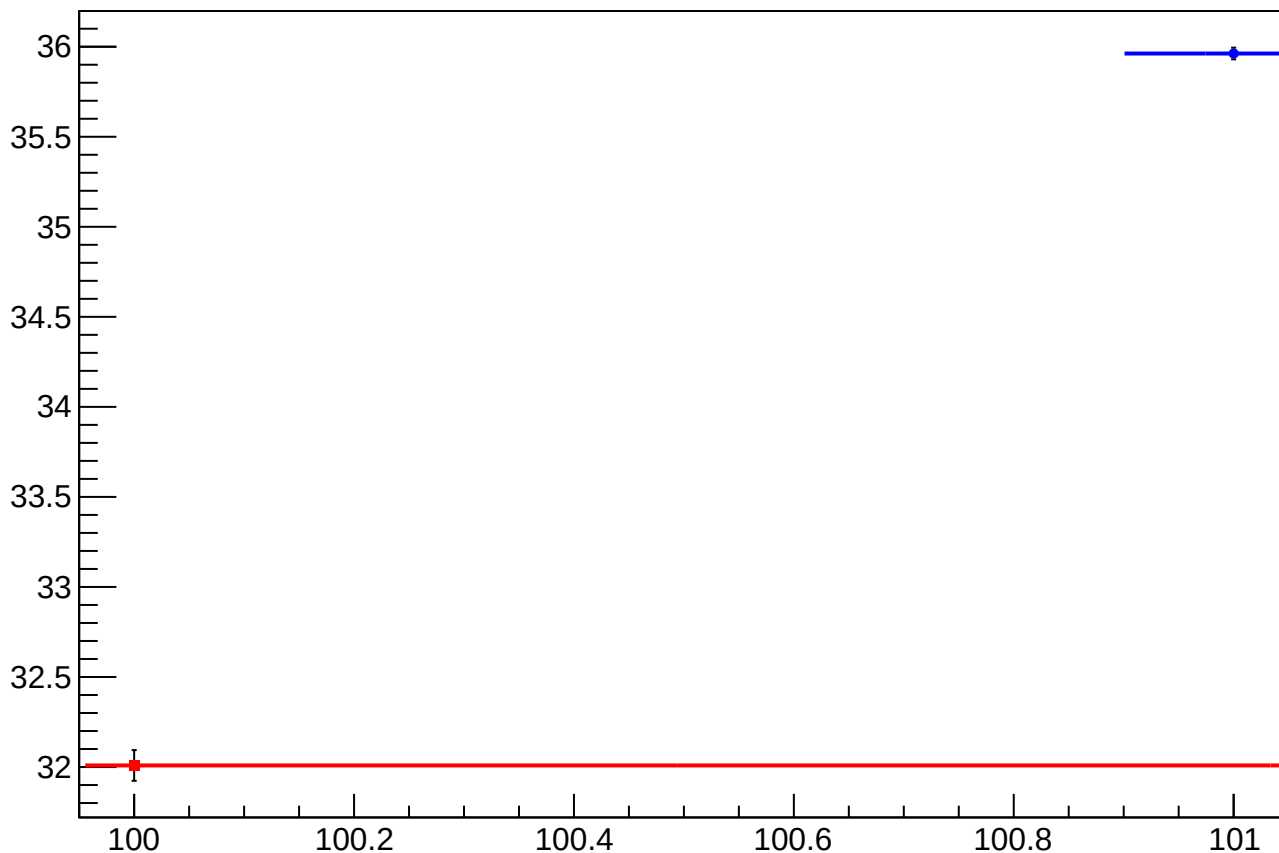
Right: 0.058 $\pm$ 0.043  $\chi^2$ /NDF: 0.4/1

In: 0.068 $\pm$ 0.046  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.058 $\pm$ 0.043  $\chi^2$ /NDF: 0.4/1

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 35.962 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 32.009 $\pm$ 0.085  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

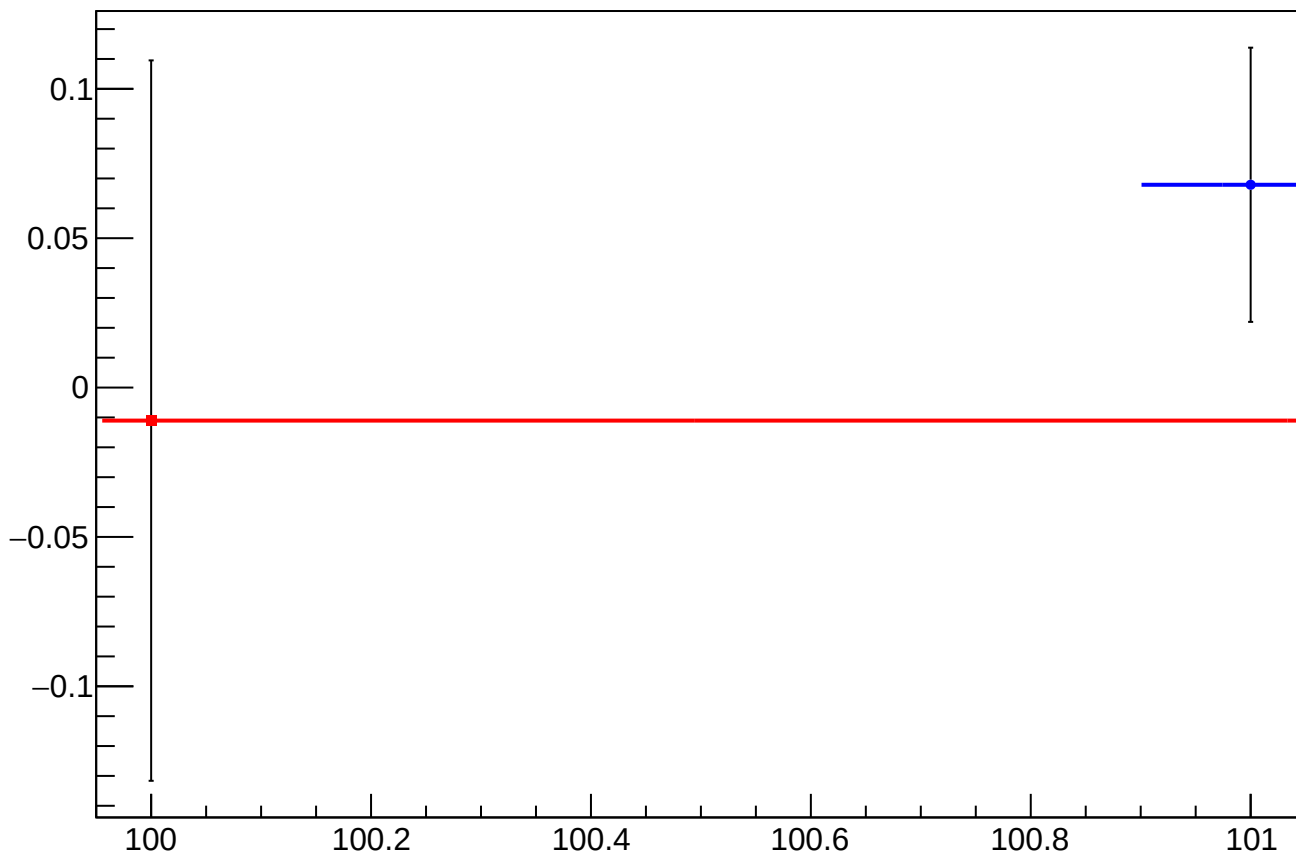
Right: 35.462 $\pm$ 0.030  $\chi^2$ /NDF: 1878.0/1

In: 35.962 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 35.462 $\pm$ 0.030  $\chi^2$ /NDF: 1878.0/1

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.046  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.011 $\pm$ 0.121  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

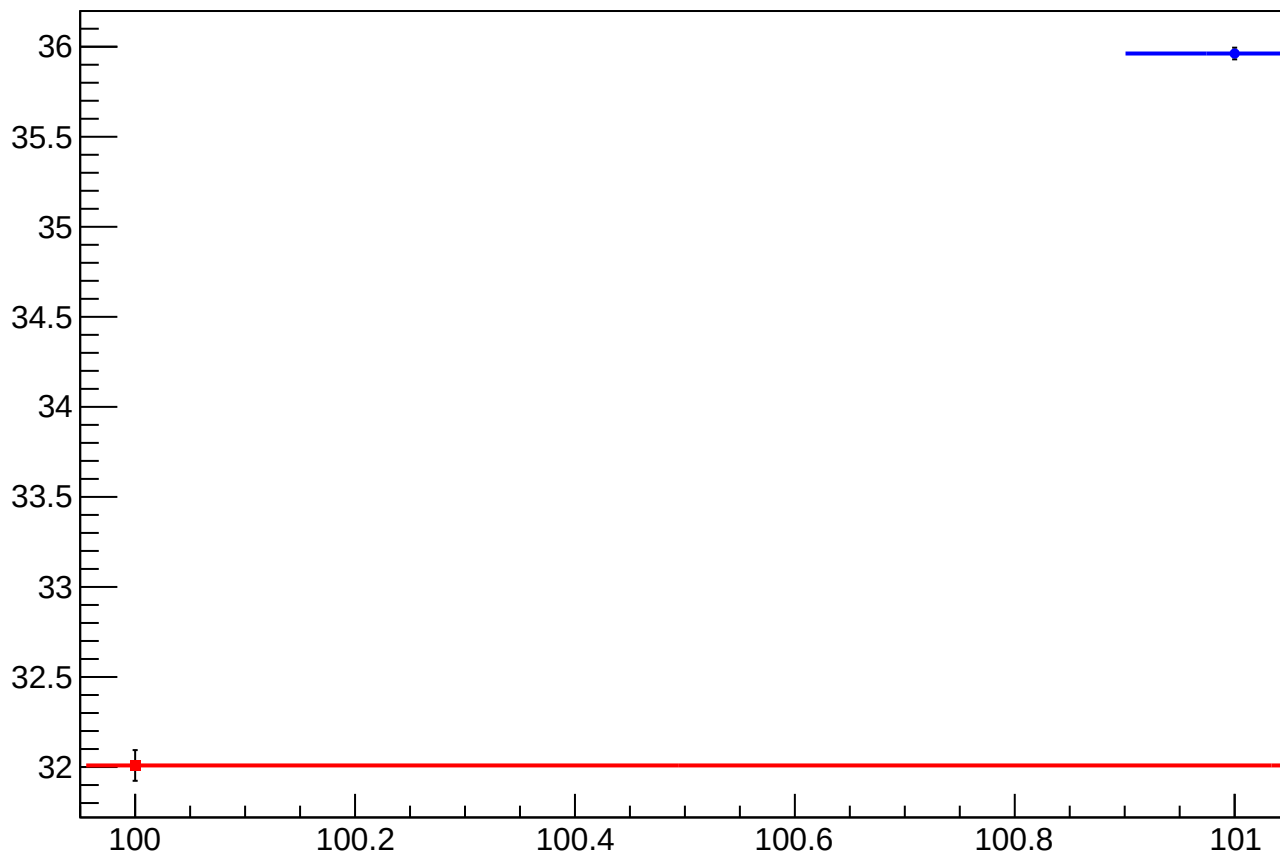
Right: 0.058 $\pm$ 0.043  $\chi^2$ /NDF: 0.4/1

In: 0.068 $\pm$ 0.046  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.058 $\pm$ 0.043  $\chi^2$ /NDF: 0.4/1

asym\_sam\_13\_57\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 35.962 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 32.009 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 35.462 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 1878.0/1

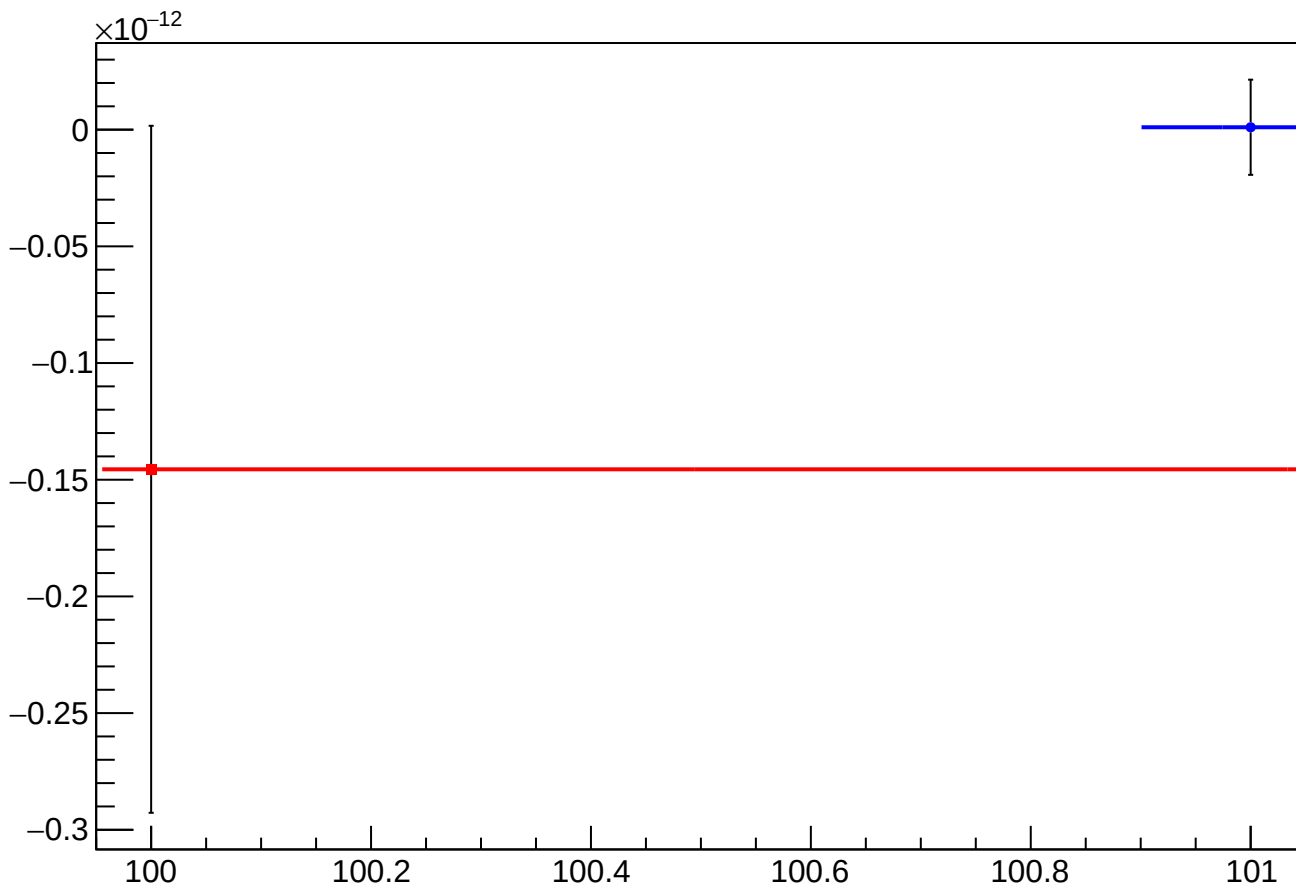
In: 35.962 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.462 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 1878.0/1



asym\_sam\_13\_57\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

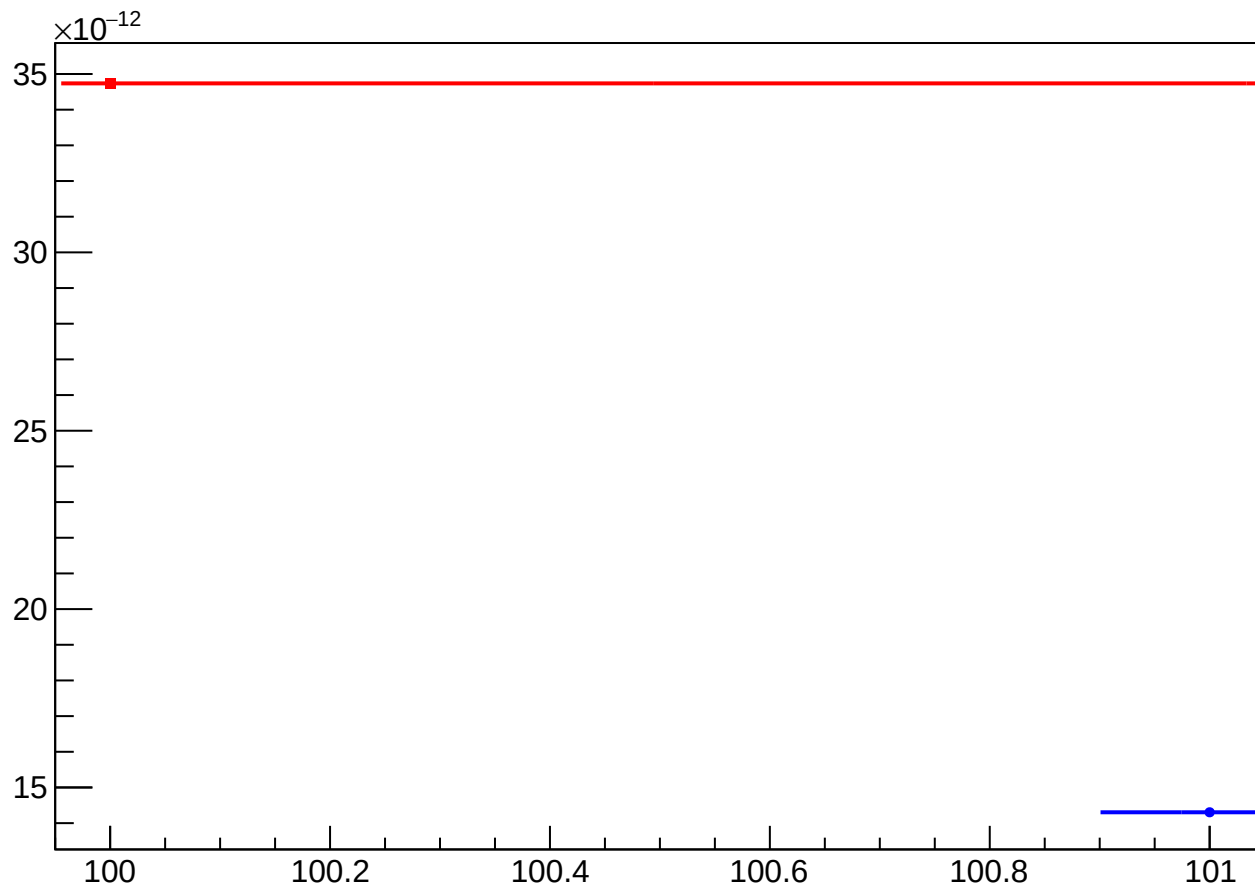
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.0/1

asym\_sam\_13\_57\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

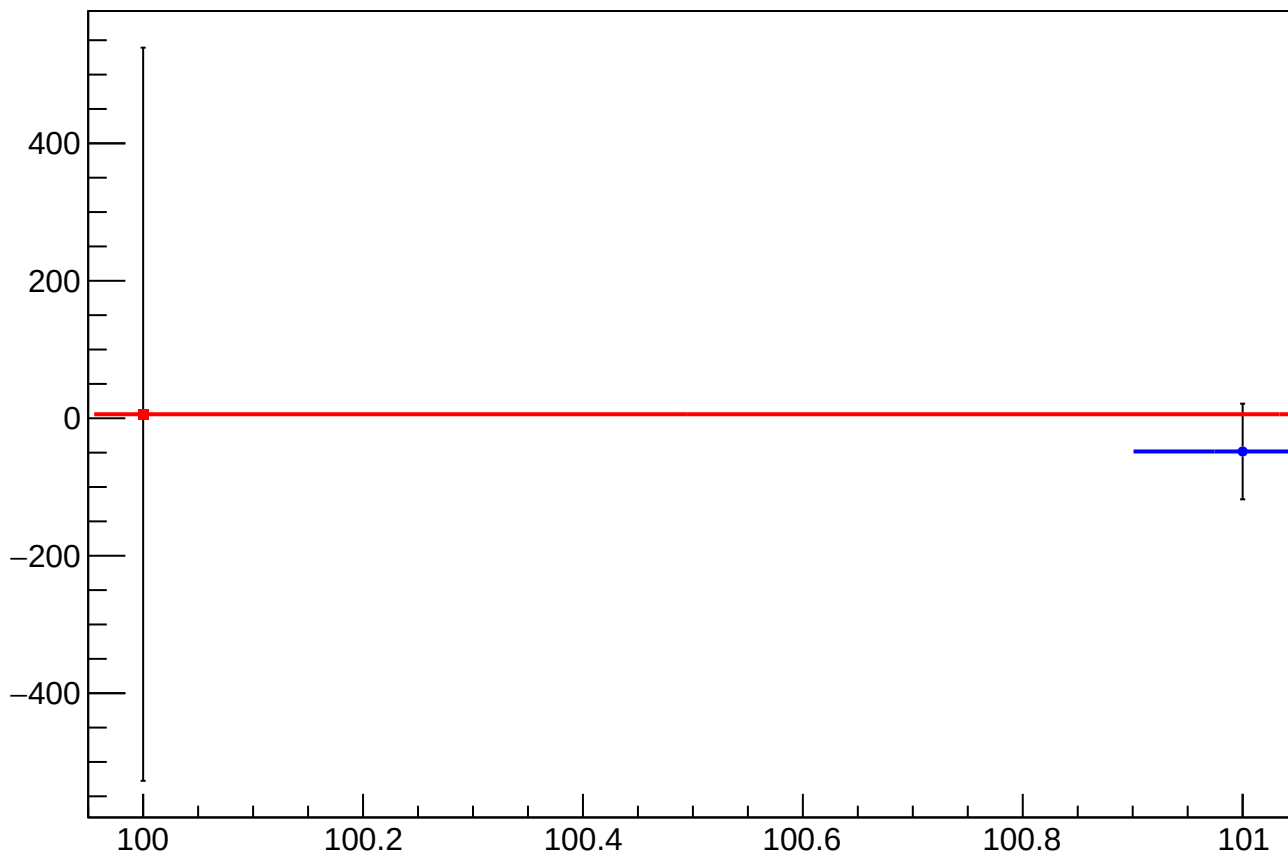
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37818.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37818.4/1

reg\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: -48.314+/-69.577  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5.872+/-533.294  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

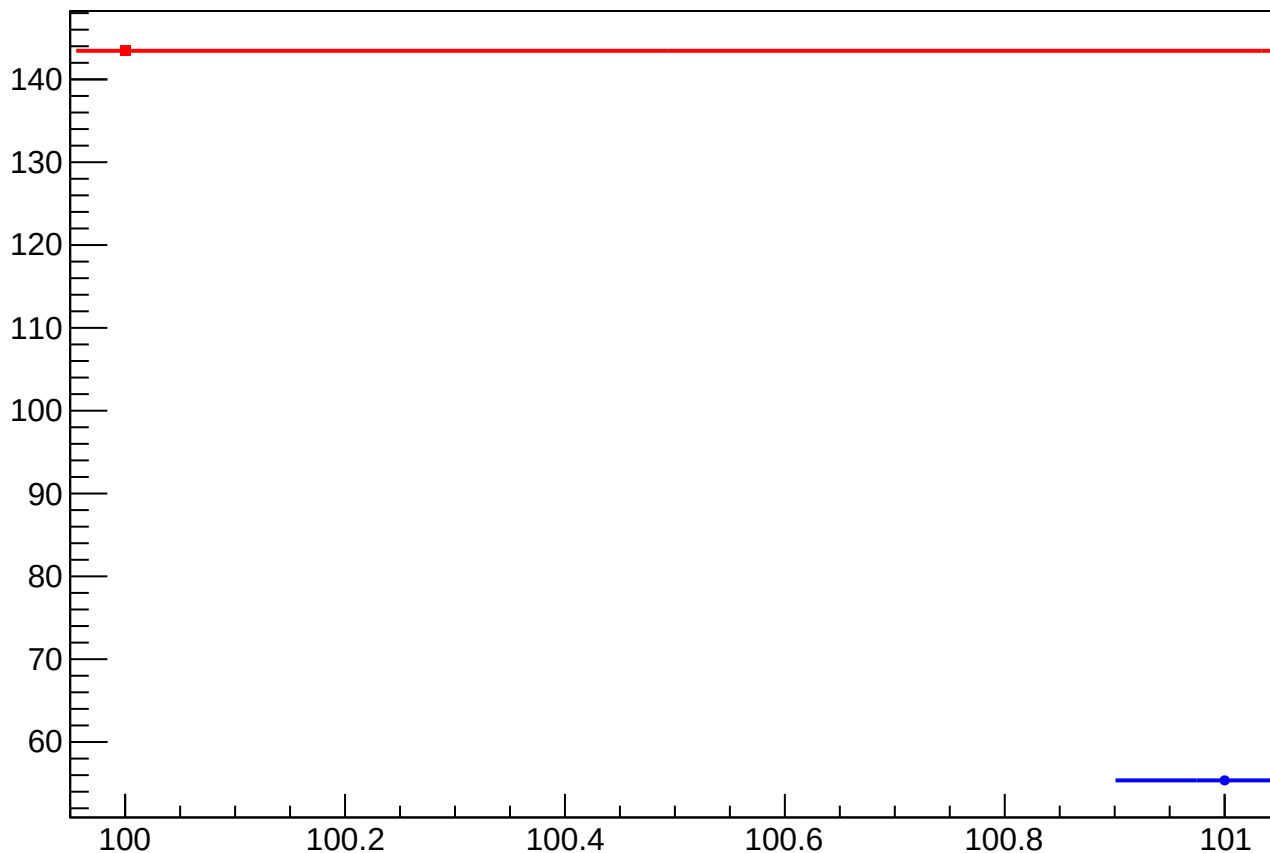
Right: -47.407+/-68.993  $\chi^2$ /NDF: 0.0/1

In: -48.314+/-69.577  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -47.407+/-68.993  $\chi^2$ /NDF: 0.0/1

reg\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 55.367 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 143.452 $\pm$ 0.377  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

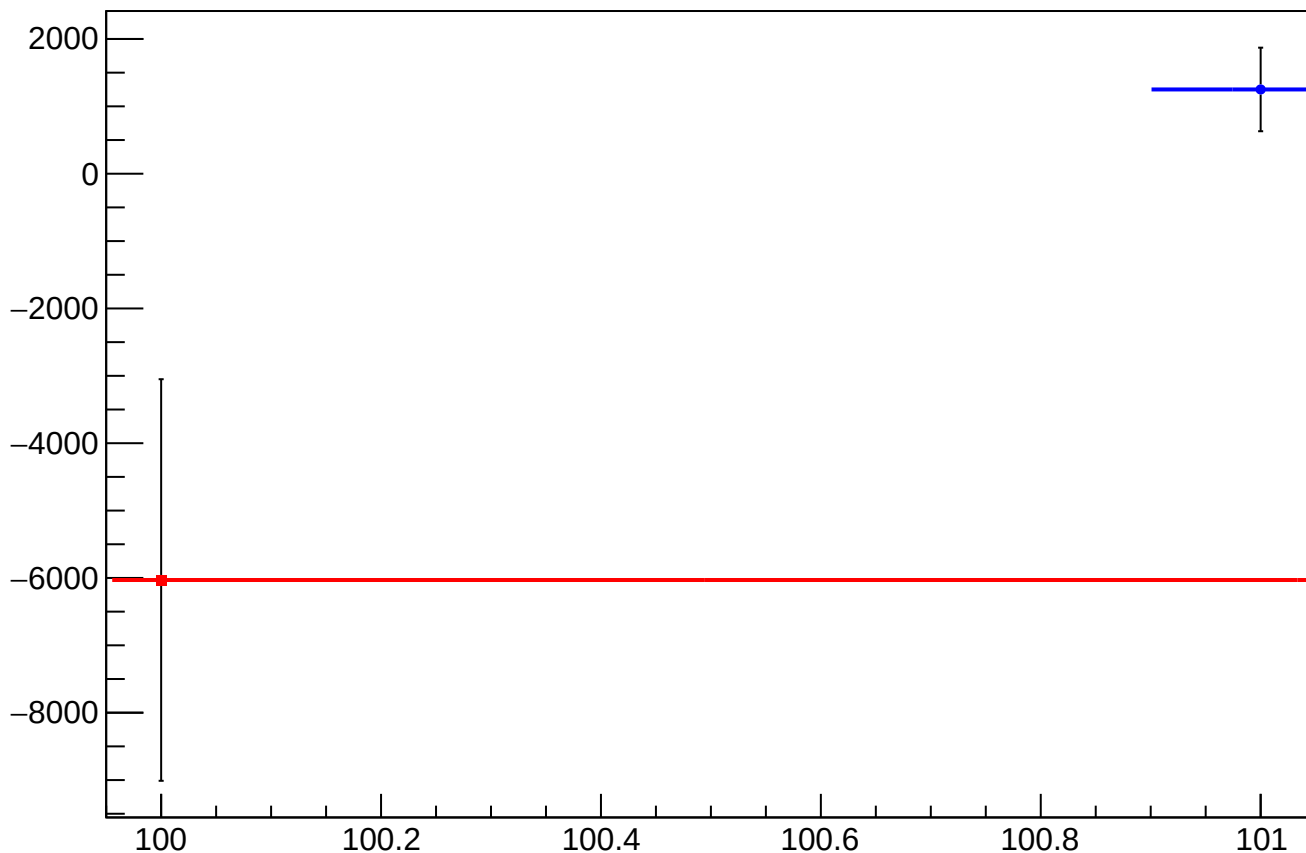
Right: 56.841 $\pm$ 0.049  $\chi^2$ /NDF: 53650.0/1

In: 55.367 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.841 $\pm$ 0.049  $\chi^2$ /NDF: 53650.0/1

asym\_sam\_15\_37\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1250.682 $\pm$ 620.173  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -6030.501 $\pm$ 2980.355  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

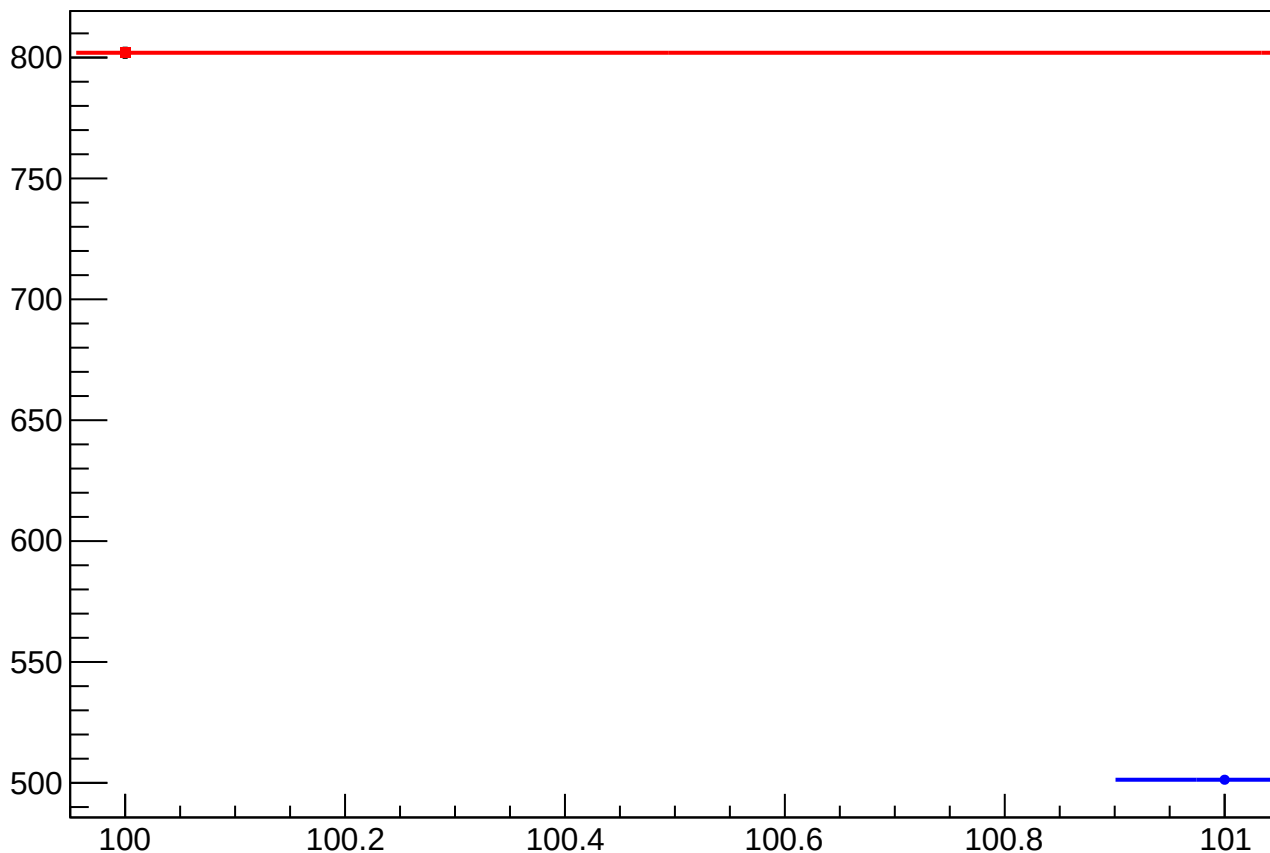
Right: 948.491 $\pm$ 607.167  $\chi^2$ /NDF: 5.7/1

In: 1250.682 $\pm$ 620.173  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 948.491 $\pm$ 607.167  $\chi^2$ /NDF: 5.7/1

asym\_sam\_15\_37\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 501.294+/-0.439  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 801.979+/-2.107  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

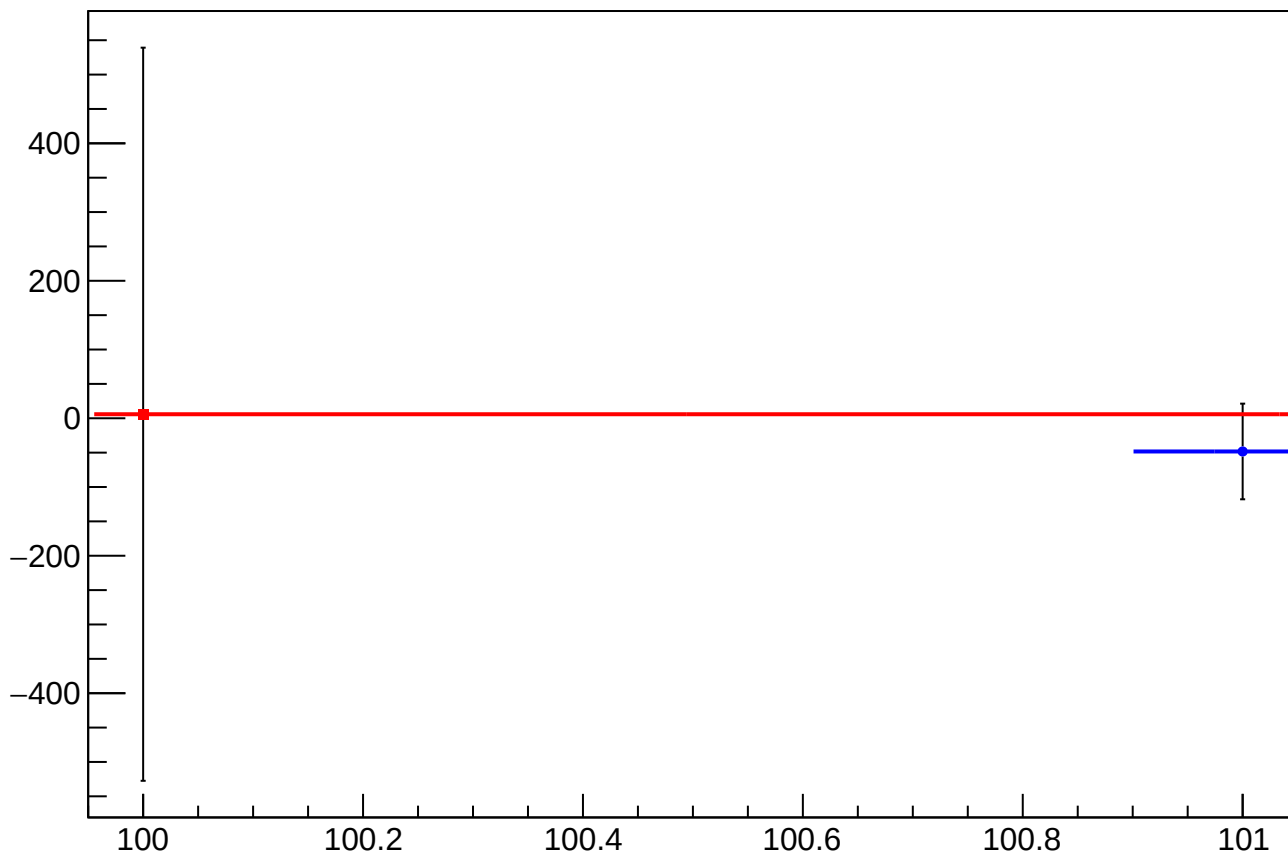
Right: 513.774+/-0.429  $\chi^2/\text{NDF}$ : 19512.2/1

In: 501.294+/-0.439  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 513.774+/-0.429  $\chi^2/\text{NDF}$ : 19512.2/1

cor\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: -47.403+/-68.993  $\chi^2$ /NDF: 0.0/1

In: -48.310+/-69.577  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -47.403+/-68.993  $\chi^2$ /NDF: 0.0/1

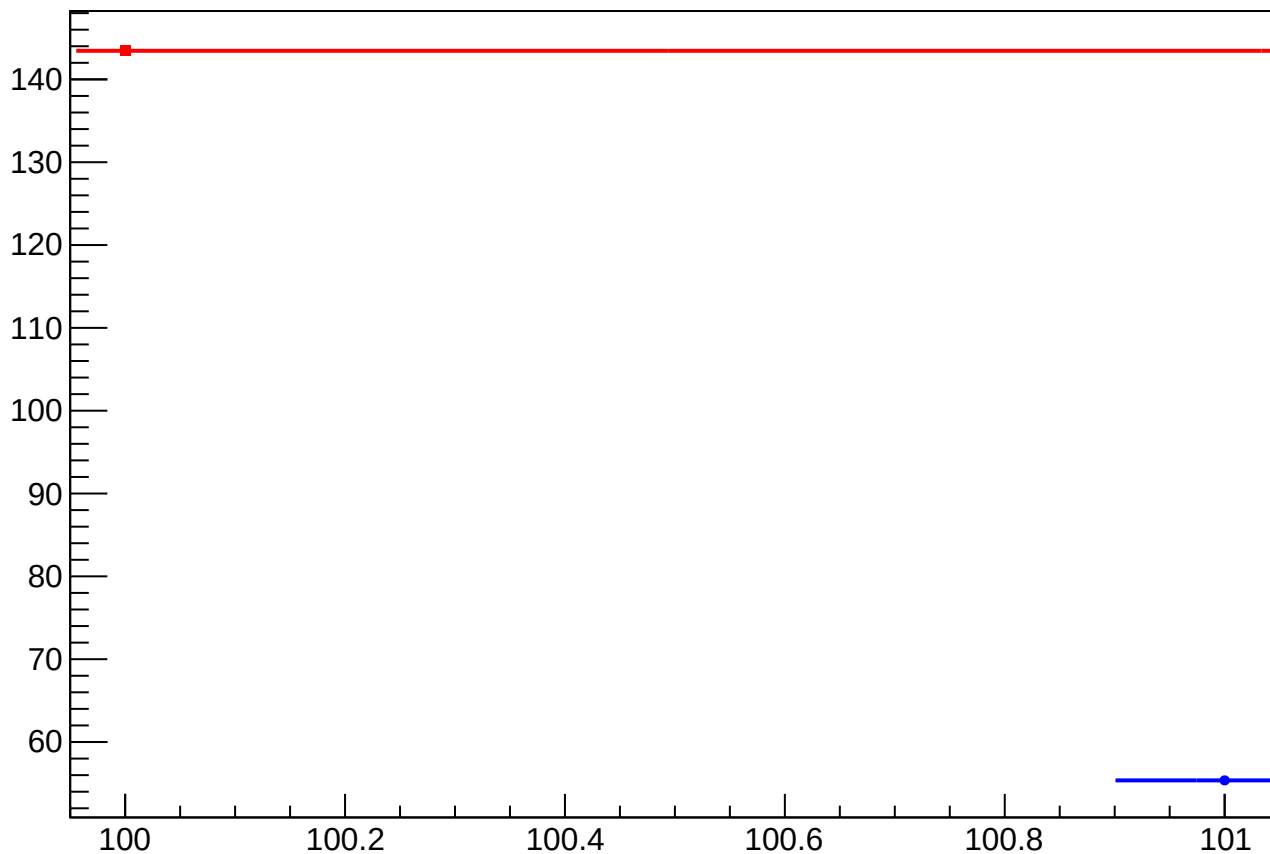
Right In: -48.310+/-69.577  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.867+/-533.294  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

cor\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 55.367 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 143.452 $\pm$ 0.377  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 56.841 $\pm$ 0.049  $\chi^2$ /NDF: 53650.0/1

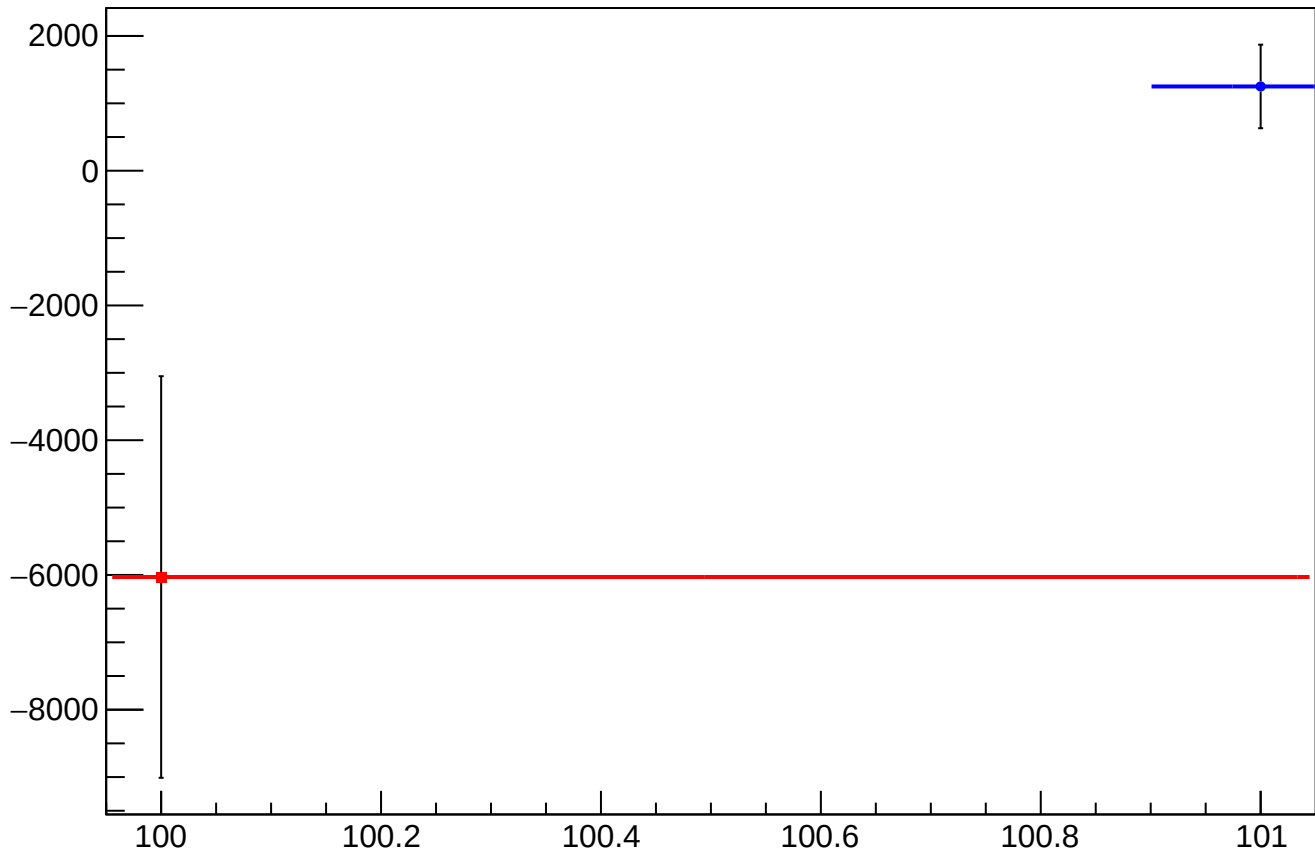
In: 55.367 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.841 $\pm$ 0.049  $\chi^2$ /NDF: 53650.0/1



asym\_sam\_15\_37\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1250.689+/-620.173  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6030.504+/-2980.356  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

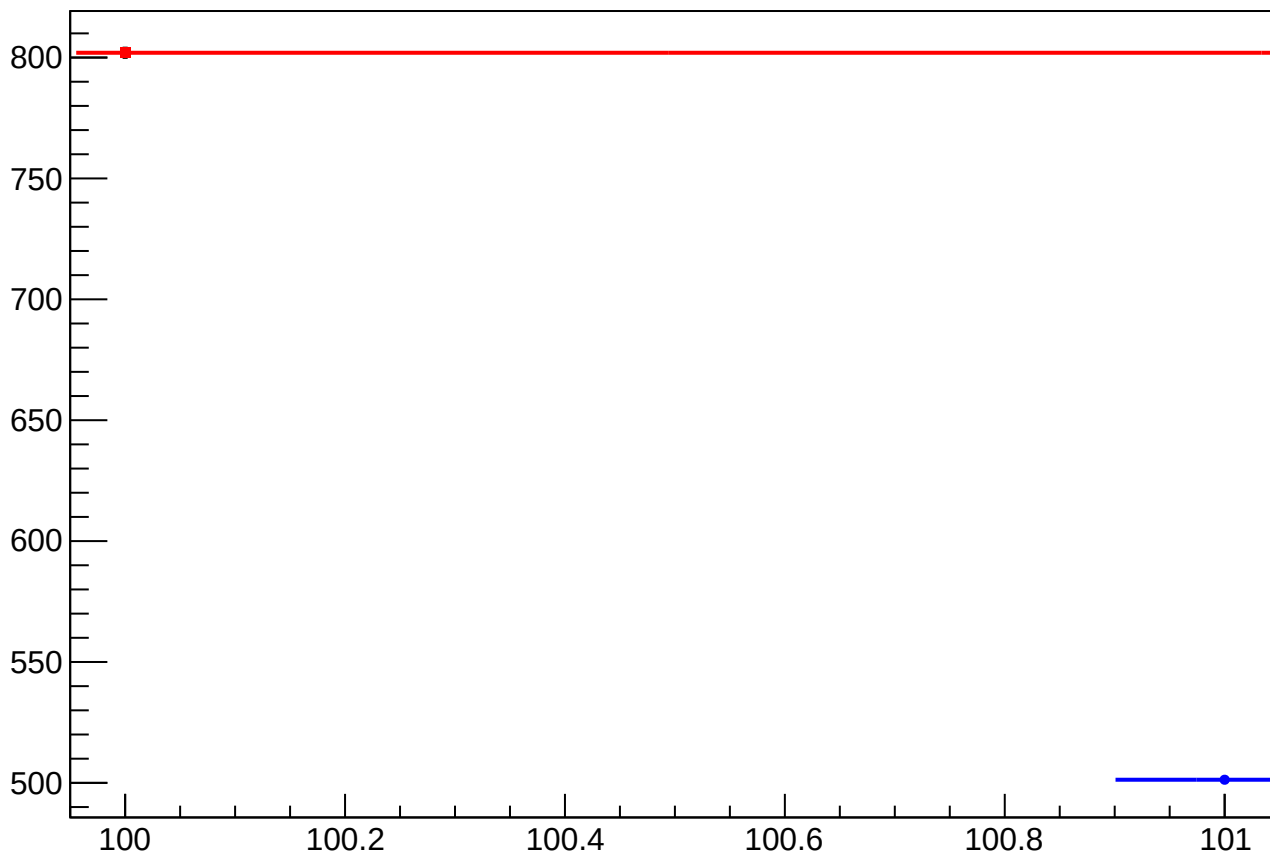
Right: 948.498+/-607.167  $\chi^2/\text{NDF}$ : 5.7/1

In: 1250.689+/-620.173  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 948.498+/-607.167  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam\_15\_37\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 501.295+/-0.439  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 801.979+/-2.107  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

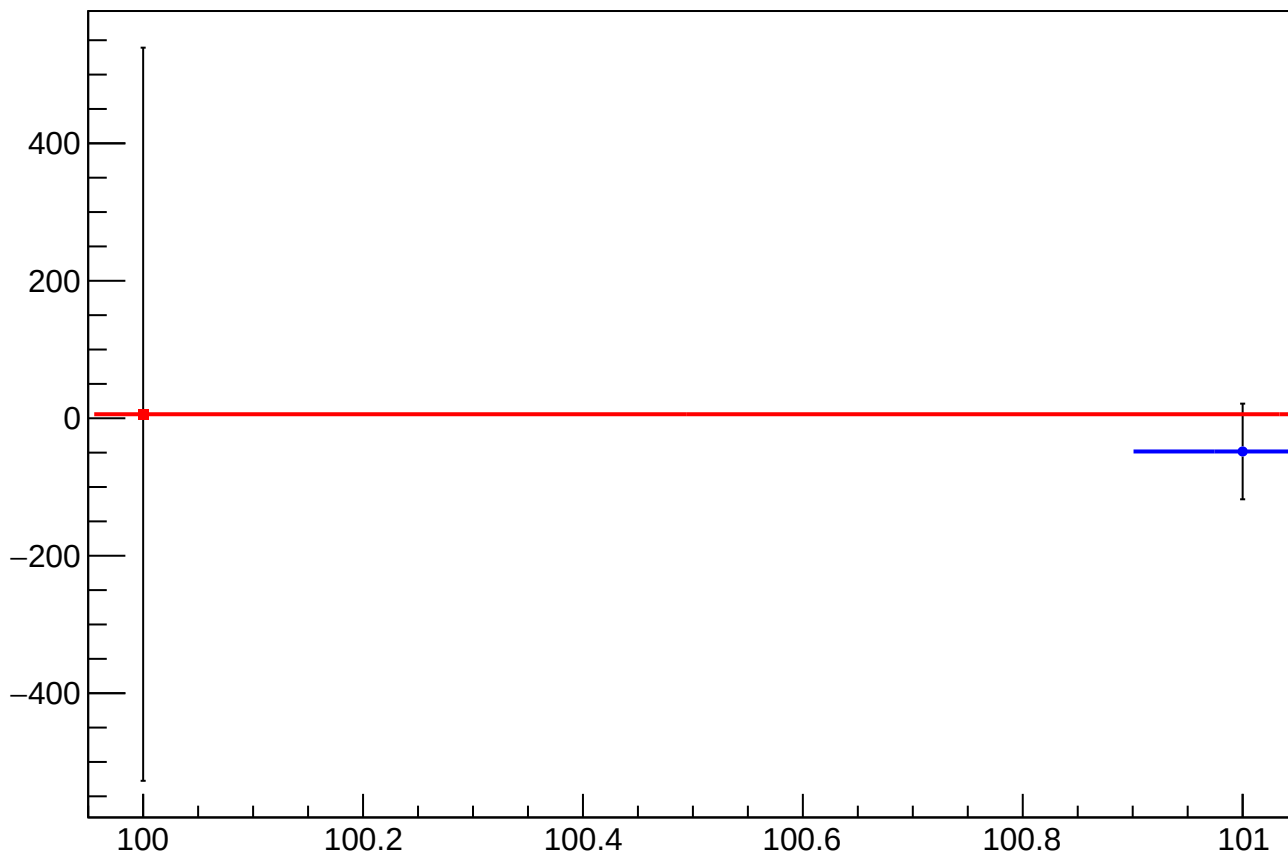
Right: 513.774+/-0.429  $\chi^2/\text{NDF}$ : 19512.3/1

In: 501.295+/-0.439  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 513.774+/-0.429  $\chi^2/\text{NDF}$ : 19512.3/1

eigen\_cor\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: -48.310 $\pm$ 69.577  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.867 $\pm$ 533.294  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

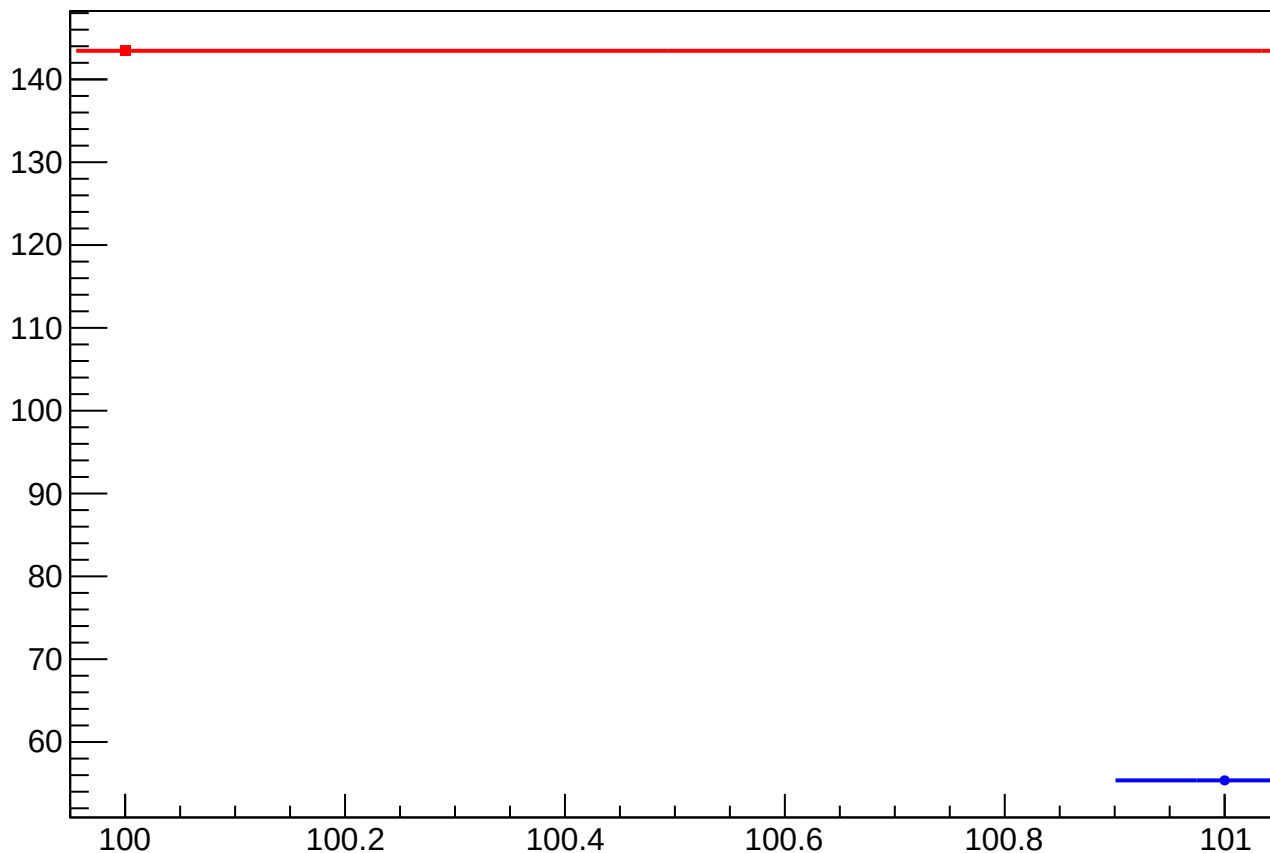
Right: -47.403 $\pm$ 68.993  $\chi^2$ /NDF: 0.0/1

In: -48.310 $\pm$ 69.577  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -47.403 $\pm$ 68.993  $\chi^2$ /NDF: 0.0/1

eigen\_cor\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 55.367 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 143.452 $\pm$ 0.377  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

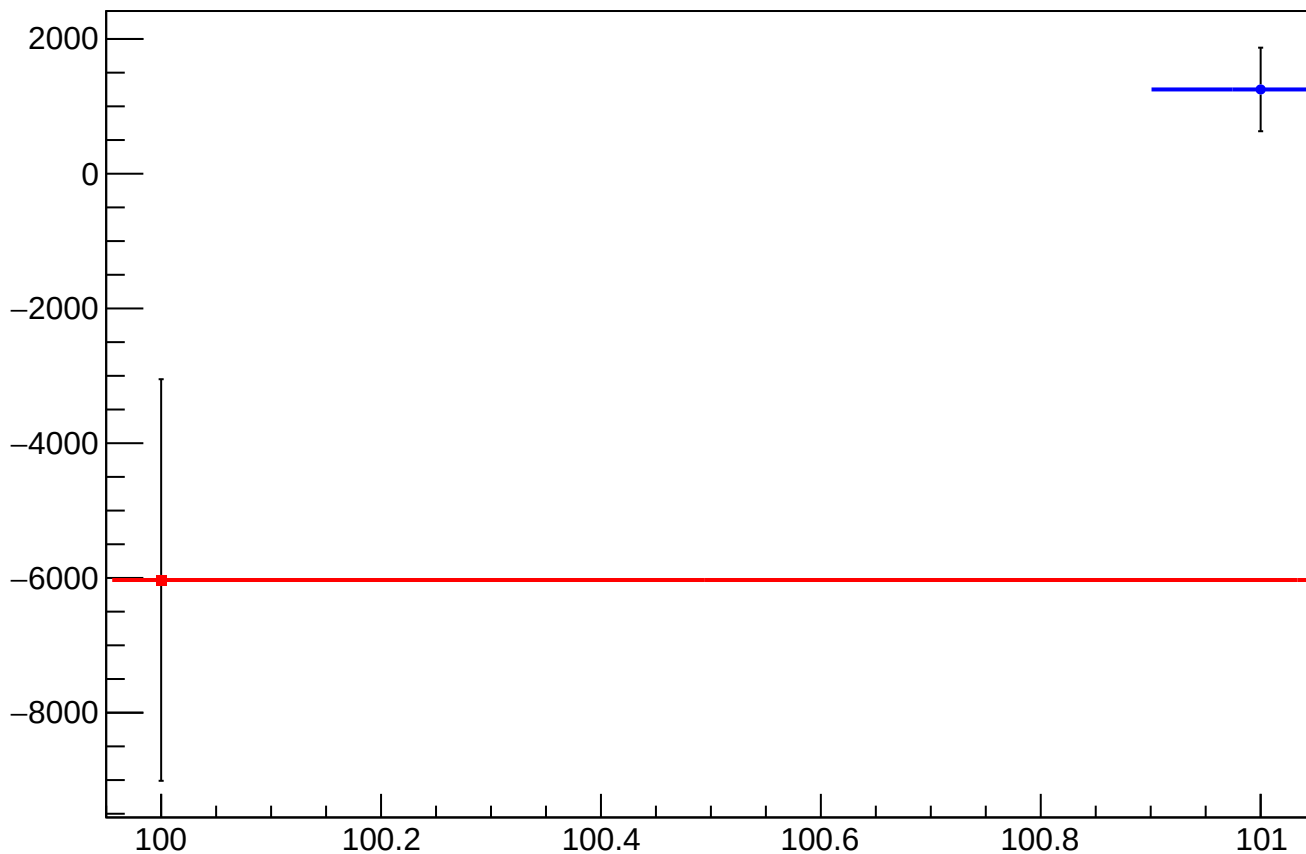
Right: 56.841 $\pm$ 0.049  $\chi^2$ /NDF: 53650.0/1

In: 55.367 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 56.841 $\pm$ 0.049  $\chi^2$ /NDF: 53650.0/1

asym\_sam\_15\_37\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1250.689+/-620.173  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6030.504+/-2980.356  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

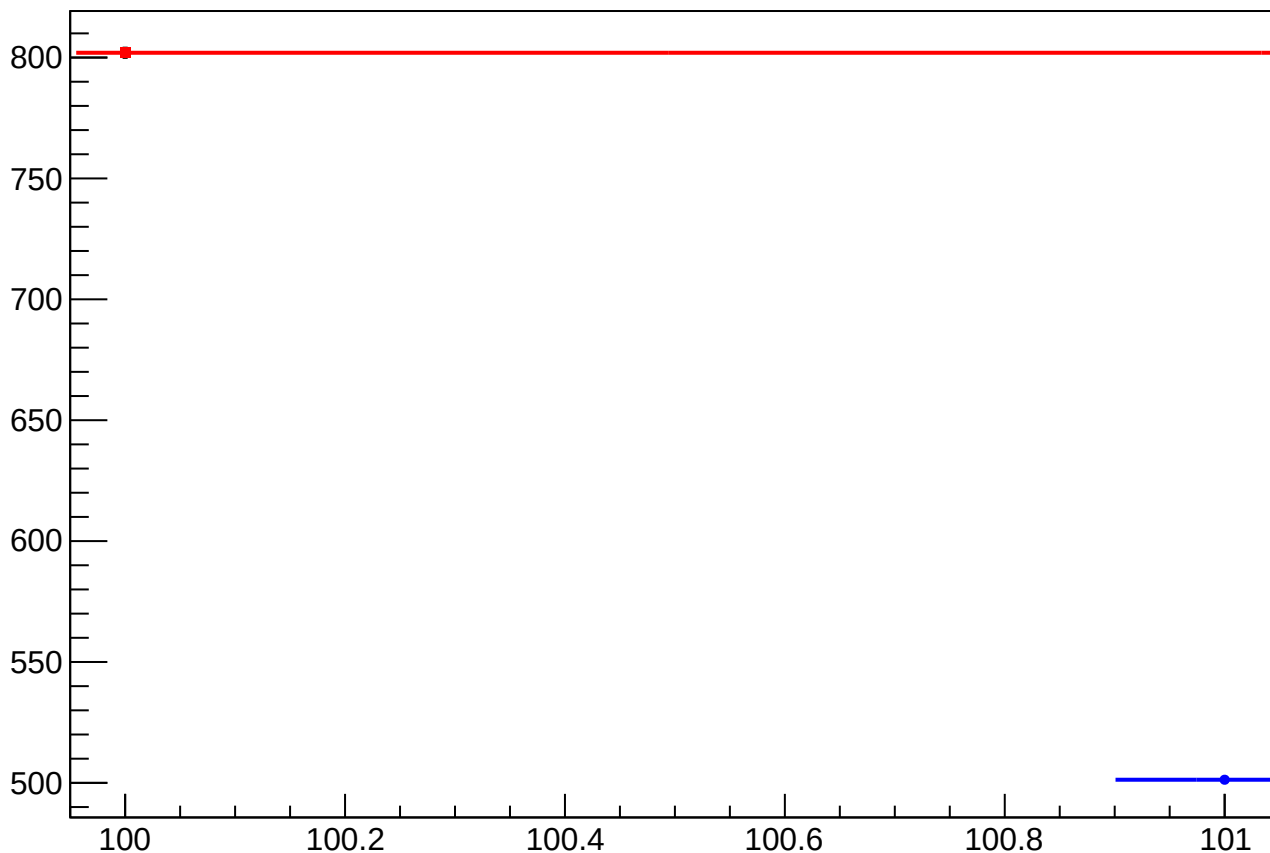
Right: 948.498+/-607.167  $\chi^2/\text{NDF}$ : 5.7/1

In: 1250.689+/-620.173  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 948.498+/-607.167  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam\_15\_37\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 501.295+/-0.439  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 801.979+/-2.107  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

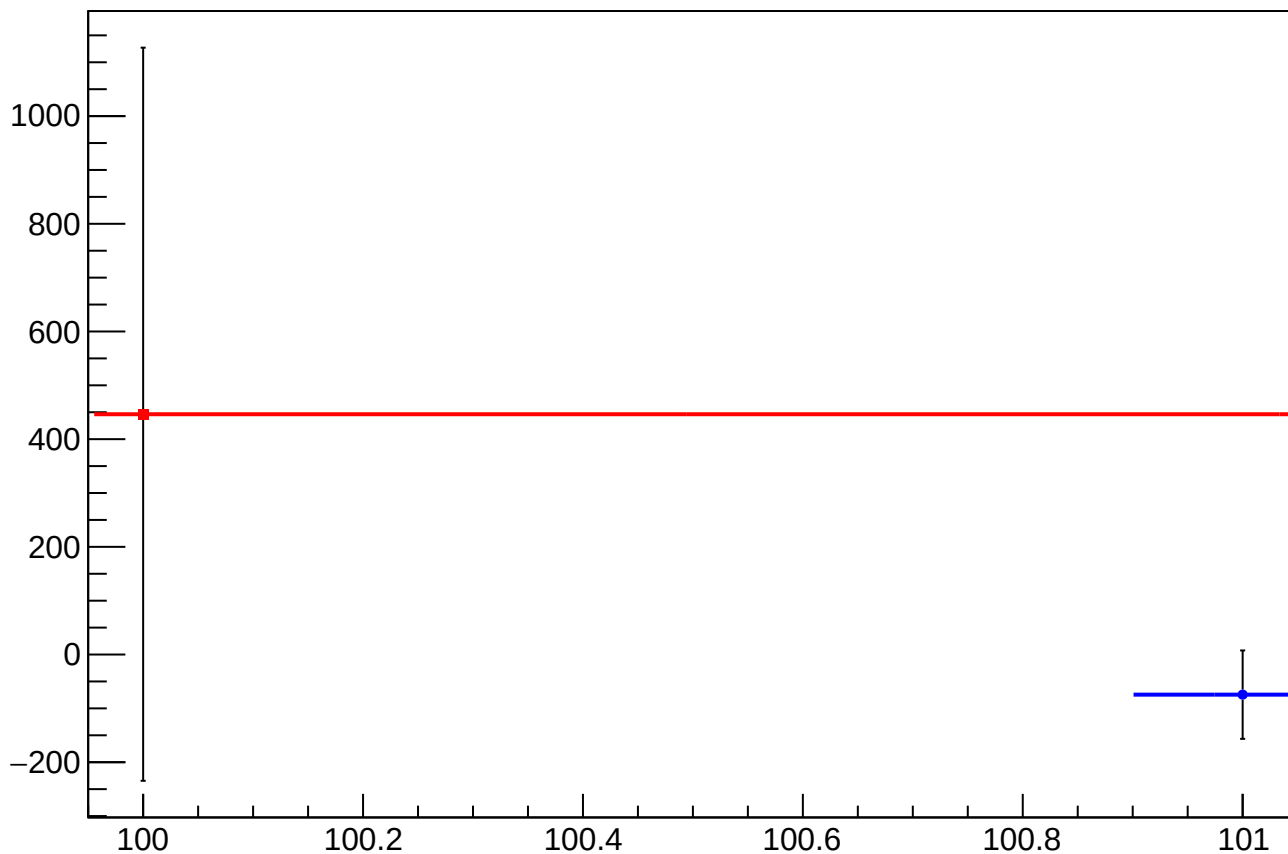
Right: 513.774+/-0.429  $\chi^2/\text{NDF}$ : 19512.3/1

In: 501.295+/-0.439  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 513.774+/-0.429  $\chi^2/\text{NDF}$ : 19512.3/1

dit\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: -74.512 $\pm$ 82.080  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 446.304 $\pm$ 680.821  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

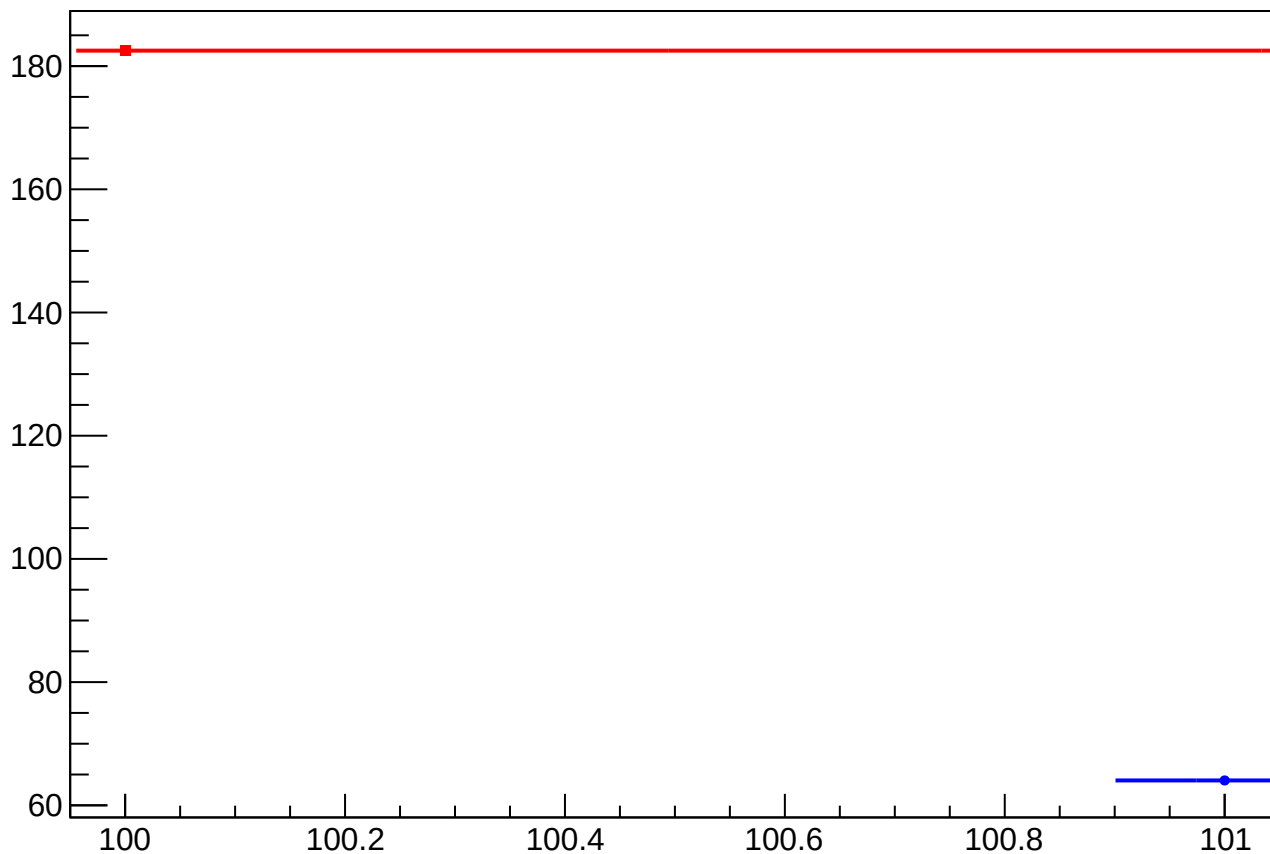
Right: -67.050 $\pm$ 81.490  $\chi^2$ /NDF: 0.6/1

In: -74.512 $\pm$ 82.080  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -67.050 $\pm$ 81.490  $\chi^2$ /NDF: 0.6/1

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 64.039+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 182.511+/-0.481  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 65.736+/-0.058  $\chi^2/\text{NDF}$ : 59694.0/1

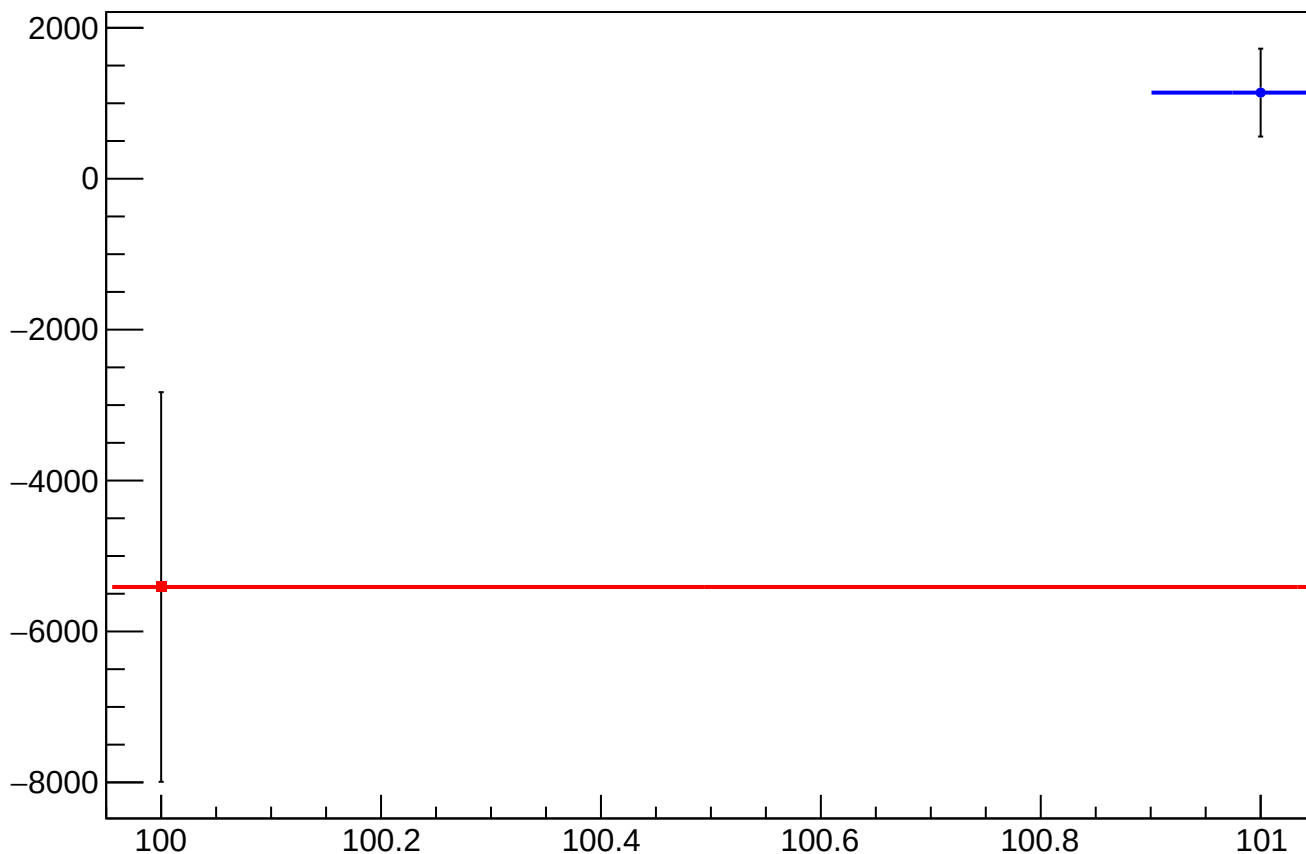
In: 64.039+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.736+/-0.058  $\chi^2/\text{NDF}$ : 59694.0/1



asym\_sam\_15\_37\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1141.351+/-582.372  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5410.346+/-2581.980  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

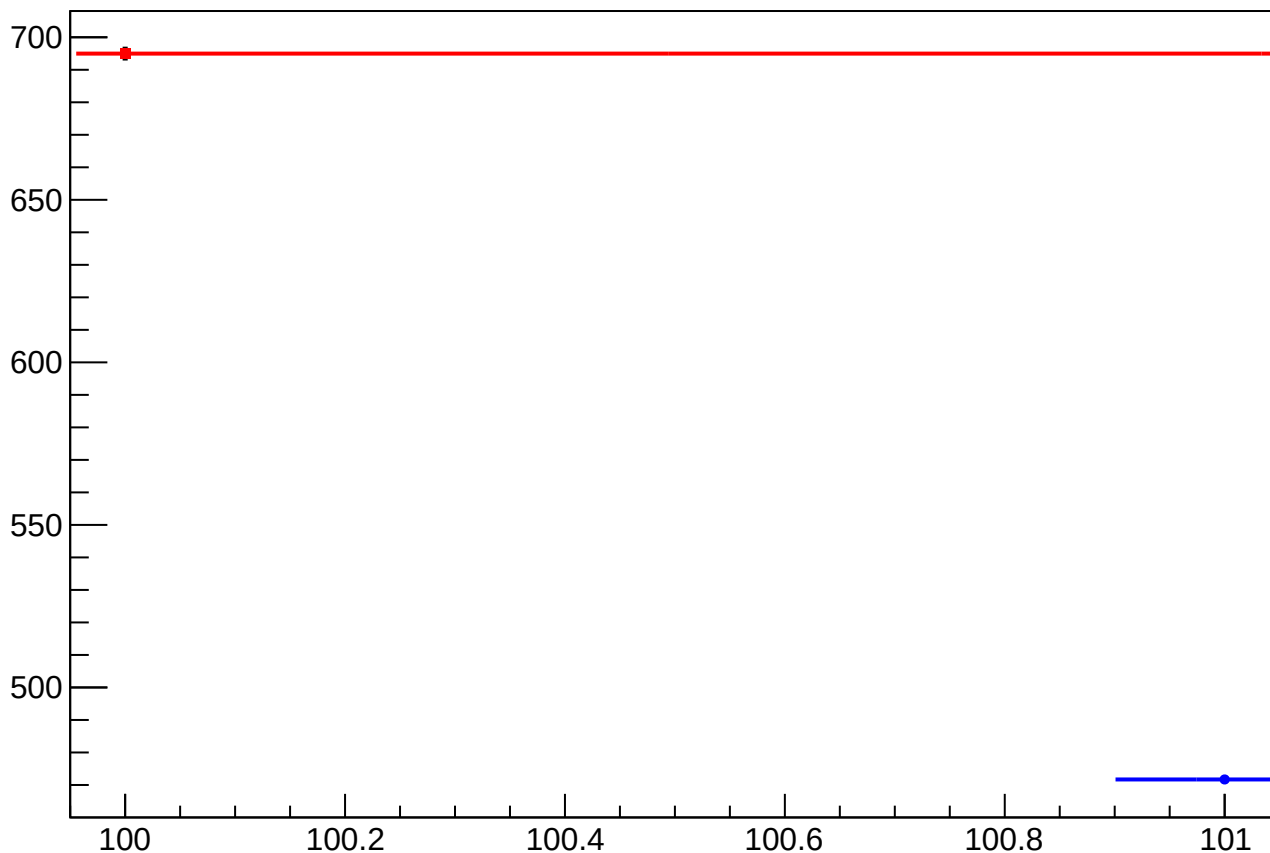
Right: 824.176+/-568.101  $\chi^2/\text{NDF}$ : 6.1/1

In: 1141.351+/-582.372  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 824.176+/-568.101  $\chi^2/\text{NDF}$ : 6.1/1

asym\_sam\_15\_37\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 471.699+/-0.412  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 694.976+/-1.826  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

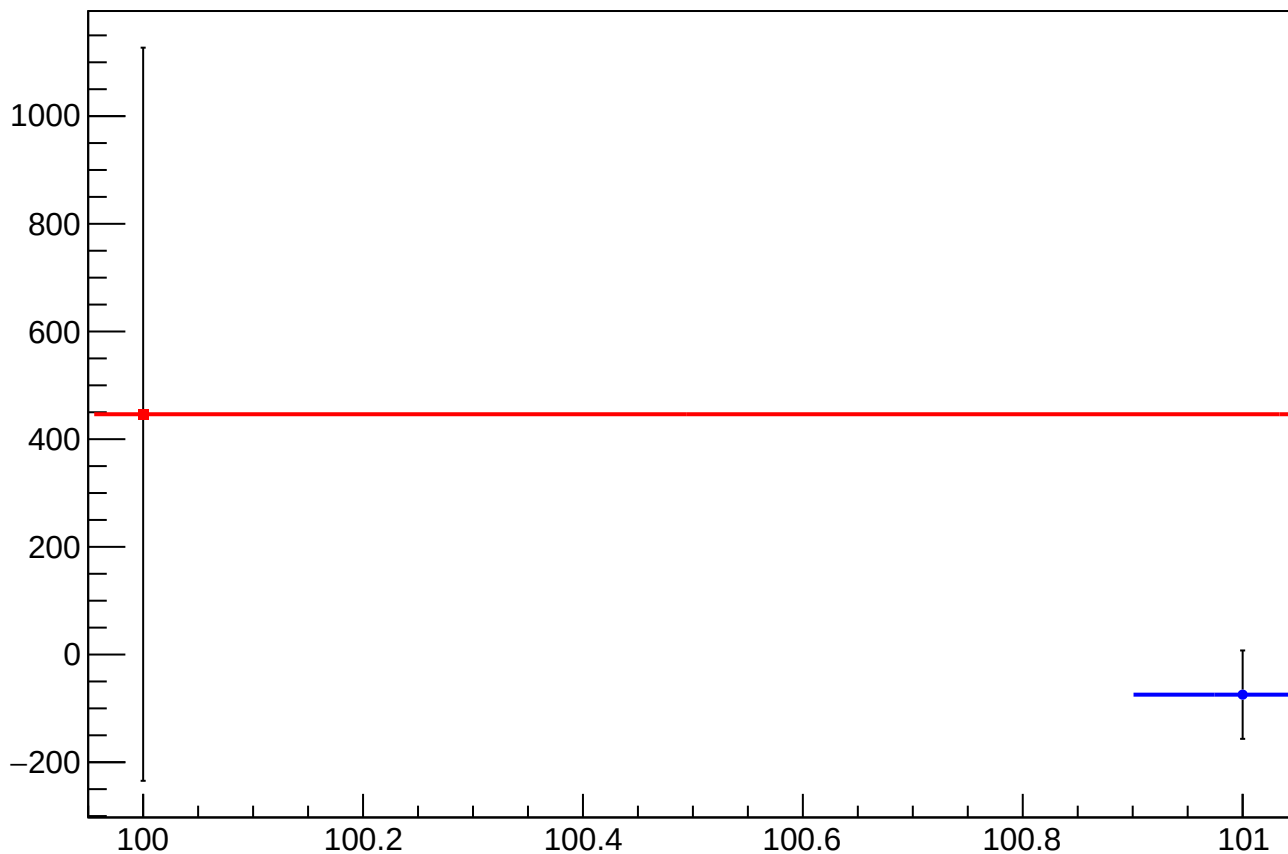
Right: 482.508+/-0.402  $\chi^2/\text{NDF}$ : 14231.9/1

In: 471.699+/-0.412  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 482.508+/-0.402  $\chi^2/\text{NDF}$ : 14231.9/1

eigen\_dit\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: -74.517+/-82.081  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 446.326+/-680.828  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

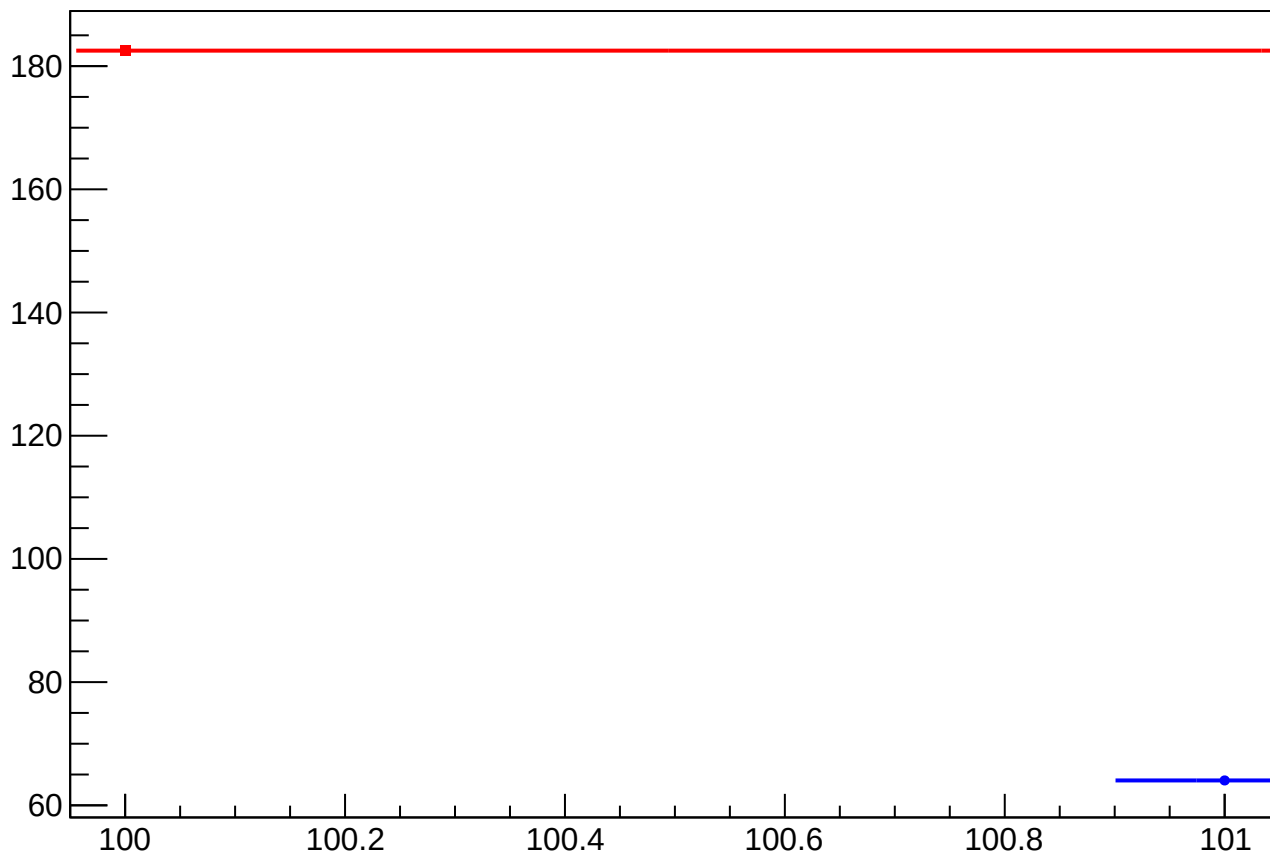
Right: -67.055+/-81.491  $\chi^2/\text{NDF}$ : 0.6/1

In: -74.517+/-82.081  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -67.055+/-81.491  $\chi^2/\text{NDF}$ : 0.6/1

eigen\_dit\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 64.039 $\pm$ 0.058  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 182.513 $\pm$ 0.481  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

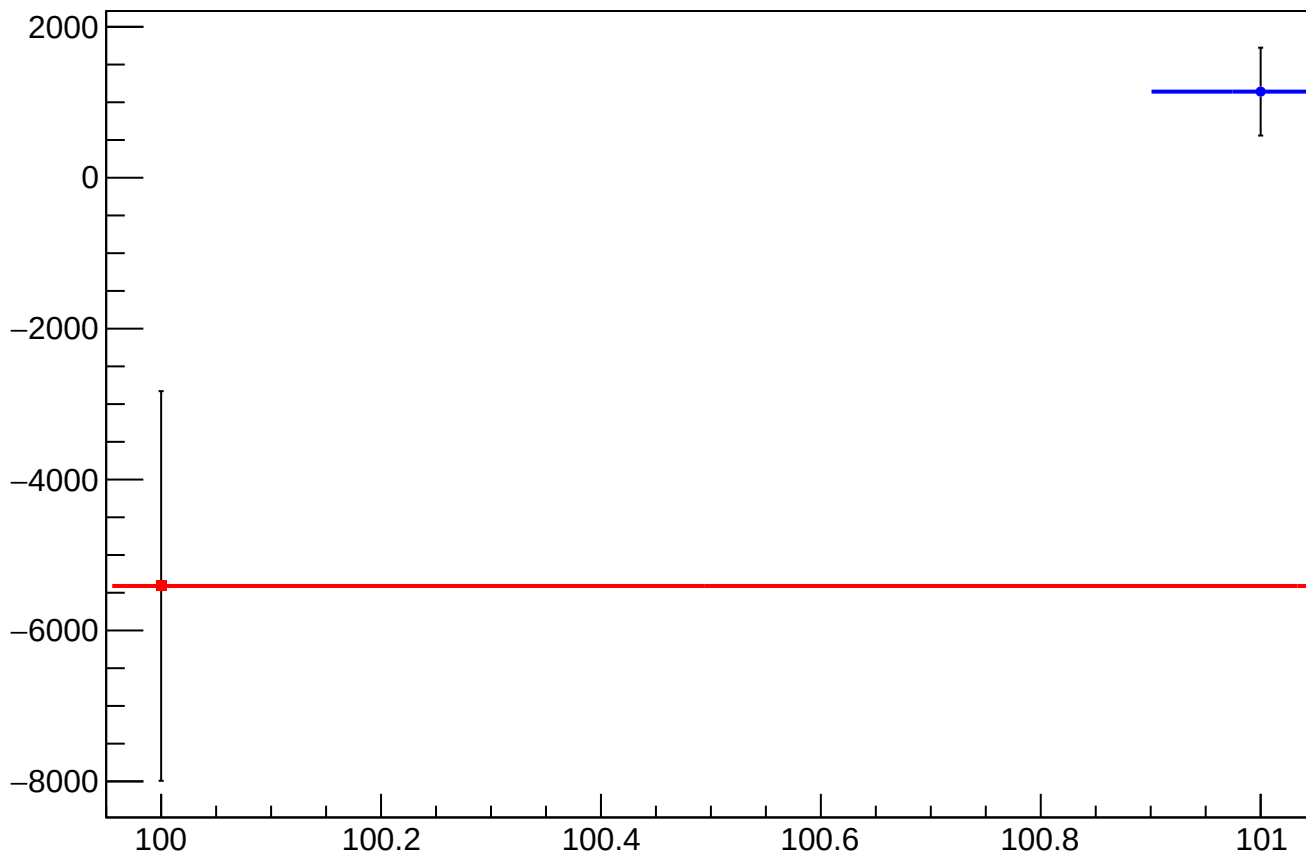
Right: 65.737 $\pm$ 0.058  $\chi^2$ /NDF: 59693.9/1

In: 64.039 $\pm$ 0.058  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 65.737 $\pm$ 0.058  $\chi^2$ /NDF: 59693.9/1

asym\_sam\_15\_37\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1141.346+/-582.370  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5410.324+/-2581.969  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

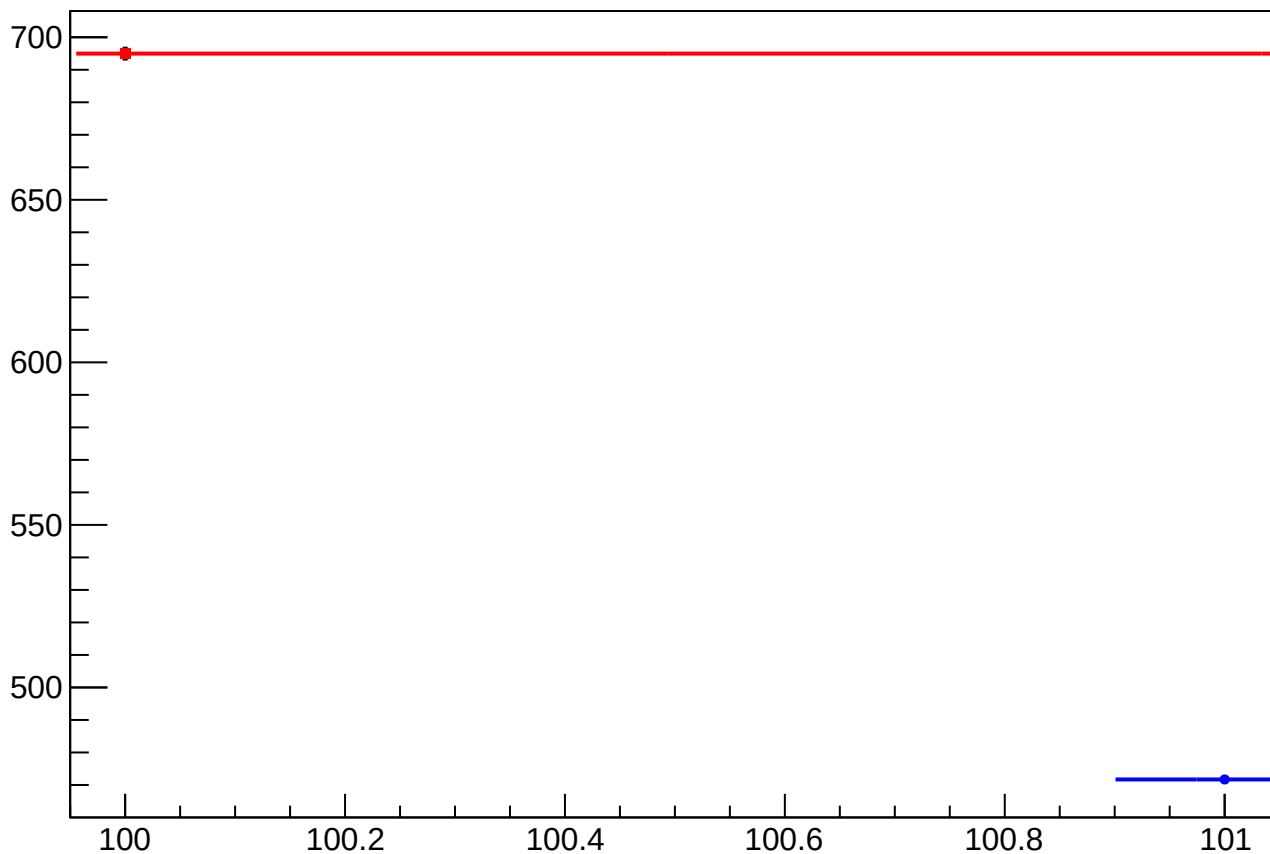
Right: 824.173+/-568.098  $\chi^2/\text{NDF}$ : 6.1/1

In: 1141.346+/-582.370  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 824.173+/-568.098  $\chi^2/\text{NDF}$ : 6.1/1

asym\_sam\_15\_37\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 471.697+/-0.412  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 694.973+/-1.826  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

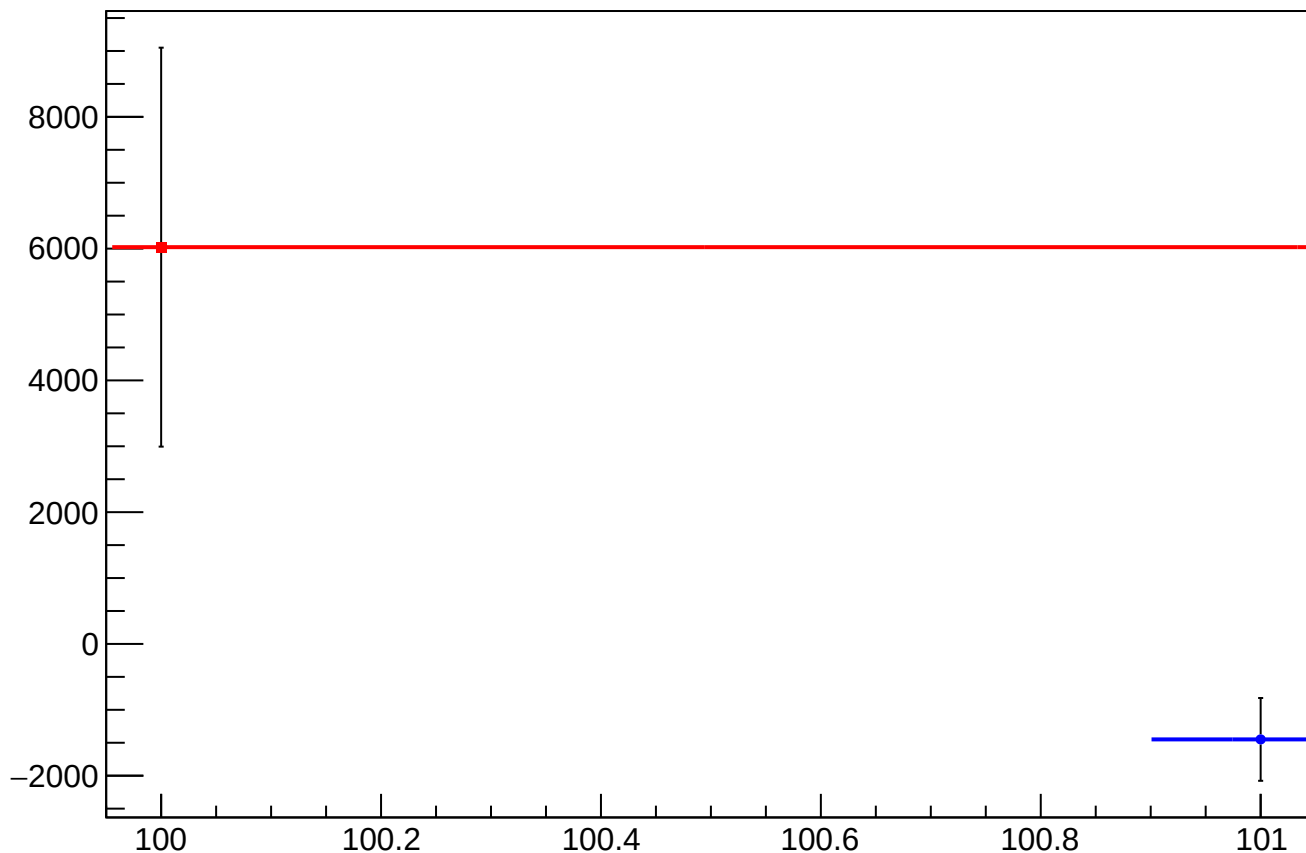
Right: 482.506+/-0.402  $\chi^2/\text{NDF}$ : 14231.9/1

In: 471.697+/-0.412  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 482.506+/-0.402  $\chi^2/\text{NDF}$ : 14231.9/1

asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: -1449.109+/-628.347  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6022.476+/-3027.807  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

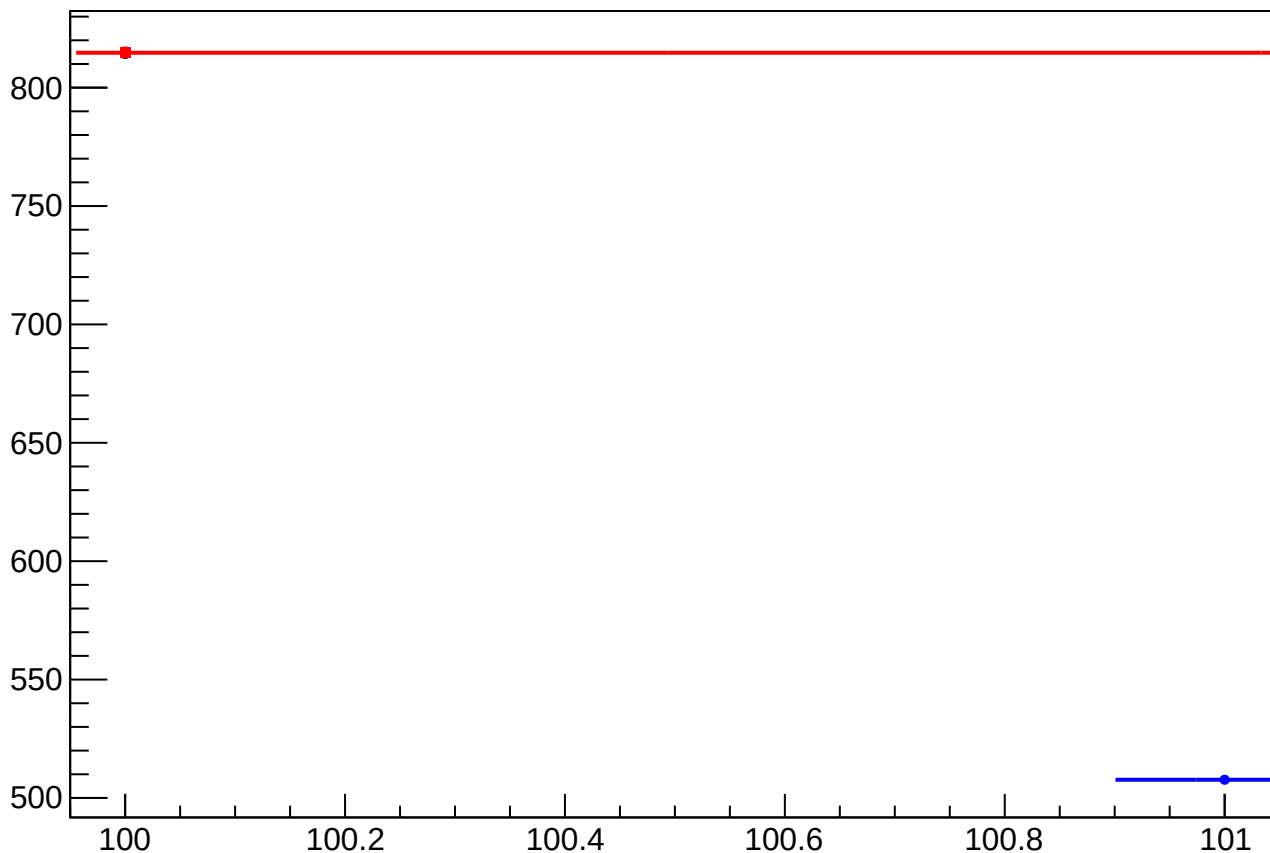
Right: -1140.617+/-615.238  $\chi^2/\text{NDF}$ : 5.8/1

In: -1449.109+/-628.347  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1140.617+/-615.238  $\chi^2/\text{NDF}$ : 5.8/1

asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 507.688 $\pm$ 0.444  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 814.746 $\pm$ 2.141  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 520.366 $\pm$ 0.435  $\chi^2$ /NDF: 19719.8/1

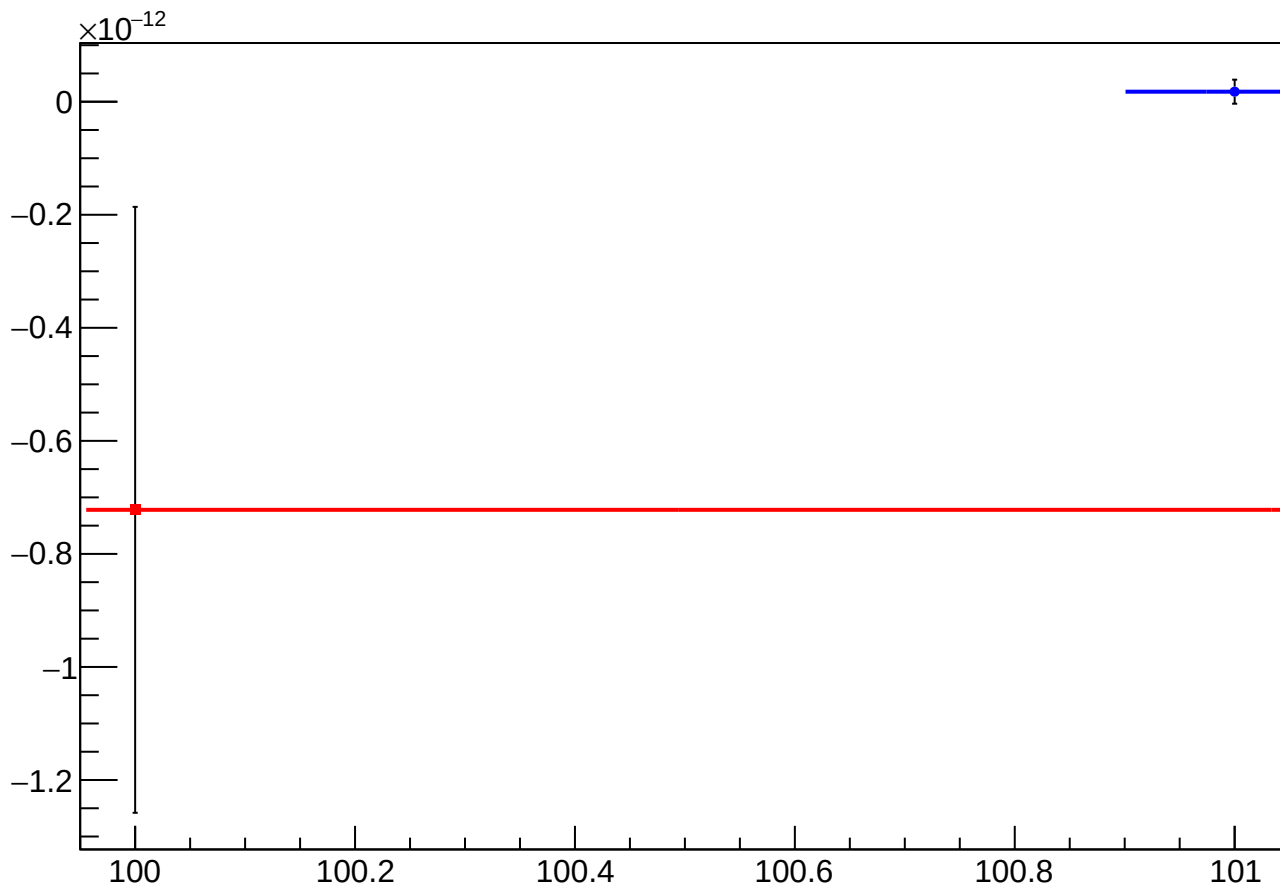
In: 507.688 $\pm$ 0.444  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 520.366 $\pm$ 0.435  $\chi^2$ /NDF: 19719.8/1



asym\_sam\_15\_37\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

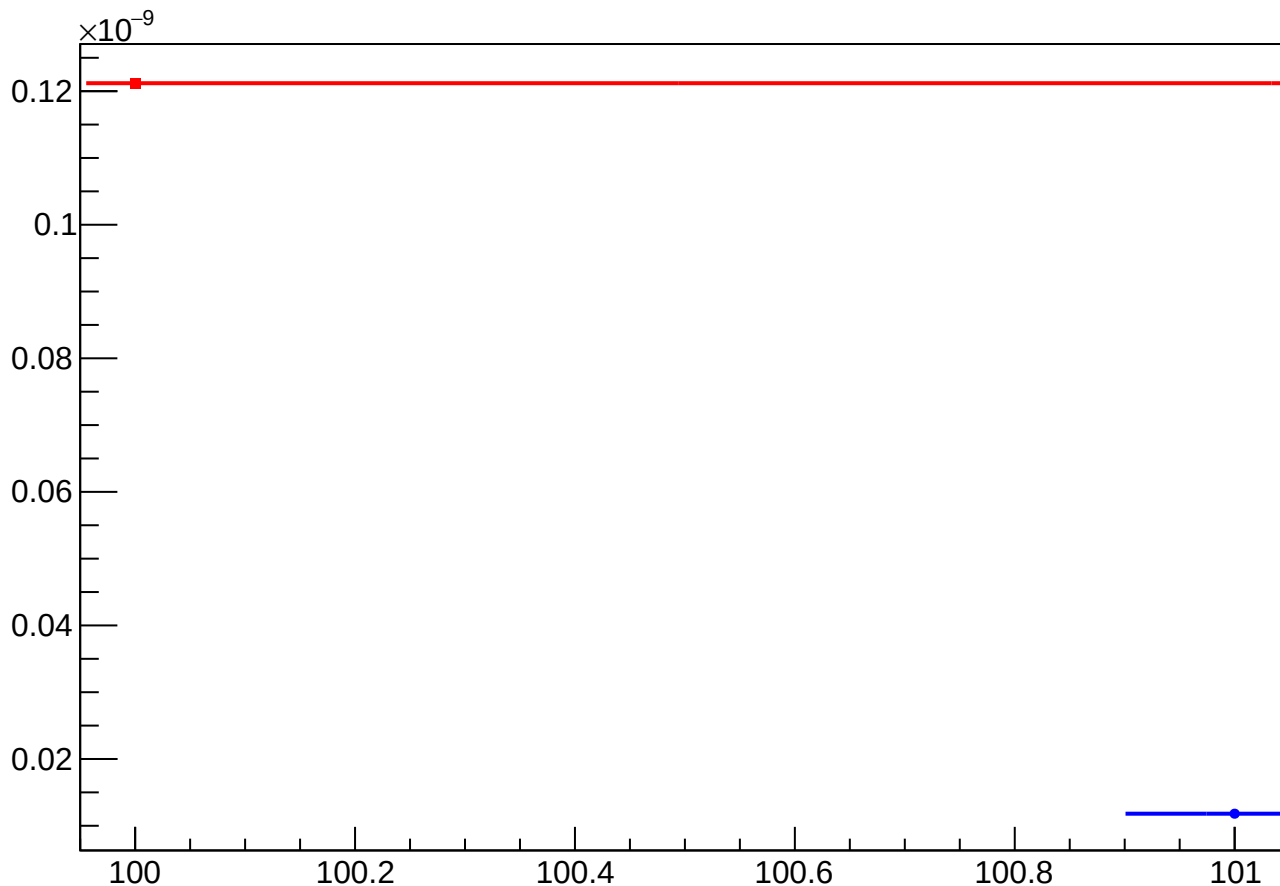
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.9/1

asym\_sam\_15\_37\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

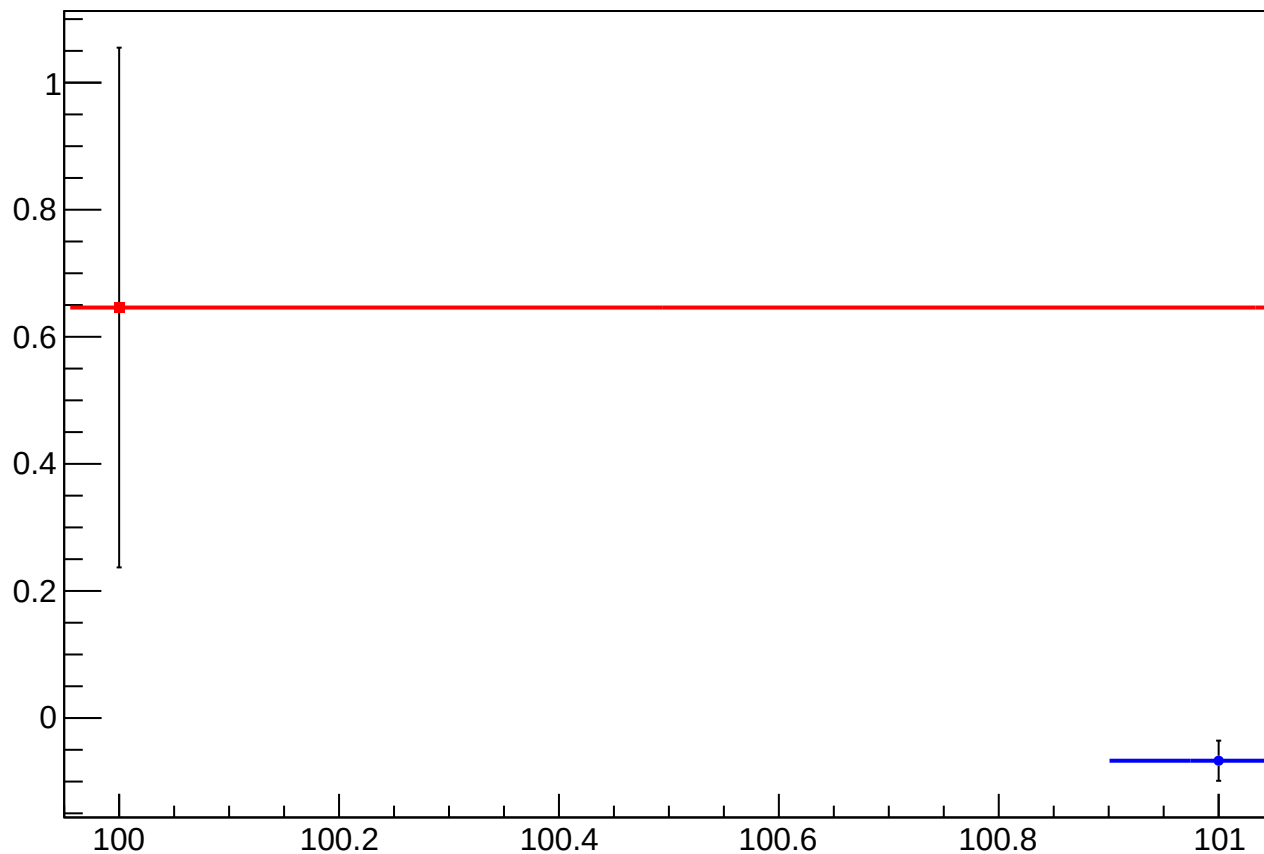
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 83165.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 83165.4/1

asym\_sam\_15\_37\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.067 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.646 $\pm$ 0.409  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

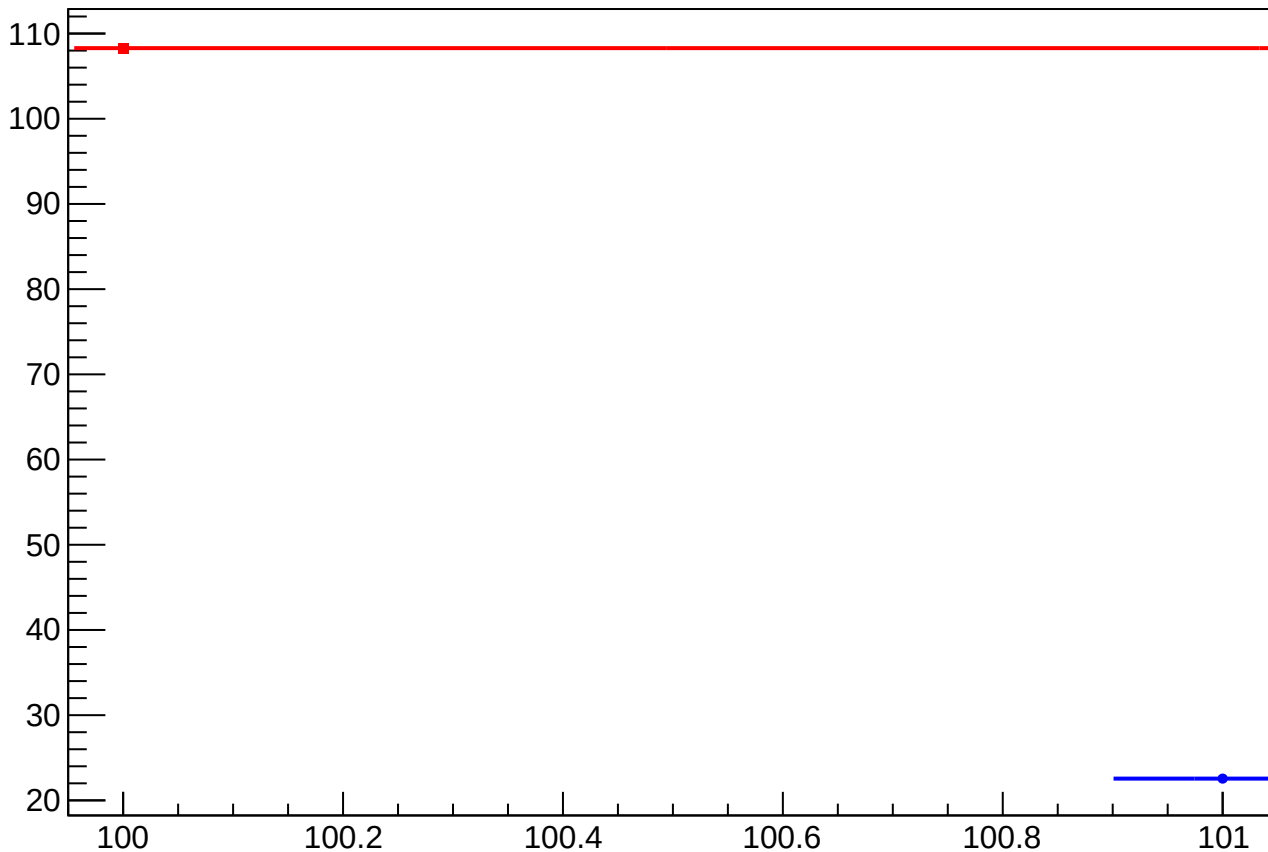
Right: -0.063 $\pm$ 0.032  $\chi^2$ /NDF: 3.0/1

In: -0.067 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.063 $\pm$ 0.032  $\chi^2$ /NDF: 3.0/1

asym\_sam\_15\_37\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 22.555+/-0.022  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 108.288+/-0.289  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

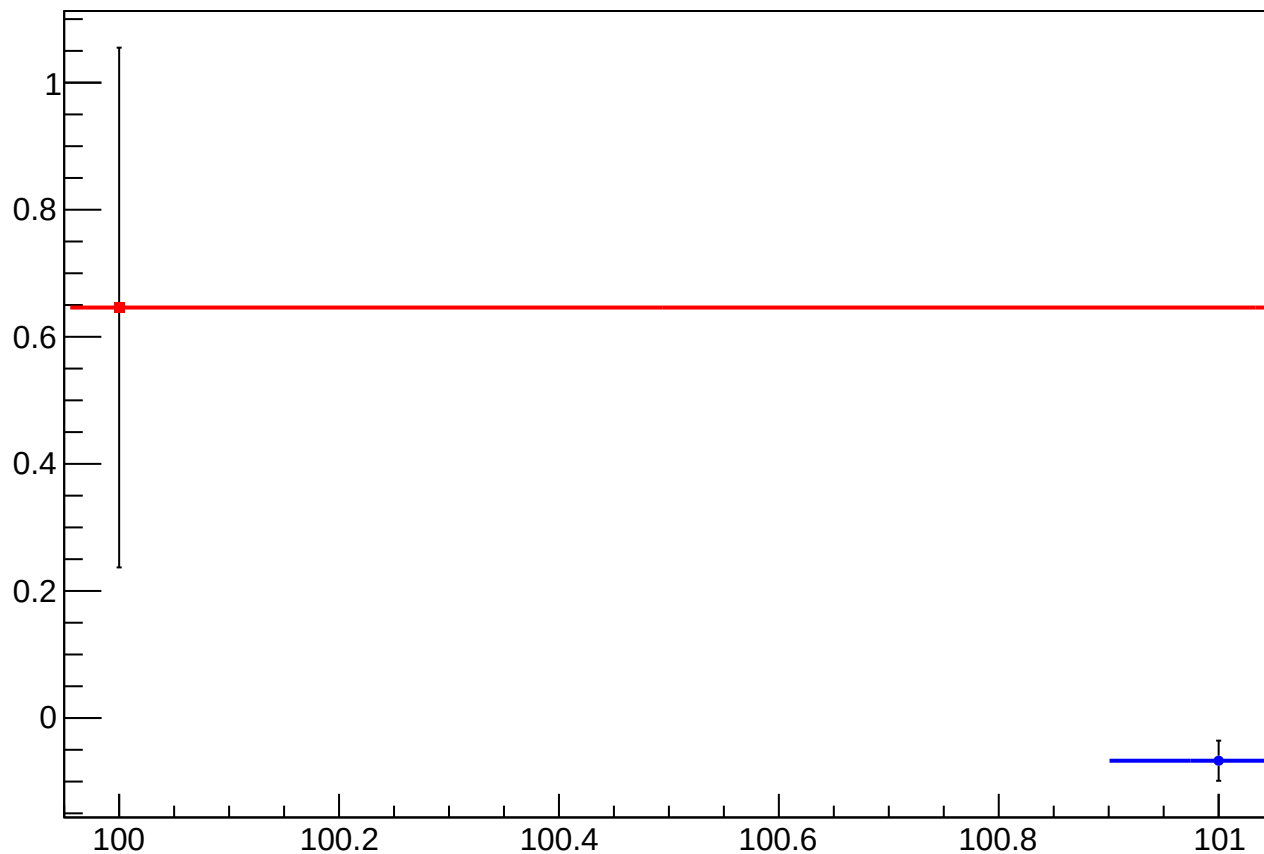
Right: 23.063+/-0.022  $\chi^2/\text{NDF}$ : 87358.8/1

In: 22.555+/-0.022  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 23.063+/-0.022  $\chi^2/\text{NDF}$ : 87358.8/1

asym\_sam\_15\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.067 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.646 $\pm$ 0.409  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

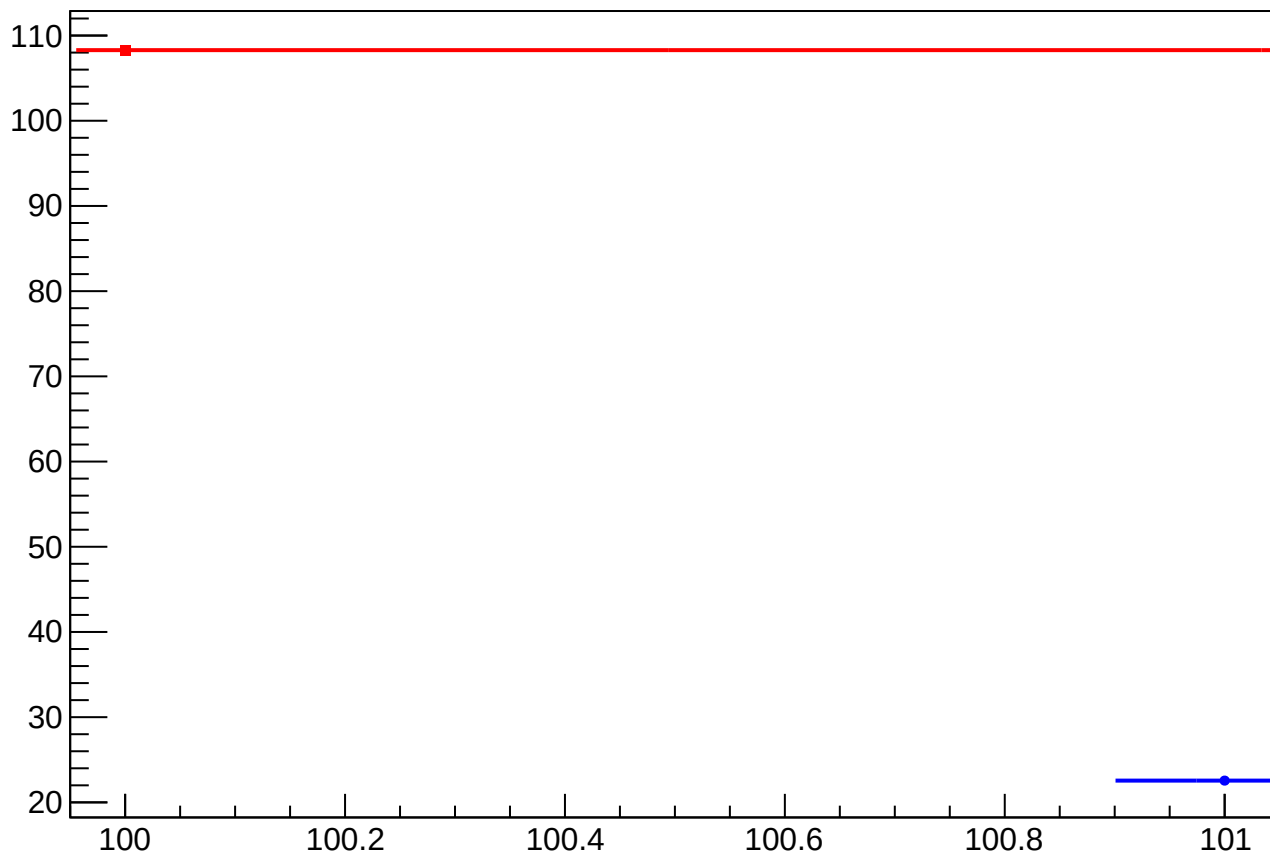
Right: -0.063 $\pm$ 0.032  $\chi^2$ /NDF: 3.0/1

In: -0.067 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.063 $\pm$ 0.032  $\chi^2$ /NDF: 3.0/1

asym\_sam\_15\_37\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 22.555 $\pm$ 0.022  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 108.288 $\pm$ 0.289  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

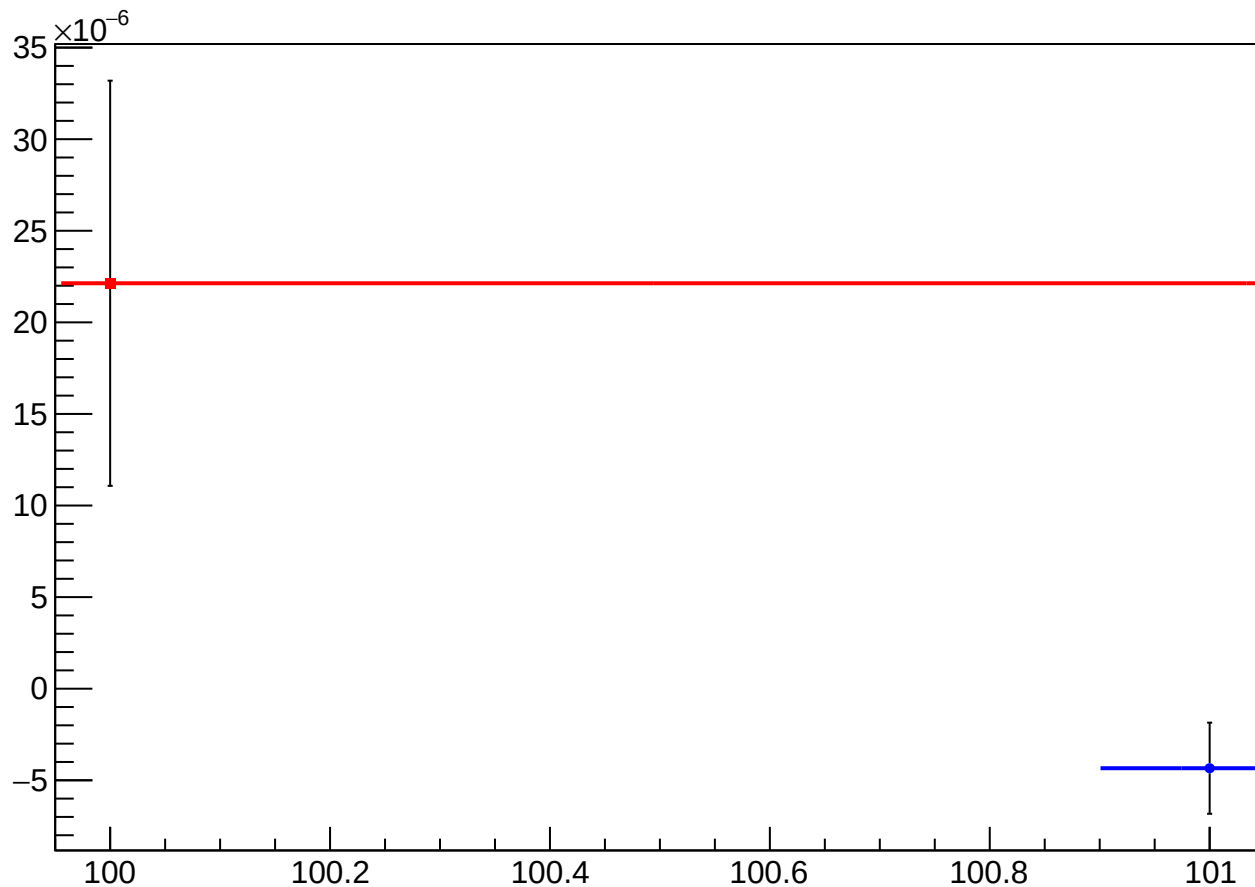
Right: 23.063 $\pm$ 0.022  $\chi^2$ /NDF: 87358.8/1

In: 22.555 $\pm$ 0.022  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.063 $\pm$ 0.022  $\chi^2$ /NDF: 87358.8/1

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

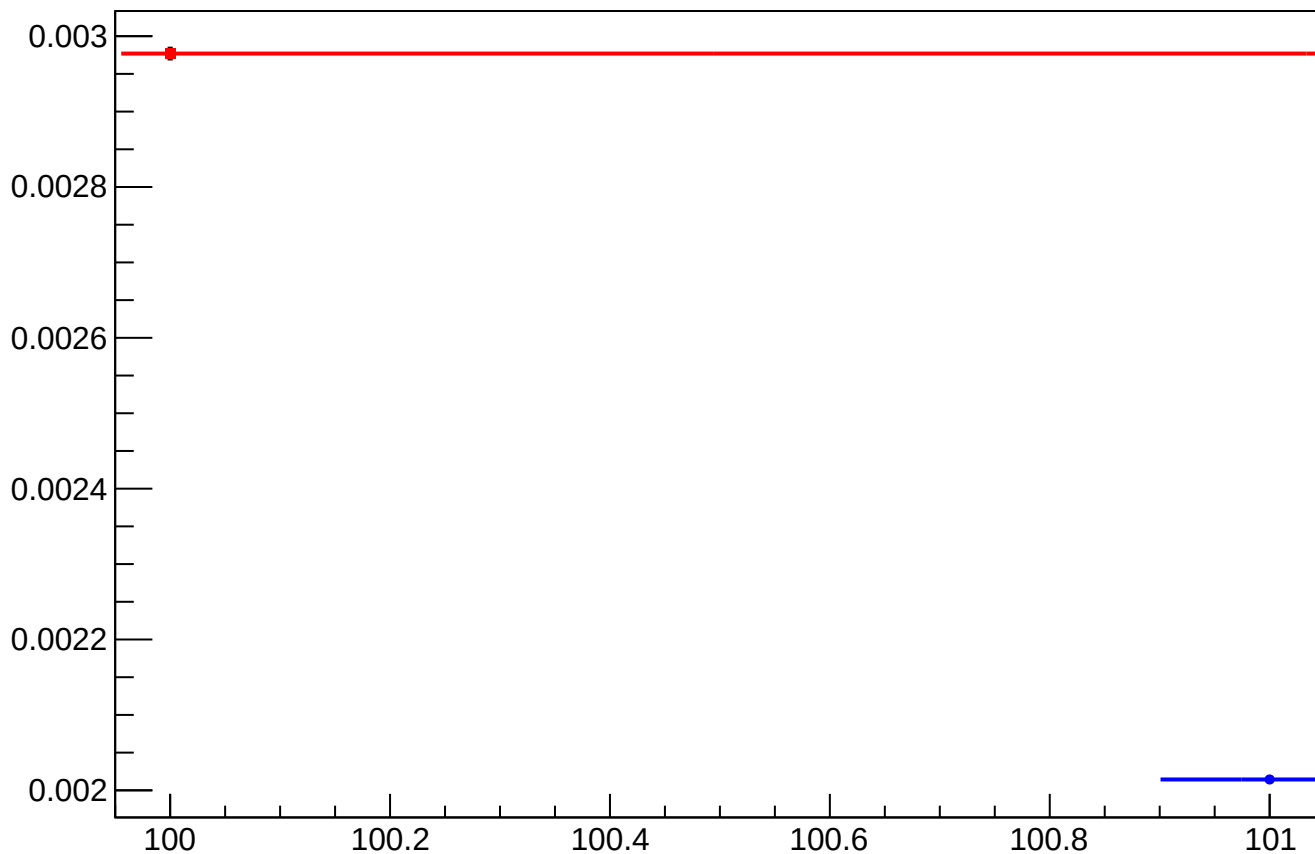
Right: -0.000+/-0.000  $\chi^2$ /NDF: 5.5/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 5.5/1

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 14418.5/1

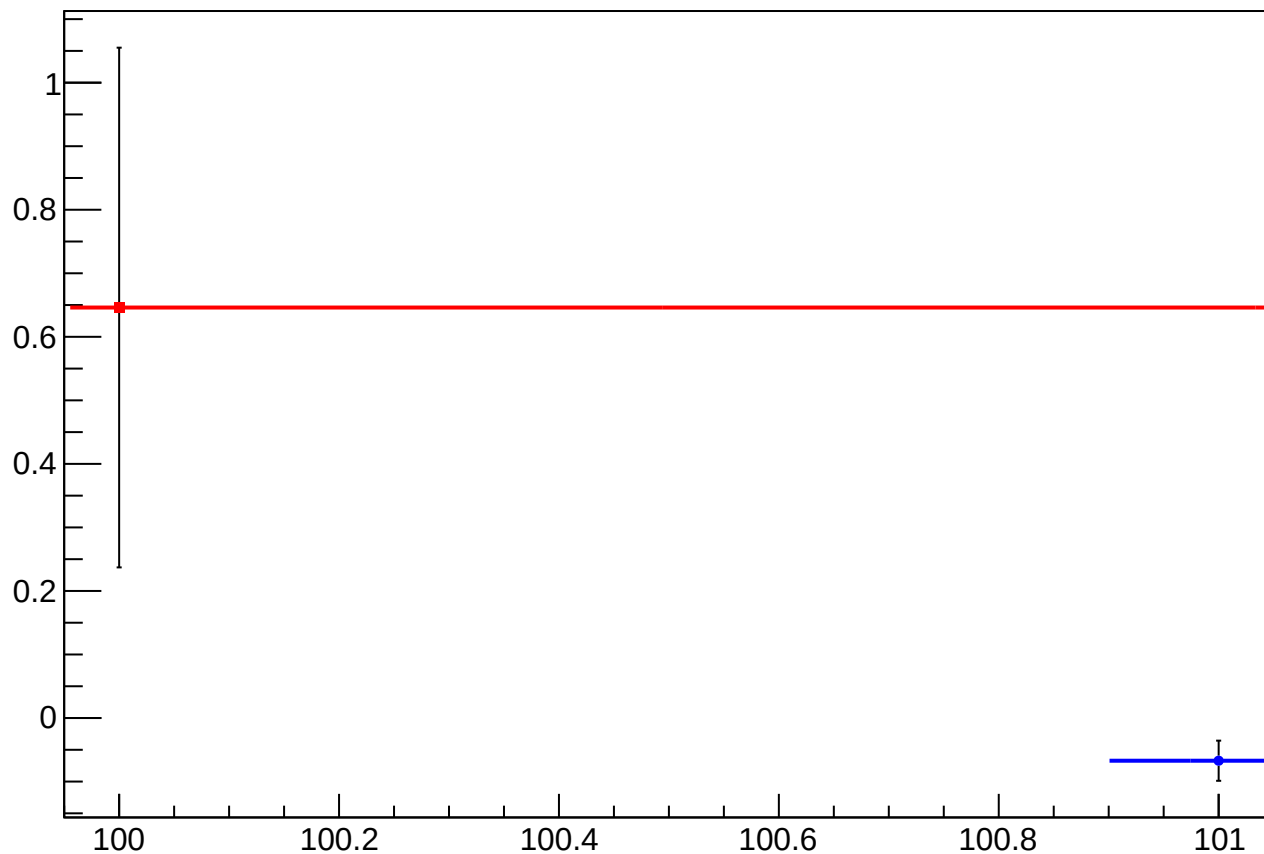
In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 14418.5/1



asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.067 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.646 $\pm$ 0.409  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

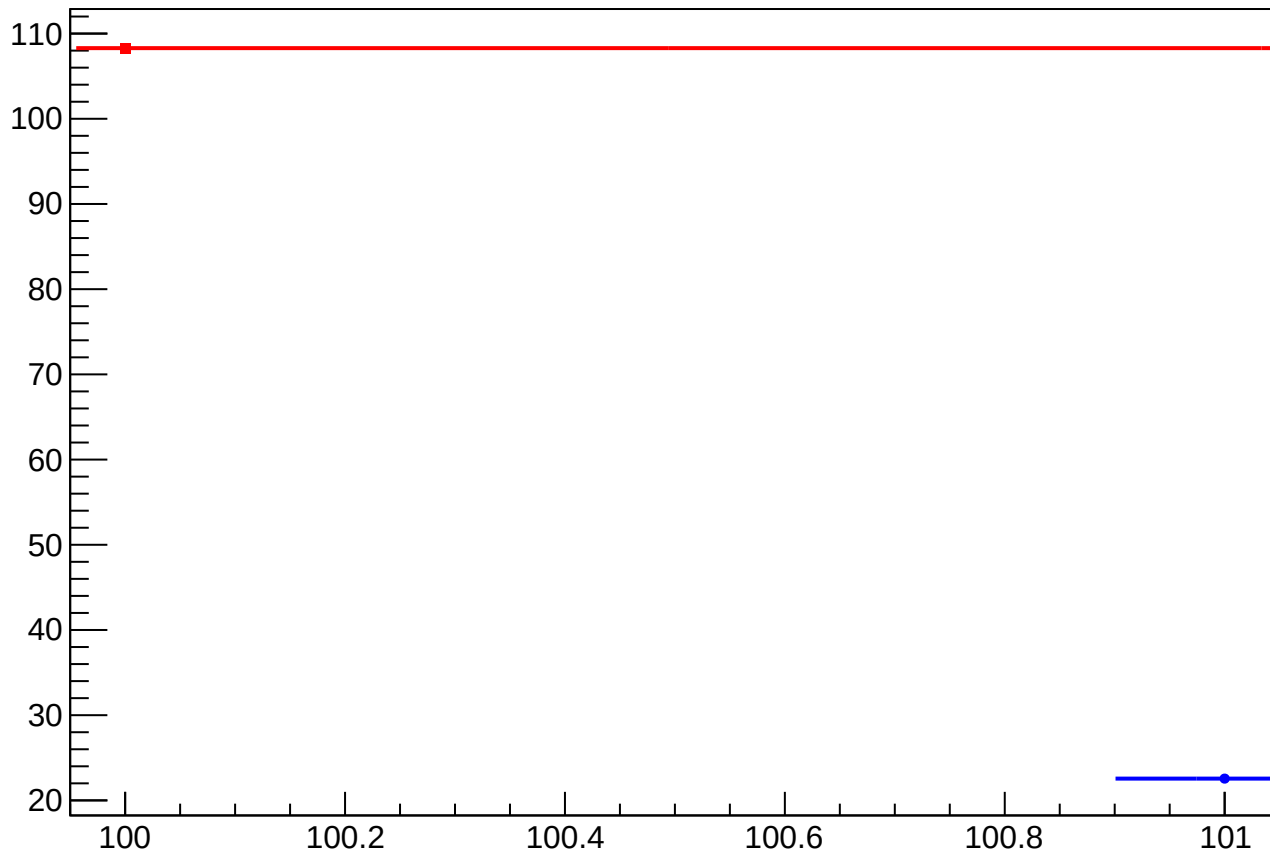
Right: -0.063 $\pm$ 0.032  $\chi^2$ /NDF: 3.0/1

In: -0.067 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.063 $\pm$ 0.032  $\chi^2$ /NDF: 3.0/1

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 22.556 $\pm$ 0.022  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 108.291 $\pm$ 0.289  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

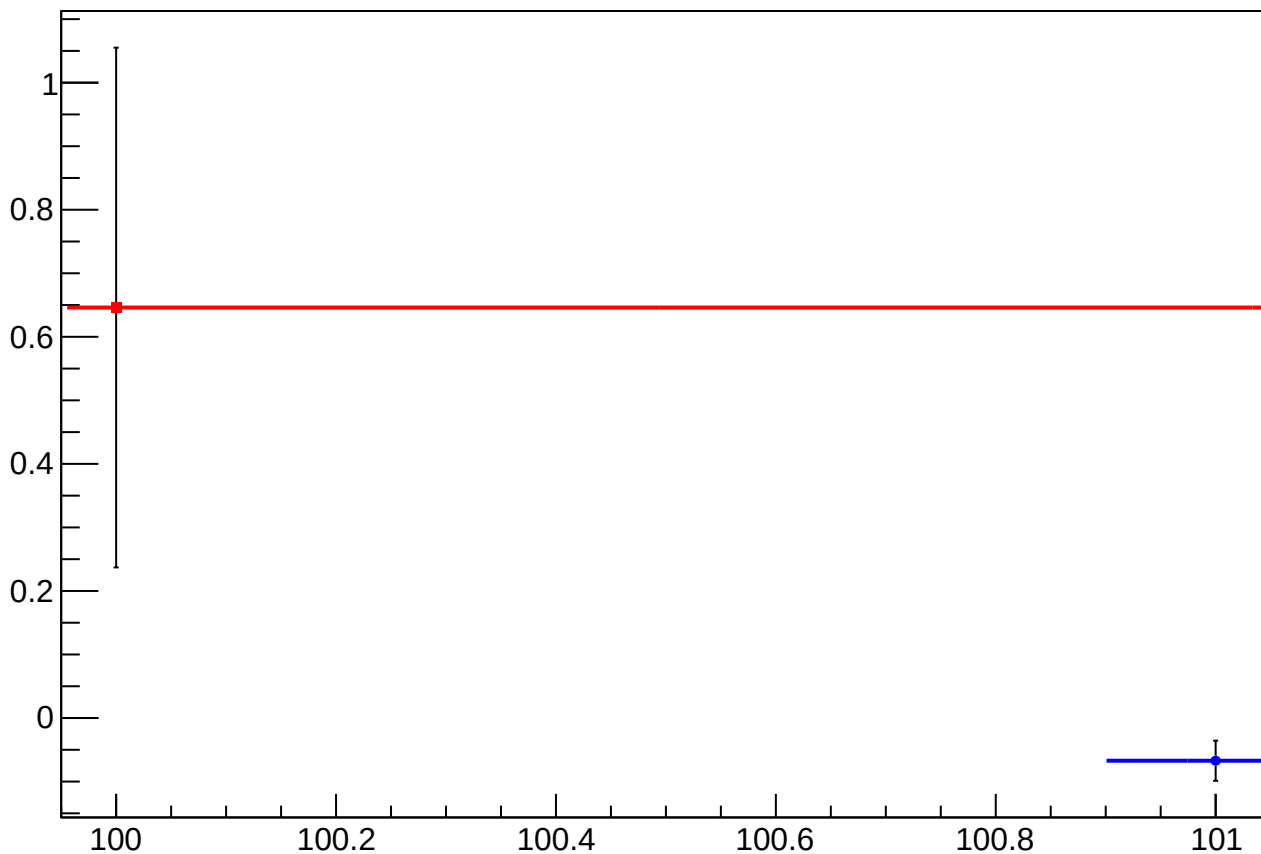
Right: 23.065 $\pm$ 0.022  $\chi^2$ /NDF: 87357.0/1

In: 22.556 $\pm$ 0.022  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.065 $\pm$ 0.022  $\chi^2$ /NDF: 87357.0/1

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.067 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.646 $\pm$ 0.409  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

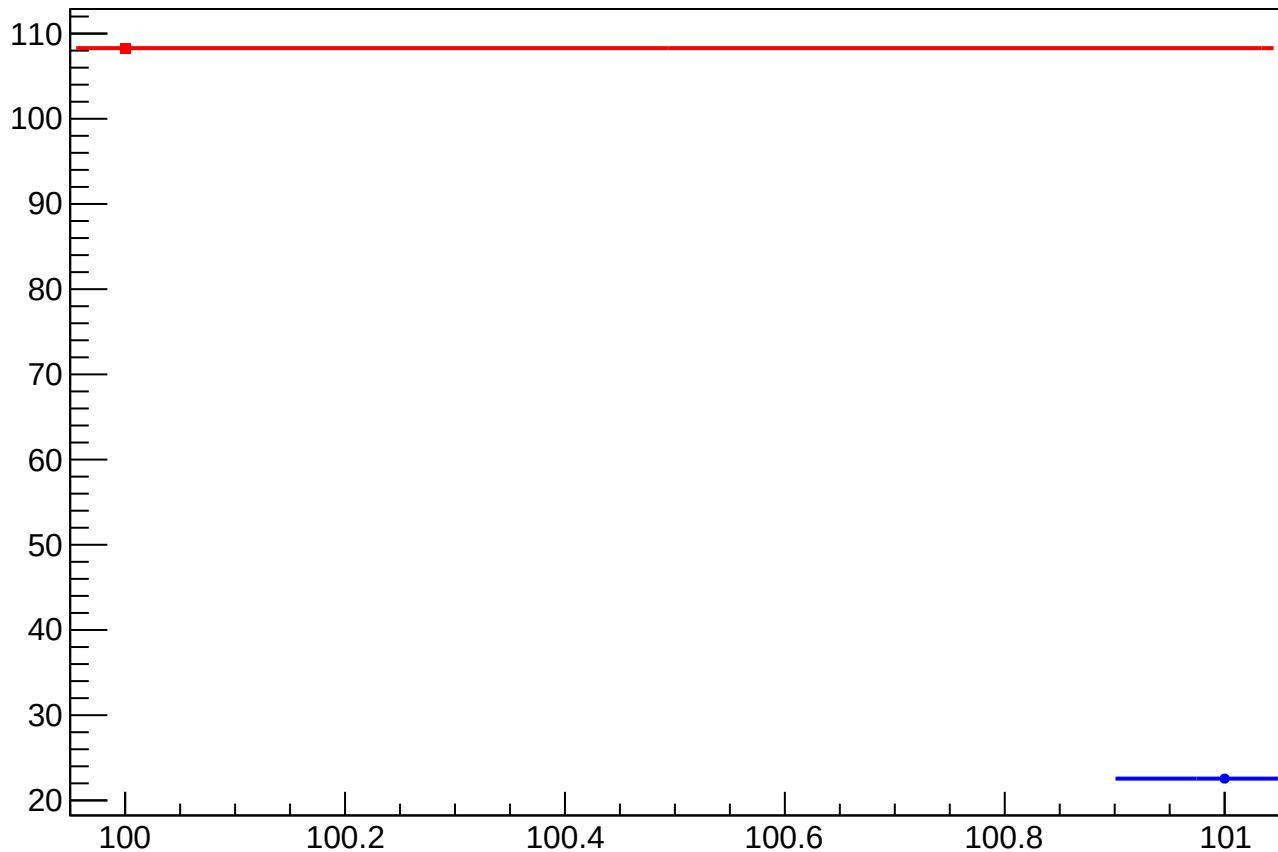
Right: -0.063 $\pm$ 0.032  $\chi^2$ /NDF: 3.0/1

In: -0.067 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.063 $\pm$ 0.032  $\chi^2$ /NDF: 3.0/1

asym\_sam\_15\_37\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 22.556 $\pm$ 0.022  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 108.291 $\pm$ 0.289  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

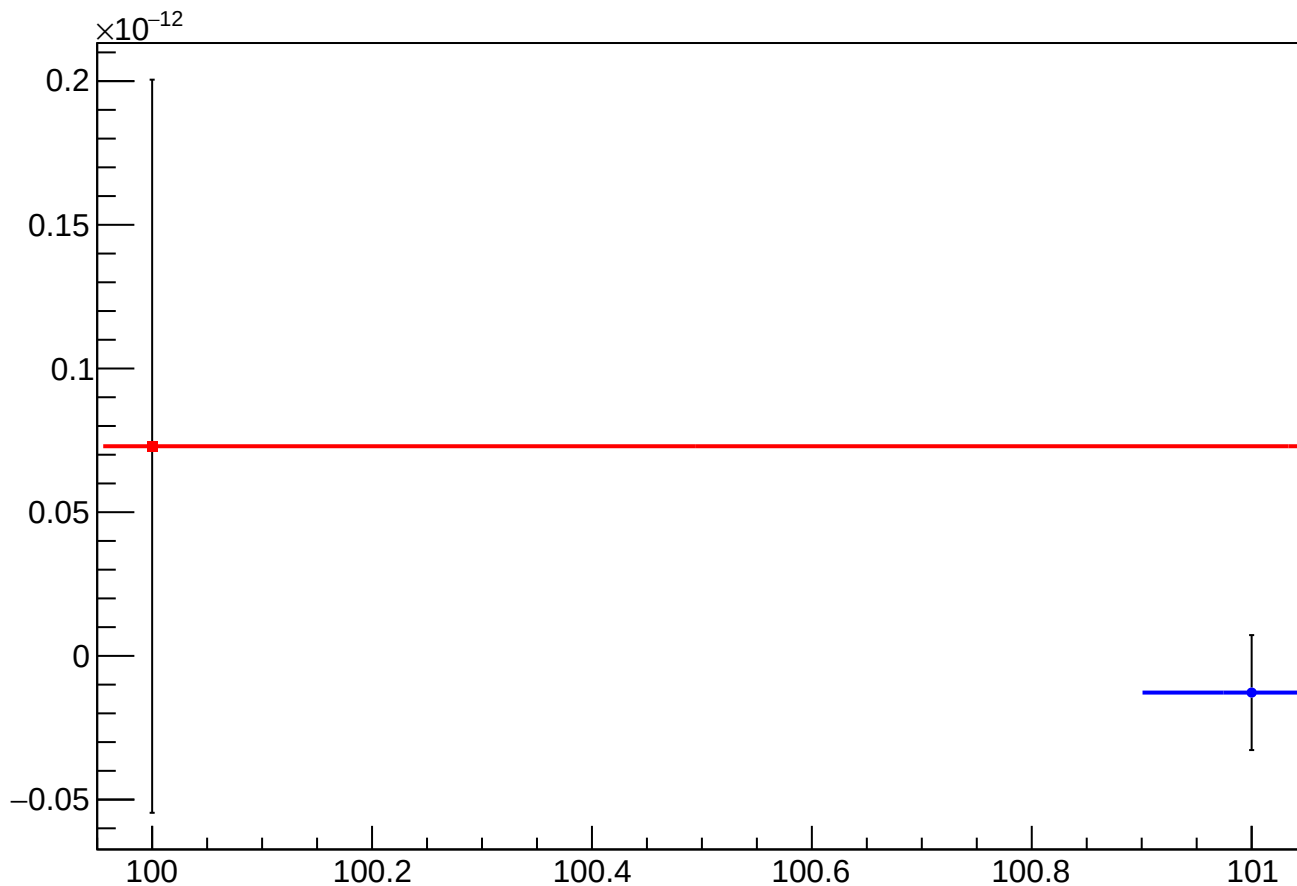
Right: 23.065 $\pm$ 0.022  $\chi^2$ /NDF: 87357.0/1

In: 22.556 $\pm$ 0.022  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.065 $\pm$ 0.022  $\chi^2$ /NDF: 87357.0/1

asym\_sam\_15\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

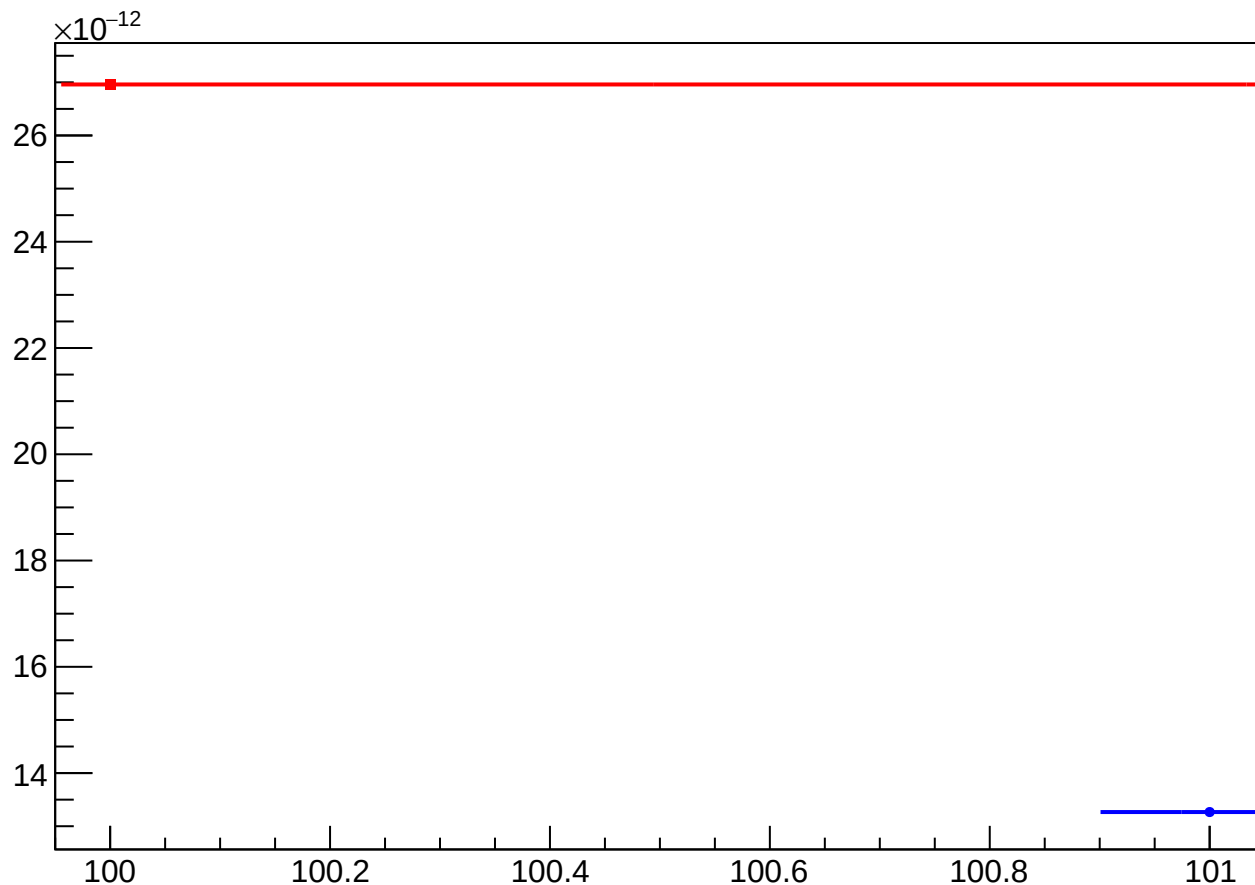
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.4/1

asym\_sam\_15\_37\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

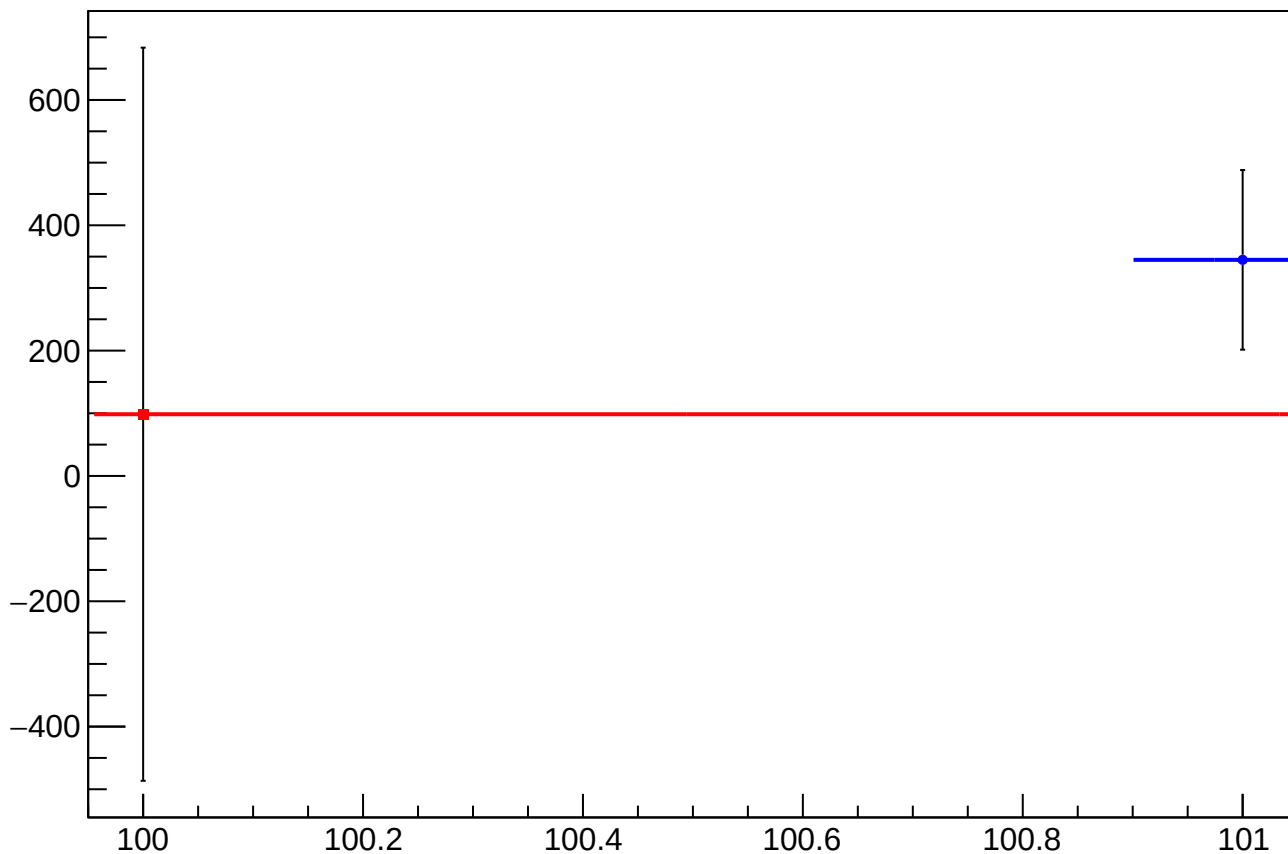
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22496.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 22496.5/1

reg\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 344.864 $\pm$ 143.322  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 98.480 $\pm$ 584.986  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

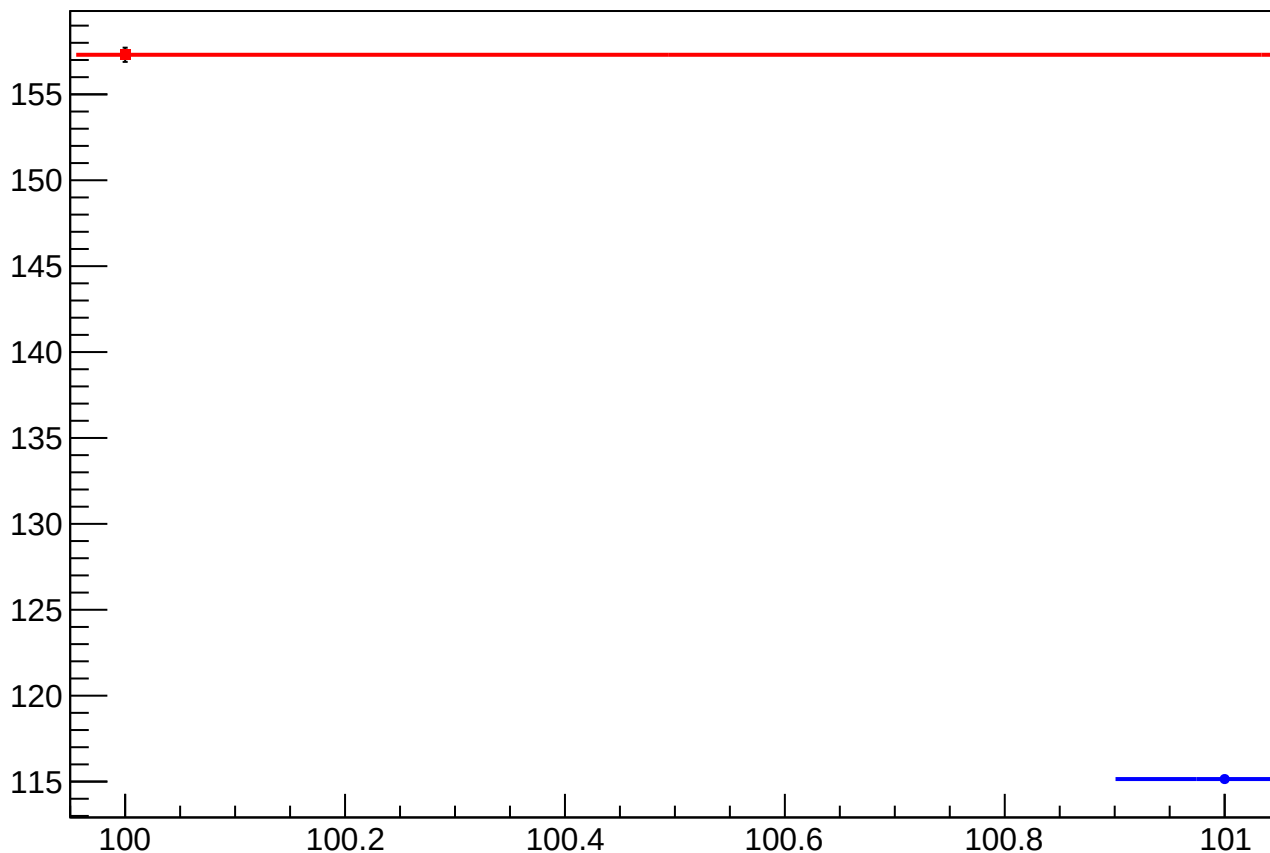
Right: 330.912 $\pm$ 139.205  $\chi^2$ /NDF: 0.2/1

In: 344.864 $\pm$ 143.322  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 330.912 $\pm$ 139.205  $\chi^2$ /NDF: 0.2/1

reg\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 115.147 $\pm$ 0.101  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 157.303 $\pm$ 0.414  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 117.534 $\pm$ 0.098  $\chi^2$ /NDF: 9798.5/1

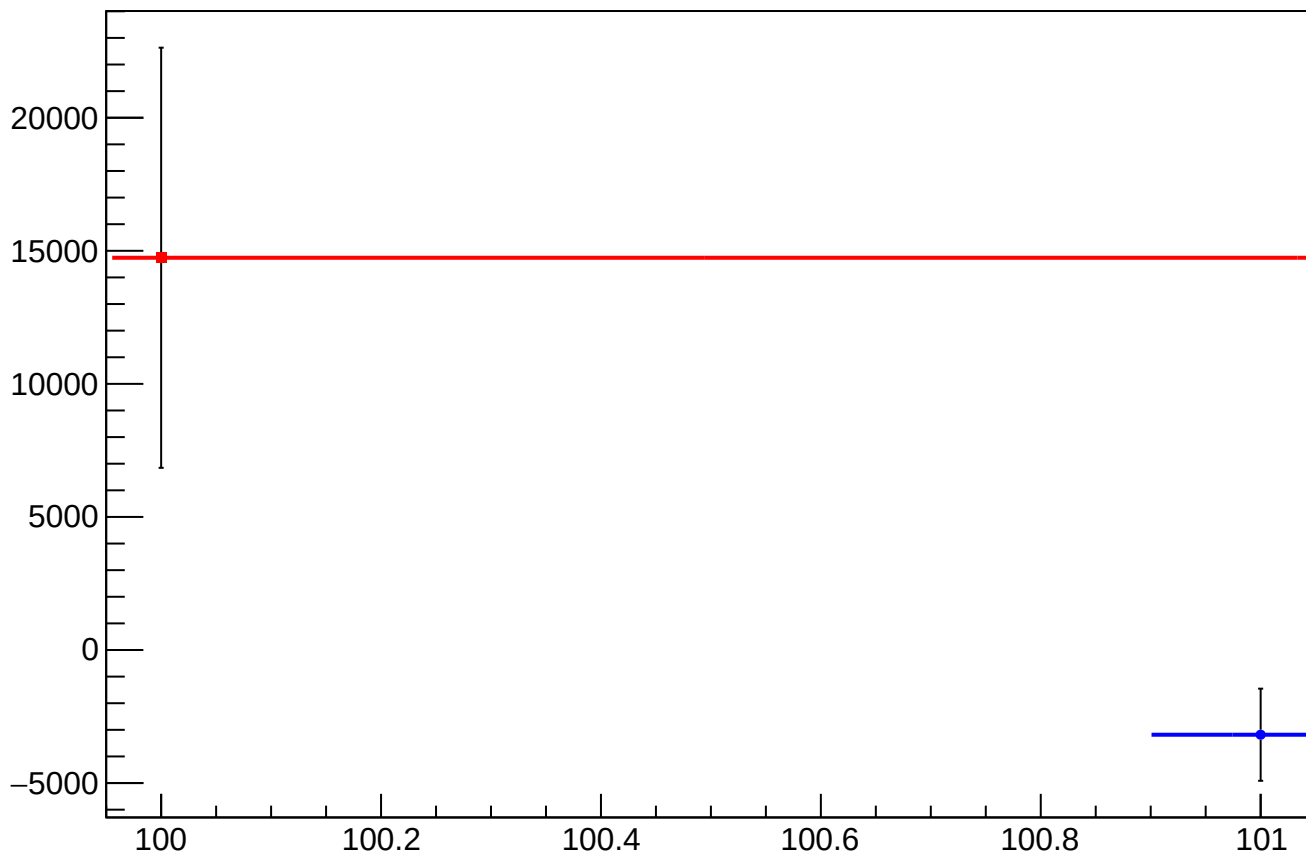
In: 115.147 $\pm$ 0.101  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.534 $\pm$ 0.098  $\chi^2$ /NDF: 9798.5/1



asym\_sam\_24\_68\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -3184.001+/-1731.145  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14738.990+/-7894.202  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

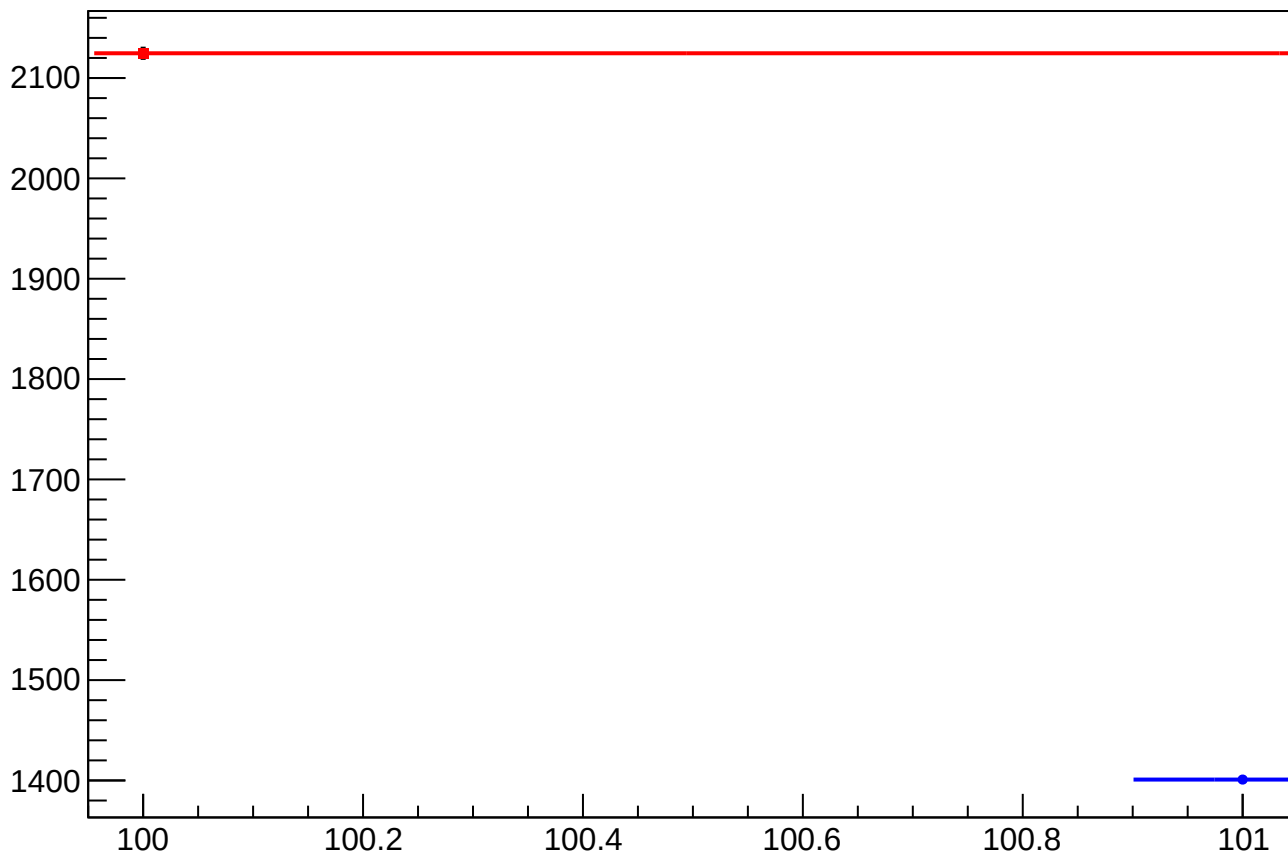
Right: -2361.640+/-1690.964  $\chi^2/\text{NDF}$ : 4.9/1

In: -3184.001+/-1731.145  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2361.640+/-1690.964  $\chi^2/\text{NDF}$ : 4.9/1

asym\_sam\_24\_68\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1400.886 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2124.673 $\pm$ 5.582  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

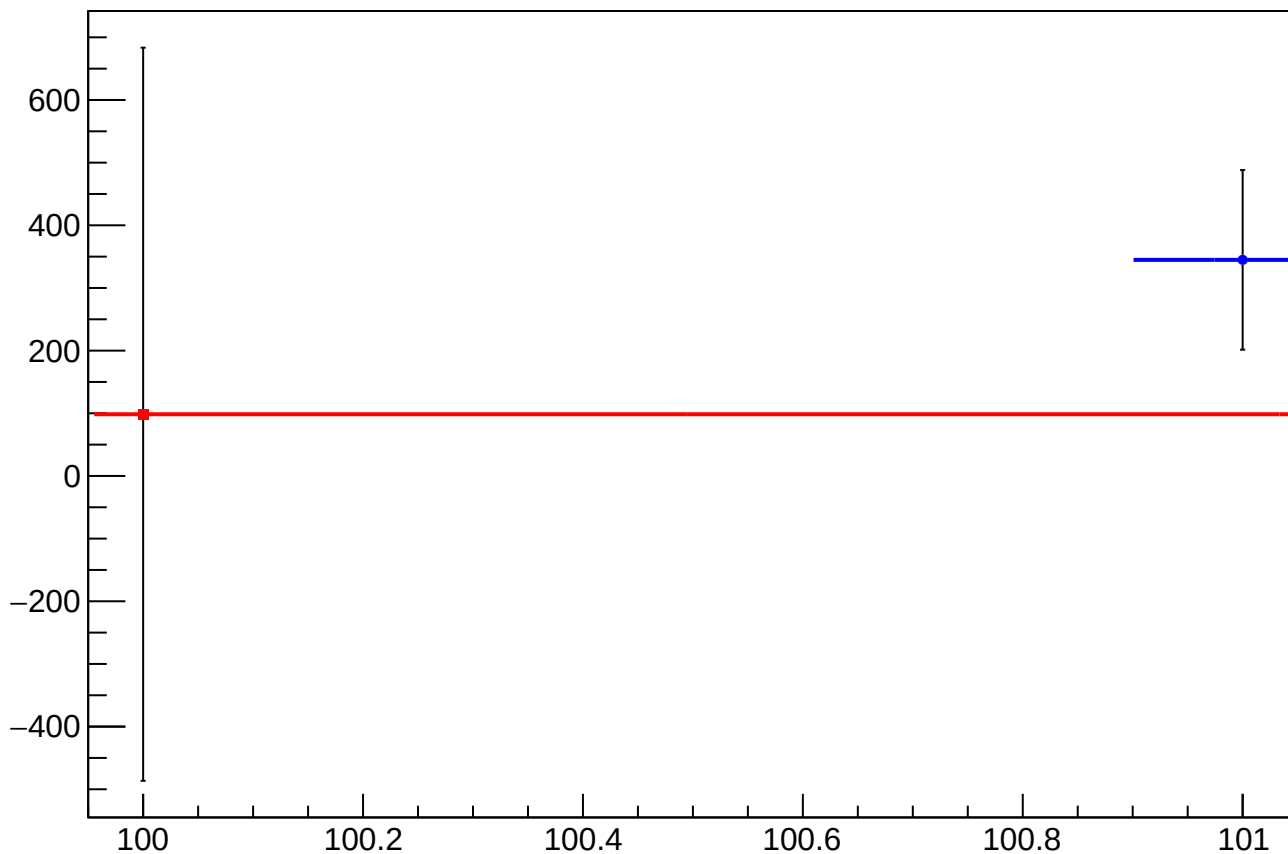
Right: 1434.095 $\pm$ 1.196  $\chi^2$ /NDF: 16041.2/1

In: 1400.886 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1434.095 $\pm$ 1.196  $\chi^2$ /NDF: 16041.2/1

cor\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 344.855+/-143.322  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 98.492+/-584.986  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

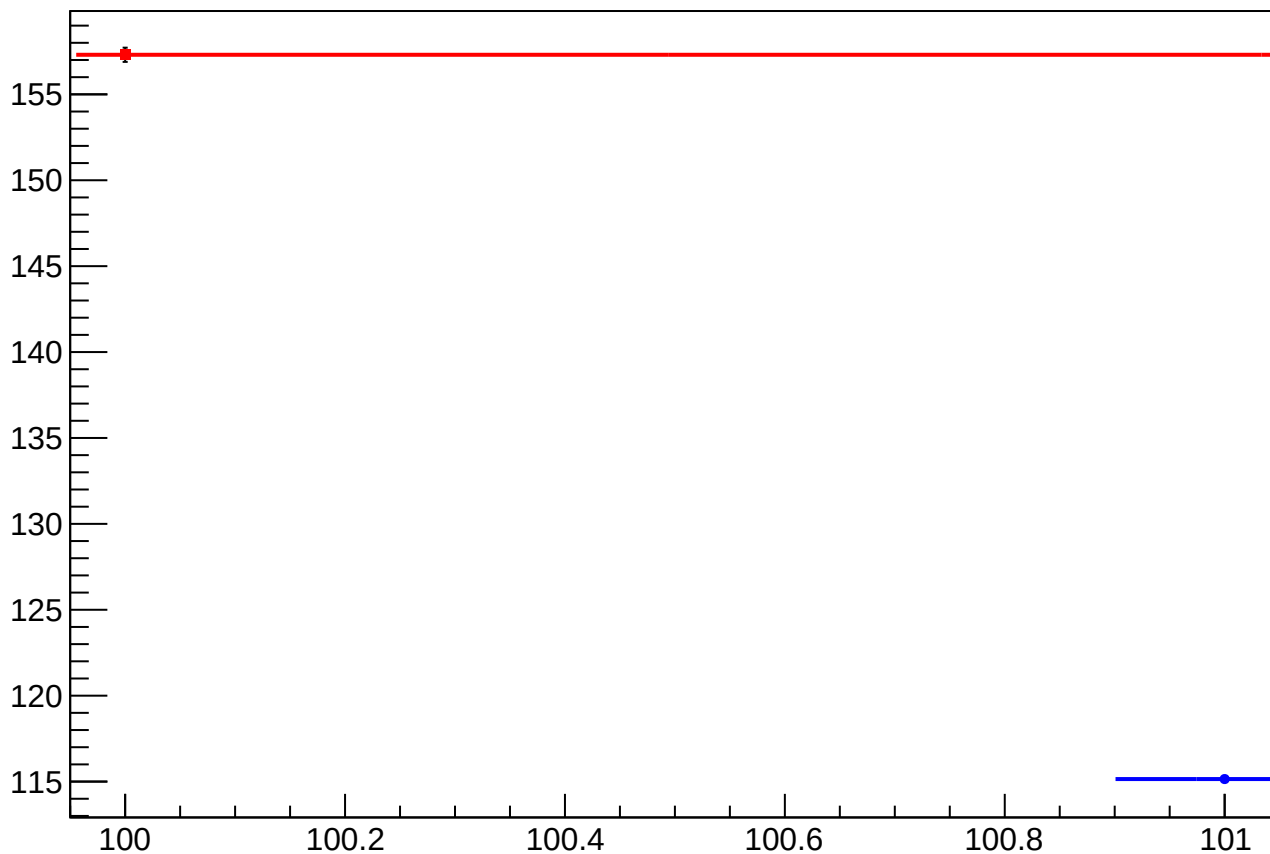
Right: 330.905+/-139.205  $\chi^2$ /NDF: 0.2/1

In: 344.855+/-143.322  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 330.905+/-139.205  $\chi^2$ /NDF: 0.2/1

cor\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 115.147 $\pm$ 0.101  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 157.303 $\pm$ 0.414  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

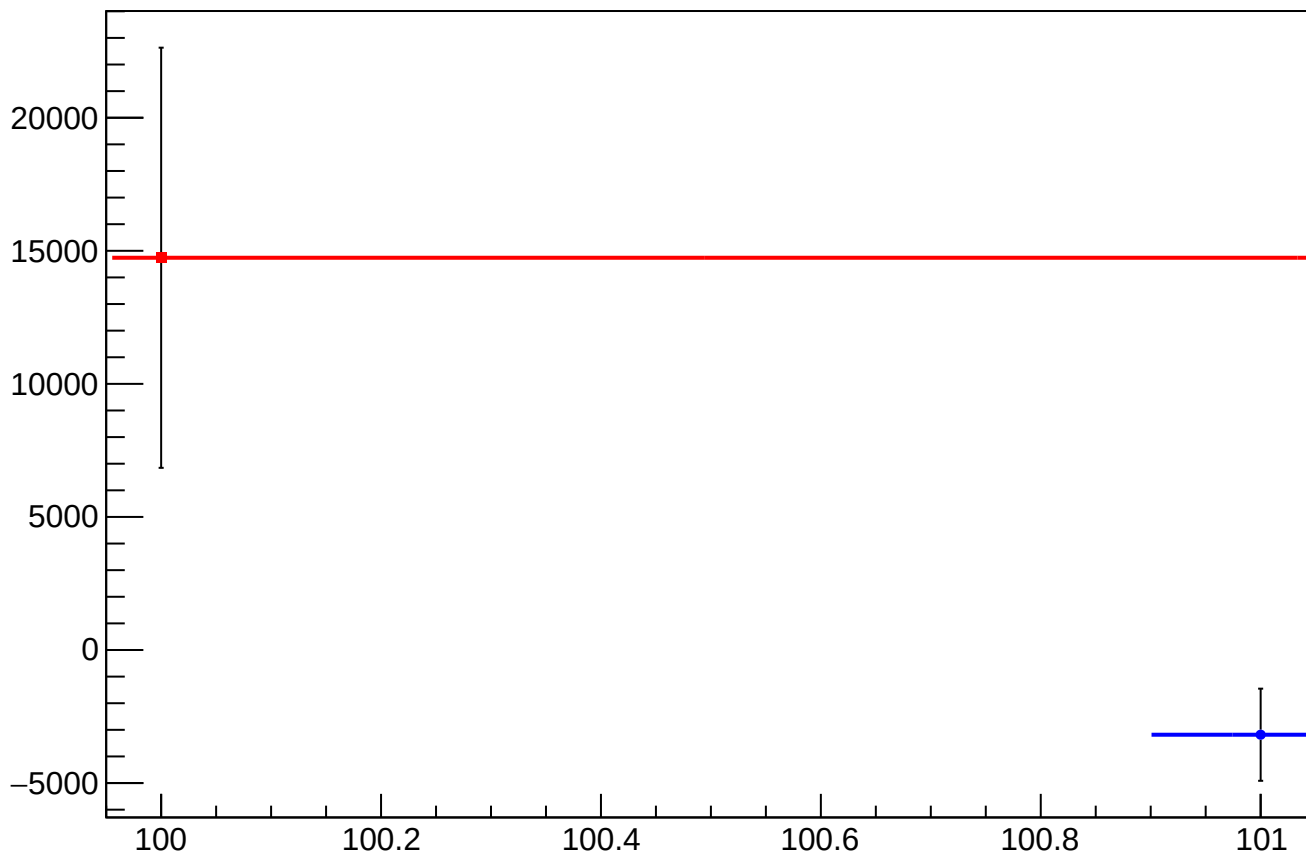
Right: 117.534 $\pm$ 0.098  $\chi^2$ /NDF: 9798.5/1

In: 115.147 $\pm$ 0.101  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 117.534 $\pm$ 0.098  $\chi^2$ /NDF: 9798.5/1

asym\_sam\_24\_68\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3183.976+/-1731.147  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14738.991+/-7894.206  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

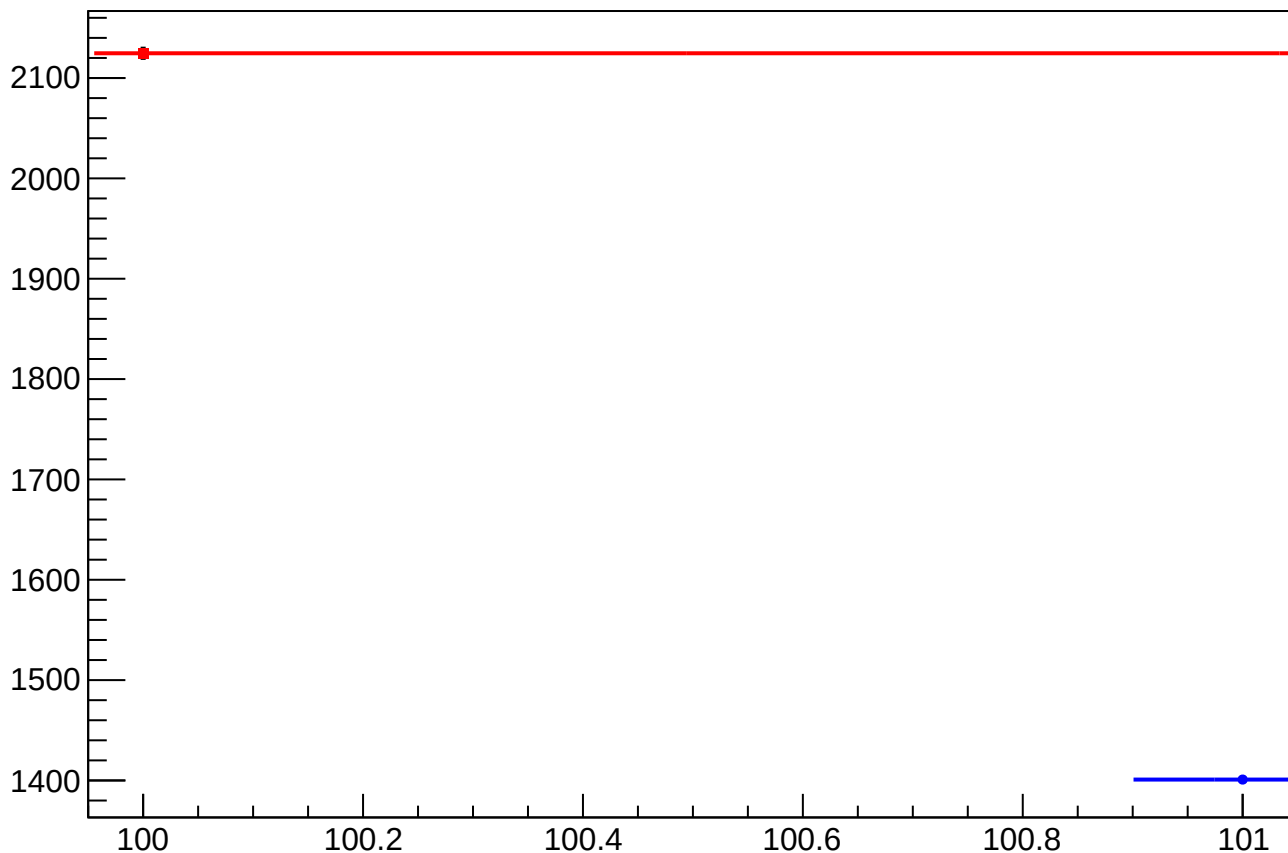
Right: -2361.615+/-1690.965  $\chi^2/\text{NDF}$ : 4.9/1

In: -3183.976+/-1731.147  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2361.615+/-1690.965  $\chi^2/\text{NDF}$ : 4.9/1

asym\_sam\_24\_68\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1400.887 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2124.675 $\pm$ 5.582  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

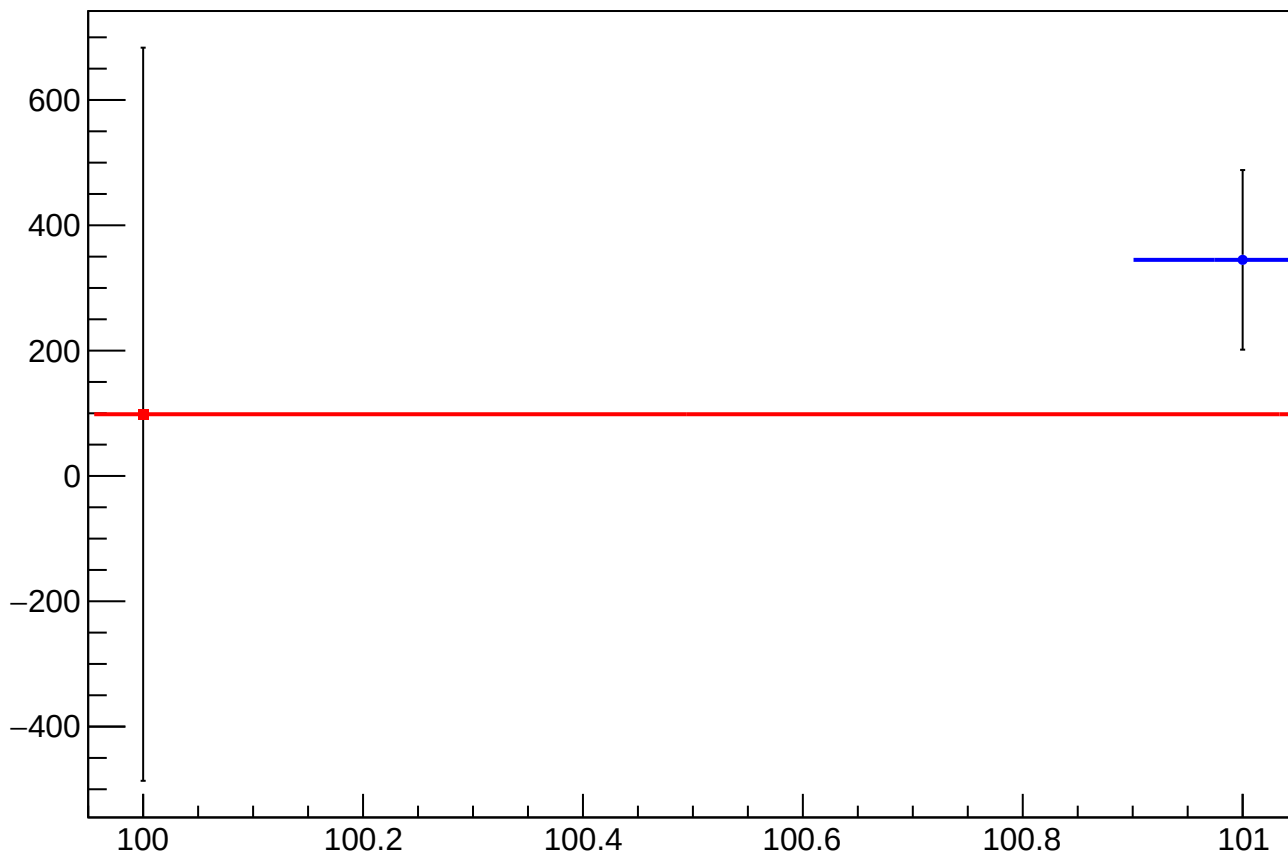
Right: 1434.097 $\pm$ 1.196  $\chi^2$ /NDF: 16041.2/1

In: 1400.887 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1434.097 $\pm$ 1.196  $\chi^2$ /NDF: 16041.2/1

eigen\_cor\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 344.855 $\pm$ 143.322  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 98.492 $\pm$ 584.986  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

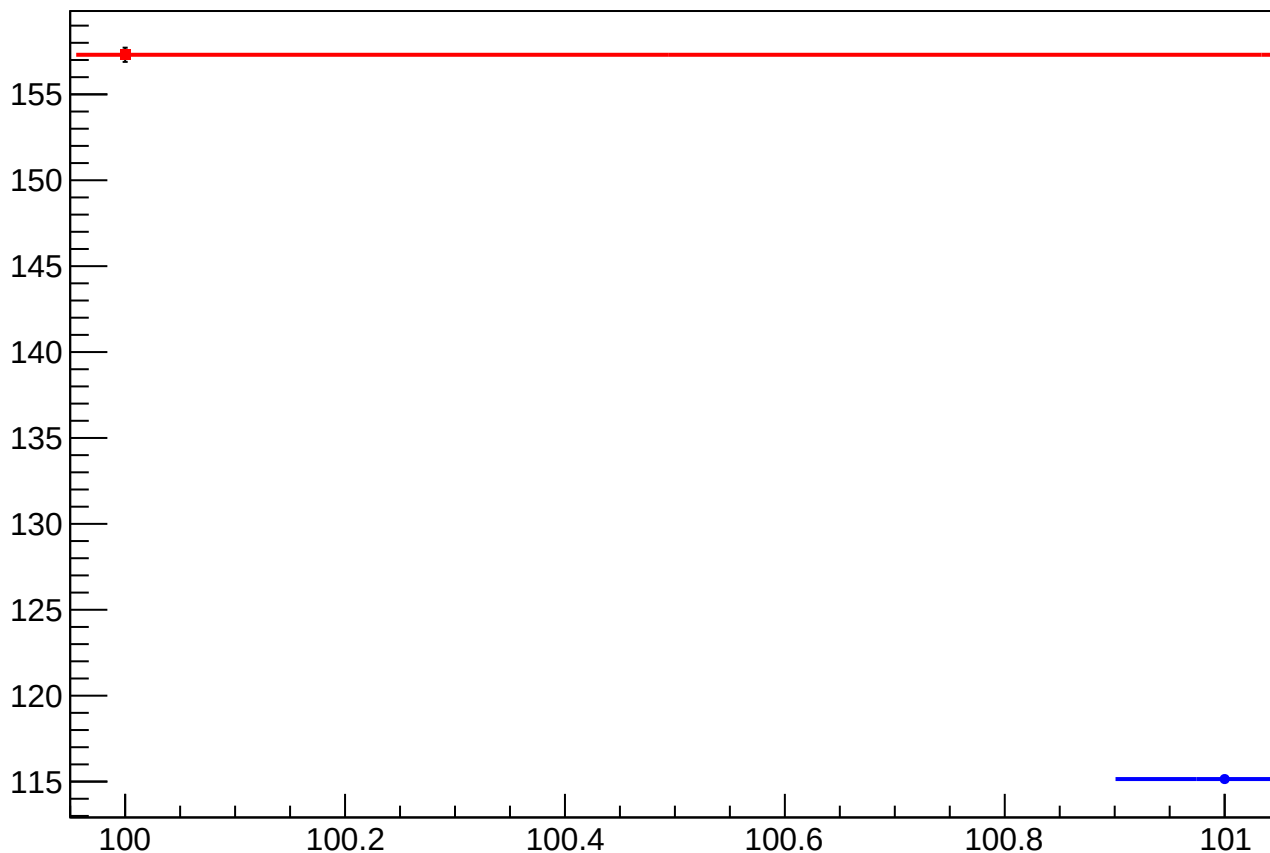
Right: 330.905 $\pm$ 139.205  $\chi^2$ /NDF: 0.2/1

In: 344.855 $\pm$ 143.322  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 330.905 $\pm$ 139.205  $\chi^2$ /NDF: 0.2/1

eigen\_cor\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 115.147 $\pm$ 0.101  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 157.303 $\pm$ 0.414  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 117.534 $\pm$ 0.098  $\chi^2$ /NDF: 9798.5/1

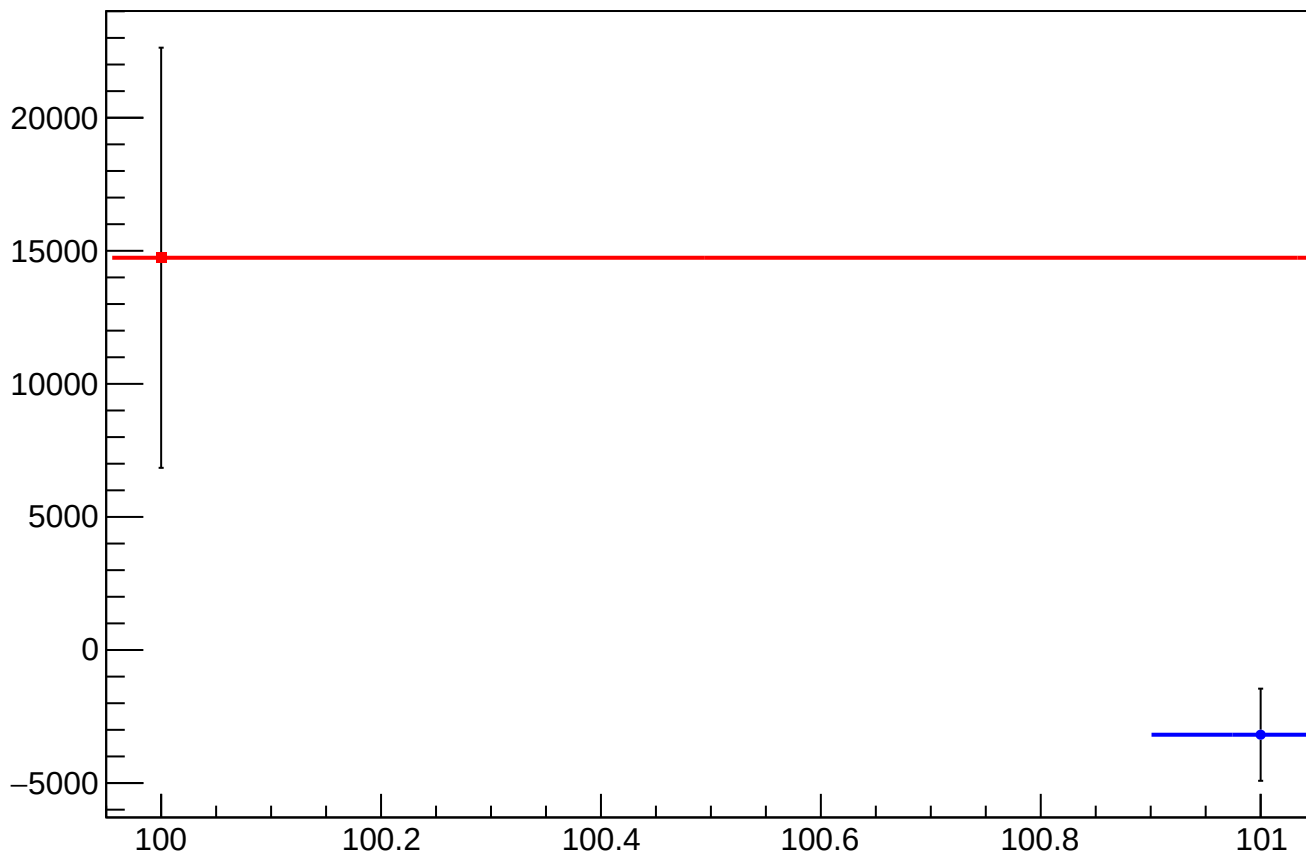
In: 115.147 $\pm$ 0.101  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 117.534 $\pm$ 0.098  $\chi^2$ /NDF: 9798.5/1



asym\_sam\_24\_68\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3183.976+/-1731.147  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14738.991+/-7894.206  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

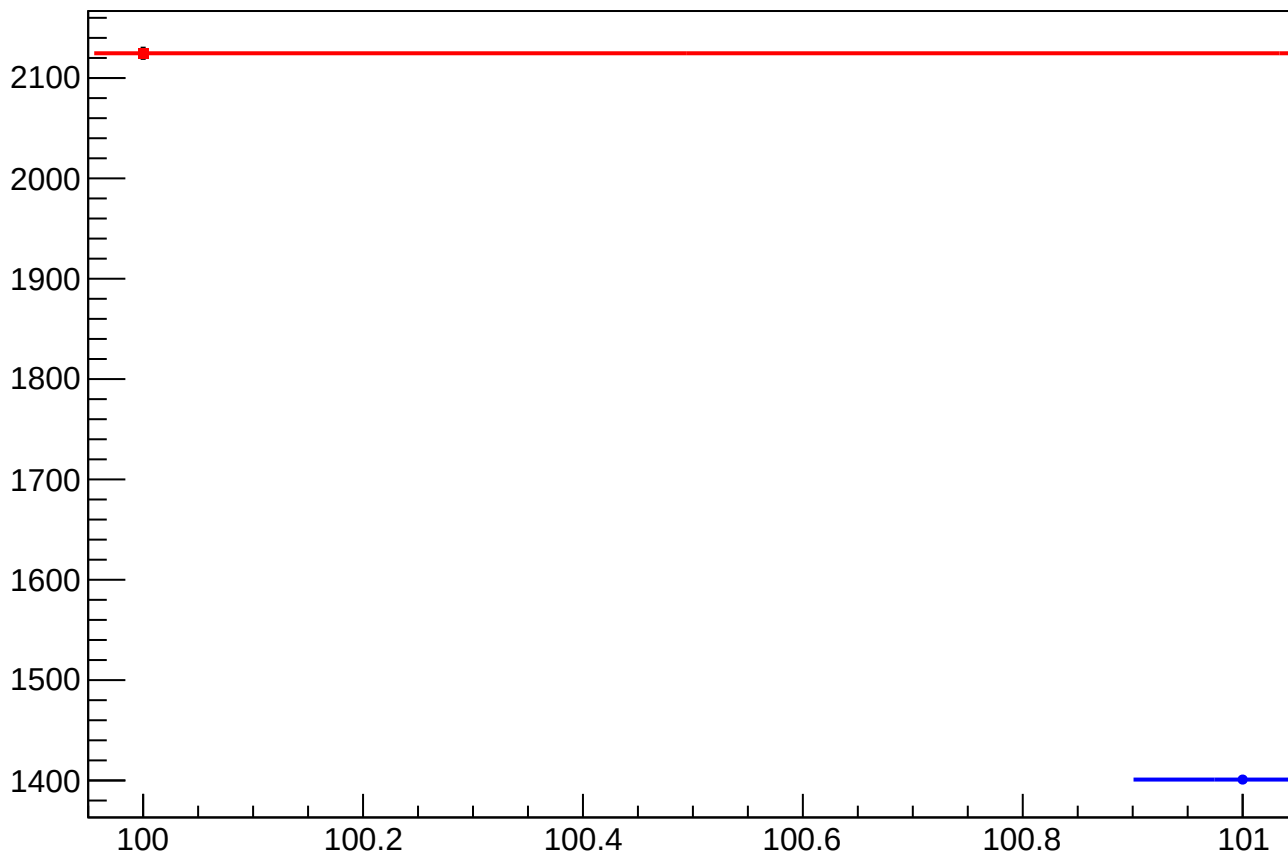
Right: -2361.615+/-1690.965  $\chi^2/\text{NDF}$ : 4.9/1

In: -3183.976+/-1731.147  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2361.615+/-1690.965  $\chi^2/\text{NDF}$ : 4.9/1

asym\_sam\_24\_68\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1400.887 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2124.675 $\pm$ 5.582  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

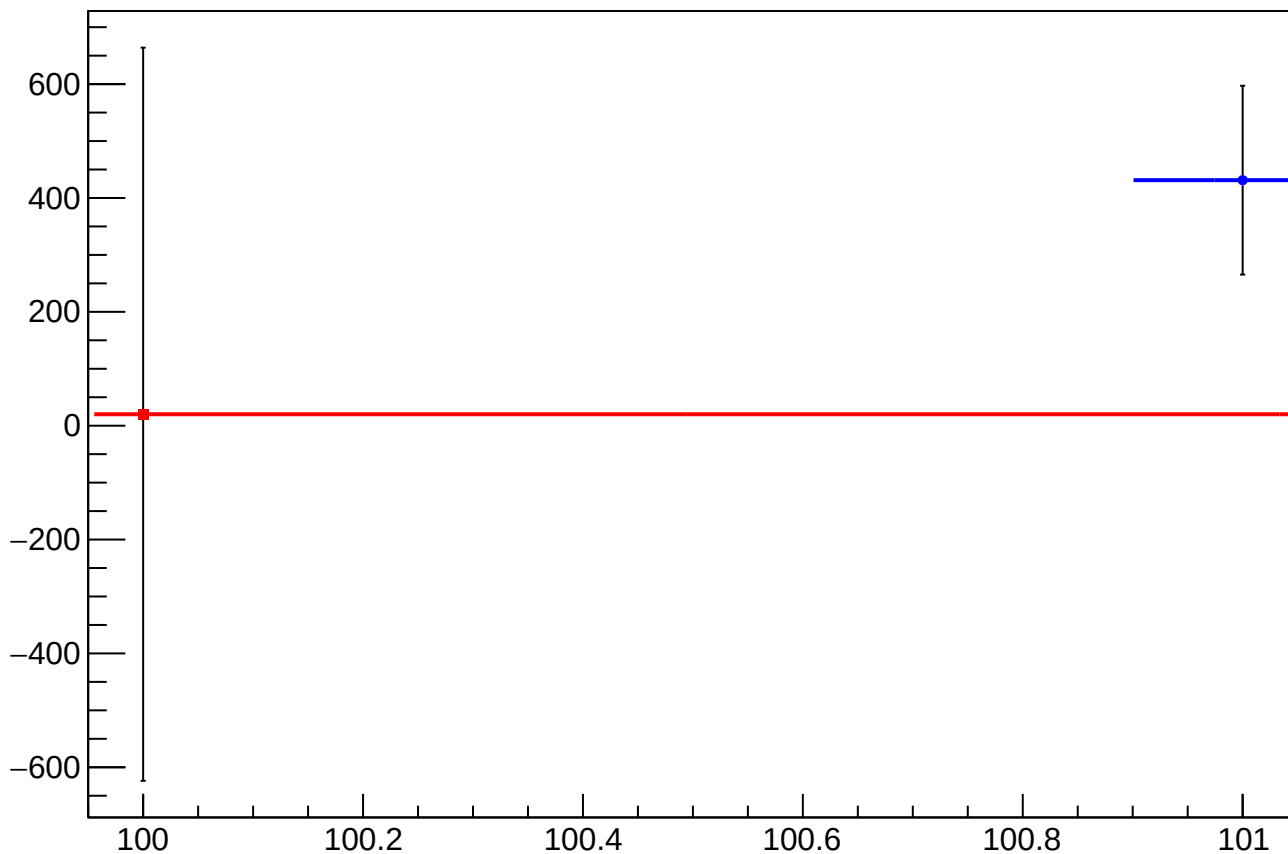
Right: 1434.097 $\pm$ 1.196  $\chi^2$ /NDF: 16041.2/1

In: 1400.887 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1434.097 $\pm$ 1.196  $\chi^2$ /NDF: 16041.2/1

dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 431.280 $\pm$ 165.833  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 20.136 $\pm$ 643.889  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

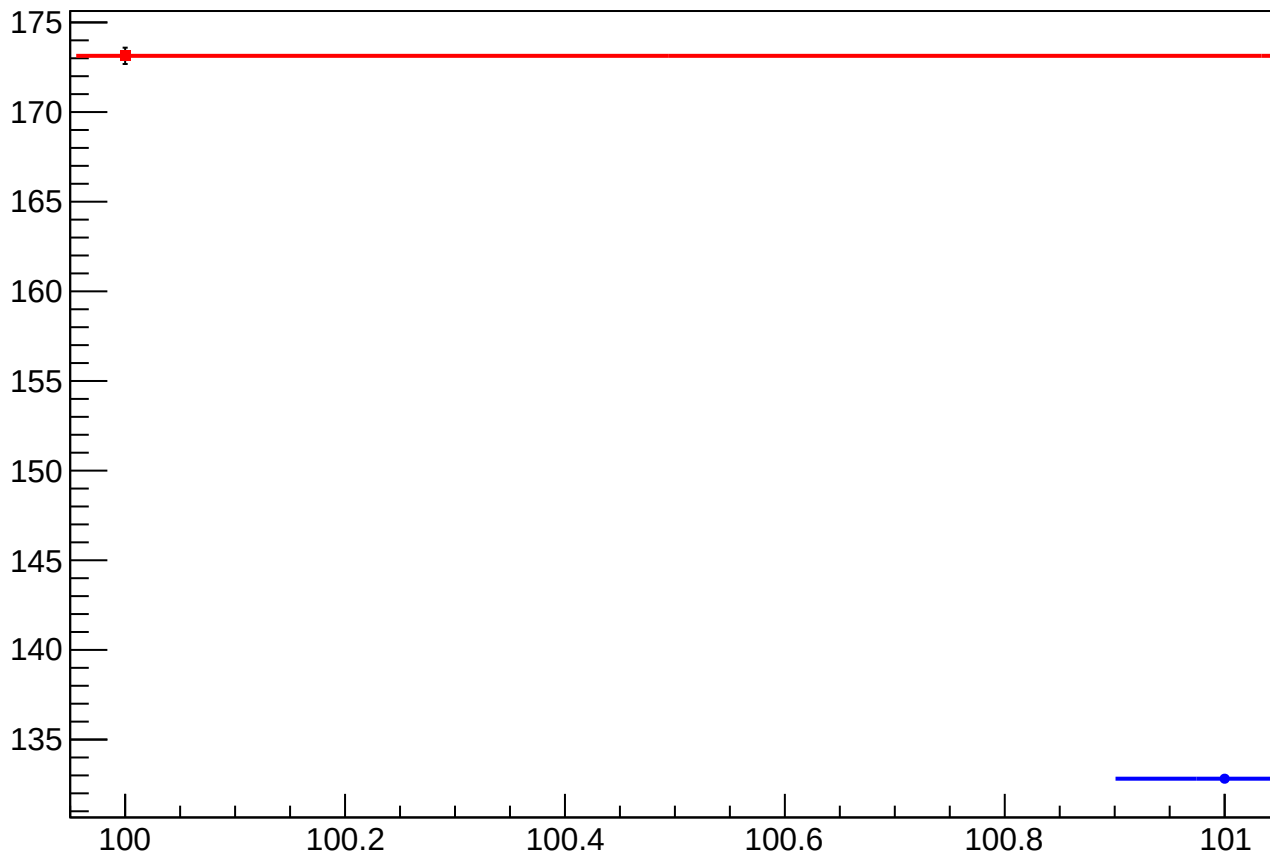
Right: 405.705 $\pm$ 160.593  $\chi^2$ /NDF: 0.4/1

In: 431.280 $\pm$ 165.833  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 405.705 $\pm$ 160.593  $\chi^2$ /NDF: 0.4/1

dit\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 132.817 $\pm$ 0.117  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 173.136 $\pm$ 0.455  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

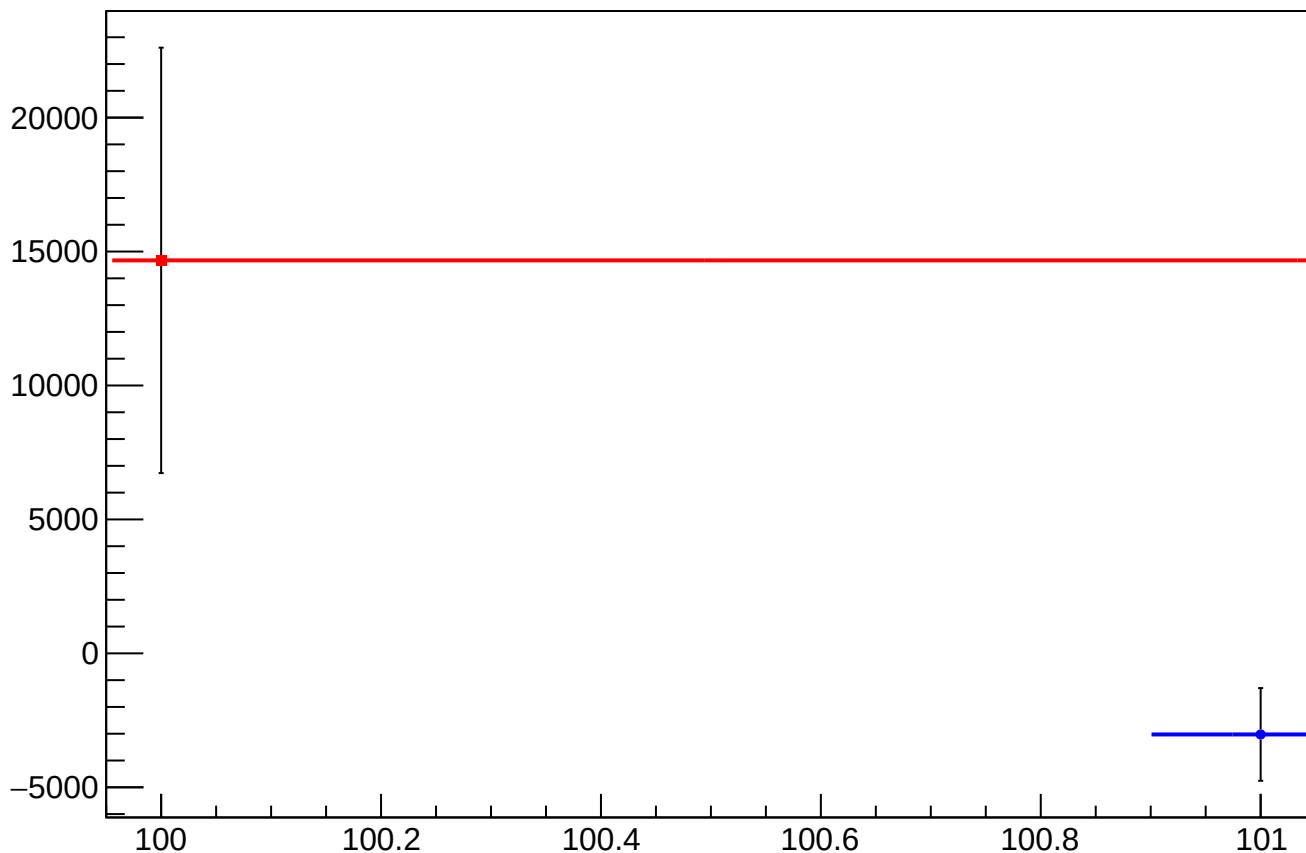
Right: 135.325 $\pm$ 0.114  $\chi^2$ /NDF: 7354.3/1

In: 132.817 $\pm$ 0.117  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 135.325 $\pm$ 0.114  $\chi^2$ /NDF: 7354.3/1

asym\_sam\_24\_68\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3026.716+/-1730.619  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14670.130+/-7940.710  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

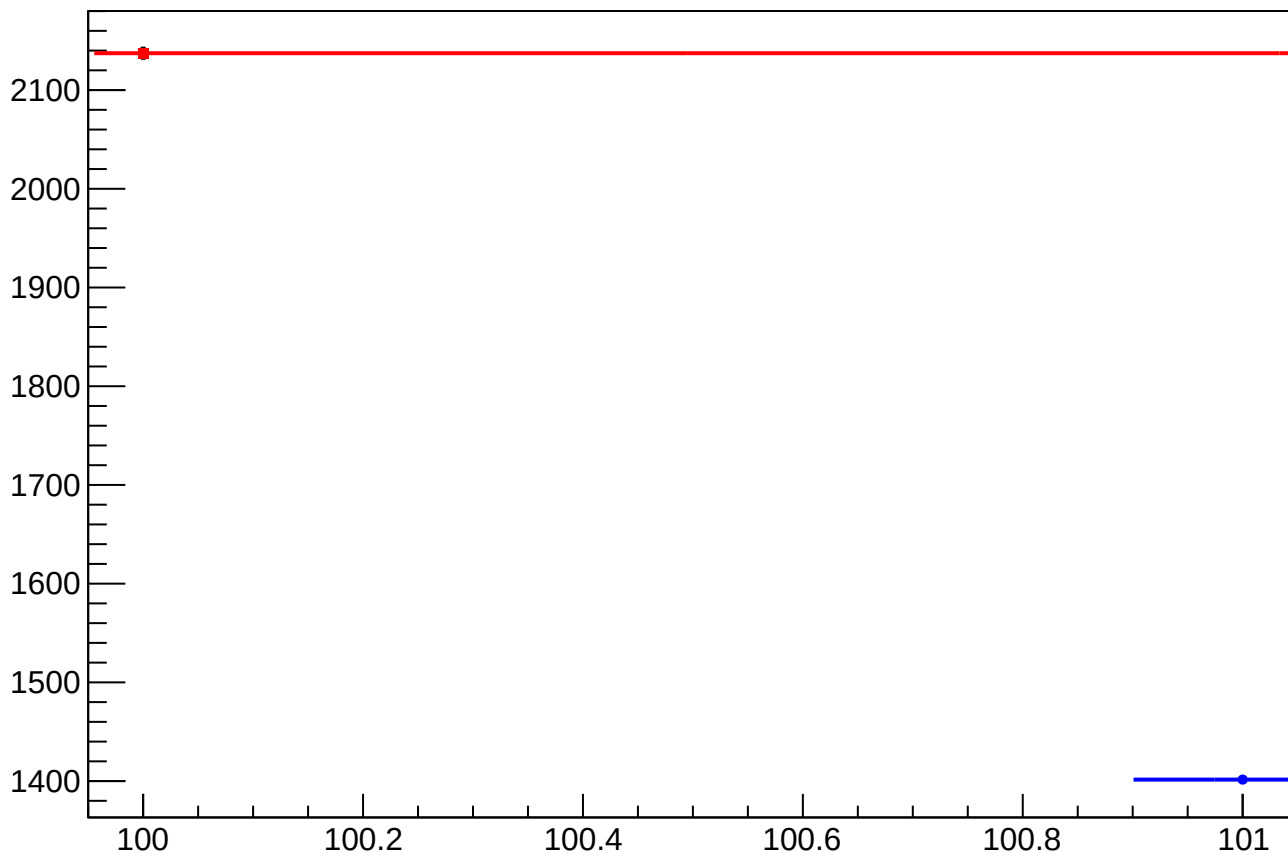
Right: -2224.251+/-1690.926  $\chi^2/\text{NDF}$ : 4.7/1

In: -3026.716+/-1730.619  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2224.251+/-1690.926  $\chi^2/\text{NDF}$ : 4.7/1

asym\_sam\_24\_68\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1401.516 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2137.346 $\pm$ 5.615  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

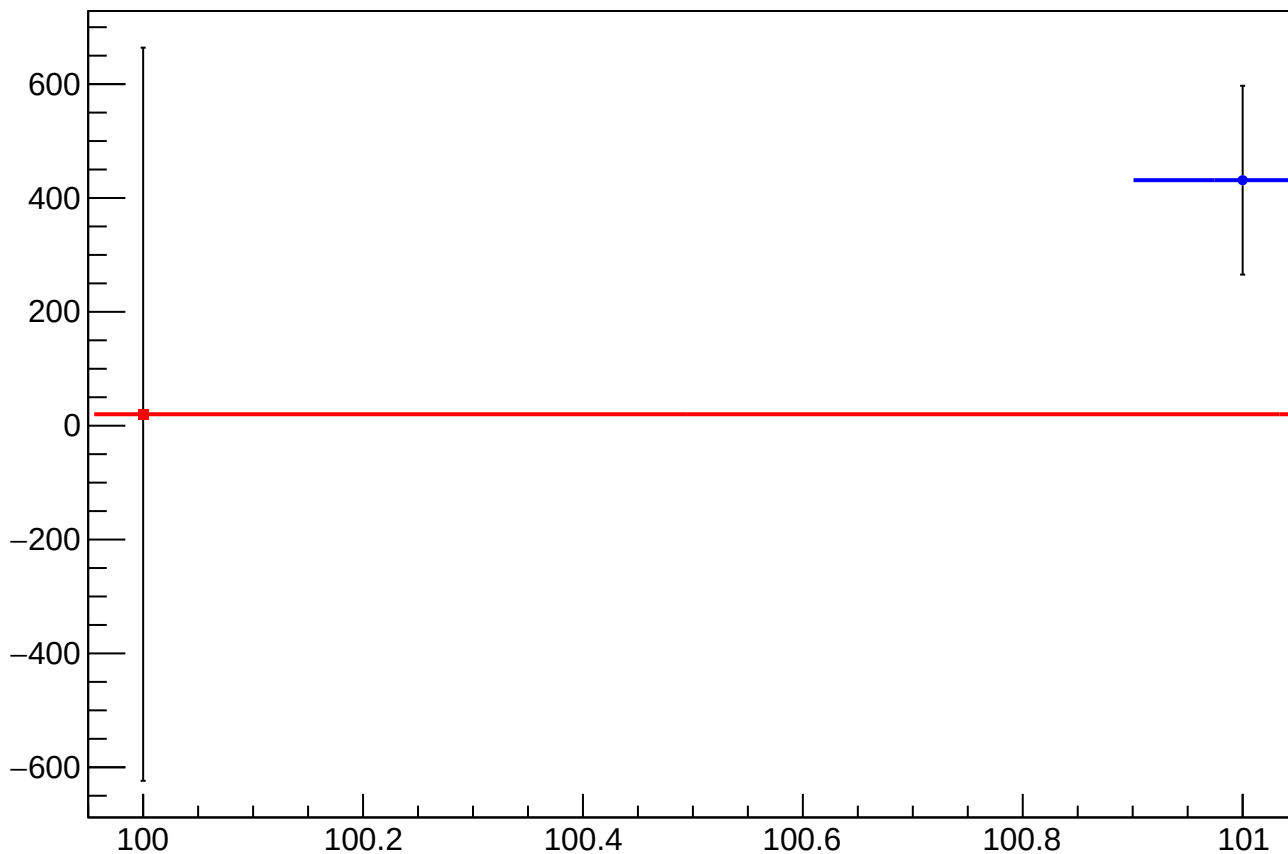
Right: 1434.882 $\pm$ 1.196  $\chi^2$ /NDF: 16395.0/1

In: 1401.516 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1434.882 $\pm$ 1.196  $\chi^2$ /NDF: 16395.0/1

eigen\_dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 431.278+/-165.833  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 20.140+/-643.890  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

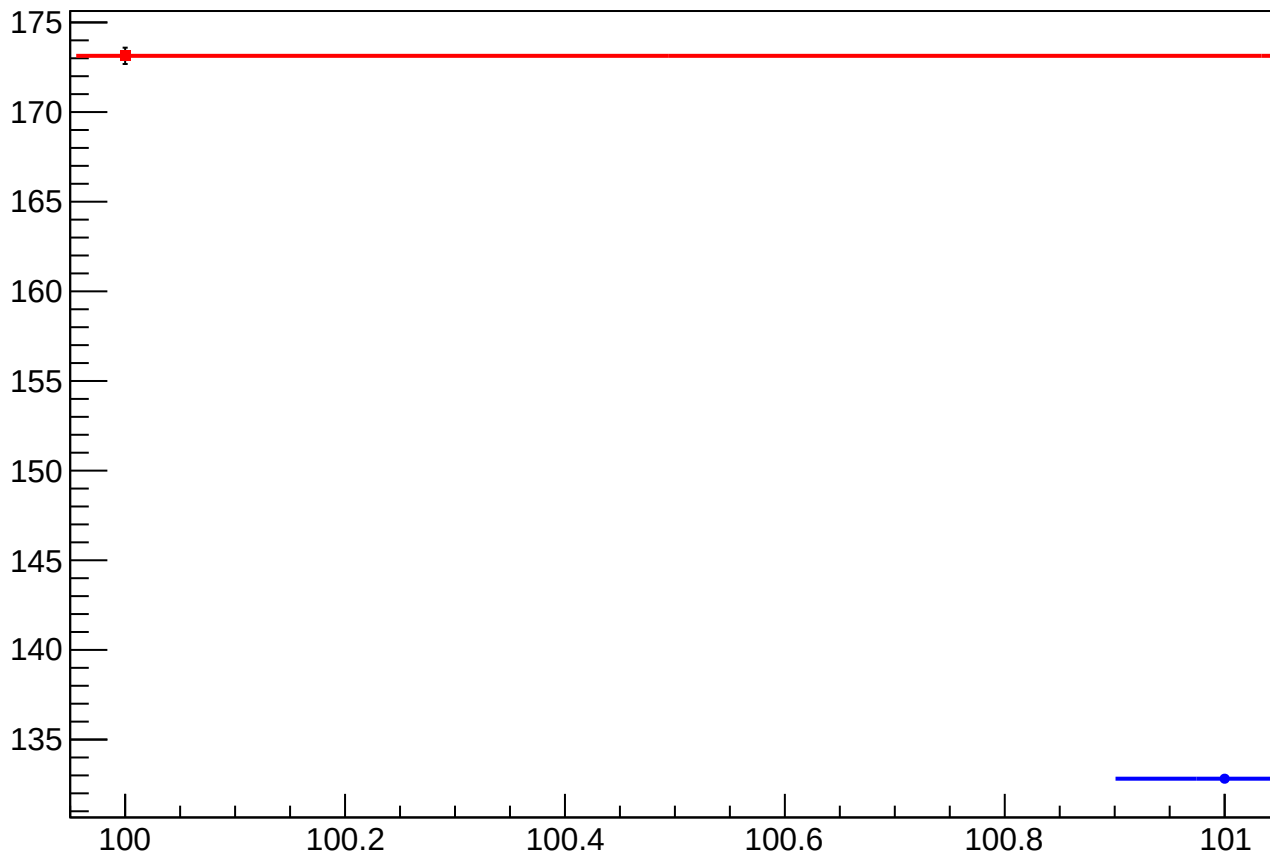
Right: 405.703+/-160.593  $\chi^2/\text{NDF}$ : 0.4/1

In: 431.278+/-165.833  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 405.703+/-160.593  $\chi^2/\text{NDF}$ : 0.4/1

eigen\_dit\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 132.817 $\pm$ 0.117  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 173.136 $\pm$ 0.455  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 135.325 $\pm$ 0.114  $\chi^2$ /NDF: 7354.4/1

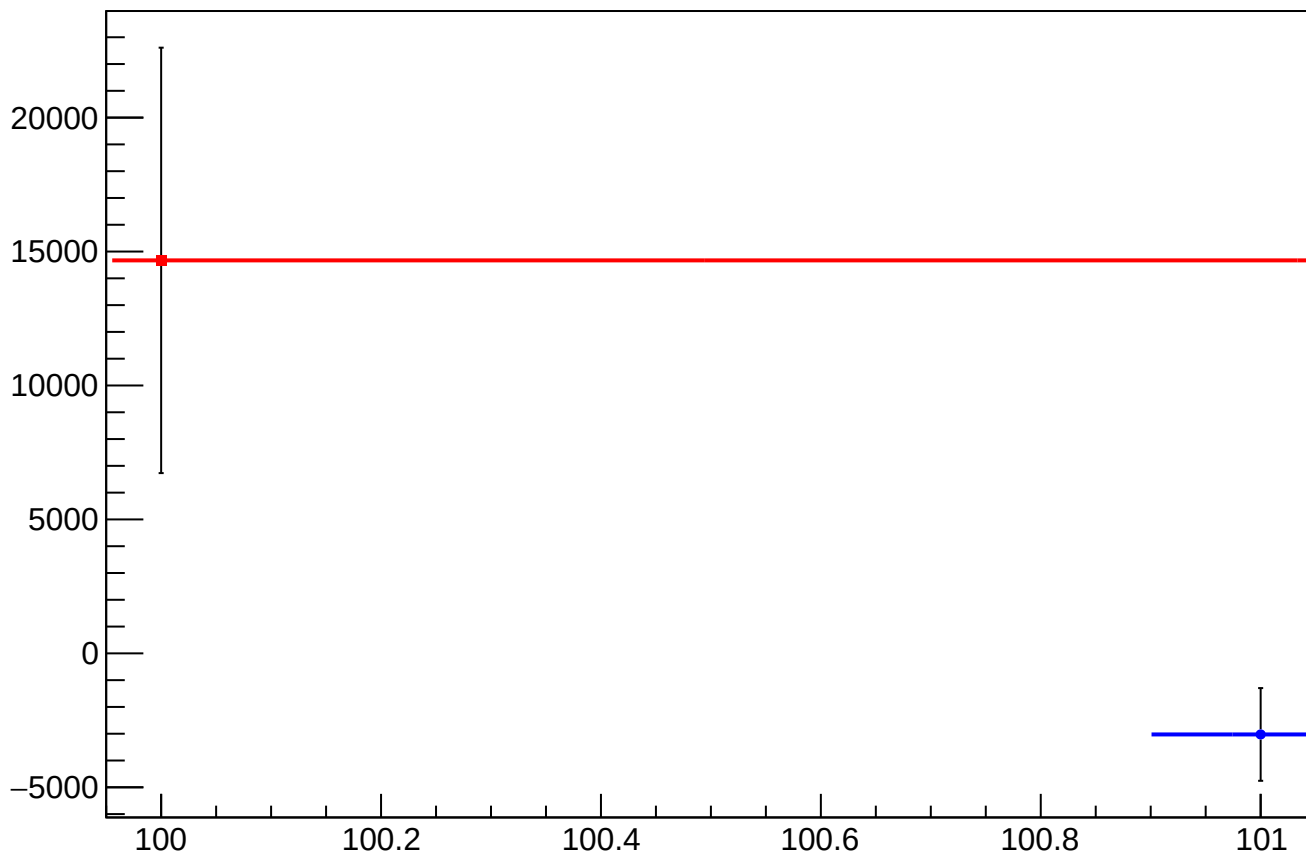
In: 132.817 $\pm$ 0.117  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 135.325 $\pm$ 0.114  $\chi^2$ /NDF: 7354.4/1



asym\_sam\_24\_68\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3026.718+/-1730.618  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14670.136+/-7940.710  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

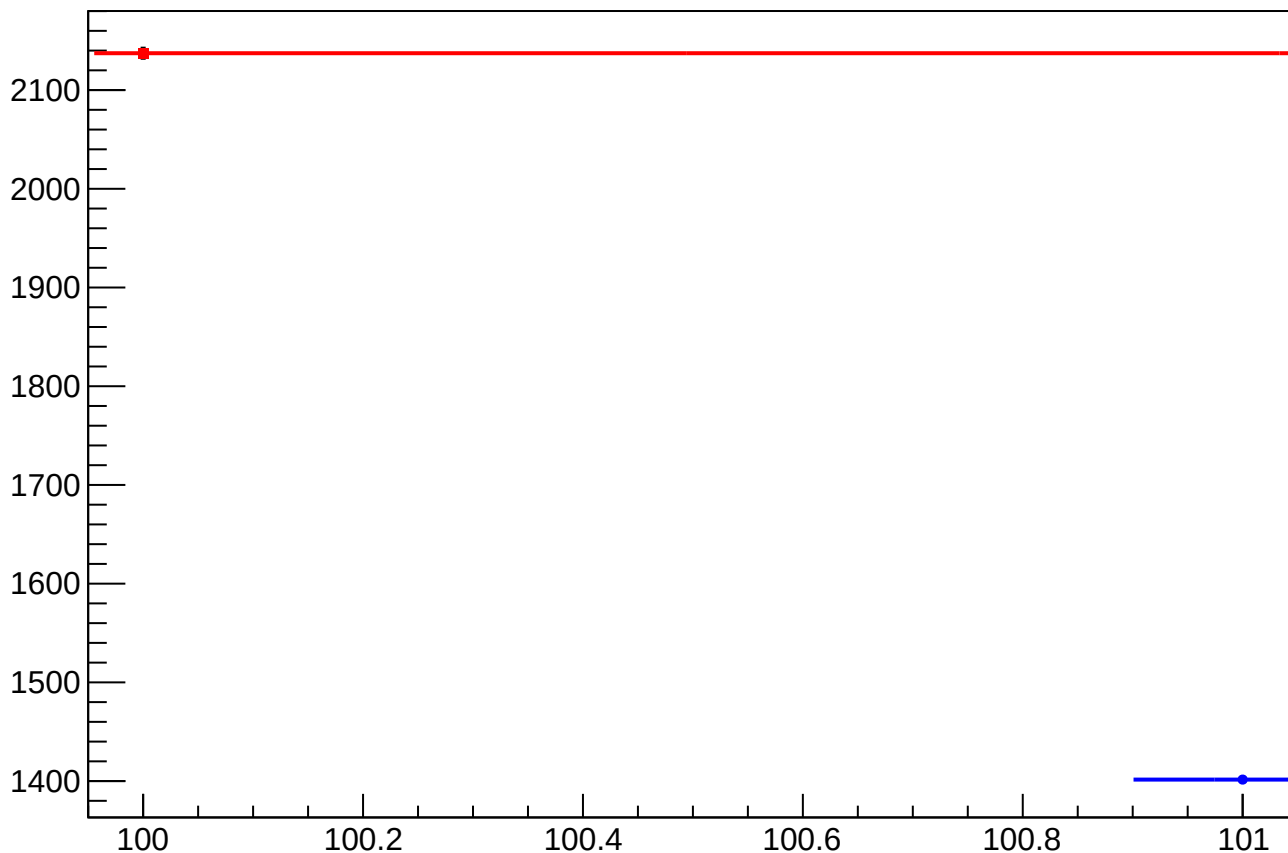
Right: -2224.254+/-1690.925  $\chi^2/\text{NDF}$ : 4.7/1

In: -3026.718+/-1730.618  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2224.254+/-1690.925  $\chi^2/\text{NDF}$ : 4.7/1

asym\_sam\_24\_68\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1401.515 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2137.346 $\pm$ 5.615  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

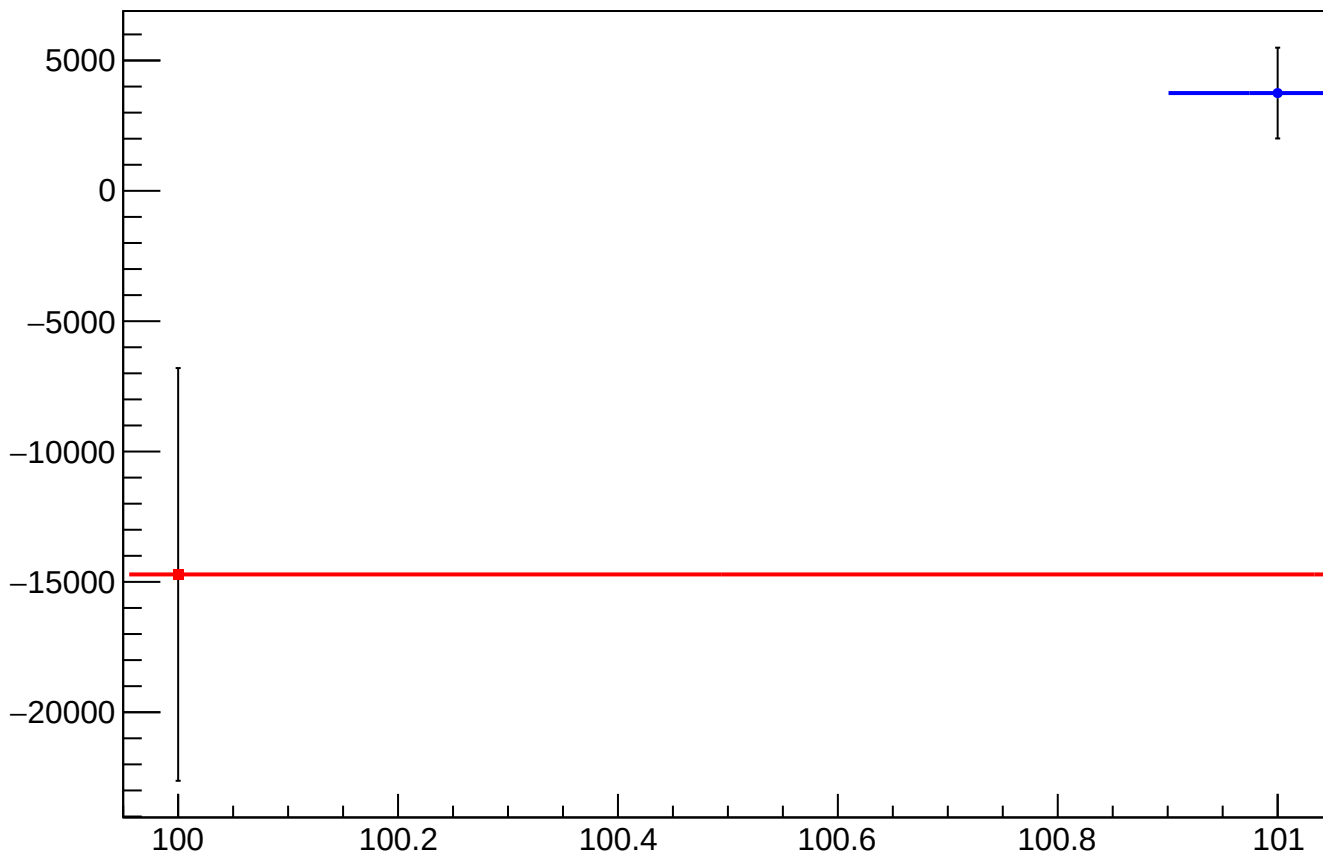
Right: 1434.881 $\pm$ 1.196  $\chi^2$ /NDF: 16395.1/1

In: 1401.515 $\pm$ 1.224  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1434.881 $\pm$ 1.196  $\chi^2$ /NDF: 16395.1/1

asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 3750.424+/-1741.270  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14713.810+/-7915.992  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

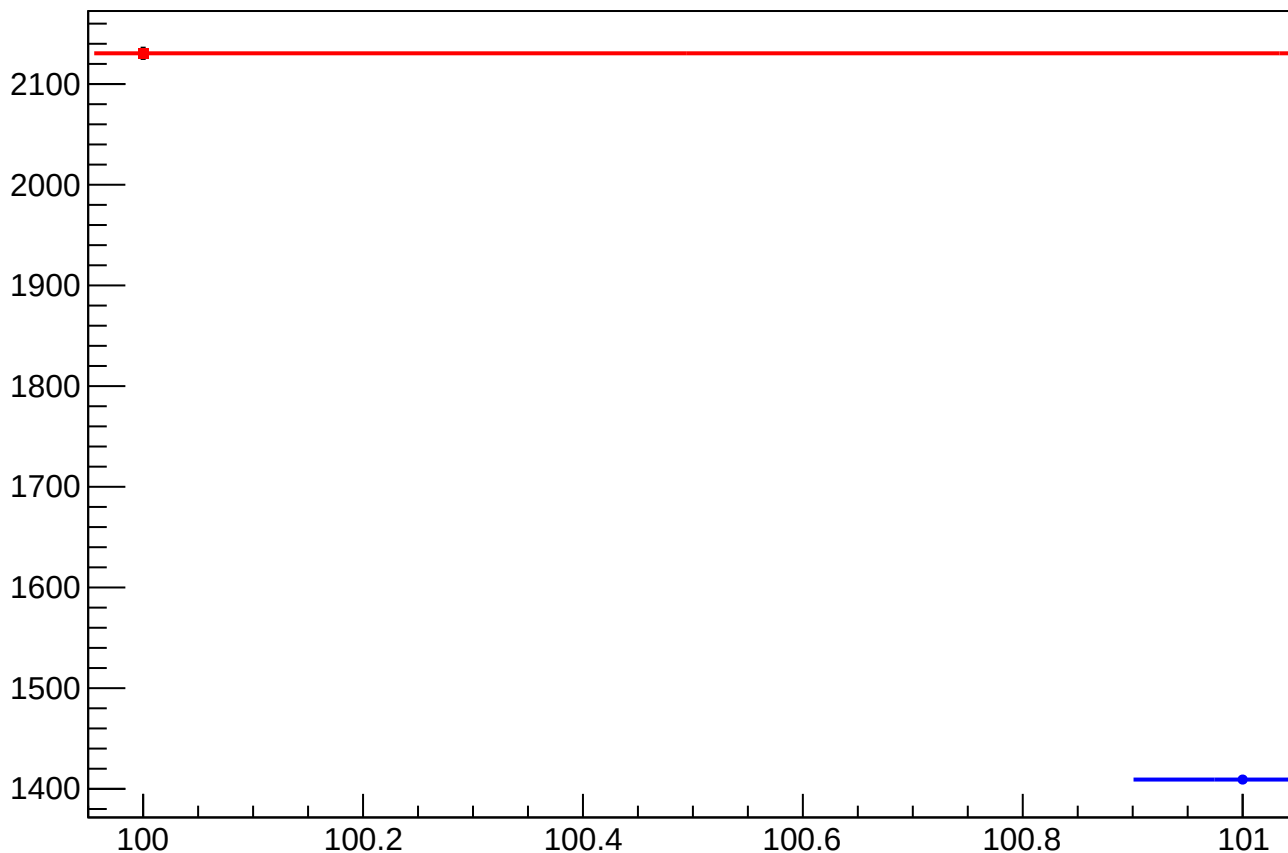
Right: 2898.243+/-1700.613  $\chi^2/\text{NDF}$ : 5.2/1

In: 3750.424+/-1741.270  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2898.243+/-1700.613  $\chi^2/\text{NDF}$ : 5.2/1

# asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 1409.235+/-1.231  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2130.537+/-5.597  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

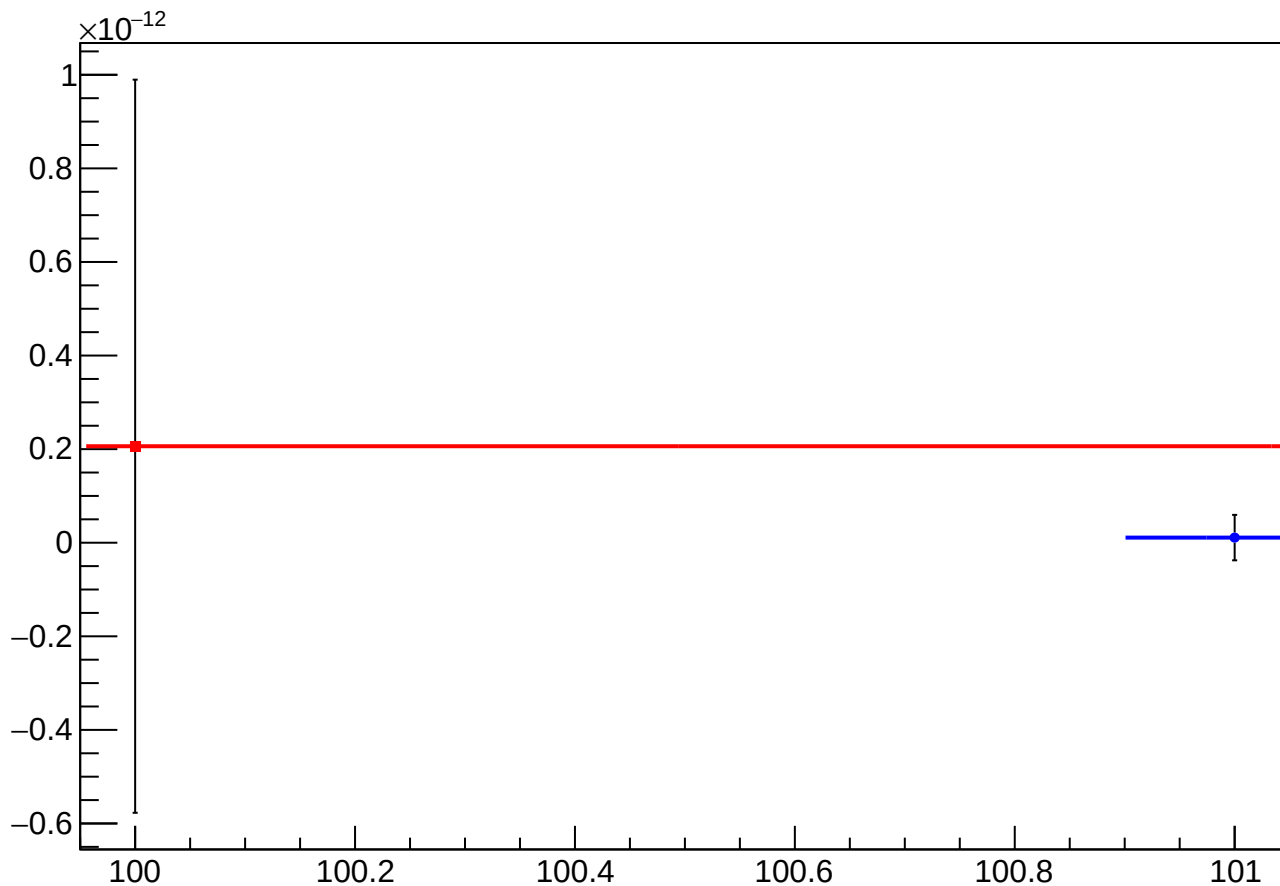
Right: 1442.525+/-1.203  $\chi^2/\text{NDF}$ : 15839.2/1

In: 1409.235+/-1.231  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1442.525+/-1.203  $\chi^2/\text{NDF}$ : 15839.2/1

asym\_sam\_24\_68\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

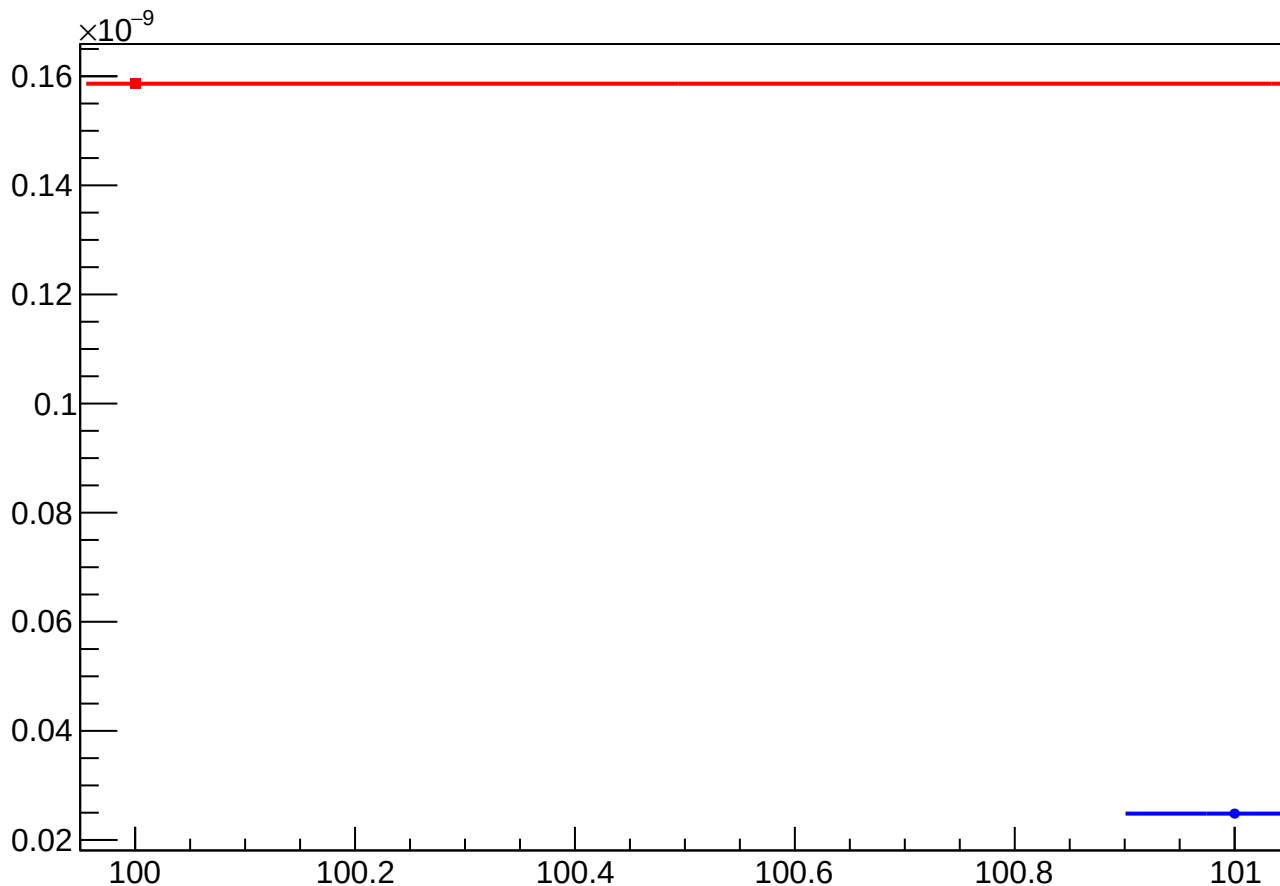
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_24\_68\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

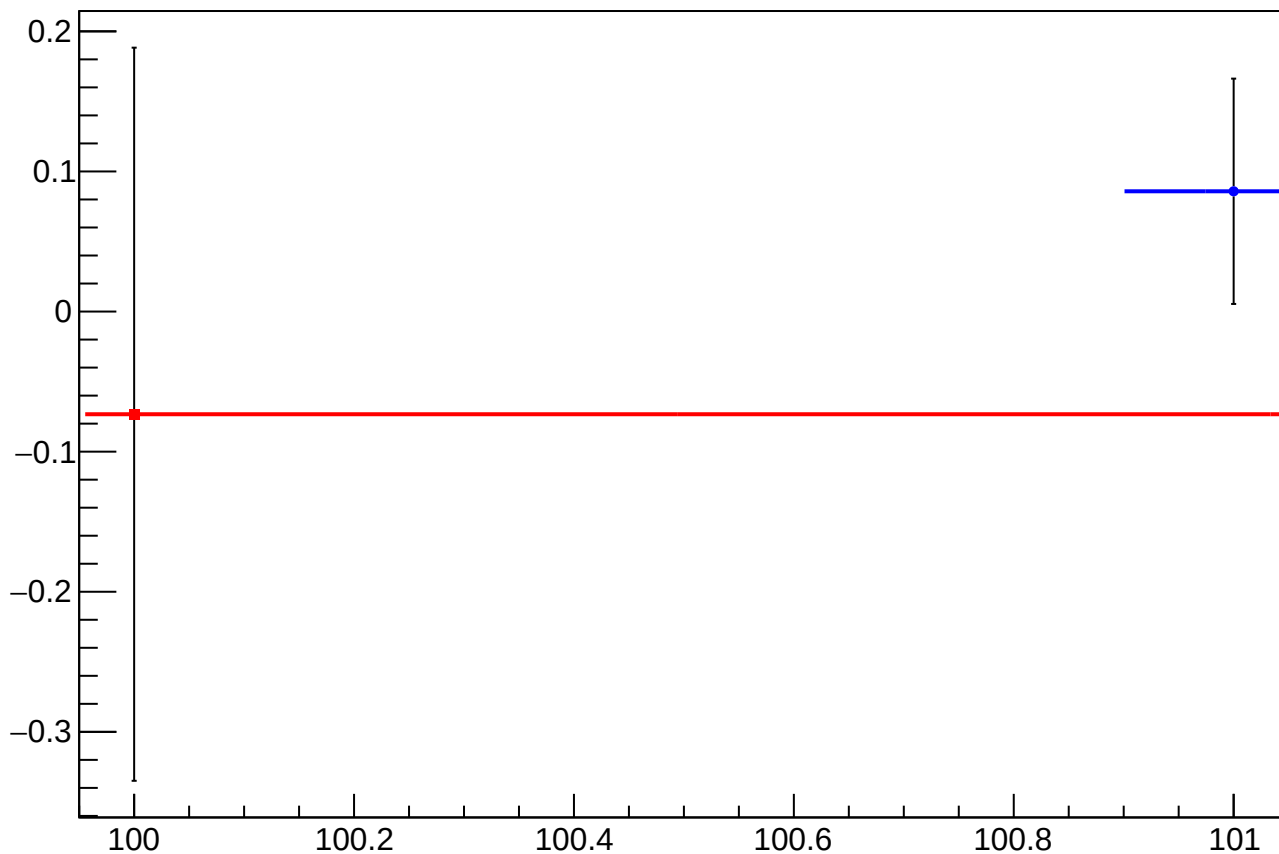
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 58122.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 58122.2/1

asym\_sam\_24\_68\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.086+/-0.080  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.073+/-0.262  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.072+/-0.077  $\chi^2/\text{NDF}$ : 0.3/1

In: 0.086+/-0.080  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.072+/-0.077  $\chi^2/\text{NDF}$ : 0.3/1

asym\_sam\_24\_68\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 64.159+/-0.057  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.867+/-0.185  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 64.652+/-0.054  $\chi^2/\text{NDF}$ : 869.5/1

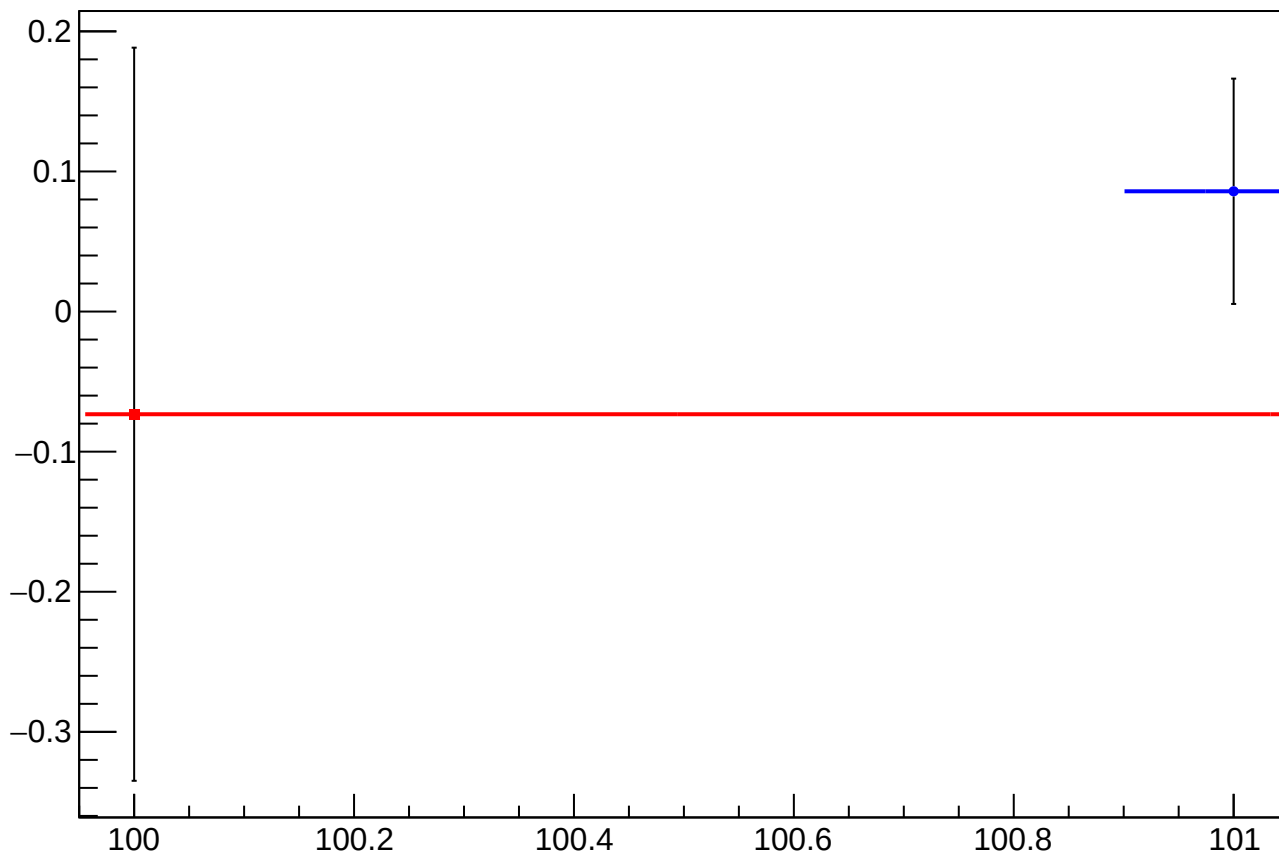
In: 64.159+/-0.057  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.652+/-0.054  $\chi^2/\text{NDF}$ : 869.5/1



asym\_sam\_24\_68\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.086 $\pm$ 0.080  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.073 $\pm$ 0.262  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

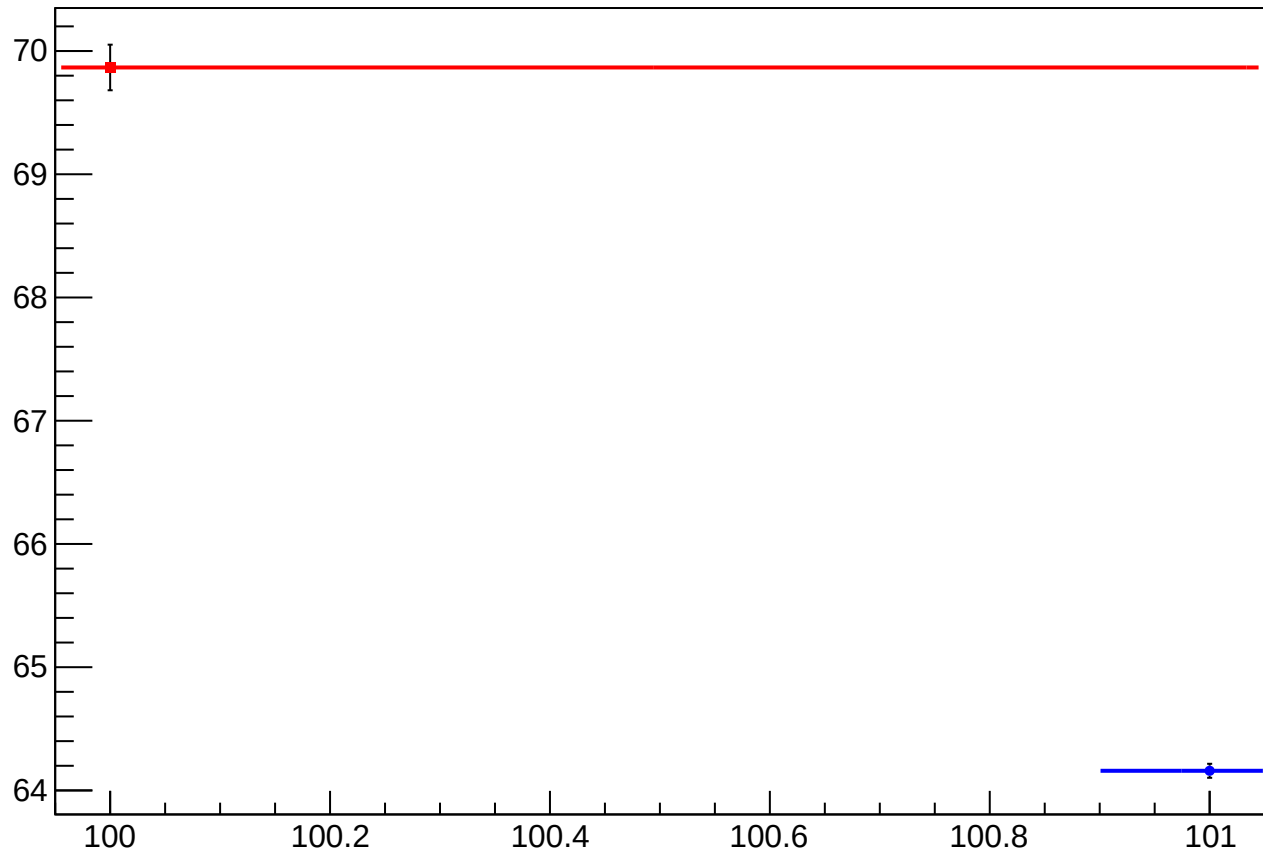
Right: 0.072 $\pm$ 0.077  $\chi^2$ /NDF: 0.3/1

In: 0.086 $\pm$ 0.080  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.072 $\pm$ 0.077  $\chi^2$ /NDF: 0.3/1

asym\_sam\_24\_68\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 64.159 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 69.867 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

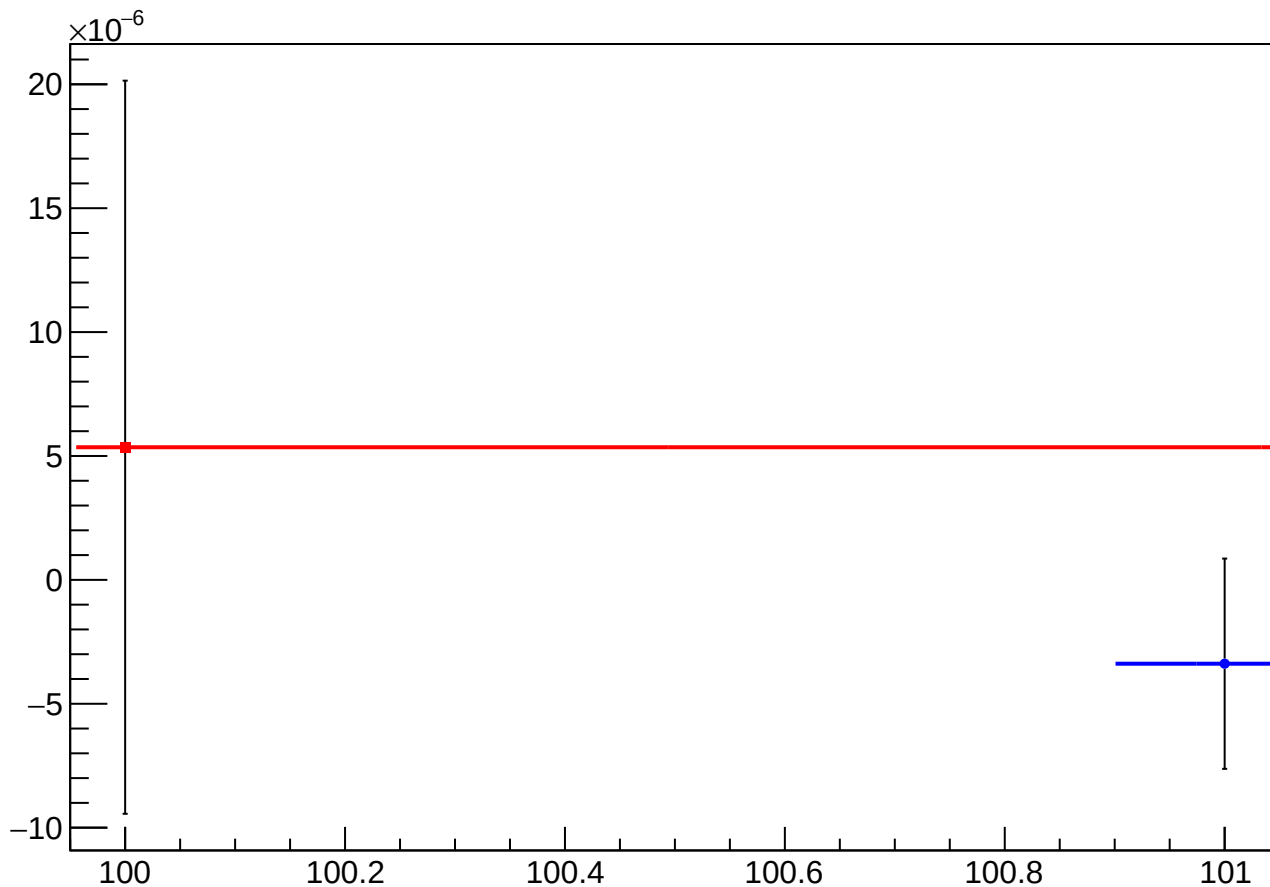
Right: 64.652 $\pm$ 0.054  $\chi^2$ /NDF: 869.5/1

In: 64.159 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 64.652 $\pm$ 0.054  $\chi^2$ /NDF: 869.5/1

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

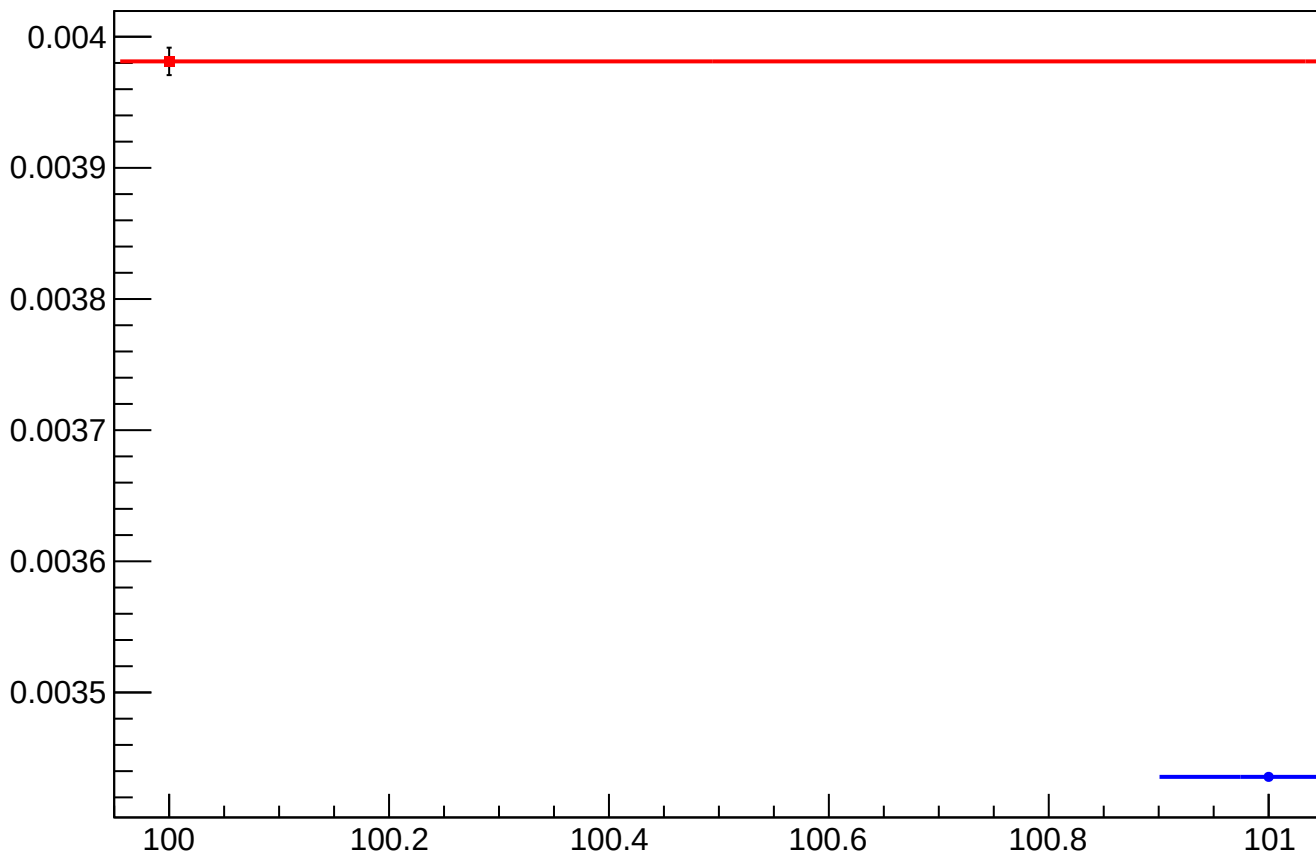
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

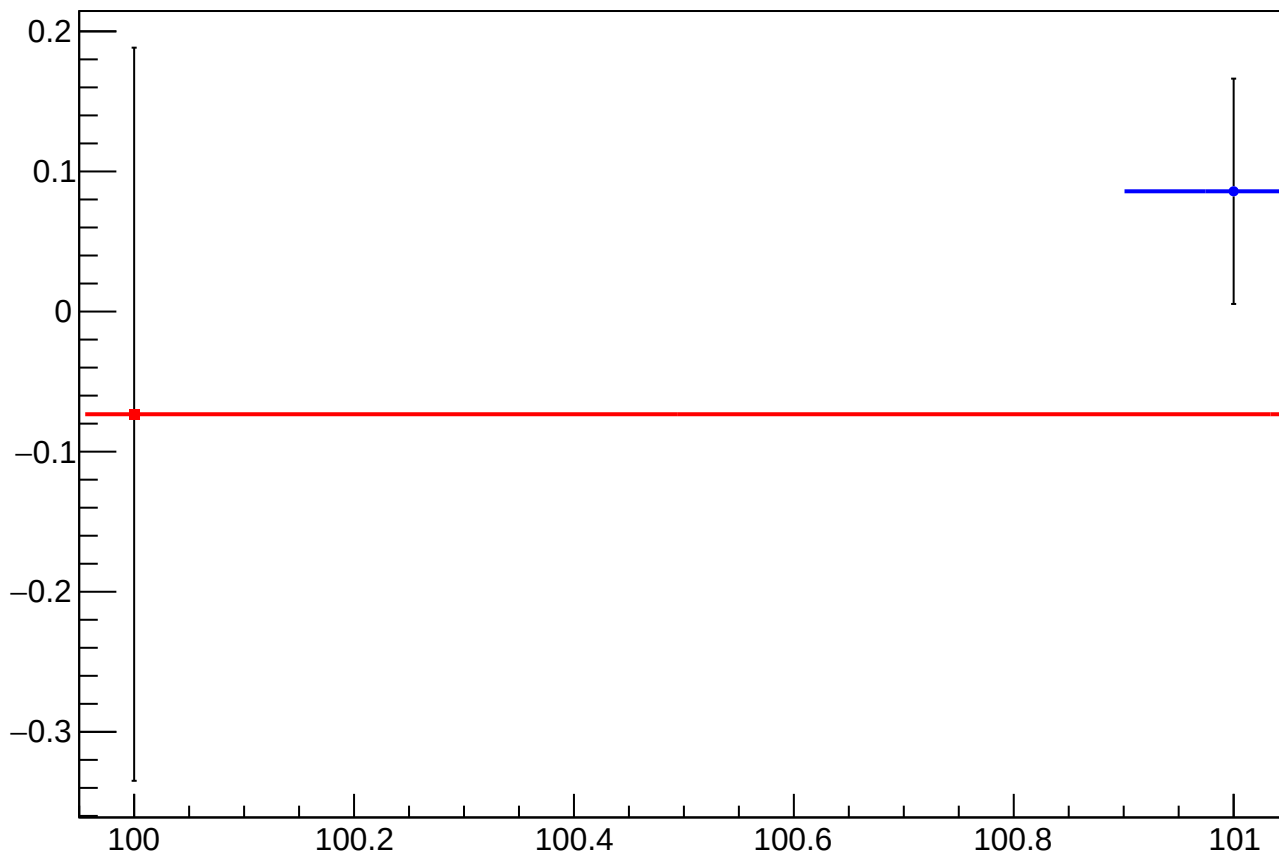
asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 Right Out: 0.004+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Right: 0.003+/-0.000  $\chi^2$ /NDF: 2513.3/1  
 In: 0.003+/-0.000  $\chi^2$ /NDF:0.0/0  
 Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
 All: 0.003+/-0.000  $\chi^2$ /NDF: 2513.3/1

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.086+/-0.080  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.073+/-0.262  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

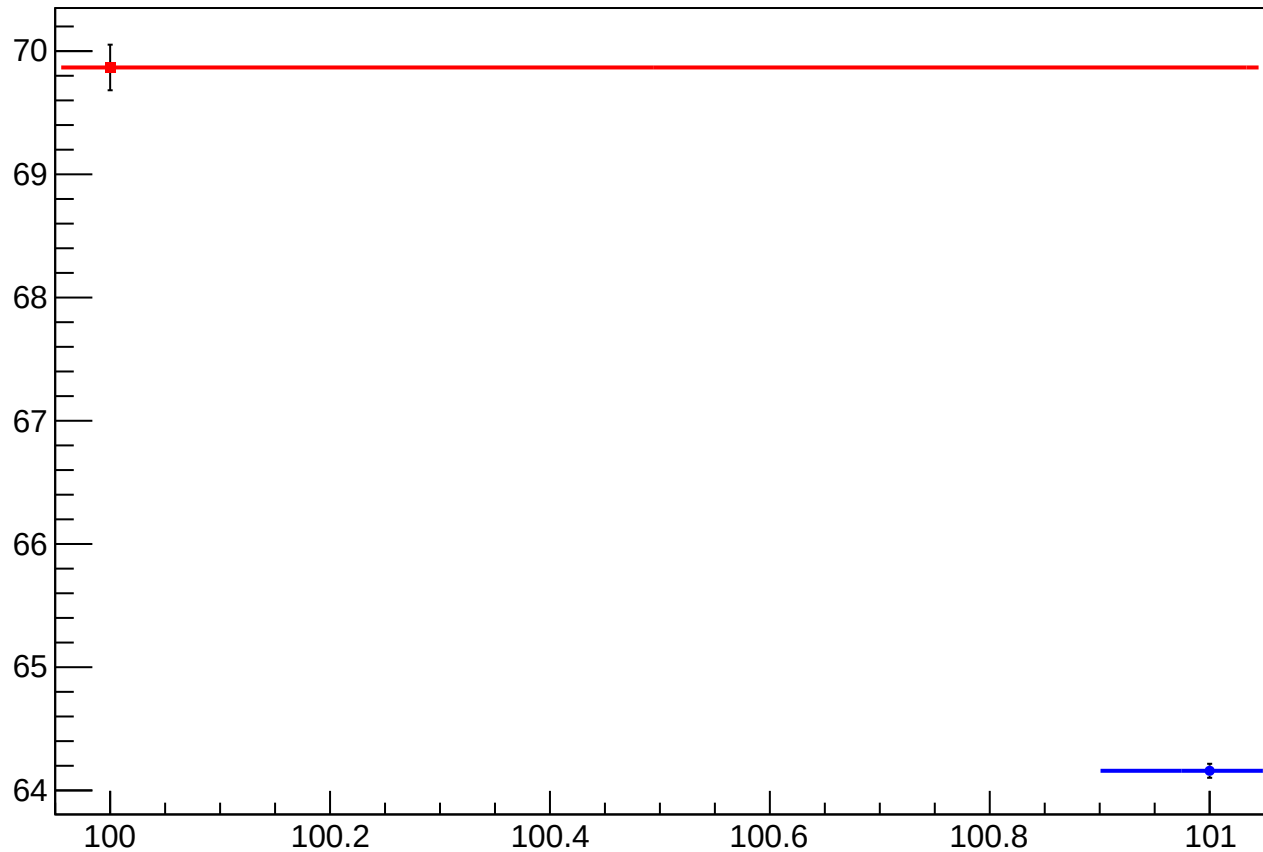
Right: 0.072+/-0.077  $\chi^2/\text{NDF}$ : 0.3/1

In: 0.086+/-0.080  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.072+/-0.077  $\chi^2/\text{NDF}$ : 0.3/1

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 64.159 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 69.867 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

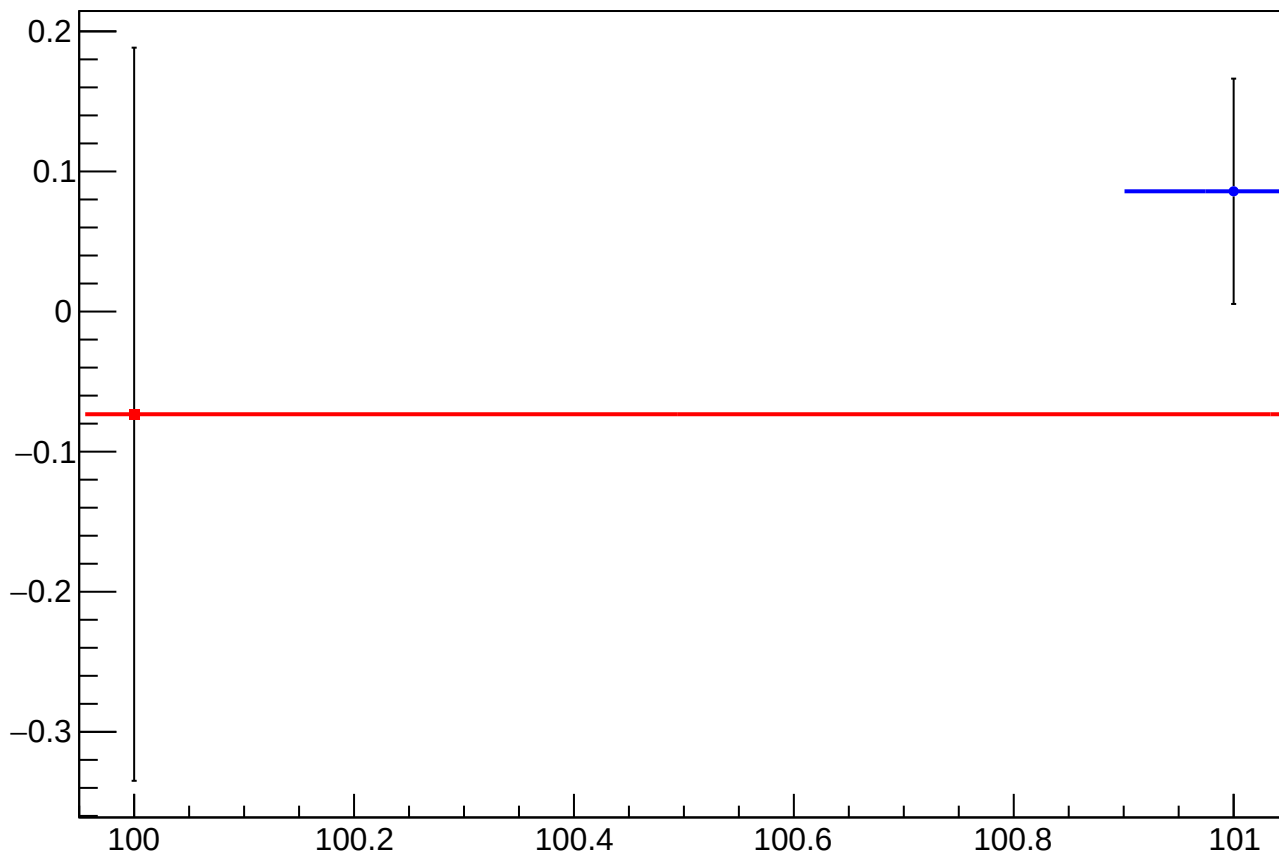
Right: 64.652 $\pm$ 0.054  $\chi^2$ /NDF: 869.7/1

In: 64.159 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 64.652 $\pm$ 0.054  $\chi^2$ /NDF: 869.7/1

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.086 $\pm$ 0.080  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.073 $\pm$ 0.262  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

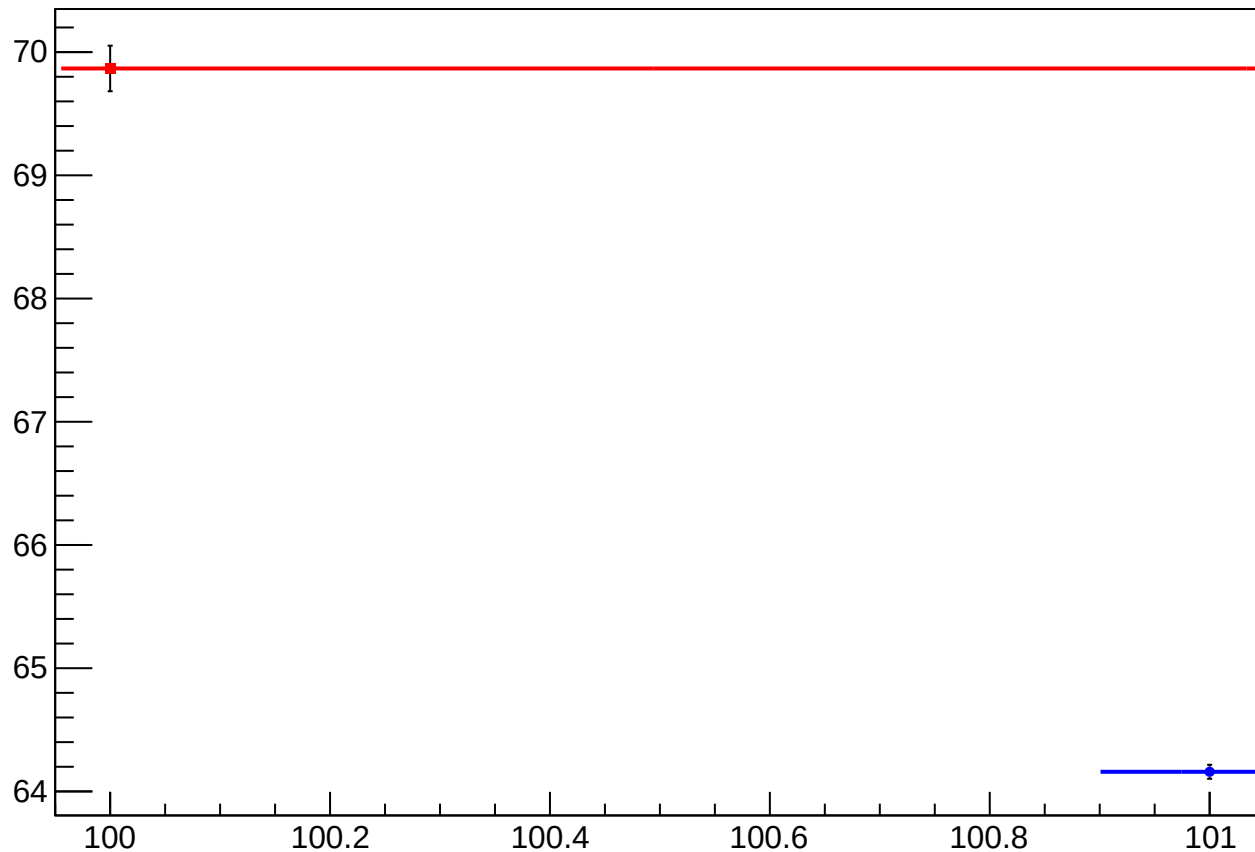
Right: 0.072 $\pm$ 0.077  $\chi^2$ /NDF: 0.3/1

In: 0.086 $\pm$ 0.080  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.072 $\pm$ 0.077  $\chi^2$ /NDF: 0.3/1

asym\_sam\_24\_68\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 64.159 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 69.867 $\pm$ 0.185  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 64.652 $\pm$ 0.054  $\chi^2$ /NDF: 869.7/1

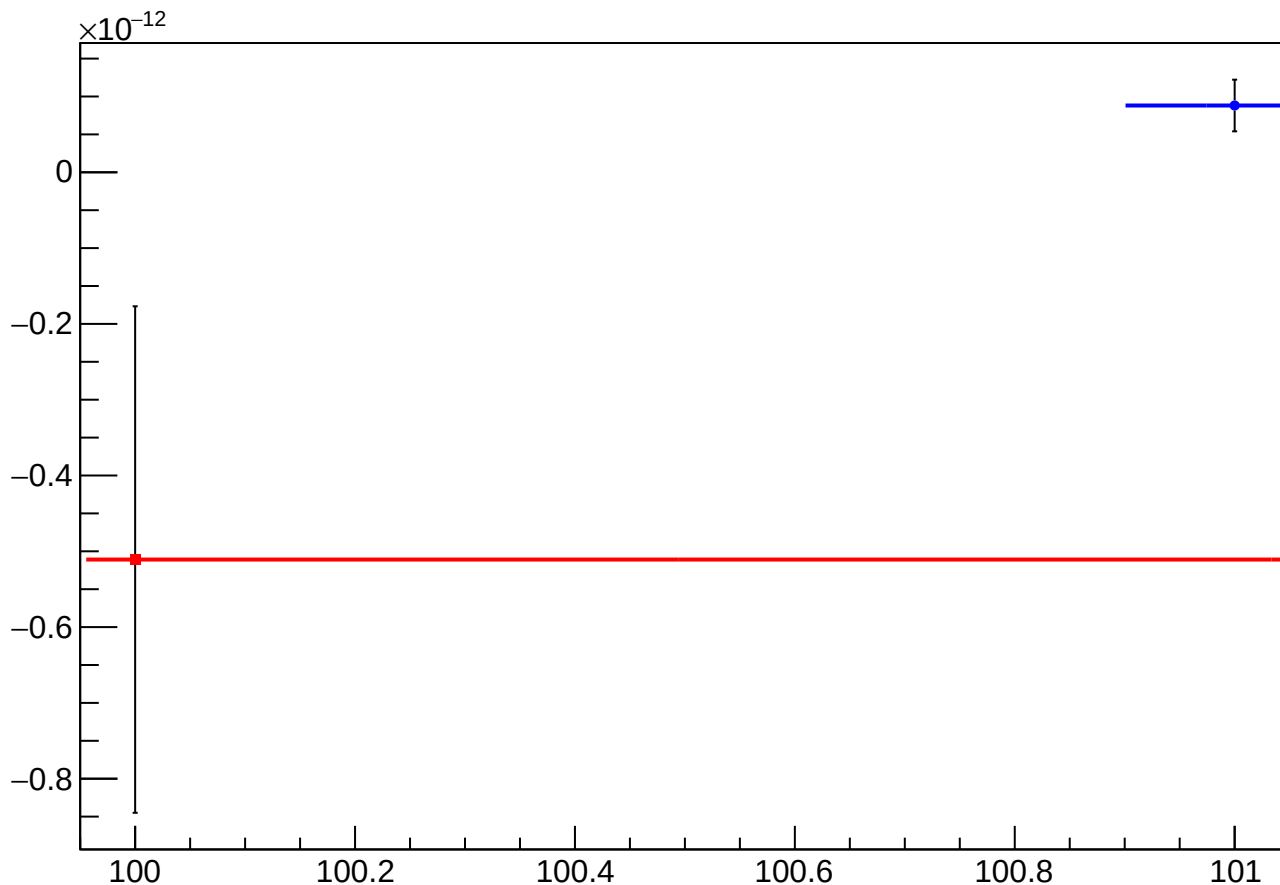
In: 64.159 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 64.652 $\pm$ 0.054  $\chi^2$ /NDF: 869.7/1



asym\_sam\_24\_68\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

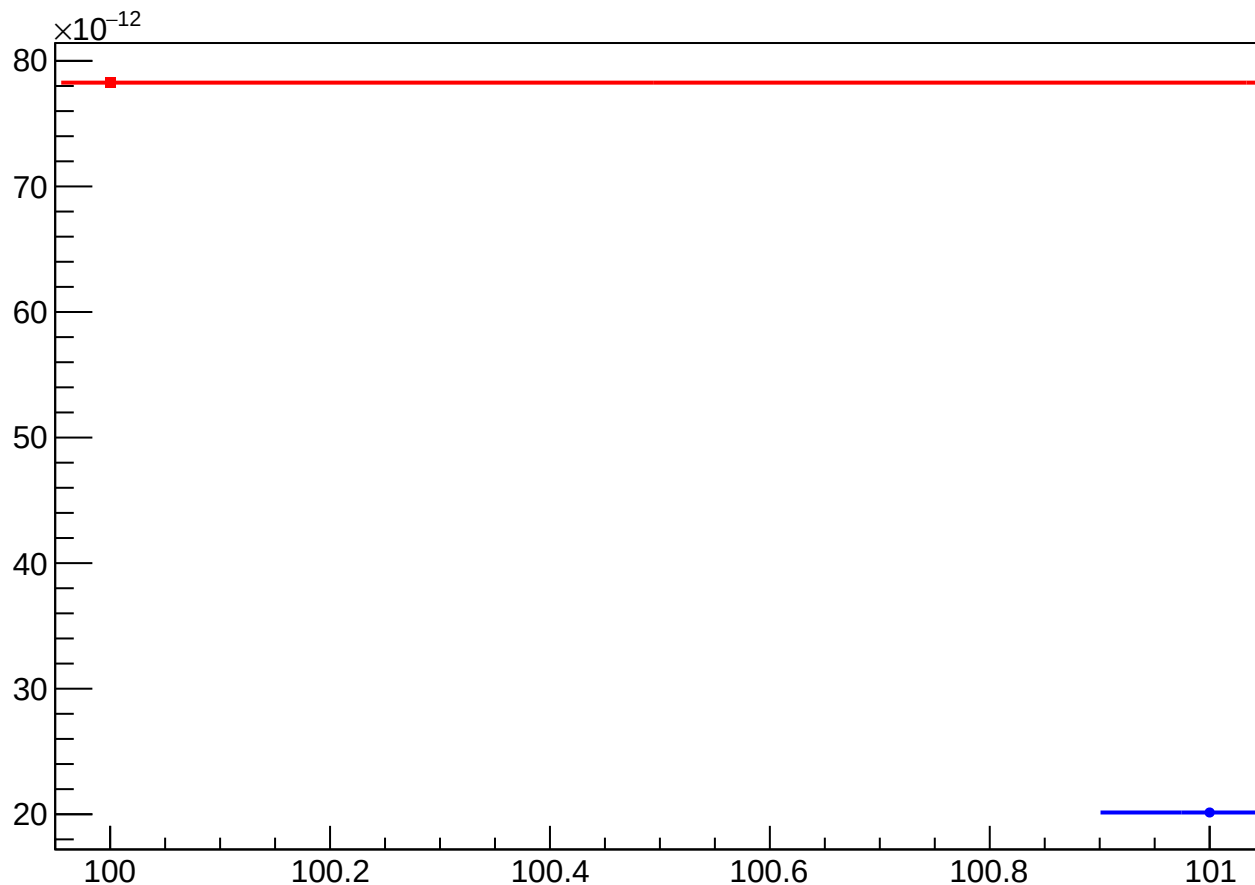
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.2/1

asym\_sam\_24\_68\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

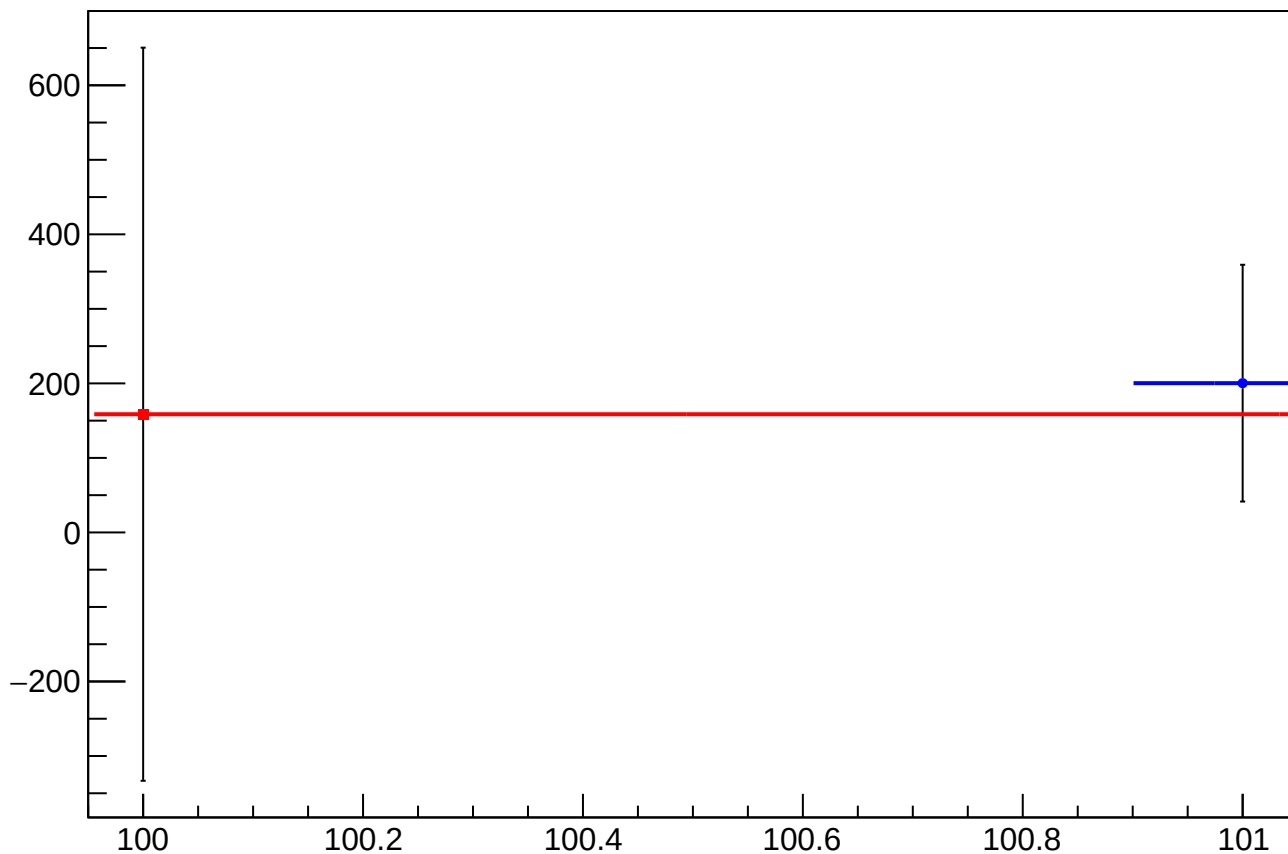
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59912.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59912.9/1

reg\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 200.305+/-158.860  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 158.606+/-491.877  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

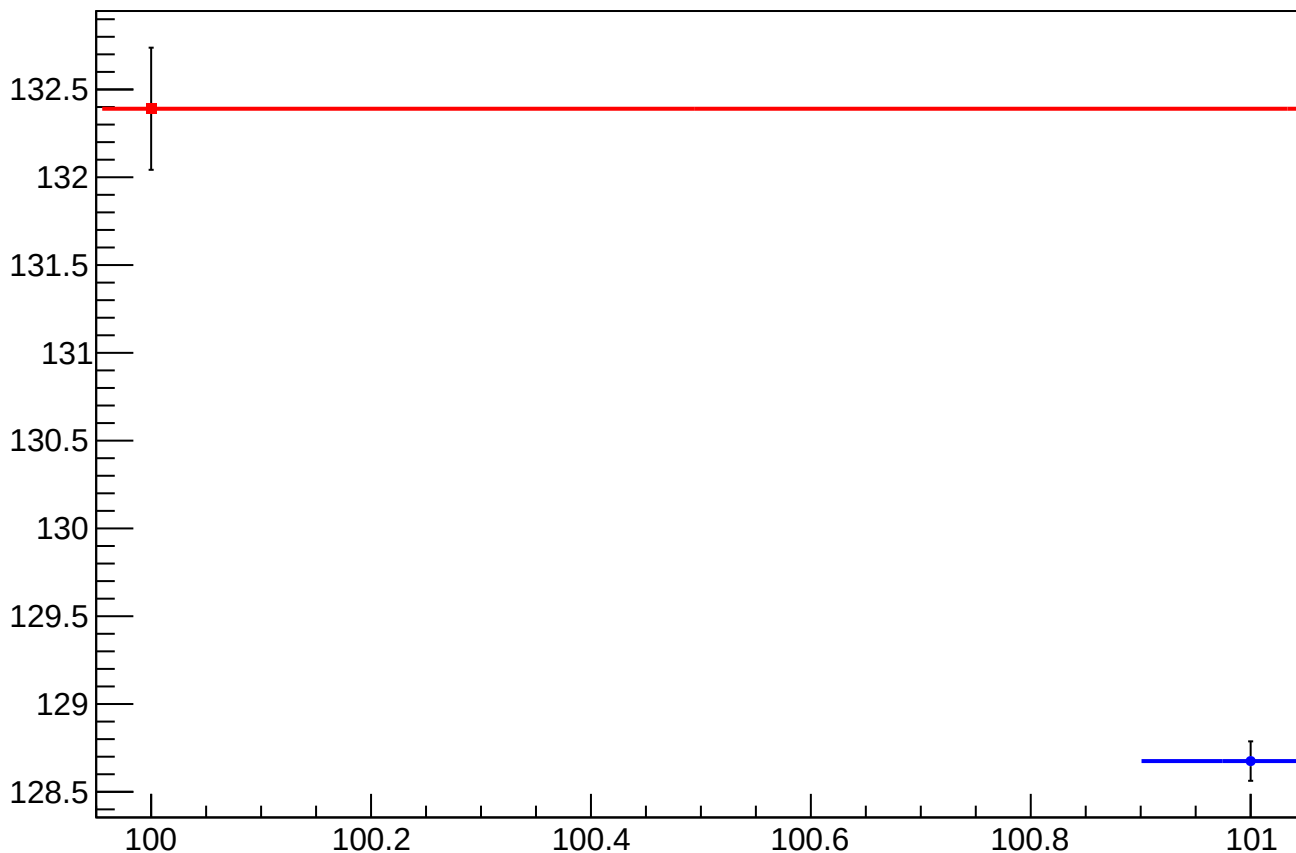
Right: 196.366+/-151.171  $\chi^2$ /NDF: 0.0/1

In: 200.305+/-158.860  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 196.366+/-151.171  $\chi^2$ /NDF: 0.0/1

reg\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 128.675 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 132.390 $\pm$ 0.348  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

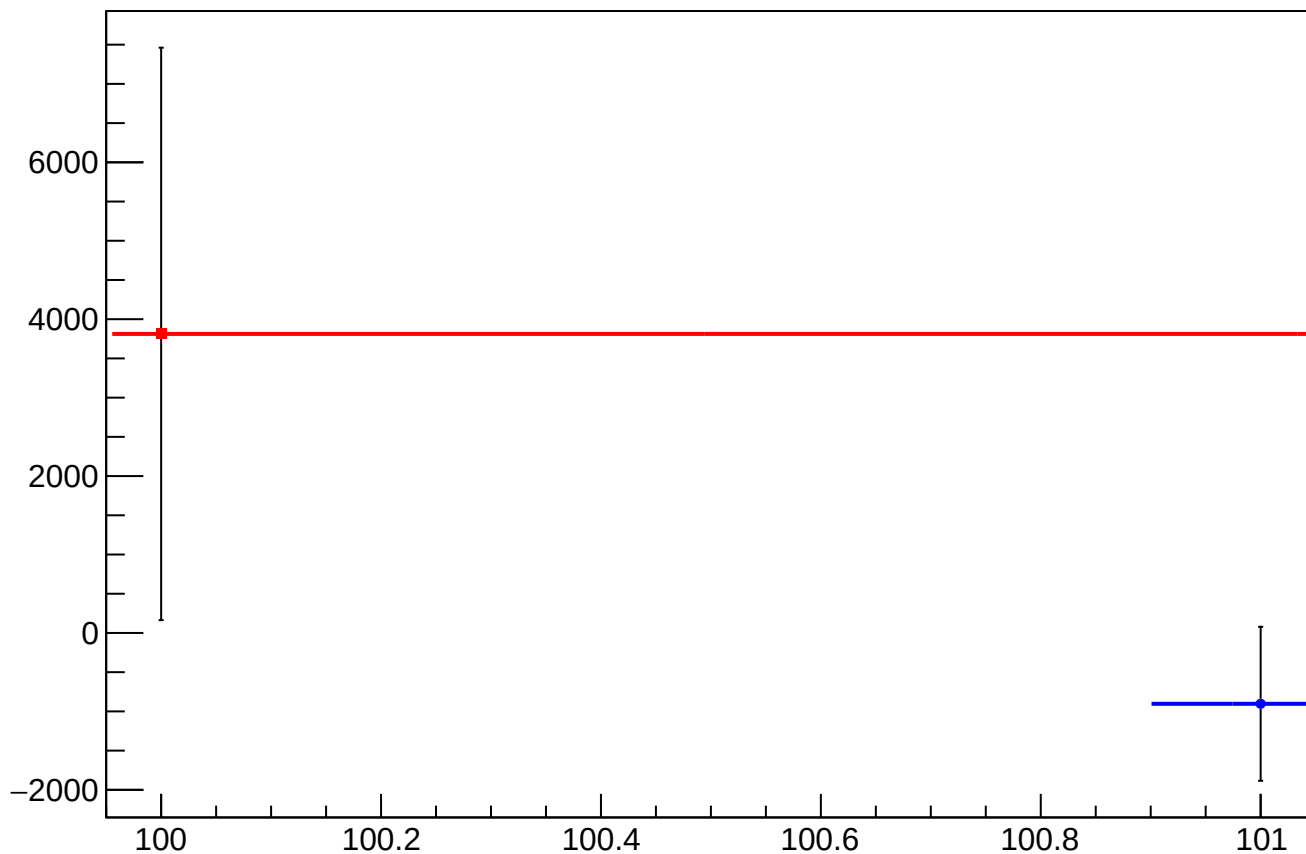
Right: 129.026 $\pm$ 0.107  $\chi^2$ /NDF: 103.3/1

In: 128.675 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 129.026 $\pm$ 0.107  $\chi^2$ /NDF: 103.3/1

asym\_sam\_26\_48\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -903.154+/-981.639  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3812.391+/-3649.234  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

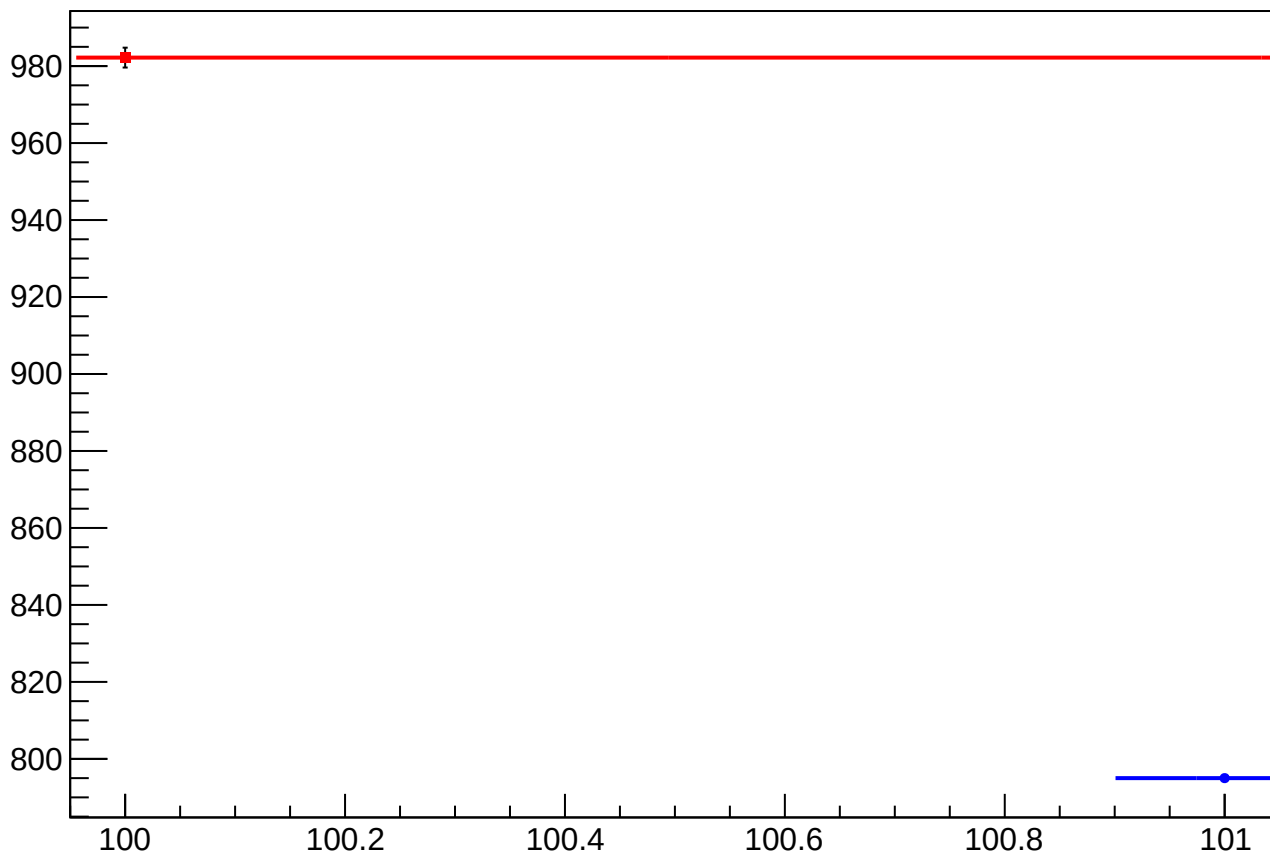
Right: -584.960+/-947.941  $\chi^2/\text{NDF}$ : 1.6/1

In: -903.154+/-981.639  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -584.960+/-947.941  $\chi^2/\text{NDF}$ : 1.6/1

asym\_sam\_26\_48\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 795.001 $\pm$ 0.694  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 982.203 $\pm$ 2.580  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

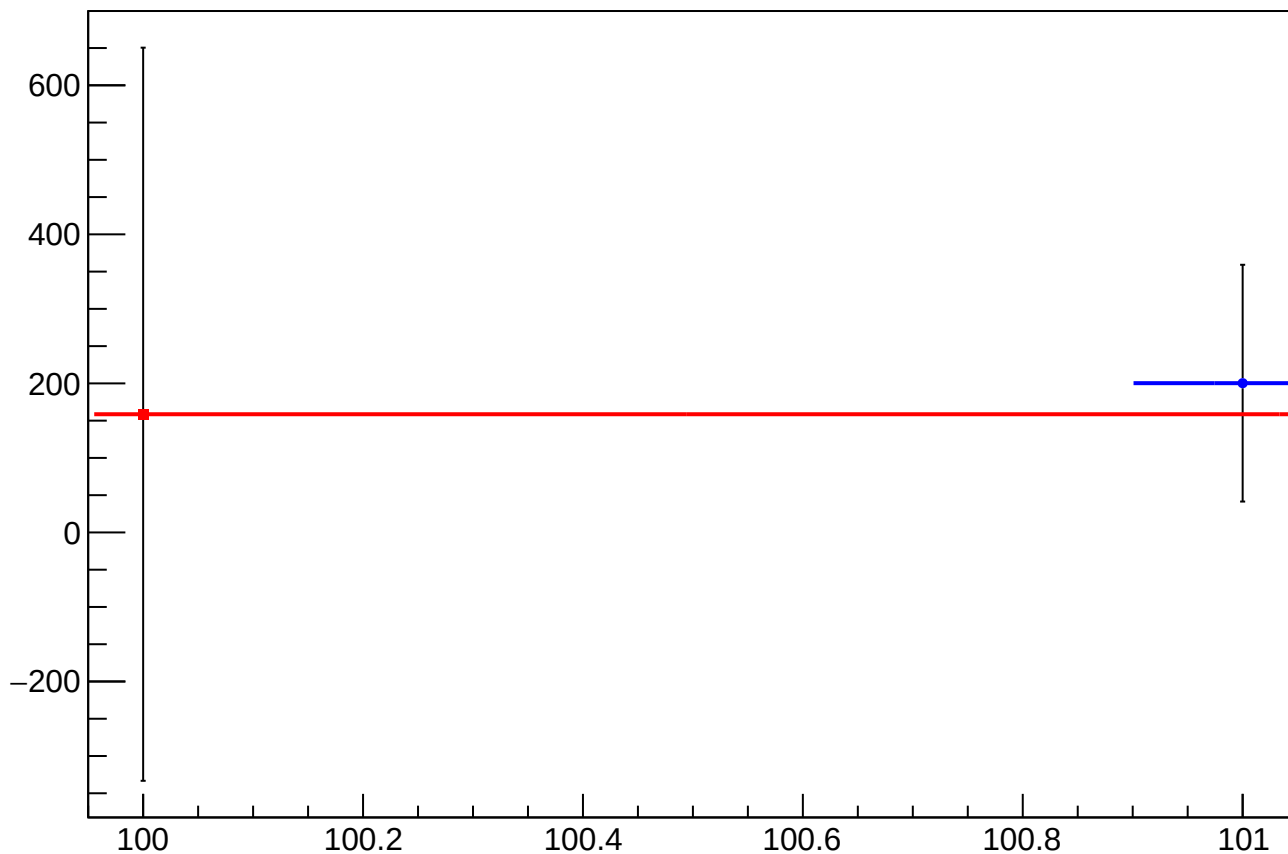
Right: 807.633 $\pm$ 0.670  $\chi^2$ /NDF: 4908.0/1

In: 795.001 $\pm$ 0.694  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 807.633 $\pm$ 0.670  $\chi^2$ /NDF: 4908.0/1

cor\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 200.298+/-158.860  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 158.611+/-491.877  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

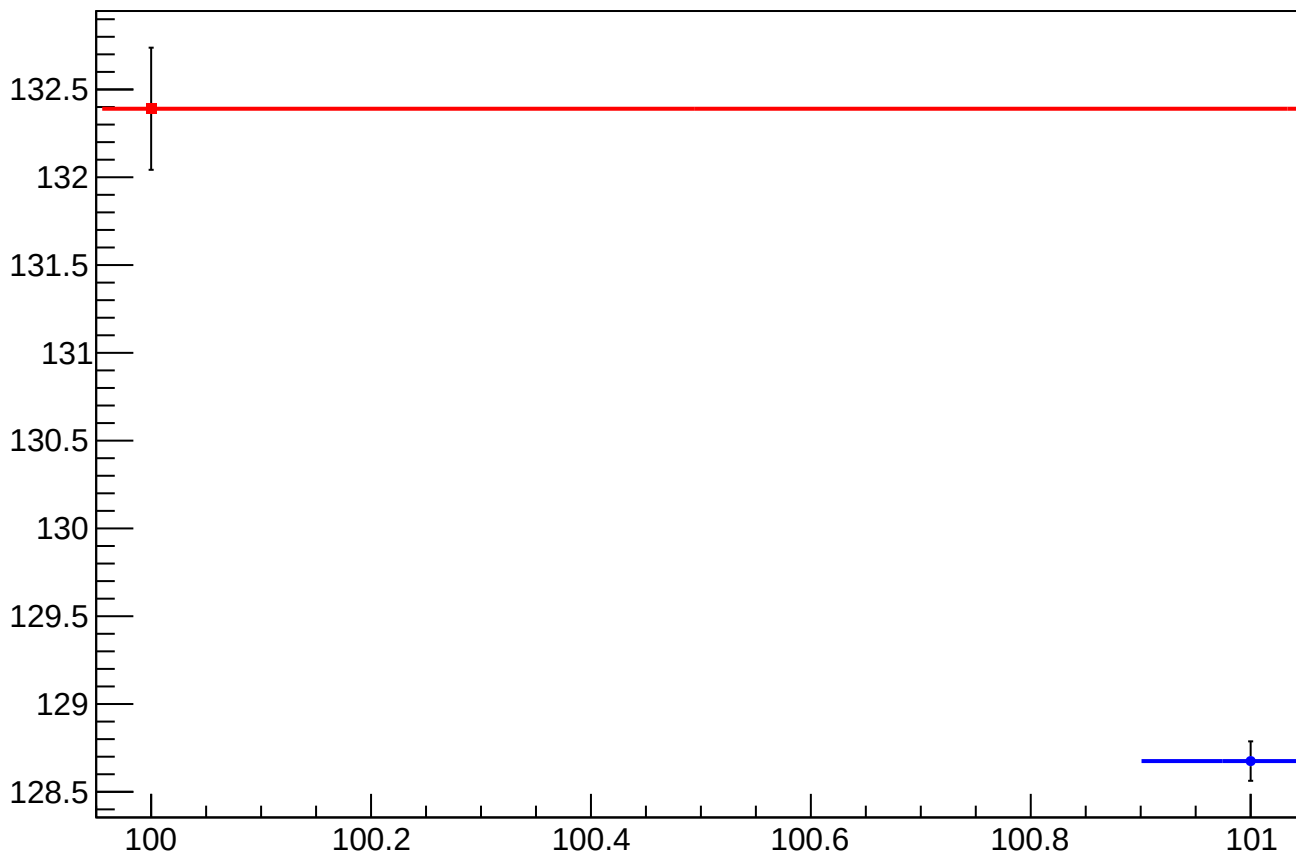
Right: 196.360+/-151.171  $\chi^2/\text{NDF}$ : 0.0/1

In: 200.298+/-158.860  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 196.360+/-151.171  $\chi^2/\text{NDF}$ : 0.0/1

cor\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 128.675 $\pm$ 0.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 132.390 $\pm$ 0.348  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 129.026 $\pm$ 0.107  $\chi^2/\text{NDF}$ : 103.3/1

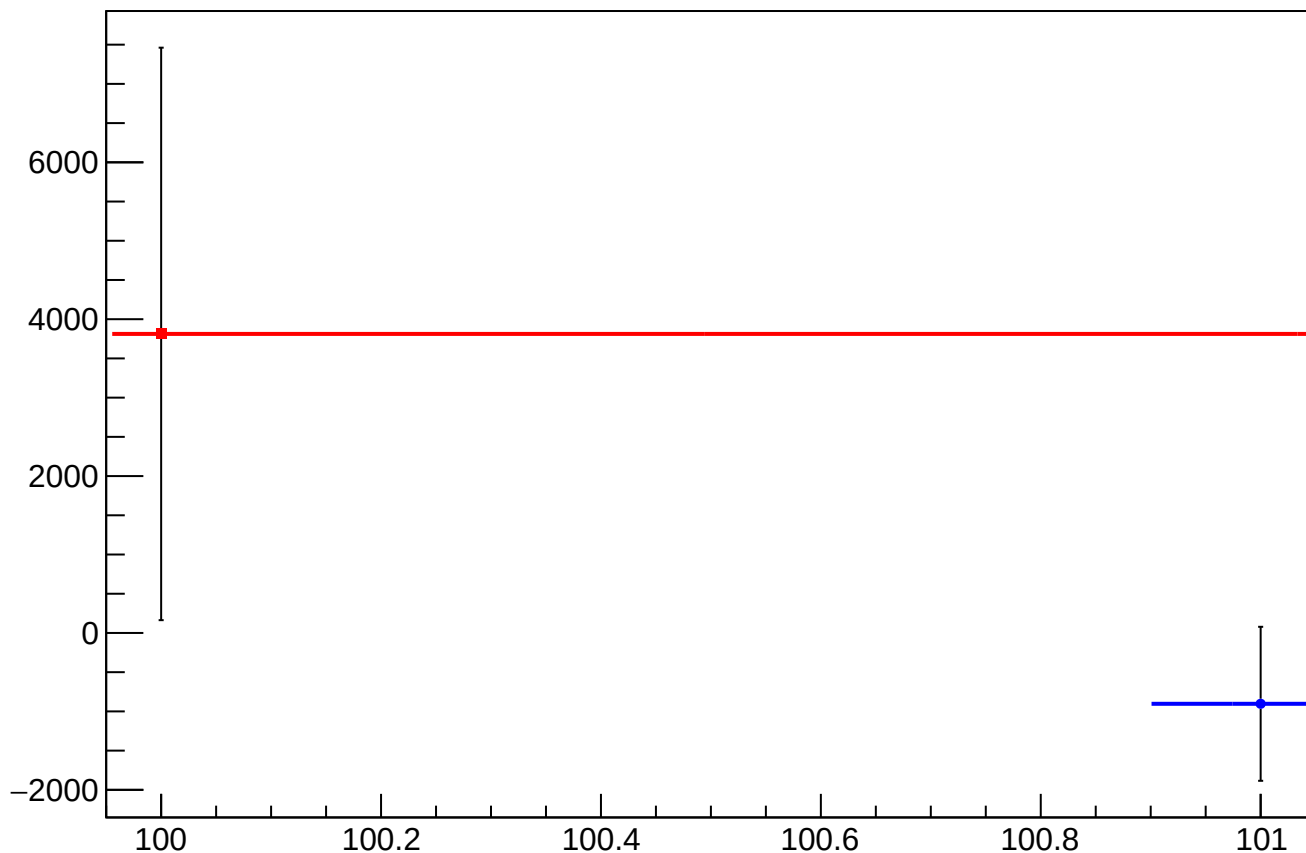
In: 128.675 $\pm$ 0.112  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 129.026 $\pm$ 0.107  $\chi^2/\text{NDF}$ : 103.3/1



asym\_sam\_26\_48\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -903.141+/-981.640  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3812.383+/-3649.237  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

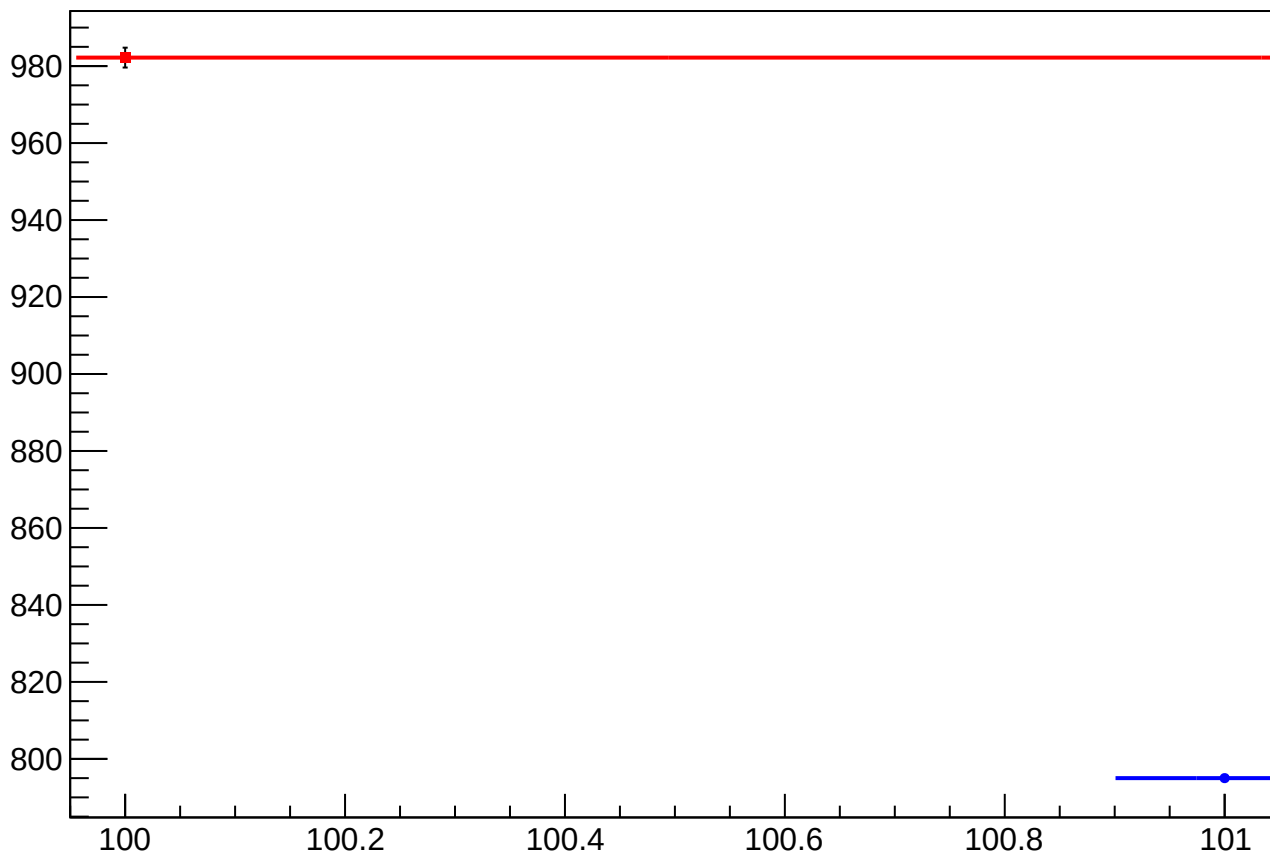
Right: -584.949+/-947.943  $\chi^2/\text{NDF}$ : 1.6/1

In: -903.141+/-981.640  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -584.949+/-947.943  $\chi^2/\text{NDF}$ : 1.6/1

asym\_sam\_26\_48\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 795.003 $\pm$ 0.694  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 982.204 $\pm$ 2.580  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

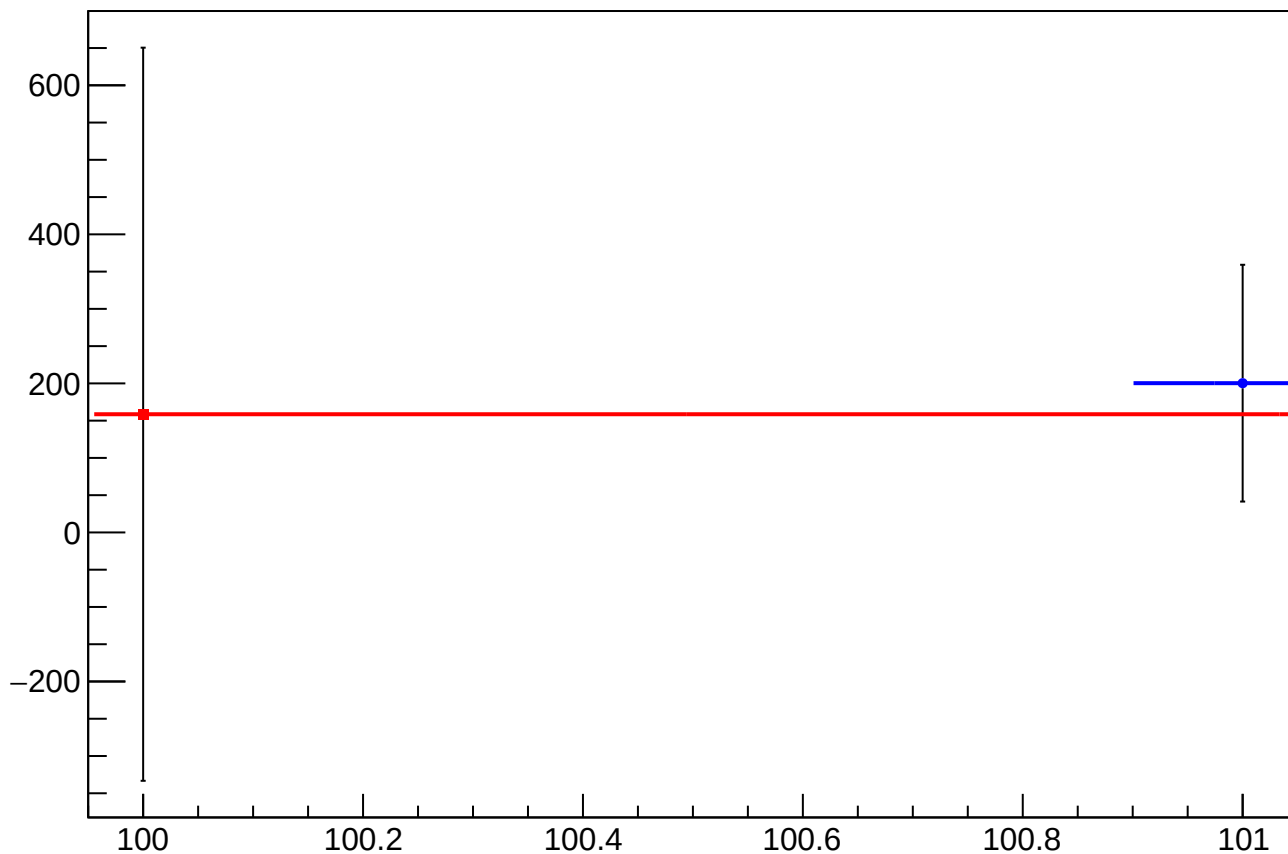
Right: 807.635 $\pm$ 0.670  $\chi^2/\text{NDF}$ : 4908.0/1

In: 795.003 $\pm$ 0.694  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 807.635 $\pm$ 0.670  $\chi^2/\text{NDF}$ : 4908.0/1

eigen\_cor\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 200.298+/-158.860  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 158.611+/-491.877  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

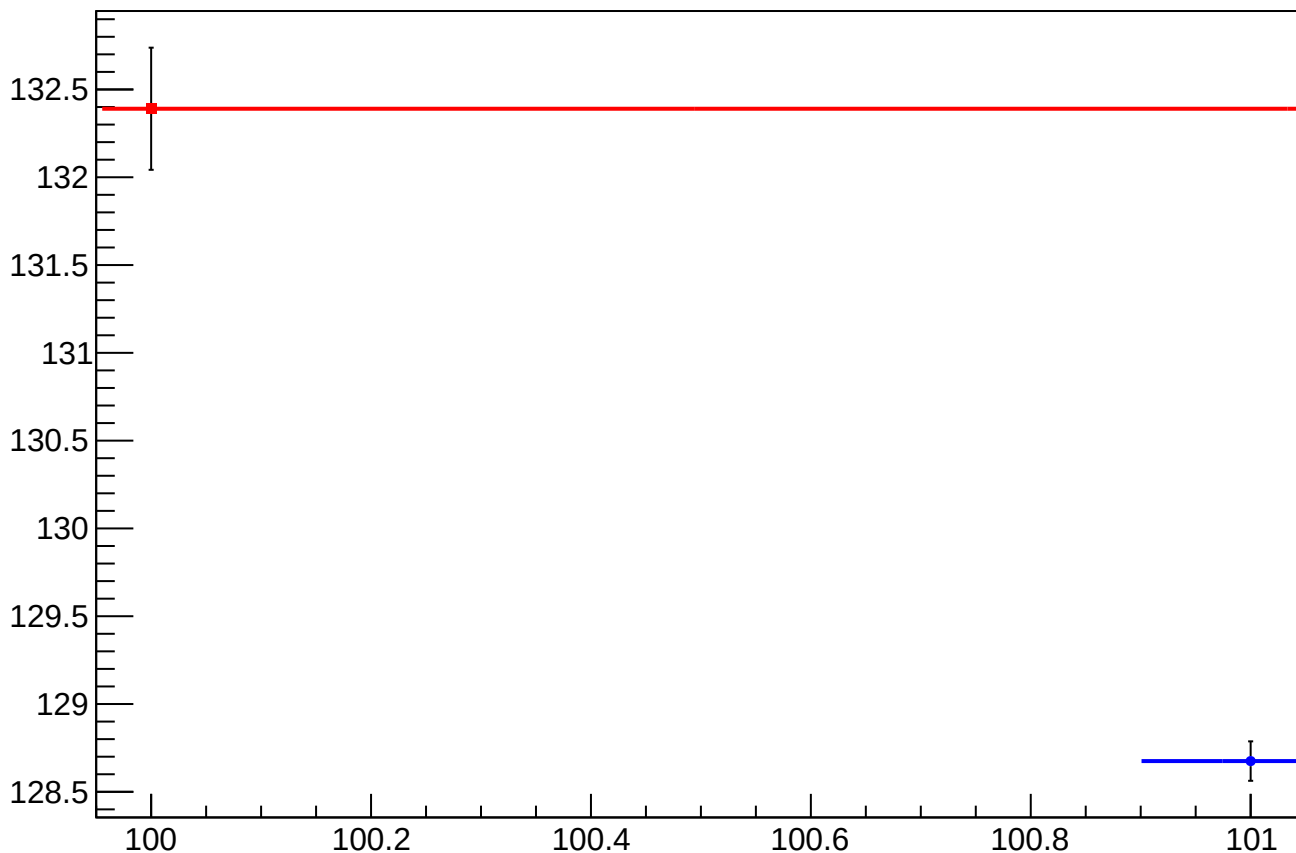
Right: 196.360+/-151.171  $\chi^2/\text{NDF}$ : 0.0/1

In: 200.298+/-158.860  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 196.360+/-151.171  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 128.675 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 132.390 $\pm$ 0.348  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

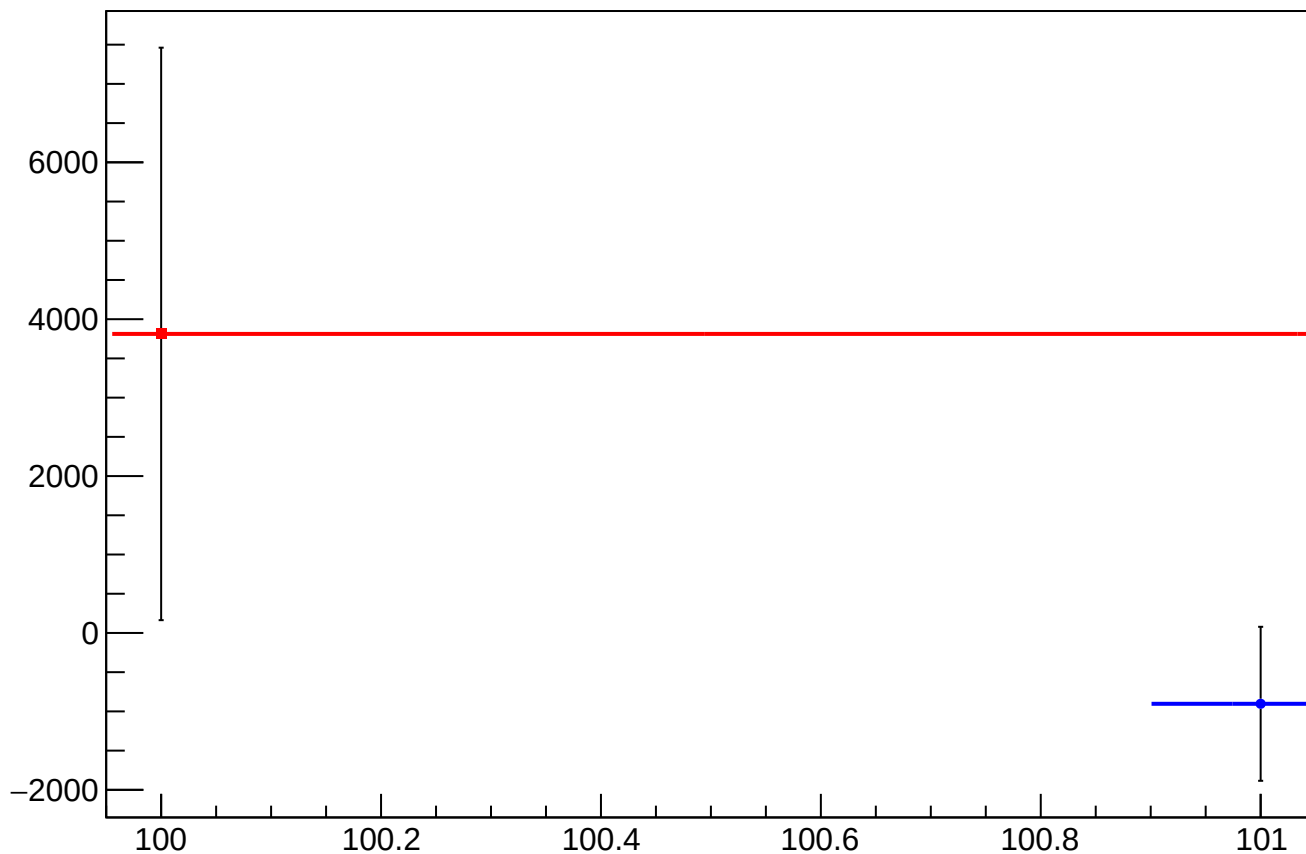
Right: 129.026 $\pm$ 0.107  $\chi^2$ /NDF: 103.3/1

In: 128.675 $\pm$ 0.112  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 129.026 $\pm$ 0.107  $\chi^2$ /NDF: 103.3/1

asym\_sam\_26\_48\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -903.141+/-981.640  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3812.383+/-3649.237  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

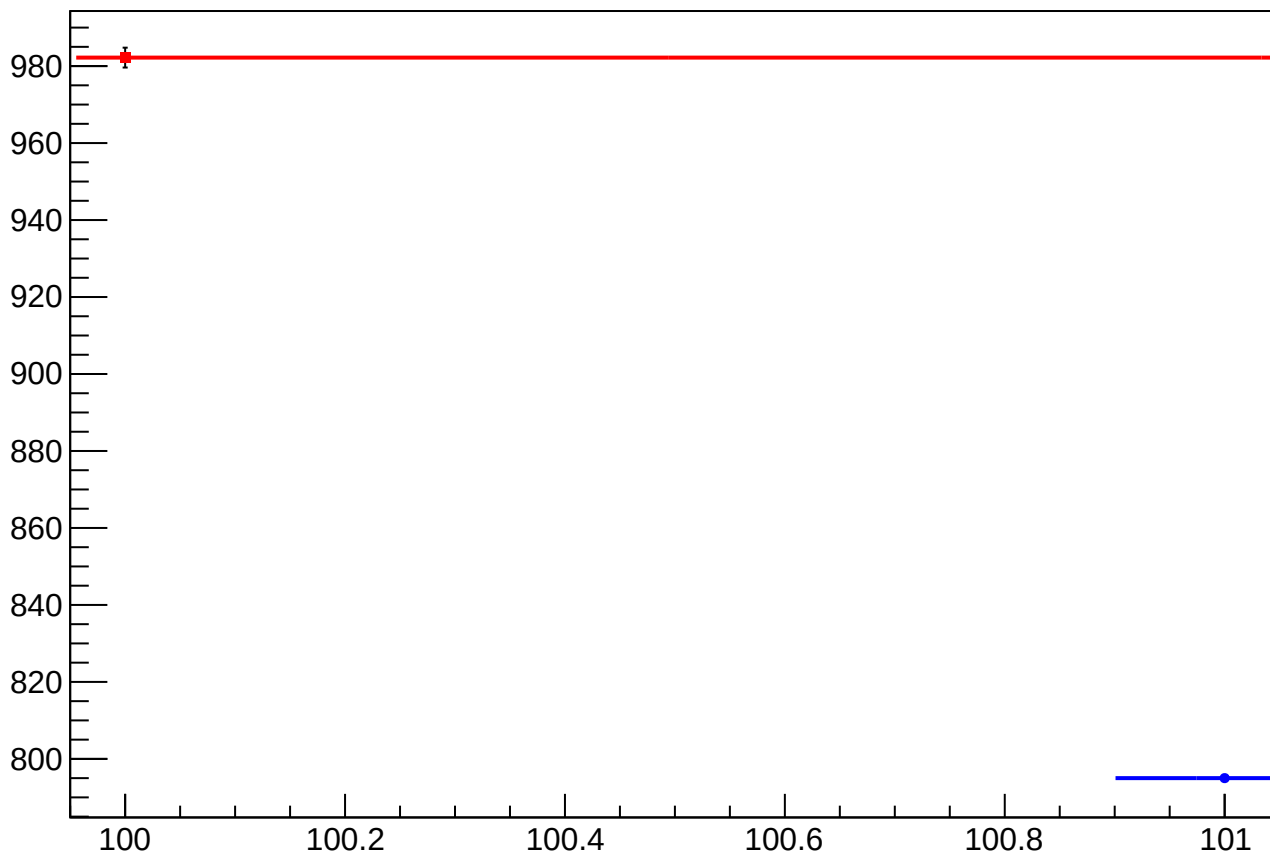
Right: -584.949+/-947.943  $\chi^2/\text{NDF}$ : 1.6/1

In: -903.141+/-981.640  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -584.949+/-947.943  $\chi^2/\text{NDF}$ : 1.6/1

asym\_sam\_26\_48\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 795.003 $\pm$ 0.694  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 982.204 $\pm$ 2.580  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

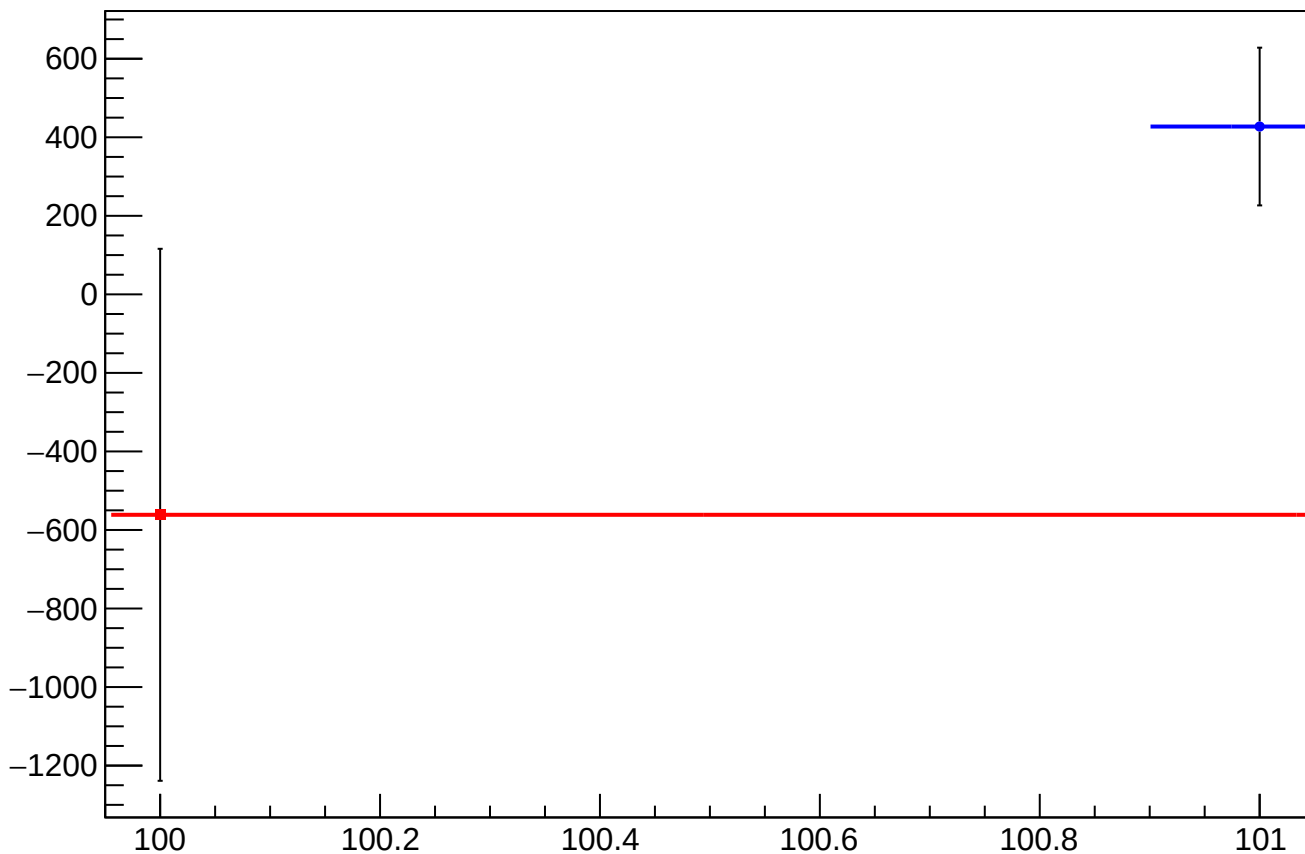
Right: 807.635 $\pm$ 0.670  $\chi^2$ /NDF: 4908.0/1

In: 795.003 $\pm$ 0.694  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 807.635 $\pm$ 0.670  $\chi^2$ /NDF: 4908.0/1

dit\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 427.366+/-200.834  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -561.357+/-677.368  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

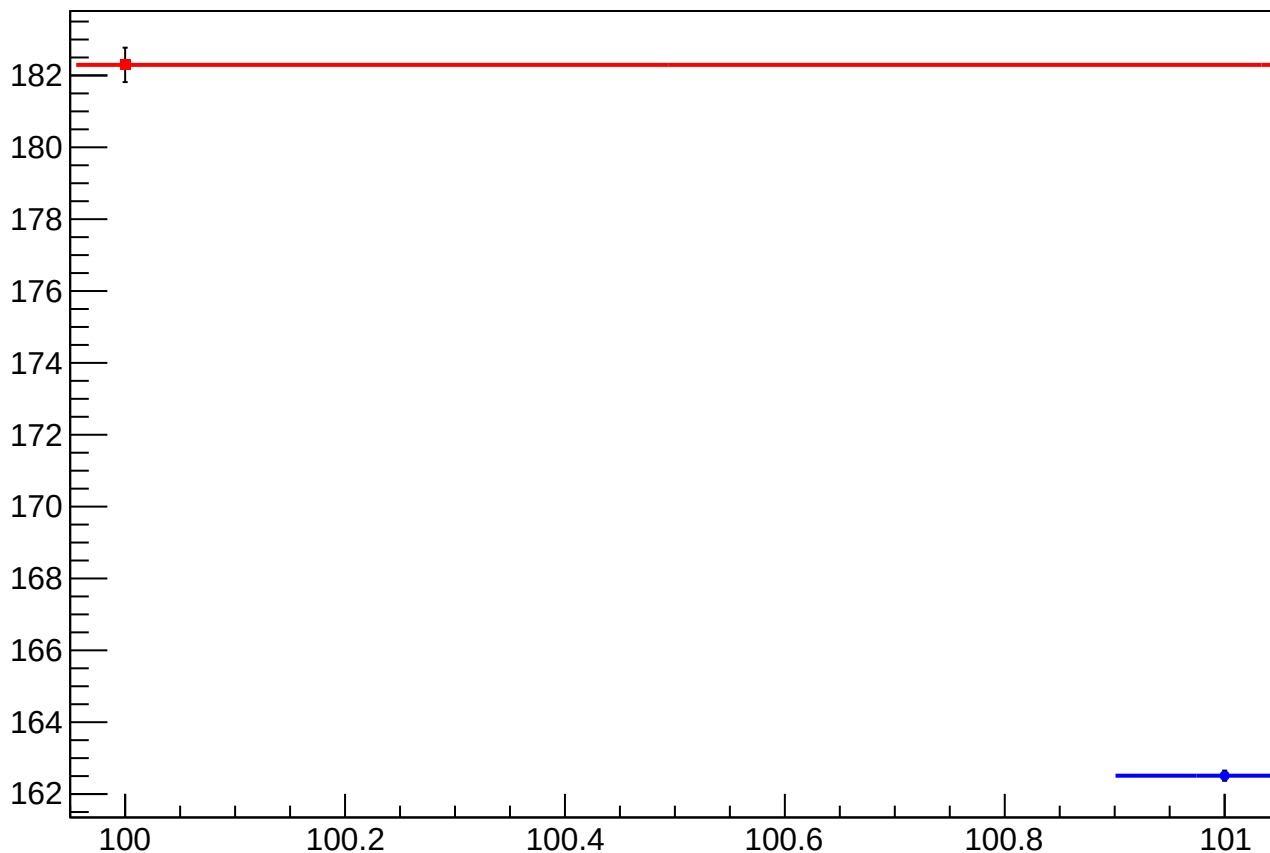
Right: 347.473+/-192.549  $\chi^2$ /NDF: 2.0/1

In: 427.366+/-200.834  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 347.473+/-192.549  $\chi^2$ /NDF: 2.0/1

dit\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 162.511 $\pm$ 0.142  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 182.294 $\pm$ 0.479  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 164.110 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 1568.1/1

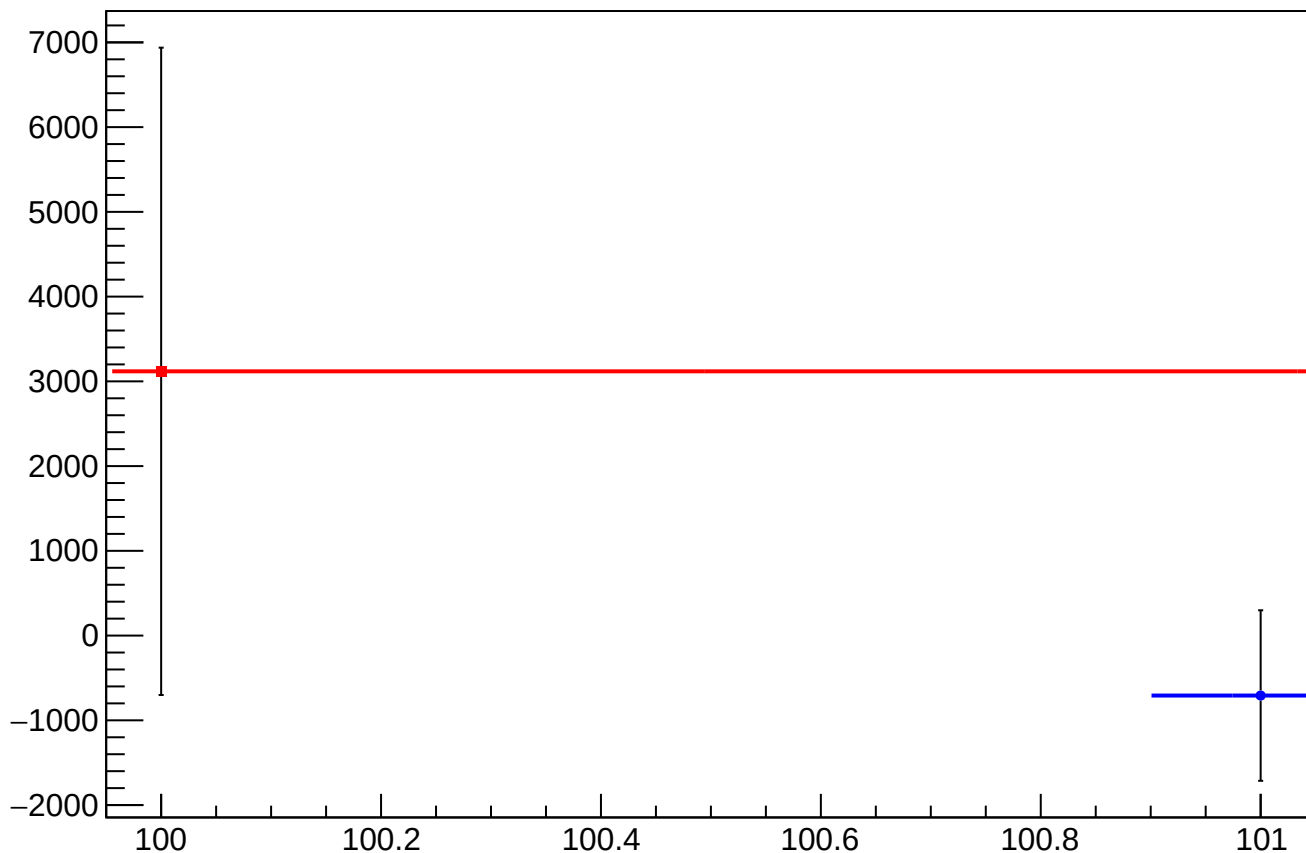
In: 162.511 $\pm$ 0.142  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 164.110 $\pm$ 0.136  $\chi^2/\text{NDF}$ : 1568.1/1



asym\_sam\_26\_48\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -707.511+/-1006.115  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3118.254+/-3819.310  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

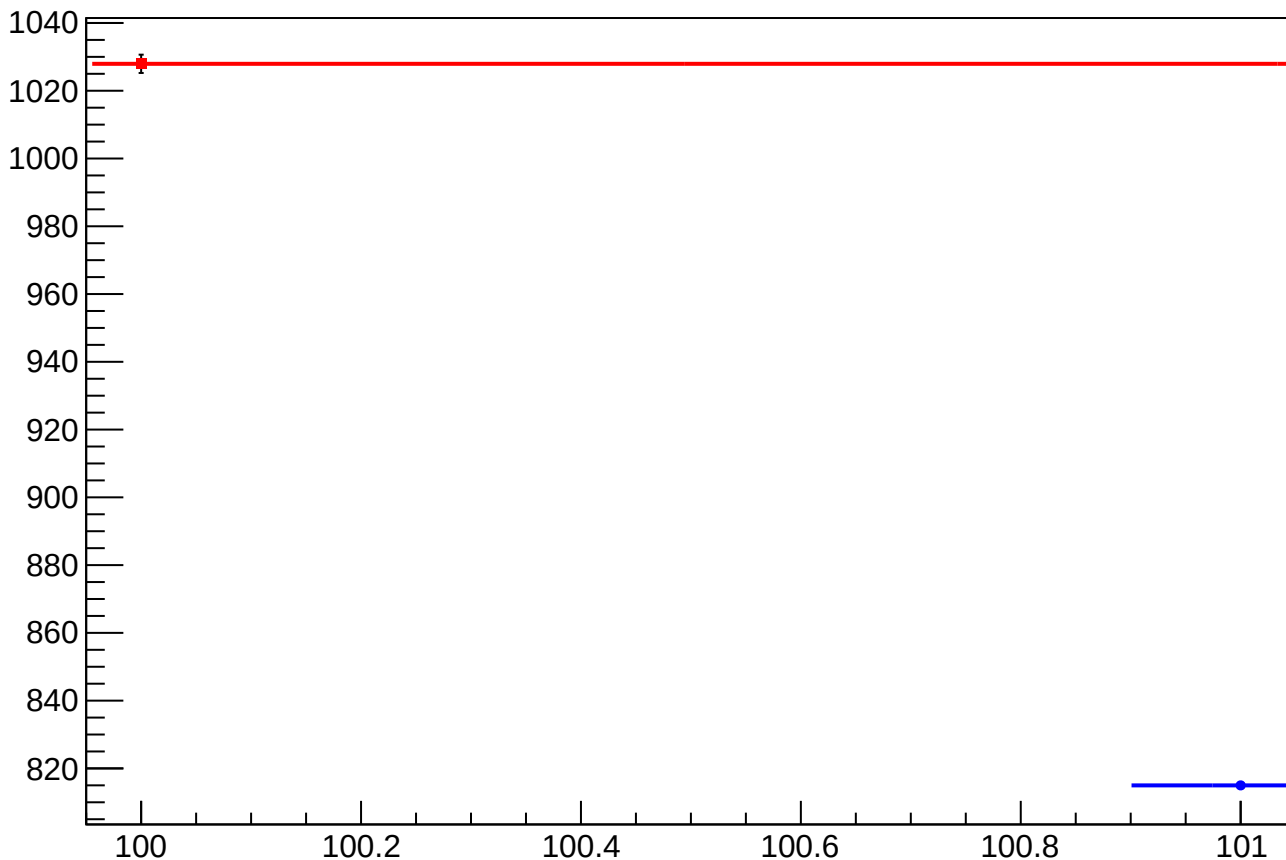
Right: -459.251+/-972.924  $\chi^2/\text{NDF}$ : 0.9/1

In: -707.511+/-1006.115  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -459.251+/-972.924  $\chi^2/\text{NDF}$ : 0.9/1

asym\_sam\_26\_48\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 814.988 $\pm$ 0.711  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1027.946 $\pm$ 2.701  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

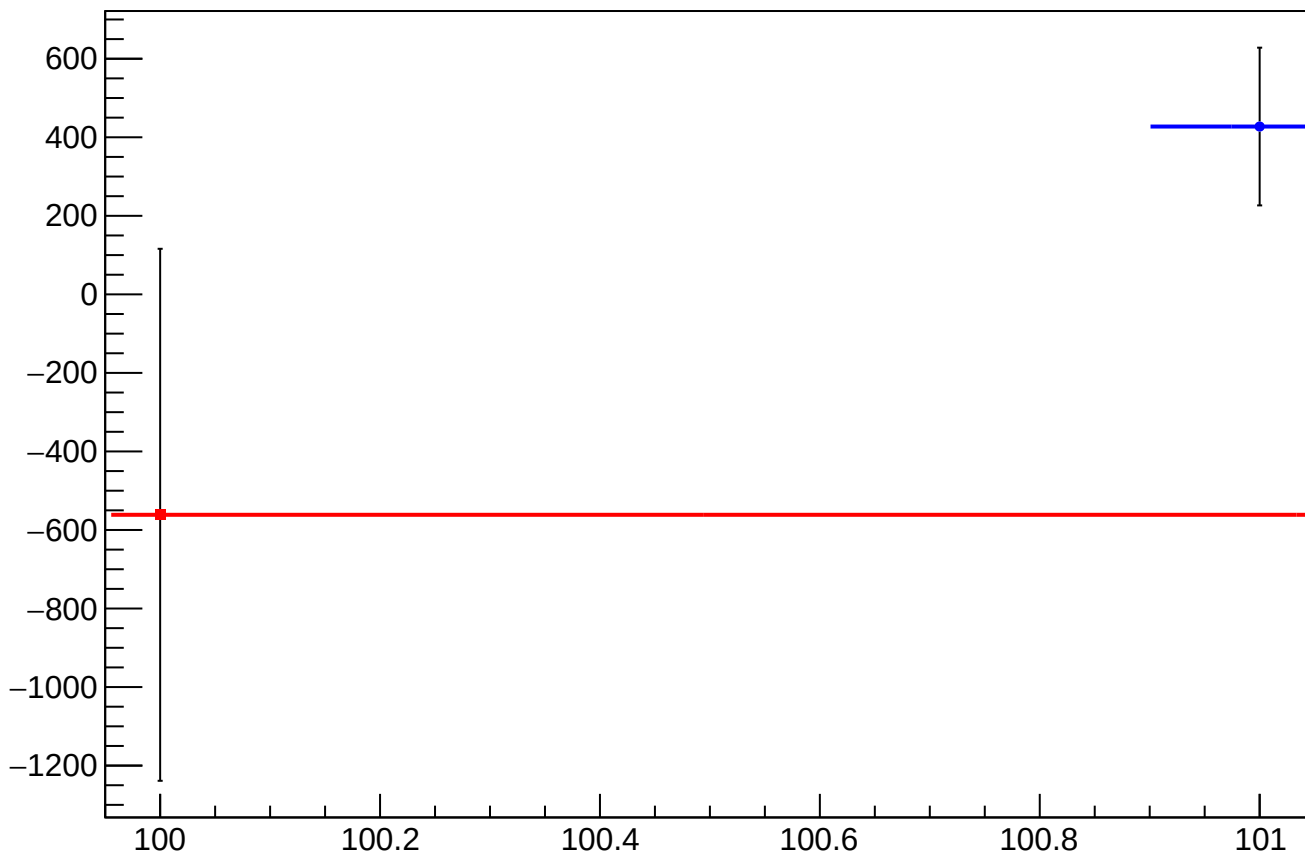
Right: 828.807 $\pm$ 0.688  $\chi^2$ /NDF: 5814.5/1

In: 814.988 $\pm$ 0.711  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 828.807 $\pm$ 0.688  $\chi^2$ /NDF: 5814.5/1

eigen\_dit\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 427.363+/-200.834  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -561.344+/-677.369  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

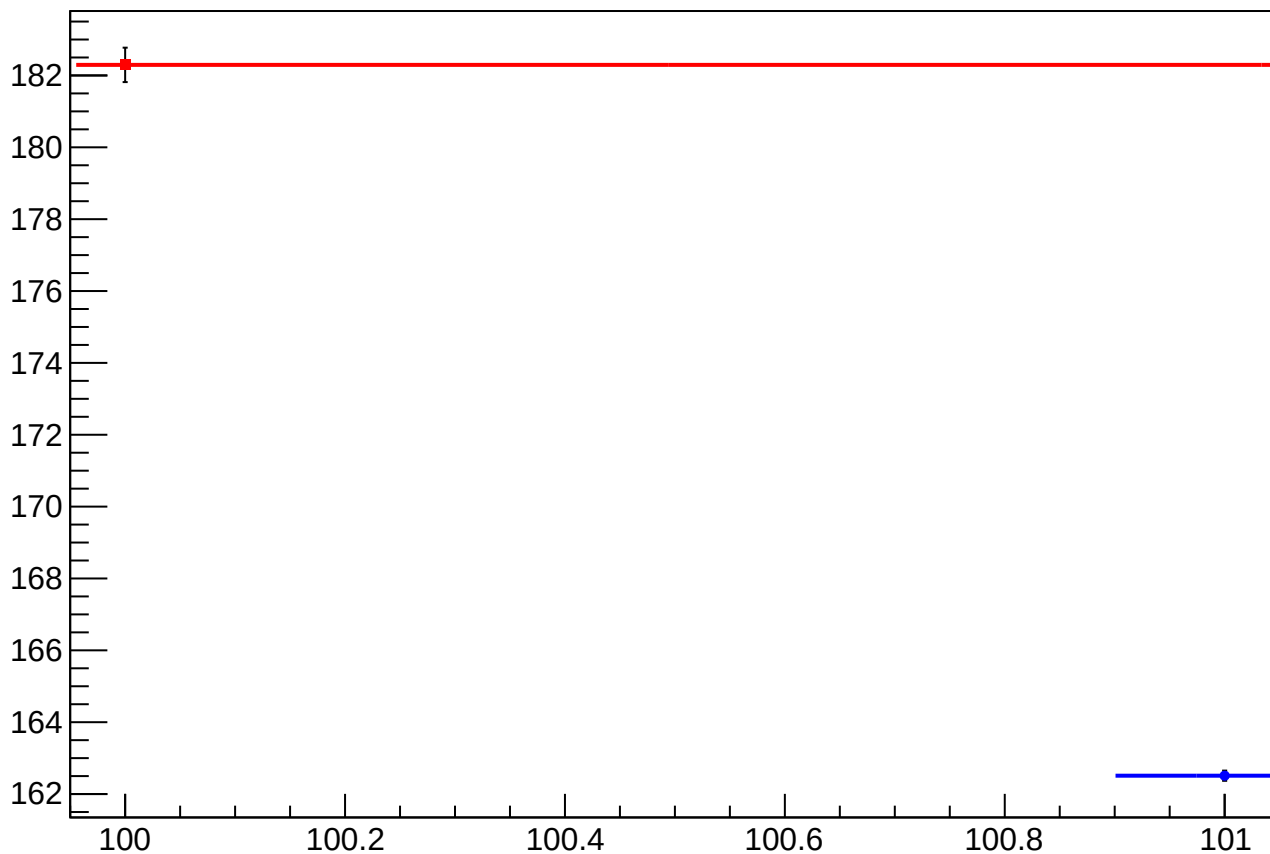
Right: 347.472+/-192.549  $\chi^2/\text{NDF}$ : 2.0/1

In: 427.363+/-200.834  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 347.472+/-192.549  $\chi^2/\text{NDF}$ : 2.0/1

eigen\_dit\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 162.511+/-0.142  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 182.294+/-0.479  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

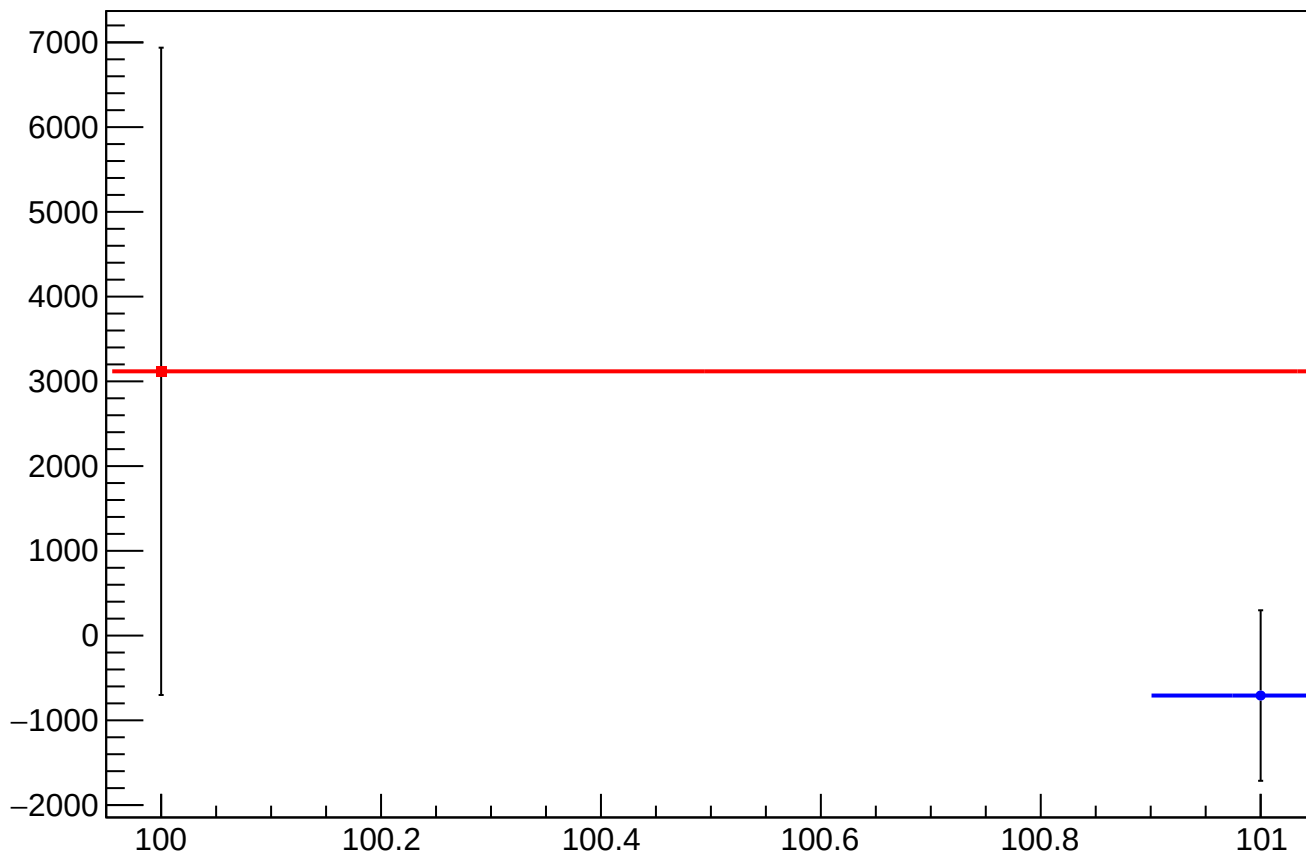
Right: 164.109+/-0.136  $\chi^2/\text{NDF}$ : 1568.1/1

In: 162.511+/-0.142  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 164.109+/-0.136  $\chi^2/\text{NDF}$ : 1568.1/1

asym\_sam\_26\_48\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -707.515+/-1006.116  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3118.266+/-3819.316  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

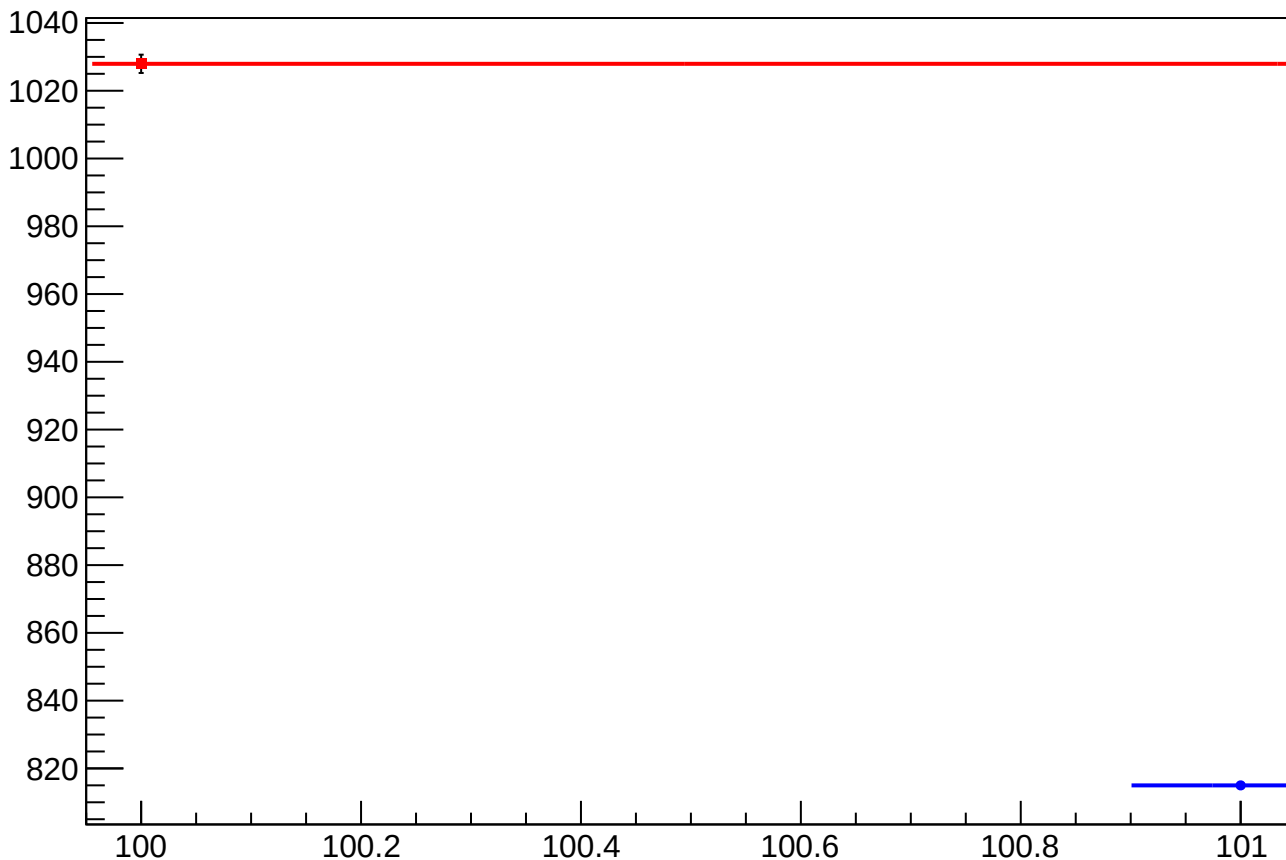
Right: -459.255+/-972.925  $\chi^2/\text{NDF}$ : 0.9/1

In: -707.515+/-1006.116  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -459.255+/-972.925  $\chi^2/\text{NDF}$ : 0.9/1

asym\_sam\_26\_48\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 814.989 $\pm$ 0.711  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 1027.947 $\pm$ 2.701  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

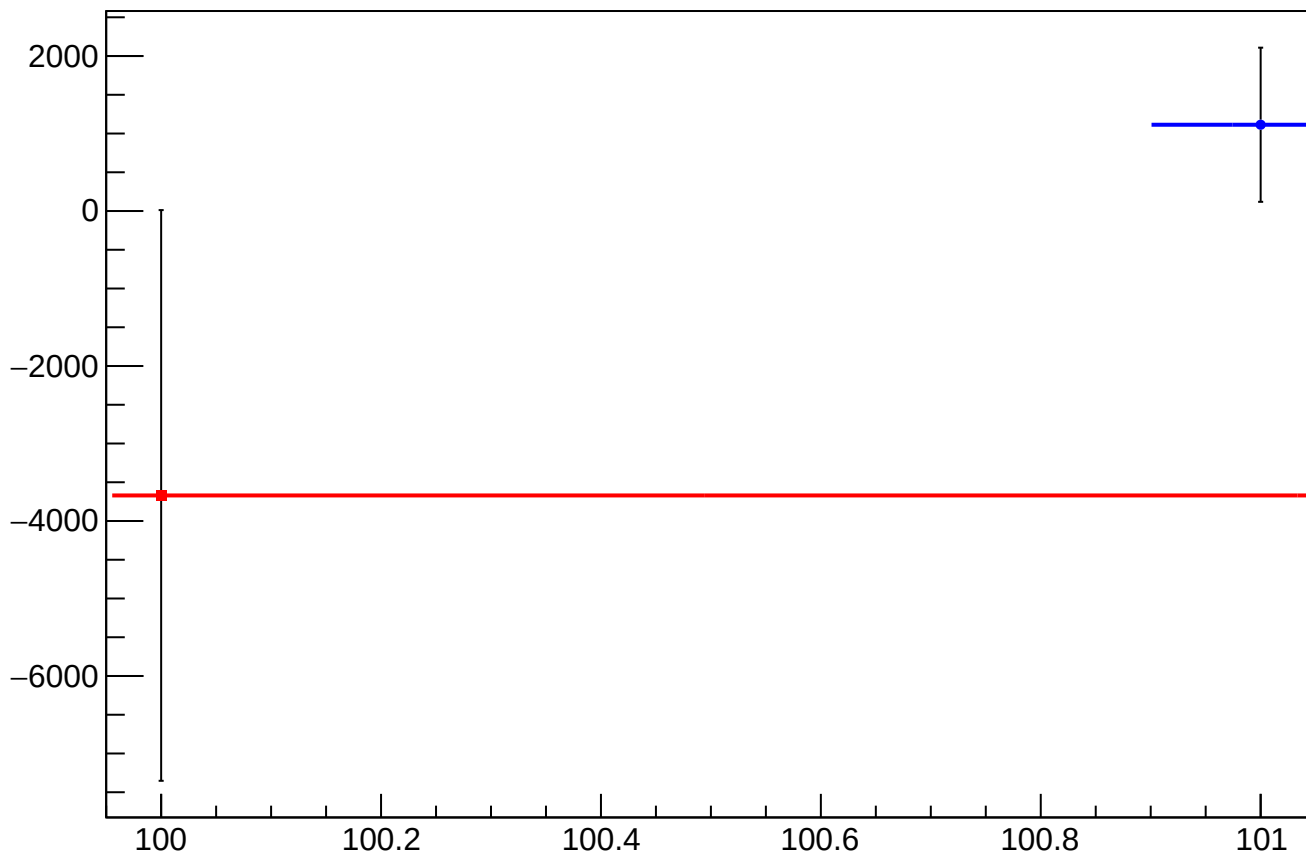
Right: 828.808 $\pm$ 0.688  $\chi^2$ /NDF: 5814.5/1

In: 814.989 $\pm$ 0.711  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 828.808 $\pm$ 0.688  $\chi^2$ /NDF: 5814.5/1

asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 1113.283+/-994.593  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3670.213+/-3682.250  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

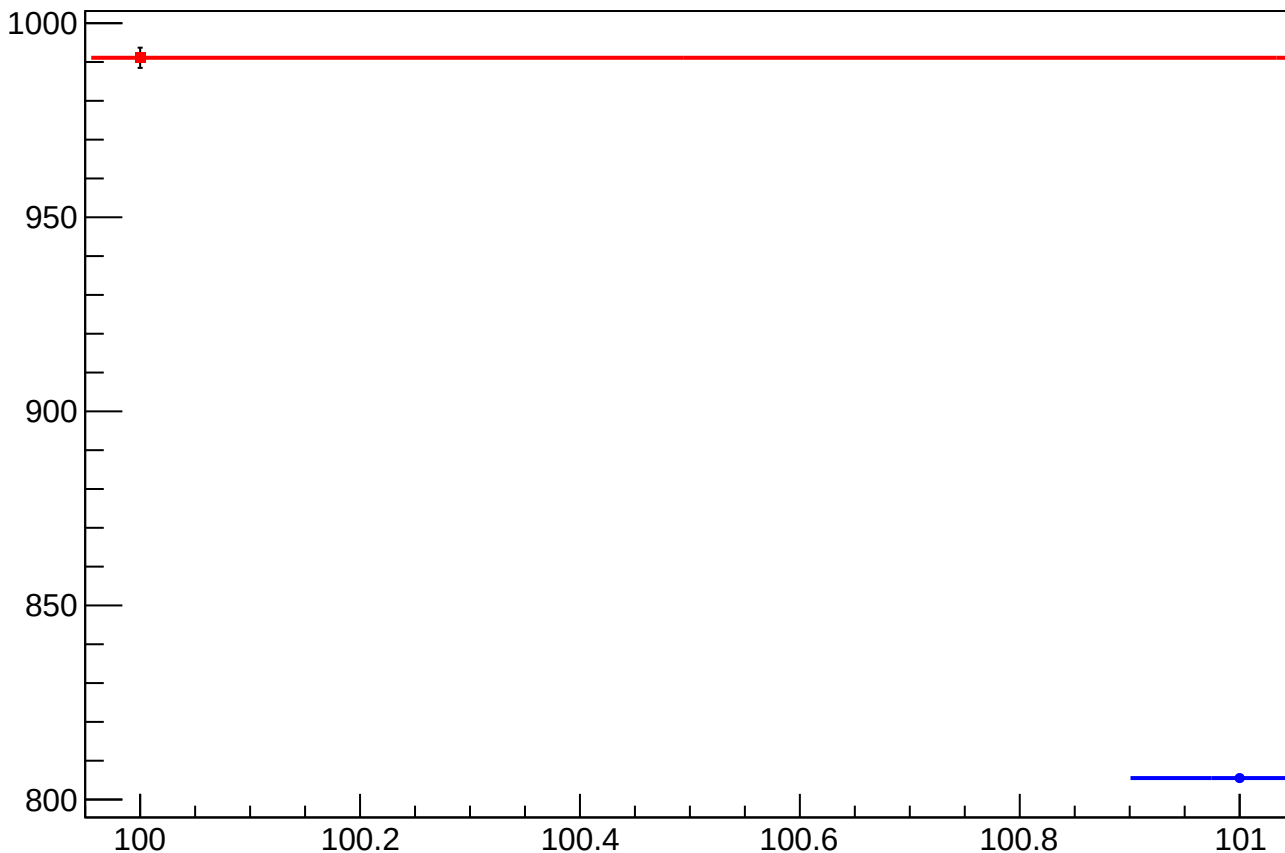
Right: 788.025+/-960.184  $\chi^2/\text{NDF}$ : 1.6/1

In: 1113.283+/-994.593  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 788.025+/-960.184  $\chi^2/\text{NDF}$ : 1.6/1

# asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 805.528 $\pm$ 0.703  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 991.090 $\pm$ 2.604  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 818.145 $\pm$ 0.679  $\chi^2$ /NDF: 4733.7/1

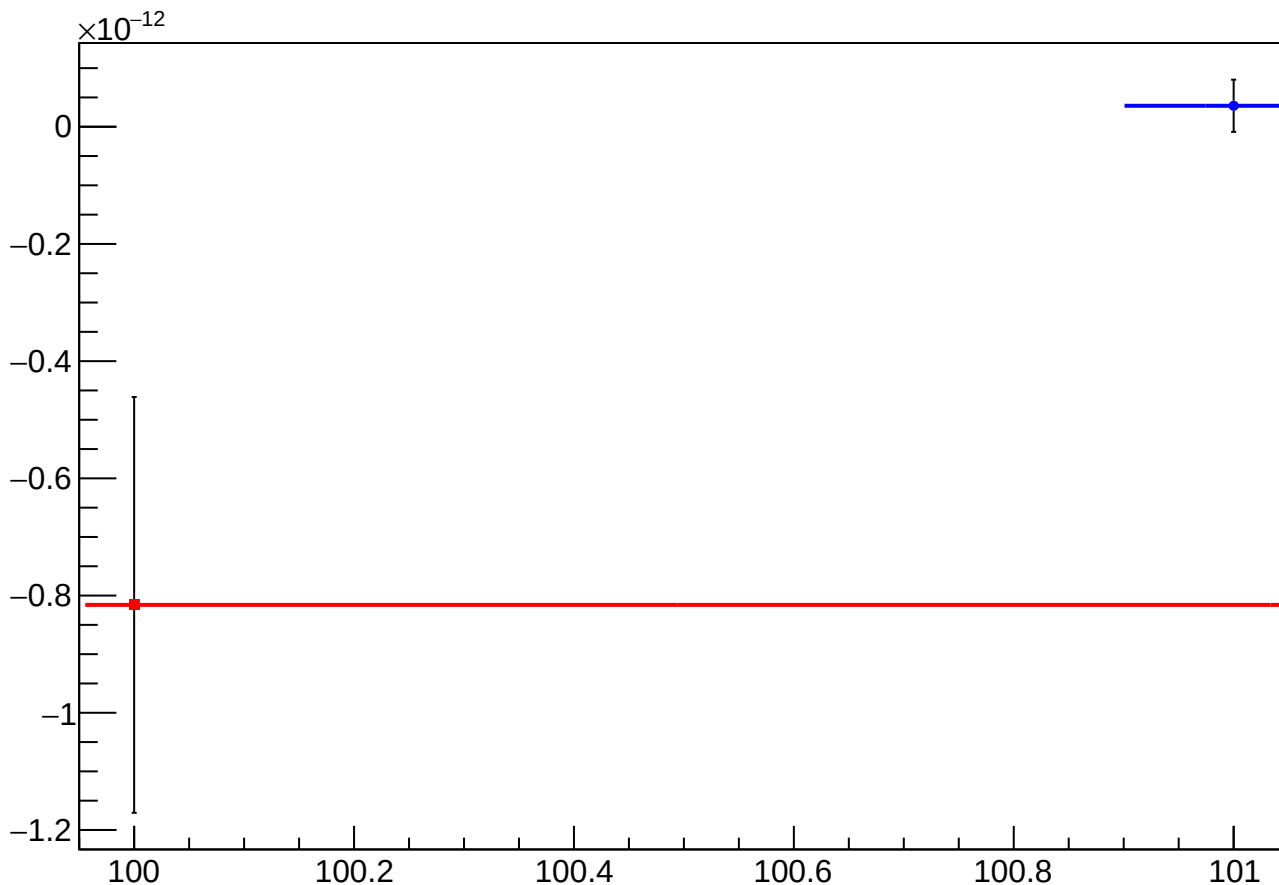
In: 805.528 $\pm$ 0.703  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 818.145 $\pm$ 0.679  $\chi^2$ /NDF: 4733.7/1



asym\_sam\_26\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

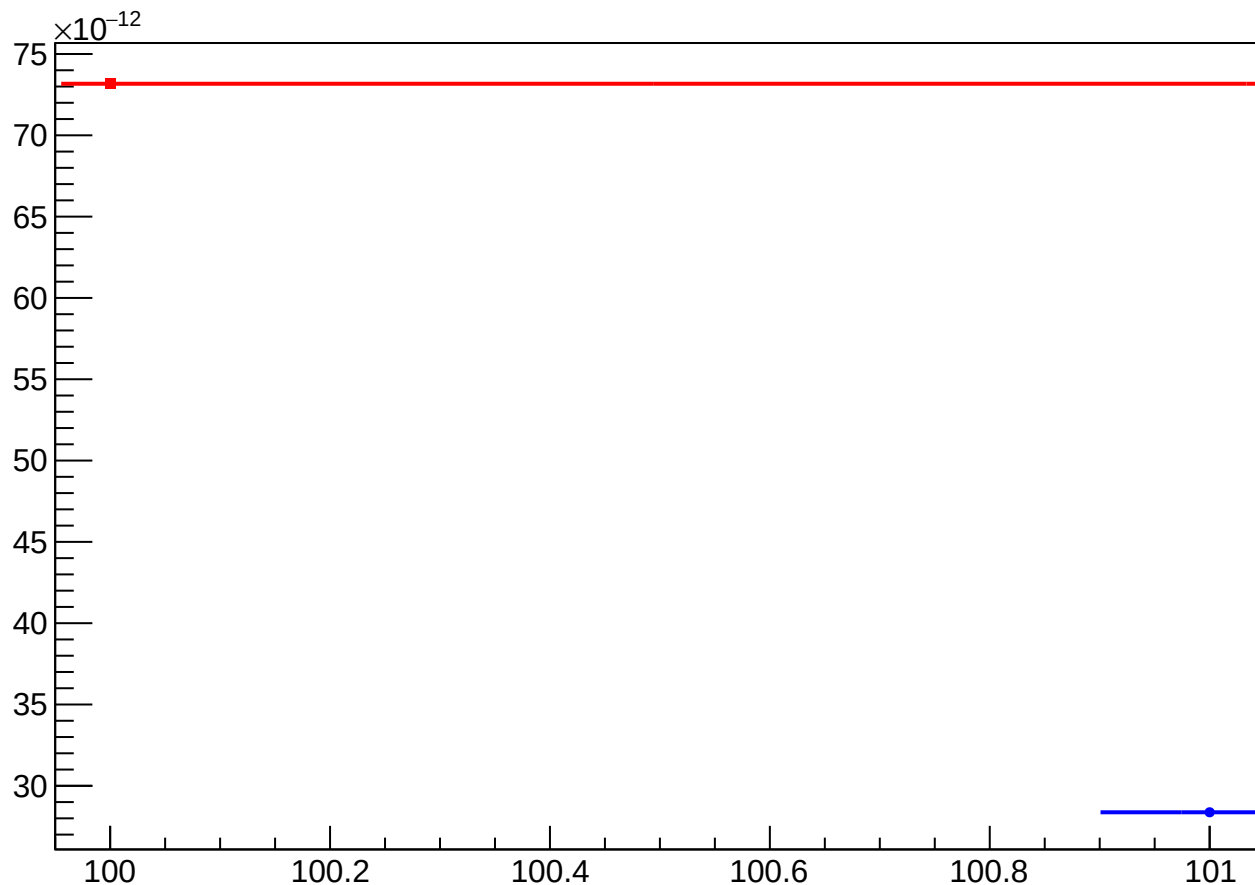
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam\_26\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

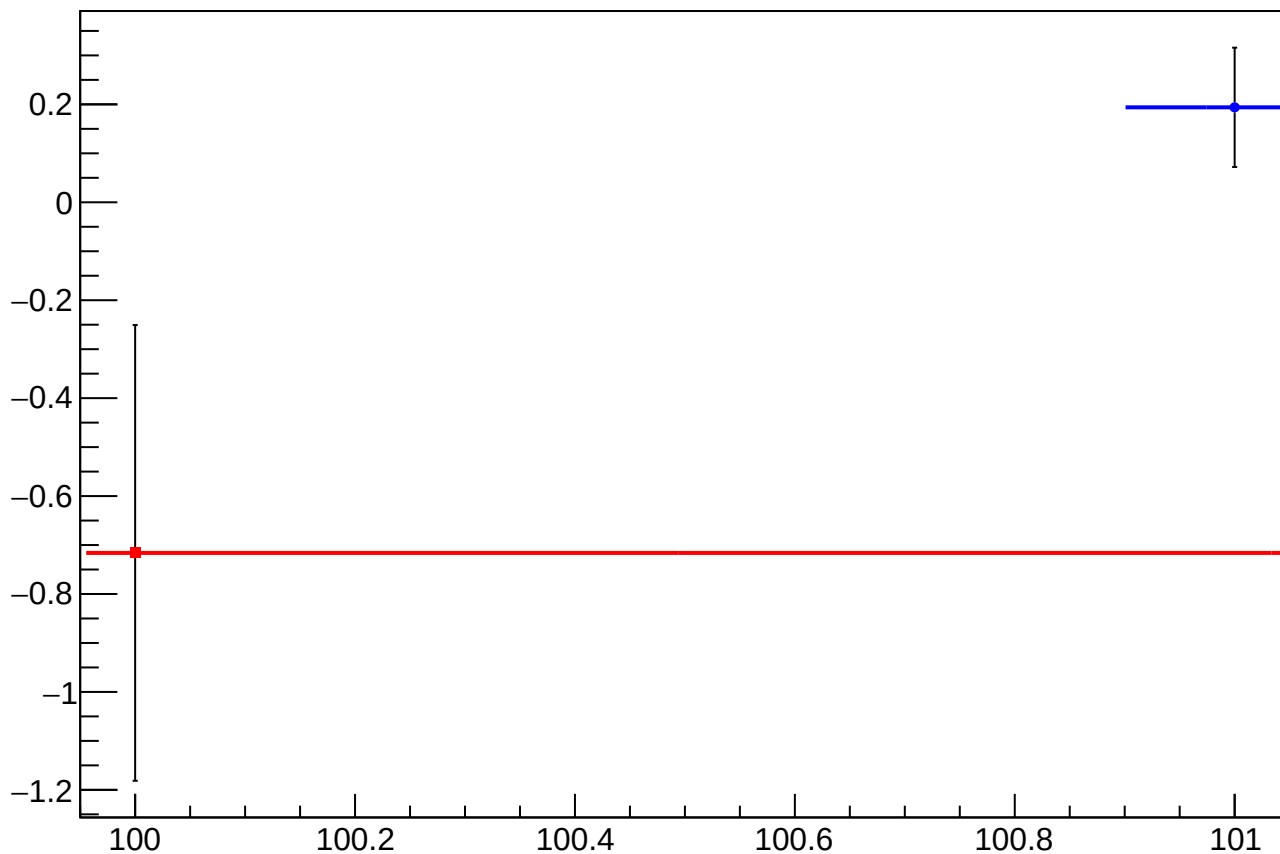
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 31394.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 31394.8/1

asym\_sam\_26\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.194+/-0.122  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.716+/-0.465  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

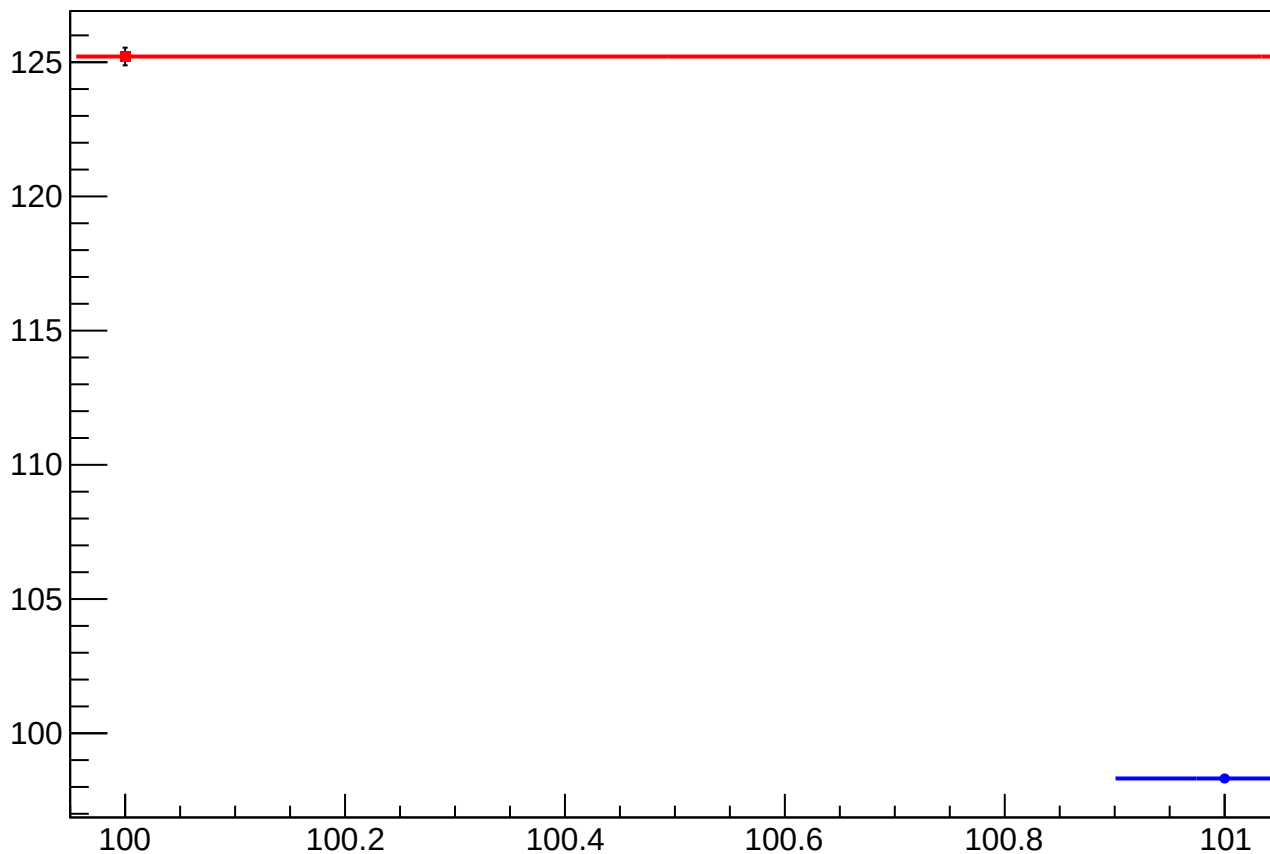
Right: 0.136+/-0.118  $\chi^2/\text{NDF}$ : 3.6/1

In: 0.194+/-0.122  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.136+/-0.118  $\chi^2/\text{NDF}$ : 3.6/1

asym\_sam\_26\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 98.315 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.213 $\pm$ 0.329  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

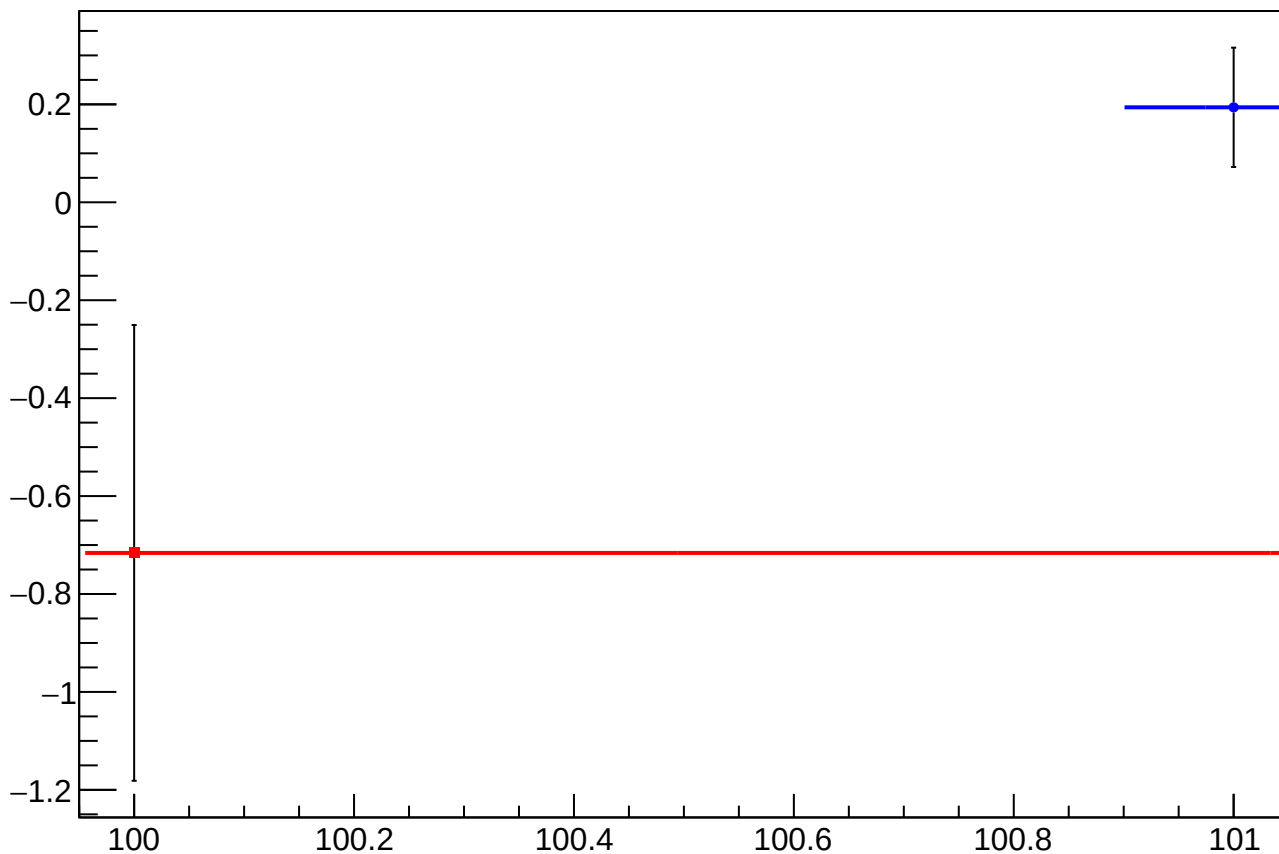
Right: 100.041 $\pm$ 0.083  $\chi^2$ /NDF: 6251.7/1

In: 98.315 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.041 $\pm$ 0.083  $\chi^2$ /NDF: 6251.7/1

asym\_sam\_26\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.194+/-0.122  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.716+/-0.465  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

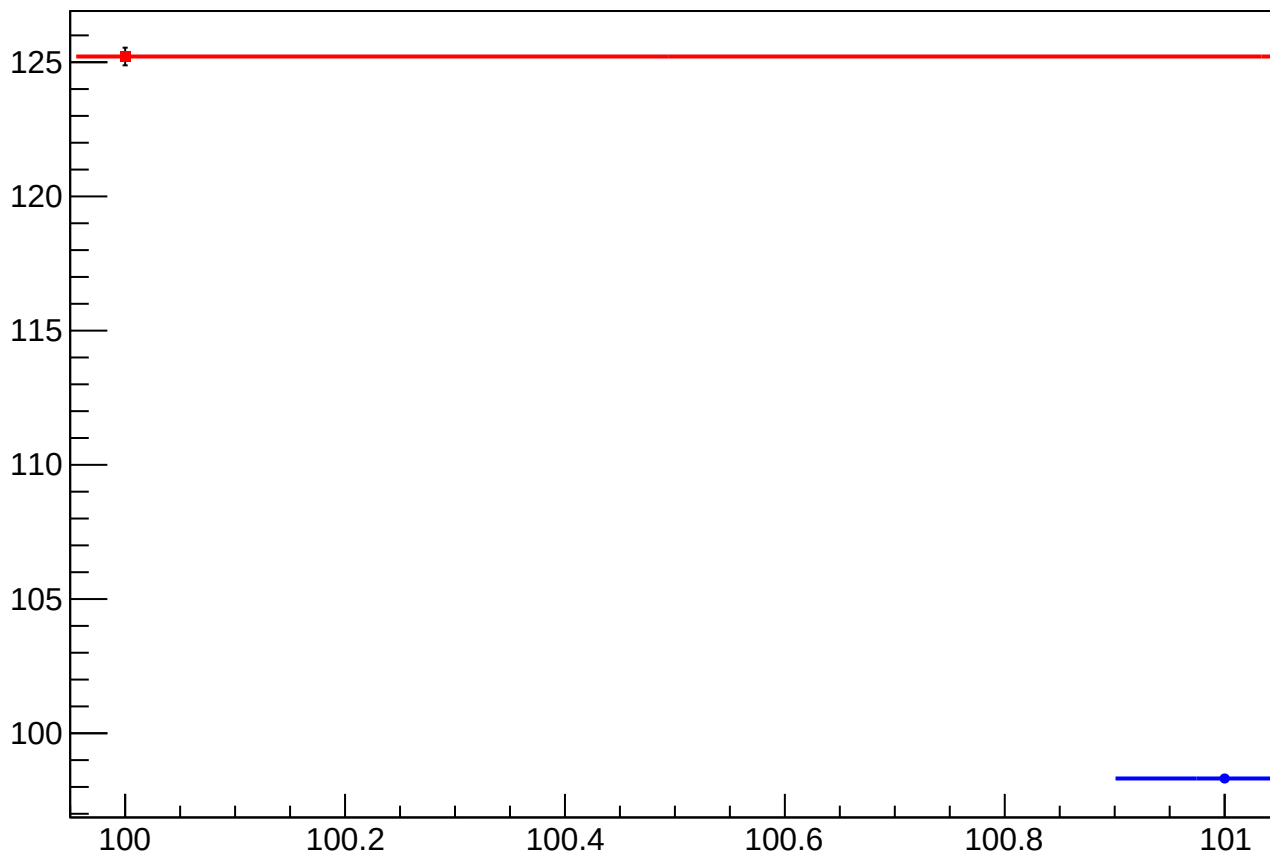
Right: 0.136+/-0.118  $\chi^2/\text{NDF}$ : 3.6/1

In: 0.194+/-0.122  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.136+/-0.118  $\chi^2/\text{NDF}$ : 3.6/1

asym\_sam\_26\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 98.315 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.213 $\pm$ 0.329  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

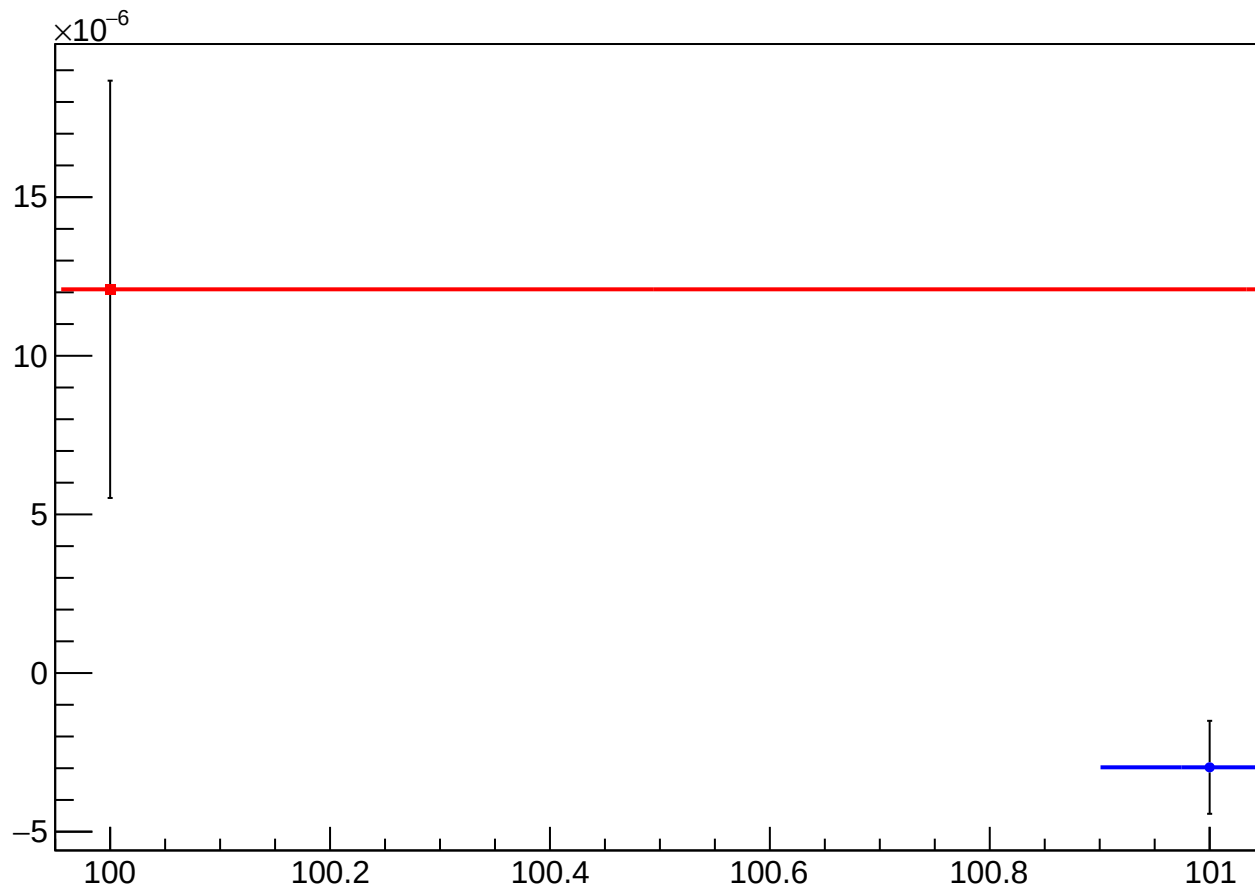
Right: 100.041 $\pm$ 0.083  $\chi^2$ /NDF: 6251.7/1

In: 98.315 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.041 $\pm$ 0.083  $\chi^2$ /NDF: 6251.7/1

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

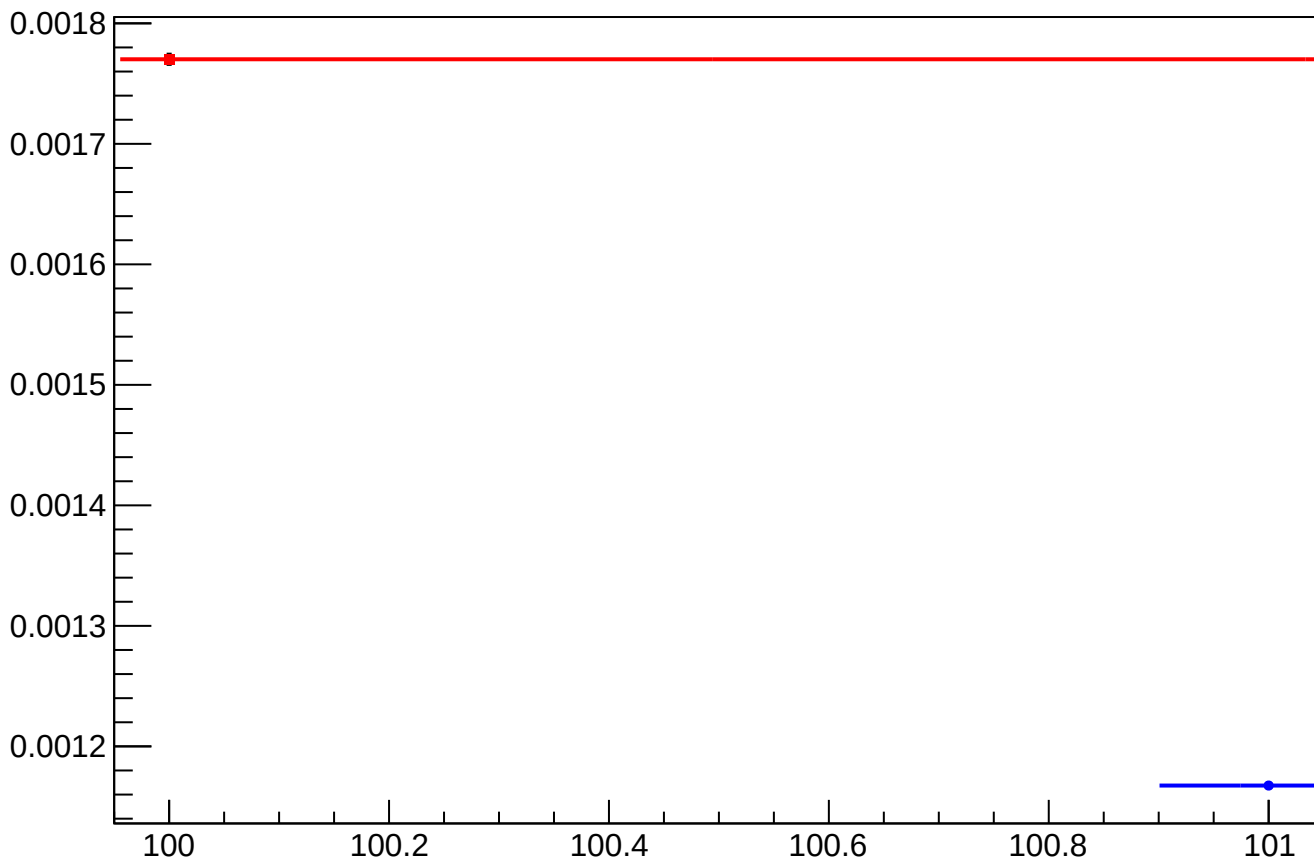
Right: -0.000+/-0.000  $\chi^2$ /NDF: 5.0/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 5.0/1

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 16001.9/1

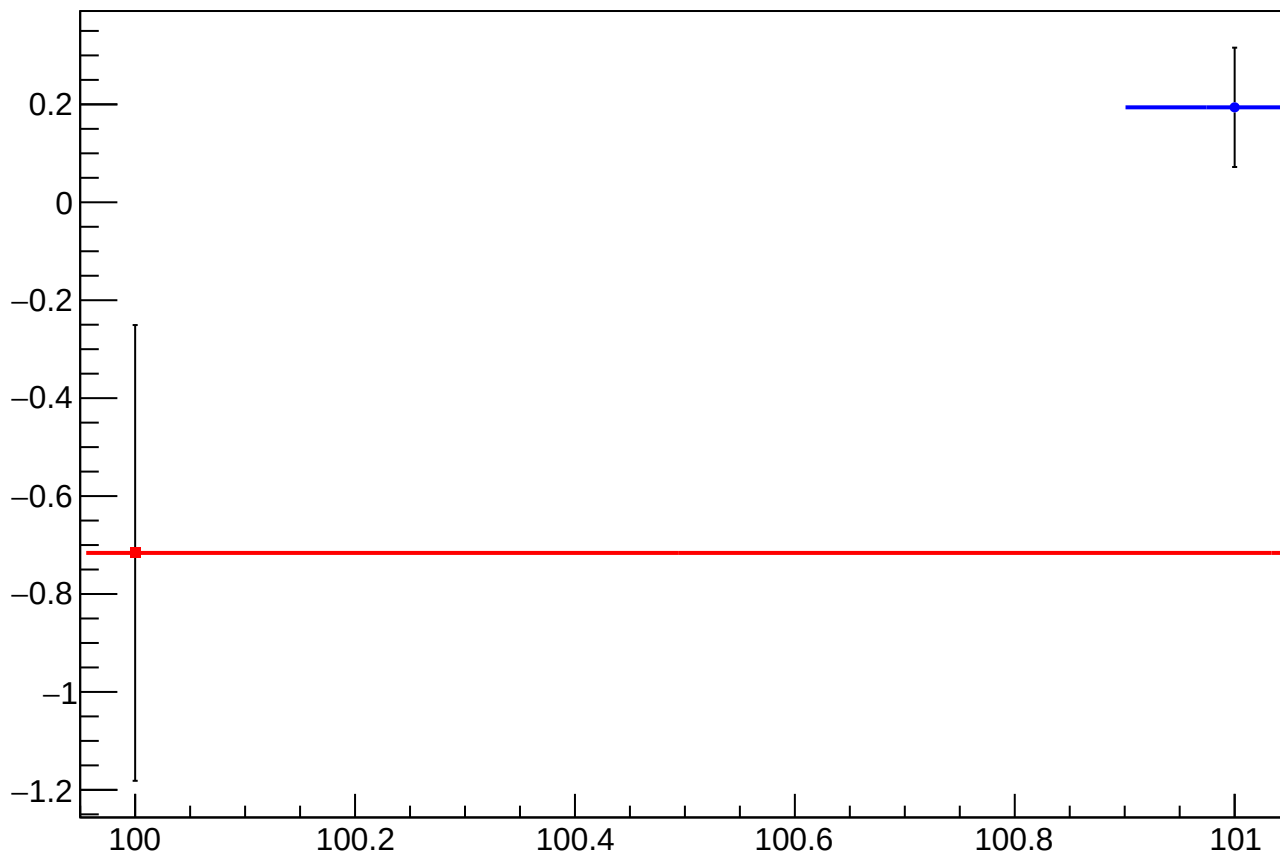
In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 16001.9/1



asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.194 $\pm$ 0.122  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.716 $\pm$ 0.465  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

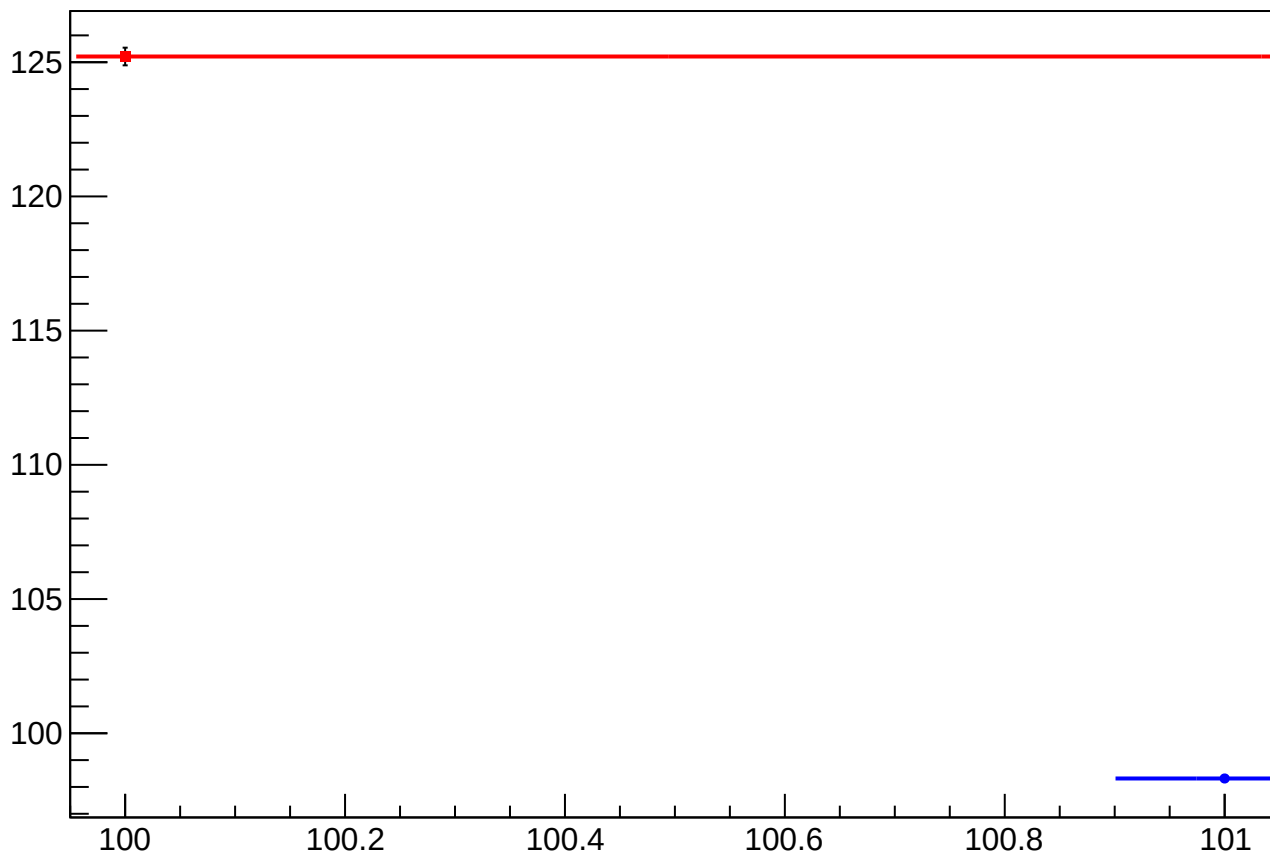
Right: 0.136 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 3.6/1

In: 0.194 $\pm$ 0.122  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.136 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 3.6/1

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 98.315 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.213 $\pm$ 0.329  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

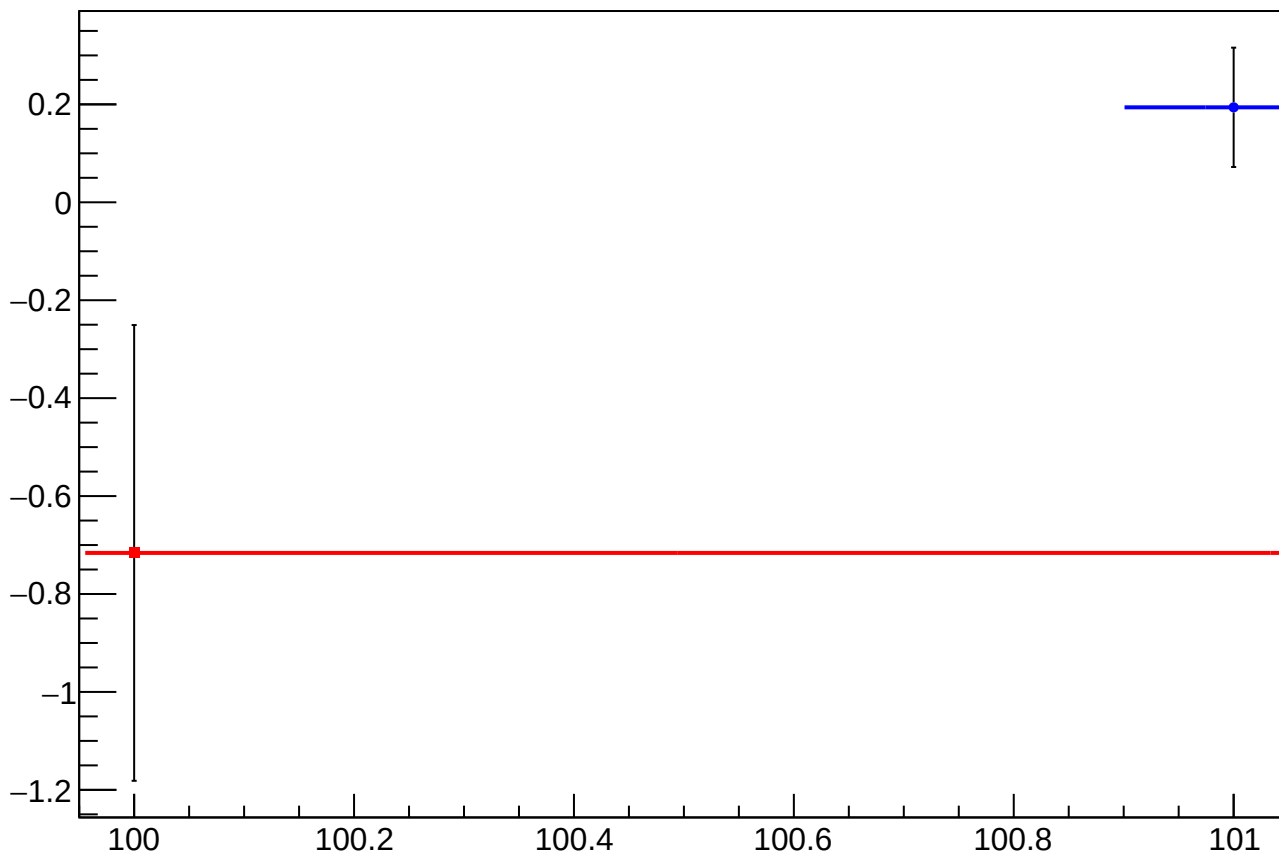
Right: 100.041 $\pm$ 0.083  $\chi^2$ /NDF: 6251.8/1

In: 98.315 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.041 $\pm$ 0.083  $\chi^2$ /NDF: 6251.8/1

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.194 $\pm$ 0.122  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.716 $\pm$ 0.465  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

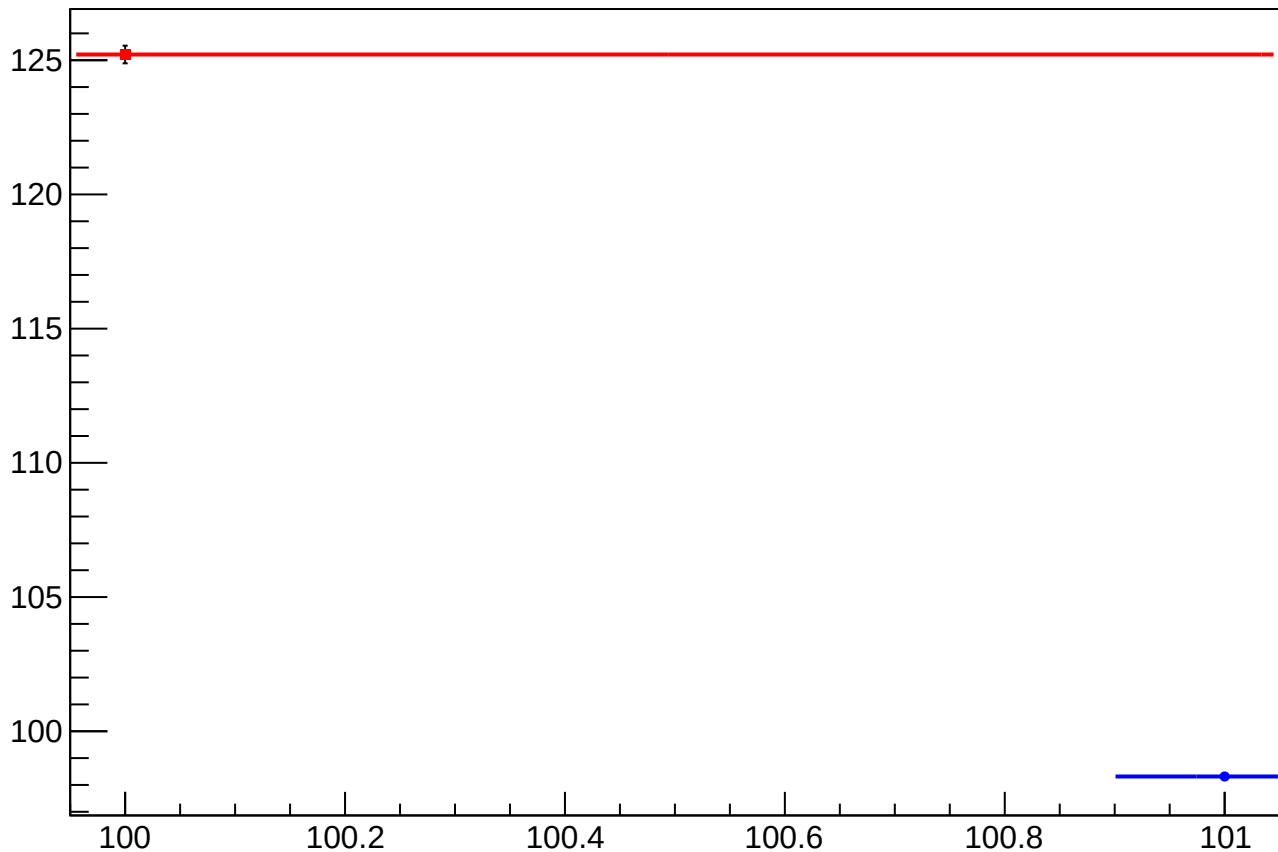
Right: 0.136 $\pm$ 0.118  $\chi^2$ /NDF: 3.6/1

In: 0.194 $\pm$ 0.122  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.136 $\pm$ 0.118  $\chi^2$ /NDF: 3.6/1

asym\_sam\_26\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 98.315 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 125.213 $\pm$ 0.329  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

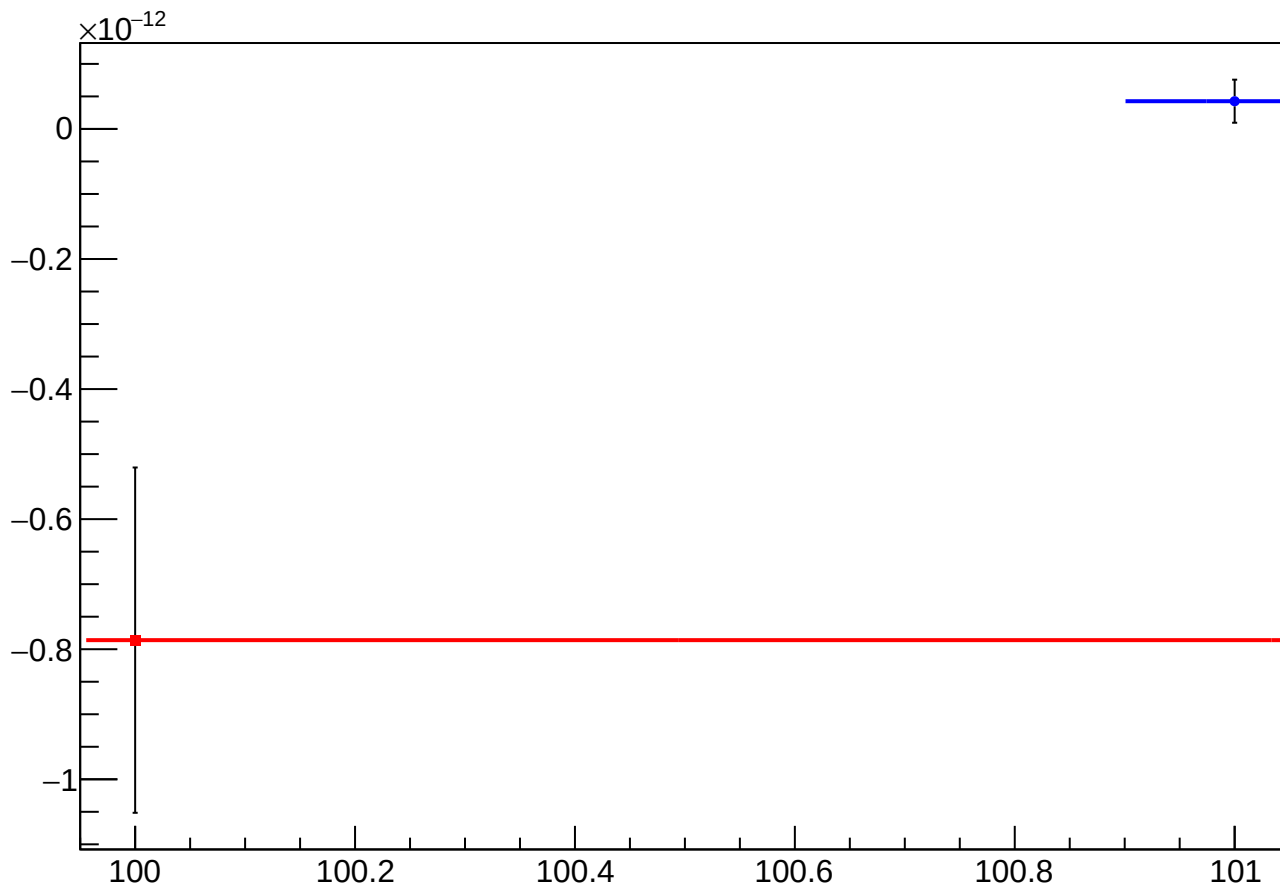
Right: 100.041 $\pm$ 0.083  $\chi^2$ /NDF: 6251.8/1

In: 98.315 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 100.041 $\pm$ 0.083  $\chi^2$ /NDF: 6251.8/1

asym\_sam\_26\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

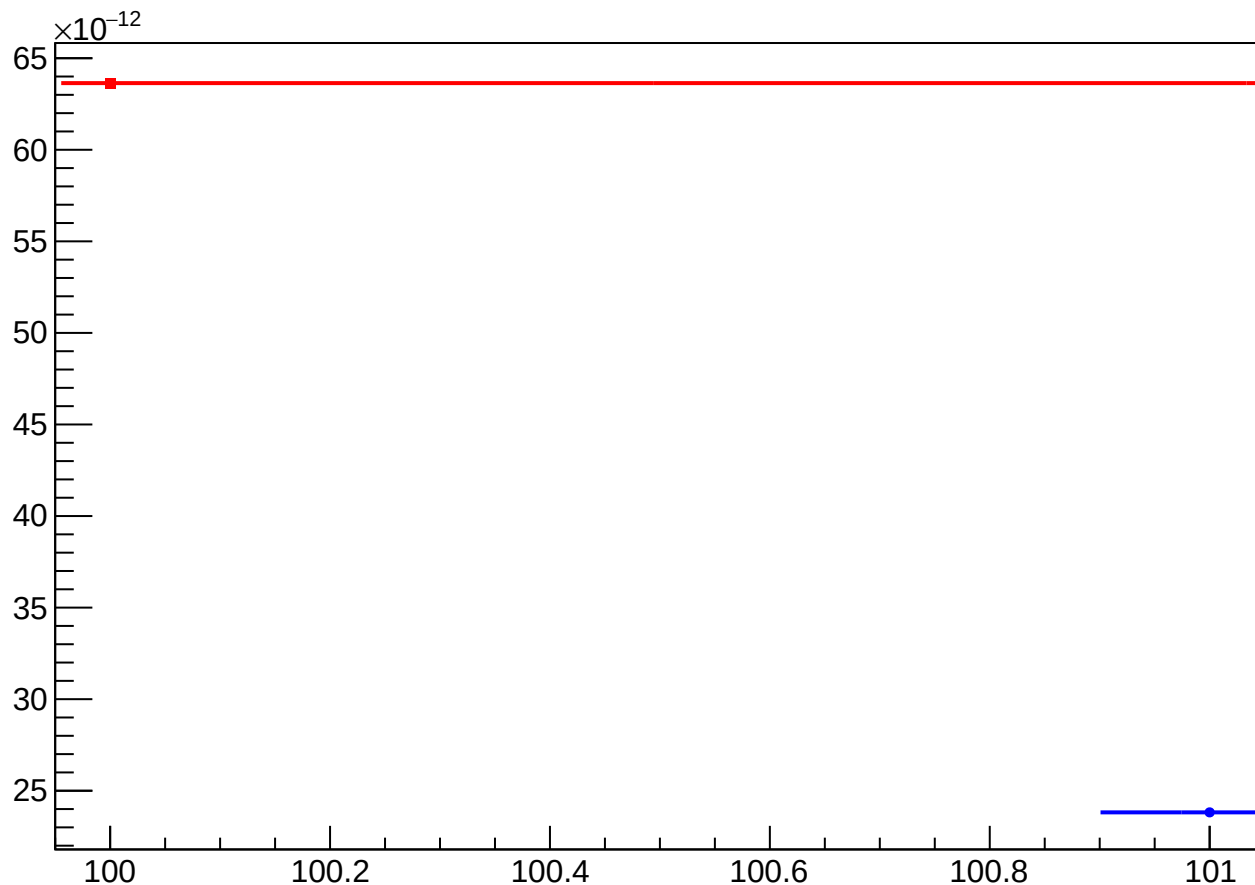
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.6/1

asym\_sam\_26\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

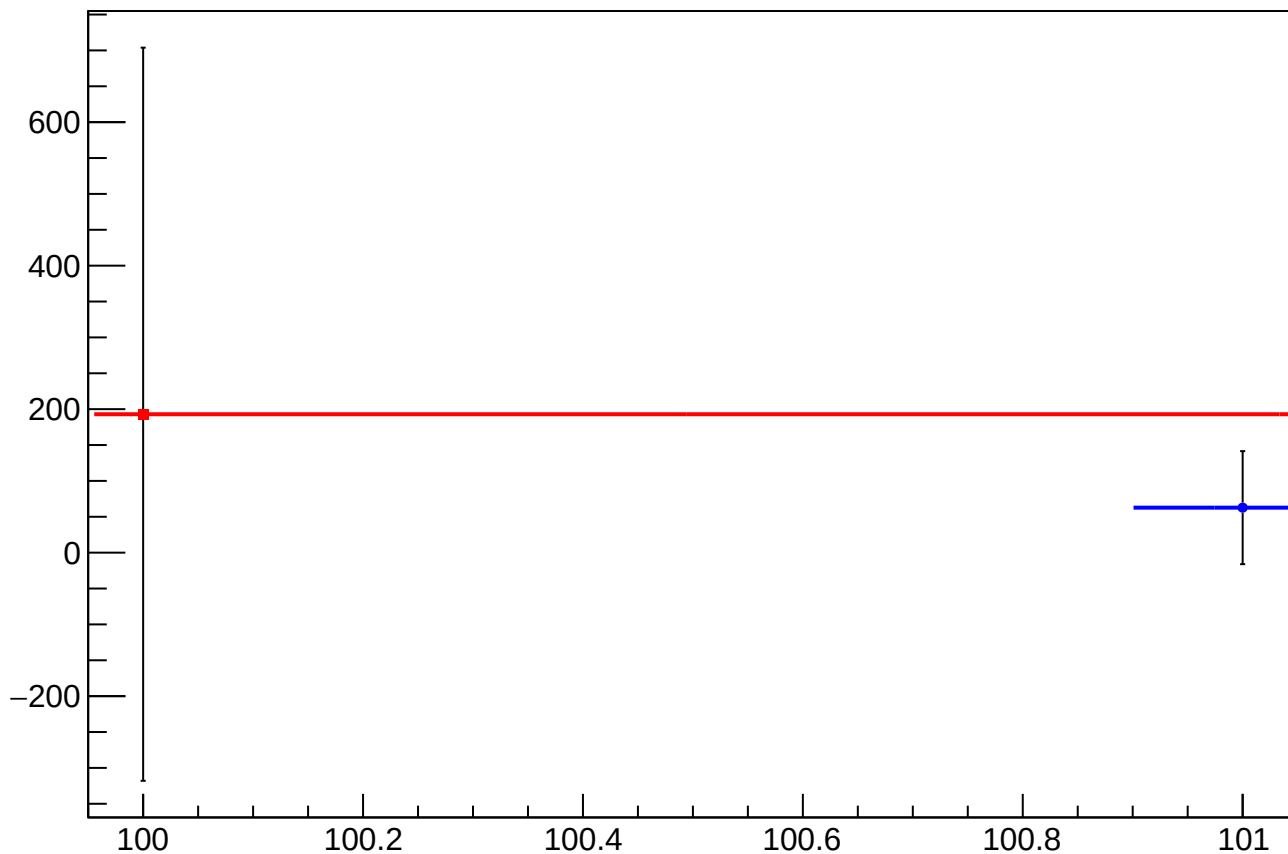
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 44310.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 44310.9/1

reg\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In: 62.711+/-78.770  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 192.918+/-510.898  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

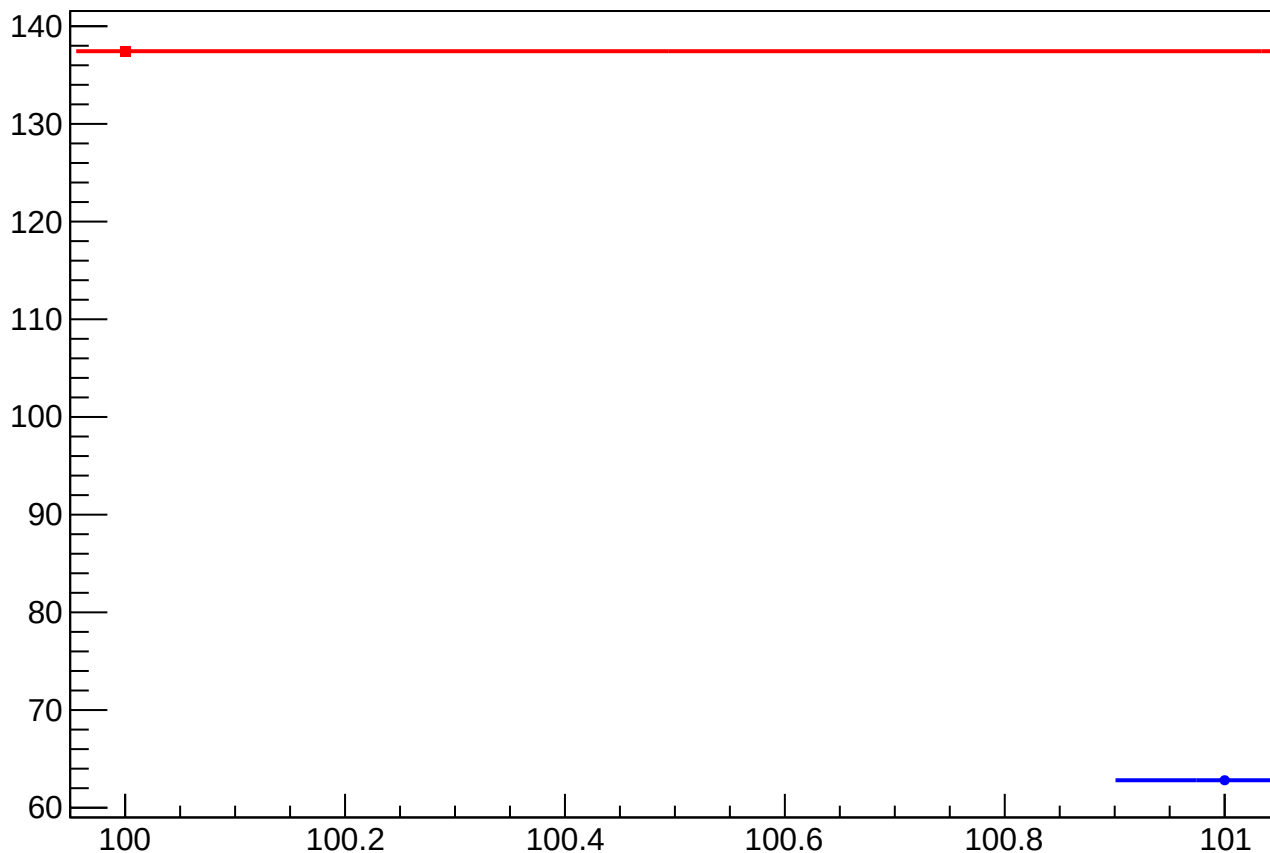
Right: 65.734+/-77.850  $\chi^2/\text{NDF}$ : 0.1/1

In: 62.711+/-78.770  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.734+/-77.850  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 62.813+/-0.056  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 137.442+/-0.361  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 64.546+/-0.055  $\chi^2/\text{NDF}$ : 41683.5/1

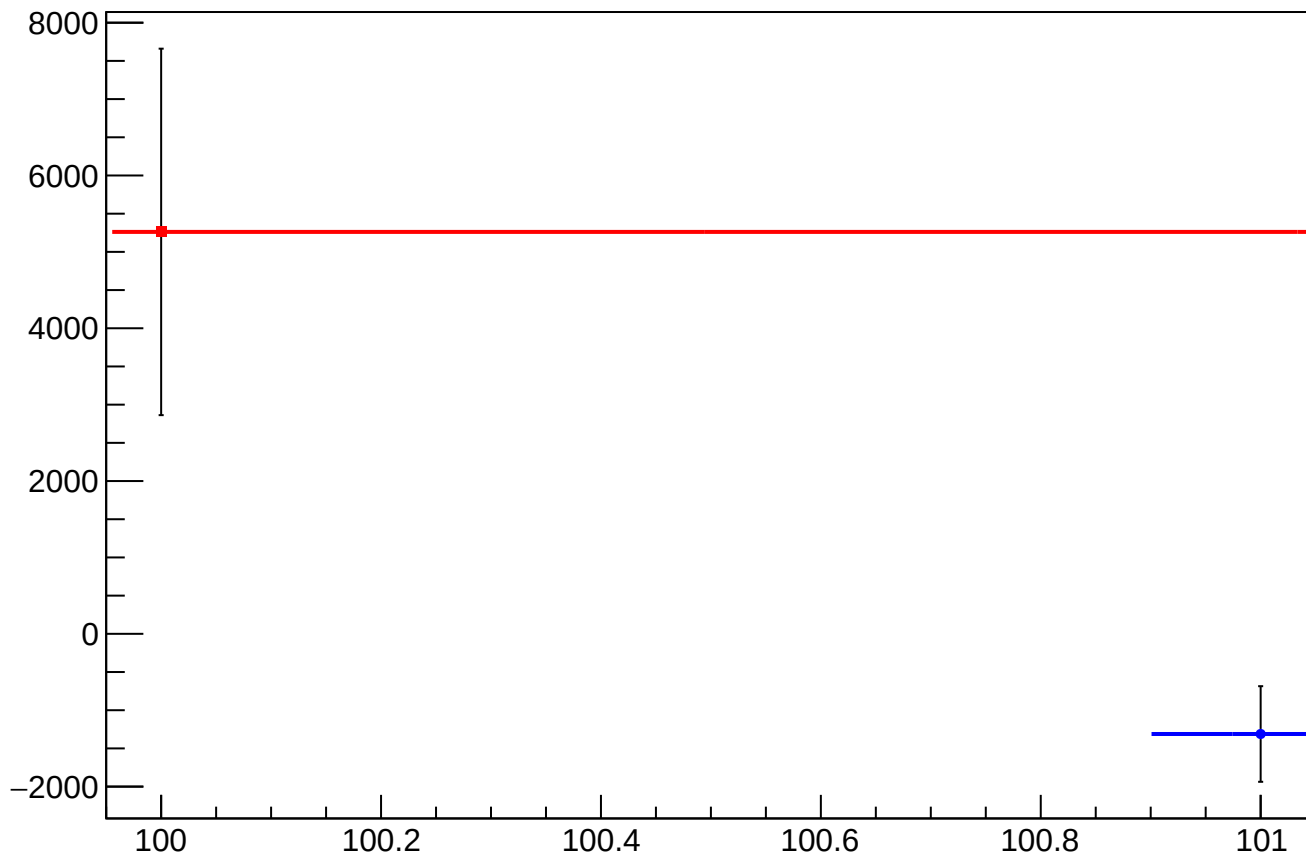
In: 62.813+/-0.056  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.546+/-0.055  $\chi^2/\text{NDF}$ : 41683.5/1



asym\_sam\_1548\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1311.293+/-625.806  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5261.421+/-2398.658  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

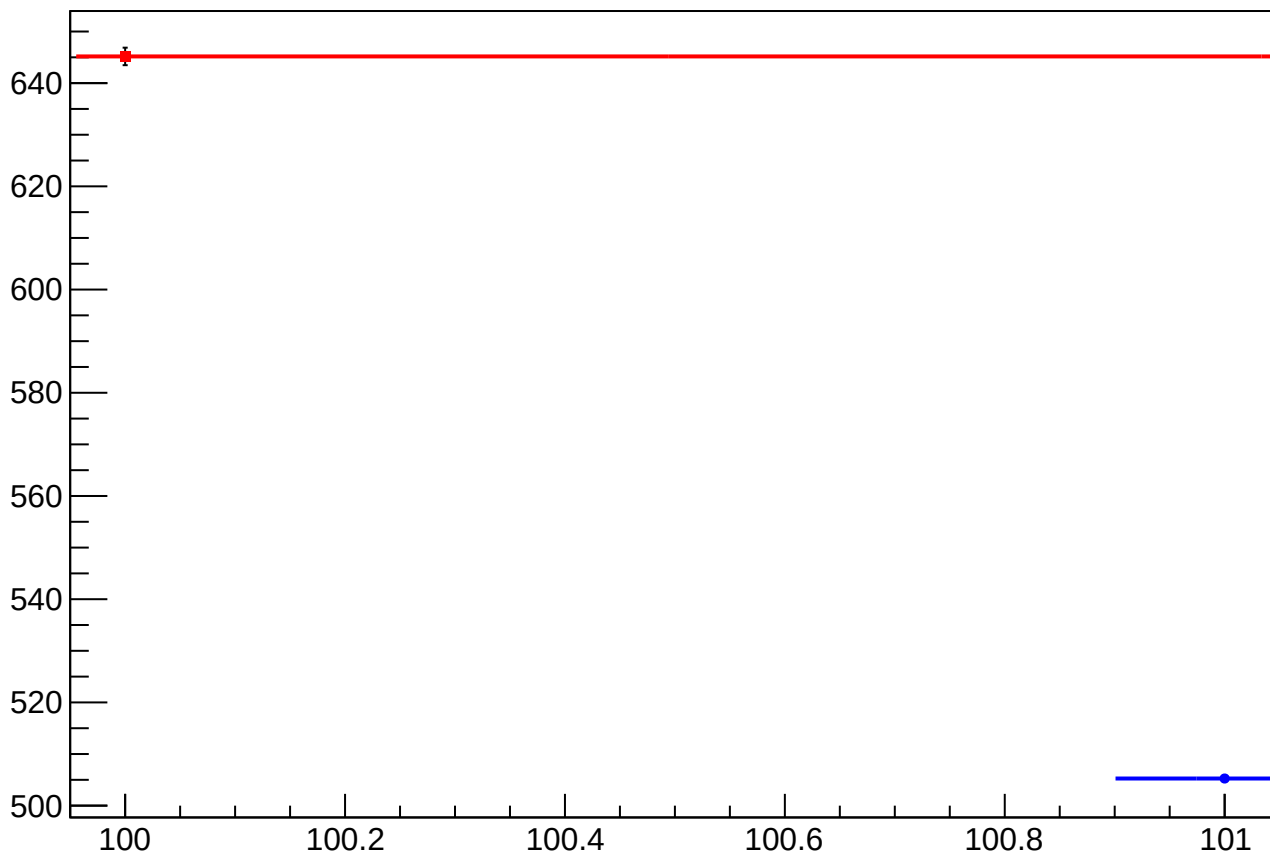
Right: -892.414+/-605.537  $\chi^2/\text{NDF}$ : 7.0/1

In: -1311.293+/-625.806  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -892.414+/-605.537  $\chi^2/\text{NDF}$ : 7.0/1

asym\_sam\_1548\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 505.254+/-0.443  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 645.174+/-1.696  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

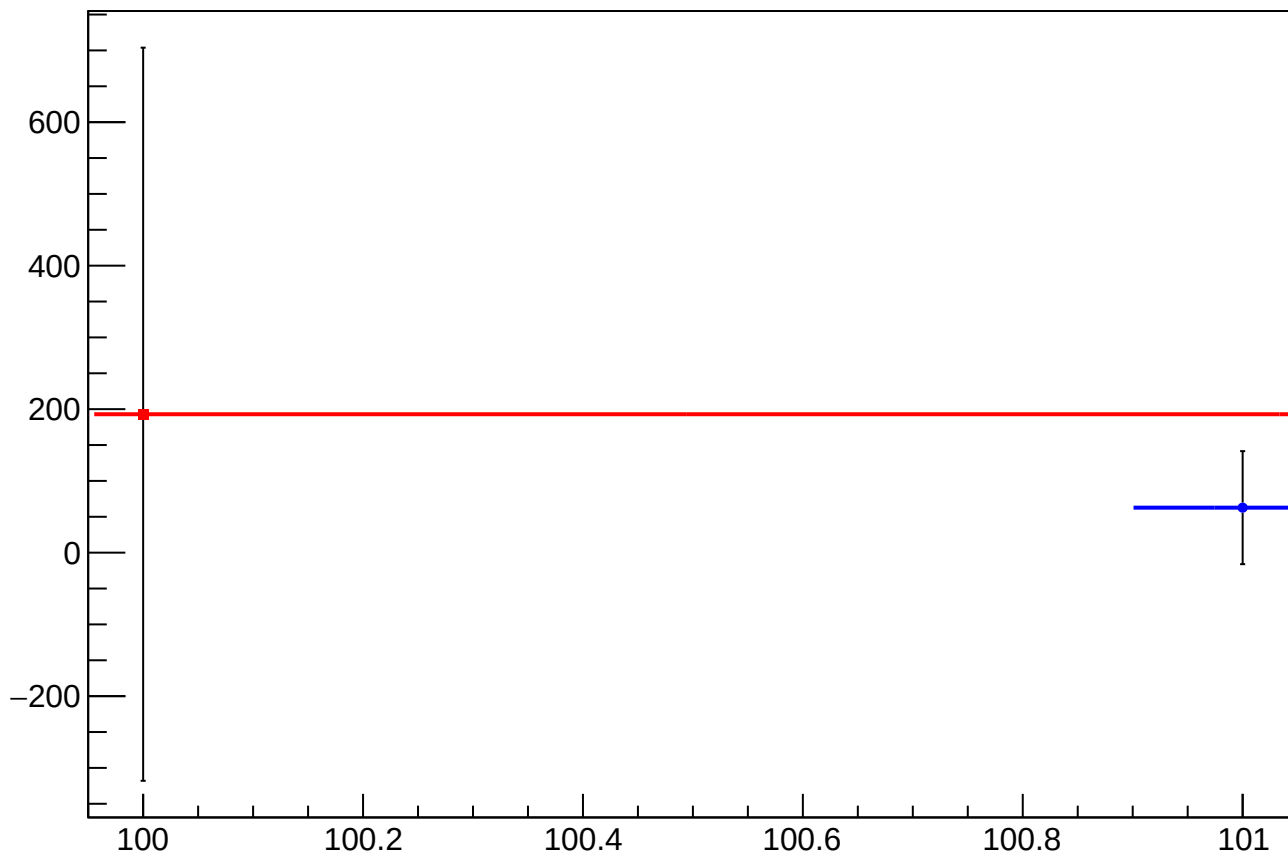
Right: 514.171+/-0.428  $\chi^2/\text{NDF}$ : 6371.7/1

In: 505.254+/-0.443  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 514.171+/-0.428  $\chi^2/\text{NDF}$ : 6371.7/1

cor\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In: 62.708+/-78.770  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 192.923+/-510.898  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

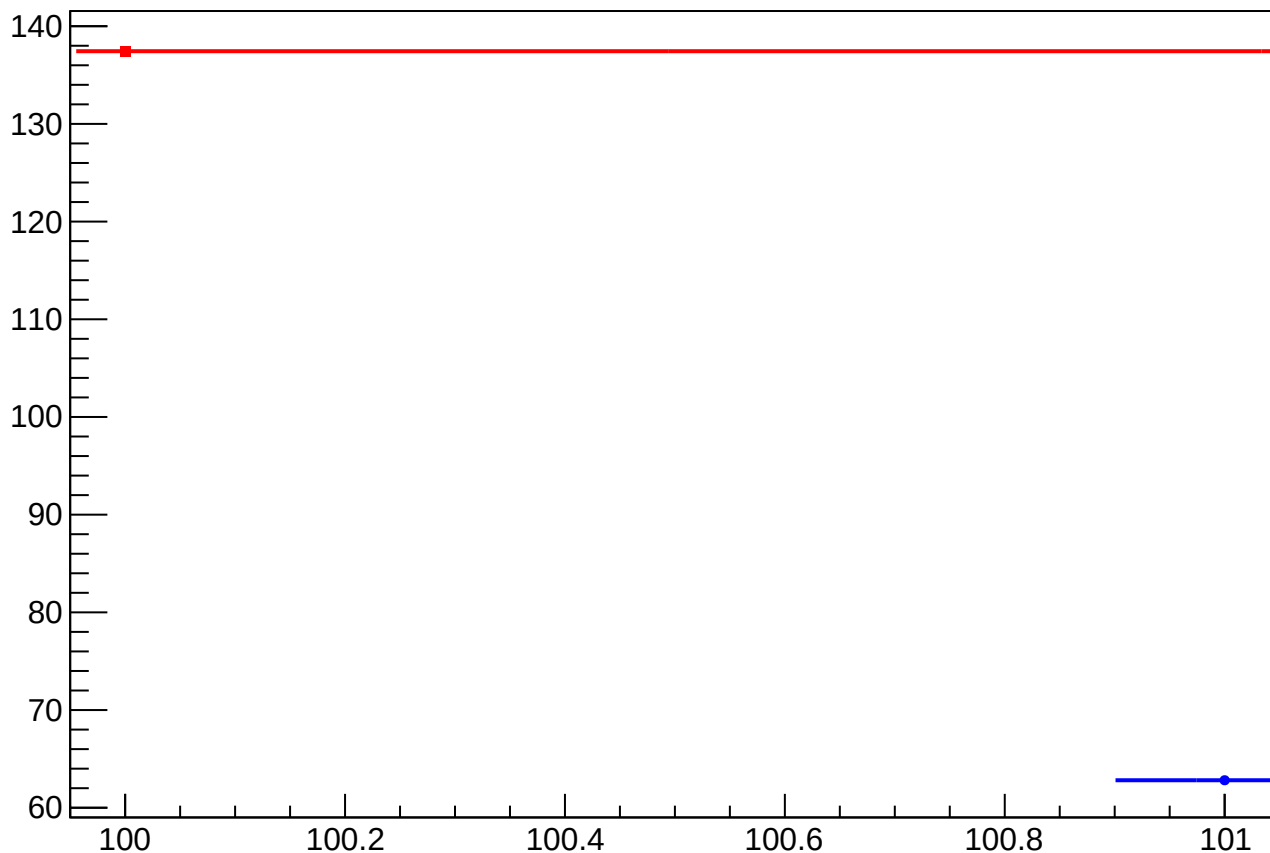
Right: 65.732+/-77.850  $\chi^2/\text{NDF}$ : 0.1/1

In: 62.708+/-78.770  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.732+/-77.850  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 62.813+/-0.056  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 137.442+/-0.361  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

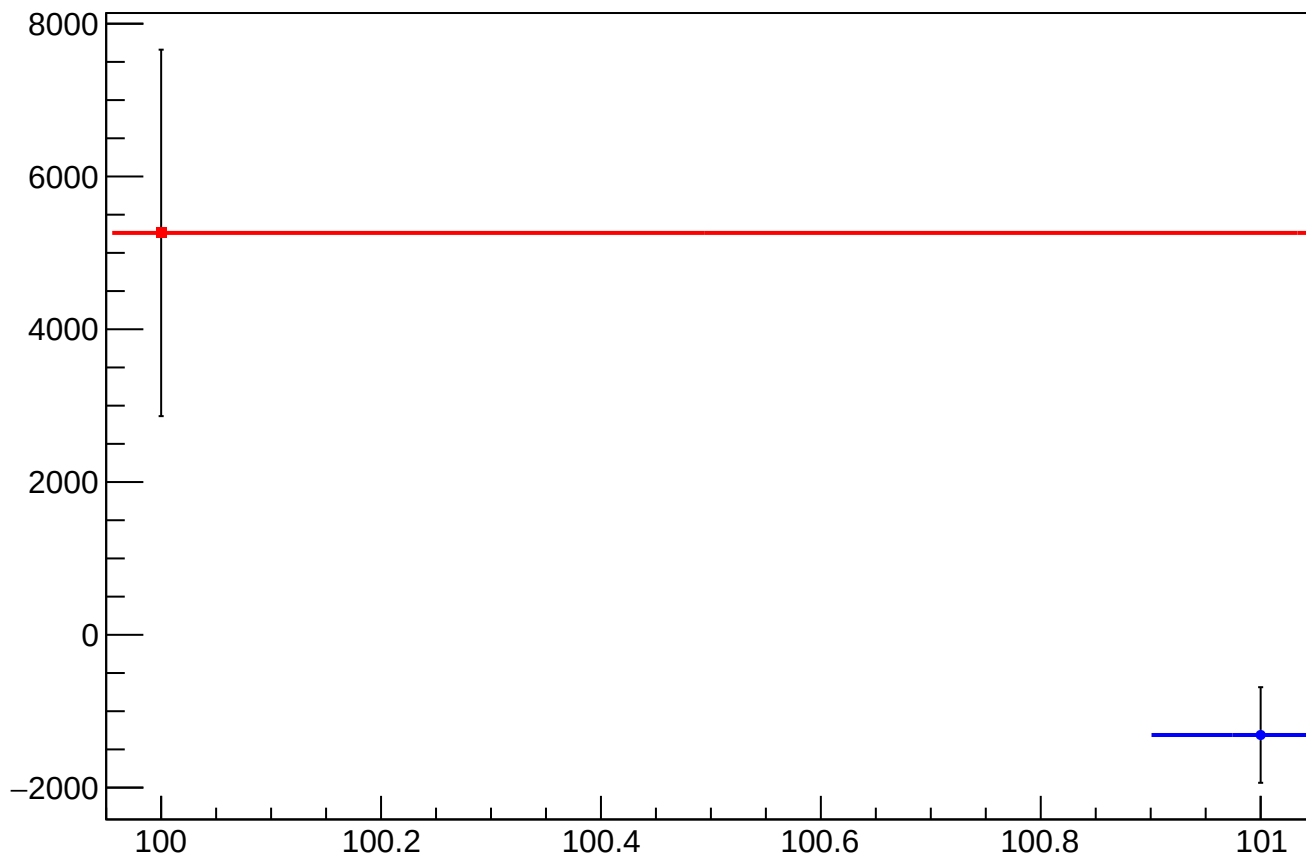
Right: 64.546+/-0.055  $\chi^2/\text{NDF}$ : 41683.5/1

In: 62.813+/-0.056  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.546+/-0.055  $\chi^2/\text{NDF}$ : 41683.5/1

asym\_sam\_1548\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1311.292 $\pm$ 625.807  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5261.426 $\pm$ 2398.659  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

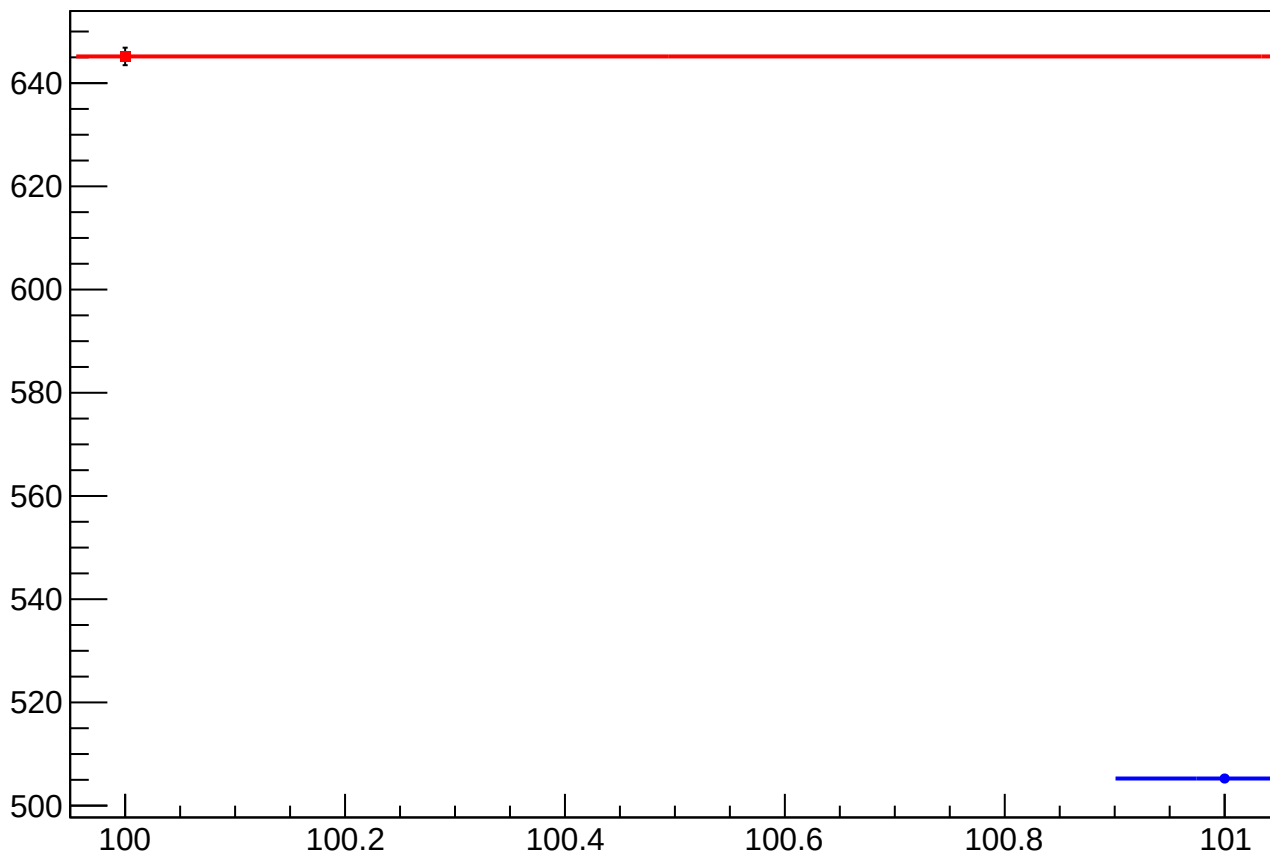
Right: -892.412 $\pm$ 605.537  $\chi^2$ /NDF: 7.0/1

In: -1311.292 $\pm$ 625.807  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -892.412 $\pm$ 605.537  $\chi^2$ /NDF: 7.0/1

asym\_sam\_1548\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 505.254 $\pm$ 0.443  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 645.175 $\pm$ 1.696  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

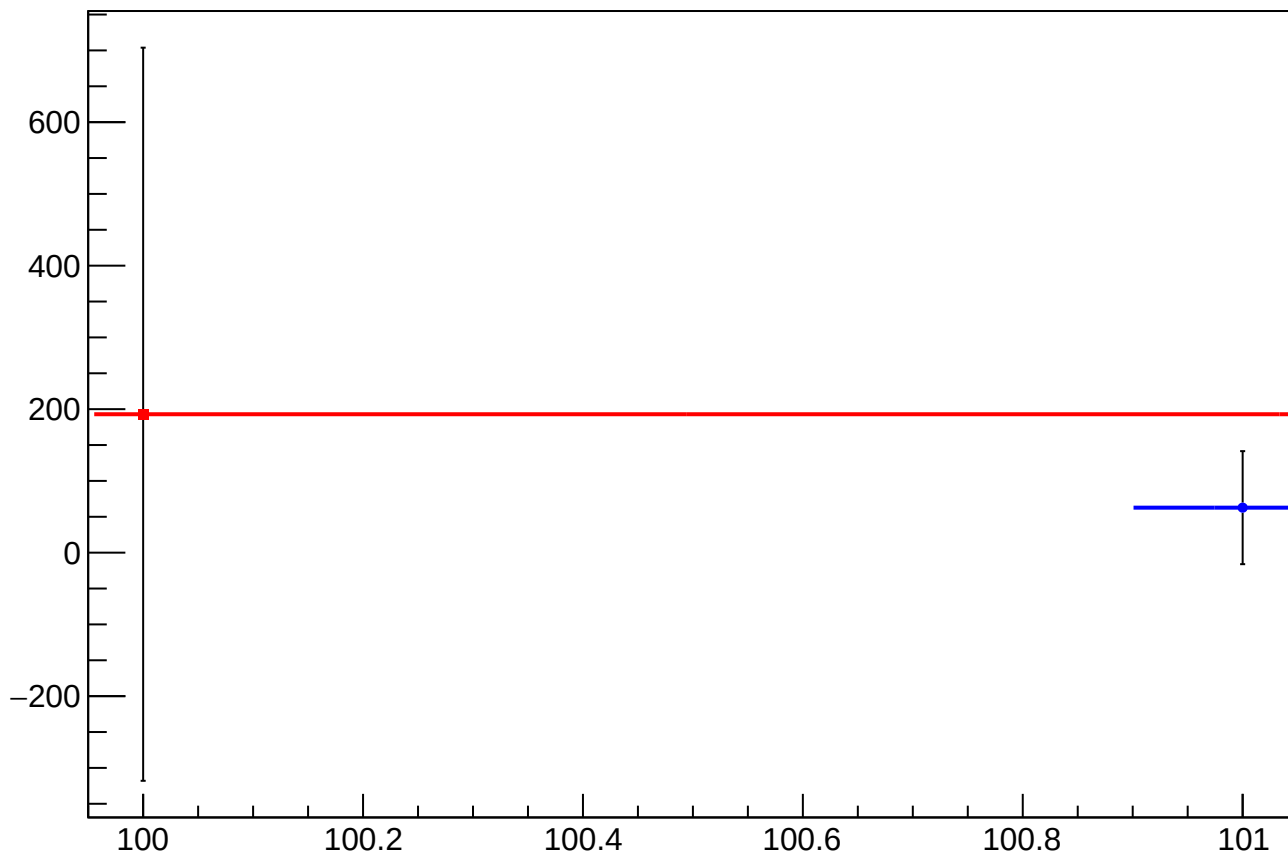
Right: 514.172 $\pm$ 0.428  $\chi^2$ /NDF: 6371.7/1

In: 505.254 $\pm$ 0.443  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 514.172 $\pm$ 0.428  $\chi^2$ /NDF: 6371.7/1

eigen\_cor\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In: 62.708+/-78.770  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 192.923+/-510.898  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

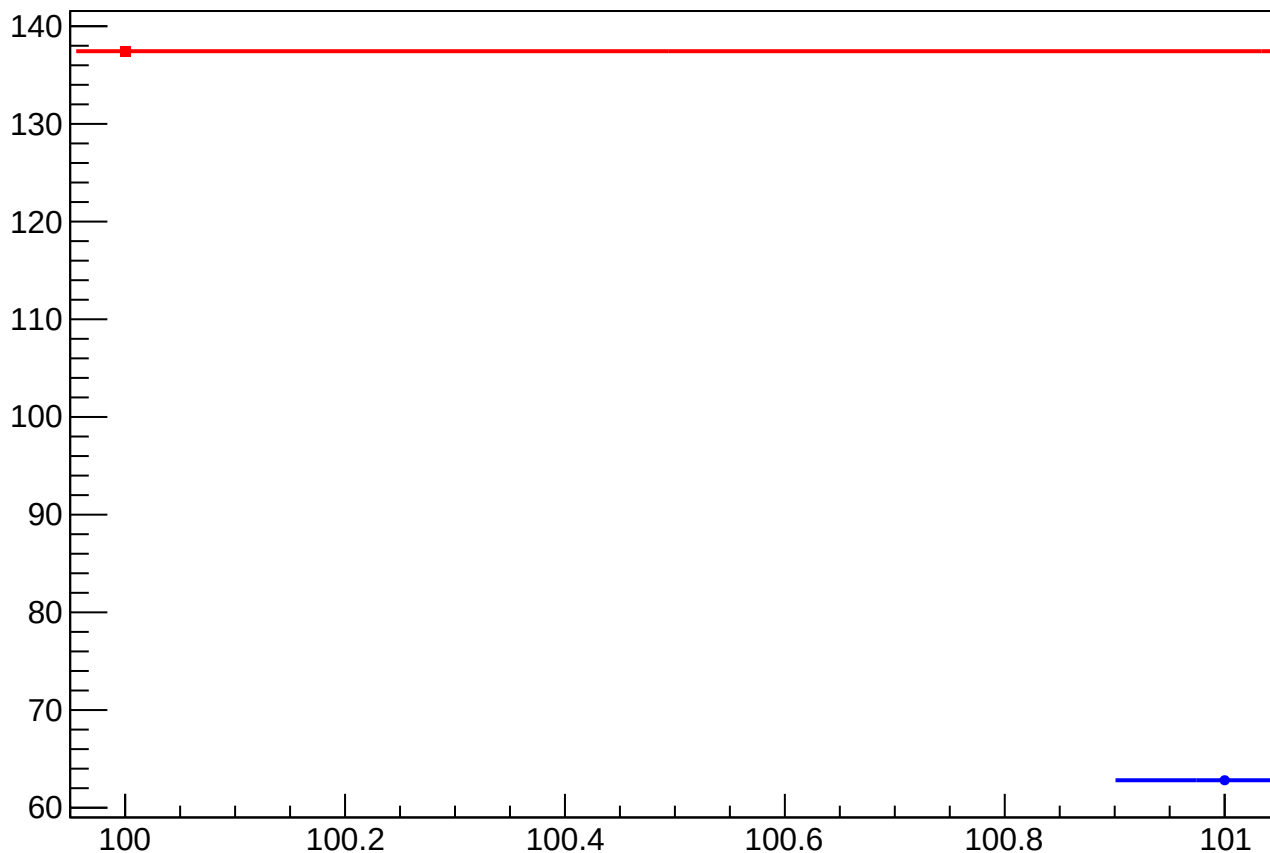
Right: 65.732+/-77.850  $\chi^2/\text{NDF}$ : 0.1/1

In: 62.708+/-78.770  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.732+/-77.850  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 62.813+/-0.056  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 137.442+/-0.361  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 64.546+/-0.055  $\chi^2/\text{NDF}$ : 41683.5/1

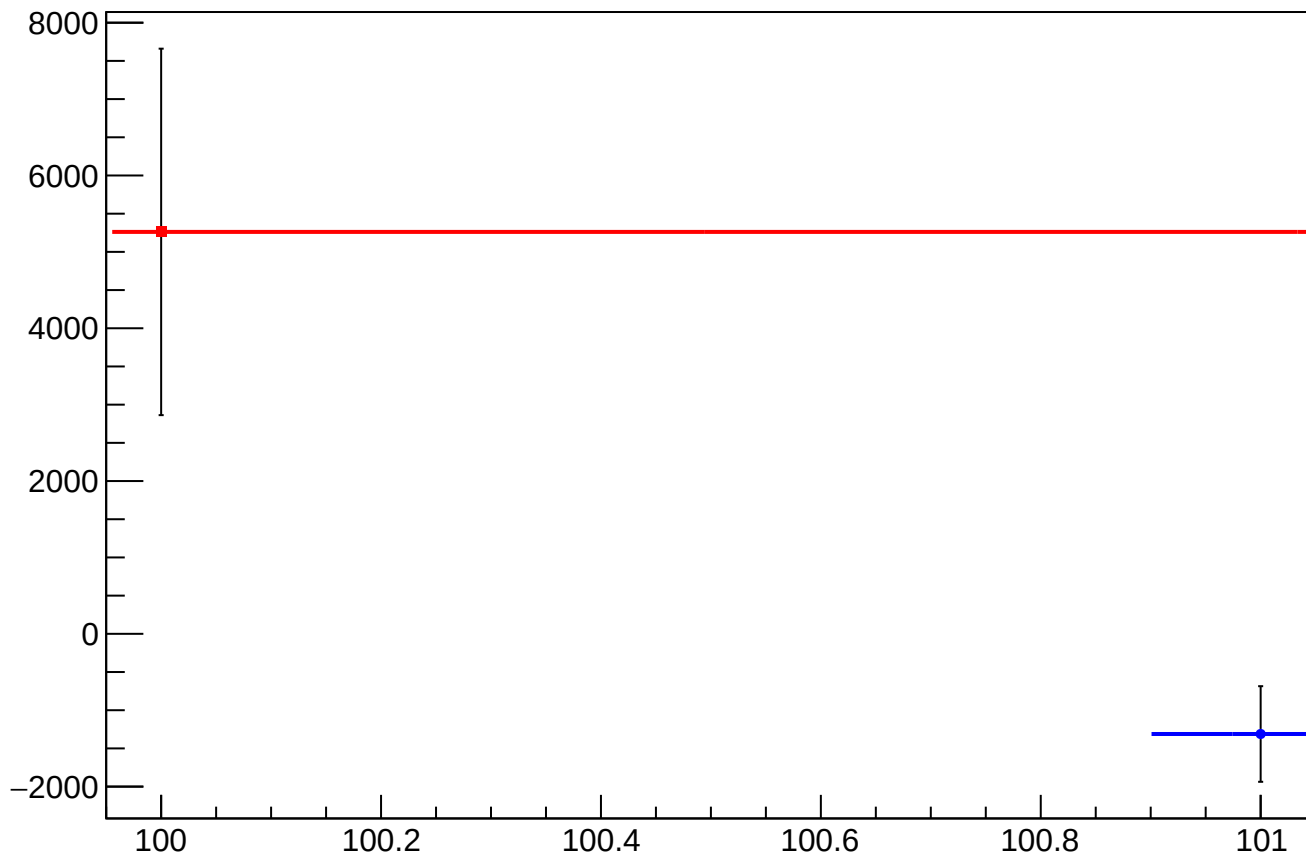
In: 62.813+/-0.056  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 64.546+/-0.055  $\chi^2/\text{NDF}$ : 41683.5/1



asym\_sam\_1548\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1311.292+/-625.807  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5261.426+/-2398.659  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

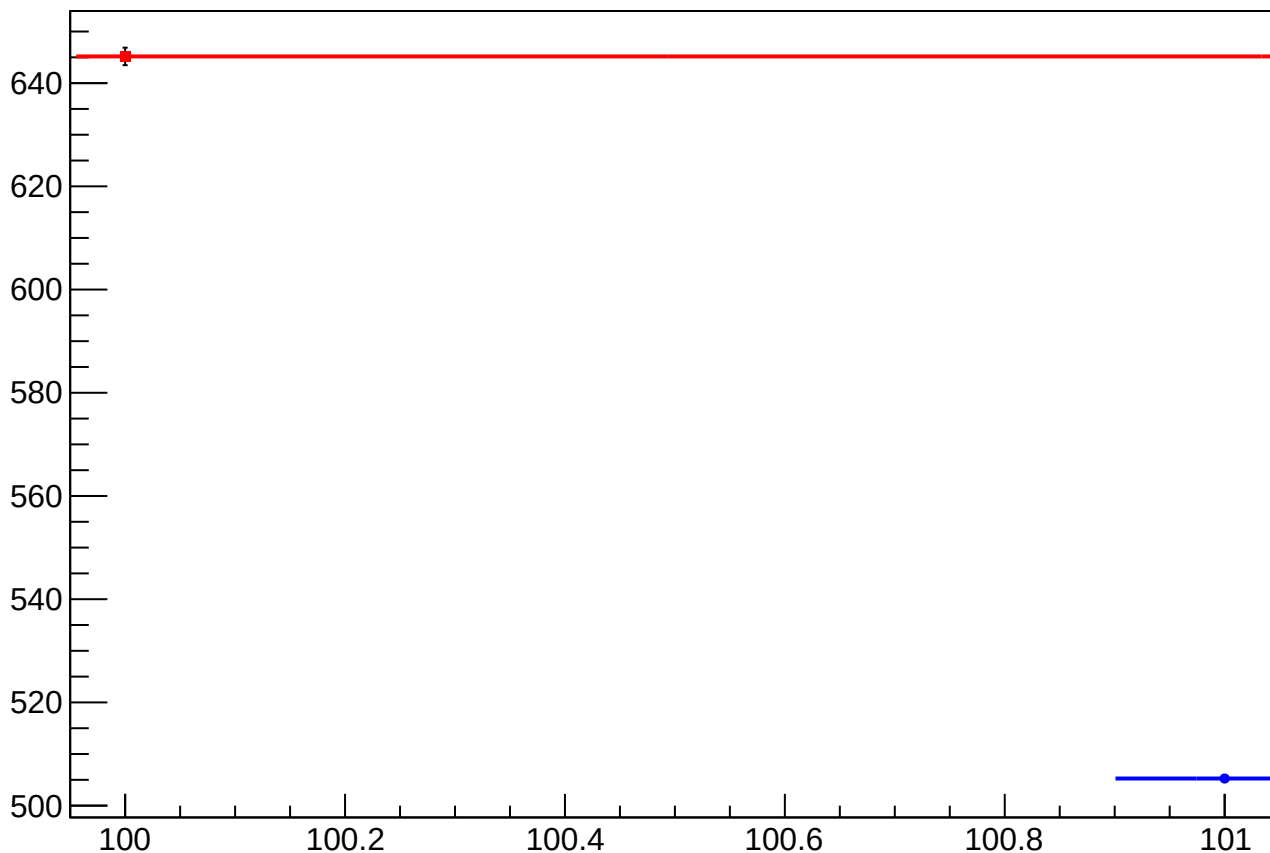
Right: -892.412+/-605.537  $\chi^2/\text{NDF}$ : 7.0/1

In: -1311.292+/-625.807  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -892.412+/-605.537  $\chi^2/\text{NDF}$ : 7.0/1

asym\_sam\_1548\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 505.254+/-0.443  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 645.175+/-1.696  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

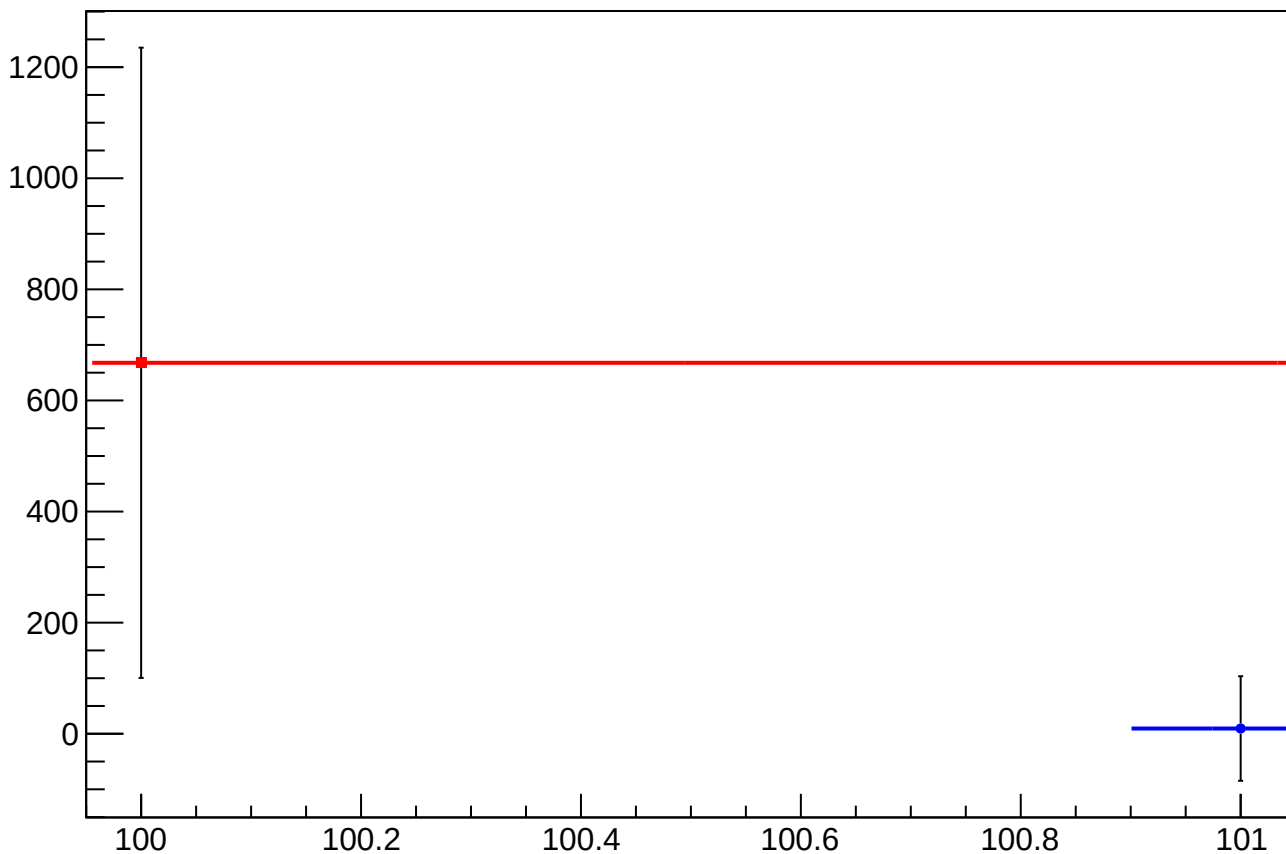
Right: 514.172+/-0.428  $\chi^2/\text{NDF}$ : 6371.7/1

In: 505.254+/-0.443  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 514.172+/-0.428  $\chi^2/\text{NDF}$ : 6371.7/1

dit\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In: 9.420+/-94.116  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 667.783+/-567.306  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

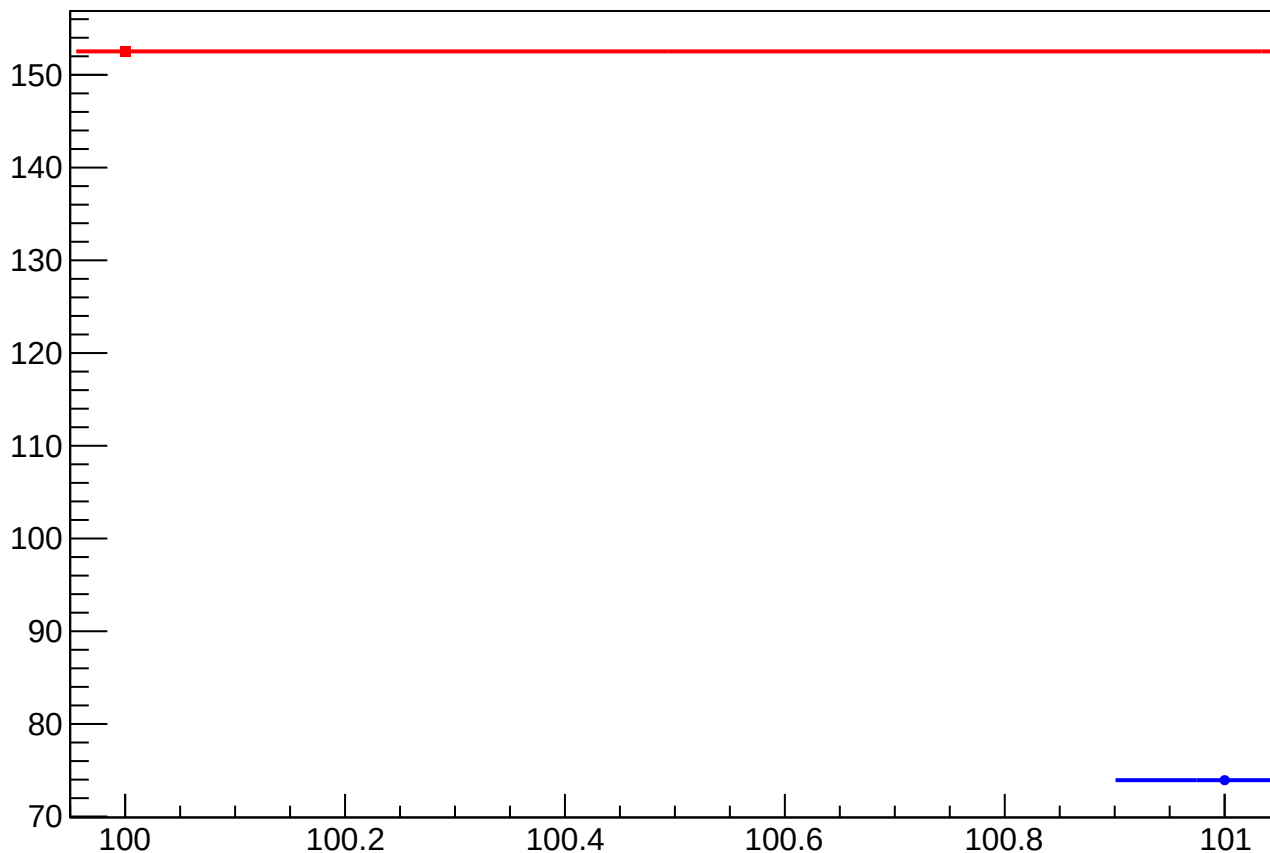
Right: 27.055+/-92.847  $\chi^2/\text{NDF}$ : 1.3/1

In: 9.420+/-94.116  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.055+/-92.847  $\chi^2/\text{NDF}$ : 1.3/1

dit\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 73.939+/-0.067  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 152.529+/-0.401  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

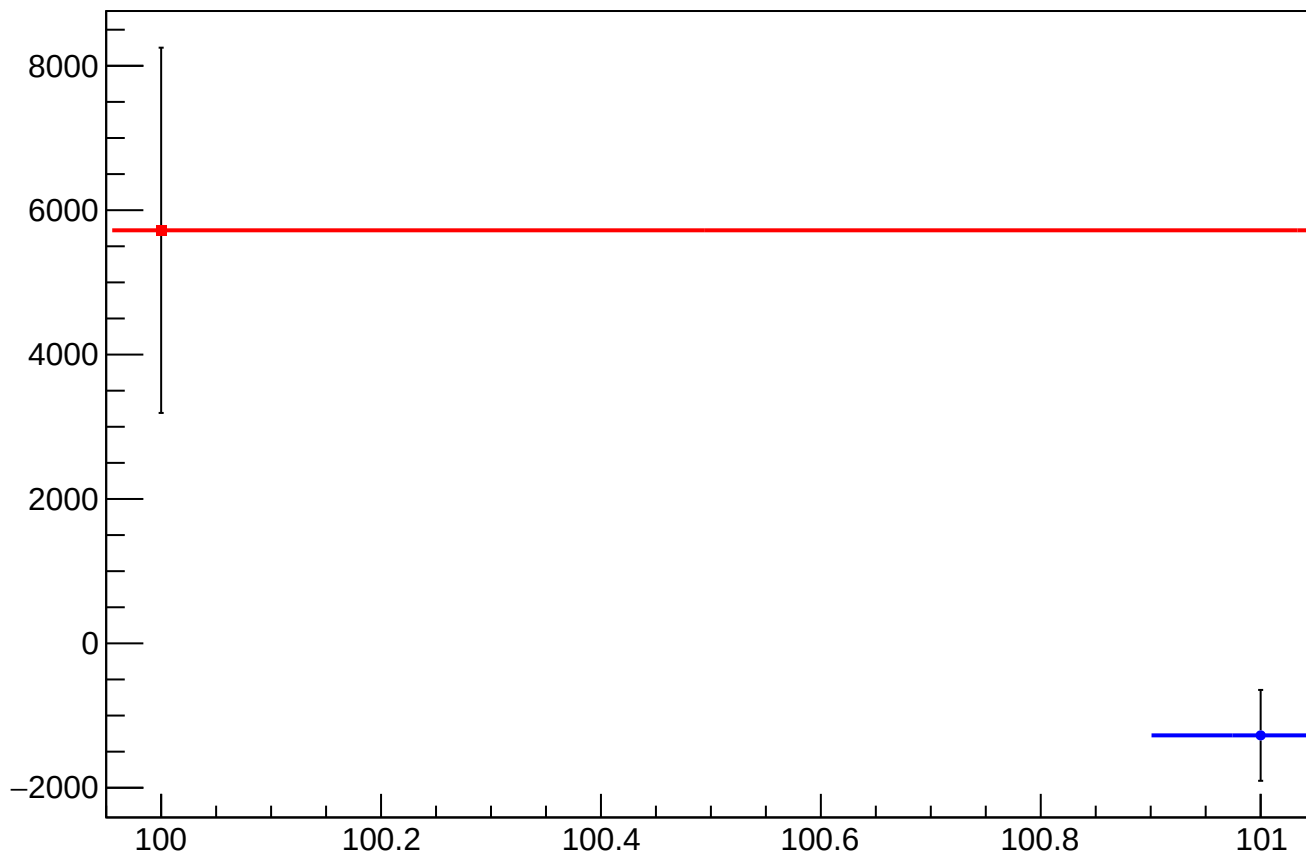
Right: 76.044+/-0.066  $\chi^2/\text{NDF}$ : 37353.8/1

In: 73.939+/-0.067  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 76.044+/-0.066  $\chi^2/\text{NDF}$ : 37353.8/1

asym\_sam\_1548\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1274.383+/-629.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5721.343+/-2529.757  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

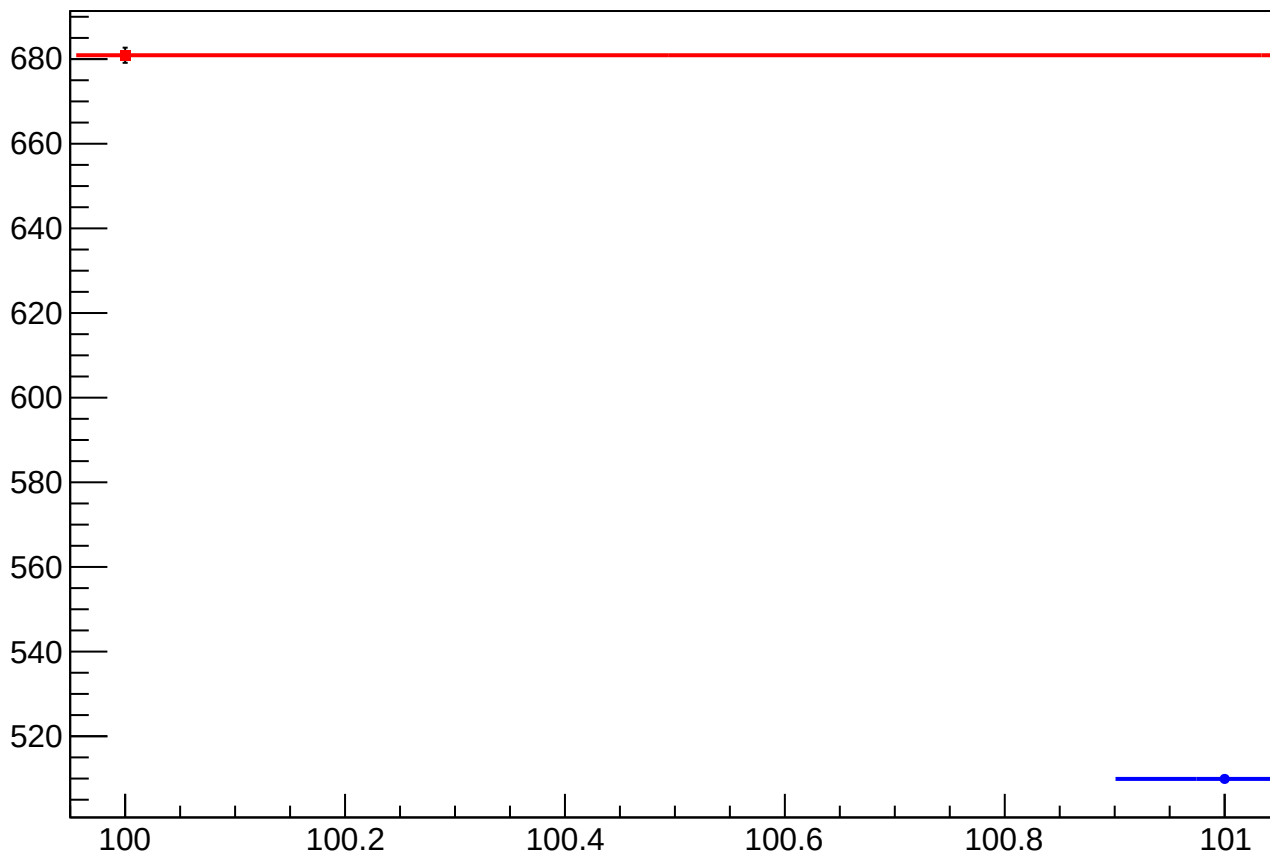
Right: -866.722+/-610.678  $\chi^2/\text{NDF}$ : 7.2/1

In: -1274.383+/-629.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -866.722+/-610.678  $\chi^2/\text{NDF}$ : 7.2/1

asym\_sam\_1548\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 509.915 $\pm$ 0.445  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 680.910 $\pm$ 1.789  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

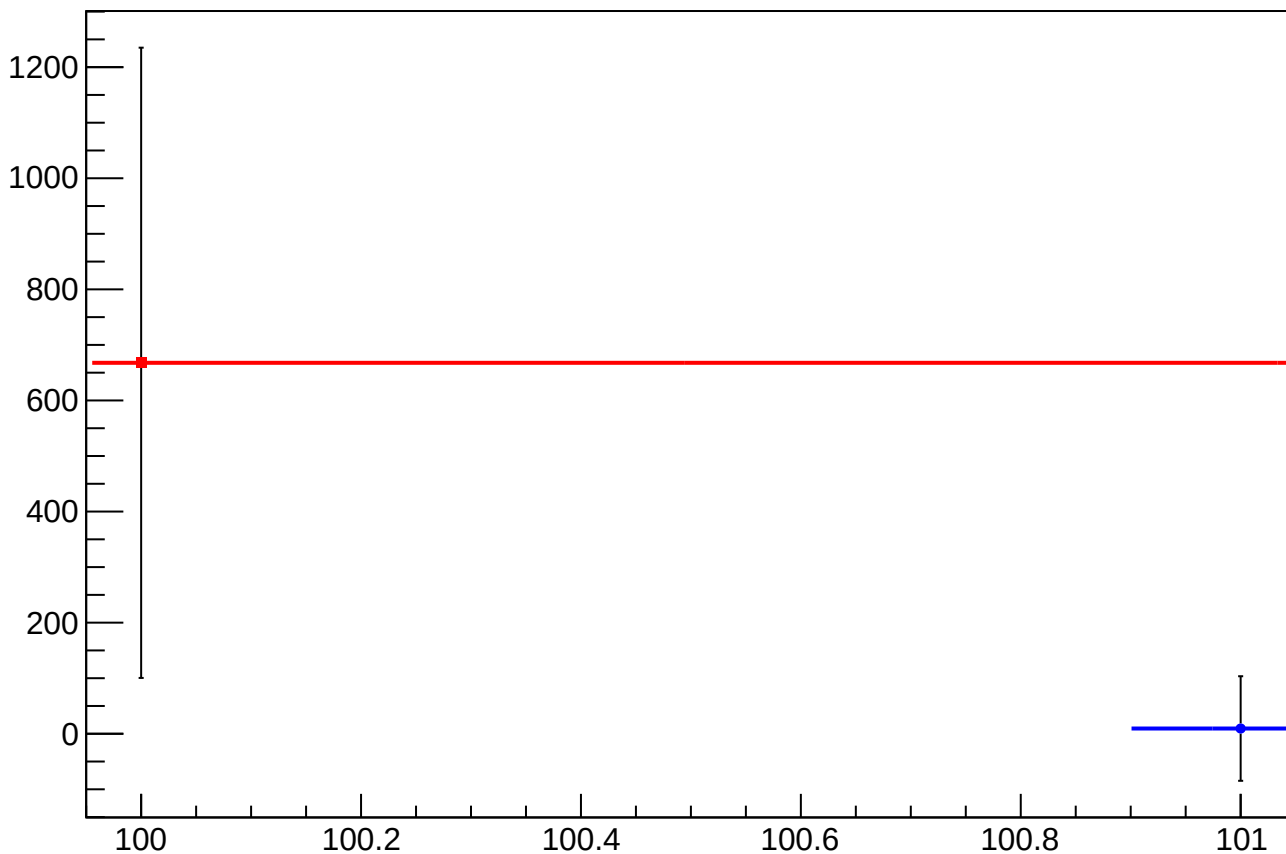
Right: 519.880 $\pm$ 0.432  $\chi^2$ /NDF: 8605.2/1

In: 509.915 $\pm$ 0.445  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 519.880 $\pm$ 0.432  $\chi^2$ /NDF: 8605.2/1

eigen\_dit\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In: 9.422+/-94.117  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 667.777+/-567.306  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

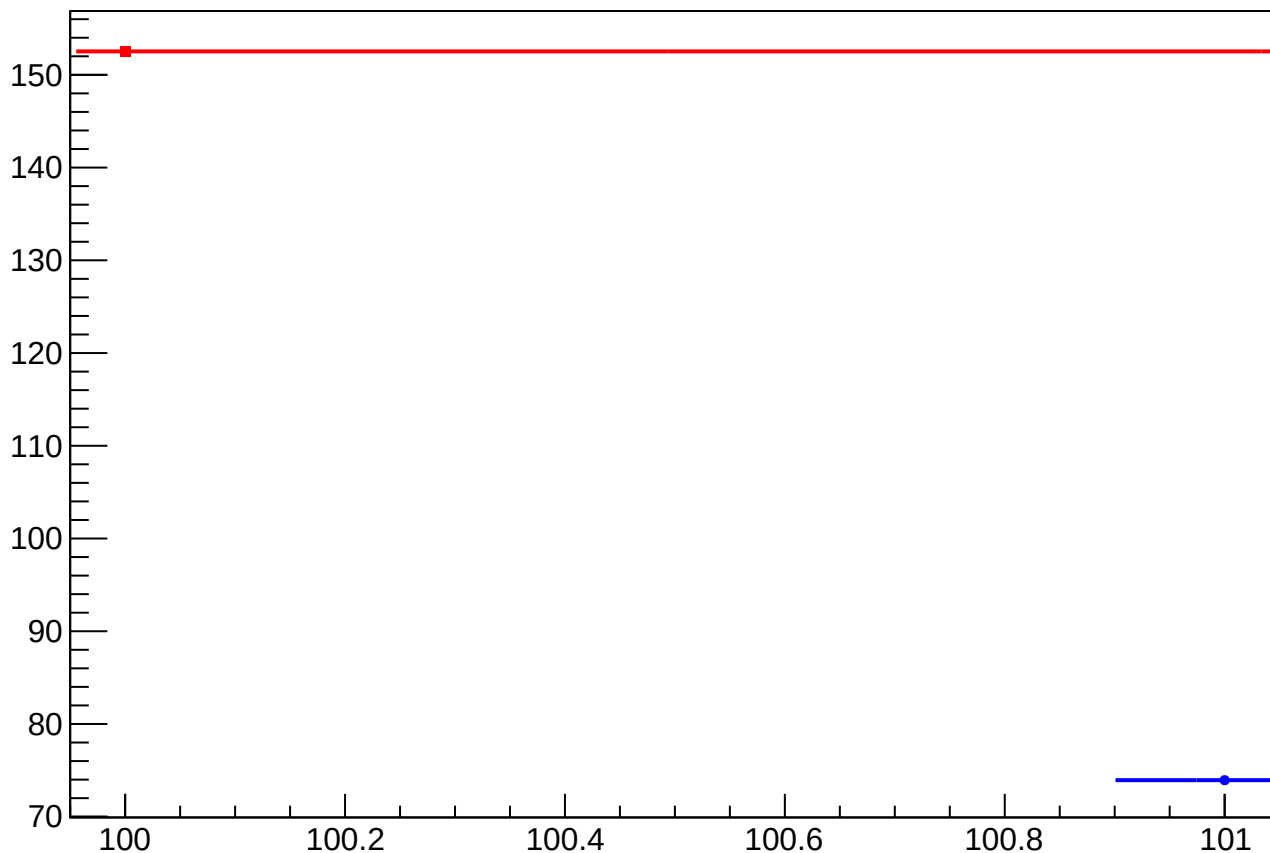
Right: 27.057+/-92.847  $\chi^2/\text{NDF}$ : 1.3/1

In: 9.422+/-94.117  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.057+/-92.847  $\chi^2/\text{NDF}$ : 1.3/1

eigen\_dit\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 73.939 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.529 $\pm$ 0.401  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 76.045 $\pm$ 0.066  $\chi^2$ /NDF: 37353.5/1

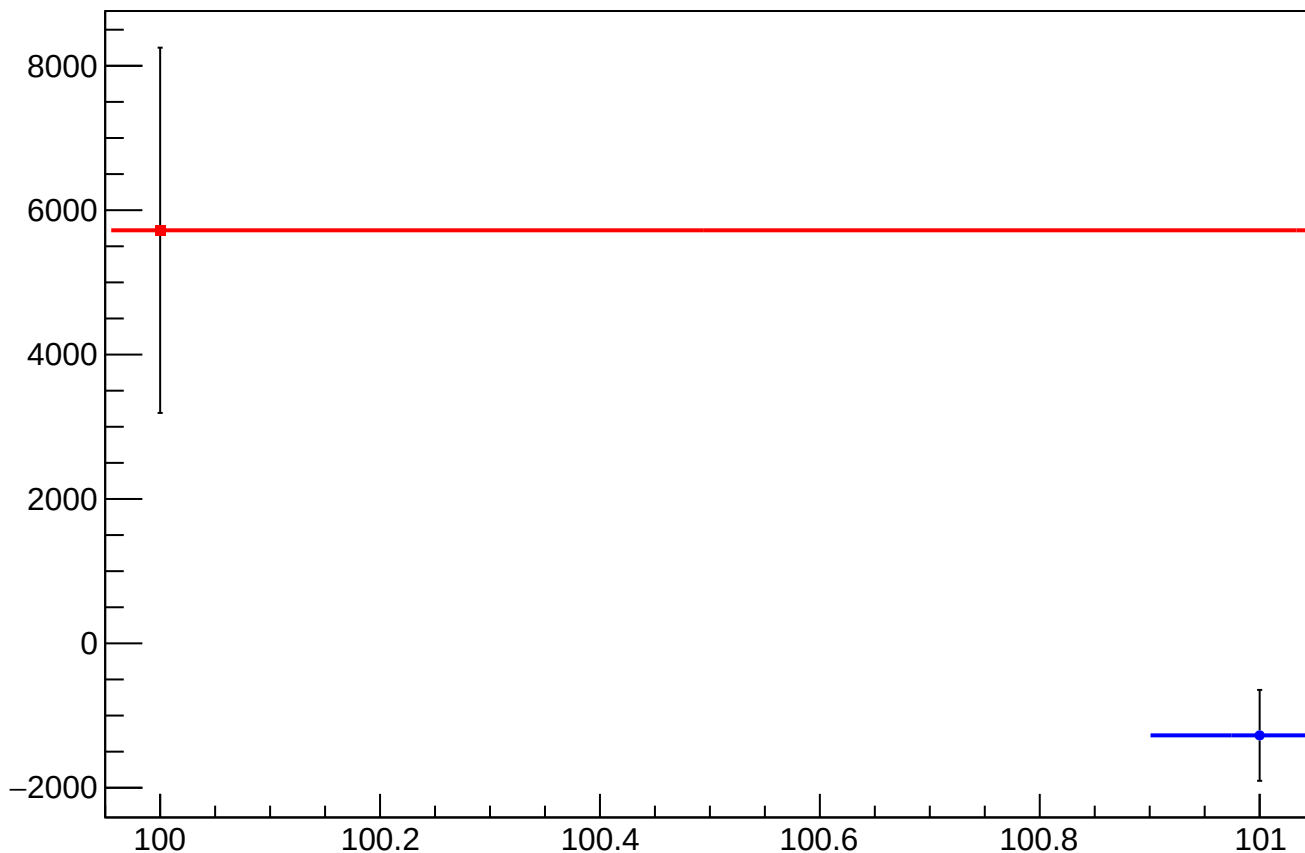
In: 73.939 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 76.045 $\pm$ 0.066  $\chi^2$ /NDF: 37353.5/1



asym\_sam\_1548\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1274.383+/-629.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5721.336+/-2529.754  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

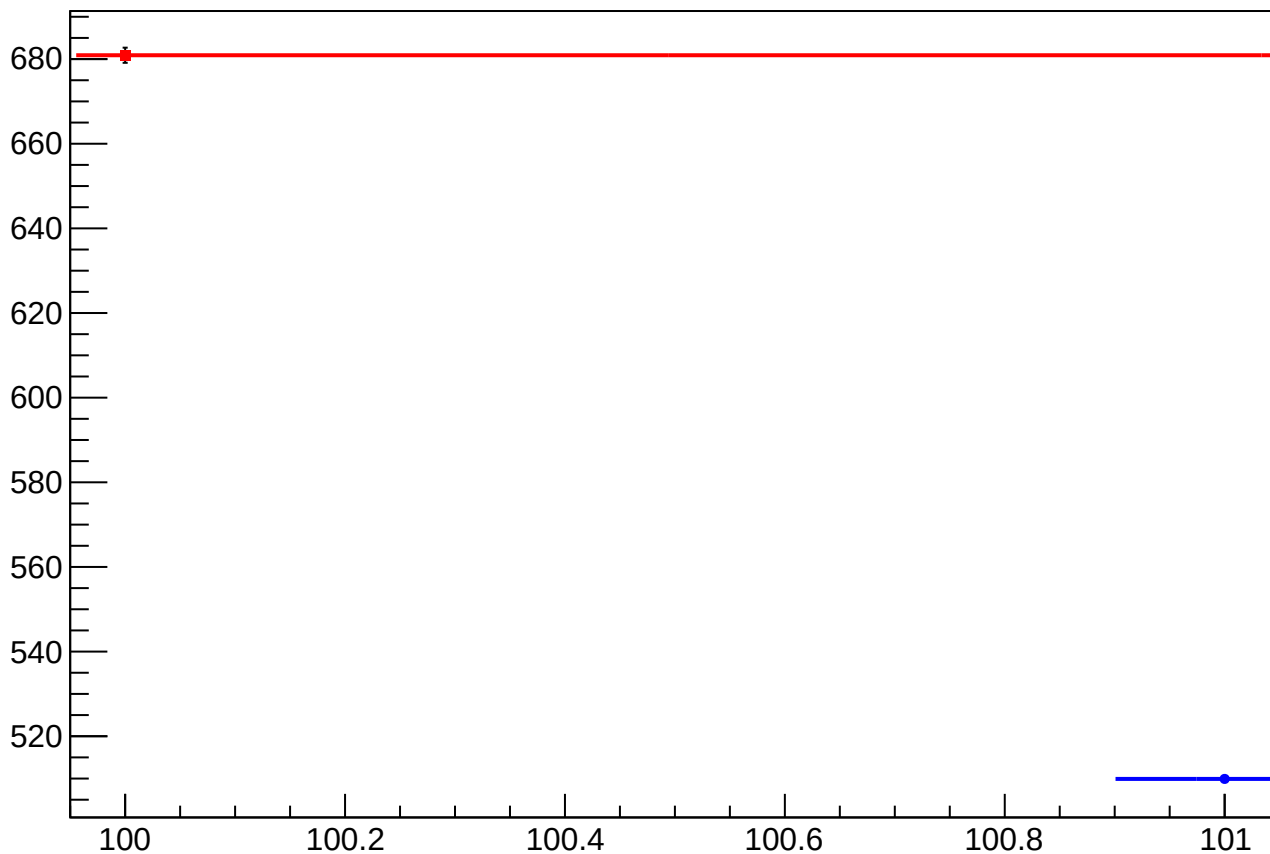
Right: -866.722+/-610.677  $\chi^2/\text{NDF}$ : 7.2/1

In: -1274.383+/-629.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -866.722+/-610.677  $\chi^2/\text{NDF}$ : 7.2/1

asym\_sam\_1548\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 509.915 $\pm$ 0.445  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 680.909 $\pm$ 1.789  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

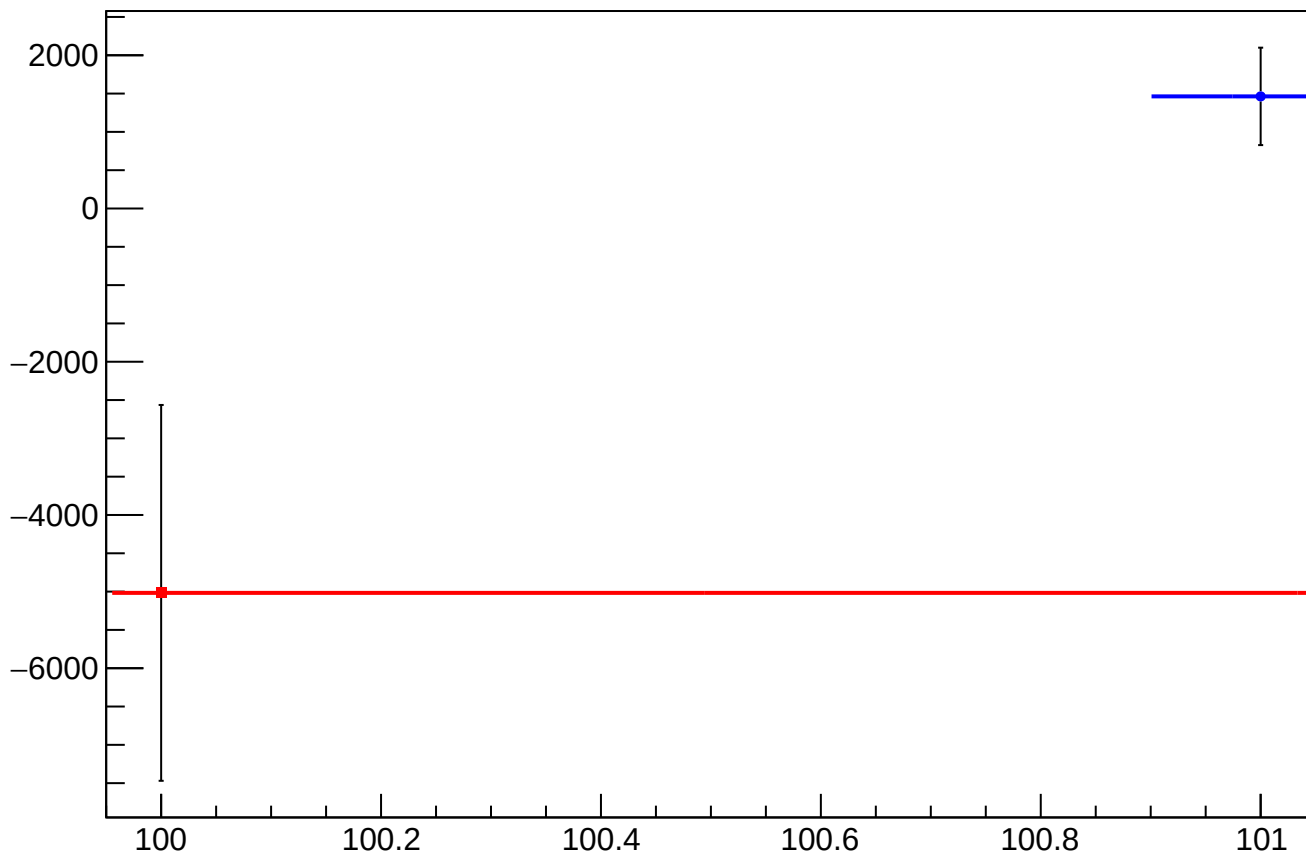
Right: 519.879 $\pm$ 0.432  $\chi^2$ /NDF: 8605.2/1

In: 509.915 $\pm$ 0.445  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 519.879 $\pm$ 0.432  $\chi^2$ /NDF: 8605.2/1

asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In: 1463.287+/-635.757  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5016.758+/-2452.589  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

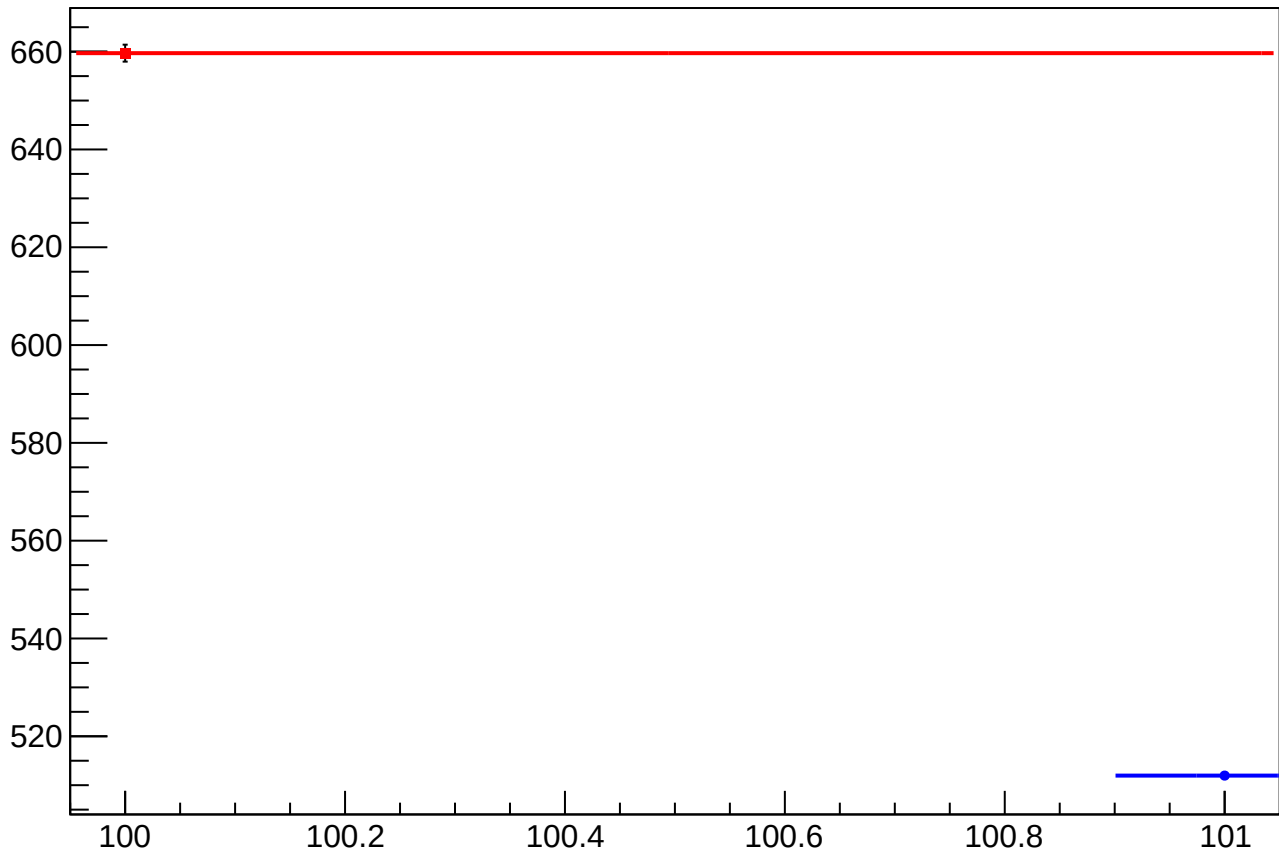
Right: 1055.280+/-615.417  $\chi^2/\text{NDF}$ : 6.5/1

In: 1463.287+/-635.757  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1055.280+/-615.417  $\chi^2/\text{NDF}$ : 6.5/1

asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 511.960 $\pm$ 0.450  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 659.694 $\pm$ 1.734  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

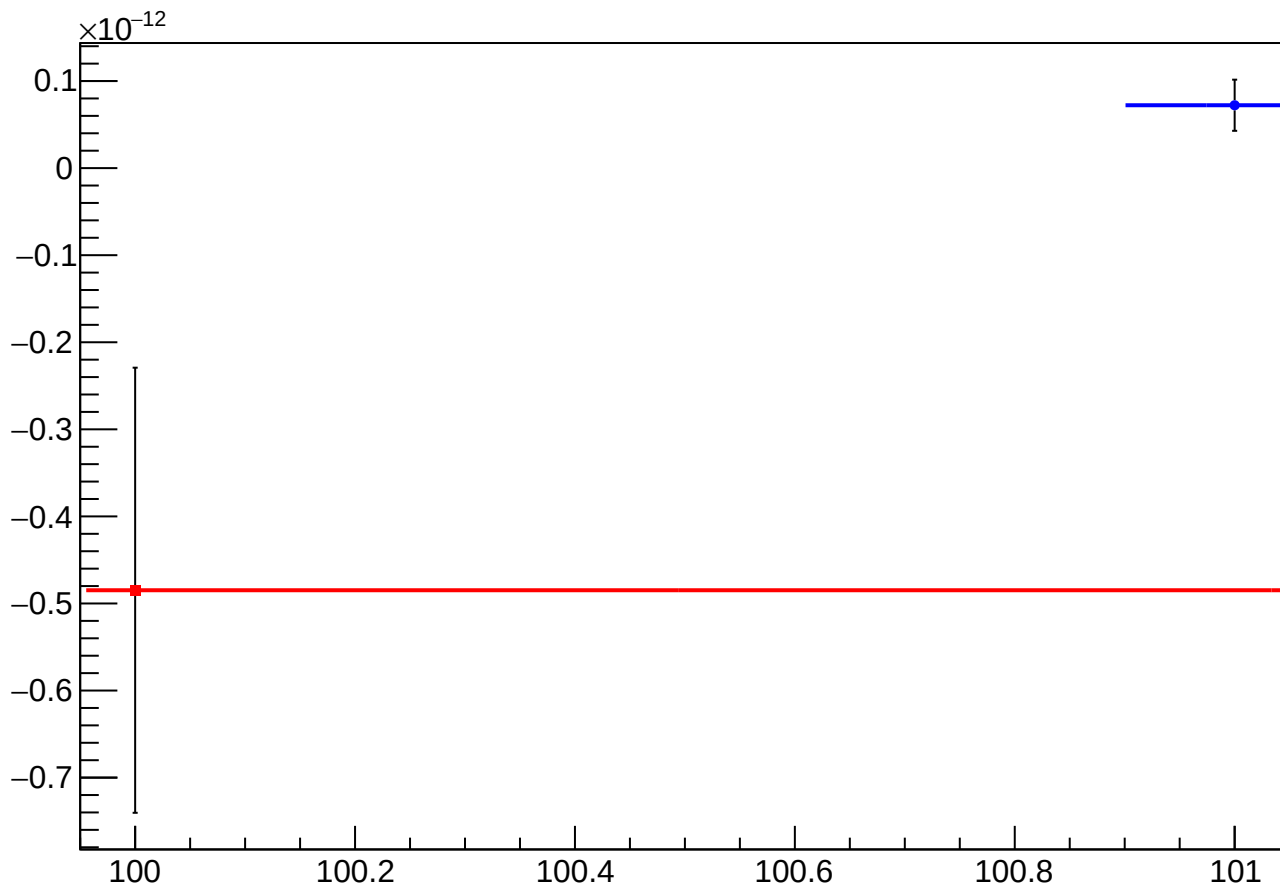
Right: 521.262 $\pm$ 0.435  $\chi^2$ /NDF: 6799.8/1

In: 511.960 $\pm$ 0.450  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 521.262 $\pm$ 0.435  $\chi^2$ /NDF: 6799.8/1

asym\_sam\_1548\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

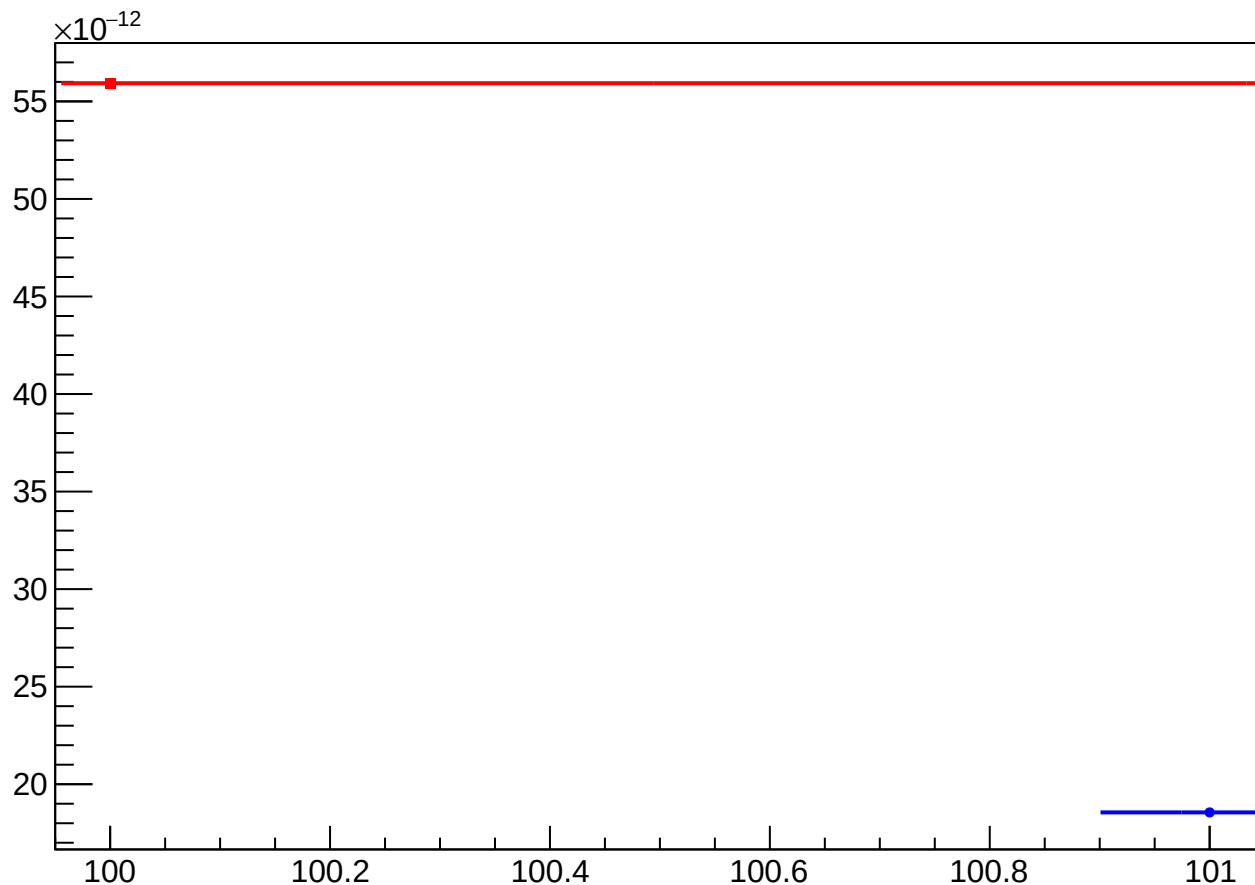
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 4.7/1

asym\_sam\_1548\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

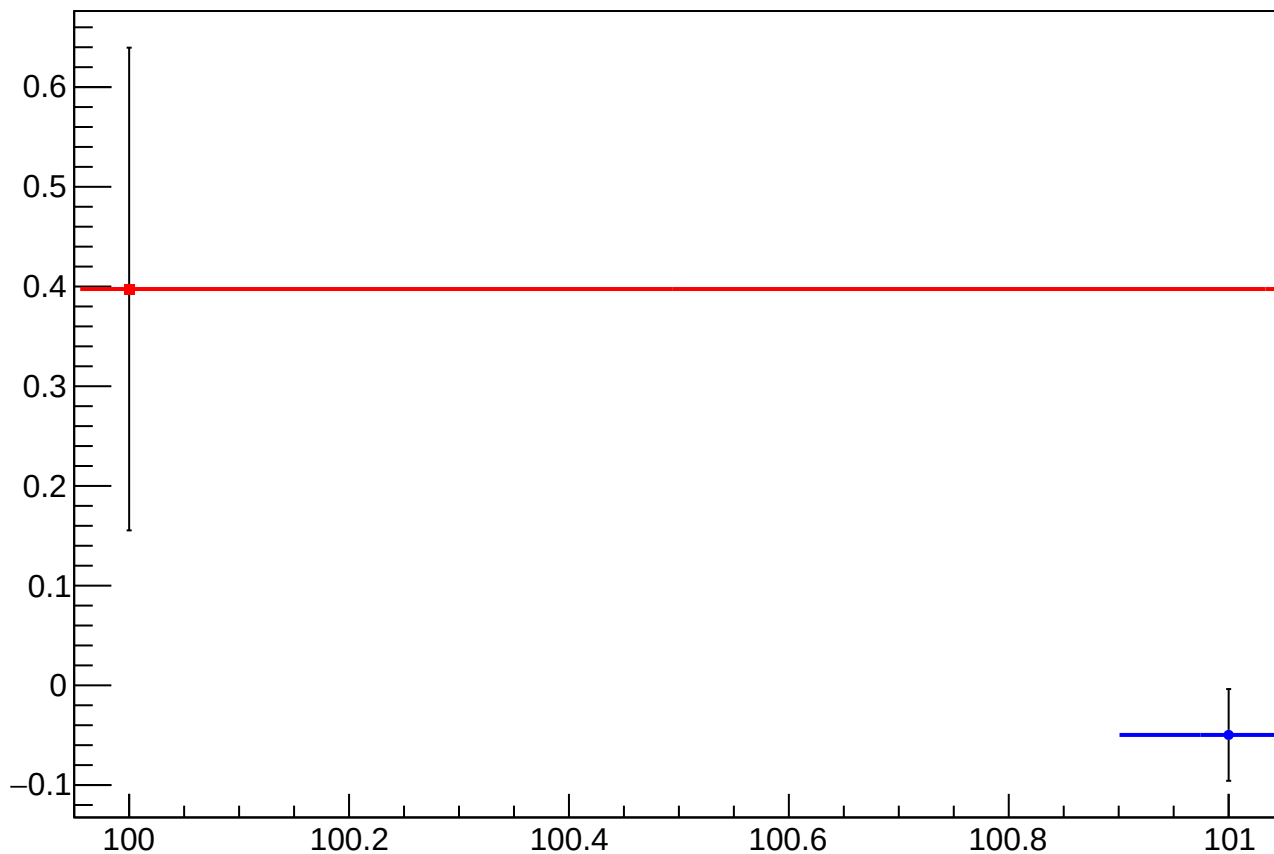
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 42211.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 42211.6/1

asym\_sam\_1548\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.050 $\pm$ 0.046  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.397 $\pm$ 0.242  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

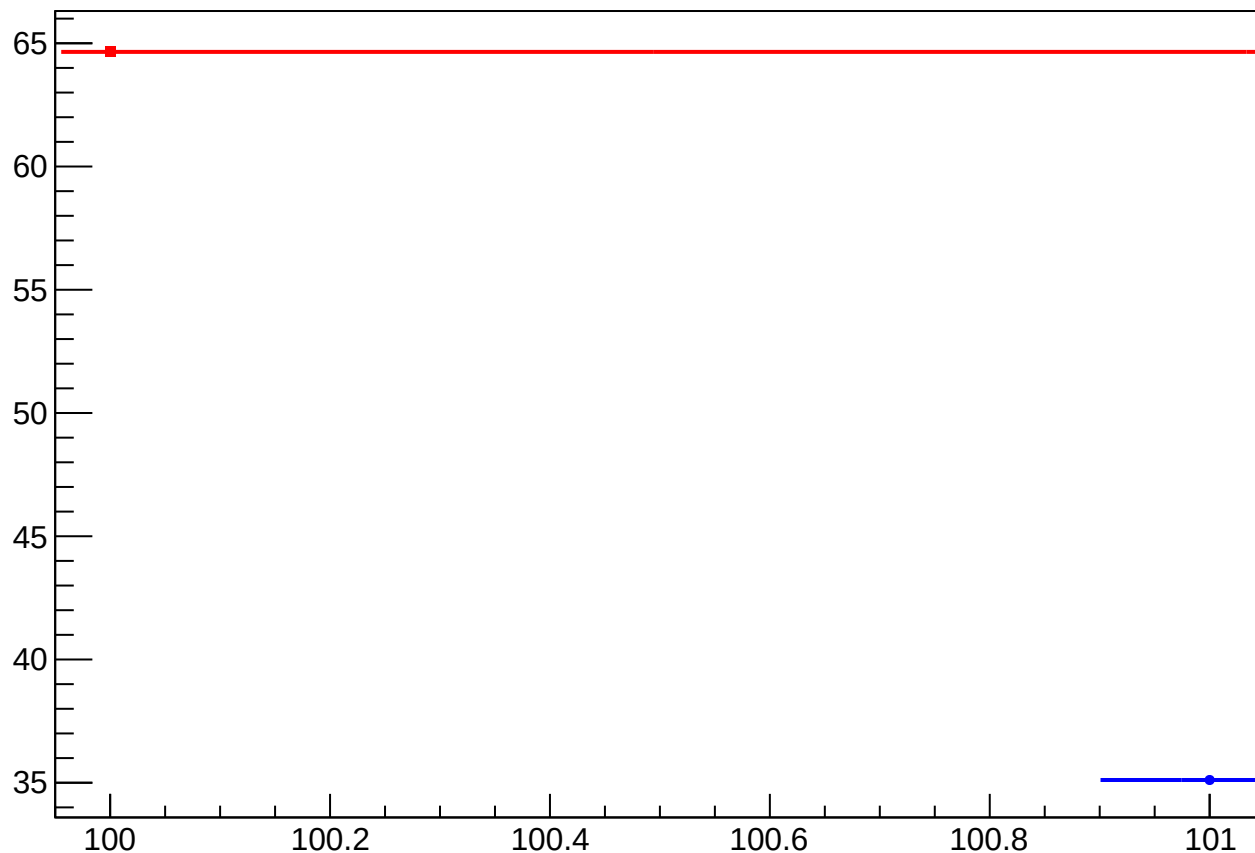
Right: -0.034 $\pm$ 0.045  $\chi^2$ /NDF: 3.3/1

In: -0.050 $\pm$ 0.046  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.034 $\pm$ 0.045  $\chi^2$ /NDF: 3.3/1

asym\_sam\_1548\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 35.111+/-0.033  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.650+/-0.171  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 36.141+/-0.032  $\chi^2/\text{NDF}$ : 28744.4/1

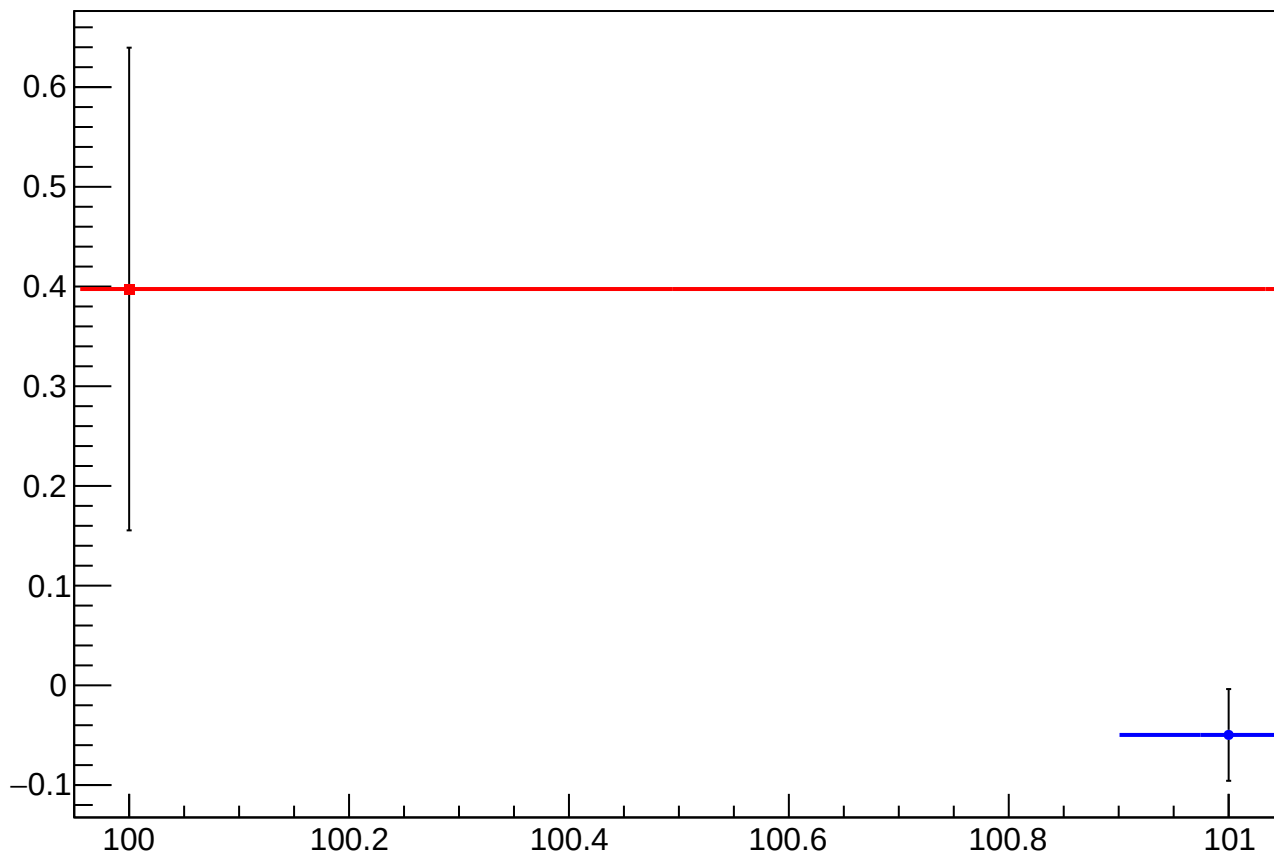
In: 35.111+/-0.033  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.141+/-0.032  $\chi^2/\text{NDF}$ : 28744.4/1



asym\_sam\_1548\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.050 $\pm$ 0.046  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.397 $\pm$ 0.242  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

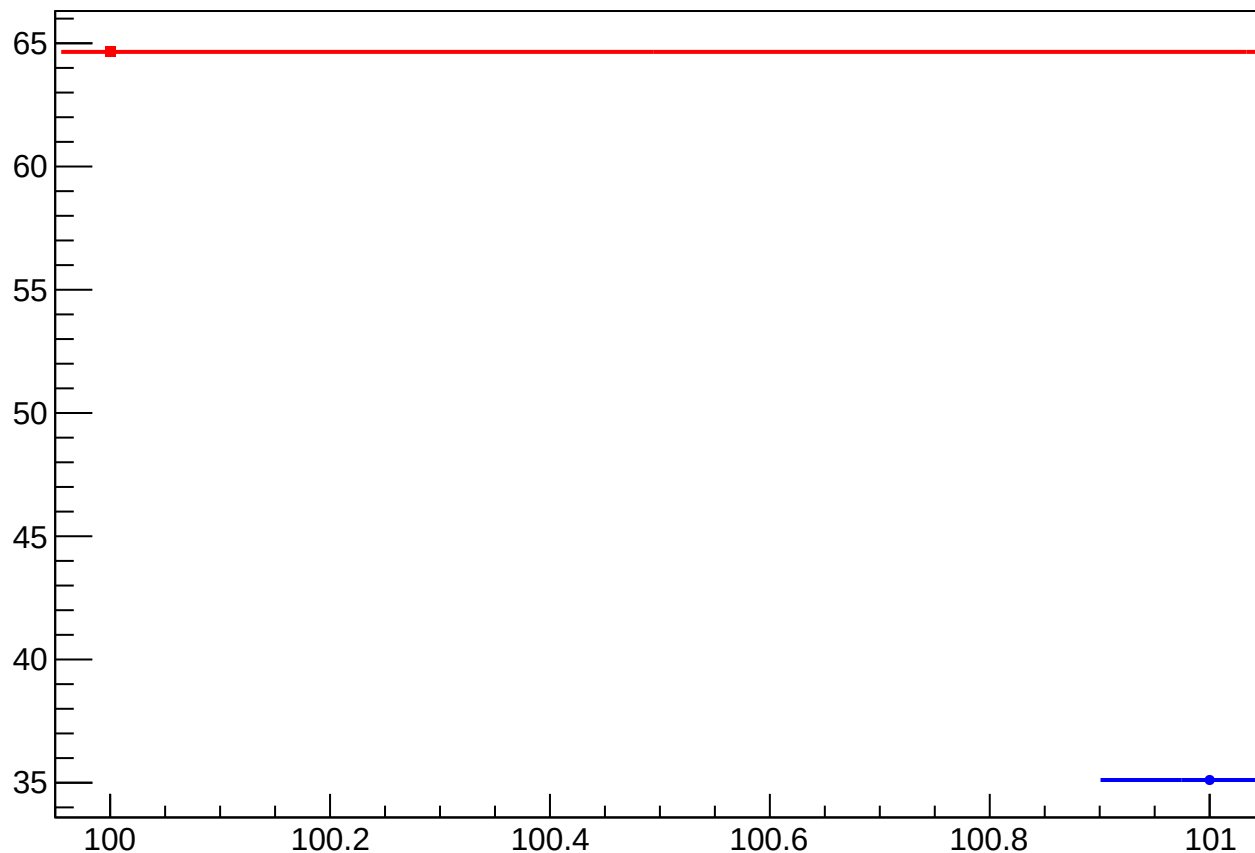
Right: -0.034 $\pm$ 0.045  $\chi^2$ /NDF: 3.3/1

In: -0.050 $\pm$ 0.046  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.034 $\pm$ 0.045  $\chi^2$ /NDF: 3.3/1

asym\_sam\_1548\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 35.111 $\pm$ 0.033  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.650 $\pm$ 0.171  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

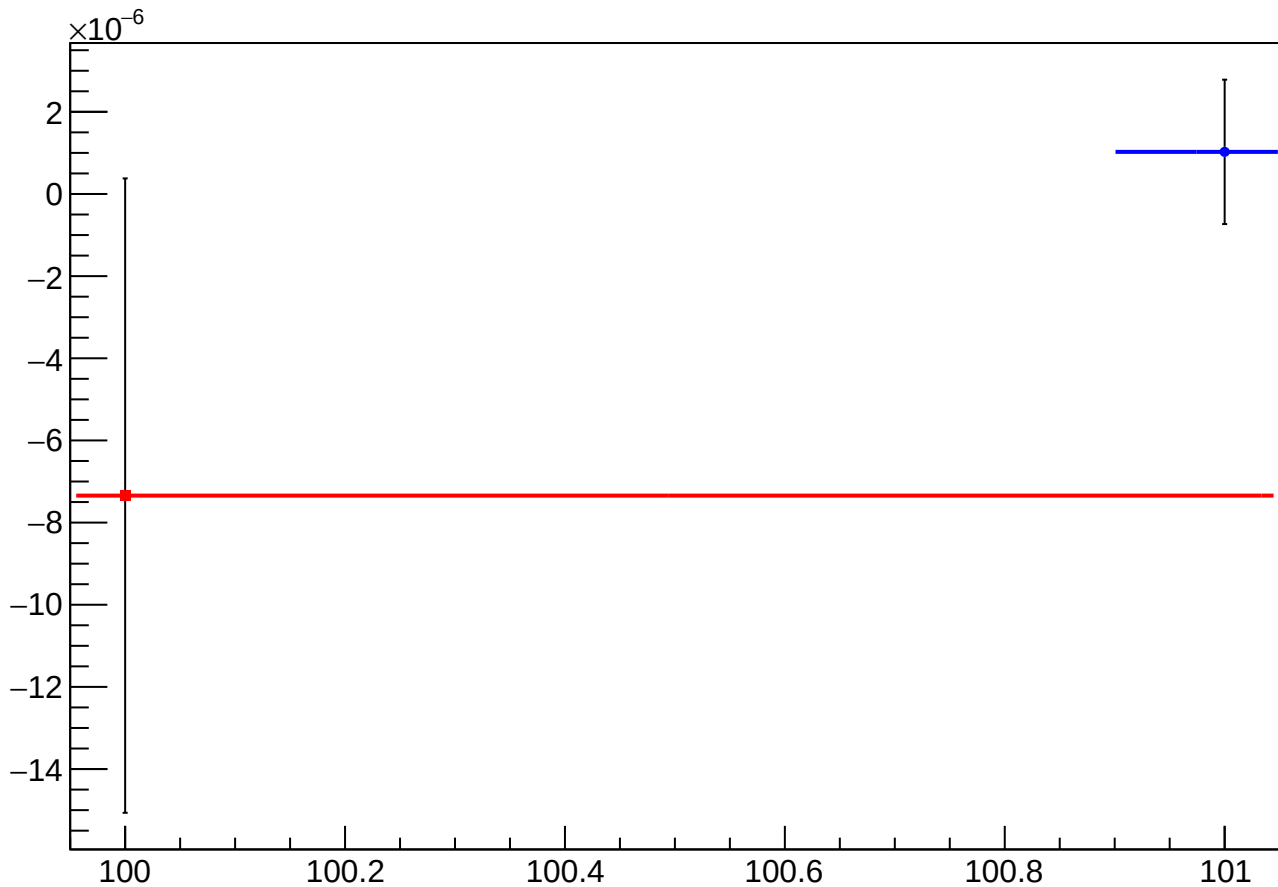
Right: 36.141 $\pm$ 0.032  $\chi^2$ /NDF: 28744.4/1

In: 35.111 $\pm$ 0.033  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 36.141 $\pm$ 0.032  $\chi^2$ /NDF: 28744.4/1

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

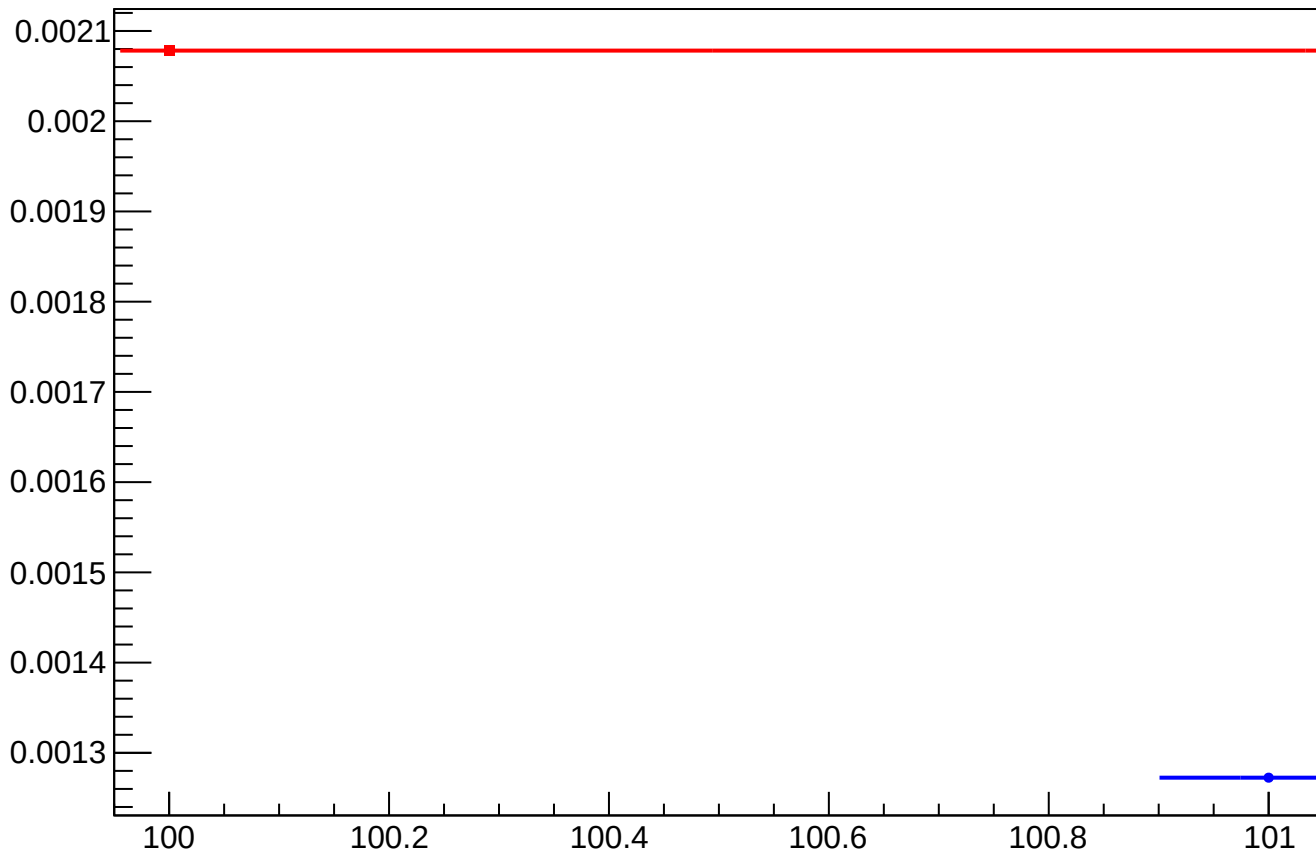
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.1/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1.1/1

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

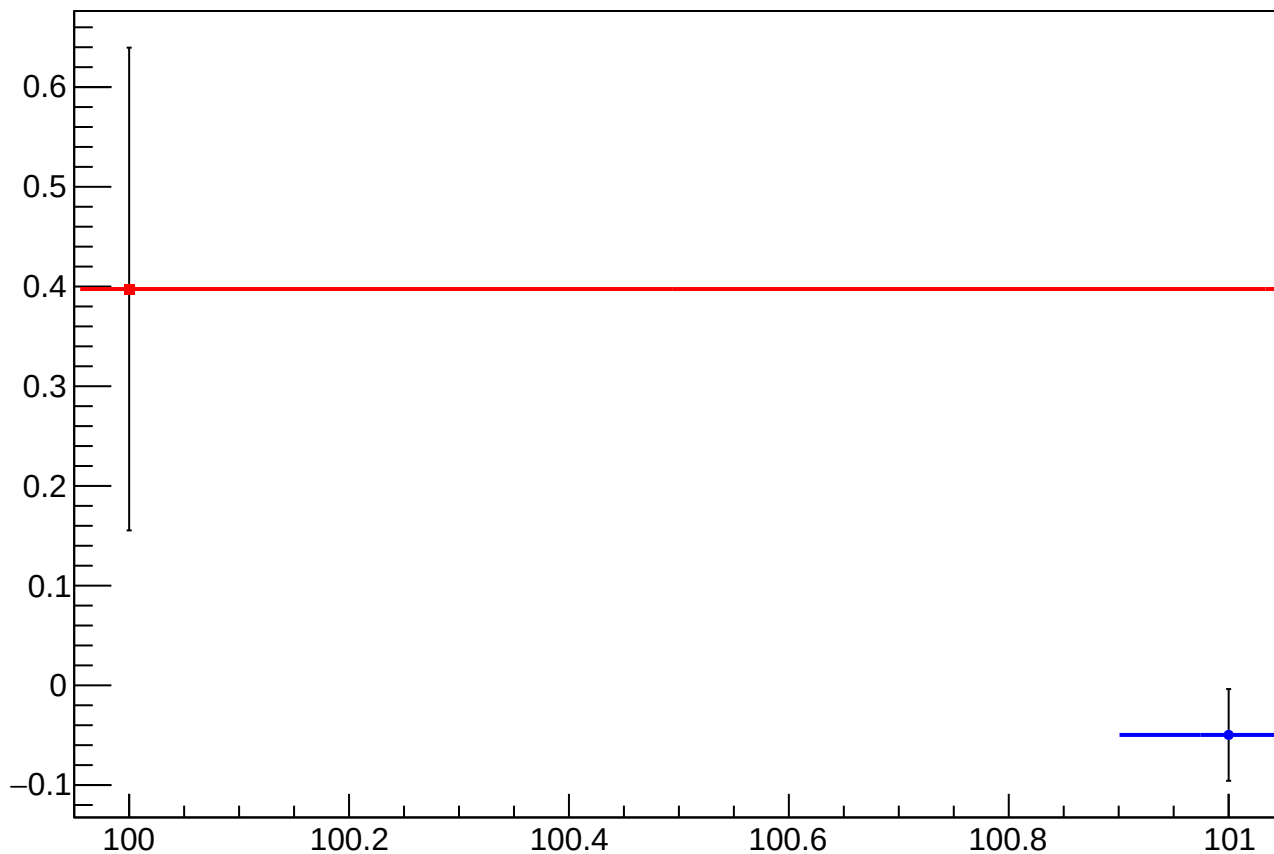
Right: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 20704.1/1

In: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 20704.1/1

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.050 $\pm$ 0.046  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.397 $\pm$ 0.242  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

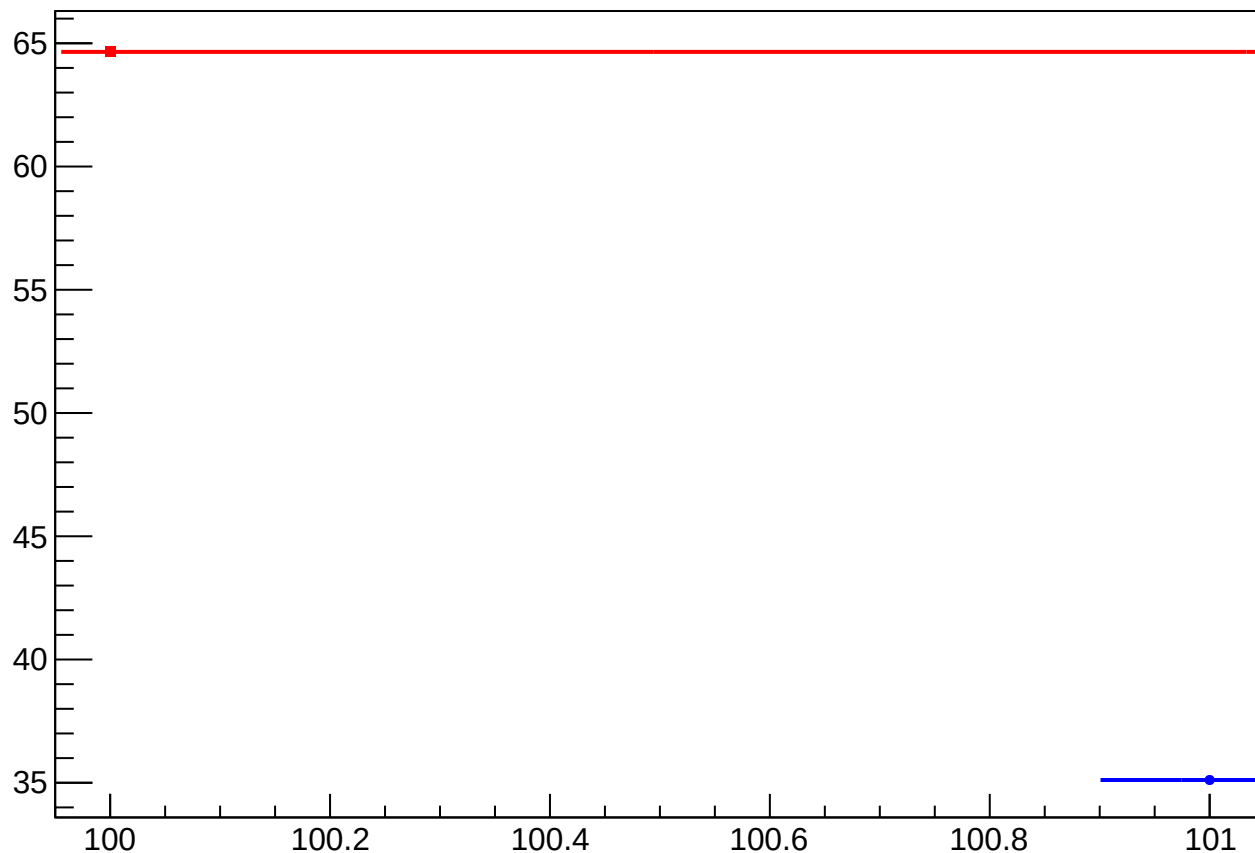
Right: -0.034 $\pm$ 0.045  $\chi^2$ /NDF: 3.3/1

In: -0.050 $\pm$ 0.046  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.034 $\pm$ 0.045  $\chi^2$ /NDF: 3.3/1

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 35.112+/-0.033  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.651+/-0.171  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

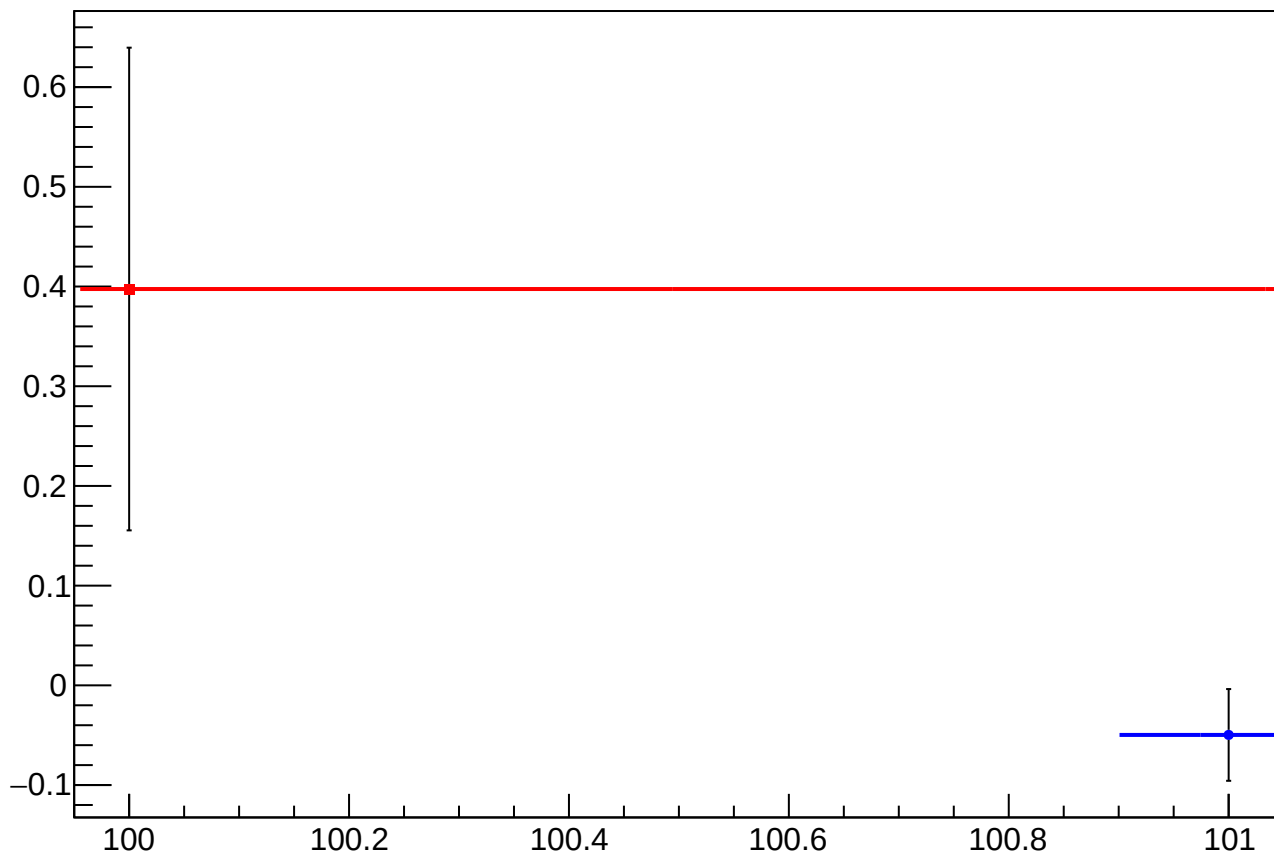
Right: 36.142+/-0.032  $\chi^2/\text{NDF}$ : 28742.8/1

In: 35.112+/-0.033  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.142+/-0.032  $\chi^2/\text{NDF}$ : 28742.8/1

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.050 $\pm$ 0.046  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.397 $\pm$ 0.242  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

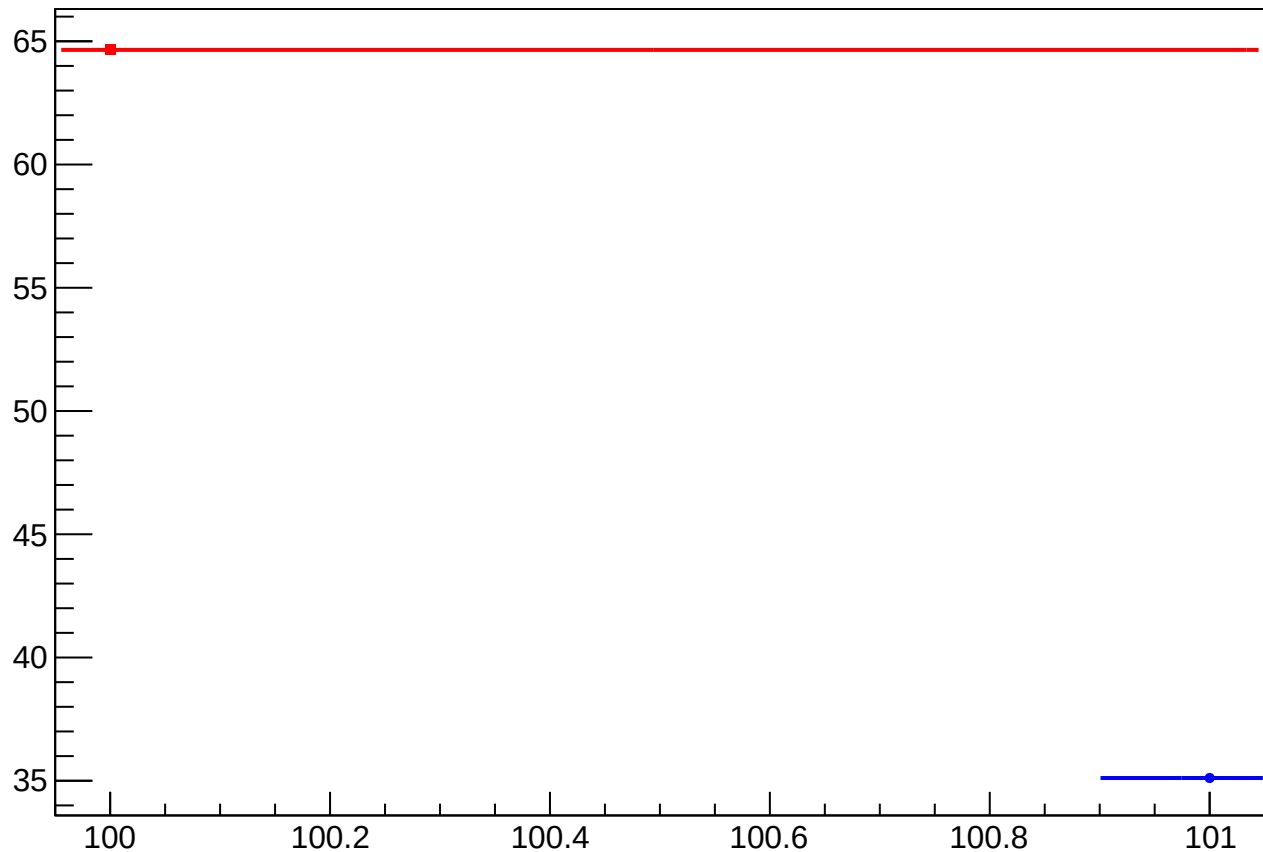
Right: -0.034 $\pm$ 0.045  $\chi^2$ /NDF: 3.3/1

In: -0.050 $\pm$ 0.046  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.034 $\pm$ 0.045  $\chi^2$ /NDF: 3.3/1

asym\_sam\_1548\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In:  $35.112 \pm 0.033$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $64.651 \pm 0.171$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right:  $36.142 \pm 0.032$   $\chi^2/\text{NDF}: 28742.8/1$

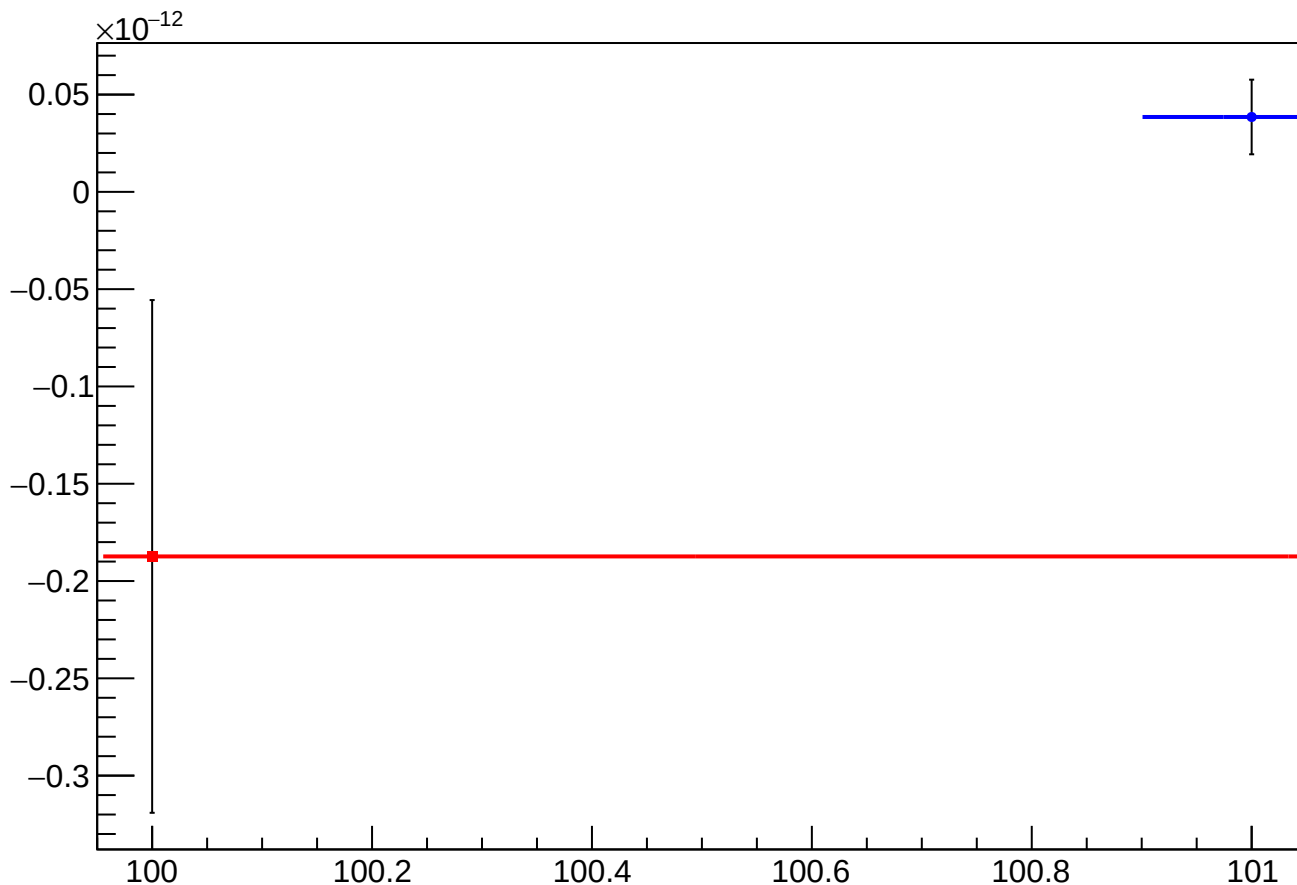
In:  $35.112 \pm 0.033$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $36.142 \pm 0.032$   $\chi^2/\text{NDF}: 28742.8/1$



asym\_sam\_1548\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

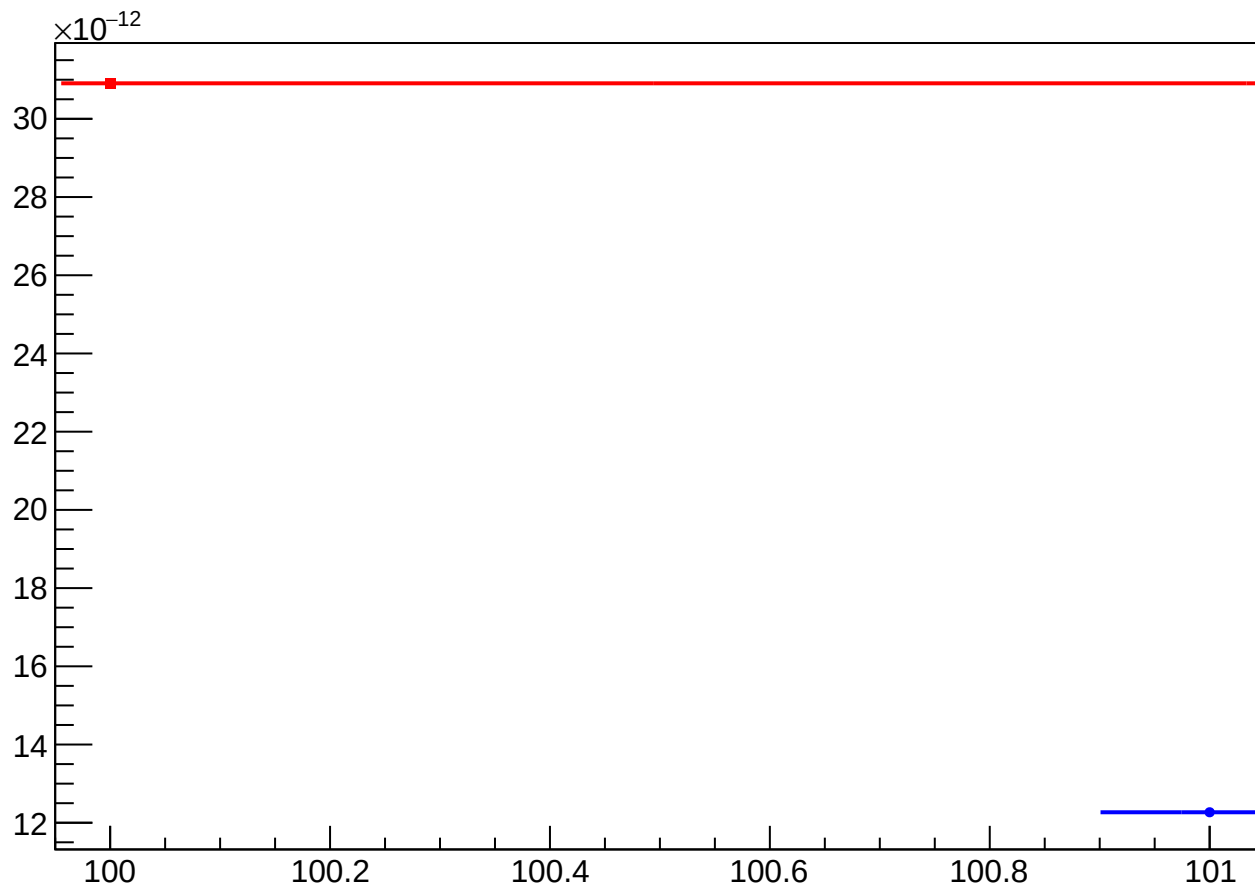
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.9/1

asym\_sam\_1548\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

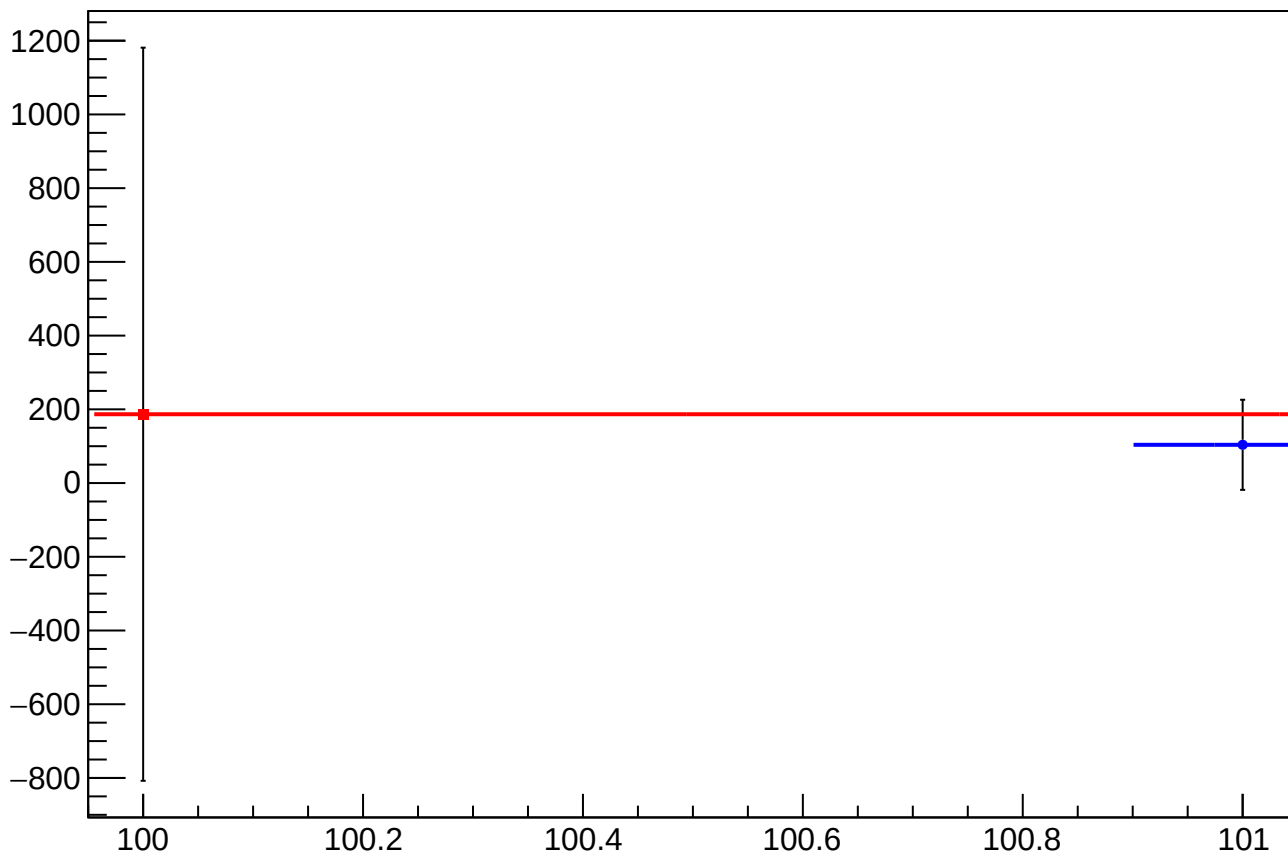
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 39202.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 39202.4/1

reg\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: 103.757+/-122.210  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 186.703+/-994.406  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

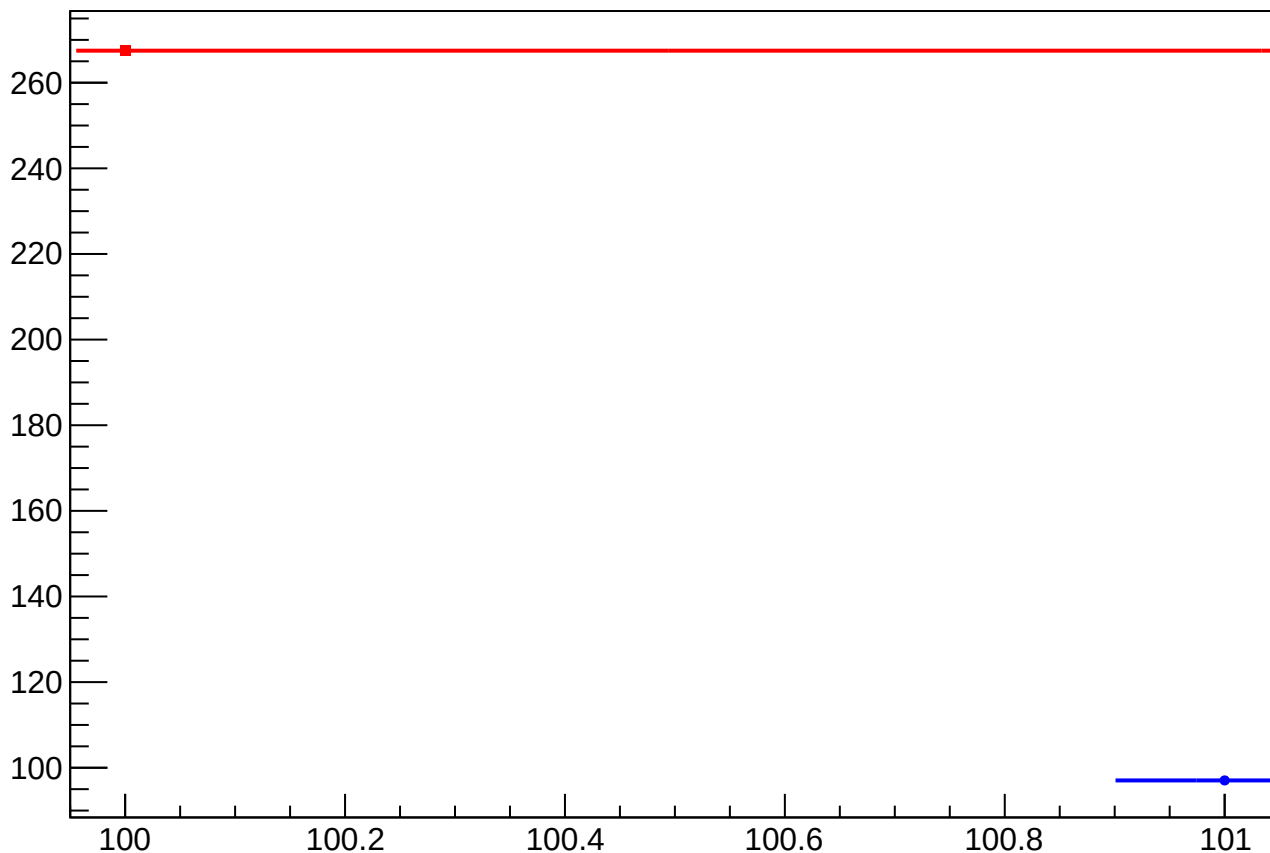
Right: 104.991+/-121.297  $\chi^2/\text{NDF}$ : 0.0/1

In: 103.757+/-122.210  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 104.991+/-121.297  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 97.039+/-0.086  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 267.479+/-0.703  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

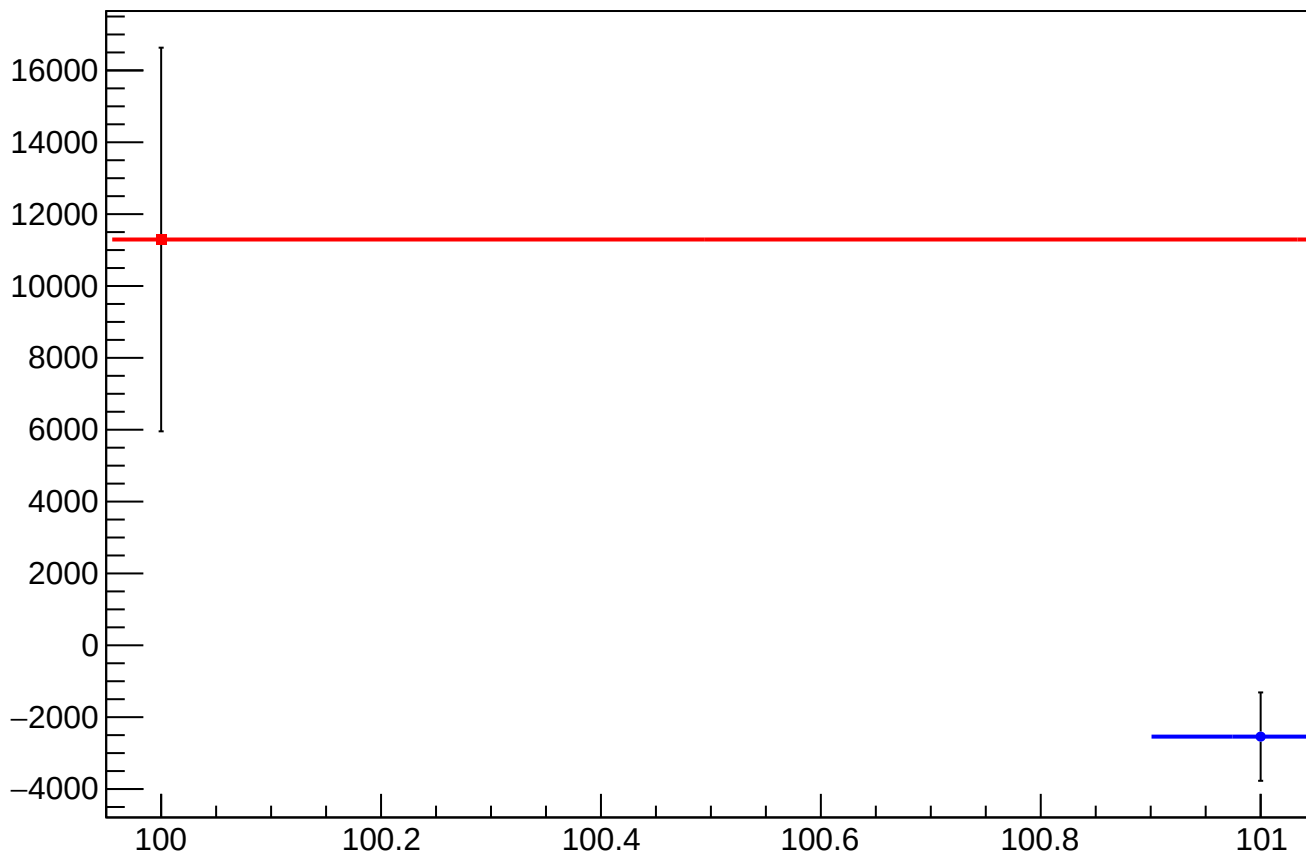
Right: 99.575+/-0.086  $\chi^2/\text{NDF}$ : 57880.9/1

In: 97.039+/-0.086  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 99.575+/-0.086  $\chi^2/\text{NDF}$ : 57880.9/1

asym\_sam\_3748\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -2541.307 $\pm$ 1229.688  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 11294.008 $\pm$ 5338.798  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

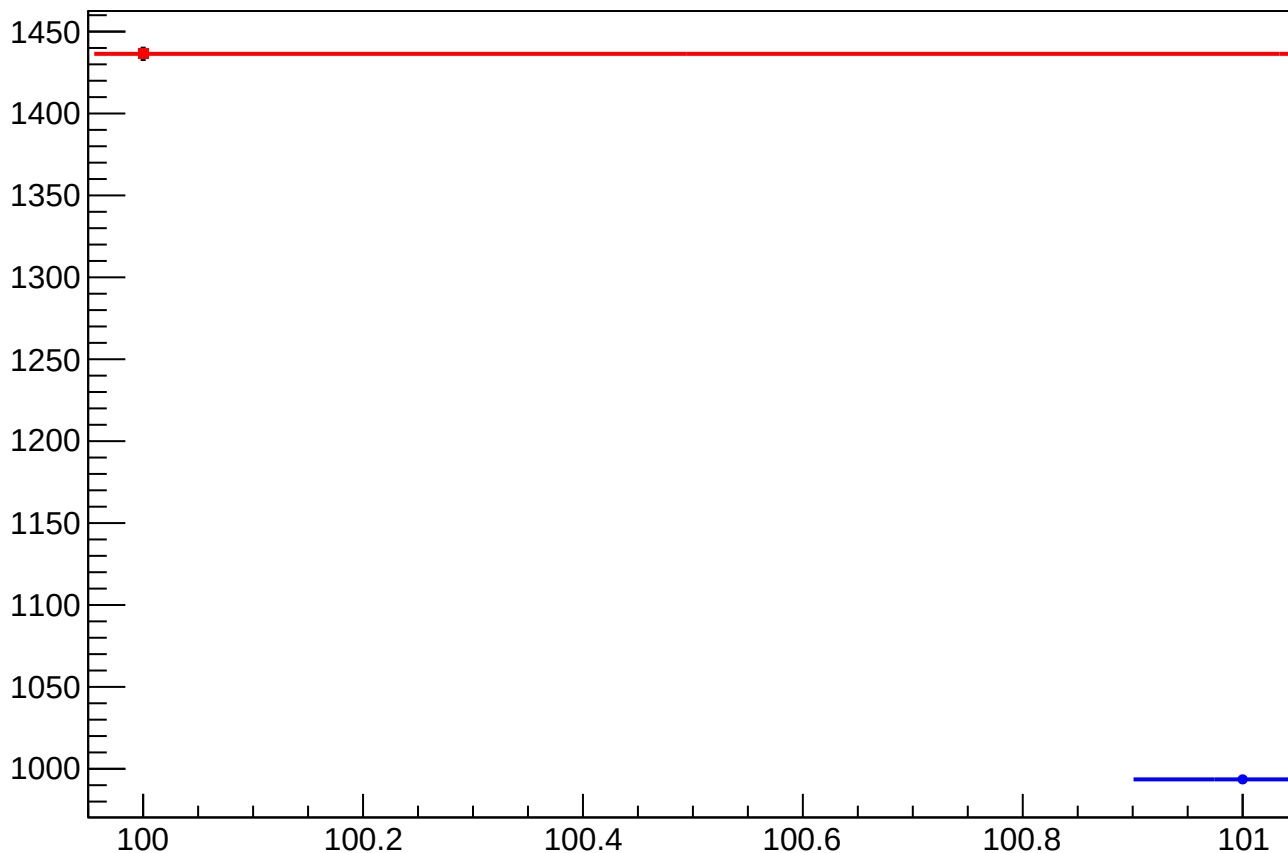
Right: -1844.292 $\pm$ 1198.312  $\chi^2$ /NDF: 6.4/1

In: -2541.307 $\pm$ 1229.688  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -1844.292 $\pm$ 1198.312  $\chi^2$ /NDF: 6.4/1

asym\_sam\_3748\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 993.556 $\pm$ 0.870  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1436.408 $\pm$ 3.775  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

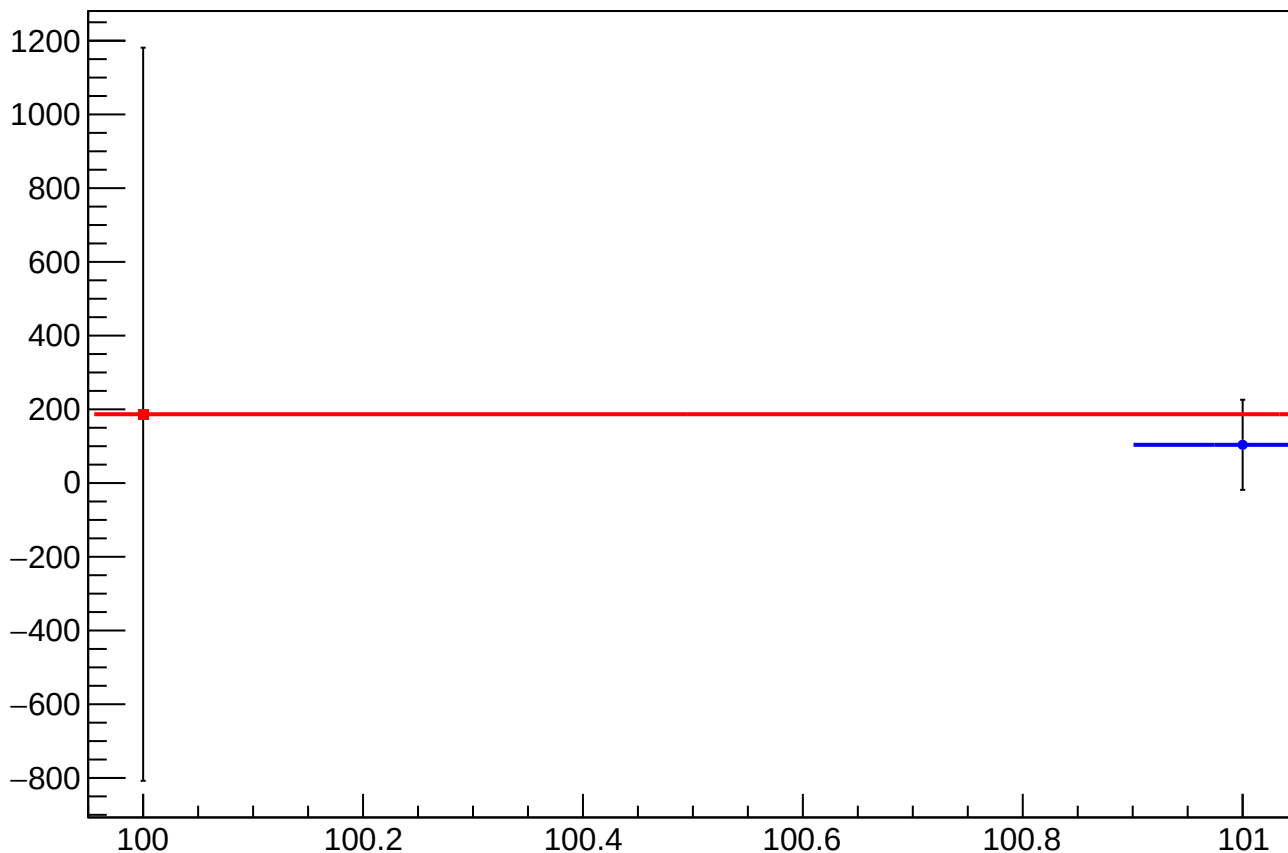
Right: 1015.867 $\pm$ 0.847  $\chi^2$ /NDF: 13068.0/1

In: 993.556 $\pm$ 0.870  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1015.867 $\pm$ 0.847  $\chi^2$ /NDF: 13068.0/1

cor\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: 103.753+/-122.210  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 186.714+/-994.406  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

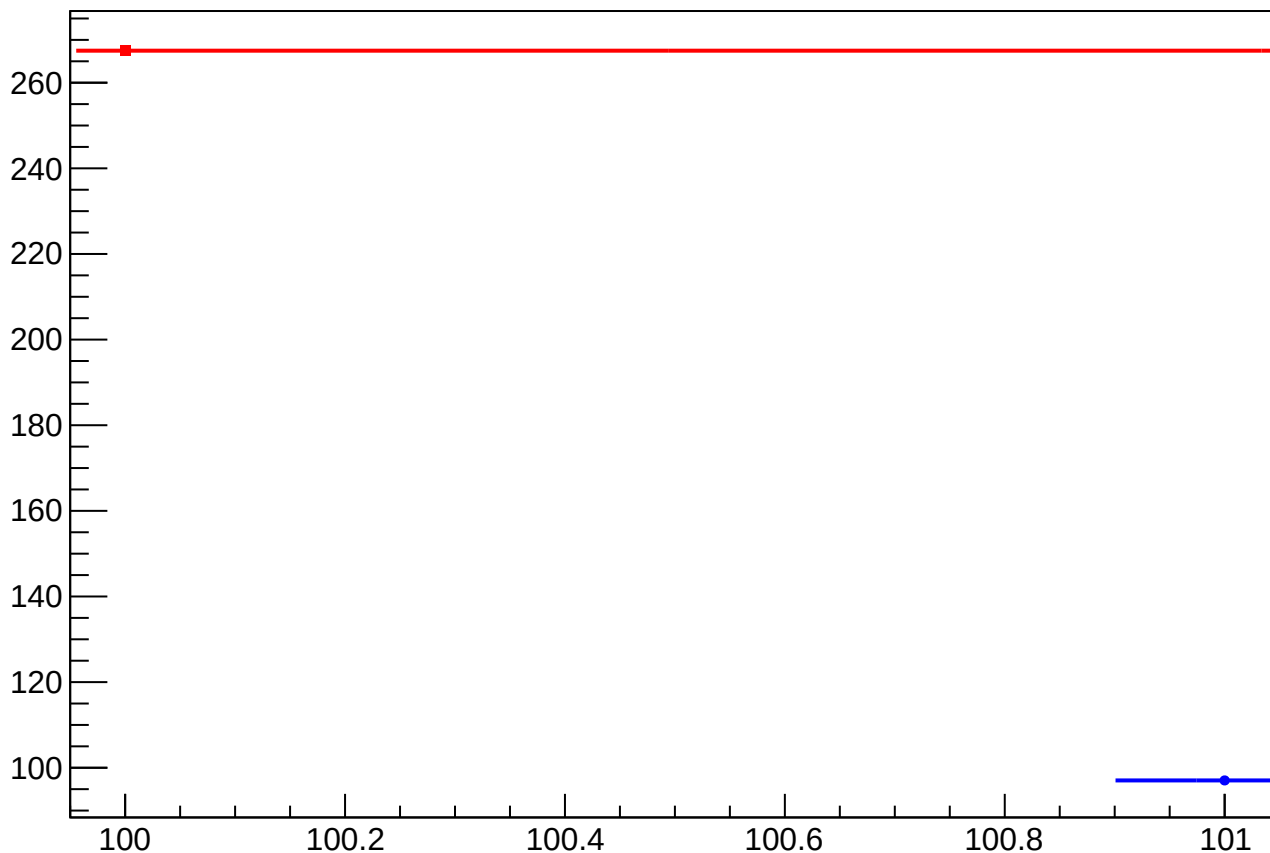
Right: 104.987+/-121.297  $\chi^2$ /NDF: 0.0/1

In: 103.753+/-122.210  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 104.987+/-121.297  $\chi^2$ /NDF: 0.0/1

cor\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 97.039 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 267.479 $\pm$ 0.703  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 99.575 $\pm$ 0.086  $\chi^2$ /NDF: 57880.9/1

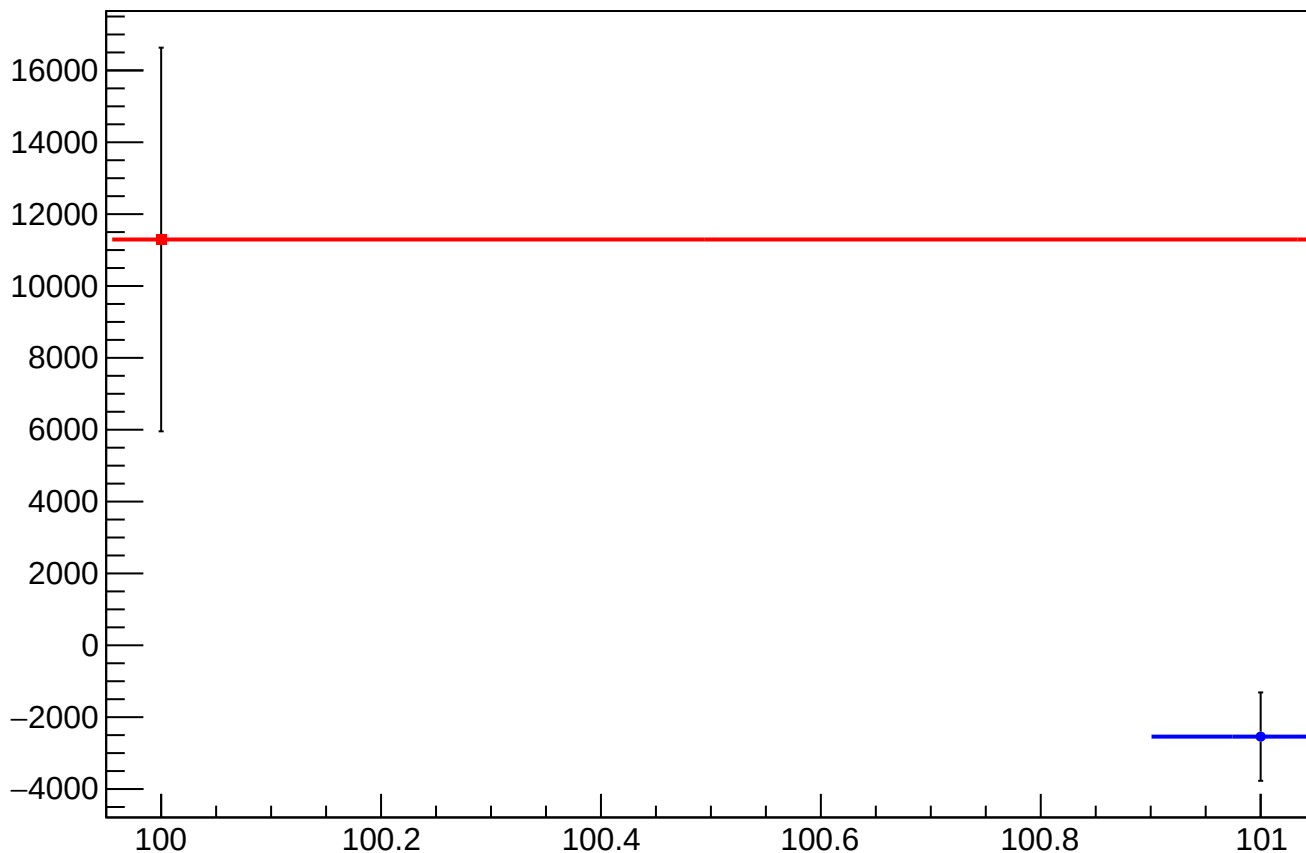
In: 97.039 $\pm$ 0.086  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 99.575 $\pm$ 0.086  $\chi^2$ /NDF: 57880.9/1



asym\_sam\_3748\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2541.314+/-1229.689  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 11294.015+/-5338.801  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

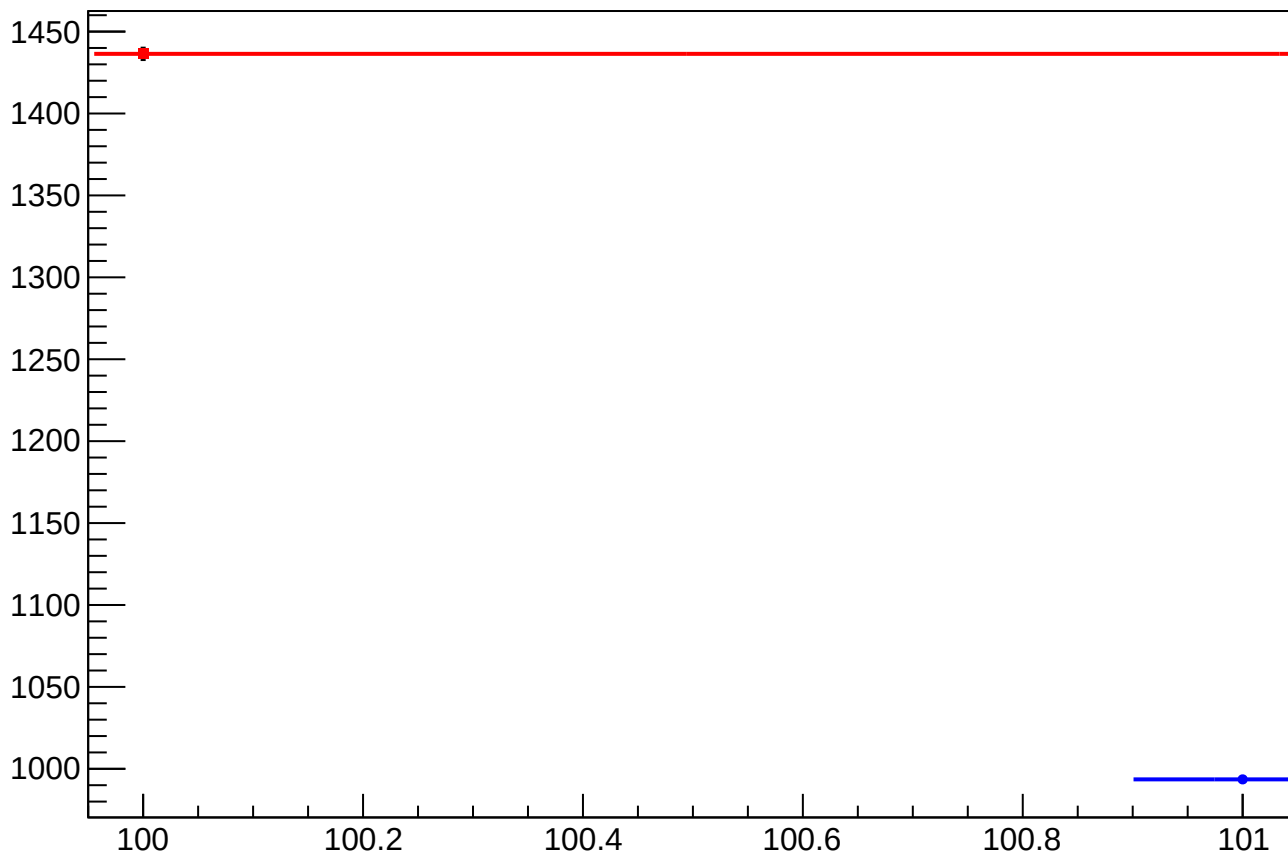
Right: -1844.299+/-1198.313  $\chi^2$ /NDF: 6.4/1

In: -2541.314+/-1229.689  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -1844.299+/-1198.313  $\chi^2$ /NDF: 6.4/1

asym\_sam\_3748\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 993.556 $\pm$ 0.870  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1436.408 $\pm$ 3.775  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

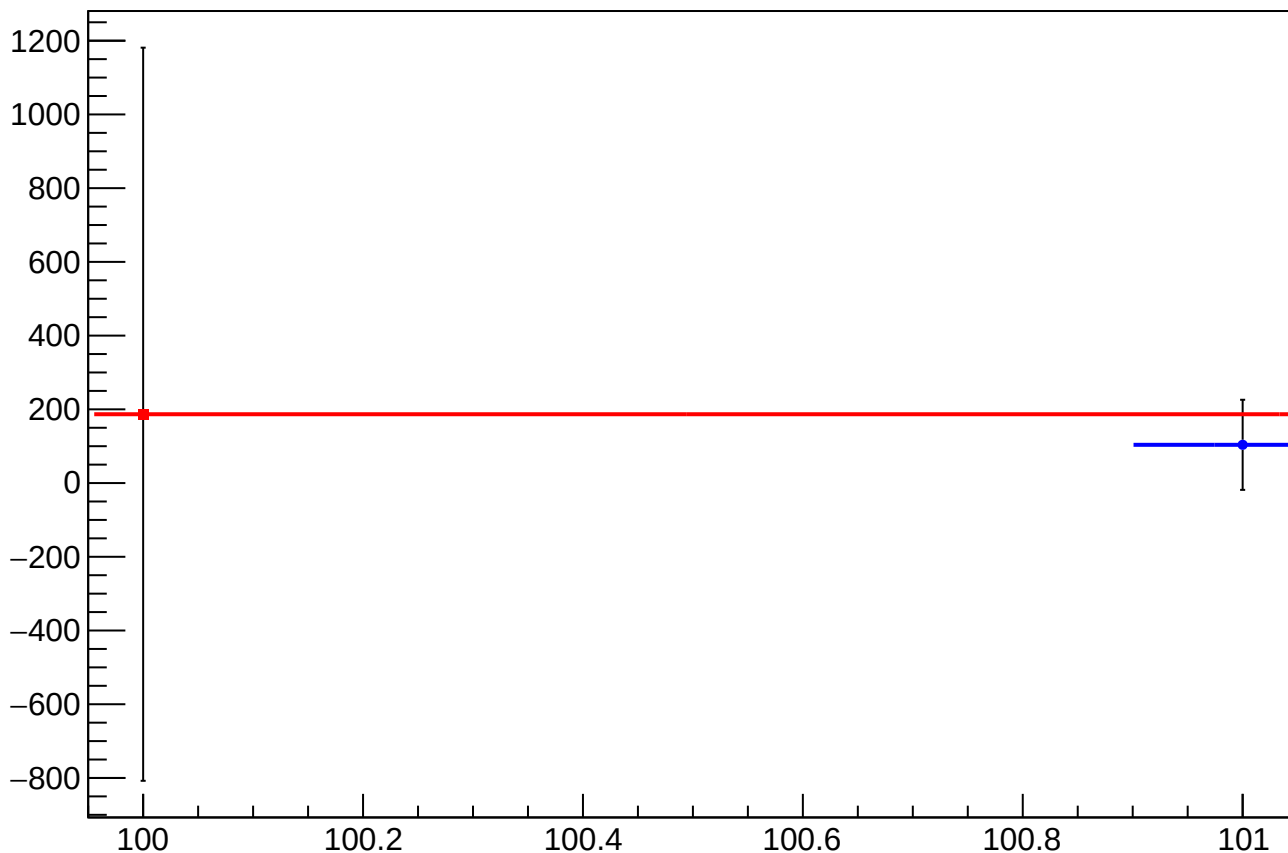
Right: 1015.867 $\pm$ 0.847  $\chi^2$ /NDF: 13068.0/1

In: 993.556 $\pm$ 0.870  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1015.867 $\pm$ 0.847  $\chi^2$ /NDF: 13068.0/1

eigen\_cor\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: 103.753+/-122.210  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 186.714+/-994.406  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

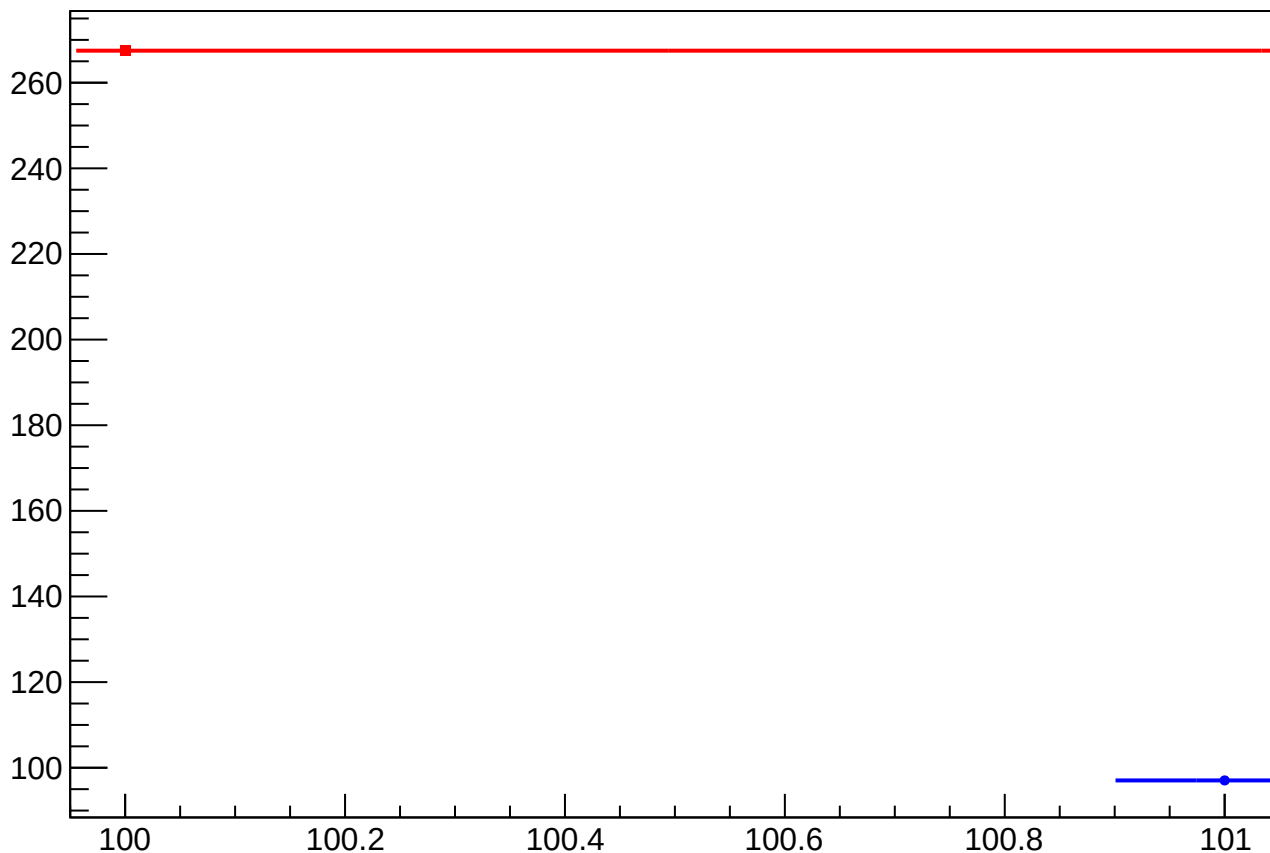
Right: 104.987+/-121.297  $\chi^2/\text{NDF}$ : 0.0/1

In: 103.753+/-122.210  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 104.987+/-121.297  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 97.039+/-0.086  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 267.479+/-0.703  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

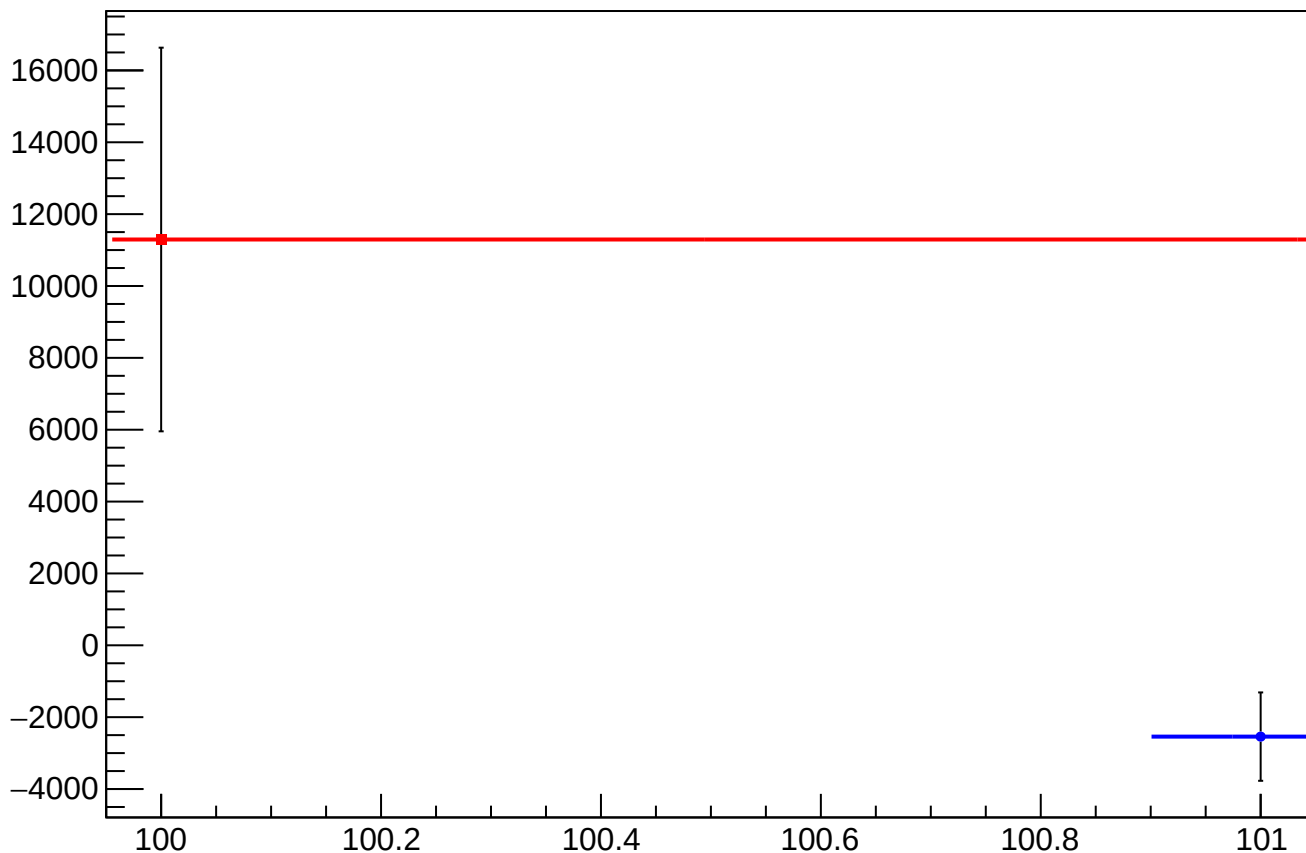
Right: 99.575+/-0.086  $\chi^2/\text{NDF}$ : 57880.9/1

In: 97.039+/-0.086  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 99.575+/-0.086  $\chi^2/\text{NDF}$ : 57880.9/1

asym\_sam\_3748\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2541.314 $\pm$ 1229.689  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11294.015 $\pm$ 5338.801  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

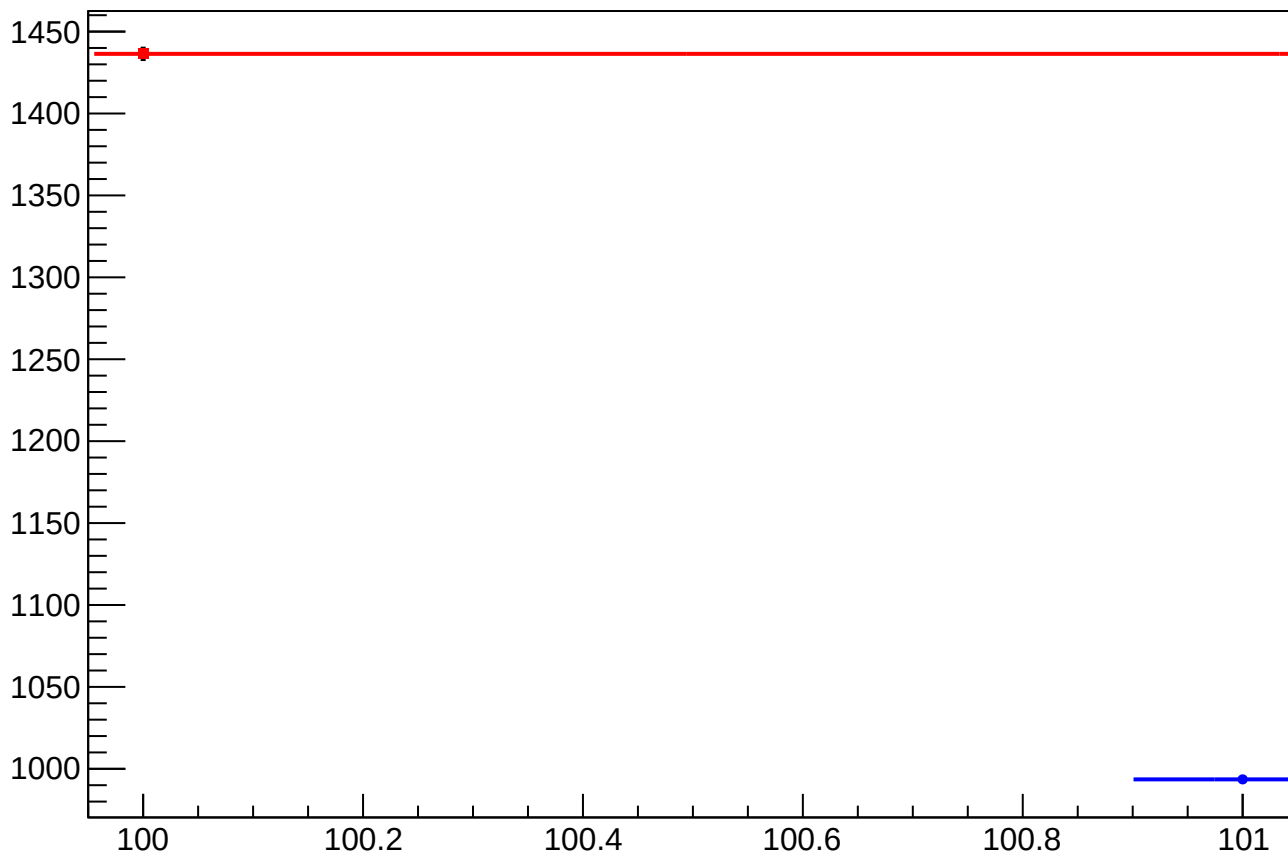
Right: -1844.299 $\pm$ 1198.313  $\chi^2$ /NDF: 6.4/1

In: -2541.314 $\pm$ 1229.689  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1844.299 $\pm$ 1198.313  $\chi^2$ /NDF: 6.4/1

asym\_sam\_3748\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 993.556 $\pm$ 0.870  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1436.408 $\pm$ 3.775  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

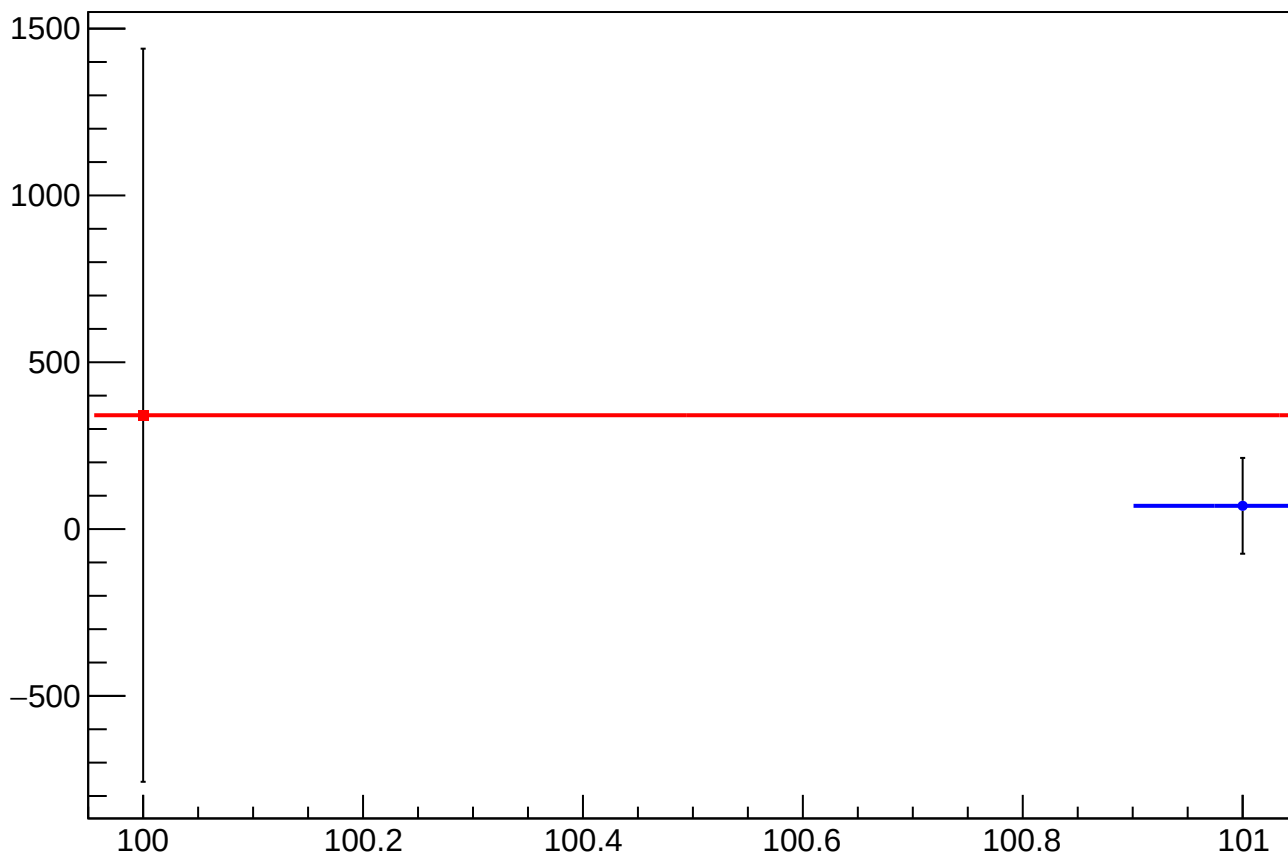
Right: 1015.867 $\pm$ 0.847  $\chi^2$ /NDF: 13068.0/1

In: 993.556 $\pm$ 0.870  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1015.867 $\pm$ 0.847  $\chi^2$ /NDF: 13068.0/1

dit\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: 69.708+/-143.597  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 341.236+/-1098.694  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

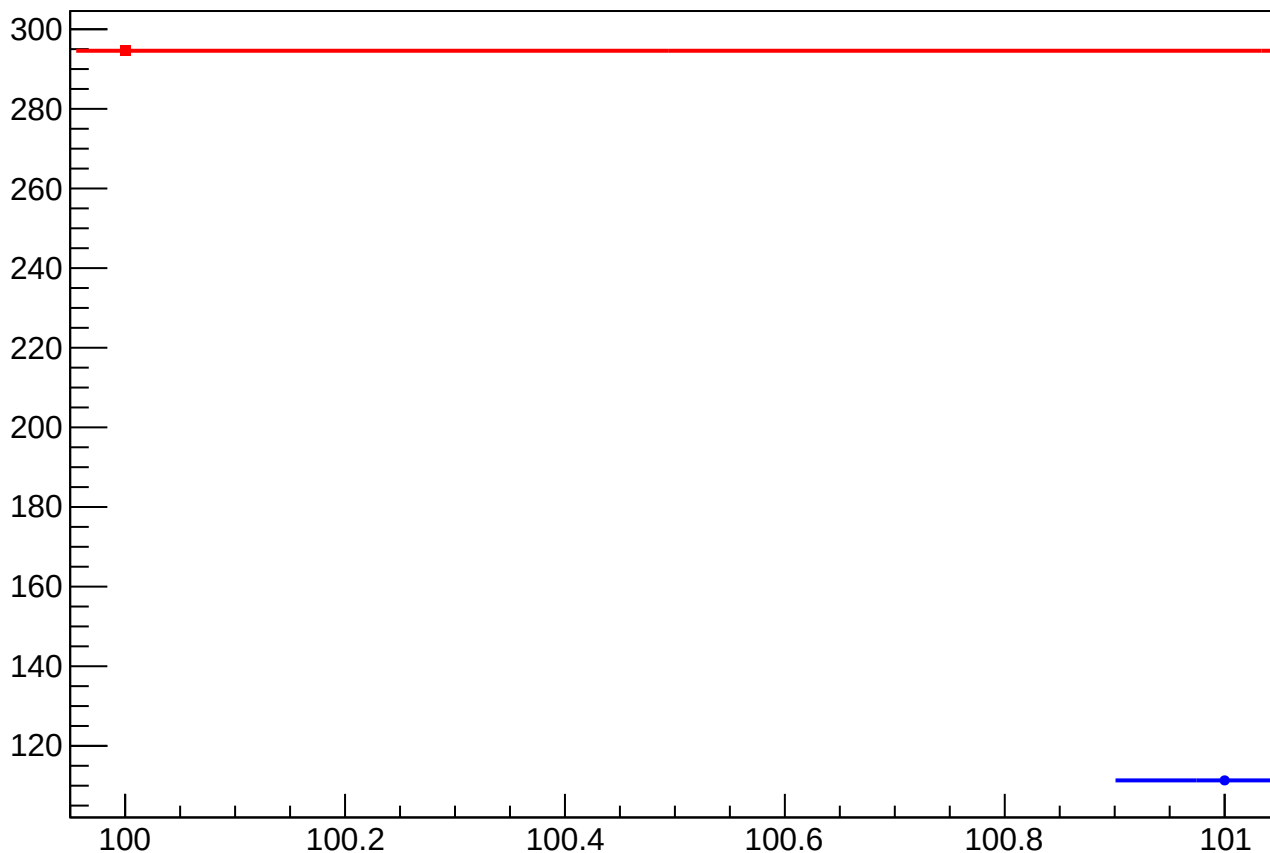
Right: 74.268+/-142.386  $\chi^2/\text{NDF}$ : 0.1/1

In: 69.708+/-143.597  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.268+/-142.386  $\chi^2/\text{NDF}$ : 0.1/1

dit\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 111.330 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 294.591 $\pm$ 0.777  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 114.408 $\pm$ 0.101  $\chi^2$ /NDF: 54709.3/1

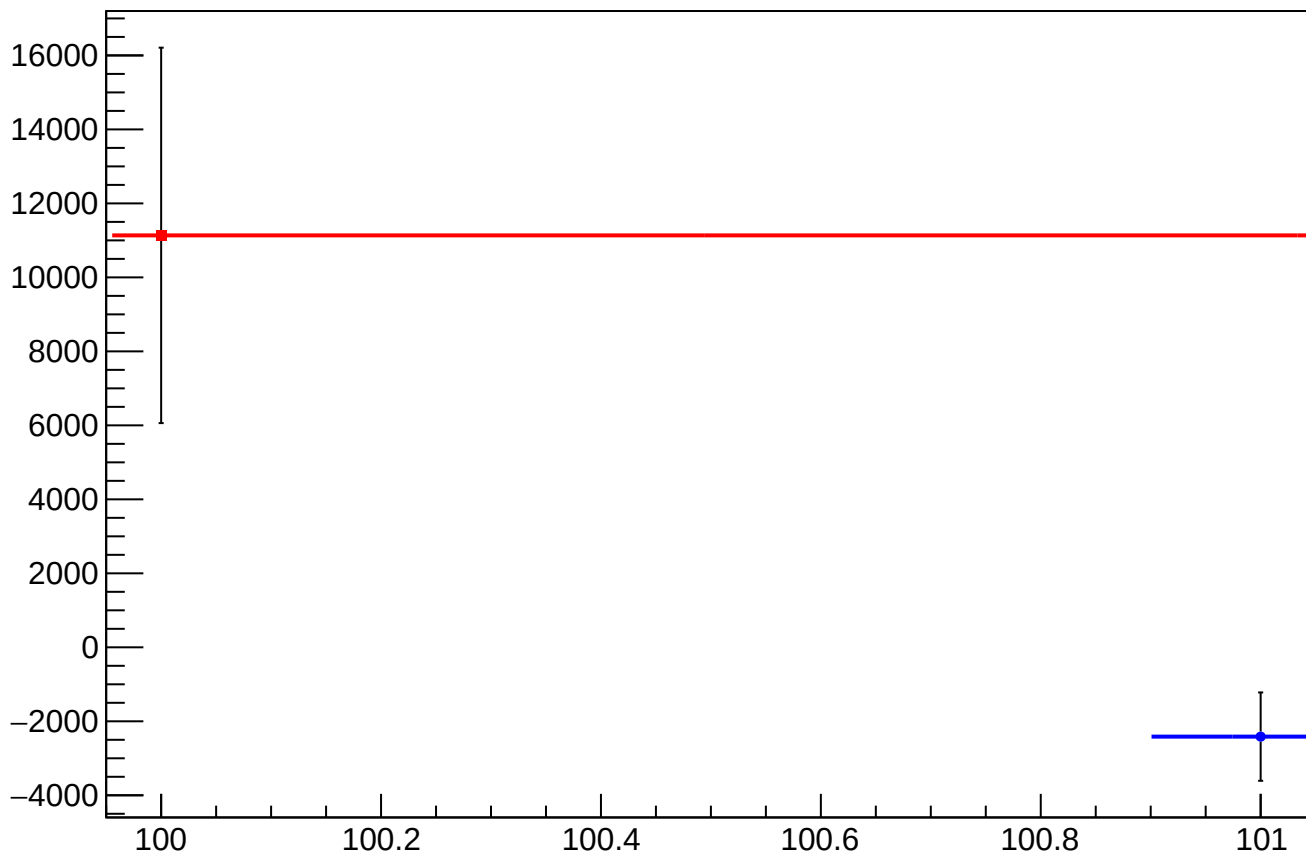
In: 111.330 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 114.408 $\pm$ 0.101  $\chi^2$ /NDF: 54709.3/1



asym\_sam\_3748\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2414.224 $\pm$ 1194.180  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11135.236 $\pm$ 5074.230  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

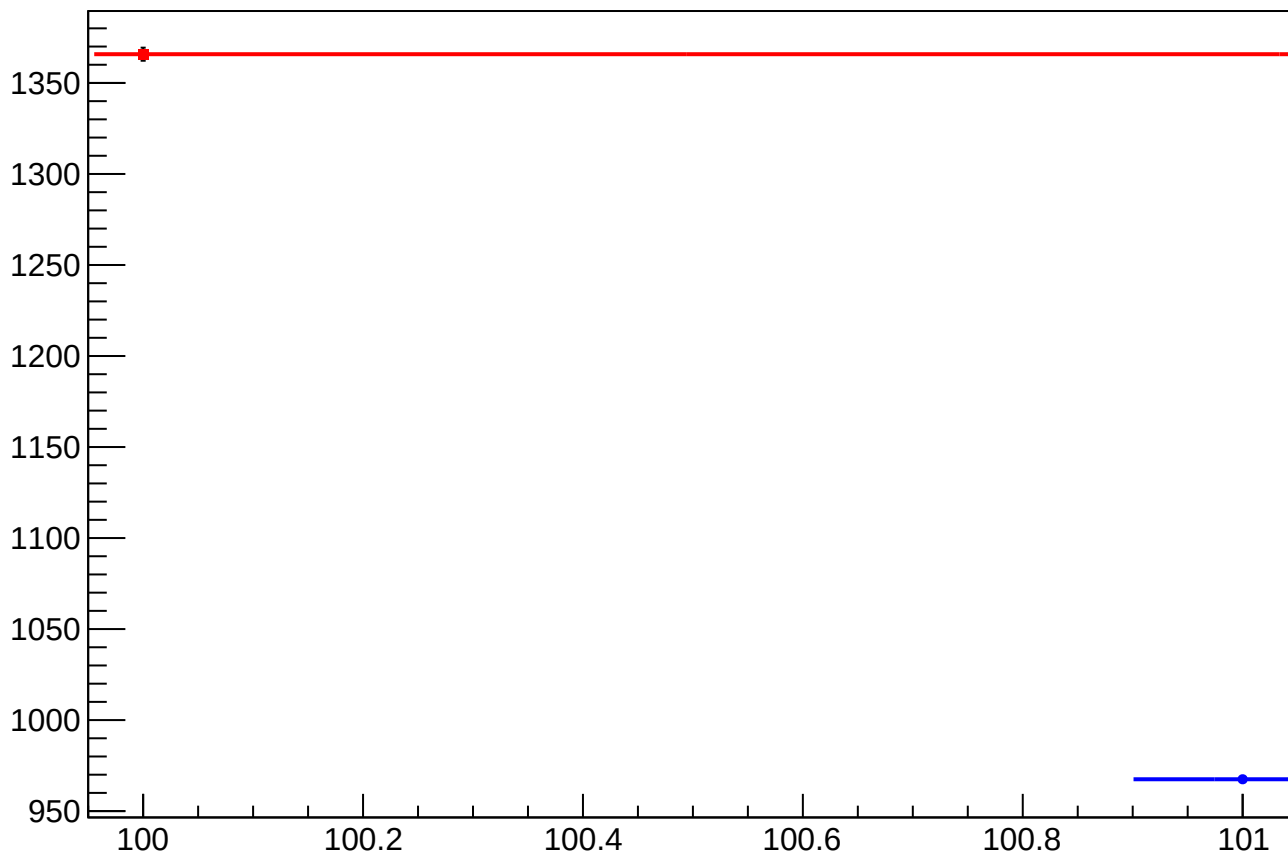
Right: -1703.159 $\pm$ 1162.422  $\chi^2$ /NDF: 6.8/1

In: -2414.224 $\pm$ 1194.180  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1703.159 $\pm$ 1162.422  $\chi^2$ /NDF: 6.8/1

asym\_sam\_3748\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 967.491 $\pm$ 0.844  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1365.794 $\pm$ 3.588  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

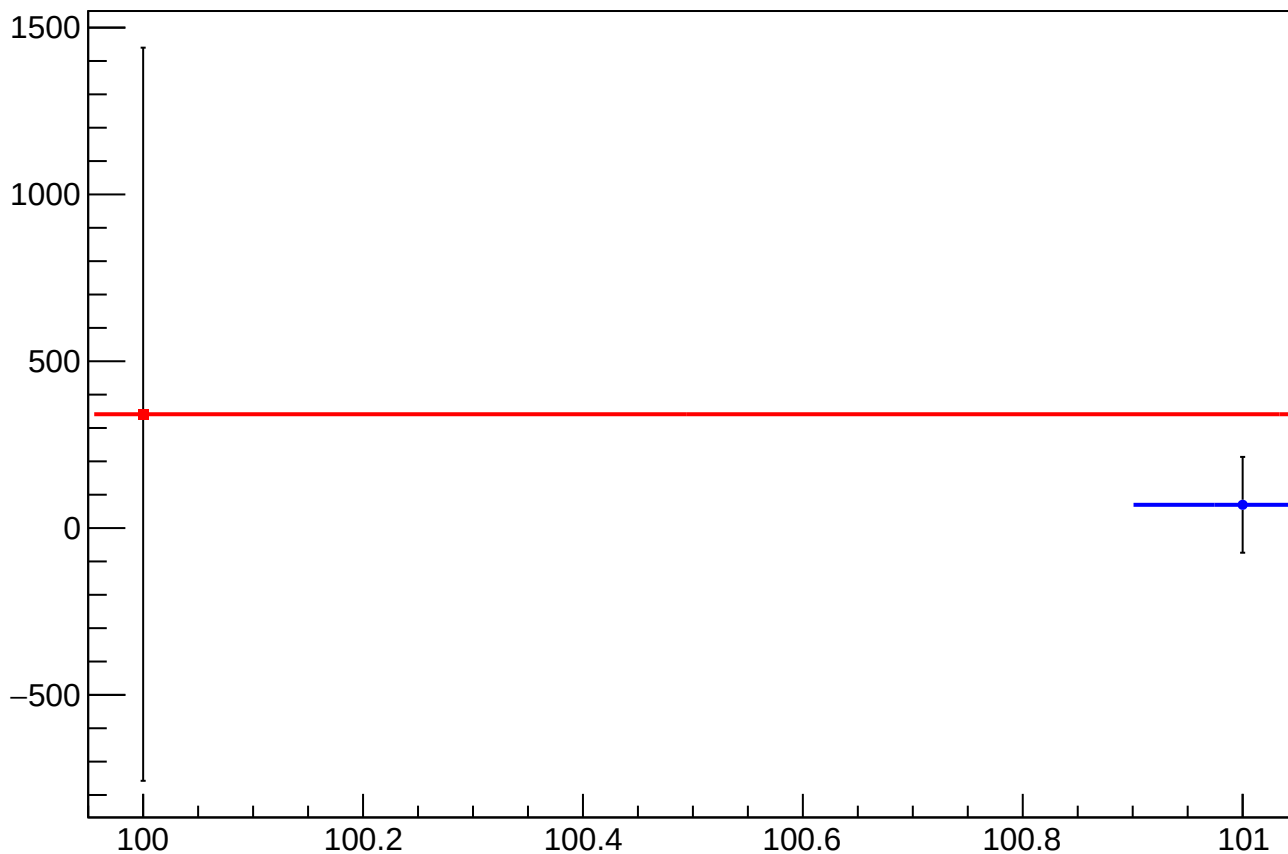
Right: 988.394 $\pm$ 0.822  $\chi^2$ /NDF: 11676.3/1

In: 967.491 $\pm$ 0.844  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 988.394 $\pm$ 0.822  $\chi^2$ /NDF: 11676.3/1

eigen\_dit\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: 69.714+/-143.598  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 341.210+/-1098.699  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

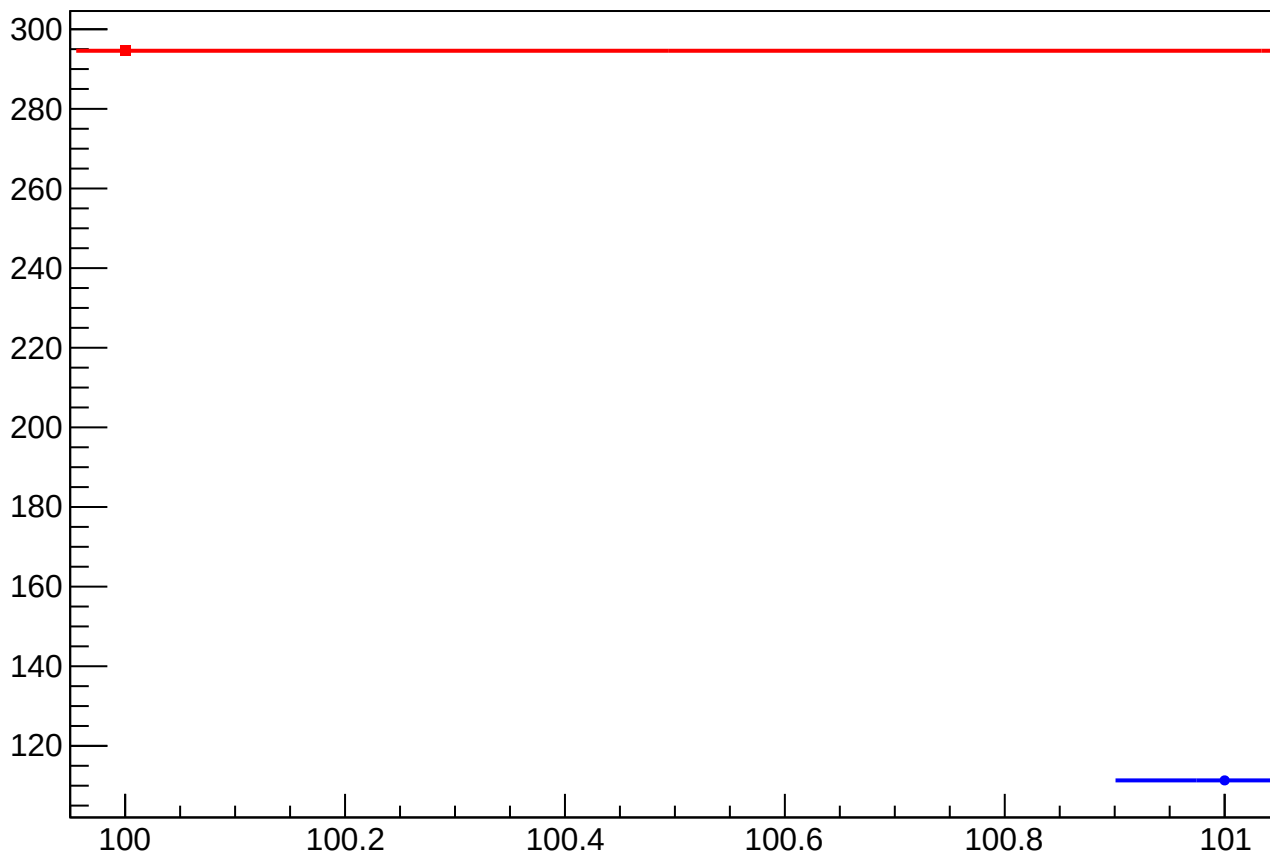
Right: 74.274+/-142.387  $\chi^2/\text{NDF}$ : 0.1/1

In: 69.714+/-143.598  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.274+/-142.387  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_dit\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 111.331 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 294.593 $\pm$ 0.777  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

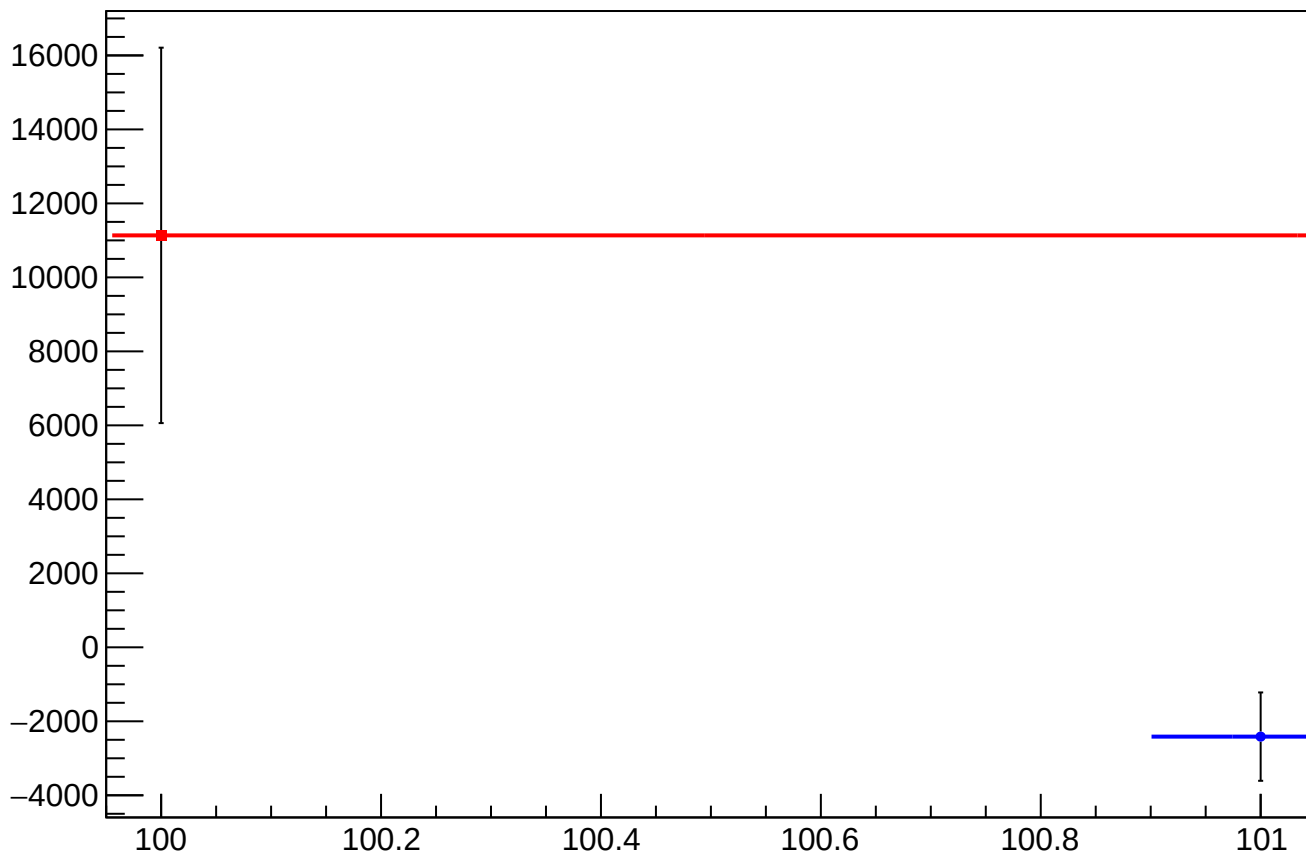
Right: 114.409 $\pm$ 0.101  $\chi^2$ /NDF: 54709.2/1

In: 111.331 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 114.409 $\pm$ 0.101  $\chi^2$ /NDF: 54709.2/1

asym\_sam\_3748\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2414.220+/-1194.177  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11135.206+/-5074.215  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

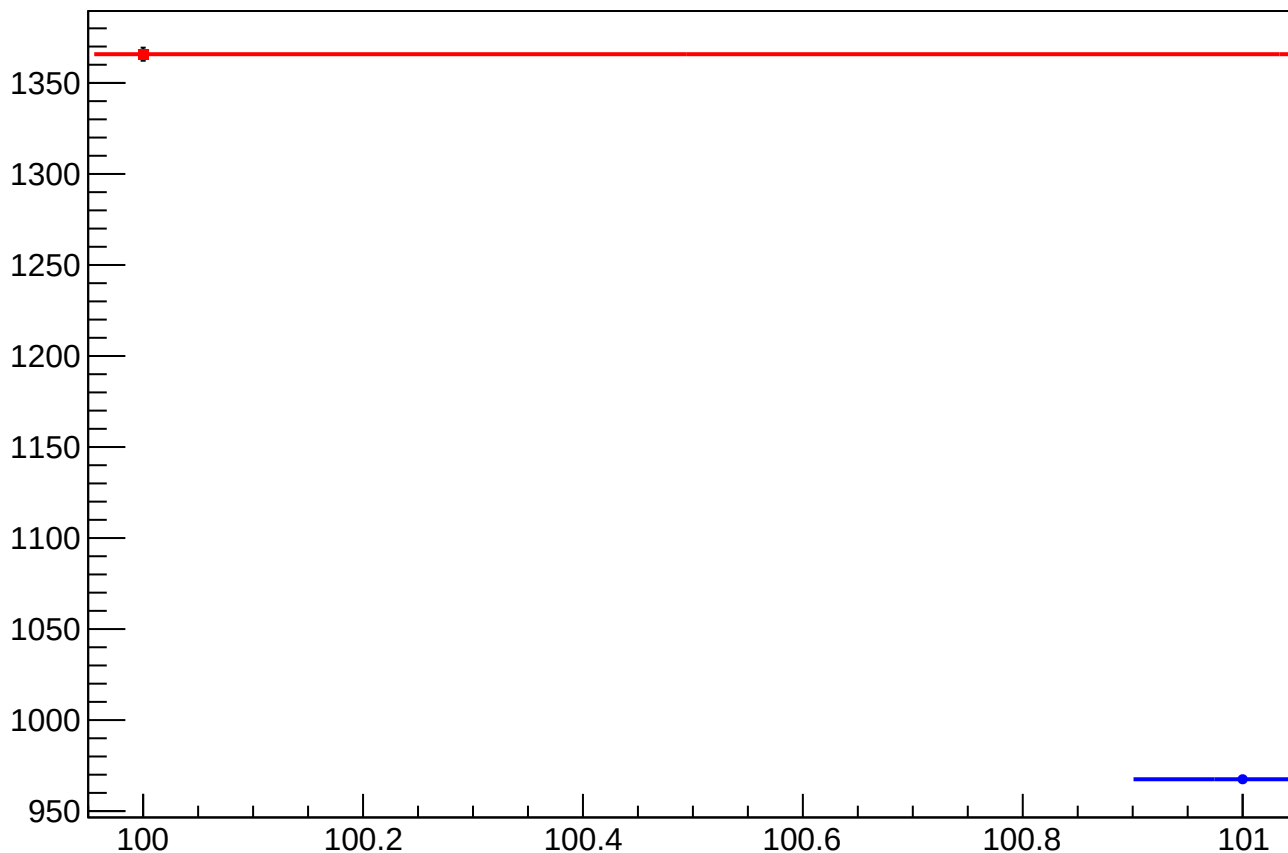
Right: -1703.156+/-1162.420  $\chi^2$ /NDF: 6.8/1

In: -2414.220+/-1194.177  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1703.156+/-1162.420  $\chi^2$ /NDF: 6.8/1

asym\_sam\_3748\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 967.489 $\pm$ 0.844  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1365.790 $\pm$ 3.588  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

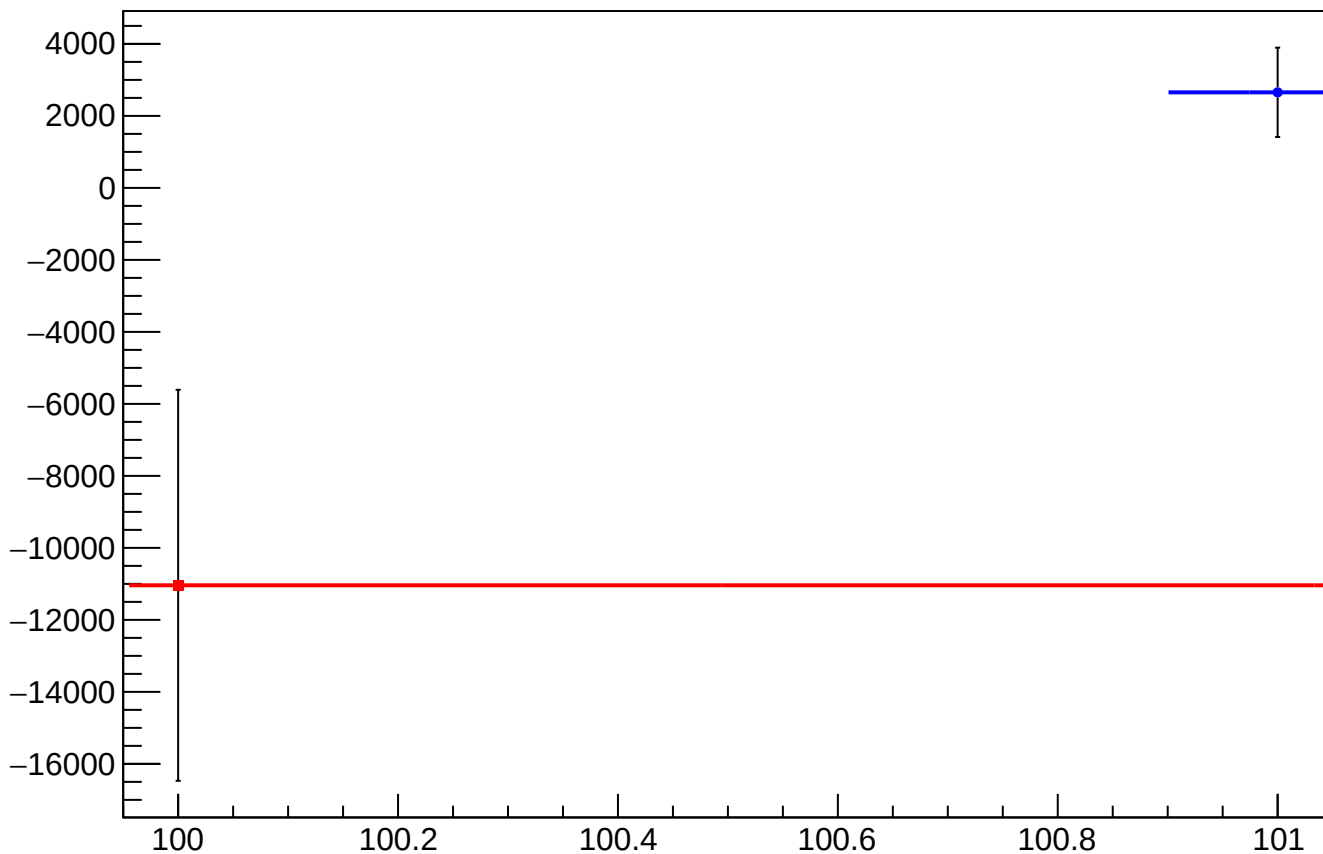
Right: 988.391 $\pm$ 0.822  $\chi^2/\text{NDF}$ : 11676.3/1

In: 967.489 $\pm$ 0.844  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 988.391 $\pm$ 0.822  $\chi^2/\text{NDF}$ : 11676.3/1

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In: 2654.255+/-1240.933  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11039.385+/-5430.845  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

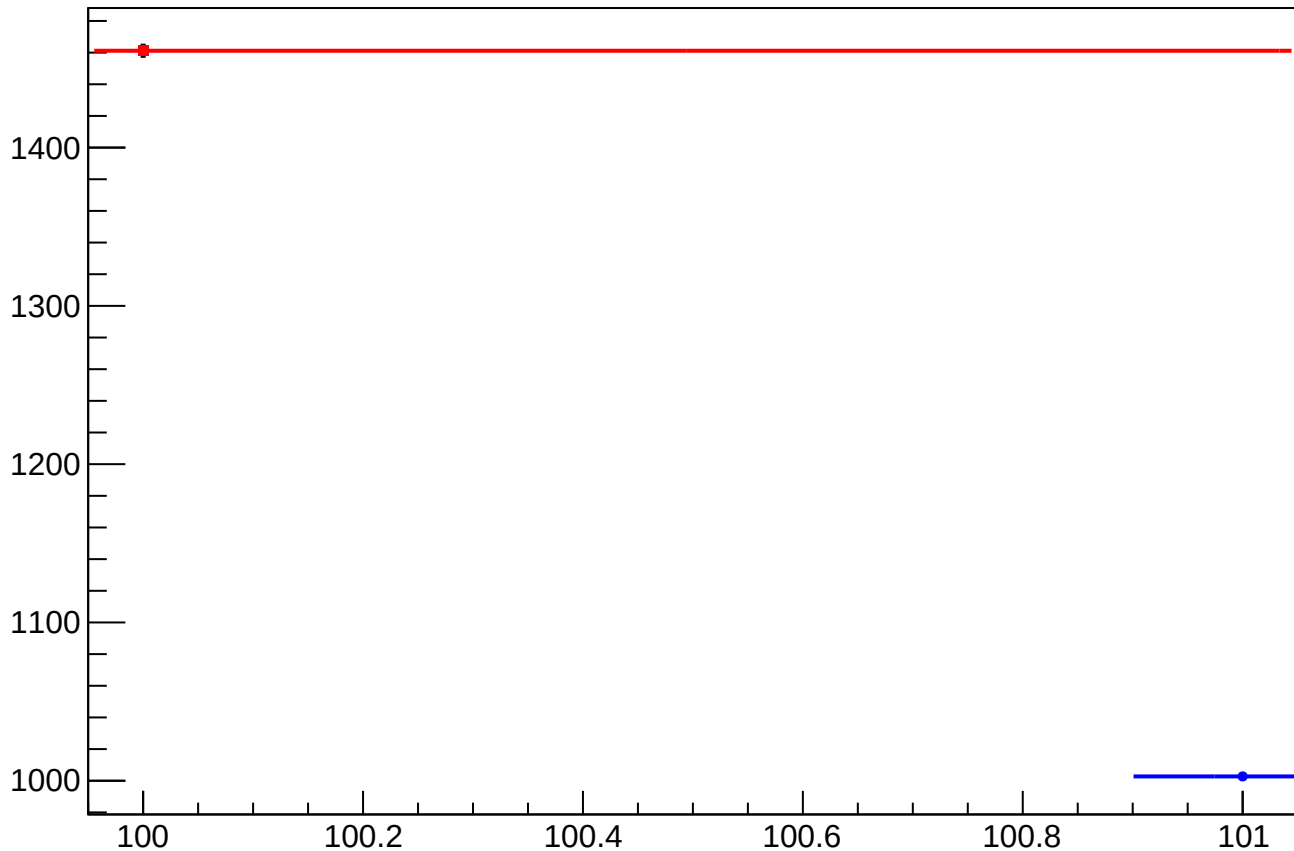
Right: 1974.774+/-1209.753  $\chi^2/\text{NDF}$ : 6.0/1

In: 2654.255+/-1240.933  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1974.774+/-1209.753  $\chi^2/\text{NDF}$ : 6.0/1

asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 1002.740 $\pm$ 0.877  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1461.176 $\pm$ 3.840  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1025.488 $\pm$ 0.855  $\chi^2$ /NDF: 13544.1/1

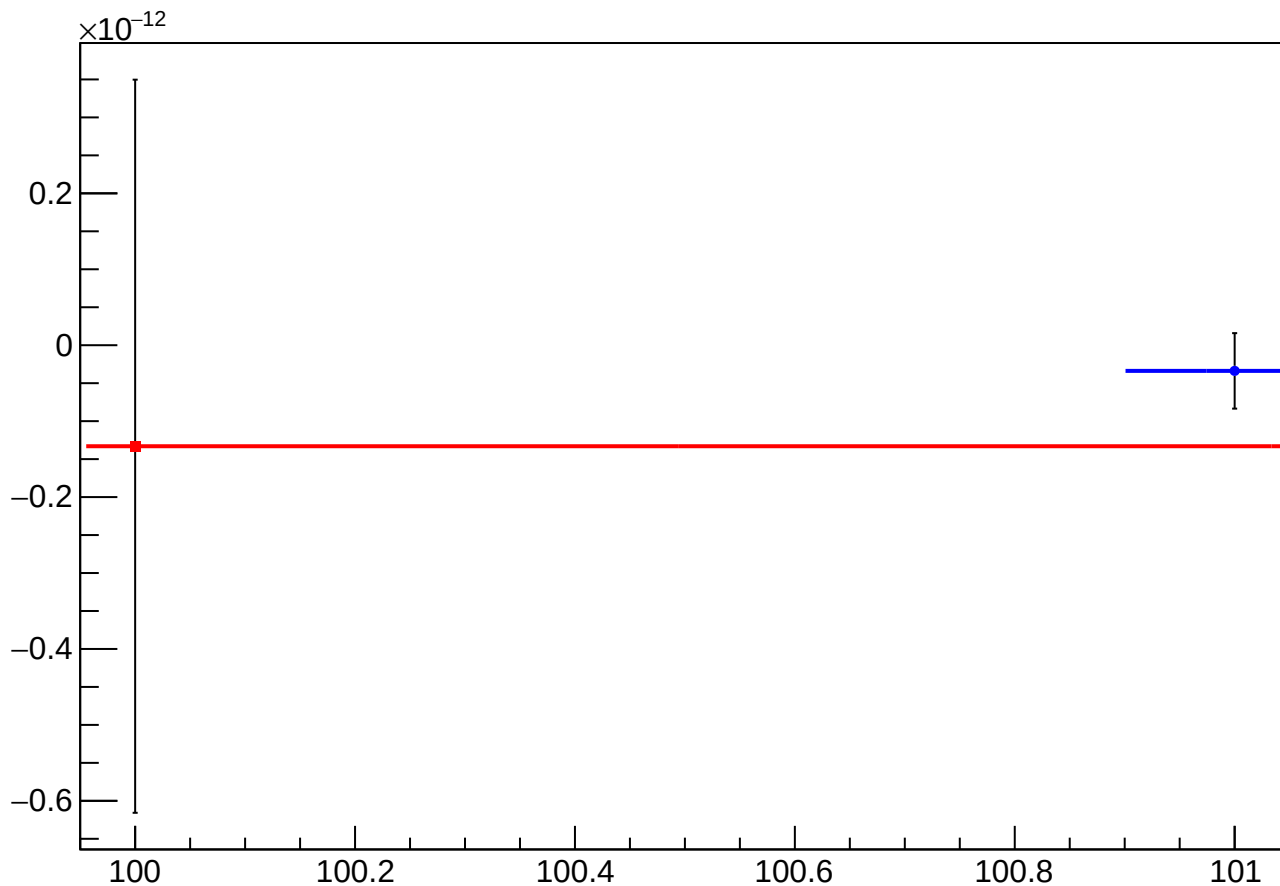
In: 1002.740 $\pm$ 0.877  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1025.488 $\pm$ 0.855  $\chi^2$ /NDF: 13544.1/1



asym\_sam\_3748\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

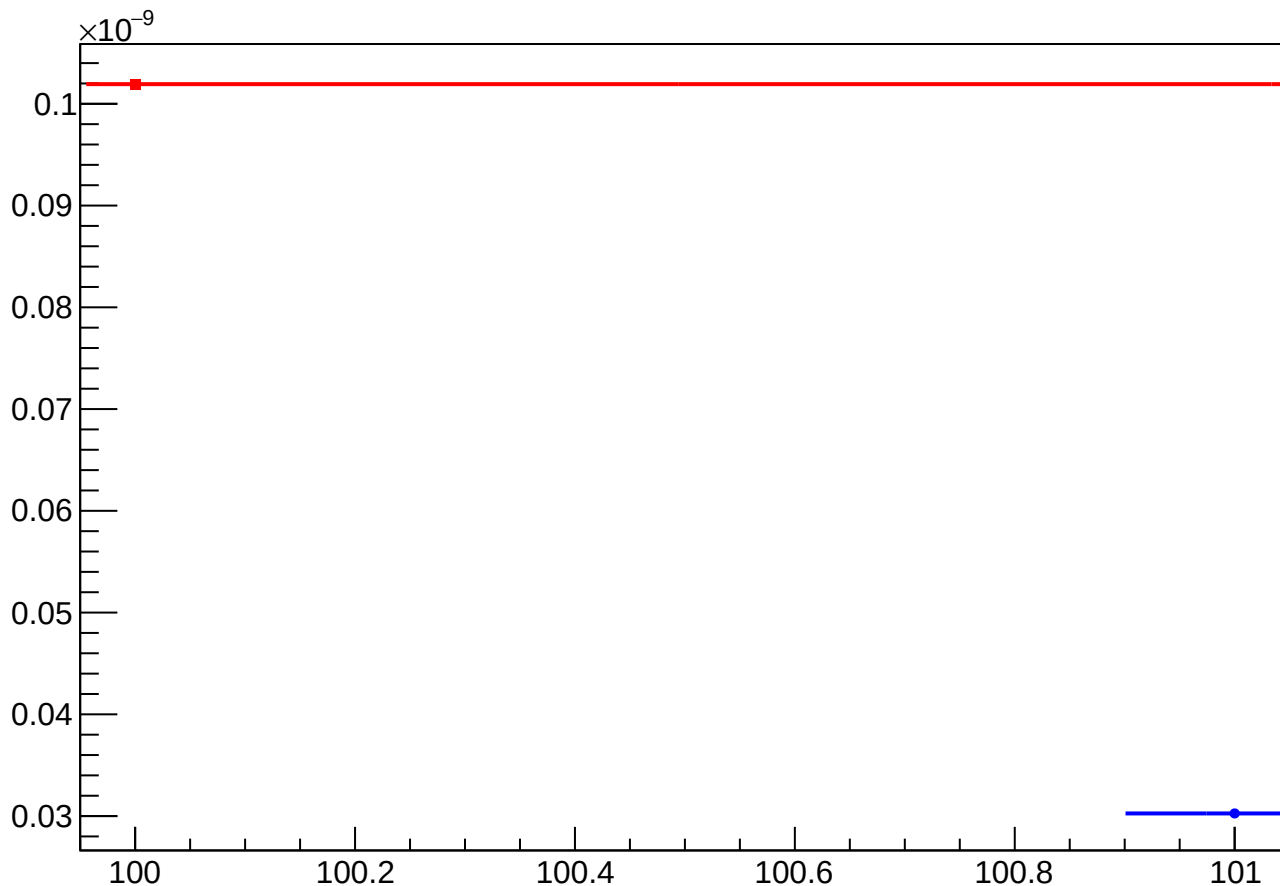
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.0/1

asym\_sam\_3748\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

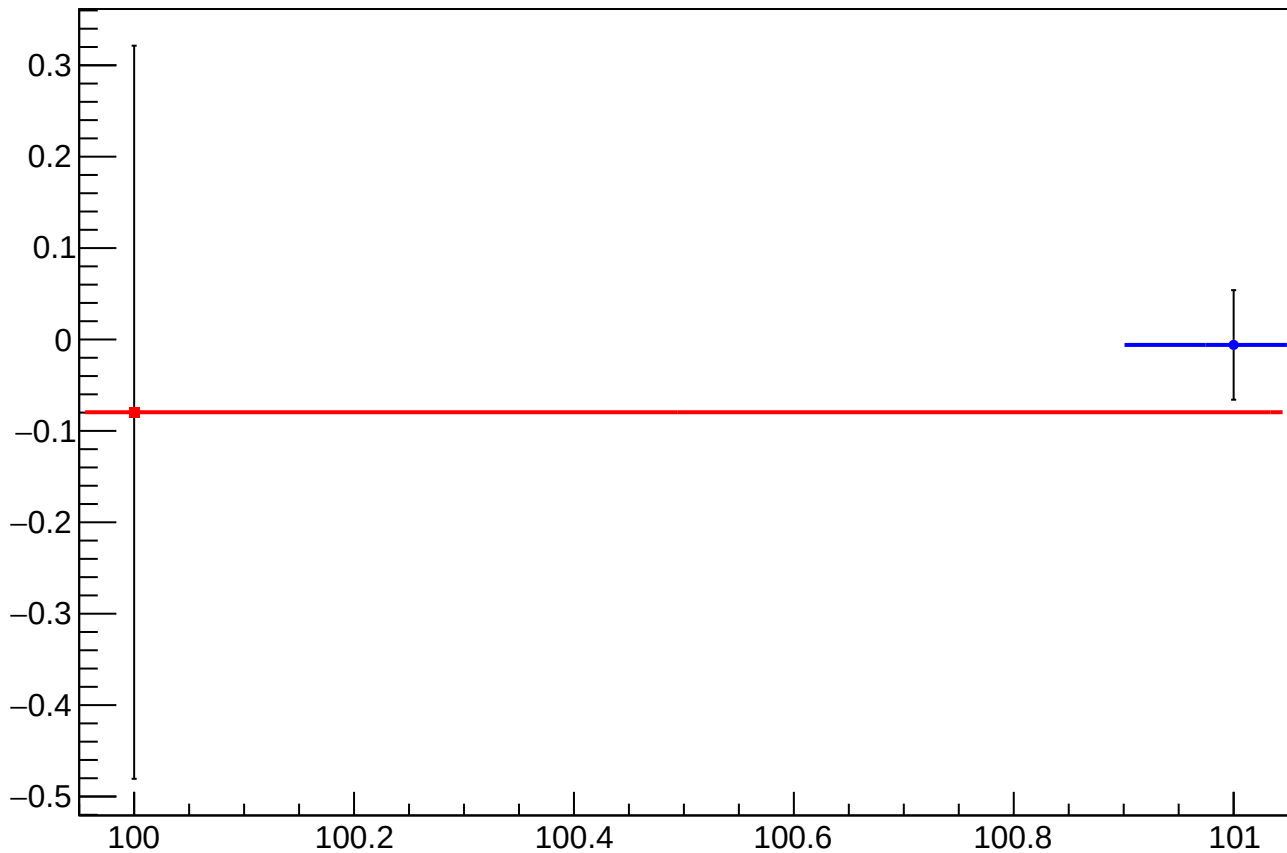
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 43628.2/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 43628.2/1

asym\_sam\_3748\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.006+/-0.060  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.080+/-0.401  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

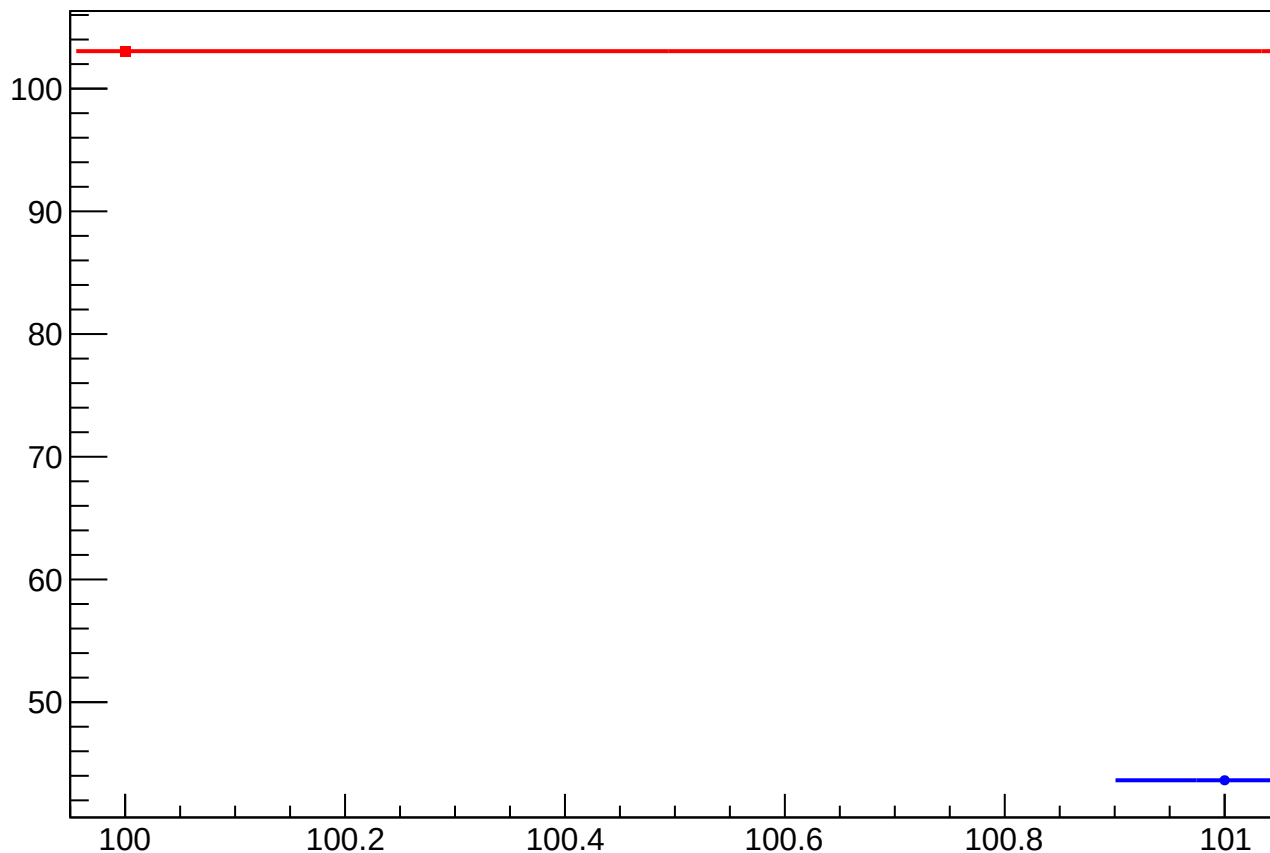
Right: -0.008+/-0.059  $\chi^2$ /NDF: 0.0/1

In: -0.006+/-0.060  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.008+/-0.059  $\chi^2$ /NDF: 0.0/1

asym\_sam\_3748\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 43.636 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.054 $\pm$ 0.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

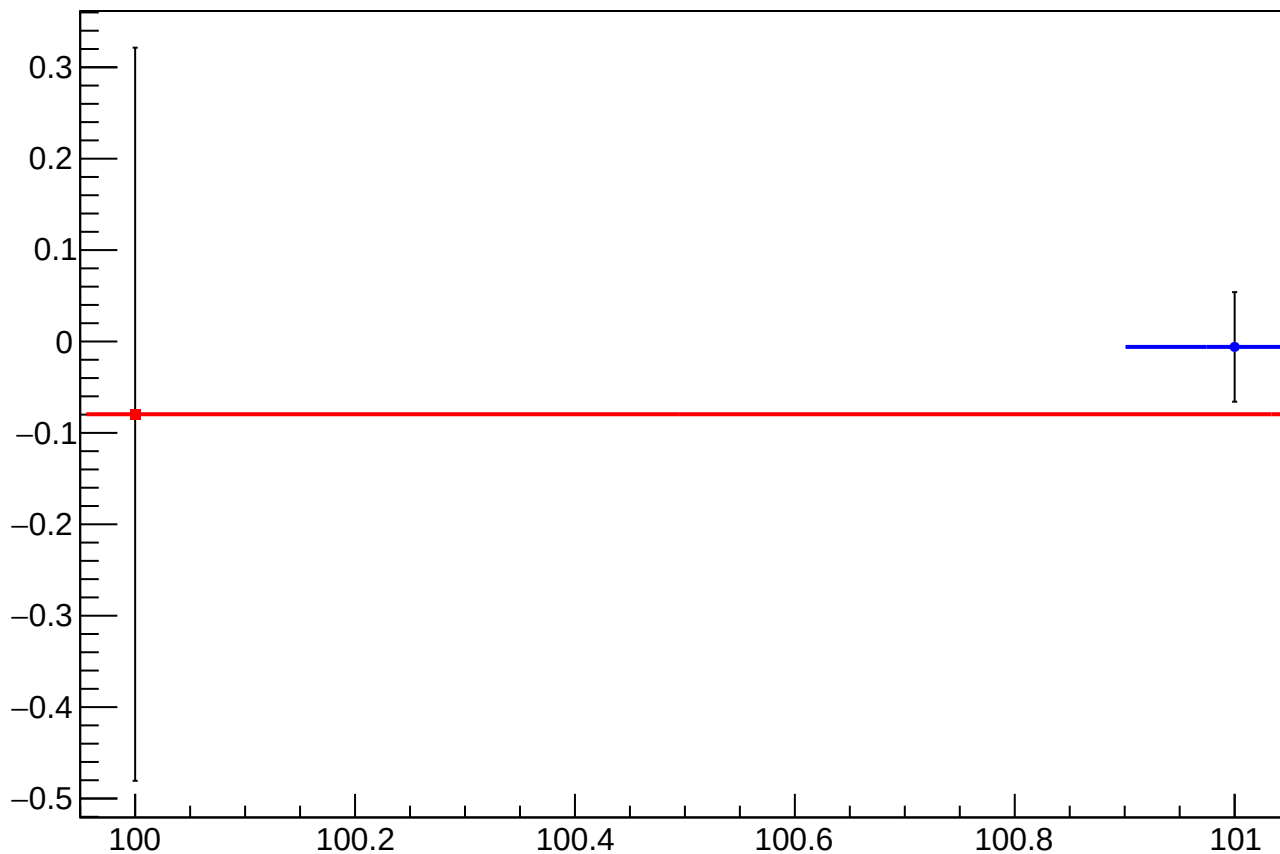
Right: 44.934 $\pm$ 0.042  $\chi^2$ /NDF: 42946.1/1

In: 43.636 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.934 $\pm$ 0.042  $\chi^2$ /NDF: 42946.1/1

asym\_sam\_3748\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.006 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.080 $\pm$ 0.401  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

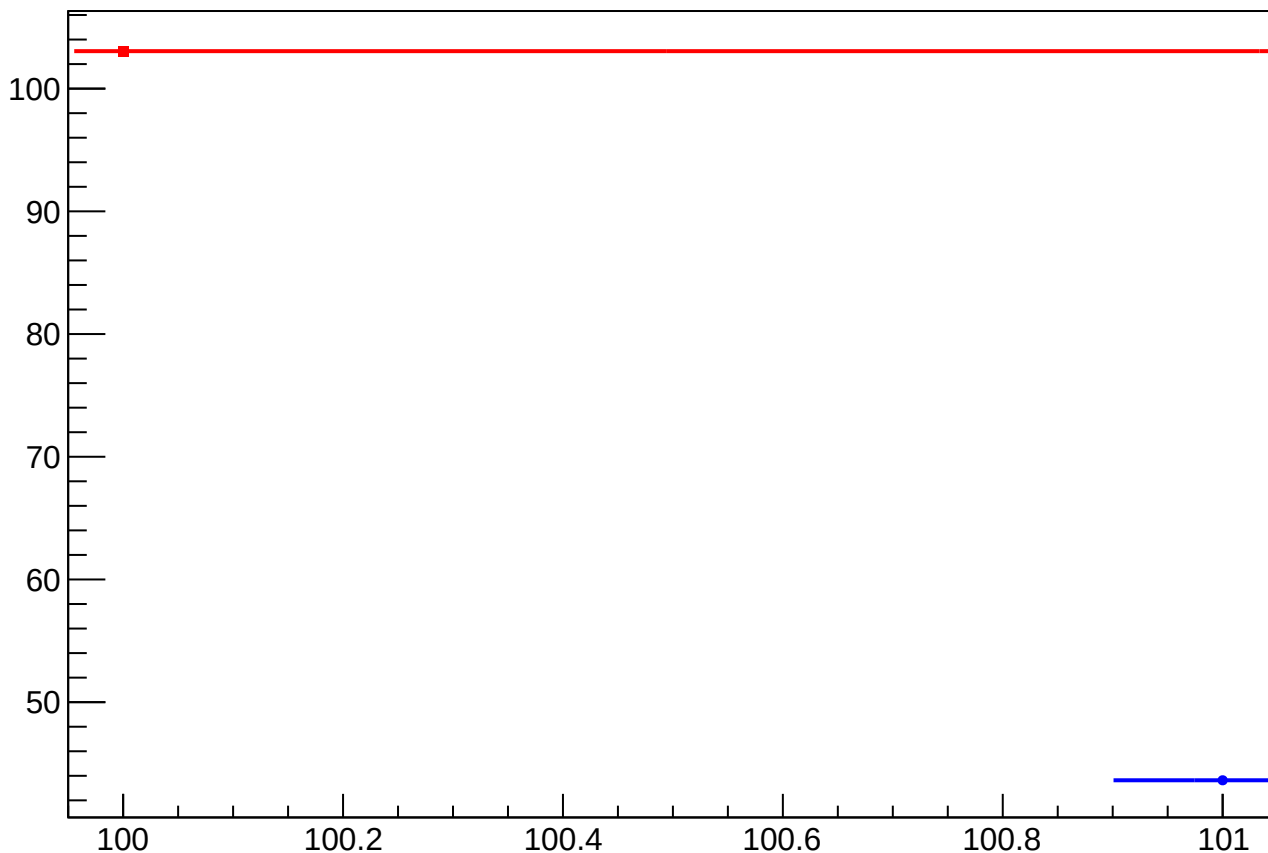
Right: -0.008 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.006 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.008 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_3748\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 43.636 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.054 $\pm$ 0.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

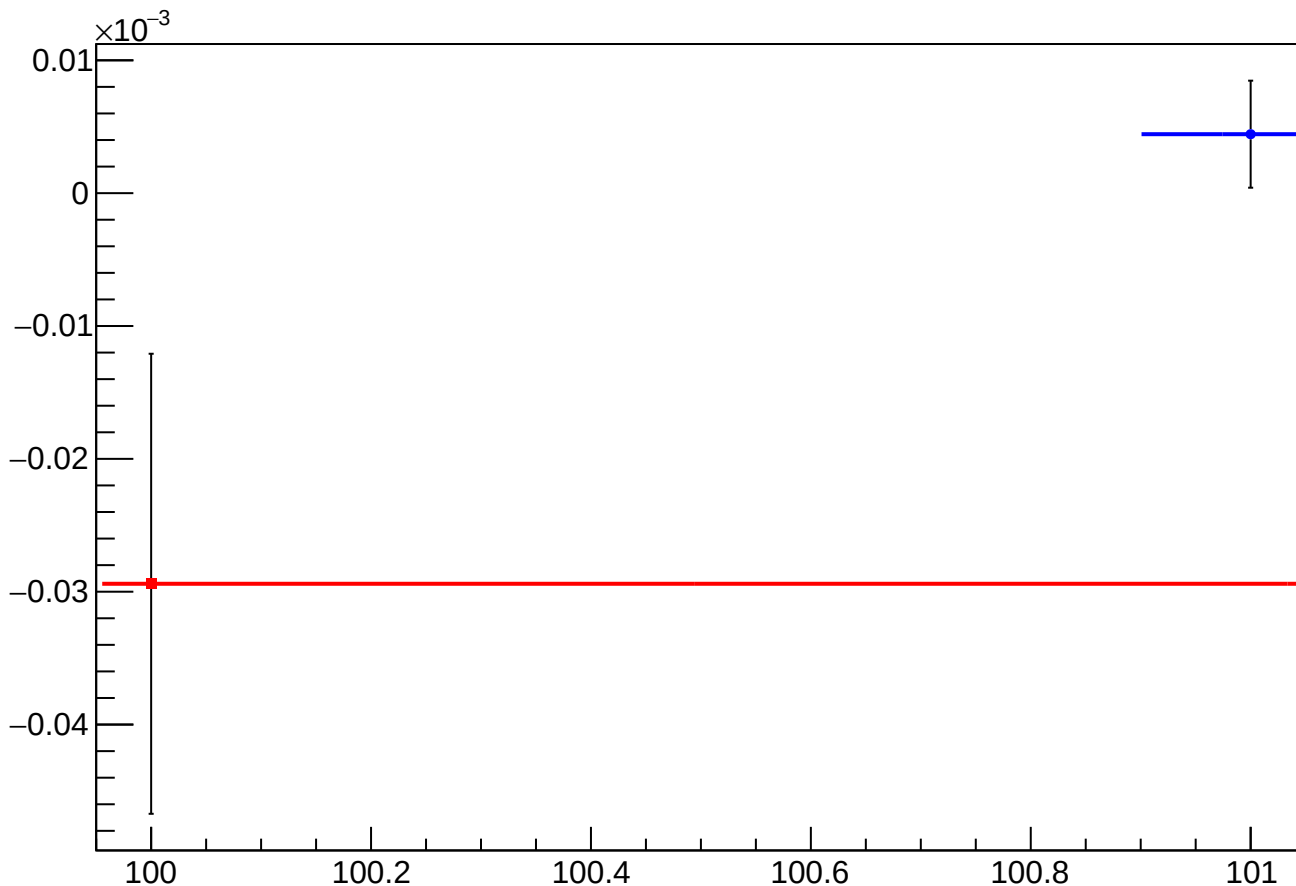
Right: 44.934 $\pm$ 0.042  $\chi^2$ /NDF: 42946.1/1

In: 43.636 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.934 $\pm$ 0.042  $\chi^2$ /NDF: 42946.1/1

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

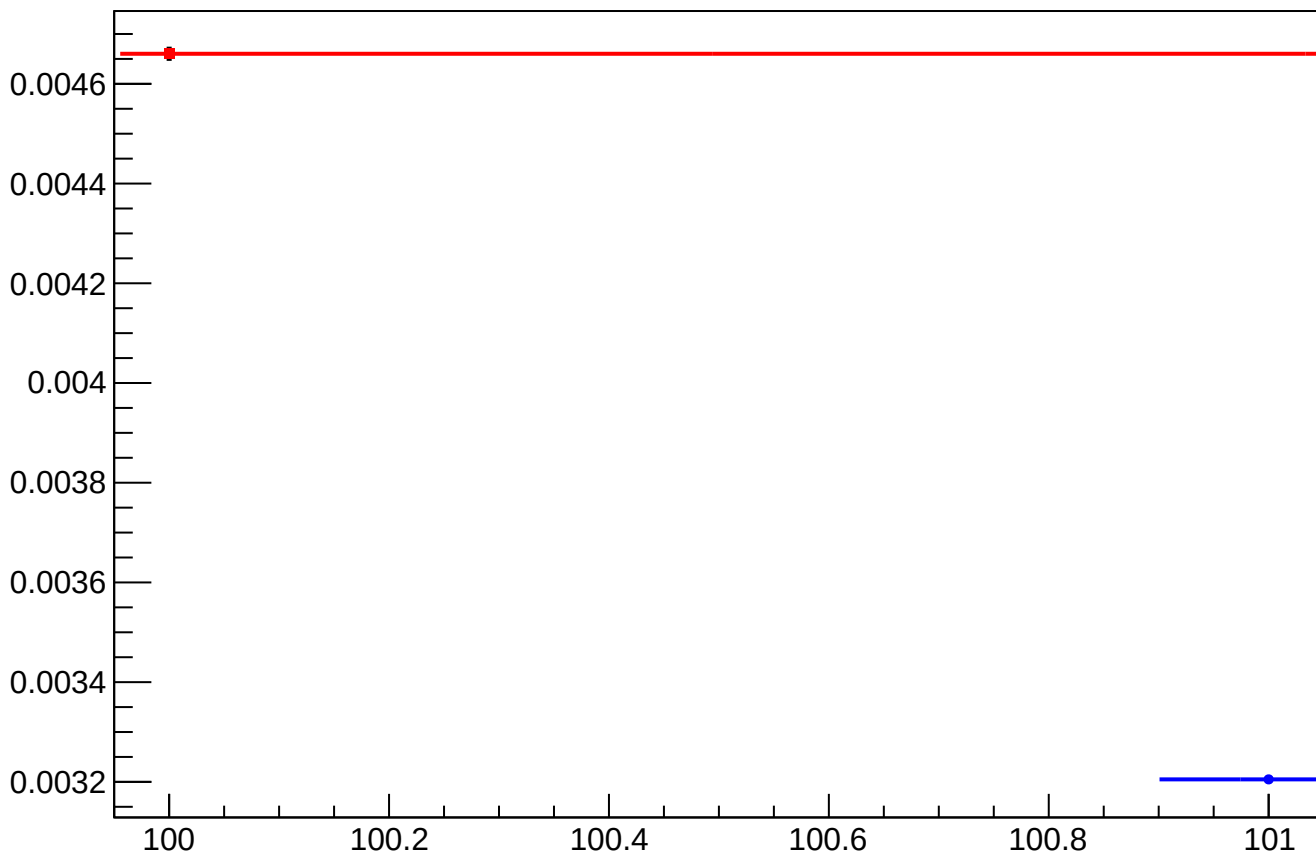
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.6/1

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 13403.7/1

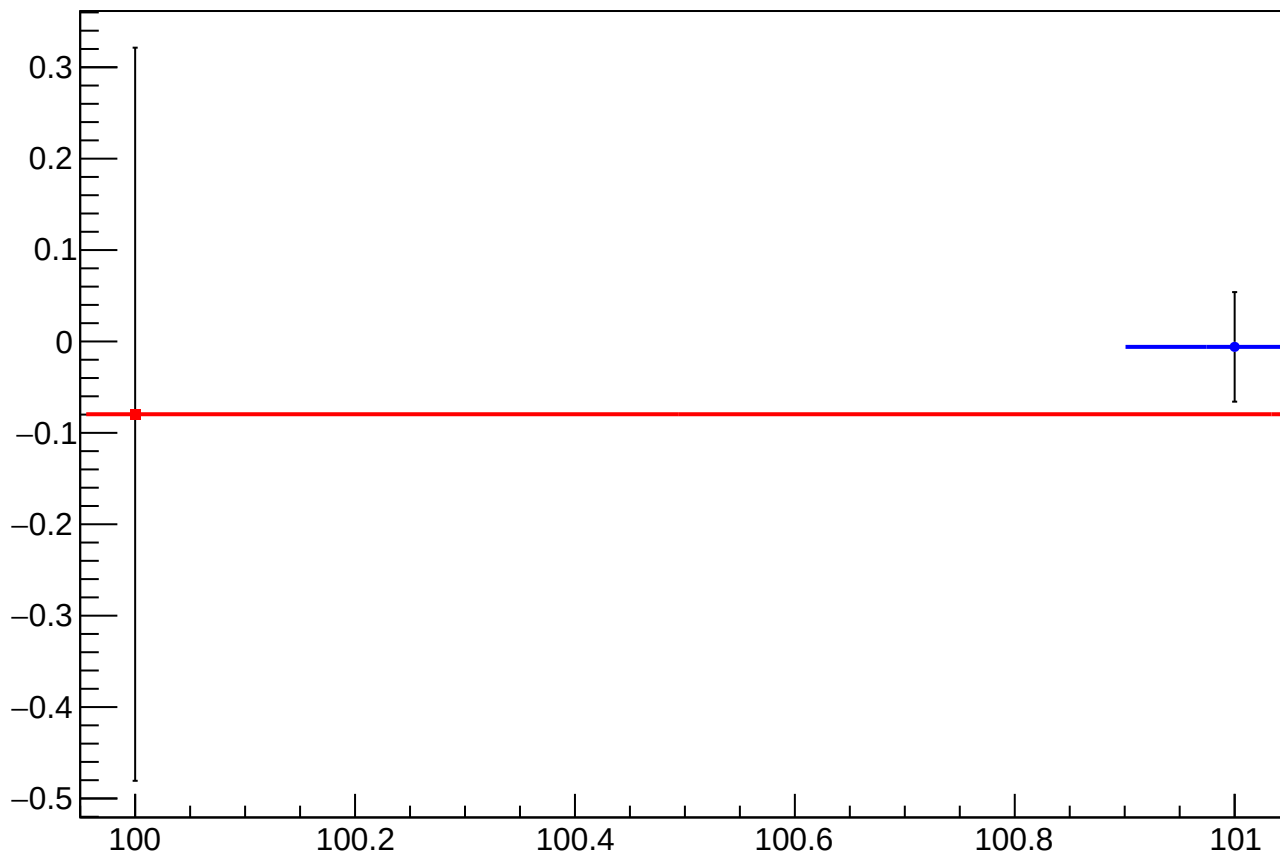
In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 13403.7/1



asym\_sam\_3748\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.006 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.080 $\pm$ 0.401  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

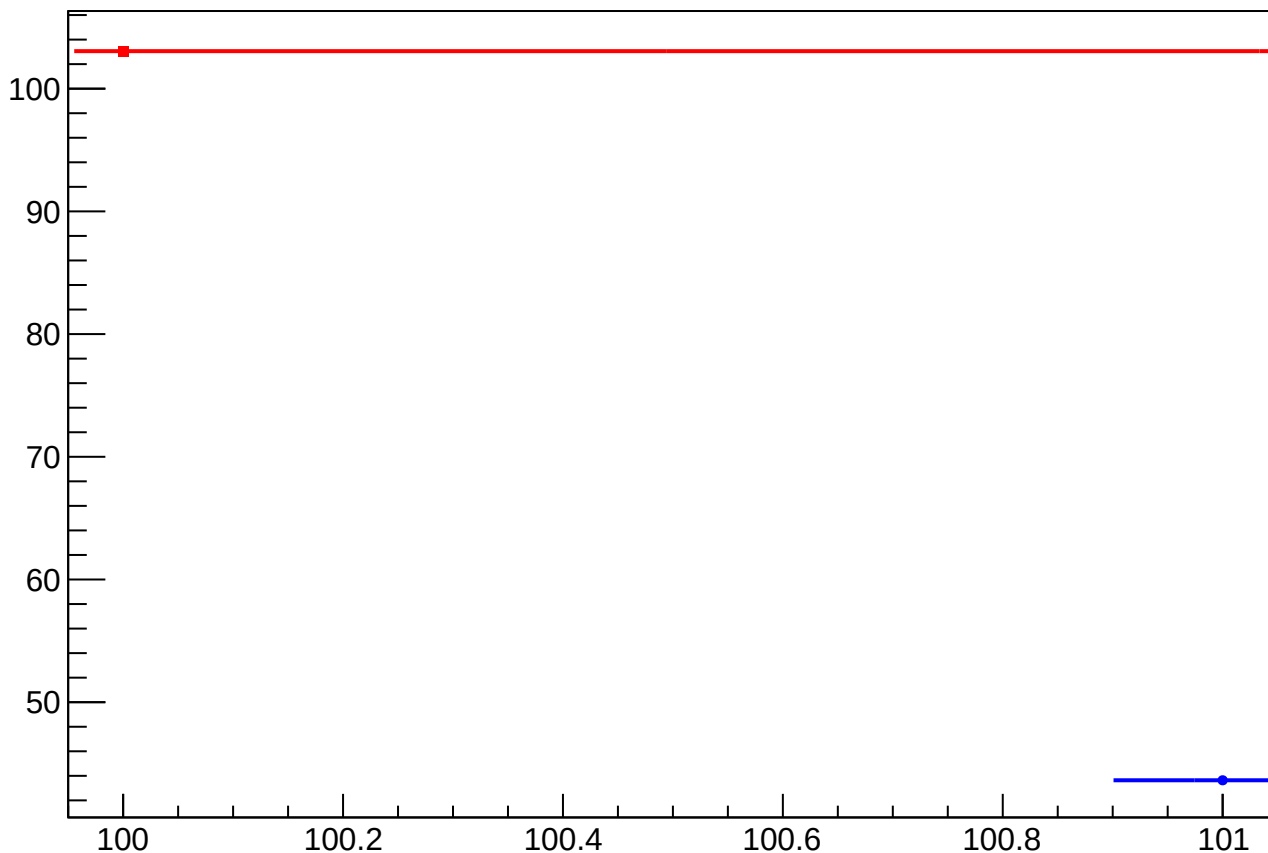
Right: -0.008 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.006 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.008 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 43.637 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.058 $\pm$ 0.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

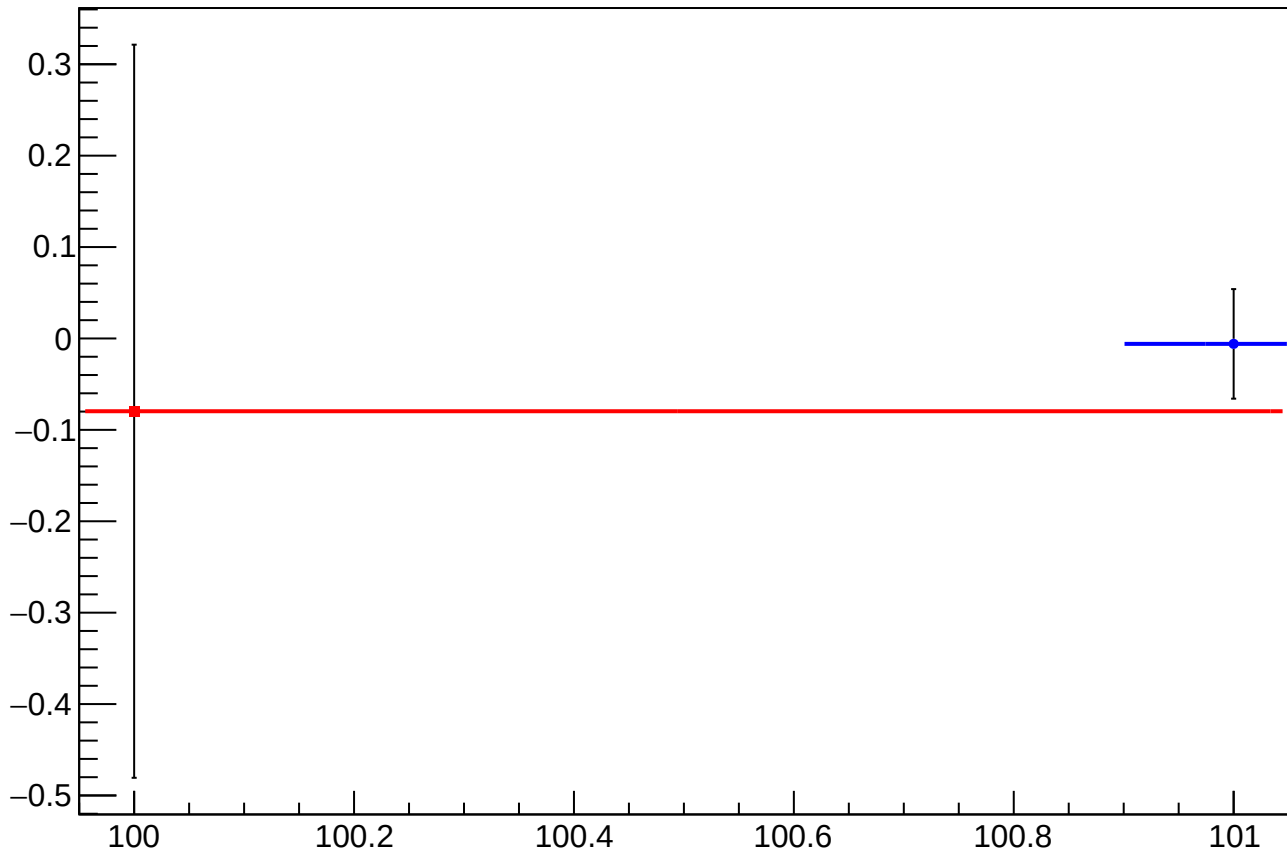
Right: 44.936 $\pm$ 0.042  $\chi^2$ /NDF: 42945.8/1

In: 43.637 $\pm$ 0.042  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.936 $\pm$ 0.042  $\chi^2$ /NDF: 42945.8/1

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.006+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.080+/-0.401  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

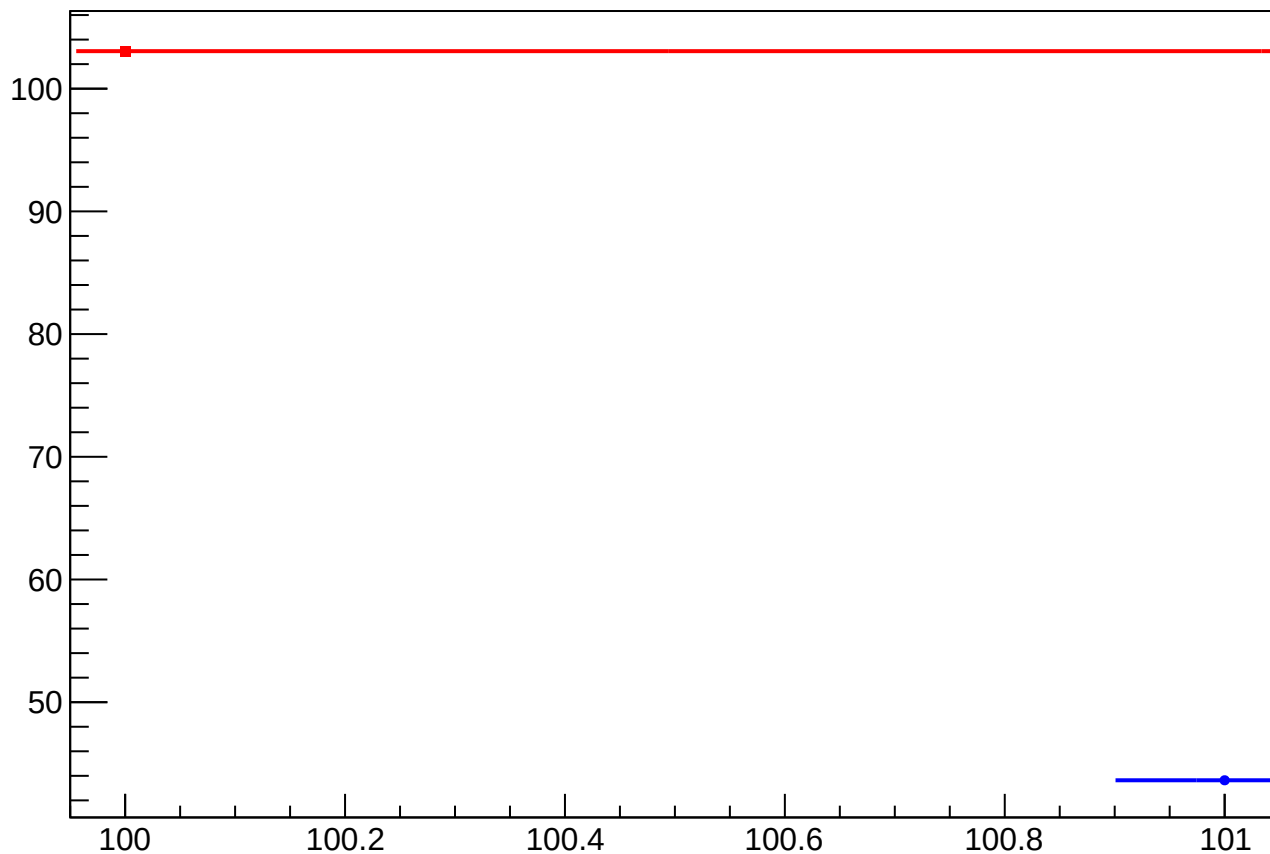
Right: -0.008+/-0.059  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.006+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.008+/-0.059  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_3748\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 43.637+/-0.042  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 103.058+/-0.284  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

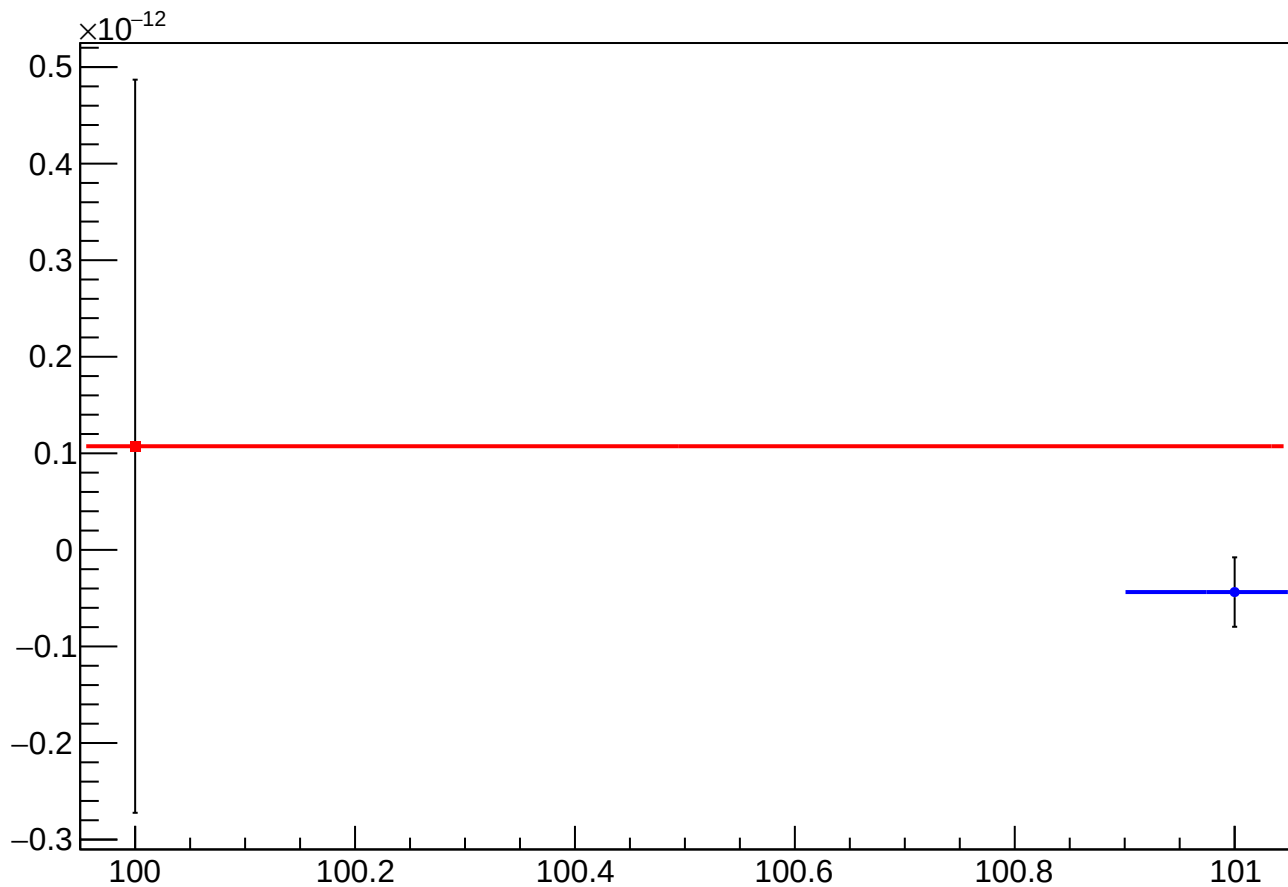
Right: 44.936+/-0.042  $\chi^2$ /NDF: 42945.8/1

In: 43.637+/-0.042  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 44.936+/-0.042  $\chi^2$ /NDF: 42945.8/1

asym\_sam\_3748\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

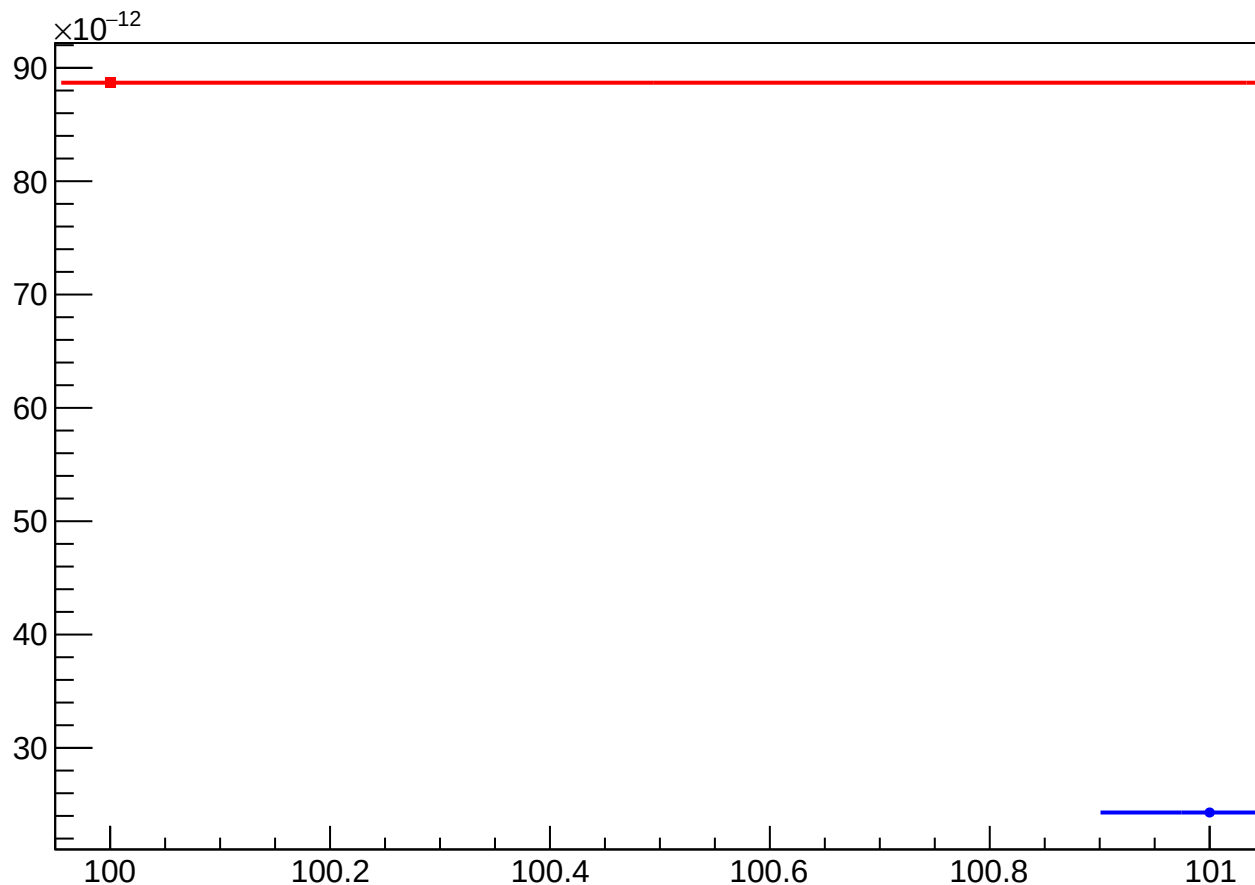
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

asym\_sam\_3748\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

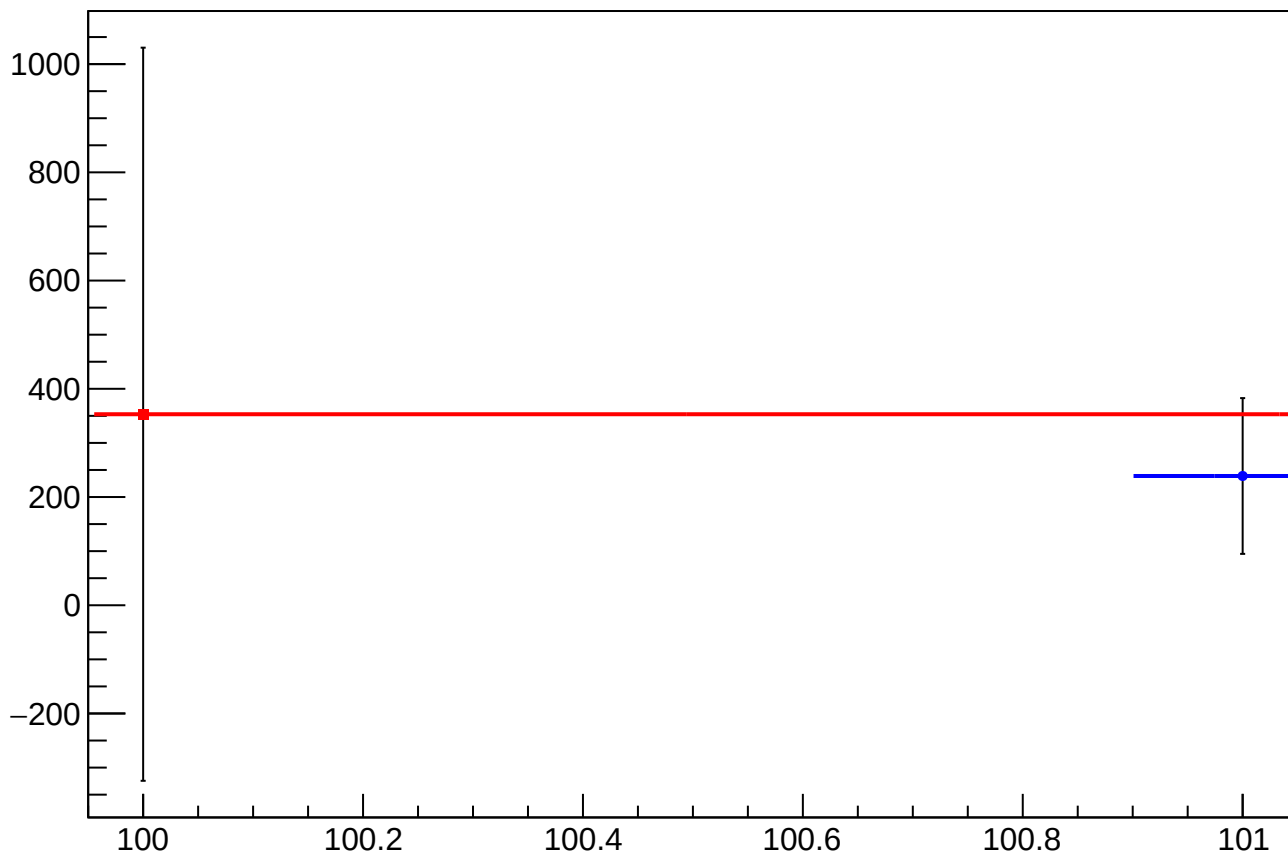
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 57030.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 57030.8/1

reg\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 238.871+/-143.927  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 352.995+/-677.389  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

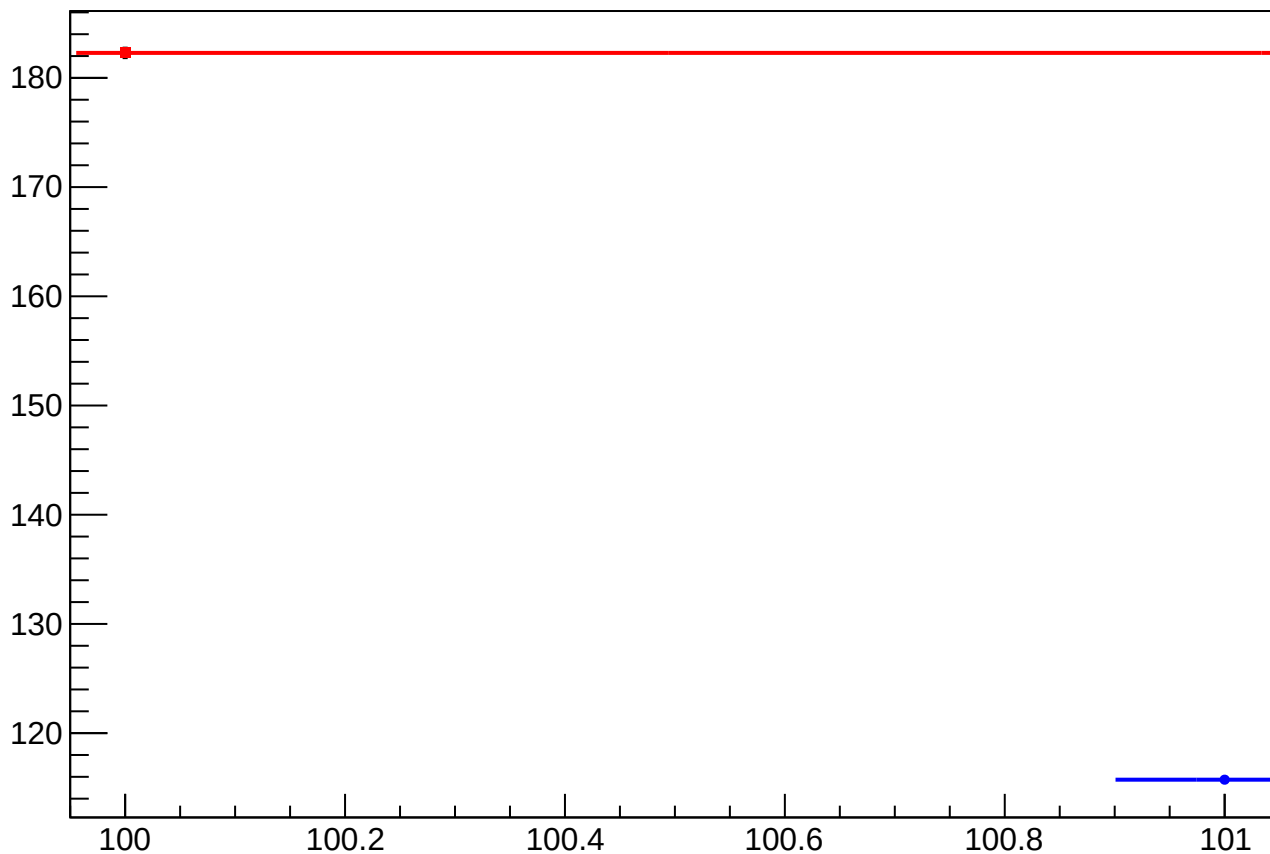
Right: 243.801+/-140.785  $\chi^2/\text{NDF}$ : 0.0/1

In: 238.871+/-143.927  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 243.801+/-140.785  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 115.738 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 182.288 $\pm$ 0.479  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 118.613 $\pm$ 0.100  $\chi^2$ /NDF: 18470.4/1

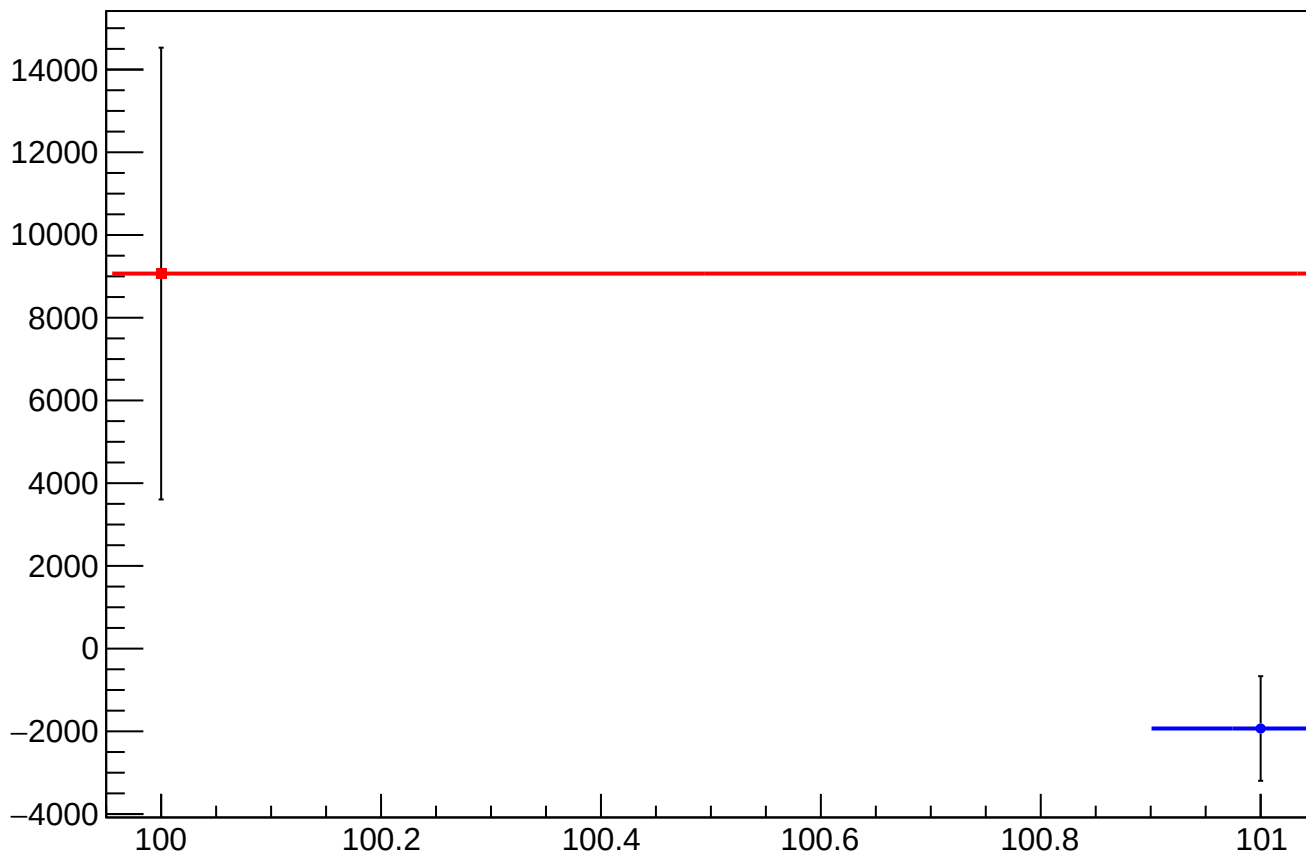
In: 115.738 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.613 $\pm$ 0.100  $\chi^2$ /NDF: 18470.4/1



asym\_sam\_1526\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1931.330+/-1264.384  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 9067.487+/-5461.626  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

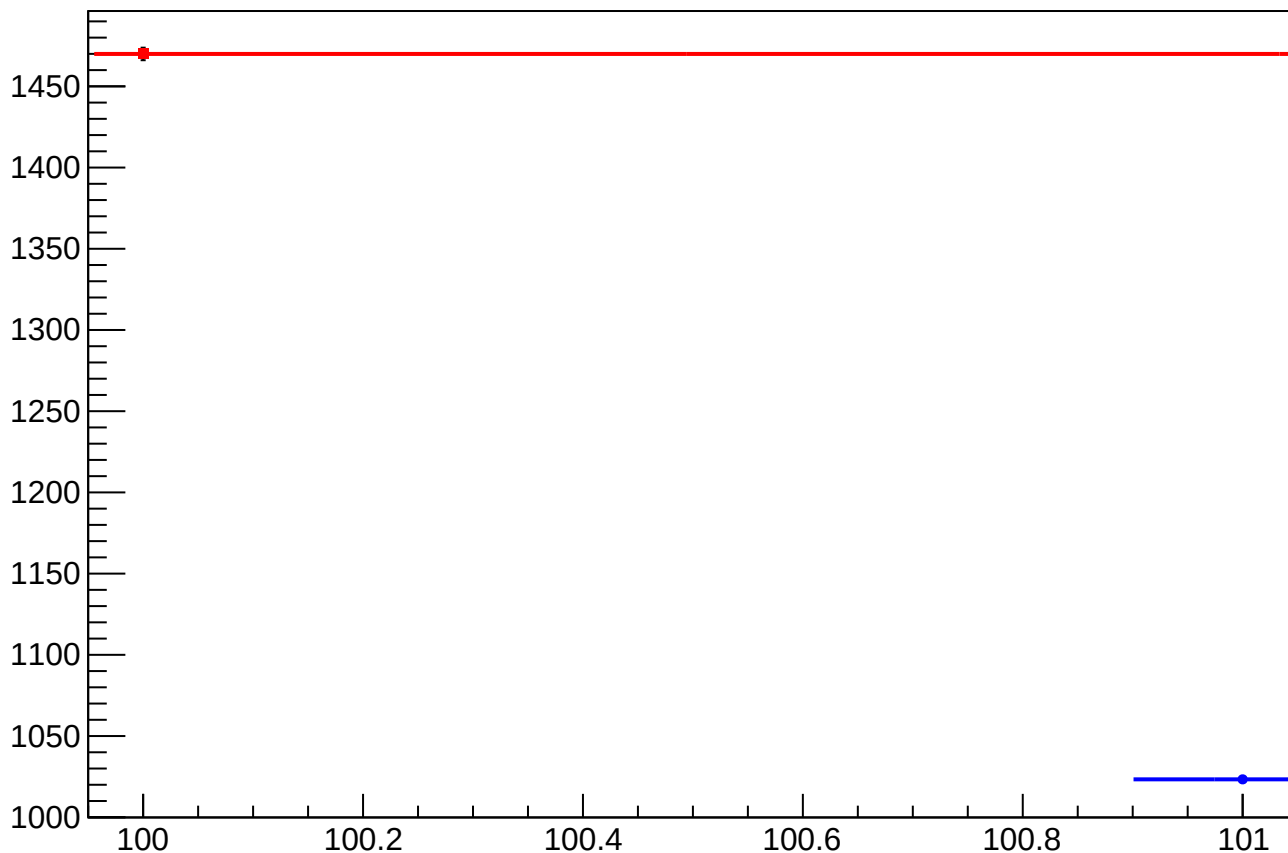
Right: -1371.847+/-1231.806  $\chi^2$ /NDF: 3.8/1

In: -1931.330+/-1264.384  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1371.847+/-1231.806  $\chi^2$ /NDF: 3.8/1

asym\_sam\_1526\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1023.336 $\pm$ 0.894  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1469.951 $\pm$ 3.862  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

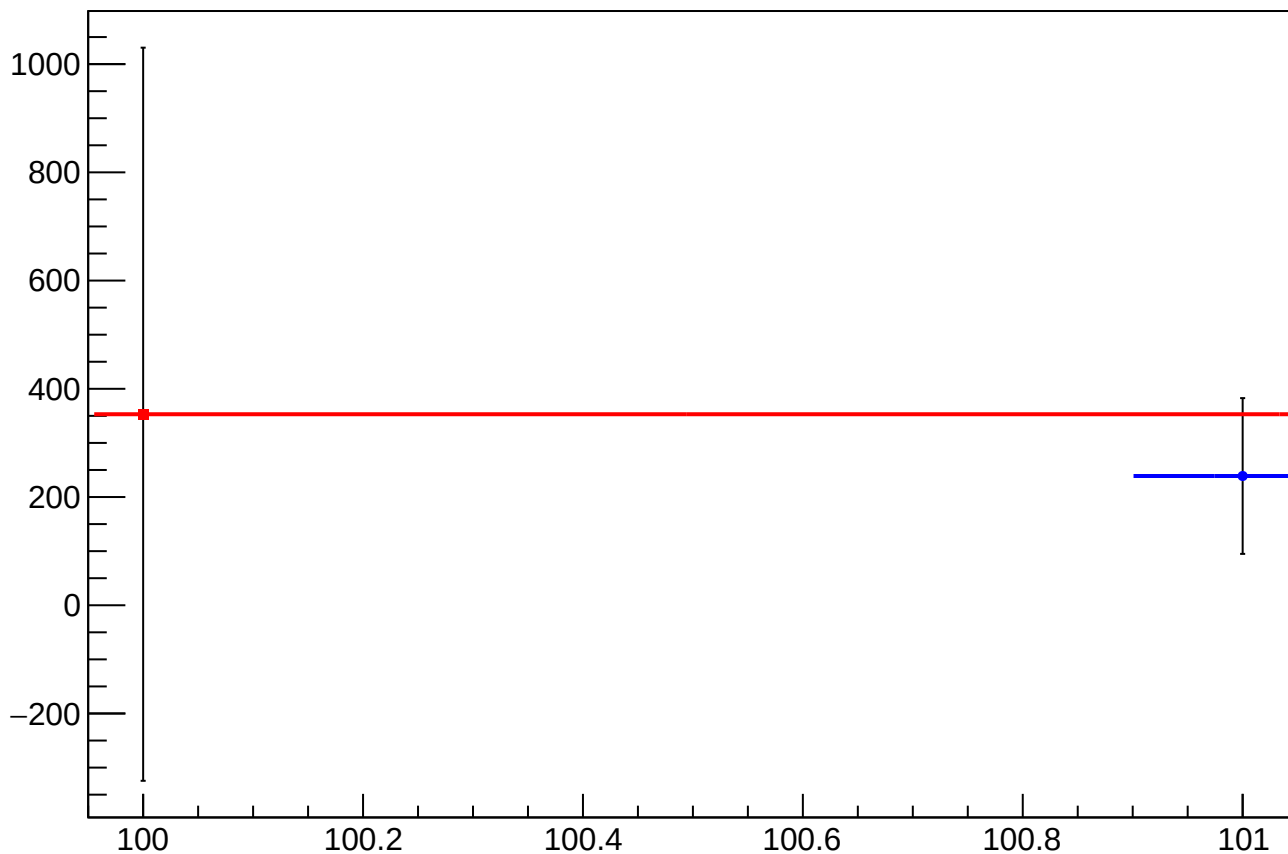
Right: 1046.054 $\pm$ 0.871  $\chi^2$ /NDF: 12693.5/1

In: 1023.336 $\pm$ 0.894  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1046.054 $\pm$ 0.871  $\chi^2$ /NDF: 12693.5/1

cor\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 238.861 $\pm$ 143.927  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 353.005 $\pm$ 677.389  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

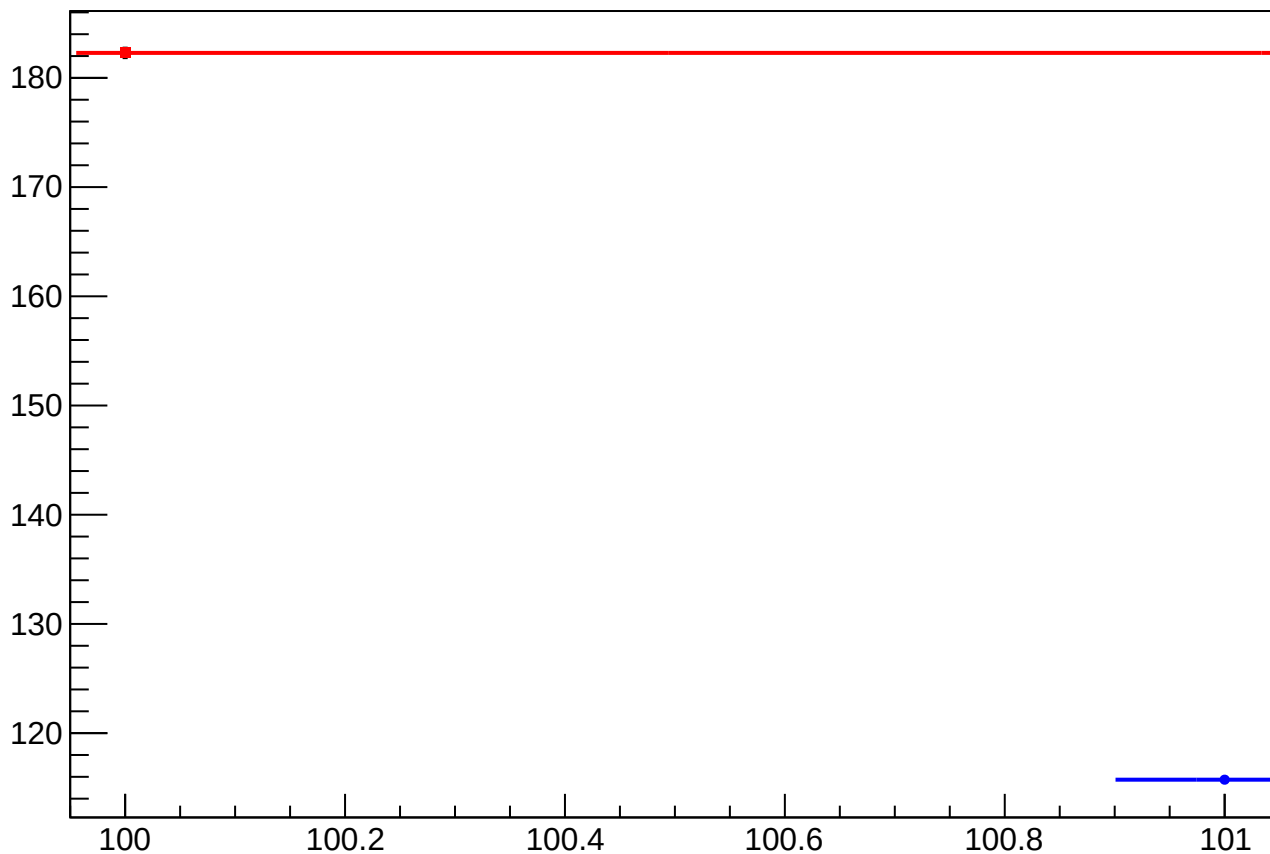
Right: 243.792 $\pm$ 140.785  $\chi^2$ /NDF: 0.0/1

In: 238.861 $\pm$ 143.927  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 243.792 $\pm$ 140.785  $\chi^2$ /NDF: 0.0/1

cor\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 115.738 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 182.288 $\pm$ 0.479  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

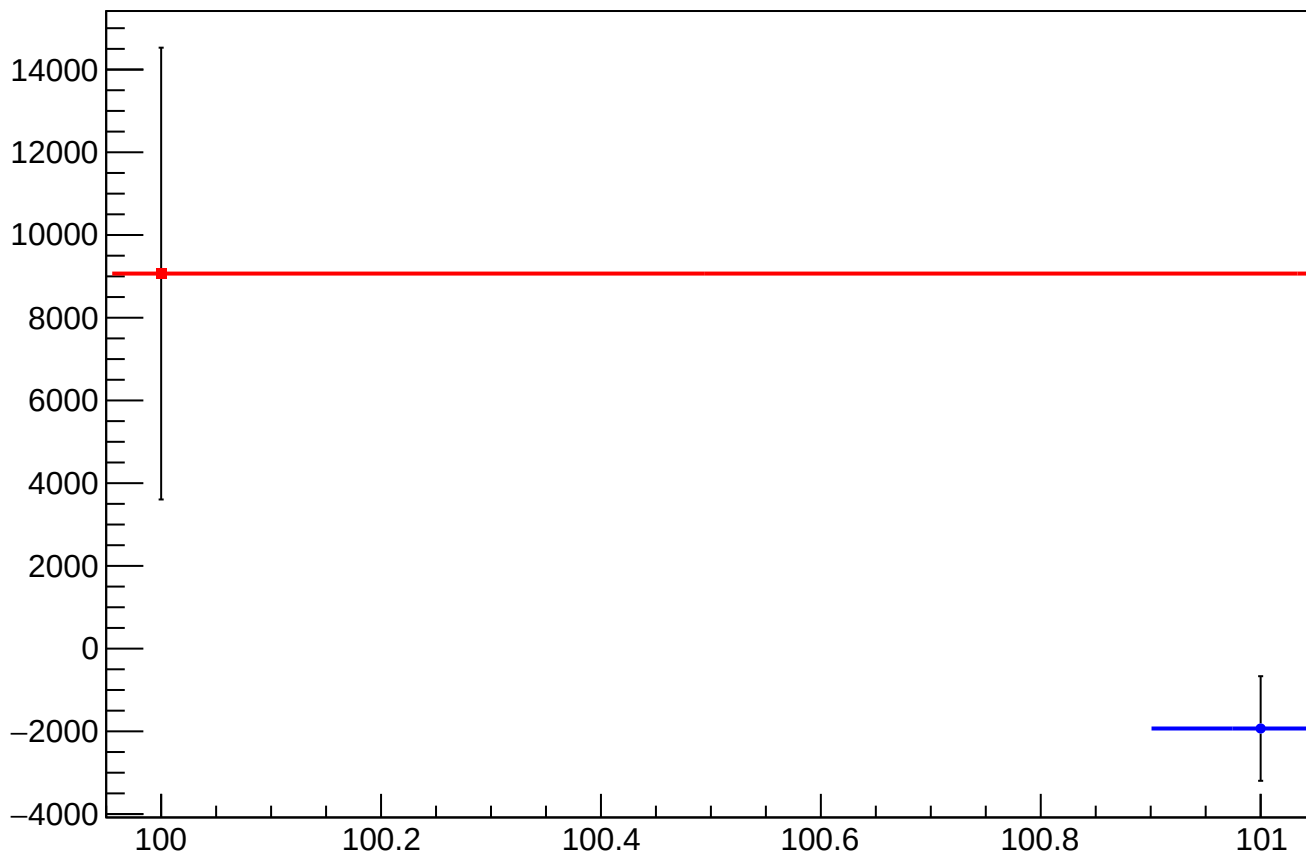
Right: 118.613 $\pm$ 0.100  $\chi^2$ /NDF: 18470.4/1

In: 115.738 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.613 $\pm$ 0.100  $\chi^2$ /NDF: 18470.4/1

asym\_sam\_1526\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1931.301+/-1264.387  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9067.483+/-5461.630  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

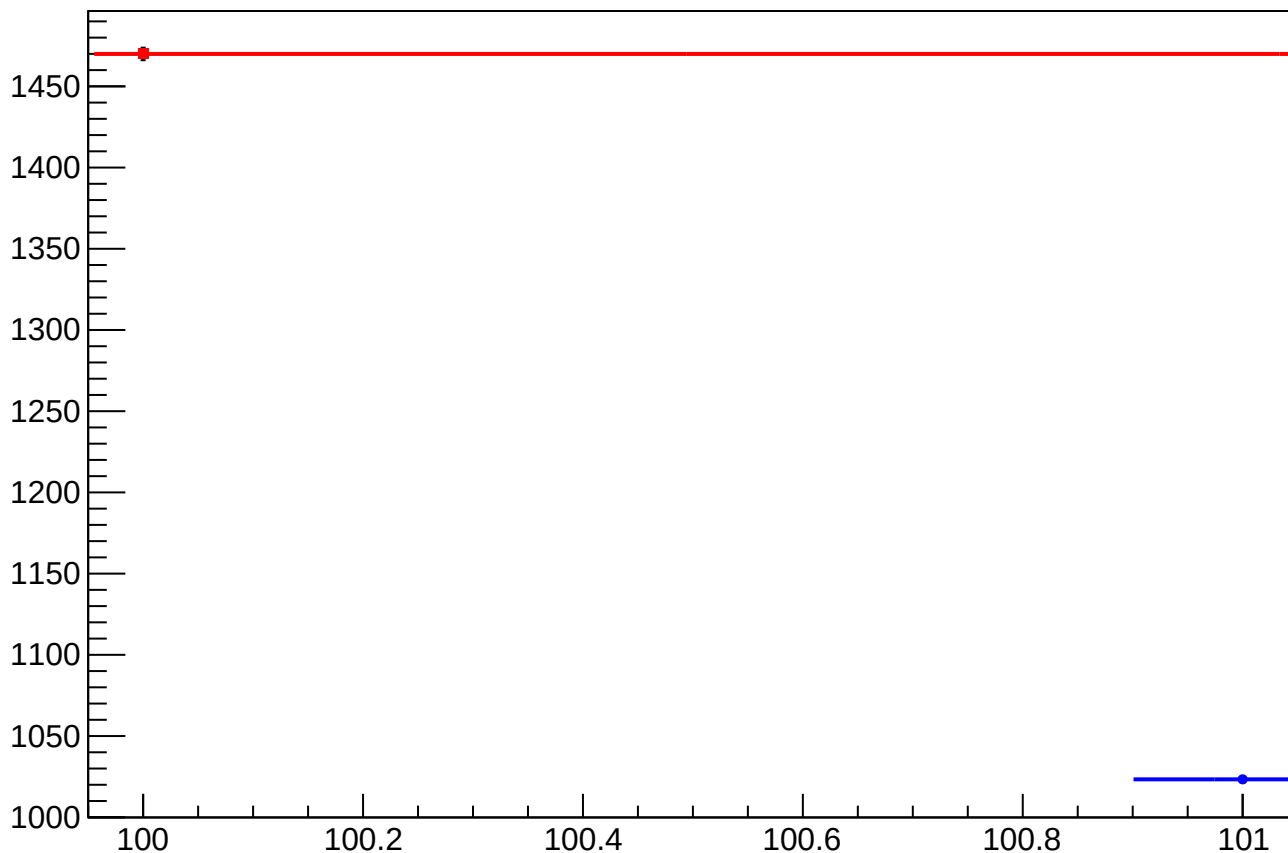
Right: -1371.818+/-1231.809  $\chi^2/\text{NDF}$ : 3.8/1

In: -1931.301+/-1264.387  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1371.818+/-1231.809  $\chi^2/\text{NDF}$ : 3.8/1

asym\_sam\_1526\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1023.338 $\pm$ 0.894  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1469.952 $\pm$ 3.862  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

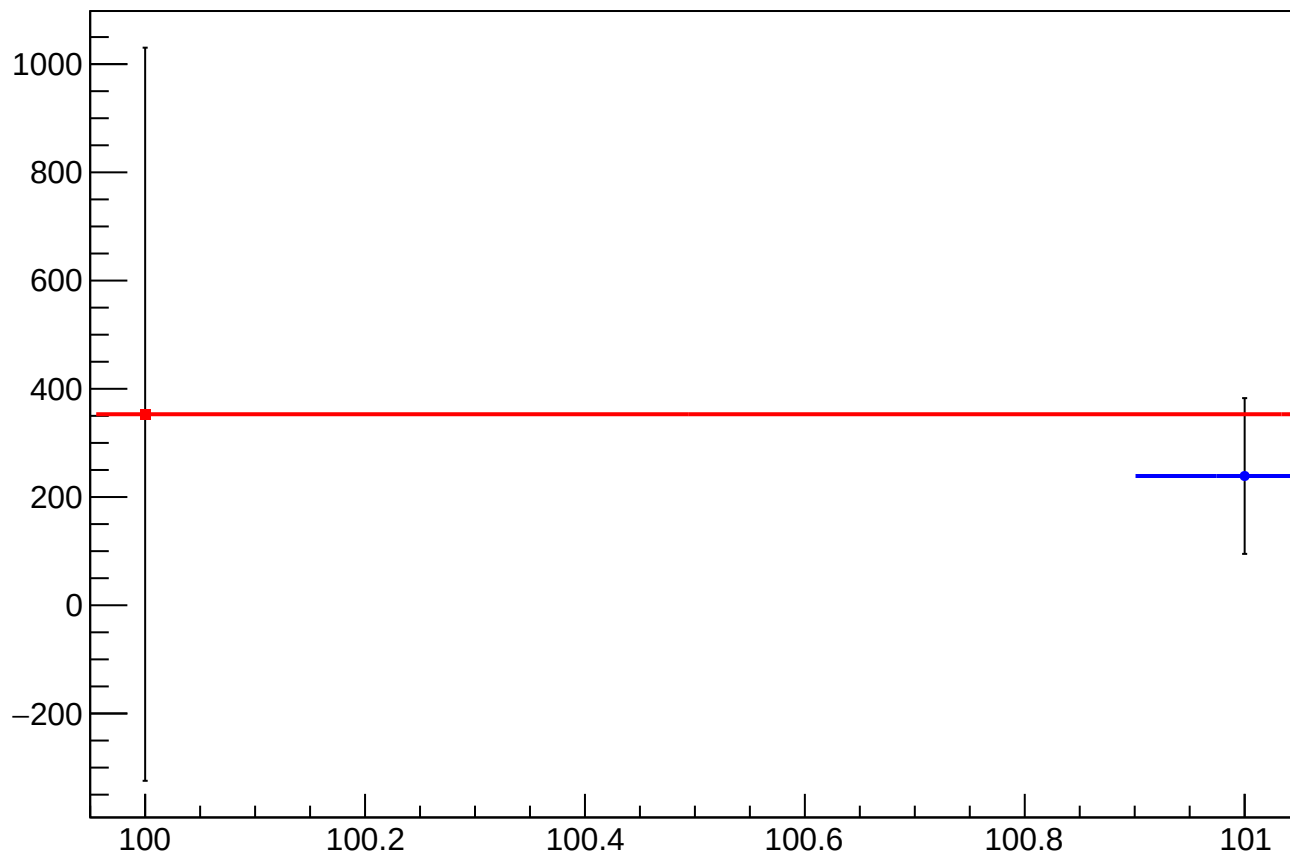
Right: 1046.056 $\pm$ 0.871  $\chi^2$ /NDF: 12693.4/1

In: 1023.338 $\pm$ 0.894  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1046.056 $\pm$ 0.871  $\chi^2$ /NDF: 12693.4/1

eigen\_cor\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 238.861+/-143.927  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 353.005+/-677.389  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

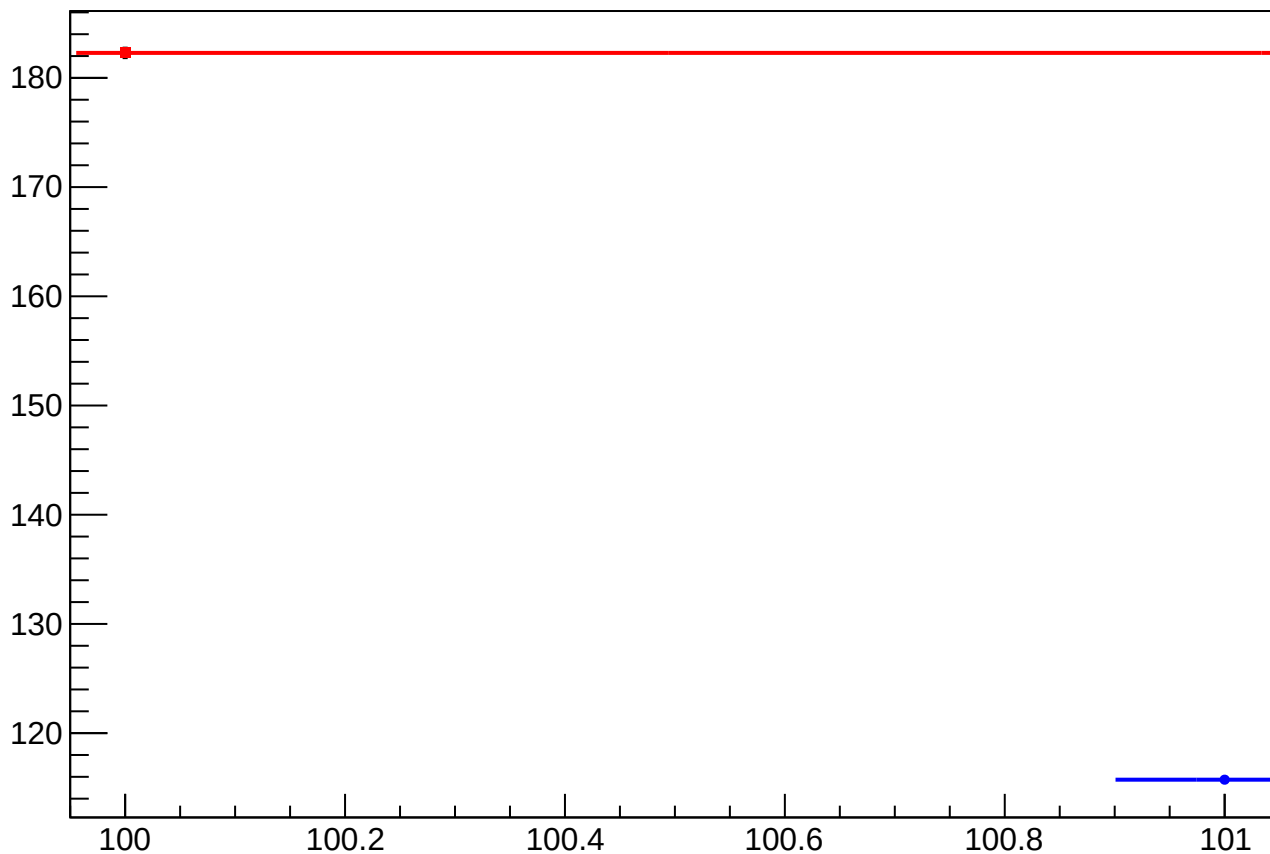
Right: 243.792+/-140.785  $\chi^2/\text{NDF}$ : 0.0/1

In: 238.861+/-143.927  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 243.792+/-140.785  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 115.738 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 182.288 $\pm$ 0.479  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 118.613 $\pm$ 0.100  $\chi^2$ /NDF: 18470.4/1

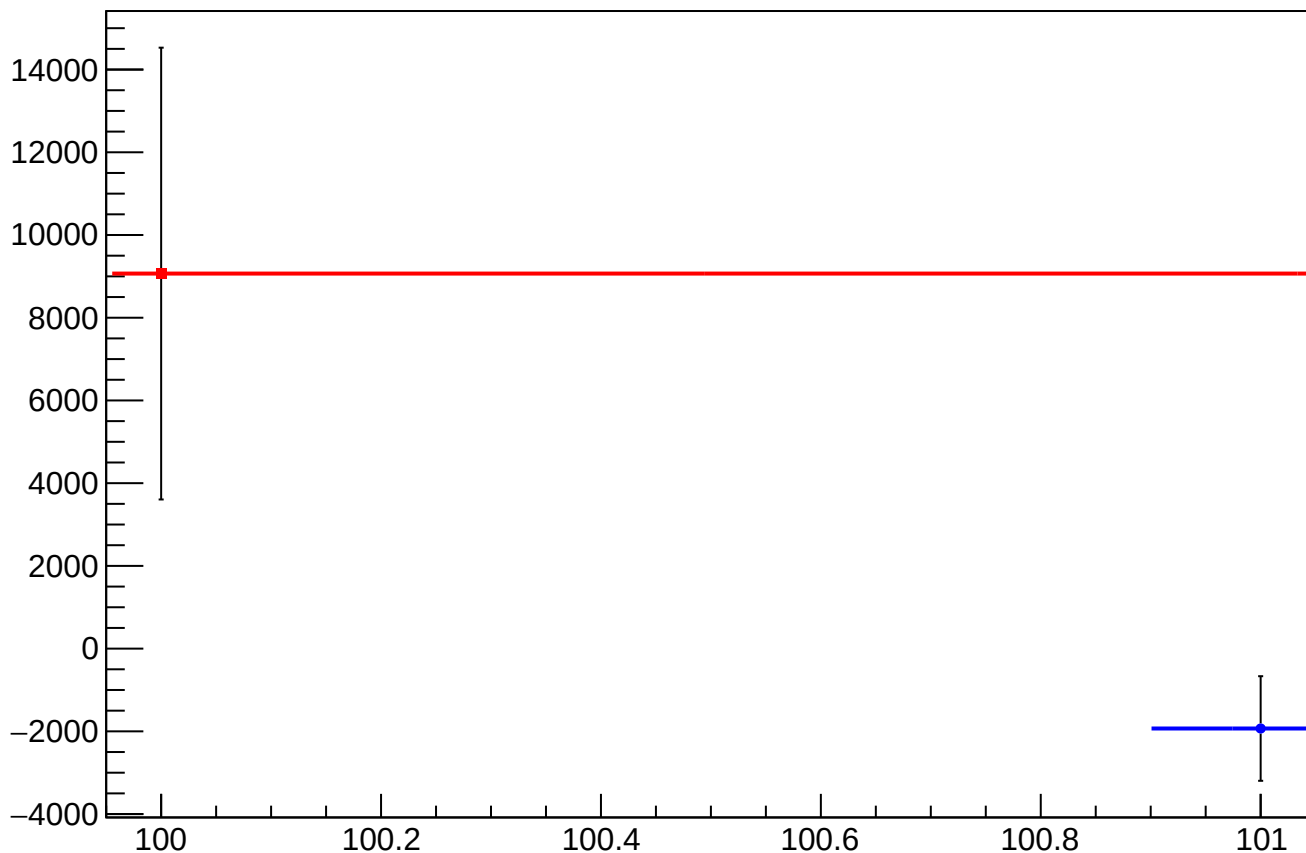
In: 115.738 $\pm$ 0.102  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 118.613 $\pm$ 0.100  $\chi^2$ /NDF: 18470.4/1



asym\_sam\_1526\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1931.301+/-1264.387  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9067.483+/-5461.630  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

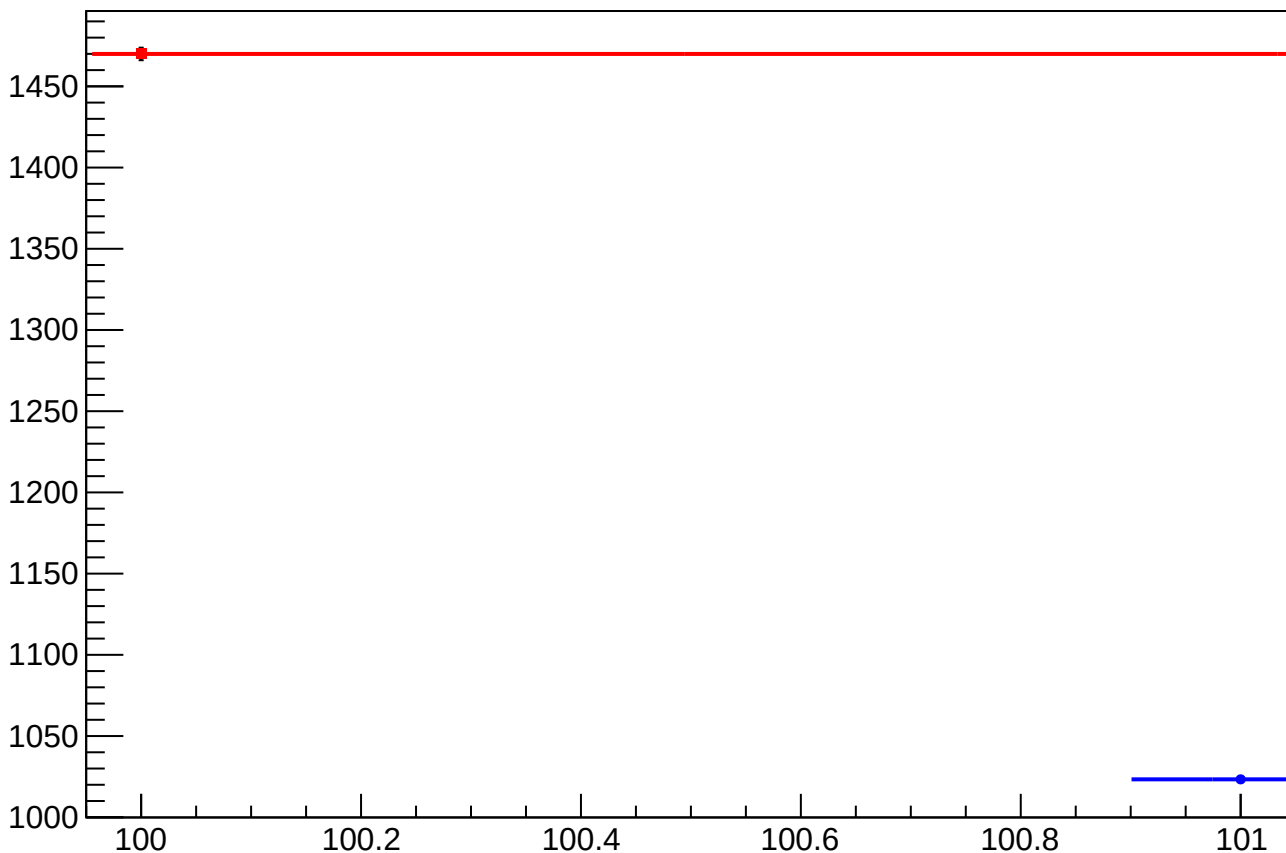
Right: -1371.818+/-1231.809  $\chi^2/\text{NDF}$ : 3.8/1

In: -1931.301+/-1264.387  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1371.818+/-1231.809  $\chi^2/\text{NDF}$ : 3.8/1

asym\_sam\_1526\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1023.338 $\pm$ 0.894  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1469.952 $\pm$ 3.862  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

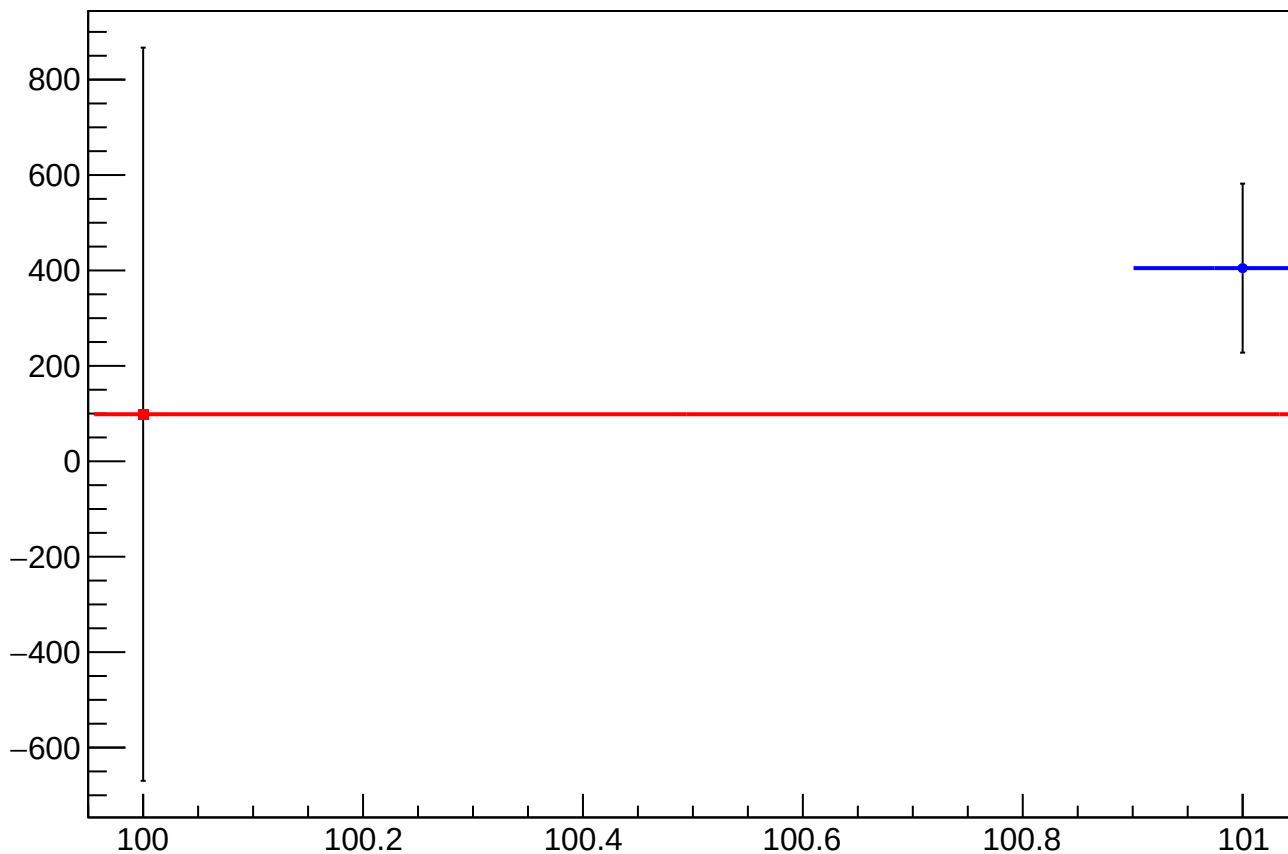
Right: 1046.056 $\pm$ 0.871  $\chi^2$ /NDF: 12693.4/1

In: 1023.338 $\pm$ 0.894  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1046.056 $\pm$ 0.871  $\chi^2$ /NDF: 12693.4/1

dit\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 404.865+/-177.122  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 98.645+/-768.295  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

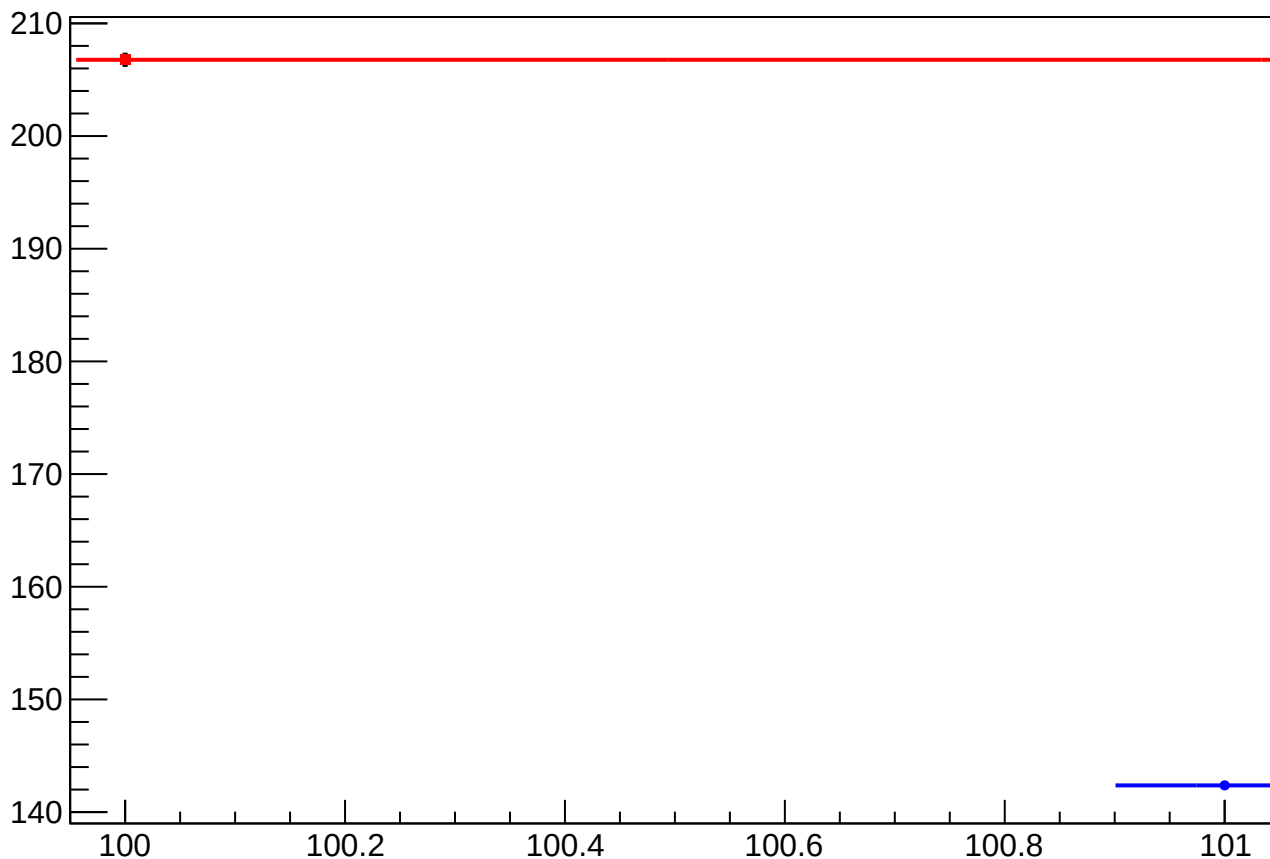
Right: 389.412+/-172.595  $\chi^2/\text{NDF}$ : 0.2/1

In: 404.865+/-177.122  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 389.412+/-172.595  $\chi^2/\text{NDF}$ : 0.2/1

dit\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 142.372 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 206.767 $\pm$ 0.543  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

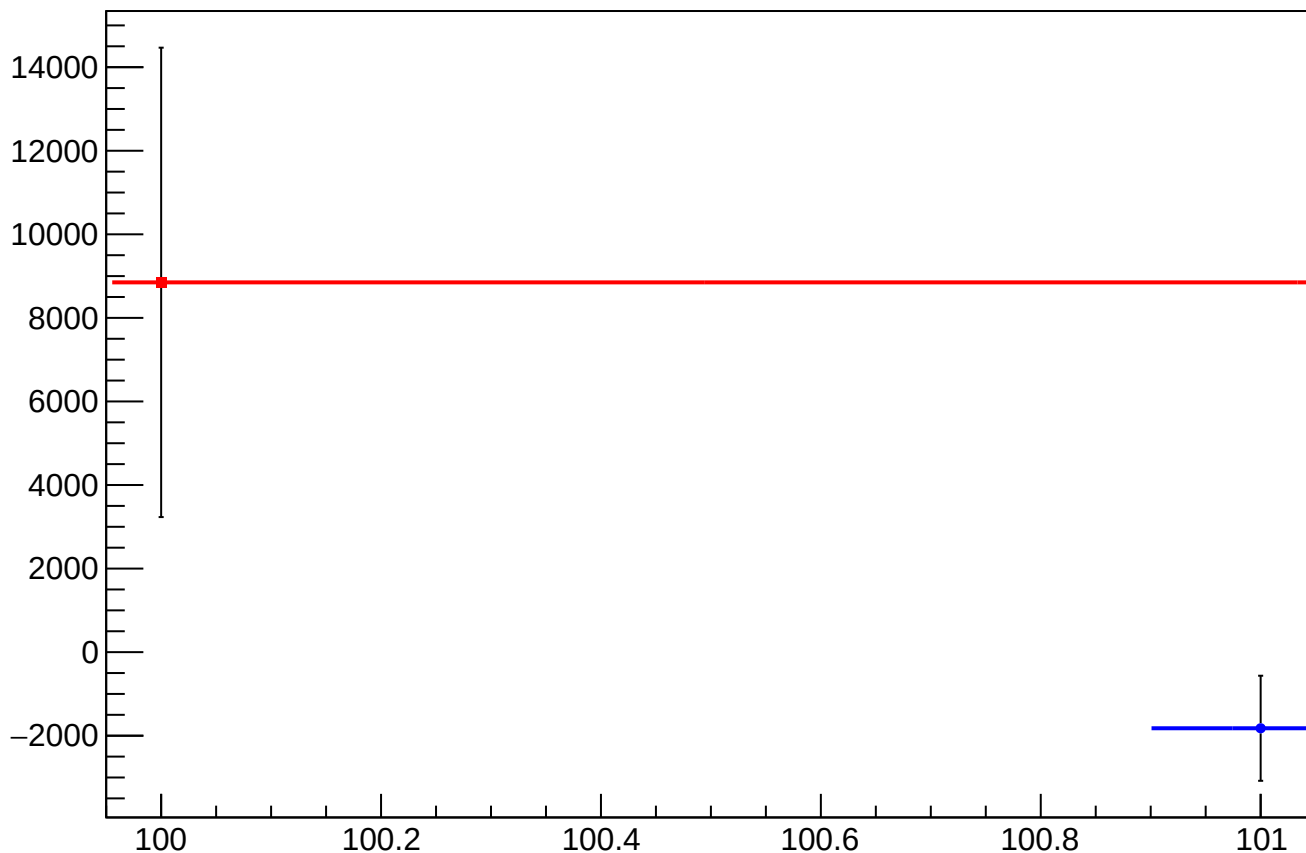
Right: 145.622 $\pm$ 0.122  $\chi^2$ /NDF: 13341.1/1

In: 142.372 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.622 $\pm$ 0.122  $\chi^2$ /NDF: 13341.1/1

asym\_sam\_1526\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1821.727+/-1257.376  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8849.859+/-5617.165  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

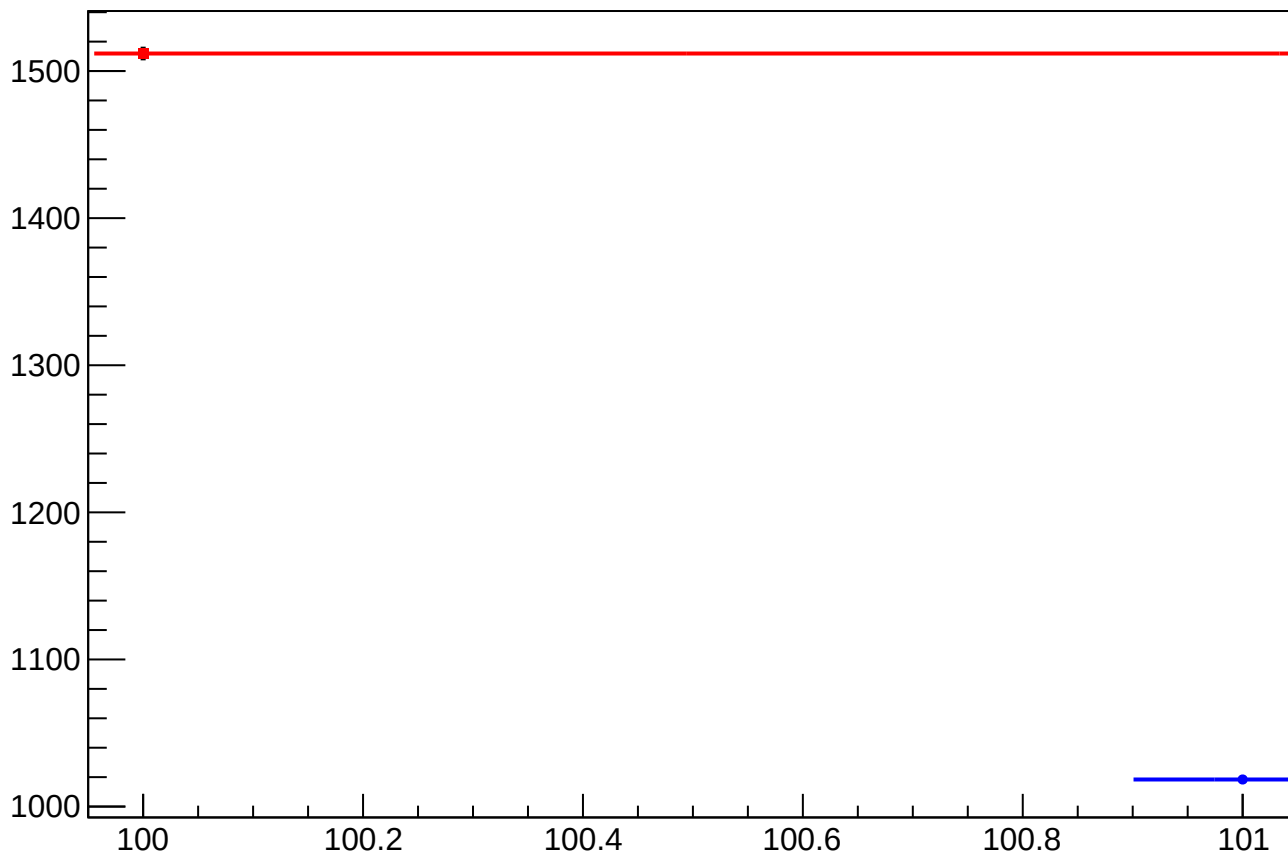
Right: -1312.524+/-1227.011  $\chi^2/\text{NDF}$ : 3.4/1

In: -1821.727+/-1257.376  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1312.524+/-1227.011  $\chi^2/\text{NDF}$ : 3.4/1

asym\_sam\_1526\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1018.403+/-0.889  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1511.917+/-3.972  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

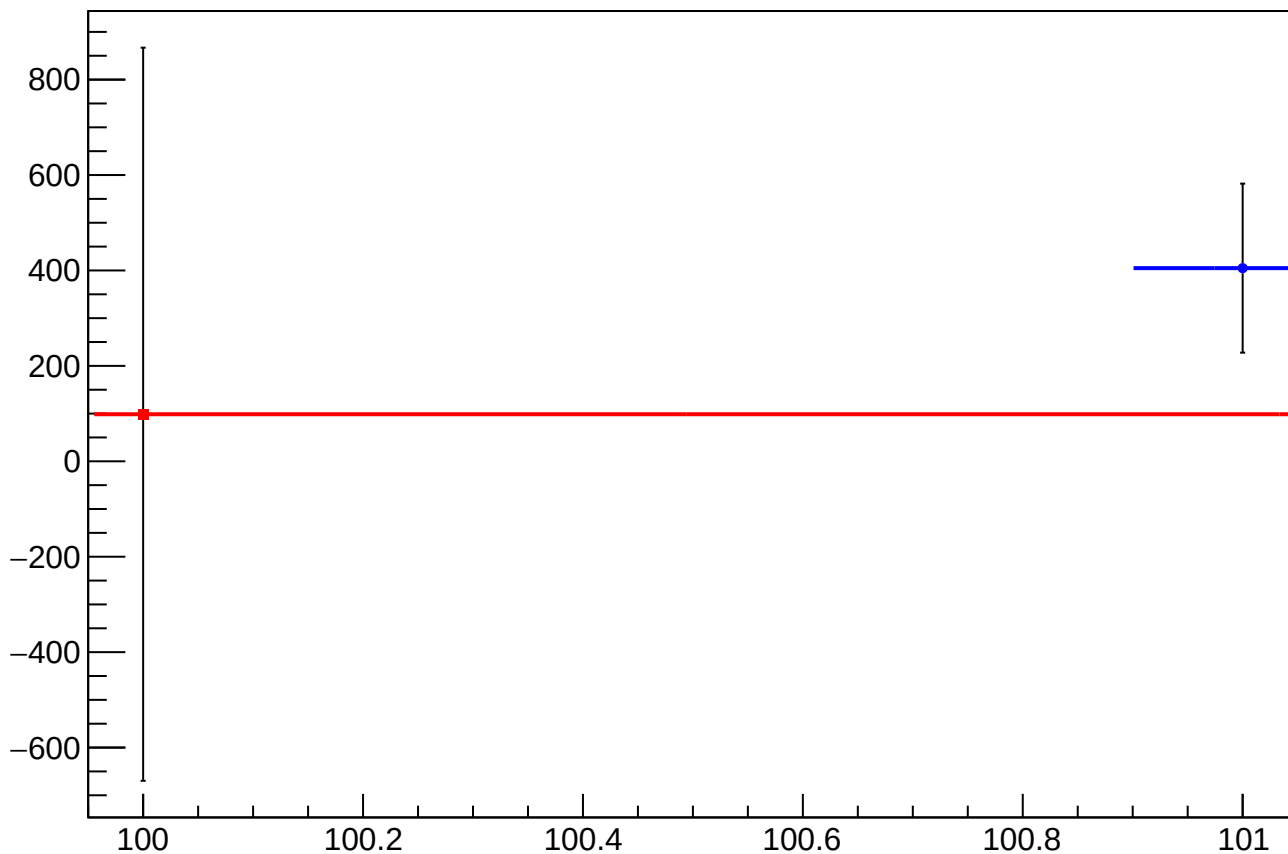
Right: 1041.952+/-0.868  $\chi^2/\text{NDF}$ : 14701.4/1

In: 1018.403+/-0.889  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1041.952+/-0.868  $\chi^2/\text{NDF}$ : 14701.4/1

eigen\_dit\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 404.865 $\pm$ 177.122  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 98.649 $\pm$ 768.295  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

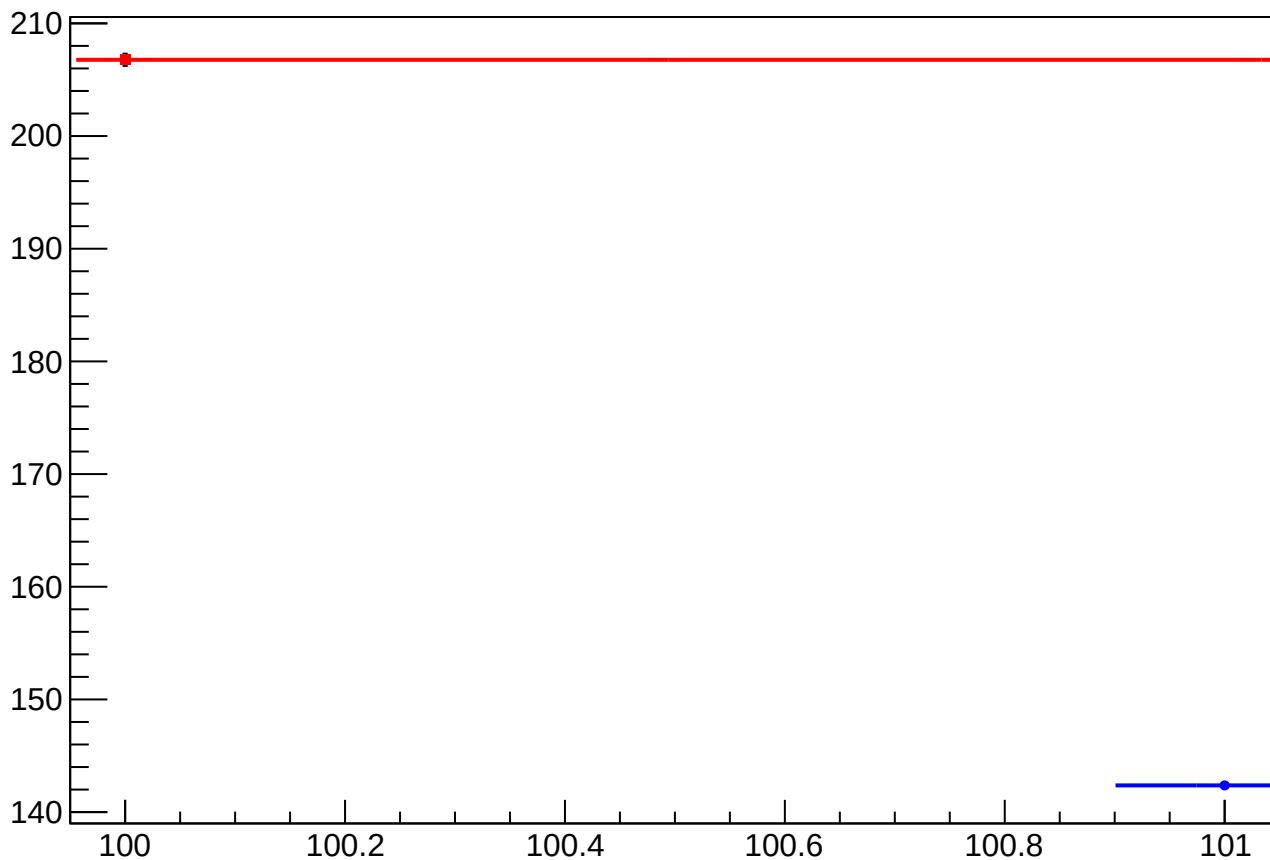
Right: 389.412 $\pm$ 172.595  $\chi^2$ /NDF: 0.2/1

In: 404.865 $\pm$ 177.122  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 389.412 $\pm$ 172.595  $\chi^2$ /NDF: 0.2/1

eigen\_dit\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 142.372 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 206.767 $\pm$ 0.543  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 145.622 $\pm$ 0.122  $\chi^2$ /NDF: 13341.1/1

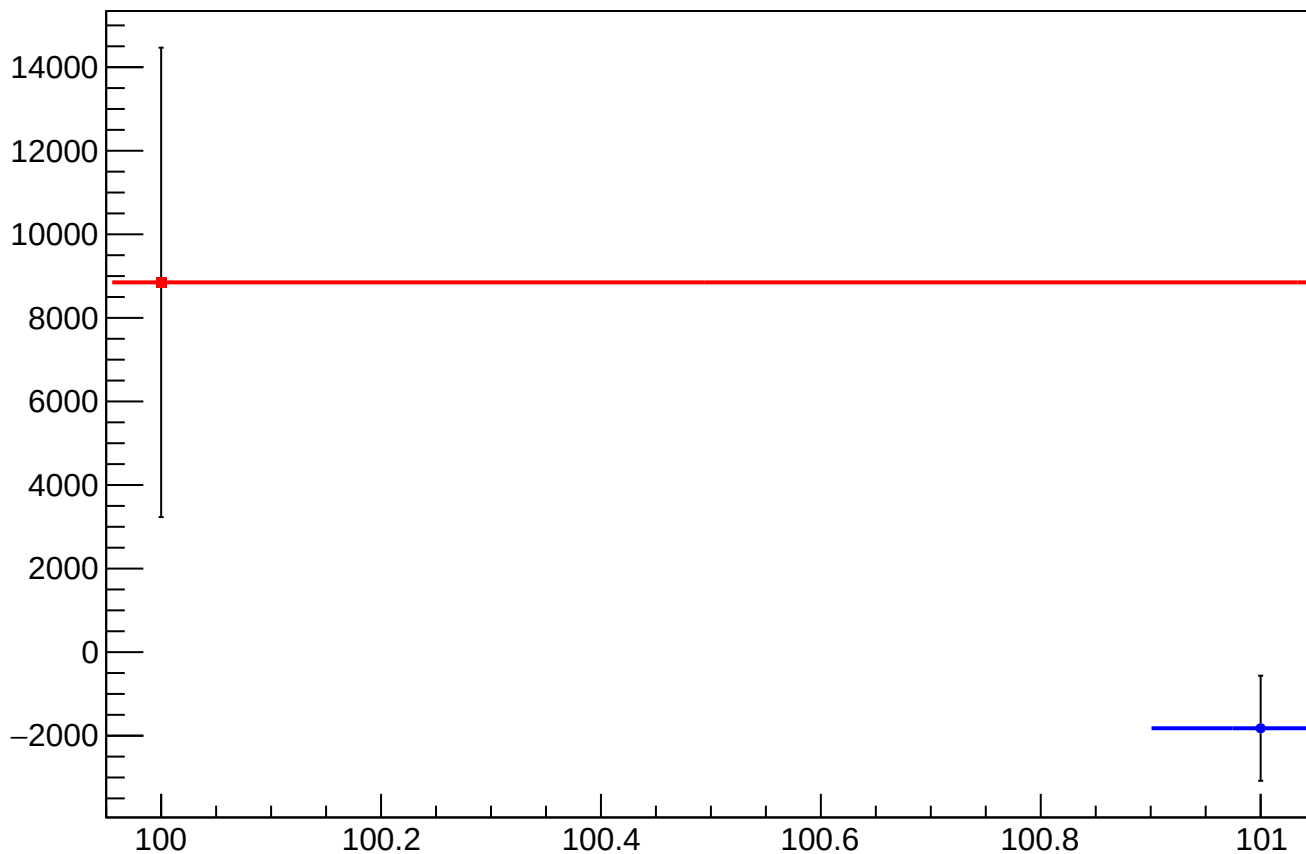
In: 142.372 $\pm$ 0.125  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.622 $\pm$ 0.122  $\chi^2$ /NDF: 13341.1/1



asym\_sam\_1526\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1821.728+/-1257.376  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 8849.864+/-5617.166  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

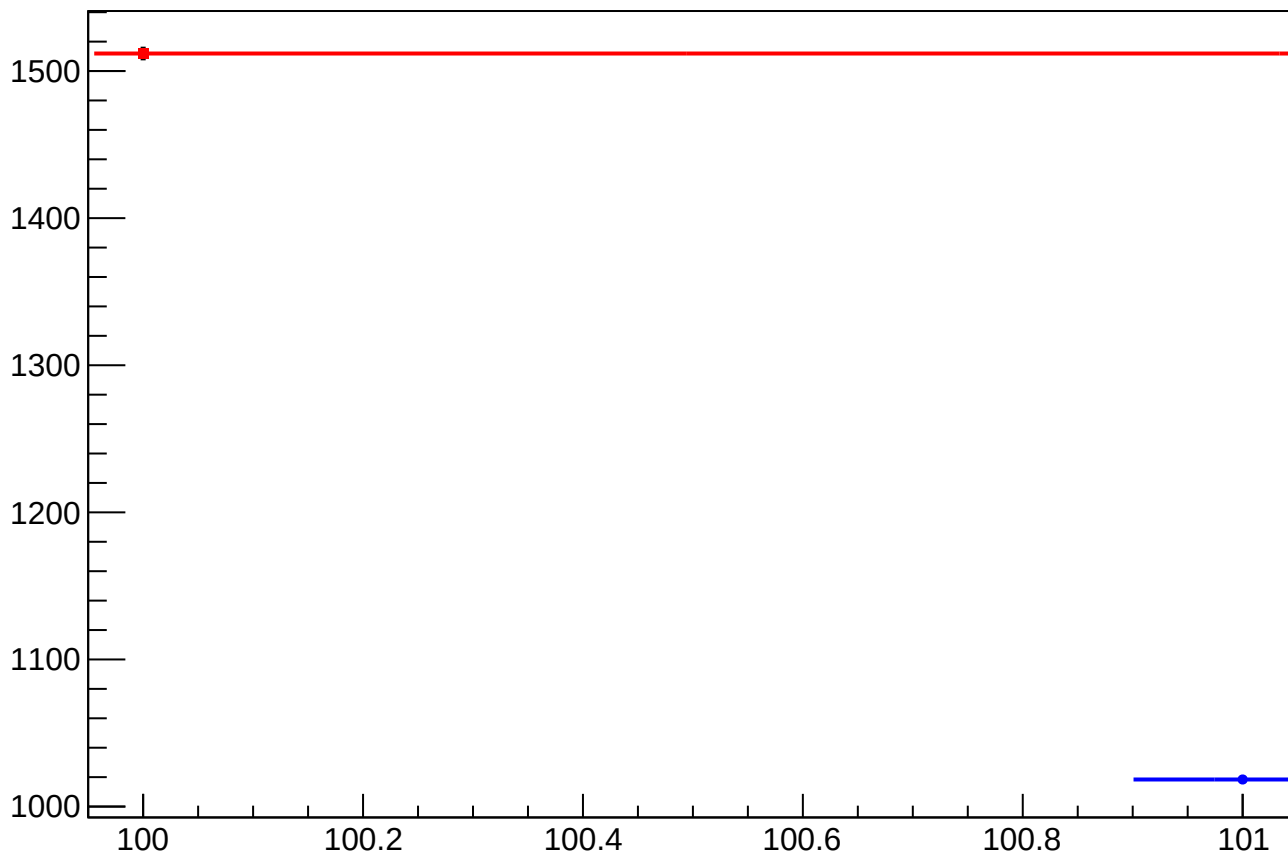
Right: -1312.525+/-1227.011  $\chi^2/\text{NDF}$ : 3.4/1

In: -1821.728+/-1257.376  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1312.525+/-1227.011  $\chi^2/\text{NDF}$ : 3.4/1

asym\_sam\_1526\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1018.403 $\pm$ 0.889  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1511.917 $\pm$ 3.972  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

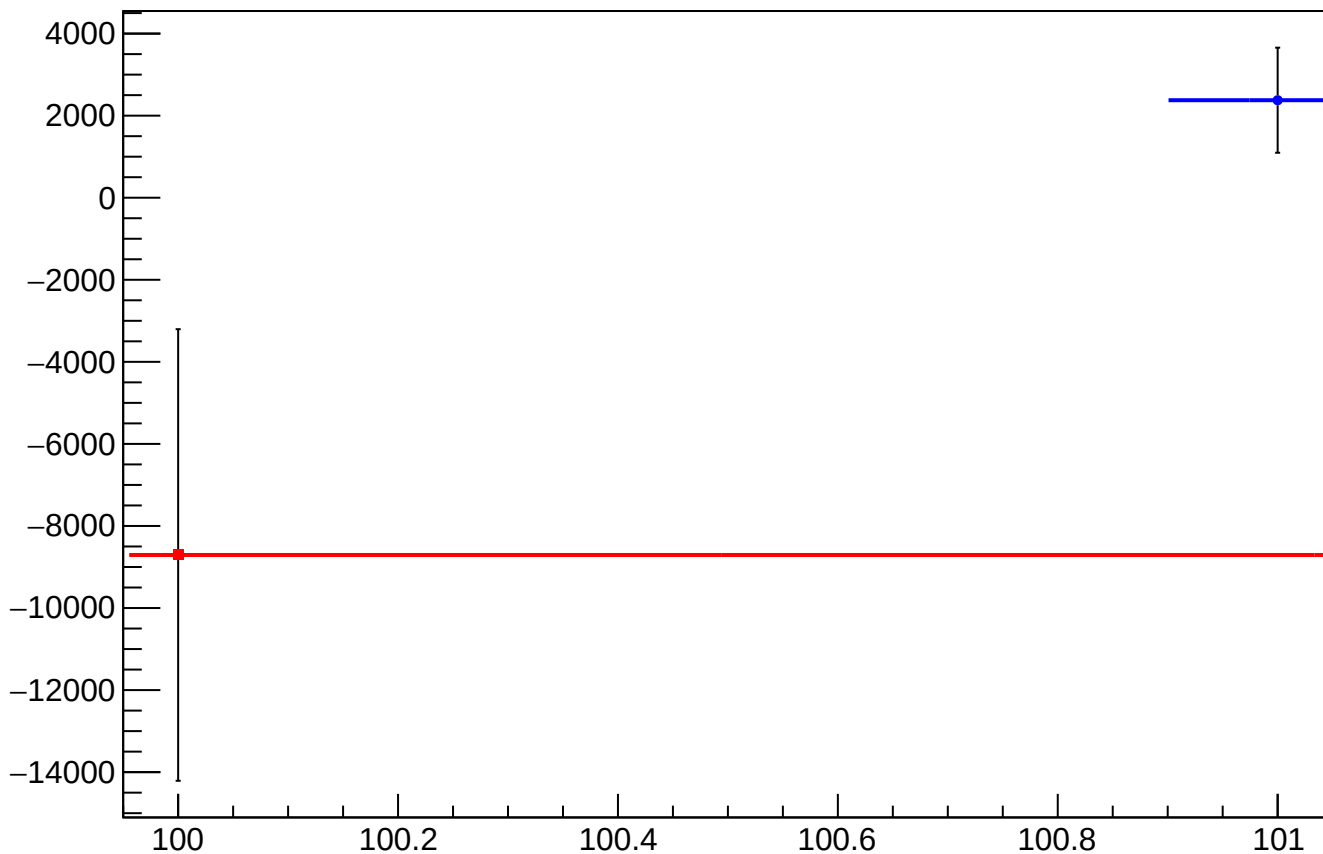
Right: 1041.951 $\pm$ 0.868  $\chi^2$ /NDF: 14701.5/1

In: 1018.403 $\pm$ 0.889  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1041.951 $\pm$ 0.868  $\chi^2$ /NDF: 14701.5/1

asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 2376.403+/-1280.636  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8707.330+/-5503.524  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

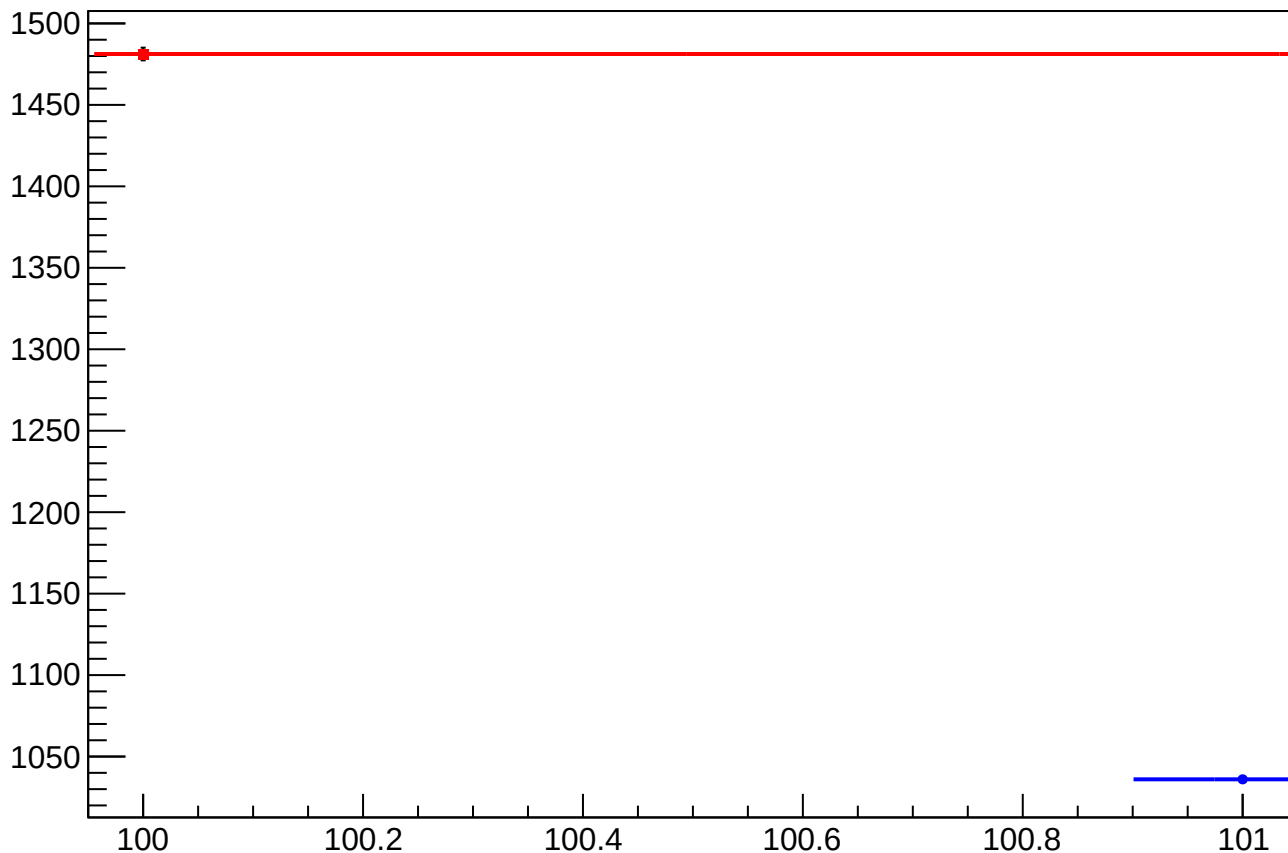
Right: 1807.086+/-1247.312  $\chi^2/\text{NDF}$ : 3.8/1

In: 2376.403+/-1280.636  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1807.086+/-1247.312  $\chi^2/\text{NDF}$ : 3.8/1

asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 1036.025+/-0.906  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1481.228+/-3.892  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

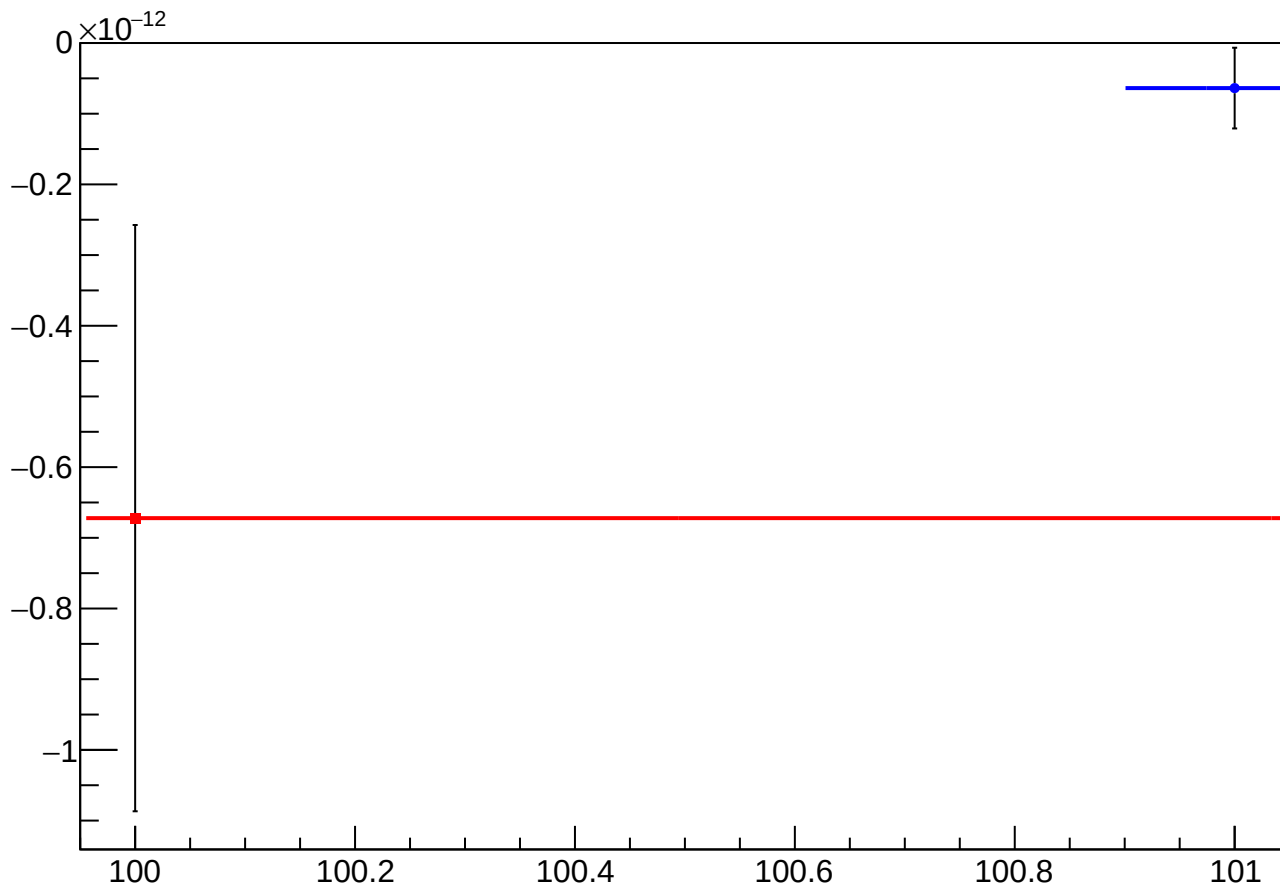
Right: 1058.893+/-0.882  $\chi^2/\text{NDF}$ : 12415.4/1

In: 1036.025+/-0.906  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1058.893+/-0.882  $\chi^2/\text{NDF}$ : 12415.4/1

asym\_sam\_1526\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

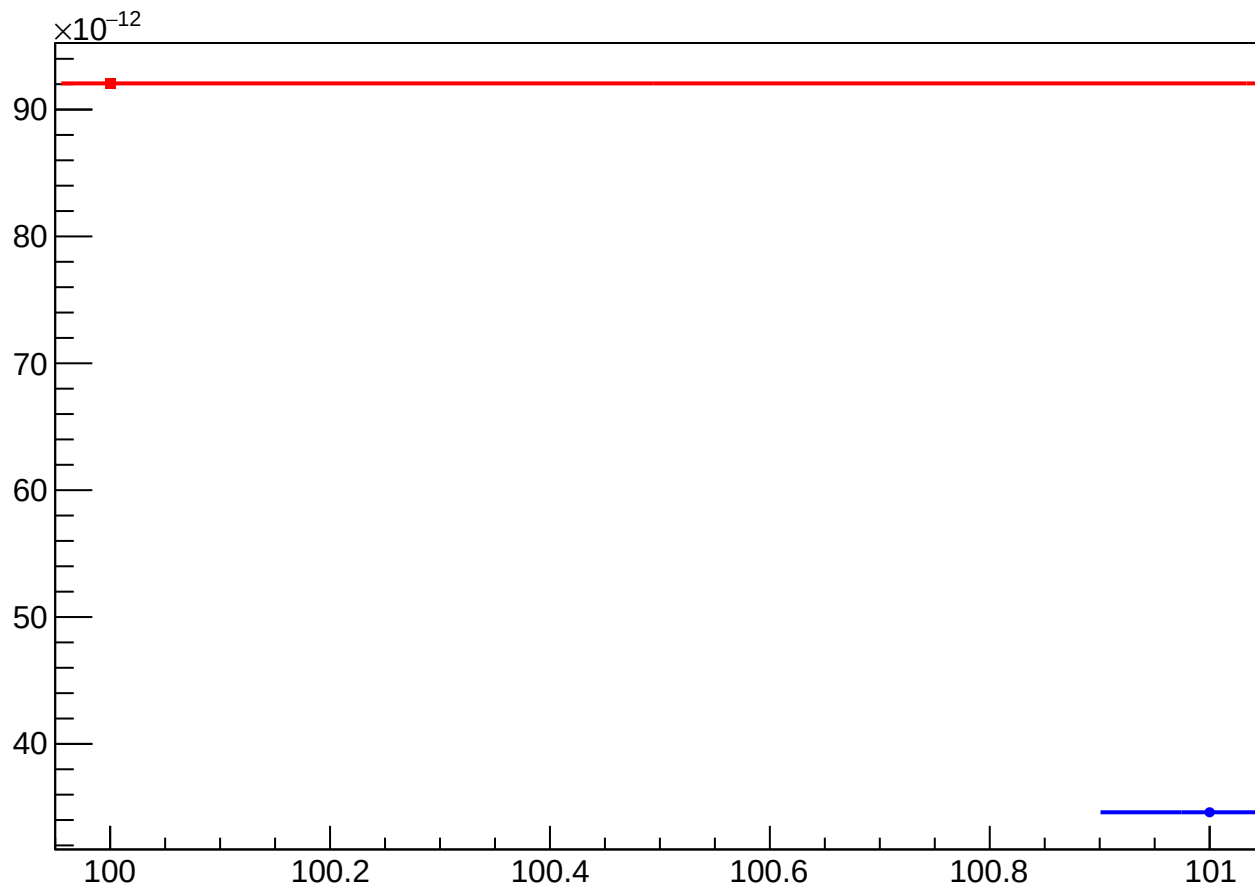
Right: -0.000+/-0.000  $\chi^2$ /NDF: 2.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 2.1/1

asym\_sam\_1526\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

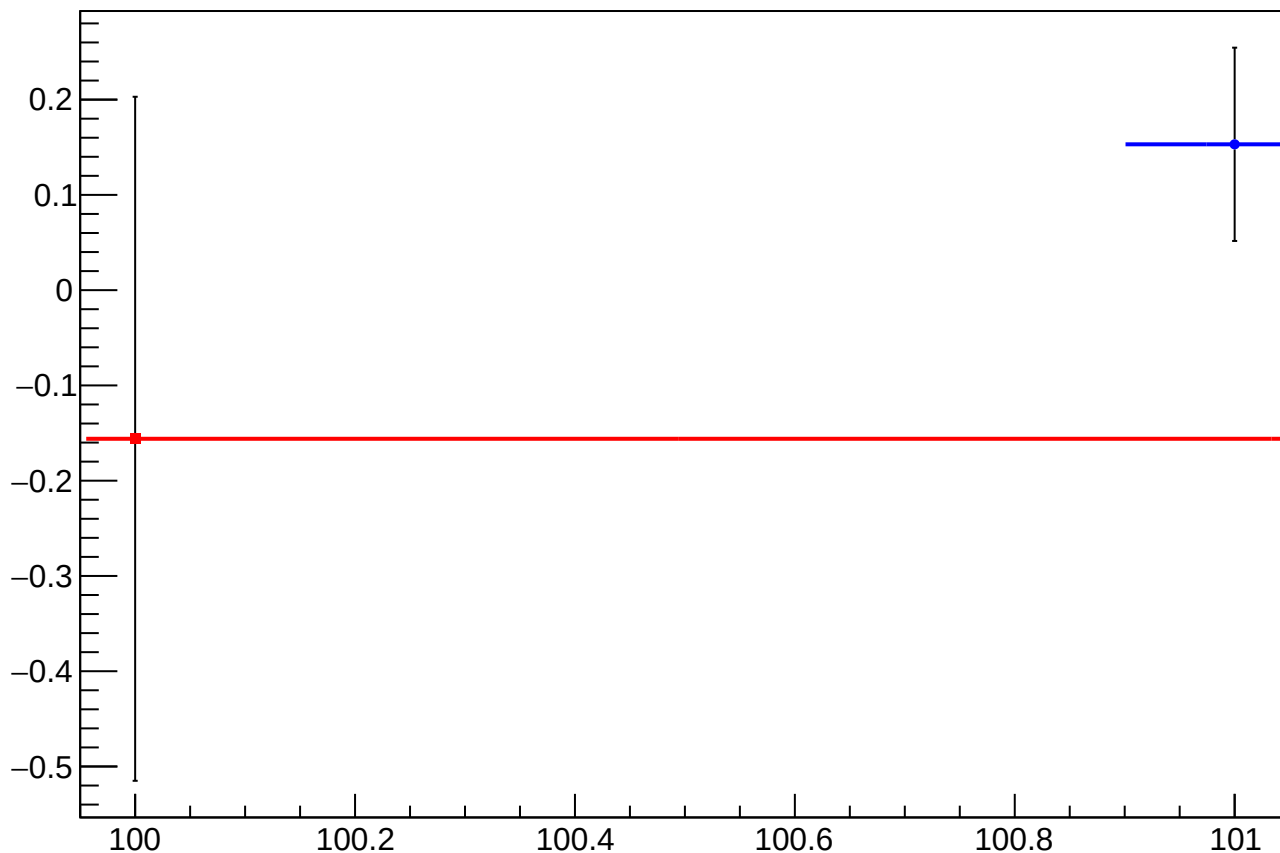
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37674.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37674.3/1

asym\_sam\_1526\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.153+/-0.101  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.156+/-0.359  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

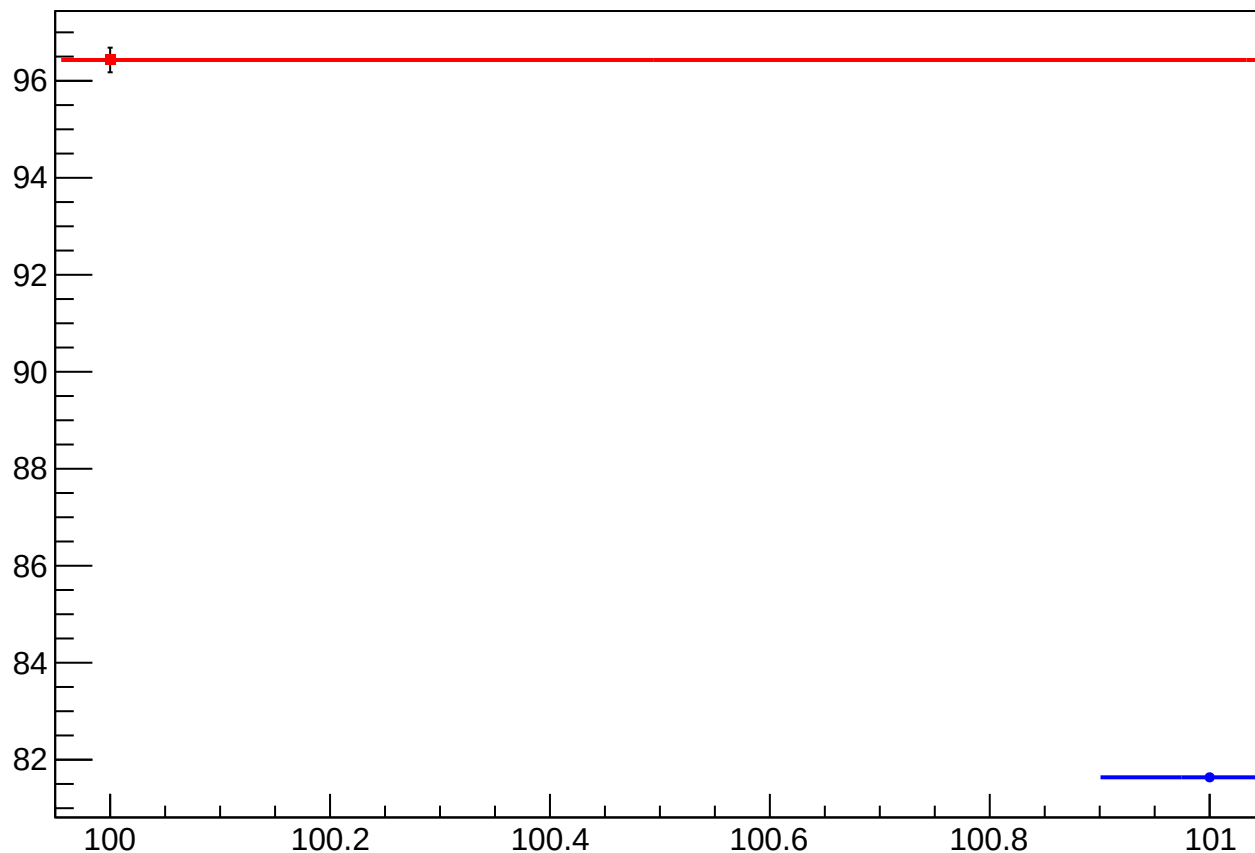
Right: 0.130+/-0.098  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.153+/-0.101  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.130+/-0.098  $\chi^2/\text{NDF}$ : 0.7/1

asym\_sam\_1526\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 81.637 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 96.430 $\pm$ 0.254  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 82.731 $\pm$ 0.069  $\chi^2$ /NDF: 3144.7/1

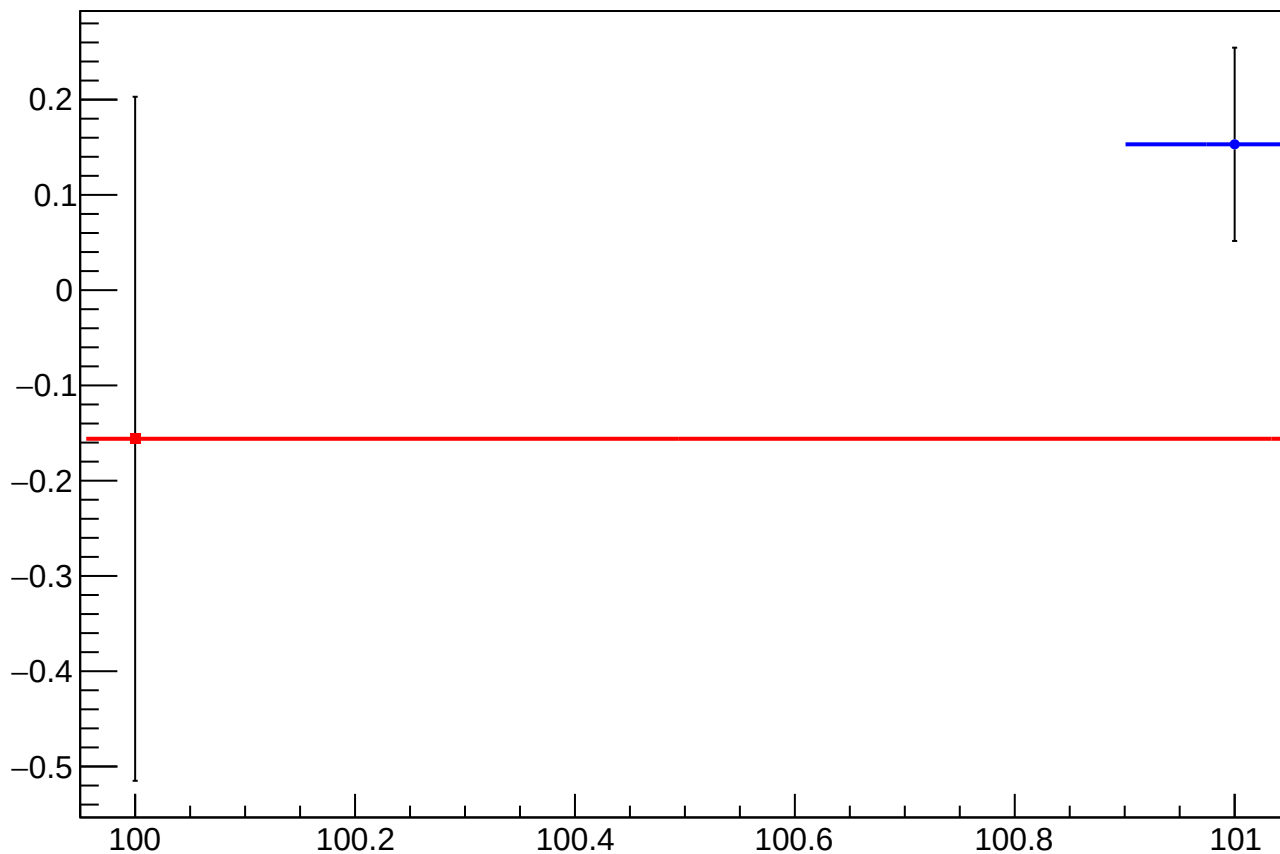
In: 81.637 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.731 $\pm$ 0.069  $\chi^2$ /NDF: 3144.7/1



asym\_sam\_1526\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.153+/-0.101  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.156+/-0.359  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

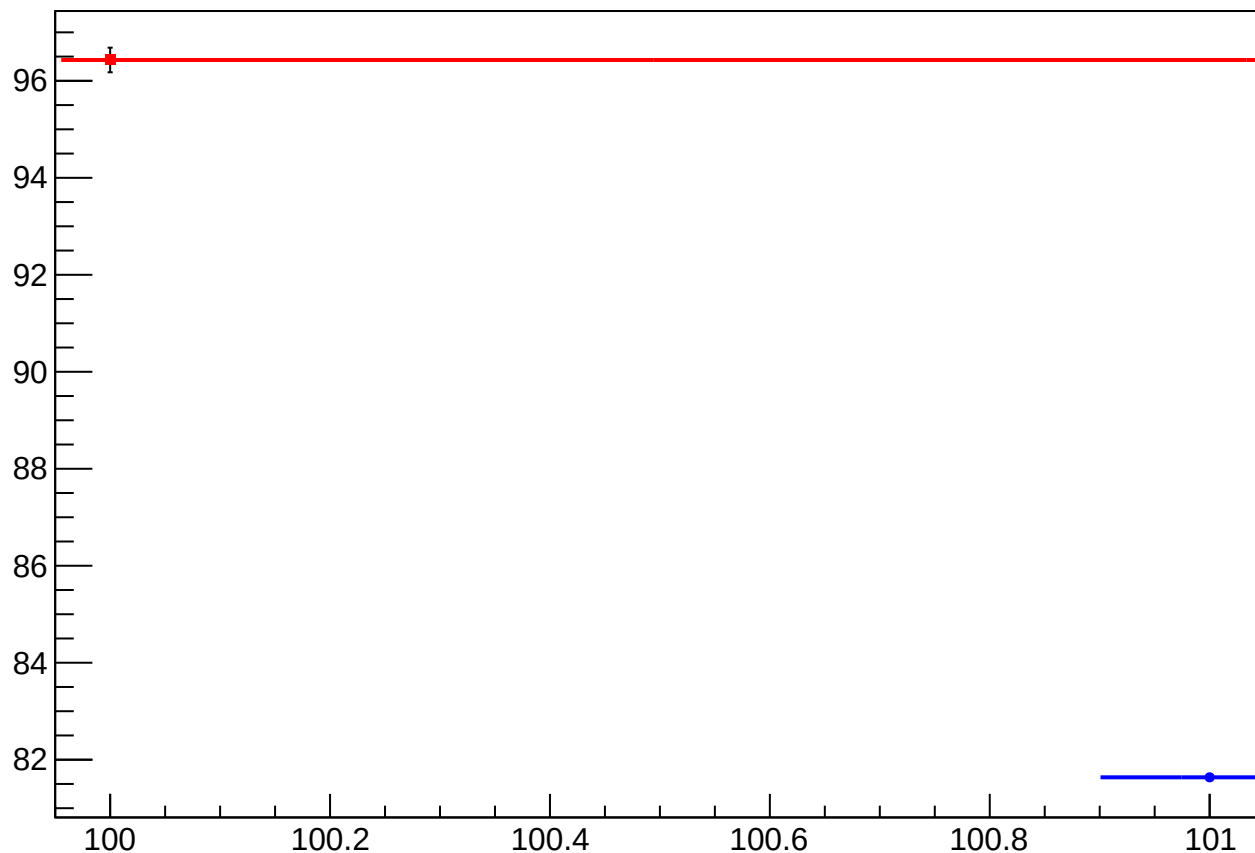
Right: 0.130+/-0.098  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.153+/-0.101  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.130+/-0.098  $\chi^2/\text{NDF}$ : 0.7/1

asym\_sam\_1526\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 81.637 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 96.430 $\pm$ 0.254  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

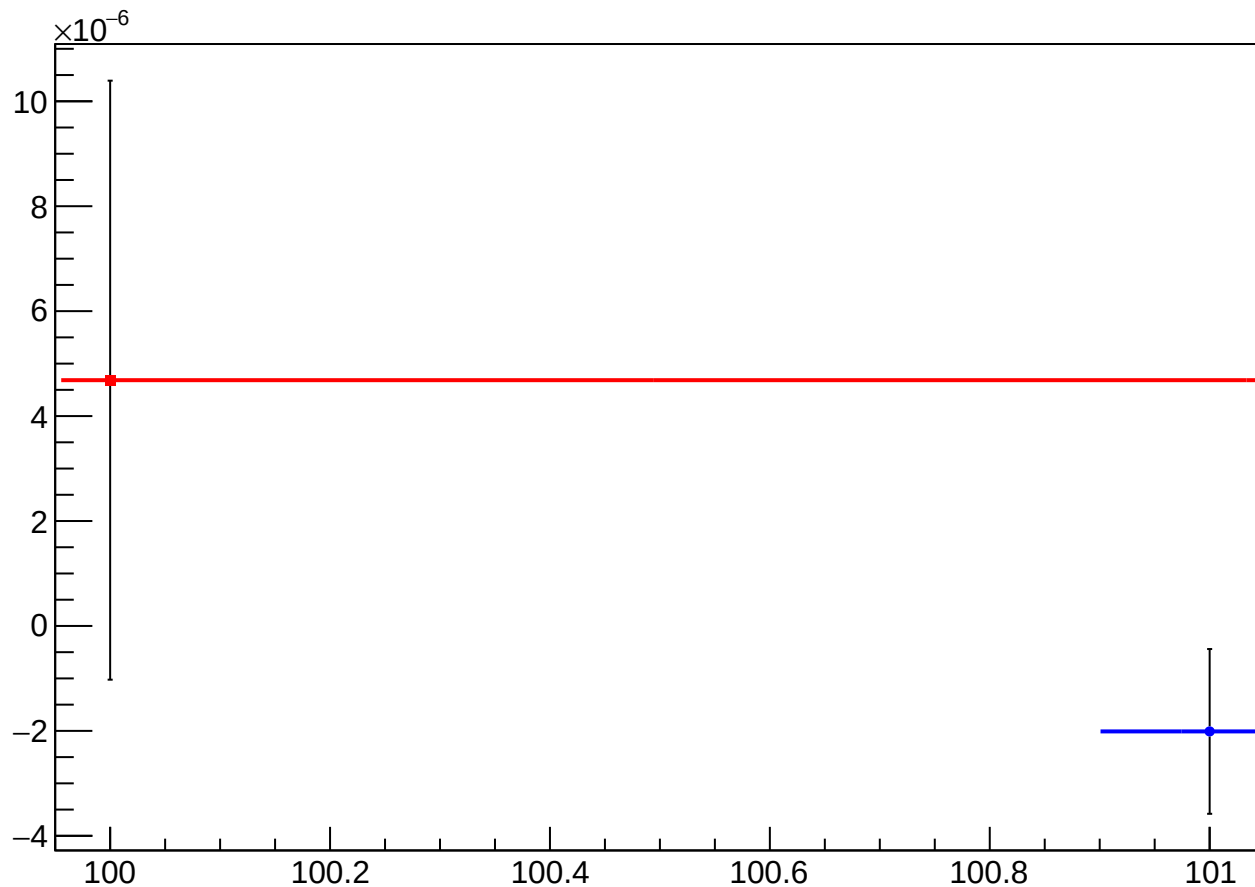
Right: 82.731 $\pm$ 0.069  $\chi^2$ /NDF: 3144.7/1

In: 81.637 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.731 $\pm$ 0.069  $\chi^2$ /NDF: 3144.7/1

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

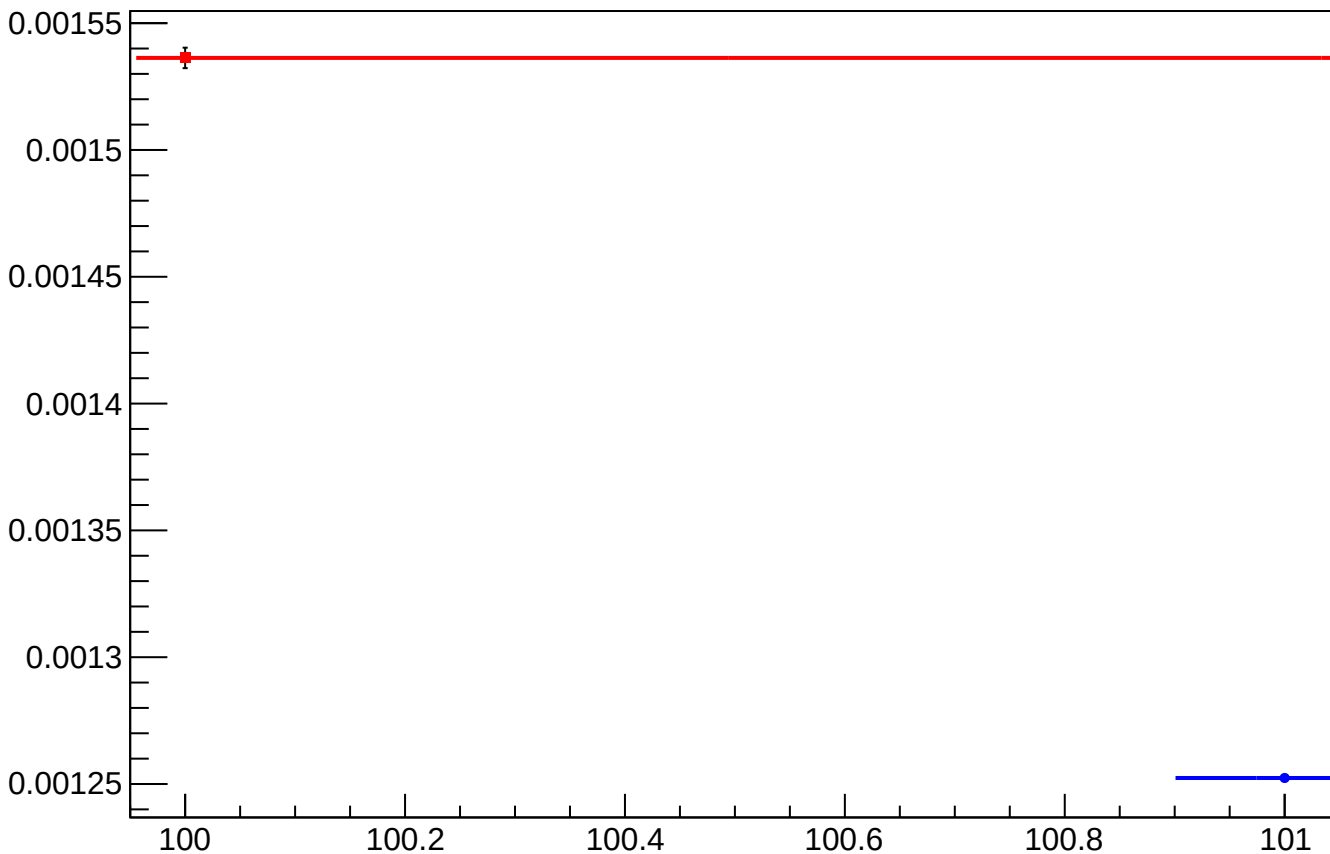
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.3/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.3/1

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

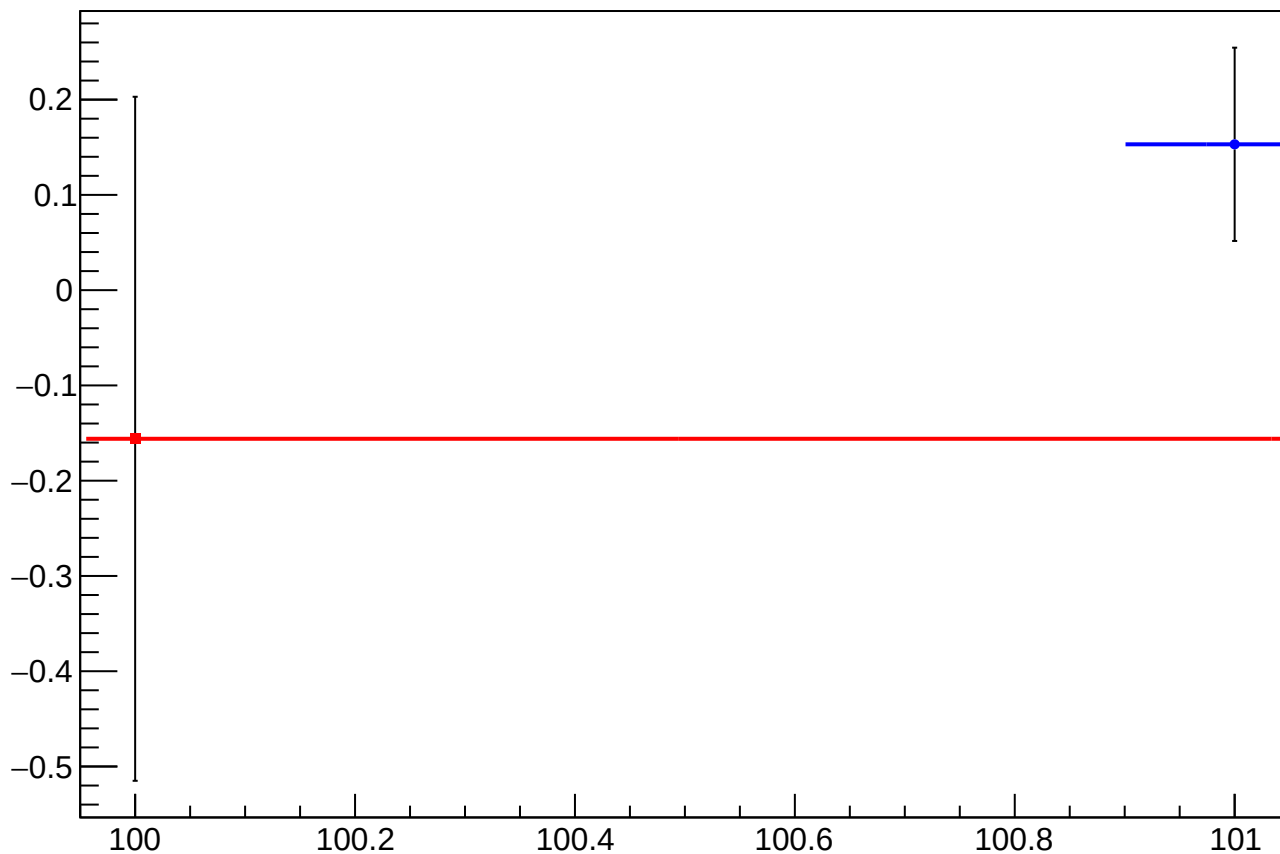
Right: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 4599.6/1

In: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.001 $\pm$ 0.000  $\chi^2$ /NDF: 4599.6/1

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.153+/-0.101  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.156+/-0.359  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.130+/-0.098  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.153+/-0.101  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.130+/-0.098  $\chi^2/\text{NDF}$ : 0.7/1

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 81.637 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 96.430 $\pm$ 0.254  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

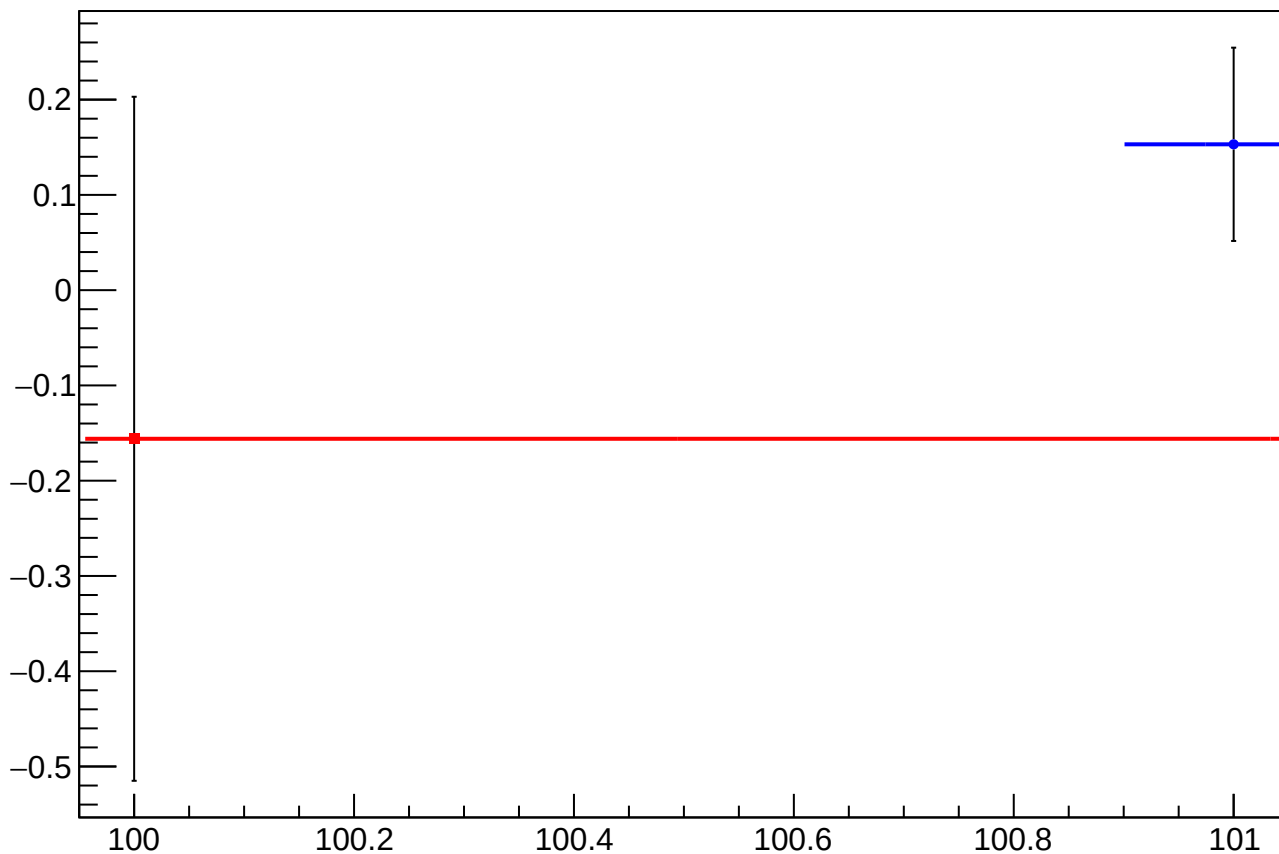
Right: 82.731 $\pm$ 0.069  $\chi^2$ /NDF: 3144.6/1

In: 81.637 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.731 $\pm$ 0.069  $\chi^2$ /NDF: 3144.6/1

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.153 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.156 $\pm$ 0.359  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.130 $\pm$ 0.098  $\chi^2/\text{NDF}$ : 0.7/1

In: 0.153 $\pm$ 0.101  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.130 $\pm$ 0.098  $\chi^2/\text{NDF}$ : 0.7/1

asym\_sam\_1526\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 81.637 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 96.430 $\pm$ 0.254  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 82.731 $\pm$ 0.069  $\chi^2$ /NDF: 3144.6/1

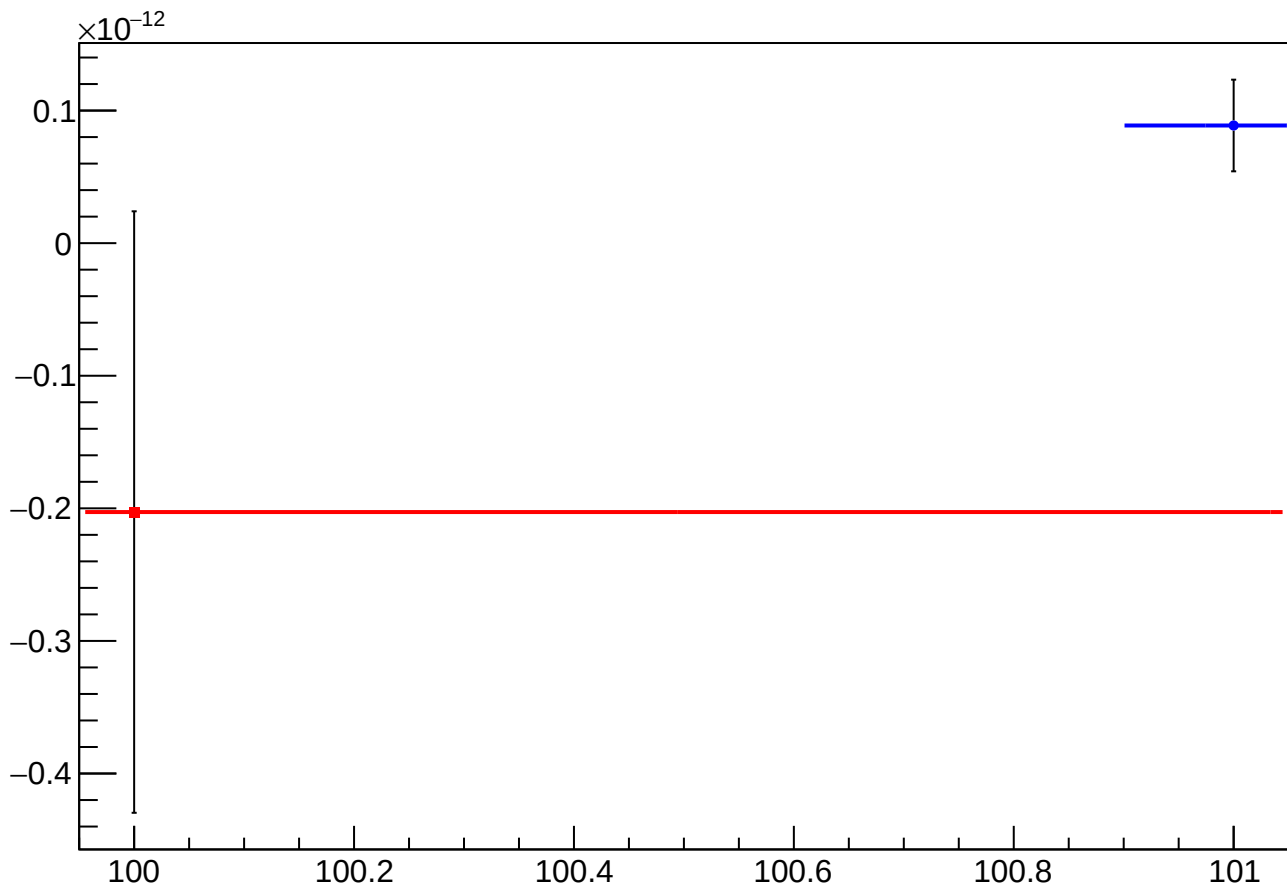
In: 81.637 $\pm$ 0.072  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.731 $\pm$ 0.069  $\chi^2$ /NDF: 3144.6/1



asym\_sam\_1526\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

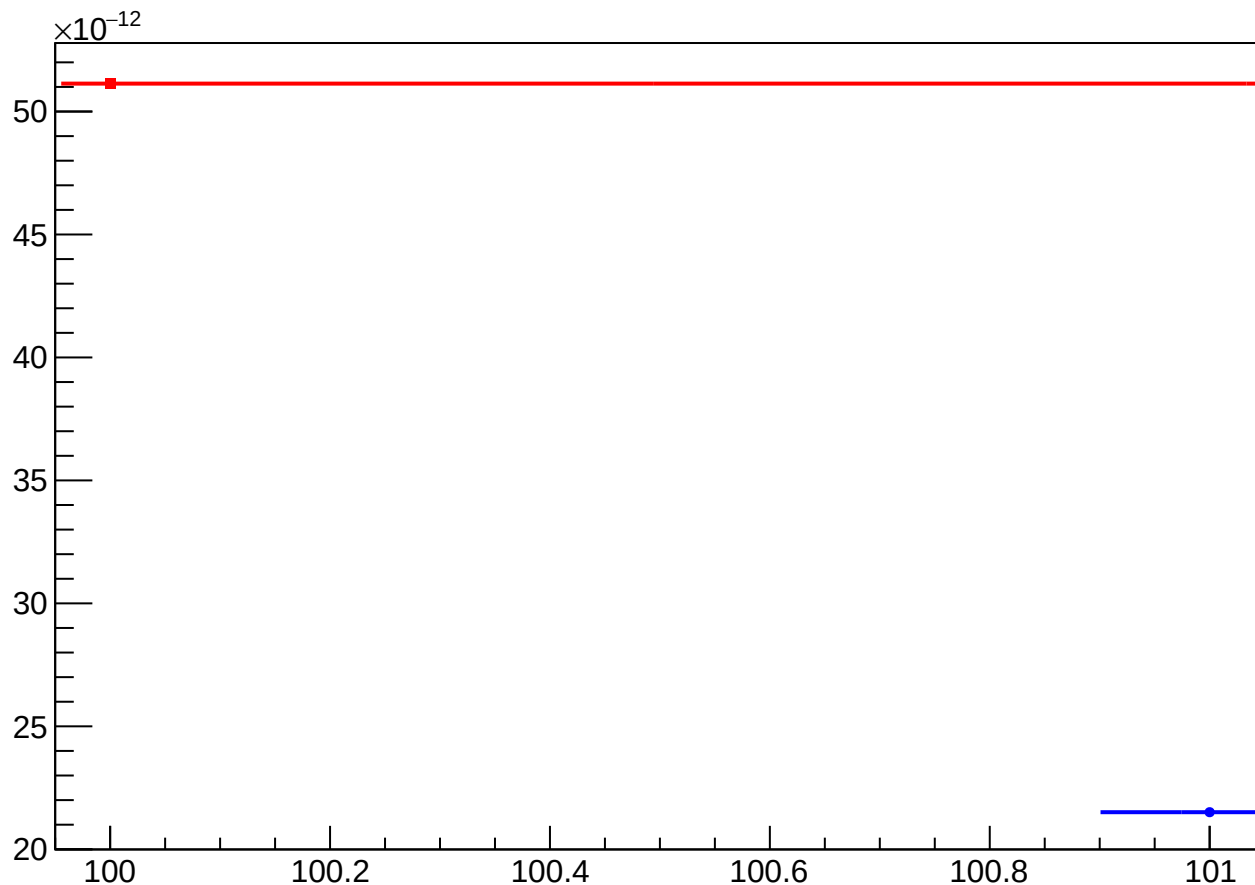
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.6/1

asym\_sam\_1526\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

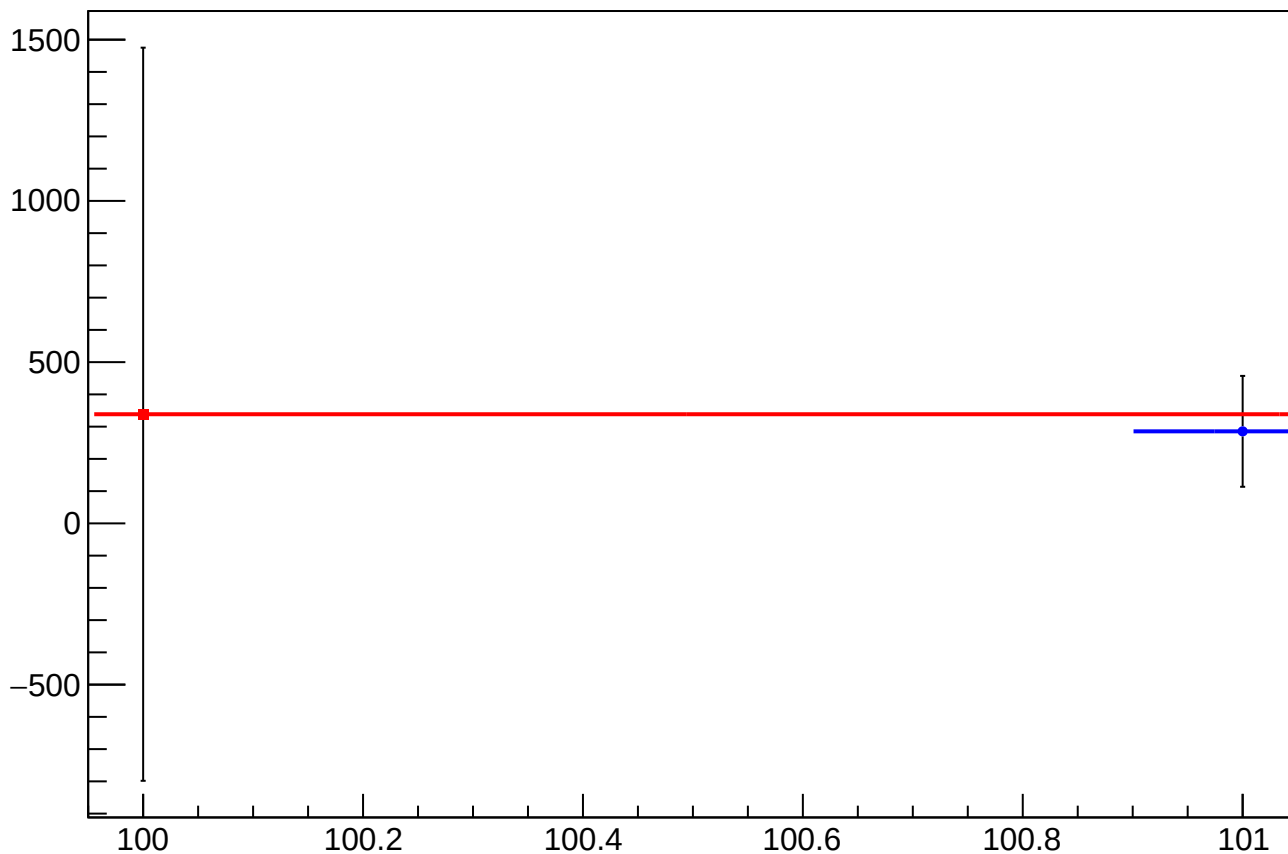
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33345.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33345.8/1

reg\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 285.422+/-171.919  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 338.469+/-1136.717  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

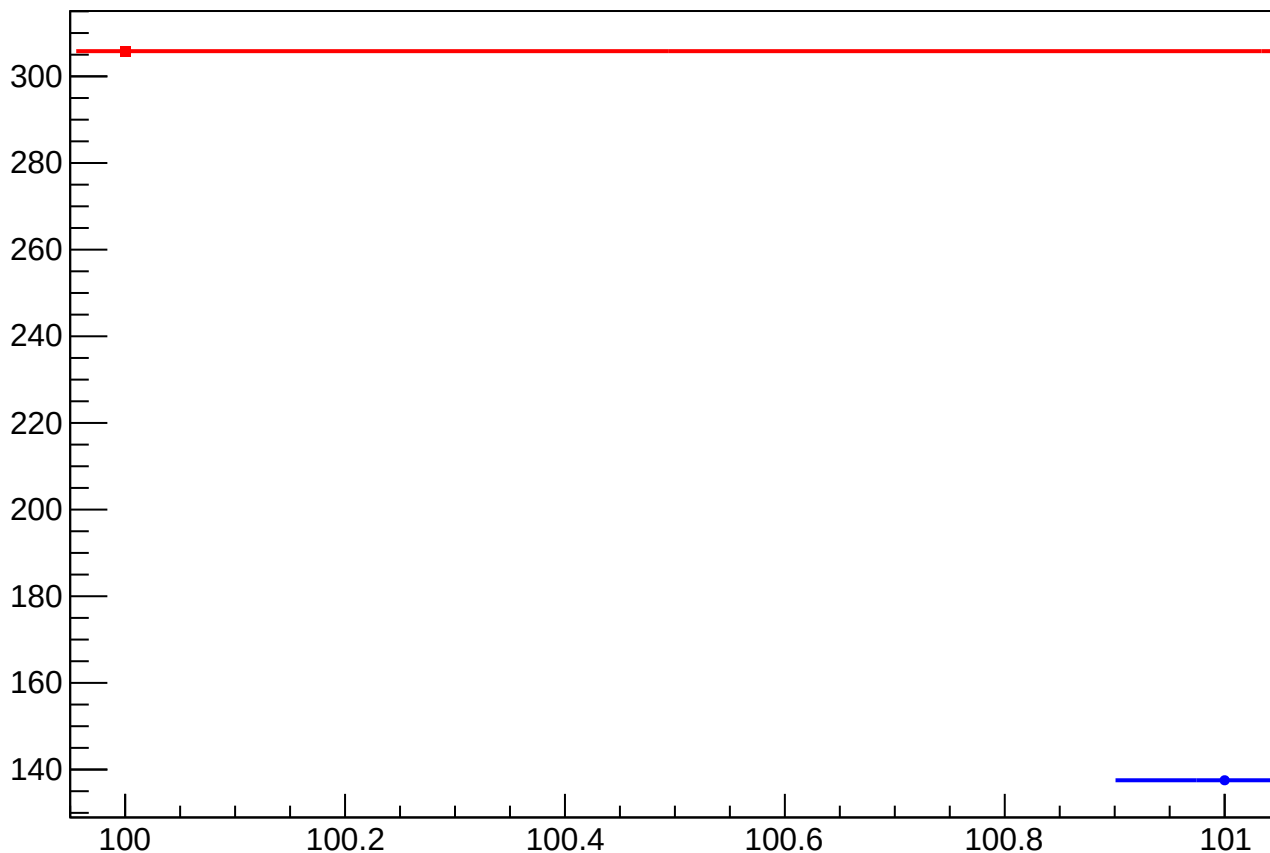
Right: 286.609+/-169.986  $\chi^2/\text{NDF}$ : 0.0/1

In: 285.422+/-171.919  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 286.609+/-169.986  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 137.523 $\pm$ 0.122  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 305.816 $\pm$ 0.804  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

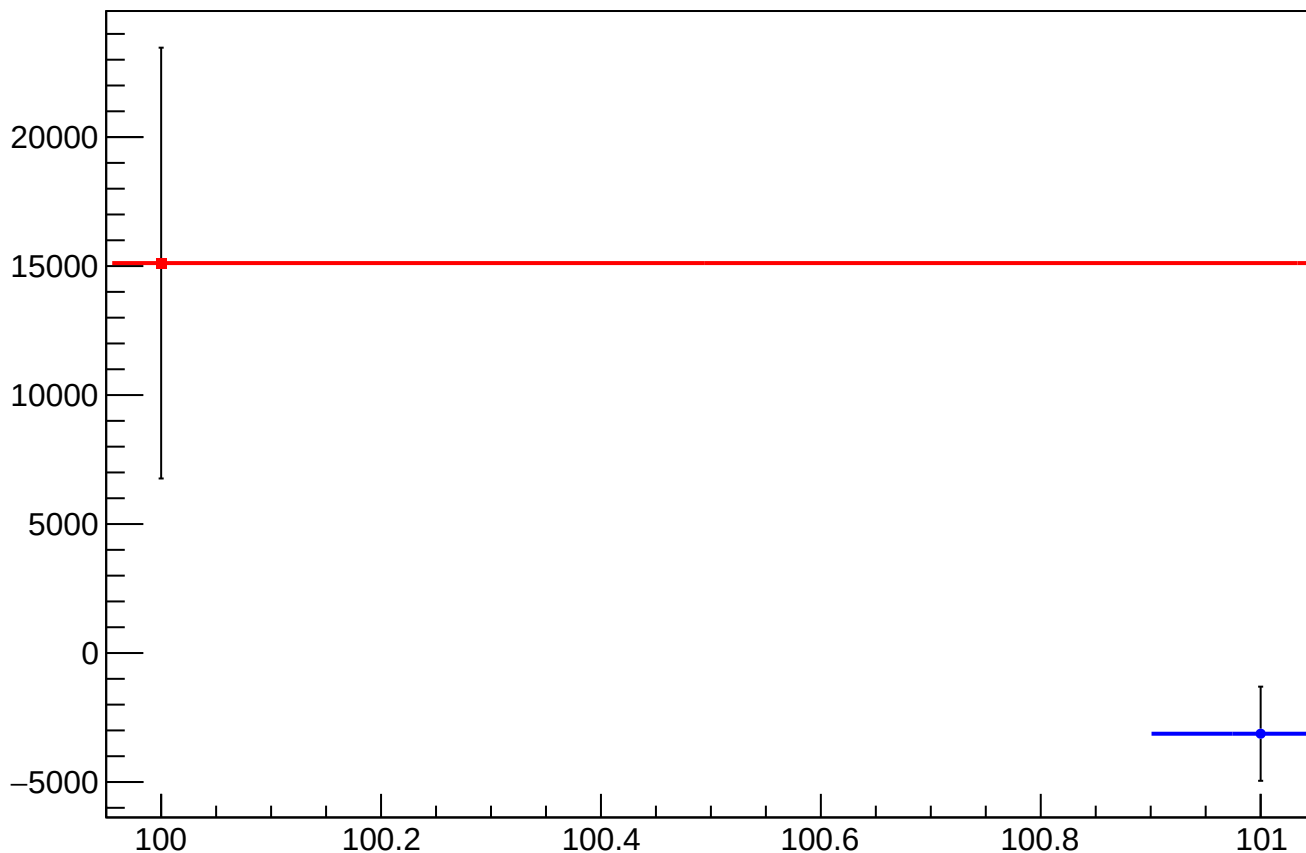
Right: 141.286 $\pm$ 0.120  $\chi^2$ /NDF: 42858.2/1

In: 137.523 $\pm$ 0.122  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 141.286 $\pm$ 0.120  $\chi^2$ /NDF: 42858.2/1

asym\_sam\_3726\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -3128.146+/-1824.760  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15116.263+/-8350.105  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

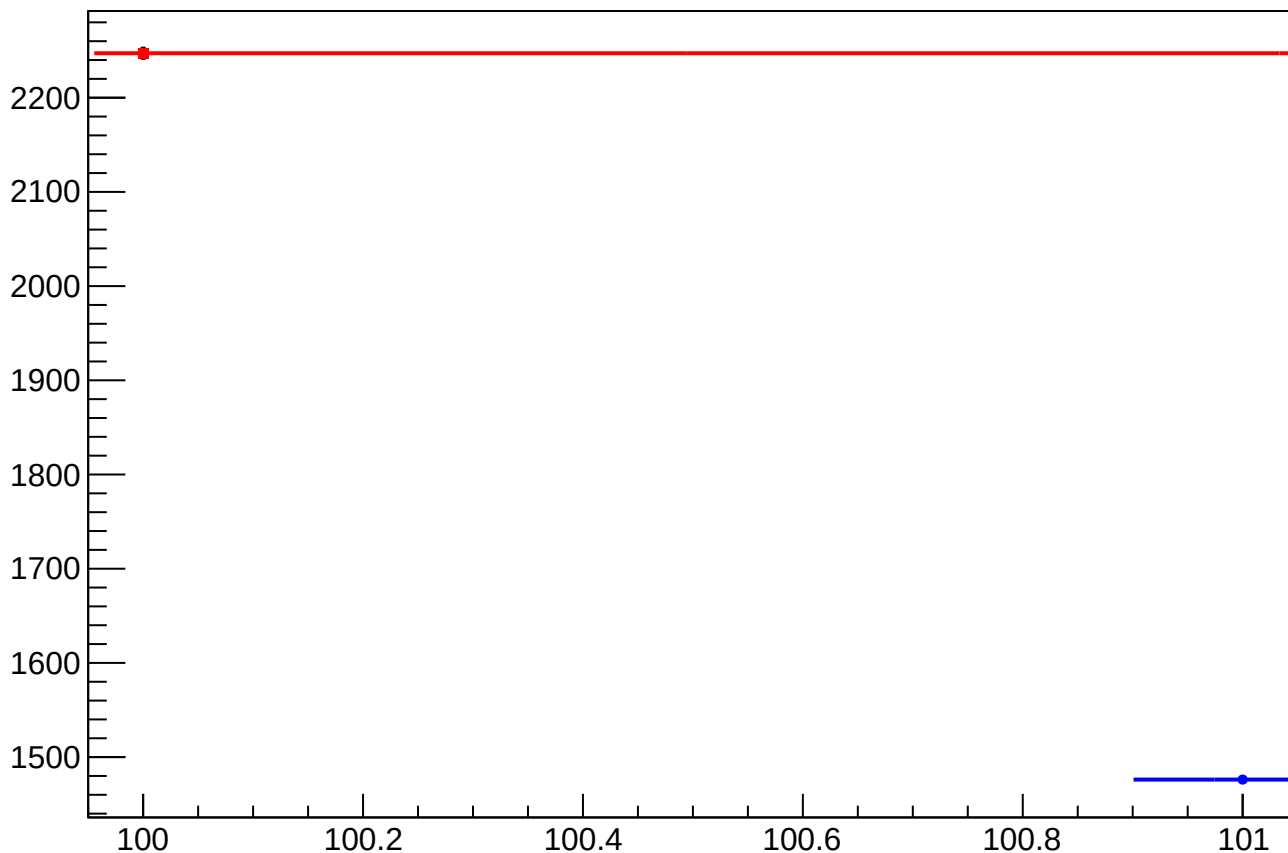
Right: -2296.579+/-1782.689  $\chi^2/\text{NDF}$ : 4.6/1

In: -3128.146+/-1824.760  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2296.579+/-1782.689  $\chi^2/\text{NDF}$ : 4.6/1

asym\_sam\_3726\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1476.142 $\pm$ 1.290  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2247.211 $\pm$ 5.904  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

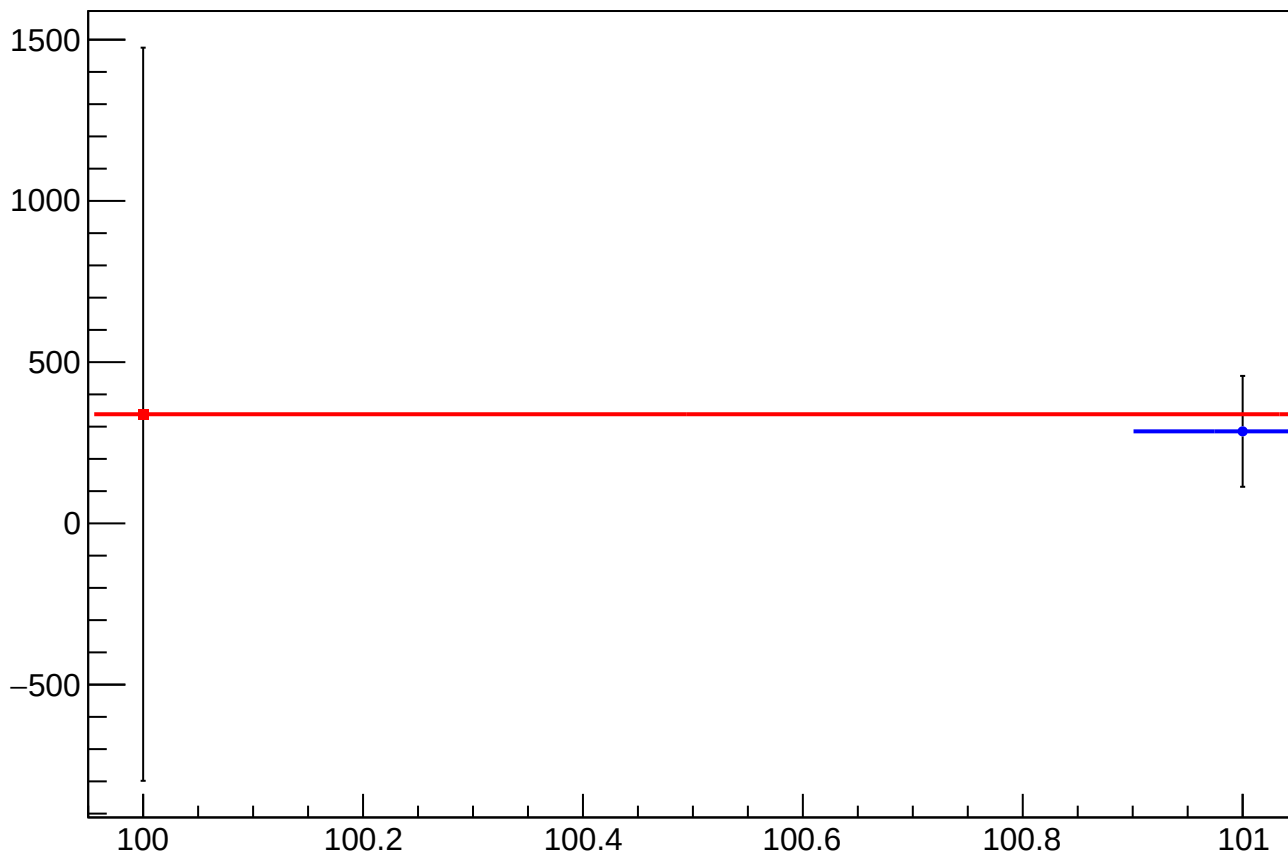
Right: 1511.287 $\pm$ 1.261  $\chi^2$ /NDF: 16276.9/1

In: 1476.142 $\pm$ 1.290  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1511.287 $\pm$ 1.261  $\chi^2$ /NDF: 16276.9/1

cor\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 285.414+/-171.919  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 338.486+/-1136.717  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

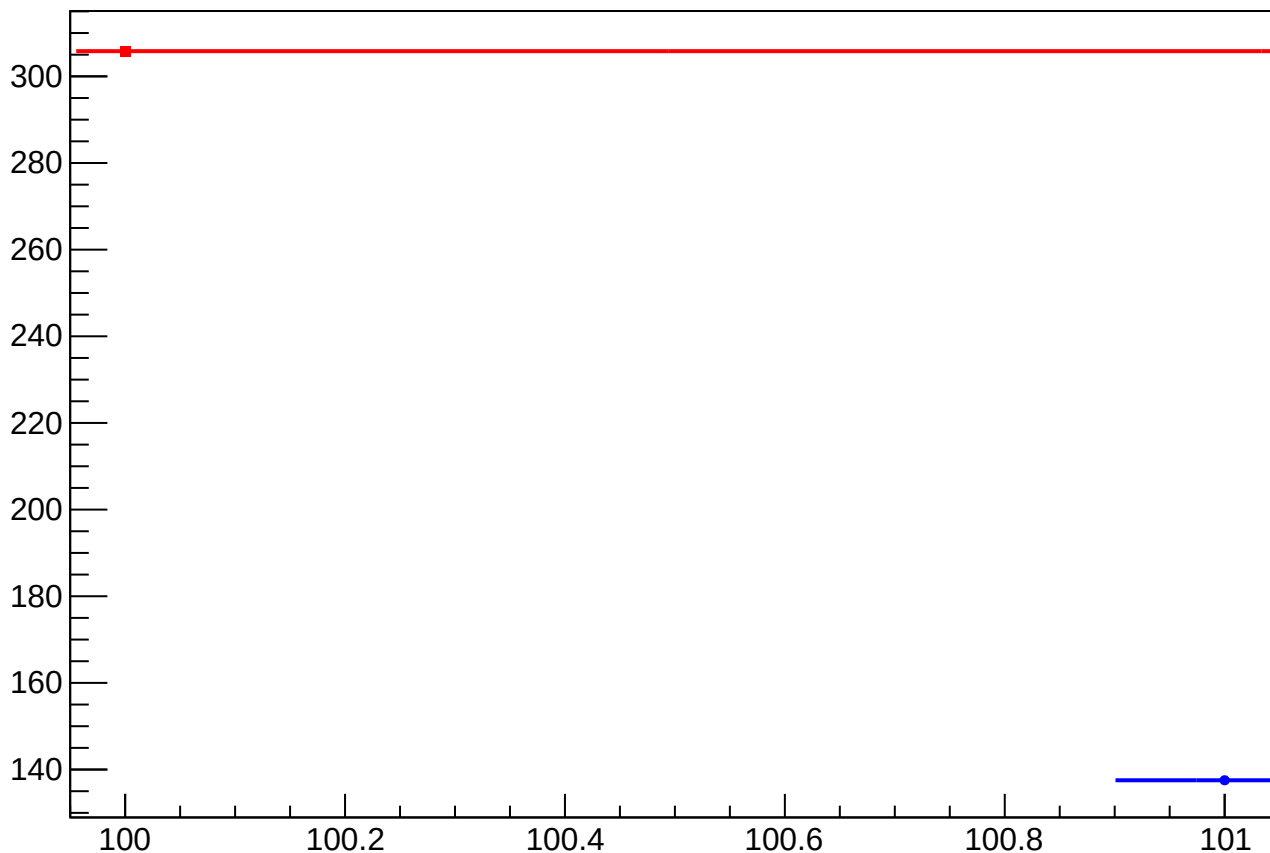
Right: 286.601+/-169.986  $\chi^2/\text{NDF}$ : 0.0/1

In: 285.414+/-171.919  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 286.601+/-169.986  $\chi^2/\text{NDF}$ : 0.0/1

cor\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 137.523 $\pm$ 0.122  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 305.816 $\pm$ 0.804  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 141.286 $\pm$ 0.120  $\chi^2$ /NDF: 42858.2/1

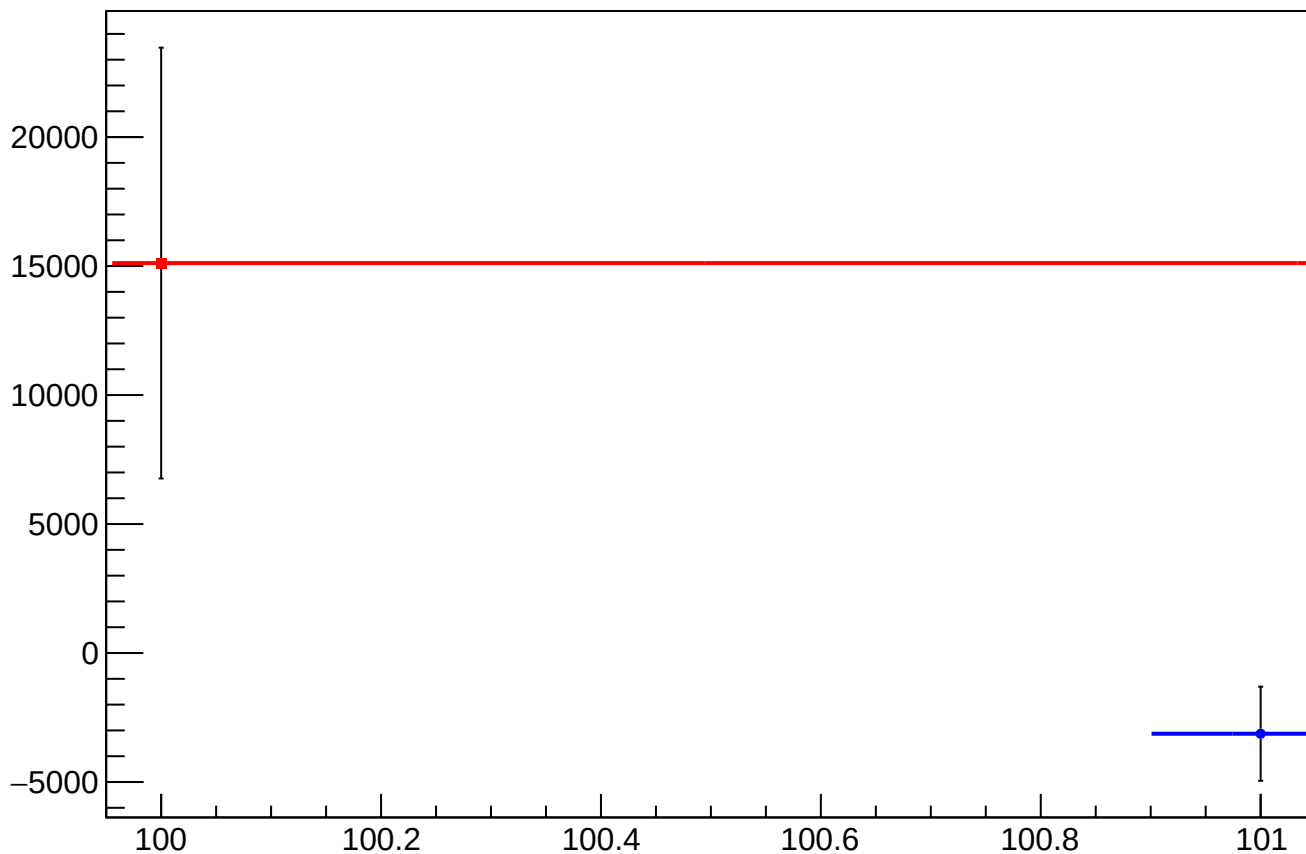
In: 137.523 $\pm$ 0.122  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 141.286 $\pm$ 0.120  $\chi^2$ /NDF: 42858.2/1



asym\_sam\_3726\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3128.124+/-1824.763  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15116.262+/-8350.110  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

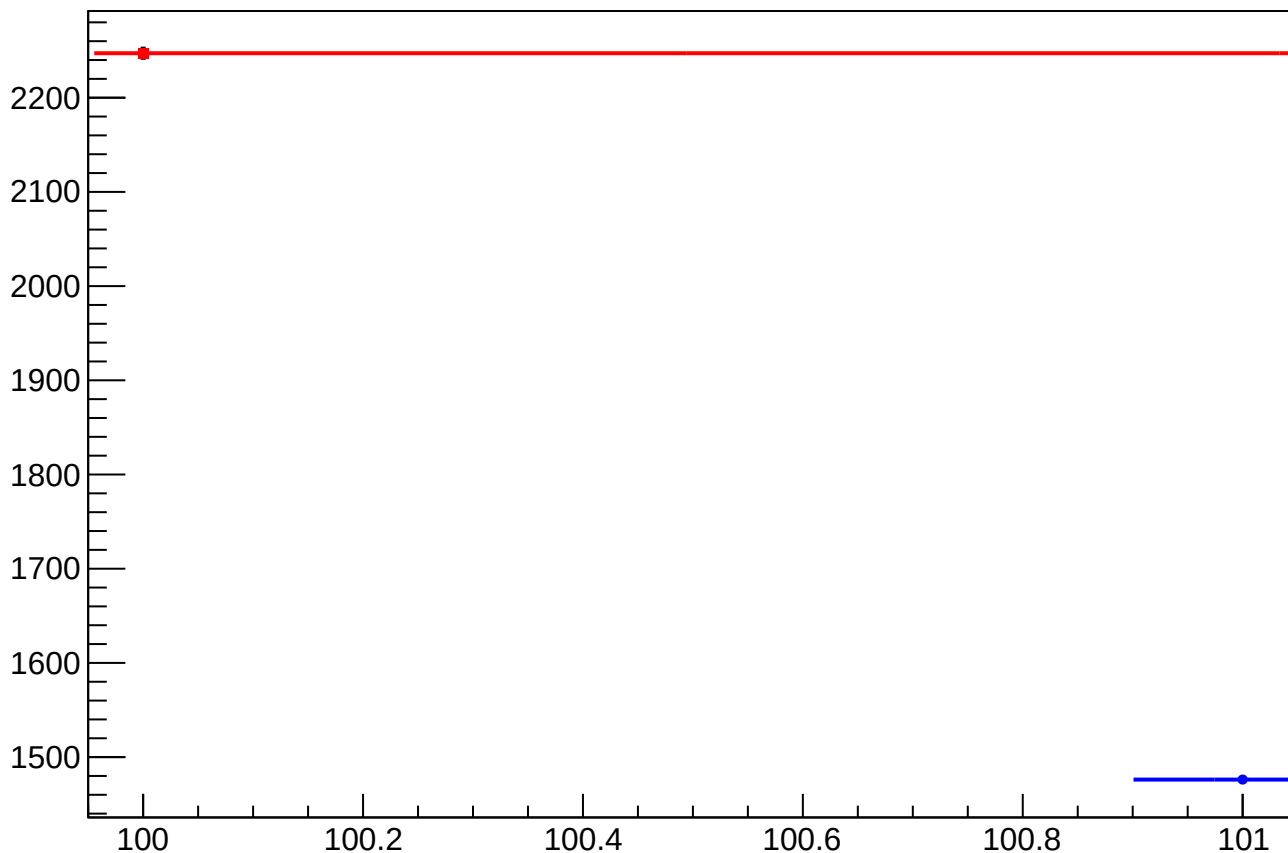
Right: -2296.557+/-1782.692  $\chi^2/\text{NDF}$ : 4.6/1

In: -3128.124+/-1824.763  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2296.557+/-1782.692  $\chi^2/\text{NDF}$ : 4.6/1

asym\_sam\_3726\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1476.144+/-1.290  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2247.213+/-5.904  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

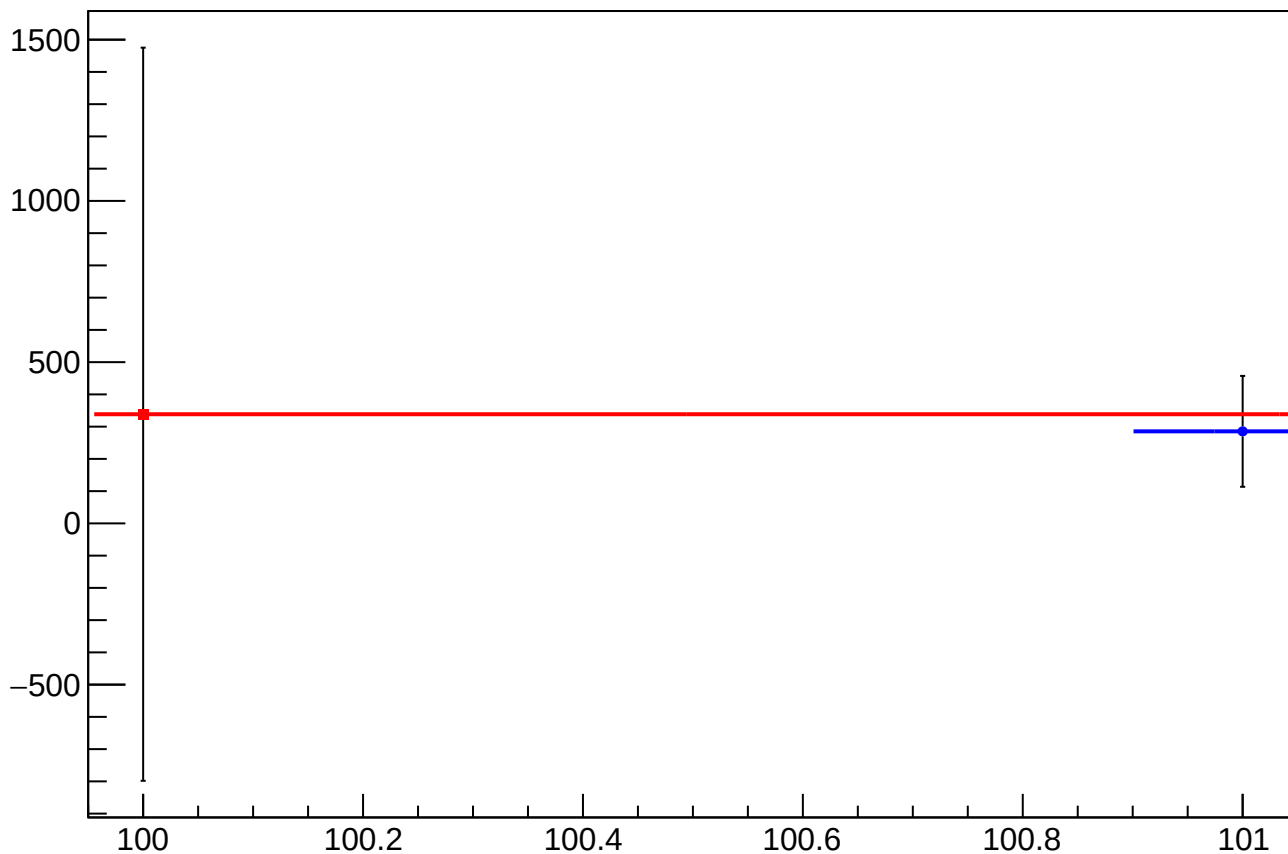
Right: 1511.289+/-1.261  $\chi^2/\text{NDF}$ : 16276.9/1

In: 1476.144+/-1.290  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1511.289+/-1.261  $\chi^2/\text{NDF}$ : 16276.9/1

eigen\_cor\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 285.414 $\pm$ 171.919  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 338.486 $\pm$ 1136.717  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

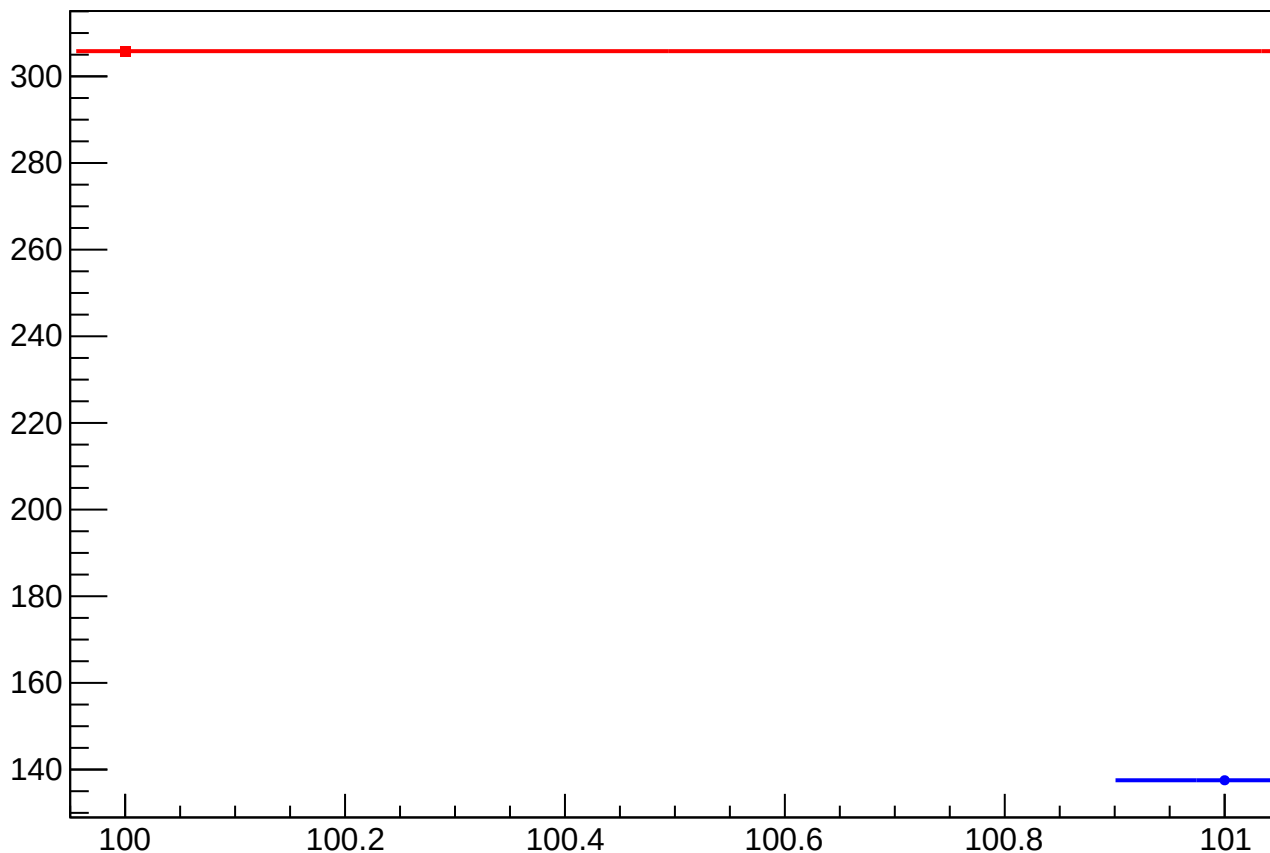
Right: 286.601 $\pm$ 169.986  $\chi^2$ /NDF: 0.0/1

In: 285.414 $\pm$ 171.919  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 286.601 $\pm$ 169.986  $\chi^2$ /NDF: 0.0/1

eigen\_cor\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 137.523+/-0.122  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 305.816+/-0.804  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

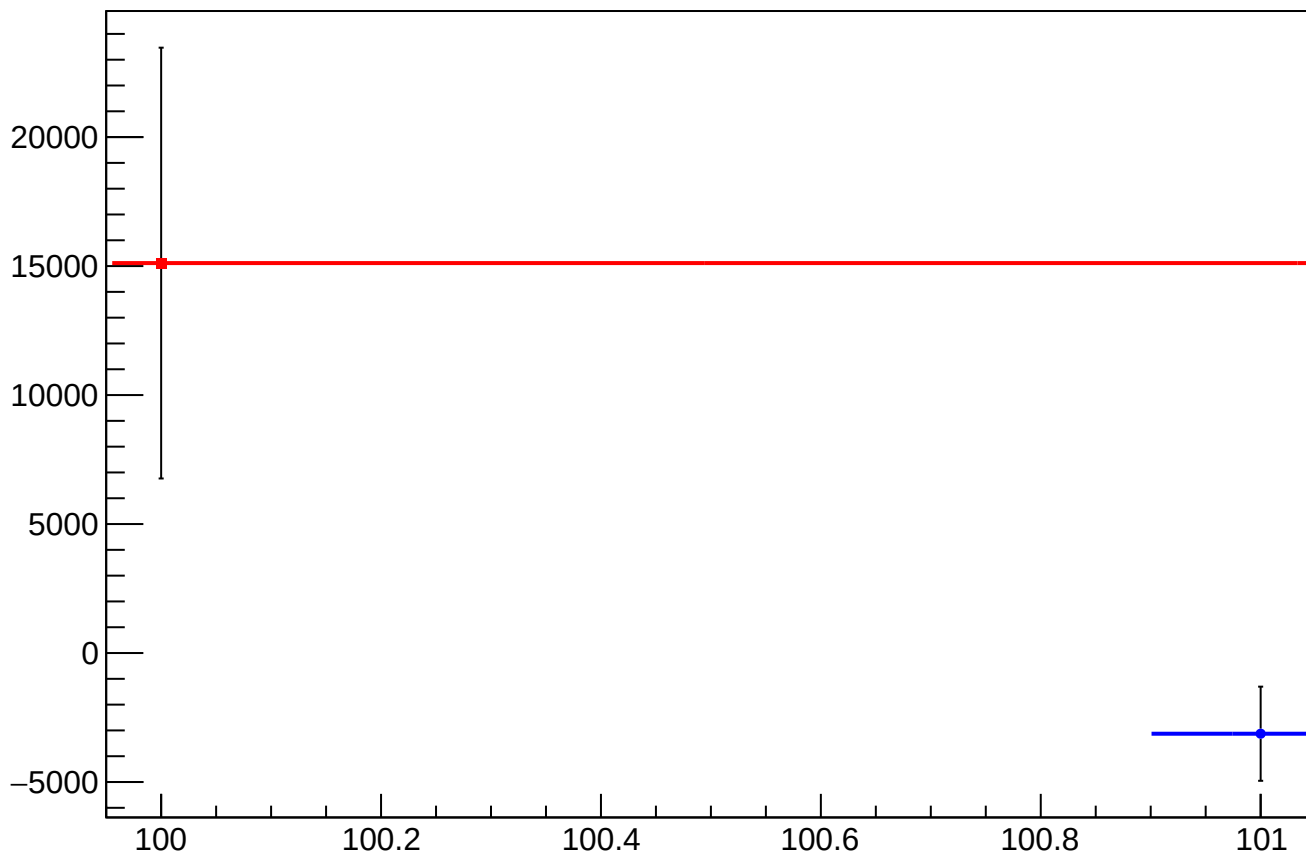
Right: 141.286+/-0.120  $\chi^2/\text{NDF}$ : 42858.2/1

In: 137.523+/-0.122  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 141.286+/-0.120  $\chi^2/\text{NDF}$ : 42858.2/1

asym\_sam\_3726\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3128.124+/-1824.763  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15116.262+/-8350.110  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

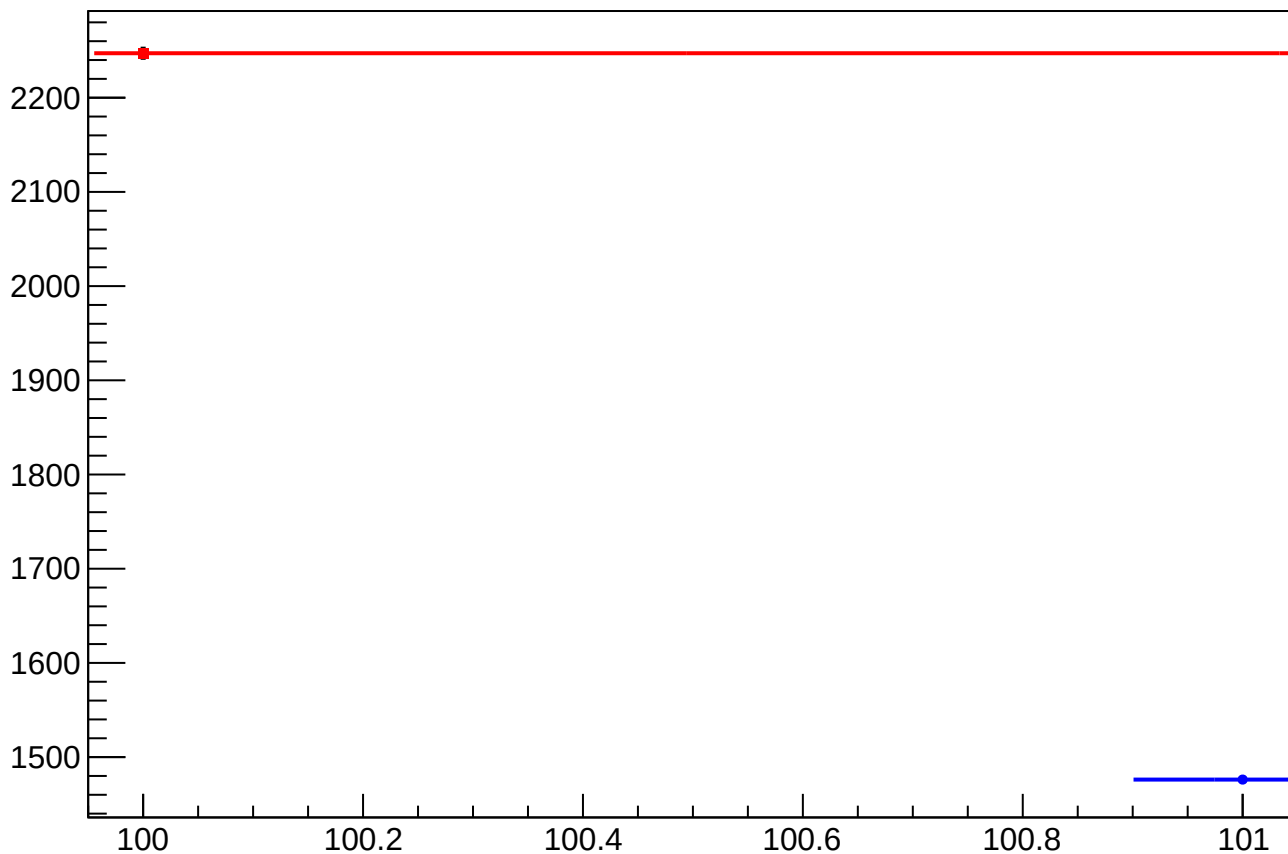
Right: -2296.557+/-1782.692  $\chi^2/\text{NDF}$ : 4.6/1

In: -3128.124+/-1824.763  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2296.557+/-1782.692  $\chi^2/\text{NDF}$ : 4.6/1

asym\_sam\_3726\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1476.144+/-1.290  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2247.213+/-5.904  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

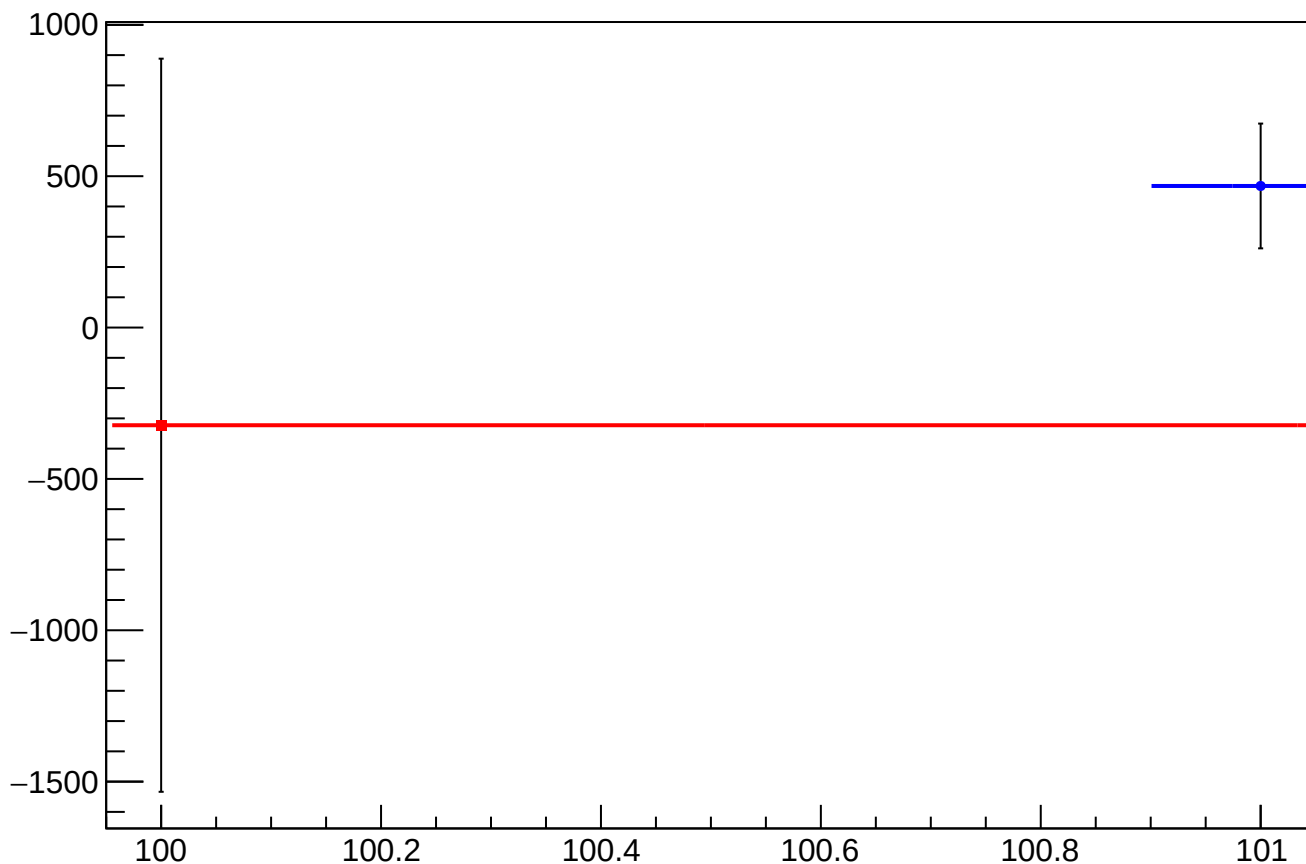
Right: 1511.289+/-1.261  $\chi^2/\text{NDF}$ : 16276.9/1

In: 1476.144+/-1.290  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1511.289+/-1.261  $\chi^2/\text{NDF}$ : 16276.9/1

dit\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 467.727 $\pm$ 206.095  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -322.680 $\pm$ 1210.932  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

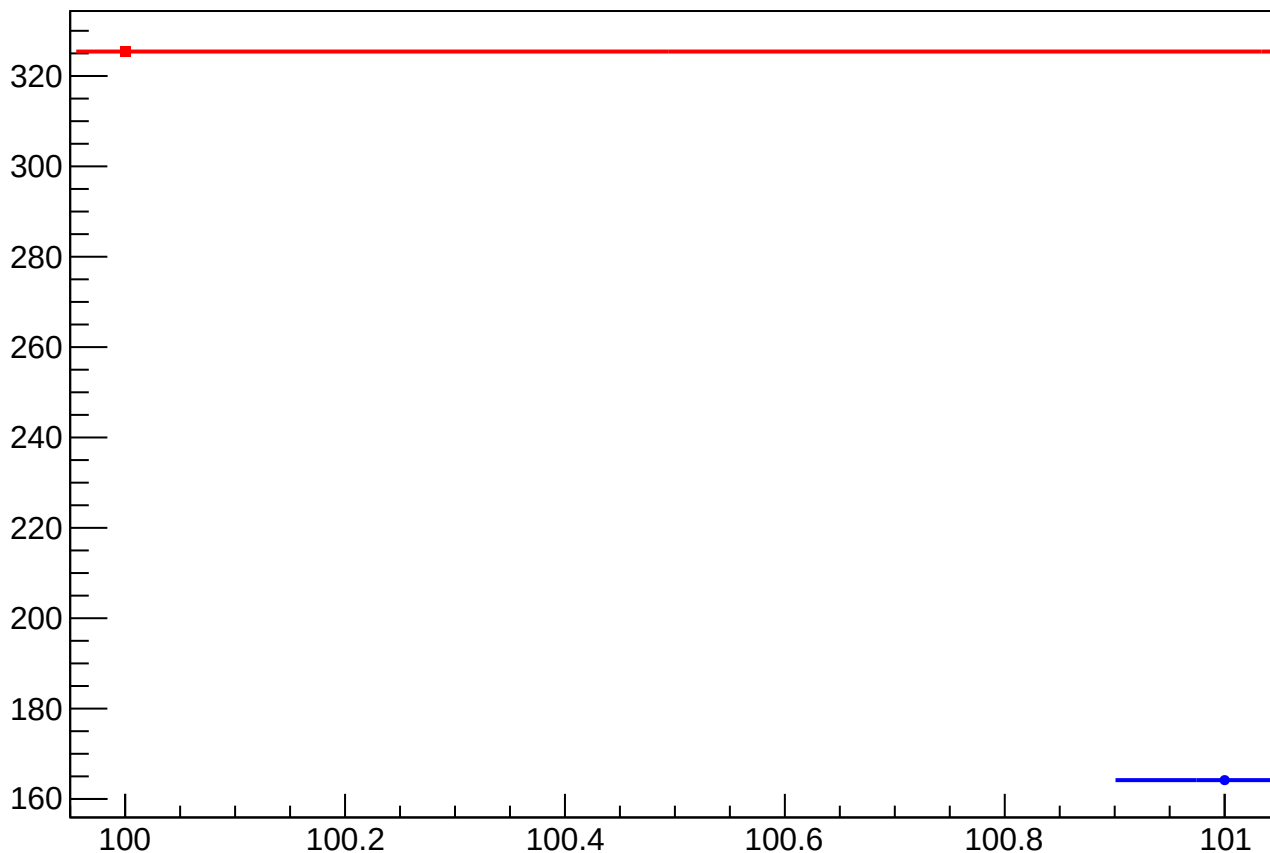
Right: 445.477 $\pm$ 203.173  $\chi^2$ /NDF: 0.4/1

In: 467.727 $\pm$ 206.095  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 445.477 $\pm$ 203.173  $\chi^2$ /NDF: 0.4/1

dit\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 164.168 $\pm$ 0.146  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 325.411 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 168.707 $\pm$ 0.144  $\chi^2$ /NDF: 34463.1/1

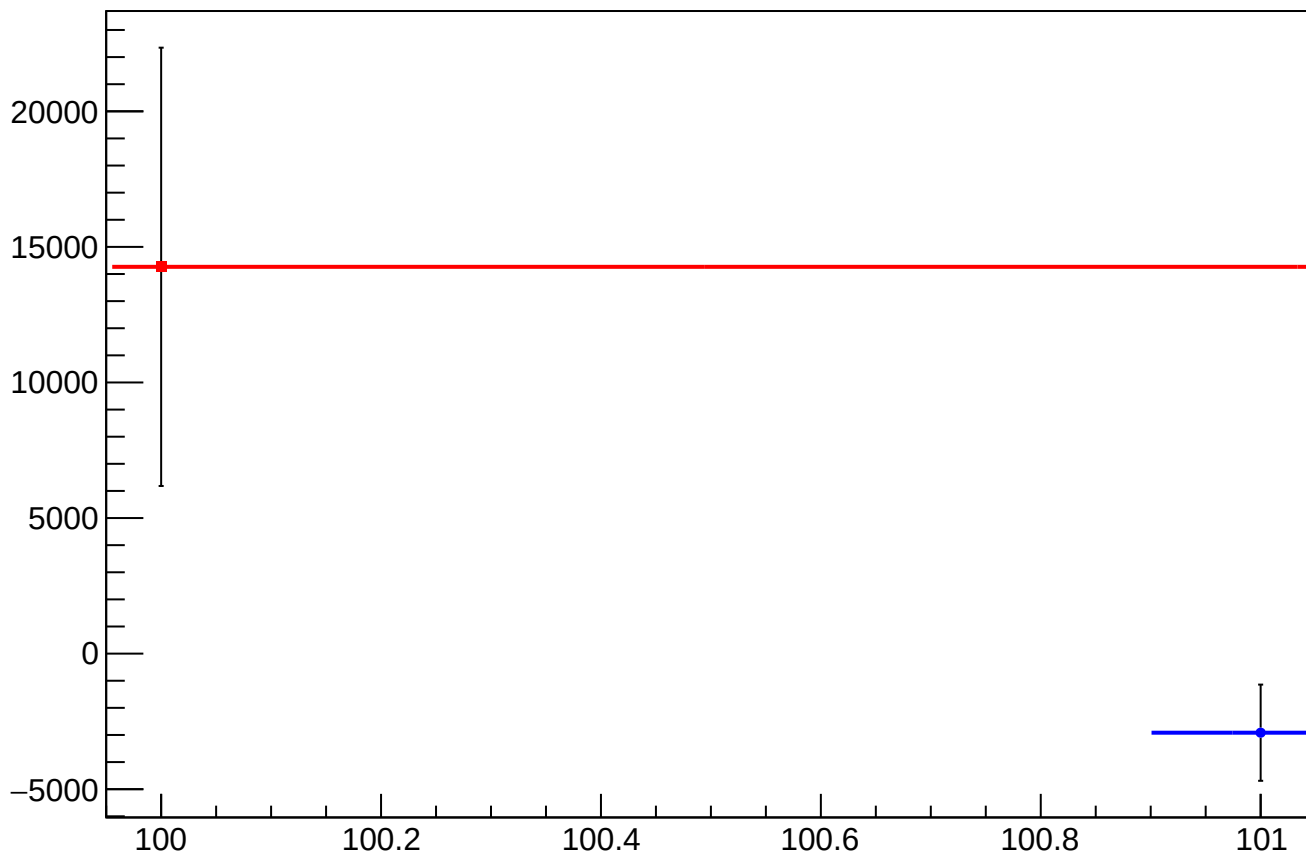
In: 164.168 $\pm$ 0.146  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 168.707 $\pm$ 0.144  $\chi^2$ /NDF: 34463.1/1



asym\_sam\_3726\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2916.343+/-1773.949  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14264.803+/-8082.470  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

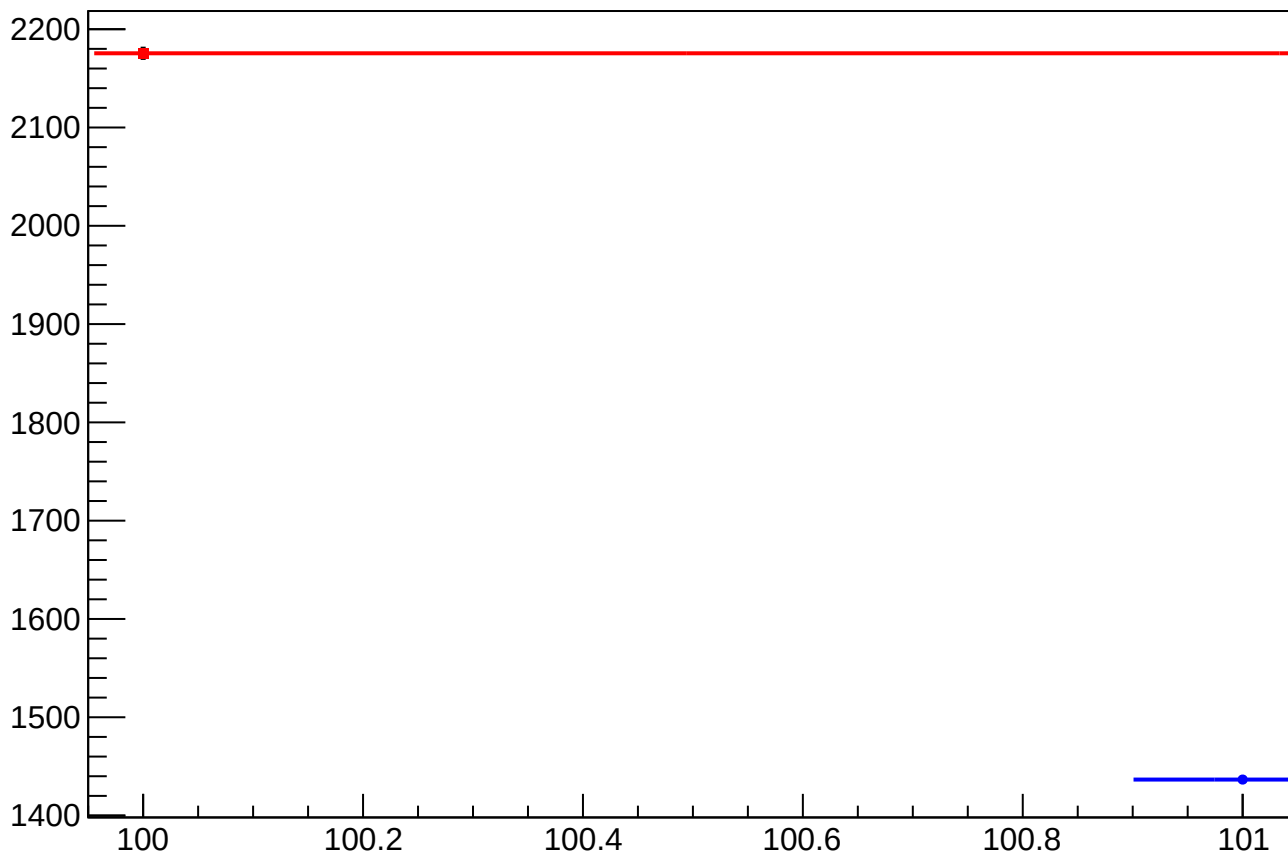
Right: -2126.731+/-1732.706  $\chi^2$ /NDF: 4.3/1

In: -2916.343+/-1773.949  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2126.731+/-1732.706  $\chi^2$ /NDF: 4.3/1

asym\_sam\_3726\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1436.611 $\pm$ 1.254  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2175.498 $\pm$ 5.715  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

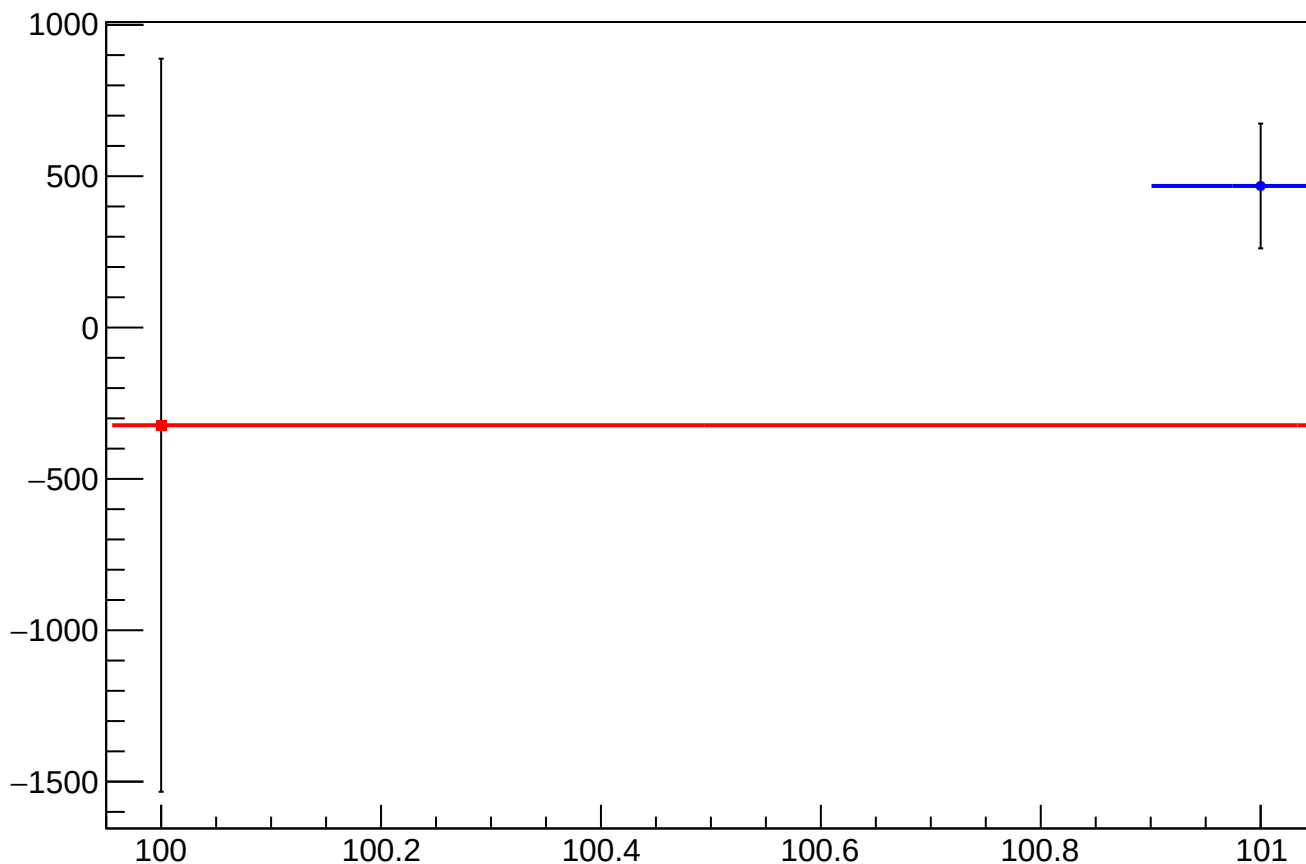
Right: 1470.569 $\pm$ 1.225  $\chi^2$ /NDF: 15946.5/1

In: 1436.611 $\pm$ 1.254  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1470.569 $\pm$ 1.225  $\chi^2$ /NDF: 15946.5/1

eigen\_dit\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 467.731 $\pm$ 206.095  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -322.695 $\pm$ 1210.935  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

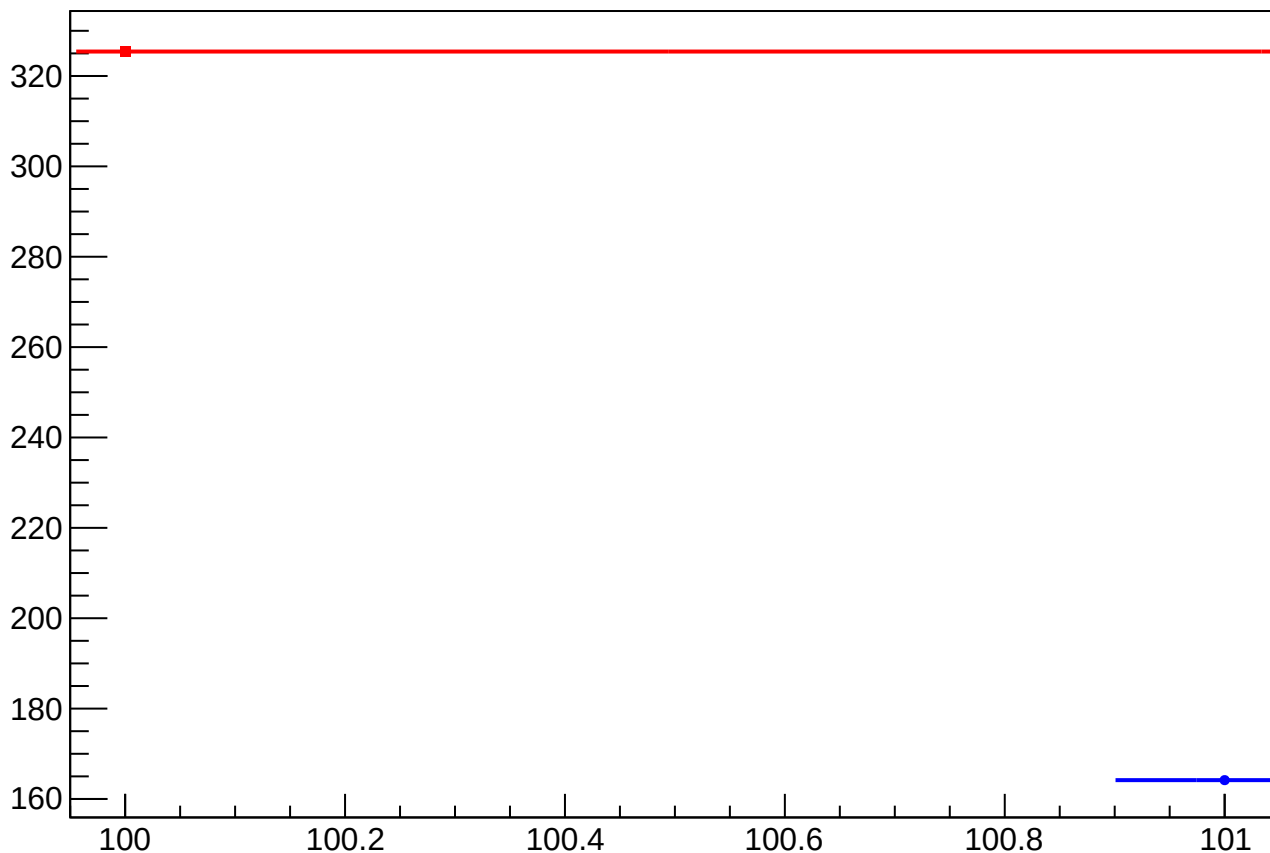
Right: 445.479 $\pm$ 203.174  $\chi^2$ /NDF: 0.4/1

In: 467.731 $\pm$ 206.095  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 445.479 $\pm$ 203.174  $\chi^2$ /NDF: 0.4/1

eigen\_dit\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 164.168 $\pm$ 0.146  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 325.412 $\pm$ 0.856  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

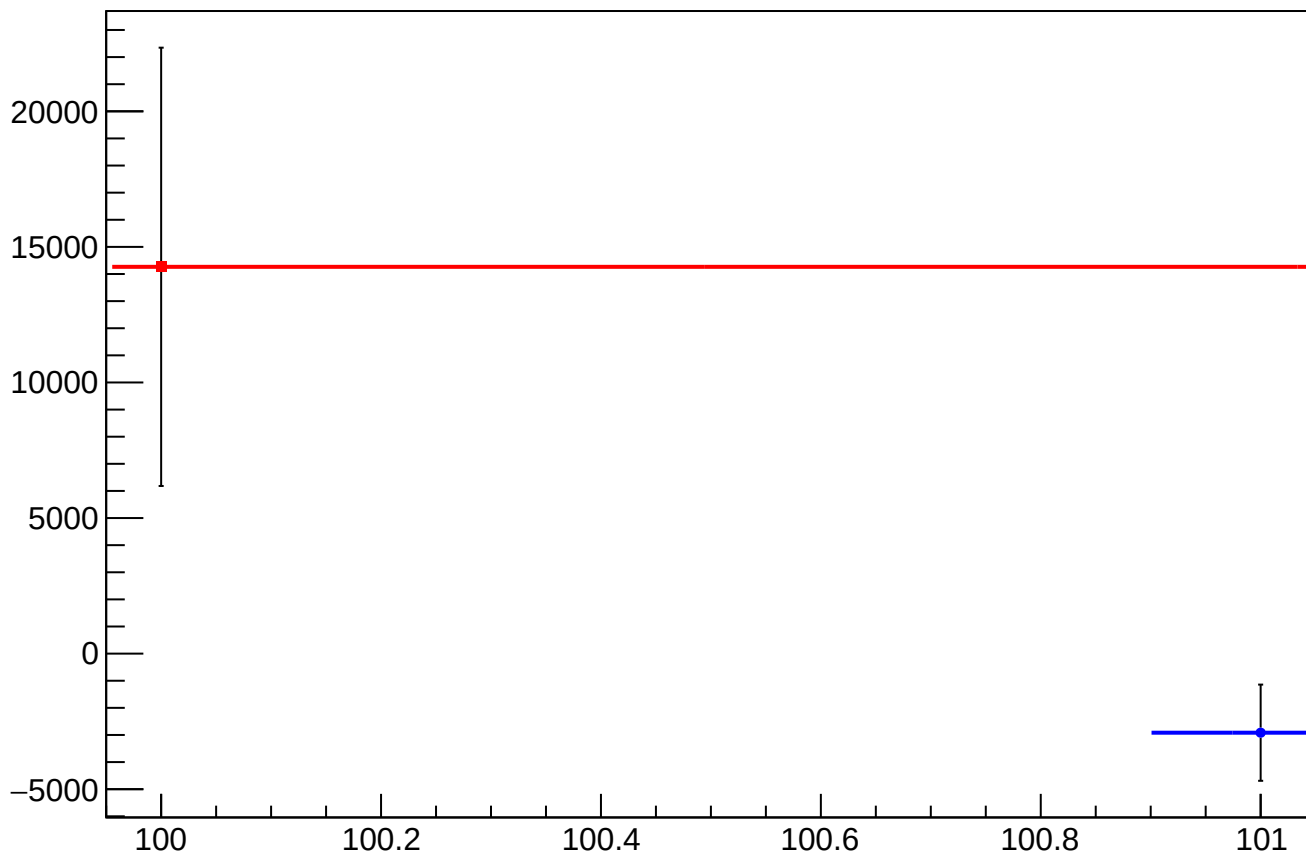
Right: 168.707 $\pm$ 0.144  $\chi^2$ /NDF: 34463.0/1

In: 164.168 $\pm$ 0.146  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 168.707 $\pm$ 0.144  $\chi^2$ /NDF: 34463.0/1

asym\_sam\_3726\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2916.339+/-1773.947  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14264.786+/-8082.460  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

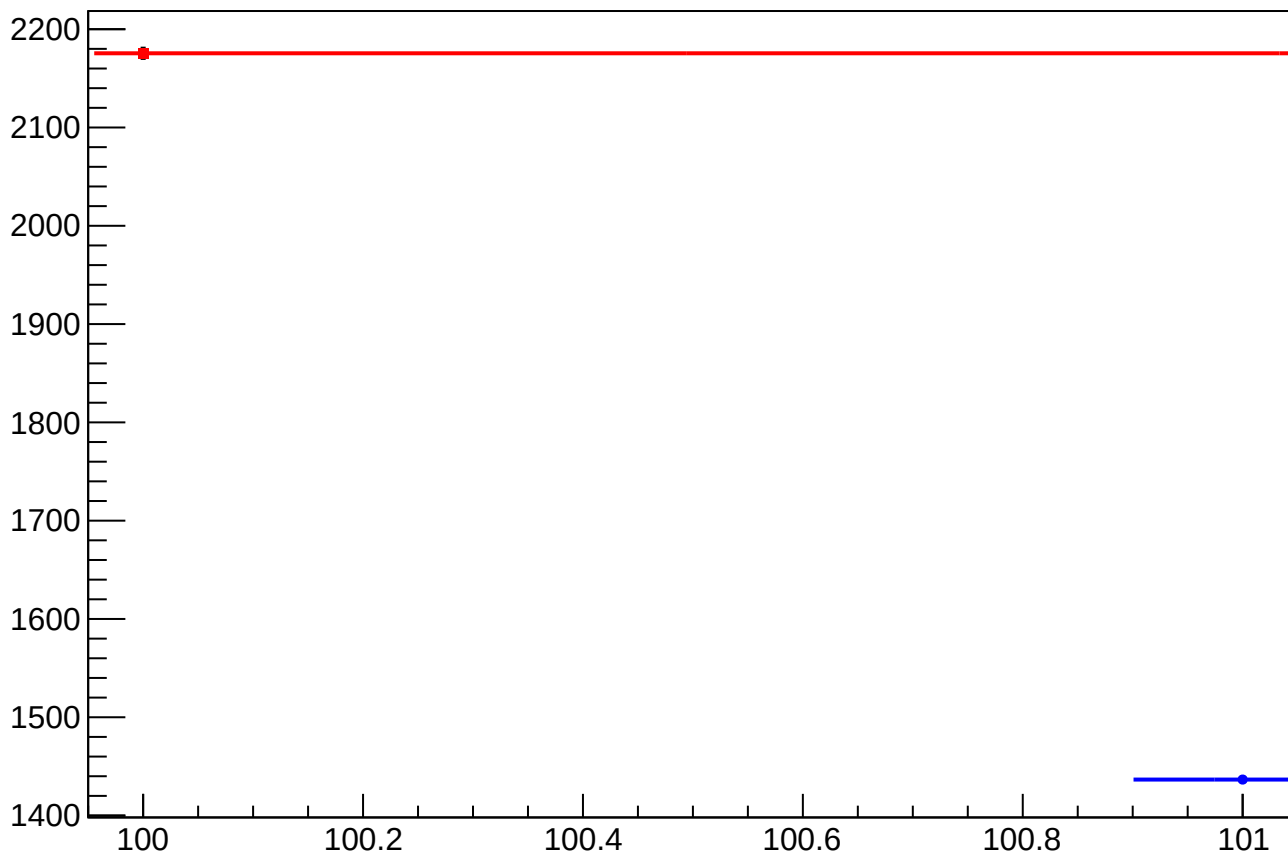
Right: -2126.728+/-1732.704  $\chi^2$ /NDF: 4.3/1

In: -2916.339+/-1773.947  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2126.728+/-1732.704  $\chi^2$ /NDF: 4.3/1

asym\_sam\_3726\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1436.609 $\pm$ 1.254  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2175.496 $\pm$ 5.715  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

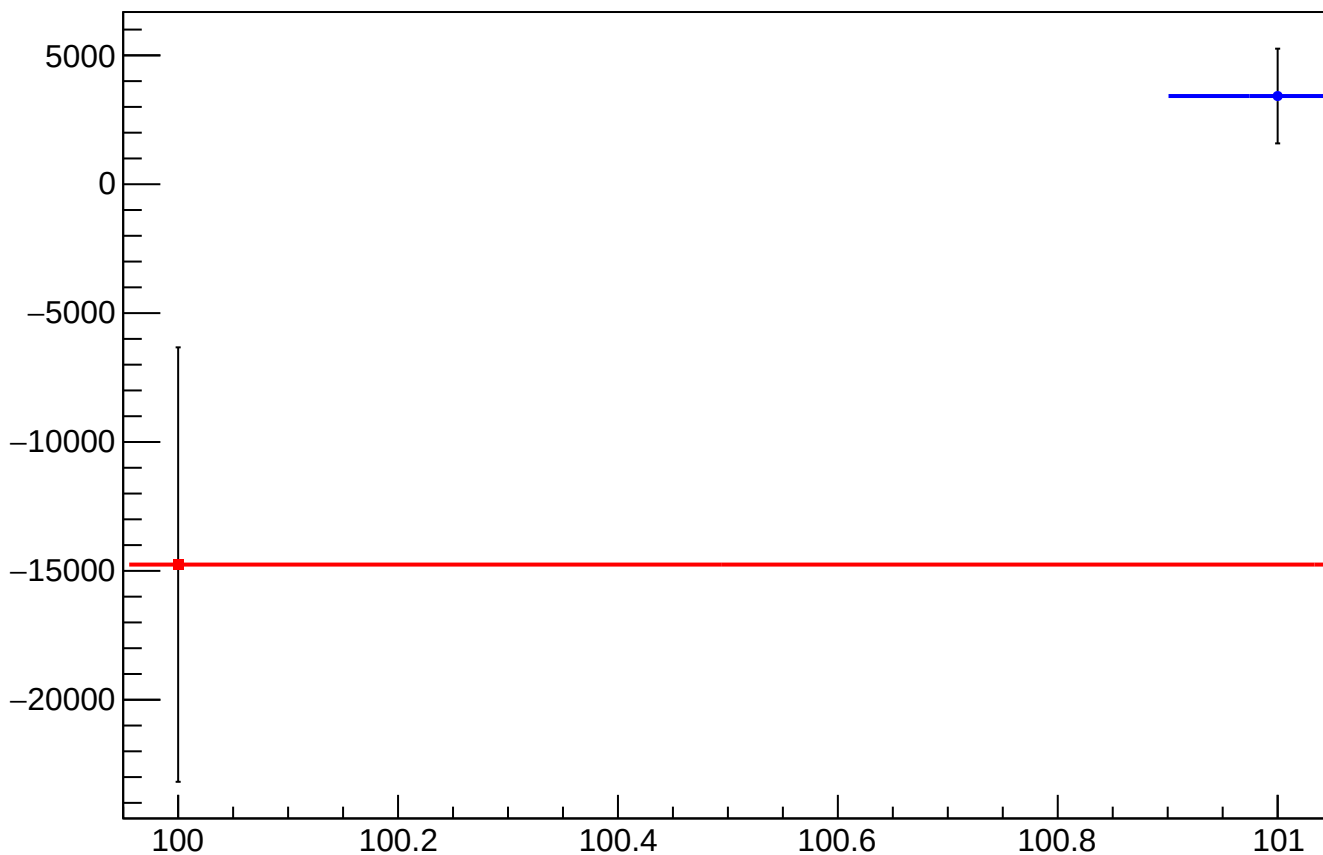
Right: 1470.567 $\pm$ 1.225  $\chi^2$ /NDF: 15946.5/1

In: 1436.609 $\pm$ 1.254  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1470.567 $\pm$ 1.225  $\chi^2$ /NDF: 15946.5/1

asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 3422.053+/-1837.173  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14755.380+/-8427.289  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

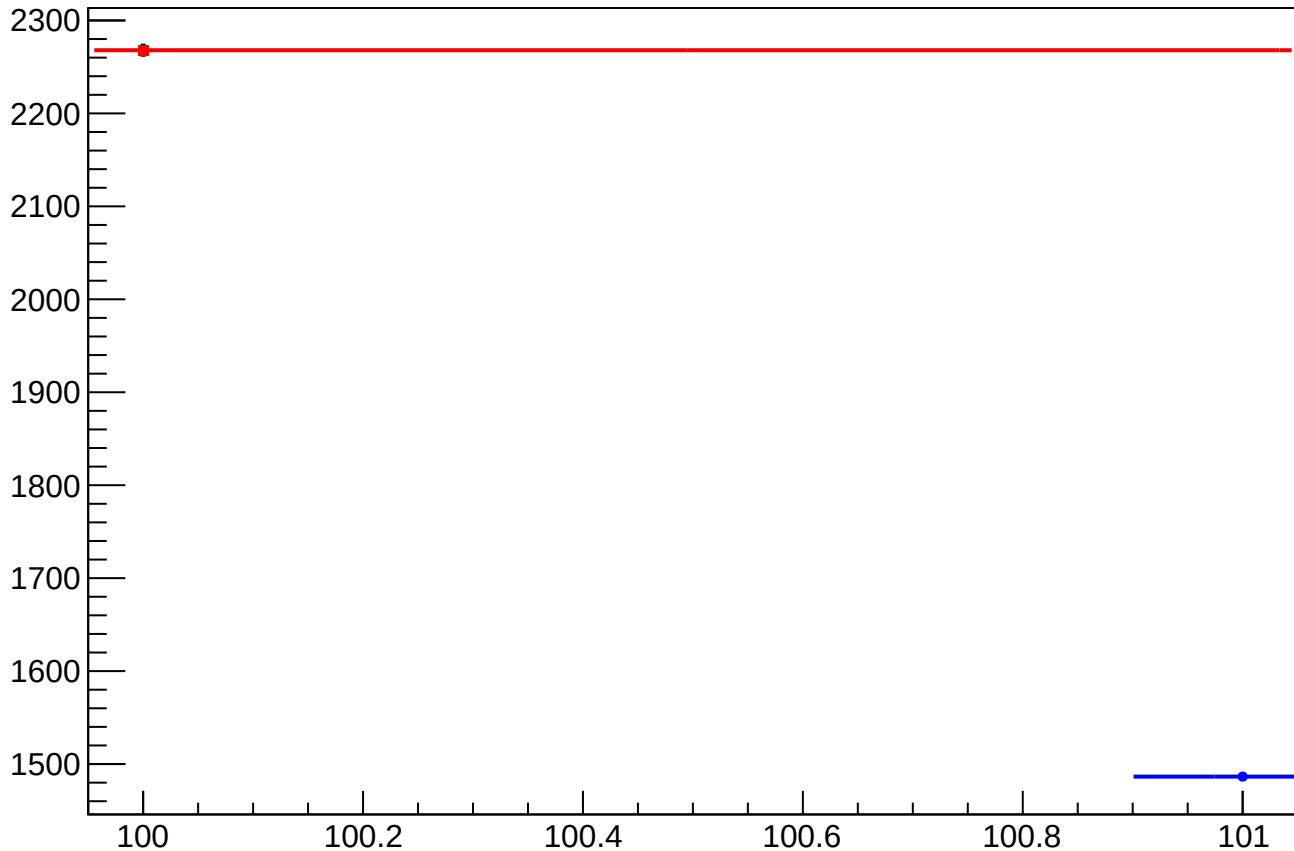
Right: 2597.360+/-1795.014  $\chi^2/\text{NDF}$ : 4.4/1

In: 3422.053+/-1837.173  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2597.360+/-1795.014  $\chi^2/\text{NDF}$ : 4.4/1

asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 1486.515 $\pm$ 1.299  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2267.980 $\pm$ 5.959  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1521.970 $\pm$ 1.269  $\chi^2$ /NDF: 16417.6/1

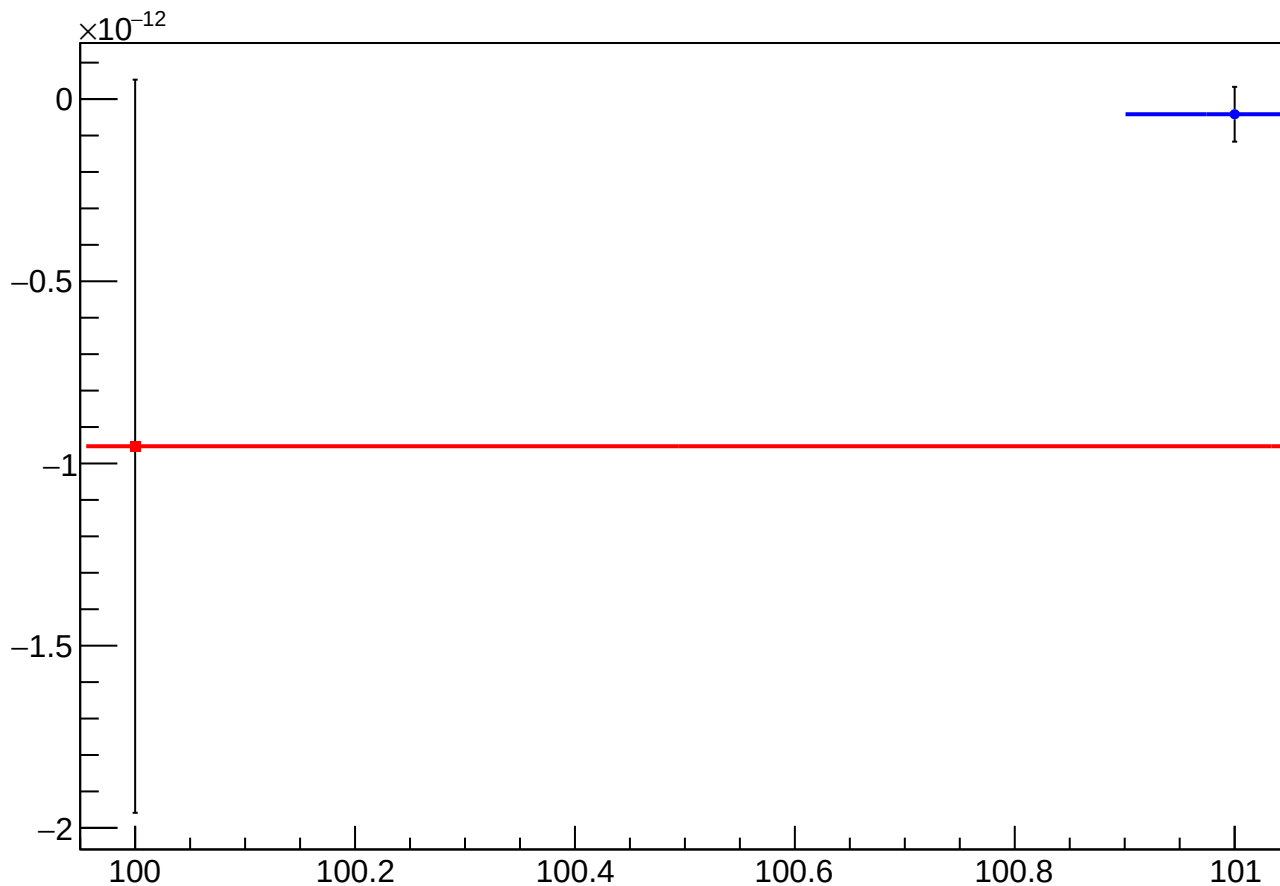
In: 1486.515 $\pm$ 1.299  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1521.970 $\pm$ 1.269  $\chi^2$ /NDF: 16417.6/1



asym\_sam\_3726\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

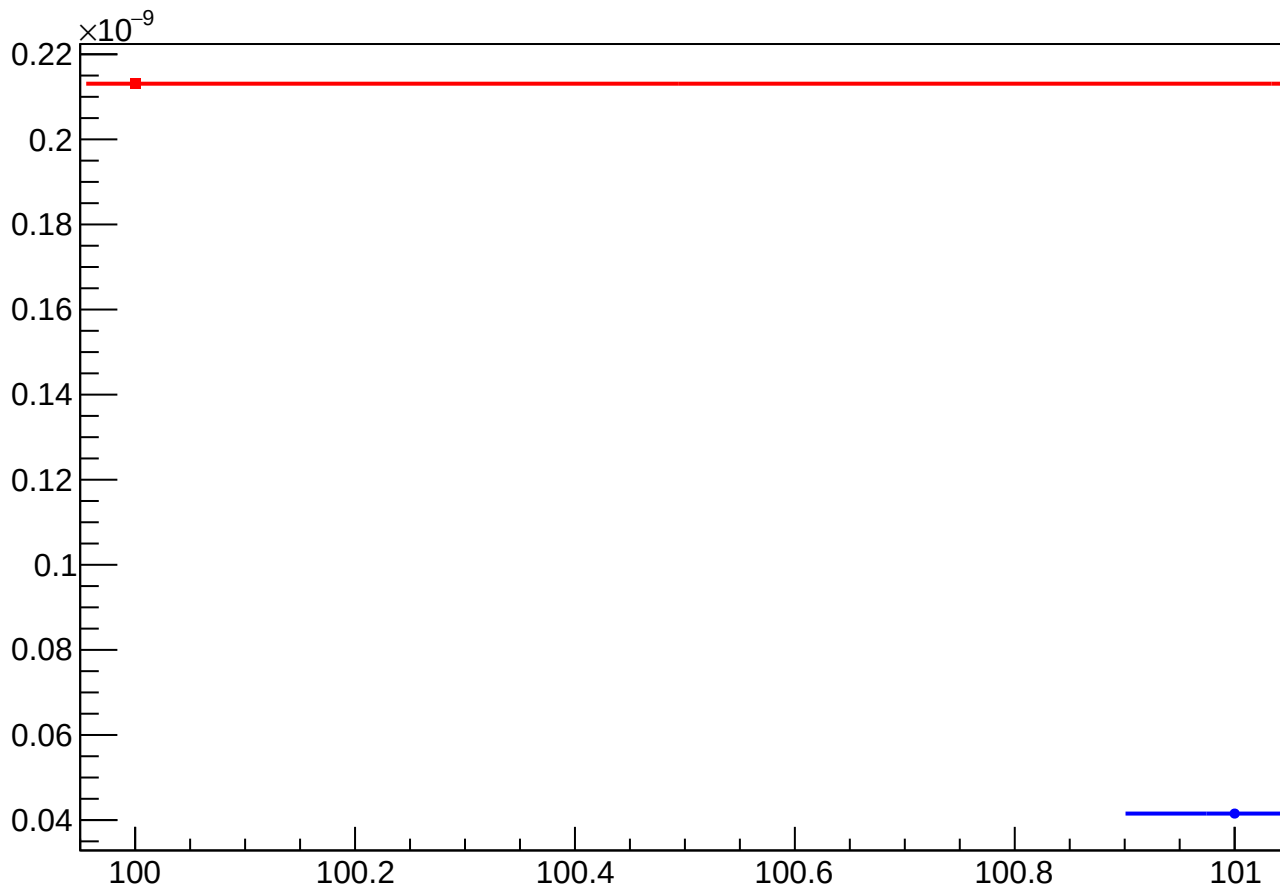
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.8/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.8/1

asym\_sam\_3726\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

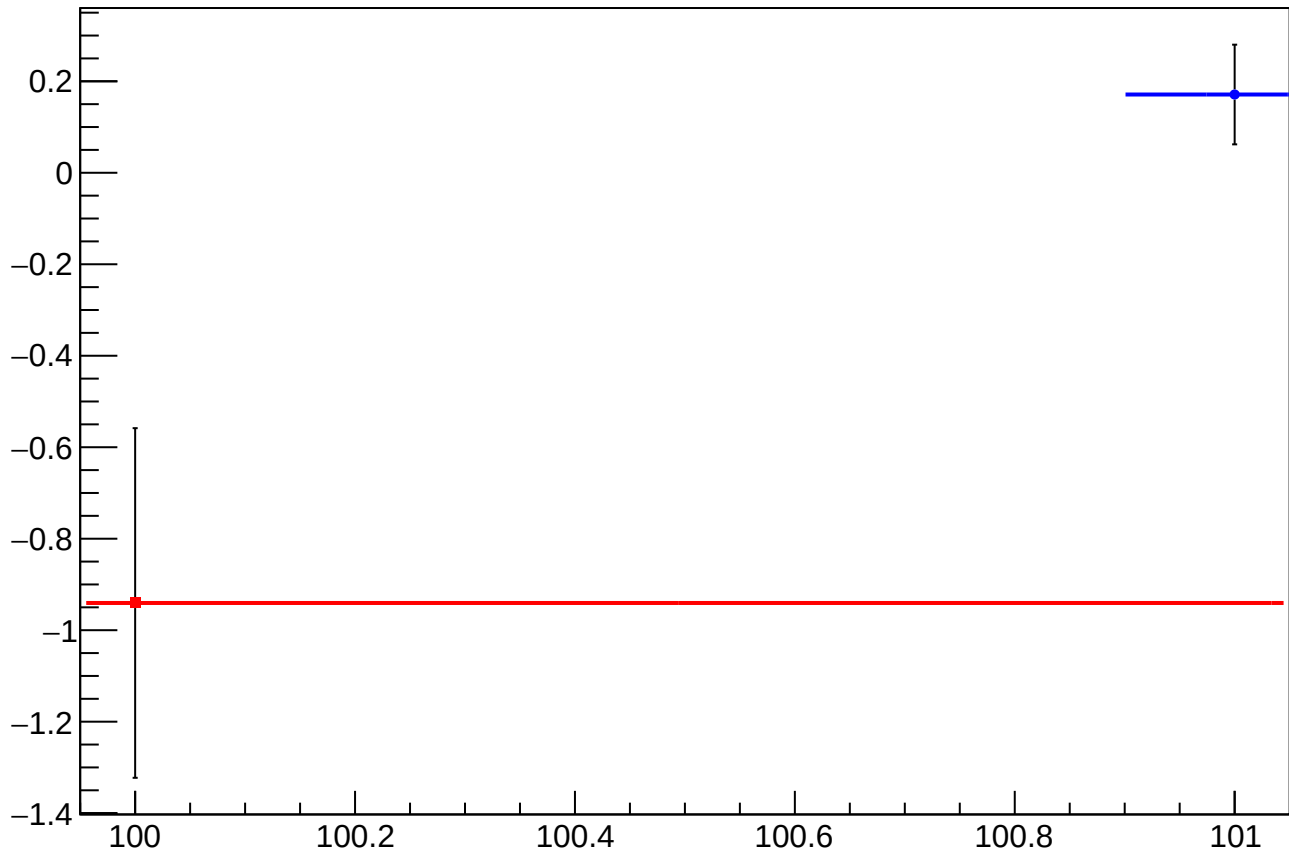
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 57845.8/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 57845.8/1

asym\_sam\_3726\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.171+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.940+/-0.382  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

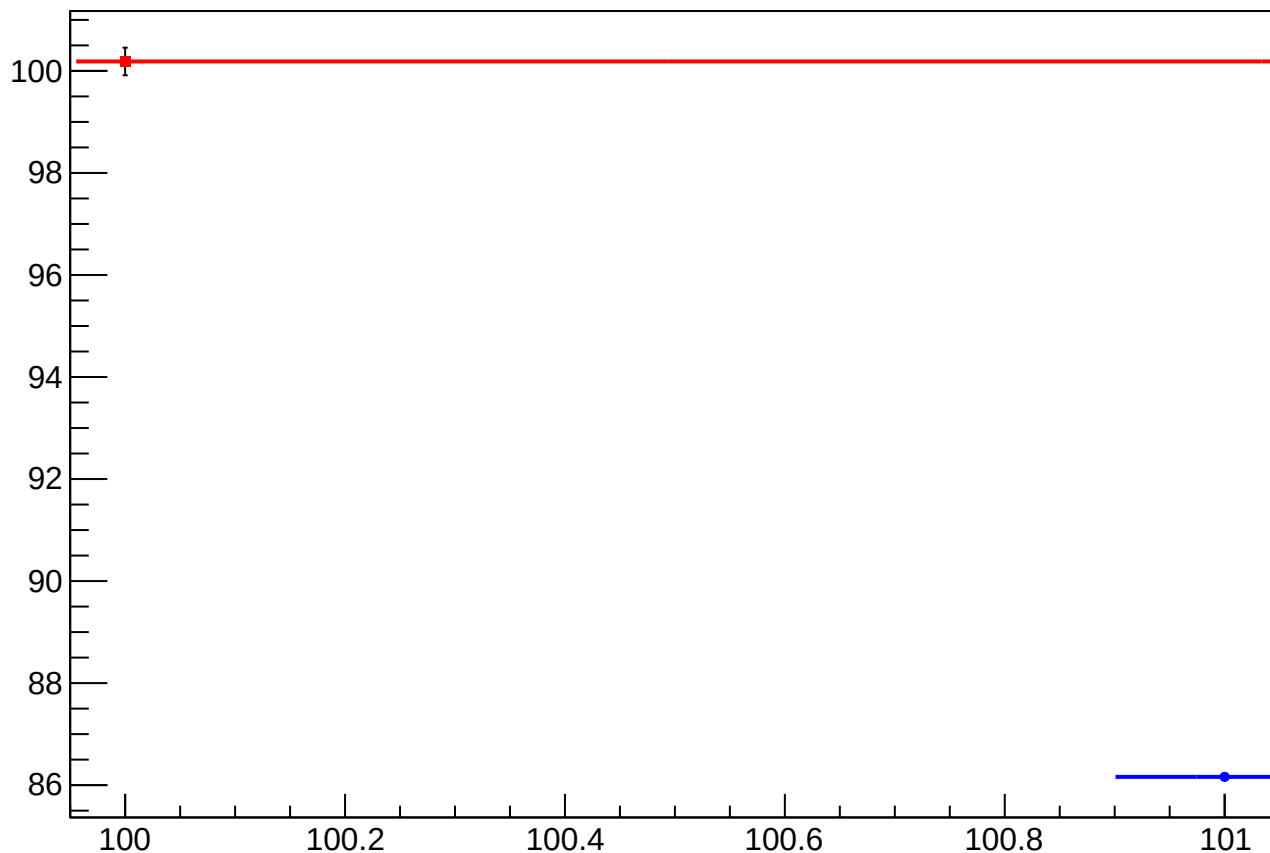
Right: 0.088+/-0.105  $\chi^2/\text{NDF}$ : 7.8/1

In: 0.171+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.088+/-0.105  $\chi^2/\text{NDF}$ : 7.8/1

asym\_sam\_3726\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 86.162+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.185+/-0.270  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

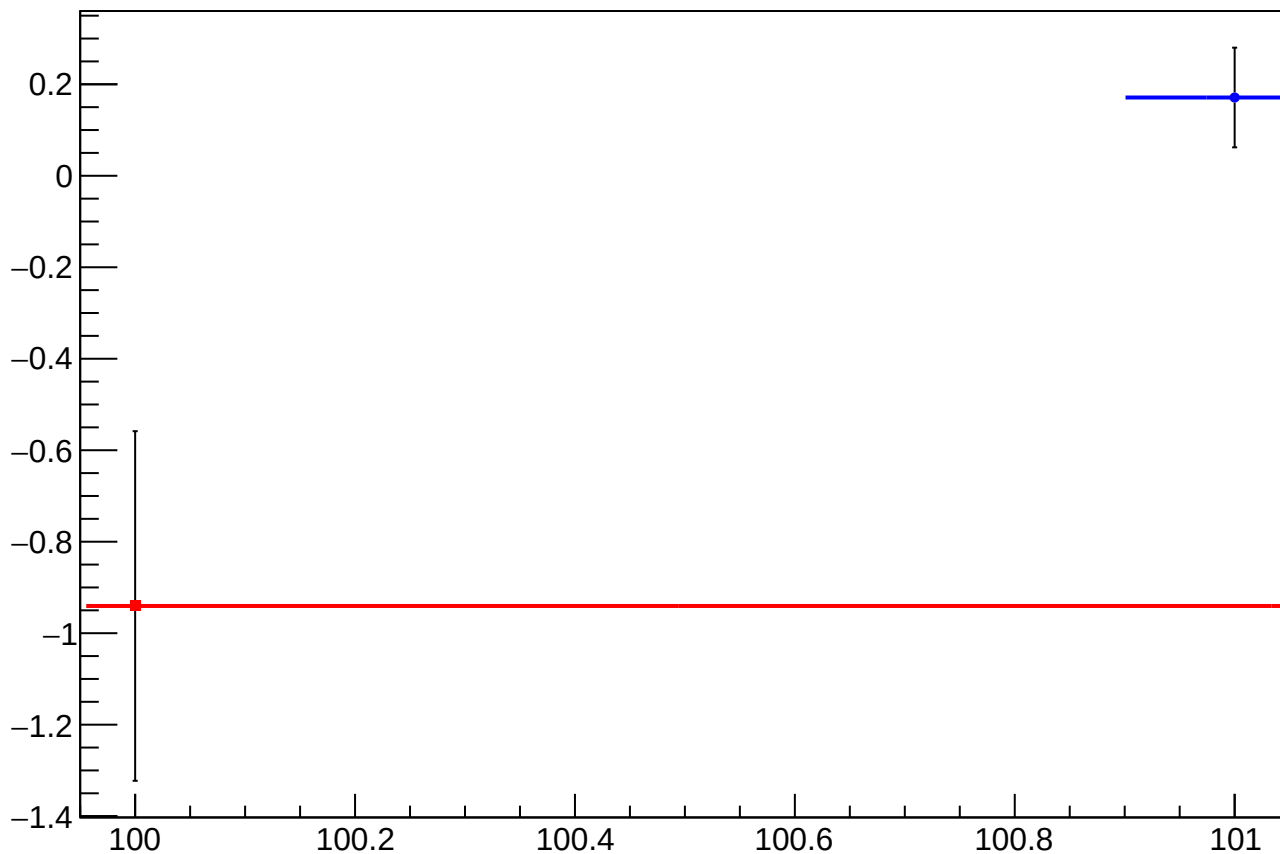
Right: 87.216+/-0.074  $\chi^2/\text{NDF}$ : 2490.3/1

In: 86.162+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.216+/-0.074  $\chi^2/\text{NDF}$ : 2490.3/1

asym\_sam\_3726\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.171+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.940+/-0.382  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

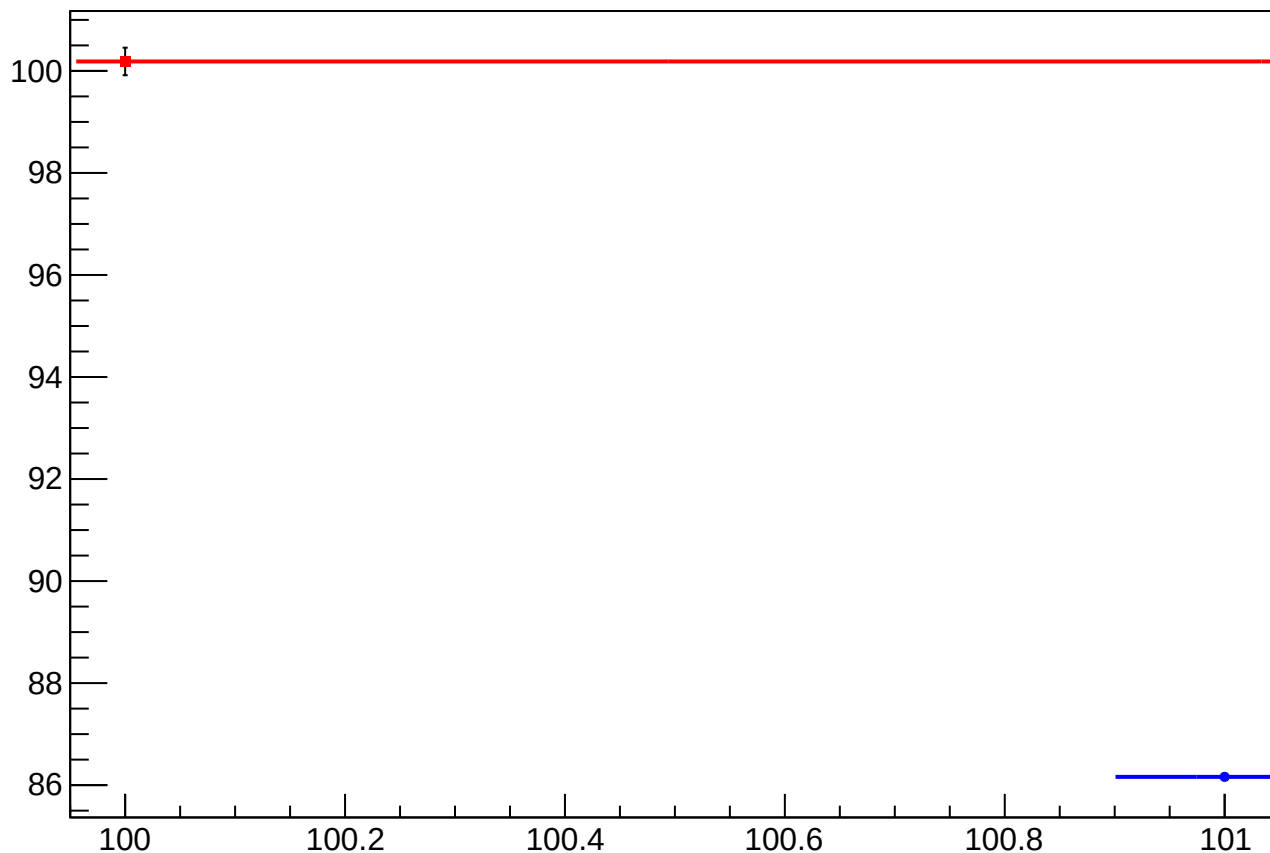
Right: 0.088+/-0.105  $\chi^2/\text{NDF}$ : 7.8/1

In: 0.171+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.088+/-0.105  $\chi^2/\text{NDF}$ : 7.8/1

asym\_sam\_3726\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 86.162 $\pm$ 0.077  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 100.185 $\pm$ 0.270  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

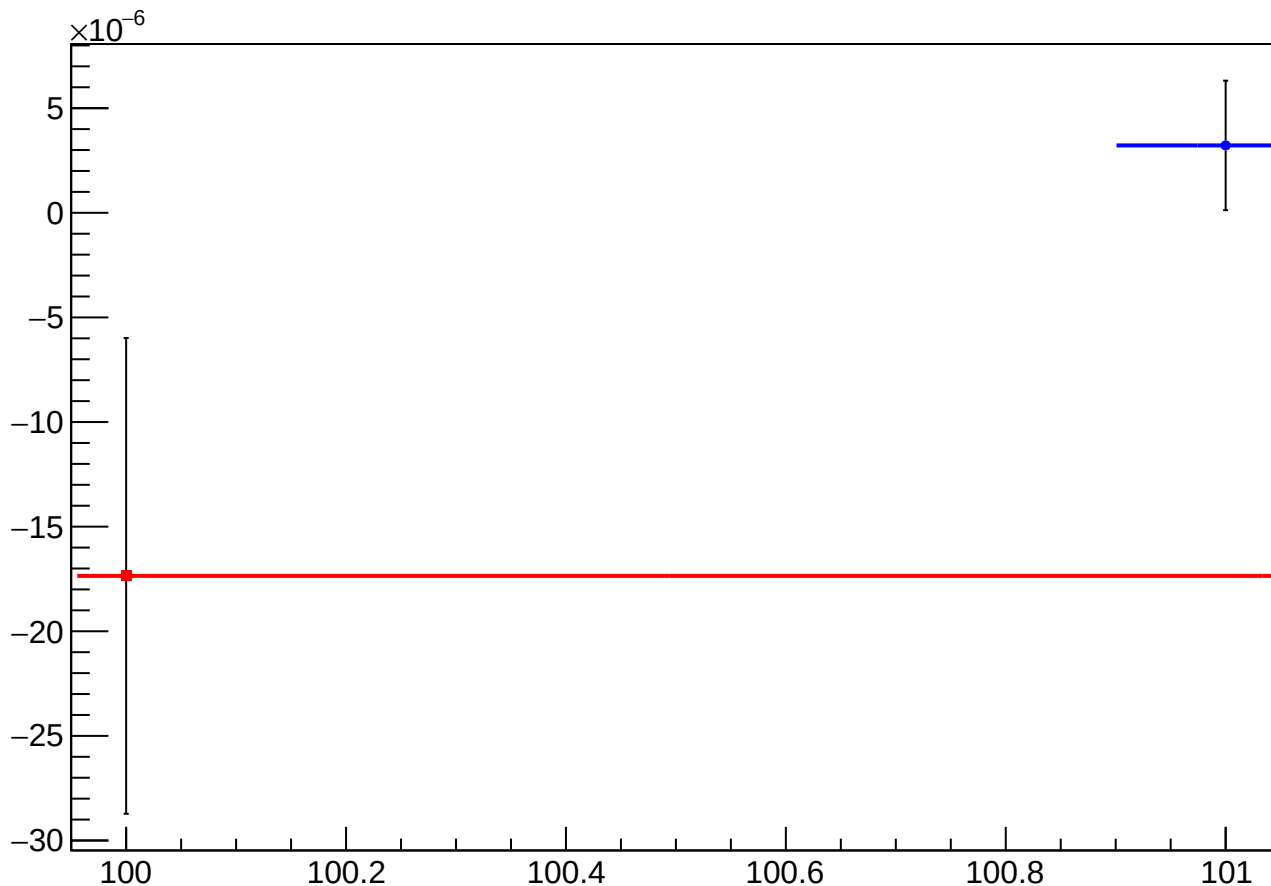
Right: 87.216 $\pm$ 0.074  $\chi^2$ /NDF: 2490.3/1

In: 86.162 $\pm$ 0.077  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 87.216 $\pm$ 0.074  $\chi^2$ /NDF: 2490.3/1

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

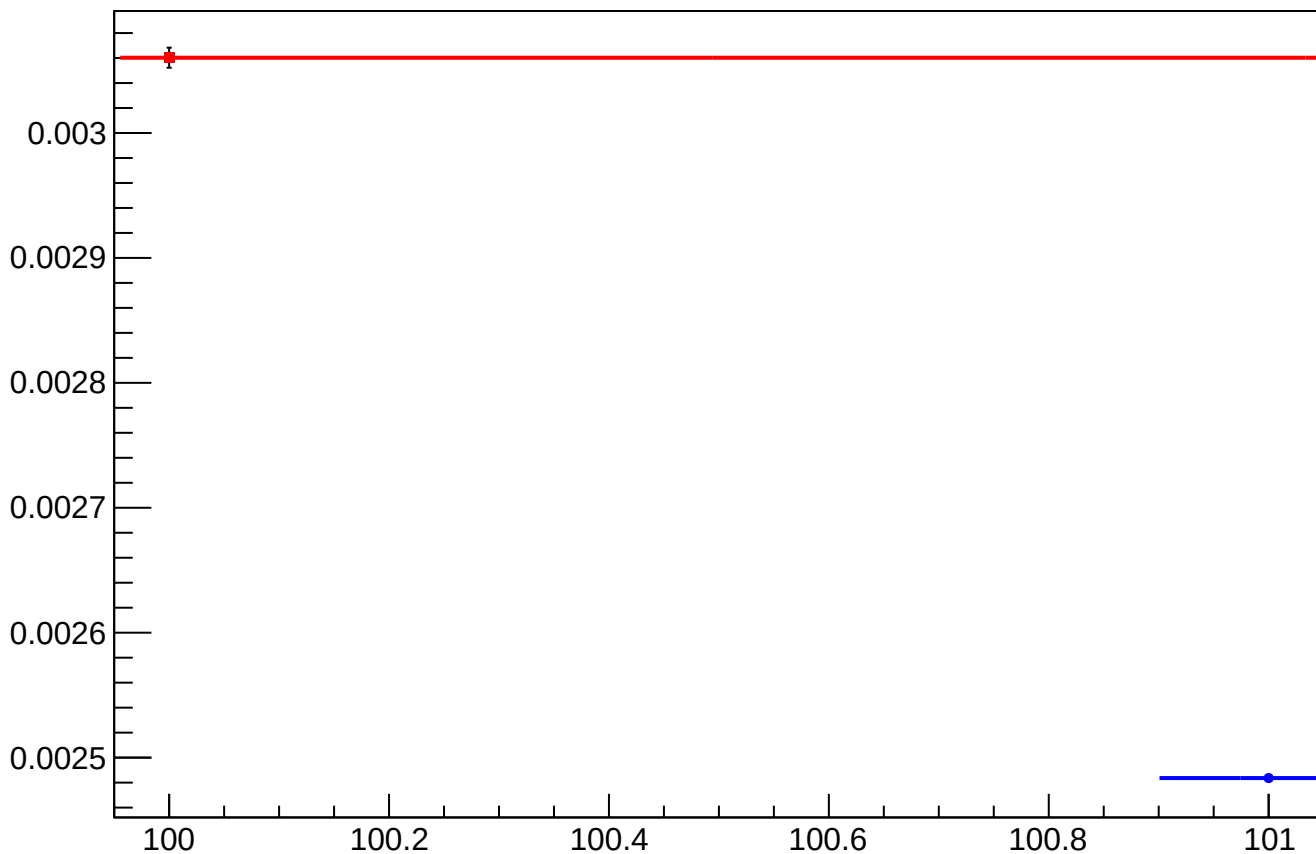
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.0/1

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 4789.1/1

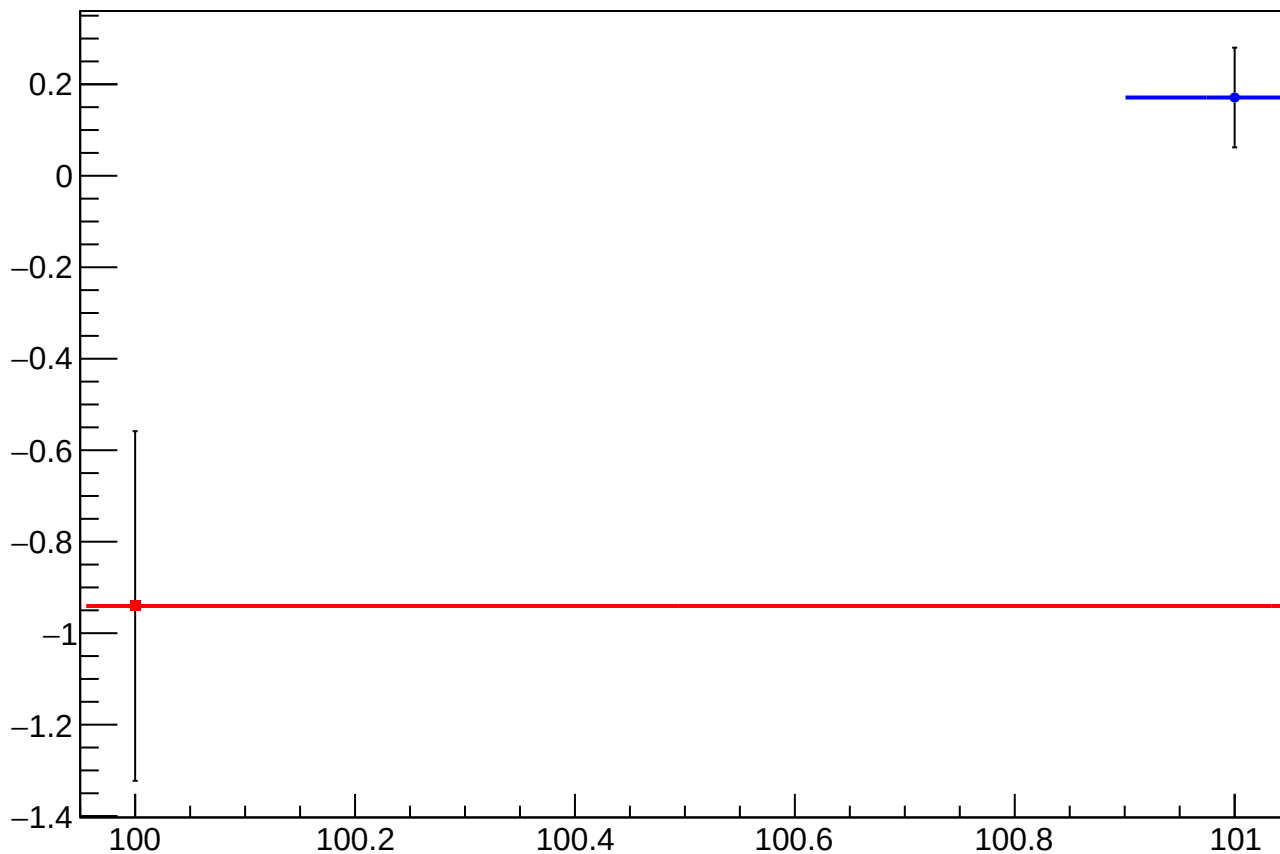
In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 4789.1/1



asym\_sam\_3726\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.171+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.941+/-0.382  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

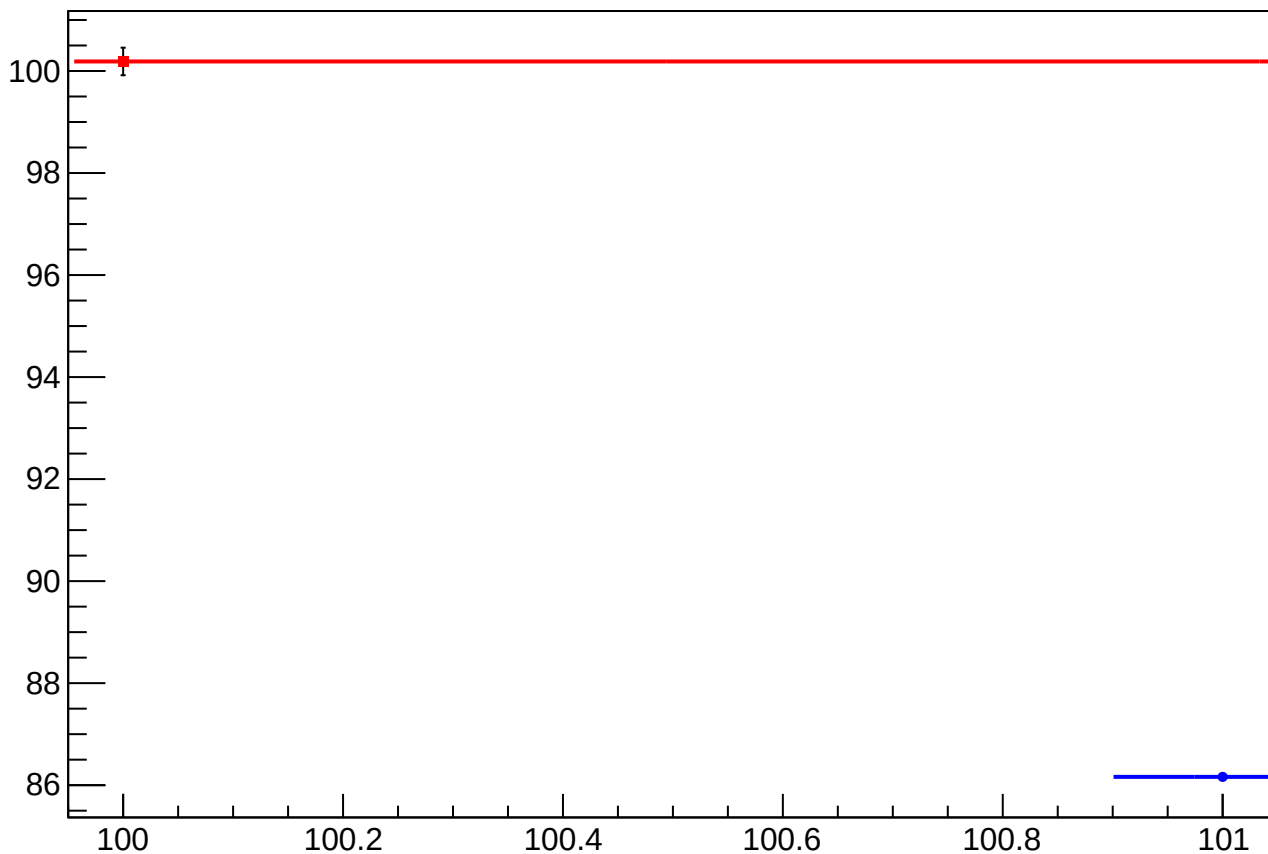
Right: 0.088+/-0.105  $\chi^2/\text{NDF}$ : 7.8/1

In: 0.171+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.088+/-0.105  $\chi^2/\text{NDF}$ : 7.8/1

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 86.163+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 100.187+/-0.270  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

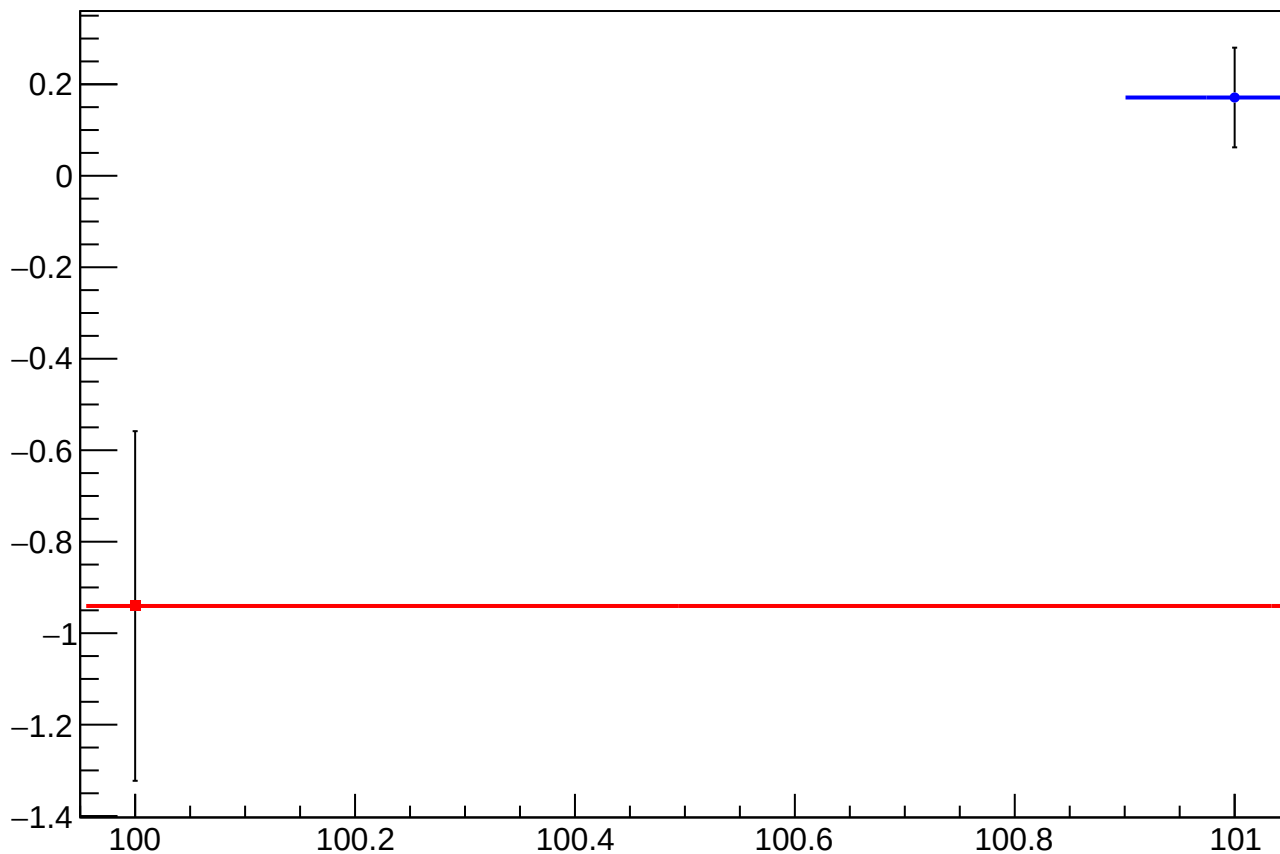
Right: 87.217+/-0.074  $\chi^2/\text{NDF}$ : 2490.5/1

In: 86.163+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.217+/-0.074  $\chi^2/\text{NDF}$ : 2490.5/1

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.171+/-0.109  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.941+/-0.382  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

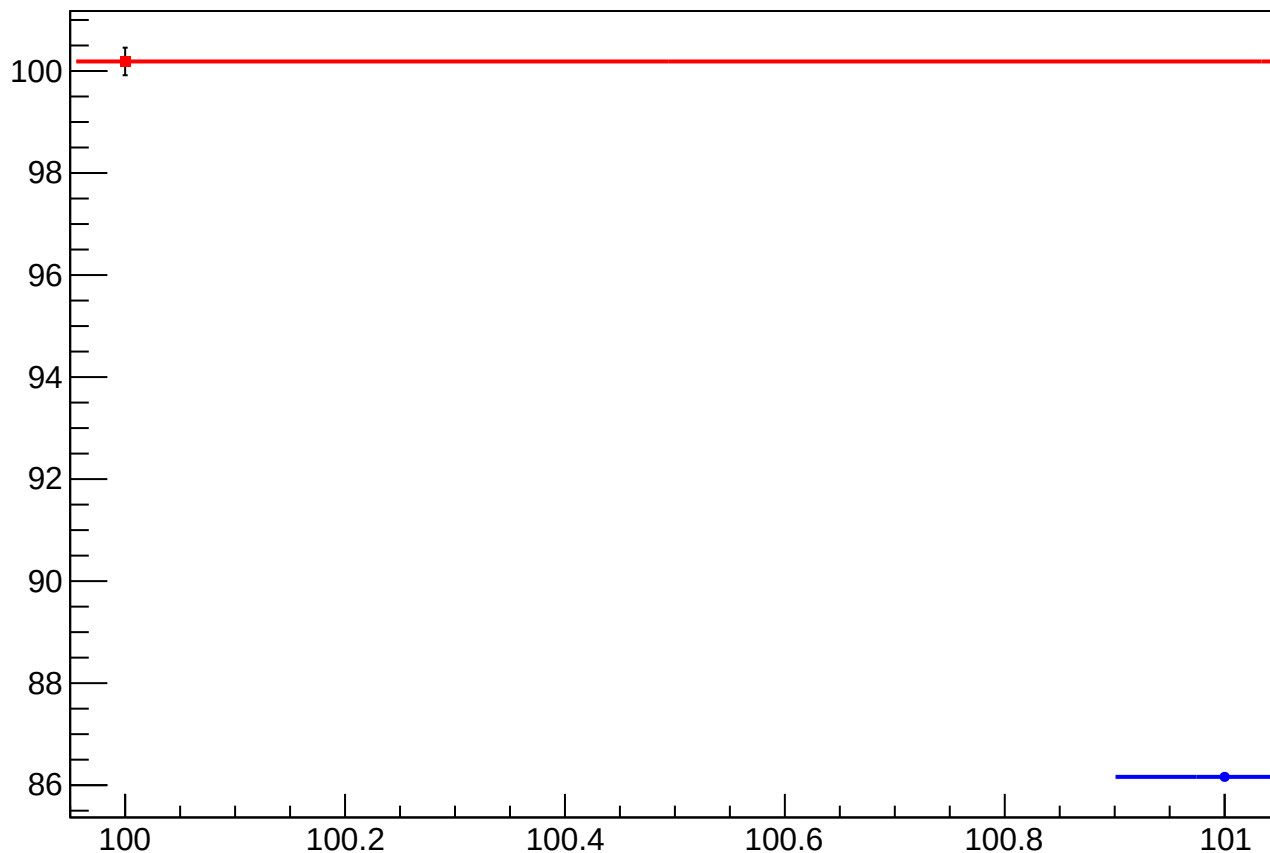
Right: 0.088+/-0.105  $\chi^2/\text{NDF}$ : 7.8/1

In: 0.171+/-0.109  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 0.088+/-0.105  $\chi^2/\text{NDF}$ : 7.8/1

asym\_sam\_3726\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 86.163+/-0.077  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 100.187+/-0.270  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

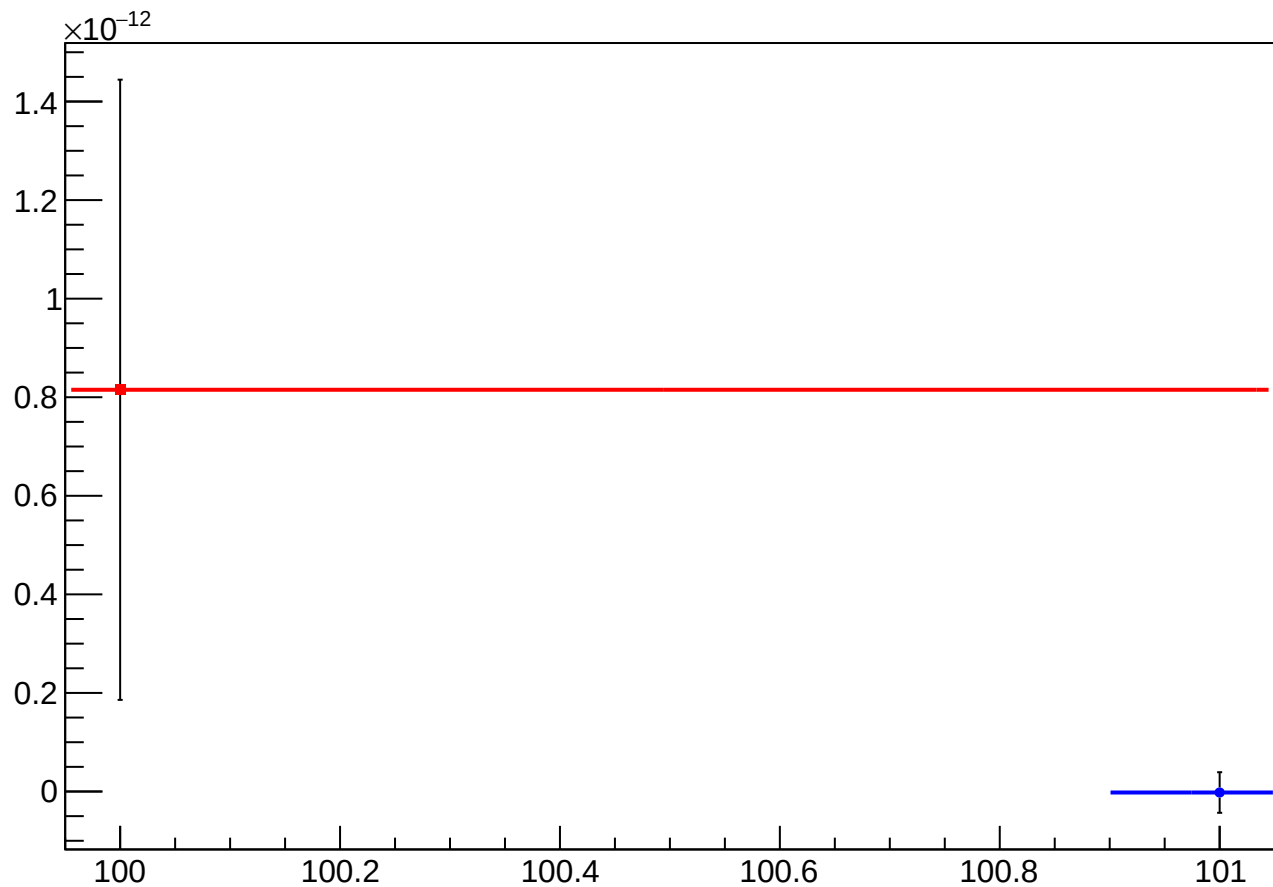
Right: 87.217+/-0.074  $\chi^2$ /NDF: 2490.5/1

In: 86.163+/-0.077  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 87.217+/-0.074  $\chi^2$ /NDF: 2490.5/1

asym\_sam\_3726\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

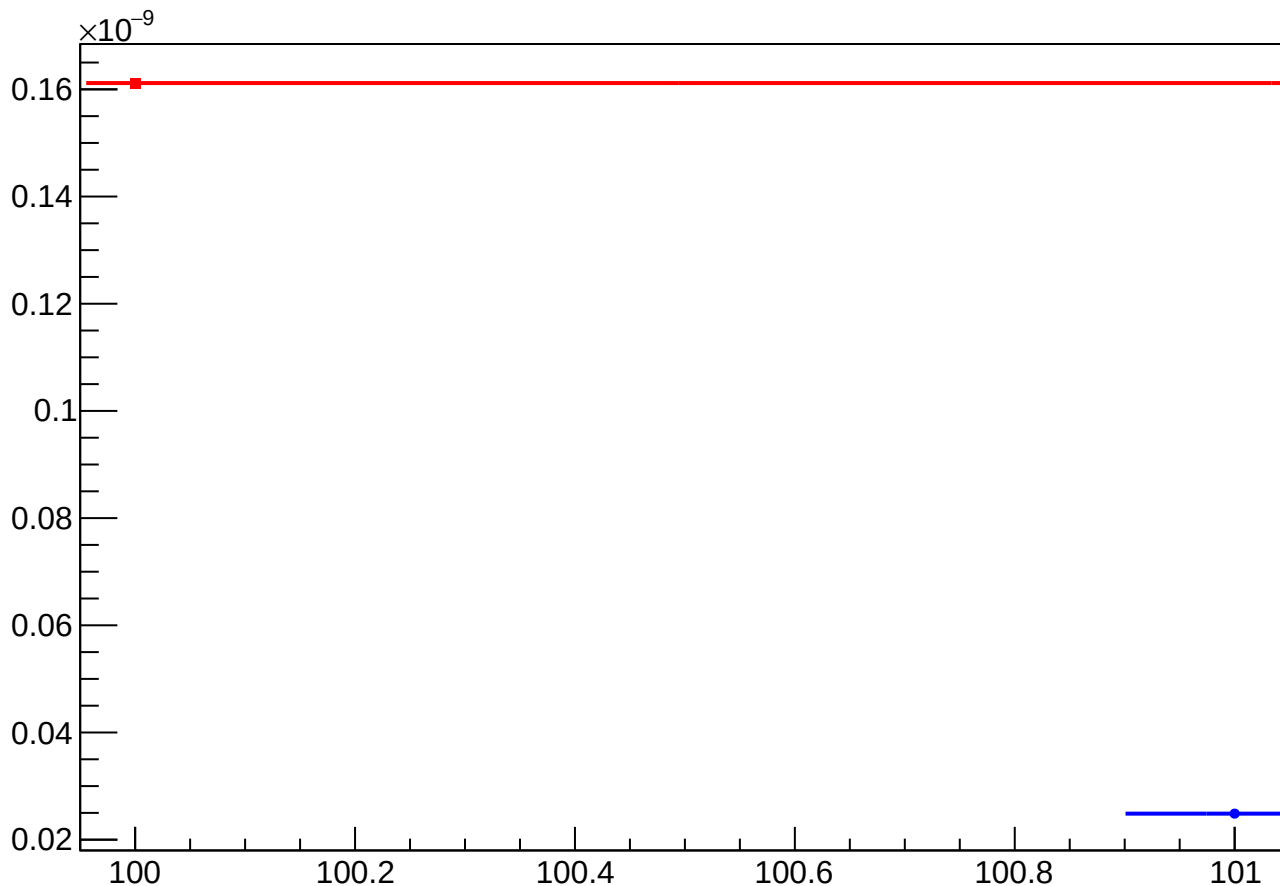
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.7/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.7/1

asym\_sam\_3726\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

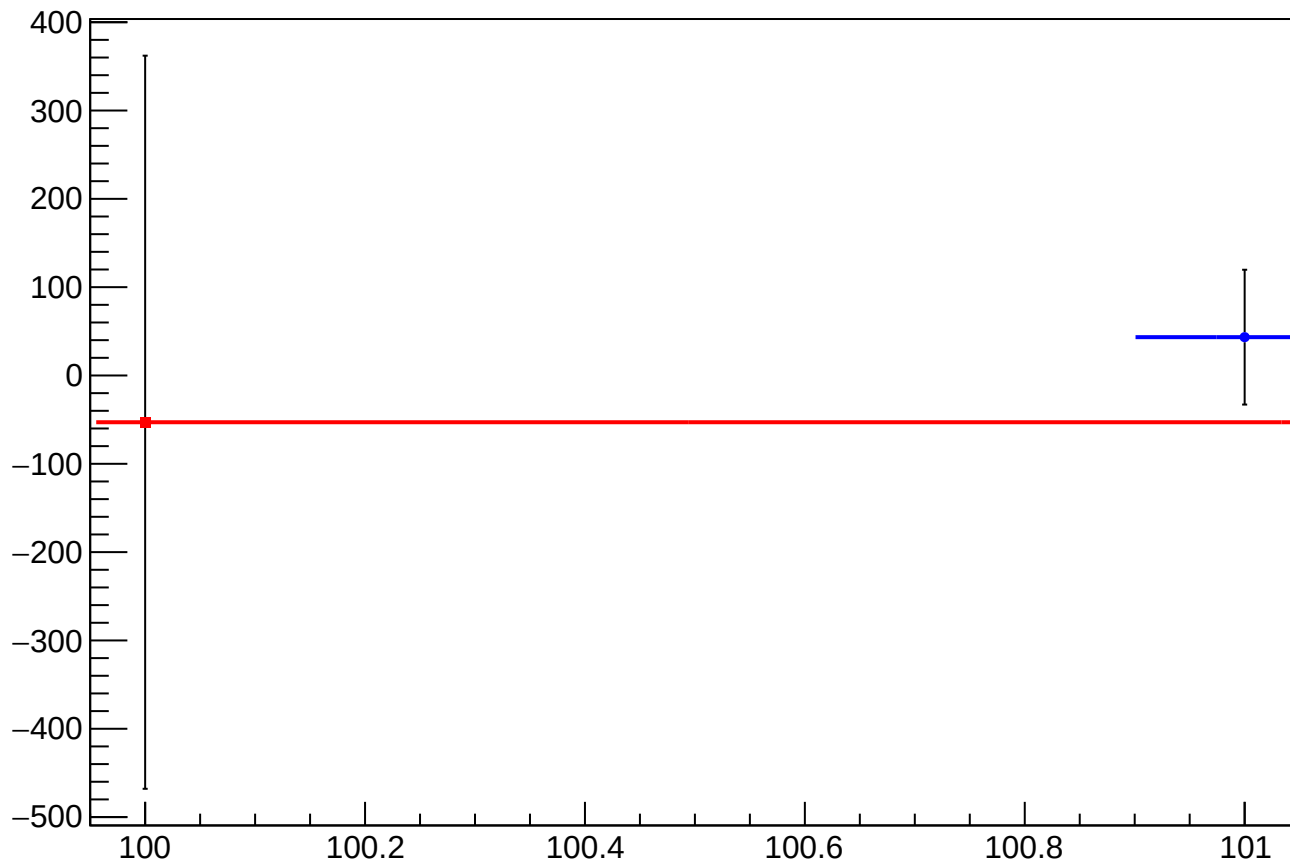
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 93466.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 93466.4/1

reg\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 43.398 $\pm$ 76.324  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -52.932 $\pm$ 415.042  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

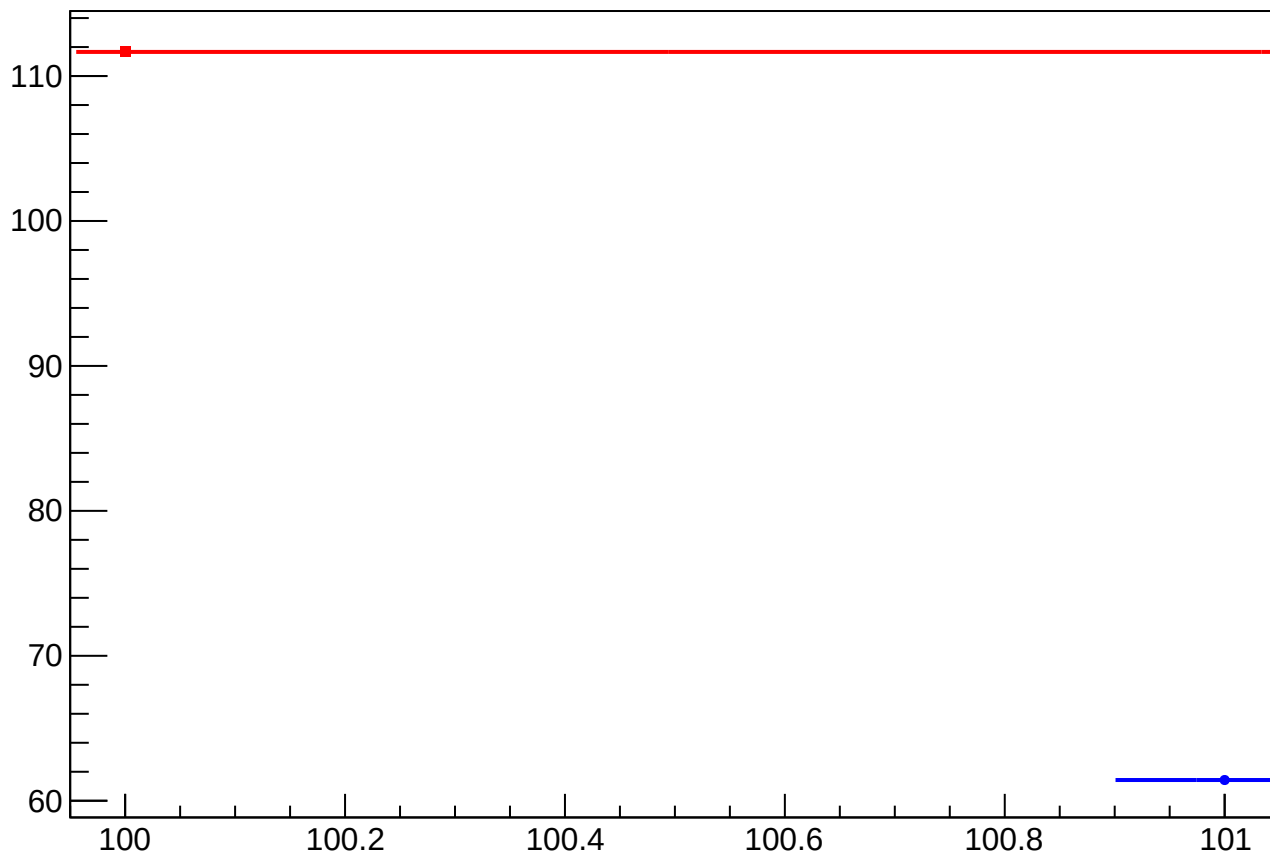
Right: 40.247 $\pm$ 75.066  $\chi^2$ /NDF: 0.1/1

In: 43.398 $\pm$ 76.324  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 40.247 $\pm$ 75.066  $\chi^2$ /NDF: 0.1/1

reg\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 61.430 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.664 $\pm$ 0.293  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 63.073 $\pm$ 0.053  $\chi^2$ /NDF: 28339.1/1

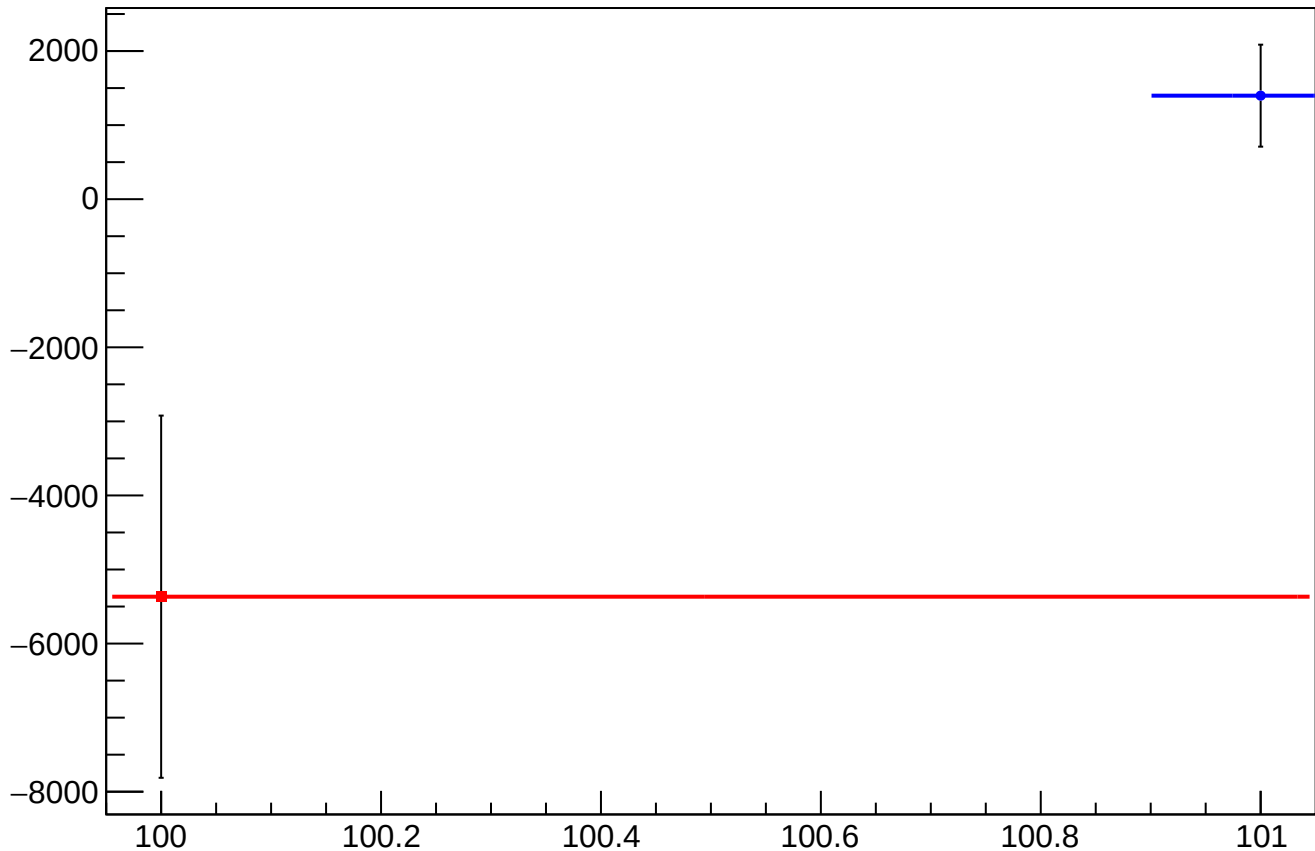
In: 61.430 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.073 $\pm$ 0.053  $\chi^2$ /NDF: 28339.1/1



asym\_sam\_15\_48\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1397.657+/-688.465  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5367.099+/-2445.163  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

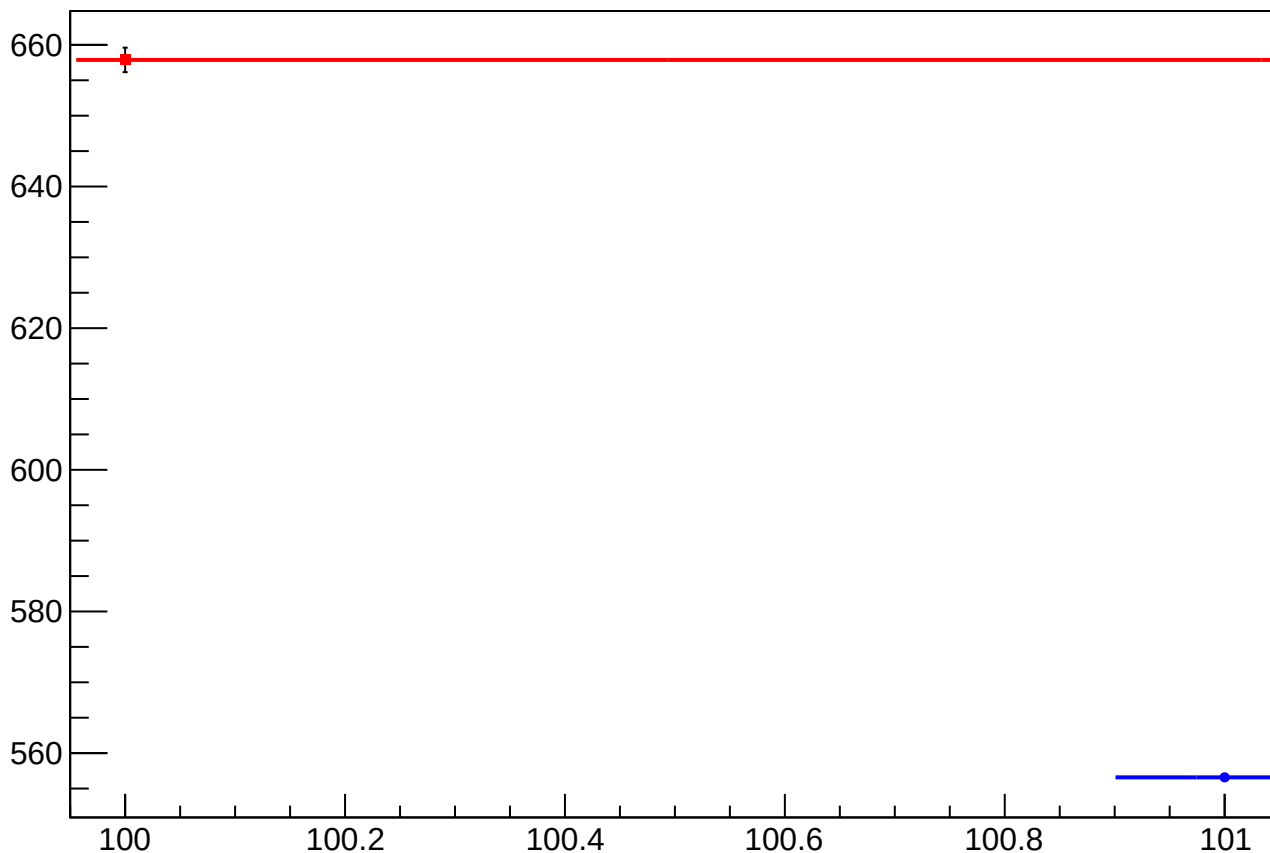
Right: 900.759+/-662.697  $\chi^2/\text{NDF}$ : 7.1/1

In: 1397.657+/-688.465  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 900.759+/-662.697  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam\_15\_48\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 556.581 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 657.875 $\pm$ 1.729  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

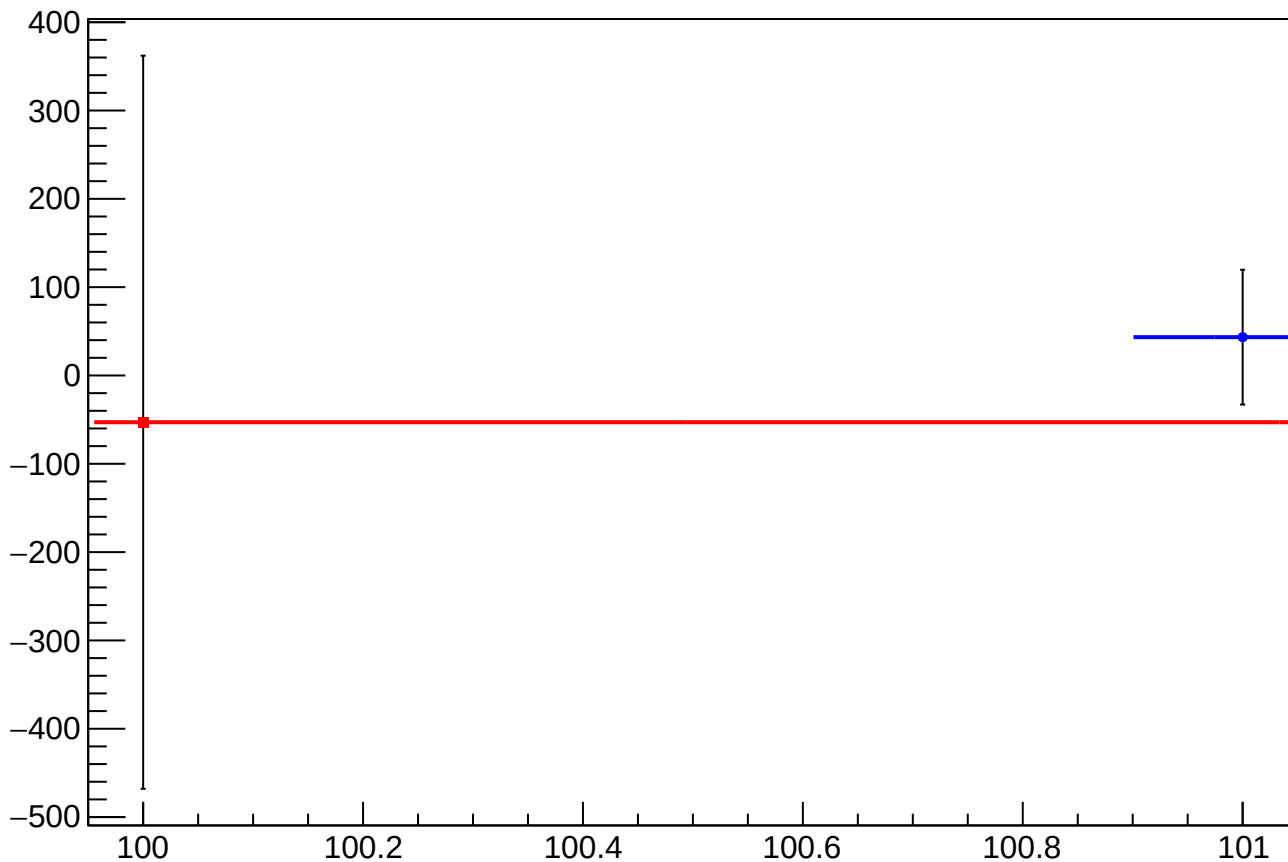
Right: 564.021 $\pm$ 0.469  $\chi^2$ /NDF: 3180.2/1

In: 556.581 $\pm$ 0.487  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 564.021 $\pm$ 0.469  $\chi^2$ /NDF: 3180.2/1

cor\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 43.396+/-76.324  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -52.942+/-415.042  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

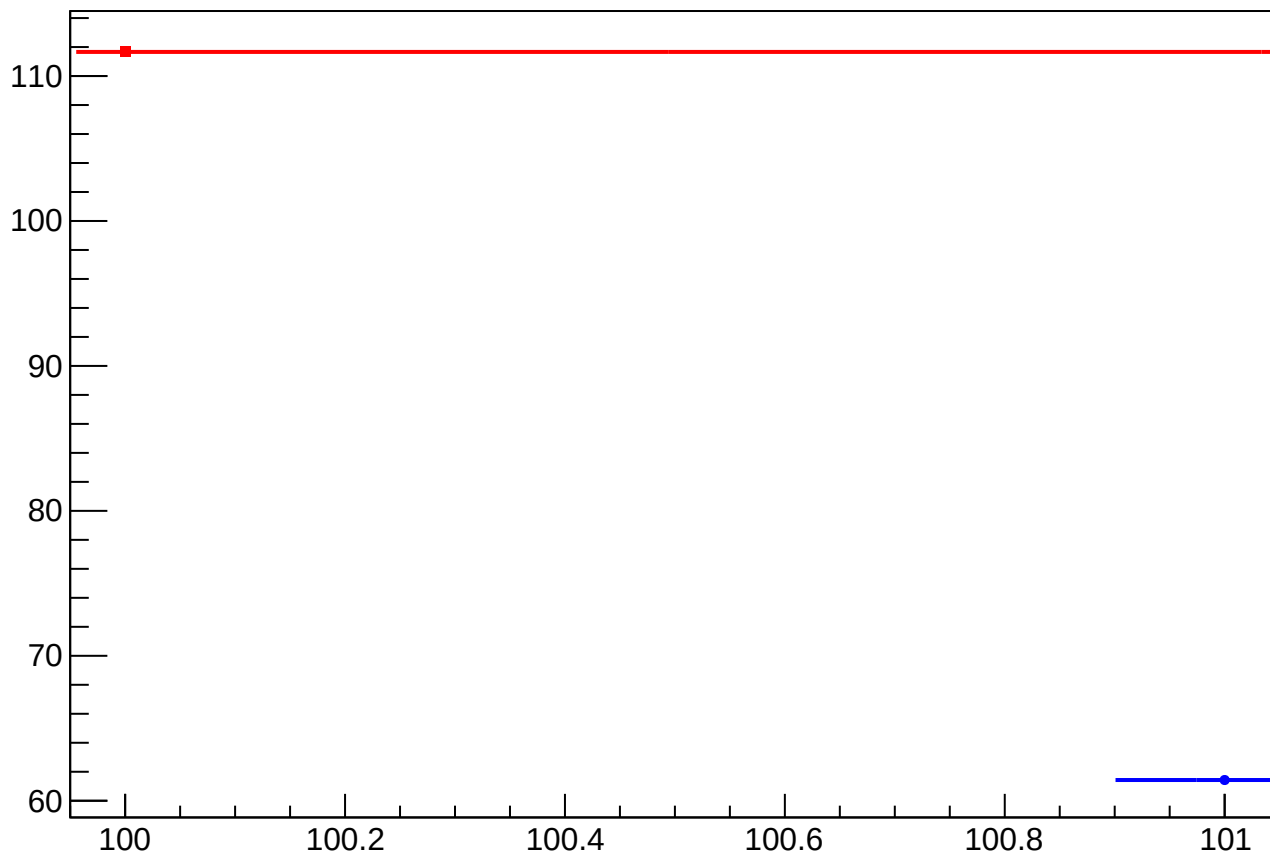
Right: 40.244+/-75.066  $\chi^2/\text{NDF}$ : 0.1/1

In: 43.396+/-76.324  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.244+/-75.066  $\chi^2/\text{NDF}$ : 0.1/1

cor\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 61.430 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.664 $\pm$ 0.293  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

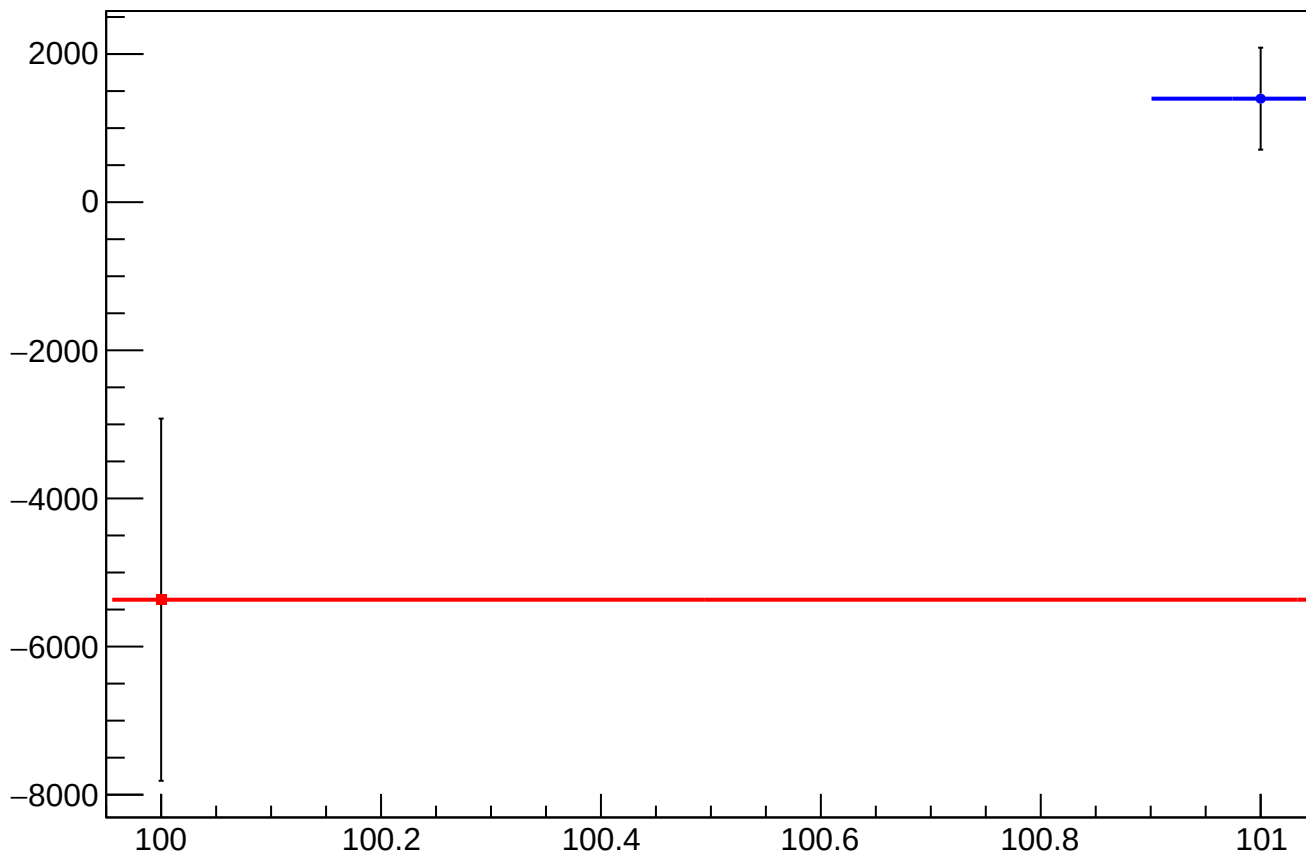
Right: 63.073 $\pm$ 0.053  $\chi^2$ /NDF: 28339.1/1

In: 61.430 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.073 $\pm$ 0.053  $\chi^2$ /NDF: 28339.1/1

asym\_sam\_15\_48\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1397.665+/-688.464  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5367.107+/-2445.164  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

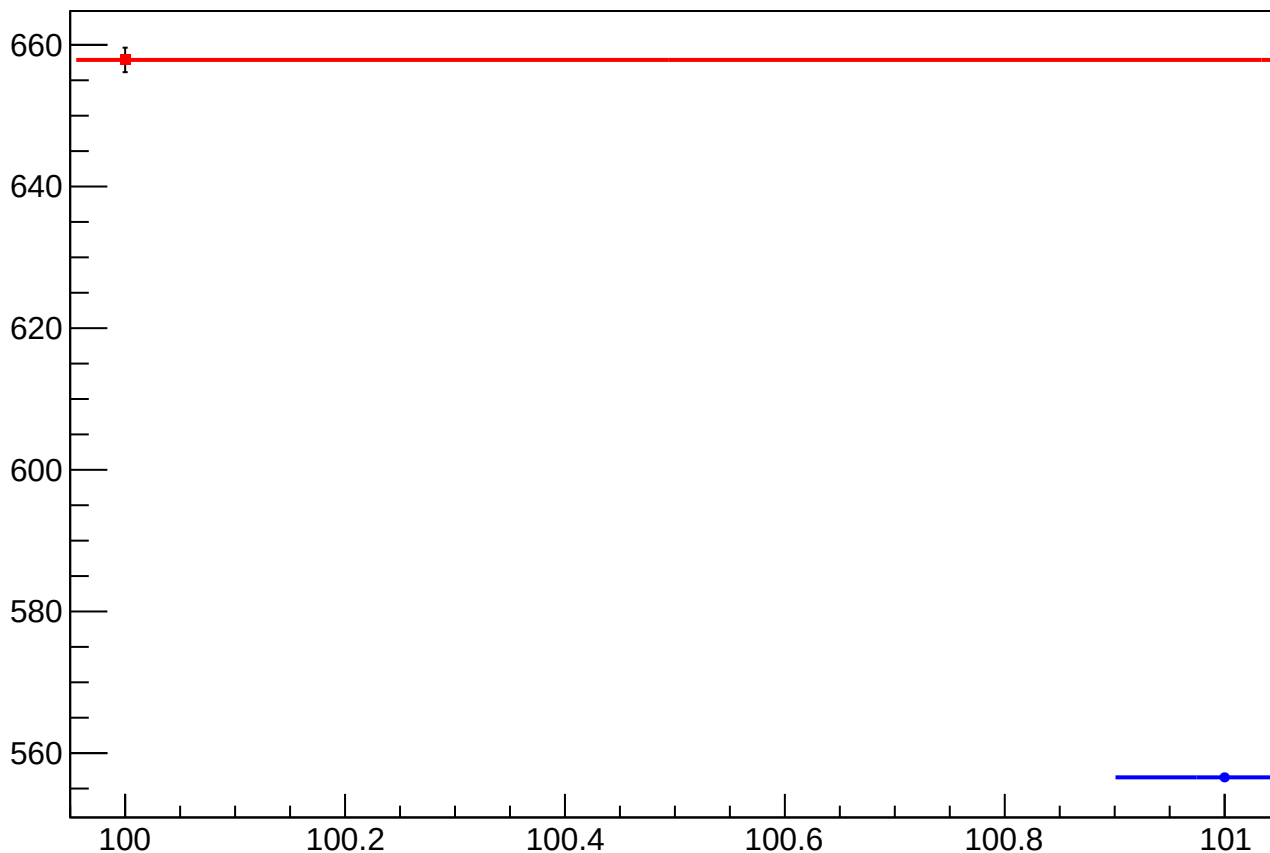
Right: 900.767+/-662.697  $\chi^2/\text{NDF}$ : 7.1/1

In: 1397.665+/-688.464  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 900.767+/-662.697  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam\_15\_48\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 556.580 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 657.875 $\pm$ 1.729  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

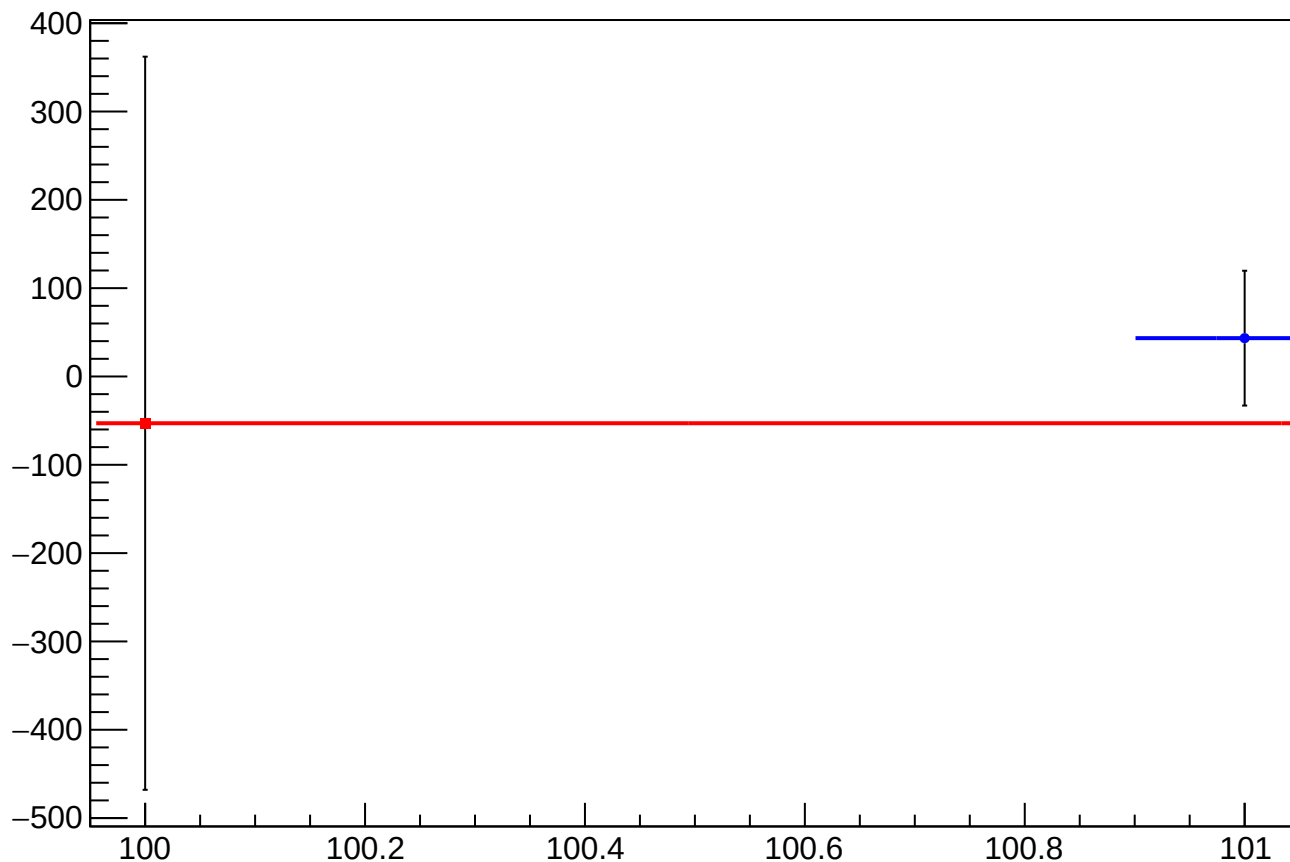
Right: 564.021 $\pm$ 0.469  $\chi^2$ /NDF: 3180.2/1

In: 556.580 $\pm$ 0.487  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 564.021 $\pm$ 0.469  $\chi^2$ /NDF: 3180.2/1

eigen\_cor\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 43.396+/-76.324  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -52.942+/-415.042  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

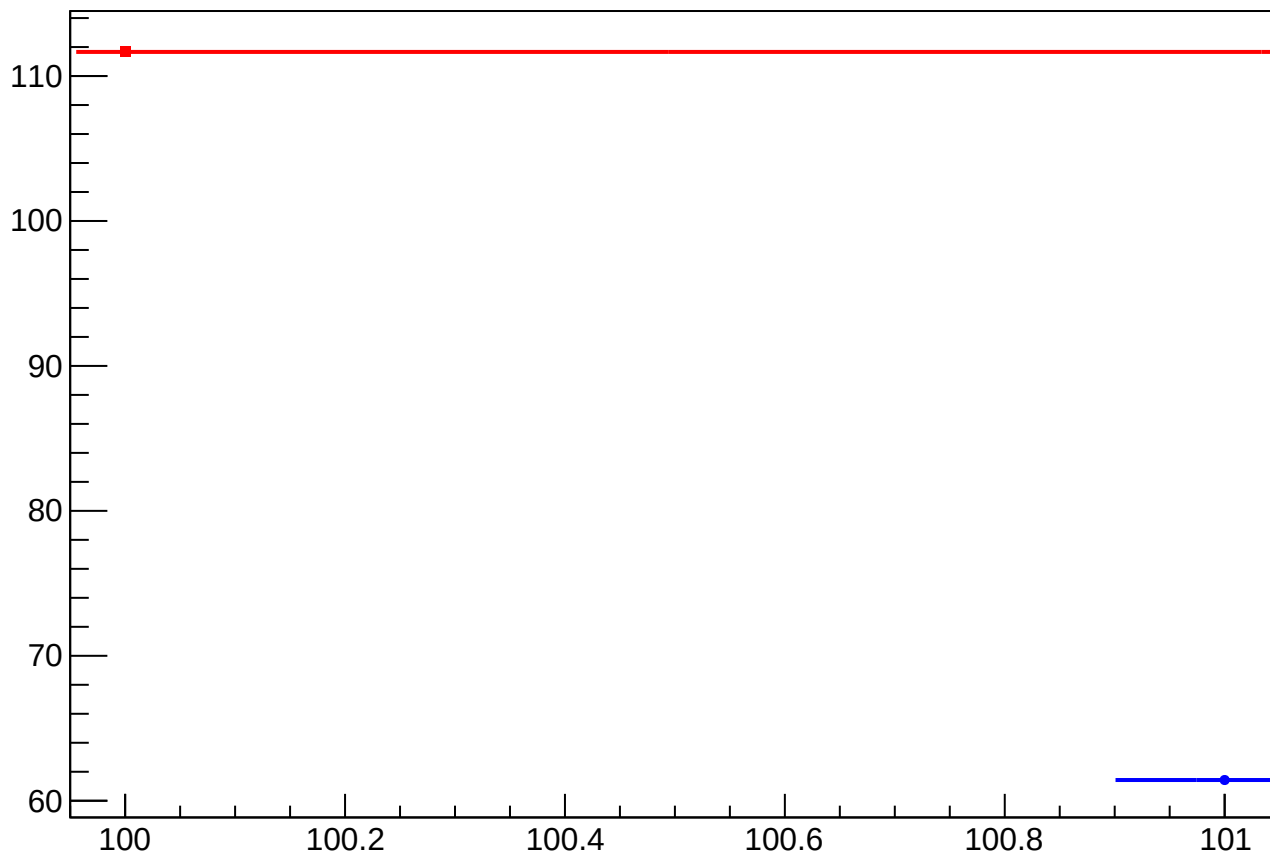
Right: 40.244+/-75.066  $\chi^2/\text{NDF}$ : 0.1/1

In: 43.396+/-76.324  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.244+/-75.066  $\chi^2/\text{NDF}$ : 0.1/1

eigen\_cor\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 61.430 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 111.664 $\pm$ 0.293  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 63.073 $\pm$ 0.053  $\chi^2$ /NDF: 28339.1/1

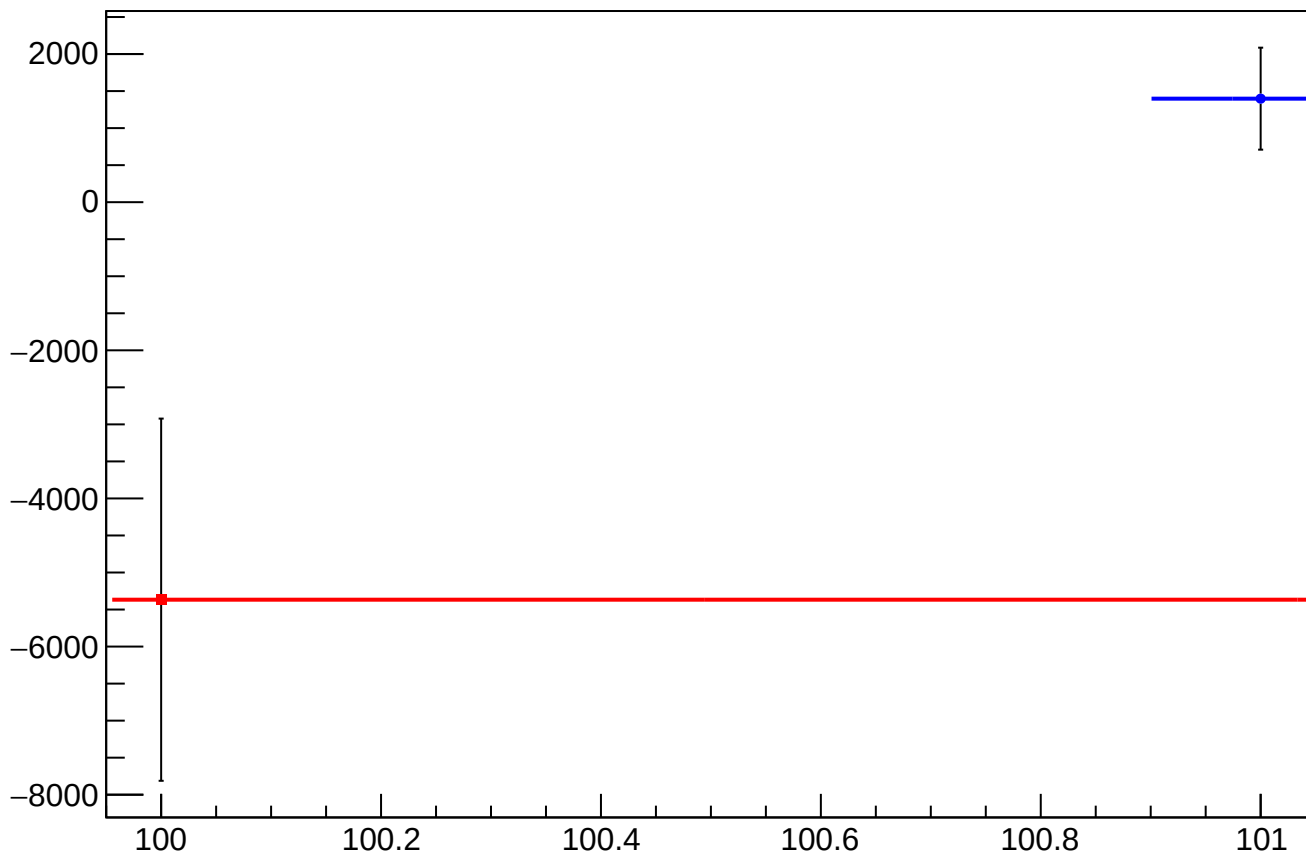
In: 61.430 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.073 $\pm$ 0.053  $\chi^2$ /NDF: 28339.1/1



asym\_sam\_15\_48\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1397.665+/-688.464  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5367.107+/-2445.164  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

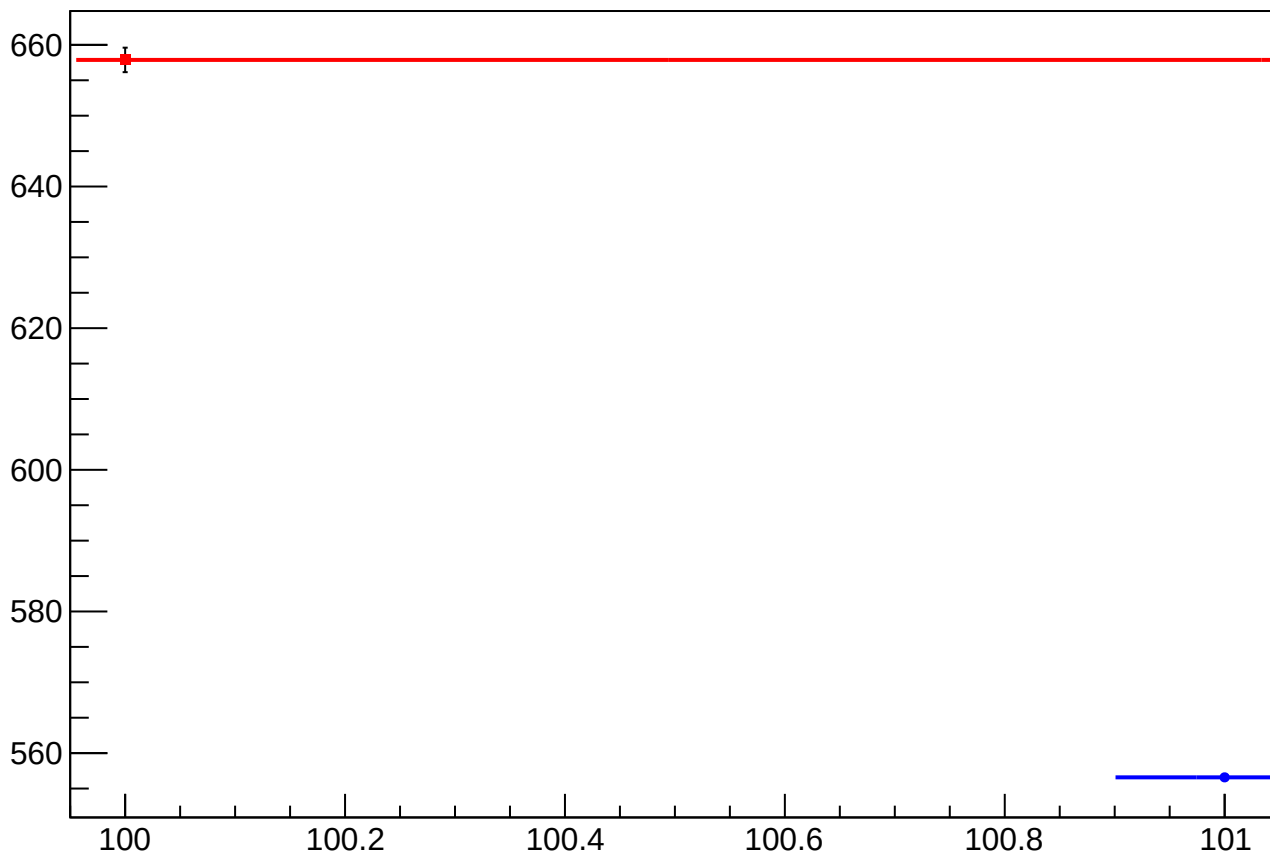
Right: 900.767+/-662.697  $\chi^2/\text{NDF}$ : 7.1/1

In: 1397.665+/-688.464  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 900.767+/-662.697  $\chi^2/\text{NDF}$ : 7.1/1

asym\_sam\_15\_48\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 556.580 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 657.875 $\pm$ 1.729  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

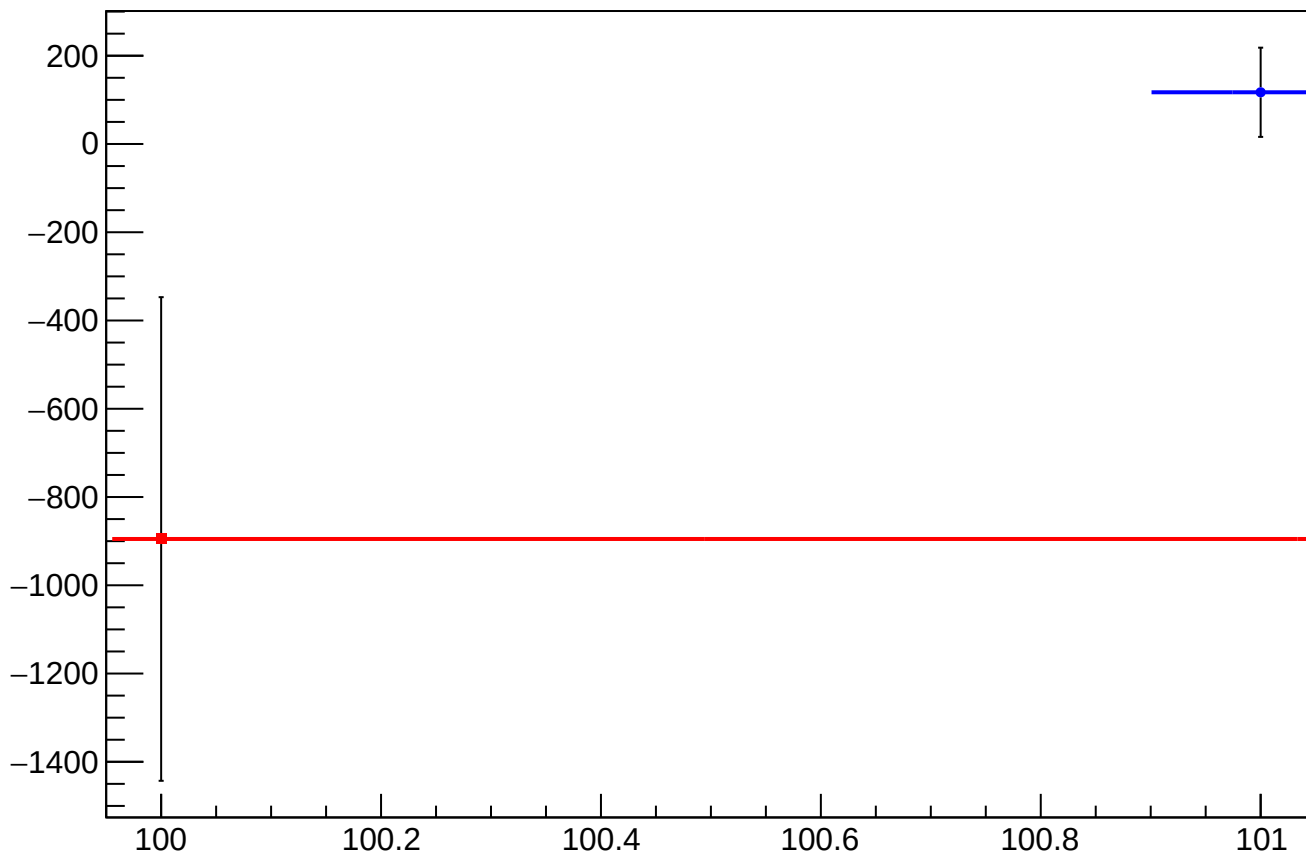
Right: 564.021 $\pm$ 0.469  $\chi^2$ /NDF: 3180.2/1

In: 556.580 $\pm$ 0.487  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 564.021 $\pm$ 0.469  $\chi^2$ /NDF: 3180.2/1

dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 117.165+/-101.087  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -895.079+/-547.976  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

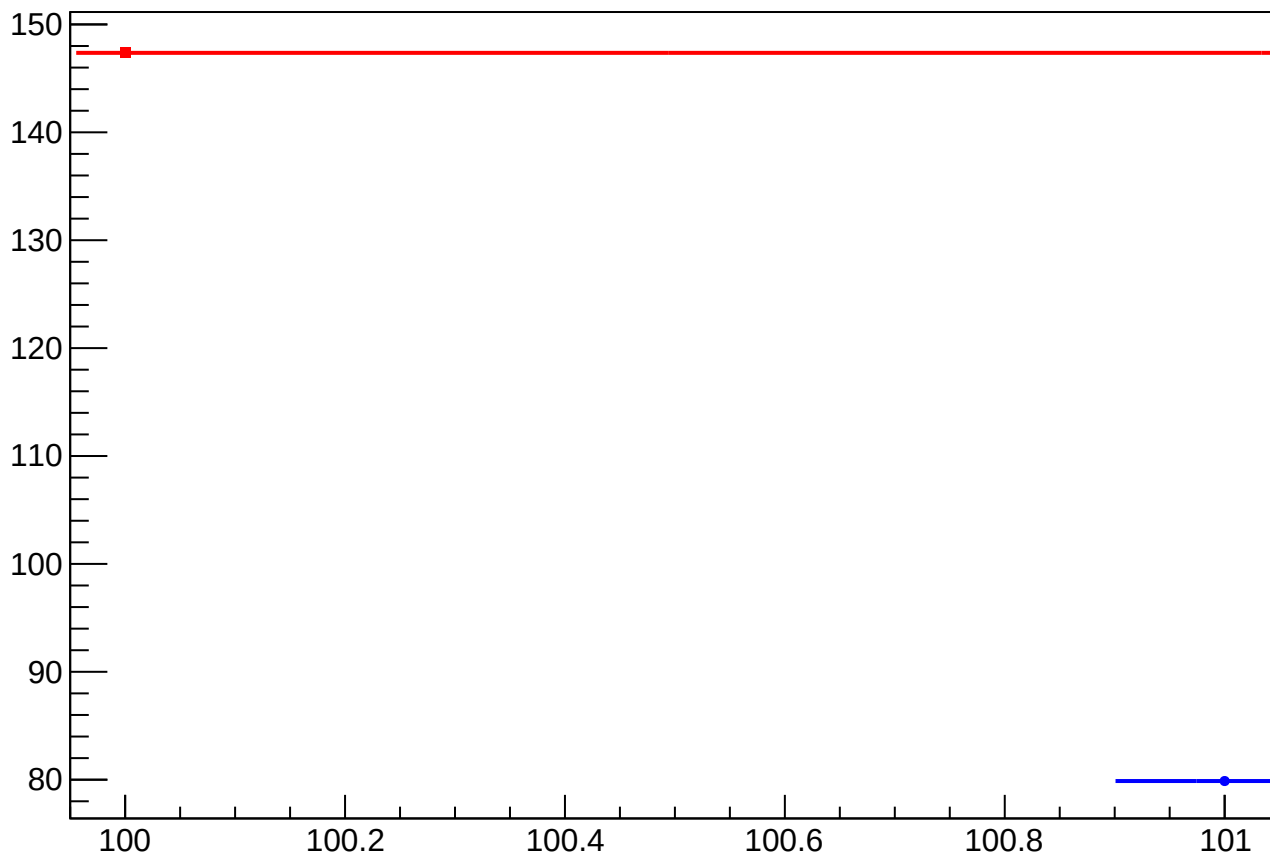
Right: 83.852+/-99.409  $\chi^2/\text{NDF}$ : 3.3/1

In: 117.165+/-101.087  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 83.852+/-99.409  $\chi^2/\text{NDF}$ : 3.3/1

dit\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 79.877 $\pm$ 0.071  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.365 $\pm$ 0.387  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

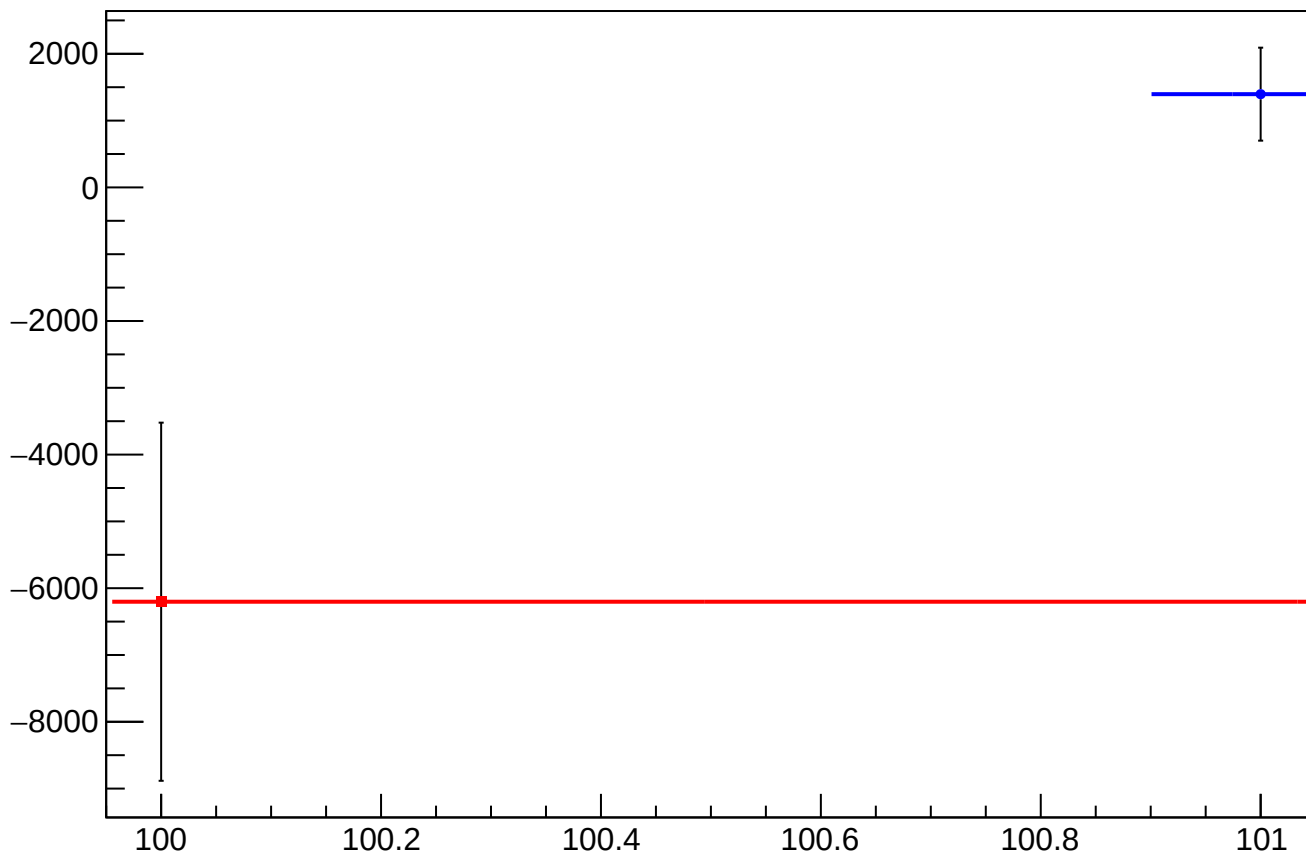
Right: 82.098 $\pm$ 0.070  $\chi^2$ /NDF: 29337.9/1

In: 79.877 $\pm$ 0.071  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.098 $\pm$ 0.070  $\chi^2$ /NDF: 29337.9/1

asym\_sam\_15\_48\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1395.954+/-695.977  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6202.575+/-2680.813  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

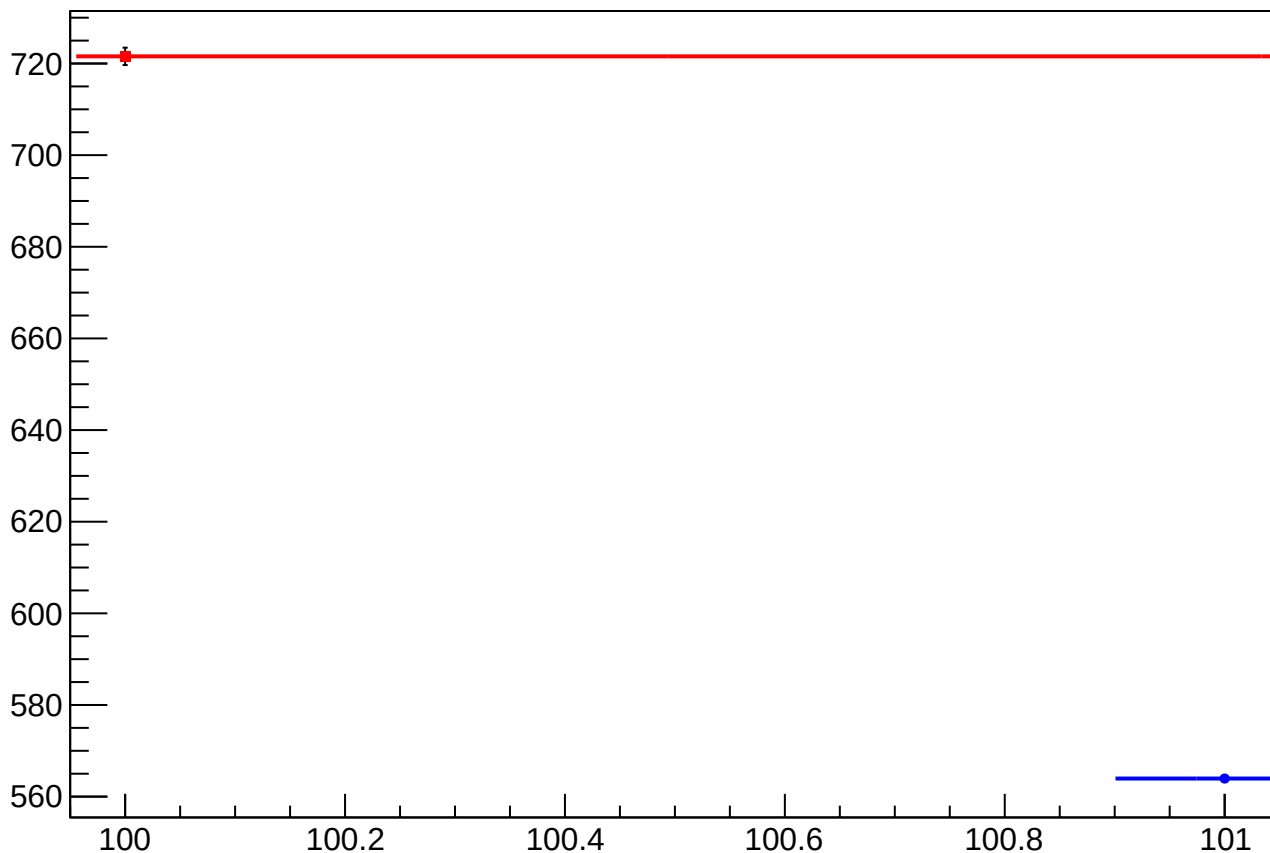
Right: 916.156+/-673.645  $\chi^2/\text{NDF}$ : 7.5/1

In: 1395.954+/-695.977  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 916.156+/-673.645  $\chi^2/\text{NDF}$ : 7.5/1

asym\_sam\_15\_48\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 563.945 $\pm$ 0.492  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 721.561 $\pm$ 1.896  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

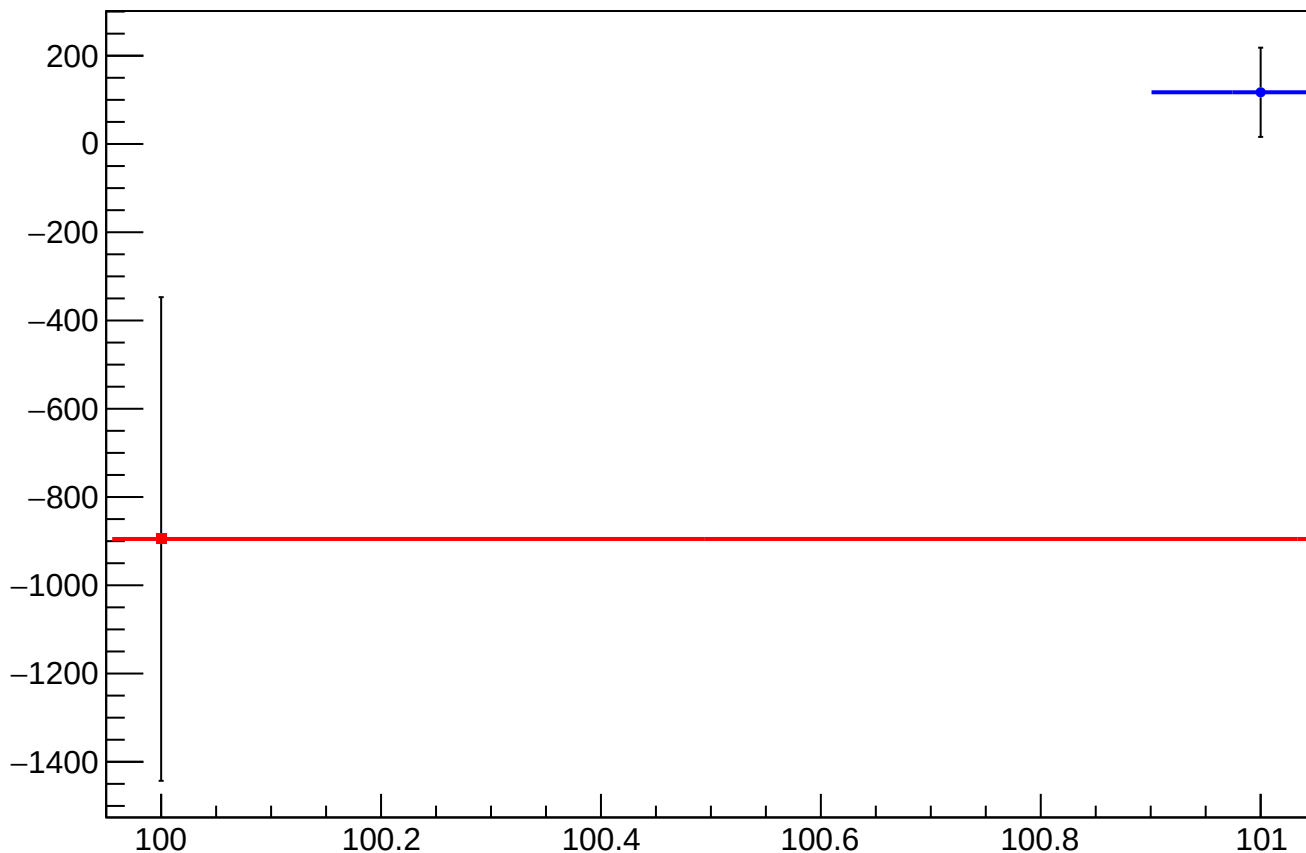
Right: 573.897 $\pm$ 0.476  $\chi^2$ /NDF: 6477.0/1

In: 563.945 $\pm$ 0.492  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 573.897 $\pm$ 0.476  $\chi^2$ /NDF: 6477.0/1

eigen\_dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 117.163+/-101.087  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -895.073+/-547.976  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

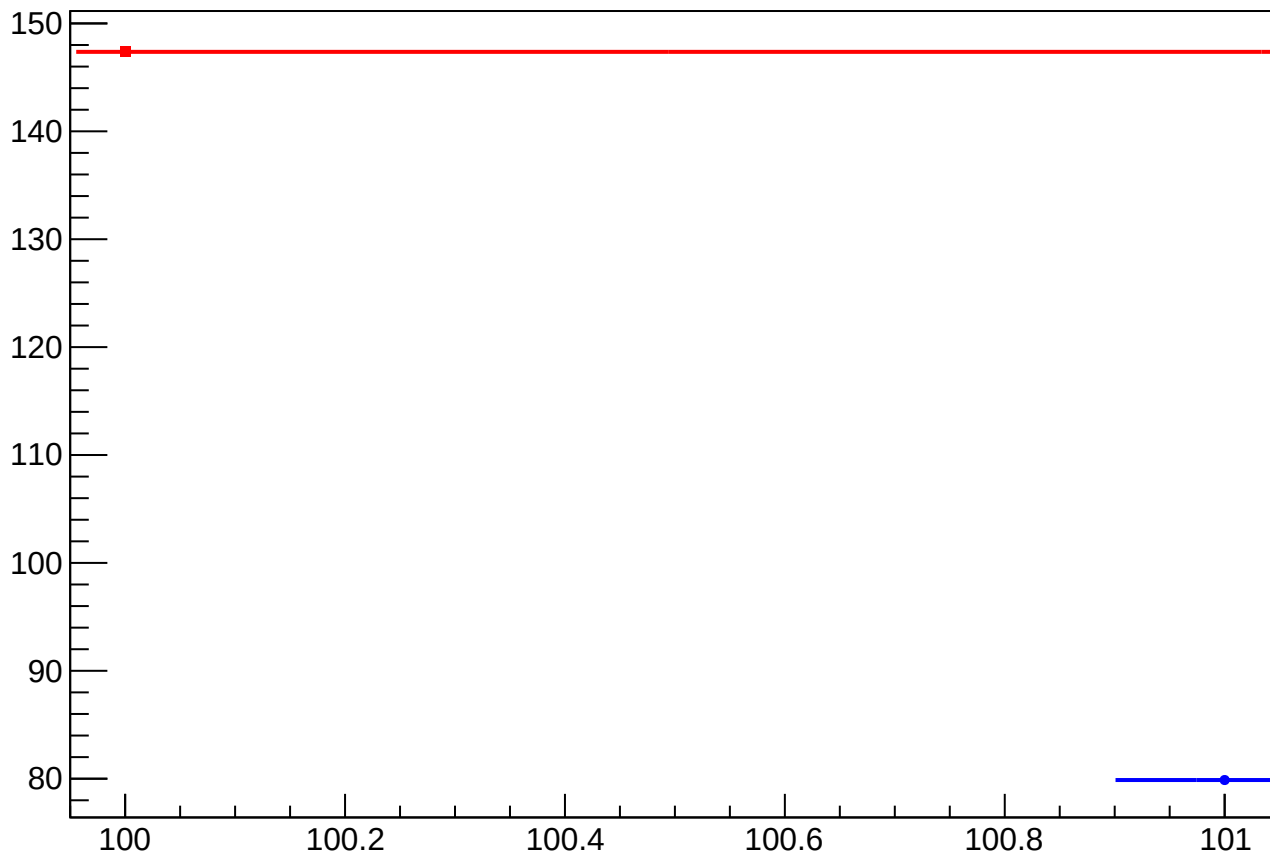
Right: 83.850+/-99.410  $\chi^2/\text{NDF}$ : 3.3/1

In: 117.163+/-101.087  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 83.850+/-99.410  $\chi^2/\text{NDF}$ : 3.3/1

eigen\_dit\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 79.877 $\pm$ 0.071  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.365 $\pm$ 0.387  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 82.098 $\pm$ 0.070  $\chi^2$ /NDF: 29337.7/1

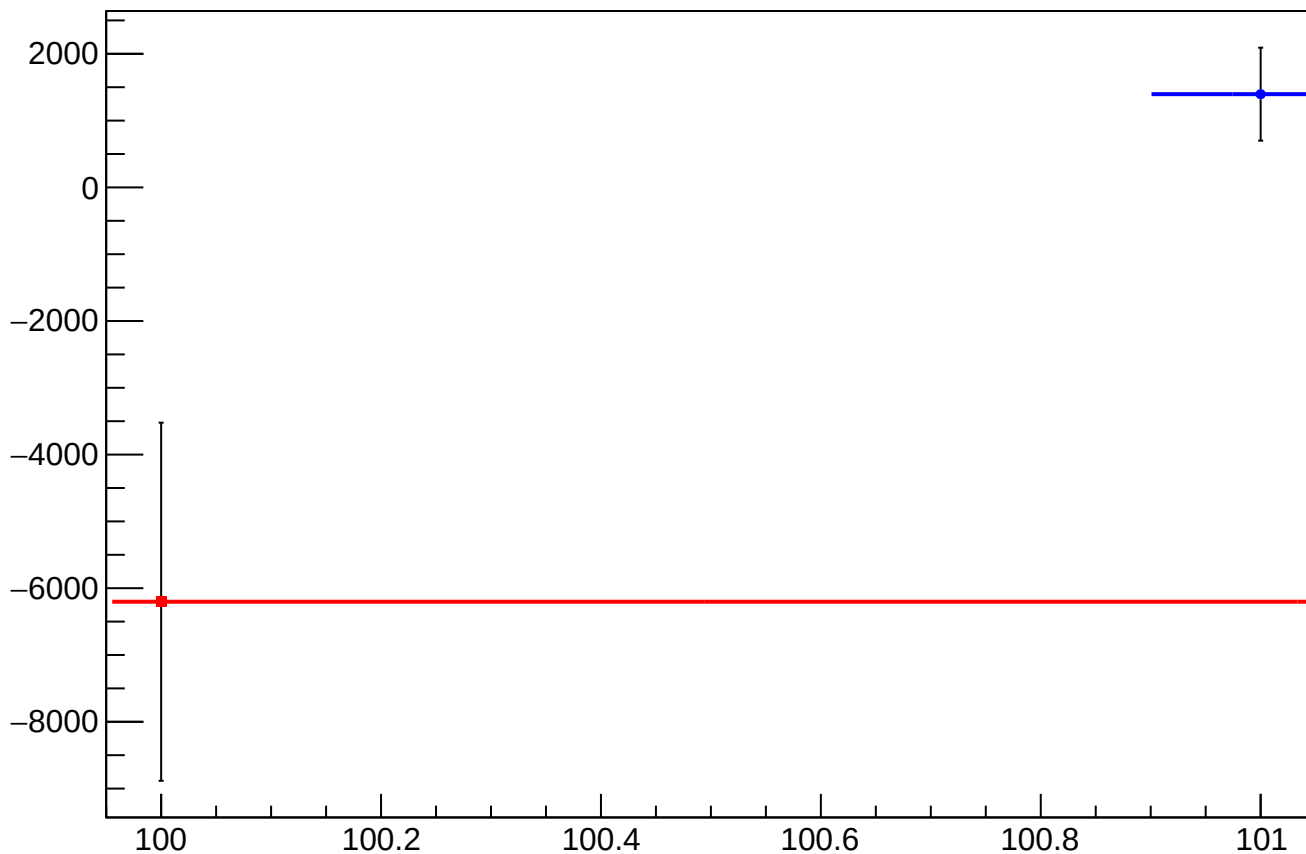
In: 79.877 $\pm$ 0.071  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.098 $\pm$ 0.070  $\chi^2$ /NDF: 29337.7/1



asym\_sam\_15\_48\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1395.954+/-695.976  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6202.566+/-2680.811  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

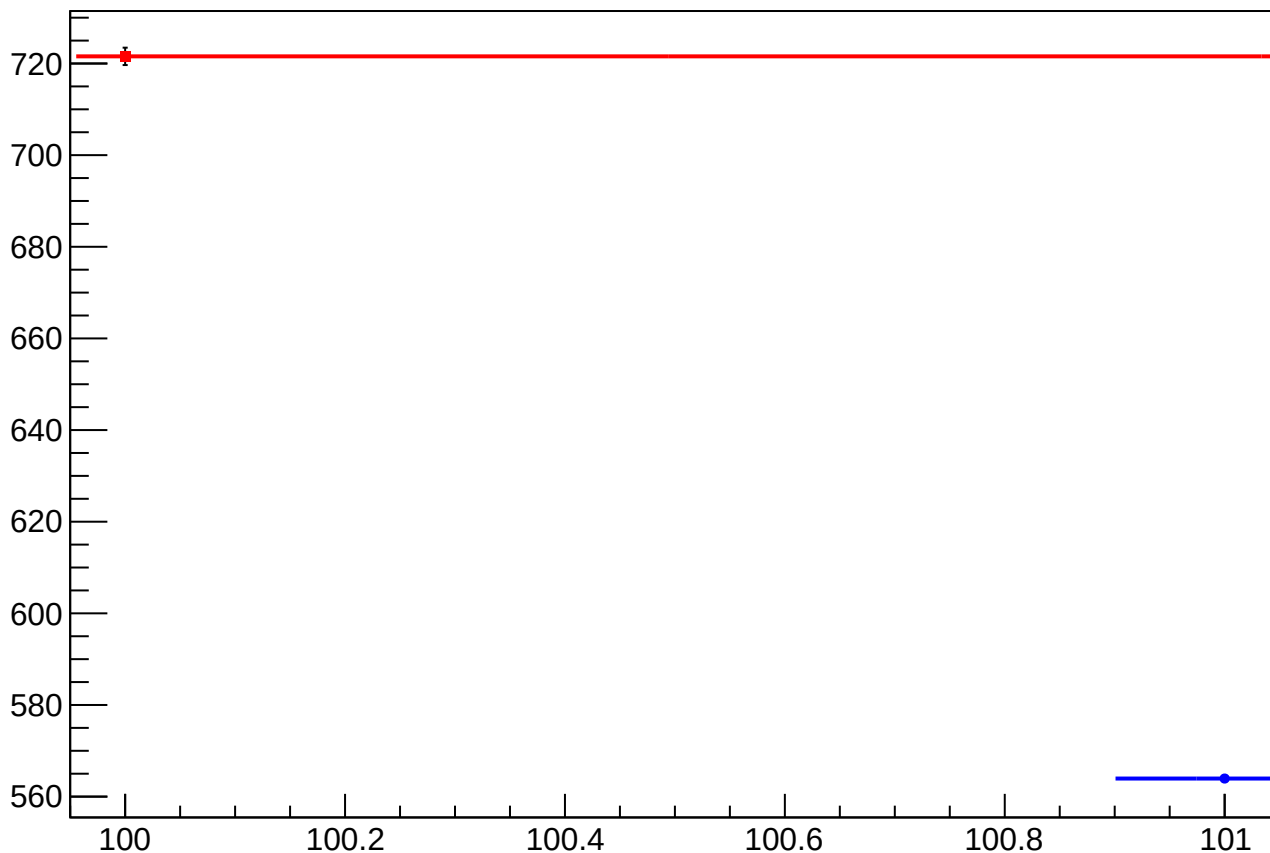
Right: 916.156+/-673.645  $\chi^2/\text{NDF}$ : 7.5/1

In: 1395.954+/-695.976  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 916.156+/-673.645  $\chi^2/\text{NDF}$ : 7.5/1

asym\_sam\_15\_48\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 563.944+/-0.492  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 721.560+/-1.896  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

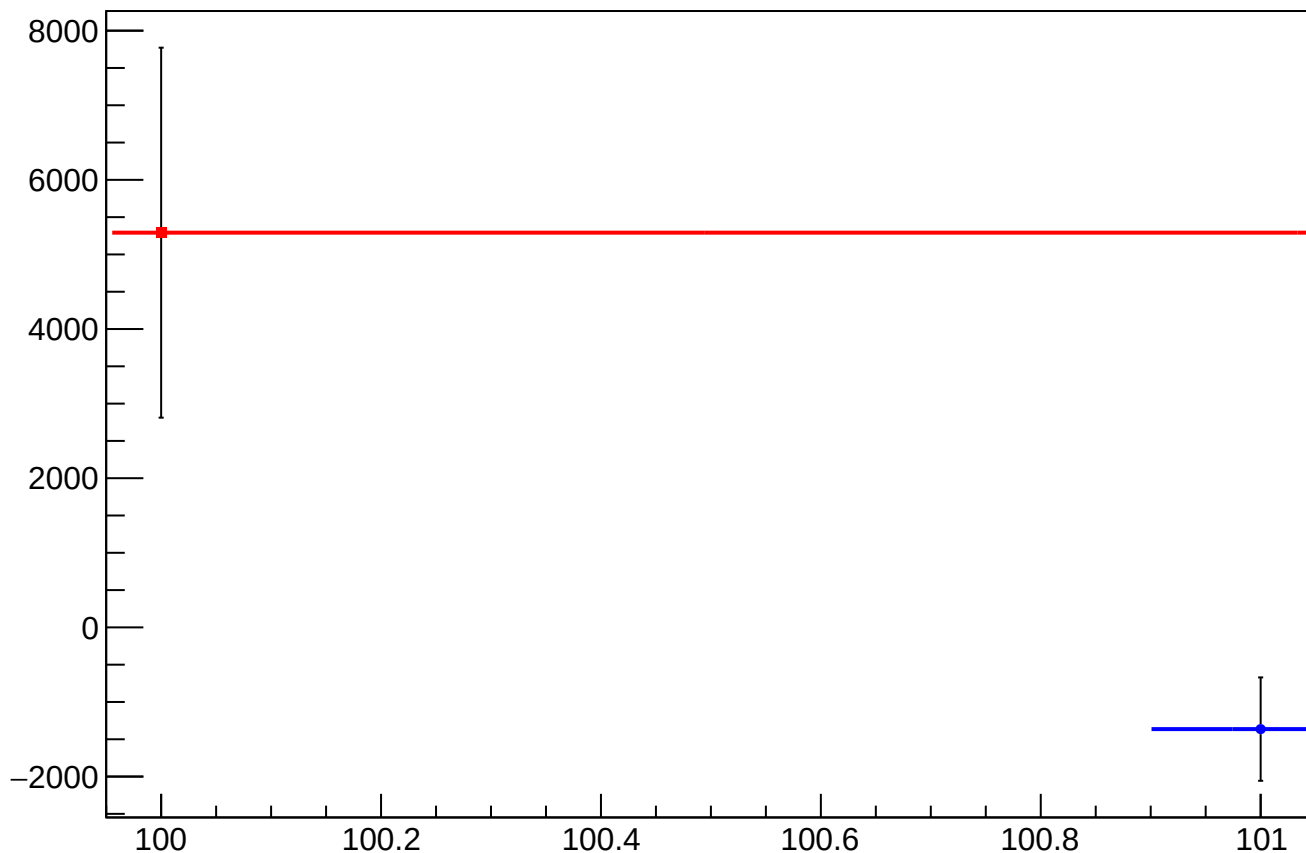
Right: 573.897+/-0.476  $\chi^2/\text{NDF}$ : 6477.0/1

In: 563.944+/-0.492  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 573.897+/-0.476  $\chi^2/\text{NDF}$ : 6477.0/1

asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: -1363.705+/-693.103  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5291.938+/-2480.188  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

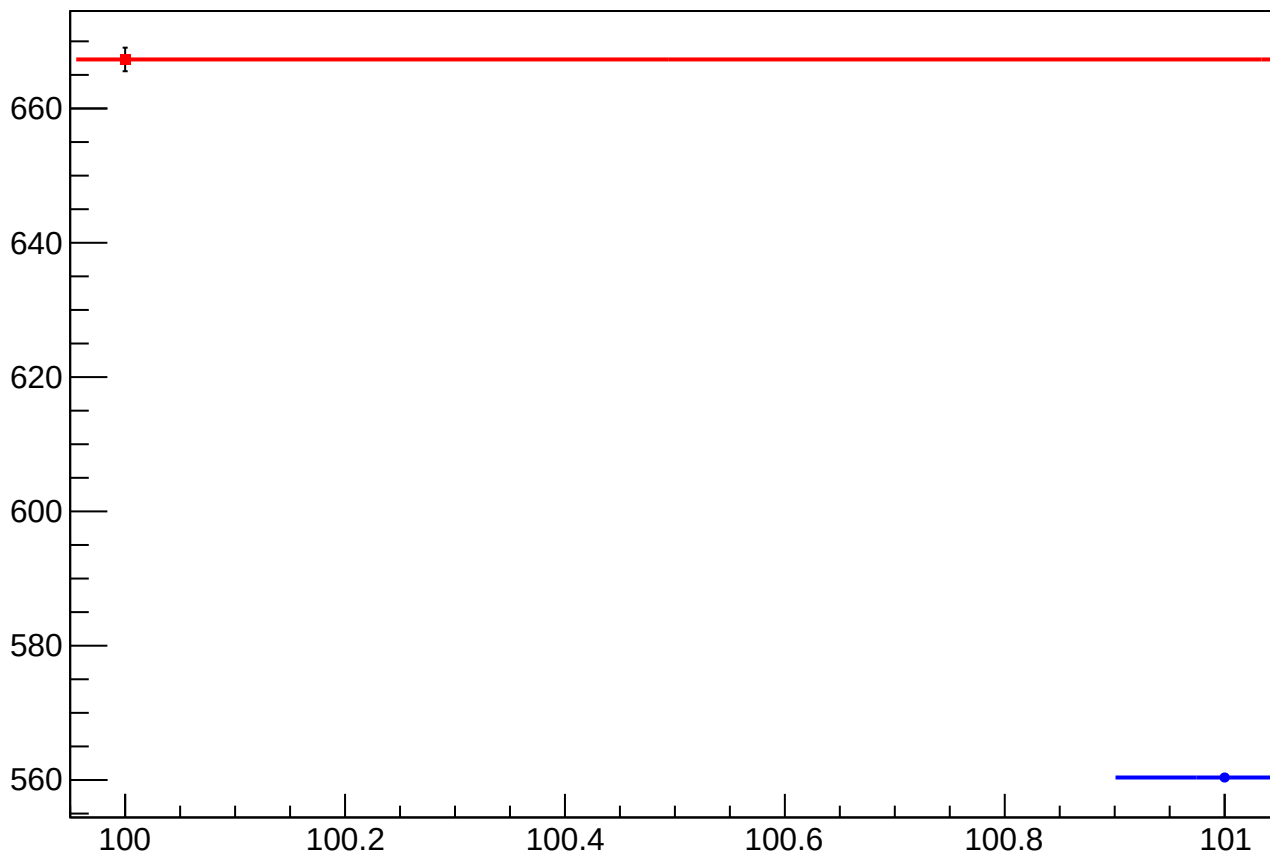
Right: -881.580+/-667.528  $\chi^2/\text{NDF}$ : 6.7/1

In: -1363.705+/-693.103  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -881.580+/-667.528  $\chi^2/\text{NDF}$ : 6.7/1

asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 560.372 $\pm$ 0.490  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 667.301 $\pm$ 1.754  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

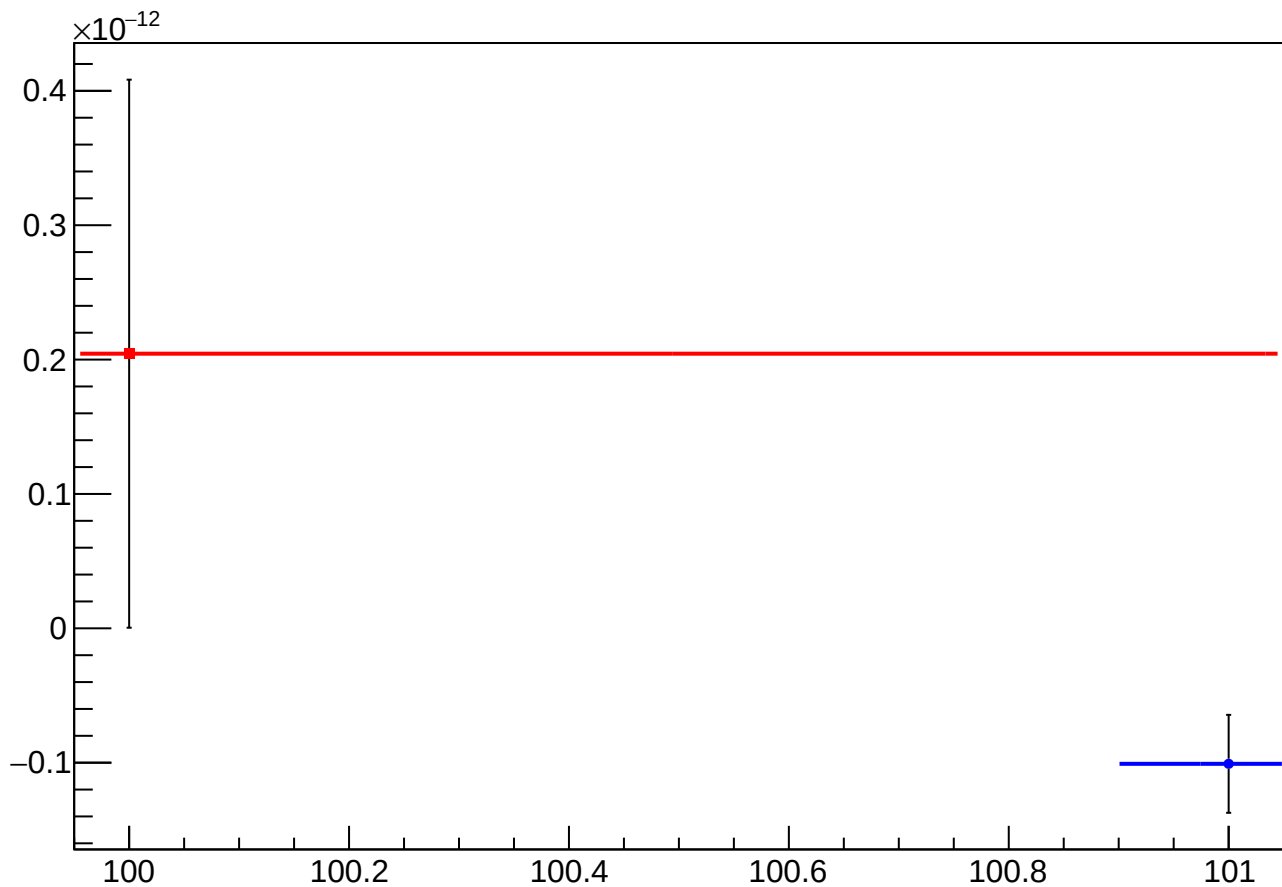
Right: 568.118 $\pm$ 0.472  $\chi^2$ /NDF: 3448.2/1

In: 560.372 $\pm$ 0.490  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 568.118 $\pm$ 0.472  $\chi^2$ /NDF: 3448.2/1

asym\_sam\_15\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

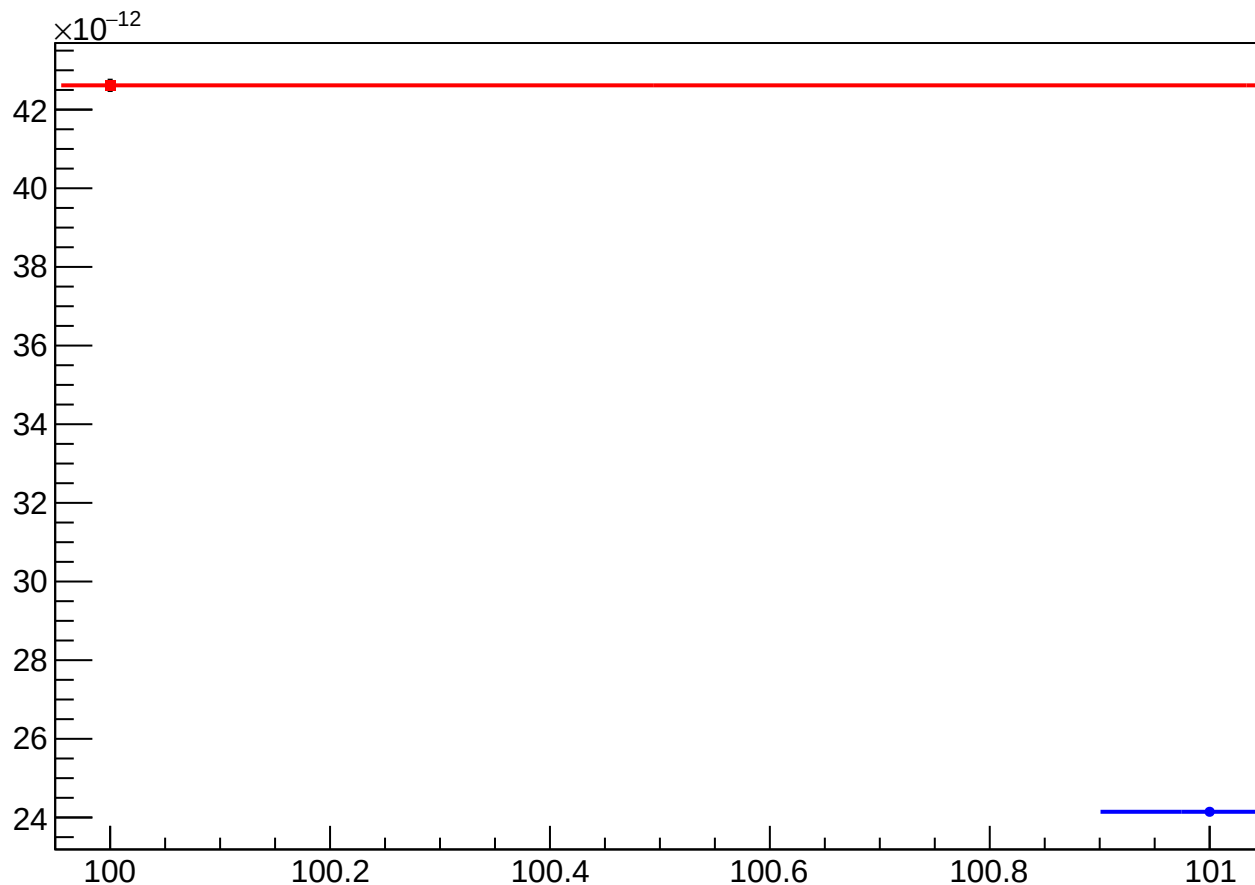
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.2/1

asym\_sam\_15\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

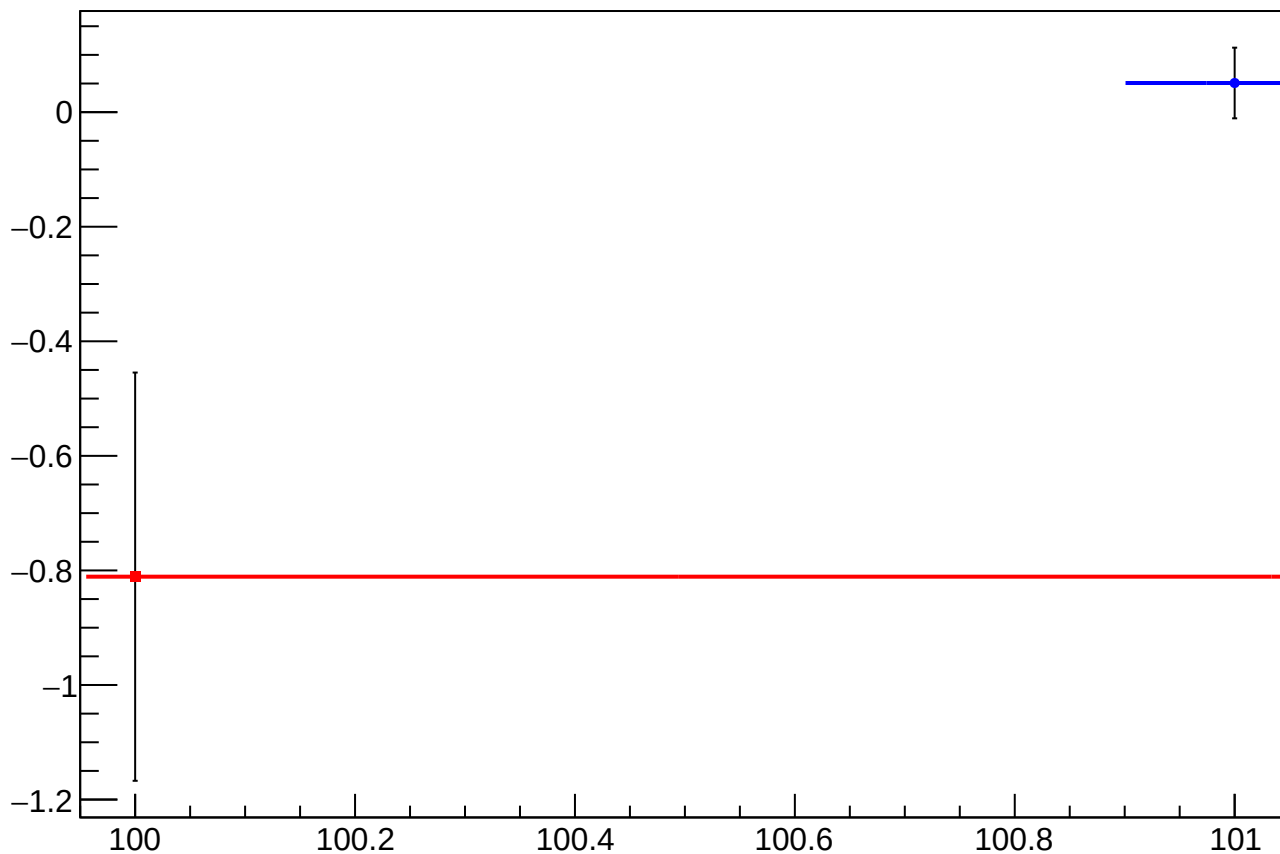
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15902.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15902.3/1

asym\_sam\_15\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.051 $\pm$ 0.062  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.811 $\pm$ 0.356  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

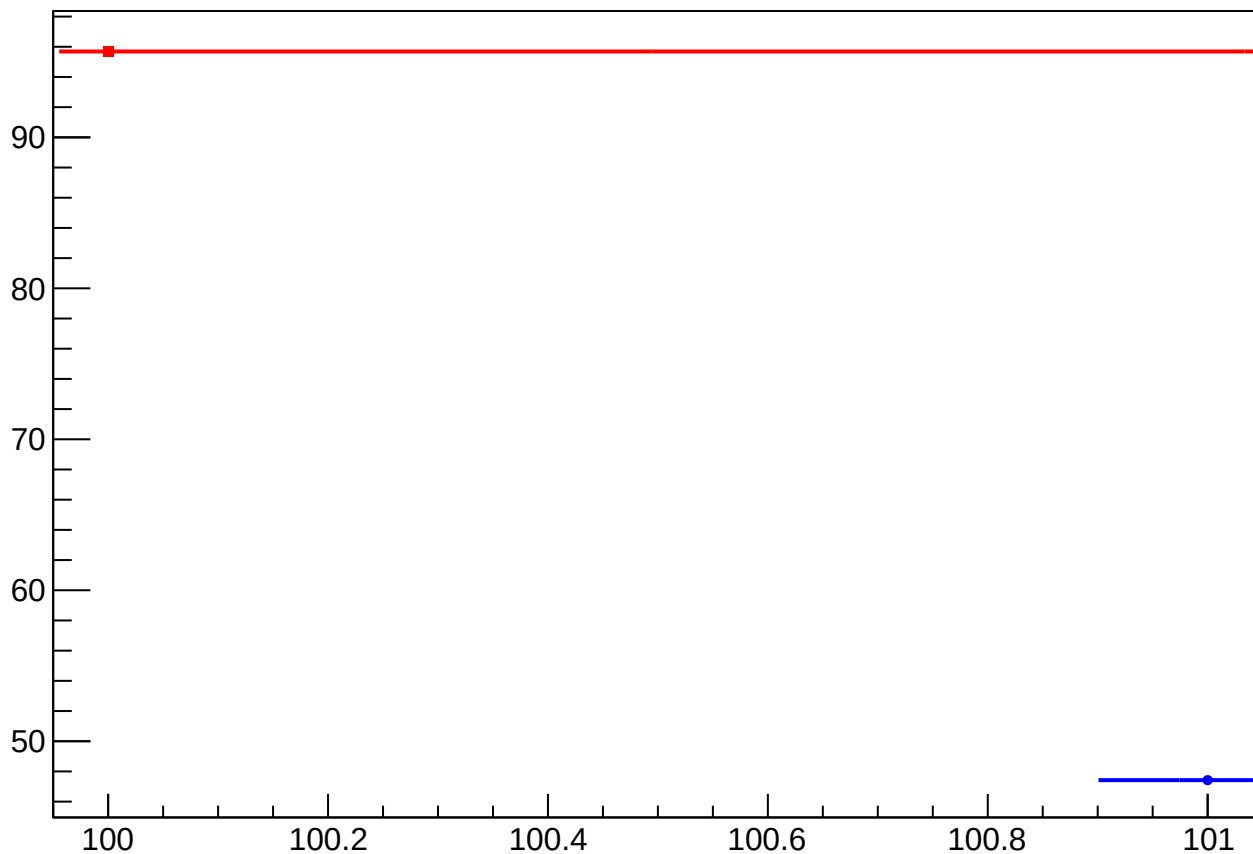
Right: 0.026 $\pm$ 0.061  $\chi^2$ /NDF: 5.7/1

In: 0.051 $\pm$ 0.062  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.026 $\pm$ 0.061  $\chi^2$ /NDF: 5.7/1

asym\_sam\_15\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 47.423+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.688+/-0.252  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 48.827+/-0.043  $\chi^2/\text{NDF}$ : 35624.4/1

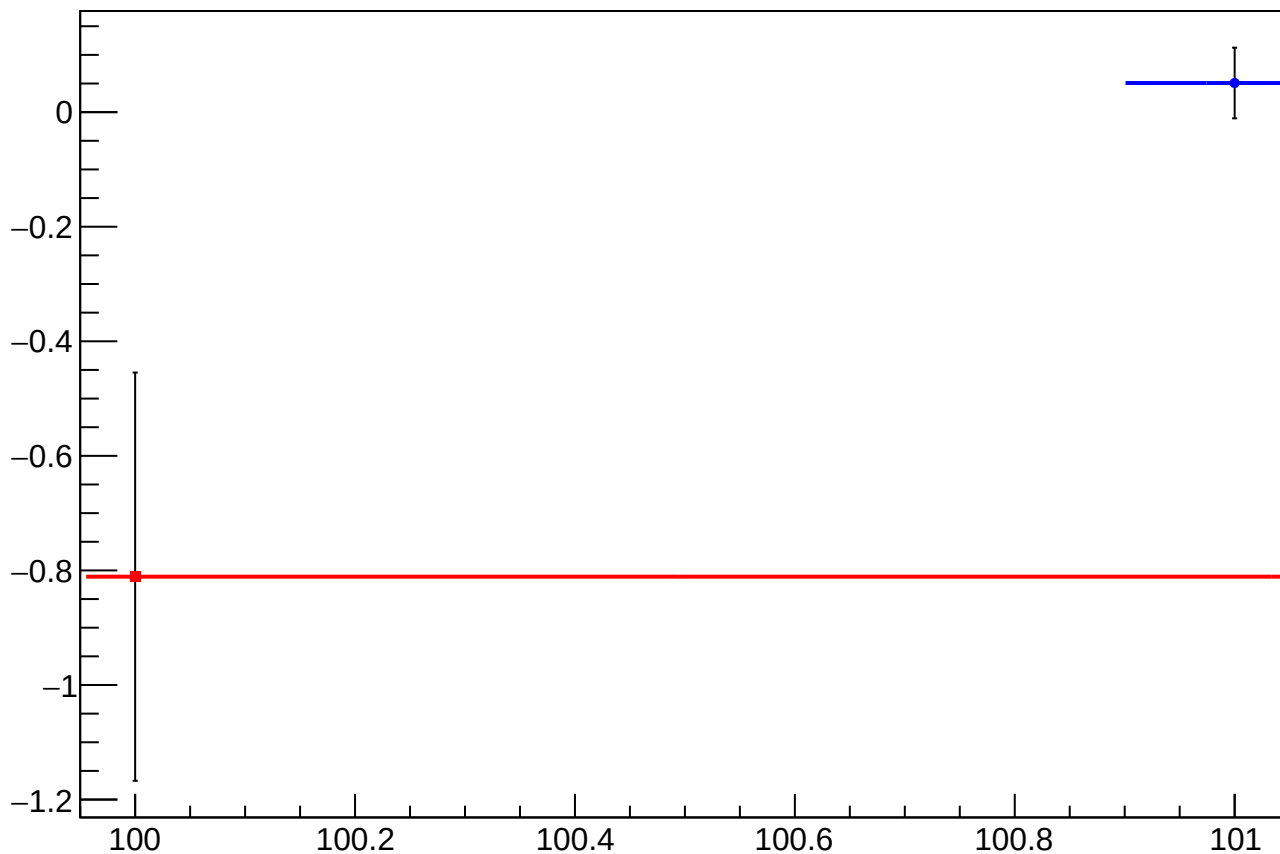
In: 47.423+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.827+/-0.043  $\chi^2/\text{NDF}$ : 35624.4/1



asym\_sam\_15\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.051+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.811+/-0.356  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

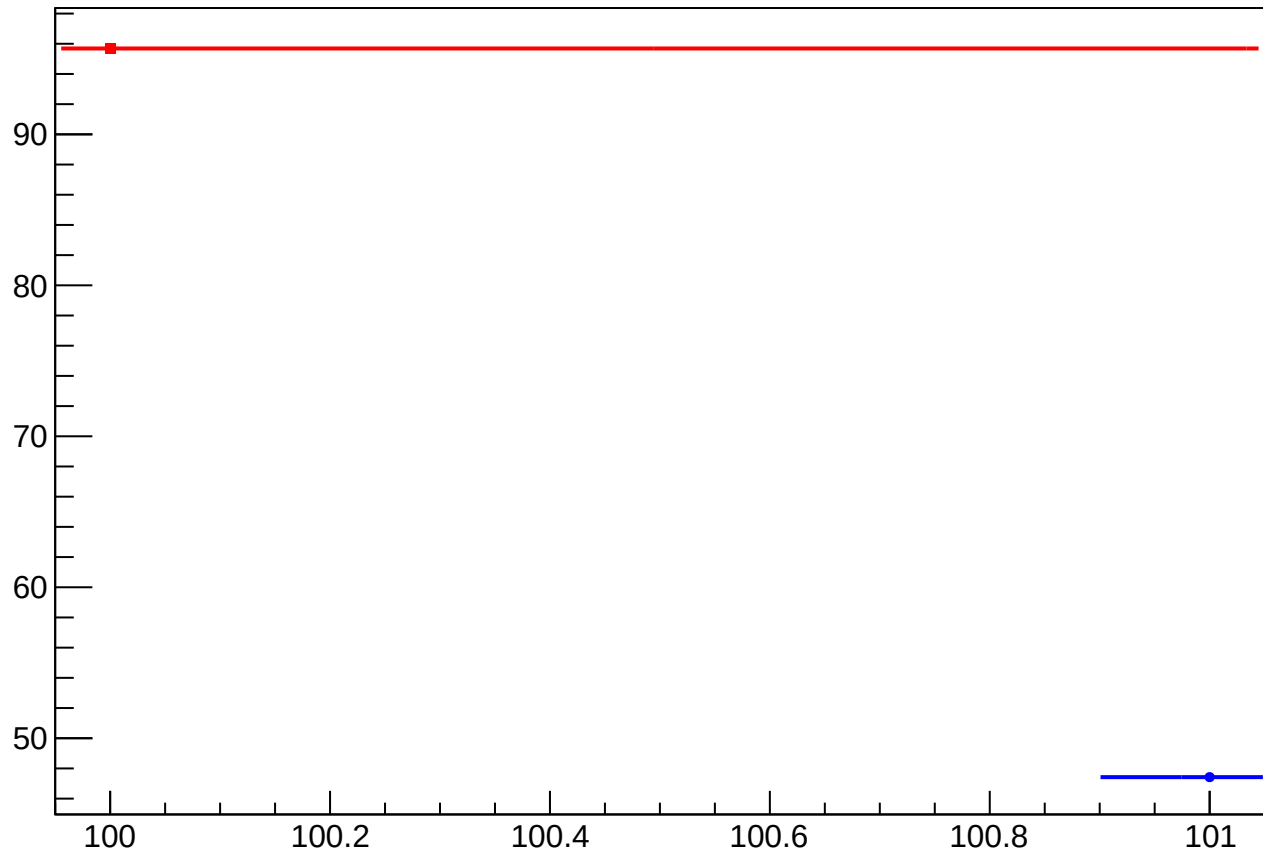
Right: 0.026+/-0.061  $\chi^2/\text{NDF}$ : 5.7/1

In: 0.051+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.026+/-0.061  $\chi^2/\text{NDF}$ : 5.7/1

asym\_sam\_15\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 47.423+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.688+/-0.252  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

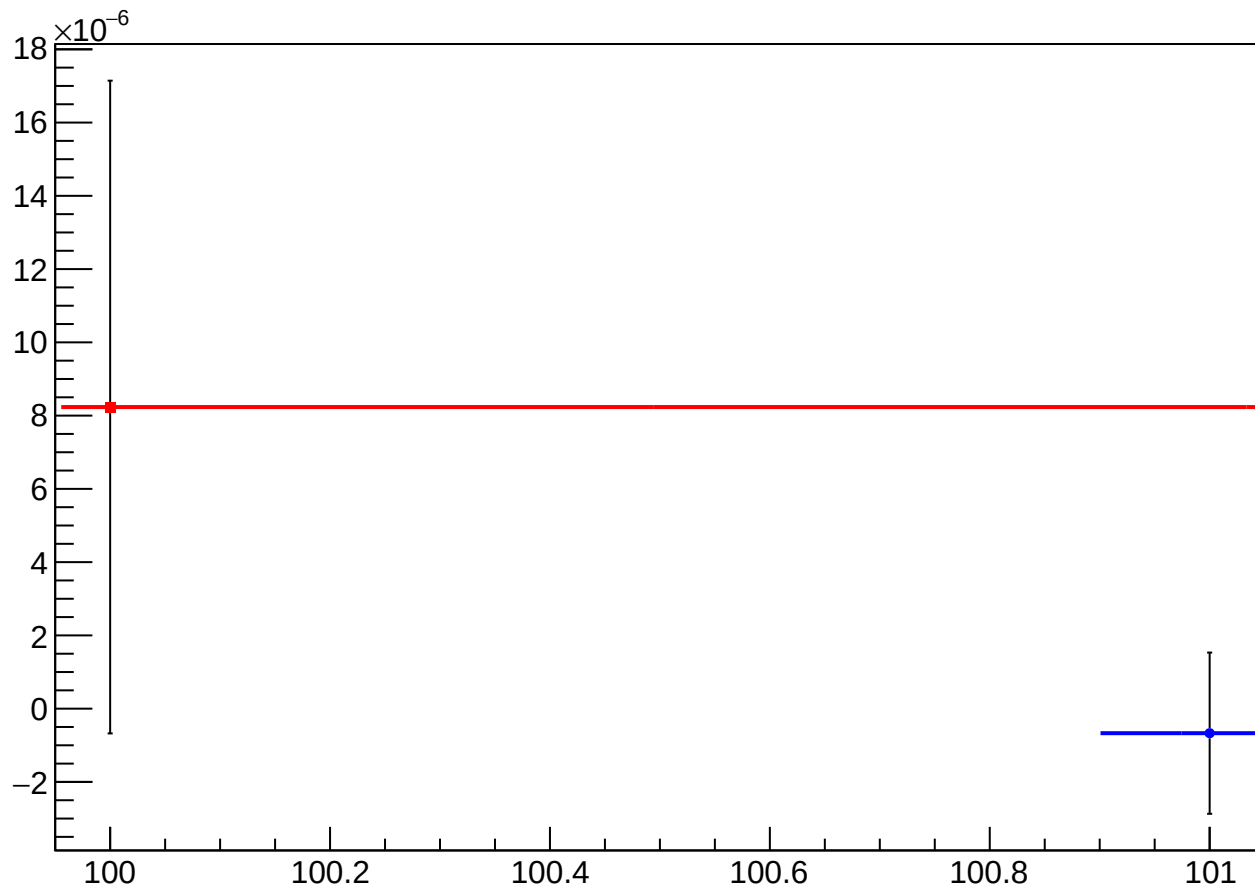
Right: 48.827+/-0.043  $\chi^2/\text{NDF}$ : 35624.4/1

In: 47.423+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.827+/-0.043  $\chi^2/\text{NDF}$ : 35624.4/1

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

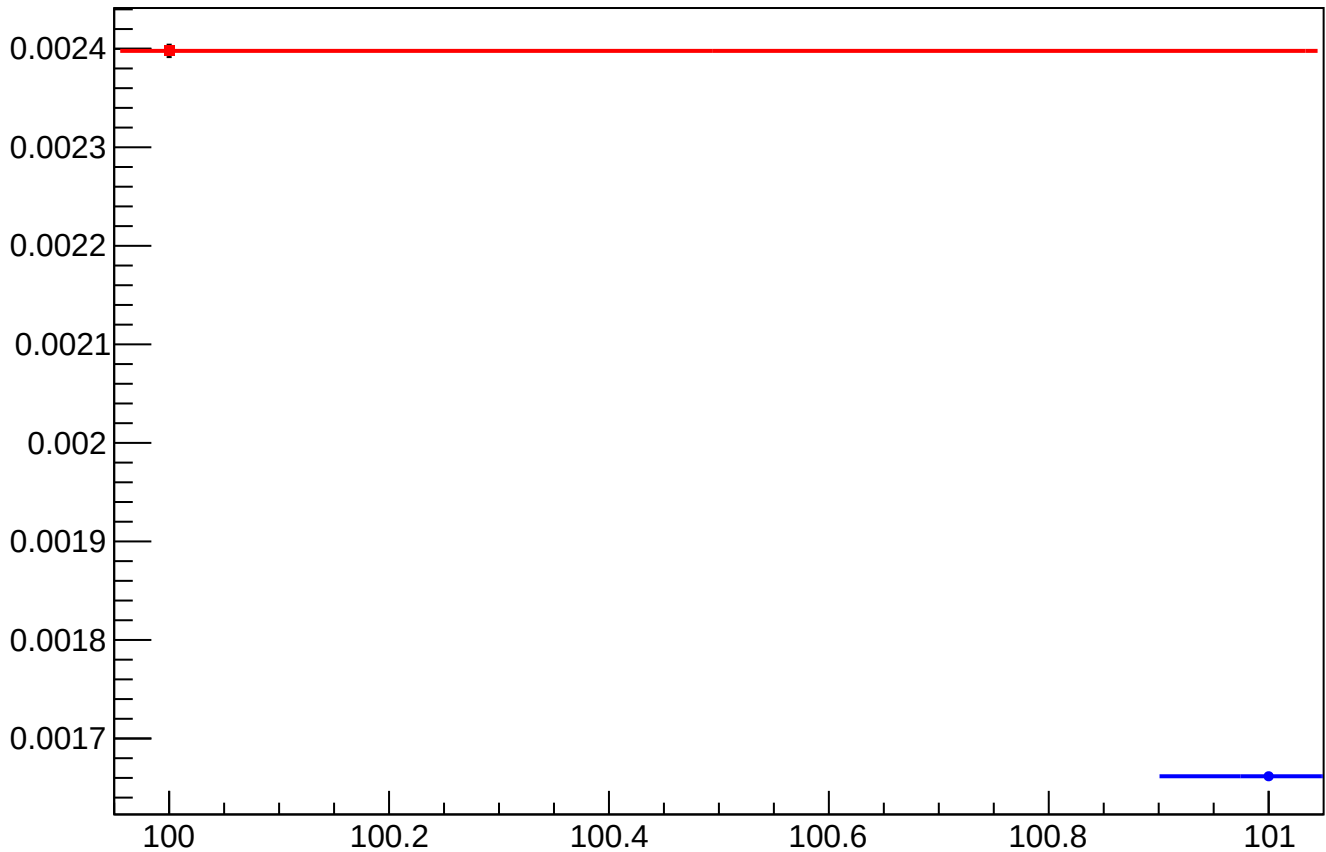
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.9/1

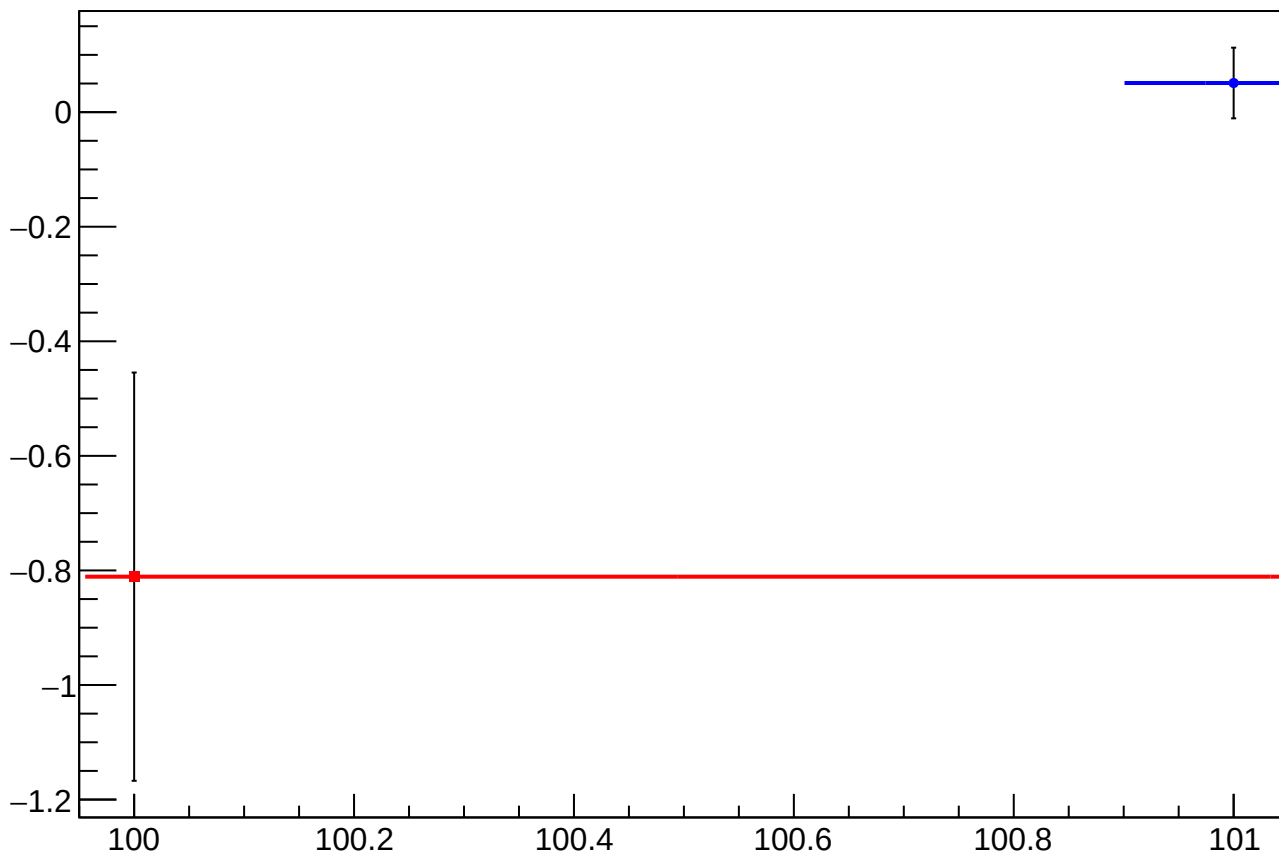
asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 12869.2/1  
 In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 12869.2/1

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.051 $\pm$ 0.062  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.811 $\pm$ 0.356  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

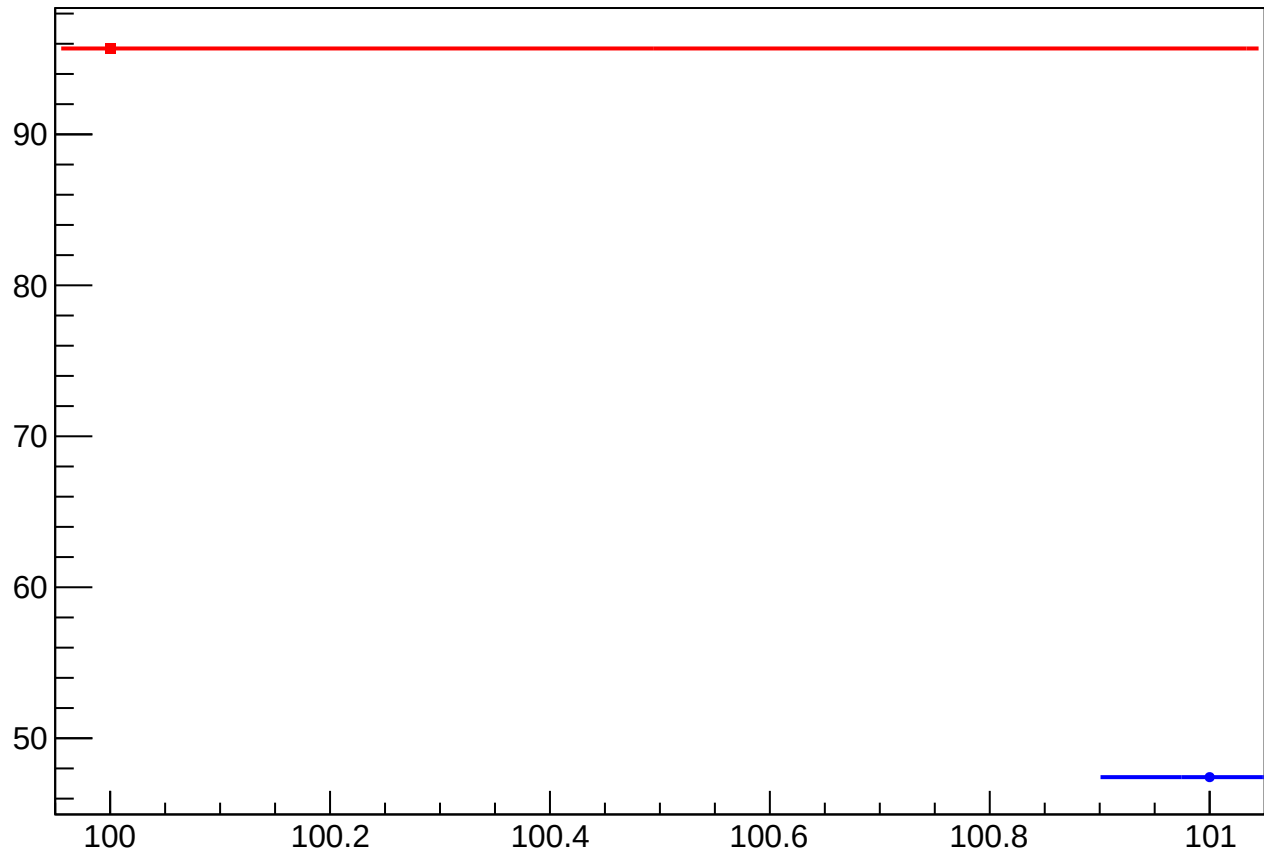
Right: 0.026 $\pm$ 0.061  $\chi^2$ /NDF: 5.7/1

In: 0.051 $\pm$ 0.062  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.026 $\pm$ 0.061  $\chi^2$ /NDF: 5.7/1

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 47.423+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.688+/-0.252  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

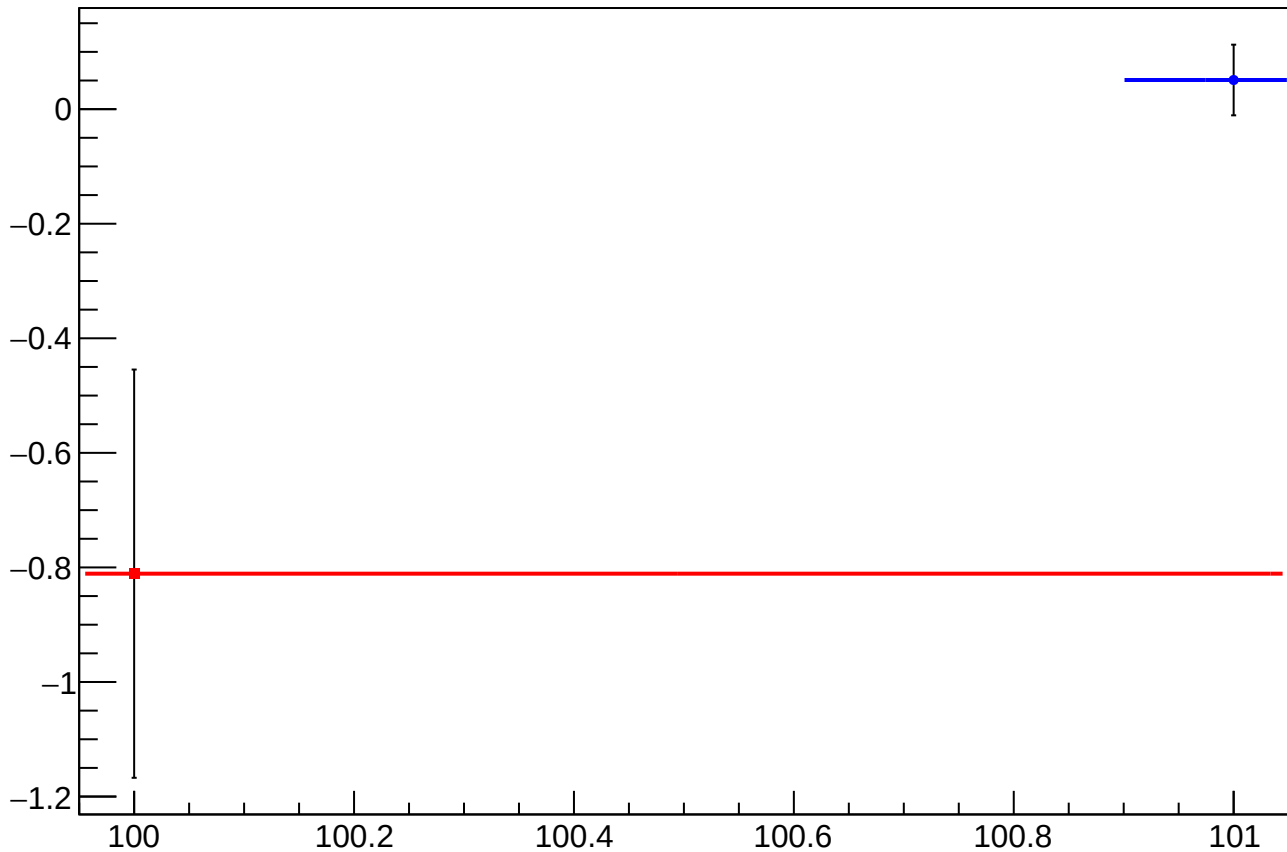
Right: 48.827+/-0.043  $\chi^2/\text{NDF}$ : 35623.9/1

In: 47.423+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.827+/-0.043  $\chi^2/\text{NDF}$ : 35623.9/1

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.051 $\pm$ 0.062  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.811 $\pm$ 0.356  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

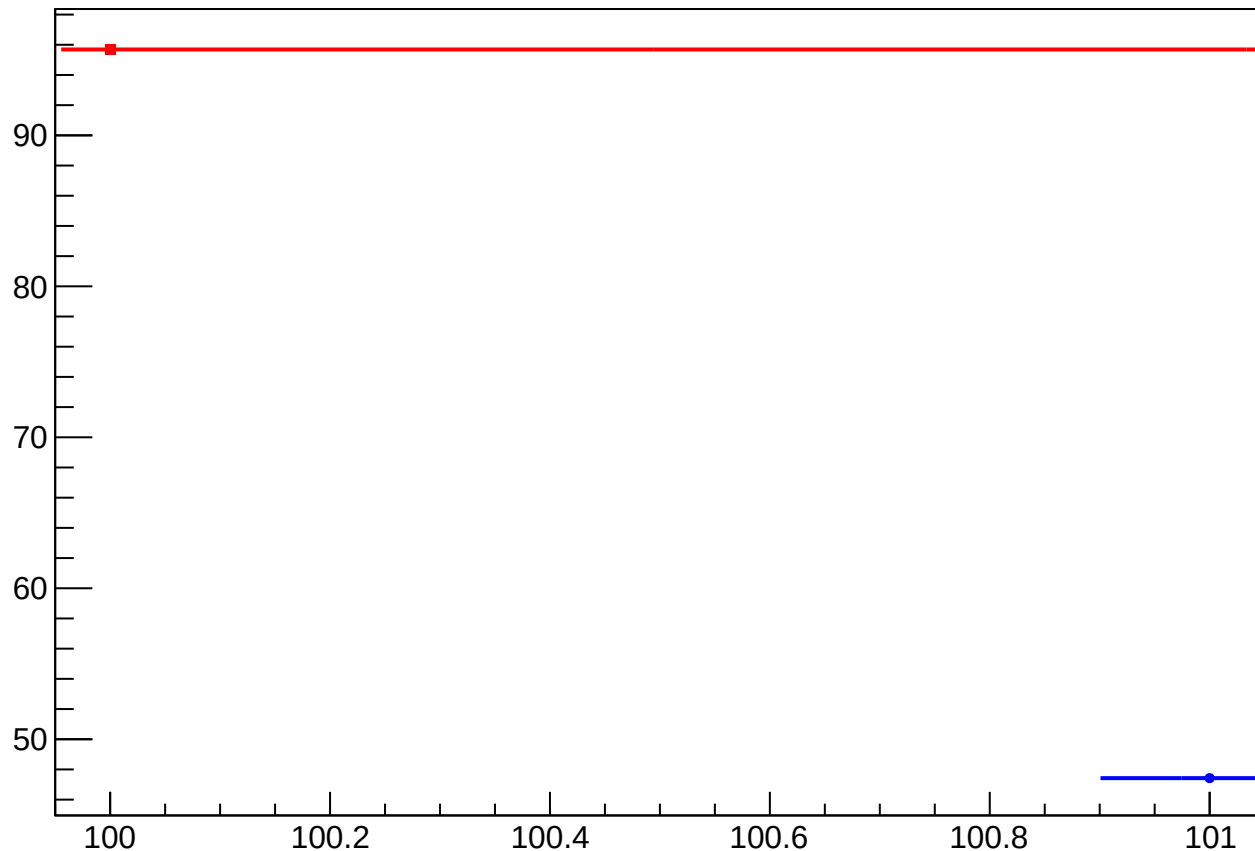
Right: 0.026 $\pm$ 0.061  $\chi^2$ /NDF: 5.7/1

In: 0.051 $\pm$ 0.062  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.026 $\pm$ 0.061  $\chi^2$ /NDF: 5.7/1

asym\_sam\_15\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 47.423+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 95.688+/-0.252  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 48.827+/-0.043  $\chi^2/\text{NDF}$ : 35623.9/1

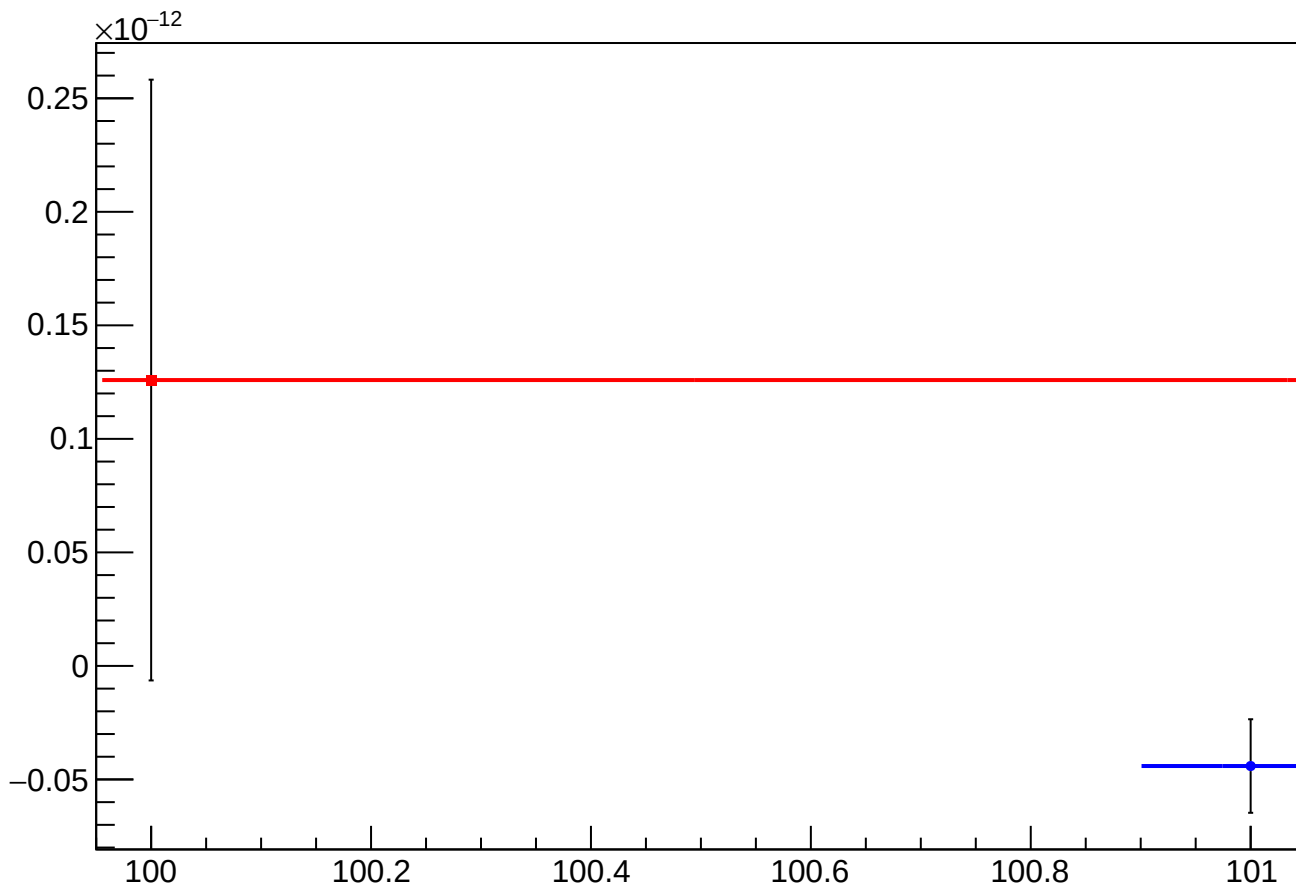
In: 47.423+/-0.044  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.827+/-0.043  $\chi^2/\text{NDF}$ : 35623.9/1



asym\_sam\_15\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

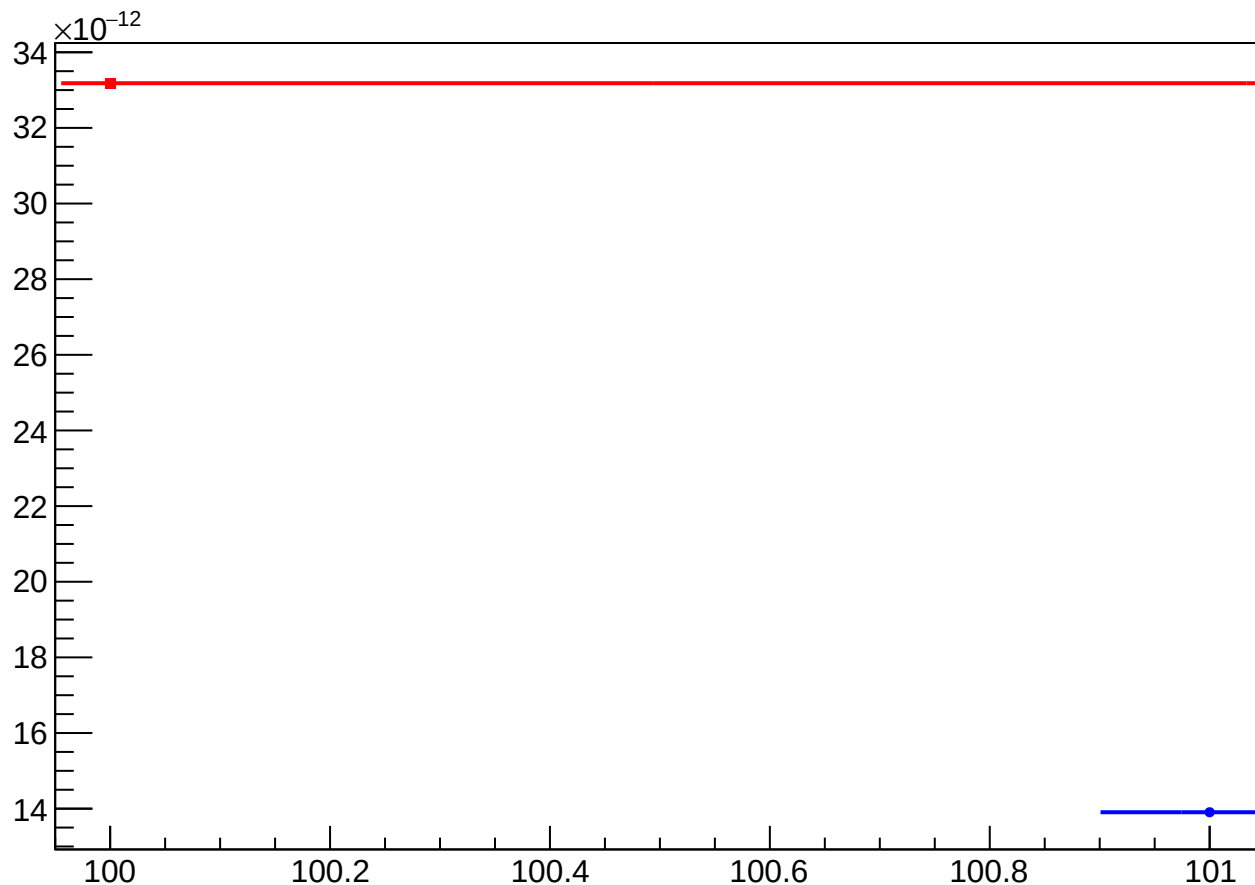
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.6/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.6/1

asym\_sam\_15\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

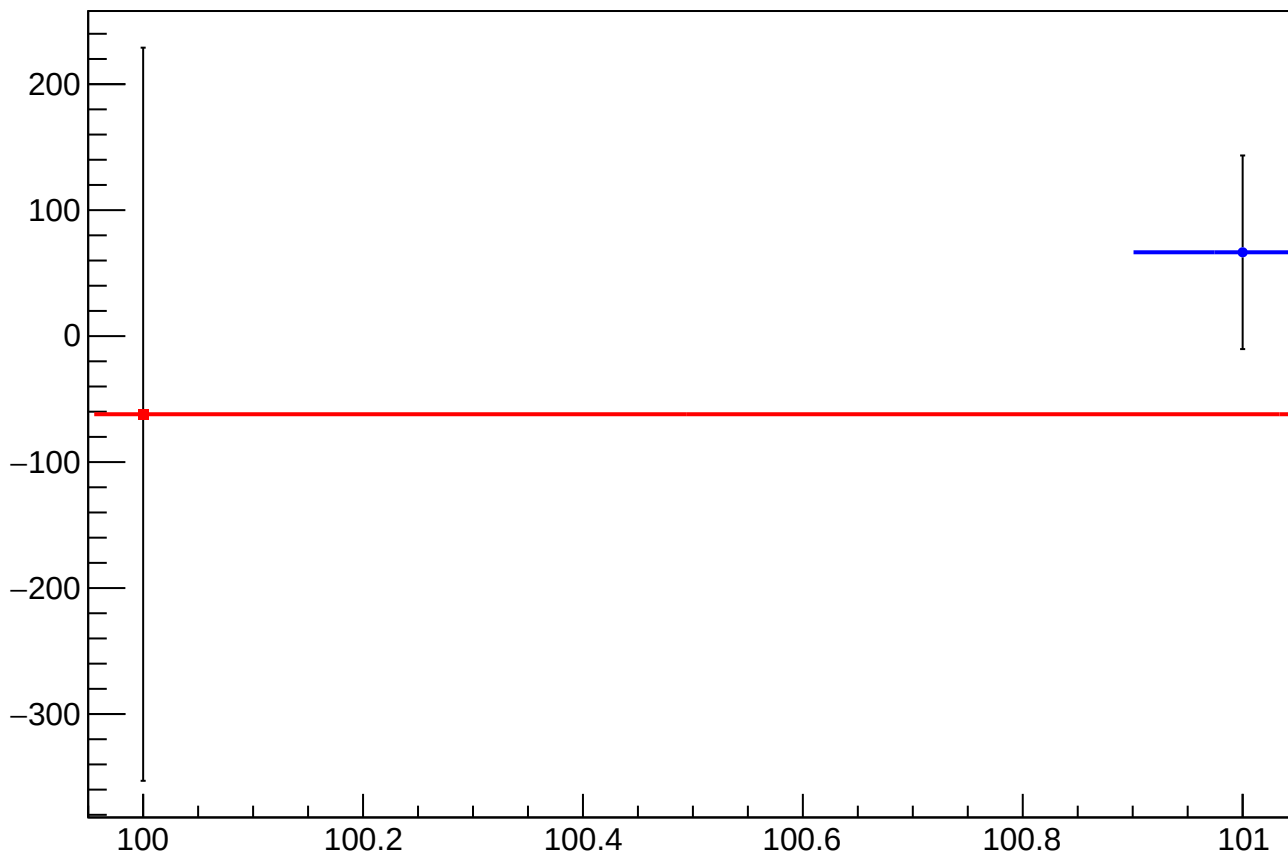
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 41454.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 41454.4/1

reg\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 66.548+/-76.846  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -62.011+/-290.985  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

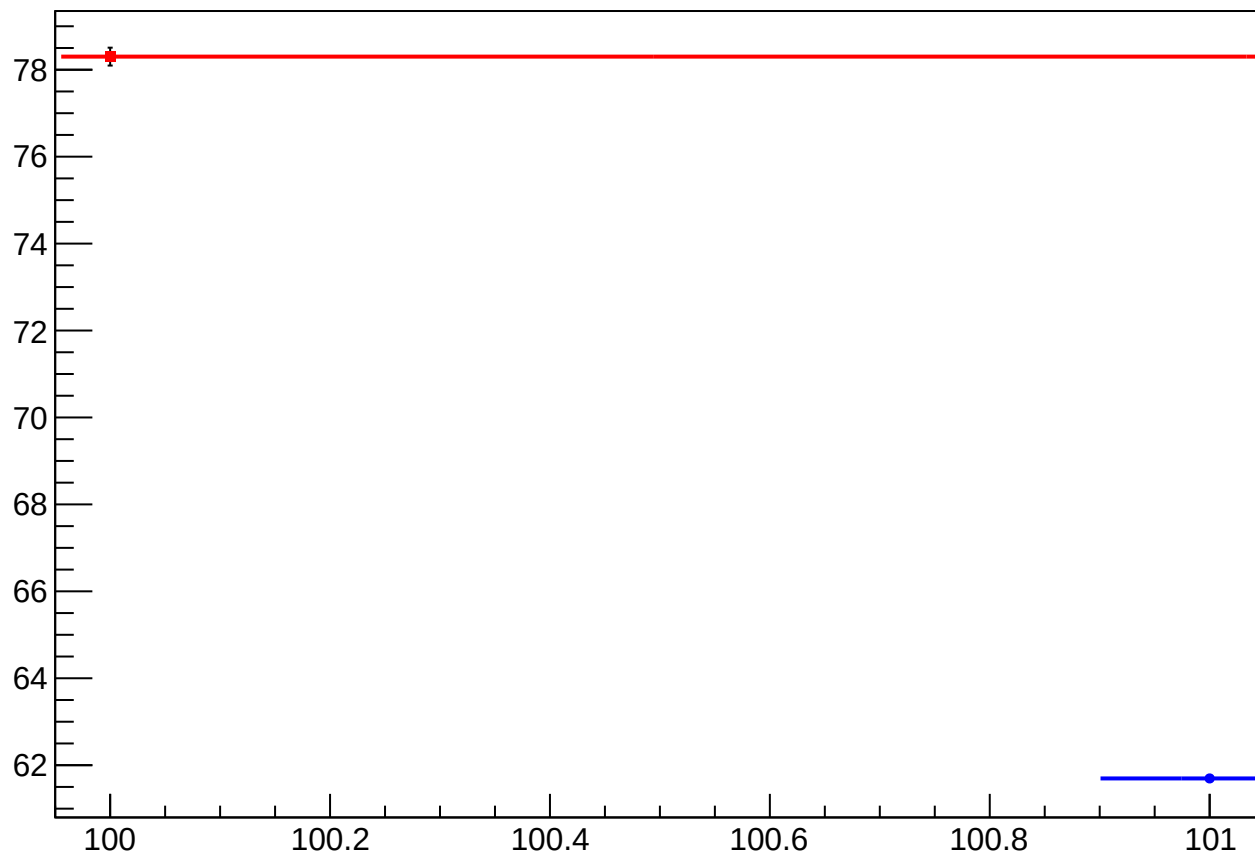
Right: 58.166+/-74.299  $\chi^2/\text{NDF}$ : 0.2/1

In: 66.548+/-76.846  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.166+/-74.299  $\chi^2/\text{NDF}$ : 0.2/1

reg\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 61.695 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 78.302 $\pm$ 0.206  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

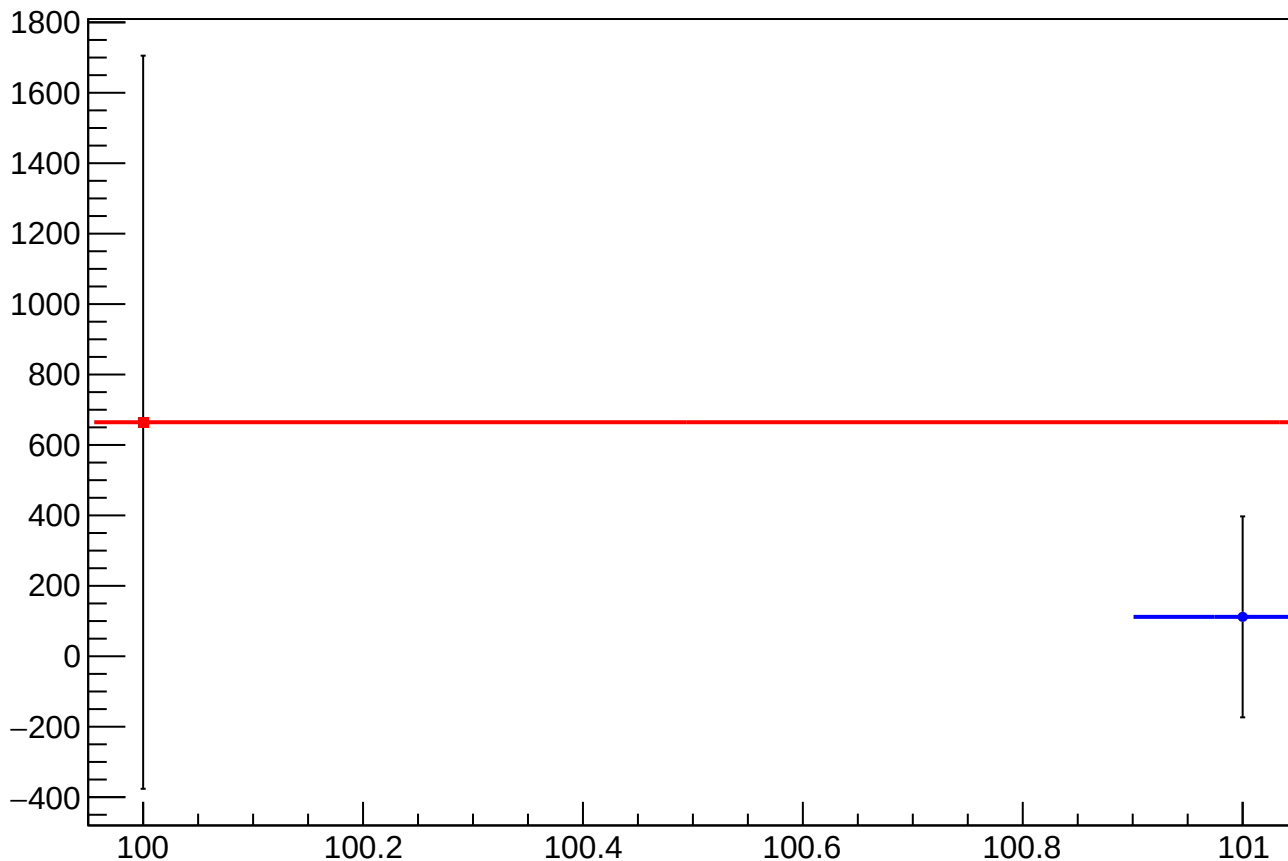
Right: 62.778 $\pm$ 0.053  $\chi^2$ /NDF: 6089.2/1

In: 61.695 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 62.778 $\pm$ 0.053  $\chi^2$ /NDF: 6089.2/1

asym\_sam\_37\_48\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 111.910 $\pm$ 285.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 664.535 $\pm$ 1040.817  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

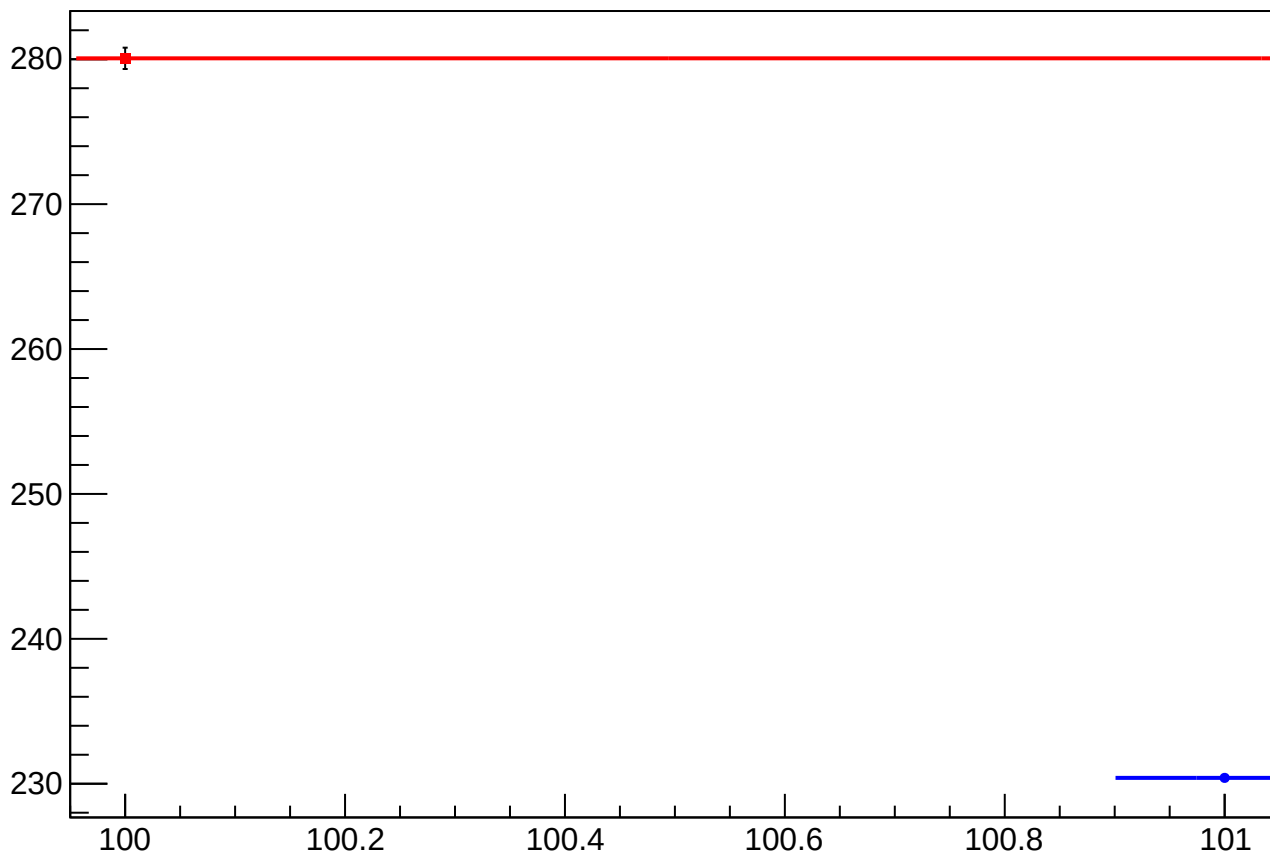
Right: 150.533 $\pm$ 275.156  $\chi^2$ /NDF: 0.3/1

In: 111.910 $\pm$ 285.306  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 150.533 $\pm$ 275.156  $\chi^2$ /NDF: 0.3/1

asym\_sam\_37\_48\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 230.404 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 280.063 $\pm$ 0.736  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

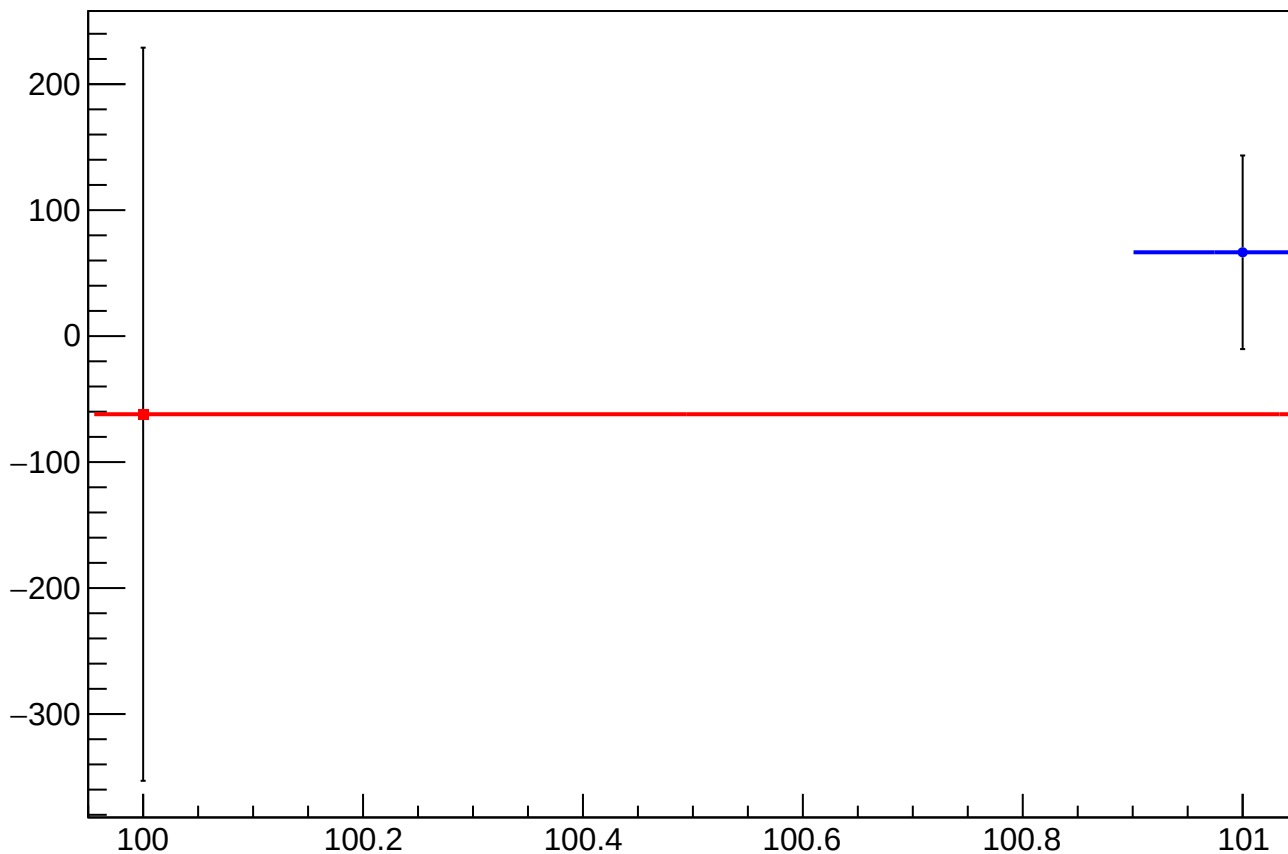
Right: 233.875 $\pm$ 0.195  $\chi^2$ /NDF: 4234.5/1

In: 230.404 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 233.875 $\pm$ 0.195  $\chi^2$ /NDF: 4234.5/1

cor\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 66.542+/-76.846  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -62.015+/-290.985  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 58.161+/-74.299  $\chi^2/\text{NDF}$ : 0.2/1

In: 66.542+/-76.846  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.161+/-74.299  $\chi^2/\text{NDF}$ : 0.2/1

cor\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 61.695 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 78.302 $\pm$ 0.206  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 62.778 $\pm$ 0.053  $\chi^2$ /NDF: 6089.2/1

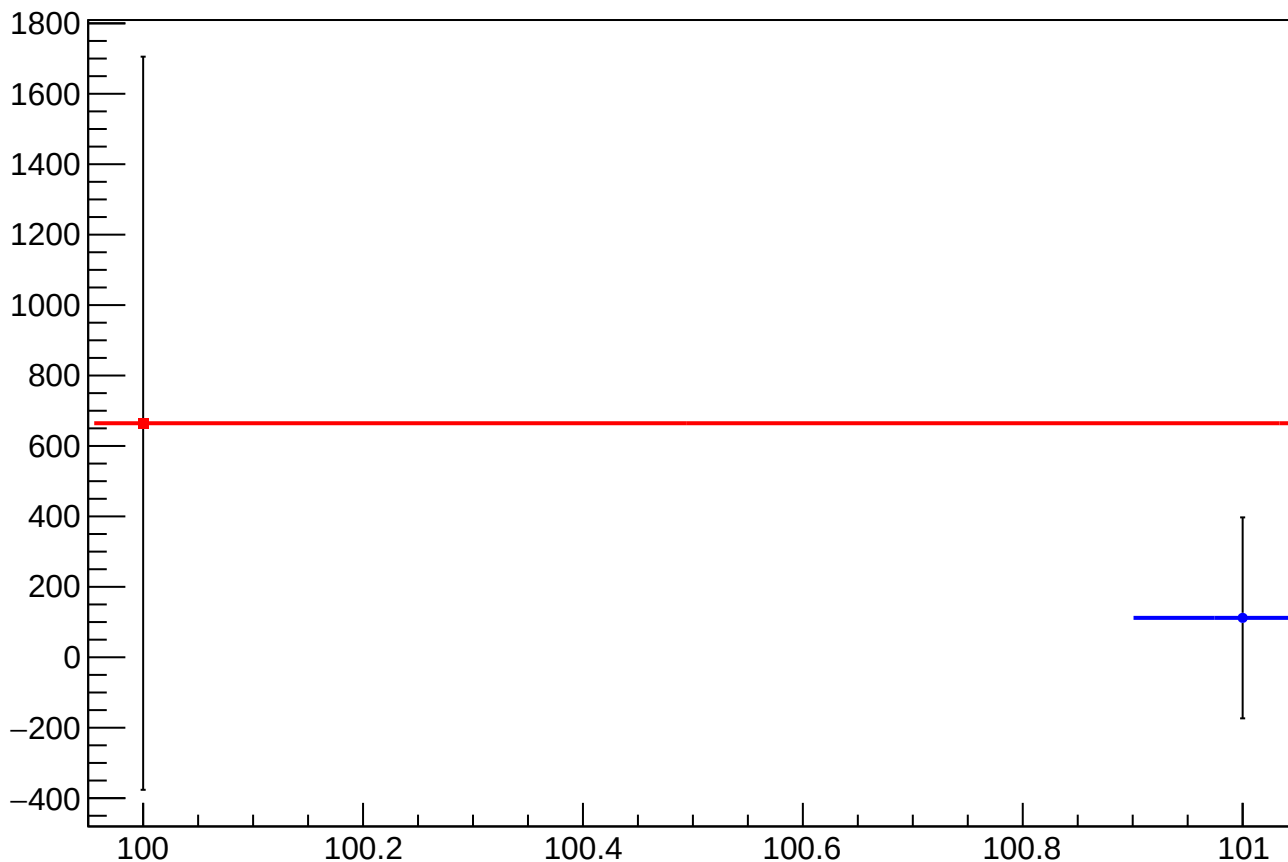
In: 61.695 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 62.778 $\pm$ 0.053  $\chi^2$ /NDF: 6089.2/1



asym\_sam\_37\_48\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 111.897 $\pm$ 285.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 664.540 $\pm$ 1040.816  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

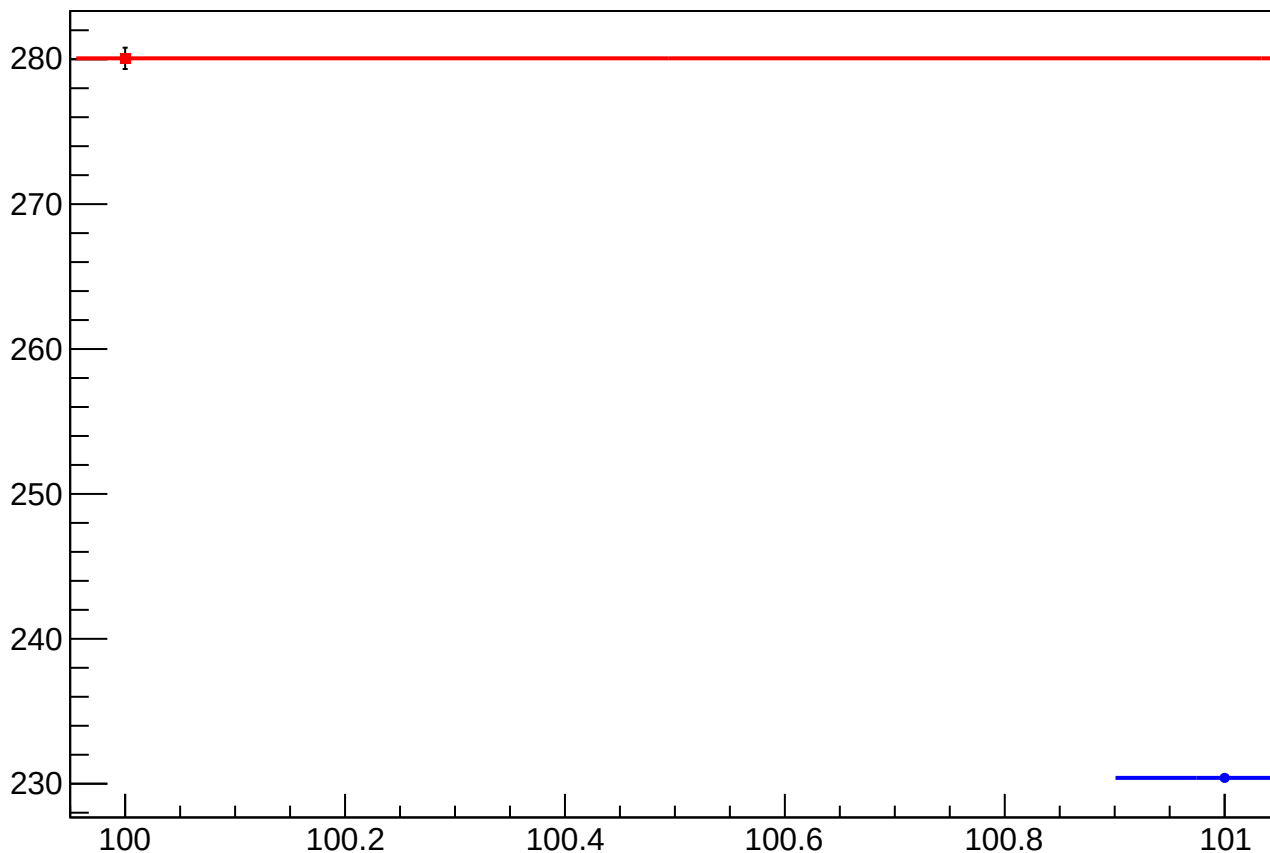
Right: 150.520 $\pm$ 275.156  $\chi^2$ /NDF: 0.3/1

In: 111.897 $\pm$ 285.306  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 150.520 $\pm$ 275.156  $\chi^2$ /NDF: 0.3/1

asym\_sam\_37\_48\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 230.404 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 280.062 $\pm$ 0.736  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

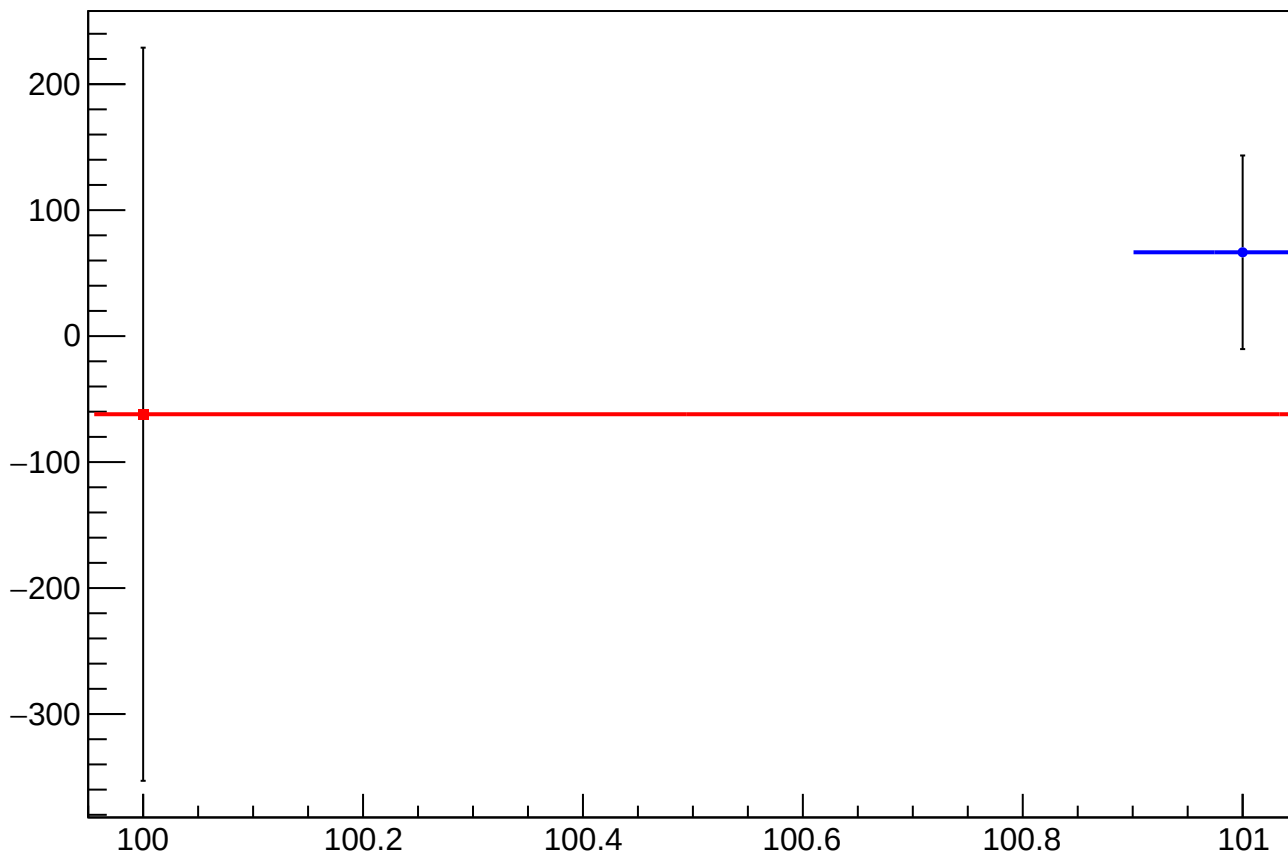
Right: 233.874 $\pm$ 0.195  $\chi^2$ /NDF: 4234.5/1

In: 230.404 $\pm$ 0.202  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 233.874 $\pm$ 0.195  $\chi^2$ /NDF: 4234.5/1

eigen\_cor\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 66.542+/-76.846  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -62.015+/-290.985  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 58.161+/-74.299  $\chi^2/\text{NDF}$ : 0.2/1

In: 66.542+/-76.846  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.161+/-74.299  $\chi^2/\text{NDF}$ : 0.2/1

eigen\_cor\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 61.695+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 78.302+/-0.206  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

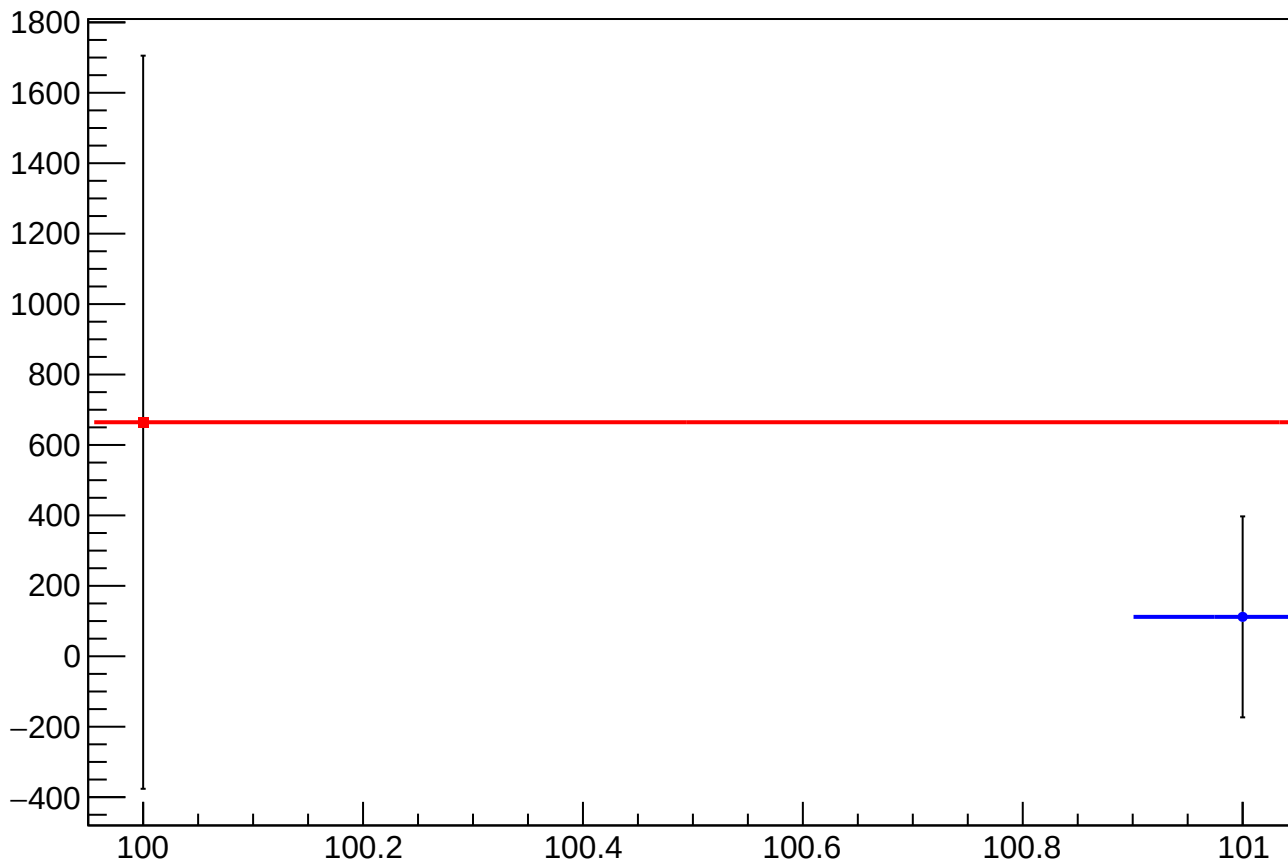
Right: 62.778+/-0.053  $\chi^2/\text{NDF}$ : 6089.2/1

In: 61.695+/-0.054  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 62.778+/-0.053  $\chi^2/\text{NDF}$ : 6089.2/1

asym\_sam\_37\_48\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 111.897 $\pm$ 285.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 664.540 $\pm$ 1040.816  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

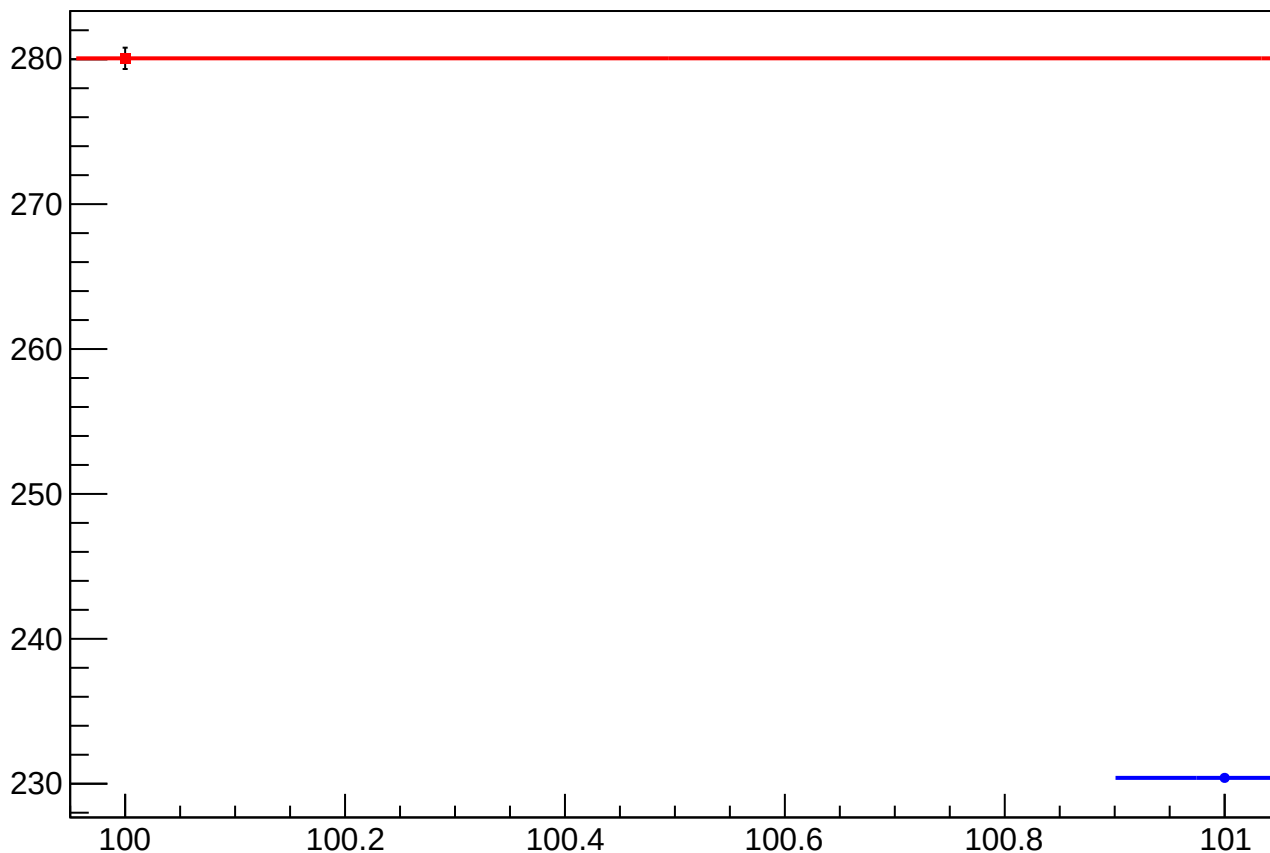
Right: 150.520 $\pm$ 275.156  $\chi^2$ /NDF: 0.3/1

In: 111.897 $\pm$ 285.306  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 150.520 $\pm$ 275.156  $\chi^2$ /NDF: 0.3/1

asym\_sam\_37\_48\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 230.404 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 280.062 $\pm$ 0.736  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

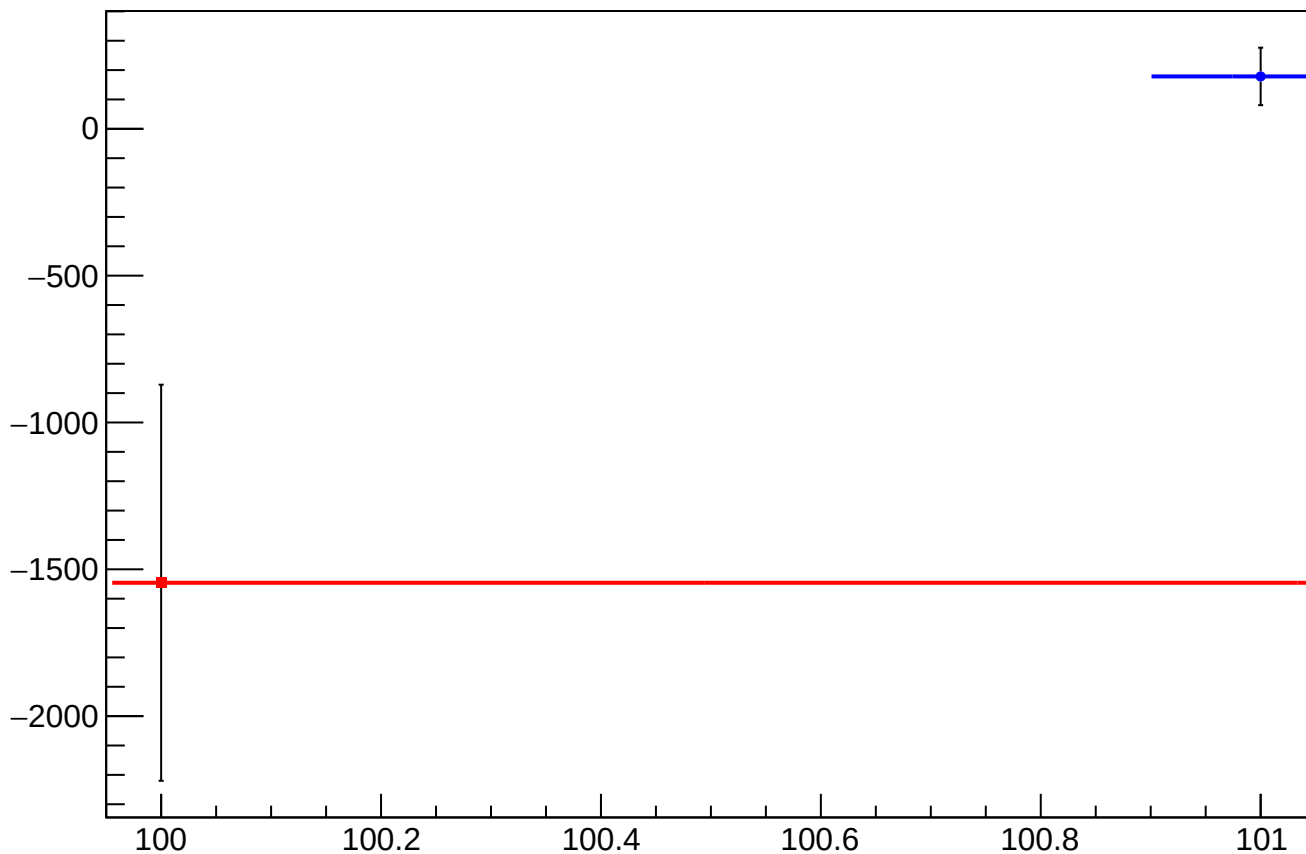
Right: 233.874 $\pm$ 0.195  $\chi^2$ /NDF: 4234.5/1

In: 230.404 $\pm$ 0.202  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 233.874 $\pm$ 0.195  $\chi^2$ /NDF: 4234.5/1

dit\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 178.440 $\pm$ 97.907  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1545.765 $\pm$ 674.415  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

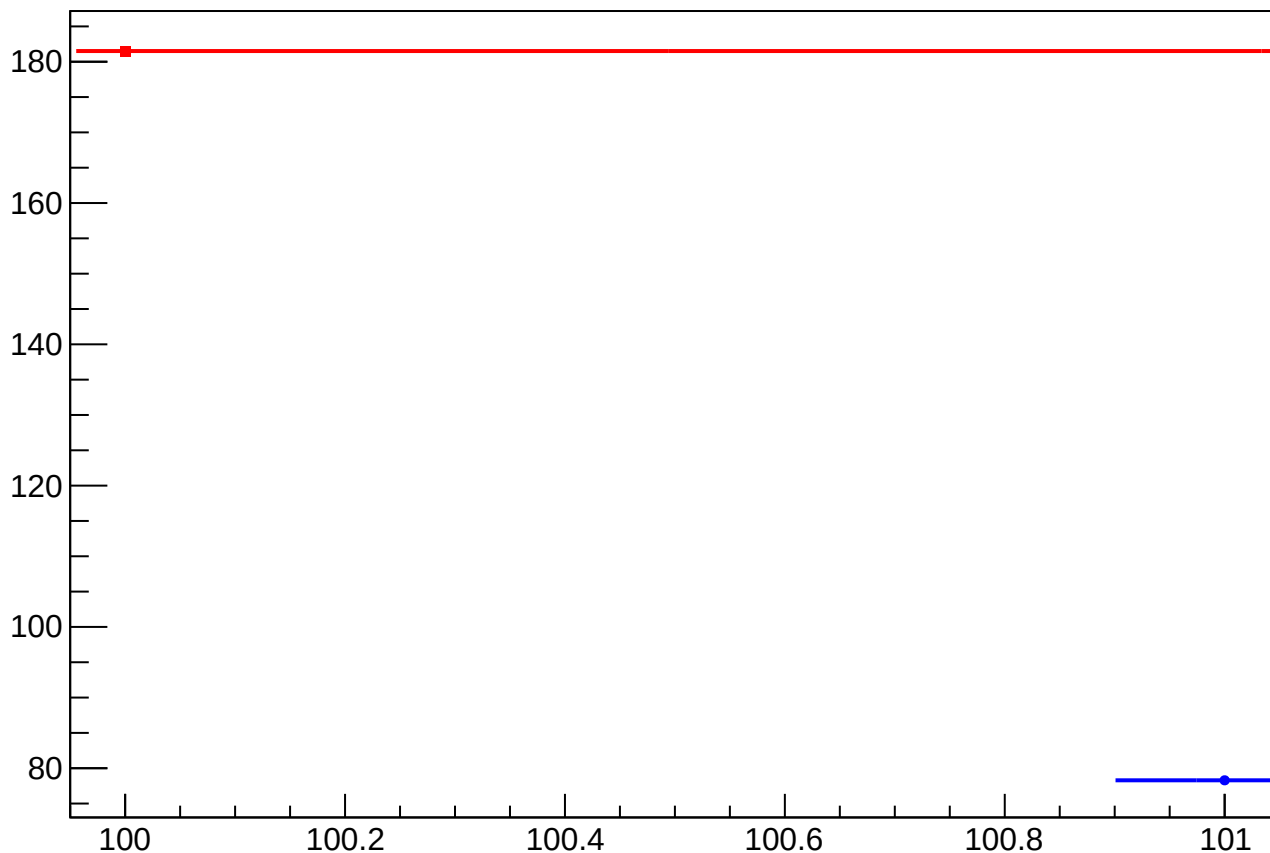
Right: 142.852 $\pm$ 96.891  $\chi^2$ /NDF: 6.4/1

In: 178.440 $\pm$ 97.907  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 142.852 $\pm$ 96.891  $\chi^2$ /NDF: 6.4/1

dit\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 78.288 $\pm$ 0.069  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 181.514 $\pm$ 0.477  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 80.419 $\pm$ 0.069  $\chi^2$ /NDF: 45886.9/1

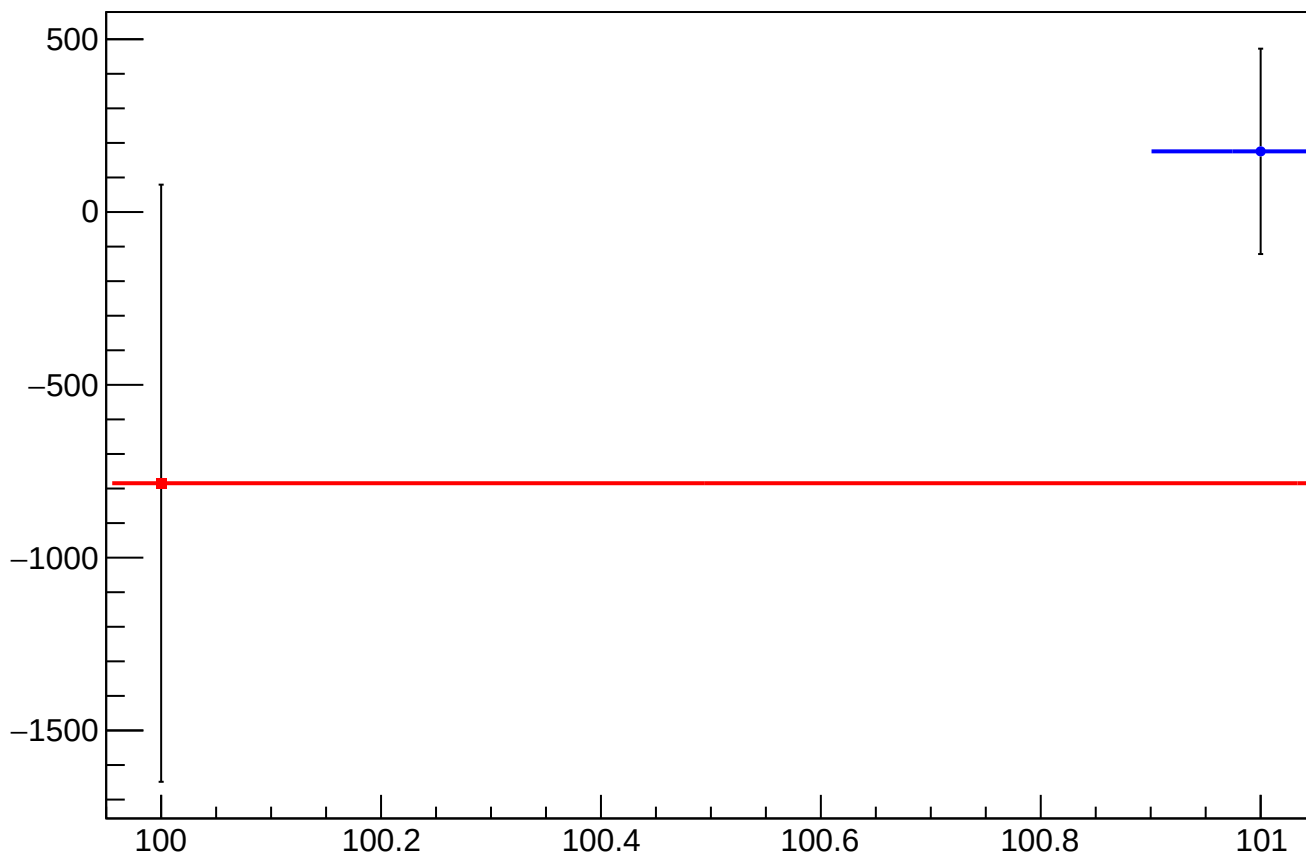
In: 78.288 $\pm$ 0.069  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 80.419 $\pm$ 0.069  $\chi^2$ /NDF: 45886.9/1



asym\_sam\_37\_48\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 175.586 $\pm$ 297.106  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -784.646 $\pm$ 863.896  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

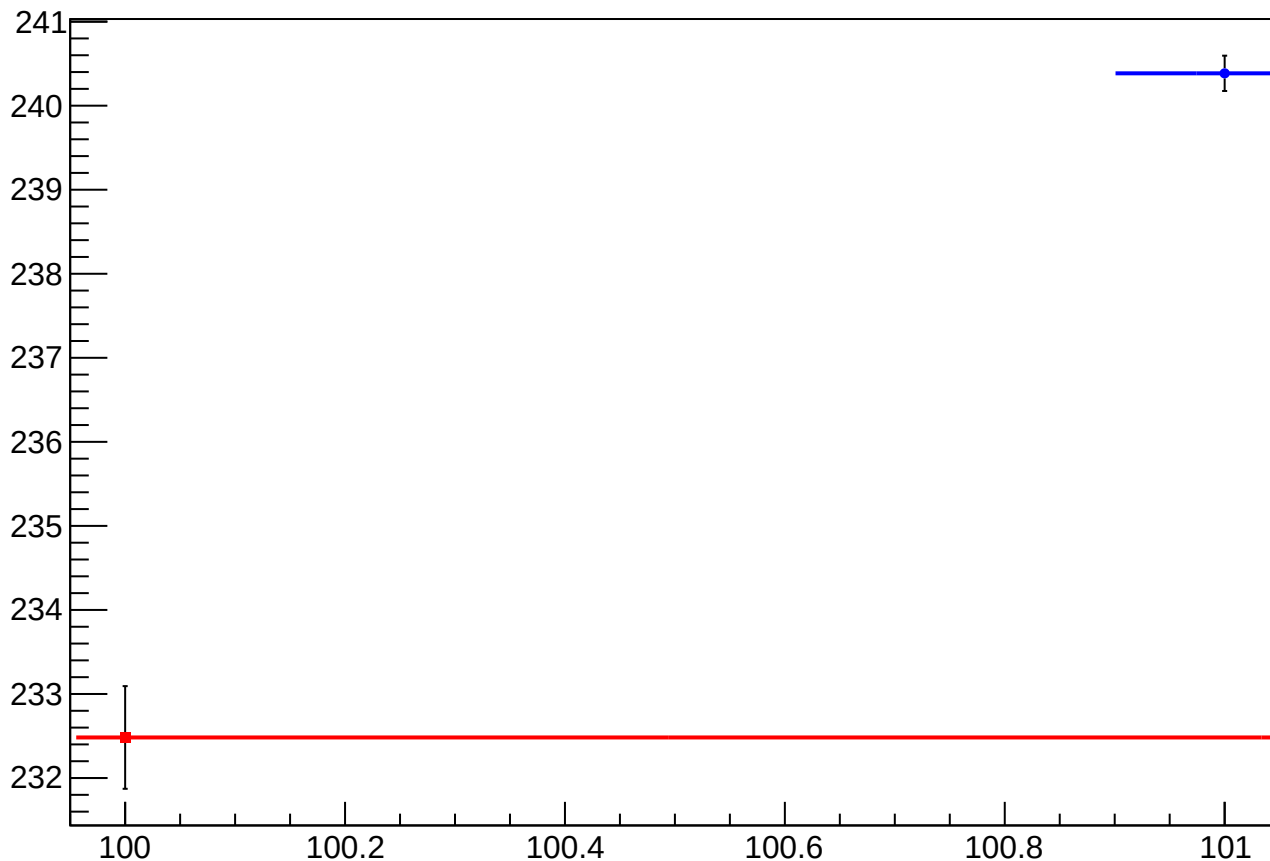
Right: 74.025 $\pm$ 280.955  $\chi^2$ /NDF: 1.1/1

In: 175.586 $\pm$ 297.106  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 74.025 $\pm$ 280.955  $\chi^2$ /NDF: 1.1/1

asym\_sam\_37\_48\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 240.385 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 232.483 $\pm$ 0.611  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

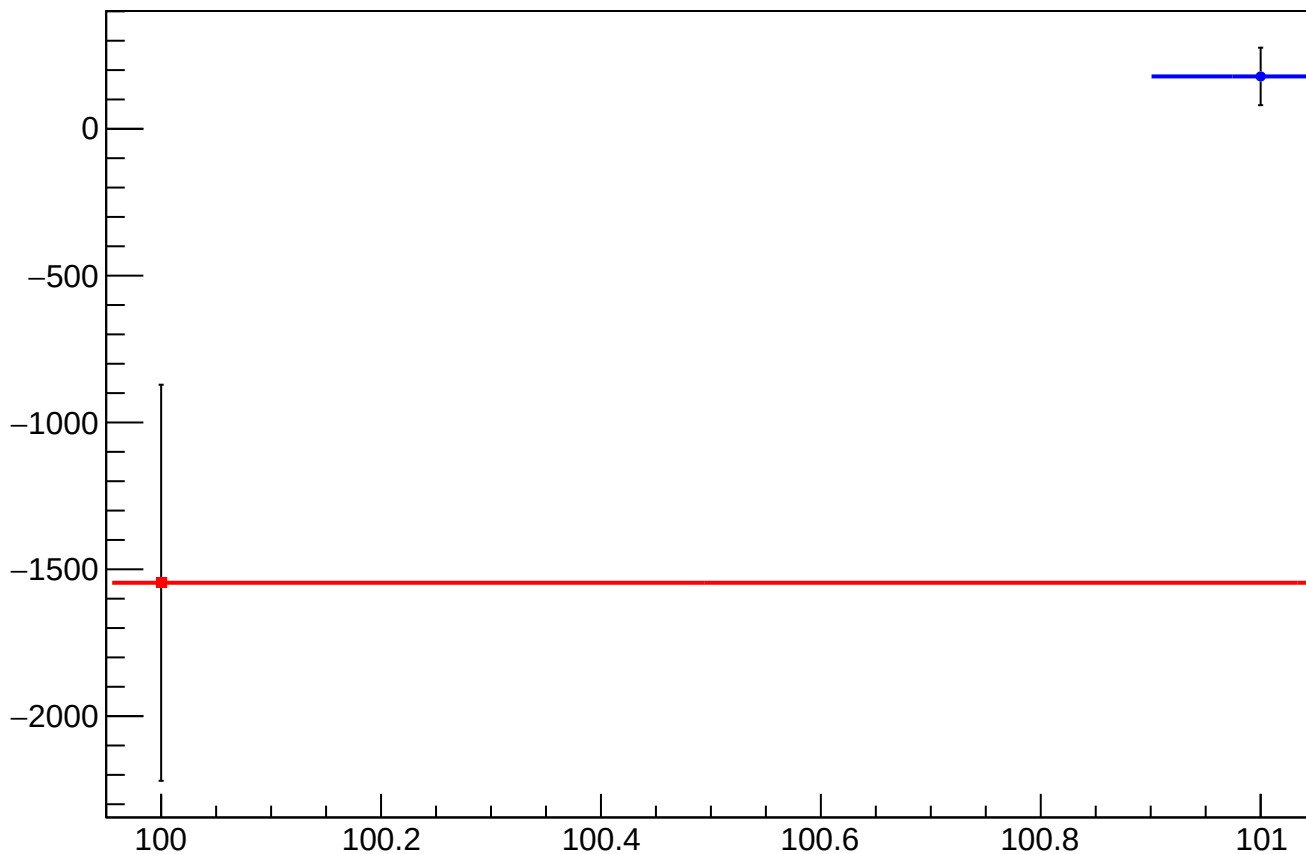
Right: 239.549 $\pm$ 0.199  $\chi^2$ /NDF: 149.6/1

In: 240.385 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 239.549 $\pm$ 0.199  $\chi^2$ /NDF: 149.6/1

eigen\_dit\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 178.445 $\pm$ 97.908  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1545.779 $\pm$ 674.421  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

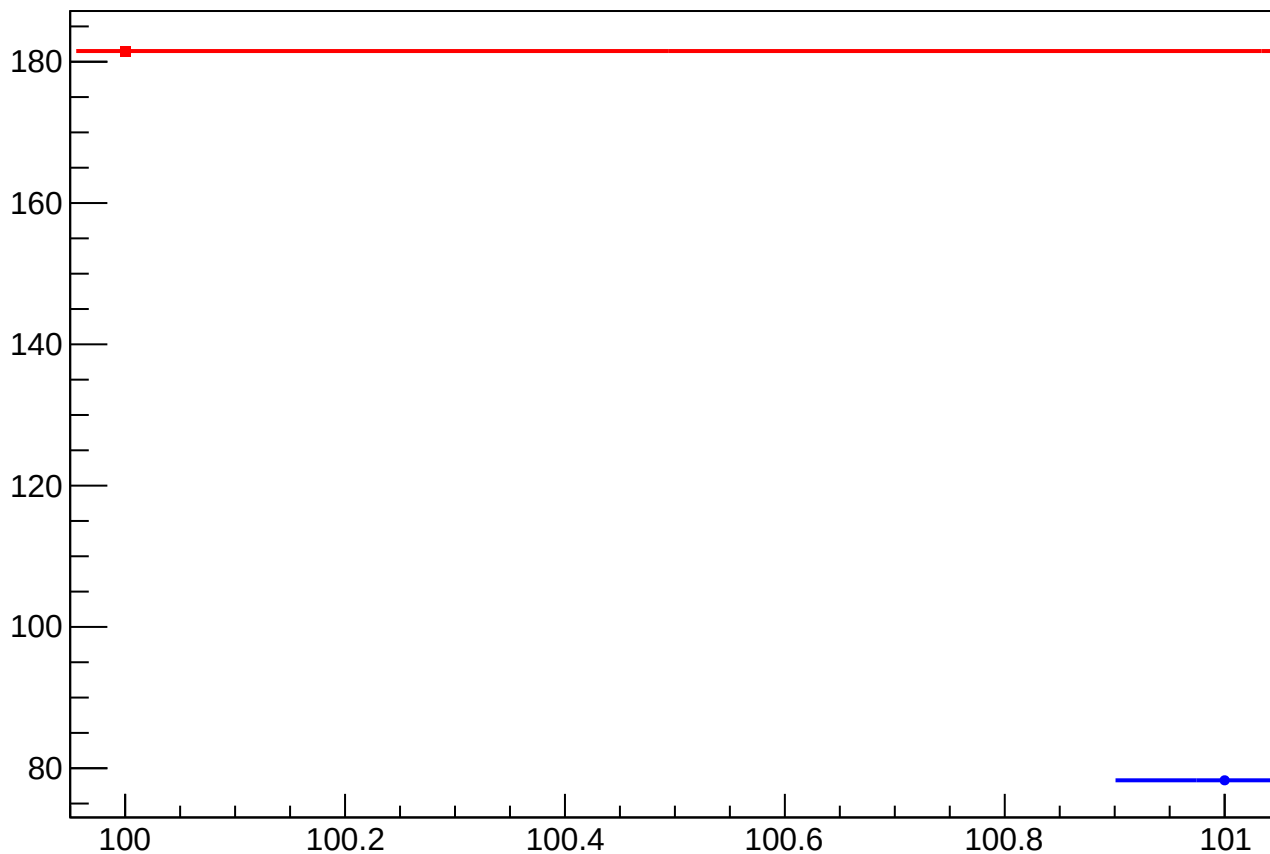
Right: 142.856 $\pm$ 96.892  $\chi^2$ /NDF: 6.4/1

In: 178.445 $\pm$ 97.908  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 142.856 $\pm$ 96.892  $\chi^2$ /NDF: 6.4/1

eigen\_dit\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 78.289+/-0.069  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 181.515+/-0.477  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

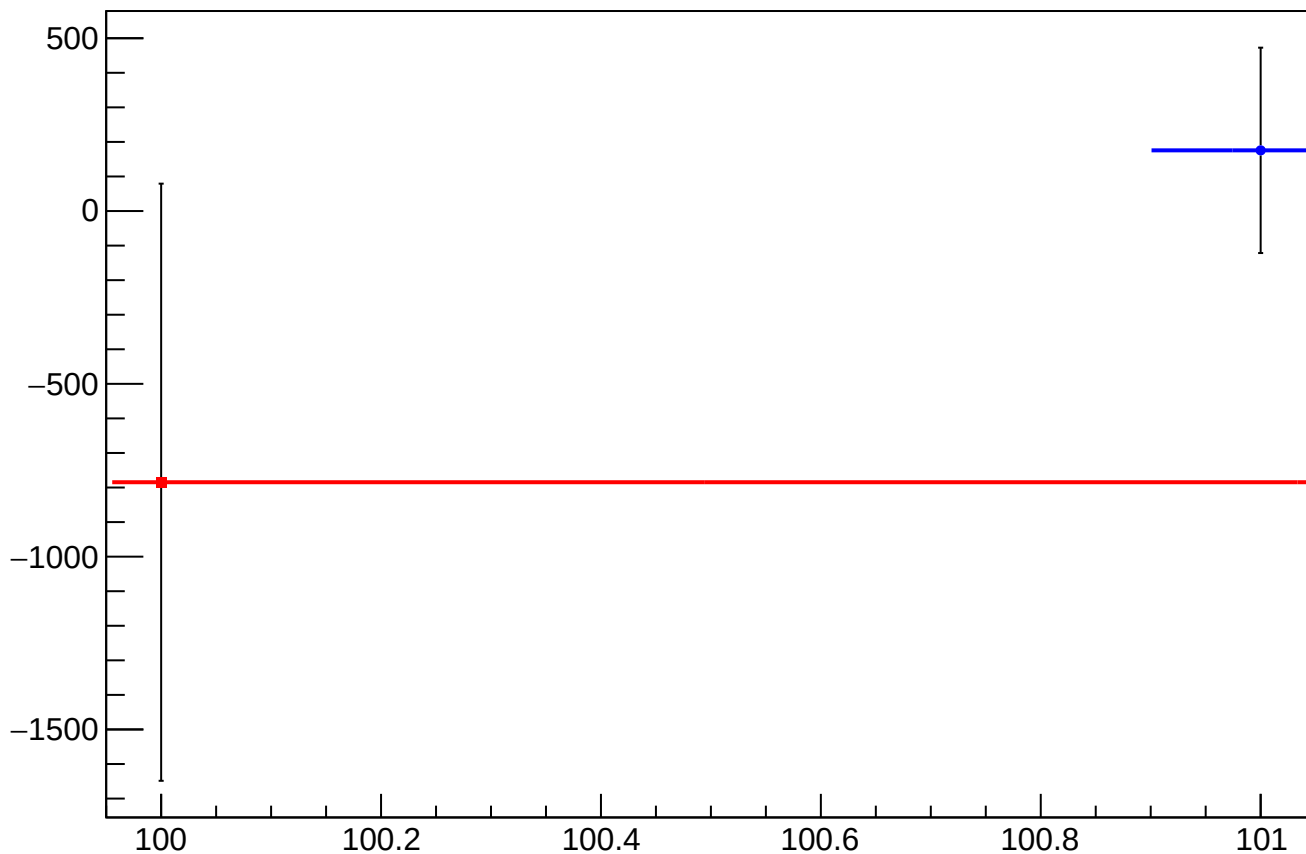
Right: 80.420+/-0.069  $\chi^2/\text{NDF}$ : 45887.0/1

In: 78.289+/-0.069  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.420+/-0.069  $\chi^2/\text{NDF}$ : 45887.0/1

asym\_sam\_37\_48\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 175.588 $\pm$ 297.107  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -784.659 $\pm$ 863.900  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

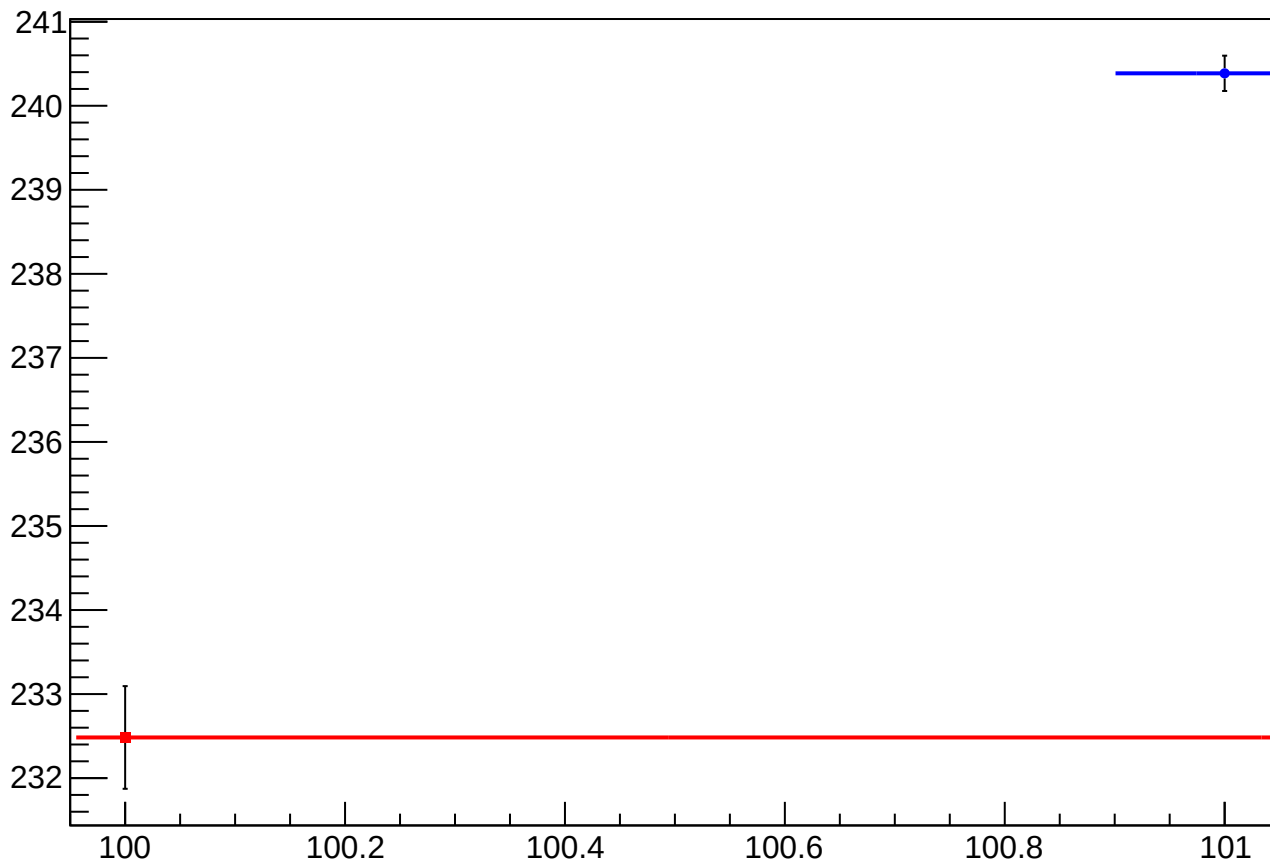
Right: 74.026 $\pm$ 280.956  $\chi^2$ /NDF: 1.1/1

In: 175.588 $\pm$ 297.107  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 74.026 $\pm$ 280.956  $\chi^2$ /NDF: 1.1/1

asym\_sam\_37\_48\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 240.386 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 232.484 $\pm$ 0.611  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

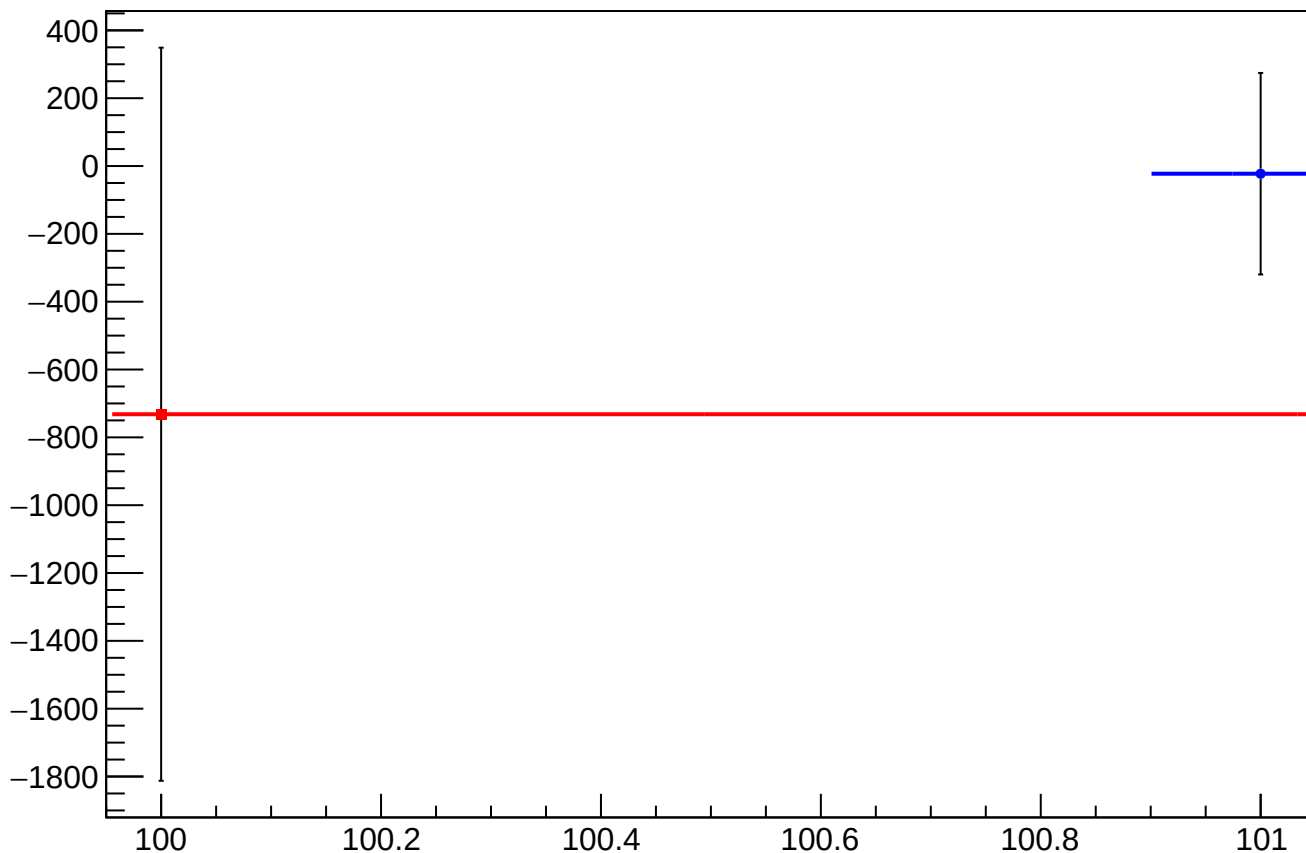
Right: 239.550 $\pm$ 0.199  $\chi^2$ /NDF: 149.6/1

In: 240.386 $\pm$ 0.210  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 239.550 $\pm$ 0.199  $\chi^2$ /NDF: 149.6/1

asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: -22.668+/-297.097  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -731.829+/-1080.795  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

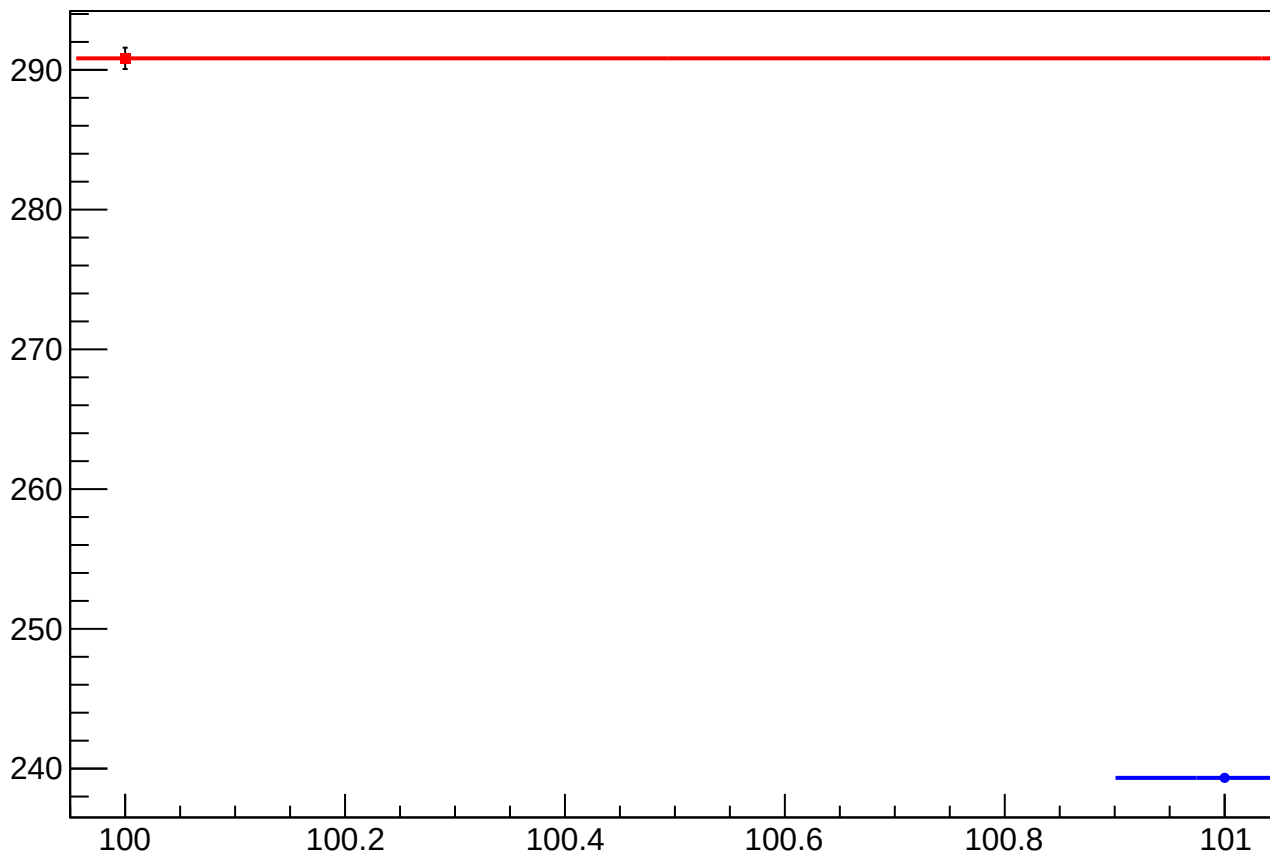
Right: -72.490+/-286.471  $\chi^2/\text{NDF}$ : 0.4/1

In: -22.668+/-297.097  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -72.490+/-286.471  $\chi^2/\text{NDF}$ : 0.4/1

# asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 239.337 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 290.825 $\pm$ 0.764  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 242.954 $\pm$ 0.203  $\chi^2$ /NDF: 4220.1/1

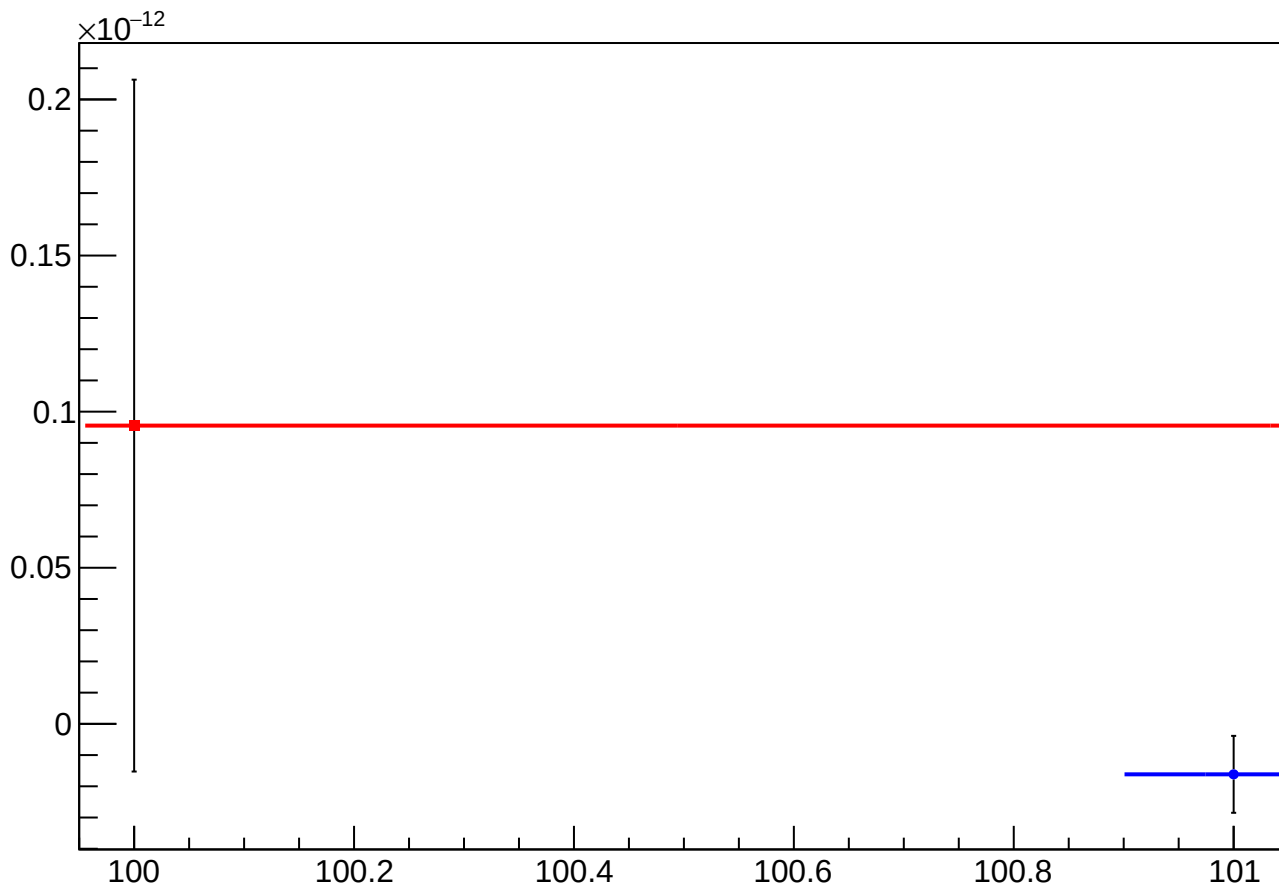
In: 239.337 $\pm$ 0.210  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.954 $\pm$ 0.203  $\chi^2$ /NDF: 4220.1/1



asym\_sam\_37\_48\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

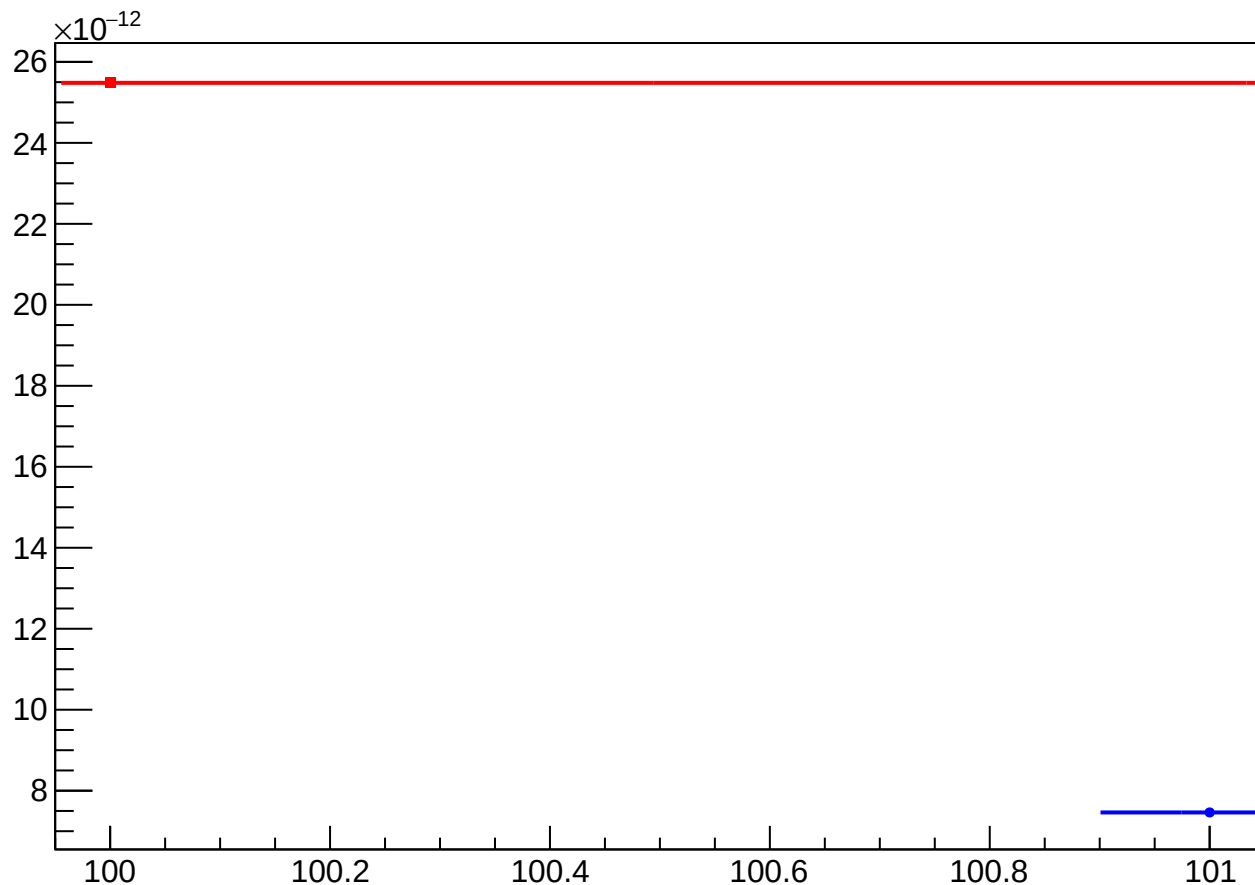
Right: -0.000+/-0.000  $\chi^2$ /NDF: 1.0/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 1.0/1

asym\_sam\_37\_48\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

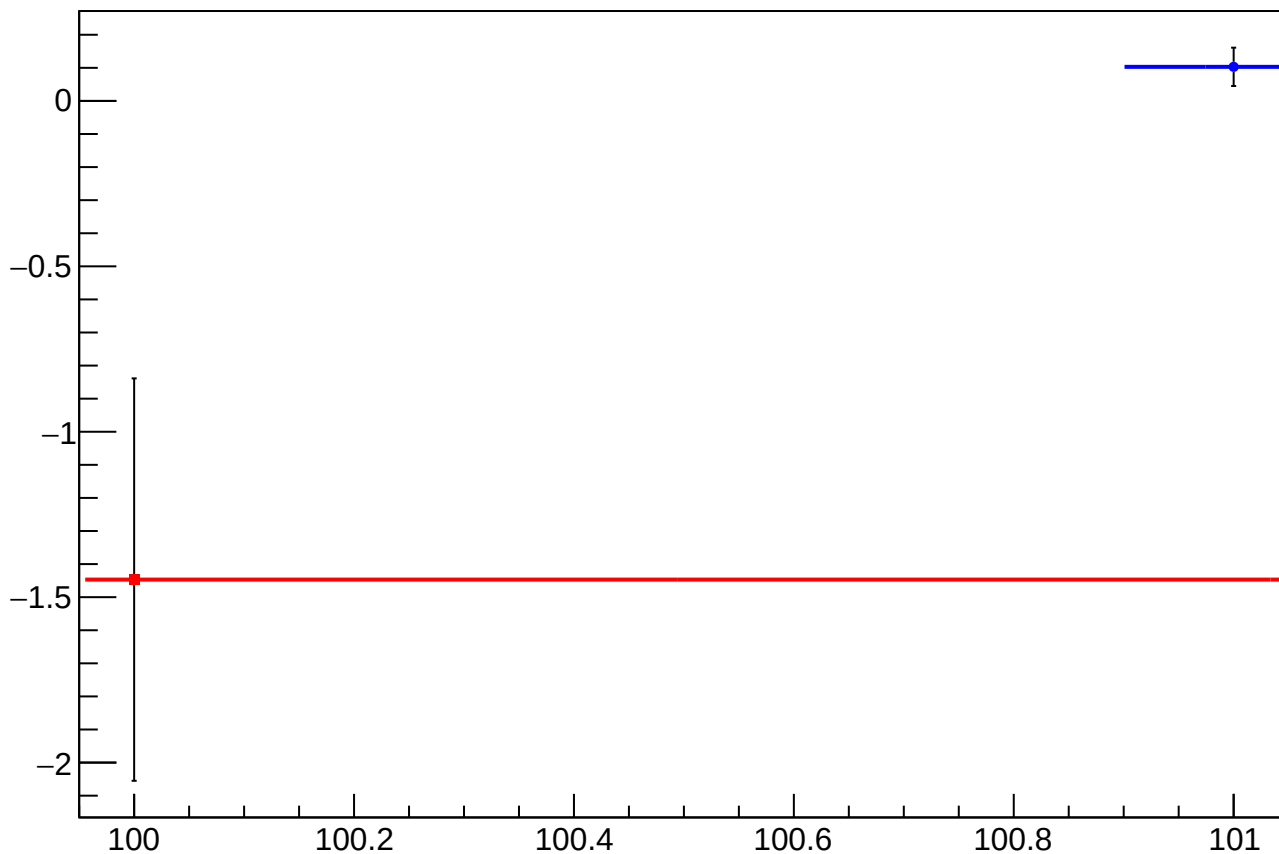
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 52249.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 52249.0/1

asym\_sam\_37\_48\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.103+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.447+/-0.608  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

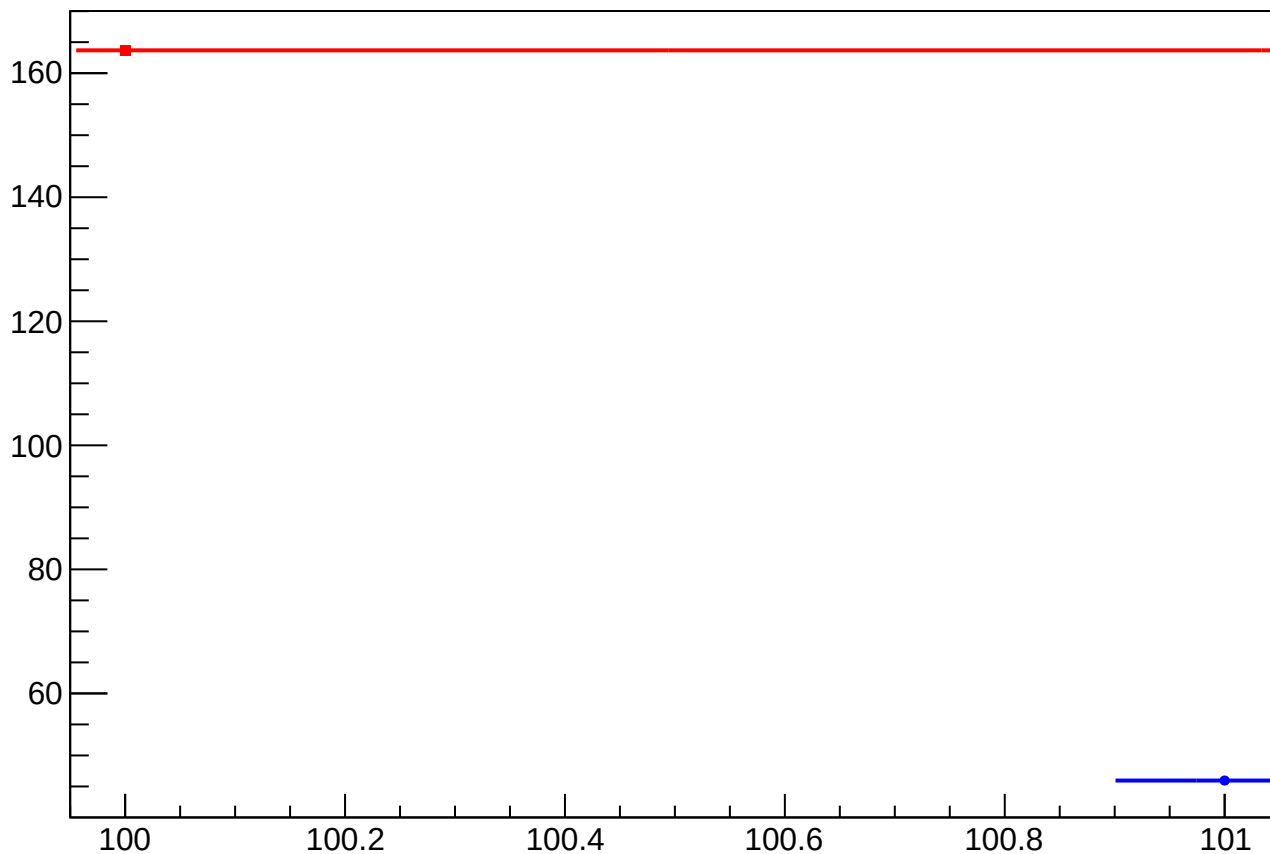
Right: 0.089+/-0.058  $\chi^2/\text{NDF}$ : 6.4/1

In: 0.103+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.089+/-0.058  $\chi^2/\text{NDF}$ : 6.4/1

asym\_sam\_37\_48\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 45.954 $\pm$ 0.041  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 163.682 $\pm$ 0.430  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

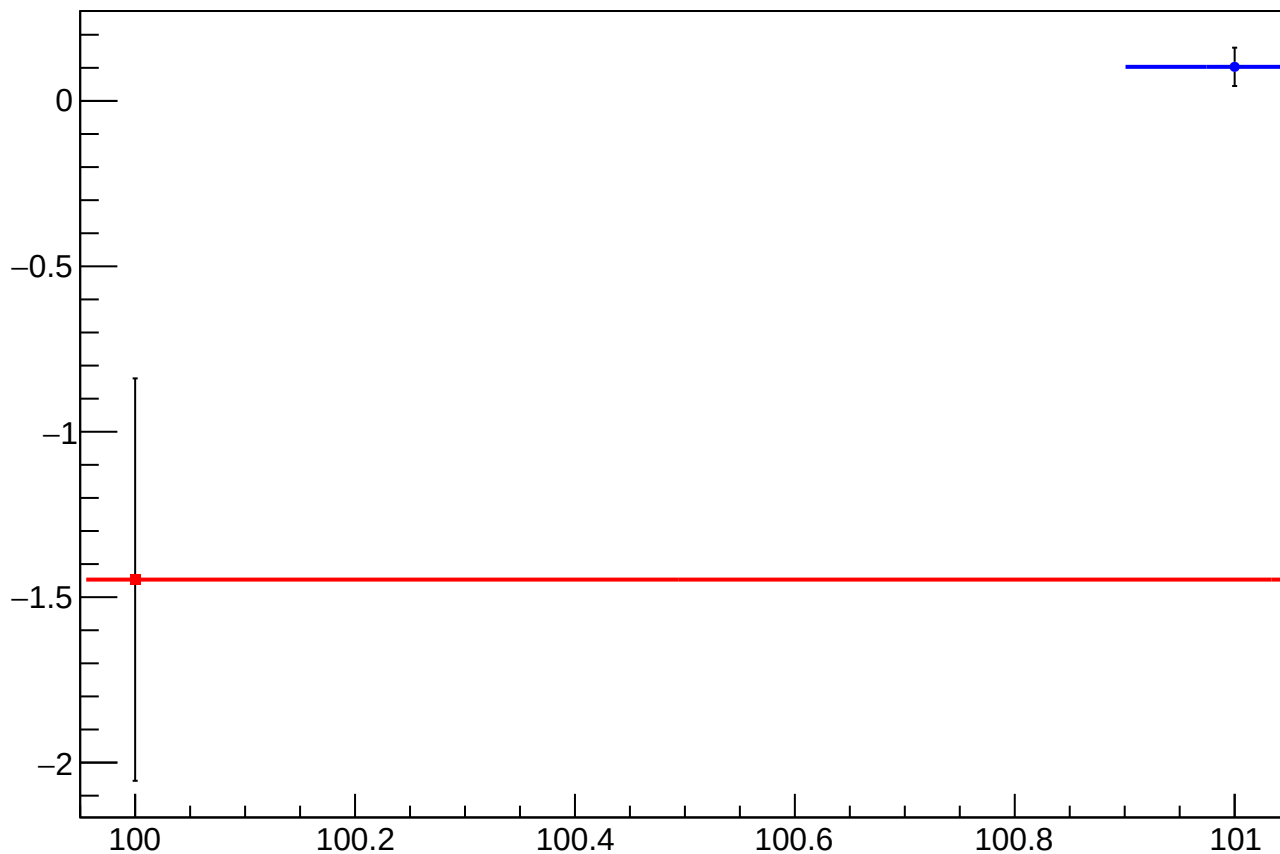
Right: 47.013 $\pm$ 0.041  $\chi^2$ /NDF: 74265.8/1

In: 45.954 $\pm$ 0.041  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 47.013 $\pm$ 0.041  $\chi^2$ /NDF: 74265.8/1

asym\_sam\_37\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.103+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.447+/-0.608  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

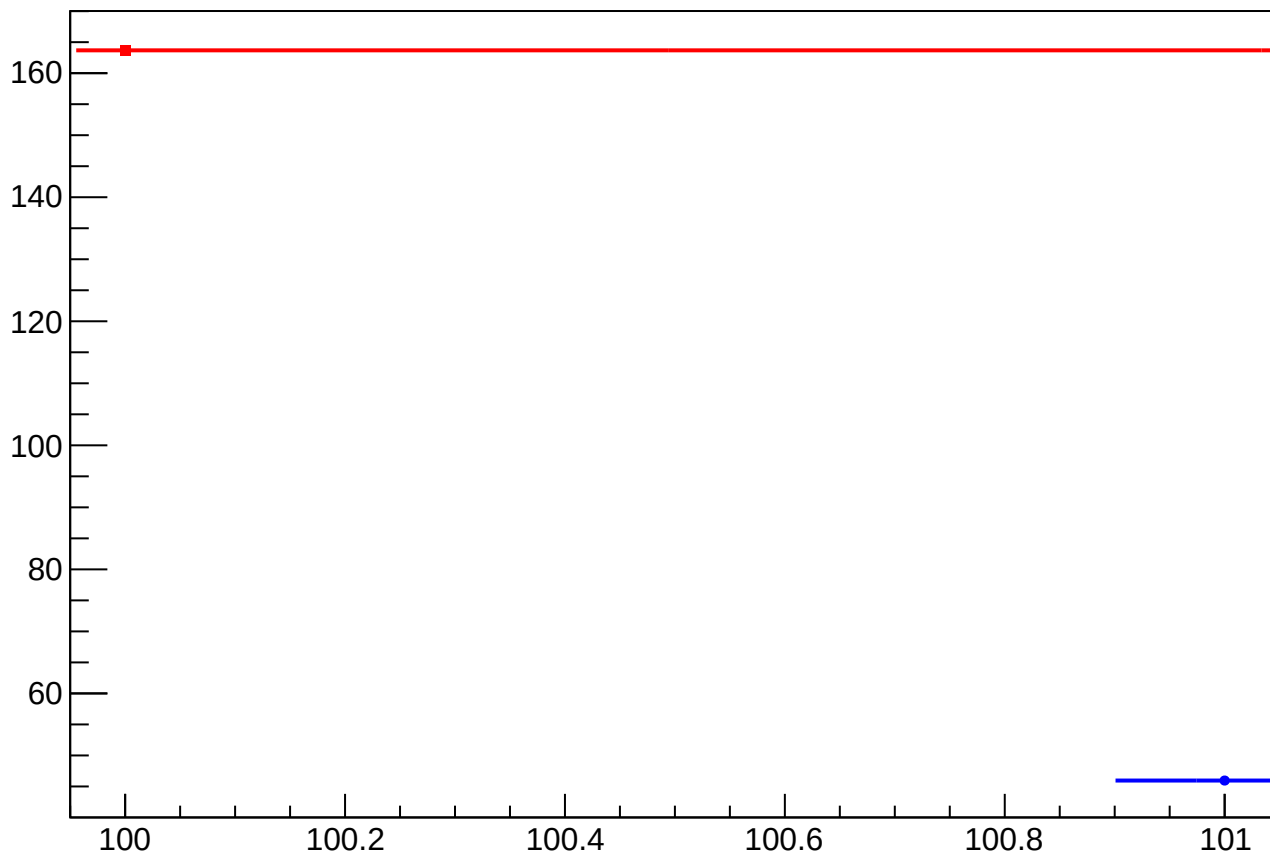
Right: 0.089+/-0.058  $\chi^2/\text{NDF}$ : 6.4/1

In: 0.103+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.089+/-0.058  $\chi^2/\text{NDF}$ : 6.4/1

asym\_sam\_37\_48\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 45.954 $\pm$ 0.041  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 163.682 $\pm$ 0.430  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

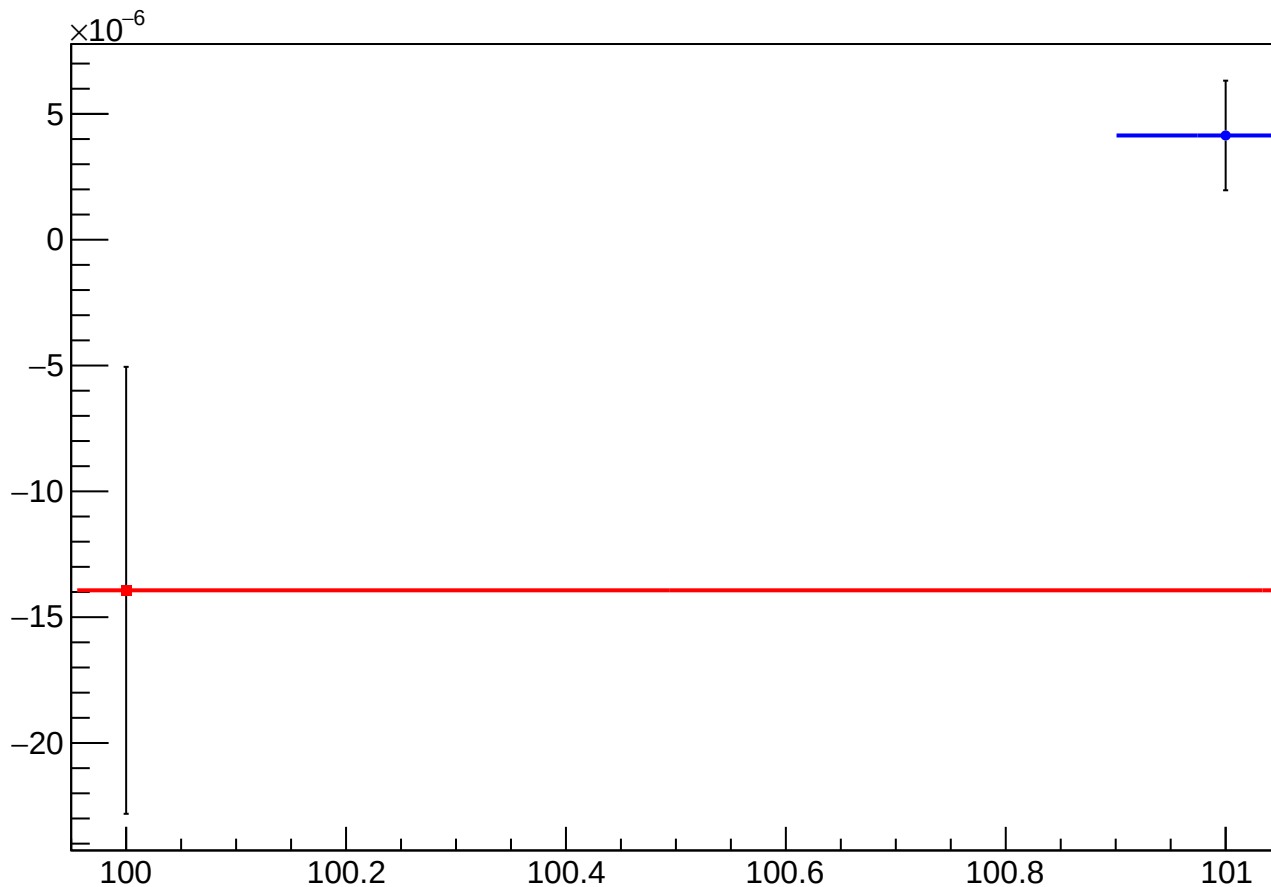
Right: 47.013 $\pm$ 0.041  $\chi^2$ /NDF: 74265.8/1

In: 45.954 $\pm$ 0.041  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 47.013 $\pm$ 0.041  $\chi^2$ /NDF: 74265.8/1

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

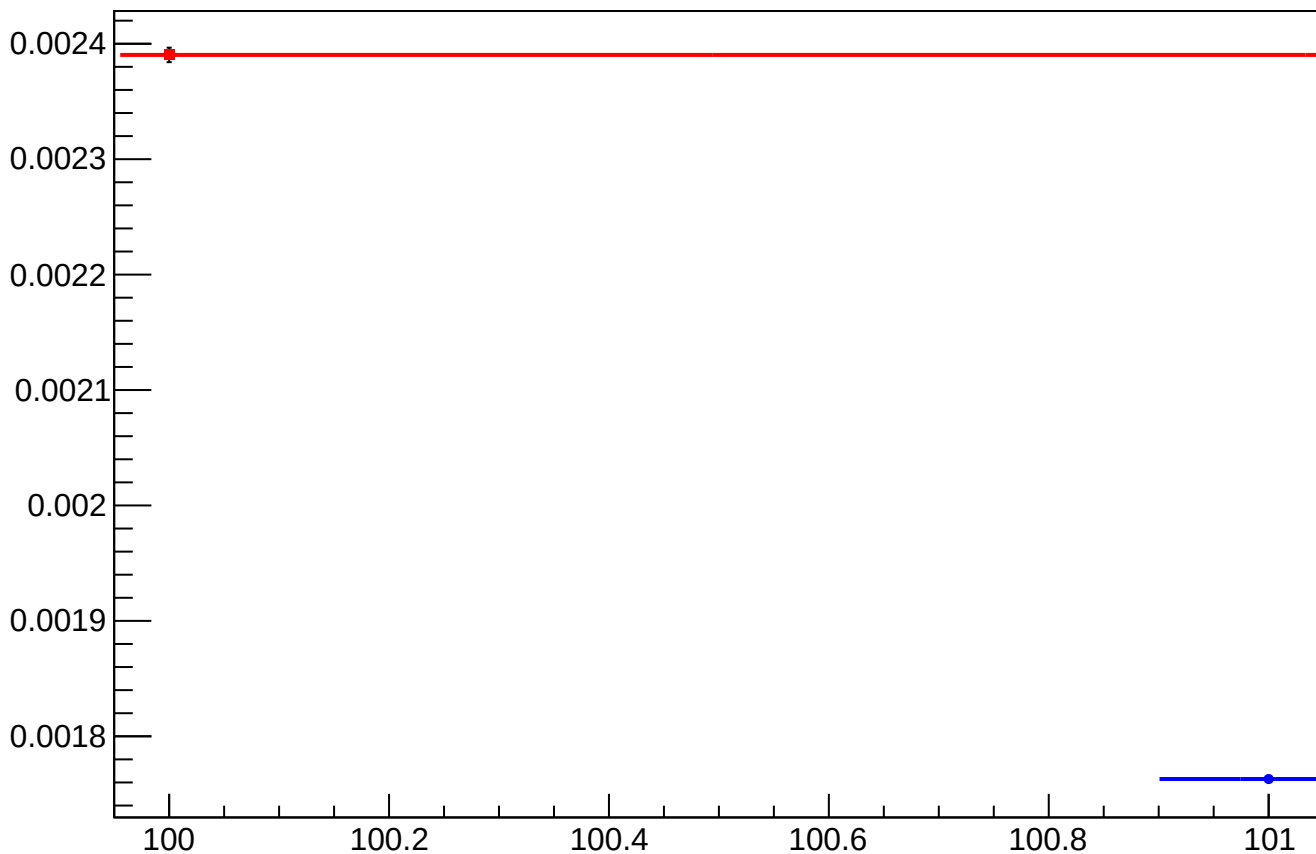
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 3.9/1

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected

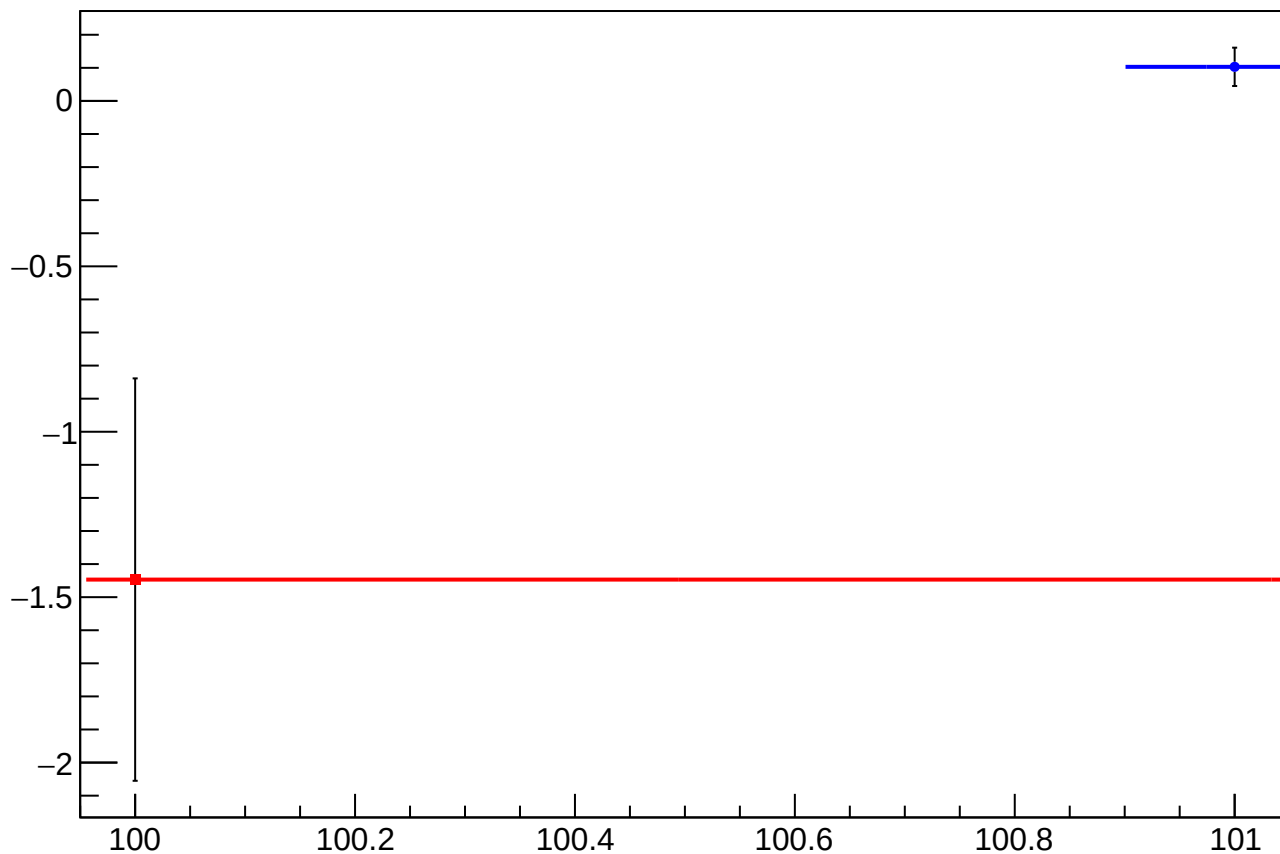


Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 9413.7/1  
 In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 9413.7/1



asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.103 $\pm$ 0.058  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.447 $\pm$ 0.608  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

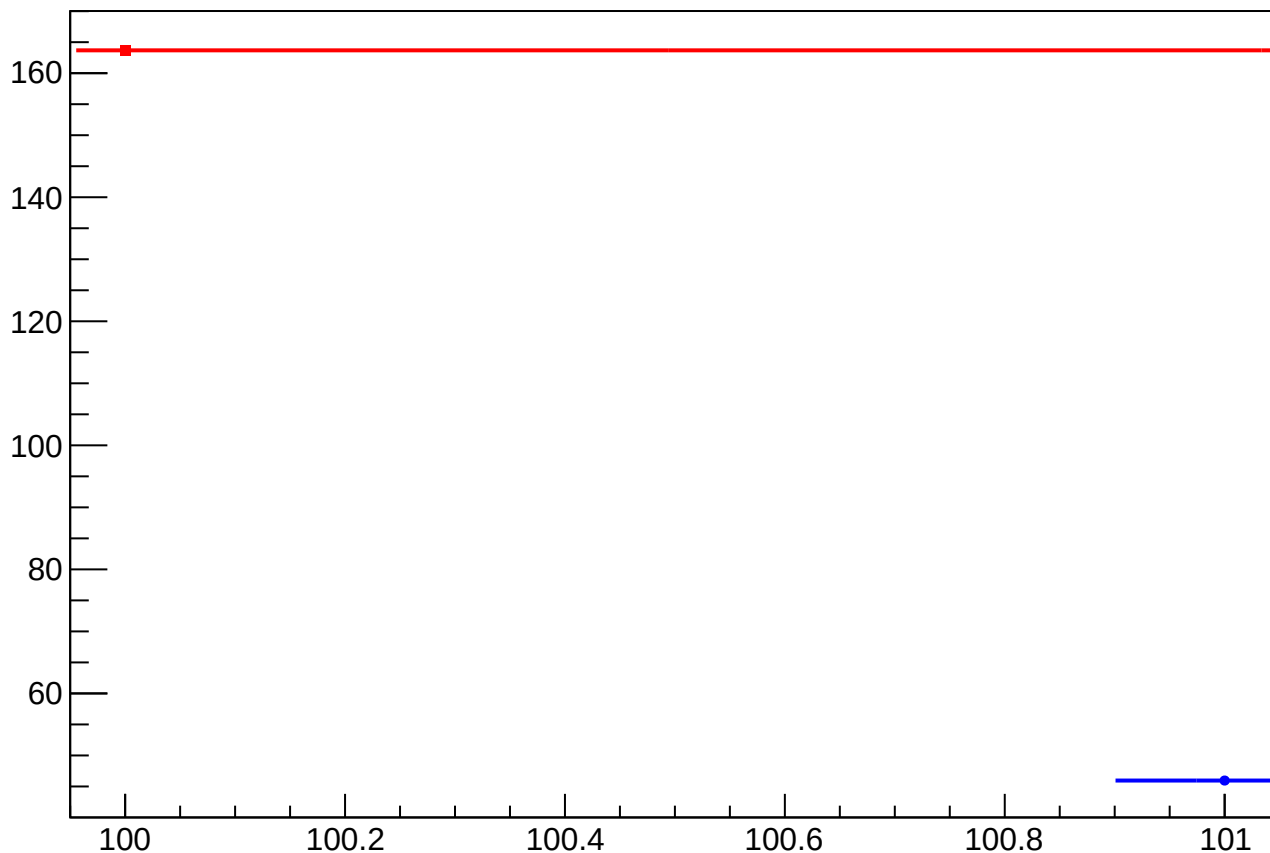
Right: 0.089 $\pm$ 0.058  $\chi^2$ /NDF: 6.4/1

In: 0.103 $\pm$ 0.058  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.089 $\pm$ 0.058  $\chi^2$ /NDF: 6.4/1

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 45.955+/-0.041  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 163.684+/-0.430  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

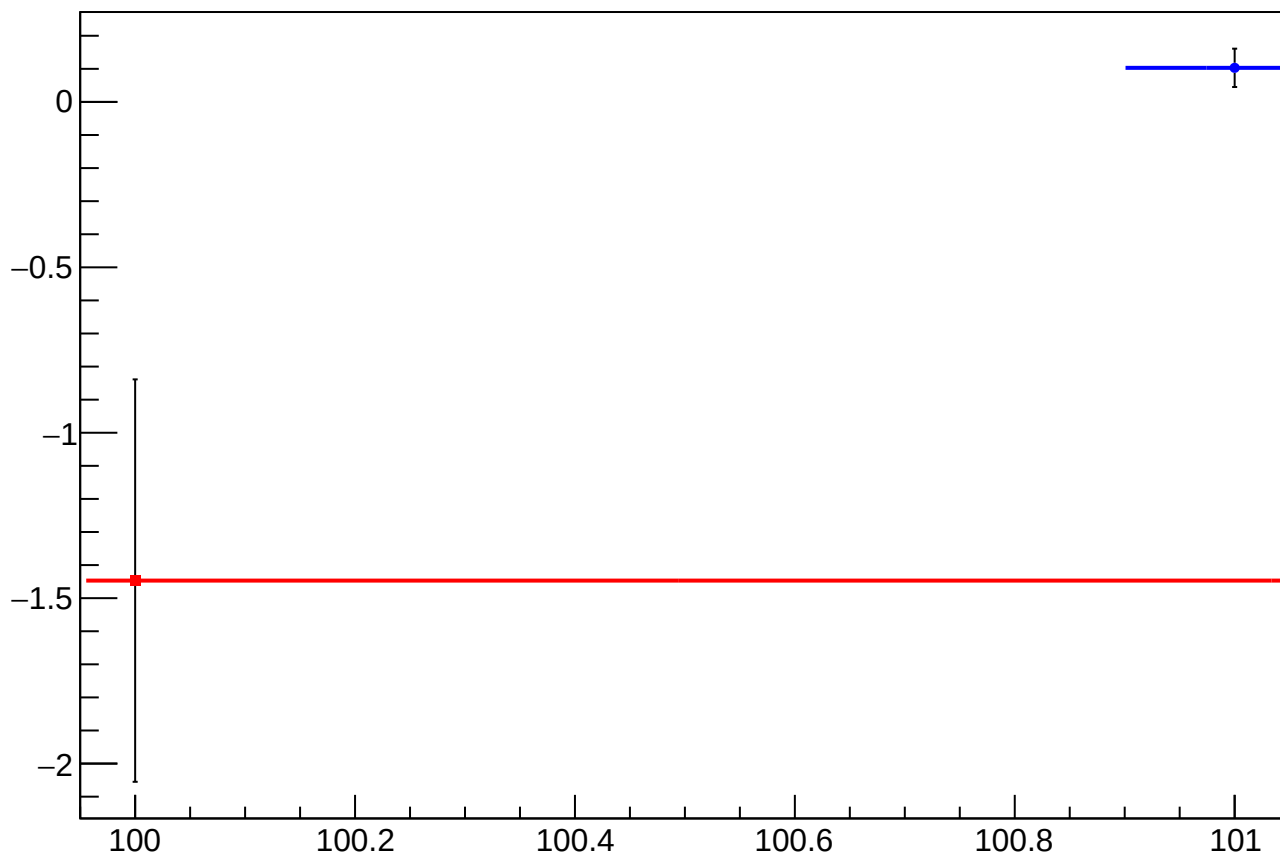
Right: 47.014+/-0.041  $\chi^2/\text{NDF}$ : 74265.1/1

In: 45.955+/-0.041  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 47.014+/-0.041  $\chi^2/\text{NDF}$ : 74265.1/1

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.103 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.447 $\pm$ 0.608  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

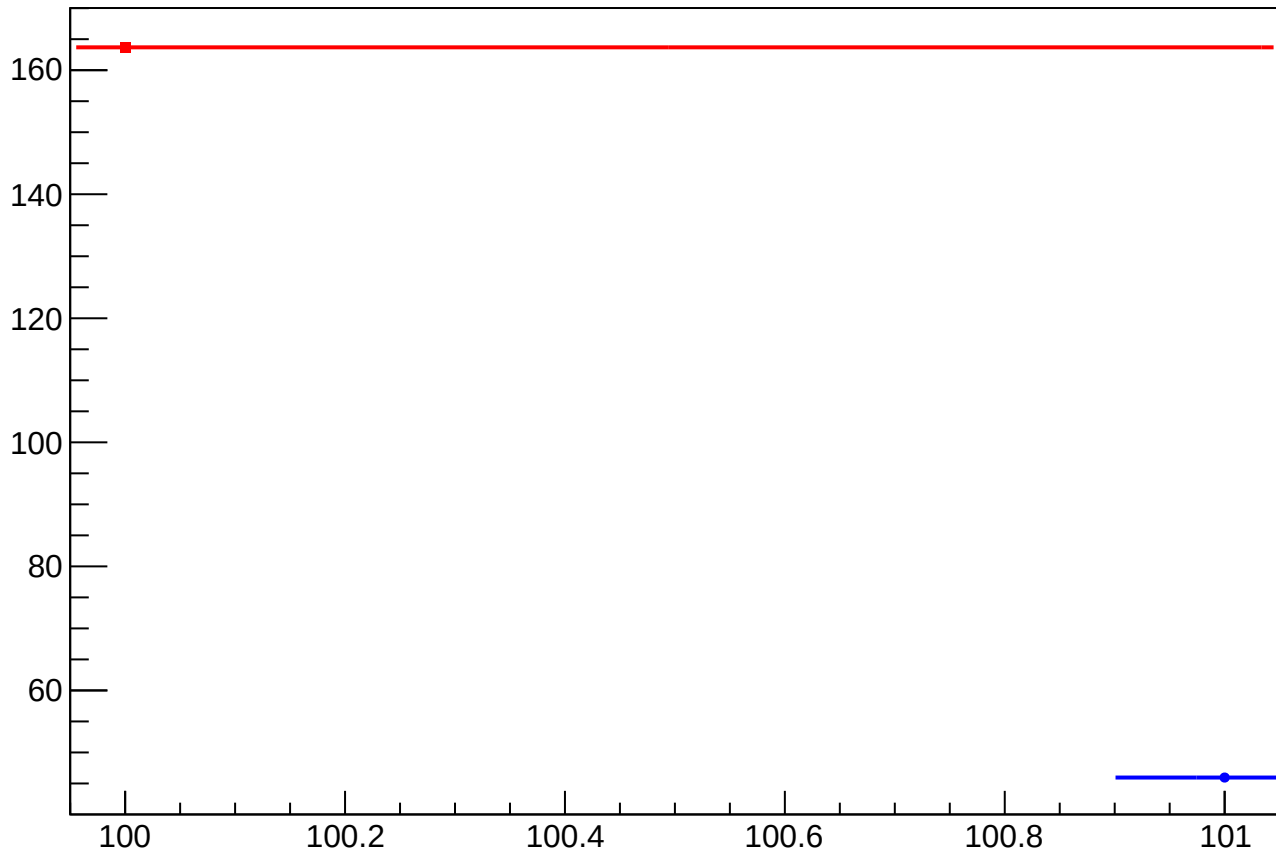
Right: 0.089 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 6.4/1

In: 0.103 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.089 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 6.4/1

asym\_sam\_37\_48\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 45.955 $\pm$ 0.041  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 163.684 $\pm$ 0.430  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

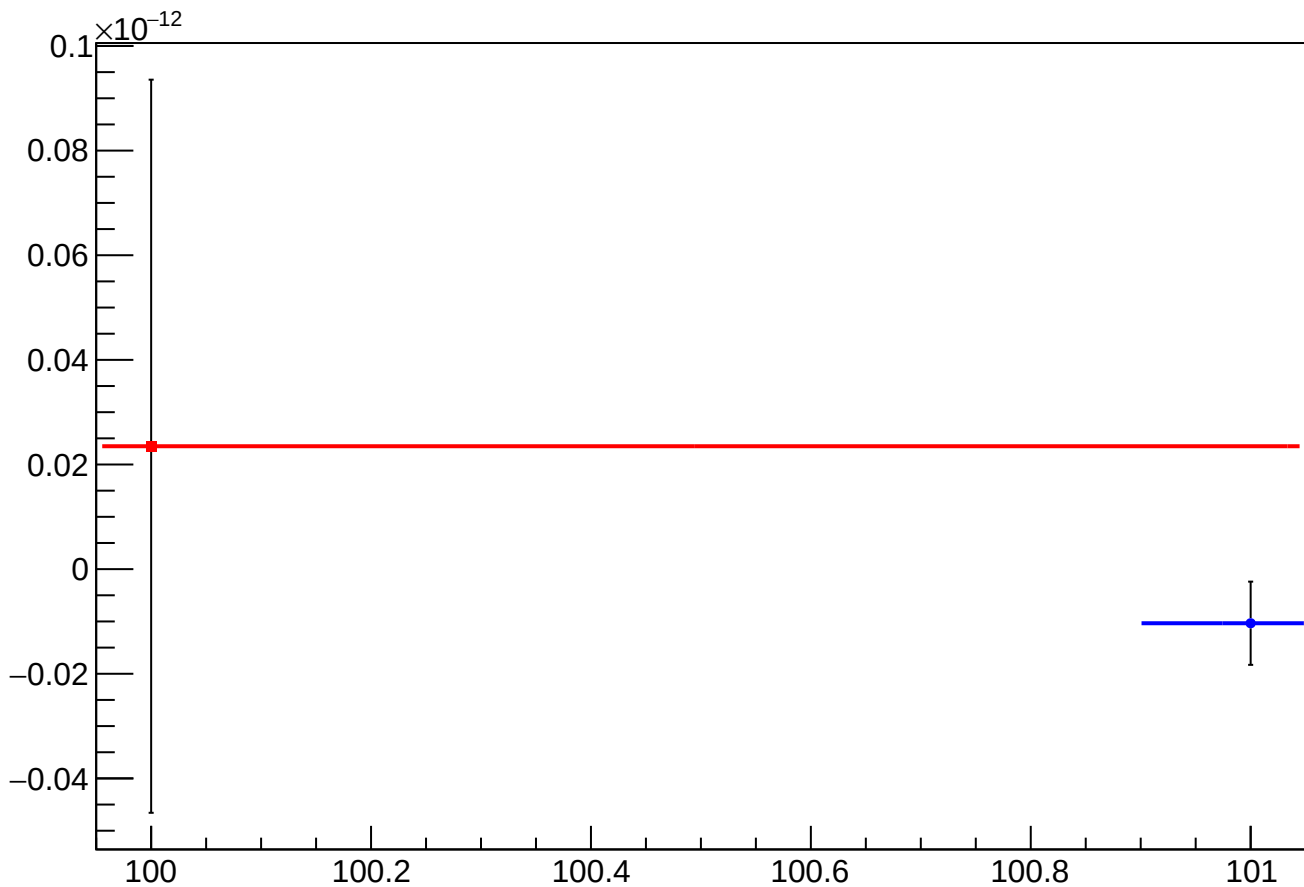
Right: 47.014 $\pm$ 0.041  $\chi^2$ /NDF: 74265.1/1

In: 45.955 $\pm$ 0.041  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 47.014 $\pm$ 0.041  $\chi^2$ /NDF: 74265.1/1

asym\_sam\_37\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

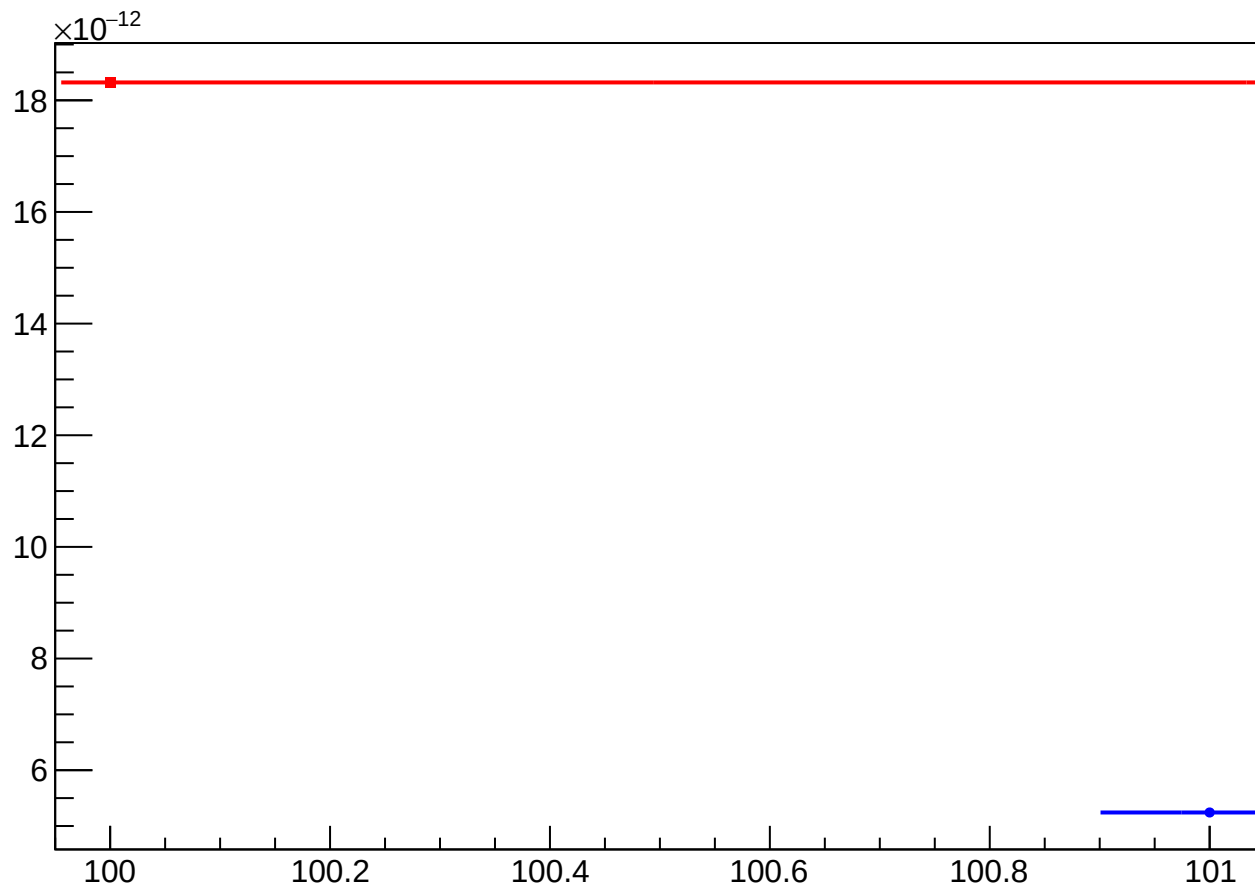
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.2/1

asym\_sam\_37\_48\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

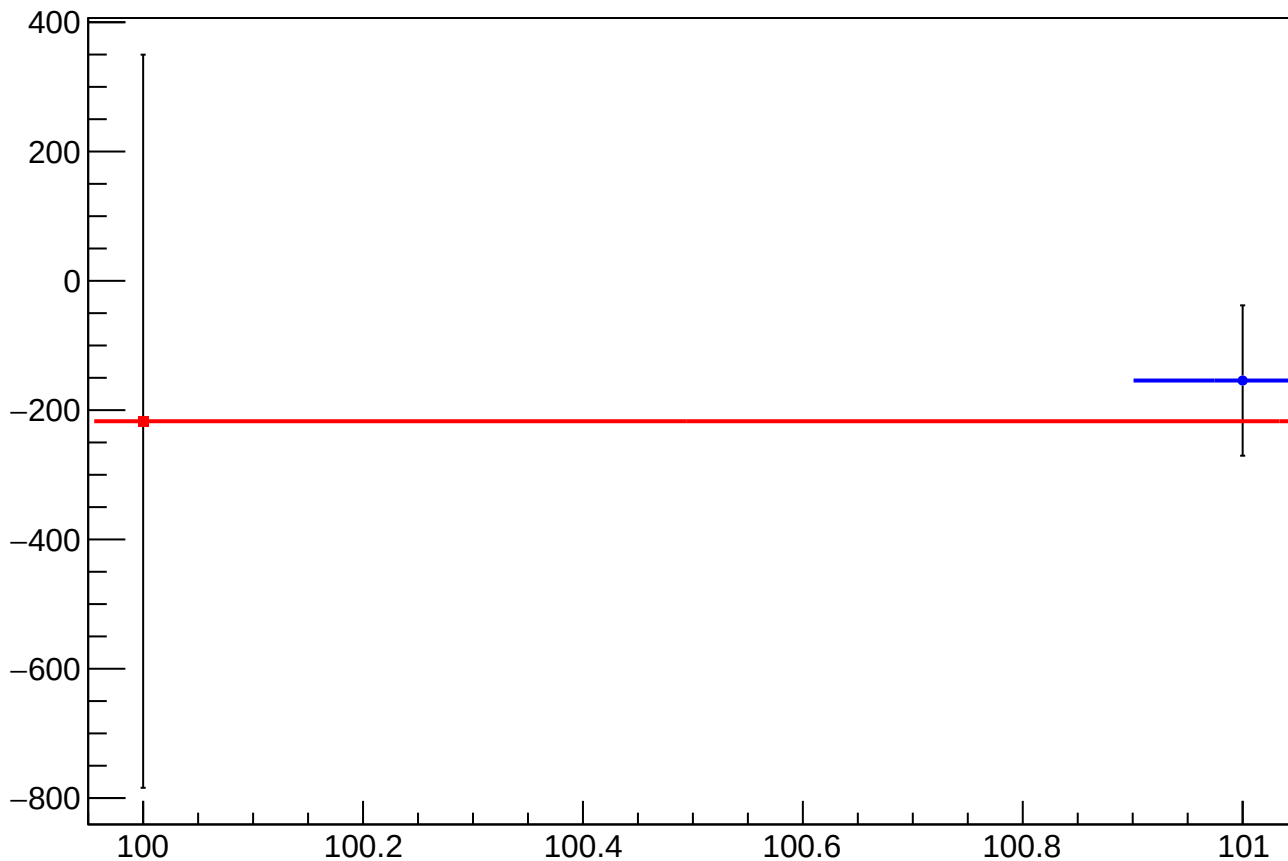
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 68788.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 68788.2/1

reg\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -154.199+/-116.267  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -217.161+/-566.973  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

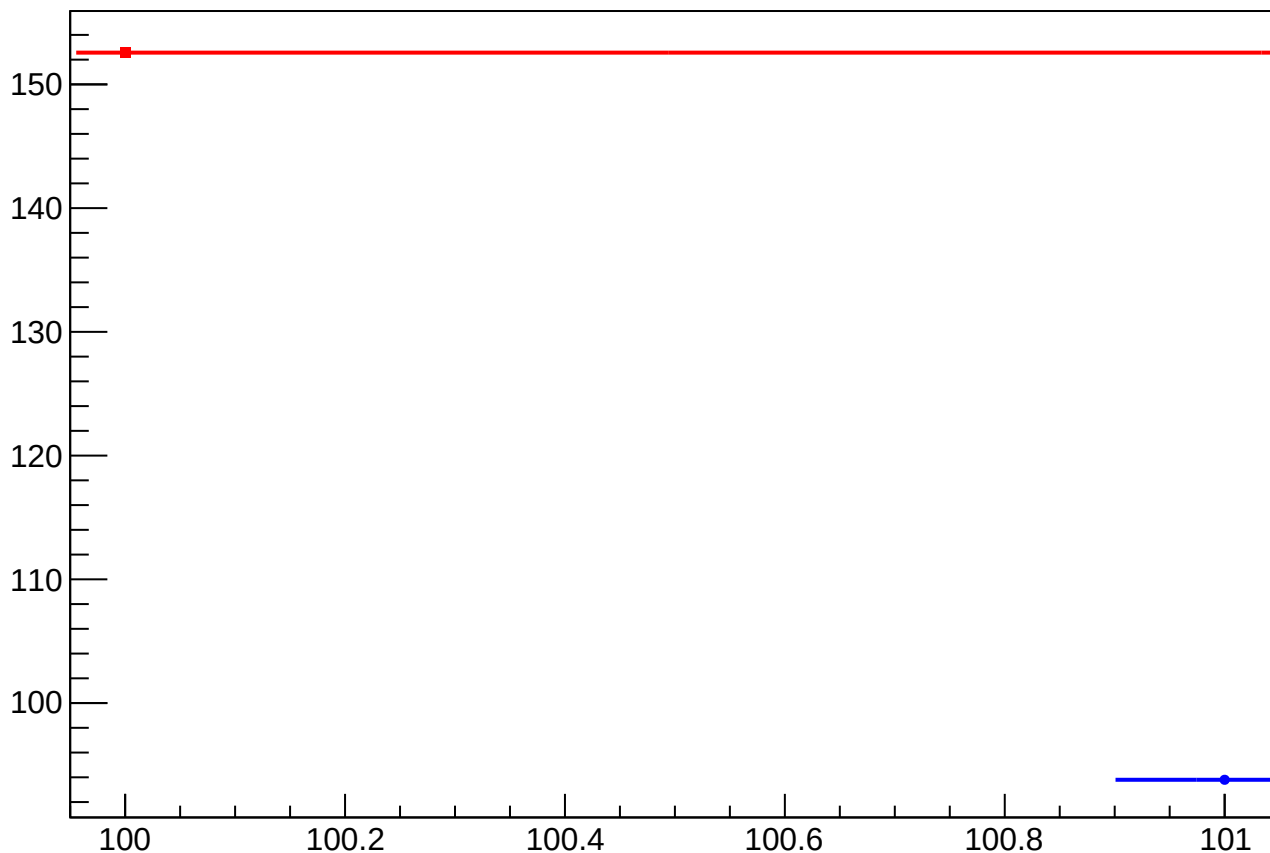
Right: -156.739+/-113.897  $\chi^2/\text{NDF}$ : 0.0/1

In: -154.199+/-116.267  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -156.739+/-113.897  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 93.800 $\pm$ 0.082  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.567 $\pm$ 0.401  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 96.172 $\pm$ 0.081  $\chi^2$ /NDF: 20619.4/1

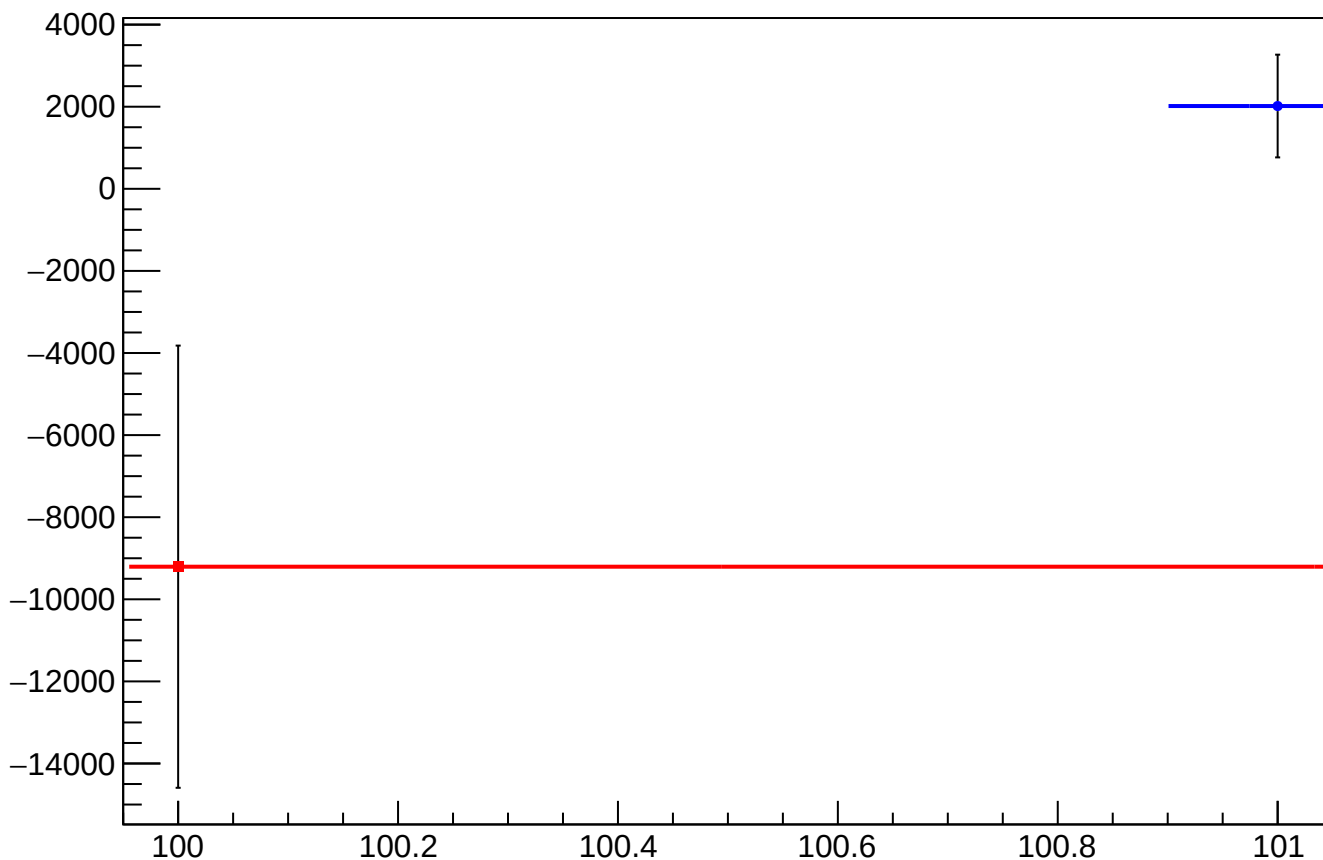
In: 93.800 $\pm$ 0.082  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 96.172 $\pm$ 0.081  $\chi^2$ /NDF: 20619.4/1



asym\_sam\_15\_26\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 2016.509+/-1251.286  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9205.766+/-5386.294  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

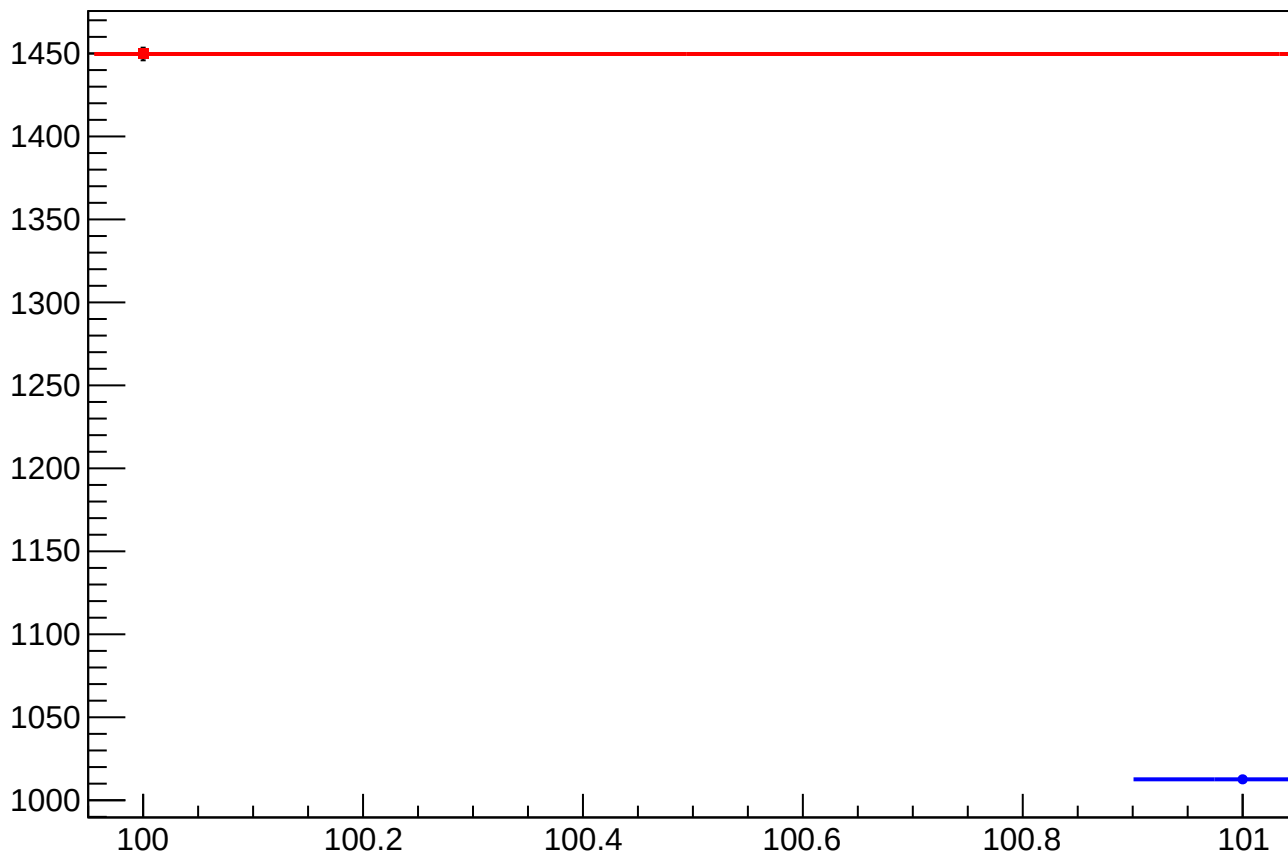
Right: 1441.881+/-1218.830  $\chi^2/\text{NDF}$ : 4.1/1

In: 2016.509+/-1251.286  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1441.881+/-1218.830  $\chi^2/\text{NDF}$ : 4.1/1

asym\_sam\_15\_26\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1012.606 $\pm$ 0.885  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1449.688 $\pm$ 3.809  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

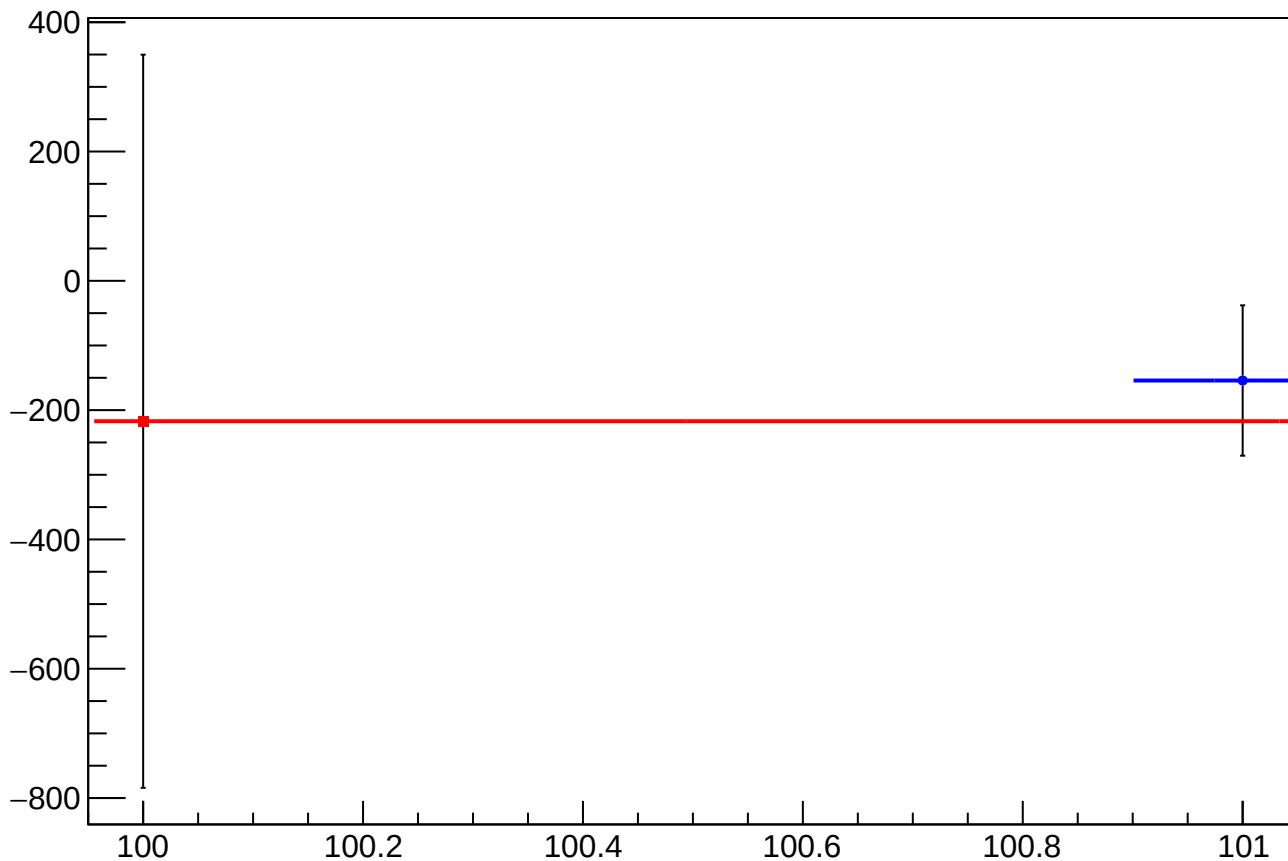
Right: 1034.987 $\pm$ 0.862  $\chi^2$ /NDF: 12495.4/1

In: 1012.606 $\pm$ 0.885  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1034.987 $\pm$ 0.862  $\chi^2$ /NDF: 12495.4/1

cor\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -154.194+/-116.267  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -217.176+/-566.973  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

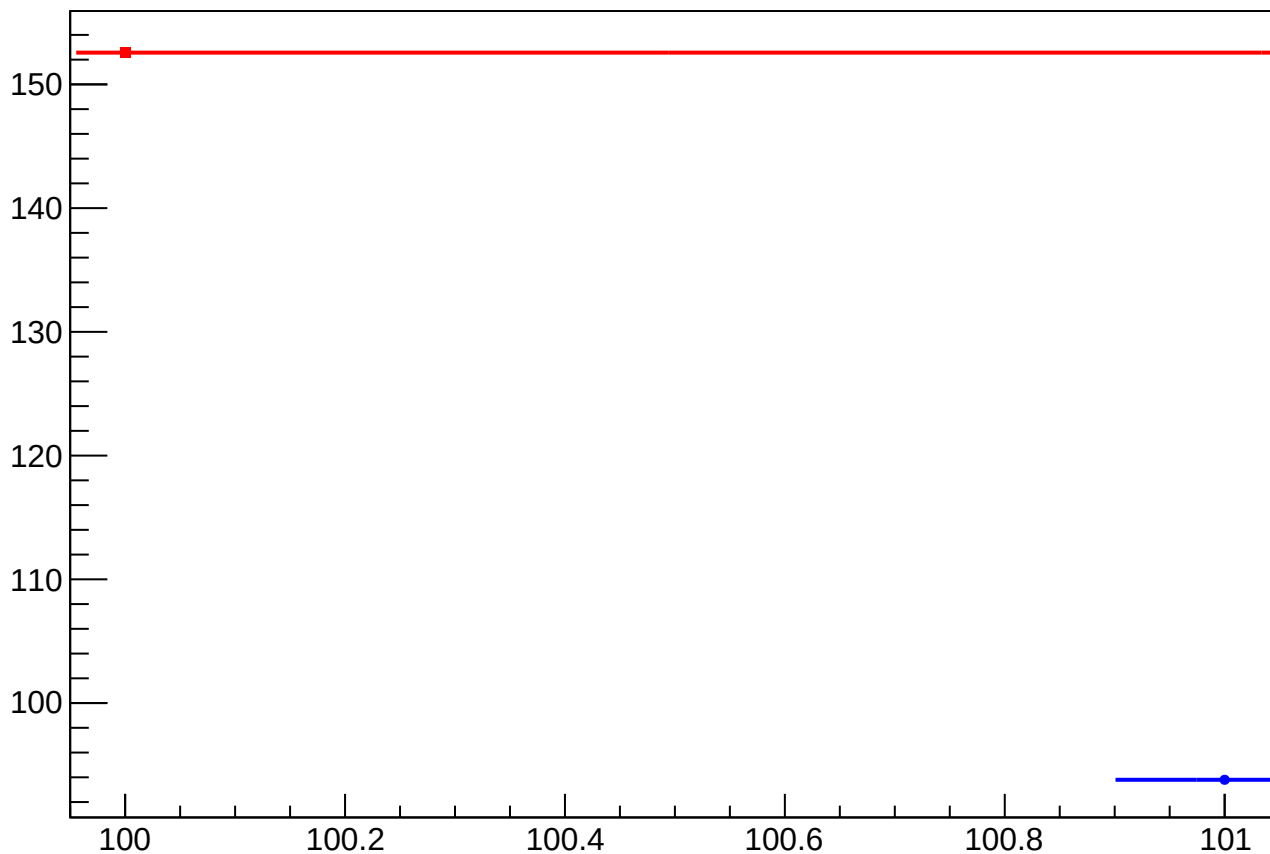
Right: -156.735+/-113.897  $\chi^2/\text{NDF}$ : 0.0/1

In: -154.194+/-116.267  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -156.735+/-113.897  $\chi^2/\text{NDF}$ : 0.0/1

cor\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 93.800+/-0.082  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 152.567+/-0.401  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

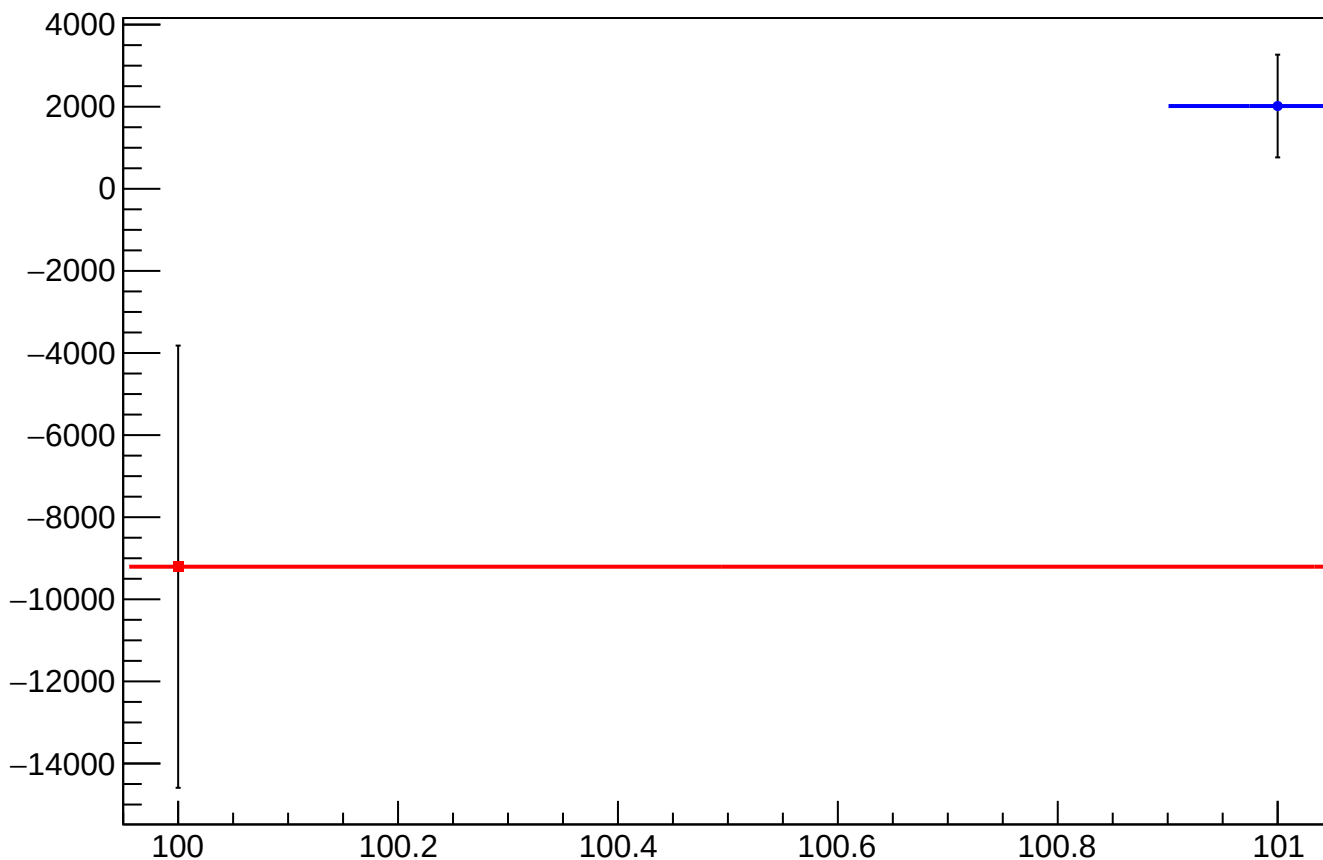
Right: 96.172+/-0.081  $\chi^2/\text{NDF}$ : 20619.4/1

In: 93.800+/-0.082  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 96.172+/-0.081  $\chi^2/\text{NDF}$ : 20619.4/1

asym\_sam\_15\_26\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2016.494+/-1251.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9205.762+/-5386.299  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

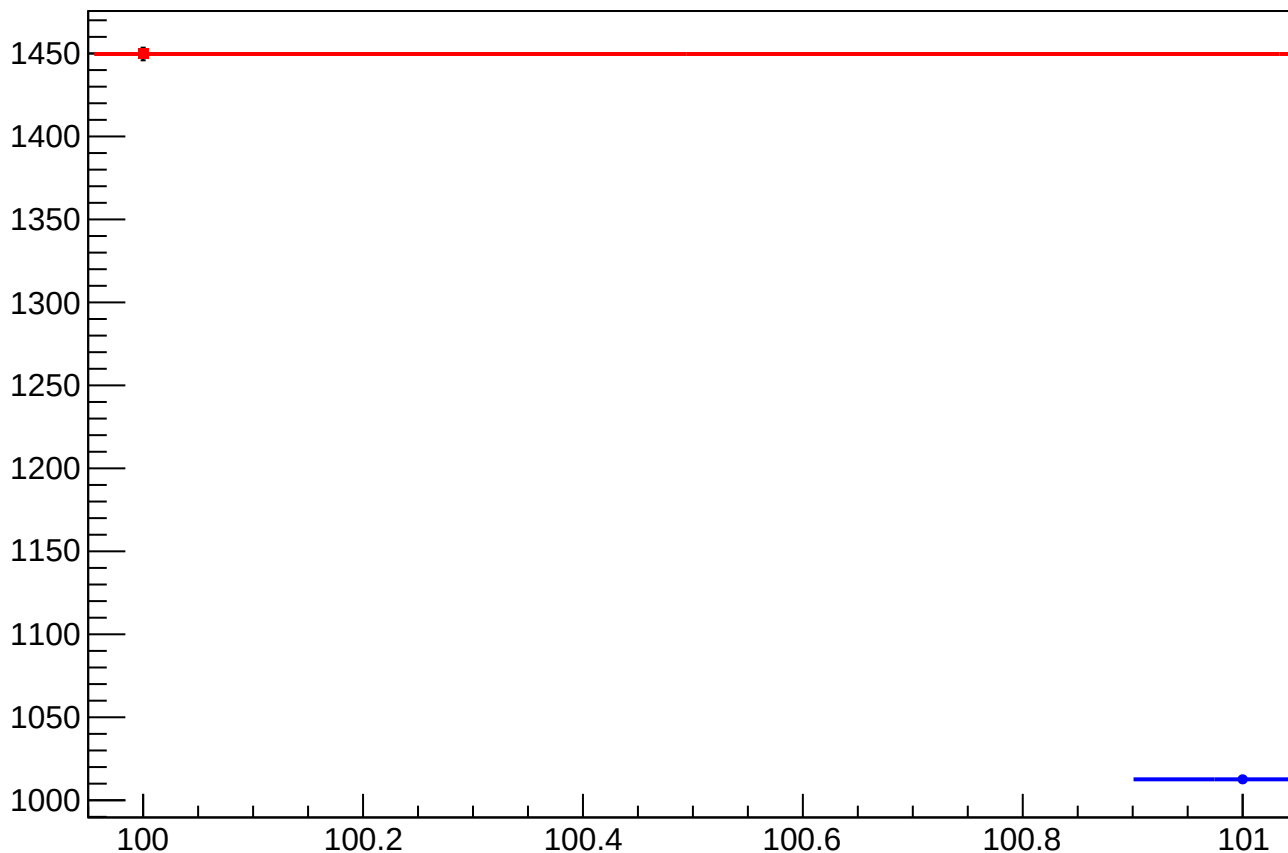
Right: 1441.867+/-1218.831  $\chi^2/\text{NDF}$ : 4.1/1

In: 2016.494+/-1251.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1441.867+/-1218.831  $\chi^2/\text{NDF}$ : 4.1/1

asym\_sam\_15\_26\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1012.607 $\pm$ 0.885  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1449.690 $\pm$ 3.809  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

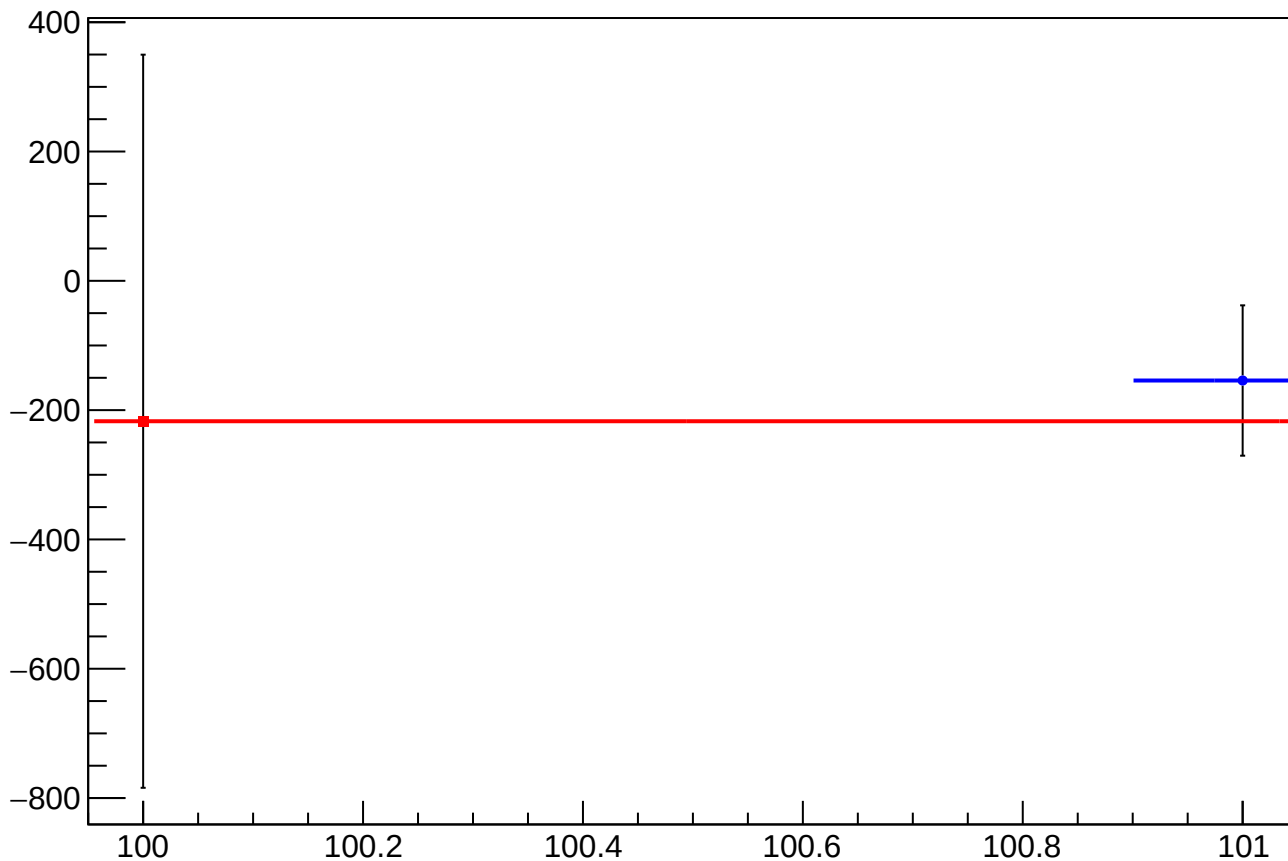
Right: 1034.988 $\pm$ 0.862  $\chi^2$ /NDF: 12495.3/1

In: 1012.607 $\pm$ 0.885  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1034.988 $\pm$ 0.862  $\chi^2$ /NDF: 12495.3/1

eigen\_cor\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -154.194+/-116.267  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -217.176+/-566.973  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

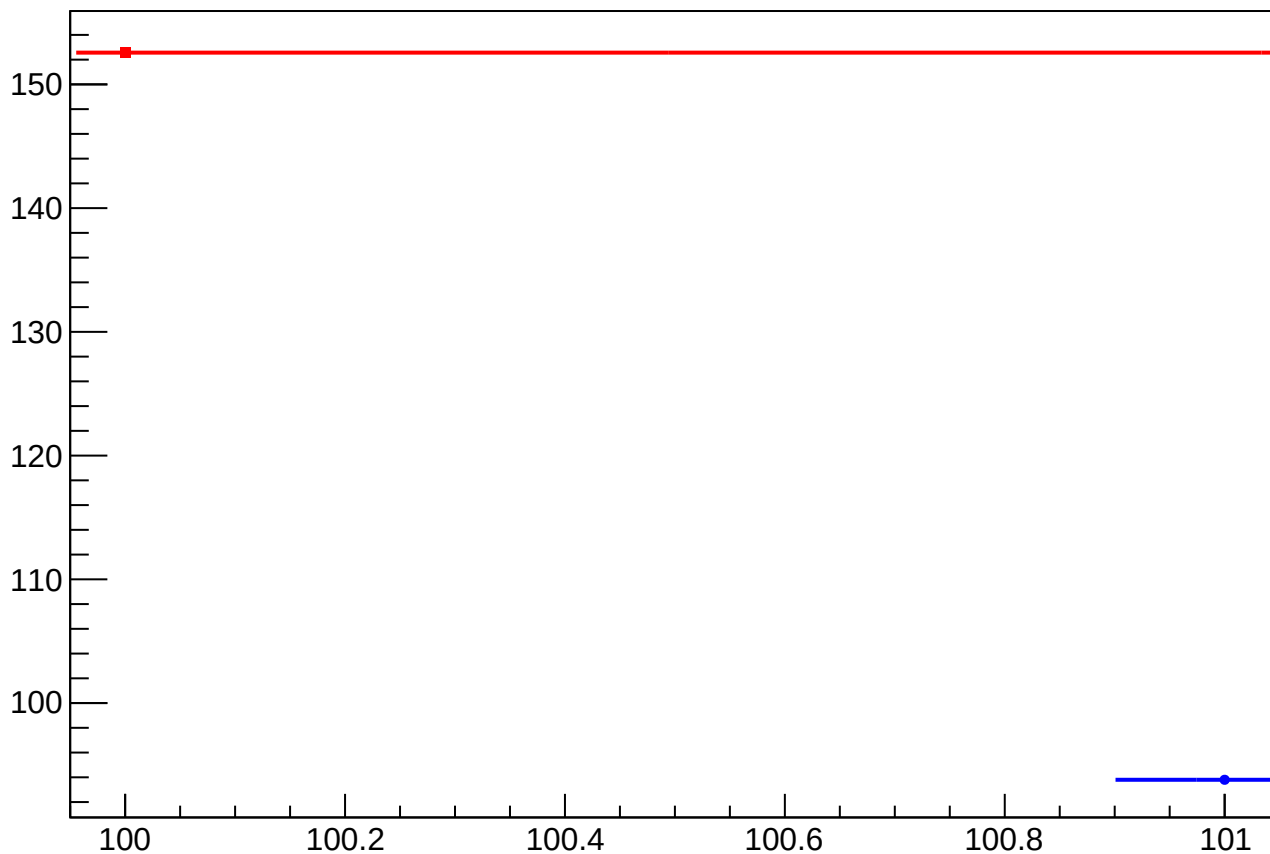
Right: -156.735+/-113.897  $\chi^2/\text{NDF}$ : 0.0/1

In: -154.194+/-116.267  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -156.735+/-113.897  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 93.800 $\pm$ 0.082  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.567 $\pm$ 0.401  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 96.172 $\pm$ 0.081  $\chi^2$ /NDF: 20619.4/1

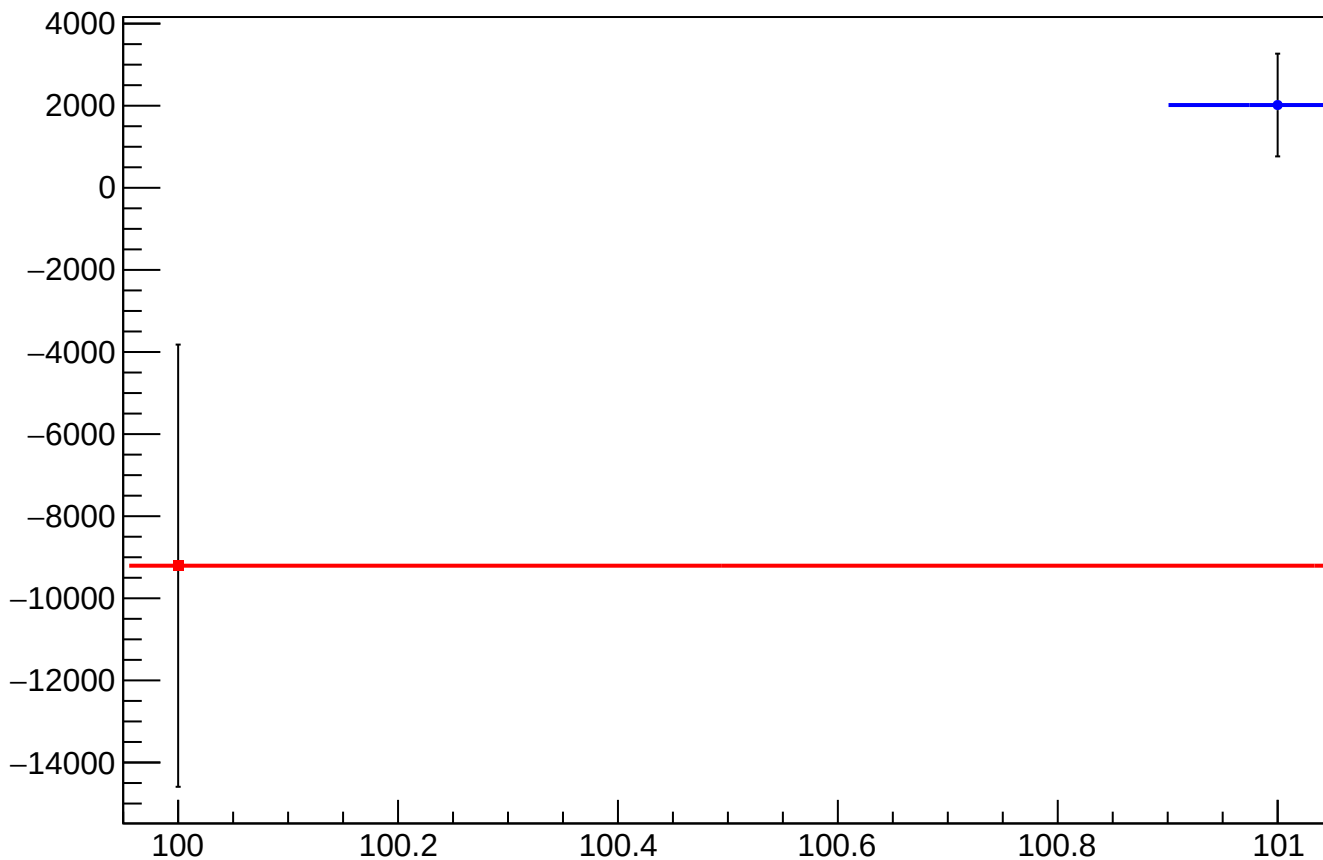
In: 93.800 $\pm$ 0.082  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 96.172 $\pm$ 0.081  $\chi^2$ /NDF: 20619.4/1



asym\_sam\_15\_26\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 2016.494+/-1251.288  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9205.762+/-5386.299  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

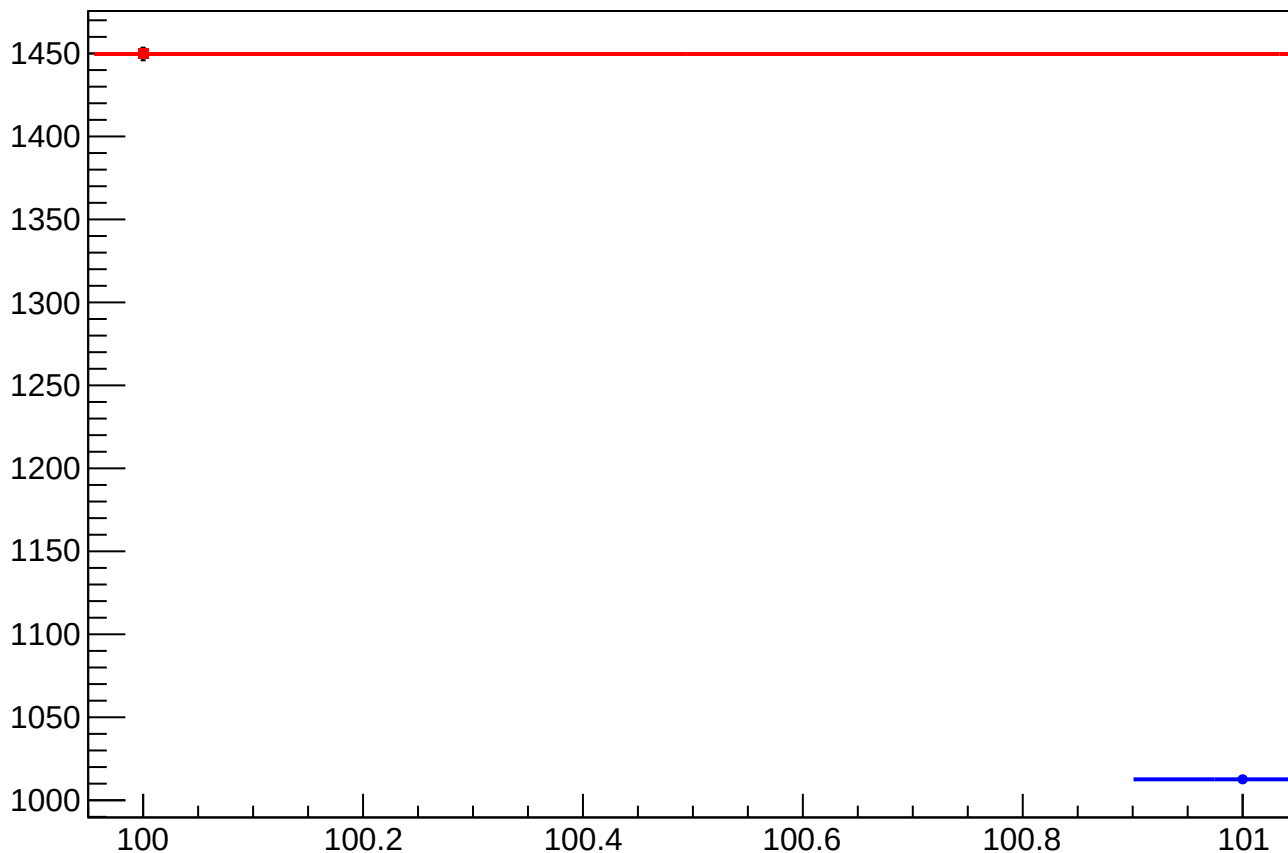
Right: 1441.867+/-1218.831  $\chi^2/\text{NDF}$ : 4.1/1

In: 2016.494+/-1251.288  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1441.867+/-1218.831  $\chi^2/\text{NDF}$ : 4.1/1

asym\_sam\_15\_26\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1012.607 $\pm$ 0.885  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1449.690 $\pm$ 3.809  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

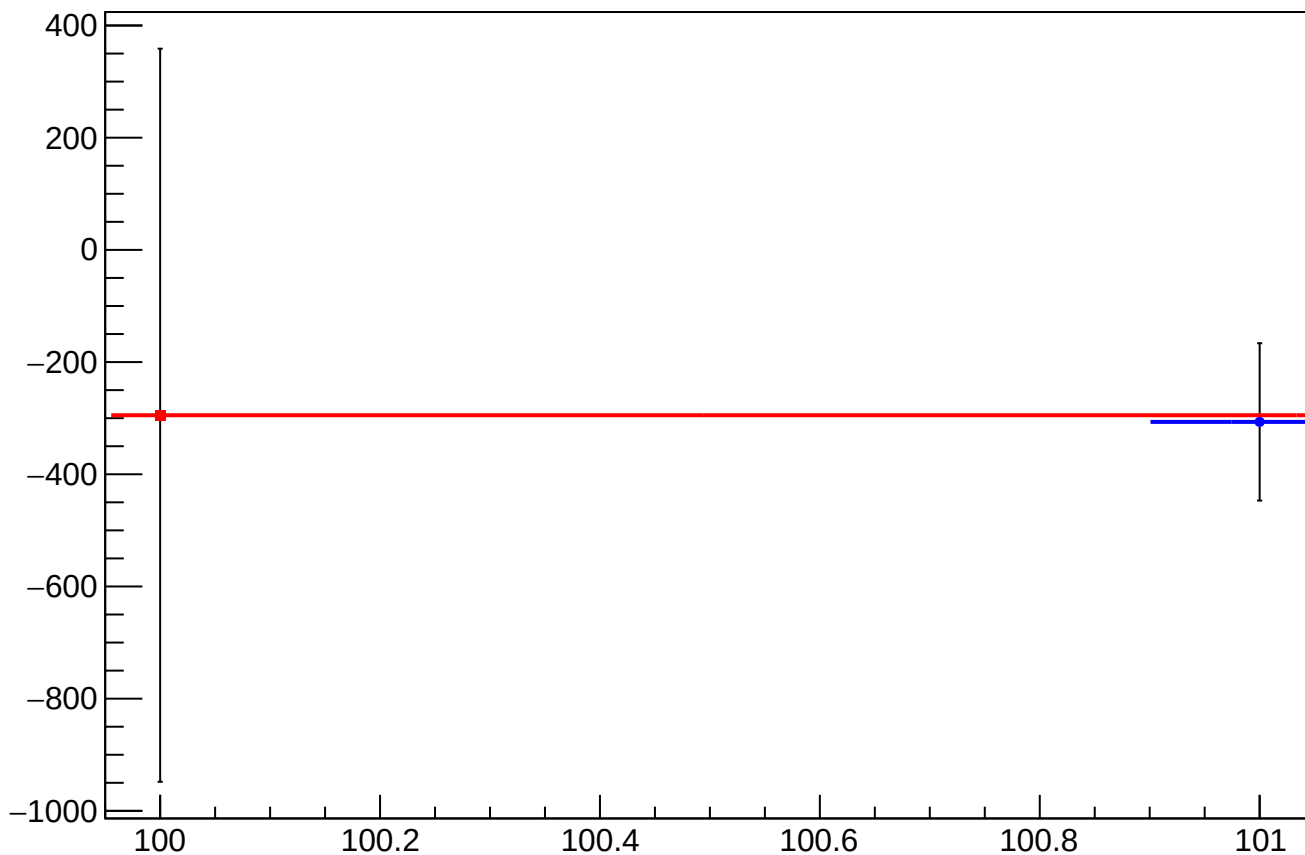
Right: 1034.988 $\pm$ 0.862  $\chi^2$ /NDF: 12495.3/1

In: 1012.607 $\pm$ 0.885  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1034.988 $\pm$ 0.862  $\chi^2$ /NDF: 12495.3/1

dit\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In:  $-306.619 \pm 140.251$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-294.752 \pm 653.449$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

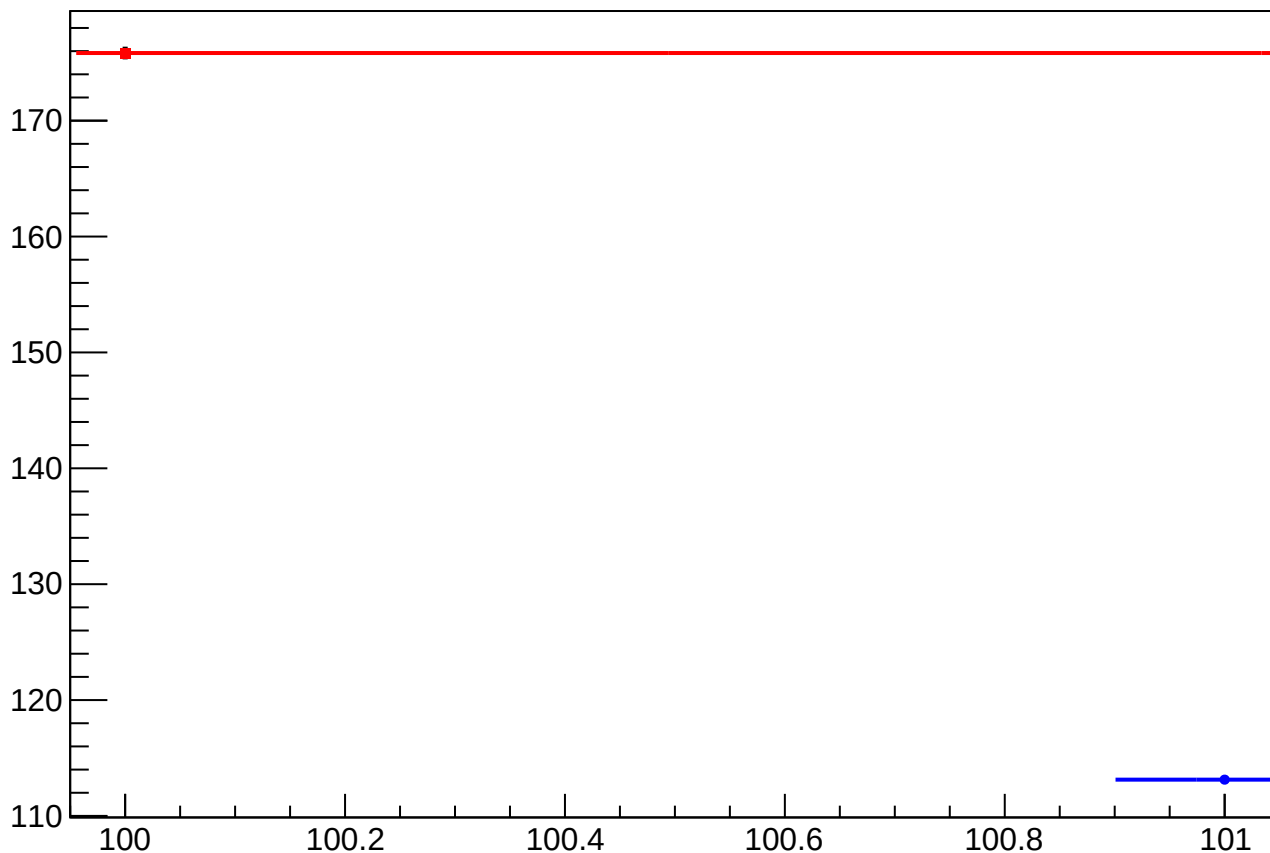
Right:  $-306.097 \pm 137.128$   $\chi^2/\text{NDF}$ : 0.0/1

In:  $-306.619 \pm 140.251$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-306.097 \pm 137.128$   $\chi^2/\text{NDF}$ : 0.0/1

dit\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 113.132 $\pm$ 0.099  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 175.838 $\pm$ 0.462  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

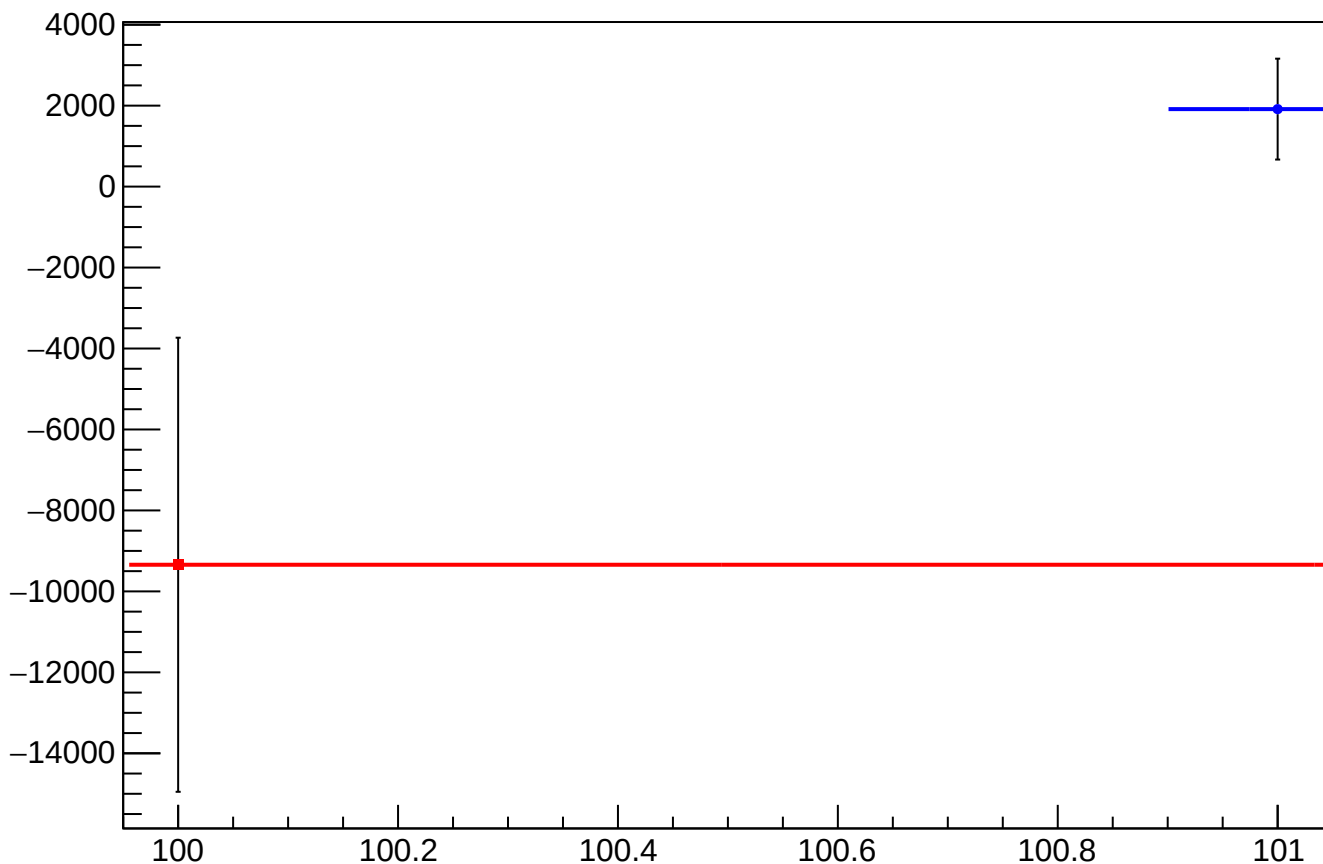
Right: 115.894 $\pm$ 0.097  $\chi^2$ /NDF: 17605.7/1

In: 113.132 $\pm$ 0.099  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 115.894 $\pm$ 0.097  $\chi^2$ /NDF: 17605.7/1

asym\_sam\_15\_26\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1914.160+/-1246.069  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9341.804+/-5609.052  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

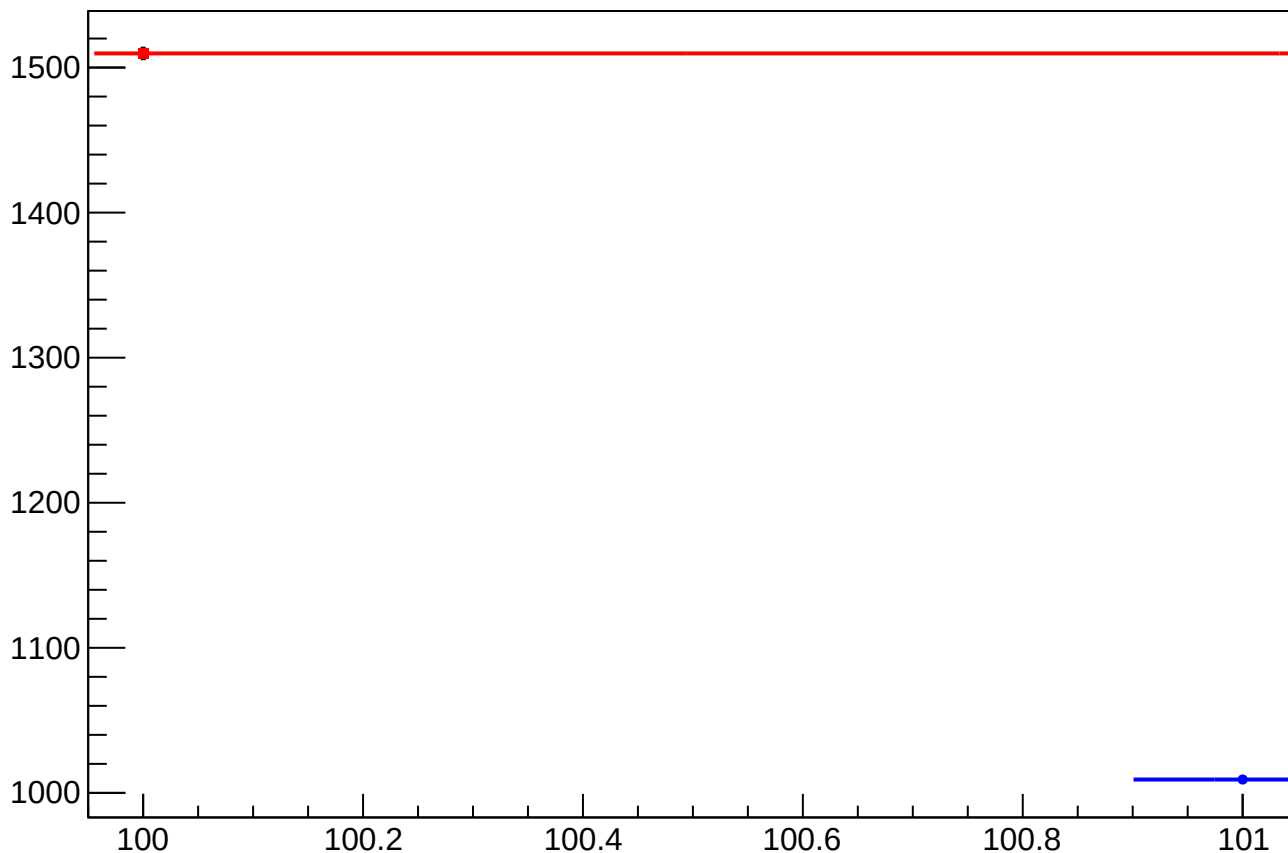
Right: 1384.780+/-1216.415  $\chi^2/\text{NDF}$ : 3.8/1

In: 1914.160+/-1246.069  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1384.780+/-1216.415  $\chi^2/\text{NDF}$ : 3.8/1

asym\_sam\_15\_26\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1009.211 $\pm$ 0.881  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1509.739 $\pm$ 3.966  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

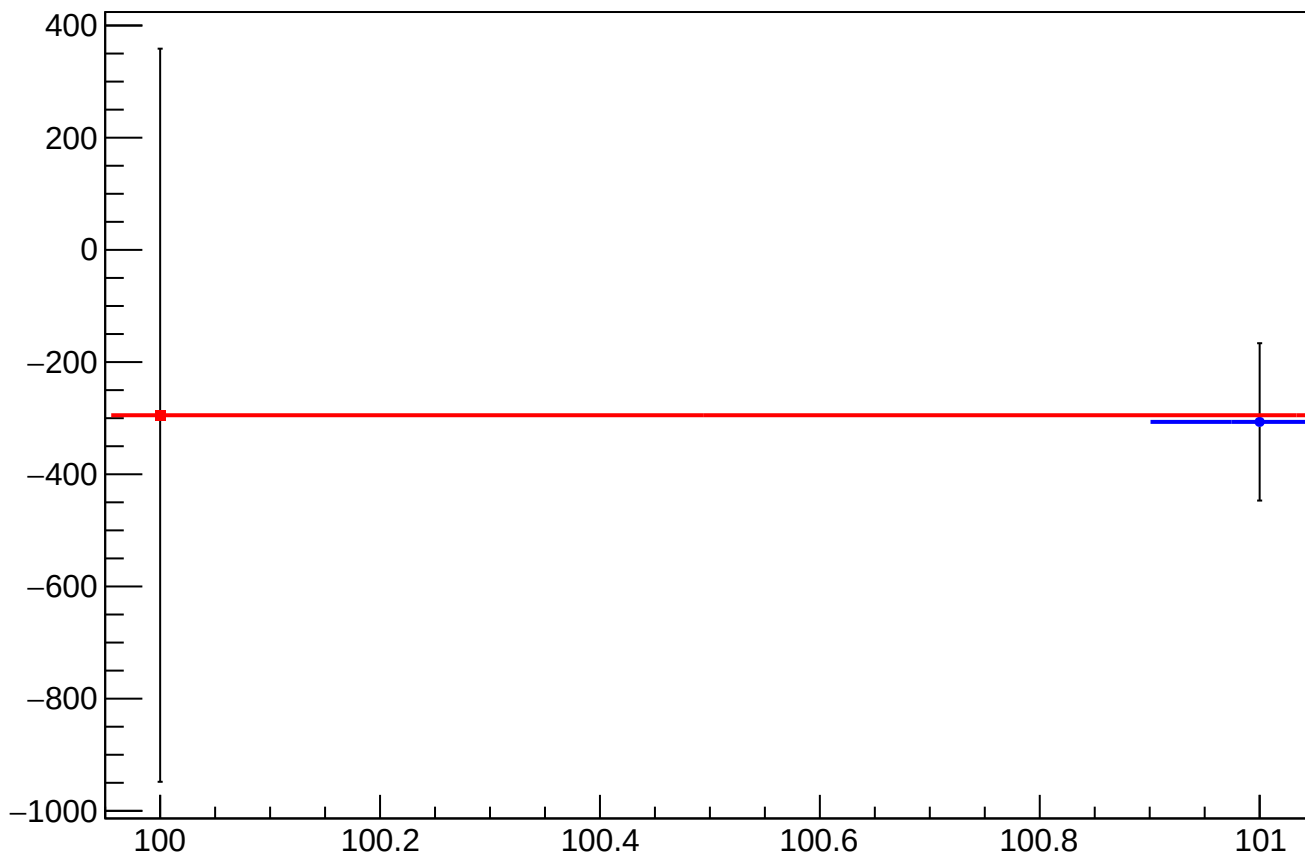
Right: 1032.751 $\pm$ 0.860  $\chi^2$ /NDF: 15177.0/1

In: 1009.211 $\pm$ 0.881  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1032.751 $\pm$ 0.860  $\chi^2$ /NDF: 15177.0/1

eigen\_dit\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -306.619+/-140.251  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -294.756+/-653.449  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

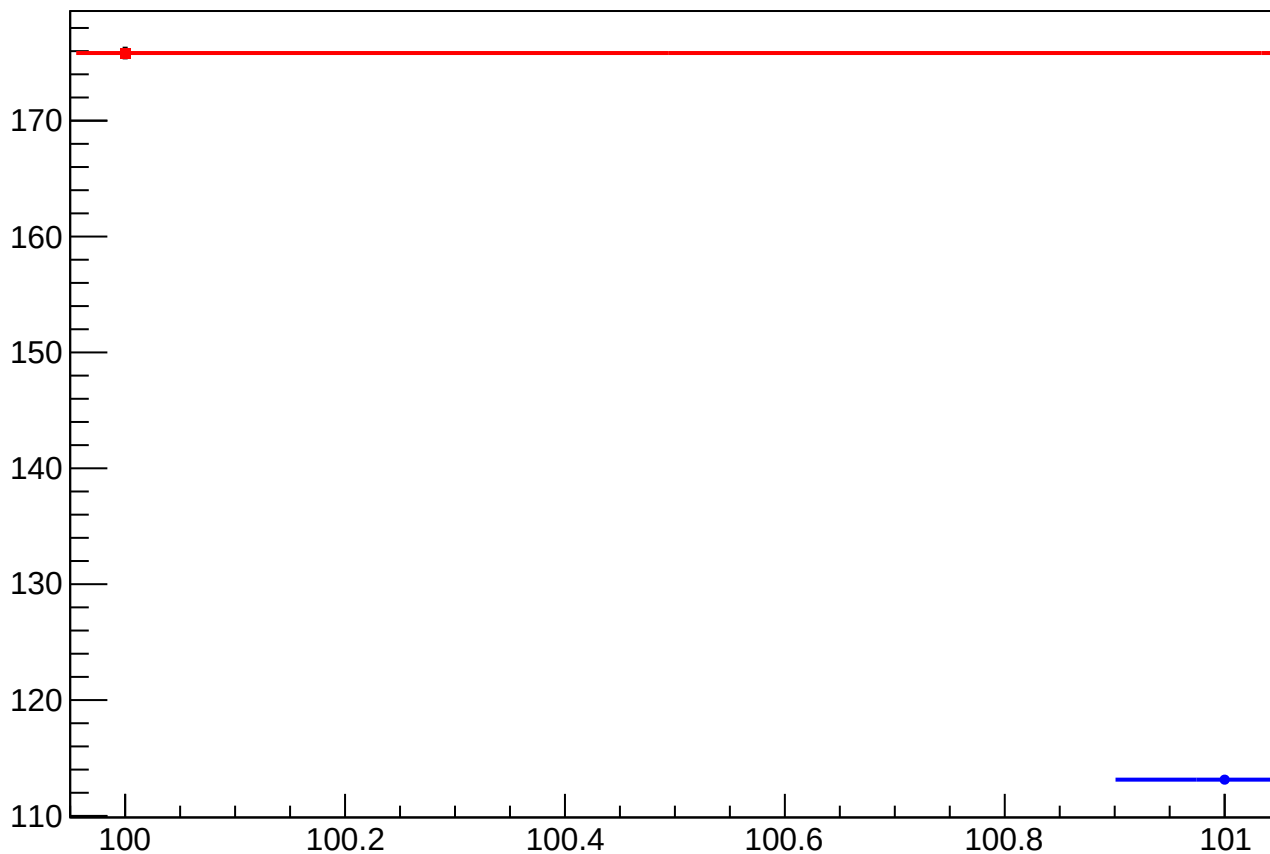
Right: -306.096+/-137.128  $\chi^2/\text{NDF}$ : 0.0/1

In: -306.619+/-140.251  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -306.096+/-137.128  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 113.133 $\pm$ 0.099  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 175.838 $\pm$ 0.462  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 115.894 $\pm$ 0.097  $\chi^2$ /NDF: 17605.7/1

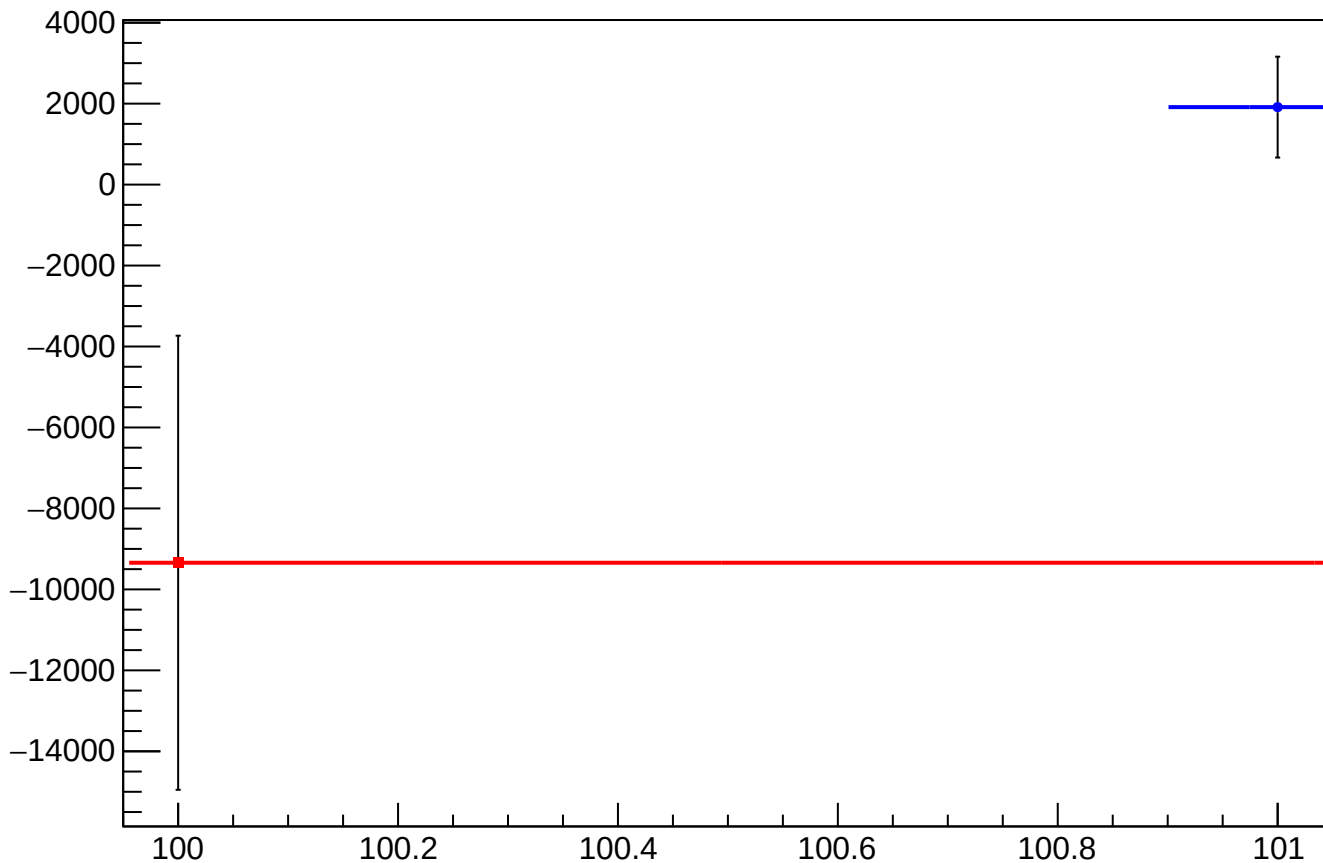
In: 113.133 $\pm$ 0.099  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 115.894 $\pm$ 0.097  $\chi^2$ /NDF: 17605.7/1



asym\_sam\_15\_26\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1914.160+/-1246.069  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9341.808+/-5609.053  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

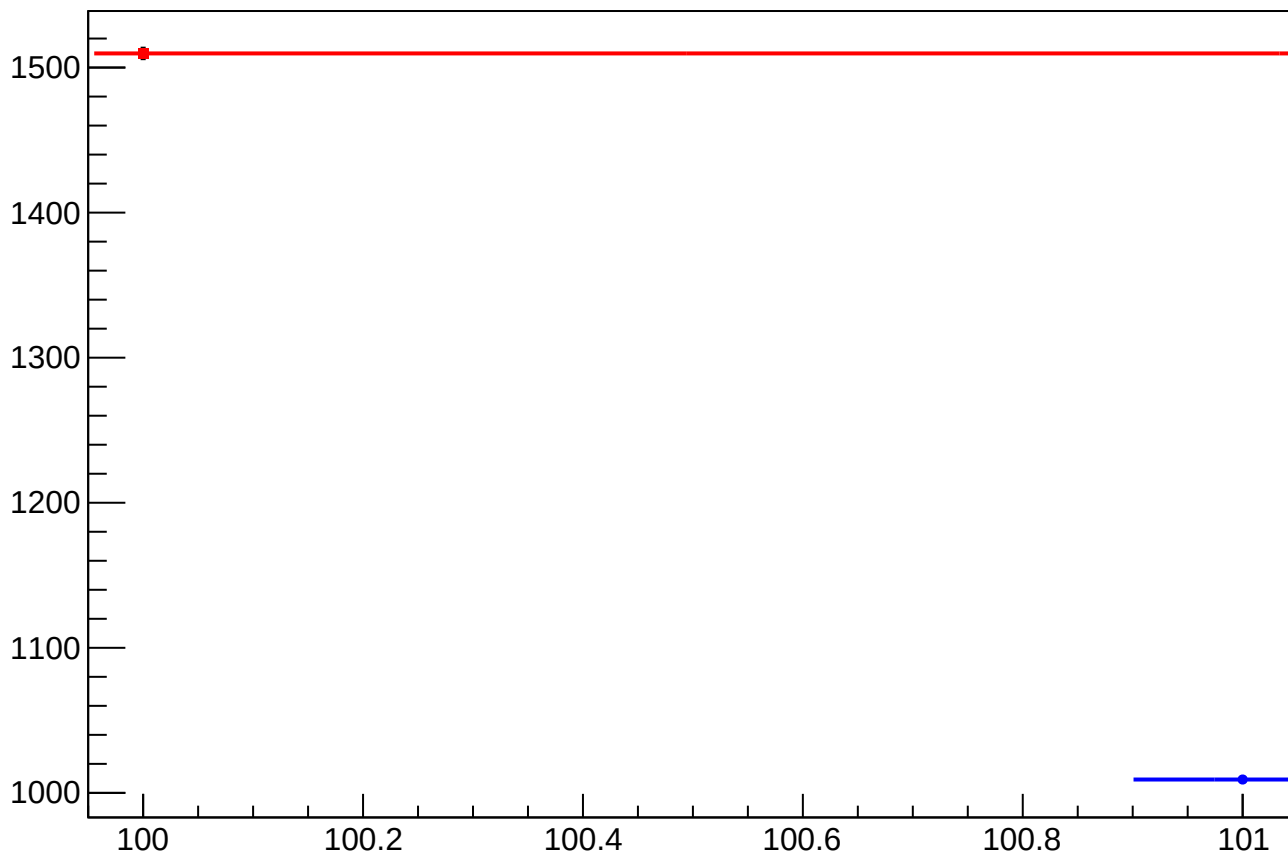
Right: 1384.781+/-1216.414  $\chi^2/\text{NDF}$ : 3.8/1

In: 1914.160+/-1246.069  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1384.781+/-1216.414  $\chi^2/\text{NDF}$ : 3.8/1

asym\_sam\_15\_26\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1009.211 $\pm$ 0.881  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1509.740 $\pm$ 3.966  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

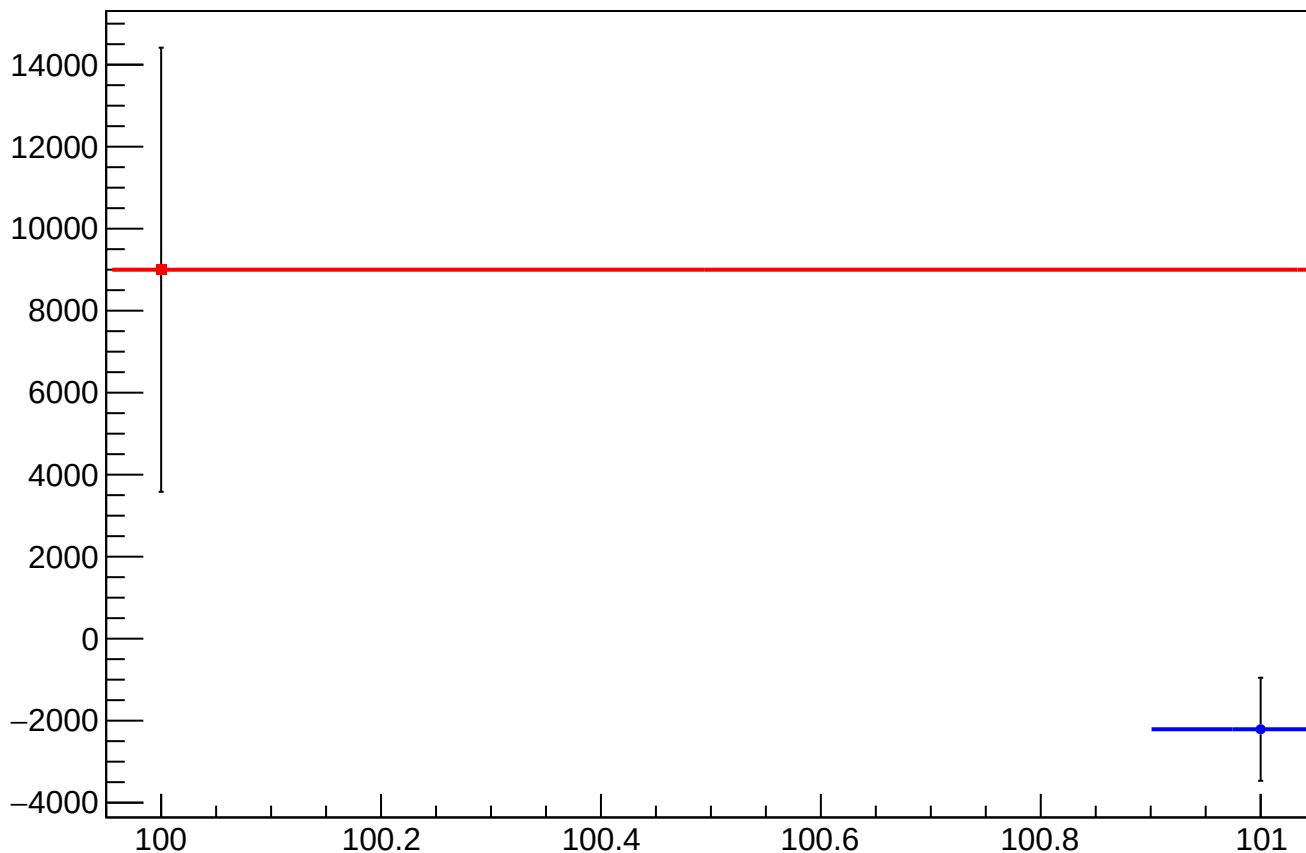
Right: 1032.751 $\pm$ 0.860  $\chi^2$ /NDF: 15177.1/1

In: 1009.211 $\pm$ 0.881  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1032.751 $\pm$ 0.860  $\chi^2$ /NDF: 15177.1/1

asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -2209.662 $\pm$ 1256.984  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 8998.821 $\pm$ 5416.086  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

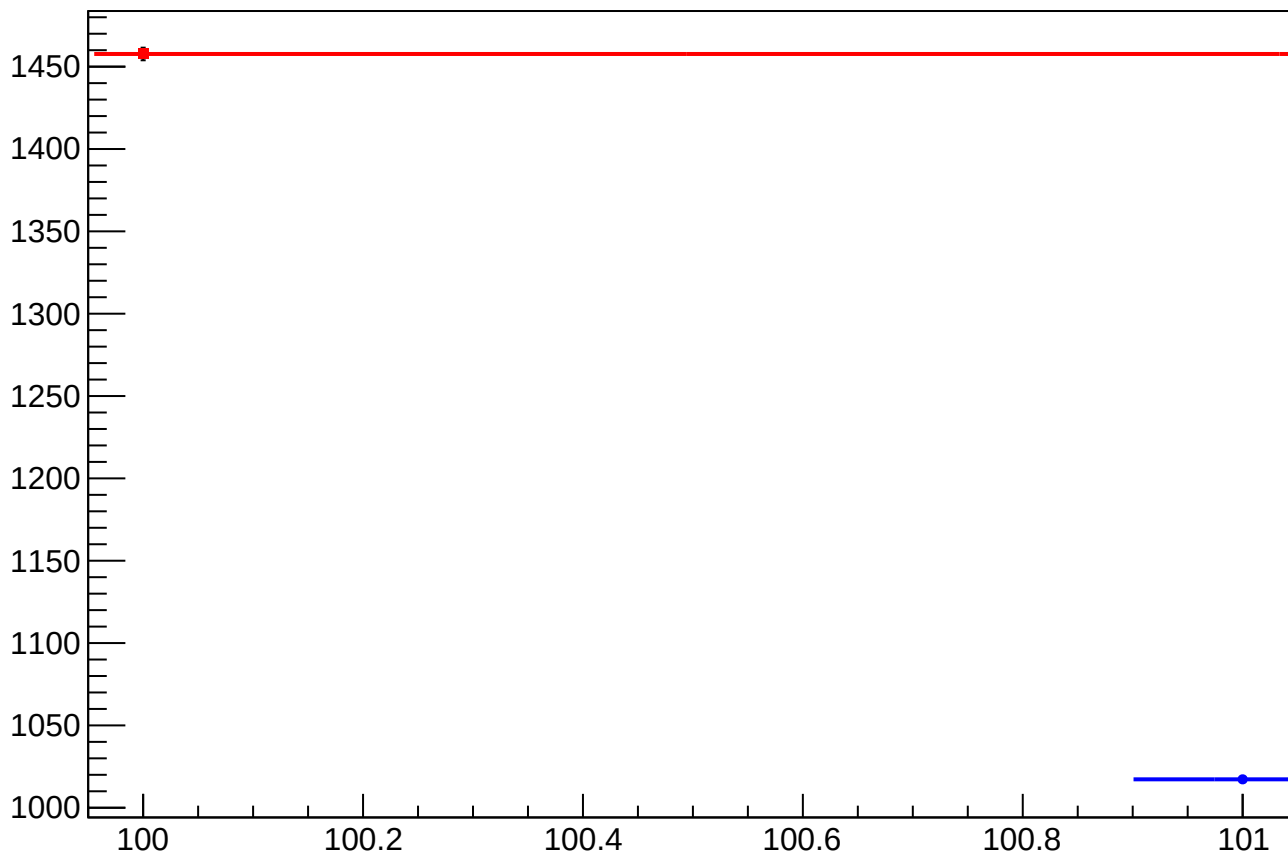
Right: -1636.798 $\pm$ 1224.441  $\chi^2$ /NDF: 4.1/1

In: -2209.662 $\pm$ 1256.984  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1636.798 $\pm$ 1224.441  $\chi^2$ /NDF: 4.1/1

# asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 1017.253+/-0.889  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1457.706+/-3.830  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

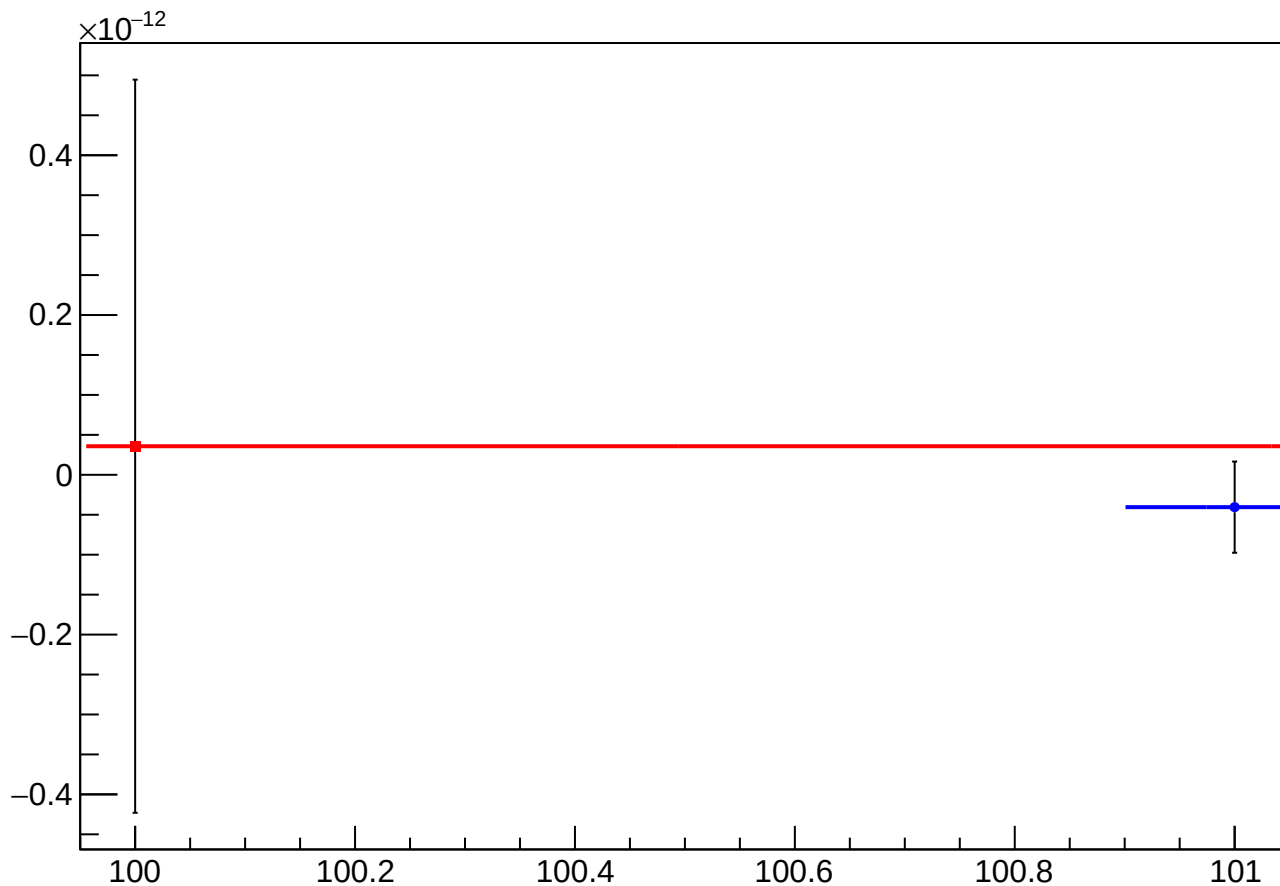
Right: 1039.764+/-0.866  $\chi^2/\text{NDF}$ : 12550.9/1

In: 1017.253+/-0.889  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1039.764+/-0.866  $\chi^2/\text{NDF}$ : 12550.9/1

asym\_sam\_15\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

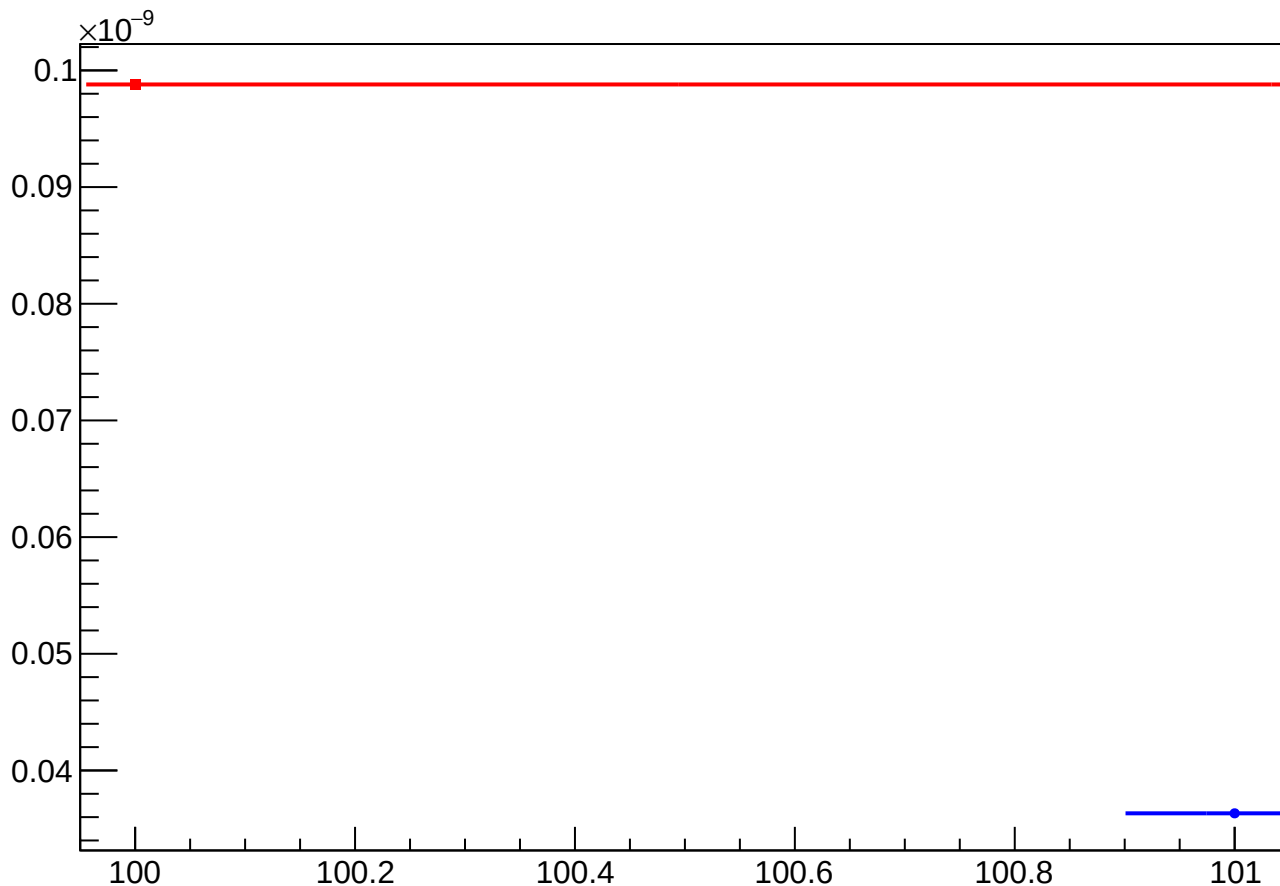
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_15\_26\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

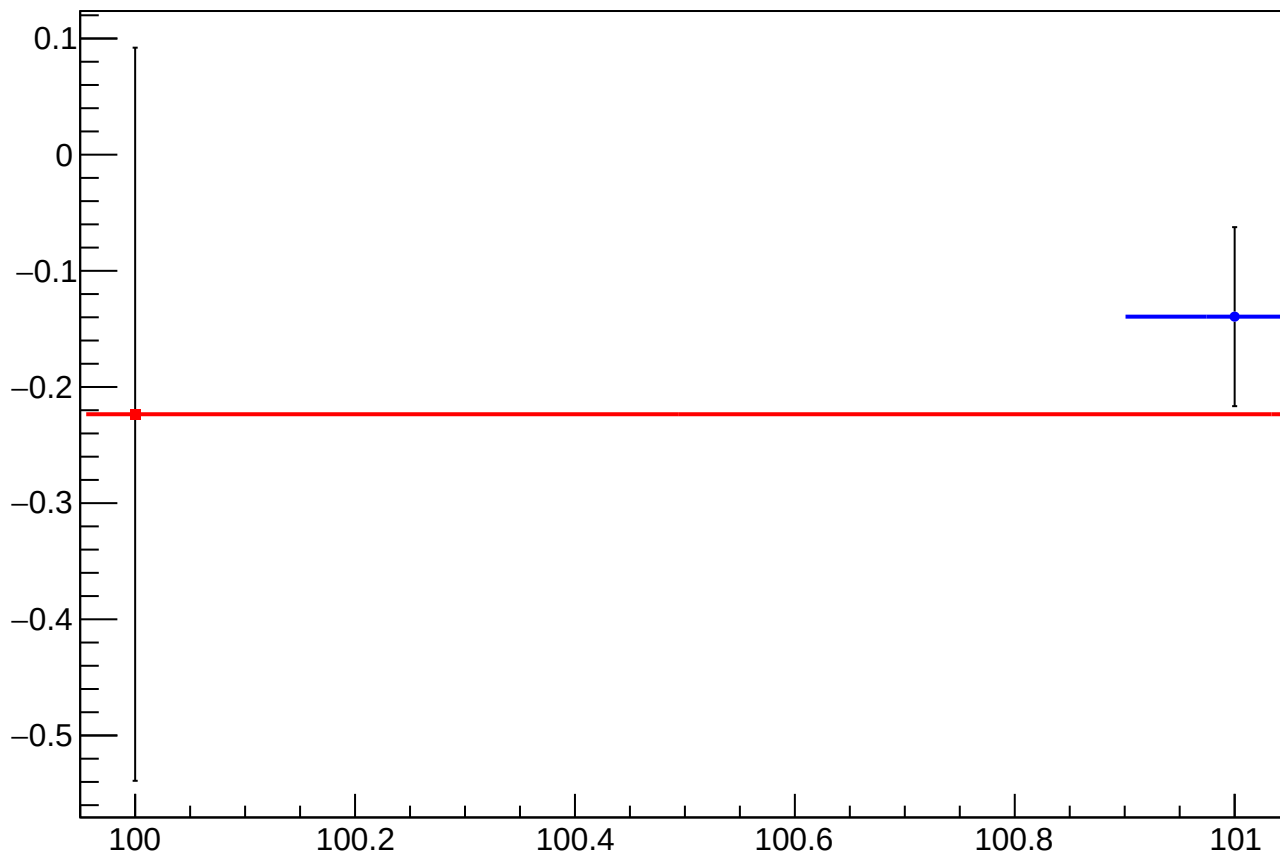
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 36510.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 36510.2/1

asym\_sam\_15\_26\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.223+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

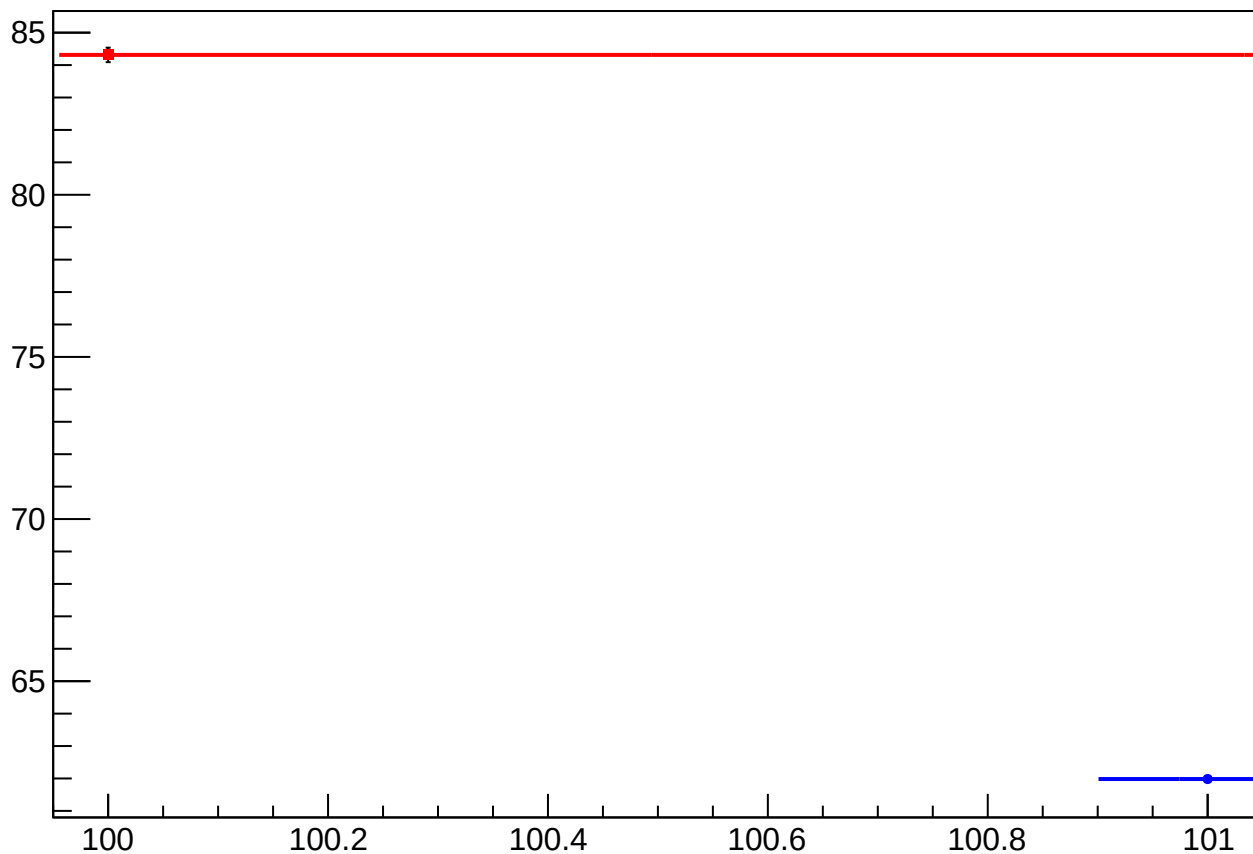
Right: -0.144+/-0.075  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.139+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.144+/-0.075  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_15\_26\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 61.983 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 84.314 $\pm$ 0.223  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 63.239 $\pm$ 0.053  $\chi^2$ /NDF: 9451.6/1

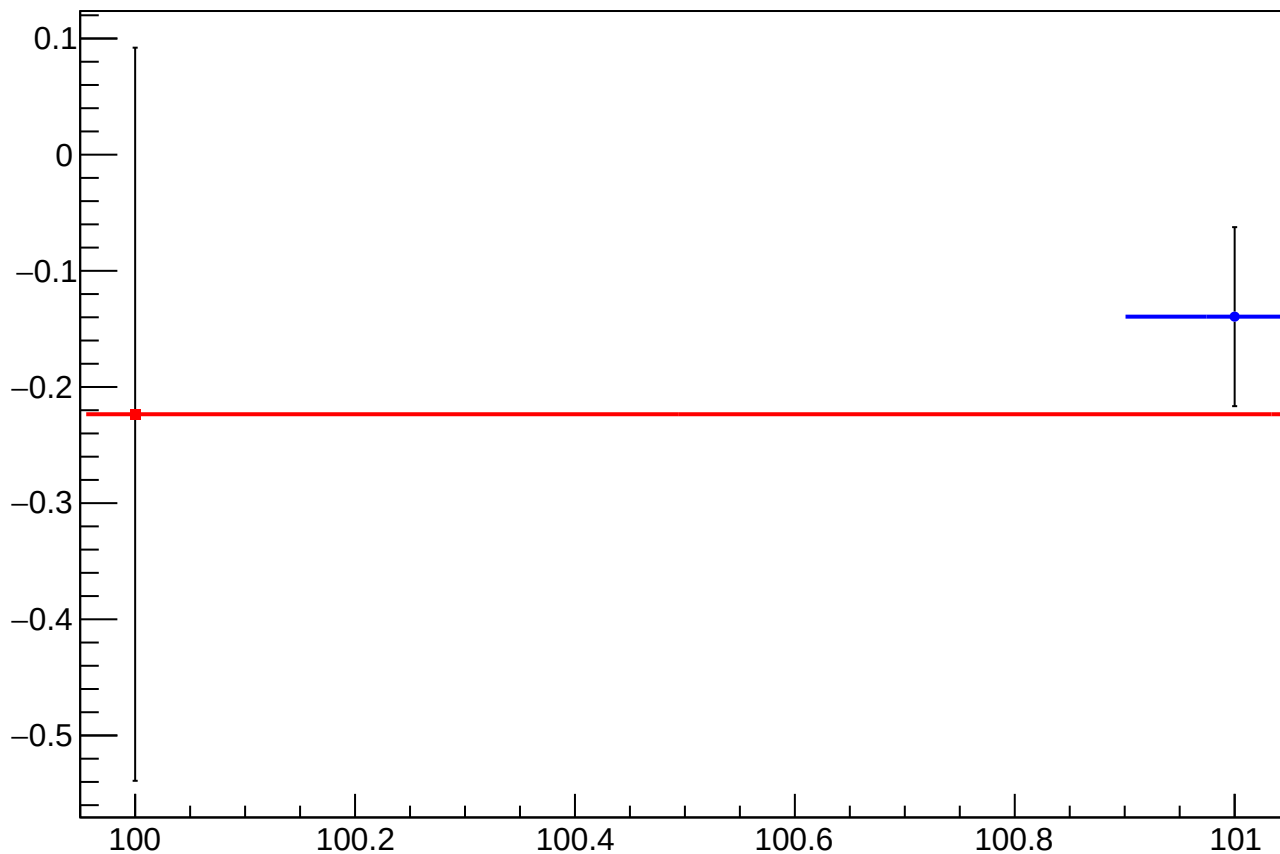
In: 61.983 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.239 $\pm$ 0.053  $\chi^2$ /NDF: 9451.6/1



asym\_sam\_15\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.223+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

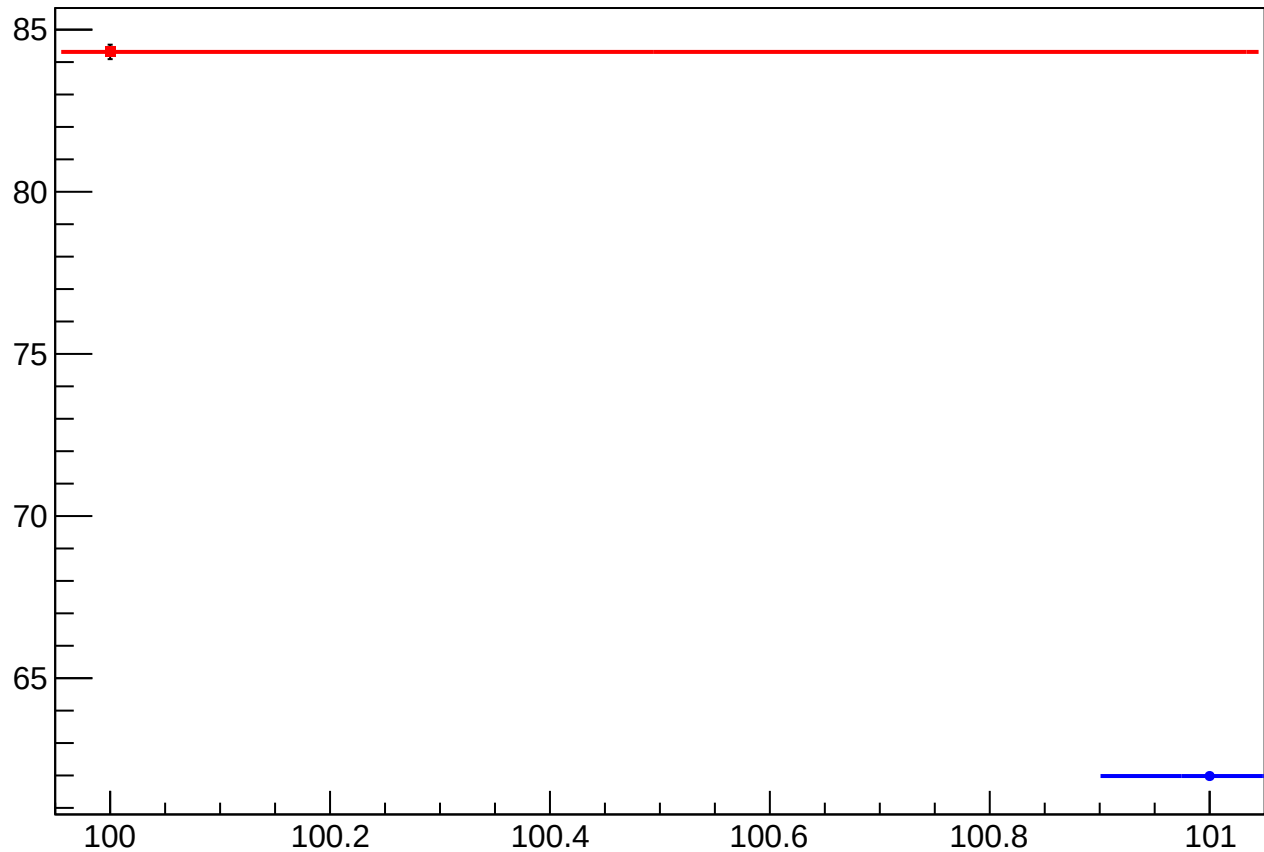
Right: -0.144+/-0.075  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.139+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.144+/-0.075  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_15\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 61.983 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 84.314 $\pm$ 0.223  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

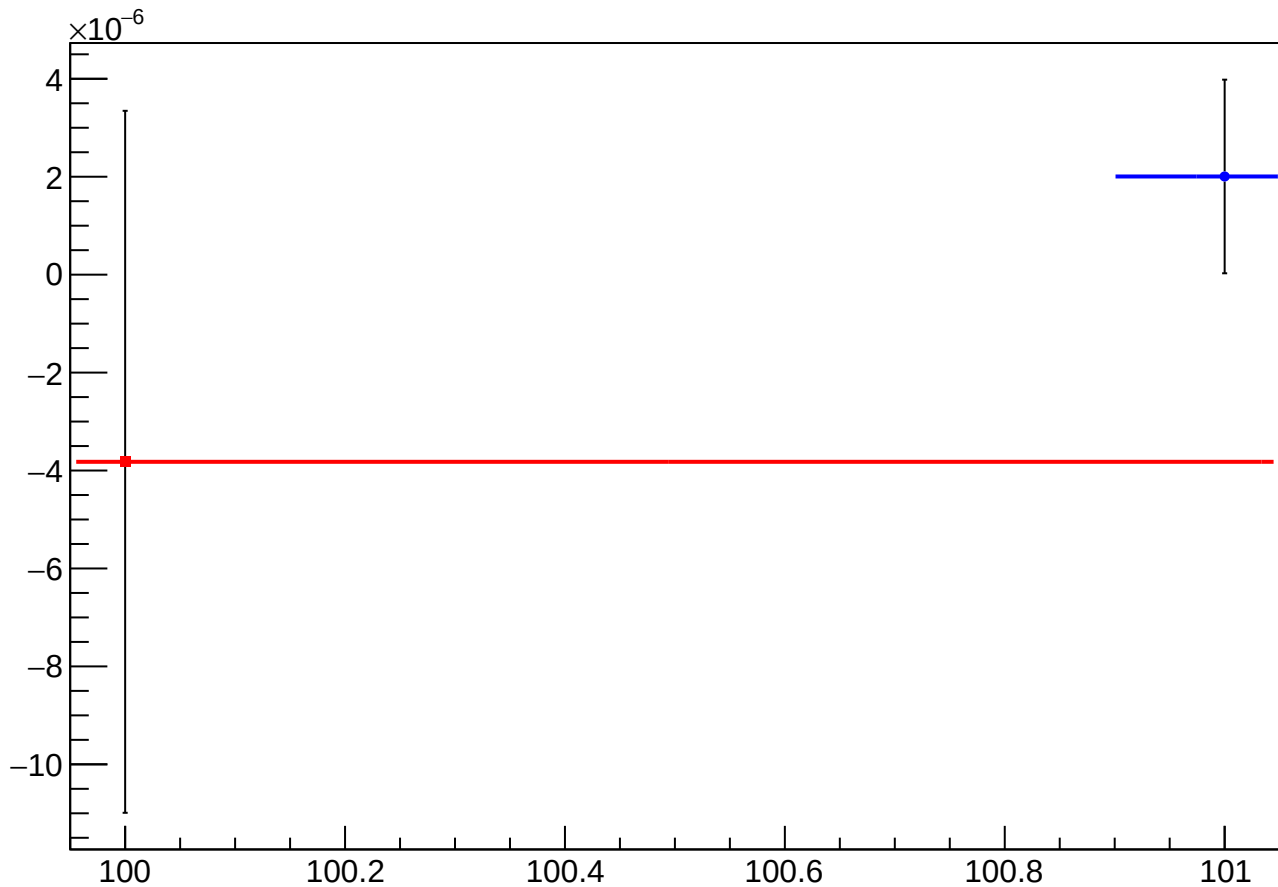
Right: 63.239 $\pm$ 0.053  $\chi^2$ /NDF: 9451.6/1

In: 61.983 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.239 $\pm$ 0.053  $\chi^2$ /NDF: 9451.6/1

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

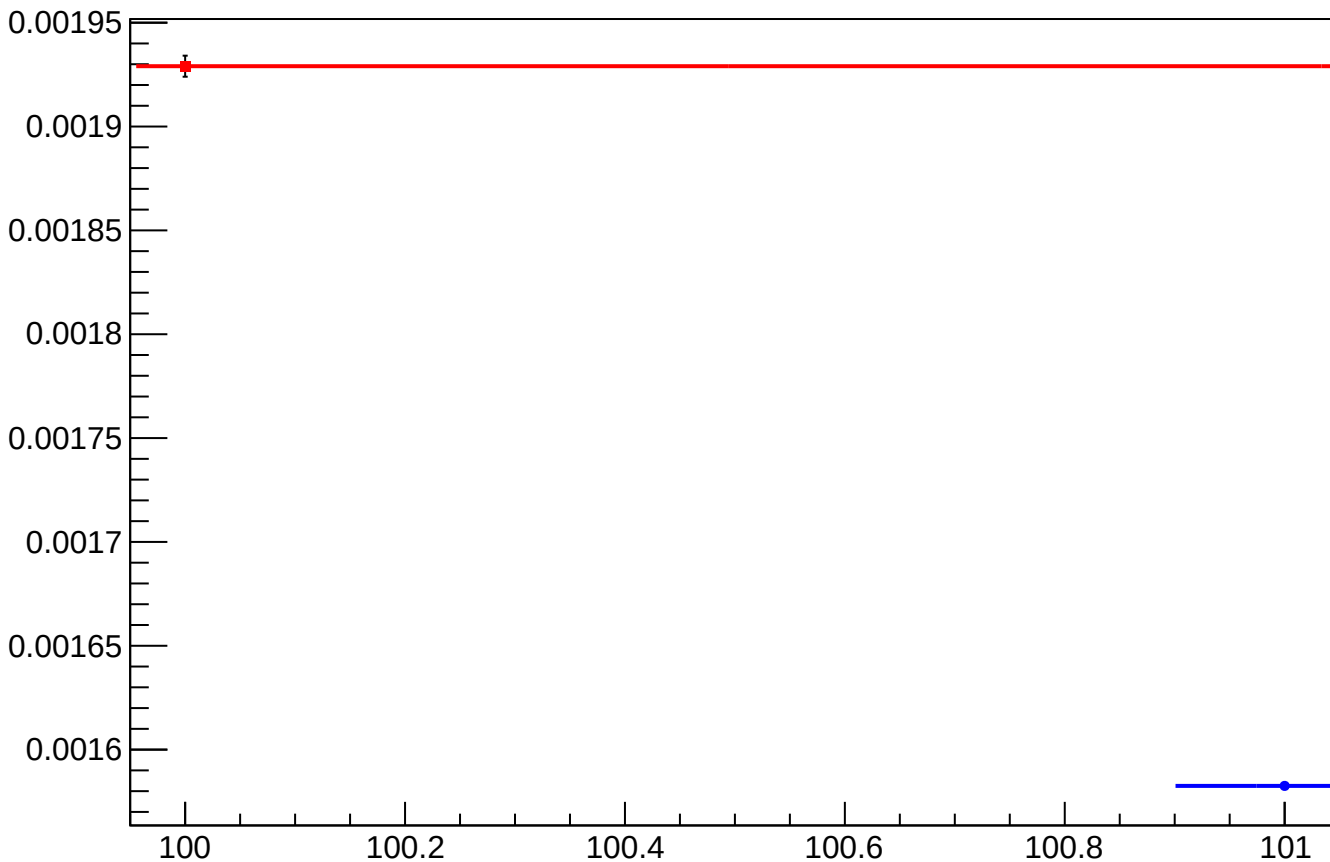
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

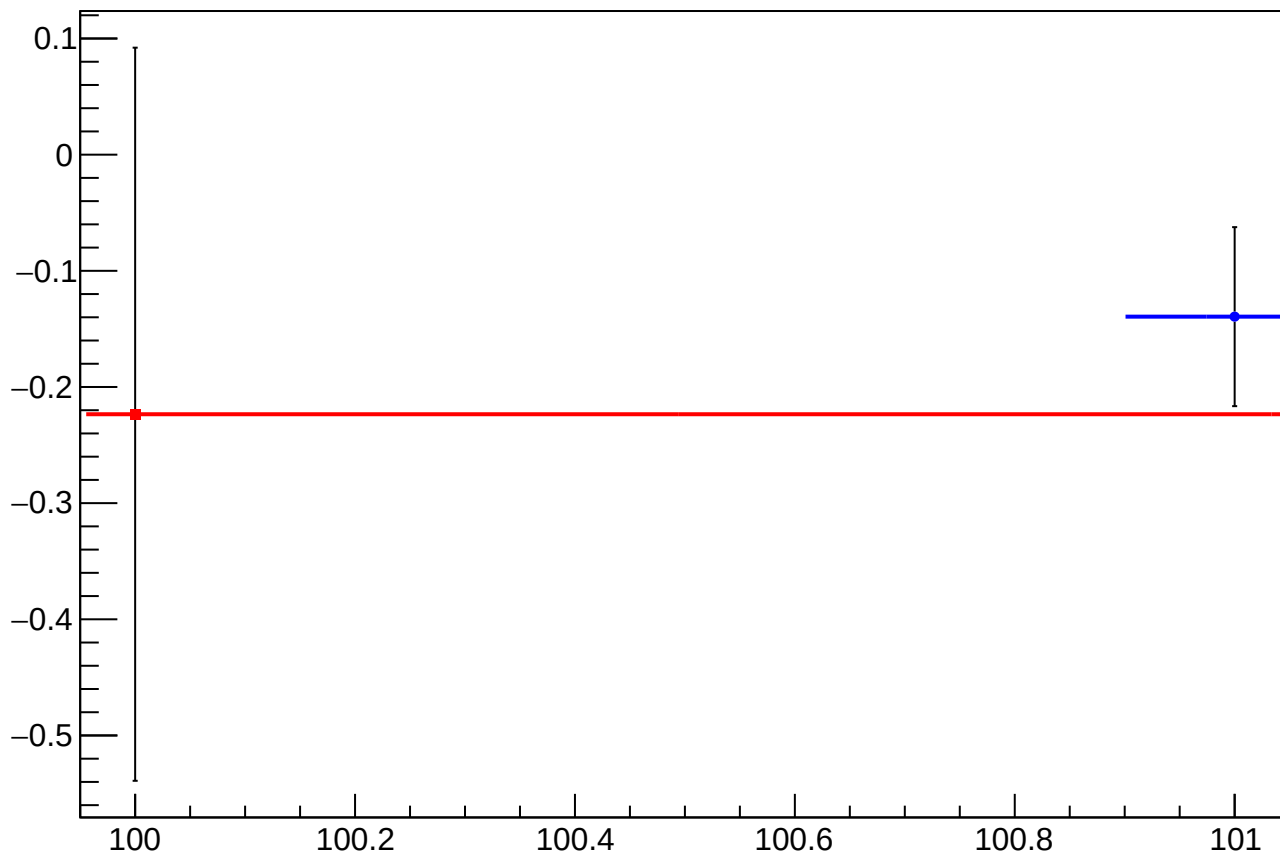
Right: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4343.8/1

In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4343.8/1

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.223+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

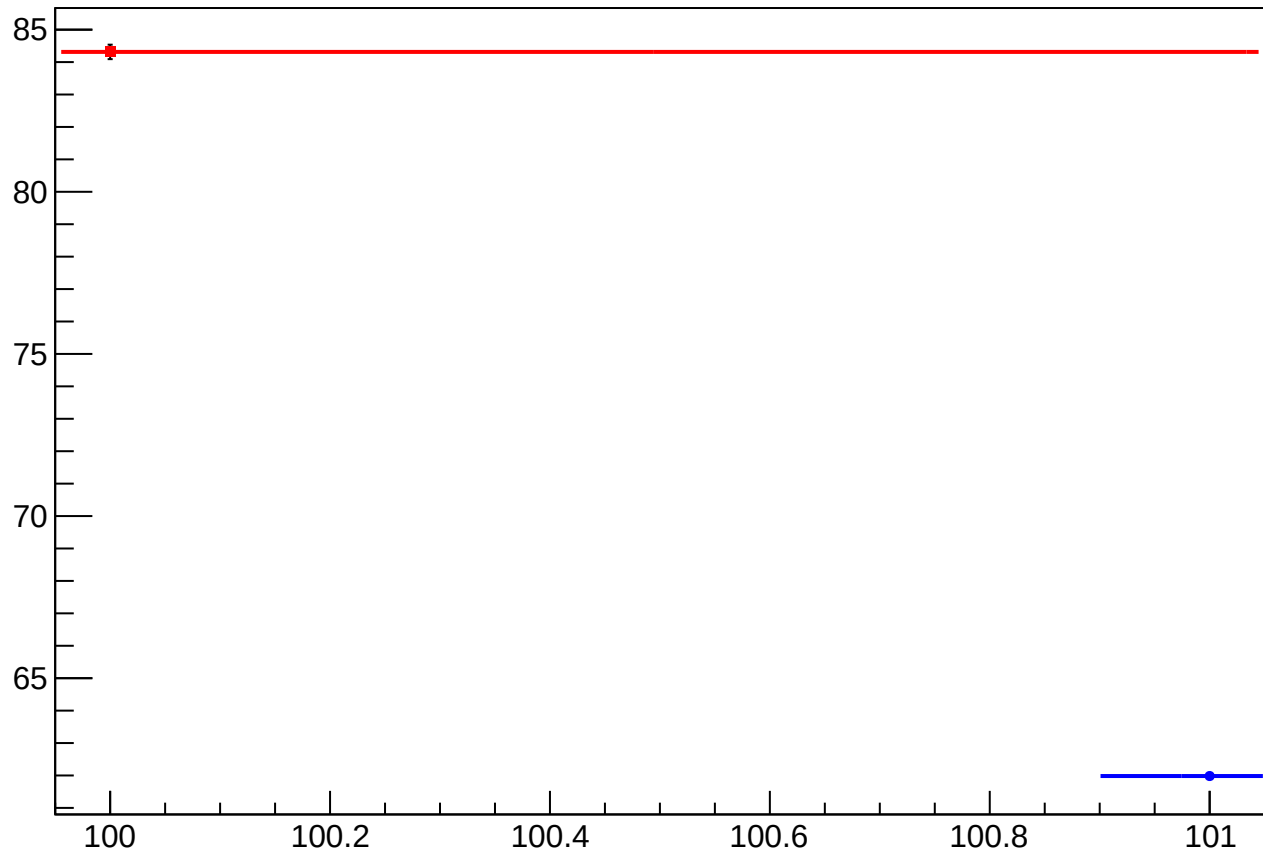
Right: -0.144+/-0.075  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.139+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.144+/-0.075  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 61.983 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 84.314 $\pm$ 0.223  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

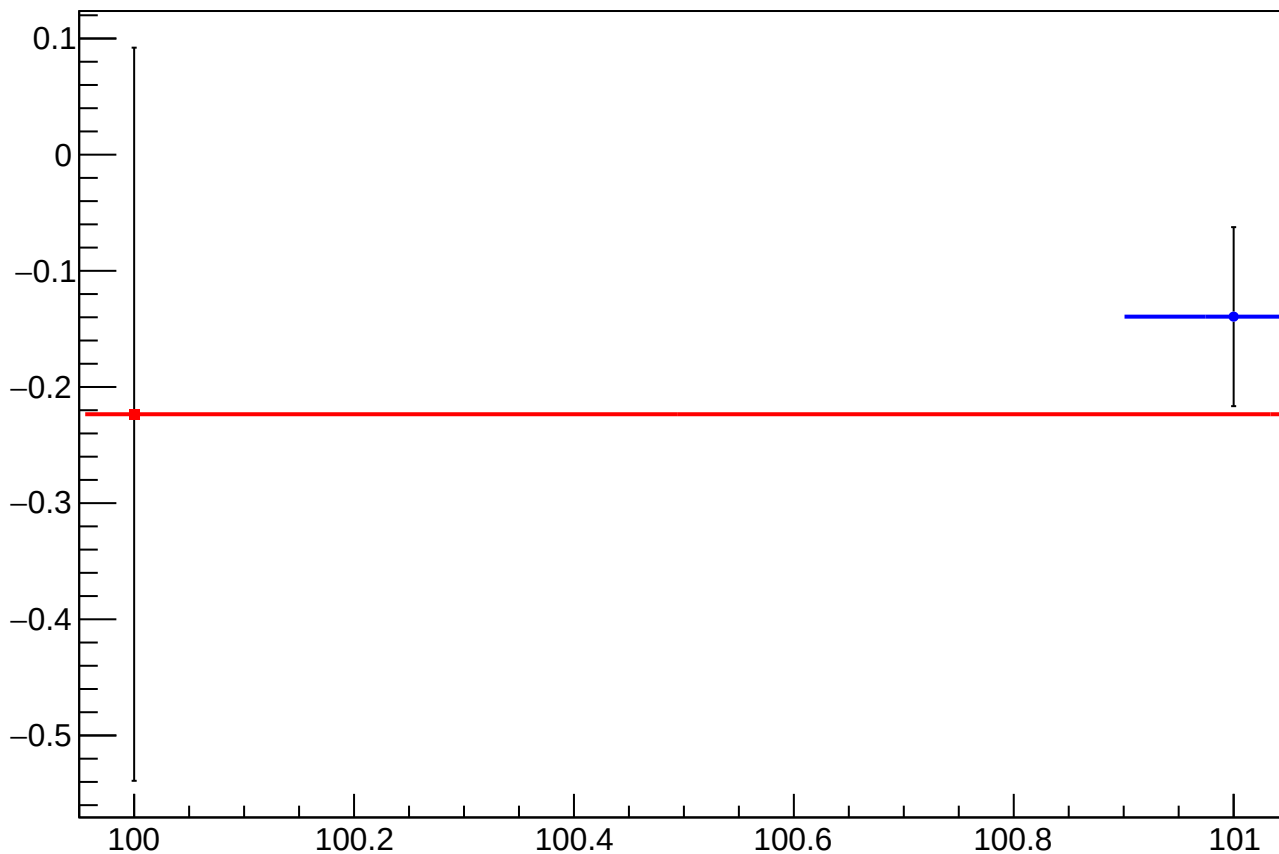
Right: 63.239 $\pm$ 0.053  $\chi^2$ /NDF: 9451.7/1

In: 61.983 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.239 $\pm$ 0.053  $\chi^2$ /NDF: 9451.7/1

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.139+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.223+/-0.316  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

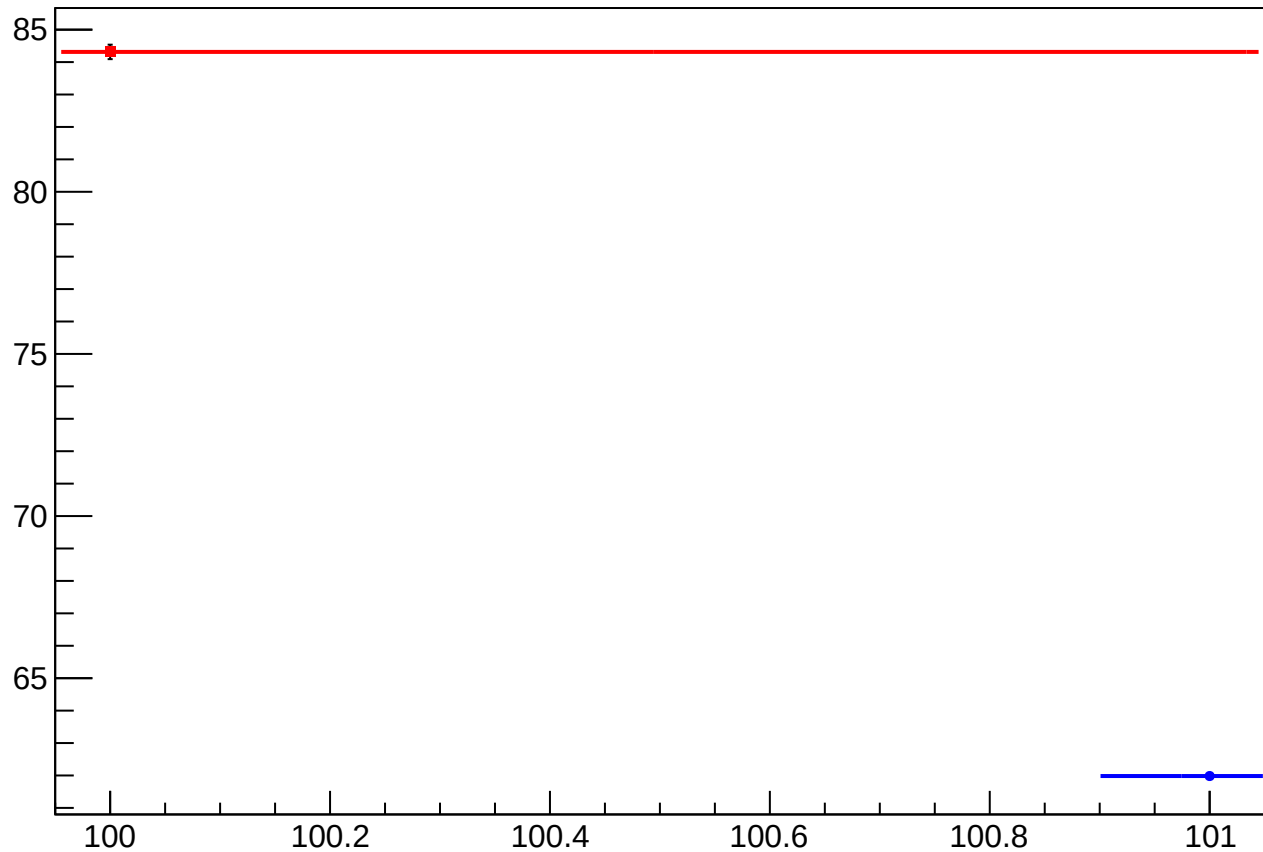
Right: -0.144+/-0.075  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.139+/-0.077  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.144+/-0.075  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_15\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 61.983 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 84.314 $\pm$ 0.223  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 63.239 $\pm$ 0.053  $\chi^2$ /NDF: 9451.7/1

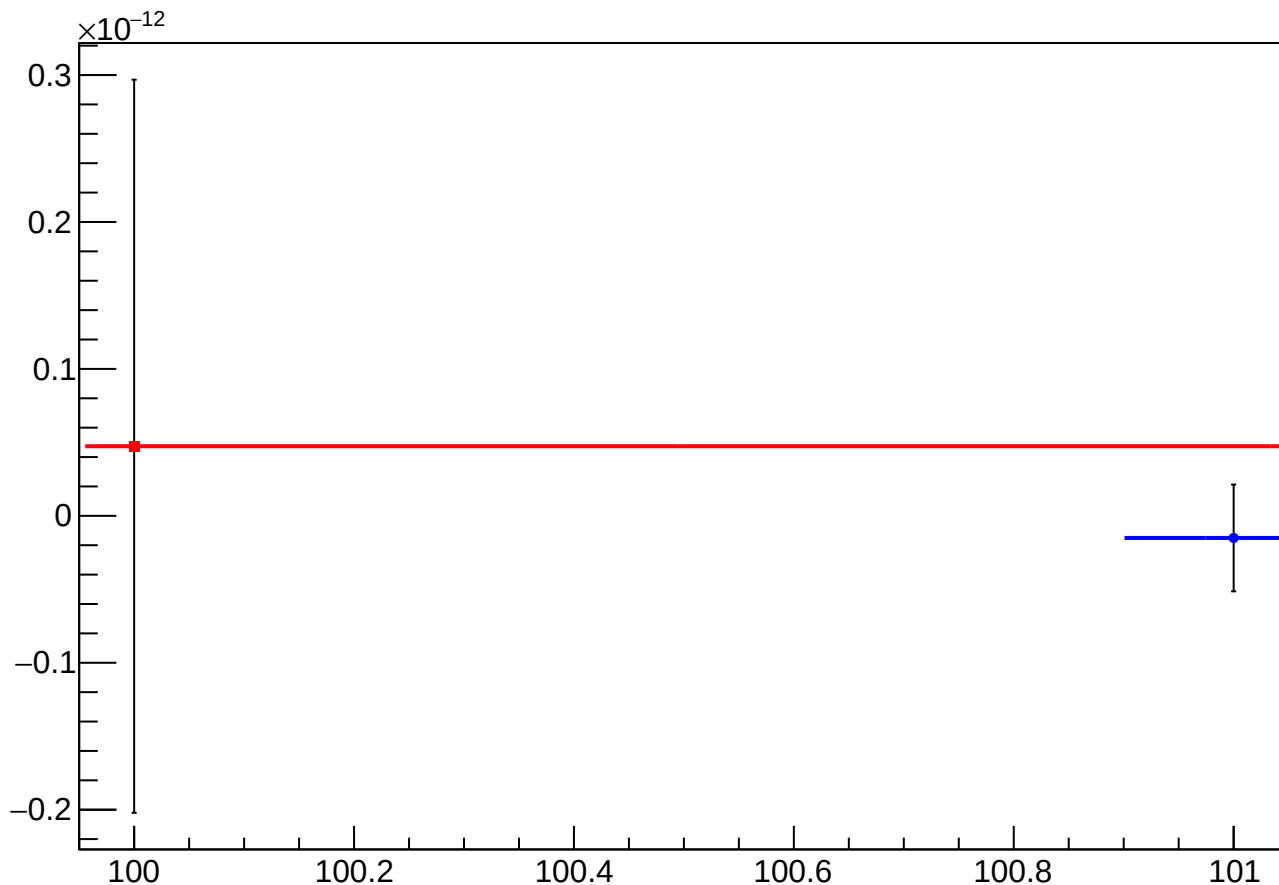
In: 61.983 $\pm$ 0.054  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.239 $\pm$ 0.053  $\chi^2$ /NDF: 9451.7/1



asym\_sam\_15\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

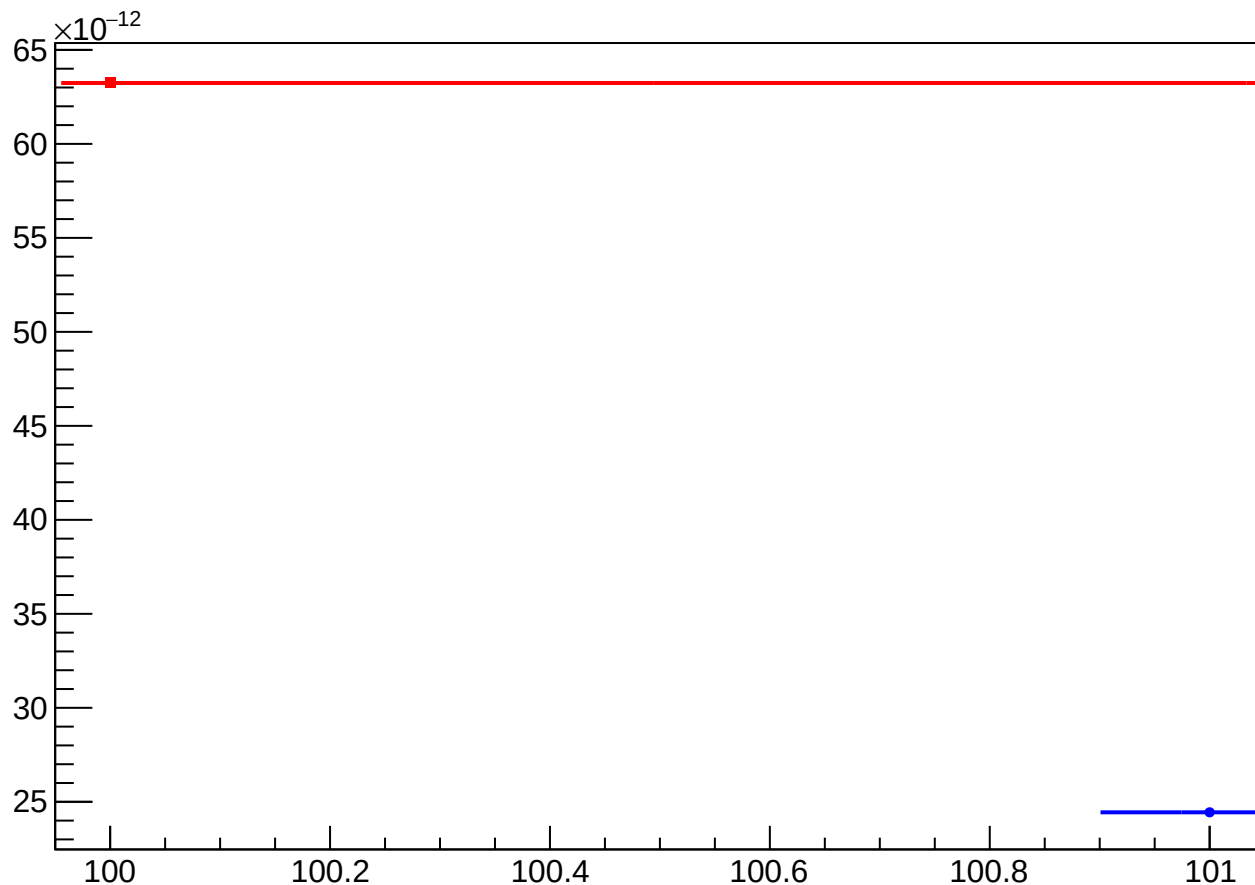
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_15\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

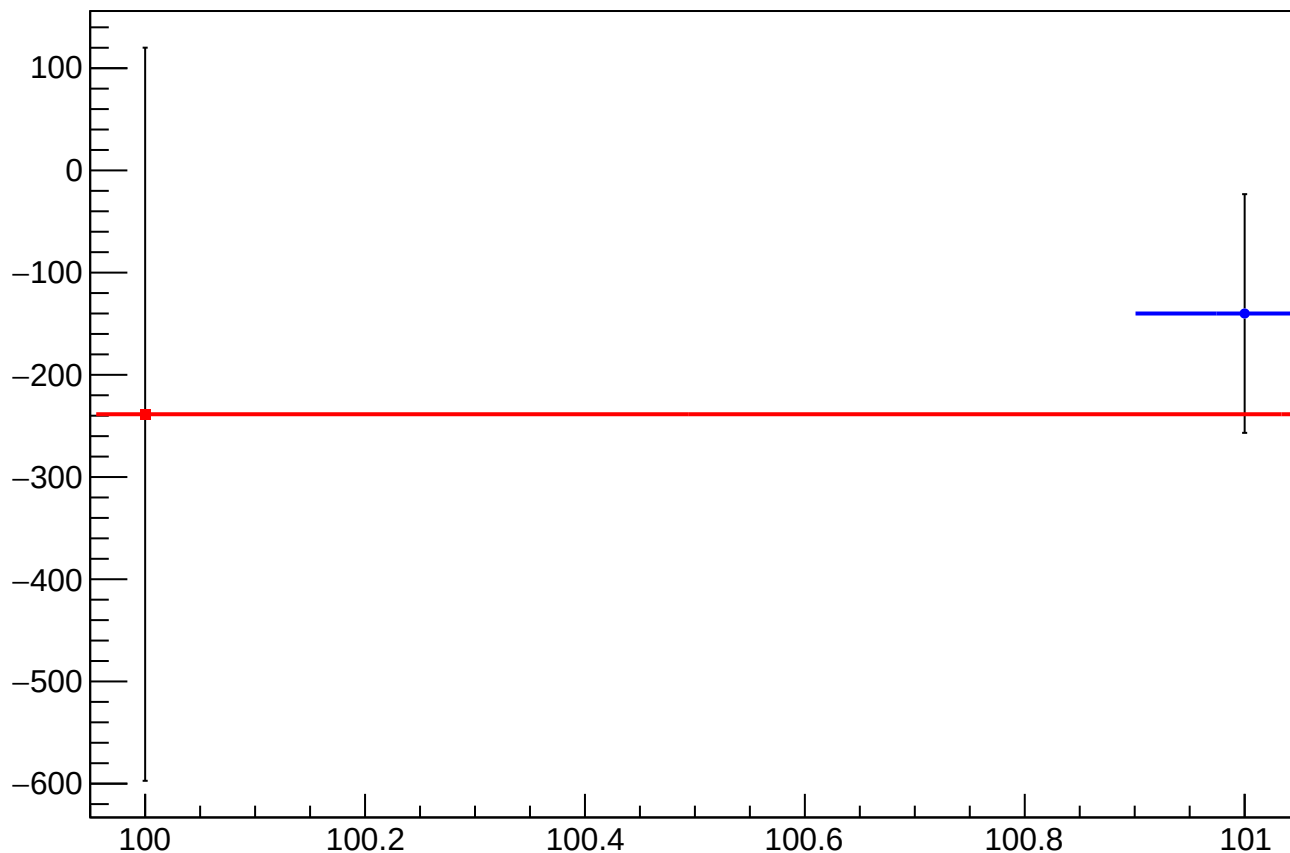
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 47369.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 47369.0/1

reg\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -140.009+/-116.769  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -238.558+/-358.645  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

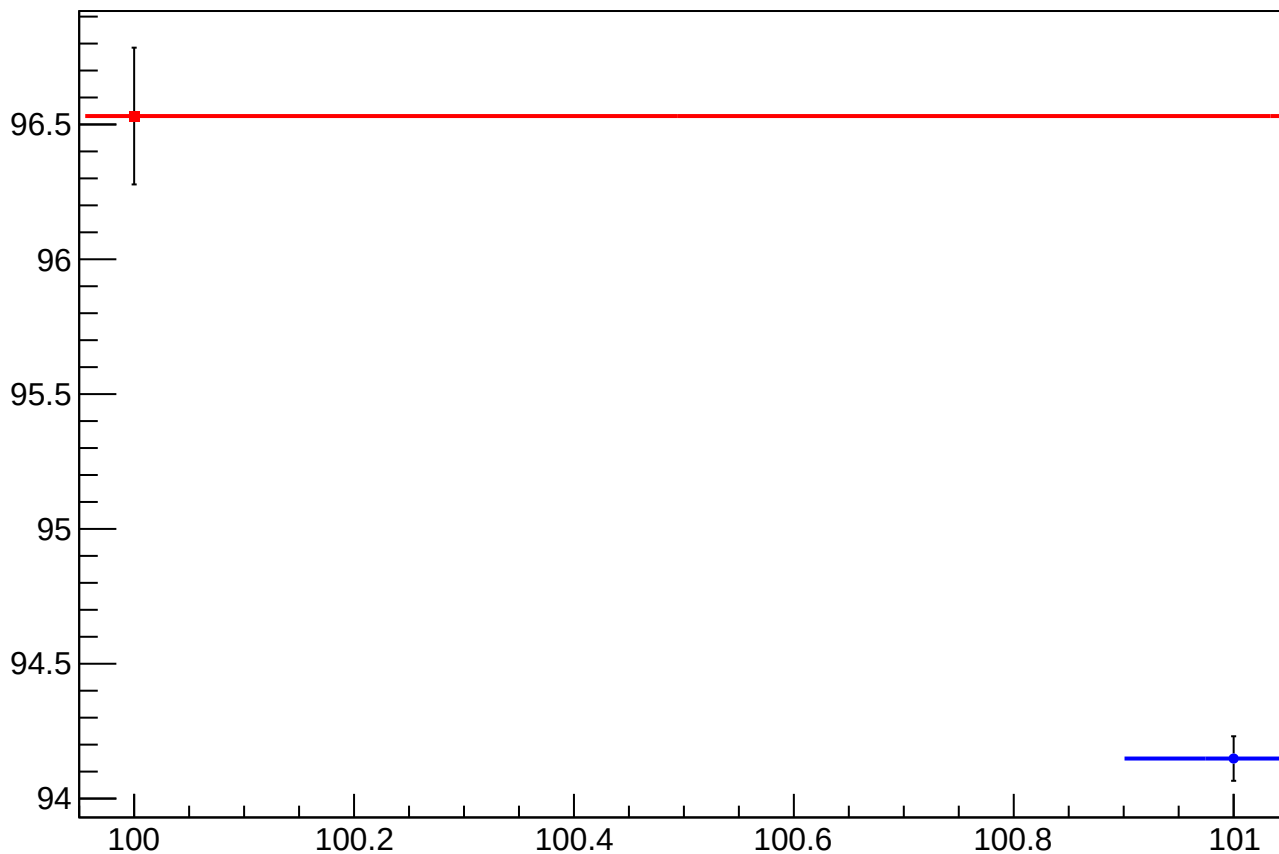
Right: -149.455+/-111.032  $\chi^2/\text{NDF}$ : 0.1/1

In: -140.009+/-116.769  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -149.455+/-111.032  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 94.148 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.531 $\pm$ 0.254  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

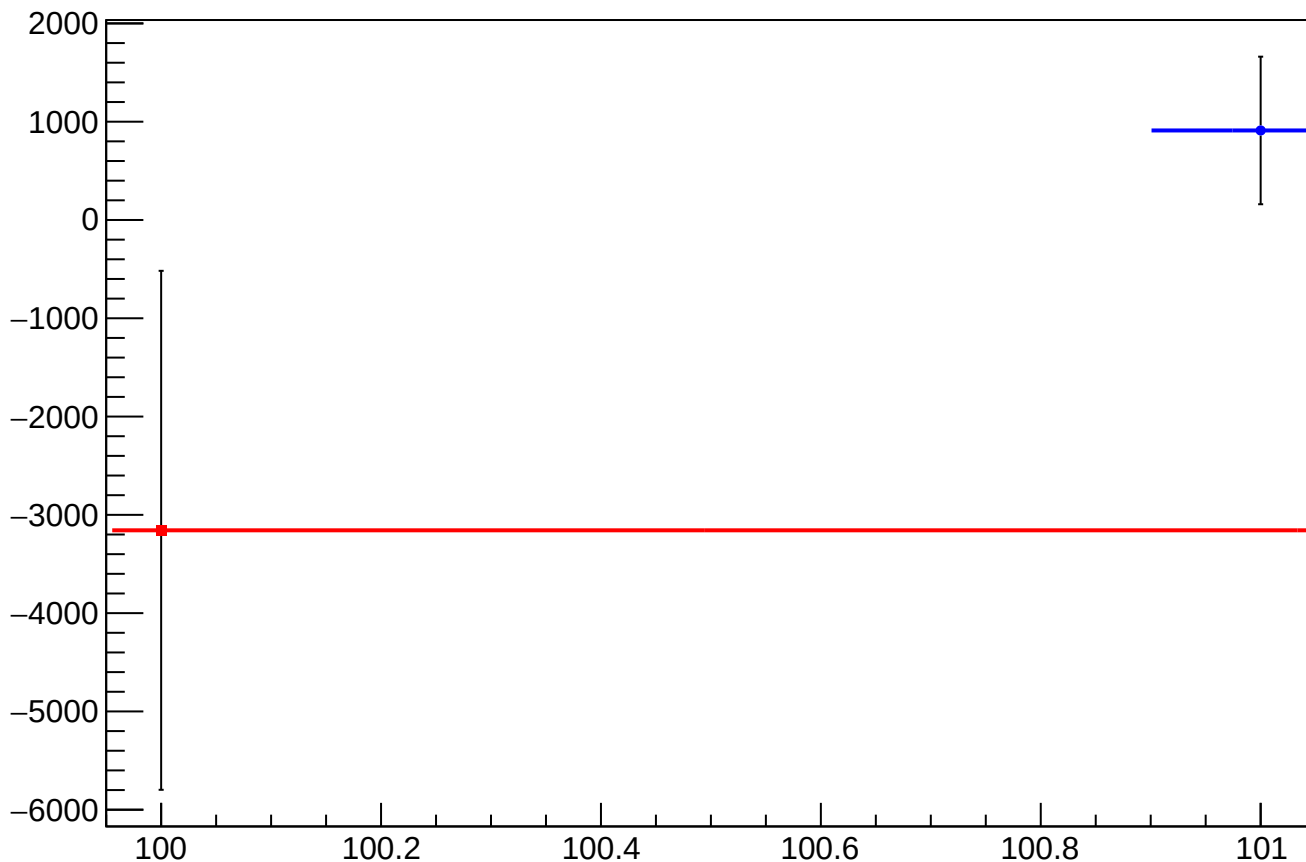
Right: 94.377 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 79.8/1

In: 94.148 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.377 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 79.8/1

asym\_sam\_37\_26\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 910.859+/-750.696  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3157.341+/-2639.999  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

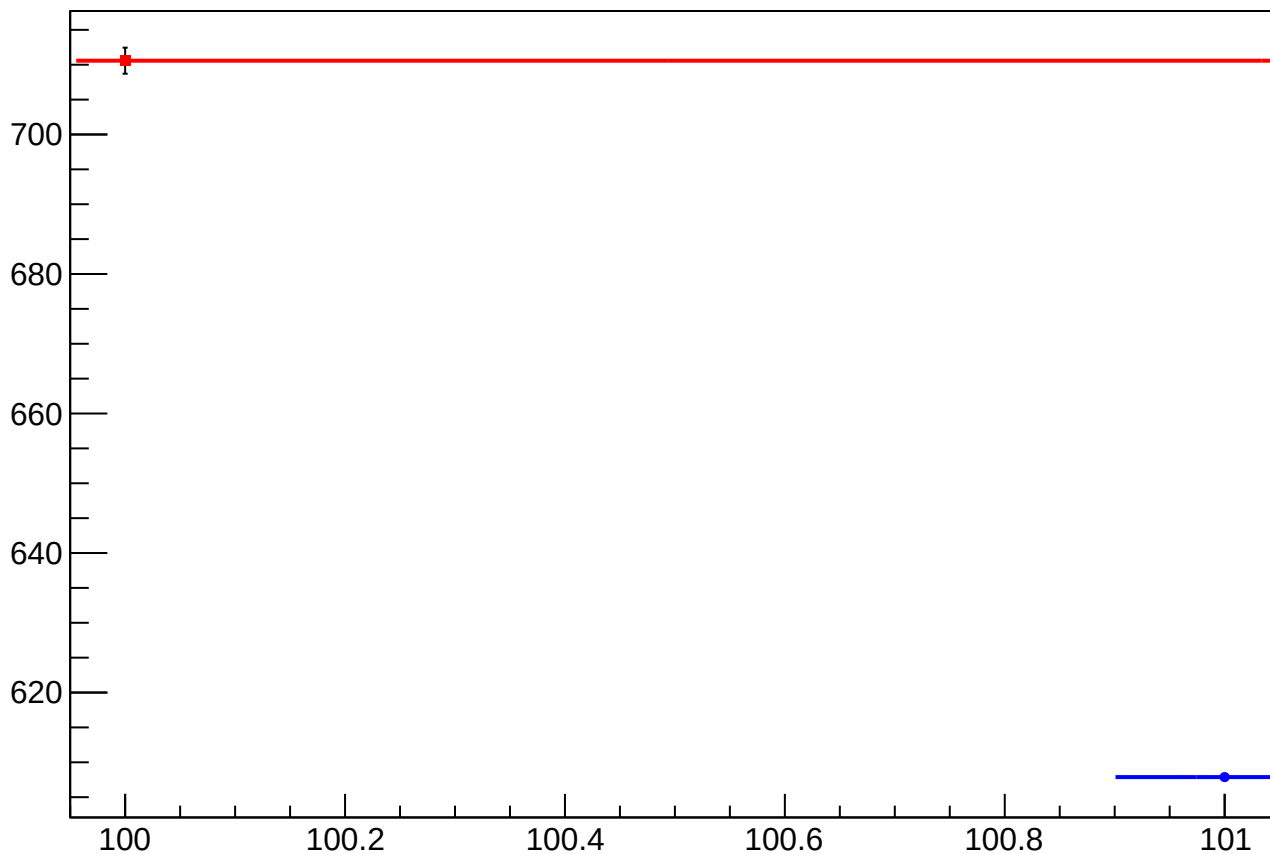
Right: 606.522+/-722.071  $\chi^2/\text{NDF}$ : 2.2/1

In: 910.859+/-750.696  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 606.522+/-722.071  $\chi^2/\text{NDF}$ : 2.2/1

asym\_sam\_37\_26\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 607.880 $\pm$ 0.531  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 710.577 $\pm$ 1.867  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

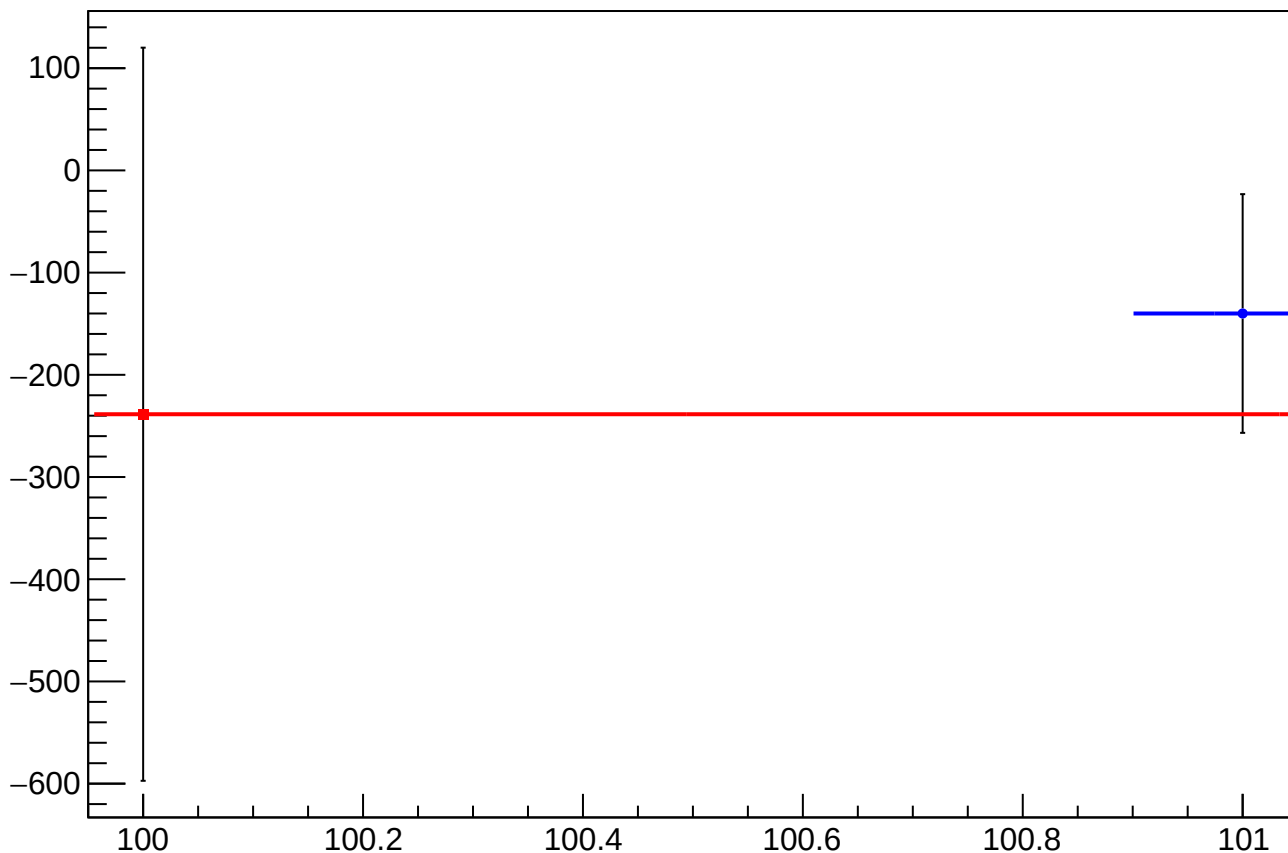
Right: 615.562 $\pm$ 0.511  $\chi^2$ /NDF: 2800.1/1

In: 607.880 $\pm$ 0.531  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 615.562 $\pm$ 0.511  $\chi^2$ /NDF: 2800.1/1

cor\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -140.007 $\pm$ 116.769  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -238.567 $\pm$ 358.645  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

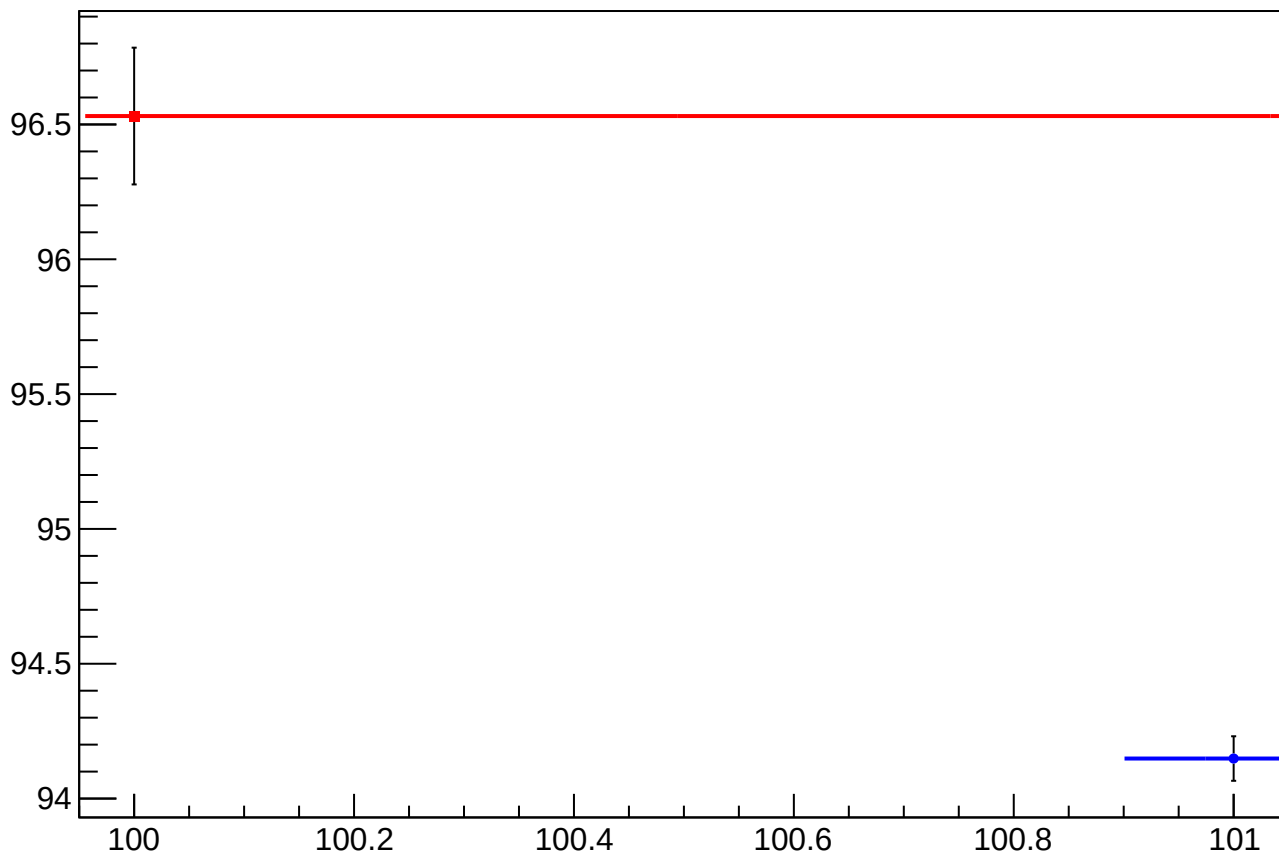
Right: -149.453 $\pm$ 111.032  $\chi^2$ /NDF: 0.1/1

In: -140.007 $\pm$ 116.769  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -149.453 $\pm$ 111.032  $\chi^2$ /NDF: 0.1/1

cor\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 94.148 $\pm$ 0.083  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 96.531 $\pm$ 0.254  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 94.377 $\pm$ 0.079  $\chi^2$ /NDF: 79.8/1

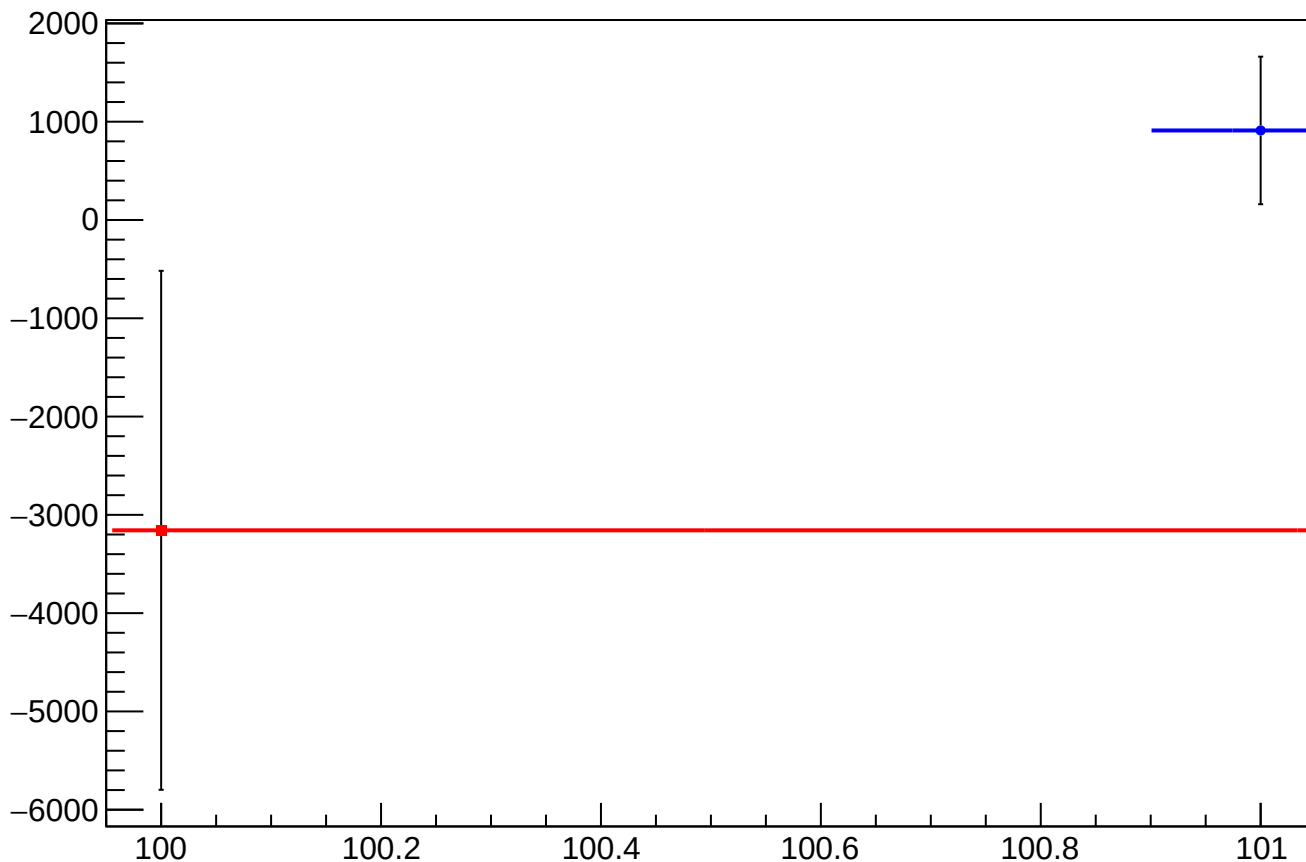
In: 94.148 $\pm$ 0.083  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 94.377 $\pm$ 0.079  $\chi^2$ /NDF: 79.8/1



asym\_sam\_37\_26\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 910.837 $\pm$ 750.698  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3157.332 $\pm$ 2640.003  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

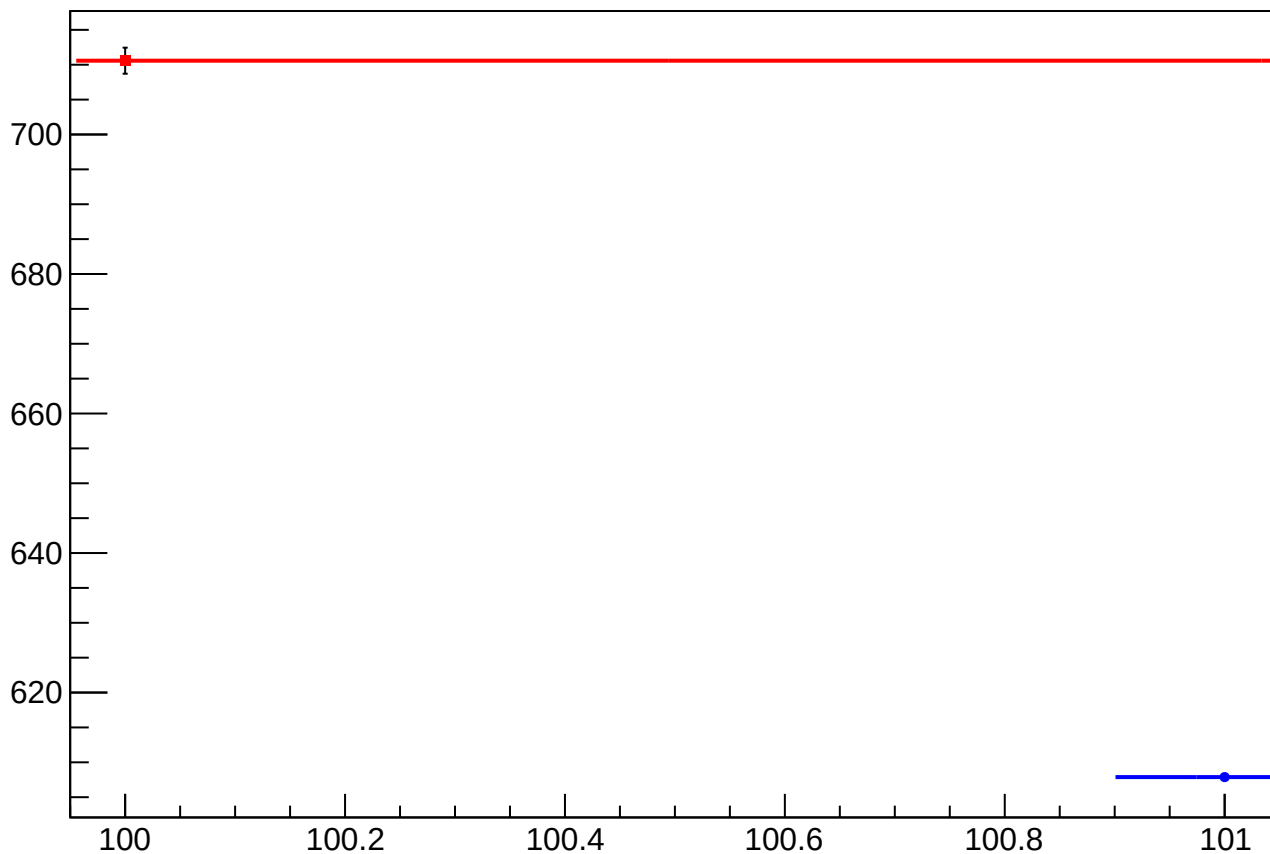
Right: 606.501 $\pm$ 722.073  $\chi^2$ /NDF: 2.2/1

In: 910.837 $\pm$ 750.698  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 606.501 $\pm$ 722.073  $\chi^2$ /NDF: 2.2/1

asym\_sam\_37\_26\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 607.881 $\pm$ 0.531  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 710.578 $\pm$ 1.867  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

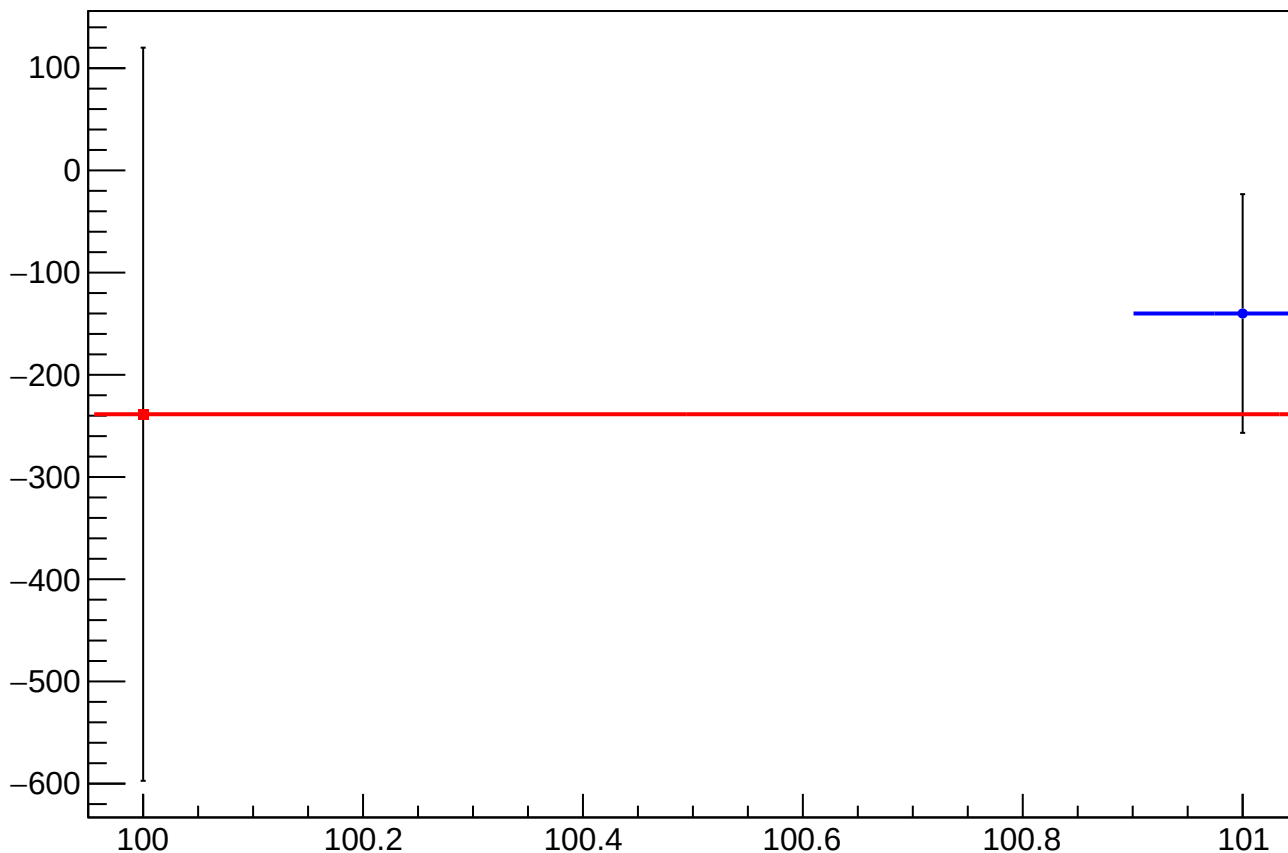
Right: 615.563 $\pm$ 0.511  $\chi^2$ /NDF: 2800.1/1

In: 607.881 $\pm$ 0.531  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 615.563 $\pm$ 0.511  $\chi^2$ /NDF: 2800.1/1

eigen\_cor\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -140.007 $\pm$ 116.769  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -238.567 $\pm$ 358.645  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

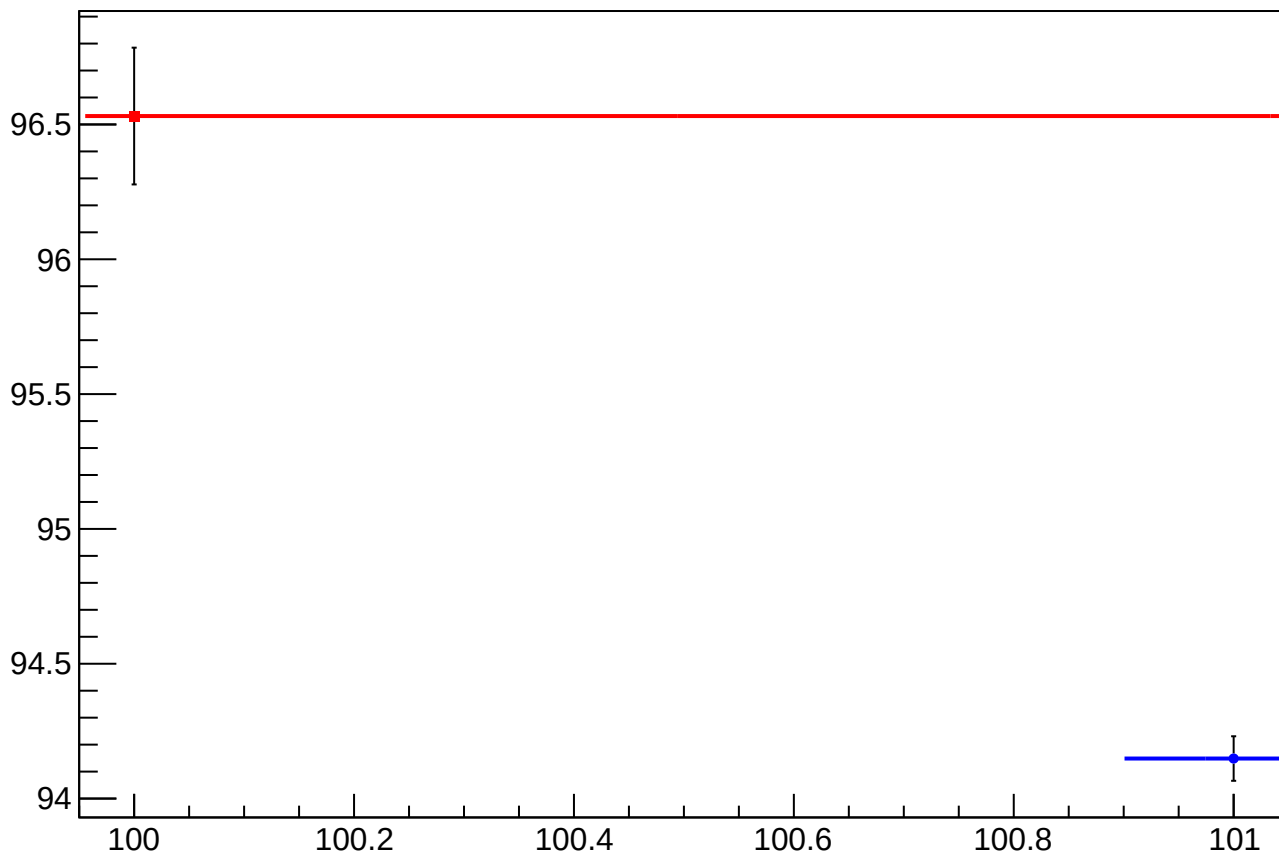
Right: -149.453 $\pm$ 111.032  $\chi^2$ /NDF: 0.1/1

In: -140.007 $\pm$ 116.769  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -149.453 $\pm$ 111.032  $\chi^2$ /NDF: 0.1/1

eigen\_cor\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 94.148+/-0.083  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 96.531+/-0.254  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

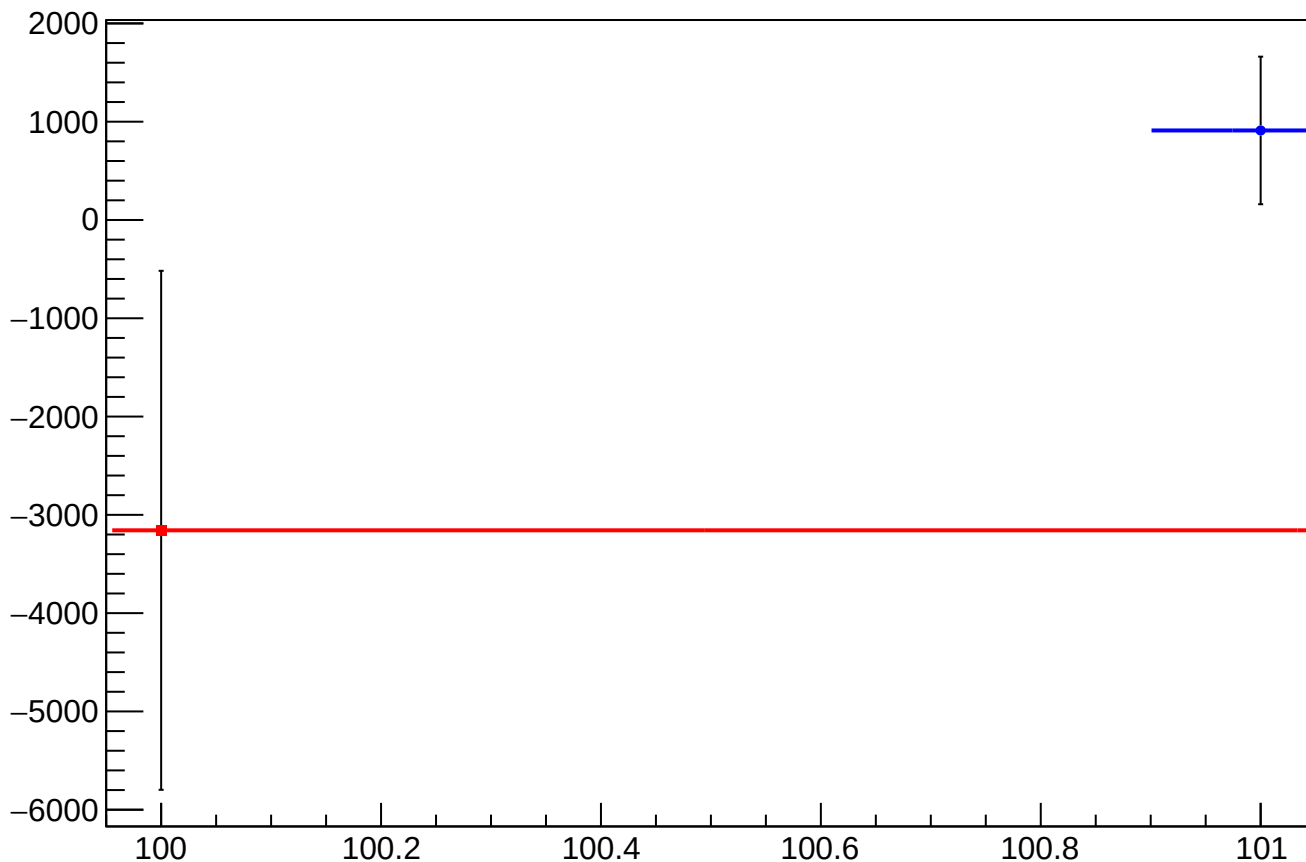
Right: 94.377+/-0.079  $\chi^2/\text{NDF}$ : 79.8/1

In: 94.148+/-0.083  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 94.377+/-0.079  $\chi^2/\text{NDF}$ : 79.8/1

asym\_sam\_37\_26\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 910.837+/-750.698  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3157.332+/-2640.003  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

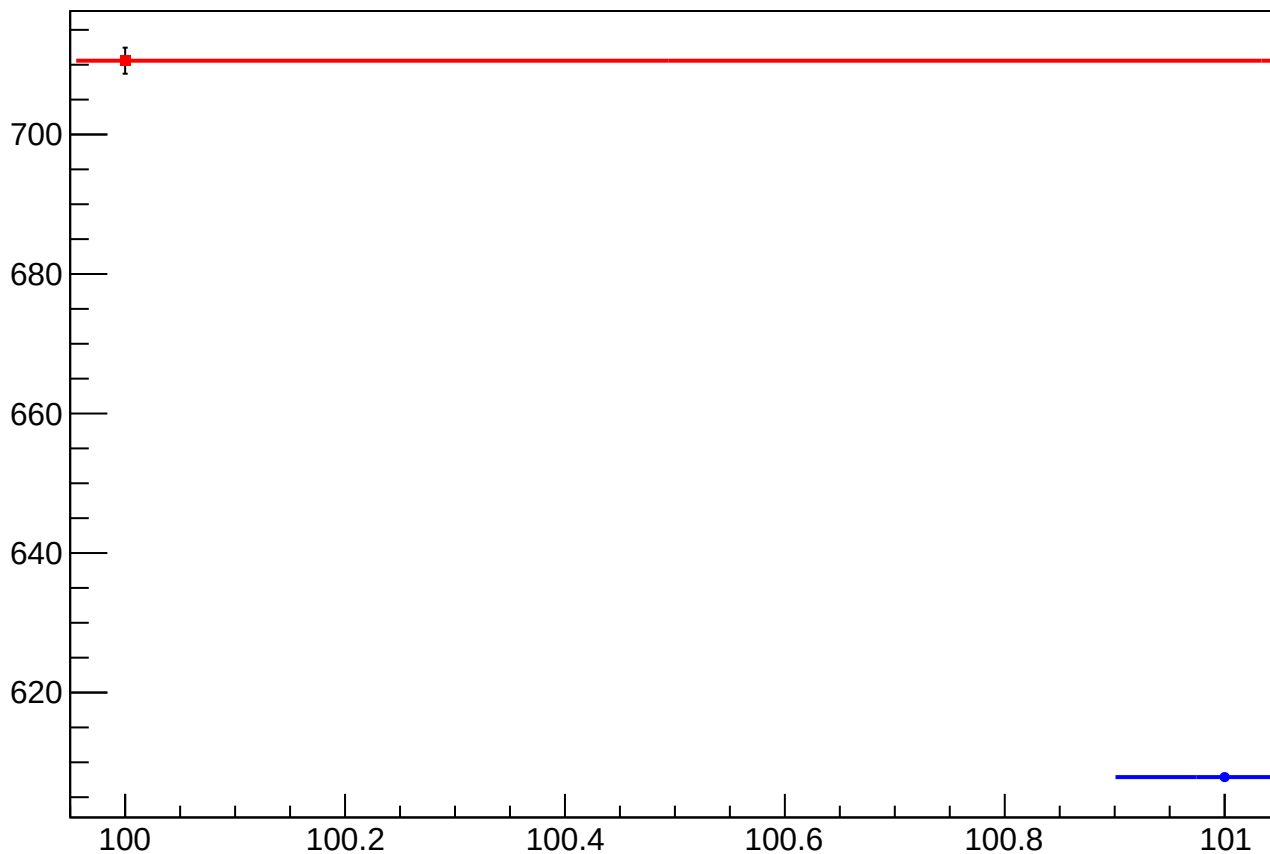
Right: 606.501+/-722.073  $\chi^2/\text{NDF}$ : 2.2/1

In: 910.837+/-750.698  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 606.501+/-722.073  $\chi^2/\text{NDF}$ : 2.2/1

asym\_sam\_37\_26\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 607.881 $\pm$ 0.531  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 710.578 $\pm$ 1.867  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

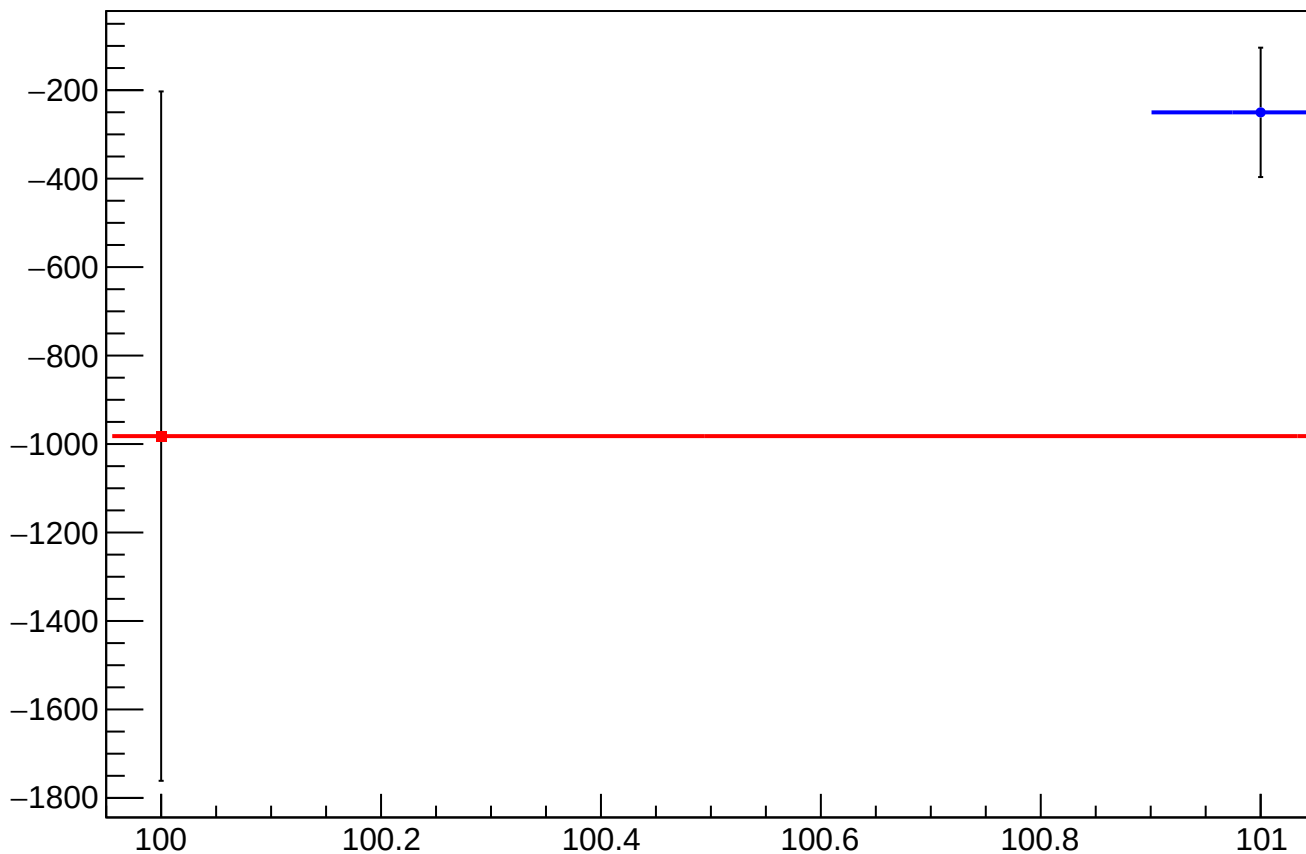
Right: 615.563 $\pm$ 0.511  $\chi^2$ /NDF: 2800.1/1

In: 607.881 $\pm$ 0.531  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 615.563 $\pm$ 0.511  $\chi^2$ /NDF: 2800.1/1

dit\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -250.216+/-146.248  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -982.089+/-779.195  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

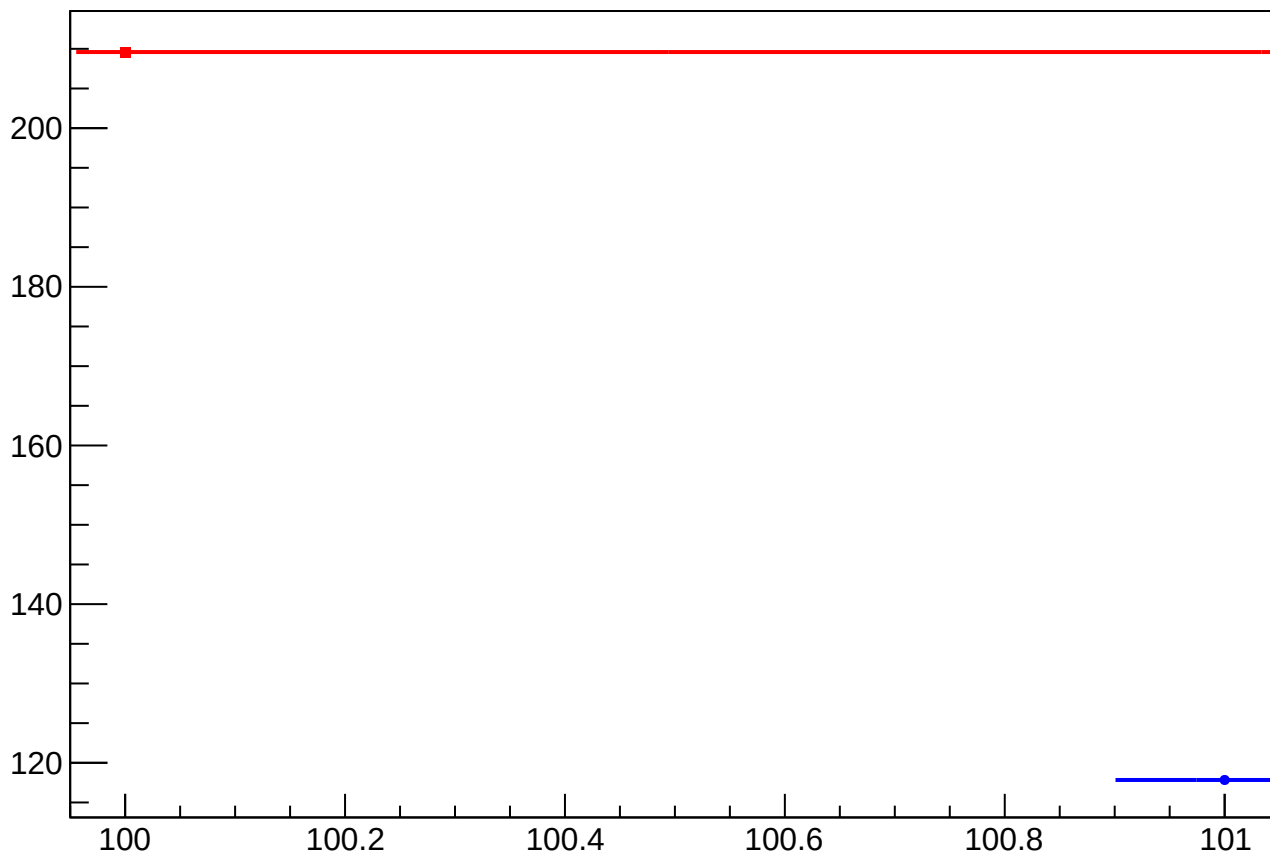
Right: -275.121+/-143.738  $\chi^2/\text{NDF}$ : 0.9/1

In: -250.216+/-146.248  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -275.121+/-143.738  $\chi^2/\text{NDF}$ : 0.9/1

dit\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 117.835 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 209.595 $\pm$ 0.551  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 120.957 $\pm$ 0.102  $\chi^2$ /NDF: 26792.0/1

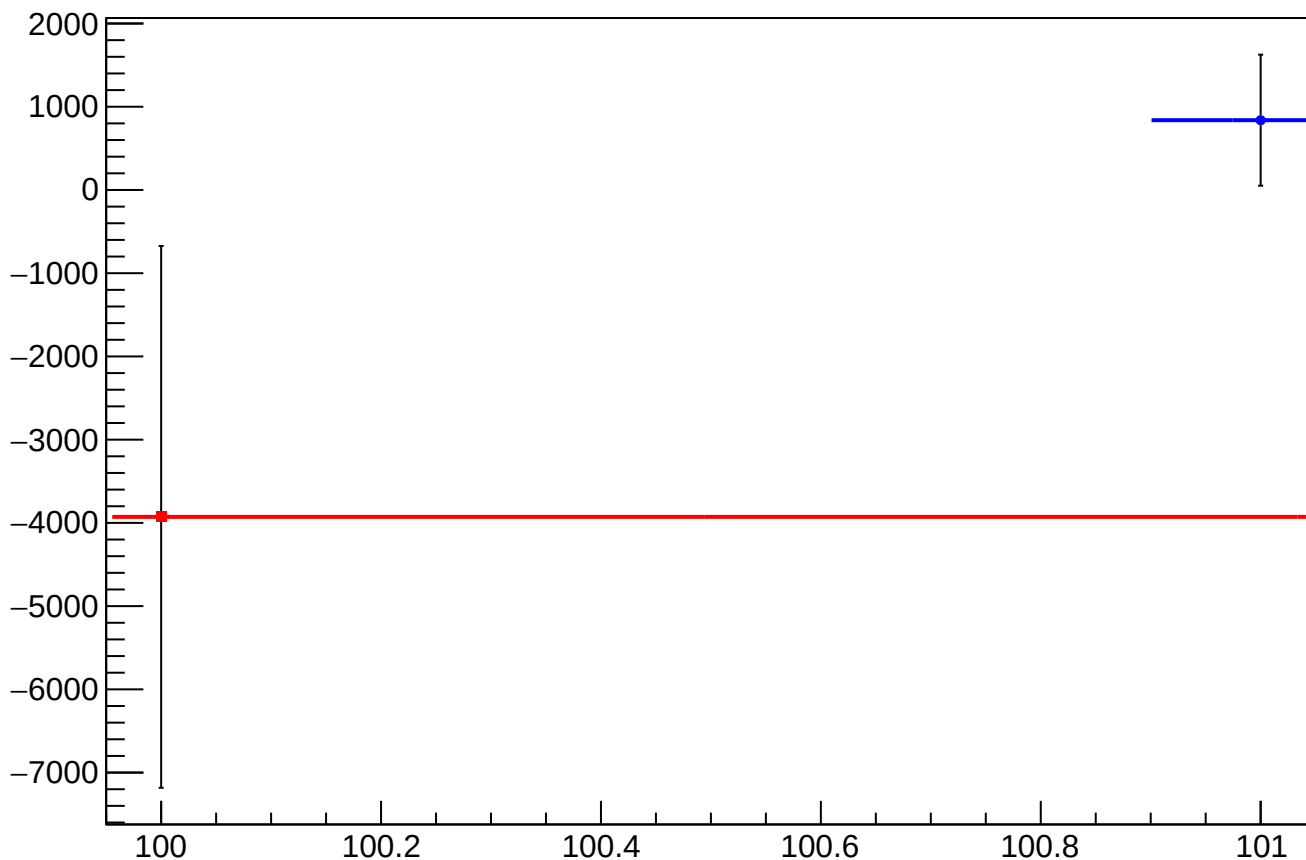
In: 117.835 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.957 $\pm$ 0.102  $\chi^2$ /NDF: 26792.0/1



asym\_sam\_37\_26\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 838.452 $\pm$ 787.134  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -3927.732 $\pm$ 3255.072  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

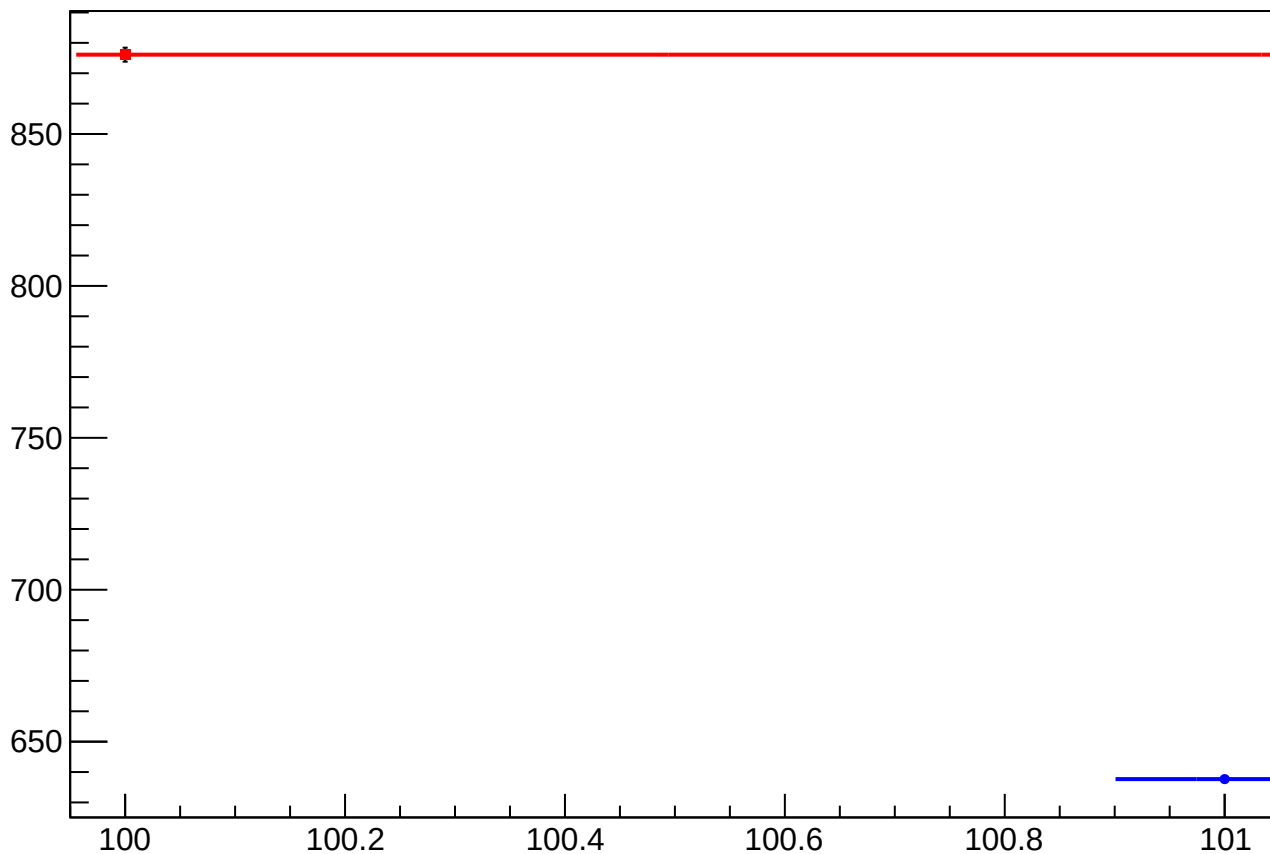
Right: 575.143 $\pm$ 765.082  $\chi^2$ /NDF: 2.0/1

In: 838.452 $\pm$ 787.134  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 575.143 $\pm$ 765.082  $\chi^2$ /NDF: 2.0/1

asym\_sam\_37\_26\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 637.676 $\pm$ 0.557  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 876.113 $\pm$ 2.302  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ :0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

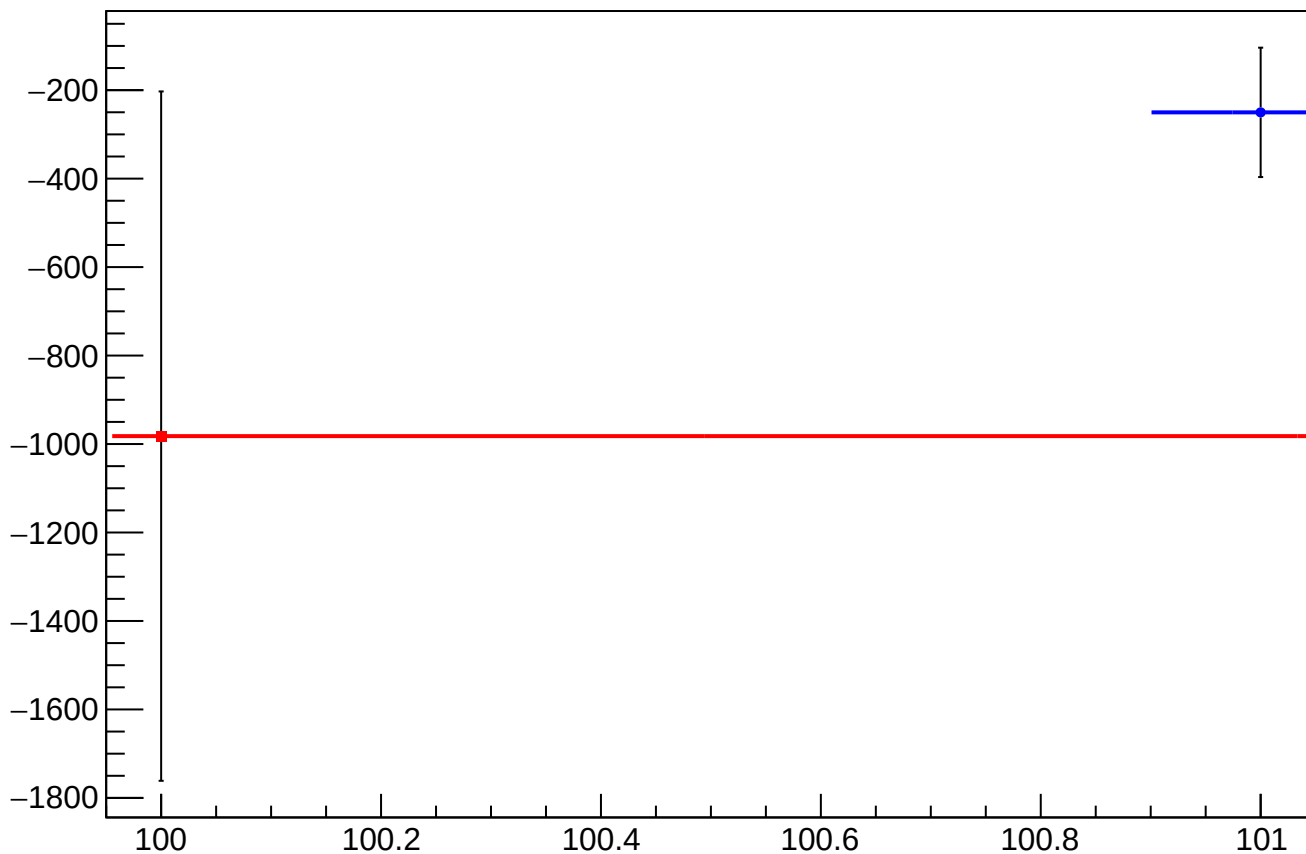
Right: 650.848 $\pm$ 0.541  $\chi^2/\text{NDF}$ : 10138.6/1

In: 637.676 $\pm$ 0.557  $\chi^2/\text{NDF}$ :0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ :0.0/0

All: 650.848 $\pm$ 0.541  $\chi^2/\text{NDF}$ : 10138.6/1

eigen\_dit\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -250.208+/-146.248  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -982.115+/-779.204  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

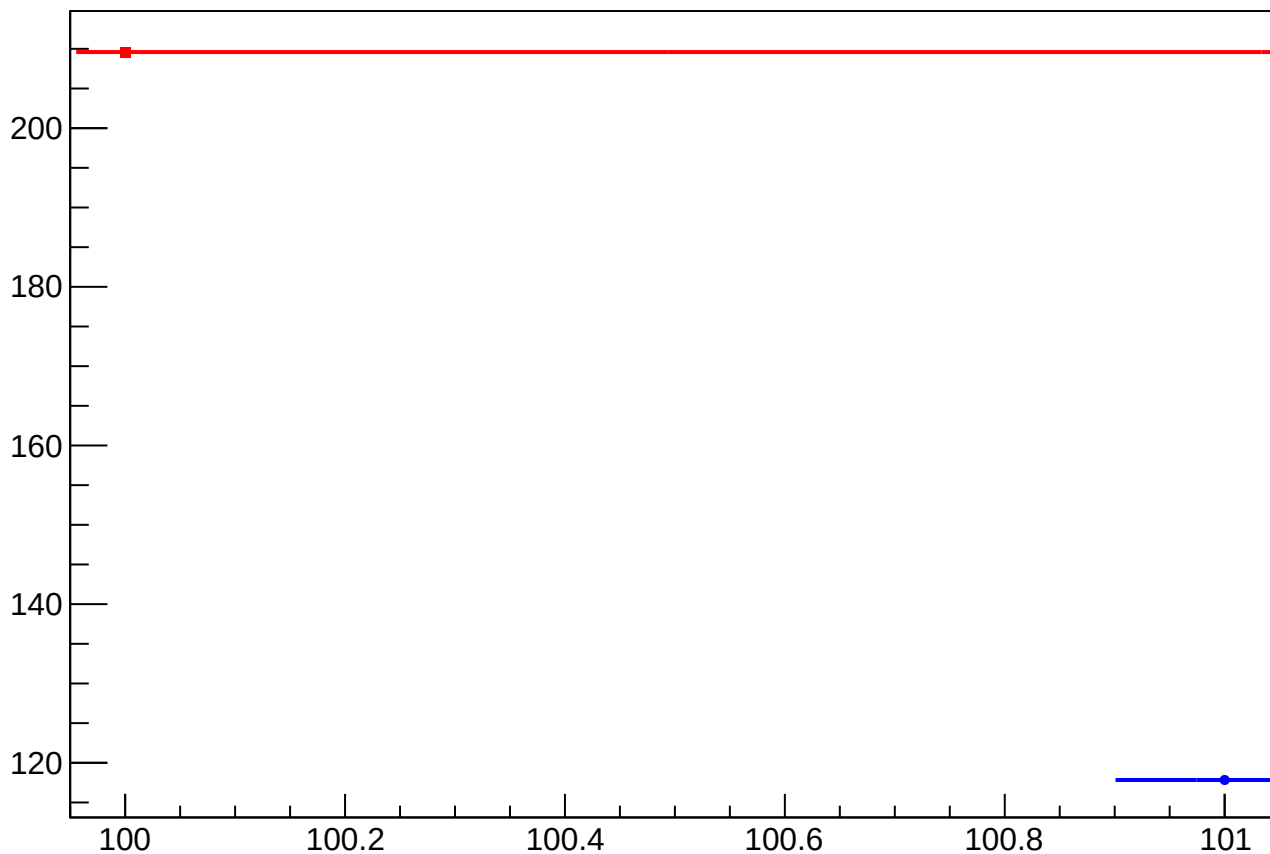
Right: -275.114+/-143.738  $\chi^2/\text{NDF}$ : 0.9/1

In: -250.208+/-146.248  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -275.114+/-143.738  $\chi^2/\text{NDF}$ : 0.9/1

eigen\_dit\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 117.835 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 209.597 $\pm$ 0.551  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

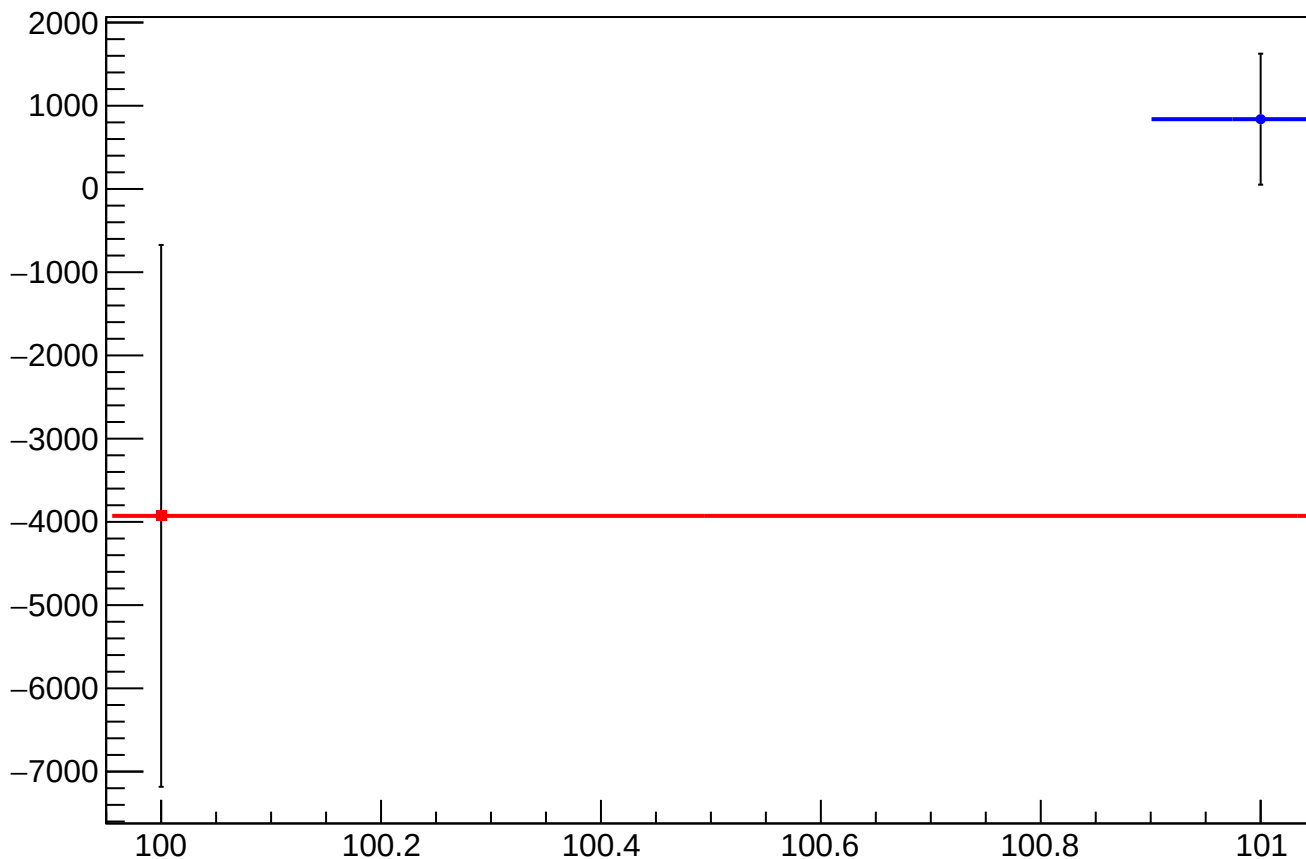
Right: 120.958 $\pm$ 0.102  $\chi^2$ /NDF: 26792.8/1

In: 117.835 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 120.958 $\pm$ 0.102  $\chi^2$ /NDF: 26792.8/1

asym\_sam\_37\_26\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 838.458+/-787.135  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3927.758+/-3255.081  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

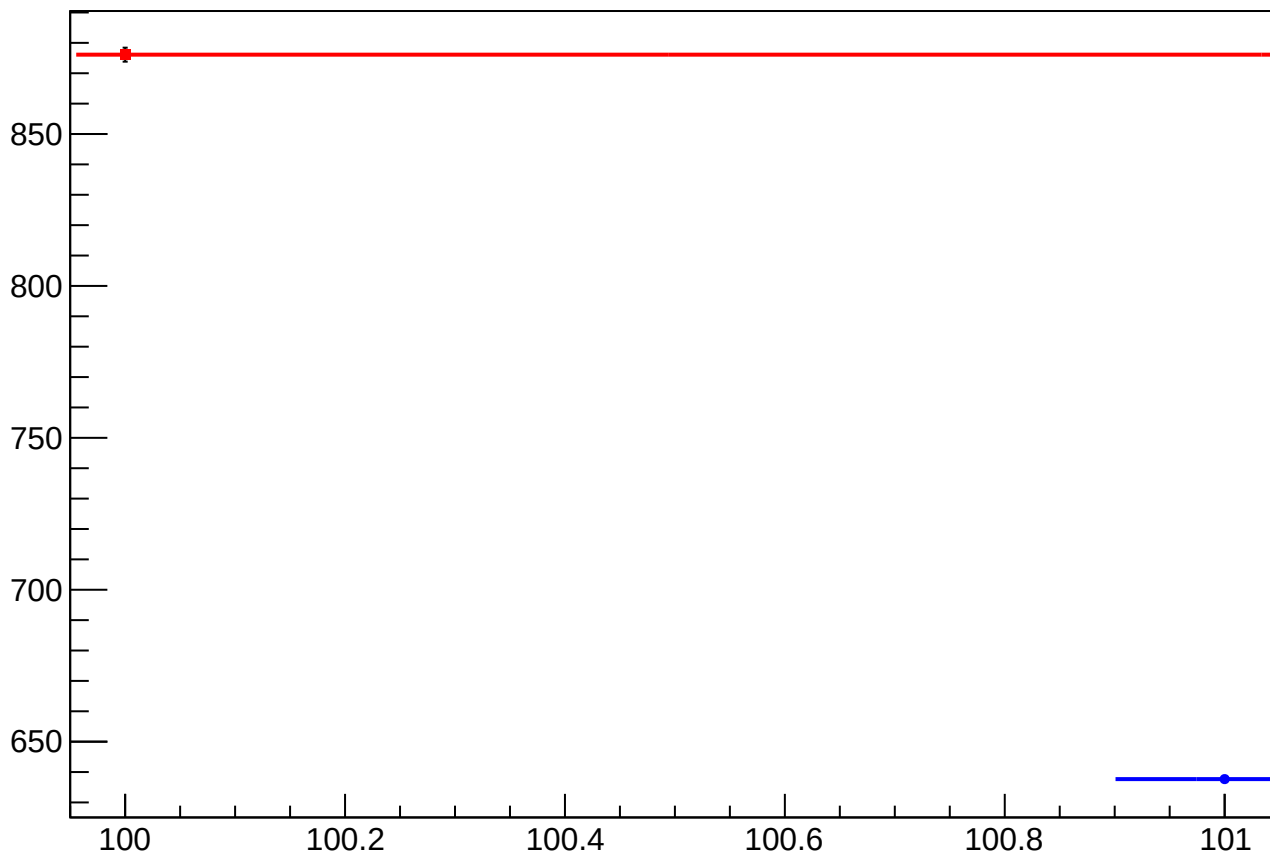
Right: 575.148+/-765.083  $\chi^2/\text{NDF}$ : 2.0/1

In: 838.458+/-787.135  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 575.148+/-765.083  $\chi^2/\text{NDF}$ : 2.0/1

asym\_sam\_37\_26\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 637.677 $\pm$ 0.557  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 876.116 $\pm$ 2.302  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

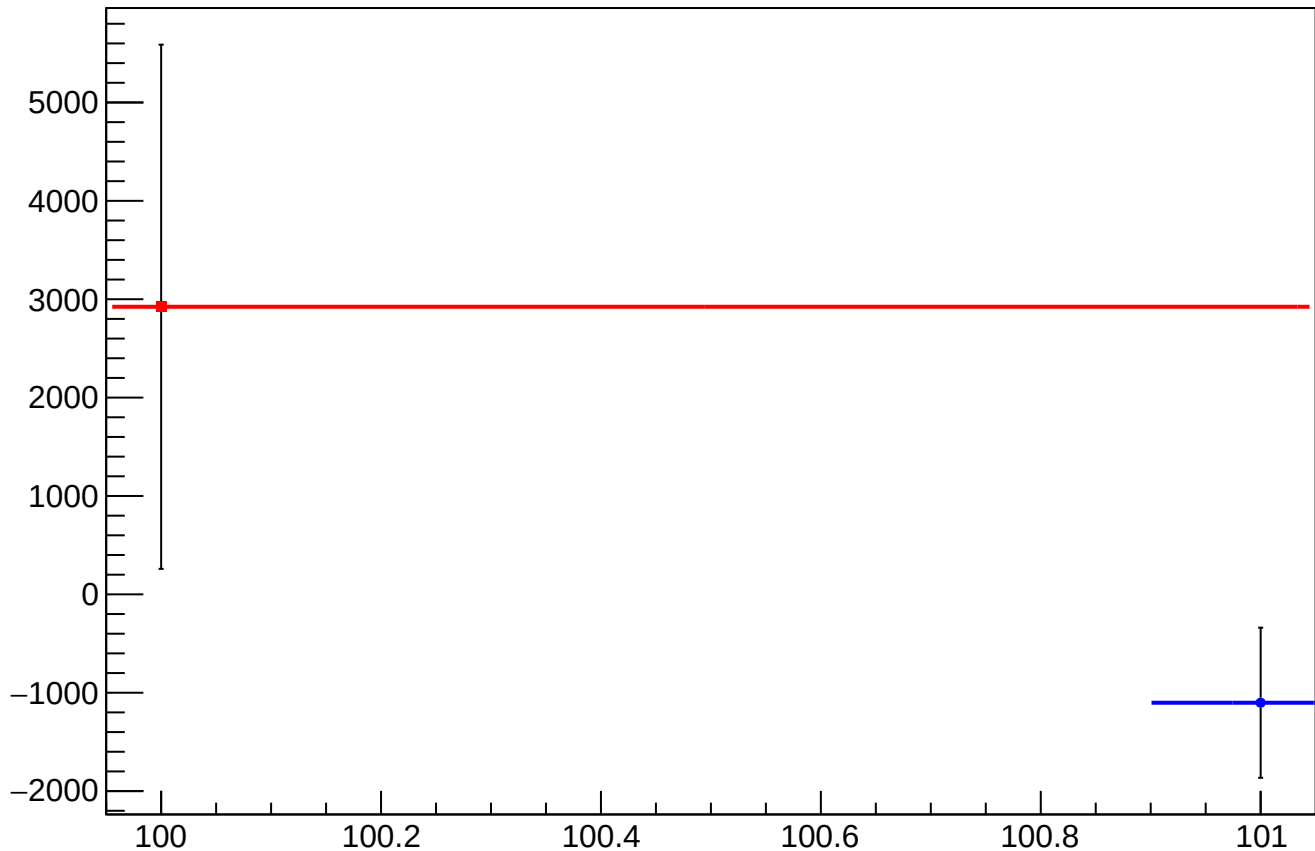
Right: 650.849 $\pm$ 0.541  $\chi^2$ /NDF: 10138.6/1

In: 637.677 $\pm$ 0.557  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 650.849 $\pm$ 0.541  $\chi^2$ /NDF: 10138.6/1

asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In: -1101.746+/-762.967  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2923.238+/-2664.263  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

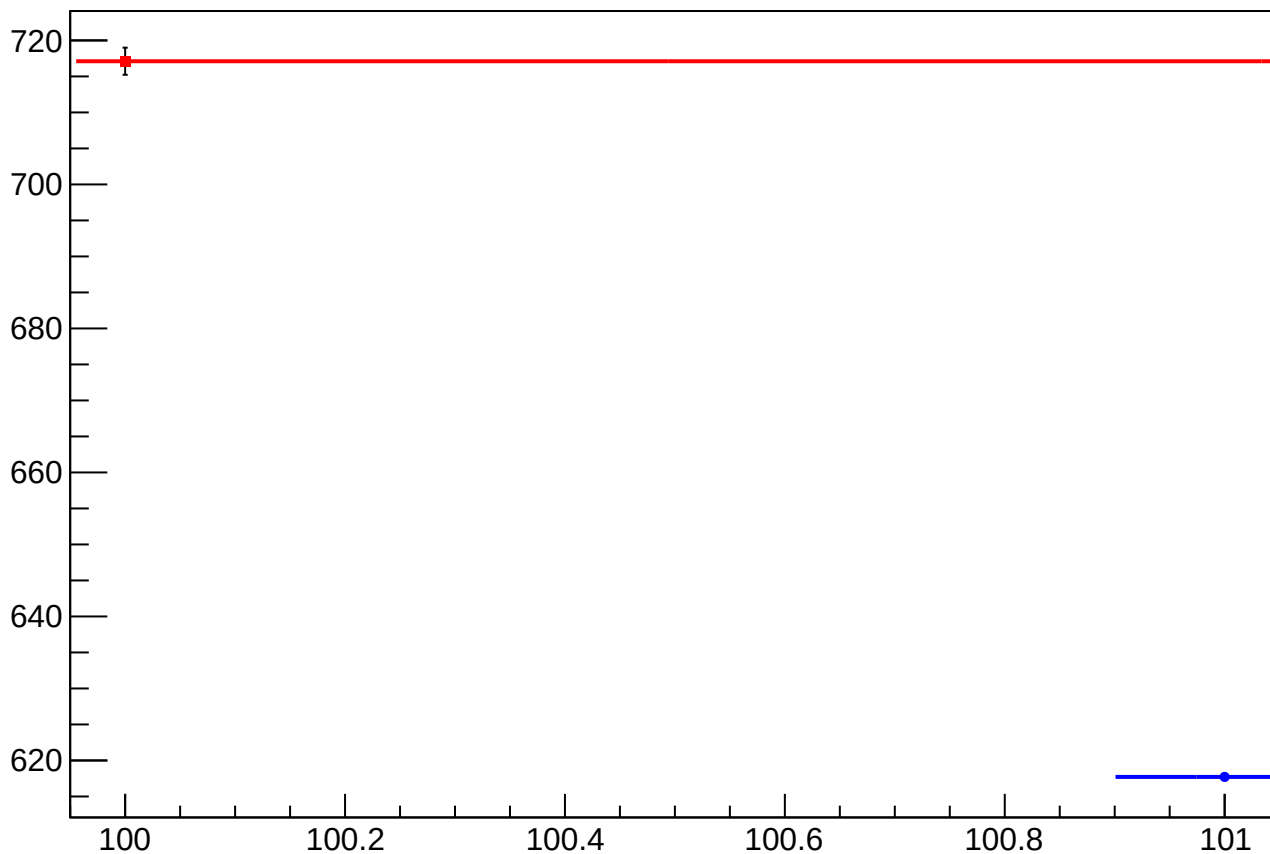
Right: -796.682+/-733.483  $\chi^2/\text{NDF}$ : 2.1/1

In: -1101.746+/-762.967  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -796.682+/-733.483  $\chi^2/\text{NDF}$ : 2.1/1

# asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 617.716 $\pm$ 0.539  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 717.109 $\pm$ 1.884  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 625.249 $\pm$ 0.519  $\chi^2$ /NDF: 2572.5/1

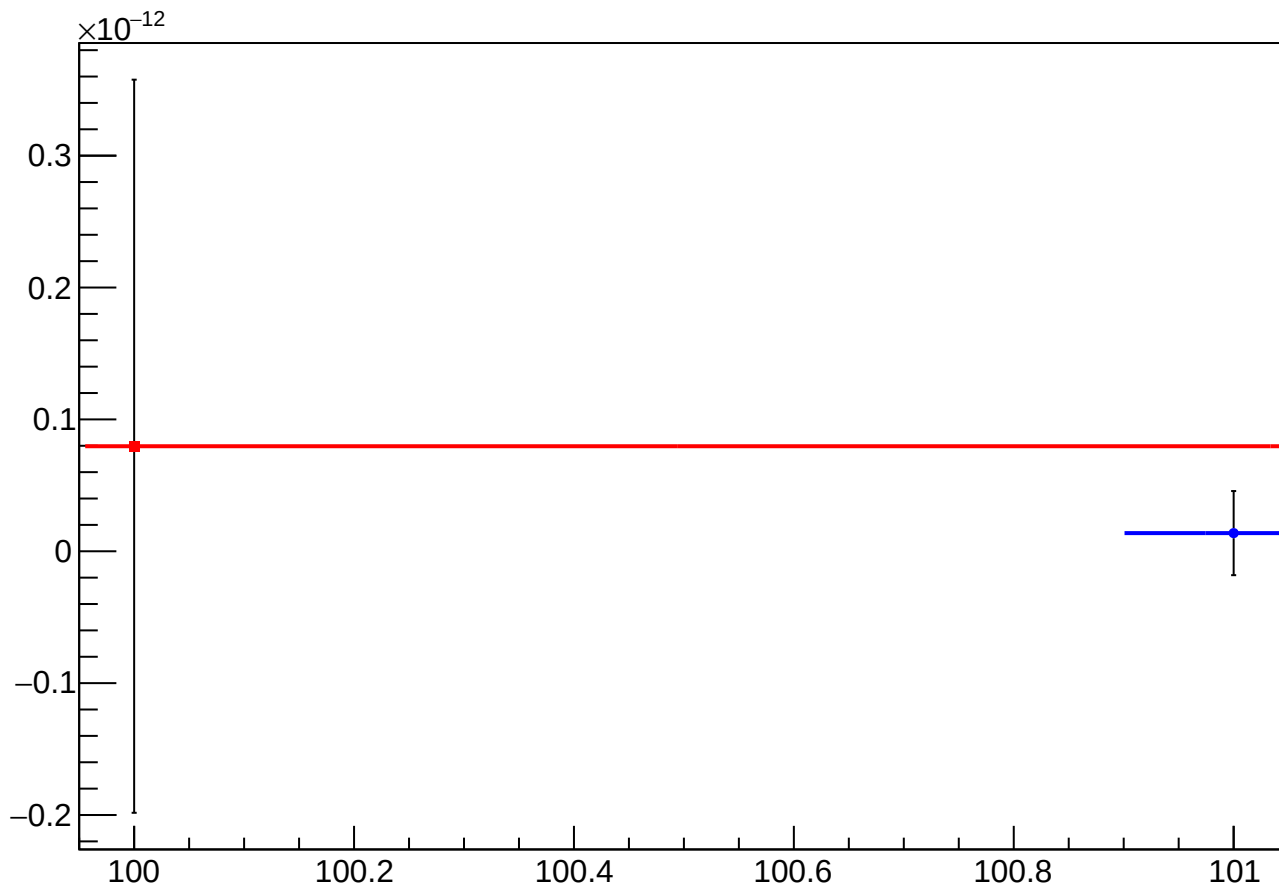
In: 617.716 $\pm$ 0.539  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 625.249 $\pm$ 0.519  $\chi^2$ /NDF: 2572.5/1



asym\_sam\_37\_26\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

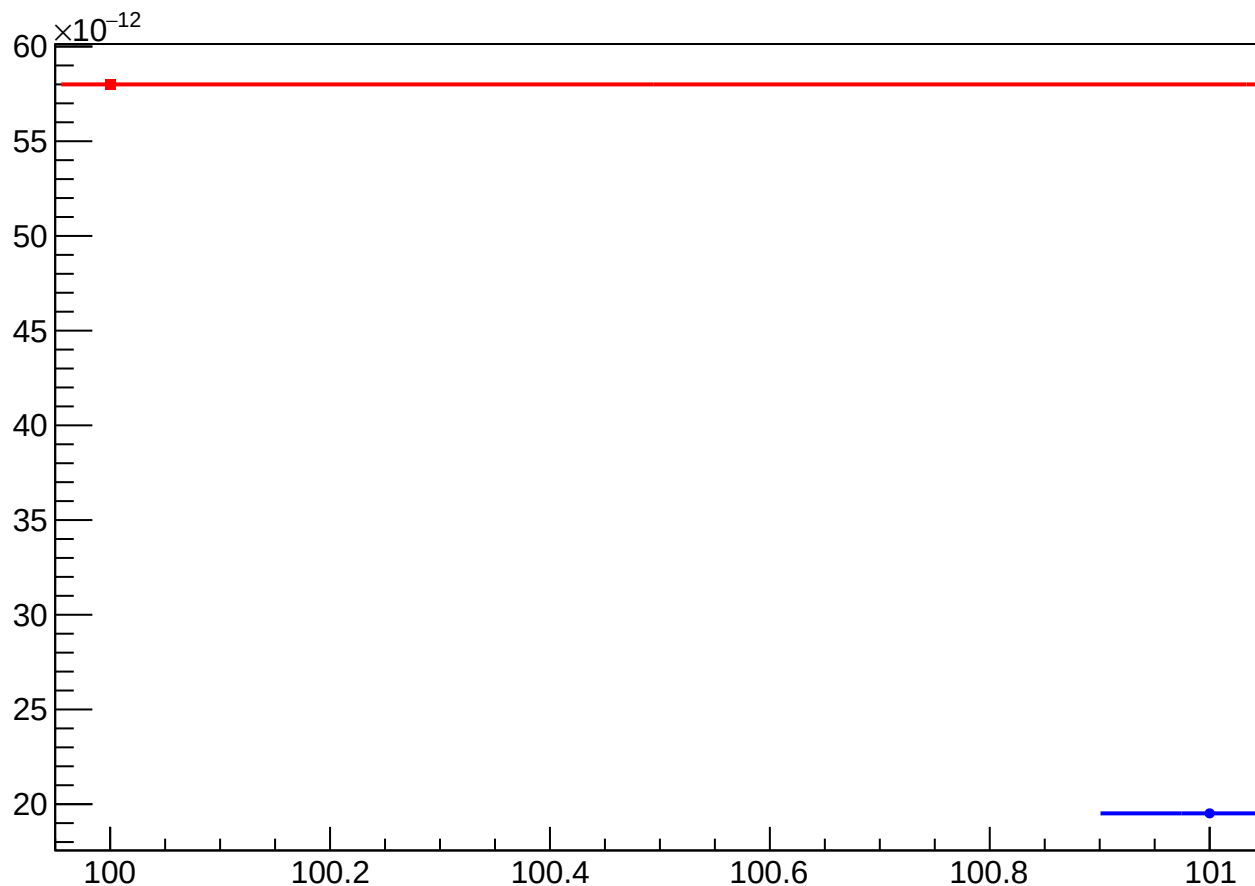
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_37\_26\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

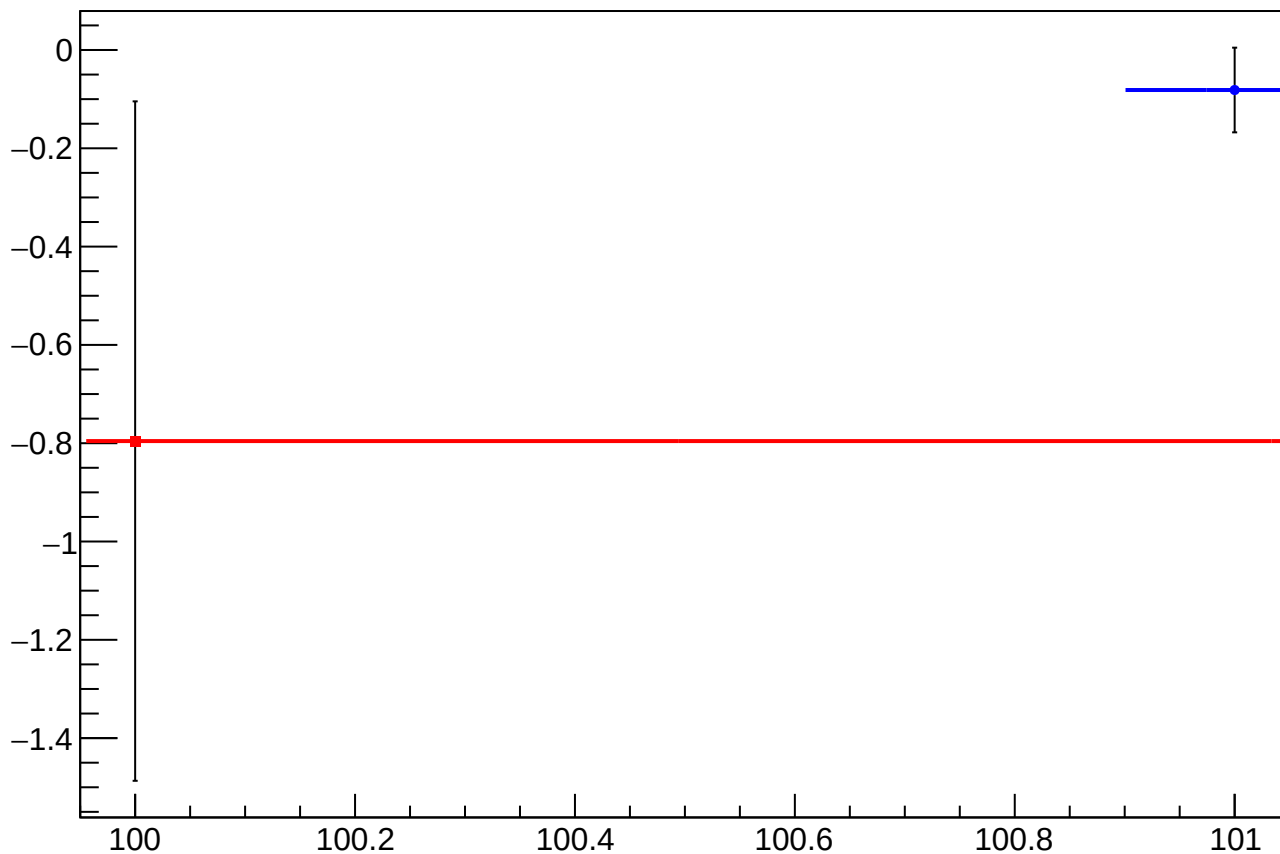
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37837.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37837.9/1

asym\_sam\_37\_26\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.081 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.796 $\pm$ 0.691  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

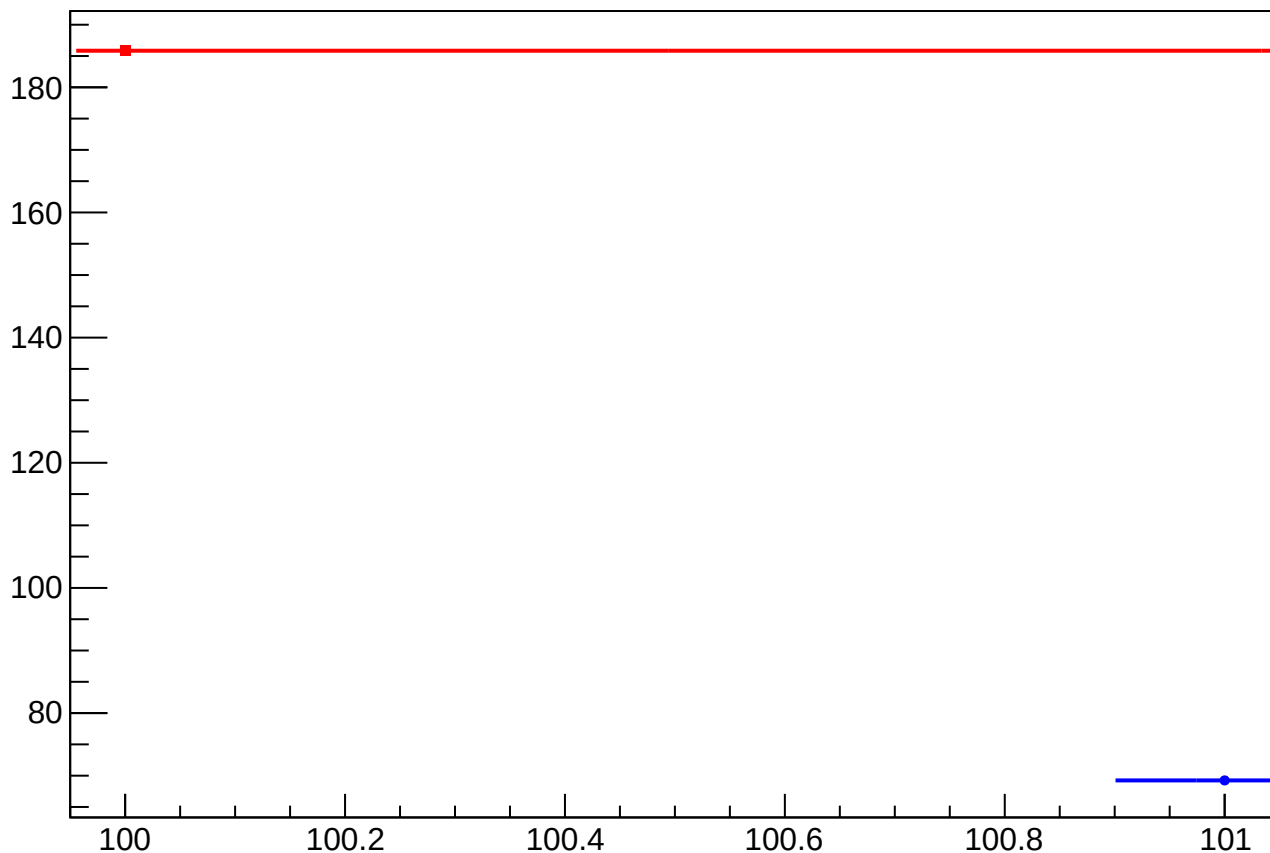
Right: -0.092 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 1.1/1

In: -0.081 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.092 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 1.1/1

asym\_sam\_37\_26\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 69.243+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.844+/-0.489  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

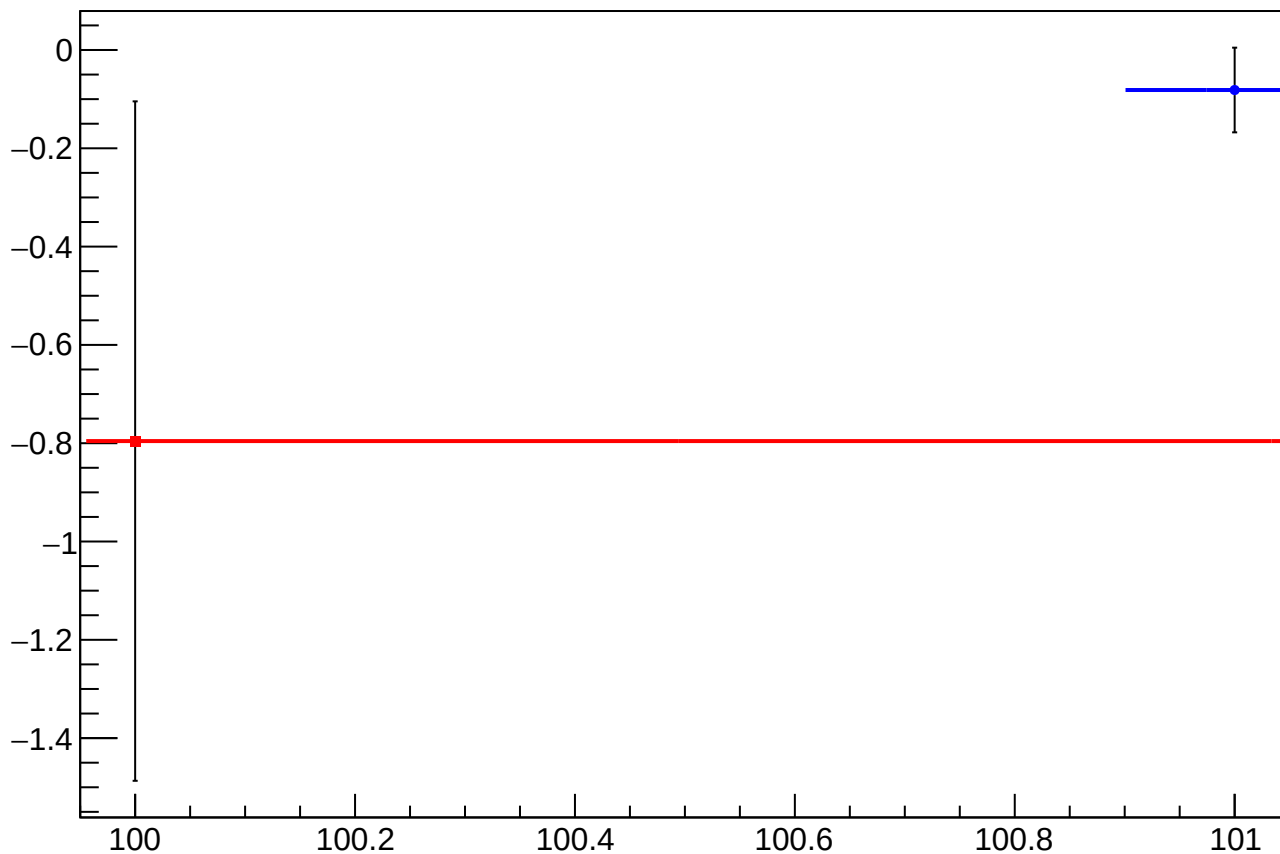
Right: 71.026+/-0.060  $\chi^2/\text{NDF}$ : 56051.5/1

In: 69.243+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.026+/-0.060  $\chi^2/\text{NDF}$ : 56051.5/1

asym\_sam\_37\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.081 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.796 $\pm$ 0.691  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

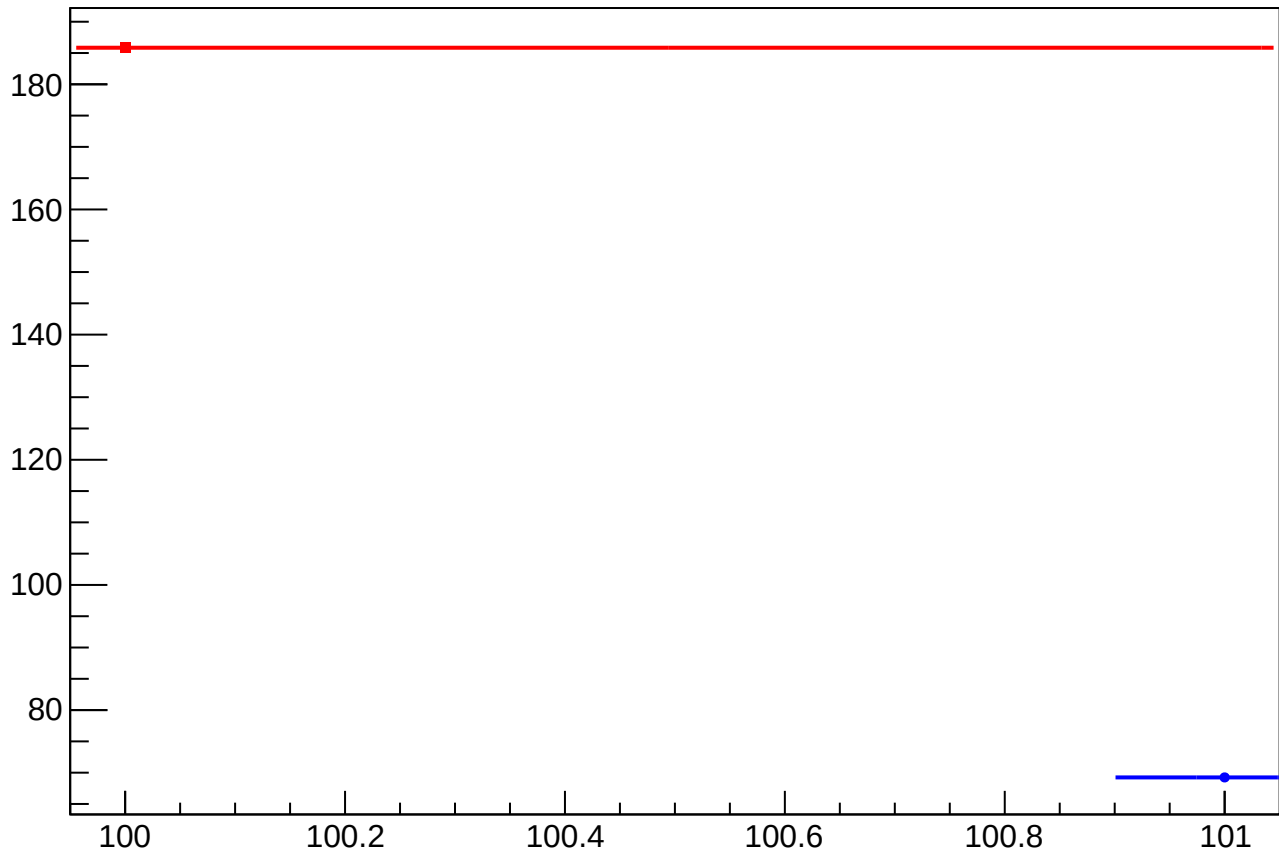
Right: -0.092 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 1.1/1

In: -0.081 $\pm$ 0.086  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.092 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 1.1/1

asym\_sam\_37\_26\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 69.243+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 185.844+/-0.489  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

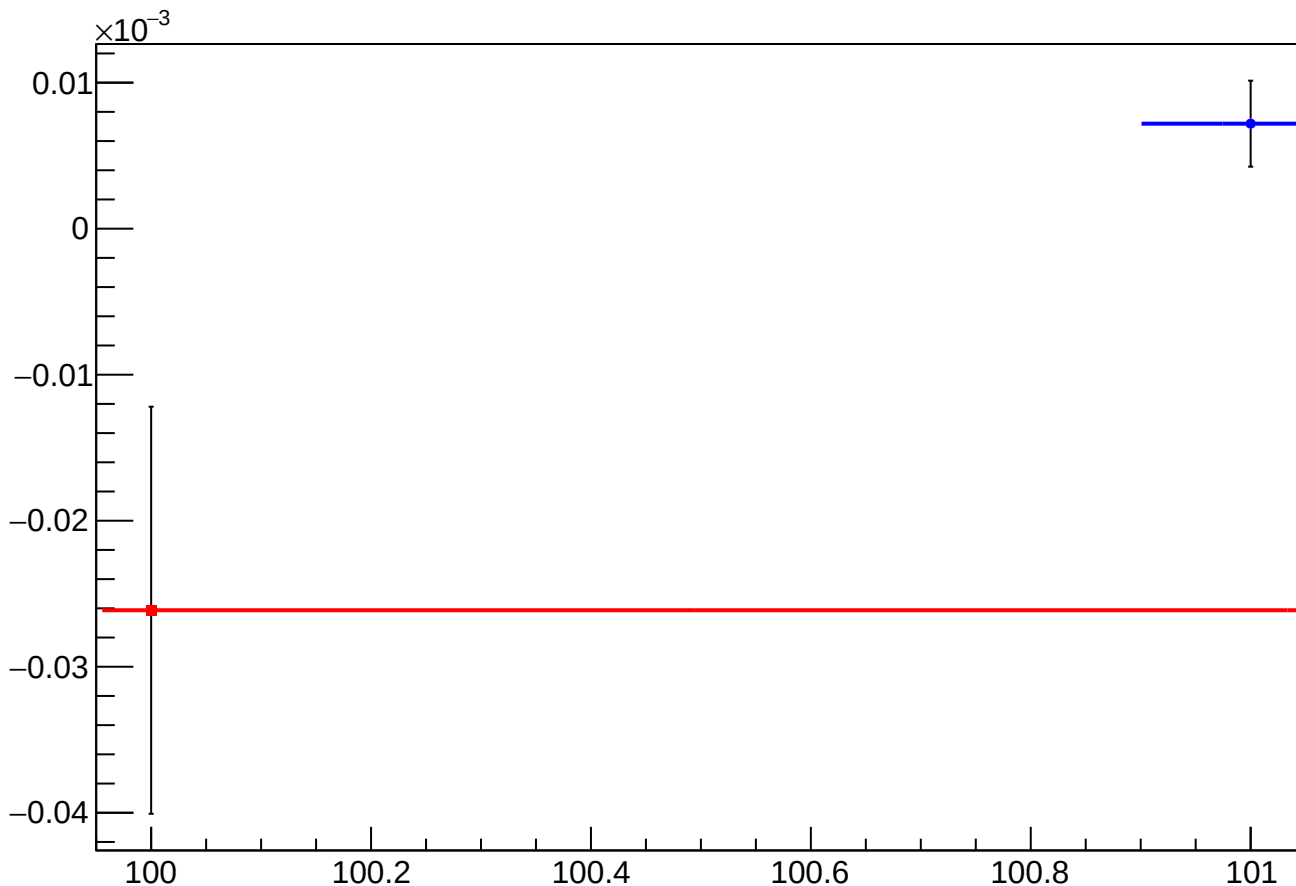
Right: 71.026+/-0.060  $\chi^2/\text{NDF}$ : 56051.5/1

In: 69.243+/-0.061  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.026+/-0.060  $\chi^2/\text{NDF}$ : 56051.5/1

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

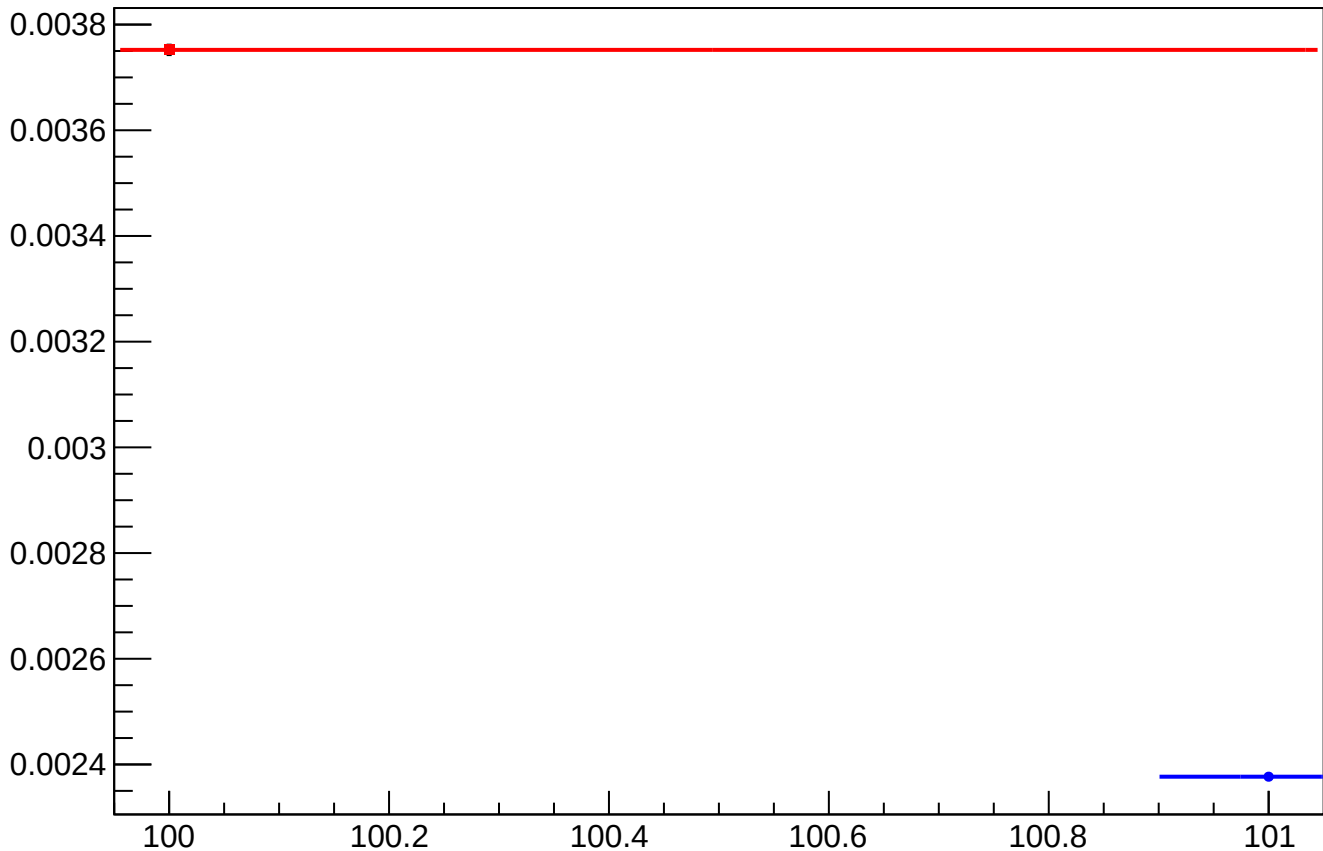
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.5/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 5.5/1

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 18634.4/1

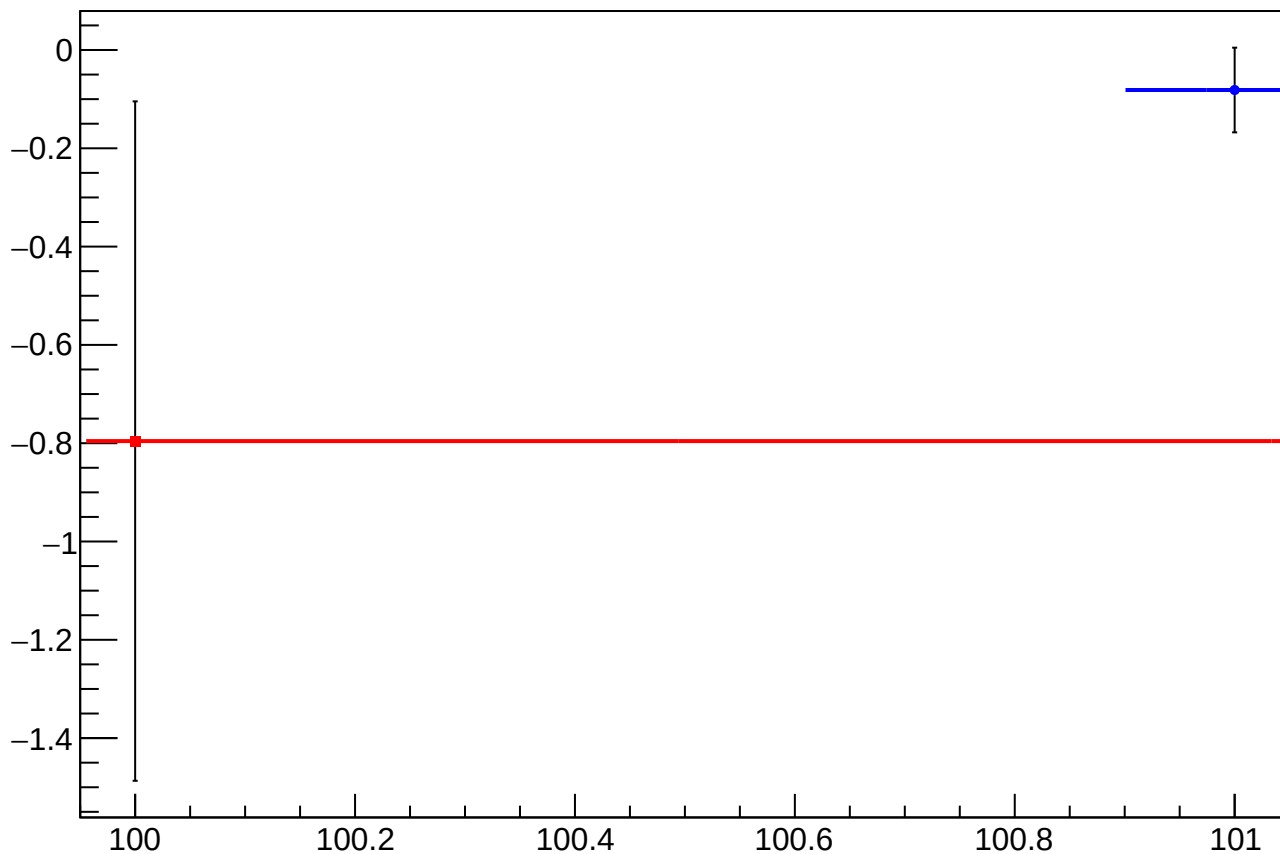
In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 18634.4/1



asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.081 \pm 0.086$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.796 \pm 0.691$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

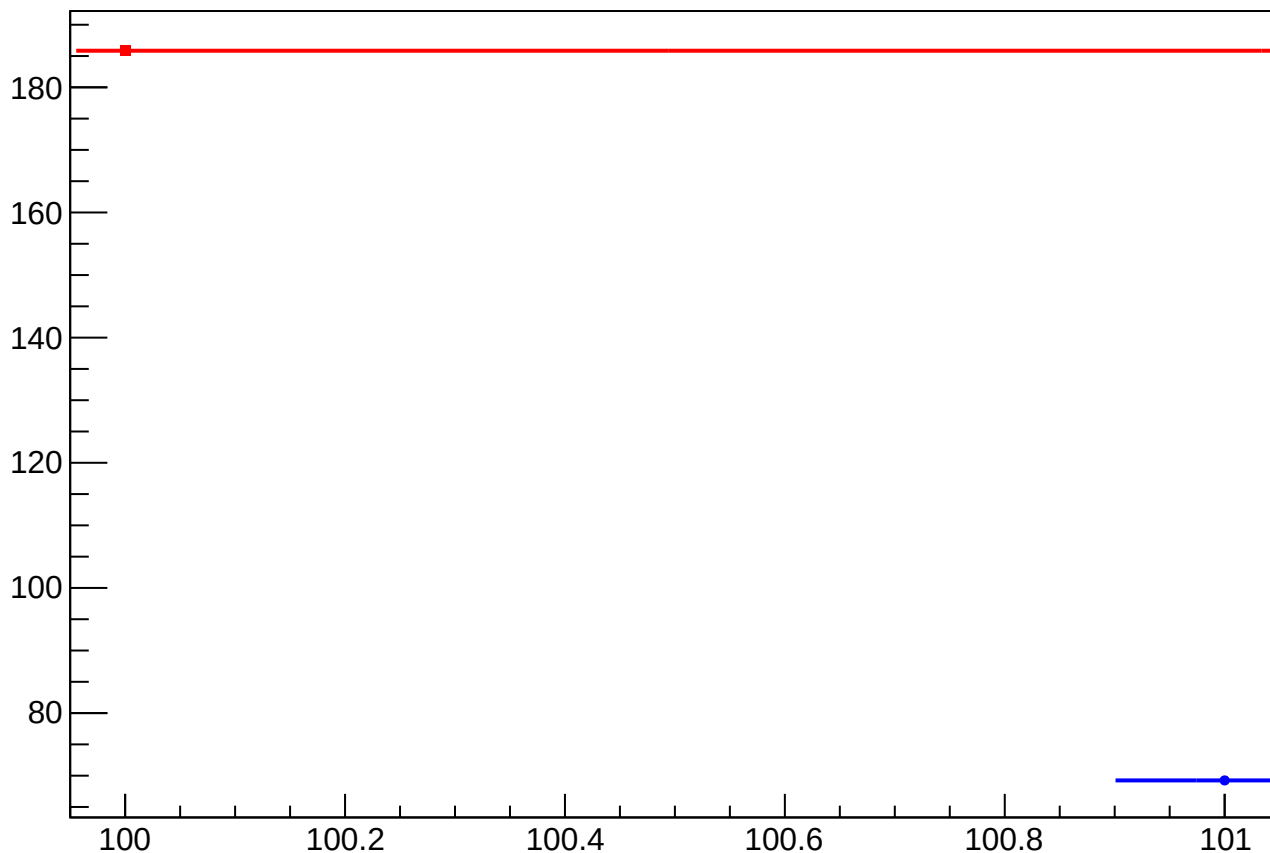
Right:  $-0.092 \pm 0.085$   $\chi^2/\text{NDF}: 1.1/1$

In:  $-0.081 \pm 0.086$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.092 \pm 0.085$   $\chi^2/\text{NDF}: 1.1/1$

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 69.243 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 185.847 $\pm$ 0.489  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

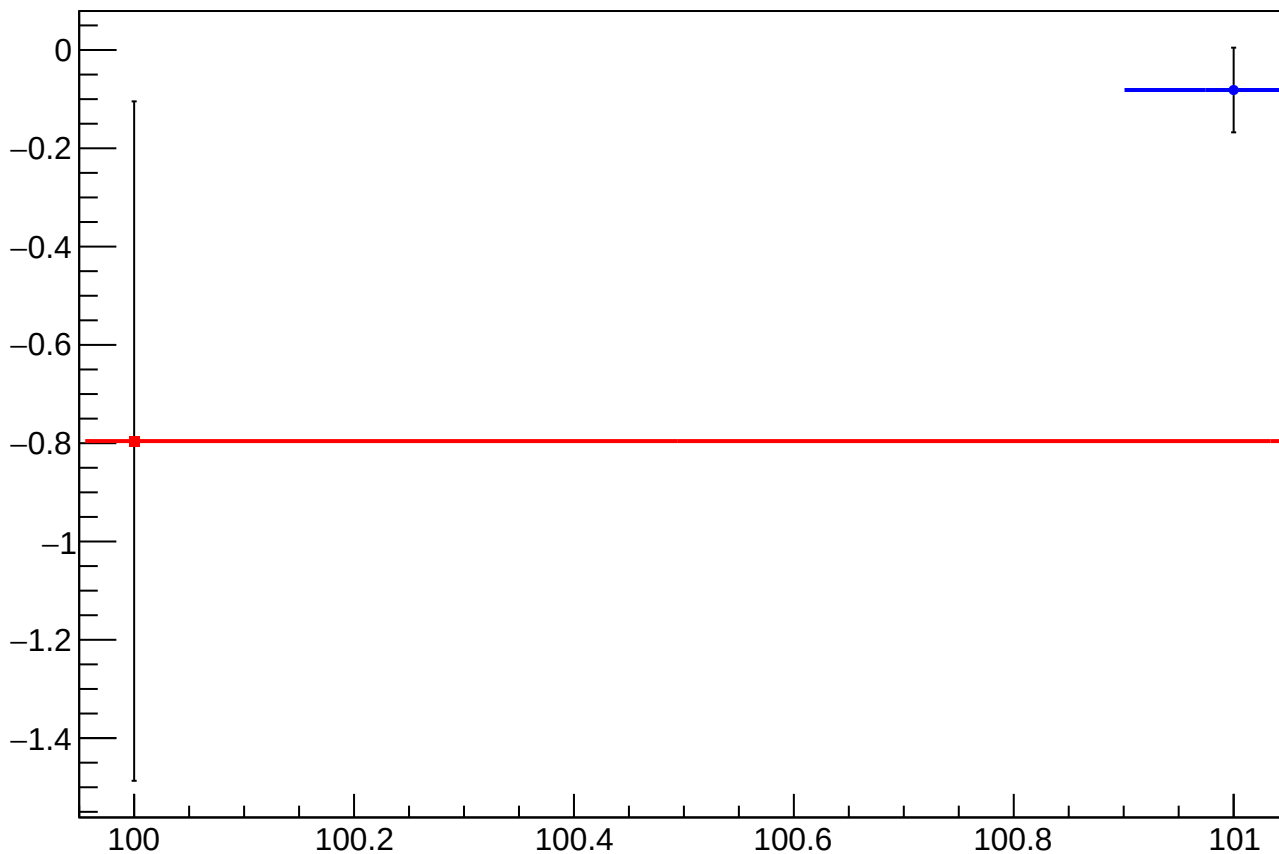
Right: 71.026 $\pm$ 0.060  $\chi^2$ /NDF: 56052.4/1

In: 69.243 $\pm$ 0.061  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 71.026 $\pm$ 0.060  $\chi^2$ /NDF: 56052.4/1

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.081 \pm 0.086$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.796 \pm 0.691$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

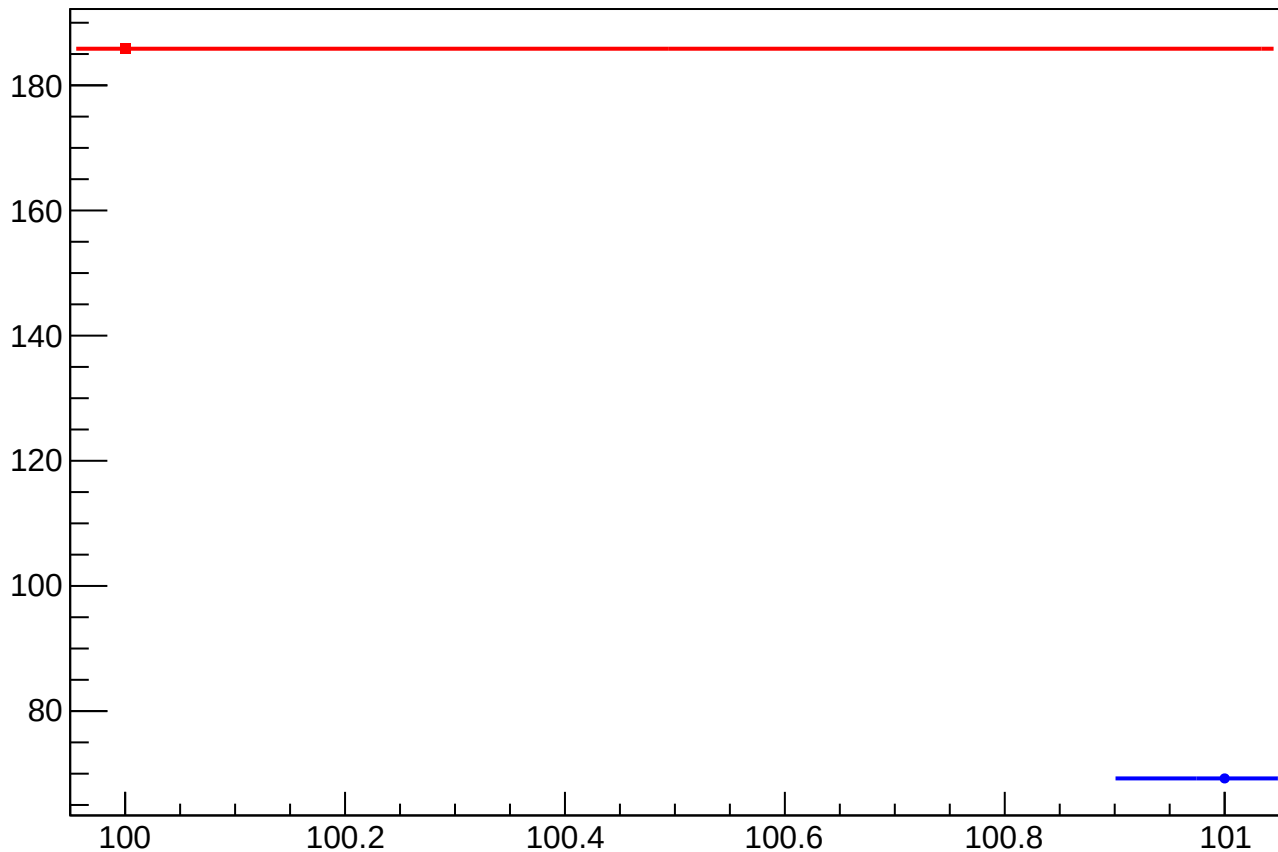
Right:  $-0.092 \pm 0.085$   $\chi^2/\text{NDF}$ : 1.1/1

In:  $-0.081 \pm 0.086$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.092 \pm 0.085$   $\chi^2/\text{NDF}$ : 1.1/1

asym\_sam\_37\_26\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 69.243+/-0.061  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 185.847+/-0.489  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

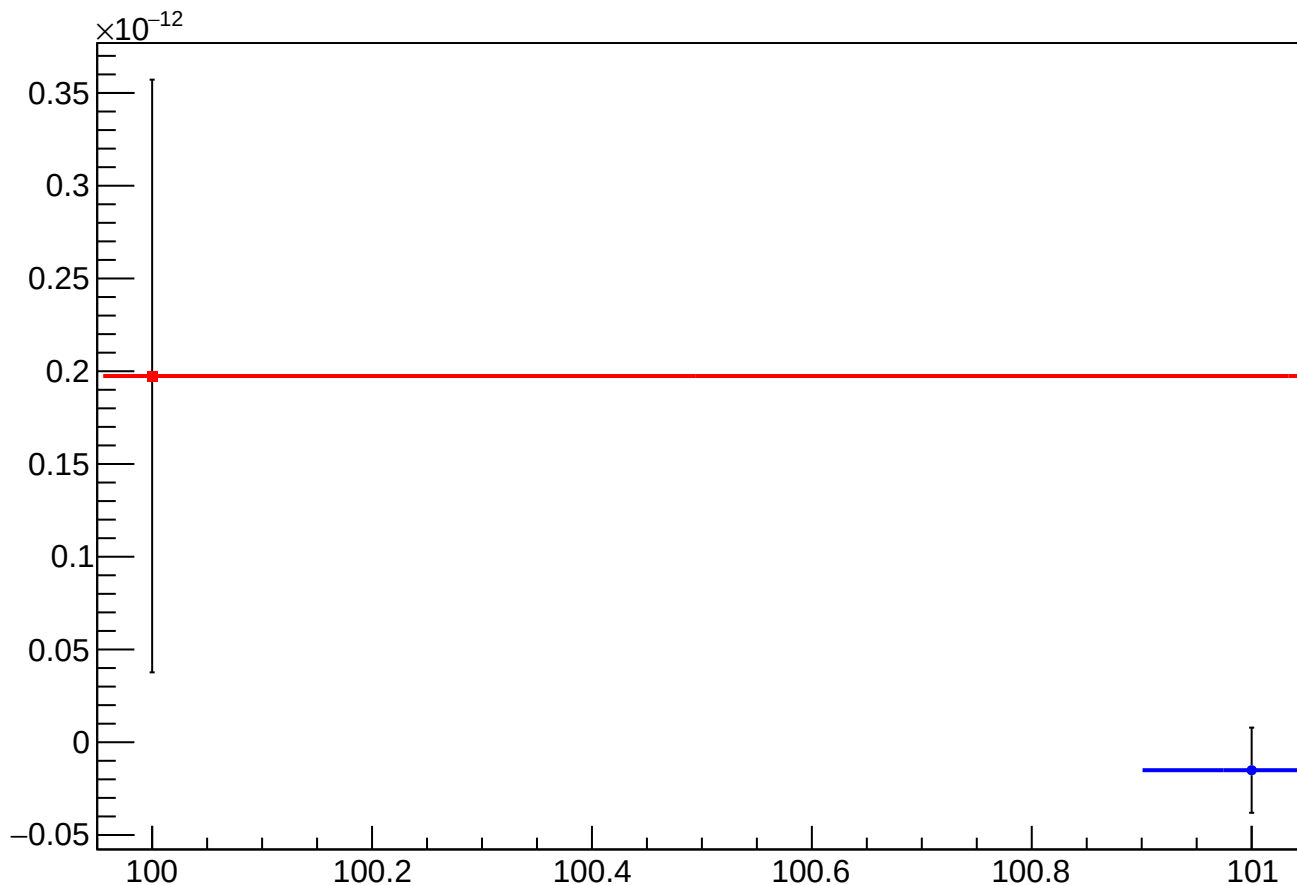
Right: 71.026+/-0.060  $\chi^2$ /NDF: 56052.4/1

In: 69.243+/-0.061  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 71.026+/-0.060  $\chi^2$ /NDF: 56052.4/1

asym\_sam\_37\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

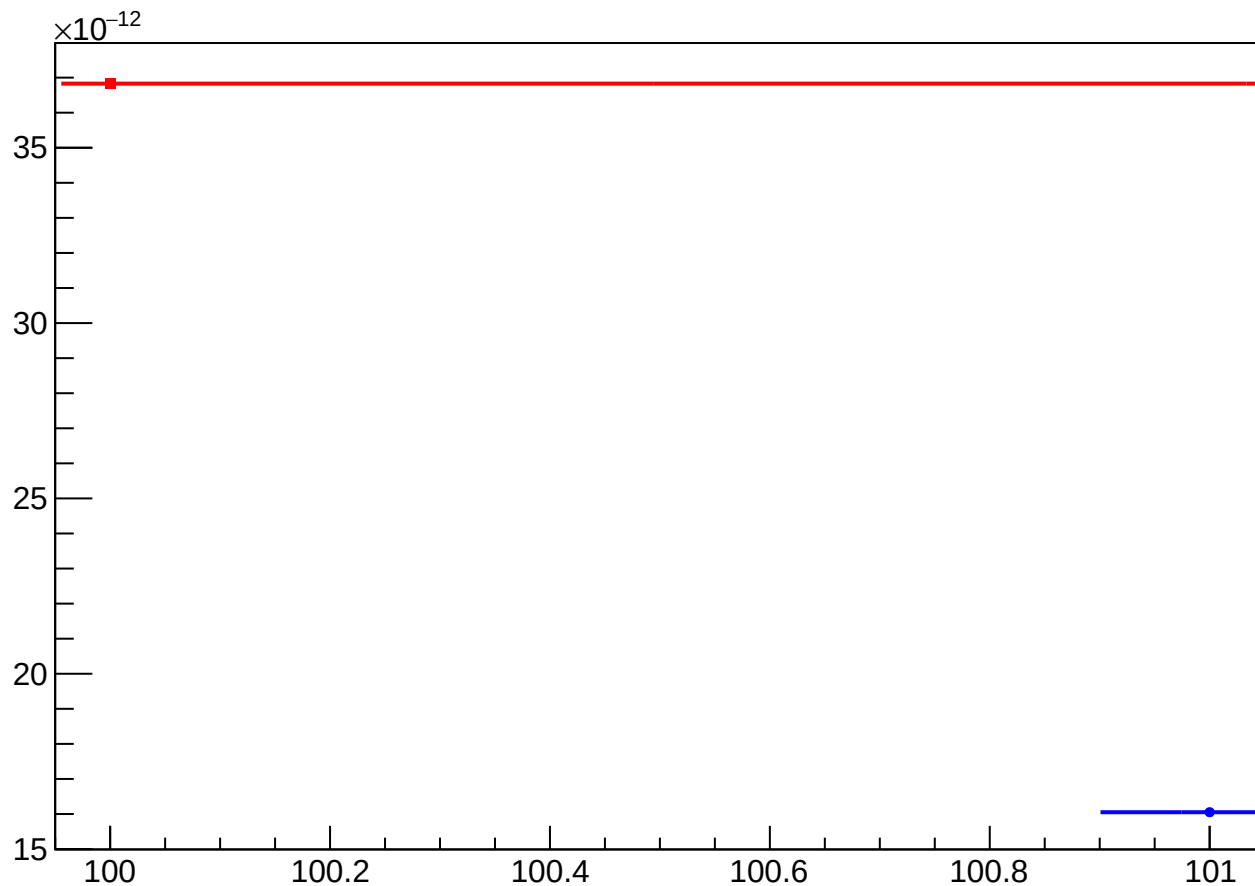
Right: -0.000+/-0.000  $\chi^2$ /NDF: 1.7/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 1.7/1

asym\_sam\_37\_26\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

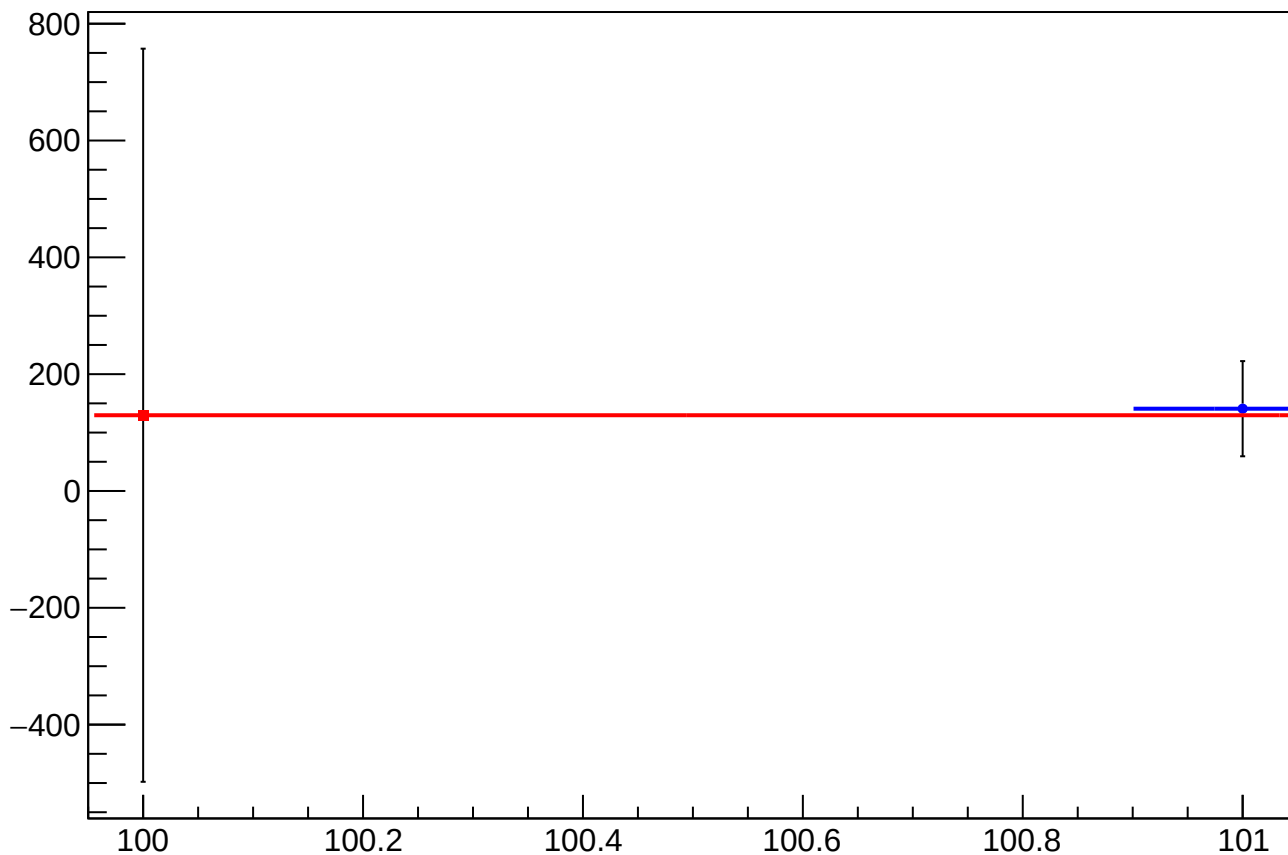
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33148.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 33148.4/1

reg\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 140.868 $\pm$ 81.478  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 129.684 $\pm$ 627.586  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

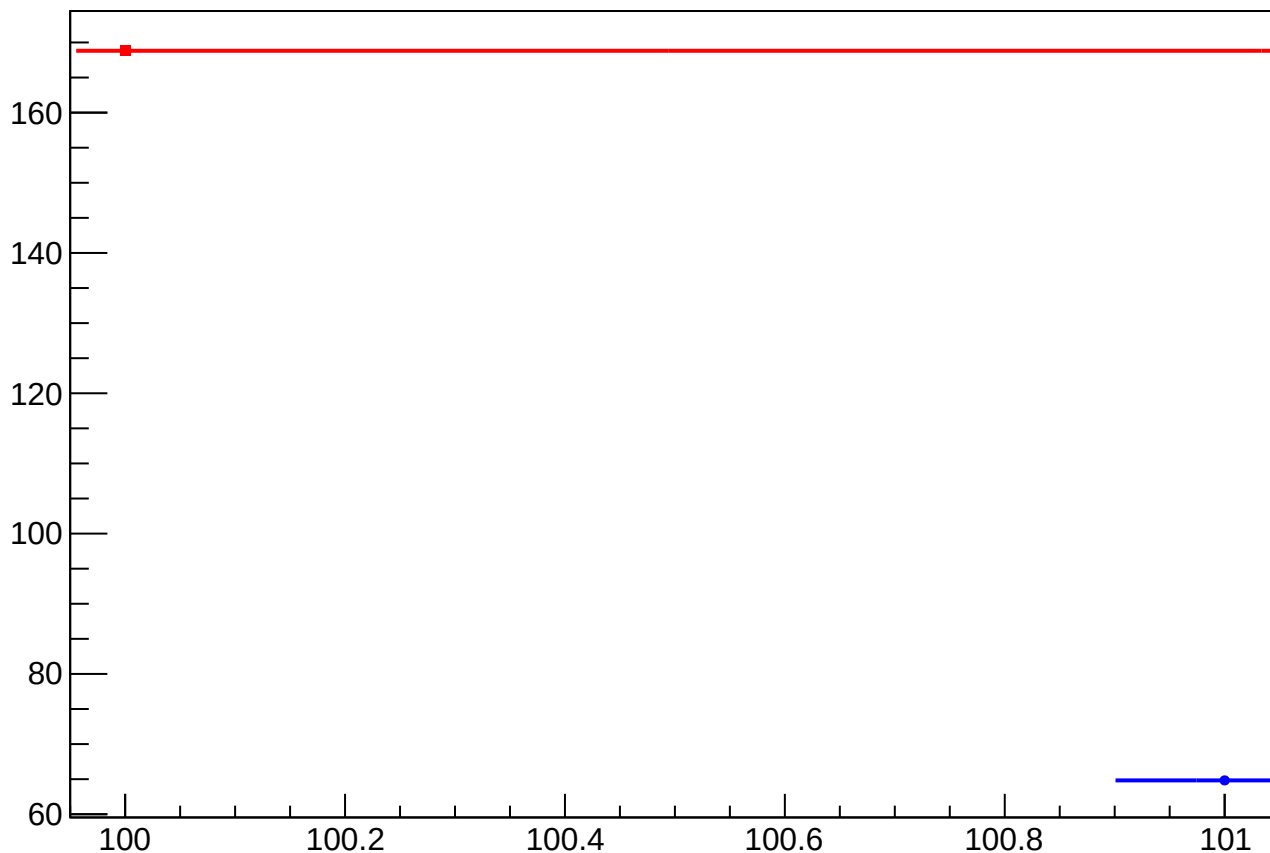
Right: 140.683 $\pm$ 80.799  $\chi^2$ /NDF: 0.0/1

In: 140.868 $\pm$ 81.478  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 140.683 $\pm$ 80.799  $\chi^2$ /NDF: 0.0/1

reg\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 64.826+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.814+/-0.444  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 66.549+/-0.057  $\chi^2/\text{NDF}$ : 53999.5/1

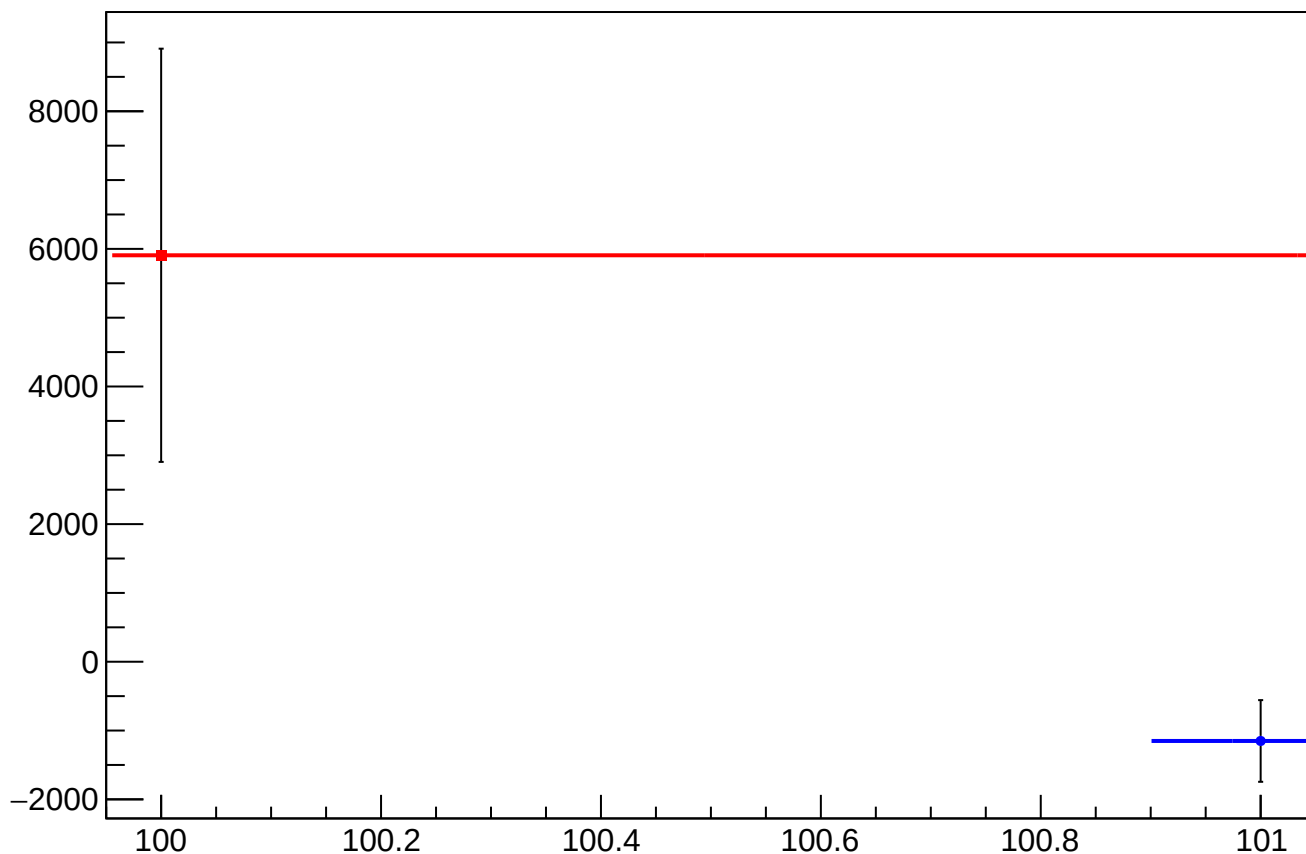
In: 64.826+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.549+/-0.057  $\chi^2/\text{NDF}$ : 53999.5/1



asym\_sam\_1357\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -1151.414 $\pm$ 593.491  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5906.896 $\pm$ 3002.724  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

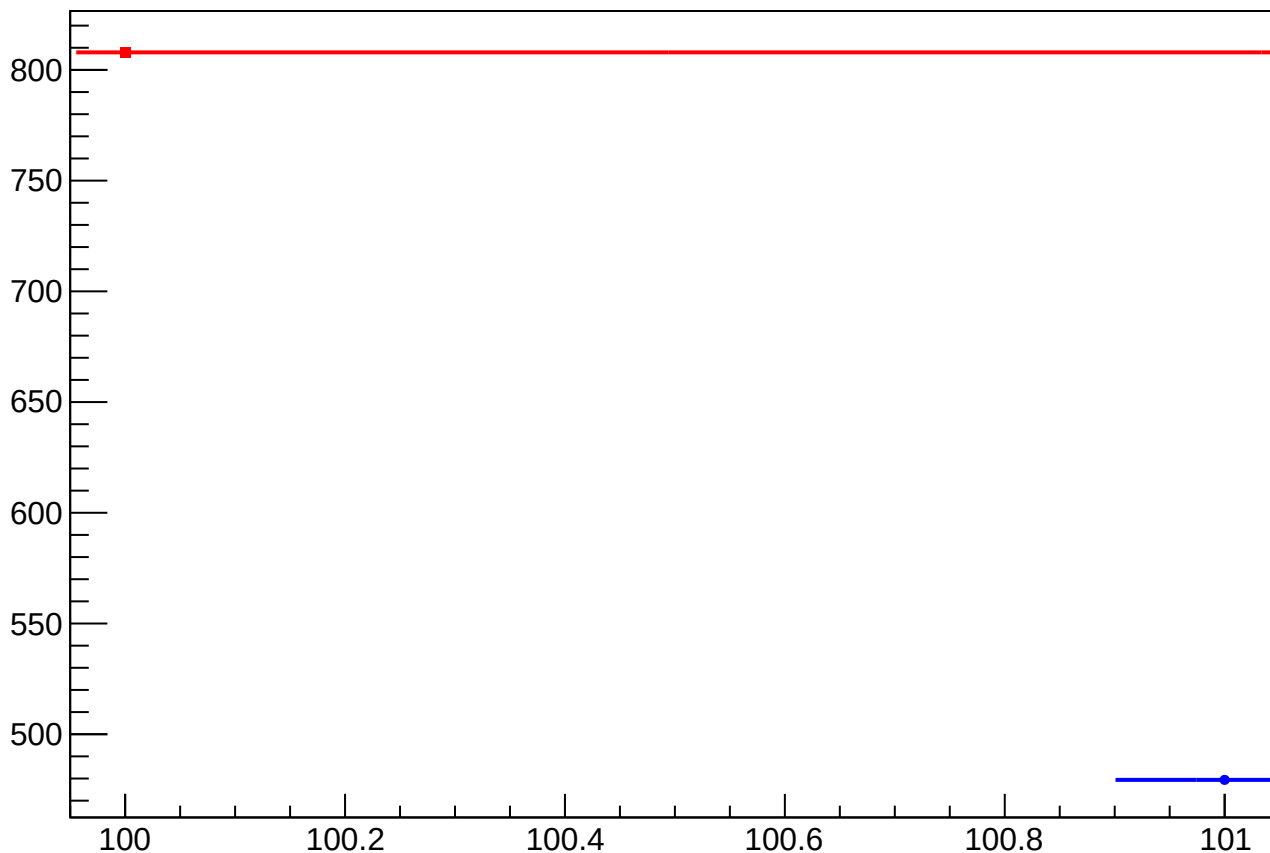
Right: -886.042 $\pm$ 582.228  $\chi^2$ /NDF: 5.3/1

In: -1151.414 $\pm$ 593.491  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -886.042 $\pm$ 582.228  $\chi^2$ /NDF: 5.3/1

asym\_sam\_1357\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 479.390+/-0.420  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 807.919+/-2.123  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

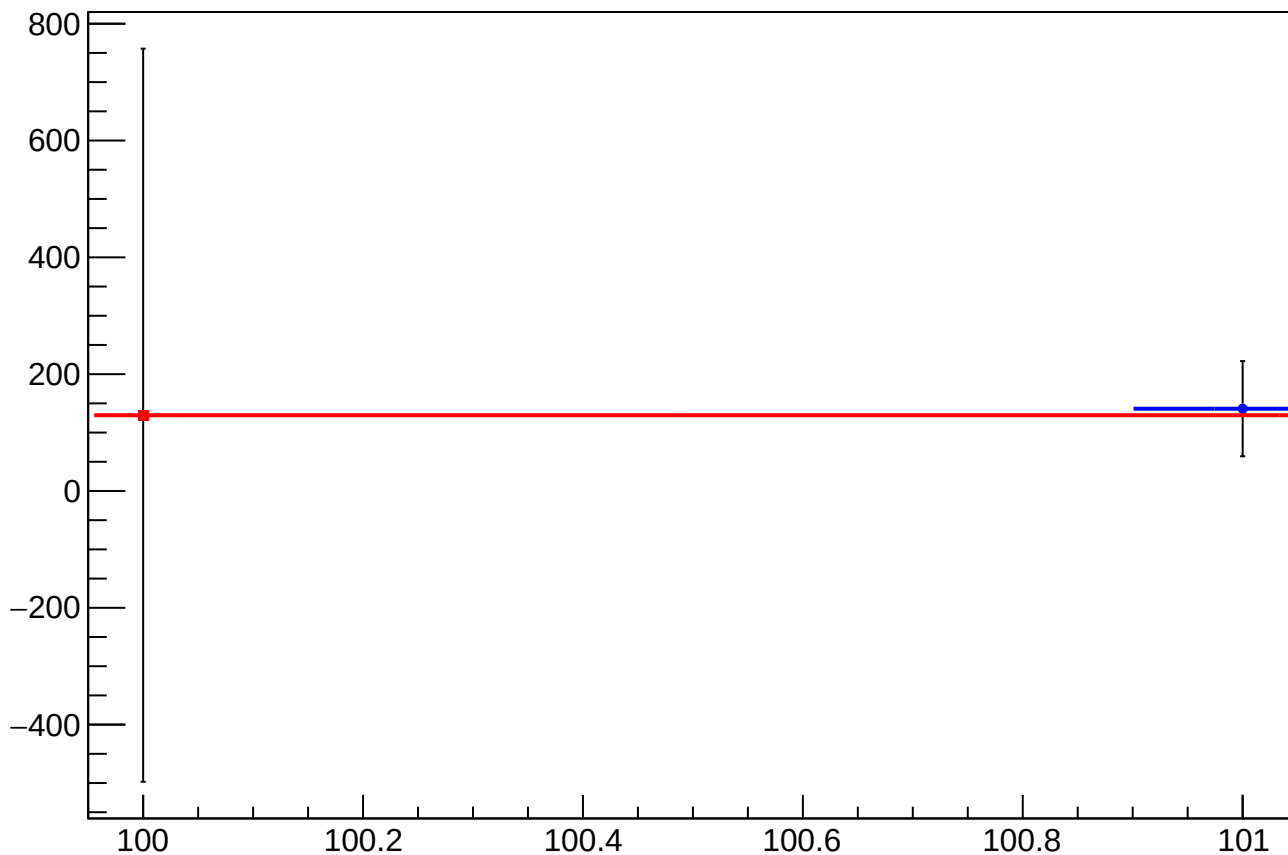
Right: 491.741+/-0.412  $\chi^2/\text{NDF}$ : 23041.2/1

In: 479.390+/-0.420  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 491.741+/-0.412  $\chi^2/\text{NDF}$ : 23041.2/1

cor\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 140.862 $\pm$ 81.478  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 129.686 $\pm$ 627.586  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

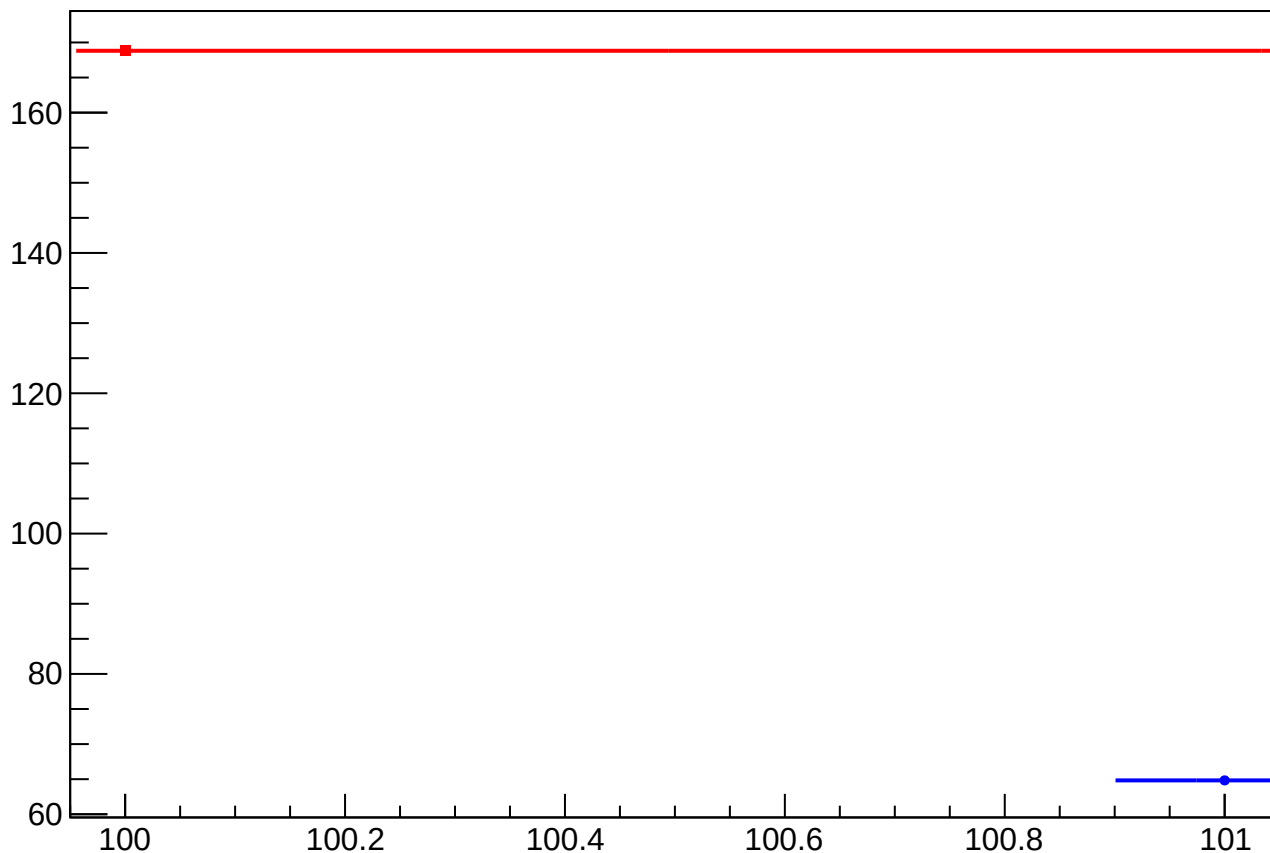
Right: 140.677 $\pm$ 80.799  $\chi^2$ /NDF: 0.0/1

In: 140.862 $\pm$ 81.478  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 140.677 $\pm$ 80.799  $\chi^2$ /NDF: 0.0/1

cor\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 64.826+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.814+/-0.444  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

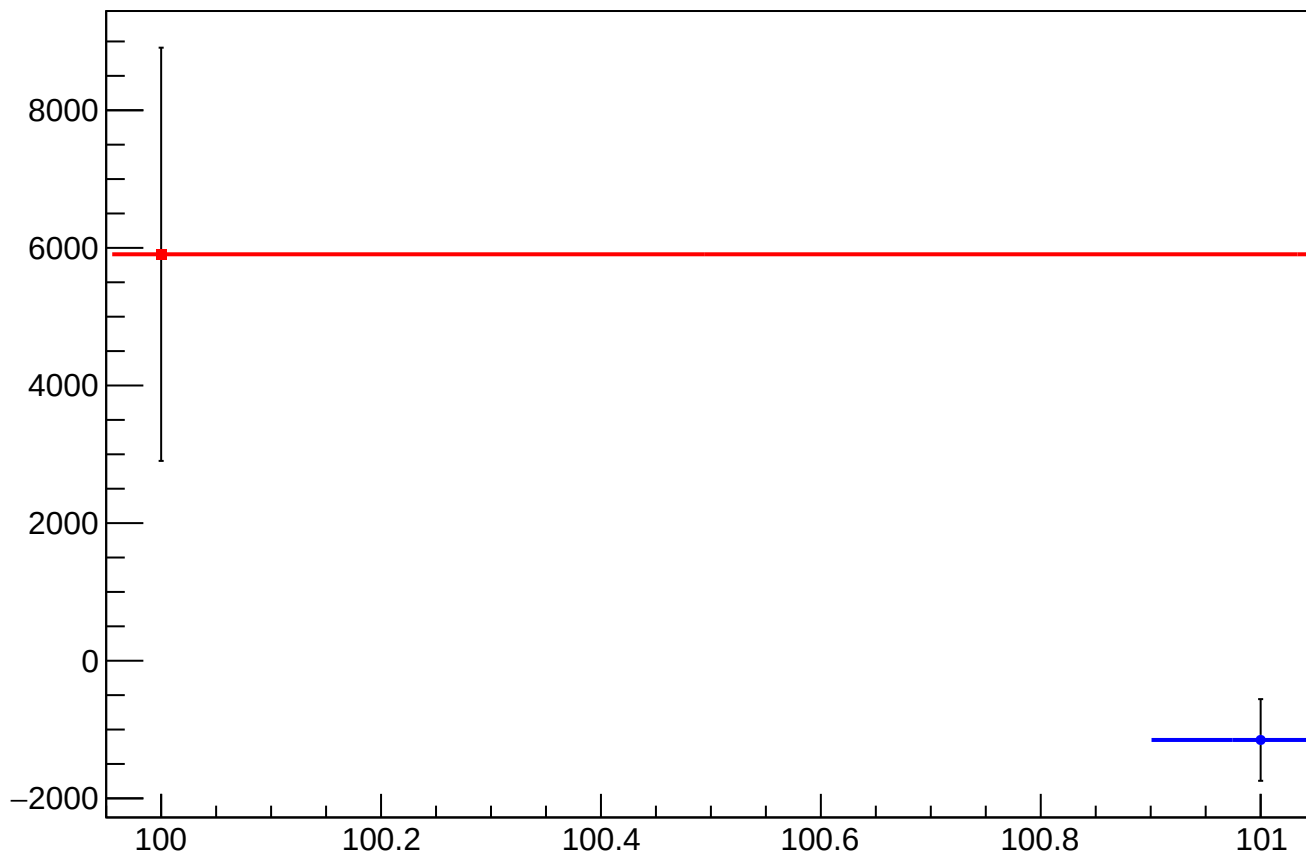
Right: 66.549+/-0.057  $\chi^2/\text{NDF}$ : 53999.5/1

In: 64.826+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.549+/-0.057  $\chi^2/\text{NDF}$ : 53999.5/1

asym\_sam\_1357\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1151.411+/-593.493  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5906.897+/-3002.724  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

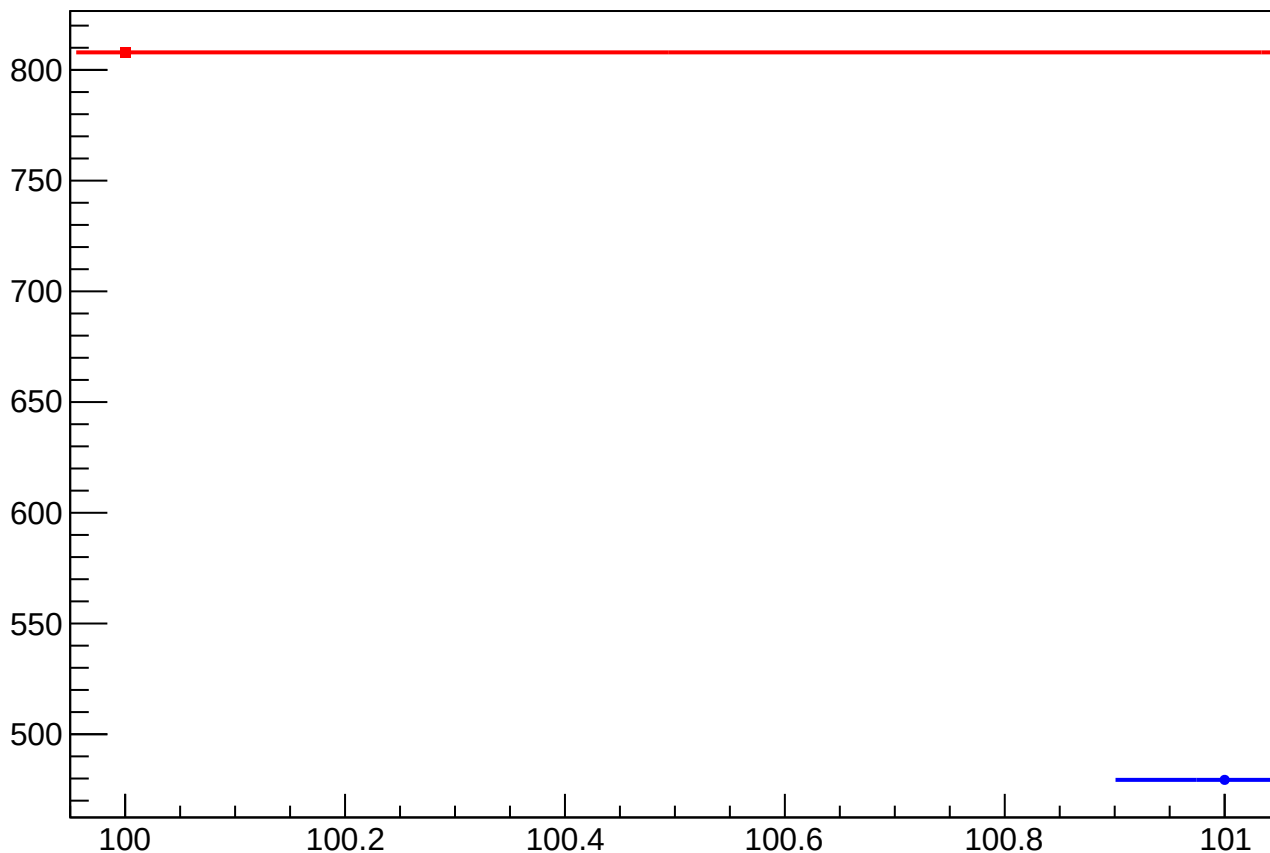
Right: -886.038+/-582.229  $\chi^2/\text{NDF}$ : 5.3/1

In: -1151.411+/-593.493  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -886.038+/-582.229  $\chi^2/\text{NDF}$ : 5.3/1

asym\_sam\_1357\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 479.391 $\pm$ 0.420  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 807.919 $\pm$ 2.123  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

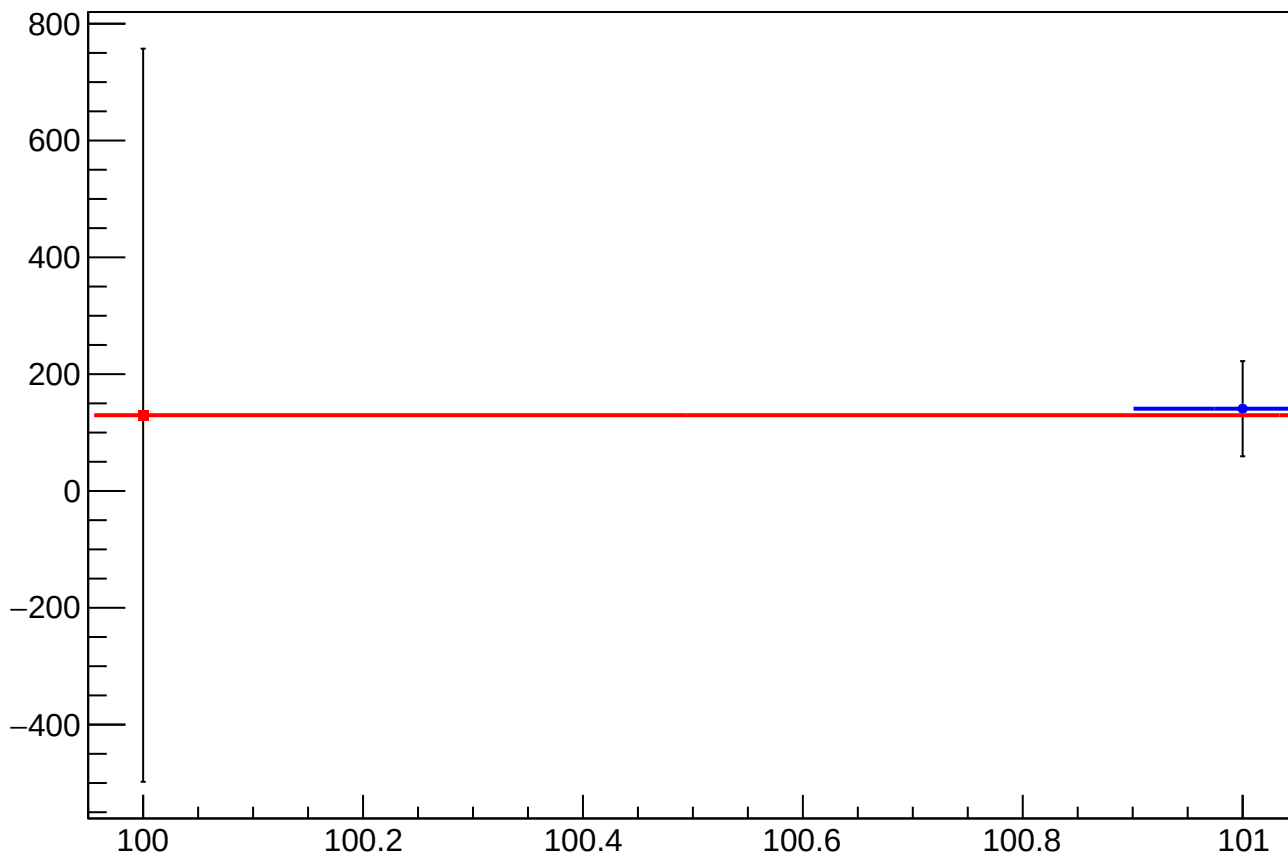
Right: 491.743 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 23041.0/1

In: 479.391 $\pm$ 0.420  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 491.743 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 23041.0/1

eigen\_cor\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 140.862+/-81.478  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 129.686+/-627.586  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

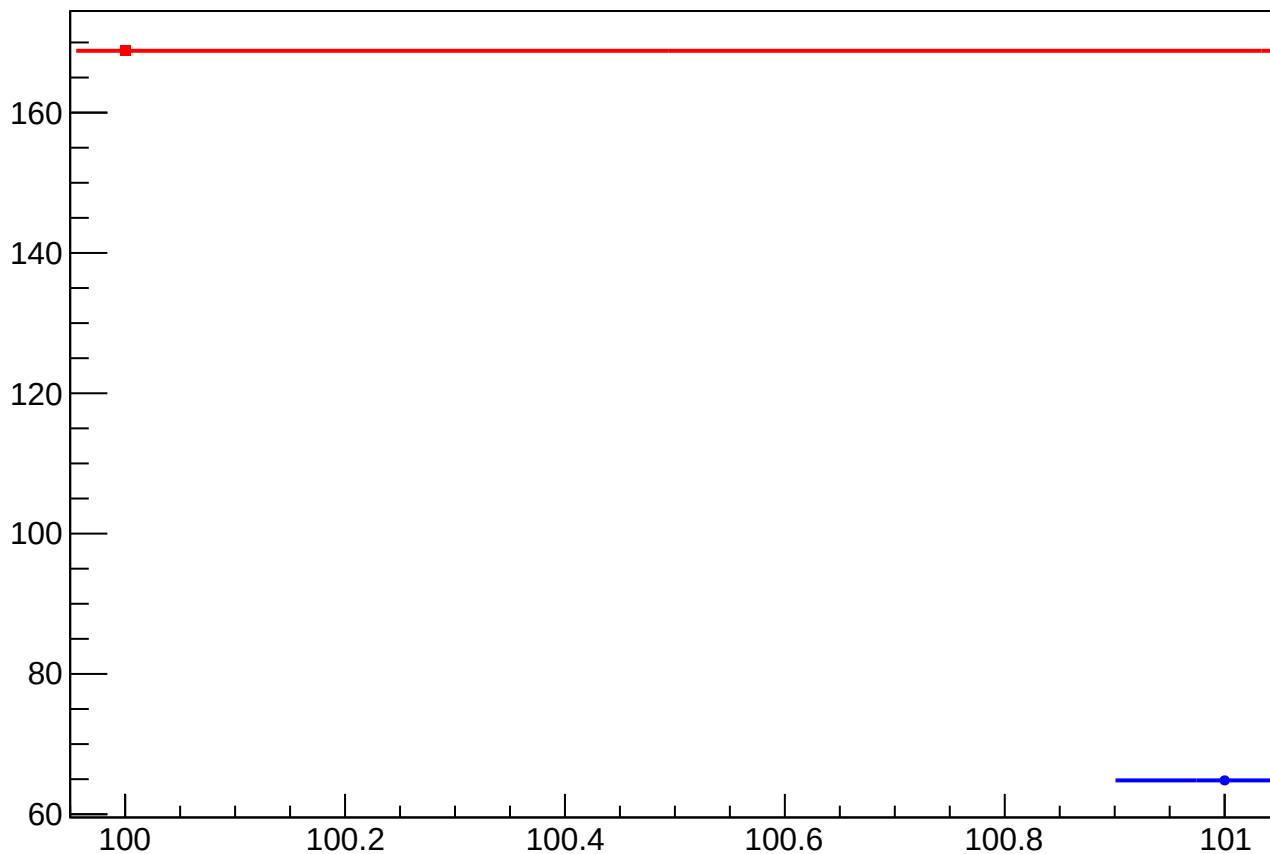
Right: 140.677+/-80.799  $\chi^2/\text{NDF}$ : 0.0/1

In: 140.862+/-81.478  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 140.677+/-80.799  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 64.826+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 168.814+/-0.444  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 66.549+/-0.057  $\chi^2/\text{NDF}$ : 53999.5/1

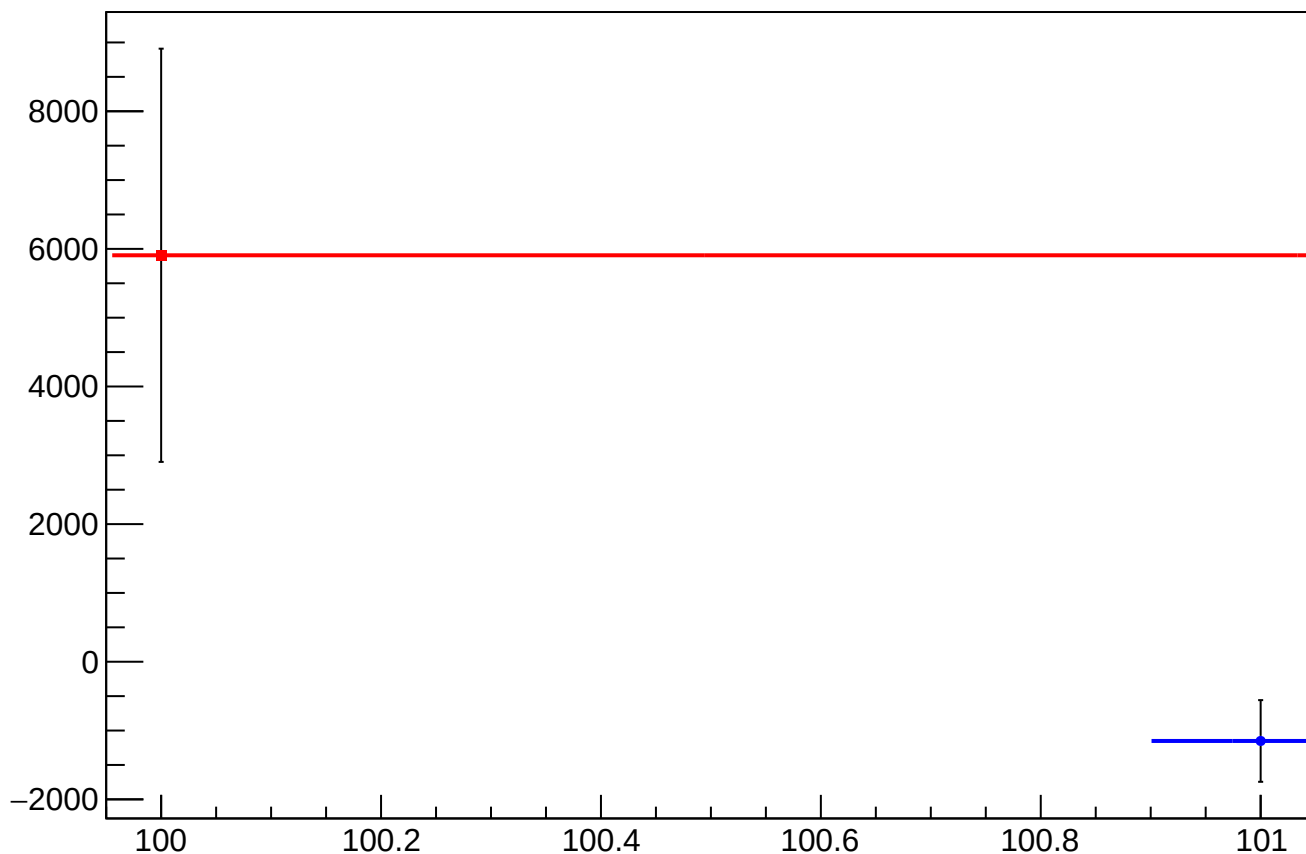
In: 64.826+/-0.058  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.549+/-0.057  $\chi^2/\text{NDF}$ : 53999.5/1



asym\_sam\_1357\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -1151.411+/-593.493  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5906.897+/-3002.724  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

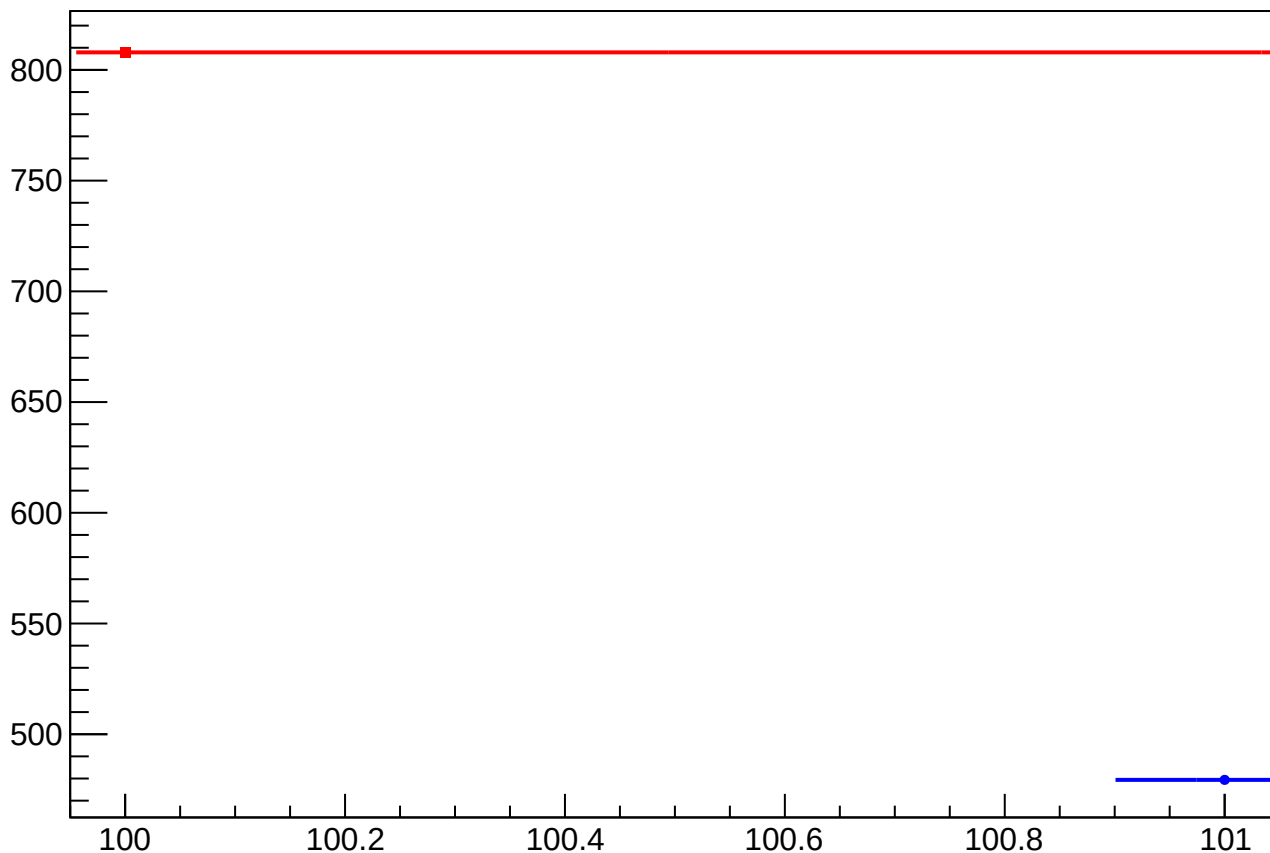
Right: -886.038+/-582.229  $\chi^2/\text{NDF}$ : 5.3/1

In: -1151.411+/-593.493  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -886.038+/-582.229  $\chi^2/\text{NDF}$ : 5.3/1

asym\_sam\_1357\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 479.391 $\pm$ 0.420  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 807.919 $\pm$ 2.123  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

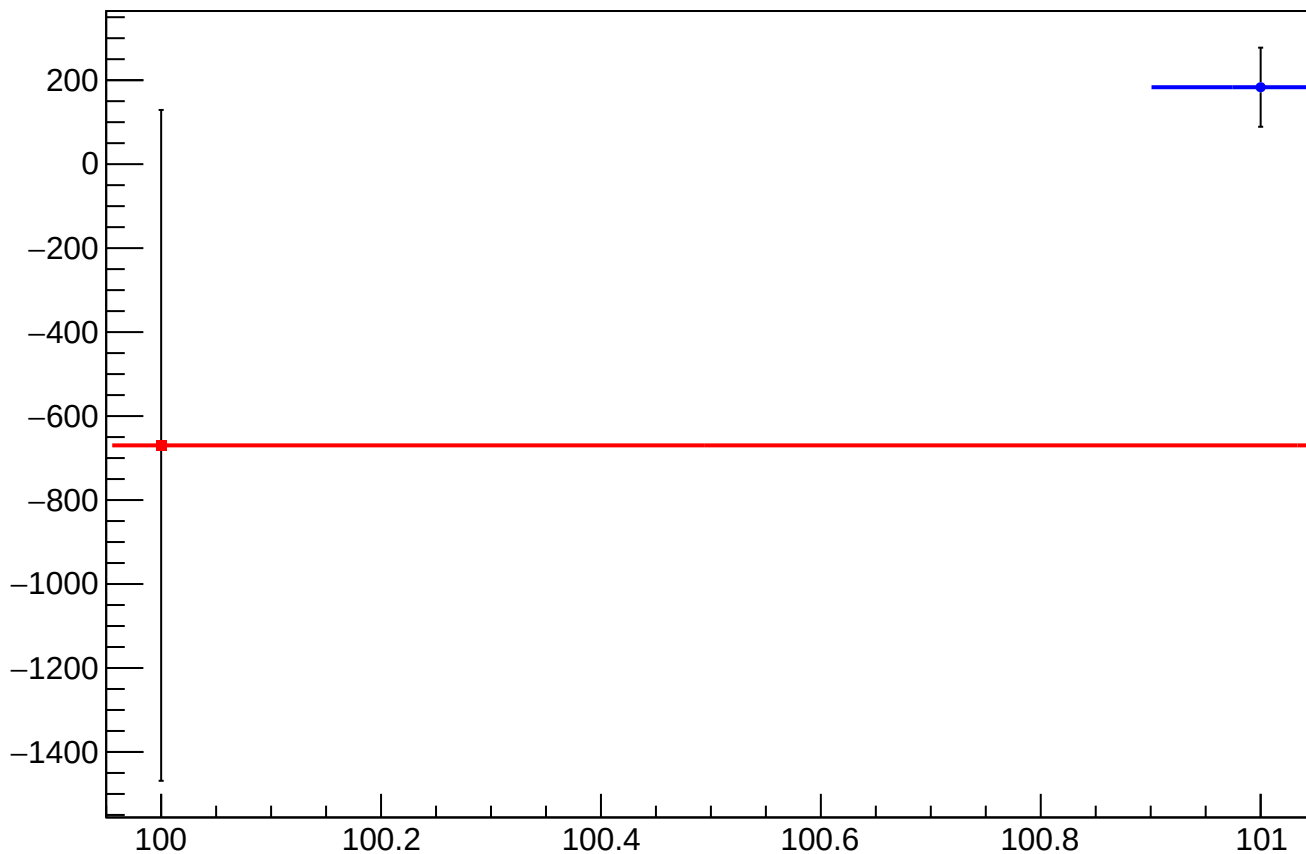
Right: 491.743 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 23041.0/1

In: 479.391 $\pm$ 0.420  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 491.743 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 23041.0/1

dit\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 183.250+/-94.189  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -669.790+/-798.889  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

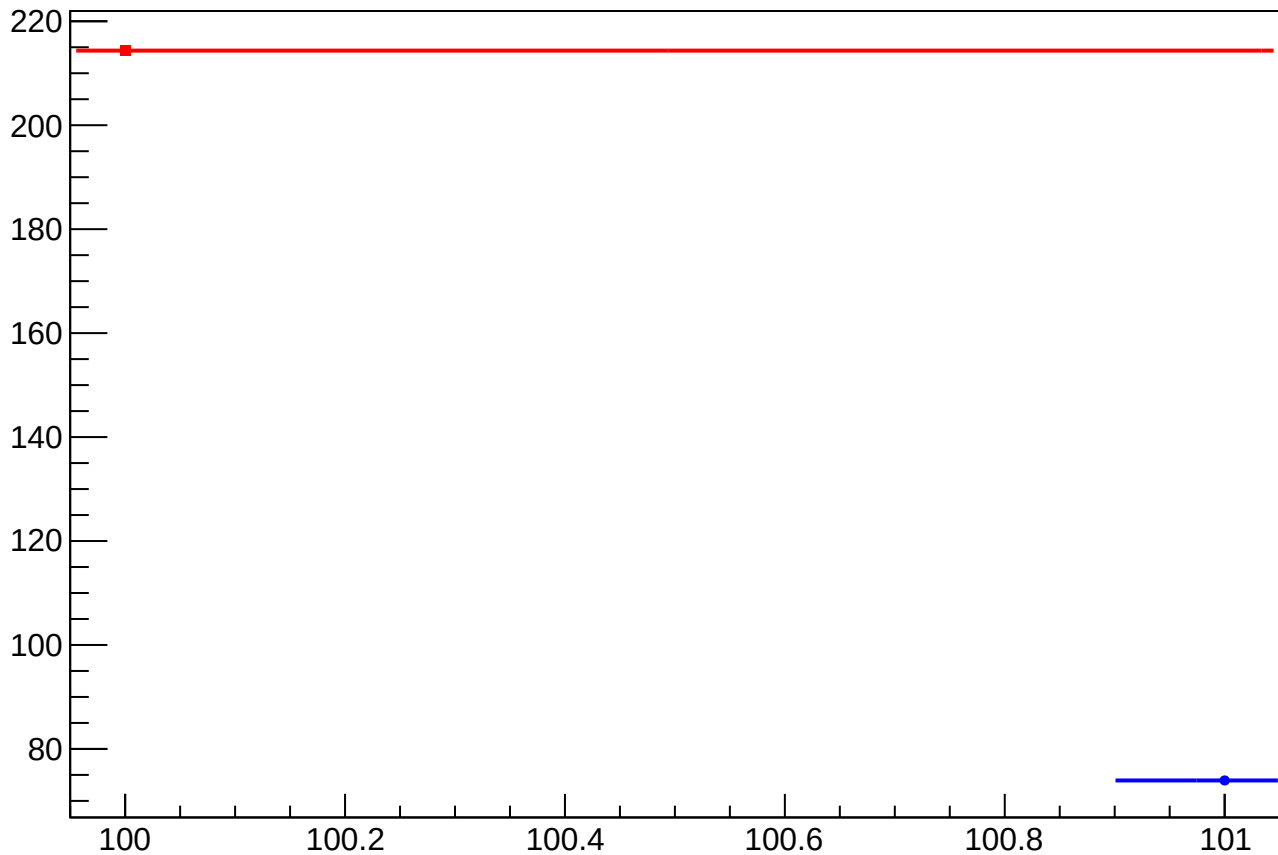
Right: 171.555+/-93.541  $\chi^2/\text{NDF}$ : 1.1/1

In: 183.250+/-94.189  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 171.555+/-93.541  $\chi^2/\text{NDF}$ : 1.1/1

dit\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 73.935 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 214.354 $\pm$ 0.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

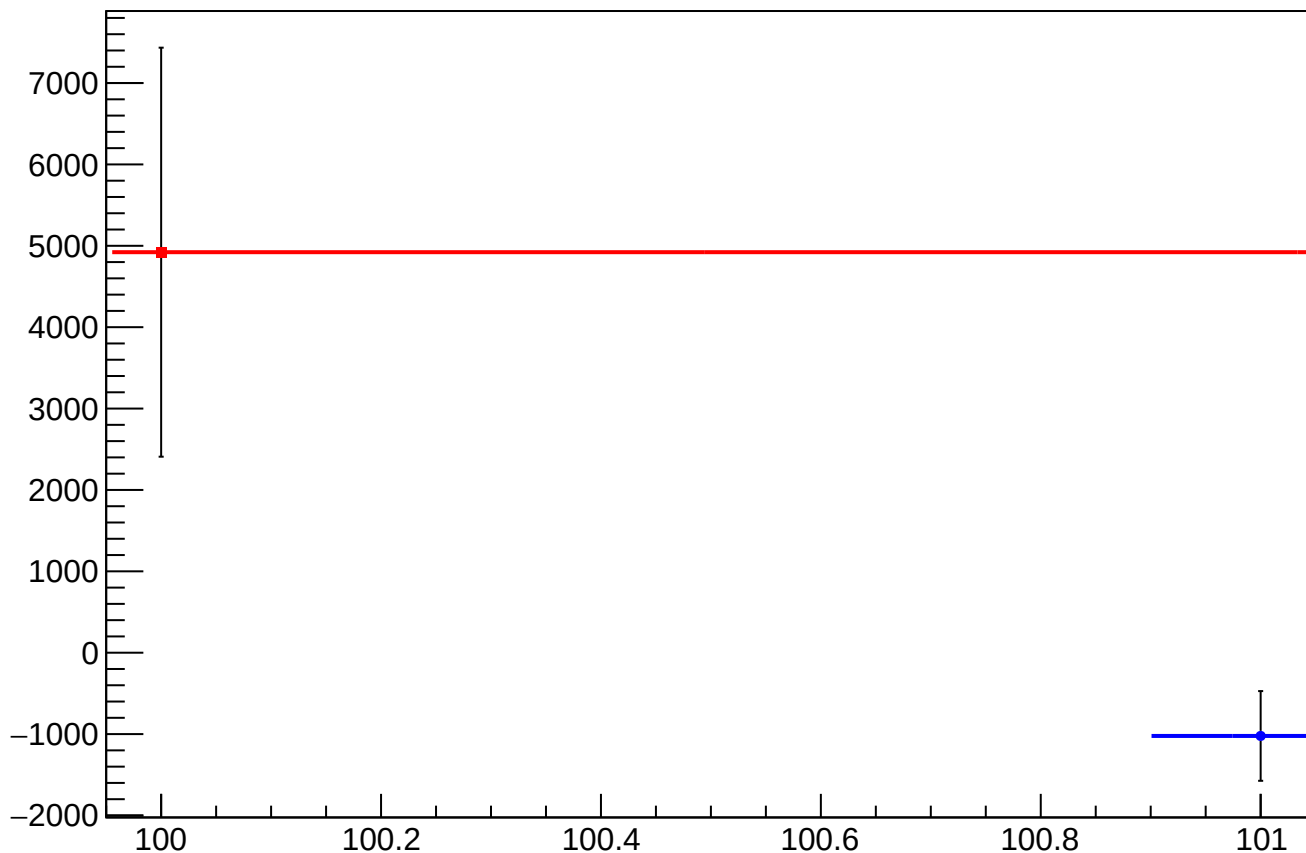
Right: 75.860 $\pm$ 0.066  $\chi^2$ /NDF: 60941.2/1

In: 73.935 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.860 $\pm$ 0.066  $\chi^2$ /NDF: 60941.2/1

asym\_sam\_1357\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1022.759+/-551.186  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4921.577+/-2513.027  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

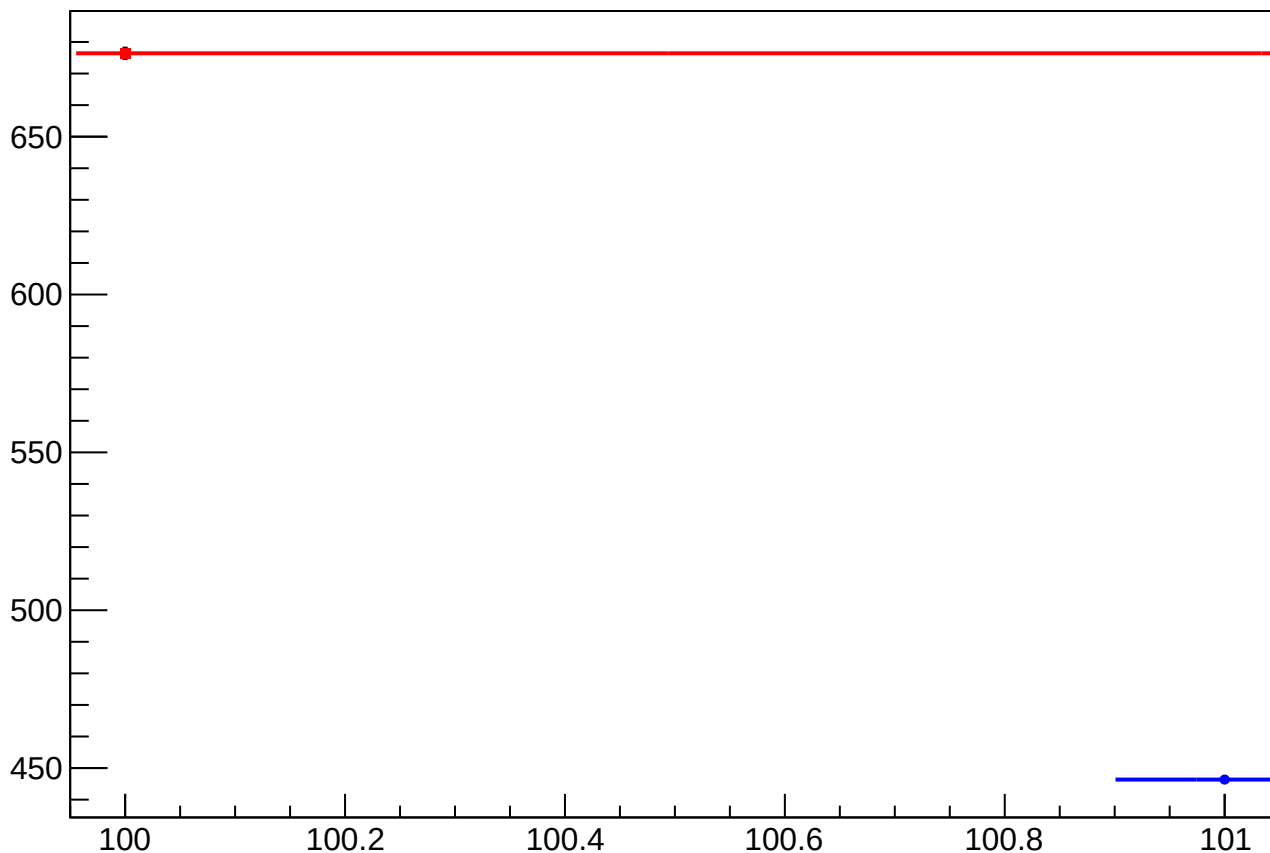
Right: -749.924+/-538.388  $\chi^2/\text{NDF}$ : 5.3/1

In: -1022.759+/-551.186  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -749.924+/-538.388  $\chi^2/\text{NDF}$ : 5.3/1

asym\_sam\_1357\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 446.358+/-0.390  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 676.417+/-1.777  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

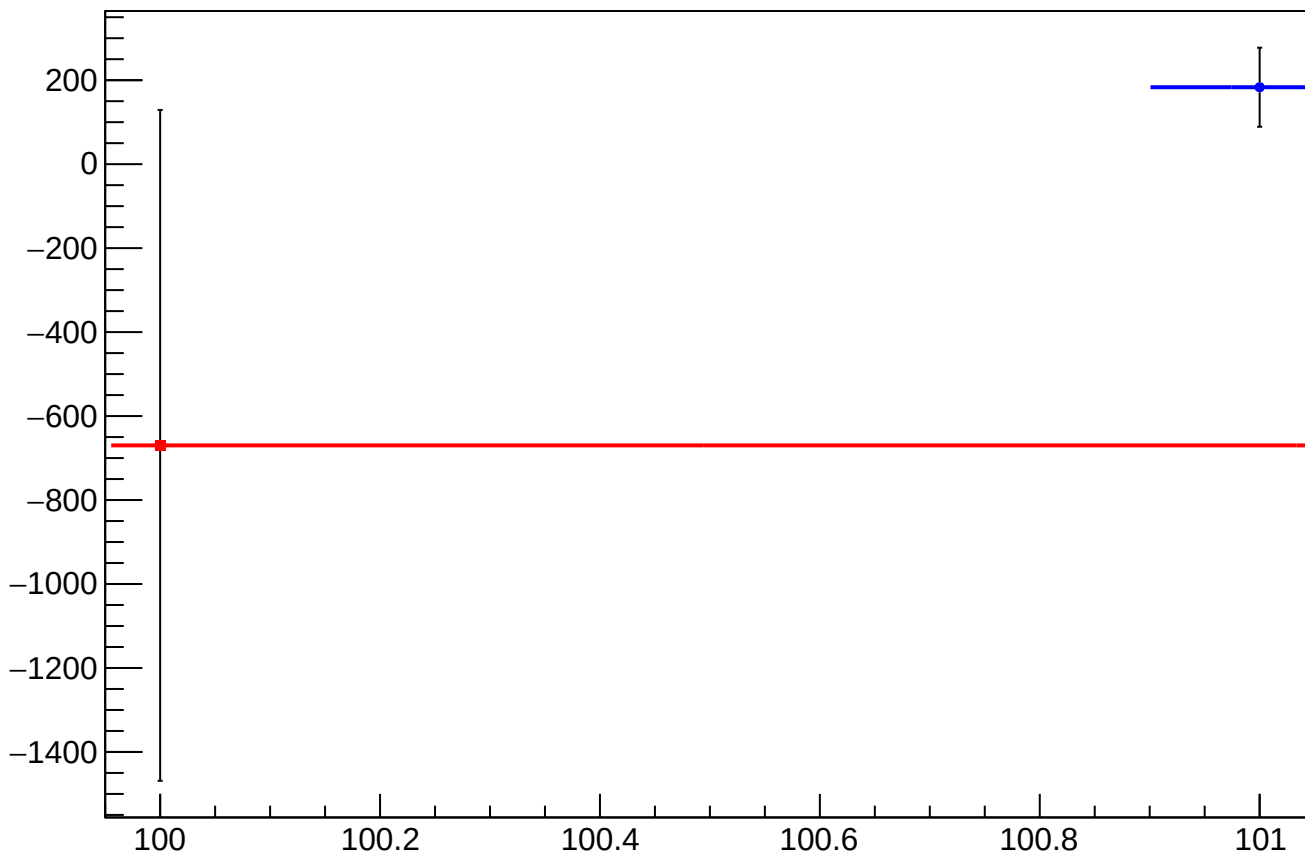
Right: 456.918+/-0.381  $\chi^2/\text{NDF}$ : 15992.1/1

In: 446.358+/-0.390  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 456.918+/-0.381  $\chi^2/\text{NDF}$ : 15992.1/1

eigen\_dit\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 183.255+/-94.190  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -669.811+/-798.895  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

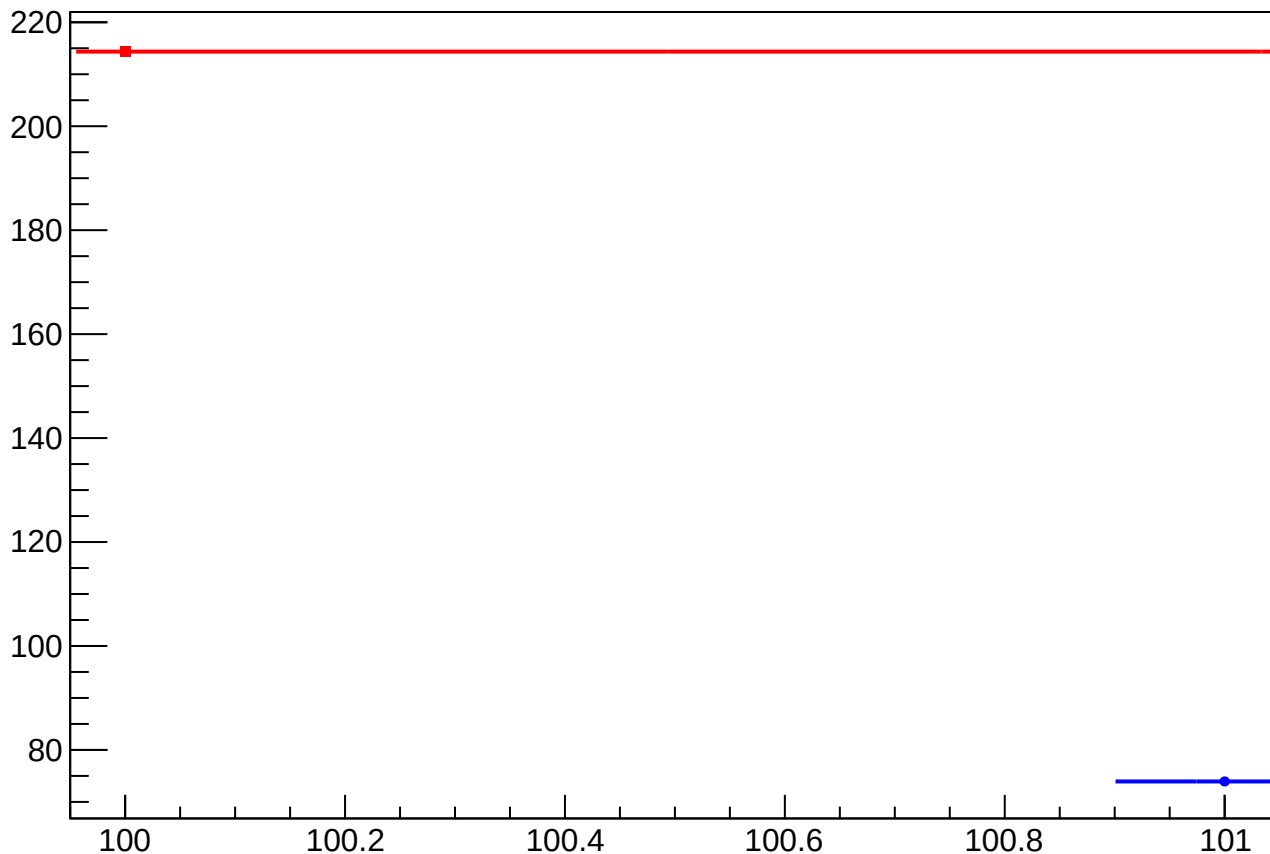
Right: 171.559+/-93.542  $\chi^2$ /NDF: 1.1/1

In: 183.255+/-94.190  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 171.559+/-93.542  $\chi^2$ /NDF: 1.1/1

eigen\_dit\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 73.936 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 214.355 $\pm$ 0.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 75.861 $\pm$ 0.066  $\chi^2$ /NDF: 60941.2/1

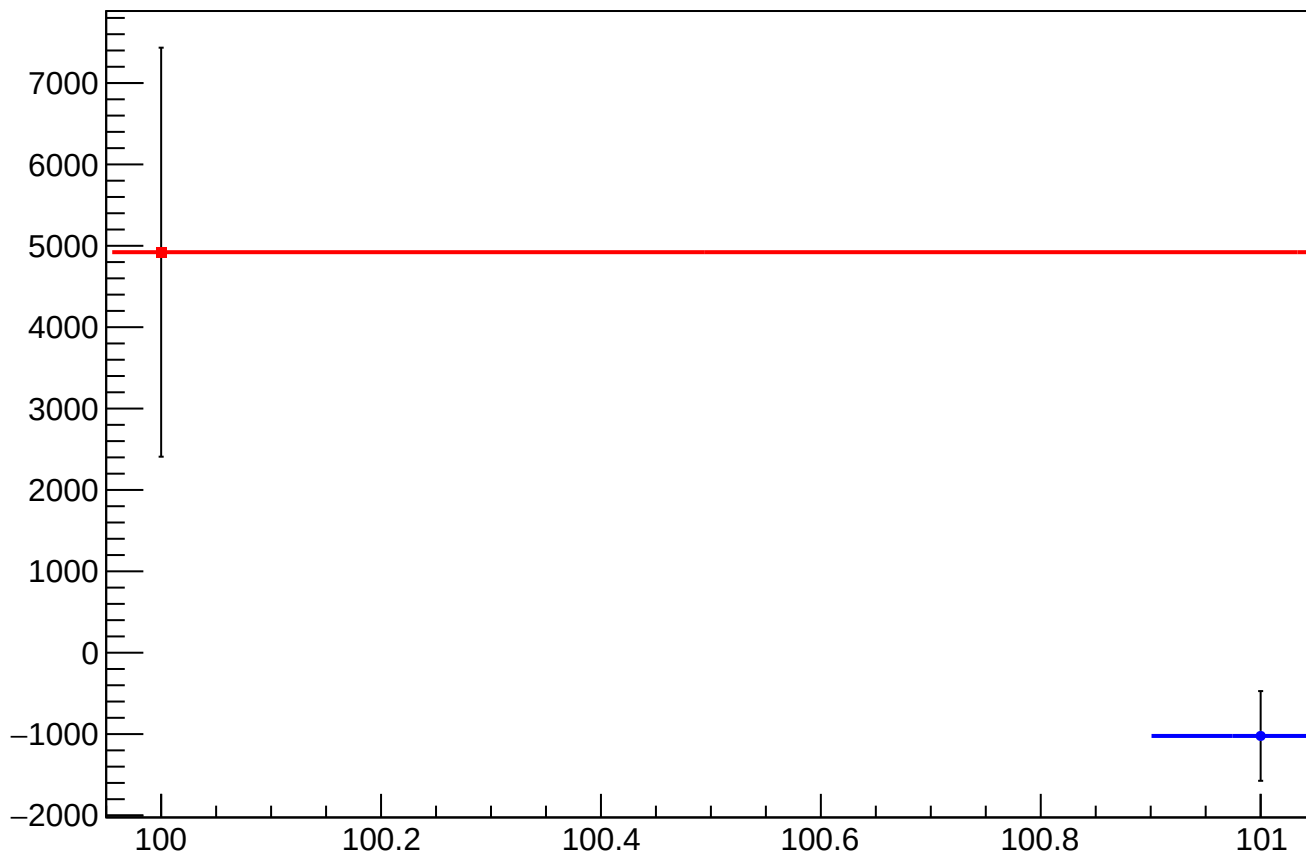
In: 73.936 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 75.861 $\pm$ 0.066  $\chi^2$ /NDF: 60941.2/1



asym\_sam\_1357\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -1022.755+/-551.184  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4921.556+/-2513.016  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

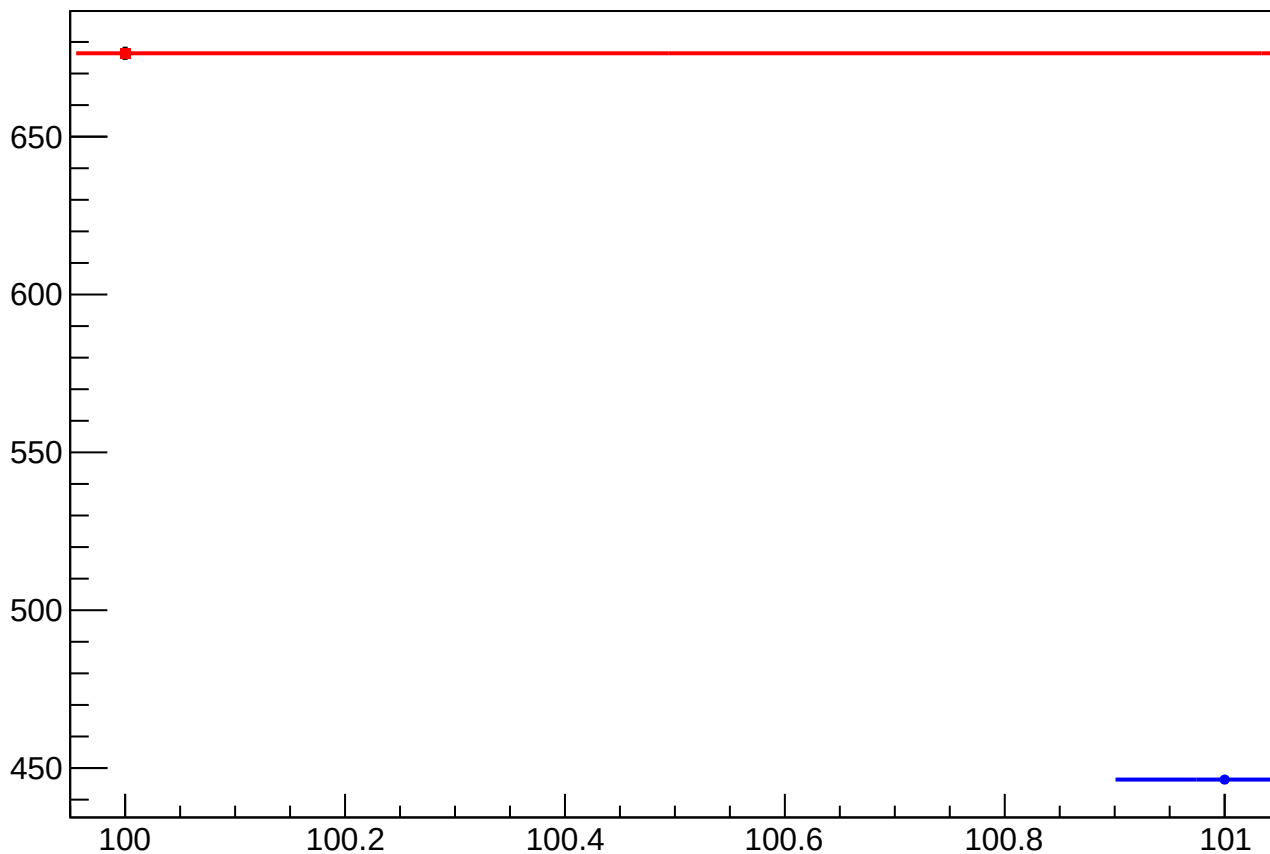
Right: -749.921+/-538.386  $\chi^2/\text{NDF}$ : 5.3/1

In: -1022.755+/-551.184  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -749.921+/-538.386  $\chi^2/\text{NDF}$ : 5.3/1

asym\_sam\_1357\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 446.356 $\pm$ 0.390  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 676.414 $\pm$ 1.777  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

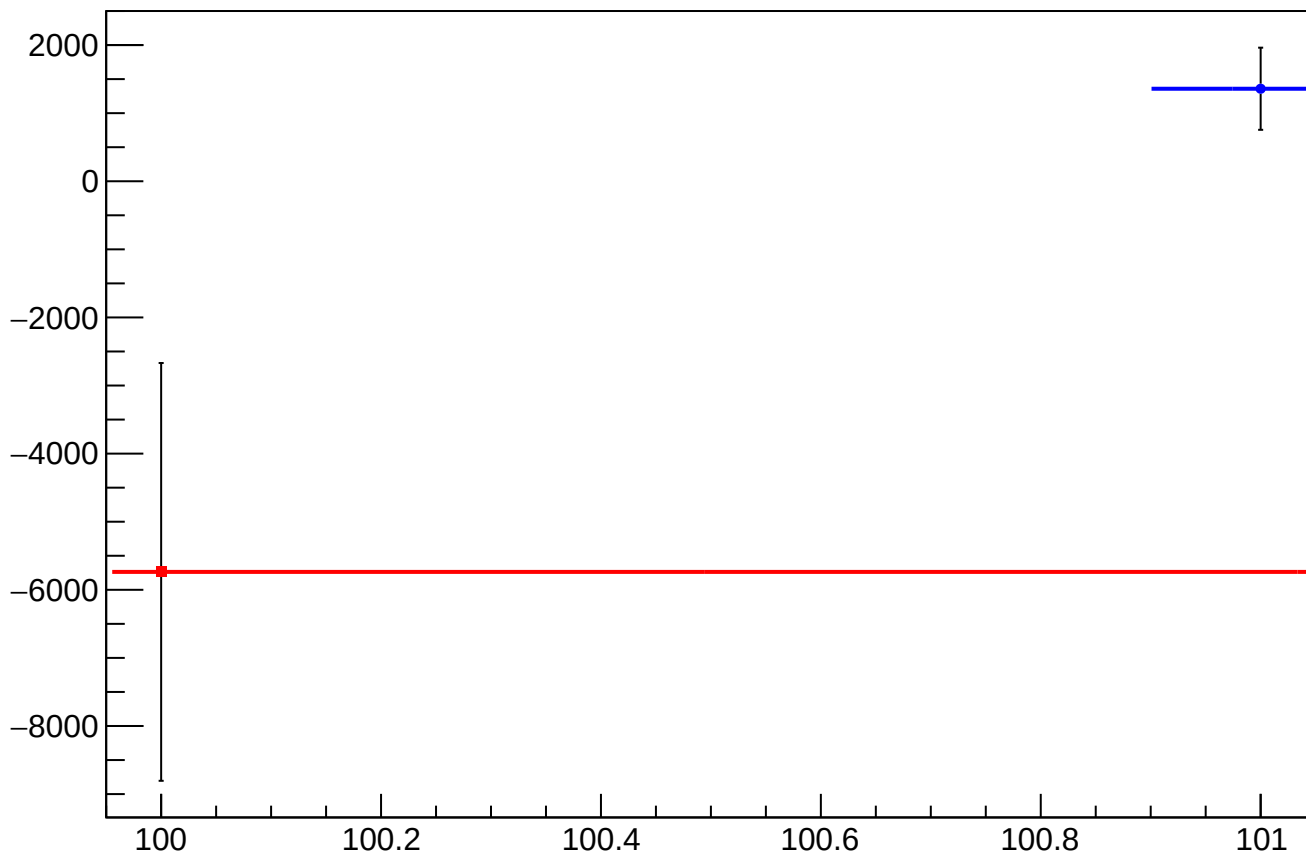
Right: 456.916 $\pm$ 0.381  $\chi^2$ /NDF: 15992.1/1

In: 446.356 $\pm$ 0.390  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 456.916 $\pm$ 0.381  $\chi^2$ /NDF: 15992.1/1

asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 1358.560+/-603.178  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5737.039+/-3067.804  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

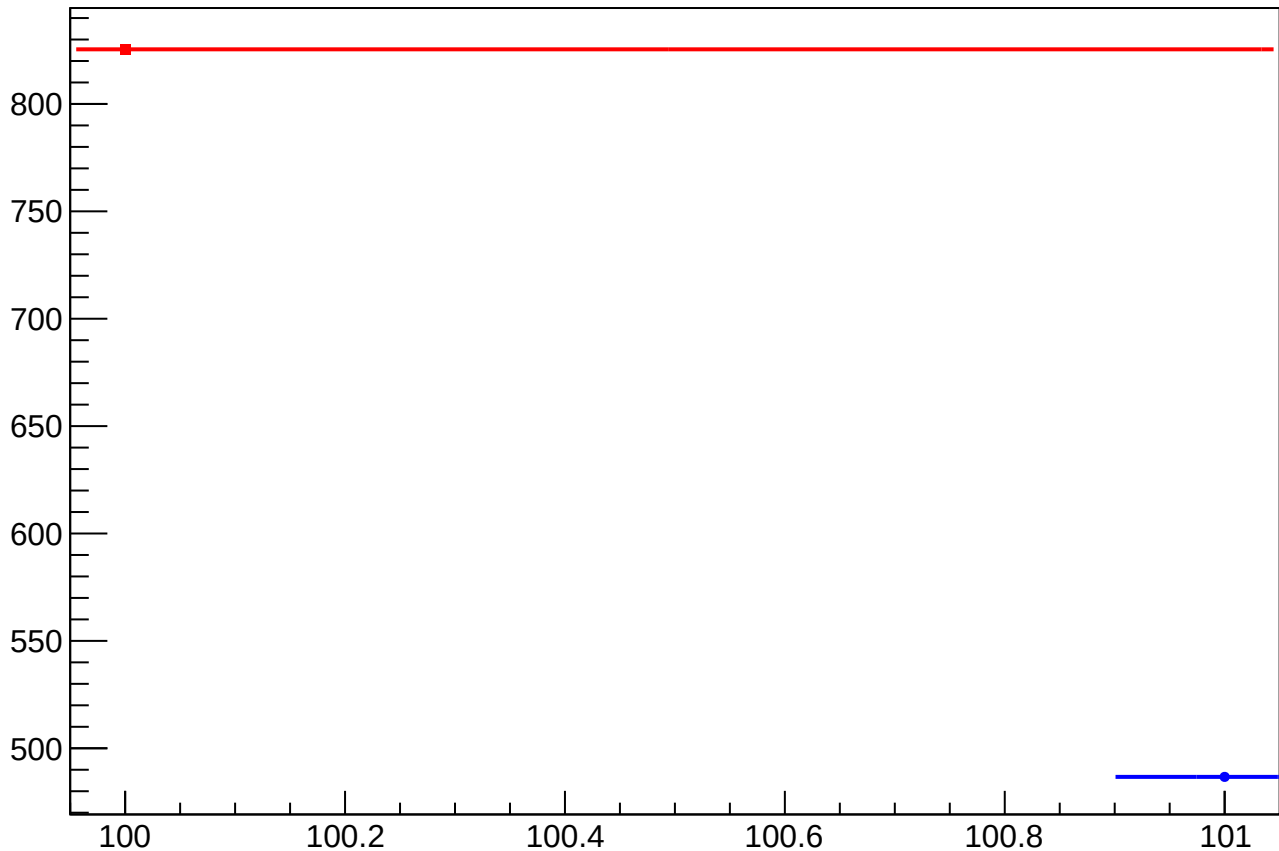
Right: 1094.469+/-591.847  $\chi^2/\text{NDF}$ : 5.2/1

In: 1358.560+/-603.178  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1094.469+/-591.847  $\chi^2/\text{NDF}$ : 5.2/1

asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 486.679 $\pm$ 0.427  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 825.433 $\pm$ 2.169  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

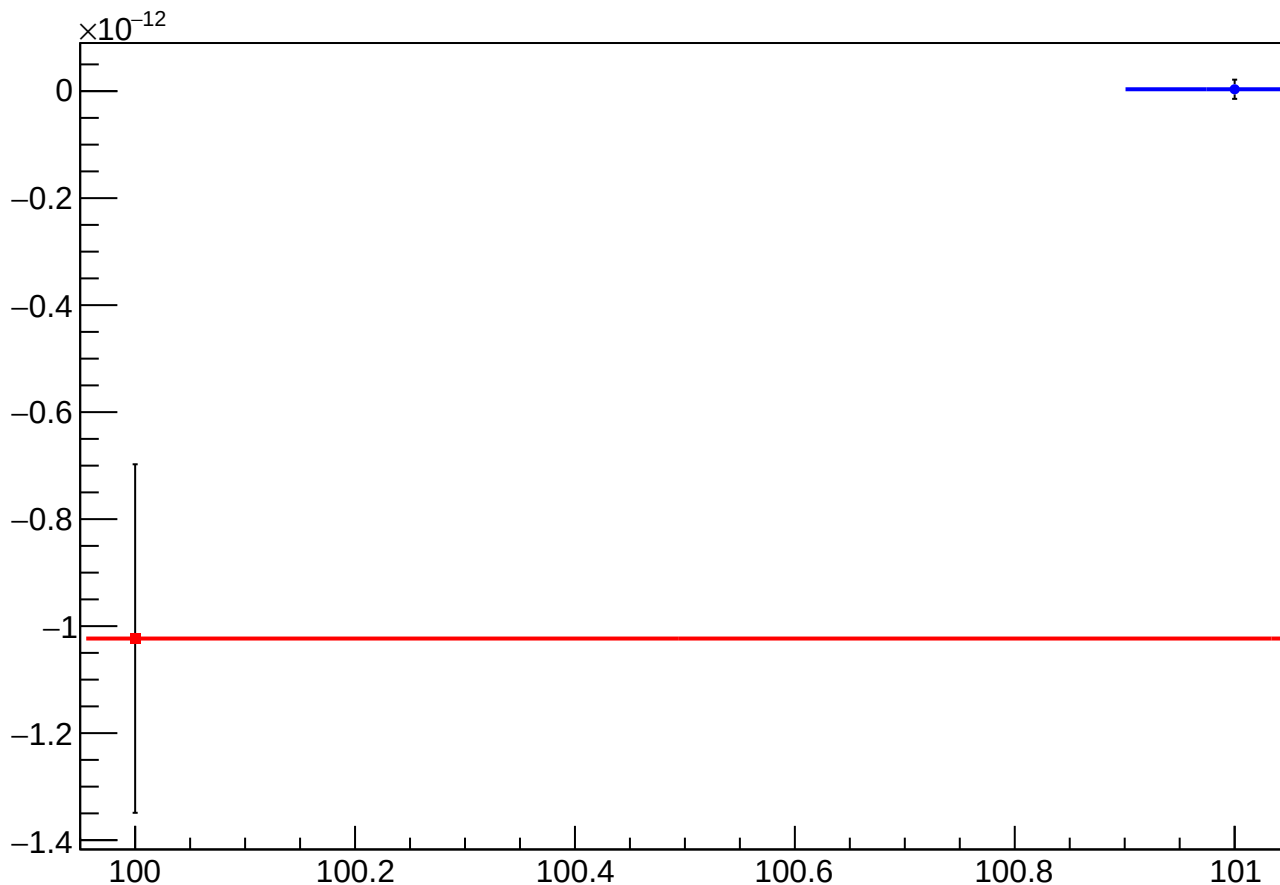
Right: 499.287 $\pm$ 0.418  $\chi^2$ /NDF: 23478.6/1

In: 486.679 $\pm$ 0.427  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 499.287 $\pm$ 0.418  $\chi^2$ /NDF: 23478.6/1

asym\_sam\_1357\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

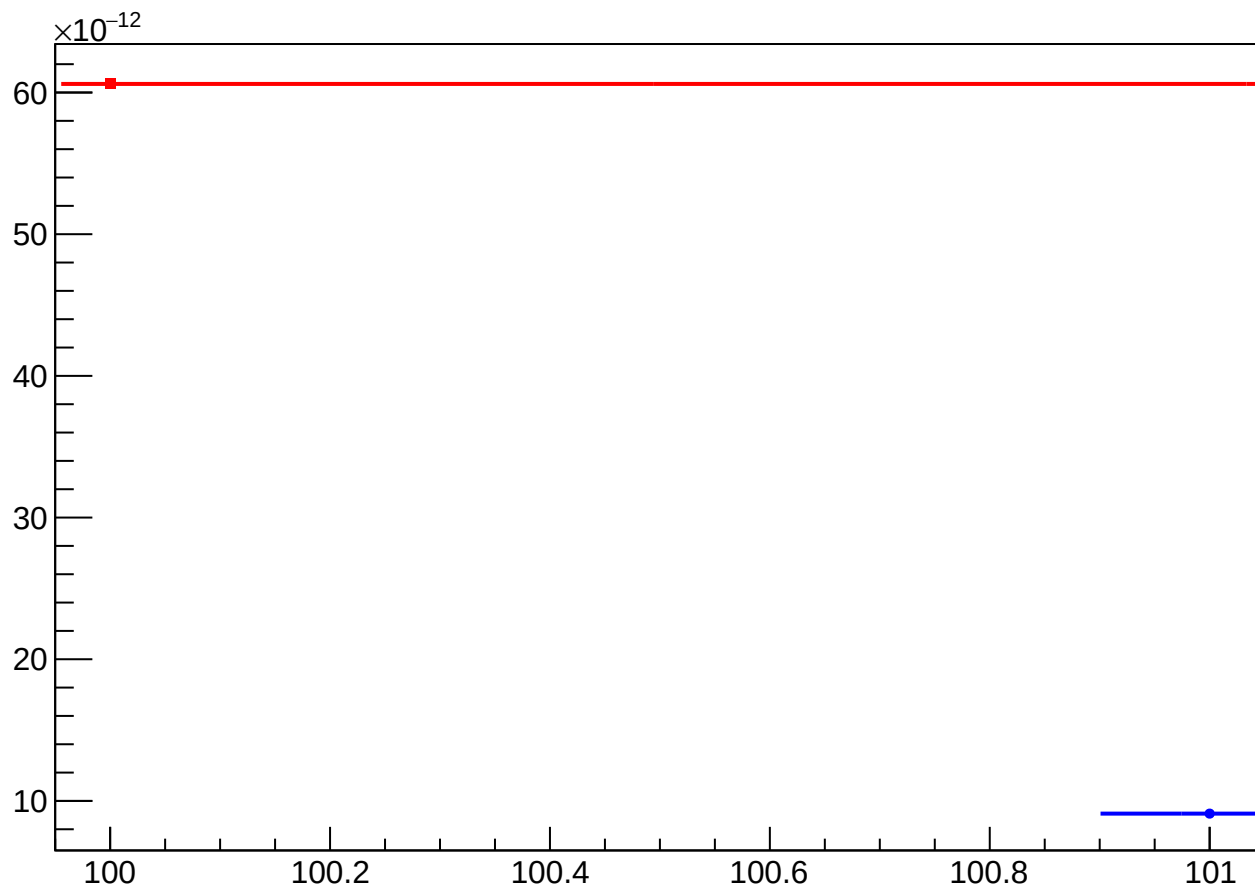
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 9.9/1

asym\_sam\_1357\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

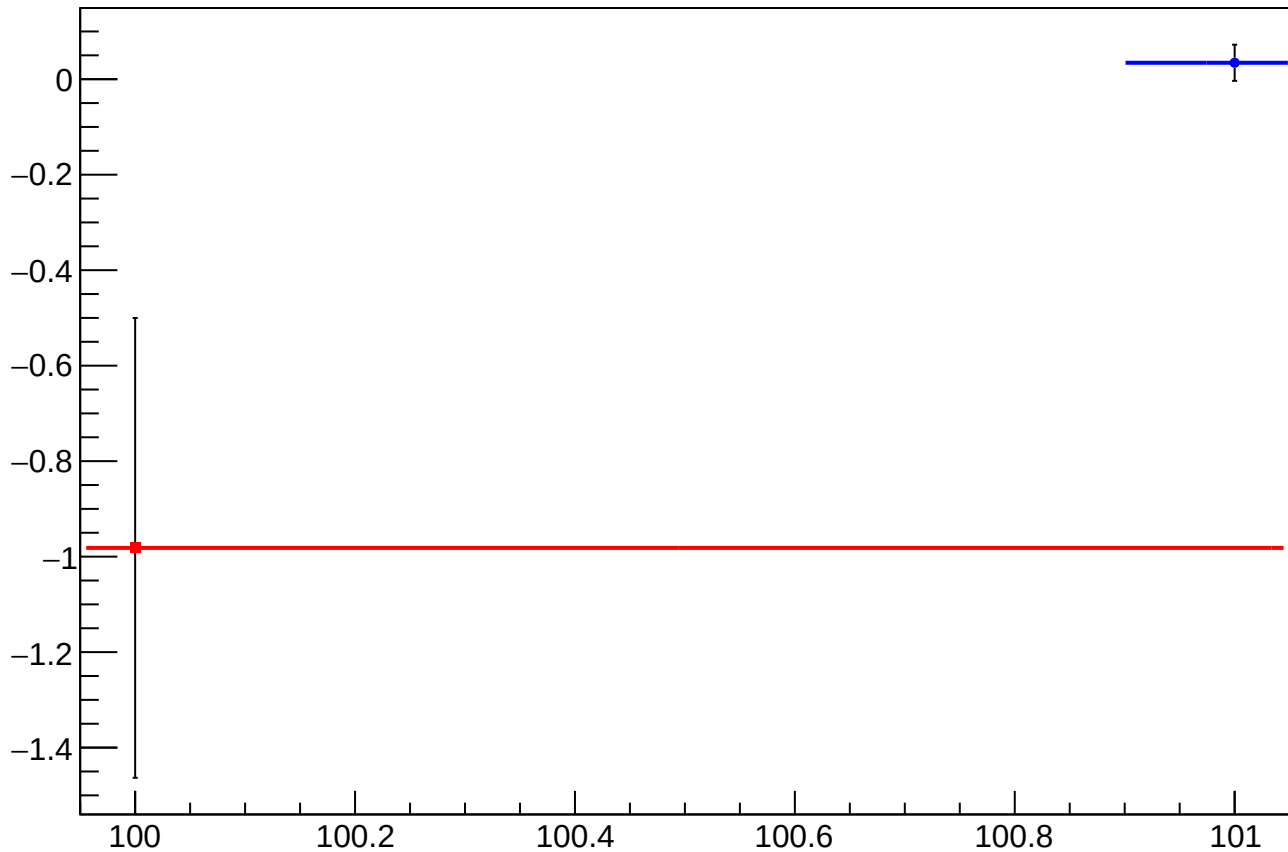
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 49849.7/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 49849.7/1

asym\_sam\_1357\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $0.034 \pm 0.038$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.982 \pm 0.482$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

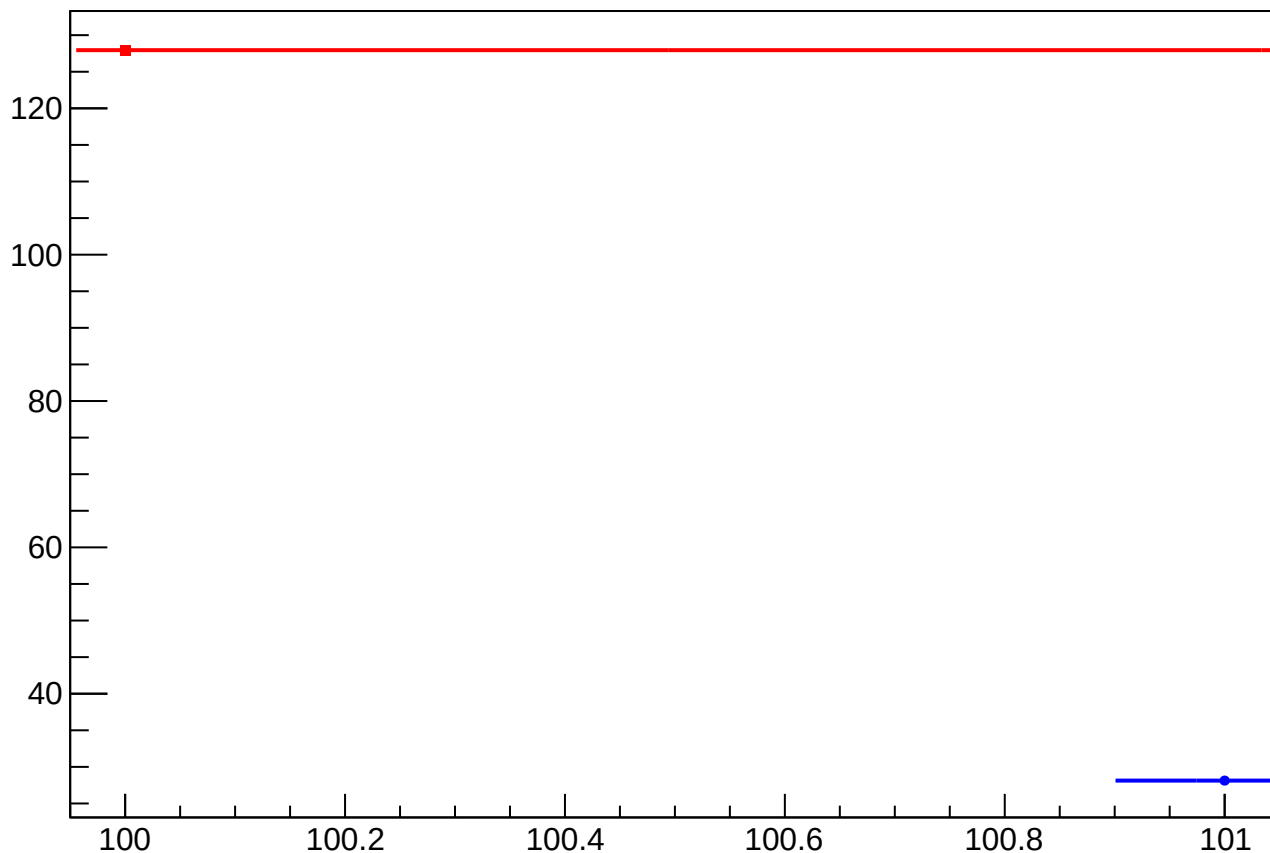
Right:  $0.028 \pm 0.038$   $\chi^2/\text{NDF}$ : 4.4/1

In:  $0.034 \pm 0.038$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.028 \pm 0.038$   $\chi^2/\text{NDF}$ : 4.4/1

asym\_sam\_1357\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.125 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.950 $\pm$ 0.341  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 28.740 $\pm$ 0.027  $\chi^2$ /NDF: 85418.3/1

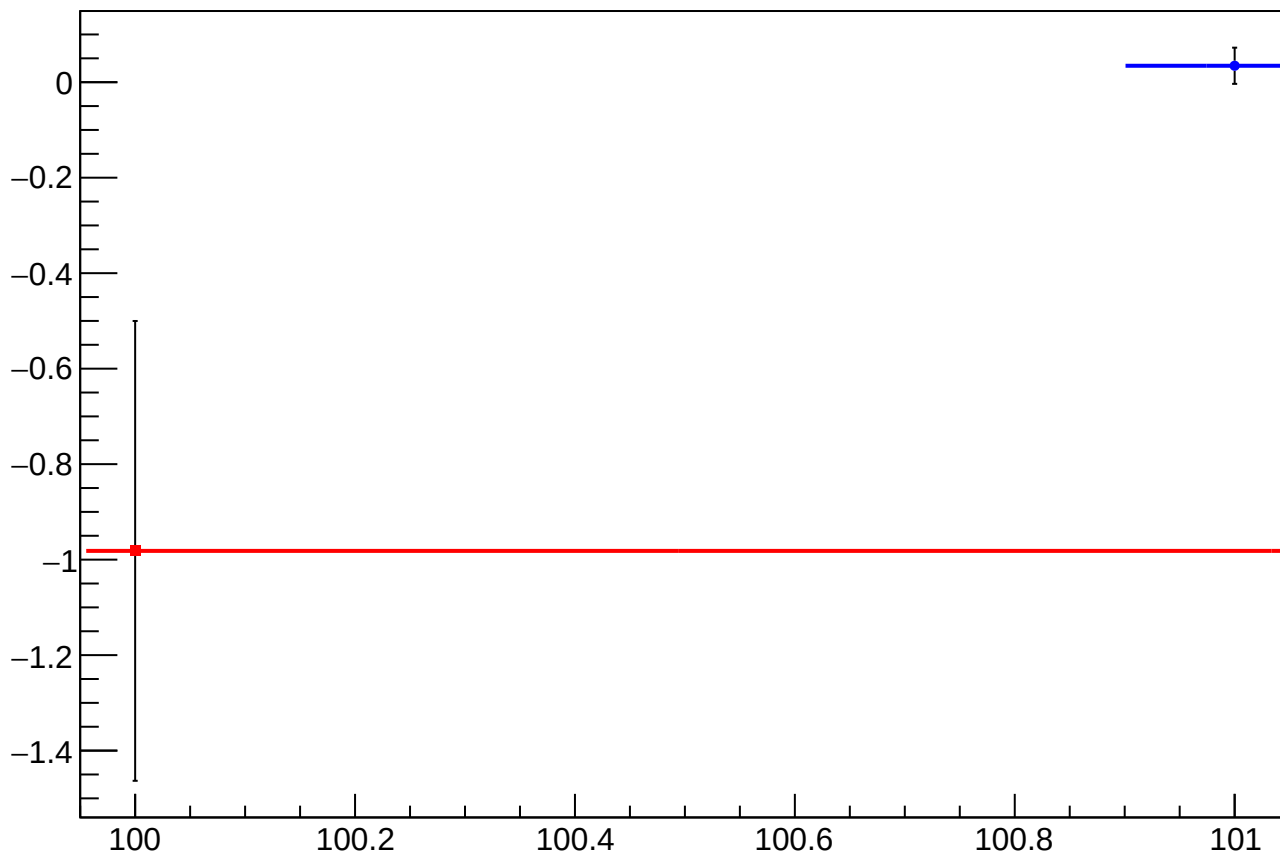
In: 28.125 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.740 $\pm$ 0.027  $\chi^2$ /NDF: 85418.3/1



asym\_sam\_1357\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.982 $\pm$ 0.482  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

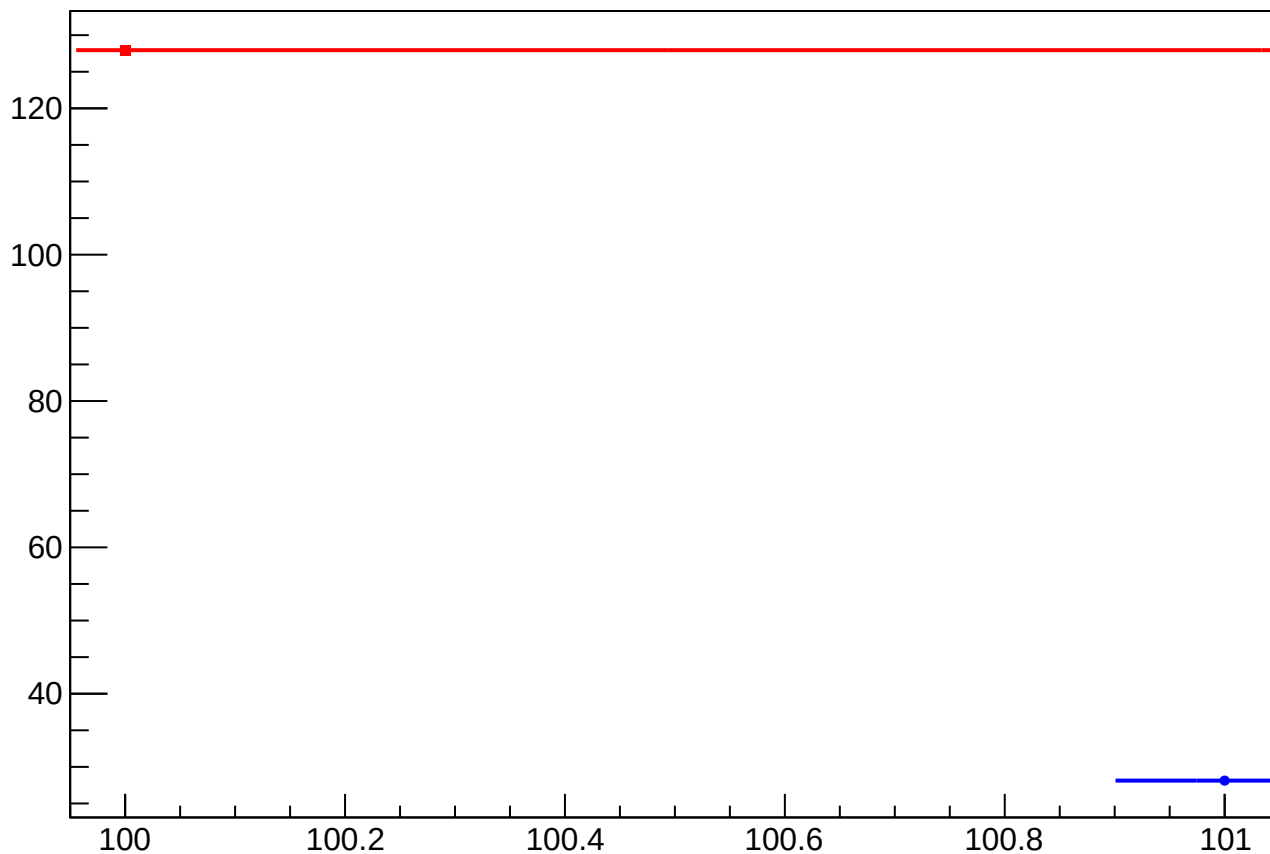
Right: 0.028 $\pm$ 0.038  $\chi^2$ /NDF: 4.4/1

In: 0.034 $\pm$ 0.038  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.028 $\pm$ 0.038  $\chi^2$ /NDF: 4.4/1

asym\_sam\_1357\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.125 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.950 $\pm$ 0.341  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

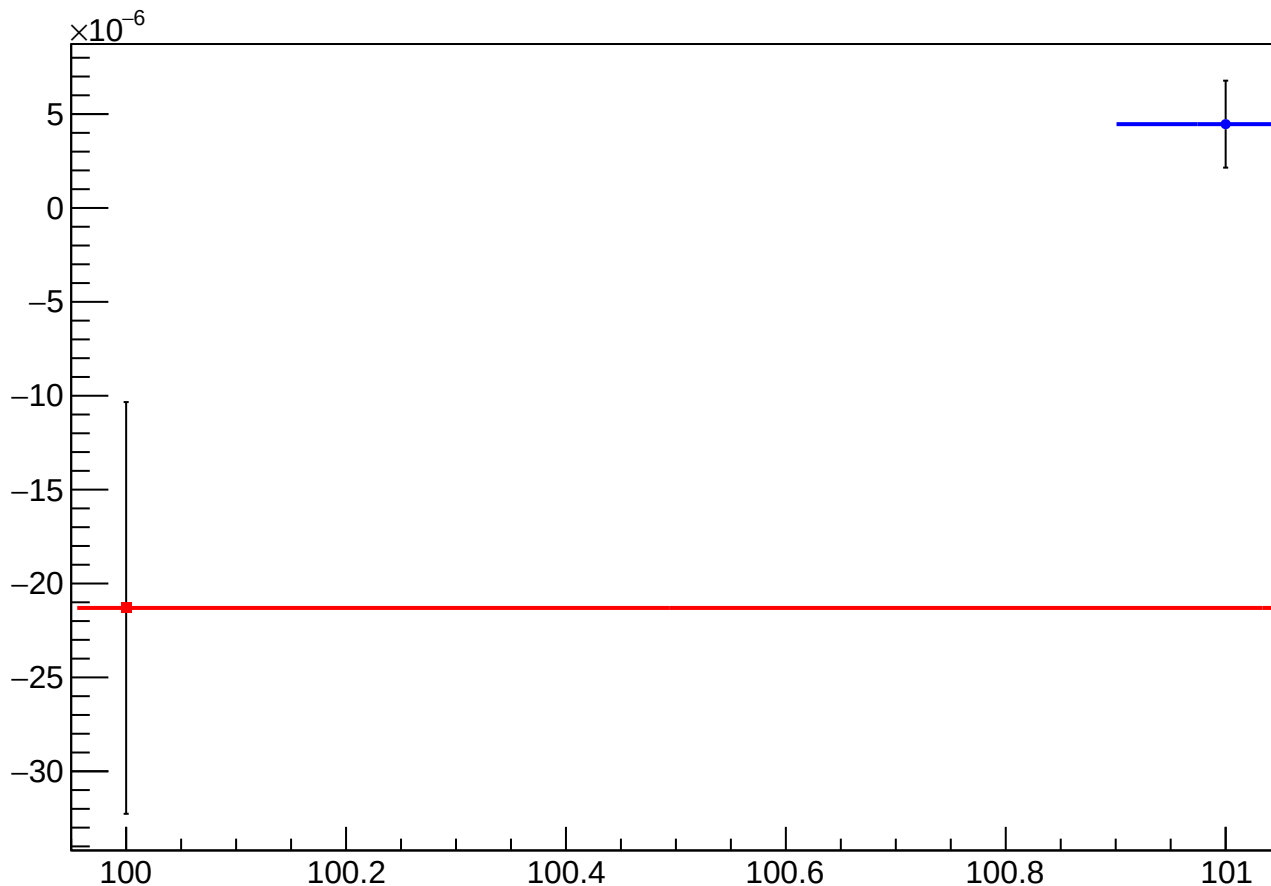
Right: 28.740 $\pm$ 0.027  $\chi^2$ /NDF: 85418.3/1

In: 28.125 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.740 $\pm$ 0.027  $\chi^2$ /NDF: 85418.3/1

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

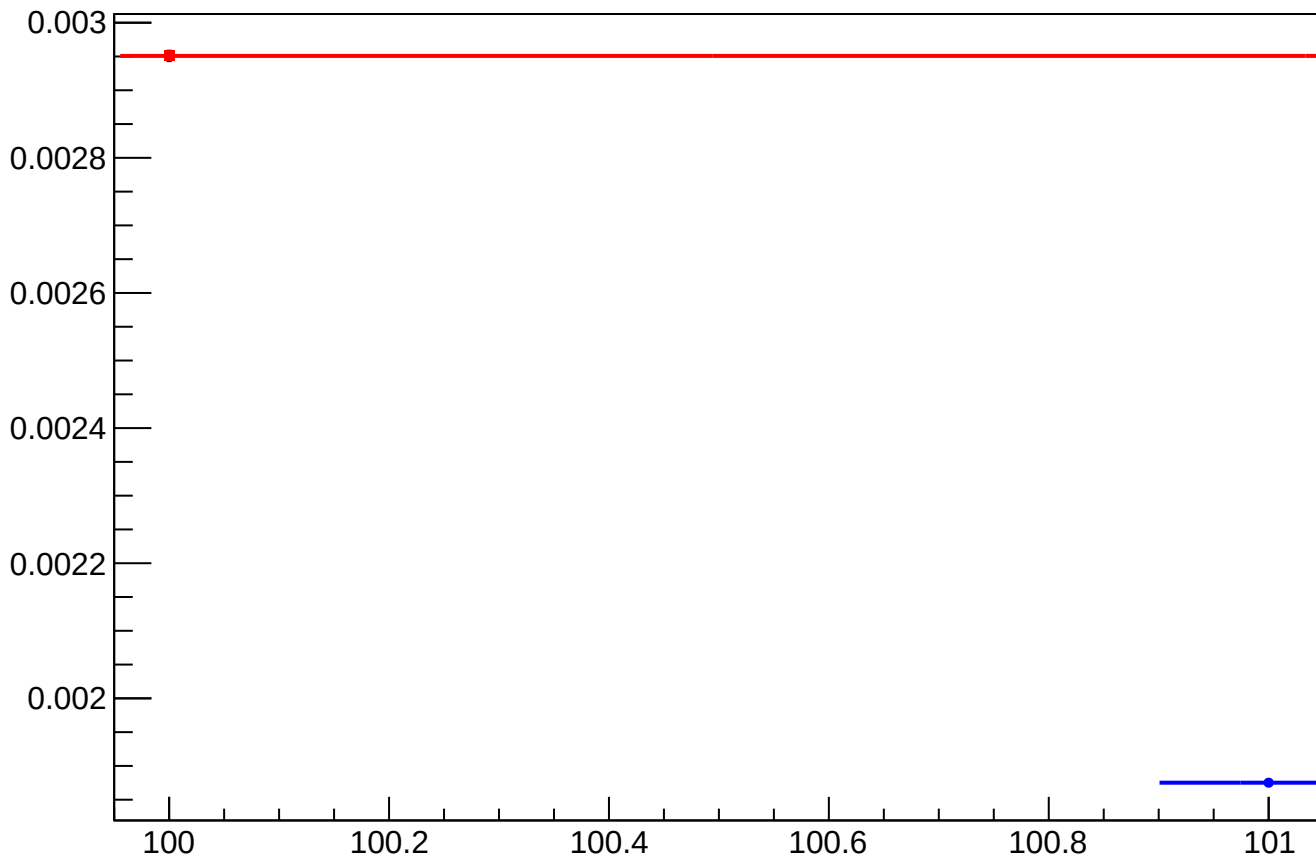
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 5.3/1

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

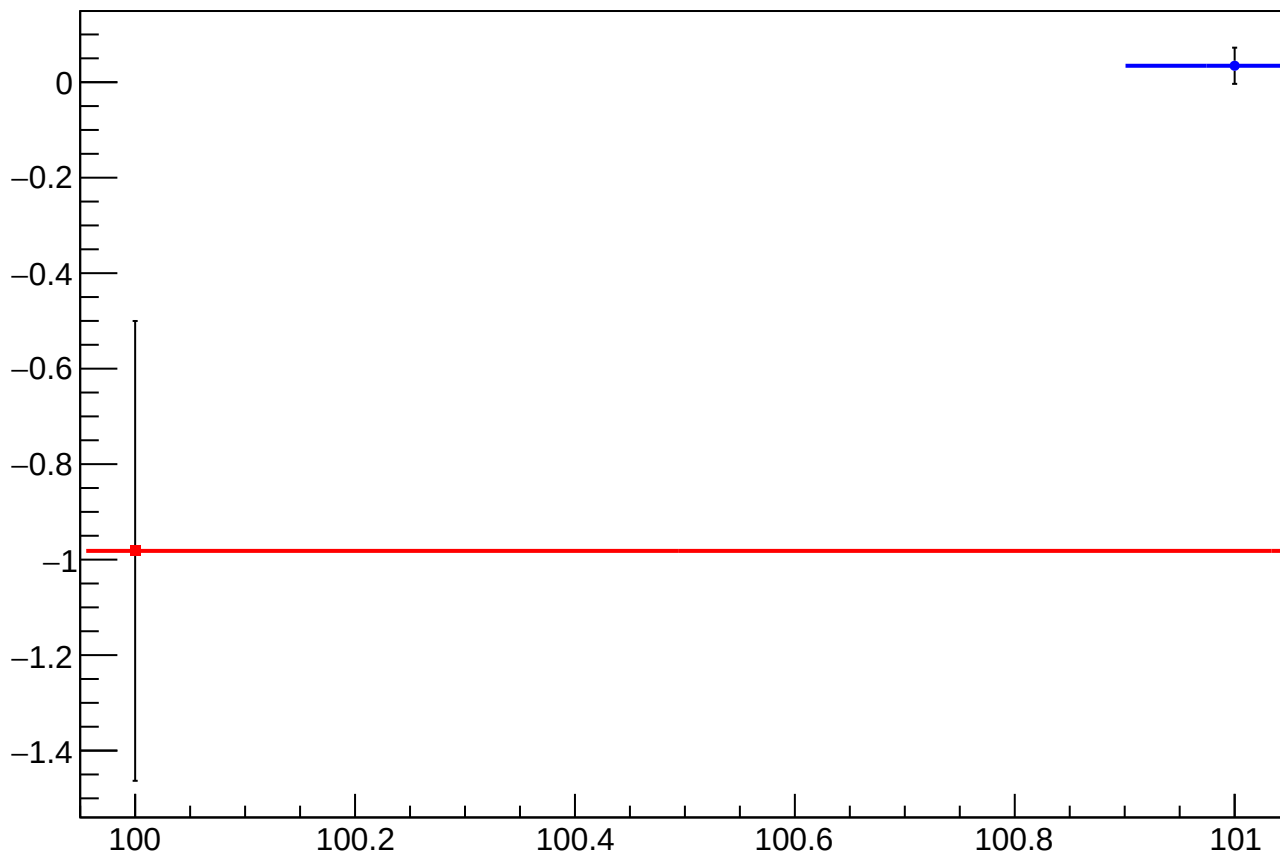
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 18432.4/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 18432.4/1

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $0.034 \pm 0.038$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.982 \pm 0.482$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

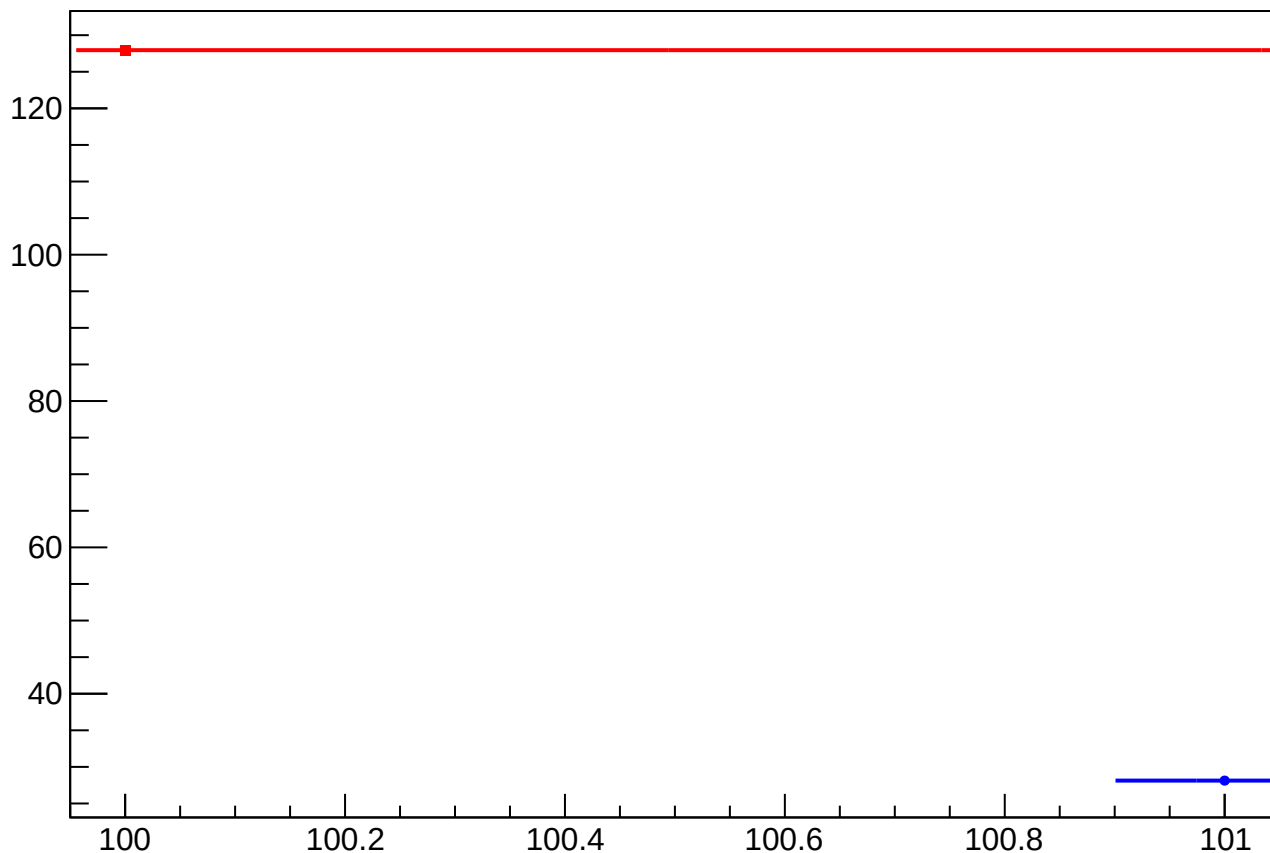
Right:  $0.028 \pm 0.038$   $\chi^2/\text{NDF}$ : 4.4/1

In:  $0.034 \pm 0.038$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.028 \pm 0.038$   $\chi^2/\text{NDF}$ : 4.4/1

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.126 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 127.953 $\pm$ 0.341  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

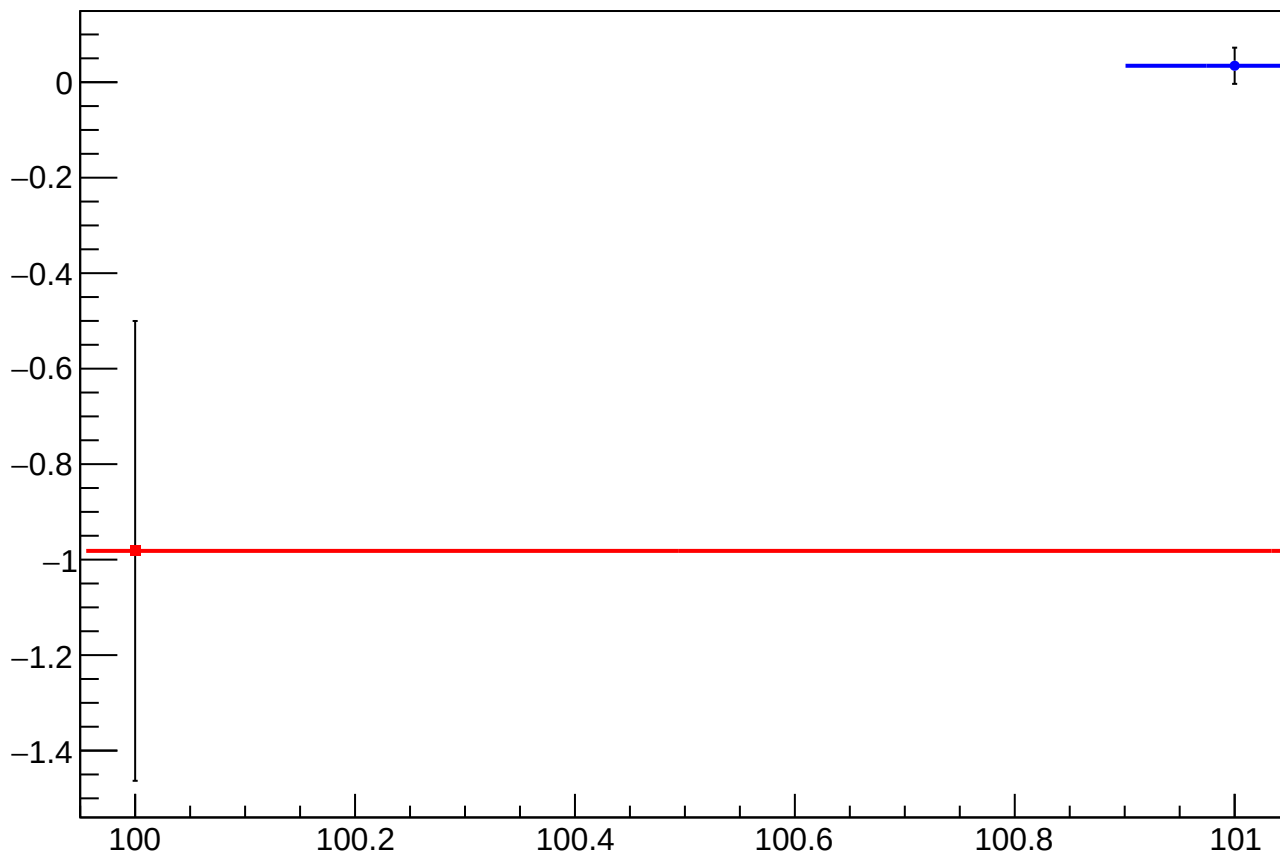
Right: 28.741 $\pm$ 0.027  $\chi^2$ /NDF: 85417.4/1

In: 28.126 $\pm$ 0.027  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 28.741 $\pm$ 0.027  $\chi^2$ /NDF: 85417.4/1

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.034 $\pm$ 0.038  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.982 $\pm$ 0.482  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

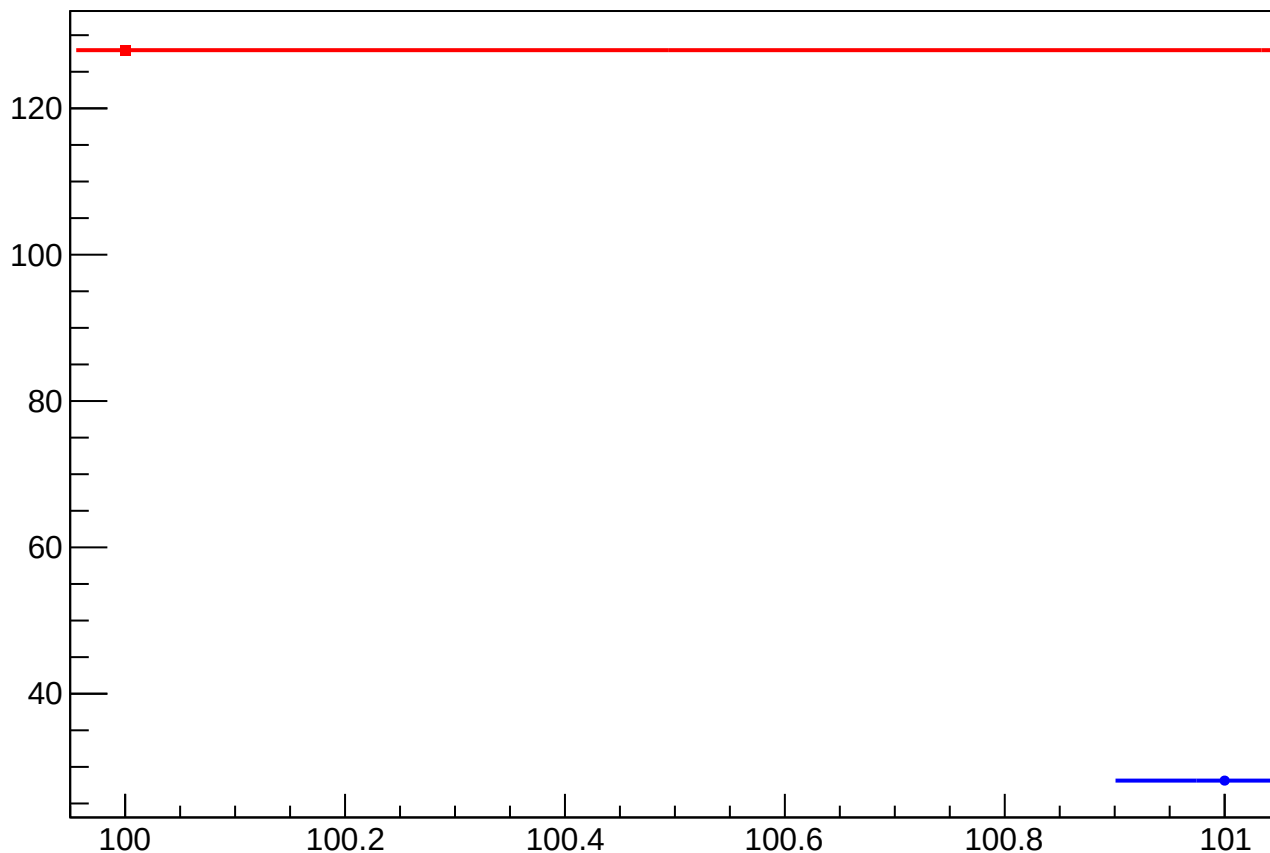
Right: 0.028 $\pm$ 0.038  $\chi^2$ /NDF: 4.4/1

In: 0.034 $\pm$ 0.038  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.028 $\pm$ 0.038  $\chi^2$ /NDF: 4.4/1

asym\_sam\_1357\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 28.126+/-0.027  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 127.953+/-0.341  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 28.741+/-0.027  $\chi^2/\text{NDF}$ : 85417.4/1

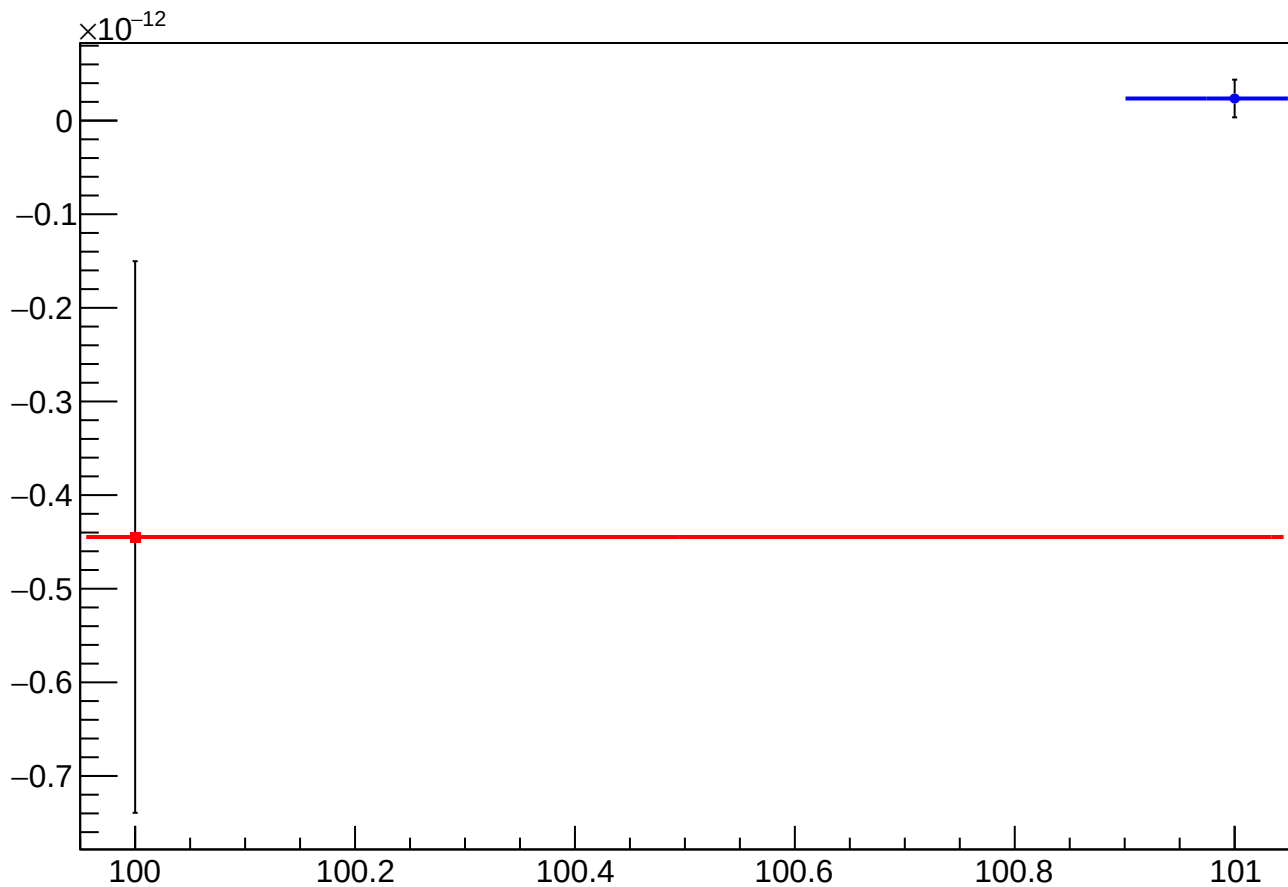
In: 28.126+/-0.027  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 28.741+/-0.027  $\chi^2/\text{NDF}$ : 85417.4/1



asym\_sam\_1357\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

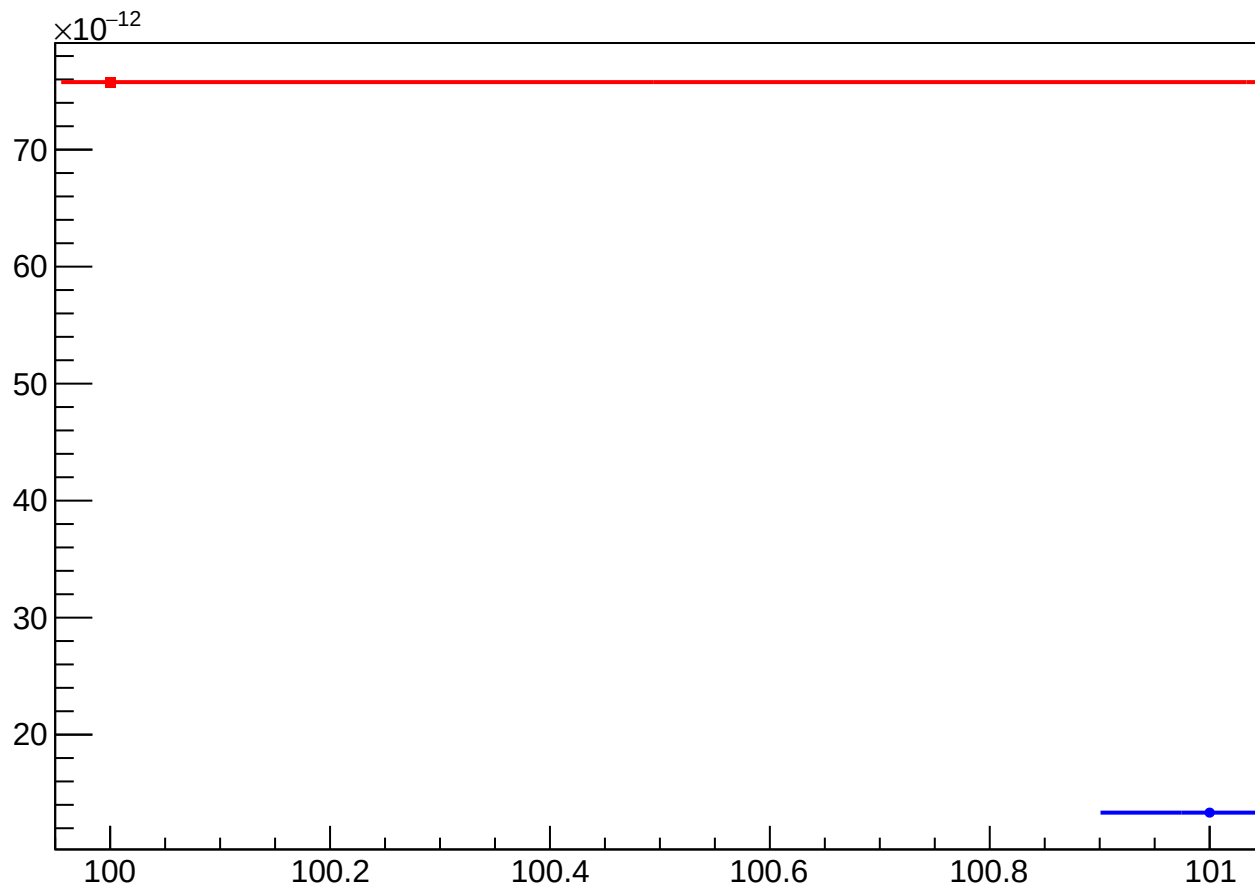
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.5/1

asym\_sam\_1357\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

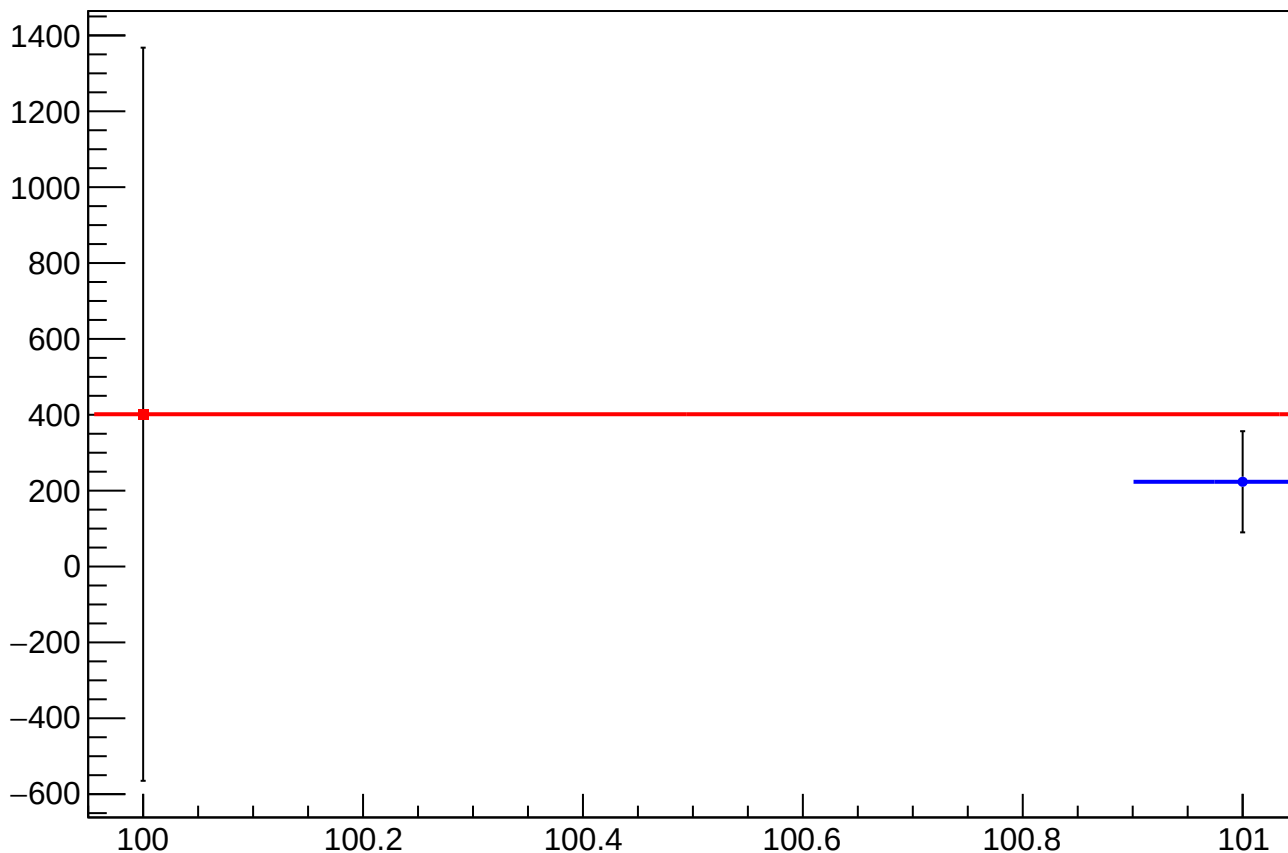
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 89437.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 89437.0/1

reg\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 223.377+/-133.340  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 401.444+/-966.242  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

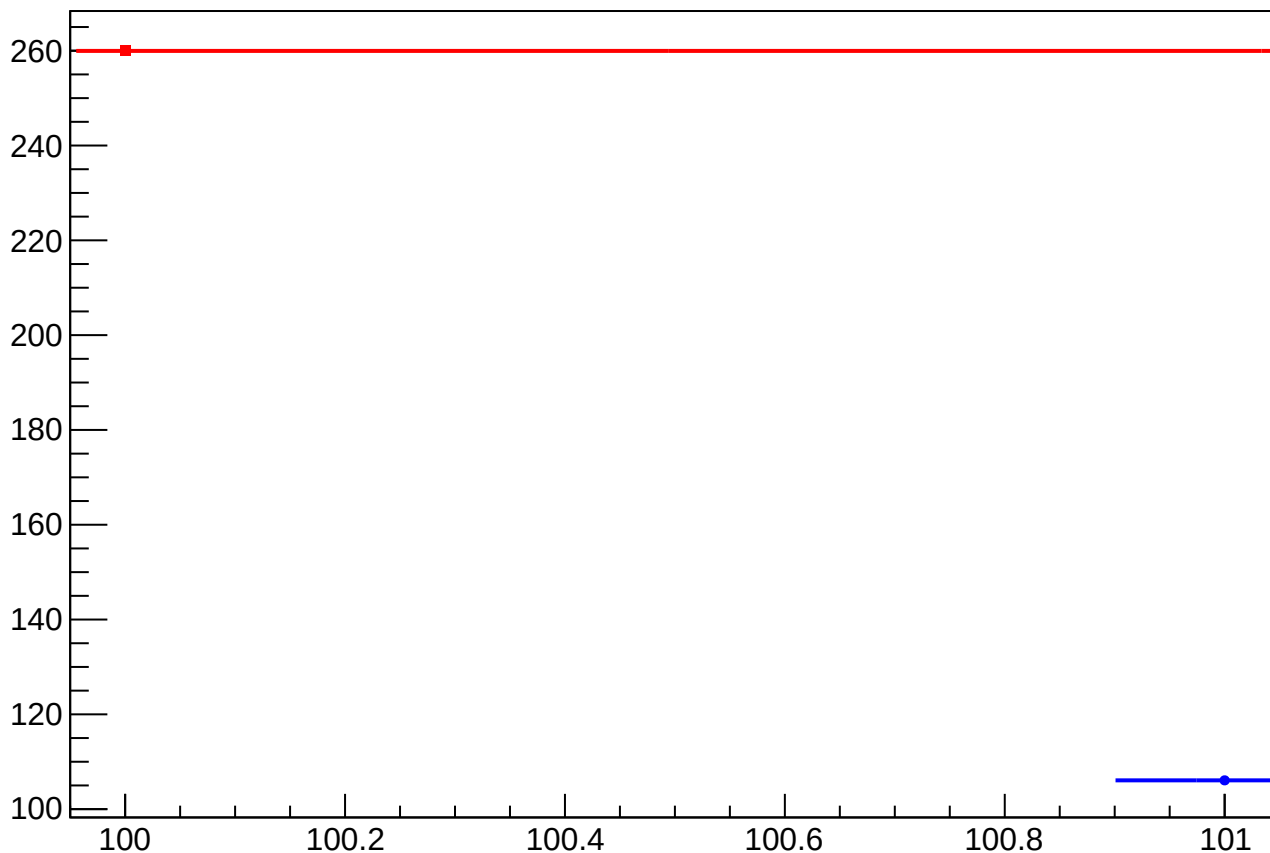
Right: 226.704+/-132.088  $\chi^2/\text{NDF}$ : 0.0/1

In: 223.377+/-133.340  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 226.704+/-132.088  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 106.075+/-0.094  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 259.961+/-0.683  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

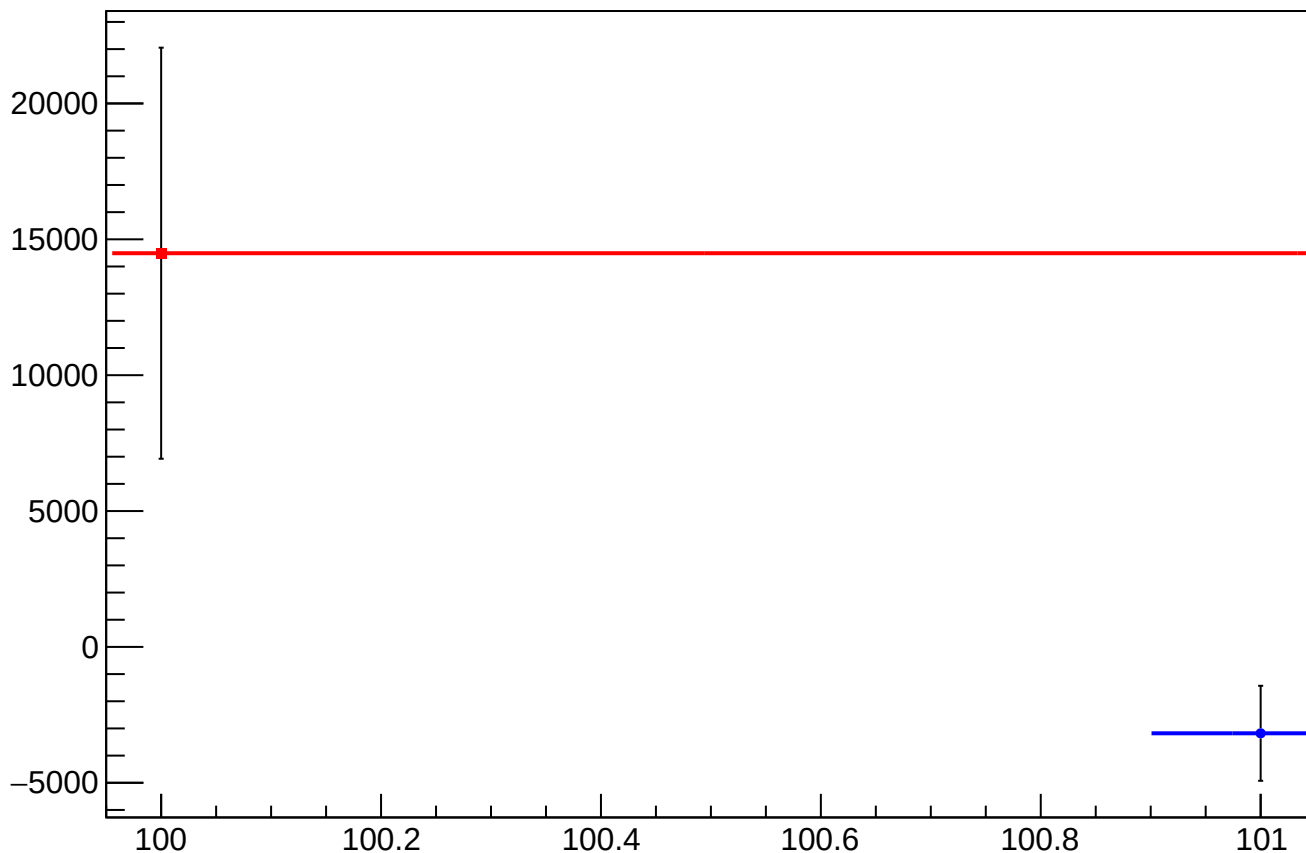
Right: 108.950+/-0.093  $\chi^2/\text{NDF}$ : 49781.0/1

In: 106.075+/-0.094  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.950+/-0.093  $\chi^2/\text{NDF}$ : 49781.0/1

asym\_sam\_2468\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -3179.050+/-1748.061  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14488.662+/-7564.323  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

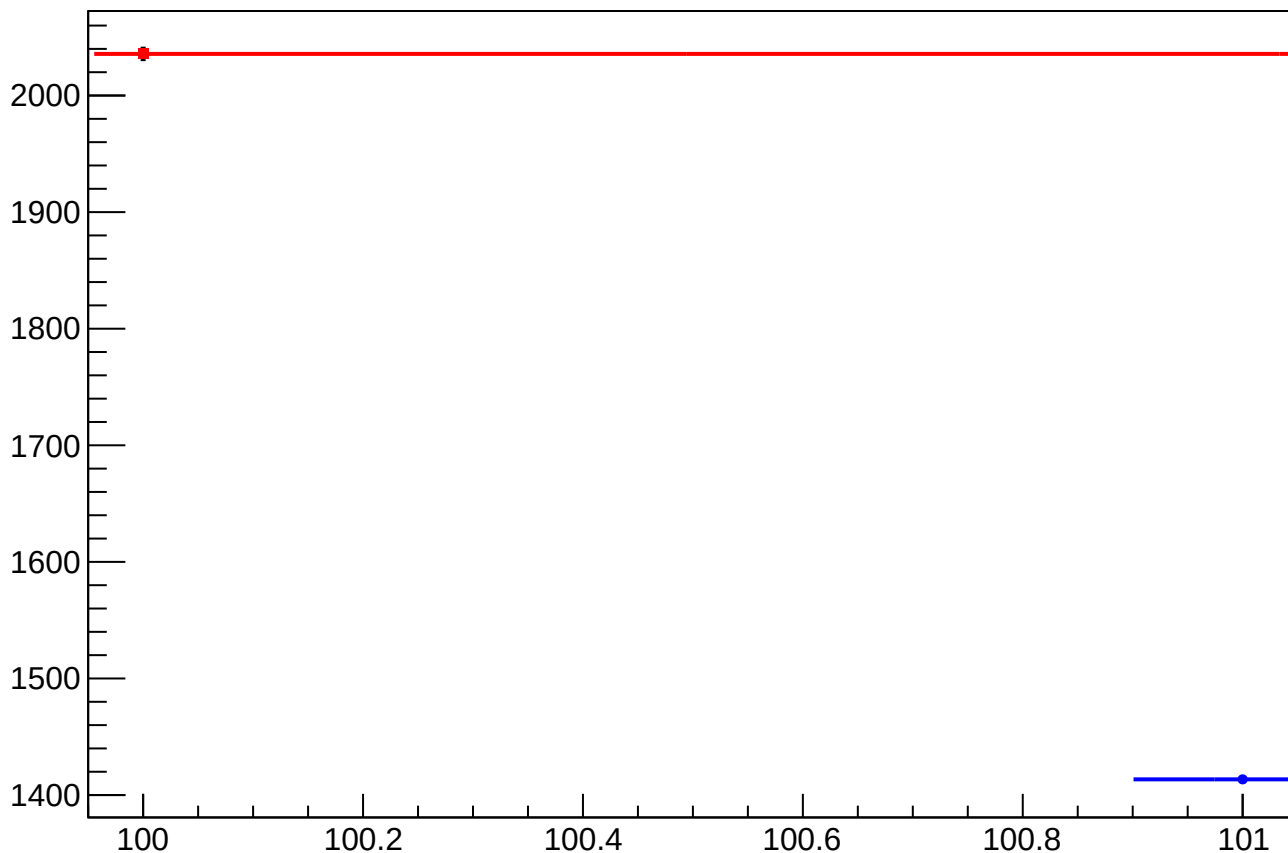
Right: -2283.359+/-1703.174  $\chi^2/\text{NDF}$ : 5.2/1

In: -3179.050+/-1748.061  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2283.359+/-1703.174  $\chi^2/\text{NDF}$ : 5.2/1

asym\_sam\_2468\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 1413.473+/-1.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2035.696+/-5.349  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

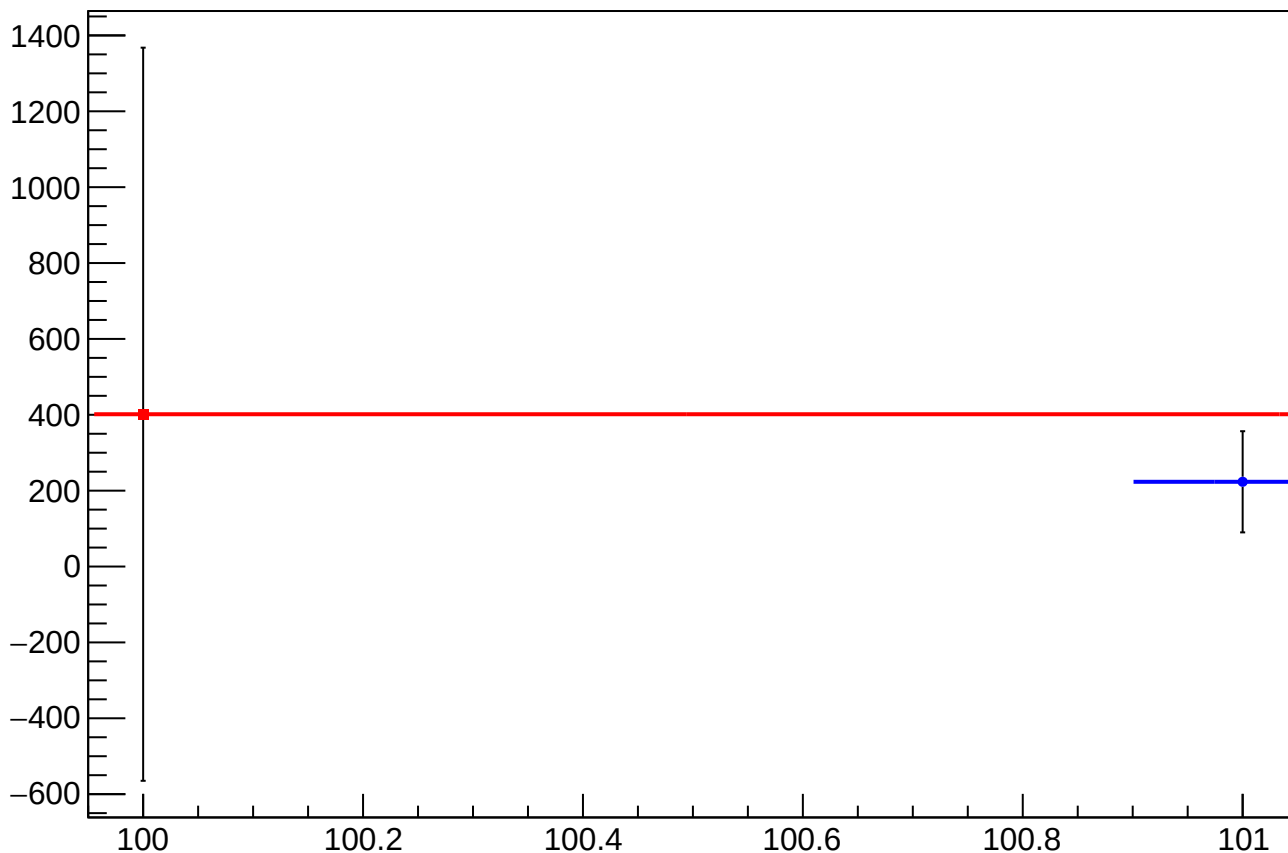
Right: 1445.018+/-1.204  $\chi^2/\text{NDF}$ : 12846.6/1

In: 1413.473+/-1.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1445.018+/-1.204  $\chi^2/\text{NDF}$ : 12846.6/1

cor\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 223.369+/-133.340  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 401.464+/-966.242  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

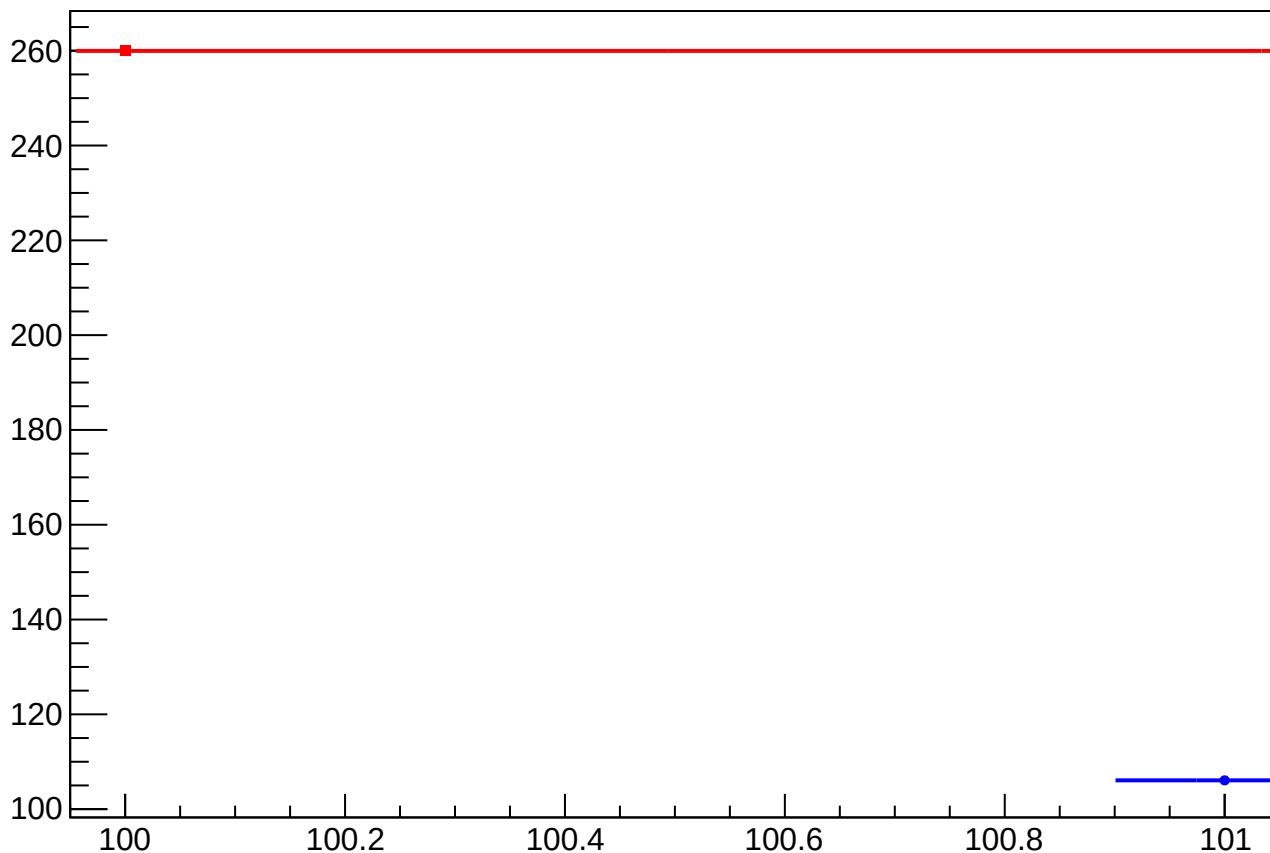
Right: 226.697+/-132.088  $\chi^2/\text{NDF}$ : 0.0/1

In: 223.369+/-133.340  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 226.697+/-132.088  $\chi^2/\text{NDF}$ : 0.0/1

cor\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 106.075 $\pm$ 0.094  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 259.961 $\pm$ 0.683  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 108.950 $\pm$ 0.093  $\chi^2$ /NDF: 49781.0/1

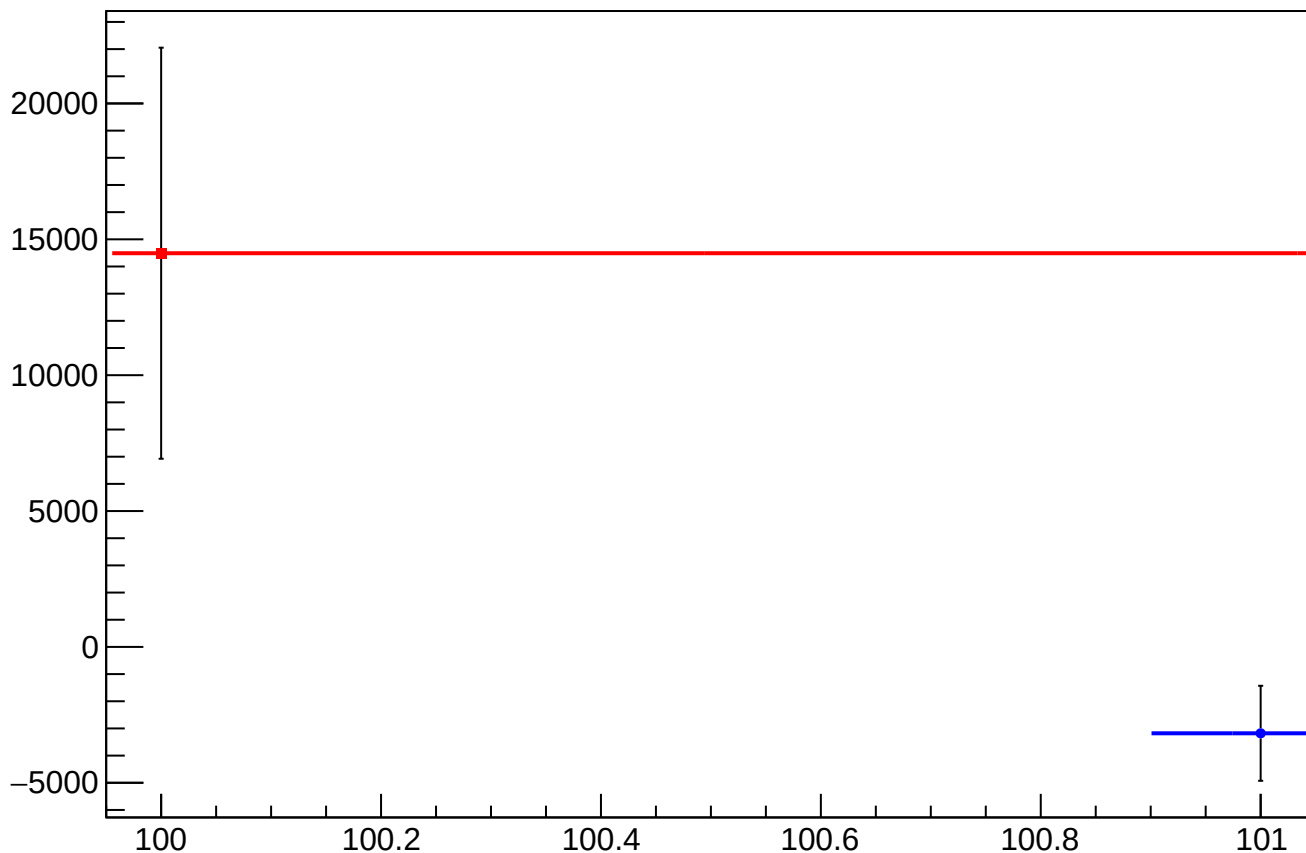
In: 106.075 $\pm$ 0.094  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 108.950 $\pm$ 0.093  $\chi^2$ /NDF: 49781.0/1



asym\_sam\_2468\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3179.035+/-1748.062  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14488.665+/-7564.328  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

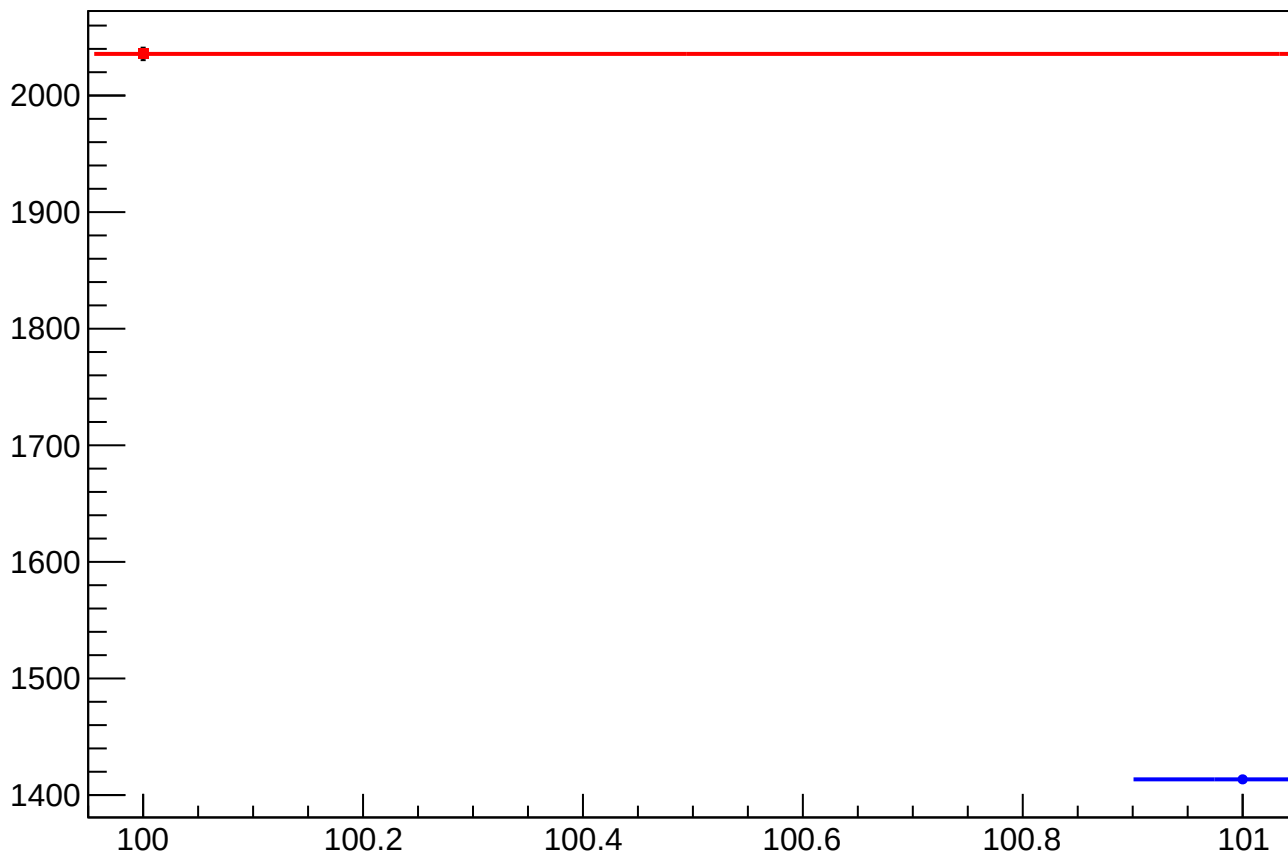
Right: -2283.344+/-1703.176  $\chi^2/\text{NDF}$ : 5.2/1

In: -3179.035+/-1748.062  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2283.344+/-1703.176  $\chi^2/\text{NDF}$ : 5.2/1

asym\_sam\_2468\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1413.475+/-1.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2035.698+/-5.349  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

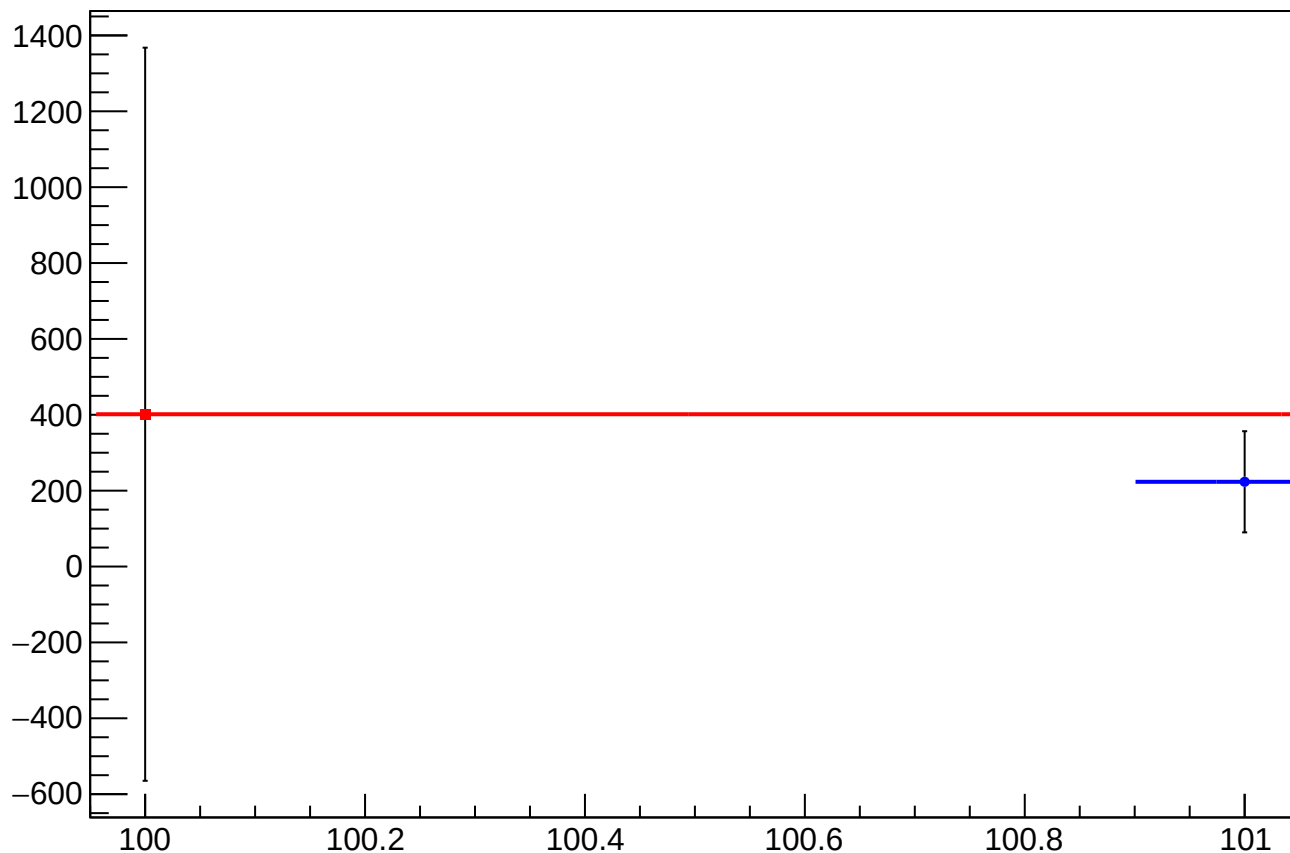
Right: 1445.019+/-1.204  $\chi^2/\text{NDF}$ : 12846.5/1

In: 1413.475+/-1.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1445.019+/-1.204  $\chi^2/\text{NDF}$ : 12846.5/1

eigen\_cor\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 223.369+/-133.340  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 401.464+/-966.242  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

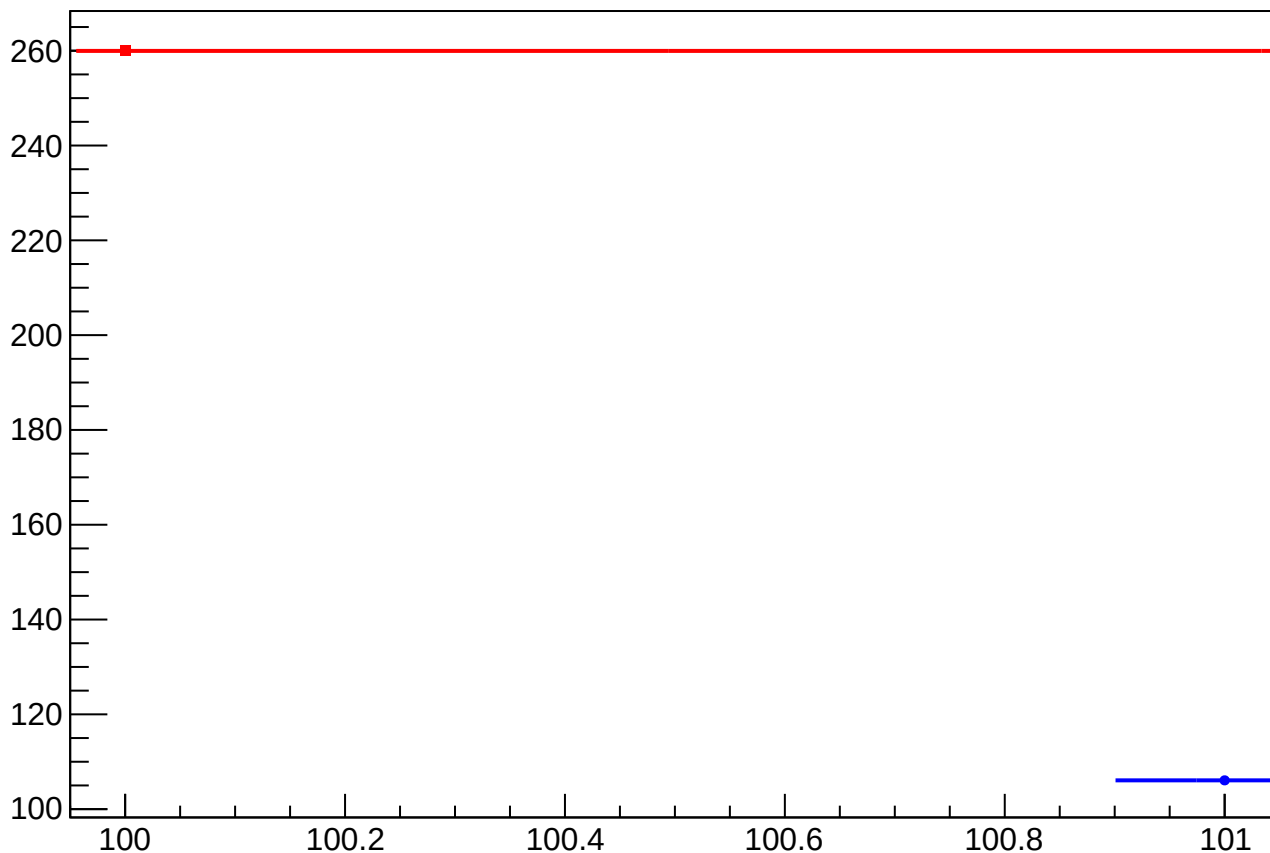
Right: 226.697+/-132.088  $\chi^2/\text{NDF}$ : 0.0/1

In: 223.369+/-133.340  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 226.697+/-132.088  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 106.075 $\pm$ 0.094  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 259.961 $\pm$ 0.683  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

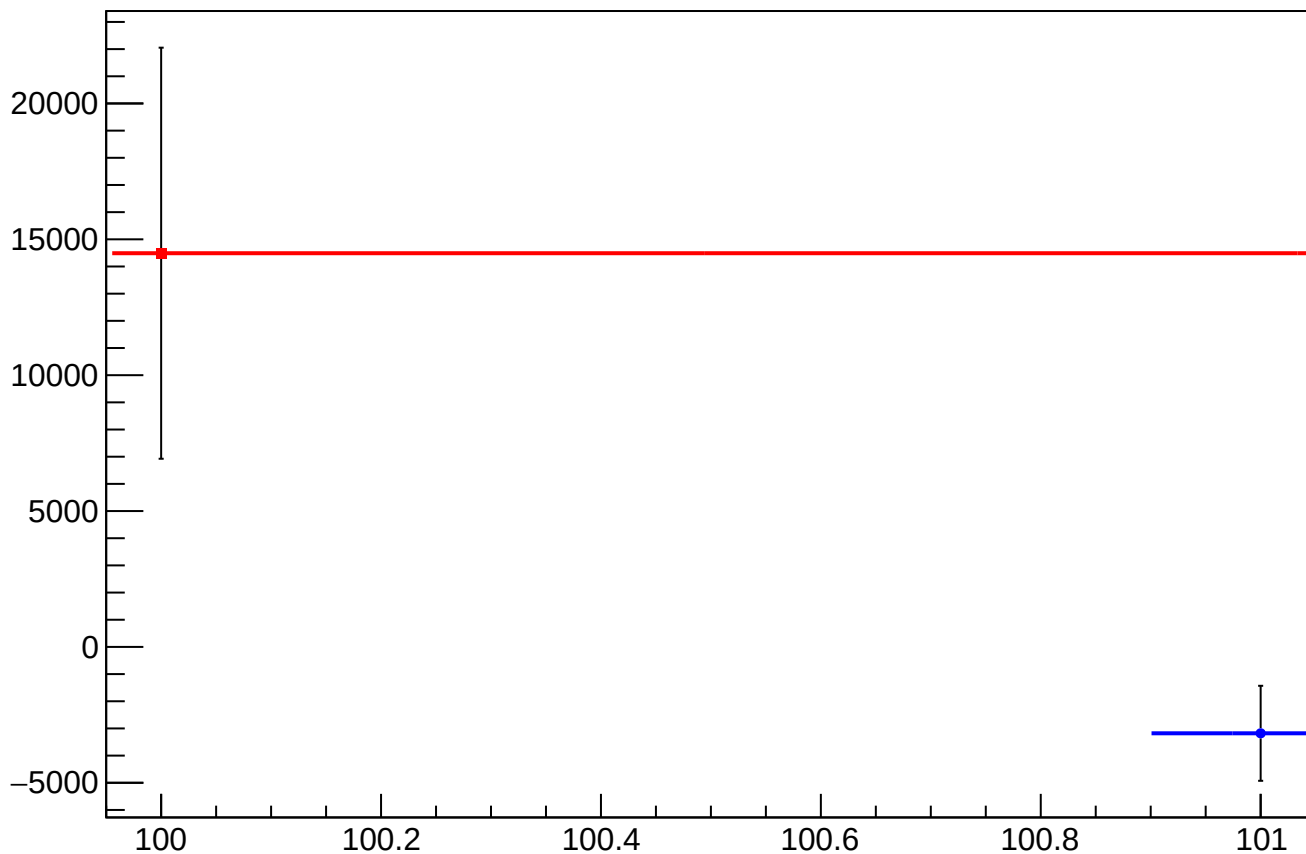
Right: 108.950 $\pm$ 0.093  $\chi^2$ /NDF: 49781.0/1

In: 106.075 $\pm$ 0.094  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 108.950 $\pm$ 0.093  $\chi^2$ /NDF: 49781.0/1

asym\_sam\_2468\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -3179.035+/-1748.062  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14488.665+/-7564.328  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

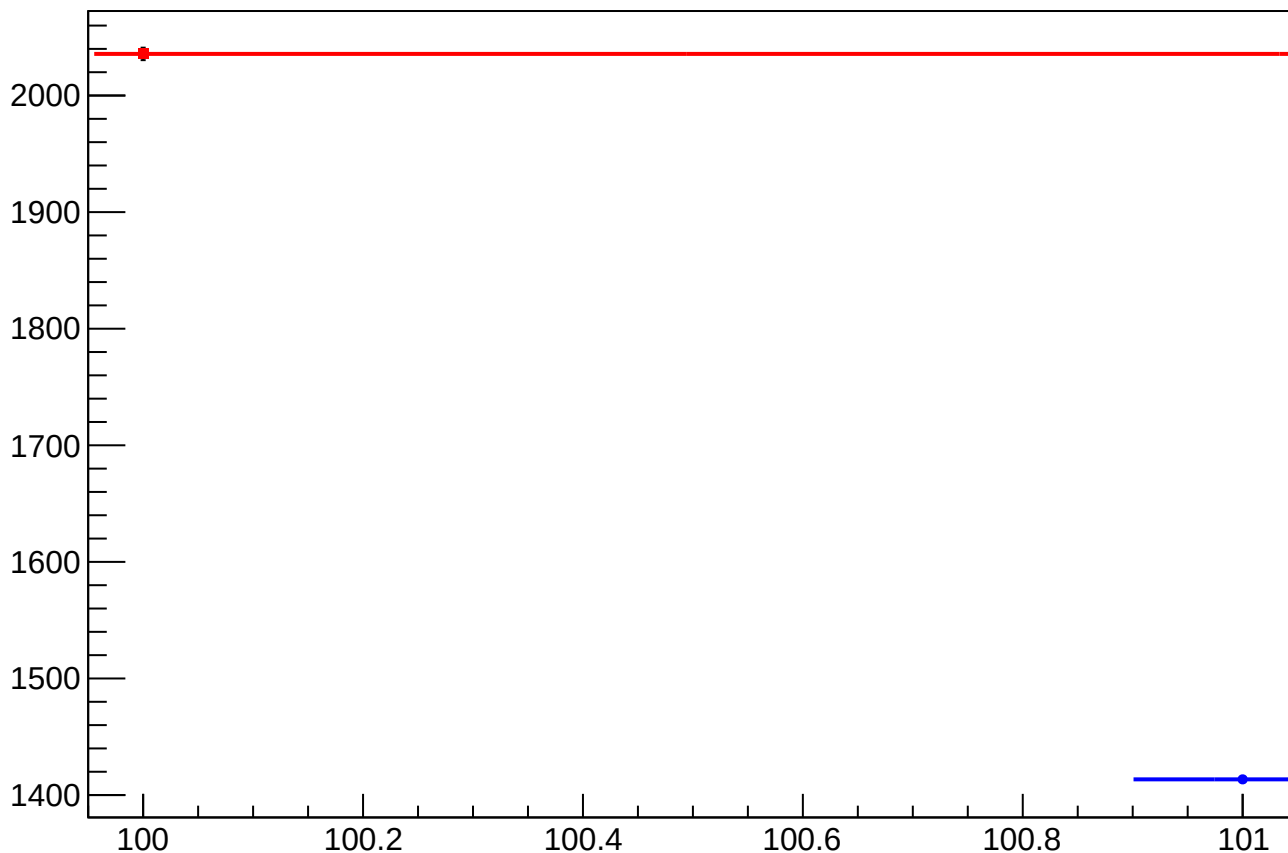
Right: -2283.344+/-1703.176  $\chi^2/\text{NDF}$ : 5.2/1

In: -3179.035+/-1748.062  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2283.344+/-1703.176  $\chi^2/\text{NDF}$ : 5.2/1

asym\_sam\_2468\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 1413.475+/-1.236  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2035.698+/-5.349  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

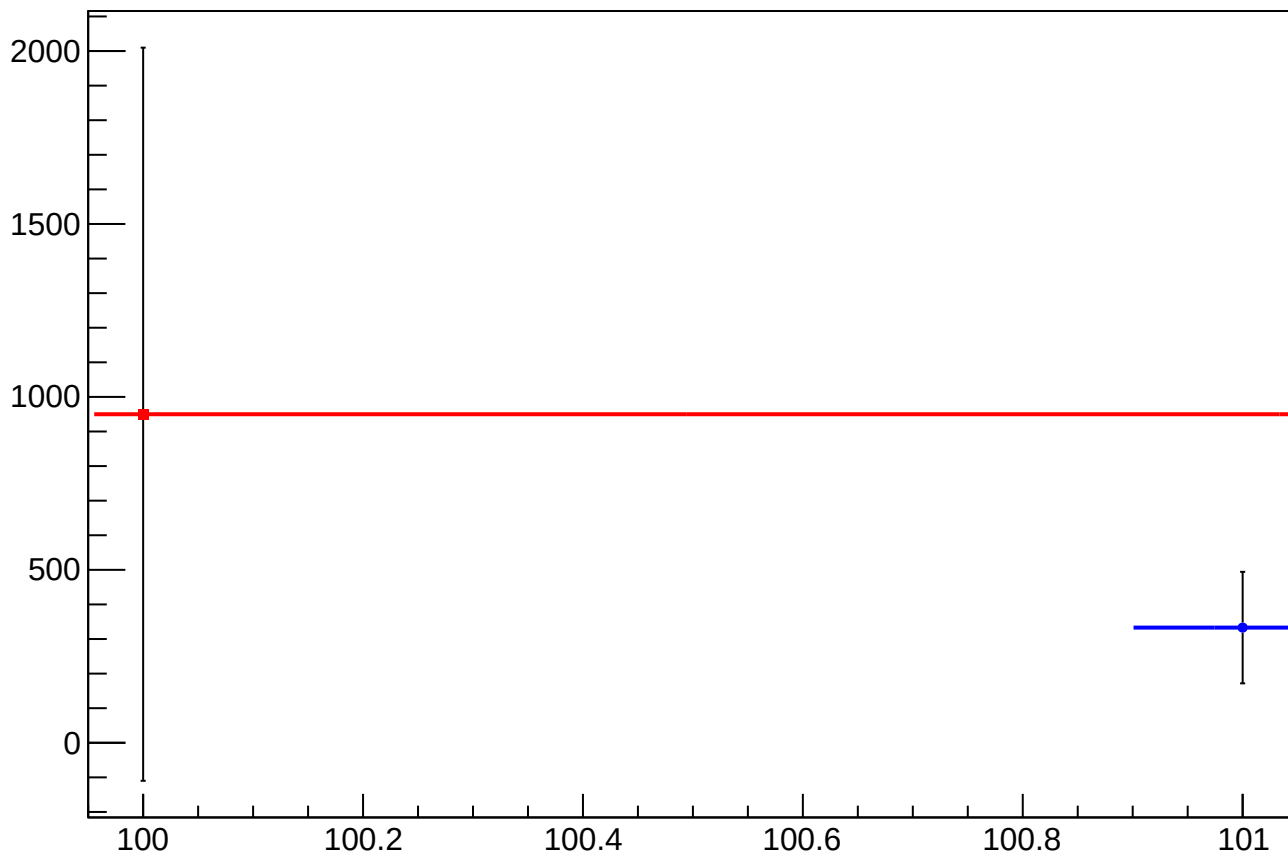
Right: 1445.019+/-1.204  $\chi^2/\text{NDF}$ : 12846.5/1

In: 1413.475+/-1.236  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1445.019+/-1.204  $\chi^2/\text{NDF}$ : 12846.5/1

dit\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 333.023+/-161.211  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 949.905+/-1059.832  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

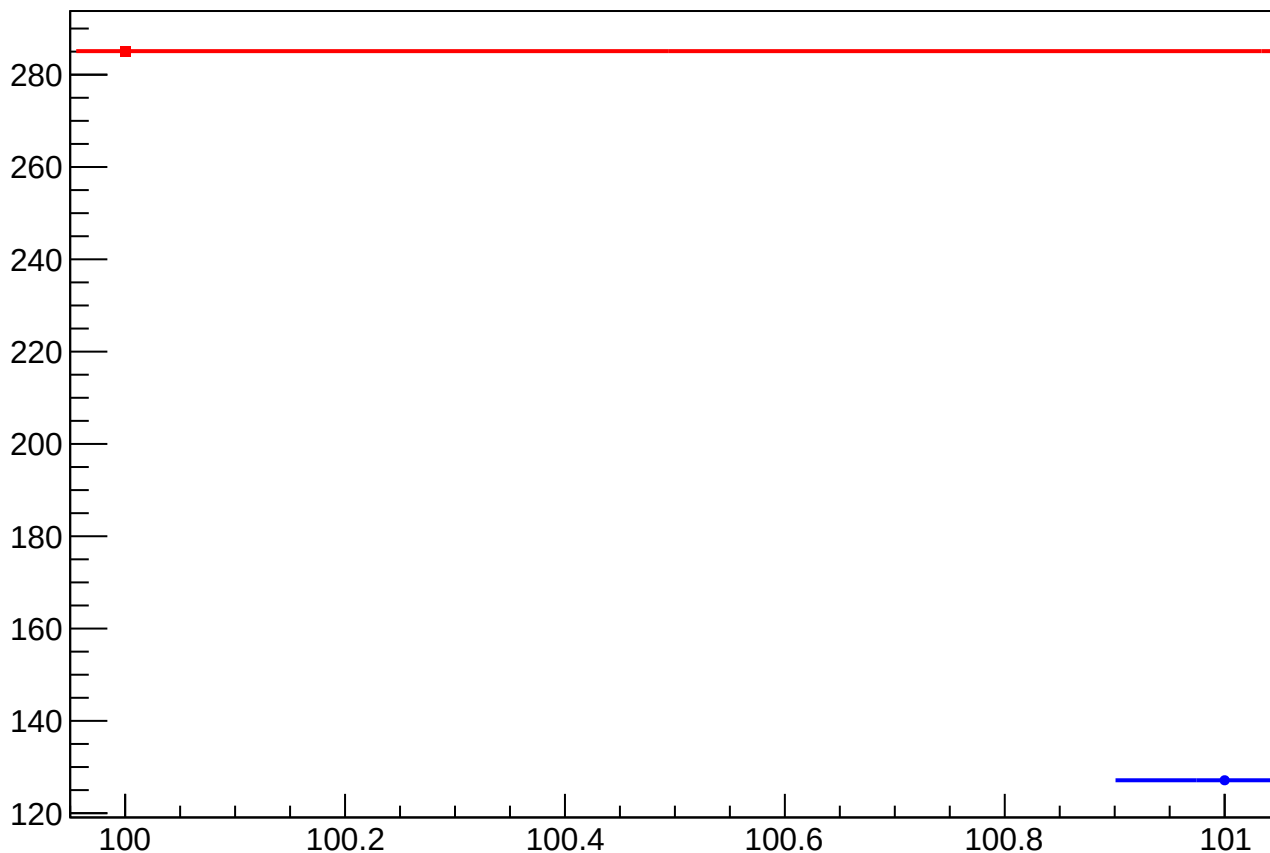
Right: 346.973+/-159.378  $\chi^2/\text{NDF}$ : 0.3/1

In: 333.023+/-161.211  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 346.973+/-159.378  $\chi^2/\text{NDF}$ : 0.3/1

dit\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 127.130 $\pm$ 0.114  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 285.106 $\pm$ 0.749  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 130.703 $\pm$ 0.113  $\chi^2$ /NDF: 43431.3/1

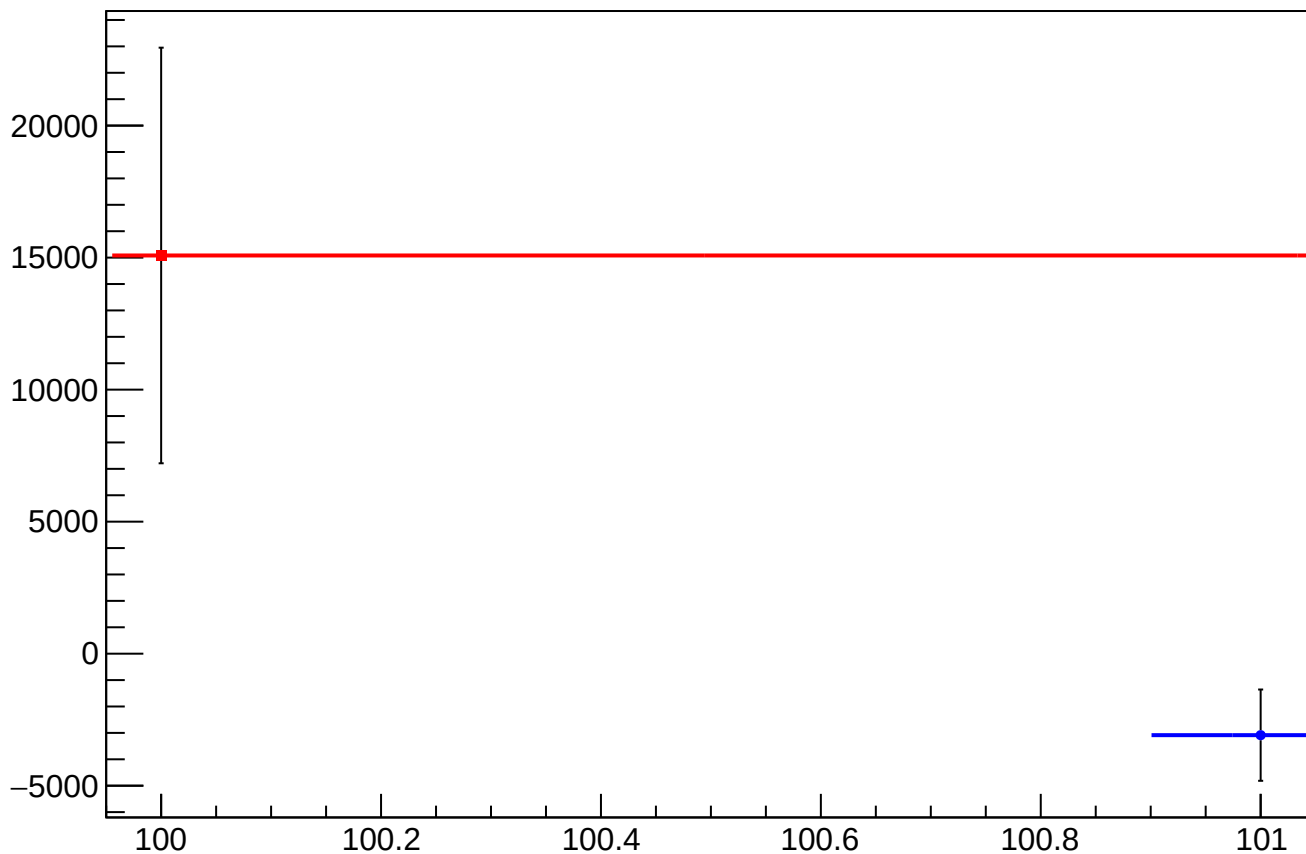
In: 127.130 $\pm$ 0.114  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 130.703 $\pm$ 0.113  $\chi^2$ /NDF: 43431.3/1



asym\_sam\_2468\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3085.620+/-1728.583  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15080.994+/-7870.130  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

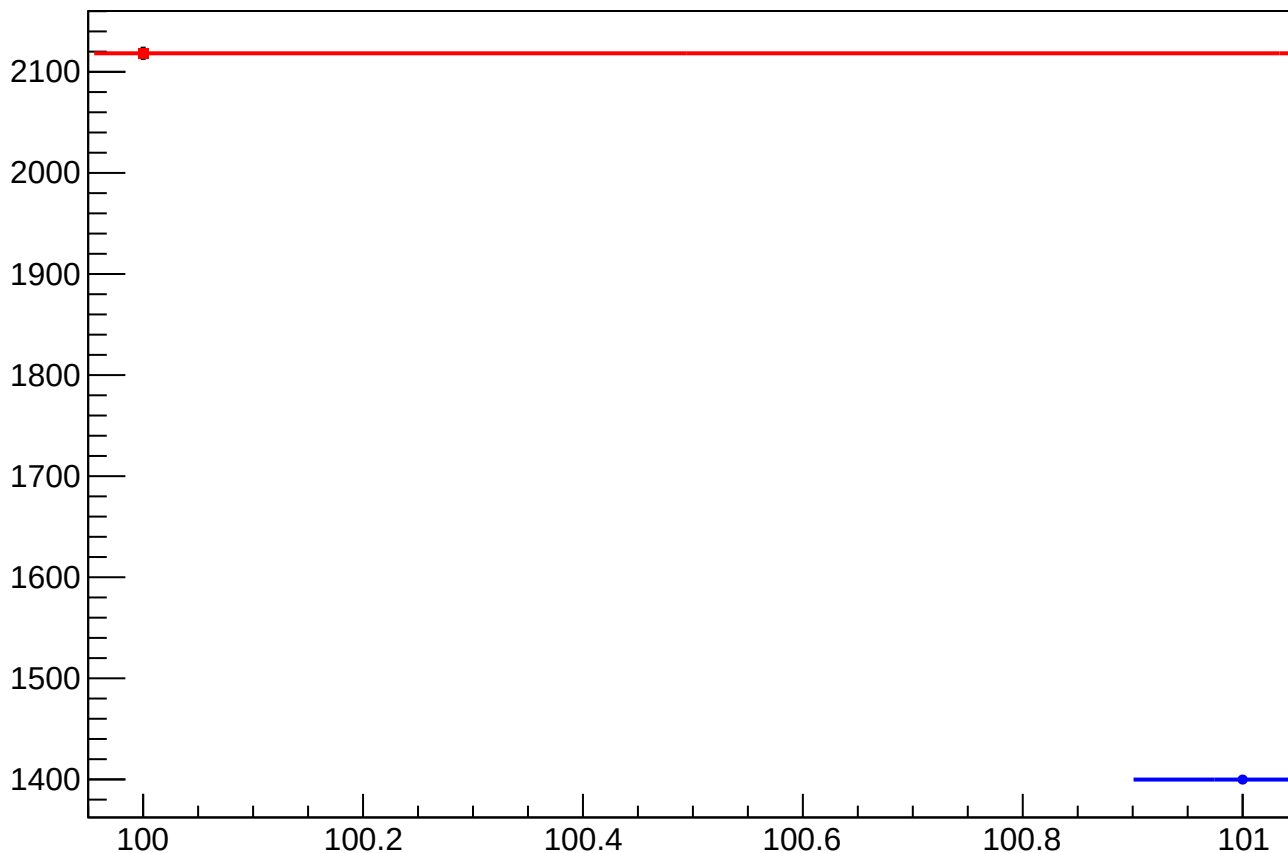
Right: -2249.575+/-1688.339  $\chi^2/\text{NDF}$ : 5.1/1

In: -3085.620+/-1728.583  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2249.575+/-1688.339  $\chi^2/\text{NDF}$ : 5.1/1

asym\_sam\_2468\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1399.842 $\pm$ 1.222  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2118.356 $\pm$ 5.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

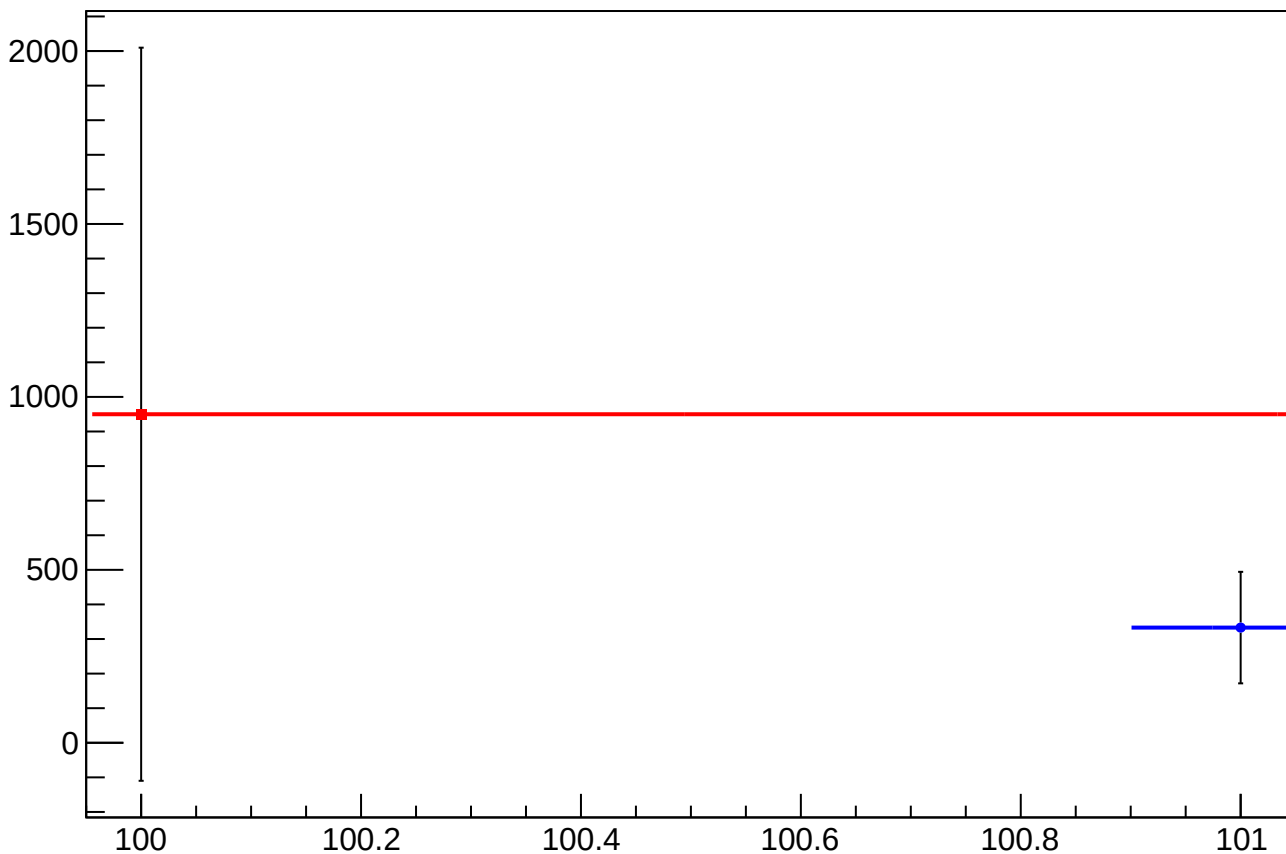
Right: 1432.908 $\pm$ 1.194  $\chi^2$ /NDF: 15902.9/1

In: 1399.842 $\pm$ 1.222  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1432.908 $\pm$ 1.194  $\chi^2$ /NDF: 15902.9/1

eigen\_dit\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 333.022+/-161.212  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 949.902+/-1059.832  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

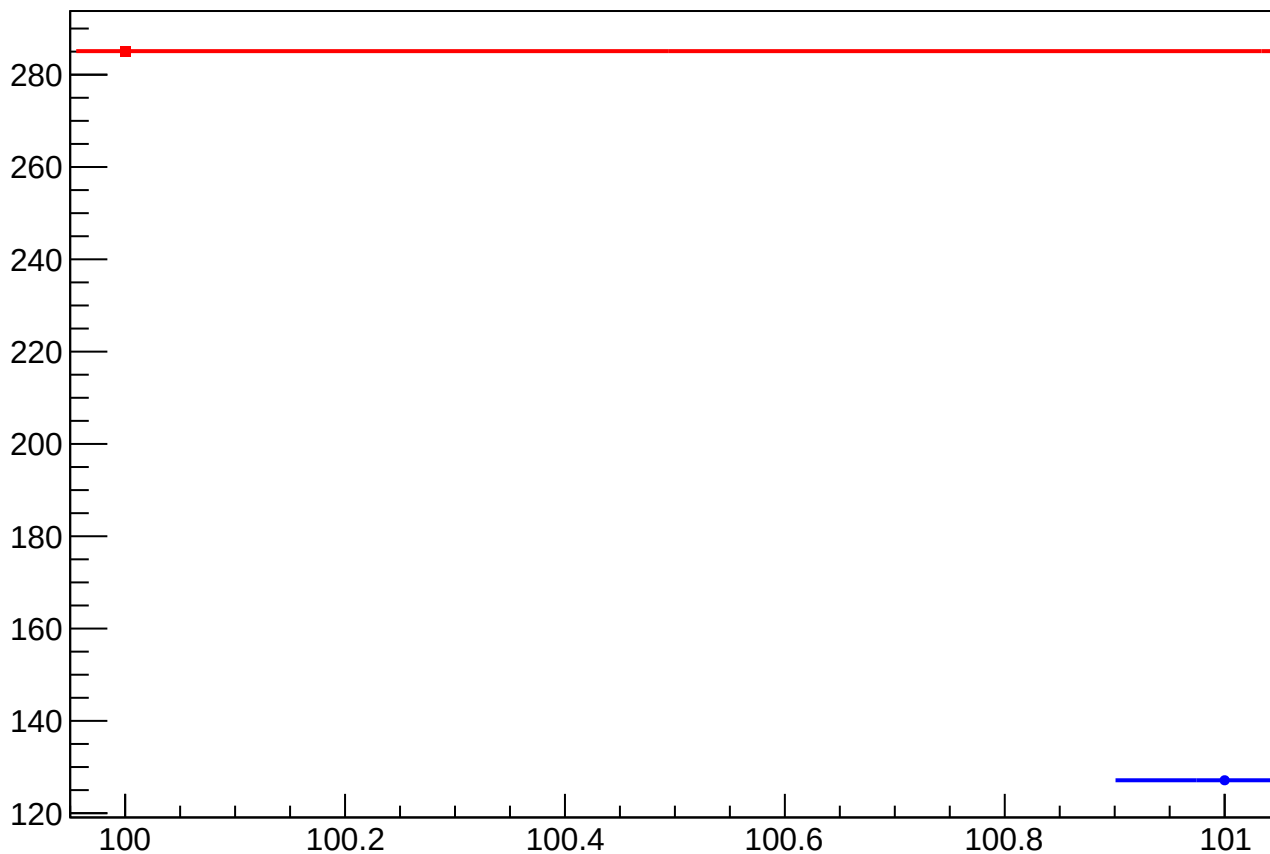
Right: 346.972+/-159.378  $\chi^2/\text{NDF}$ : 0.3/1

In: 333.022+/-161.212  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 346.972+/-159.378  $\chi^2/\text{NDF}$ : 0.3/1

eigen\_dit\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 127.131 $\pm$ 0.114  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 285.106 $\pm$ 0.749  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

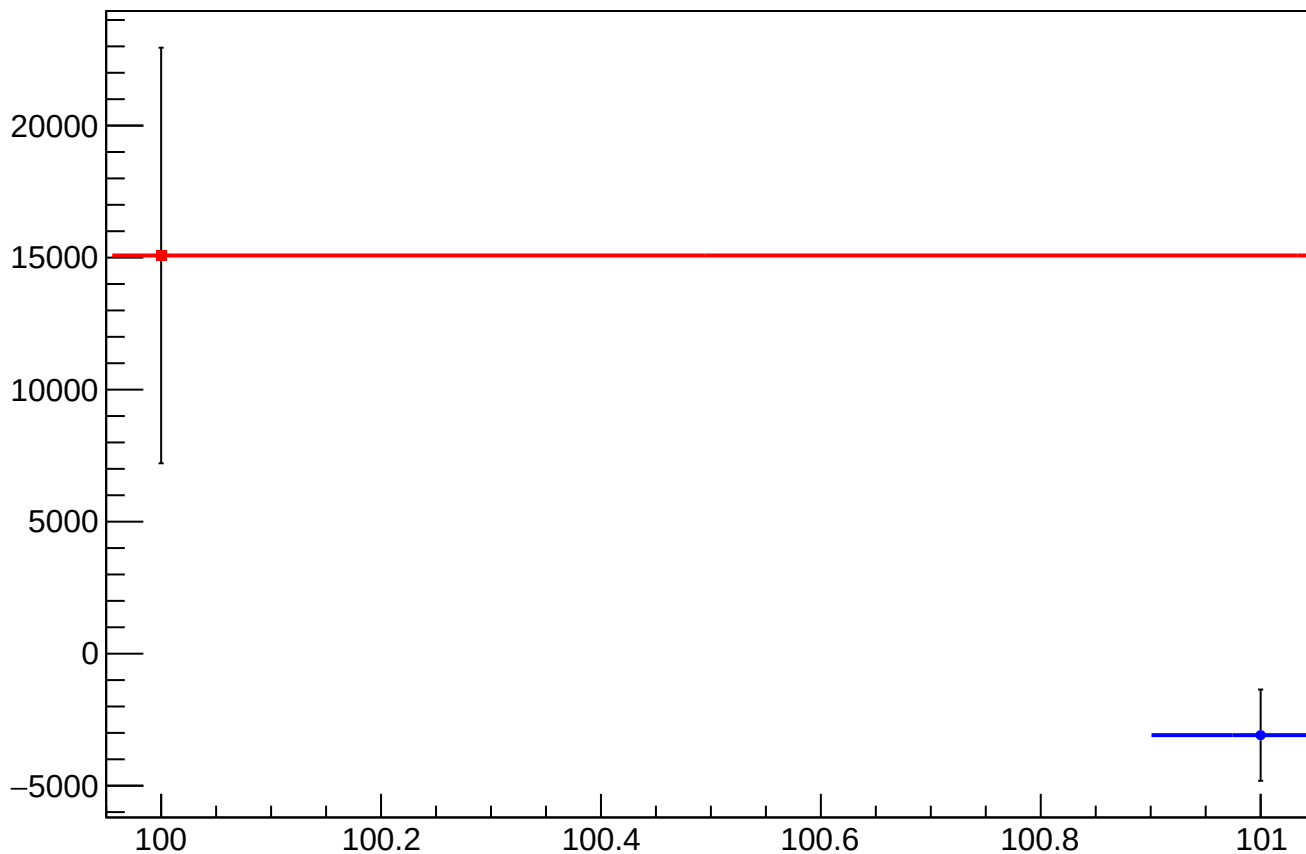
Right: 130.703 $\pm$ 0.113  $\chi^2$ /NDF: 43431.1/1

In: 127.131 $\pm$ 0.114  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 130.703 $\pm$ 0.113  $\chi^2$ /NDF: 43431.1/1

asym\_sam\_2468\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -3085.620+/-1728.581  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15080.990+/-7870.126  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

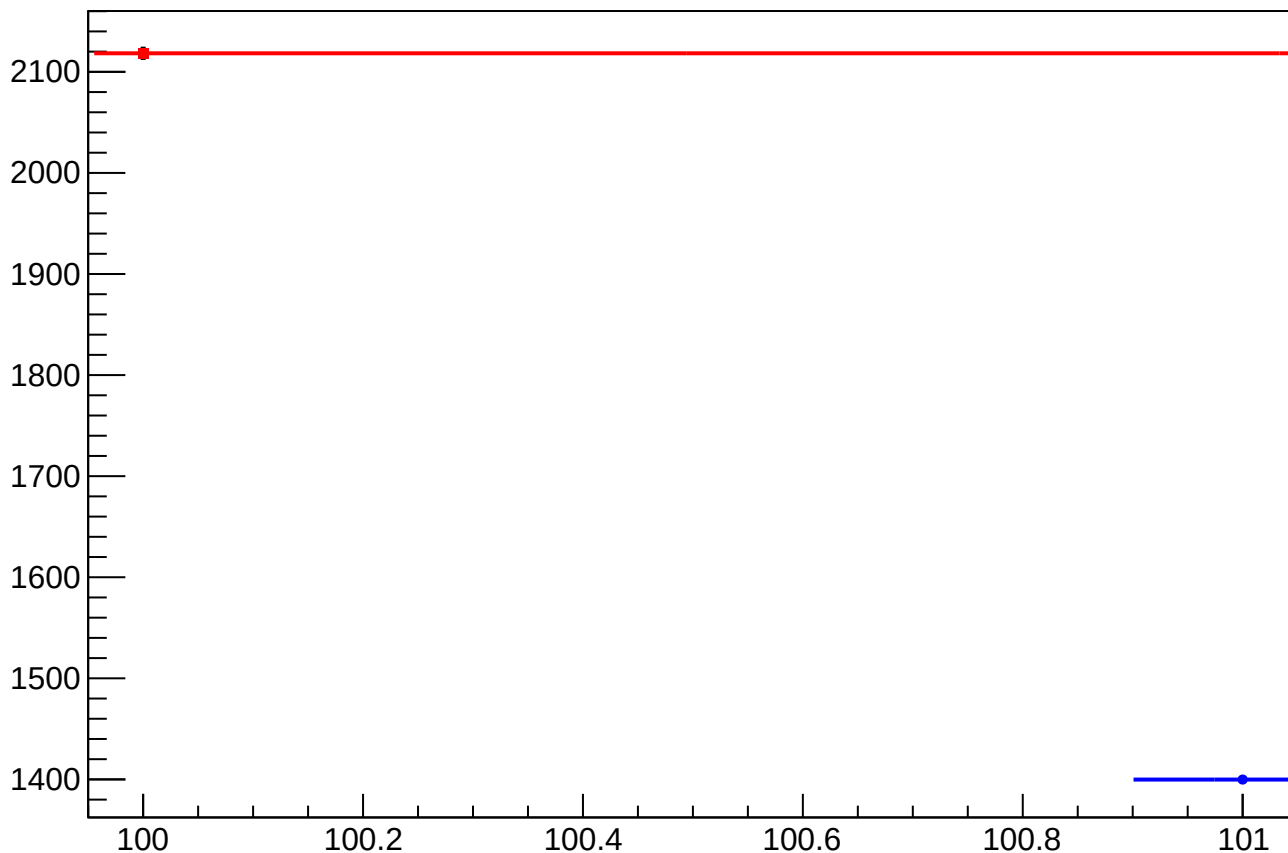
Right: -2249.577+/-1688.337  $\chi^2/\text{NDF}$ : 5.1/1

In: -3085.620+/-1728.581  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2249.577+/-1688.337  $\chi^2/\text{NDF}$ : 5.1/1

asym\_sam\_2468\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 1399.840 $\pm$ 1.222  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2118.355 $\pm$ 5.565  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

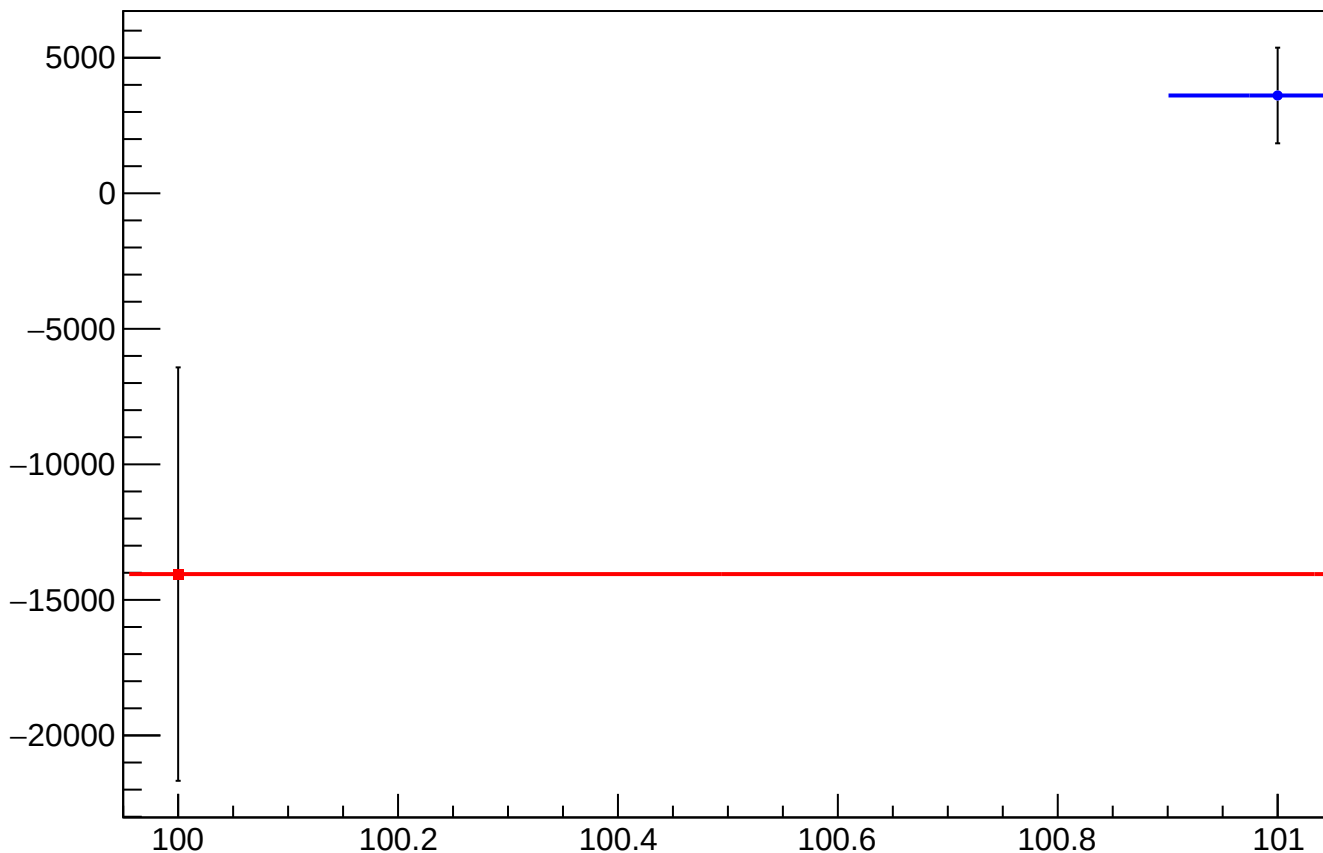
Right: 1432.907 $\pm$ 1.194  $\chi^2$ /NDF: 15902.9/1

In: 1399.840 $\pm$ 1.222  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1432.907 $\pm$ 1.194  $\chi^2$ /NDF: 15902.9/1

asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 3608.208+/-1764.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14048.215+/-7625.887  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

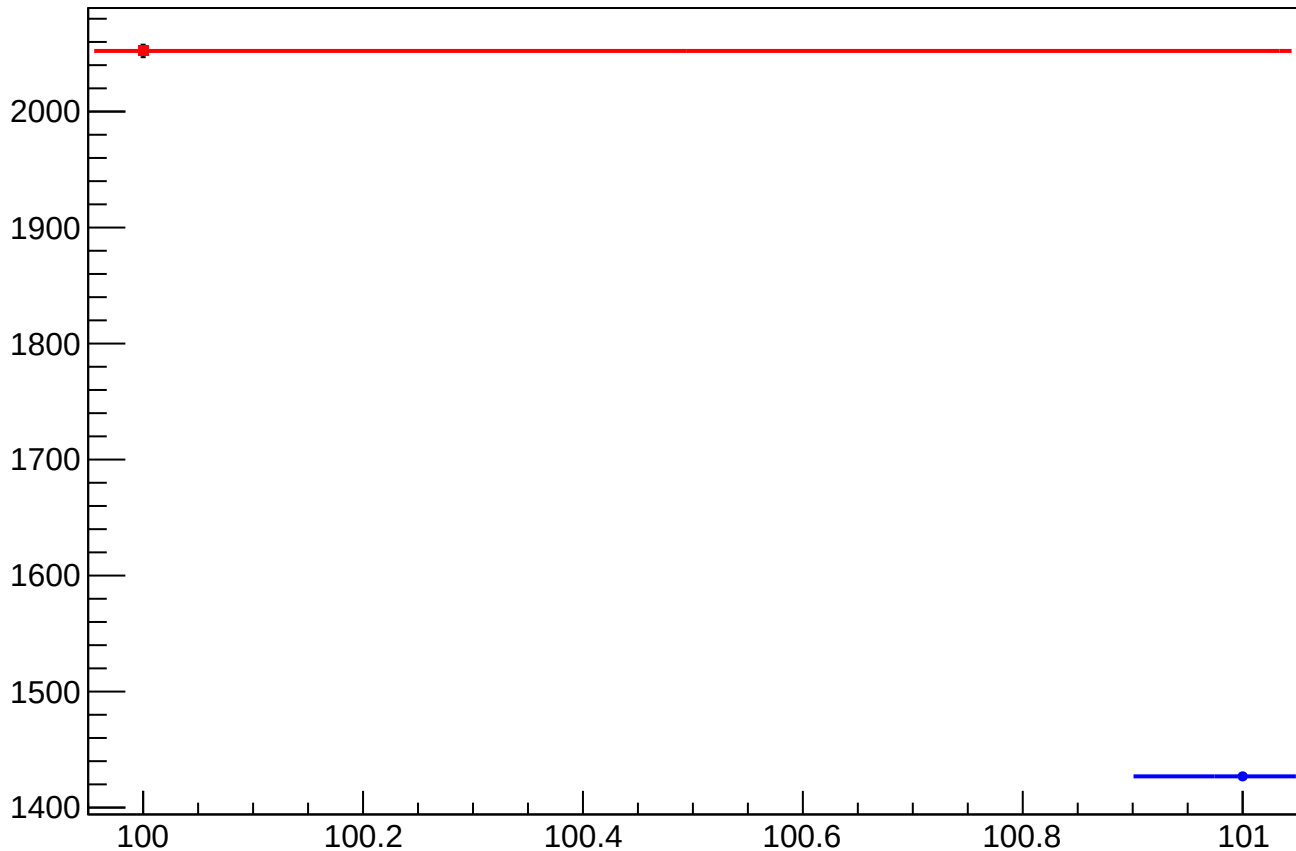
Right: 2711.329+/-1718.723  $\chi^2/\text{NDF}$ : 5.1/1

In: 3608.208+/-1764.112  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2711.329+/-1718.723  $\chi^2/\text{NDF}$ : 5.1/1

asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 1426.919 $\pm$ 1.247  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2052.261 $\pm$ 5.392  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1458.684 $\pm$ 1.215  $\chi^2$ /NDF: 12765.7/1

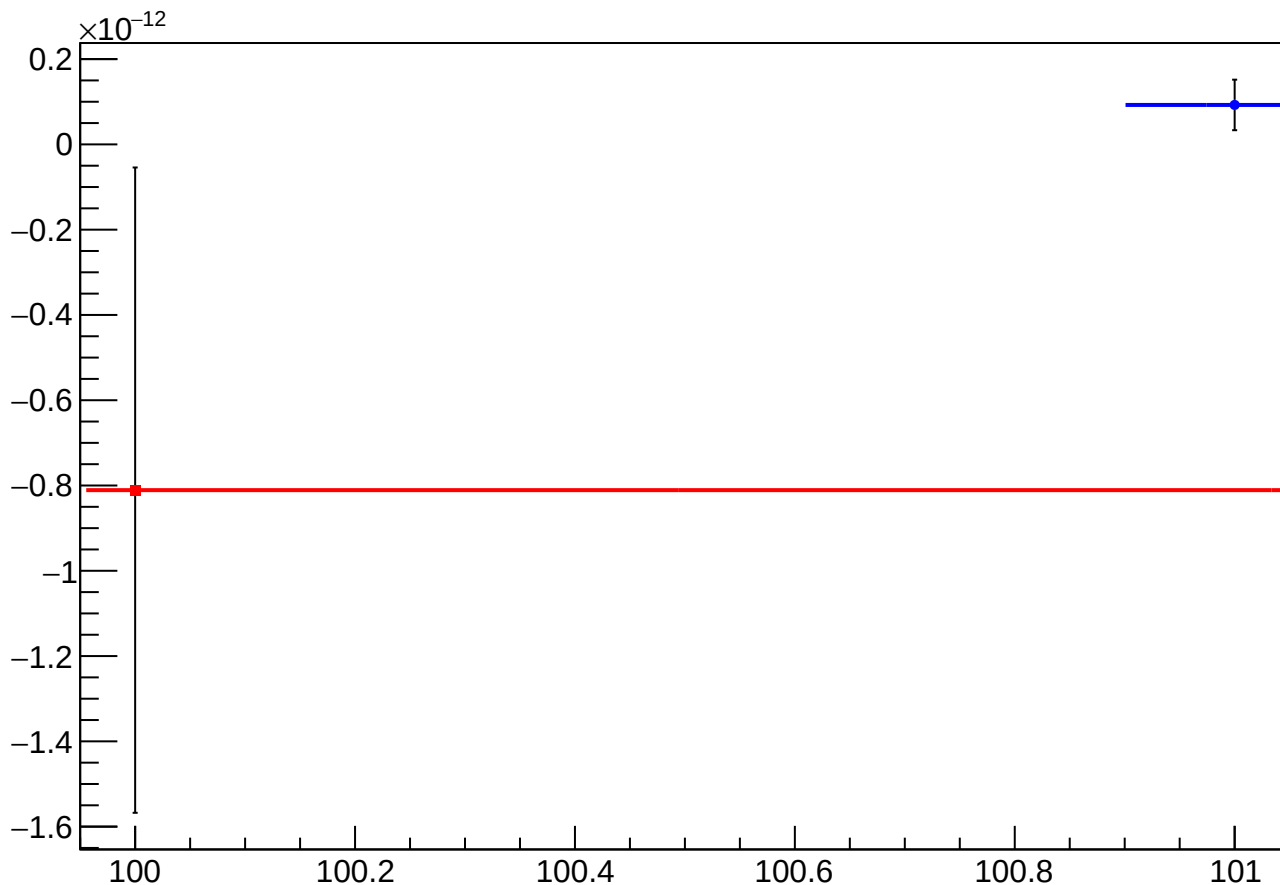
In: 1426.919 $\pm$ 1.247  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1458.684 $\pm$ 1.215  $\chi^2$ /NDF: 12765.7/1



asym\_sam\_2468\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

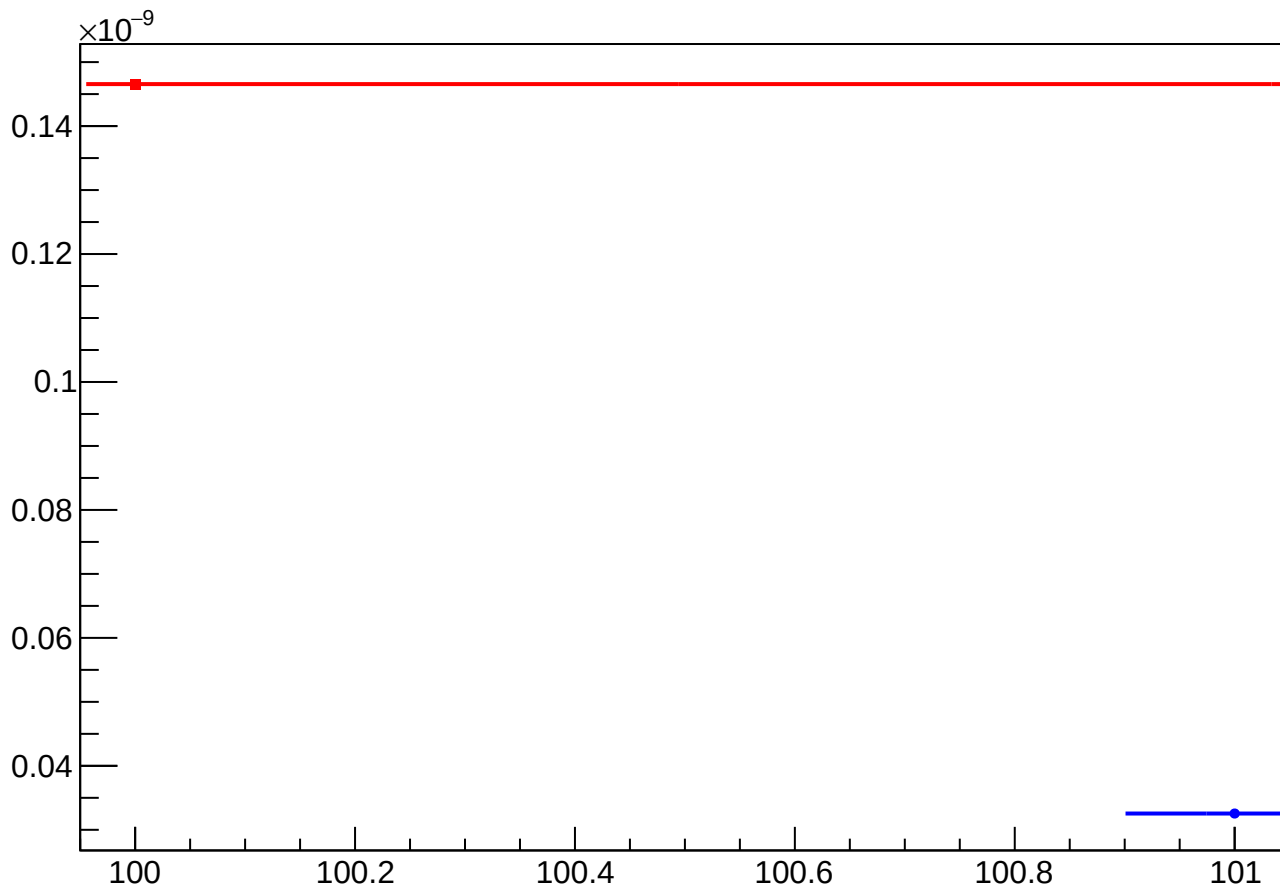
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1.4/1

asym\_sam\_2468\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

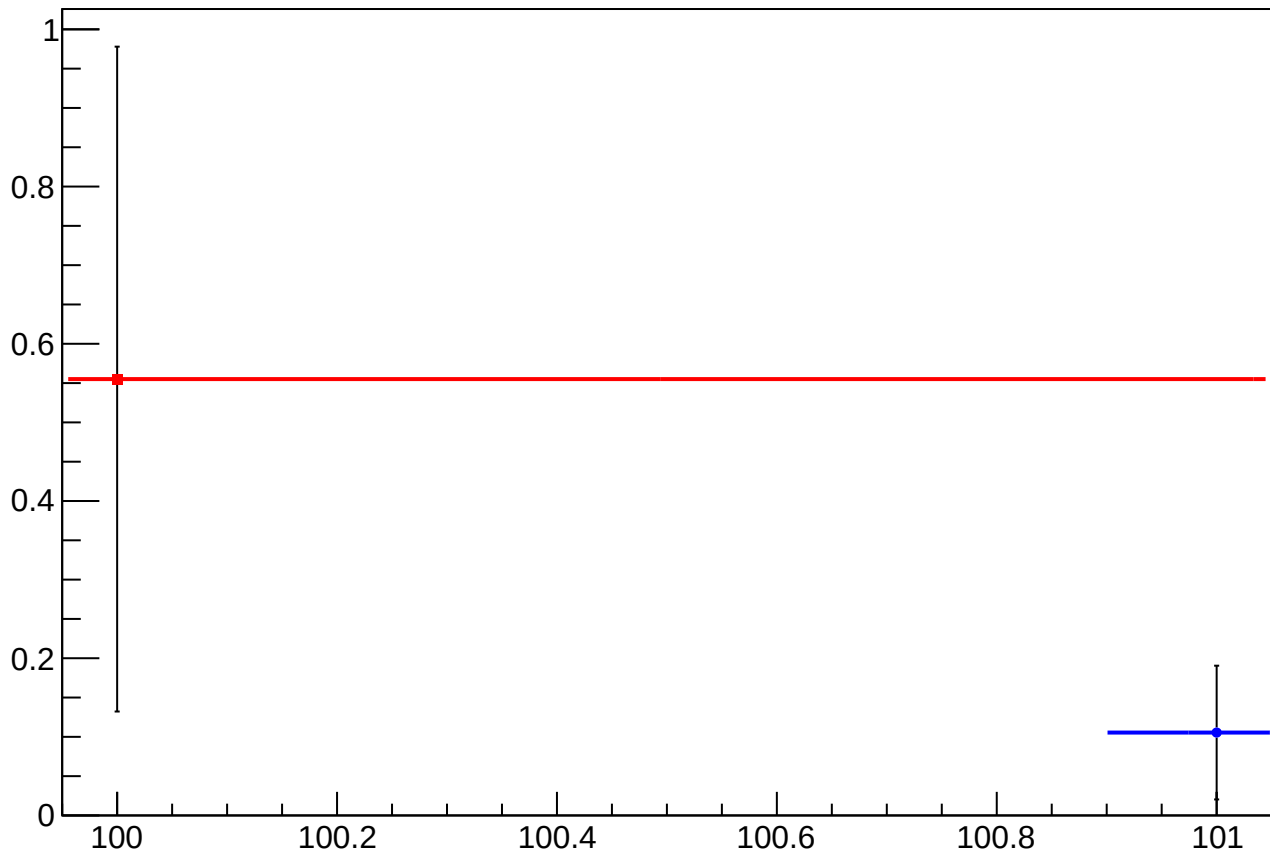
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 45131.2/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 45131.2/1

asym\_sam\_2468\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.105+/-0.085  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.555+/-0.423  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

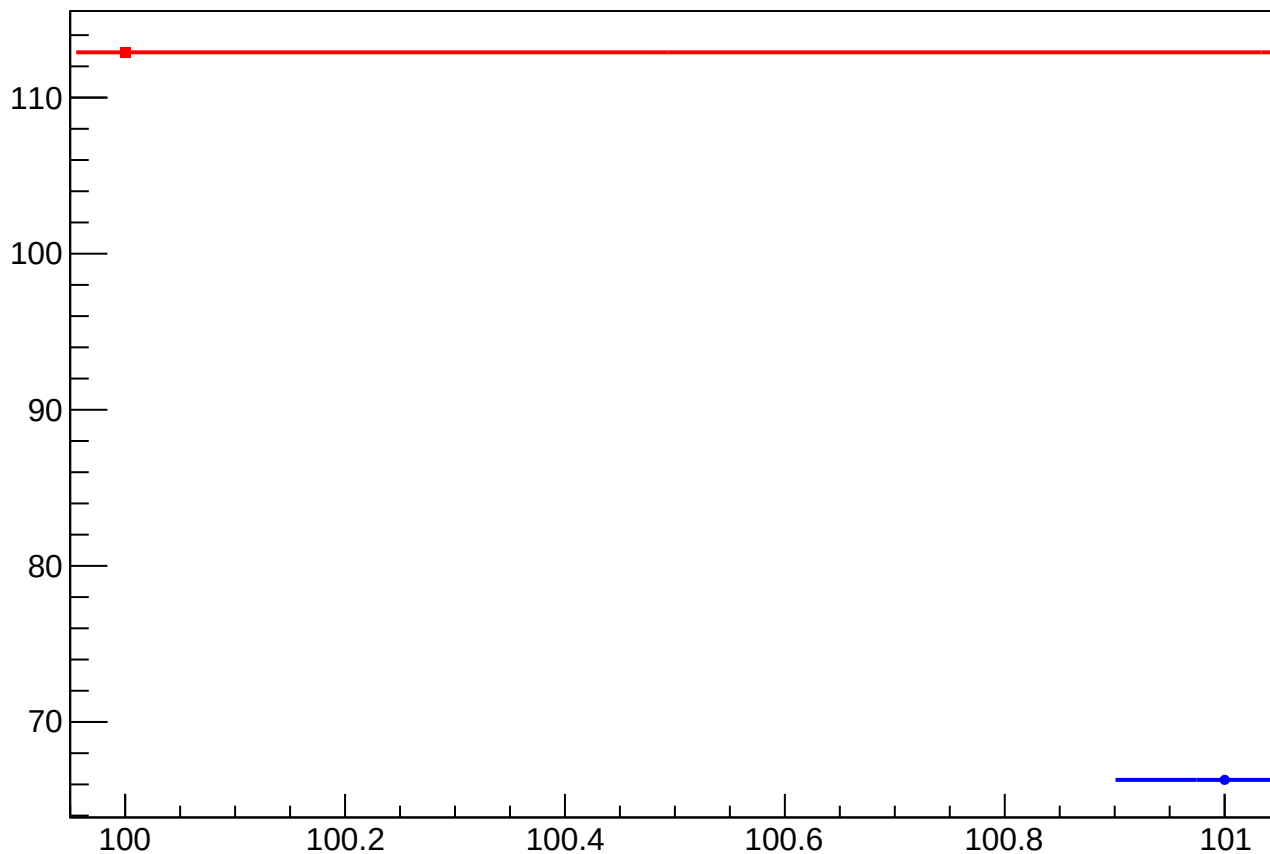
Right: 0.123+/-0.083  $\chi^2/\text{NDF}$ : 1.1/1

In: 0.105+/-0.085  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123+/-0.083  $\chi^2/\text{NDF}$ : 1.1/1

asym\_sam\_2468\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 66.292 $\pm$ 0.060  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 112.898 $\pm$ 0.299  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

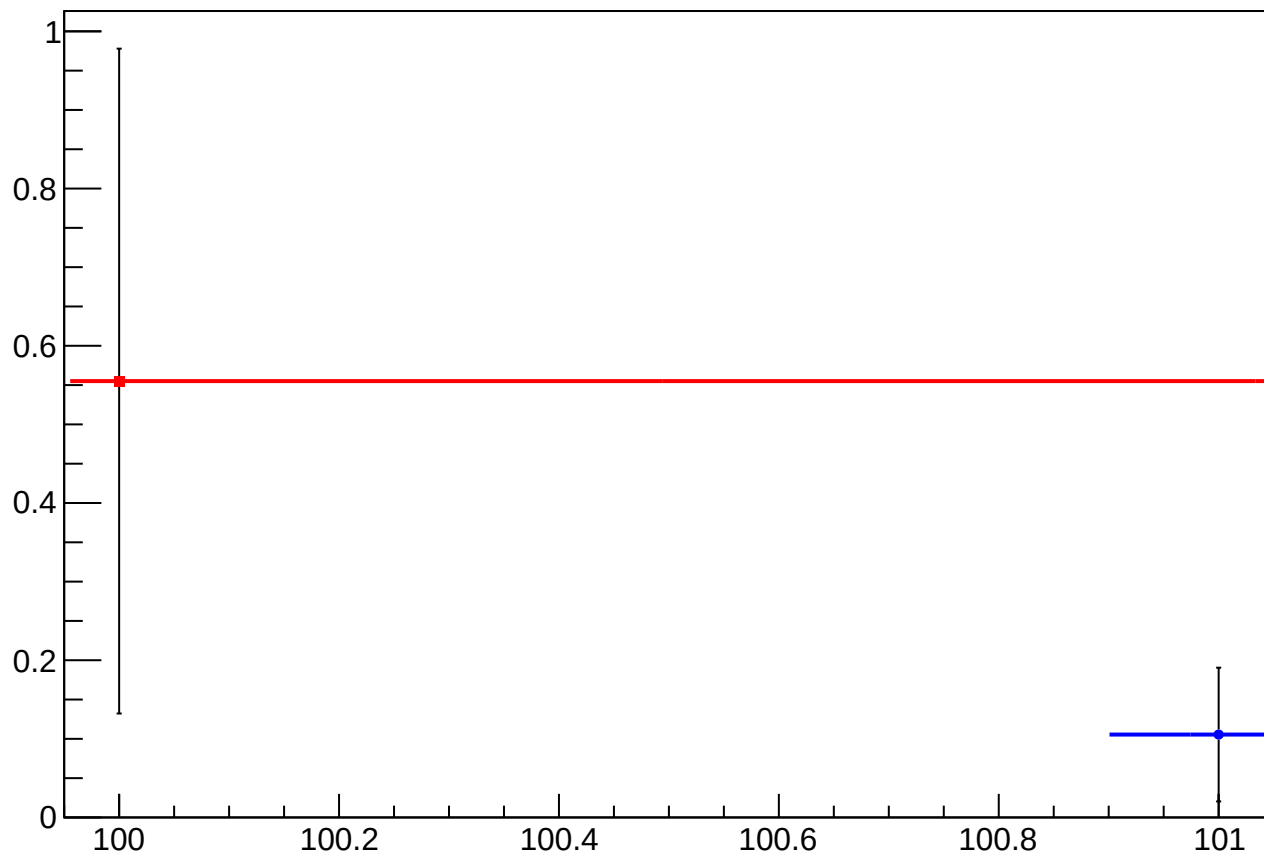
Right: 68.105 $\pm$ 0.059  $\chi^2$ /NDF: 23348.7/1

In: 66.292 $\pm$ 0.060  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 68.105 $\pm$ 0.059  $\chi^2$ /NDF: 23348.7/1

asym\_sam\_2468\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.105 $\pm$ 0.085  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.555 $\pm$ 0.423  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

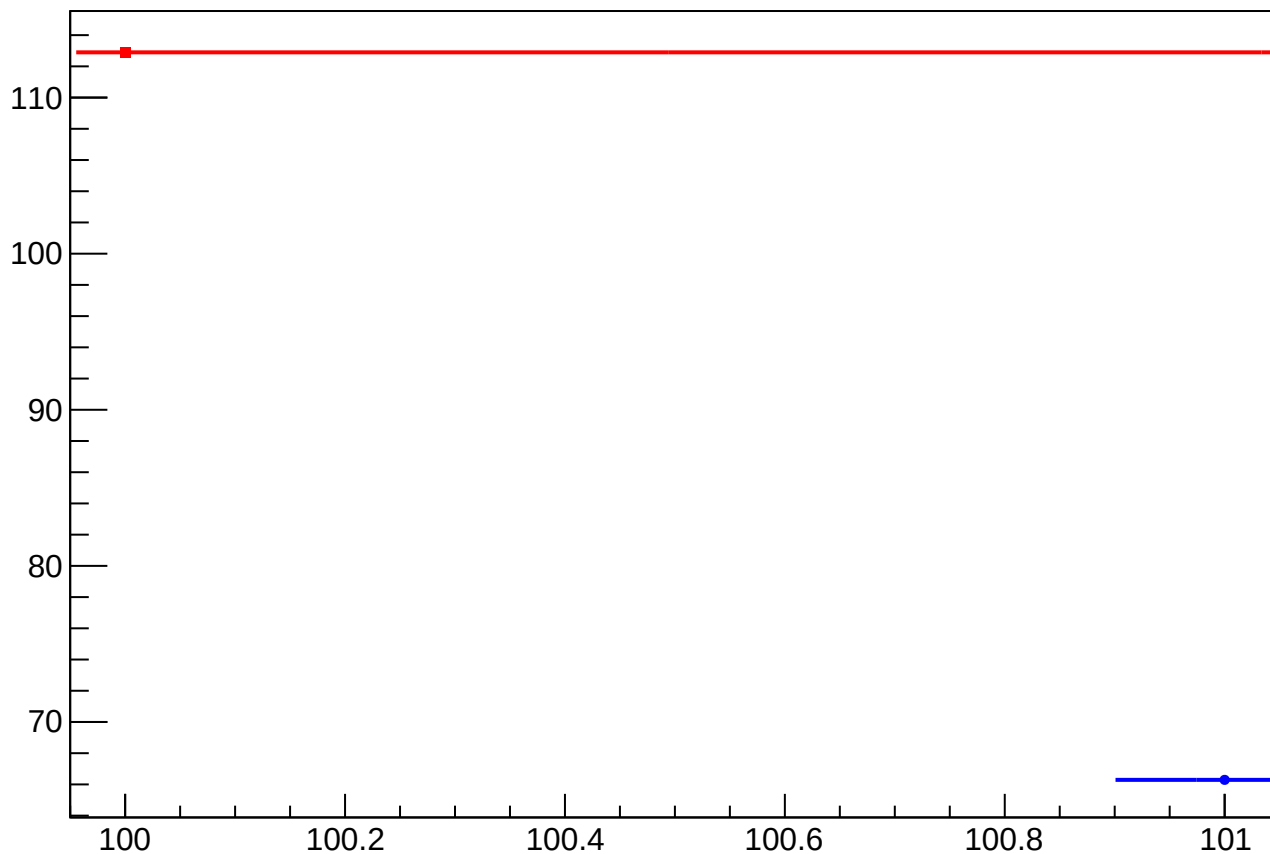
Right: 0.123 $\pm$ 0.083  $\chi^2$ /NDF: 1.1/1

In: 0.105 $\pm$ 0.085  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.123 $\pm$ 0.083  $\chi^2$ /NDF: 1.1/1

asym\_sam\_2468\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 66.292 $\pm$ 0.060  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 112.898 $\pm$ 0.299  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

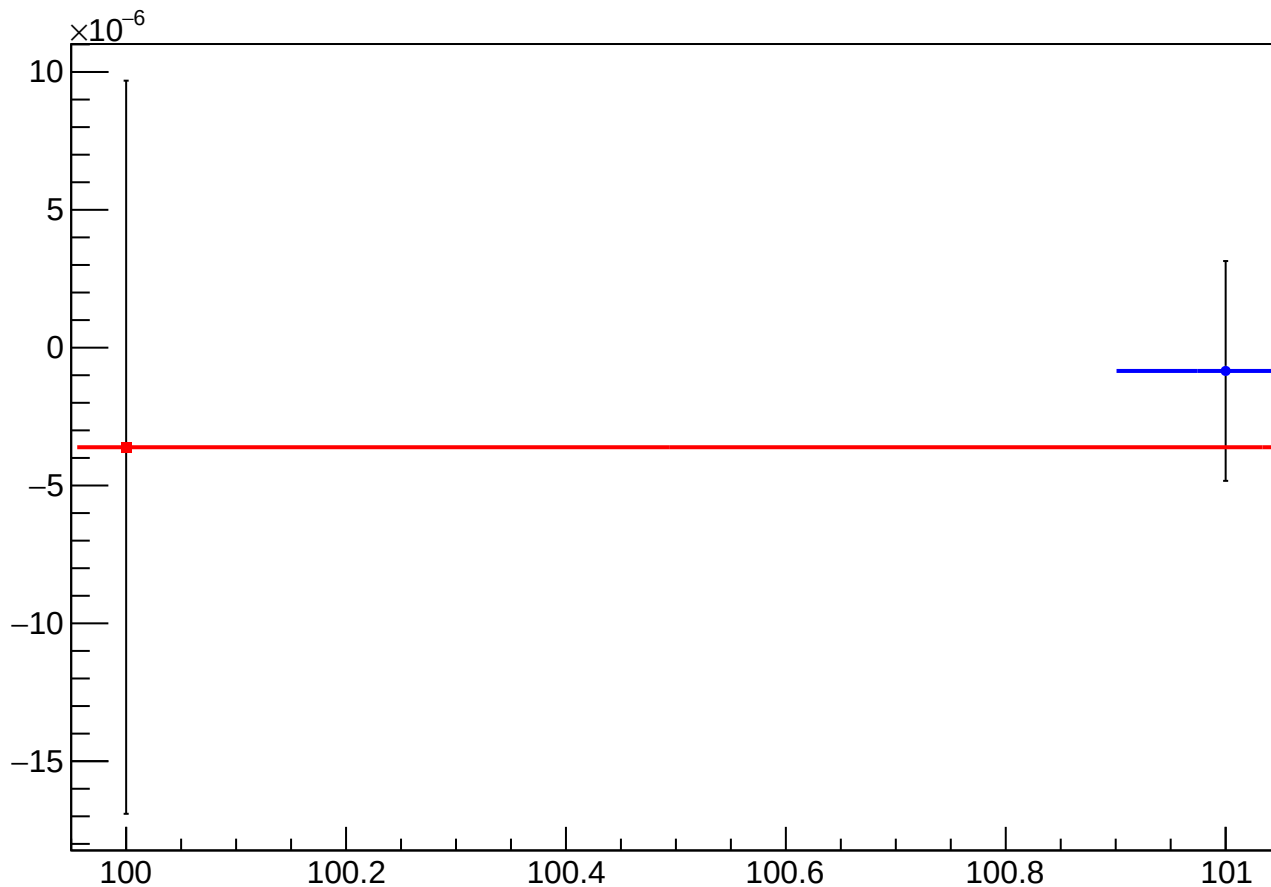
Right: 68.105 $\pm$ 0.059  $\chi^2$ /NDF: 23348.7/1

In: 66.292 $\pm$ 0.060  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 68.105 $\pm$ 0.059  $\chi^2$ /NDF: 23348.7/1

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

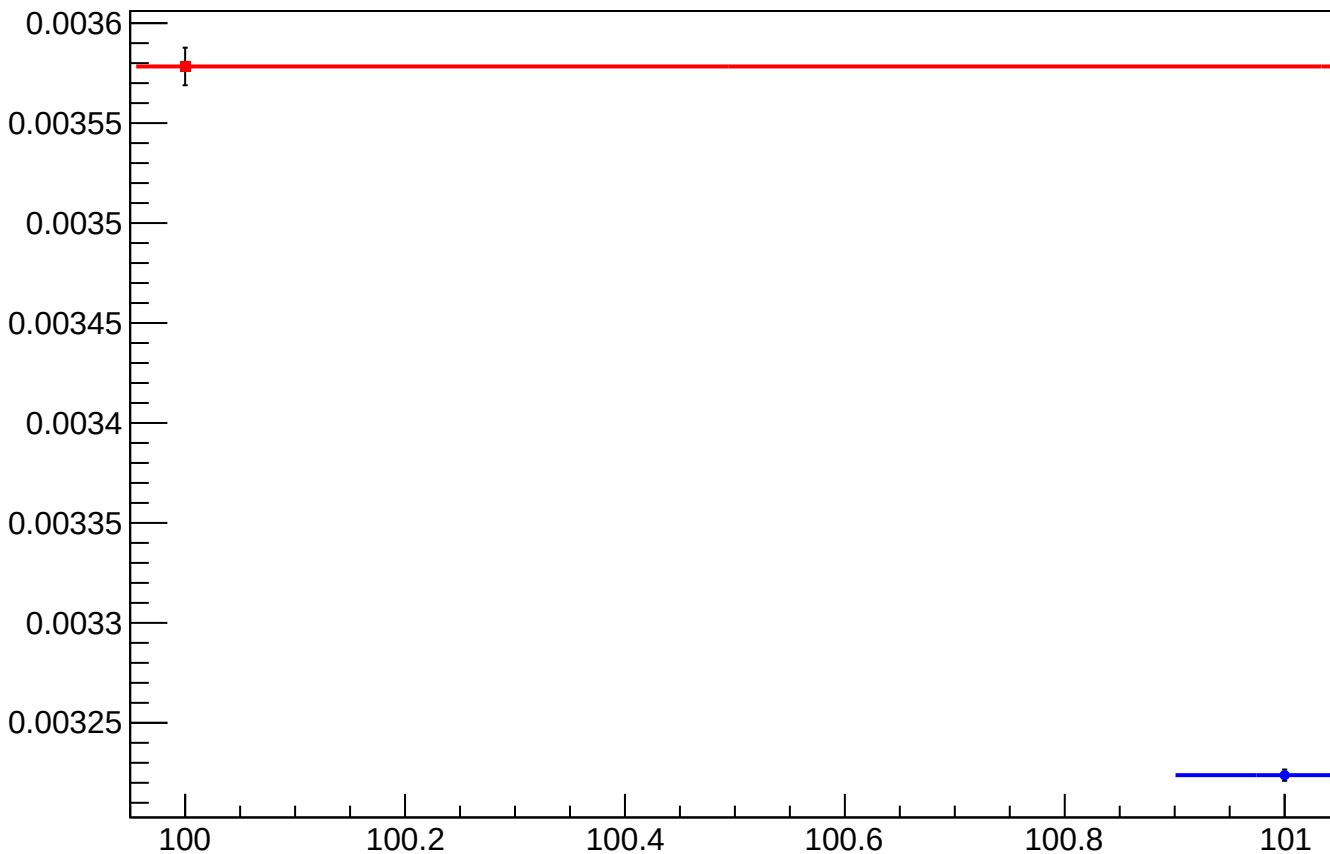
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/1

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1304.4/1

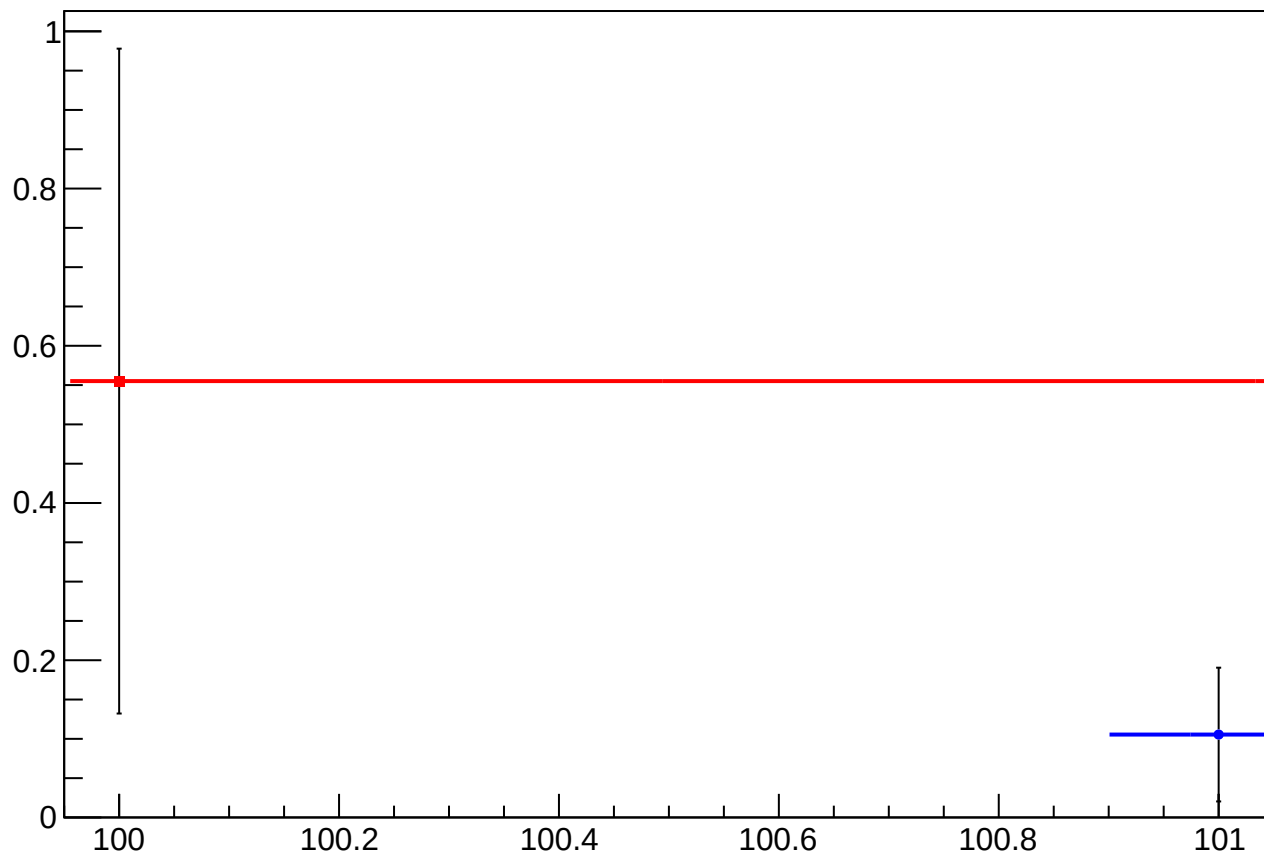
In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 1304.4/1



asym\_sam\_2468\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.105 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.555 $\pm$ 0.423  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

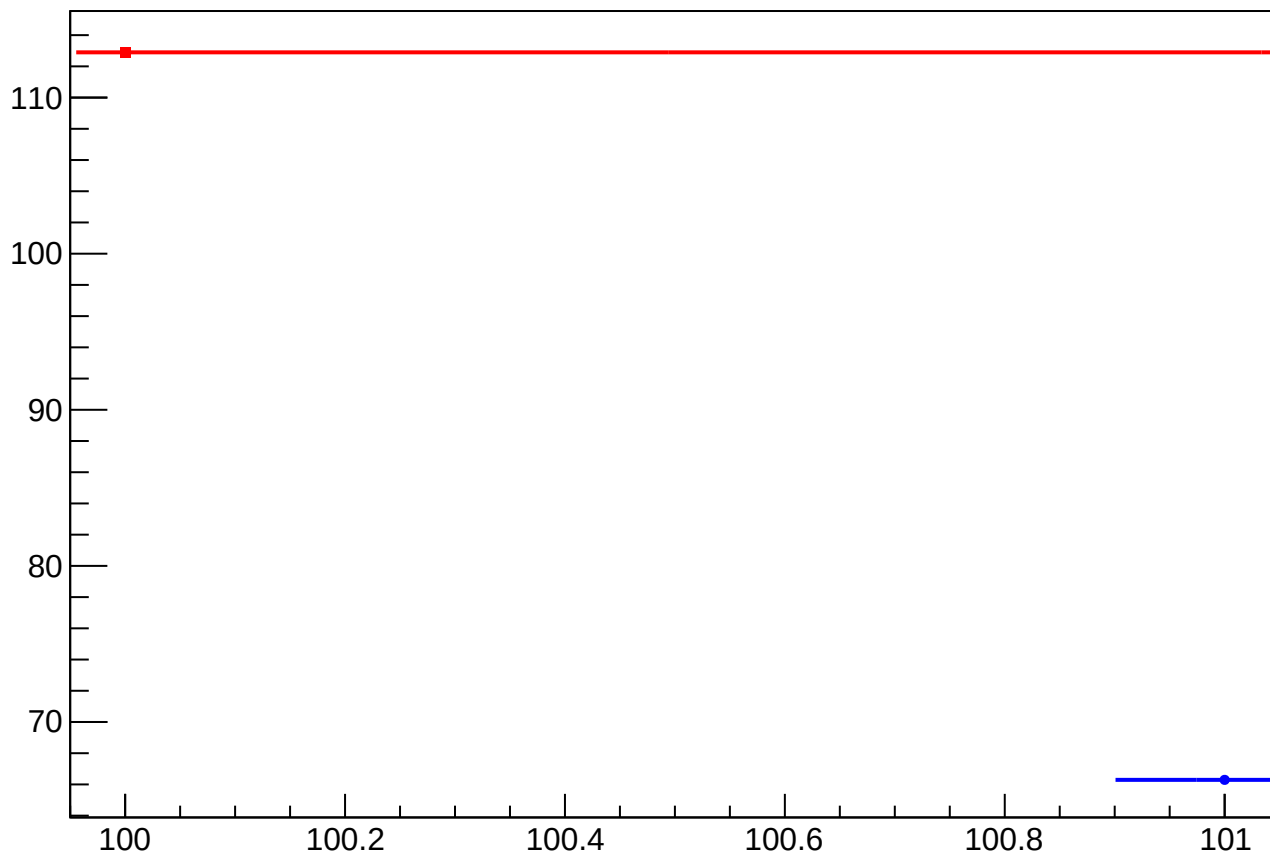
Right: 0.123 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 1.1/1

In: 0.105 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.123 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 1.1/1

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 66.293+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 112.898+/-0.299  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

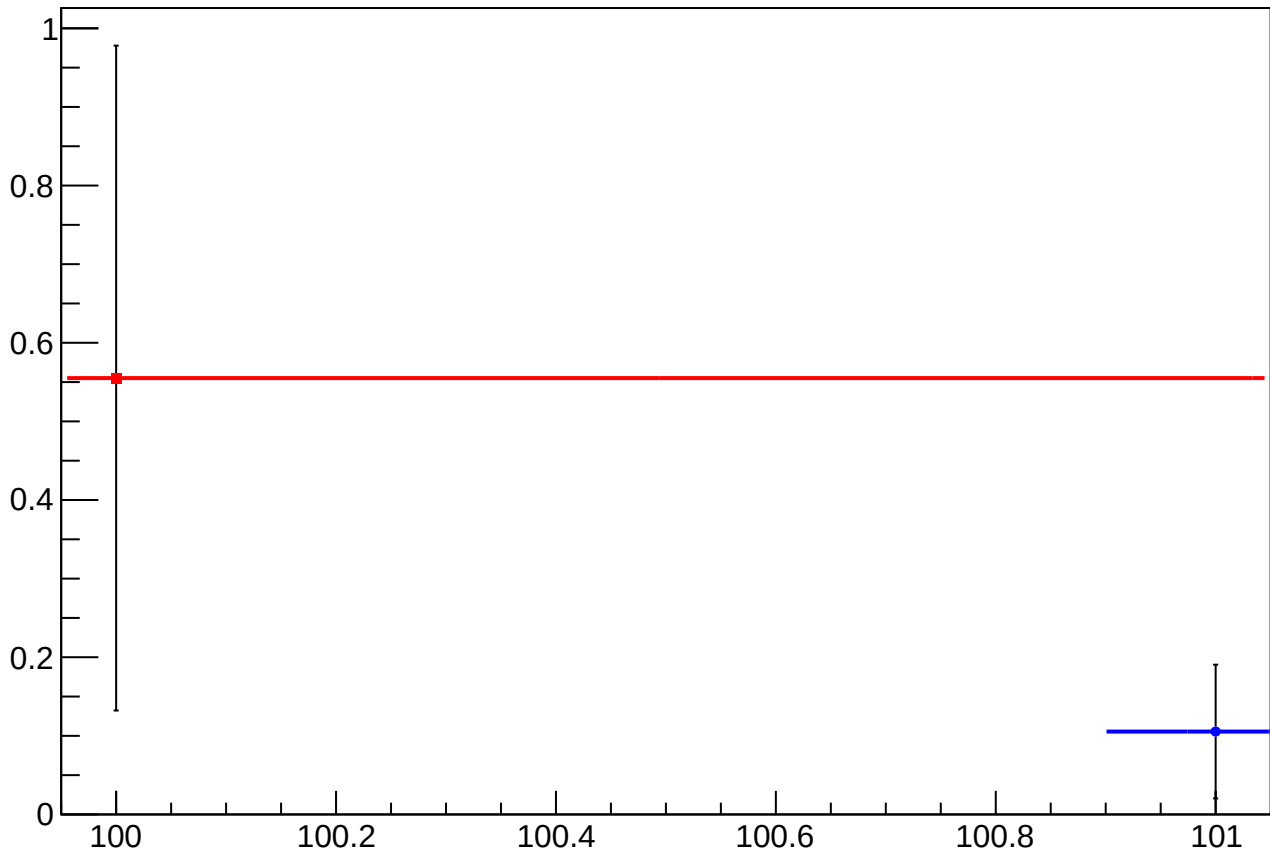
Right: 68.106+/-0.059  $\chi^2/\text{NDF}$ : 23347.9/1

In: 66.293+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 68.106+/-0.059  $\chi^2/\text{NDF}$ : 23347.9/1

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.105 $\pm$ 0.085  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.555 $\pm$ 0.423  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

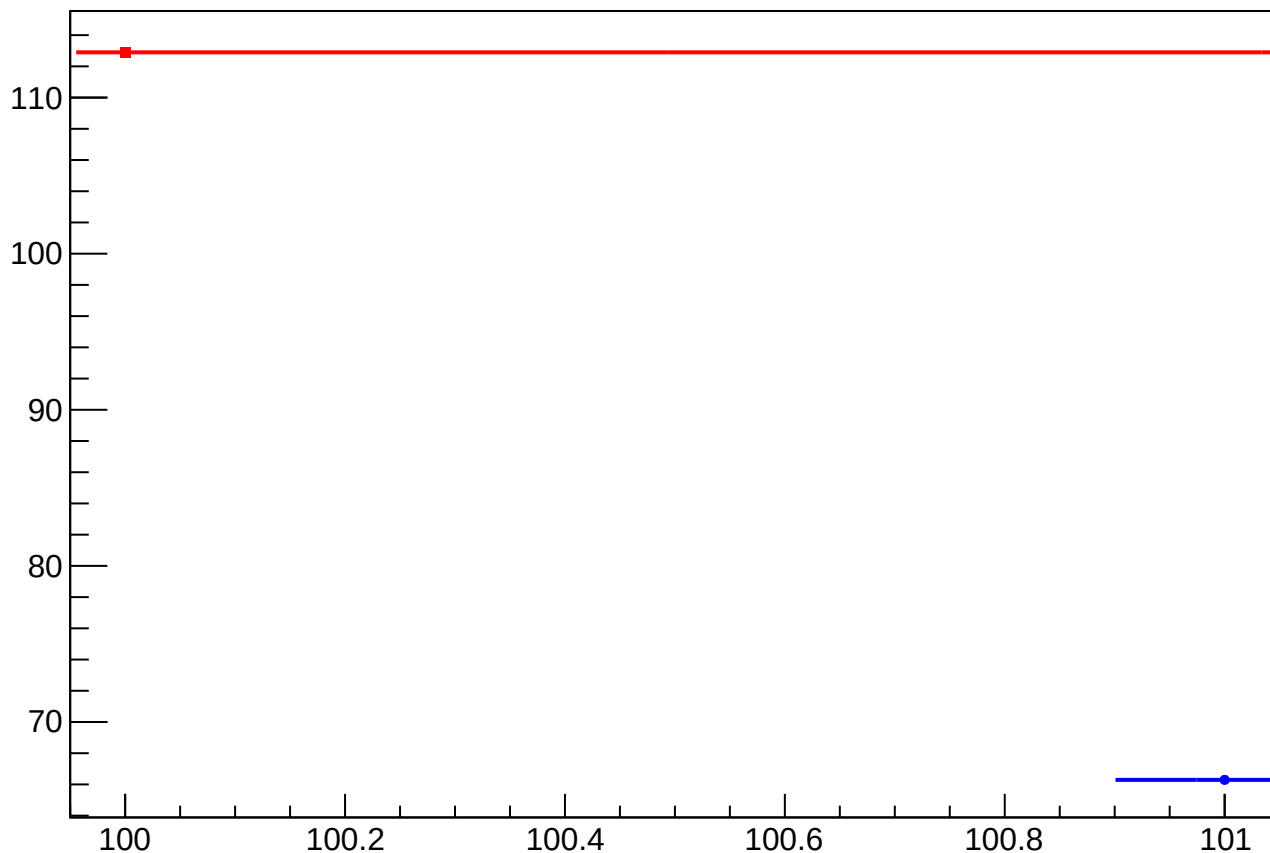
Right: 0.123 $\pm$ 0.083  $\chi^2$ /NDF: 1.1/1

In: 0.105 $\pm$ 0.085  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.123 $\pm$ 0.083  $\chi^2$ /NDF: 1.1/1

asym\_sam\_2468\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 66.293+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 112.898+/-0.299  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

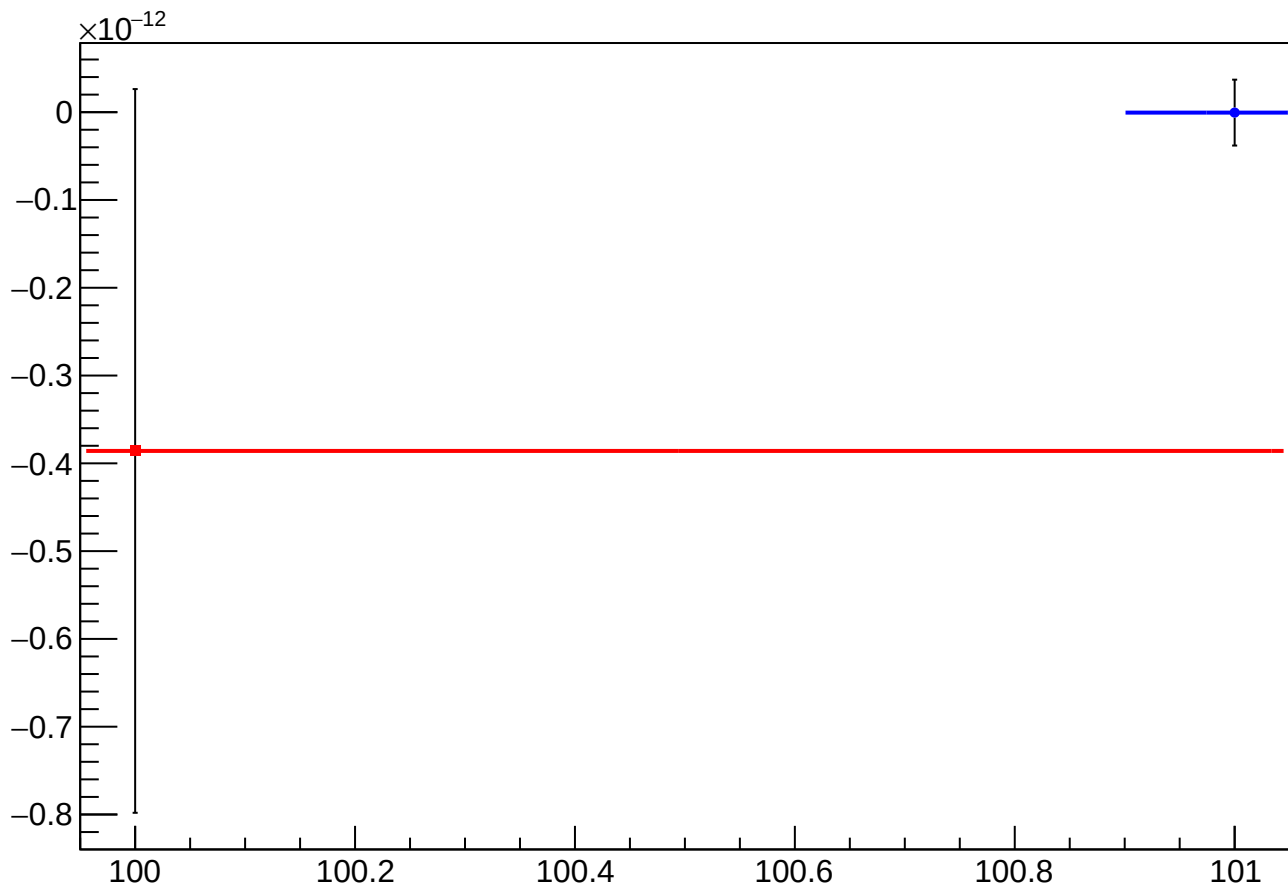
Right: 68.106+/-0.059  $\chi^2/\text{NDF}$ : 23347.9/1

In: 66.293+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 68.106+/-0.059  $\chi^2/\text{NDF}$ : 23347.9/1

asym\_sam\_2468\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

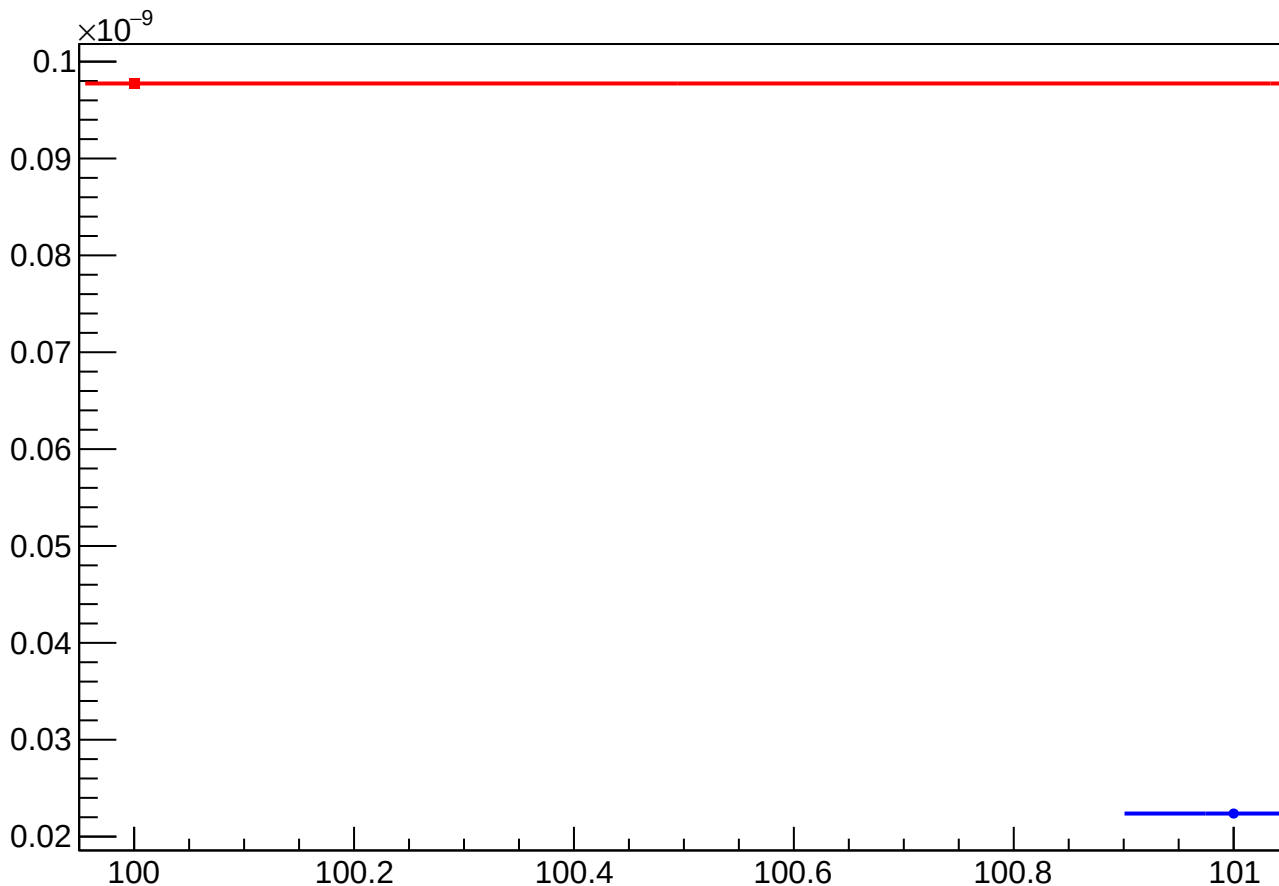
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.9/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.9/1

asym\_sam\_2468\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

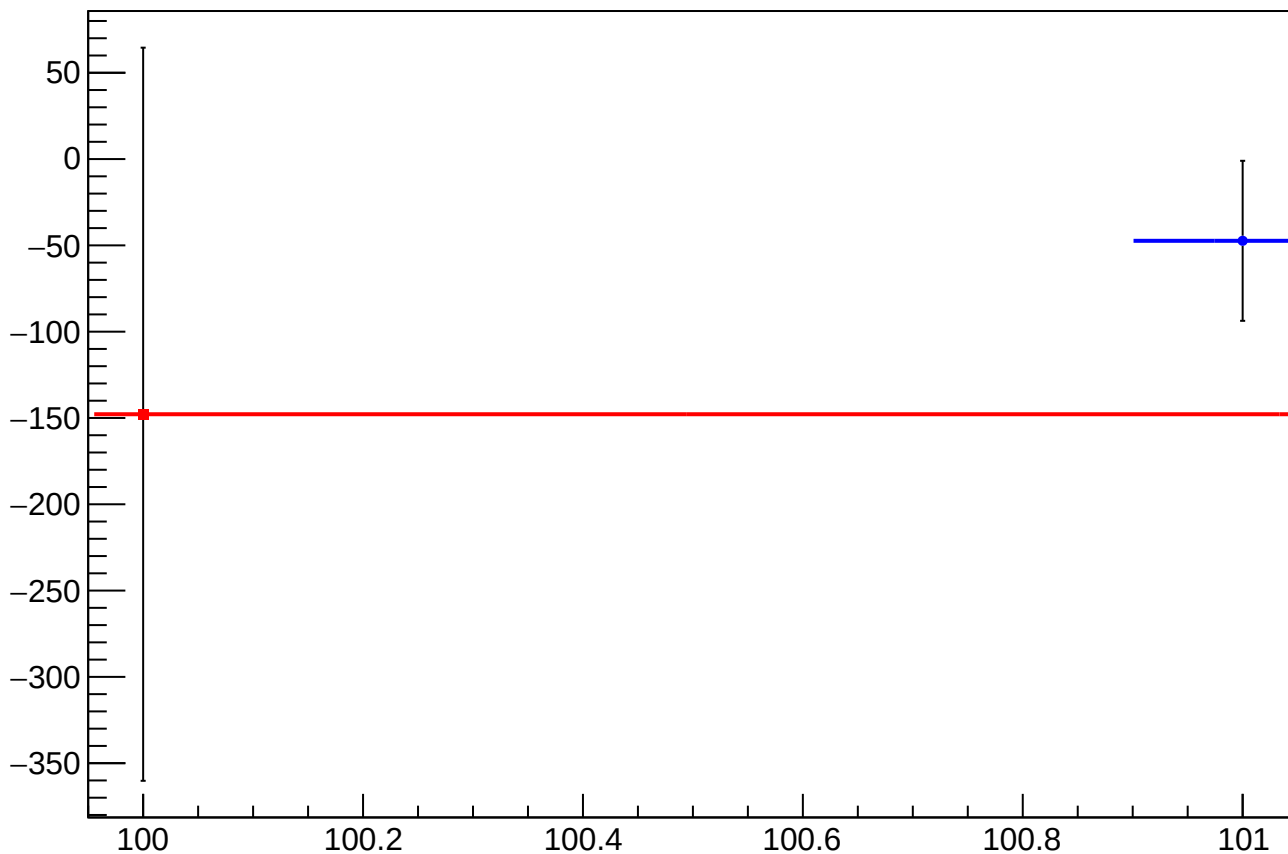
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 66301.5/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 66301.5/1

reg\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: -47.360 $\pm$ 46.351  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -147.833 $\pm$ 212.371  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

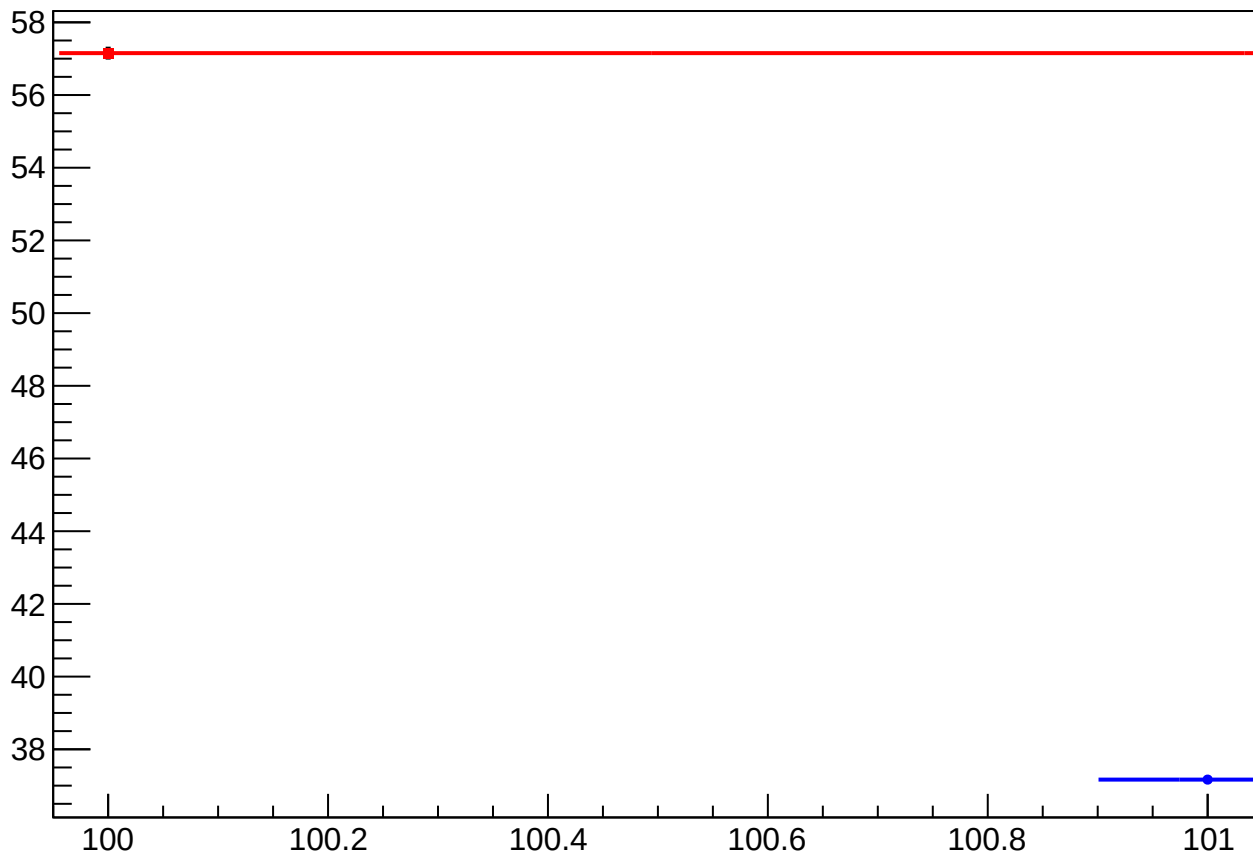
Right: -51.928 $\pm$ 45.285  $\chi^2$ /NDF: 0.2/1

In: -47.360 $\pm$ 46.351  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -51.928 $\pm$ 45.285  $\chi^2$ /NDF: 0.2/1

reg\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 37.166+/-0.033  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 57.153+/-0.150  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 38.075+/-0.032  $\chi^2/\text{NDF}$ : 16908.3/1

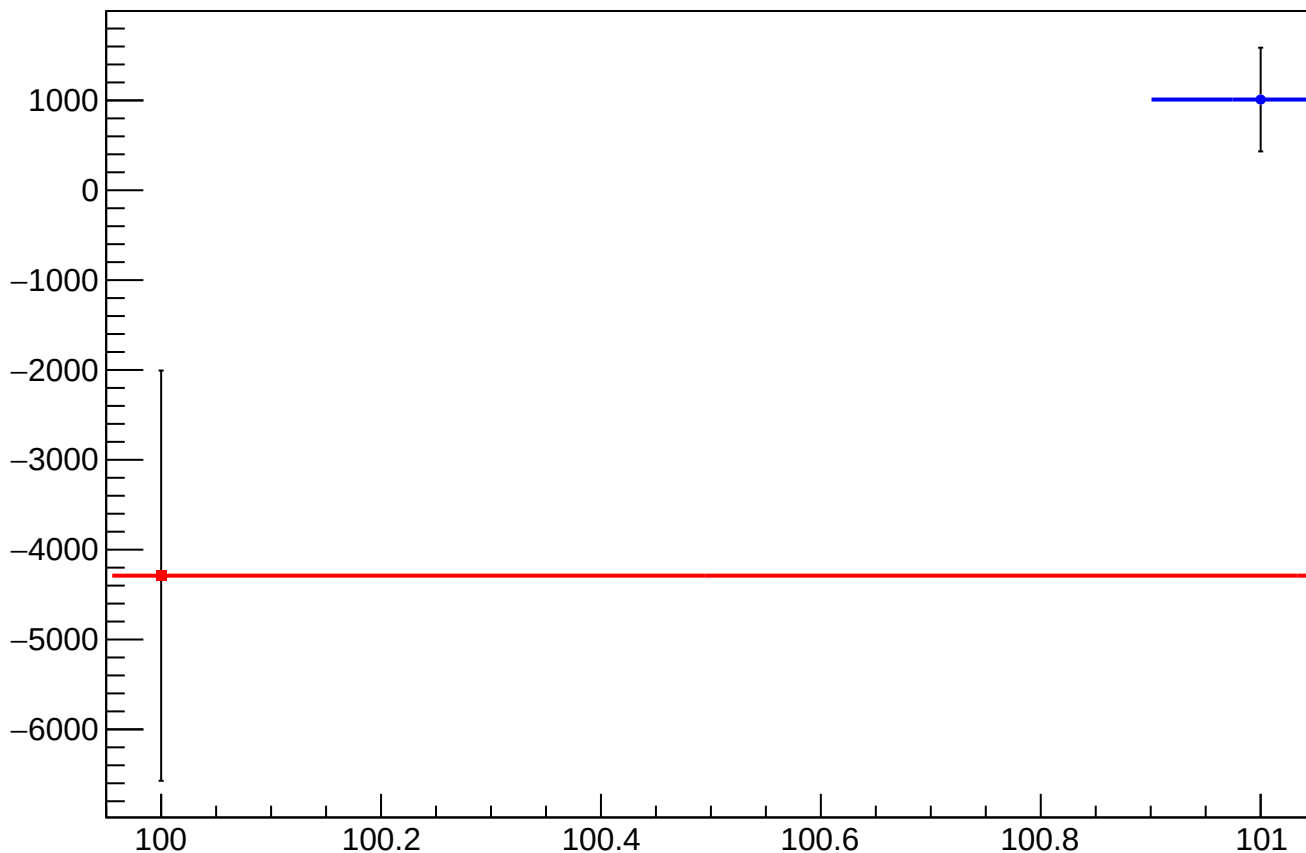
In: 37.166+/-0.033  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.075+/-0.032  $\chi^2/\text{NDF}$ : 16908.3/1



asym\_sam\_1357\_2468\_dd\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: 1009.683+/-577.306  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4289.447+/-2283.030  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

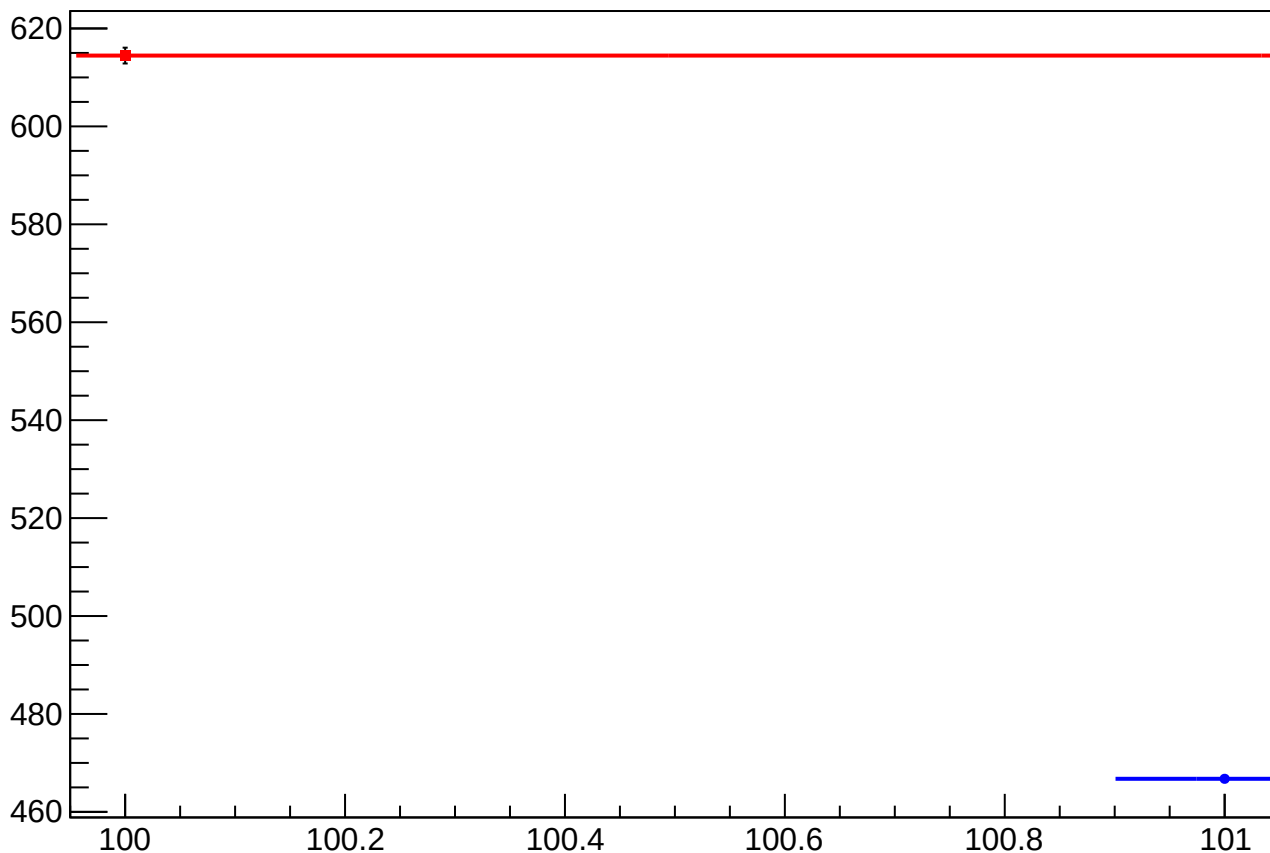
Right: 691.209+/-559.689  $\chi^2/\text{NDF}$ : 5.1/1

In: 1009.683+/-577.306  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 691.209+/-559.689  $\chi^2/\text{NDF}$ : 5.1/1

asym\_sam\_1357\_2468\_dd\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 466.756 $\pm$ 0.408  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 614.462 $\pm$ 1.614  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

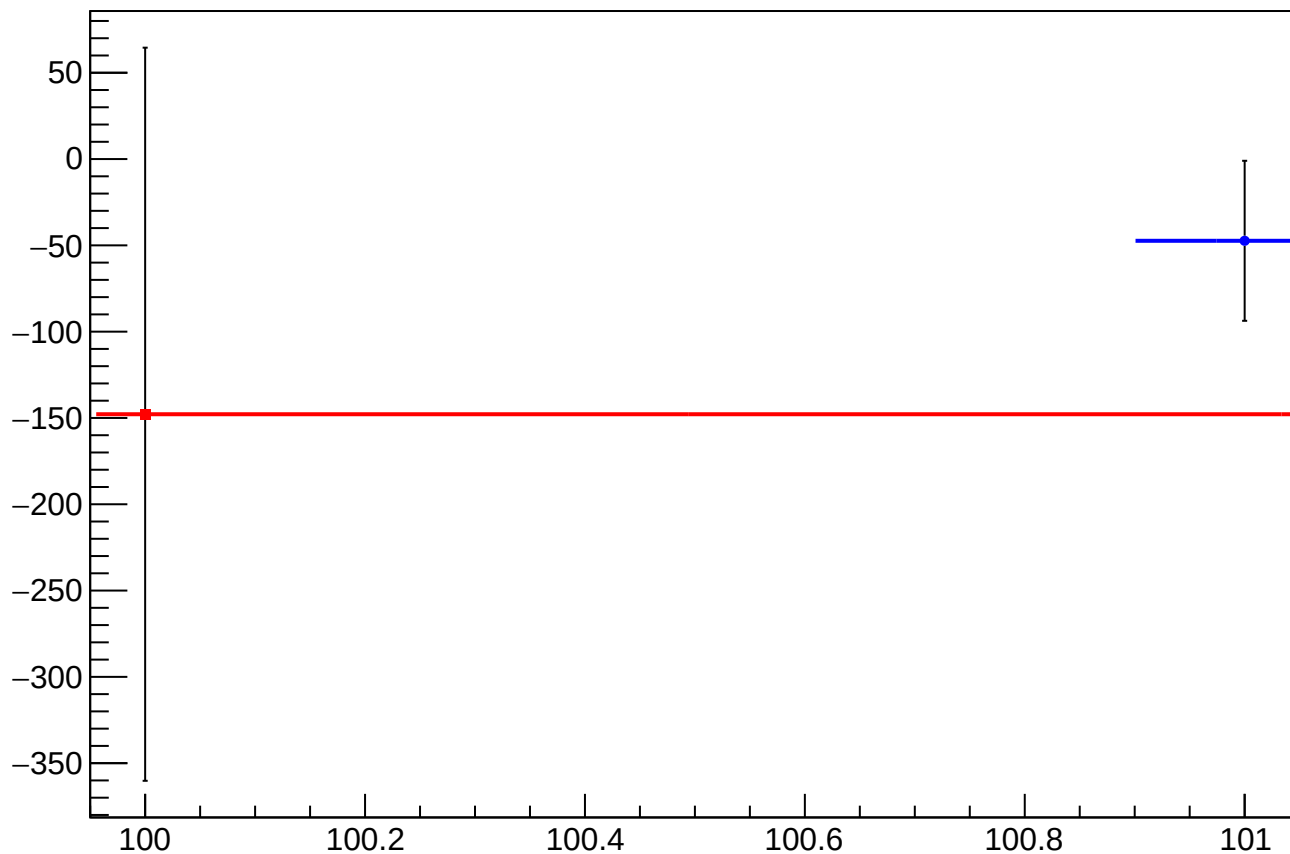
Right: 475.633 $\pm$ 0.396  $\chi^2$ /NDF: 7868.4/1

In: 466.756 $\pm$ 0.408  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 475.633 $\pm$ 0.396  $\chi^2$ /NDF: 7868.4/1

cor\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: -47.360 $\pm$ 46.351  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -147.841 $\pm$ 212.371  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

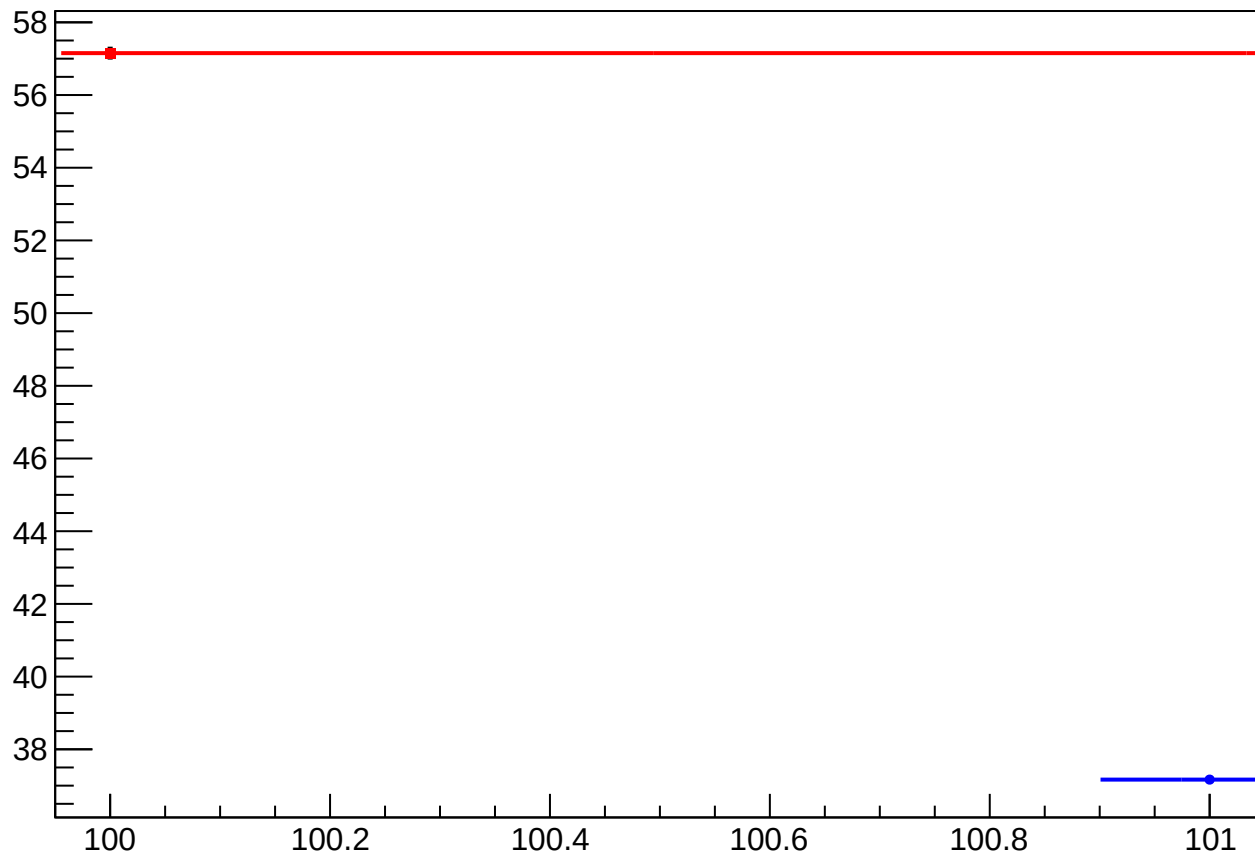
Right: -51.928 $\pm$ 45.285  $\chi^2$ /NDF: 0.2/1

In: -47.360 $\pm$ 46.351  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -51.928 $\pm$ 45.285  $\chi^2$ /NDF: 0.2/1

cor\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 37.166 $\pm$ 0.033  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 57.153 $\pm$ 0.150  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

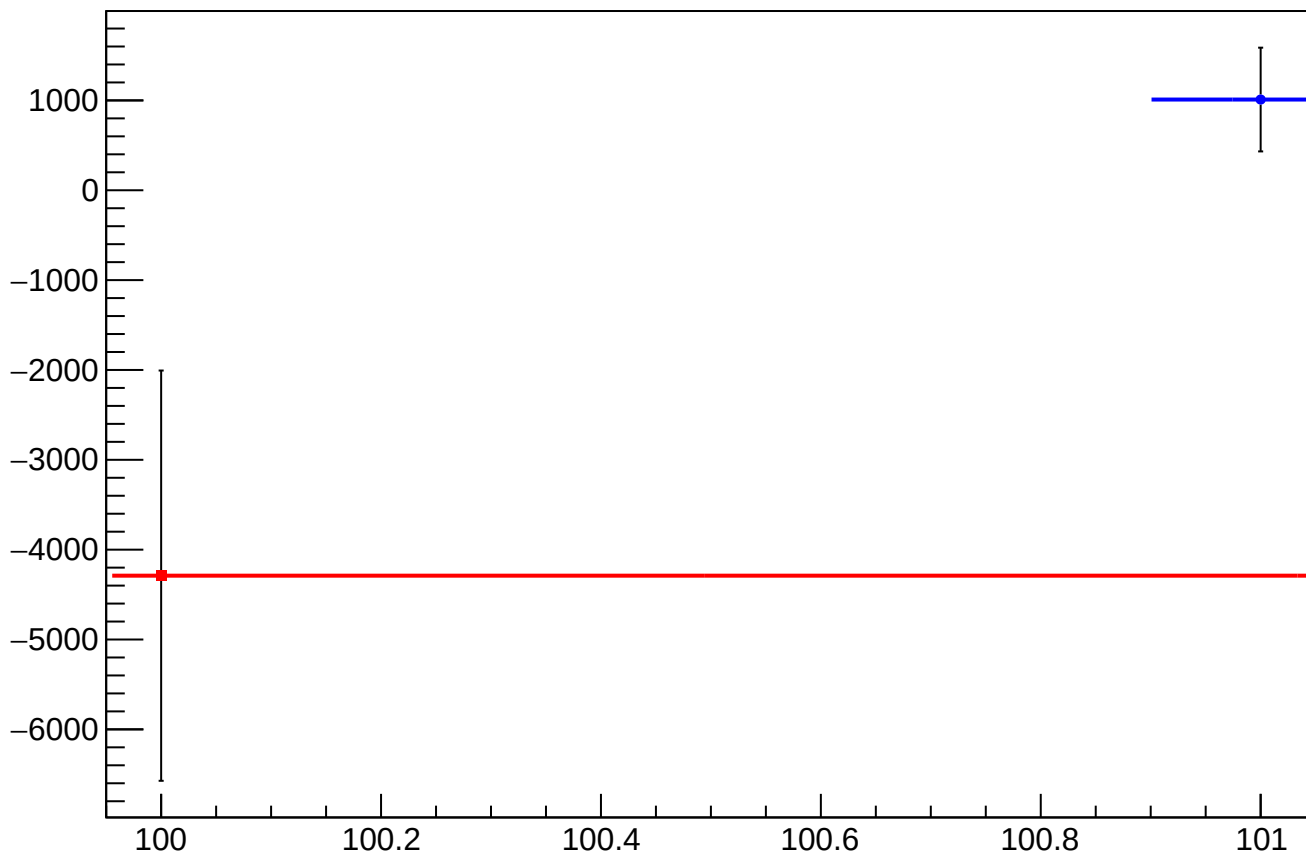
Right: 38.075 $\pm$ 0.032  $\chi^2$ /NDF: 16908.3/1

In: 37.166 $\pm$ 0.033  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.075 $\pm$ 0.032  $\chi^2$ /NDF: 16908.3/1

asym\_sam\_1357\_2468\_dd\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1009.677 $\pm$ 577.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4289.448 $\pm$ 2283.033  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

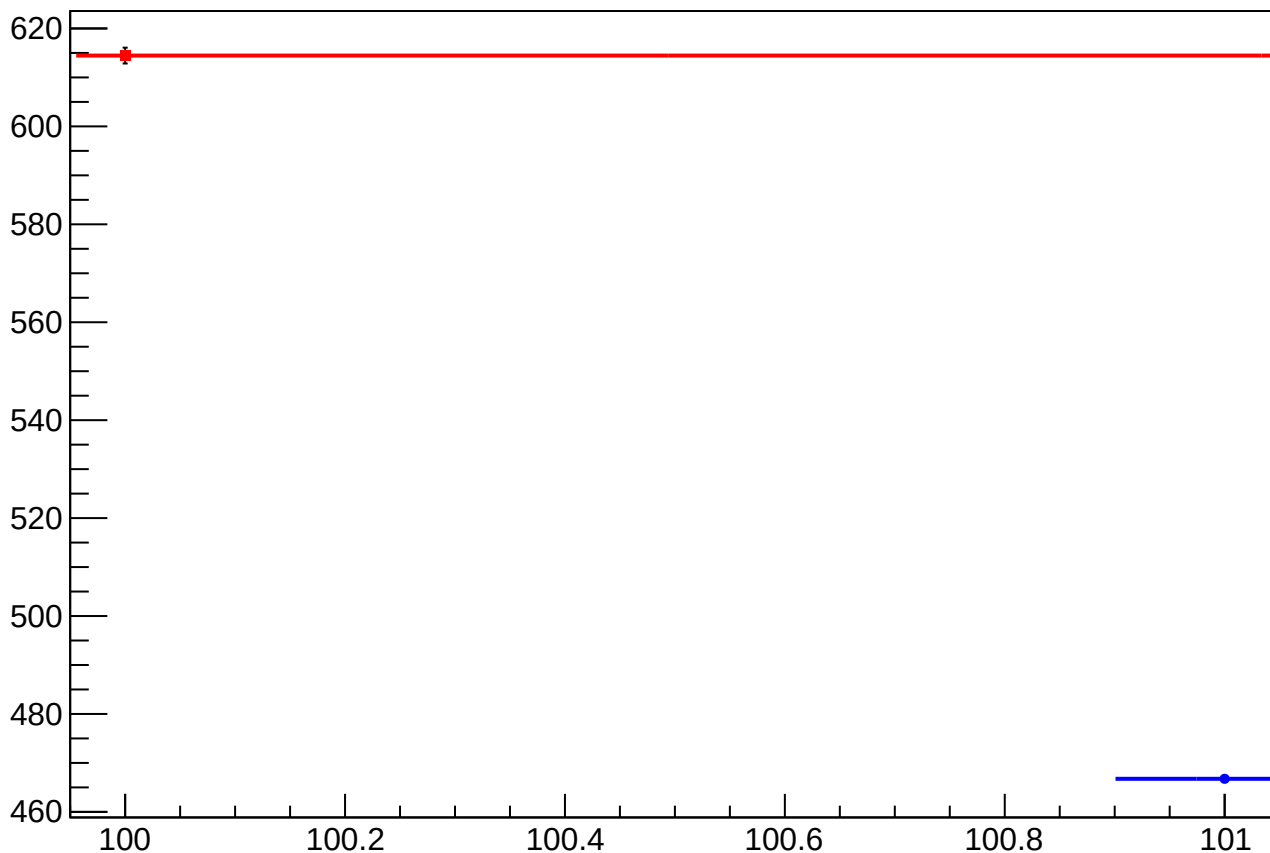
Right: 691.204 $\pm$ 559.689  $\chi^2$ /NDF: 5.1/1

In: 1009.677 $\pm$ 577.306  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 691.204 $\pm$ 559.689  $\chi^2$ /NDF: 5.1/1

asym\_sam\_1357\_2468\_dd\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 466.757 $\pm$ 0.408  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 614.463 $\pm$ 1.614  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

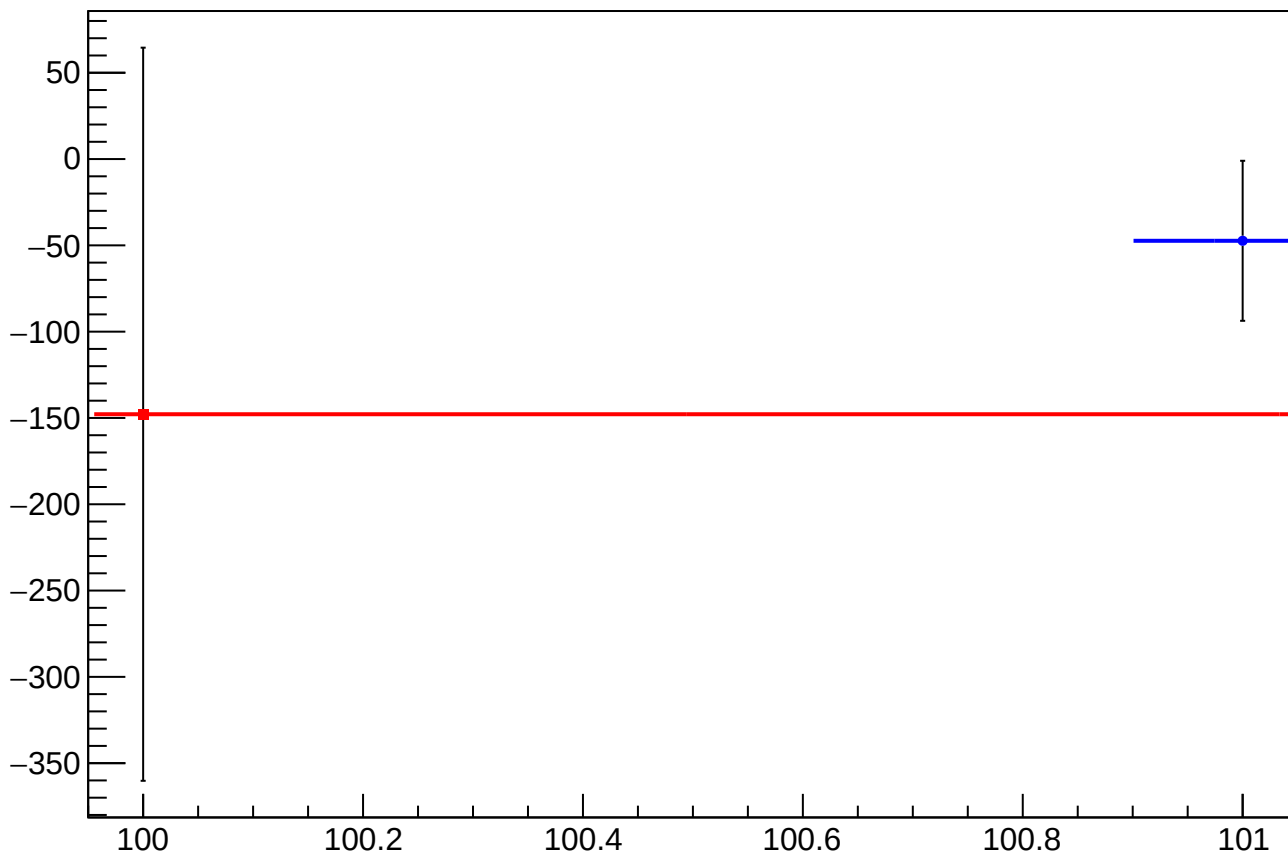
Right: 475.634 $\pm$ 0.396  $\chi^2$ /NDF: 7868.4/1

In: 466.757 $\pm$ 0.408  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 475.634 $\pm$ 0.396  $\chi^2$ /NDF: 7868.4/1

eigen\_cor\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: -47.360 $\pm$ 46.351  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -147.841 $\pm$ 212.371  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

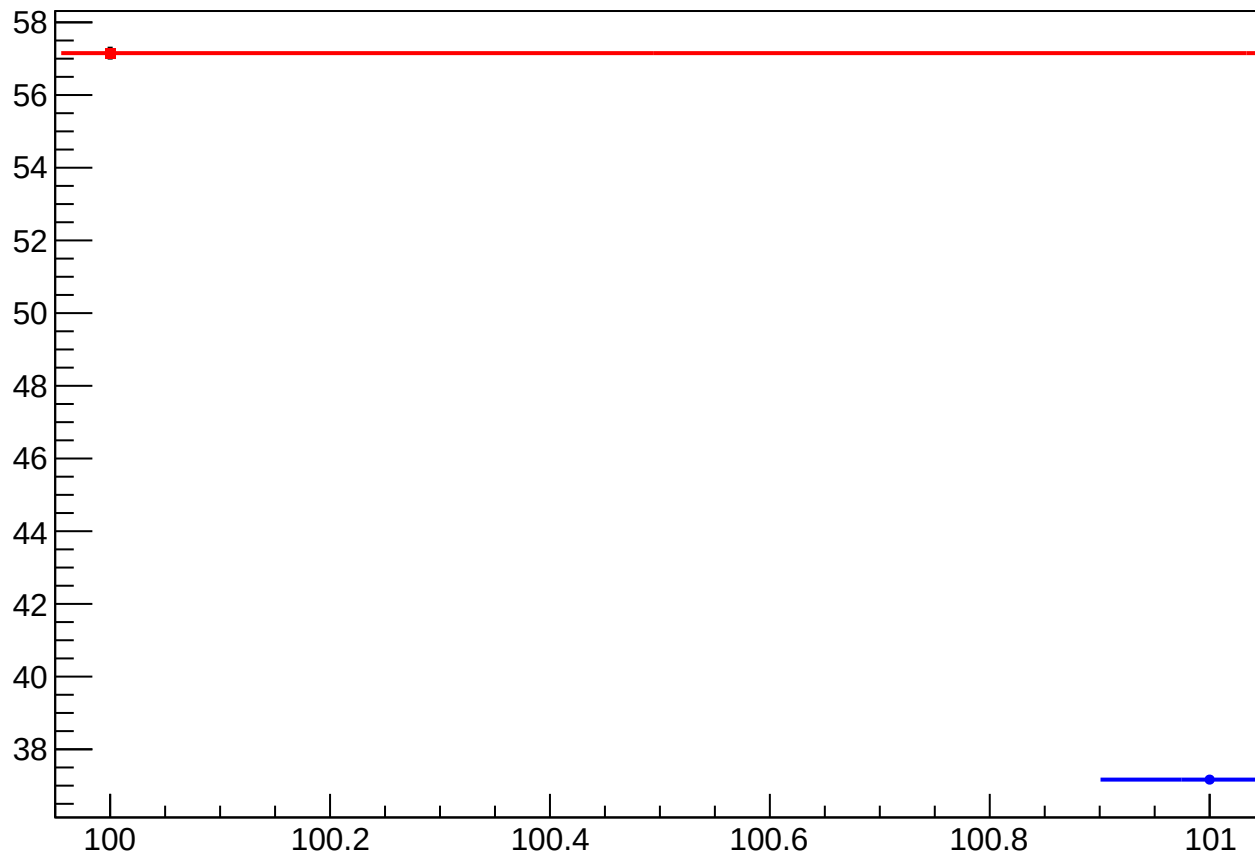
Right: -51.928 $\pm$ 45.285  $\chi^2$ /NDF: 0.2/1

In: -47.360 $\pm$ 46.351  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -51.928 $\pm$ 45.285  $\chi^2$ /NDF: 0.2/1

eigen\_cor\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 37.166 $\pm$ 0.033  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 57.153 $\pm$ 0.150  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 38.075 $\pm$ 0.032  $\chi^2$ /NDF: 16908.3/1

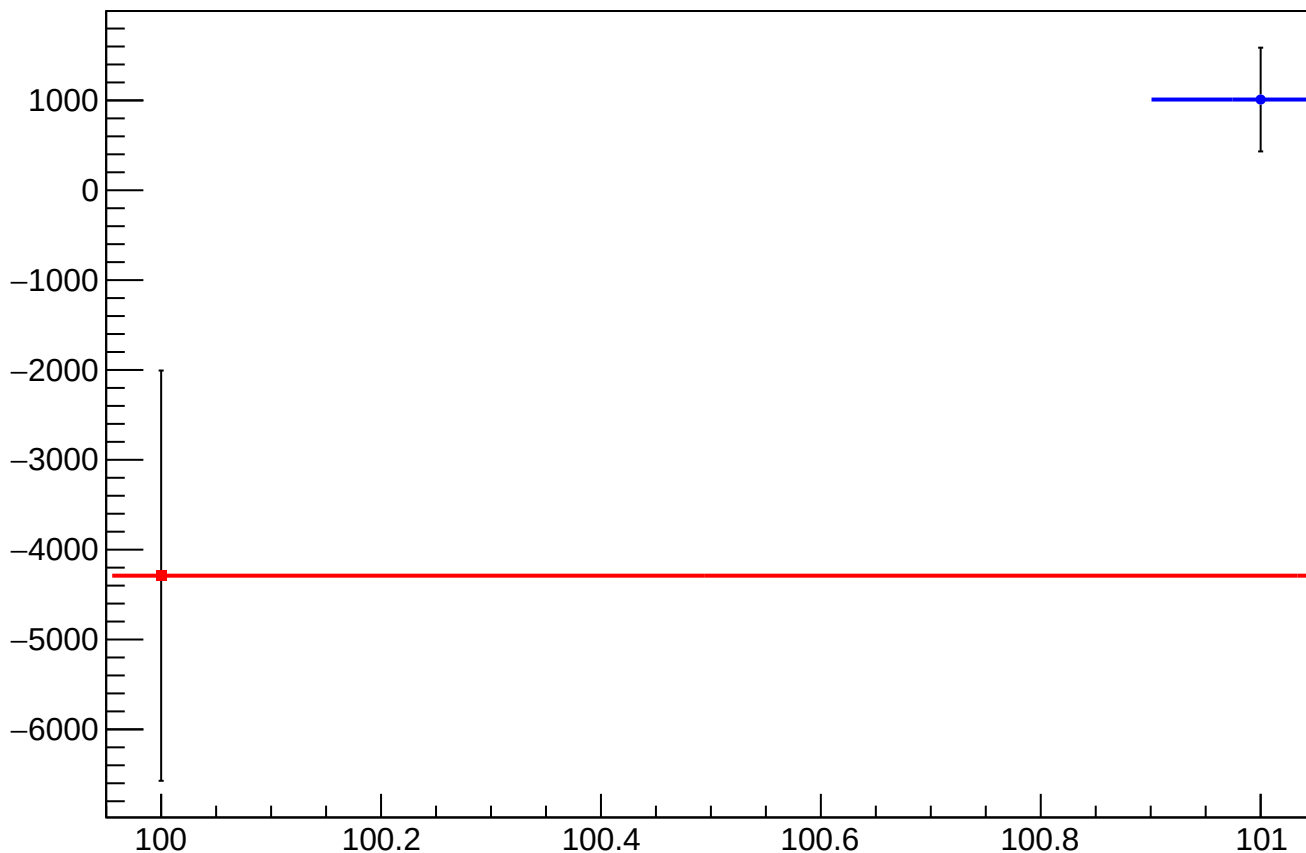
In: 37.166 $\pm$ 0.033  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 38.075 $\pm$ 0.032  $\chi^2$ /NDF: 16908.3/1



asym\_sam\_1357\_2468\_dd\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: 1009.677 $\pm$ 577.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -4289.448 $\pm$ 2283.033  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

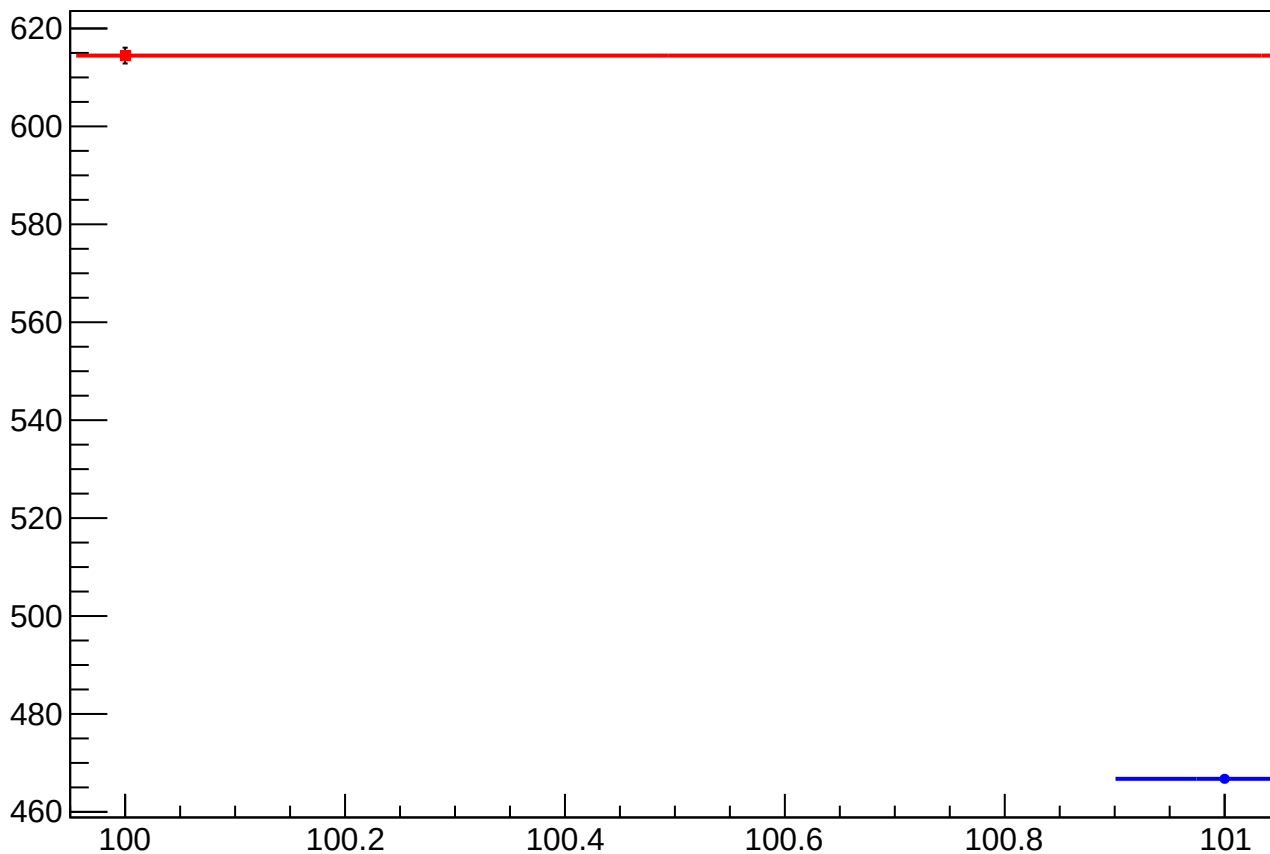
Right: 691.204 $\pm$ 559.689  $\chi^2$ /NDF: 5.1/1

In: 1009.677 $\pm$ 577.306  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 691.204 $\pm$ 559.689  $\chi^2$ /NDF: 5.1/1

asym\_sam\_1357\_2468\_dd\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 466.757 $\pm$ 0.408  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 614.463 $\pm$ 1.614  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

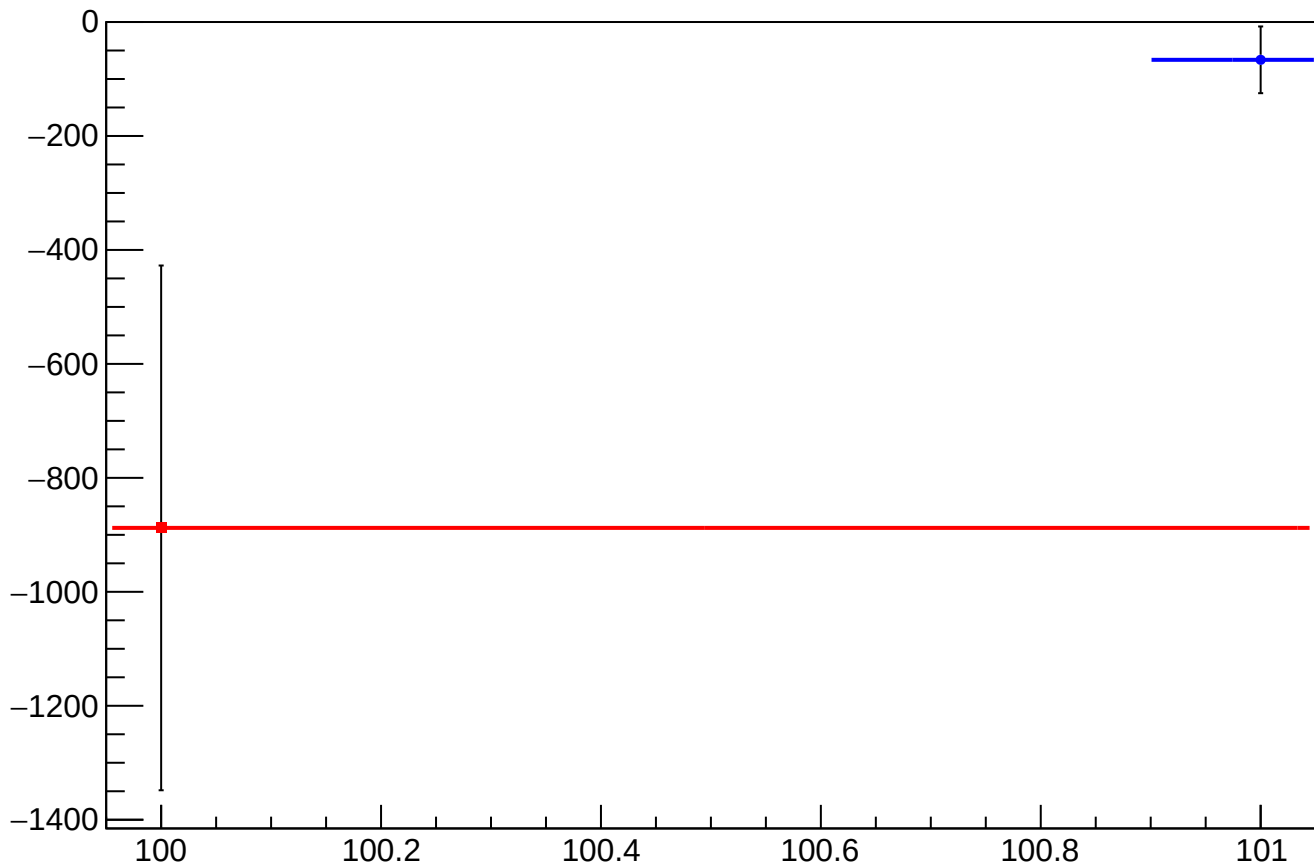
Right: 475.634 $\pm$ 0.396  $\chi^2$ /NDF: 7868.4/1

In: 466.757 $\pm$ 0.408  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 475.634 $\pm$ 0.396  $\chi^2$ /NDF: 7868.4/1

dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: -66.359 $\pm$ 58.543  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -887.800 $\pm$ 460.465  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

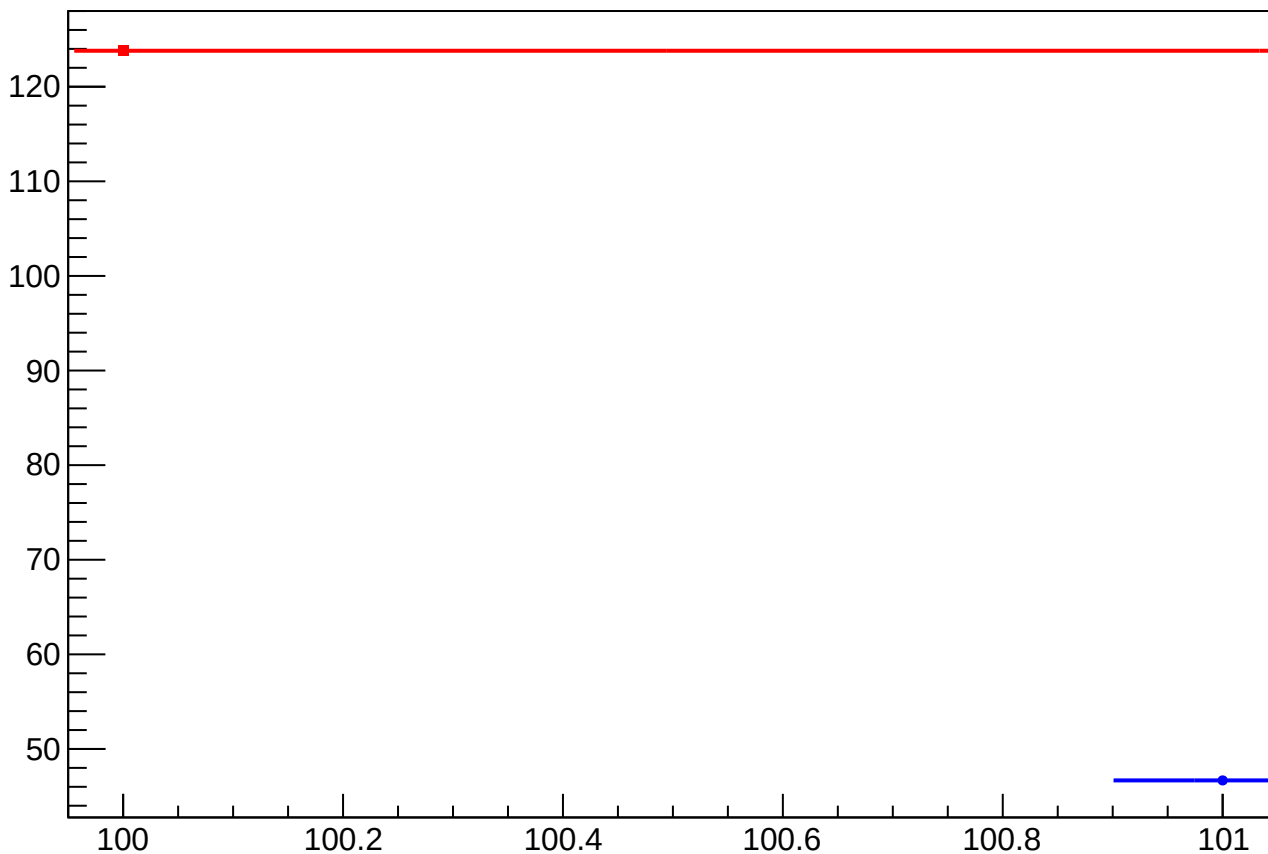
Right: -79.426 $\pm$ 58.076  $\chi^2$ /NDF: 3.1/1

In: -66.359 $\pm$ 58.543  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -79.426 $\pm$ 58.076  $\chi^2$ /NDF: 3.1/1

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 46.677 $\pm$ 0.041  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 123.802 $\pm$ 0.326  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

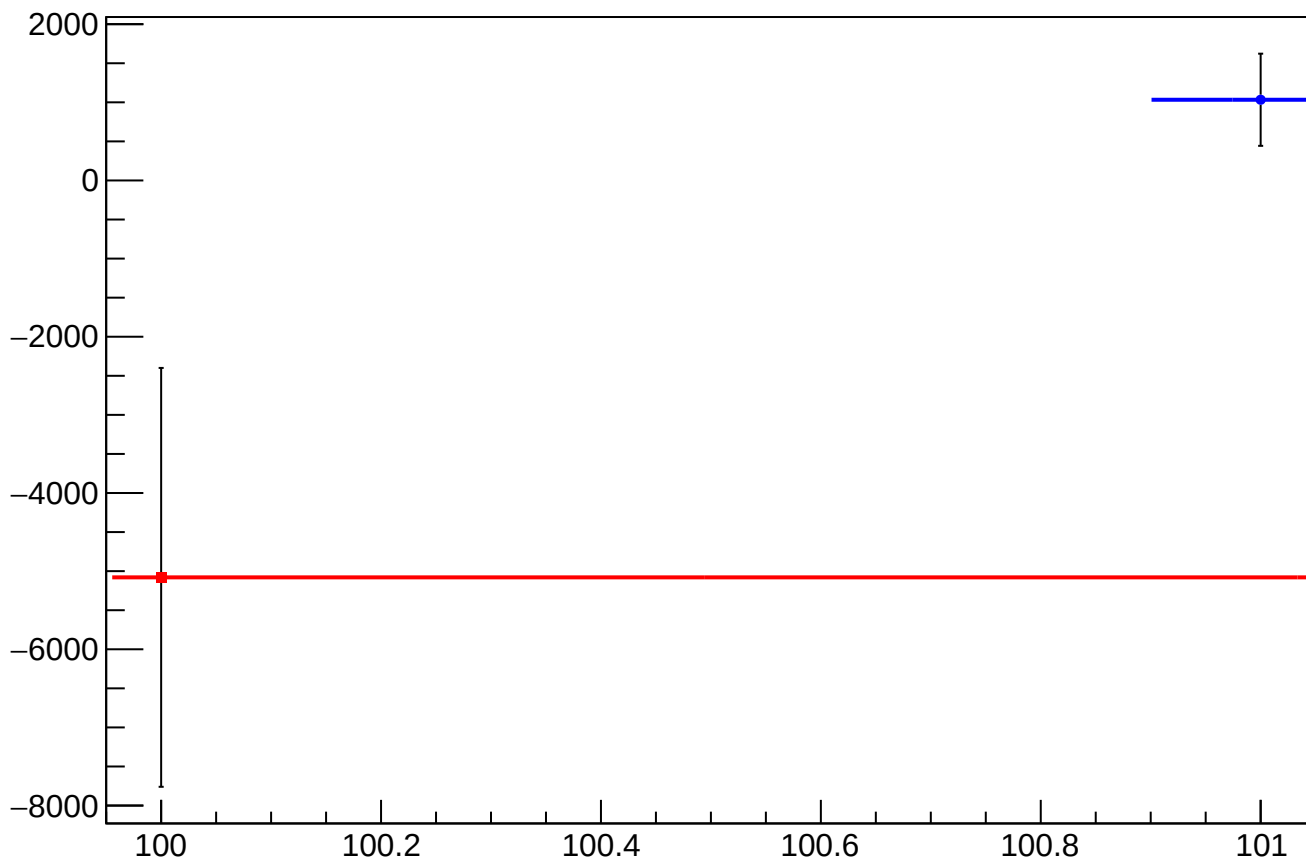
Right: 47.903 $\pm$ 0.041  $\chi^2$ /NDF: 55216.2/1

In: 46.677 $\pm$ 0.041  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 47.903 $\pm$ 0.041  $\chi^2$ /NDF: 55216.2/1

asym\_sam\_1357\_2468\_dd\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1032.772 $\pm$ 589.815  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5079.619 $\pm$ 2680.308  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

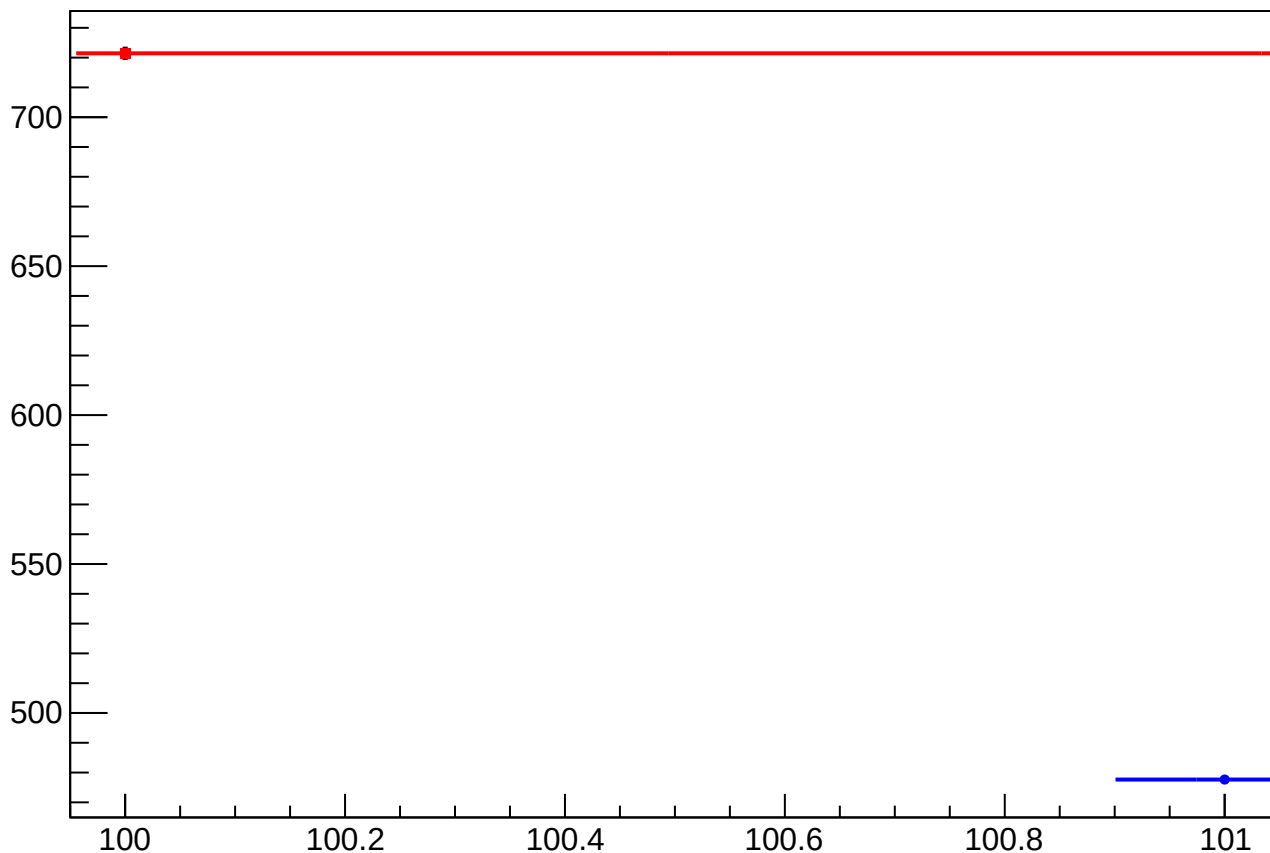
Right: 750.456 $\pm$ 576.032  $\chi^2$ /NDF: 5.0/1

In: 1032.772 $\pm$ 589.815  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 750.456 $\pm$ 576.032  $\chi^2$ /NDF: 5.0/1

asym\_sam\_1357\_2468\_dd\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 477.651 $\pm$ 0.417  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 721.442 $\pm$ 1.895  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

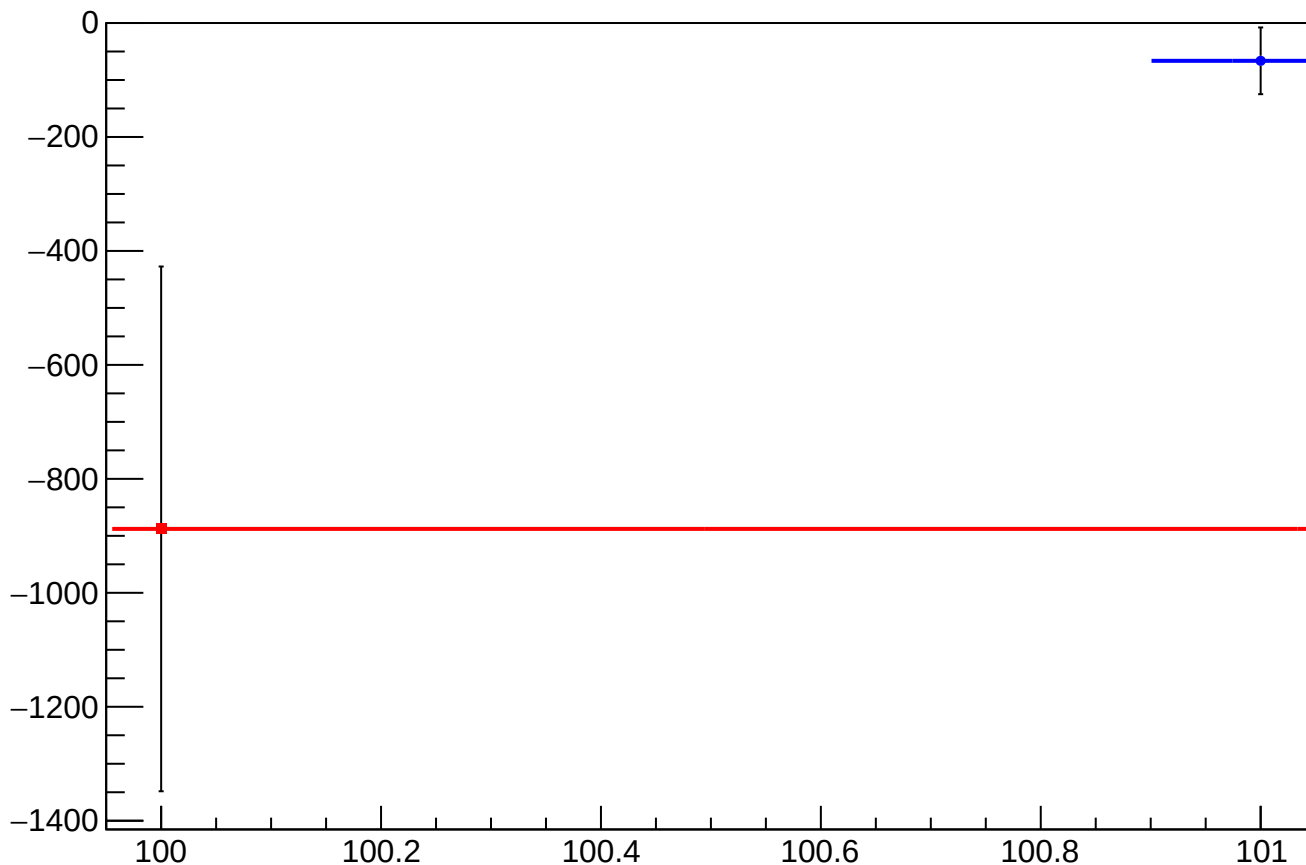
Right: 488.911 $\pm$ 0.407  $\chi^2$ /NDF: 15781.9/1

In: 477.651 $\pm$ 0.417  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 488.911 $\pm$ 0.407  $\chi^2$ /NDF: 15781.9/1

eigen\_dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: -66.356+/-58.544  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -887.809+/-460.469  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

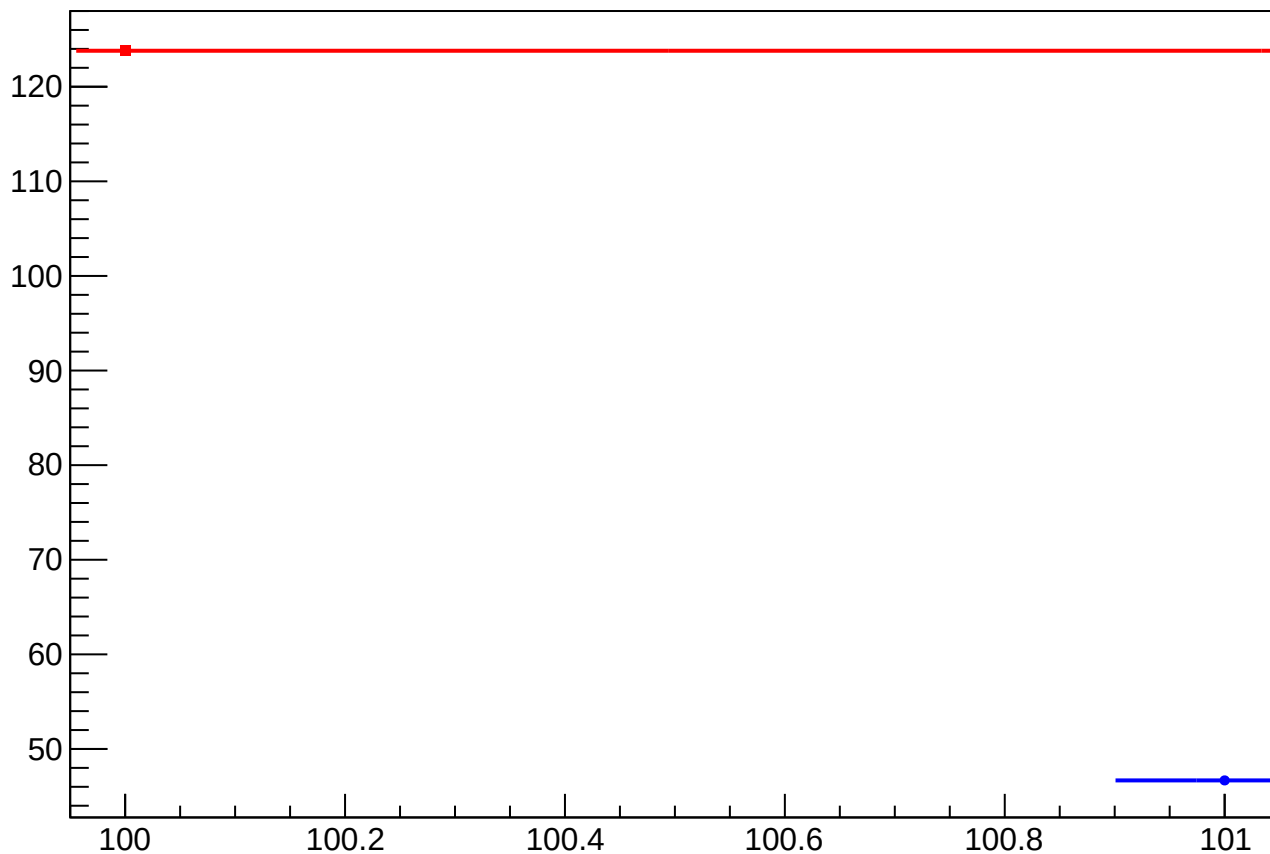
Right: -79.424+/-58.076  $\chi^2/\text{NDF}$ : 3.1/1

In: -66.356+/-58.544  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -79.424+/-58.076  $\chi^2/\text{NDF}$ : 3.1/1

eigen\_dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 46.677 $\pm$ 0.041  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 123.803 $\pm$ 0.326  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 47.904 $\pm$ 0.041  $\chi^2$ /NDF: 55216.3/1

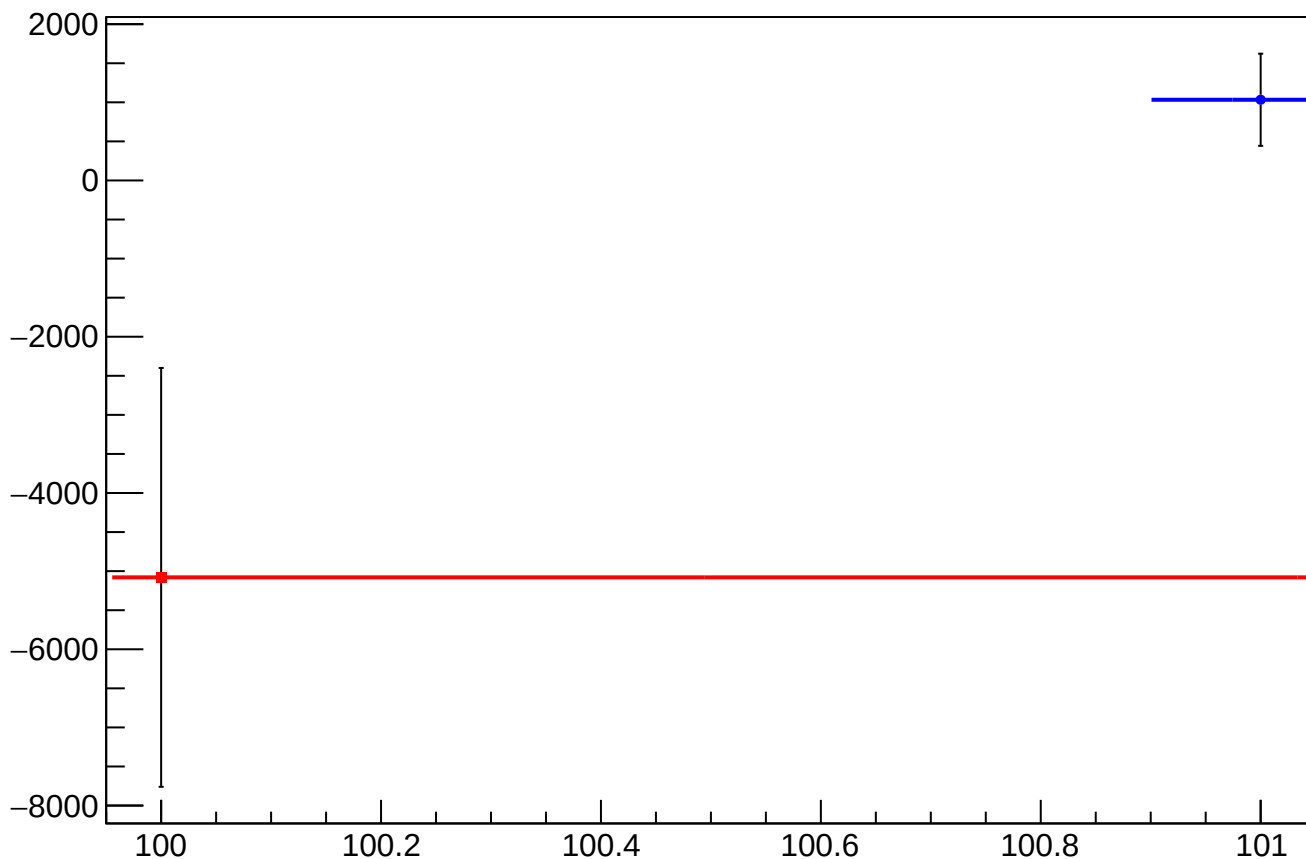
In: 46.677 $\pm$ 0.041  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 47.904 $\pm$ 0.041  $\chi^2$ /NDF: 55216.3/1



asym\_sam\_1357\_2468\_dd\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: 1032.774 $\pm$ 589.815  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -5079.628 $\pm$ 2680.311  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

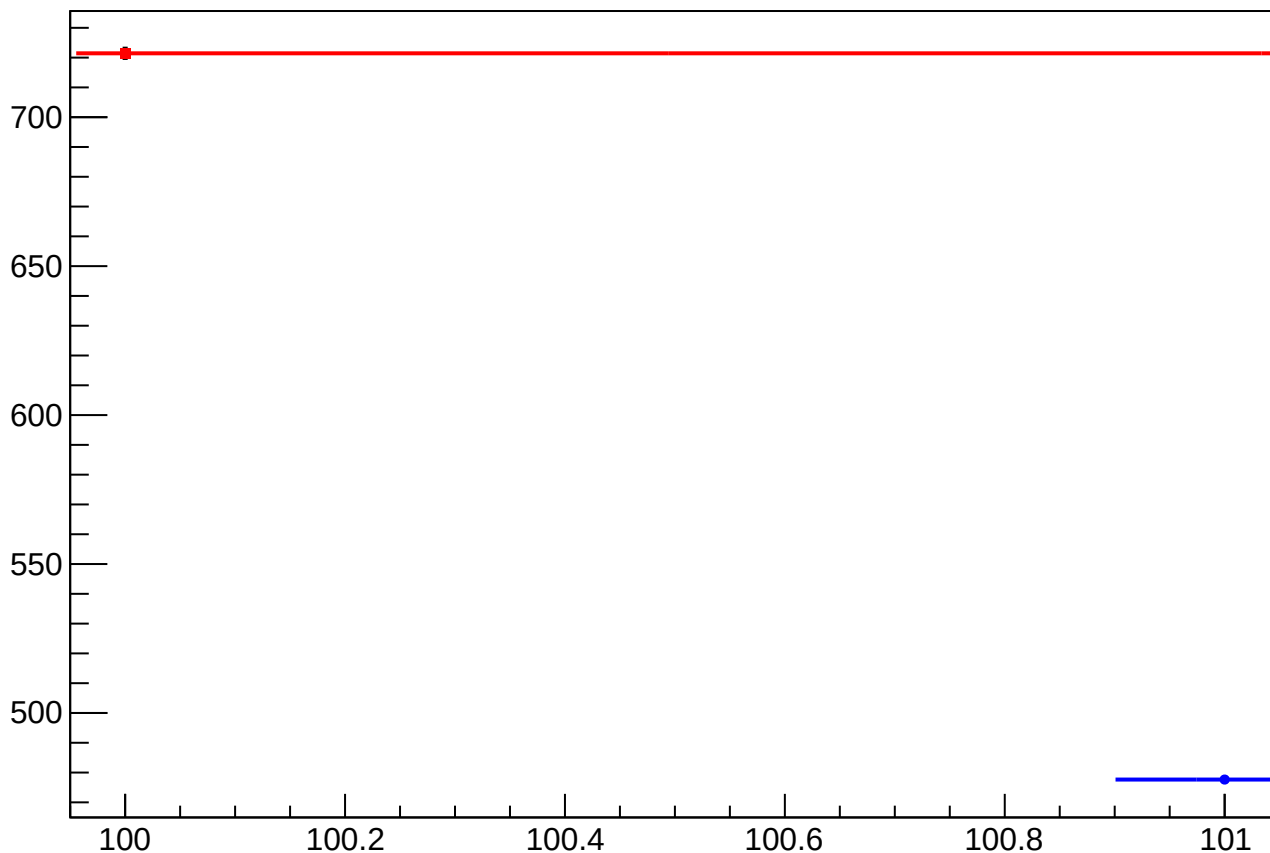
Right: 750.458 $\pm$ 576.033  $\chi^2$ /NDF: 5.0/1

In: 1032.774 $\pm$ 589.815  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 750.458 $\pm$ 576.033  $\chi^2$ /NDF: 5.0/1

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 477.651 $\pm$ 0.417  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 721.443 $\pm$ 1.895  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

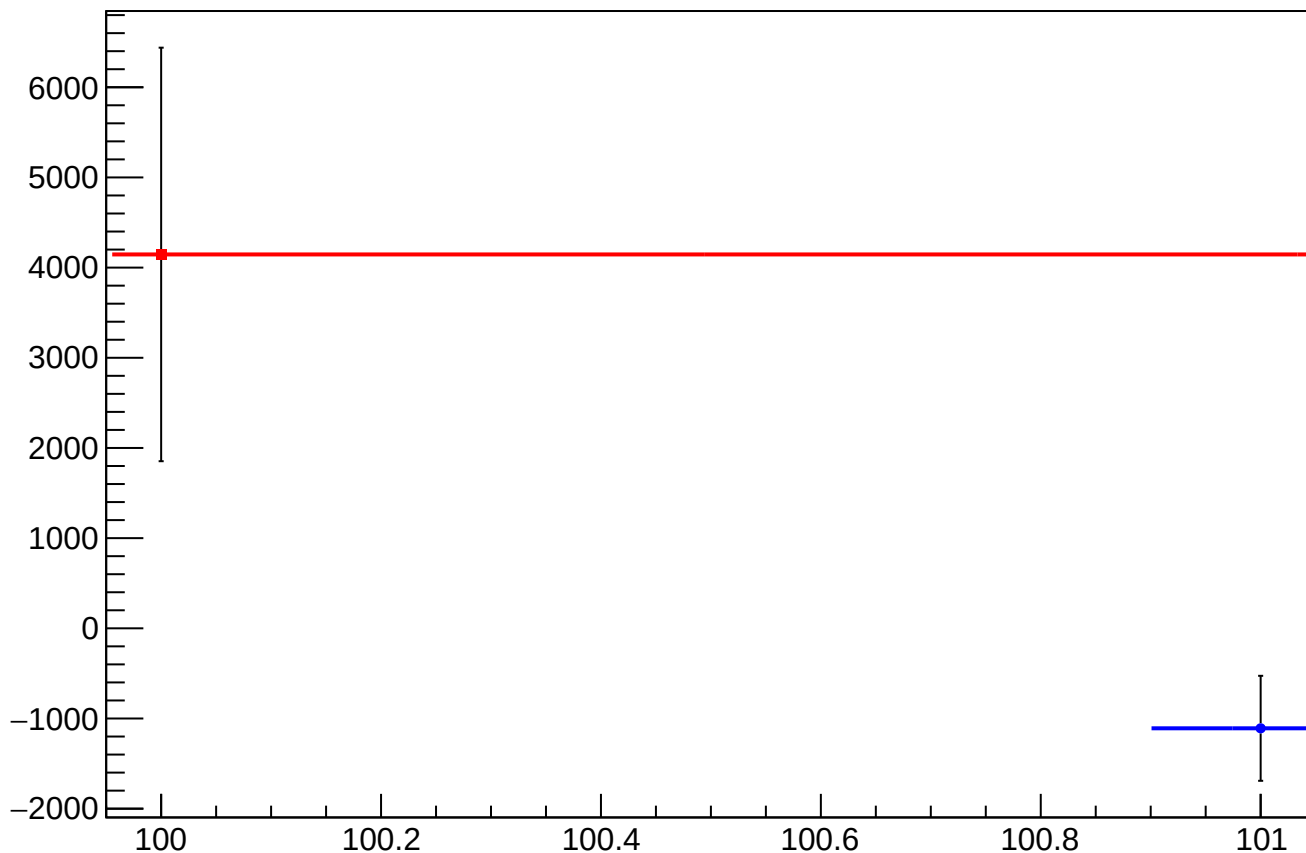
Right: 488.911 $\pm$ 0.407  $\chi^2$ /NDF: 15782.0/1

In: 477.651 $\pm$ 0.417  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 488.911 $\pm$ 0.407  $\chi^2$ /NDF: 15782.0/1

asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In: -1108.787 $\pm$ 582.089  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 4146.022 $\pm$ 2292.891  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

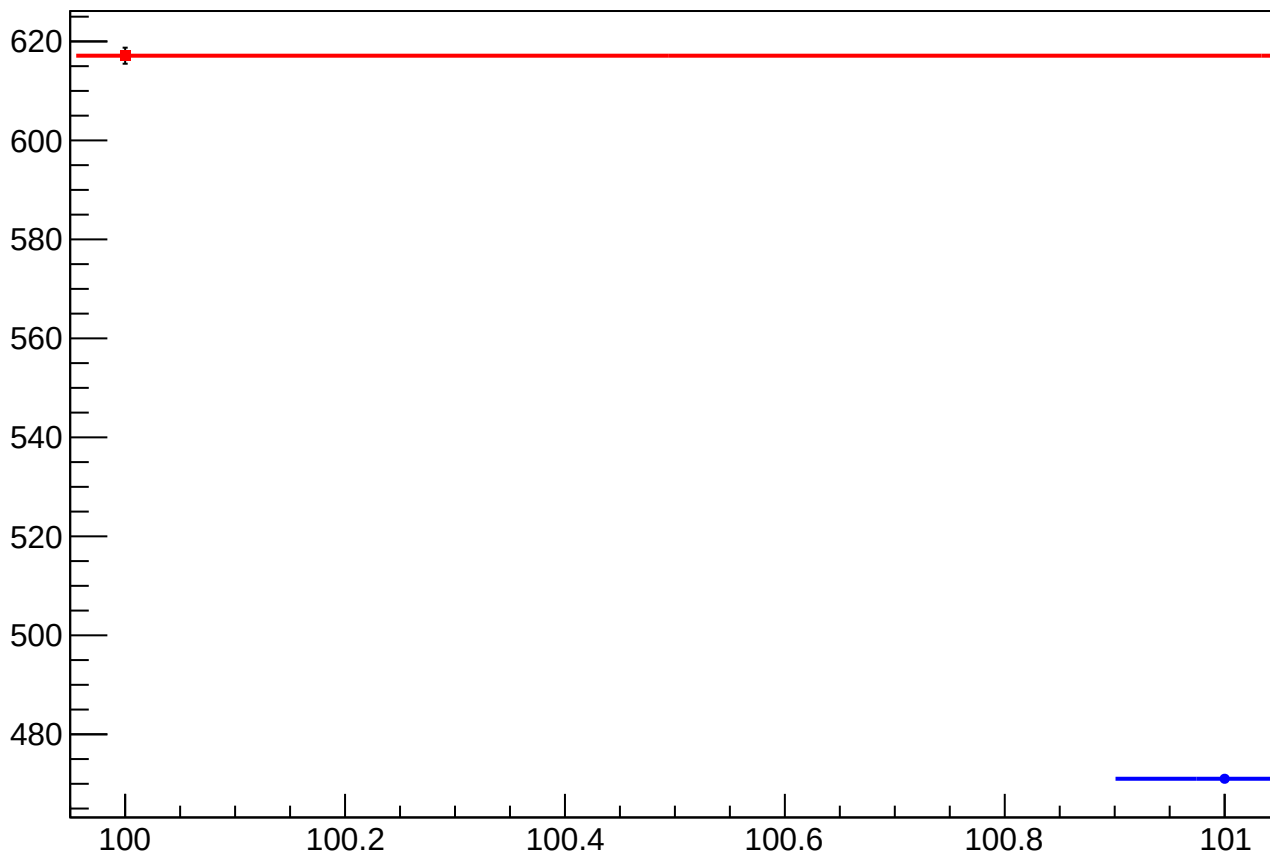
Right: -790.627 $\pm$ 564.192  $\chi^2$ /NDF: 4.9/1

In: -1108.787 $\pm$ 582.089  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -790.627 $\pm$ 564.192  $\chi^2$ /NDF: 4.9/1

asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 471.018+/-0.412  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 617.116+/-1.621  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

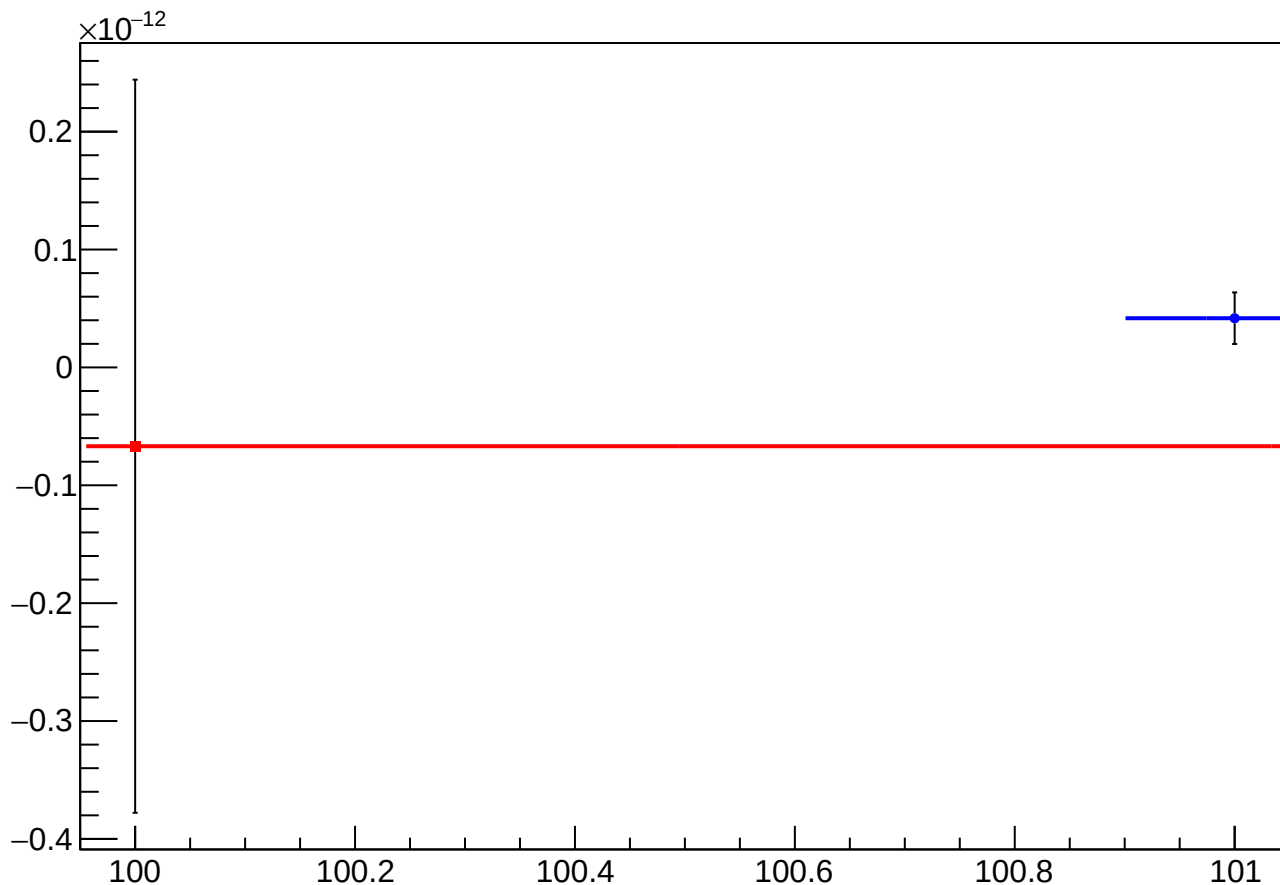
Right: 479.864+/-0.399  $\chi^2/\text{NDF}$ : 7628.3/1

In: 471.018+/-0.412  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 479.864+/-0.399  $\chi^2/\text{NDF}$ : 7628.3/1

asym\_sam\_1357\_2468\_dd\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

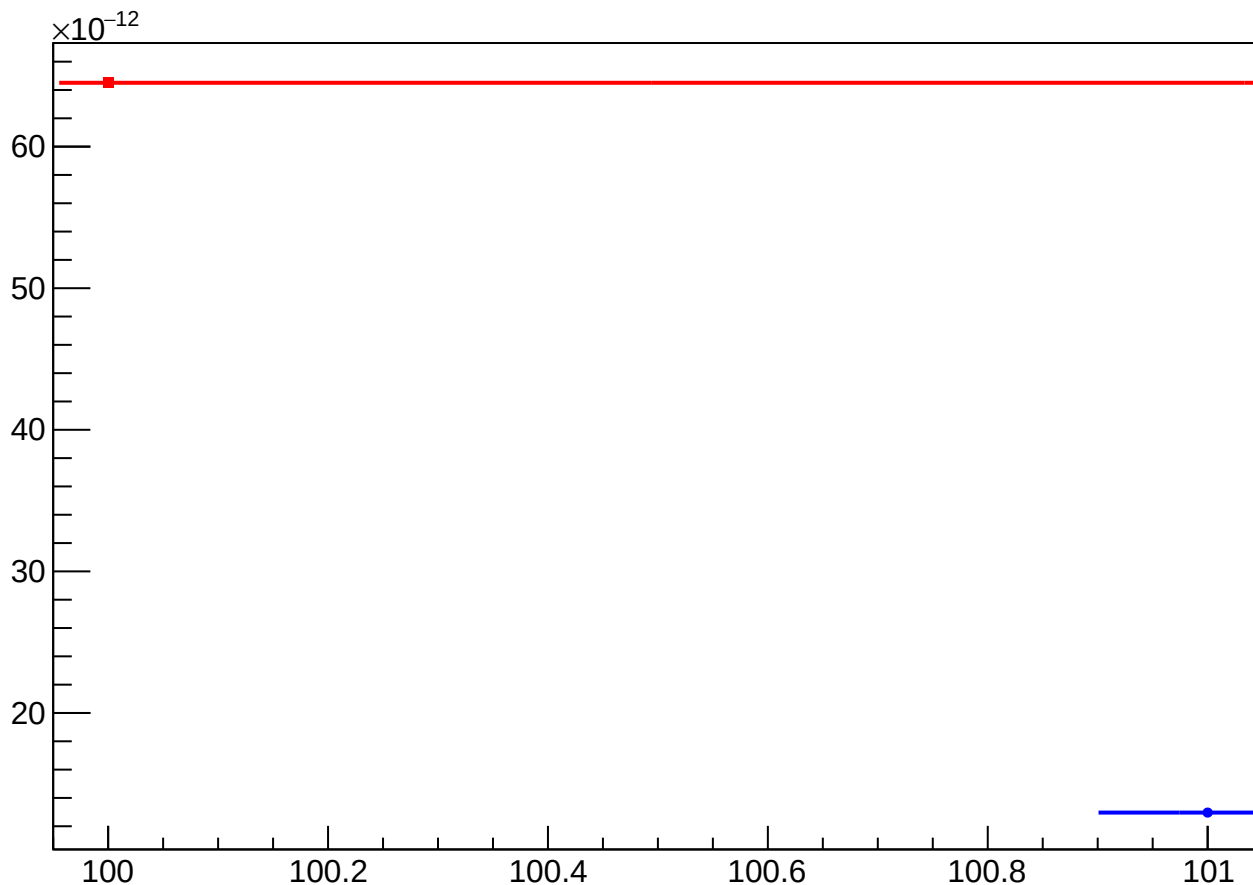
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.1/1

asym\_sam\_1357\_2468\_dd\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

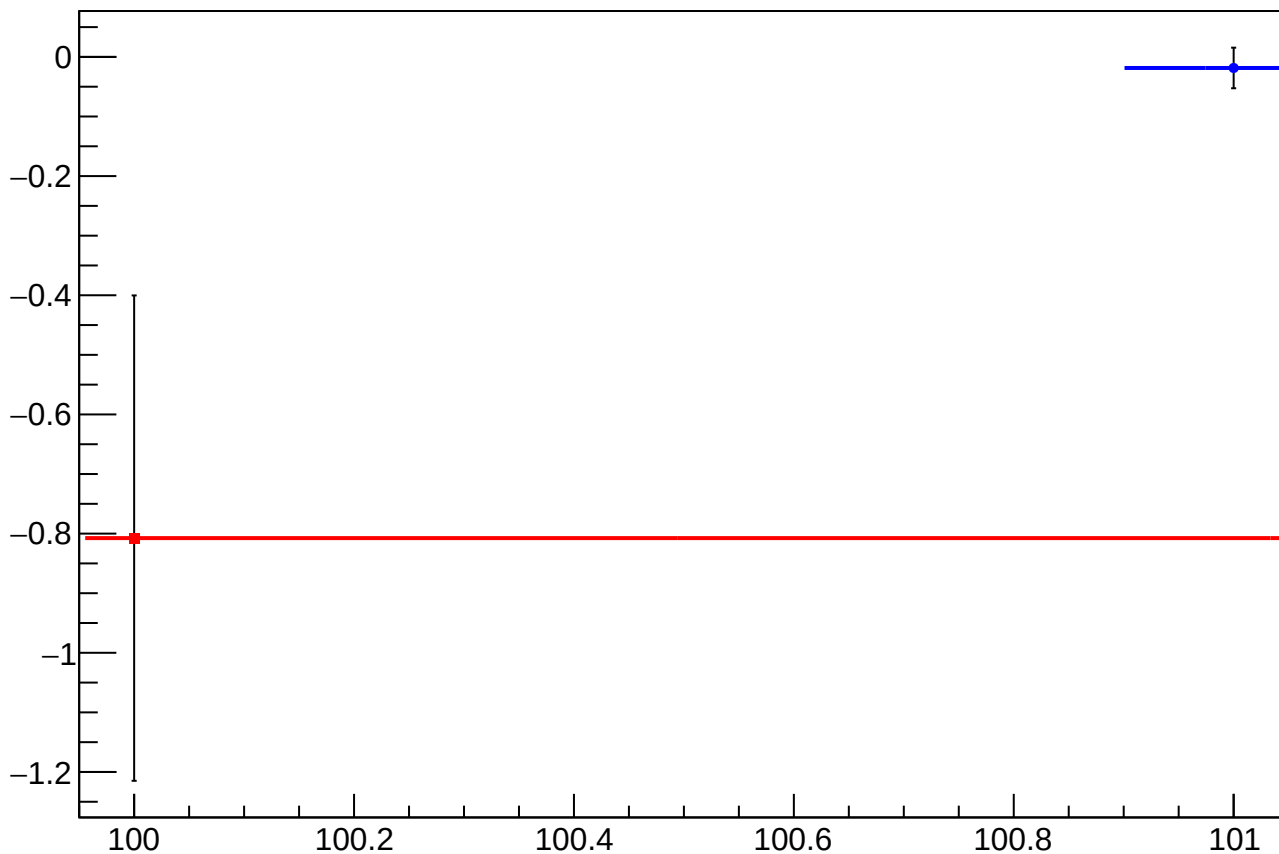
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 54673.0/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 54673.0/1

asym\_sam\_1357\_2468\_dd\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.019 $\pm$ 0.034  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.808 $\pm$ 0.407  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

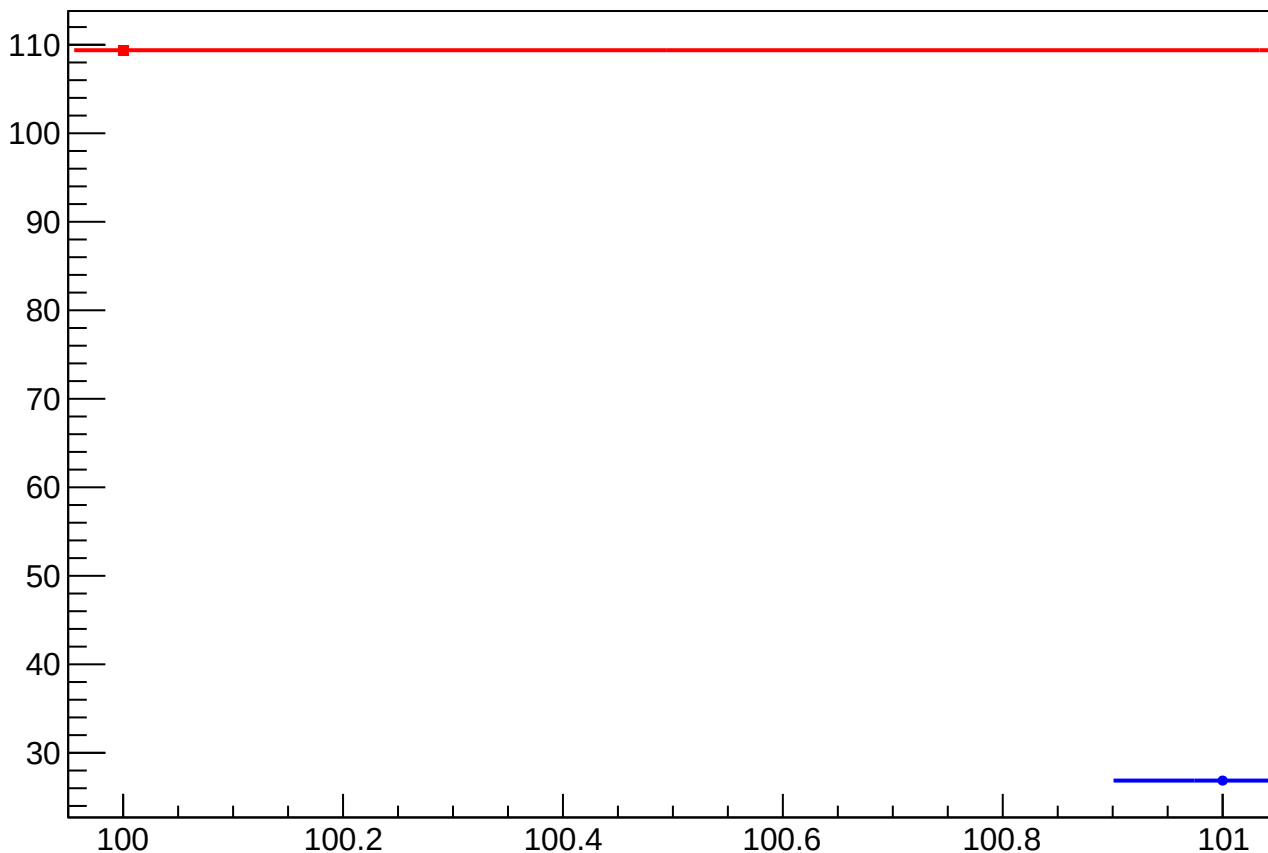
Right: -0.024 $\pm$ 0.034  $\chi^2$ /NDF: 3.7/1

In: -0.019 $\pm$ 0.034  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.024 $\pm$ 0.034  $\chi^2$ /NDF: 3.7/1

asym\_sam\_1357\_2468\_dd\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 26.865 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.385 $\pm$ 0.288  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 27.438 $\pm$ 0.024  $\chi^2$ /NDF: 81533.2/1

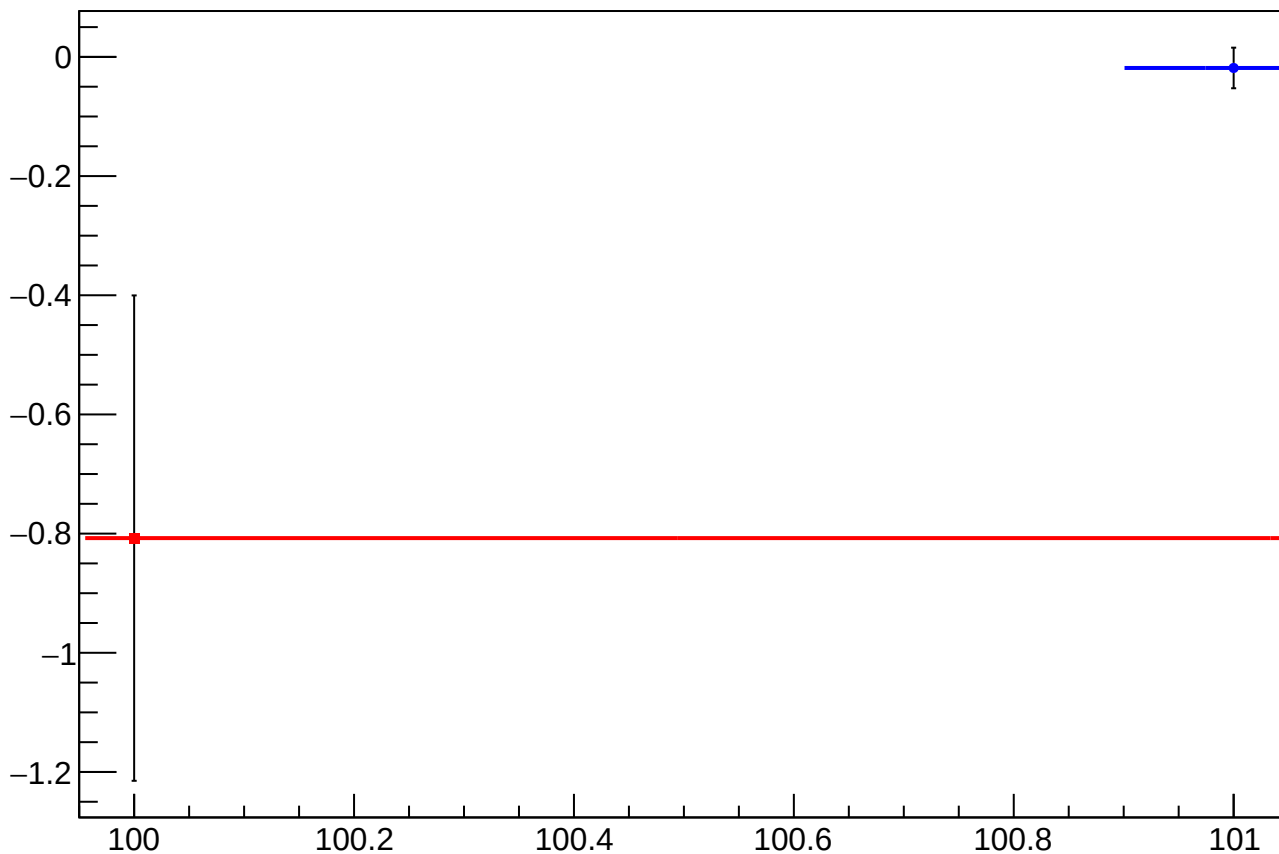
In: 26.865 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.438 $\pm$ 0.024  $\chi^2$ /NDF: 81533.2/1



asym\_sam\_1357\_2468\_dd\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.019 $\pm$ 0.034  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.808 $\pm$ 0.407  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

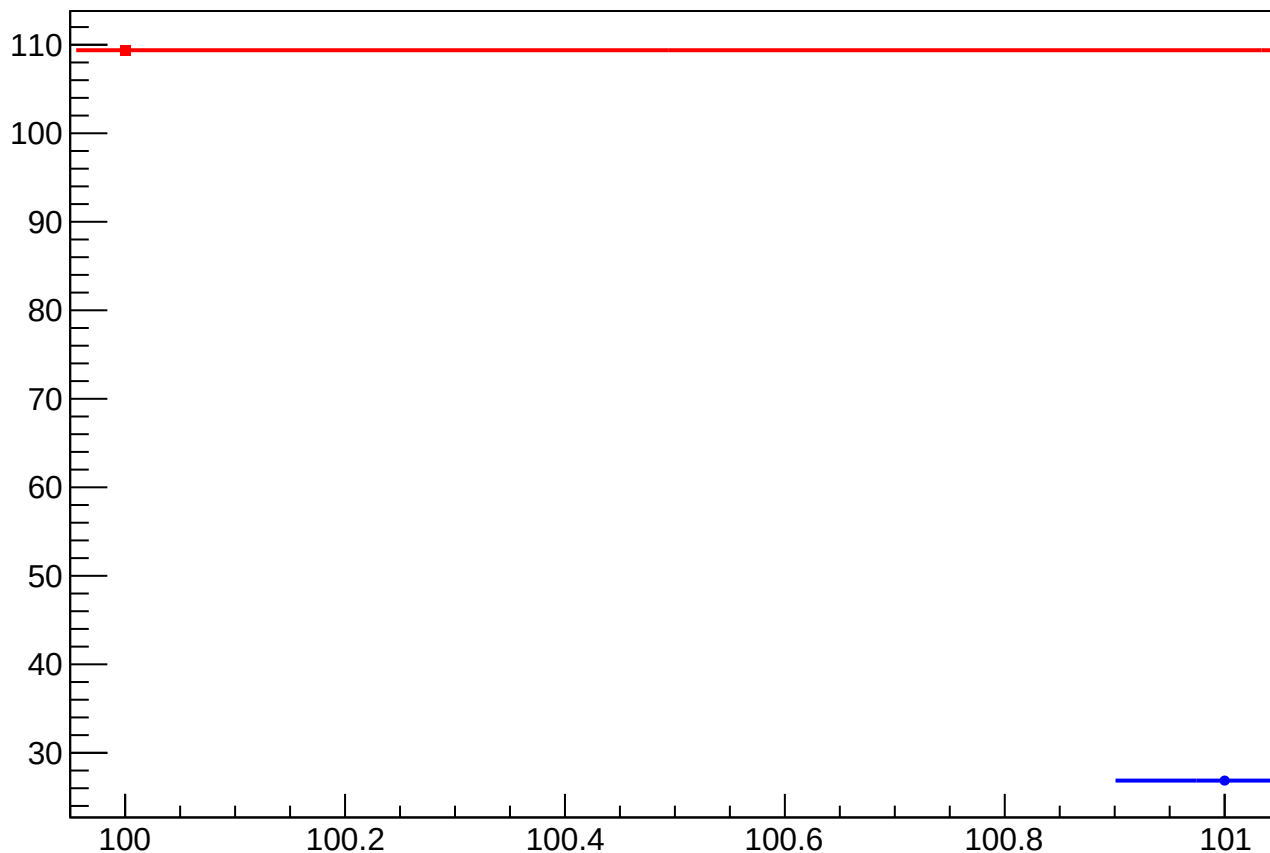
Right: -0.024 $\pm$ 0.034  $\chi^2$ /NDF: 3.7/1

In: -0.019 $\pm$ 0.034  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.024 $\pm$ 0.034  $\chi^2$ /NDF: 3.7/1

asym\_sam\_1357\_2468\_dd\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 26.865 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.385 $\pm$ 0.288  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

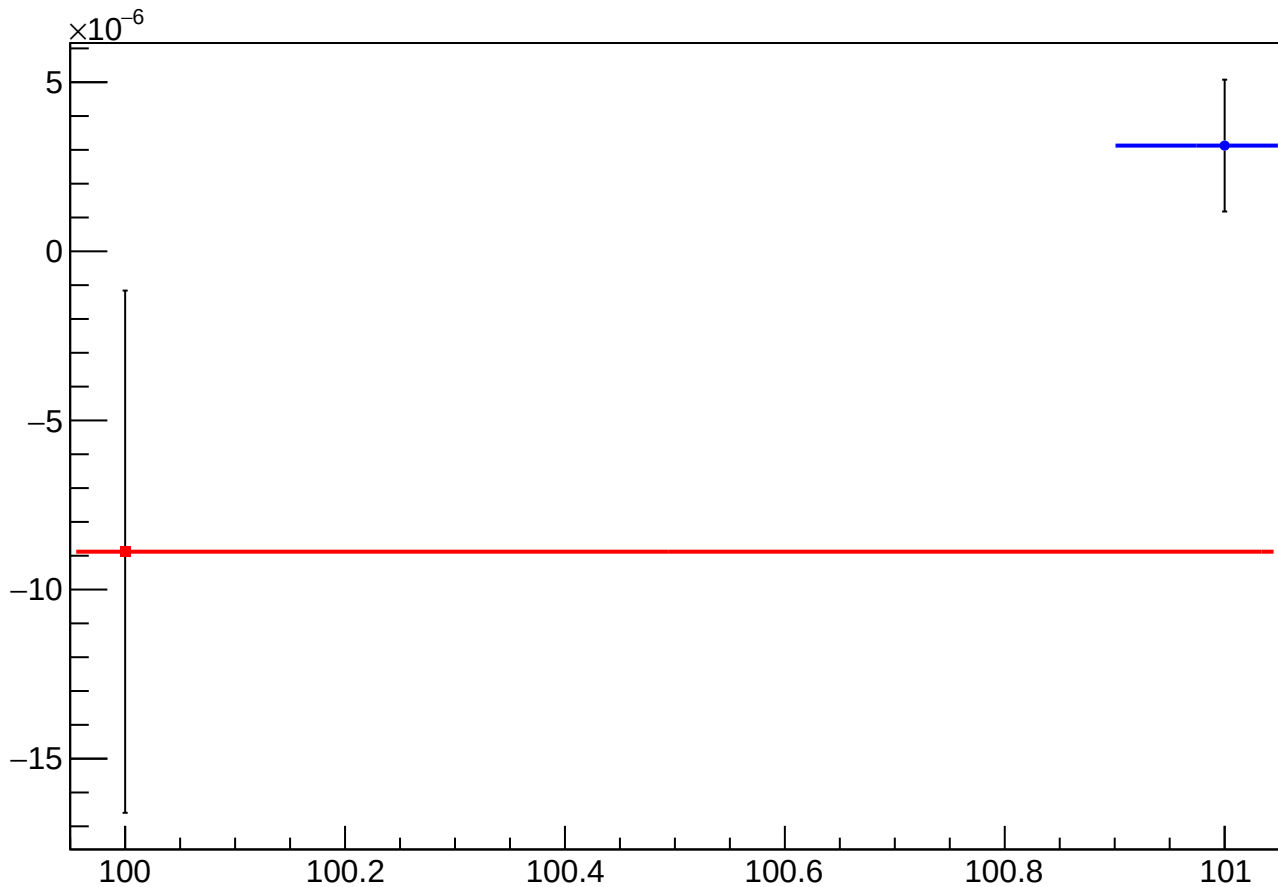
Right: 27.438 $\pm$ 0.024  $\chi^2$ /NDF: 81533.2/1

In: 26.865 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.438 $\pm$ 0.024  $\chi^2$ /NDF: 81533.2/1

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

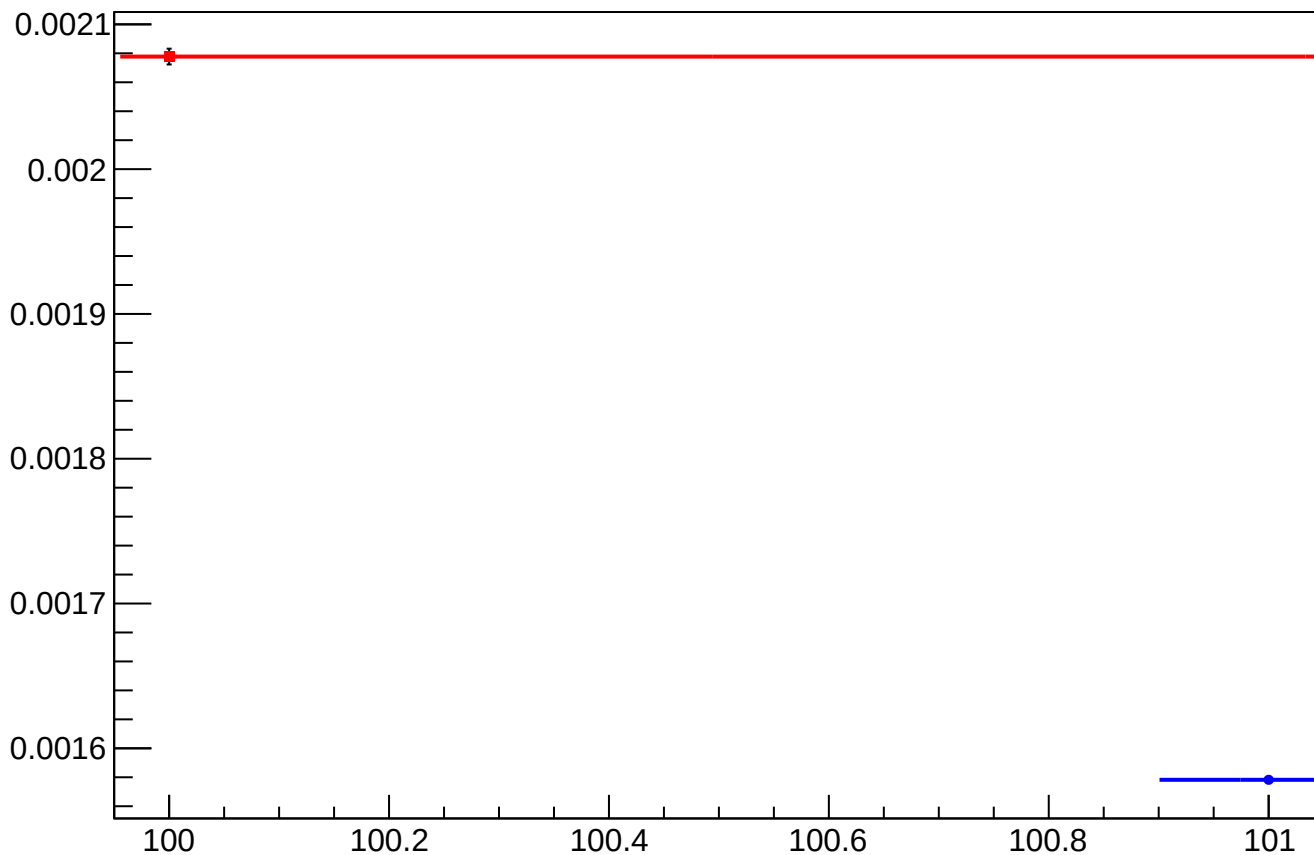
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2.3/1

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

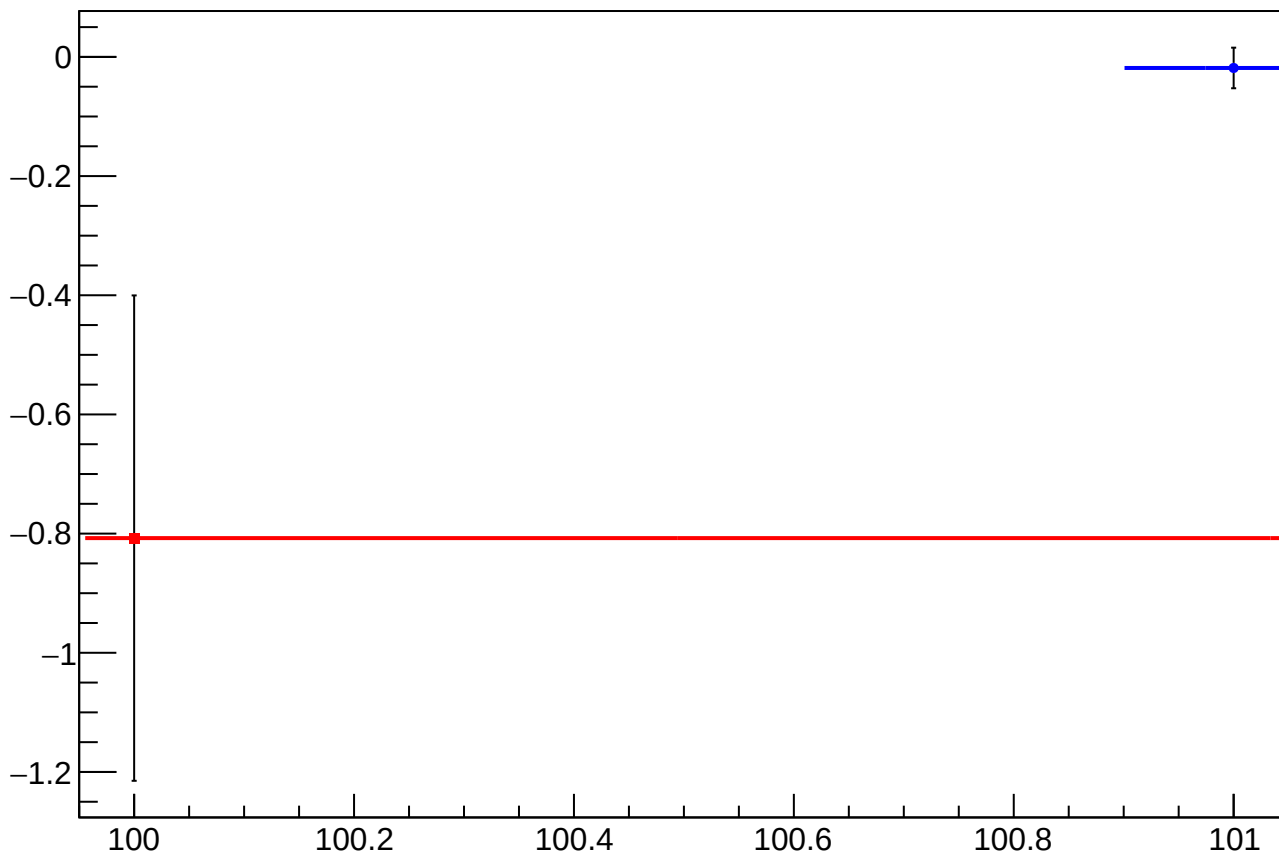
Right: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 7871.1/1

In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 7871.1/1

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In:  $-0.019 \pm 0.034$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.808 \pm 0.407$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

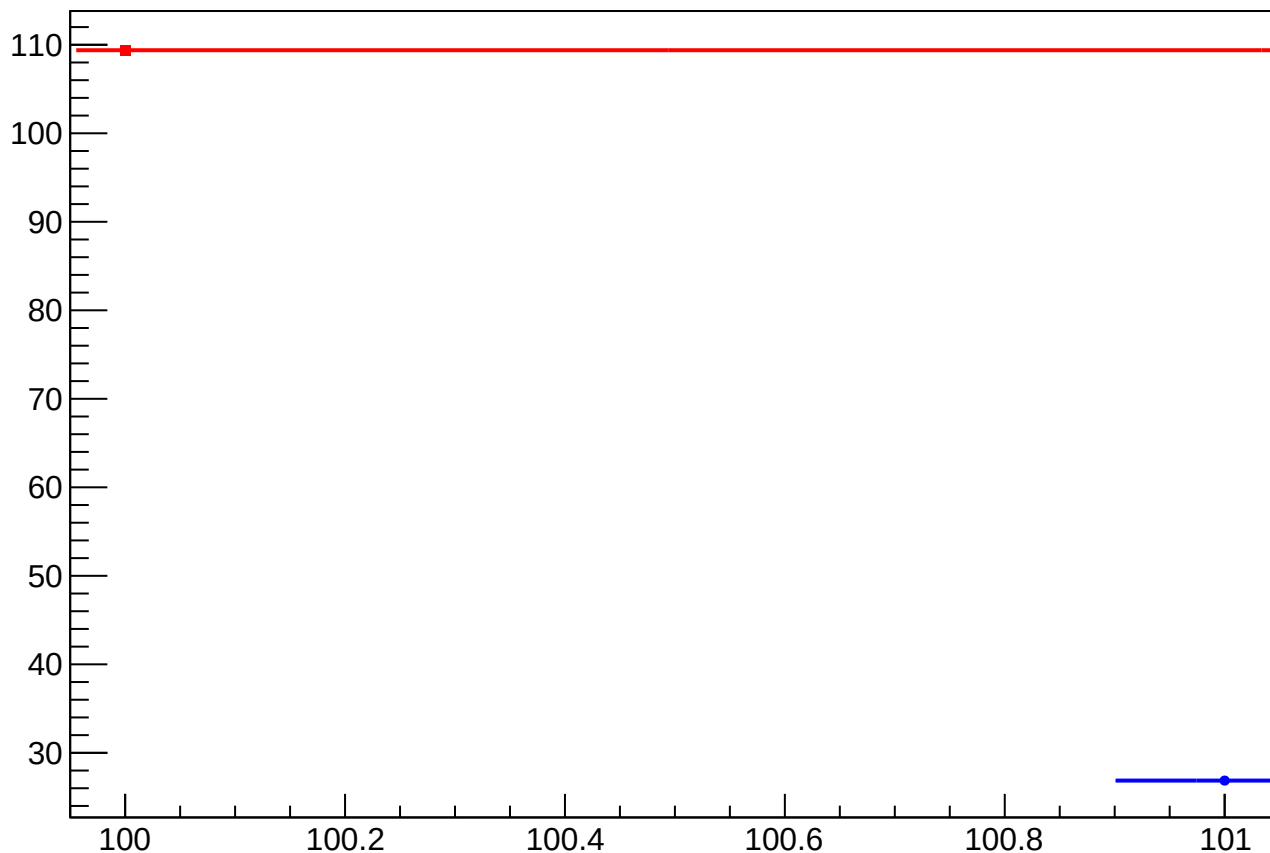
Right:  $-0.024 \pm 0.034$   $\chi^2/\text{NDF}$ : 3.7/1

In:  $-0.019 \pm 0.034$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.024 \pm 0.034$   $\chi^2/\text{NDF}$ : 3.7/1

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 26.865+/-0.024  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 109.386+/-0.288  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

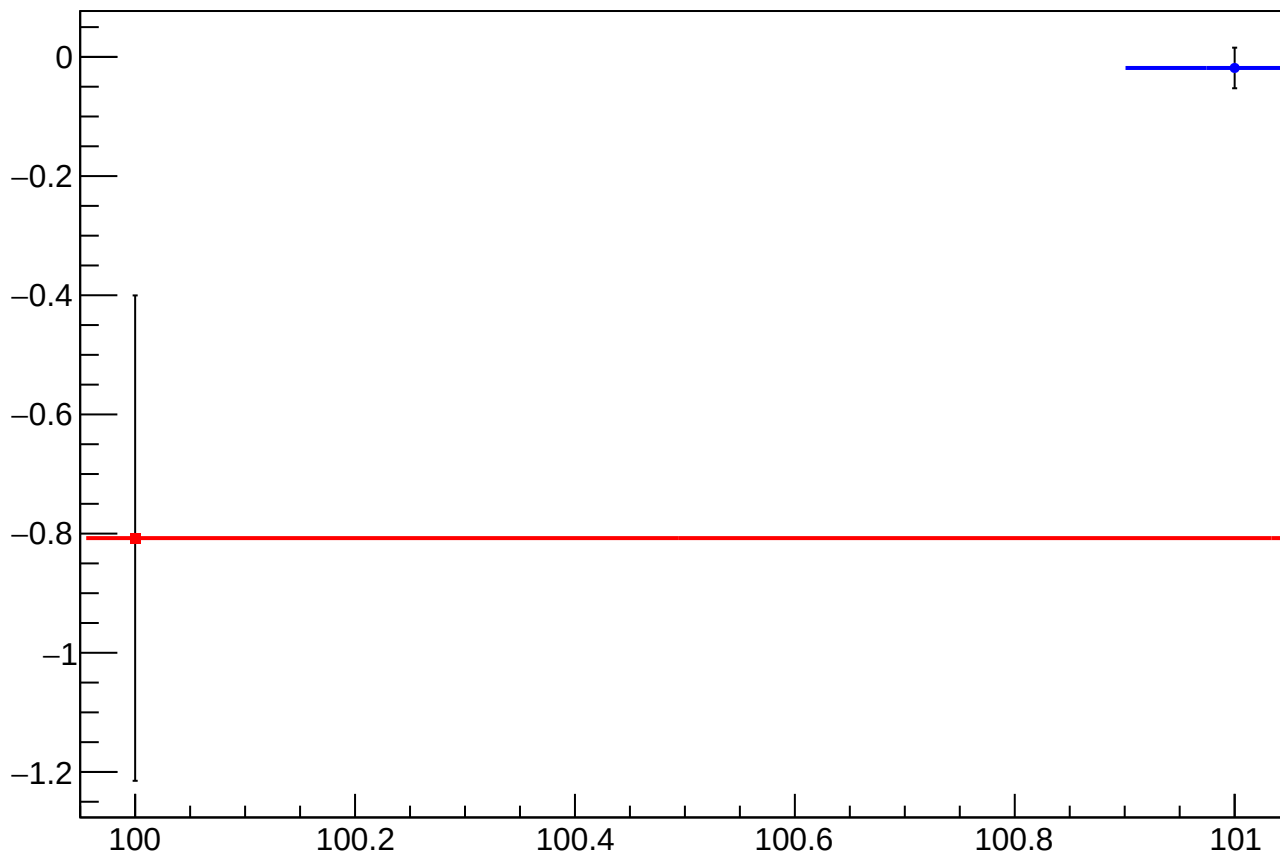
Right: 27.438+/-0.024  $\chi^2/\text{NDF}$ : 81532.9/1

In: 26.865+/-0.024  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.438+/-0.024  $\chi^2/\text{NDF}$ : 81532.9/1

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: -0.019 $\pm$ 0.034  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.808 $\pm$ 0.407  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

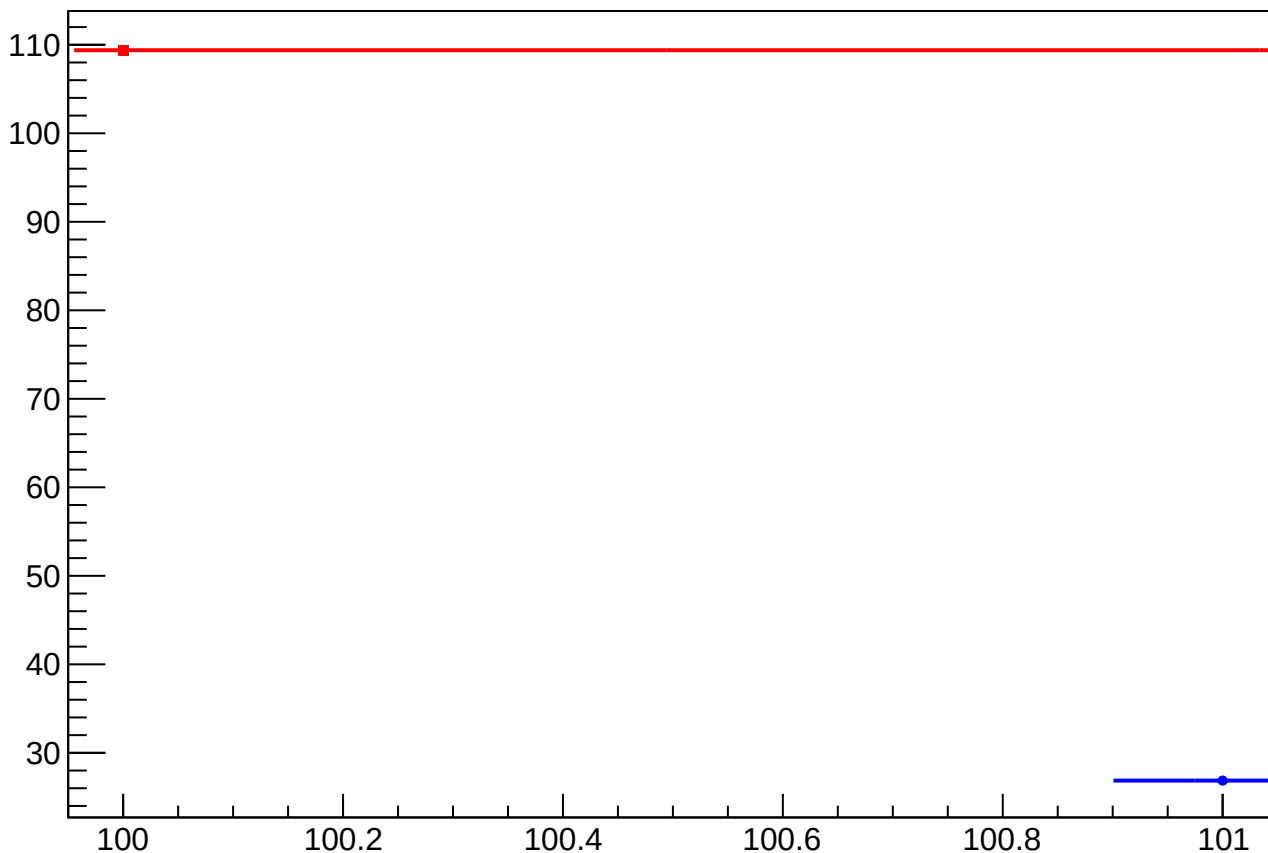
Right: -0.024 $\pm$ 0.034  $\chi^2$ /NDF: 3.7/1

In: -0.019 $\pm$ 0.034  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.024 $\pm$ 0.034  $\chi^2$ /NDF: 3.7/1

asym\_sam\_1357\_2468\_dd\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 26.865 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 109.386 $\pm$ 0.288  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 27.438 $\pm$ 0.024  $\chi^2$ /NDF: 81532.9/1

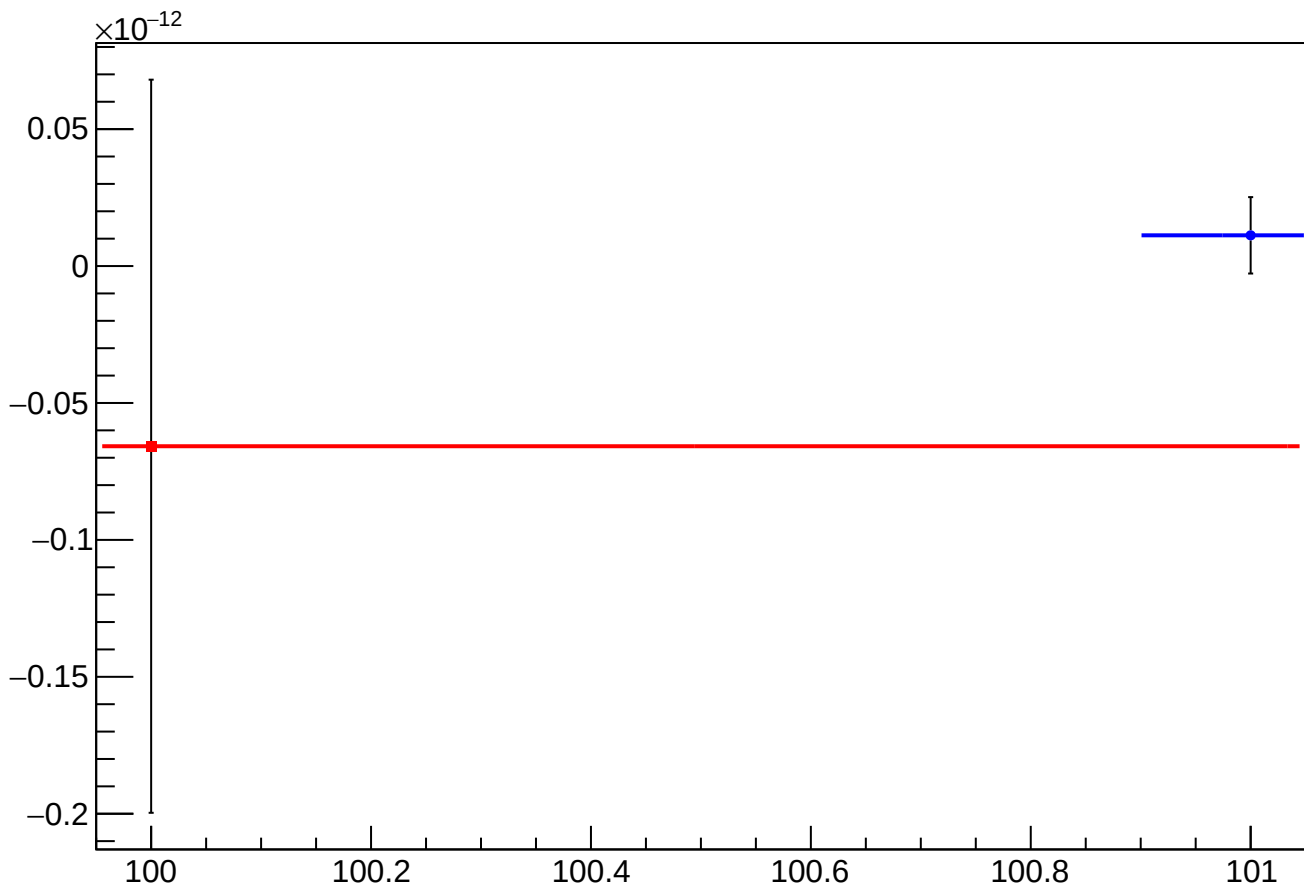
In: 26.865 $\pm$ 0.024  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.438 $\pm$ 0.024  $\chi^2$ /NDF: 81532.9/1



asym\_sam\_1357\_2468\_dd\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

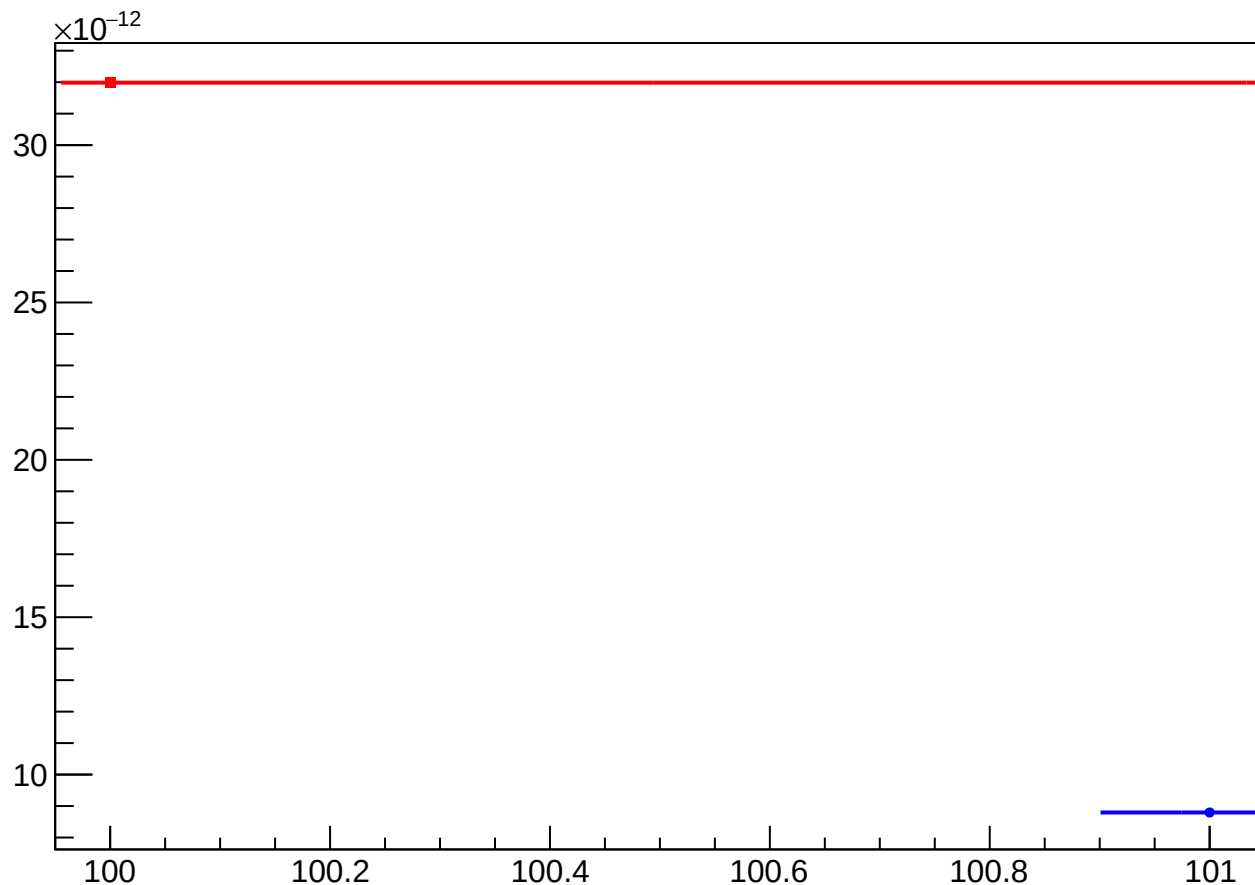
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.3/1

asym\_sam\_1357\_2468\_dd\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

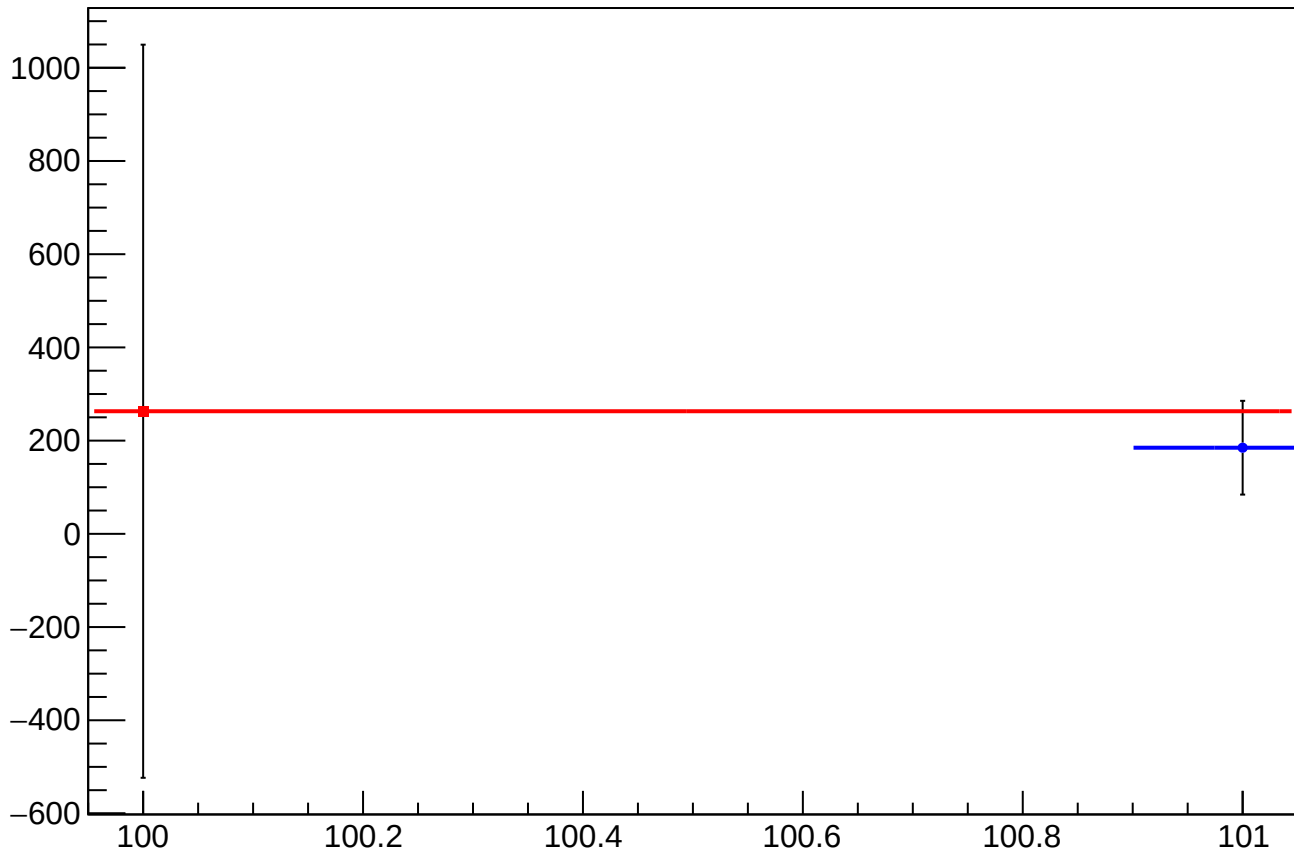
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59379.8/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 59379.8/1

reg\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 184.795 $\pm$ 100.577  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 263.071 $\pm$ 786.507  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

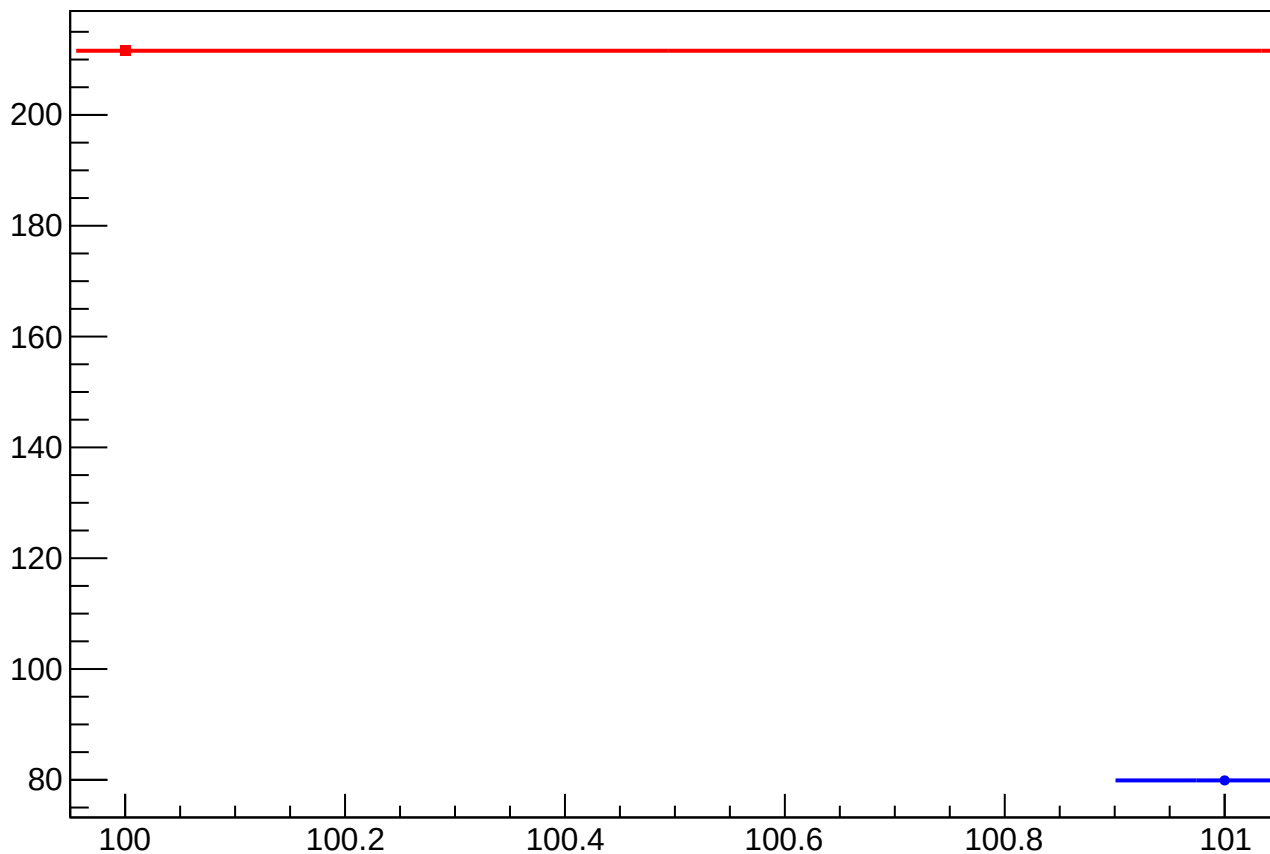
Right: 186.055 $\pm$ 99.764  $\chi^2$ /NDF: 0.0/1

In: 184.795 $\pm$ 100.577  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 186.055 $\pm$ 99.764  $\chi^2$ /NDF: 0.0/1

reg\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 79.899 $\pm$ 0.071  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 211.584 $\pm$ 0.556  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

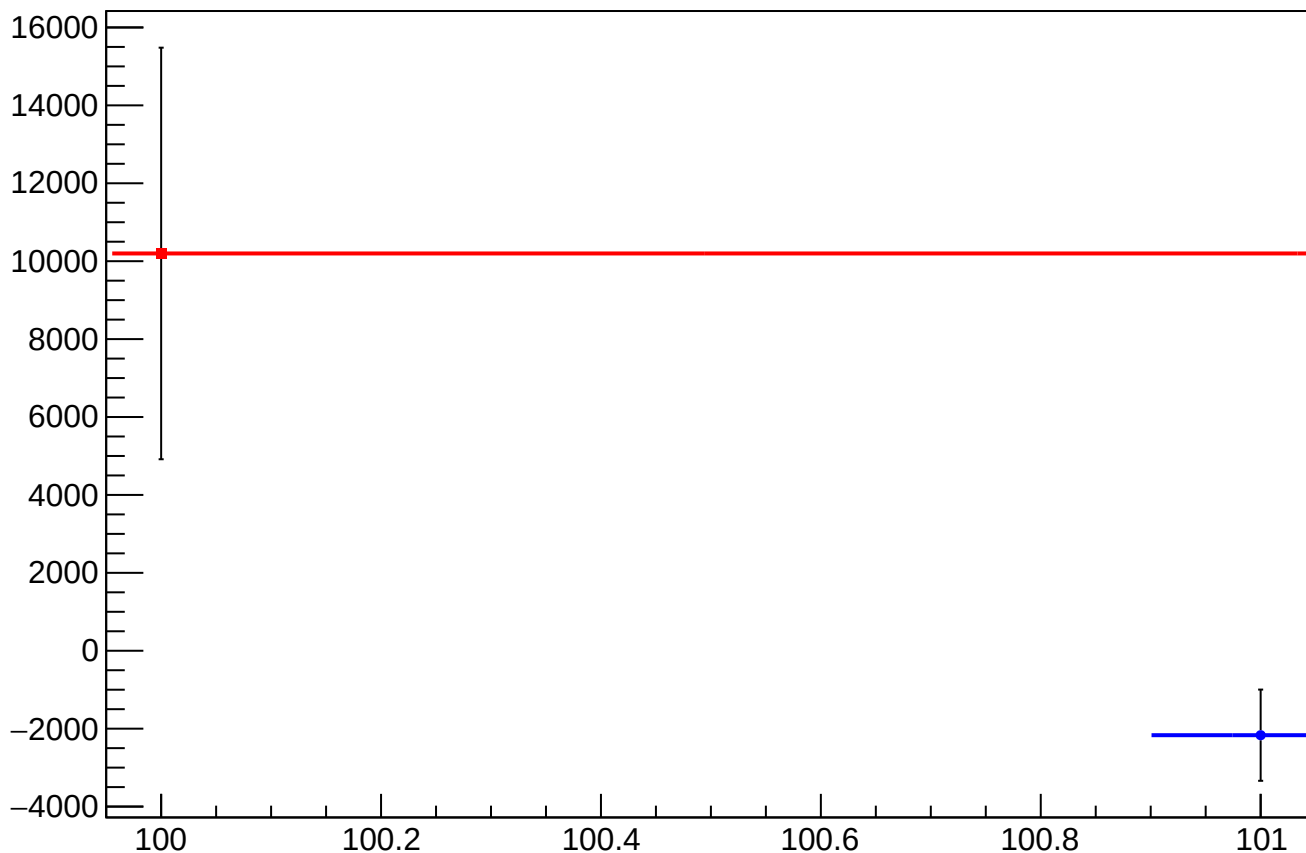
Right: 82.017 $\pm$ 0.071  $\chi^2$ /NDF: 55164.3/1

In: 79.899 $\pm$ 0.071  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 82.017 $\pm$ 0.071  $\chi^2$ /NDF: 55164.3/1

asym\_sam\_12345678\_avg\_reg\_correction\_mean vs Slug, Sign Corrected



Right In: -2167.491+/-1170.751  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10198.419+/-5282.561  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

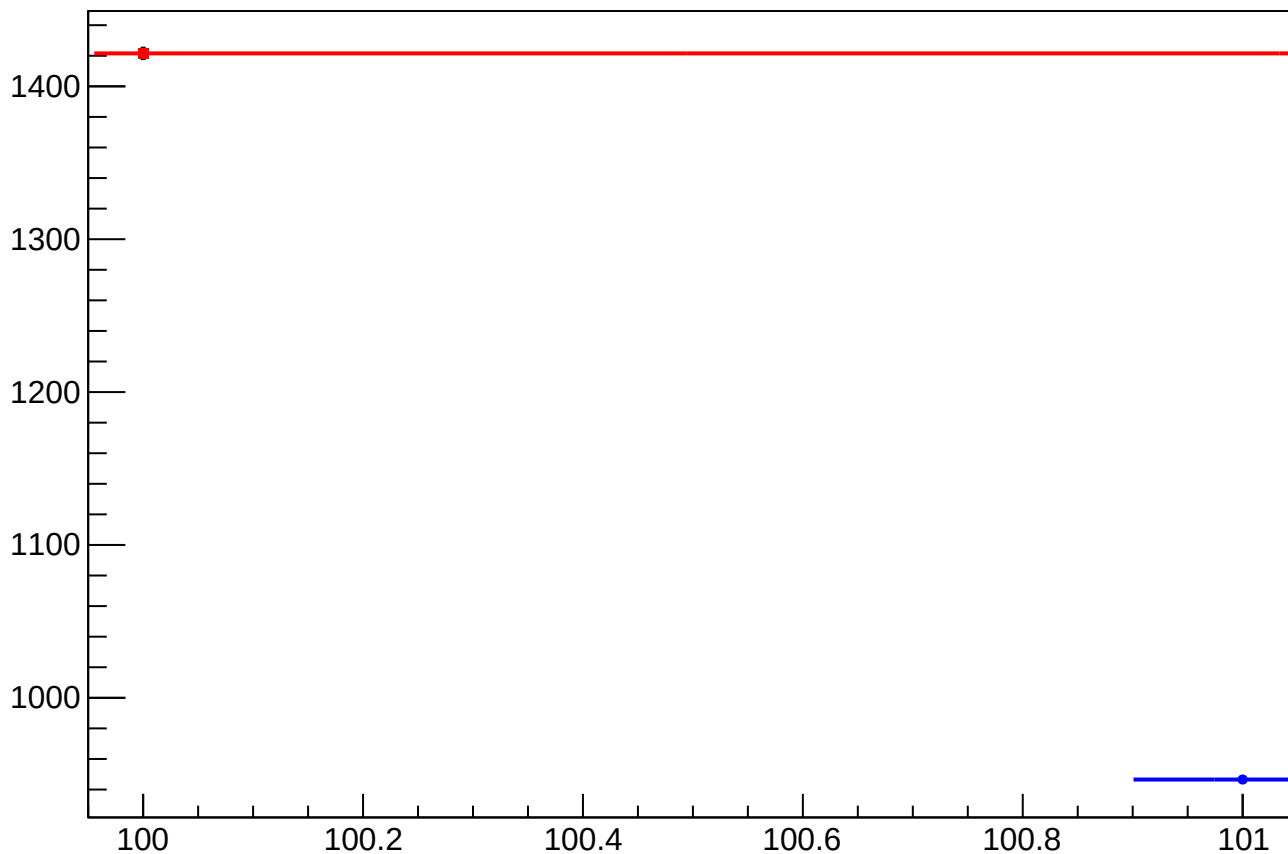
Right: -1588.540+/-1143.016  $\chi^2/\text{NDF}$ : 5.2/1

In: -2167.491+/-1170.751  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1588.540+/-1143.016  $\chi^2/\text{NDF}$ : 5.2/1

asym\_sam\_12345678\_avg\_reg\_correction\_rms vs Slug, Sign Corrected



Right In: 946.549 $\pm$ 0.828  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1421.560 $\pm$ 3.735  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

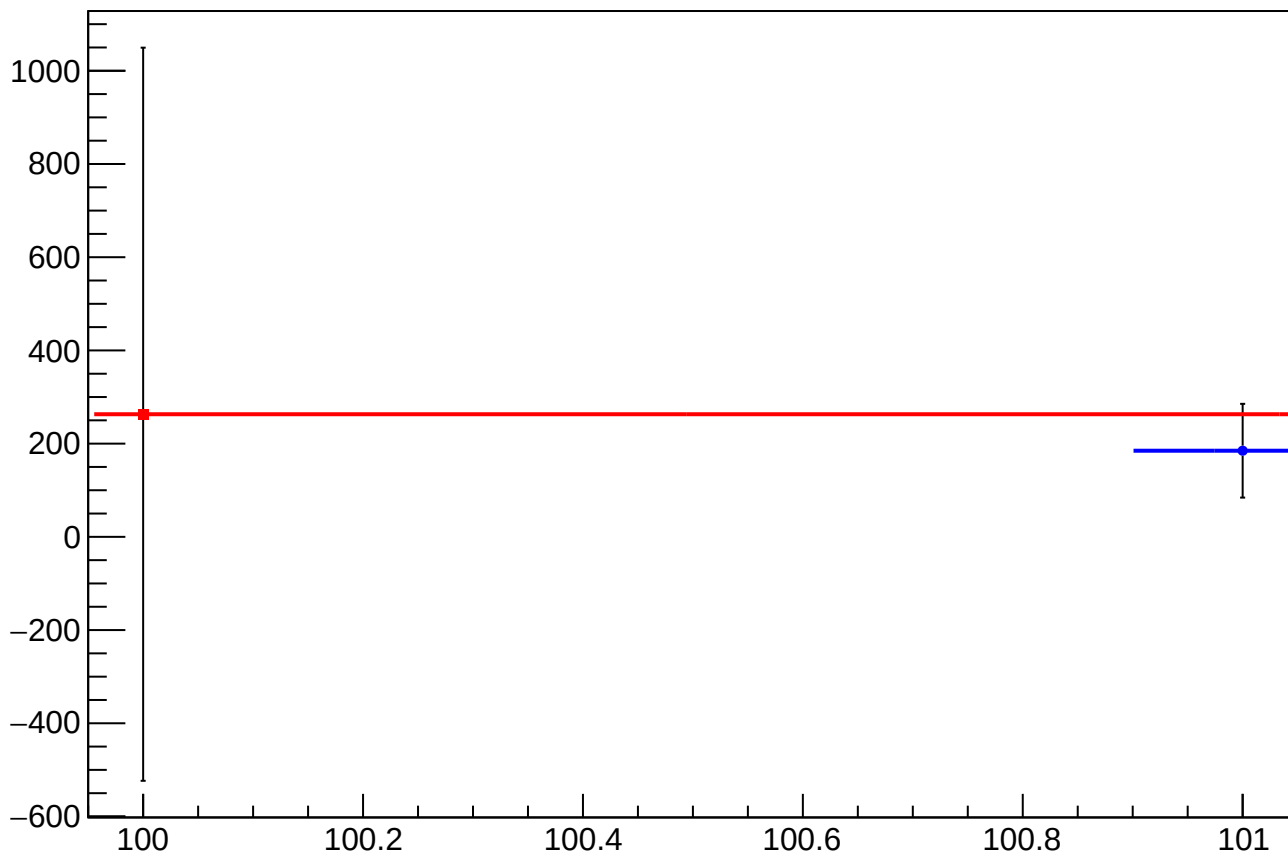
Right: 968.788 $\pm$ 0.808  $\chi^2$ /NDF: 15414.3/1

In: 946.549 $\pm$ 0.828  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 968.788 $\pm$ 0.808  $\chi^2$ /NDF: 15414.3/1

cor\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 184.790 $\pm$ 100.577  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 263.082 $\pm$ 786.507  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

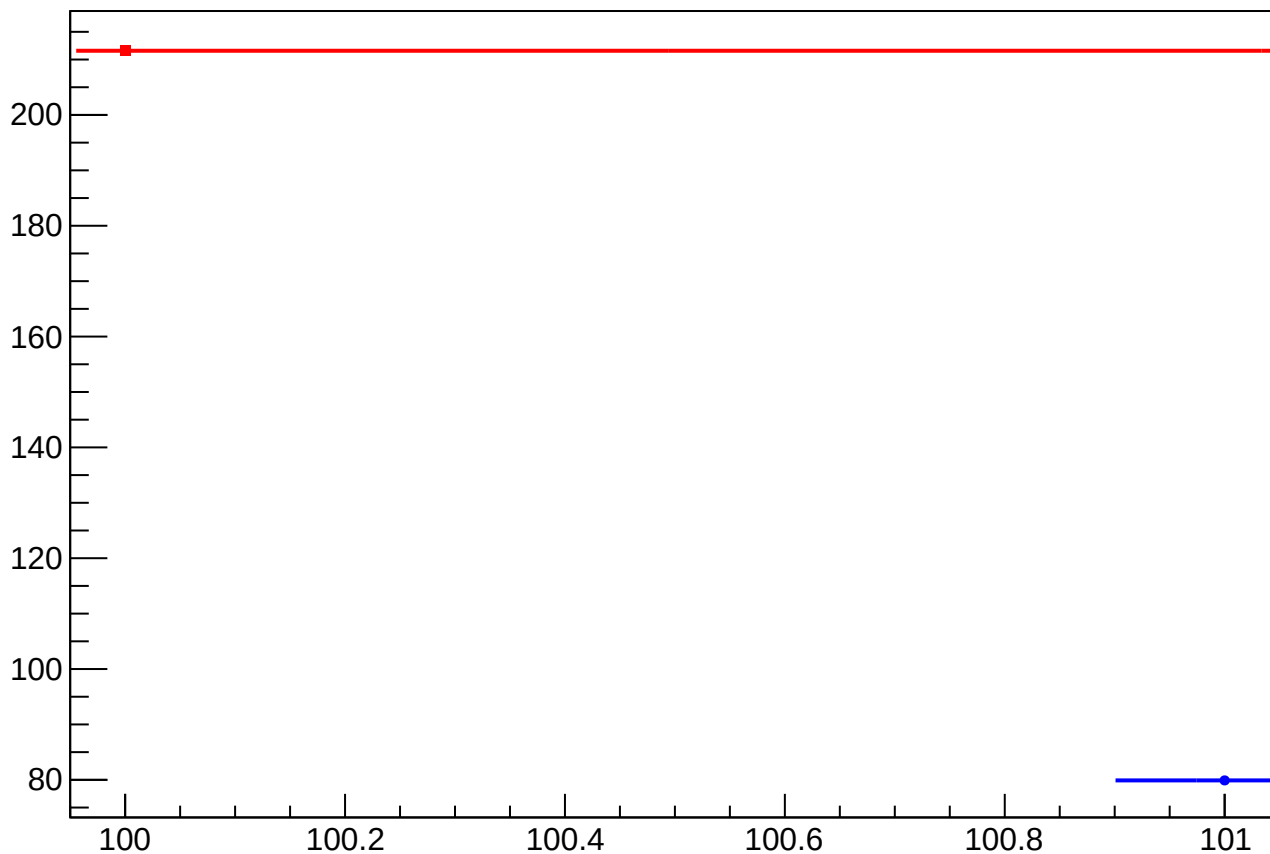
Right: 186.050 $\pm$ 99.764  $\chi^2$ /NDF: 0.0/1

In: 184.790 $\pm$ 100.577  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 186.050 $\pm$ 99.764  $\chi^2$ /NDF: 0.0/1

cor\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 79.899+/-0.071  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 211.584+/-0.556  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 82.017+/-0.071  $\chi^2$ /NDF: 55164.3/1

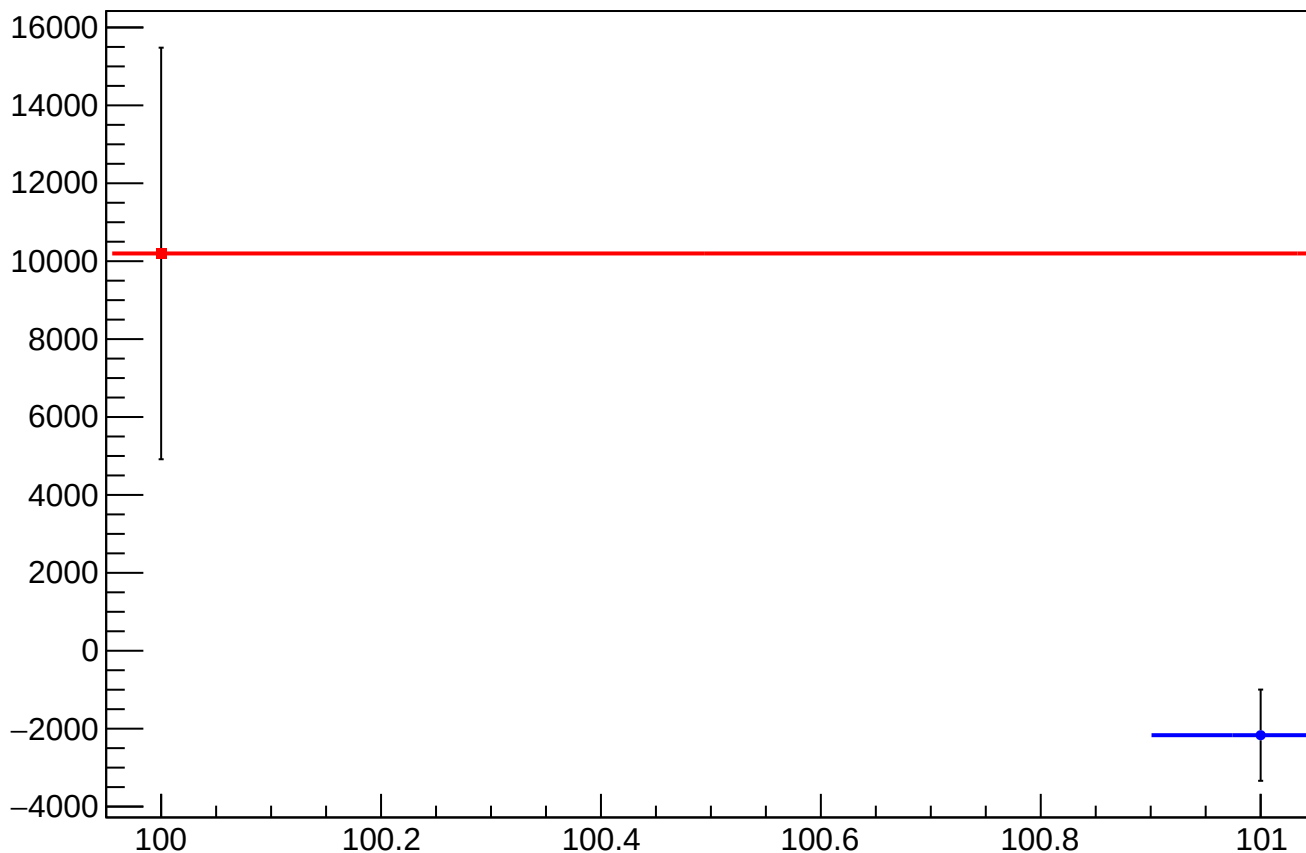
In: 79.899+/-0.071  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 82.017+/-0.071  $\chi^2$ /NDF: 55164.3/1



asym\_sam\_12345678\_avg\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2167.481+/-1170.752  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10198.421+/-5282.564  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

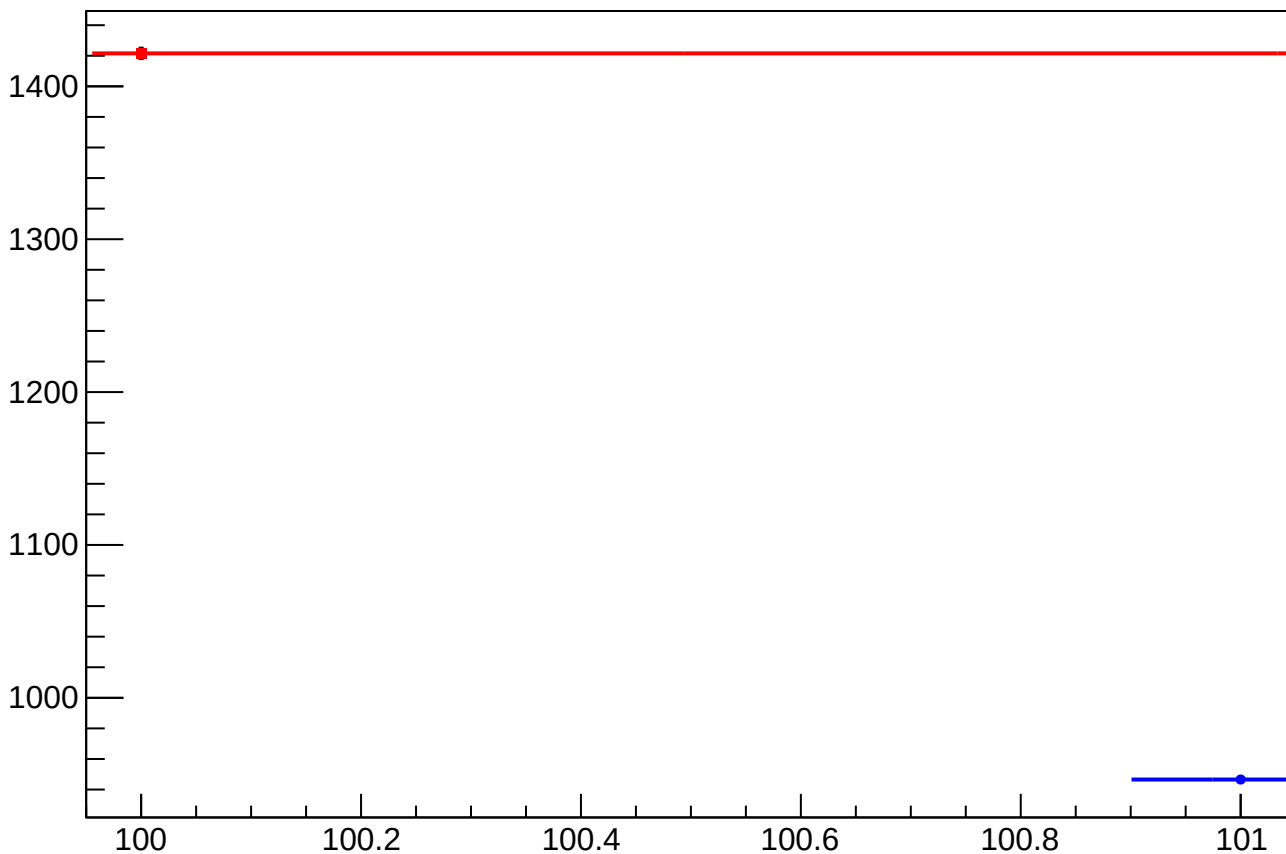
Right: -1588.530+/-1143.017  $\chi^2/\text{NDF}$ : 5.2/1

In: -2167.481+/-1170.752  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1588.530+/-1143.017  $\chi^2/\text{NDF}$ : 5.2/1

asym\_sam\_12345678\_avg\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 946.550 $\pm$ 0.828  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1421.561 $\pm$ 3.735  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

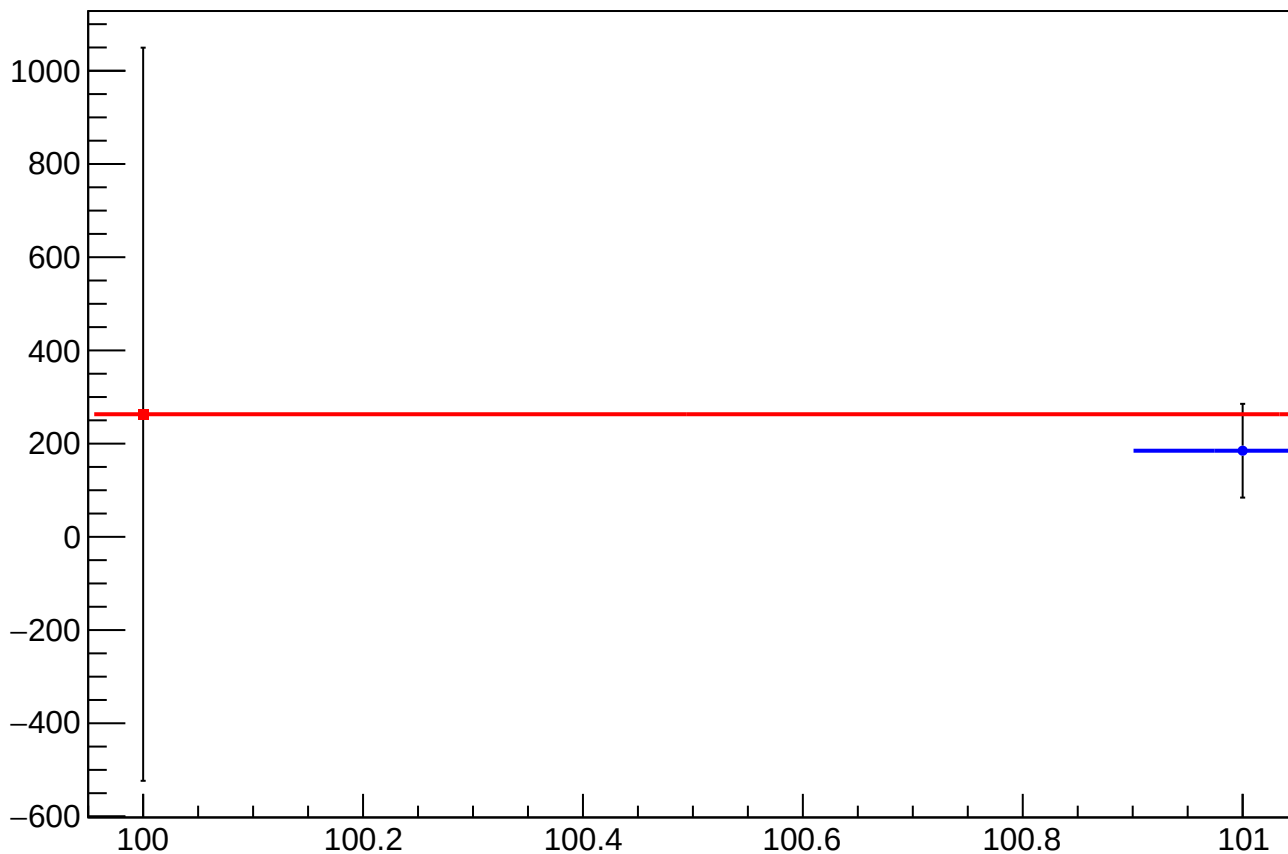
Right: 968.790 $\pm$ 0.808  $\chi^2$ /NDF: 15414.2/1

In: 946.550 $\pm$ 0.828  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 968.790 $\pm$ 0.808  $\chi^2$ /NDF: 15414.2/1

eigen\_cor\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 184.790+/-100.577  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 263.082+/-786.507  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

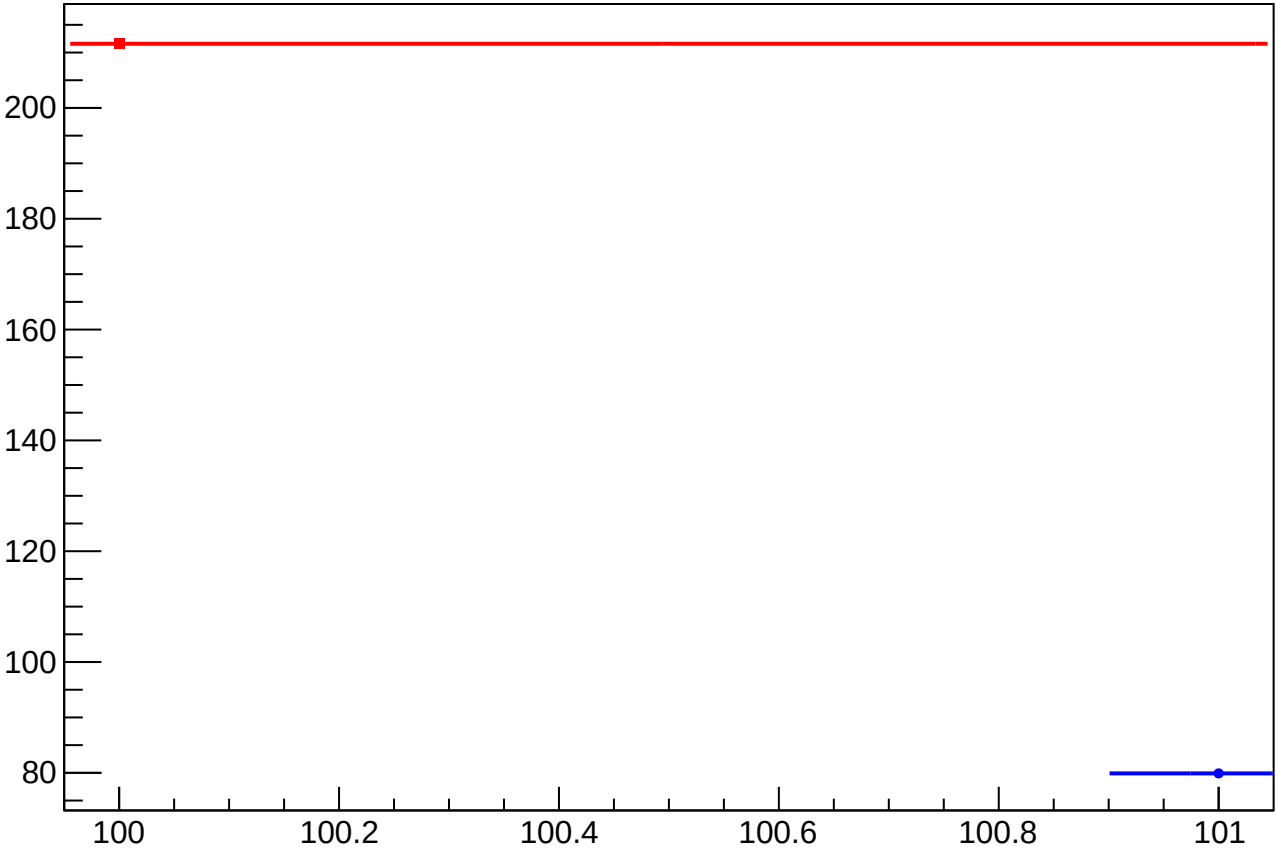
Right: 186.050+/-99.764  $\chi^2/\text{NDF}$ : 0.0/1

In: 184.790+/-100.577  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.050+/-99.764  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_cor\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 79.899+/-0.071  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 211.584+/-0.556  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

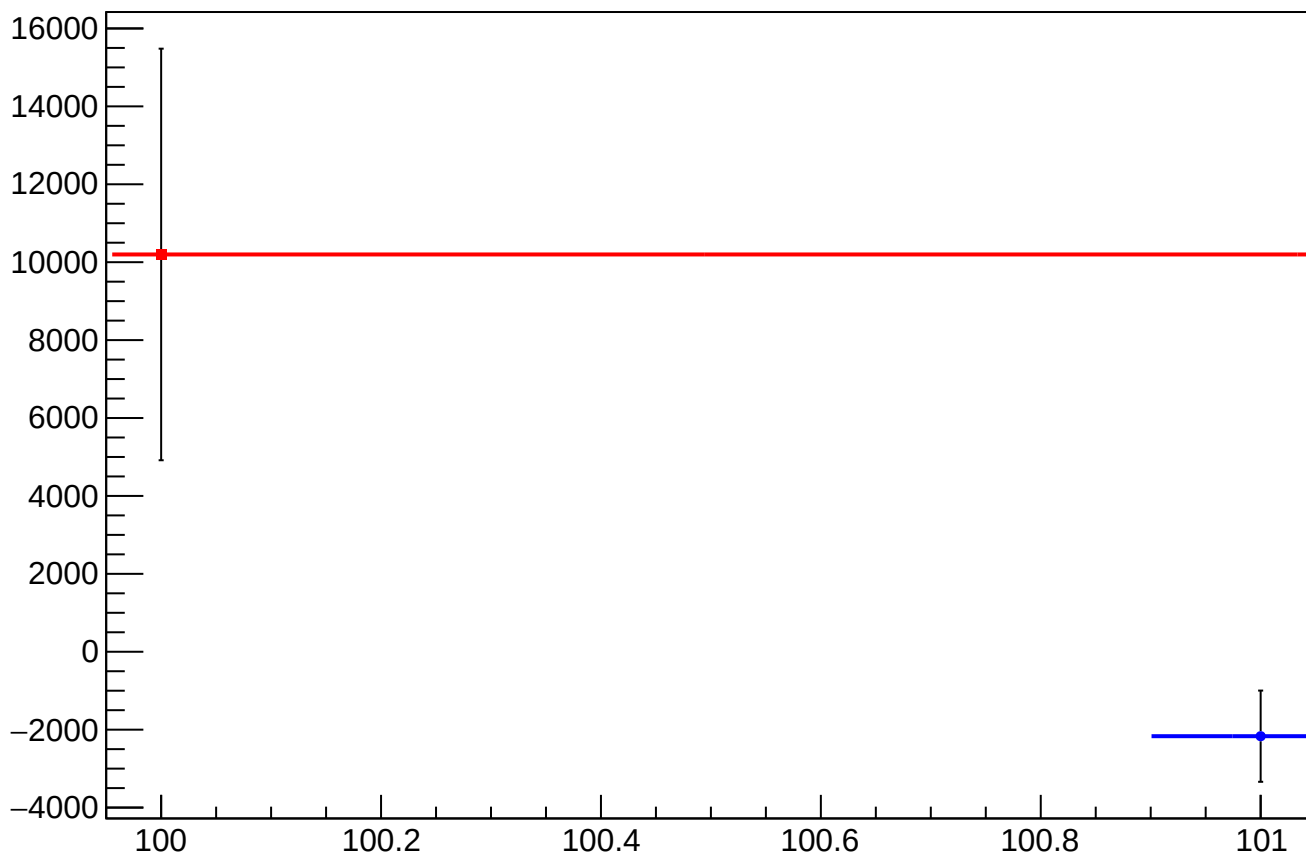
Right: 82.017+/-0.071  $\chi^2$ /NDF: 55164.3/1

In: 79.899+/-0.071  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 82.017+/-0.071  $\chi^2$ /NDF: 55164.3/1

asym\_sam\_12345678\_avg\_eigen\_cor\_correction\_mean vs Slug, Sign Corrected



Right In: -2167.481+/-1170.752  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10198.421+/-5282.564  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

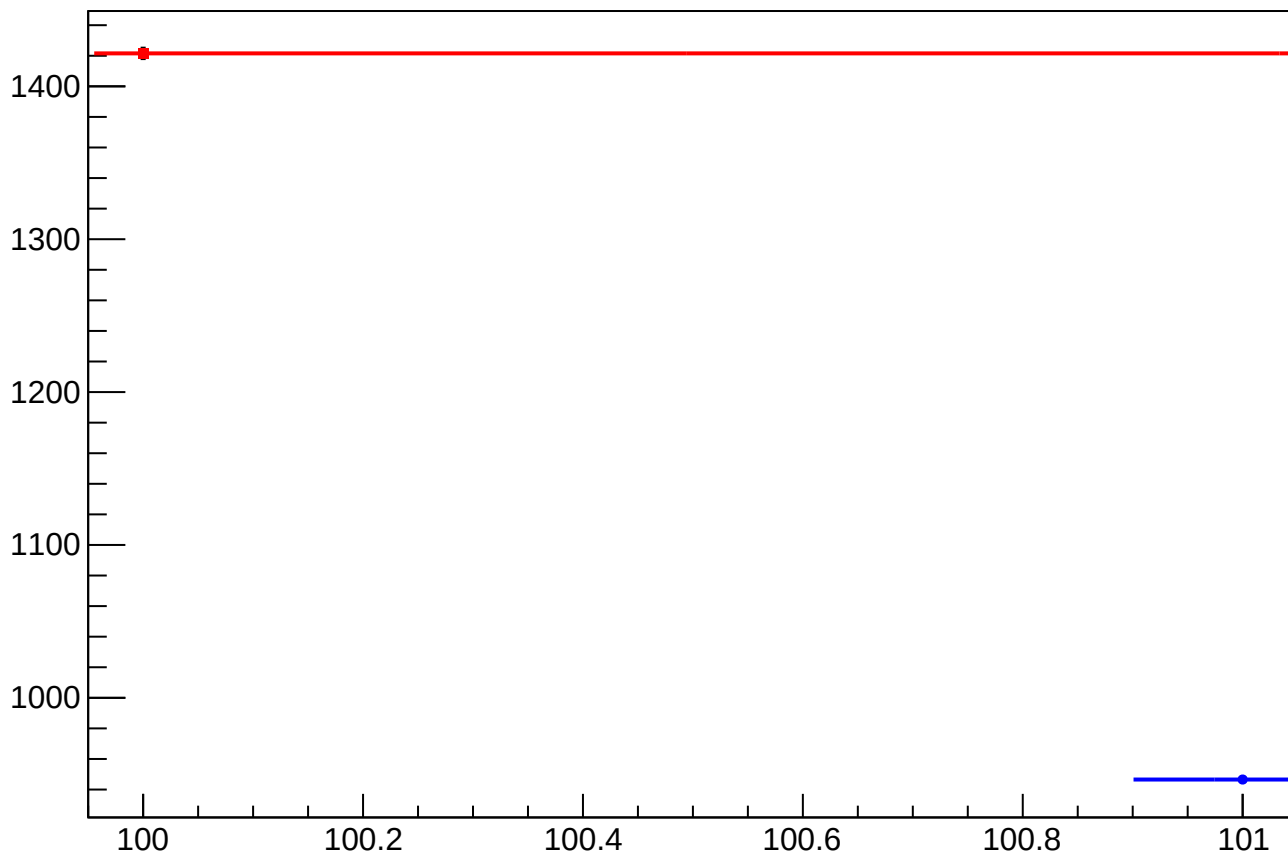
Right: -1588.530+/-1143.017  $\chi^2/\text{NDF}$ : 5.2/1

In: -2167.481+/-1170.752  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1588.530+/-1143.017  $\chi^2/\text{NDF}$ : 5.2/1

asym\_sam\_12345678\_avg\_eigen\_cor\_correction\_rms vs Slug, Sign Corrected



Right In: 946.550 $\pm$ 0.828  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1421.561 $\pm$ 3.735  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

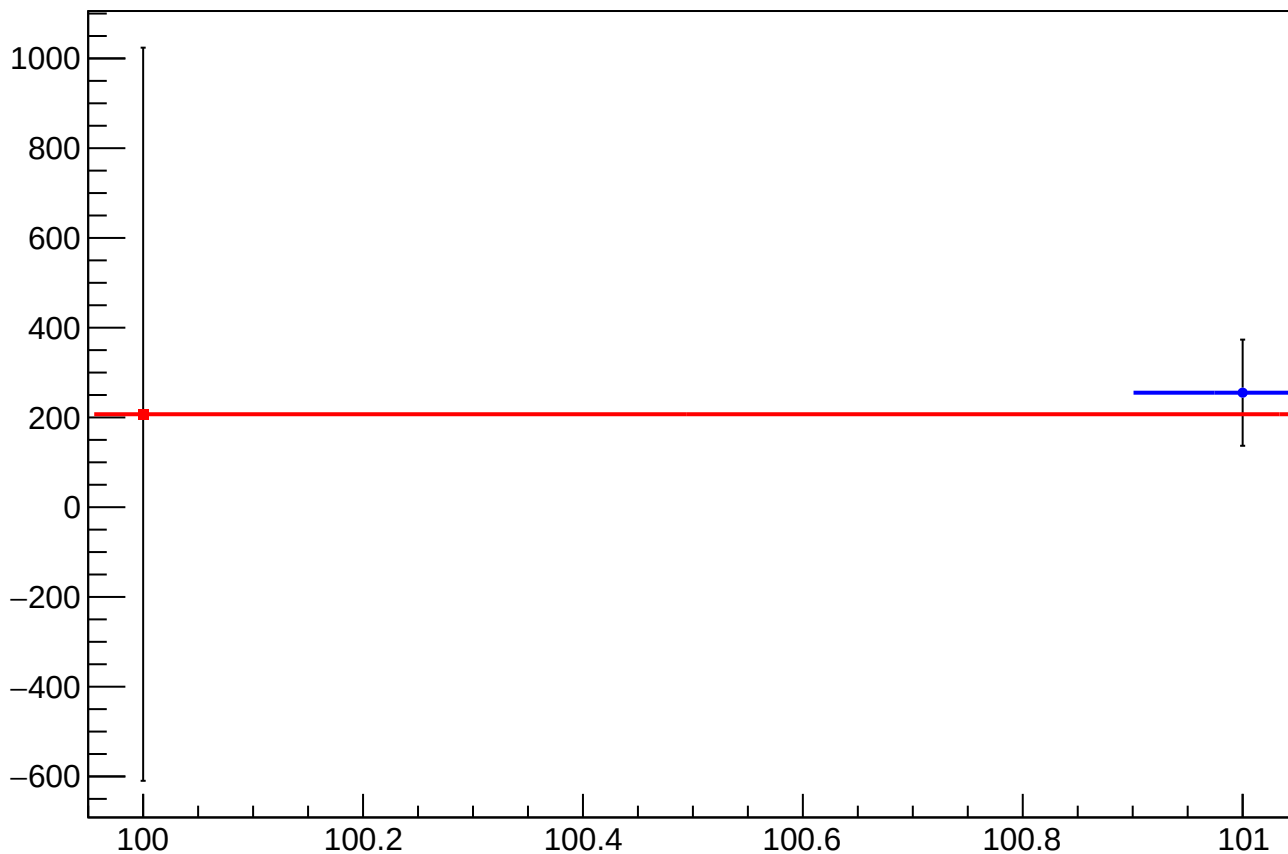
Right: 968.790 $\pm$ 0.808  $\chi^2$ /NDF: 15414.2/1

In: 946.550 $\pm$ 0.828  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 968.790 $\pm$ 0.808  $\chi^2$ /NDF: 15414.2/1

dit\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 255.133+/-118.275  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 207.147+/-816.840  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

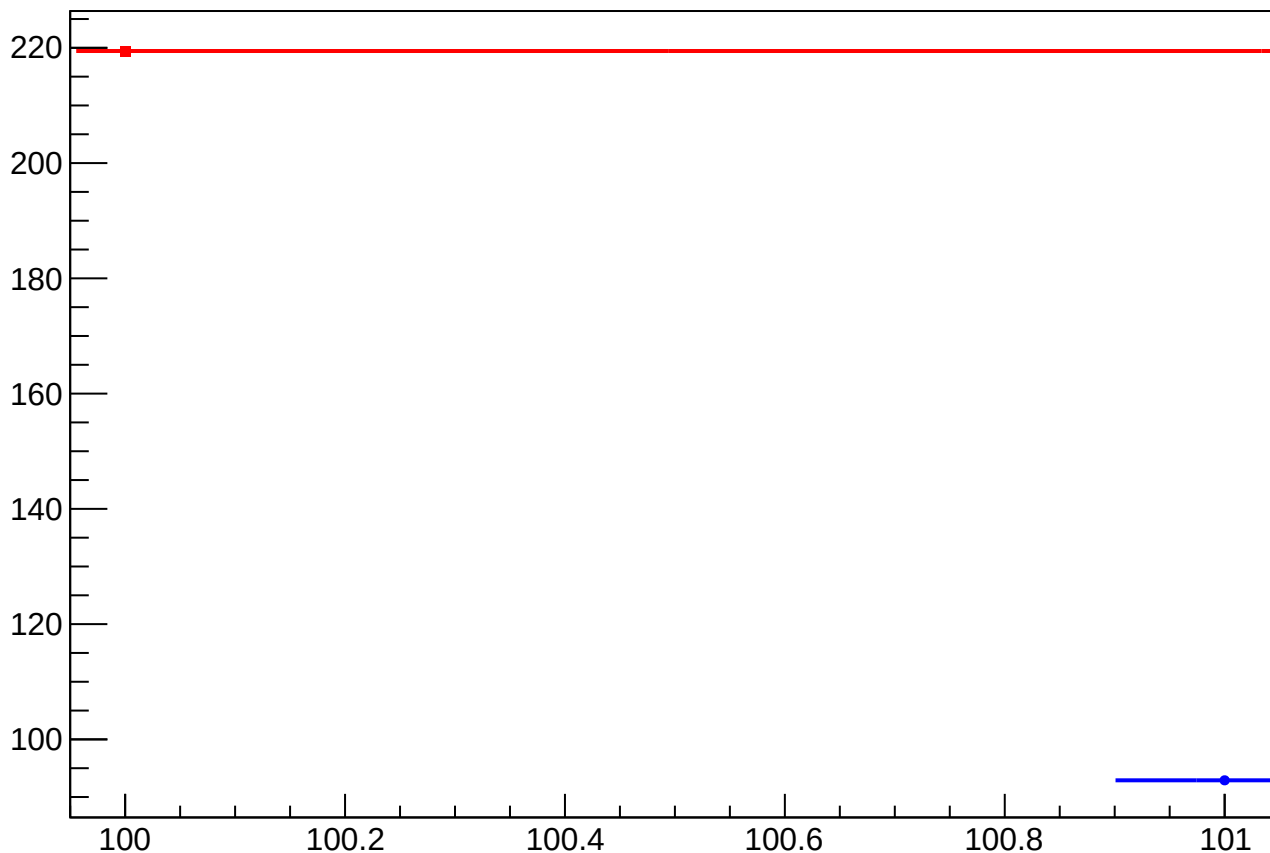
Right: 254.148+/-117.055  $\chi^2/\text{NDF}$ : 0.0/1

In: 255.133+/-118.275  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 254.148+/-117.055  $\chi^2/\text{NDF}$ : 0.0/1

dit\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 92.898 $\pm$ 0.084  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 219.450 $\pm$ 0.578  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 95.496 $\pm$ 0.083  $\chi^2$ /NDF: 47020.3/1

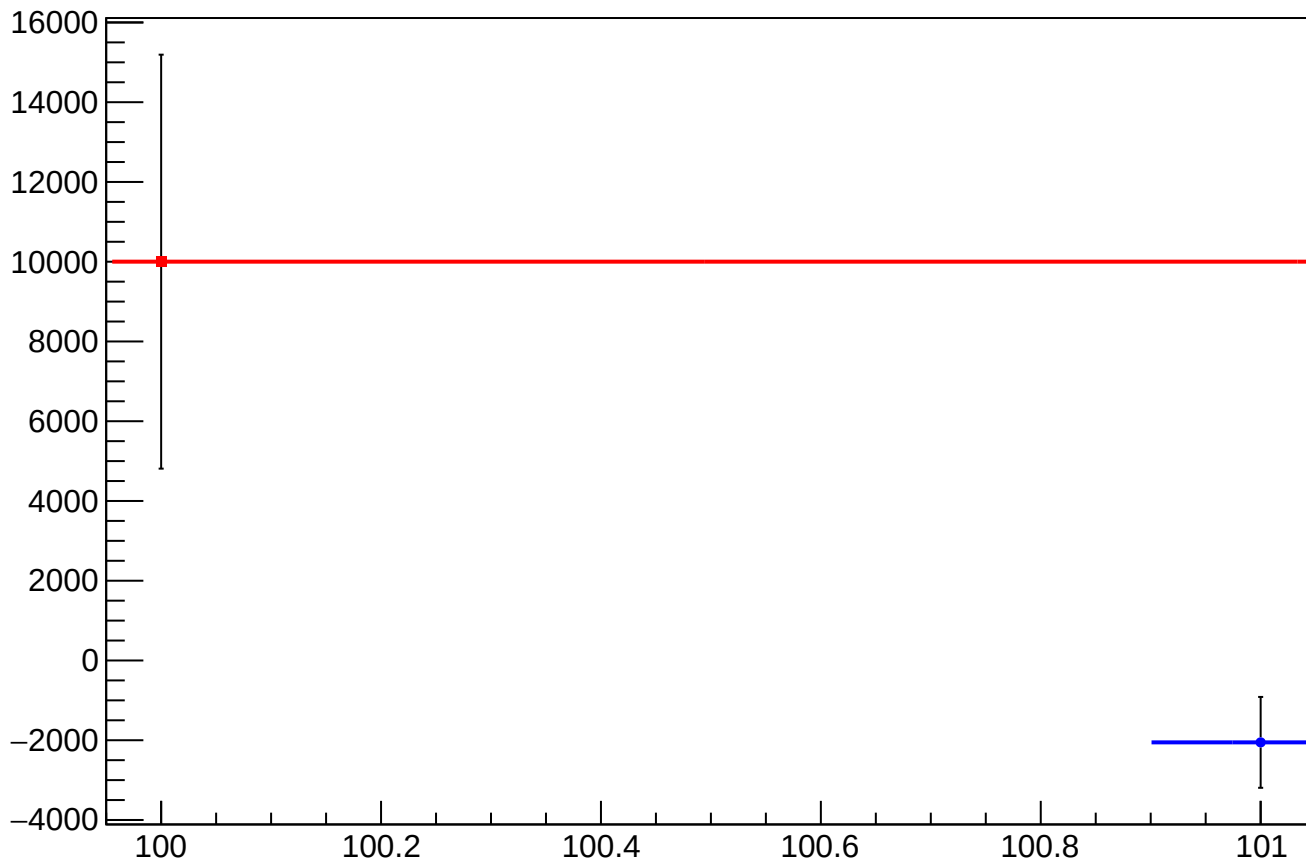
In: 92.898 $\pm$ 0.084  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.496 $\pm$ 0.083  $\chi^2$ /NDF: 47020.3/1



asym\_sam\_12345678\_avg\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2053.504 $\pm$ 1139.308  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 10001.333 $\pm$ 5190.672  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

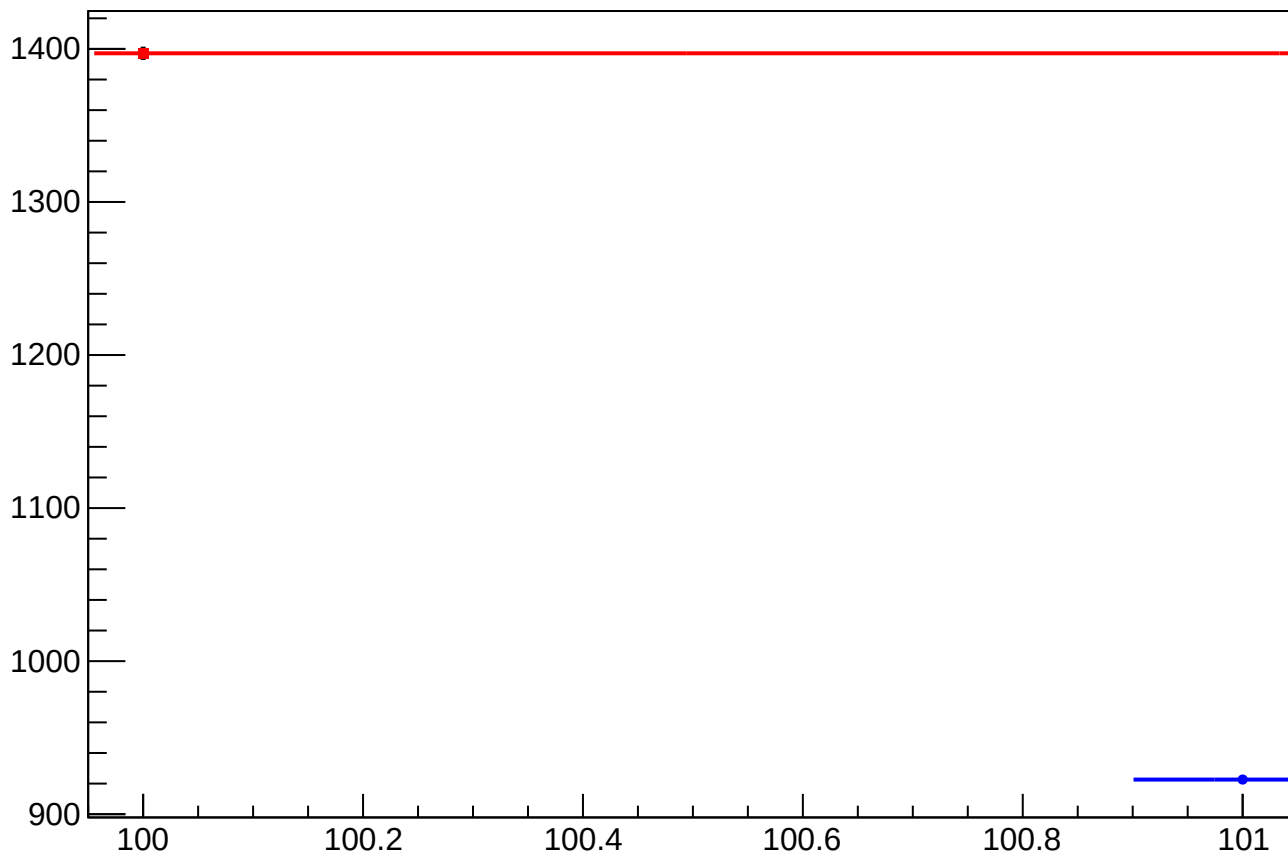
Right: -1499.438 $\pm$ 1112.817  $\chi^2$ /NDF: 5.1/1

In: -2053.504 $\pm$ 1139.308  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -1499.438 $\pm$ 1112.817  $\chi^2$ /NDF: 5.1/1

asym\_sam\_12345678\_avg\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 922.630 $\pm$ 0.806  $\chi^2/NDF$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Right Out: 1397.142 $\pm$ 3.670  $\chi^2/NDF$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

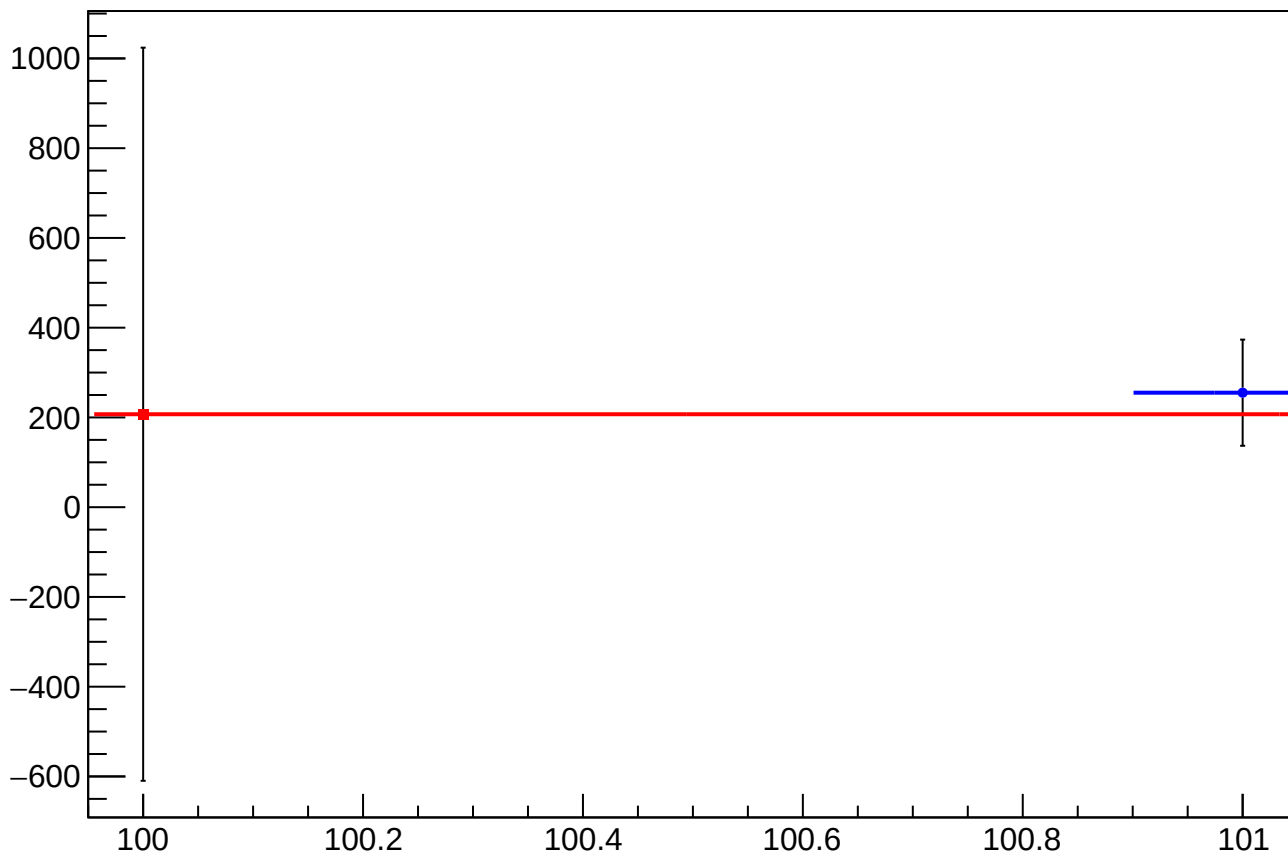
Right: 944.440 $\pm$ 0.787  $\chi^2/NDF$ : 15945.7/1

In: 922.630 $\pm$ 0.806  $\chi^2/NDF$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/NDF$ : 0.0/0

All: 944.440 $\pm$ 0.787  $\chi^2/NDF$ : 15945.7/1

eigen\_dit\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 255.135+/-118.276  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 207.137+/-816.841  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

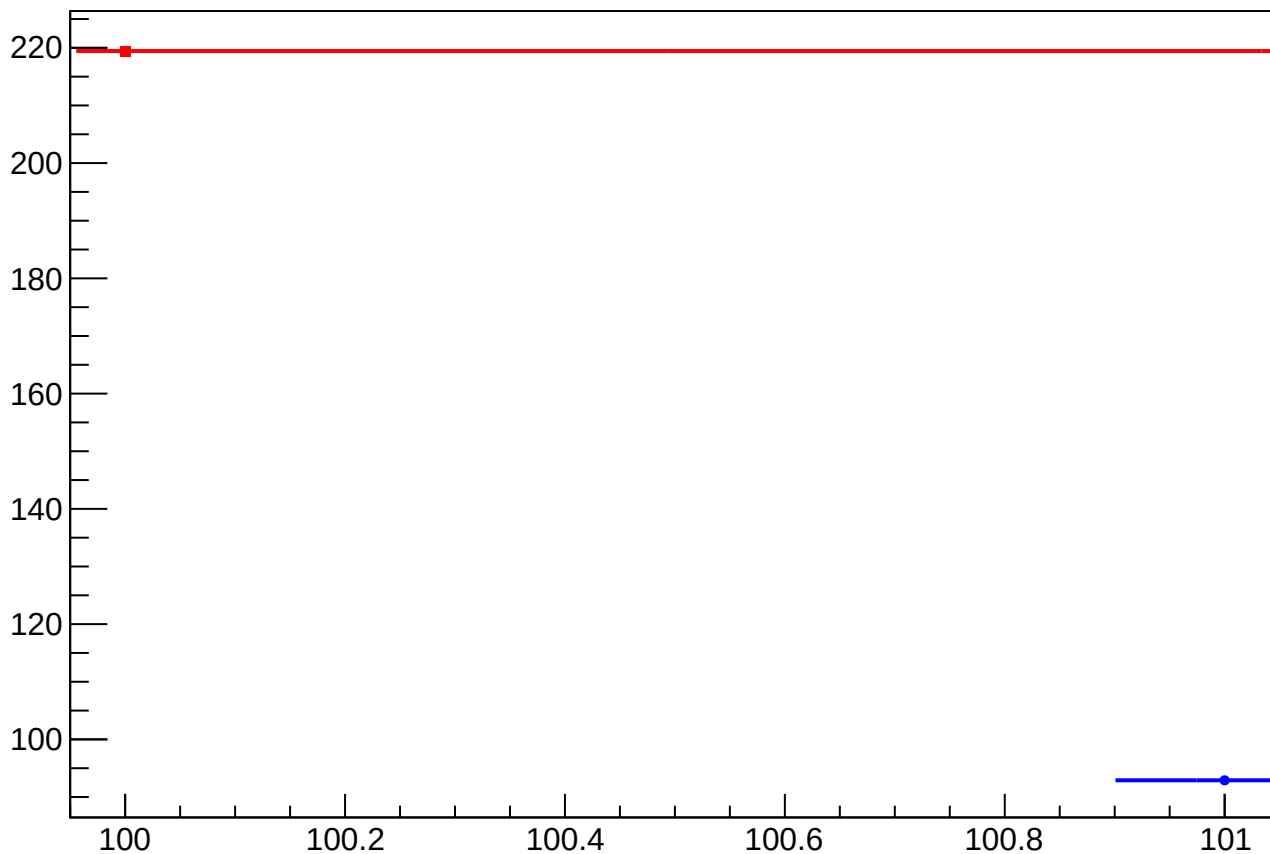
Right: 254.149+/-117.055  $\chi^2/\text{NDF}$ : 0.0/1

In: 255.135+/-118.276  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 254.149+/-117.055  $\chi^2/\text{NDF}$ : 0.0/1

eigen\_dit\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 92.898 $\pm$ 0.084  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 219.450 $\pm$ 0.578  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

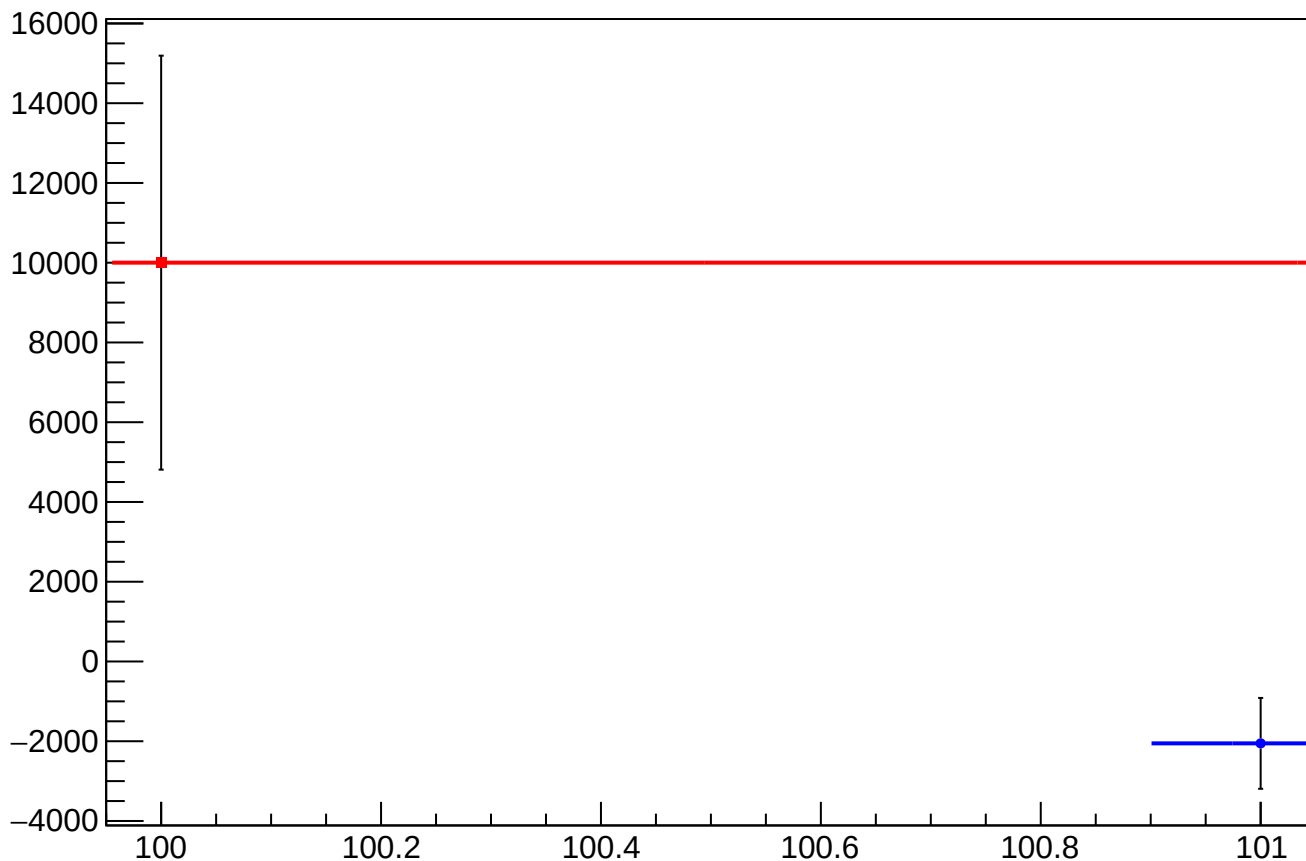
Right: 95.497 $\pm$ 0.083  $\chi^2$ /NDF: 47020.1/1

In: 92.898 $\pm$ 0.084  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.497 $\pm$ 0.083  $\chi^2$ /NDF: 47020.1/1

asym\_sam\_12345678\_avg\_eigen\_dit\_correction\_mean vs Slug, Sign Corrected



Right In: -2053.502 $\pm$ 1139.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 10001.321 $\pm$ 5190.665  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

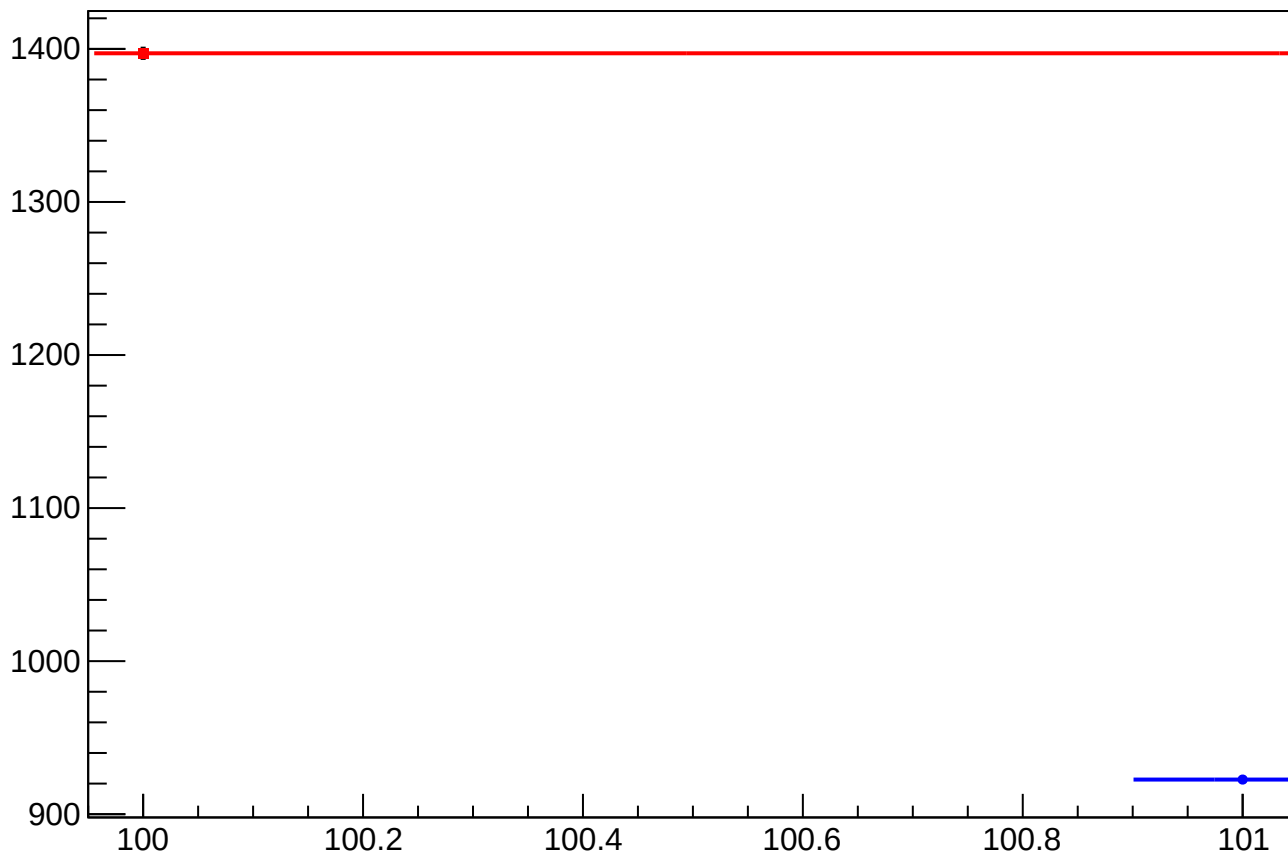
Right: -1499.437 $\pm$ 1112.815  $\chi^2$ /NDF: 5.1/1

In: -2053.502 $\pm$ 1139.306  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -1499.437 $\pm$ 1112.815  $\chi^2$ /NDF: 5.1/1

asym\_sam\_12345678\_avg\_eigen\_dit\_correction\_rms vs Slug, Sign Corrected



Right In: 922.628 $\pm$ 0.806  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1397.140 $\pm$ 3.670  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

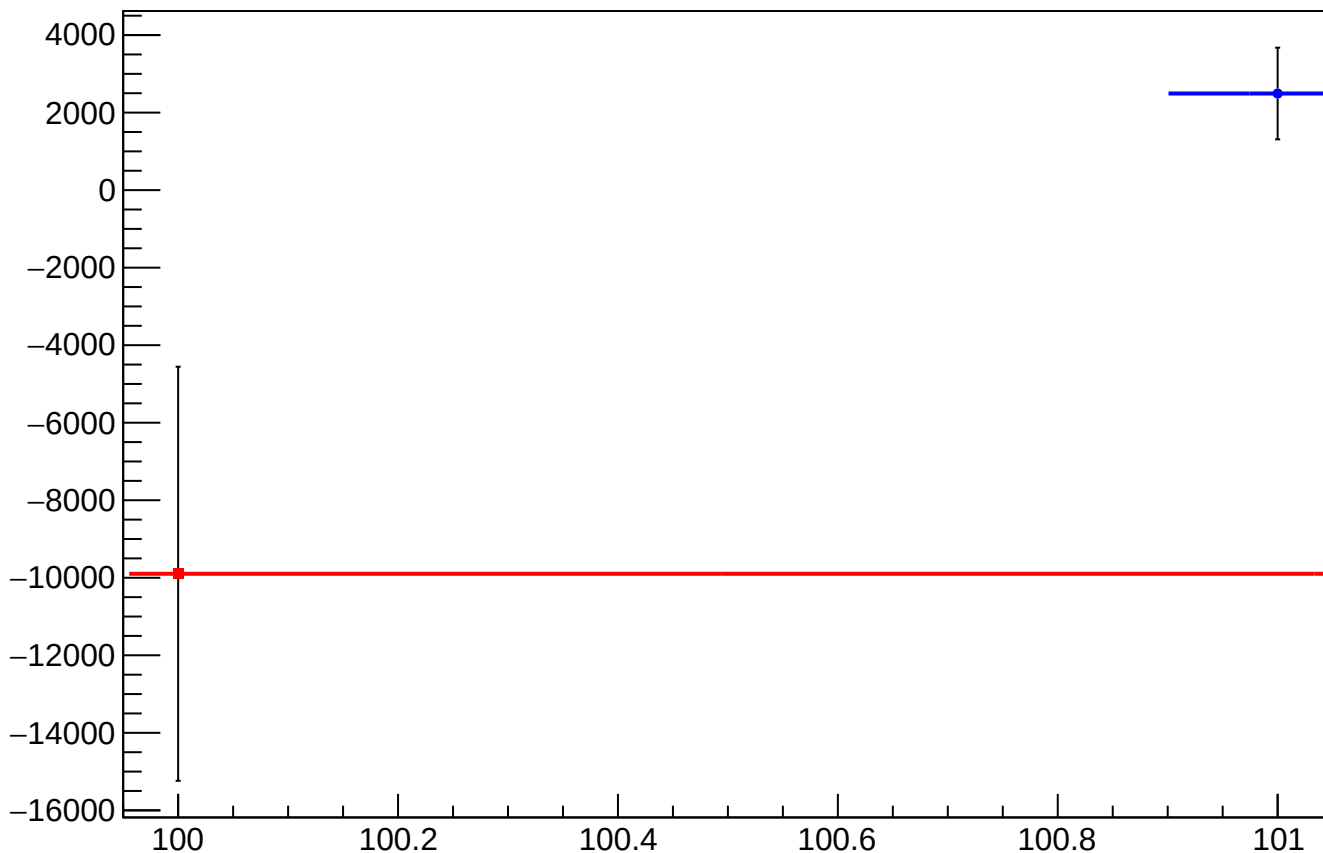
Right: 944.438 $\pm$ 0.787  $\chi^2$ /NDF: 15945.7/1

In: 922.628 $\pm$ 0.806  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 944.438 $\pm$ 0.787  $\chi^2$ /NDF: 15945.7/1

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 2492.365+/-1182.751  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -9896.727+/-5340.921  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

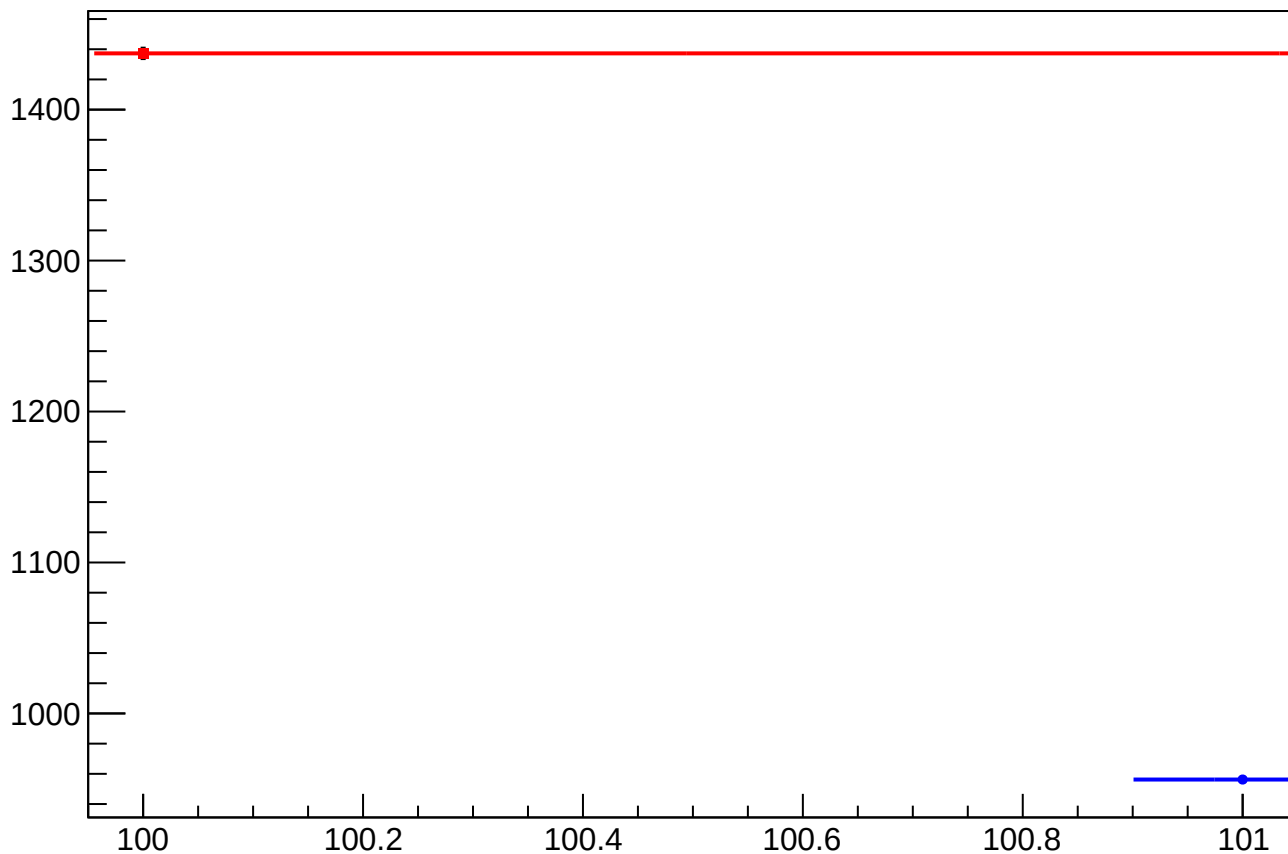
Right: 1913.201+/-1154.774  $\chi^2/\text{NDF}$ : 5.1/1

In: 2492.365+/-1182.751  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1913.201+/-1154.774  $\chi^2/\text{NDF}$ : 5.1/1

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 956.221+/-0.836  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1437.263+/-3.777  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 978.709+/-0.817  $\chi^2/\text{NDF}$ : 15465.8/1

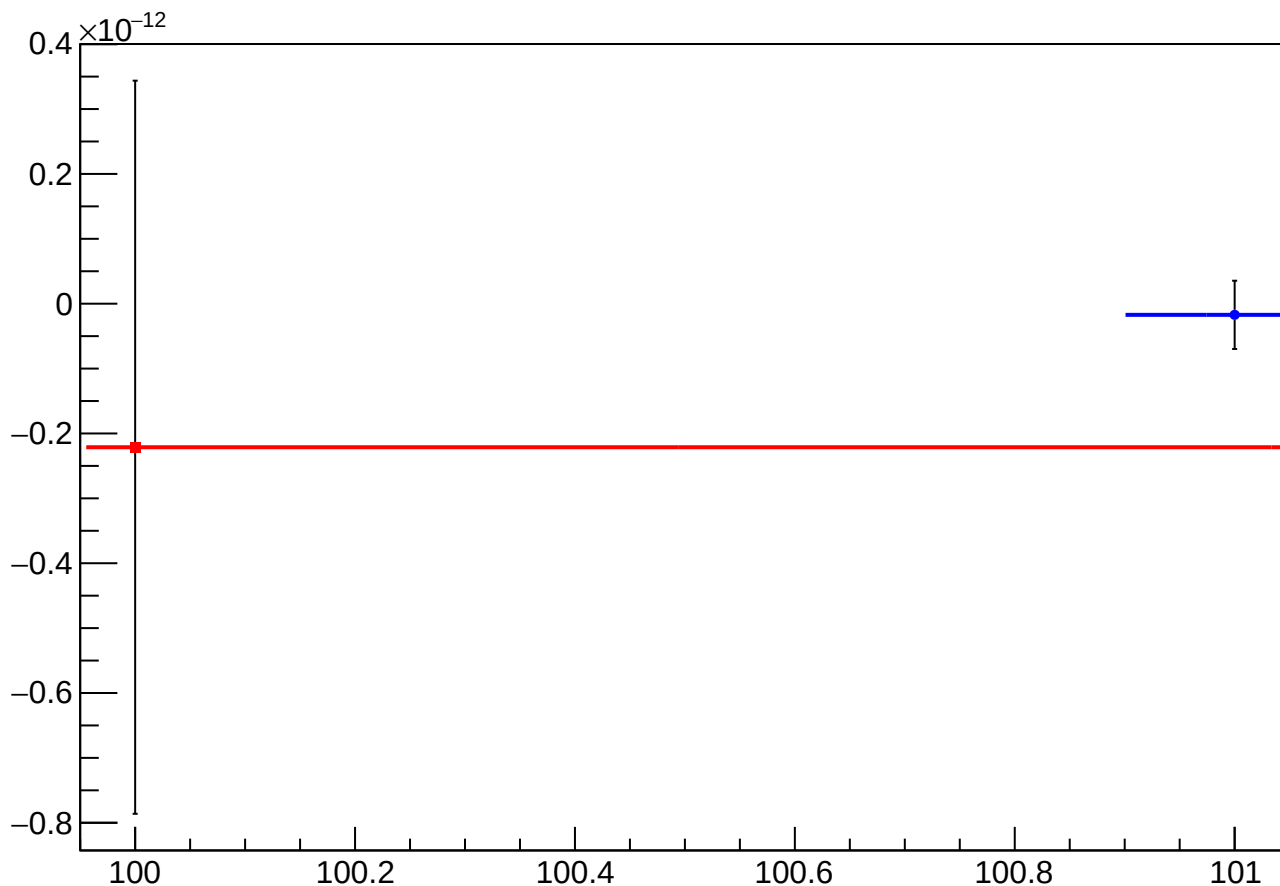
In: 956.221+/-0.836  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 978.709+/-0.817  $\chi^2/\text{NDF}$ : 15465.8/1



asym\_sam\_12345678\_avg\_reg\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

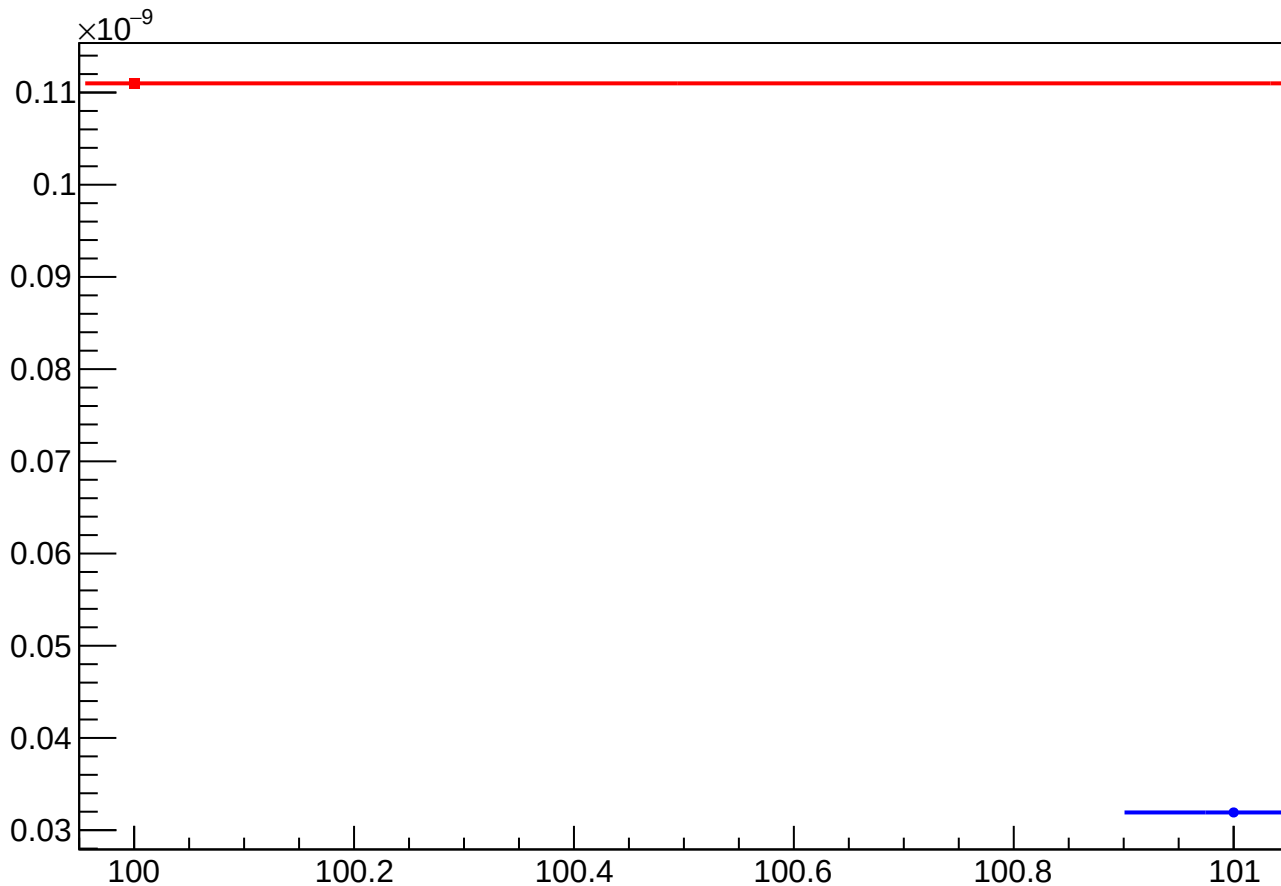
Right: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

In: -0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.000+/-0.000  $\chi^2$ /NDF: 0.1/1

asym\_sam\_12345678\_avg\_reg\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

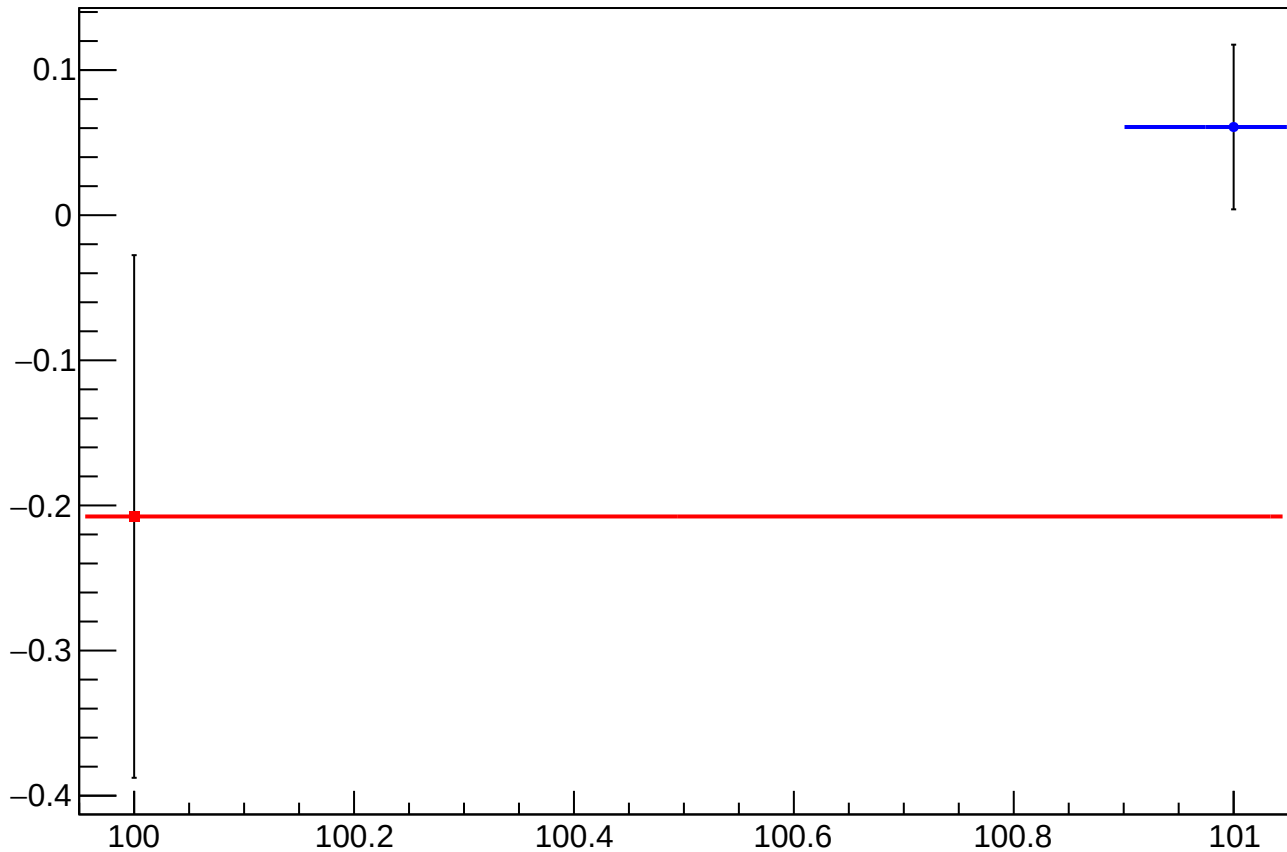
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38844.9/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 38844.9/1

asym\_sam\_12345678\_avg\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.061 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.208 $\pm$ 0.180  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

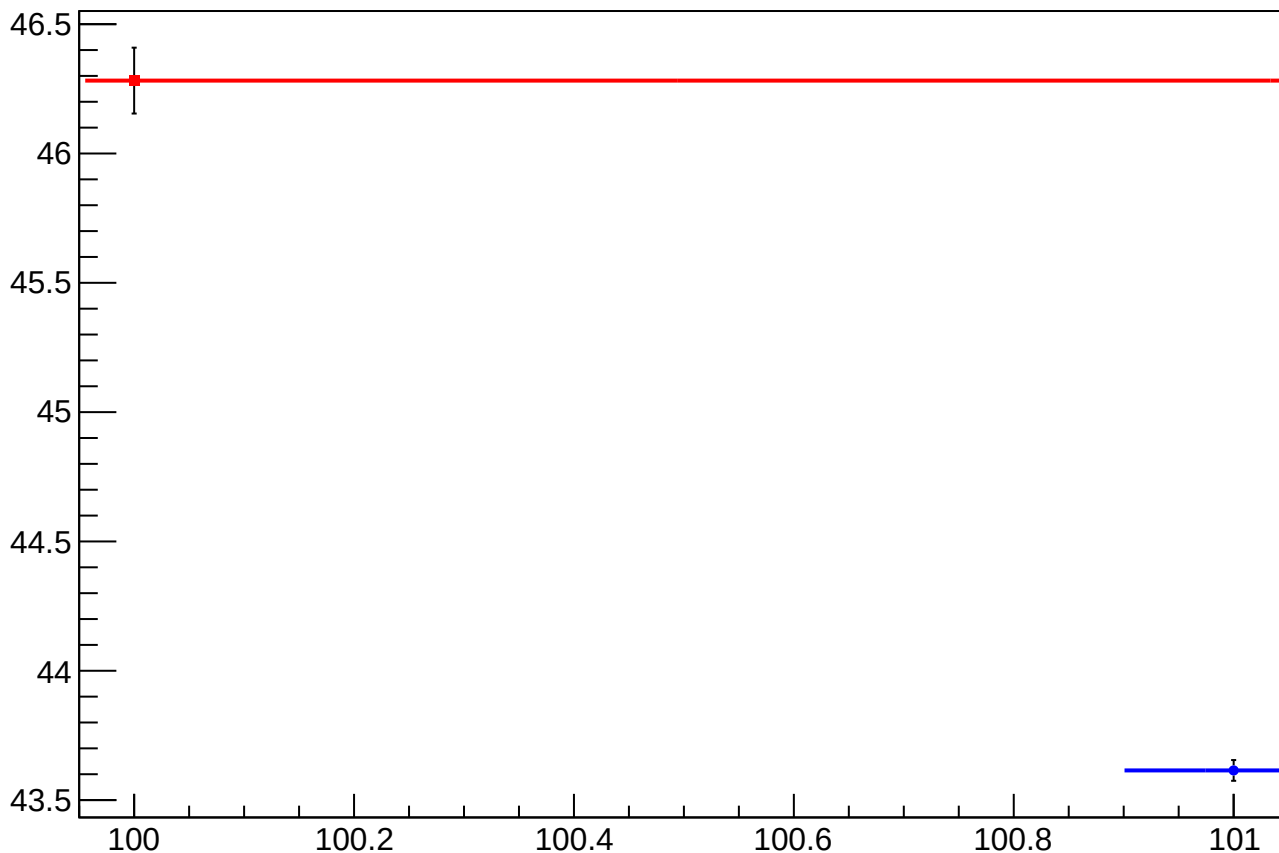
Right: 0.037 $\pm$ 0.054  $\chi^2$ /NDF: 2.0/1

In: 0.061 $\pm$ 0.057  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.037 $\pm$ 0.054  $\chi^2$ /NDF: 2.0/1

asym\_sam\_12345678\_avg\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 43.615 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.282 $\pm$ 0.127  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

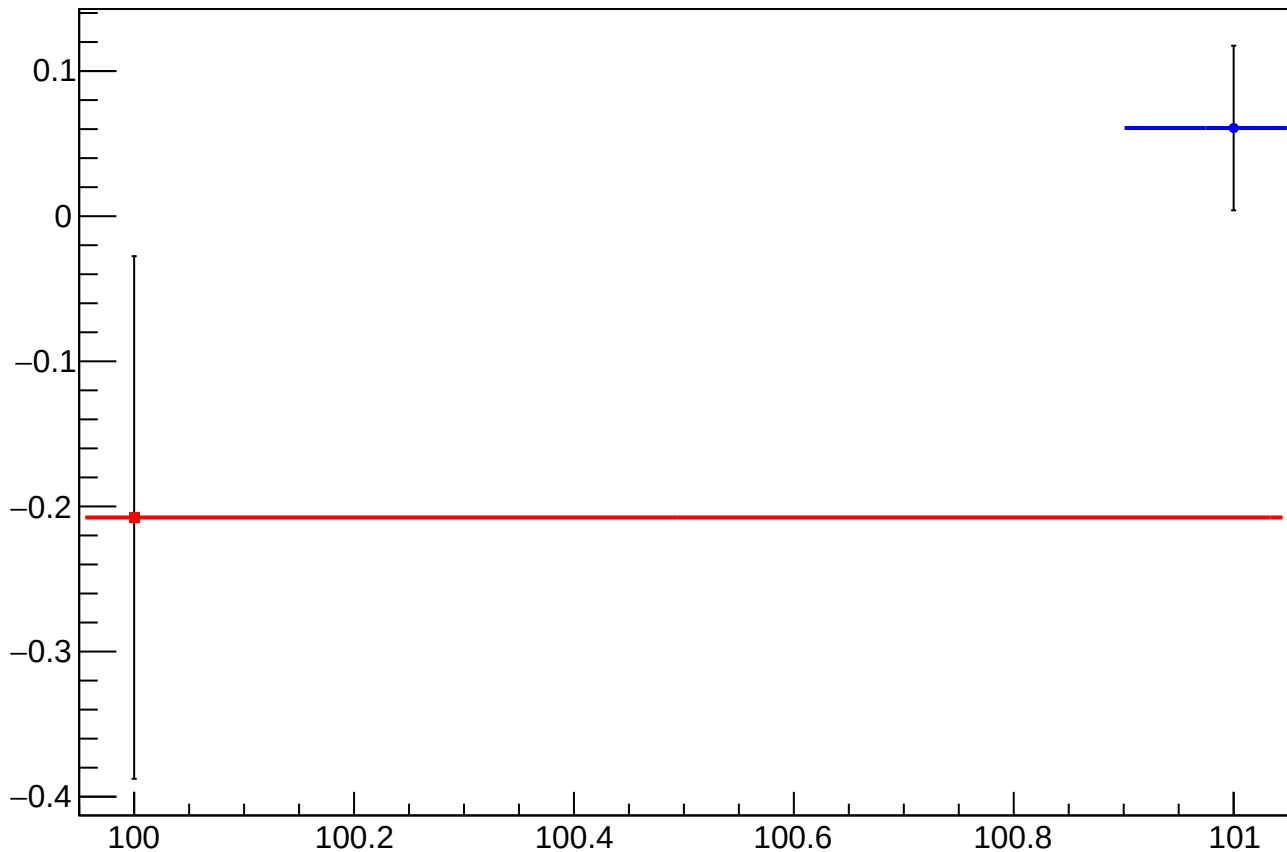
Right: 43.856 $\pm$ 0.038  $\chi^2$ /NDF: 399.2/1

In: 43.615 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 43.856 $\pm$ 0.038  $\chi^2$ /NDF: 399.2/1

asym\_sam\_12345678\_avg\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.061 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.208 $\pm$ 0.180  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

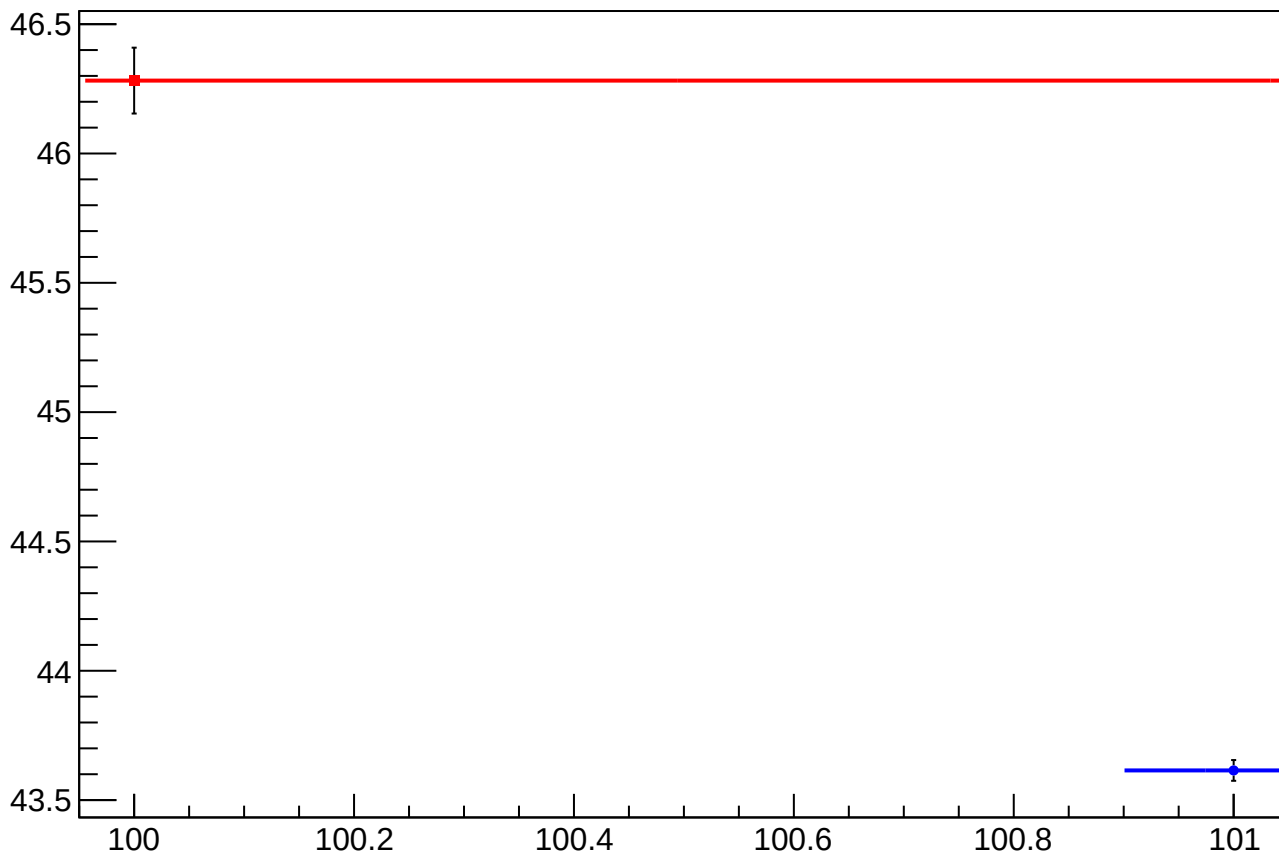
Right: 0.037 $\pm$ 0.054  $\chi^2$ /NDF: 2.0/1

In: 0.061 $\pm$ 0.057  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.037 $\pm$ 0.054  $\chi^2$ /NDF: 2.0/1

asym\_sam\_12345678\_avg\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 43.615 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.282 $\pm$ 0.127  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

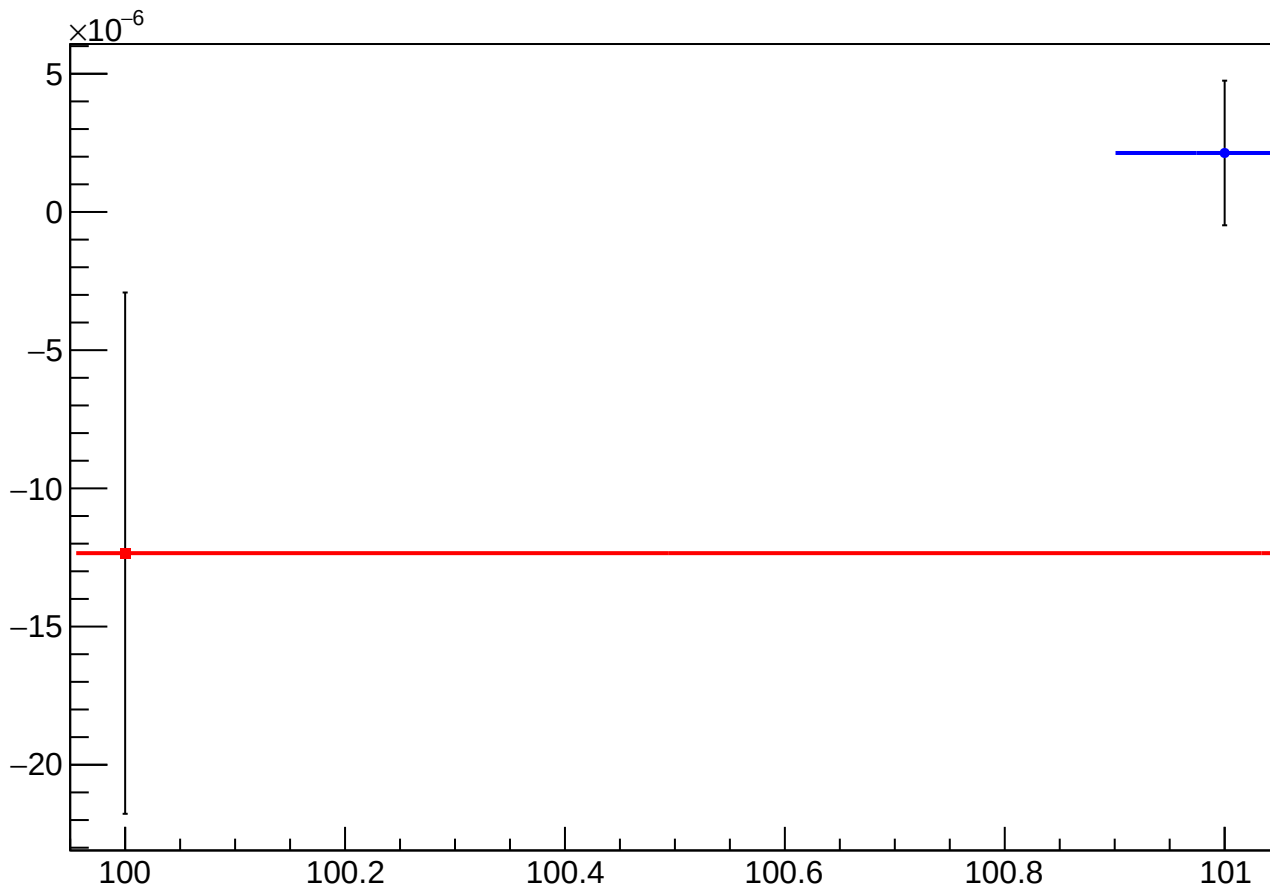
Right: 43.856 $\pm$ 0.038  $\chi^2$ /NDF: 399.2/1

In: 43.615 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 43.856 $\pm$ 0.038  $\chi^2$ /NDF: 399.2/1

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_dit\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

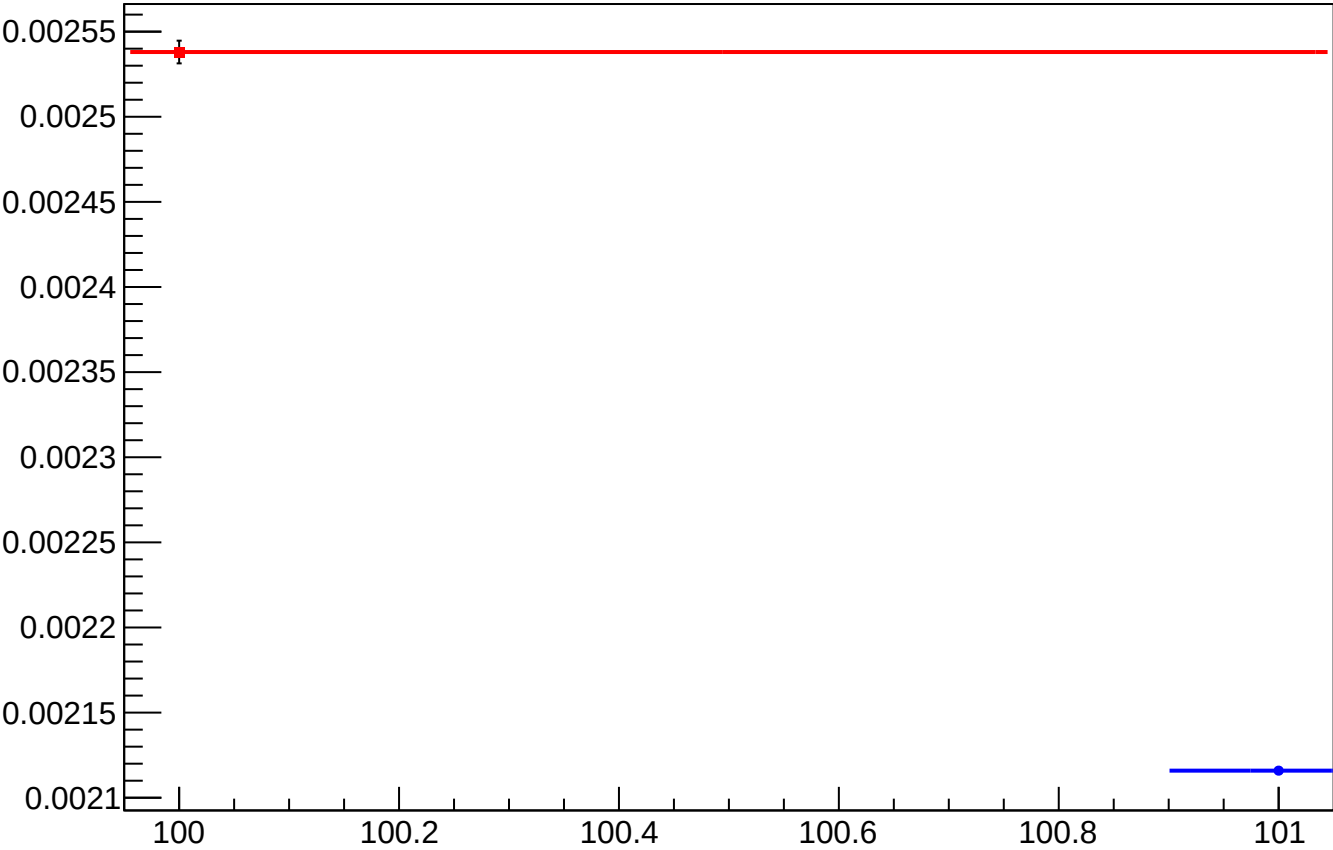
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.2/1

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 2.2/1

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_dit\_diff\_rms vs Slug, Sign Corrected

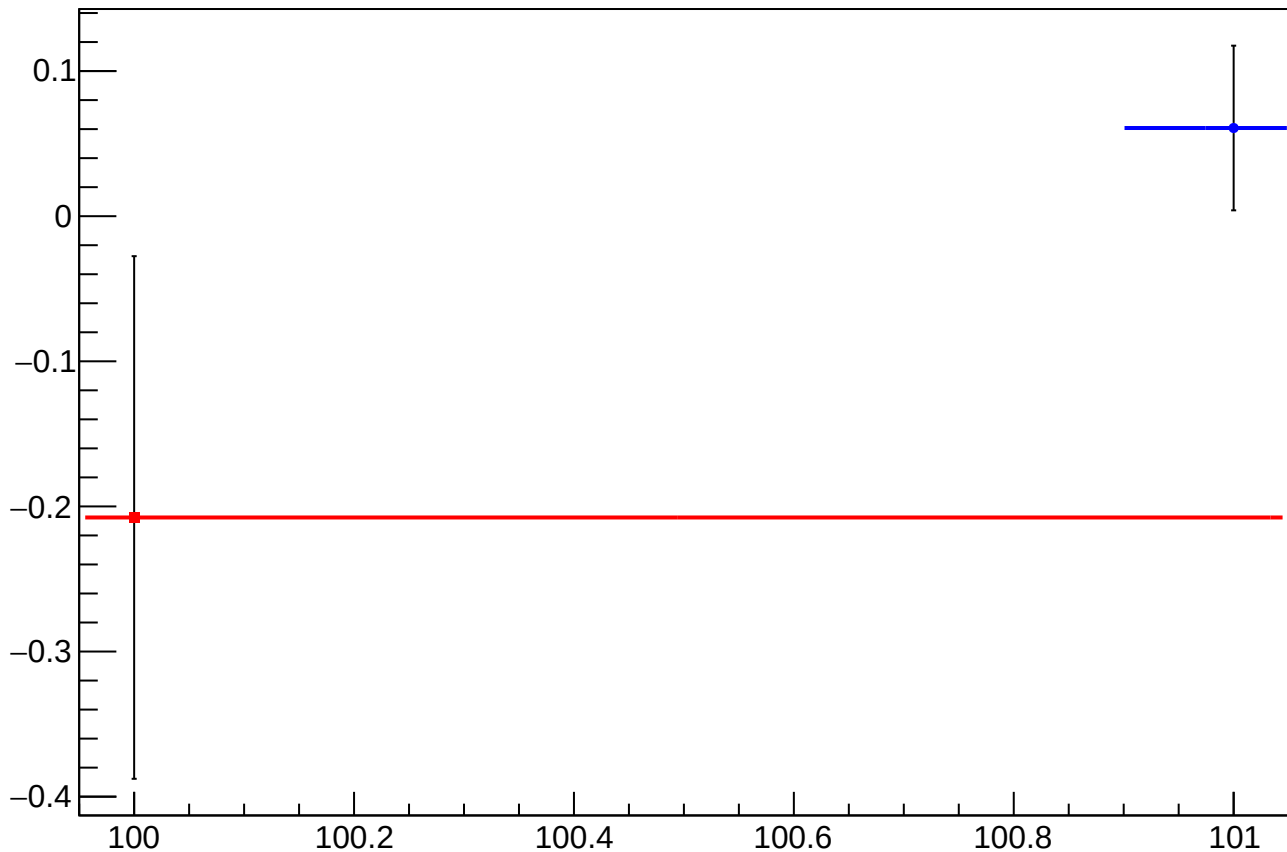


Right In: 0.002+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
Right Out: 0.003+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.002+/-0.000     $\chi^2/\text{NDF}$ : 3721.1/1  
In: 0.002+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.002+/-0.000     $\chi^2/\text{NDF}$ : 3721.1/1



asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.061 $\pm$ 0.057  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.208 $\pm$ 0.180  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

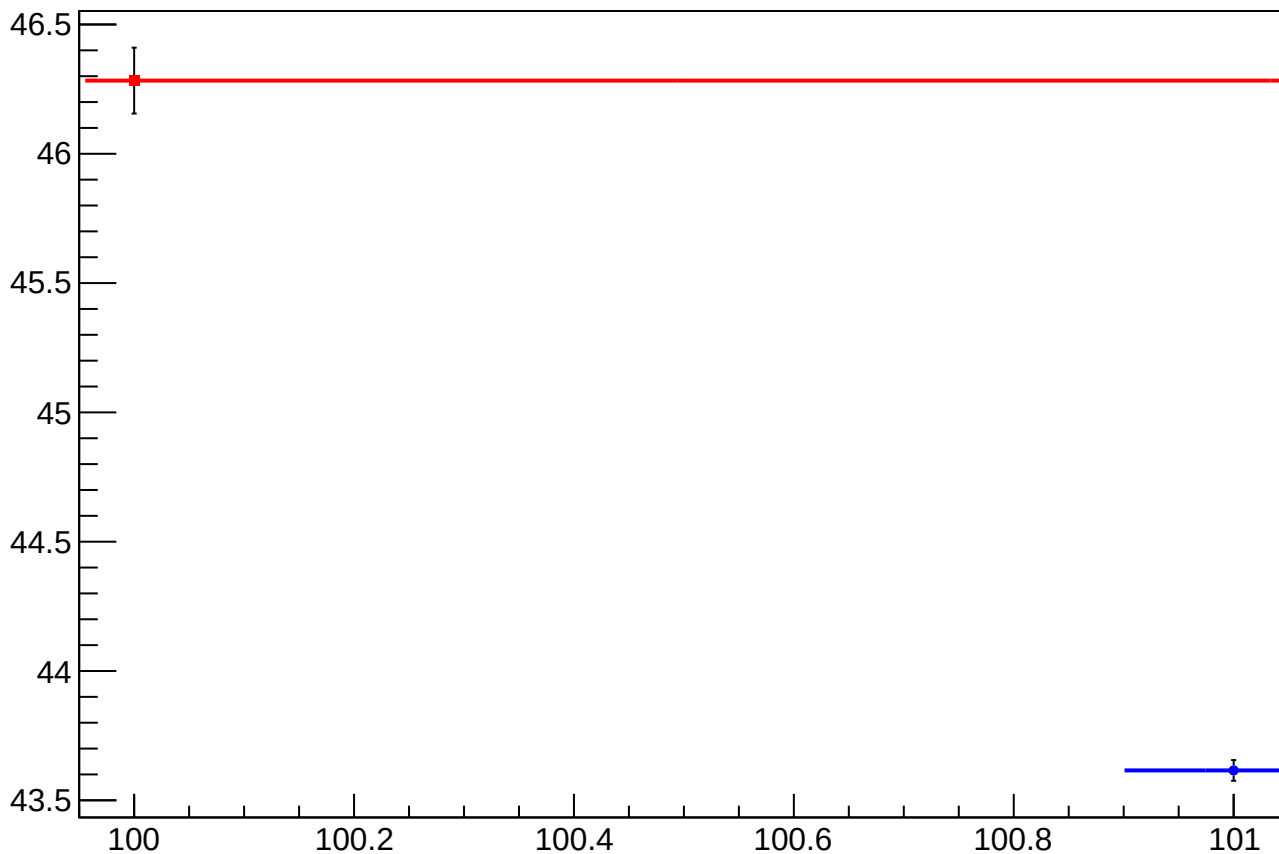
Right: 0.037 $\pm$ 0.054  $\chi^2$ /NDF: 2.0/1

In: 0.061 $\pm$ 0.057  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.037 $\pm$ 0.054  $\chi^2$ /NDF: 2.0/1

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 43.616 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 46.283 $\pm$ 0.127  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

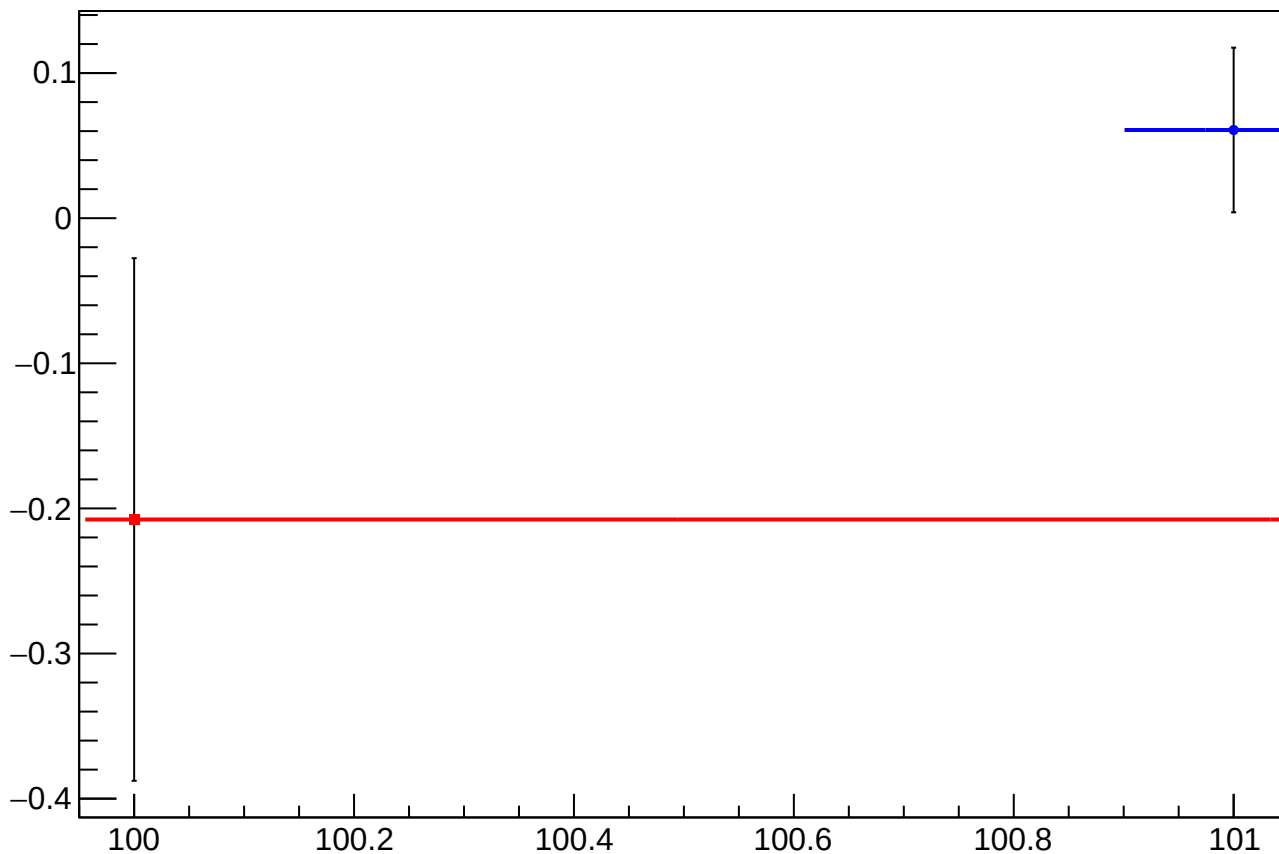
Right: 43.856 $\pm$ 0.038  $\chi^2$ /NDF: 399.2/1

In: 43.616 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 43.856 $\pm$ 0.038  $\chi^2$ /NDF: 399.2/1

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_mean vs Slug, Sign Corrected



Right In: 0.061+/-0.057  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.208+/-0.180  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

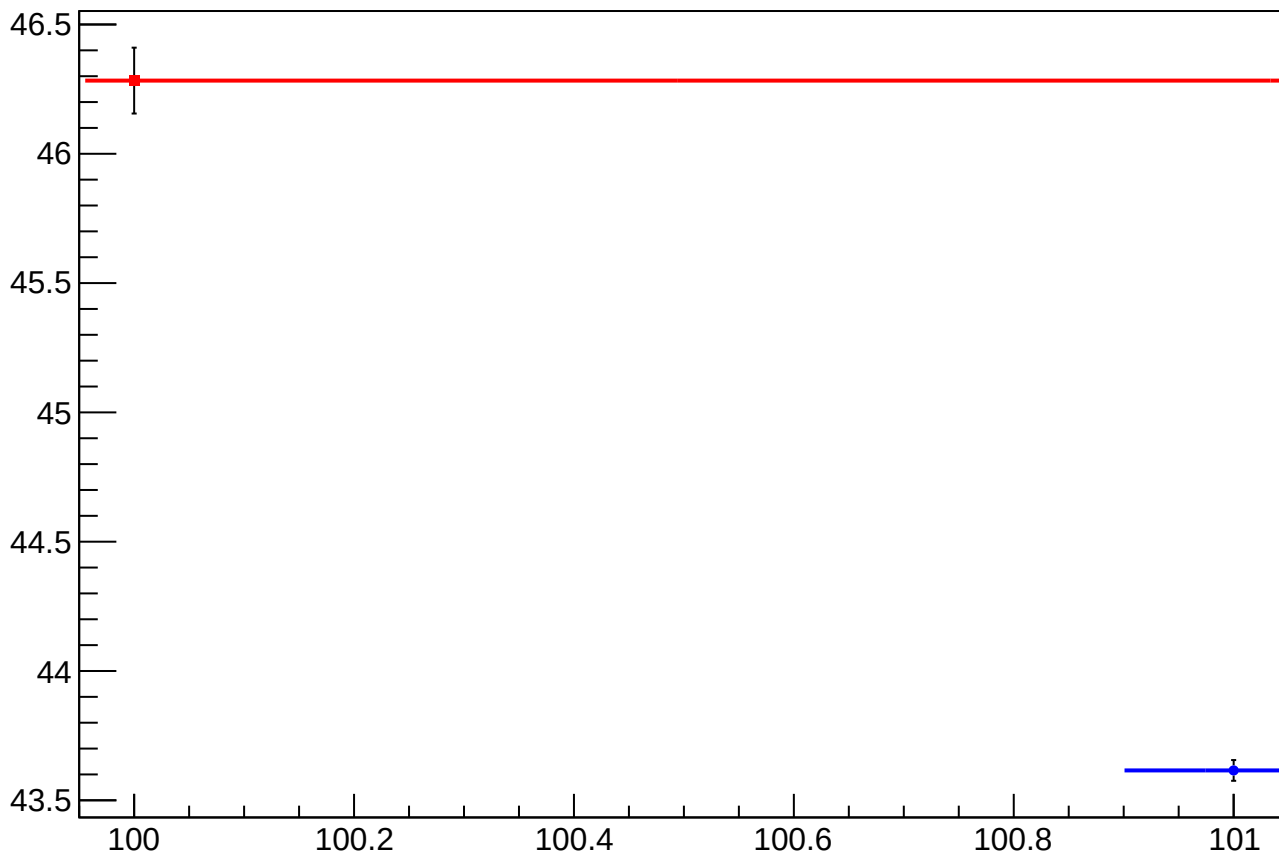
Right: 0.037+/-0.054  $\chi^2/\text{NDF}$ : 2.0/1

In: 0.061+/-0.057  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.037+/-0.054  $\chi^2/\text{NDF}$ : 2.0/1

asym\_sam\_12345678\_avg\_eigen\_dit\_vs\_eigen\_cor\_diff\_rms vs Slug, Sign Corrected



Right In: 43.616 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.283 $\pm$ 0.127  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

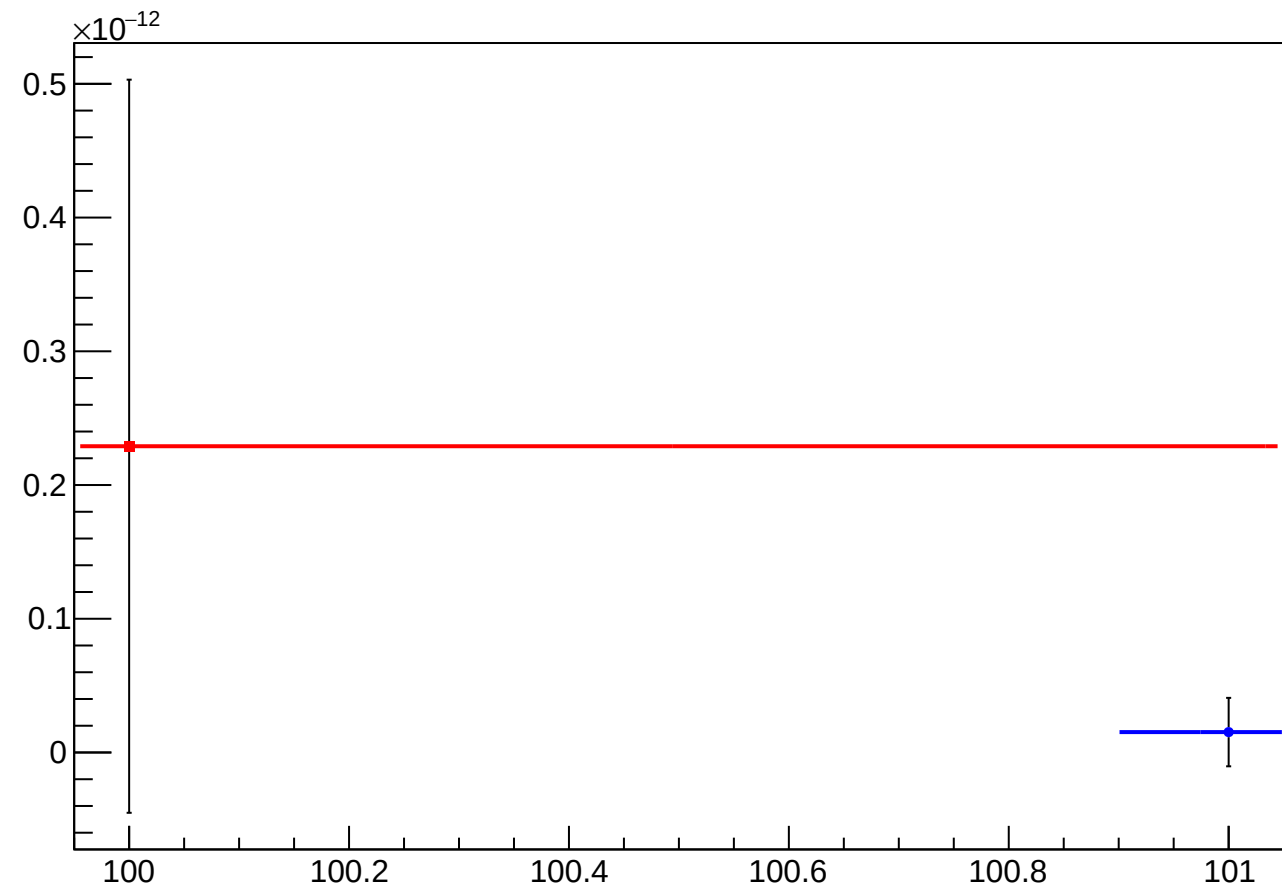
Right: 43.856 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 399.2/1

In: 43.616 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.856 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 399.2/1

asym\_sam\_12345678\_avg\_eigen\_cor\_vs\_cor\_diff\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

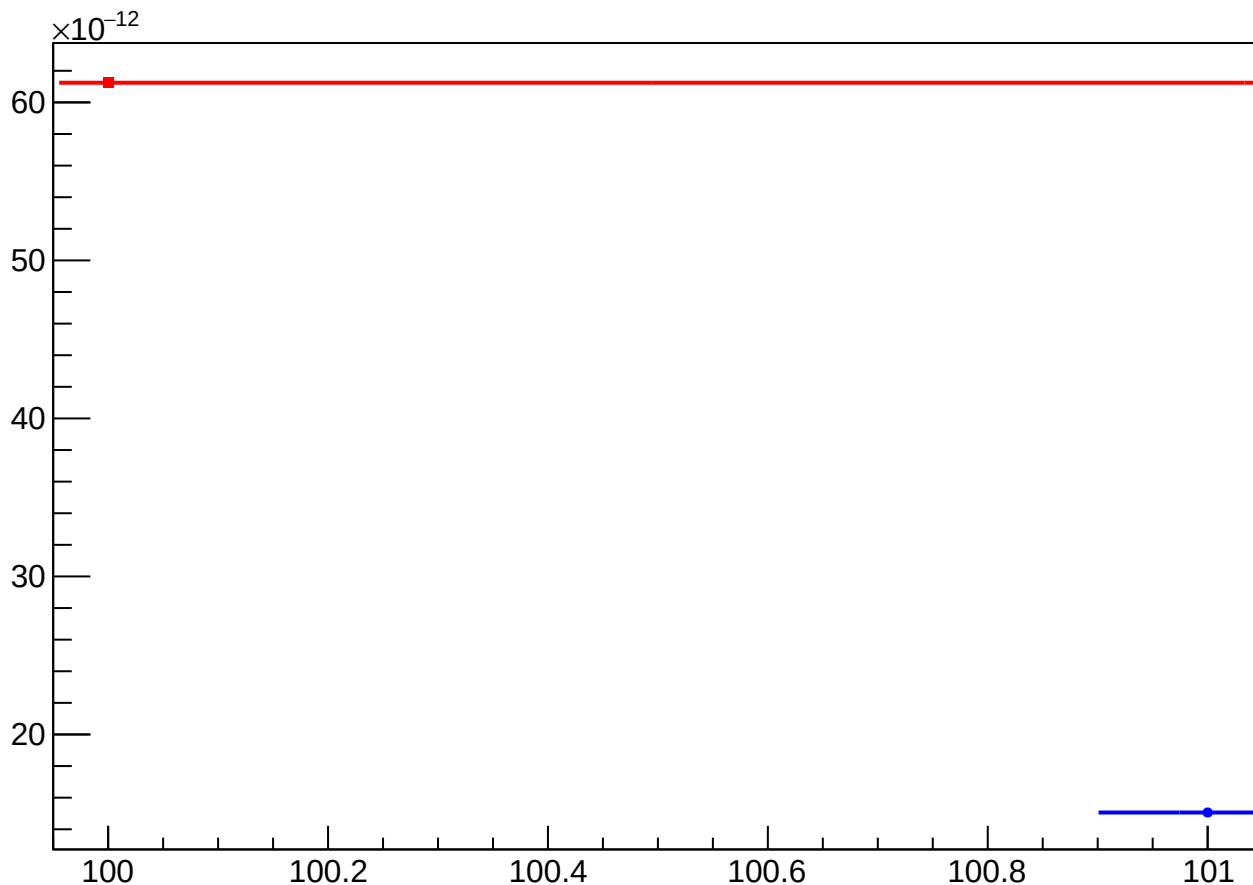
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.6/1

asym\_sam\_12345678\_avg\_eigen\_cor\_vs\_cor\_diff\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

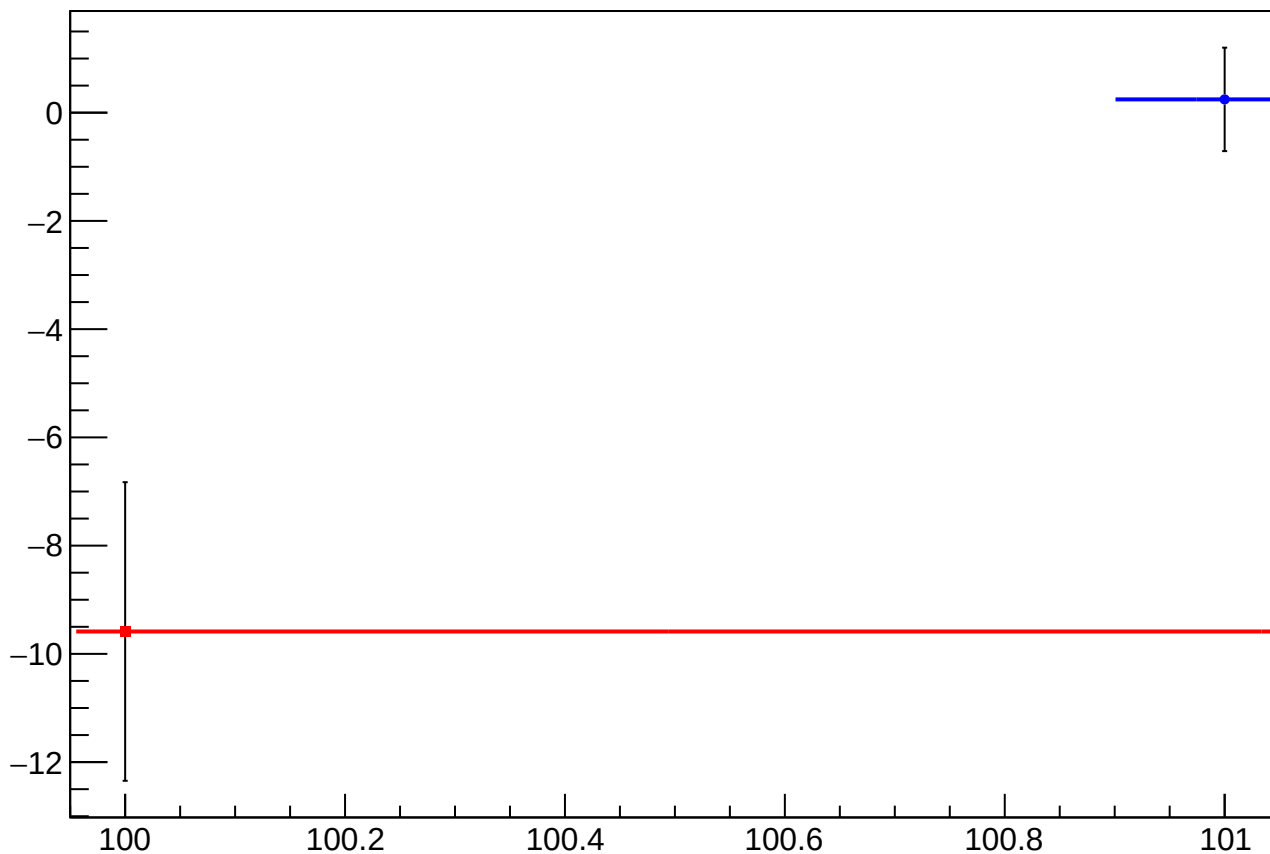
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 56284.2/1

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 56284.2/1

reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.245 $\pm$ 0.956  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -9.586 $\pm$ 2.759  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

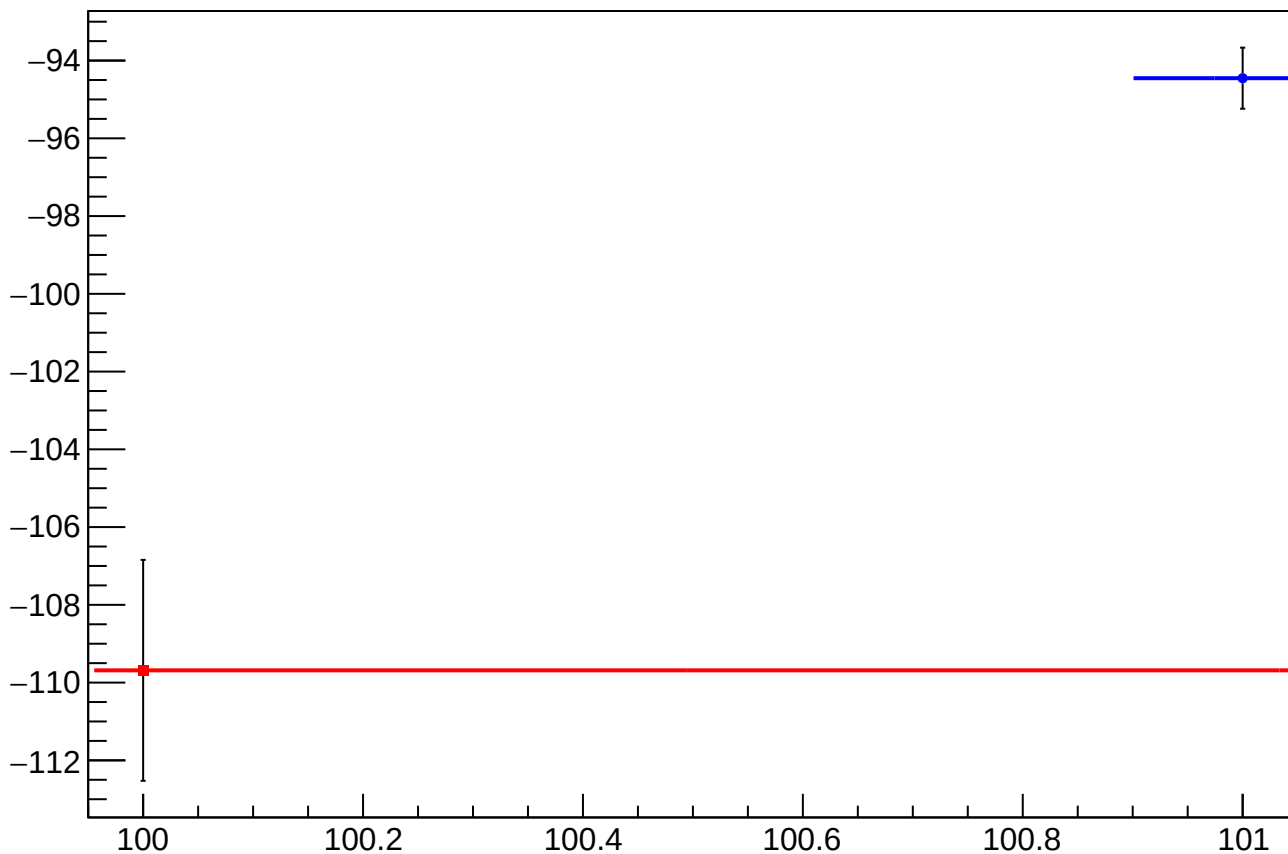
Right: -0.808 $\pm$ 0.903  $\chi^2$ /NDF: 11.3/1

In: 0.245 $\pm$ 0.956  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.808 $\pm$ 0.903  $\chi^2$ /NDF: 11.3/1

reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -94.453 $\pm$ 0.785  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -109.685 $\pm$ 2.841  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -95.534 $\pm$ 0.757  $\chi^2/\text{NDF}$ : 26.7/1

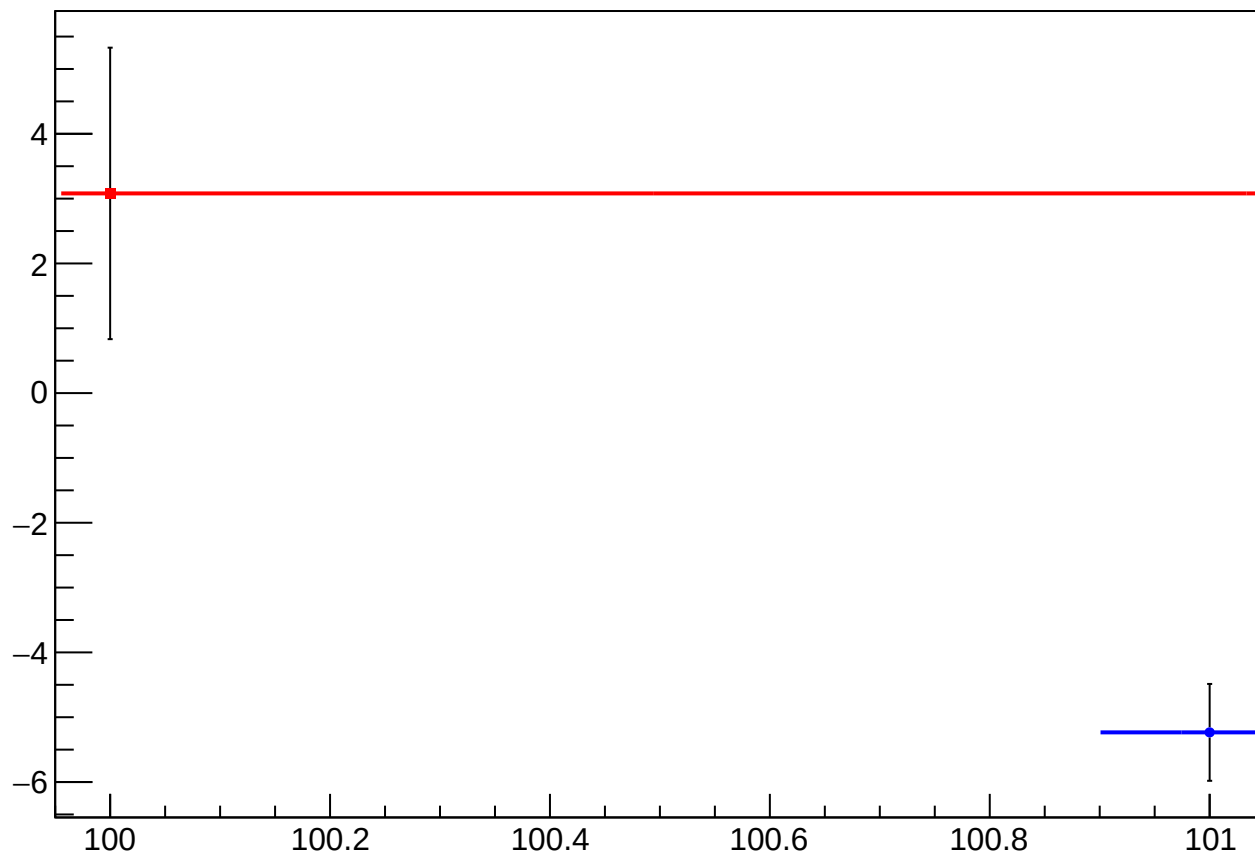
In: -94.453 $\pm$ 0.785  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -95.534 $\pm$ 0.757  $\chi^2/\text{NDF}$ : 26.7/1



reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -5.234 $\pm$ 0.747  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3.080 $\pm$ 2.248  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

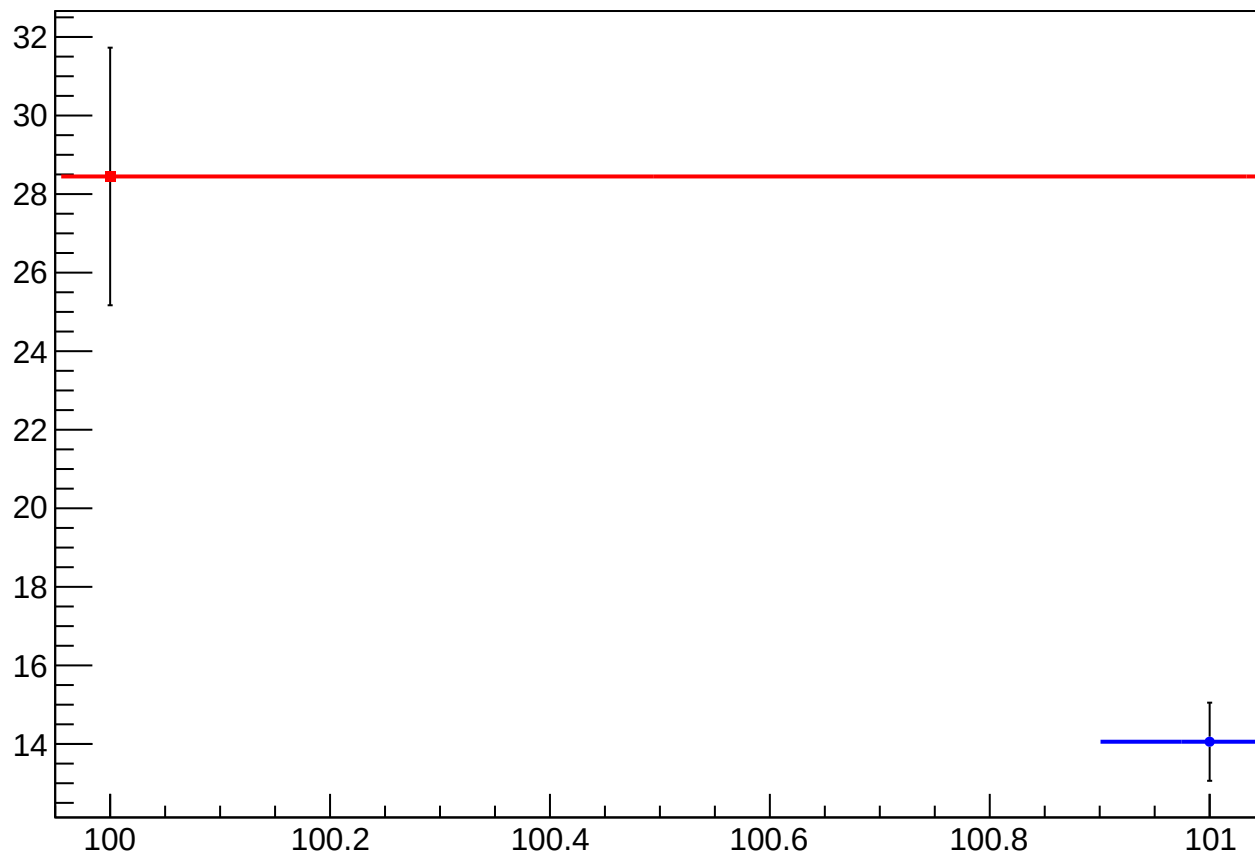
Right: -4.407 $\pm$ 0.709  $\chi^2$ /NDF: 12.3/1

In: -5.234 $\pm$ 0.747  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -4.407 $\pm$ 0.709  $\chi^2$ /NDF: 12.3/1

reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 14.057 $\pm$ 0.995  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.448 $\pm$ 3.279  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

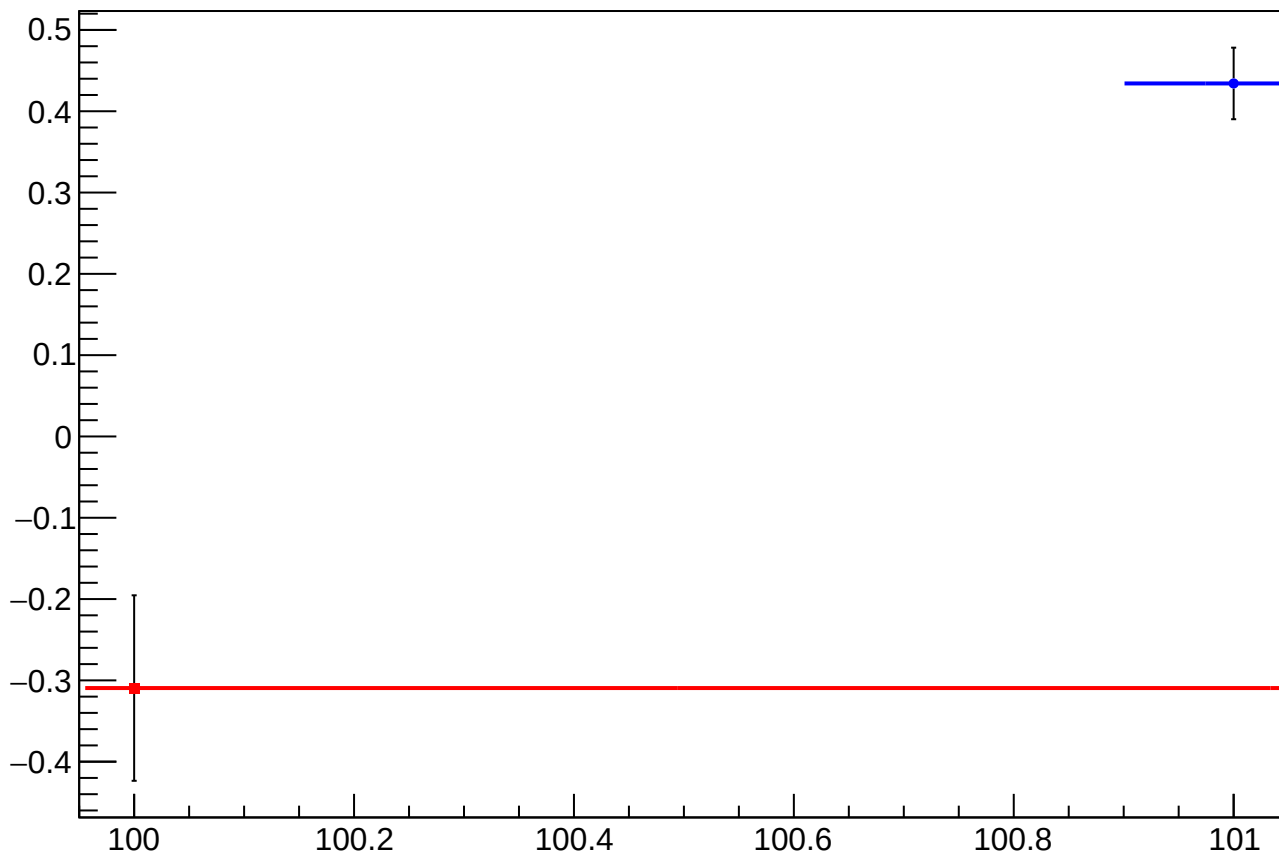
Right: 15.269 $\pm$ 0.952  $\chi^2$ /NDF: 17.6/1

In: 14.057 $\pm$ 0.995  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 15.269 $\pm$ 0.952  $\chi^2$ /NDF: 17.6/1

reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.434 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.309 $\pm$ 0.114  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

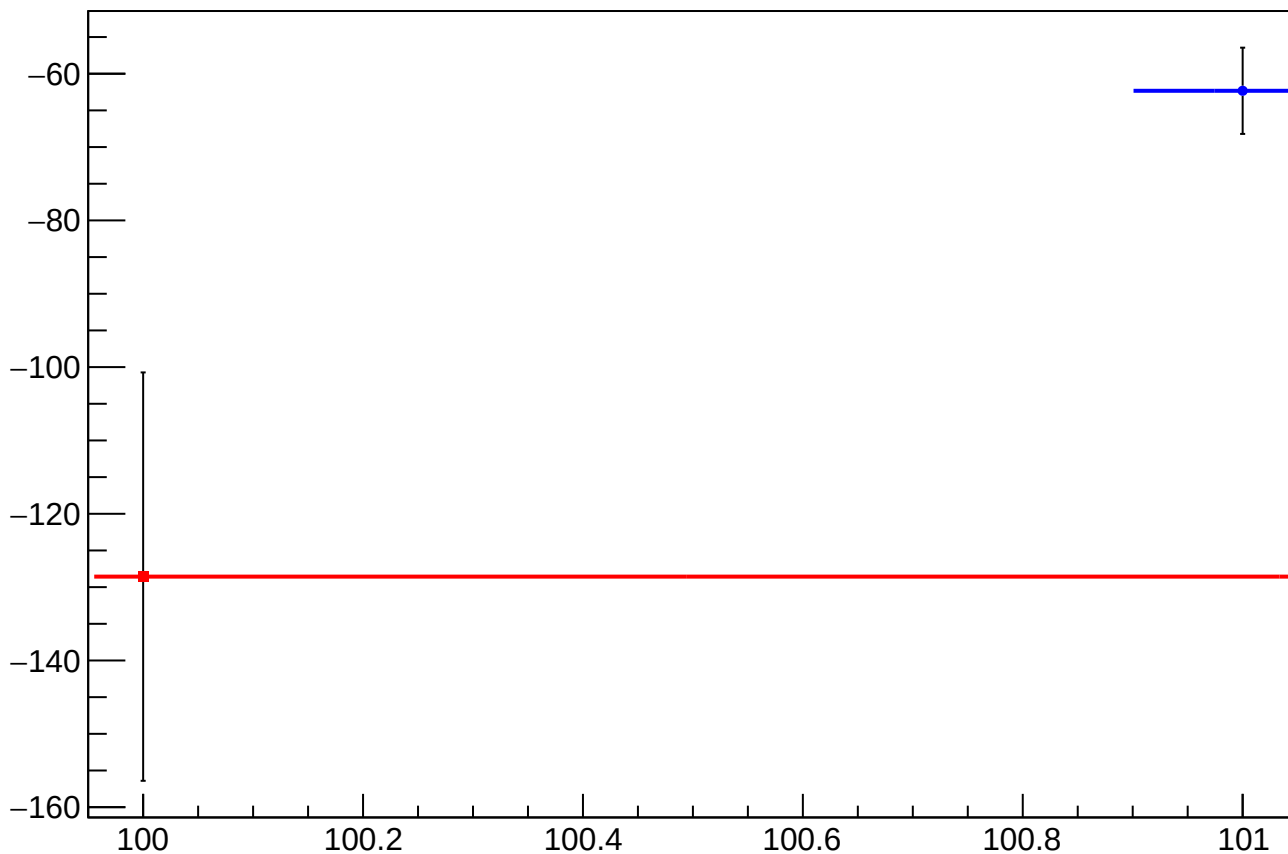
Right: 0.338 $\pm$ 0.041  $\chi^2$ /NDF: 37.0/1

In: 0.434 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.338 $\pm$ 0.041  $\chi^2$ /NDF: 37.0/1

reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -62.328+/-5.880  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -128.565+/-27.839  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

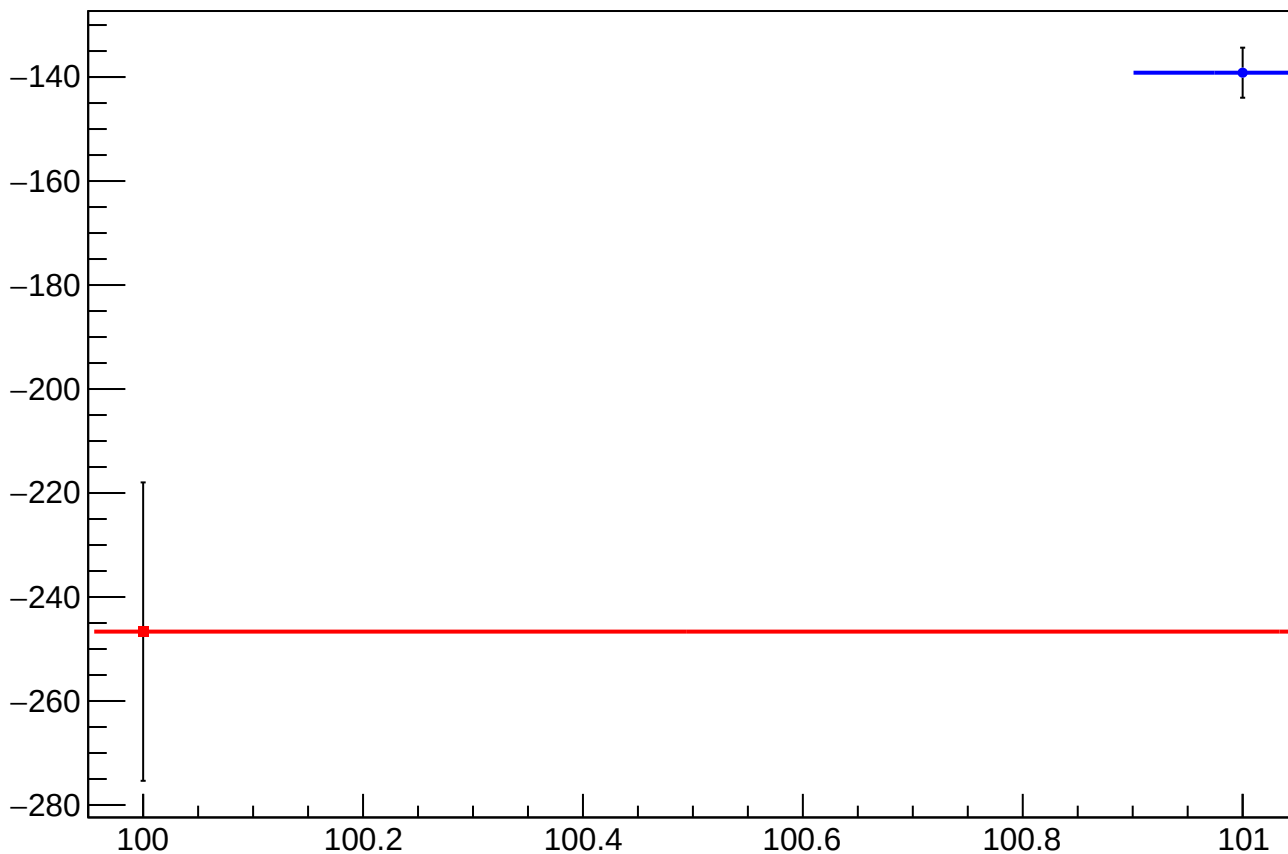
Right: -65.156+/-5.753  $\chi^2/\text{NDF}$ : 5.4/1

In: -62.328+/-5.880  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -65.156+/-5.753  $\chi^2/\text{NDF}$ : 5.4/1

reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -139.168 $\pm$ 4.814  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -246.655 $\pm$ 28.693  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

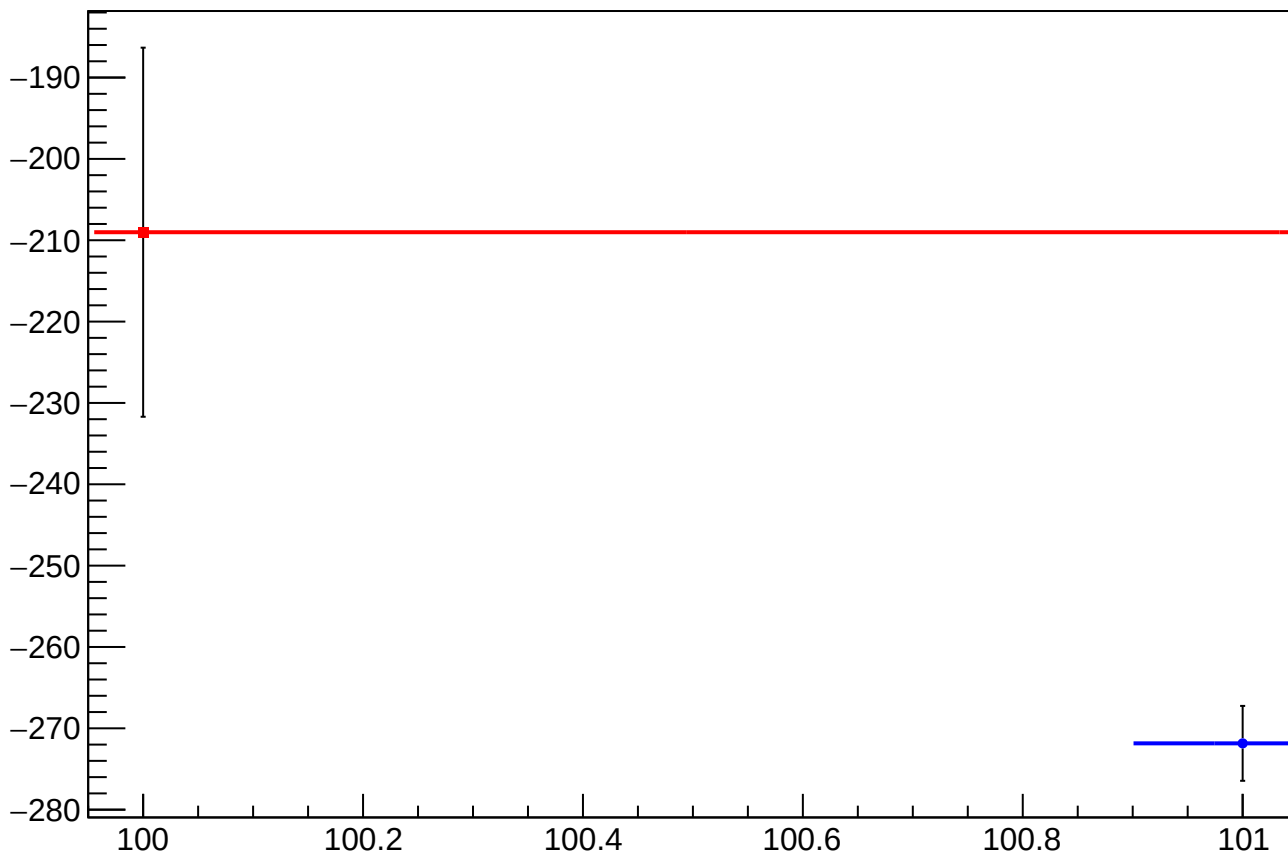
Right: -142.111 $\pm$ 4.748  $\chi^2/\text{NDF}$ : 13.6/1

In: -139.168 $\pm$ 4.814  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -142.111 $\pm$ 4.748  $\chi^2/\text{NDF}$ : 13.6/1

reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -271.848+/-4.603  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -209.013+/-22.686  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

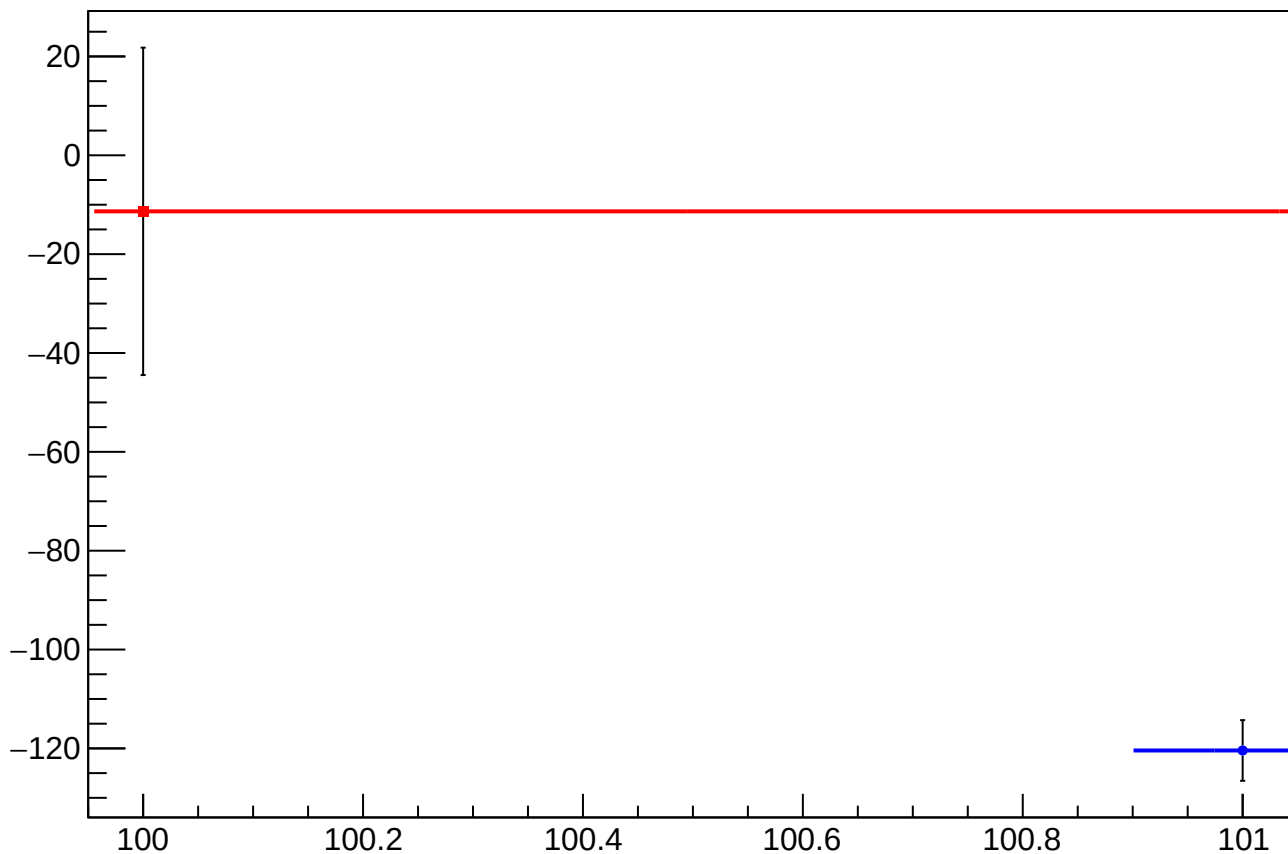
Right: -269.363+/-4.511  $\chi^2/\text{NDF}$ : 7.4/1

In: -271.848+/-4.603  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -269.363+/-4.511  $\chi^2/\text{NDF}$ : 7.4/1

reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -120.420+/-6.135  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -11.343+/-33.118  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

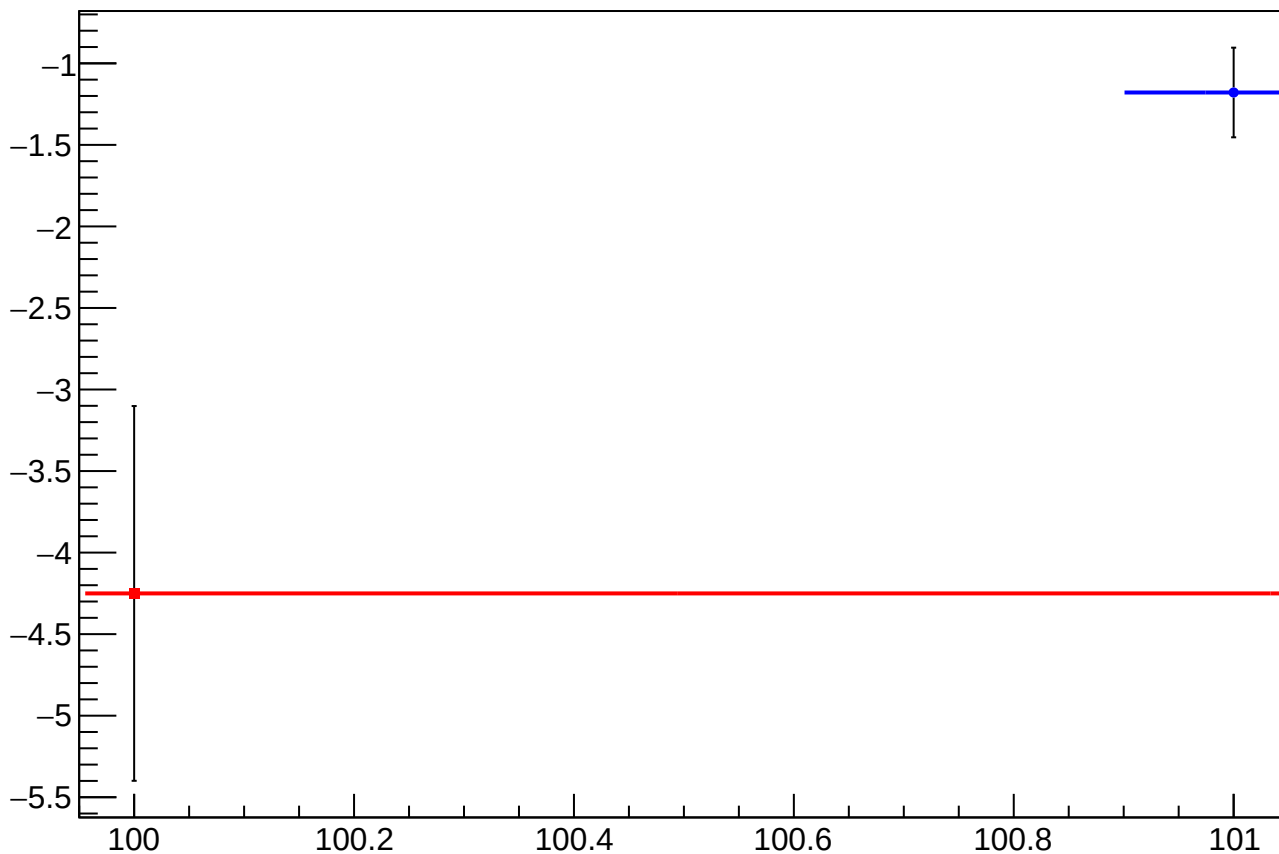
Right: -116.801+/-6.032  $\chi^2$ /NDF: 10.5/1

In: -120.420+/-6.135  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -116.801+/-6.032  $\chi^2$ /NDF: 10.5/1

reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -1.179+/-0.275  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.250+/-1.149  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -1.345+/-0.267  $\chi^2/\text{NDF}$ : 6.8/1

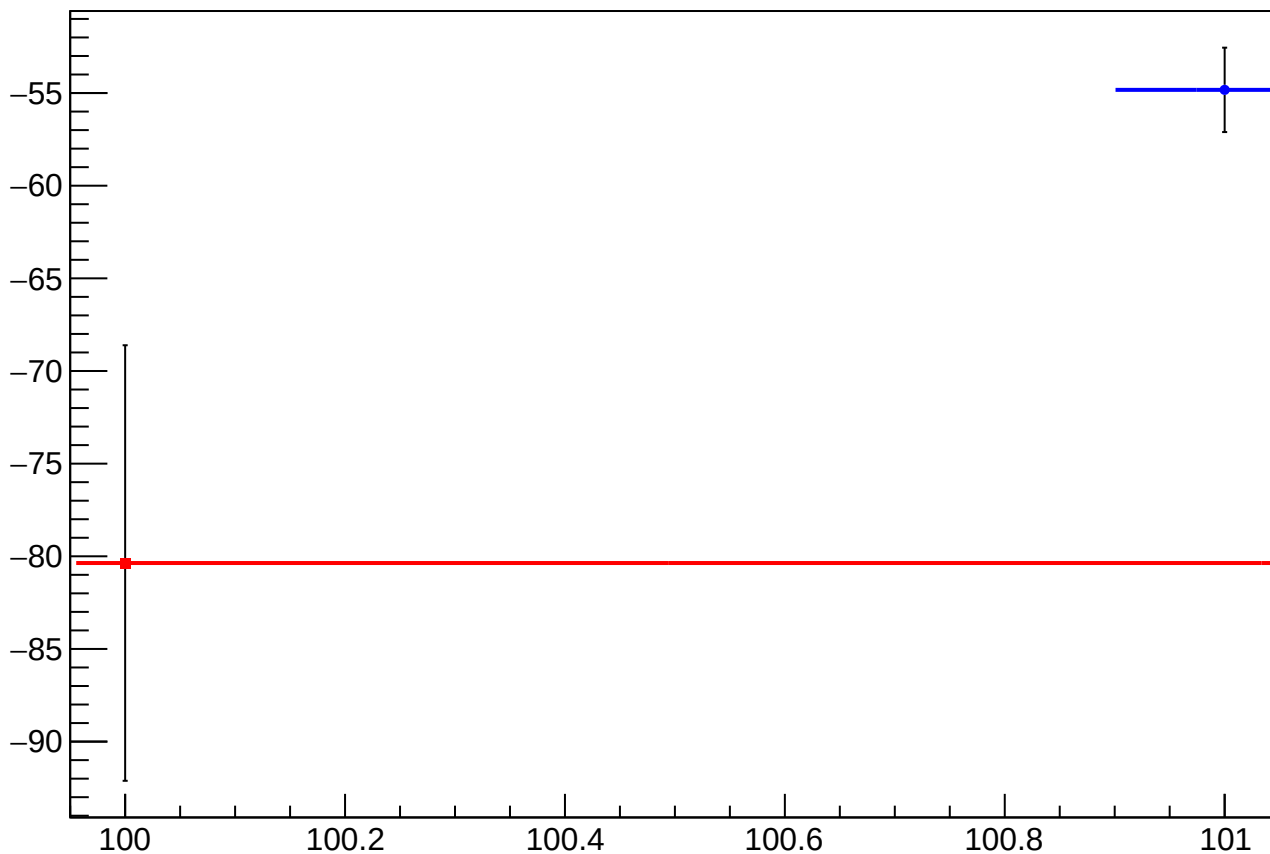
In: -1.179+/-0.275  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.345+/-0.267  $\chi^2/\text{NDF}$ : 6.8/1



reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -54.828 $\pm$ 2.277  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -80.363 $\pm$ 11.753  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

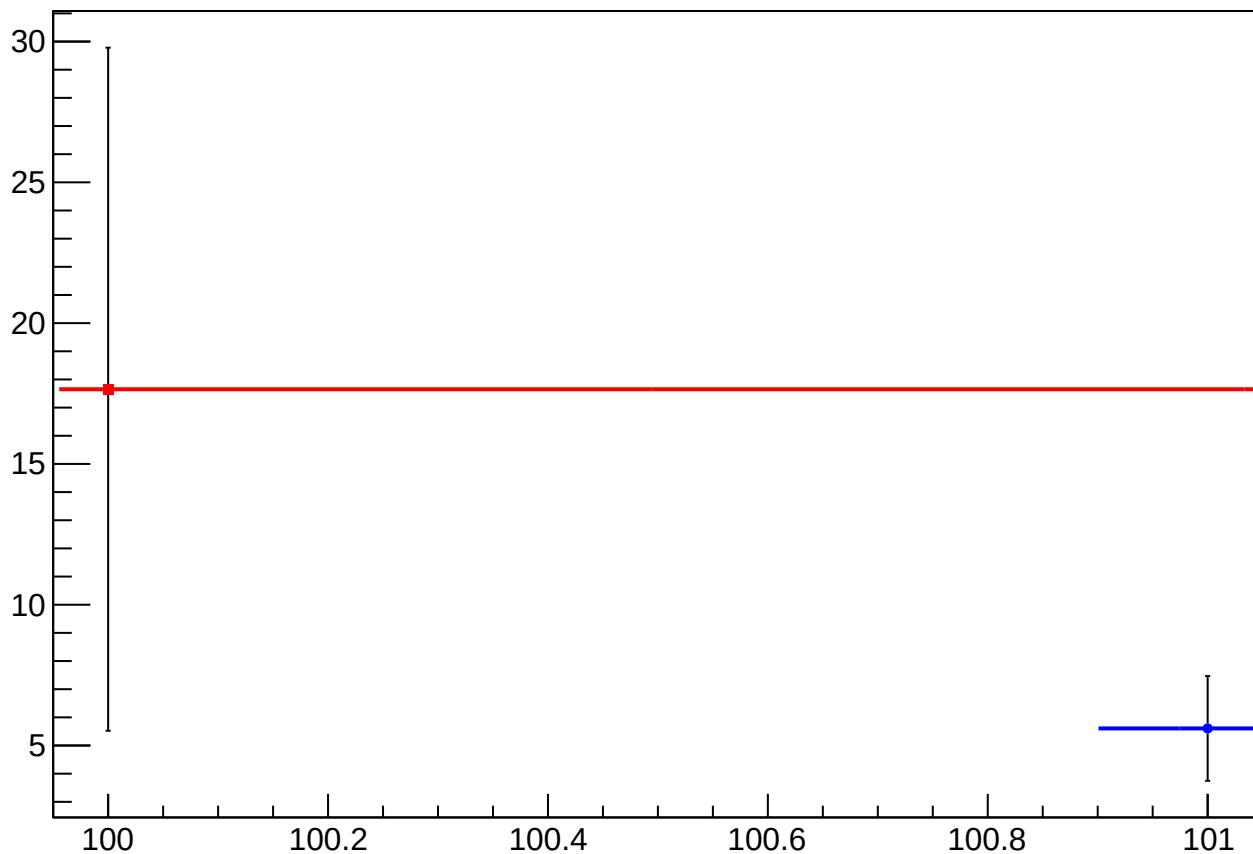
Right: -55.752 $\pm$ 2.235  $\chi^2/\text{NDF}$ : 4.5/1

In: -54.828 $\pm$ 2.277  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -55.752 $\pm$ 2.235  $\chi^2/\text{NDF}$ : 4.5/1

reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.607 $\pm$ 1.860  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.653 $\pm$ 12.130  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

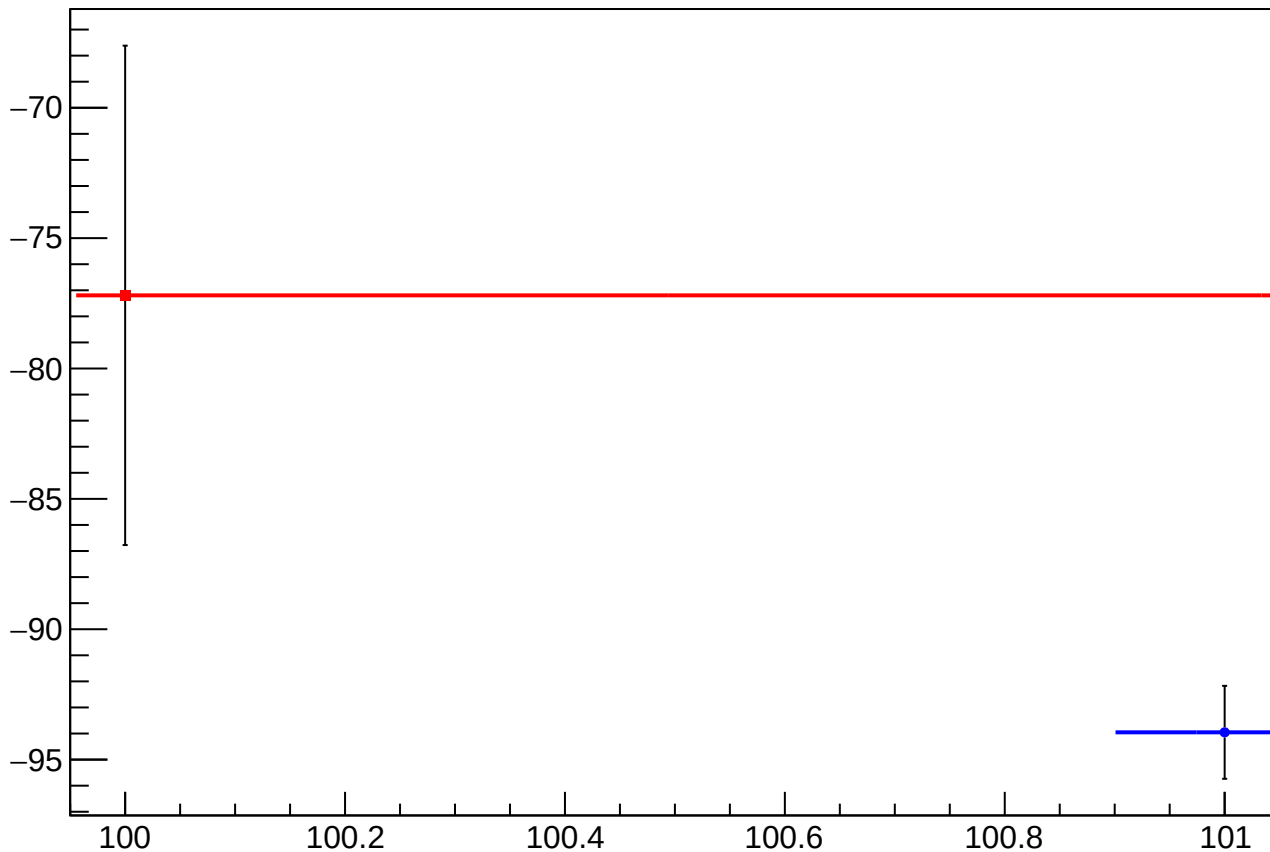
Right: 5.884 $\pm$ 1.839  $\chi^2$ /NDF: 1.0/1

In: 5.607 $\pm$ 1.860  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.884 $\pm$ 1.839  $\chi^2$ /NDF: 1.0/1

reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -93.954 $\pm$ 1.783  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -77.195 $\pm$ 9.577  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

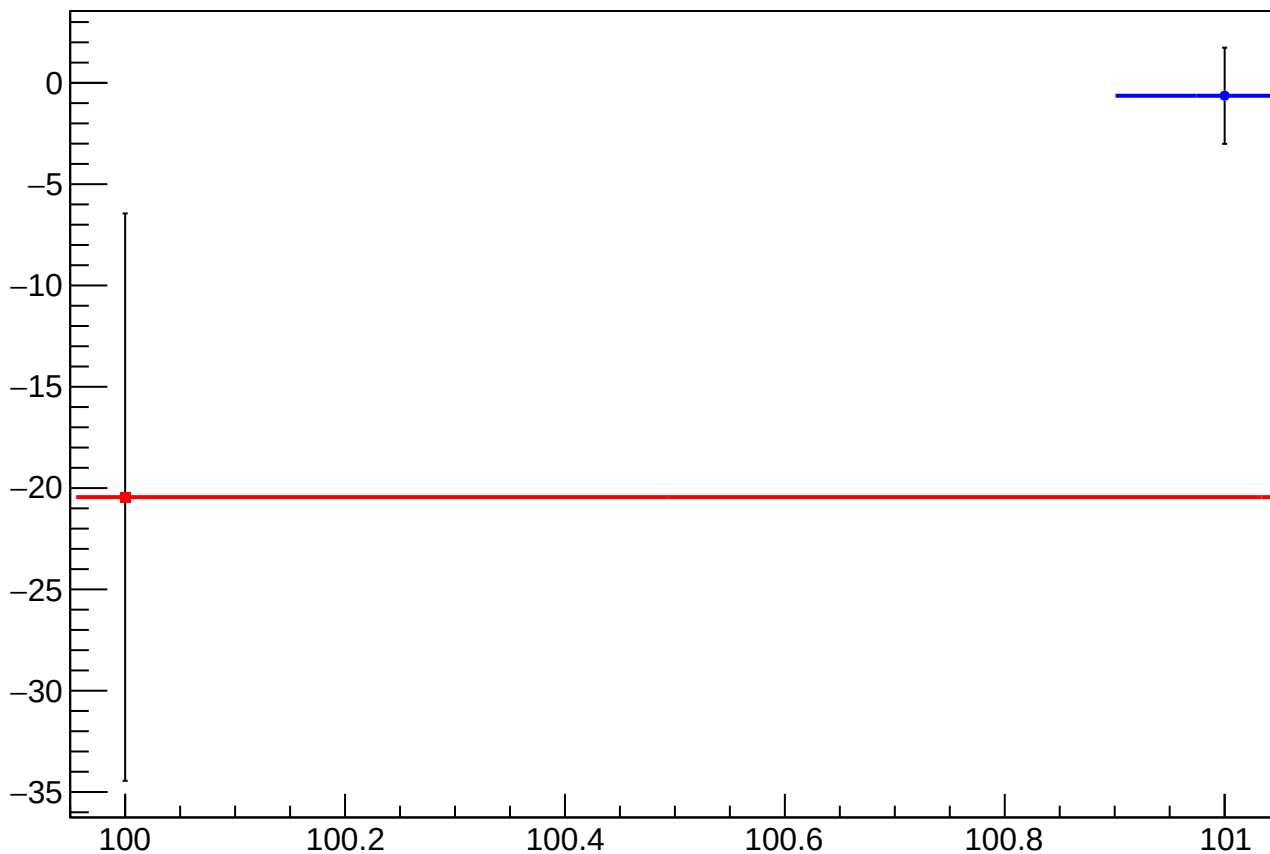
Right: -93.393 $\pm$ 1.752  $\chi^2$ /NDF: 3.0/1

In: -93.954 $\pm$ 1.783  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -93.393 $\pm$ 1.752  $\chi^2$ /NDF: 3.0/1

reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -0.637+/-2.374  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20.446+/-14.001  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

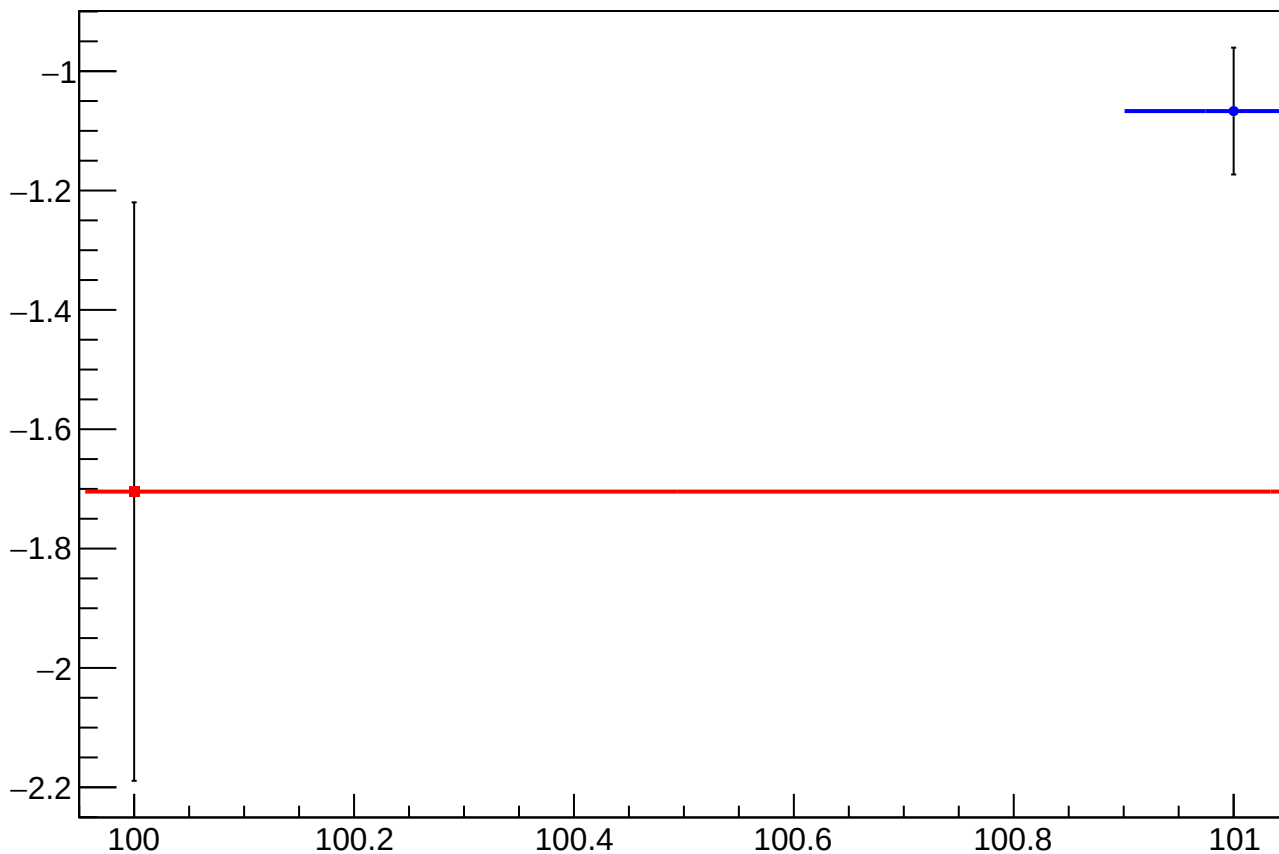
Right: -1.190+/-2.340  $\chi^2/\text{NDF}$ : 1.9/1

In: -0.637+/-2.374  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.190+/-2.340  $\chi^2/\text{NDF}$ : 1.9/1

reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -1.067+/-0.106  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.704+/-0.485  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

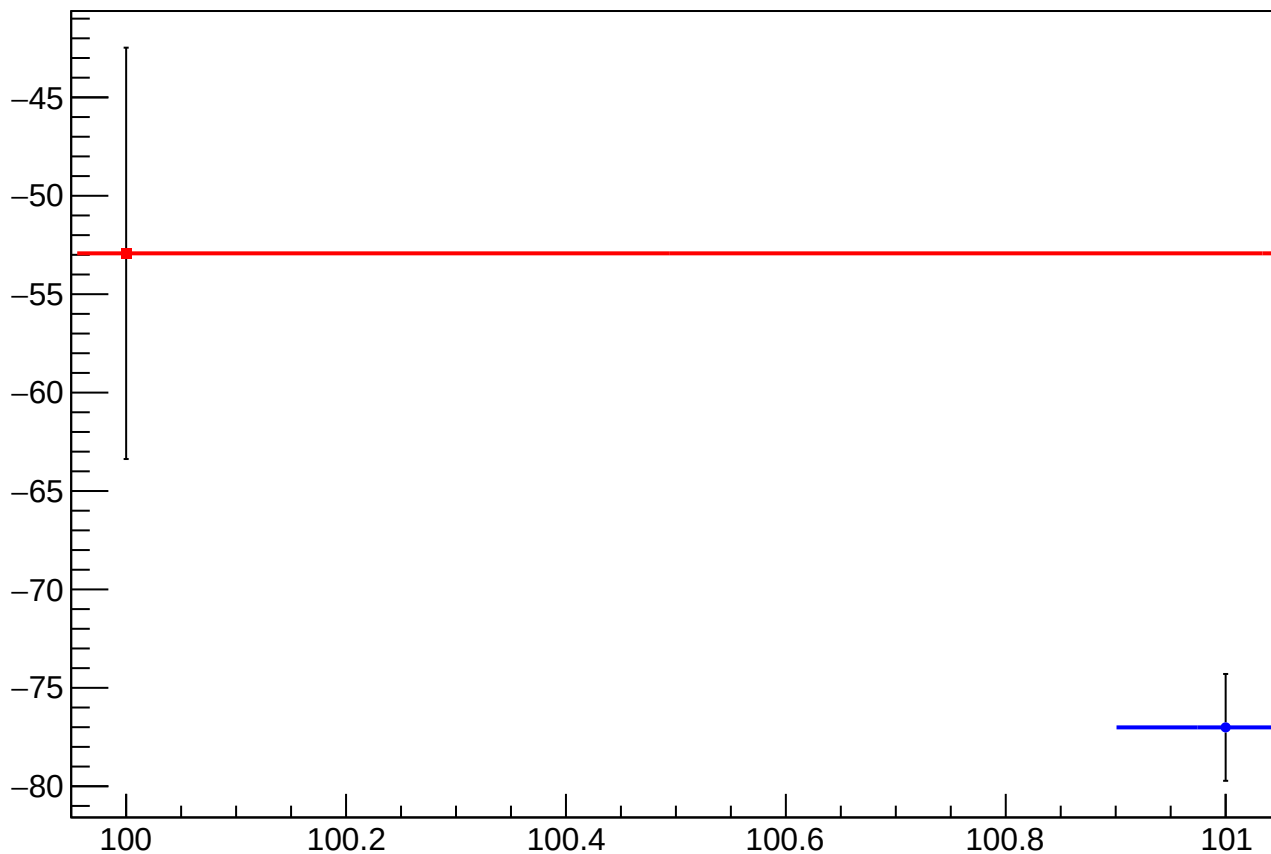
Right: -1.096+/-0.104  $\chi^2/\text{NDF}$ : 1.7/1

In: -1.067+/-0.106  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.096+/-0.104  $\chi^2/\text{NDF}$ : 1.7/1

reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -77.010 $\pm$ 2.714  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -52.925 $\pm$ 10.450  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

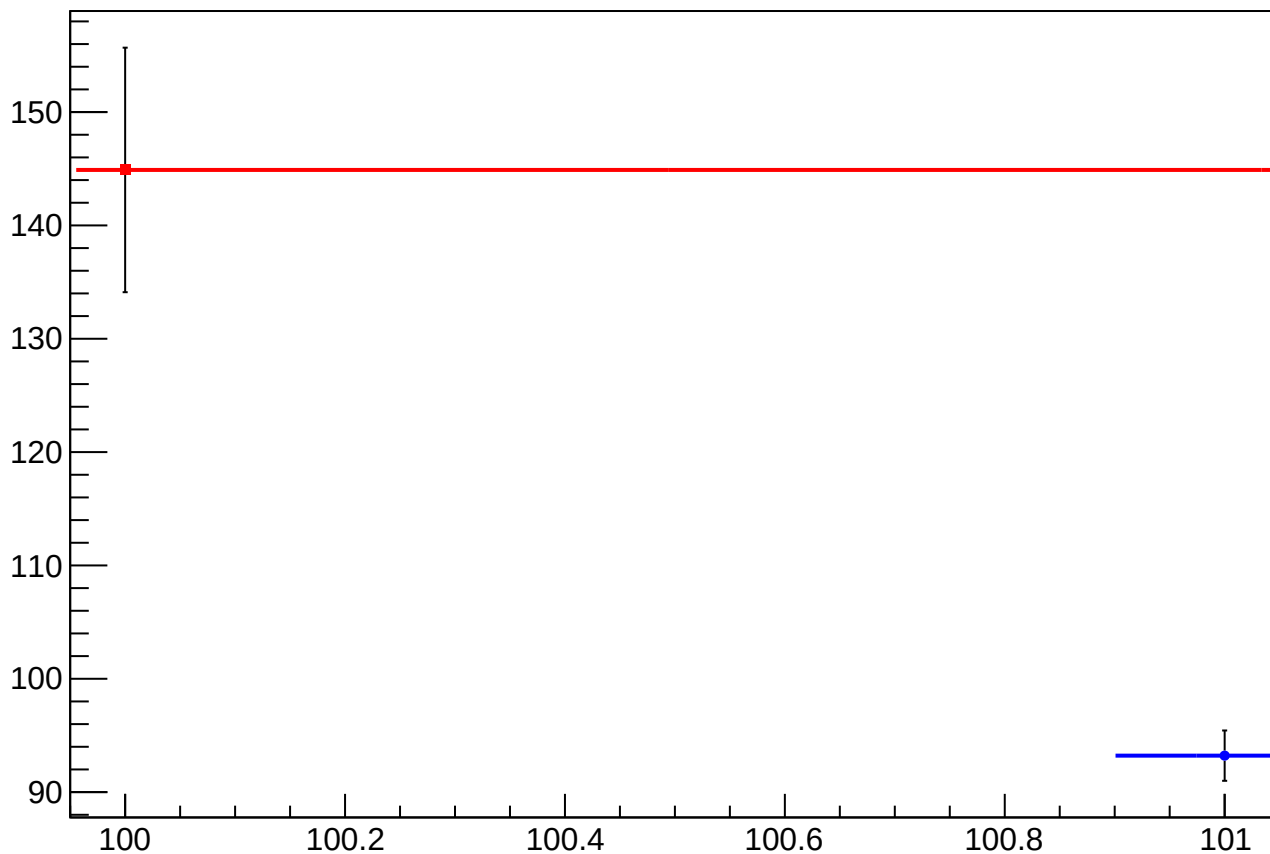
Right: -75.488 $\pm$ 2.627  $\chi^2$ /NDF: 5.0/1

In: -77.010 $\pm$ 2.714  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -75.488 $\pm$ 2.627  $\chi^2$ /NDF: 5.0/1

reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 93.218+/-2.220  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 144.895+/-10.787  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

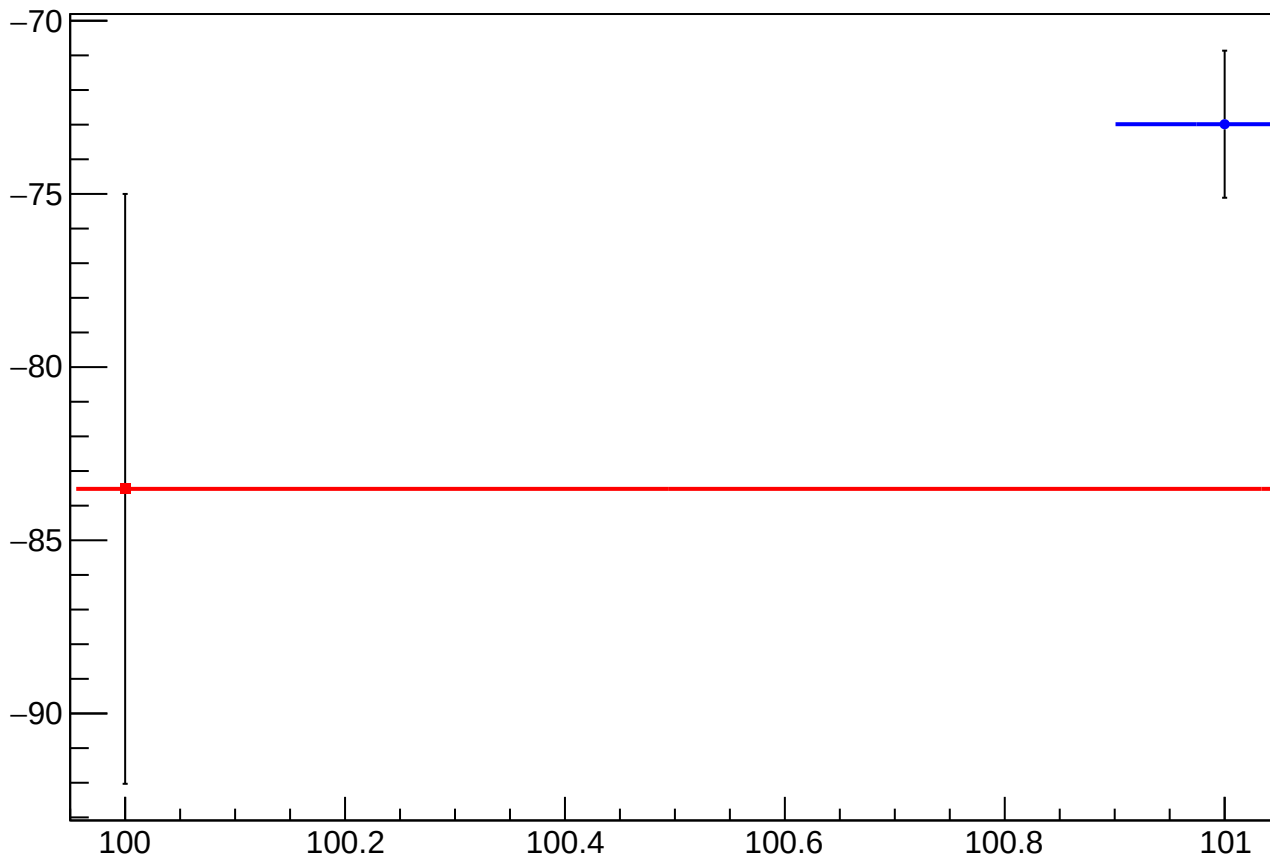
Right: 95.317+/-2.174  $\chi^2/\text{NDF}$ : 22.0/1

In: 93.218+/-2.220  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.317+/-2.174  $\chi^2/\text{NDF}$ : 22.0/1

reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -72.987 $\pm$ 2.123  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.515 $\pm$ 8.515  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -73.603 $\pm$ 2.060  $\chi^2$ /NDF: 1.4/1

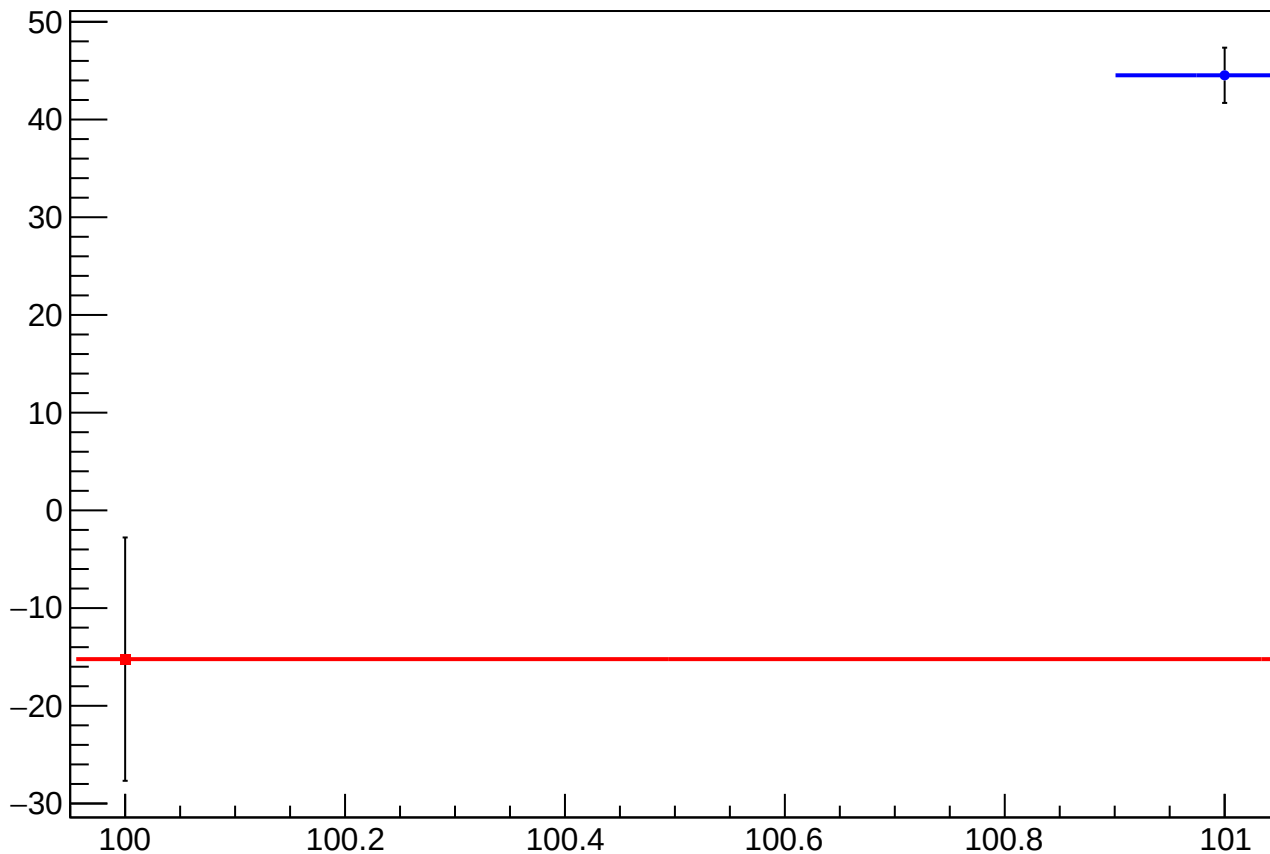
In: -72.987 $\pm$ 2.123  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -73.603 $\pm$ 2.060  $\chi^2$ /NDF: 1.4/1



reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 44.527+/-2.828  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.225+/-12.451  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

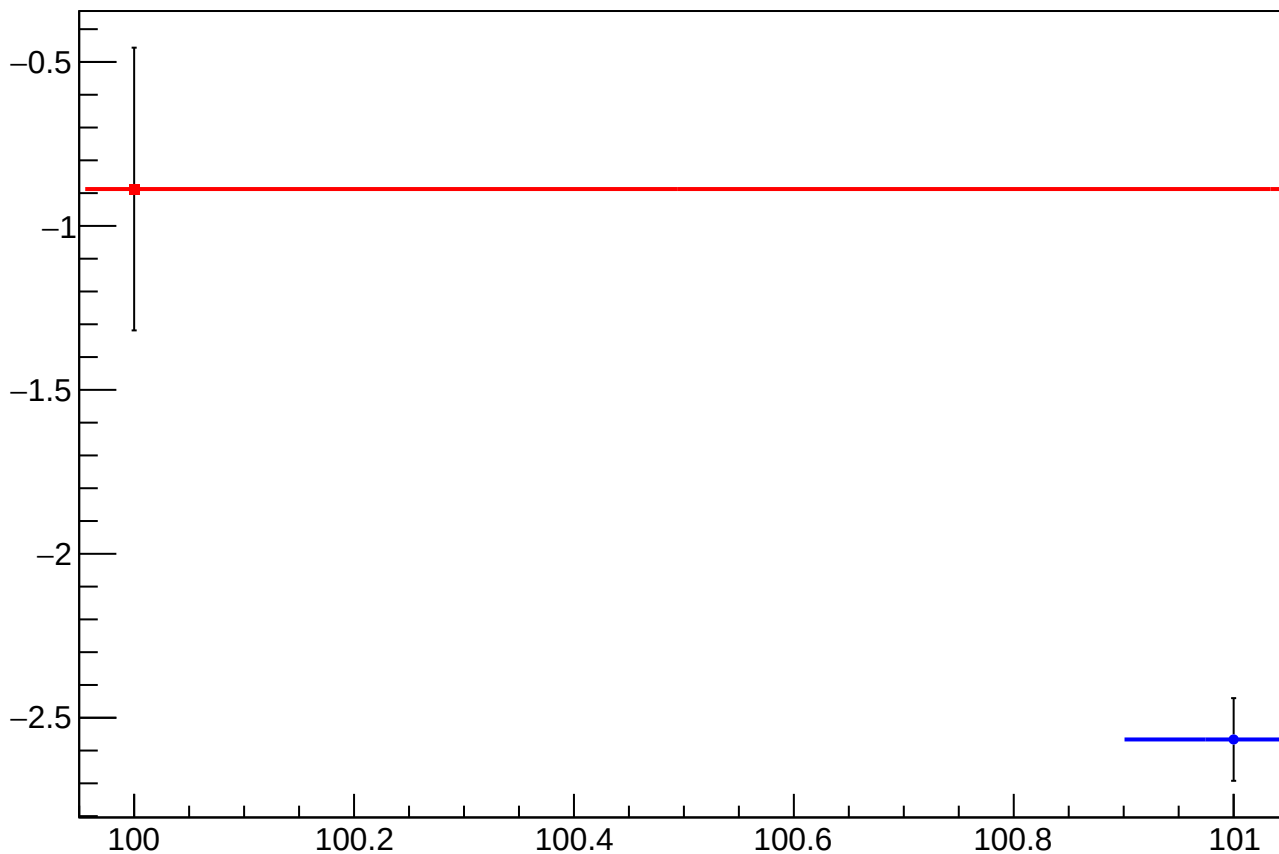
Right: 41.596+/-2.757  $\chi^2$ /NDF: 21.9/1

In: 44.527+/-2.828  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 41.596+/-2.757  $\chi^2$ /NDF: 21.9/1

reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -2.566 $\pm$ 0.126  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.888 $\pm$ 0.431  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

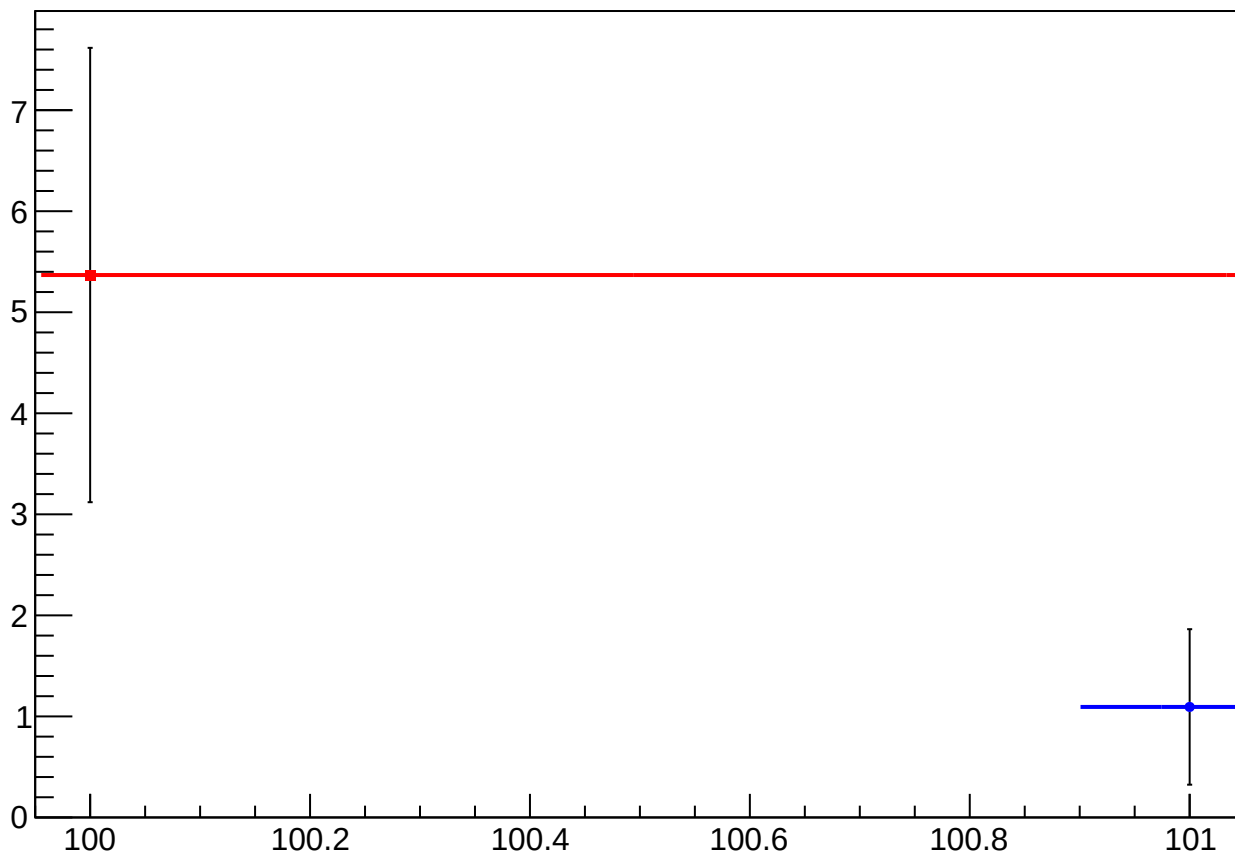
Right: -2.434 $\pm$ 0.121  $\chi^2/\text{NDF}$ : 14.0/1

In: -2.566 $\pm$ 0.126  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.434 $\pm$ 0.121  $\chi^2/\text{NDF}$ : 14.0/1

reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 1.094 $\pm$ 0.769  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.368 $\pm$ 2.248  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

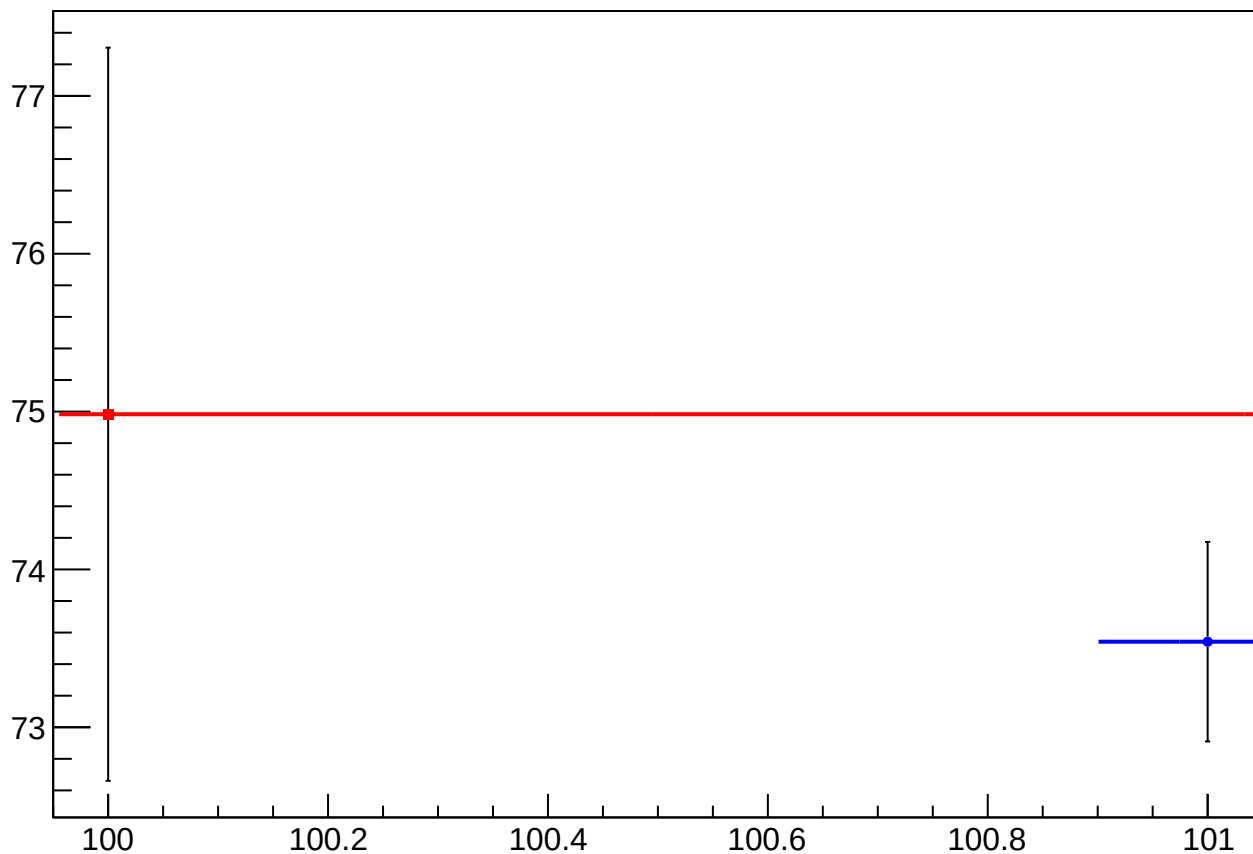
Right: 1.542 $\pm$ 0.728  $\chi^2$ /NDF: 3.2/1

In: 1.094 $\pm$ 0.769  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.542 $\pm$ 0.728  $\chi^2$ /NDF: 3.2/1

reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 73.542+/-0.632  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.983+/-2.322  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

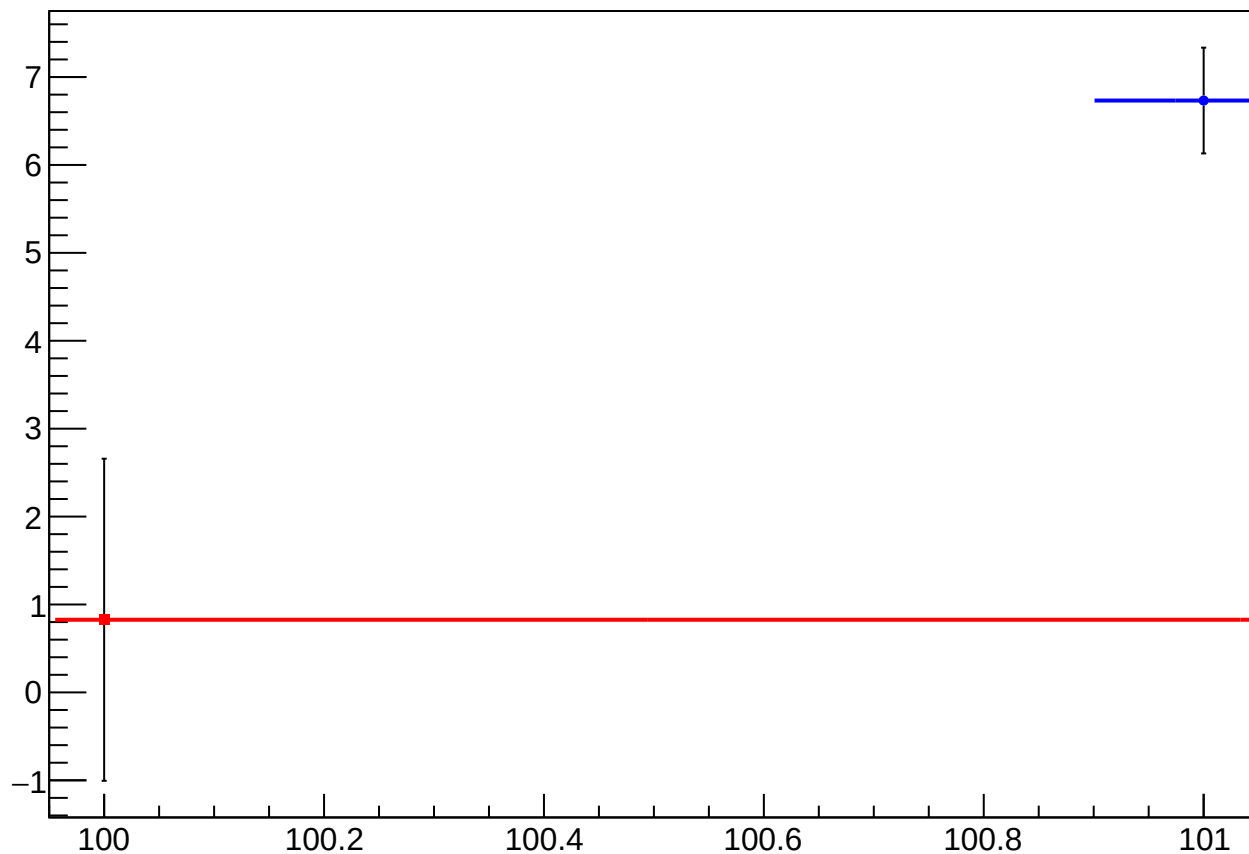
Right: 73.641+/-0.610  $\chi^2/\text{NDF}$ : 0.4/1

In: 73.542+/-0.632  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 73.641+/-0.610  $\chi^2/\text{NDF}$ : 0.4/1

reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 6.733+/-0.602  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.826+/-1.832  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

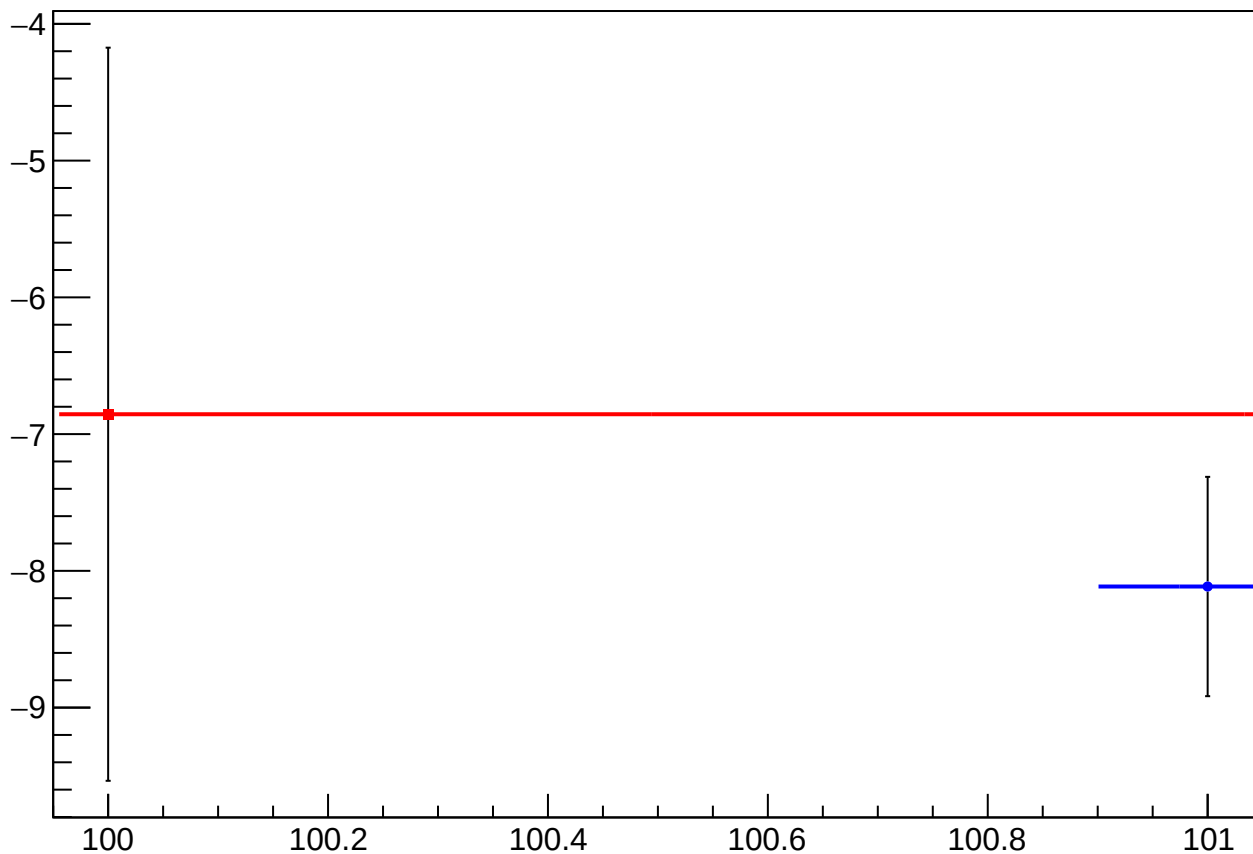
Right: 6.158+/-0.571  $\chi^2/\text{NDF}$ : 9.4/1

In: 6.733+/-0.602  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.158+/-0.571  $\chi^2/\text{NDF}$ : 9.4/1

reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -8.115+/-0.802  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.855+/-2.681  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

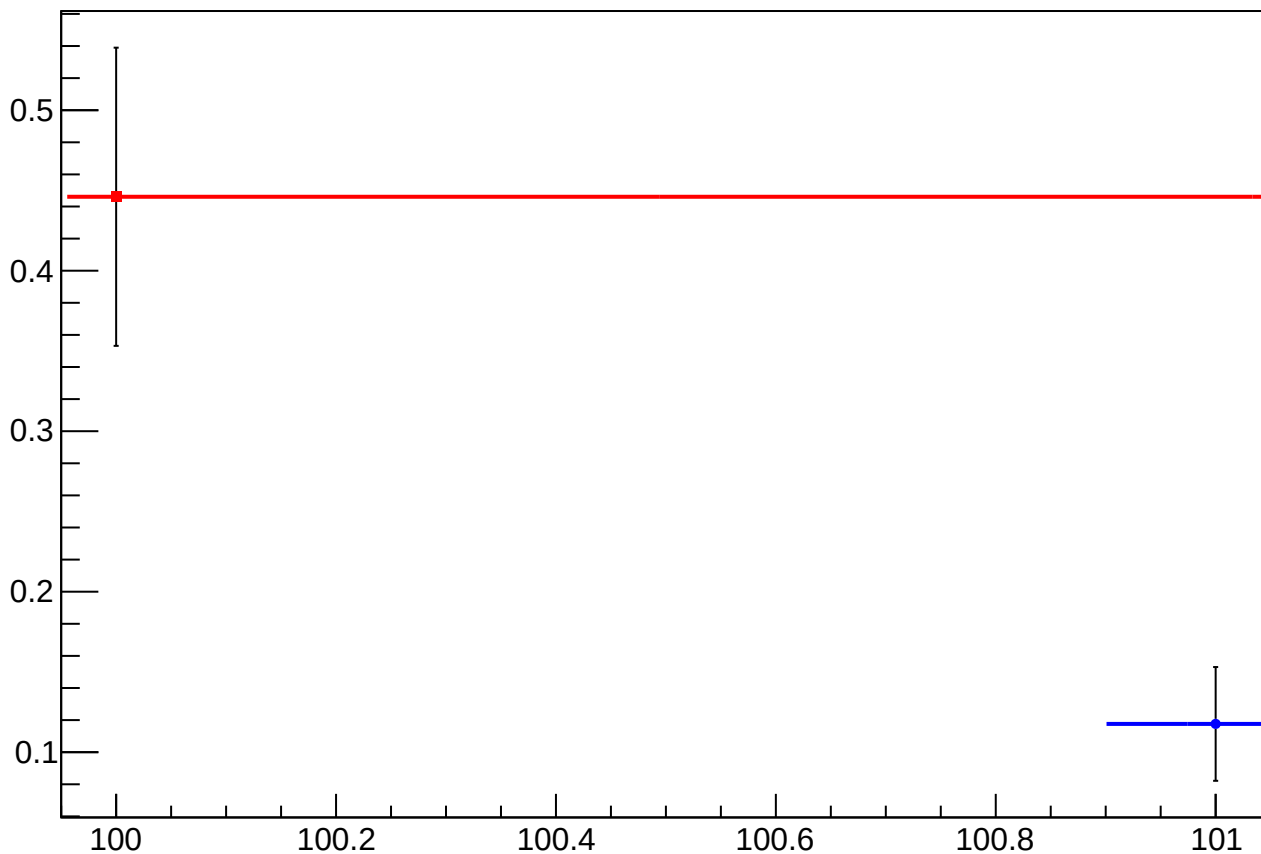
Right: -8.011+/-0.768  $\chi^2/\text{NDF}$ : 0.2/1

In: -8.115+/-0.802  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.011+/-0.768  $\chi^2/\text{NDF}$ : 0.2/1

reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.118 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.446 $\pm$ 0.093  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

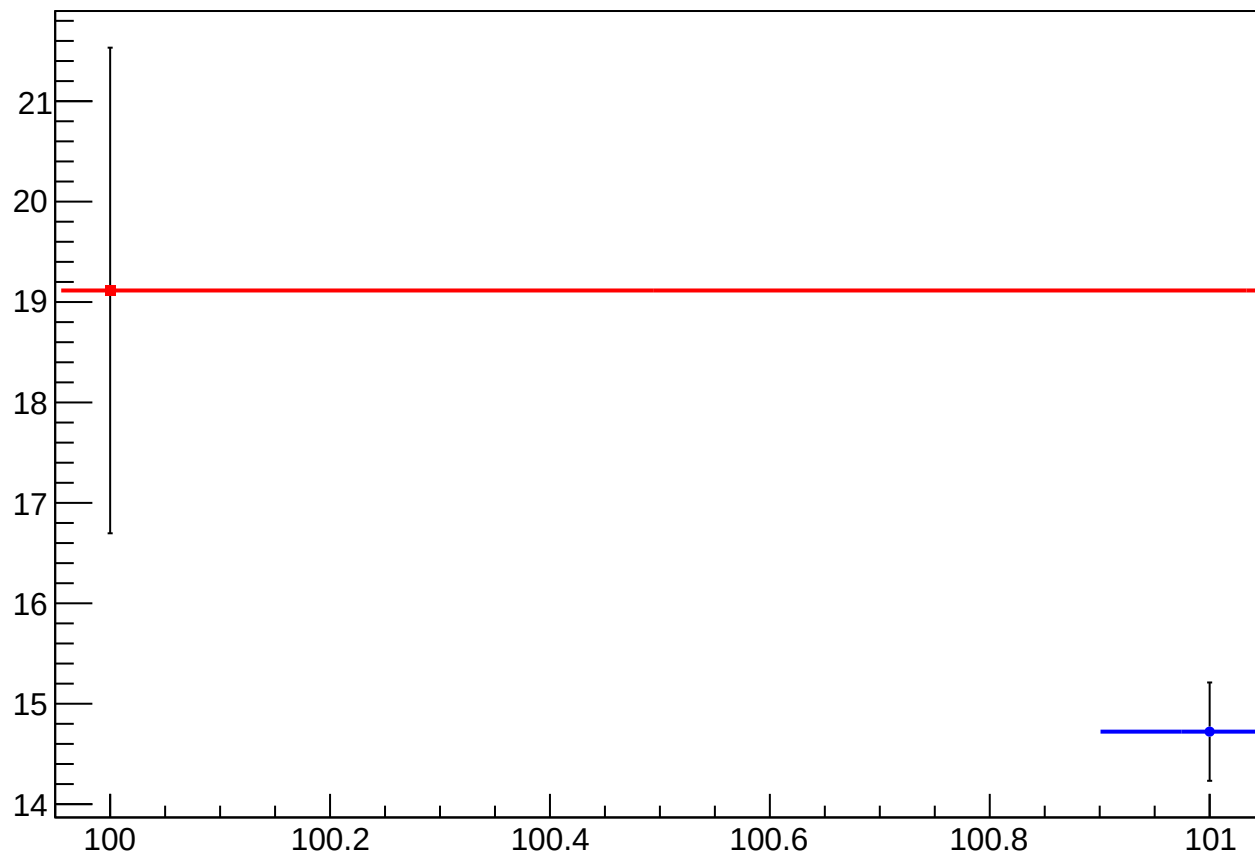
Right: 0.159 $\pm$ 0.033  $\chi^2$ /NDF: 10.9/1

In: 0.118 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.159 $\pm$ 0.033  $\chi^2$ /NDF: 10.9/1

reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 14.722+/-0.490  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.115+/-2.418  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 14.895+/-0.480  $\chi^2$ /NDF: 3.2/1

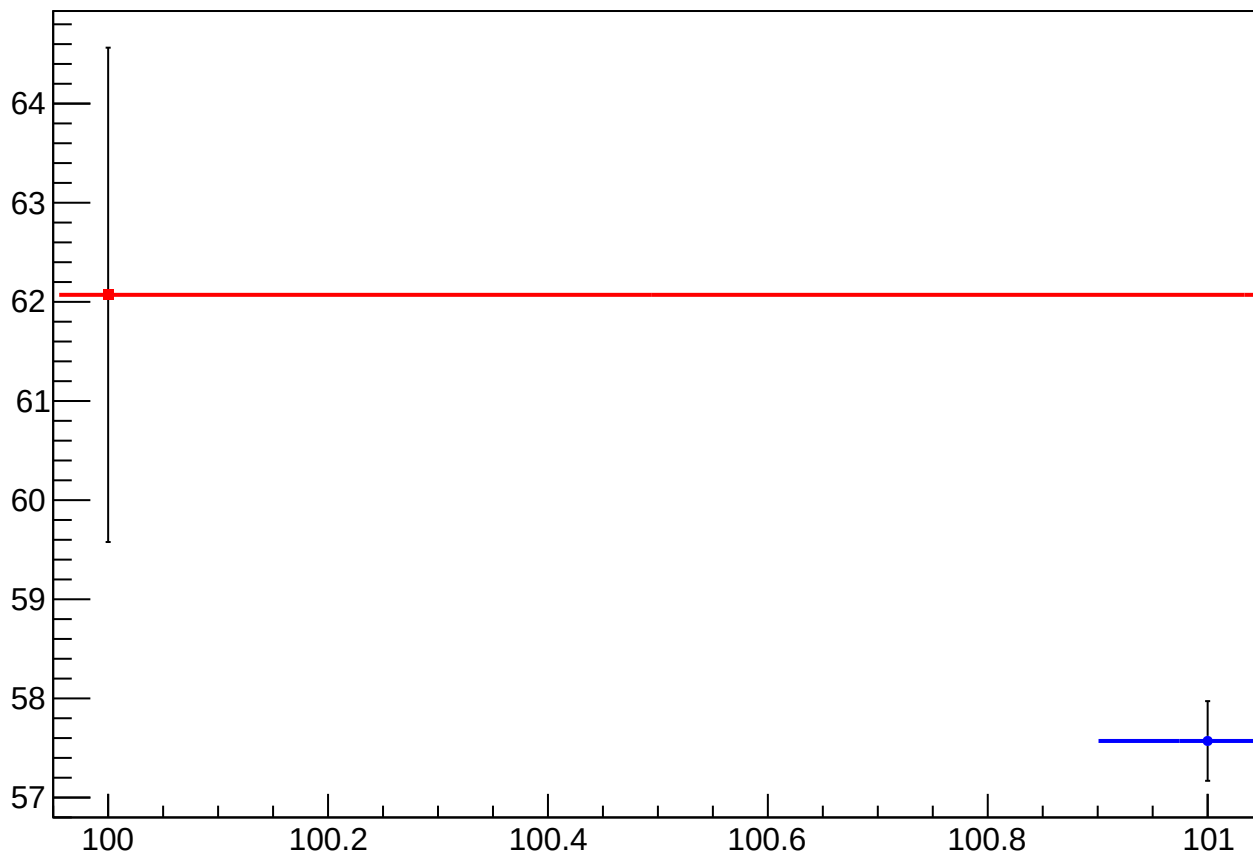
In: 14.722+/-0.490  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 14.895+/-0.480  $\chi^2$ /NDF: 3.2/1



reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 57.571 $\pm$ 0.402  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 62.071 $\pm$ 2.493  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

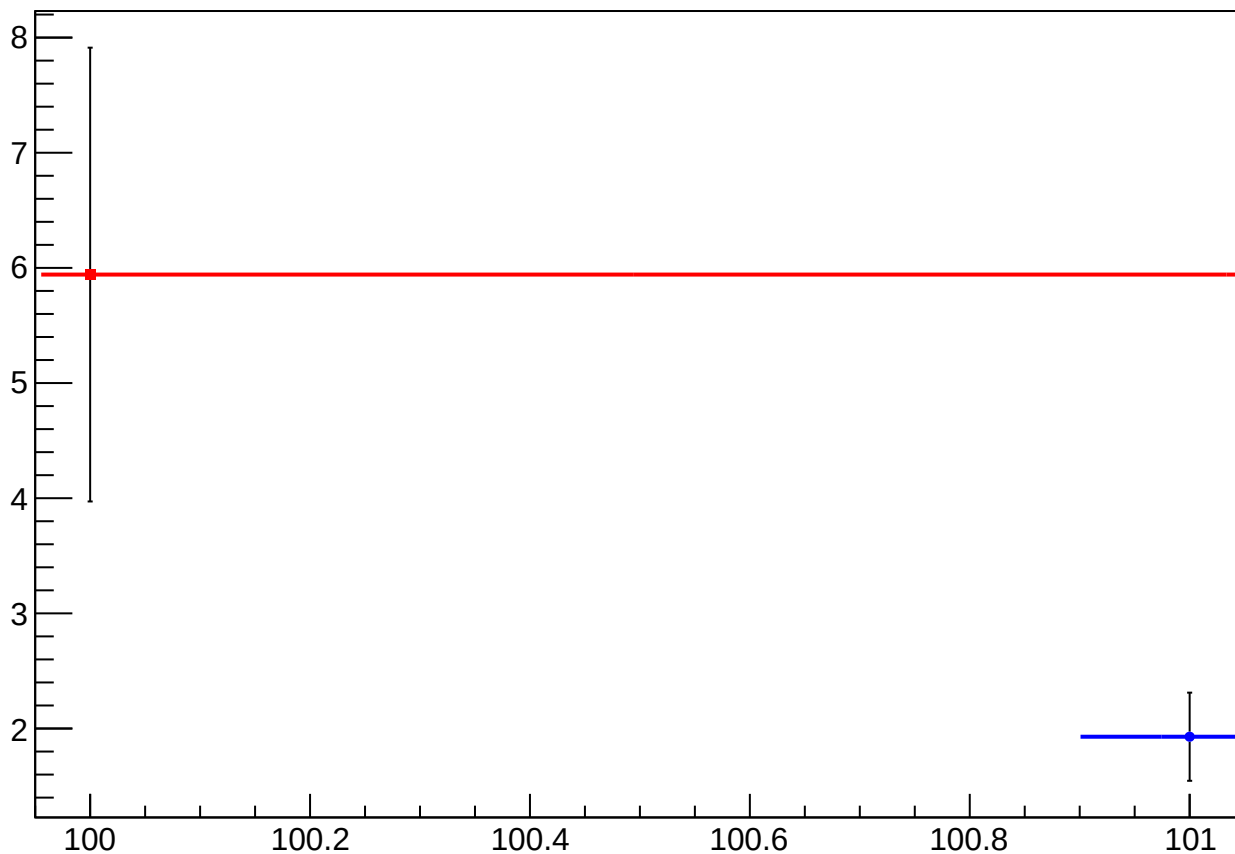
Right: 57.685 $\pm$ 0.397  $\chi^2$ /NDF: 3.2/1

In: 57.571 $\pm$ 0.402  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 57.685 $\pm$ 0.397  $\chi^2$ /NDF: 3.2/1

reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 1.929+/-0.383  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 5.942+/-1.970  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

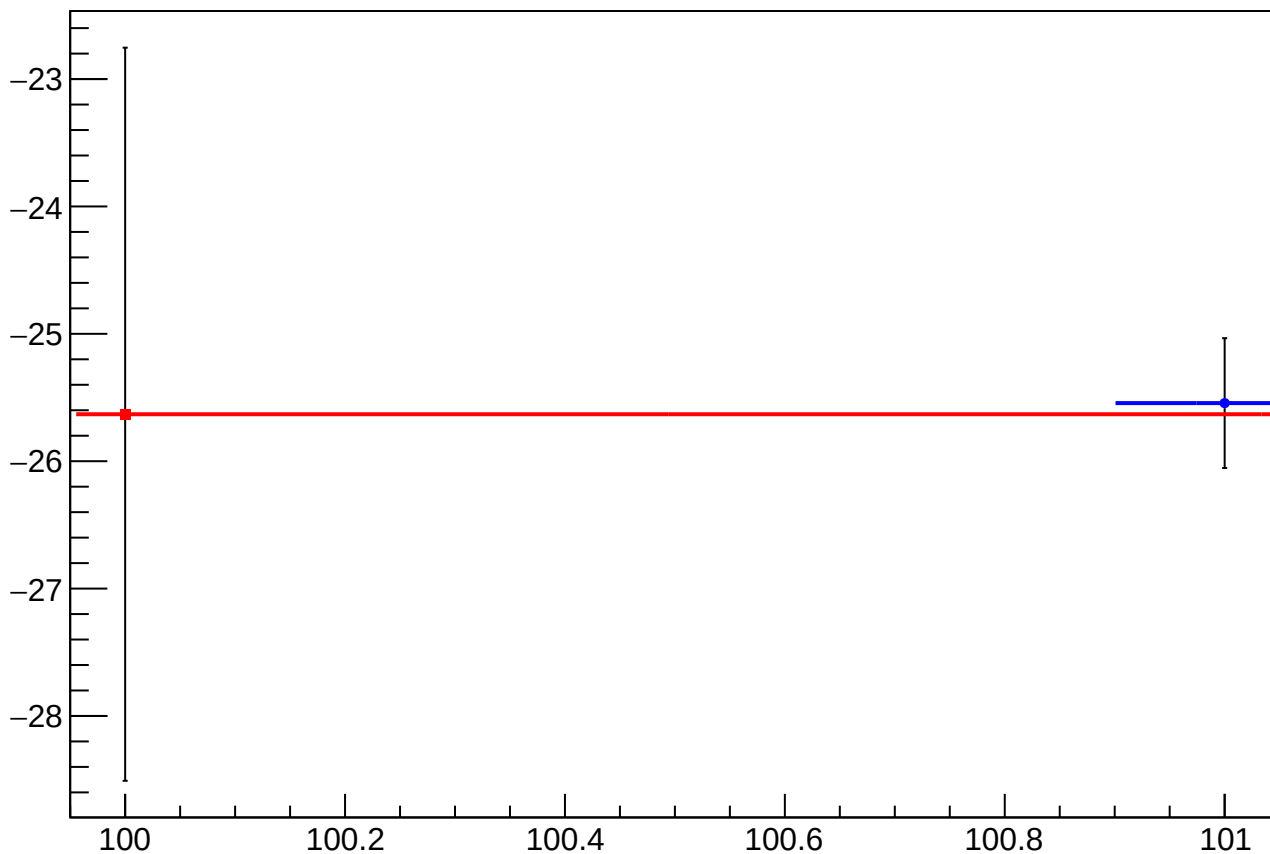
Right: 2.075+/-0.376  $\chi^2/\text{NDF}$ : 4.0/1

In: 1.929+/-0.383  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.075+/-0.376  $\chi^2/\text{NDF}$ : 4.0/1

reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -25.544 $\pm$ 0.510  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25.631 $\pm$ 2.878  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

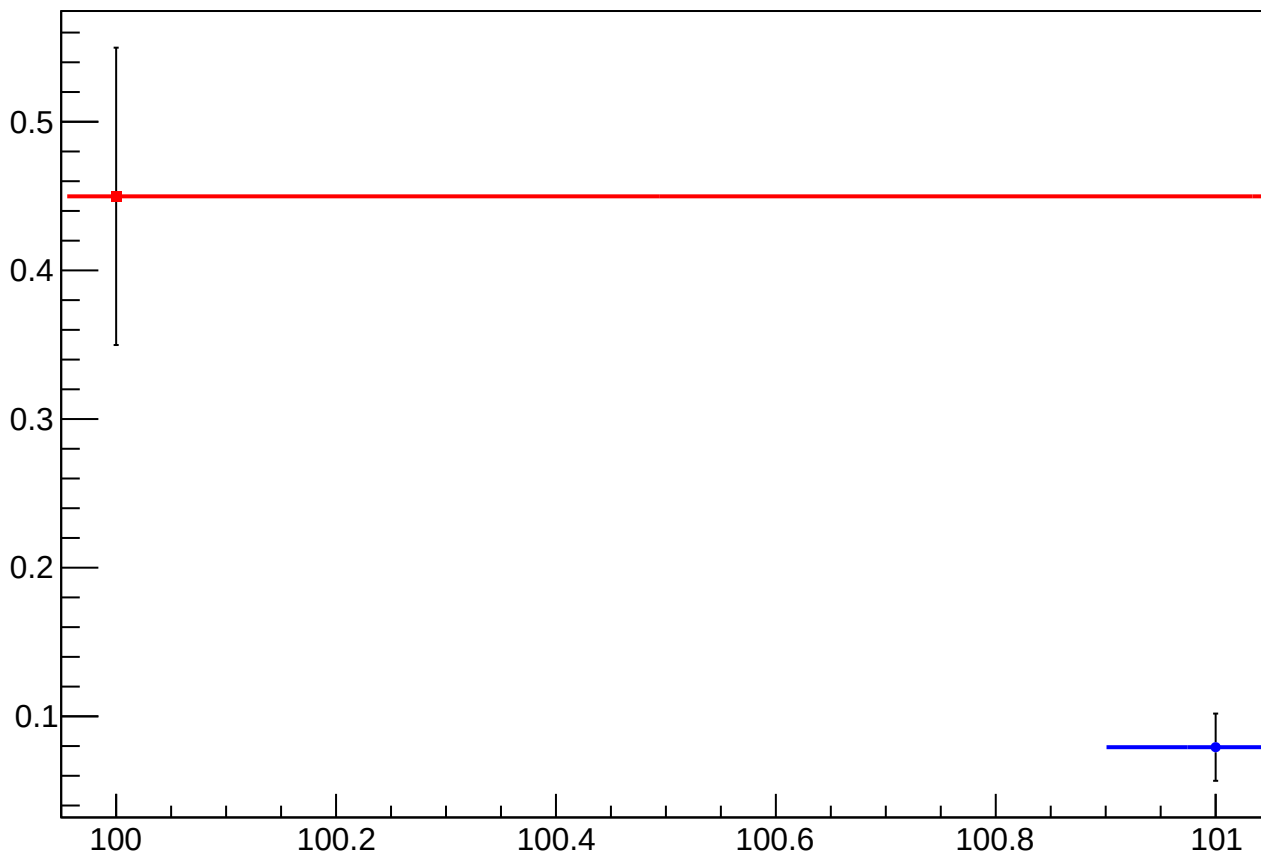
Right: -25.546 $\pm$ 0.502  $\chi^2/\text{NDF}$ : 0.0/1

In: -25.544 $\pm$ 0.510  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -25.546 $\pm$ 0.502  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.079 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.450 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

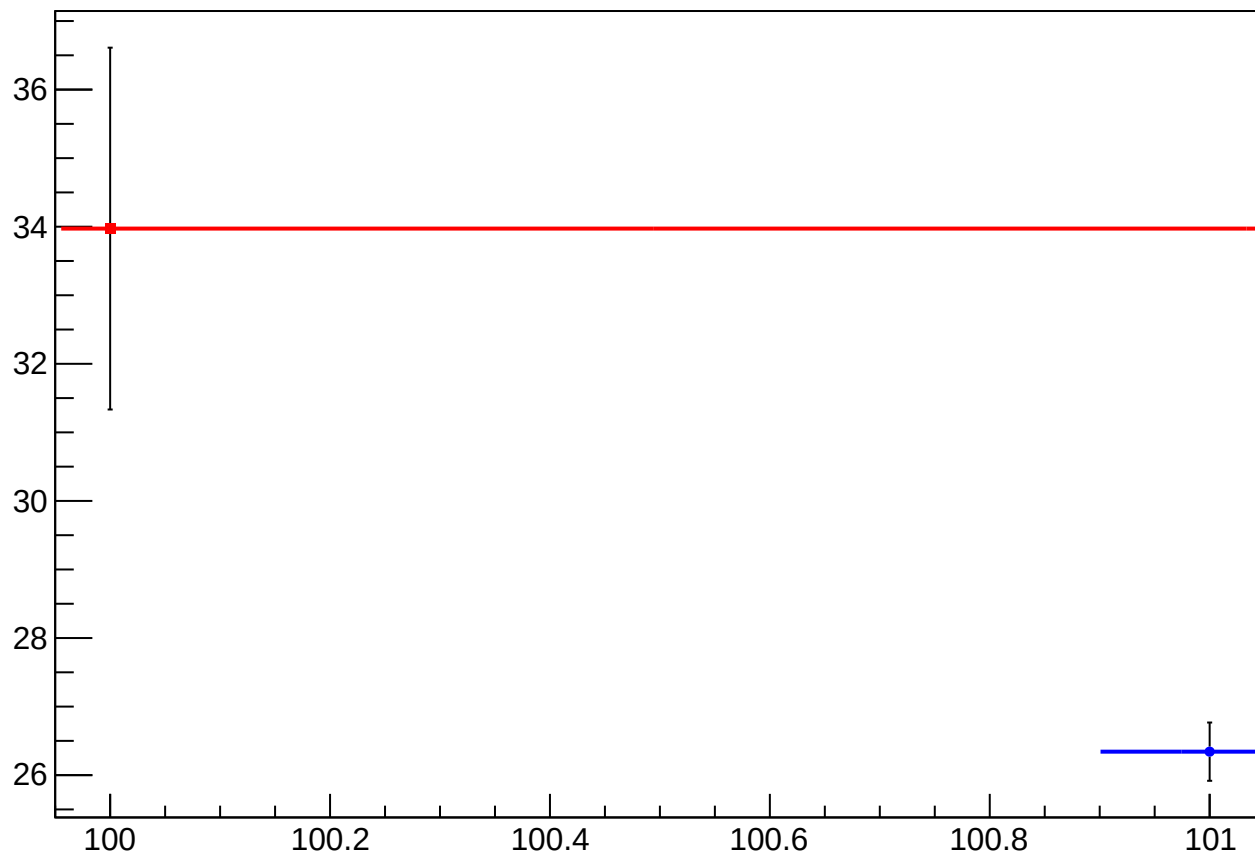
Right: 0.097 $\pm$ 0.022  $\chi^2$ /NDF: 13.1/1

In: 0.079 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.097 $\pm$ 0.022  $\chi^2$ /NDF: 13.1/1

reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 26.343+/-0.425  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 33.972+/-2.639  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

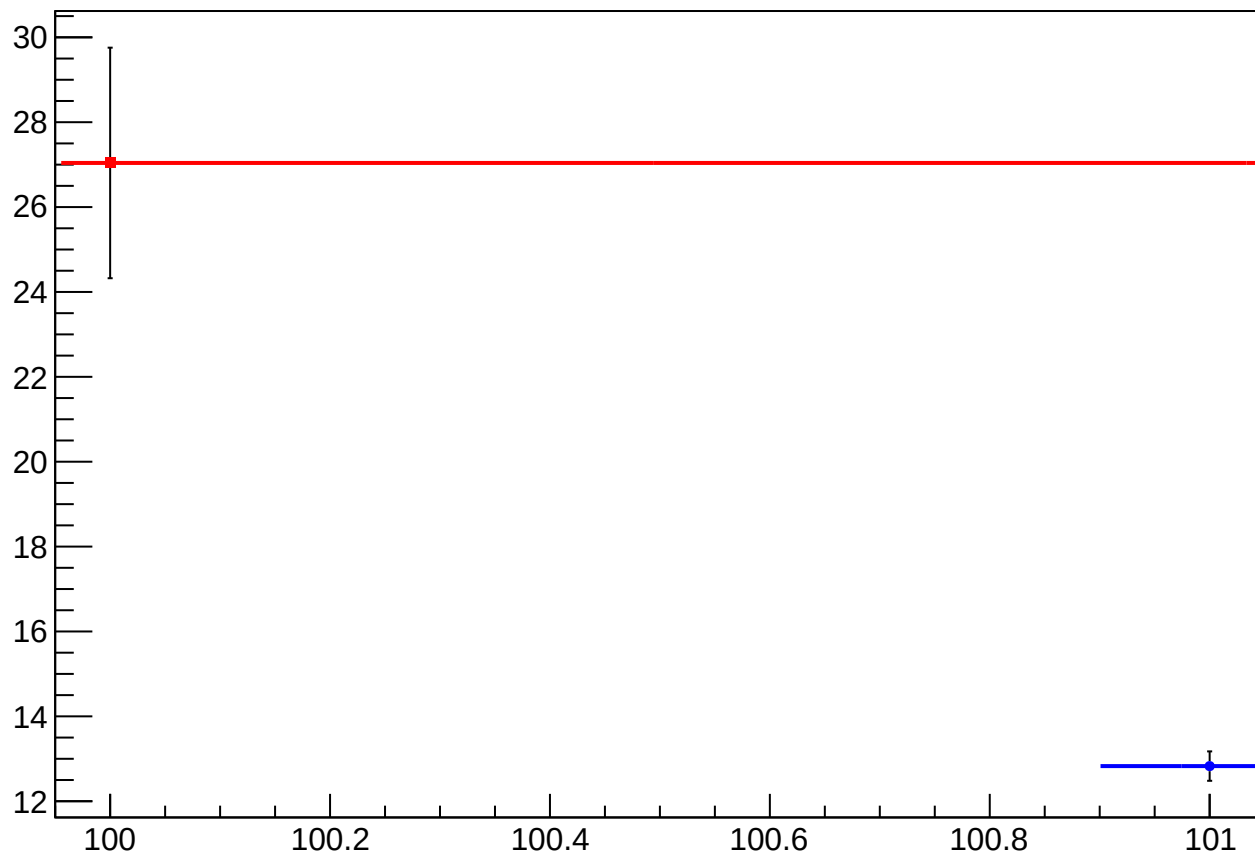
Right: 26.535+/-0.420  $\chi^2/\text{NDF}$ : 8.1/1

In: 26.343+/-0.425  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 26.535+/-0.420  $\chi^2/\text{NDF}$ : 8.1/1

reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 12.828+/-0.346  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 27.040+/-2.716  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

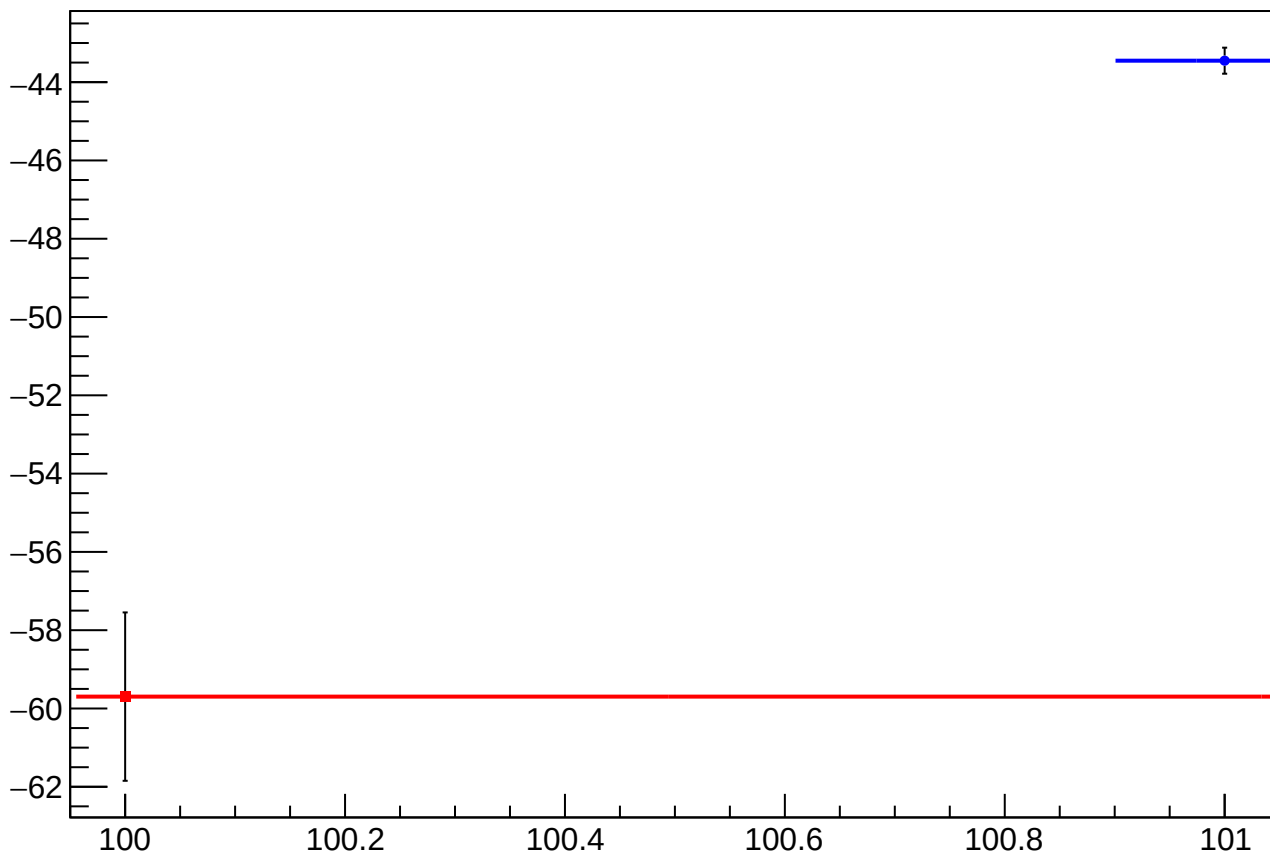
Right: 13.055+/-0.344  $\chi^2/\text{NDF}$ : 26.9/1

In: 12.828+/-0.346  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.055+/-0.344  $\chi^2/\text{NDF}$ : 26.9/1

reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -43.452+/-0.333  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -59.697+/-2.151  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

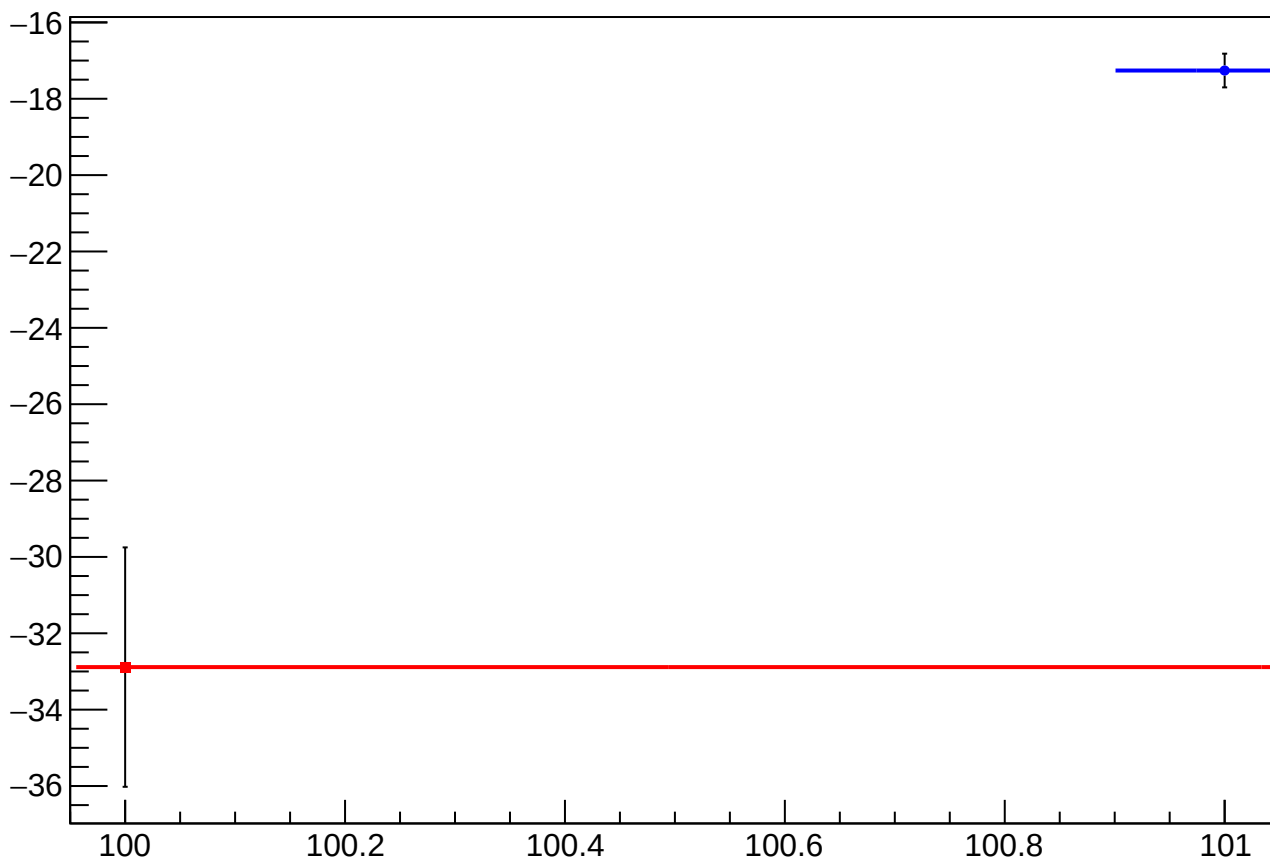
Right: -43.831+/-0.329  $\chi^2$ /NDF: 55.7/1

In: -43.452+/-0.333  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -43.831+/-0.329  $\chi^2$ /NDF: 55.7/1

reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -17.261+/-0.442  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.886+/-3.135  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -17.564+/-0.437  $\chi^2/\text{NDF}$ : 24.4/1

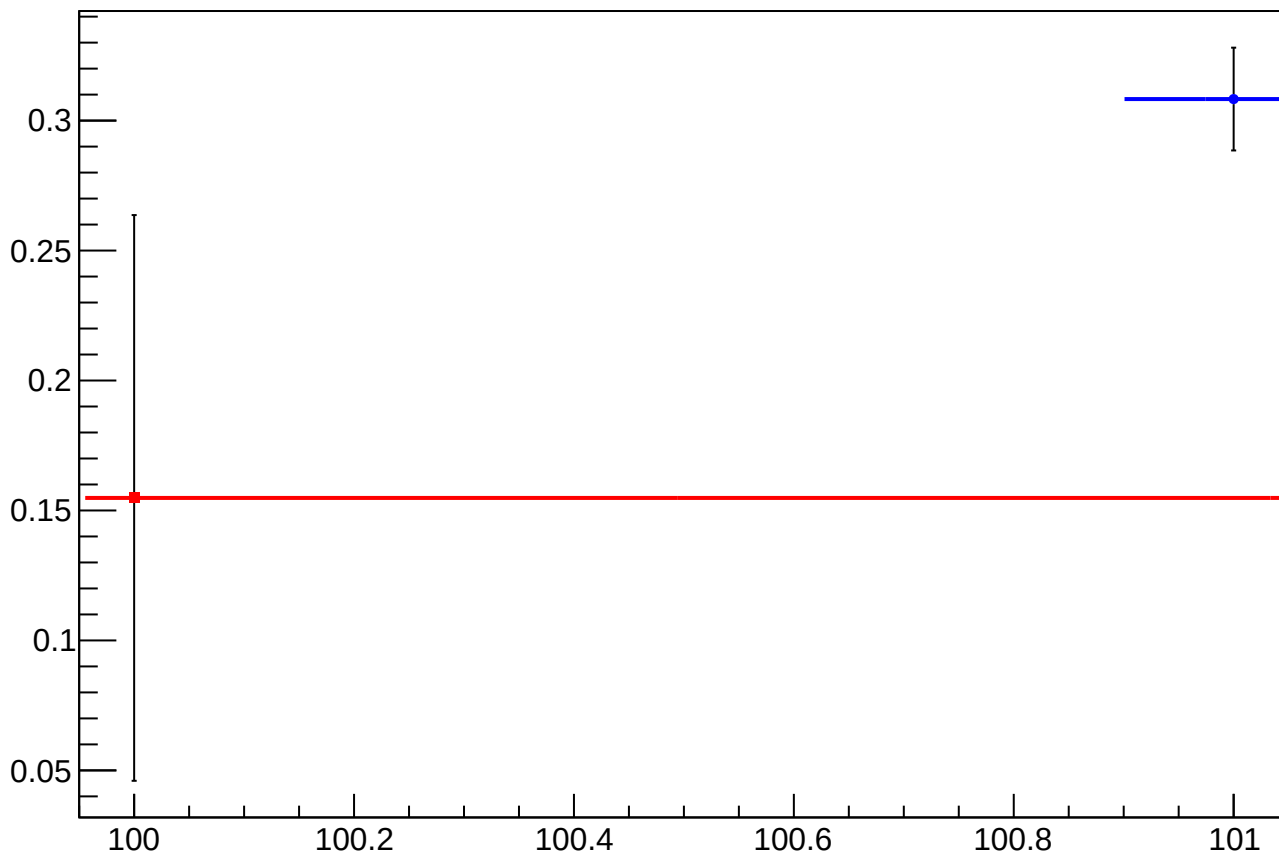
In: -17.261+/-0.442  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -17.564+/-0.437  $\chi^2/\text{NDF}$ : 24.4/1



reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.308 $\pm$ 0.020  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.155 $\pm$ 0.109  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

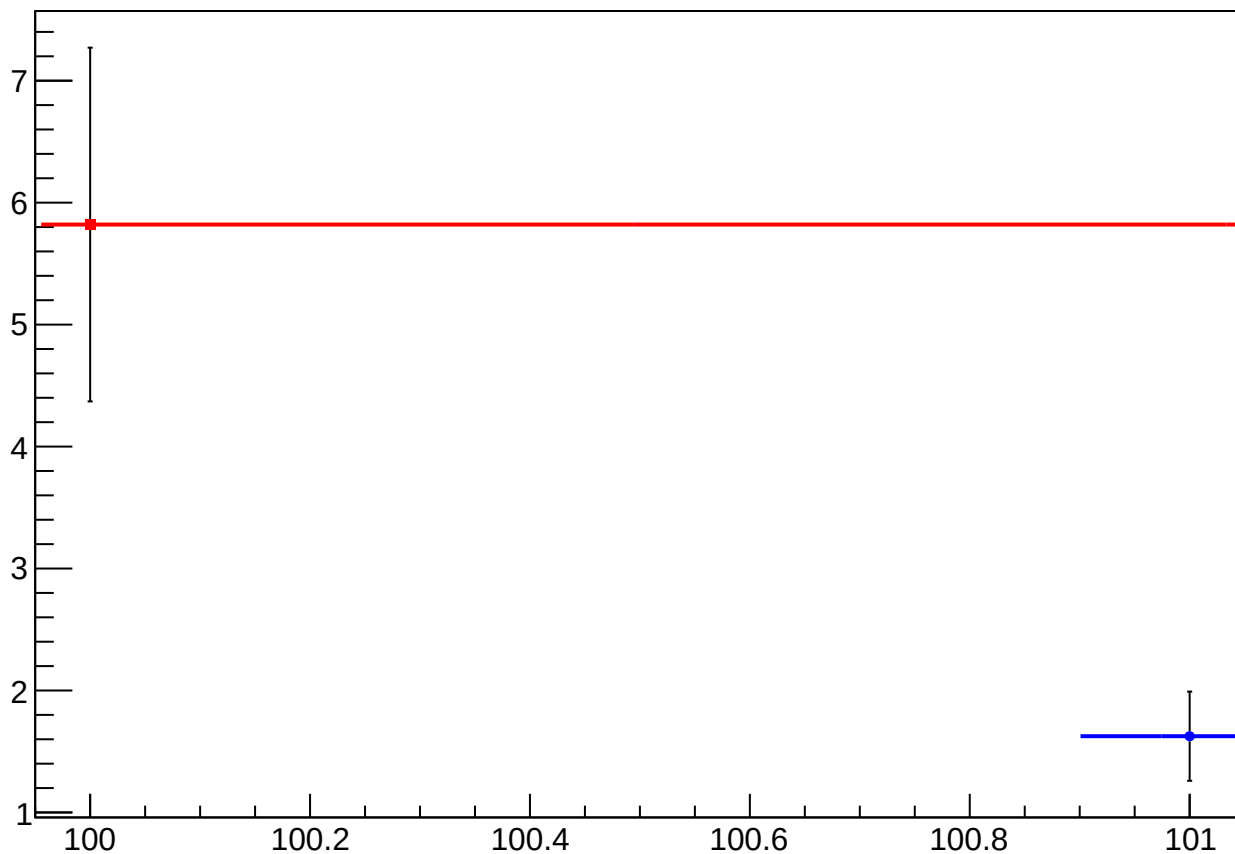
Right: 0.303 $\pm$ 0.019  $\chi^2$ /NDF: 1.9/1

In: 0.308 $\pm$ 0.020  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.303 $\pm$ 0.019  $\chi^2$ /NDF: 1.9/1

reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 1.625 $\pm$ 0.366  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.821 $\pm$ 1.450  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

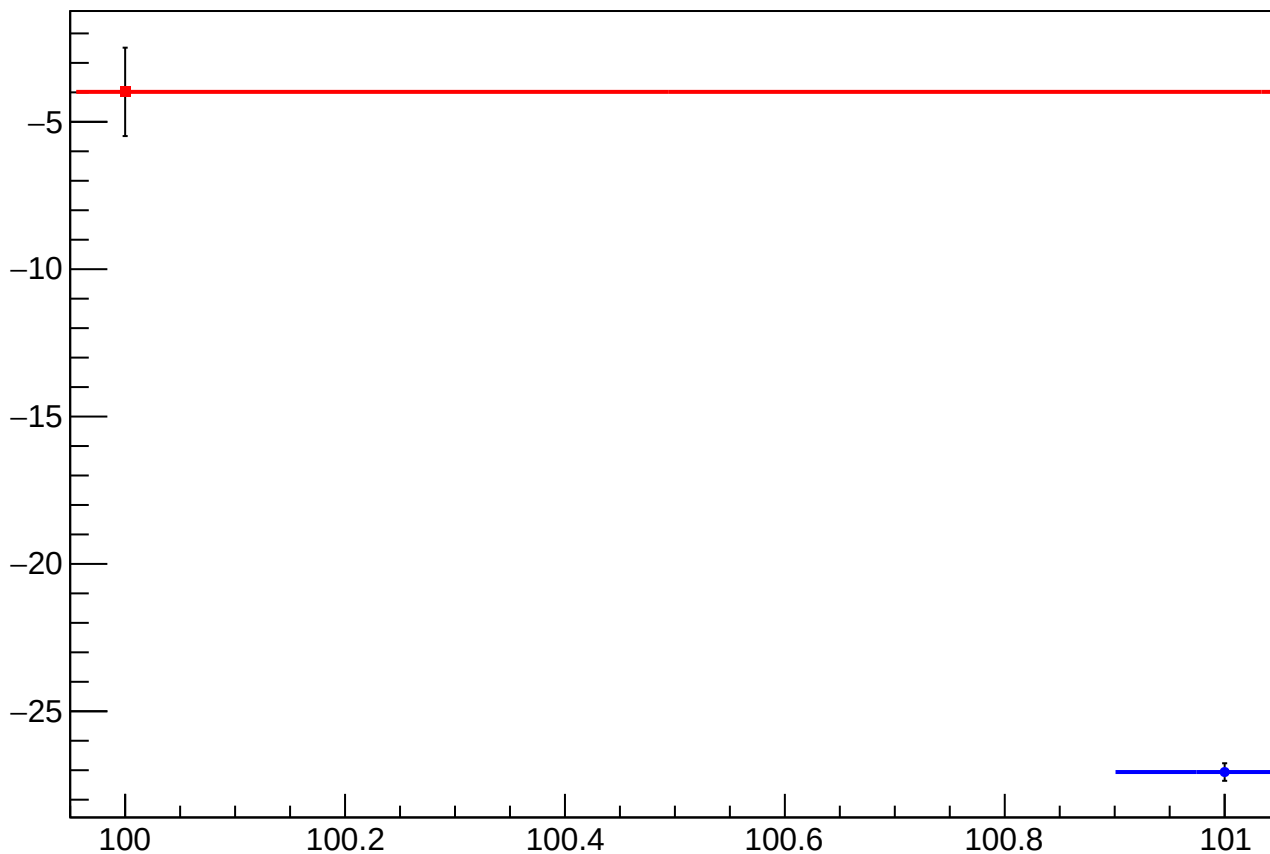
Right: 1.876 $\pm$ 0.355  $\chi^2$ /NDF: 7.9/1

In: 1.625 $\pm$ 0.366  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.876 $\pm$ 0.355  $\chi^2$ /NDF: 7.9/1

reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-27.061 \pm 0.298$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-3.983 \pm 1.500$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

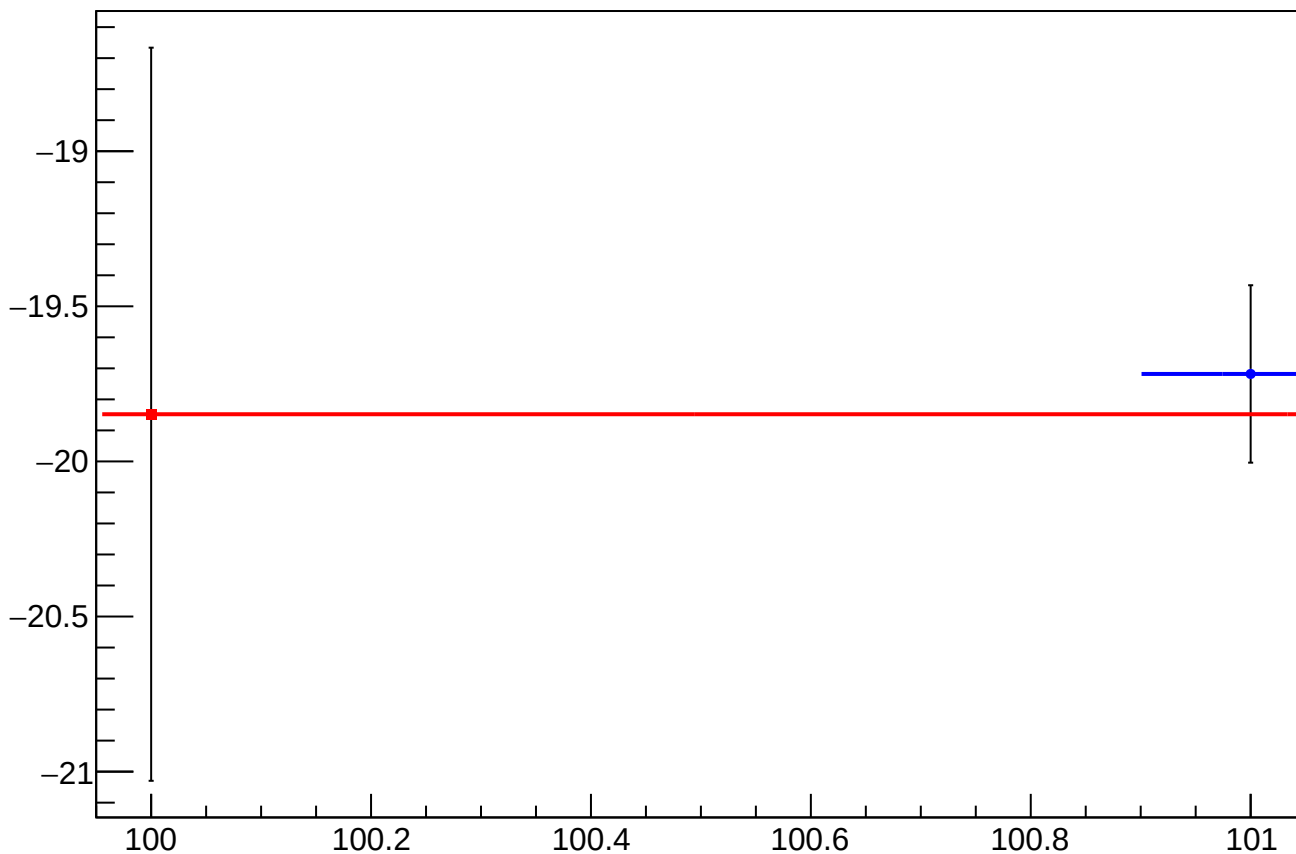
Right:  $-26.187 \pm 0.292$   $\chi^2/\text{NDF}: 227.9/1$

In:  $-27.061 \pm 0.298$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-26.187 \pm 0.292$   $\chi^2/\text{NDF}: 227.9/1$

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -19.718 $\pm$ 0.286  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -19.848 $\pm$ 1.182  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

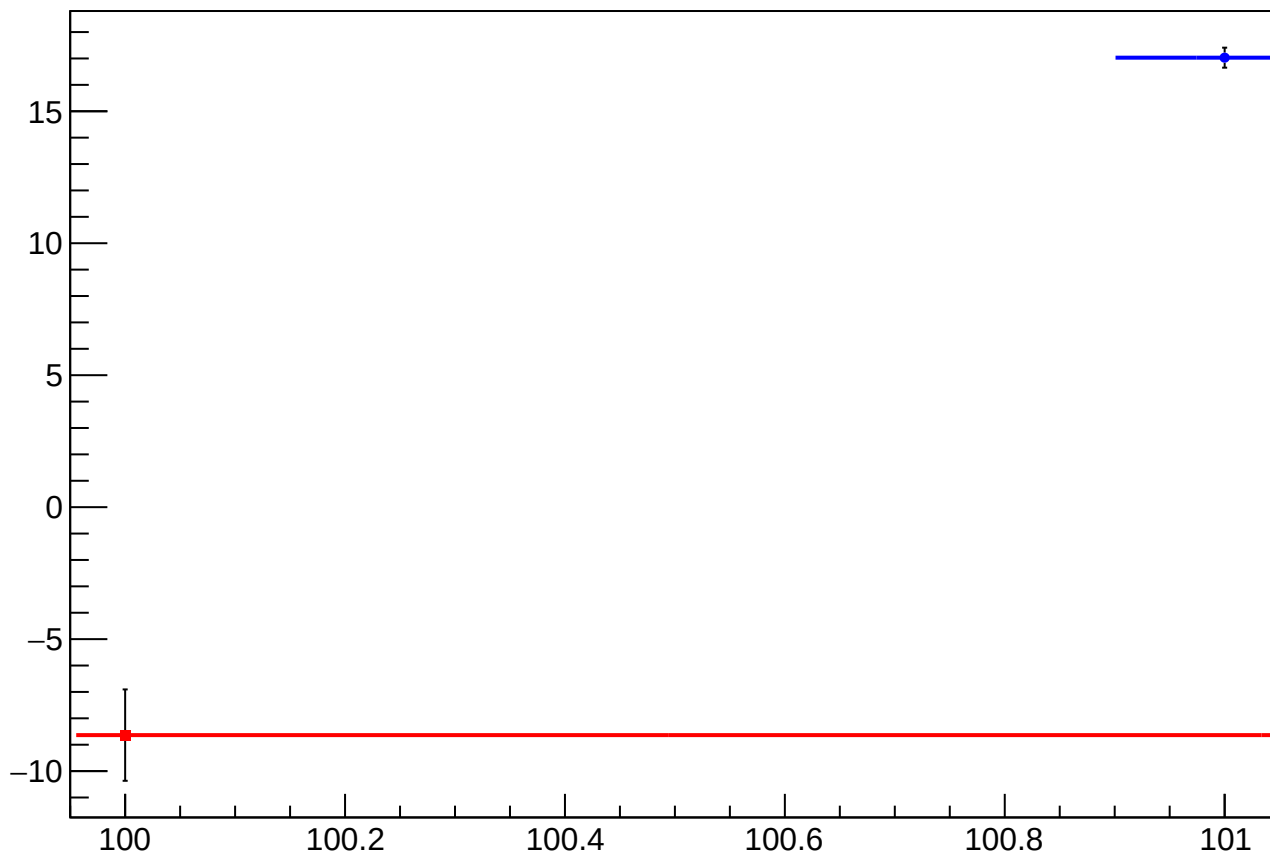
Right: -19.725 $\pm$ 0.278  $\chi^2$ /NDF: 0.0/1

In: -19.718 $\pm$ 0.286  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -19.725 $\pm$ 0.278  $\chi^2$ /NDF: 0.0/1

reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 17.030+/-0.379  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.636+/-1.731  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

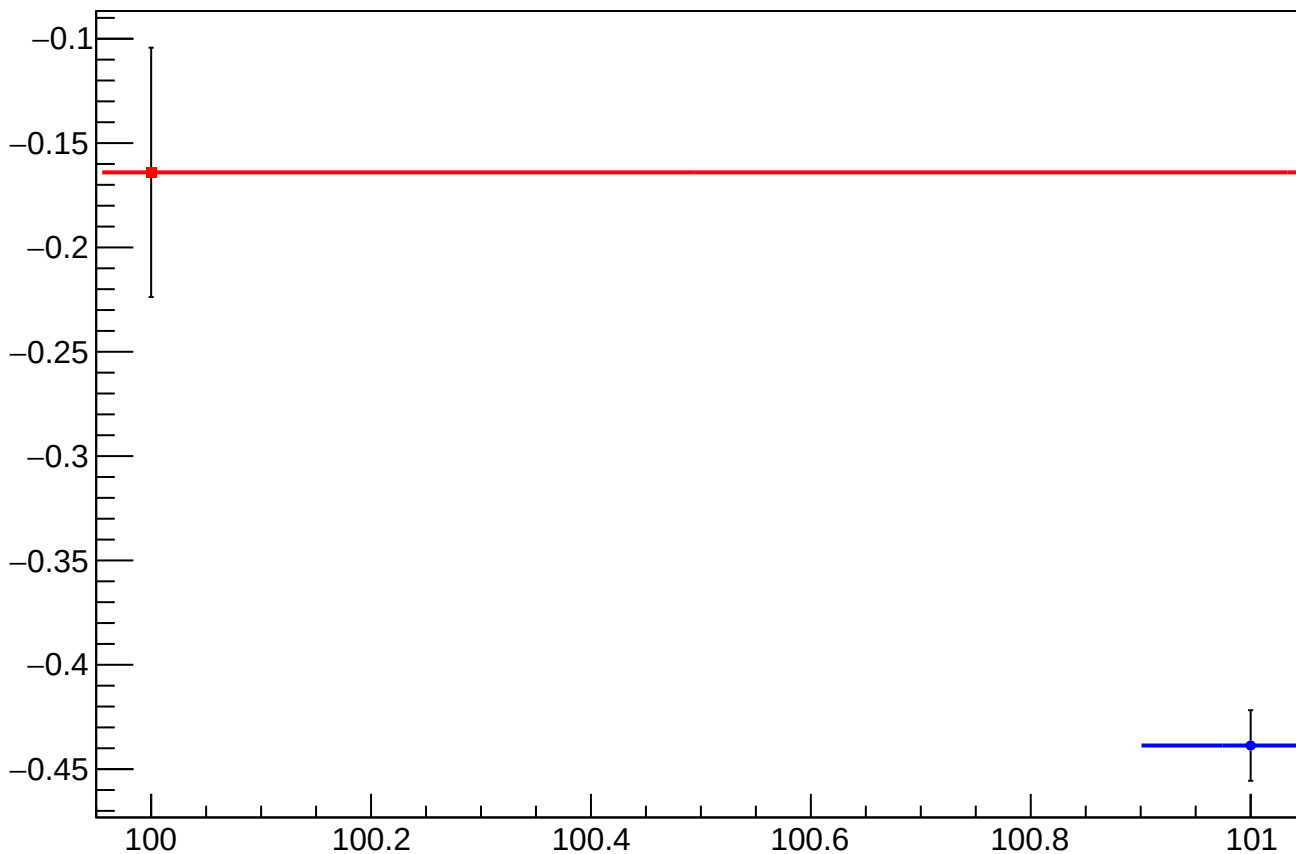
Right: 15.856+/-0.370  $\chi^2/\text{NDF}$ : 209.8/1

In: 17.030+/-0.379  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.856+/-0.370  $\chi^2/\text{NDF}$ : 209.8/1

reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.439+/-0.017  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.164+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

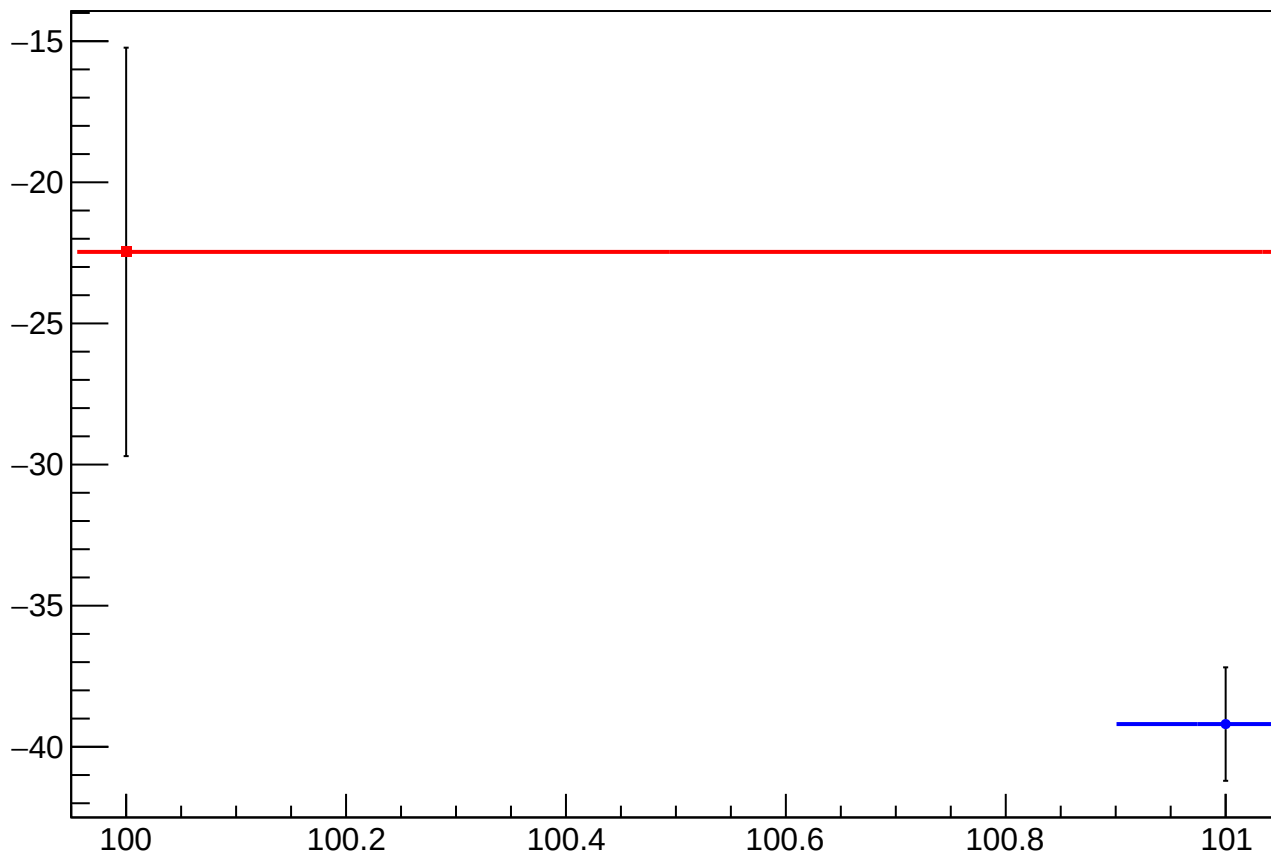
Right: -0.418+/-0.016  $\chi^2/\text{NDF}$ : 19.6/1

In: -0.439+/-0.017  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.418+/-0.016  $\chi^2/\text{NDF}$ : 19.6/1

reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -39.194 $\pm$ 2.010  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -22.465 $\pm$ 7.236  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

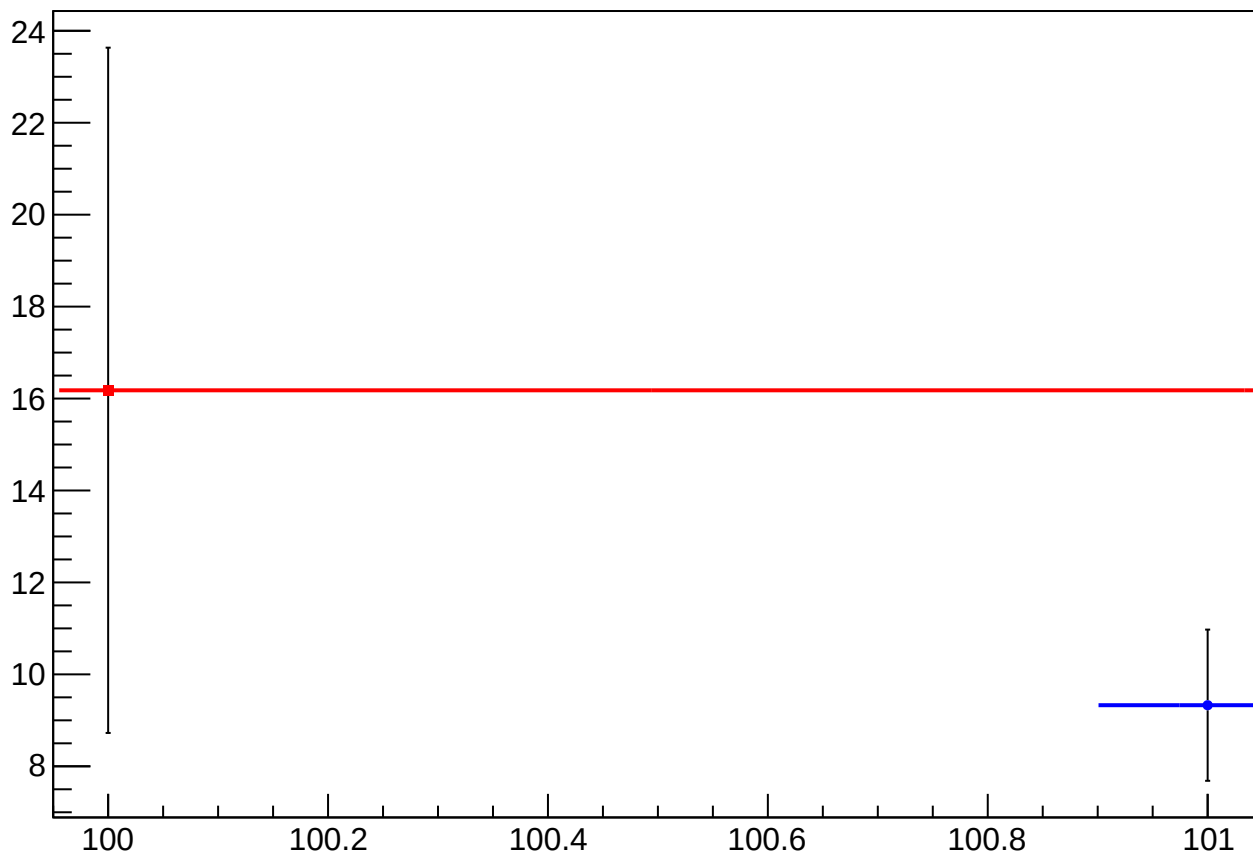
Right: -37.996 $\pm$ 1.937  $\chi^2$ /NDF: 5.0/1

In: -39.194 $\pm$ 2.010  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -37.996 $\pm$ 1.937  $\chi^2$ /NDF: 5.0/1

reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 9.329+/-1.645  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.179+/-7.454  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 9.647+/-1.606  $\chi^2/\text{NDF}$ : 0.8/1

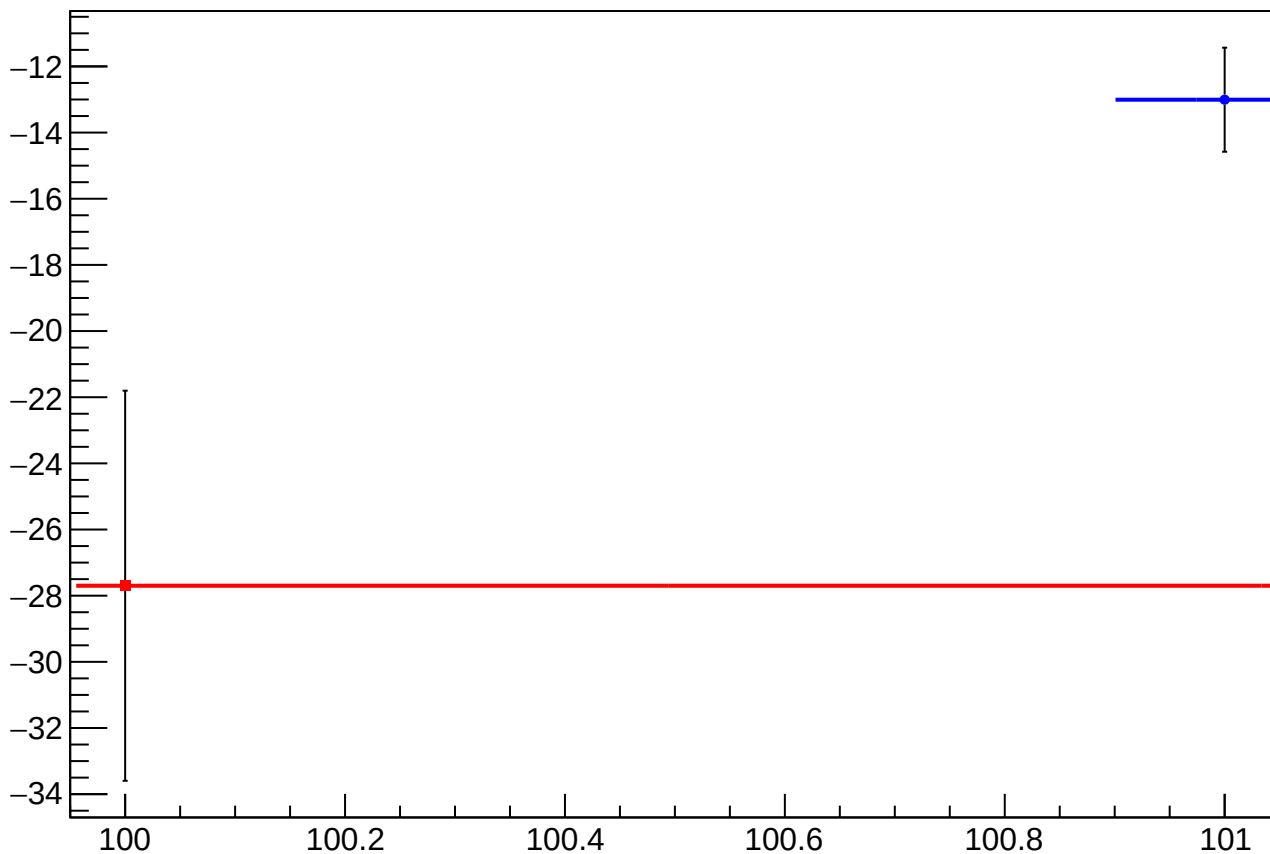
In: 9.329+/-1.645  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.647+/-1.606  $\chi^2/\text{NDF}$ : 0.8/1



reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -13.006 $\pm$ 1.573  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -27.699 $\pm$ 5.897  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

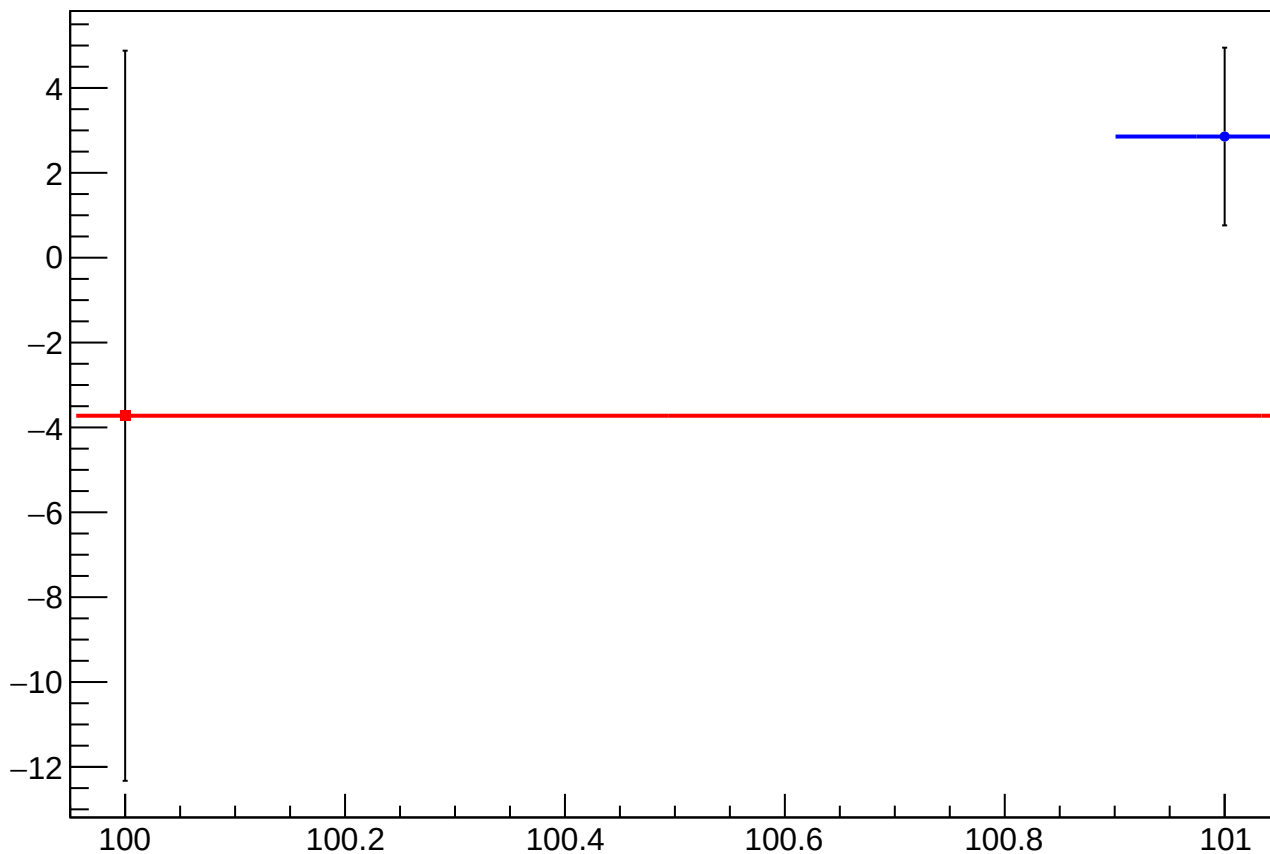
Right: -13.983 $\pm$ 1.520  $\chi^2$ /NDF: 5.8/1

In: -13.006 $\pm$ 1.573  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -13.983 $\pm$ 1.520  $\chi^2$ /NDF: 5.8/1

reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 2.855+/-2.094  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.724+/-8.603  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

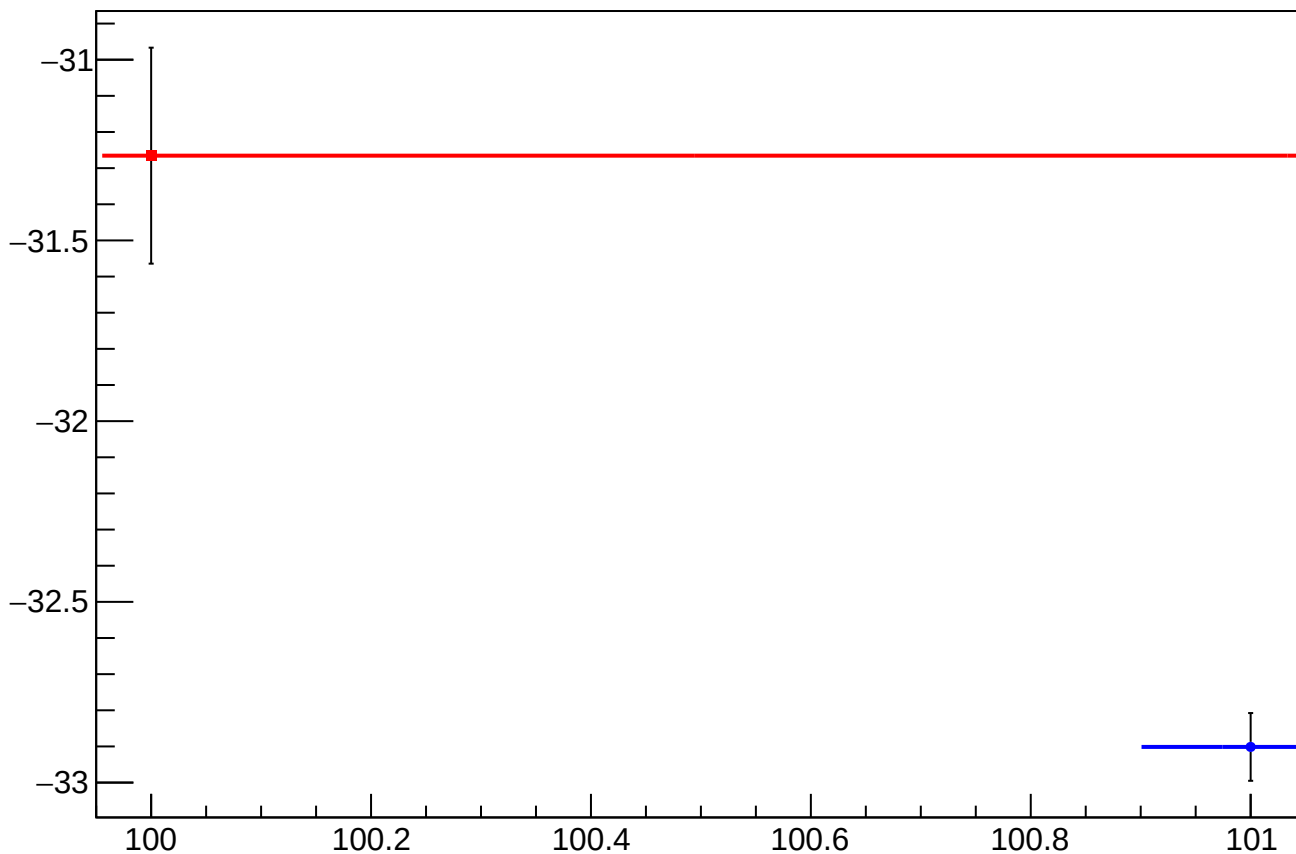
Right: 2.487+/-2.035  $\chi^2/\text{NDF}$ : 0.6/1

In: 2.855+/-2.094  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.487+/-2.035  $\chi^2/\text{NDF}$ : 0.6/1

reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -32.901 $\pm$ 0.094  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -31.265 $\pm$ 0.299  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

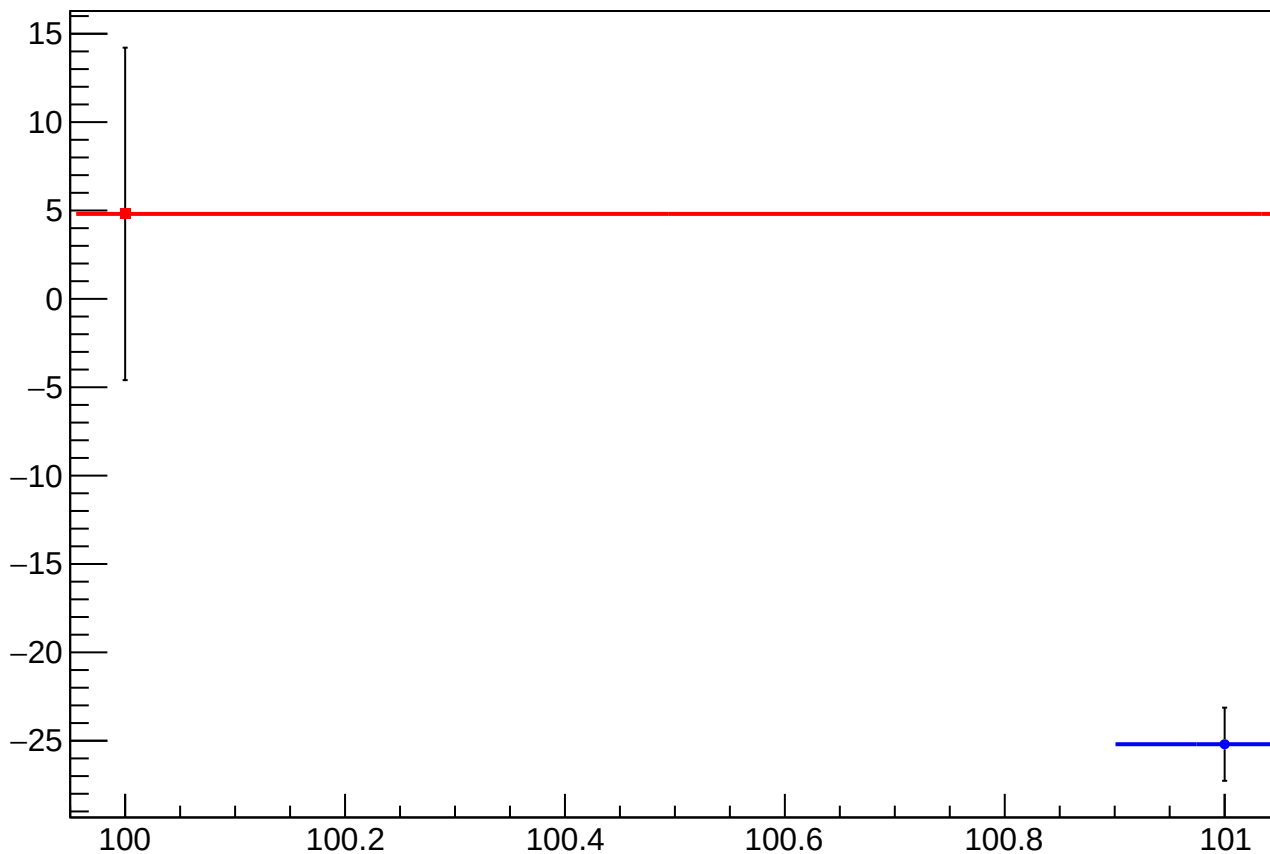
Right: -32.755 $\pm$ 0.089  $\chi^2$ /NDF: 27.3/1

In: -32.901 $\pm$ 0.094  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -32.755 $\pm$ 0.089  $\chi^2$ /NDF: 27.3/1

reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -25.197 $\pm$ 2.069  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.807 $\pm$ 9.405  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

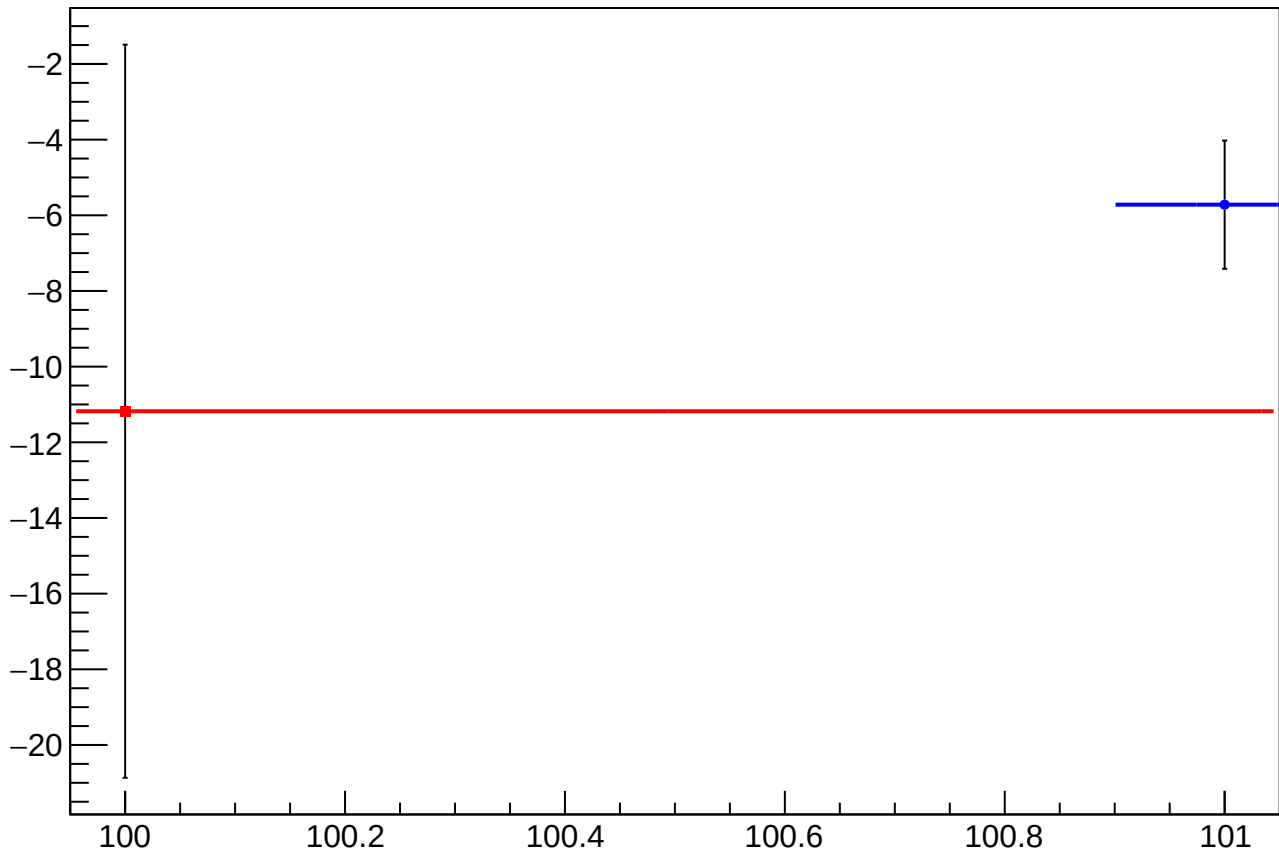
Right: -23.812 $\pm$ 2.021  $\chi^2$ /NDF: 9.7/1

In: -25.197 $\pm$ 2.069  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.812 $\pm$ 2.021  $\chi^2$ /NDF: 9.7/1

reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -5.719+/-1.695  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.179+/-9.689  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

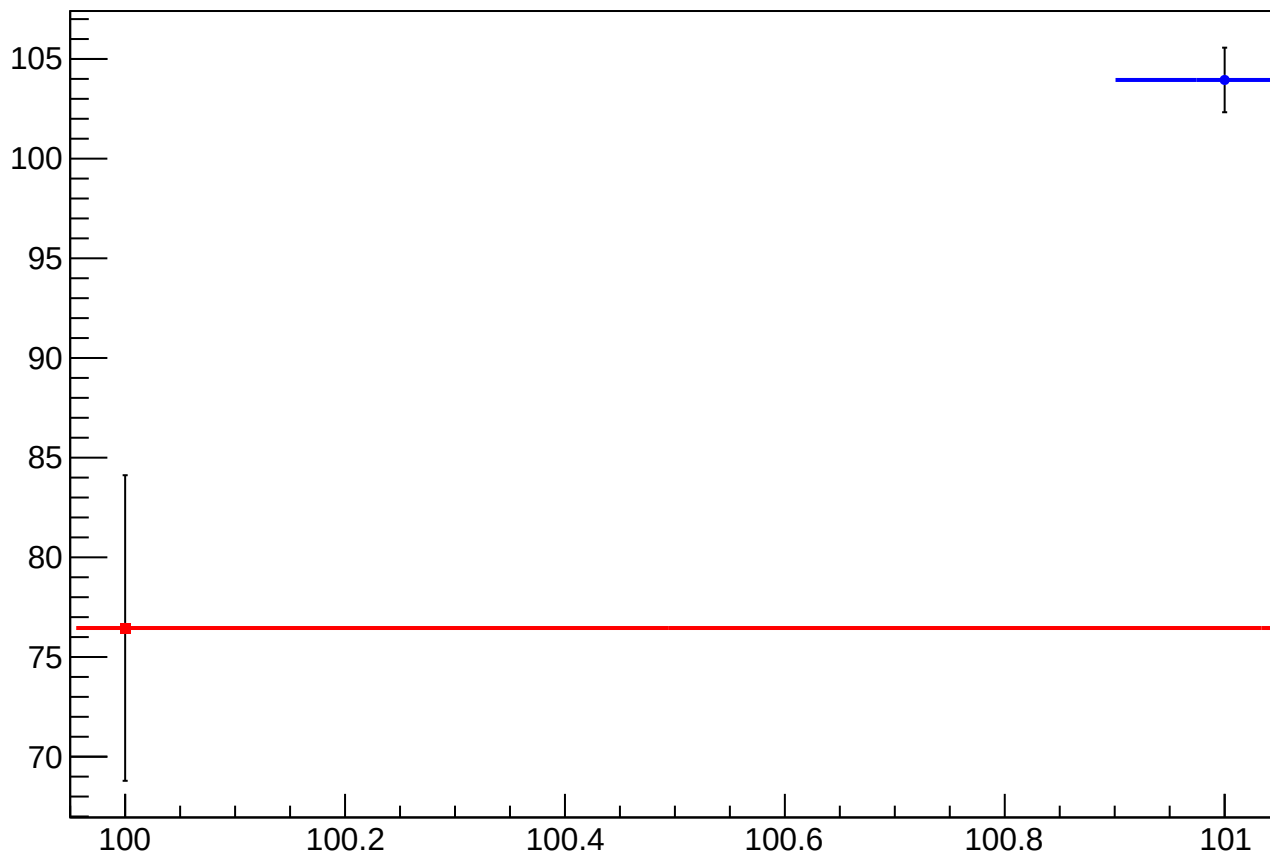
Right: -5.881+/-1.669  $\chi^2/\text{NDF}$ : 0.3/1

In: -5.719+/-1.695  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.881+/-1.669  $\chi^2/\text{NDF}$ : 0.3/1

reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 103.947 $\pm$ 1.620  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 76.455 $\pm$ 7.664  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

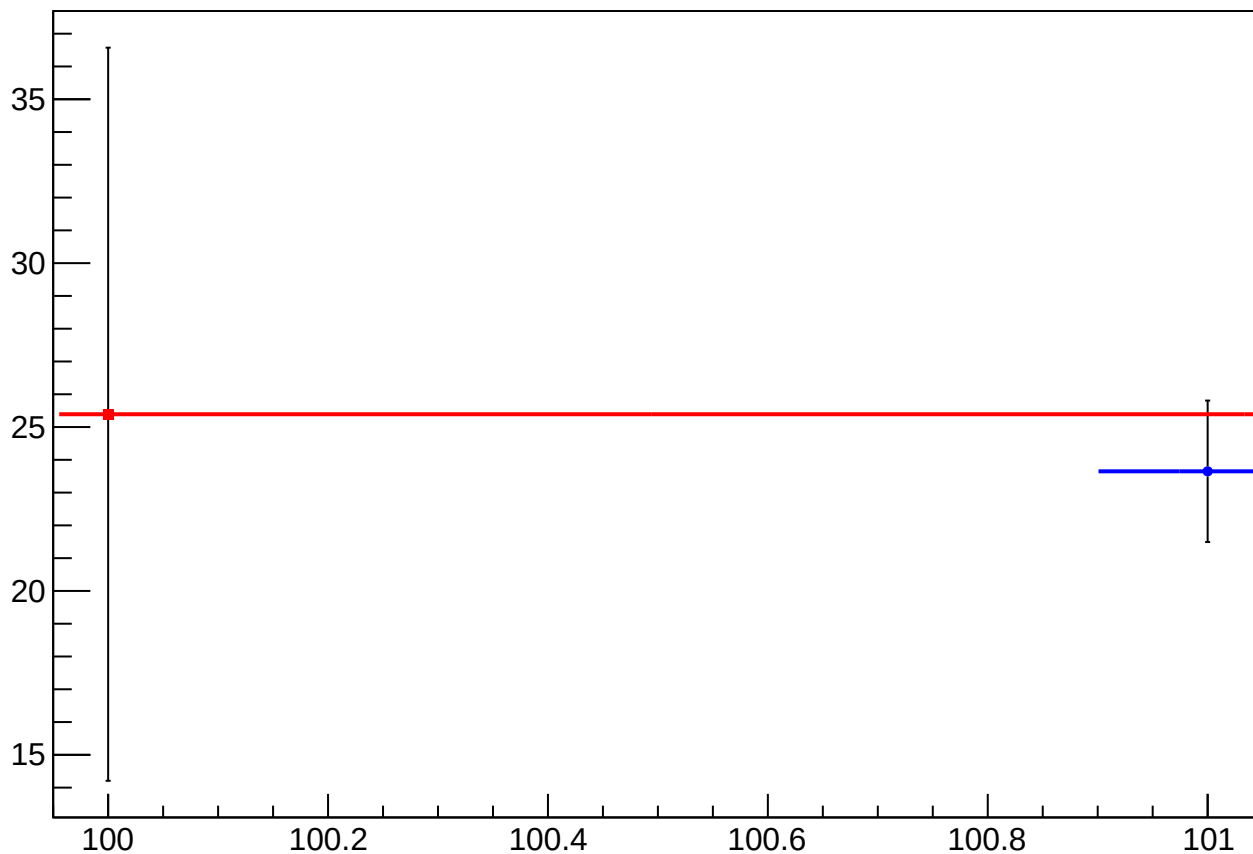
Right: 102.772 $\pm$ 1.585  $\chi^2$ /NDF: 12.3/1

In: 103.947 $\pm$ 1.620  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 102.772 $\pm$ 1.585  $\chi^2$ /NDF: 12.3/1

reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.650 $\pm$ 2.158  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.391 $\pm$ 11.183  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

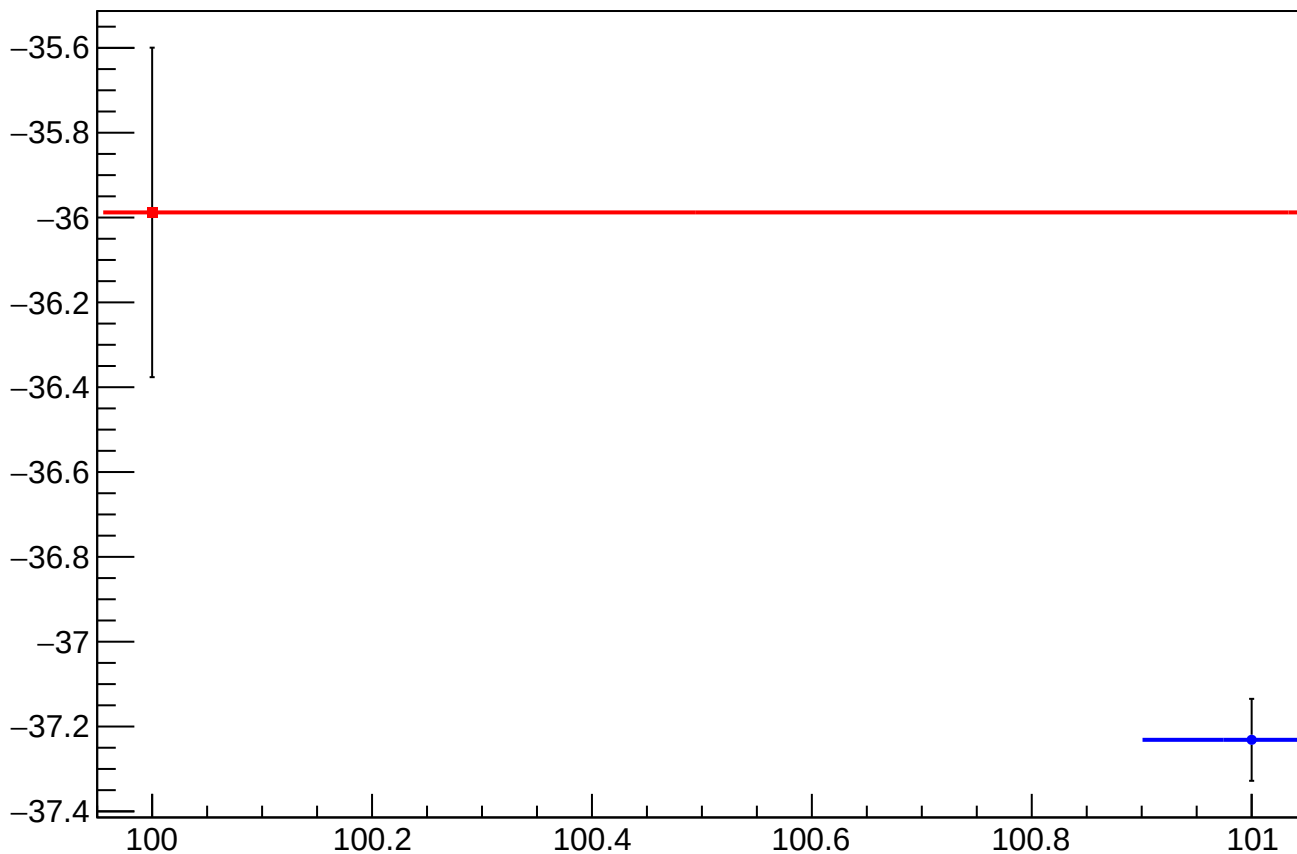
Right: 23.712 $\pm$ 2.119  $\chi^2$ /NDF: 0.0/1

In: 23.650 $\pm$ 2.158  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.712 $\pm$ 2.119  $\chi^2$ /NDF: 0.0/1

reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -37.231 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -35.988 $\pm$ 0.388  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -37.159 $\pm$ 0.094  $\chi^2$ /NDF: 9.7/1

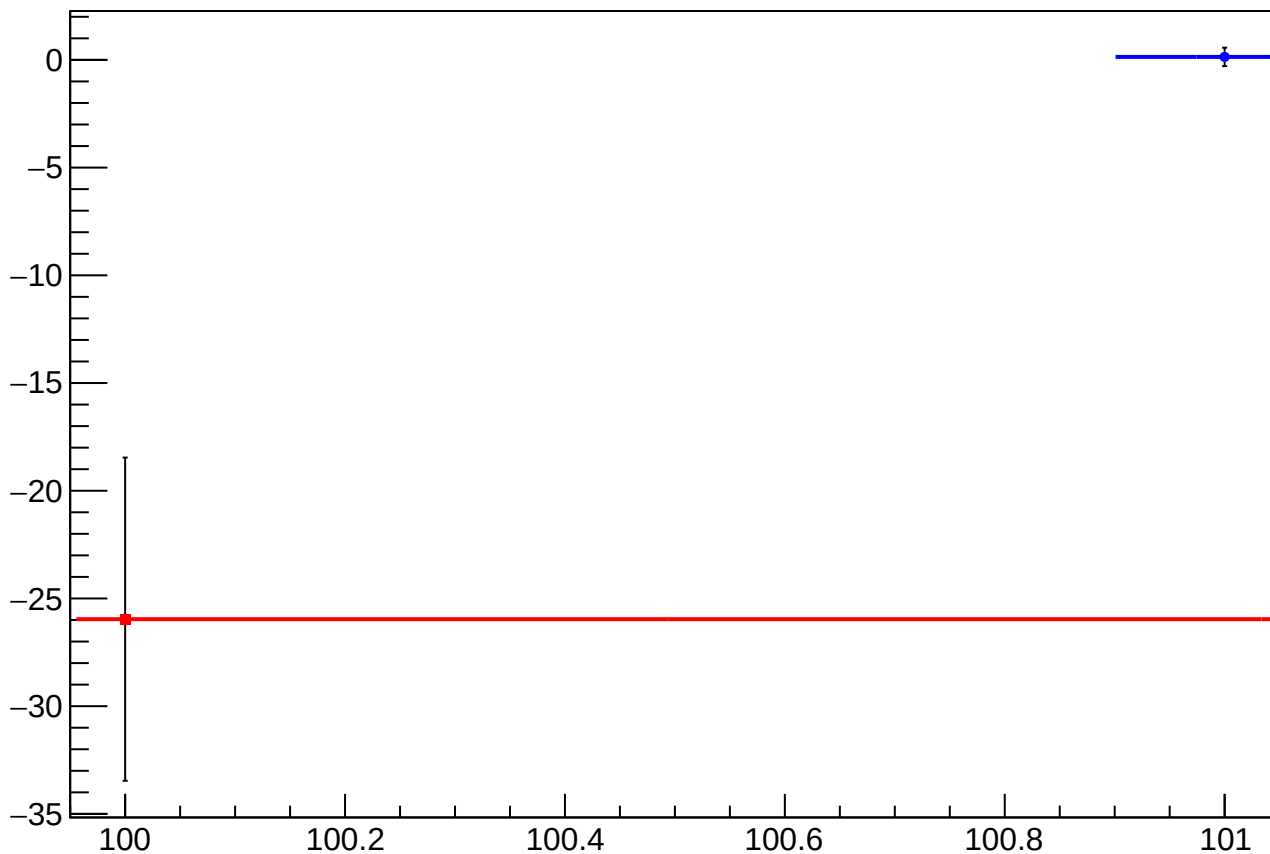
In: -37.231 $\pm$ 0.097  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -37.159 $\pm$ 0.094  $\chi^2$ /NDF: 9.7/1



reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.139 $\pm$ 0.428  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -25.962 $\pm$ 7.502  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

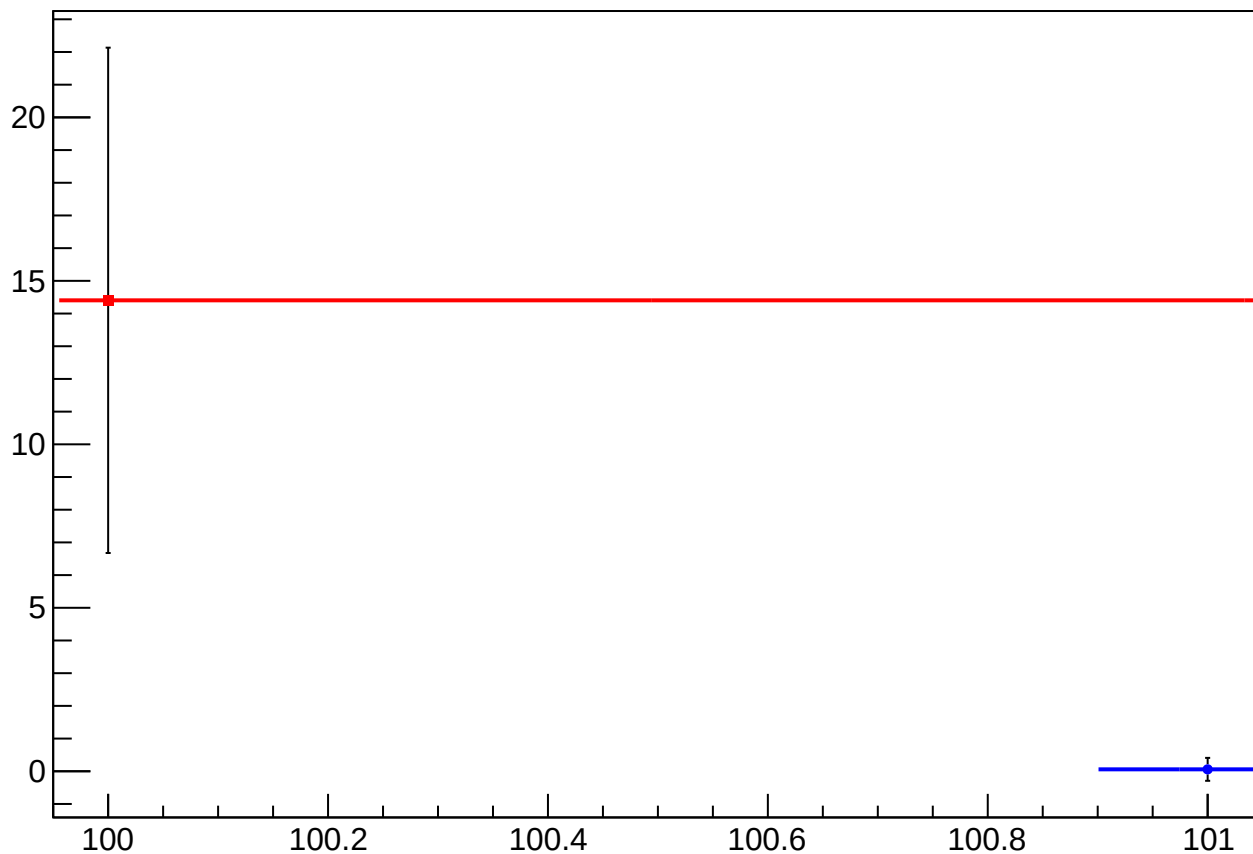
Right: 0.054 $\pm$ 0.428  $\chi^2/\text{NDF}$ : 12.1/1

In: 0.139 $\pm$ 0.428  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.054 $\pm$ 0.428  $\chi^2/\text{NDF}$ : 12.1/1

reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.059 $\pm$ 0.350  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.404 $\pm$ 7.728  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

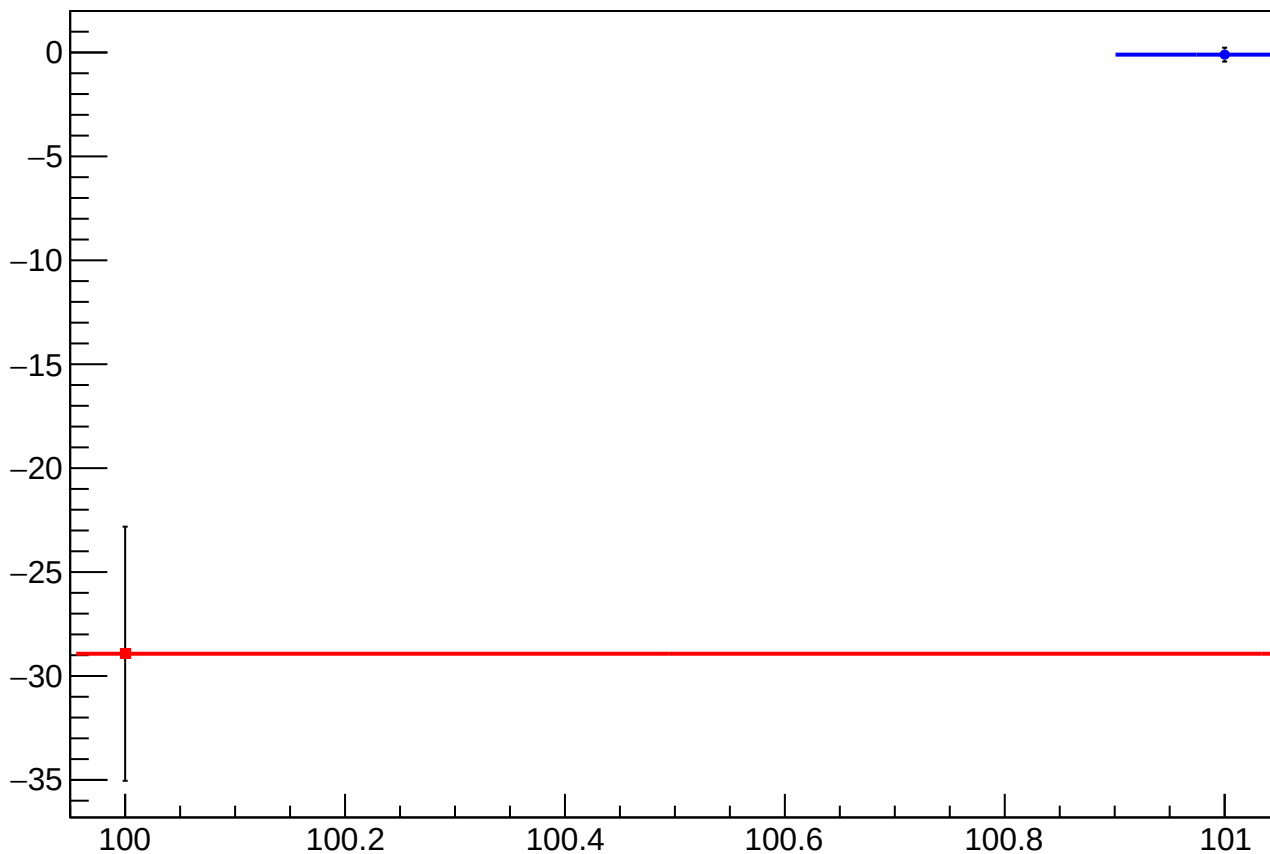
Right: 0.088 $\pm$ 0.350  $\chi^2$ /NDF: 3.4/1

In: 0.059 $\pm$ 0.350  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.088 $\pm$ 0.350  $\chi^2$ /NDF: 3.4/1

reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -0.104 +/- 0.335  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -28.929 +/- 6.114  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

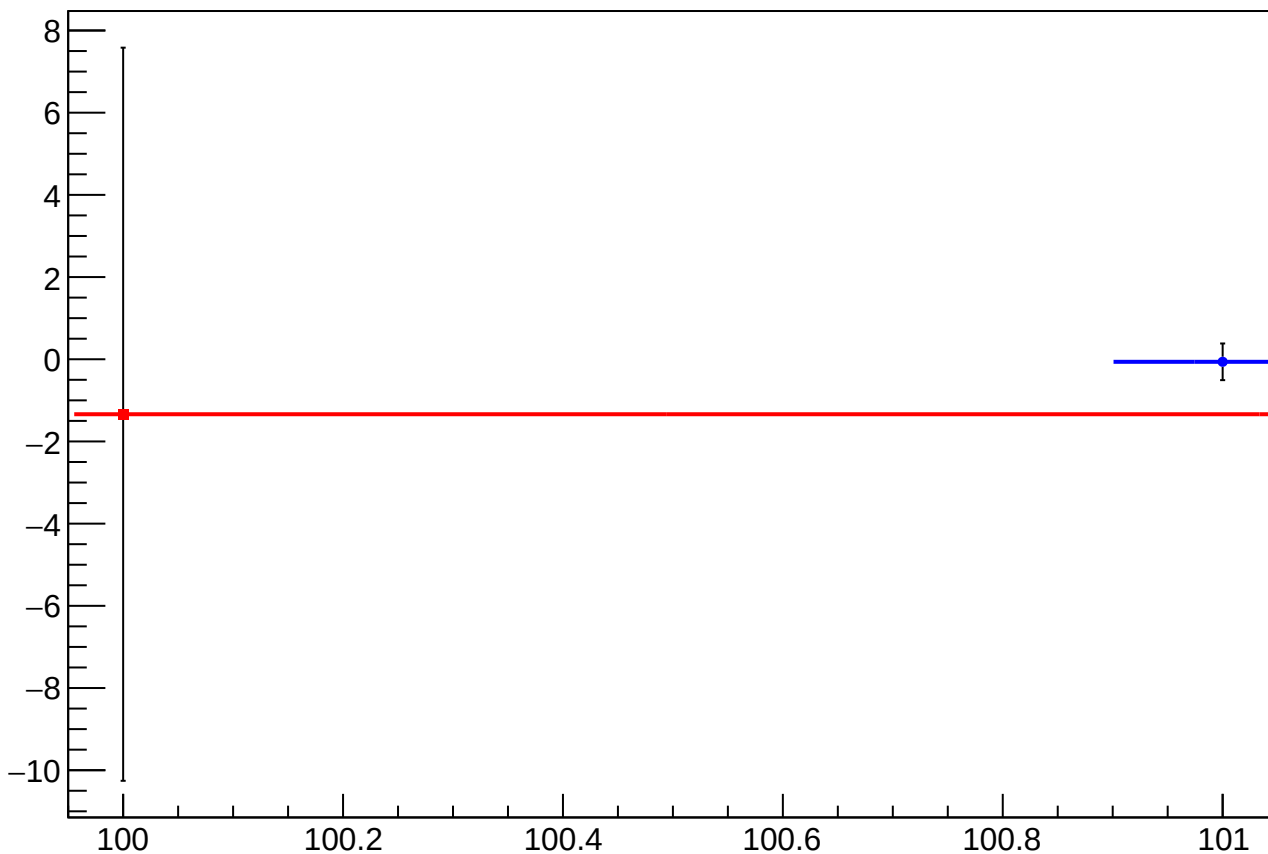
Right: -0.190 +/- 0.335  $\chi^2/\text{NDF}$ : 22.2/1

In: -0.104 +/- 0.335  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.190 +/- 0.335  $\chi^2/\text{NDF}$ : 22.2/1

reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -0.062 $\pm$ 0.446  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.338 $\pm$ 8.920  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

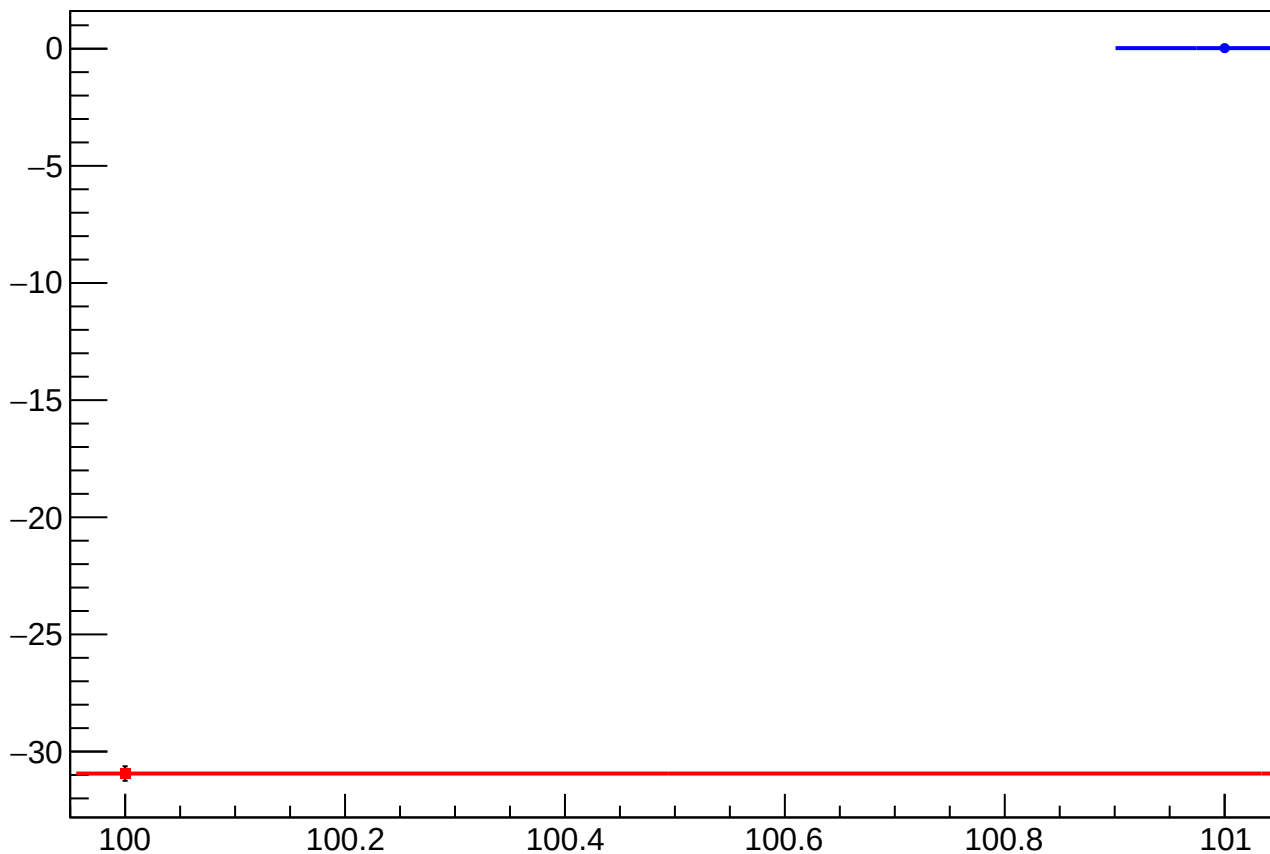
Right: -0.065 $\pm$ 0.445  $\chi^2$ /NDF: 0.0/1

In: -0.062 $\pm$ 0.446  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.065 $\pm$ 0.445  $\chi^2$ /NDF: 0.0/1

reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.025+/-0.020  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -30.938+/-0.310  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

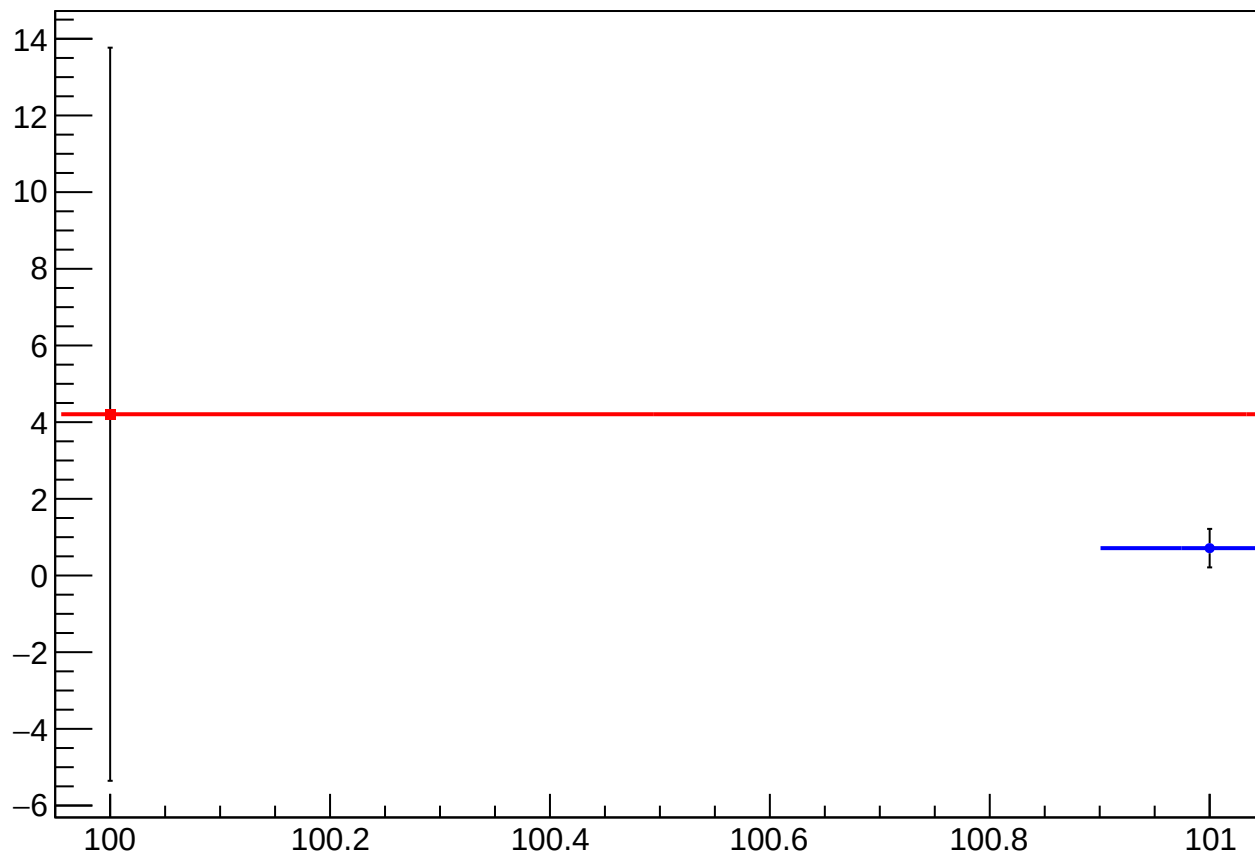
Right: -0.103+/-0.020  $\chi^2/\text{NDF}$ : 9949.3/1

In: 0.025+/-0.020  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.103+/-0.020  $\chi^2/\text{NDF}$ : 9949.3/1

reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.714 \pm 0.502$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $4.207 \pm 9.562$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

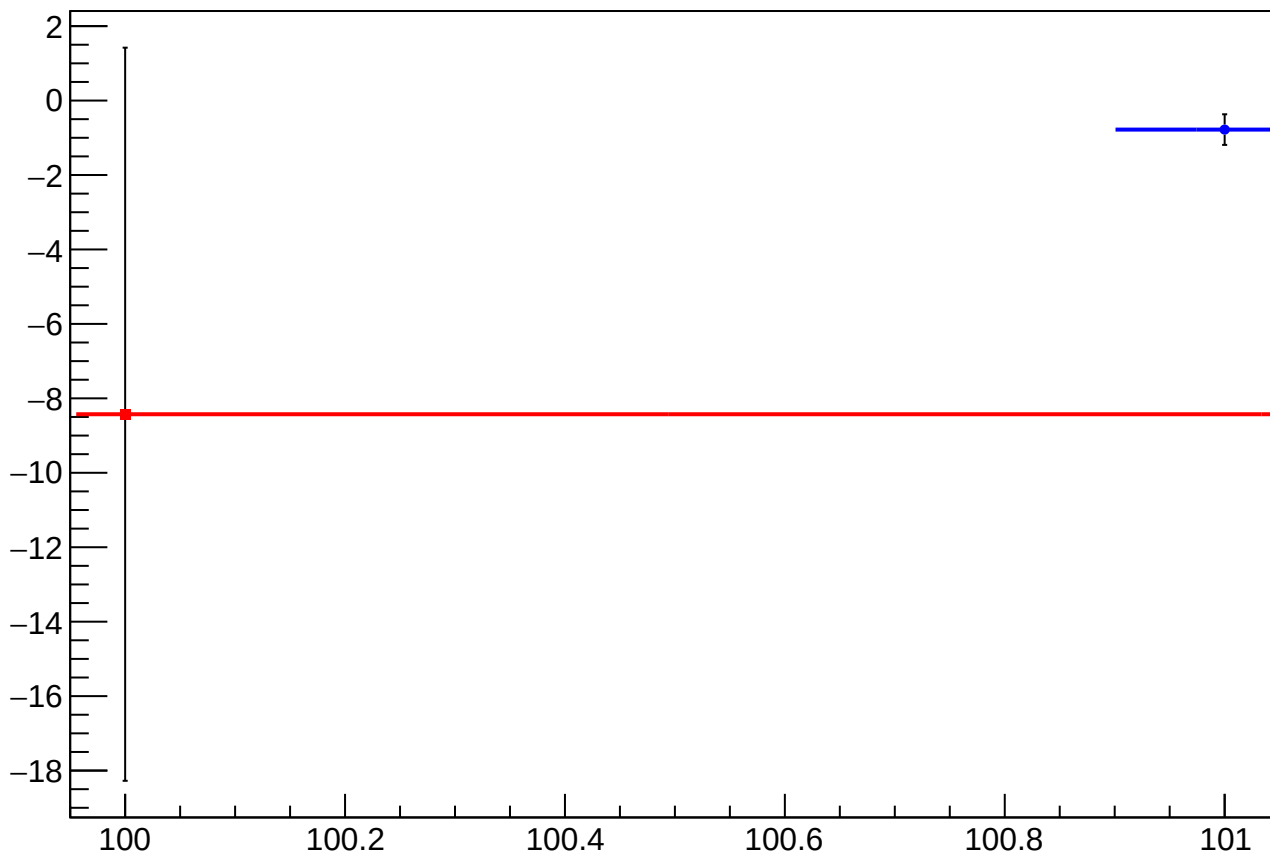
Right:  $0.723 \pm 0.502$   $\chi^2/\text{NDF}: 0.1/1$

In:  $0.714 \pm 0.502$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $0.723 \pm 0.502$   $\chi^2/\text{NDF}: 0.1/1$

reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.780+/-0.411  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -8.427+/-9.848  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

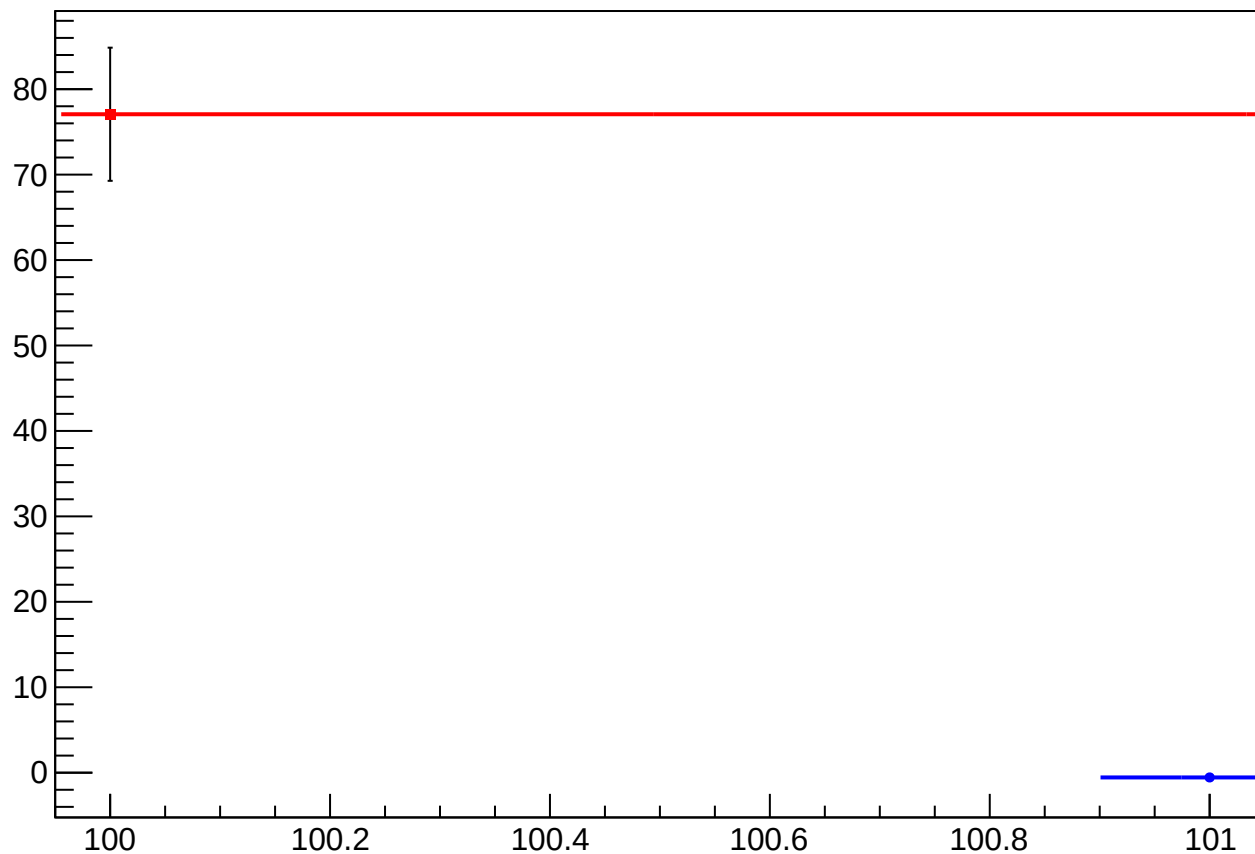
Right: -0.793+/-0.411  $\chi^2/\text{NDF}$ : 0.6/1

In: -0.780+/-0.411  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.793+/-0.411  $\chi^2/\text{NDF}$ : 0.6/1

reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-0.556 \pm 0.393$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $77.066 \pm 7.792$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right:  $-0.359 \pm 0.393$   $\chi^2/\text{NDF}: 99.0/1$

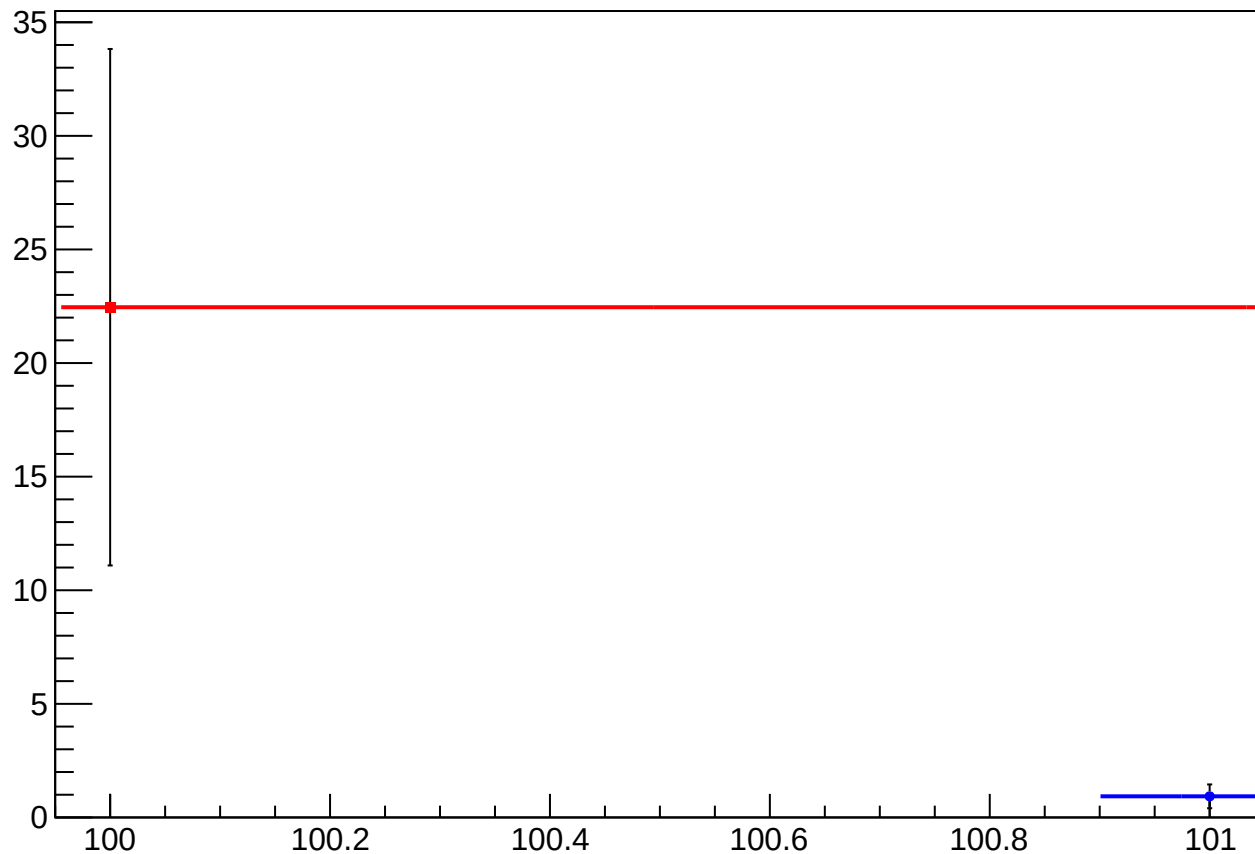
In:  $-0.556 \pm 0.393$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.359 \pm 0.393$   $\chi^2/\text{NDF}: 99.0/1$



reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.930 $\pm$ 0.523  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 22.457 $\pm$ 11.366  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

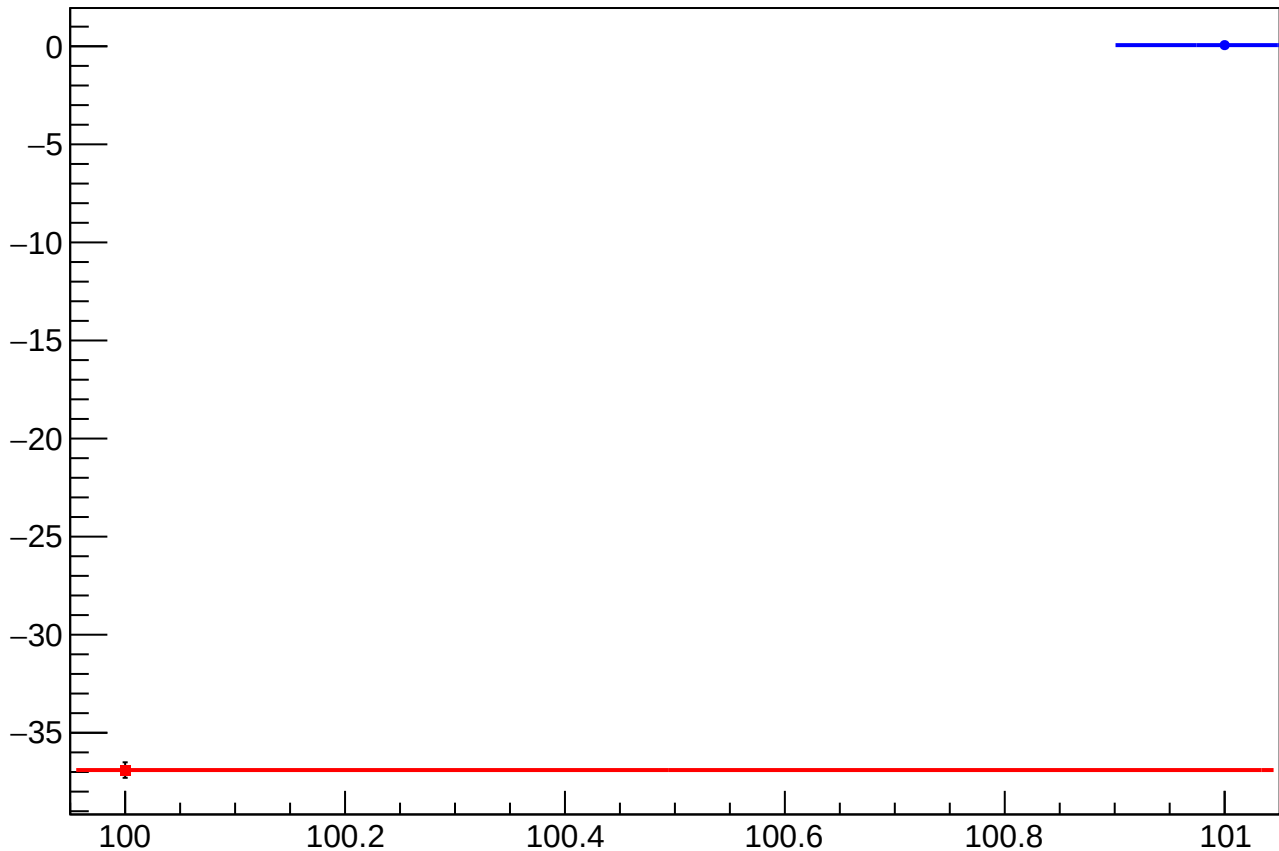
Right: 0.976 $\pm$ 0.523  $\chi^2$ /NDF: 3.6/1

In: 0.930 $\pm$ 0.523  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.976 $\pm$ 0.523  $\chi^2$ /NDF: 3.6/1

reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.058 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -36.900 $\pm$ 0.395  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

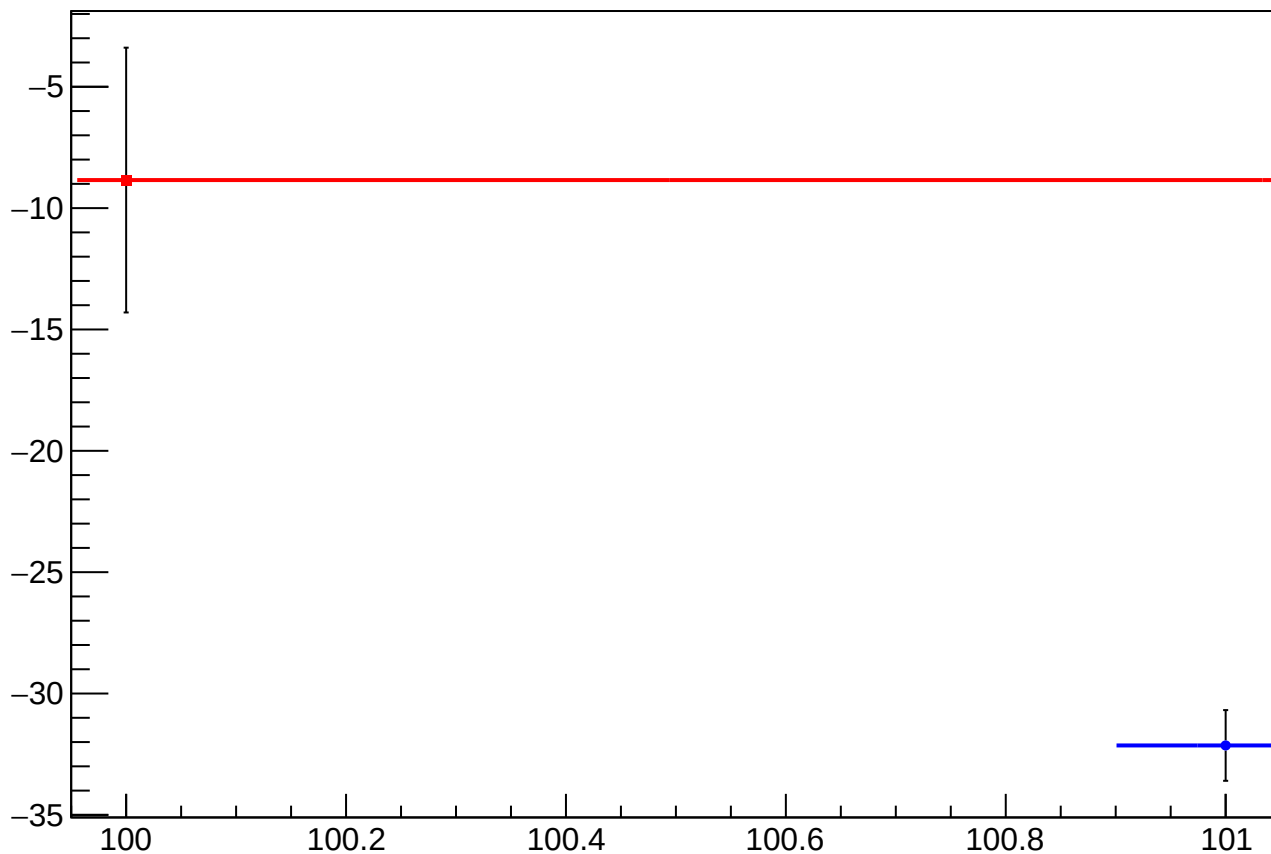
Right: -0.071 $\pm$ 0.023  $\chi^2$ /NDF: 8730.3/1

In: 0.058 $\pm$ 0.023  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.071 $\pm$ 0.023  $\chi^2$ /NDF: 8730.3/1

reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -32.139 $\pm$ 1.457  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -8.844 $\pm$ 5.455  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

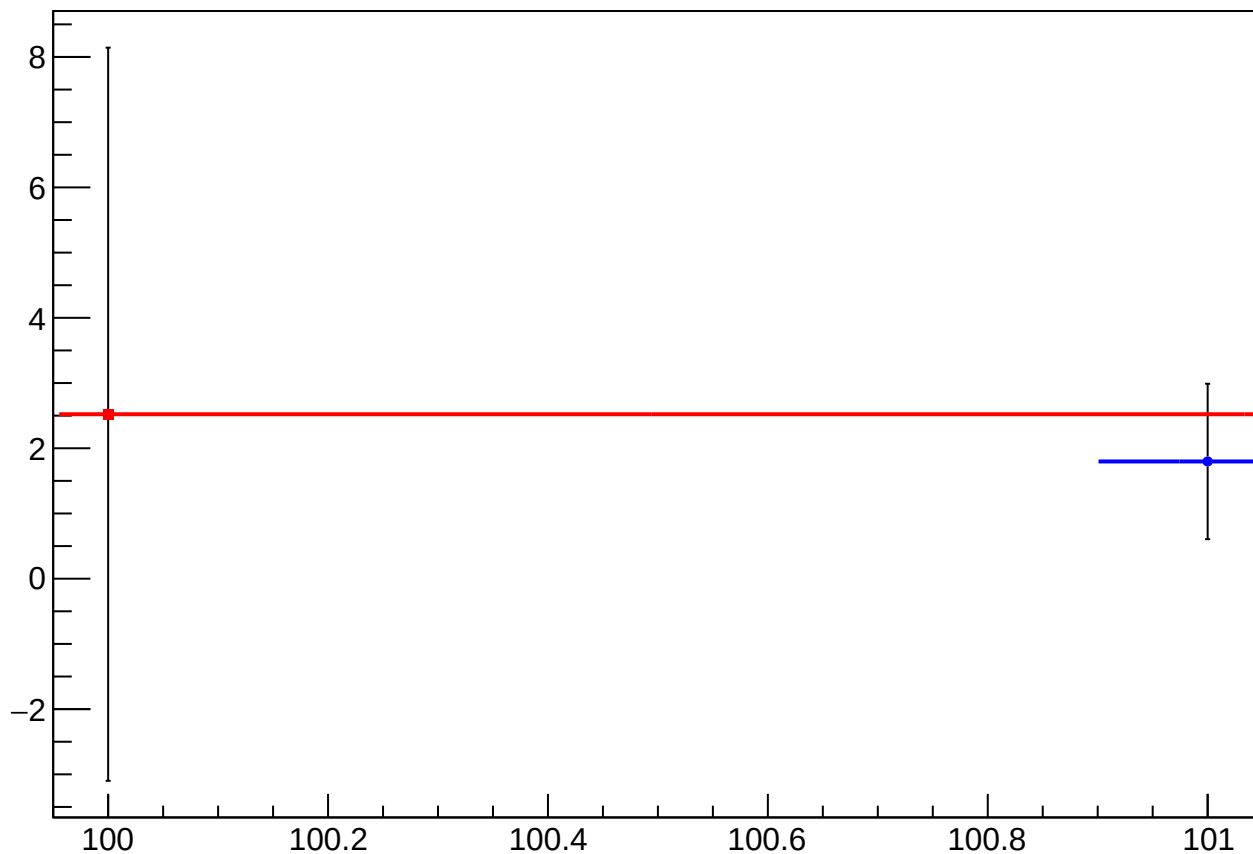
Right: -30.589 $\pm$ 1.407  $\chi^2$ /NDF: 17.0/1

In: -32.139 $\pm$ 1.457  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -30.589 $\pm$ 1.407  $\chi^2$ /NDF: 17.0/1

reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.798+/-1.192  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.522+/-5.621  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

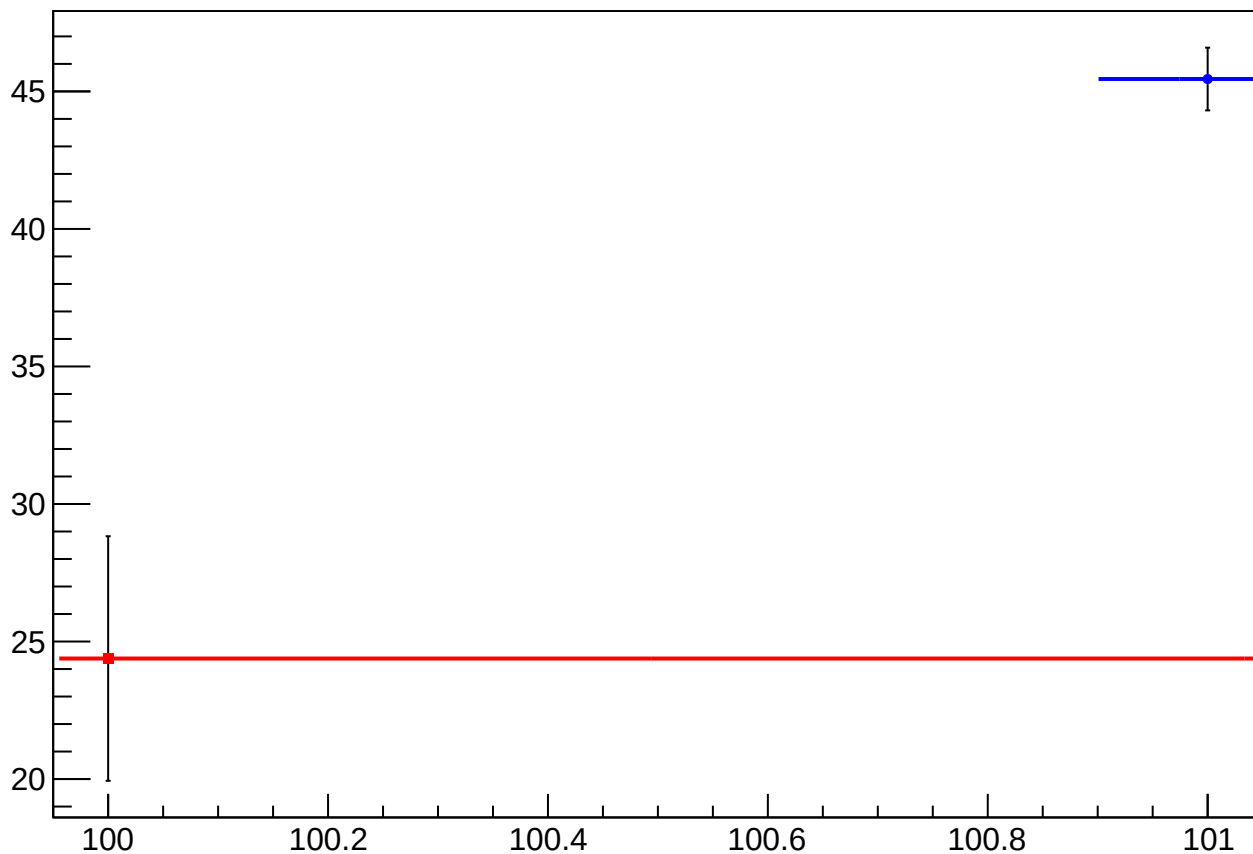
Right: 1.829+/-1.166  $\chi^2/\text{NDF}$ : 0.0/1

In: 1.798+/-1.192  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.829+/-1.166  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 45.450 $\pm$ 1.140  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 24.382 $\pm$ 4.446  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

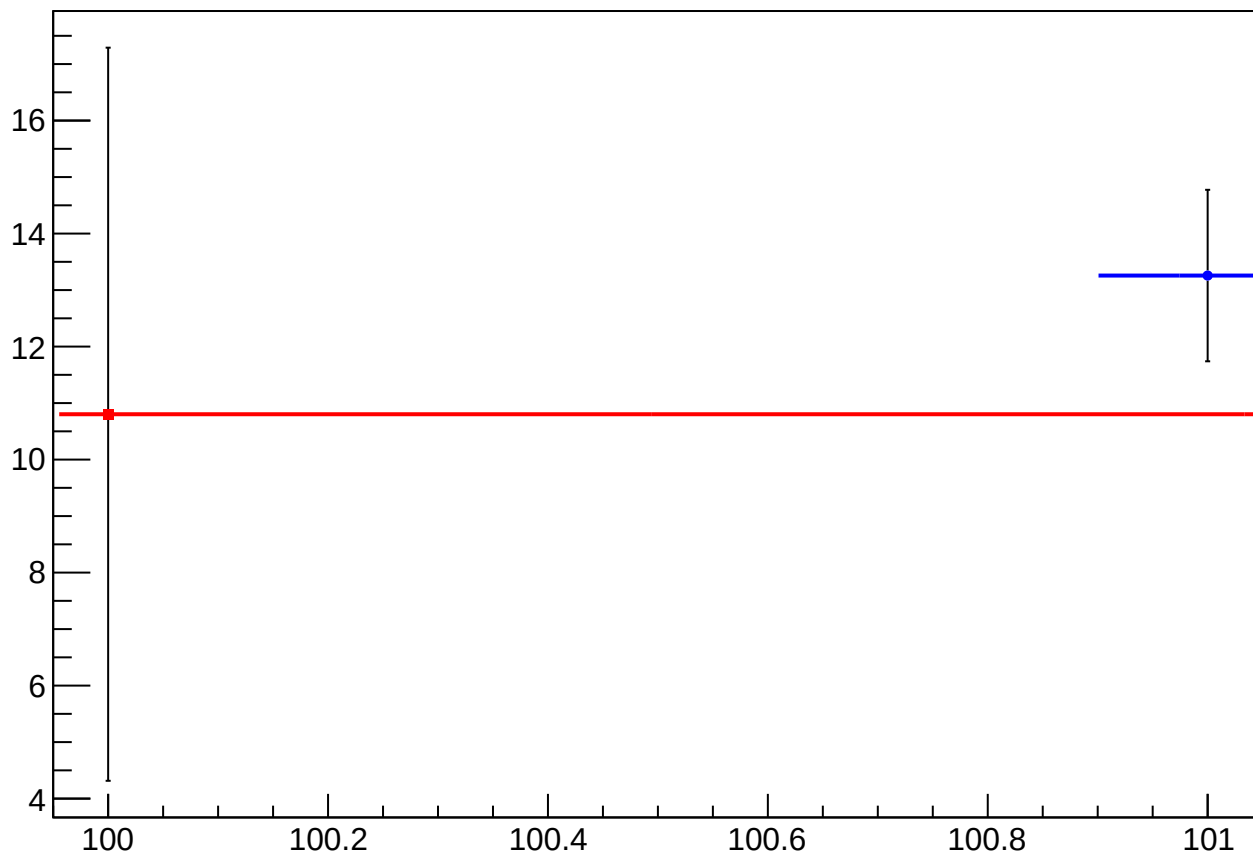
Right: 44.150 $\pm$ 1.104  $\chi^2$ /NDF: 21.1/1

In: 45.450 $\pm$ 1.140  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 44.150 $\pm$ 1.104  $\chi^2$ /NDF: 21.1/1

reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 13.257 $\pm$ 1.518  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.803 $\pm$ 6.487  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

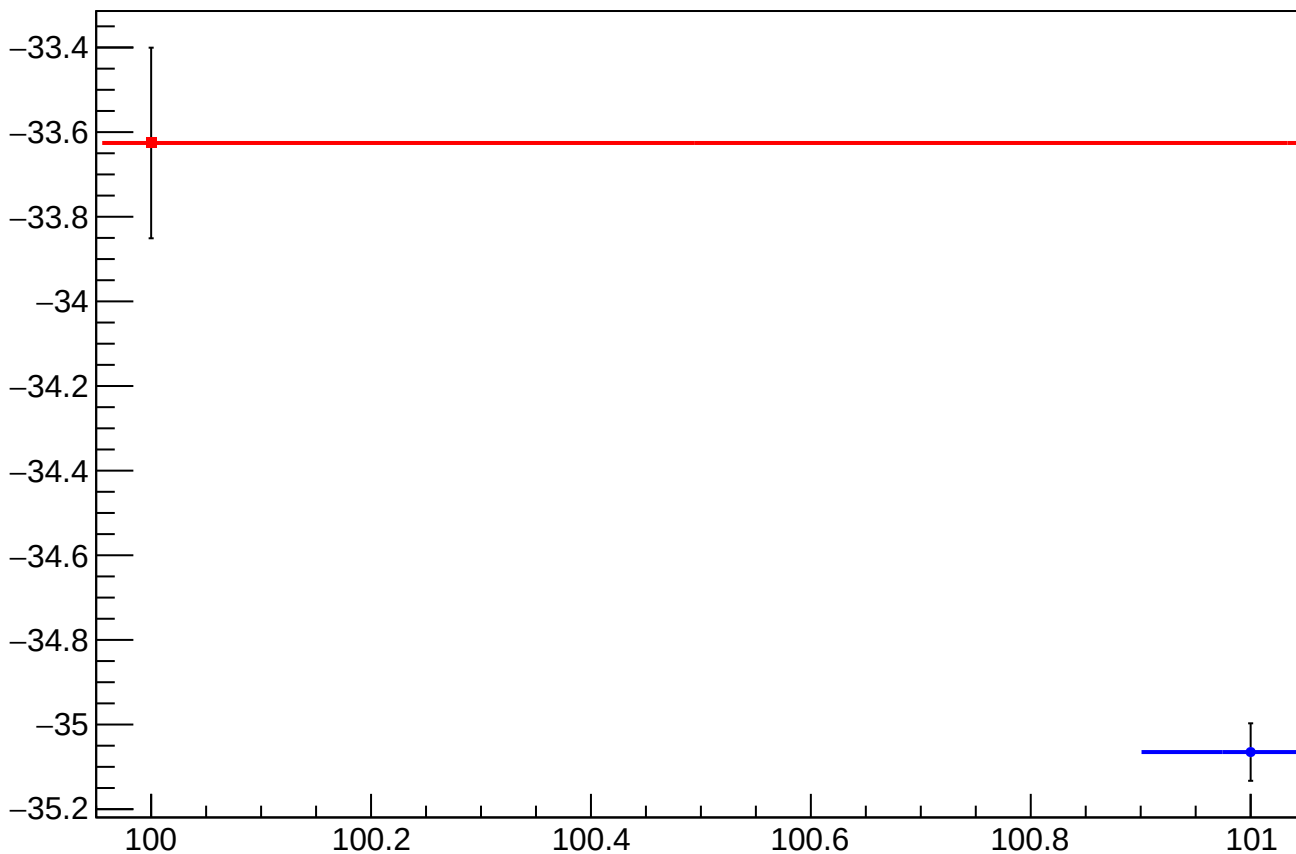
Right: 13.130 $\pm$ 1.478  $\chi^2$ /NDF: 0.1/1

In: 13.257 $\pm$ 1.518  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 13.130 $\pm$ 1.478  $\chi^2$ /NDF: 0.1/1

reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -35.065 $\pm$ 0.068  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.626 $\pm$ 0.225  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

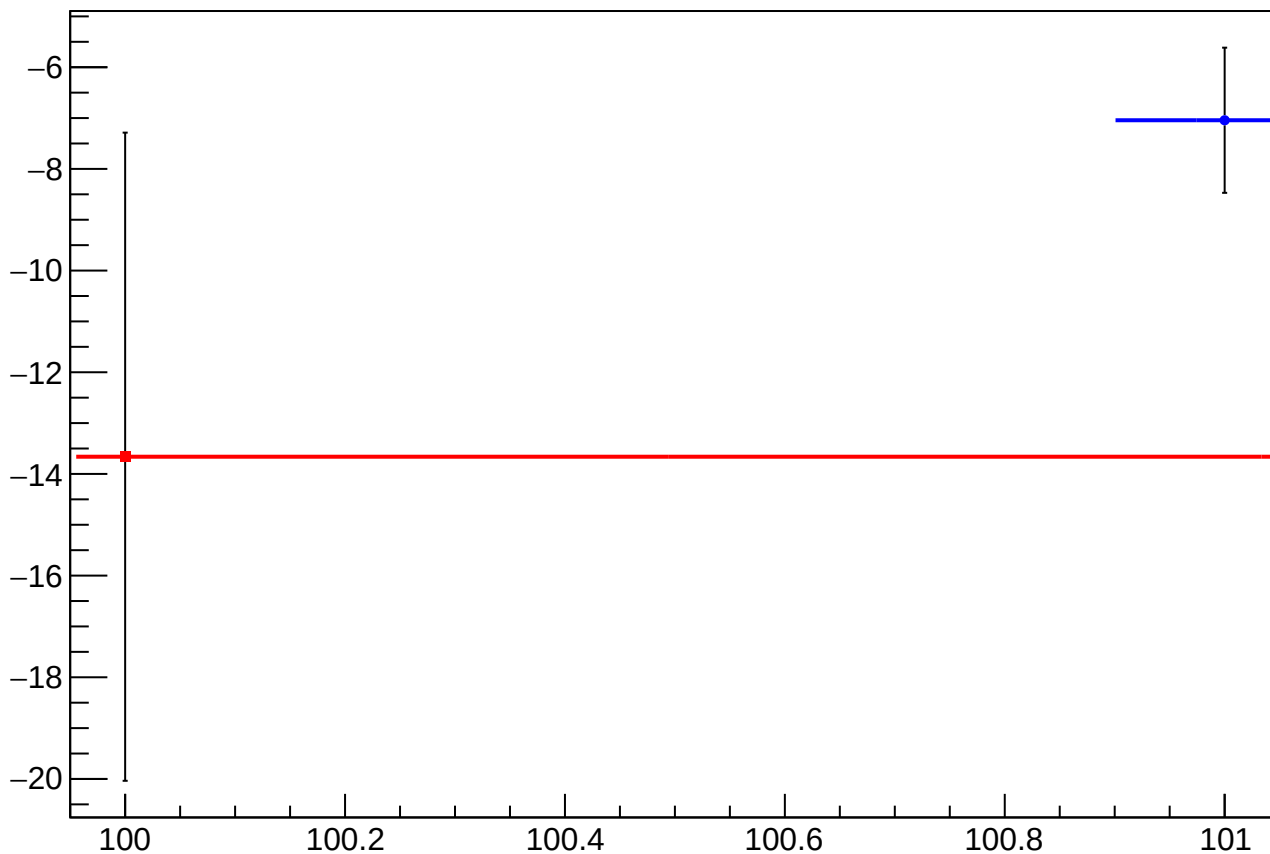
Right: -34.945 $\pm$ 0.065  $\chi^2$ /NDF: 37.4/1

In: -35.065 $\pm$ 0.068  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.945 $\pm$ 0.065  $\chi^2$ /NDF: 37.4/1

reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -7.043+/-1.428  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -13.661+/-6.375  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -7.359+/-1.393  $\chi^2/\text{NDF}$ : 1.0/1

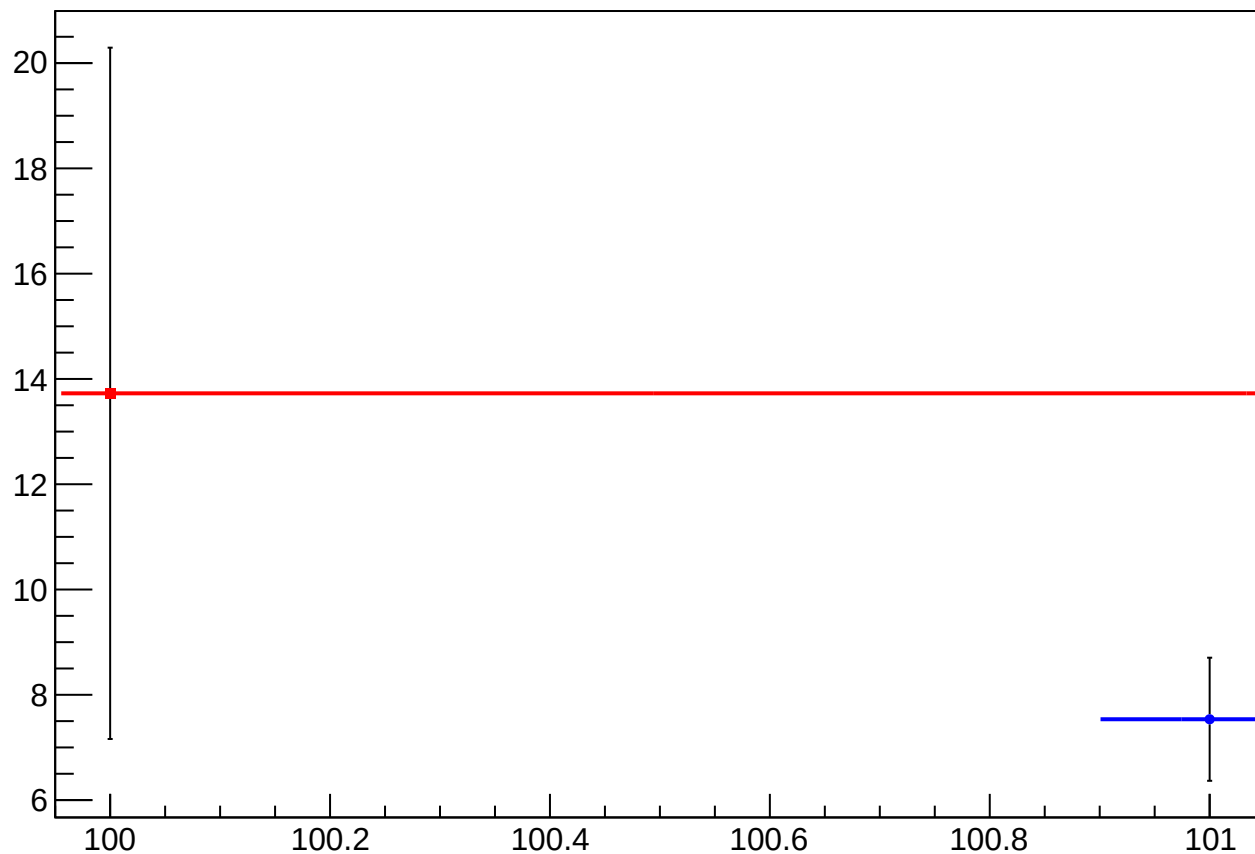
In: -7.043+/-1.428  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.359+/-1.393  $\chi^2/\text{NDF}$ : 1.0/1



reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 7.536 $\pm$ 1.169  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.727 $\pm$ 6.566  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

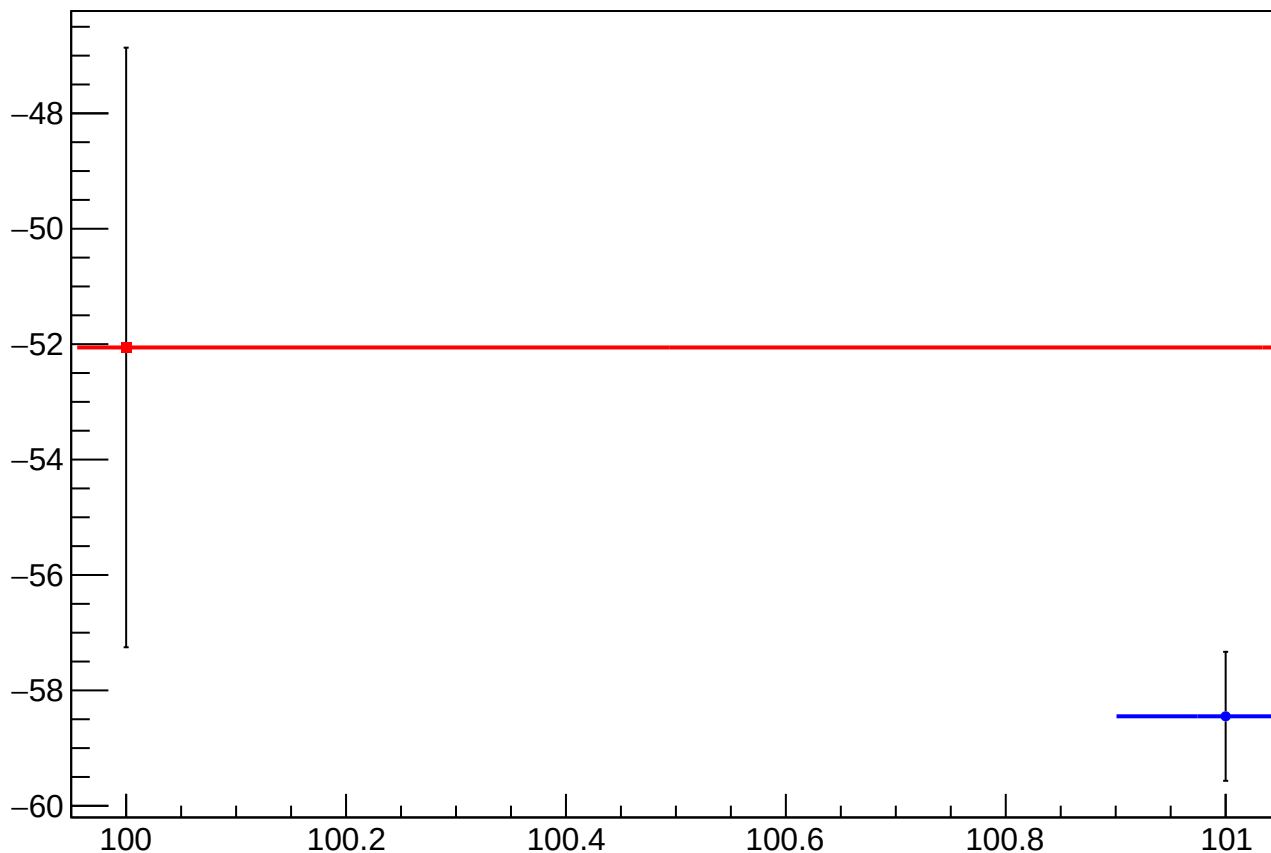
Right: 7.726 $\pm$ 1.151  $\chi^2$ /NDF: 0.9/1

In: 7.536 $\pm$ 1.169  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.726 $\pm$ 1.151  $\chi^2$ /NDF: 0.9/1

reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -58.449 $\pm$ 1.118  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -52.057 $\pm$ 5.195  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

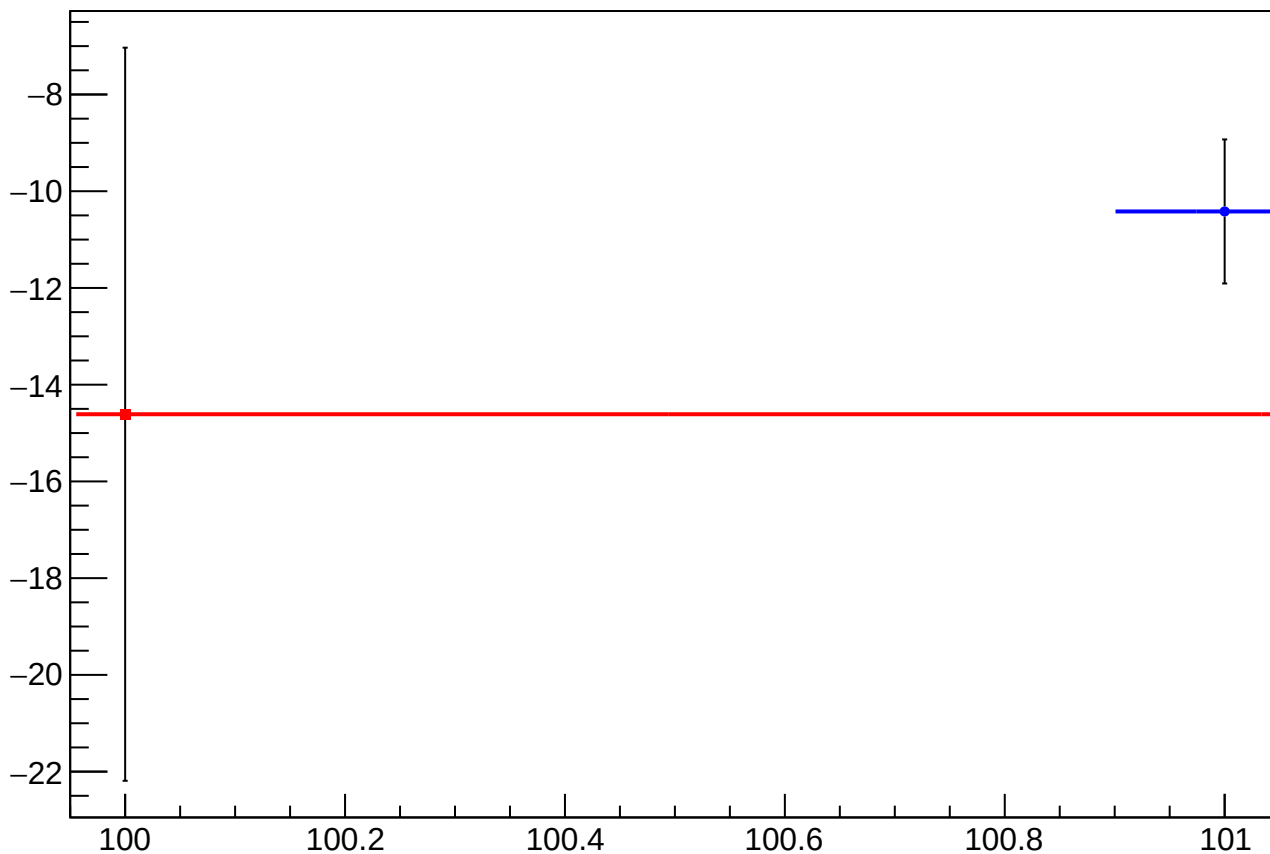
Right: -58.166 $\pm$ 1.093  $\chi^2$ /NDF: 1.4/1

In: -58.449 $\pm$ 1.118  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -58.166 $\pm$ 1.093  $\chi^2$ /NDF: 1.4/1

reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -10.418 $\pm$ 1.489  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -14.611 $\pm$ 7.579  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

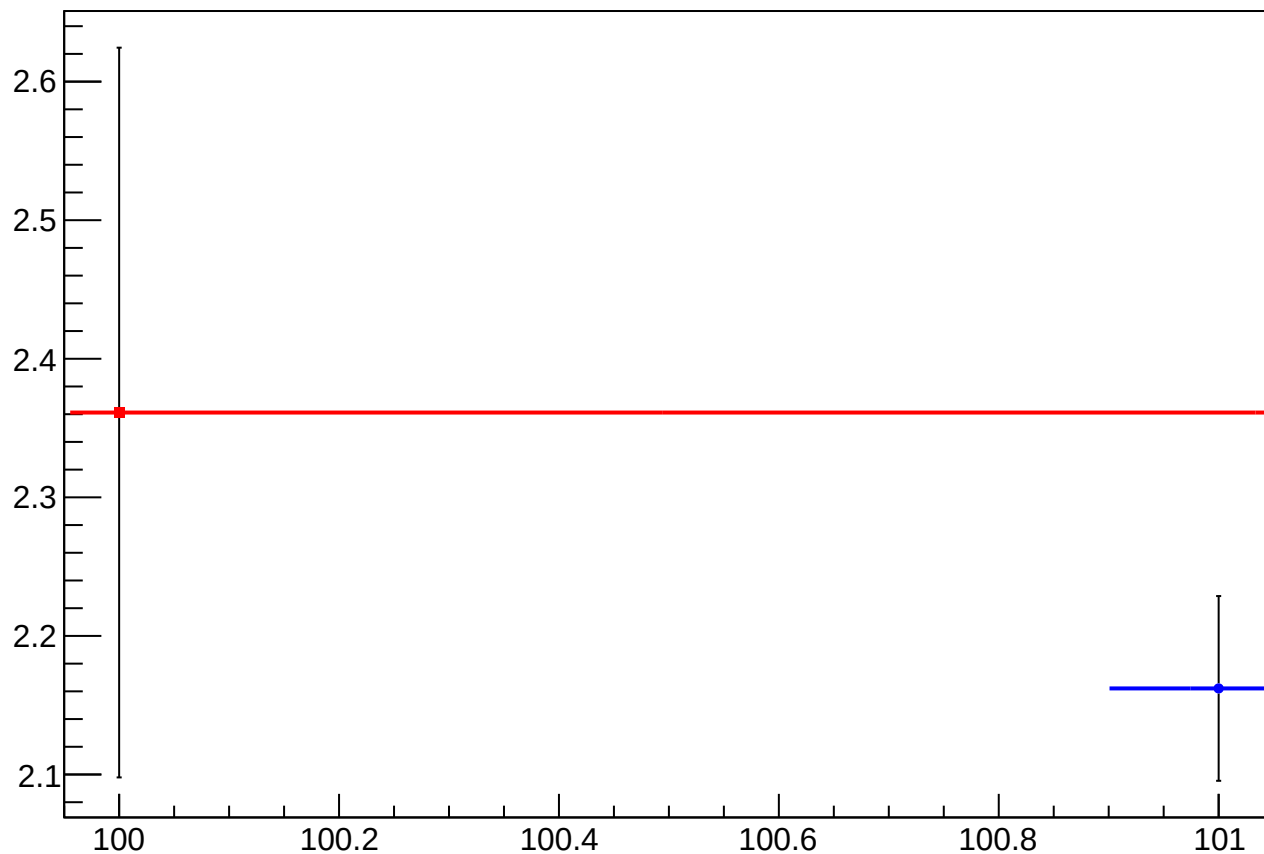
Right: -10.574 $\pm$ 1.461  $\chi^2$ /NDF: 0.3/1

In: -10.418 $\pm$ 1.489  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -10.574 $\pm$ 1.461  $\chi^2$ /NDF: 0.3/1

reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 2.162 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.361 $\pm$ 0.263  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

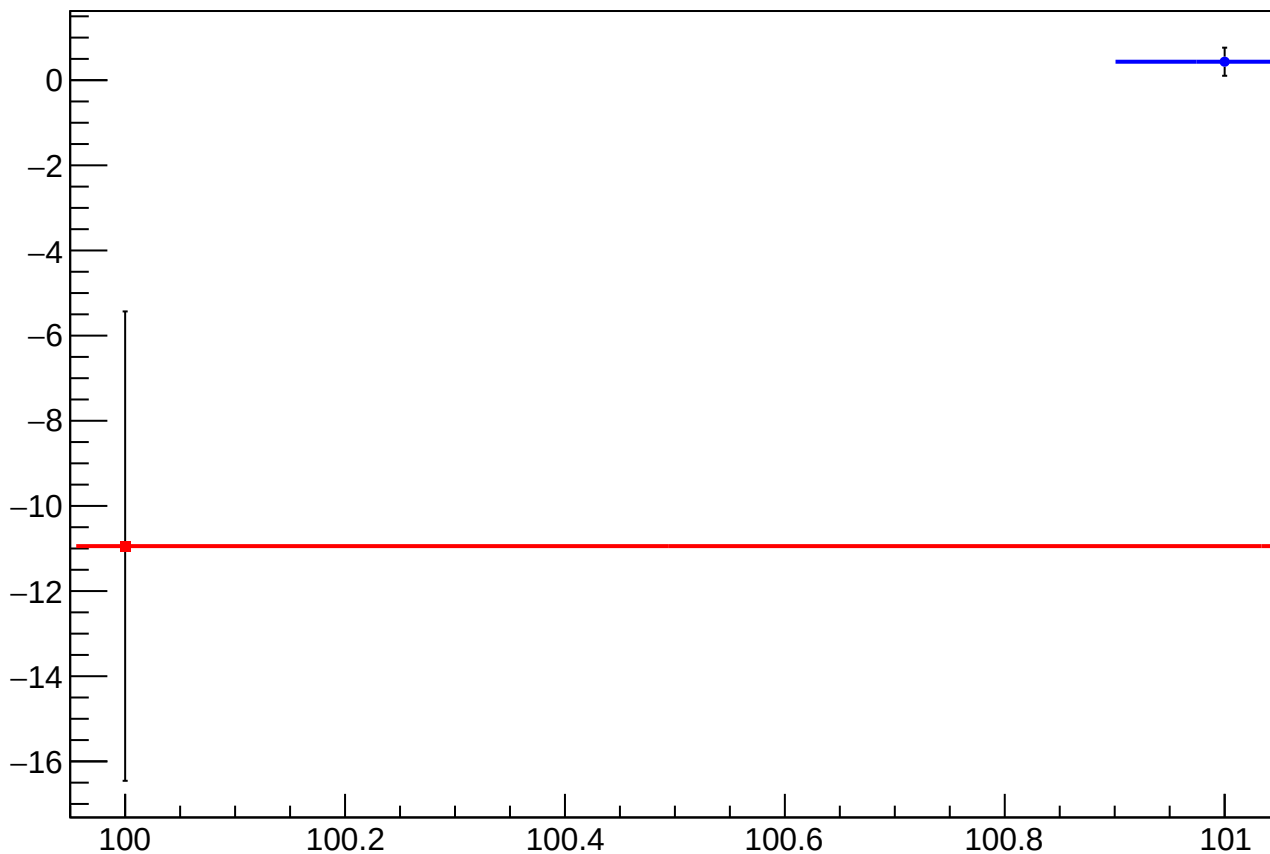
Right: 2.174 $\pm$ 0.065  $\chi^2$ /NDF: 0.5/1

In: 2.162 $\pm$ 0.067  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.174 $\pm$ 0.065  $\chi^2$ /NDF: 0.5/1

reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.433+/-0.330  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -10.944+/-5.512  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

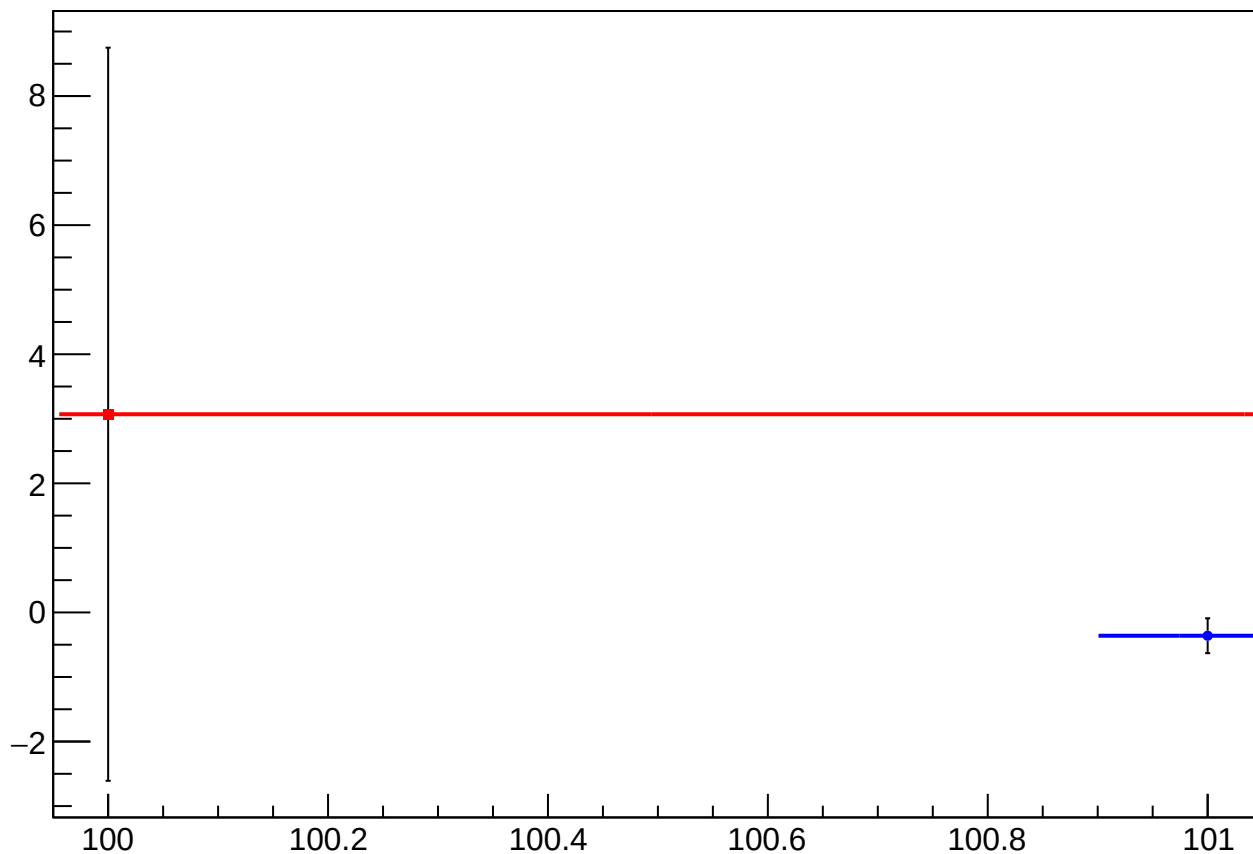
Right: 0.393+/-0.329  $\chi^2$ /NDF: 4.2/1

In: 0.433+/-0.330  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.393+/-0.329  $\chi^2$ /NDF: 4.2/1

reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.361 $\pm$ 0.270  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.071 $\pm$ 5.679  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

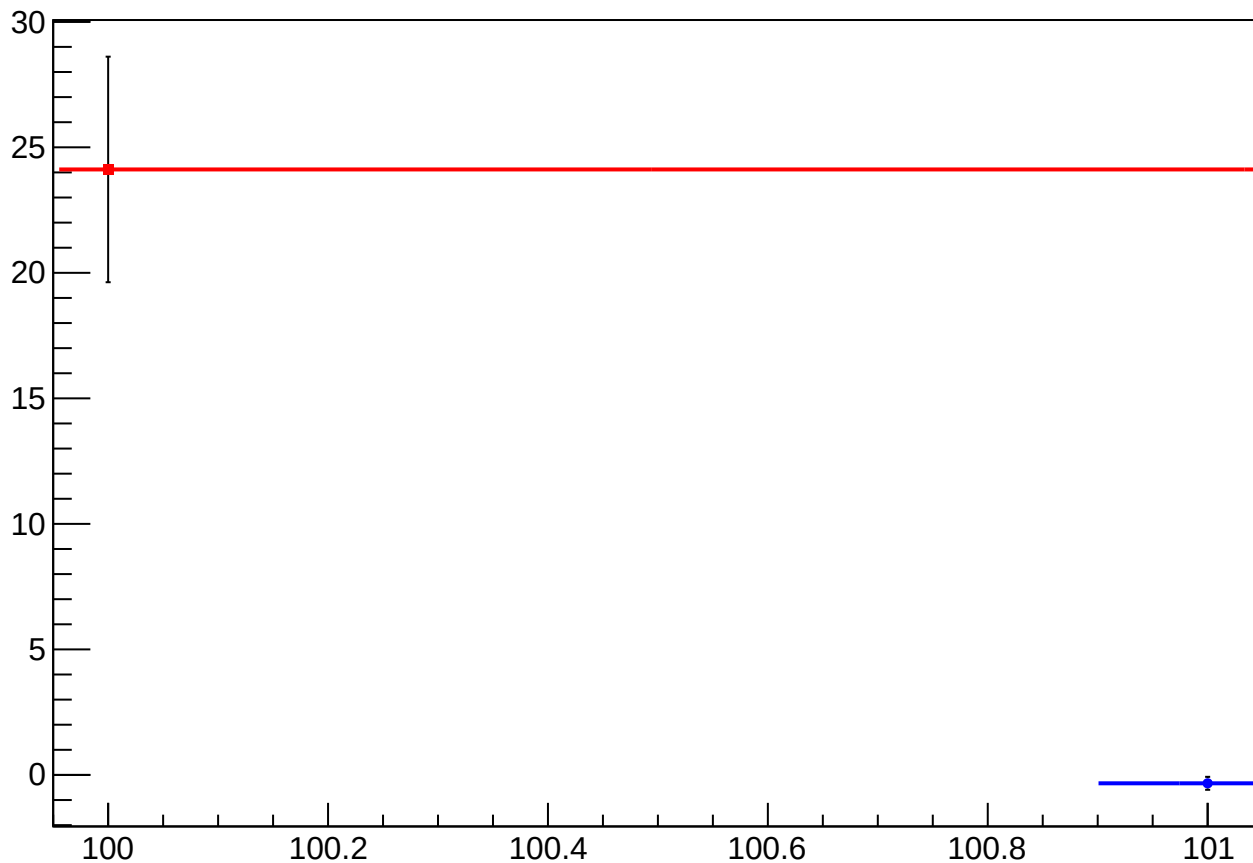
Right: -0.353 $\pm$ 0.270  $\chi^2/\text{NDF}$ : 0.4/1

In: -0.361 $\pm$ 0.270  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.353 $\pm$ 0.270  $\chi^2/\text{NDF}$ : 0.4/1

reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-0.334 \pm 0.258$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $24.118 \pm 4.492$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

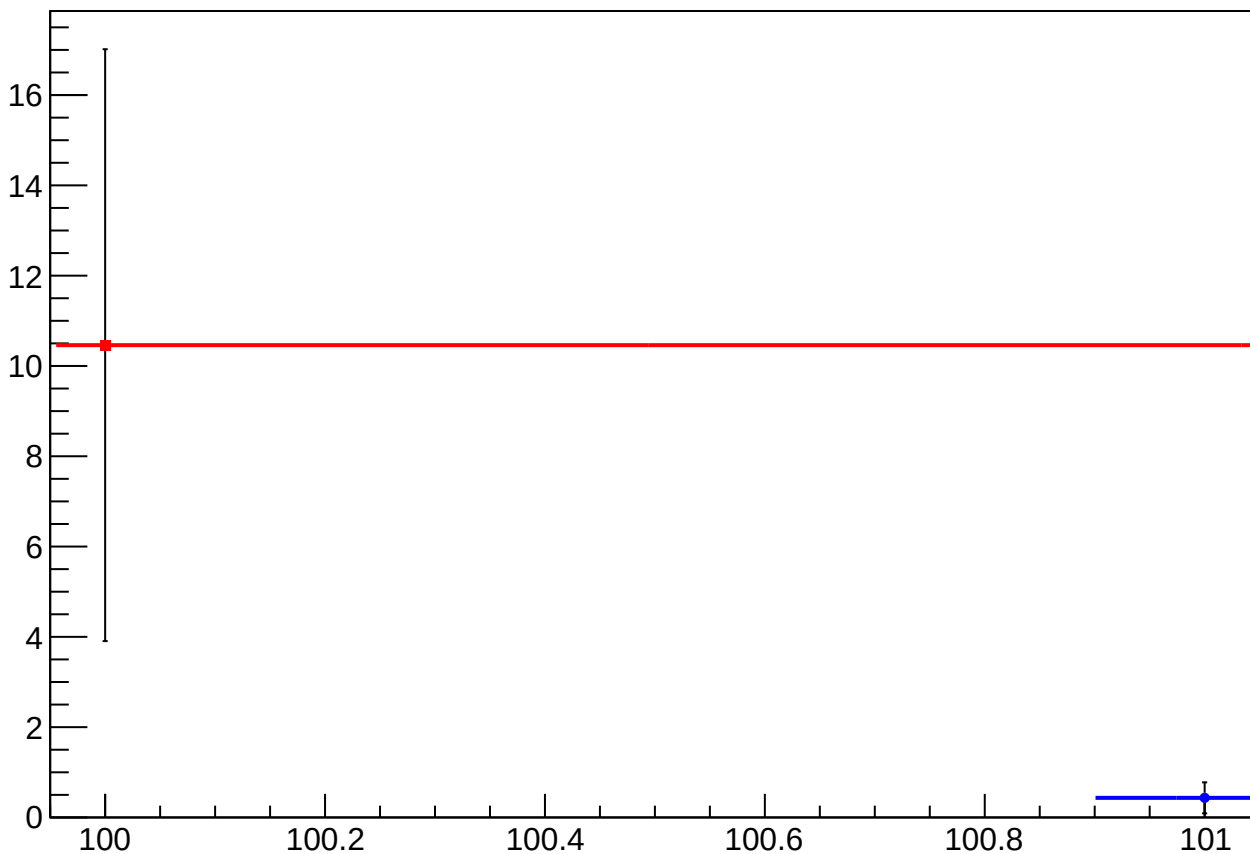
Right:  $-0.254 \pm 0.258$   $\chi^2/\text{NDF}: 29.5/1$

In:  $-0.334 \pm 0.258$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.254 \pm 0.258$   $\chi^2/\text{NDF}: 29.5/1$

reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.434 $\pm$ 0.344  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.461 $\pm$ 6.555  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 0.462 $\pm$ 0.343  $\chi^2$ /NDF: 2.3/1

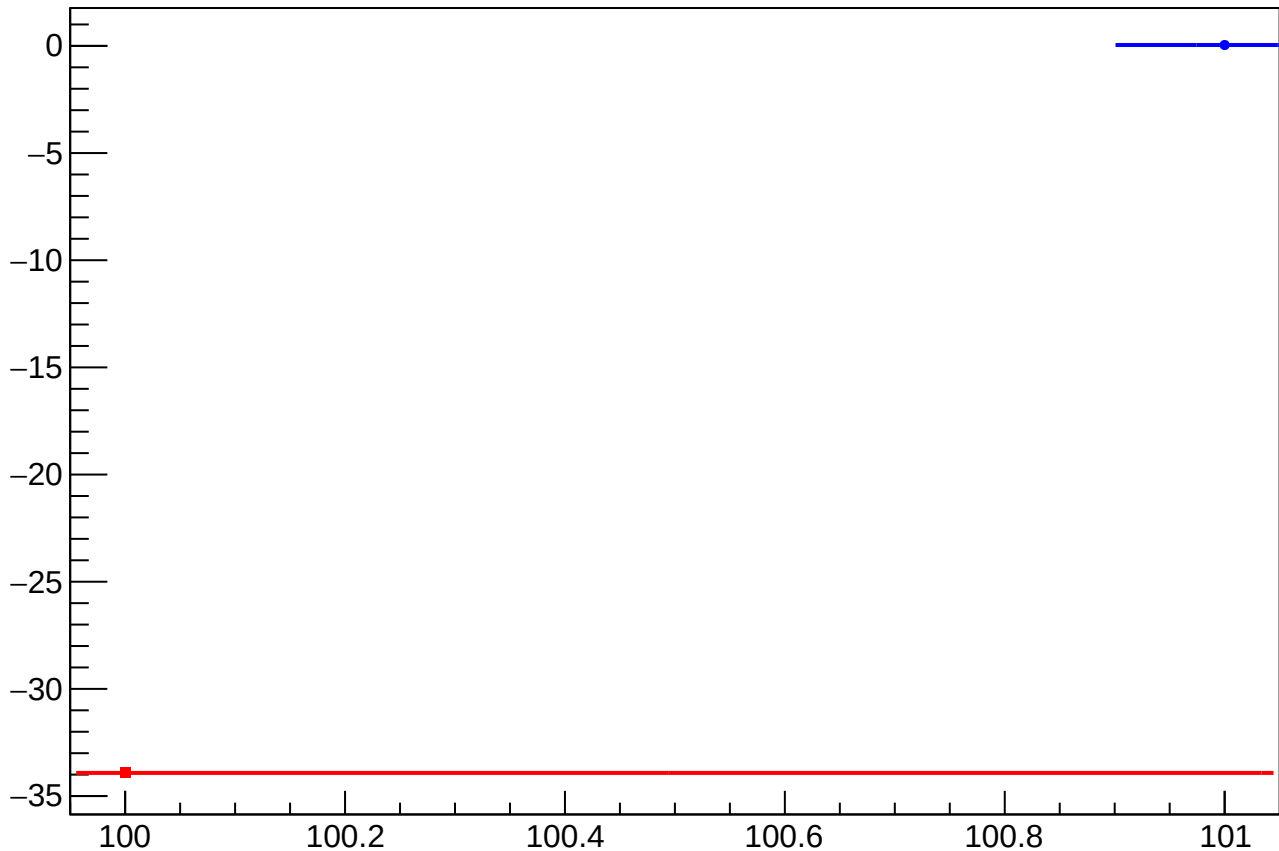
In: 0.434 $\pm$ 0.344  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.462 $\pm$ 0.343  $\chi^2$ /NDF: 2.3/1



reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.042 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.921 $\pm$ 0.228  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

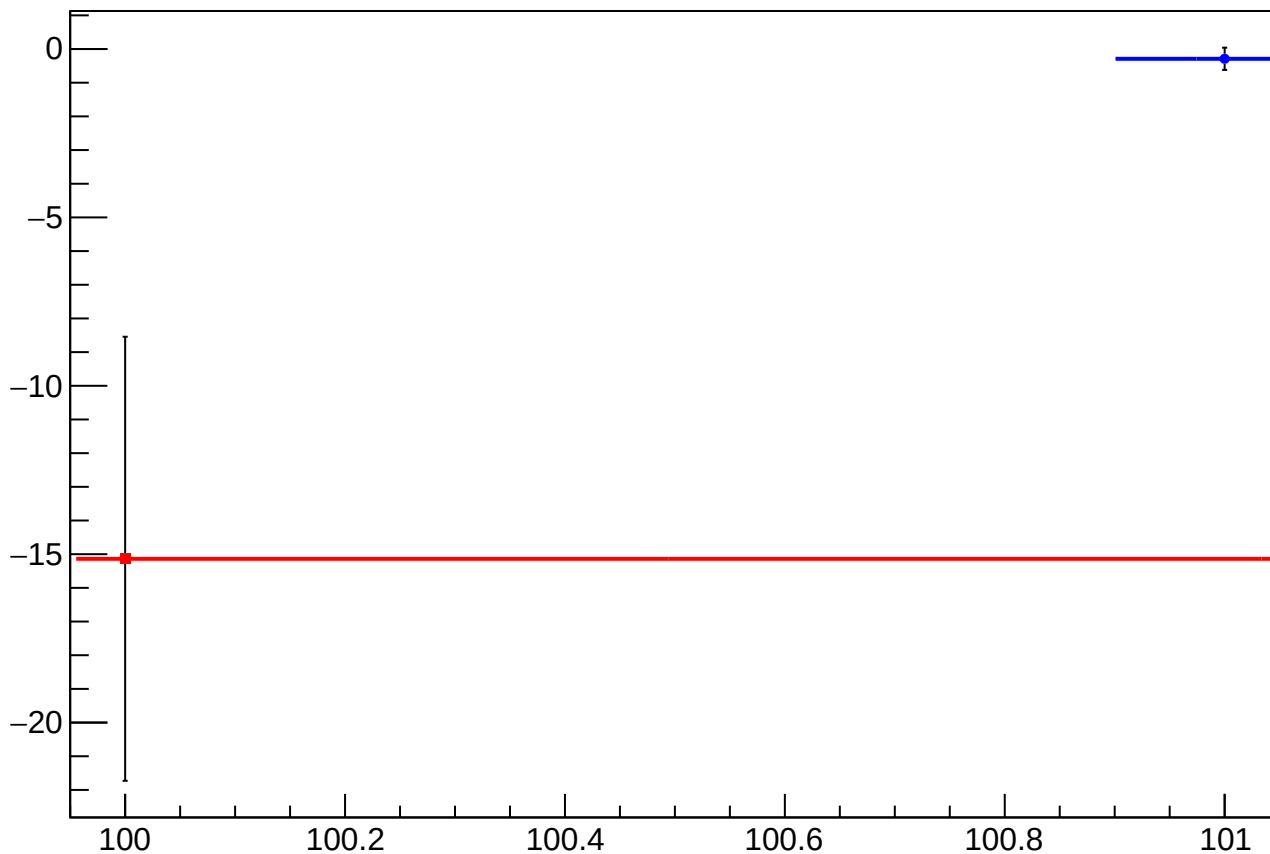
Right: -0.113 $\pm$ 0.015  $\chi^2$ /NDF: 22173.7/1

In: 0.042 $\pm$ 0.015  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.113 $\pm$ 0.015  $\chi^2$ /NDF: 22173.7/1

reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -0.290 $\pm$ 0.330  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -15.136 $\pm$ 6.593  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

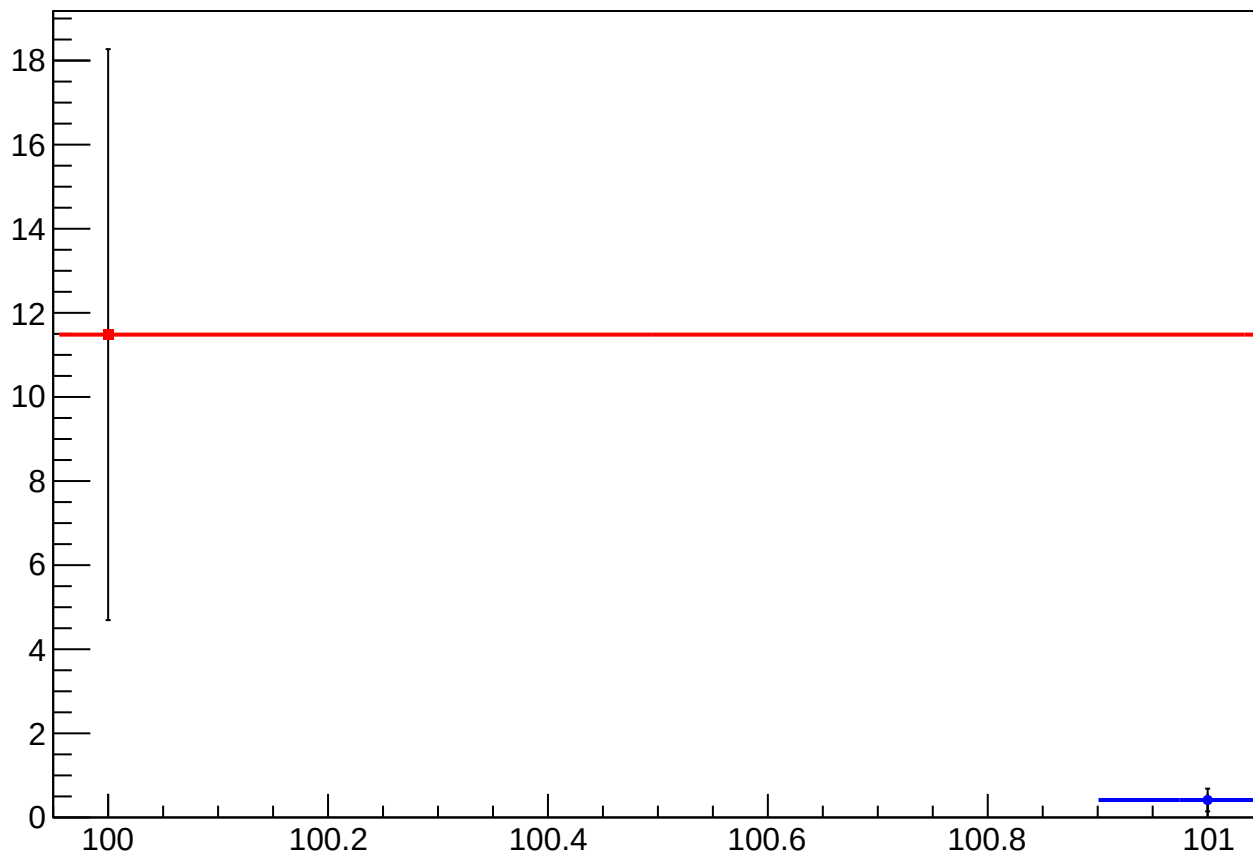
Right: -0.327 $\pm$ 0.330  $\chi^2$ /NDF: 5.1/1

In: -0.290 $\pm$ 0.330  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.327 $\pm$ 0.330  $\chi^2$ /NDF: 5.1/1

reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.415 $\pm$ 0.270  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.482 $\pm$ 6.789  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

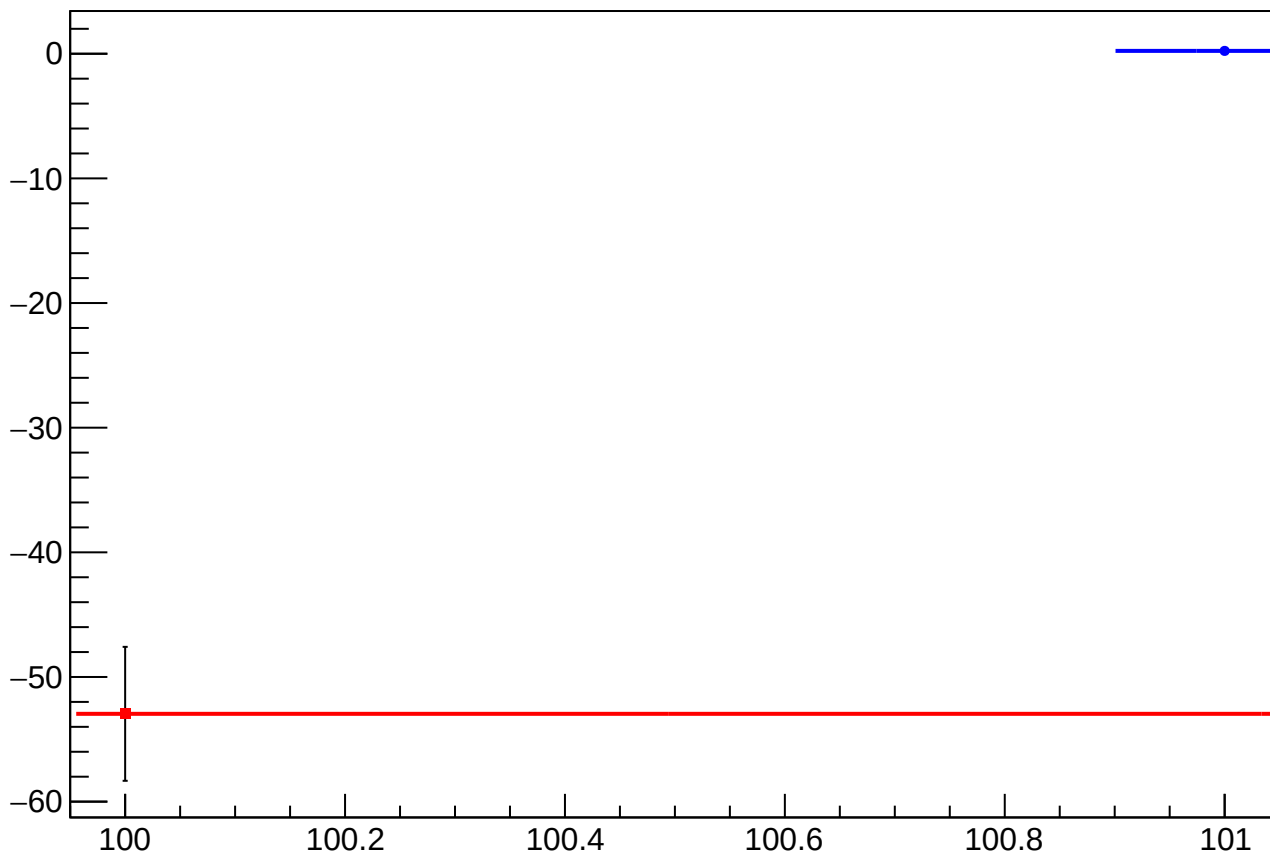
Right: 0.433 $\pm$ 0.270  $\chi^2$ /NDF: 2.7/1

In: 0.415 $\pm$ 0.270  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.433 $\pm$ 0.270  $\chi^2$ /NDF: 2.7/1

reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.228+/-0.258  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -52.956+/-5.373  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

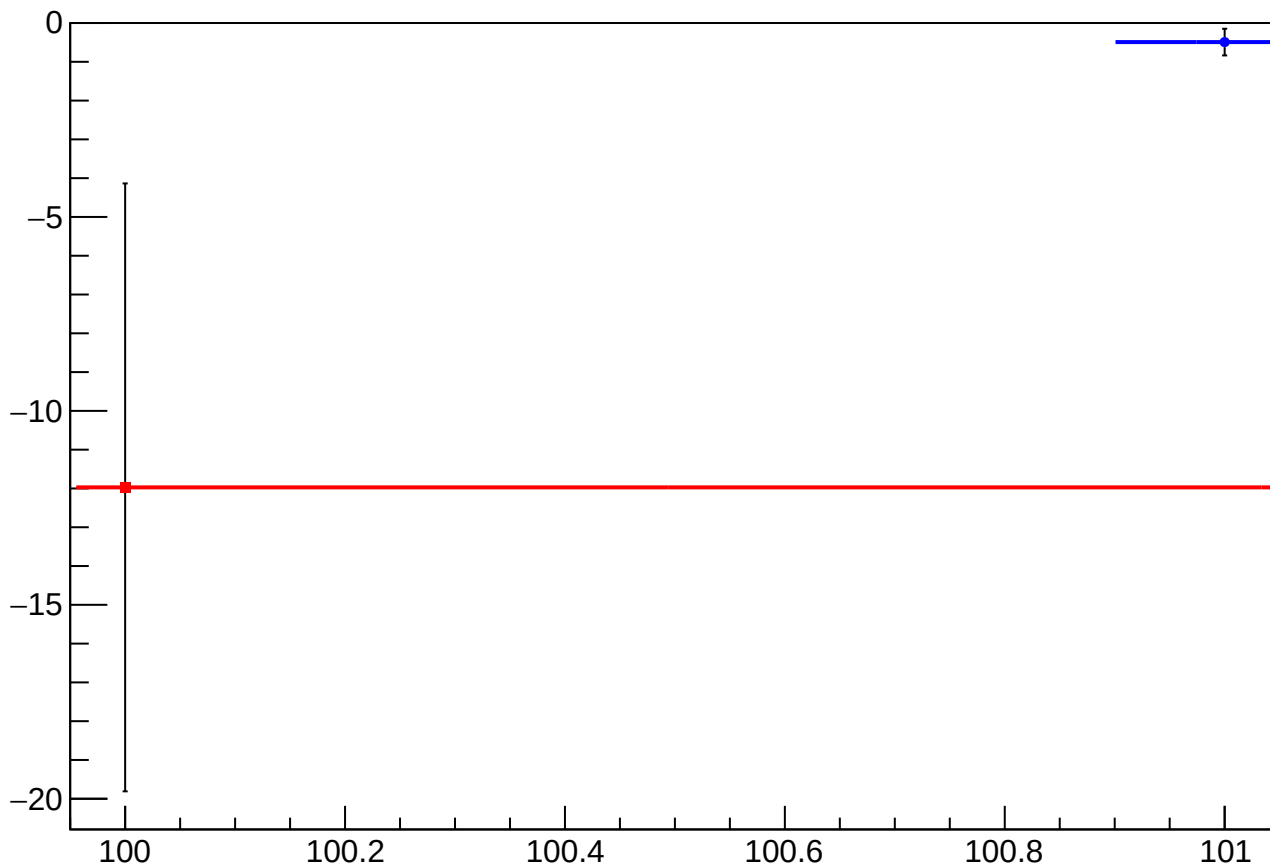
Right: 0.106+/-0.258  $\chi^2/\text{NDF}$ : 97.8/1

In: 0.228+/-0.258  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.106+/-0.258  $\chi^2/\text{NDF}$ : 97.8/1

reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -0.492+/-0.344  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.972+/-7.837  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

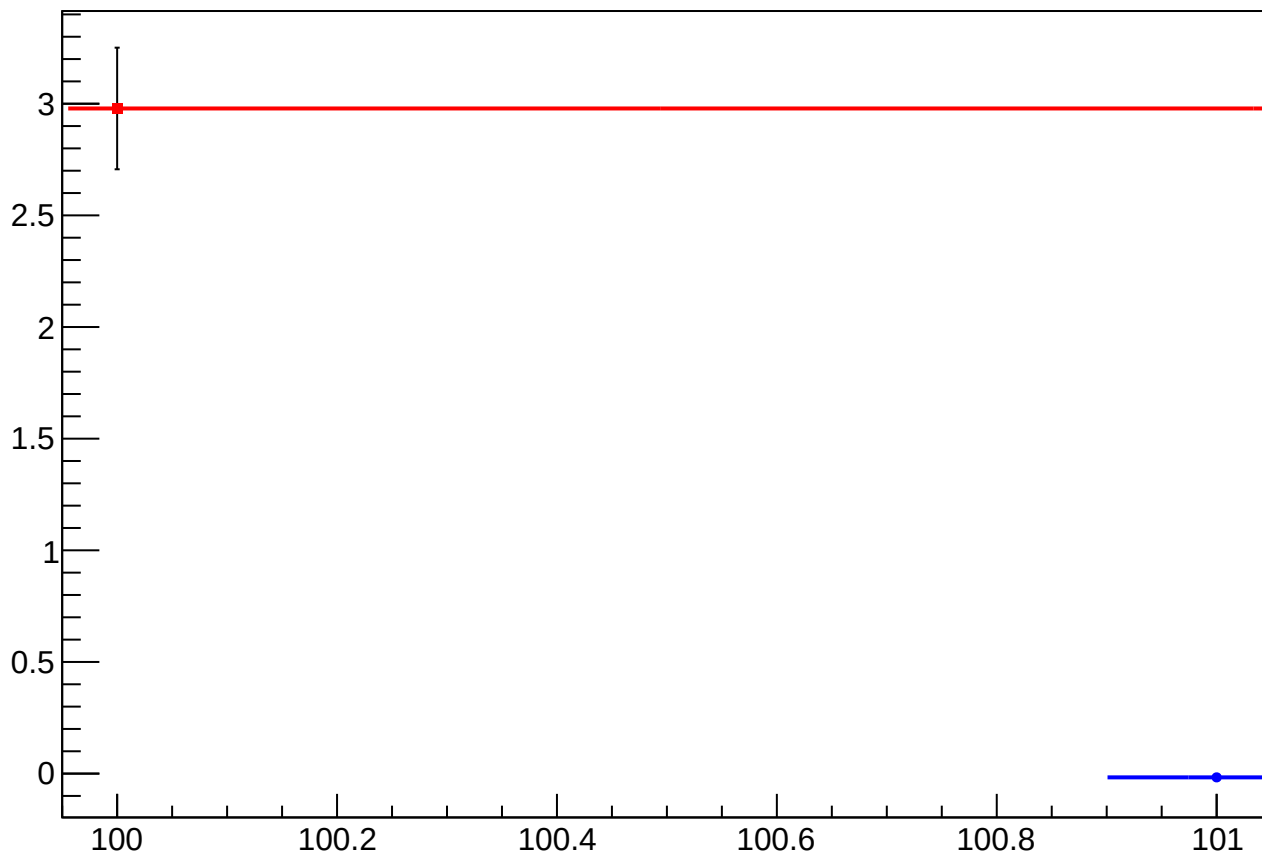
Right: -0.514+/-0.343  $\chi^2/\text{NDF}$ : 2.1/1

In: -0.492+/-0.344  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.514+/-0.343  $\chi^2/\text{NDF}$ : 2.1/1

reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.017 \pm 0.015$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $2.979 \pm 0.272$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

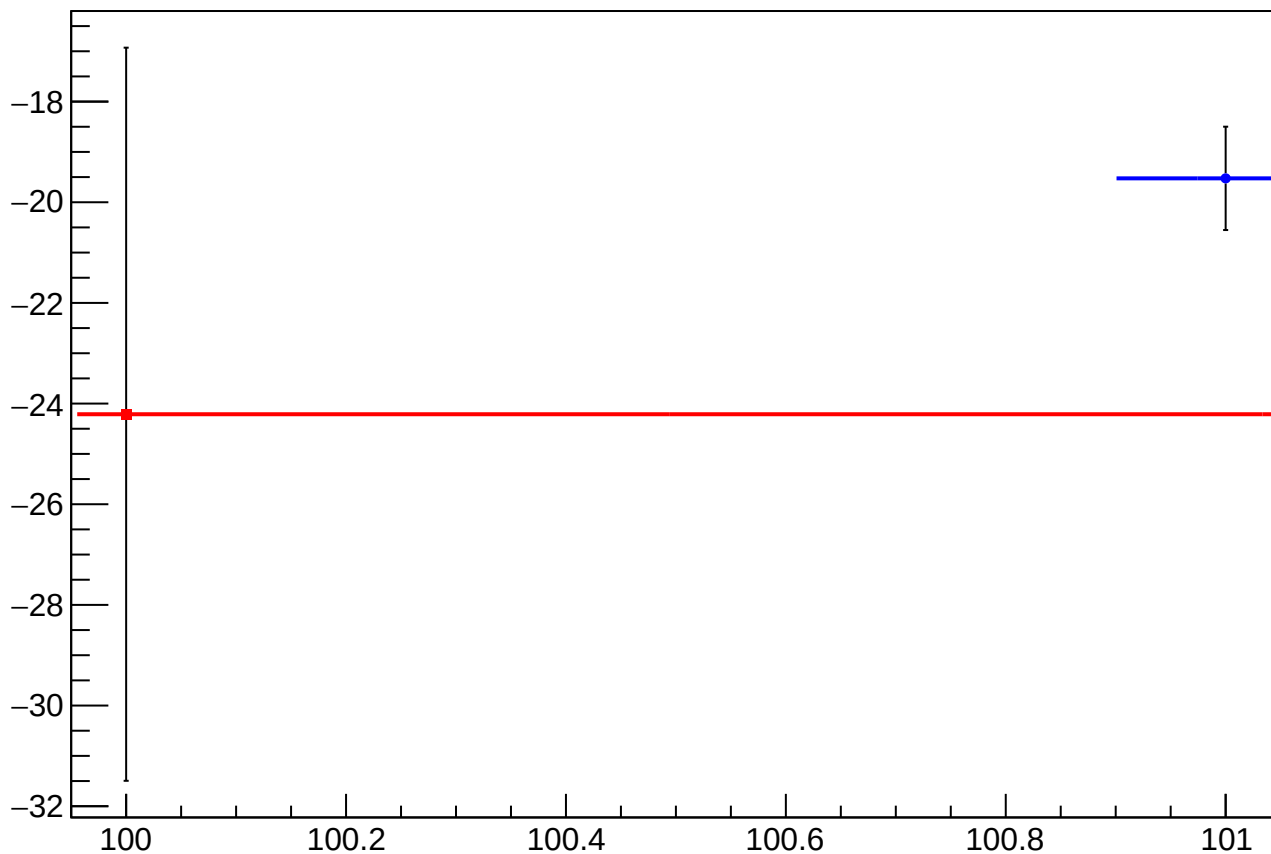
Right:  $-0.007 \pm 0.015$   $\chi^2/\text{NDF}: 120.6/1$

In:  $-0.017 \pm 0.015$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.007 \pm 0.015$   $\chi^2/\text{NDF}: 120.6/1$

reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -19.525 $\pm$ 1.027  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -24.212 $\pm$ 7.283  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

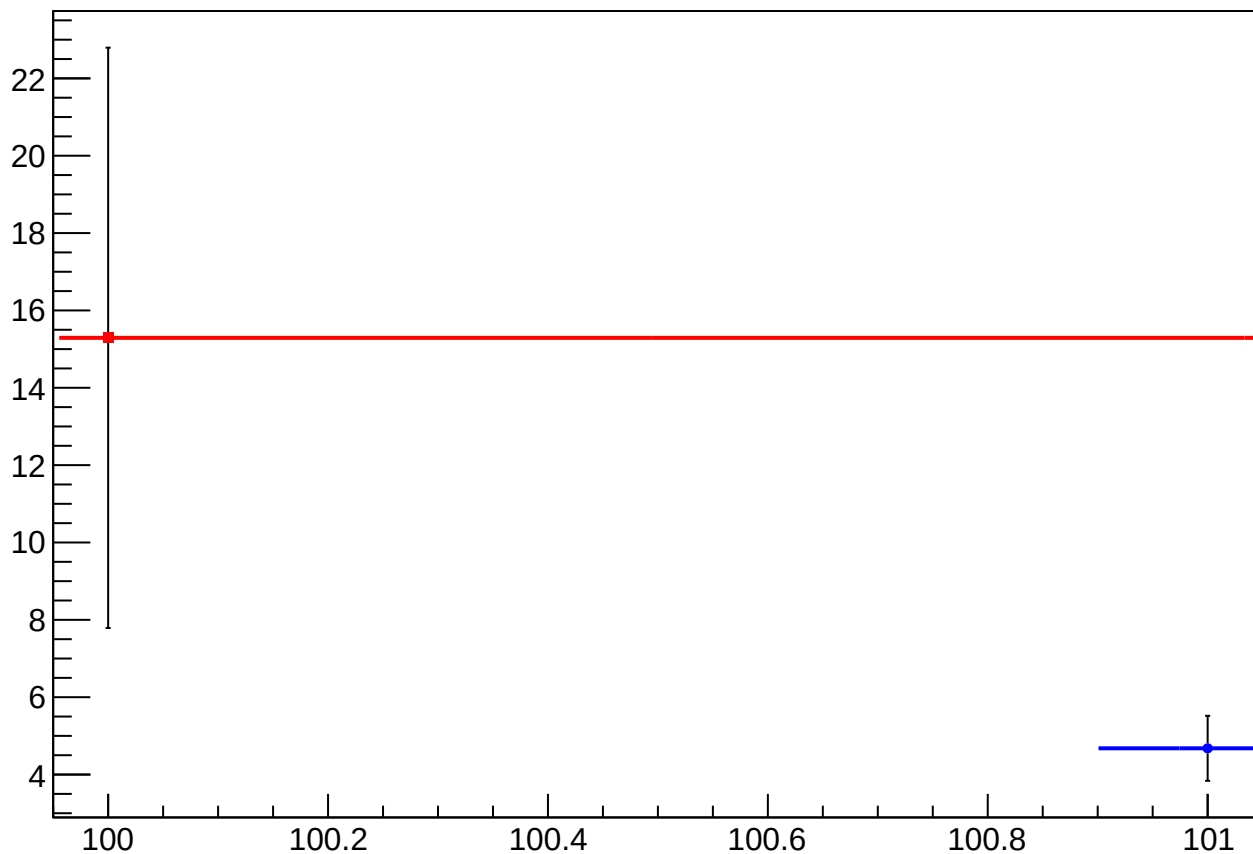
Right: -19.617 $\pm$ 1.017  $\chi^2$ /NDF: 0.4/1

In: -19.525 $\pm$ 1.027  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -19.617 $\pm$ 1.017  $\chi^2$ /NDF: 0.4/1

reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.679+/-0.840  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 15.291+/-7.503  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 4.810+/-0.835  $\chi^2/\text{NDF}$ : 2.0/1

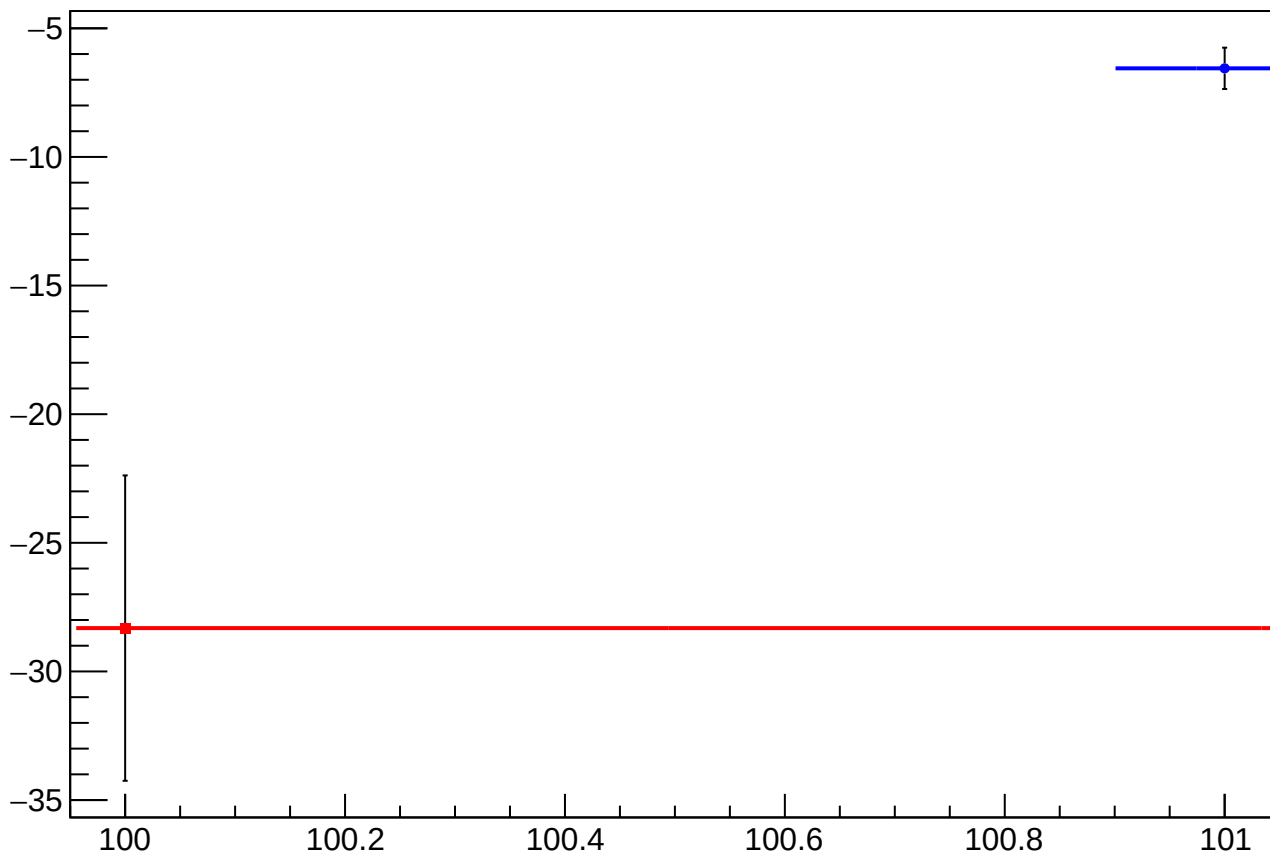
In: 4.679+/-0.840  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.810+/-0.835  $\chi^2/\text{NDF}$ : 2.0/1



reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -6.556 $\pm$ 0.803  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -28.315 $\pm$ 5.935  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

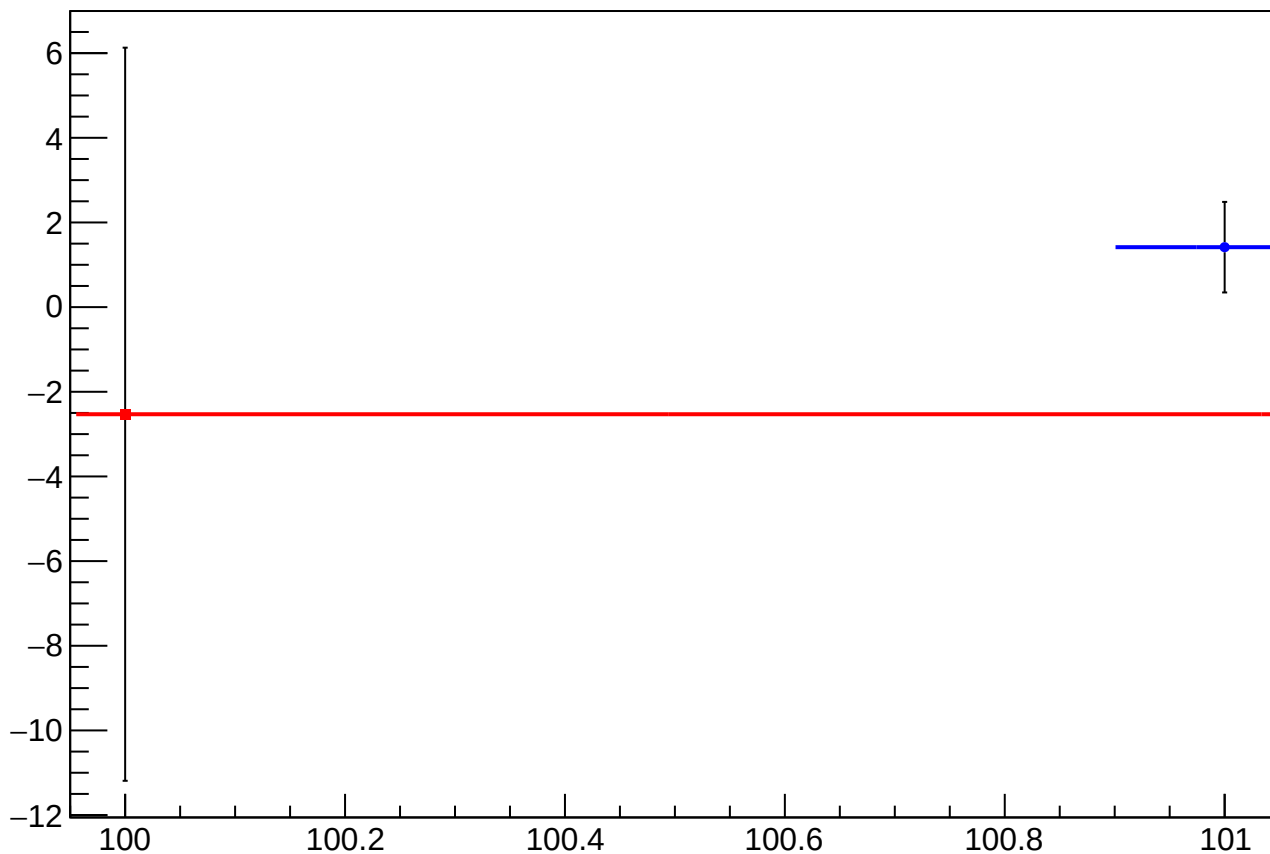
Right: -6.948 $\pm$ 0.796  $\chi^2/\text{NDF}$ : 13.2/1

In: -6.556 $\pm$ 0.803  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.948 $\pm$ 0.796  $\chi^2/\text{NDF}$ : 13.2/1

reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 1.416+/-1.070  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.530+/-8.660  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

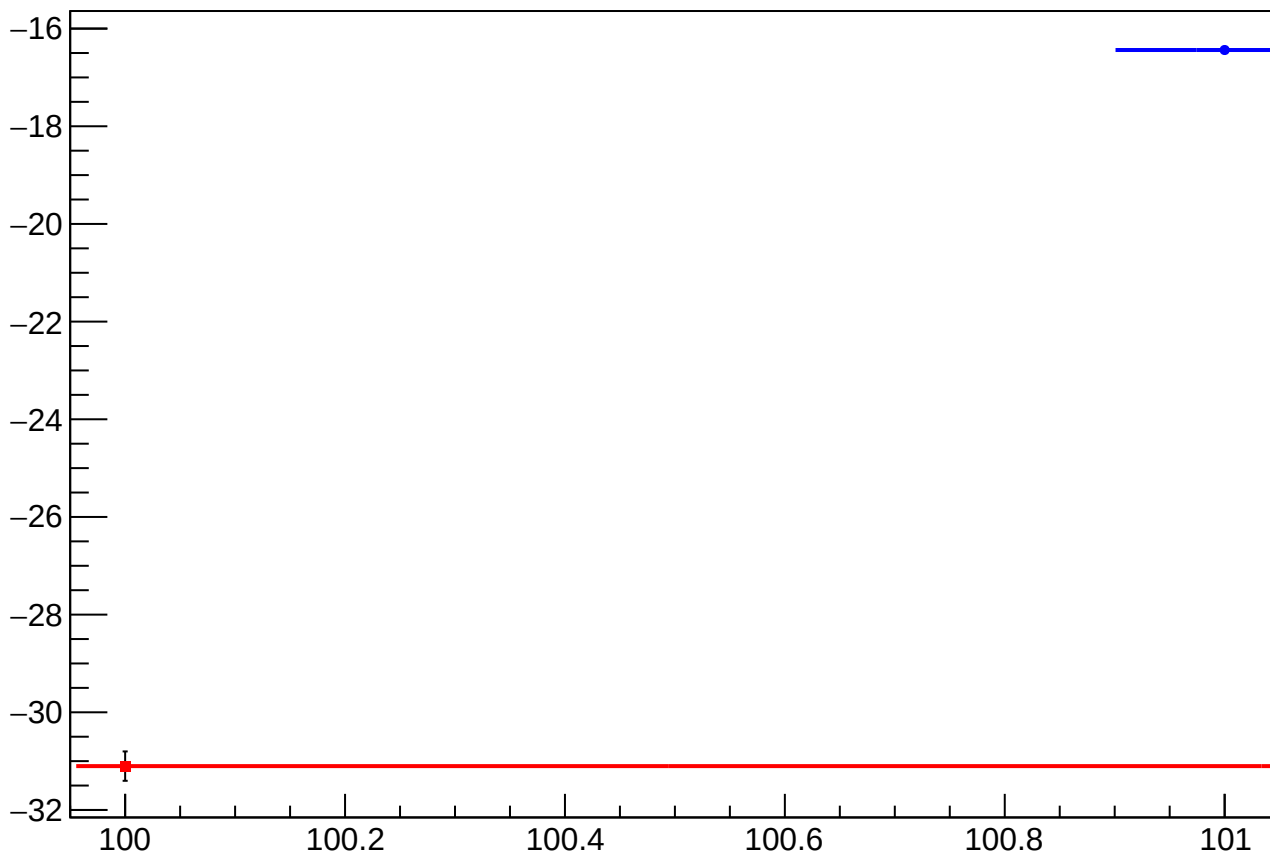
Right: 1.357+/-1.062  $\chi^2/\text{NDF}$ : 0.2/1

In: 1.416+/-1.070  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.357+/-1.062  $\chi^2/\text{NDF}$ : 0.2/1

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -16.439 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -31.102 $\pm$ 0.301  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

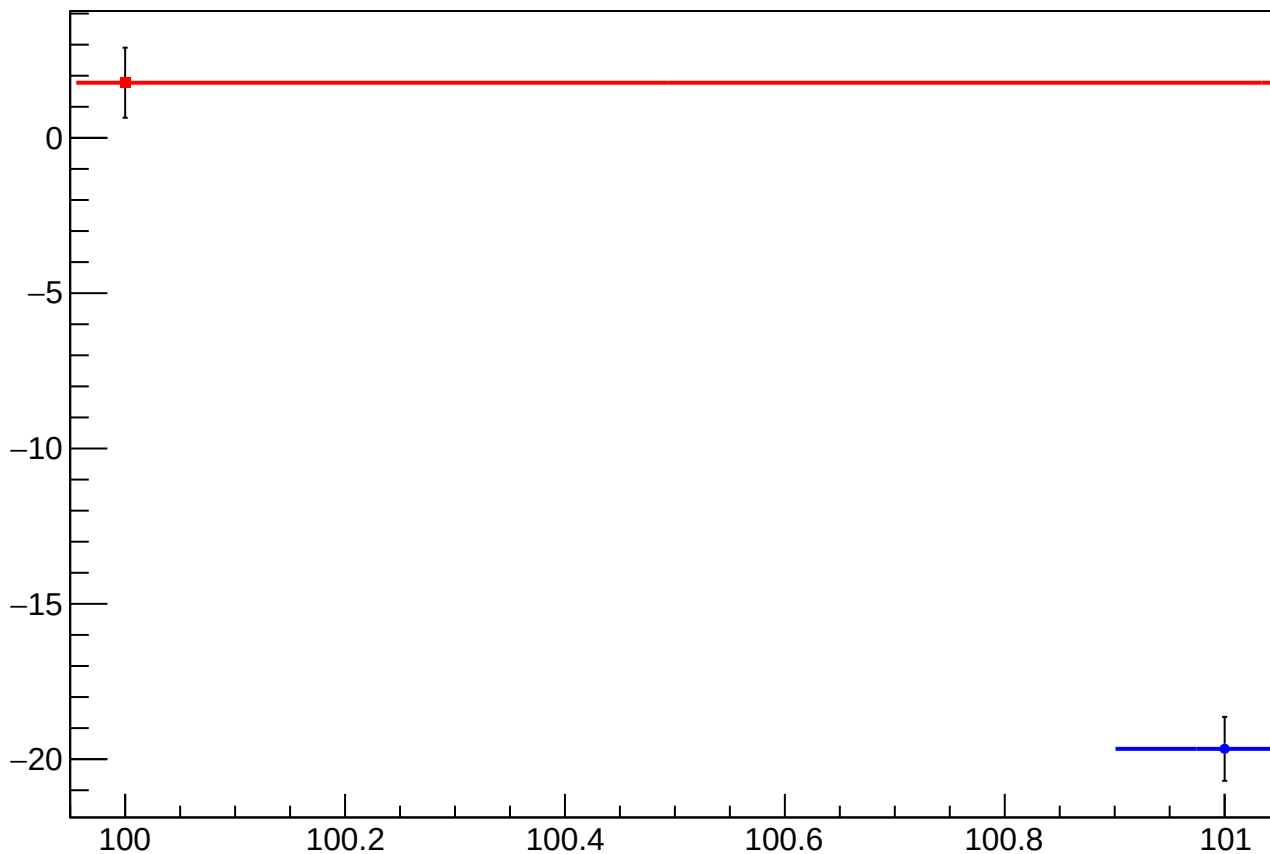
Right: -16.801 $\pm$ 0.047  $\chi^2$ /NDF: 2318.6/1

In: -16.439 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -16.801 $\pm$ 0.047  $\chi^2$ /NDF: 2318.6/1

reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -19.668+/-1.028  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.775+/-1.128  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

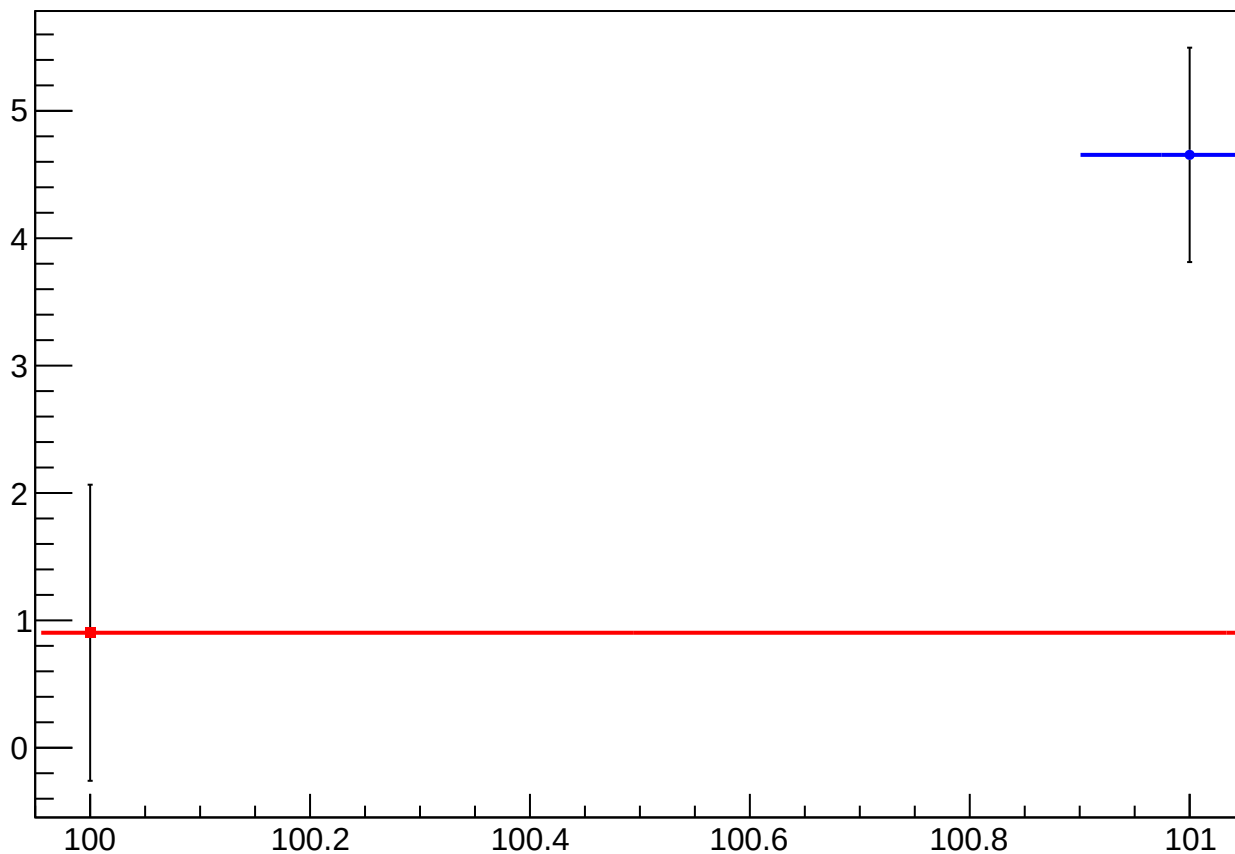
Right: -9.937+/-0.760  $\chi^2/\text{NDF}$ : 197.3/1

In: -19.668+/-1.028  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.937+/-0.760  $\chi^2/\text{NDF}$ : 197.3/1

reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.654 $\pm$ 0.842  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.903 $\pm$ 1.162  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

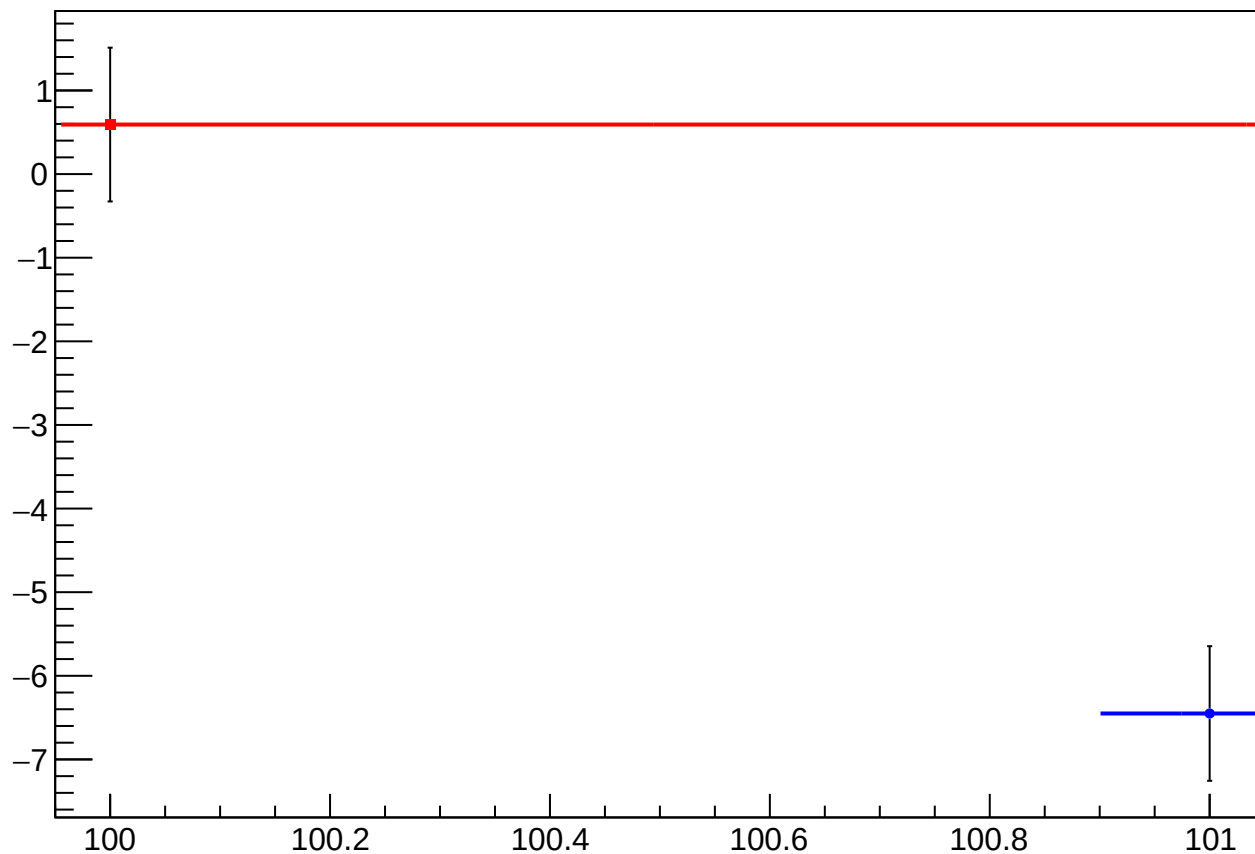
Right: 3.364 $\pm$ 0.682  $\chi^2$ /NDF: 6.8/1

In: 4.654 $\pm$ 0.842  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.364 $\pm$ 0.682  $\chi^2$ /NDF: 6.8/1

reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -6.451+/-0.805  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.592+/-0.920  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

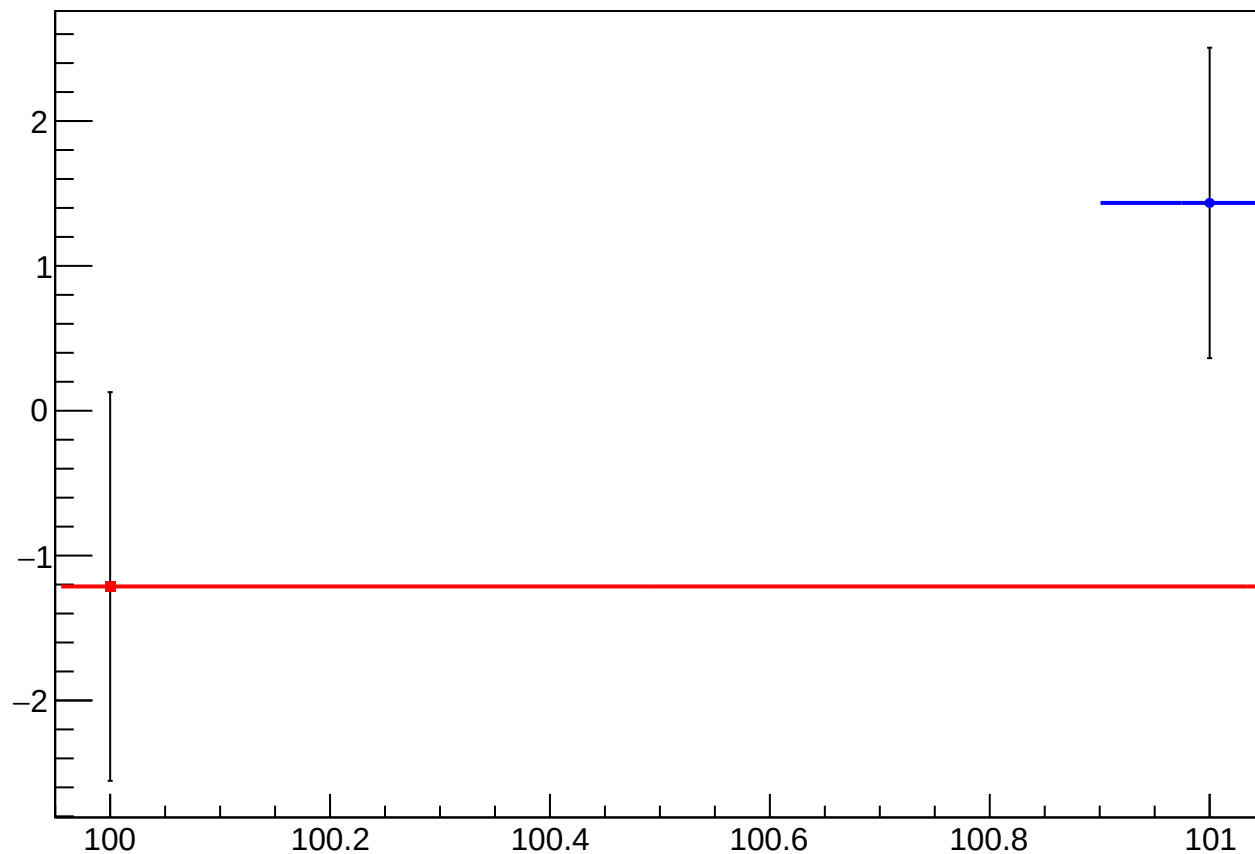
Right: -3.395+/-0.606  $\chi^2/\text{NDF}$ : 33.2/1

In: -6.451+/-0.805  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.395+/-0.606  $\chi^2/\text{NDF}$ : 33.2/1

reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 1.435+/-1.072  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.213+/-1.342  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

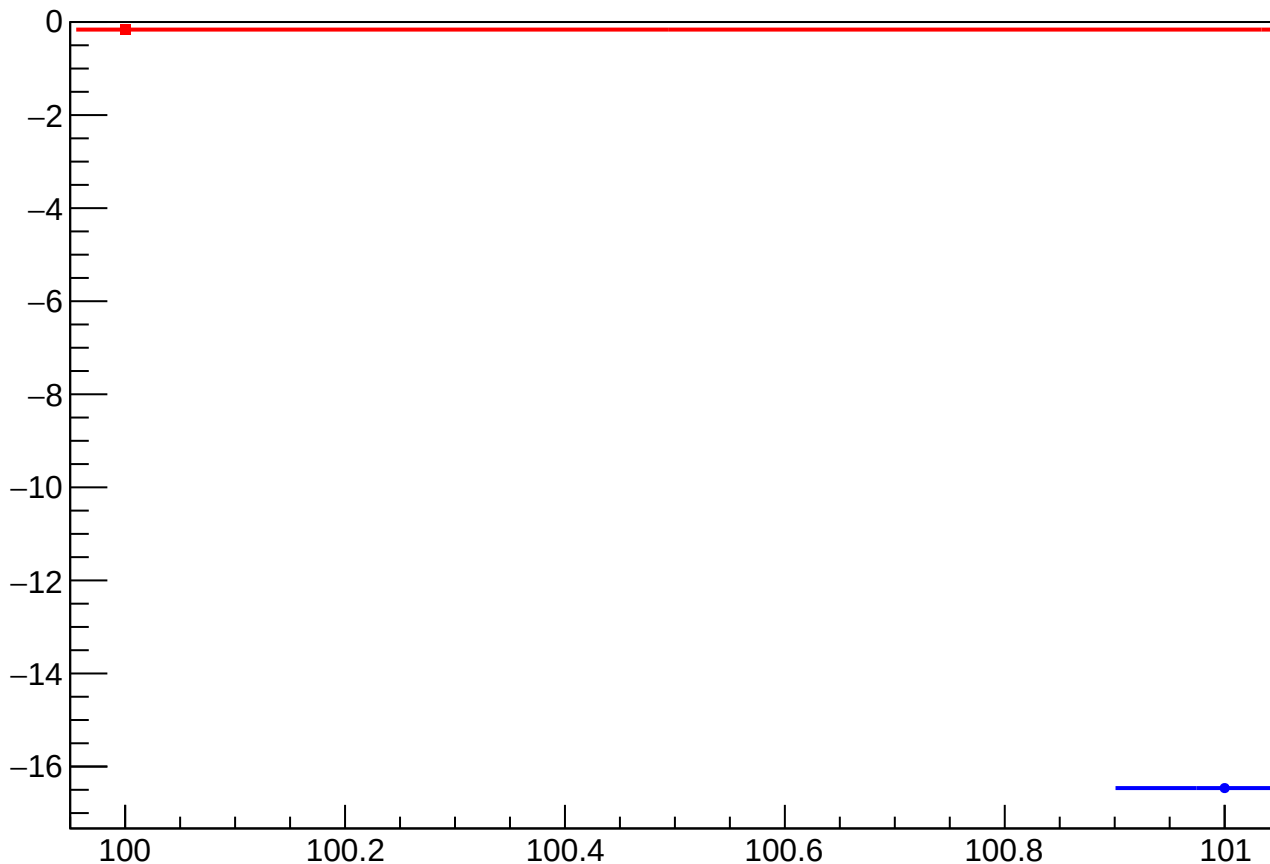
Right: 0.403+/-0.837  $\chi^2/\text{NDF}$ : 2.4/1

In: 1.435+/-1.072  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.403+/-0.837  $\chi^2/\text{NDF}$ : 2.4/1

reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -16.463 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.163 $\pm$ 0.047  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -8.077 $\pm$ 0.033  $\chi^2$ /NDF: 59425.1/1

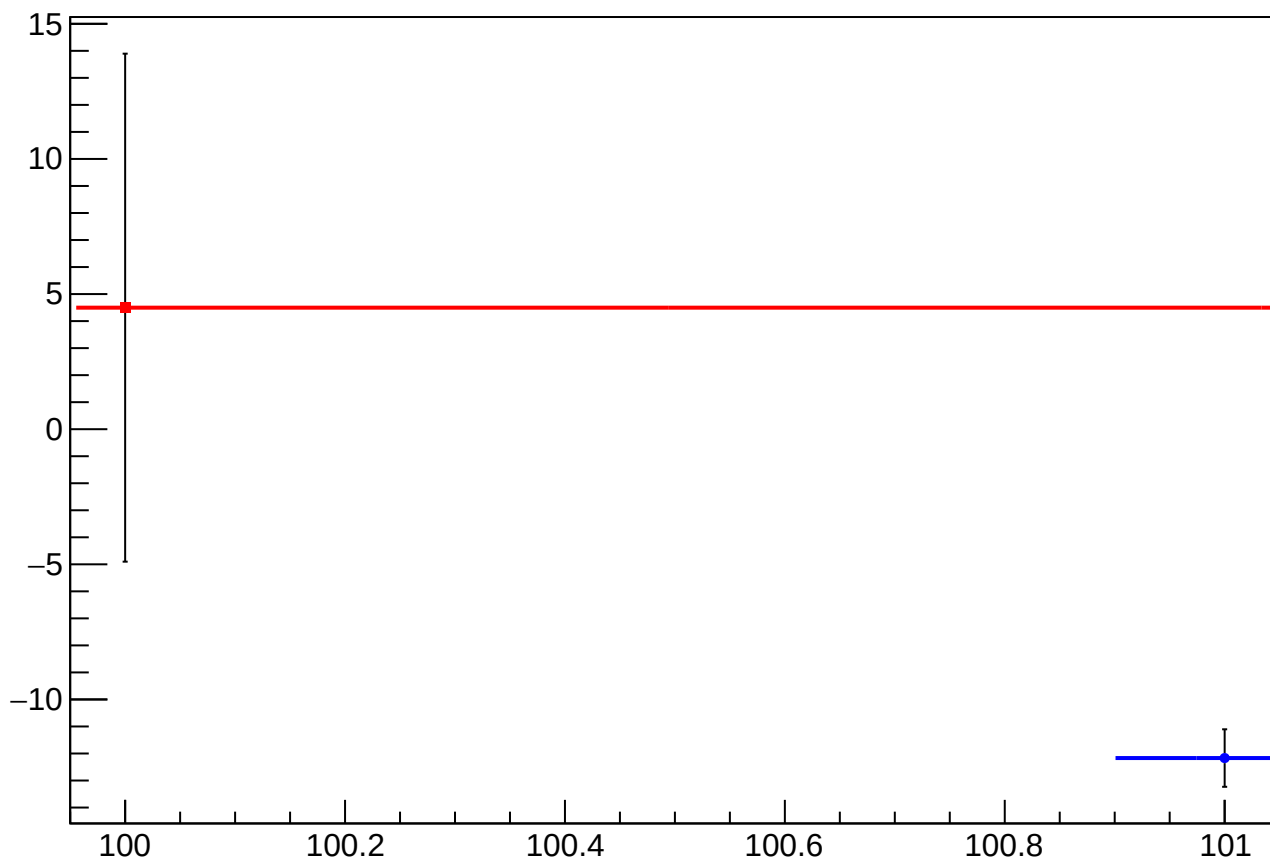
In: -16.463 $\pm$ 0.048  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -8.077 $\pm$ 0.033  $\chi^2$ /NDF: 59425.1/1



reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -12.168 $\pm$ 1.064  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 4.497 $\pm$ 9.398  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

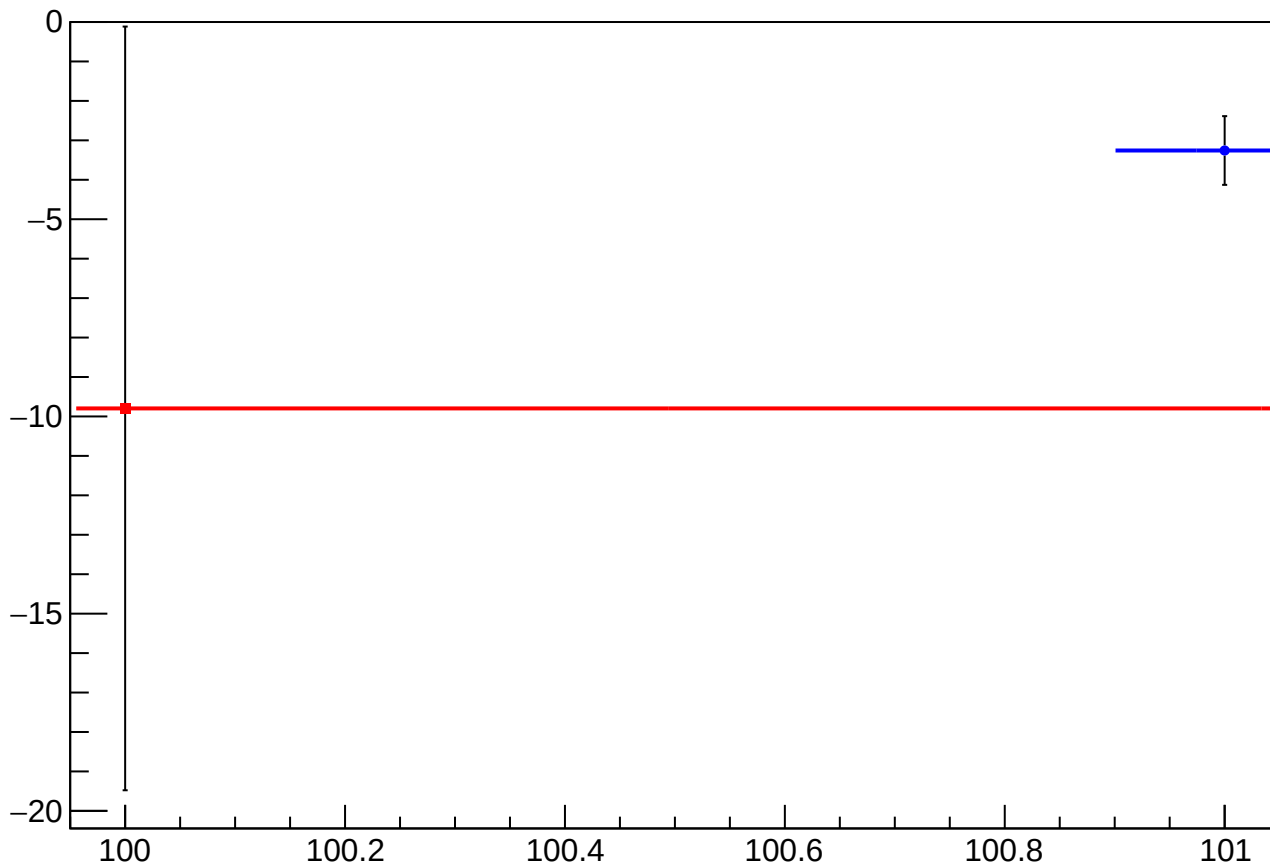
Right: -11.958 $\pm$ 1.057  $\chi^2$ /NDF: 3.1/1

In: -12.168 $\pm$ 1.064  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.958 $\pm$ 1.057  $\chi^2$ /NDF: 3.1/1

reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.257±/-0.871  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -9.797±/-9.681  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

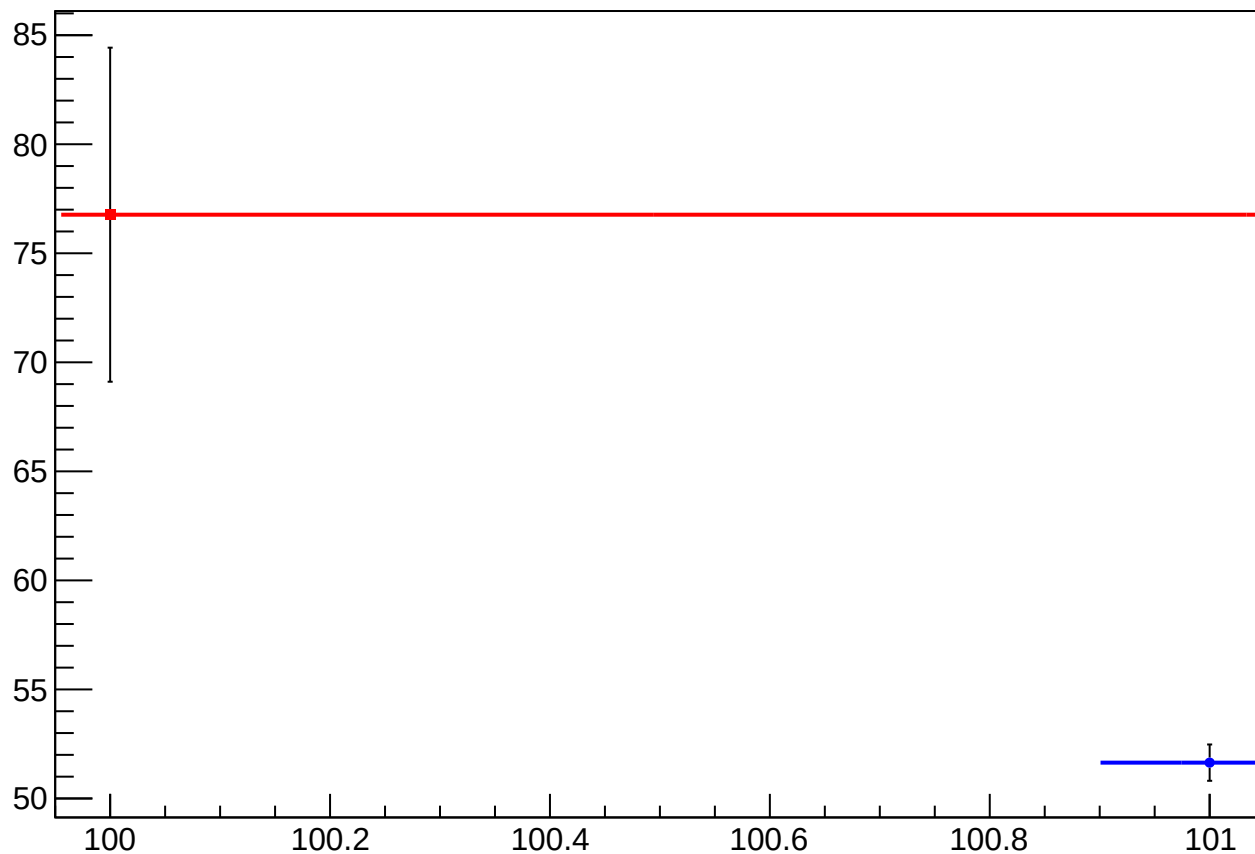
Right: -3.310±/-0.868  $\chi^2$ /NDF: 0.5/1

In: -3.257±/-0.871  $\chi^2$ /NDF:0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

All: -3.310±/-0.868  $\chi^2$ /NDF: 0.5/1

reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 51.643 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 76.769 $\pm$ 7.659  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

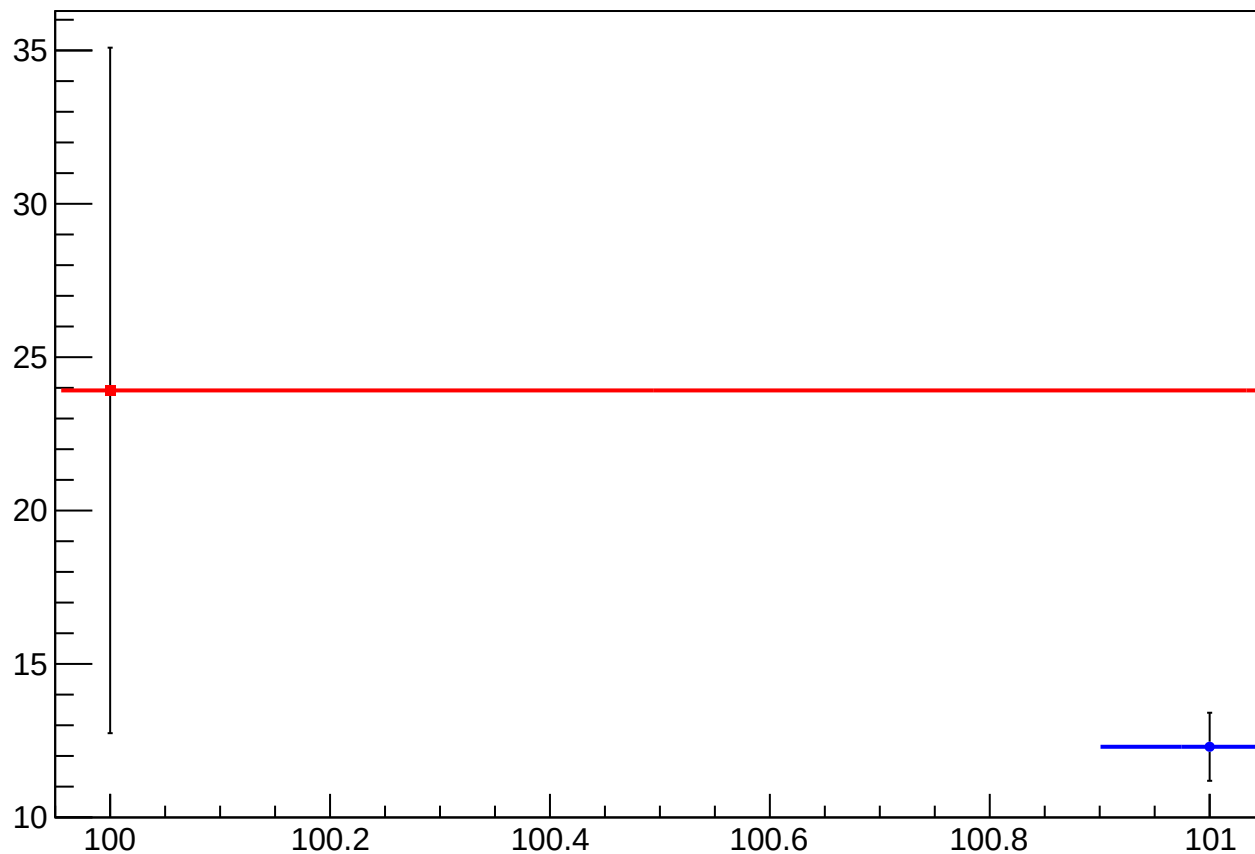
Right: 51.937 $\pm$ 0.828  $\chi^2$ /NDF: 10.6/1

In: 51.643 $\pm$ 0.833  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 51.937 $\pm$ 0.828  $\chi^2$ /NDF: 10.6/1

reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 12.299+/-1.109  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.916+/-11.174  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

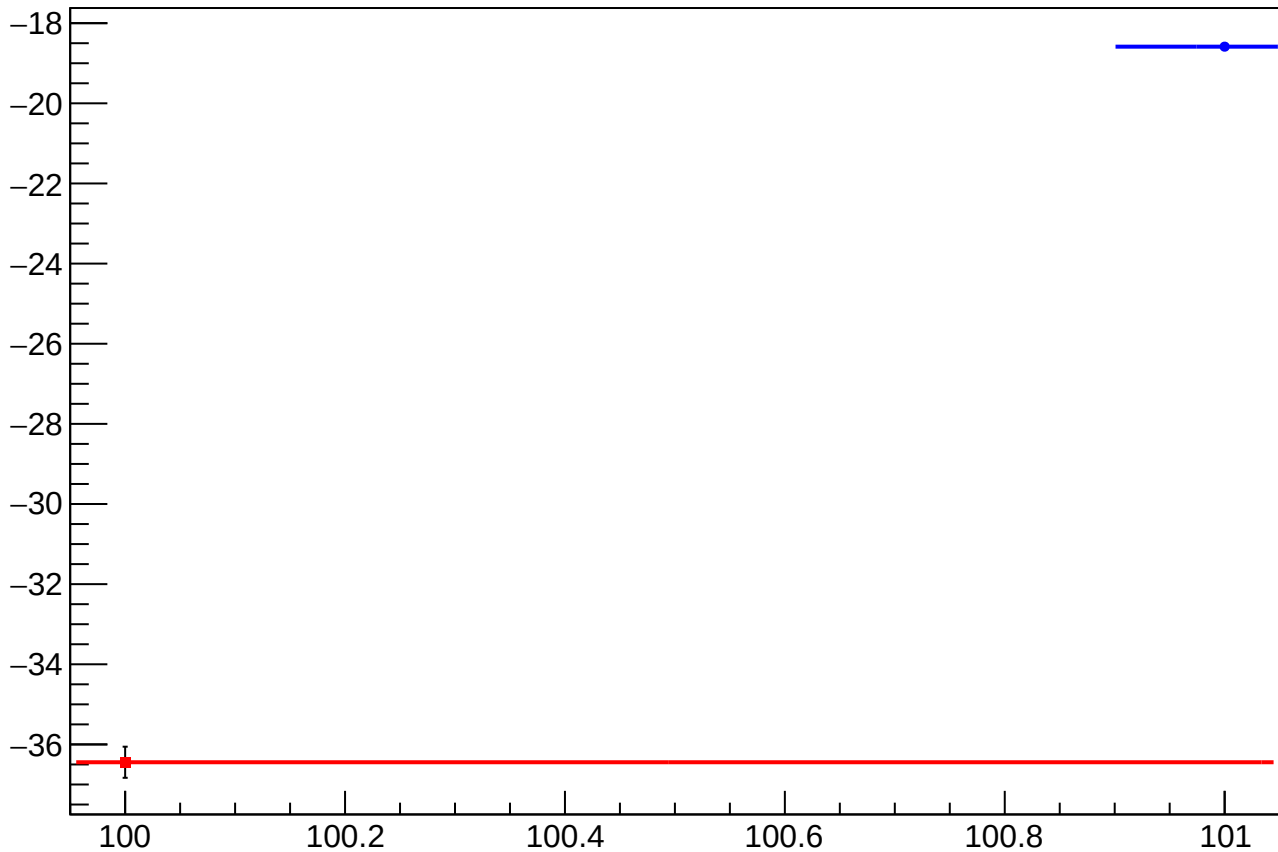
Right: 12.412+/-1.104  $\chi^2/\text{NDF}$ : 1.1/1

In: 12.299+/-1.109  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.412+/-1.104  $\chi^2/\text{NDF}$ : 1.1/1

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -18.586+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -36.445+/-0.388  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

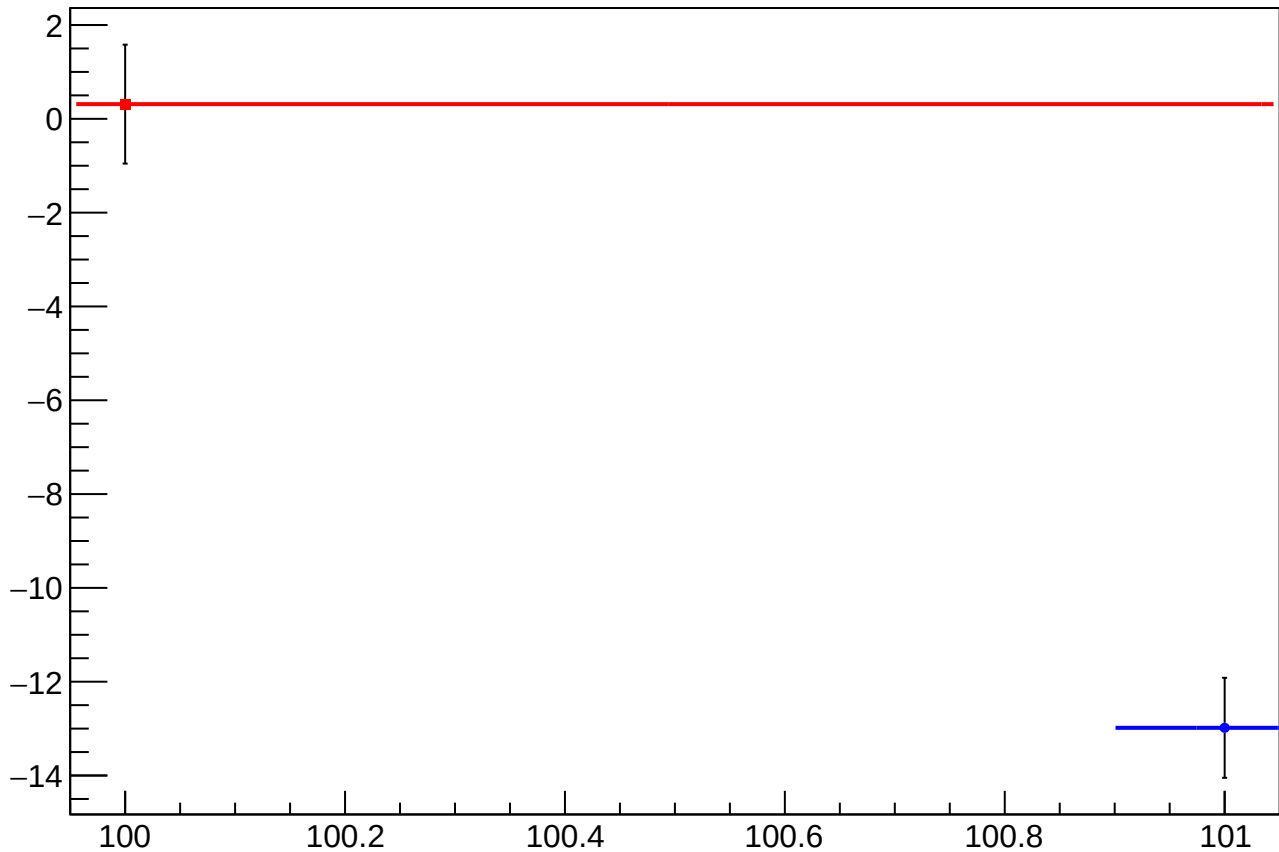
Right: -18.874+/-0.049  $\chi^2/\text{NDF}$ : 2083.0/1

In: -18.586+/-0.050  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -18.874+/-0.049  $\chi^2/\text{NDF}$ : 2083.0/1

reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -12.983+/-1.066  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.313+/-1.268  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

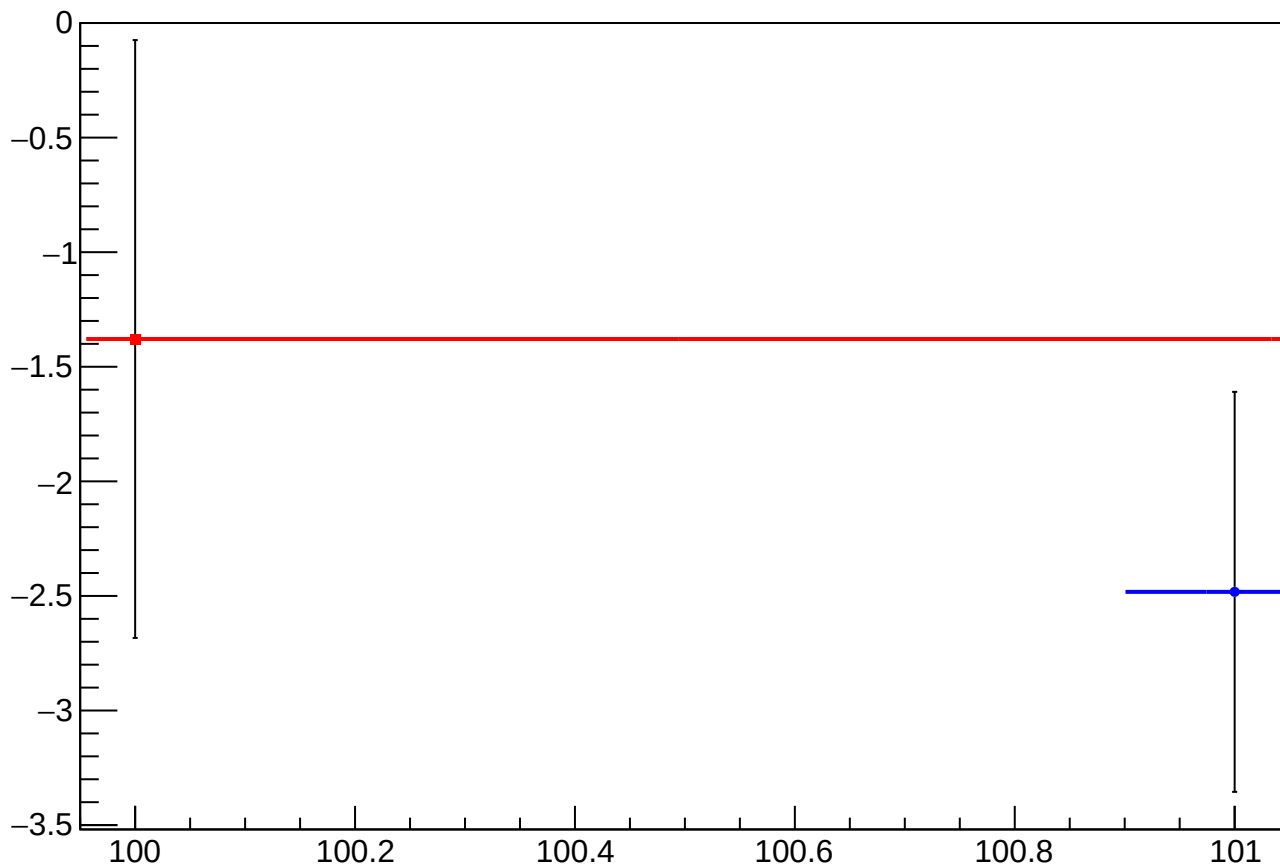
Right: -7.477+/-0.816  $\chi^2/\text{NDF}$ : 64.5/1

In: -12.983+/-1.066  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -7.477+/-0.816  $\chi^2/\text{NDF}$ : 64.5/1

reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -2.482 $\pm$ 0.873  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.379 $\pm$ 1.304  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

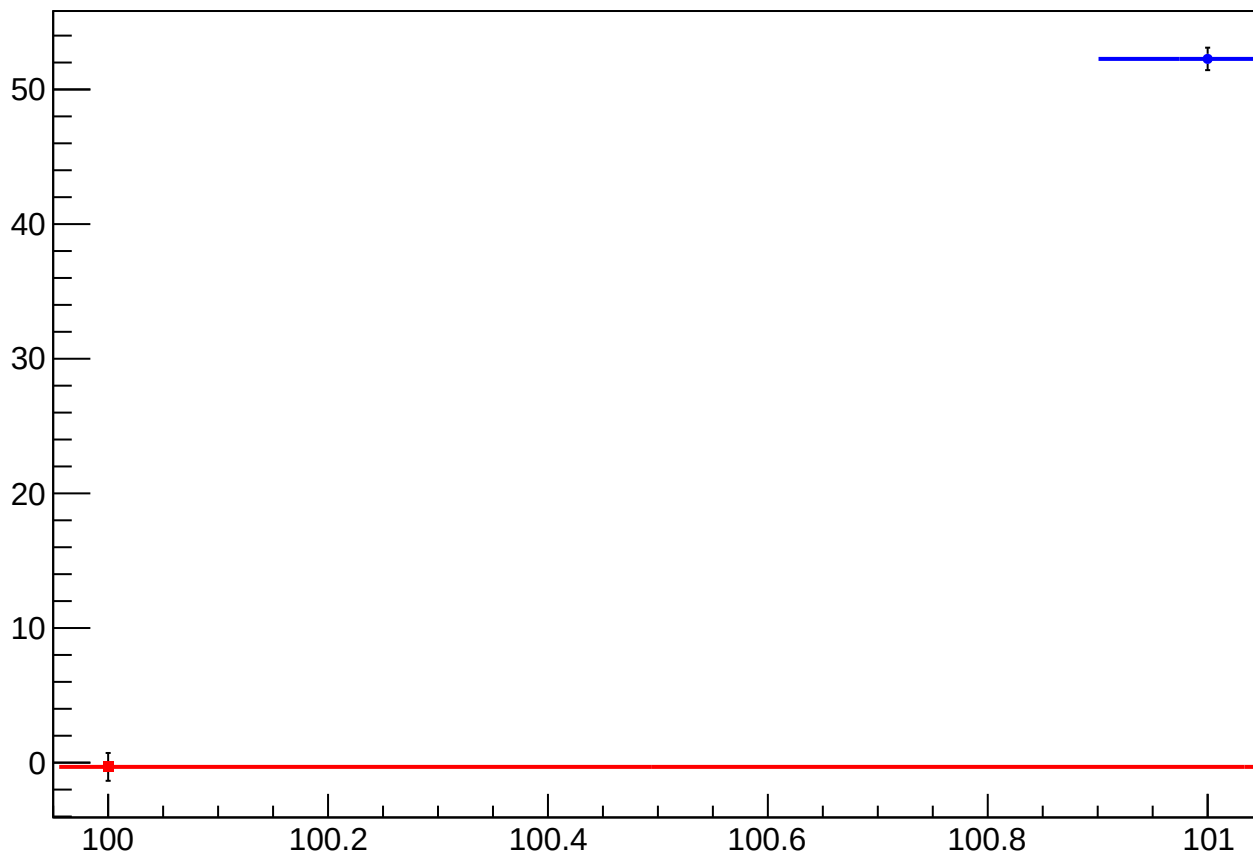
Right: -2.141 $\pm$ 0.725  $\chi^2$ /NDF: 0.5/1

In: -2.482 $\pm$ 0.873  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2.141 $\pm$ 0.725  $\chi^2$ /NDF: 0.5/1

reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 52.270+/-0.834  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.314+/-1.033  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: 31.517+/-0.649  $\chi^2$ /NDF: 1568.1/1

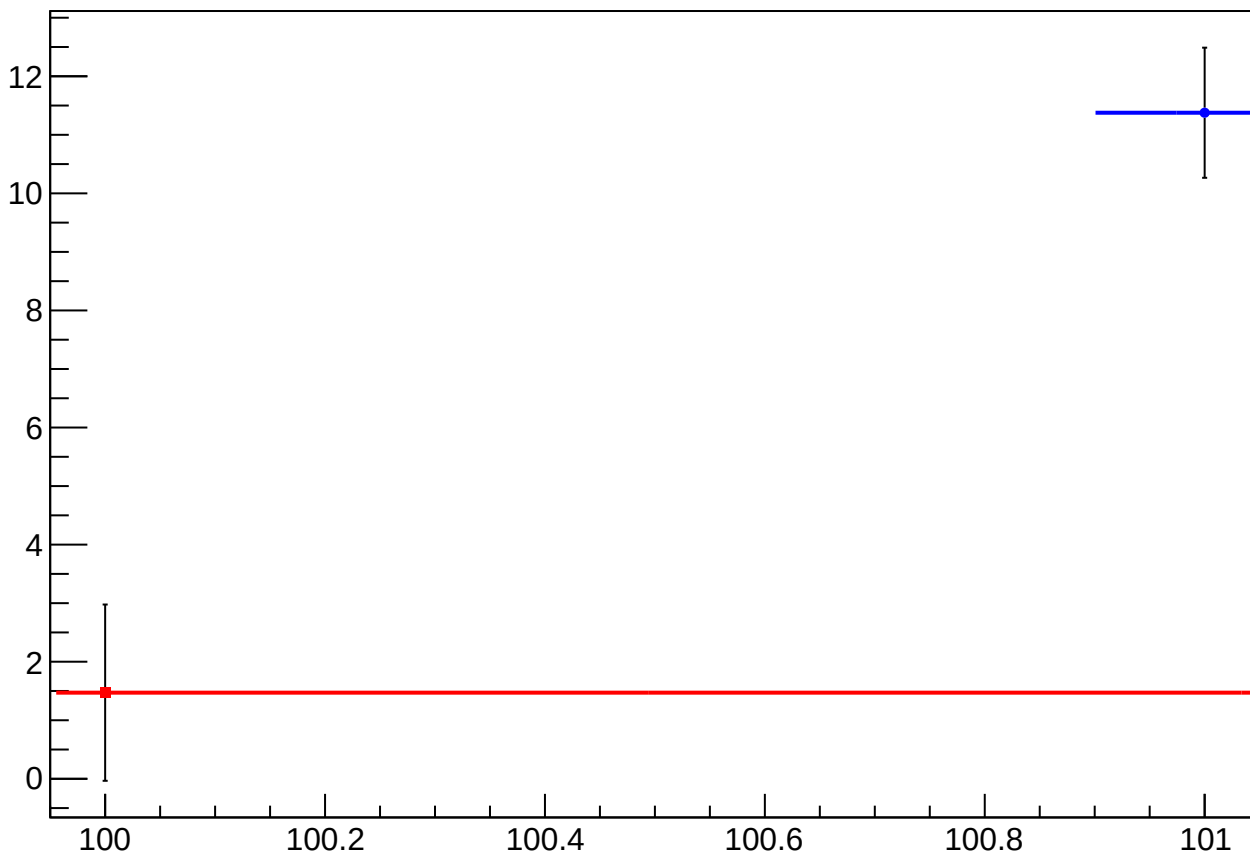
In: 52.270+/-0.834  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 31.517+/-0.649  $\chi^2$ /NDF: 1568.1/1



reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.377+/-1.111  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.471+/-1.506  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

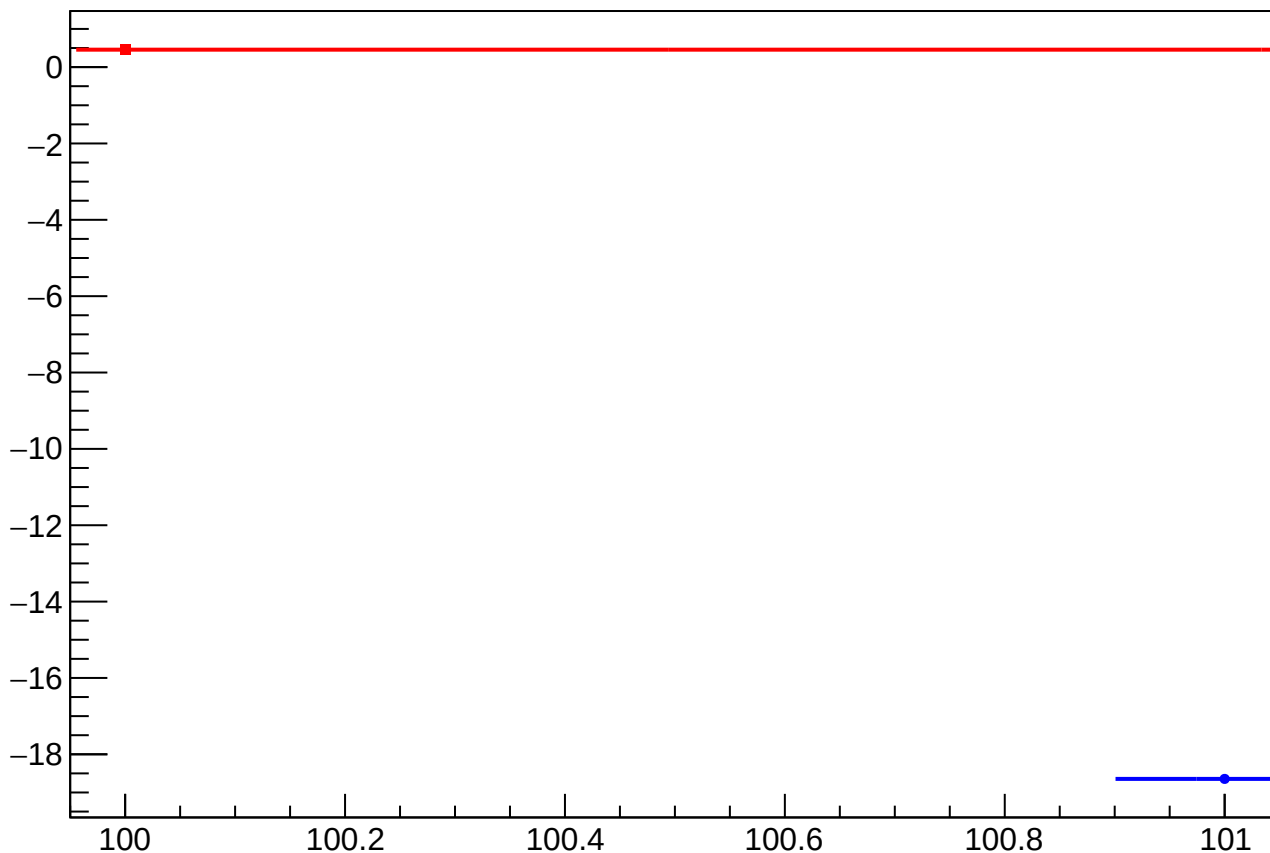
Right: 7.883+/-0.894  $\chi^2/\text{NDF}$ : 28.0/1

In: 11.377+/-1.111  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.883+/-0.894  $\chi^2/\text{NDF}$ : 28.0/1

reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -18.644 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.457 $\pm$ 0.052  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

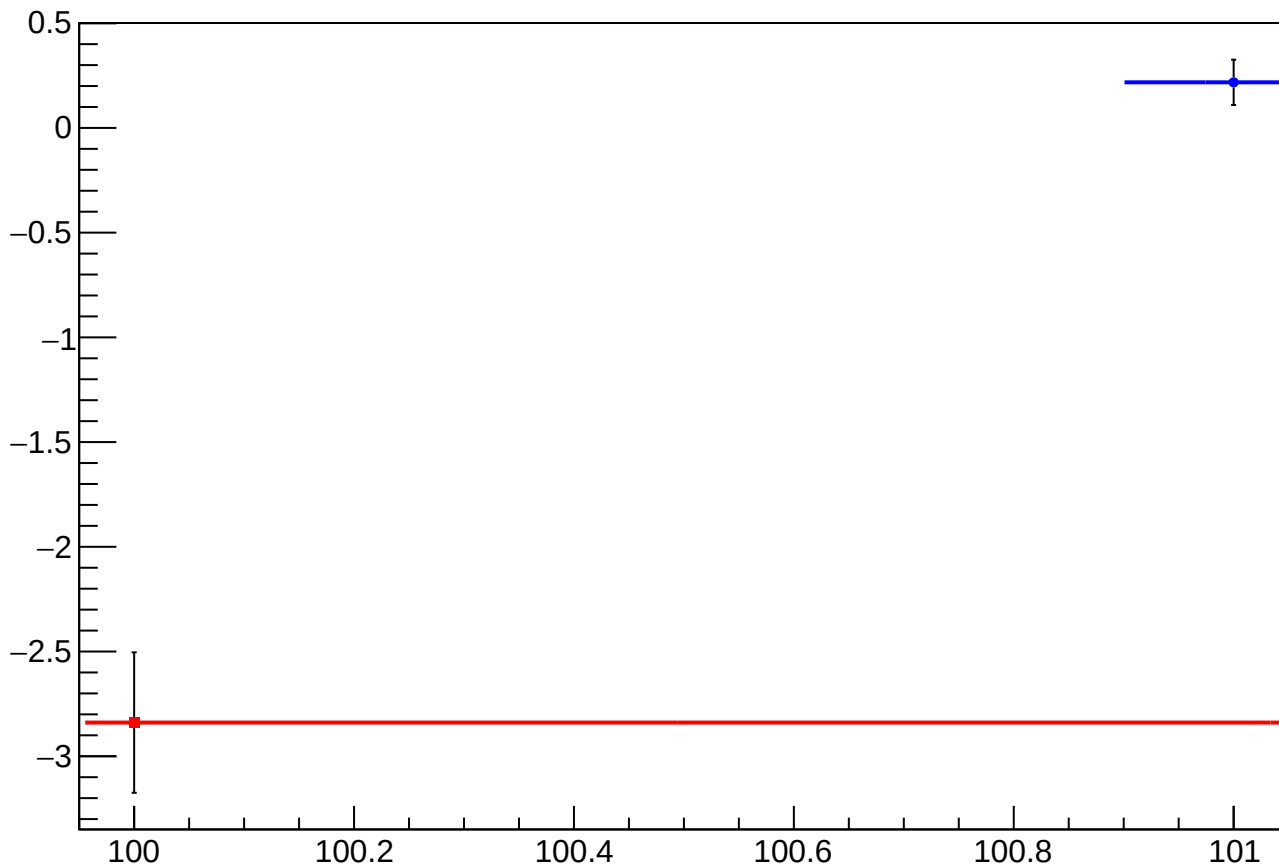
Right: -9.575 $\pm$ 0.036  $\chi^2$ /NDF: 69985.8/1

In: -18.644 $\pm$ 0.050  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.575 $\pm$ 0.036  $\chi^2$ /NDF: 69985.8/1

reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.218 $\pm$ 0.108  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.839 $\pm$ 0.335  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

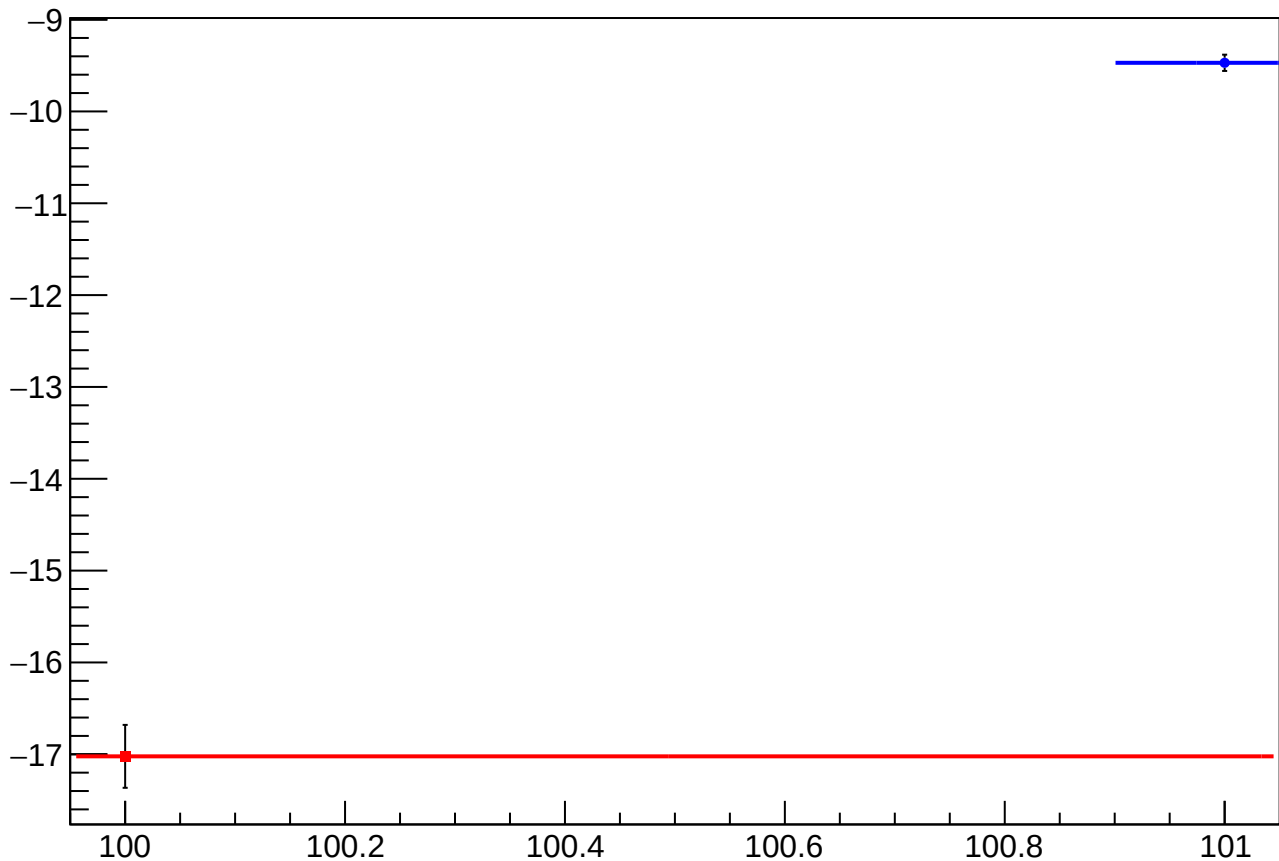
Right: -0.070 $\pm$ 0.103  $\chi^2$ /NDF: 75.3/1

In: 0.218 $\pm$ 0.108  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.070 $\pm$ 0.103  $\chi^2$ /NDF: 75.3/1

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -9.471+/-0.089  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17.022+/-0.342  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

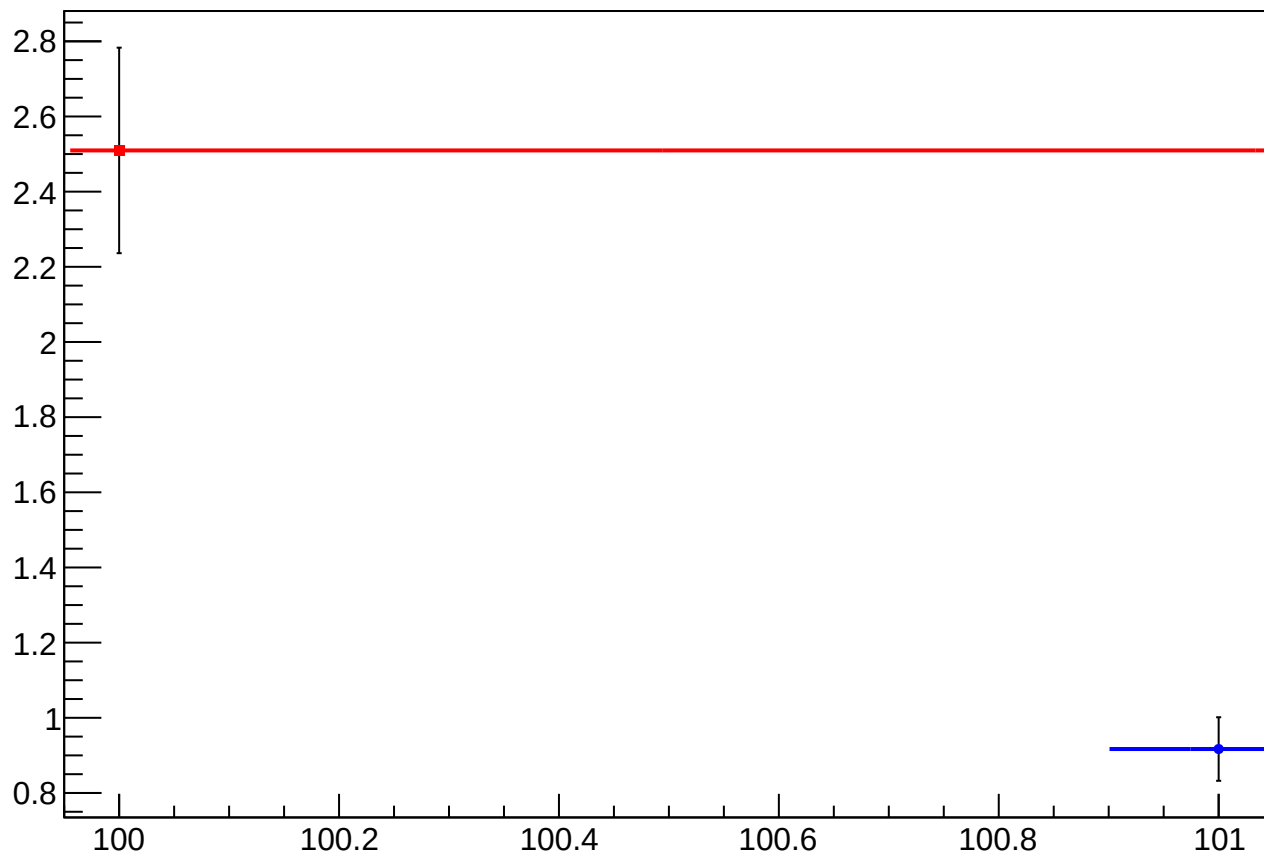
Right: -9.944+/-0.086  $\chi^2/\text{NDF}$ : 455.7/1

In: -9.471+/-0.089  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.944+/-0.086  $\chi^2/\text{NDF}$ : 455.7/1

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.917 $\pm$ 0.085  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.510 $\pm$ 0.273  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

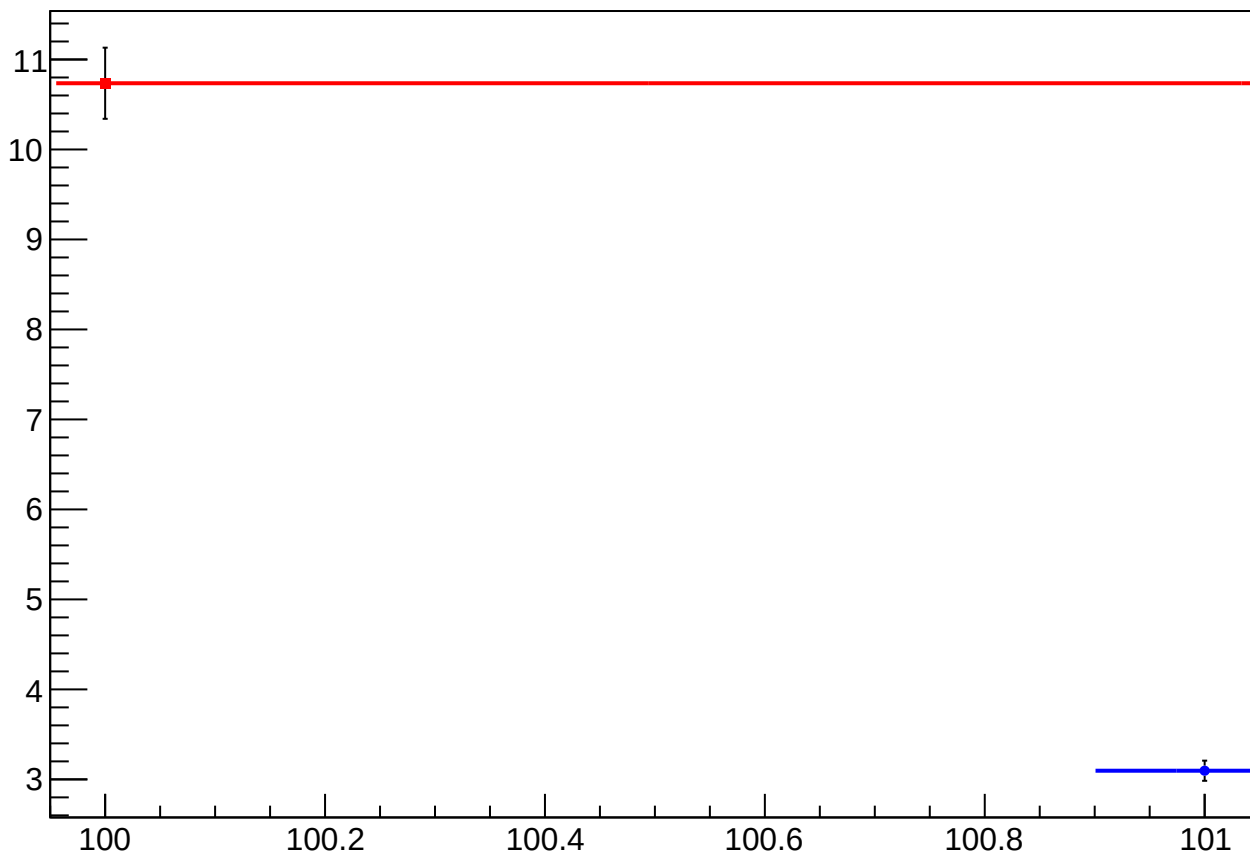
Right: 1.056 $\pm$ 0.081  $\chi^2$ /NDF: 31.0/1

In: 0.917 $\pm$ 0.085  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.056 $\pm$ 0.081  $\chi^2$ /NDF: 31.0/1

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 3.096+/-0.112  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.736+/-0.395  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

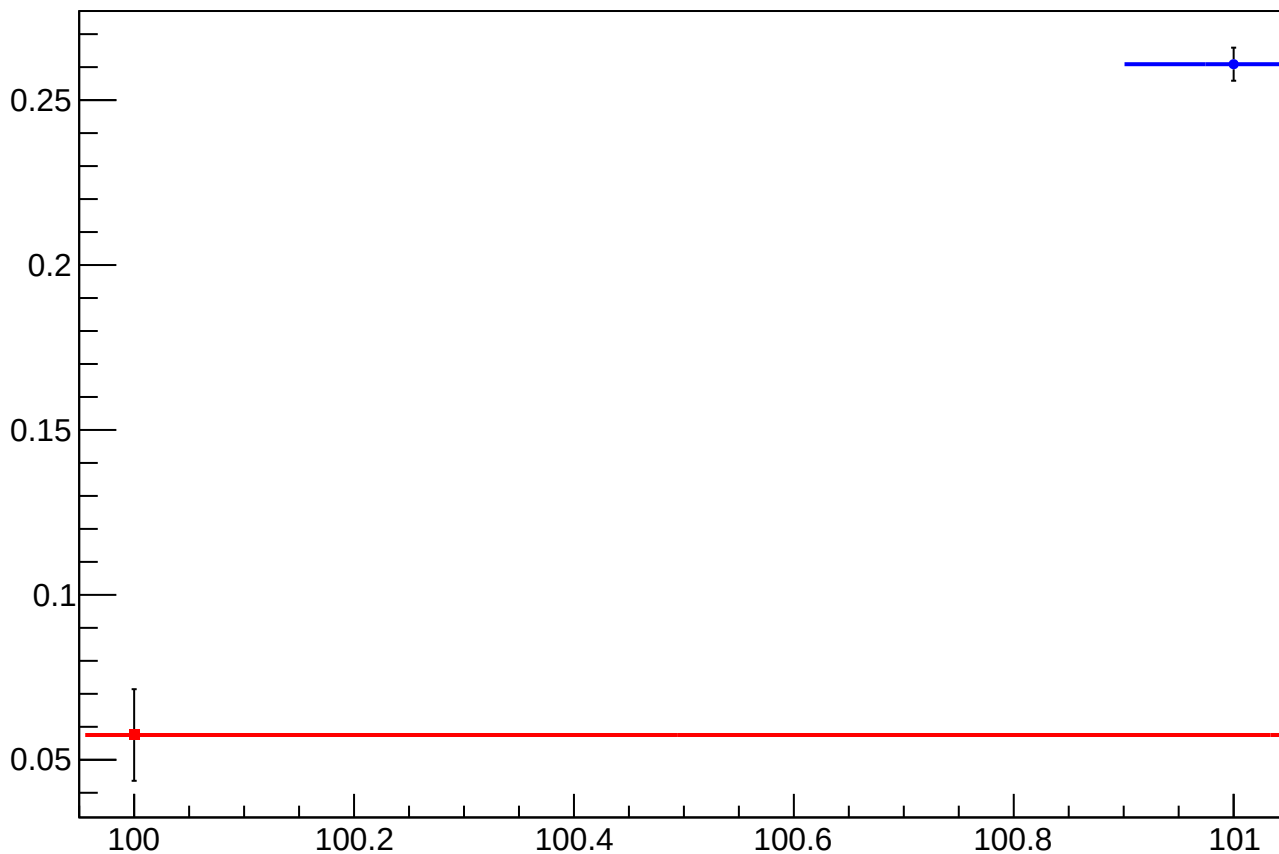
Right: 3.664+/-0.108  $\chi^2/\text{NDF}$ : 345.8/1

In: 3.096+/-0.112  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.664+/-0.108  $\chi^2/\text{NDF}$ : 345.8/1

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.261±/-0.005  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.058±/-0.014  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

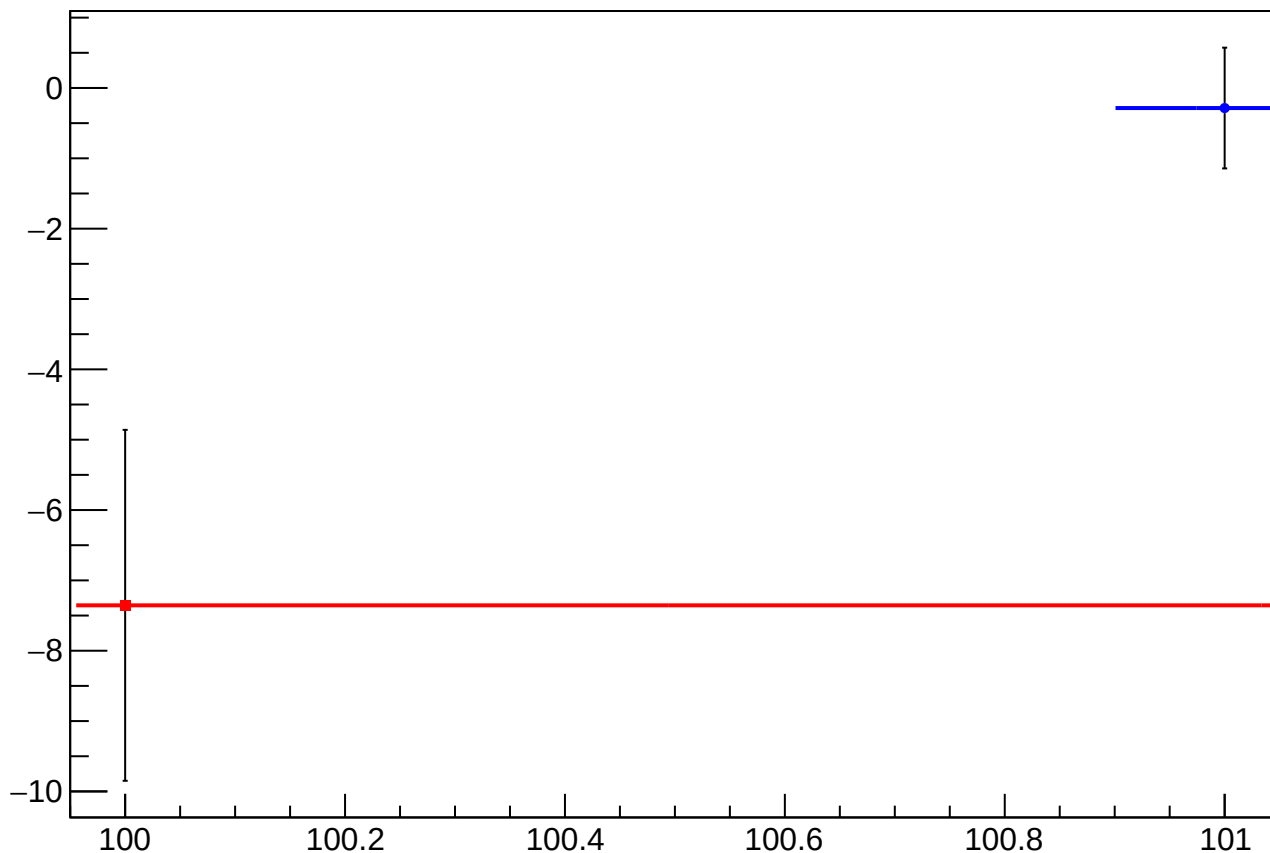
Right: 0.237±/-0.005  $\chi^2$ /NDF: 189.8/1

In: 0.261±/-0.005  $\chi^2$ /NDF:0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.237±/-0.005  $\chi^2$ /NDF: 189.8/1

reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $-0.285 \pm 0.858$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-7.355 \pm 2.494$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right:  $-1.034 \pm 0.812$   $\chi^2/\text{NDF}$ : 7.2/1

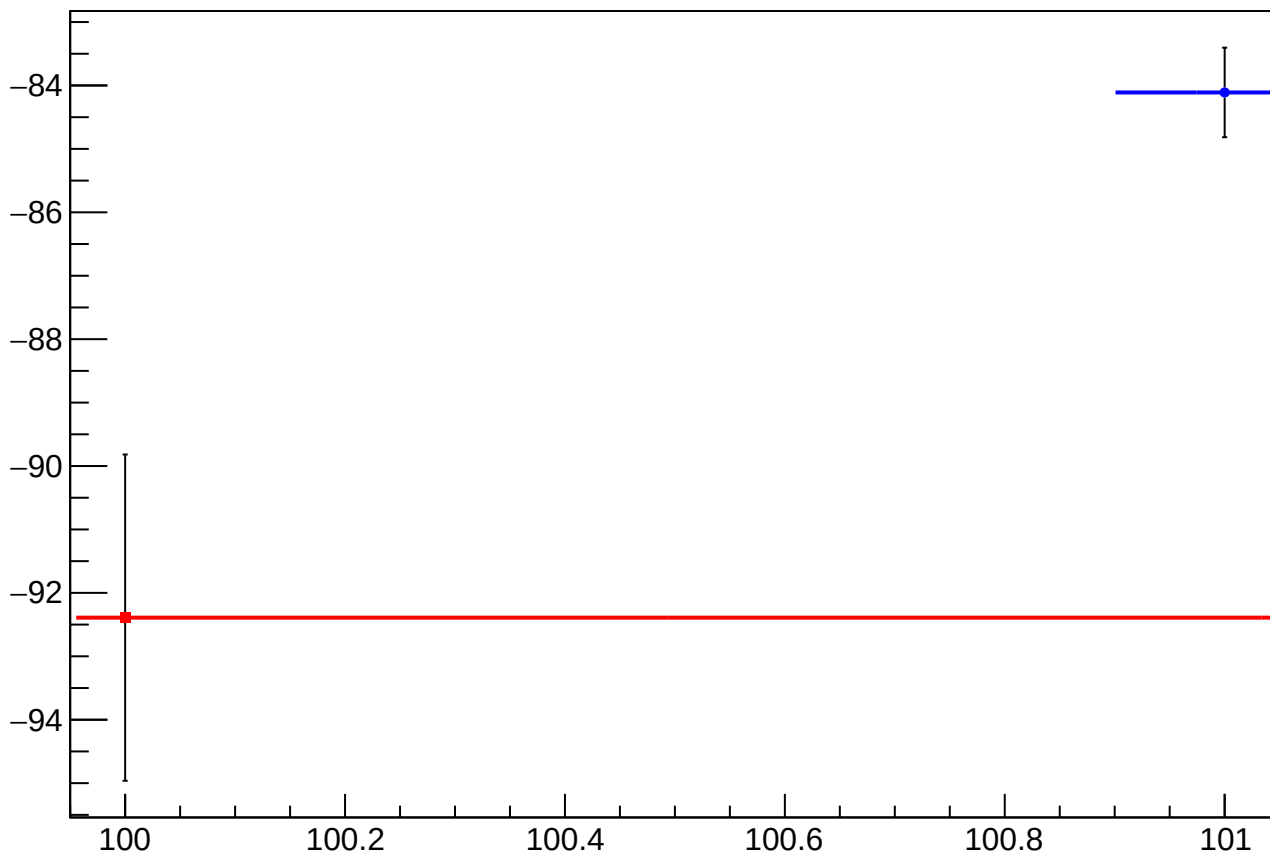
In:  $-0.285 \pm 0.858$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.034 \pm 0.812$   $\chi^2/\text{NDF}$ : 7.2/1



reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -84.110 $\pm$ 0.706  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -92.390 $\pm$ 2.572  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

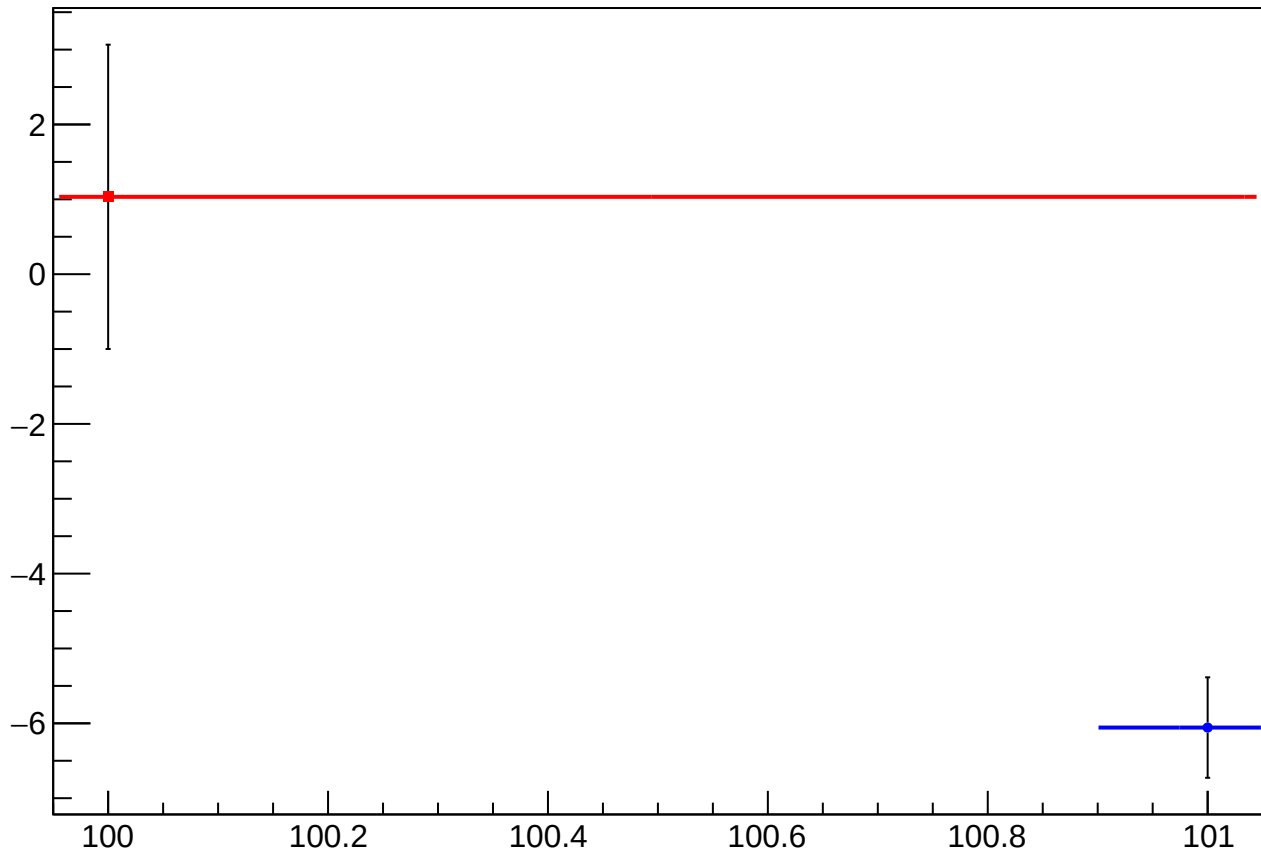
Right: -84.690 $\pm$ 0.681  $\chi^2$ /NDF: 9.6/1

In: -84.110 $\pm$ 0.706  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -84.690 $\pm$ 0.681  $\chi^2$ /NDF: 9.6/1

reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -6.056+/-0.671  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.033+/-2.033  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

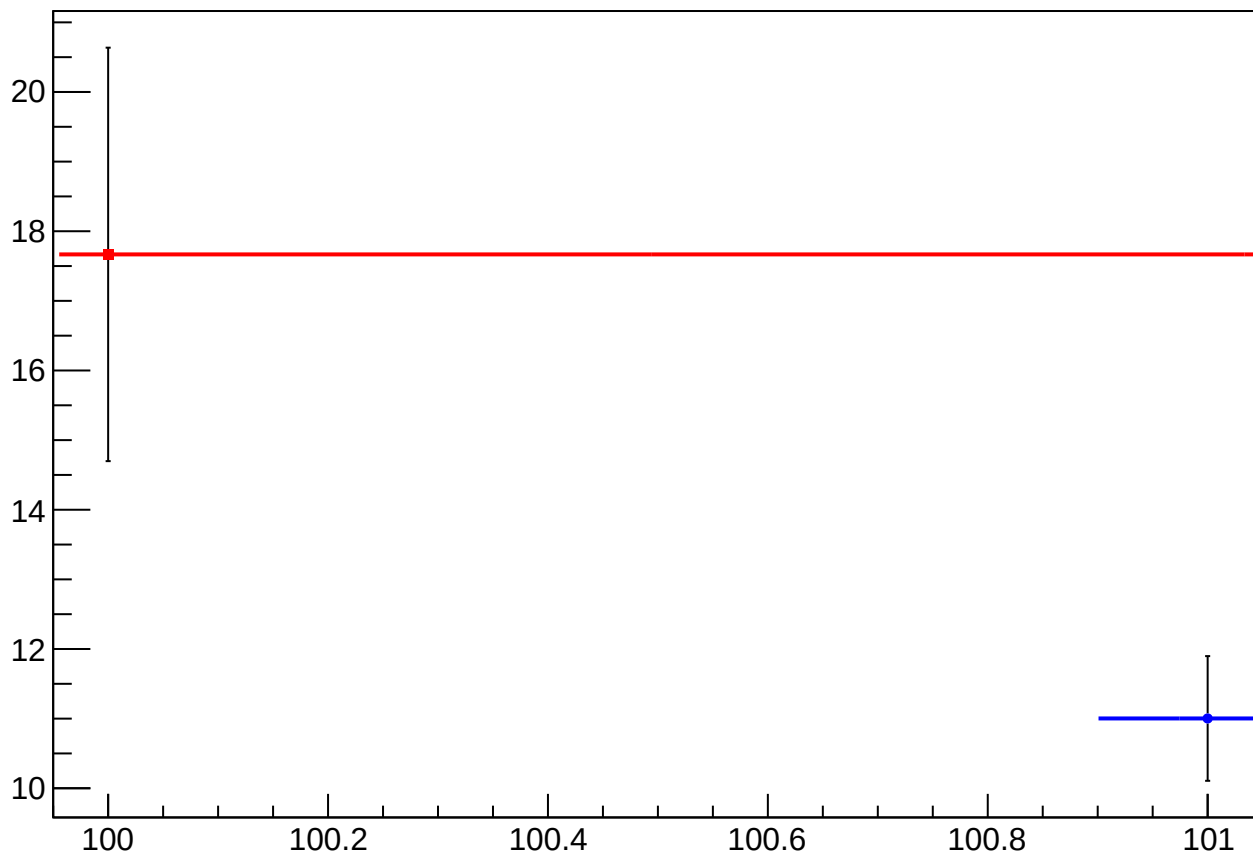
Right: -5.360+/-0.637  $\chi^2/\text{NDF}$ : 11.0/1

In: -6.056+/-0.671  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.360+/-0.637  $\chi^2/\text{NDF}$ : 11.0/1

reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.002 $\pm$ 0.895  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.667 $\pm$ 2.969  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

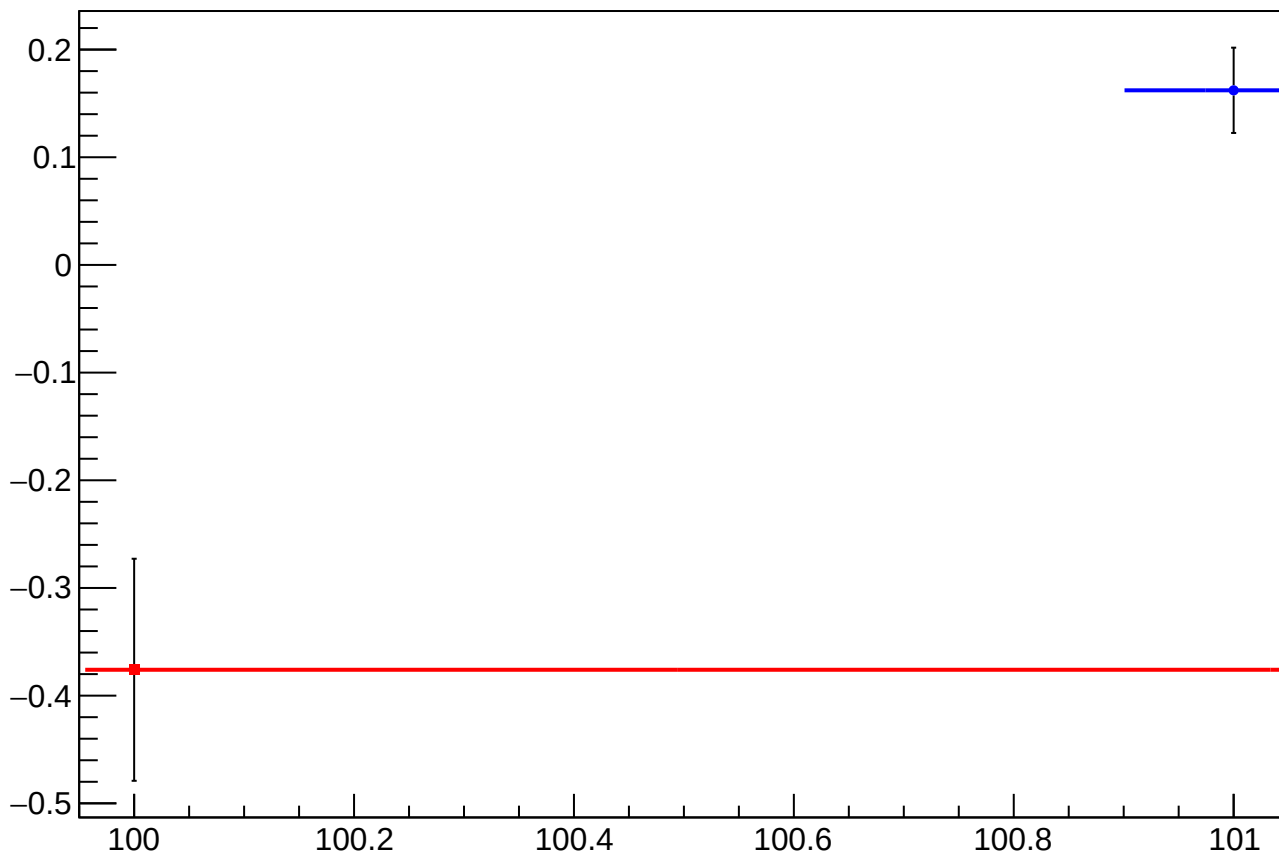
Right: 11.558 $\pm$ 0.857  $\chi^2$ /NDF: 4.6/1

In: 11.002 $\pm$ 0.895  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.558 $\pm$ 0.857  $\chi^2$ /NDF: 4.6/1

reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.162 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.376 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

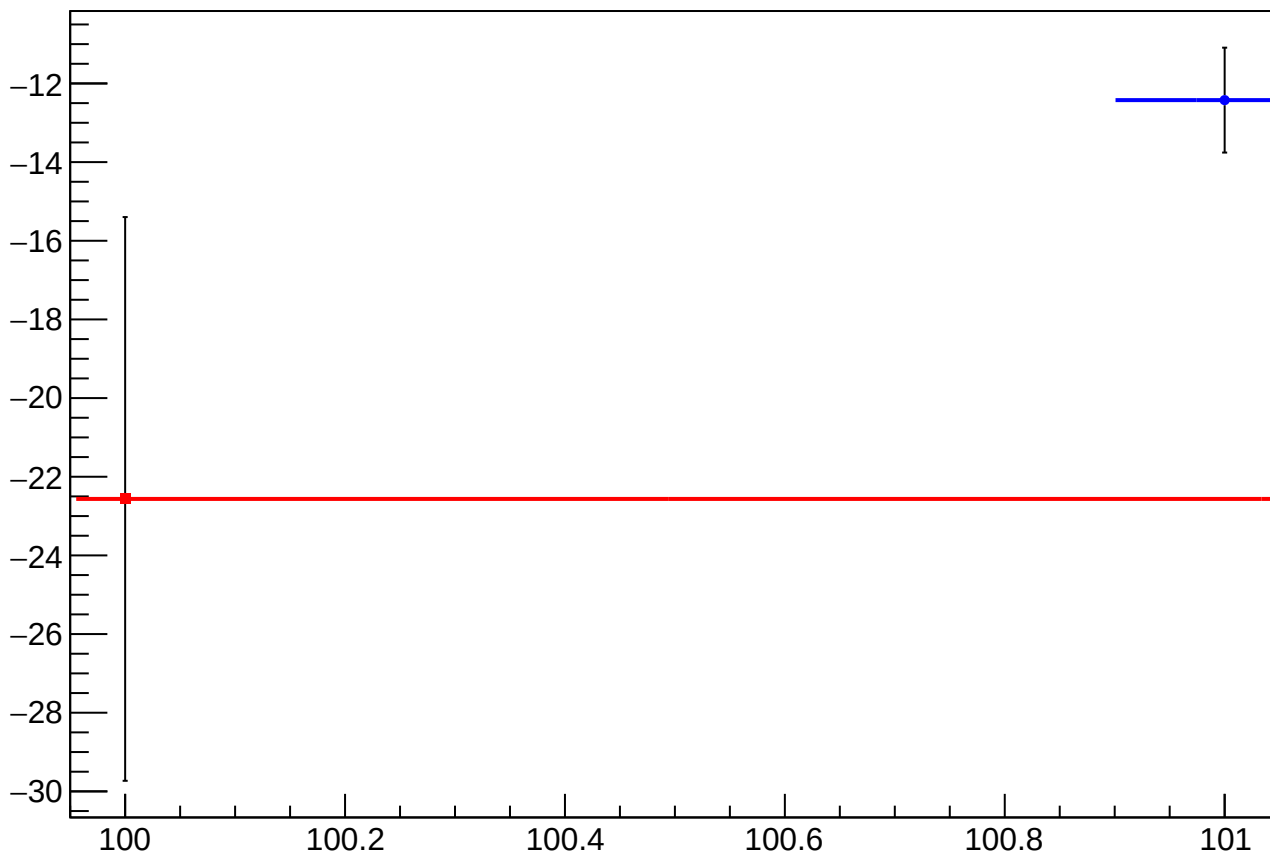
Right: 0.093 $\pm$ 0.037  $\chi^2$ /NDF: 23.7/1

In: 0.162 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.093 $\pm$ 0.037  $\chi^2$ /NDF: 23.7/1

reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -12.424 $\pm$ 1.334  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -22.564 $\pm$ 7.167  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

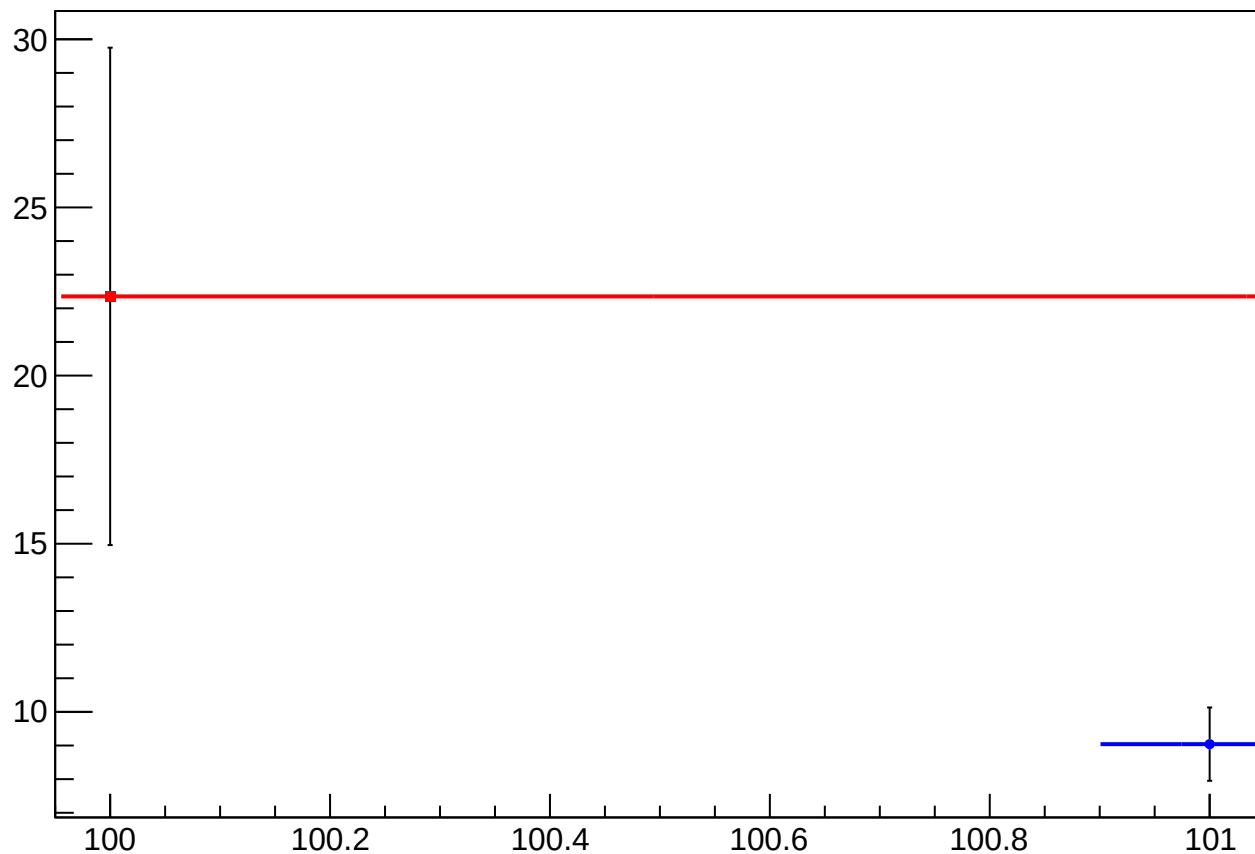
Right: -12.763 $\pm$ 1.311  $\chi^2$ /NDF: 1.9/1

In: -12.424 $\pm$ 1.334  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -12.763 $\pm$ 1.311  $\chi^2$ /NDF: 1.9/1

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 9.041+/-1.090  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 22.355+/-7.395  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

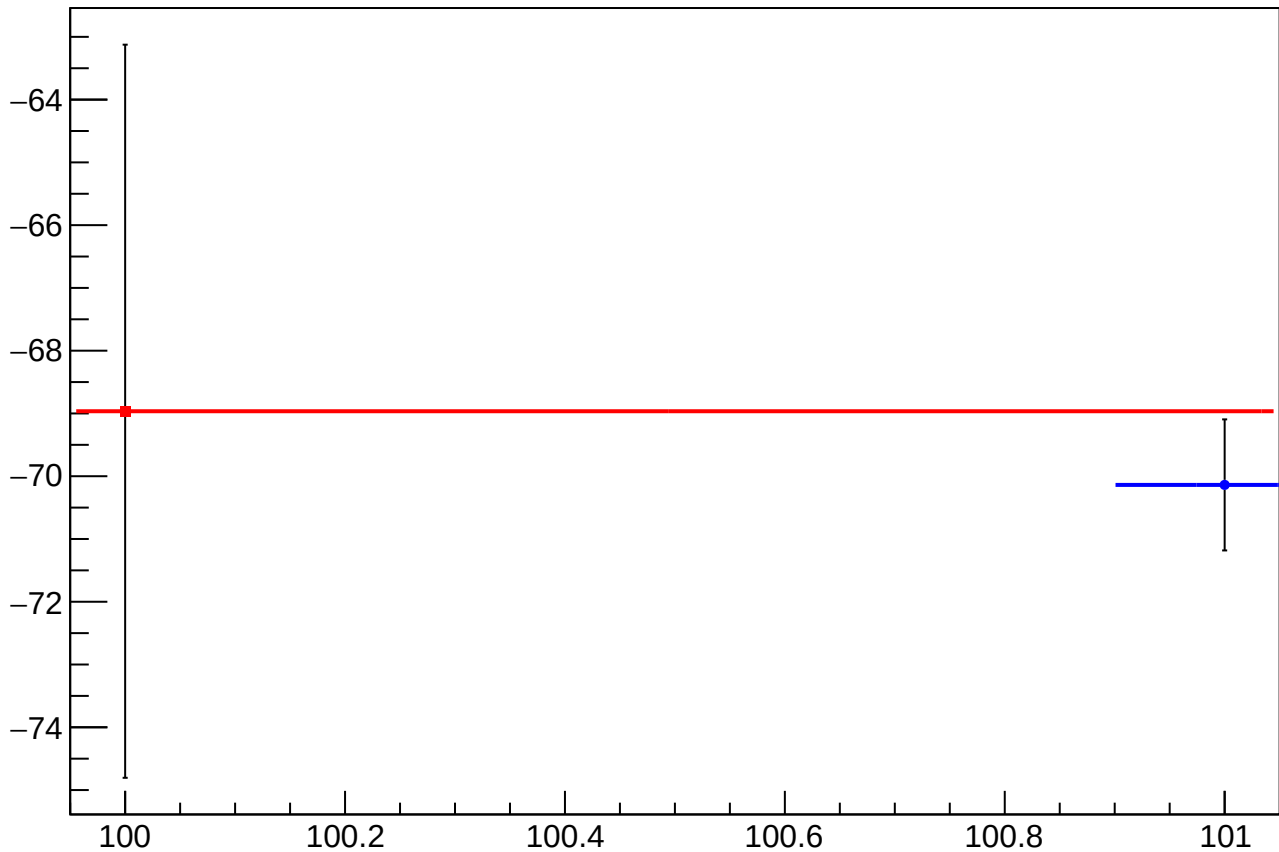
Right: 9.324+/-1.078  $\chi^2/\text{NDF}$ : 3.2/1

In: 9.041+/-1.090  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 9.324+/-1.078  $\chi^2/\text{NDF}$ : 3.2/1

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -70.139+/-1.044  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -68.965+/-5.840  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

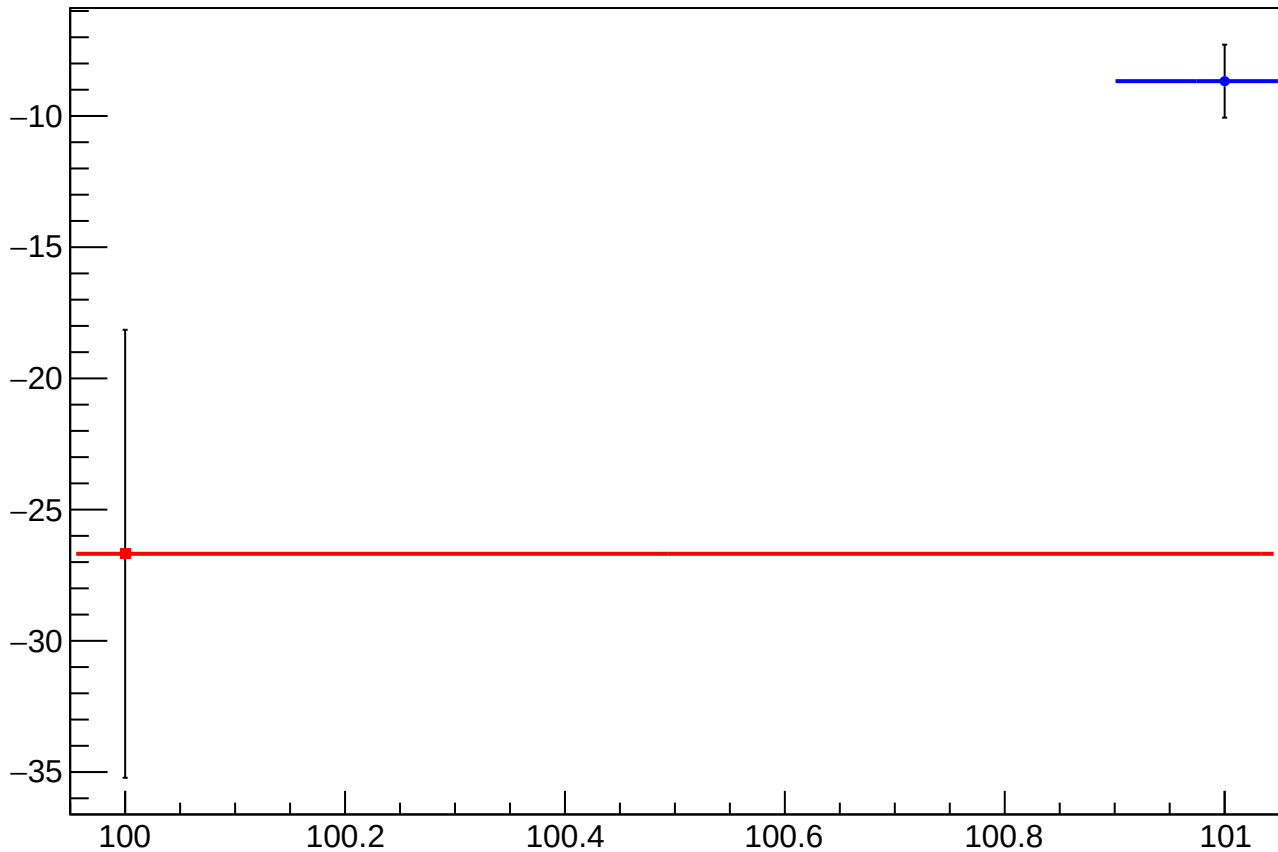
Right: -70.102+/-1.028  $\chi^2/\text{NDF}$ : 0.0/1

In: -70.139+/-1.044  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -70.102+/-1.028  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -8.674+/-1.391  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -26.683+/-8.536  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -9.139+/-1.373  $\chi^2/\text{NDF}$ : 4.3/1

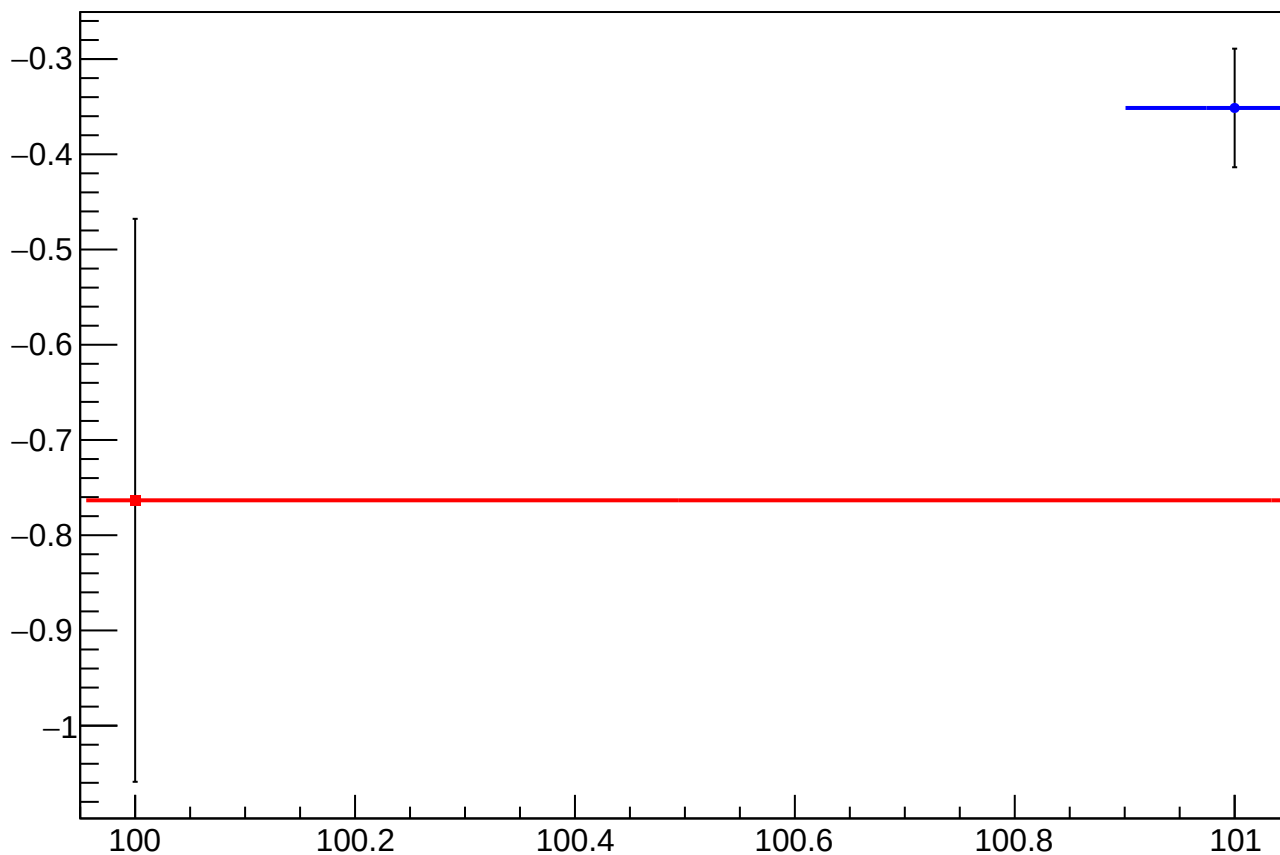
In: -8.674+/-1.391  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.139+/-1.373  $\chi^2/\text{NDF}$ : 4.3/1



reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.351+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.763+/-0.296  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

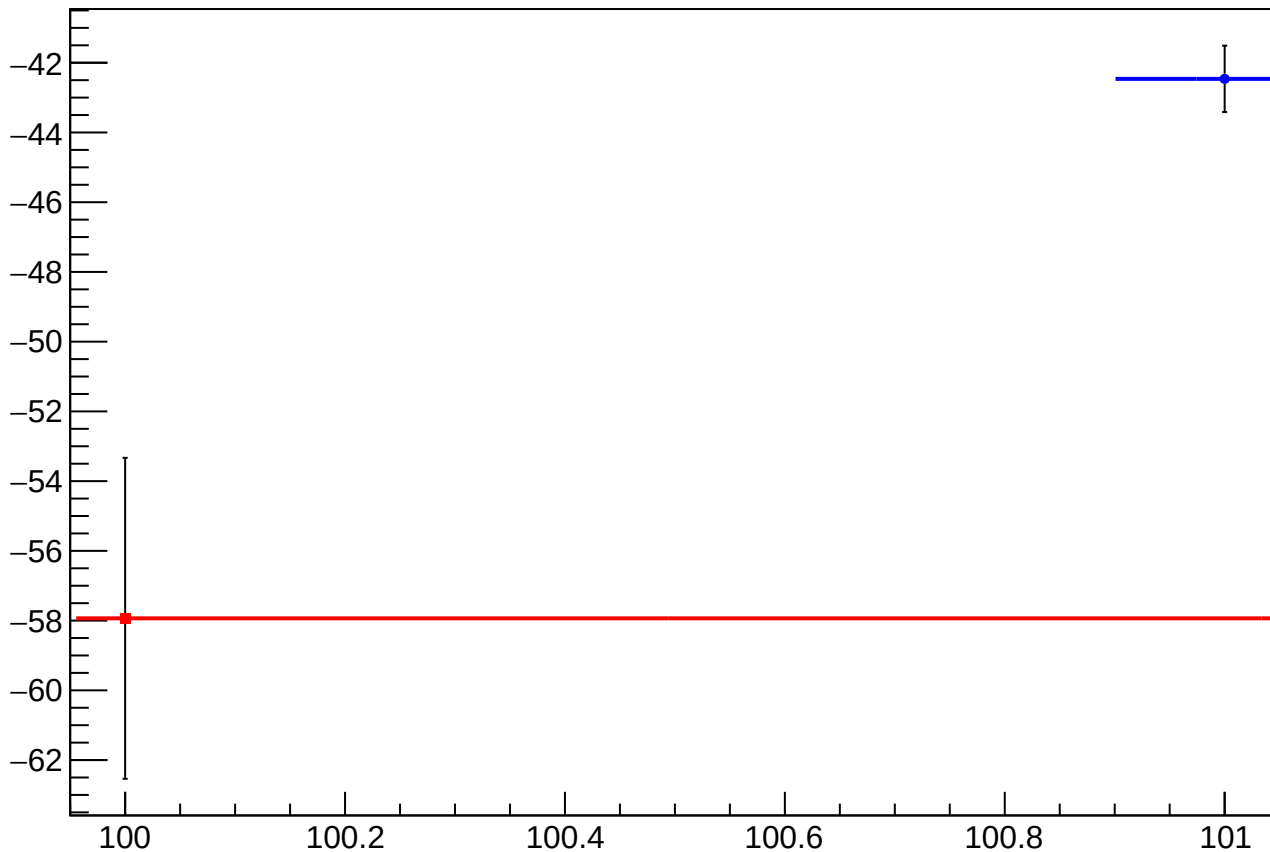
Right: -0.369+/-0.061  $\chi^2/\text{NDF}$ : 1.9/1

In: -0.351+/-0.062  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.369+/-0.061  $\chi^2/\text{NDF}$ : 1.9/1

reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -42.463 $\pm$ 0.952  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -57.935 $\pm$ 4.602  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

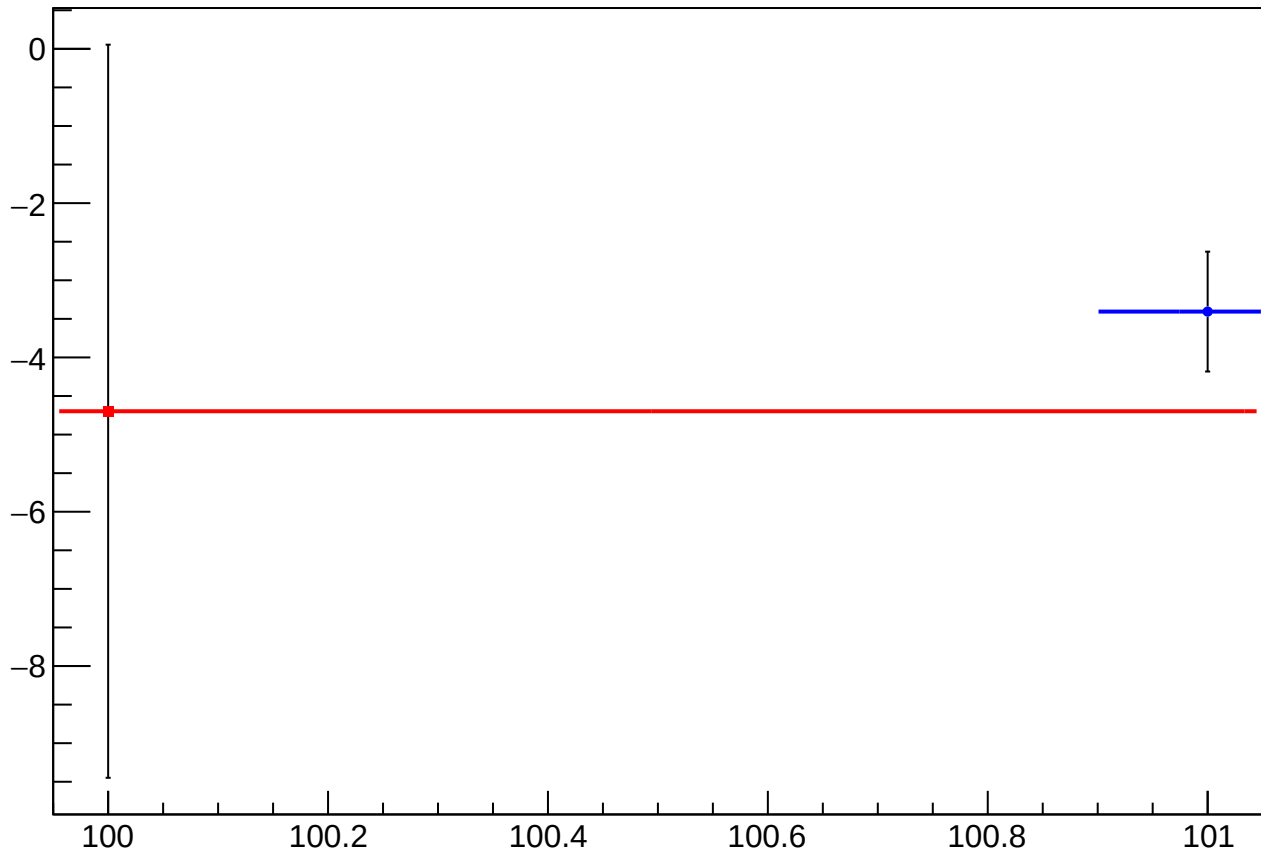
Right: -43.098 $\pm$ 0.932  $\chi^2$ /NDF: 10.8/1

In: -42.463 $\pm$ 0.952  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -43.098 $\pm$ 0.932  $\chi^2$ /NDF: 10.8/1

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.406+/-0.777  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.697+/-4.751  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

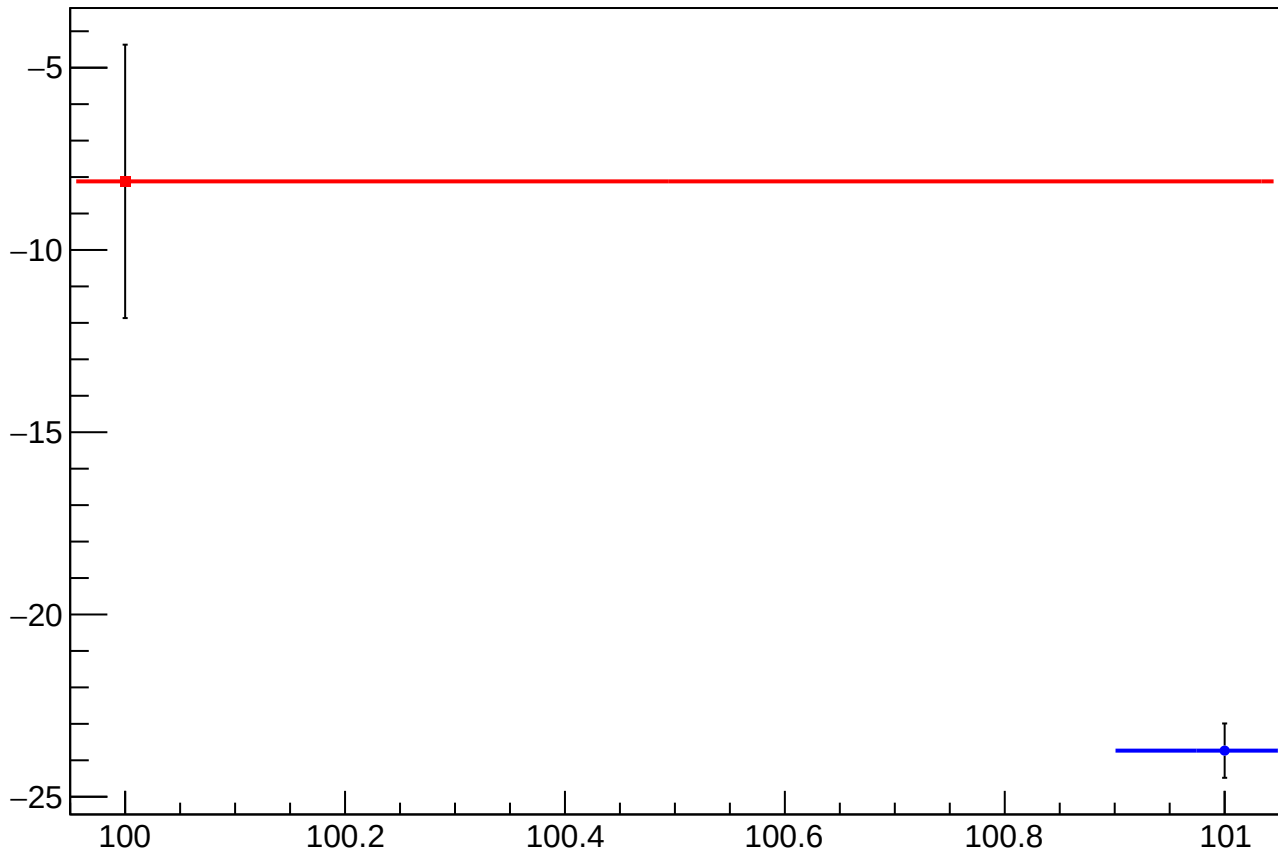
Right: -3.439+/-0.767  $\chi^2/\text{NDF}$ : 0.1/1

In: -3.406+/-0.777  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.439+/-0.767  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -23.735 $\pm$ 0.745  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.118 $\pm$ 3.750  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

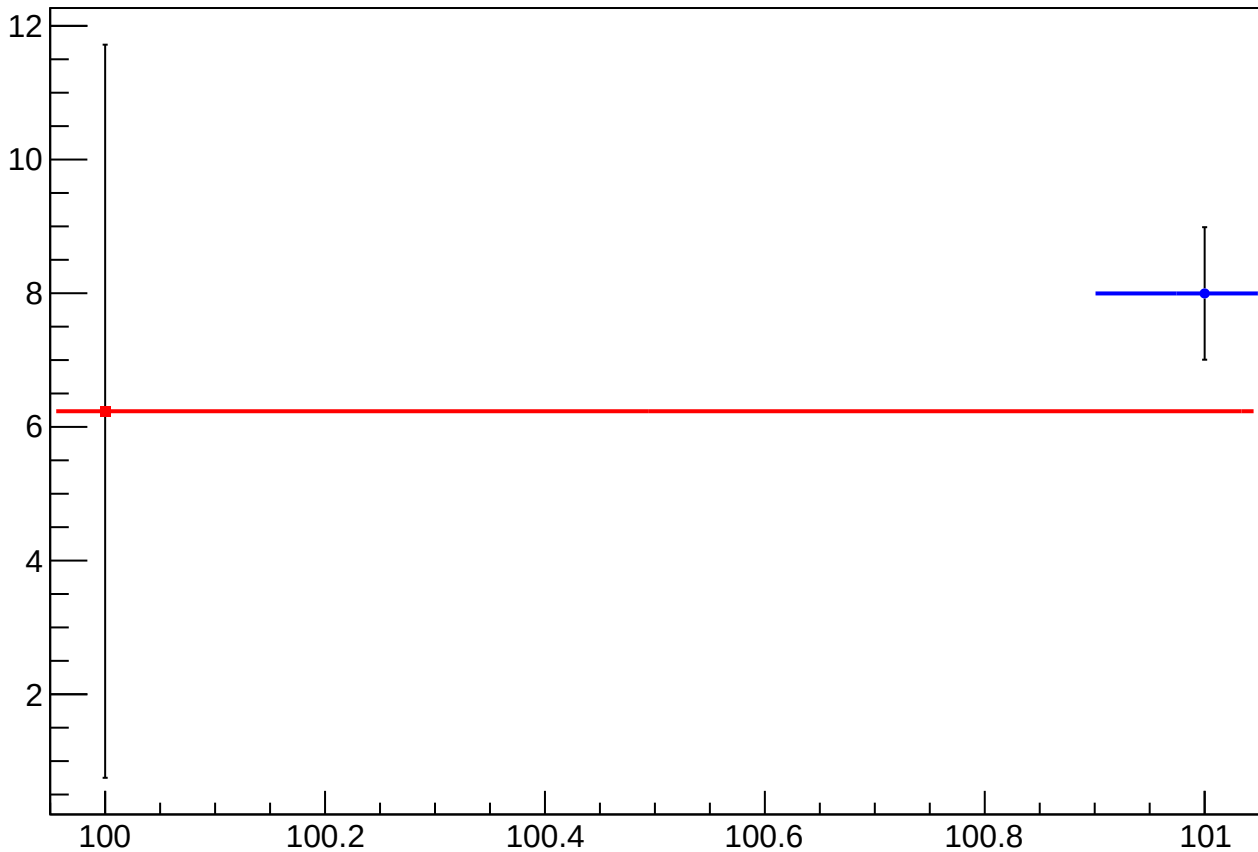
Right: -23.142 $\pm$ 0.731  $\chi^2$ /NDF: 16.7/1

In: -23.735 $\pm$ 0.745  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -23.142 $\pm$ 0.731  $\chi^2$ /NDF: 16.7/1

reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 7.997 $\pm$ 0.991  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.234 $\pm$ 5.484  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

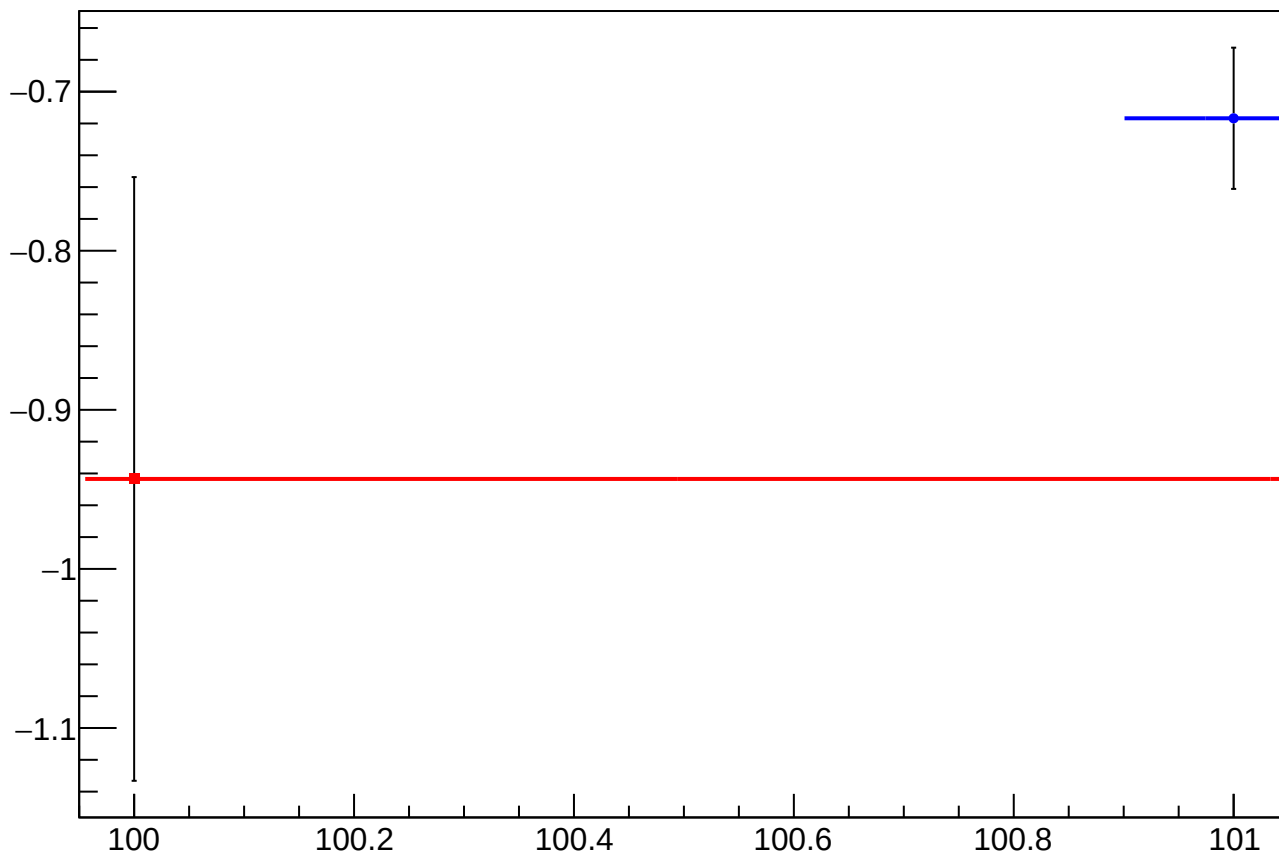
Right: 7.941 $\pm$ 0.975  $\chi^2$ /NDF: 0.1/1

In: 7.997 $\pm$ 0.991  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 7.941 $\pm$ 0.975  $\chi^2$ /NDF: 0.1/1

reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.717 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.943 $\pm$ 0.190  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

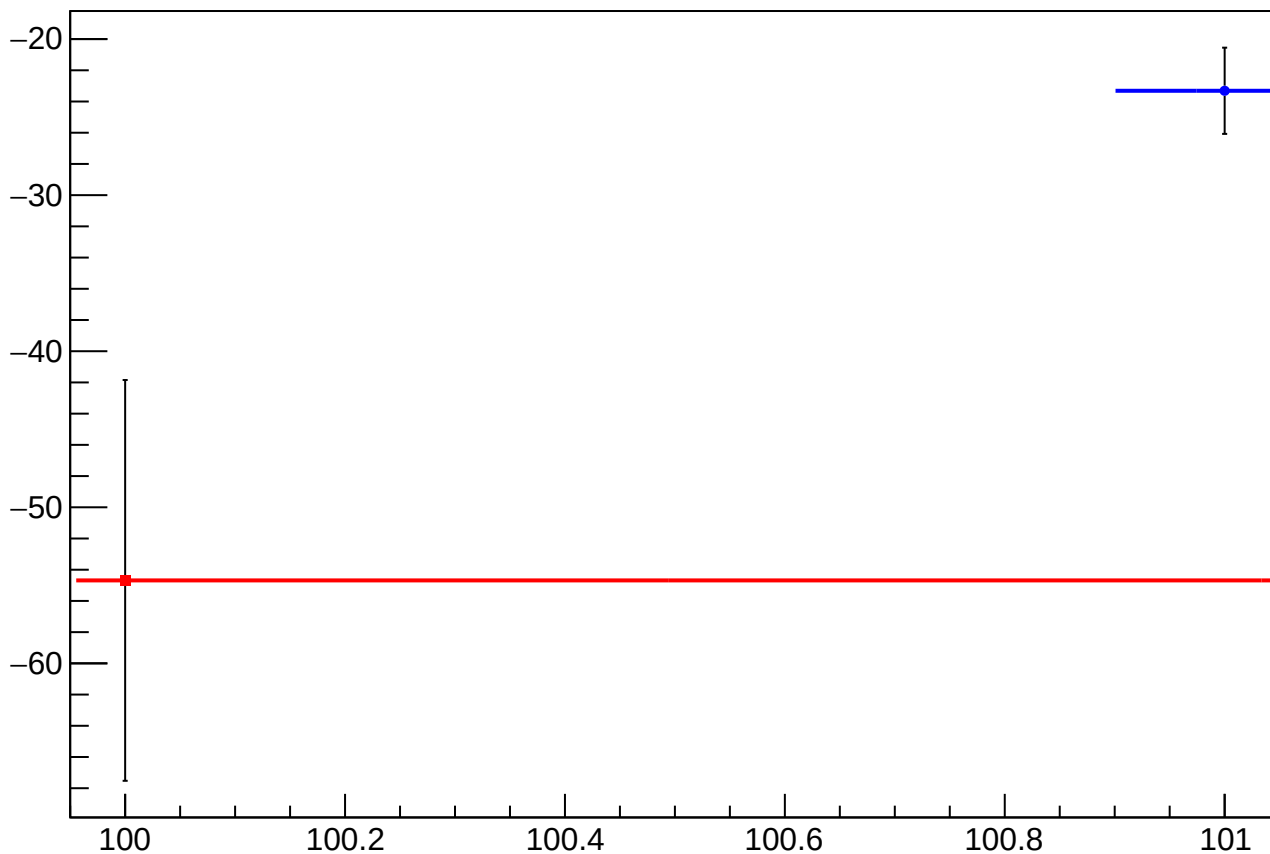
Right: -0.729 $\pm$ 0.043  $\chi^2$ /NDF: 1.4/1

In: -0.717 $\pm$ 0.044  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.729 $\pm$ 0.043  $\chi^2$ /NDF: 1.4/1

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -23.313+/-2.762  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -54.685+/-12.840  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

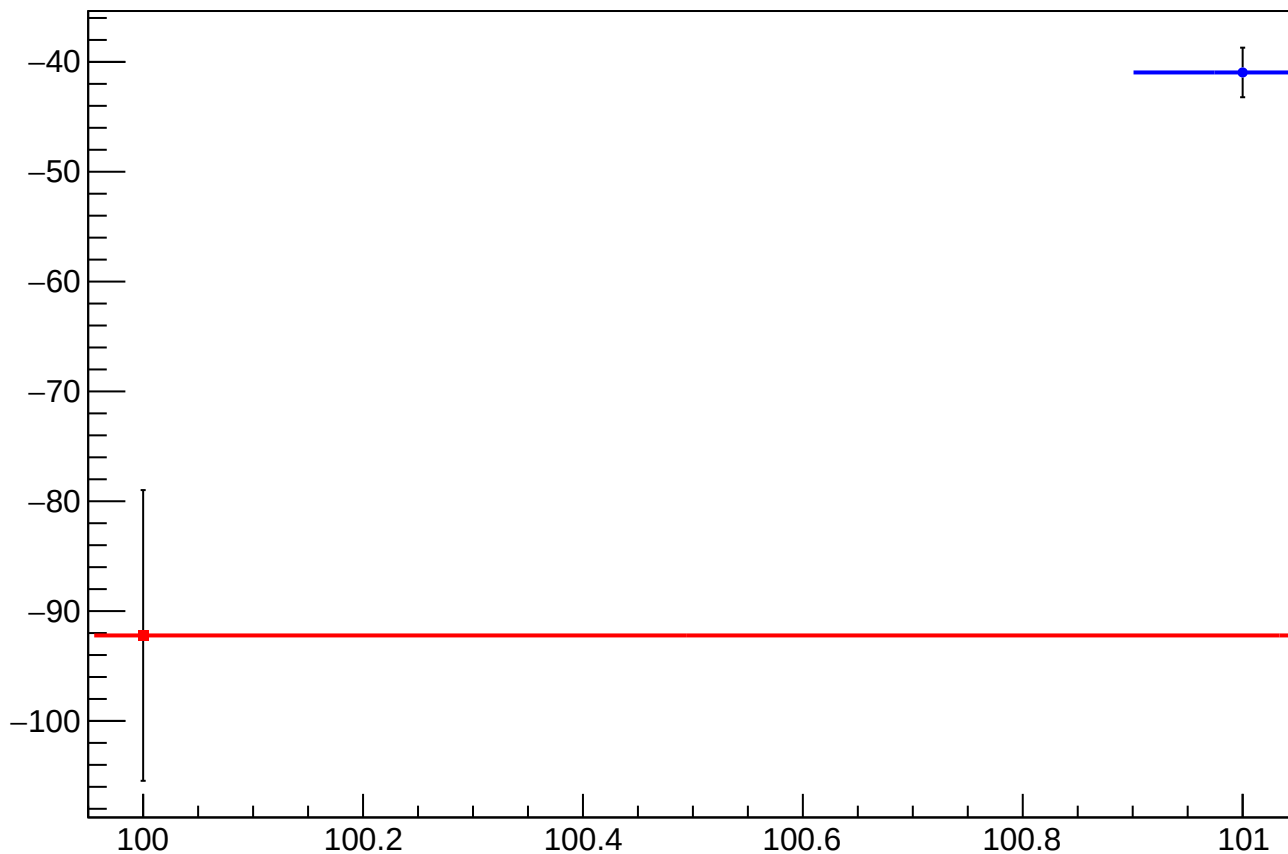
Right: -24.700+/-2.700  $\chi^2/\text{NDF}$ : 5.7/1

In: -23.313+/-2.762  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.700+/-2.700  $\chi^2/\text{NDF}$ : 5.7/1

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -40.961 $\pm$ 2.256  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -92.217 $\pm$ 13.234  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -42.408 $\pm$ 2.224  $\chi^2$ /NDF: 14.6/1

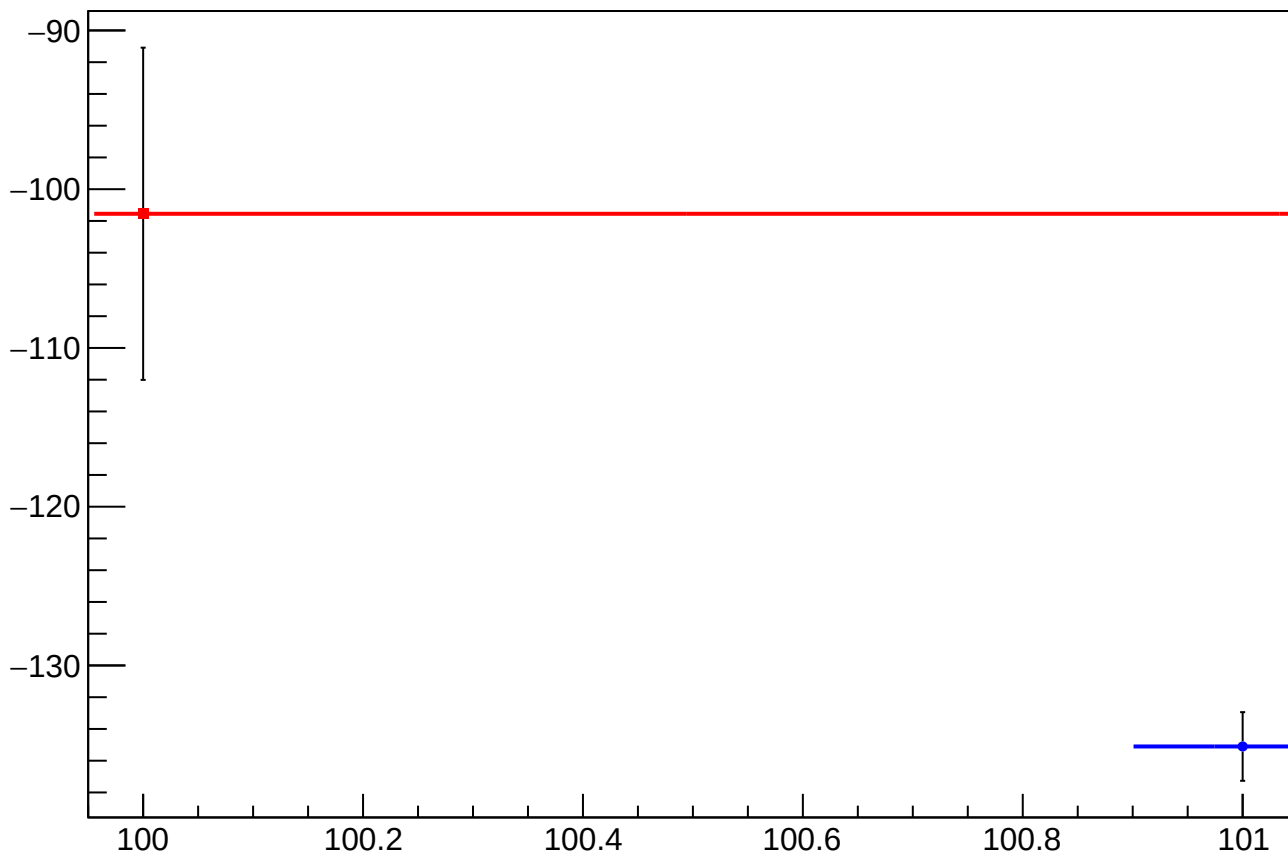
In: -40.961 $\pm$ 2.256  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -42.408 $\pm$ 2.224  $\chi^2$ /NDF: 14.6/1



reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -135.104+/-2.162  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -101.549+/-10.463  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

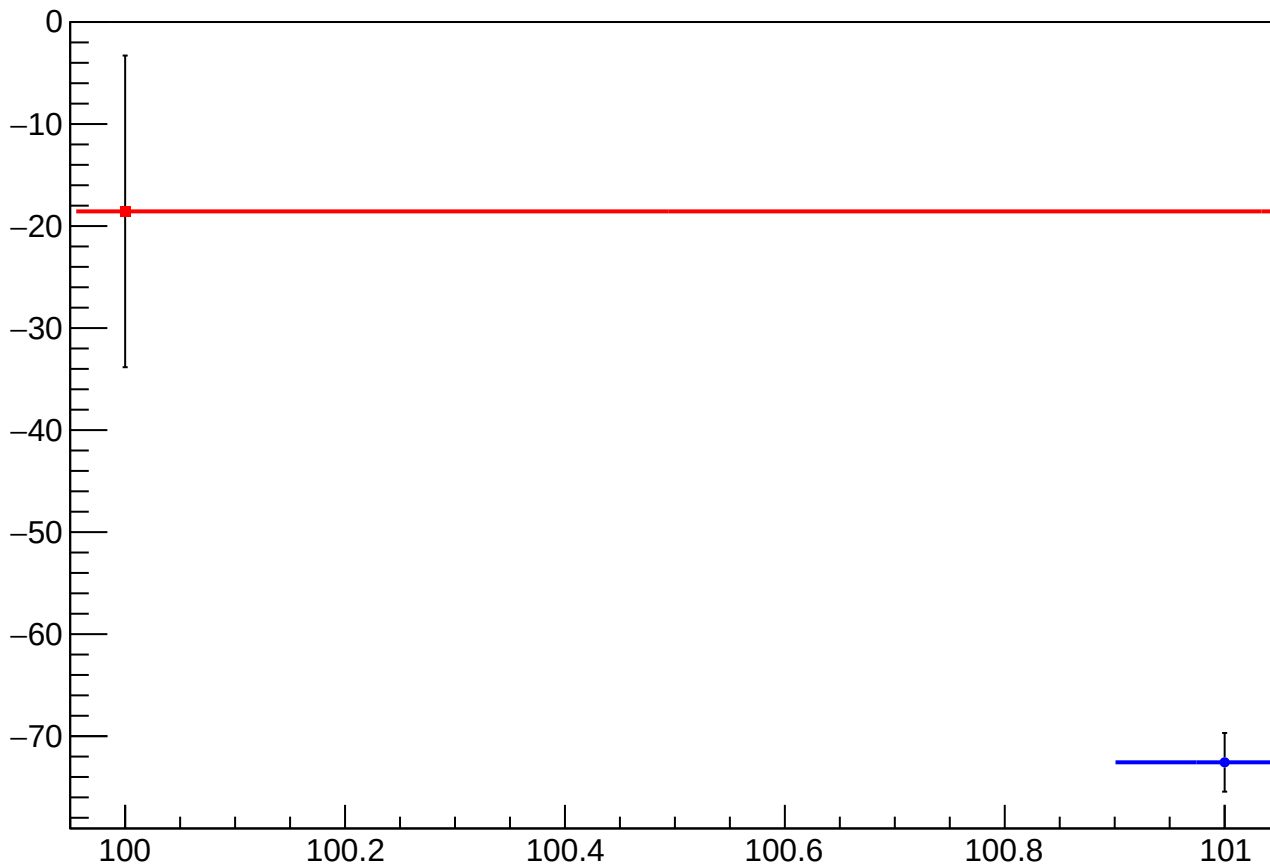
Right: -133.730+/-2.117  $\chi^2/\text{NDF}$ : 9.9/1

In: -135.104+/-2.162  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -133.730+/-2.117  $\chi^2/\text{NDF}$ : 9.9/1

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -72.563±/-2.876  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -18.561±/-15.275  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

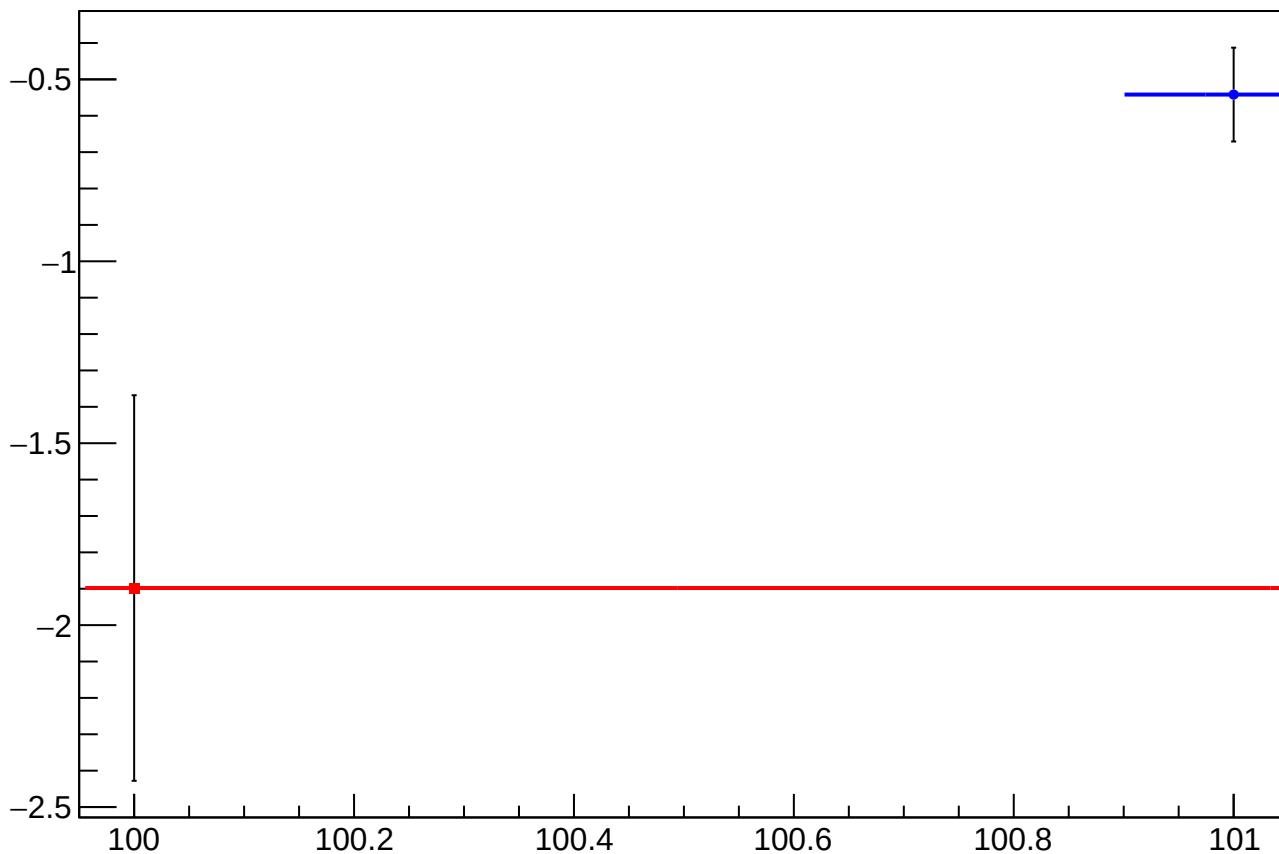
Right: -70.714±/-2.826  $\chi^2$ /NDF: 12.1/1

In: -72.563±/-2.876  $\chi^2$ /NDF:0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

All: -70.714±/-2.826  $\chi^2$ /NDF: 12.1/1

reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.542+/-0.129  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.898+/-0.530  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

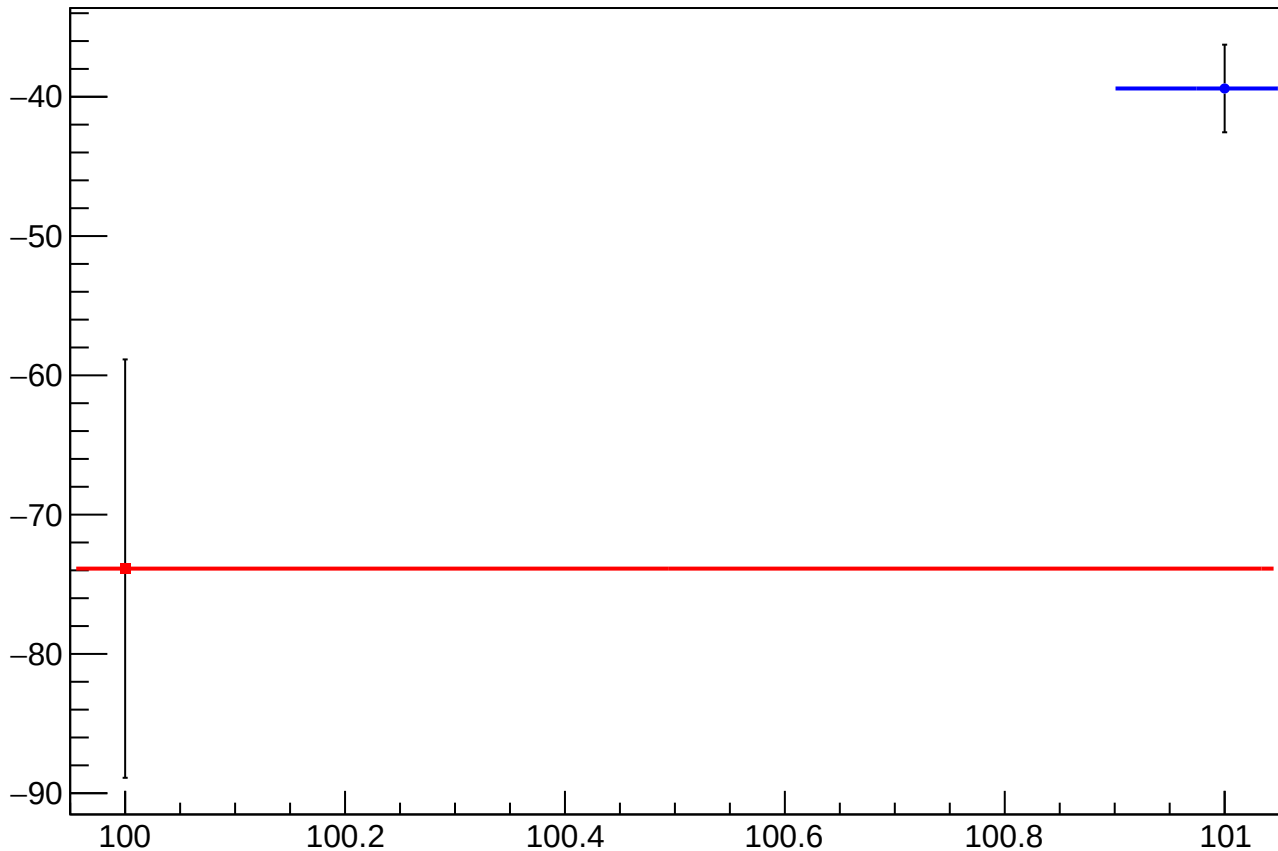
Right: -0.618+/-0.125  $\chi^2/\text{NDF}$ : 6.2/1

In: -0.542+/-0.129  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.618+/-0.125  $\chi^2/\text{NDF}$ : 6.2/1

reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -39.405 $\pm$ 3.145  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -73.875 $\pm$ 15.019  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

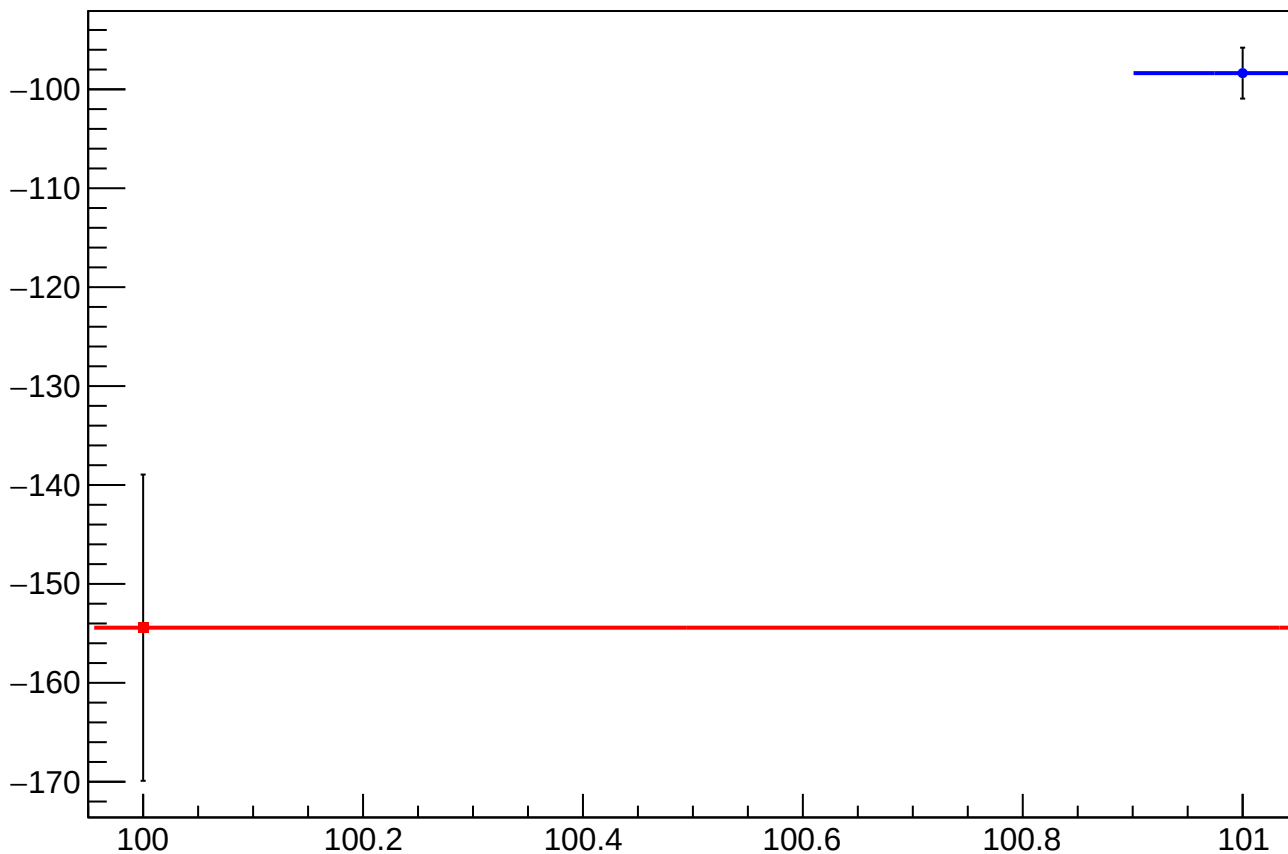
Right: -40.853 $\pm$ 3.079  $\chi^2$ /NDF: 5.0/1

In: -39.405 $\pm$ 3.145  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -40.853 $\pm$ 3.079  $\chi^2$ /NDF: 5.0/1

reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -98.363 $\pm$ 2.574  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -154.424 $\pm$ 15.479  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

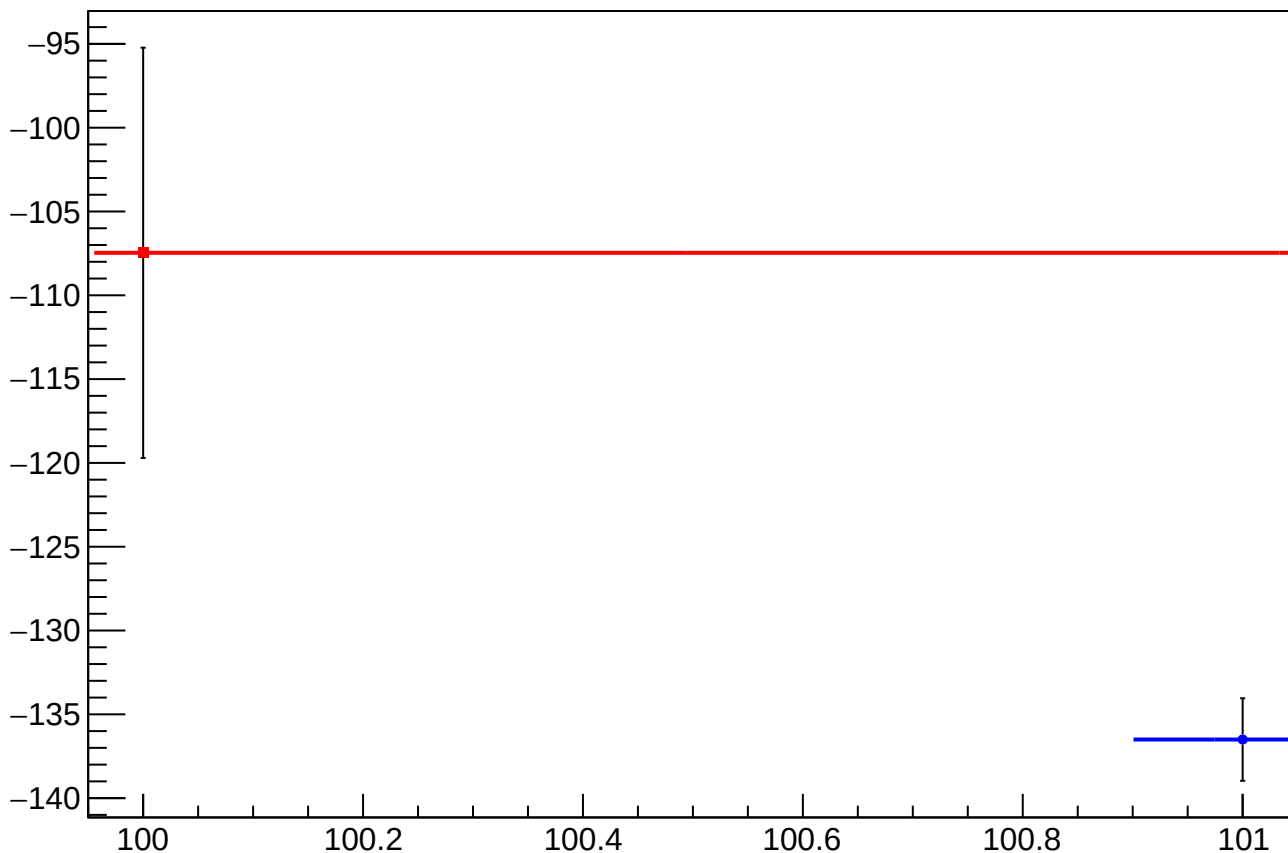
Right: -99.871 $\pm$ 2.539  $\chi^2$ /NDF: 12.8/1

In: -98.363 $\pm$ 2.574  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -99.871 $\pm$ 2.539  $\chi^2$ /NDF: 12.8/1

reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -136.503+/-2.462  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -107.465+/-12.239  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

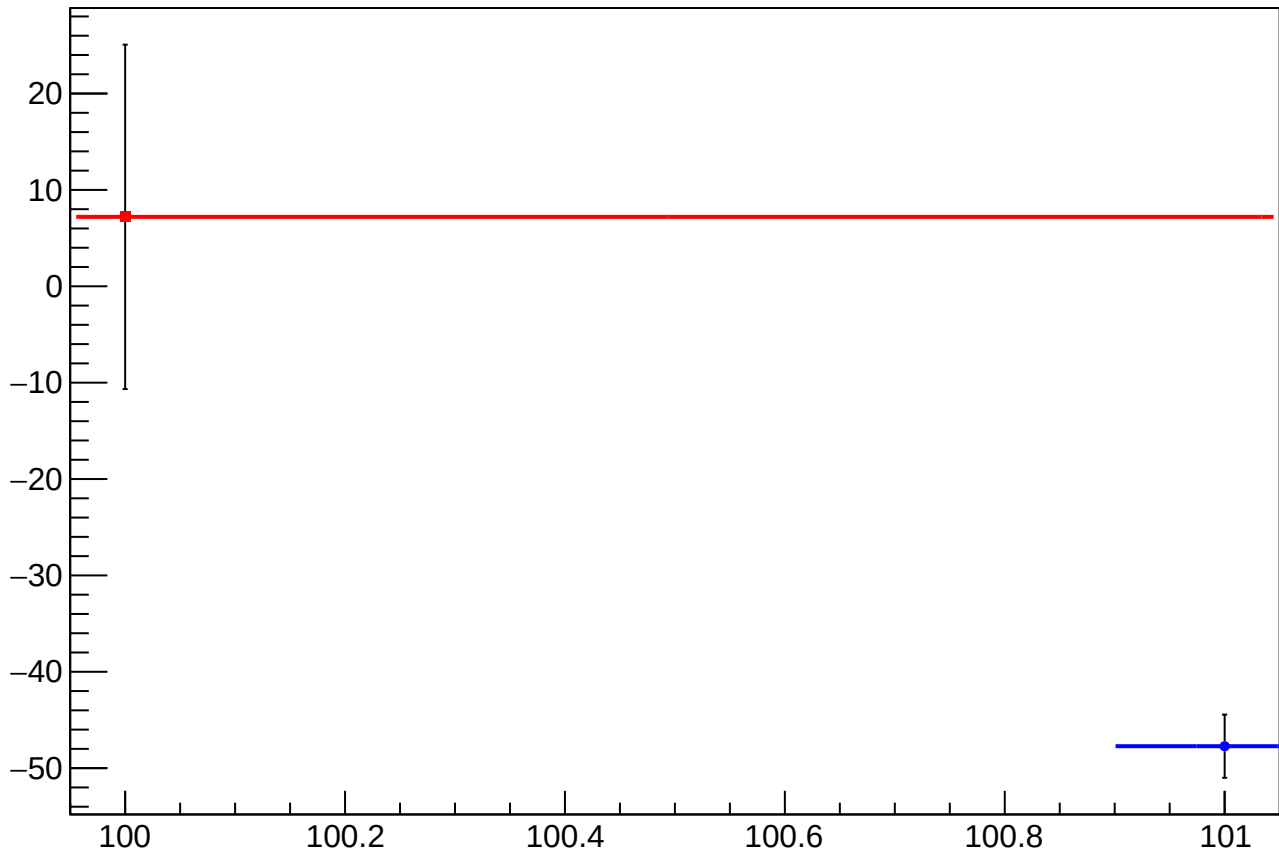
Right: -135.374+/-2.414  $\chi^2/\text{NDF}$ : 5.4/1

In: -136.503+/-2.462  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -135.374+/-2.414  $\chi^2/\text{NDF}$ : 5.4/1

reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -47.722 $\pm$ 3.278  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 7.204 $\pm$ 17.867  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

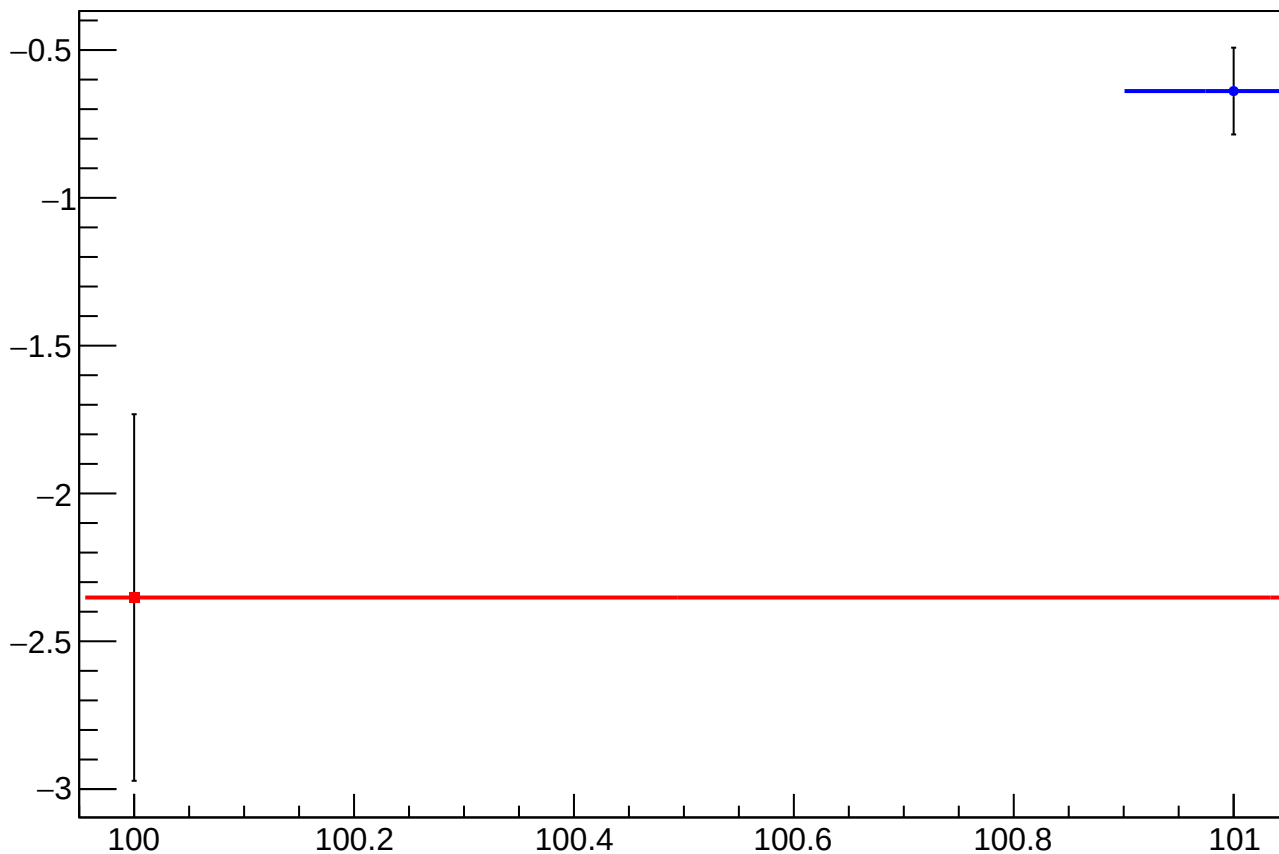
Right: -45.933 $\pm$ 3.225  $\chi^2$ /NDF: 9.1/1

In: -47.722 $\pm$ 3.278  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -45.933 $\pm$ 3.225  $\chi^2$ /NDF: 9.1/1

reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.639+/-0.147  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.352+/-0.620  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -0.730+/-0.143  $\chi^2/\text{NDF}$ : 7.2/1

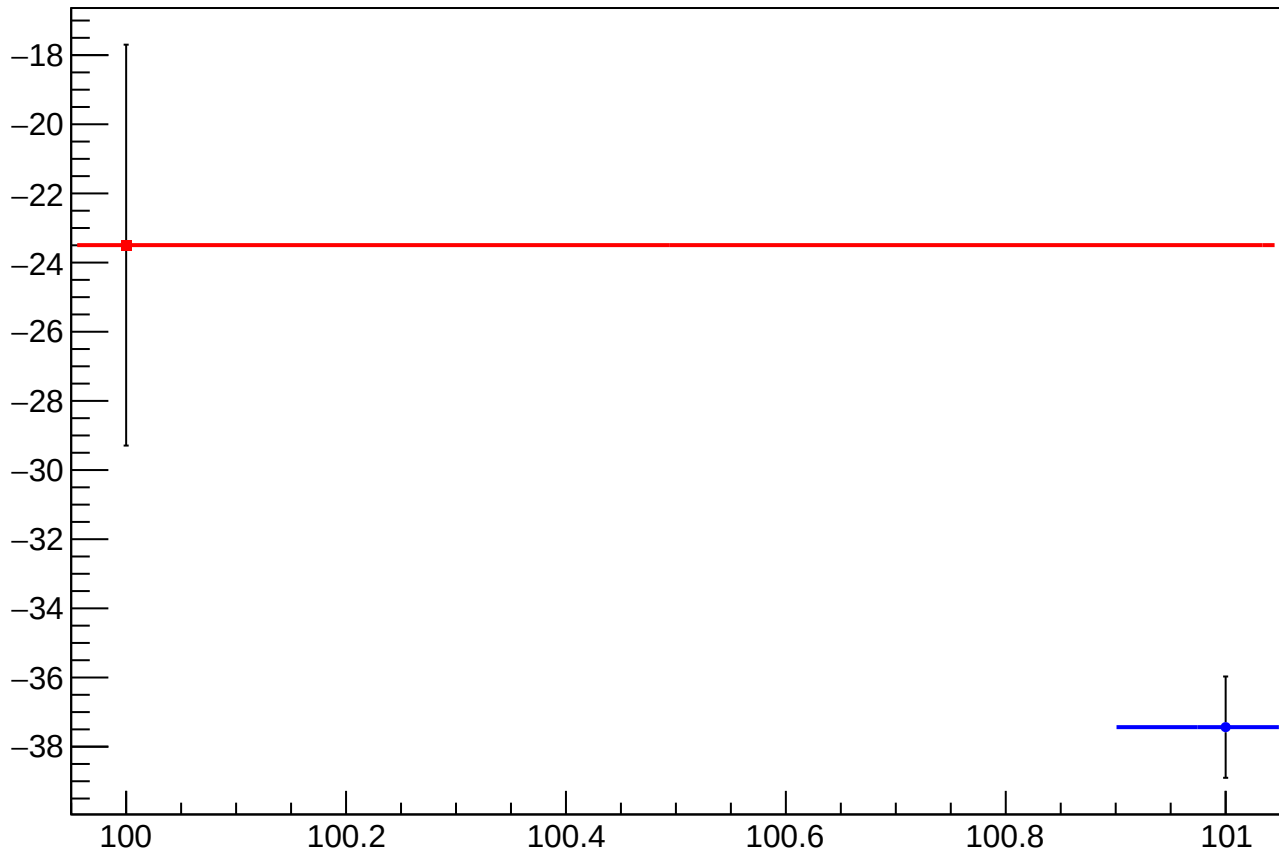
In: -0.639+/-0.147  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.730+/-0.143  $\chi^2/\text{NDF}$ : 7.2/1



reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -37.435 $\pm$ 1.465  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -23.495 $\pm$ 5.797  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

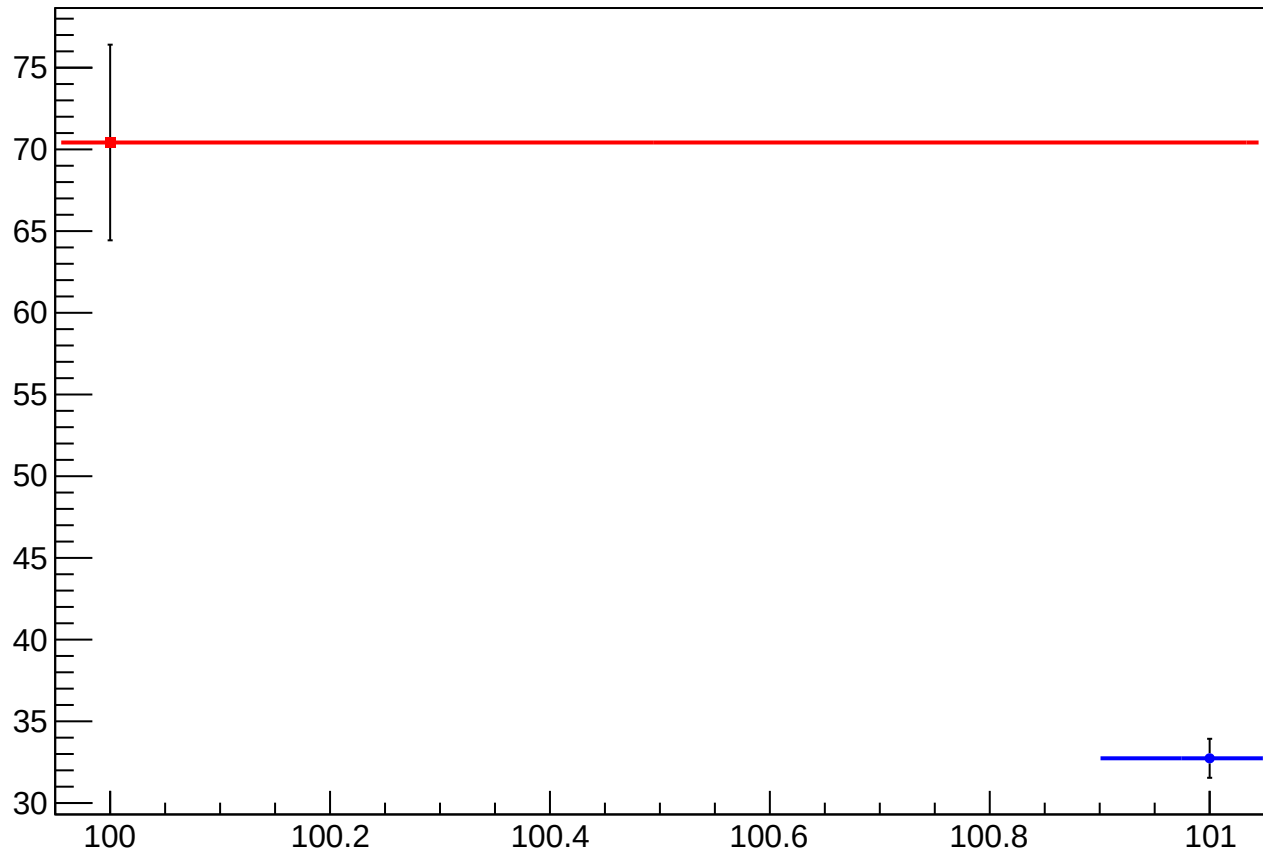
Right: -36.599 $\pm$ 1.420  $\chi^2$ /NDF: 5.4/1

In: -37.435 $\pm$ 1.465  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.599 $\pm$ 1.420  $\chi^2$ /NDF: 5.4/1

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 32.737 $\pm$ 1.193  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 70.422 $\pm$ 5.987  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

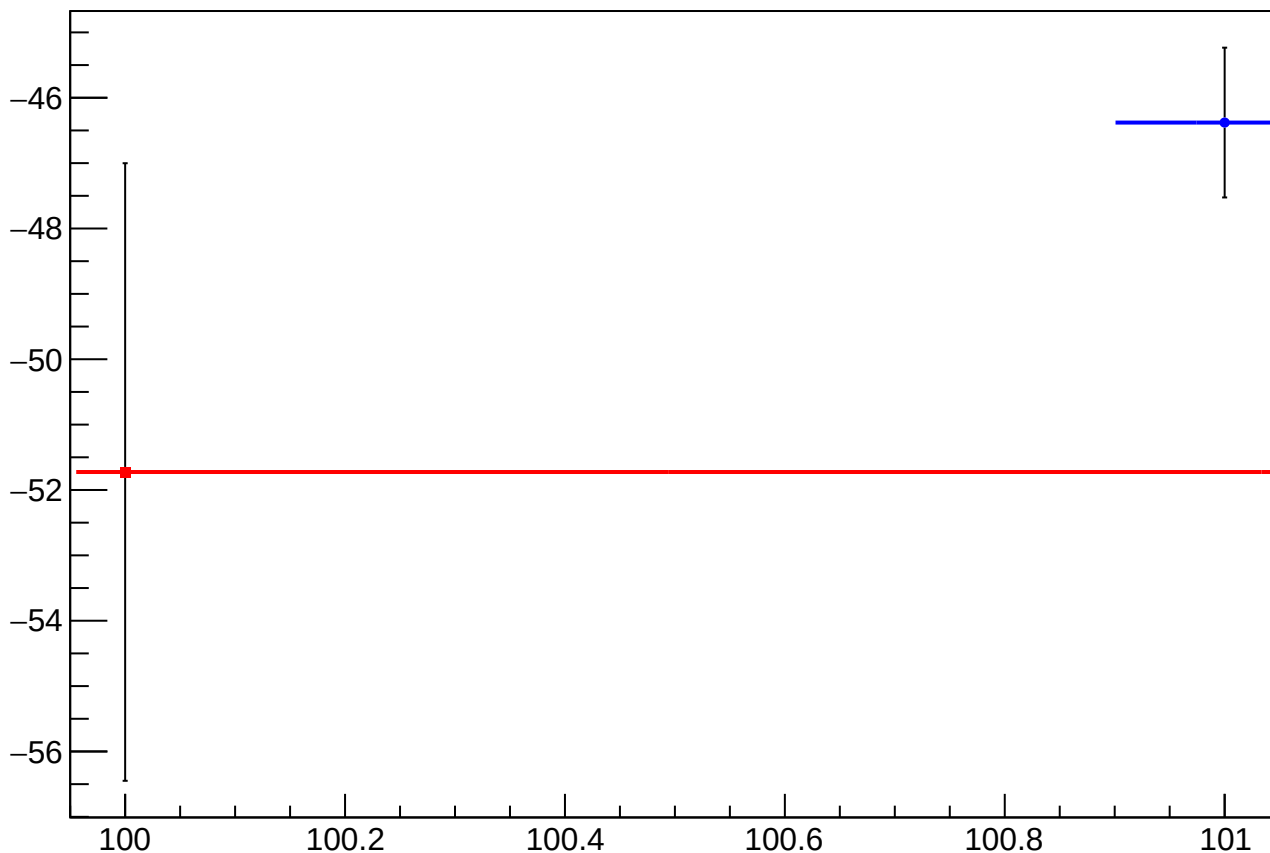
Right: 34.177 $\pm$ 1.170  $\chi^2$ /NDF: 38.1/1

In: 32.737 $\pm$ 1.193  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 34.177 $\pm$ 1.170  $\chi^2$ /NDF: 38.1/1

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -46.379 $\pm$ 1.146  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -51.725 $\pm$ 4.724  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

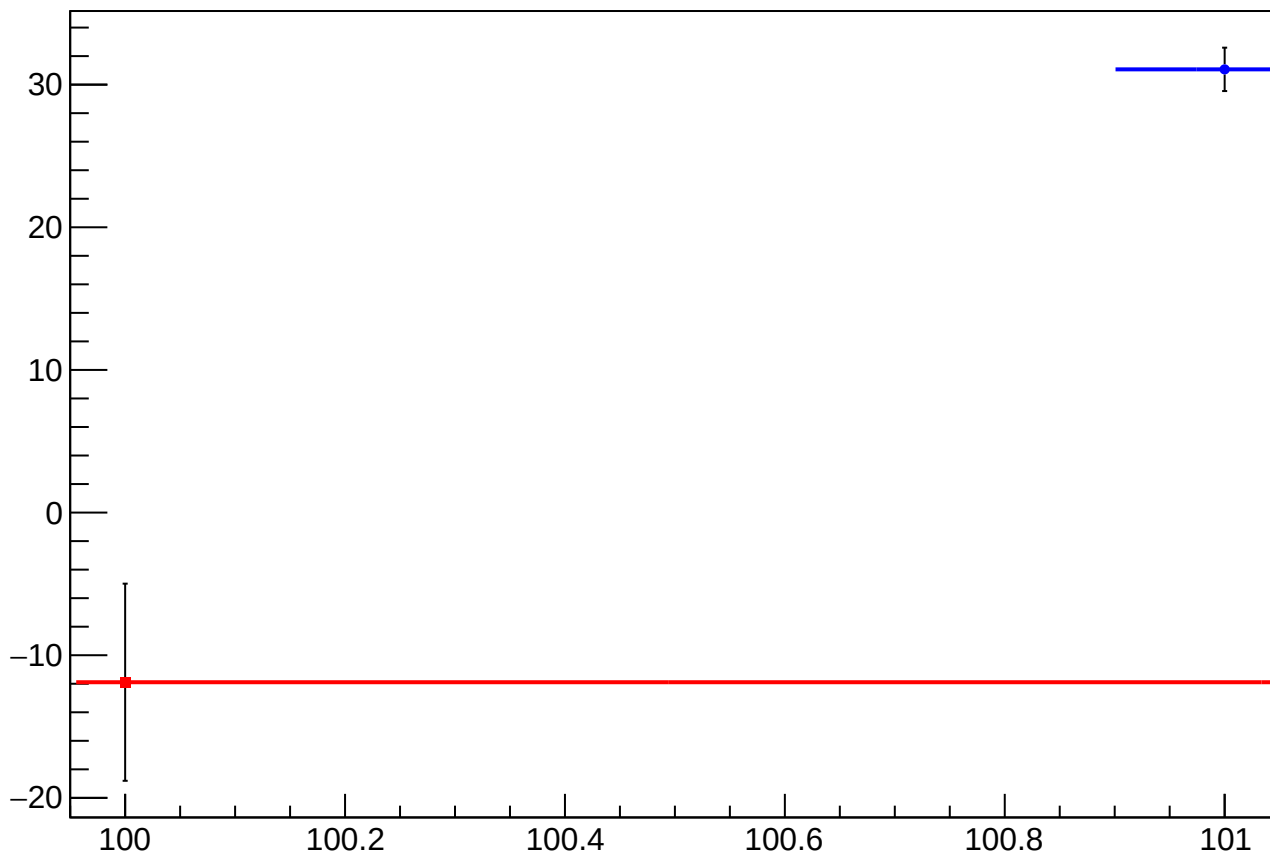
Right: -46.676 $\pm$ 1.113  $\chi^2$ /NDF: 1.2/1

In: -46.379 $\pm$ 1.146  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -46.676 $\pm$ 1.113  $\chi^2$ /NDF: 1.2/1

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 31.071 $\pm$ 1.521  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.893 $\pm$ 6.910  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

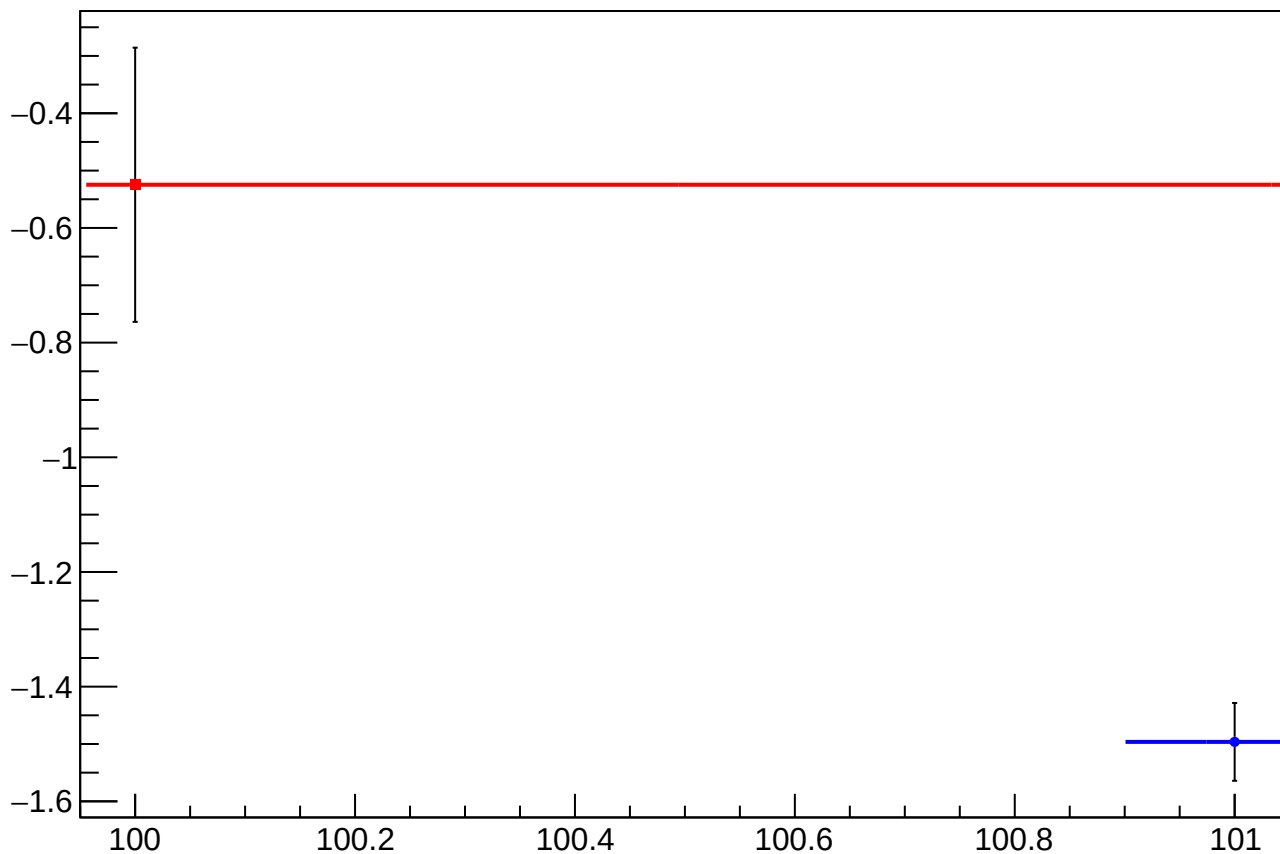
Right: 29.086 $\pm$ 1.485  $\chi^2$ /NDF: 36.9/1

In: 31.071 $\pm$ 1.521  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.086 $\pm$ 1.485  $\chi^2$ /NDF: 36.9/1

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-1.496 \pm 0.068$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.525 \pm 0.239$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

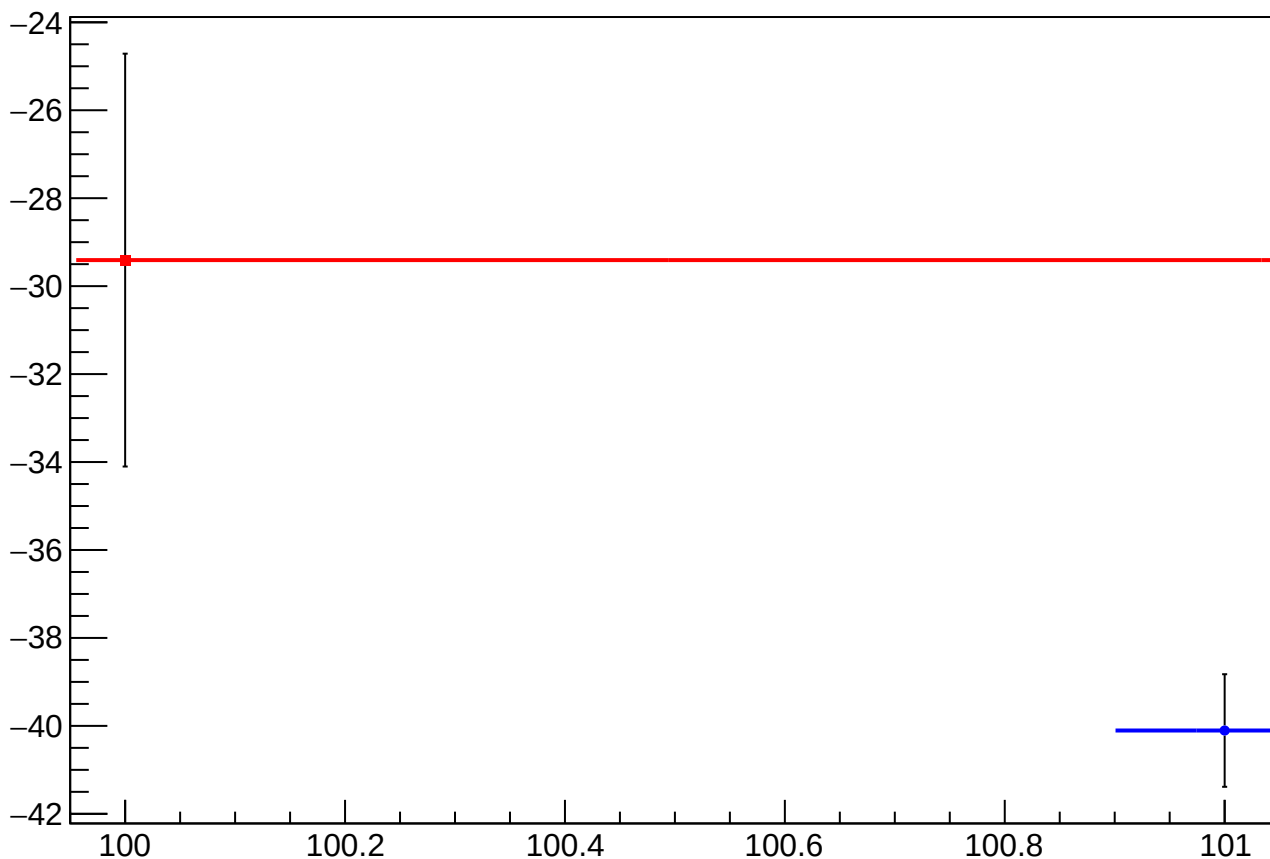
Right:  $-1.424 \pm 0.065$   $\chi^2/\text{NDF}: 15.3/1$

In:  $-1.496 \pm 0.068$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-1.424 \pm 0.065$   $\chi^2/\text{NDF}: 15.3/1$

reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -40.105+/-1.280  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29.408+/-4.694  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

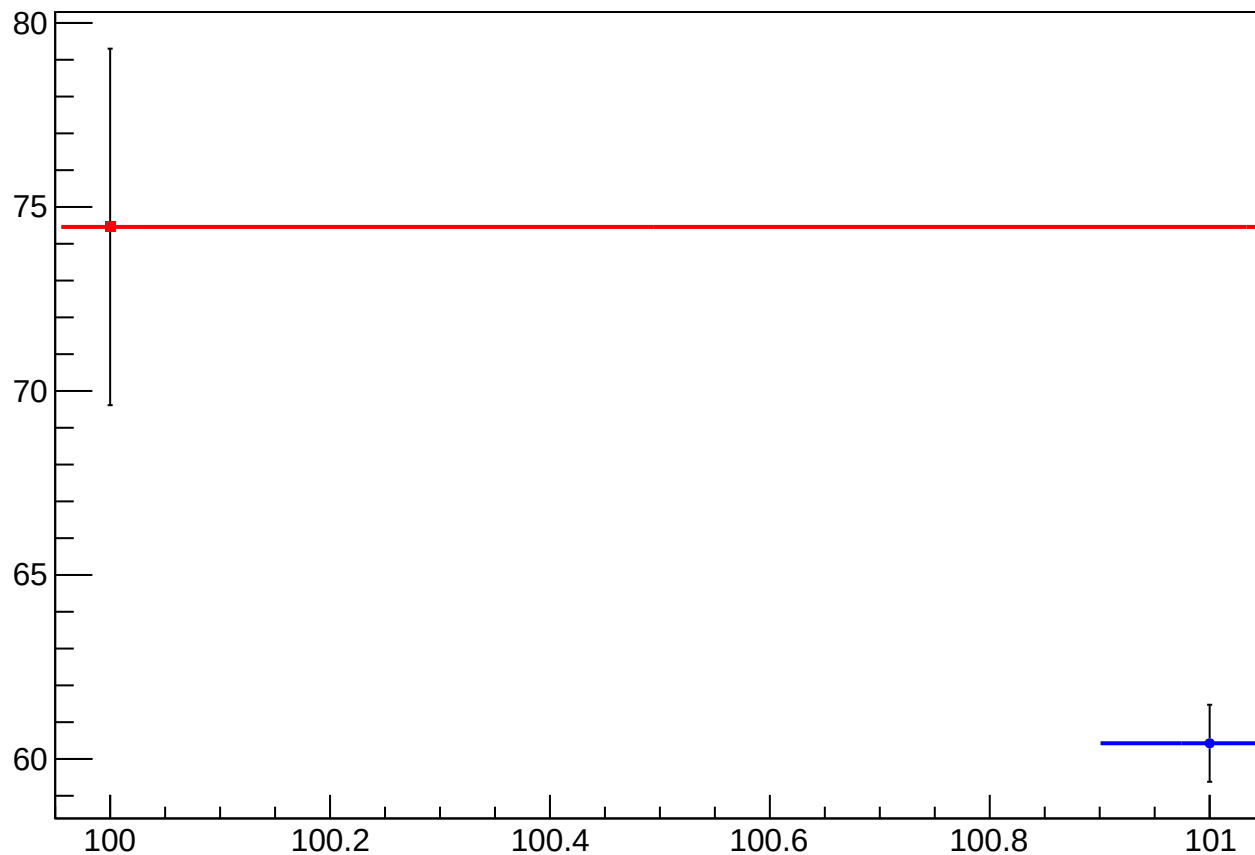
Right: -39.365+/-1.235  $\chi^2/\text{NDF}$ : 4.8/1

In: -40.105+/-1.280  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -39.365+/-1.235  $\chi^2/\text{NDF}$ : 4.8/1

reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 60.427+/-1.047  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 74.458+/-4.844  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

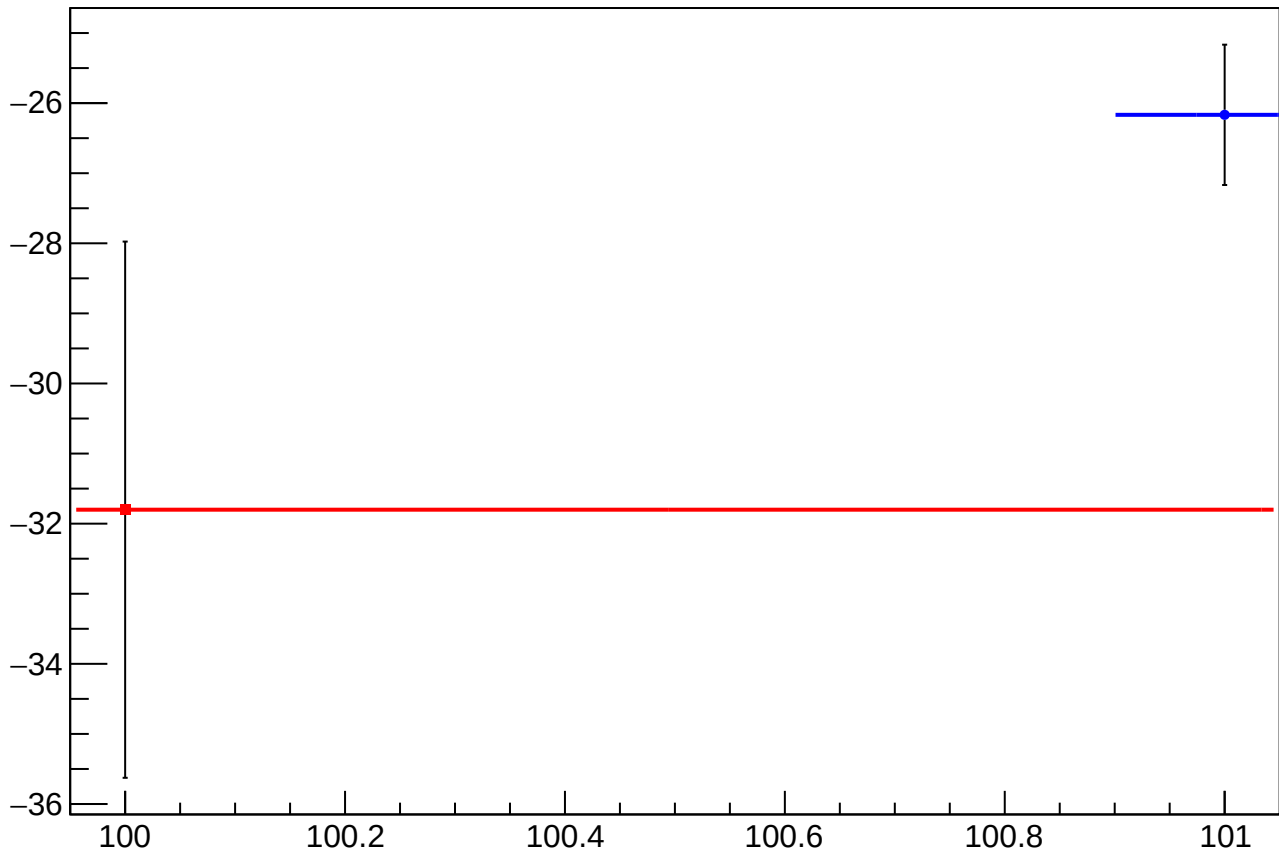
Right: 61.053+/-1.023  $\chi^2/\text{NDF}$ : 8.0/1

In: 60.427+/-1.047  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 61.053+/-1.023  $\chi^2/\text{NDF}$ : 8.0/1

reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -26.167 $\pm$ 1.001  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -31.801 $\pm$ 3.825  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -26.528 $\pm$ 0.968  $\chi^2$ /NDF: 2.0/1

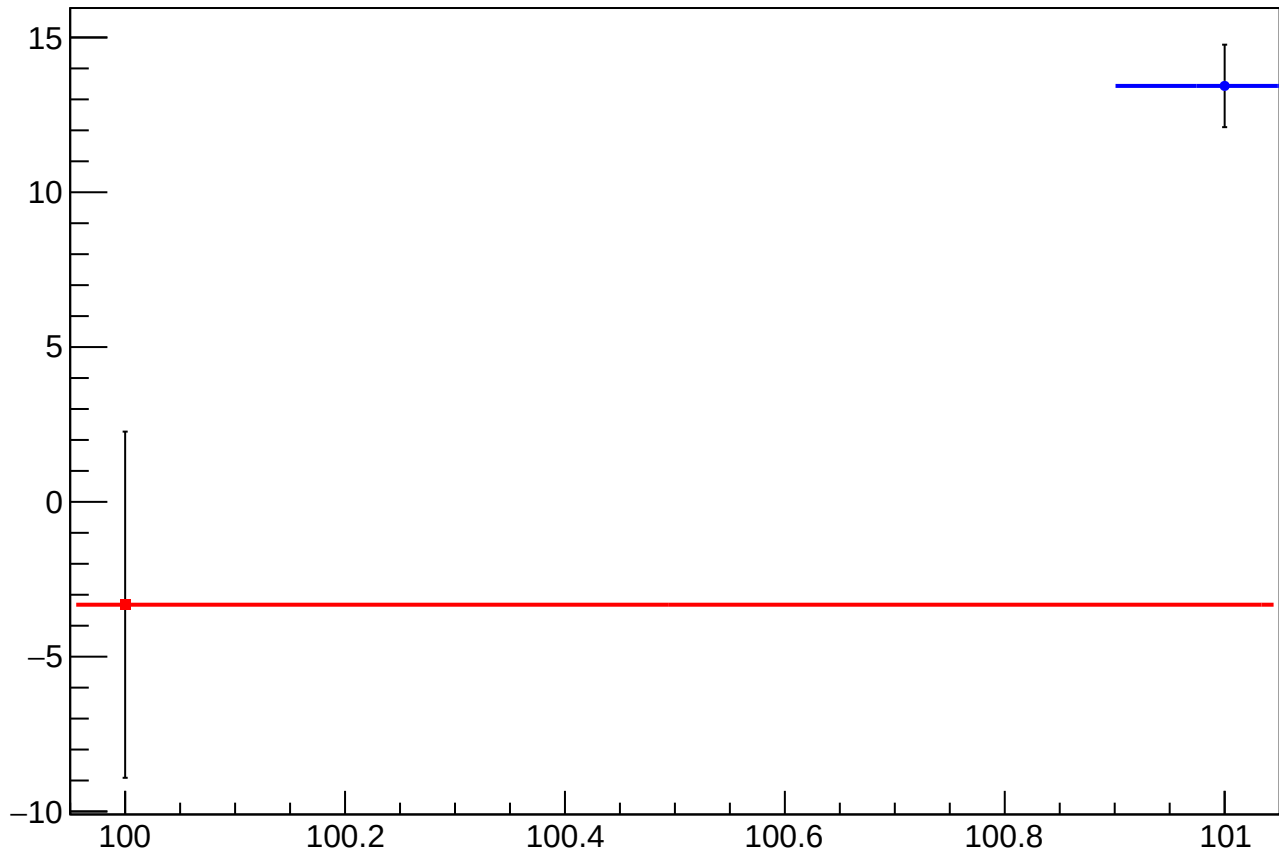
In: -26.167 $\pm$ 1.001  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -26.528 $\pm$ 0.968  $\chi^2$ /NDF: 2.0/1



reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 13.435+/-1.332  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.322+/-5.591  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

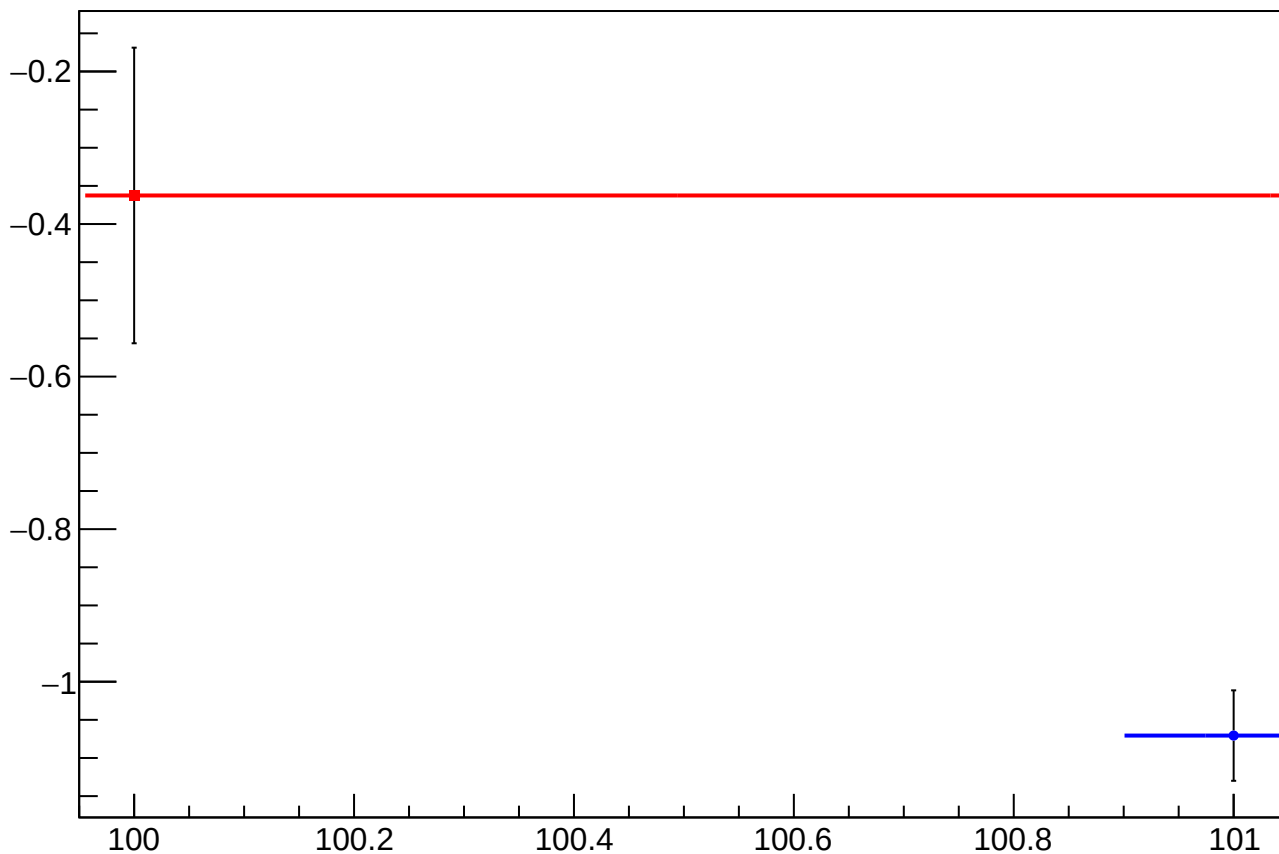
Right: 12.535+/-1.296  $\chi^2/\text{NDF}$ : 8.5/1

In: 13.435+/-1.332  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.535+/-1.296  $\chi^2/\text{NDF}$ : 8.5/1

reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -1.071+/-0.059  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.363+/-0.194  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

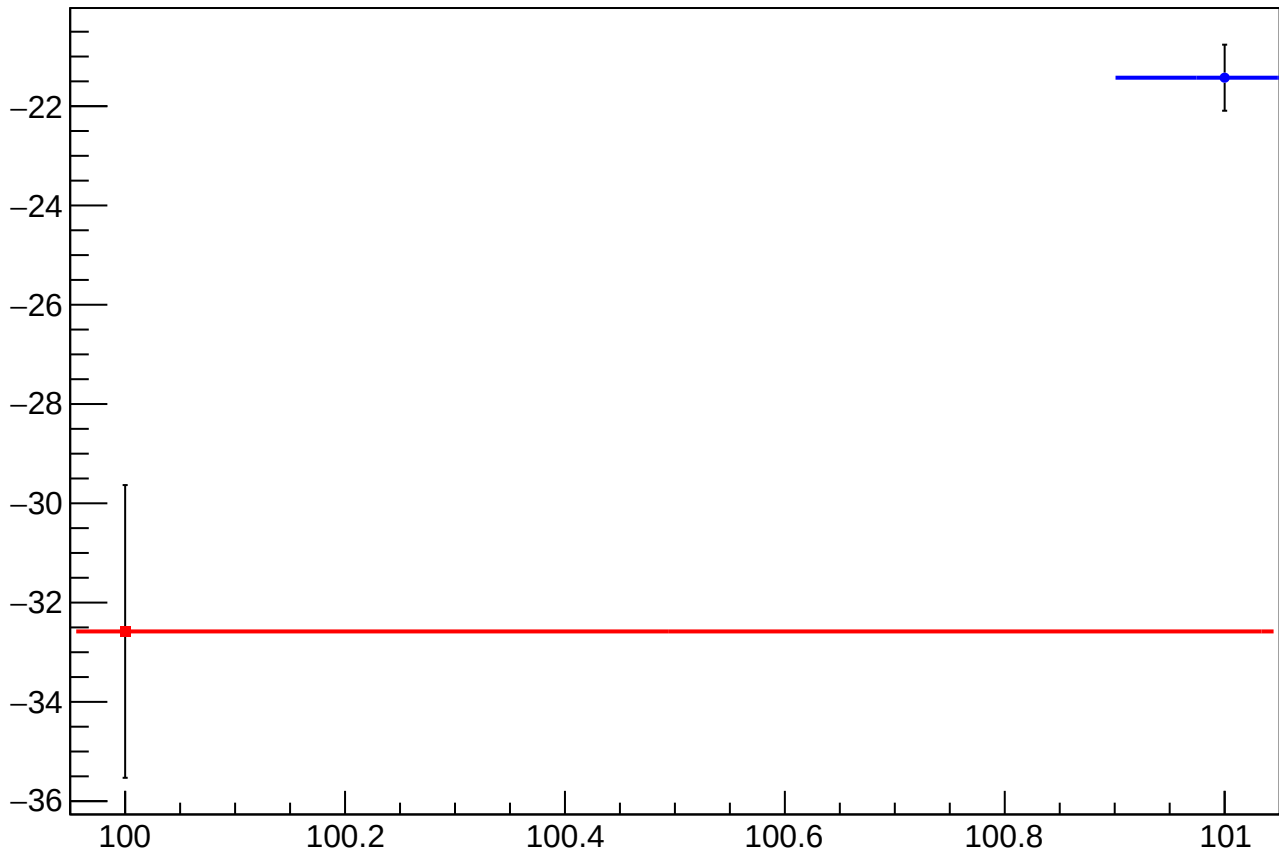
Right: -1.010+/-0.057  $\chi^2/\text{NDF}$ : 12.2/1

In: -1.071+/-0.059  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.010+/-0.057  $\chi^2/\text{NDF}$ : 12.2/1

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -21.426+/-0.665  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -32.581+/-2.948  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

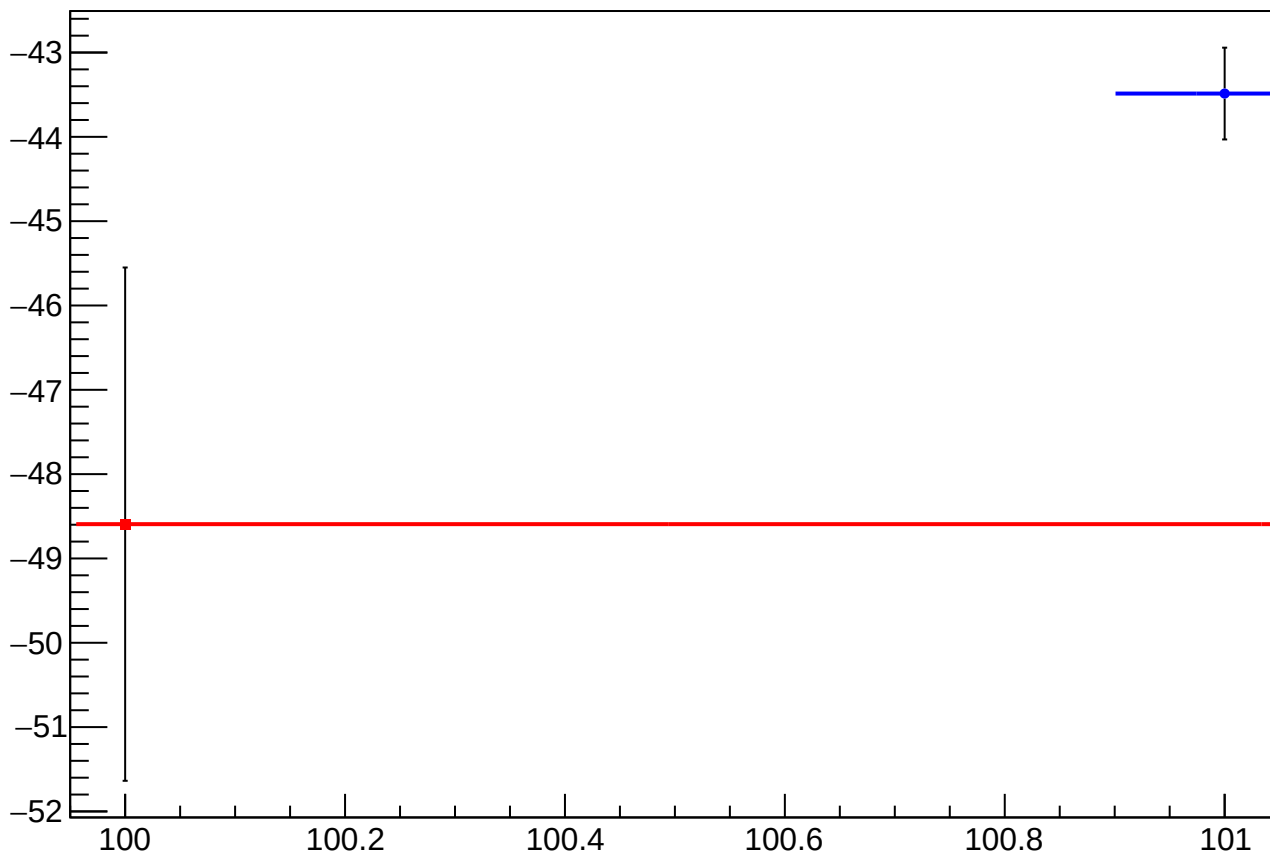
Right: -21.967+/-0.649  $\chi^2$ /NDF: 13.6/1

In: -21.426+/-0.665  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -21.967+/-0.649  $\chi^2$ /NDF: 13.6/1

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -43.487 $\pm$ 0.544  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -48.593 $\pm$ 3.044  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

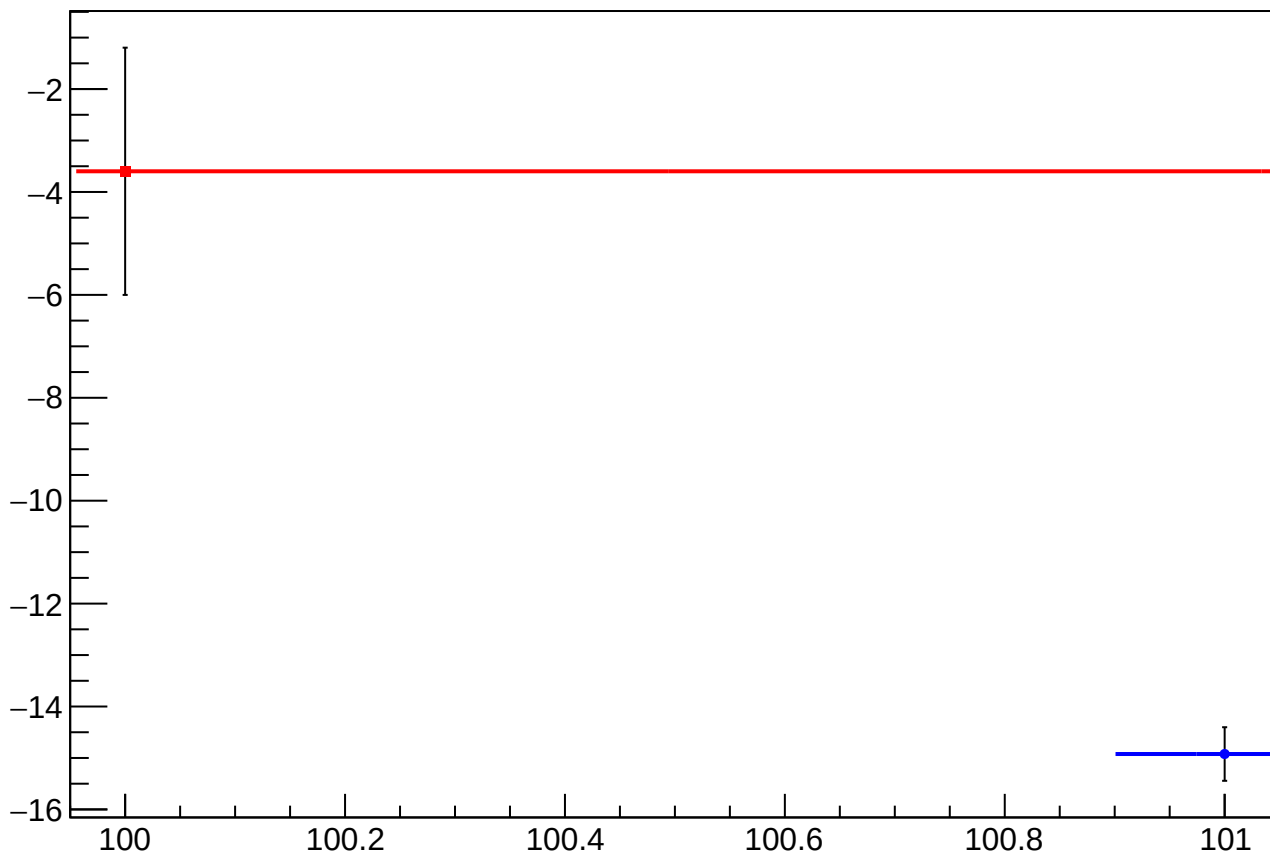
Right: -43.645 $\pm$ 0.536  $\chi^2$ /NDF: 2.7/1

In: -43.487 $\pm$ 0.544  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -43.645 $\pm$ 0.536  $\chi^2$ /NDF: 2.7/1

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -14.923 $\pm$ 0.521  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.598 $\pm$ 2.403  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

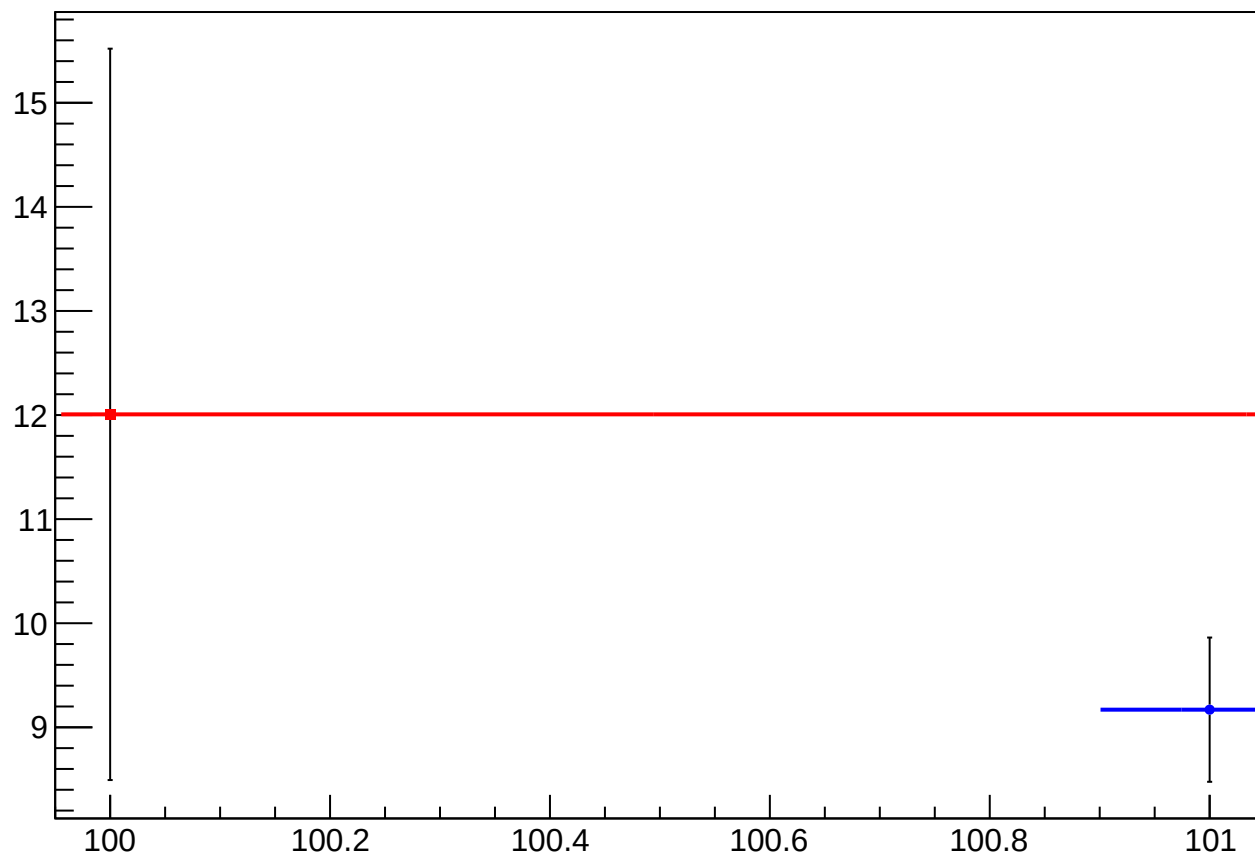
Right: -14.415 $\pm$ 0.509  $\chi^2$ /NDF: 21.2/1

In: -14.923 $\pm$ 0.521  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.415 $\pm$ 0.509  $\chi^2$ /NDF: 21.2/1

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 9.169 $\pm$ 0.693  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 12.007 $\pm$ 3.513  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

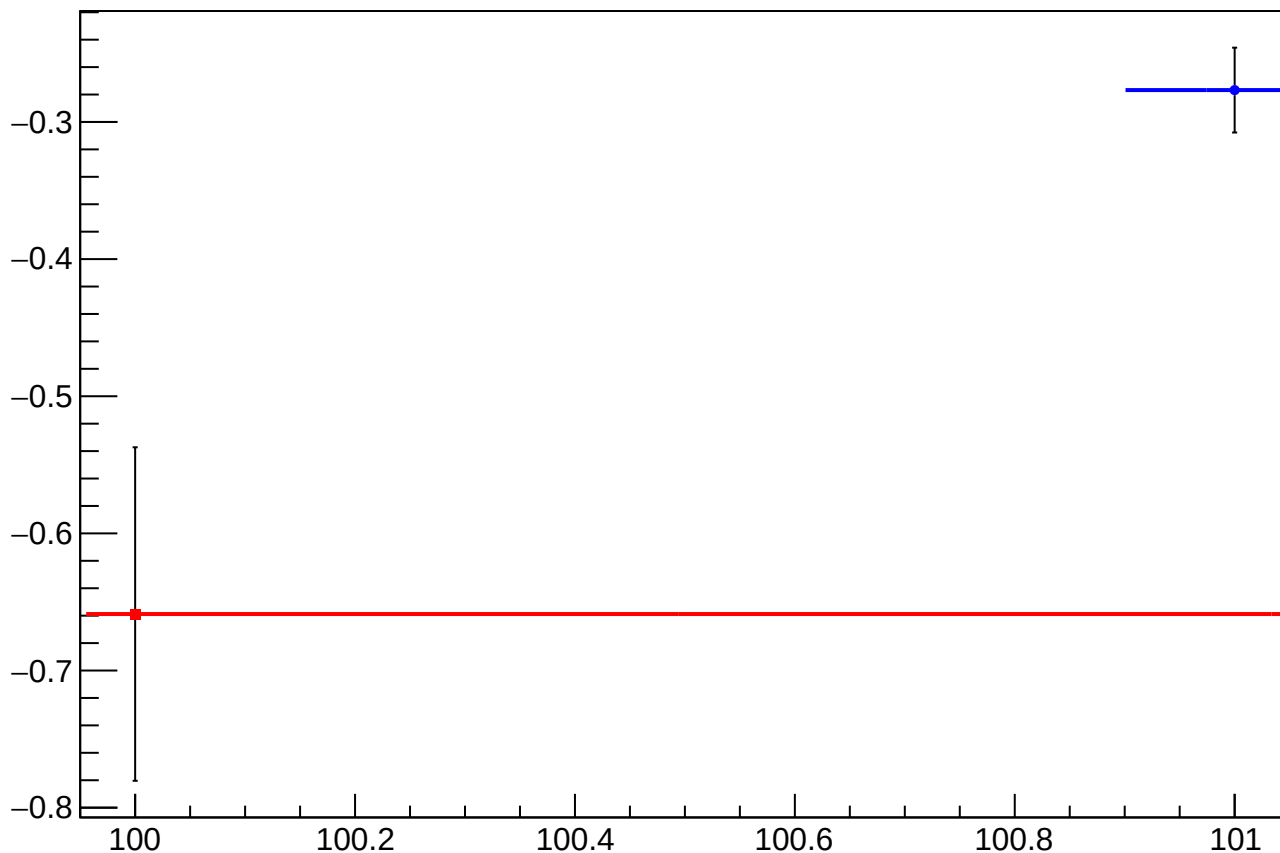
Right: 9.276 $\pm$ 0.680  $\chi^2$ /NDF: 0.6/1

In: 9.169 $\pm$ 0.693  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.276 $\pm$ 0.680  $\chi^2$ /NDF: 0.6/1

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.277 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.659 $\pm$ 0.122  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

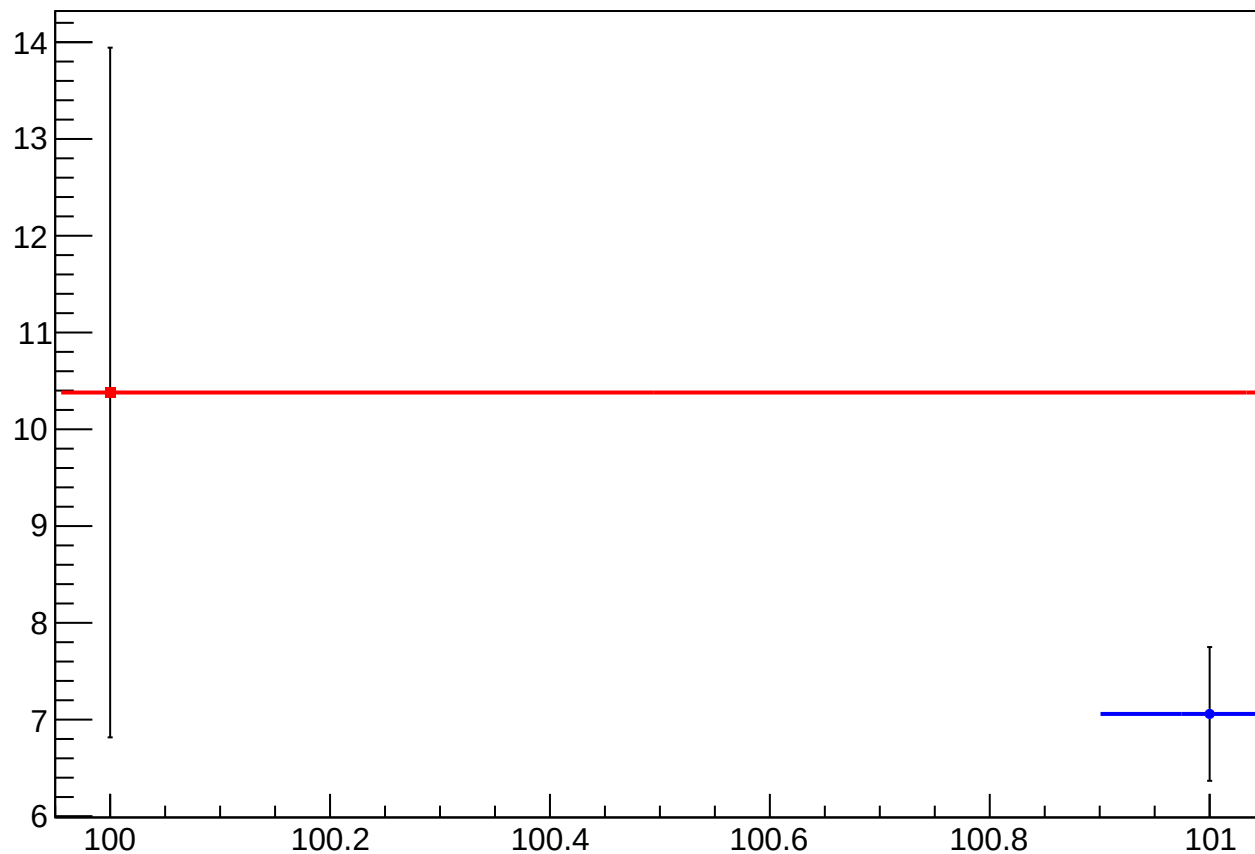
Right: -0.300 $\pm$ 0.030  $\chi^2$ /NDF: 9.3/1

In: -0.277 $\pm$ 0.031  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.300 $\pm$ 0.030  $\chi^2$ /NDF: 9.3/1

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 7.059+/-0.691  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.380+/-3.563  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 7.179+/-0.678  $\chi^2/\text{NDF}$ : 0.8/1

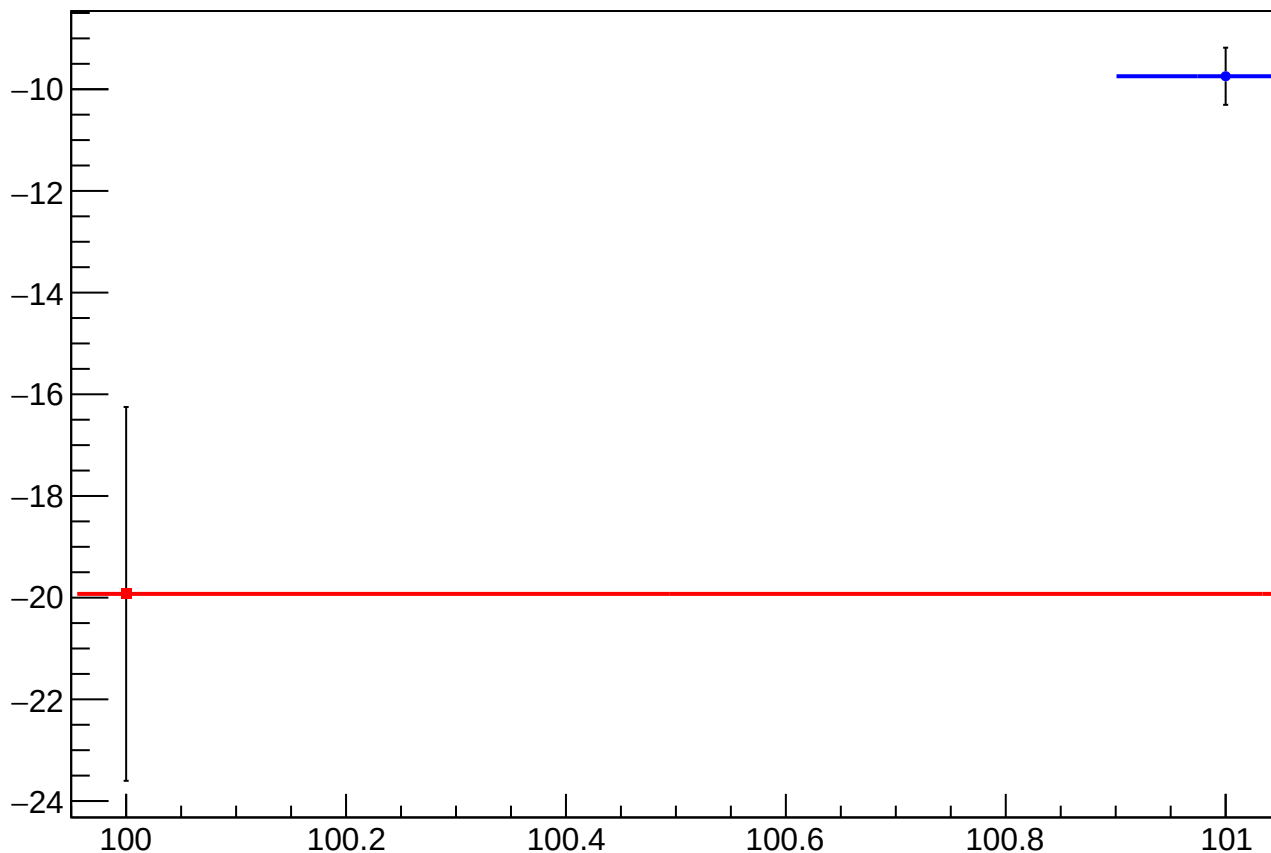
In: 7.059+/-0.691  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.179+/-0.678  $\chi^2/\text{NDF}$ : 0.8/1



reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -9.744+/-0.562  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.926+/-3.676  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

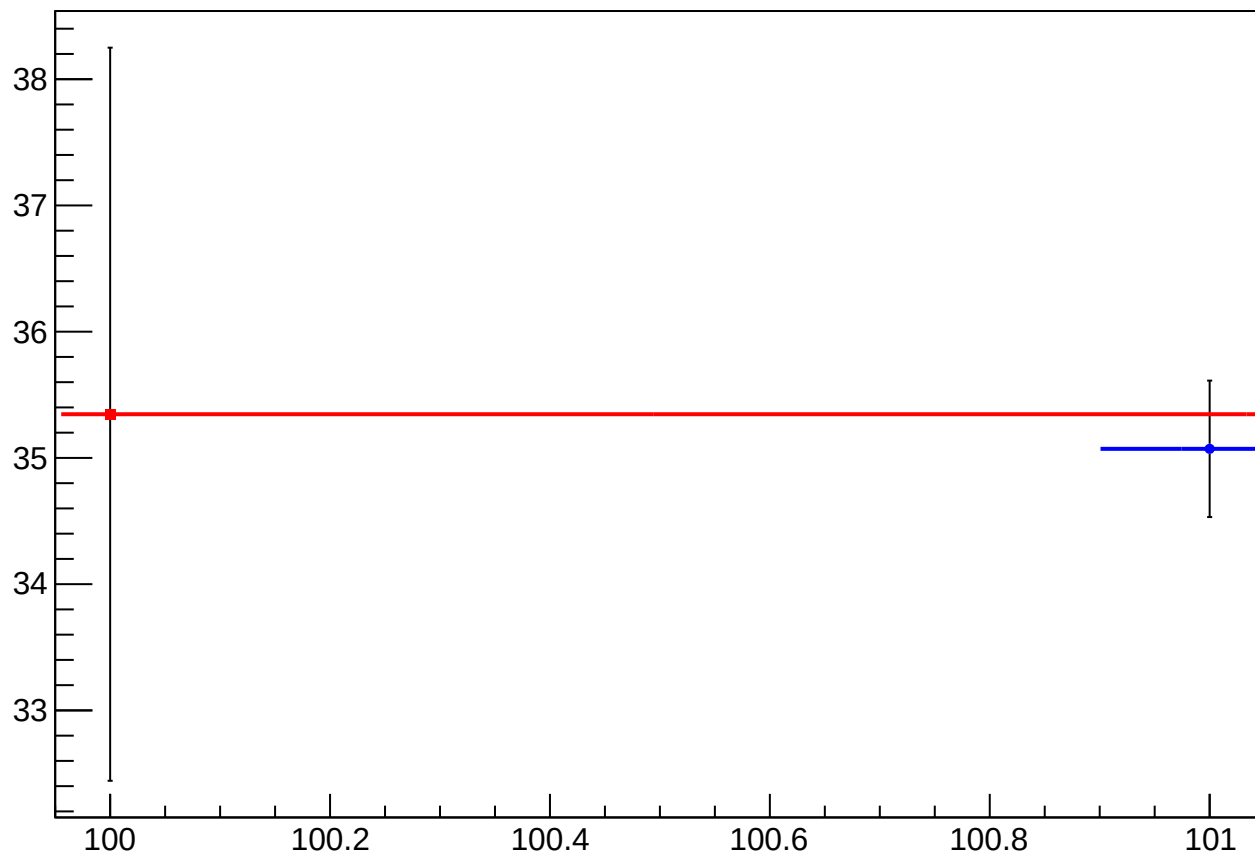
Right: -9.977+/-0.556  $\chi^2/\text{NDF}$ : 7.5/1

In: -9.744+/-0.562  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.977+/-0.556  $\chi^2/\text{NDF}$ : 7.5/1

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 35.072 $\pm$ 0.540  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 35.346 $\pm$ 2.904  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

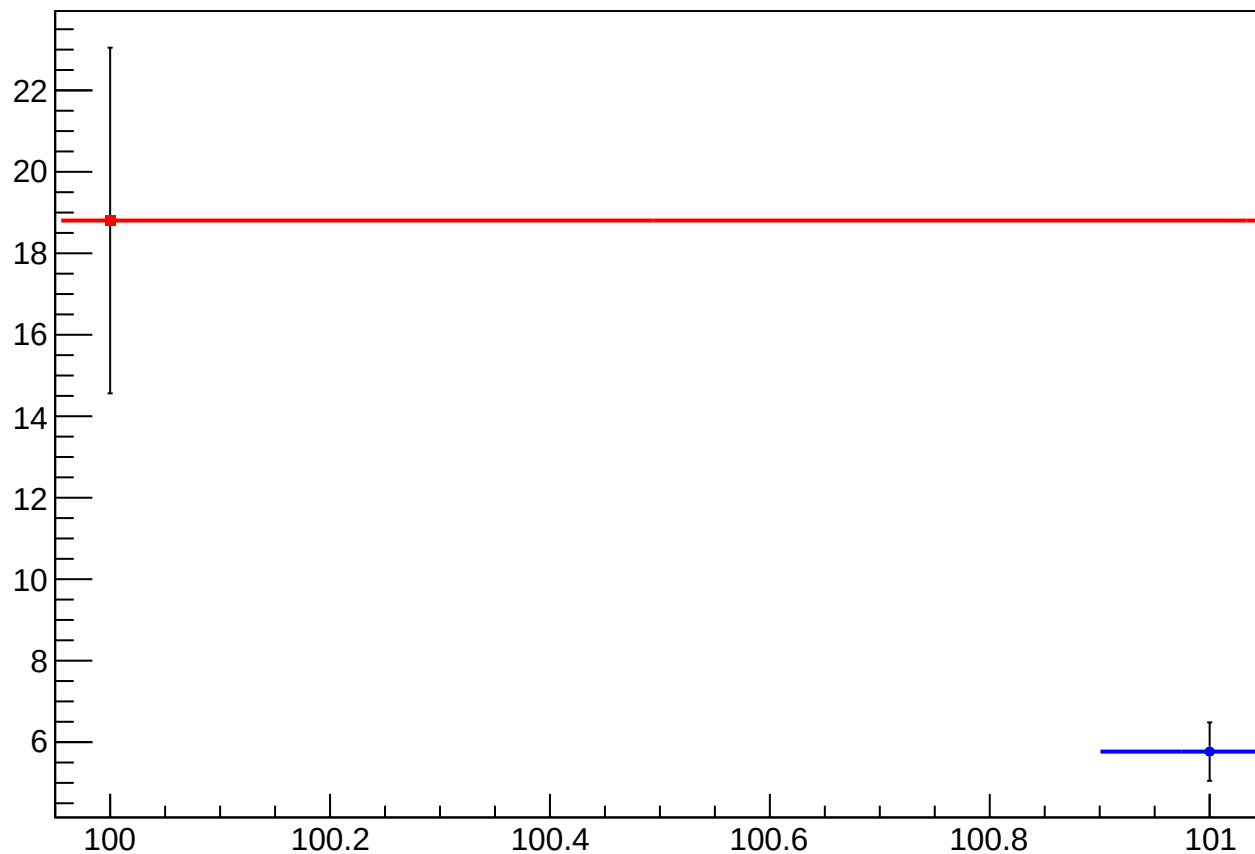
Right: 35.081 $\pm$ 0.531  $\chi^2$ /NDF: 0.0/1

In: 35.072 $\pm$ 0.540  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 35.081 $\pm$ 0.531  $\chi^2$ /NDF: 0.0/1

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 5.768 $\pm$ 0.717  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 18.804 $\pm$ 4.243  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

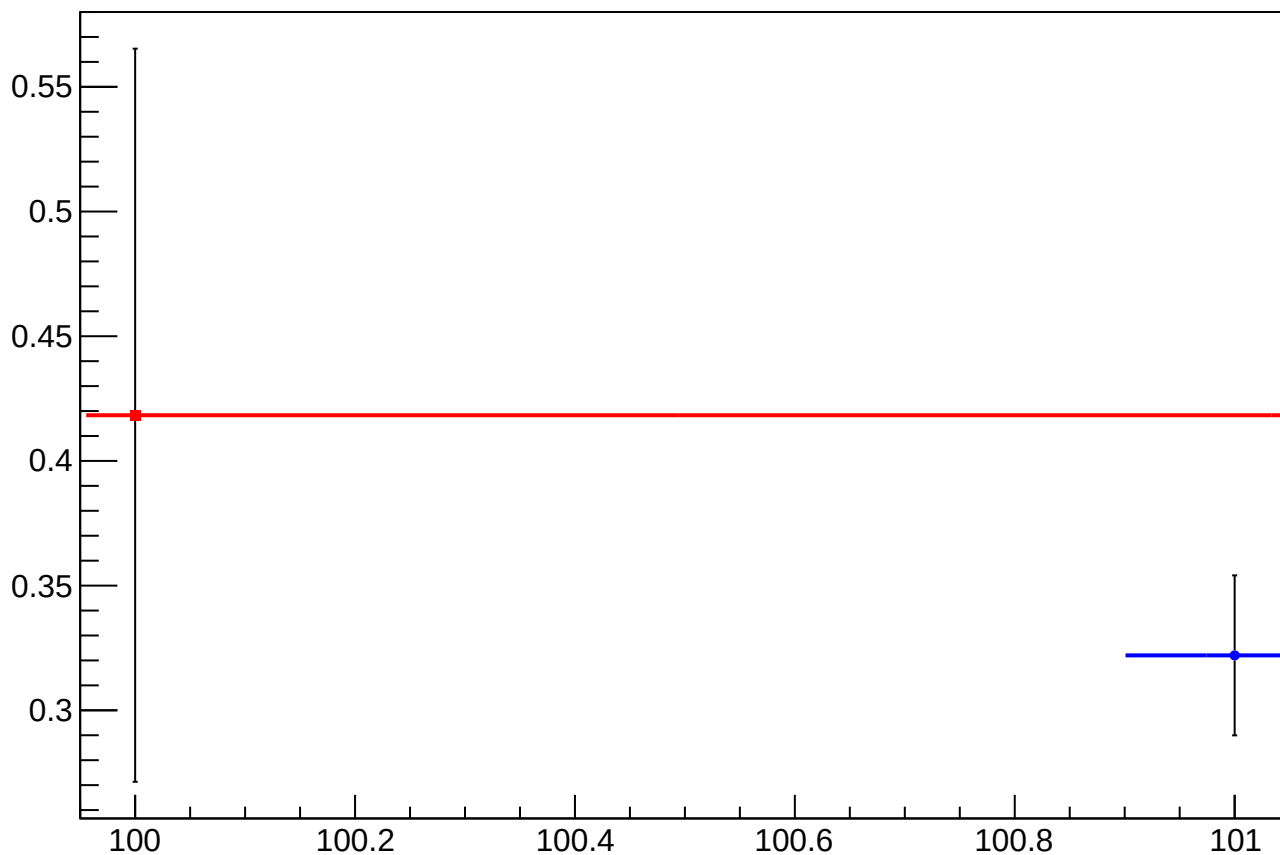
Right: 6.129 $\pm$ 0.707  $\chi^2$ /NDF: 9.2/1

In: 5.768 $\pm$ 0.717  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.129 $\pm$ 0.707  $\chi^2$ /NDF: 9.2/1

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.322 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.418 $\pm$ 0.147  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

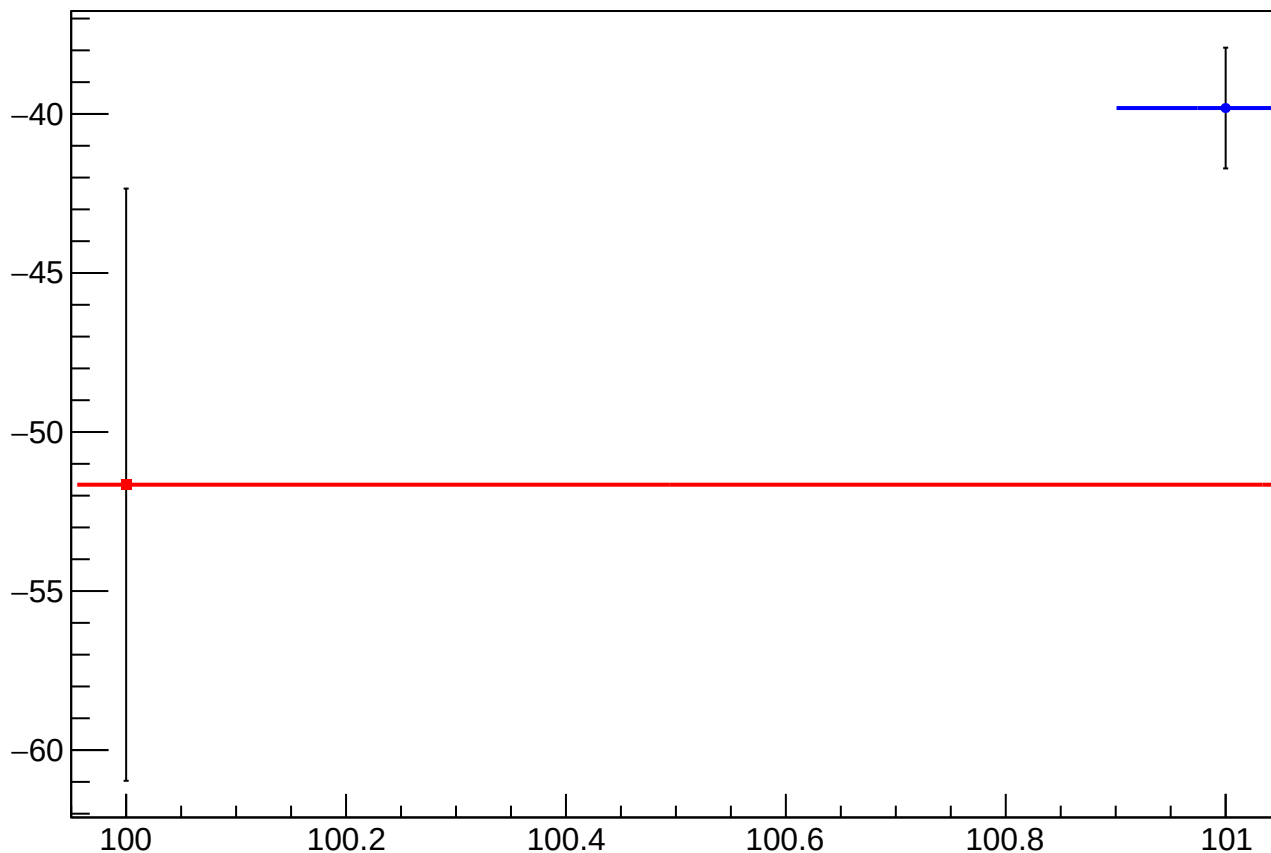
Right: 0.326 $\pm$ 0.031  $\chi^2$ /NDF: 0.4/1

In: 0.322 $\pm$ 0.032  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.326 $\pm$ 0.031  $\chi^2$ /NDF: 0.4/1

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -39.814 $\pm$ 1.898  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -51.656 $\pm$ 9.310  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

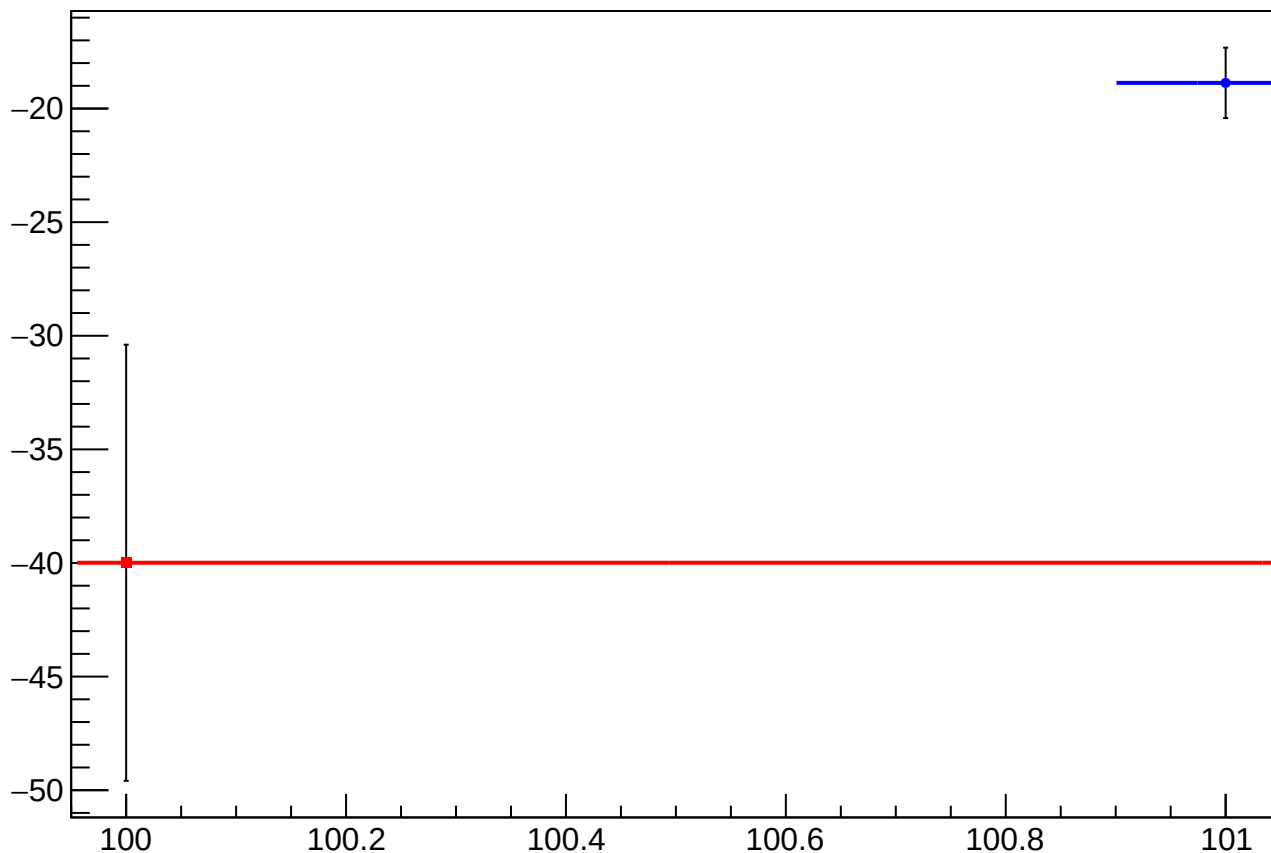
Right: -40.287 $\pm$ 1.860  $\chi^2$ /NDF: 1.6/1

In: -39.814 $\pm$ 1.898  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -40.287 $\pm$ 1.860  $\chi^2$ /NDF: 1.6/1

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -18.871 $\pm$ 1.550  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -39.989 $\pm$ 9.597  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

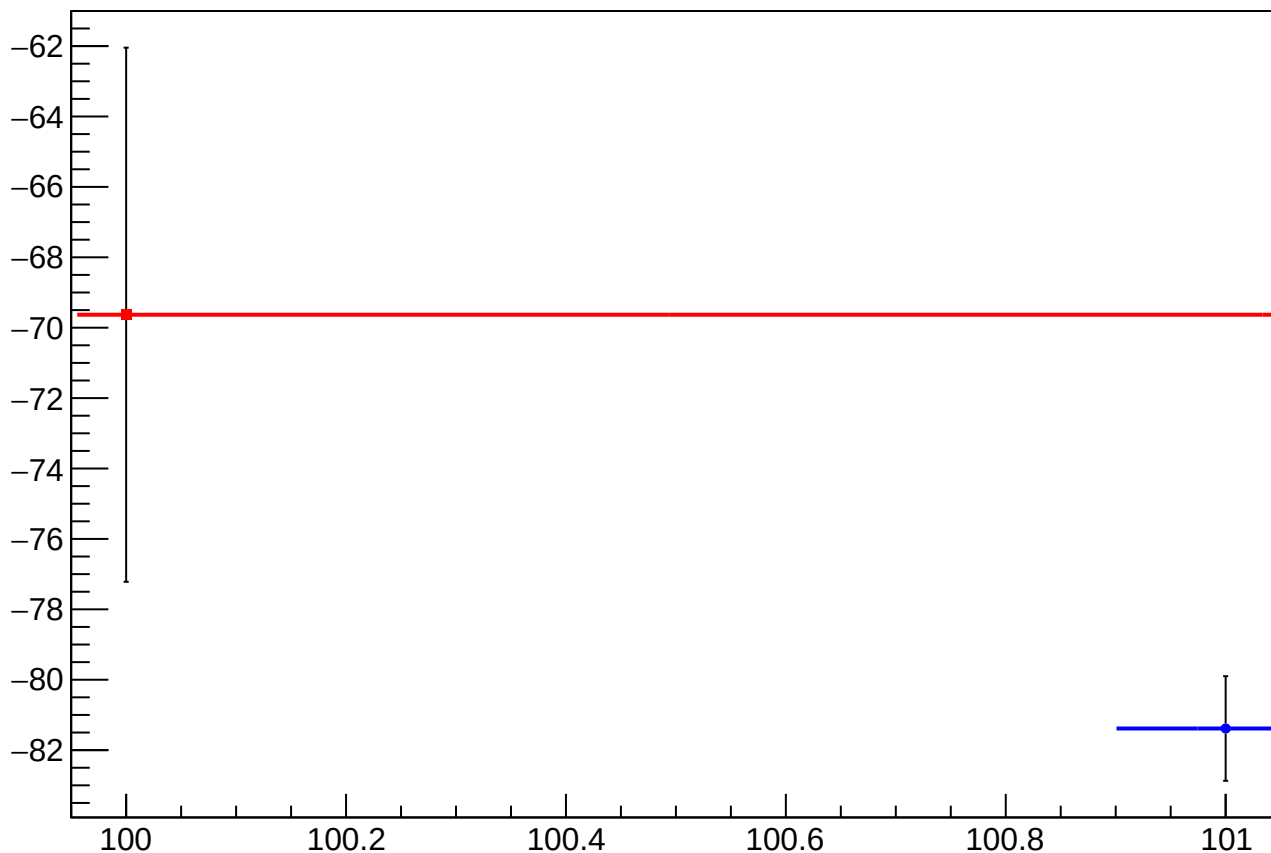
Right: -19.408 $\pm$ 1.530  $\chi^2$ /NDF: 4.7/1

In: -18.871 $\pm$ 1.550  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -19.408 $\pm$ 1.530  $\chi^2$ /NDF: 4.7/1

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -81.385 $\pm$ 1.486  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -69.632 $\pm$ 7.586  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

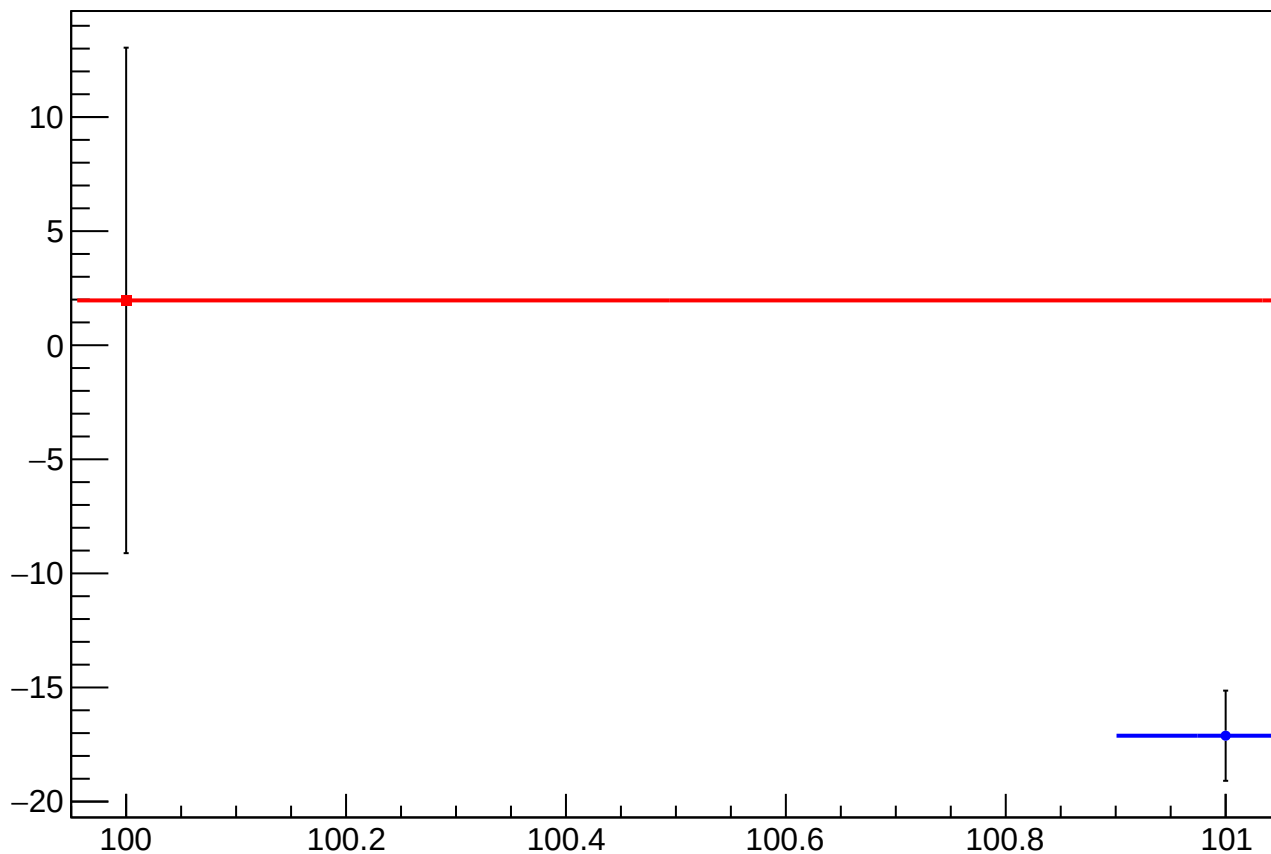
Right: -80.951 $\pm$ 1.458  $\chi^2$ /NDF: 2.3/1

In: -81.385 $\pm$ 1.486  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -80.951 $\pm$ 1.458  $\chi^2$ /NDF: 2.3/1

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -17.114 $\pm$ 1.976  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.964 $\pm$ 11.077  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -16.526 $\pm$ 1.945  $\chi^2$ /NDF: 2.9/1

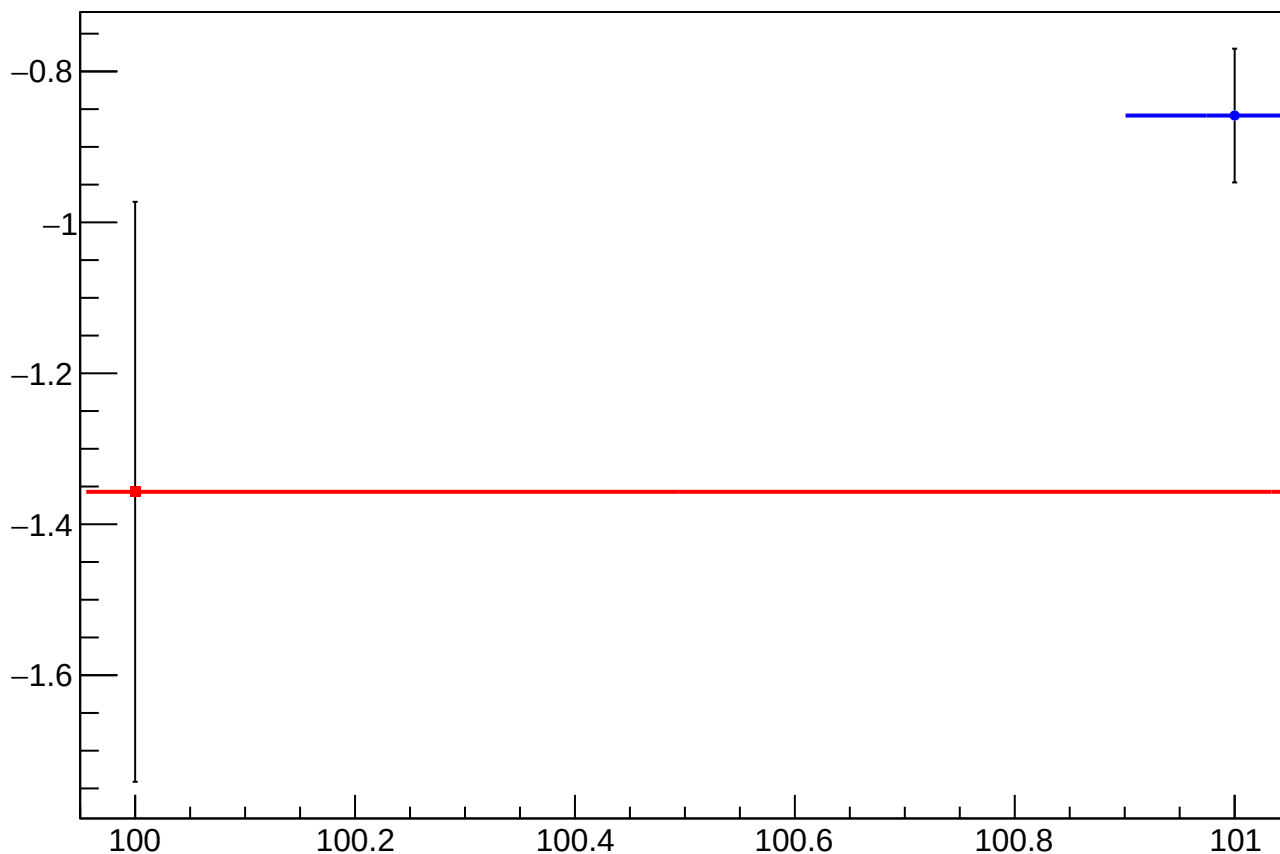
In: -17.114 $\pm$ 1.976  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -16.526 $\pm$ 1.945  $\chi^2$ /NDF: 2.9/1



reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.858+/-0.089  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.357+/-0.384  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

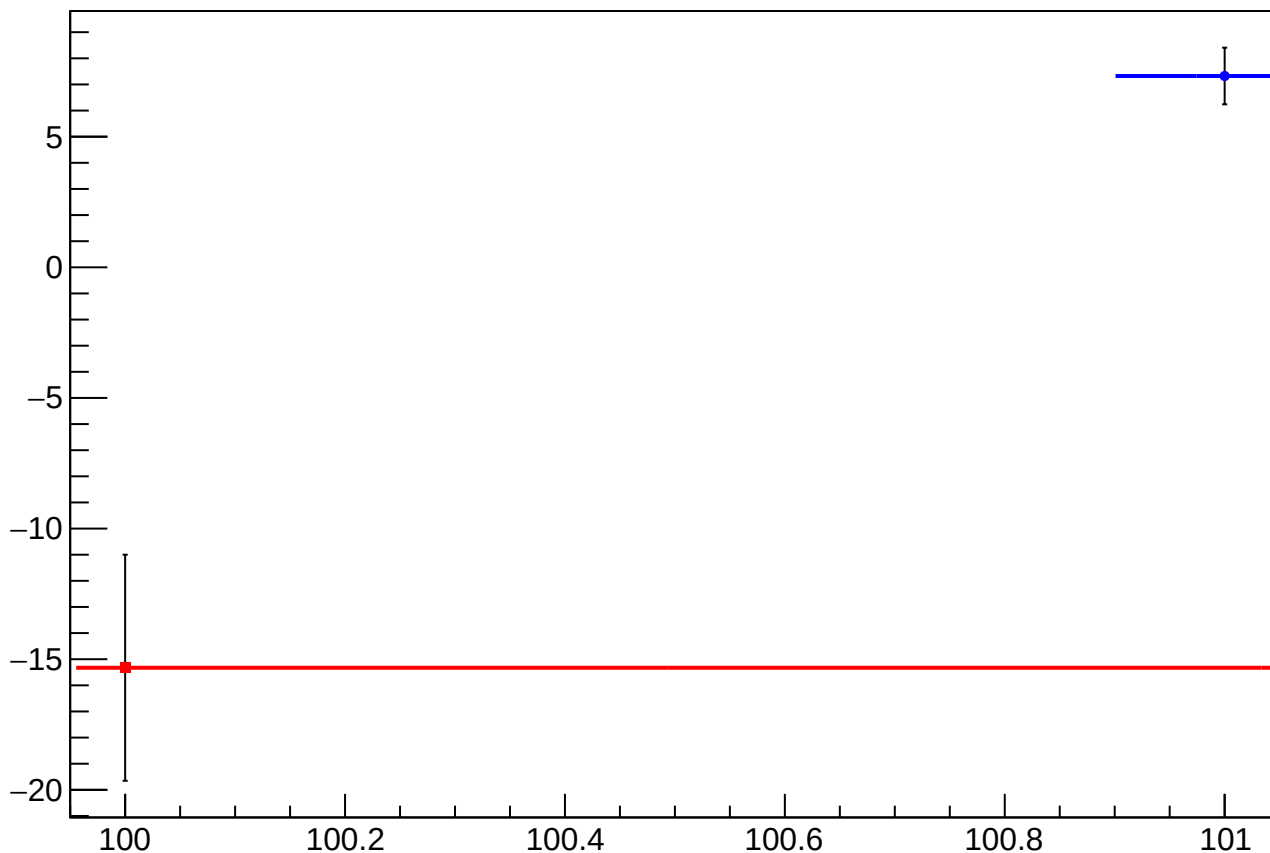
Right: -0.884+/-0.086  $\chi^2/\text{NDF}$ : 1.6/1

In: -0.858+/-0.089  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.884+/-0.086  $\chi^2/\text{NDF}$ : 1.6/1

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 7.323+/-1.084  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.327+/-4.327  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

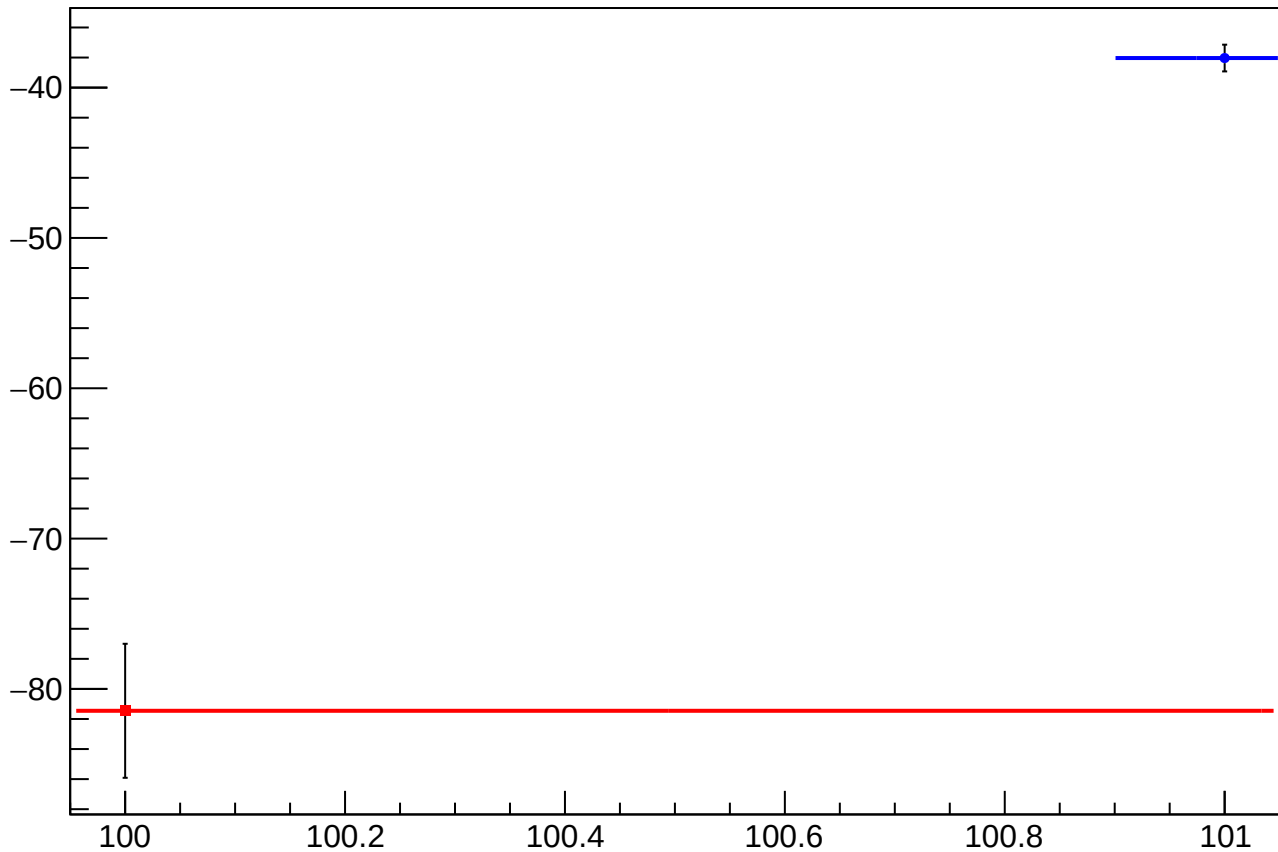
Right: 5.985+/-1.052  $\chi^2/\text{NDF}$ : 25.8/1

In: 7.323+/-1.084  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.985+/-1.052  $\chi^2/\text{NDF}$ : 25.8/1

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -38.033+/-0.889  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -81.455+/-4.457  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

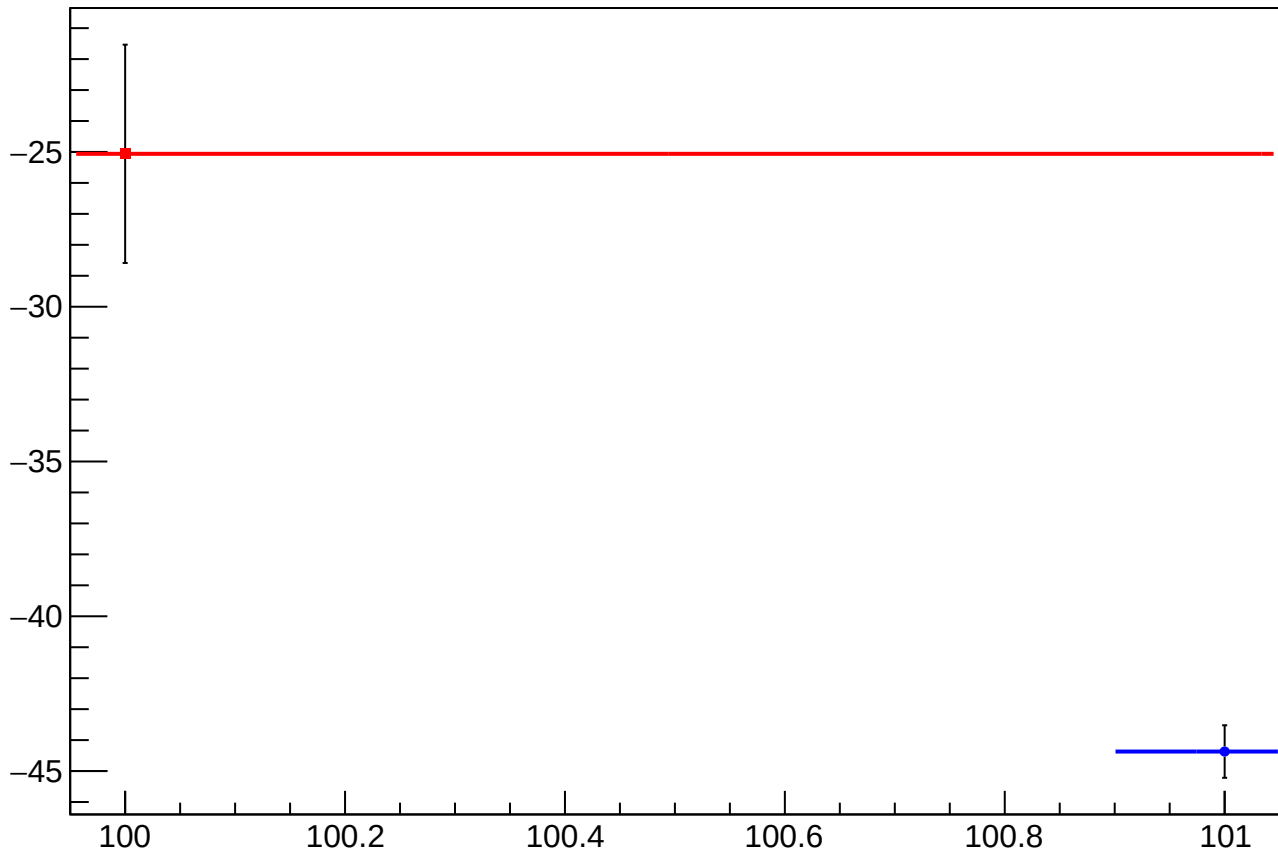
Right: -39.695+/-0.872  $\chi^2/\text{NDF}$ : 91.3/1

In: -38.033+/-0.889  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -39.695+/-0.872  $\chi^2/\text{NDF}$ : 91.3/1

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -44.370 $\pm$ 0.848  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -25.060 $\pm$ 3.526  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

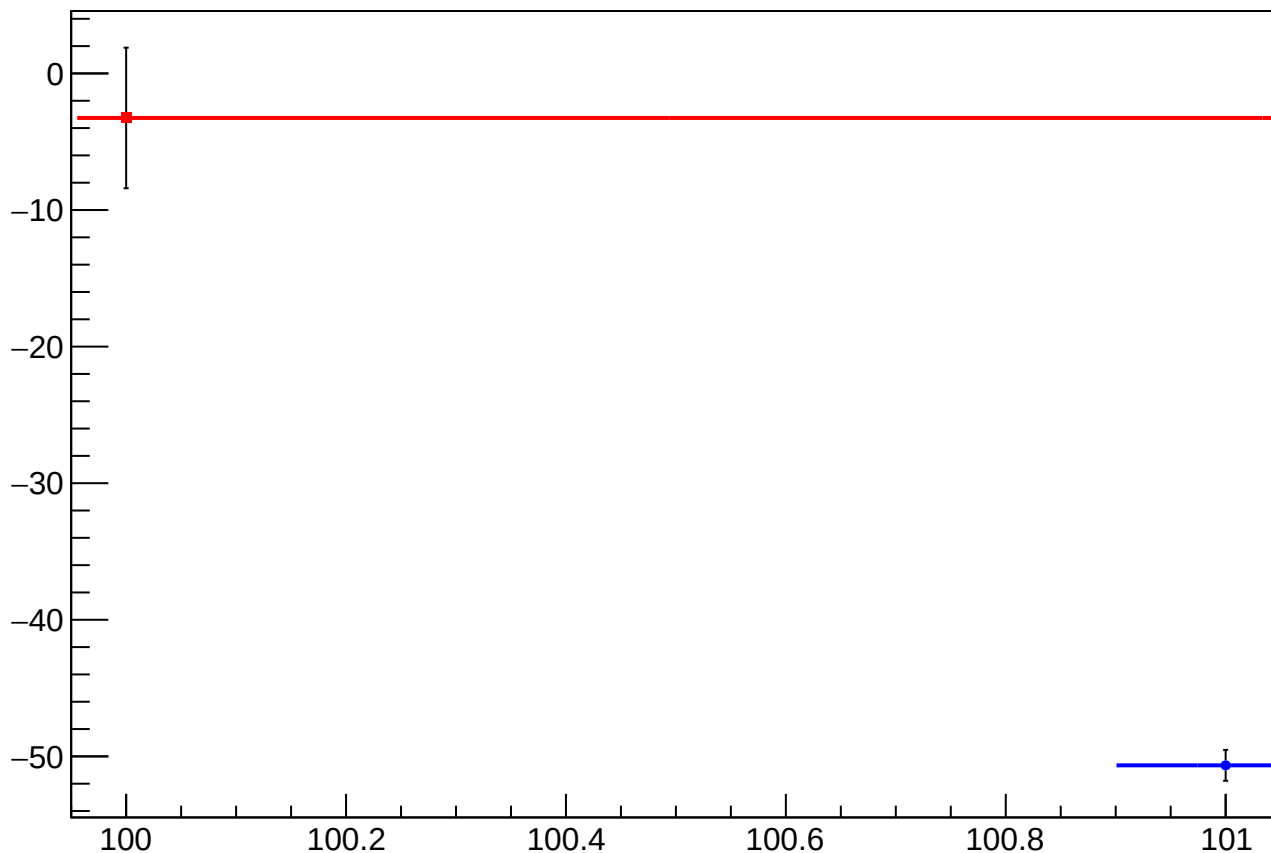
Right: -43.313 $\pm$ 0.825  $\chi^2$ /NDF: 28.3/1

In: -44.370 $\pm$ 0.848  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -43.313 $\pm$ 0.825  $\chi^2$ /NDF: 28.3/1

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -50.657 $\pm$ 1.131  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.258 $\pm$ 5.145  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

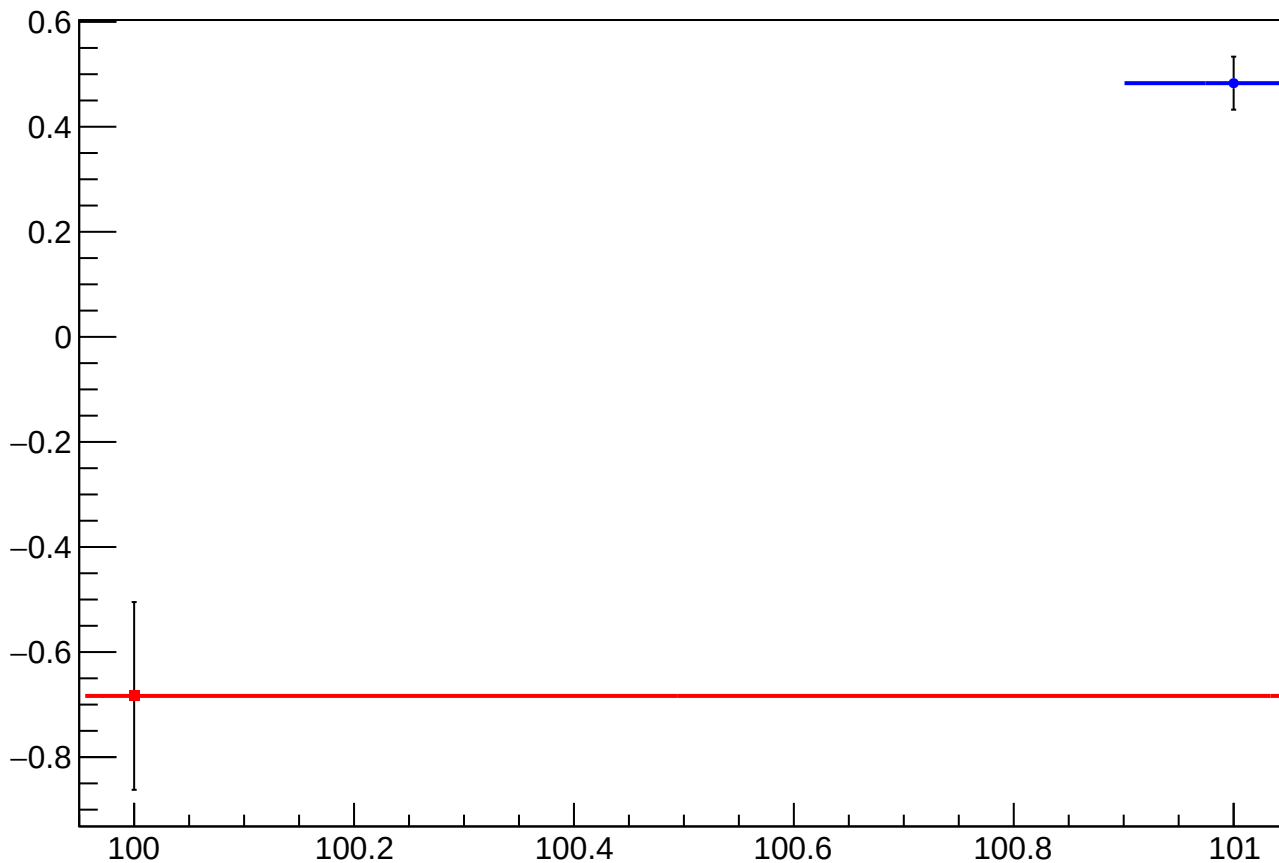
Right: -48.471 $\pm$ 1.105  $\chi^2$ /NDF: 81.0/1

In: -50.657 $\pm$ 1.131  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -48.471 $\pm$ 1.105  $\chi^2$ /NDF: 81.0/1

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.483 $\pm$ 0.050  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.684 $\pm$ 0.179  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

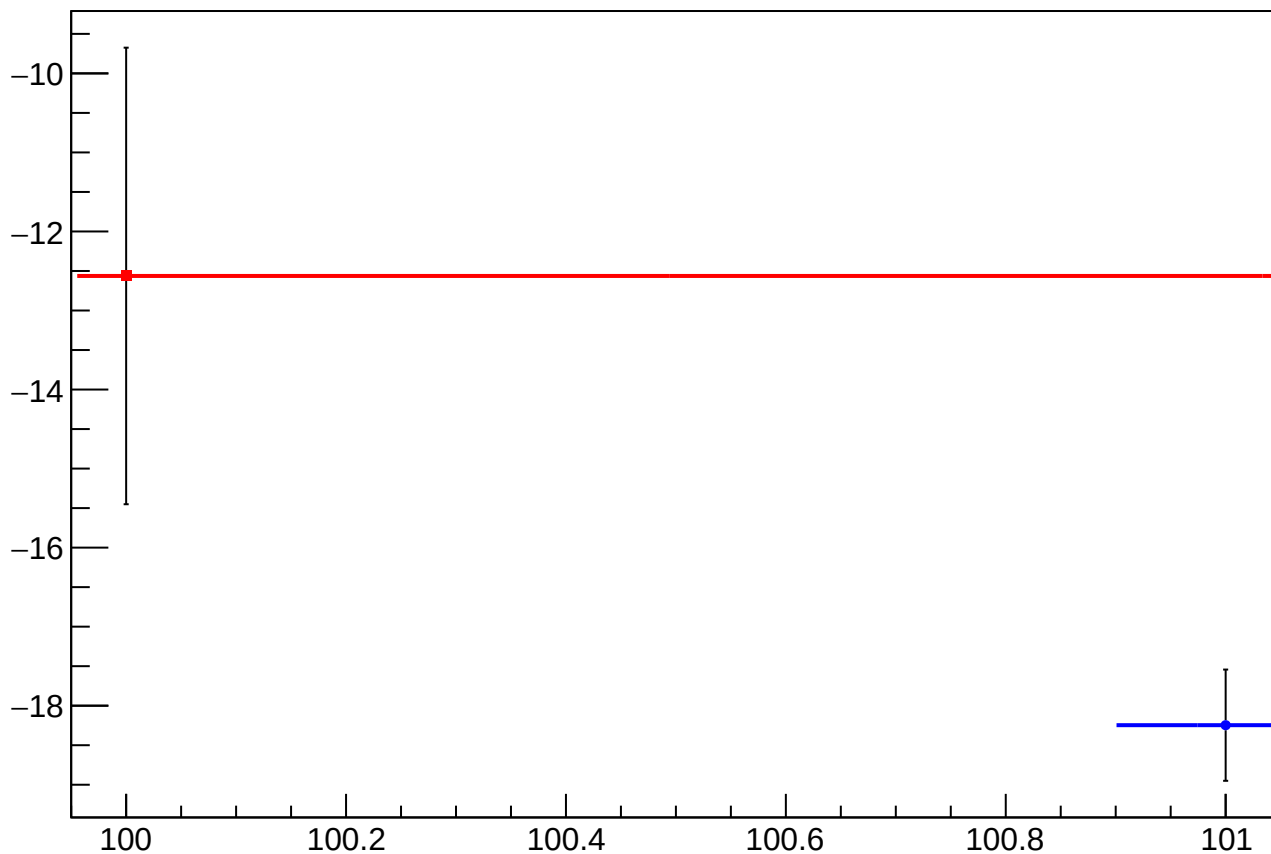
Right: 0.397 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 39.5/1

In: 0.483 $\pm$ 0.050  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.397 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 39.5/1

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -18.247 $\pm$ 0.704  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -12.563 $\pm$ 2.888  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

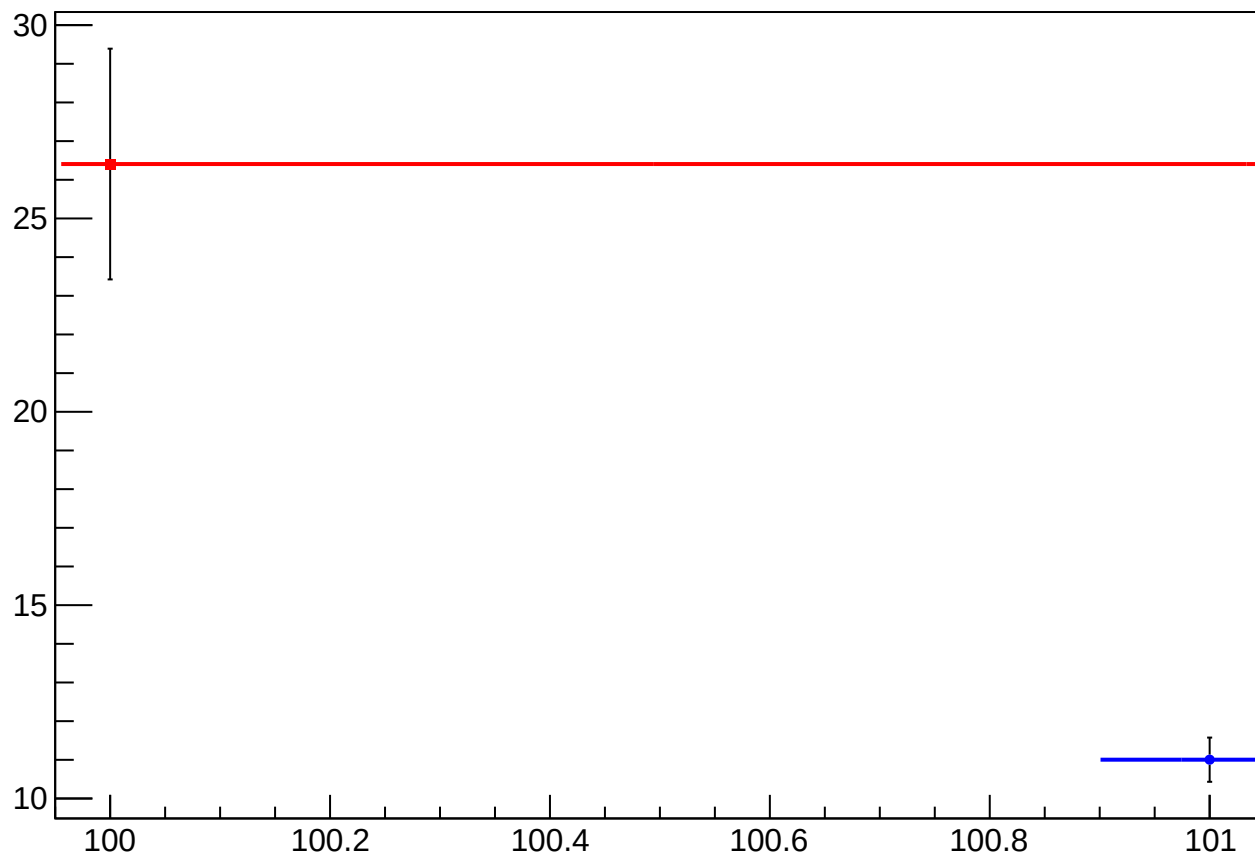
Right: -17.928 $\pm$ 0.684  $\chi^2$ /NDF: 3.7/1

In: -18.247 $\pm$ 0.704  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.928 $\pm$ 0.684  $\chi^2$ /NDF: 3.7/1

reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 11.004 $\pm$ 0.572  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.407 $\pm$ 2.984  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 11.549 $\pm$ 0.562  $\chi^2$ /NDF: 25.7/1

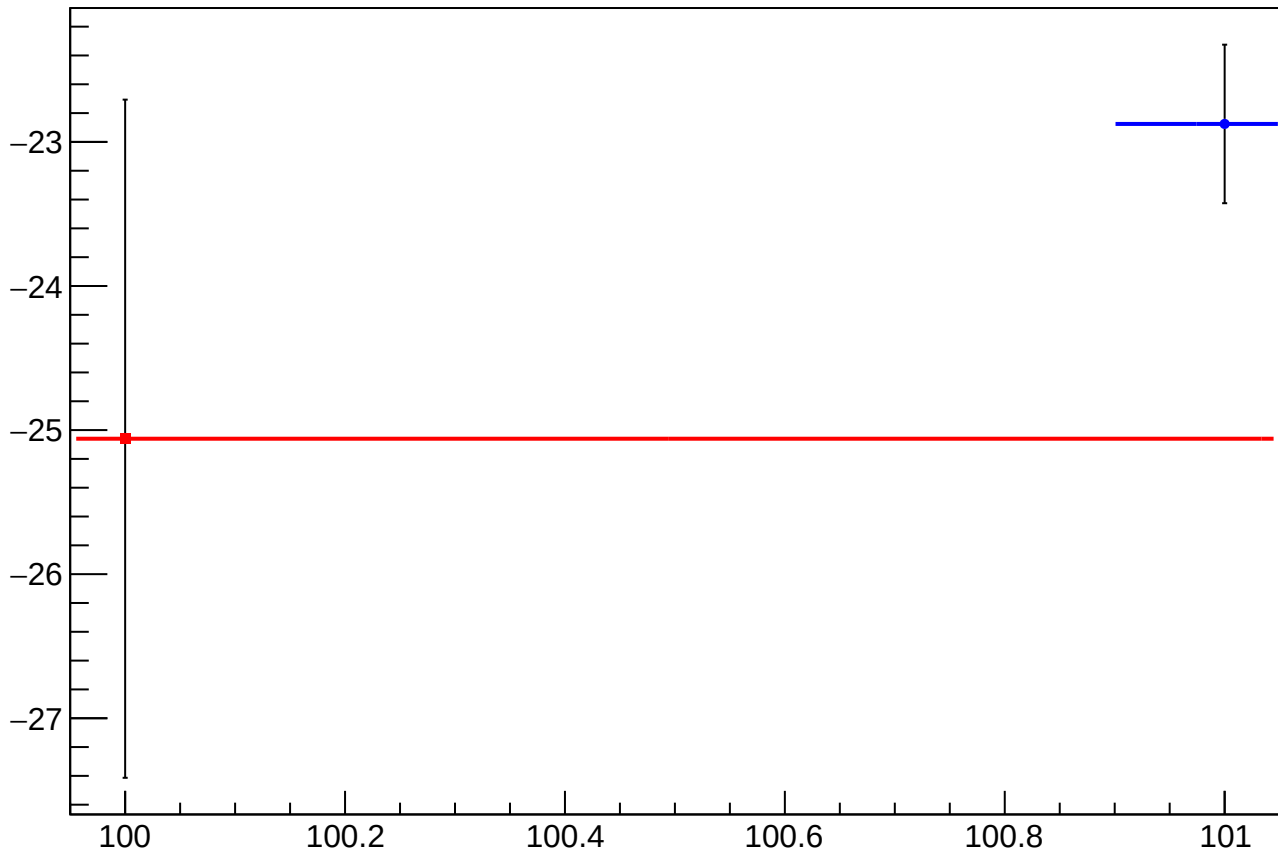
In: 11.004 $\pm$ 0.572  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.549 $\pm$ 0.562  $\chi^2$ /NDF: 25.7/1



reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-22.875 \pm 0.550$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-25.060 \pm 2.353$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

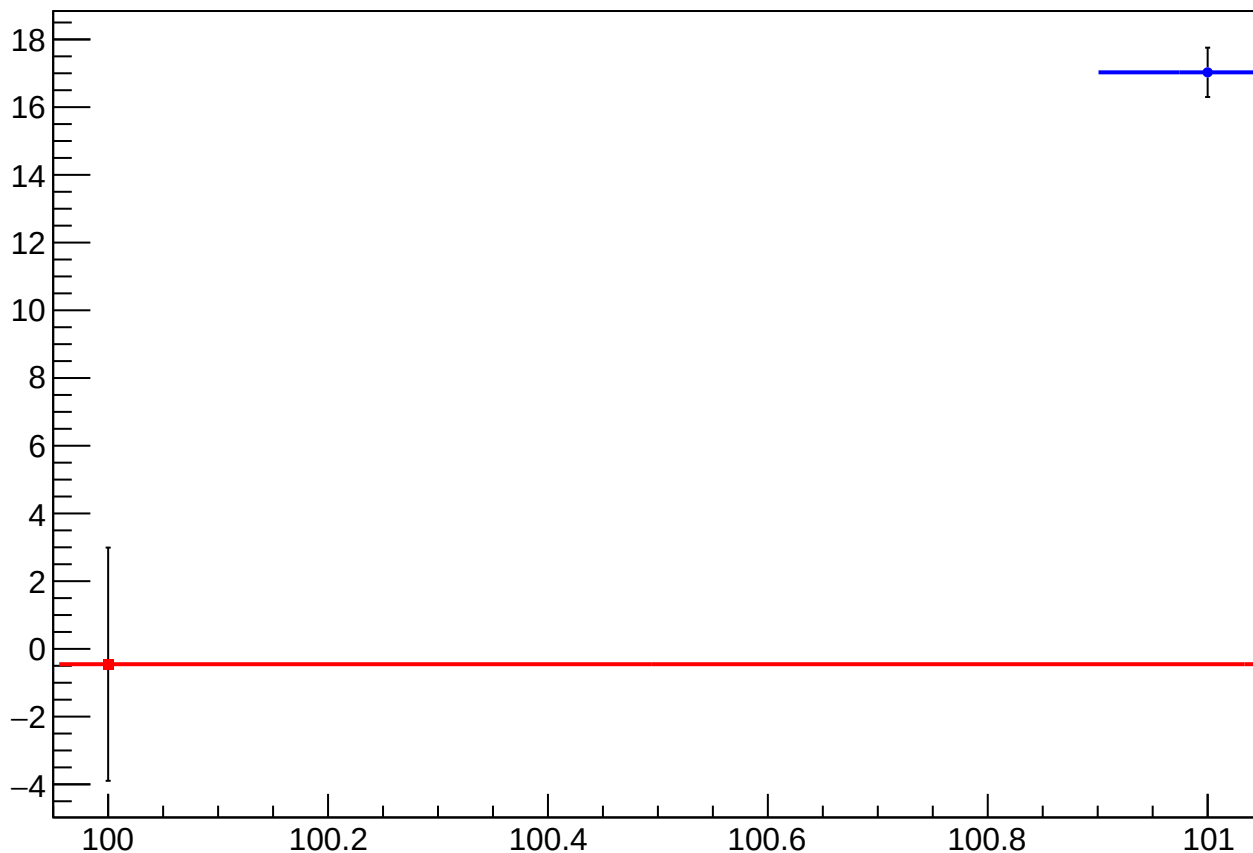
Right:  $-22.988 \pm 0.536$   $\chi^2/\text{NDF}: 0.8/1$

In:  $-22.875 \pm 0.550$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-22.988 \pm 0.536$   $\chi^2/\text{NDF}: 0.8/1$

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 17.028+/-0.729  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.452+/-3.444  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

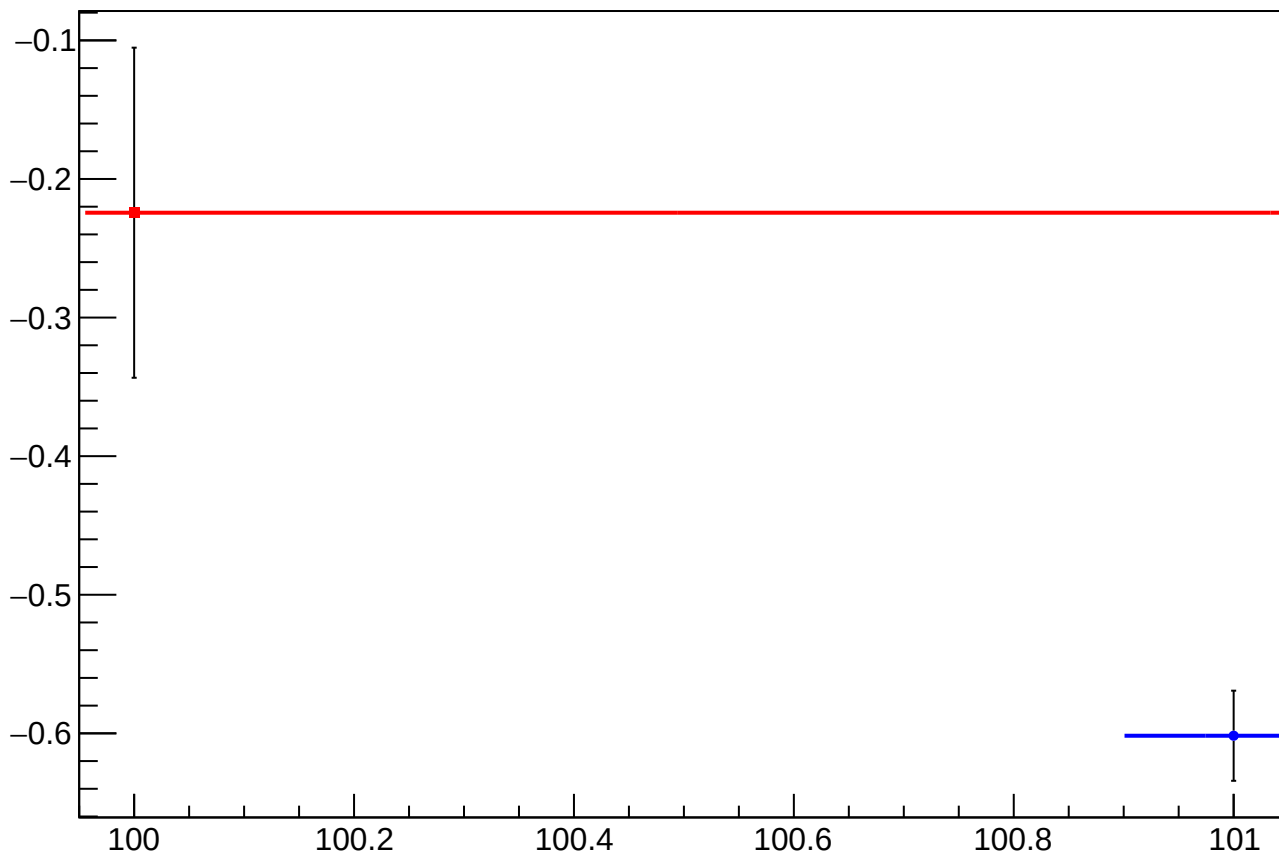
Right: 16.279+/-0.713  $\chi^2$ /NDF: 24.7/1

In: 17.028+/-0.729  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 16.279+/-0.713  $\chi^2$ /NDF: 24.7/1

reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.602 $\pm$ 0.033  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.224 $\pm$ 0.119  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

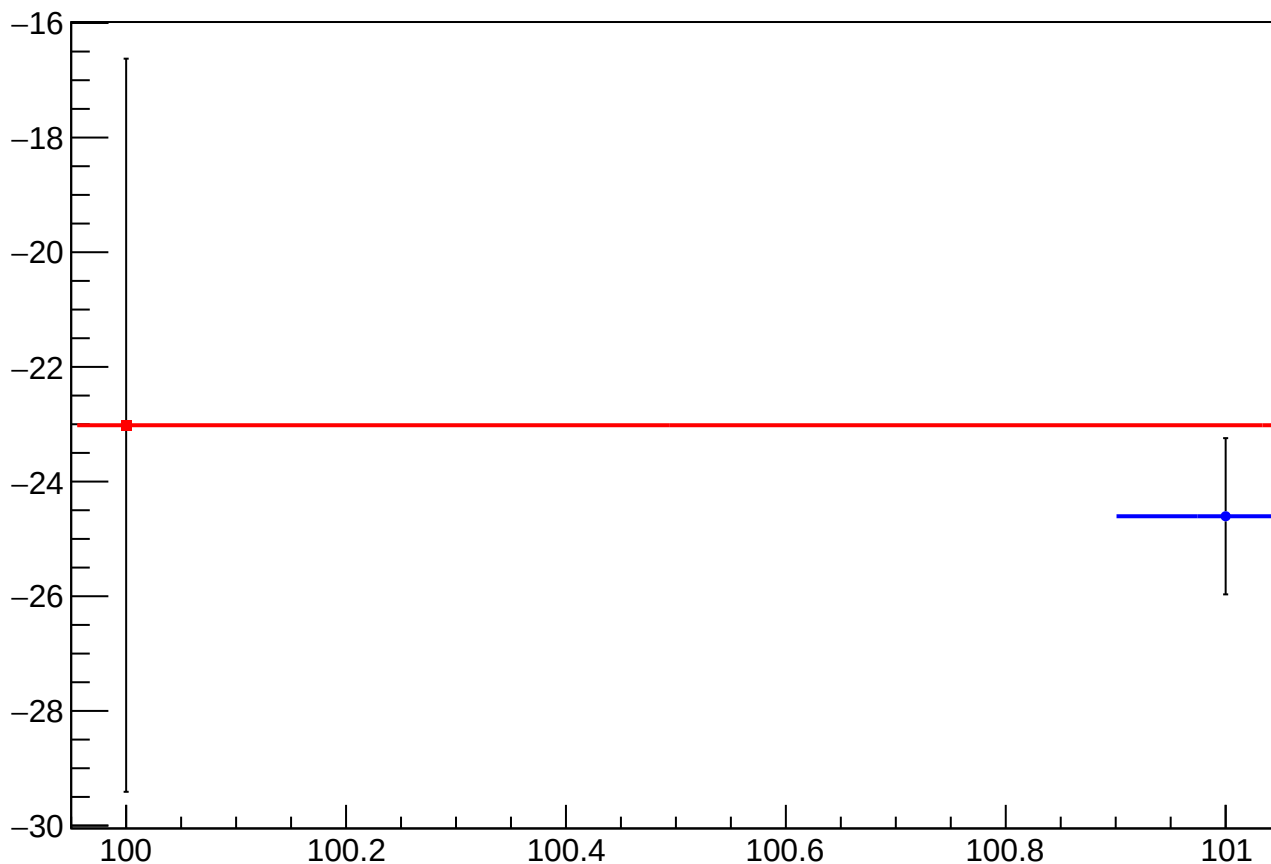
Right: -0.576 $\pm$ 0.031  $\chi^2$ /NDF: 9.3/1

In: -0.602 $\pm$ 0.033  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.576 $\pm$ 0.031  $\chi^2$ /NDF: 9.3/1

reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -24.605 $\pm$ 1.362  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -23.017 $\pm$ 6.393  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

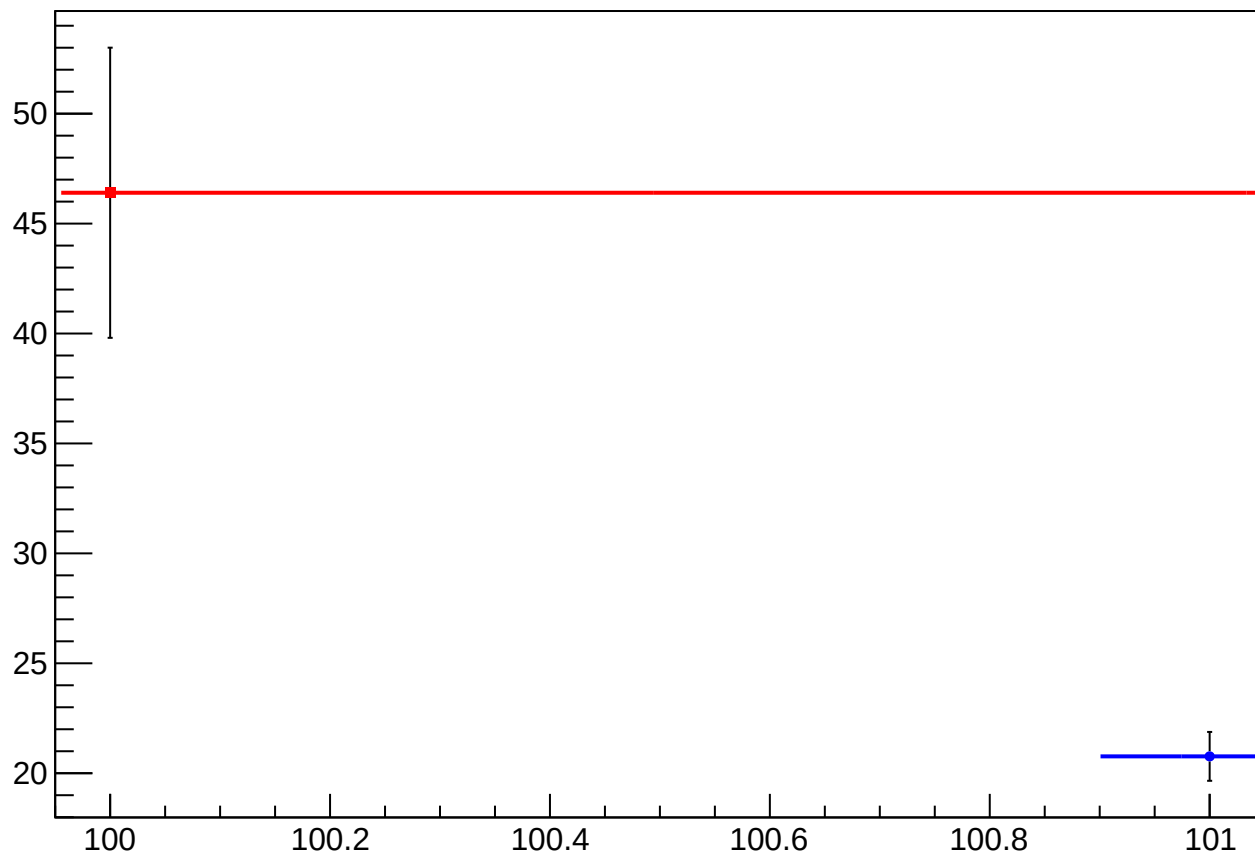
Right: -24.536 $\pm$ 1.333  $\chi^2$ /NDF: 0.1/1

In: -24.605 $\pm$ 1.362  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -24.536 $\pm$ 1.333  $\chi^2$ /NDF: 0.1/1

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 20.766+/-1.111  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 46.403+/-6.599  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

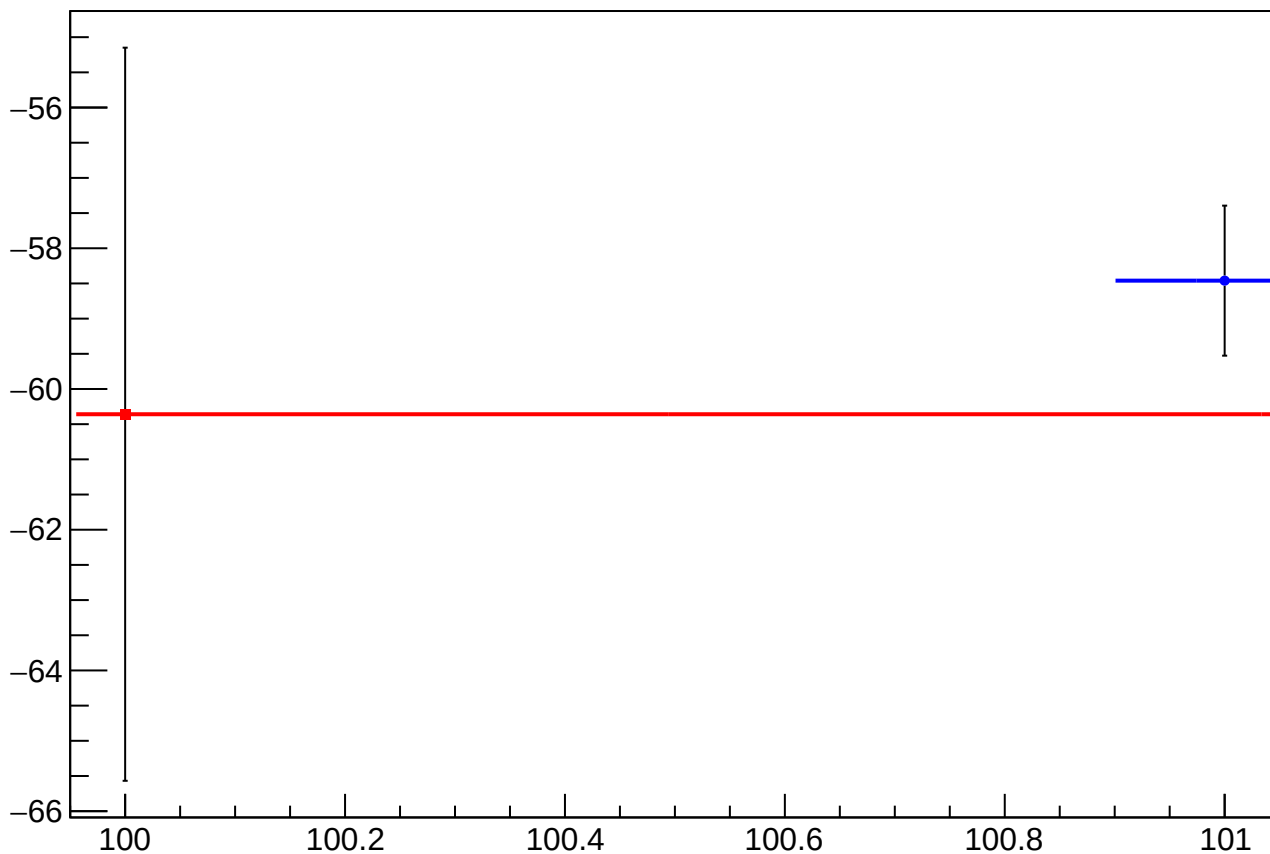
Right: 21.473+/-1.096  $\chi^2/\text{NDF}$ : 14.7/1

In: 20.766+/-1.111  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.473+/-1.096  $\chi^2/\text{NDF}$ : 14.7/1

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -58.460 $\pm$ 1.066  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -60.359 $\pm$ 5.210  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

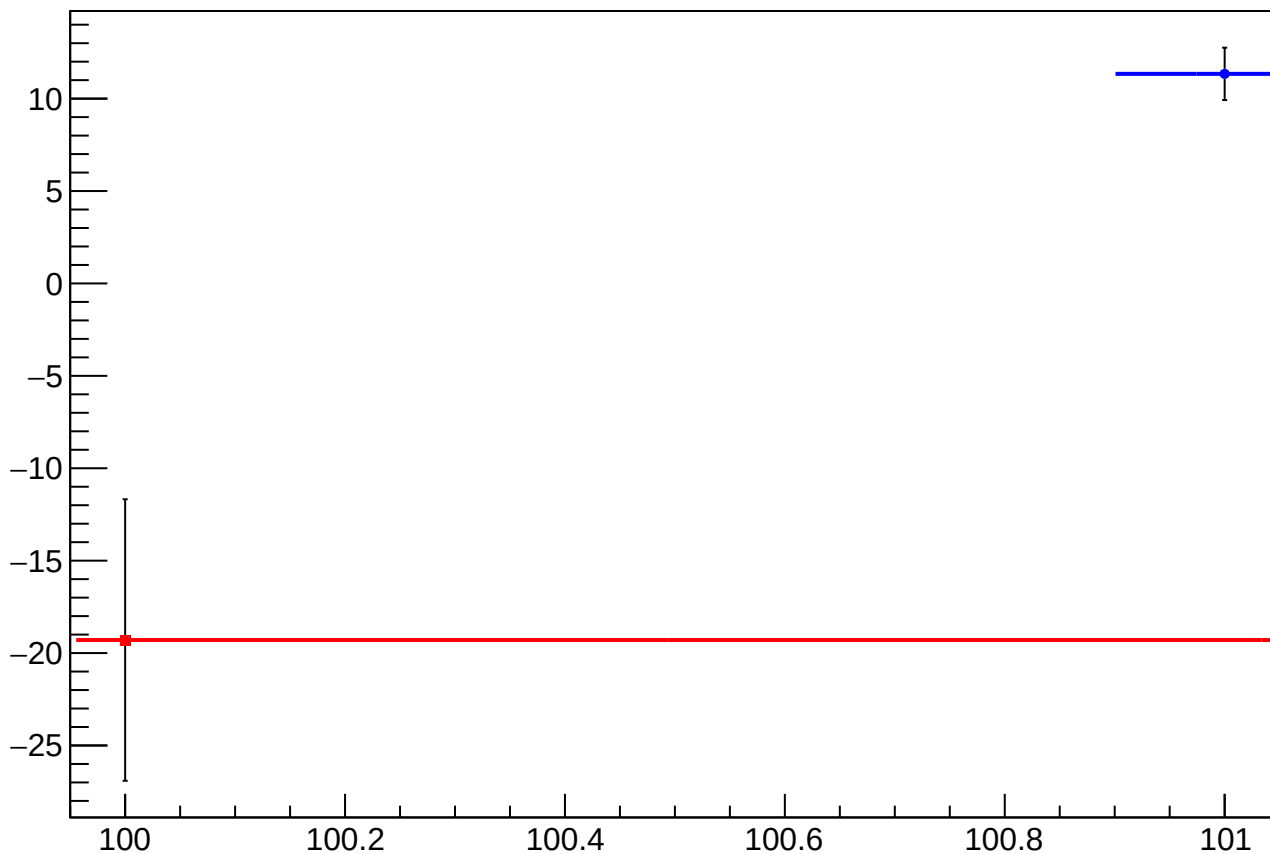
Right: -58.537 $\pm$ 1.044  $\chi^2$ /NDF: 0.1/1

In: -58.460 $\pm$ 1.066  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -58.537 $\pm$ 1.044  $\chi^2$ /NDF: 0.1/1

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.340+/-1.417  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -19.294+/-7.617  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

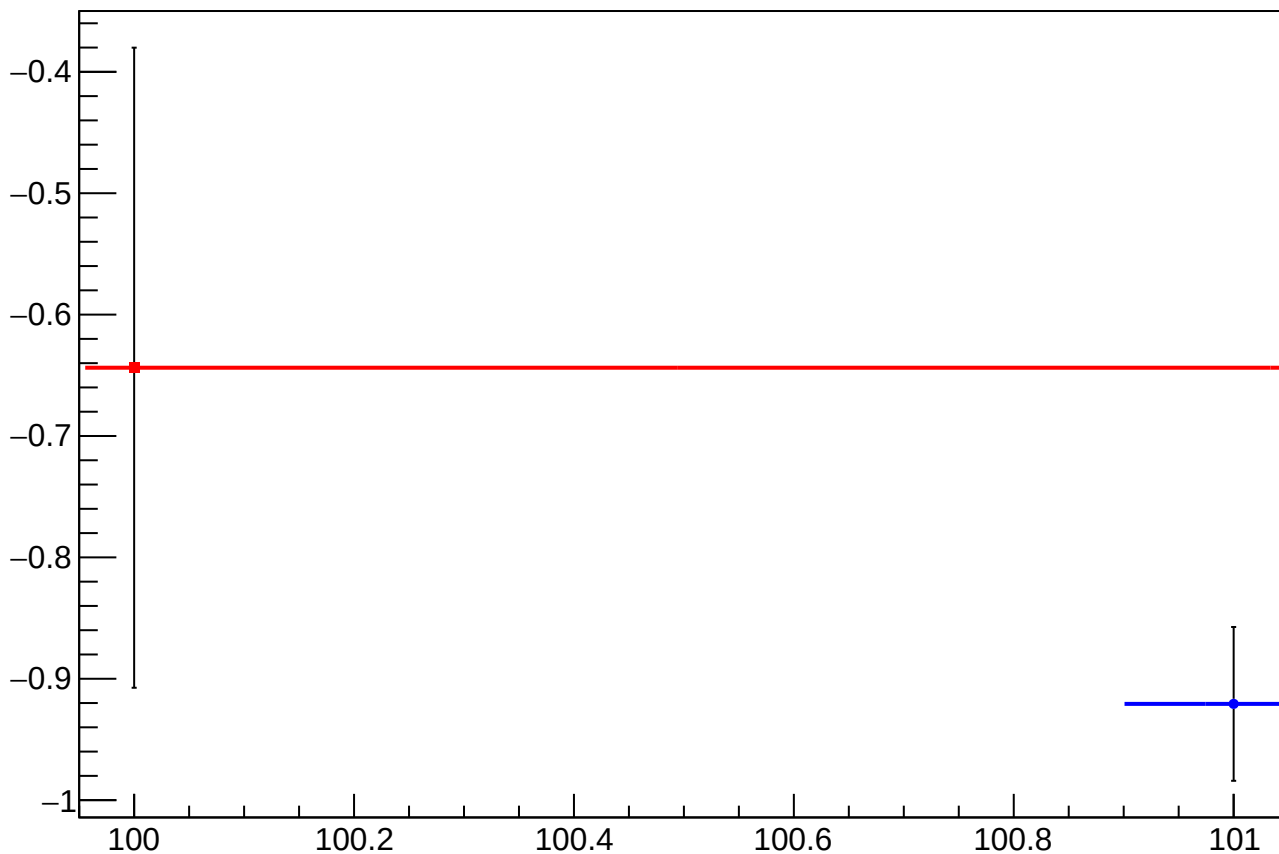
Right: 10.315+/-1.393  $\chi^2/\text{NDF}$ : 15.6/1

In: 11.340+/-1.417  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.315+/-1.393  $\chi^2/\text{NDF}$ : 15.6/1

reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.921+/-0.063  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.644+/-0.264  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -0.906+/-0.062  $\chi^2/\text{NDF}$ : 1.0/1

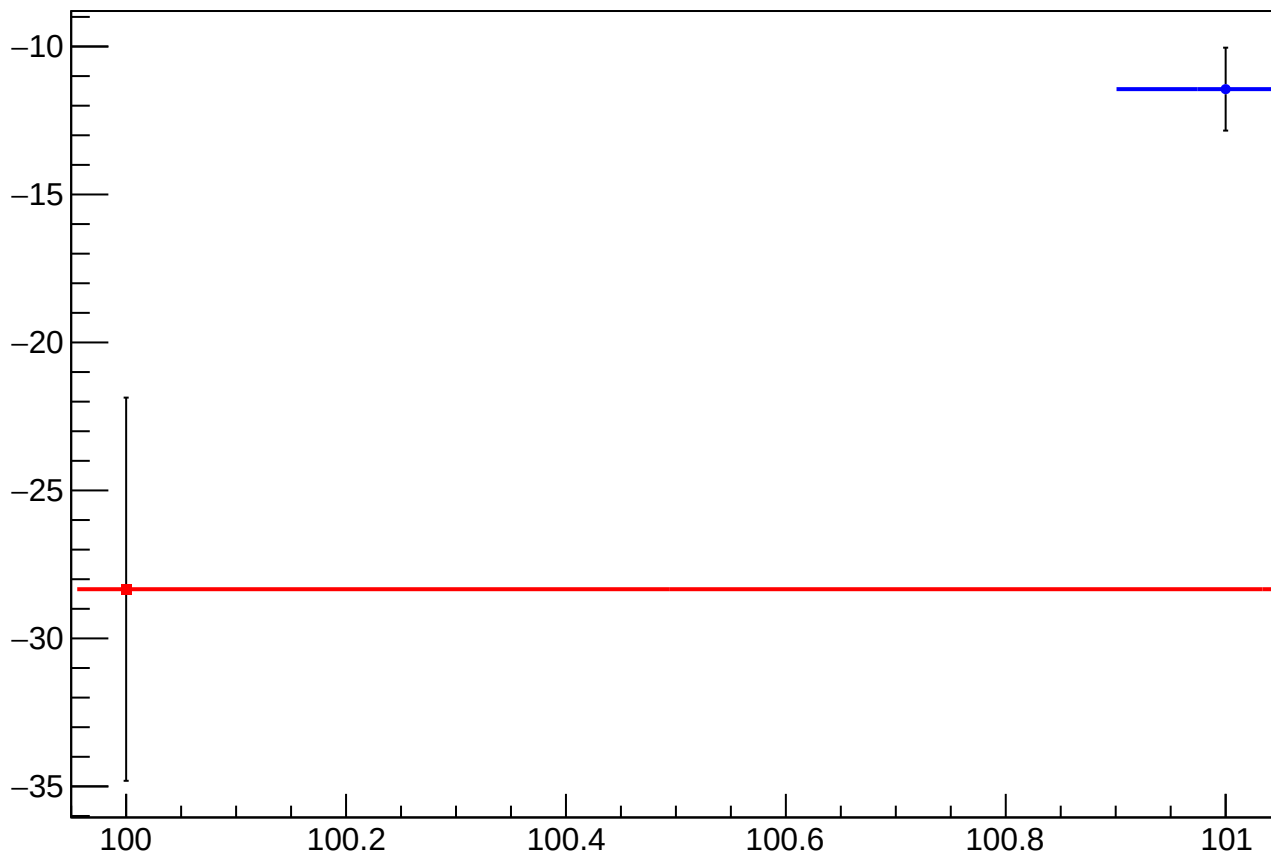
In: -0.921+/-0.063  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.906+/-0.062  $\chi^2/\text{NDF}$ : 1.0/1



reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -11.440 $\pm$ 1.401  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -28.337 $\pm$ 6.474  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

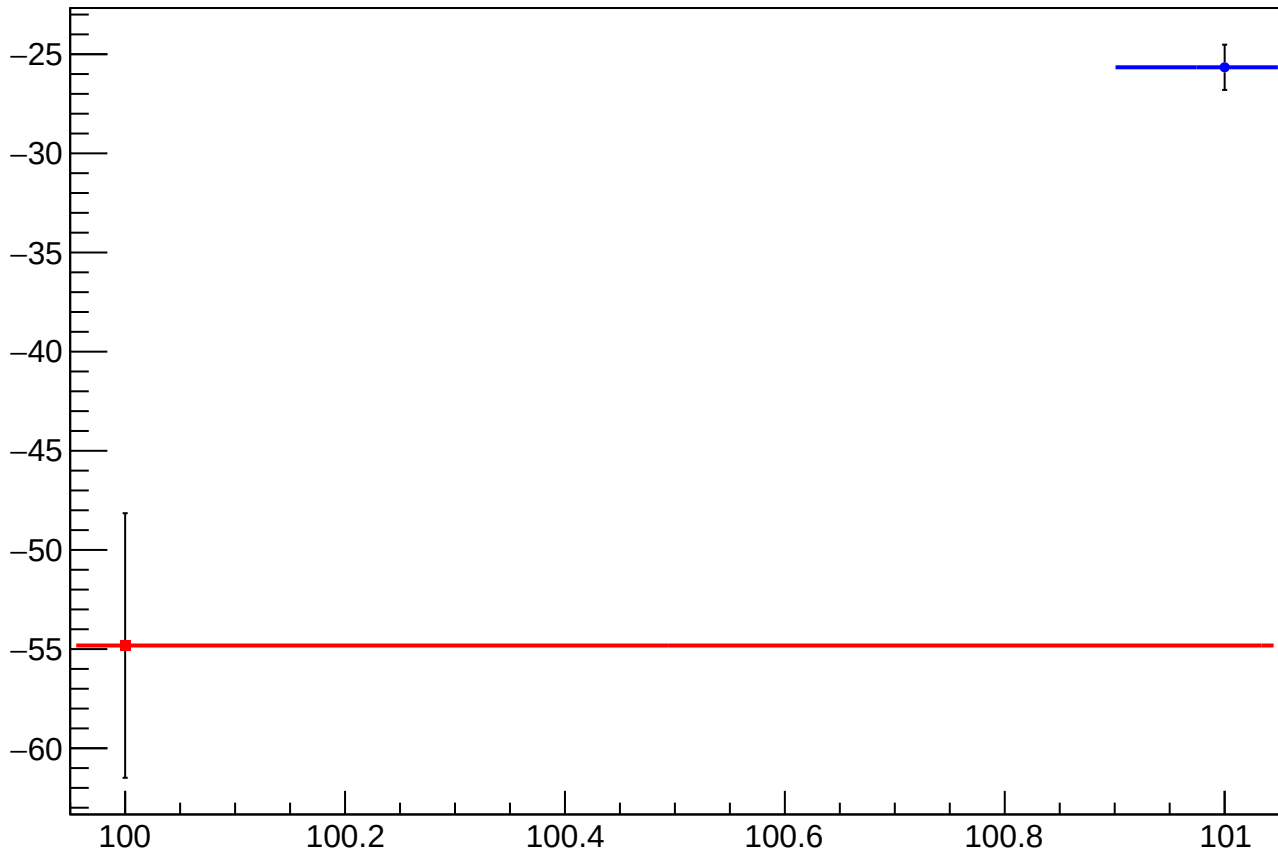
Right: -12.196 $\pm$ 1.369  $\chi^2$ /NDF: 6.5/1

In: -11.440 $\pm$ 1.401  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -12.196 $\pm$ 1.369  $\chi^2$ /NDF: 6.5/1

reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -25.660 $\pm$ 1.141  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -54.819 $\pm$ 6.672  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

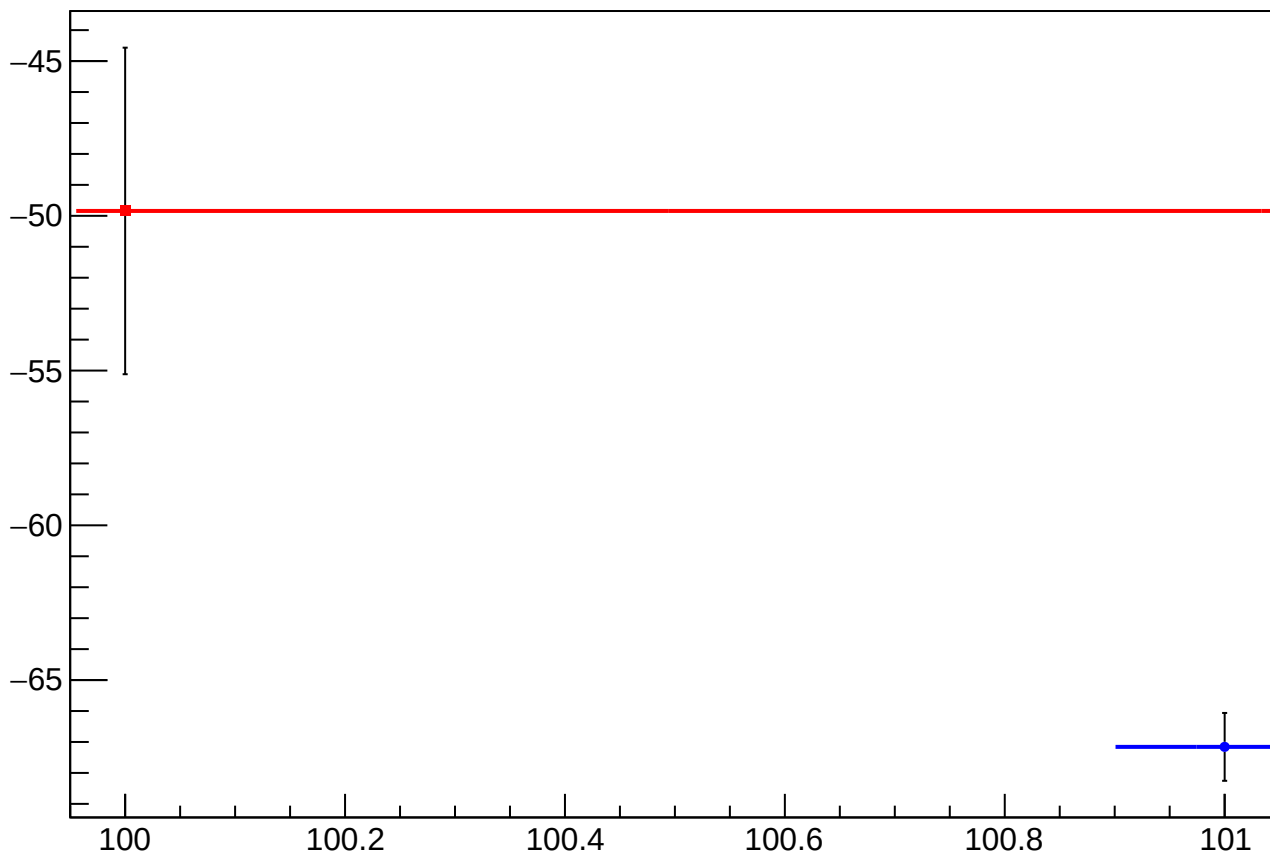
Right: -26.488 $\pm$ 1.125  $\chi^2$ /NDF: 18.6/1

In: -25.660 $\pm$ 1.141  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -26.488 $\pm$ 1.125  $\chi^2$ /NDF: 18.6/1

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -67.159 $\pm$ 1.096  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -49.842 $\pm$ 5.275  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

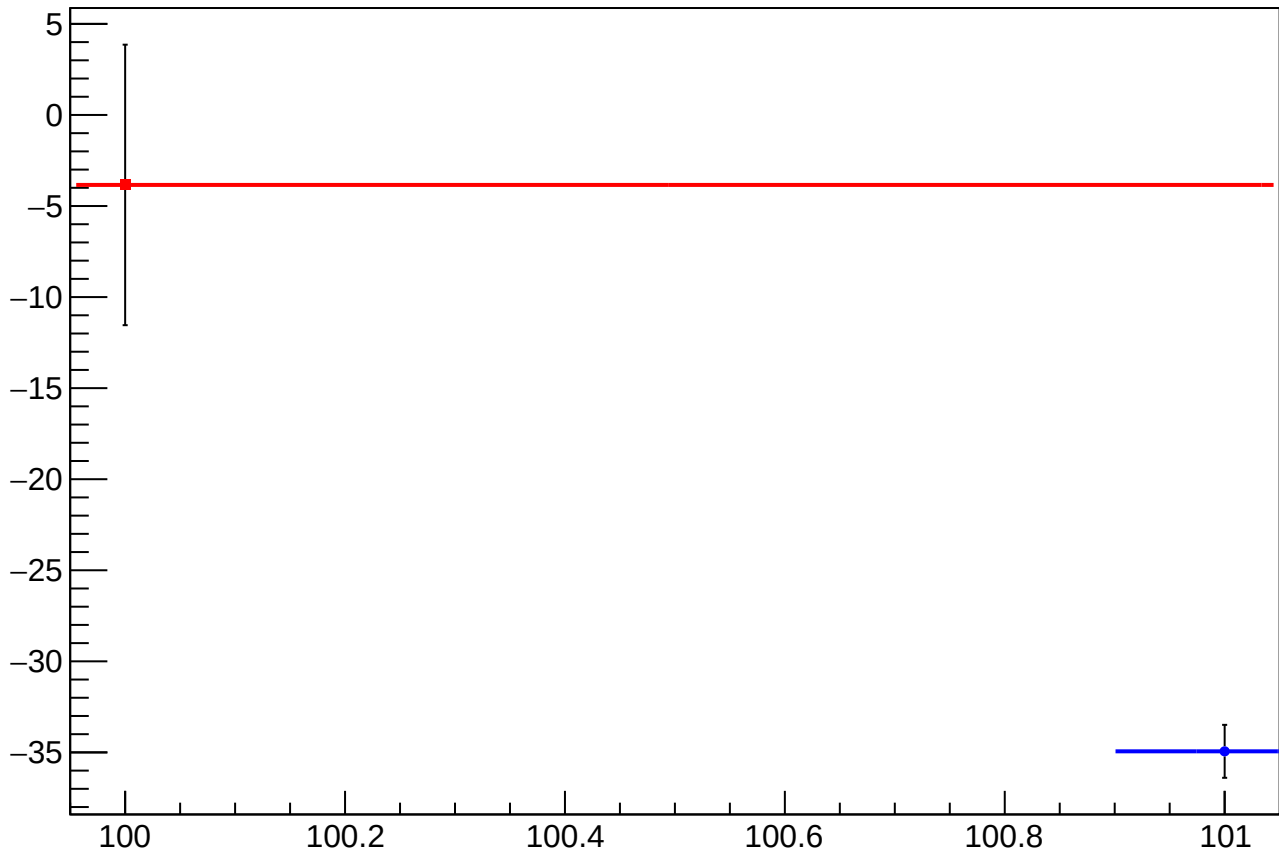
Right: -66.442 $\pm$ 1.073  $\chi^2$ /NDF: 10.3/1

In: -67.159 $\pm$ 1.096  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -66.442 $\pm$ 1.073  $\chi^2$ /NDF: 10.3/1

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -34.941 $\pm$ 1.454  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3.842 $\pm$ 7.701  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

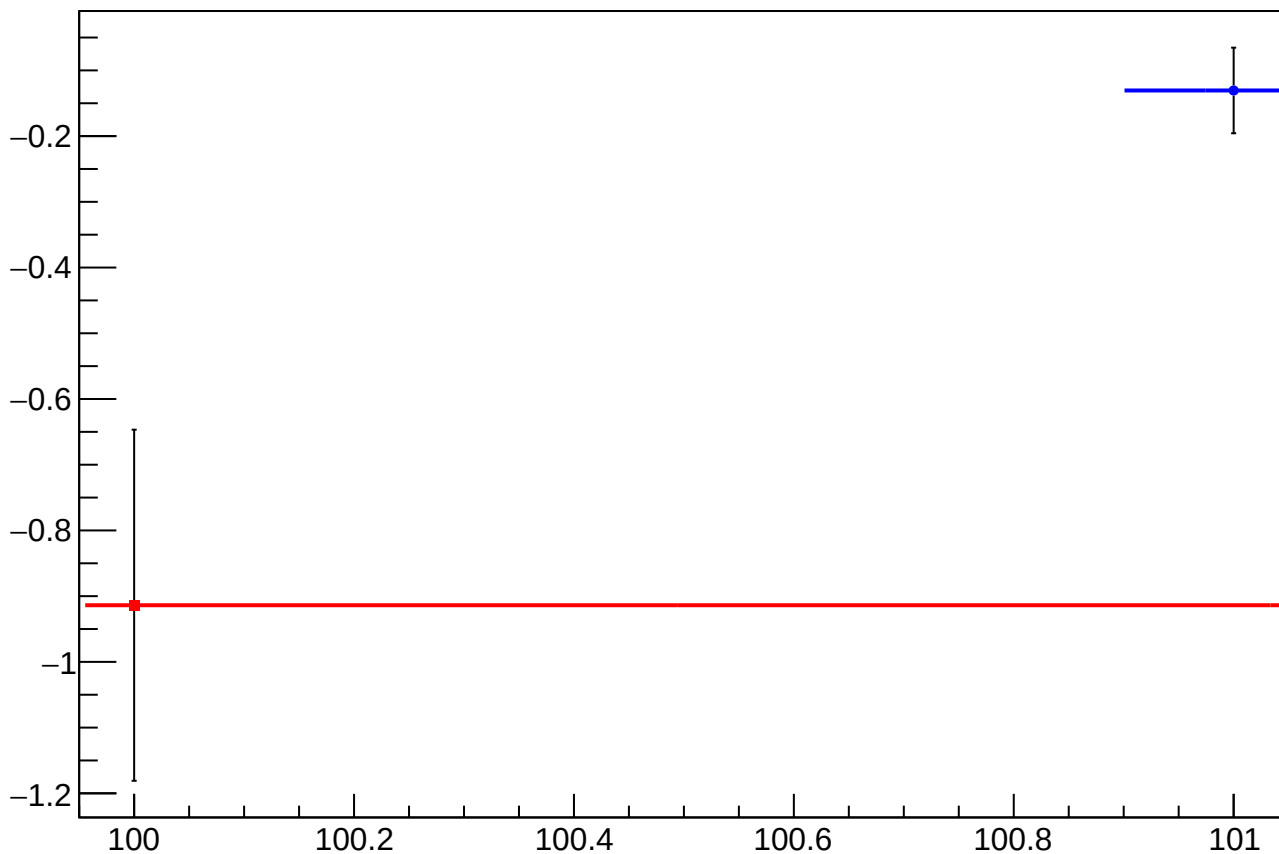
Right: -33.871 $\pm$ 1.428  $\chi^2$ /NDF: 15.7/1

In: -34.941 $\pm$ 1.454  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -33.871 $\pm$ 1.428  $\chi^2$ /NDF: 15.7/1

reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.131+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.914+/-0.267  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

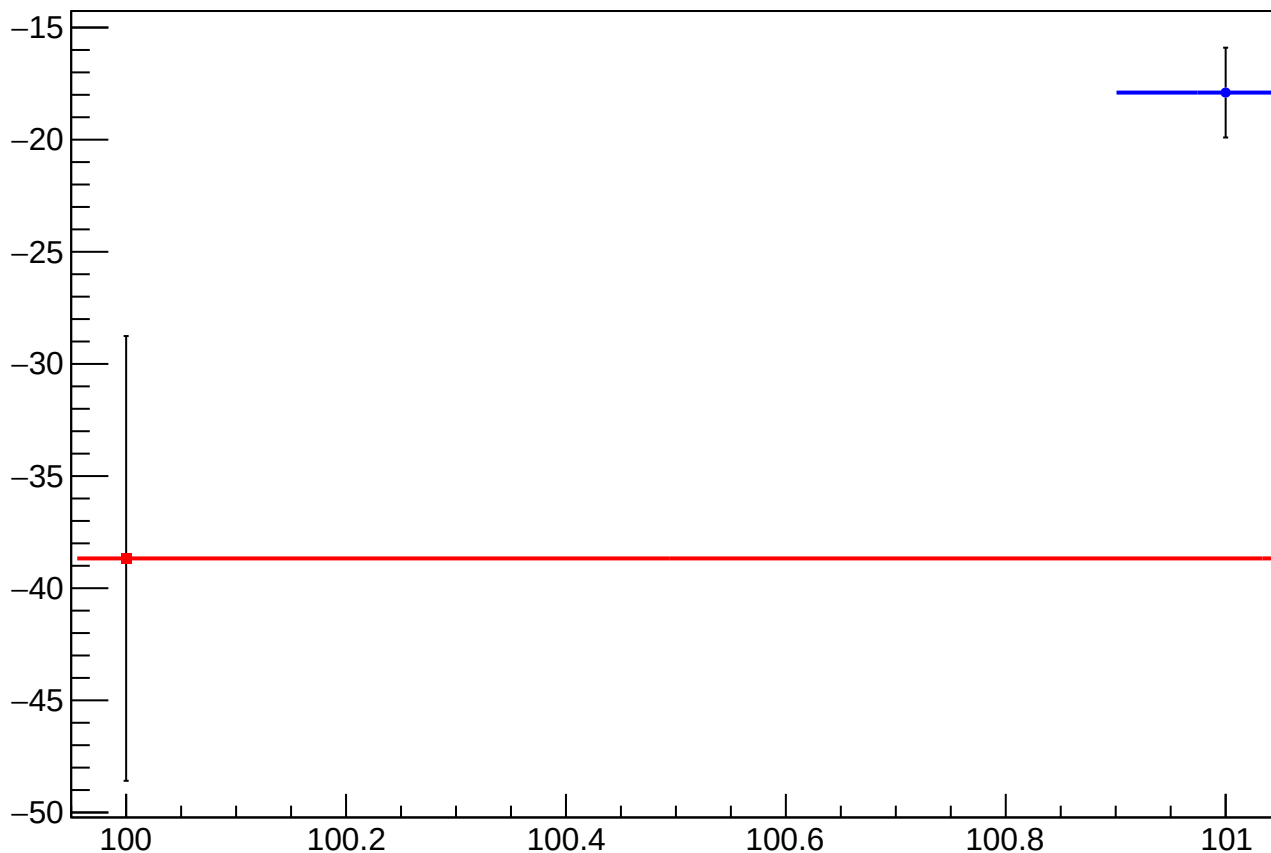
Right: -0.175+/-0.063  $\chi^2/\text{NDF}$ : 8.1/1

In: -0.131+/-0.065  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.175+/-0.063  $\chi^2/\text{NDF}$ : 8.1/1

reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -17.900 $\pm$ 2.003  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -38.672 $\pm$ 9.916  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

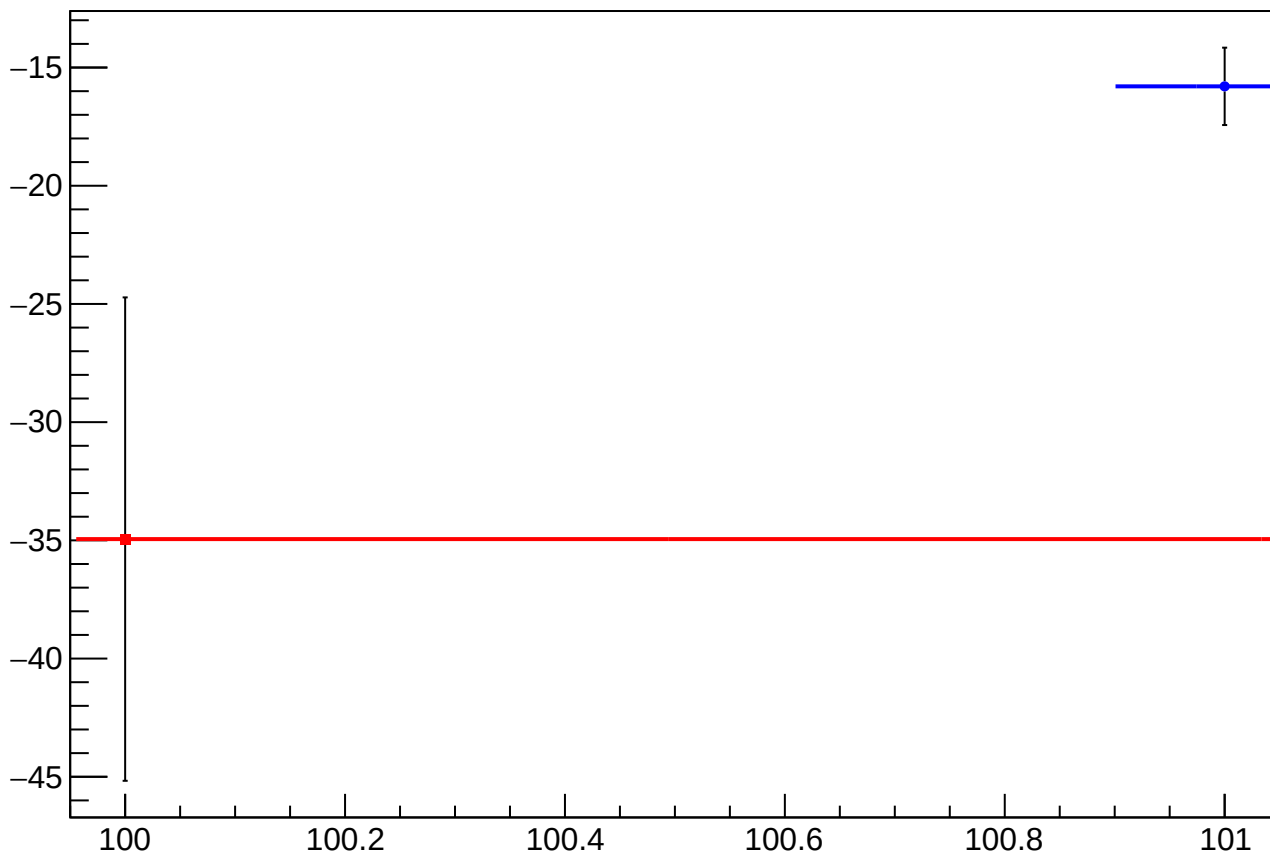
Right: -18.714 $\pm$ 1.963  $\chi^2$ /NDF: 4.2/1

In: -17.900 $\pm$ 2.003  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.714 $\pm$ 1.963  $\chi^2$ /NDF: 4.2/1

reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -15.796 $\pm$ 1.636  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -34.947 $\pm$ 10.224  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

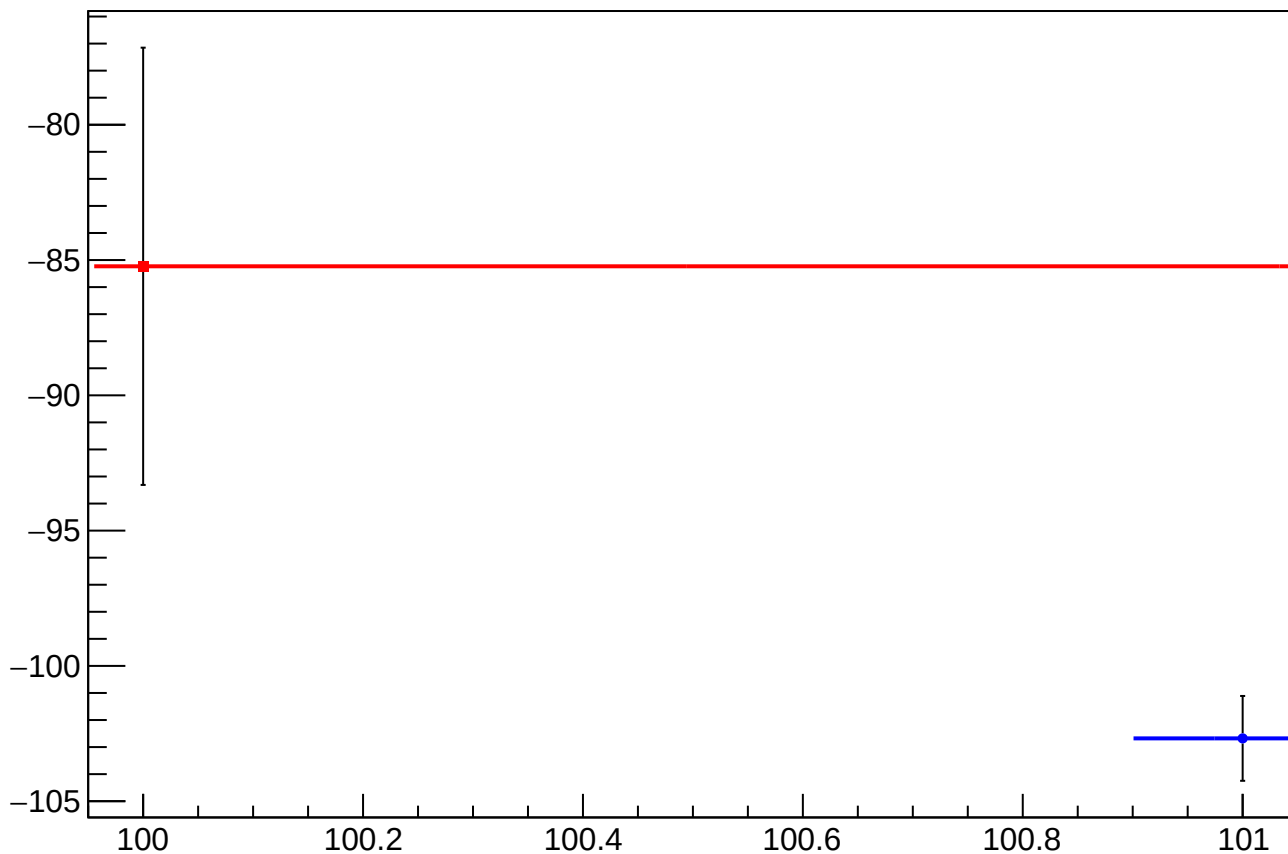
Right: -16.274 $\pm$ 1.616  $\chi^2$ /NDF: 3.4/1

In: -15.796 $\pm$ 1.636  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -16.274 $\pm$ 1.616  $\chi^2$ /NDF: 3.4/1

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -102.678+/-1.568  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -85.231+/-8.080  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: -102.046+/-1.539  $\chi^2$ /NDF: 4.5/1

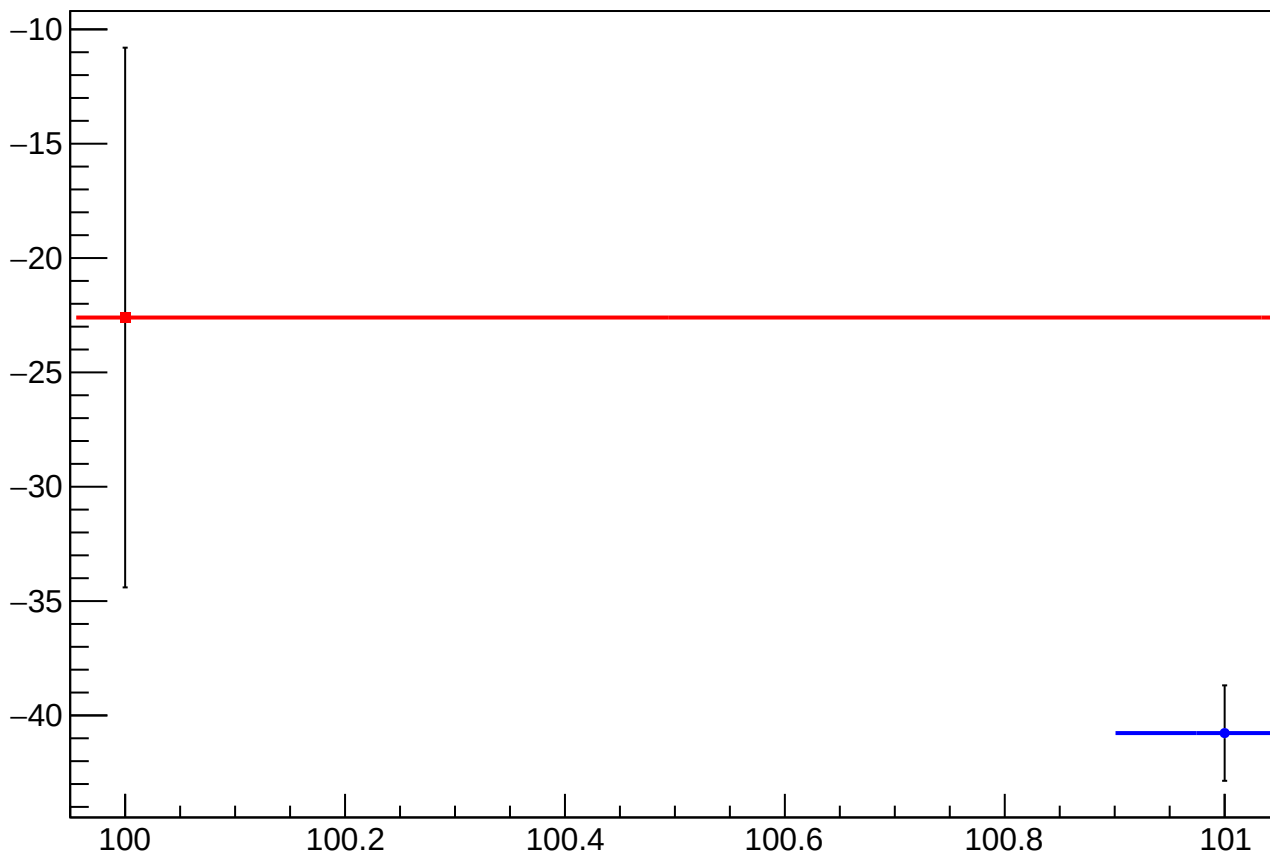
In: -102.678+/-1.568  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -102.046+/-1.539  $\chi^2$ /NDF: 4.5/1



reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -40.772 $\pm$ 2.087  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -22.601 $\pm$ 11.800  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

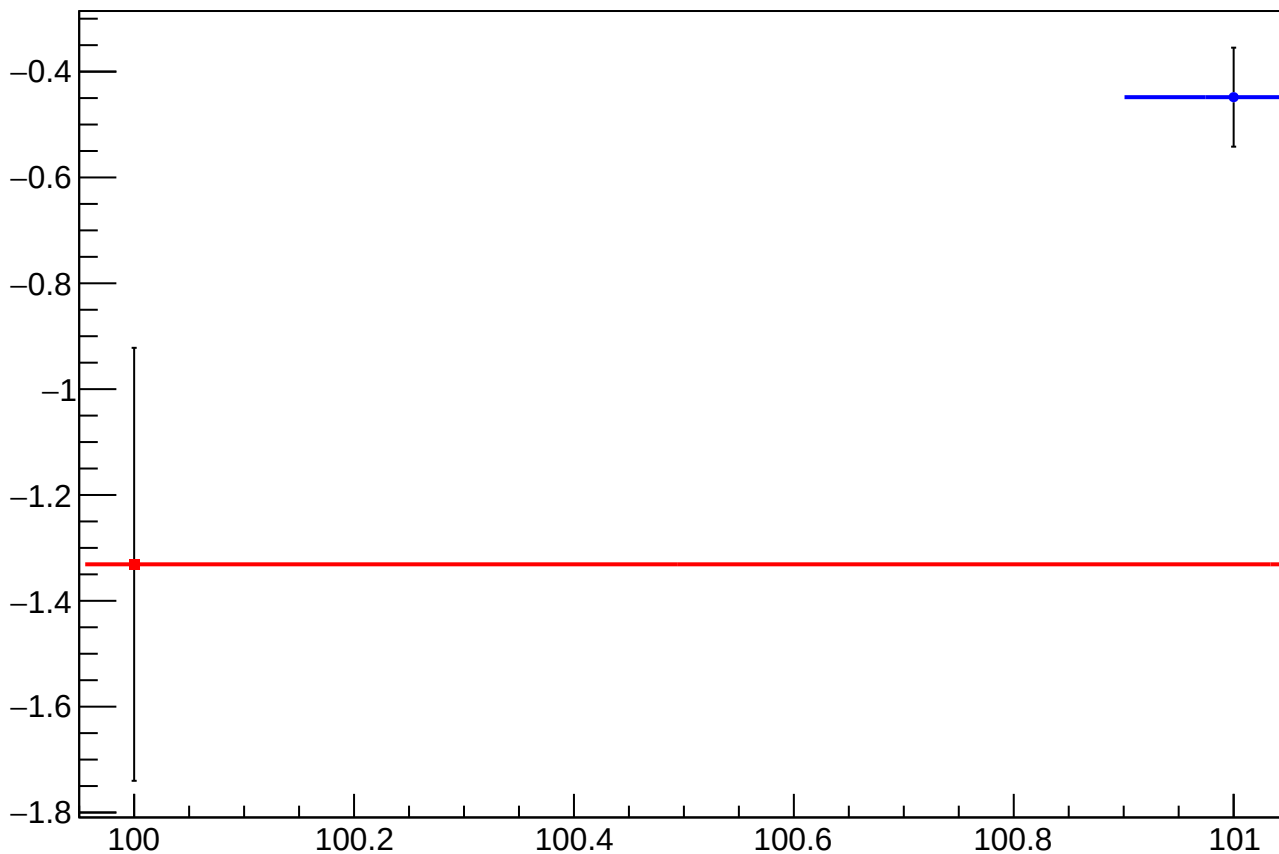
Right: -40.221 $\pm$ 2.055  $\chi^2$ /NDF: 2.3/1

In: -40.772 $\pm$ 2.087  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -40.221 $\pm$ 2.055  $\chi^2$ /NDF: 2.3/1

reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.448 $\pm$ 0.094  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.331 $\pm$ 0.409  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

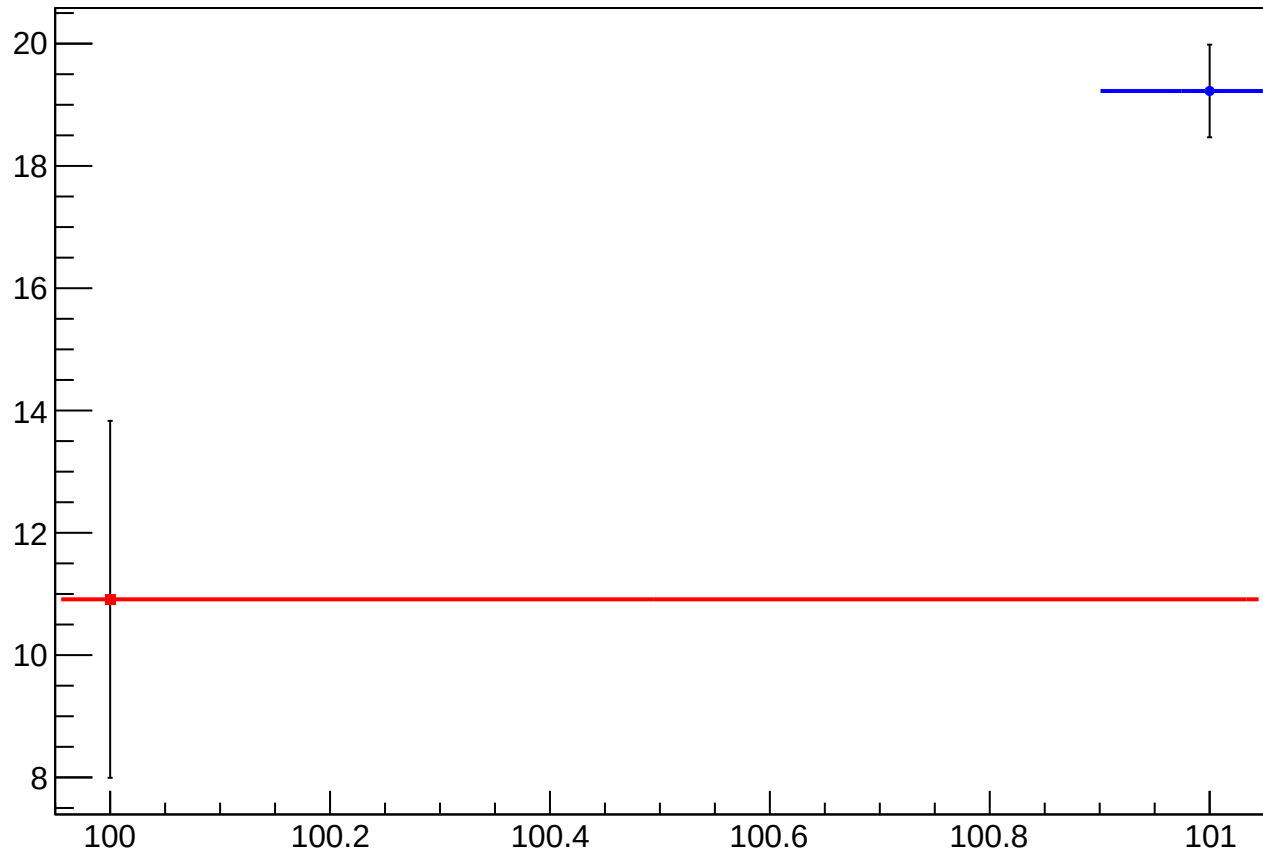
Right: -0.492 $\pm$ 0.091  $\chi^2$ /NDF: 4.4/1

In: -0.448 $\pm$ 0.094  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.492 $\pm$ 0.091  $\chi^2$ /NDF: 4.4/1

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 19.226 $\pm$ 0.757  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.912 $\pm$ 2.919  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

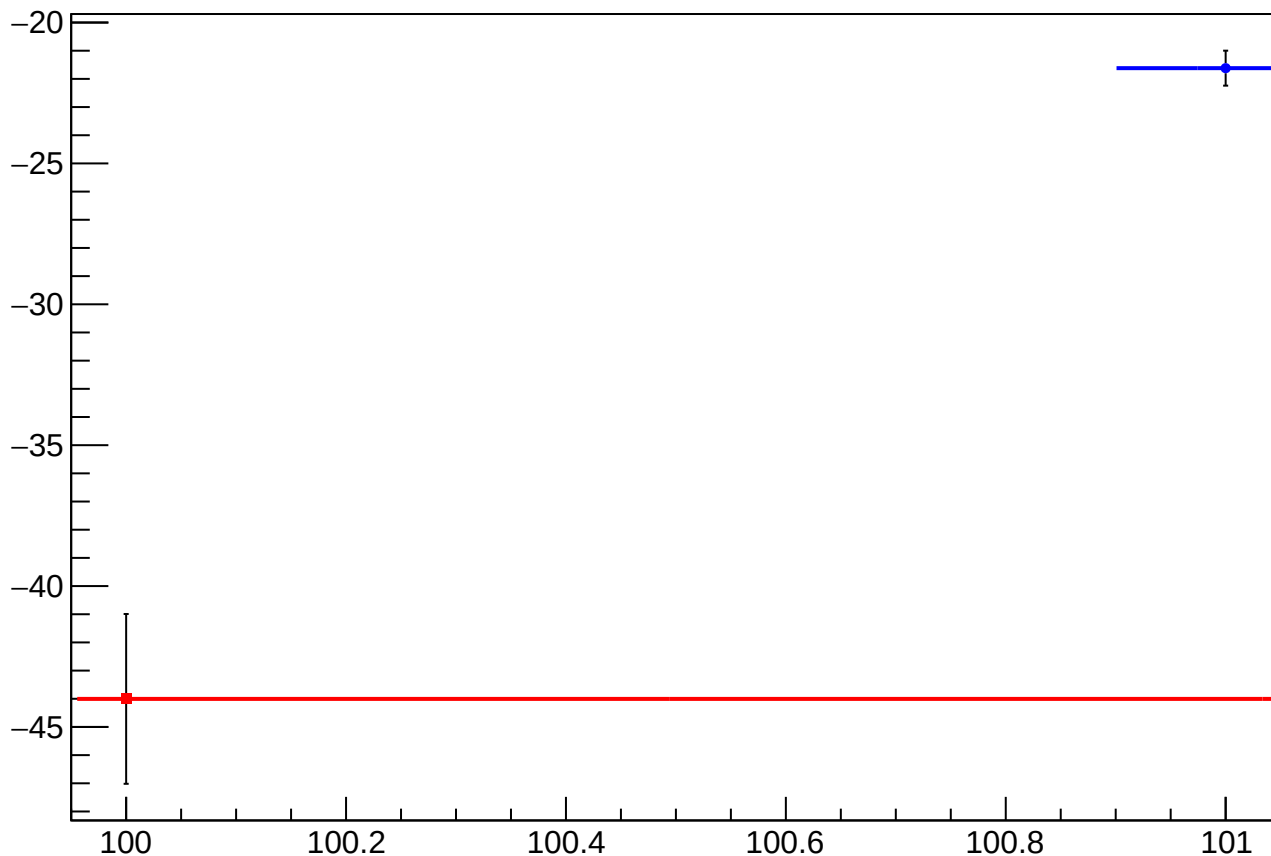
Right: 18.701 $\pm$ 0.733  $\chi^2$ /NDF: 7.6/1

In: 19.226 $\pm$ 0.757  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 18.701 $\pm$ 0.733  $\chi^2$ /NDF: 7.6/1

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -21.619 $\pm$ 0.621  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -44.004 $\pm$ 3.013  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

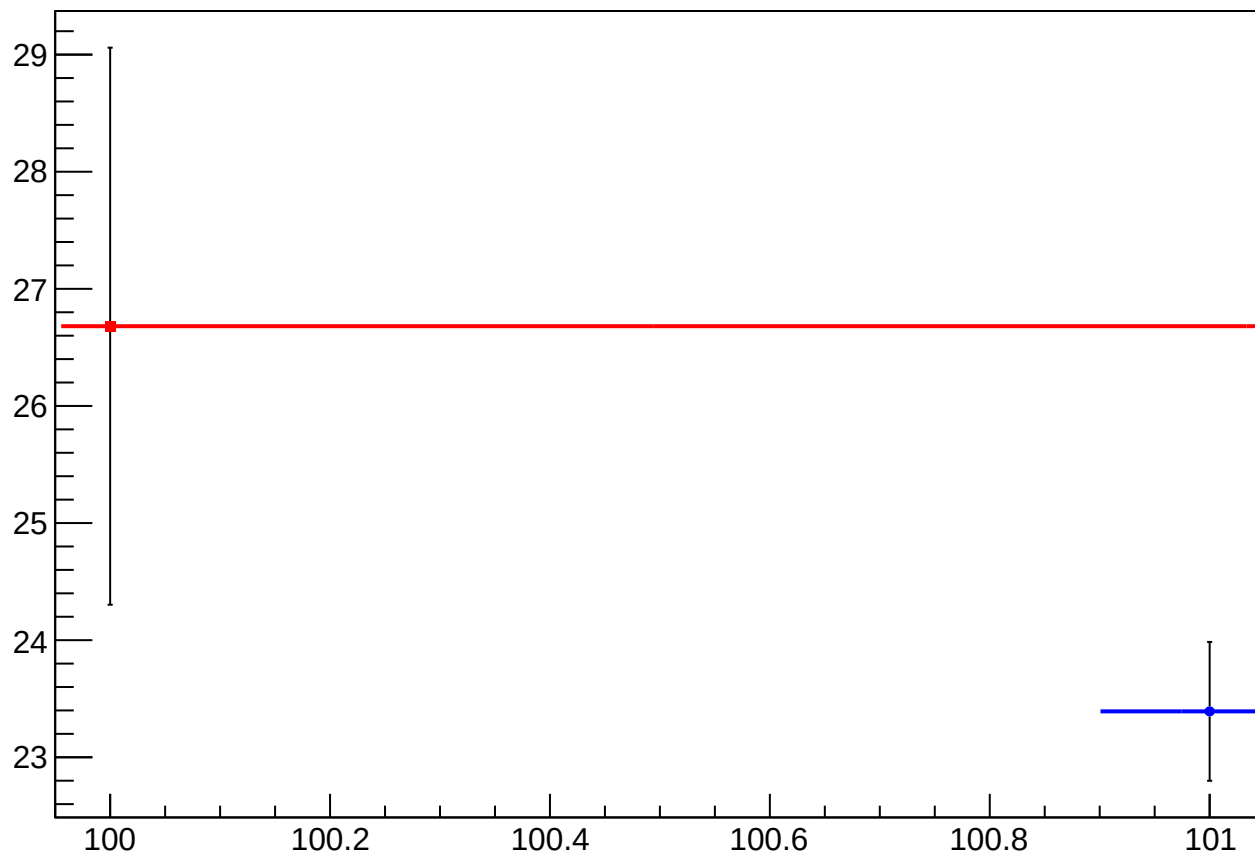
Right: -22.530 $\pm$ 0.608  $\chi^2$ /NDF: 52.9/1

In: -21.619 $\pm$ 0.621  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -22.530 $\pm$ 0.608  $\chi^2$ /NDF: 52.9/1

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 23.392 $\pm$ 0.593  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.681 $\pm$ 2.378  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

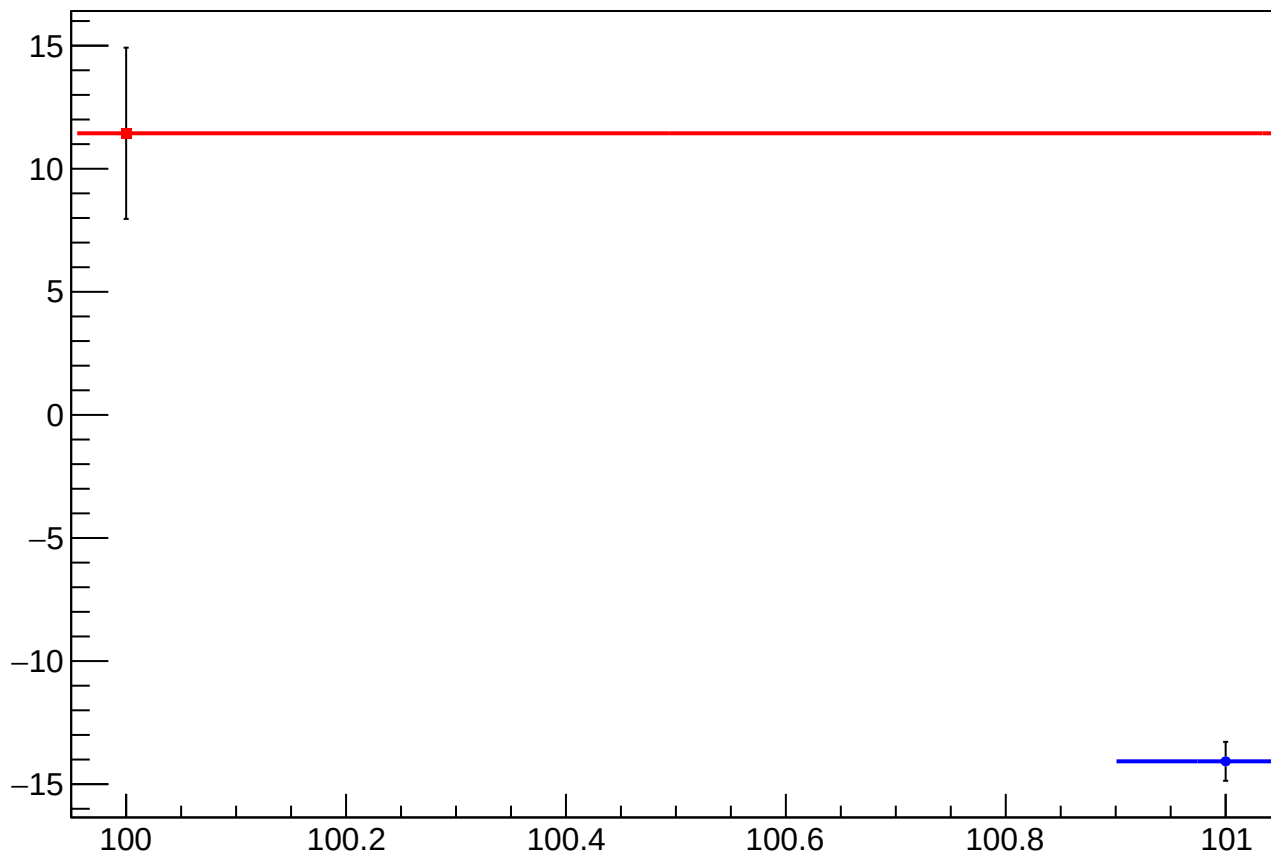
Right: 23.584 $\pm$ 0.575  $\chi^2$ /NDF: 1.8/1

In: 23.392 $\pm$ 0.593  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.584 $\pm$ 0.575  $\chi^2$ /NDF: 1.8/1

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -14.072 $\pm$ 0.791  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.441 $\pm$ 3.478  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

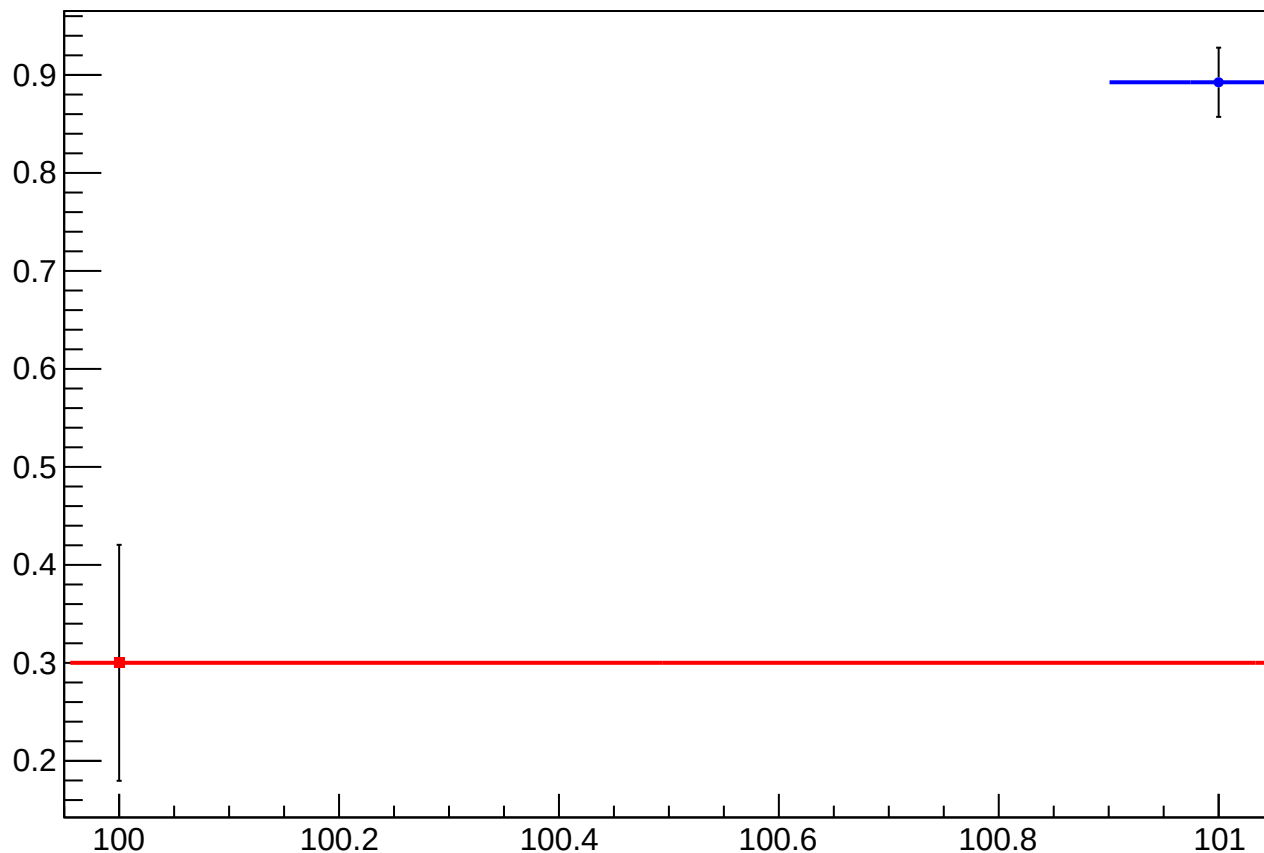
Right: -12.817 $\pm$ 0.771  $\chi^2/\text{NDF}$ : 51.2/1

In: -14.072 $\pm$ 0.791  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12.817 $\pm$ 0.771  $\chi^2/\text{NDF}$ : 51.2/1

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.893 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.300 $\pm$ 0.120  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

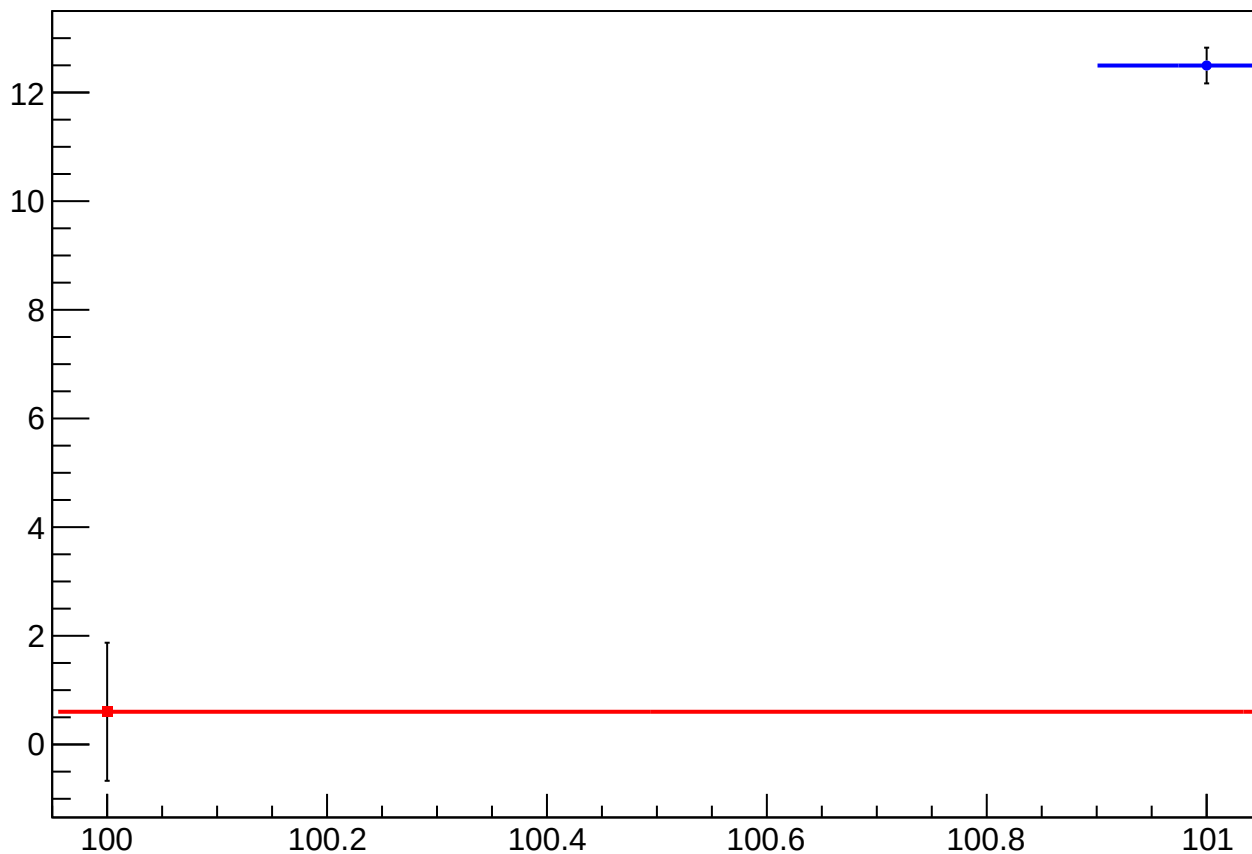
Right: 0.846 $\pm$ 0.034  $\chi^2$ /NDF: 22.3/1

In: 0.893 $\pm$ 0.035  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.846 $\pm$ 0.034  $\chi^2$ /NDF: 22.3/1

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 12.496 $\pm$ 0.329  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.602 $\pm$ 1.271  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 11.750 $\pm$ 0.318  $\chi^2$ /NDF: 82.1/1

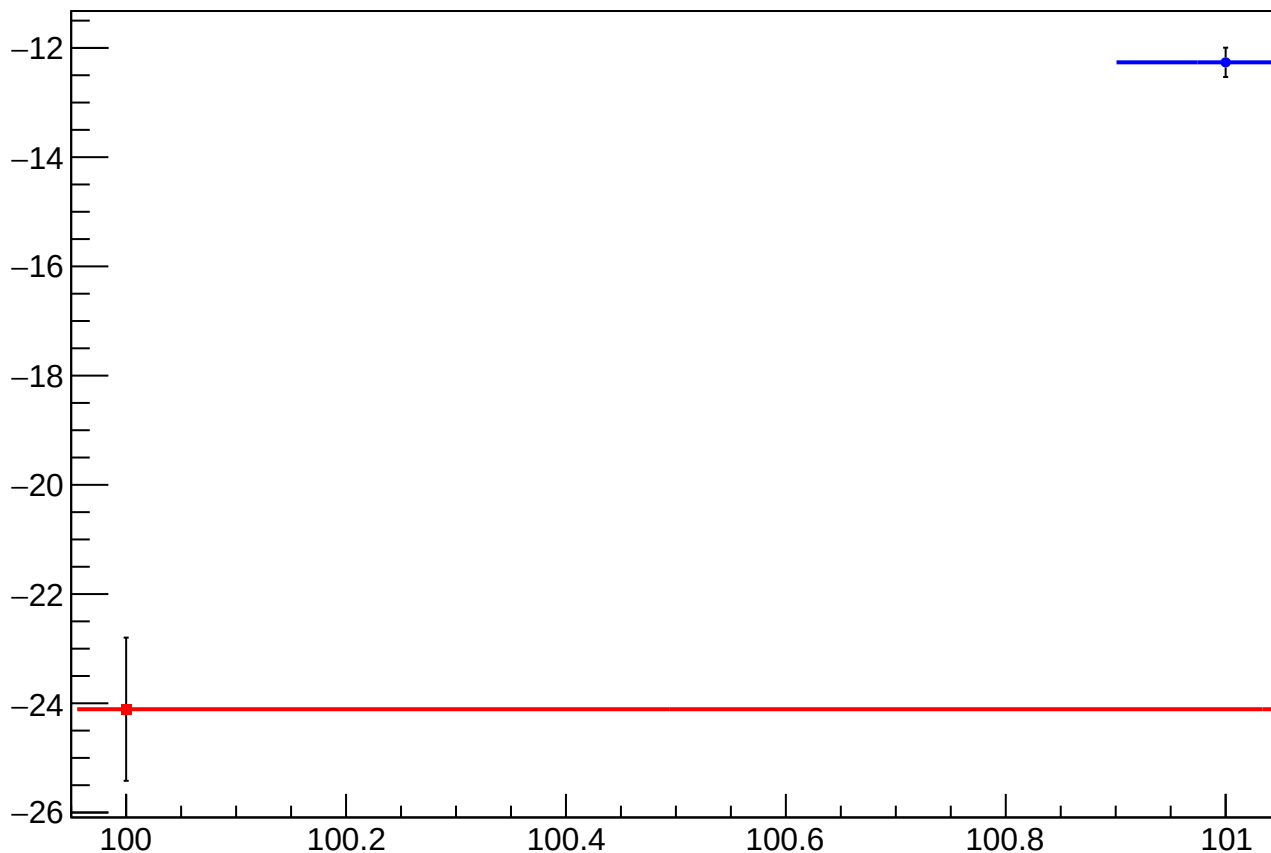
In: 12.496 $\pm$ 0.329  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.750 $\pm$ 0.318  $\chi^2$ /NDF: 82.1/1



reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -12.264 $\pm$ 0.269  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -24.108 $\pm$ 1.311  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

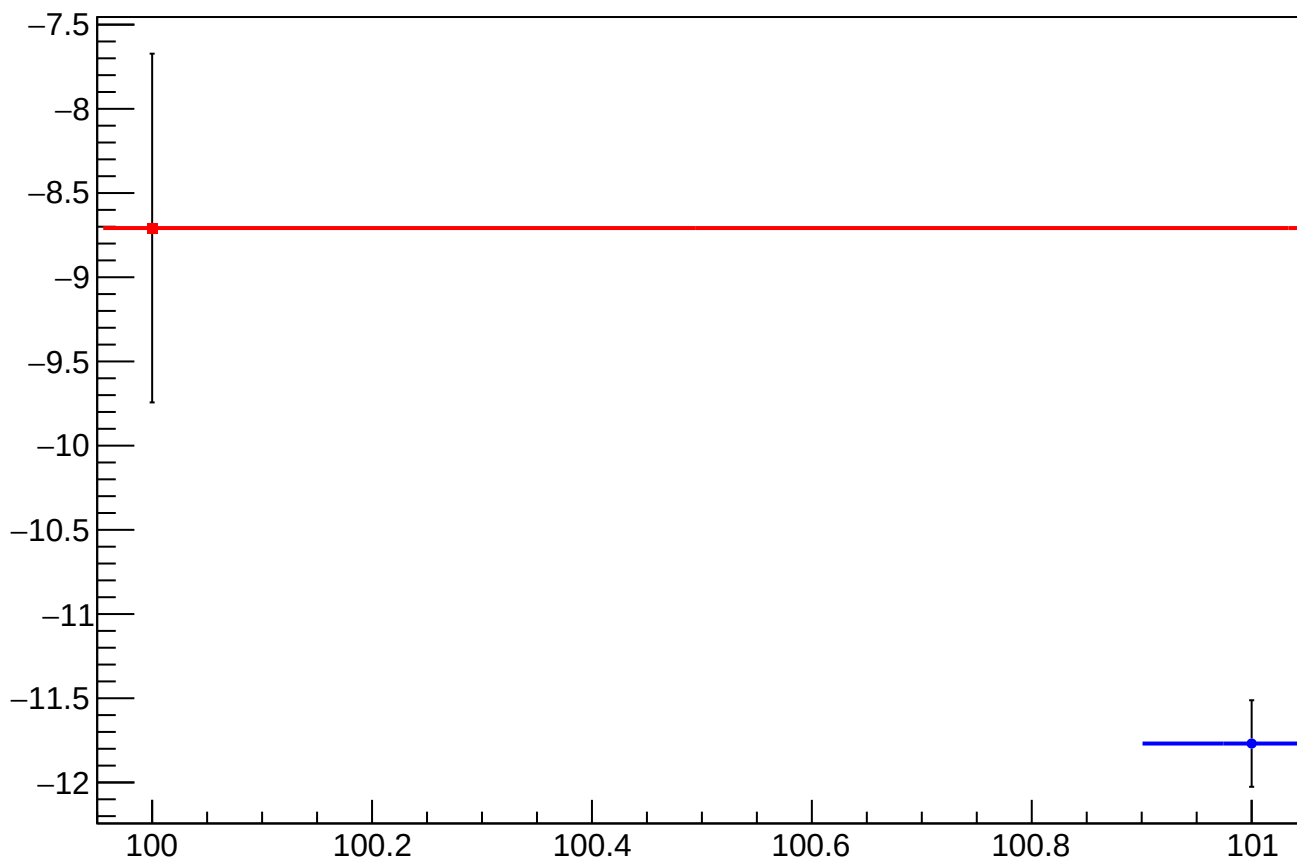
Right: -12.741 $\pm$ 0.263  $\chi^2$ /NDF: 78.4/1

In: -12.264 $\pm$ 0.269  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -12.741 $\pm$ 0.263  $\chi^2$ /NDF: 78.4/1

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -11.769 $\pm$ 0.257  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -8.708 $\pm$ 1.035  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

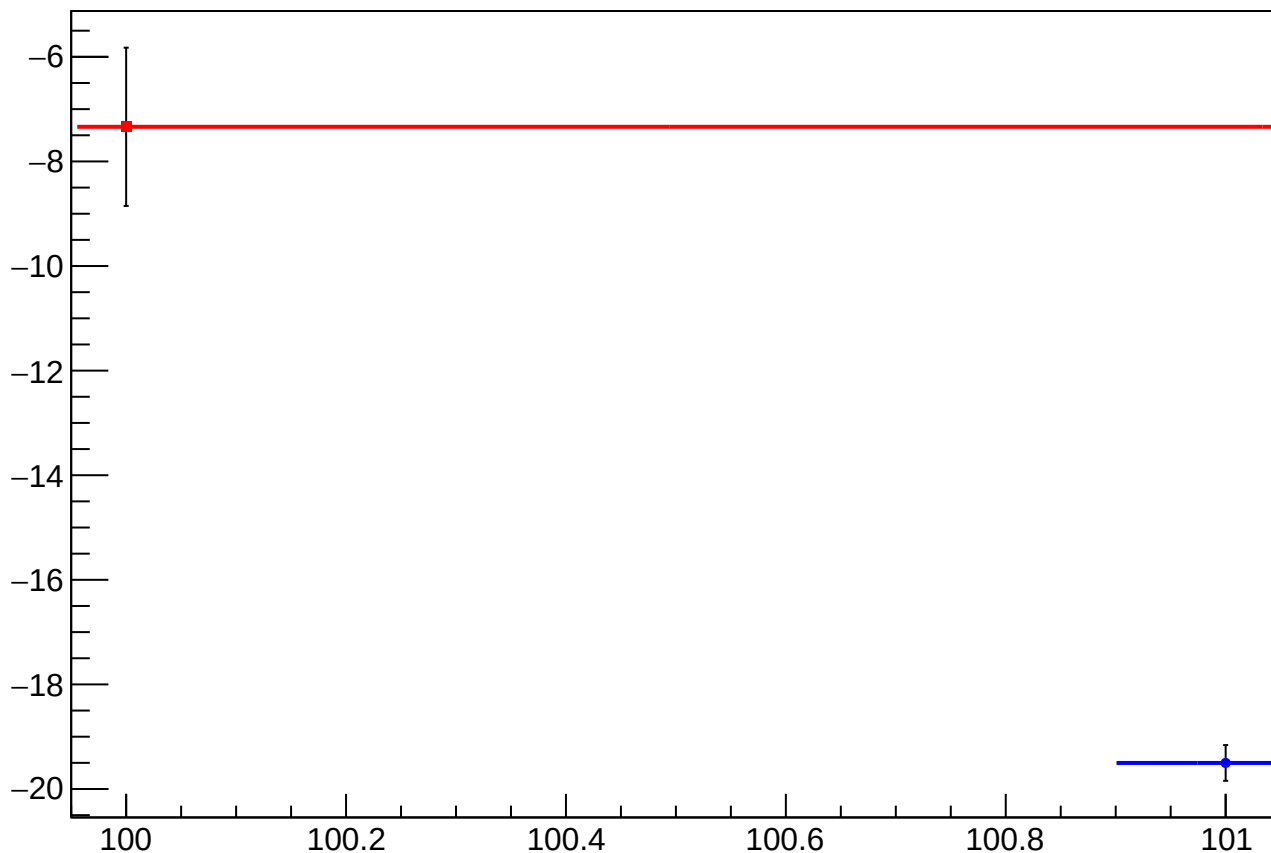
Right: -11.591 $\pm$ 0.249  $\chi^2$ /NDF: 8.2/1

In: -11.769 $\pm$ 0.257  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.591 $\pm$ 0.249  $\chi^2$ /NDF: 8.2/1

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -19.502 $\pm$ 0.341  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -7.338 $\pm$ 1.513  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

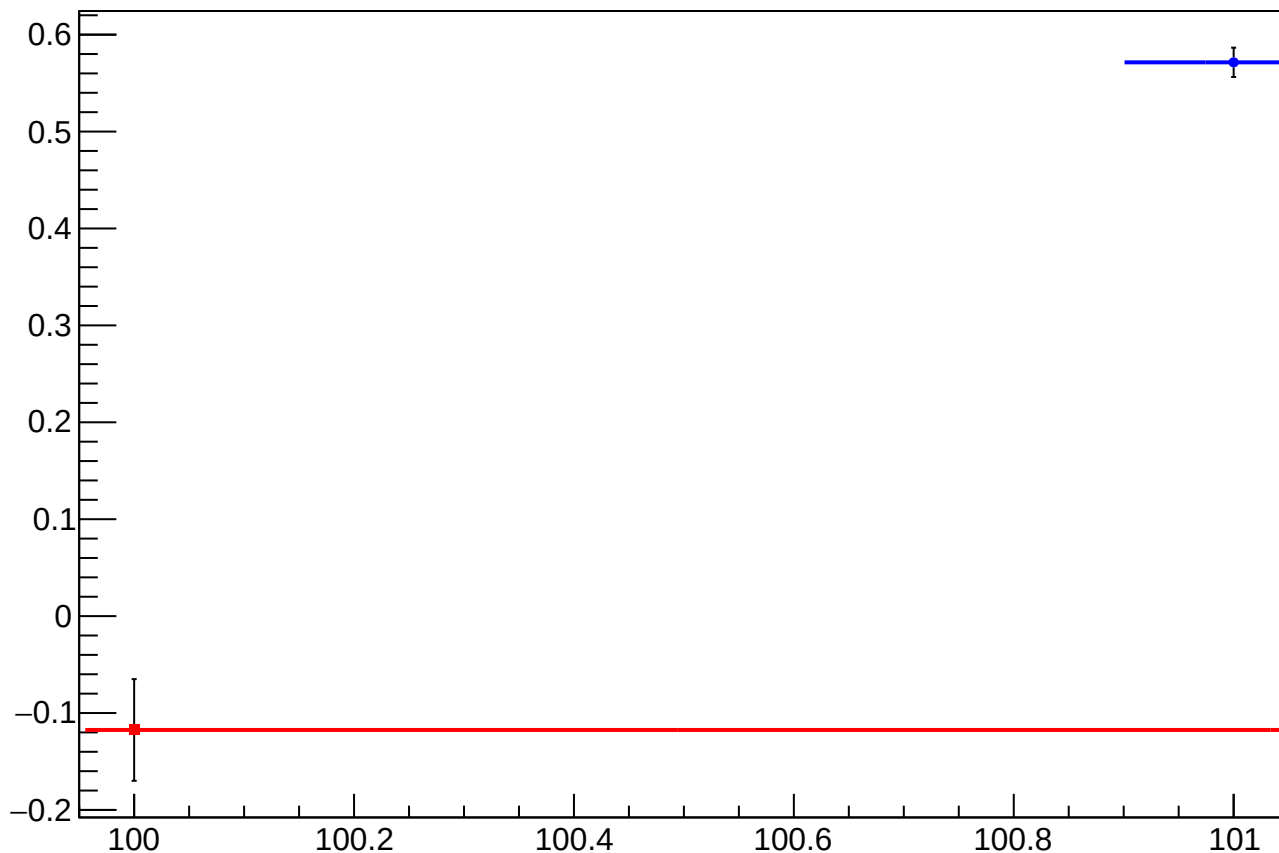
Right: -18.913 $\pm$ 0.333  $\chi^2$ /NDF: 61.5/1

In: -19.502 $\pm$ 0.341  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.913 $\pm$ 0.333  $\chi^2$ /NDF: 61.5/1

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.571+/-0.015  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.117+/-0.052  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

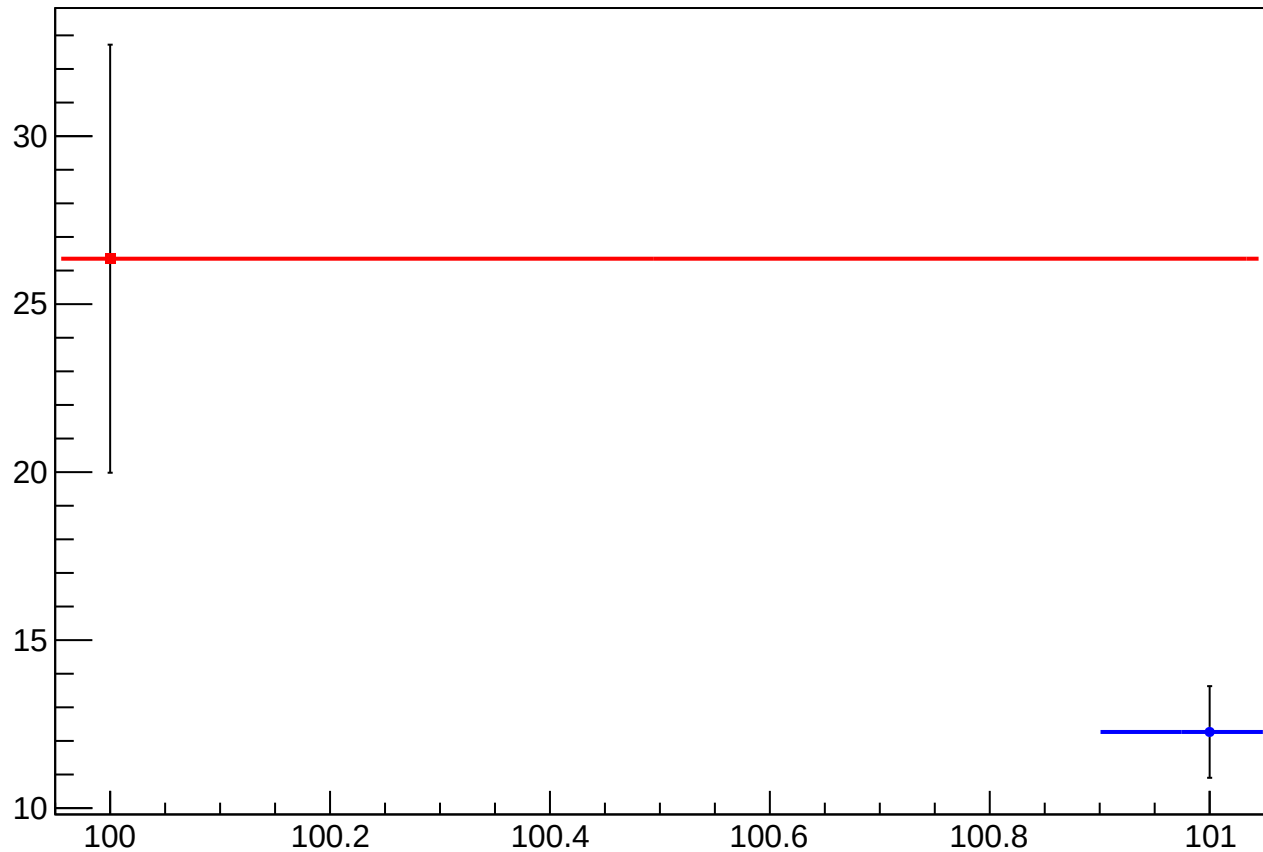
Right: 0.518+/-0.015  $\chi^2$ /NDF: 159.2/1

In: 0.571+/-0.015  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.518+/-0.015  $\chi^2$ /NDF: 159.2/1

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 12.266 $\pm$ 1.364  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.353 $\pm$ 6.370  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

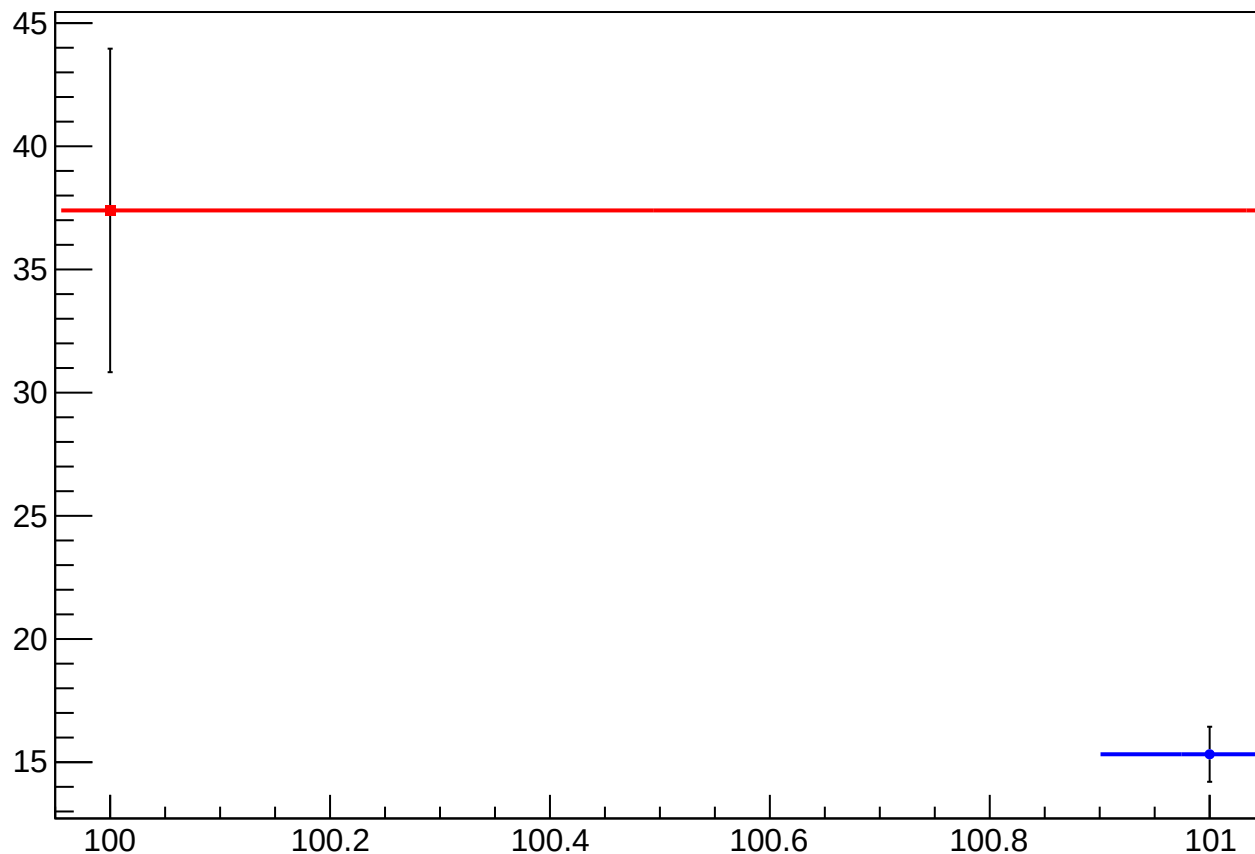
Right: 12.884 $\pm$ 1.334  $\chi^2$ /NDF: 4.7/1

In: 12.266 $\pm$ 1.364  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.884 $\pm$ 1.334  $\chi^2$ /NDF: 4.7/1

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 15.322+/-1.117  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.396+/-6.566  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

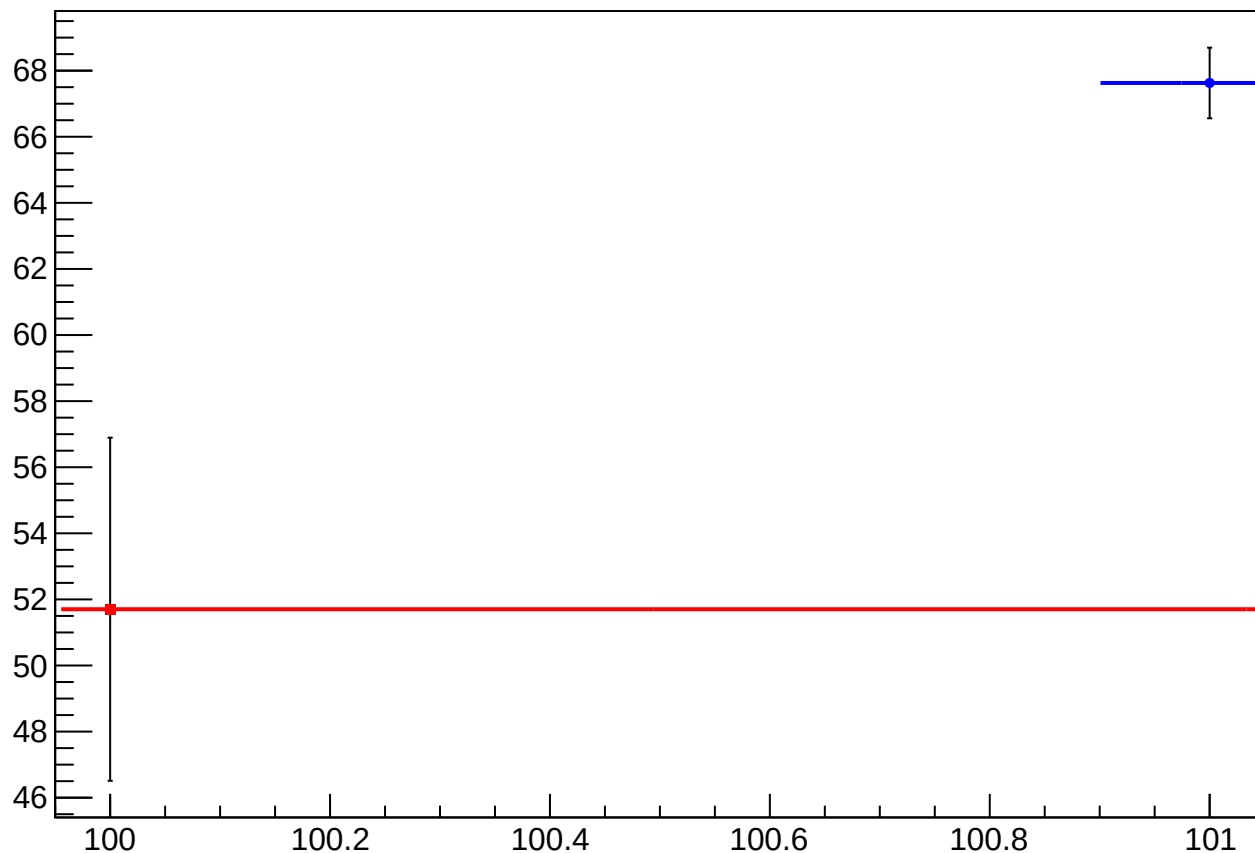
Right: 15.943+/-1.102  $\chi^2/\text{NDF}$ : 11.0/1

In: 15.322+/-1.117  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.943+/-1.102  $\chi^2/\text{NDF}$ : 11.0/1

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 67.627 $\pm$ 1.068  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 51.702 $\pm$ 5.191  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

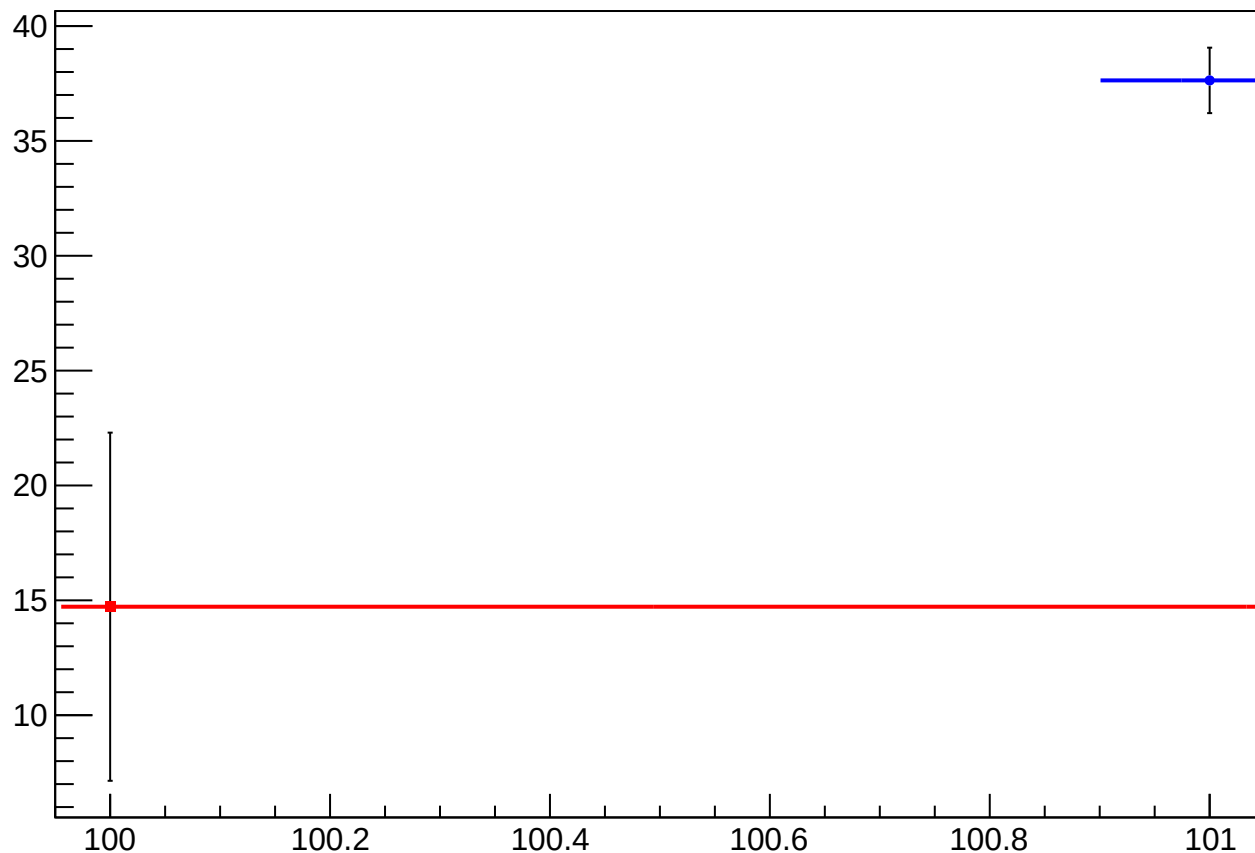
Right: 66.980 $\pm$ 1.046  $\chi^2$ /NDF: 9.0/1

In: 67.627 $\pm$ 1.068  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 66.980 $\pm$ 1.046  $\chi^2$ /NDF: 9.0/1

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 37.635 $\pm$ 1.425  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.722 $\pm$ 7.578  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 36.852 $\pm$ 1.400  $\chi^2/\text{NDF}$ : 8.8/1

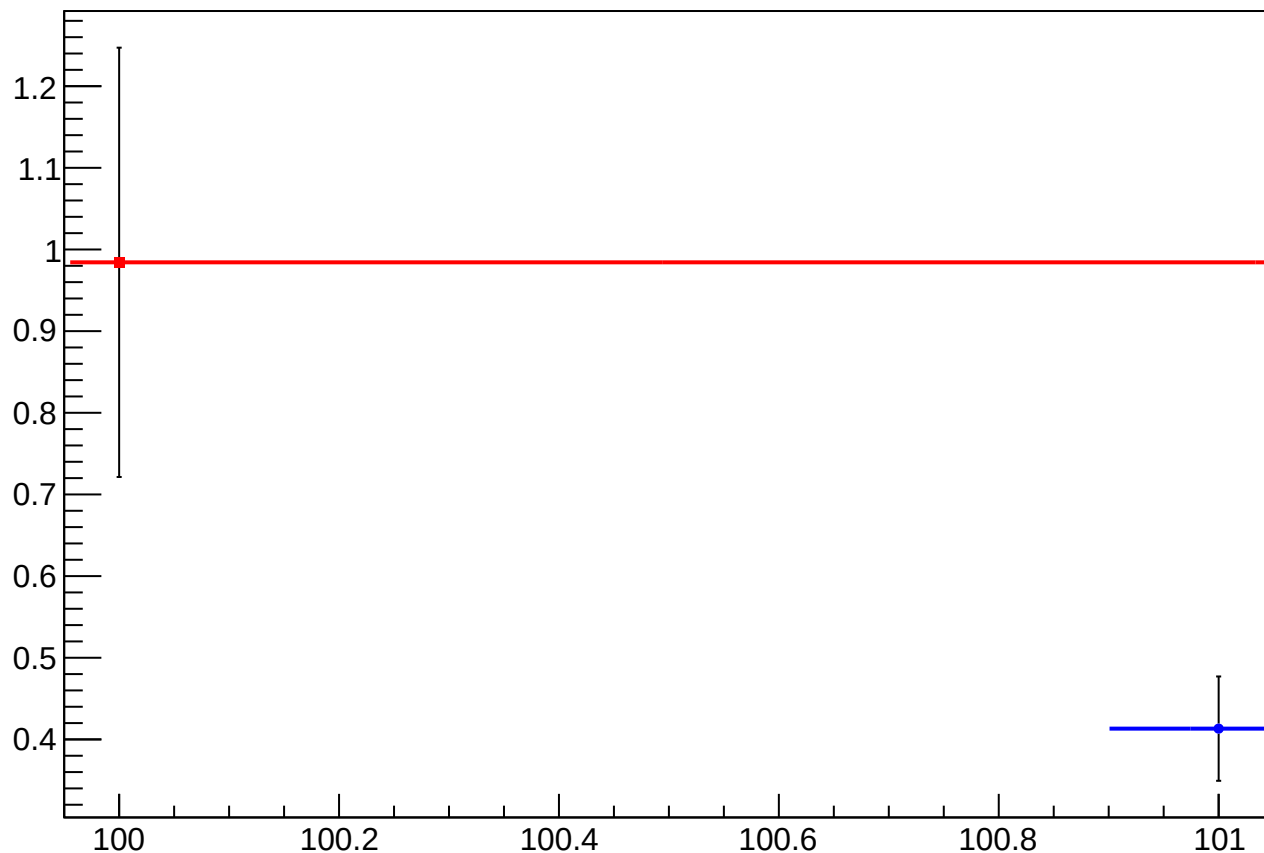
In: 37.635 $\pm$ 1.425  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.852 $\pm$ 1.400  $\chi^2/\text{NDF}$ : 8.8/1



reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.413 $\pm$ 0.064  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.984 $\pm$ 0.263  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

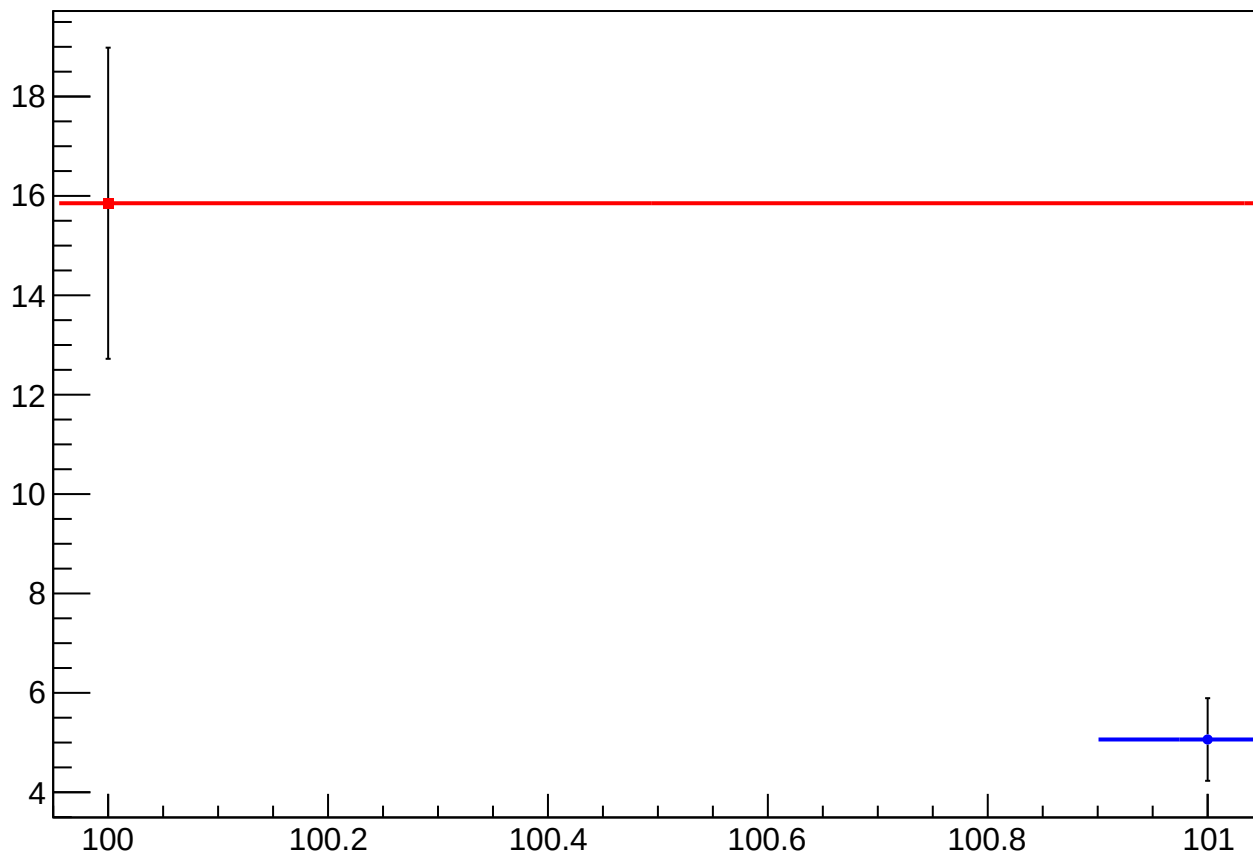
Right: 0.445 $\pm$ 0.062  $\chi^2$ /NDF: 4.5/1

In: 0.413 $\pm$ 0.064  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.445 $\pm$ 0.062  $\chi^2$ /NDF: 4.5/1

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 5.062 $\pm$ 0.831  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 15.853 $\pm$ 3.130  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

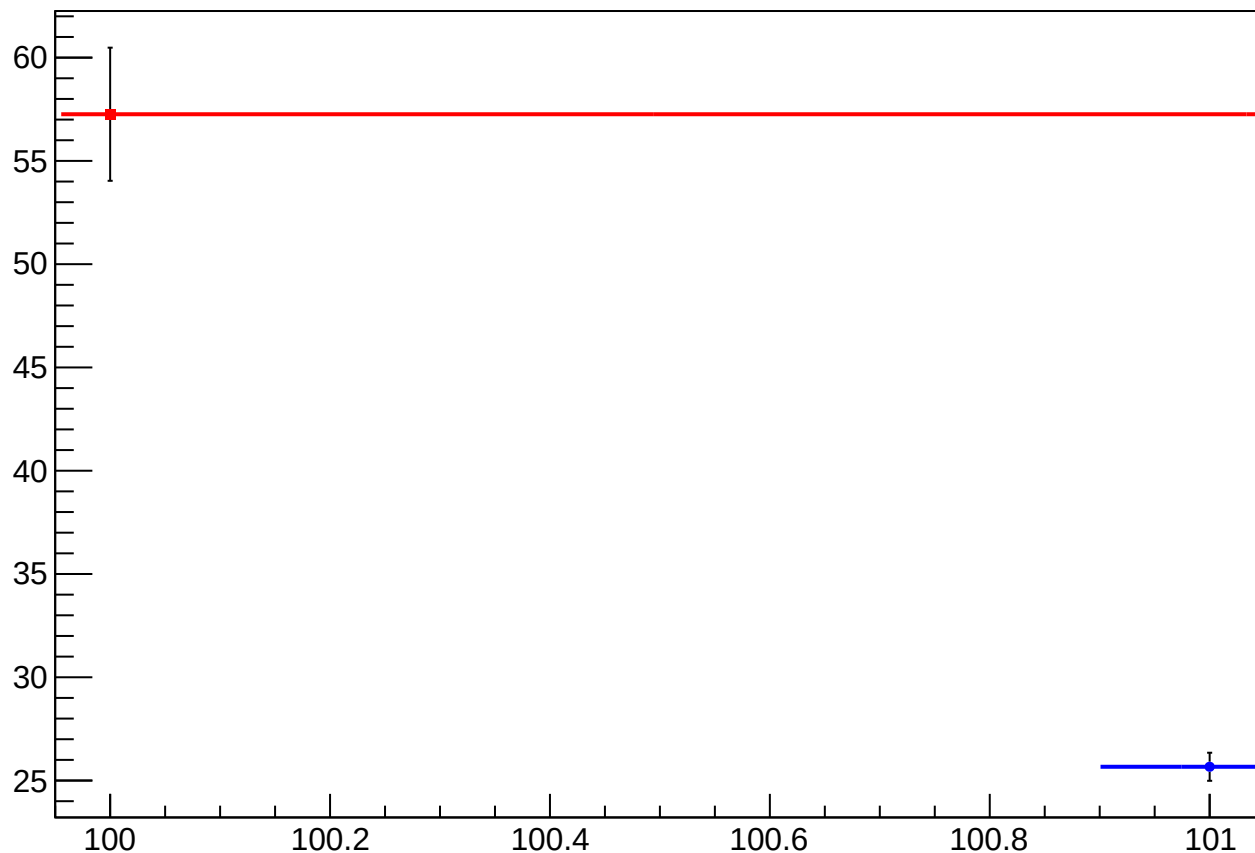
Right: 5.773 $\pm$ 0.803  $\chi^2$ /NDF: 11.1/1

In: 5.062 $\pm$ 0.831  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 5.773 $\pm$ 0.803  $\chi^2$ /NDF: 11.1/1

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 25.667 $\pm$ 0.679  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 57.259 $\pm$ 3.223  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

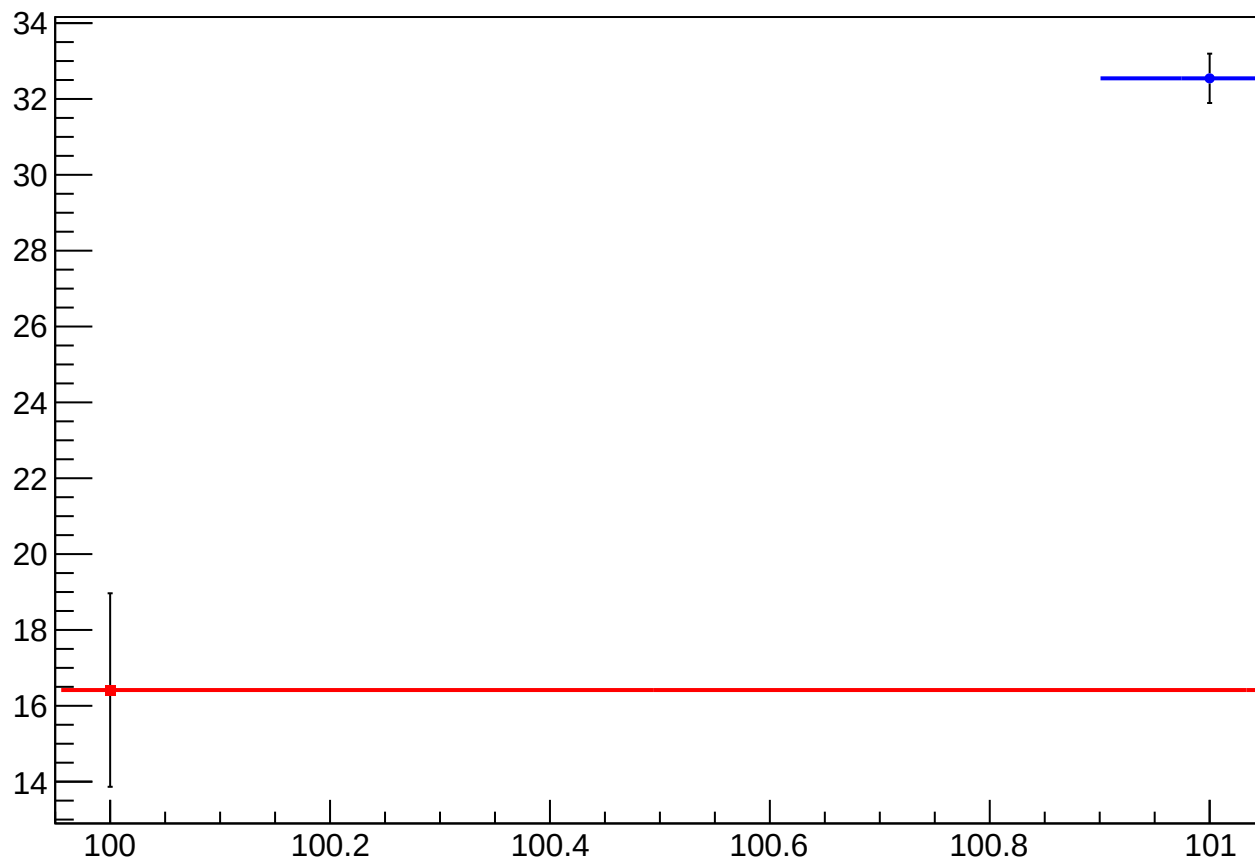
Right: 27.011 $\pm$ 0.665  $\chi^2$ /NDF: 92.0/1

In: 25.667 $\pm$ 0.679  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.011 $\pm$ 0.665  $\chi^2$ /NDF: 92.0/1

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 32.544+/-0.650  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.416+/-2.551  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

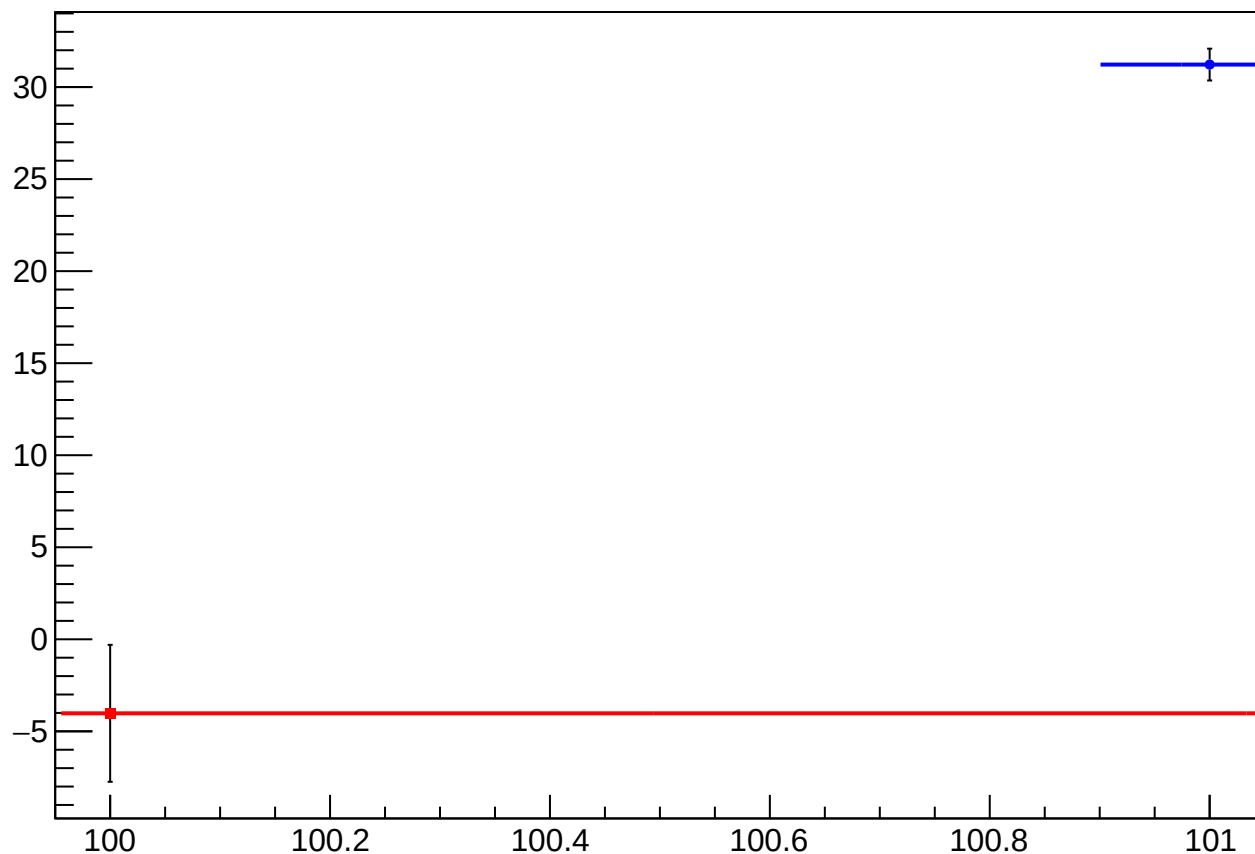
Right: 31.560+/-0.630  $\chi^2/\text{NDF}$ : 37.5/1

In: 32.544+/-0.650  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 31.560+/-0.630  $\chi^2/\text{NDF}$ : 37.5/1

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 31.221 $\pm$ 0.864  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -4.022 $\pm$ 3.720  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

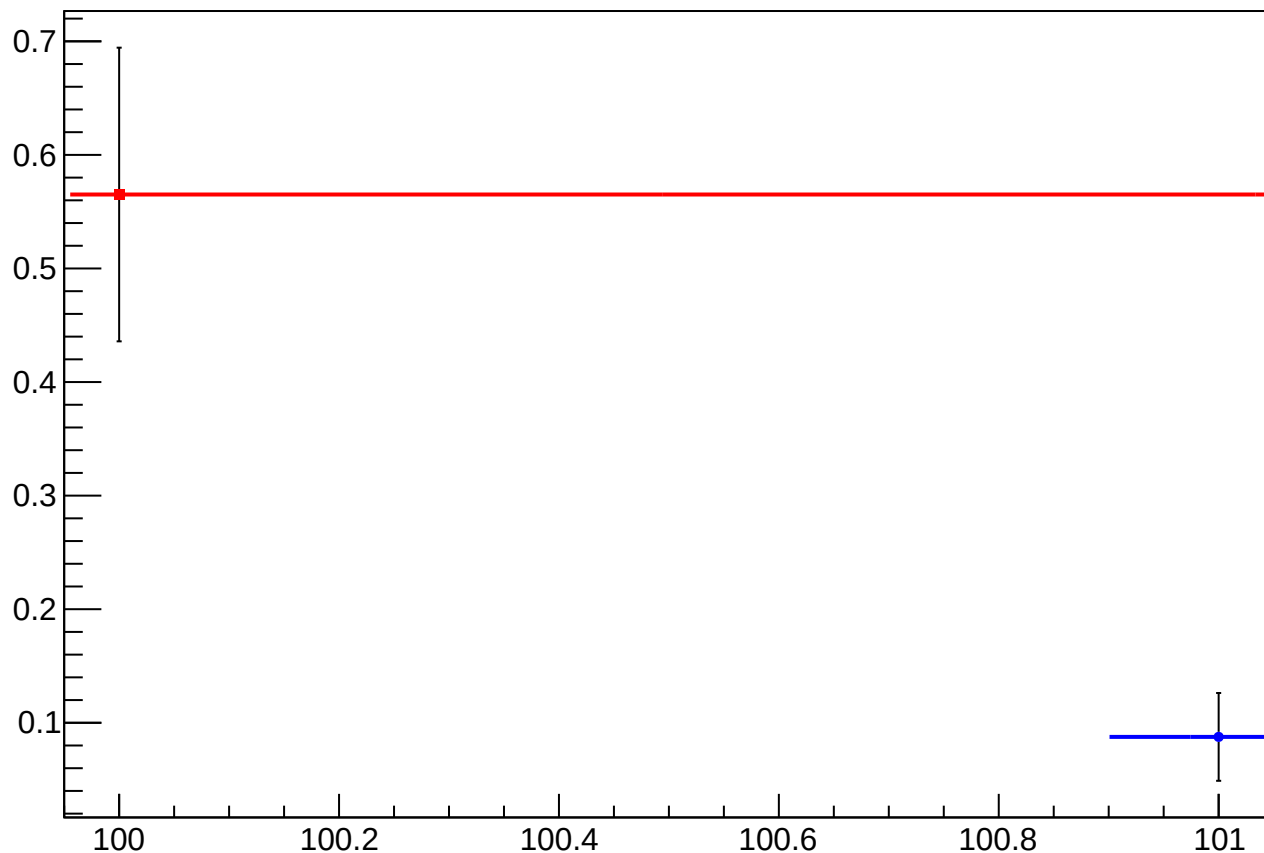
Right: 29.417 $\pm$ 0.842  $\chi^2$ /NDF: 85.2/1

In: 31.221 $\pm$ 0.864  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.417 $\pm$ 0.842  $\chi^2$ /NDF: 85.2/1

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.088+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.565+/-0.129  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

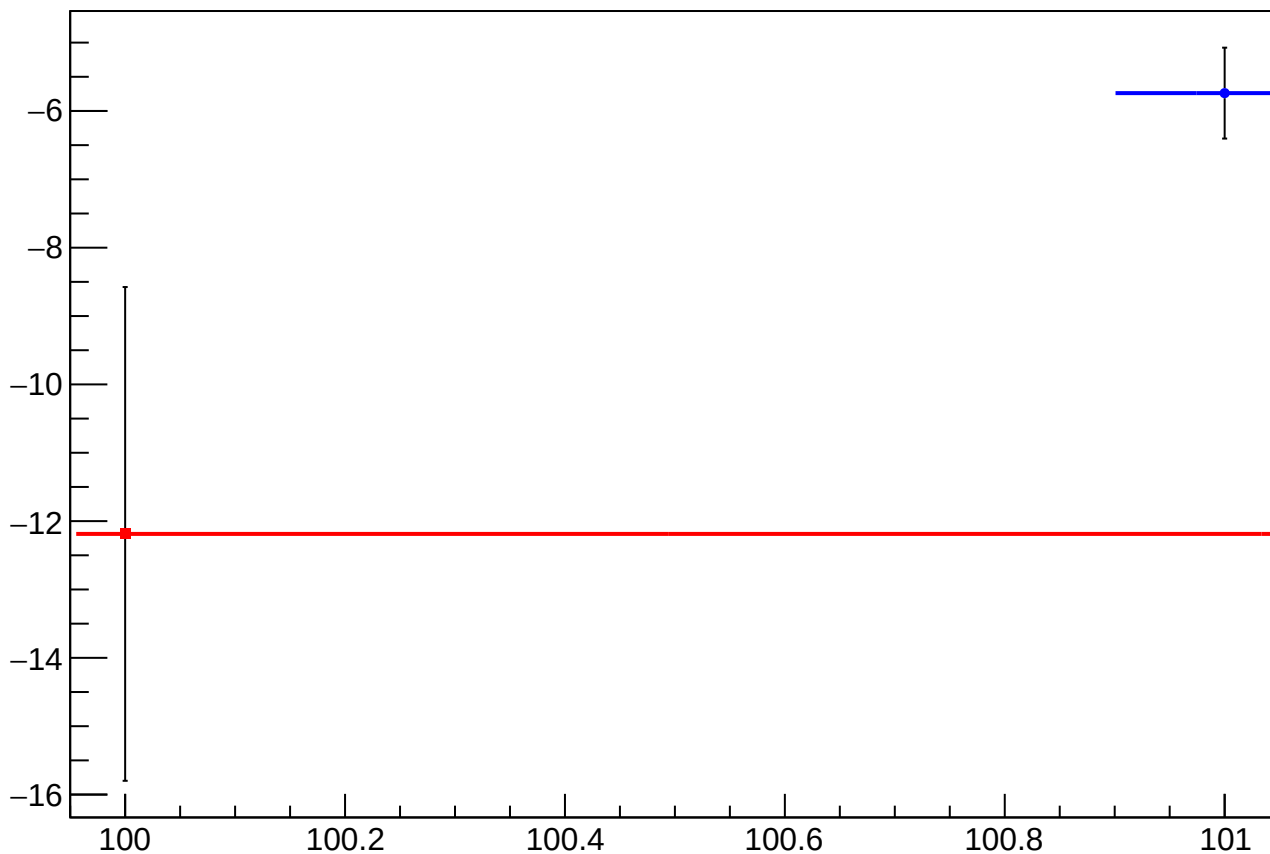
Right: 0.127+/-0.037  $\chi^2/\text{NDF}$ : 12.5/1

In: 0.088+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.127+/-0.037  $\chi^2/\text{NDF}$ : 12.5/1

reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -5.739+/-0.665  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.187+/-3.612  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

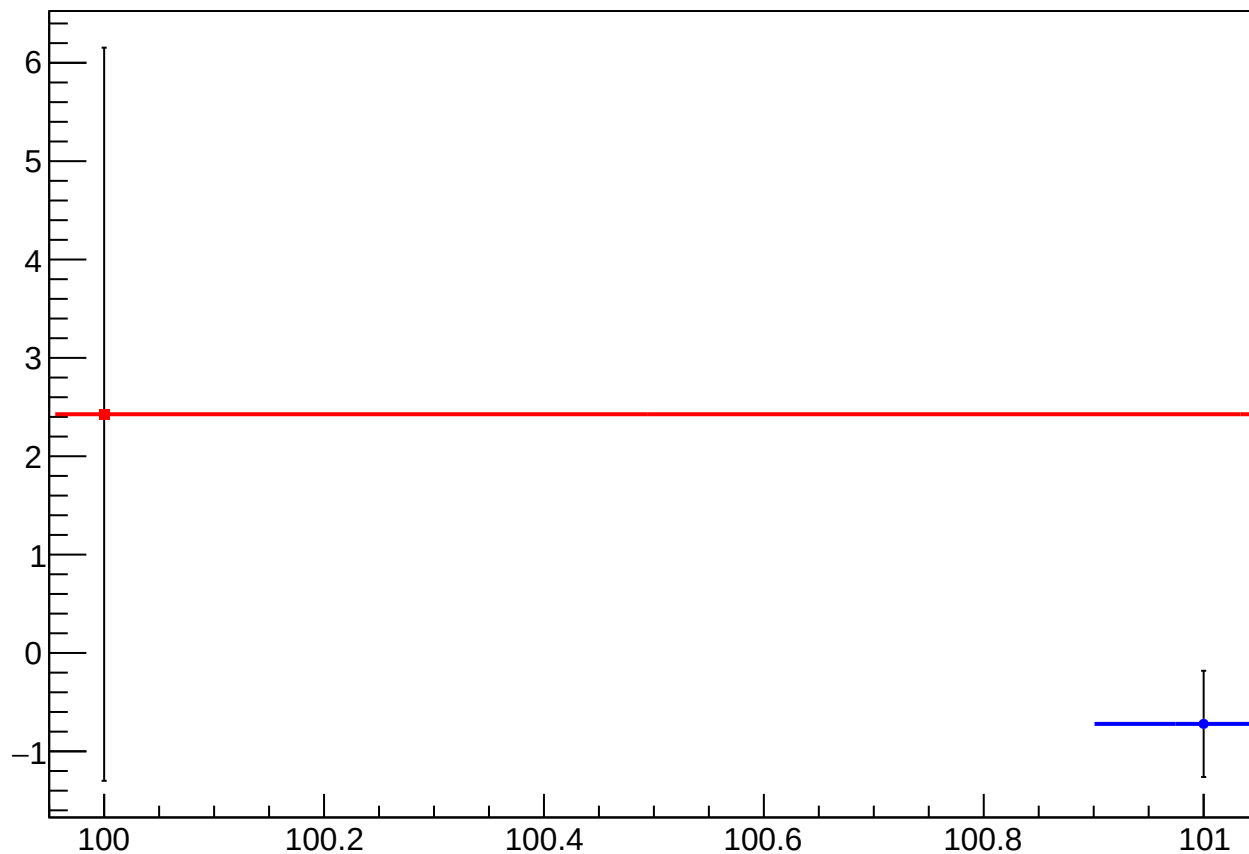
Right: -5.950+/-0.654  $\chi^2/\text{NDF}$ : 3.1/1

In: -5.739+/-0.665  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.950+/-0.654  $\chi^2/\text{NDF}$ : 3.1/1

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.721 $\pm$ 0.540  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2.427 $\pm$ 3.727  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -0.656 $\pm$ 0.535  $\chi^2$ /NDF: 0.7/1

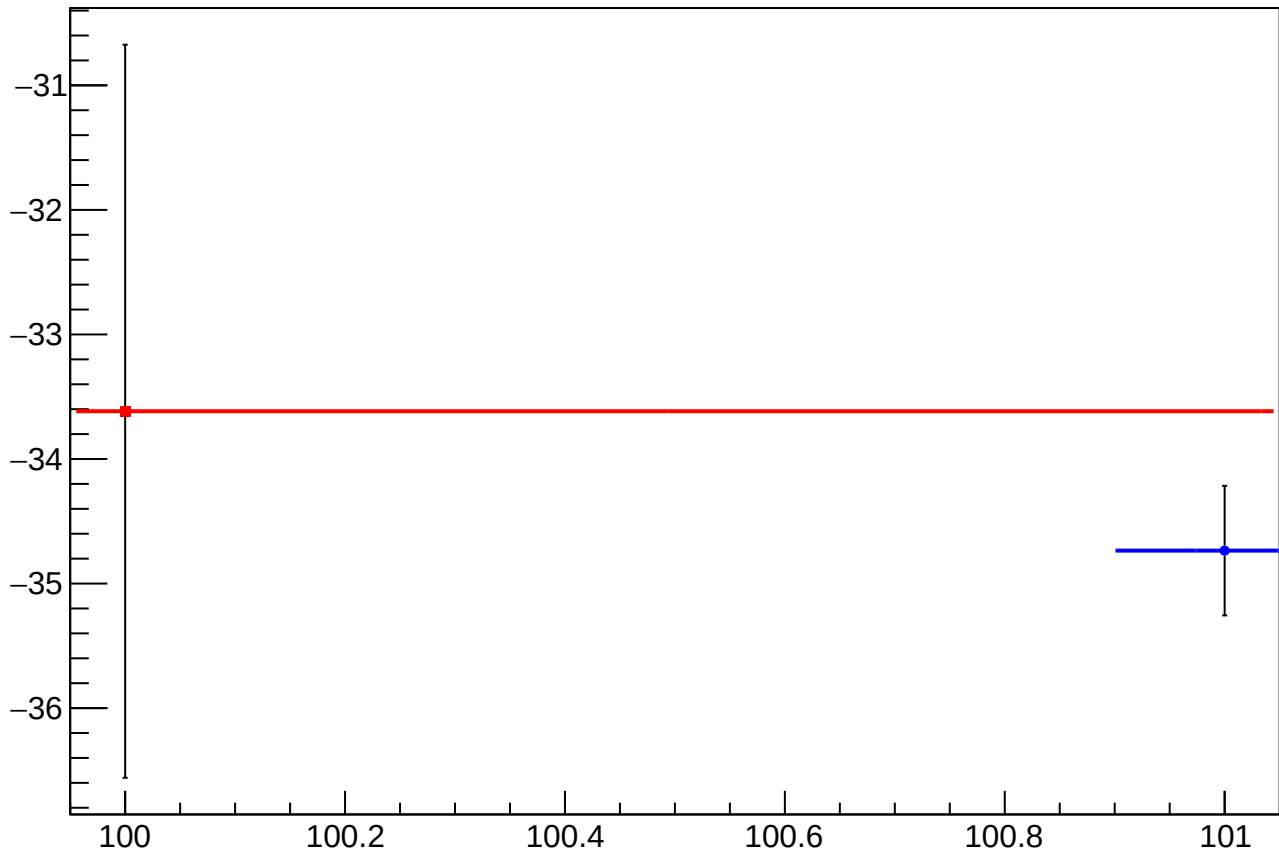
In: -0.721 $\pm$ 0.540  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.656 $\pm$ 0.535  $\chi^2$ /NDF: 0.7/1



reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -34.735 $\pm$ 0.520  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.616 $\pm$ 2.943  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

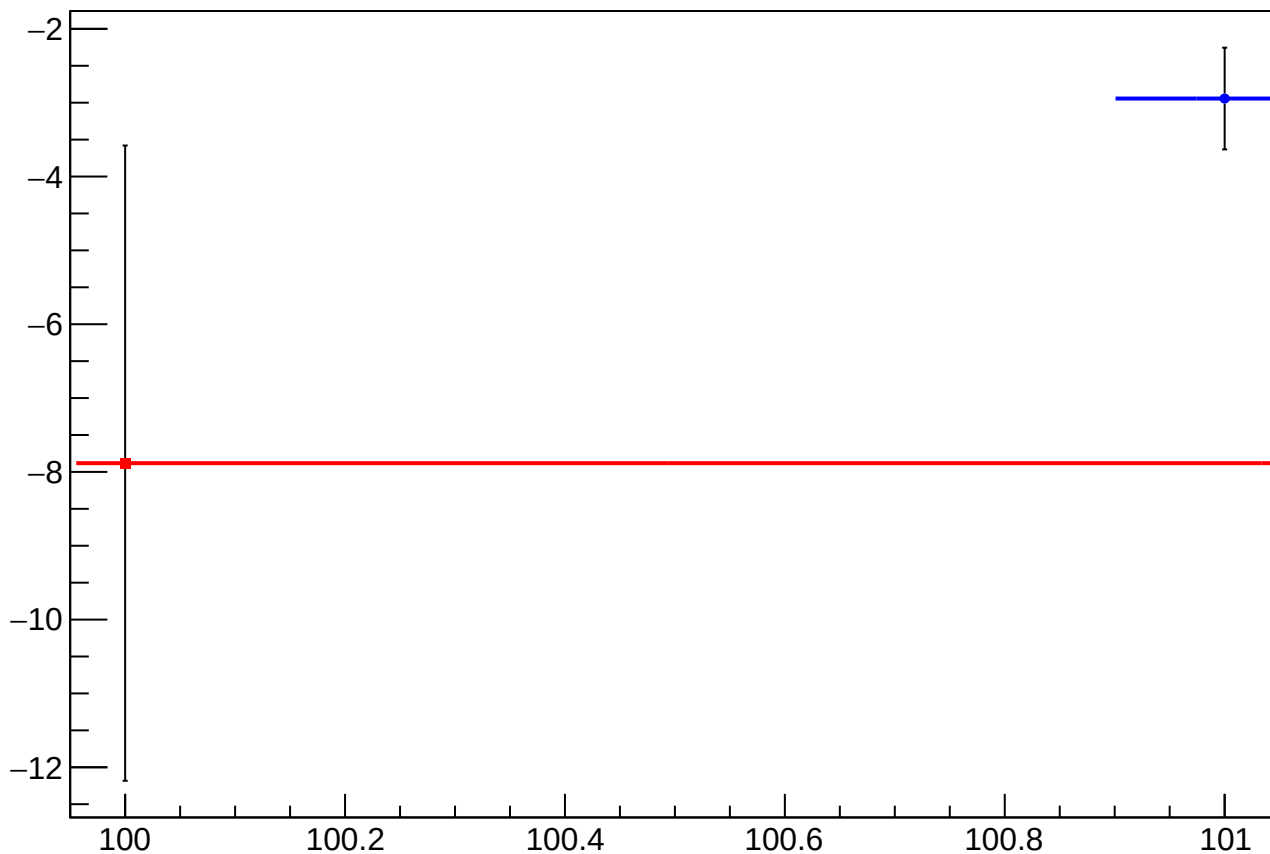
Right: -34.702 $\pm$ 0.512  $\chi^2$ /NDF: 0.1/1

In: -34.735 $\pm$ 0.520  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -34.702 $\pm$ 0.512  $\chi^2$ /NDF: 0.1/1

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -2.944+/-0.689  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -7.882+/-4.302  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

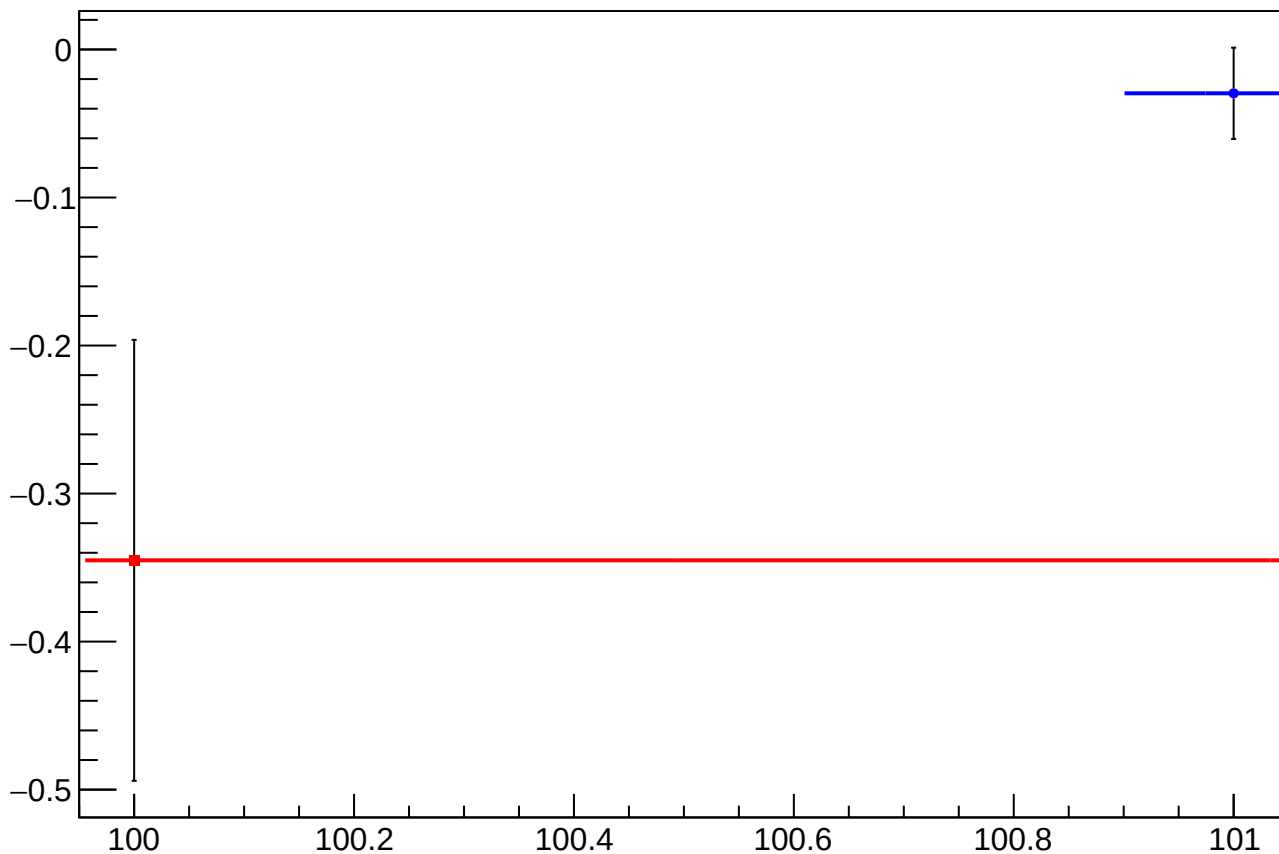
Right: -3.067+/-0.680  $\chi^2/\text{NDF}$ : 1.3/1

In: -2.944+/-0.689  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.067+/-0.680  $\chi^2/\text{NDF}$ : 1.3/1

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.030+/-0.031  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.345+/-0.149  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

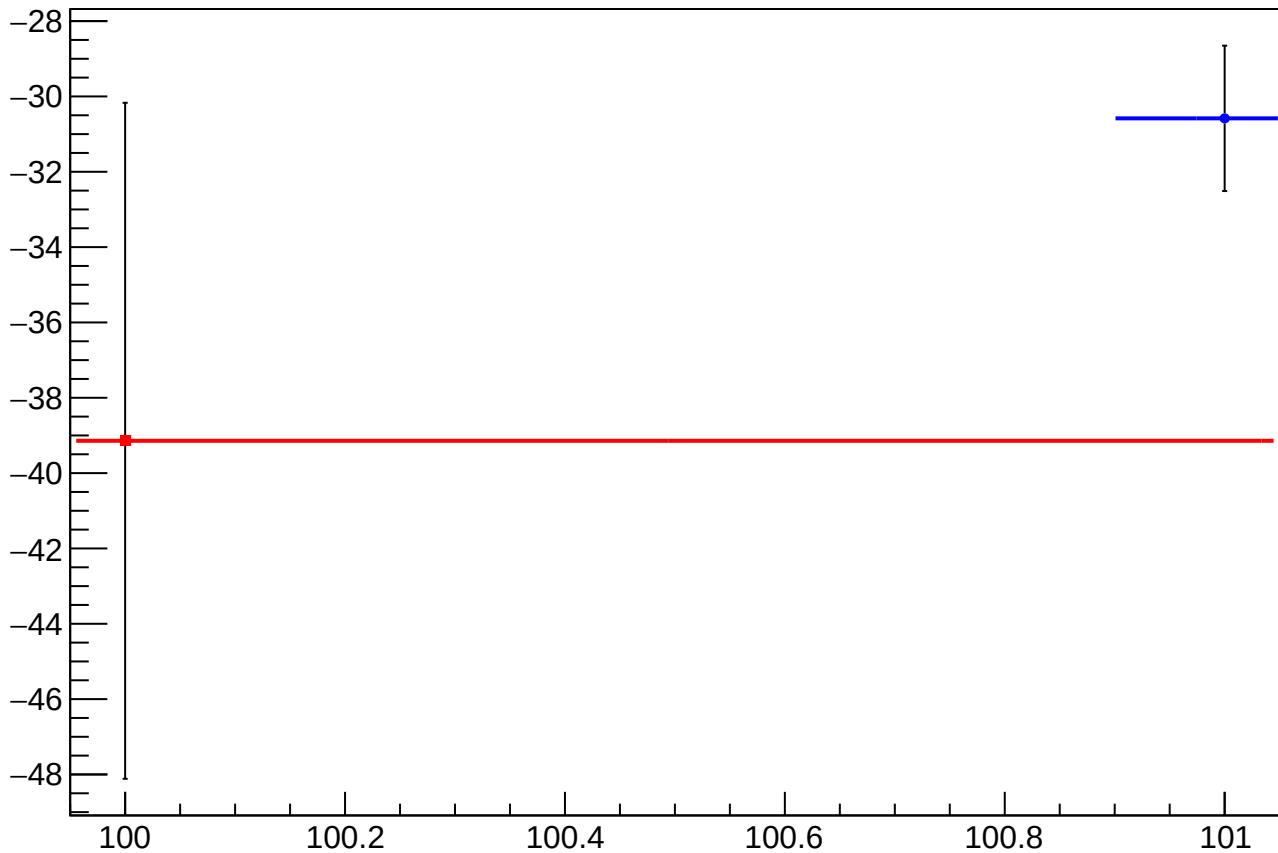
Right: -0.043+/-0.030  $\chi^2/\text{NDF}$ : 4.3/1

In: -0.030+/-0.031  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.043+/-0.030  $\chi^2/\text{NDF}$ : 4.3/1

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -30.582+/-1.930  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -39.142+/-8.974  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

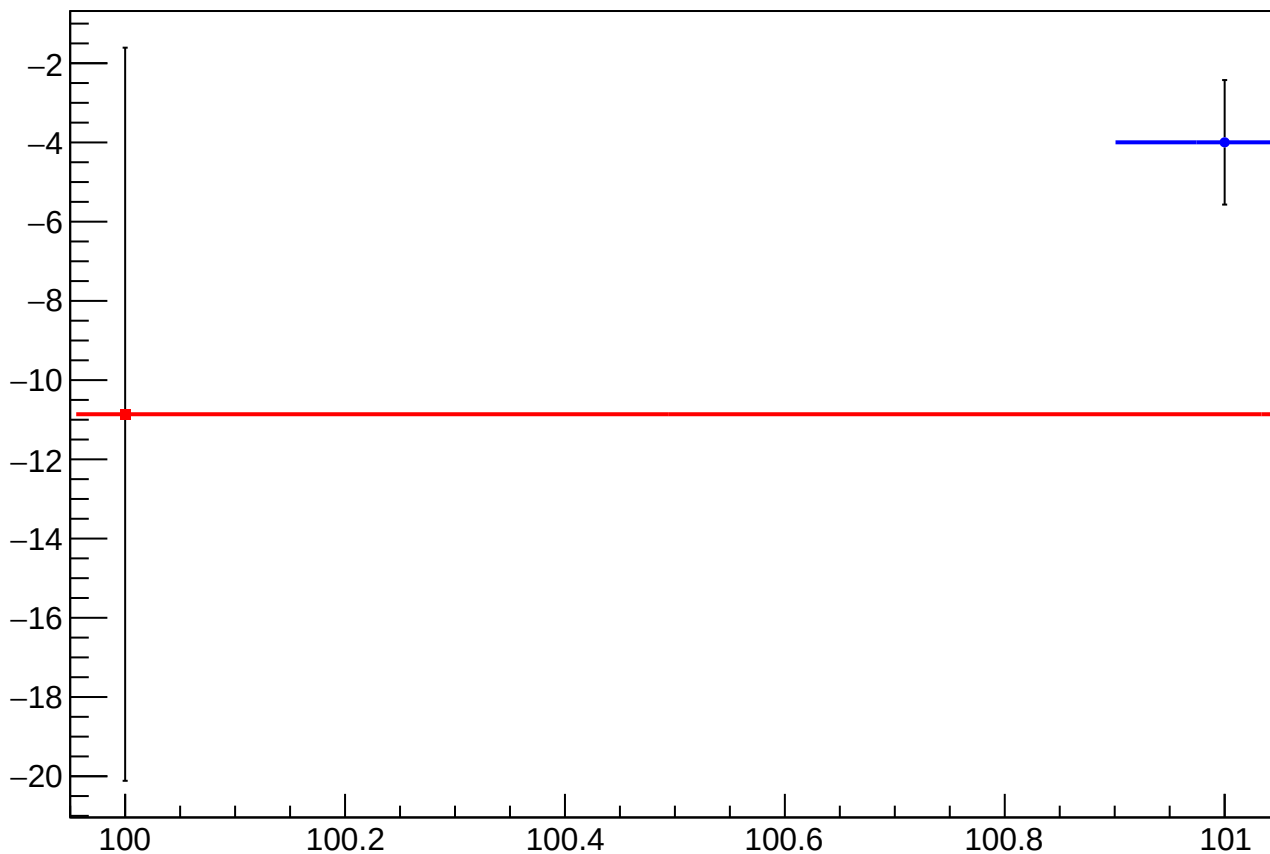
Right: -30.960+/-1.886  $\chi^2/\text{NDF}$ : 0.9/1

In: -30.582+/-1.930  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -30.960+/-1.886  $\chi^2/\text{NDF}$ : 0.9/1

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.997+/-1.572  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.861+/-9.254  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

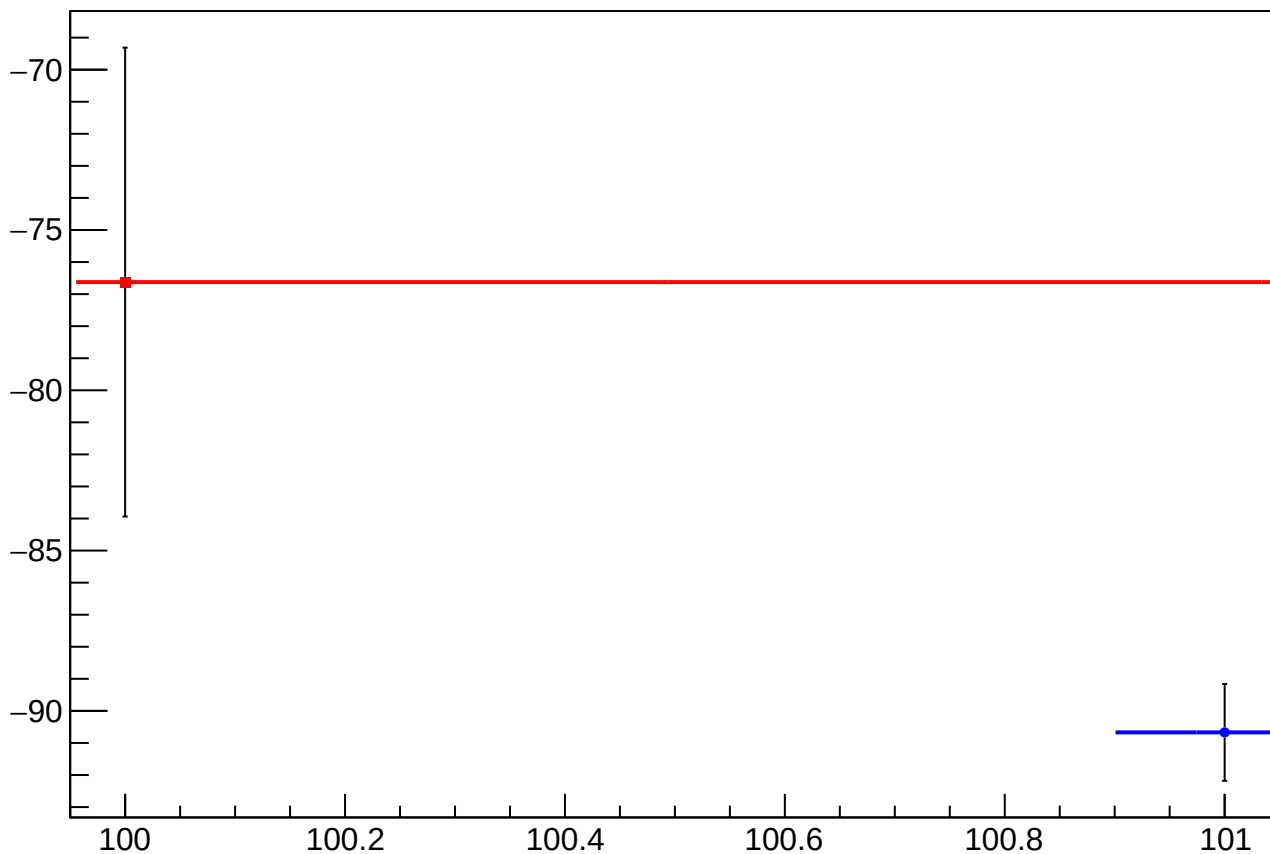
Right: -4.189+/-1.550  $\chi^2/\text{NDF}$ : 0.5/1

In: -3.997+/-1.572  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.189+/-1.550  $\chi^2/\text{NDF}$ : 0.5/1

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -90.671+/-1.510  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -76.626+/-7.313  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

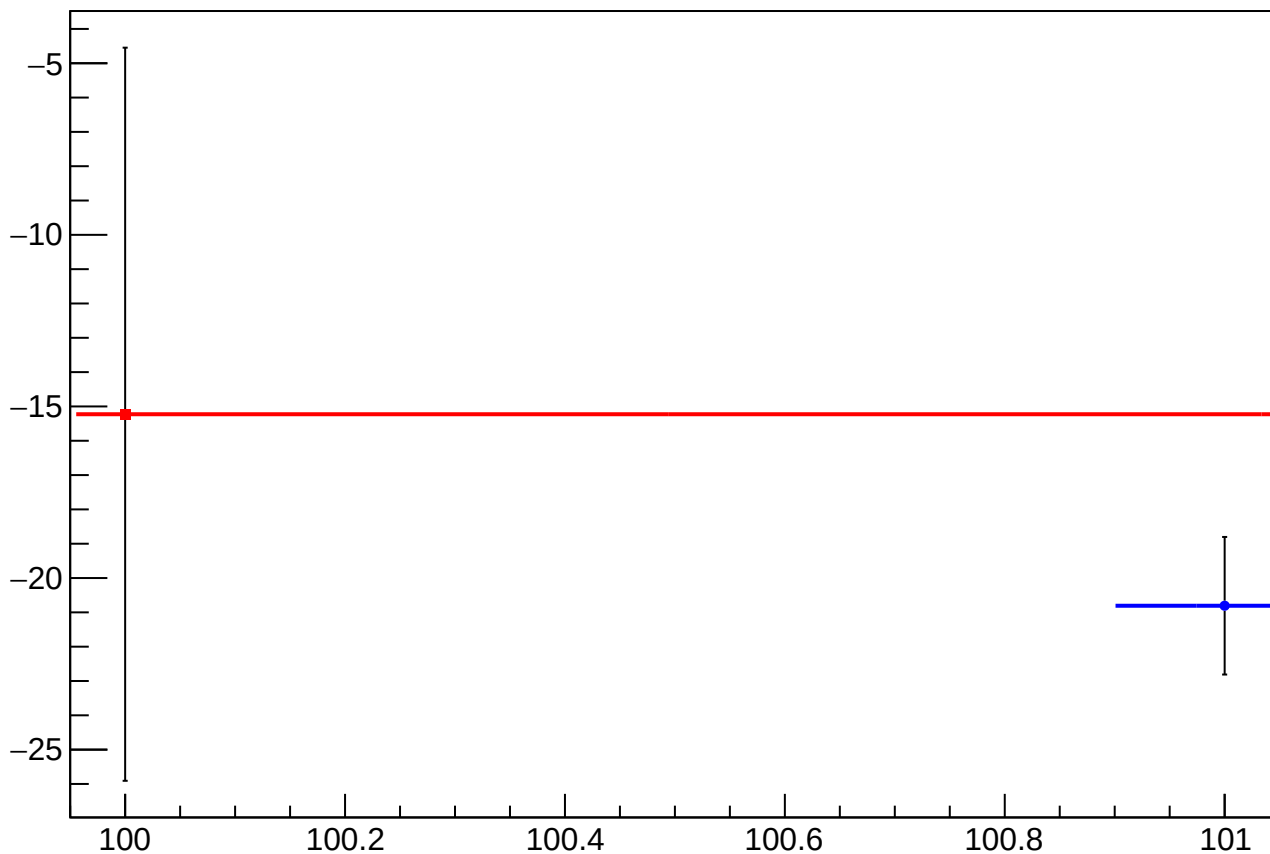
Right: -90.096+/-1.479  $\chi^2/\text{NDF}$ : 3.5/1

In: -90.671+/-1.510  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -90.096+/-1.479  $\chi^2/\text{NDF}$ : 3.5/1

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -20.807 $\pm$ 2.004  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -15.227 $\pm$ 10.681  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

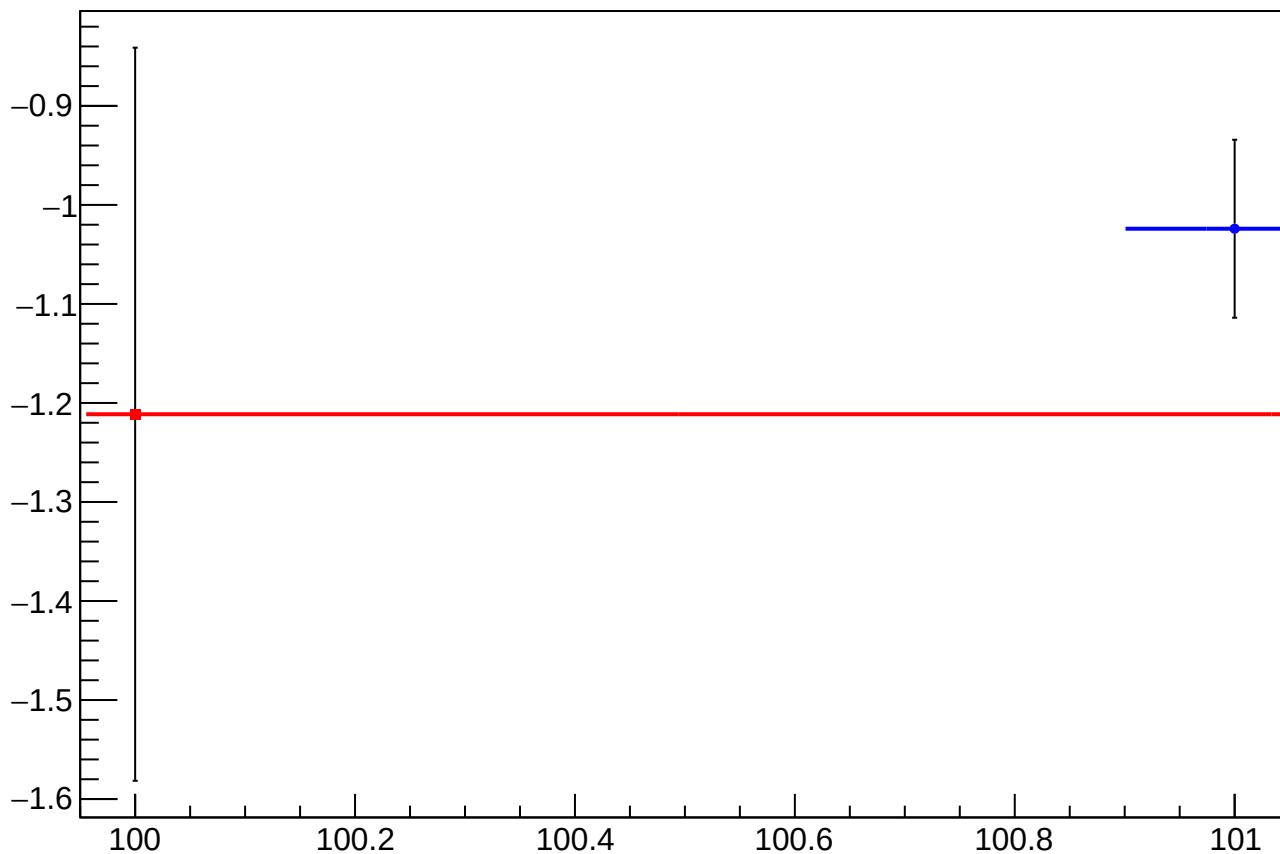
Right: -20.618 $\pm$ 1.970  $\chi^2$ /NDF: 0.3/1

In: -20.807 $\pm$ 2.004  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -20.618 $\pm$ 1.970  $\chi^2$ /NDF: 0.3/1

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -1.024+/-0.090  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.211+/-0.370  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -1.034+/-0.087  $\chi^2/\text{NDF}$ : 0.2/1

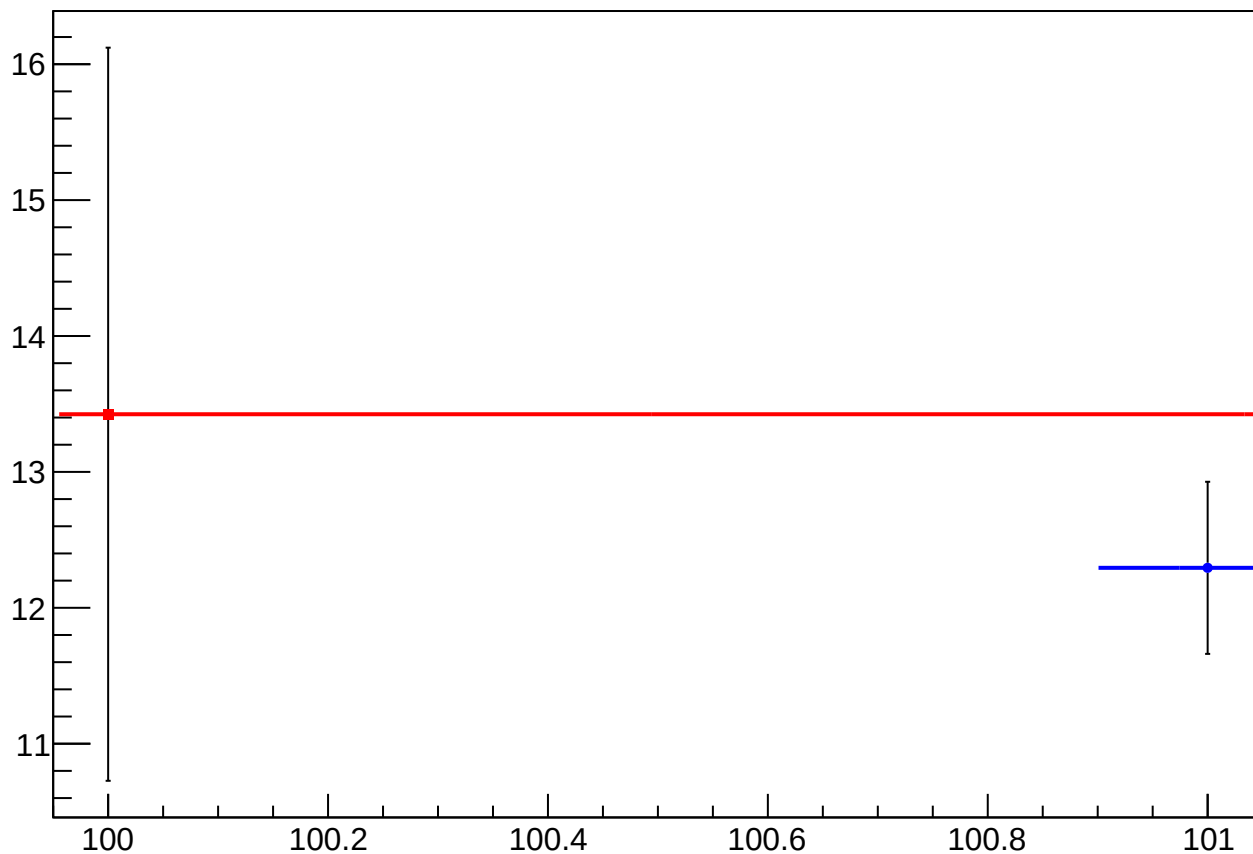
In: -1.024+/-0.090  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.034+/-0.087  $\chi^2/\text{NDF}$ : 0.2/1



reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 12.294 $\pm$ 0.633  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 13.424 $\pm$ 2.697  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

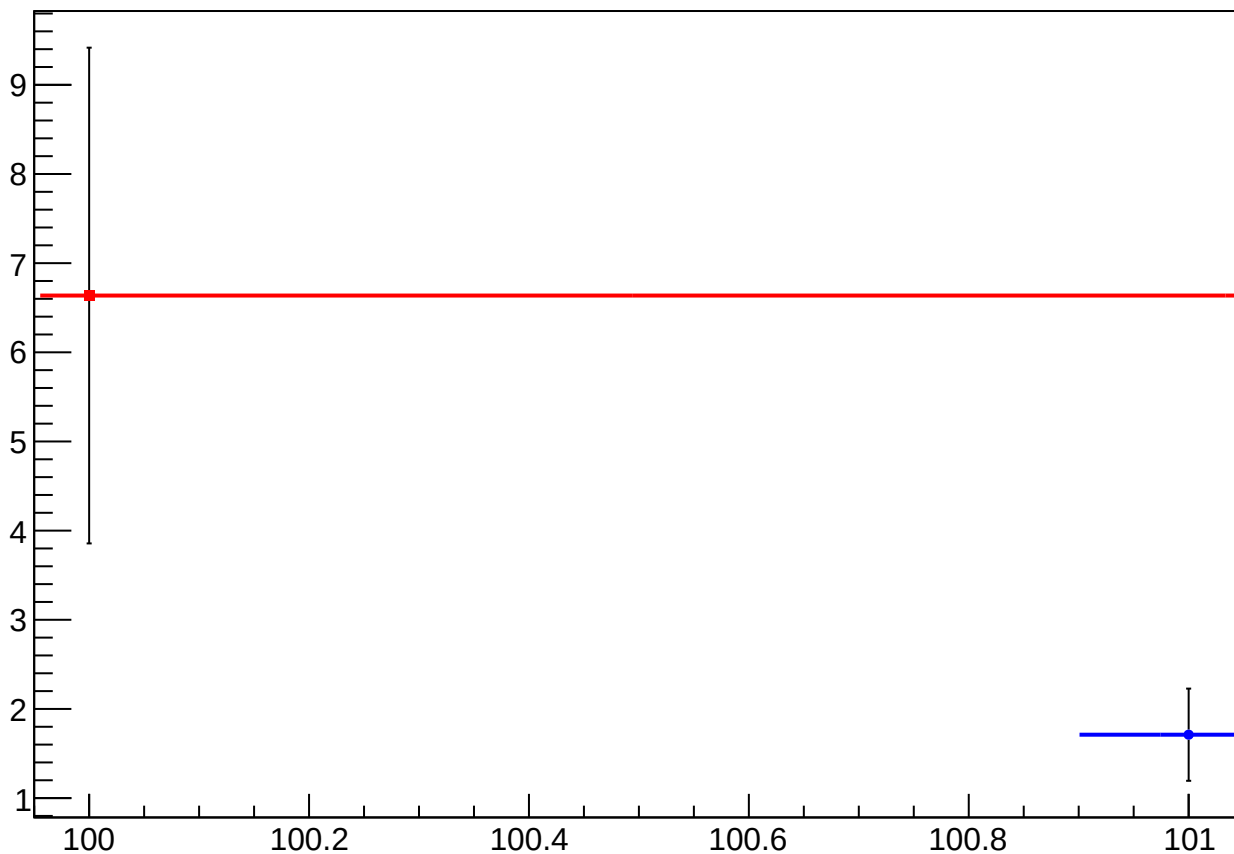
Right: 12.353 $\pm$ 0.616  $\chi^2$ /NDF: 0.2/1

In: 12.294 $\pm$ 0.633  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 12.353 $\pm$ 0.616  $\chi^2$ /NDF: 0.2/1

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.711 $\pm$ 0.517  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6.637 $\pm$ 2.780  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

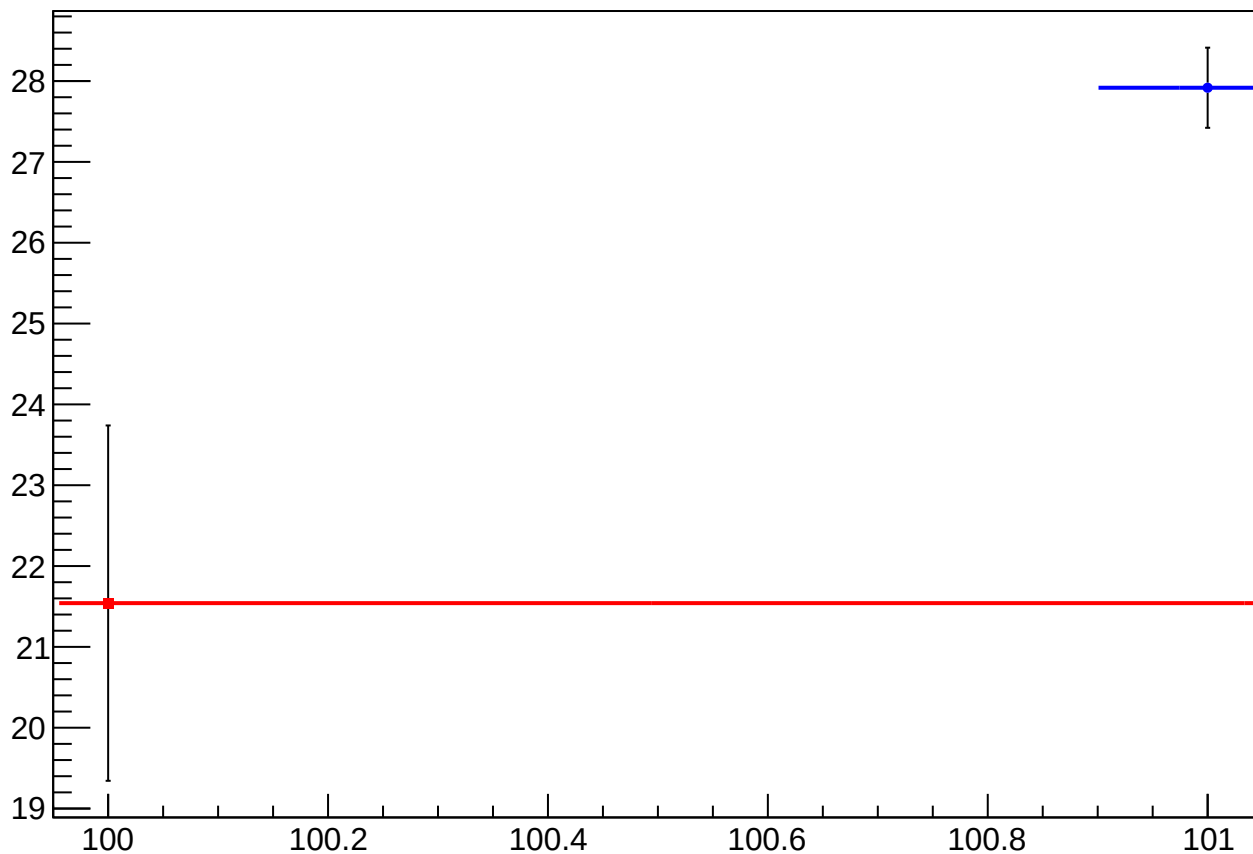
Right: 1.876 $\pm$ 0.508  $\chi^2$ /NDF: 3.0/1

In: 1.711 $\pm$ 0.517  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.876 $\pm$ 0.508  $\chi^2$ /NDF: 3.0/1

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 27.917 $\pm$ 0.496  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 21.541 $\pm$ 2.198  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

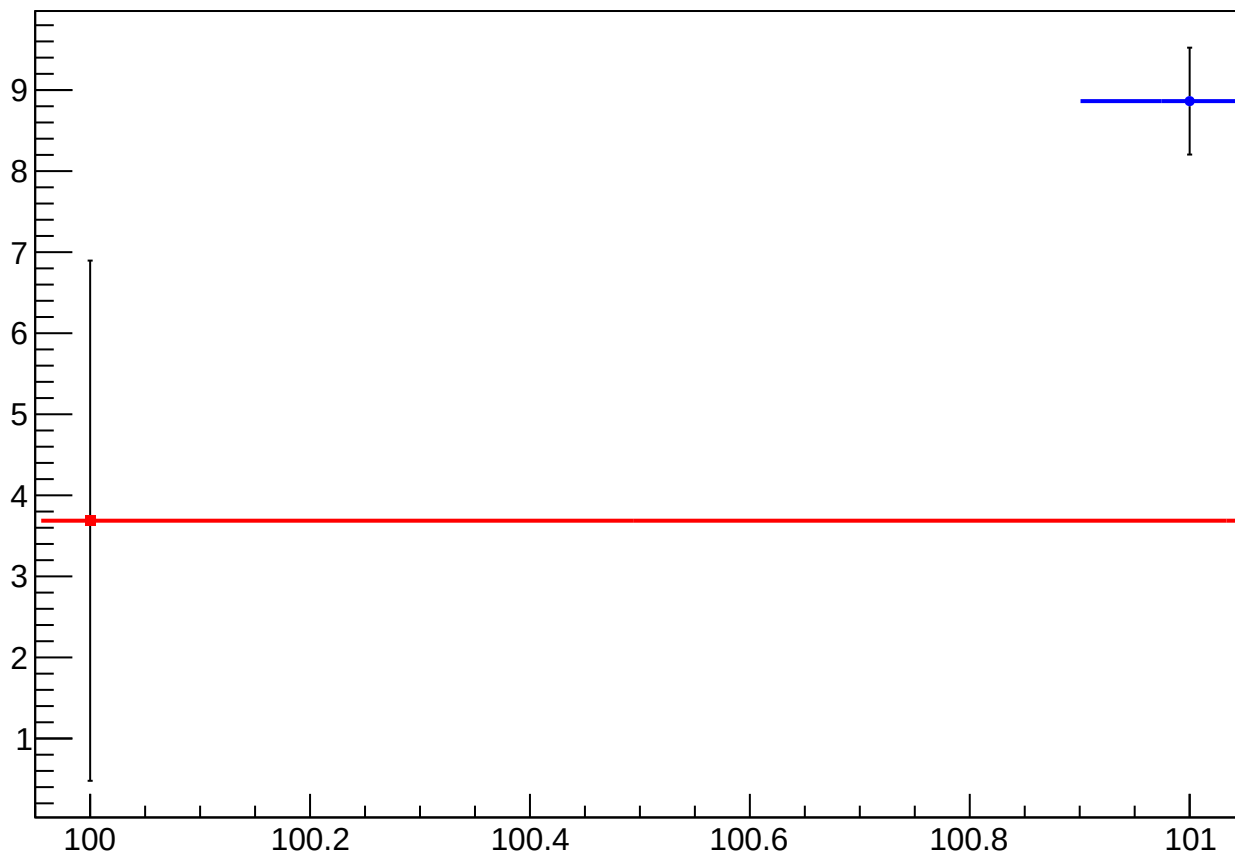
Right: 27.609 $\pm$ 0.484  $\chi^2$ /NDF: 8.0/1

In: 27.917 $\pm$ 0.496  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.609 $\pm$ 0.484  $\chi^2$ /NDF: 8.0/1

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 8.864 $\pm$ 0.659  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.687 $\pm$ 3.209  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

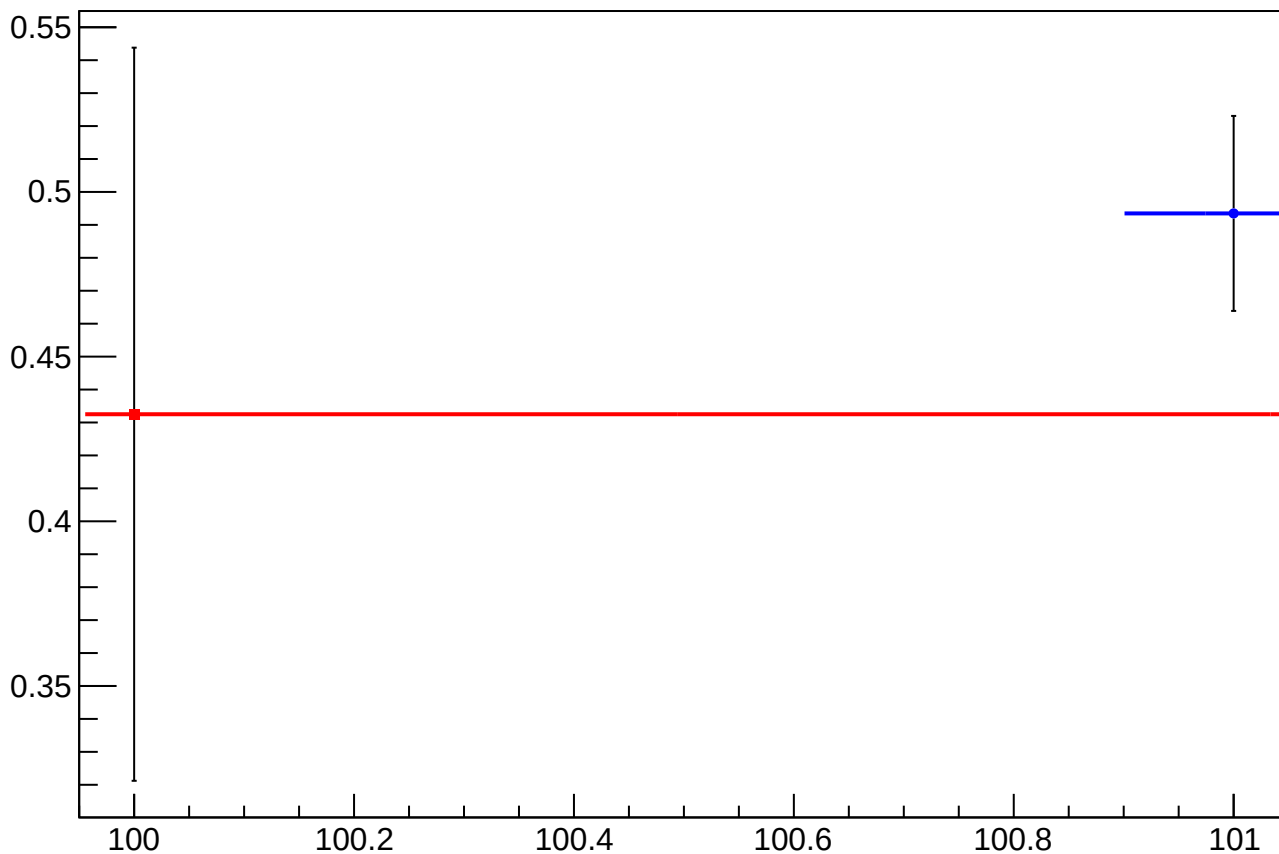
Right: 8.654 $\pm$ 0.646  $\chi^2$ /NDF: 2.5/1

In: 8.864 $\pm$ 0.659  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 8.654 $\pm$ 0.646  $\chi^2$ /NDF: 2.5/1

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.493+/-0.030  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.433+/-0.111  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

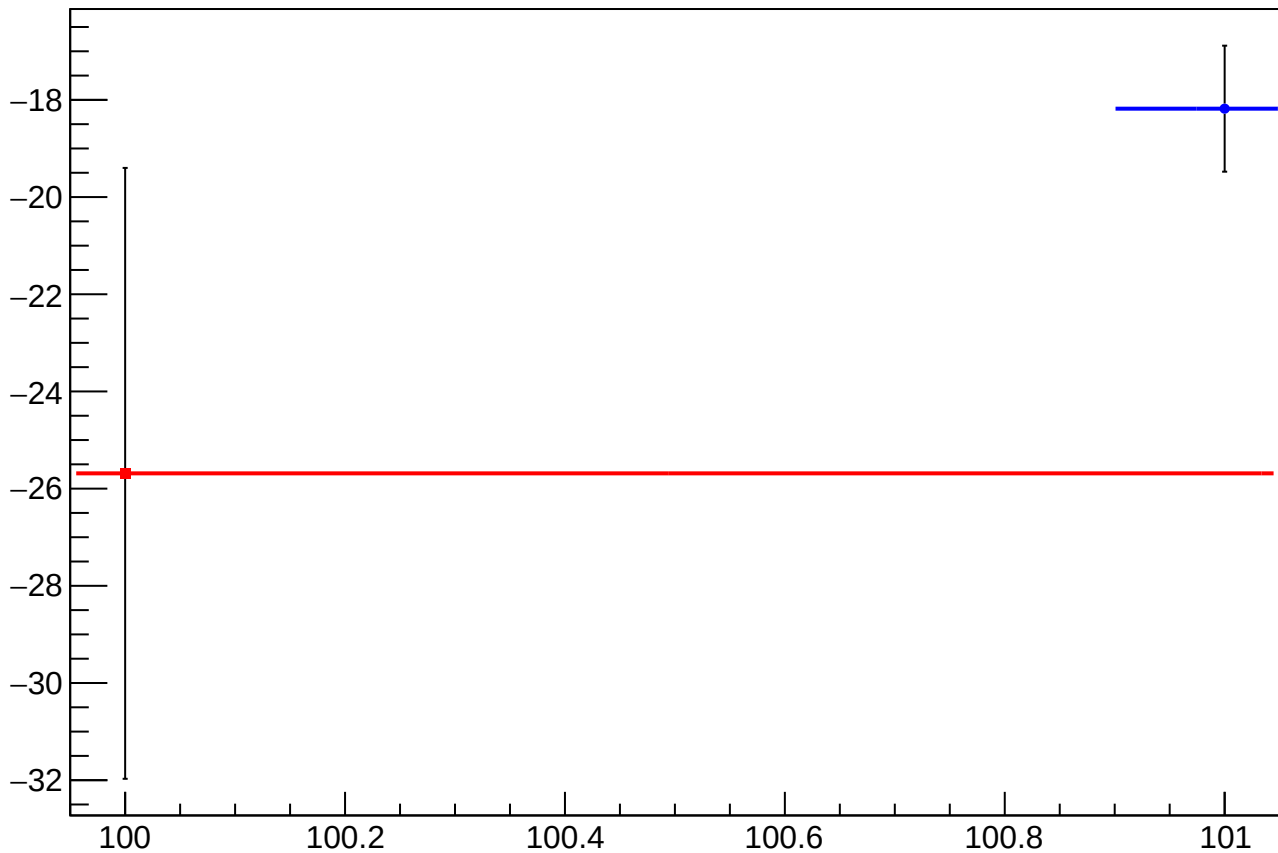
Right: 0.489+/-0.029  $\chi^2/\text{NDF}$ : 0.3/1

In: 0.493+/-0.030  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.489+/-0.029  $\chi^2/\text{NDF}$ : 0.3/1

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -18.181 $\pm$ 1.297  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -25.686 $\pm$ 6.286  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

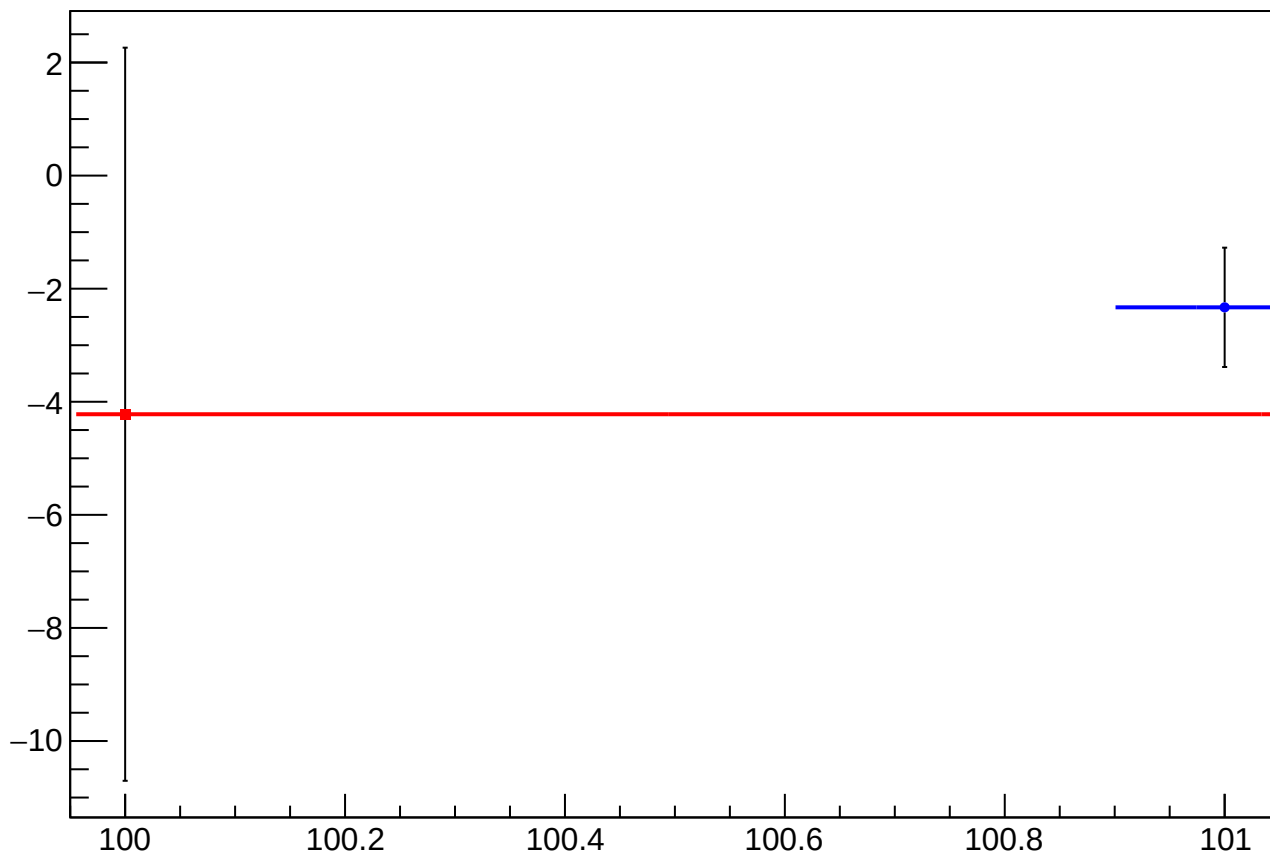
Right: -18.487 $\pm$ 1.270  $\chi^2$ /NDF: 1.4/1

In: -18.181 $\pm$ 1.297  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -18.487 $\pm$ 1.270  $\chi^2$ /NDF: 1.4/1

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -2.330+/-1.055  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.221+/-6.483  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

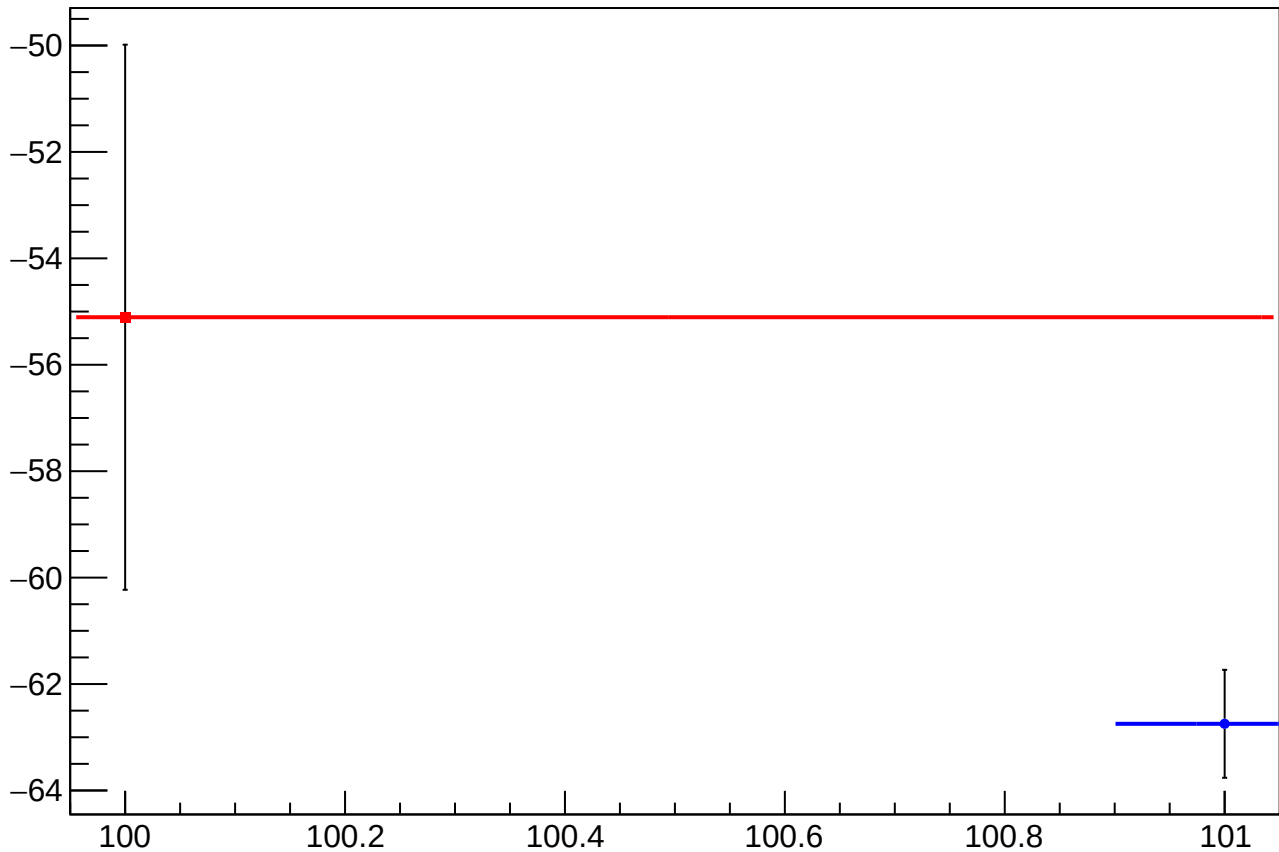
Right: -2.379+/-1.042  $\chi^2/\text{NDF}$ : 0.1/1

In: -2.330+/-1.055  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.379+/-1.042  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -62.747 $\pm$ 1.015  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -55.106 $\pm$ 5.122  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -62.459 $\pm$ 0.995  $\chi^2$ /NDF: 2.1/1

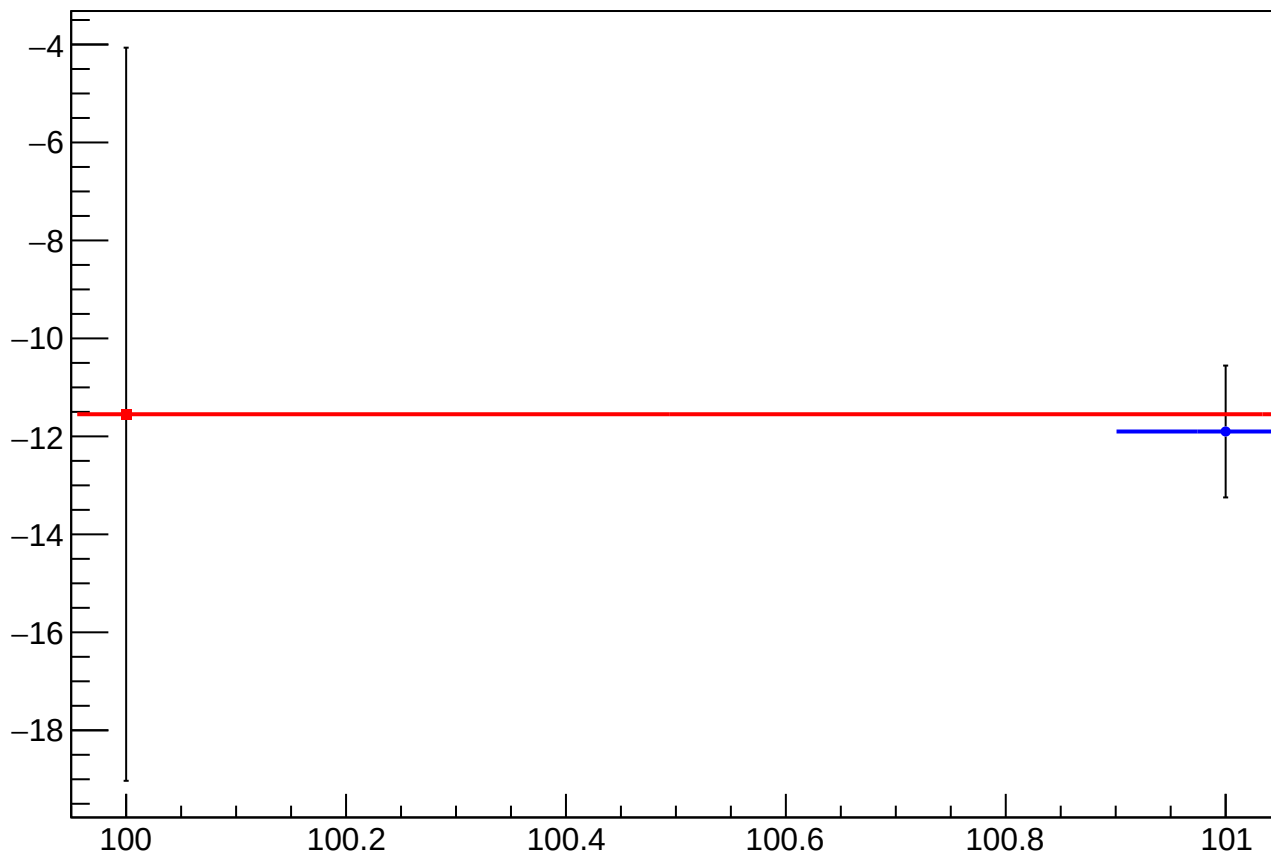
In: -62.747 $\pm$ 1.015  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -62.459 $\pm$ 0.995  $\chi^2$ /NDF: 2.1/1



reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -11.900 $\pm$ 1.346  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.548 $\pm$ 7.483  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

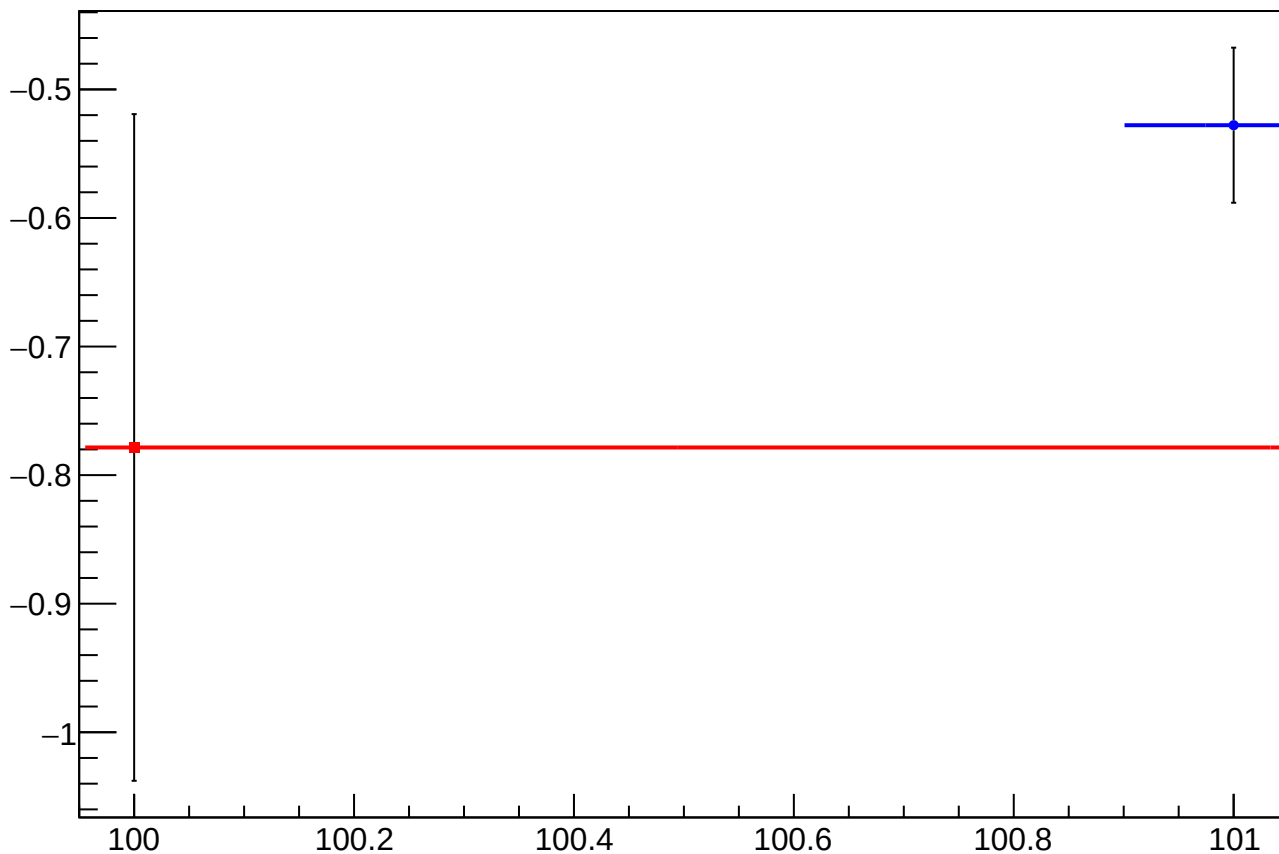
Right: -11.889 $\pm$ 1.324  $\chi^2$ /NDF: 0.0/1

In: -11.900 $\pm$ 1.346  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.889 $\pm$ 1.324  $\chi^2$ /NDF: 0.0/1

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.528+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.778+/-0.259  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

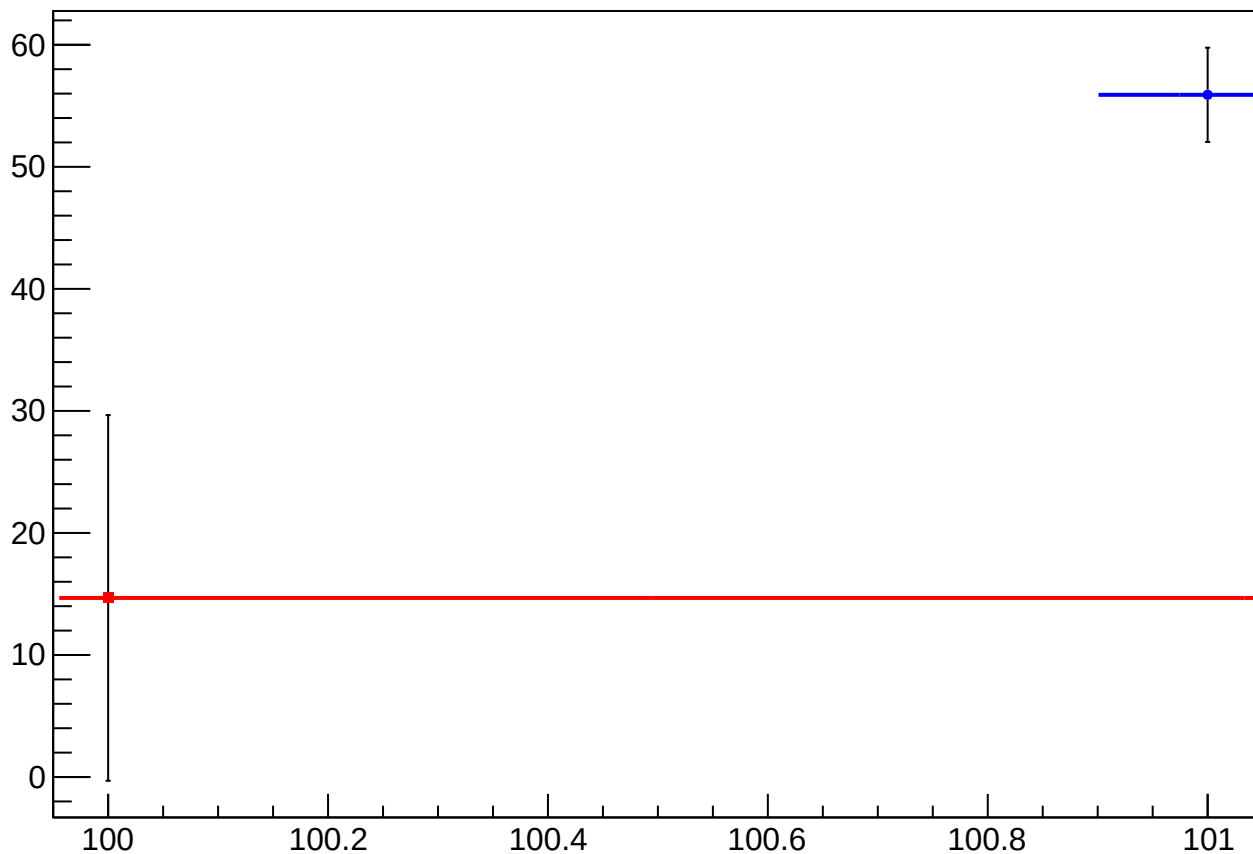
Right: -0.541+/-0.059  $\chi^2/\text{NDF}$ : 0.9/1

In: -0.528+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.541+/-0.059  $\chi^2/\text{NDF}$ : 0.9/1

reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 55.901 $\pm$ 3.864  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 14.675 $\pm$ 14.984  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

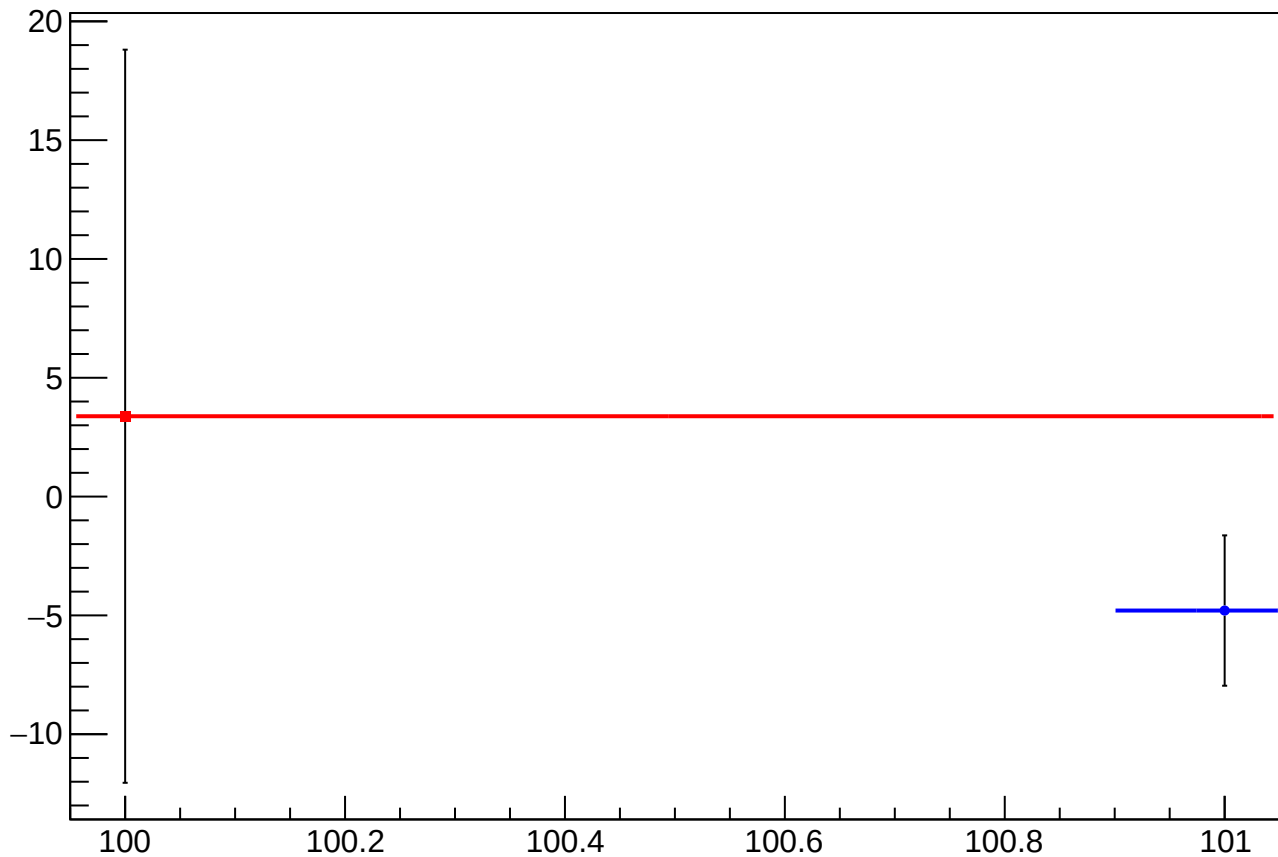
Right: 53.330 $\pm$ 3.741  $\chi^2$ /NDF: 7.1/1

In: 55.901 $\pm$ 3.864  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.330 $\pm$ 3.741  $\chi^2$ /NDF: 7.1/1

reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -4.796+/-3.164  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.381+/-15.426  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

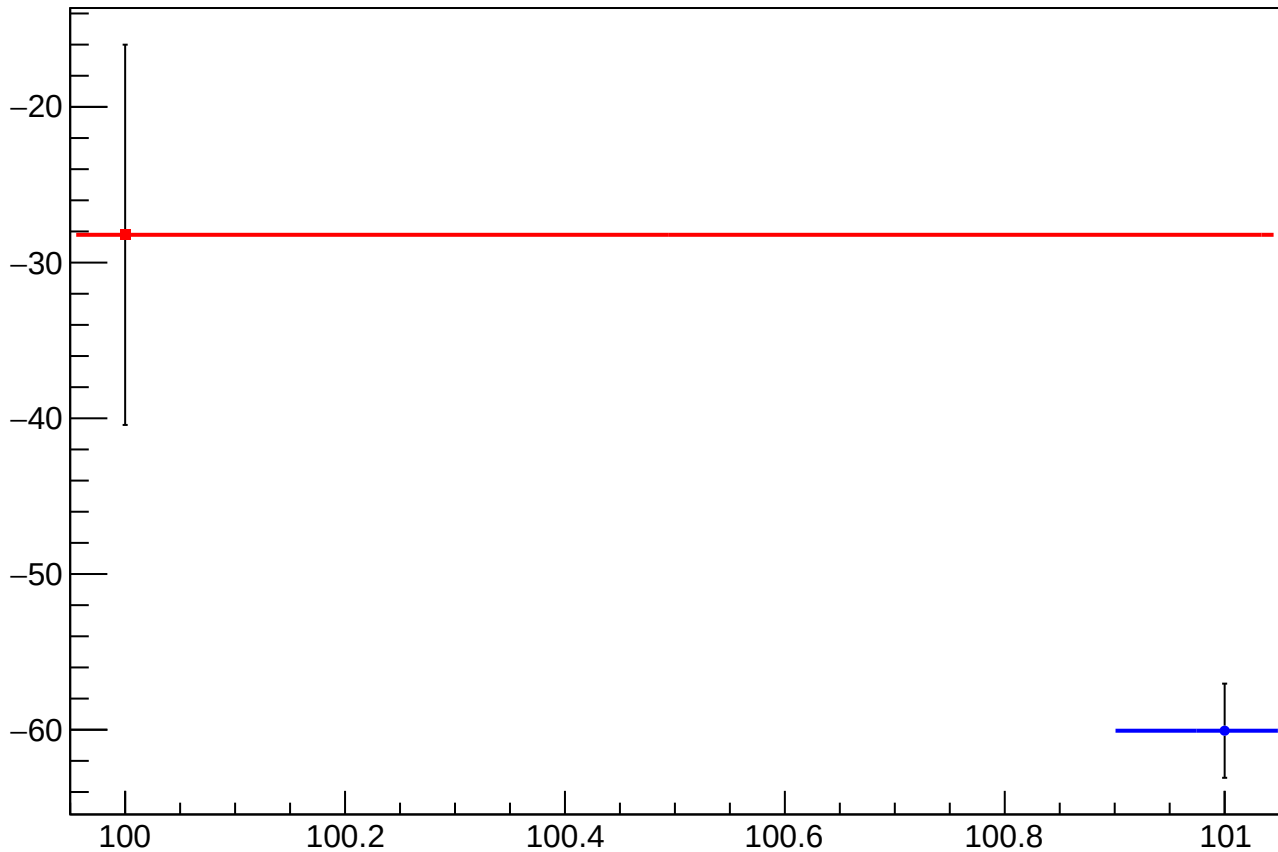
Right: -4.466+/-3.099  $\chi^2/\text{NDF}$ : 0.3/1

In: -4.796+/-3.164  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.466+/-3.099  $\chi^2/\text{NDF}$ : 0.3/1

reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -60.064 $\pm$ 3.024  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -28.215 $\pm$ 12.211  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

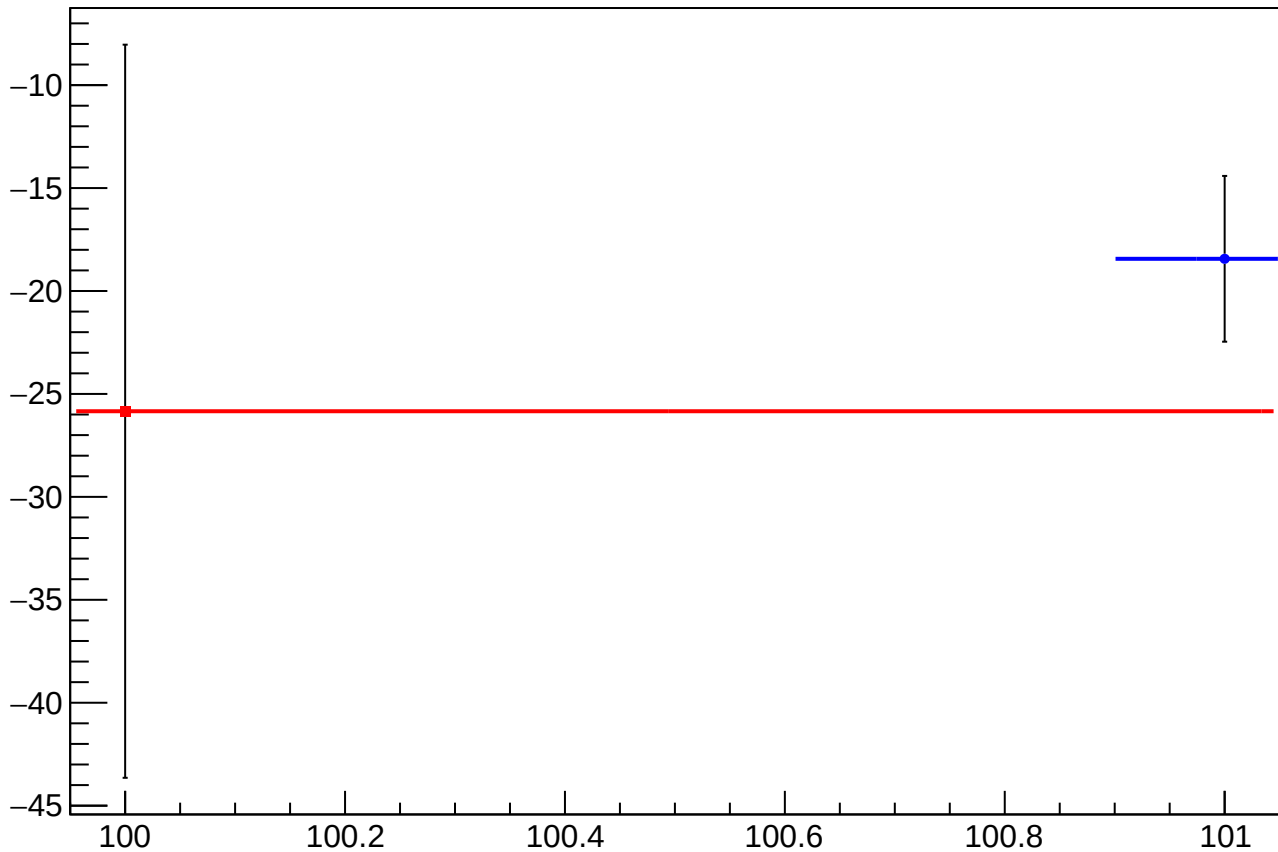
Right: -58.224 $\pm$ 2.935  $\chi^2$ /NDF: 6.4/1

In: -60.064 $\pm$ 3.024  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -58.224 $\pm$ 2.935  $\chi^2$ /NDF: 6.4/1

reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -18.437 $\pm$ 4.026  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -25.840 $\pm$ 17.805  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

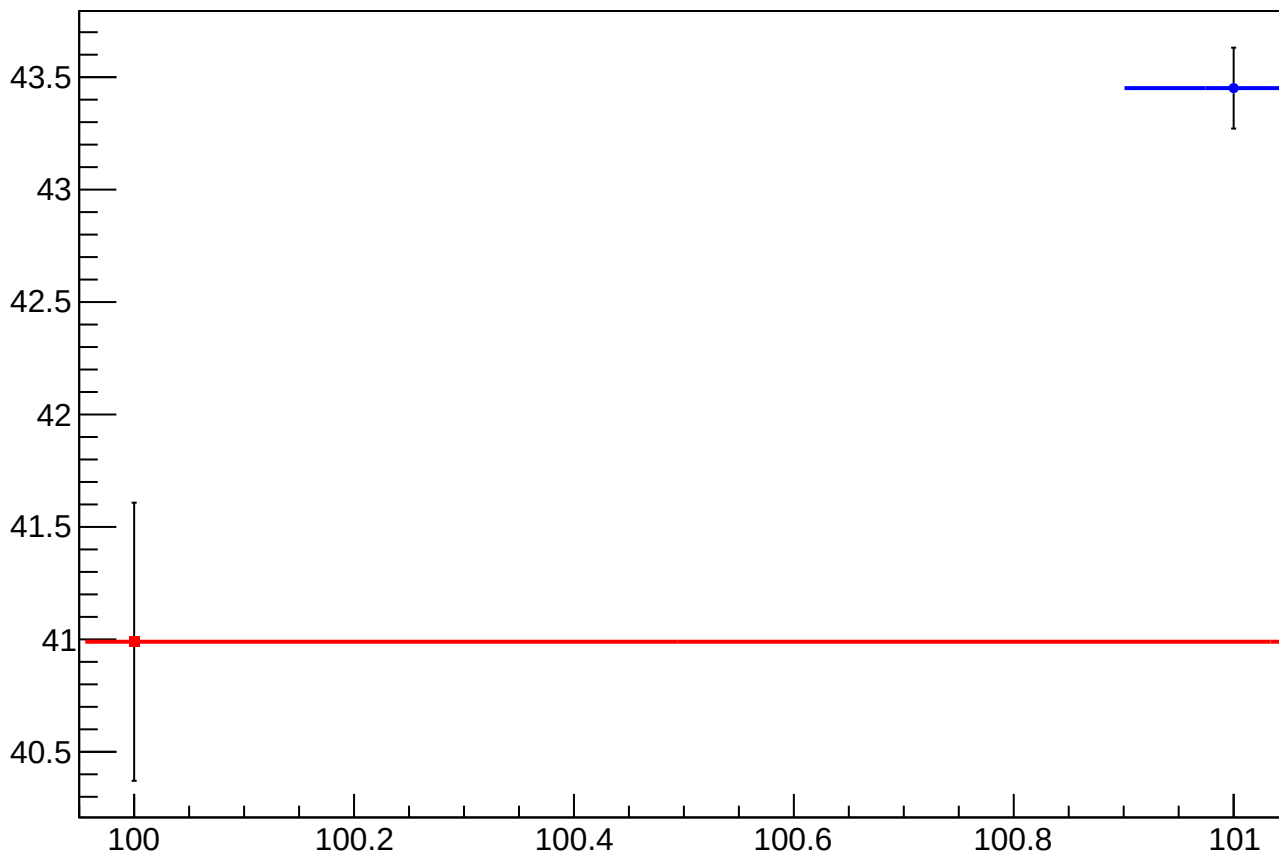
Right: -18.797 $\pm$ 3.927  $\chi^2$ /NDF: 0.2/1

In: -18.437 $\pm$ 4.026  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -18.797 $\pm$ 3.927  $\chi^2$ /NDF: 0.2/1

reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 43.451+/-0.180  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 40.990+/-0.618  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

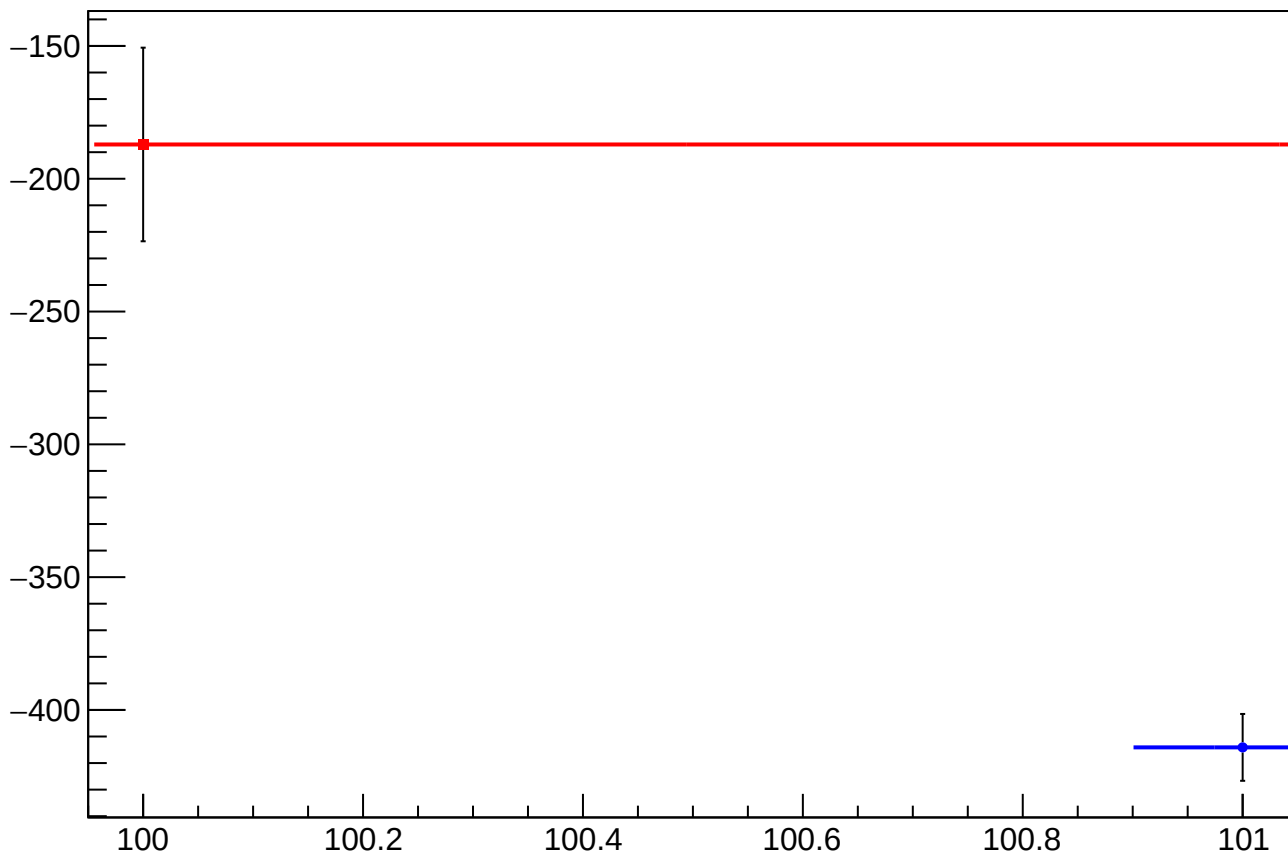
Right: 43.259+/-0.173  $\chi^2$ /NDF: 14.6/1

In: 43.451+/-0.180  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 43.259+/-0.173  $\chi^2$ /NDF: 14.6/1

reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -414.094+/-12.583  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -187.095+/-36.448  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -389.921+/-11.894  $\chi^2/\text{NDF}$ : 34.7/1

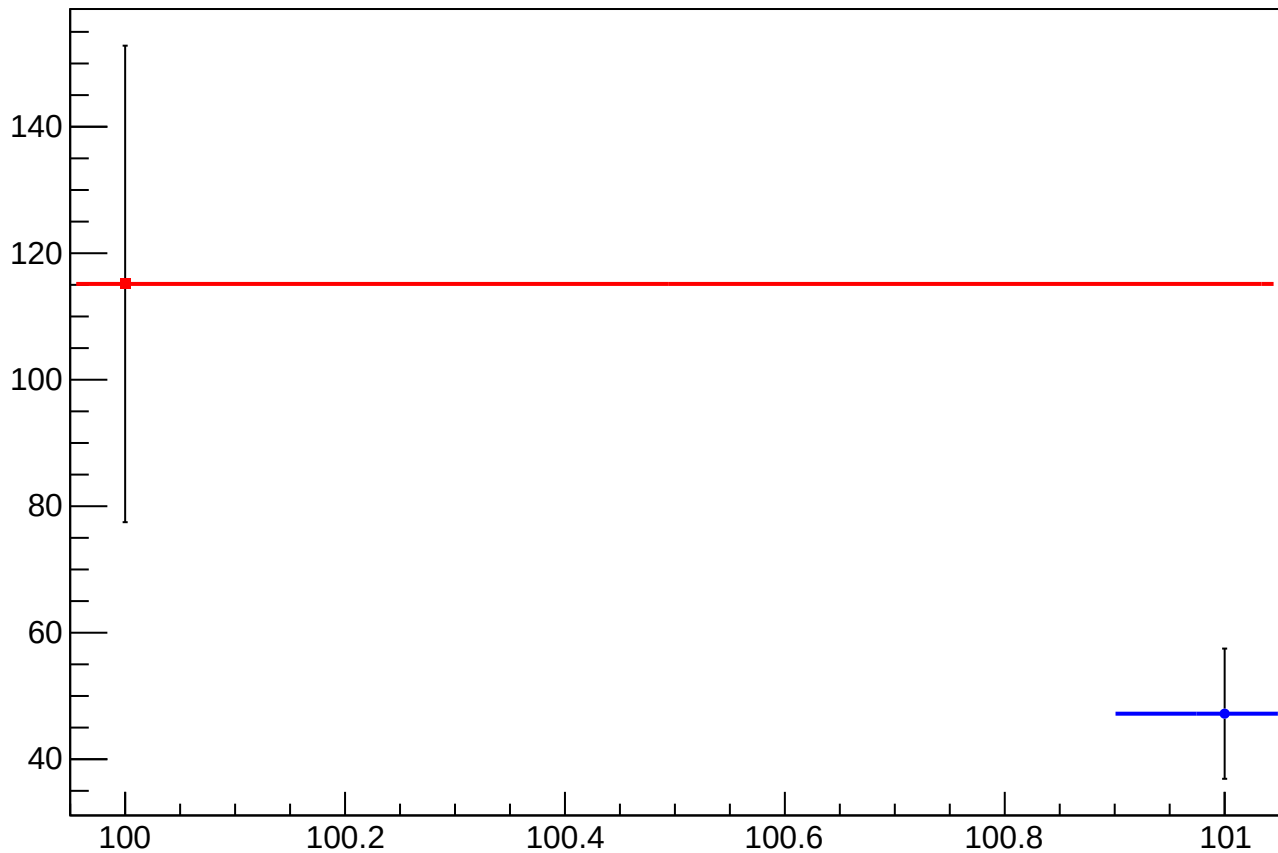
In: -414.094+/-12.583  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -389.921+/-11.894  $\chi^2/\text{NDF}$ : 34.7/1



reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 47.198+/-10.294  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 115.147+/-37.670  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

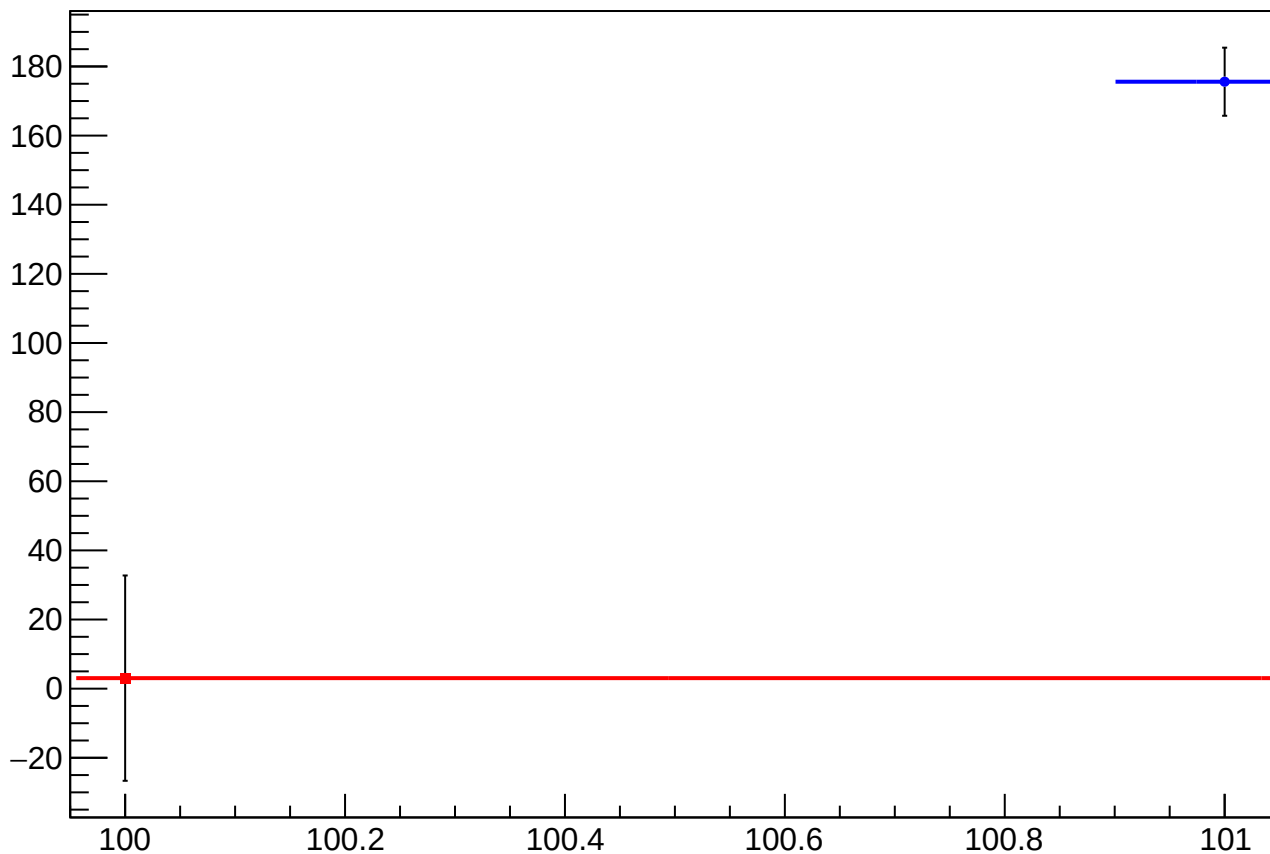
Right: 51.920+/-9.930  $\chi^2/\text{NDF}$ : 3.0/1

In: 47.198+/-10.294  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 51.920+/-9.930  $\chi^2/\text{NDF}$ : 3.0/1

reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 175.587+/-9.850  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.042+/-29.699  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

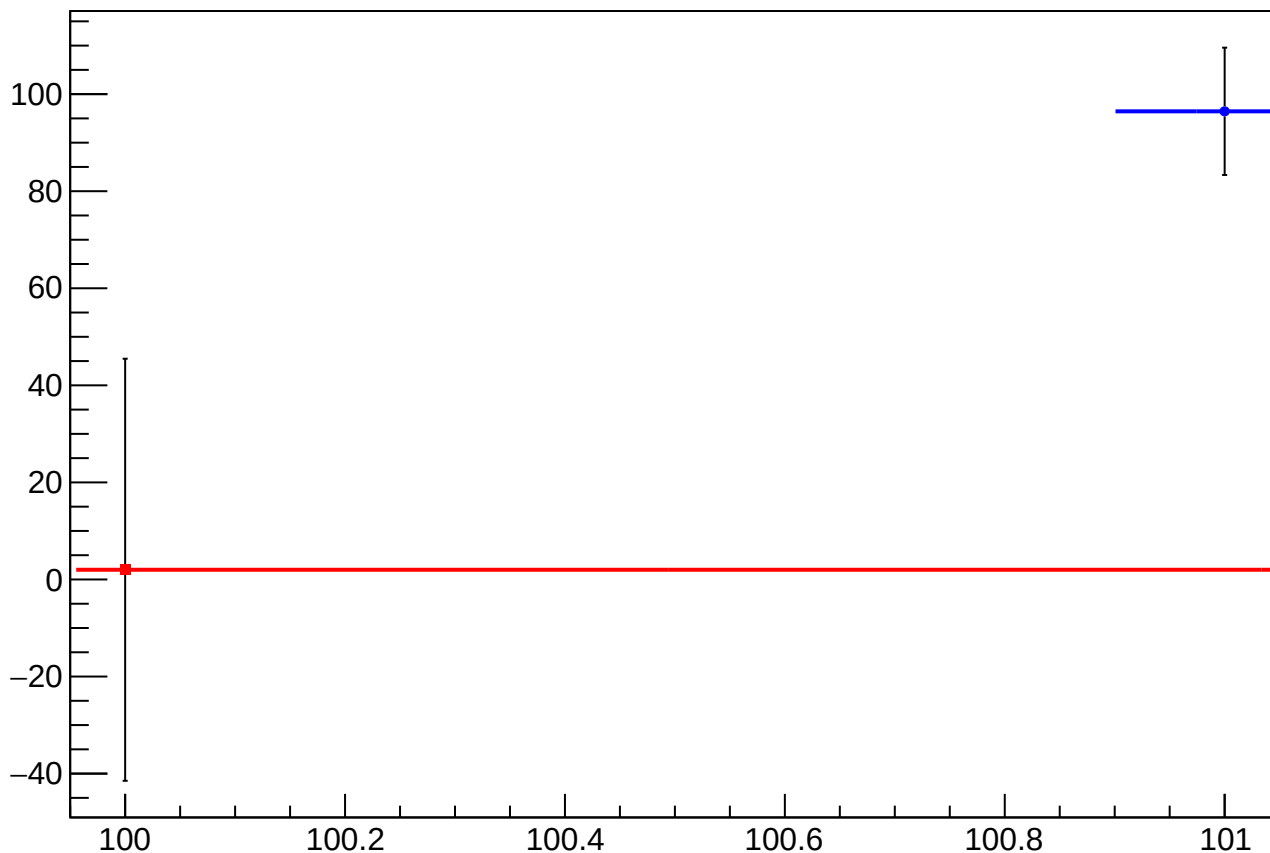
Right: 158.488+/-9.349  $\chi^2/\text{NDF}$ : 30.4/1

In: 175.587+/-9.850  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 158.488+/-9.349  $\chi^2/\text{NDF}$ : 30.4/1

reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 96.457+/-13.117  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.000+/-43.482  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

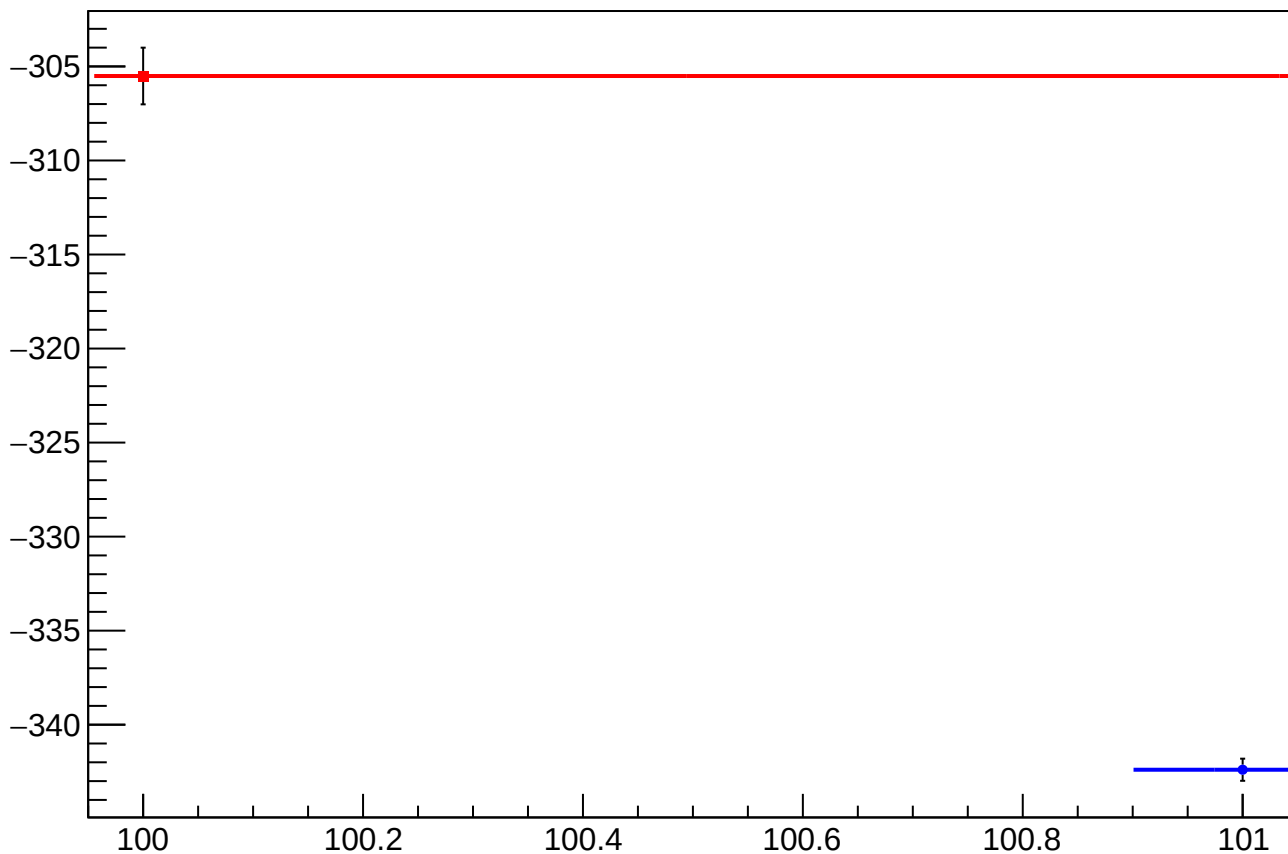
Right: 88.579+/-12.558  $\chi^2/\text{NDF}$ : 4.3/1

In: 96.457+/-13.117  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 88.579+/-12.558  $\chi^2/\text{NDF}$ : 4.3/1

reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -342.395 $\pm$ 0.588  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -305.509 $\pm$ 1.507  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

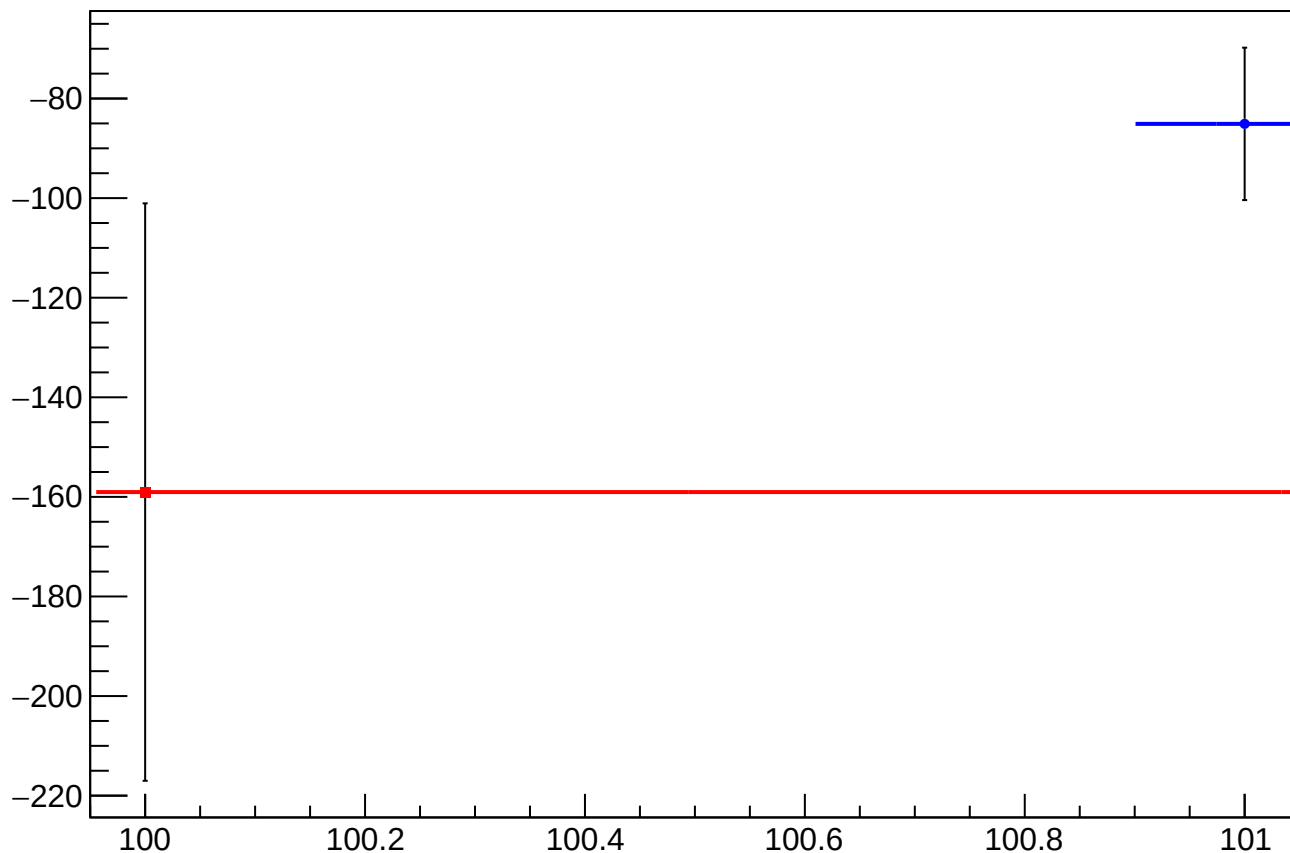
Right: -337.516 $\pm$ 0.548  $\chi^2/\text{NDF}$ : 519.9/1

In: -342.395 $\pm$ 0.588  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -337.516 $\pm$ 0.548  $\chi^2/\text{NDF}$ : 519.9/1

reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -85.091+/-15.304  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -159.035+/-57.983  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

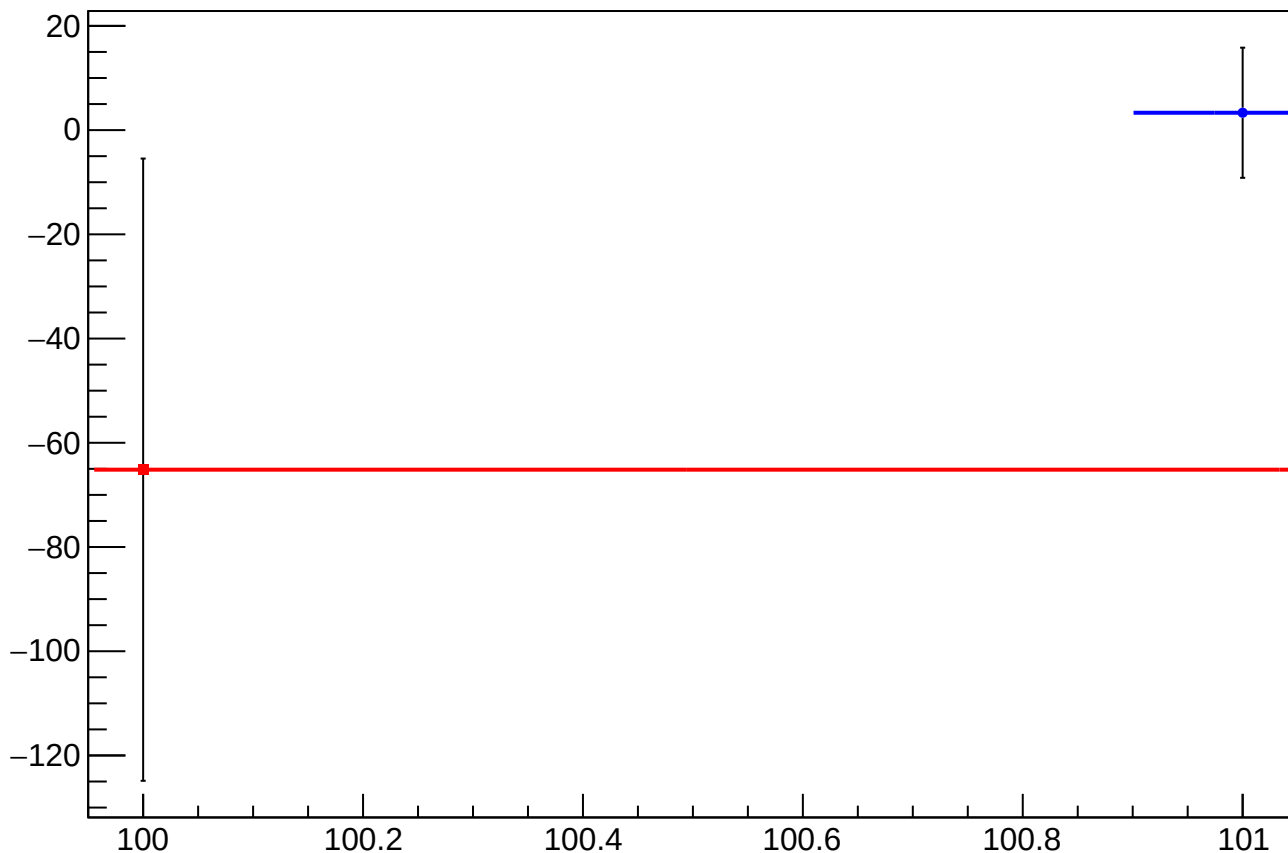
Right: -89.906+/-14.797  $\chi^2$ /NDF: 1.5/1

In: -85.091+/-15.304  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -89.906+/-14.797  $\chi^2$ /NDF: 1.5/1

reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.332 $\pm$ 12.488  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -65.160 $\pm$ 59.703  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

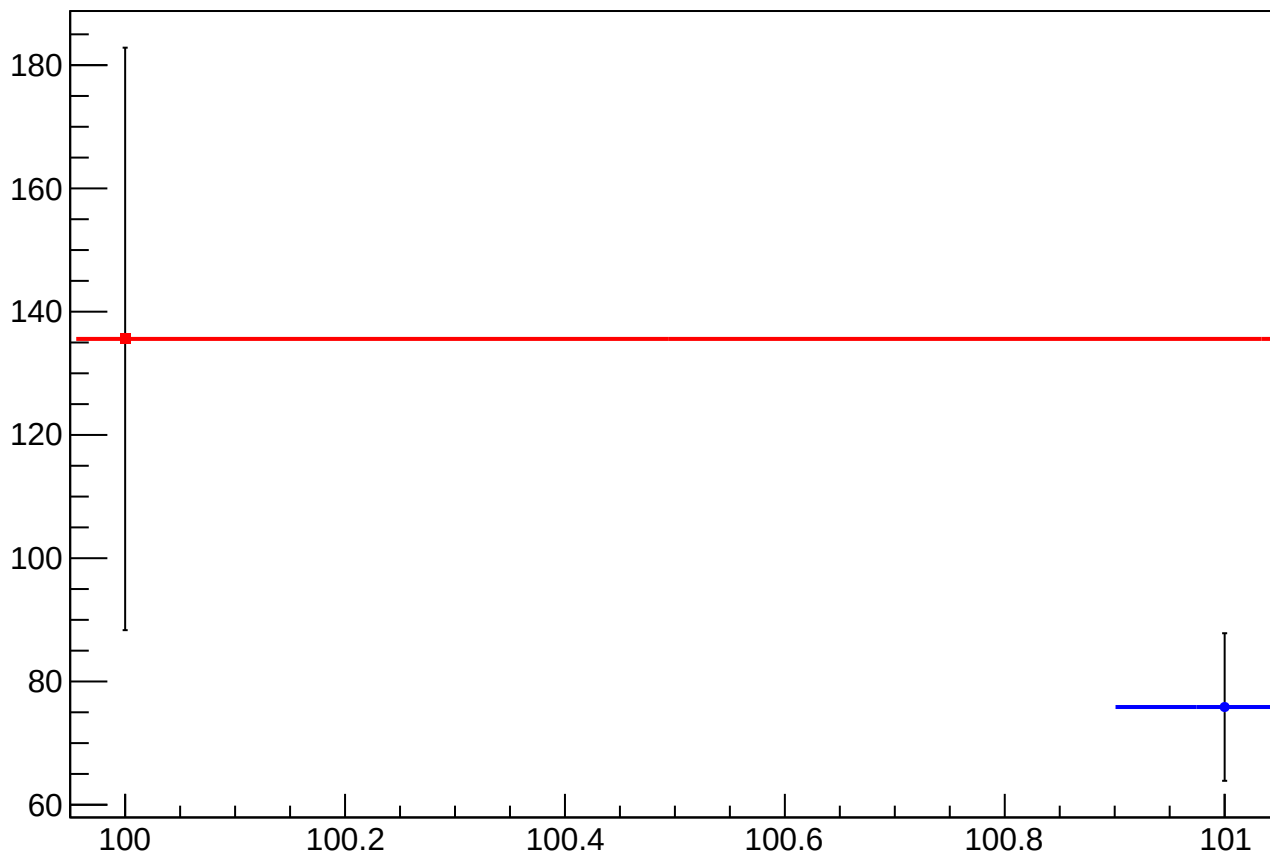
Right: 0.461 $\pm$ 12.223  $\chi^2/\text{NDF}$ : 1.3/1

In: 3.332 $\pm$ 12.488  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.461 $\pm$ 12.223  $\chi^2/\text{NDF}$ : 1.3/1

reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 75.857+/-11.971  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 135.581+/-47.253  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

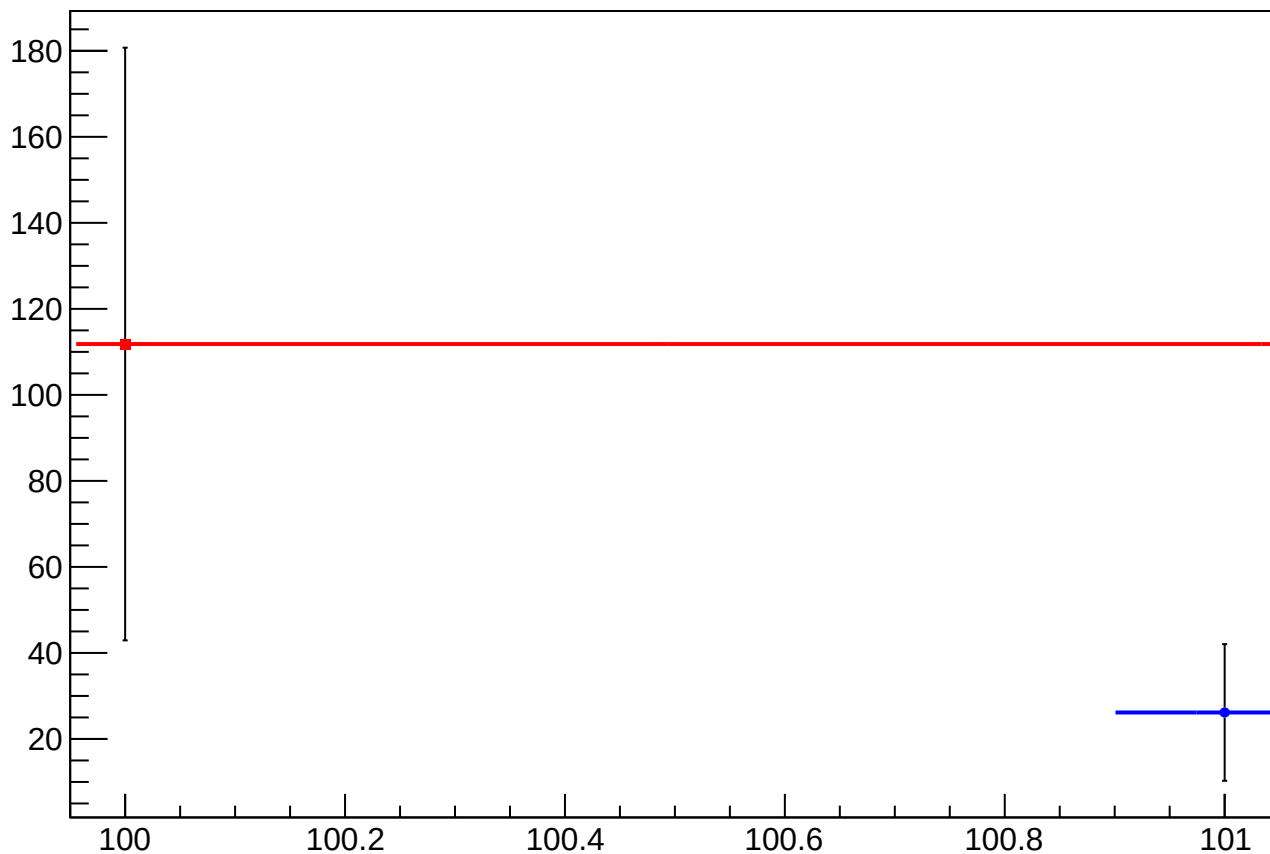
Right: 79.458+/-11.604  $\chi^2/\text{NDF}$ : 1.5/1

In: 75.857+/-11.971  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 79.458+/-11.604  $\chi^2/\text{NDF}$ : 1.5/1

reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 26.156+/-15.887  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 111.824+/-68.909  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 30.480+/-15.481  $\chi^2/\text{NDF}$ : 1.5/1

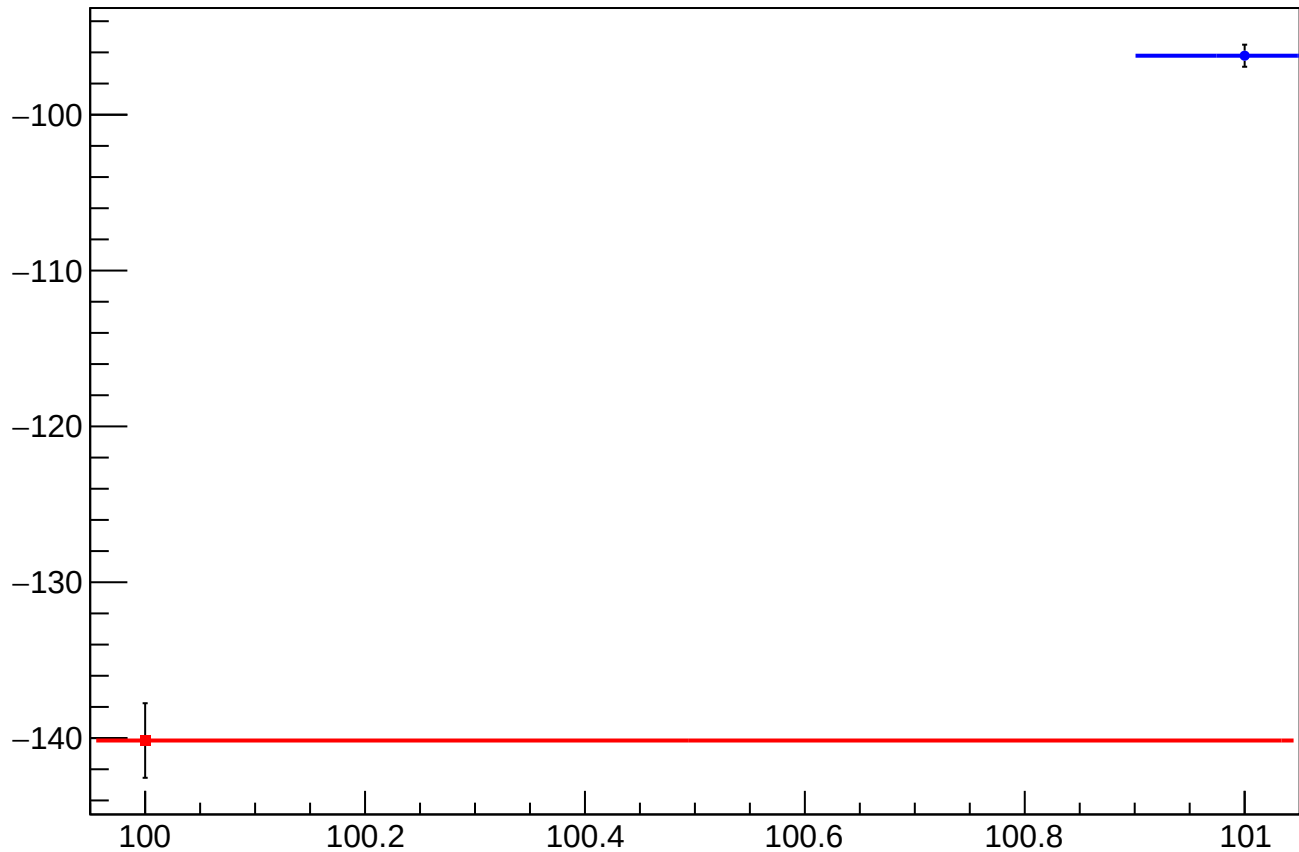
In: 26.156+/-15.887  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.480+/-15.481  $\chi^2/\text{NDF}$ : 1.5/1



reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -96.213 $\pm$ 0.708  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -140.155 $\pm$ 2.393  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

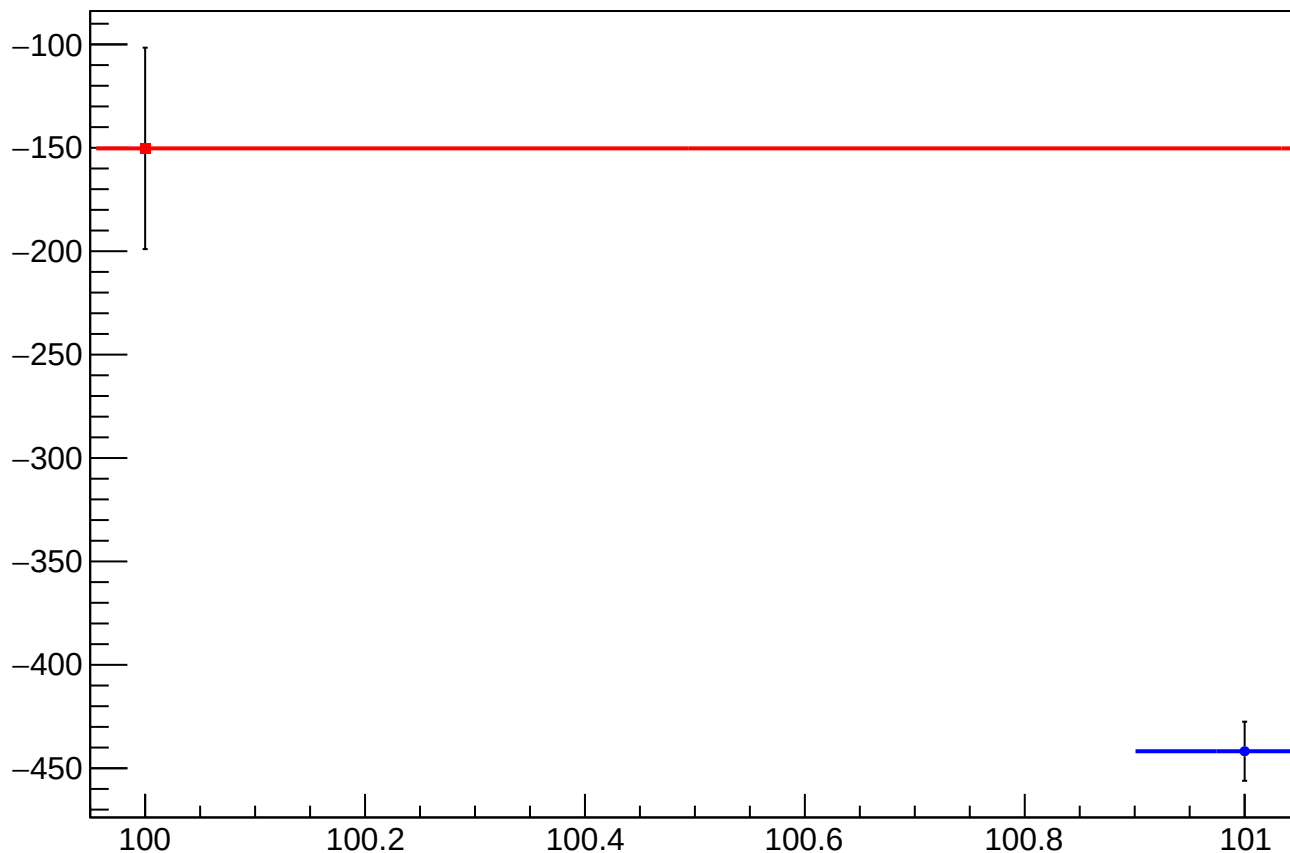
Right: -99.755 $\pm$ 0.679  $\chi^2$ /NDF: 310.1/1

In: -96.213 $\pm$ 0.708  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -99.755 $\pm$ 0.679  $\chi^2$ /NDF: 310.1/1

reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -441.775+/-14.291  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -150.279+/-48.699  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

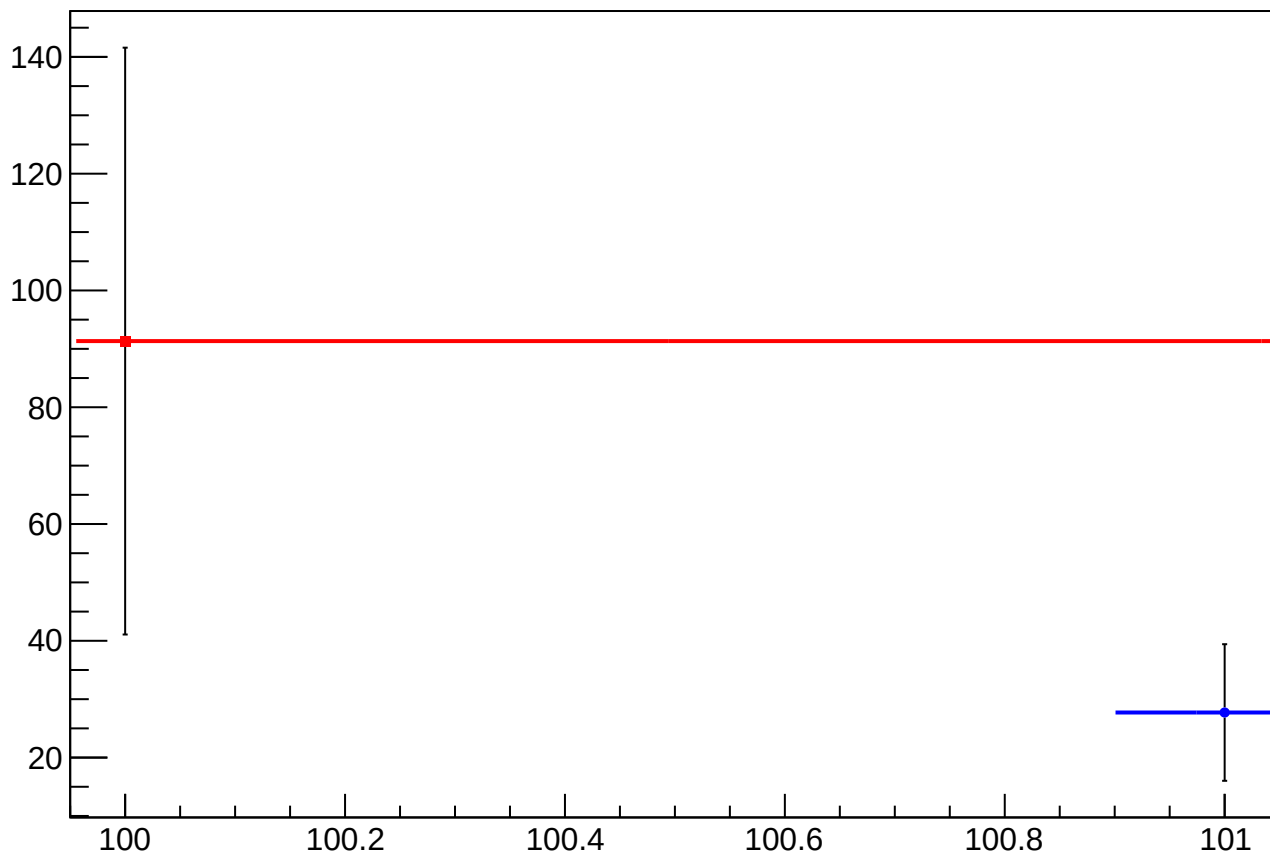
Right: -418.662+/-13.713  $\chi^2/\text{NDF}$ : 33.0/1

In: -441.775+/-14.291  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -418.662+/-13.713  $\chi^2/\text{NDF}$ : 33.0/1

reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 27.719+/-11.697  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 91.329+/-50.252  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

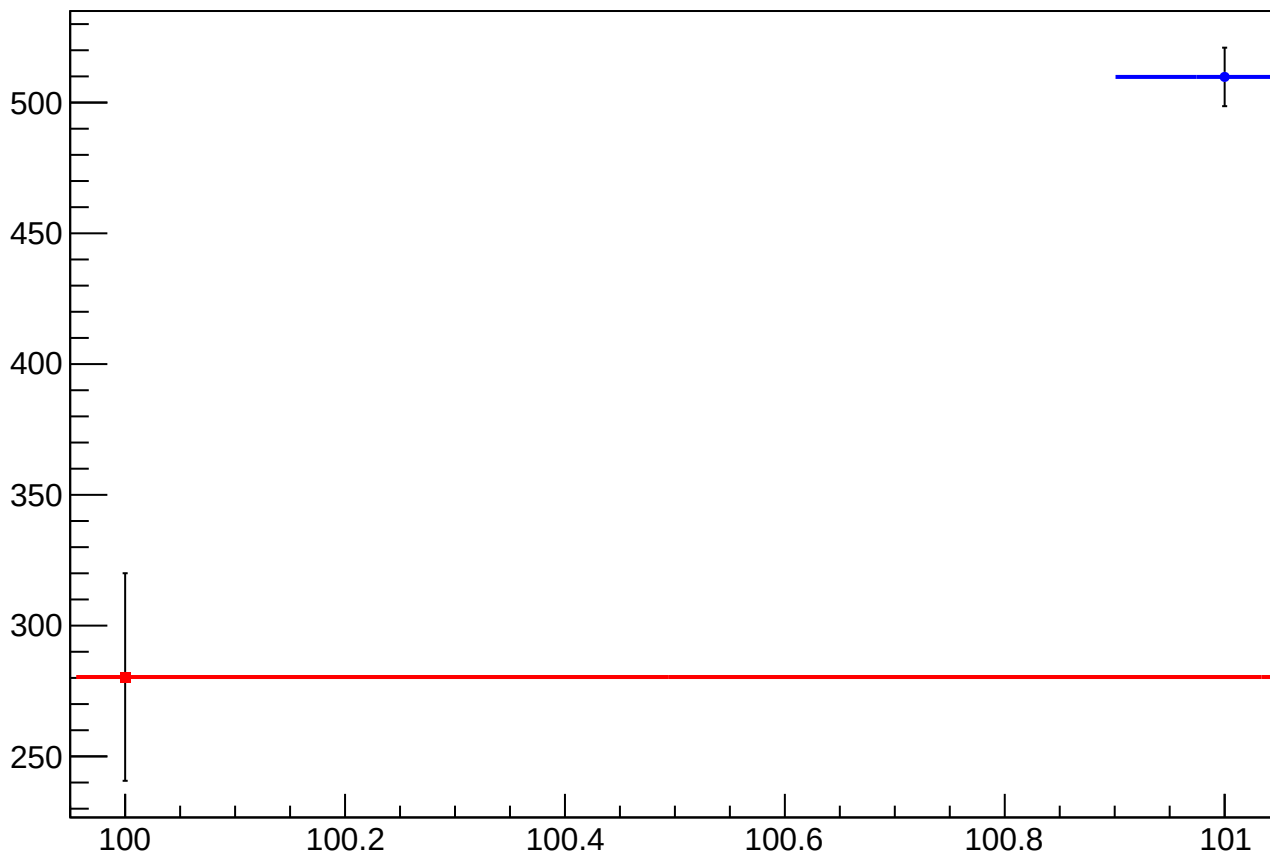
Right: 30.988+/-11.392  $\chi^2$ /NDF: 1.5/1

In: 27.719+/-11.697  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 30.988+/-11.392  $\chi^2$ /NDF: 1.5/1

reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 509.802 $\pm$ 11.185  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 280.348 $\pm$ 39.684  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

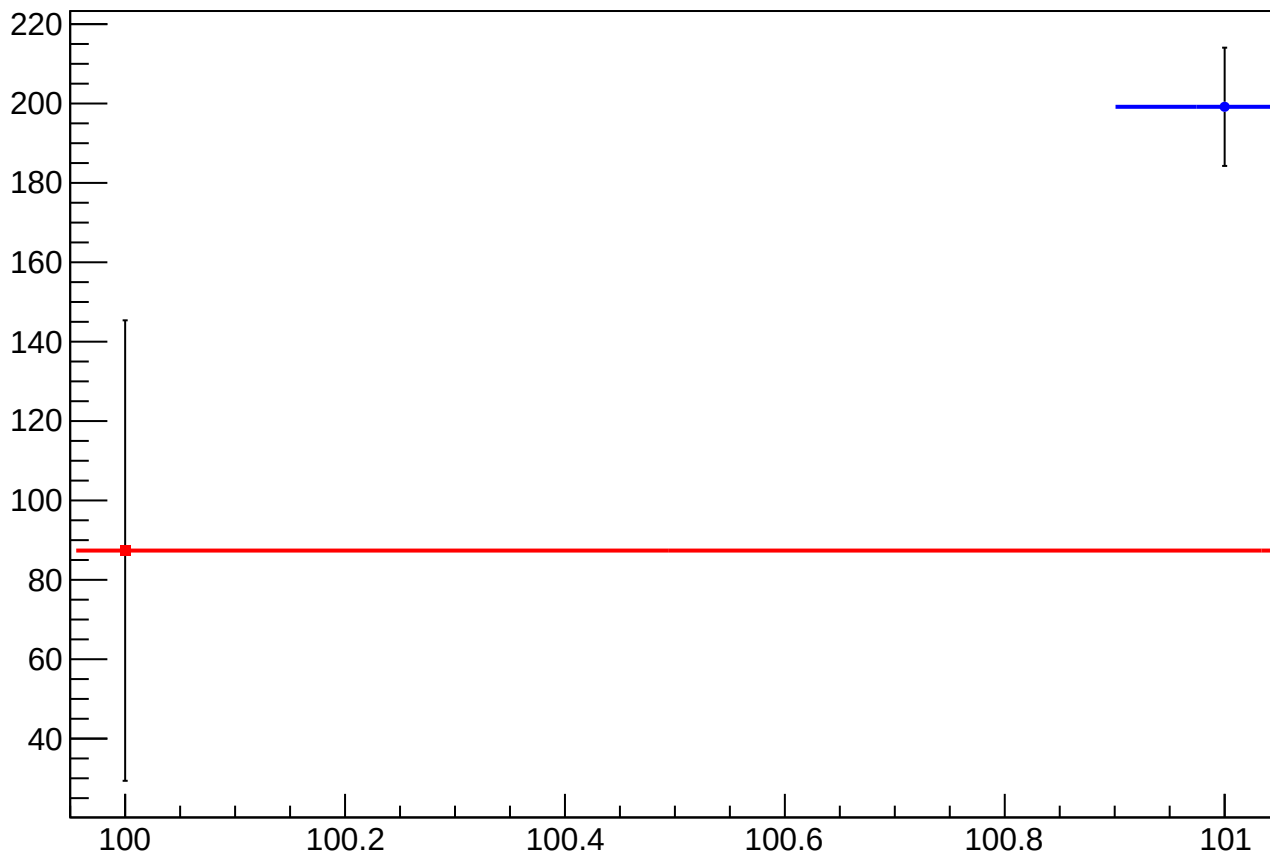
Right: 492.914 $\pm$ 10.766  $\chi^2$ /NDF: 31.0/1

In: 509.802 $\pm$ 11.185  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 492.914 $\pm$ 10.766  $\chi^2$ /NDF: 31.0/1

reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 199.172 $\pm$ 14.897  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 87.375 $\pm$ 58.004  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

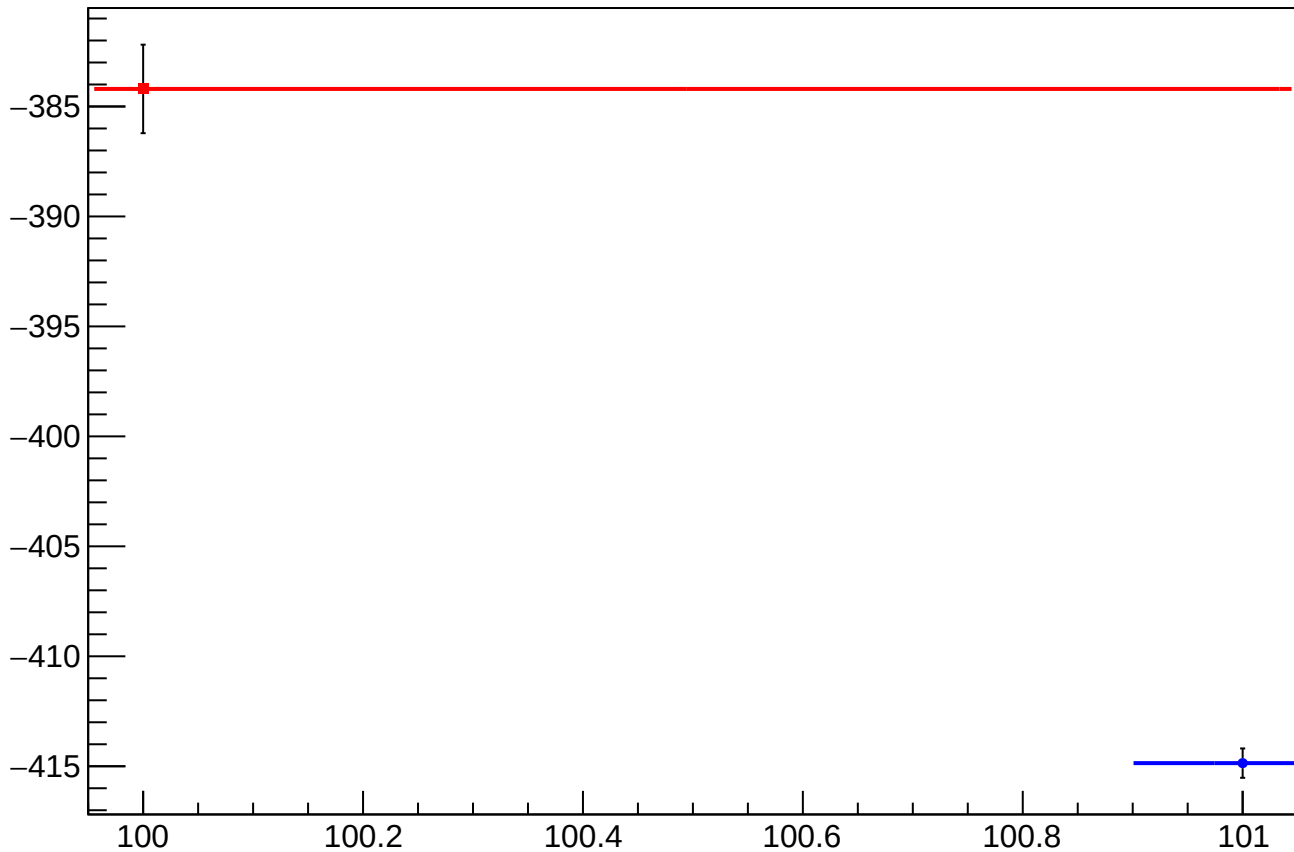
Right: 192.254 $\pm$ 14.429  $\chi^2$ /NDF: 3.5/1

In: 199.172 $\pm$ 14.897  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 192.254 $\pm$ 14.429  $\chi^2$ /NDF: 3.5/1

reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -414.858 $\pm$ 0.667  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -384.202 $\pm$ 2.012  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

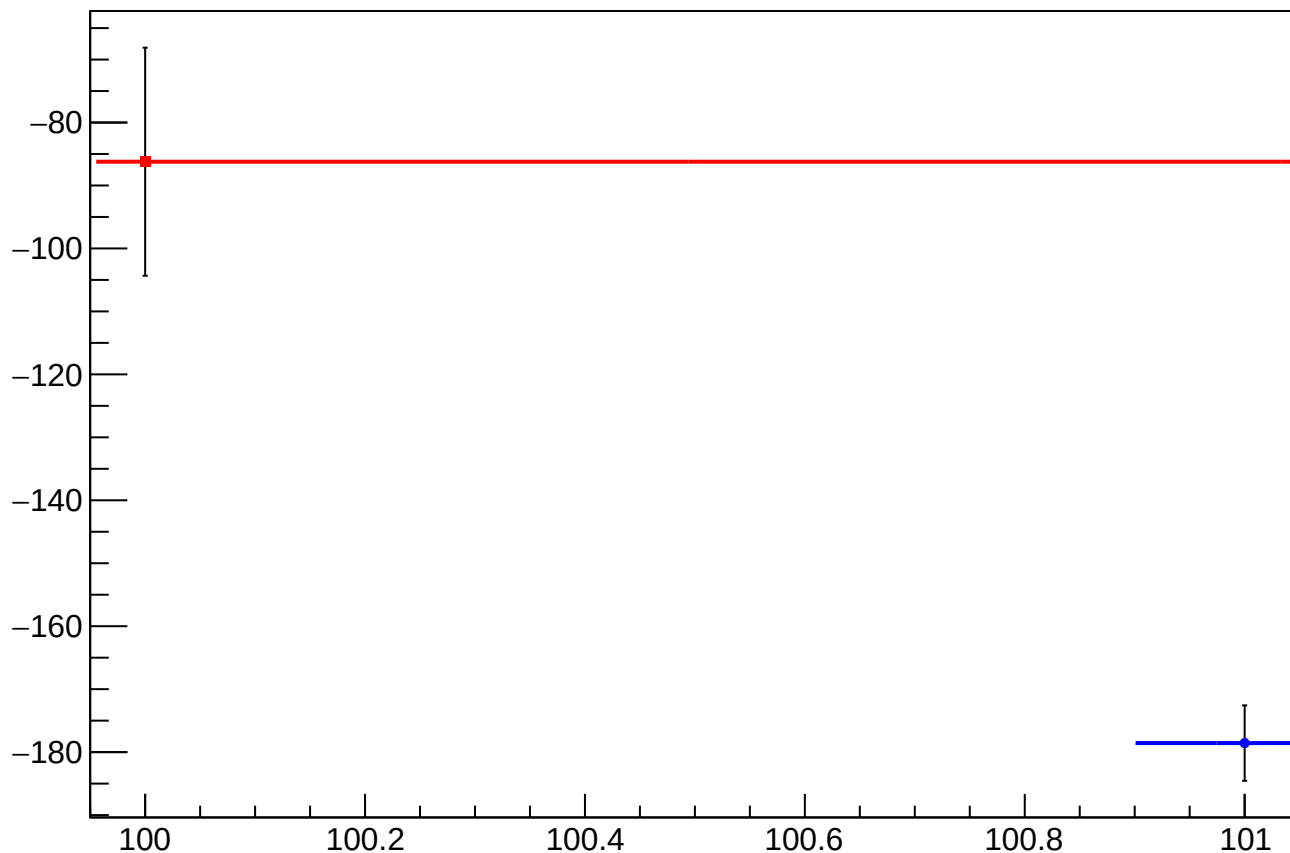
Right: -411.820 $\pm$ 0.633  $\chi^2$ /NDF: 209.1/1

In: -414.858 $\pm$ 0.667  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -411.820 $\pm$ 0.633  $\chi^2$ /NDF: 209.1/1

reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -178.563+/-5.992  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -86.225+/-18.114  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

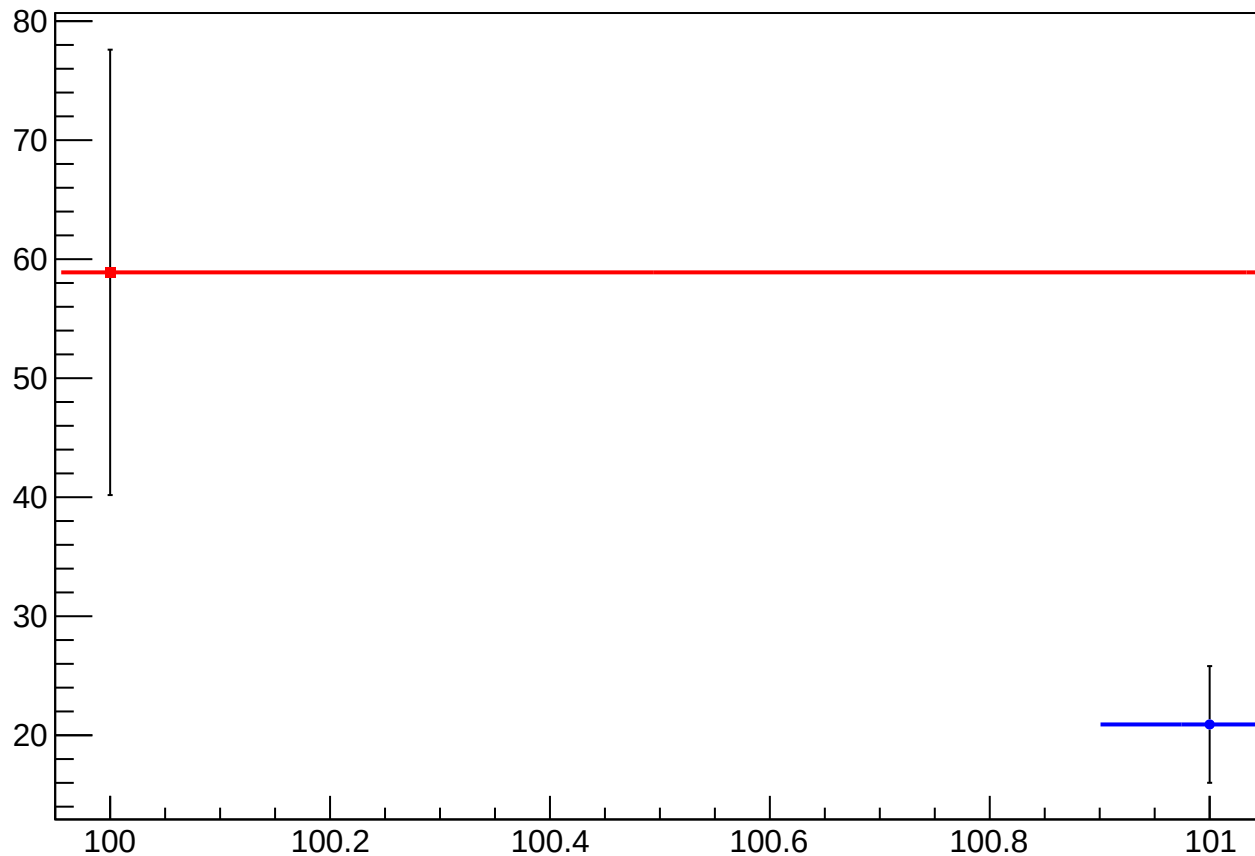
Right: -169.456+/-5.689  $\chi^2/\text{NDF}$ : 23.4/1

In: -178.563+/-5.992  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -169.456+/-5.689  $\chi^2/\text{NDF}$ : 23.4/1

reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 20.908 $\pm$ 4.903  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 58.892 $\pm$ 18.711  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 23.348 $\pm$ 4.742  $\chi^2$ /NDF: 3.9/1

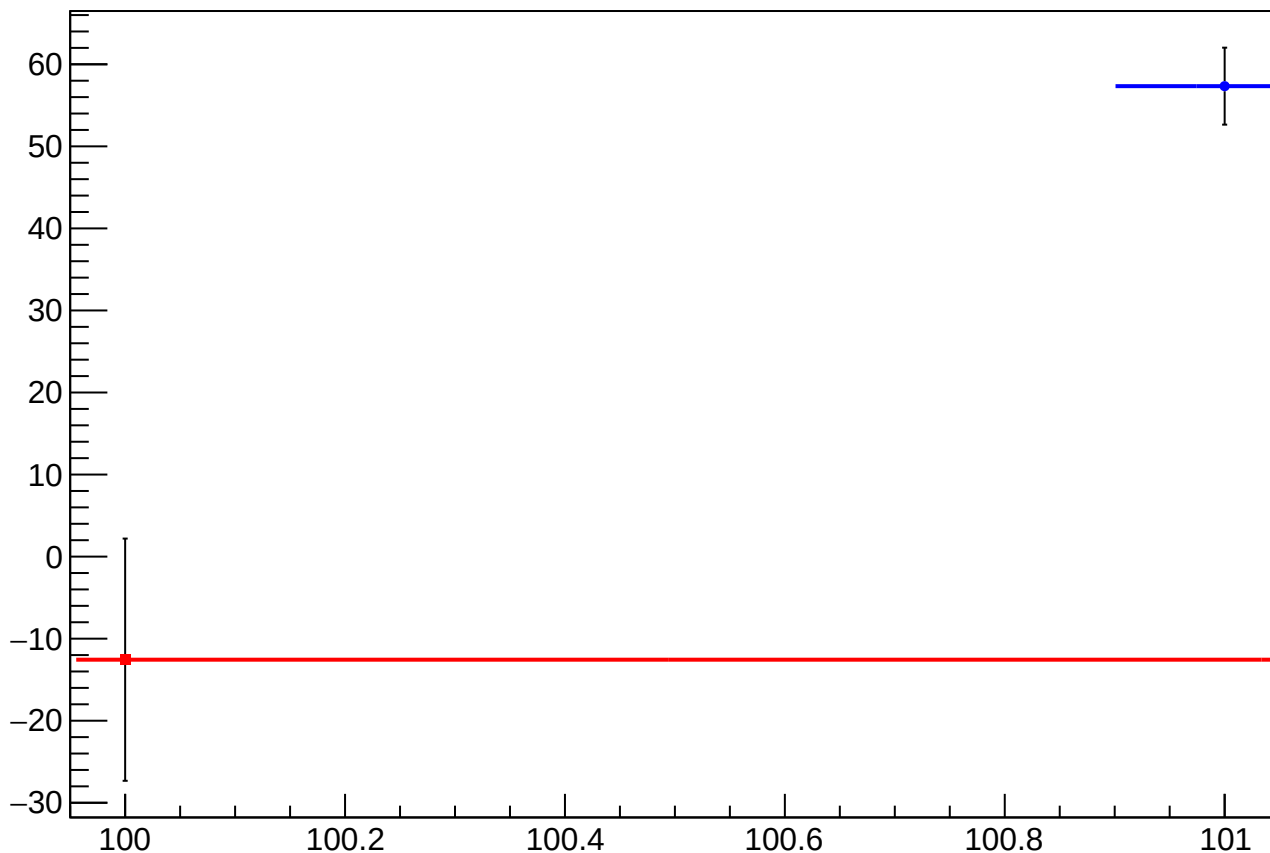
In: 20.908 $\pm$ 4.903  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 23.348 $\pm$ 4.742  $\chi^2$ /NDF: 3.9/1



reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 57.337+/-4.690  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.563+/-14.760  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

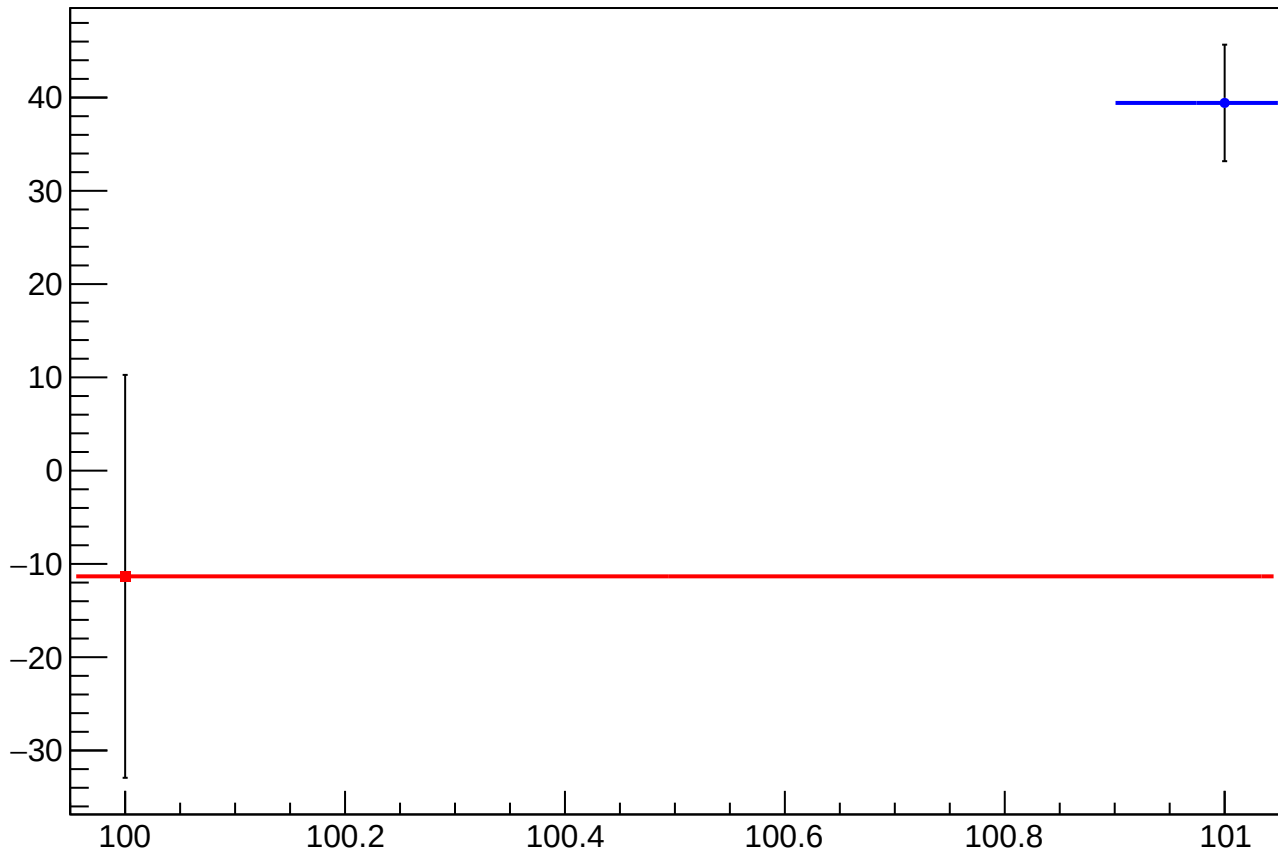
Right: 50.926+/-4.470  $\chi^2/\text{NDF}$ : 20.4/1

In: 57.337+/-4.690  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 50.926+/-4.470  $\chi^2/\text{NDF}$ : 20.4/1

reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 39.423+/-6.246  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.333+/-21.598  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

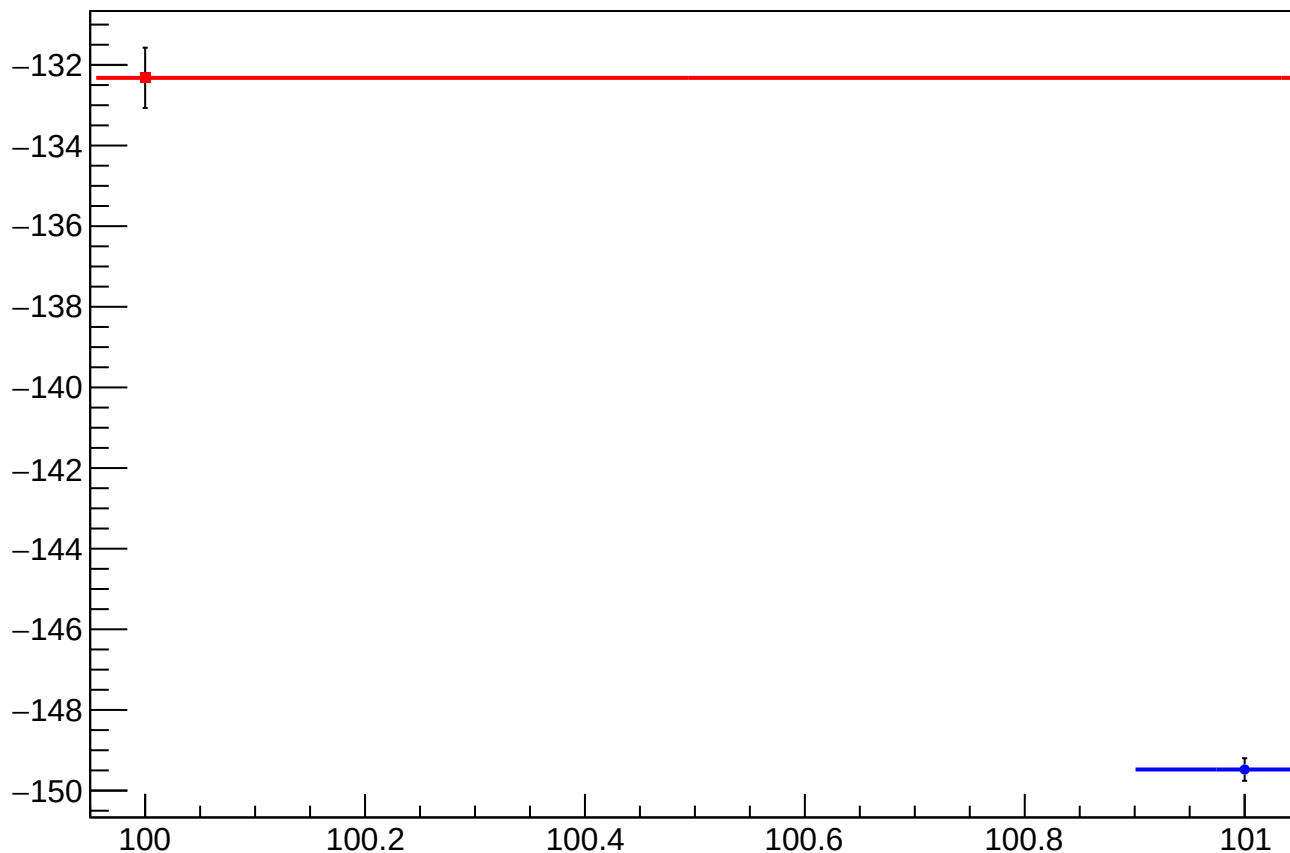
Right: 35.506+/-6.000  $\chi^2/\text{NDF}$ : 5.1/1

In: 39.423+/-6.246  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 35.506+/-6.000  $\chi^2/\text{NDF}$ : 5.1/1

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -149.478 $\pm$ 0.280  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -132.321 $\pm$ 0.749  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

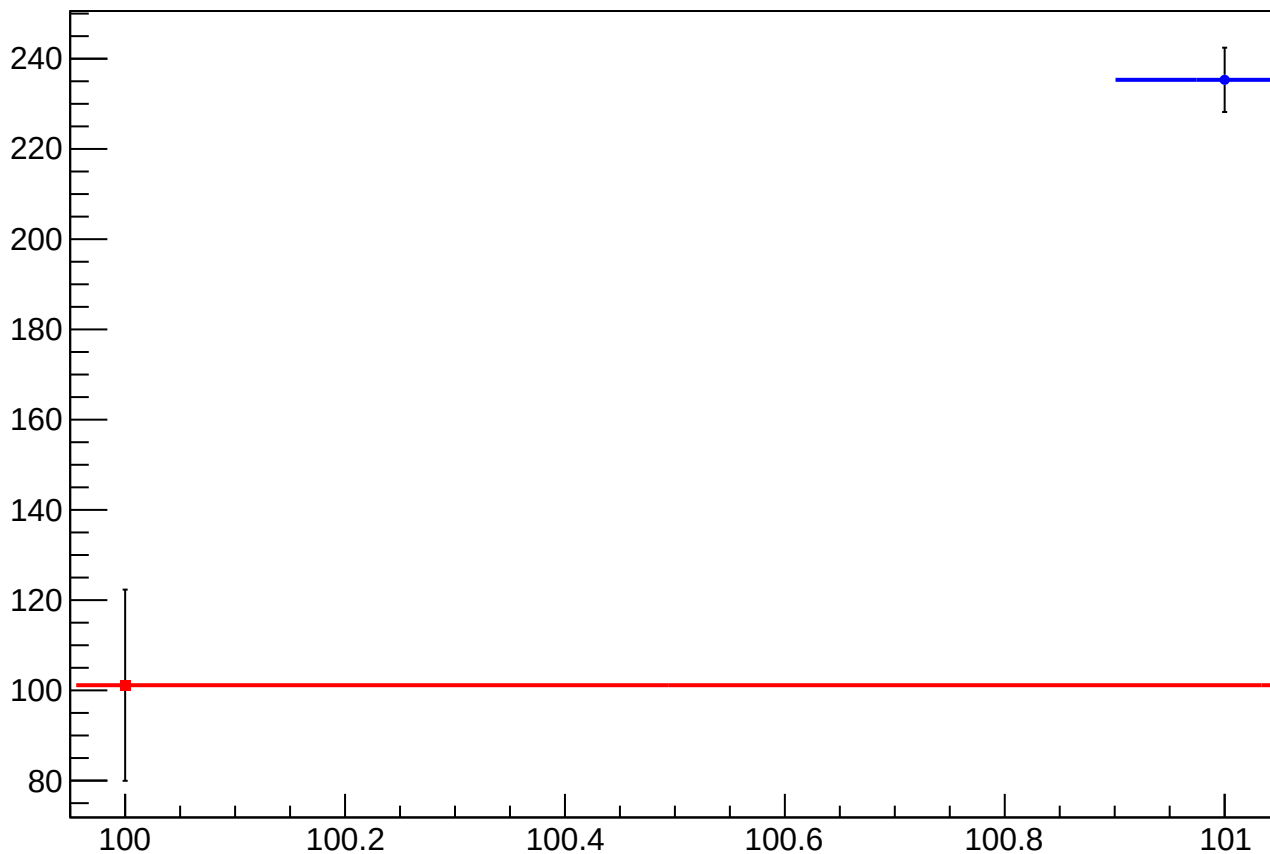
Right: -147.372 $\pm$ 0.262  $\chi^2$ /NDF: 460.5/1

In: -149.478 $\pm$ 0.280  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -147.372 $\pm$ 0.262  $\chi^2$ /NDF: 460.5/1

reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 235.320 $\pm$ 7.128  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 101.144 $\pm$ 21.187  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

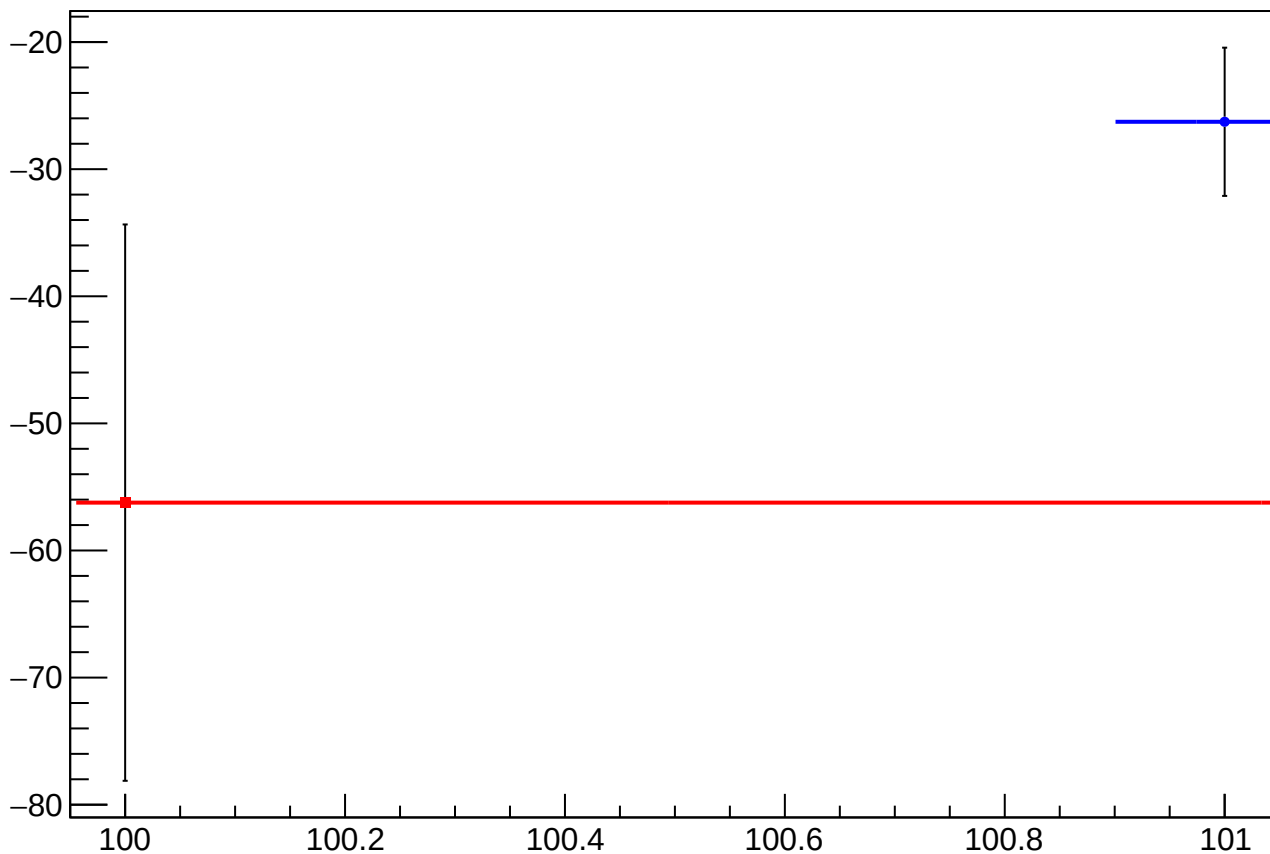
Right: 221.678 $\pm$ 6.756  $\chi^2$ /NDF: 36.0/1

In: 235.320 $\pm$ 7.128  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 221.678 $\pm$ 6.756  $\chi^2$ /NDF: 36.0/1

reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -26.272 $\pm$ 5.831  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -56.234 $\pm$ 21.885  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

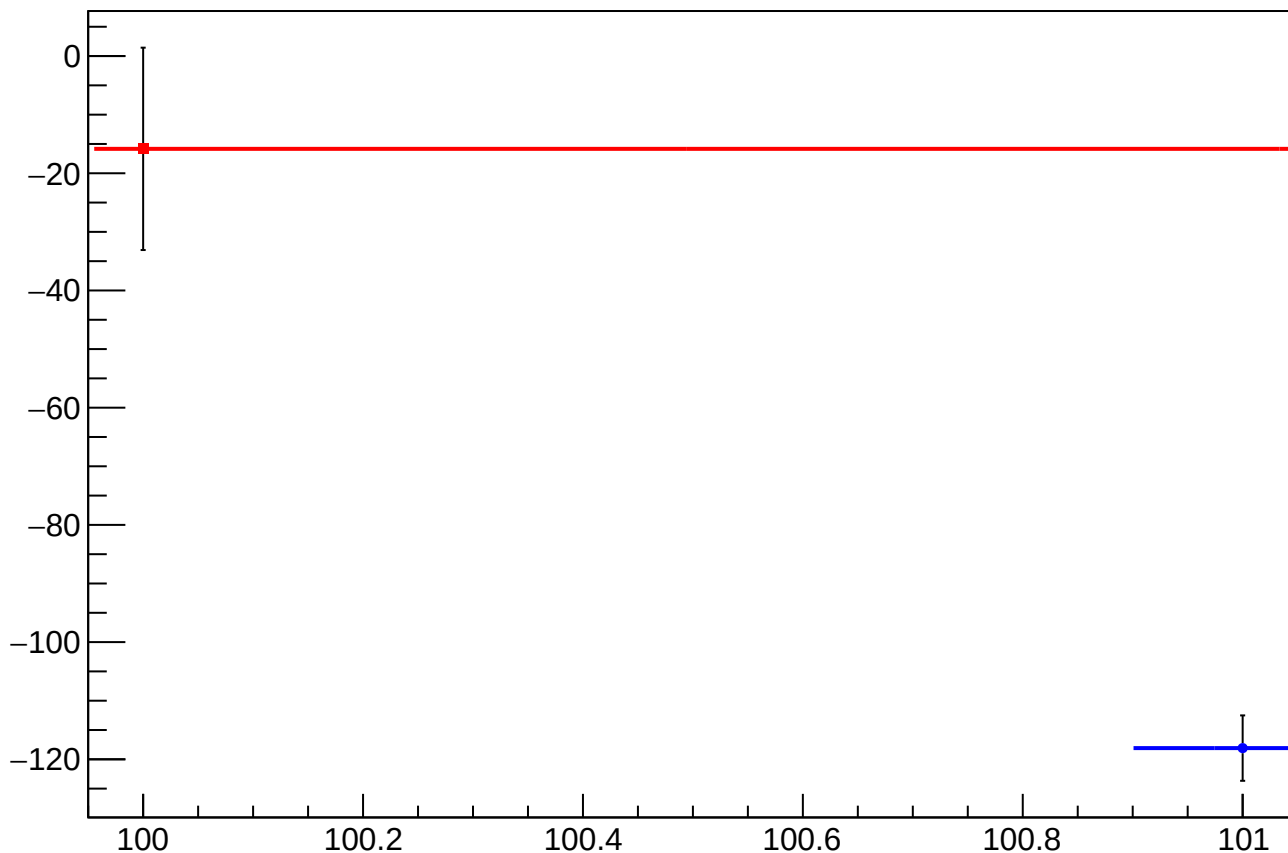
Right: -28.258 $\pm$ 5.635  $\chi^2$ /NDF: 1.8/1

In: -26.272 $\pm$ 5.831  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -28.258 $\pm$ 5.635  $\chi^2$ /NDF: 1.8/1

reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -118.088+/-5.579  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -15.834+/-17.264  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

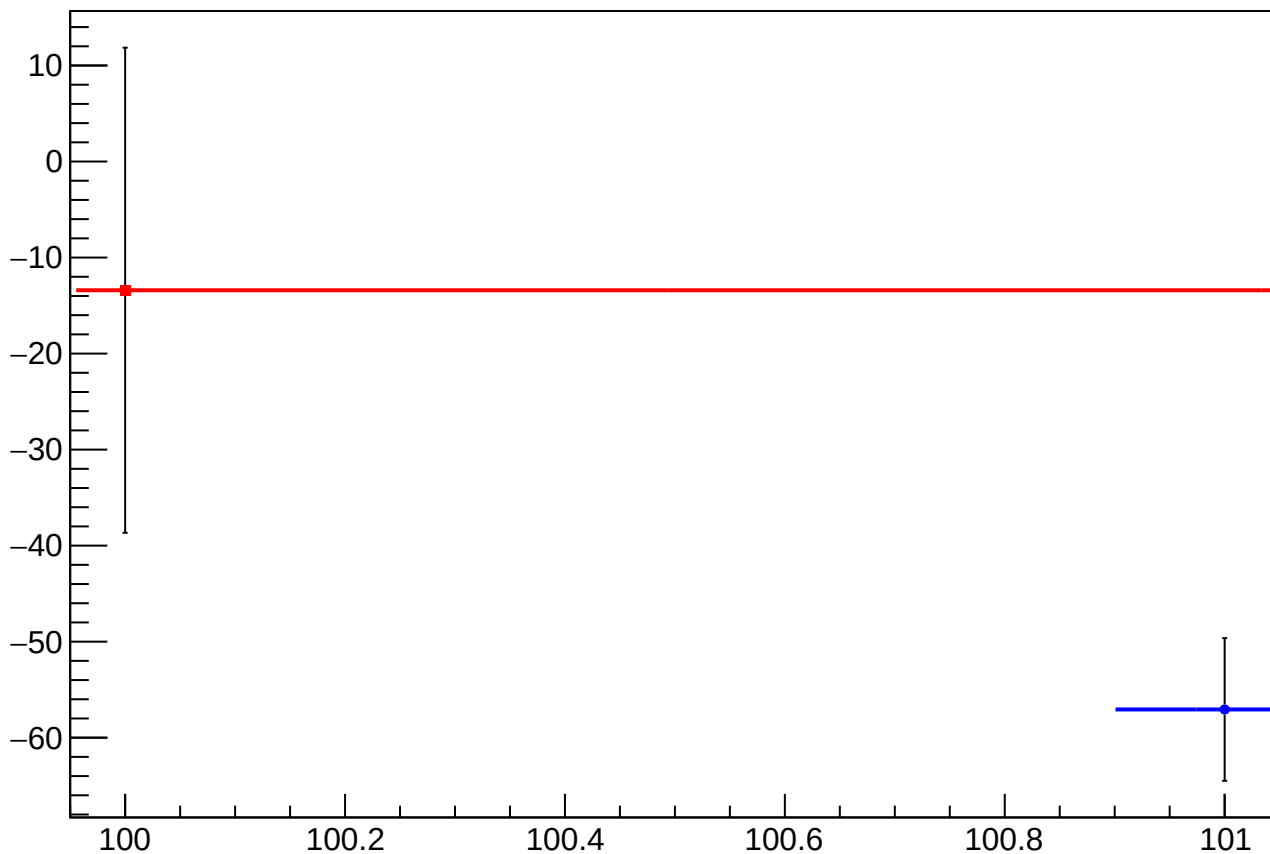
Right: -108.418+/-5.309  $\chi^2/\text{NDF}$ : 31.8/1

In: -118.088+/-5.579  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -108.418+/-5.309  $\chi^2/\text{NDF}$ : 31.8/1

reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -57.061 $\pm$ 7.429  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -13.404 $\pm$ 25.262  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

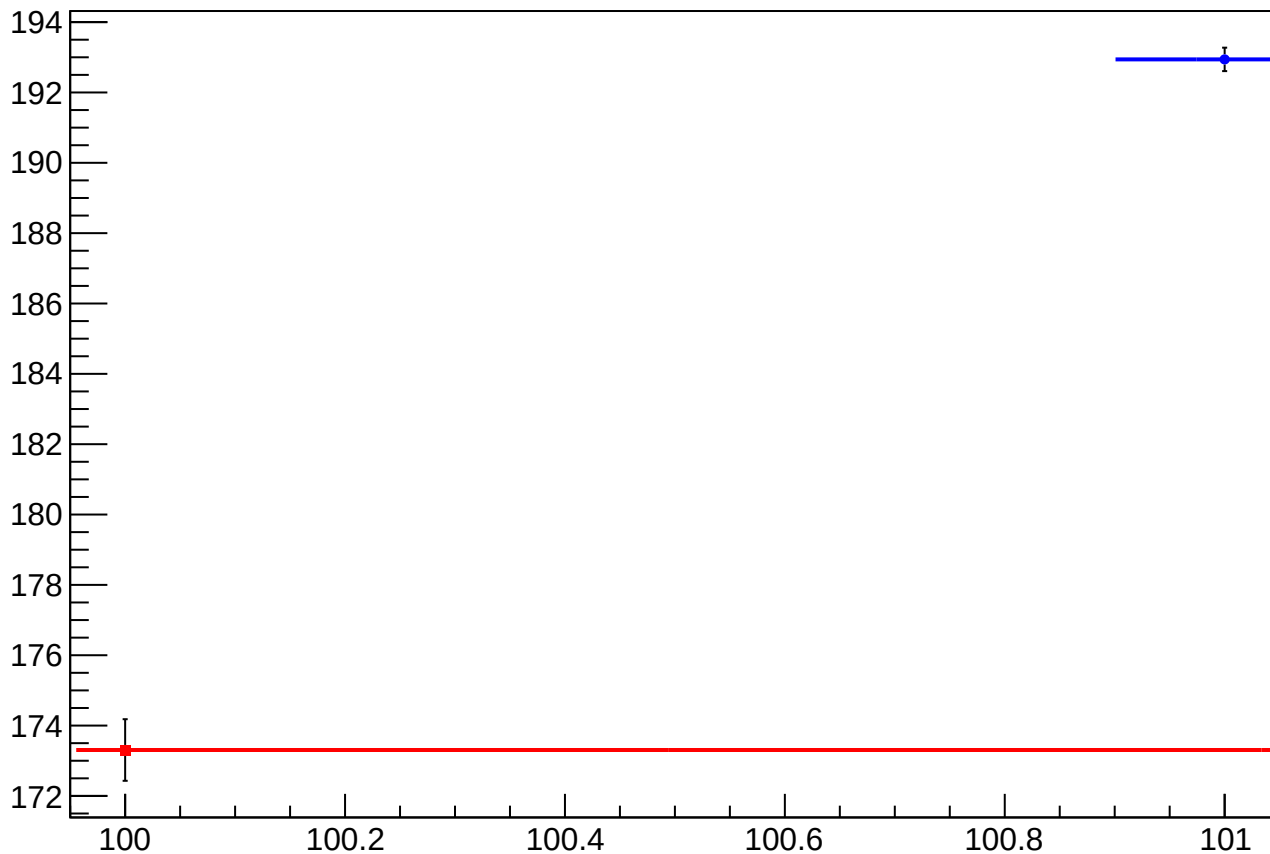
Right: -53.586 $\pm$ 7.128  $\chi^2$ /NDF: 2.7/1

In: -57.061 $\pm$ 7.429  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -53.586 $\pm$ 7.128  $\chi^2$ /NDF: 2.7/1

reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 192.940 $\pm$ 0.333  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 173.306 $\pm$ 0.876  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 190.458 $\pm$ 0.311  $\chi^2$ /NDF: 439.2/1

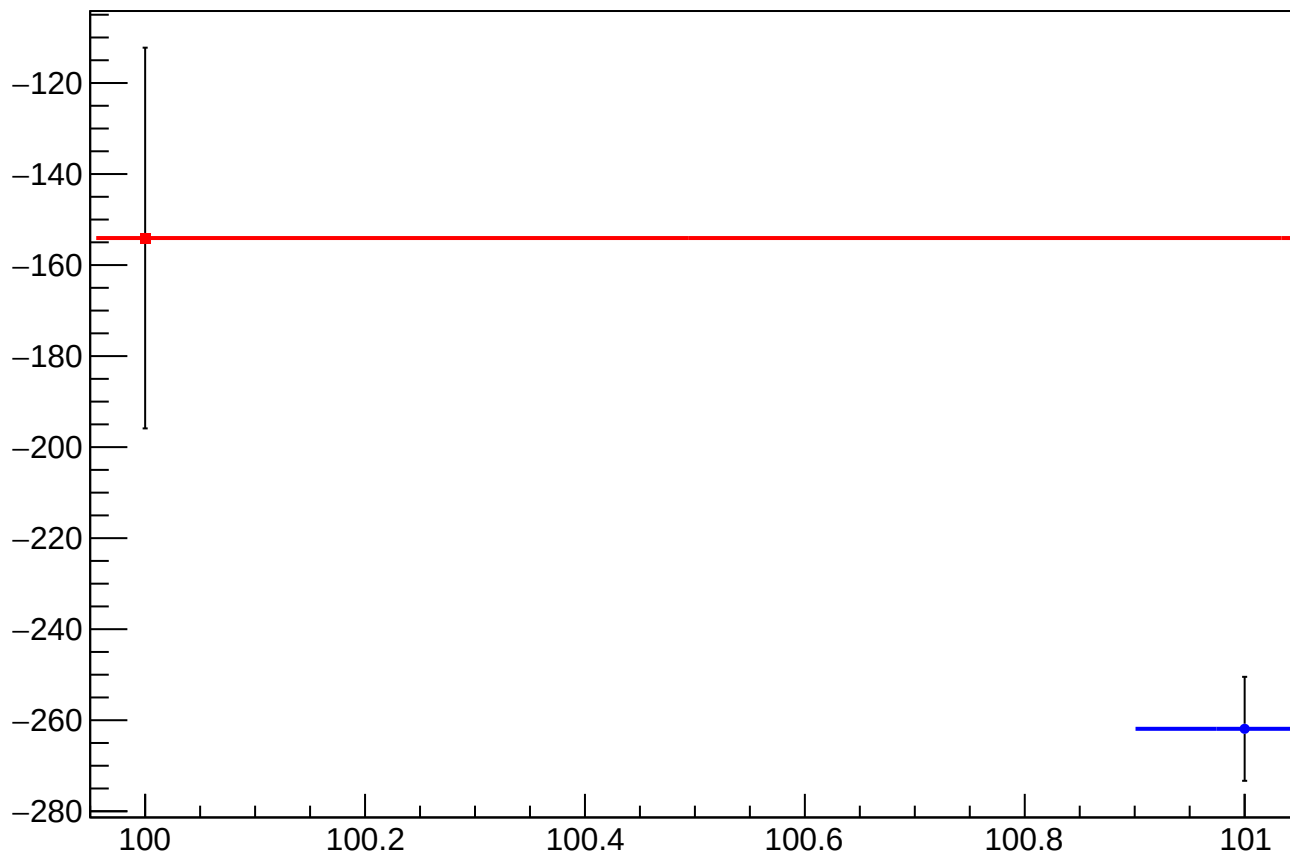
In: 192.940 $\pm$ 0.333  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 190.458 $\pm$ 0.311  $\chi^2$ /NDF: 439.2/1



reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -261.889 $\pm$ 11.421  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -154.061 $\pm$ 41.825  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

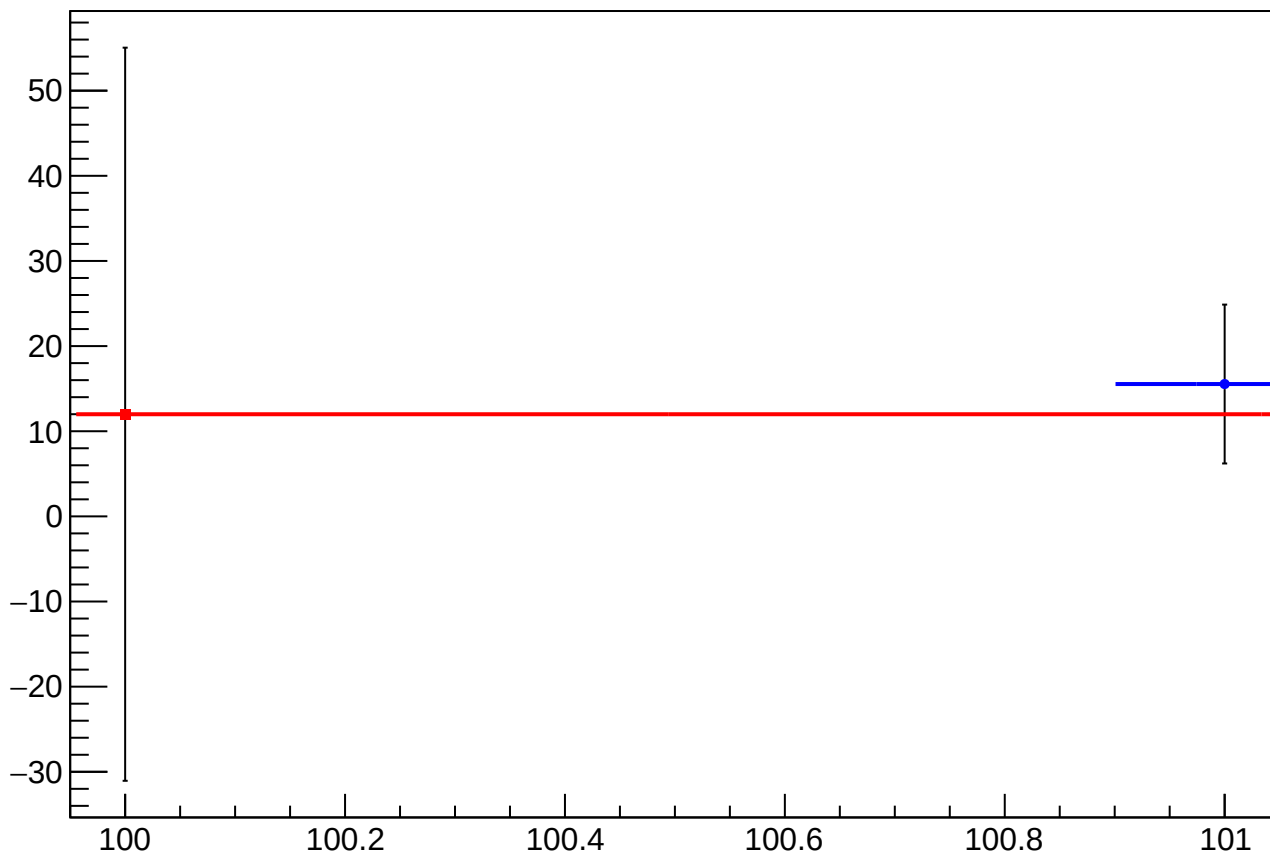
Right: -254.406 $\pm$ 11.018  $\chi^2/\text{NDF}$ : 6.2/1

In: -261.889 $\pm$ 11.421  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -254.406 $\pm$ 11.018  $\chi^2/\text{NDF}$ : 6.2/1

reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 15.543+/-9.330  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.996+/-43.053  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

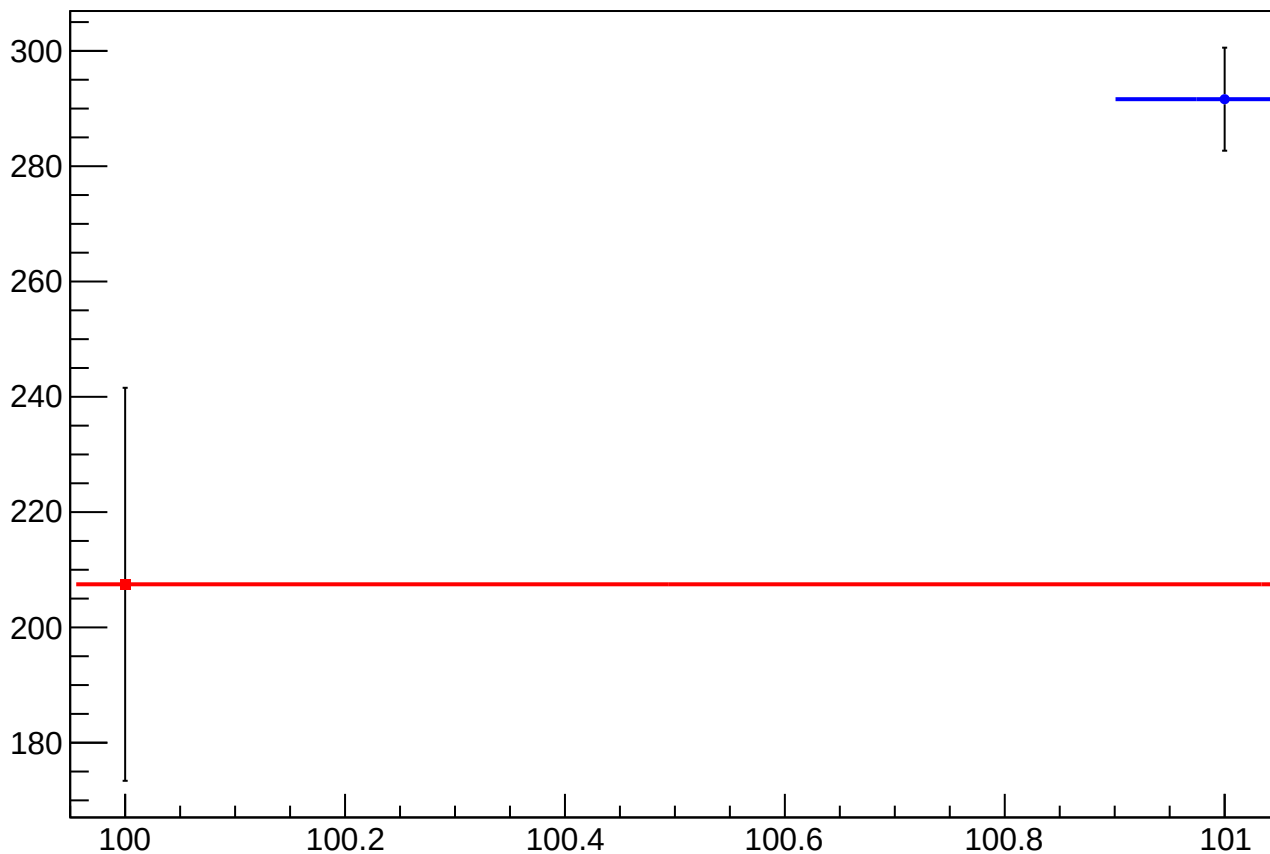
Right: 15.384+/-9.118  $\chi^2/\text{NDF}$ : 0.0/1

In: 15.543+/-9.330  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 15.384+/-9.118  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 291.627 $\pm$ 8.936  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 207.479 $\pm$ 34.086  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

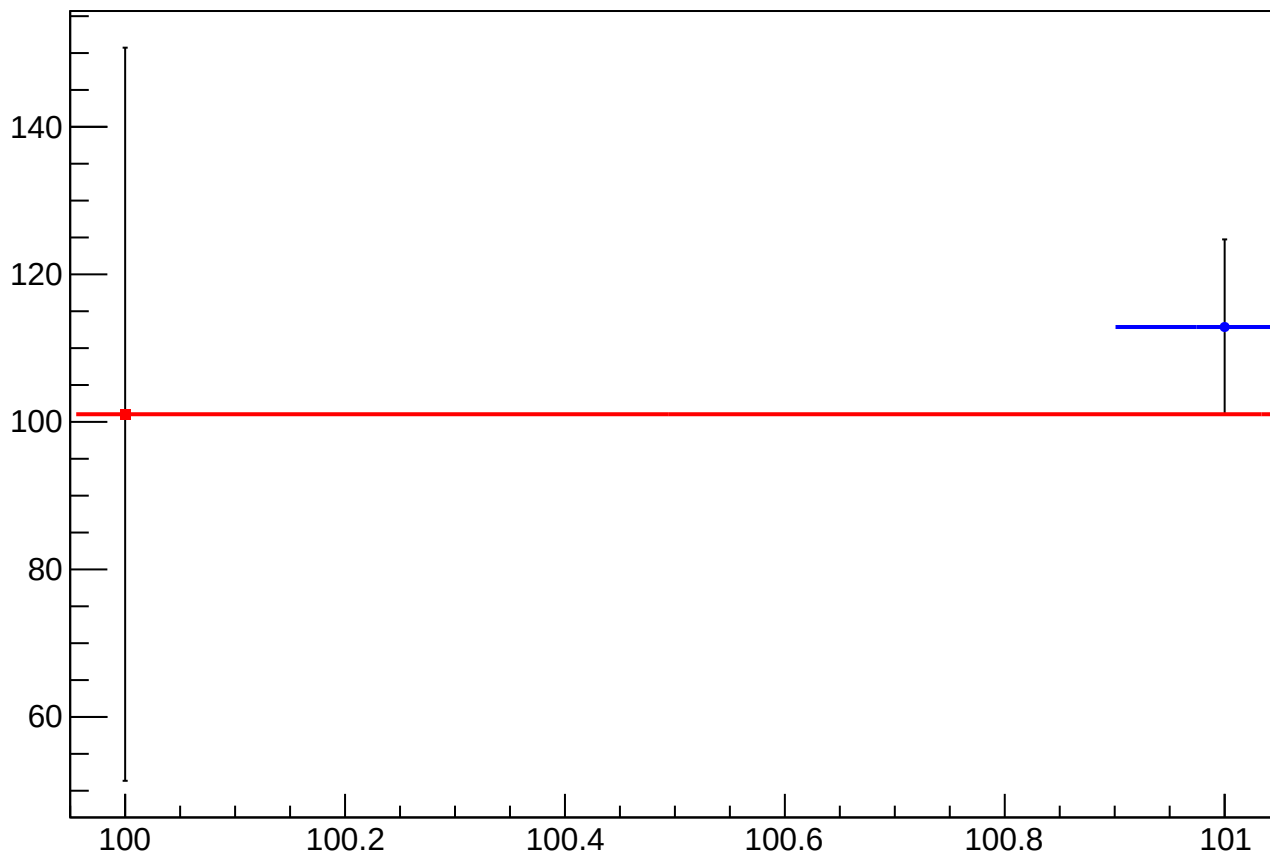
Right: 286.215 $\pm$ 8.644  $\chi^2$ /NDF: 5.7/1

In: 291.627 $\pm$ 8.936  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 286.215 $\pm$ 8.644  $\chi^2$ /NDF: 5.7/1

reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 112.862 $\pm$ 11.876  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 101.038 $\pm$ 49.692  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

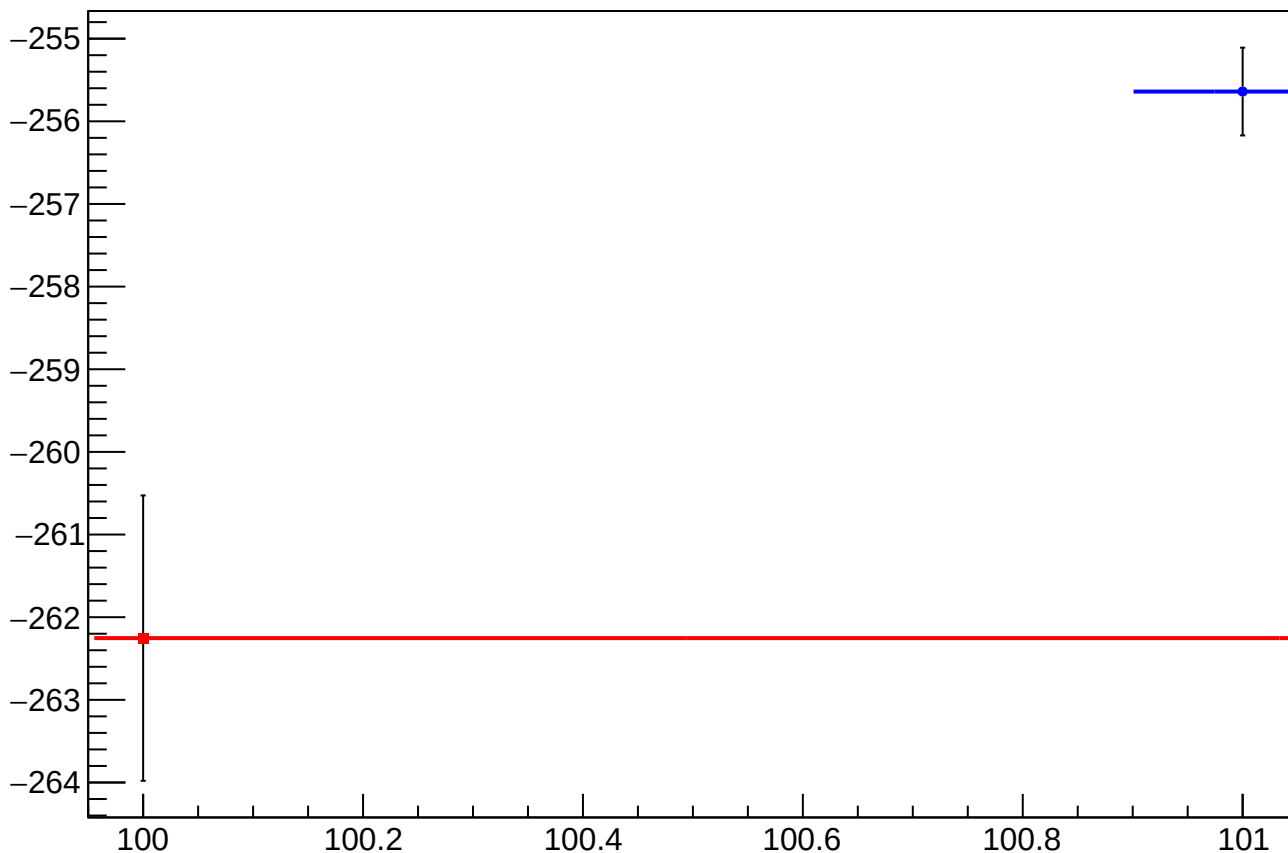
Right: 112.224 $\pm$ 11.551  $\chi^2$ /NDF: 0.1/1

In: 112.862 $\pm$ 11.876  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 112.224 $\pm$ 11.551  $\chi^2$ /NDF: 0.1/1

reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -255.640 $\pm$ 0.531  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -262.253 $\pm$ 1.726  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

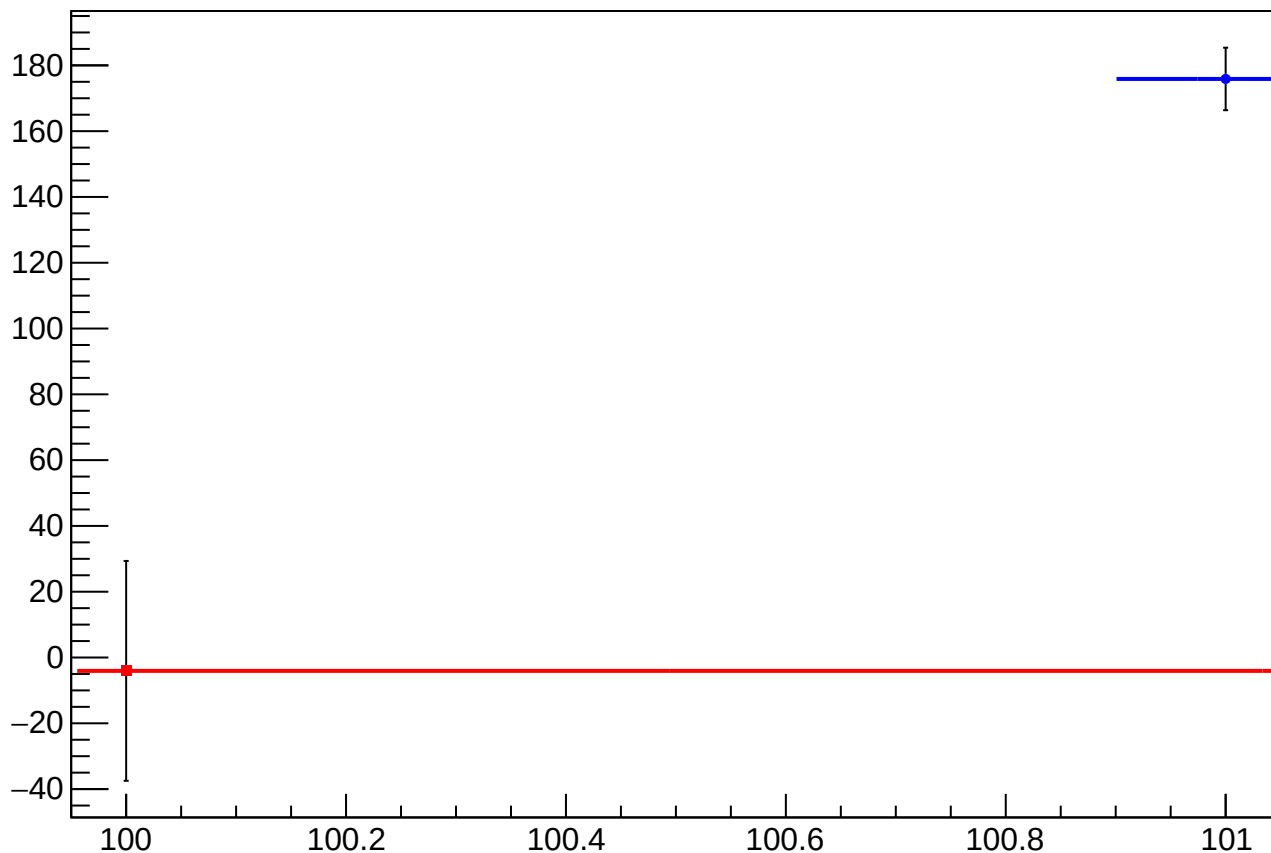
Right: -256.211 $\pm$ 0.508  $\chi^2$ /NDF: 13.4/1

In: -255.640 $\pm$ 0.531  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -256.211 $\pm$ 0.508  $\chi^2$ /NDF: 13.4/1

reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 175.875+/-9.503  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.065+/-33.412  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

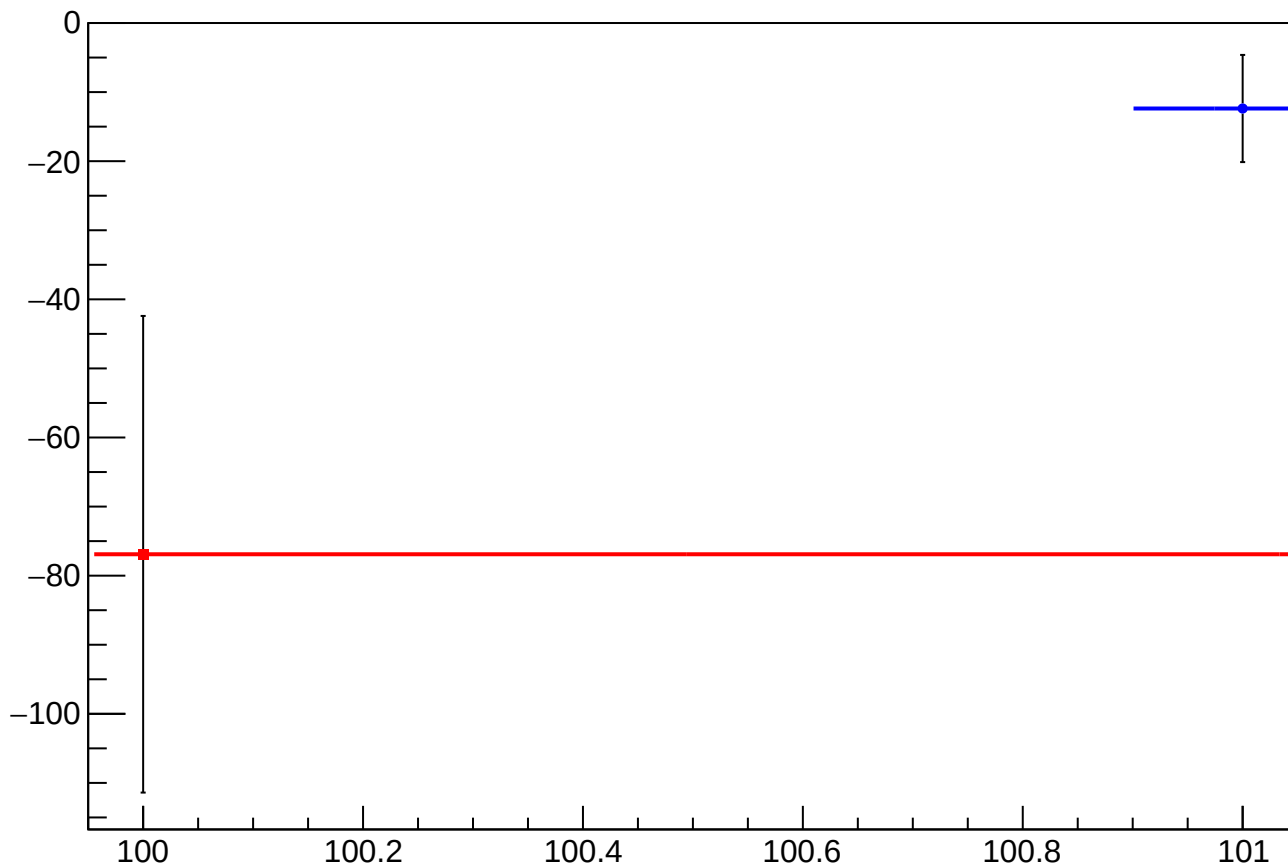
Right: 162.407+/-9.141  $\chi^2/\text{NDF}$ : 26.8/1

In: 175.875+/-9.503  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 162.407+/-9.141  $\chi^2/\text{NDF}$ : 26.8/1

reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -12.376 $\pm$ 7.757  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -76.901 $\pm$ 34.498  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

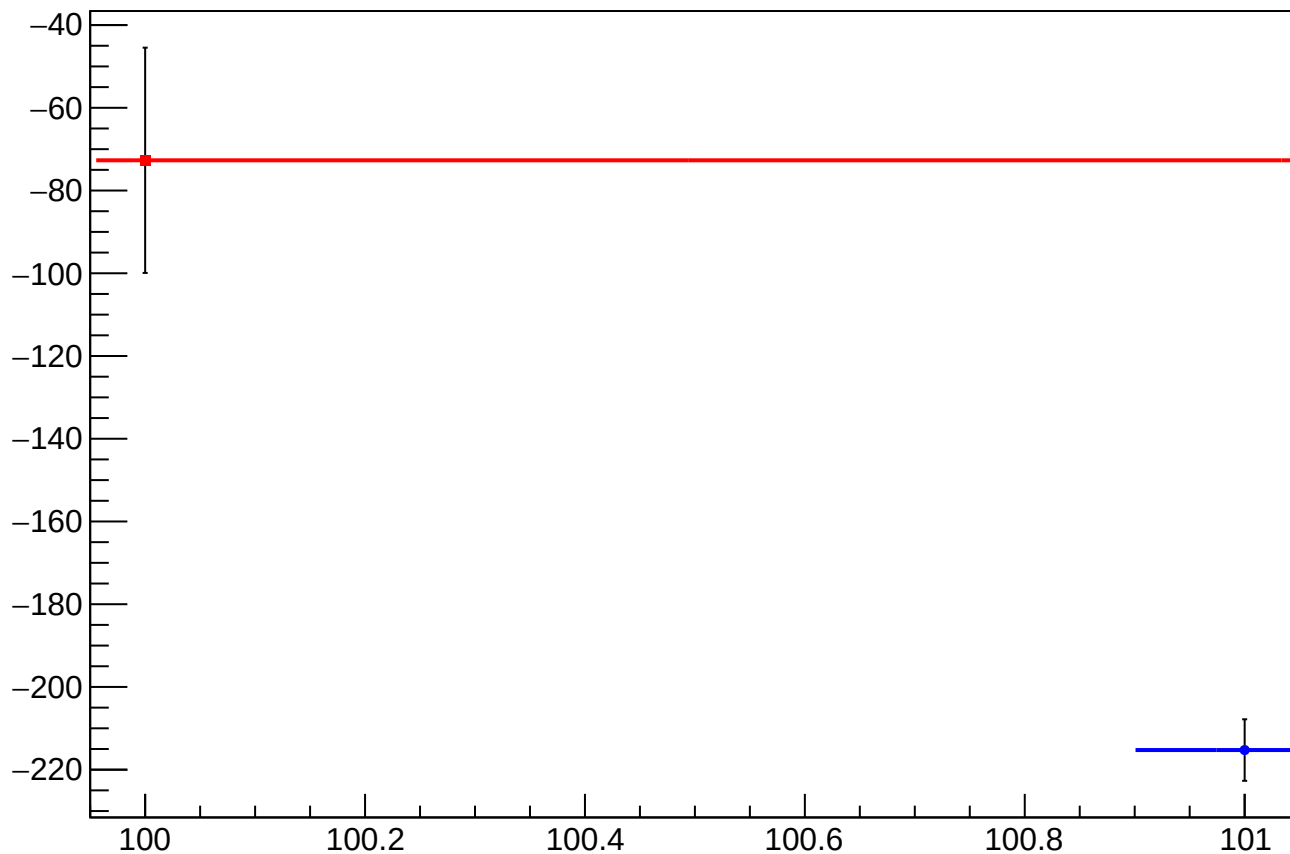
Right: -15.481 $\pm$ 7.568  $\chi^2$ /NDF: 3.3/1

In: -12.376 $\pm$ 7.757  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -15.481 $\pm$ 7.568  $\chi^2$ /NDF: 3.3/1

reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -215.253+/-7.435  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -72.690+/-27.226  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: -205.360+/-7.172  $\chi^2$ /NDF: 25.5/1

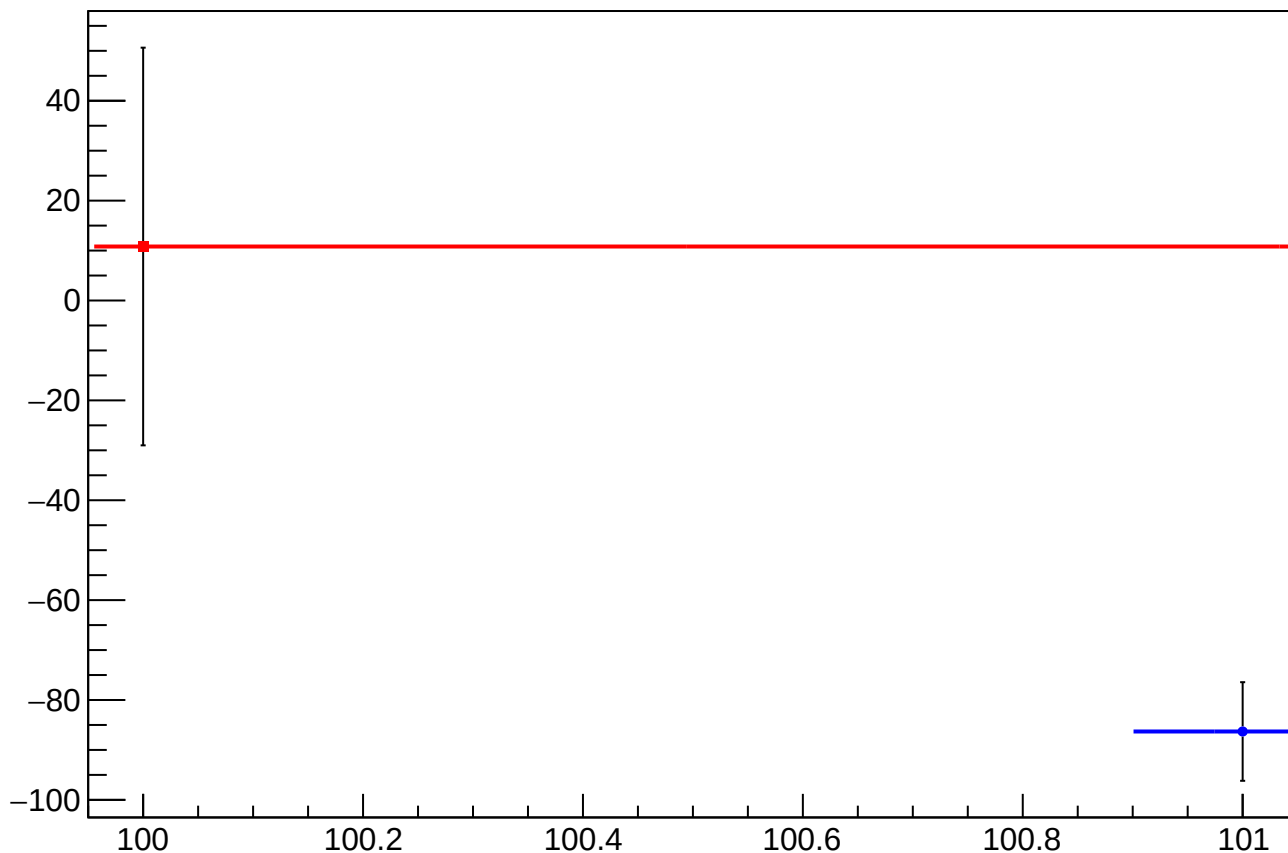
In: -215.253+/-7.435  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -205.360+/-7.172  $\chi^2$ /NDF: 25.5/1



reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -86.307 $\pm$ 9.874  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.812 $\pm$ 39.820  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

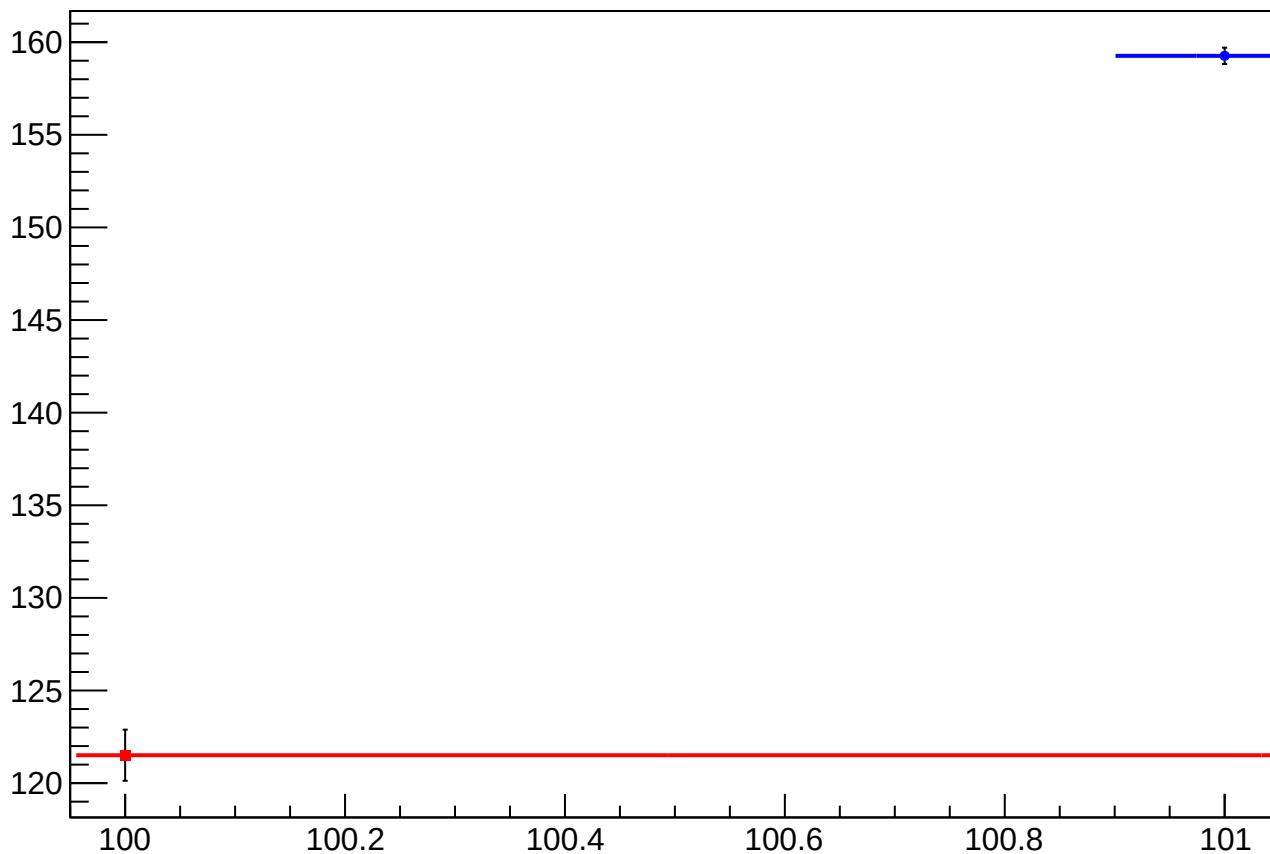
Right: -80.681 $\pm$ 9.584  $\chi^2$ /NDF: 5.6/1

In: -86.307 $\pm$ 9.874  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -80.681 $\pm$ 9.584  $\chi^2$ /NDF: 5.6/1

reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 159.263 $\pm$ 0.441  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 121.506 $\pm$ 1.380  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

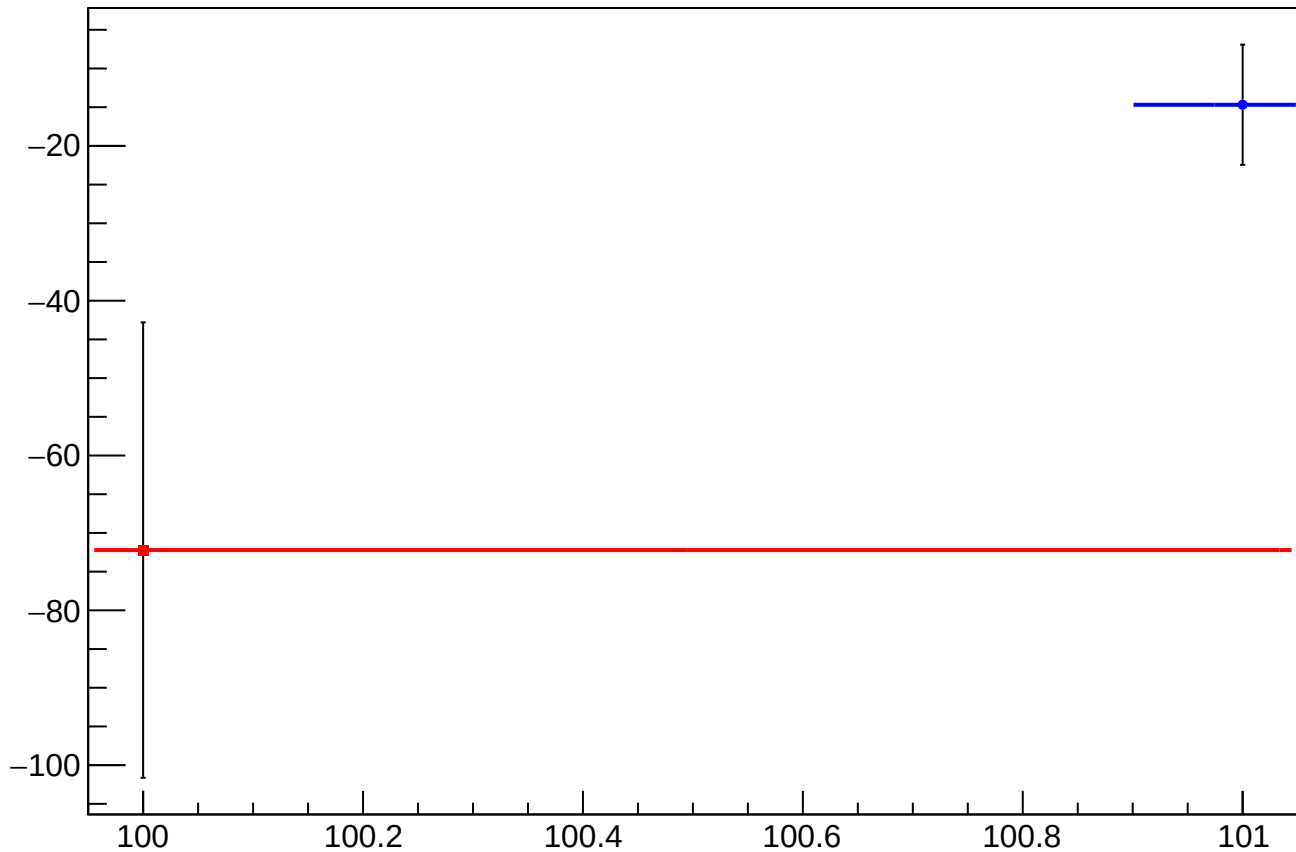
Right: 155.767 $\pm$ 0.420  $\chi^2/\text{NDF}$ : 679.1/1

In: 159.263 $\pm$ 0.441  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 155.767 $\pm$ 0.420  $\chi^2/\text{NDF}$ : 679.1/1

reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -14.686 $\pm$ 7.765  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -72.215 $\pm$ 29.419  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

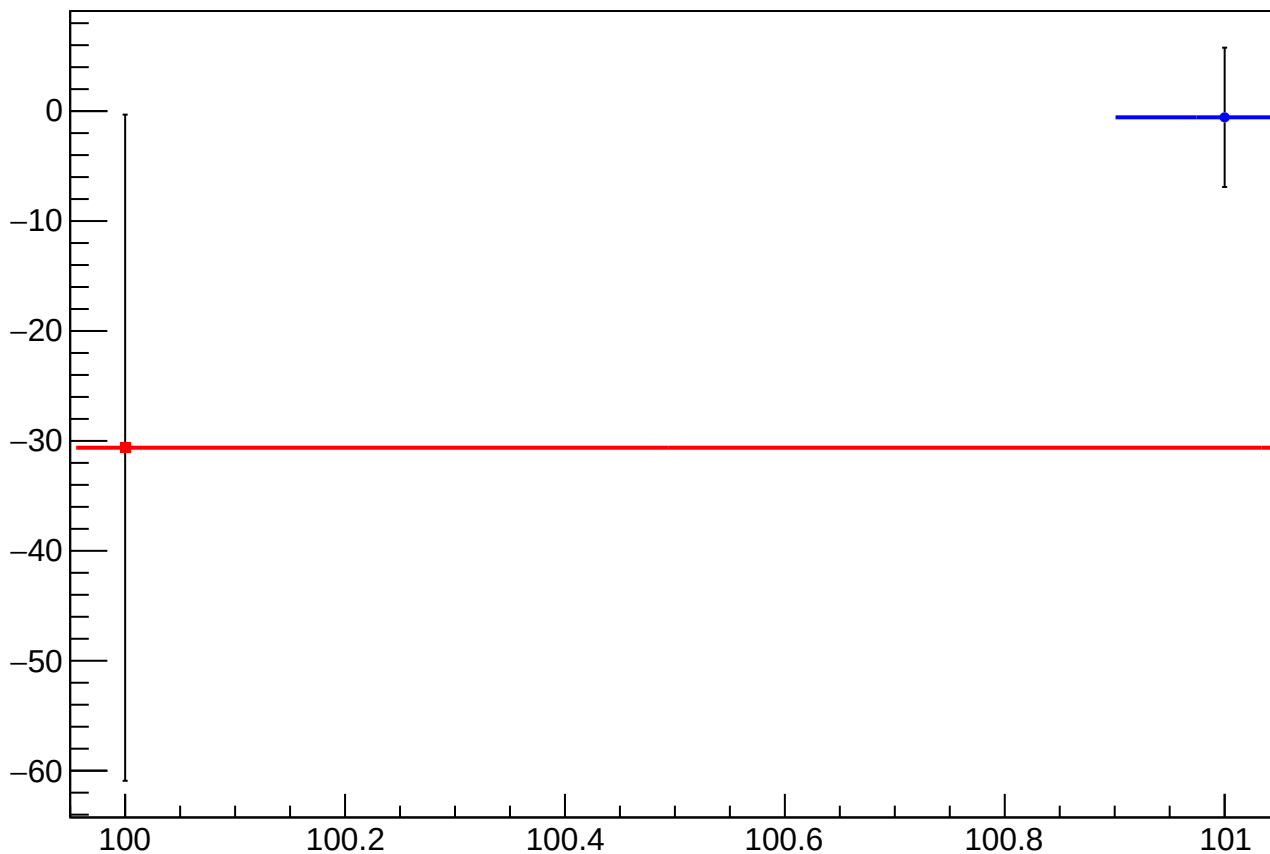
Right: -18.433 $\pm$ 7.508  $\chi^2$ /NDF: 3.6/1

In: -14.686 $\pm$ 7.765  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -18.433 $\pm$ 7.508  $\chi^2$ /NDF: 3.6/1

reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.564+/-6.336  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -30.619+/-30.301  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

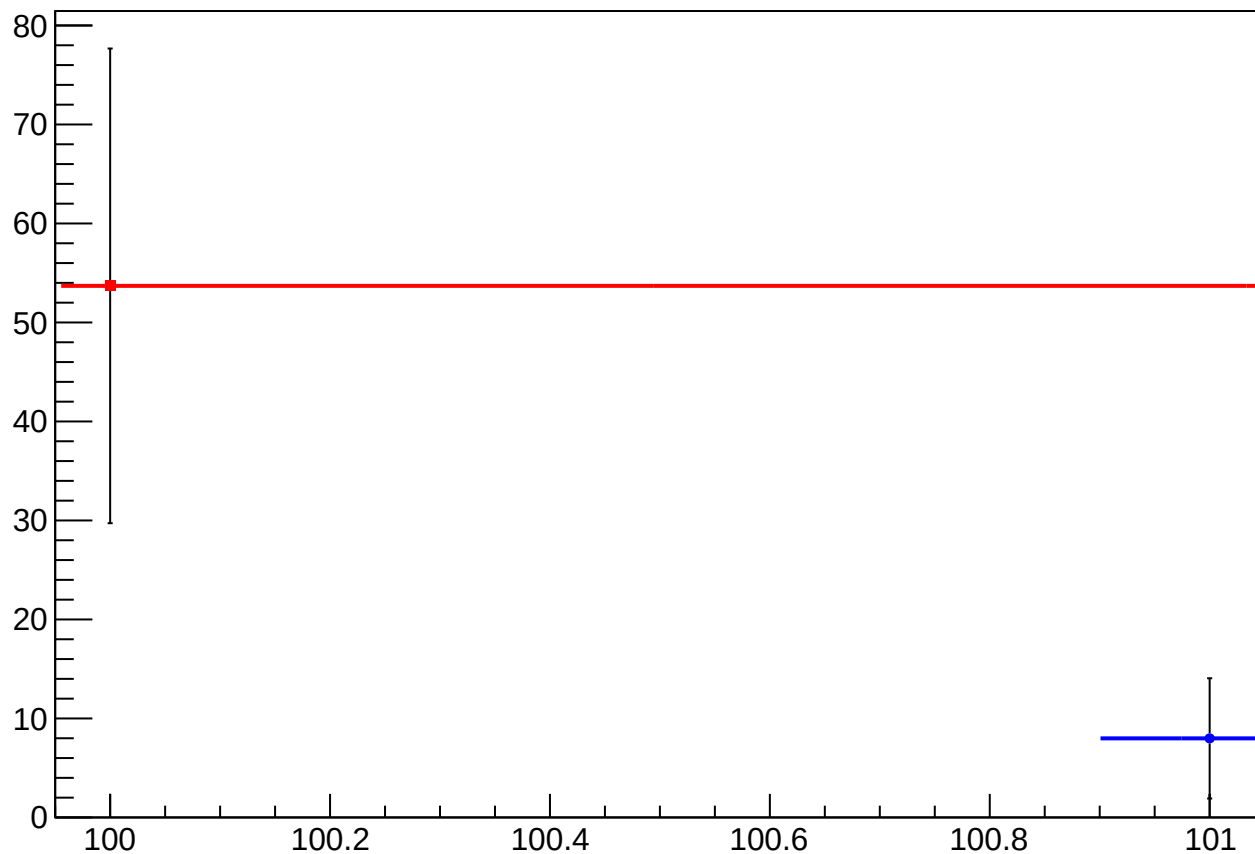
Right: -1.823+/-6.202  $\chi^2/\text{NDF}$ : 0.9/1

In: -0.564+/-6.336  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.823+/-6.202  $\chi^2/\text{NDF}$ : 0.9/1

reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 7.989+/-6.074  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.698+/-23.975  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

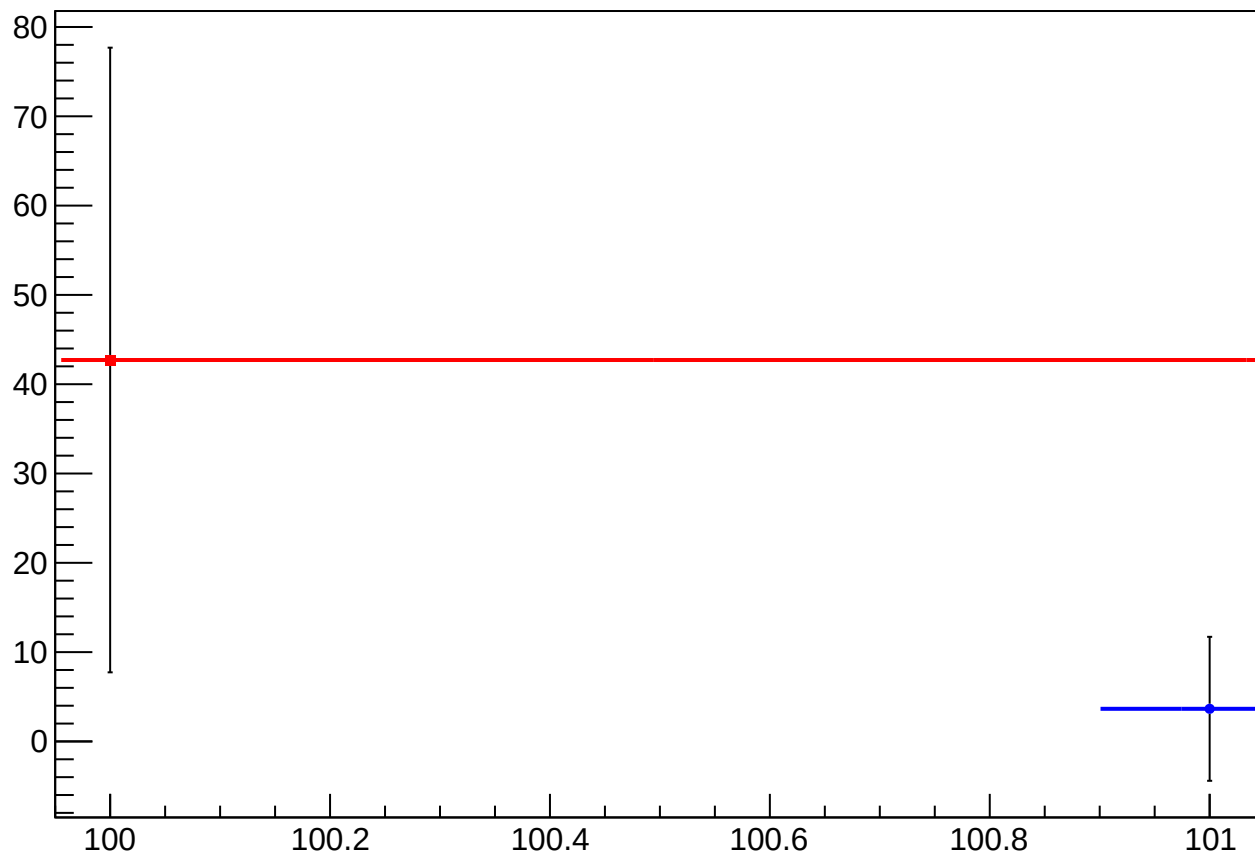
Right: 10.746+/-5.888  $\chi^2/\text{NDF}$ : 3.4/1

In: 7.989+/-6.074  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.746+/-5.888  $\chi^2/\text{NDF}$ : 3.4/1

reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 3.653+/-8.061  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 42.710+/-34.974  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

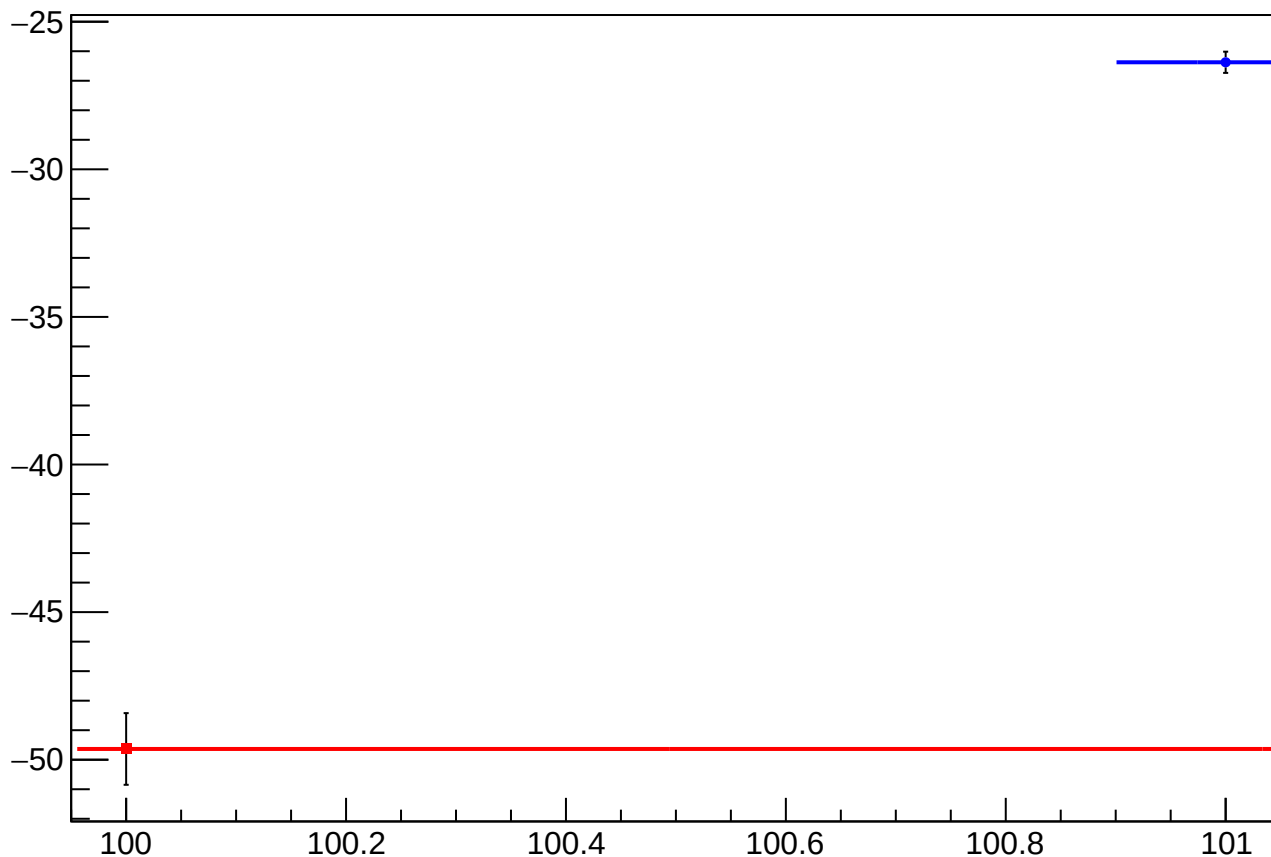
Right: 5.623+/-7.855  $\chi^2/\text{NDF}$ : 1.2/1

In: 3.653+/-8.061  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.623+/-7.855  $\chi^2/\text{NDF}$ : 1.2/1

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -26.374 $\pm$ 0.359  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -49.635 $\pm$ 1.214  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

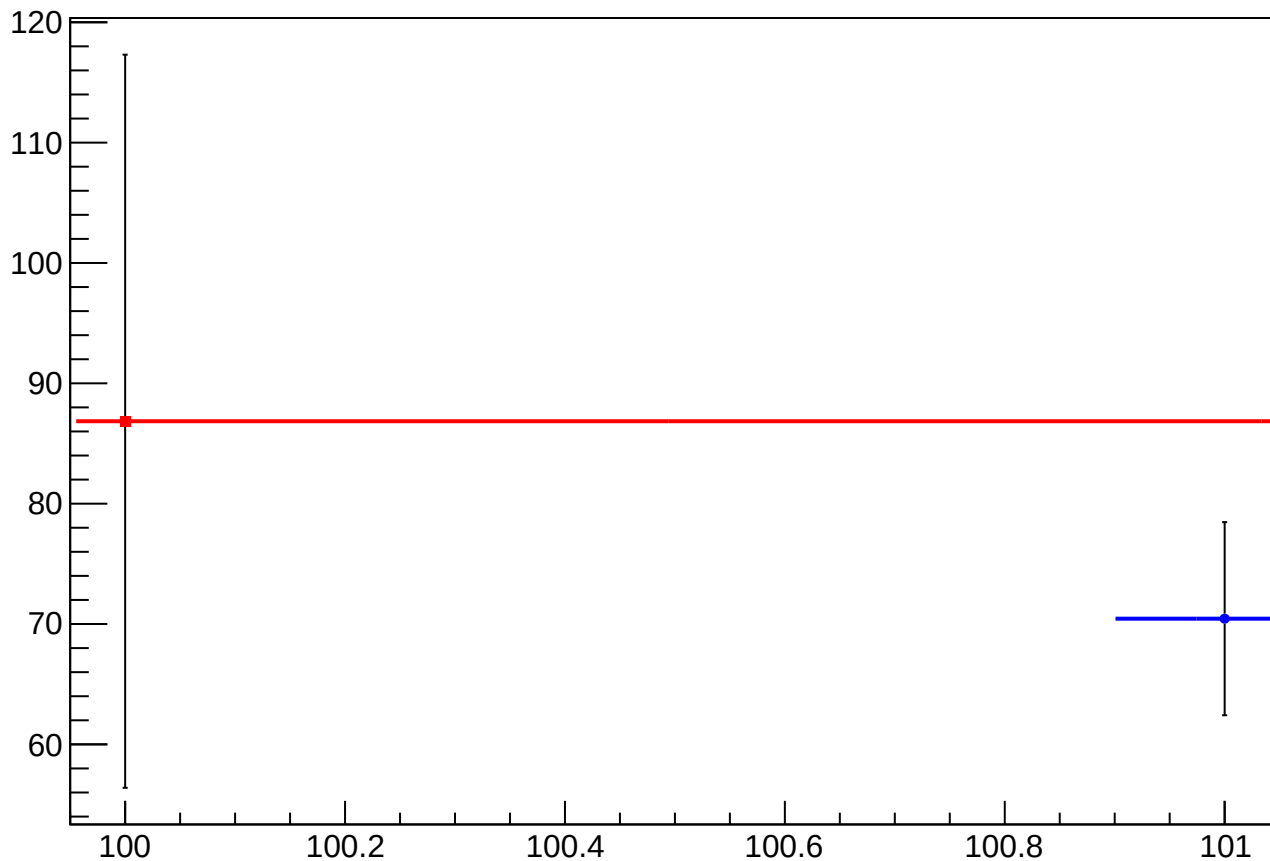
Right: -28.249 $\pm$ 0.345  $\chi^2$ /NDF: 337.5/1

In: -26.374 $\pm$ 0.359  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -28.249 $\pm$ 0.345  $\chi^2$ /NDF: 337.5/1

reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 70.443+/-8.023  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 86.850+/-30.458  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 71.508+/-7.758  $\chi^2/\text{NDF}$ : 0.3/1

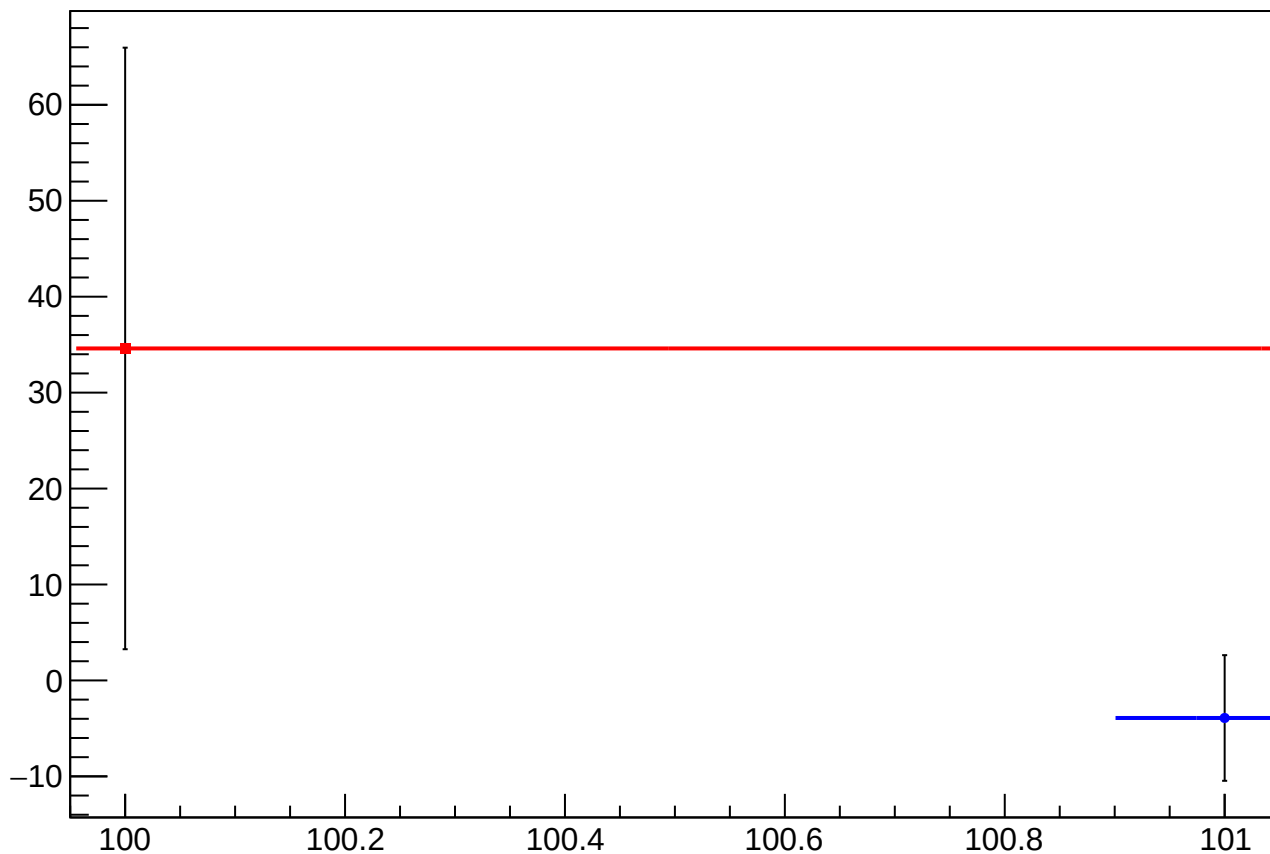
In: 70.443+/-8.023  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 71.508+/-7.758  $\chi^2/\text{NDF}$ : 0.3/1



reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.914+/-6.548  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 34.605+/-31.352  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

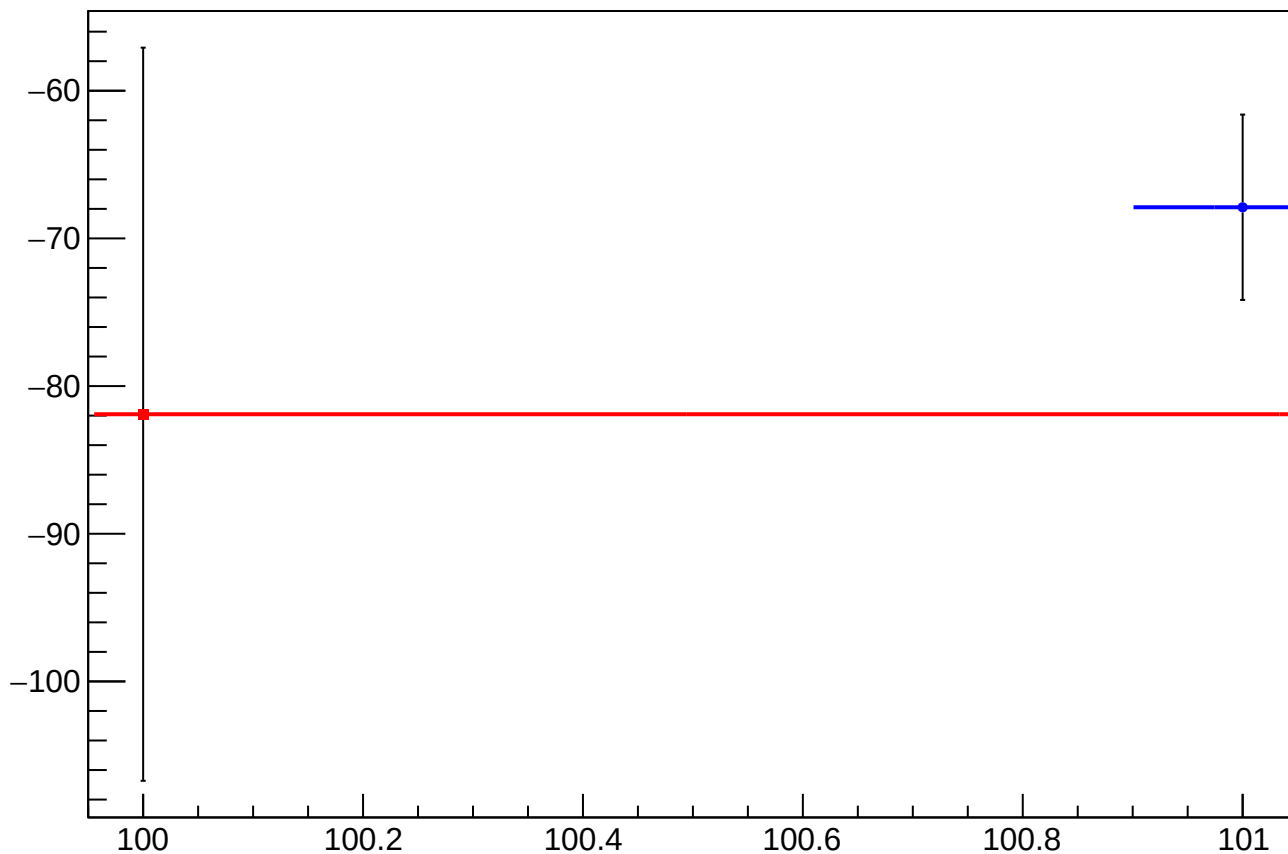
Right: -2.304+/-6.410  $\chi^2/\text{NDF}$ : 1.4/1

In: -3.914+/-6.548  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.304+/-6.410  $\chi^2/\text{NDF}$ : 1.4/1

reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -67.891 $\pm$ 6.276  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -81.906 $\pm$ 24.822  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

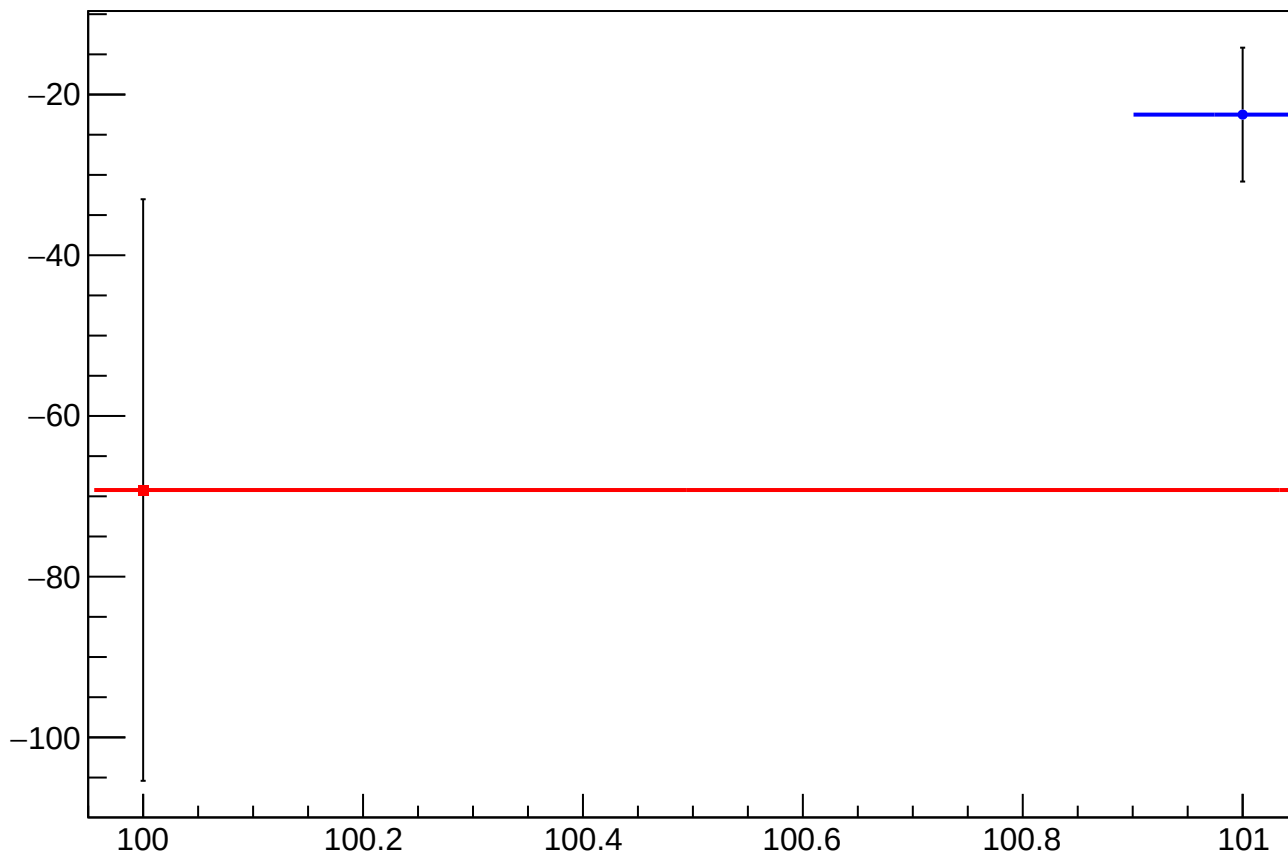
Right: -68.733 $\pm$ 6.084  $\chi^2$ /NDF: 0.3/1

In: -67.891 $\pm$ 6.276  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -68.733 $\pm$ 6.084  $\chi^2$ /NDF: 0.3/1

reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -22.499 $\pm$ 8.331  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -69.217 $\pm$ 36.187  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

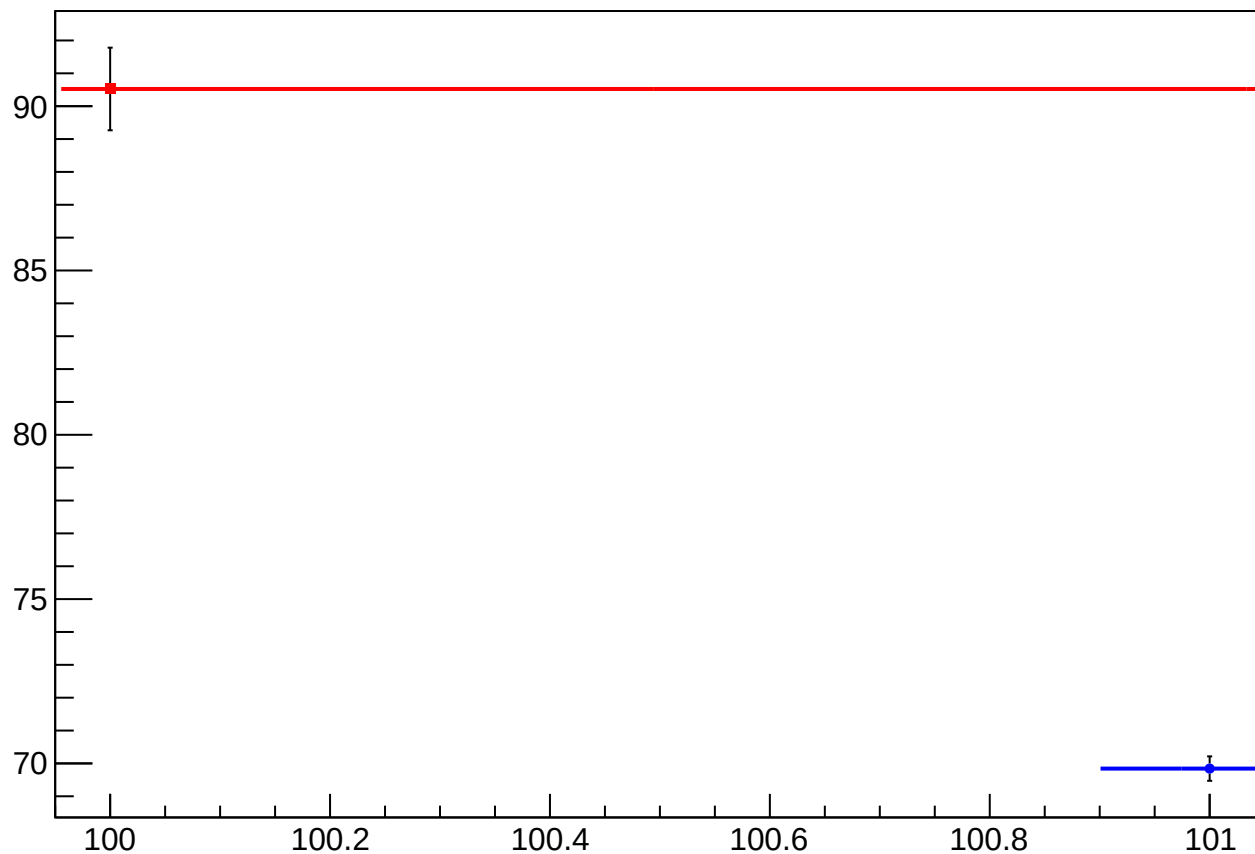
Right: -24.850 $\pm$ 8.118  $\chi^2$ /NDF: 1.6/1

In: -22.499 $\pm$ 8.331  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -24.850 $\pm$ 8.118  $\chi^2$ /NDF: 1.6/1

reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 69.843 $\pm$ 0.372  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 90.524 $\pm$ 1.257  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

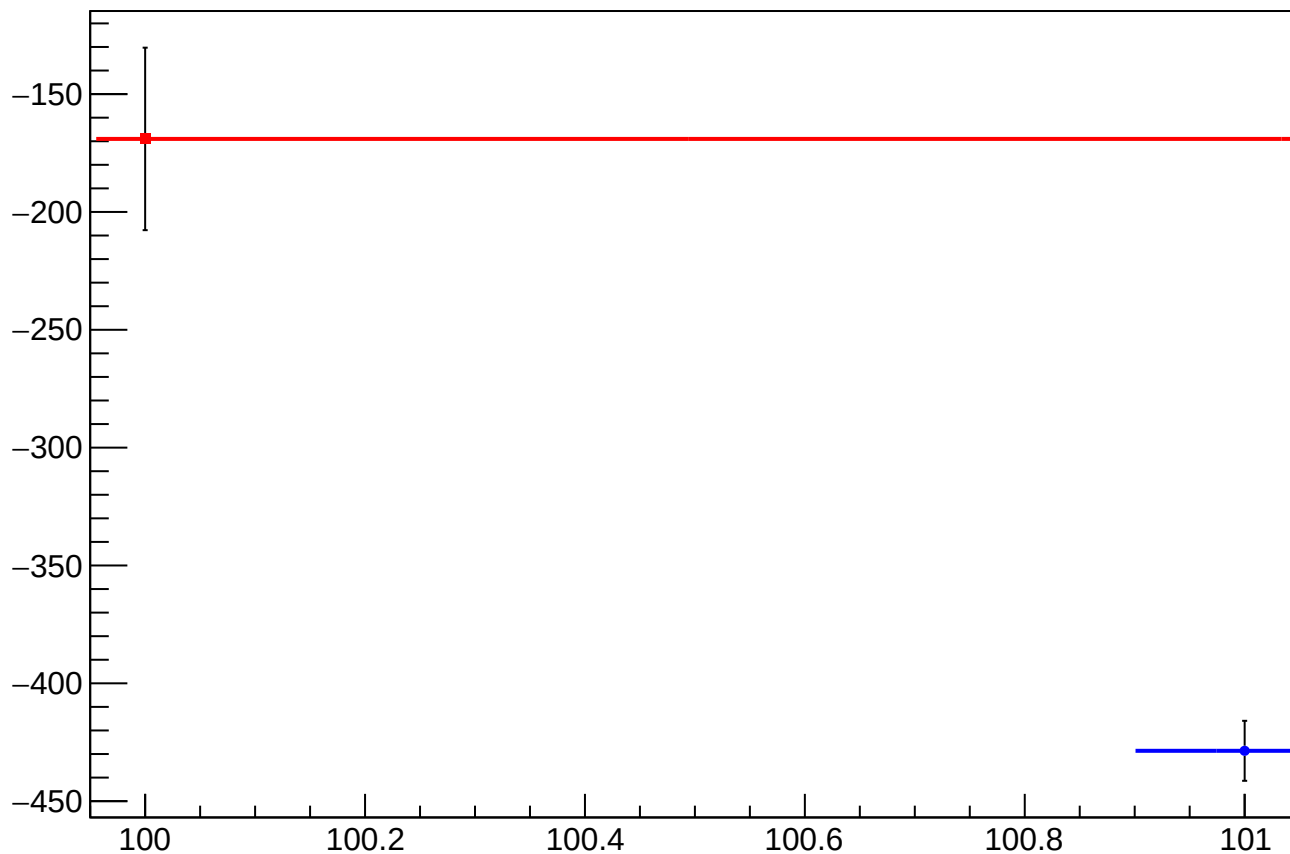
Right: 71.505 $\pm$ 0.356  $\chi^2$ /NDF: 249.0/1

In: 69.843 $\pm$ 0.372  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 71.505 $\pm$ 0.356  $\chi^2$ /NDF: 249.0/1

reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -428.635 $\pm$ 12.724  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -169.012 $\pm$ 38.714  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

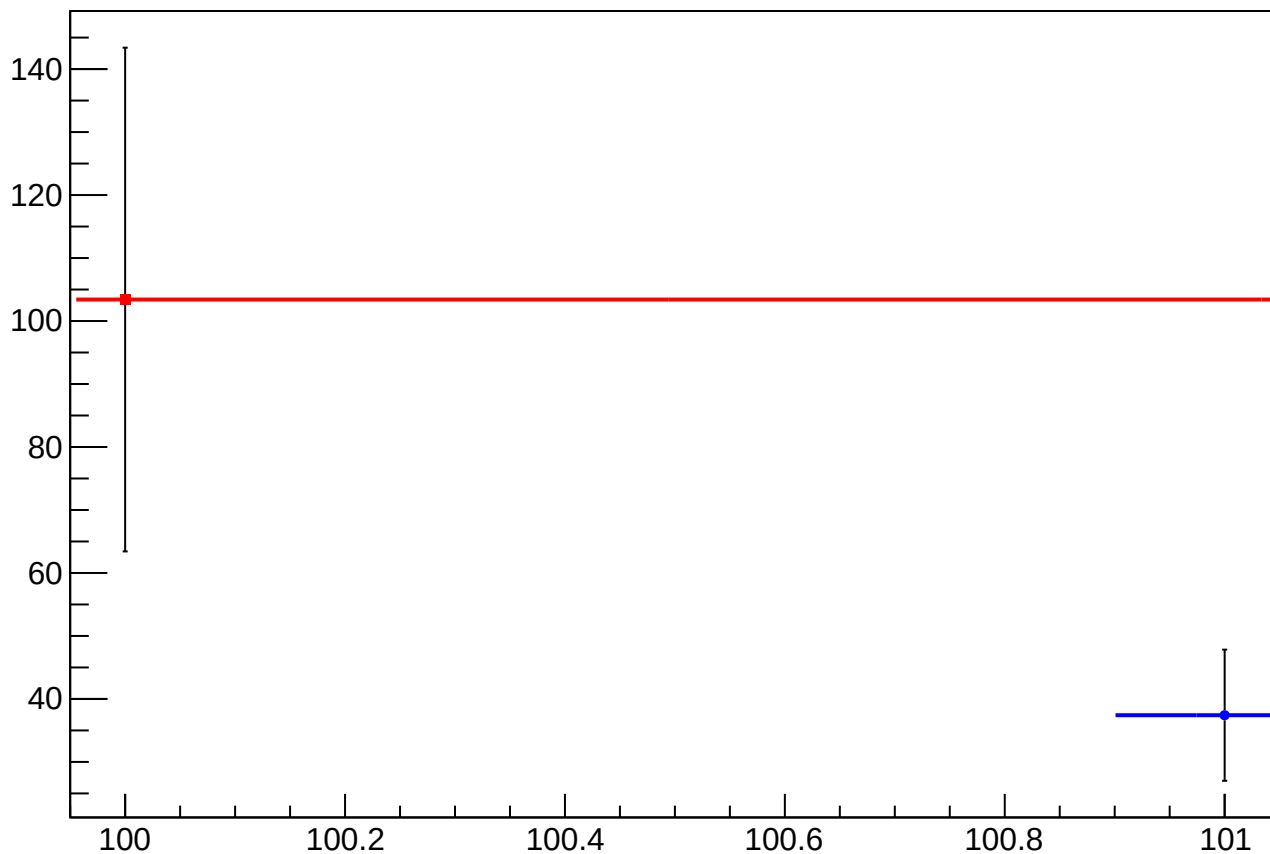
Right: -403.323 $\pm$ 12.088  $\chi^2$ /NDF: 40.6/1

In: -428.635 $\pm$ 12.724  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -403.323 $\pm$ 12.088  $\chi^2$ /NDF: 40.6/1

reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 37.416+/-10.412  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 103.410+/-39.988  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

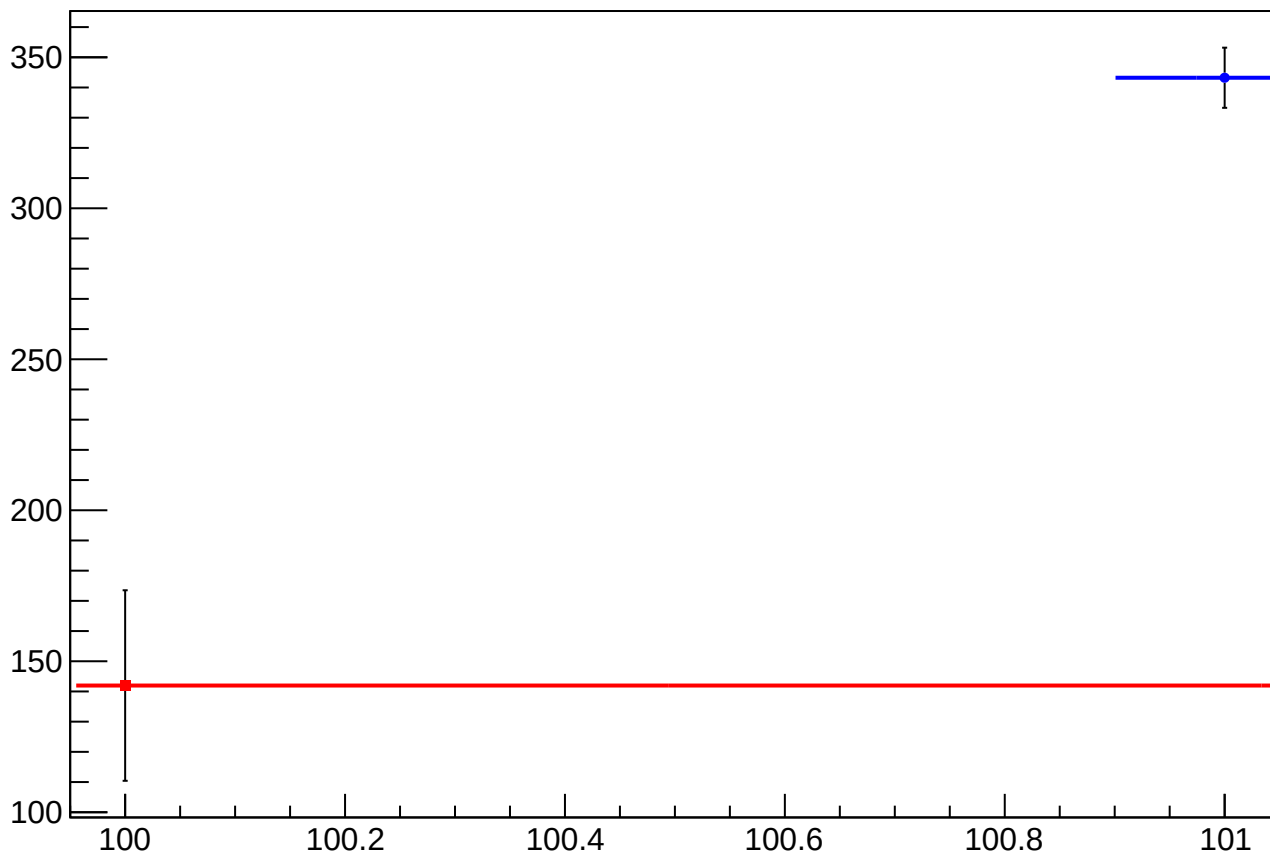
Right: 41.606+/-10.076  $\chi^2/\text{NDF}$ : 2.6/1

In: 37.416+/-10.412  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.606+/-10.076  $\chi^2/\text{NDF}$ : 2.6/1

reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 343.228+/-9.960  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 141.961+/-31.546  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

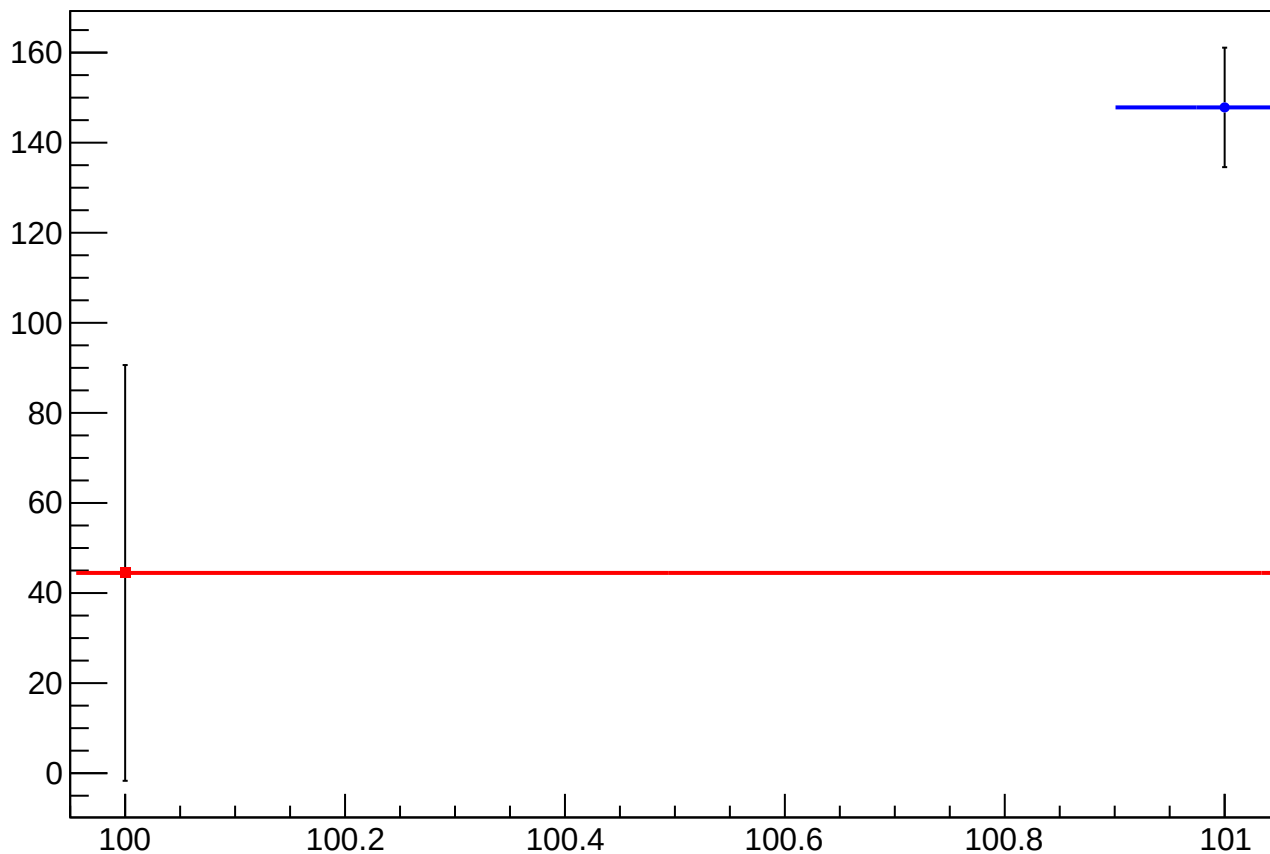
Right: 324.985+/-9.497  $\chi^2/\text{NDF}$ : 37.0/1

In: 343.228+/-9.960  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 324.985+/-9.497  $\chi^2/\text{NDF}$ : 37.0/1

reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 147.831 $\pm$ 13.263  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 44.469 $\pm$ 46.157  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 139.948 $\pm$ 12.748  $\chi^2$ /NDF: 4.6/1

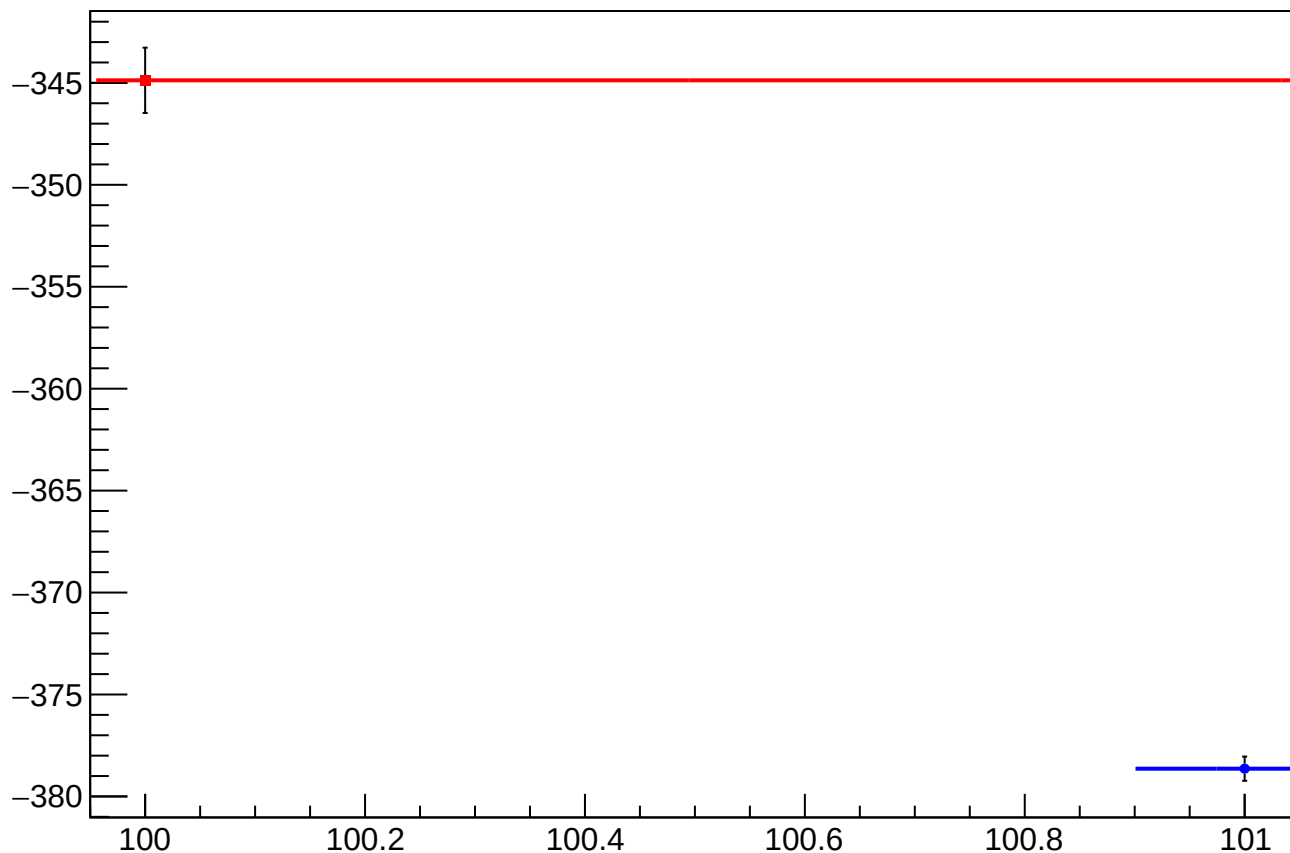
In: 147.831 $\pm$ 13.263  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 139.948 $\pm$ 12.748  $\chi^2$ /NDF: 4.6/1



reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -378.639 $\pm$ 0.595  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -344.874 $\pm$ 1.601  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

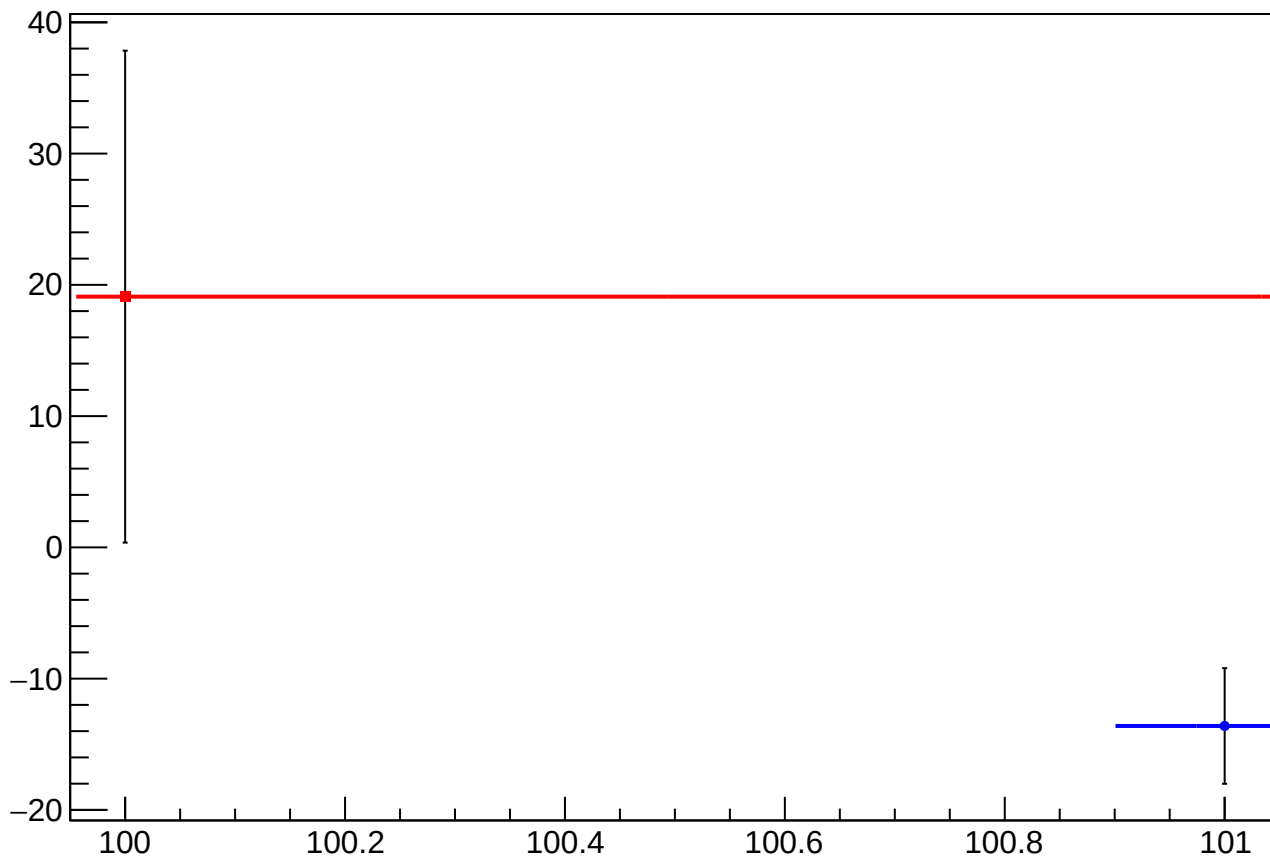
Right: -374.544 $\pm$ 0.557  $\chi^2$ /NDF: 391.1/1

In: -378.639 $\pm$ 0.595  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -374.544 $\pm$ 0.557  $\chi^2$ /NDF: 391.1/1

reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -13.604 $\pm$ 4.406  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.102 $\pm$ 18.739  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

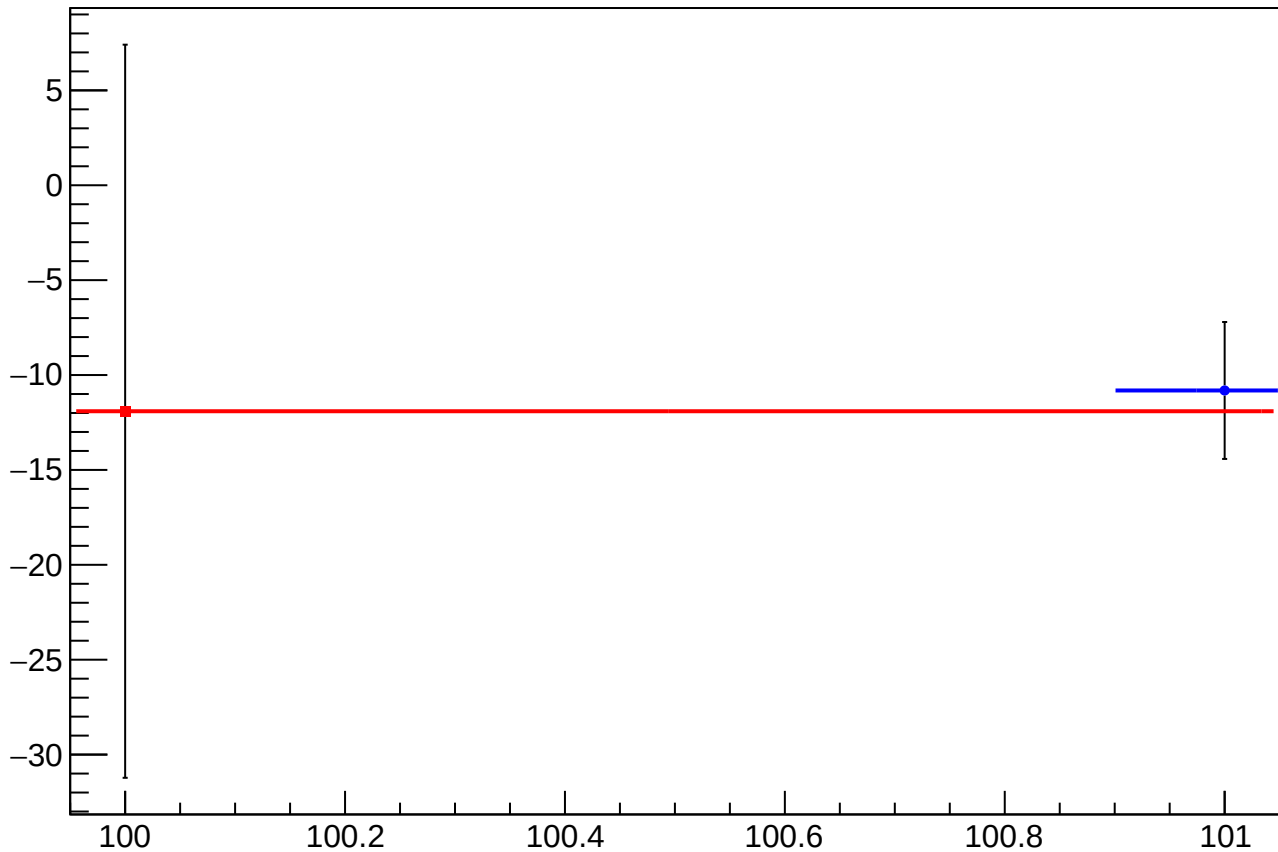
Right: -11.891 $\pm$ 4.289  $\chi^2$ /NDF: 2.9/1

In: -13.604 $\pm$ 4.406  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.891 $\pm$ 4.289  $\chi^2$ /NDF: 2.9/1

reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -10.813 $\pm$ 3.608  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -11.908 $\pm$ 19.315  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

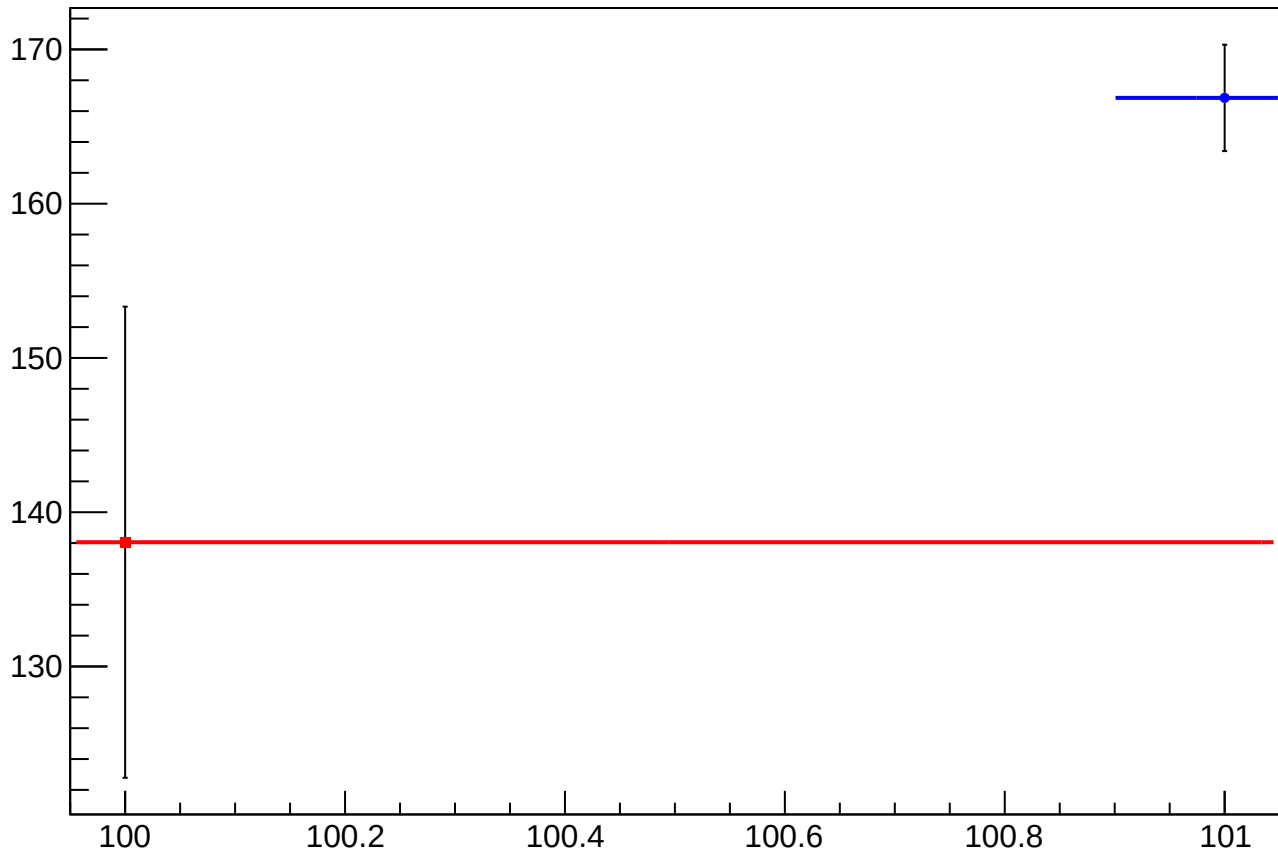
Right: -10.850 $\pm$ 3.546  $\chi^2$ /NDF: 0.0/1

In: -10.813 $\pm$ 3.608  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -10.850 $\pm$ 3.546  $\chi^2$ /NDF: 0.0/1

reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 166.859 $\pm$ 3.449  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 138.055 $\pm$ 15.271  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

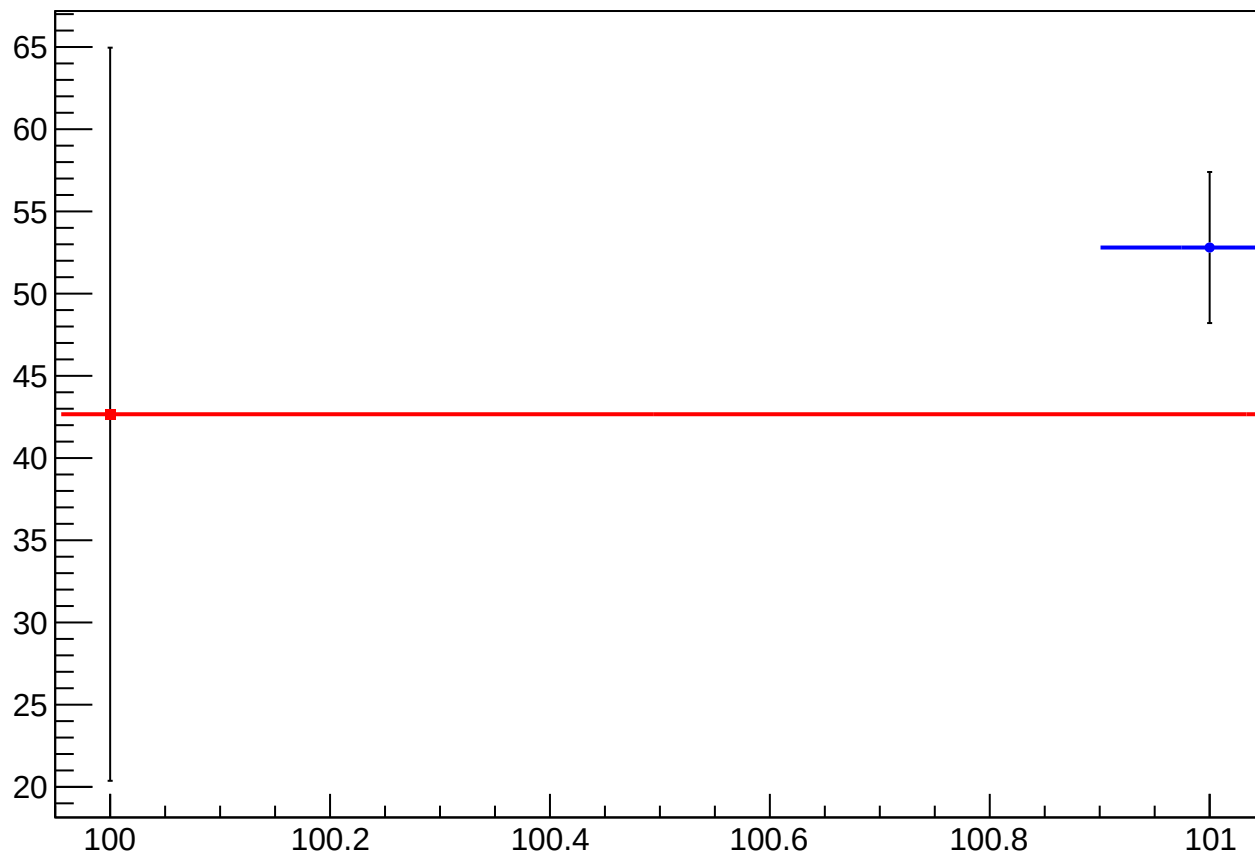
Right: 165.461 $\pm$ 3.364  $\chi^2$ /NDF: 3.4/1

In: 166.859 $\pm$ 3.449  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 165.461 $\pm$ 3.364  $\chi^2$ /NDF: 3.4/1

reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 52.804 $\pm$ 4.594  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 42.665 $\pm$ 22.294  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

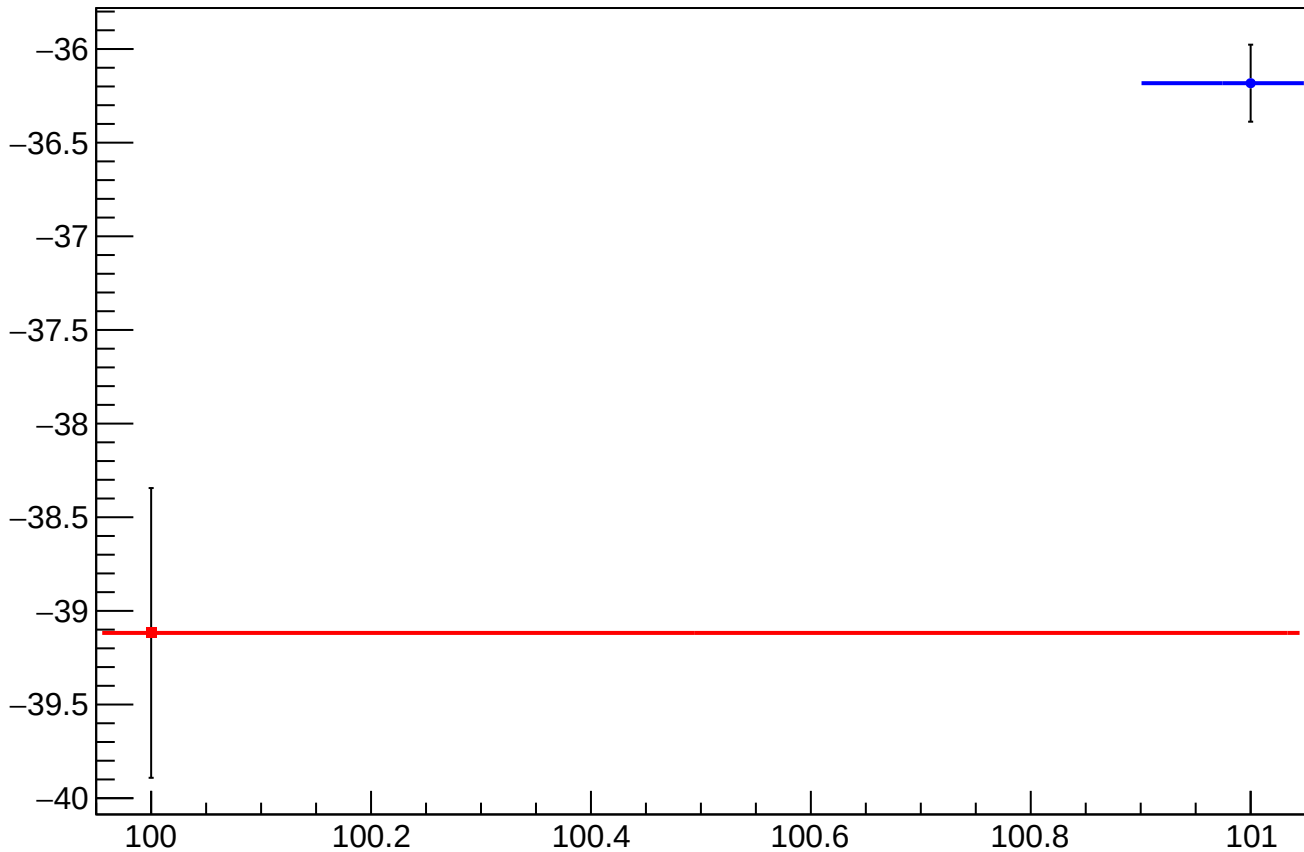
Right: 52.391 $\pm$ 4.499  $\chi^2$ /NDF: 0.2/1

In: 52.804 $\pm$ 4.594  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 52.391 $\pm$ 4.499  $\chi^2$ /NDF: 0.2/1

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -36.182 $\pm$ 0.206  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -39.118 $\pm$ 0.774  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

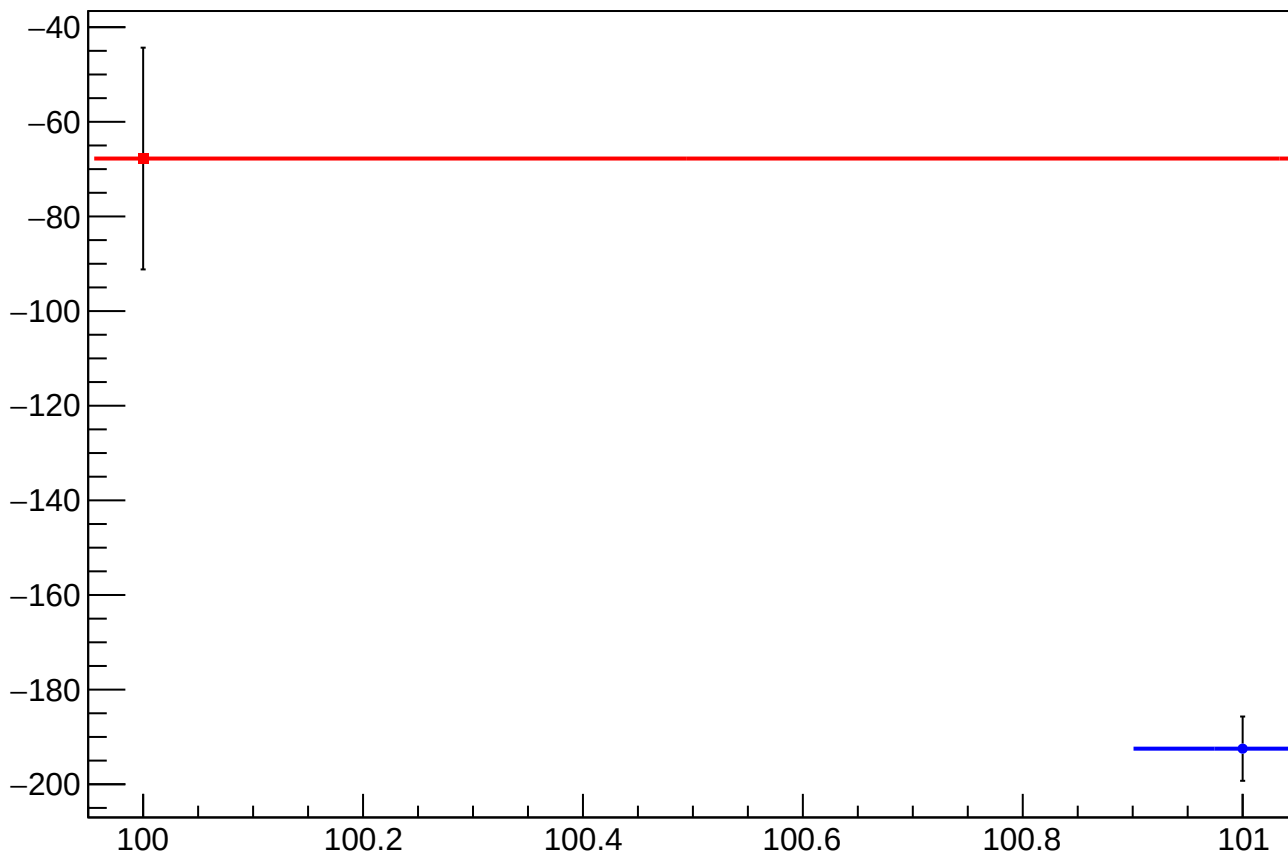
Right: -36.376 $\pm$ 0.199  $\chi^2$ /NDF: 13.4/1

In: -36.182 $\pm$ 0.206  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -36.376 $\pm$ 0.199  $\chi^2$ /NDF: 13.4/1

reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -192.477+/-6.792  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -67.762+/-23.431  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

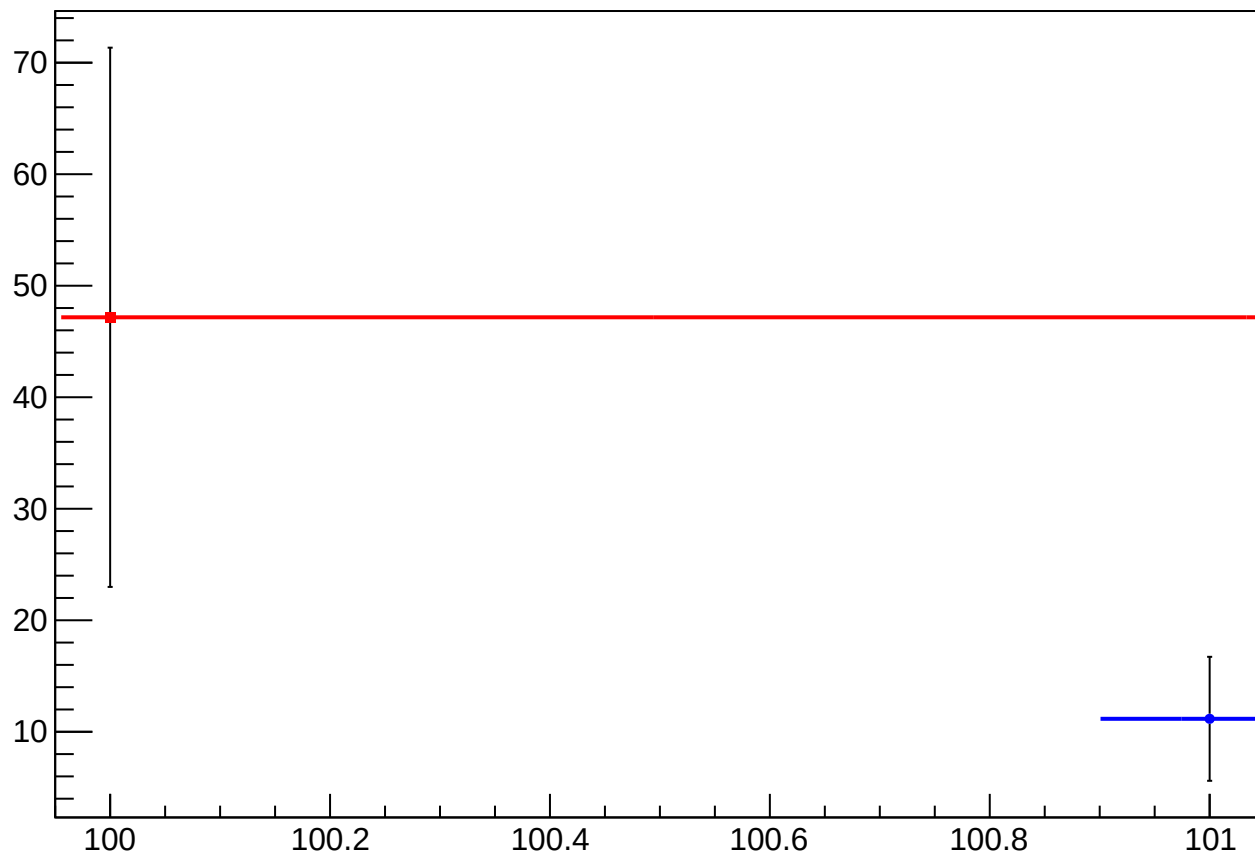
Right: -182.811+/-6.523  $\chi^2/\text{NDF}$ : 26.1/1

In: -192.477+/-6.792  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -182.811+/-6.523  $\chi^2/\text{NDF}$ : 26.1/1

reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 11.164+/-5.559  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 47.169+/-24.178  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 12.972+/-5.418  $\chi^2/\text{NDF}$ : 2.1/1

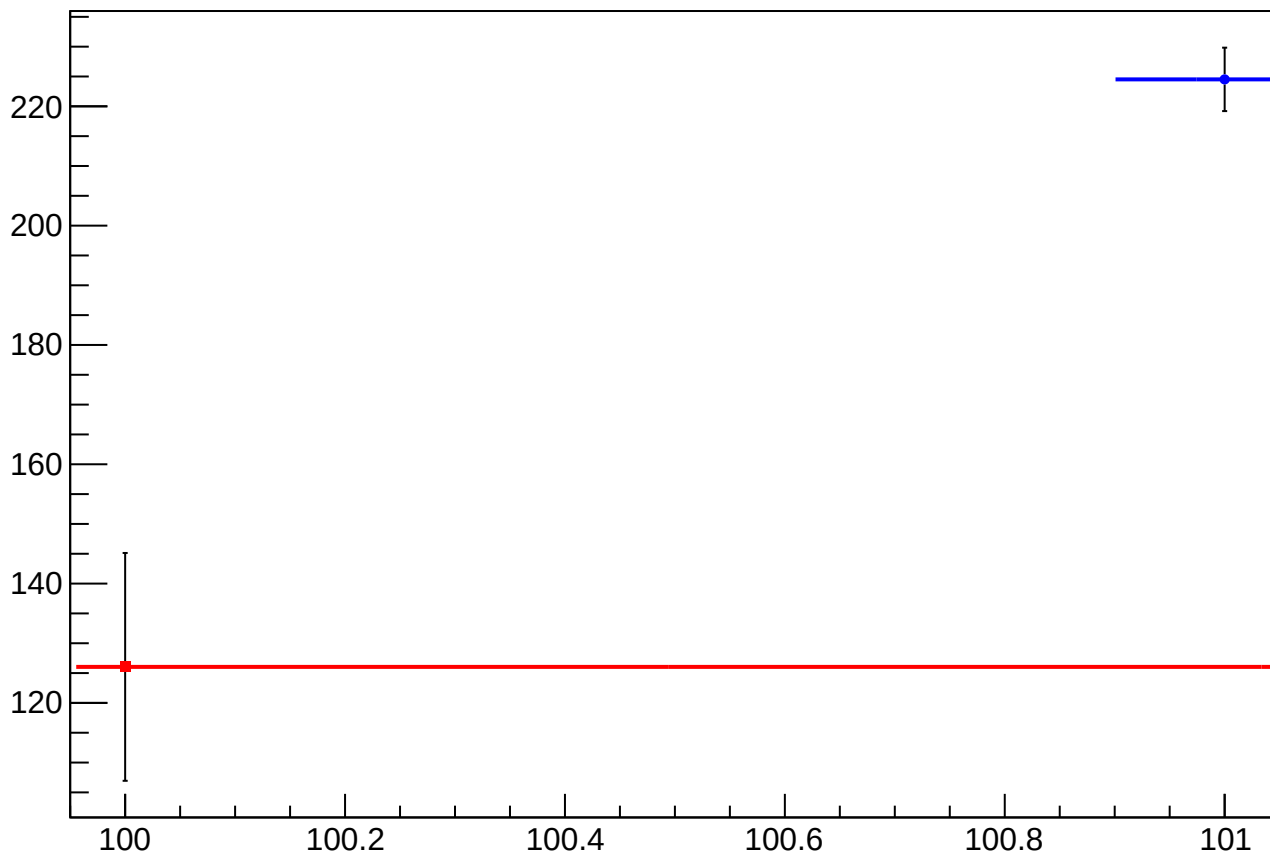
In: 11.164+/-5.559  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.972+/-5.418  $\chi^2/\text{NDF}$ : 2.1/1



reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 224.516 $\pm$ 5.315  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 126.037 $\pm$ 19.094  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

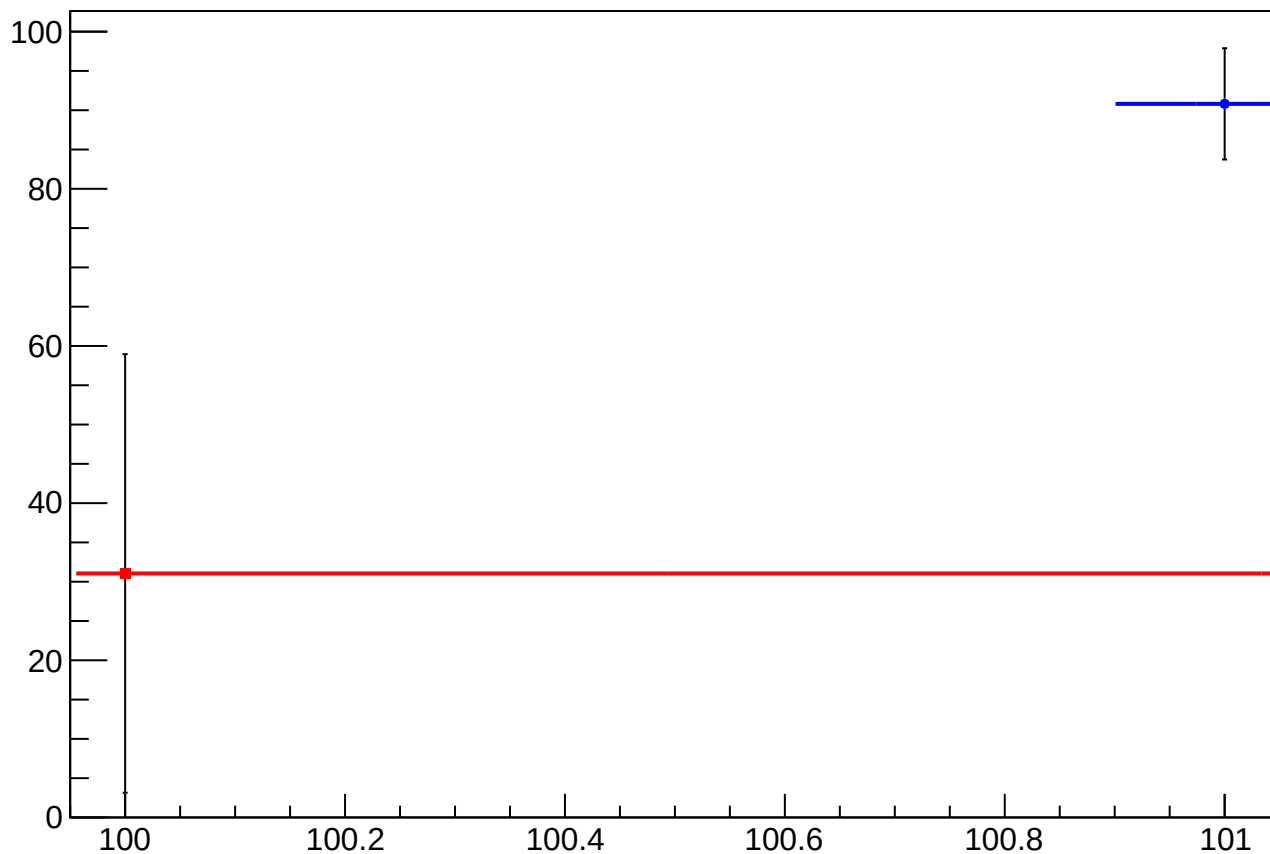
Right: 217.433 $\pm$ 5.121  $\chi^2$ /NDF: 24.7/1

In: 224.516 $\pm$ 5.315  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 217.433 $\pm$ 5.121  $\chi^2$ /NDF: 24.7/1

reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 90.809+/-7.079  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 31.052+/-27.907  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

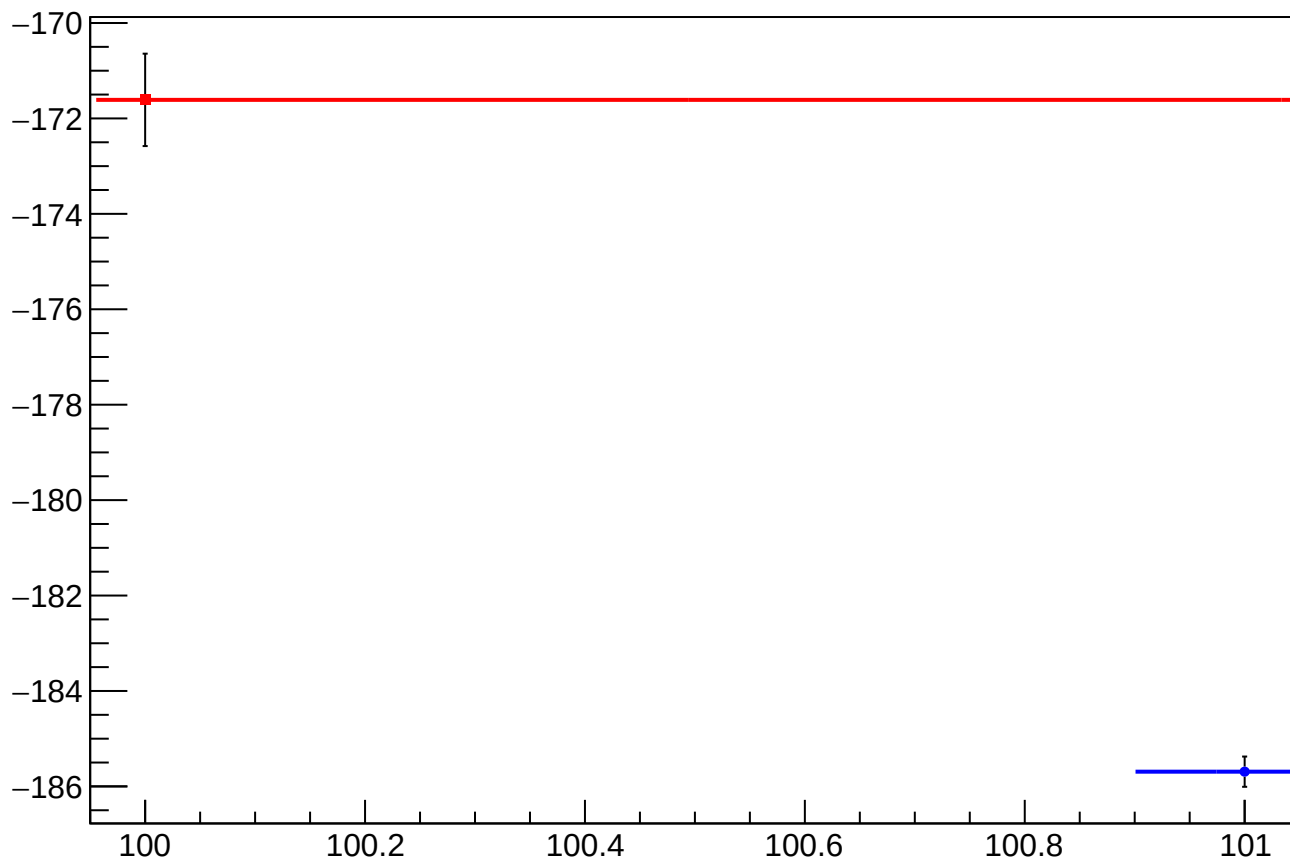
Right: 87.196+/-6.862  $\chi^2$ /NDF: 4.3/1

In: 90.809+/-7.079  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 87.196+/-6.862  $\chi^2$ /NDF: 4.3/1

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -185.691±/0.317  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -171.611±/0.968  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

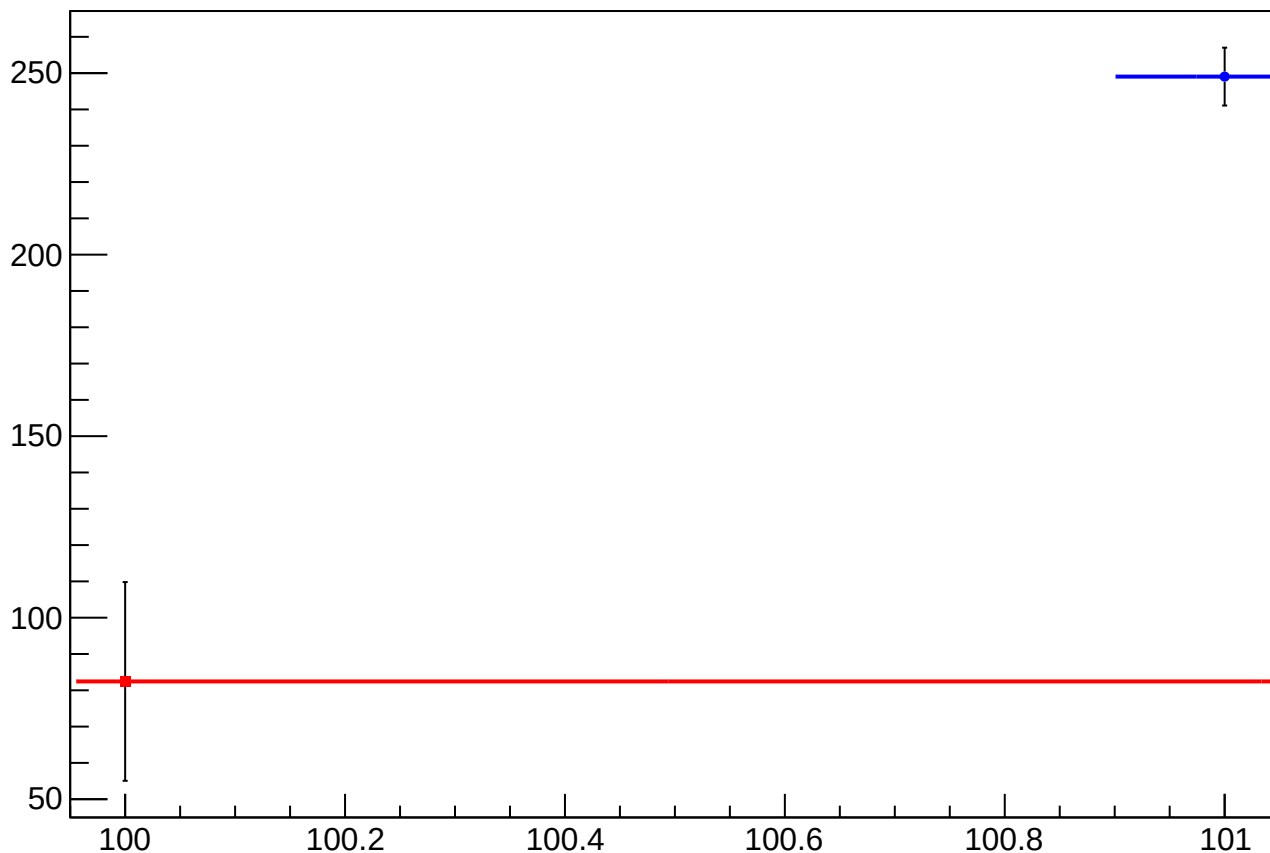
Right: -184.328±/0.301  $\chi^2/\text{NDF}$ : 191.0/1

In: -185.691±/0.317  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -184.328±/0.301  $\chi^2/\text{NDF}$ : 191.0/1

reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 249.046 $\pm$ 7.969  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 82.441 $\pm$ 27.371  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

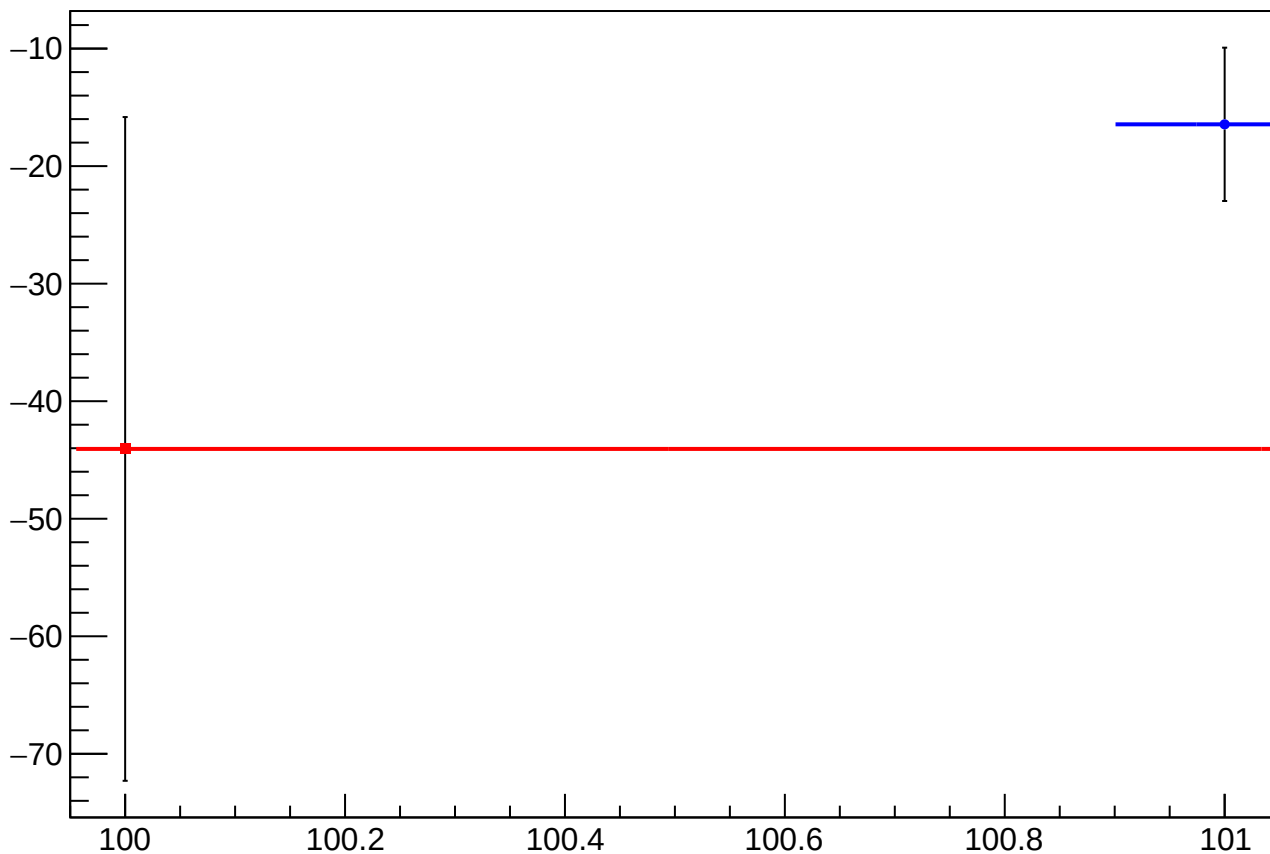
Right: 236.026 $\pm$ 7.652  $\chi^2/\text{NDF}$ : 34.2/1

In: 249.046 $\pm$ 7.969  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 236.026 $\pm$ 7.652  $\chi^2/\text{NDF}$ : 34.2/1

reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -16.444 $\pm$ 6.522  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -44.060 $\pm$ 28.236  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

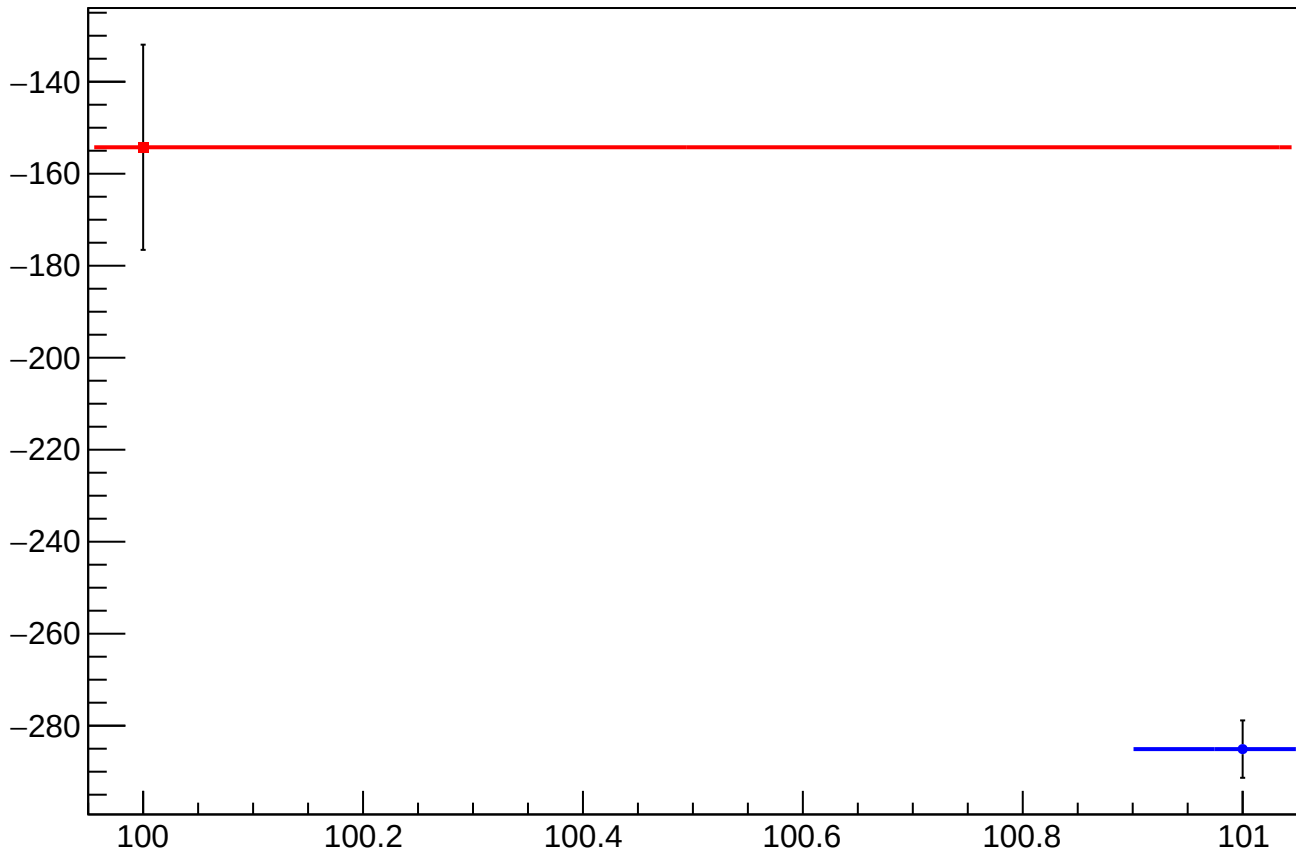
Right: -17.843 $\pm$ 6.355  $\chi^2$ /NDF: 0.9/1

In: -16.444 $\pm$ 6.522  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -17.843 $\pm$ 6.355  $\chi^2$ /NDF: 0.9/1

reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -285.089+/-6.237  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -154.249+/-22.305  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

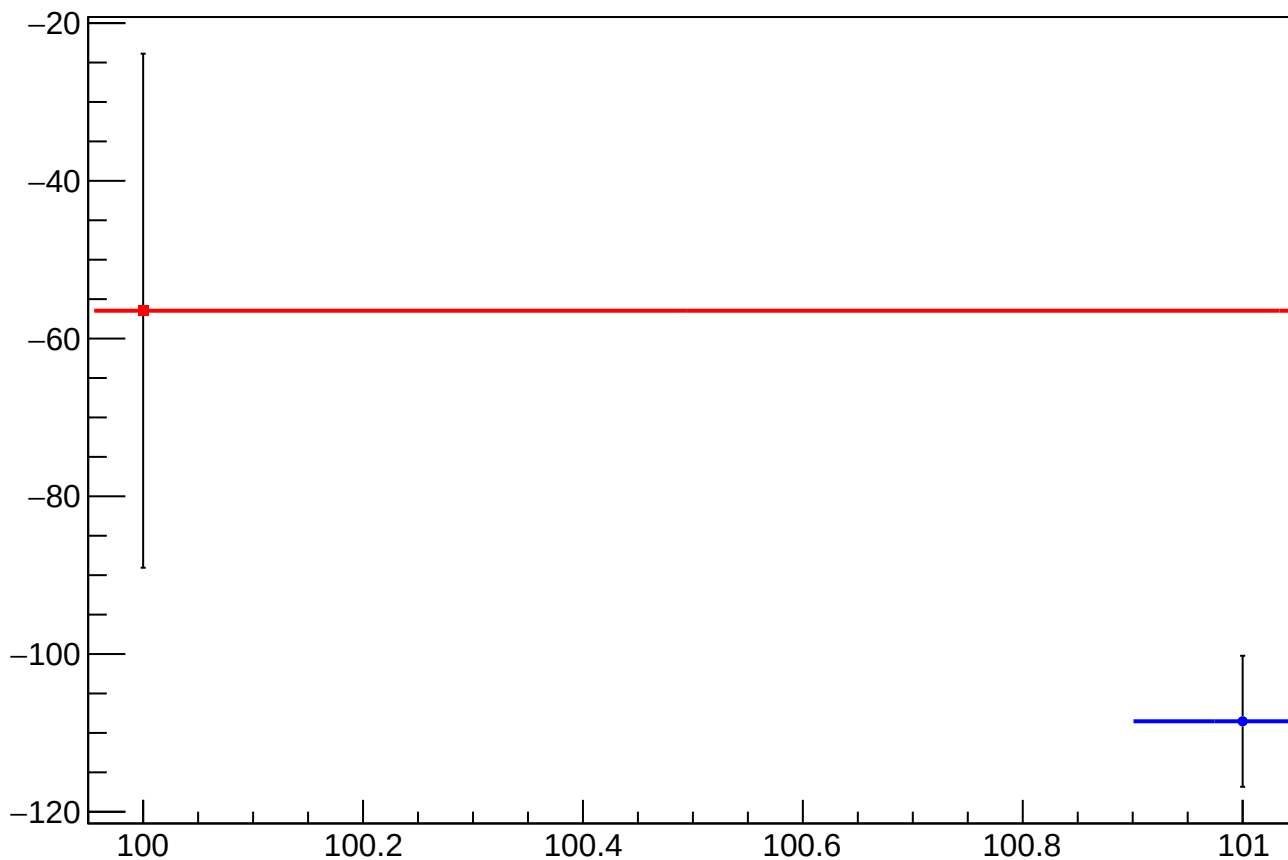
Right: -275.599+/-6.007  $\chi^2/\text{NDF}$ : 31.9/1

In: -285.089+/-6.237  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -275.599+/-6.007  $\chi^2/\text{NDF}$ : 31.9/1

reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -108.526+/-8.307  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -56.466+/-32.591  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

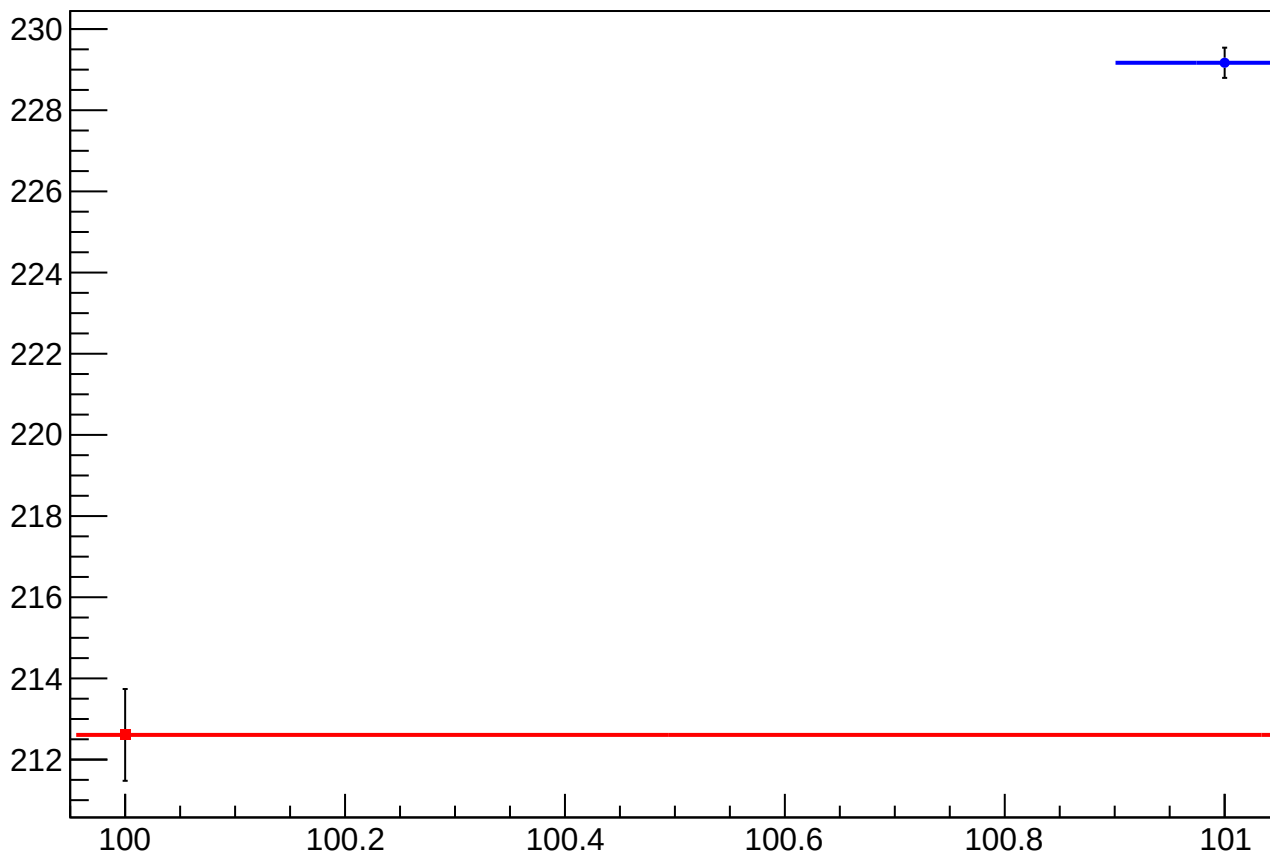
Right: -105.351+/-8.049  $\chi^2/\text{NDF}$ : 2.4/1

In: -108.526+/-8.307  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -105.351+/-8.049  $\chi^2/\text{NDF}$ : 2.4/1

reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 229.169 $\pm$ 0.372  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 212.608 $\pm$ 1.131  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 227.551 $\pm$ 0.353  $\chi^2$ /NDF: 193.5/1

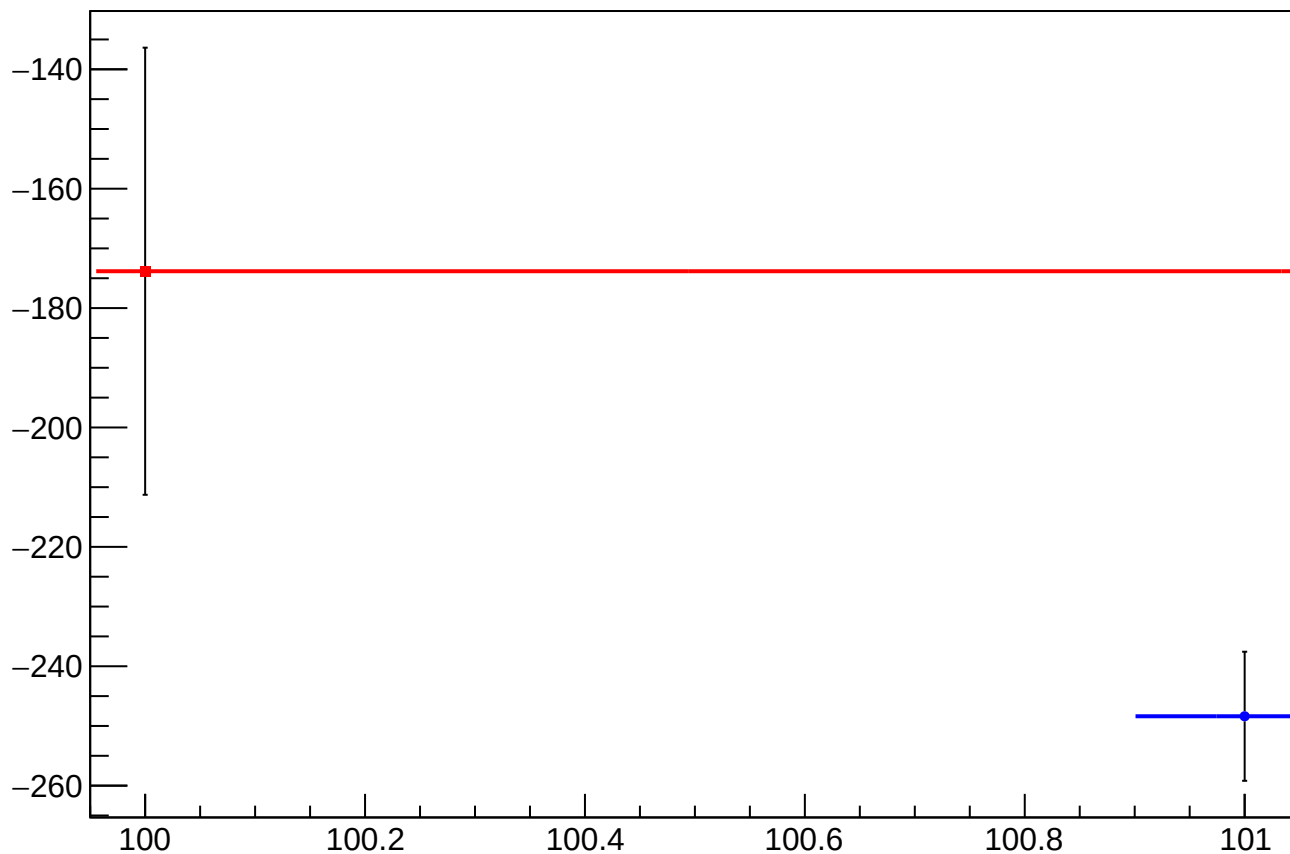
In: 229.169 $\pm$ 0.372  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 227.551 $\pm$ 0.353  $\chi^2$ /NDF: 193.5/1



reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -248.377 $\pm$ 10.811  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -173.826 $\pm$ 37.450  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

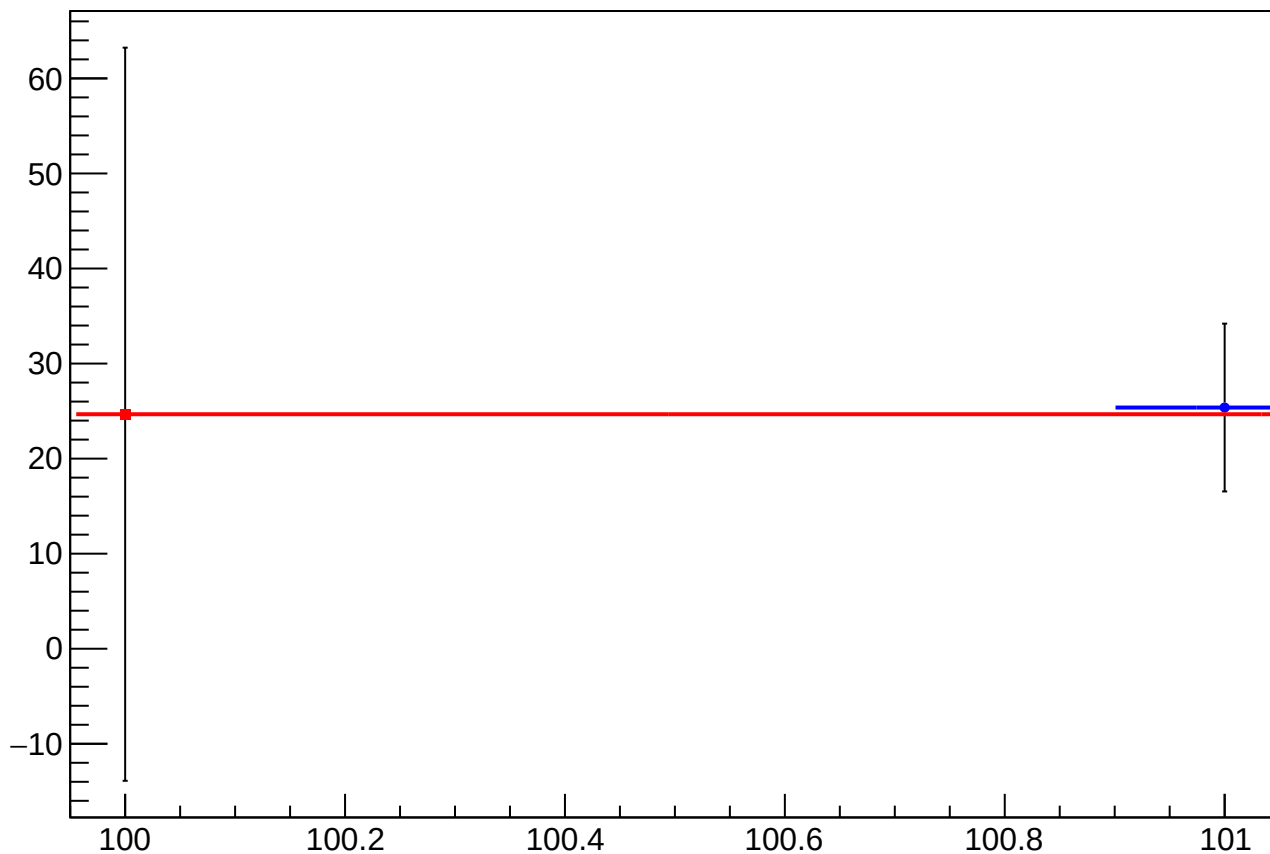
Right: -242.642 $\pm$ 10.387  $\chi^2$ /NDF: 3.7/1

In: -248.377 $\pm$ 10.811  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -242.642 $\pm$ 10.387  $\chi^2$ /NDF: 3.7/1

reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 25.373+/-8.826  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 24.669+/-38.564  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

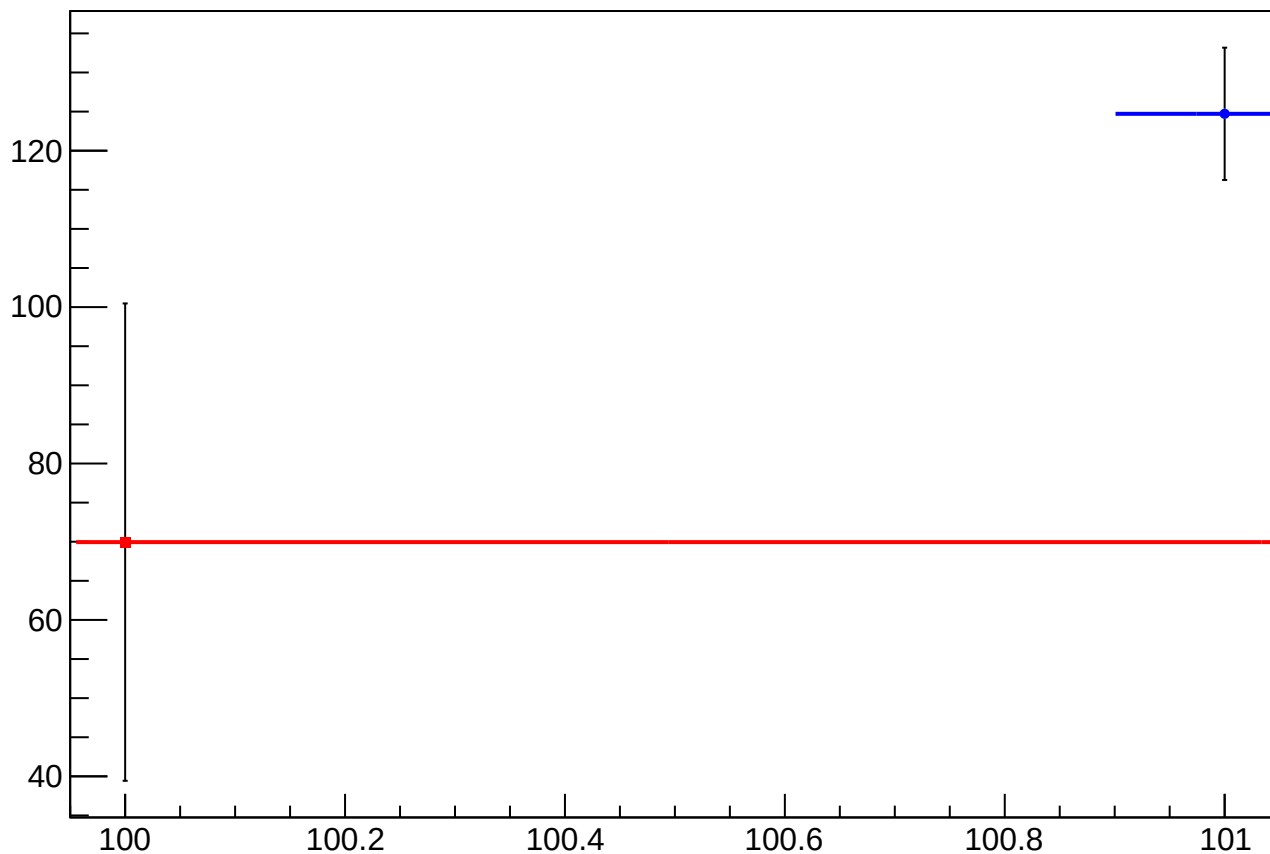
Right: 25.338+/-8.604  $\chi^2/\text{NDF}$ : 0.0/1

In: 25.373+/-8.826  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.338+/-8.604  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 124.715+/-8.458  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 69.950+/-30.520  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

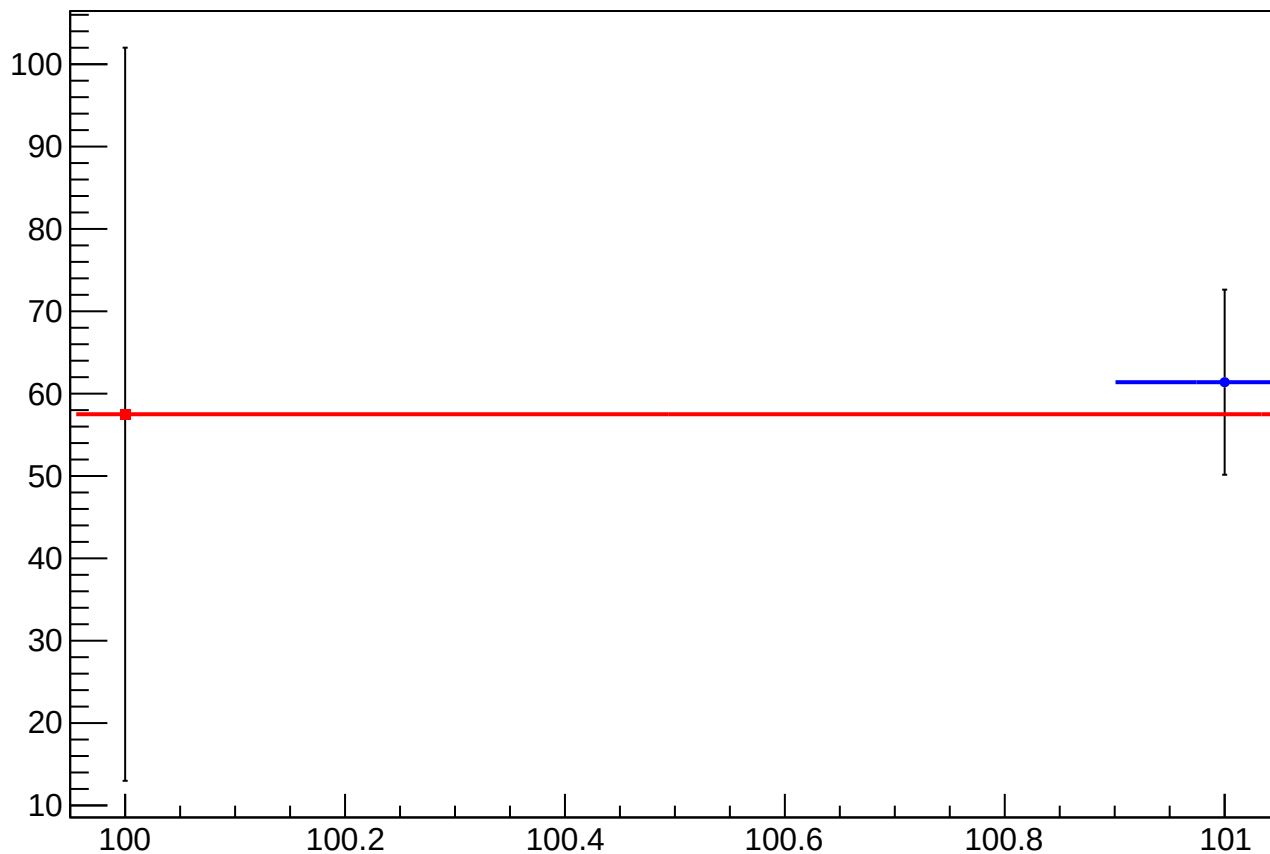
Right: 120.809+/-8.151  $\chi^2/\text{NDF}$ : 3.0/1

In: 124.715+/-8.458  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 120.809+/-8.151  $\chi^2/\text{NDF}$ : 3.0/1

reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 61.390 $\pm$ 11.237  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 57.500 $\pm$ 44.510  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

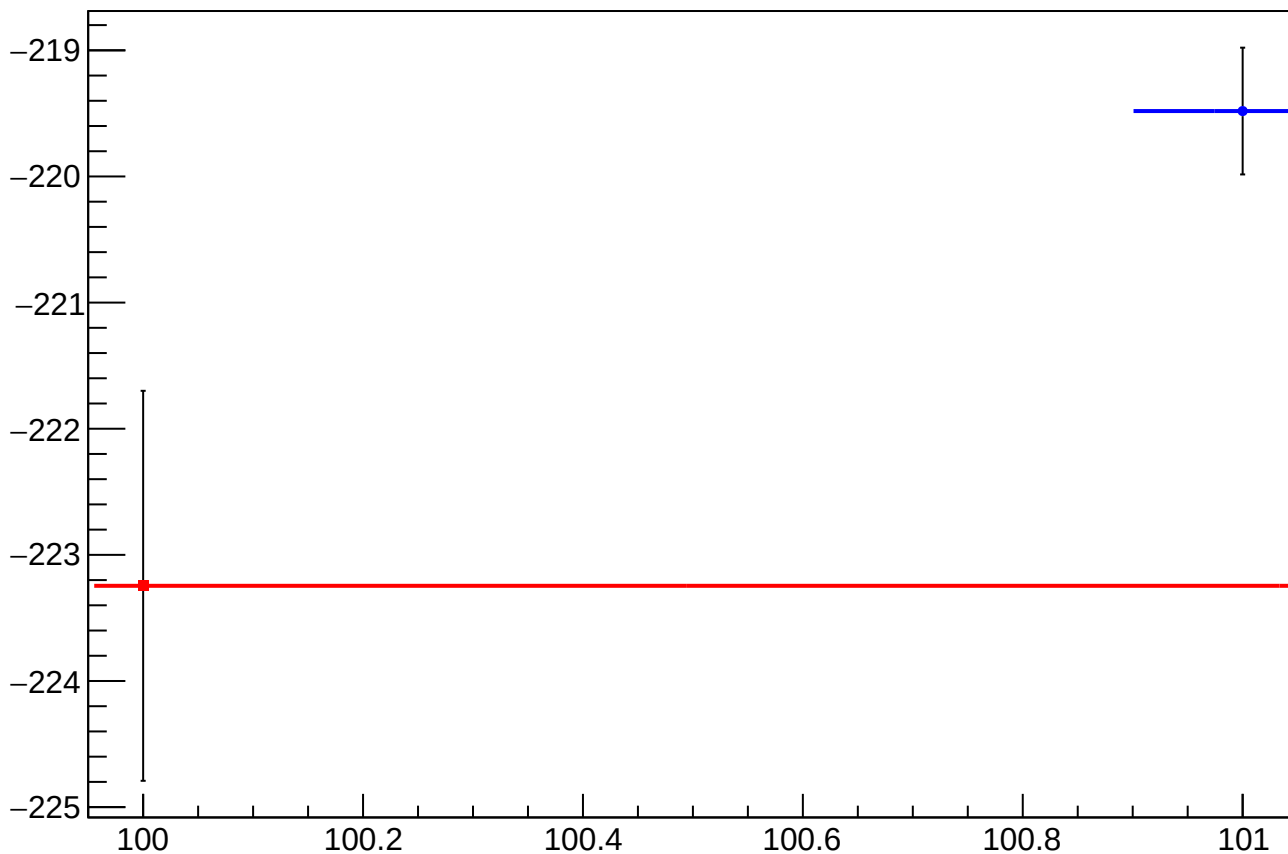
Right: 61.157 $\pm$ 10.895  $\chi^2$ /NDF: 0.0/1

In: 61.390 $\pm$ 11.237  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 61.157 $\pm$ 10.895  $\chi^2$ /NDF: 0.0/1

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -219.481 $\pm$ 0.503  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -223.245 $\pm$ 1.546  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

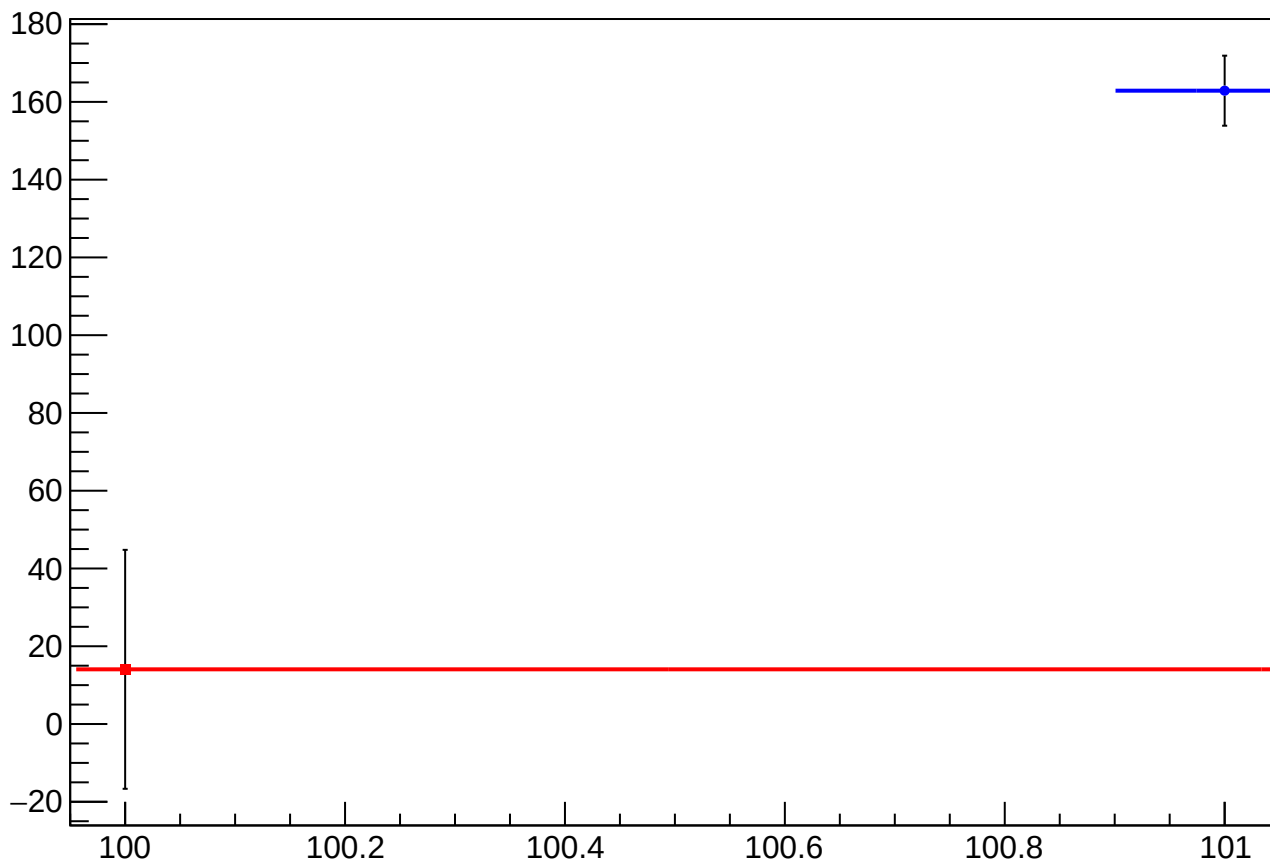
Right: -219.841 $\pm$ 0.478  $\chi^2$ /NDF: 5.4/1

In: -219.481 $\pm$ 0.503  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -219.841 $\pm$ 0.478  $\chi^2$ /NDF: 5.4/1

reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 162.881+/-9.006  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 14.065+/-30.726  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

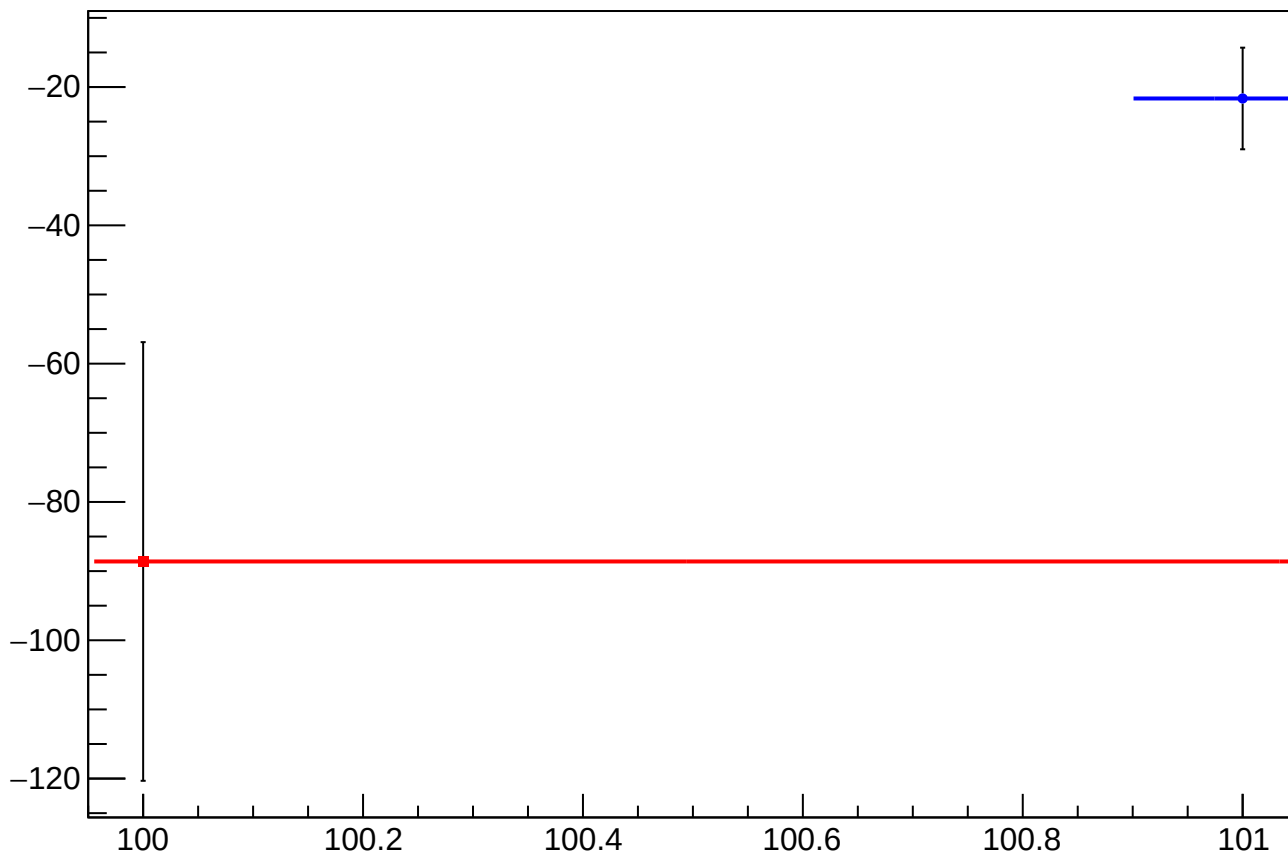
Right: 151.108+/-8.642  $\chi^2/\text{NDF}$ : 21.6/1

In: 162.881+/-9.006  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 151.108+/-8.642  $\chi^2/\text{NDF}$ : 21.6/1

reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -21.654+/-7.348  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -88.605+/-31.717  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

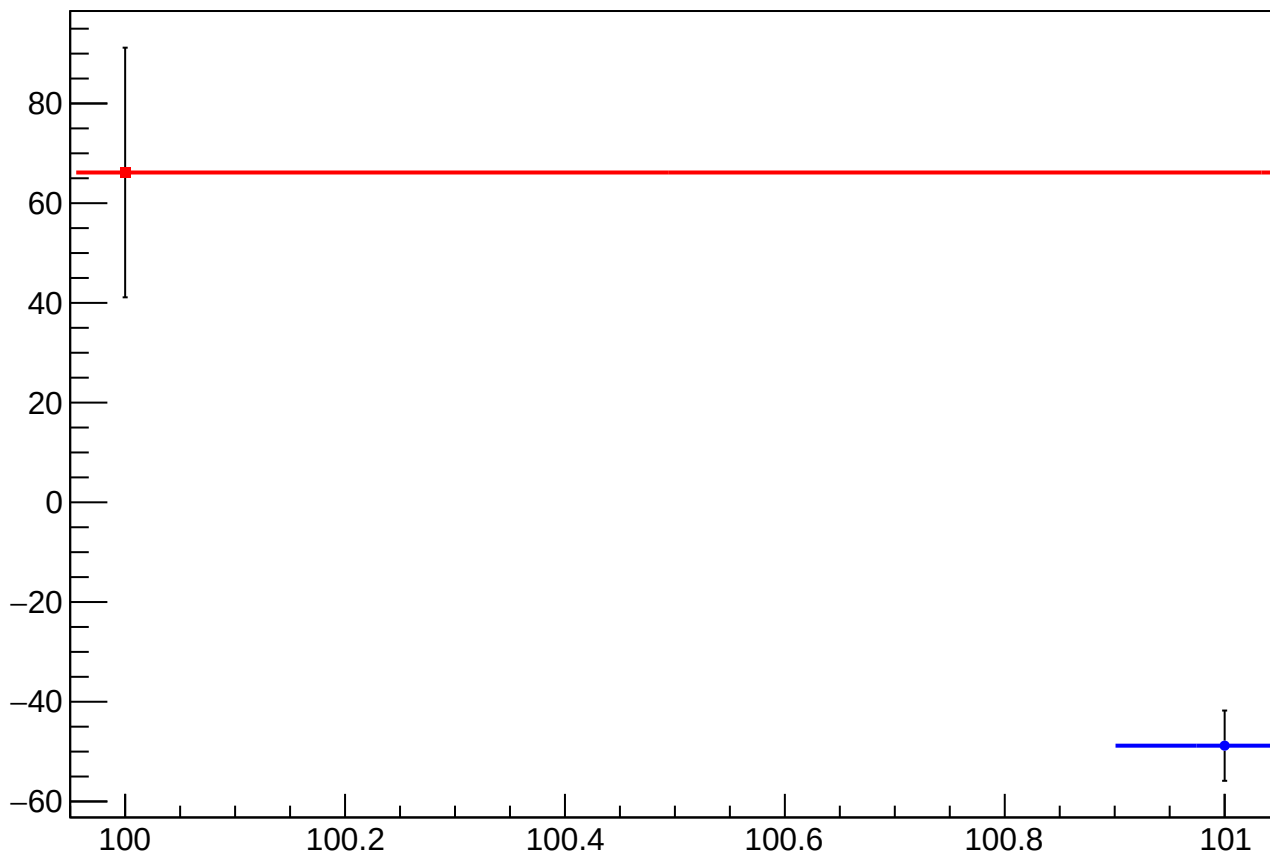
Right: -25.064+/-7.158  $\chi^2/\text{NDF}$ : 4.2/1

In: -21.654+/-7.348  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -25.064+/-7.158  $\chi^2/\text{NDF}$ : 4.2/1

reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -48.811+/-7.045  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 66.155+/-25.037  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -40.375+/-6.782  $\chi^2/\text{NDF}$ : 19.5/1

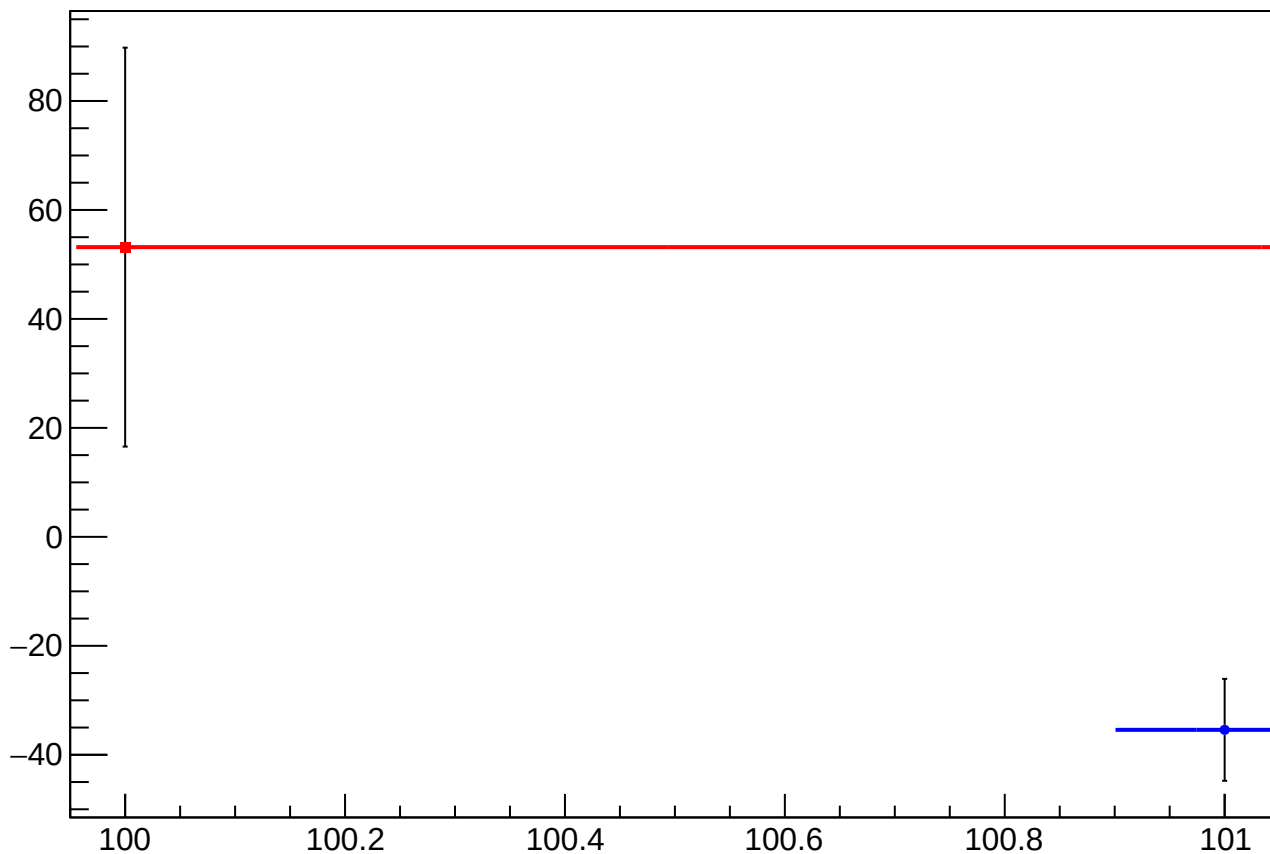
In: -48.811+/-7.045  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.375+/-6.782  $\chi^2/\text{NDF}$ : 19.5/1



reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -35.420 $\pm$ 9.353  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.175 $\pm$ 36.609  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

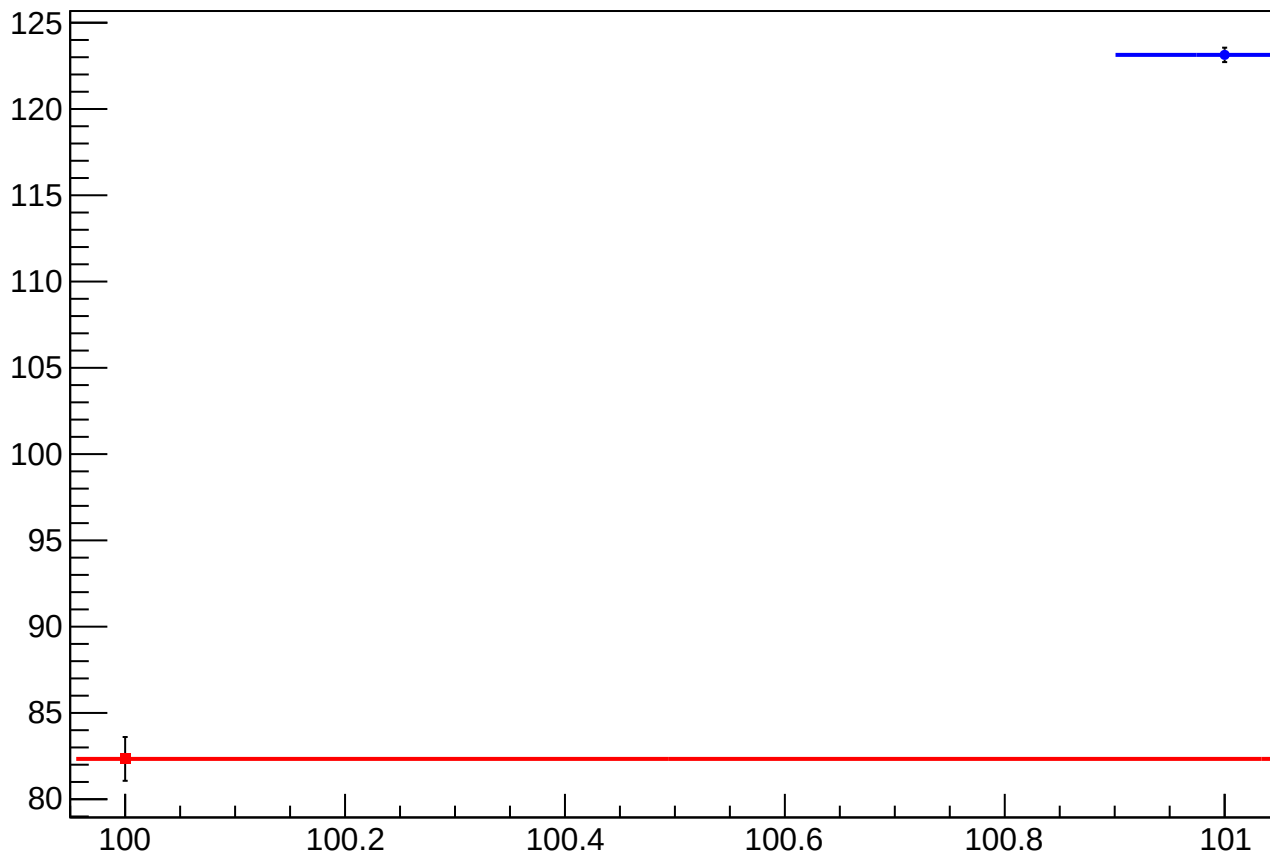
Right: -29.991 $\pm$ 9.062  $\chi^2$ /NDF: 5.5/1

In: -35.420 $\pm$ 9.353  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -29.991 $\pm$ 9.062  $\chi^2$ /NDF: 5.5/1

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 123.136 $\pm$ 0.418  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 82.336 $\pm$ 1.269  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

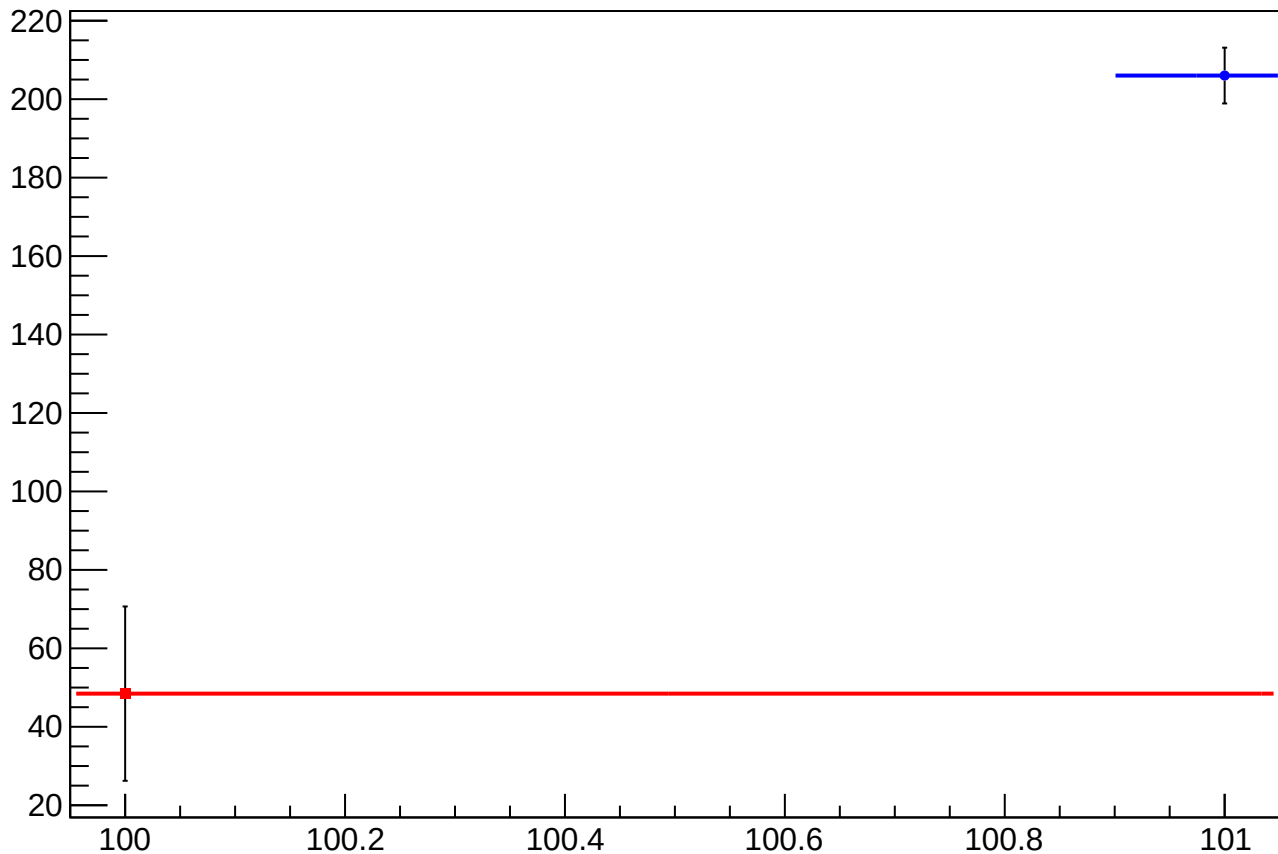
Right: 119.145 $\pm$ 0.397  $\chi^2$ /NDF: 932.6/1

In: 123.136 $\pm$ 0.418  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 119.145 $\pm$ 0.397  $\chi^2$ /NDF: 932.6/1

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 206.021 $\pm$ 7.109  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 48.454 $\pm$ 22.221  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

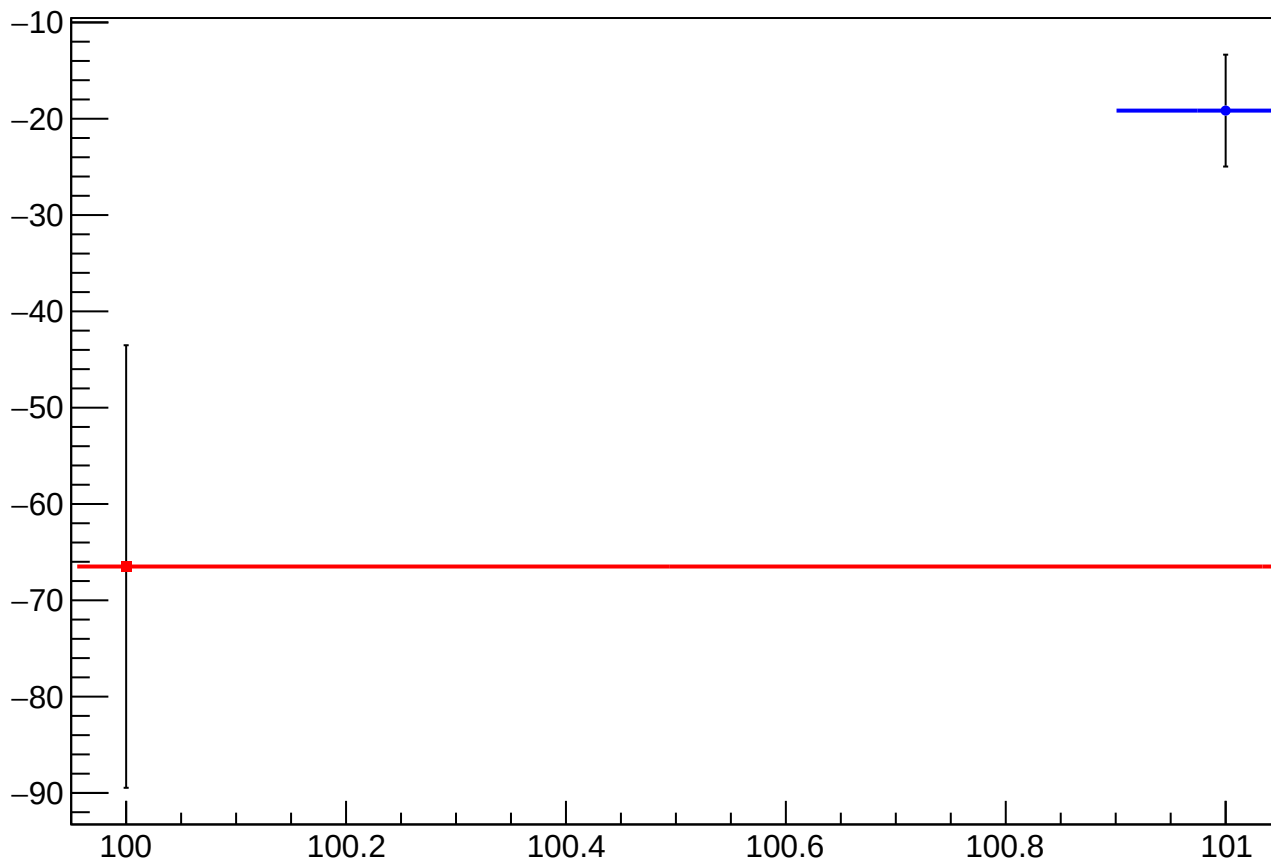
Right: 191.390 $\pm$ 6.771  $\chi^2$ /NDF: 45.6/1

In: 206.021 $\pm$ 7.109  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 191.390 $\pm$ 6.771  $\chi^2$ /NDF: 45.6/1

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -19.156 $\pm$ 5.808  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -66.491 $\pm$ 22.975  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

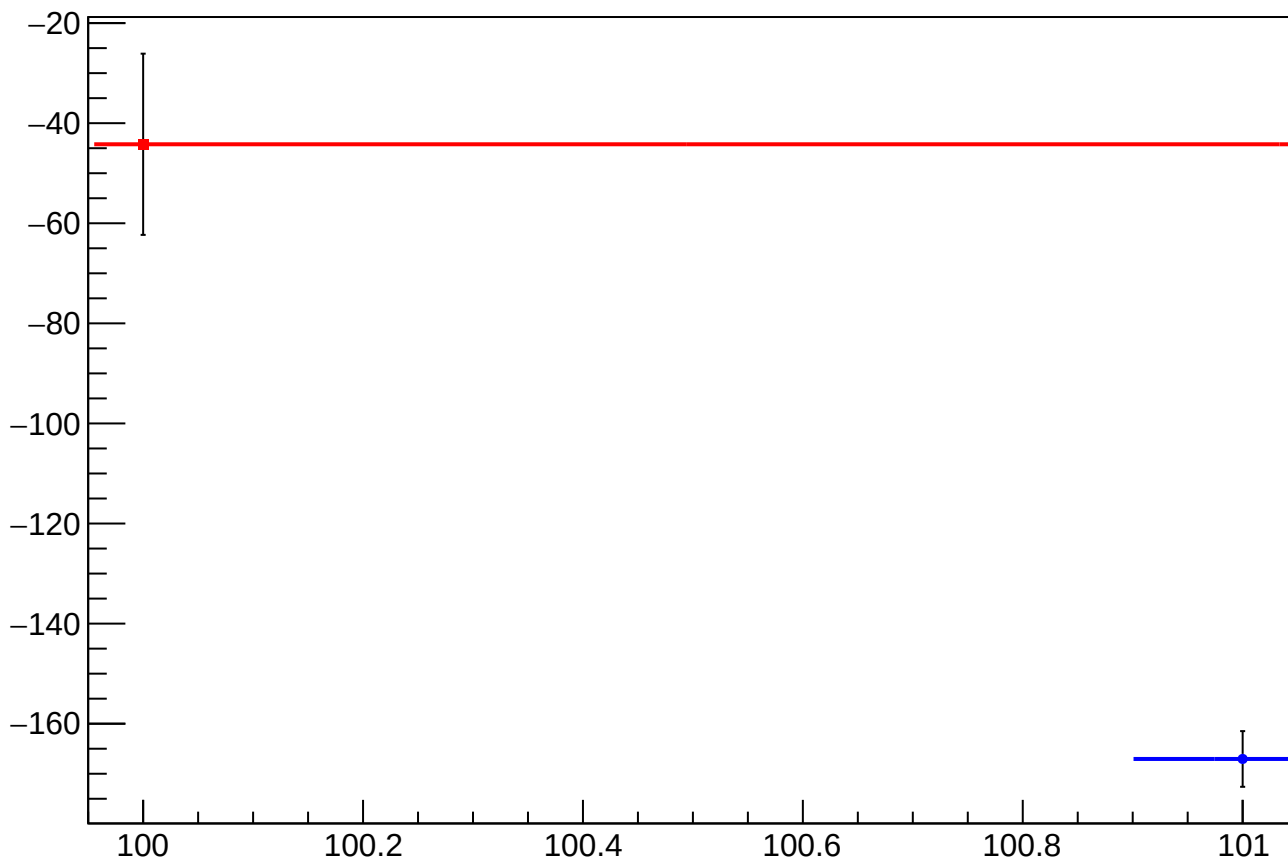
Right: -21.999 $\pm$ 5.631  $\chi^2$ /NDF: 4.0/1

In: -19.156 $\pm$ 5.808  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -21.999 $\pm$ 5.631  $\chi^2$ /NDF: 4.0/1

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -167.046 $\pm$ 5.563  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -44.215 $\pm$ 18.106  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

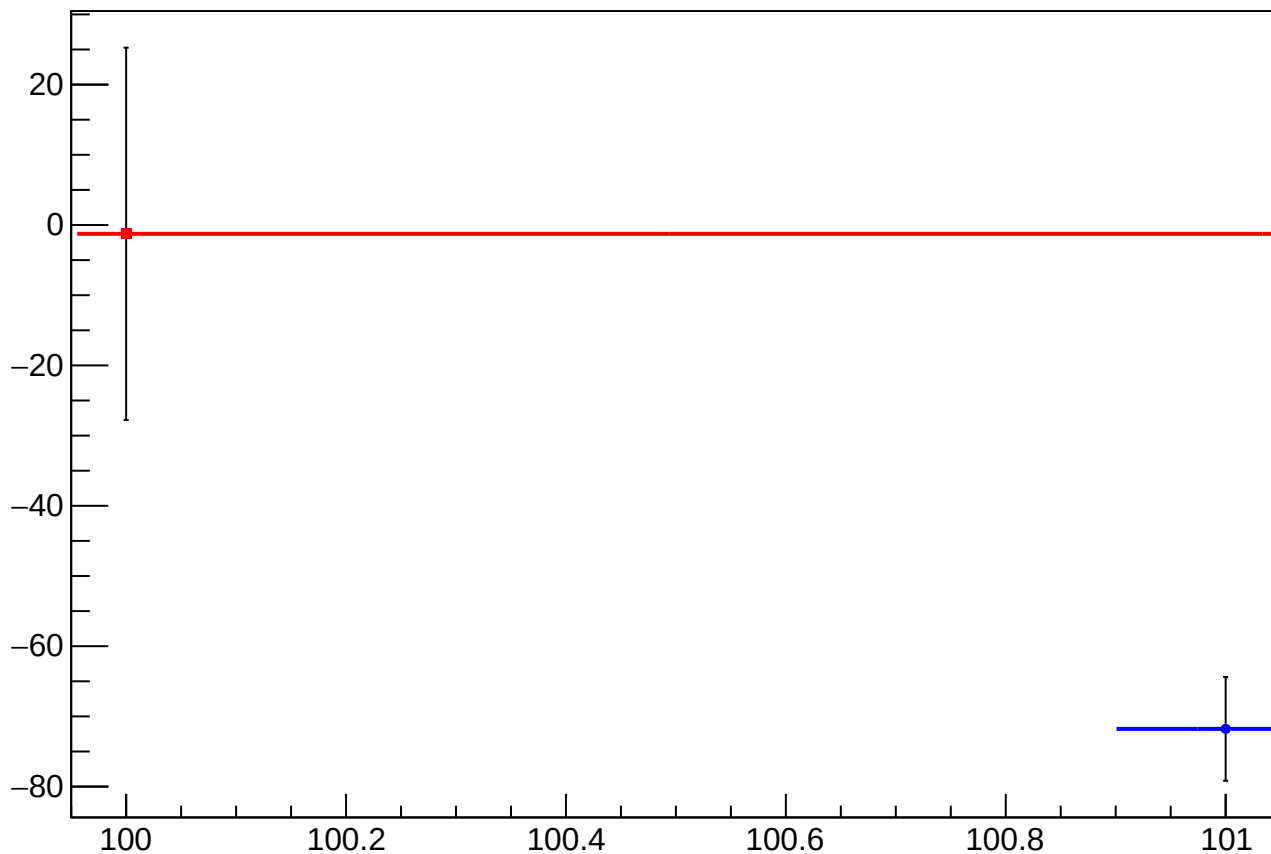
Right: -156.450 $\pm$ 5.318  $\chi^2$ /NDF: 42.1/1

In: -167.046 $\pm$ 5.563  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -156.450 $\pm$ 5.318  $\chi^2$ /NDF: 42.1/1

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -71.777 $\pm$ 7.397  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.258 $\pm$ 26.519  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

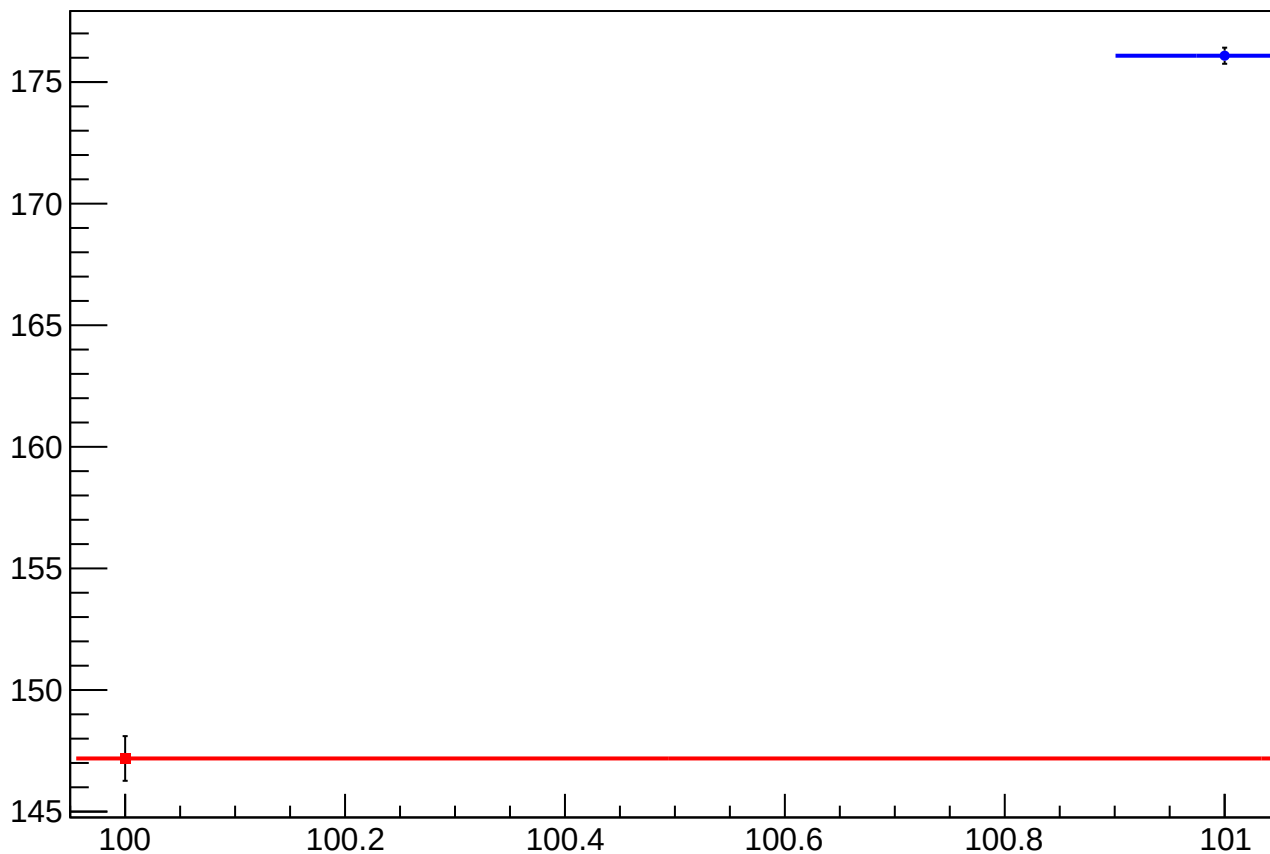
Right: -66.687 $\pm$ 7.125  $\chi^2$ /NDF: 6.6/1

In: -71.777 $\pm$ 7.397  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -66.687 $\pm$ 7.125  $\chi^2$ /NDF: 6.6/1

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 176.083 $\pm$ 0.331  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.185 $\pm$ 0.919  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

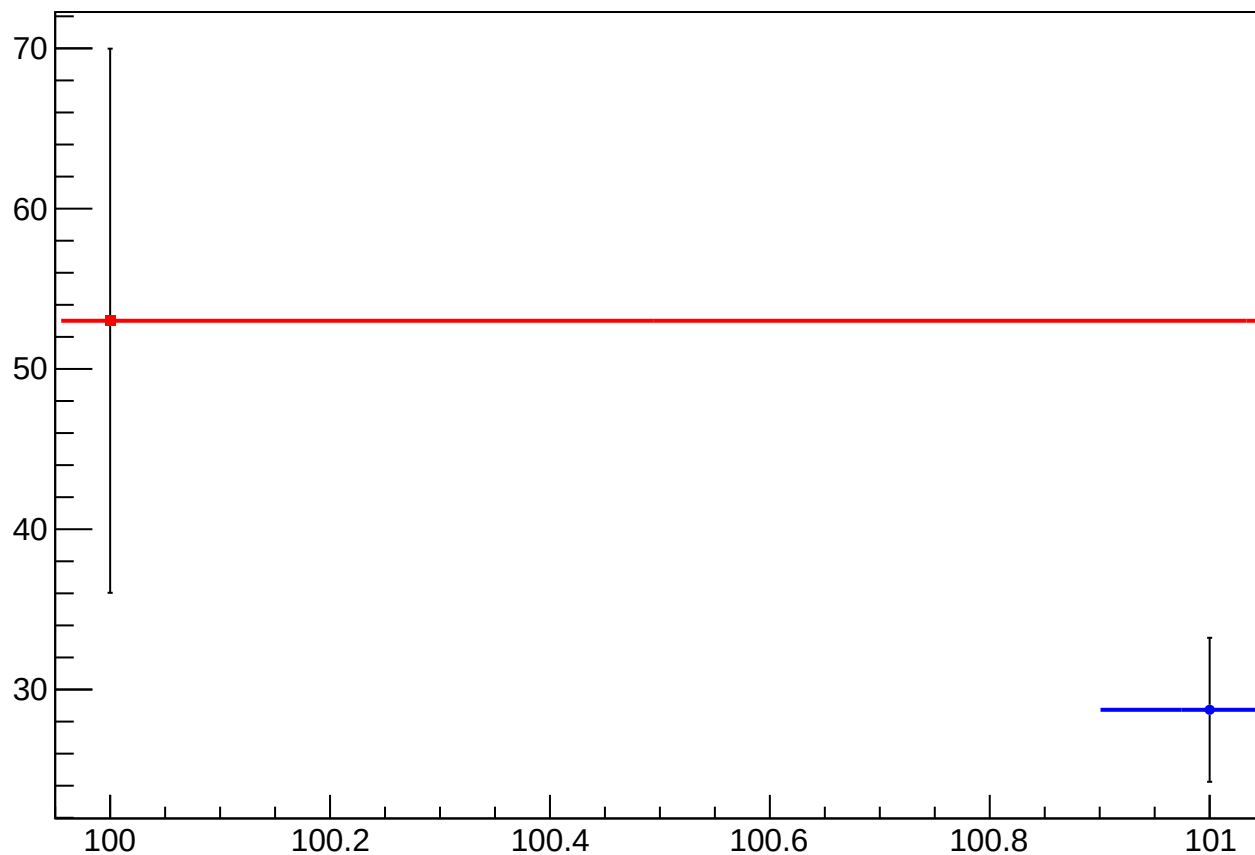
Right: 172.761 $\pm$ 0.311  $\chi^2$ /NDF: 876.0/1

In: 176.083 $\pm$ 0.331  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 172.761 $\pm$ 0.311  $\chi^2$ /NDF: 876.0/1

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 28.736+/-4.492  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.007+/-16.973  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 30.324+/-4.342  $\chi^2/\text{NDF}$ : 1.9/1

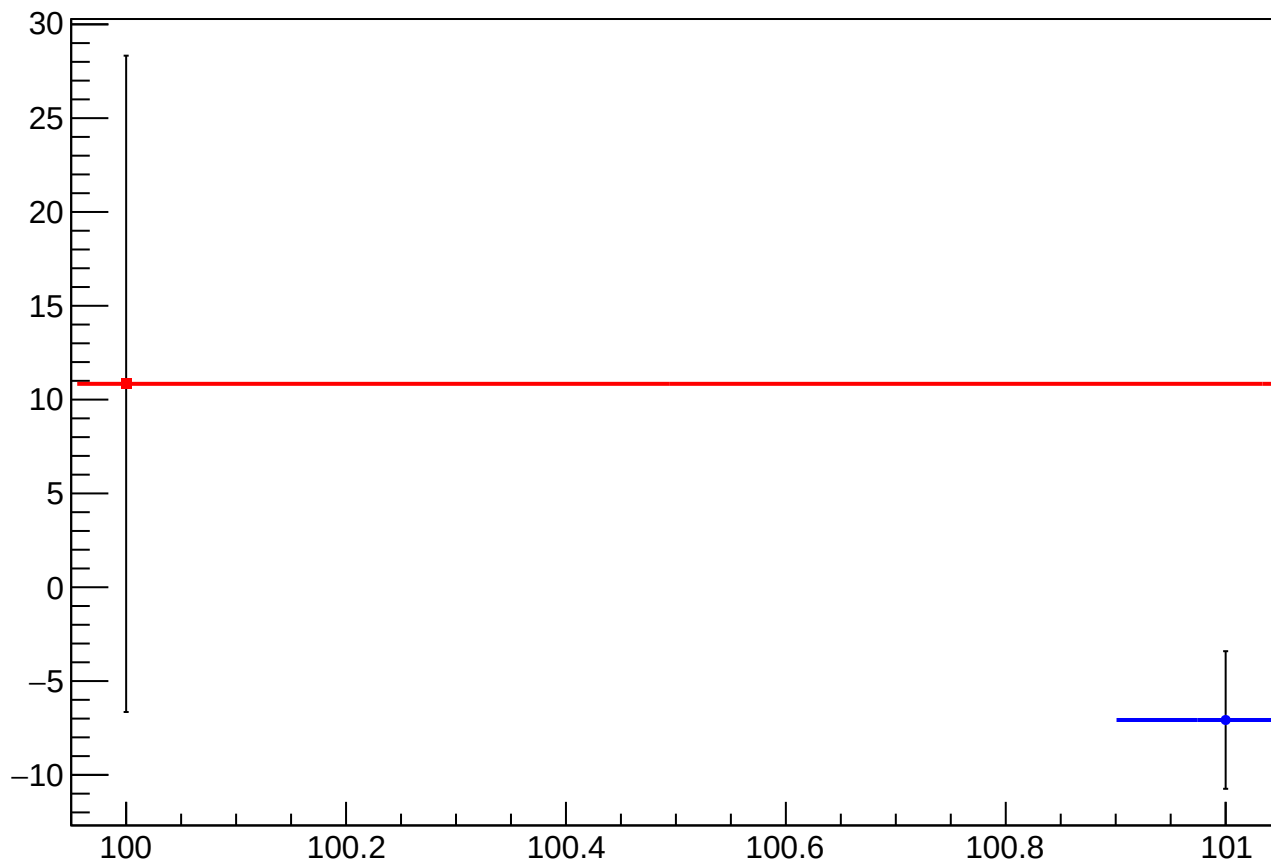
In: 28.736+/-4.492  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.324+/-4.342  $\chi^2/\text{NDF}$ : 1.9/1



reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -7.075+/-3.667  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.841+/-17.489  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

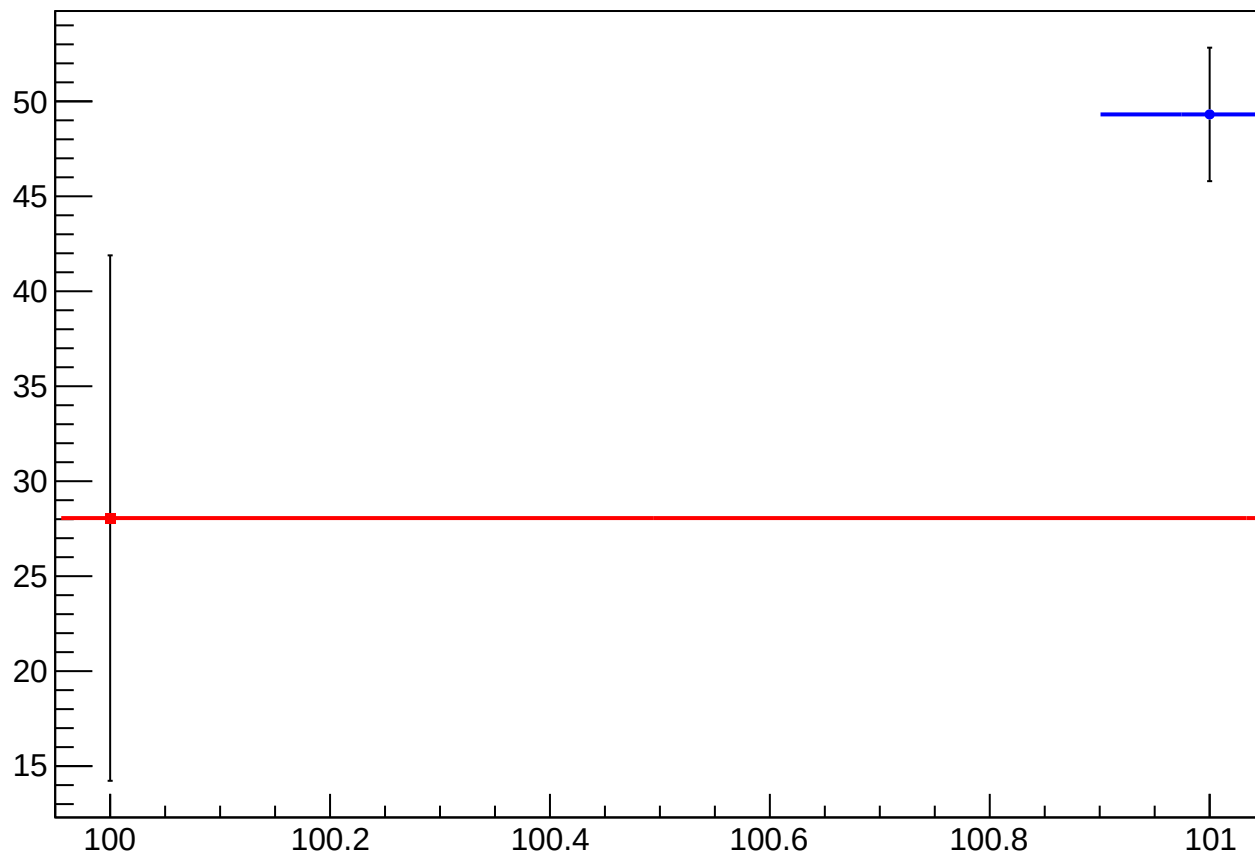
Right: -6.321+/-3.589  $\chi^2/\text{NDF}$ : 1.0/1

In: -7.075+/-3.667  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.321+/-3.589  $\chi^2/\text{NDF}$ : 1.0/1

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 49.311 $\pm$ 3.514  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 28.059 $\pm$ 13.832  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

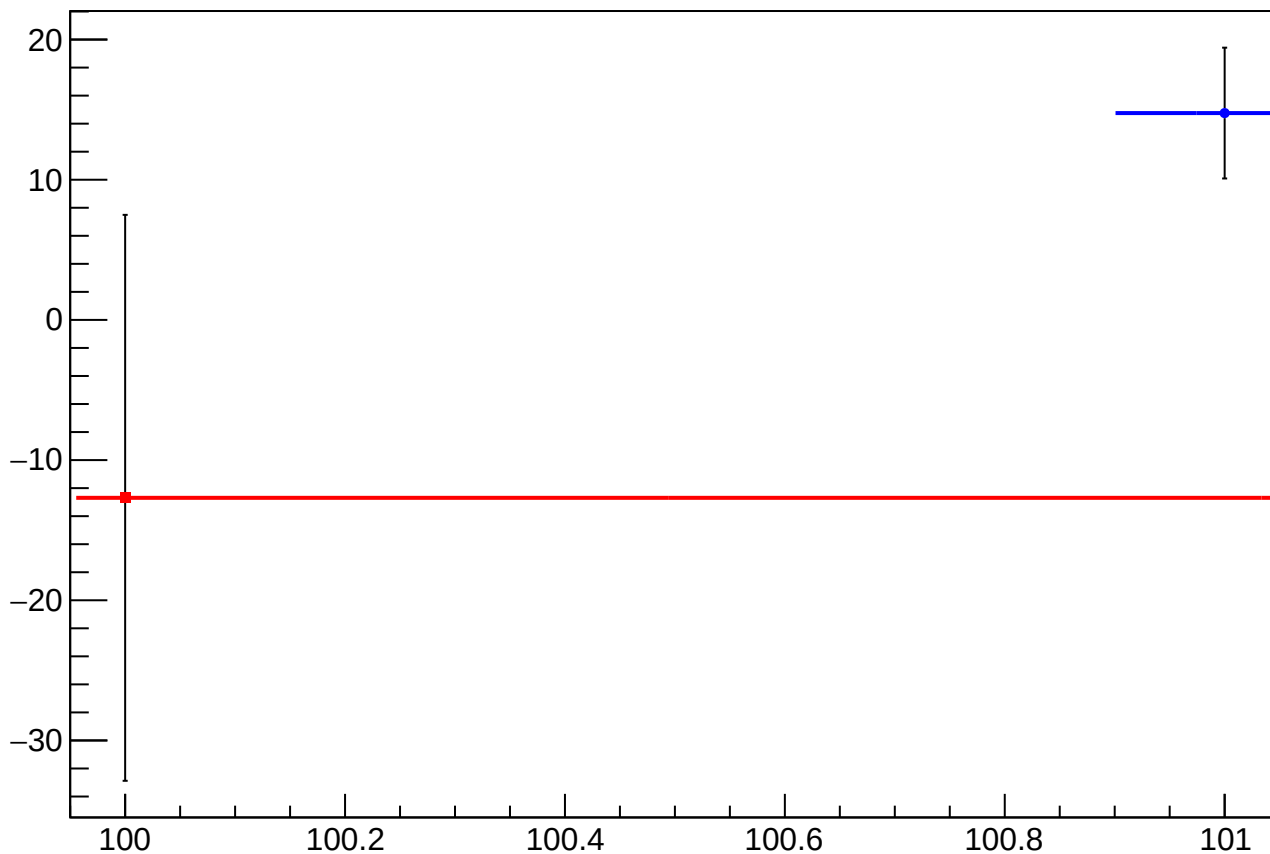
Right: 48.023 $\pm$ 3.406  $\chi^2$ /NDF: 2.2/1

In: 49.311 $\pm$ 3.514  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 48.023 $\pm$ 3.406  $\chi^2$ /NDF: 2.2/1

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 14.755+/-4.666  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.692+/-20.186  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

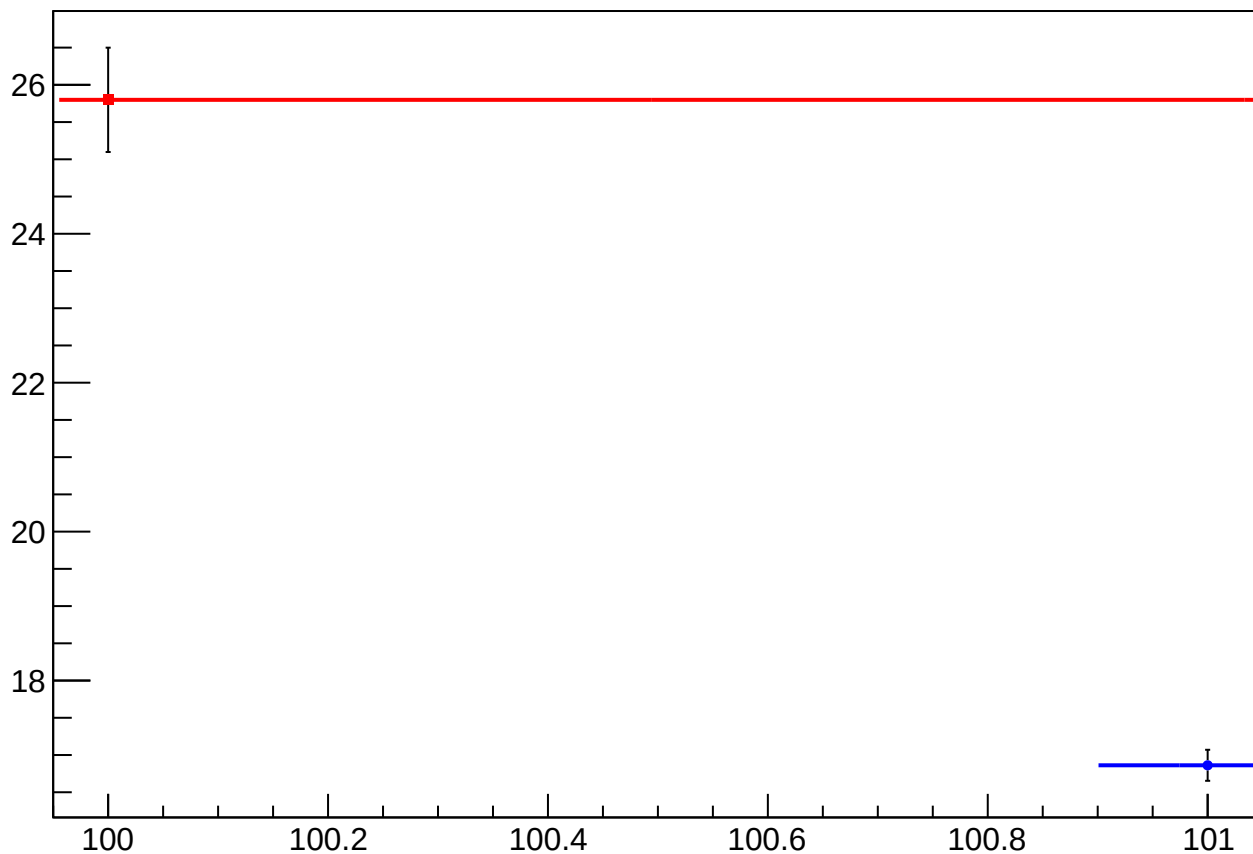
Right: 13.363+/-4.546  $\chi^2/\text{NDF}$ : 1.8/1

In: 14.755+/-4.666  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.363+/-4.546  $\chi^2/\text{NDF}$ : 1.8/1

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 16.862 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.799 $\pm$ 0.701  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

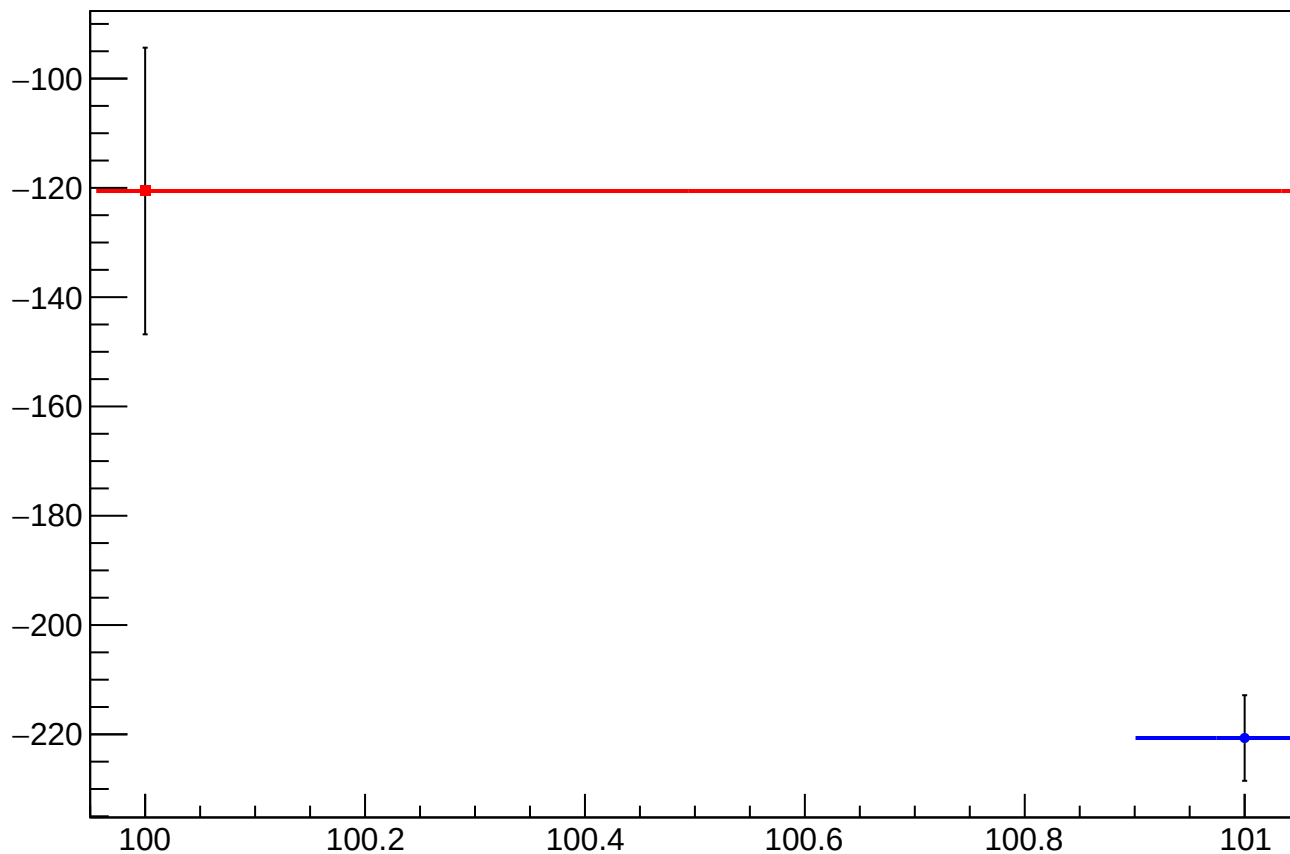
Right: 17.587 $\pm$ 0.200  $\chi^2$ /NDF: 149.5/1

In: 16.862 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.587 $\pm$ 0.200  $\chi^2$ /NDF: 149.5/1

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -220.672+/-7.831  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -120.572+/-26.228  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

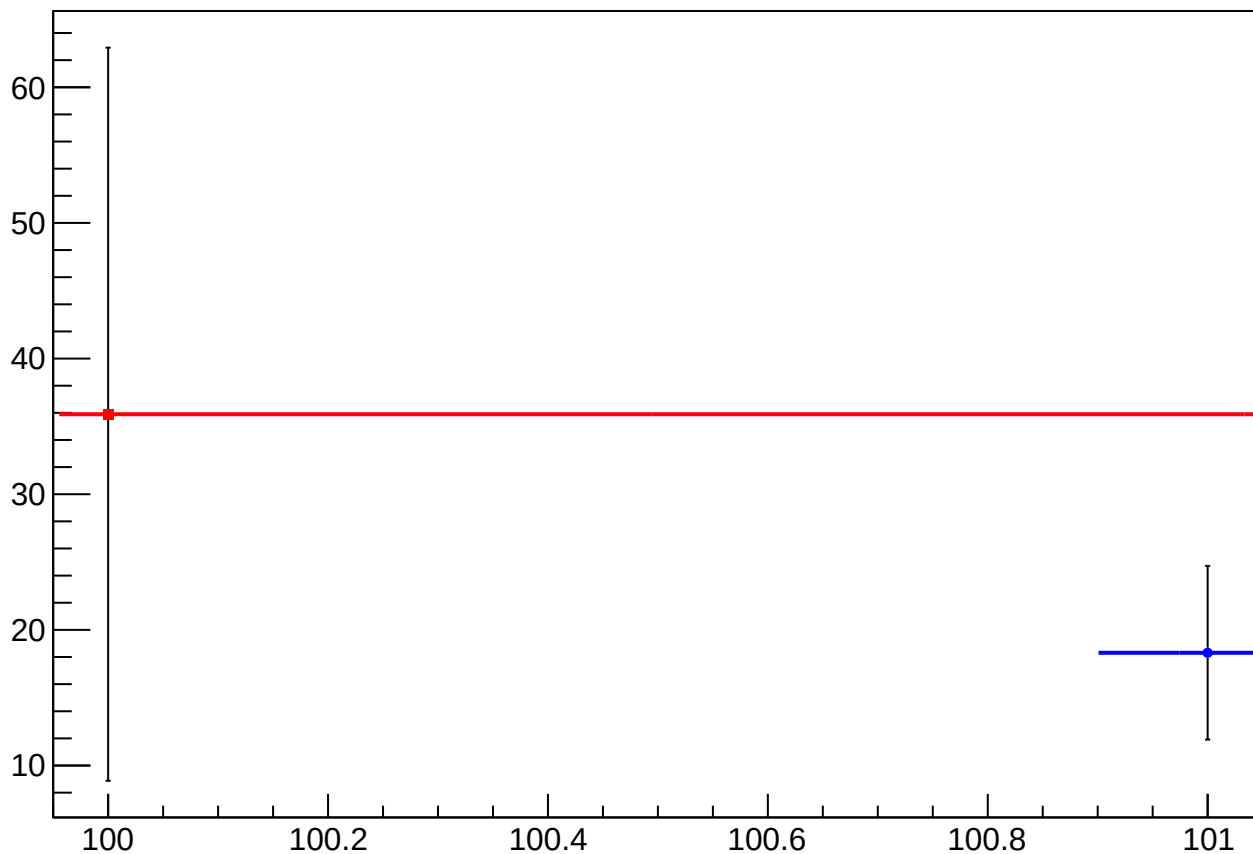
Right: -212.479+/-7.504  $\chi^2$ /NDF: 13.4/1

In: -220.672+/-7.831  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -212.479+/-7.504  $\chi^2$ /NDF: 13.4/1

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.312 $\pm$ 6.400  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 35.897 $\pm$ 27.023  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

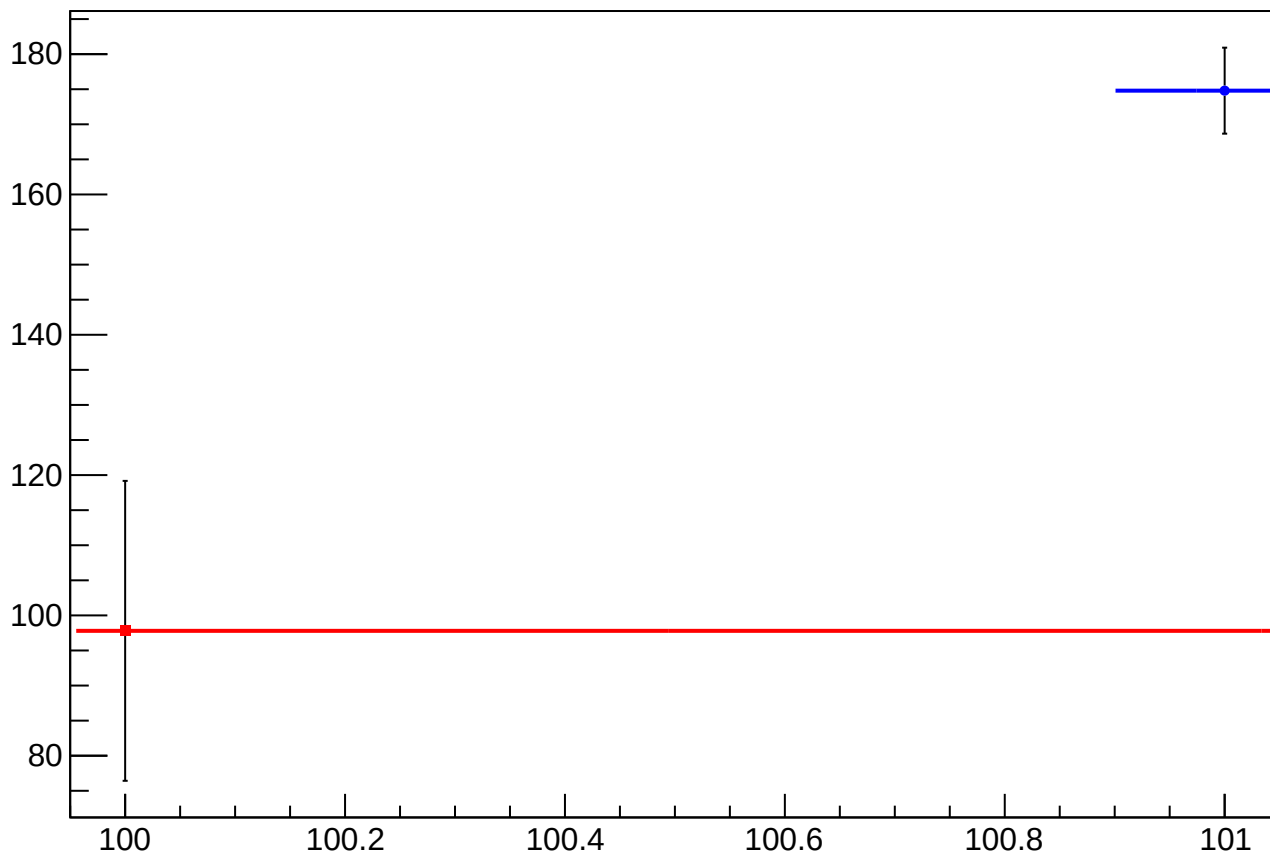
Right: 19.246 $\pm$ 6.228  $\chi^2$ /NDF: 0.4/1

In: 18.312 $\pm$ 6.400  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 19.246 $\pm$ 6.228  $\chi^2$ /NDF: 0.4/1

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 174.796 $\pm$ 6.128  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 97.799 $\pm$ 21.374  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

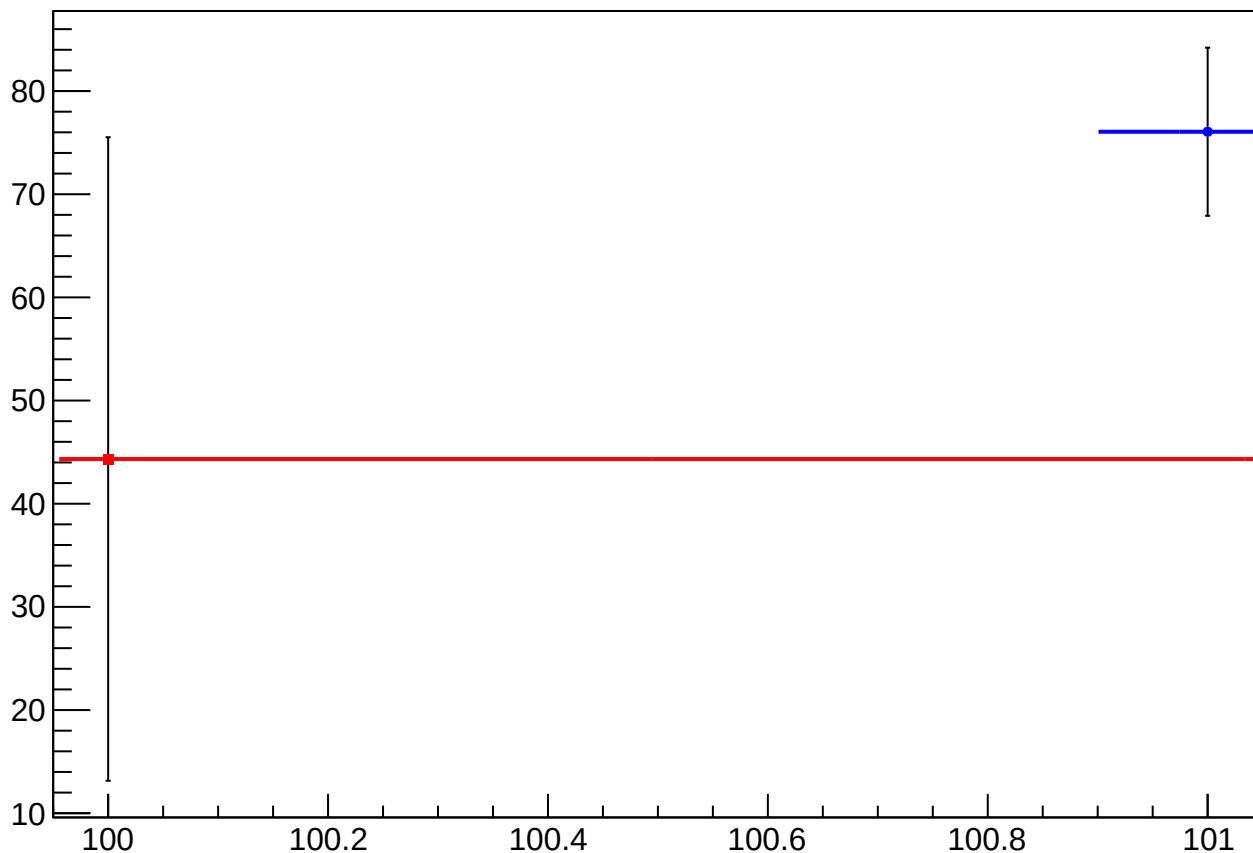
Right: 168.948 $\pm$ 5.891  $\chi^2/\text{NDF}$ : 12.0/1

In: 174.796 $\pm$ 6.128  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.948 $\pm$ 5.891  $\chi^2/\text{NDF}$ : 12.0/1

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 76.056+/-8.150  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 44.333+/-31.190  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 74.028+/-7.885  $\chi^2/\text{NDF}$ : 1.0/1

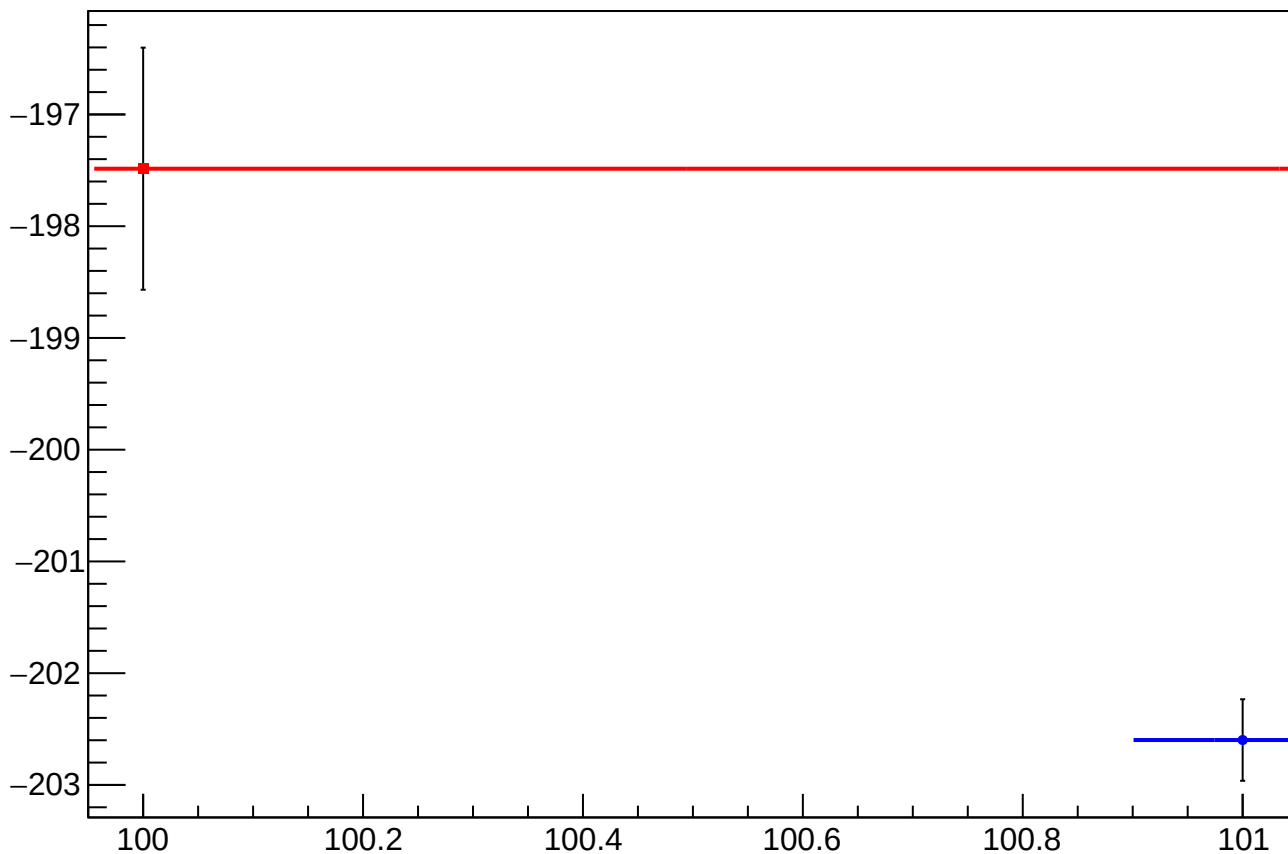
In: 76.056+/-8.150  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 74.028+/-7.885  $\chi^2/\text{NDF}$ : 1.0/1



reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -202.598+/-0.365  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -197.486+/-1.083  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

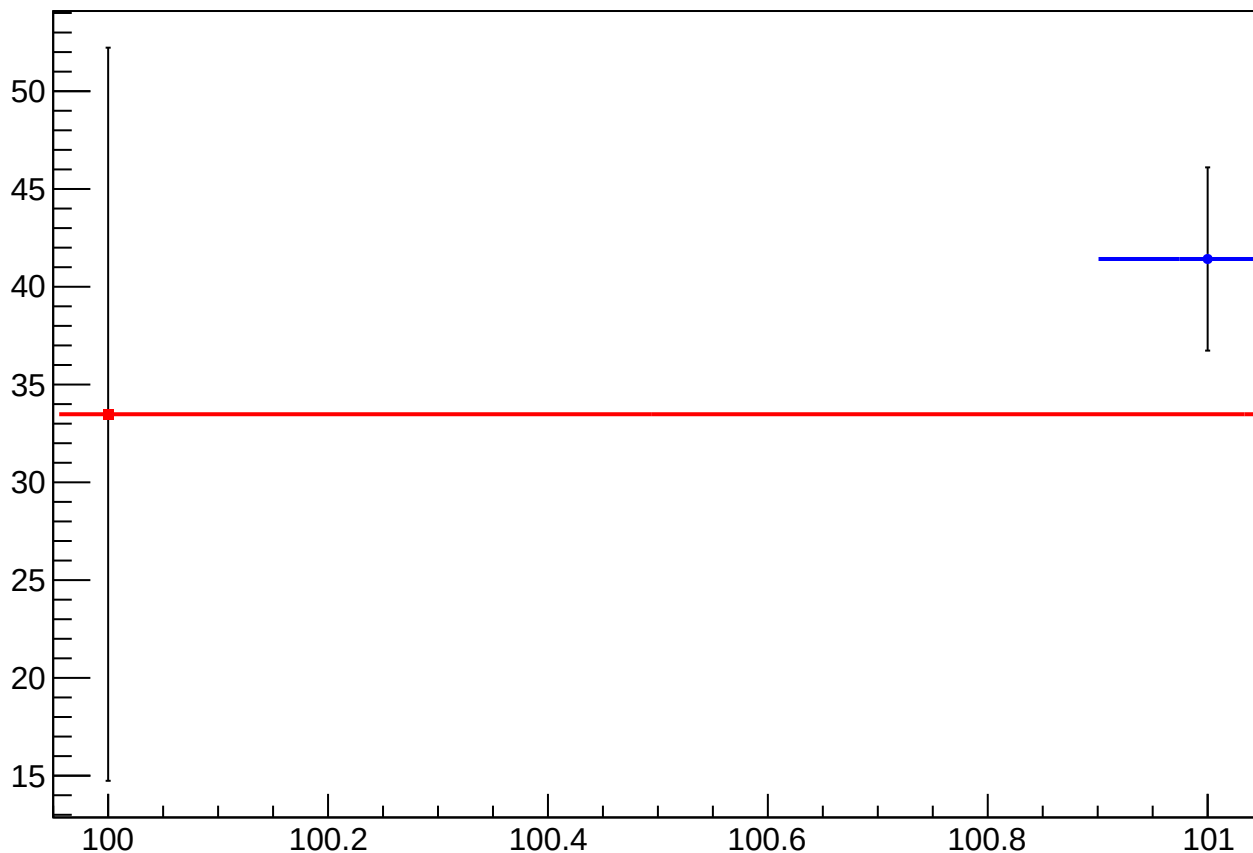
Right: -202.077+/-0.346  $\chi^2$ /NDF: 20.0/1

In: -202.598+/-0.365  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -202.077+/-0.346  $\chi^2$ /NDF: 20.0/1

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 41.420 $\pm$ 4.685  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 33.482 $\pm$ 18.744  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

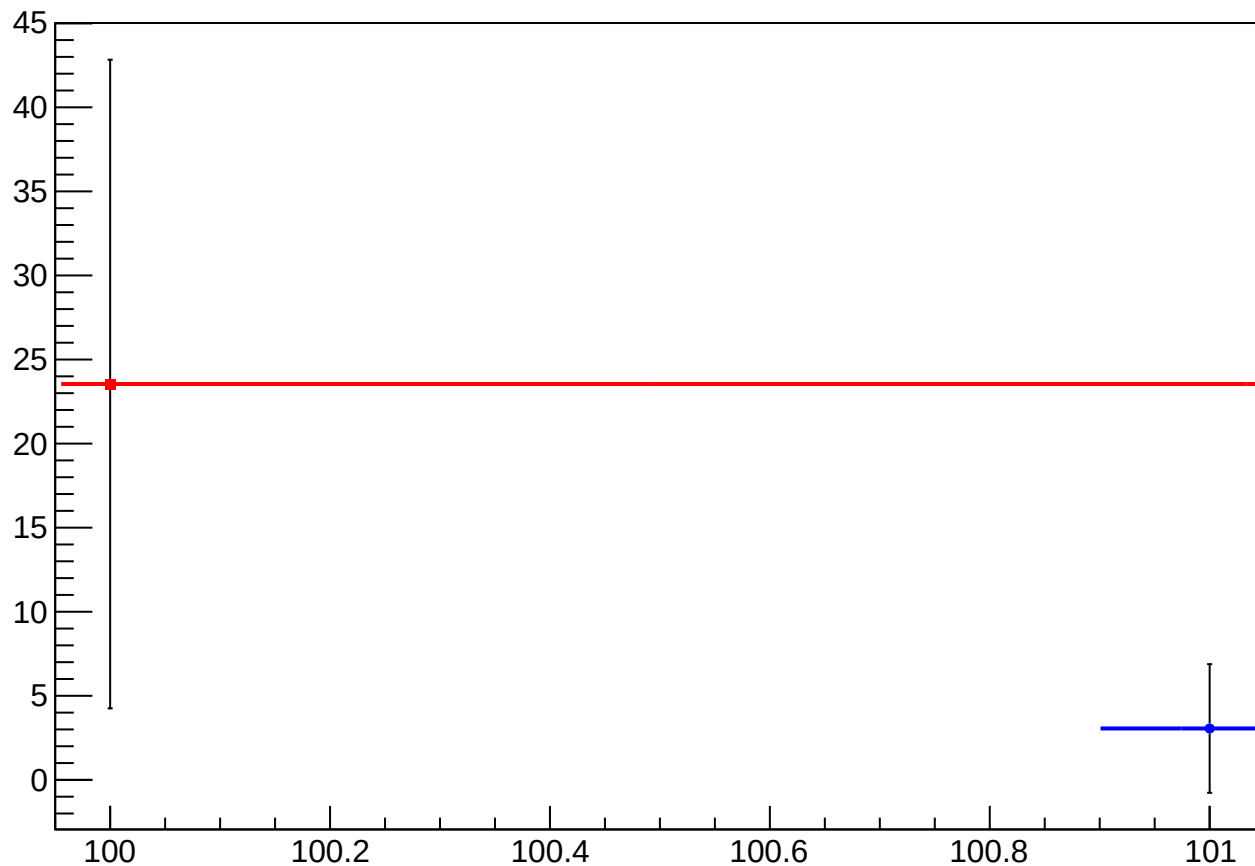
Right: 40.953 $\pm$ 4.545  $\chi^2$ /NDF: 0.2/1

In: 41.420 $\pm$ 4.685  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 40.953 $\pm$ 4.545  $\chi^2$ /NDF: 0.2/1

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.057+/-3.826  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.543+/-19.292  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

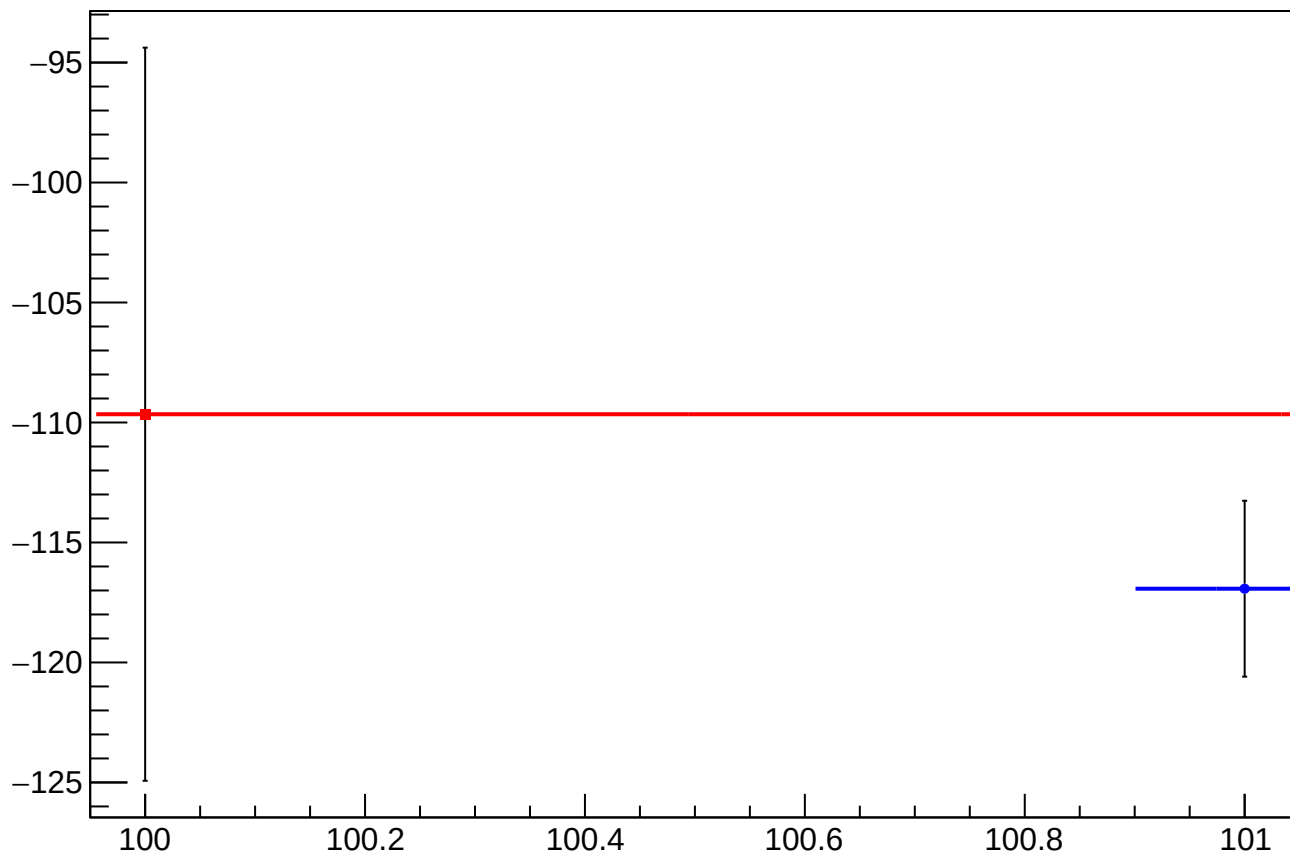
Right: 3.832+/-3.753  $\chi^2/\text{NDF}$ : 1.1/1

In: 3.057+/-3.826  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.832+/-3.753  $\chi^2/\text{NDF}$ : 1.1/1

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -116.926+/-3.665  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -109.656+/-15.276  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

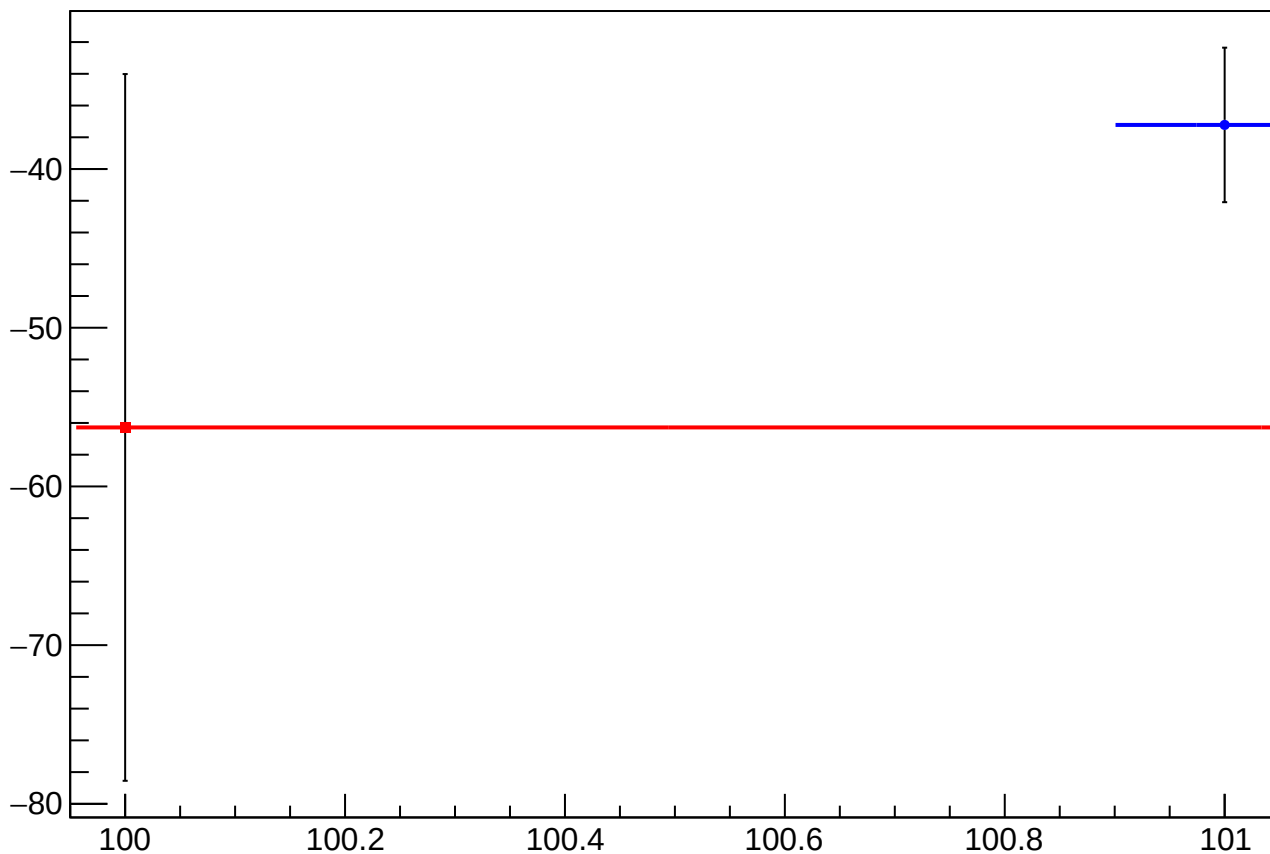
Right: -116.531+/-3.564  $\chi^2/\text{NDF}$ : 0.2/1

In: -116.926+/-3.665  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -116.531+/-3.564  $\chi^2/\text{NDF}$ : 0.2/1

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -37.221 $\pm$ 4.868  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -56.282 $\pm$ 22.266  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

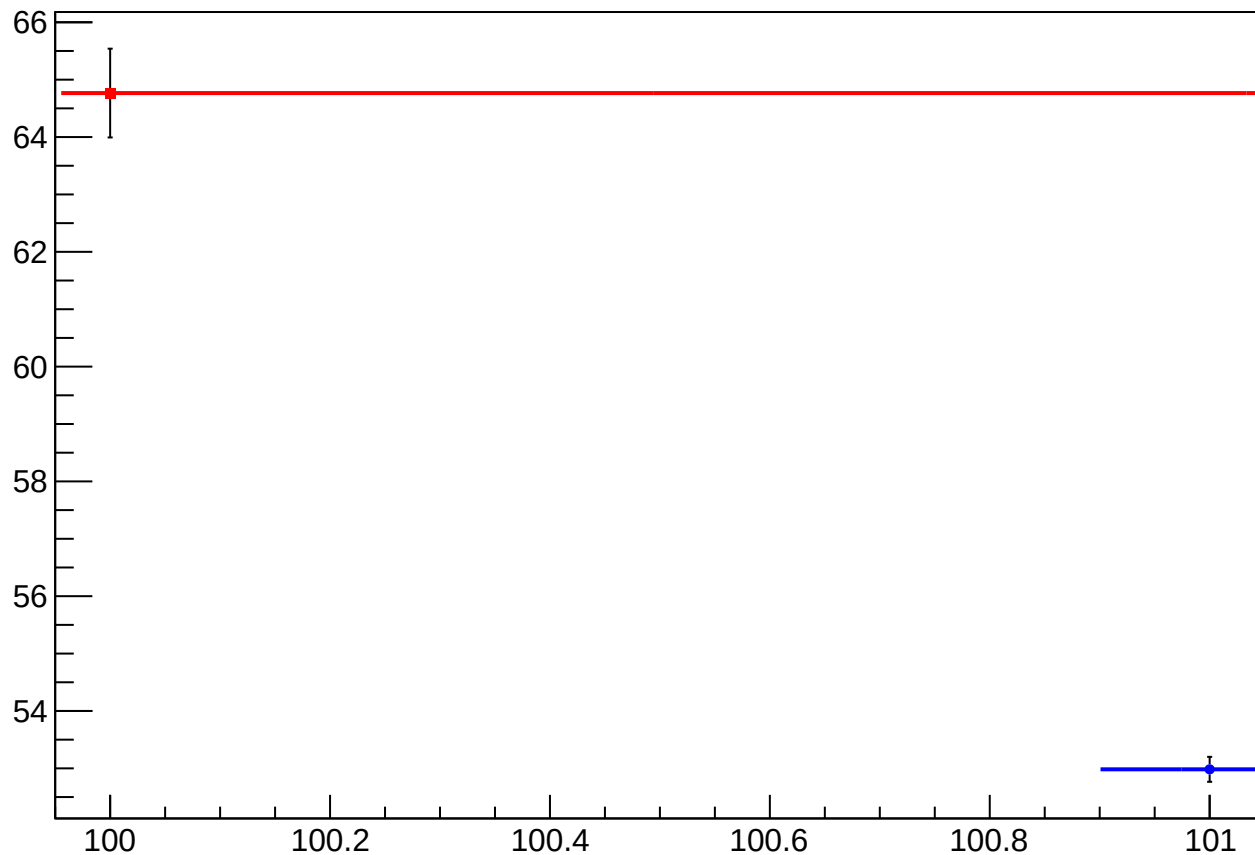
Right: -38.091 $\pm$ 4.756  $\chi^2$ /NDF: 0.7/1

In: -37.221 $\pm$ 4.868  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -38.091 $\pm$ 4.756  $\chi^2$ /NDF: 0.7/1

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 52.983 $\pm$ 0.217  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 64.767 $\pm$ 0.773  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

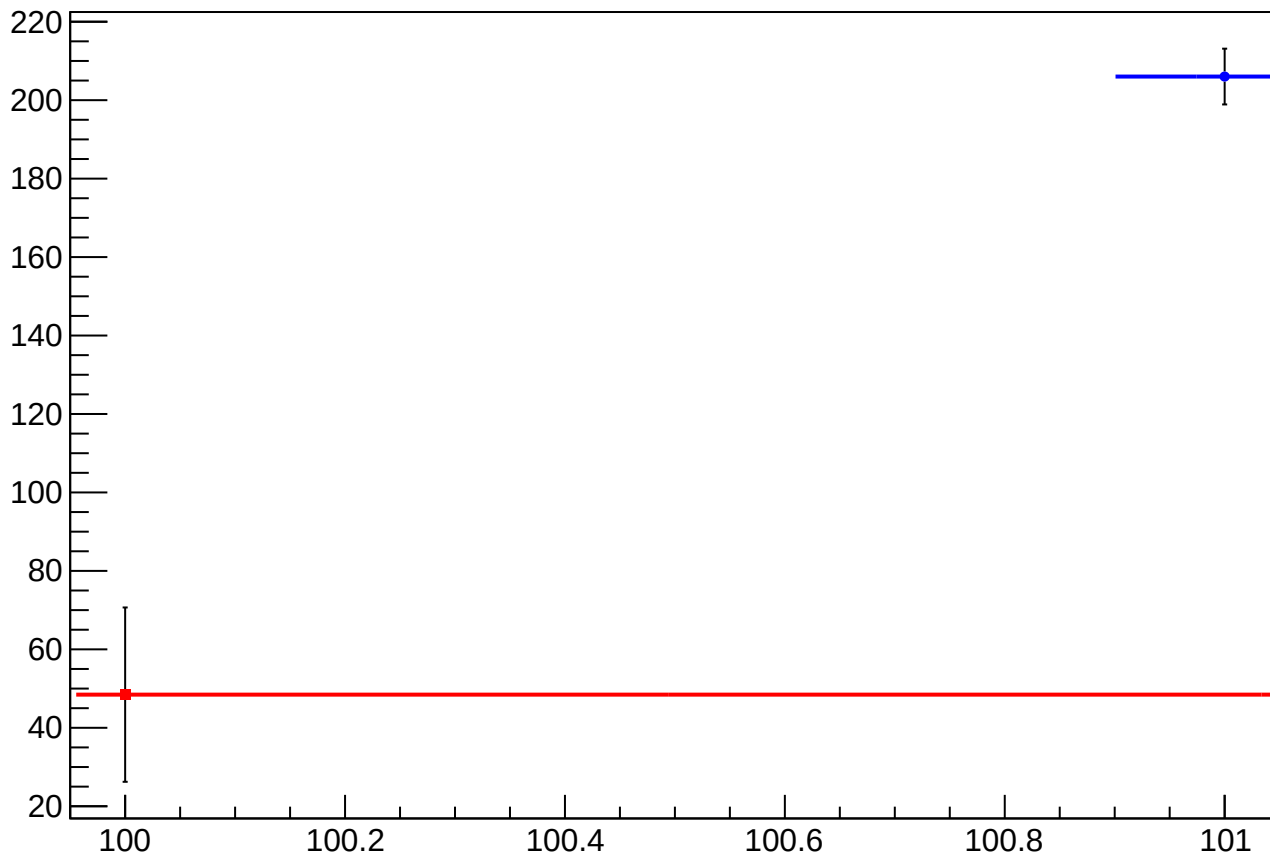
Right: 53.846 $\pm$ 0.209  $\chi^2$ /NDF: 215.1/1

In: 52.983 $\pm$ 0.217  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 53.846 $\pm$ 0.209  $\chi^2$ /NDF: 215.1/1

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 206.021 $\pm$ 7.109  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 48.454 $\pm$ 22.221  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

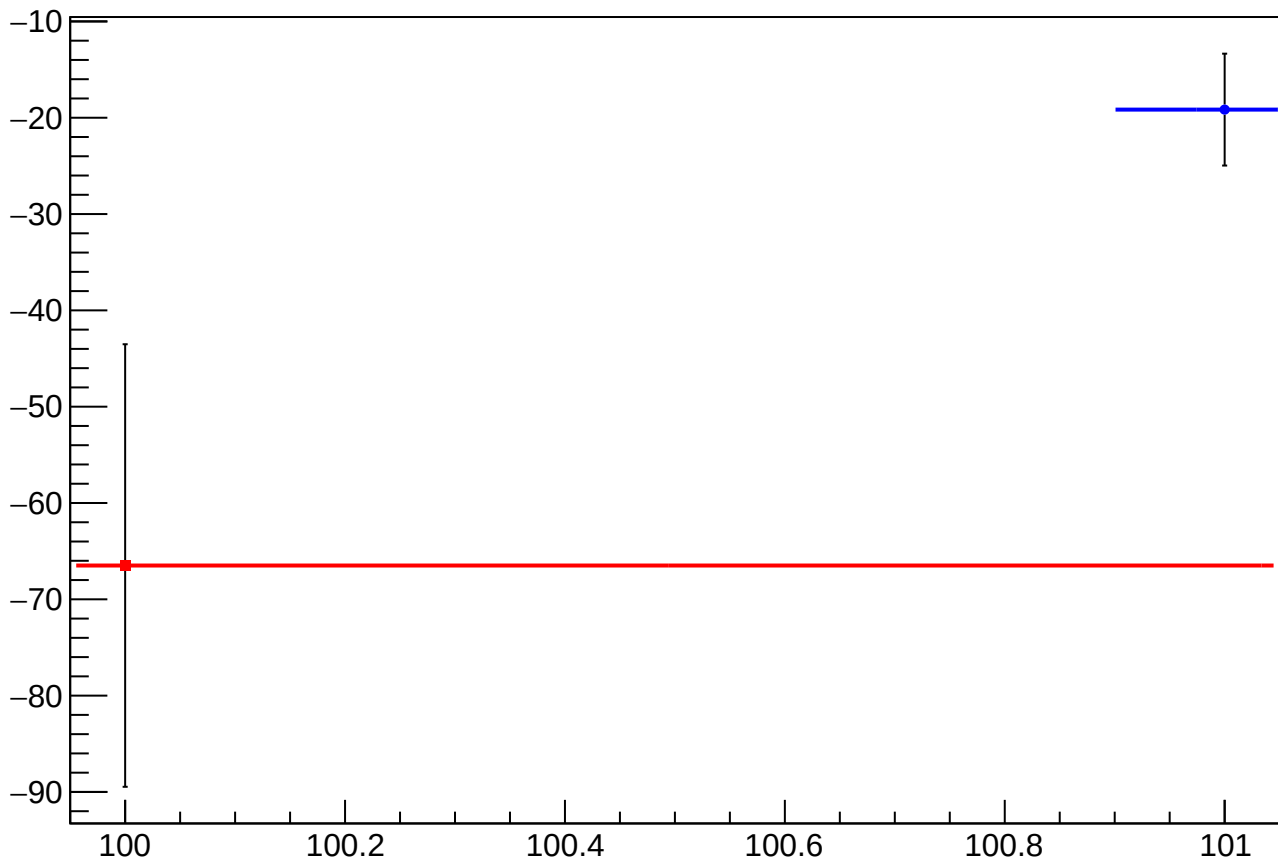
Right: 191.390 $\pm$ 6.771  $\chi^2$ /NDF: 45.6/1

In: 206.021 $\pm$ 7.109  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 191.390 $\pm$ 6.771  $\chi^2$ /NDF: 45.6/1

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -19.156+/-5.808  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -66.491+/-22.975  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -21.999+/-5.631  $\chi^2/\text{NDF}$ : 4.0/1

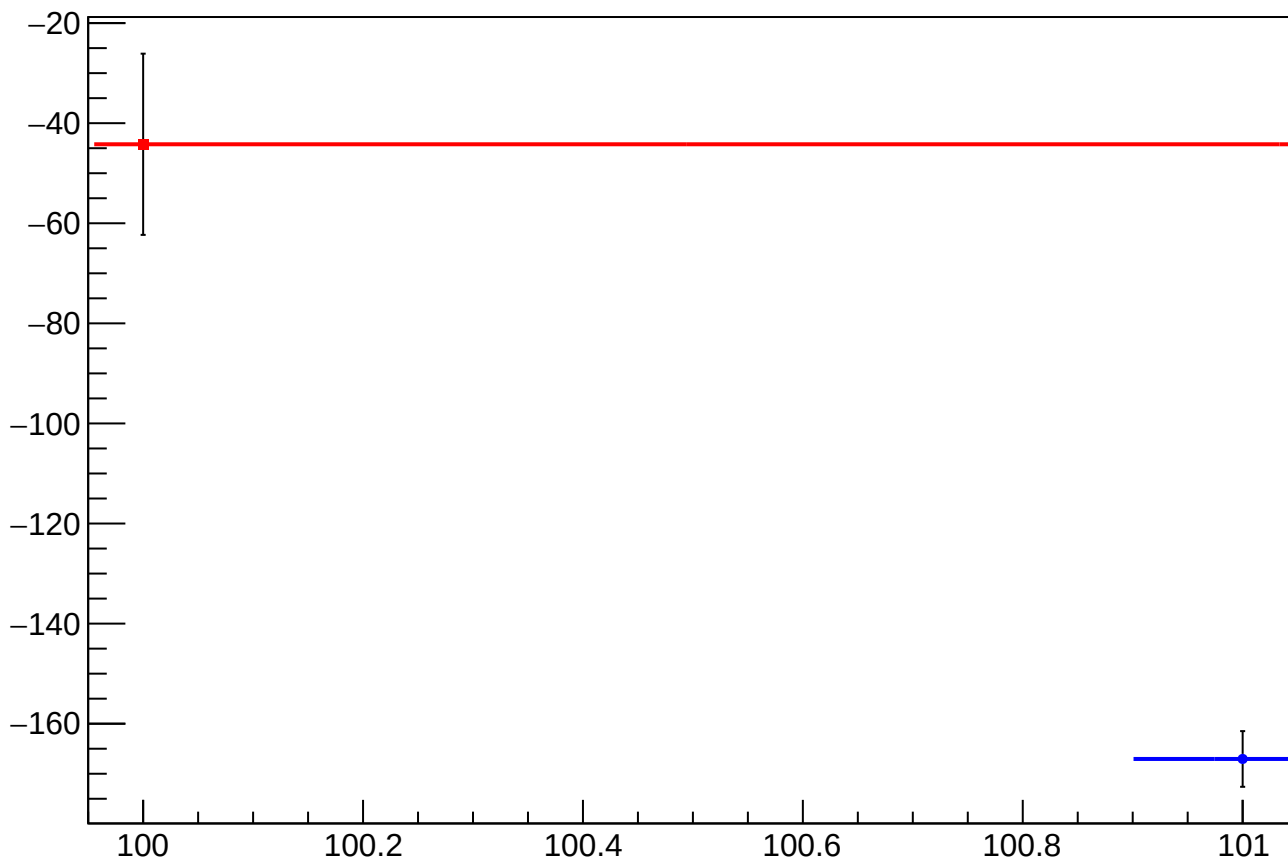
In: -19.156+/-5.808  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.999+/-5.631  $\chi^2/\text{NDF}$ : 4.0/1



reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -167.046+/-5.563  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -44.215+/-18.106  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

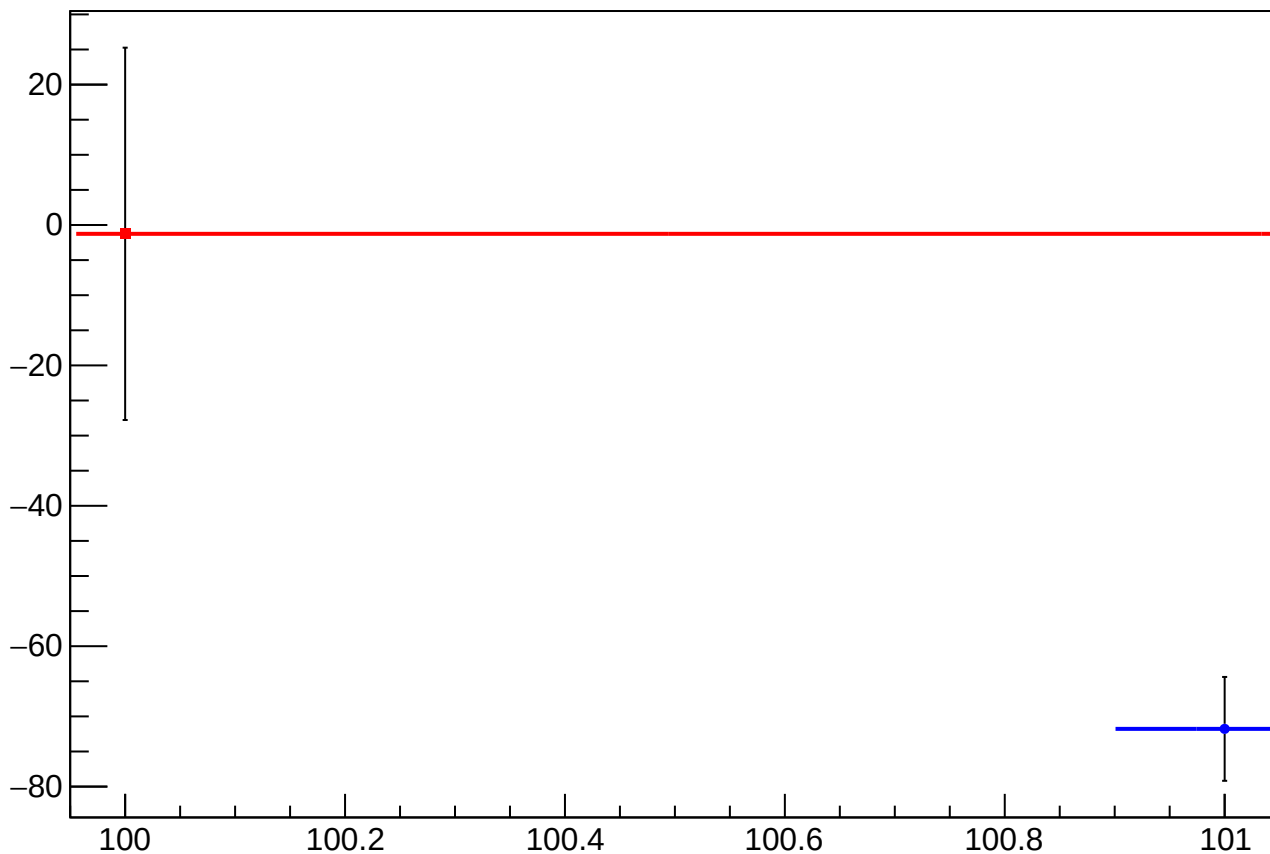
Right: -156.450+/-5.318  $\chi^2/\text{NDF}$ : 42.1/1

In: -167.046+/-5.563  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -156.450+/-5.318  $\chi^2/\text{NDF}$ : 42.1/1

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -71.777 $\pm$ 7.397  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.258 $\pm$ 26.519  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

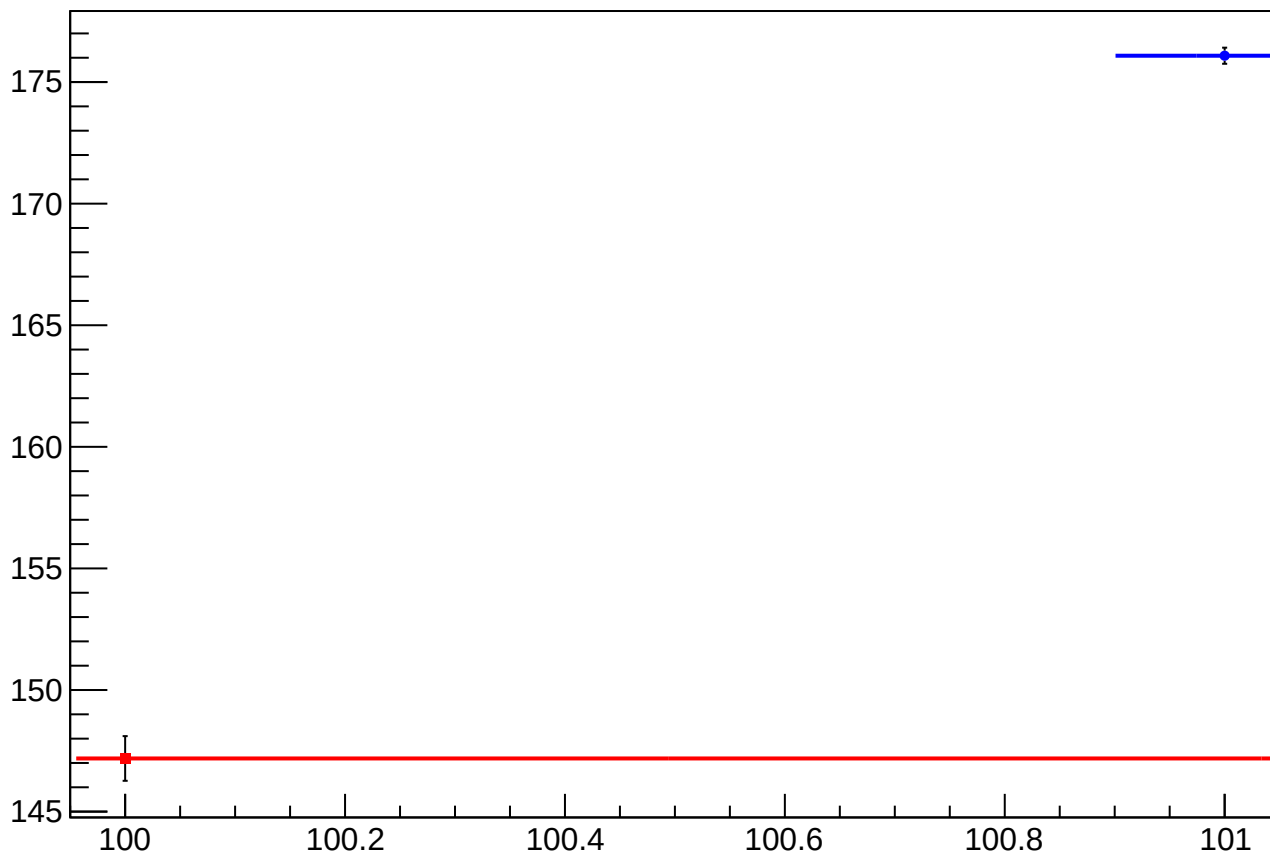
Right: -66.687 $\pm$ 7.125  $\chi^2$ /NDF: 6.6/1

In: -71.777 $\pm$ 7.397  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -66.687 $\pm$ 7.125  $\chi^2$ /NDF: 6.6/1

reg\_asym\_at1\_avg\_at2\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 176.083 $\pm$ 0.331  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 147.185 $\pm$ 0.919  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

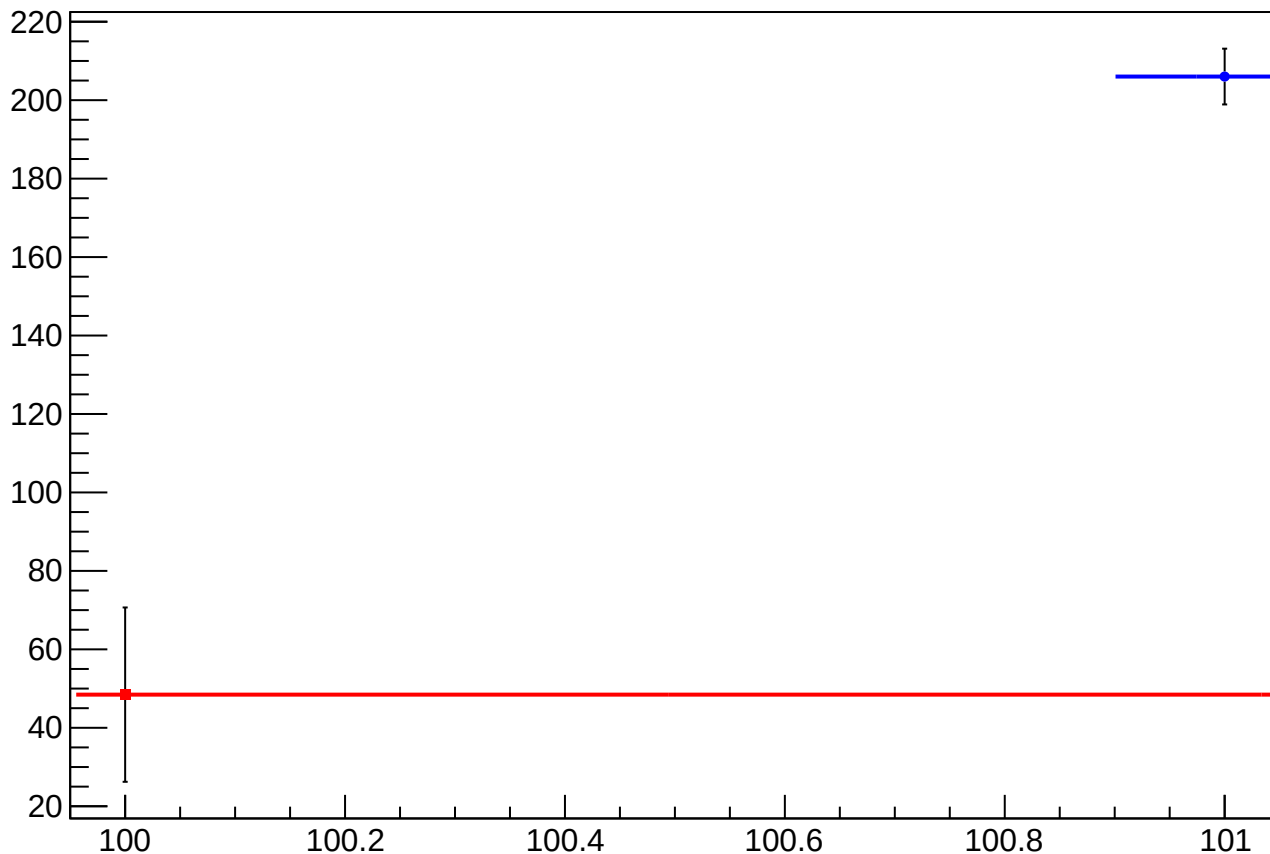
Right: 172.761 $\pm$ 0.311  $\chi^2/\text{NDF}$ : 876.0/1

In: 176.083 $\pm$ 0.331  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 172.761 $\pm$ 0.311  $\chi^2/\text{NDF}$ : 876.0/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 206.021 $\pm$ 7.109  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.454 $\pm$ 22.221  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

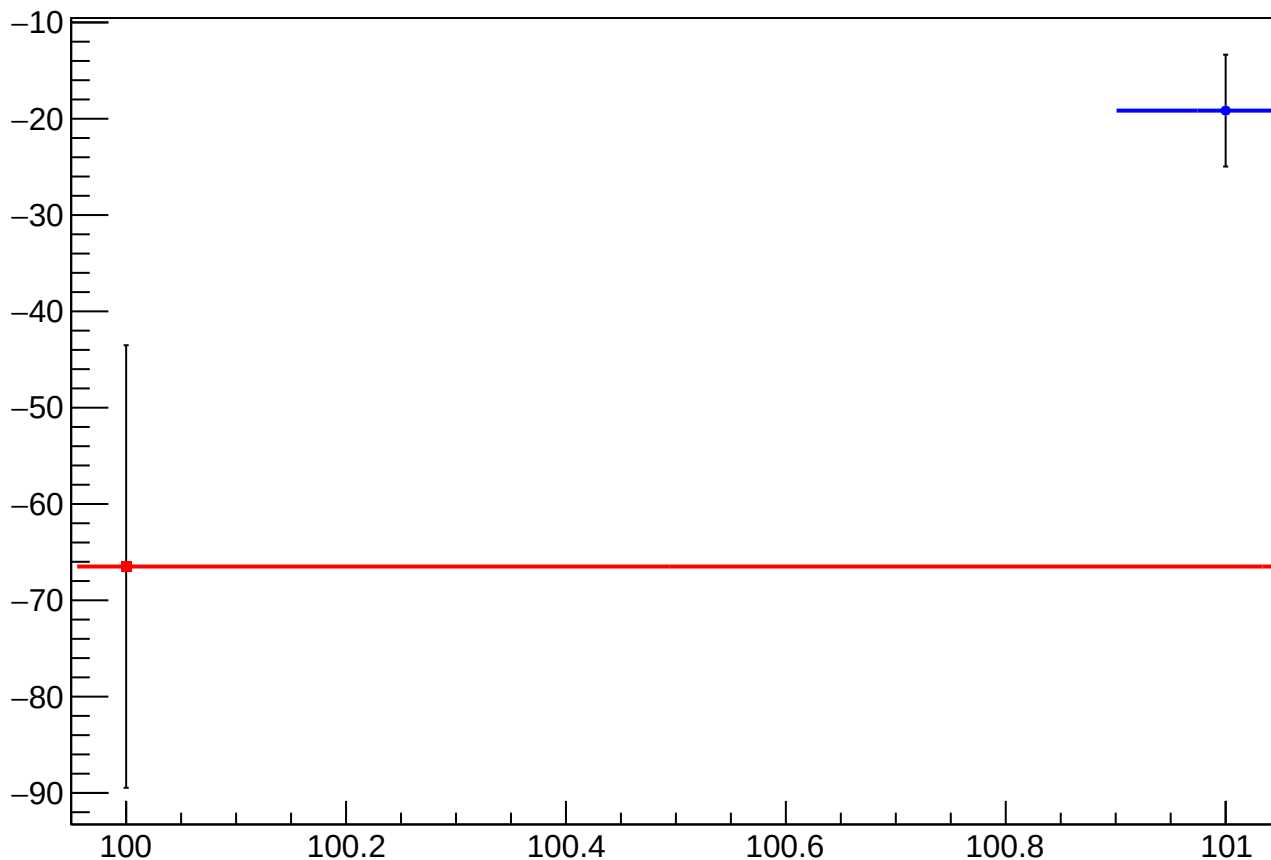
Right: 191.390 $\pm$ 6.771  $\chi^2/\text{NDF}$ : 45.6/1

In: 206.021 $\pm$ 7.109  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 191.390 $\pm$ 6.771  $\chi^2/\text{NDF}$ : 45.6/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -19.156+/-5.808  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -66.491+/-22.975  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

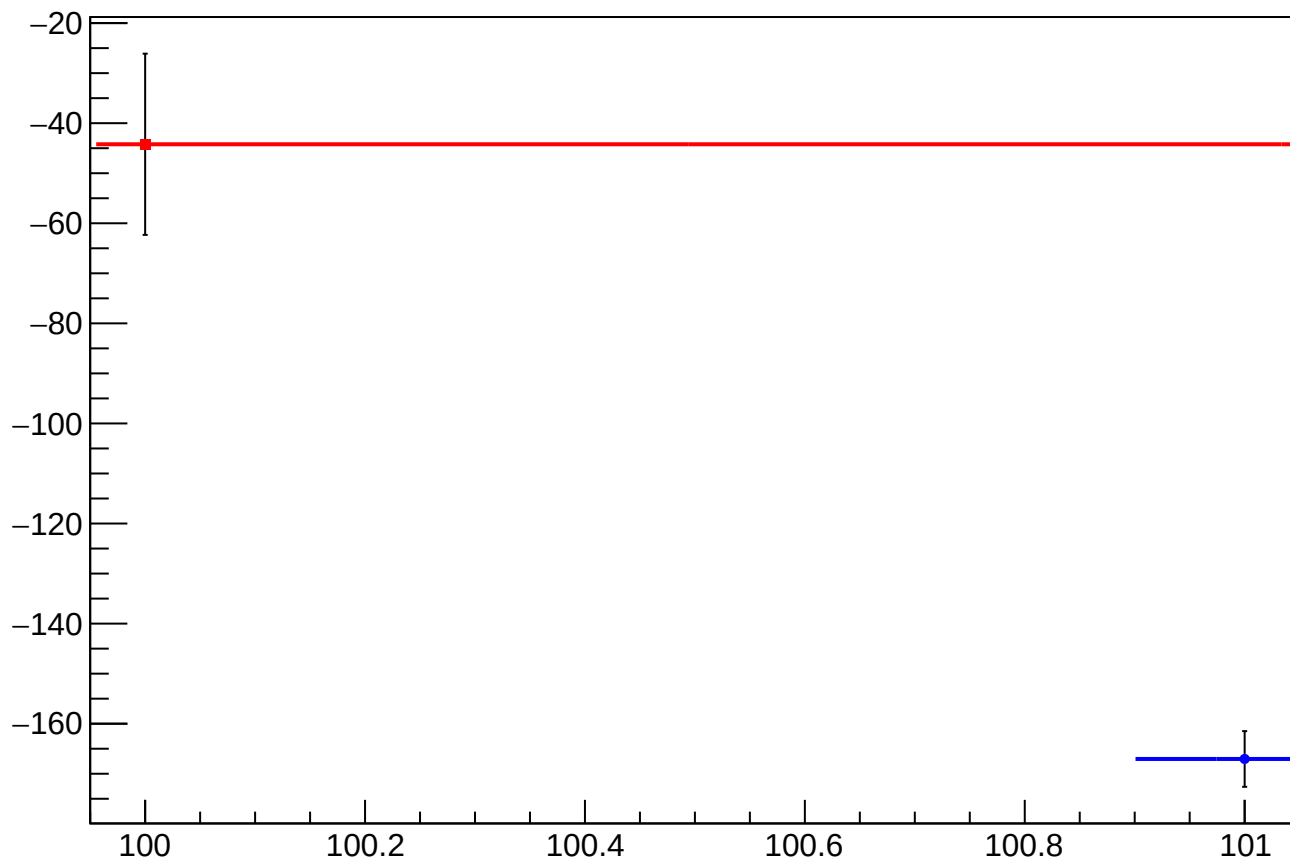
Right: -21.999+/-5.631  $\chi^2/\text{NDF}$ : 4.0/1

In: -19.156+/-5.808  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.999+/-5.631  $\chi^2/\text{NDF}$ : 4.0/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -167.046+/-5.563  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -44.215+/-18.106  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

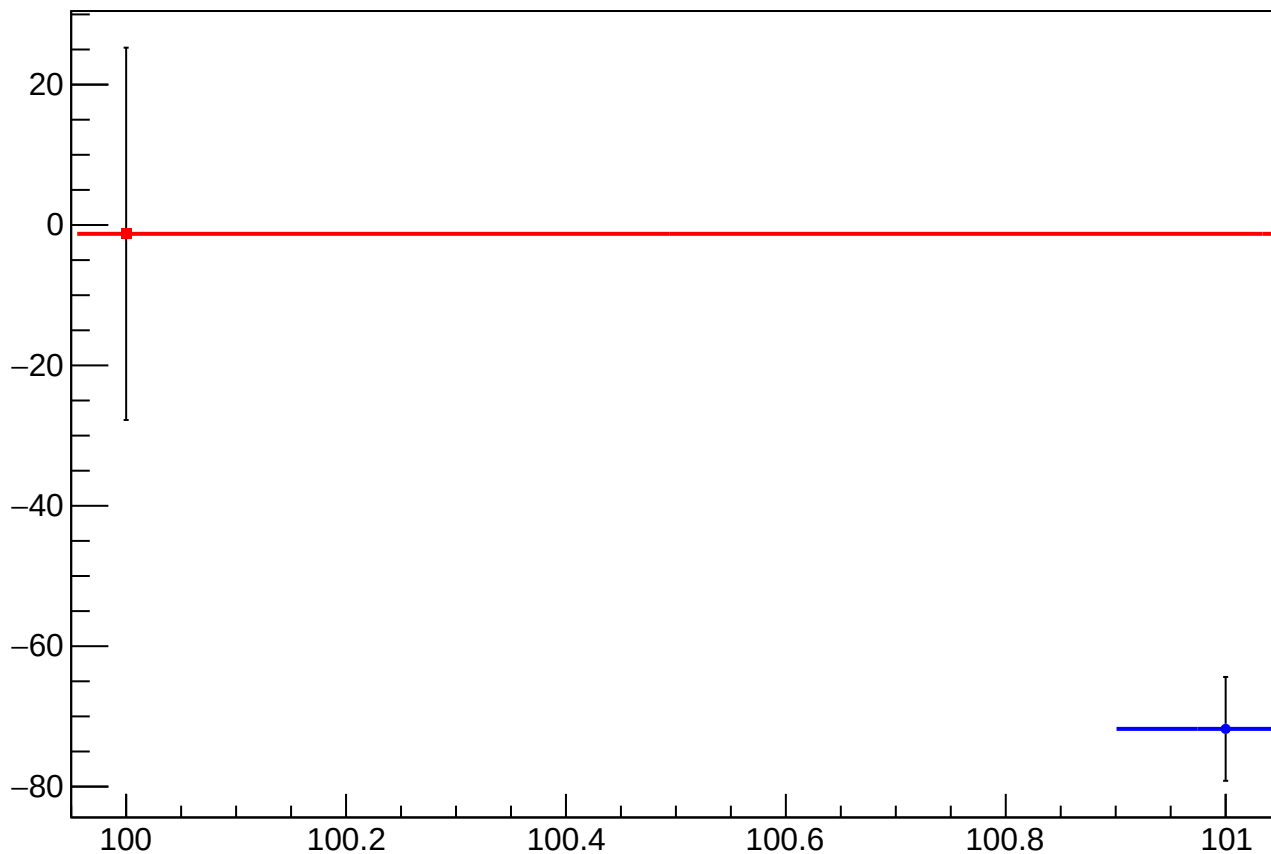
Right: -156.450+/-5.318  $\chi^2/\text{NDF}$ : 42.1/1

In: -167.046+/-5.563  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -156.450+/-5.318  $\chi^2/\text{NDF}$ : 42.1/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -71.777 $\pm$ 7.397  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1.258 $\pm$ 26.519  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

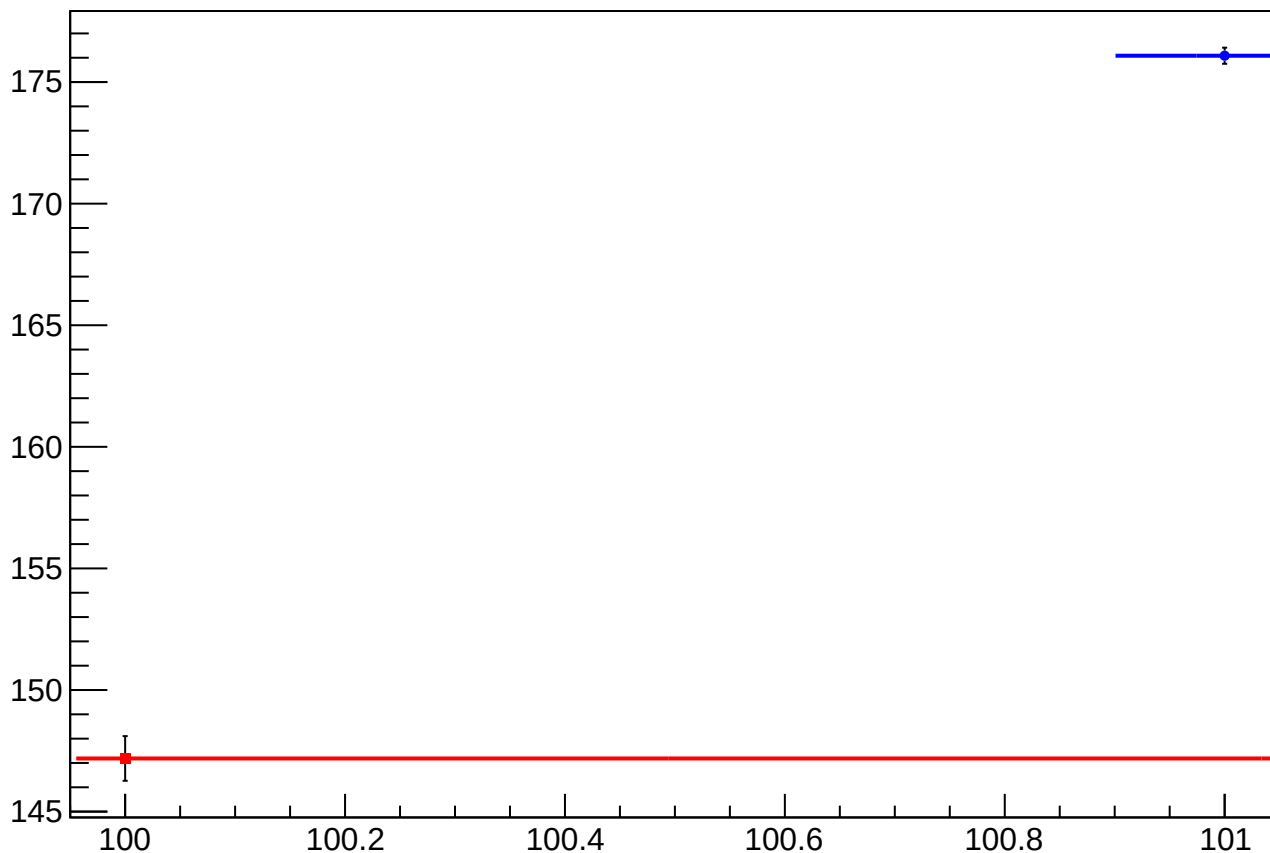
Right: -66.687 $\pm$ 7.125  $\chi^2$ /NDF: 6.6/1

In: -71.777 $\pm$ 7.397  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -66.687 $\pm$ 7.125  $\chi^2$ /NDF: 6.6/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 176.083 $\pm$ 0.331  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 147.185 $\pm$ 0.919  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 172.761 $\pm$ 0.311  $\chi^2$ /NDF: 876.0/1

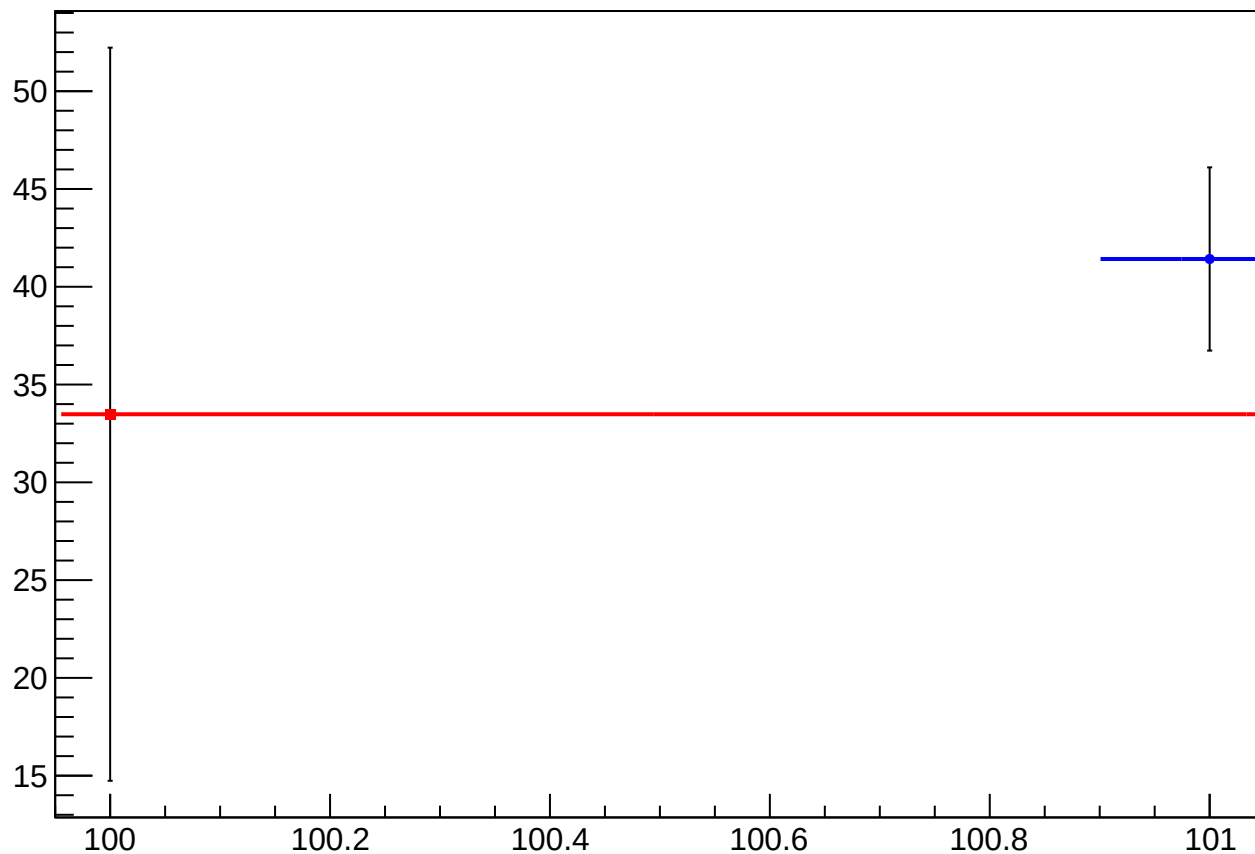
In: 176.083 $\pm$ 0.331  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 172.761 $\pm$ 0.311  $\chi^2$ /NDF: 876.0/1



reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 41.420+/-4.685  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 33.482+/-18.744  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

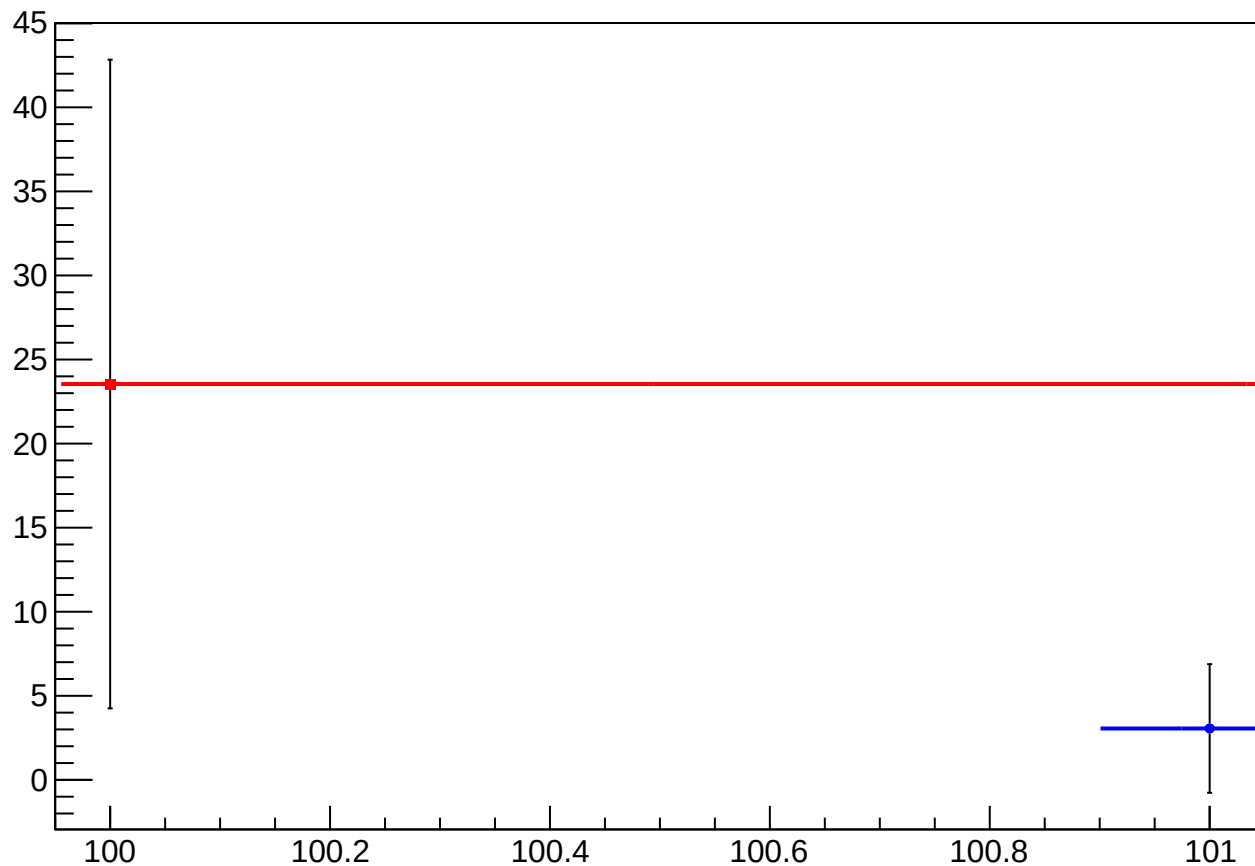
Right: 40.953+/-4.545  $\chi^2/\text{NDF}$ : 0.2/1

In: 41.420+/-4.685  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.953+/-4.545  $\chi^2/\text{NDF}$ : 0.2/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.057+/-3.826  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 23.543+/-19.292  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

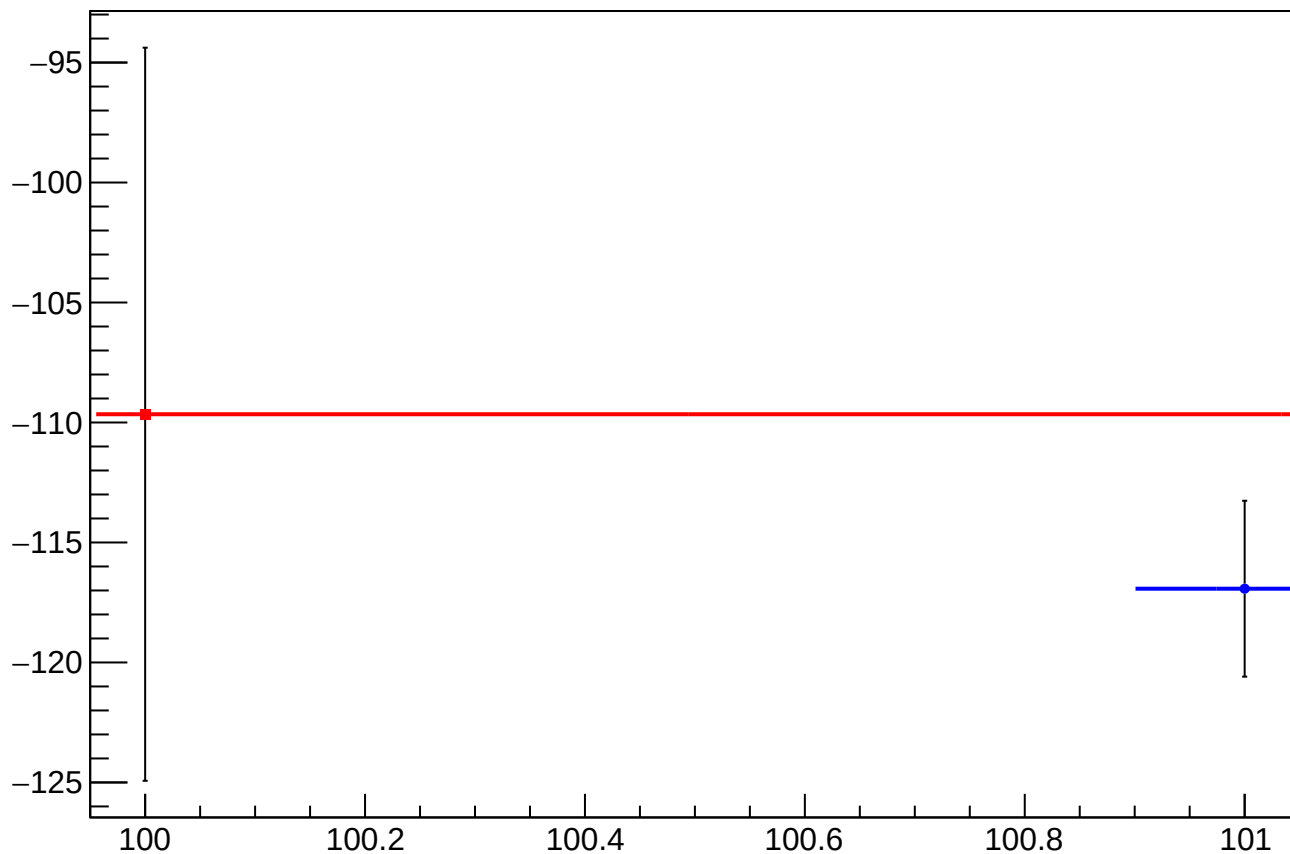
Right: 3.832+/-3.753  $\chi^2/\text{NDF}$ : 1.1/1

In: 3.057+/-3.826  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.832+/-3.753  $\chi^2/\text{NDF}$ : 1.1/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -116.926+/-3.665  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -109.656+/-15.276  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

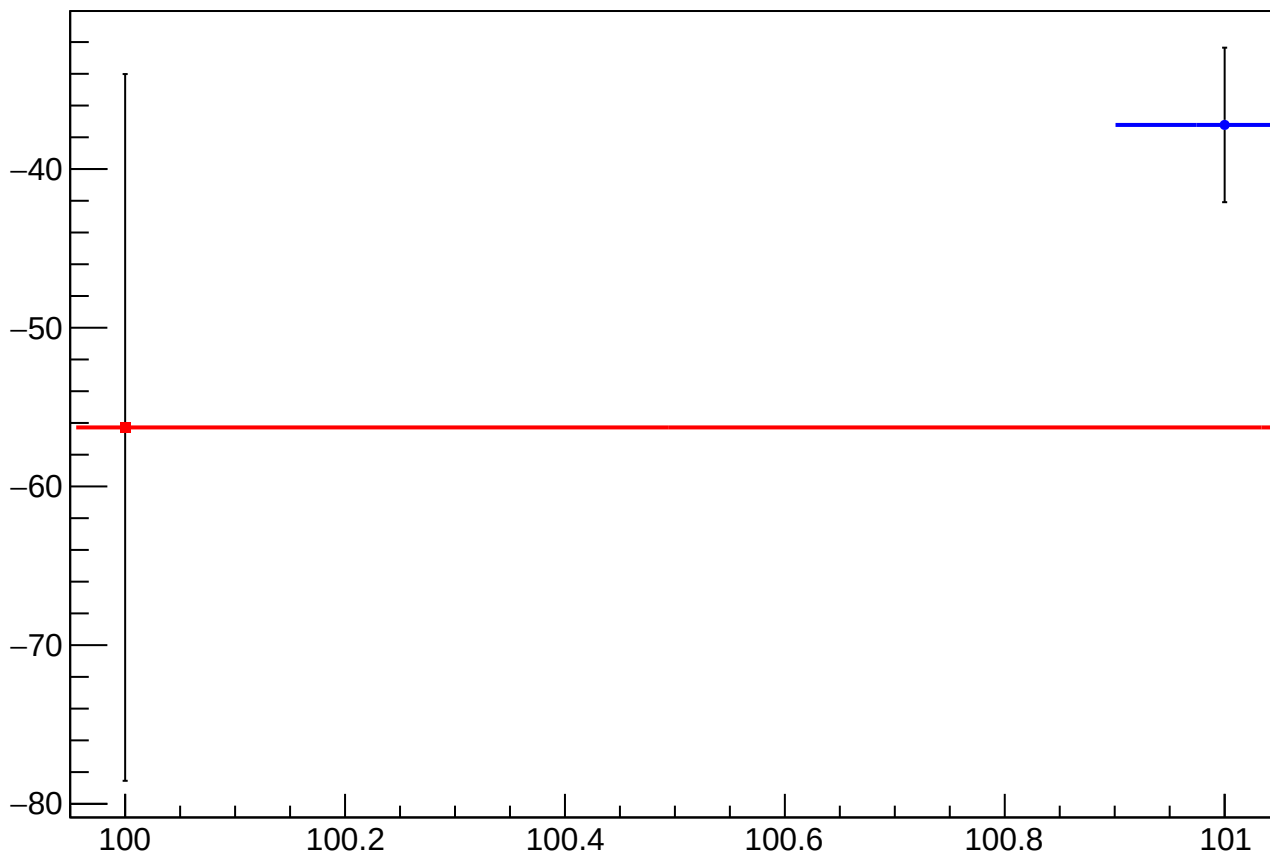
Right: -116.531+/-3.564  $\chi^2$ /NDF: 0.2/1

In: -116.926+/-3.665  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -116.531+/-3.564  $\chi^2$ /NDF: 0.2/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -37.221 $\pm$ 4.868  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -56.282 $\pm$ 22.266  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

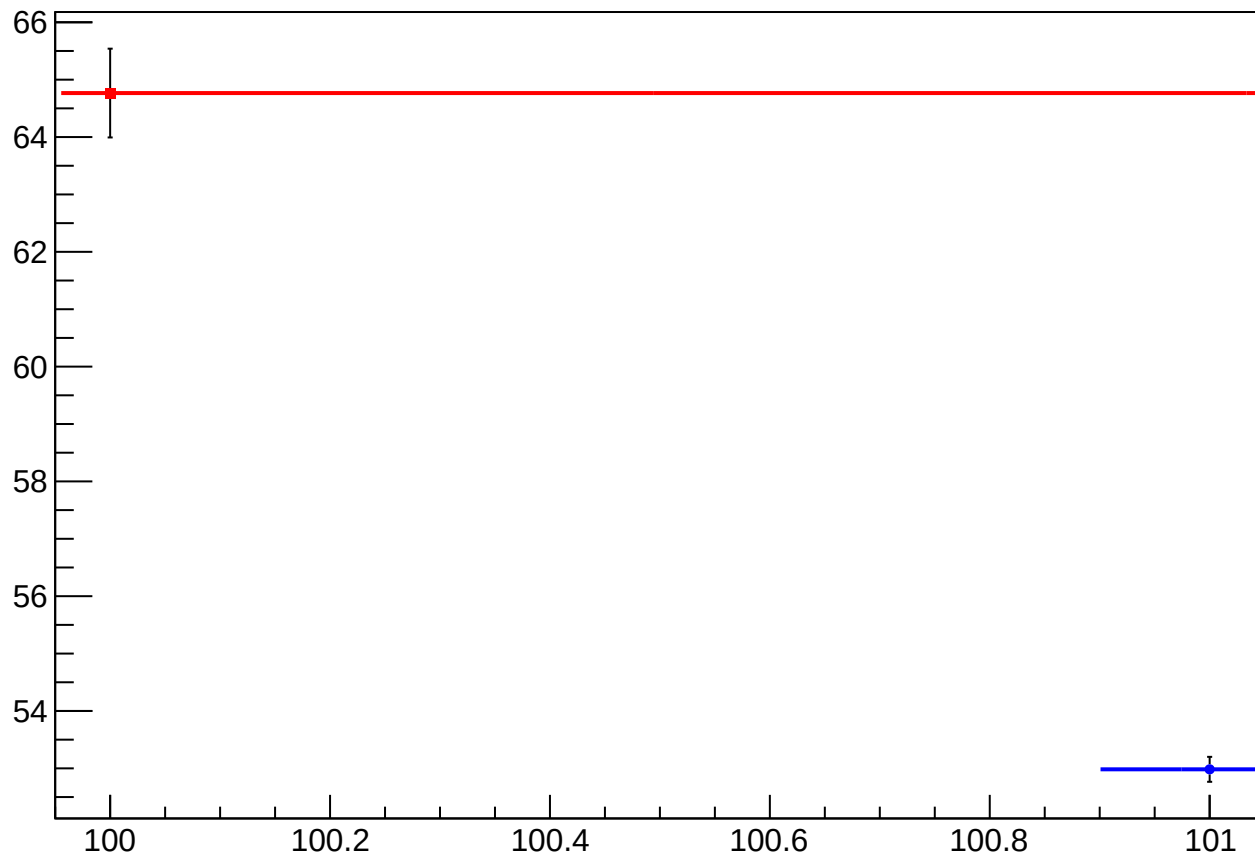
Right: -38.091 $\pm$ 4.756  $\chi^2$ /NDF: 0.7/1

In: -37.221 $\pm$ 4.868  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -38.091 $\pm$ 4.756  $\chi^2$ /NDF: 0.7/1

reg\_asym\_atl1r2\_dd\_atl2r1\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 52.983+/-0.217  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 64.767+/-0.773  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

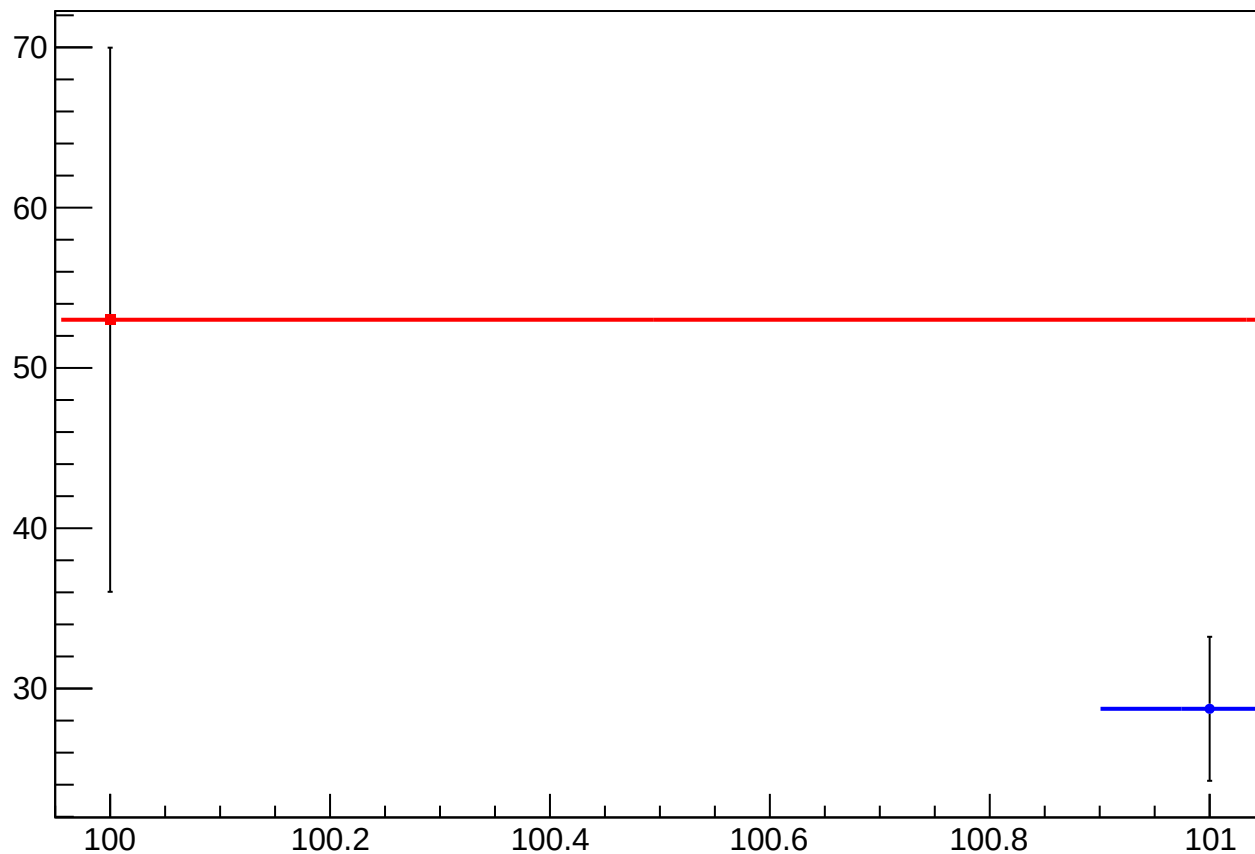
Right: 53.846+/-0.209  $\chi^2/\text{NDF}$ : 215.1/1

In: 52.983+/-0.217  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 53.846+/-0.209  $\chi^2/\text{NDF}$ : 215.1/1

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 28.736+/-4.492  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 53.007+/-16.973  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

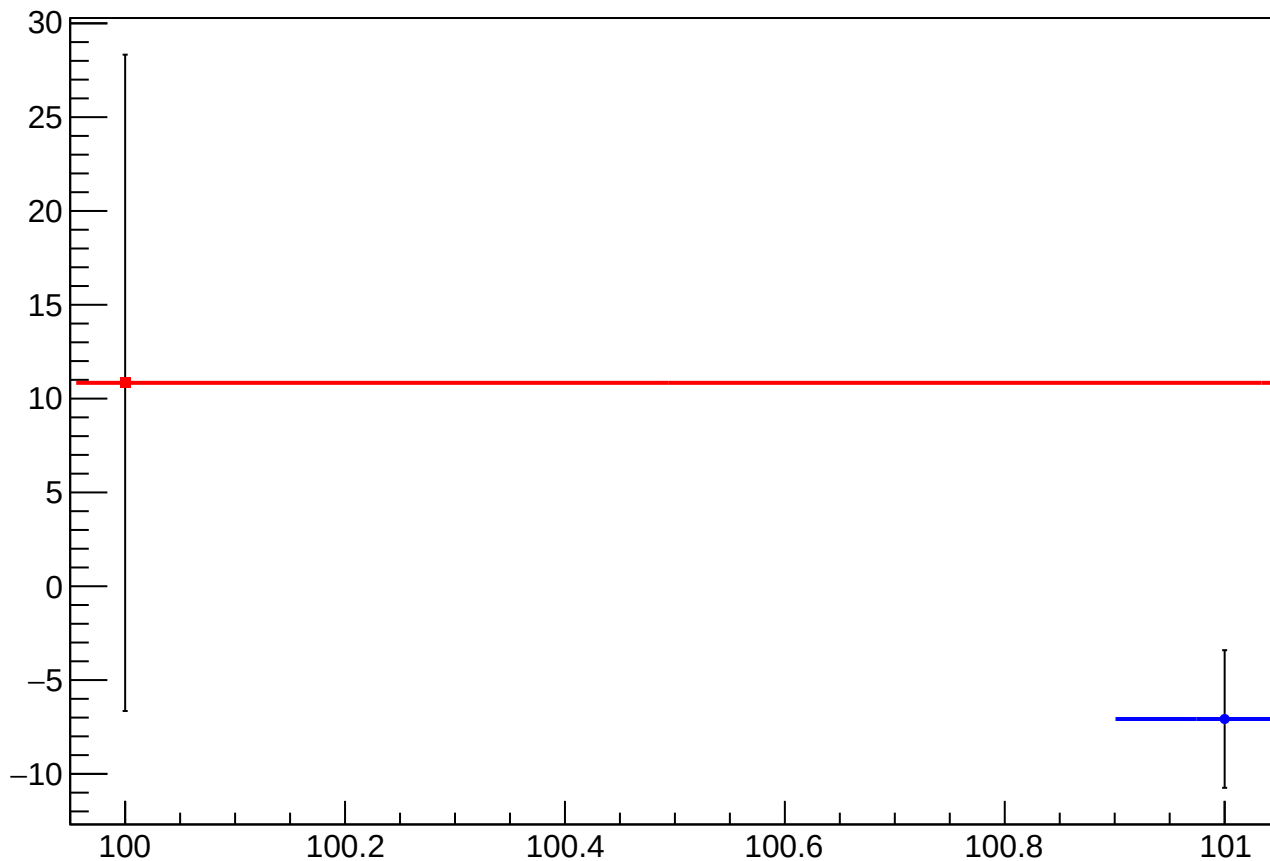
Right: 30.324+/-4.342  $\chi^2$ /NDF: 1.9/1

In: 28.736+/-4.492  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 30.324+/-4.342  $\chi^2$ /NDF: 1.9/1

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -7.075+/-3.667  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 10.841+/-17.489  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

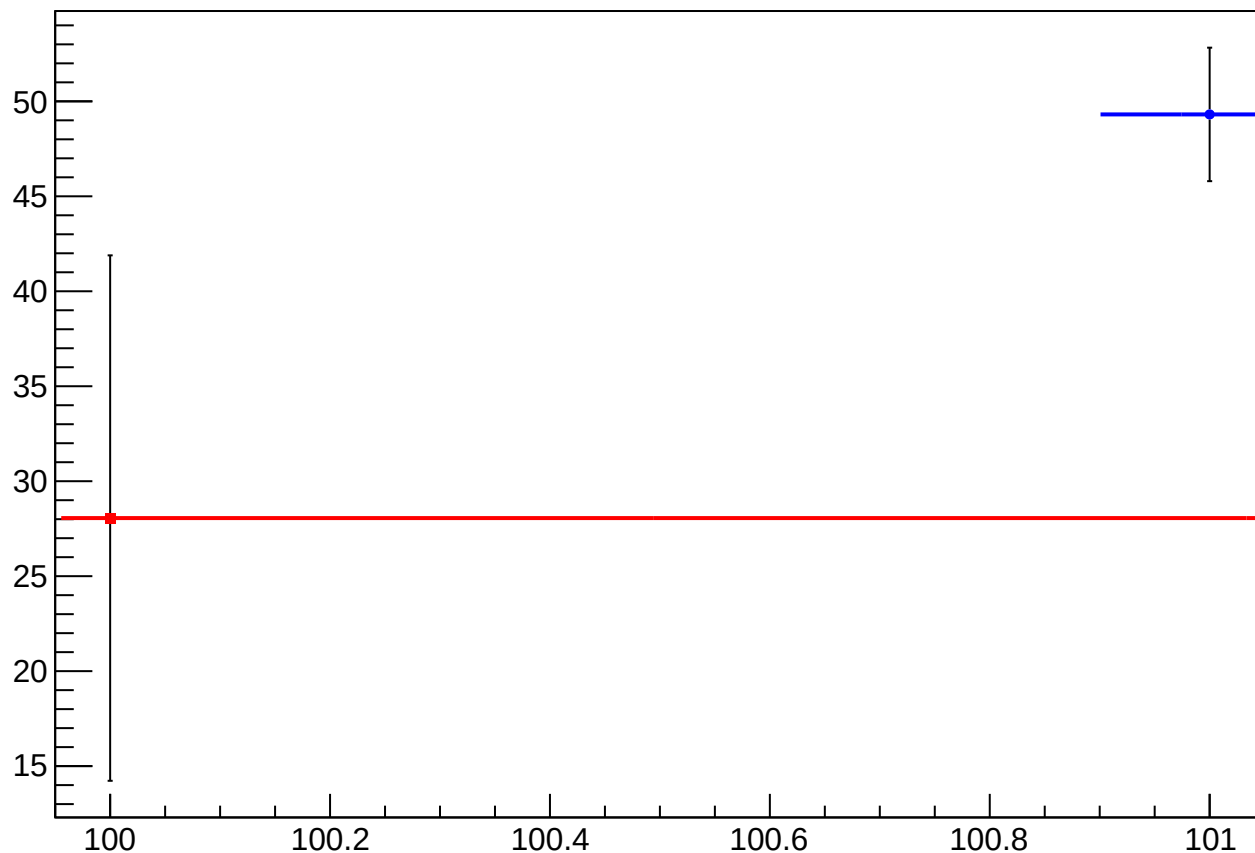
Right: -6.321+/-3.589  $\chi^2/\text{NDF}$ : 1.0/1

In: -7.075+/-3.667  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.321+/-3.589  $\chi^2/\text{NDF}$ : 1.0/1

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 49.311+/-3.514  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.059+/-13.832  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 48.023+/-3.406  $\chi^2/\text{NDF}$ : 2.2/1

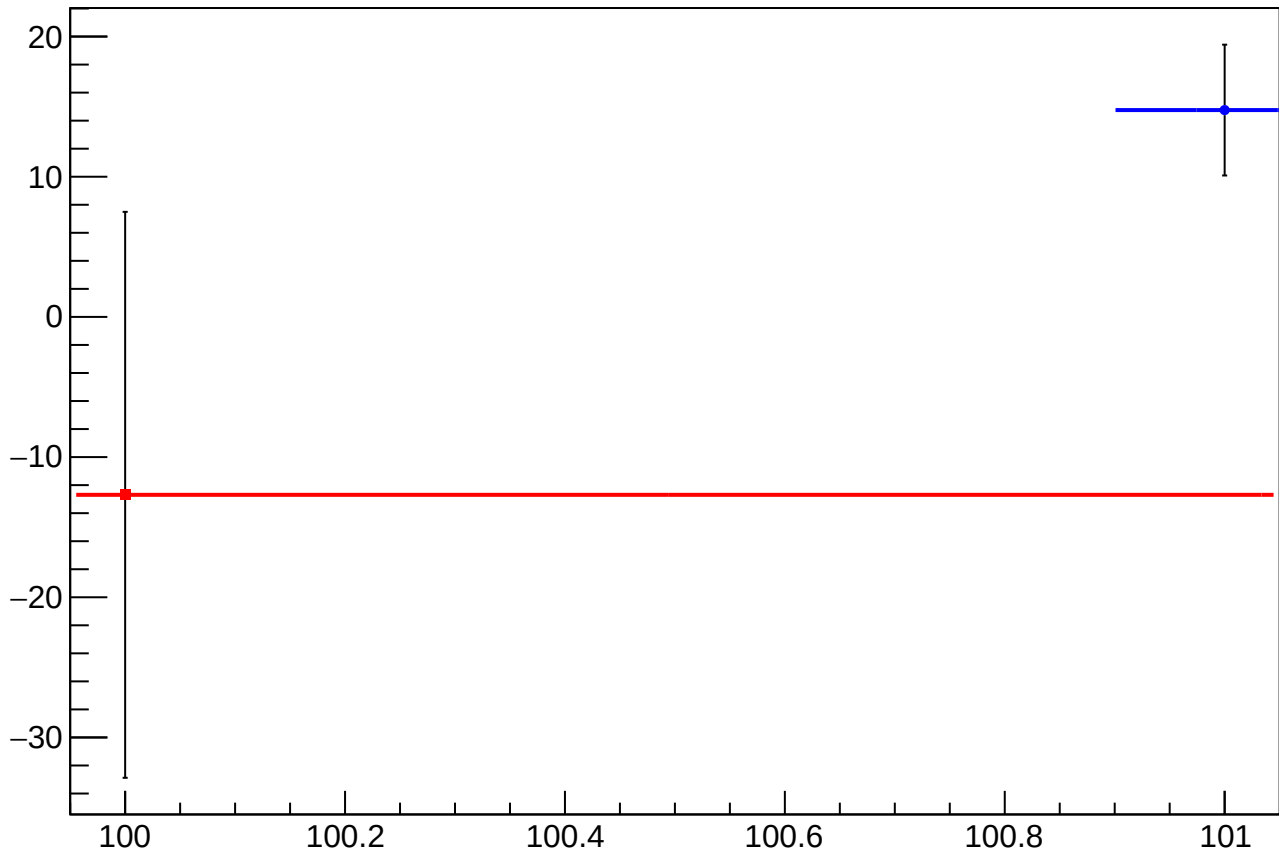
In: 49.311+/-3.514  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.023+/-3.406  $\chi^2/\text{NDF}$ : 2.2/1



reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 14.755+/-4.666  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -12.692+/-20.186  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

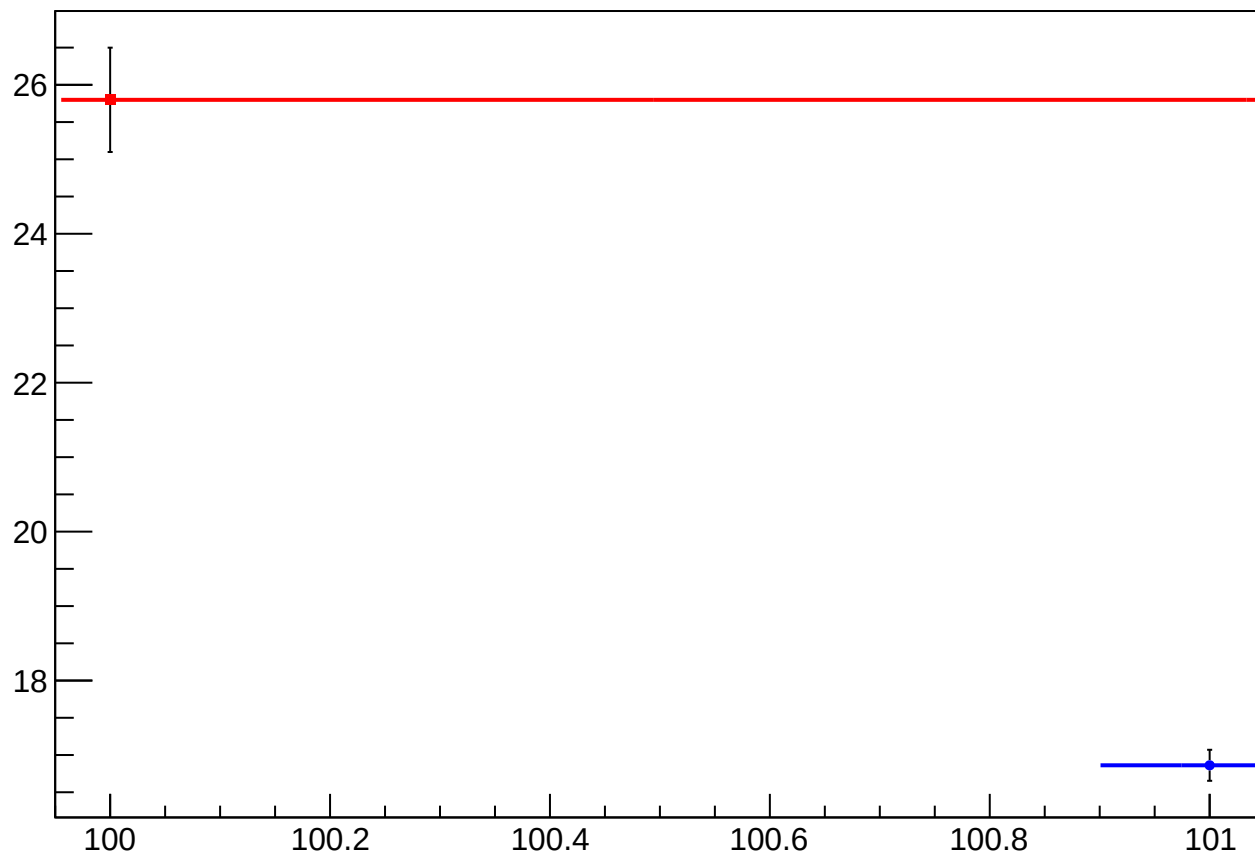
Right: 13.363+/-4.546  $\chi^2/\text{NDF}$ : 1.8/1

In: 14.755+/-4.666  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.363+/-4.546  $\chi^2/\text{NDF}$ : 1.8/1

reg\_asym\_at1\_dd\_at2\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 16.862 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 25.799 $\pm$ 0.701  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

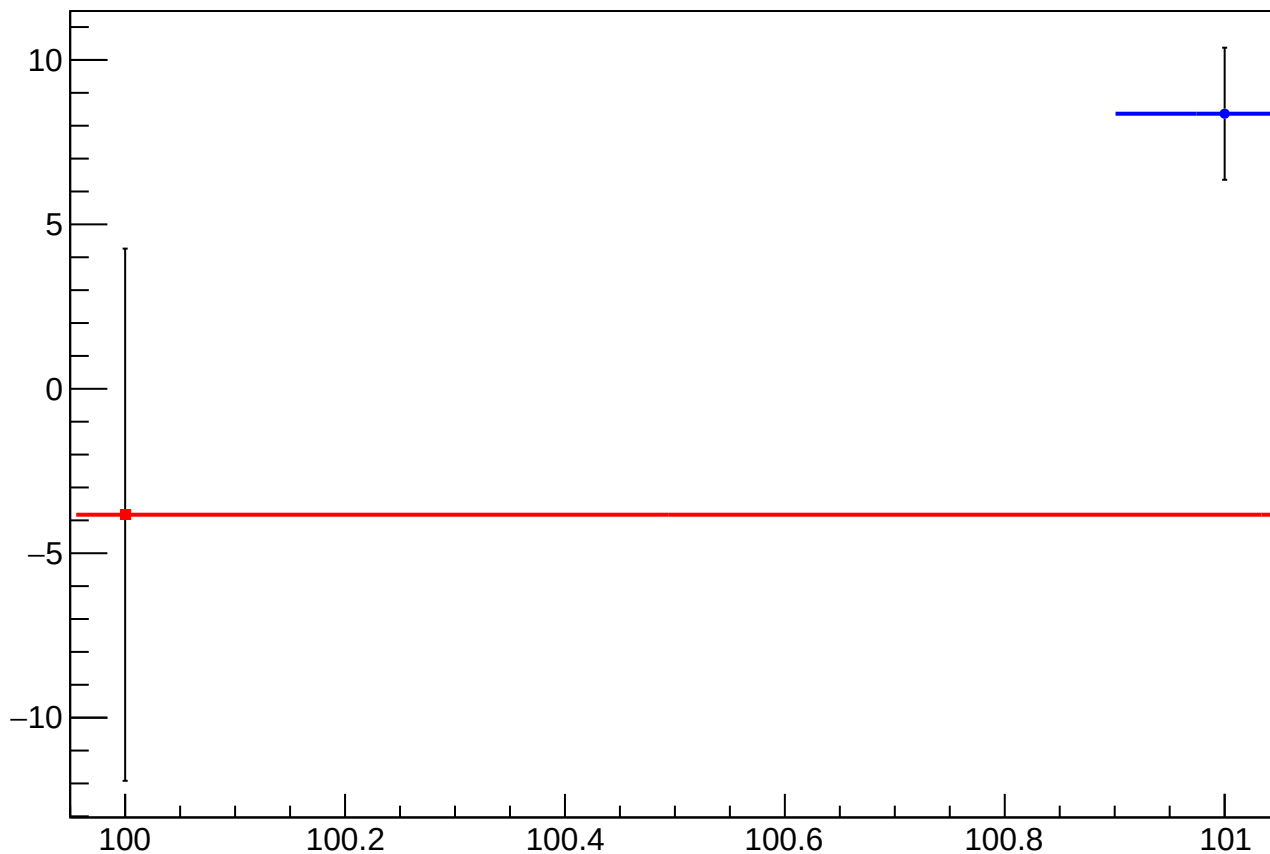
Right: 17.587 $\pm$ 0.200  $\chi^2$ /NDF: 149.5/1

In: 16.862 $\pm$ 0.208  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.587 $\pm$ 0.200  $\chi^2$ /NDF: 149.5/1

reg\_asym\_usl\_atl1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 8.365+/-2.008  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.829+/-8.091  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

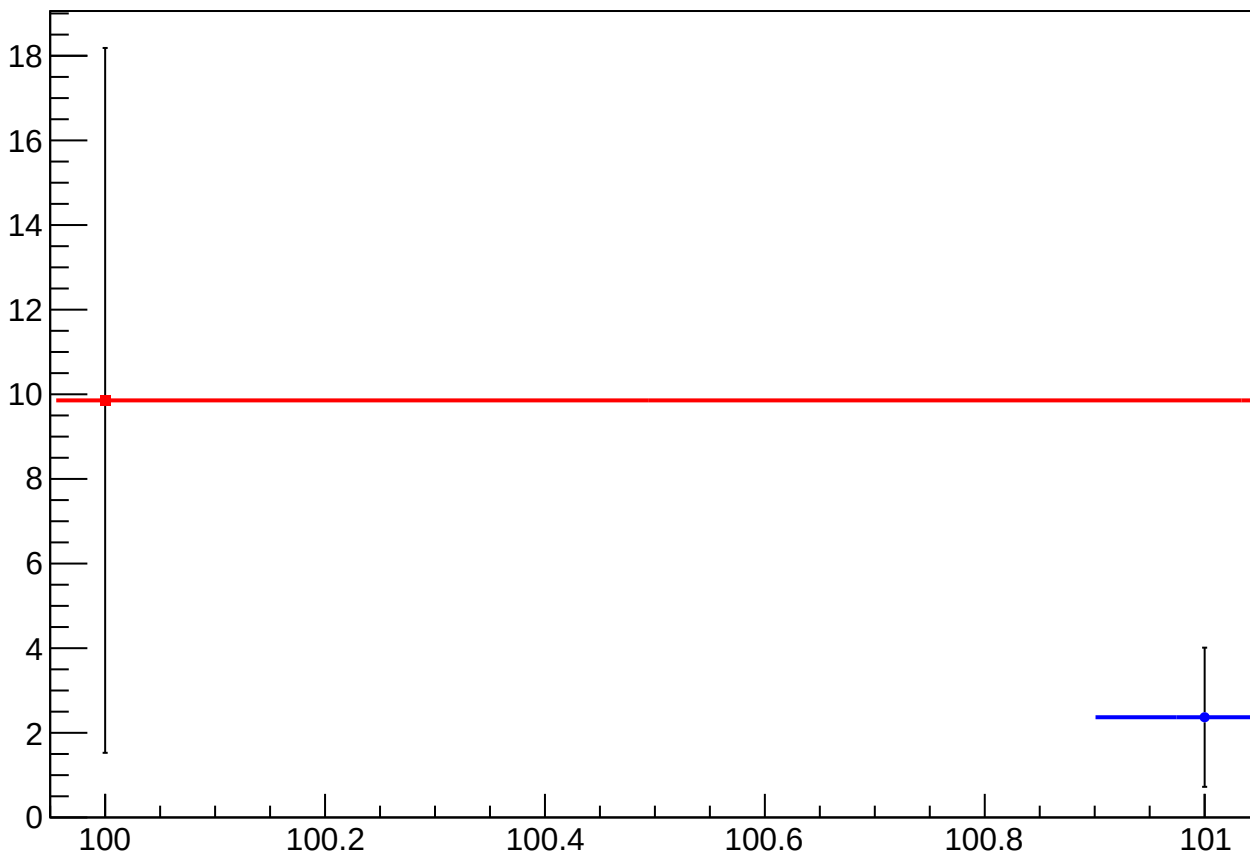
Right: 7.657+/-1.949  $\chi^2/\text{NDF}$ : 2.1/1

In: 8.365+/-2.008  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.657+/-1.949  $\chi^2/\text{NDF}$ : 2.1/1

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 2.368+/-1.644  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 9.856+/-8.329  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

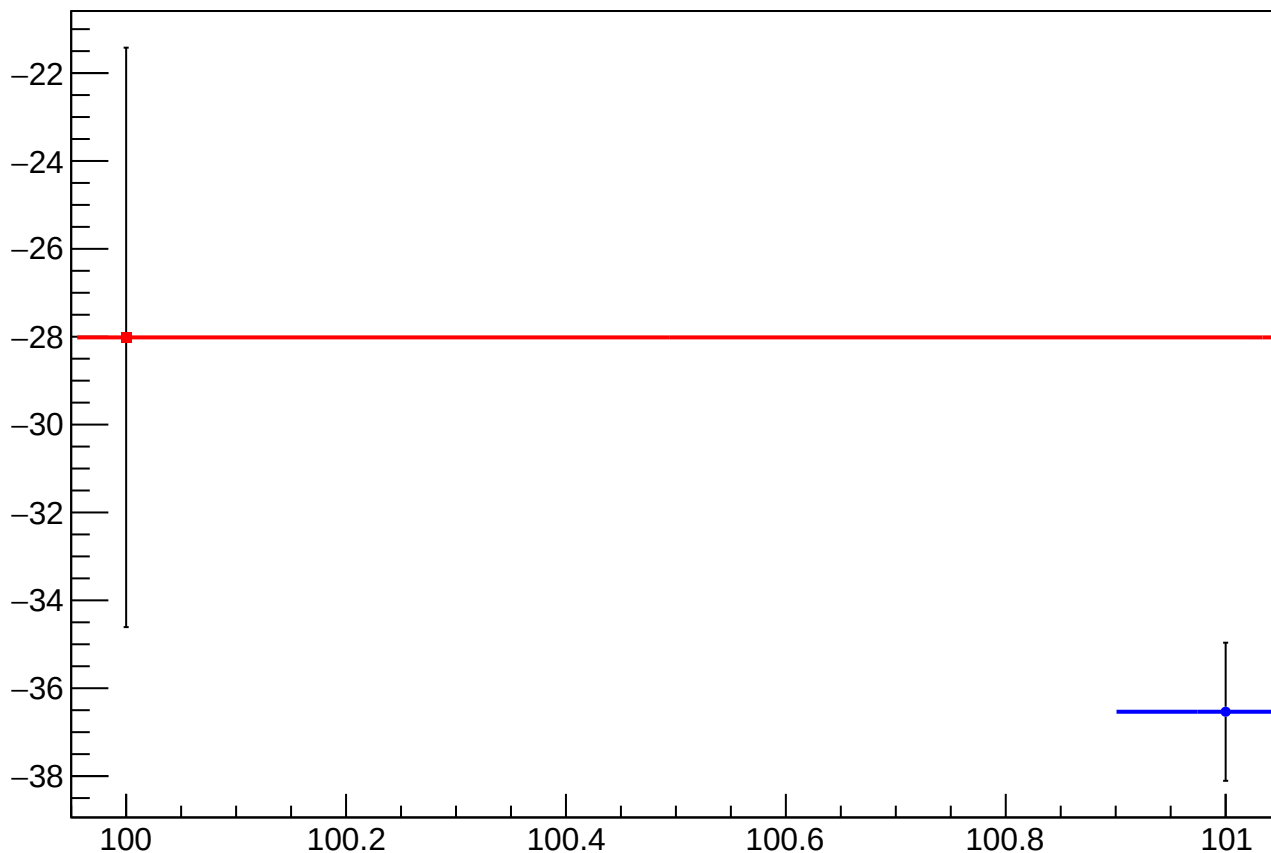
Right: 2.649+/-1.613  $\chi^2/\text{NDF}$ : 0.8/1

In: 2.368+/-1.644  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.649+/-1.613  $\chi^2/\text{NDF}$ : 0.8/1

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -36.535+/-1.572  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -28.015+/-6.594  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

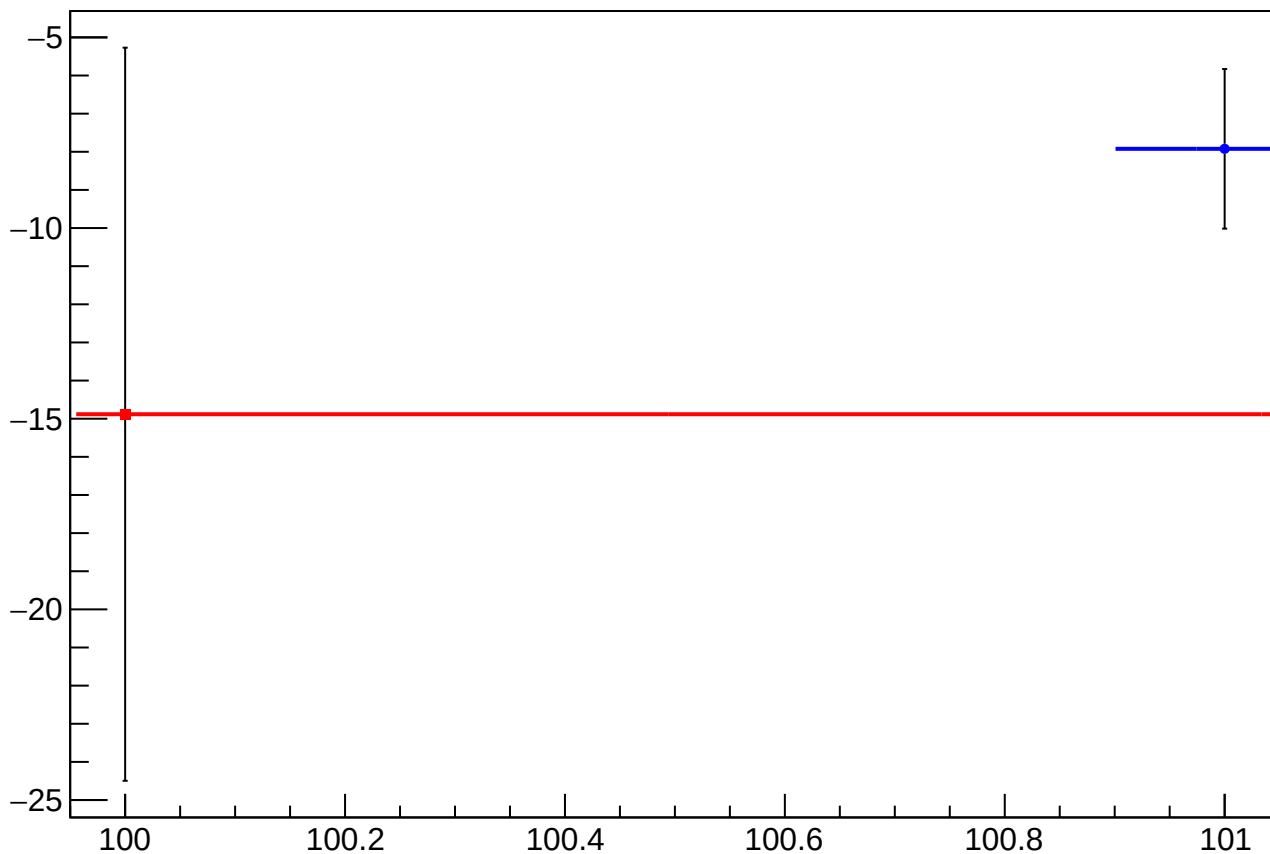
Right: -36.077+/-1.529  $\chi^2/\text{NDF}$ : 1.6/1

In: -36.535+/-1.572  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -36.077+/-1.529  $\chi^2/\text{NDF}$ : 1.6/1

reg\_asym\_usl\_atl1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -7.922+/-2.092  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -14.883+/-9.613  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

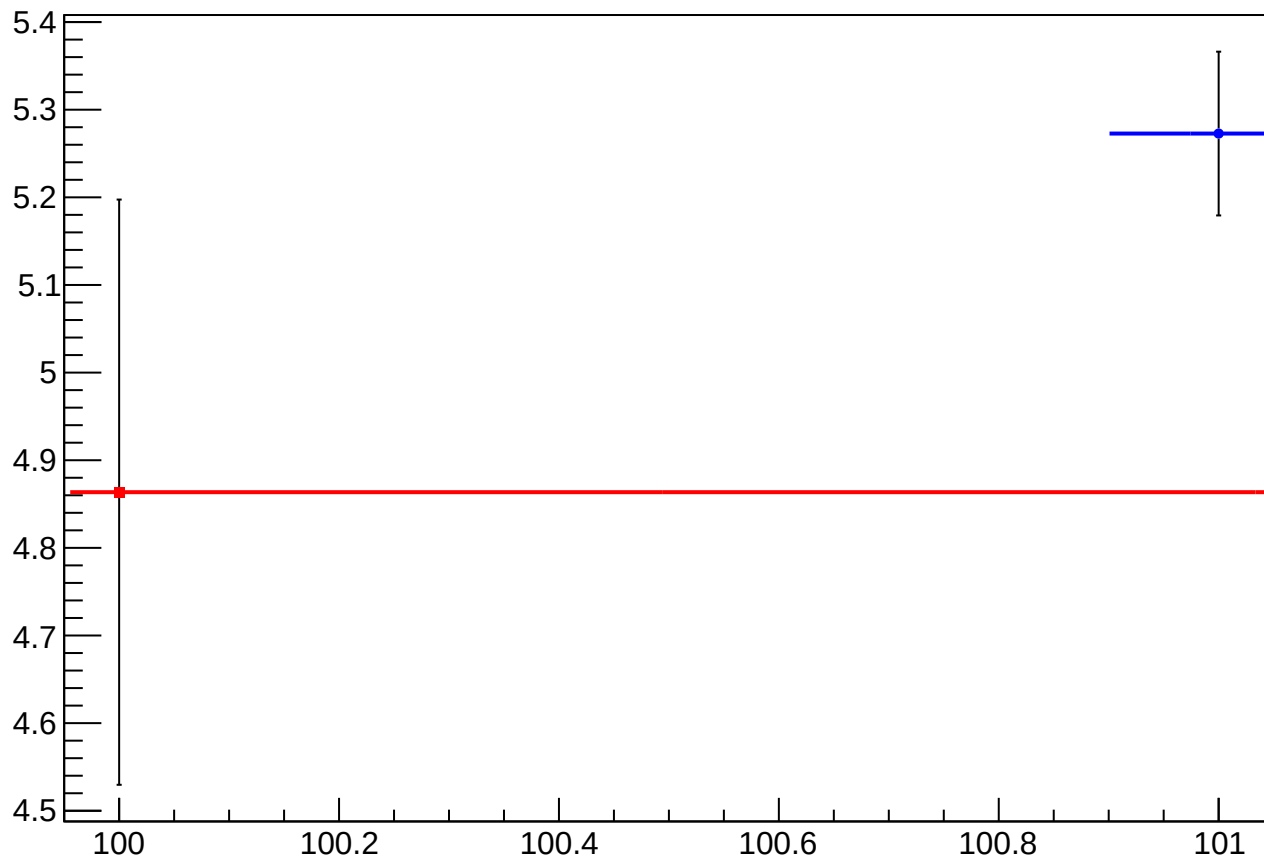
Right: -8.237+/-2.045  $\chi^2/\text{NDF}$ : 0.5/1

In: -7.922+/-2.092  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -8.237+/-2.045  $\chi^2/\text{NDF}$ : 0.5/1

reg\_asym\_usl\_atl1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 5.273+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4.864+/-0.334  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

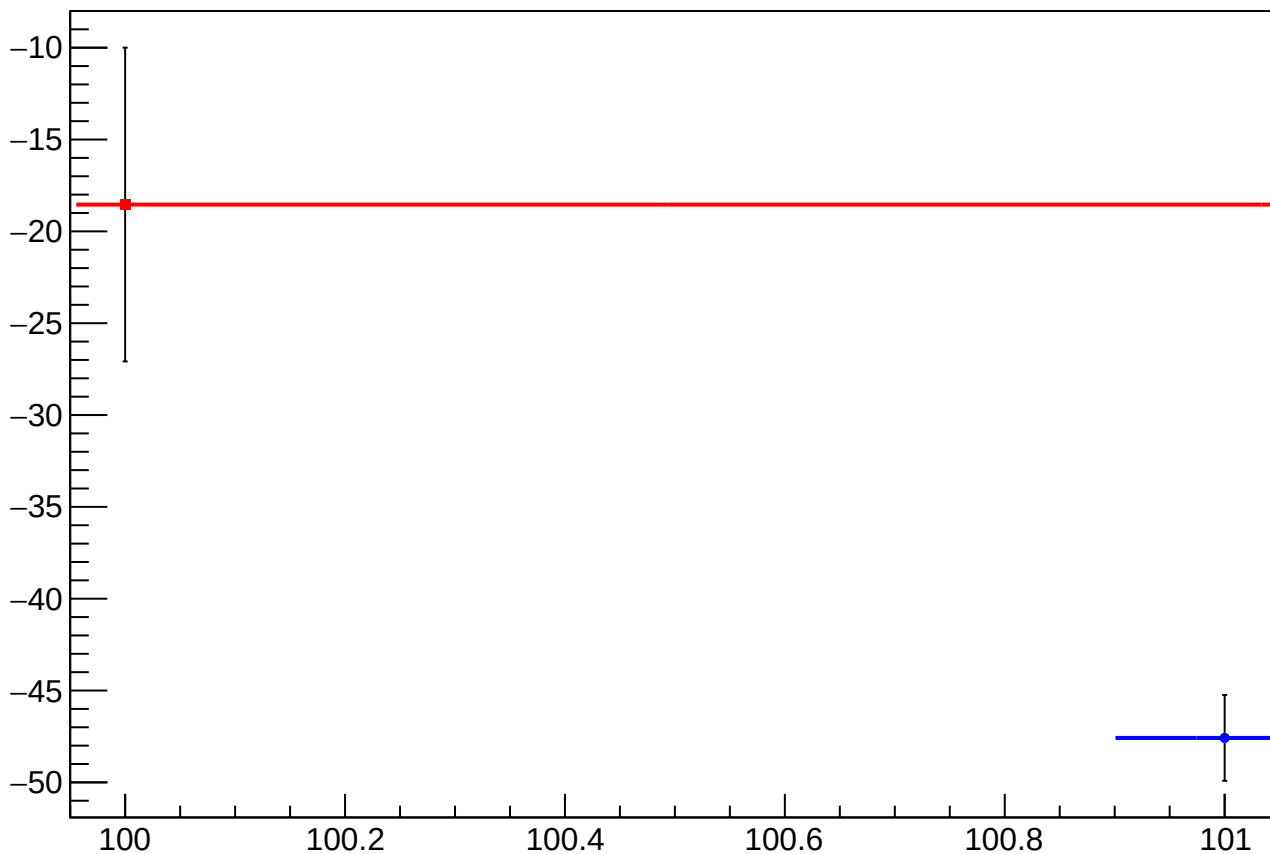
Right: 5.243+/-0.090  $\chi^2/\text{NDF}$ : 1.4/1

In: 5.273+/-0.093  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.243+/-0.090  $\chi^2/\text{NDF}$ : 1.4/1

reg\_asym\_usl\_atl1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -47.579 $\pm$ 2.335  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -18.541 $\pm$ 8.542  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -45.560 $\pm$ 2.252  $\chi^2$ /NDF: 10.8/1

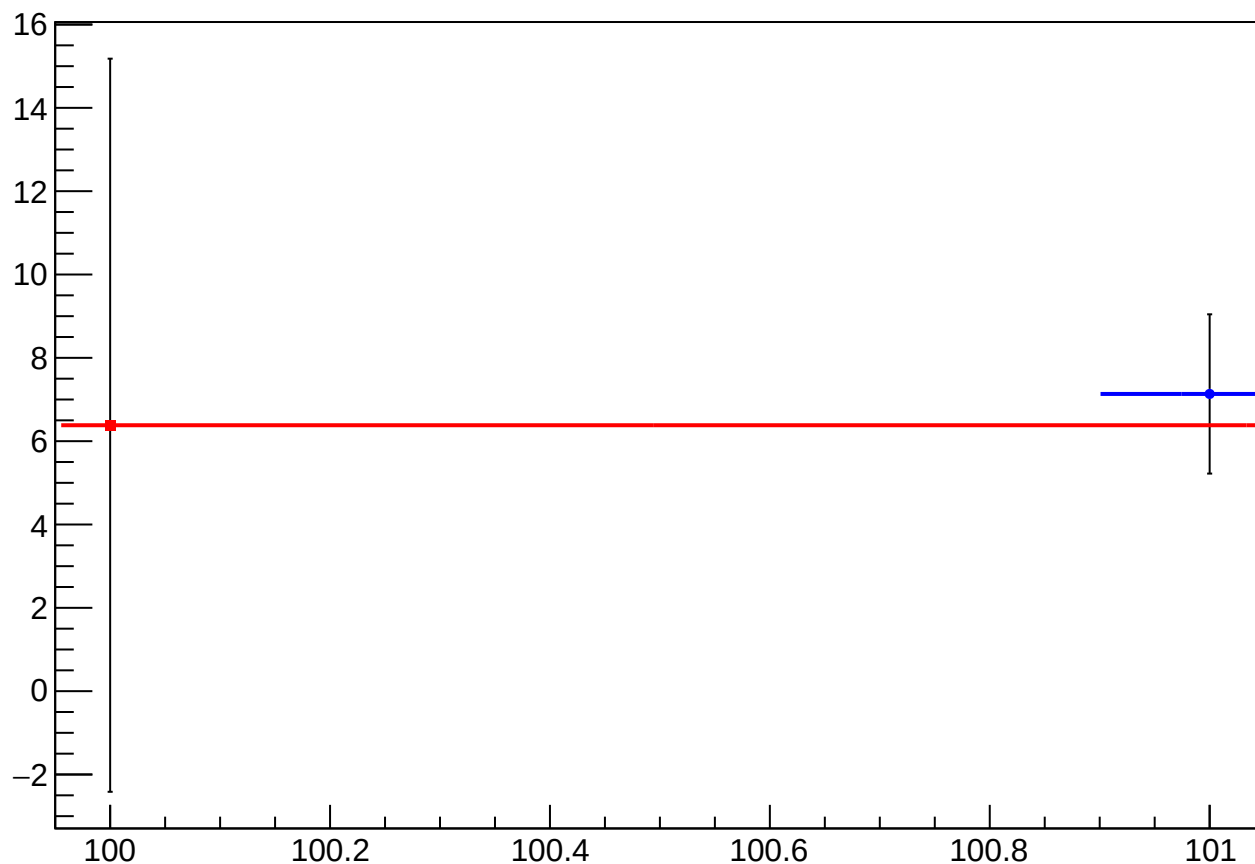
In: -47.579 $\pm$ 2.335  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -45.560 $\pm$ 2.252  $\chi^2$ /NDF: 10.8/1



reg\_asym\_usl\_atl1\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 7.133+/-1.911  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 6.383+/-8.798  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

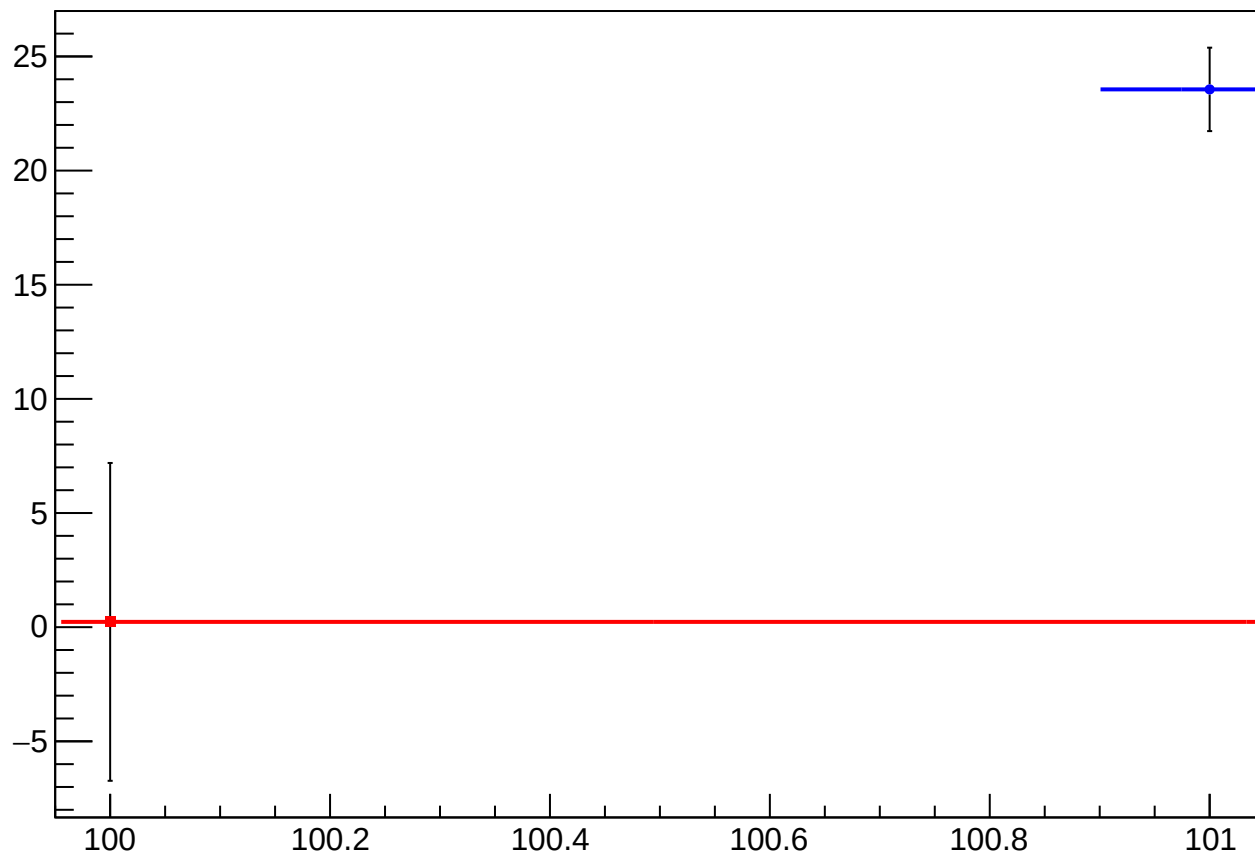
Right: 7.100+/-1.868  $\chi^2/\text{NDF}$ : 0.0/1

In: 7.133+/-1.911  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.100+/-1.868  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_usl\_atl1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 23.557+/-1.827  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.232+/-6.961  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

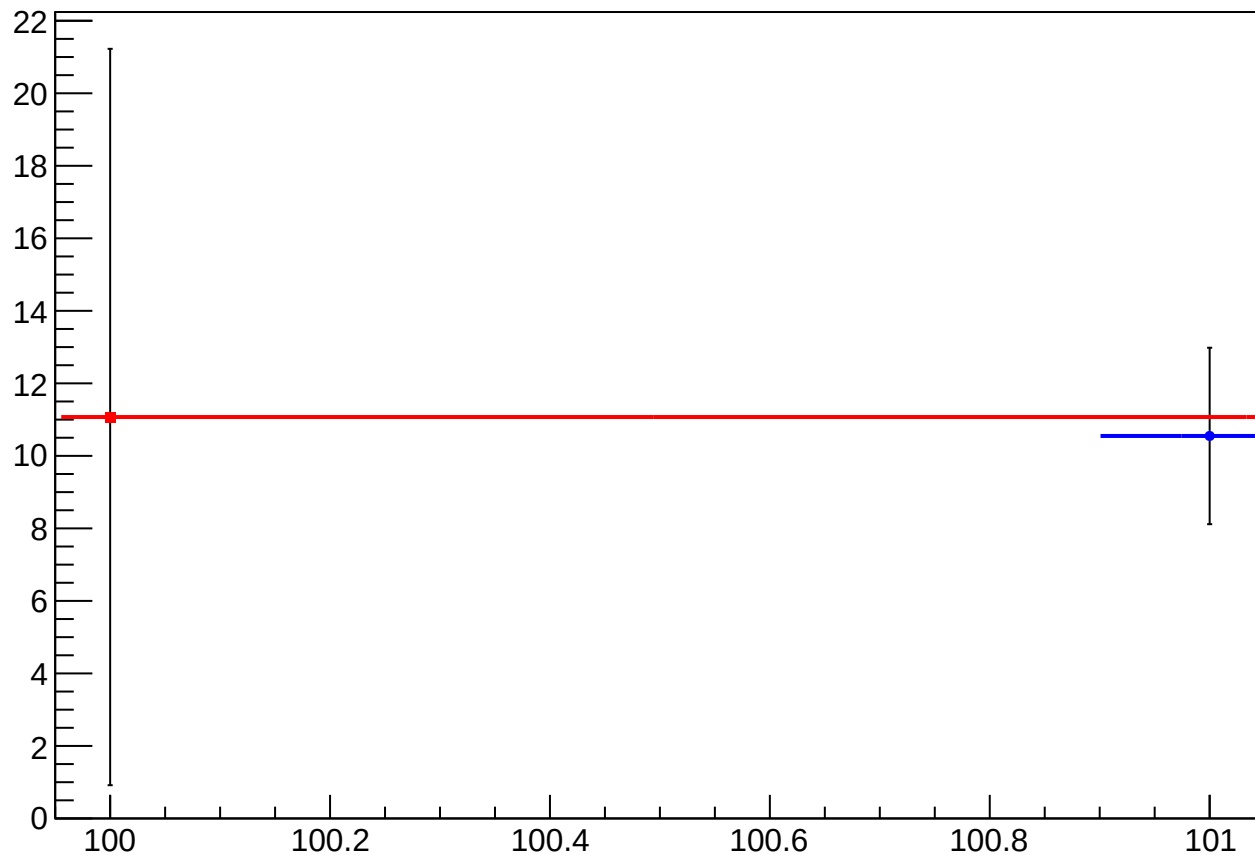
Right: 22.054+/-1.767  $\chi^2/\text{NDF}$ : 10.5/1

In: 23.557+/-1.827  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 22.054+/-1.767  $\chi^2/\text{NDF}$ : 10.5/1

reg\_asym\_usl\_atl1\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.549 $\pm$ 2.433  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.071 $\pm$ 10.155  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

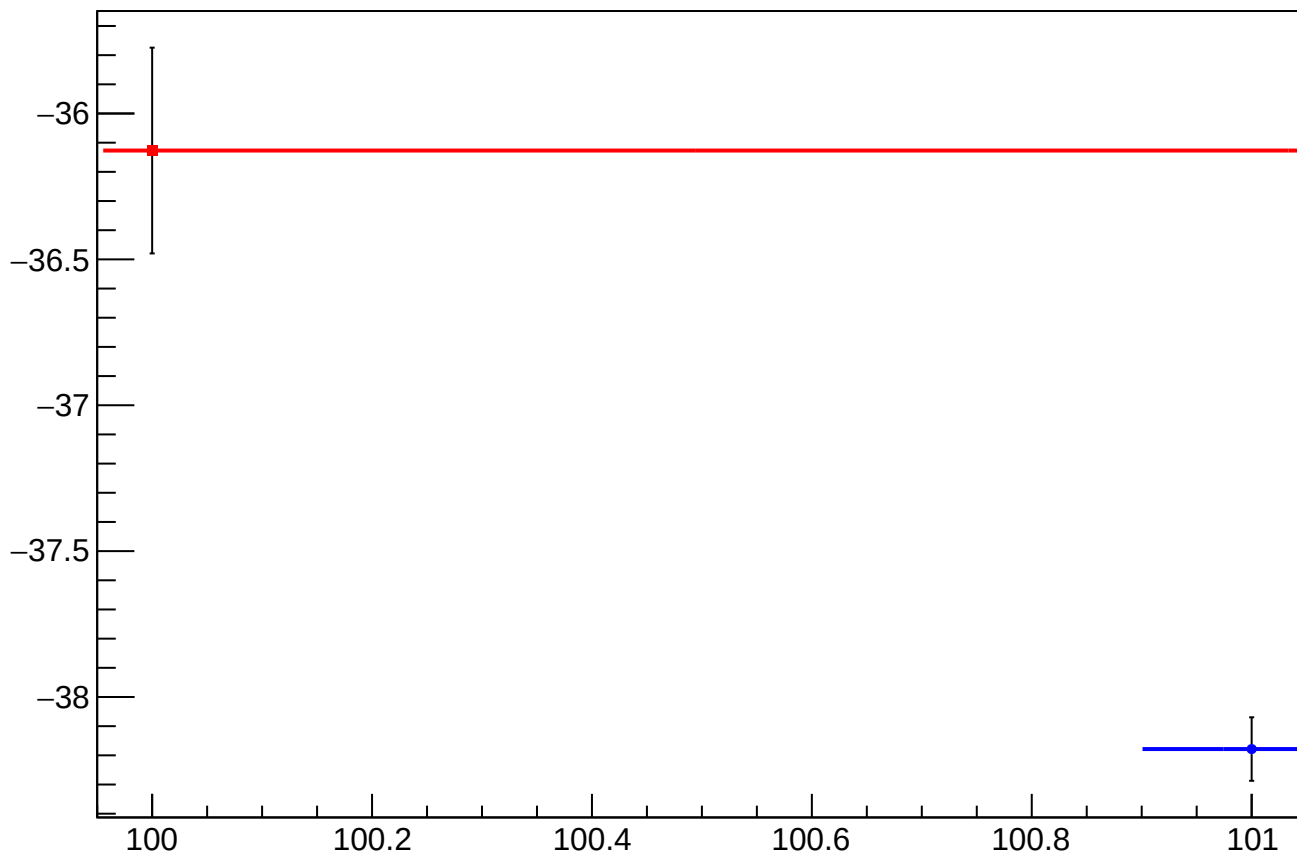
Right: 10.577 $\pm$ 2.366  $\chi^2/\text{NDF}$ : 0.0/1

In: 10.549 $\pm$ 2.433  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.577 $\pm$ 2.366  $\chi^2/\text{NDF}$ : 0.0/1

reg\_asym\_usl\_atl1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-38.178 \pm 0.109$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-36.127 \pm 0.353$   $\chi^2/\text{NDF}$ : 0.0/0

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

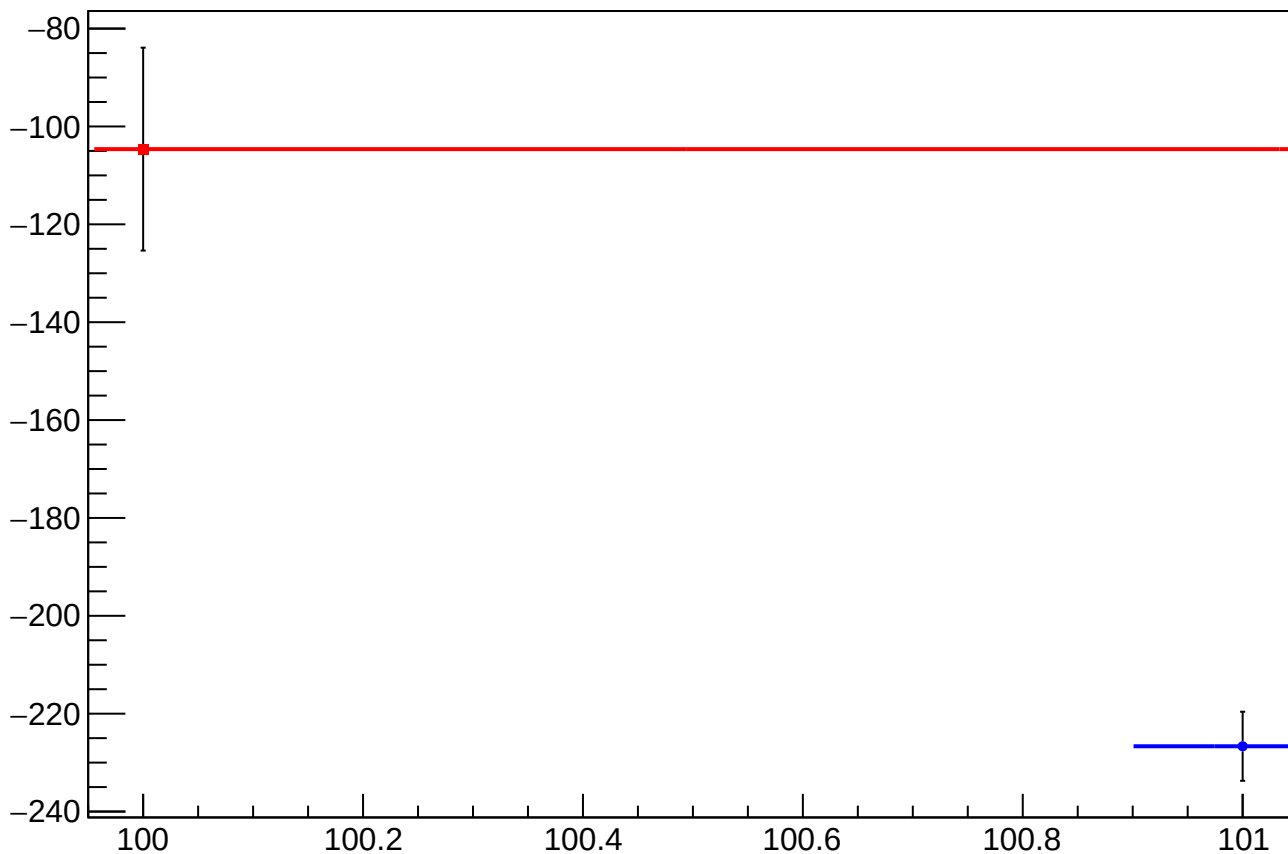
Right:  $-38.000 \pm 0.104$   $\chi^2/\text{NDF}$ : 30.9/1

In:  $-38.178 \pm 0.109$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-38.000 \pm 0.104$   $\chi^2/\text{NDF}$ : 30.9/1

reg\_asym\_usl\_atl2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -226.659+/-7.058  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -104.631+/-20.732  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

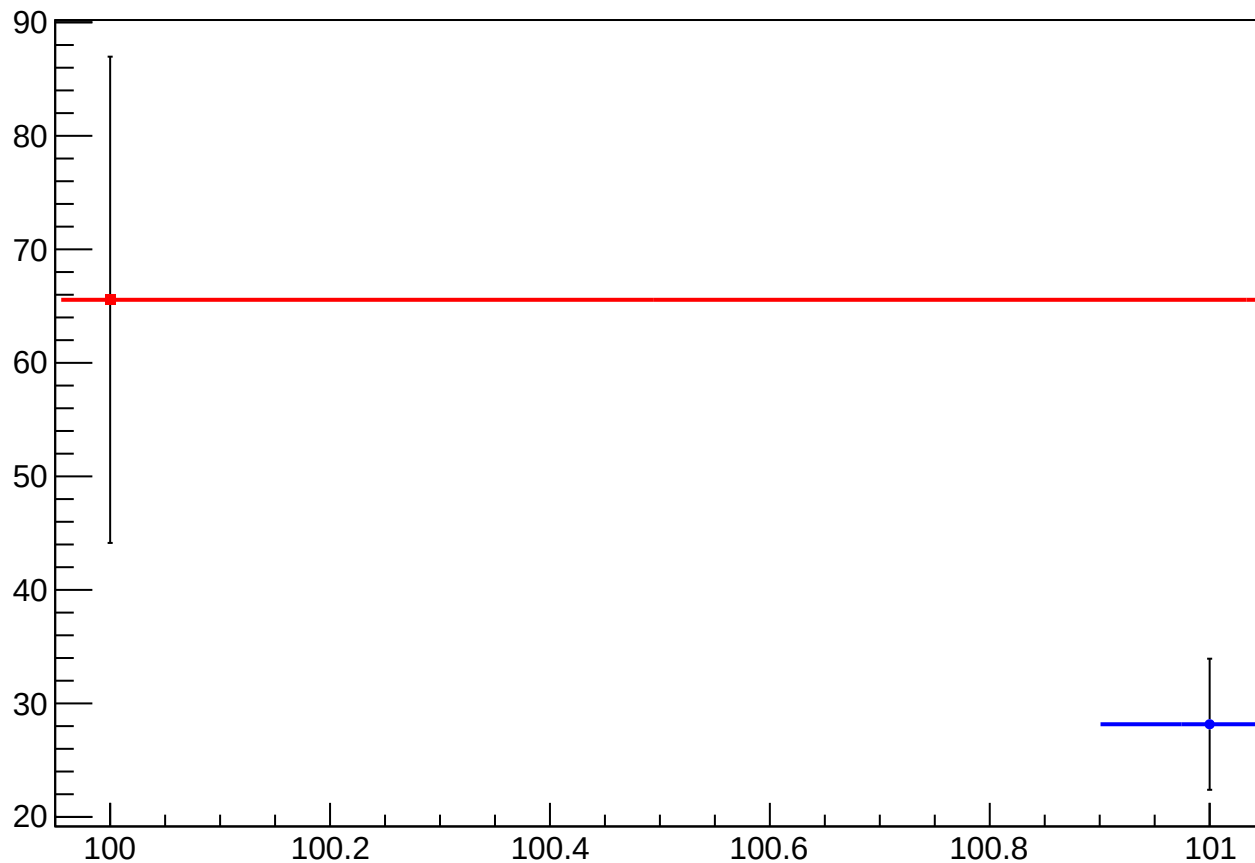
Right: -213.985+/-6.681  $\chi^2$ /NDF: 31.0/1

In: -226.659+/-7.058  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -213.985+/-6.681  $\chi^2$ /NDF: 31.0/1

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 28.165+/-5.774  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 65.555+/-21.418  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

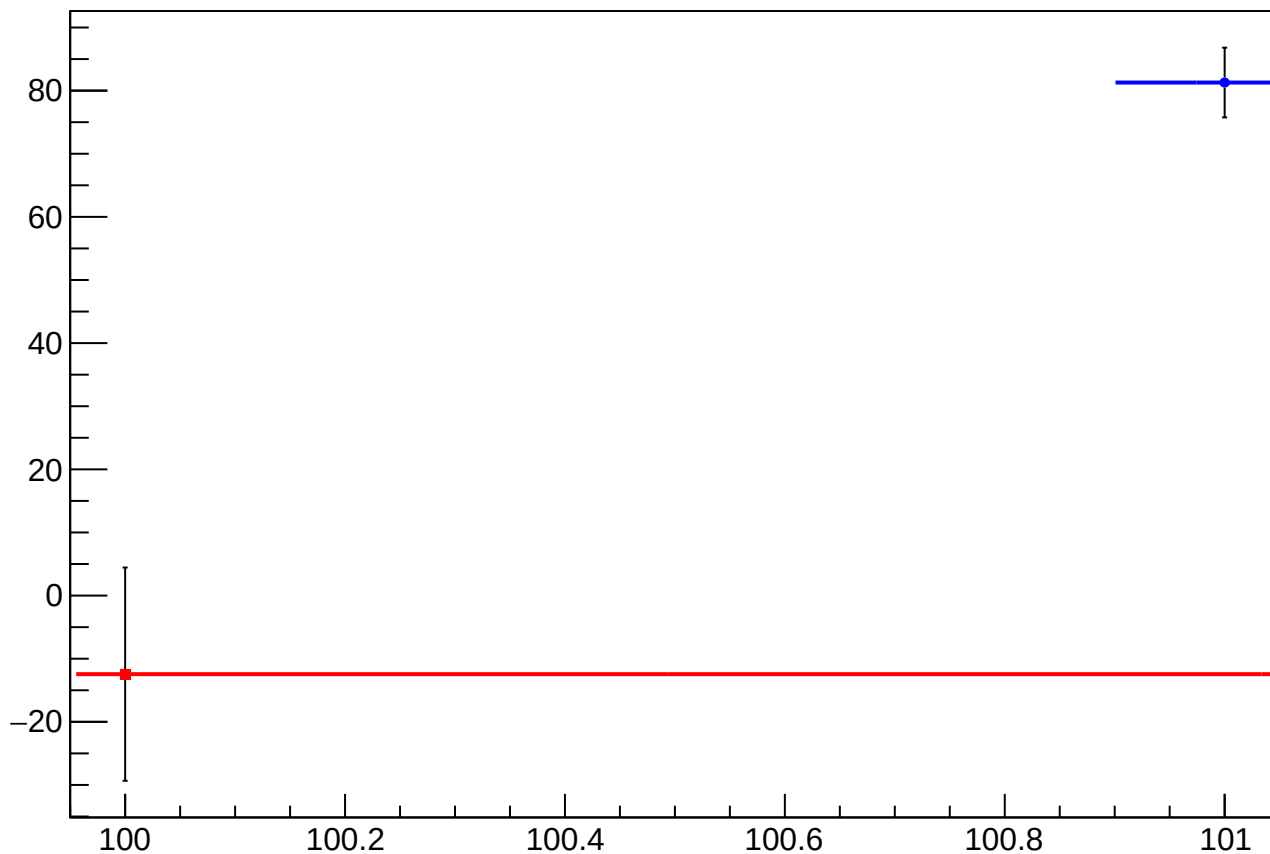
Right: 30.698+/-5.575  $\chi^2/\text{NDF}$ : 2.8/1

In: 28.165+/-5.774  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 30.698+/-5.575  $\chi^2/\text{NDF}$ : 2.8/1

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 81.281+/-5.525     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: -12.448+/-16.894     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

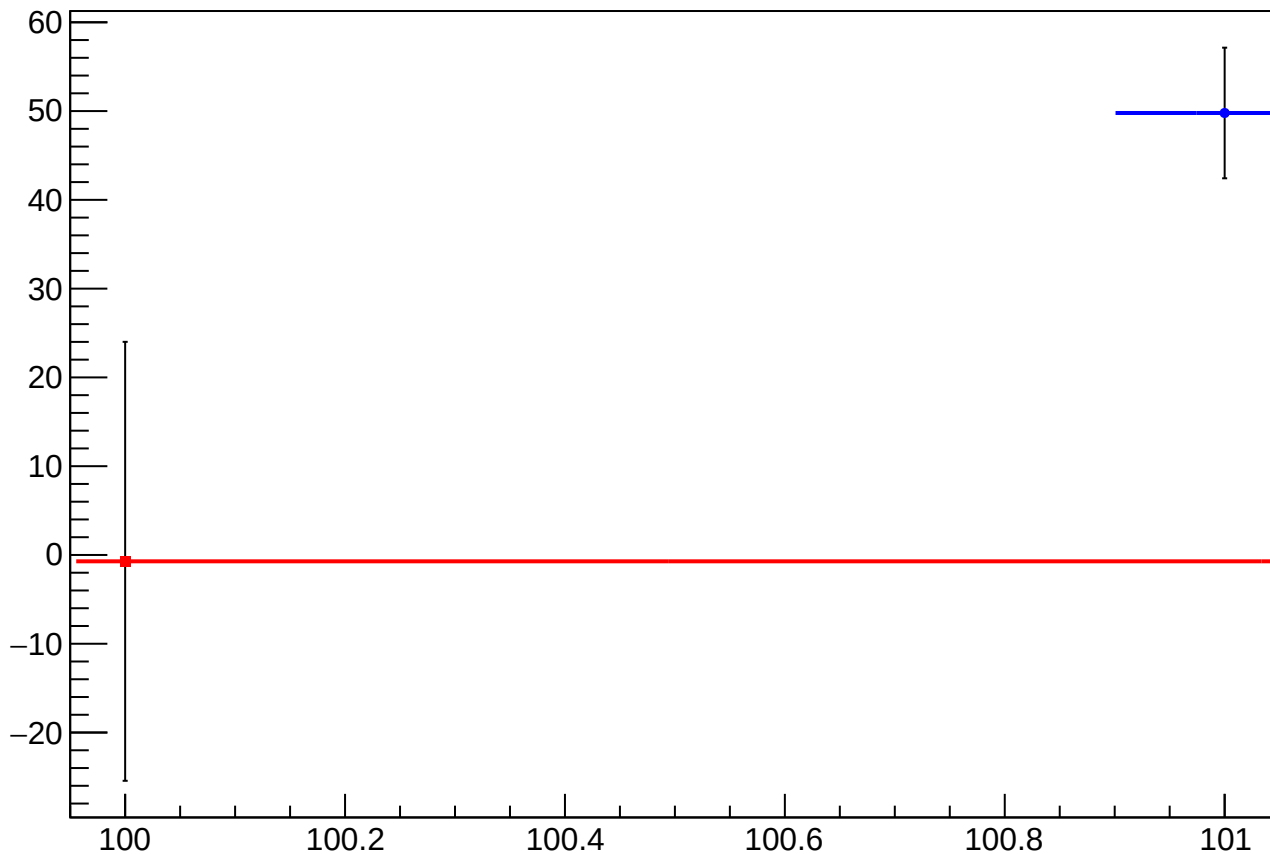
Right: 72.225+/-5.251     $\chi^2$ /NDF: 27.8/1

In: 81.281+/-5.525     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 72.225+/-5.251     $\chi^2$ /NDF: 27.8/1

reg\_asym\_usl\_atl2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 49.784+/-7.357  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.716+/-24.722  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 45.676+/-7.052  $\chi^2/\text{NDF}$ : 3.8/1

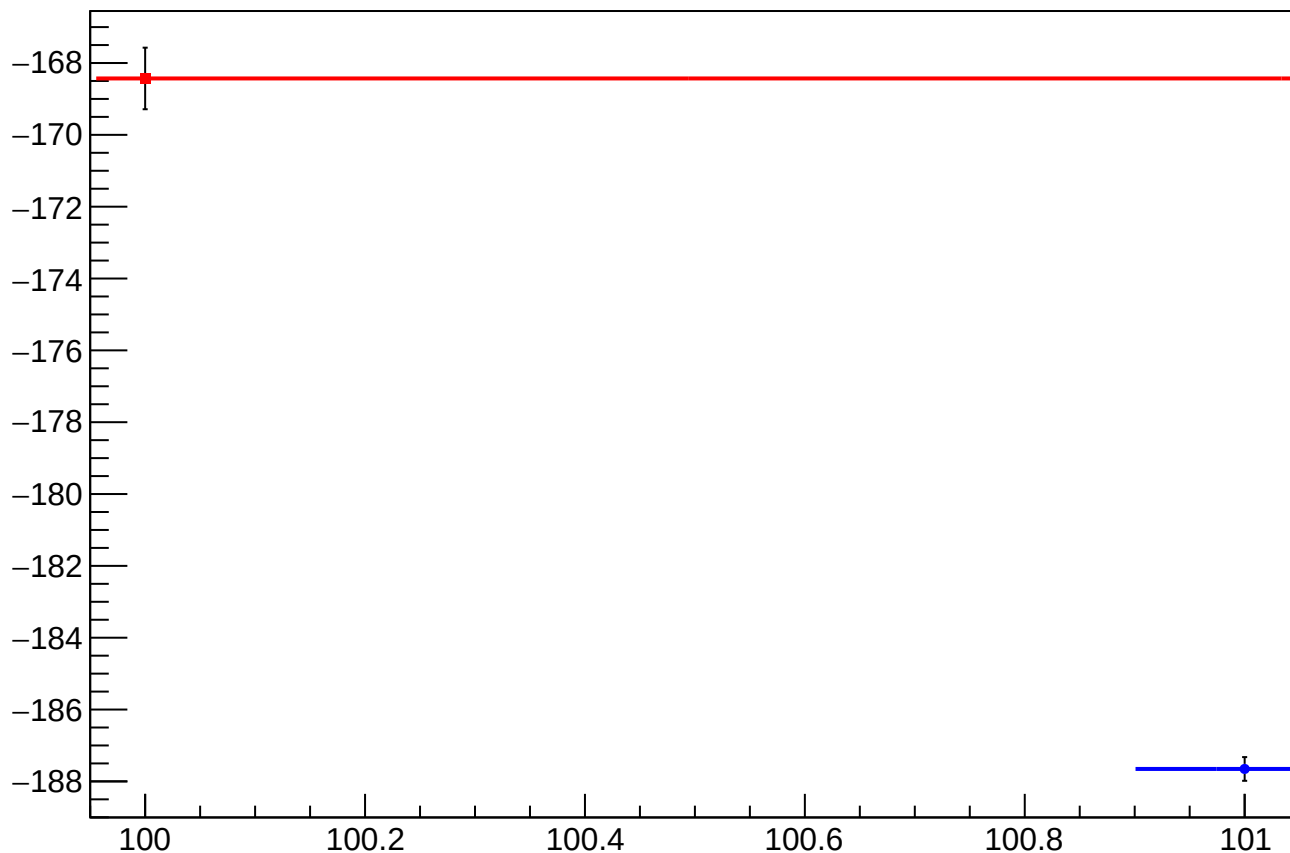
In: 49.784+/-7.357  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 45.676+/-7.052  $\chi^2/\text{NDF}$ : 3.8/1



reg\_asym\_usl\_atl2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-187.654 \pm 0.330$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-168.430 \pm 0.857$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

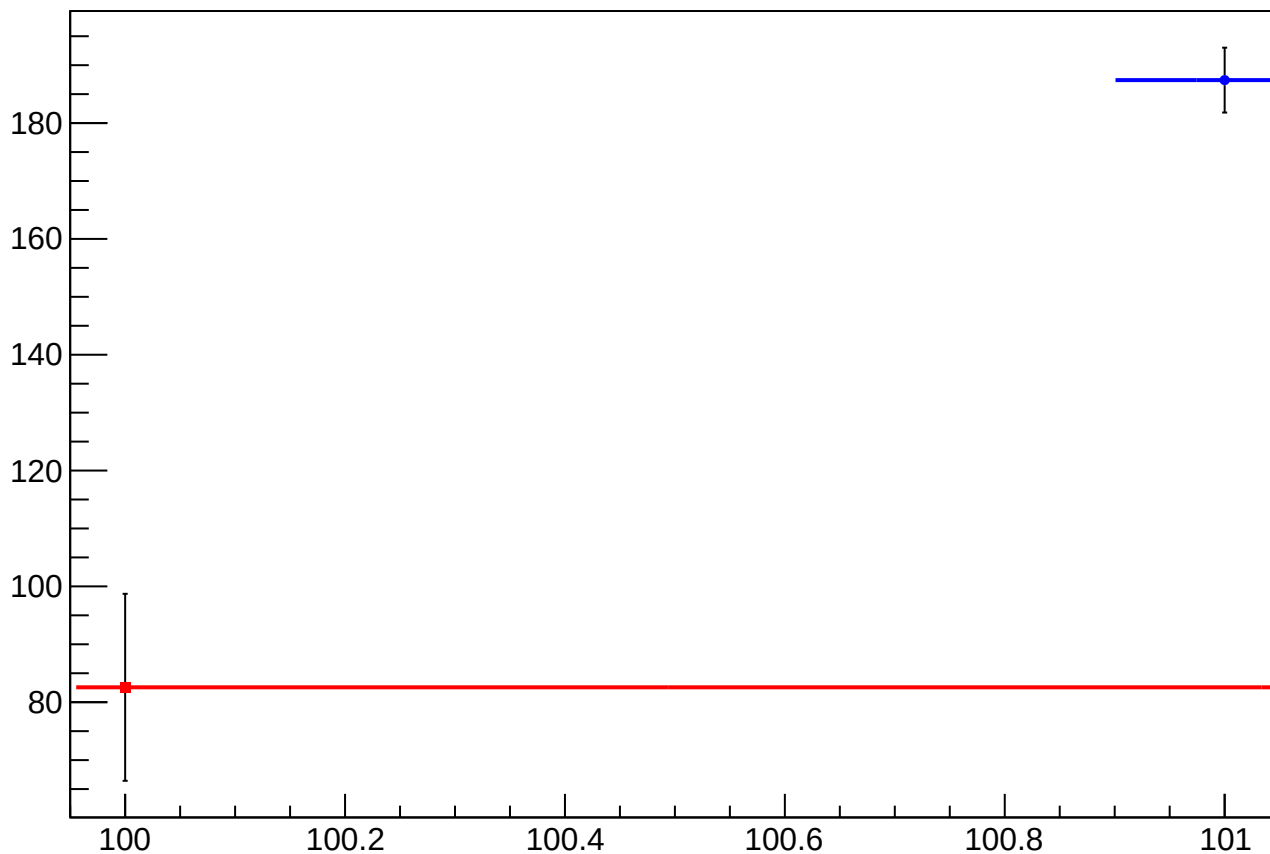
Right:  $-185.172 \pm 0.308$   $\chi^2/\text{NDF}: 438.2/1$

In:  $-187.654 \pm 0.330$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-185.172 \pm 0.308$   $\chi^2/\text{NDF}: 438.2/1$

reg\_asym\_usl\_atl2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 187.422 $\pm$ 5.601  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 82.572 $\pm$ 16.144  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

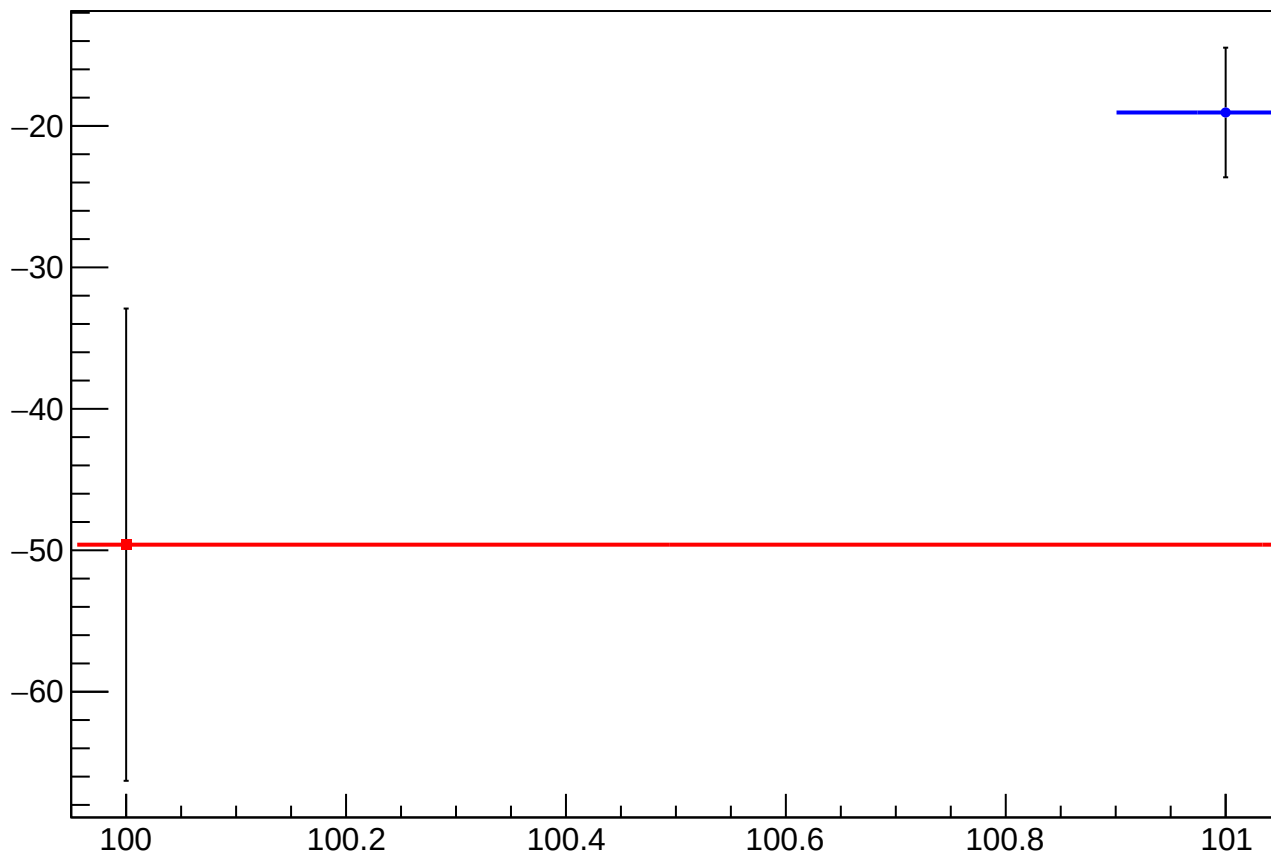
Right: 176.157 $\pm$ 5.292  $\chi^2$ /NDF: 37.6/1

In: 187.422 $\pm$ 5.601  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 176.157 $\pm$ 5.292  $\chi^2$ /NDF: 37.6/1

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -19.049 $\pm$ 4.582  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -49.603 $\pm$ 16.693  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

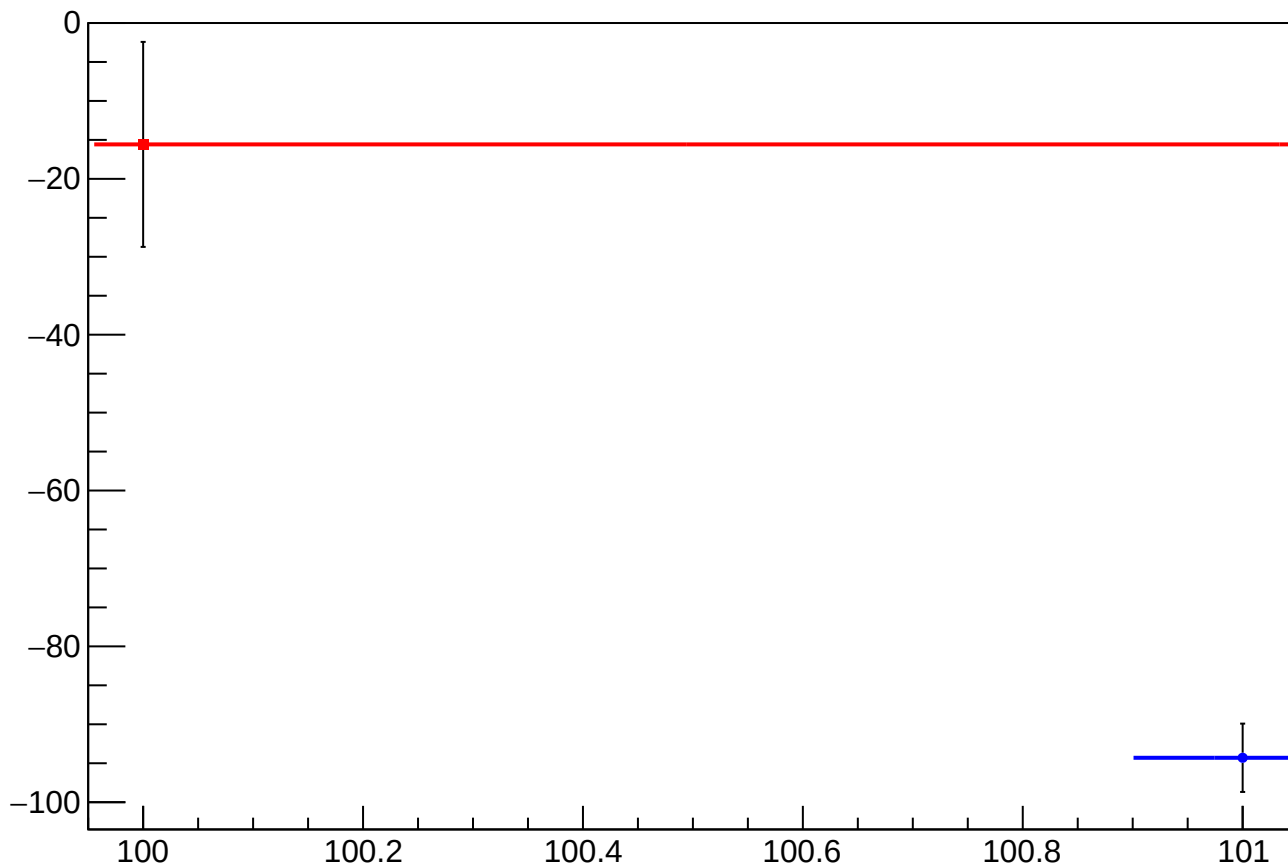
Right: -21.190 $\pm$ 4.419  $\chi^2$ /NDF: 3.1/1

In: -19.049 $\pm$ 4.582  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -21.190 $\pm$ 4.419  $\chi^2$ /NDF: 3.1/1

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -94.299 $\pm$ 4.385  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -15.578 $\pm$ 13.155  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

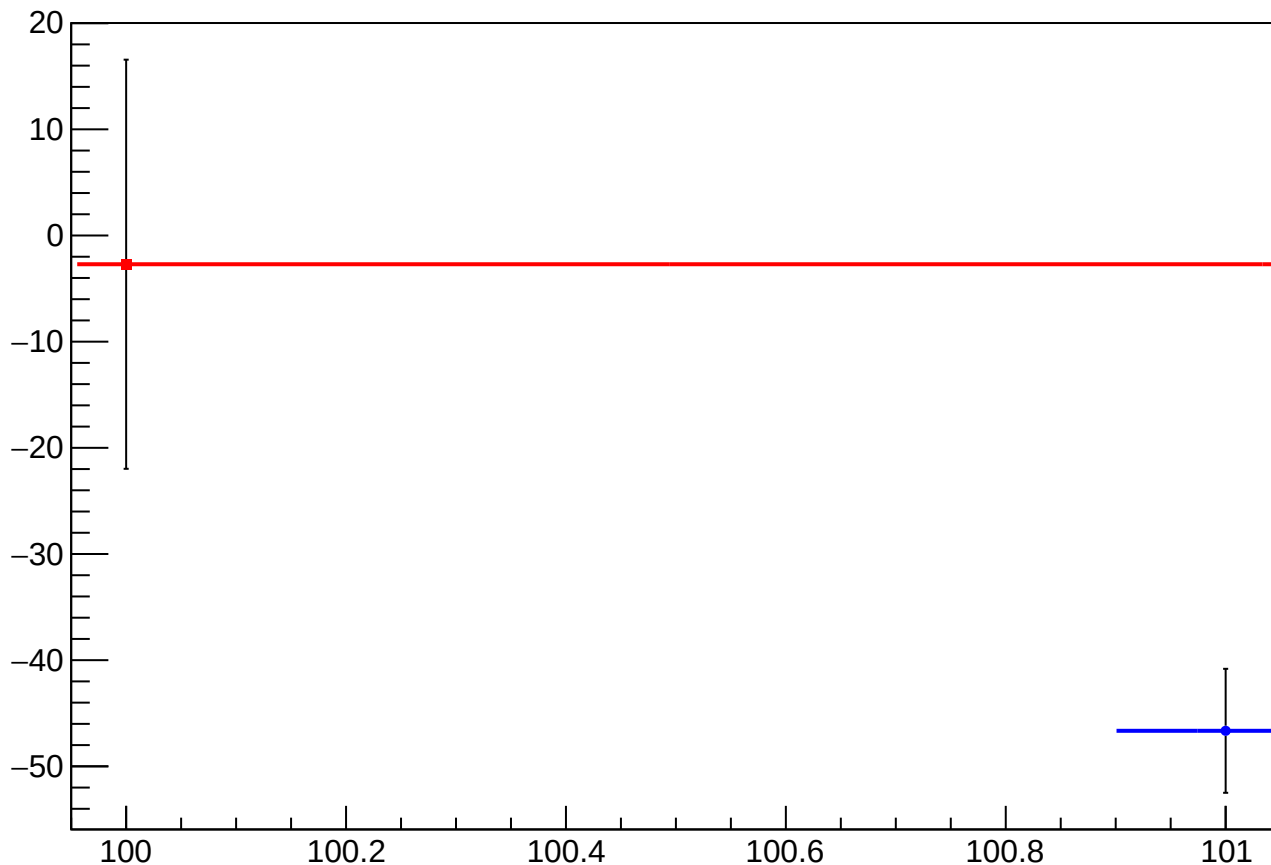
Right: -86.428 $\pm$ 4.160  $\chi^2$ /NDF: 32.2/1

In: -94.299 $\pm$ 4.385  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -86.428 $\pm$ 4.160  $\chi^2$ /NDF: 32.2/1

reg\_asym\_usl\_atl2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -46.654 $\pm$ 5.839  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2.707 $\pm$ 19.269  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

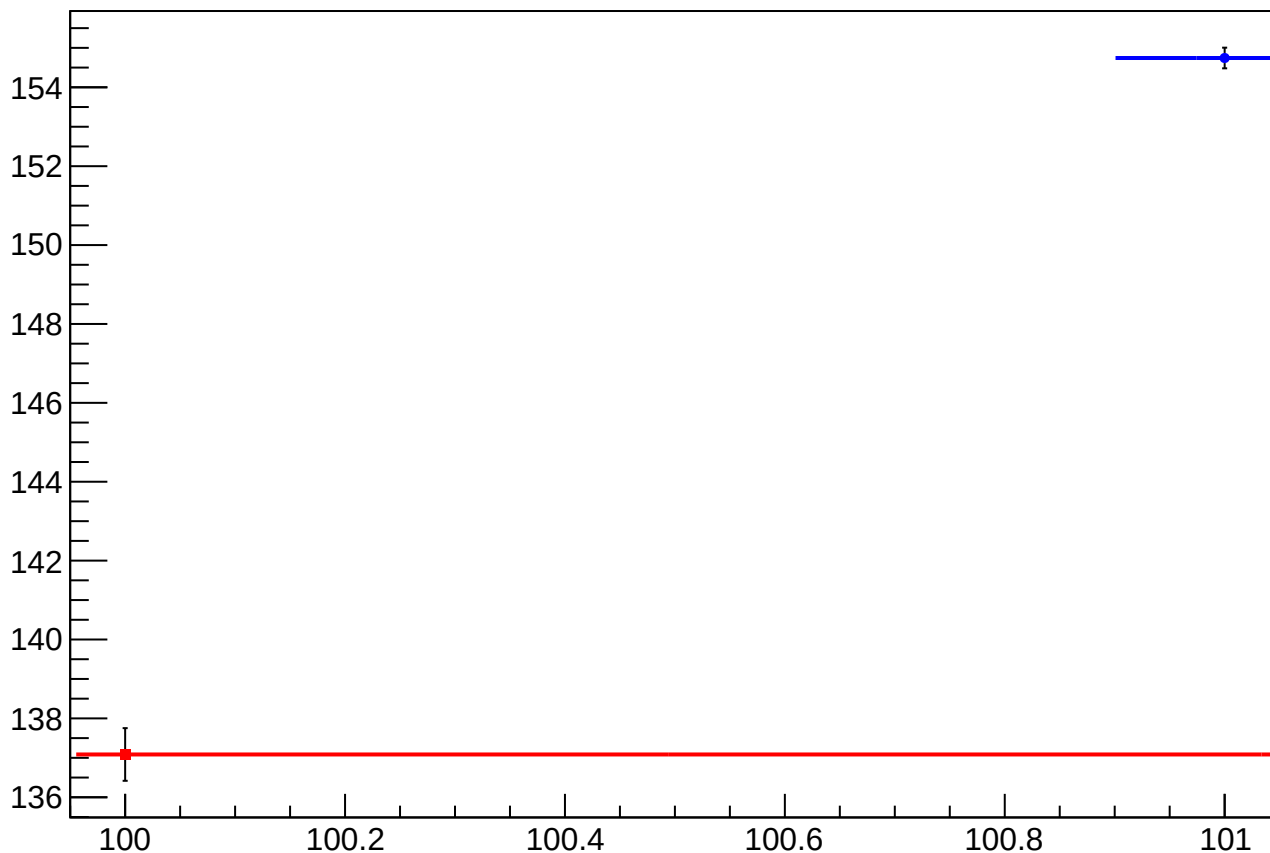
Right: -42.958 $\pm$ 5.588  $\chi^2$ /NDF: 4.8/1

In: -46.654 $\pm$ 5.839  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -42.958 $\pm$ 5.588  $\chi^2$ /NDF: 4.8/1

reg\_asym\_usl\_atl2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 154.743 $\pm$ 0.262  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 137.085 $\pm$ 0.668  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

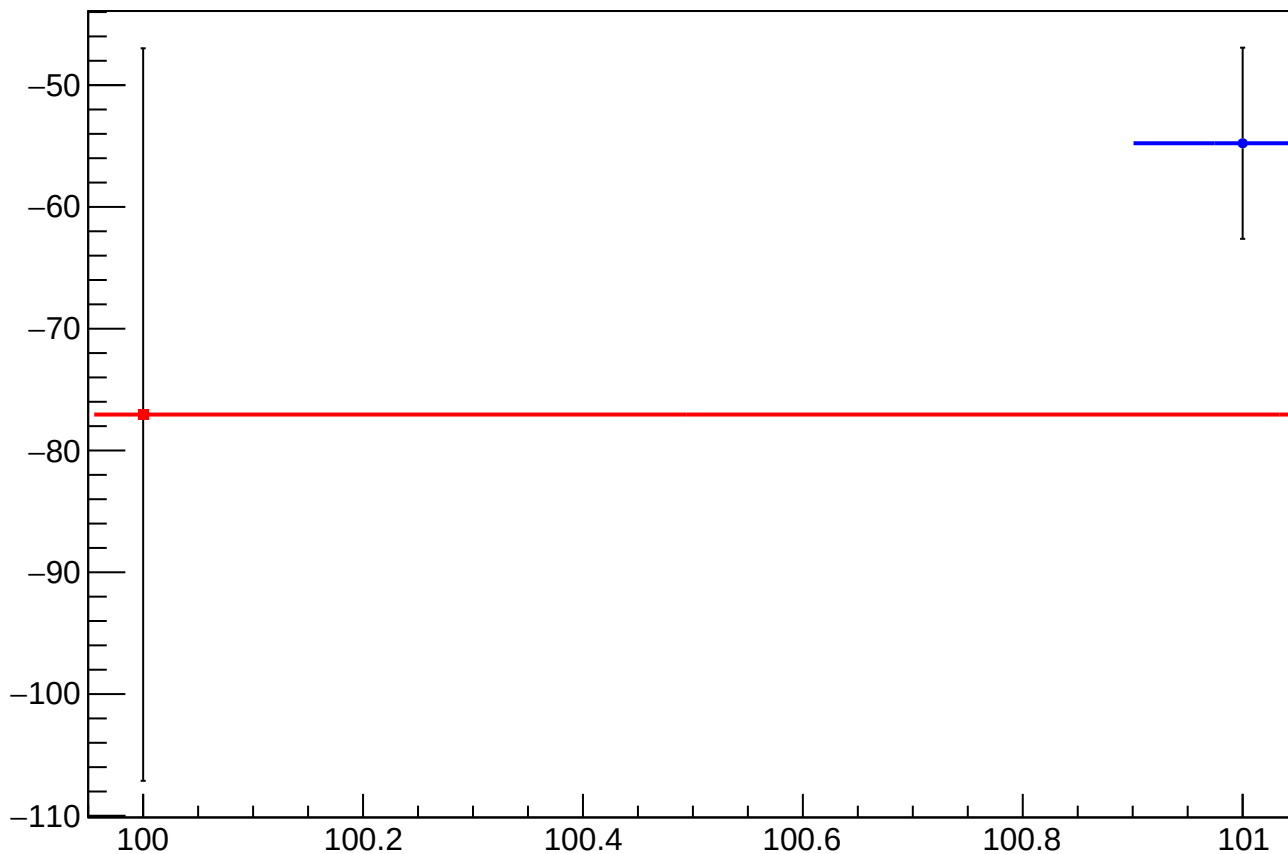
Right: 152.387 $\pm$ 0.244  $\chi^2$ /NDF: 606.3/1

In: 154.743 $\pm$ 0.262  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 152.387 $\pm$ 0.244  $\chi^2$ /NDF: 606.3/1

reg\_asym\_usr\_atr1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -54.772 $\pm$ 7.848  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -77.048 $\pm$ 30.073  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

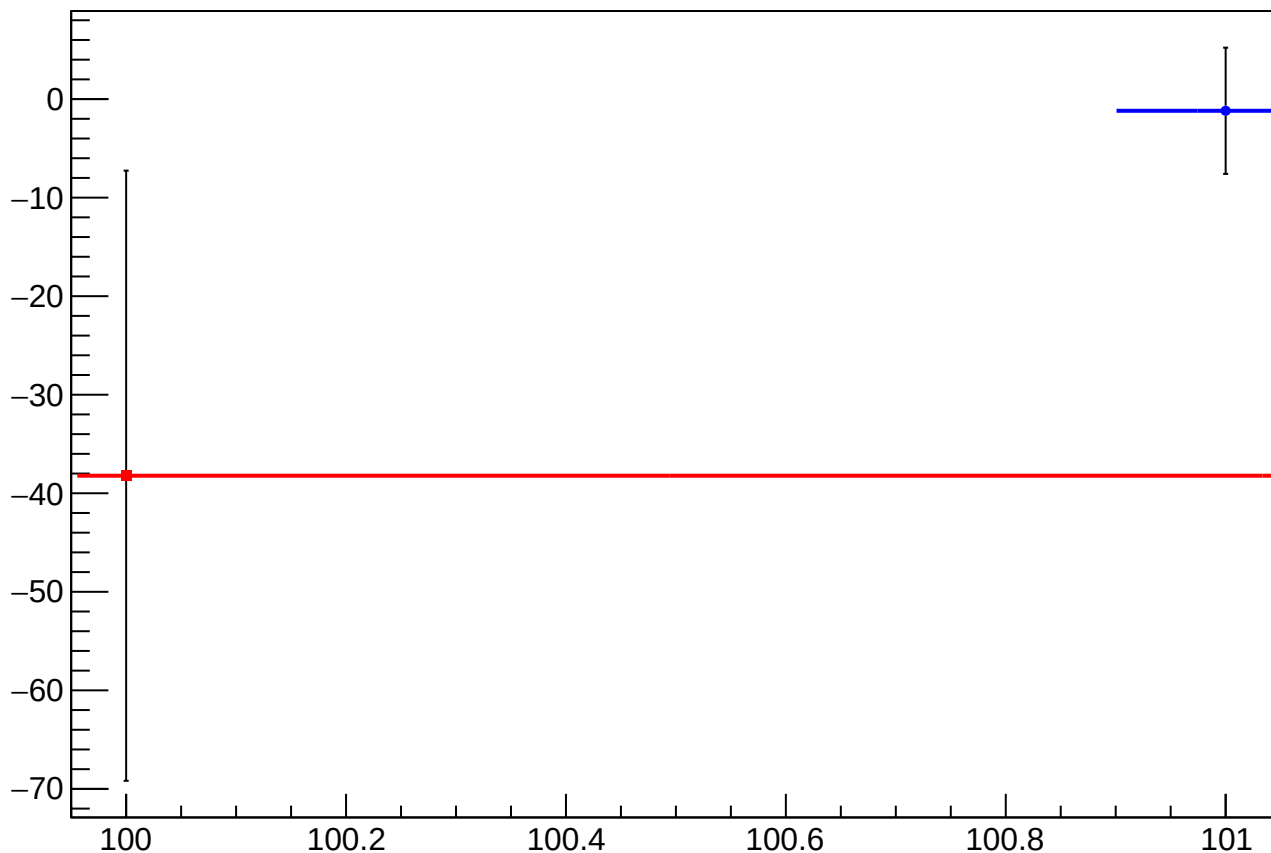
Right: -56.192 $\pm$ 7.594  $\chi^2$ /NDF: 0.5/1

In: -54.772 $\pm$ 7.848  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -56.192 $\pm$ 7.594  $\chi^2$ /NDF: 0.5/1

reg\_asym\_usr\_atr1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -1.186+/-6.405  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -38.219+/-30.960  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -2.706+/-6.272  $\chi^2/\text{NDF}$ : 1.4/1

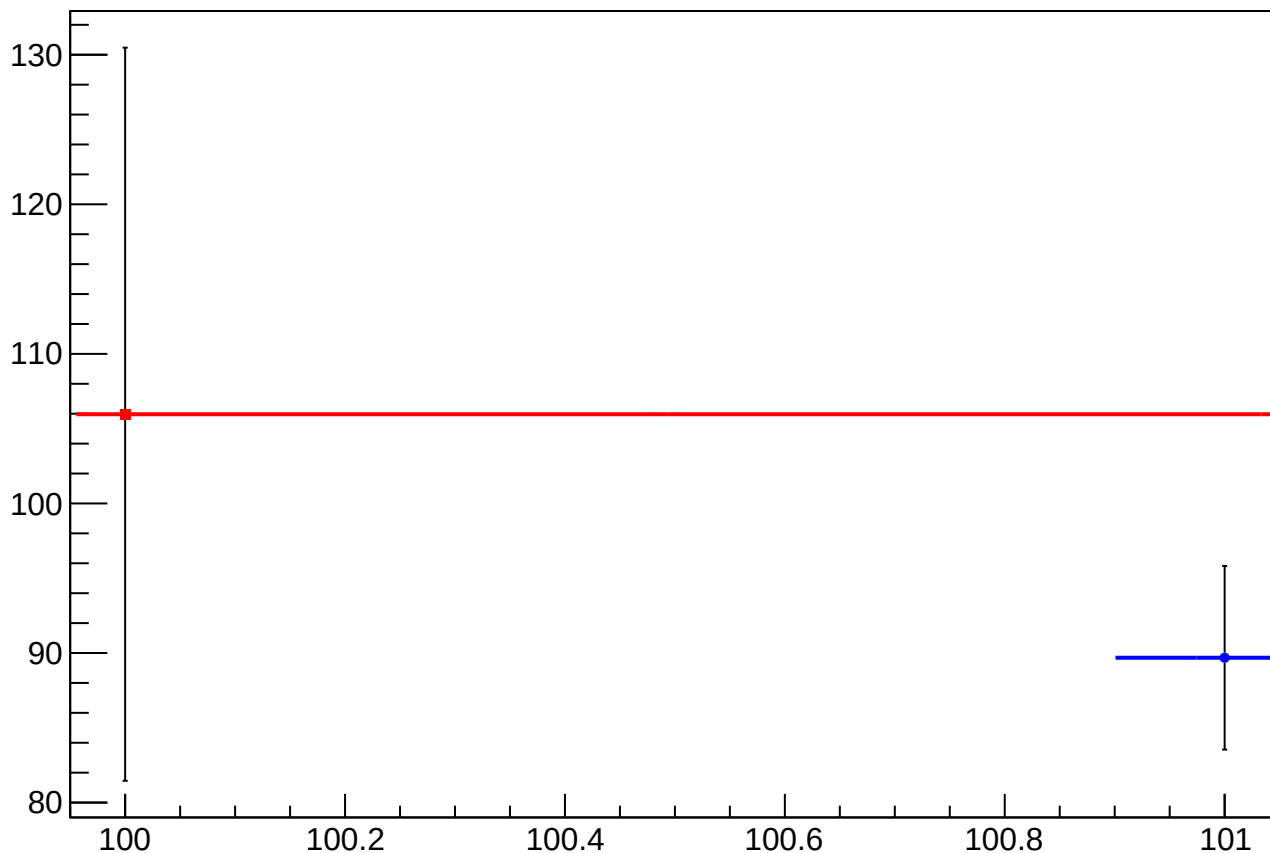
In: -1.186+/-6.405  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.706+/-6.272  $\chi^2/\text{NDF}$ : 1.4/1



reg\_asym\_usr\_atr1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 89.684+/-6.139  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 105.965+/-24.508  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

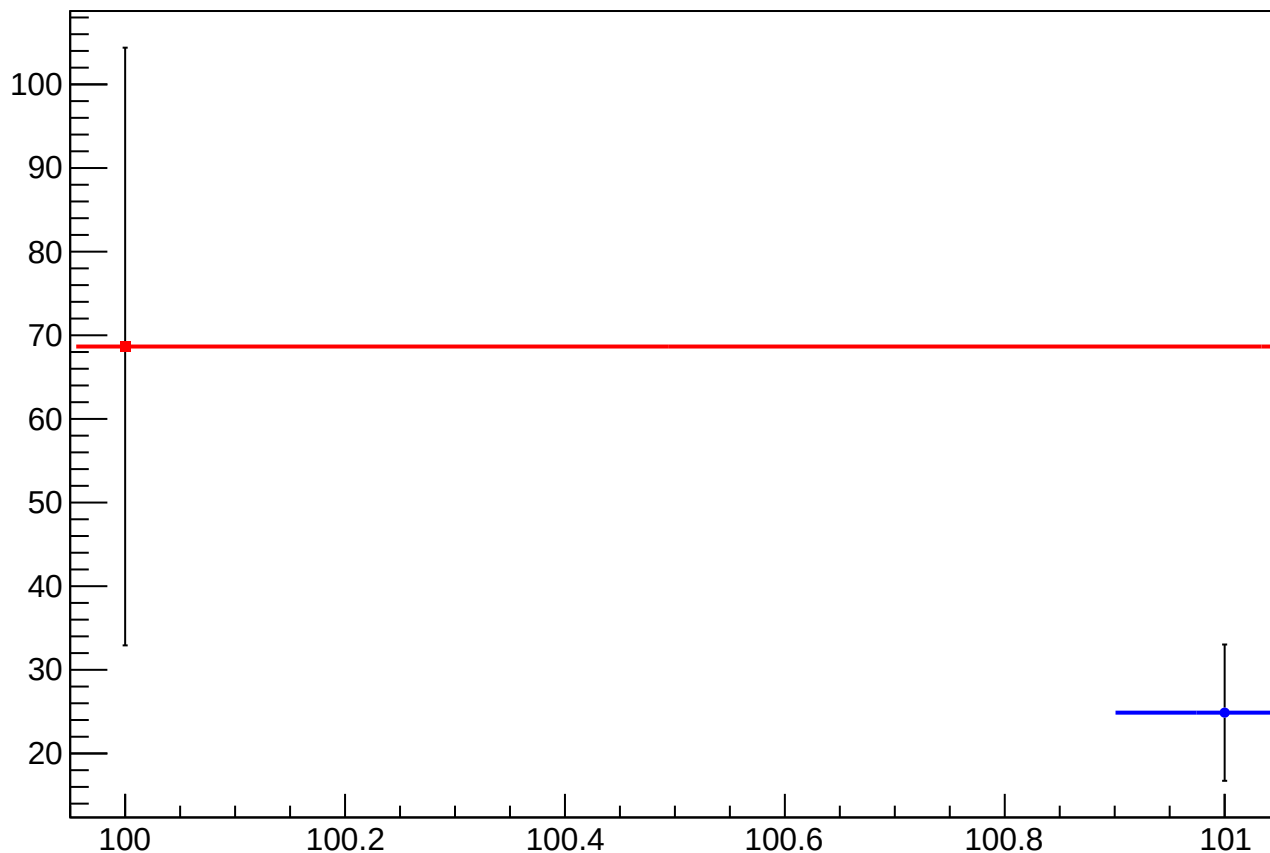
Right: 90.645+/-5.955  $\chi^2/\text{NDF}$ : 0.4/1

In: 89.684+/-6.139  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 90.645+/-5.955  $\chi^2/\text{NDF}$ : 0.4/1

reg\_asym\_usr\_atr1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 24.879+/-8.148  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 68.656+/-35.734  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

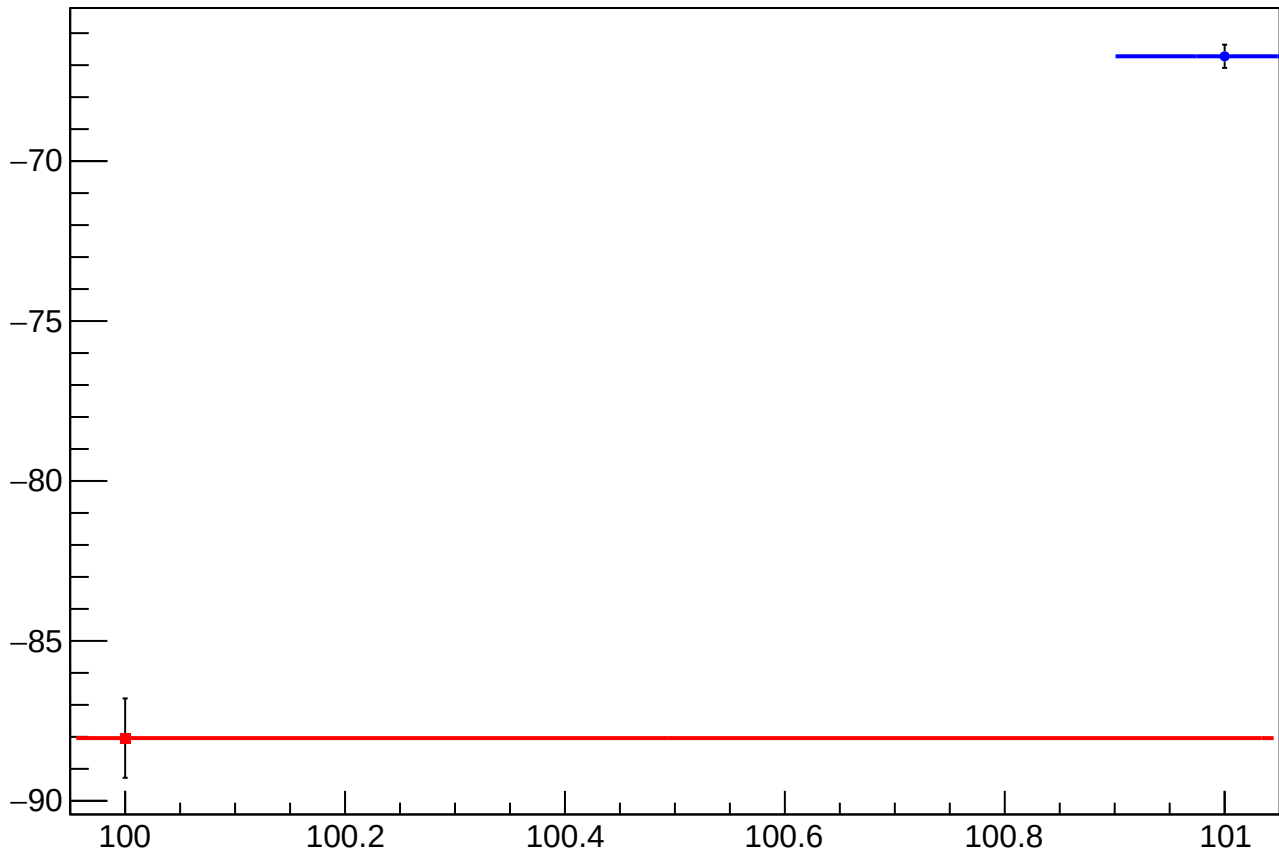
Right: 27.043+/-7.944  $\chi^2/\text{NDF}$ : 1.4/1

In: 24.879+/-8.148  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 27.043+/-7.944  $\chi^2/\text{NDF}$ : 1.4/1

reg\_asym\_usr\_atr1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -66.723 $\pm$ 0.363  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -88.039 $\pm$ 1.241  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

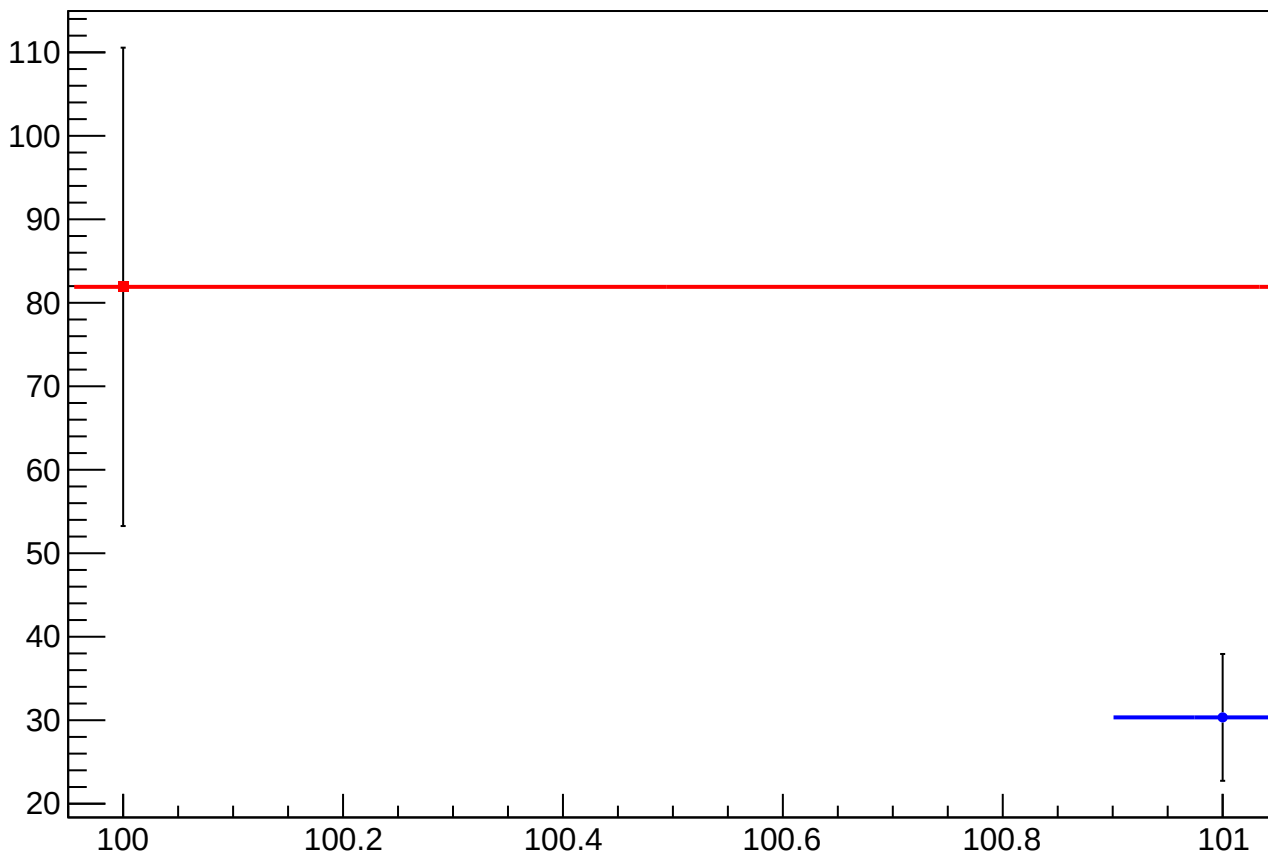
Right: -68.407 $\pm$ 0.349  $\chi^2$ /NDF: 271.7/1

In: -66.723 $\pm$ 0.363  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -68.407 $\pm$ 0.349  $\chi^2$ /NDF: 271.7/1

reg\_asym\_usr\_atr1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 30.340+/-7.596  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 81.910+/-28.650  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

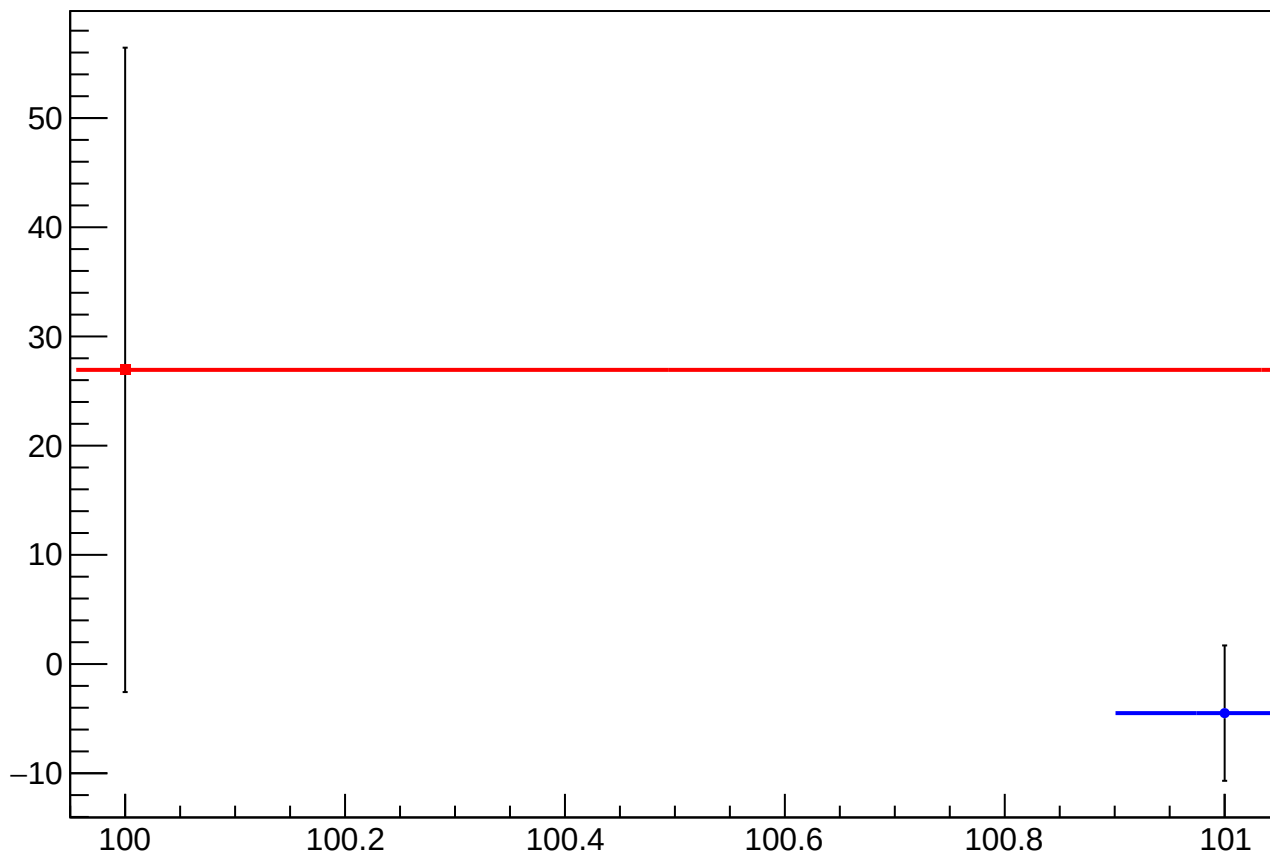
Right: 33.727+/-7.342  $\chi^2$ /NDF: 3.0/1

In: 30.340+/-7.596  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 33.727+/-7.342  $\chi^2$ /NDF: 3.0/1

reg\_asym\_usr\_atr1\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -4.494+/-6.198  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 26.940+/-29.506  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

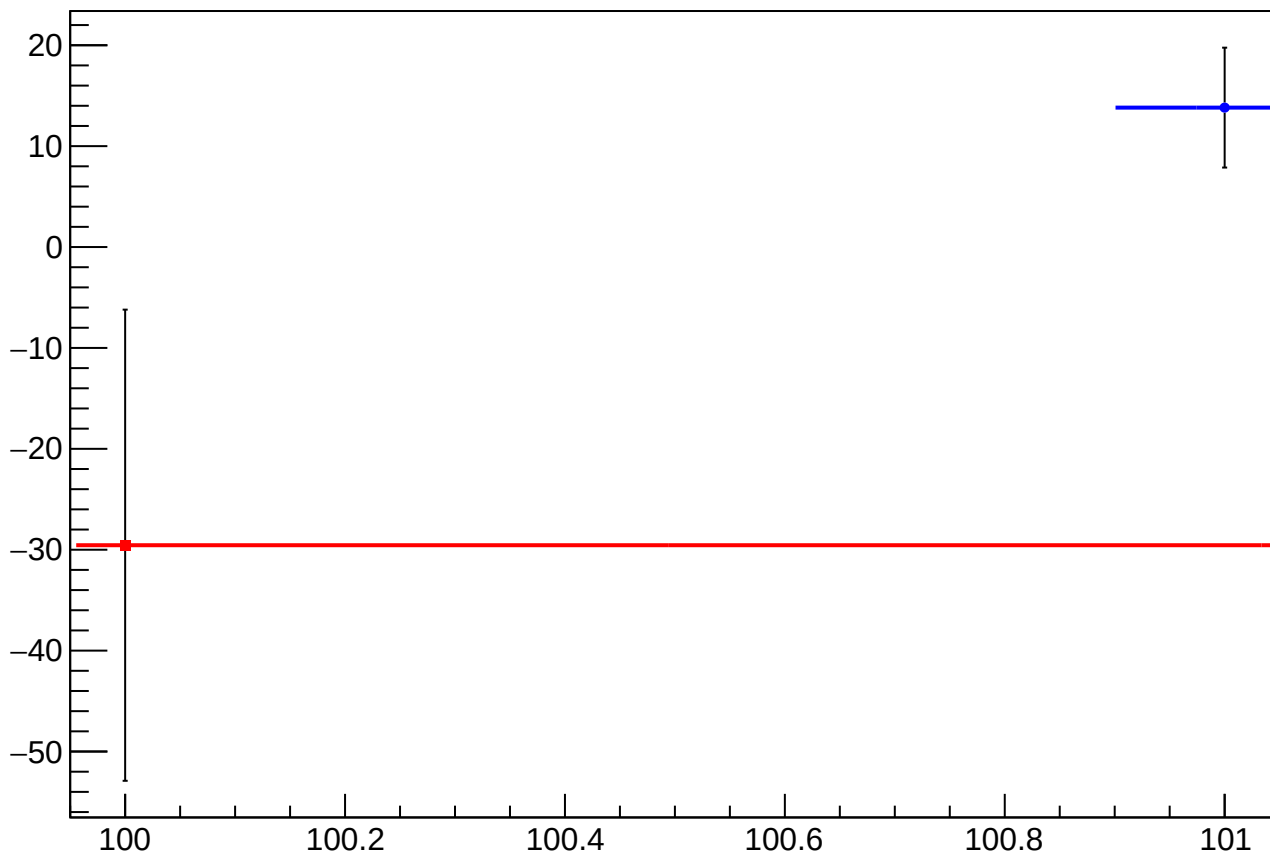
Right: -3.165+/-6.065  $\chi^2/\text{NDF}$ : 1.1/1

In: -4.494+/-6.198  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.165+/-6.065  $\chi^2/\text{NDF}$ : 1.1/1

reg\_asym\_usr\_atr1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 13.818 $\pm$ 5.941  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -29.553 $\pm$ 23.348  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

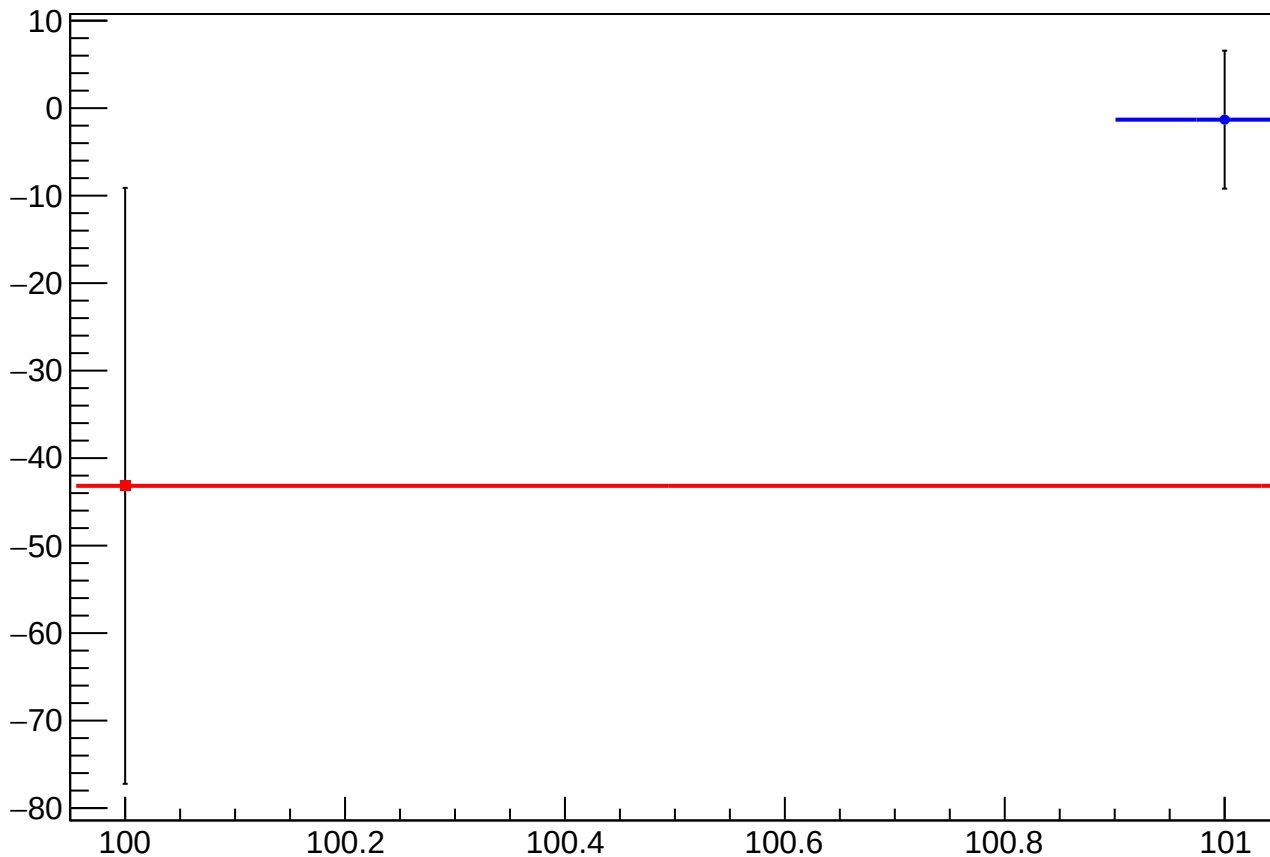
Right: 11.180 $\pm$ 5.758  $\chi^2$ /NDF: 3.2/1

In: 13.818 $\pm$ 5.941  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 11.180 $\pm$ 5.758  $\chi^2$ /NDF: 3.2/1

reg\_asym\_usr\_atr1\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -1.314+/-7.885  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -43.168+/-34.056  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

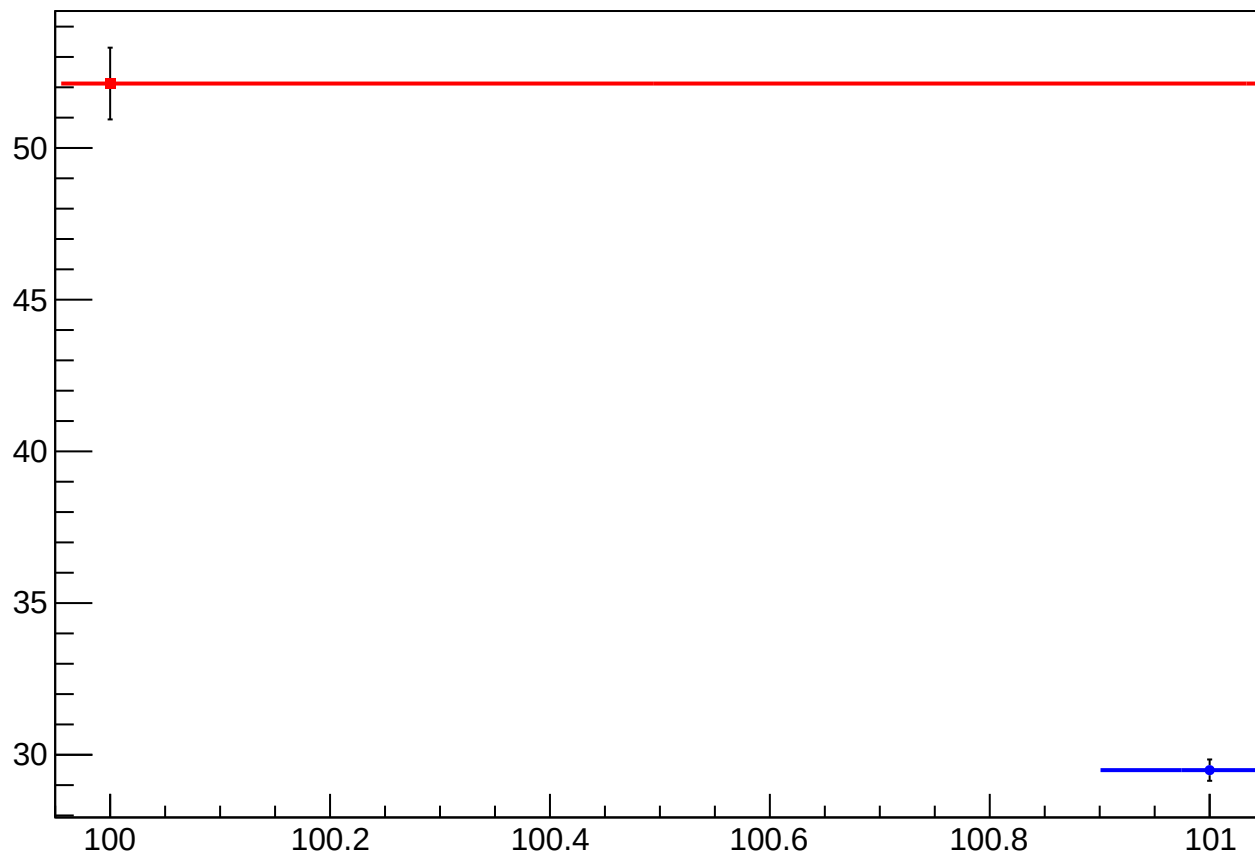
Right: -3.444+/-7.681  $\chi^2/\text{NDF}$ : 1.4/1

In: -1.314+/-7.885  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.444+/-7.681  $\chi^2/\text{NDF}$ : 1.4/1

reg\_asym\_usr\_atr1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 29.494 $\pm$ 0.352  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 52.124 $\pm$ 1.182  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 31.332 $\pm$ 0.337  $\chi^2$ /NDF: 336.6/1

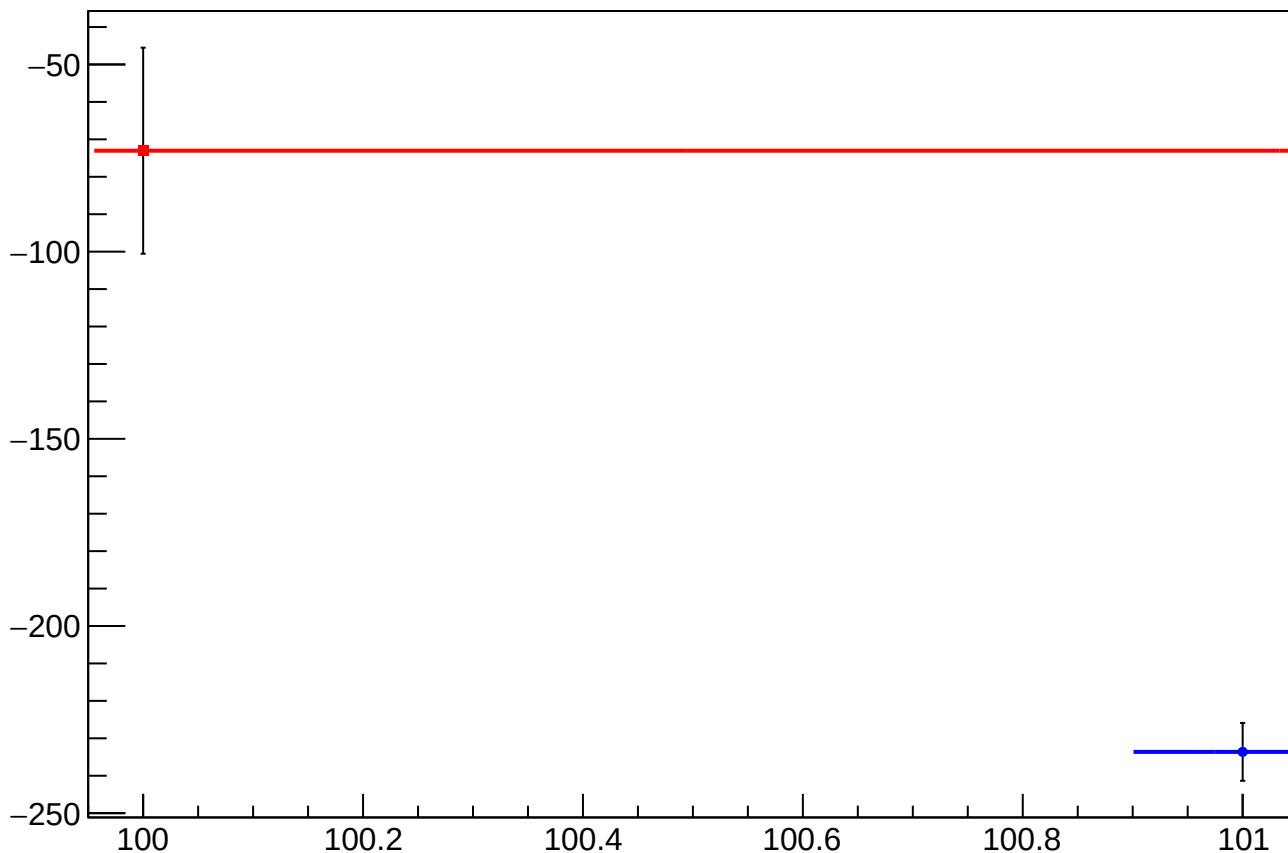
In: 29.494 $\pm$ 0.352  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 31.332 $\pm$ 0.337  $\chi^2$ /NDF: 336.6/1



reg\_asym\_usr\_atr2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -233.626+/-7.724  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -73.035+/-27.524  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

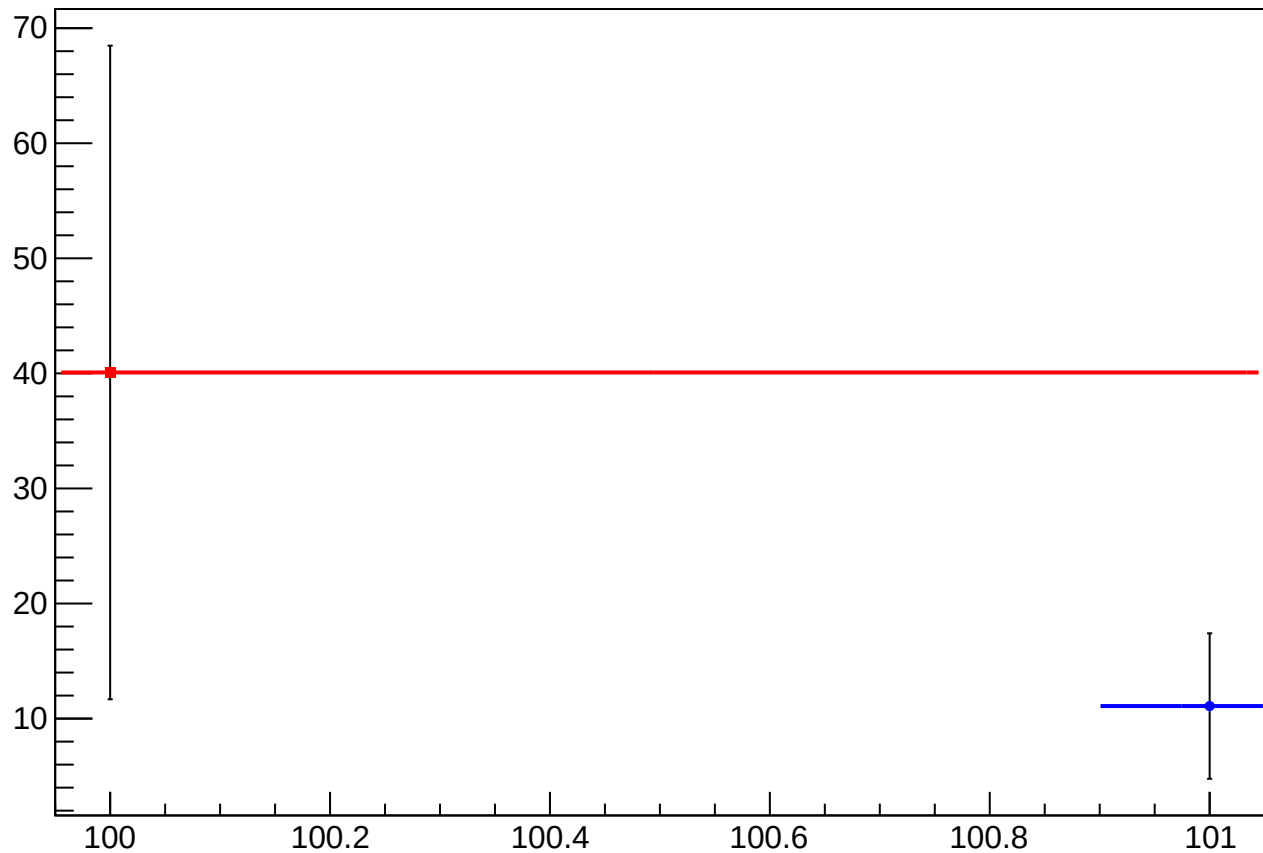
Right: -221.903+/-7.437  $\chi^2/\text{NDF}$ : 31.6/1

In: -233.626+/-7.724  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -221.903+/-7.437  $\chi^2/\text{NDF}$ : 31.6/1

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 11.090+/-6.322  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 40.081+/-28.399  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

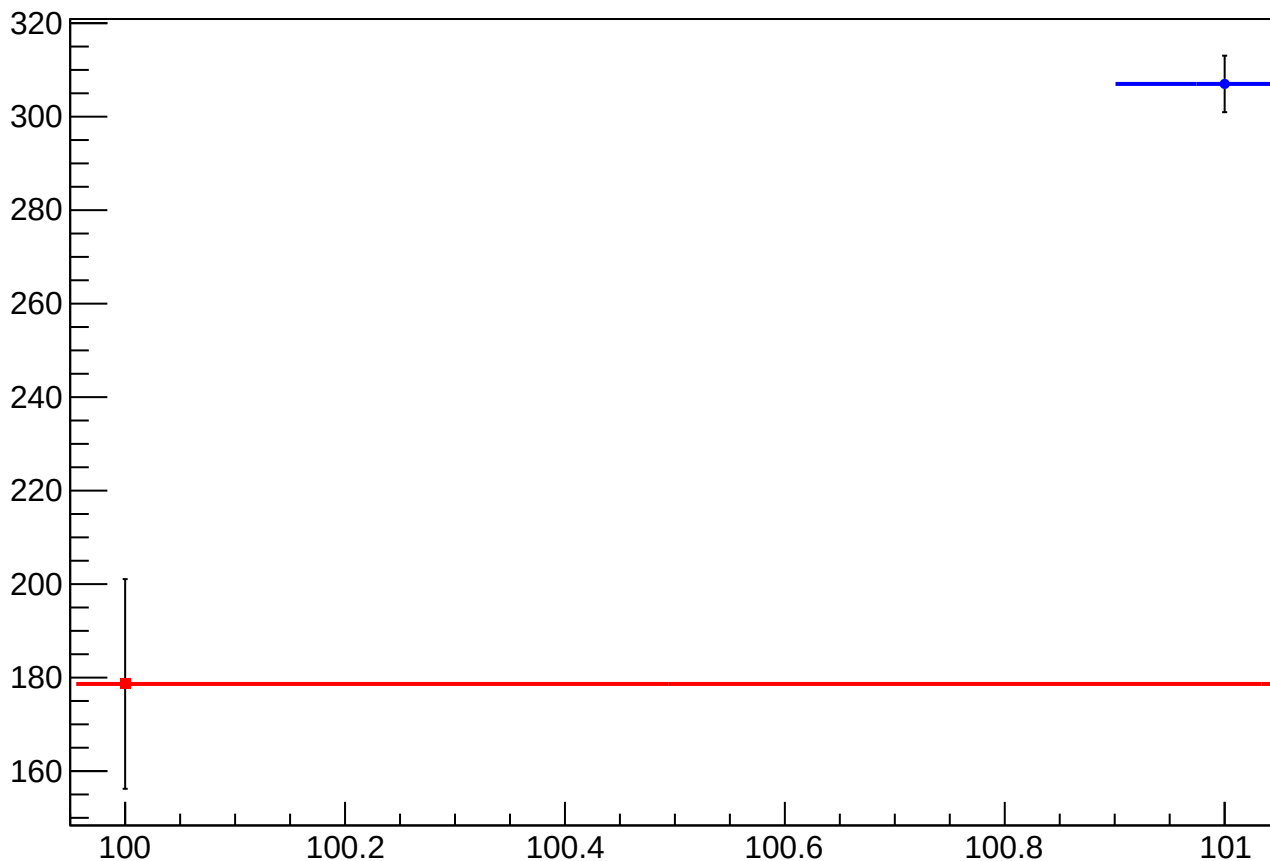
Right: 12.459+/-6.171  $\chi^2/\text{NDF}$ : 1.0/1

In: 11.090+/-6.322  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.459+/-6.171  $\chi^2/\text{NDF}$ : 1.0/1

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 307.003 $\pm$ 6.045  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 178.643 $\pm$ 22.429  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

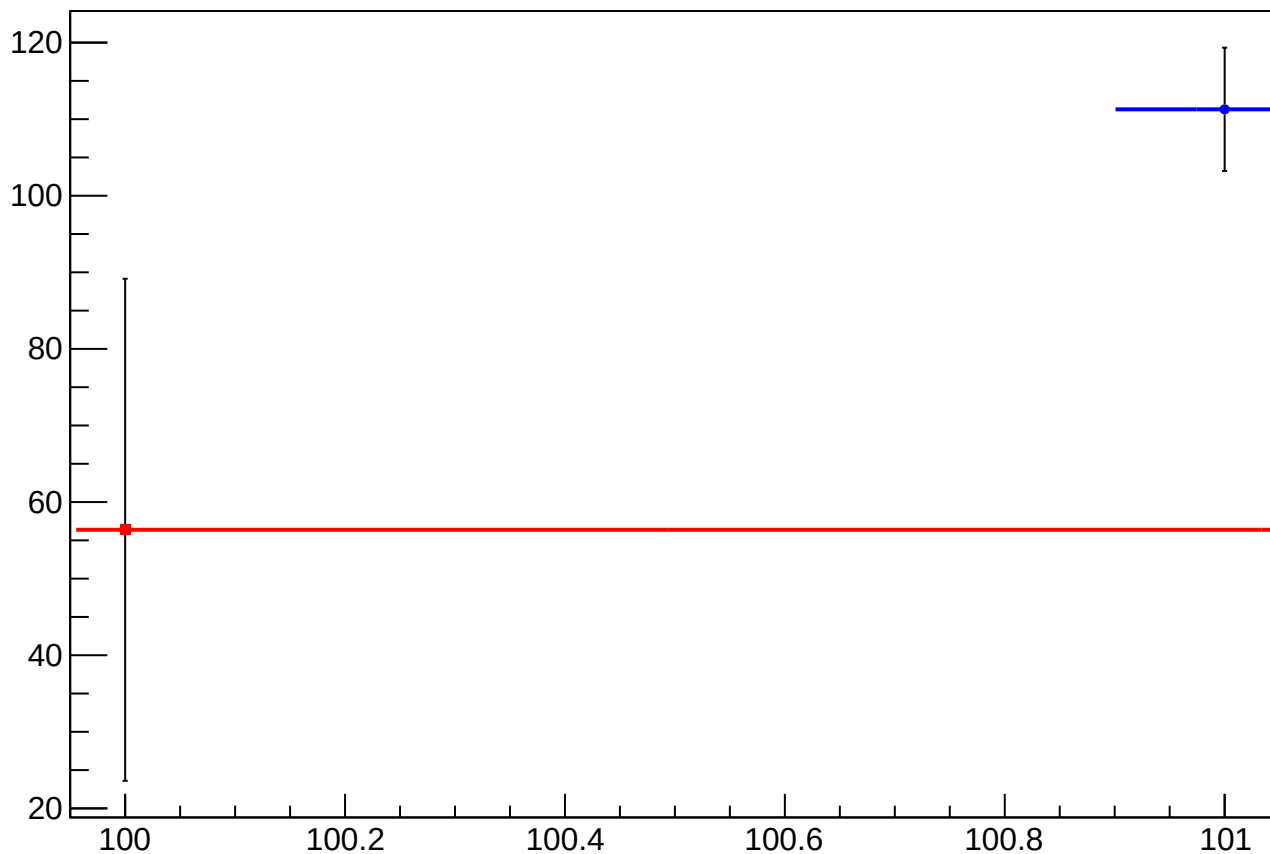
Right: 298.310 $\pm$ 5.837  $\chi^2$ /NDF: 30.5/1

In: 307.003 $\pm$ 6.045  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 298.310 $\pm$ 5.837  $\chi^2$ /NDF: 30.5/1

reg\_asym\_usr\_atr2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 111.284 $\pm$ 8.052  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 56.382 $\pm$ 32.779  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

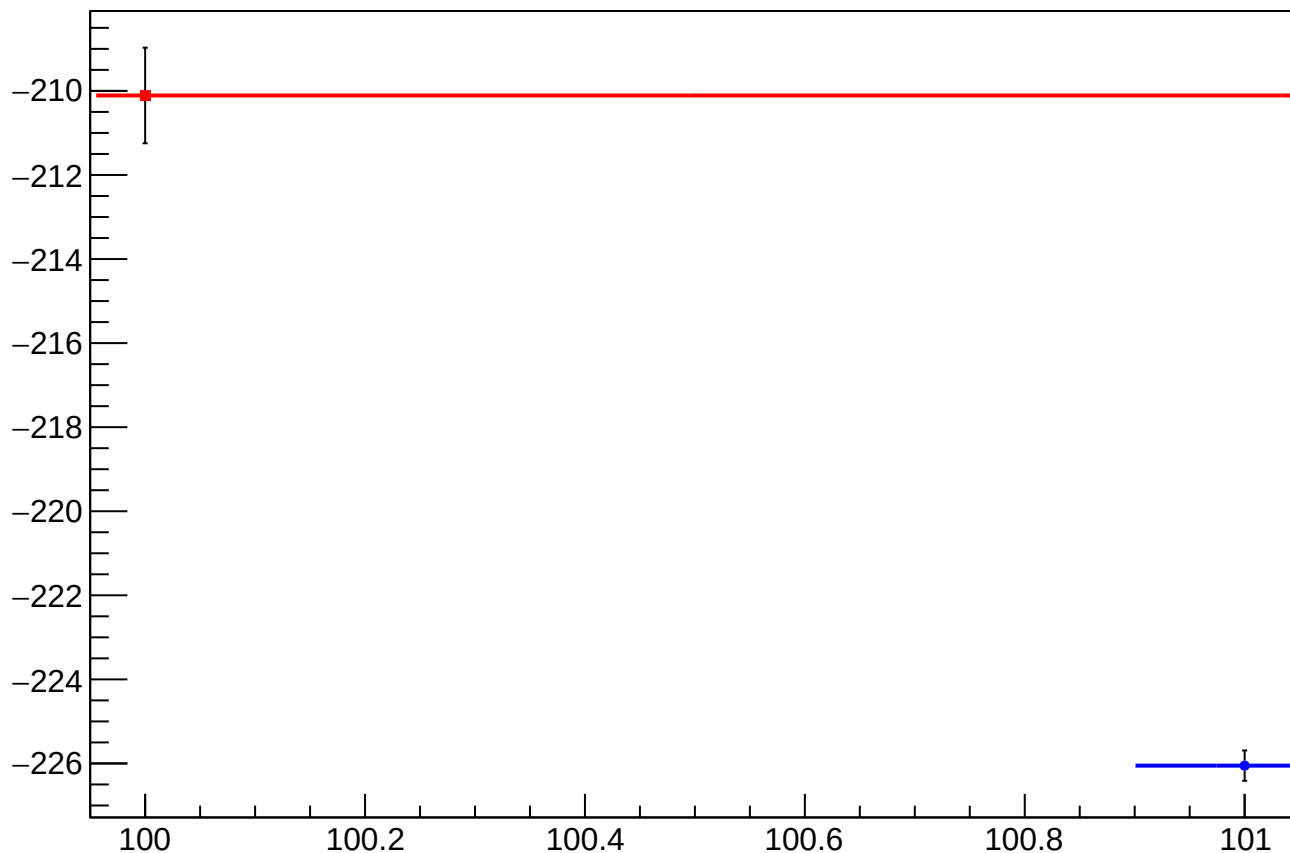
Right: 108.160 $\pm$ 7.819  $\chi^2$ /NDF: 2.6/1

In: 111.284 $\pm$ 8.052  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 108.160 $\pm$ 7.819  $\chi^2$ /NDF: 2.6/1

reg\_asym\_usr\_atr2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -226.052+/-0.361  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -210.109+/-1.137  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

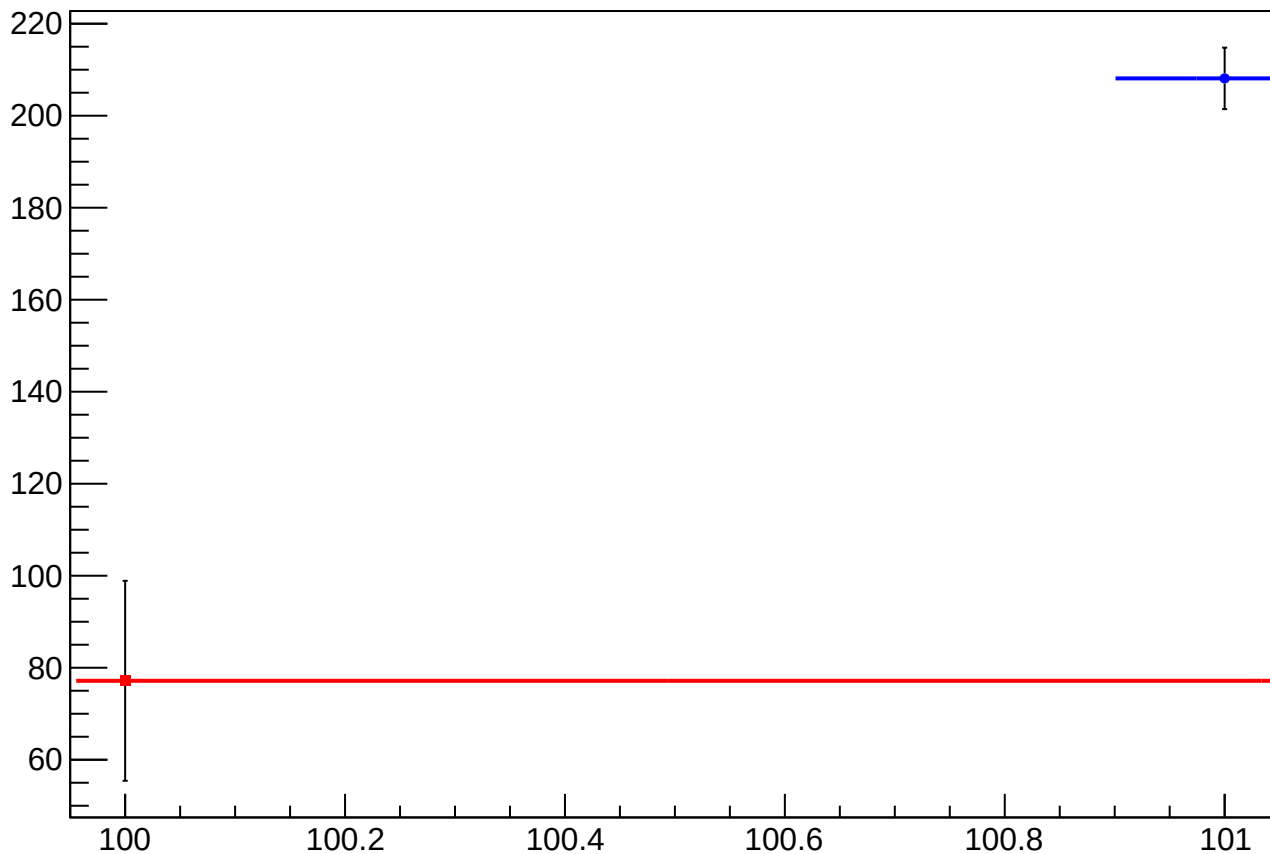
Right: -224.595+/-0.344  $\chi^2$ /NDF: 178.6/1

In: -226.052+/-0.361  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -224.595+/-0.344  $\chi^2$ /NDF: 178.6/1

reg\_asym\_usr\_atr2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 208.111 $\pm$ 6.679  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 77.159 $\pm$ 21.736  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

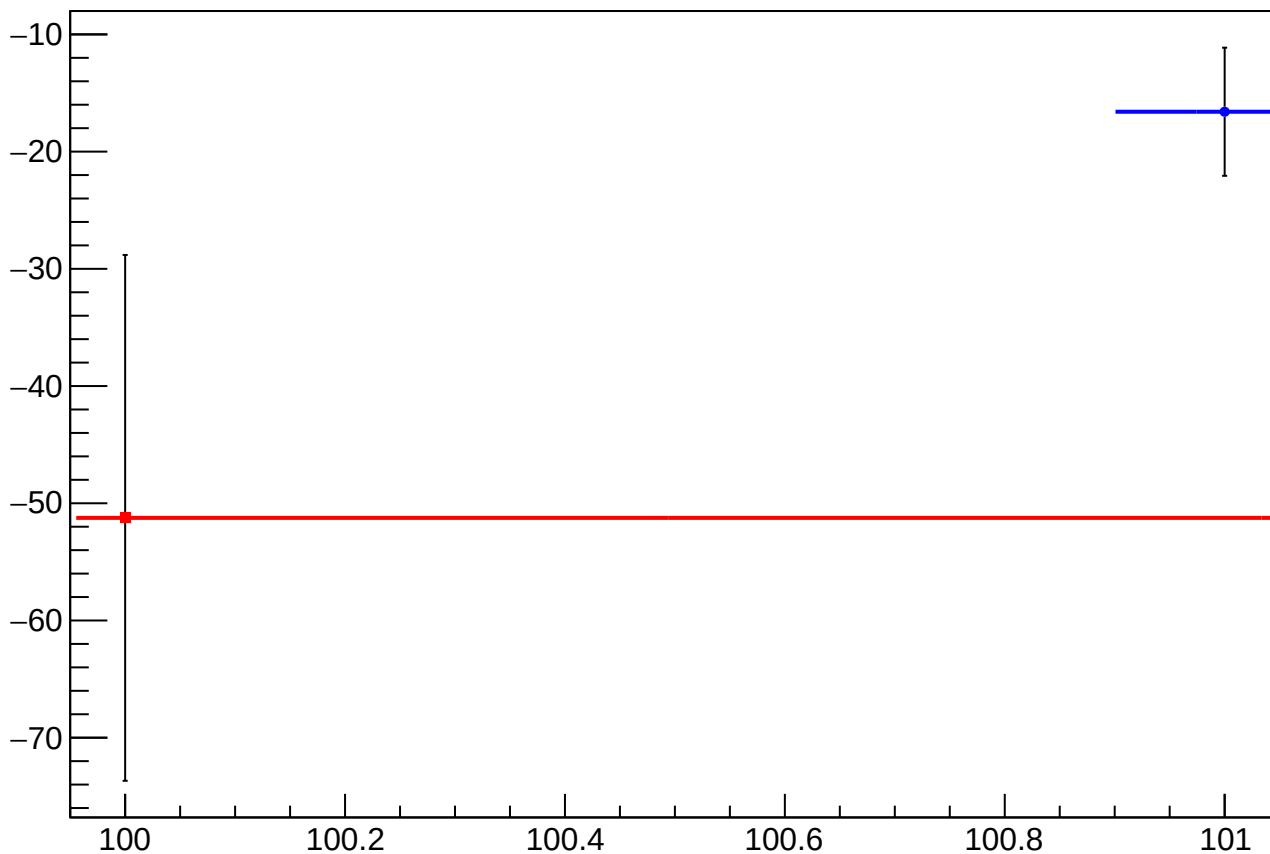
Right: 196.814 $\pm$ 6.384  $\chi^2$ /NDF: 33.2/1

In: 208.111 $\pm$ 6.679  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 196.814 $\pm$ 6.384  $\chi^2$ /NDF: 33.2/1

reg\_asym\_usr\_atr2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -16.598 $\pm$ 5.466  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -51.247 $\pm$ 22.430  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

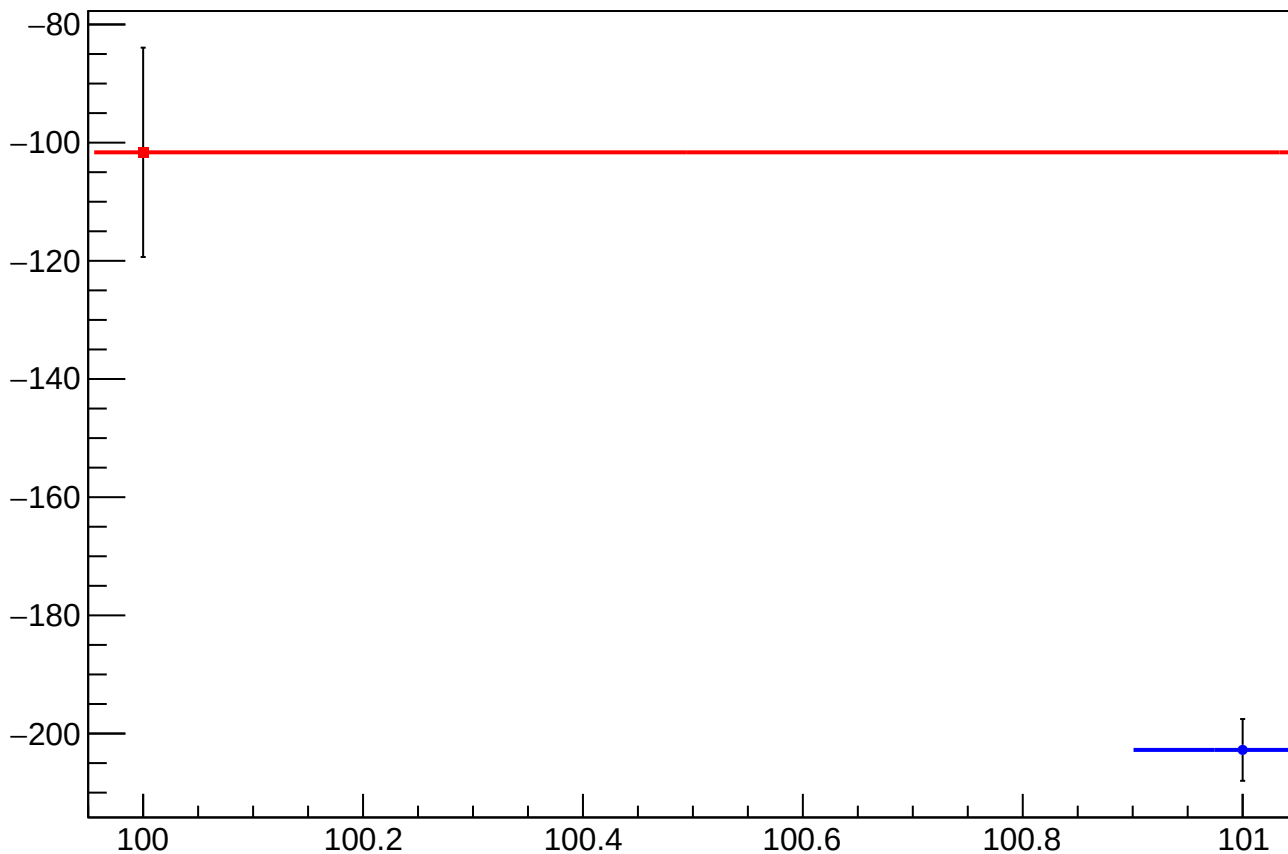
Right: -18.540 $\pm$ 5.310  $\chi^2$ /NDF: 2.3/1

In: -16.598 $\pm$ 5.466  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -18.540 $\pm$ 5.310  $\chi^2$ /NDF: 2.3/1

reg\_asym\_usr\_atr2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -202.769+/-5.227  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -101.639+/-17.712  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: -194.667+/-5.013  $\chi^2$ /NDF: 30.0/1

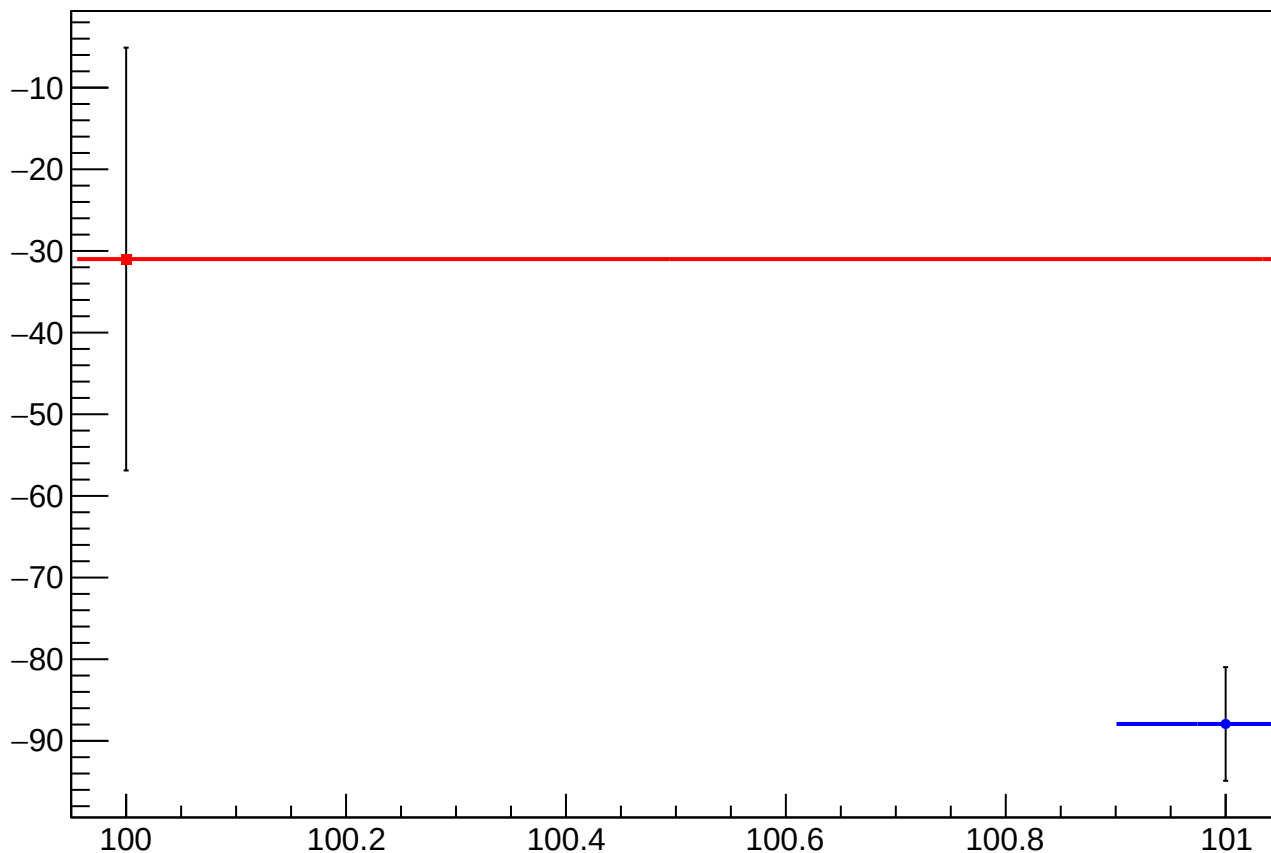
In: -202.769+/-5.227  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -194.667+/-5.013  $\chi^2$ /NDF: 30.0/1



reg\_asym\_usr\_atr2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-87.928 \pm 6.961$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-30.995 \pm 25.890$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

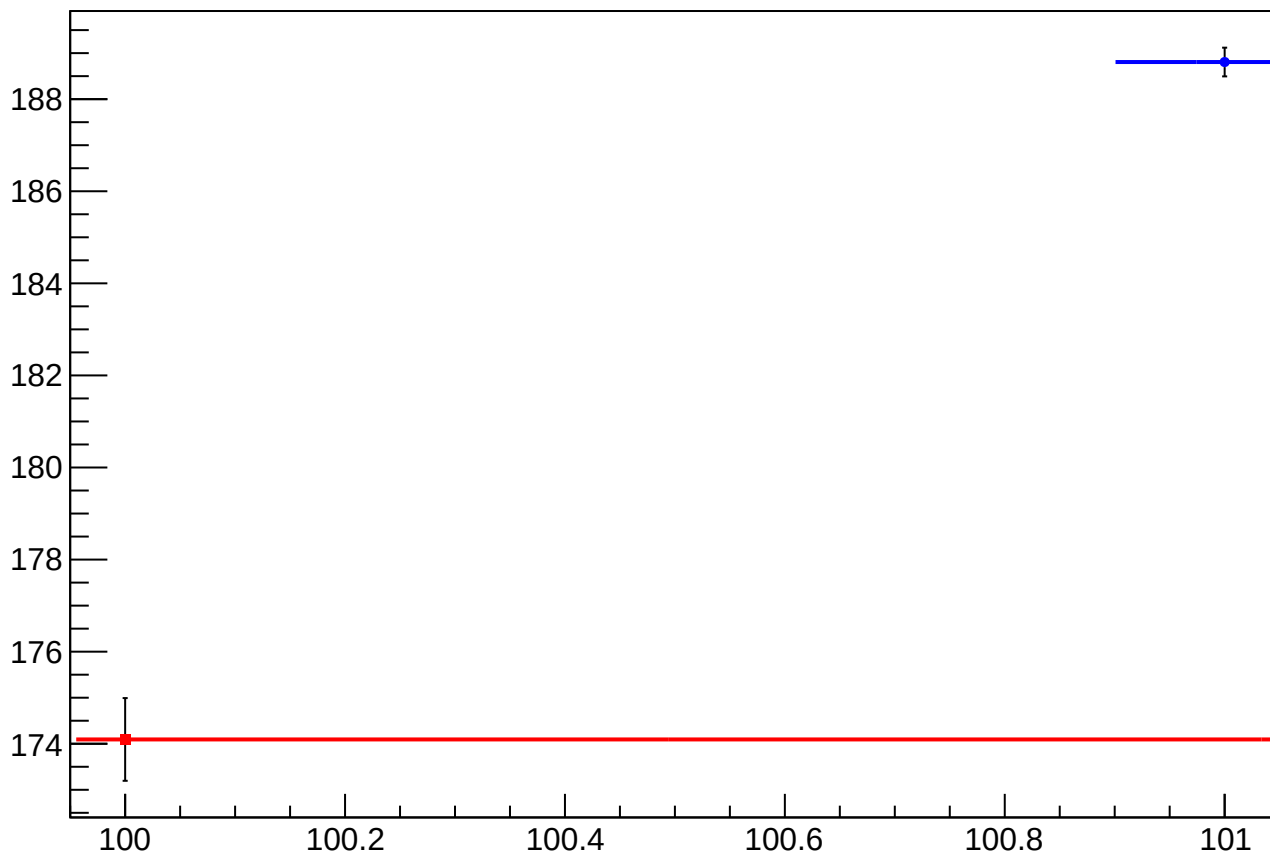
Right:  $-84.089 \pm 6.723$   $\chi^2/\text{NDF}: 4.5/1$

In:  $-87.928 \pm 6.961$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-84.089 \pm 6.723$   $\chi^2/\text{NDF}: 4.5/1$

reg\_asym\_usr\_atr2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 188.807 $\pm$ 0.312  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 174.094 $\pm$ 0.898  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

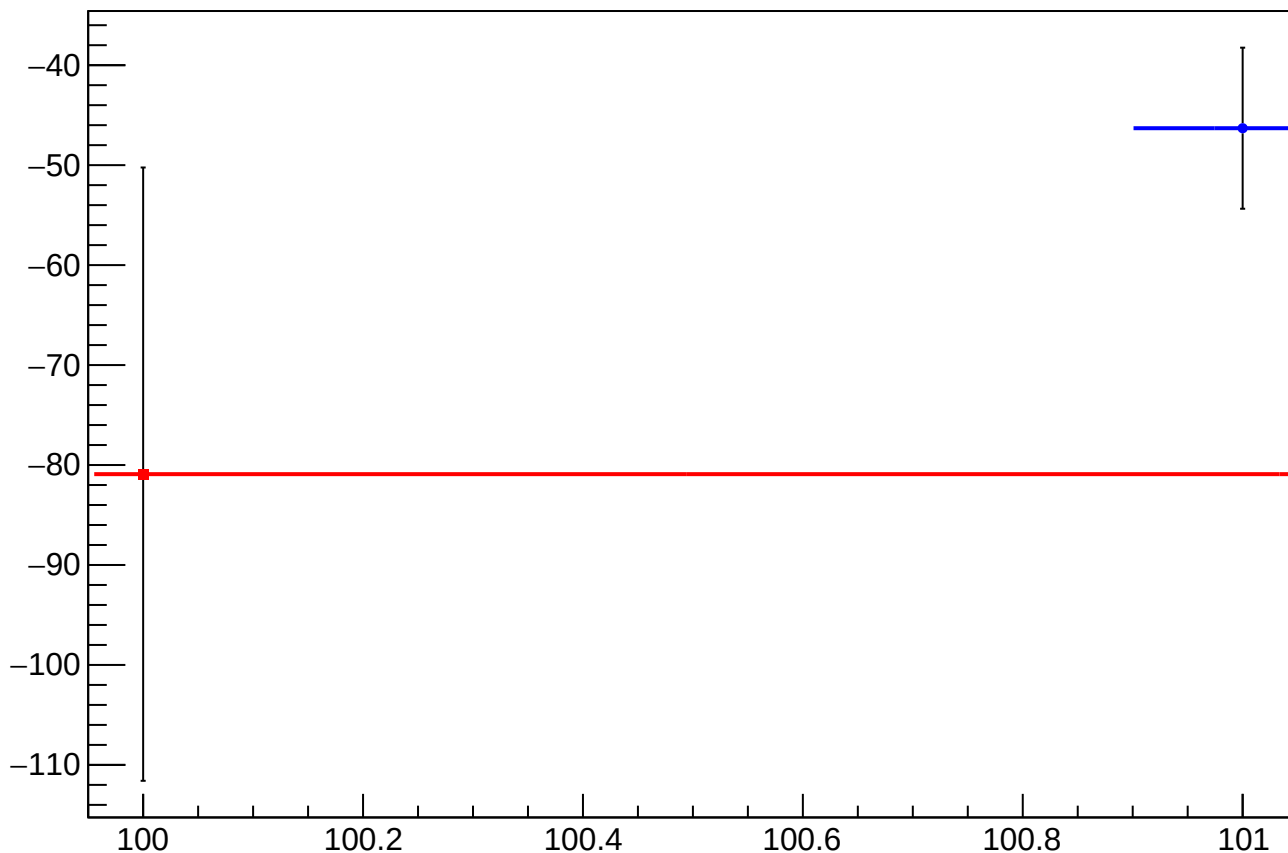
Right: 187.225 $\pm$ 0.295  $\chi^2$ /NDF: 239.4/1

In: 188.807 $\pm$ 0.312  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 187.225 $\pm$ 0.295  $\chi^2$ /NDF: 239.4/1

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -46.305 $\pm$ 8.057  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -80.913 $\pm$ 30.678  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

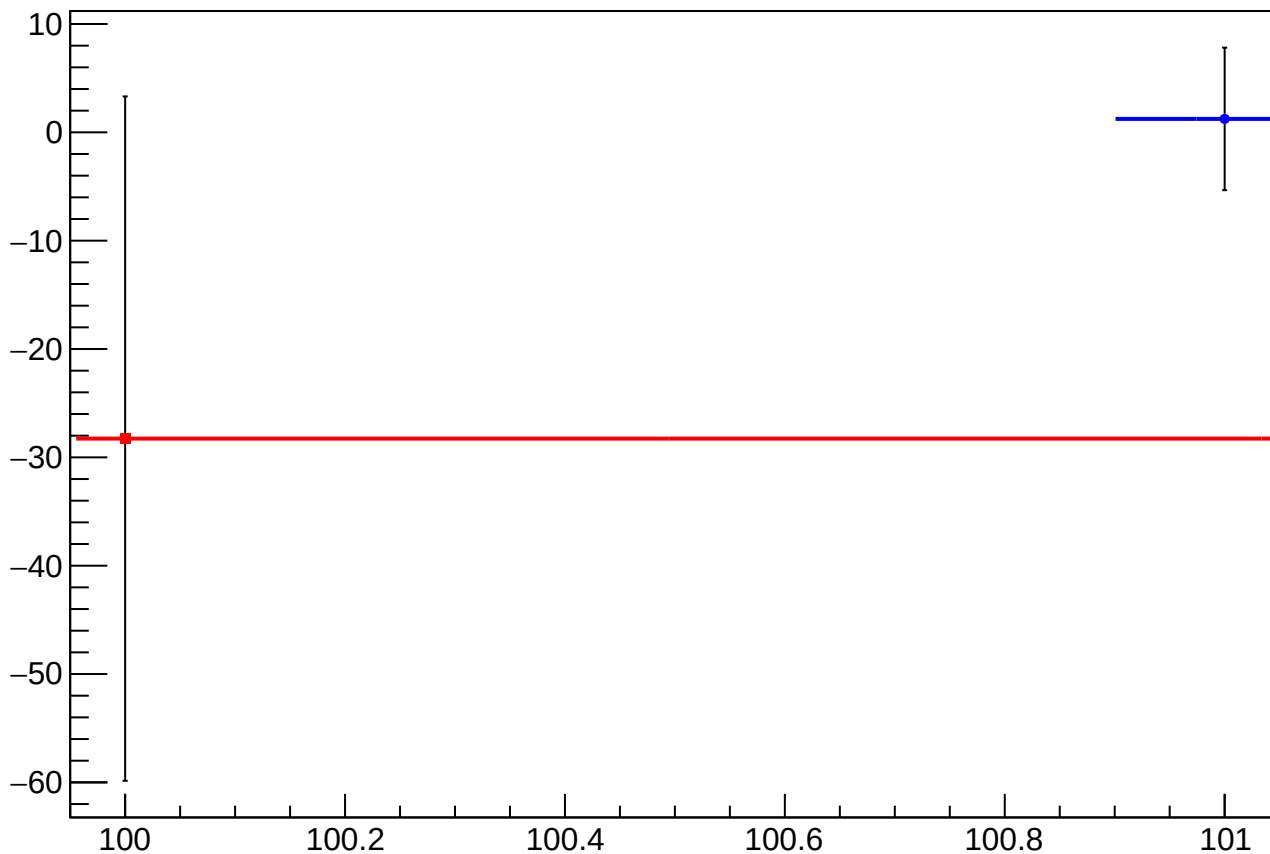
Right: -48.538 $\pm$ 7.793  $\chi^2$ /NDF: 1.2/1

In: -46.305 $\pm$ 8.057  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -48.538 $\pm$ 7.793  $\chi^2$ /NDF: 1.2/1

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 1.239+/-6.576  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -28.269+/-31.586  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

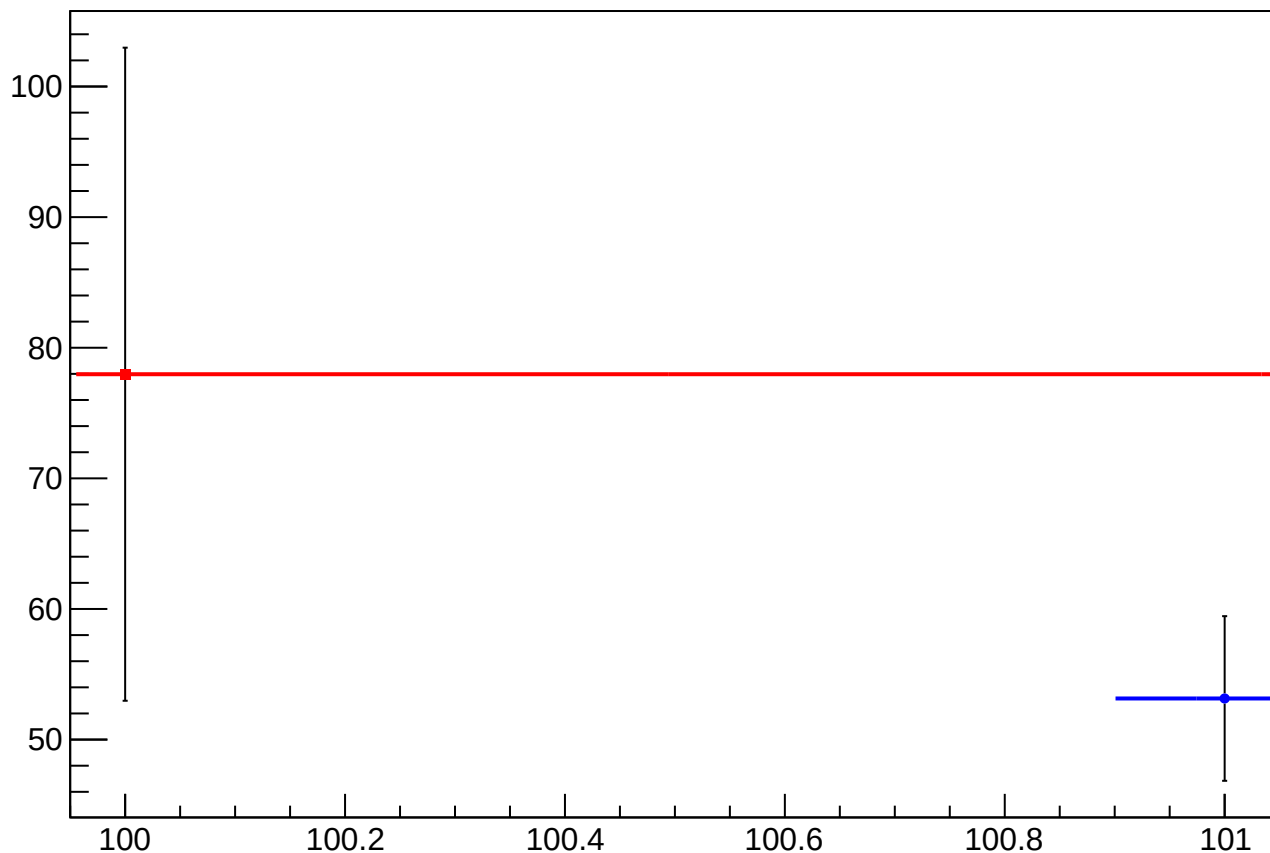
Right: 0.013+/-6.438  $\chi^2/\text{NDF}$ : 0.8/1

In: 1.239+/-6.576  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-6.438  $\chi^2/\text{NDF}$ : 0.8/1

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 53.147+/-6.303  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 77.973+/-25.001  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

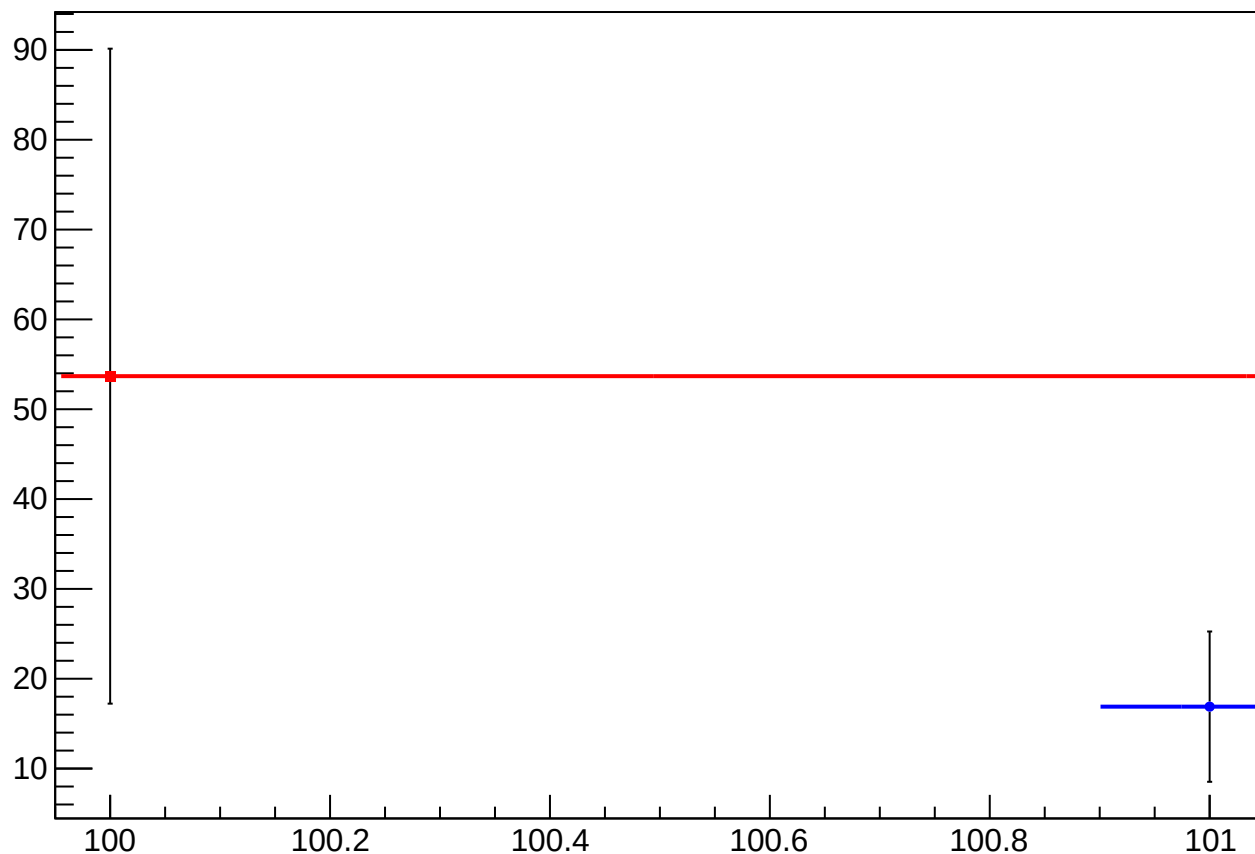
Right: 54.630+/-6.111  $\chi^2/\text{NDF}$ : 0.9/1

In: 53.147+/-6.303  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 54.630+/-6.111  $\chi^2/\text{NDF}$ : 0.9/1

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 16.892+/-8.366  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 53.683+/-36.456  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

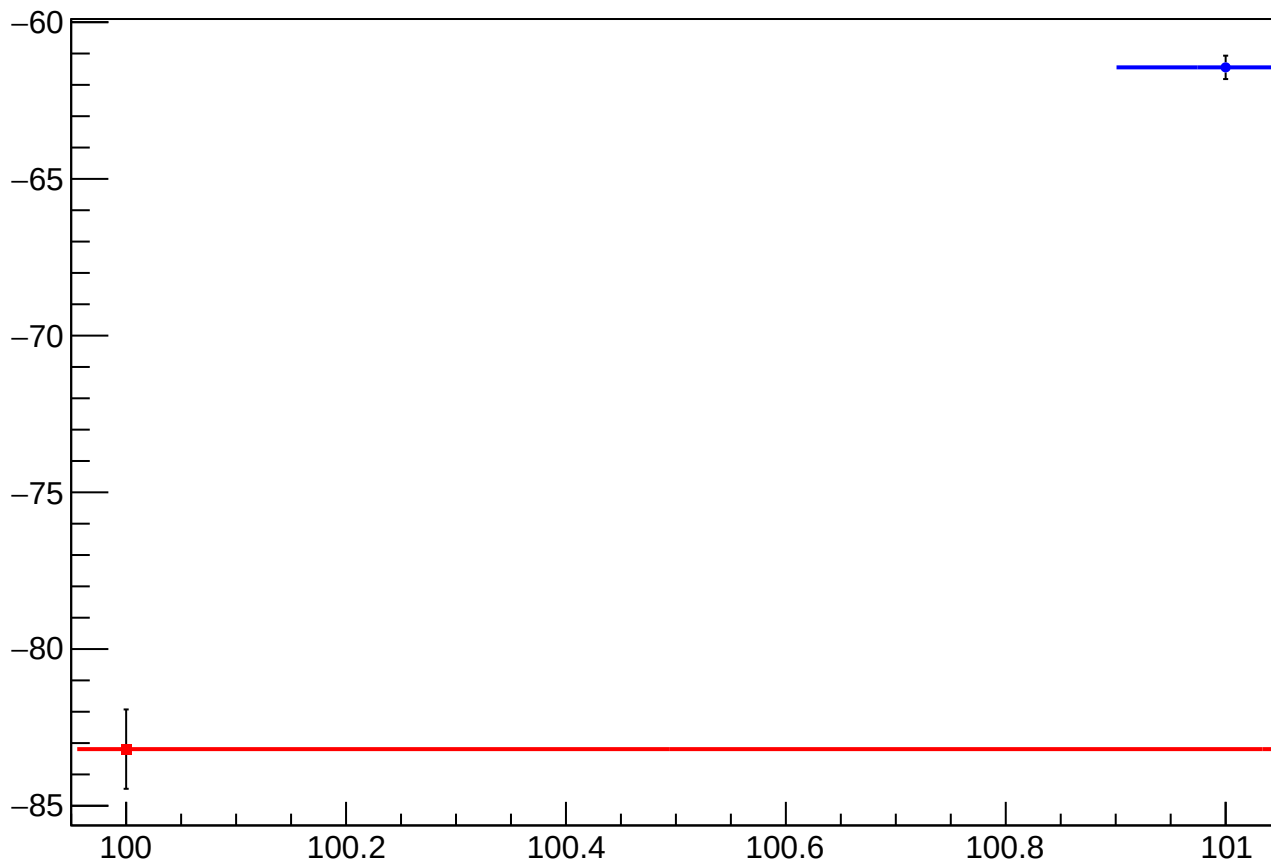
Right: 18.732+/-8.154  $\chi^2/\text{NDF}$ : 1.0/1

In: 16.892+/-8.366  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.732+/-8.154  $\chi^2/\text{NDF}$ : 1.0/1

reg\_asym\_us\_avg\_at1lr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -61.442 $\pm$ 0.373  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -83.192 $\pm$ 1.266  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

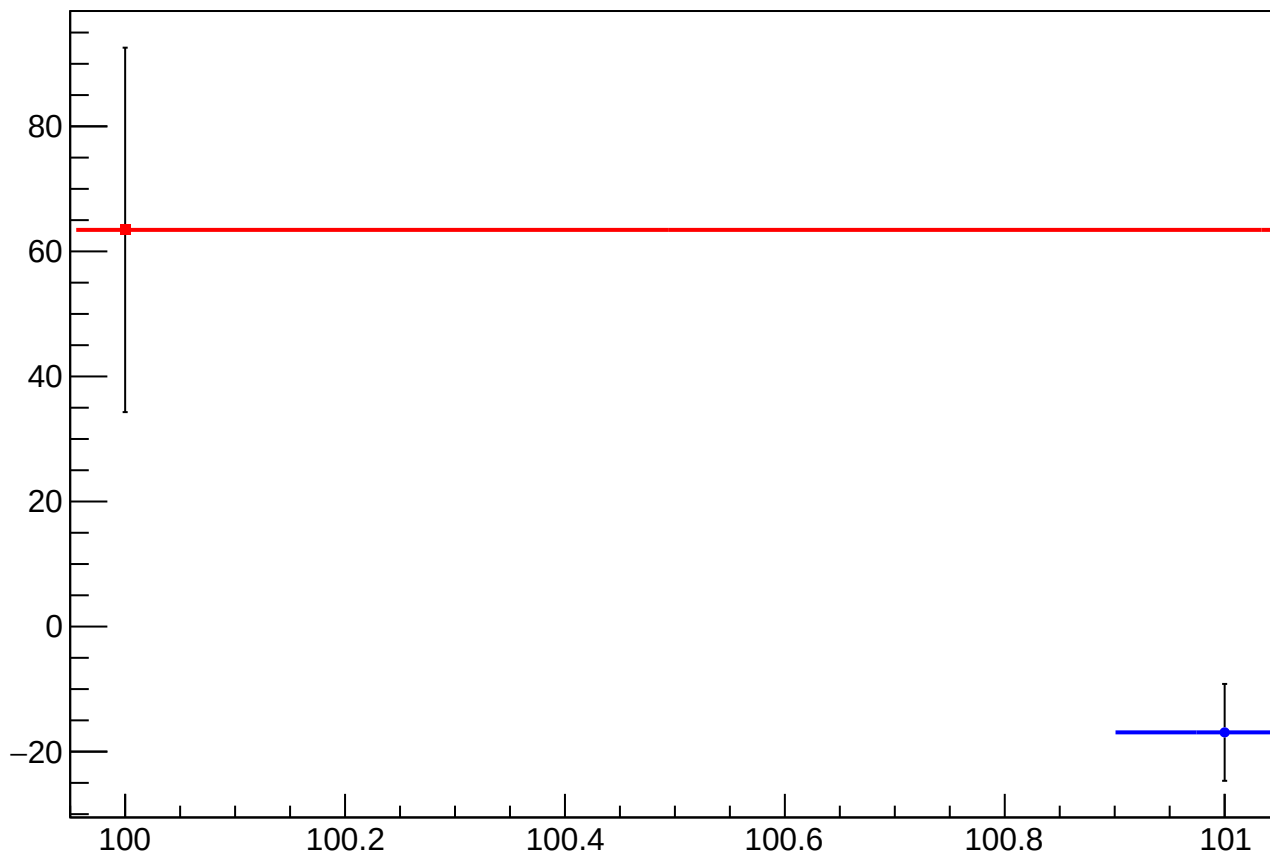
Right: -63.180 $\pm$ 0.358  $\chi^2/\text{NDF}$ : 271.6/1

In: -61.442 $\pm$ 0.373  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -63.180 $\pm$ 0.358  $\chi^2/\text{NDF}$ : 271.6/1

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -16.921 $\pm$ 7.746  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 63.440 $\pm$ 29.142  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -11.619 $\pm$ 7.486  $\chi^2$ /NDF: 7.1/1

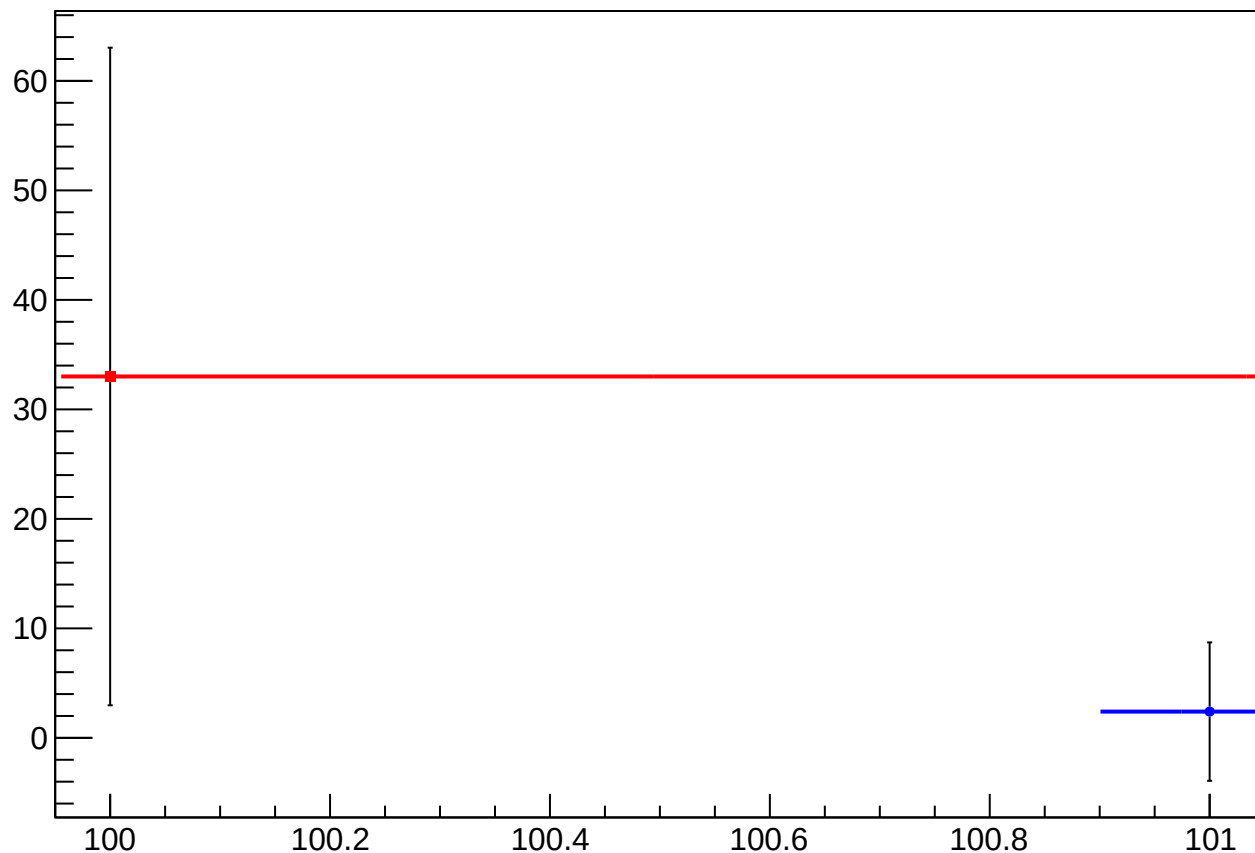
In: -16.921 $\pm$ 7.746  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.619 $\pm$ 7.486  $\chi^2$ /NDF: 7.1/1



reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 2.400+/-6.320  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 33.005+/-30.029  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

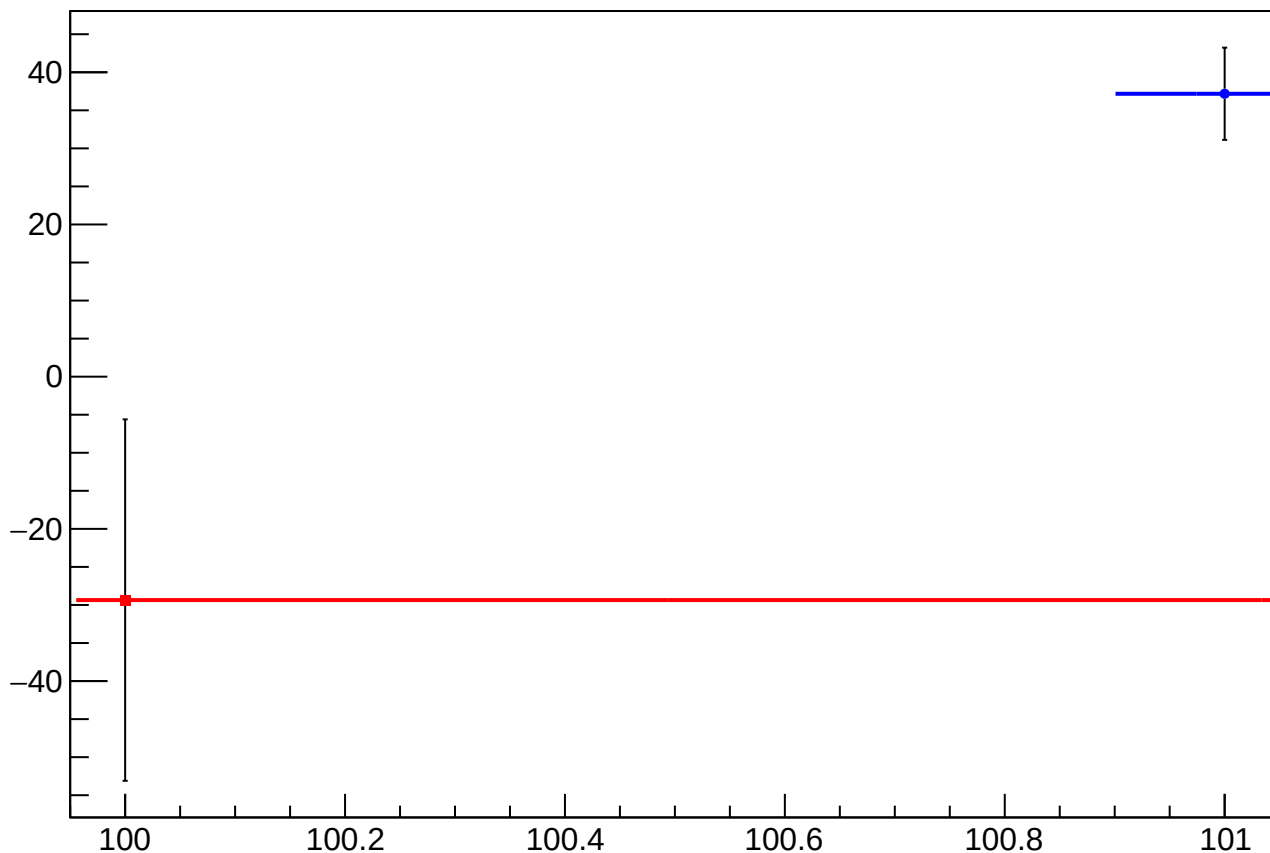
Right: 3.698+/-6.184  $\chi^2/\text{NDF}$ : 1.0/1

In: 2.400+/-6.320  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.698+/-6.184  $\chi^2/\text{NDF}$ : 1.0/1

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 37.174+/-6.059  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -29.357+/-23.748  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

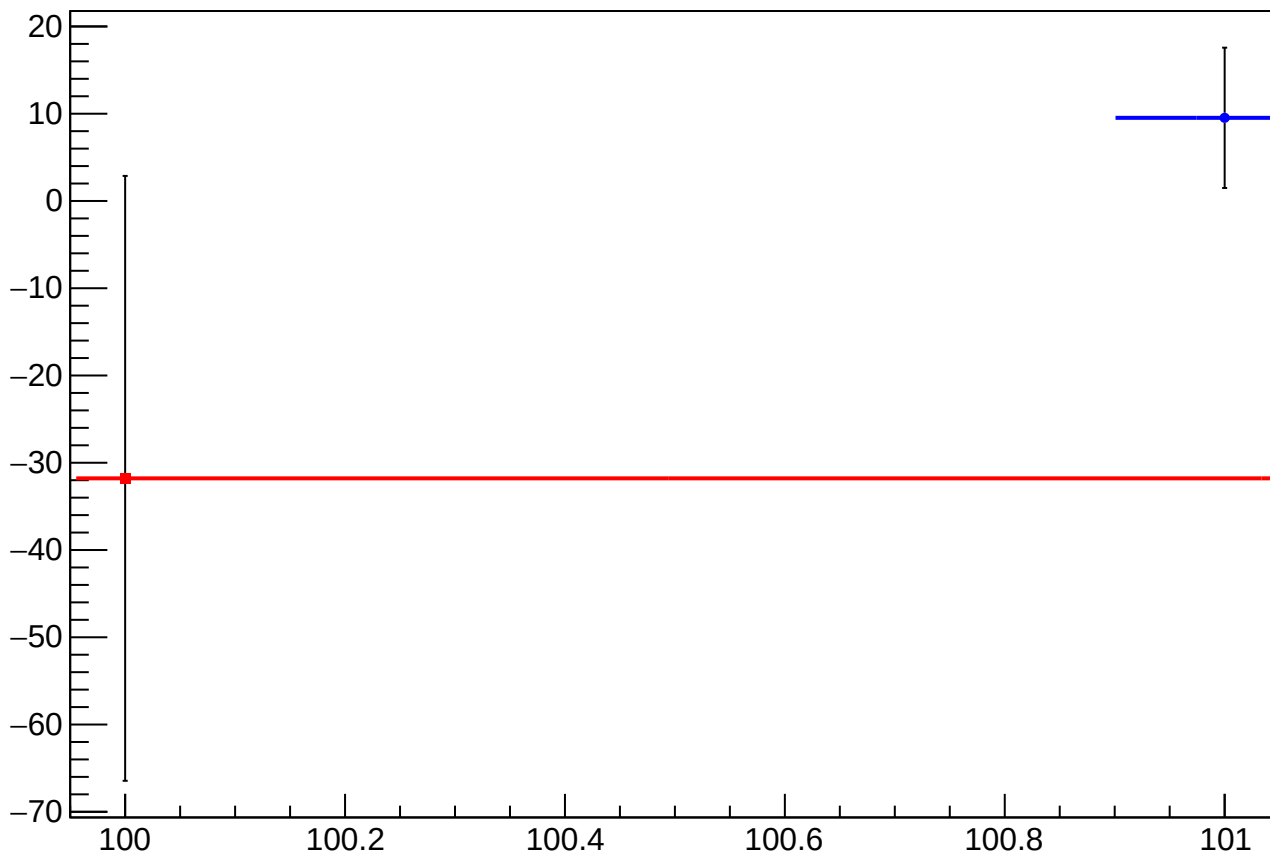
Right: 33.109+/-5.871  $\chi^2/\text{NDF}$ : 7.4/1

In: 37.174+/-6.059  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 33.109+/-5.871  $\chi^2/\text{NDF}$ : 7.4/1

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 9.528 $\pm$ 8.040  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -31.788 $\pm$ 34.660  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

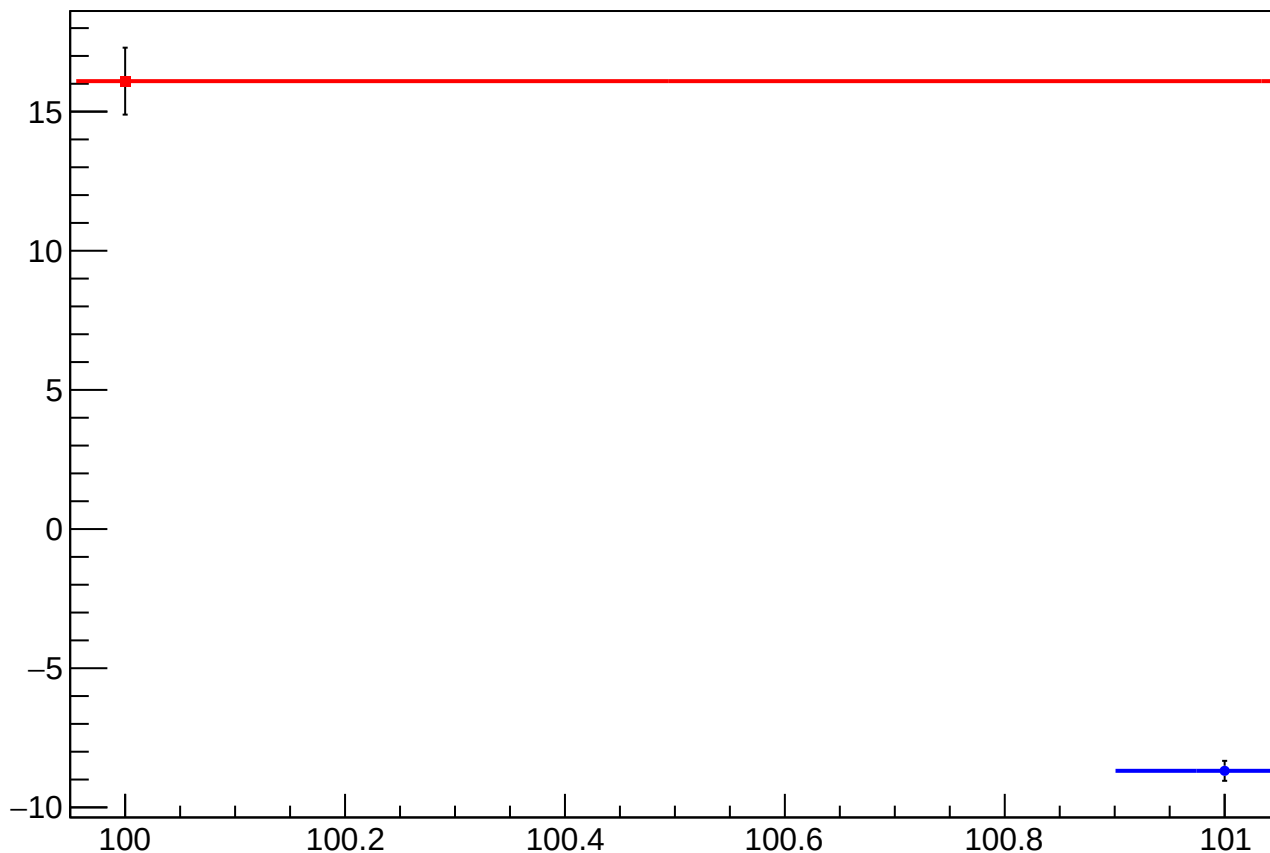
Right: 7.418 $\pm$ 7.832  $\chi^2/\text{NDF}$ : 1.3/1

In: 9.528 $\pm$ 8.040  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.418 $\pm$ 7.832  $\chi^2/\text{NDF}$ : 1.3/1

reg\_asym\_us\_avg\_at1lr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -8.687 $\pm$ 0.358  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 16.094 $\pm$ 1.203  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

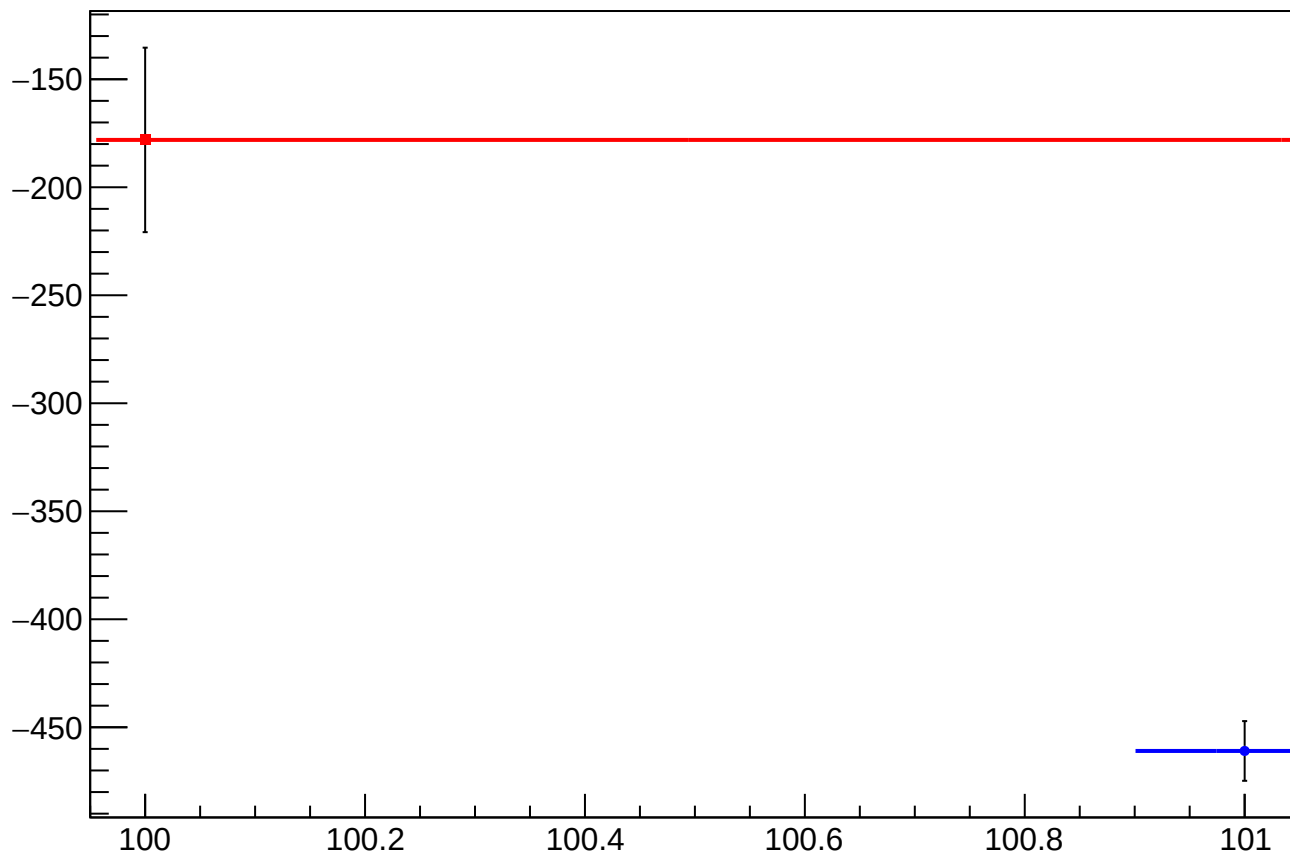
Right: -6.664 $\pm$ 0.344  $\chi^2/\text{NDF}$ : 390.0/1

In: -8.687 $\pm$ 0.358  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.664 $\pm$ 0.344  $\chi^2/\text{NDF}$ : 390.0/1

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -460.965+/-13.818  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -178.081+/-42.704  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

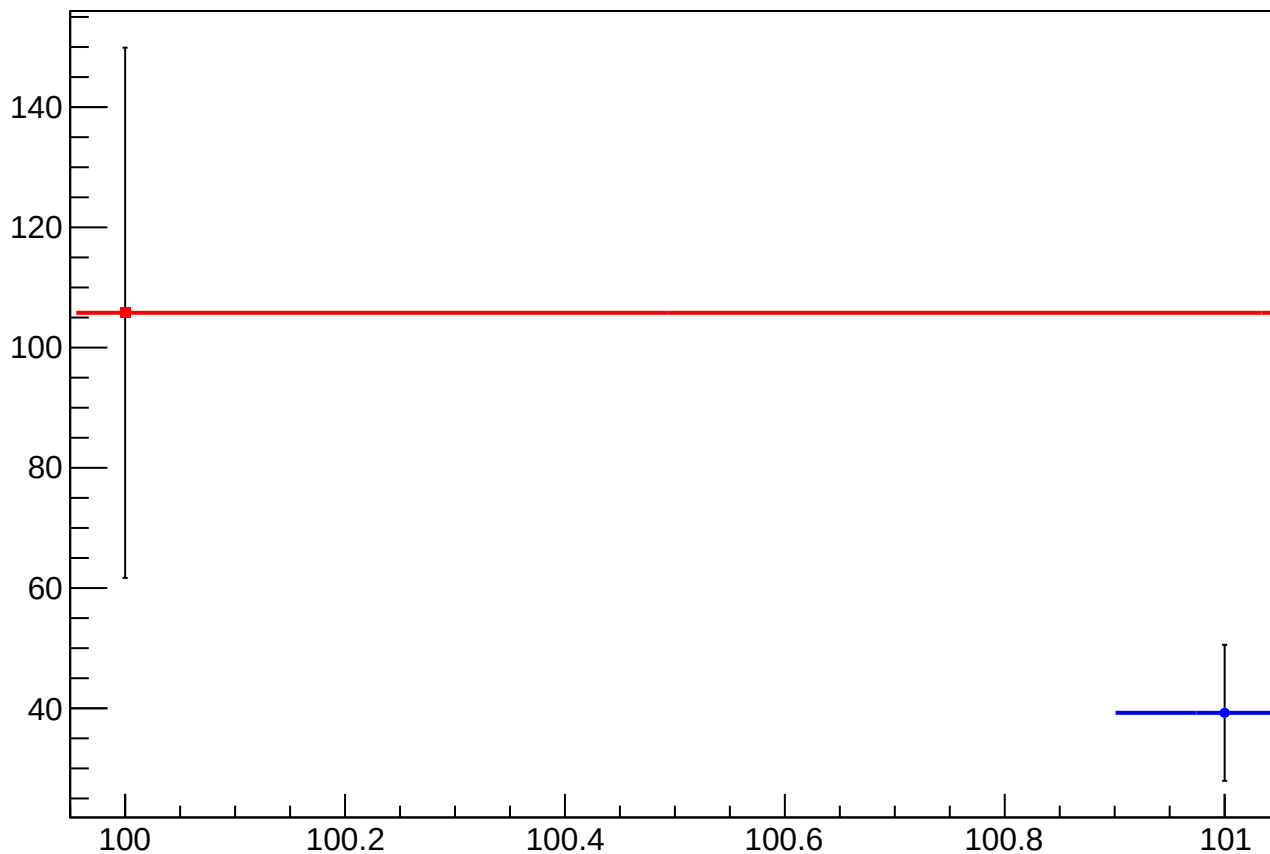
Right: -434.154+/-13.147  $\chi^2/\text{NDF}$ : 39.7/1

In: -460.965+/-13.818  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -434.154+/-13.147  $\chi^2/\text{NDF}$ : 39.7/1

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 39.244+/-11.306  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 105.789+/-44.102  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

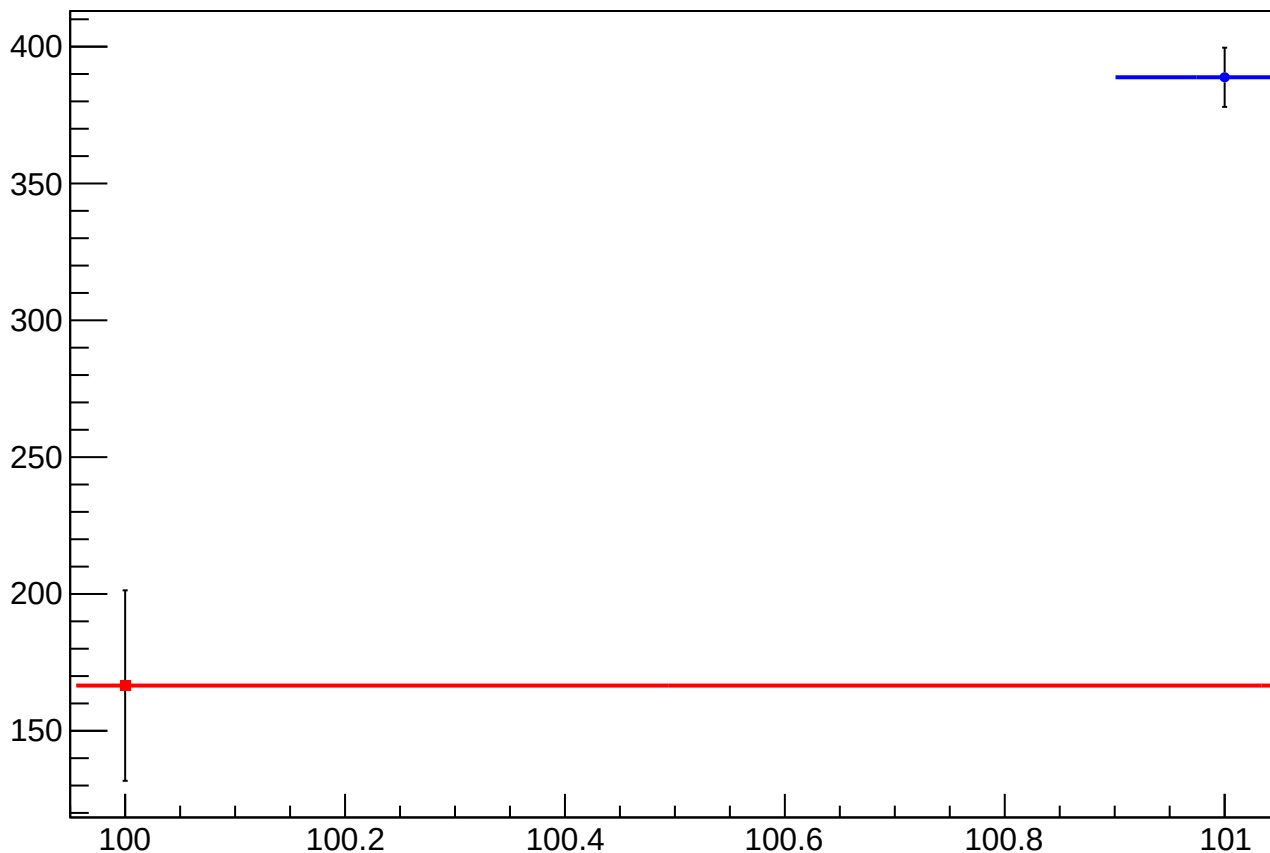
Right: 43.348+/-10.952  $\chi^2/\text{NDF}$ : 2.1/1

In: 39.244+/-11.306  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.348+/-10.952  $\chi^2/\text{NDF}$ : 2.1/1

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 388.810 $\pm$ 10.815  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 166.532 $\pm$ 34.798  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

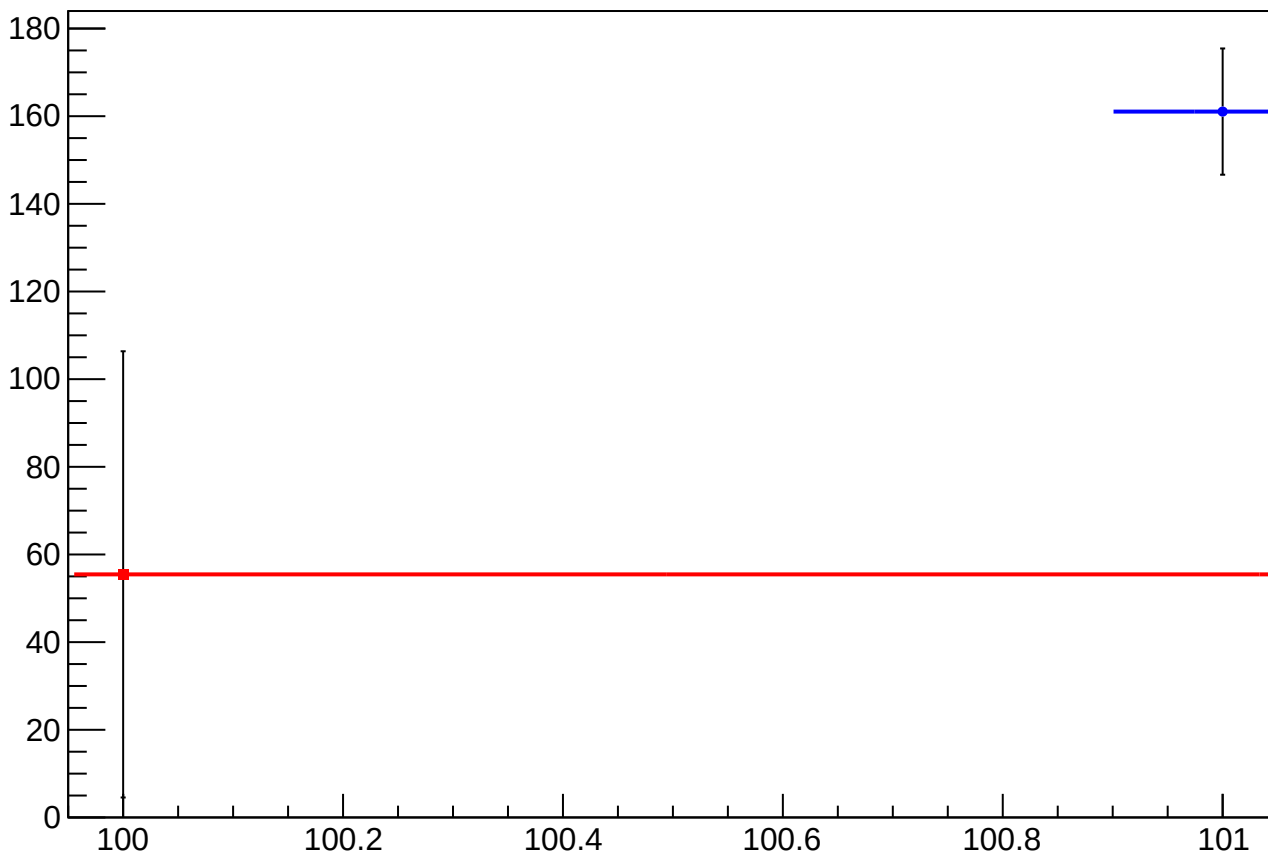
Right: 369.229 $\pm$ 10.328  $\chi^2$ /NDF: 37.2/1

In: 388.810 $\pm$ 10.815  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 369.229 $\pm$ 10.328  $\chi^2$ /NDF: 37.2/1

reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 161.050 $\pm$ 14.403  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 55.460 $\pm$ 50.905  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 153.224 $\pm$ 13.859  $\chi^2$ /NDF: 4.0/1

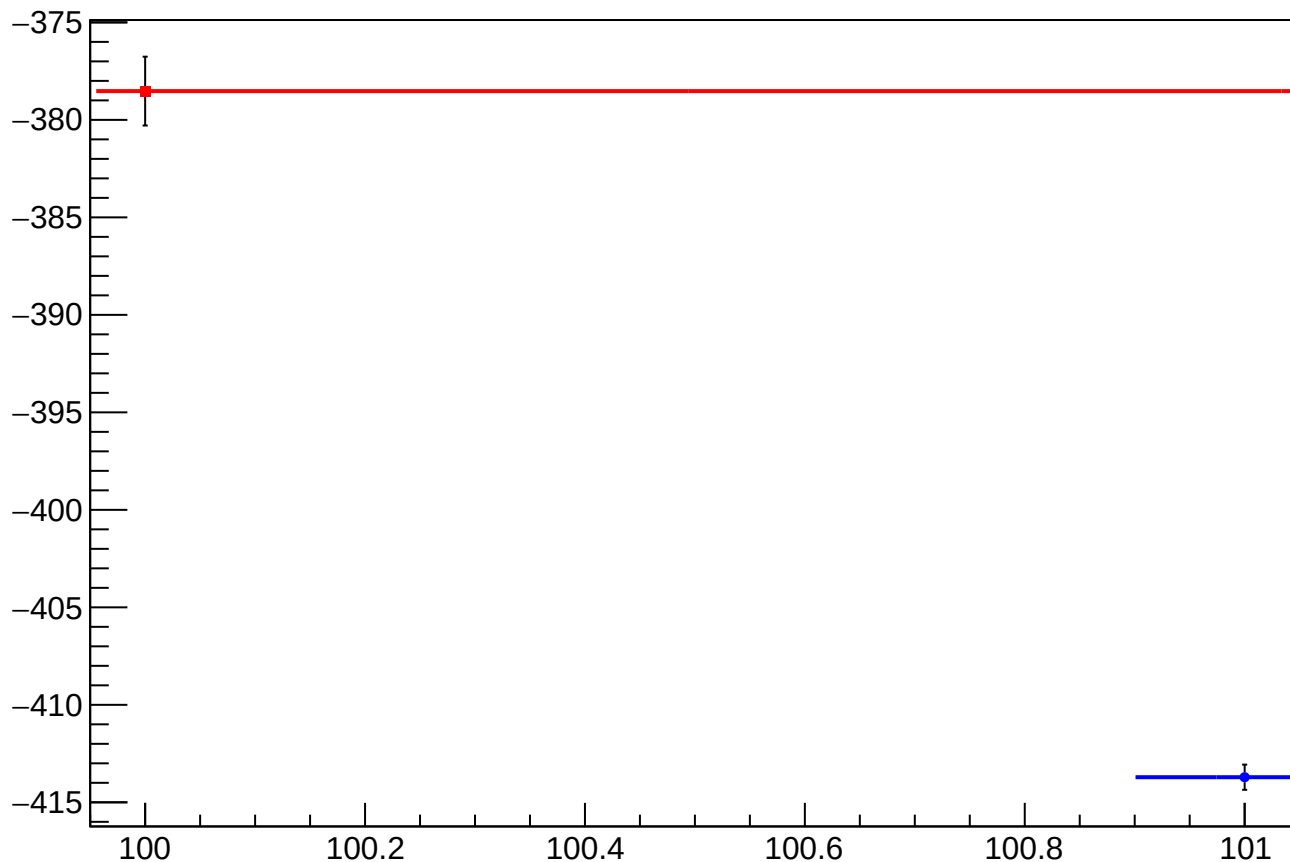
In: 161.050 $\pm$ 14.403  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 153.224 $\pm$ 13.859  $\chi^2$ /NDF: 4.0/1



reg\_asym\_us\_avg\_at2lr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -413.712 $\pm$ 0.646  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -378.524 $\pm$ 1.765  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

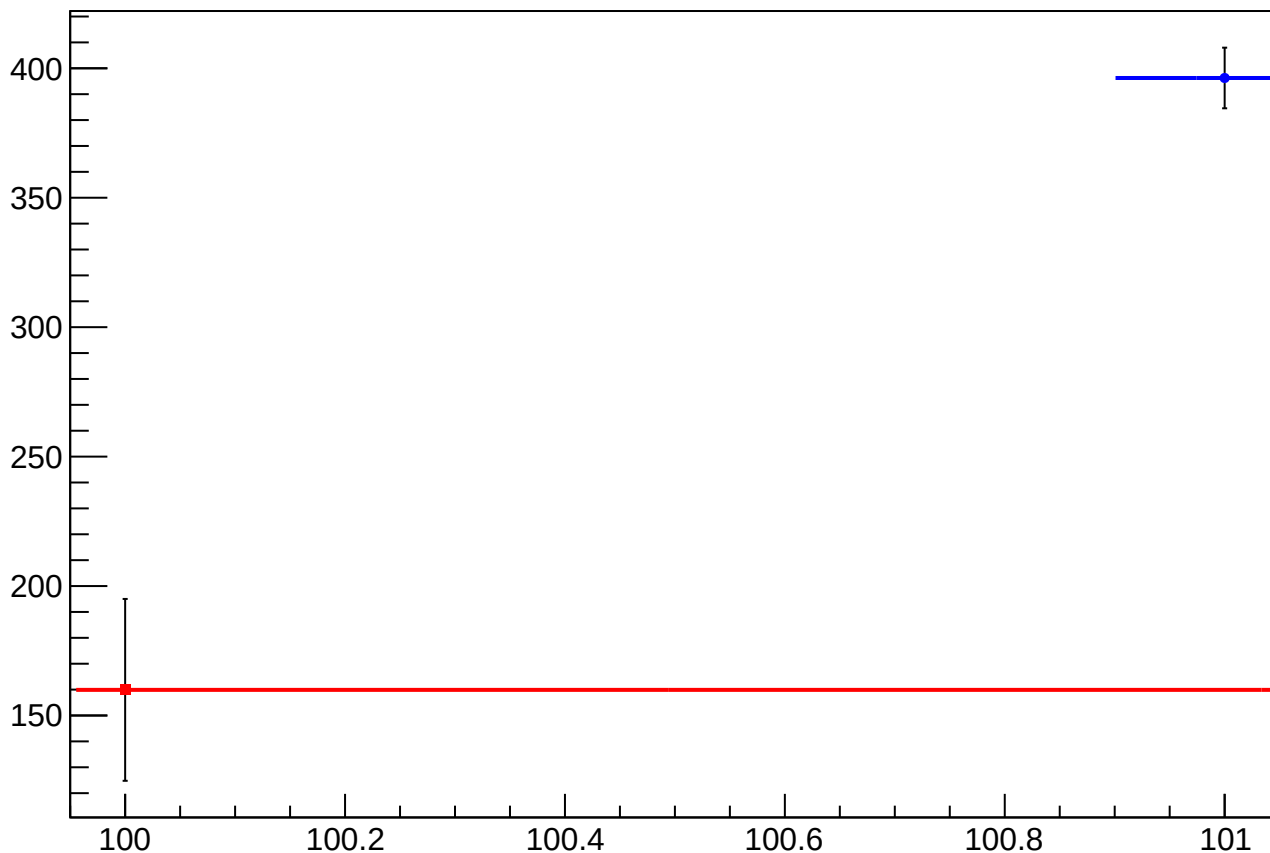
Right: -409.560 $\pm$ 0.606  $\chi^2$ /NDF: 350.4/1

In: -413.712 $\pm$ 0.646  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -409.560 $\pm$ 0.606  $\chi^2$ /NDF: 350.4/1

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 396.255+/-11.710  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 159.898+/-35.122  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

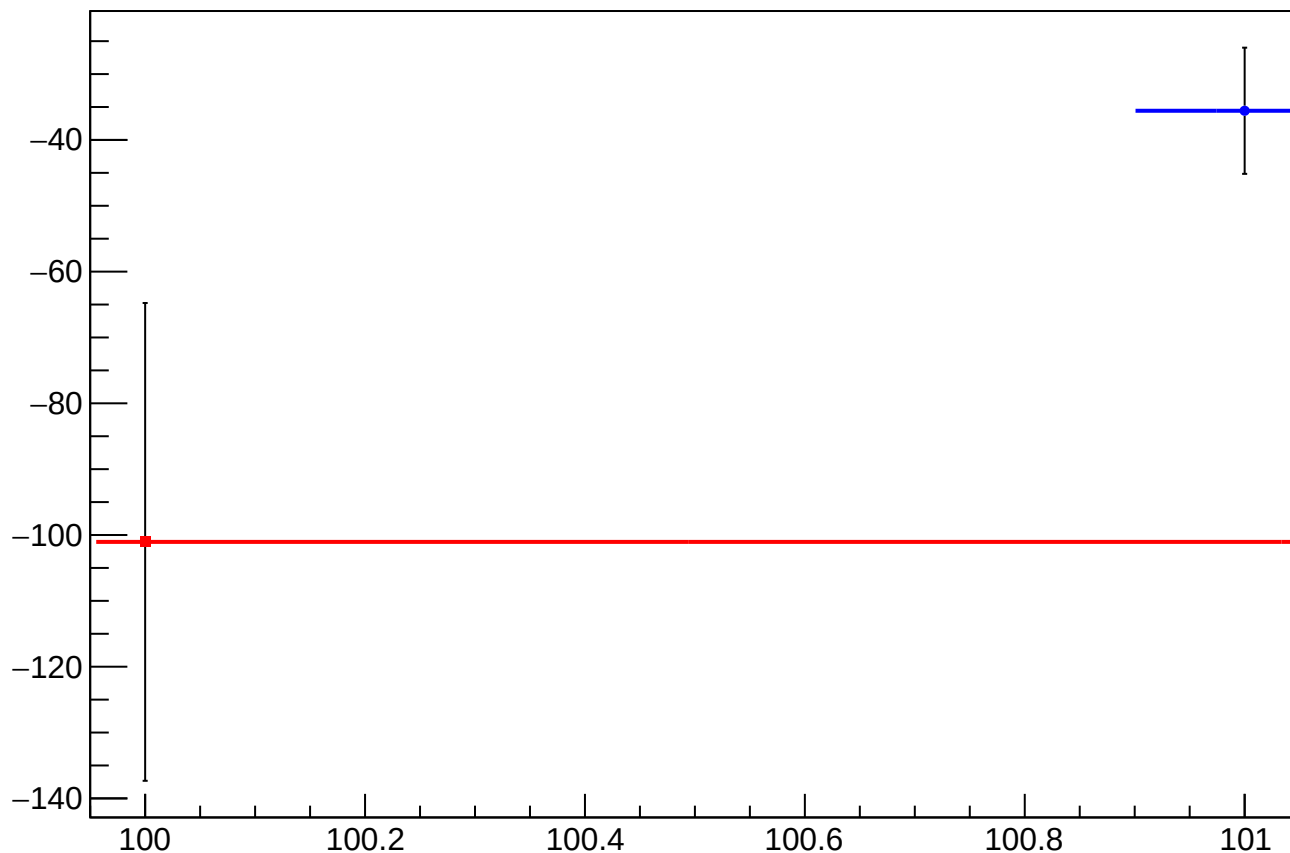
Right: 372.608+/-11.109  $\chi^2/\text{NDF}$ : 40.8/1

In: 396.255+/-11.710  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 372.608+/-11.109  $\chi^2/\text{NDF}$ : 40.8/1

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -35.571 $\pm$ 9.582  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -101.046 $\pm$ 36.282  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

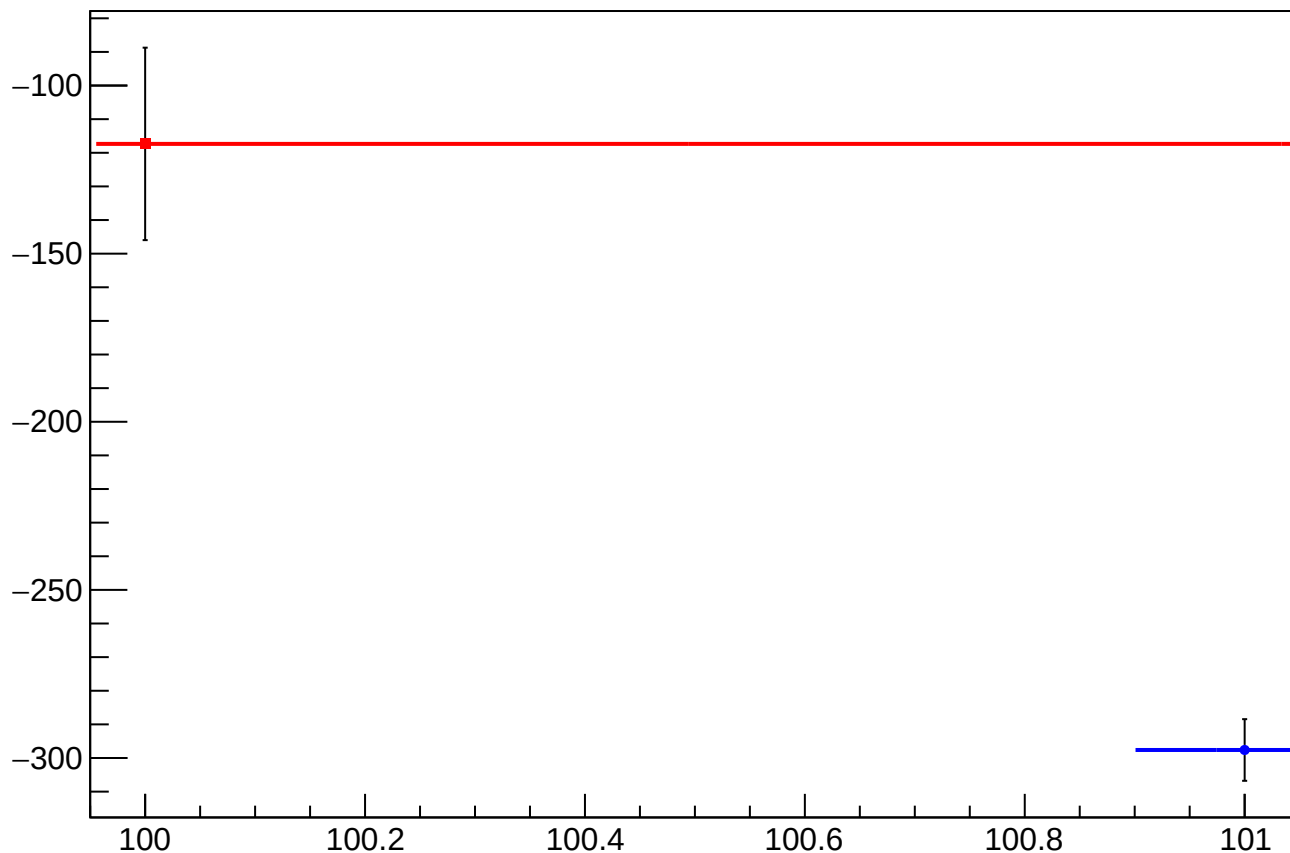
Right: -39.840 $\pm$ 9.264  $\chi^2$ /NDF: 3.0/1

In: -35.571 $\pm$ 9.582  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -39.840 $\pm$ 9.264  $\chi^2$ /NDF: 3.0/1

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -297.615+/-9.166  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -117.355+/-28.619  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

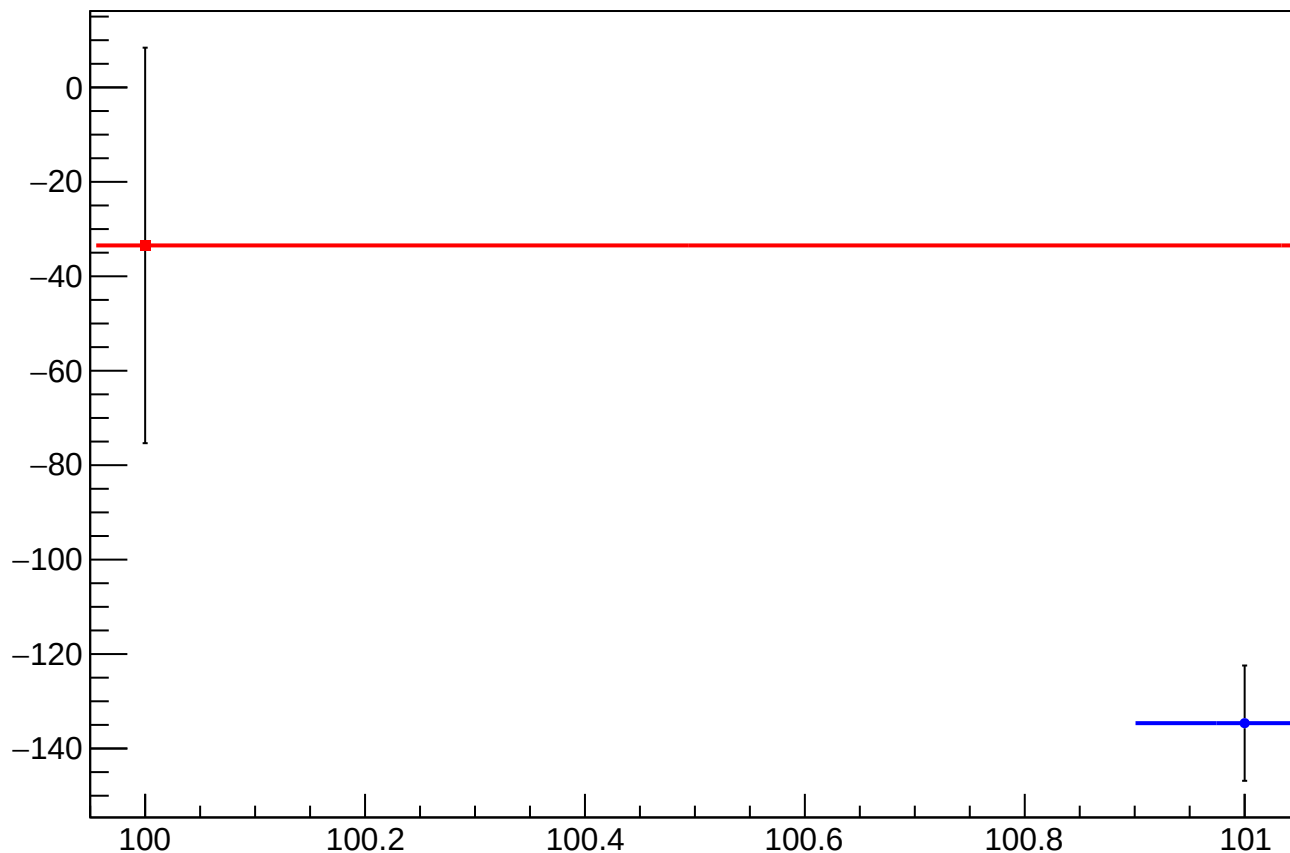
Right: -280.845+/-8.729  $\chi^2/\text{NDF}$ : 36.0/1

In: -297.615+/-9.166  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -280.845+/-8.729  $\chi^2/\text{NDF}$ : 36.0/1

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -134.633+/-12.207  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -33.462+/-41.879  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

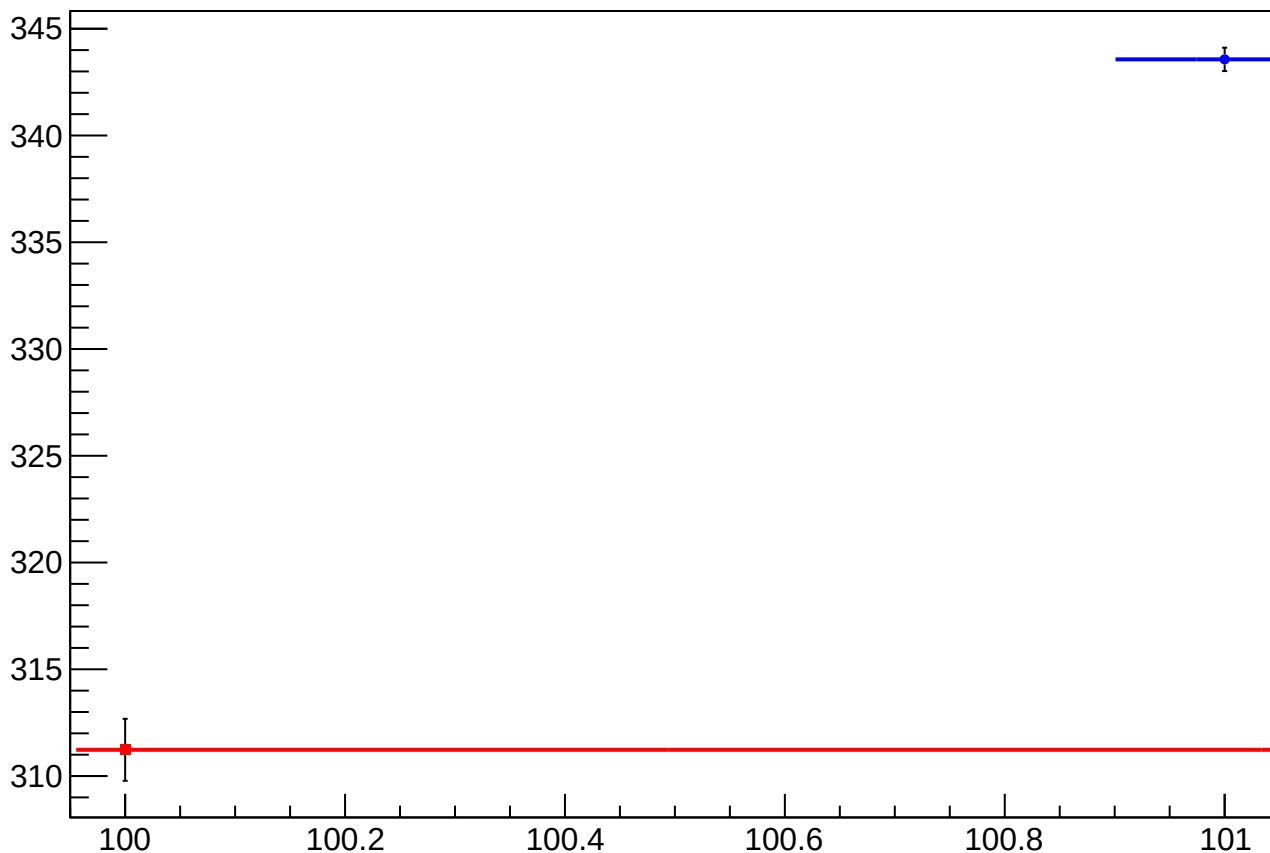
Right: -126.710+/-11.719  $\chi^2/\text{NDF}$ : 5.4/1

In: -134.633+/-12.207  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -126.710+/-11.719  $\chi^2/\text{NDF}$ : 5.4/1

reg\_asym\_us\_avg\_at2lr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 343.566 $\pm$ 0.547  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 311.230 $\pm$ 1.452  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

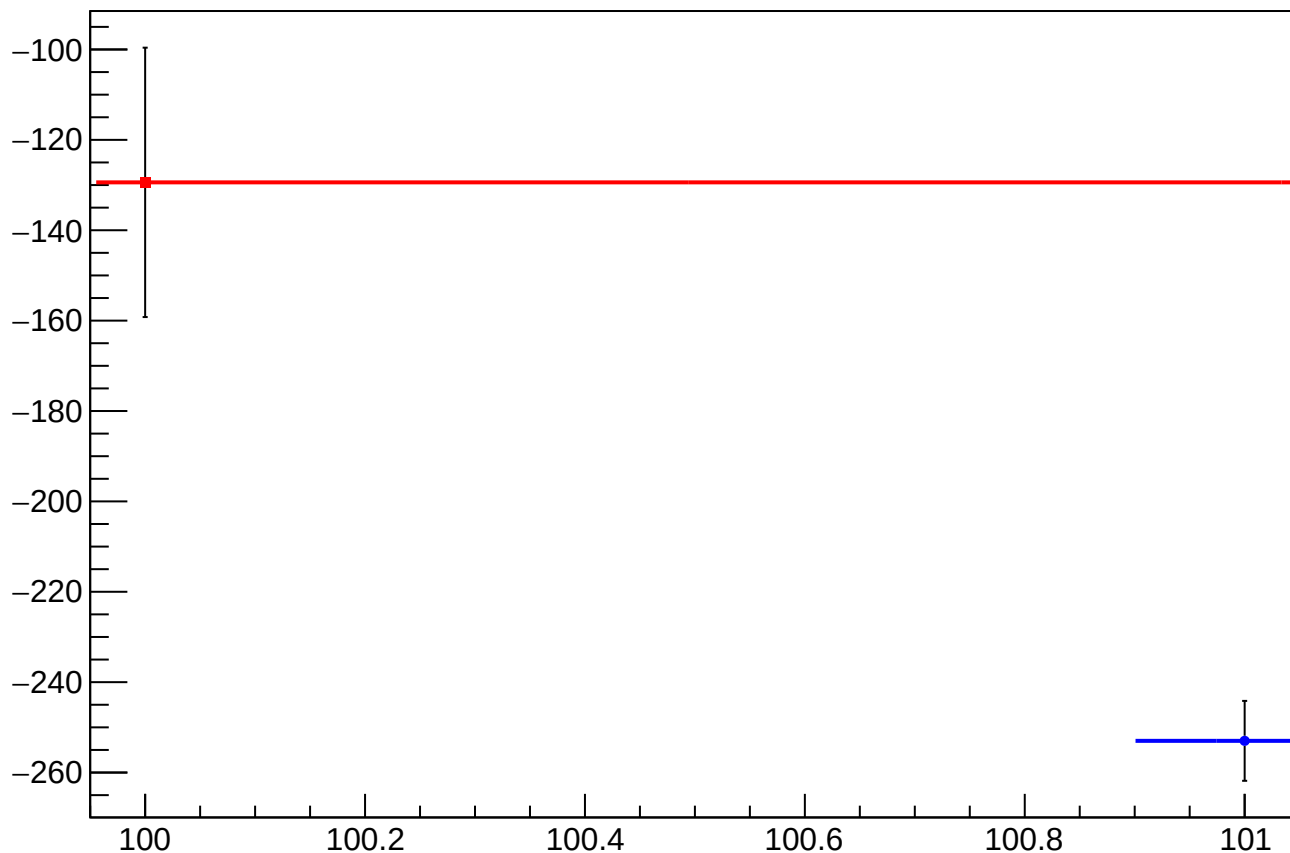
Right: 339.545 $\pm$ 0.512  $\chi^2$ /NDF: 434.2/1

In: 343.566 $\pm$ 0.547  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 339.545 $\pm$ 0.512  $\chi^2$ /NDF: 434.2/1

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -252.987+/-8.840  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -129.405+/-29.804  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

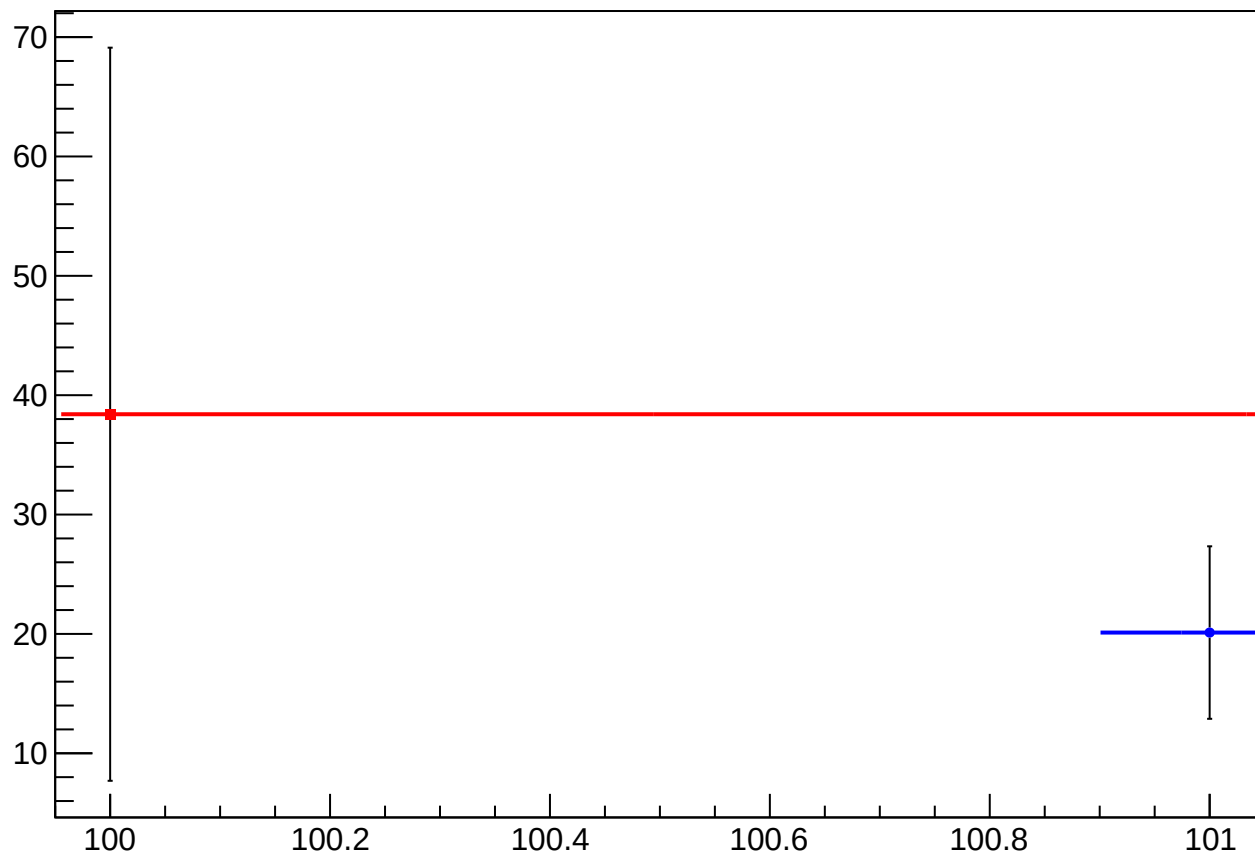
Right: -242.994+/-8.475  $\chi^2/\text{NDF}$ : 15.8/1

In: -252.987+/-8.840  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -242.994+/-8.475  $\chi^2/\text{NDF}$ : 15.8/1

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 20.113+/-7.226  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 38.405+/-30.710  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 21.073+/-7.034  $\chi^2/\text{NDF}$ : 0.3/1

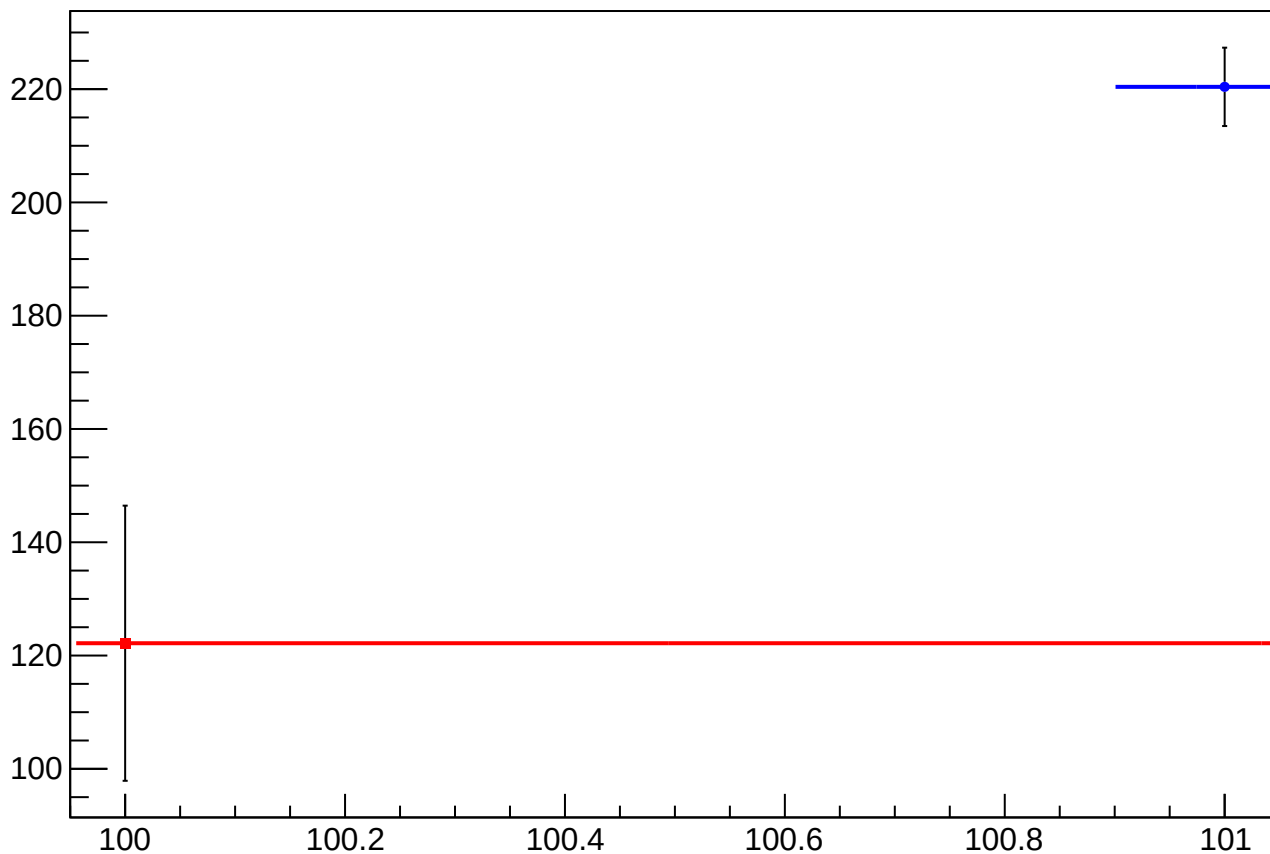
In: 20.113+/-7.226  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.073+/-7.034  $\chi^2/\text{NDF}$ : 0.3/1



reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 220.402 $\pm$ 6.918  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 122.176 $\pm$ 24.289  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

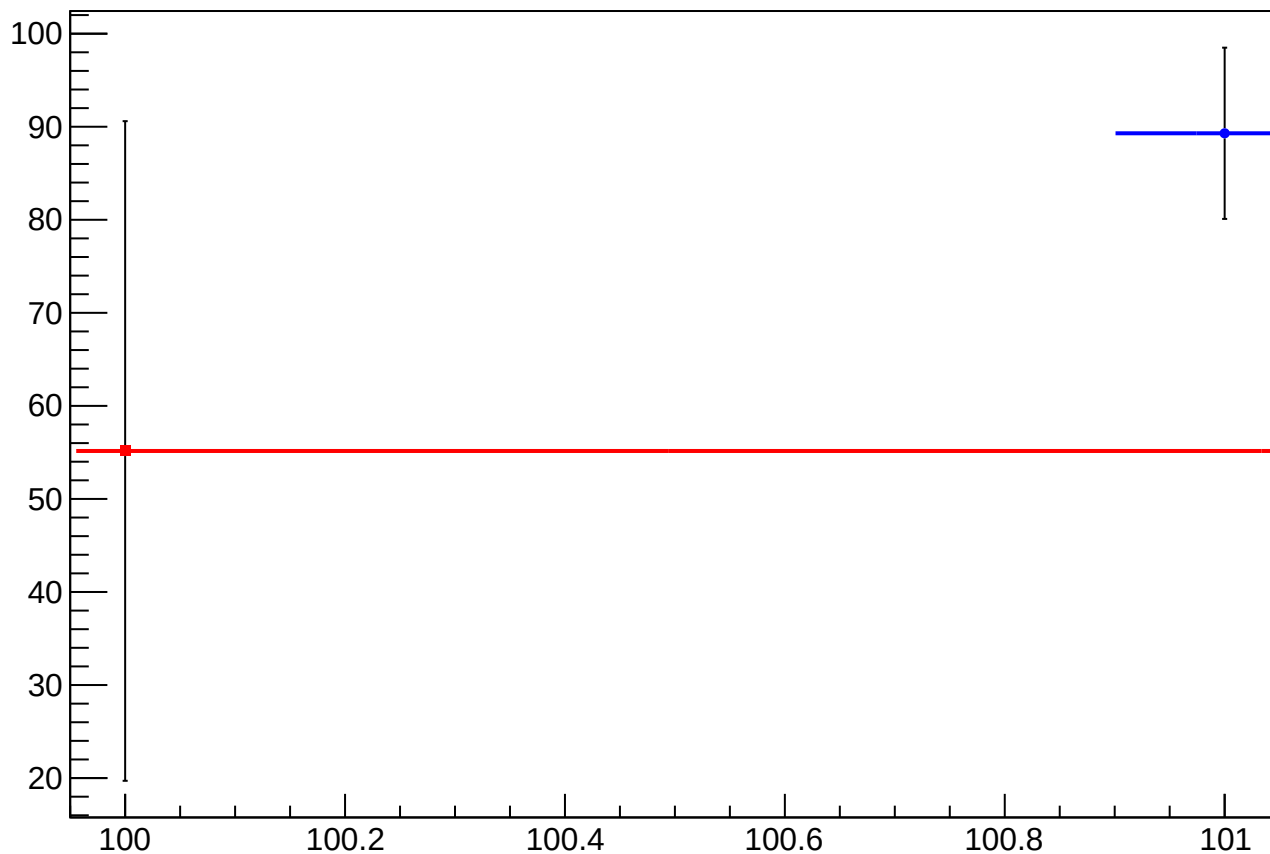
Right: 213.032 $\pm$ 6.653  $\chi^2$ /NDF: 15.1/1

In: 220.402 $\pm$ 6.918  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 213.032 $\pm$ 6.653  $\chi^2$ /NDF: 15.1/1

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 89.295+/-9.202  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 55.154+/-35.446  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

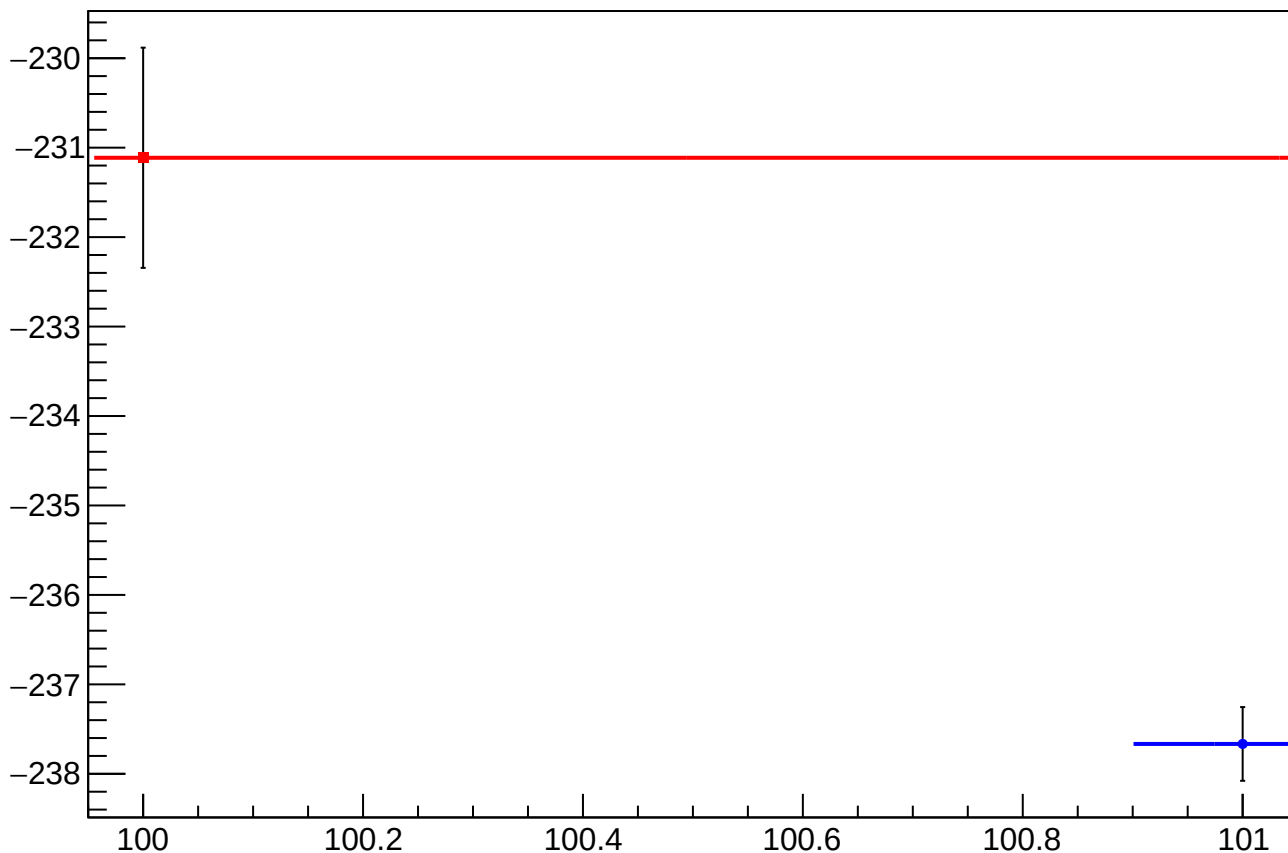
Right: 87.140+/-8.907  $\chi^2/\text{NDF}$ : 0.9/1

In: 89.295+/-9.202  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 87.140+/-8.907  $\chi^2/\text{NDF}$ : 0.9/1

reg\_asym\_us\_avg\_atlr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -237.666+/-0.412  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -231.113+/-1.231  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

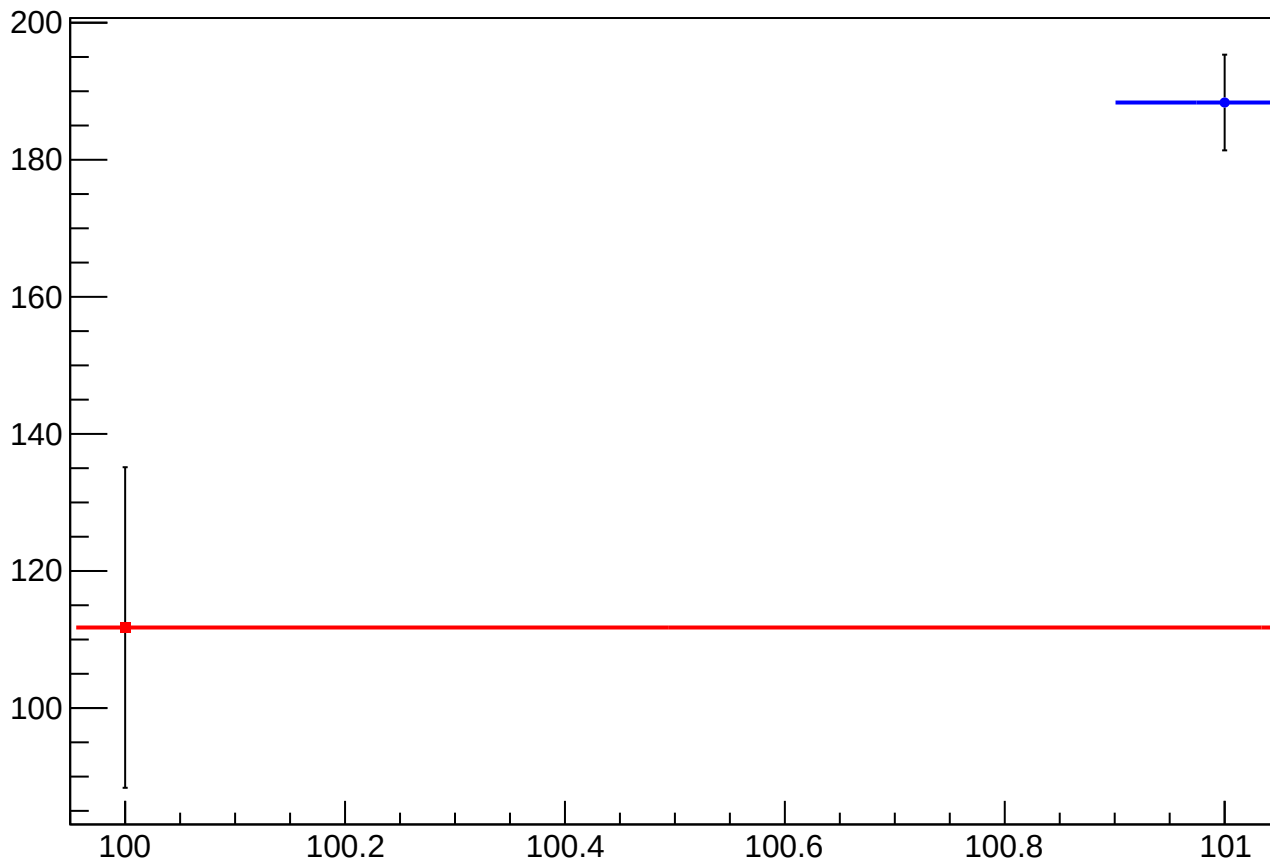
Right: -237.006+/-0.391  $\chi^2$ /NDF: 25.5/1

In: -237.666+/-0.412  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -237.006+/-0.391  $\chi^2$ /NDF: 25.5/1

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 188.355 $\pm$ 6.981  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 111.754 $\pm$ 23.389  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

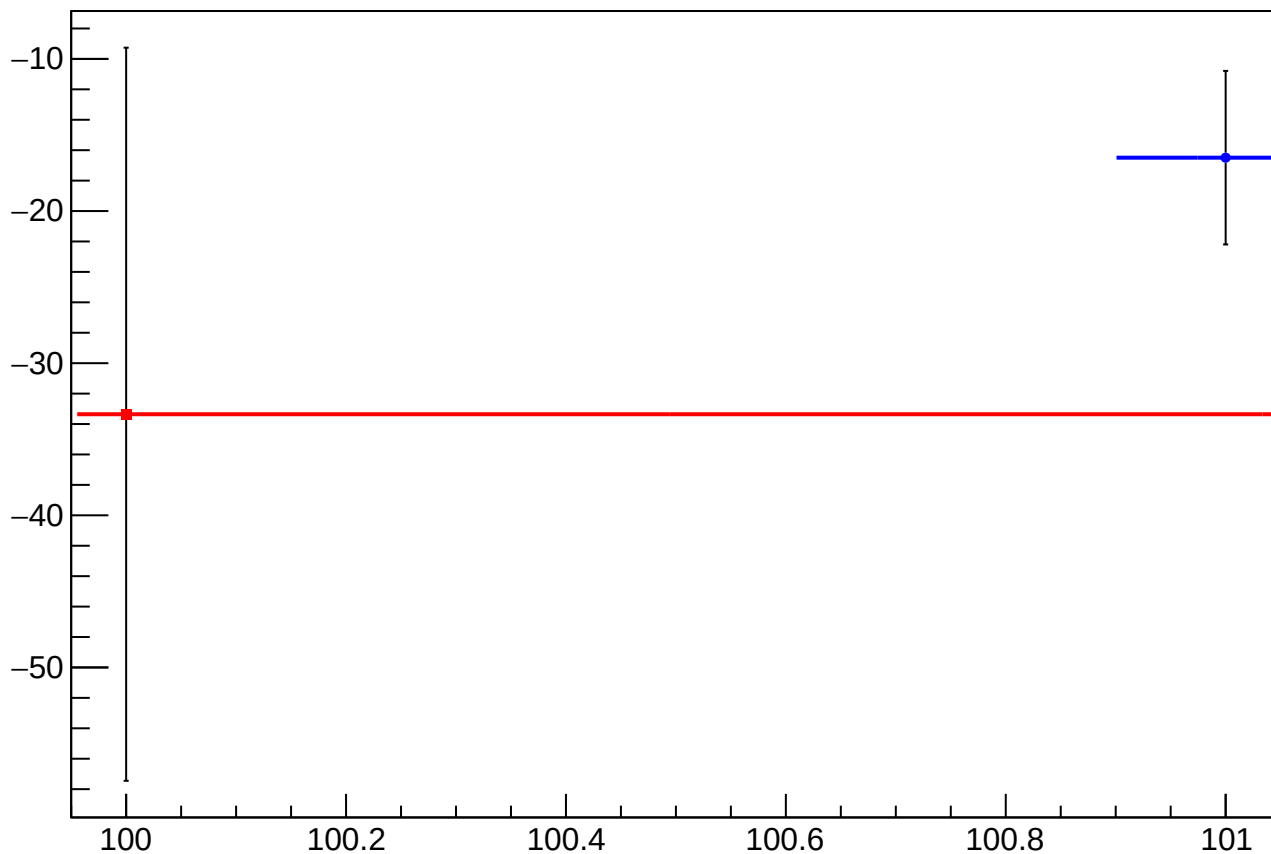
Right: 182.089 $\pm$ 6.690  $\chi^2$ /NDF: 9.8/1

In: 188.355 $\pm$ 6.981  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 182.089 $\pm$ 6.690  $\chi^2$ /NDF: 9.8/1

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -16.492 $\pm$ 5.704  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -33.356 $\pm$ 24.095  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

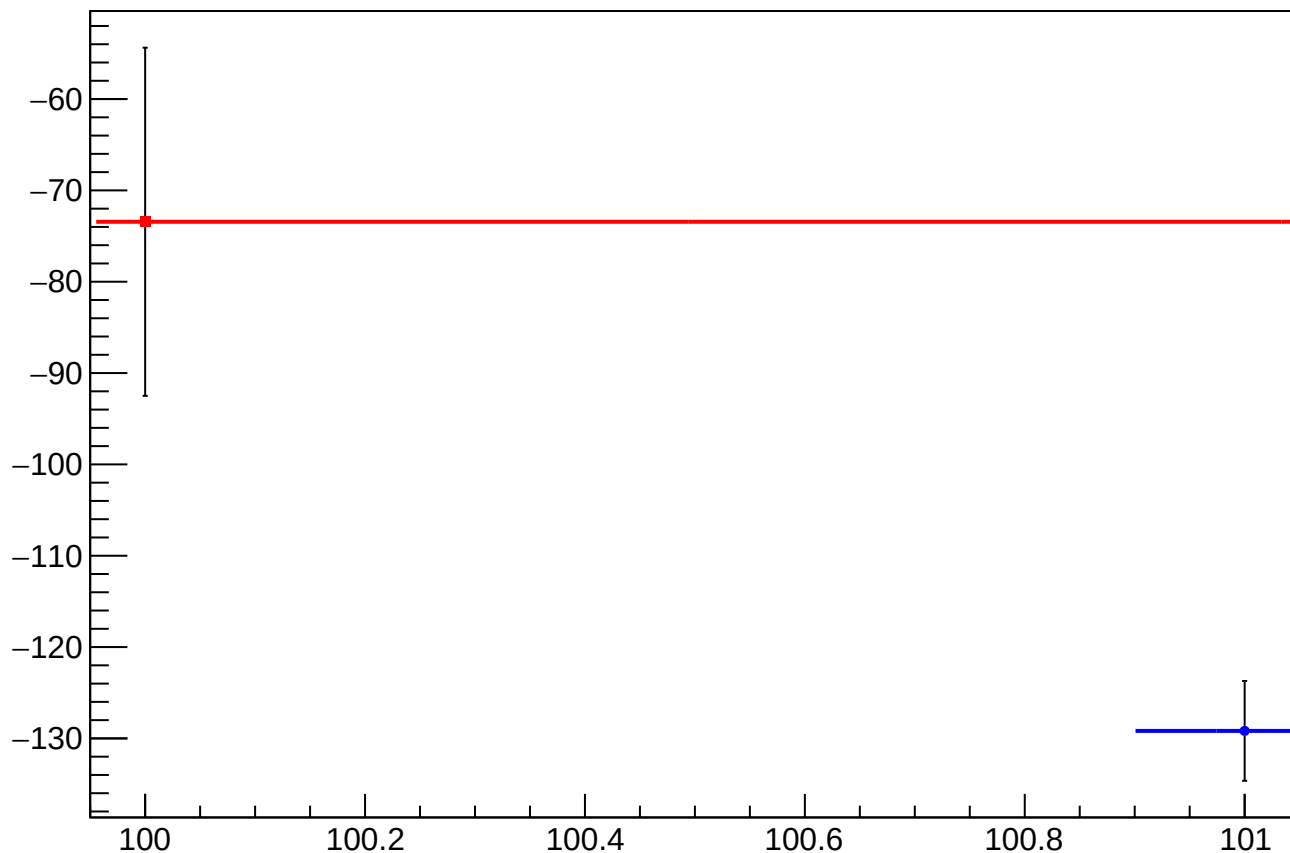
Right: -17.387 $\pm$ 5.551  $\chi^2$ /NDF: 0.5/1

In: -16.492 $\pm$ 5.704  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -17.387 $\pm$ 5.551  $\chi^2$ /NDF: 0.5/1

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -129.178+/-5.463  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -73.435+/-19.060  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

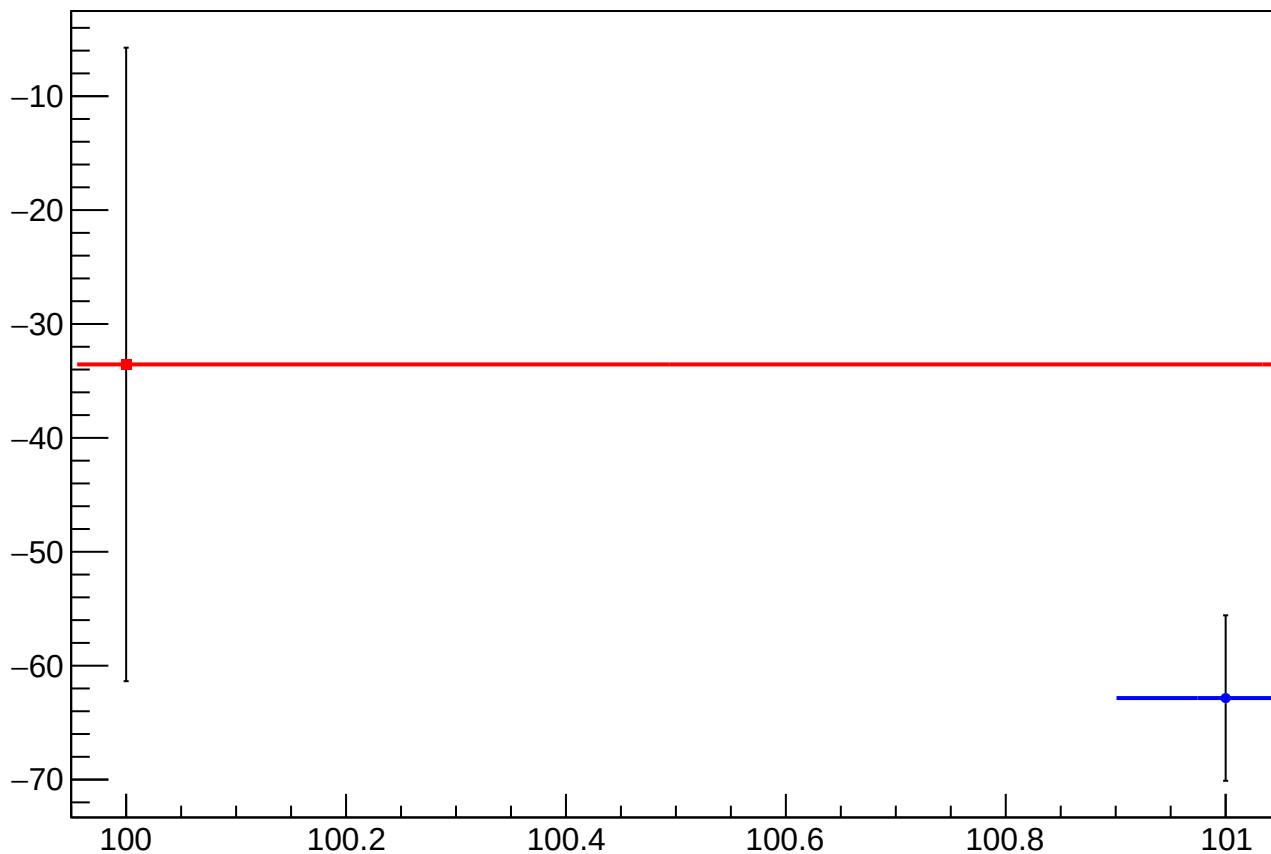
Right: -124.947+/-5.251  $\chi^2/\text{NDF}$ : 7.9/1

In: -129.178+/-5.463  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -124.947+/-5.251  $\chi^2/\text{NDF}$ : 7.9/1

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -62.843 $\pm$ 7.263  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -33.551 $\pm$ 27.811  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

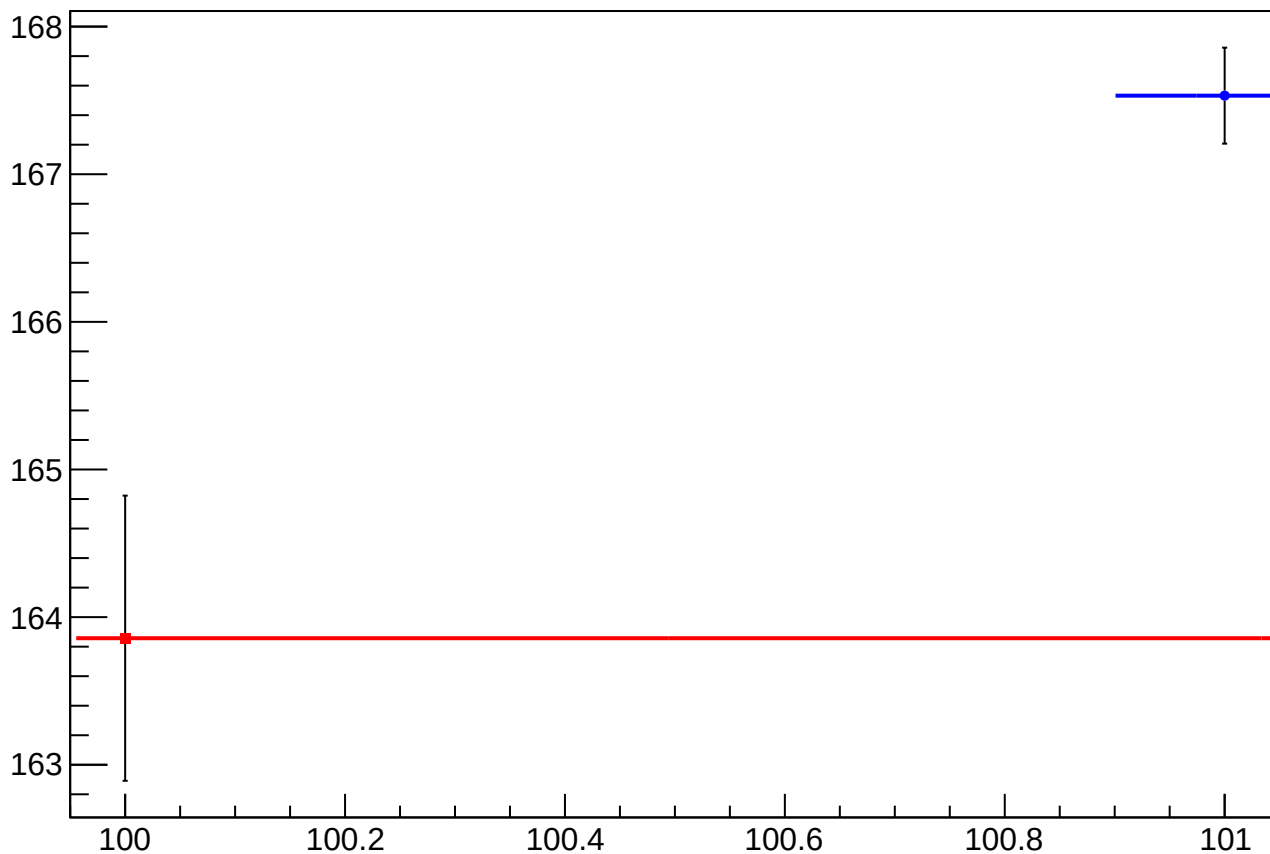
Right: -60.973 $\pm$ 7.027  $\chi^2$ /NDF: 1.0/1

In: -62.843 $\pm$ 7.263  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -60.973 $\pm$ 7.027  $\chi^2$ /NDF: 1.0/1

reg\_asym\_us\_avg\_atlr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 167.532 $\pm$ 0.325  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 163.857 $\pm$ 0.966  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 167.158 $\pm$ 0.308  $\chi^2$ /NDF: 13.0/1

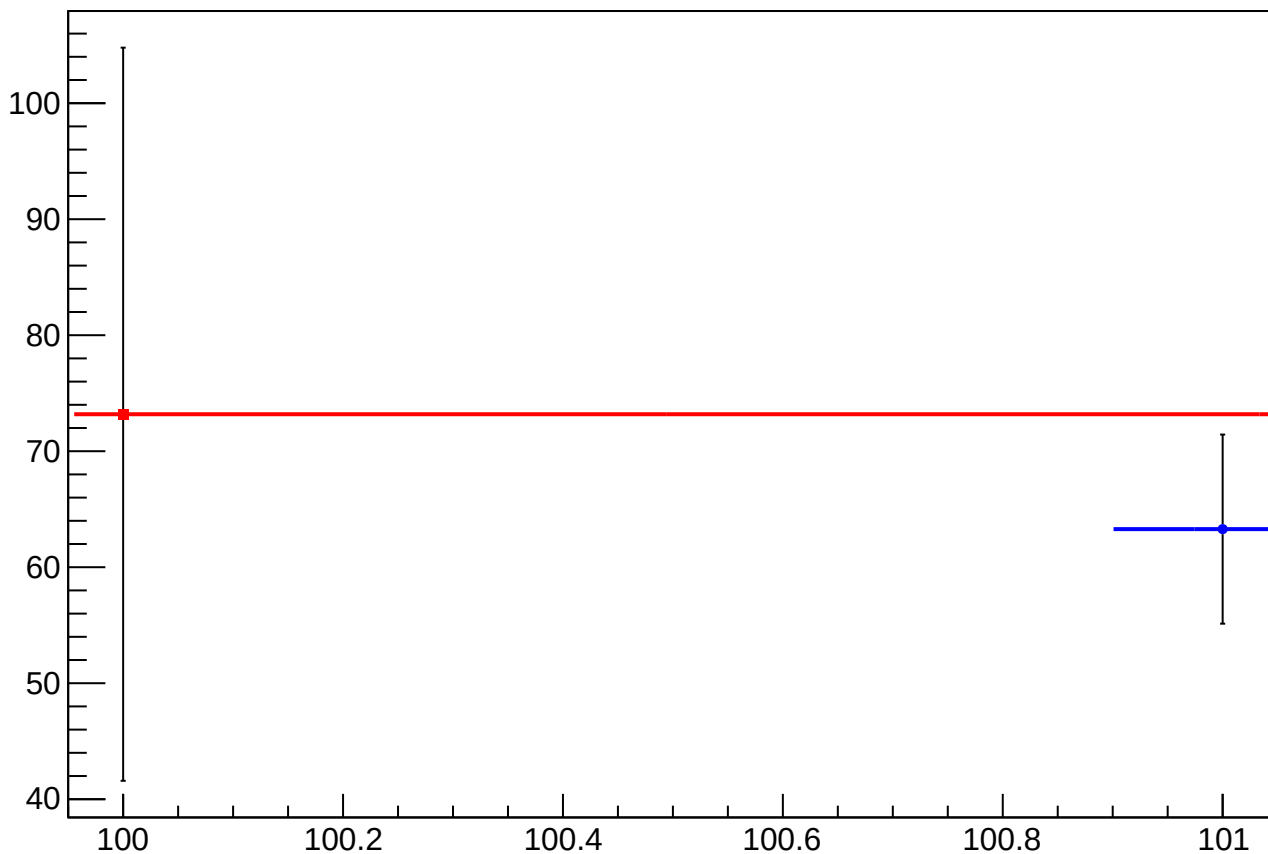
In: 167.532 $\pm$ 0.325  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 167.158 $\pm$ 0.308  $\chi^2$ /NDF: 13.0/1



reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 63.284 $\pm$ 8.151  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 73.187 $\pm$ 31.600  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

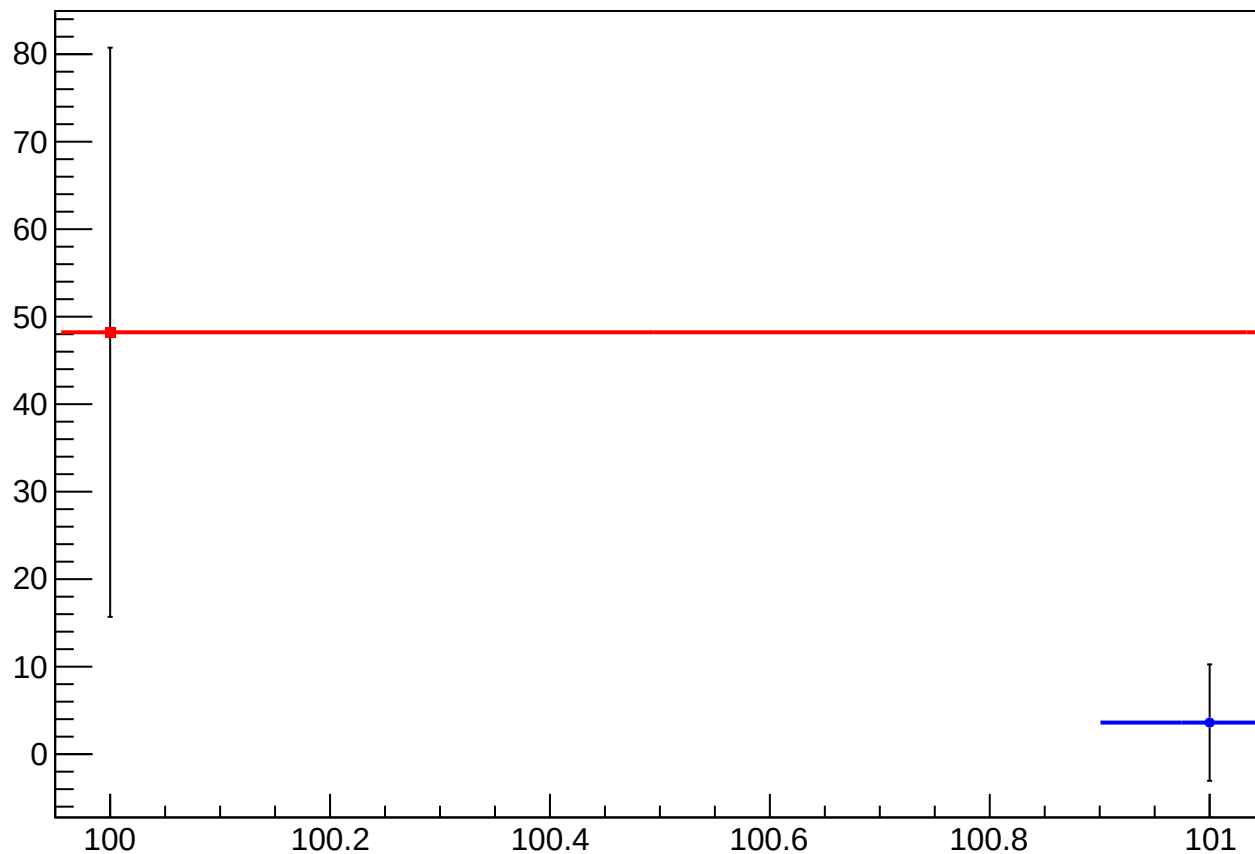
Right: 63.902 $\pm$ 7.893  $\chi^2$ /NDF: 0.1/1

In: 63.284 $\pm$ 8.151  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 63.902 $\pm$ 7.893  $\chi^2$ /NDF: 0.1/1

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.609+/-6.653  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 48.217+/-32.528  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

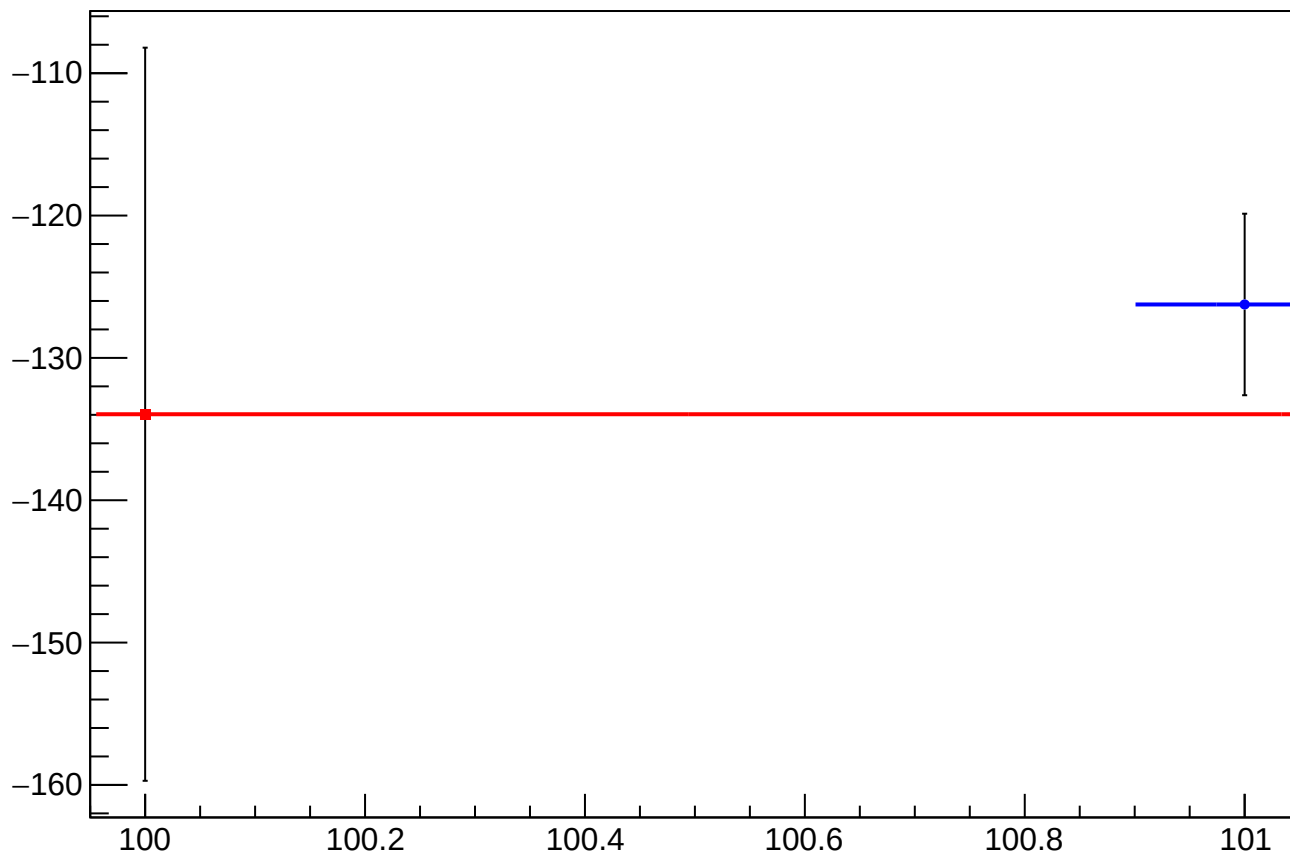
Right: 5.400+/-6.518  $\chi^2/\text{NDF}$ : 1.8/1

In: 3.609+/-6.653  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.400+/-6.518  $\chi^2/\text{NDF}$ : 1.8/1

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -126.246+/-6.376  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -133.958+/-25.752  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

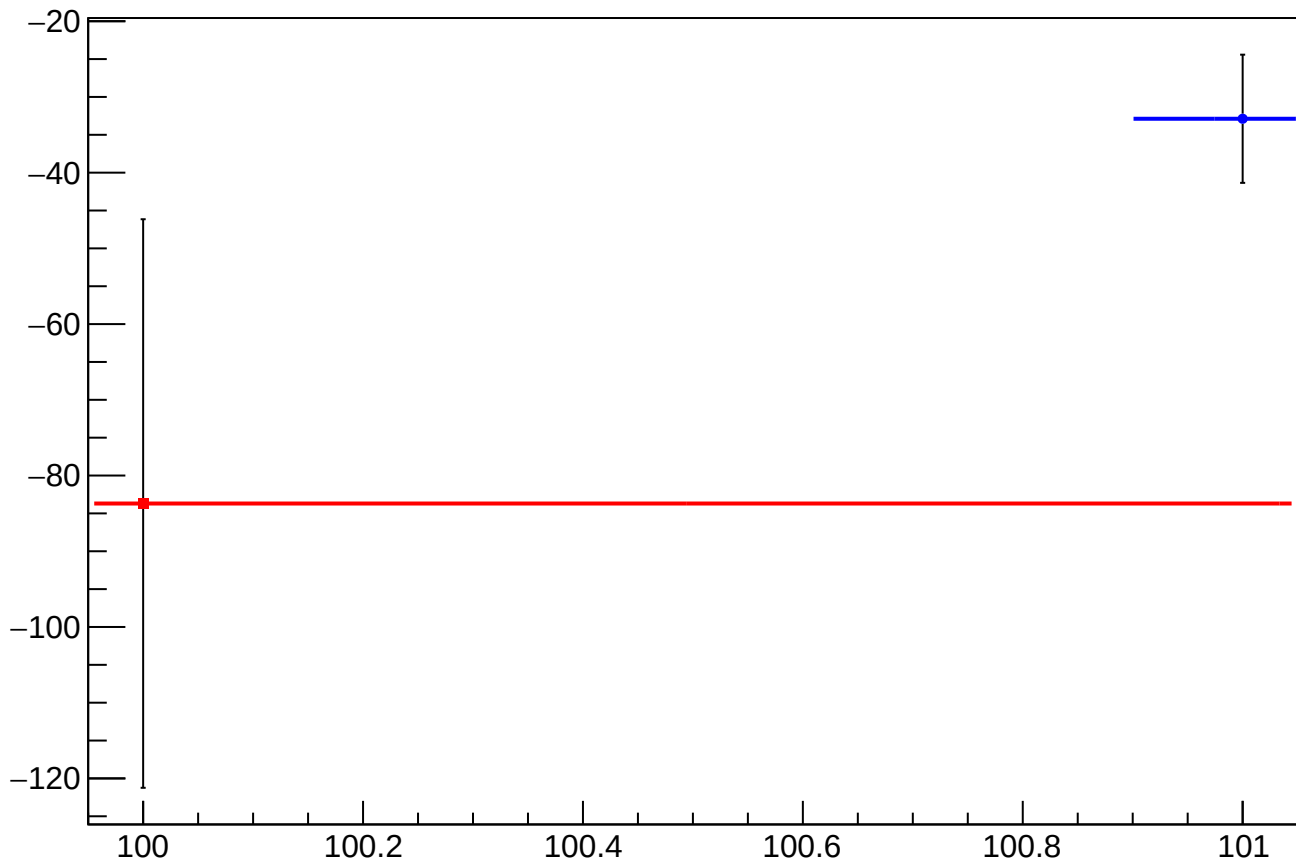
Right: -126.692+/-6.189  $\chi^2$ /NDF: 0.1/1

In: -126.246+/-6.376  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -126.692+/-6.189  $\chi^2$ /NDF: 0.1/1

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -32.882 $\pm$ 8.464  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -83.696 $\pm$ 37.544  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

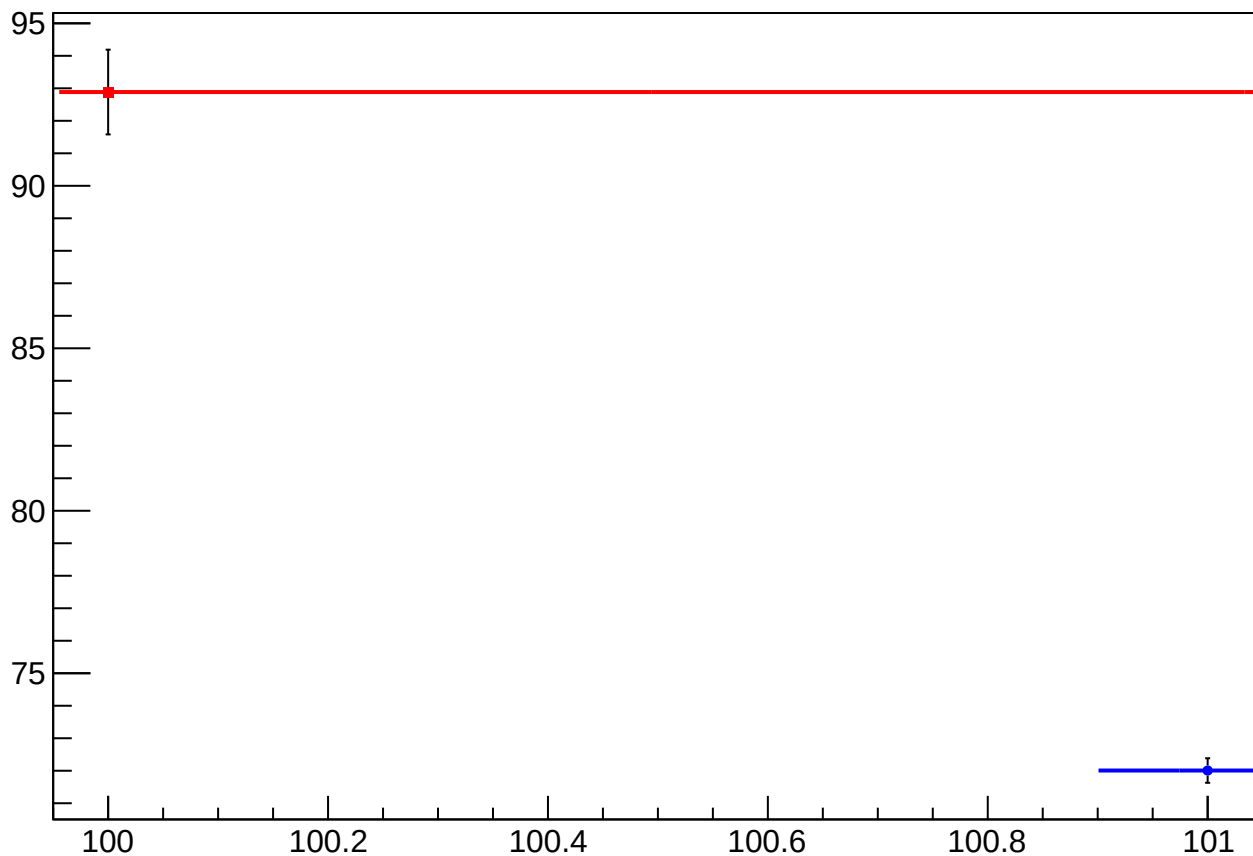
Right: -35.340 $\pm$ 8.257  $\chi^2$ /NDF: 1.7/1

In: -32.882 $\pm$ 8.464  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -35.340 $\pm$ 8.257  $\chi^2$ /NDF: 1.7/1

reg\_asym\_us\_dd\_at1lr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 72.007 $\pm$ 0.378  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 92.885 $\pm$ 1.304  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

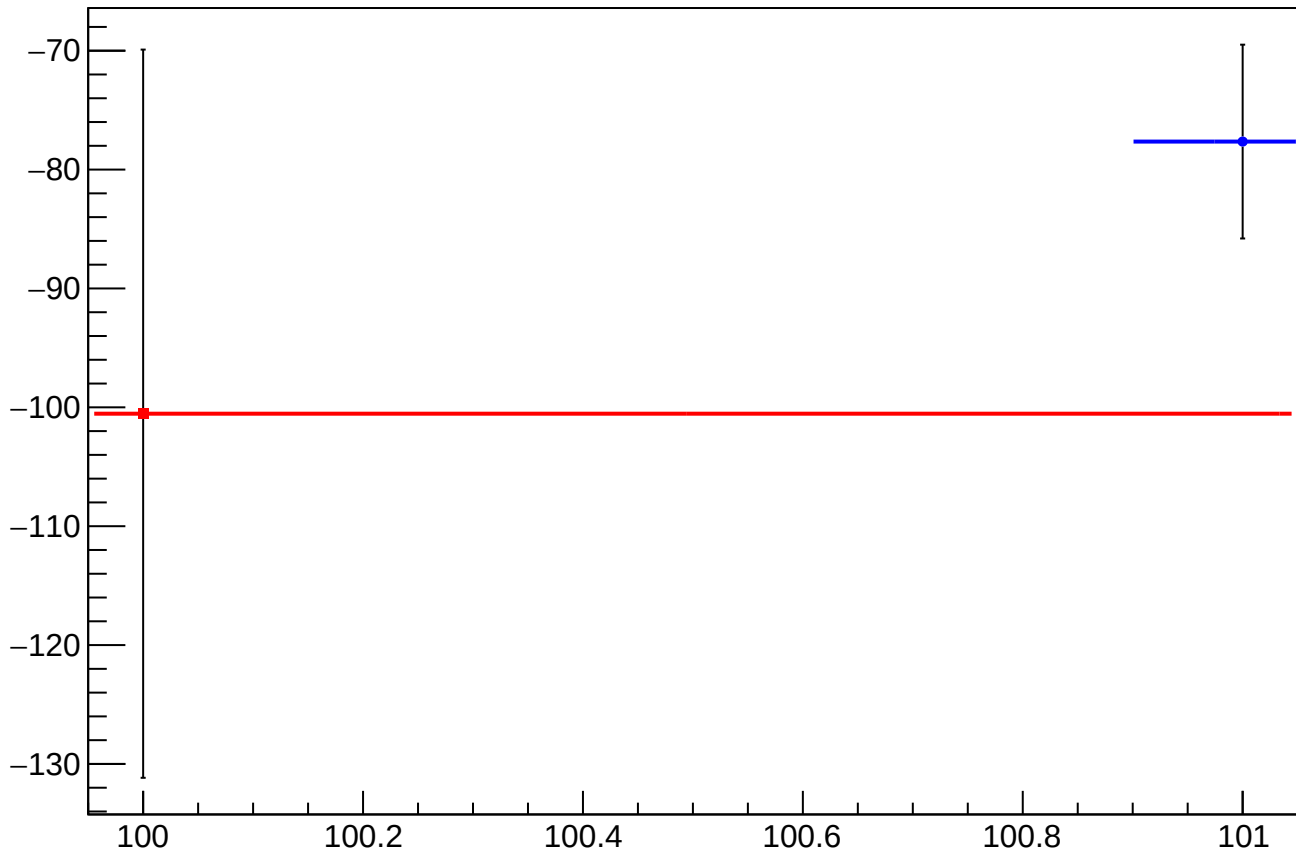
Right: 73.622 $\pm$ 0.363  $\chi^2$ /NDF: 236.6/1

In: 72.007 $\pm$ 0.378  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 73.622 $\pm$ 0.363  $\chi^2$ /NDF: 236.6/1

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -77.644±/-8.152  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -100.536±/-30.630  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

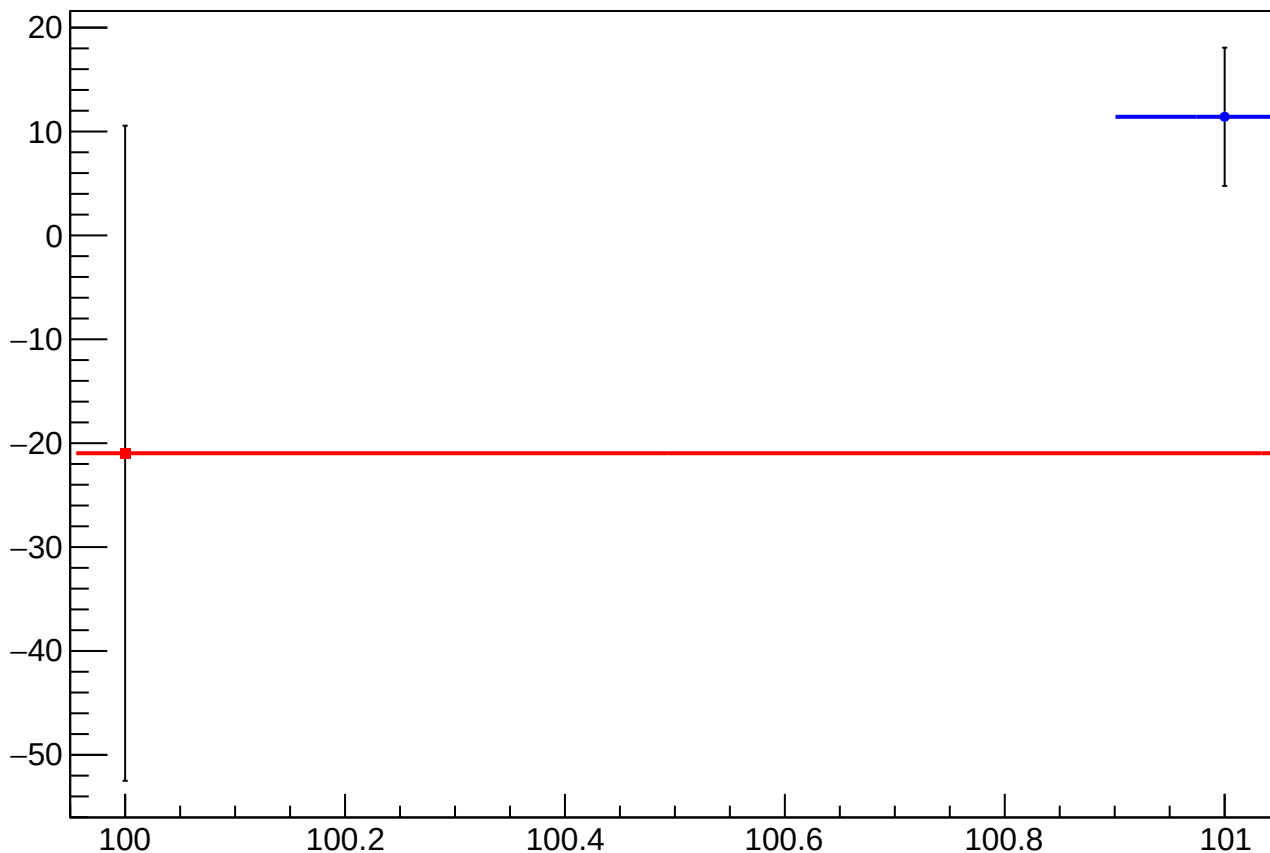
Right: -79.158±/-7.878  $\chi^2$ /NDF: 0.5/1

In: -77.644±/-8.152  $\chi^2$ /NDF:0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

All: -79.158±/-7.878  $\chi^2$ /NDF: 0.5/1

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 11.416+/-6.653  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -20.967+/-31.529  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

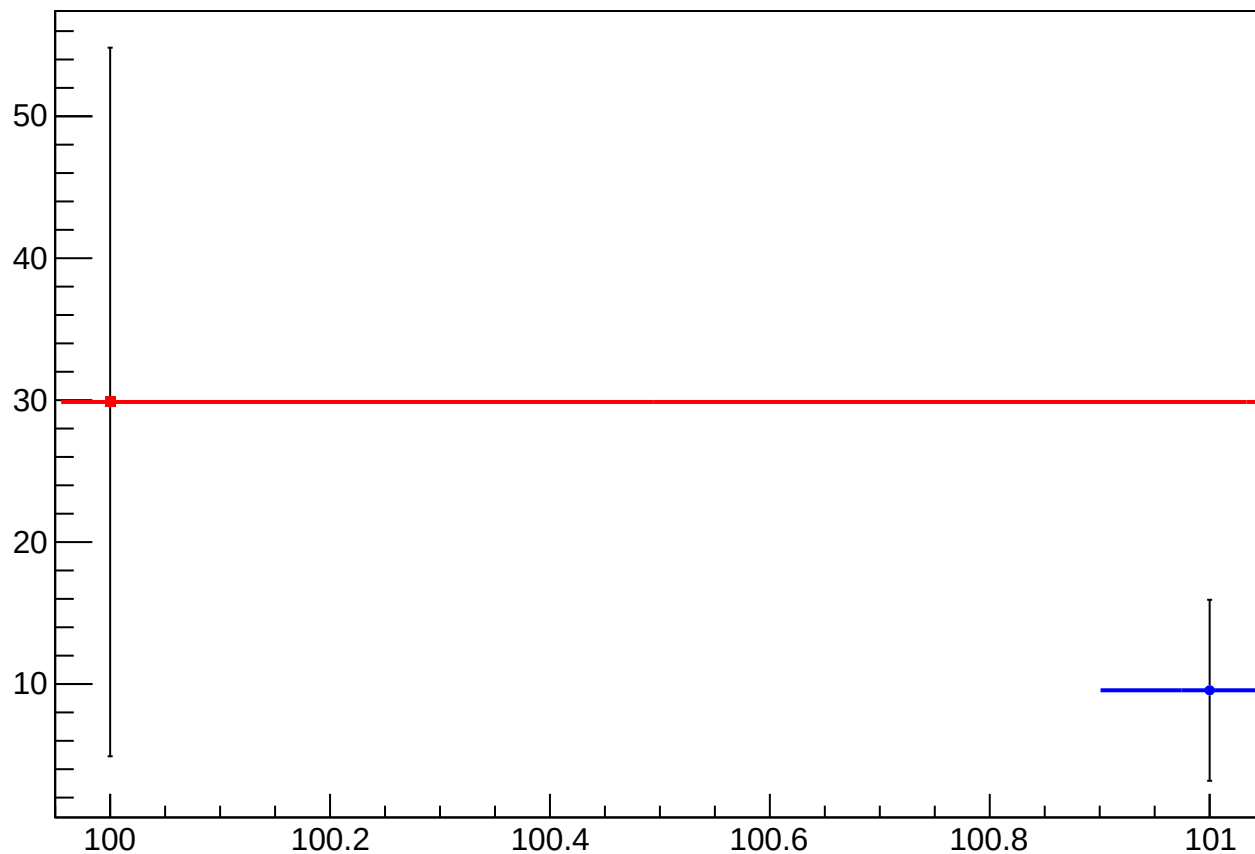
Right: 10.036+/-6.510  $\chi^2/\text{NDF}$ : 1.0/1

In: 11.416+/-6.653  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.036+/-6.510  $\chi^2/\text{NDF}$ : 1.0/1

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 9.560 $\pm$ 6.377  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 29.872 $\pm$ 24.962  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 10.804 $\pm$ 6.178  $\chi^2$ /NDF: 0.6/1

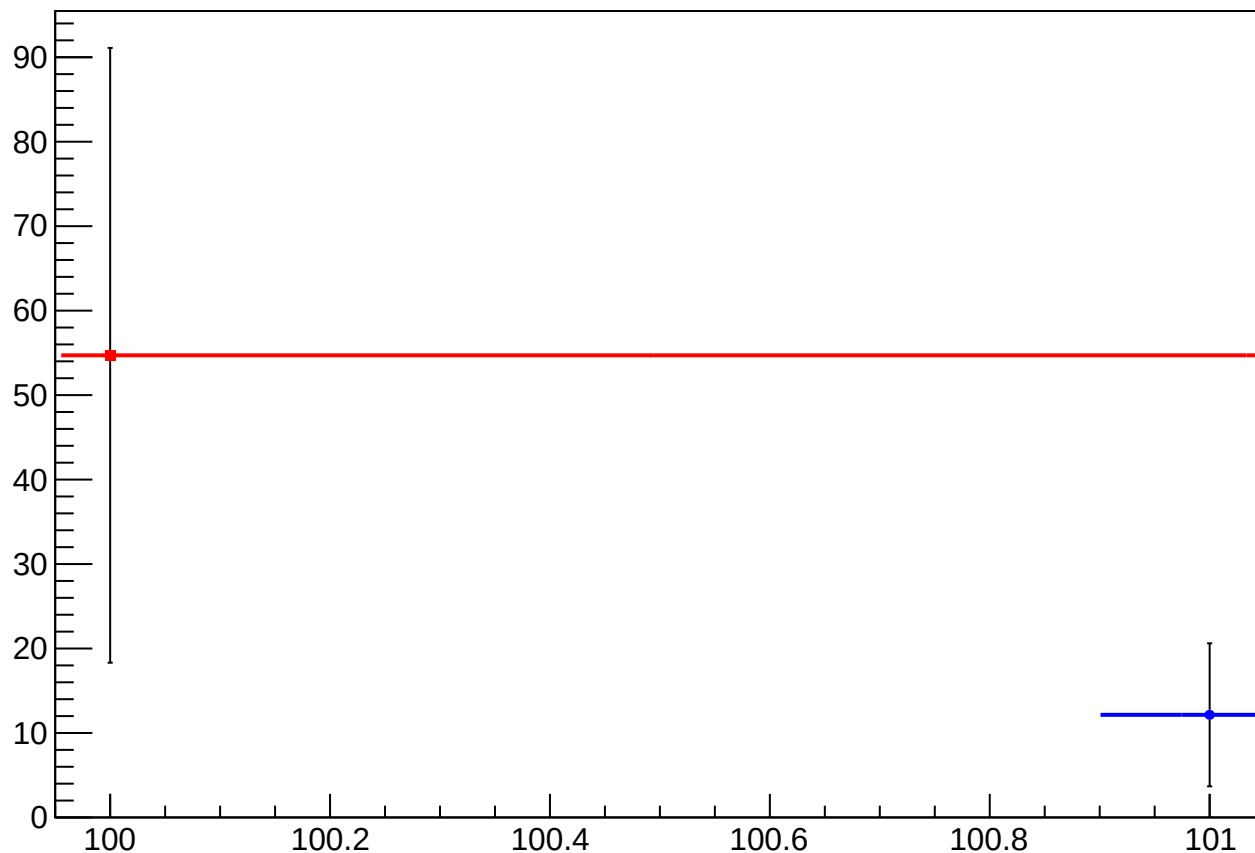
In: 9.560 $\pm$ 6.377  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 10.804 $\pm$ 6.178  $\chi^2$ /NDF: 0.6/1



reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 12.150 $\pm$ 8.465  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 54.711 $\pm$ 36.391  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

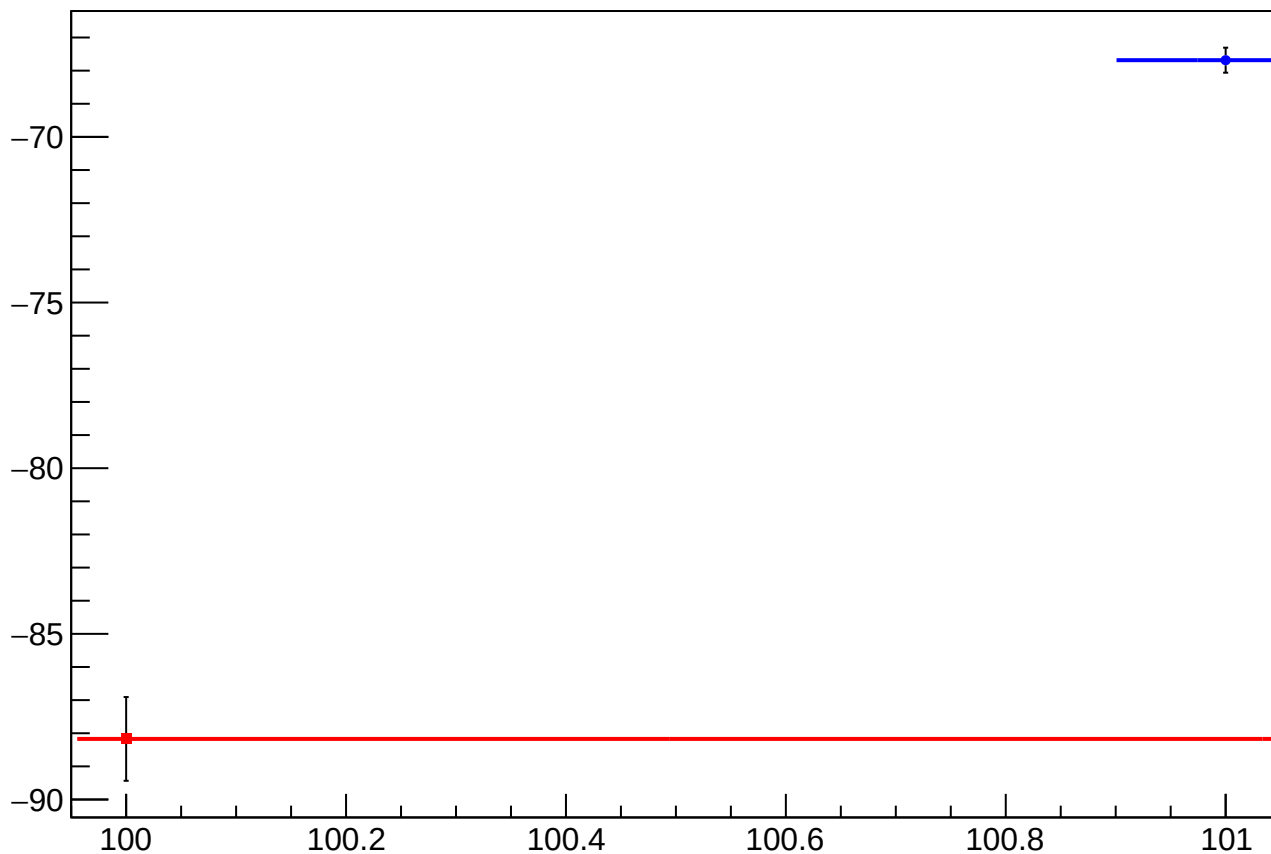
Right: 14.335 $\pm$ 8.245  $\chi^2$ /NDF: 1.3/1

In: 12.150 $\pm$ 8.465  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 14.335 $\pm$ 8.245  $\chi^2$ /NDF: 1.3/1

reg\_asym\_us\_dd\_at1lr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -67.684±/0.378  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -88.171±/1.264  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

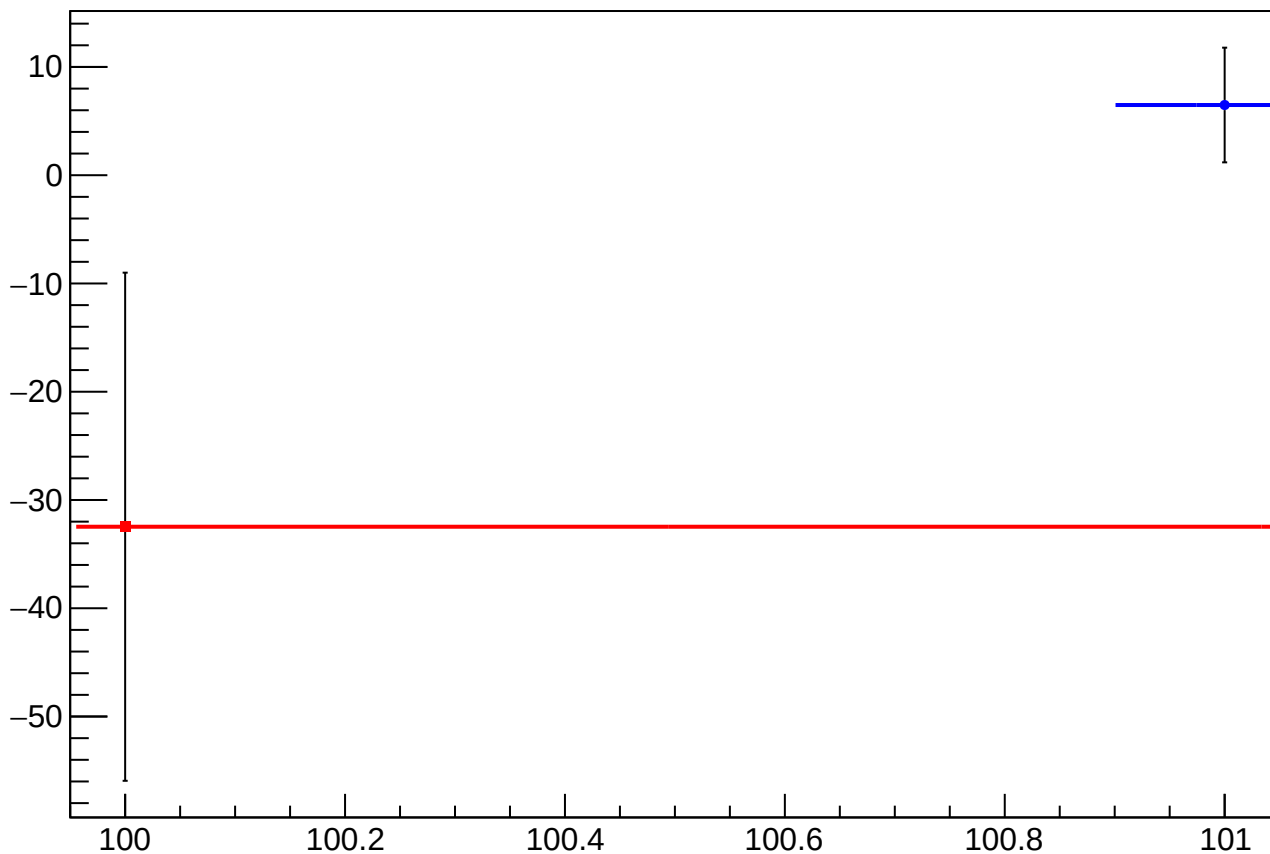
Right: -69.363±/0.362  $\chi^2/\text{NDF}$ : 241.1/1

In: -67.684±/0.378  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -69.363±/0.362  $\chi^2/\text{NDF}$ : 241.1/1

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 6.484+/-5.297  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -32.470+/-23.468  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

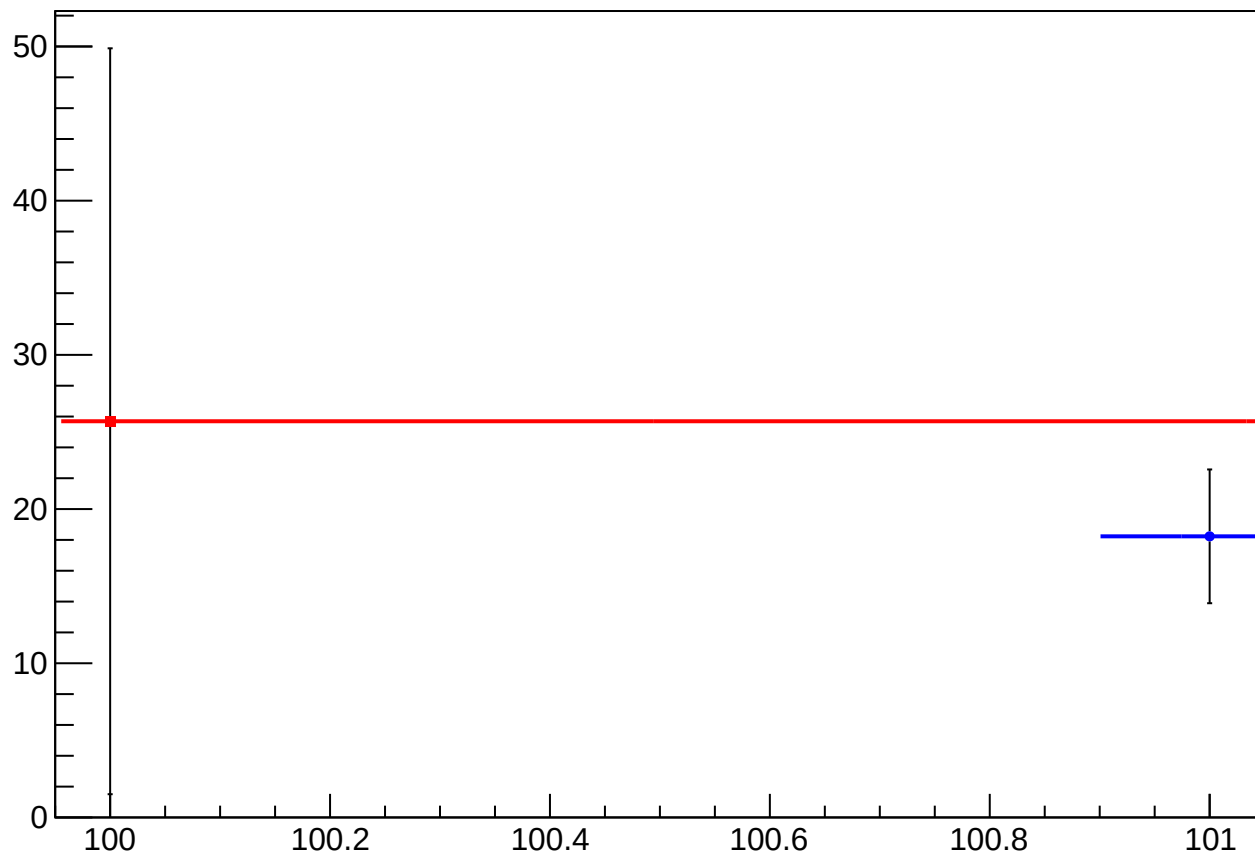
Right: 4.596+/-5.167  $\chi^2/\text{NDF}$ : 2.6/1

In: 6.484+/-5.297  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4.596+/-5.167  $\chi^2/\text{NDF}$ : 2.6/1

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.232+/-4.338  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 25.695+/-24.187  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

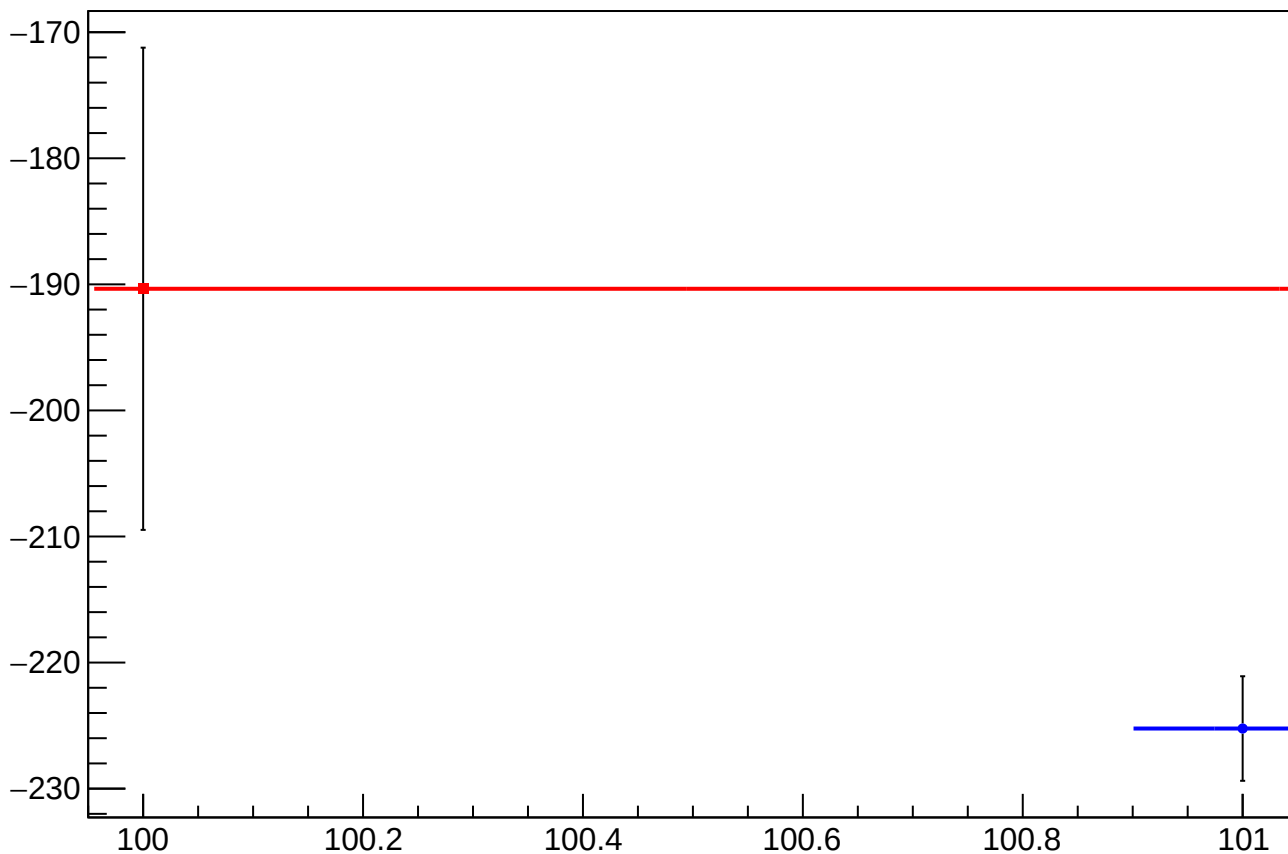
Right: 18.464+/-4.269  $\chi^2/\text{NDF}$ : 0.1/1

In: 18.232+/-4.338  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 18.464+/-4.269  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -225.232+/-4.146  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -190.351+/-19.125  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

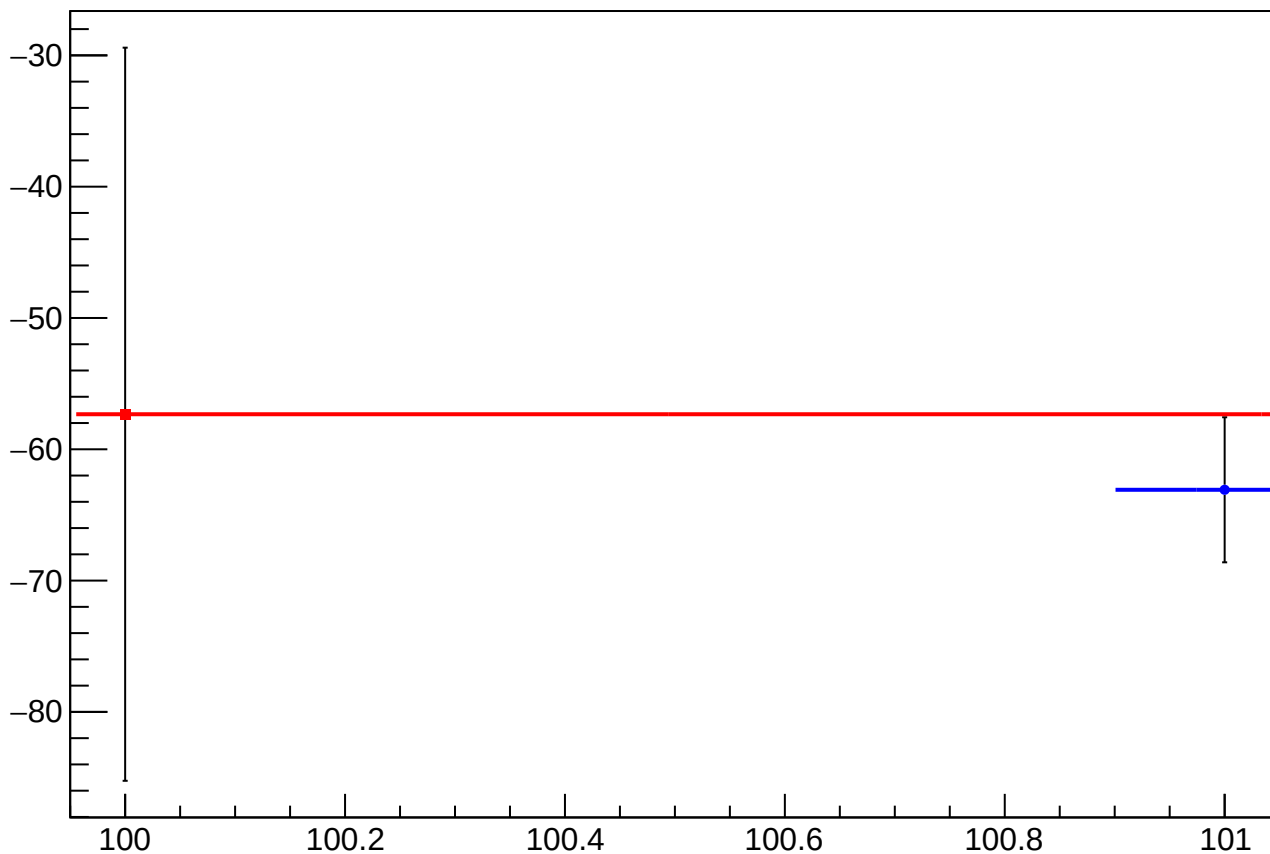
Right: -223.666+/-4.052  $\chi^2/\text{NDF}$ : 3.2/1

In: -225.232+/-4.146  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -223.666+/-4.052  $\chi^2/\text{NDF}$ : 3.2/1

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -63.084 $\pm$ 5.524  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -57.330 $\pm$ 27.917  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

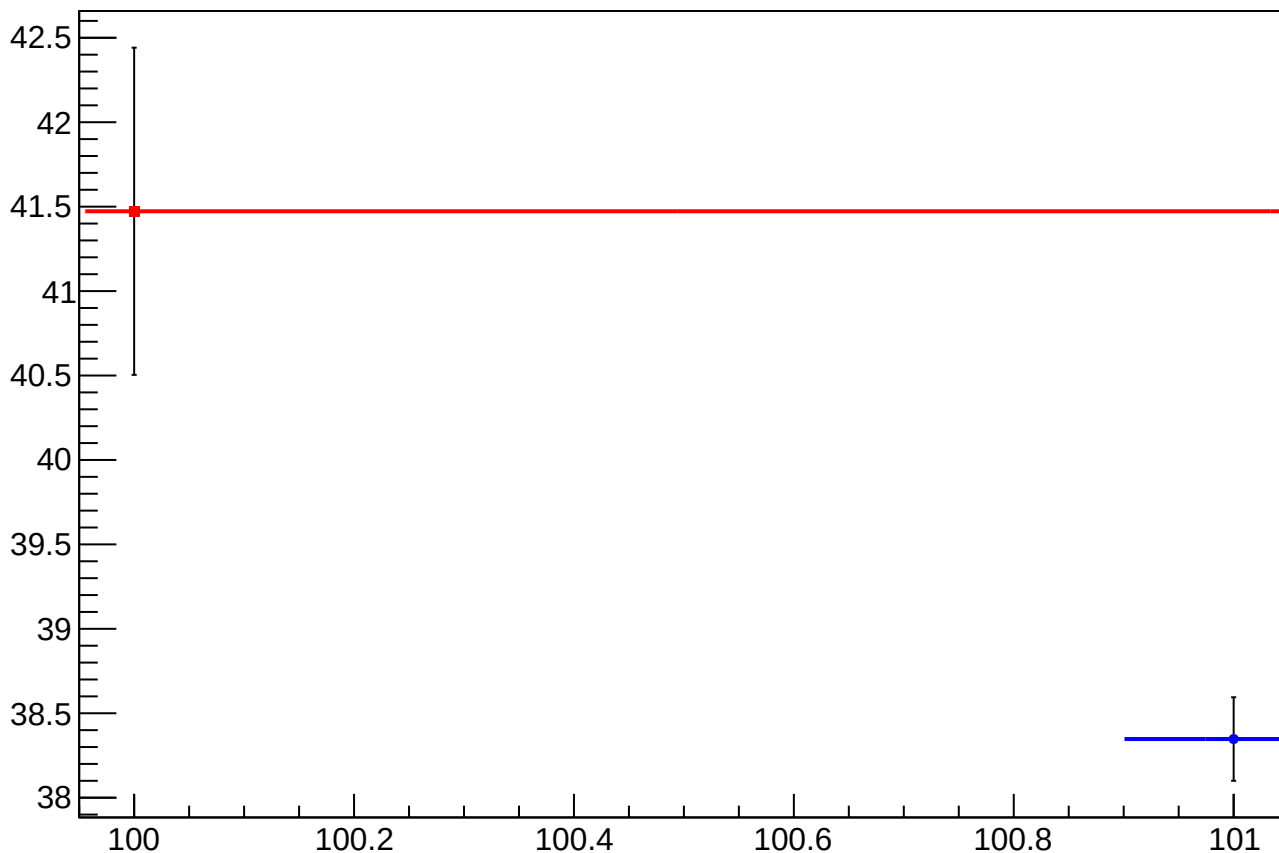
Right: -62.868 $\pm$ 5.419  $\chi^2$ /NDF: 0.0/1

In: -63.084 $\pm$ 5.524  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -62.868 $\pm$ 5.419  $\chi^2$ /NDF: 0.0/1

reg\_asym\_us\_dd\_at2lr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 38.347 $\pm$ 0.247  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 41.473 $\pm$ 0.969  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

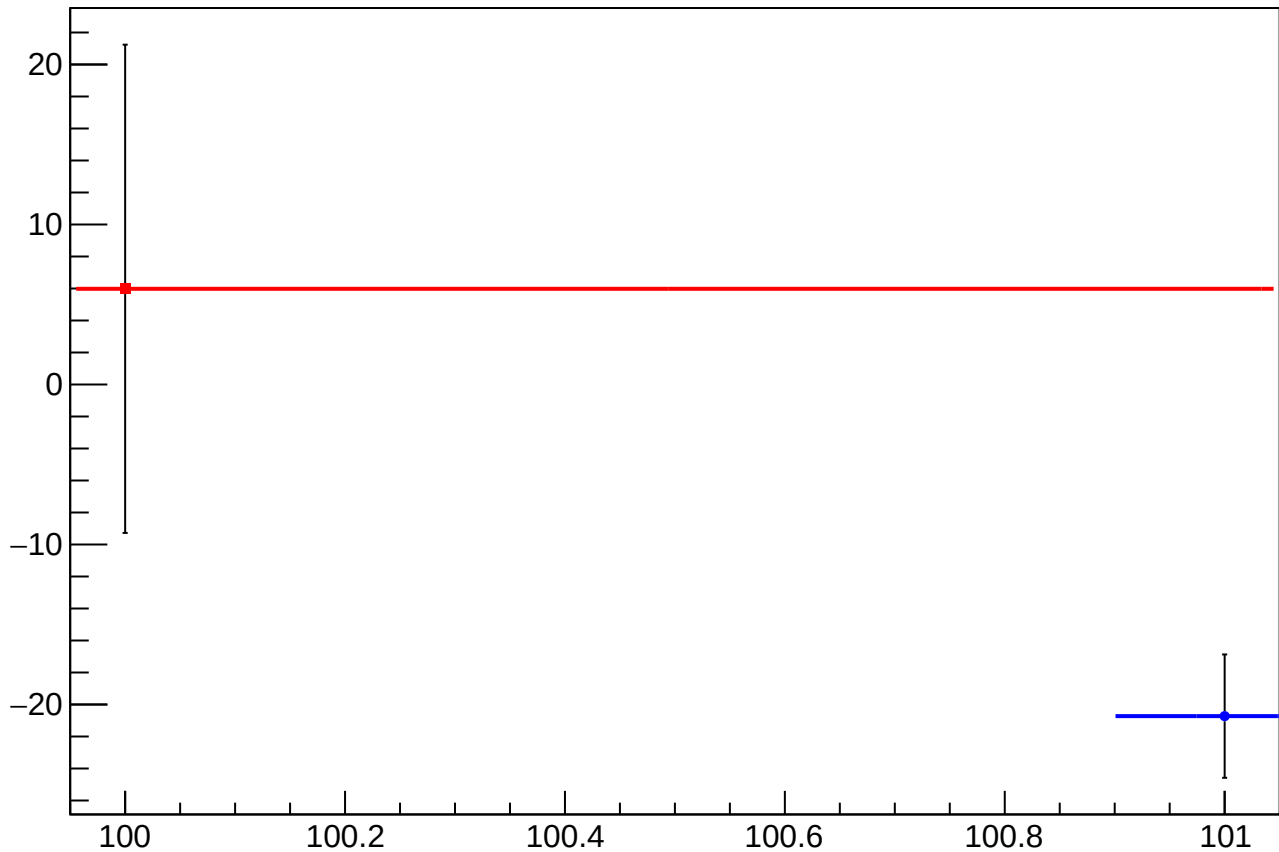
Right: 38.539 $\pm$ 0.240  $\chi^2/\text{NDF}$ : 9.8/1

In: 38.347 $\pm$ 0.247  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 38.539 $\pm$ 0.240  $\chi^2/\text{NDF}$ : 9.8/1

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -20.726 $\pm$ 3.855  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.981 $\pm$ 15.258  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: -19.124 $\pm$ 3.737  $\chi^2$ /NDF: 2.9/1

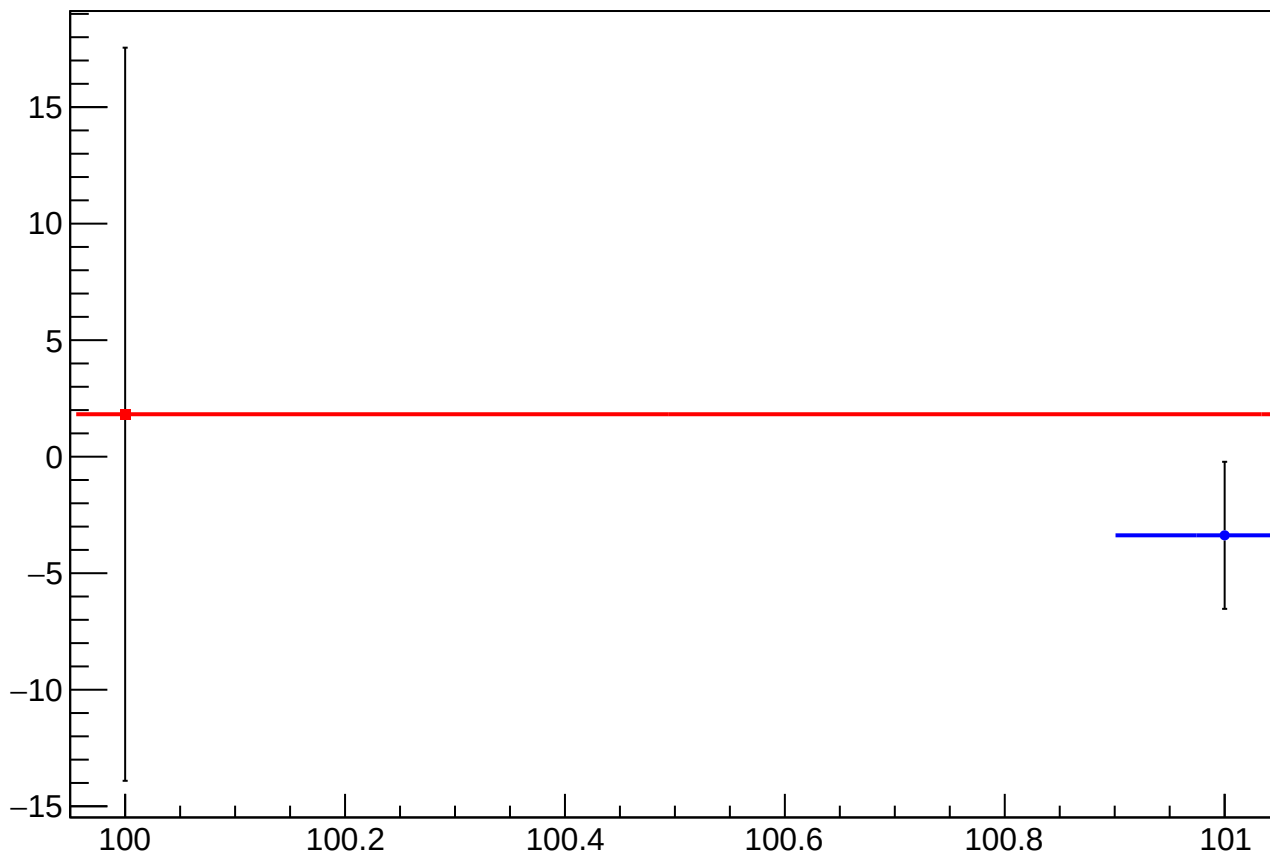
In: -20.726 $\pm$ 3.855  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -19.124 $\pm$ 3.737  $\chi^2$ /NDF: 2.9/1



reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.374+/-3.155  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.822+/-15.729  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

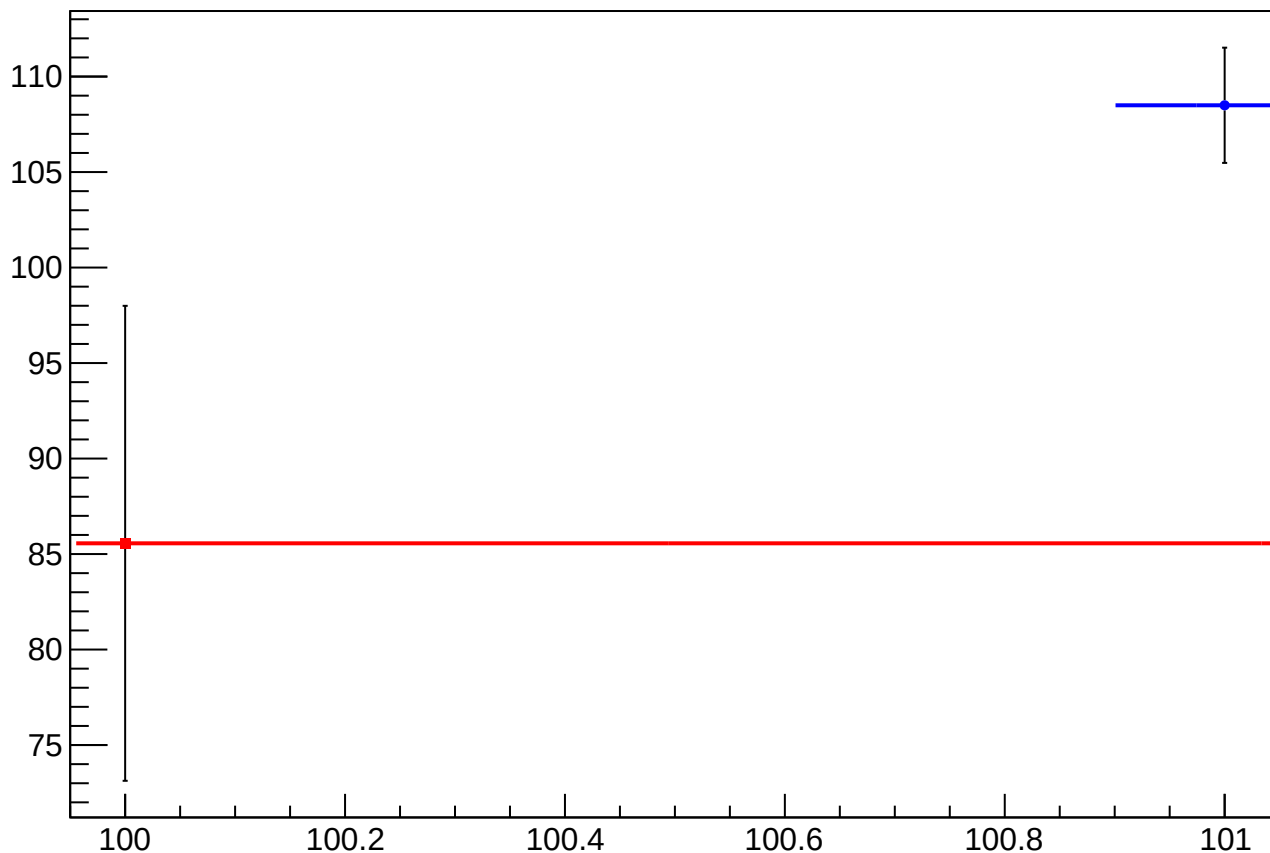
Right: -3.173+/-3.094  $\chi^2/\text{NDF}$ : 0.1/1

In: -3.374+/-3.155  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.173+/-3.094  $\chi^2/\text{NDF}$ : 0.1/1

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 108.496 $\pm$ 3.017  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 85.562 $\pm$ 12.434  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

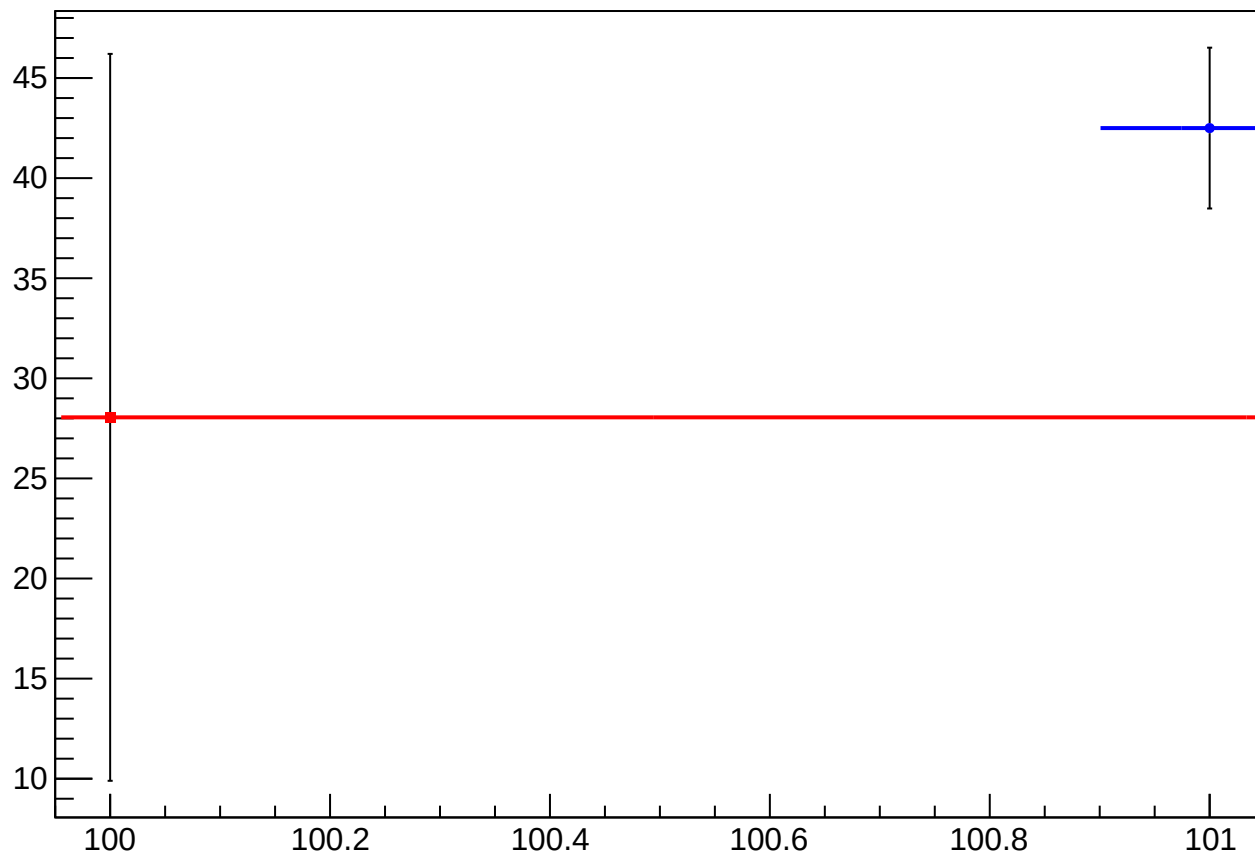
Right: 107.221 $\pm$ 2.932  $\chi^2$ /NDF: 3.2/1

In: 108.496 $\pm$ 3.017  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 107.221 $\pm$ 2.932  $\chi^2$ /NDF: 3.2/1

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 42.500+/-4.017  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 28.051+/-18.155  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

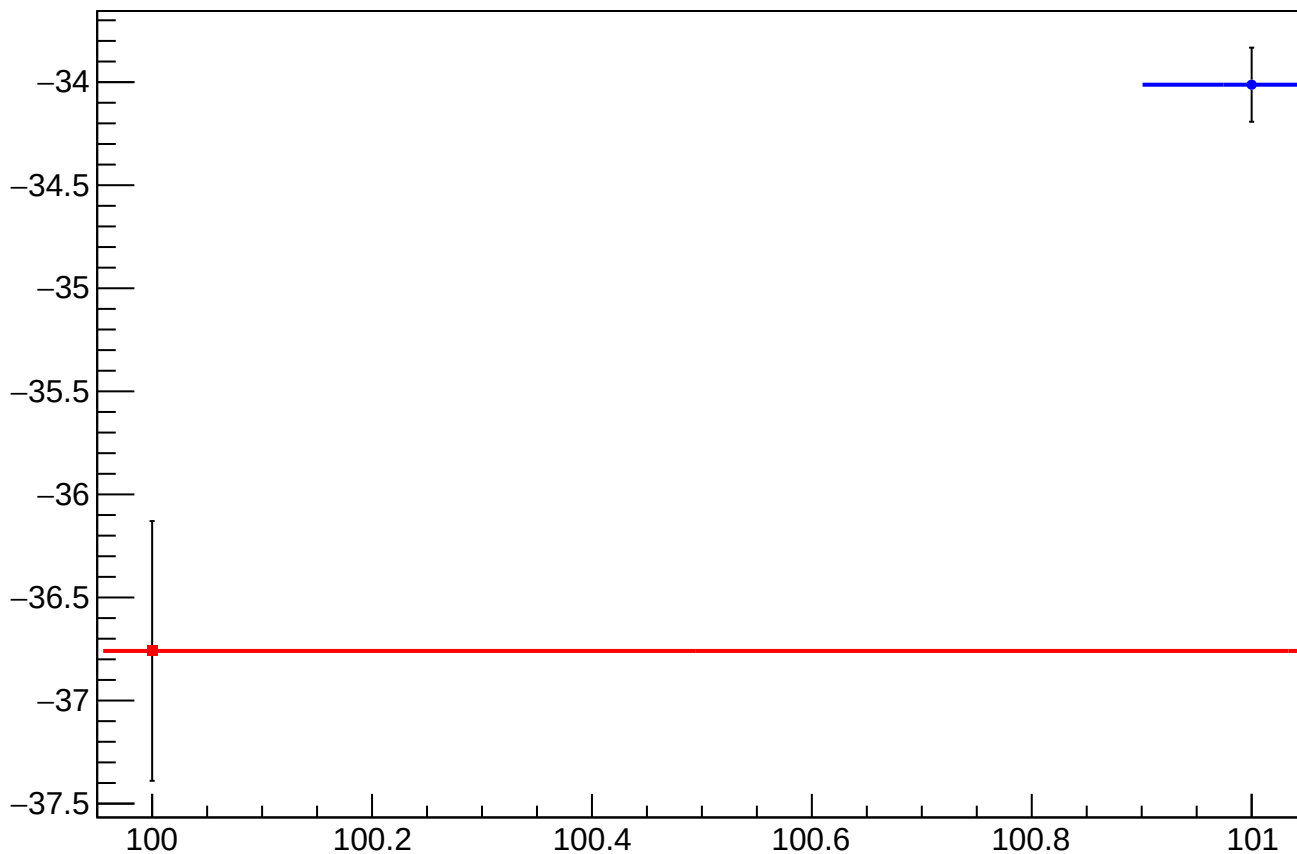
Right: 41.826+/-3.922  $\chi^2/\text{NDF}$ : 0.6/1

In: 42.500+/-4.017  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 41.826+/-3.922  $\chi^2/\text{NDF}$ : 0.6/1

reg\_asym\_us\_dd\_at2lr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -34.012 $\pm$ 0.180  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -36.759 $\pm$ 0.630  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

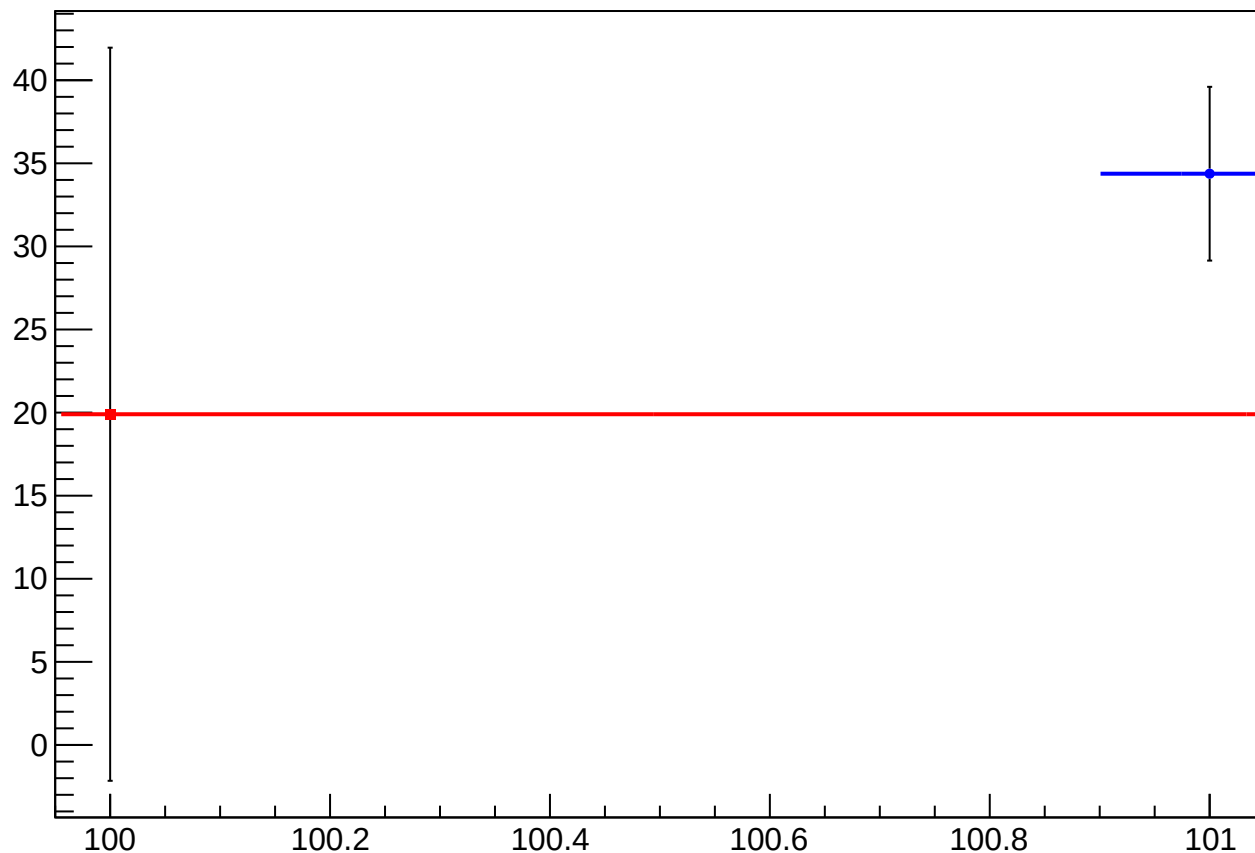
Right: -34.219 $\pm$ 0.173  $\chi^2$ /NDF: 17.6/1

In: -34.012 $\pm$ 0.180  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -34.219 $\pm$ 0.173  $\chi^2$ /NDF: 17.6/1

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 34.375+/-5.228  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 19.901+/-22.058  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

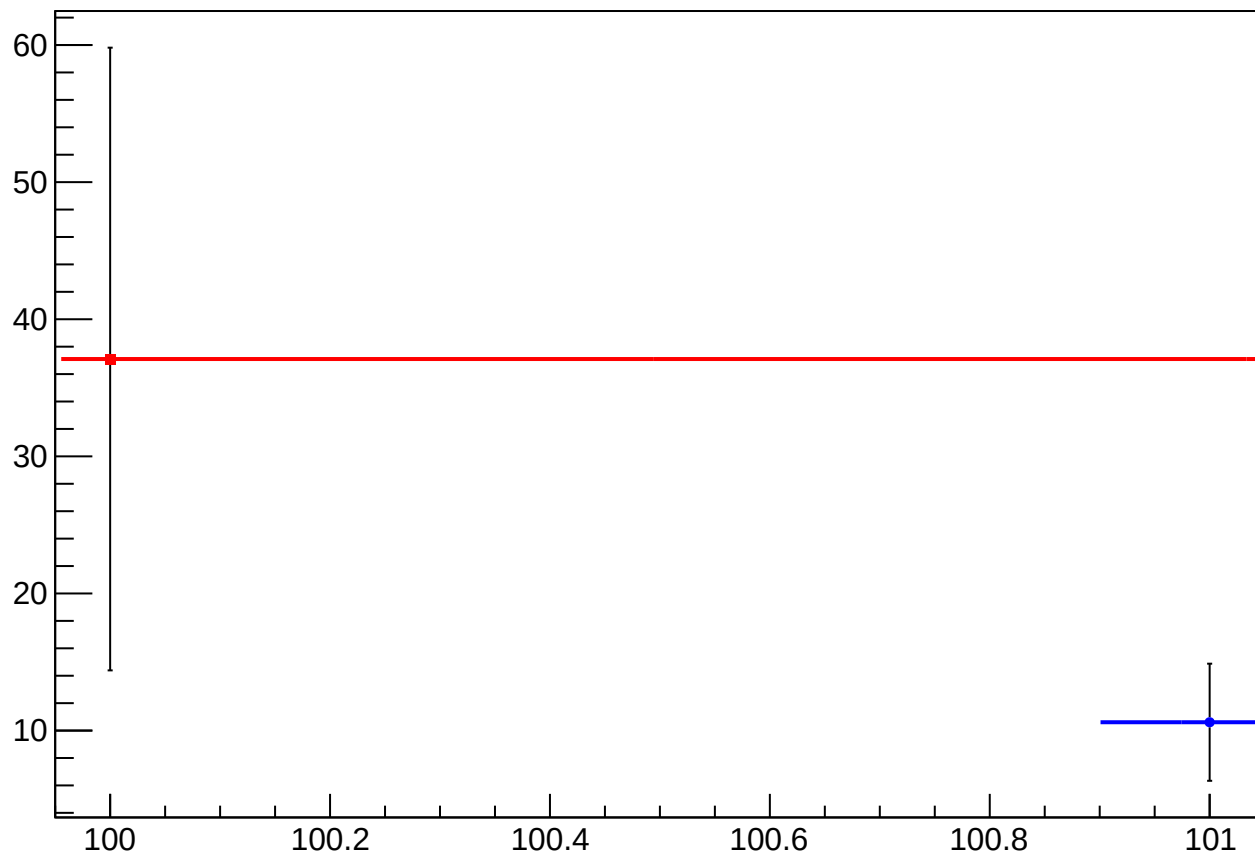
Right: 33.605+/-5.087  $\chi^2$ /NDF: 0.4/1

In: 34.375+/-5.228  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 33.605+/-5.087  $\chi^2$ /NDF: 0.4/1

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 10.608+/-4.271  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 37.099+/-22.708  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

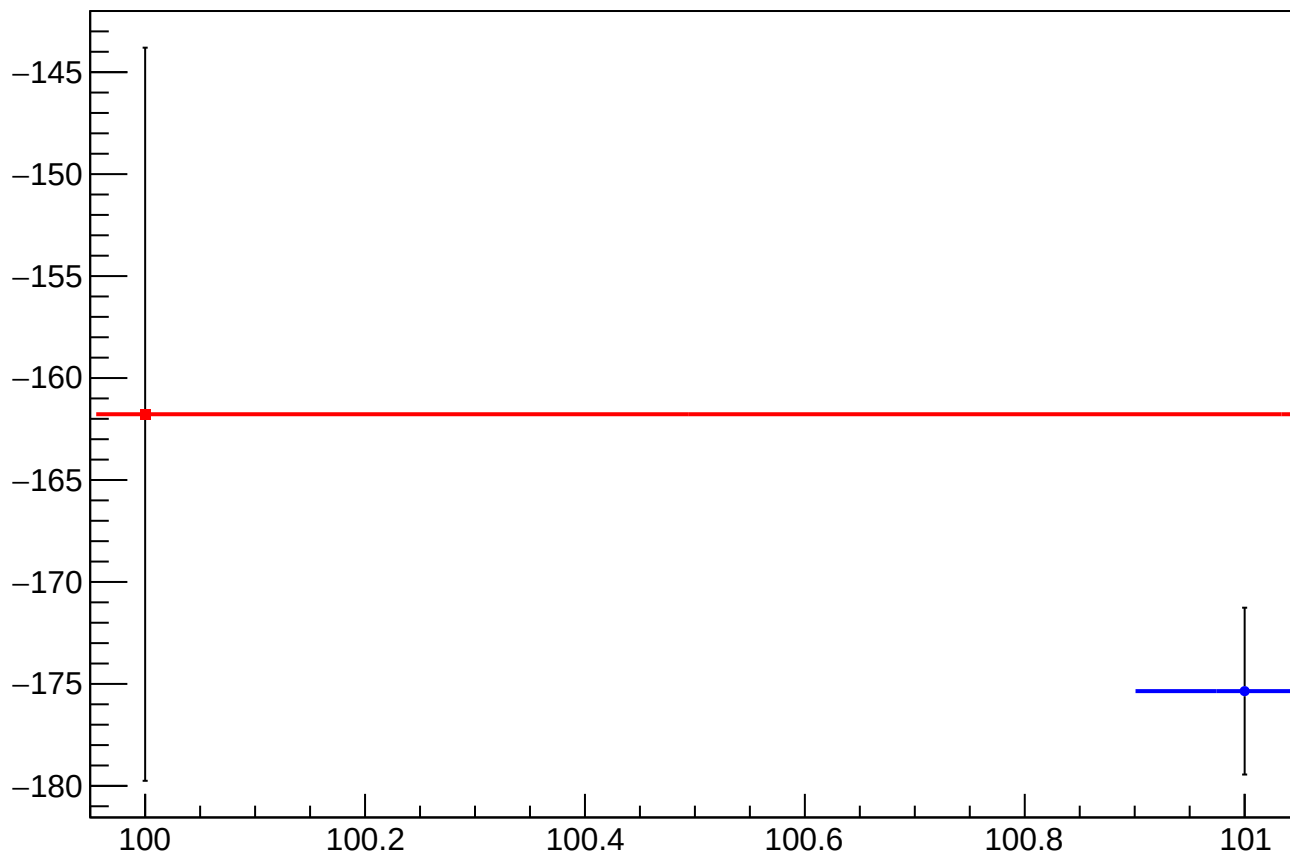
Right: 11.513+/-4.197  $\chi^2/\text{NDF}$ : 1.3/1

In: 10.608+/-4.271  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 11.513+/-4.197  $\chi^2/\text{NDF}$ : 1.3/1

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: -175.353+/-4.091  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -161.775+/-17.976  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

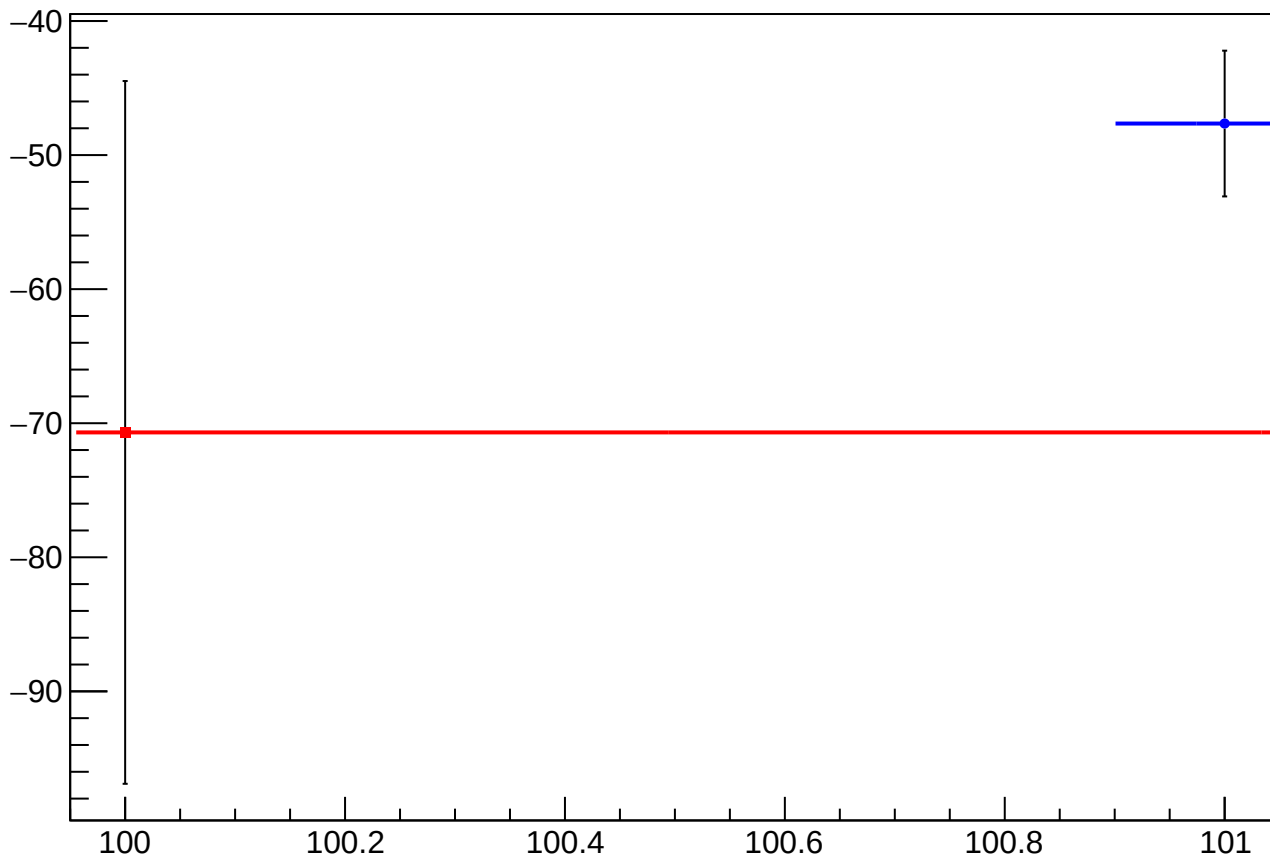
Right: -174.685+/-3.989  $\chi^2$ /NDF: 0.5/1

In: -175.353+/-4.091  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -174.685+/-3.989  $\chi^2$ /NDF: 0.5/1

reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-47.647 \pm 5.436$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-70.686 \pm 26.210$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right:  $-48.597 \pm 5.322$   $\chi^2/\text{NDF}: 0.7/1$

In:  $-47.647 \pm 5.436$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-48.597 \pm 5.322$   $\chi^2/\text{NDF}: 0.7/1$



reg\_asym\_us\_dd\_atlr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 55.161 $\pm$ 0.243  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 67.149 $\pm$ 0.910  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

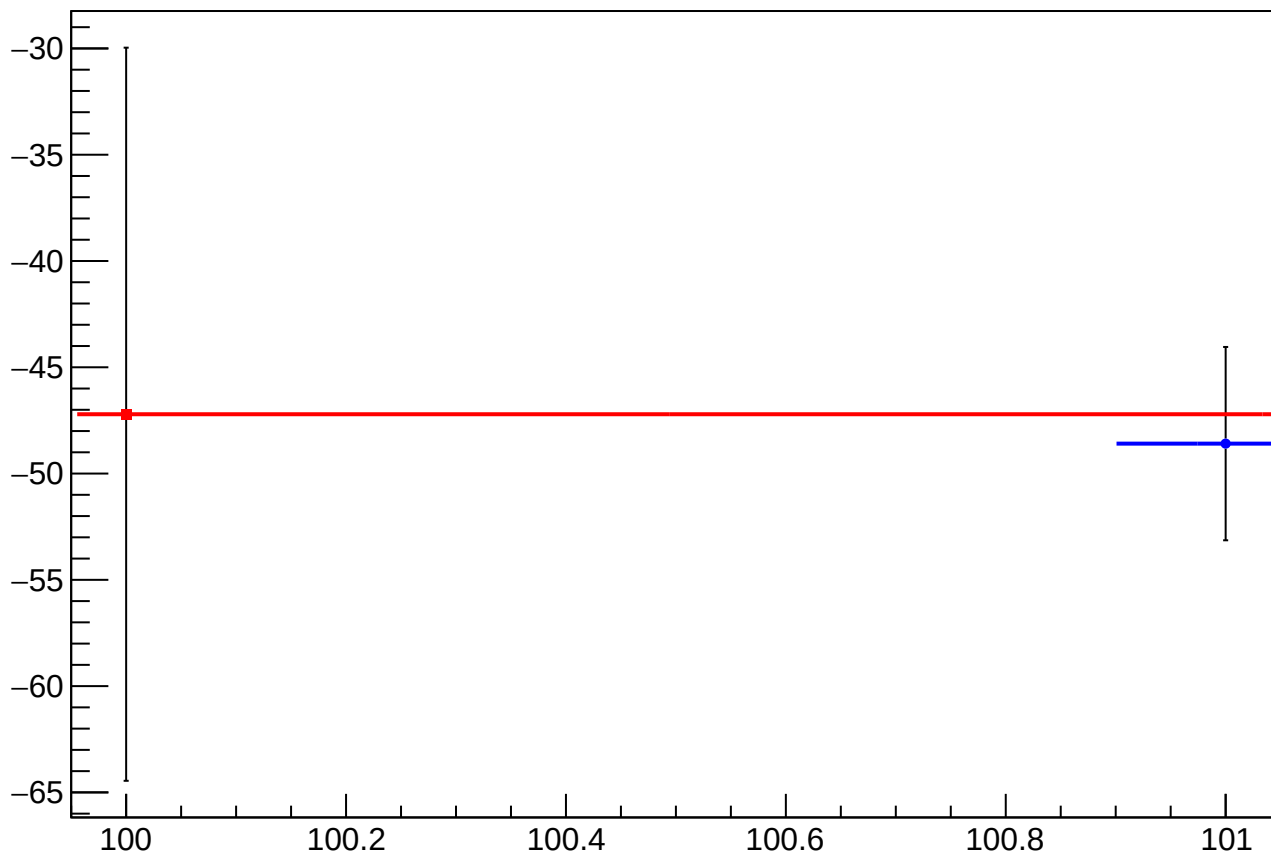
Right: 55.957 $\pm$ 0.235  $\chi^2$ /NDF: 161.9/1

In: 55.161 $\pm$ 0.243  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 55.957 $\pm$ 0.235  $\chi^2$ /NDF: 161.9/1

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -48.592±/-4.548  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -47.209±/-17.245  $\chi^2$ /NDF: 0.0/0

Left In: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

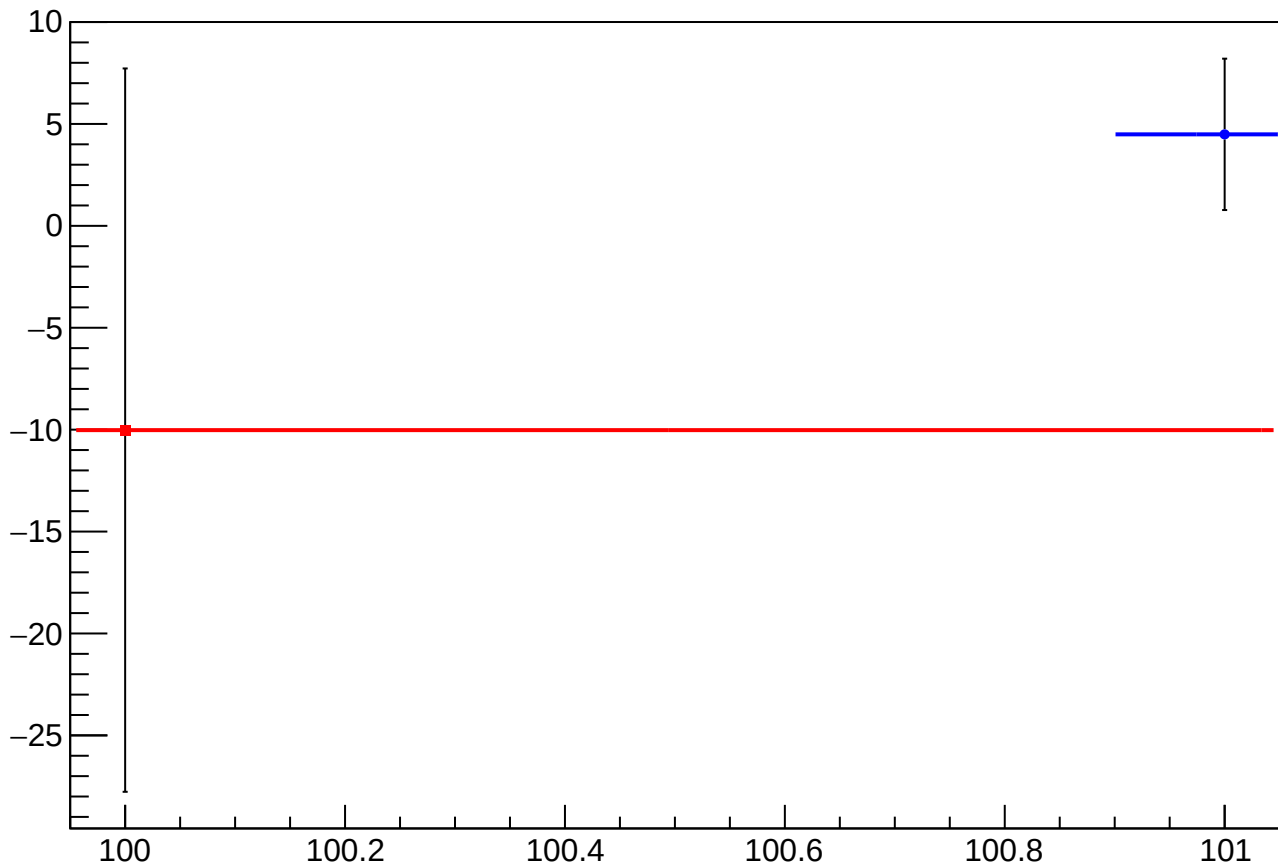
Right: -48.502±/-4.397  $\chi^2$ /NDF: 0.0/1

In: -48.592±/-4.548  $\chi^2$ /NDF:0.0/0

Out: 0.000±/-0.000  $\chi^2$ /NDF:0.0/0

All: -48.502±/-4.397  $\chi^2$ /NDF: 0.0/1

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 4.489+/-3.713  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -10.023+/-17.745  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

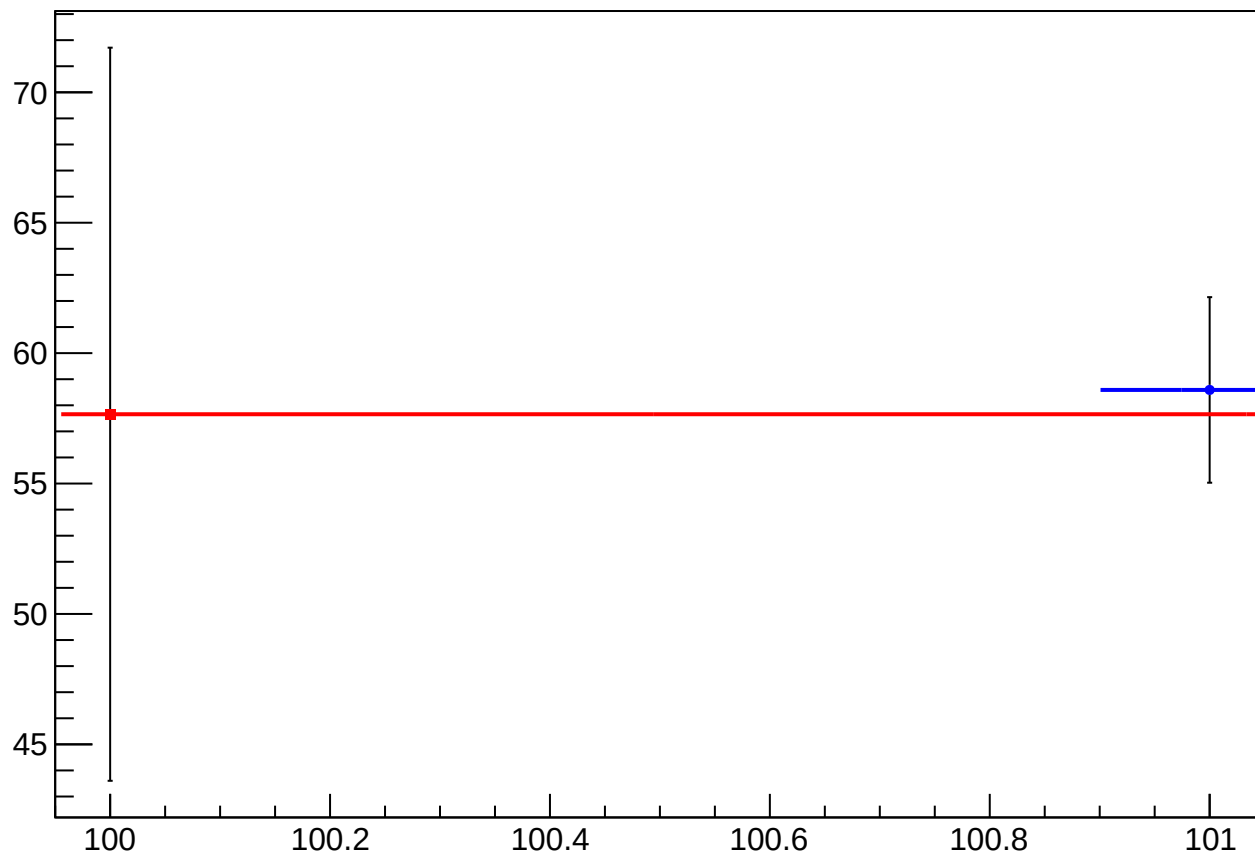
Right: 3.880+/-3.635  $\chi^2/\text{NDF}$ : 0.6/1

In: 4.489+/-3.713  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.880+/-3.635  $\chi^2/\text{NDF}$ : 0.6/1

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 58.589 $\pm$ 3.558  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 57.657 $\pm$ 14.055  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

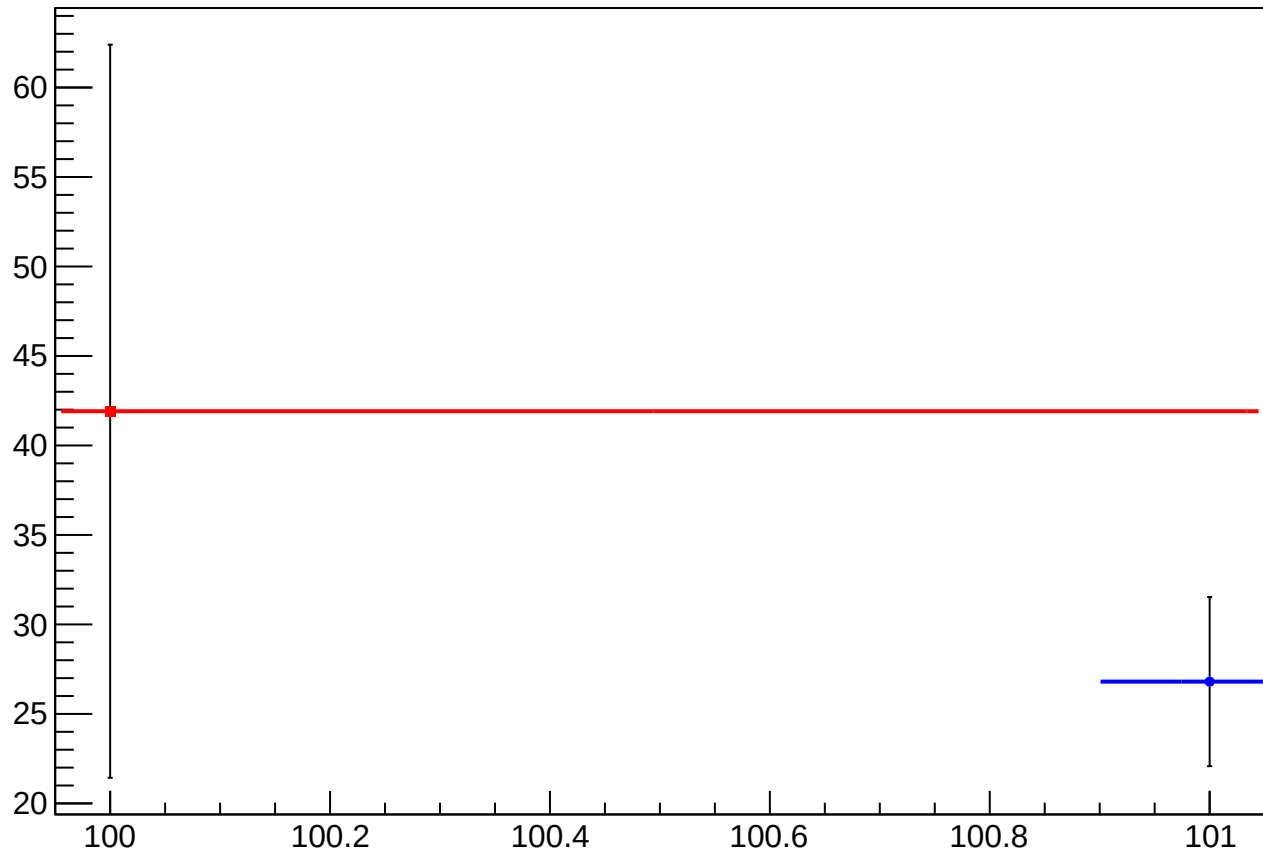
Right: 58.533 $\pm$ 3.449  $\chi^2$ /NDF: 0.0/1

In: 58.589 $\pm$ 3.558  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 58.533 $\pm$ 3.449  $\chi^2$ /NDF: 0.0/1

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 26.805 $\pm$ 4.724  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 41.912 $\pm$ 20.482  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

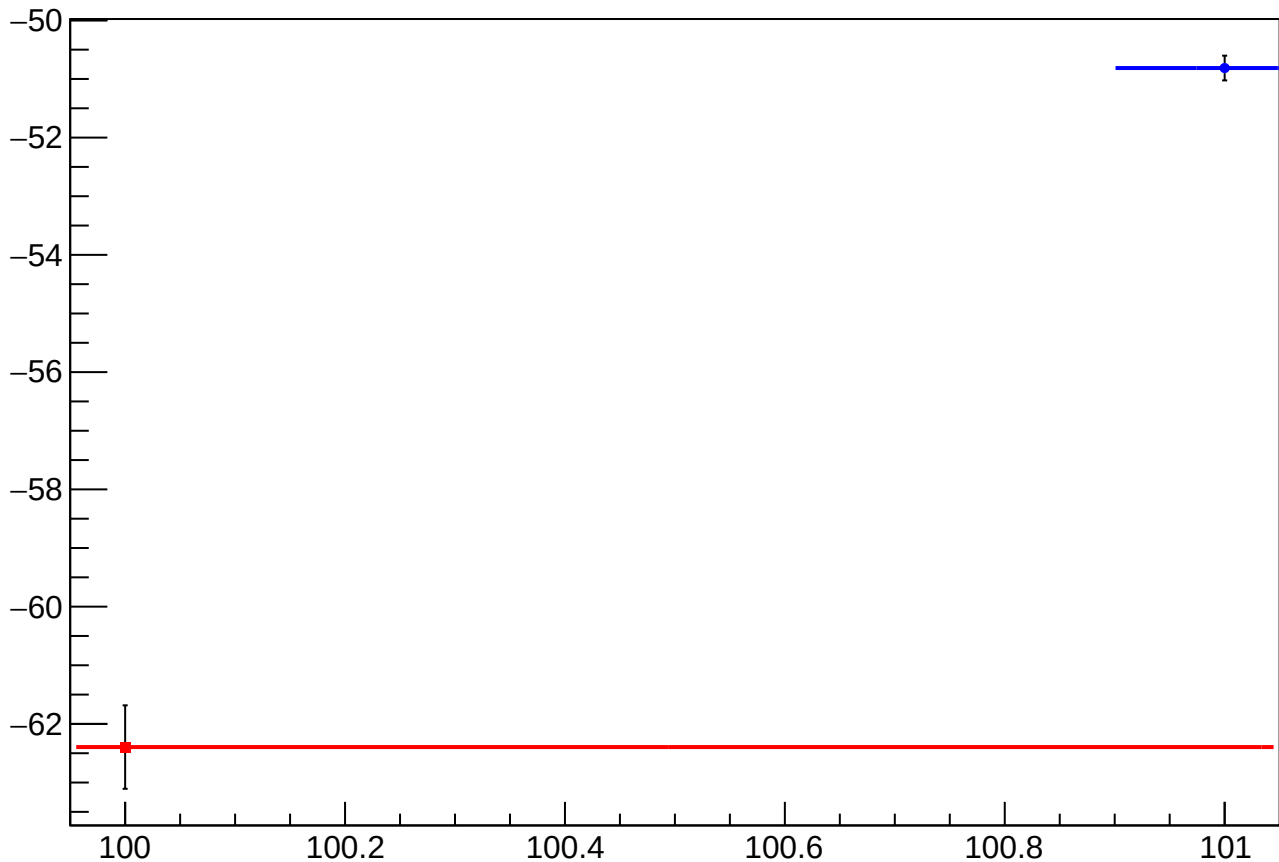
Right: 27.568 $\pm$ 4.604  $\chi^2$ /NDF: 0.5/1

In: 26.805 $\pm$ 4.724  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.568 $\pm$ 4.604  $\chi^2$ /NDF: 0.5/1

reg\_asym\_us\_dd\_atlr\_dd\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -50.814 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -62.395 $\pm$ 0.712  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

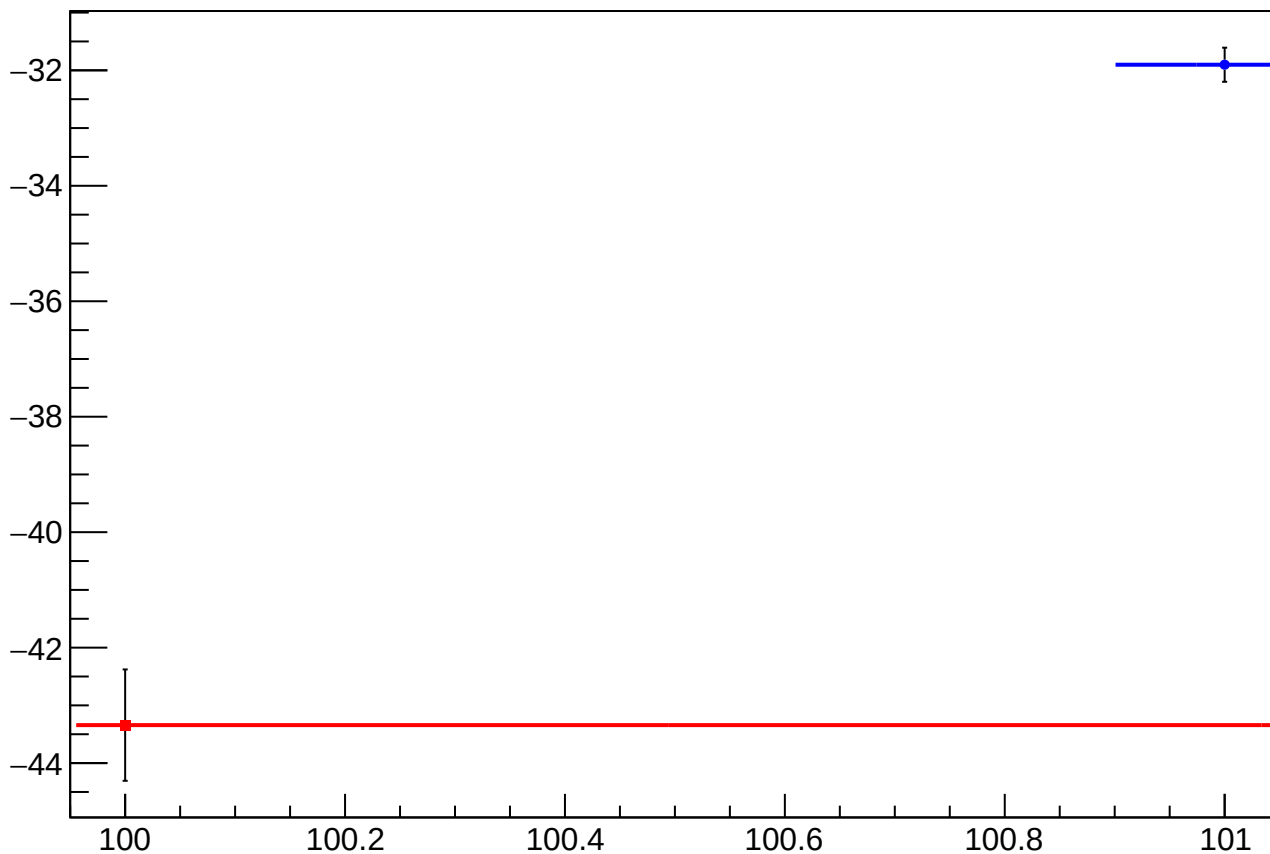
Right: -51.748 $\pm$ 0.202  $\chi^2$ /NDF: 243.4/1

In: -50.814 $\pm$ 0.211  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -51.748 $\pm$ 0.202  $\chi^2$ /NDF: 243.4/1

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -31.903 $\pm$ 0.295  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -43.342 $\pm$ 0.965  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

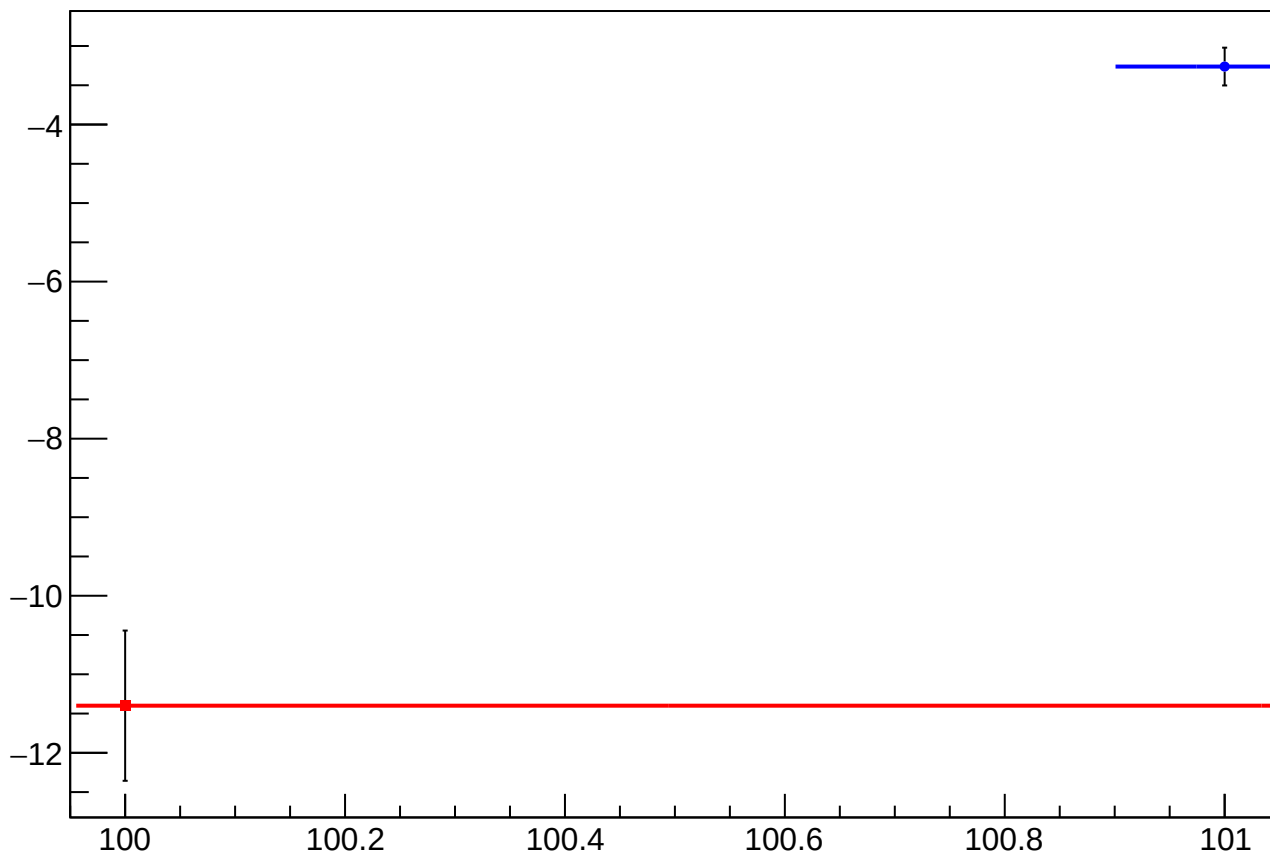
Right: -32.884 $\pm$ 0.282  $\chi^2/\text{NDF}$ : 128.6/1

In: -31.903 $\pm$ 0.295  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.884 $\pm$ 0.282  $\chi^2/\text{NDF}$ : 128.6/1

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.262 $\pm$ 0.241  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.400 $\pm$ 0.956  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -3.746 $\pm$ 0.233  $\chi^2/\text{NDF}$ : 68.1/1

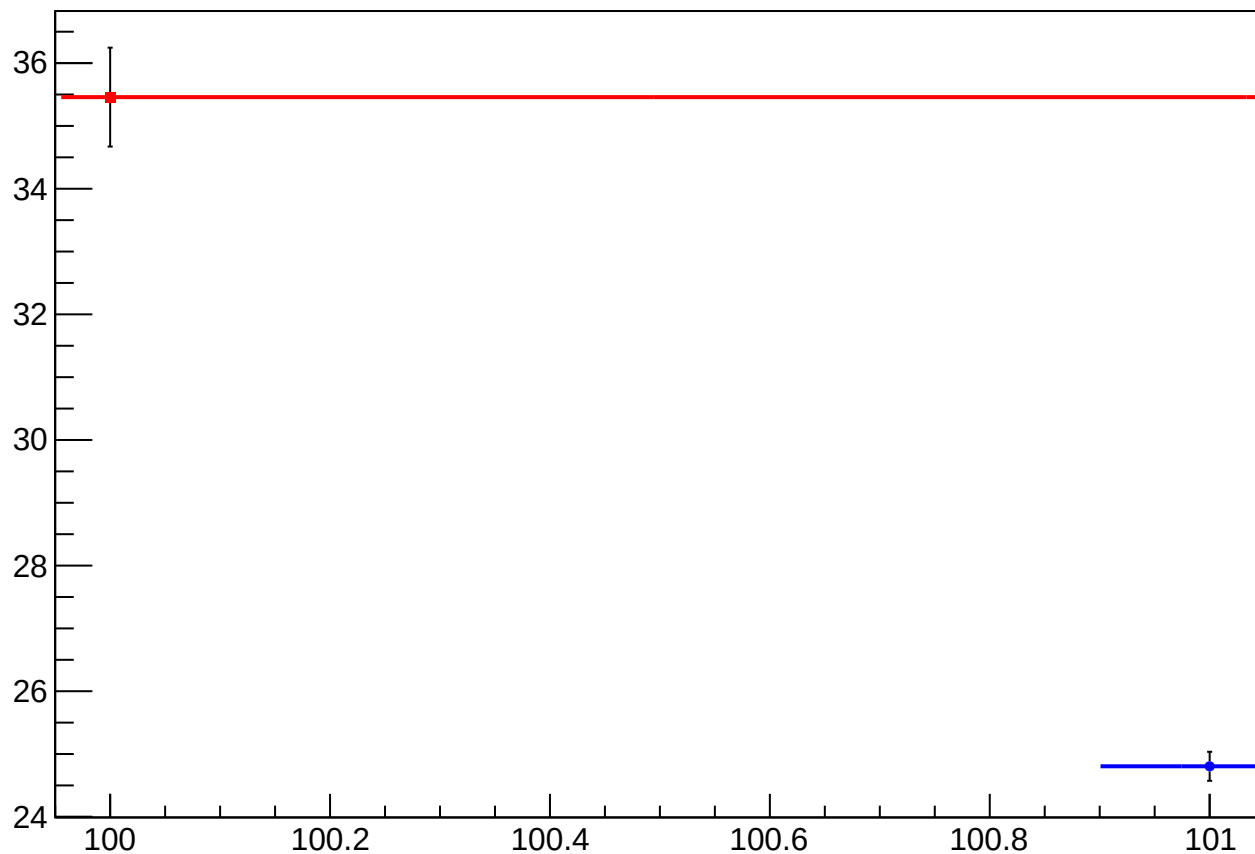
In: -3.262 $\pm$ 0.241  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.746 $\pm$ 0.233  $\chi^2/\text{NDF}$ : 68.1/1



reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 24.805 $\pm$ 0.231  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 35.459 $\pm$ 0.787  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

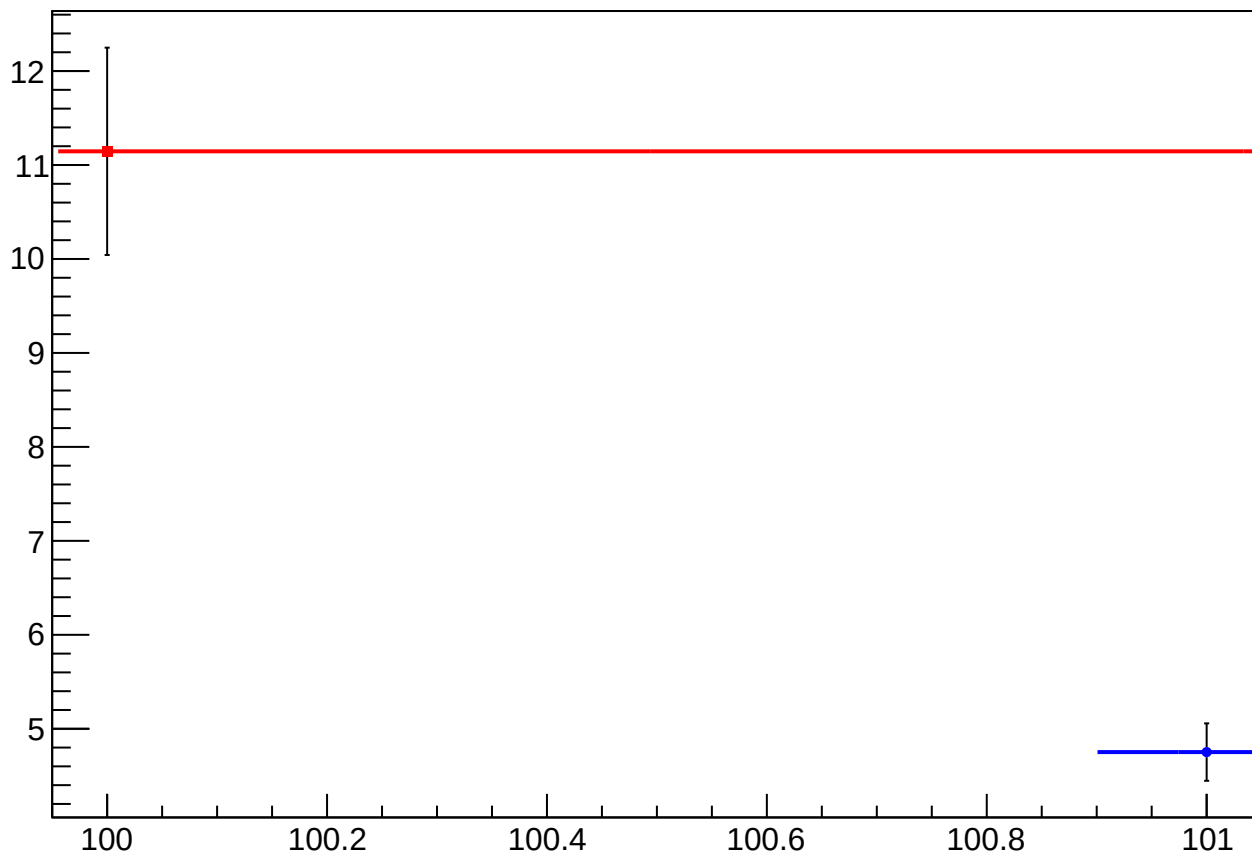
Right: 25.649 $\pm$ 0.222  $\chi^2$ /NDF: 168.6/1

In: 24.805 $\pm$ 0.231  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.649 $\pm$ 0.222  $\chi^2$ /NDF: 168.6/1

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.752 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.146 $\pm$ 1.103  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

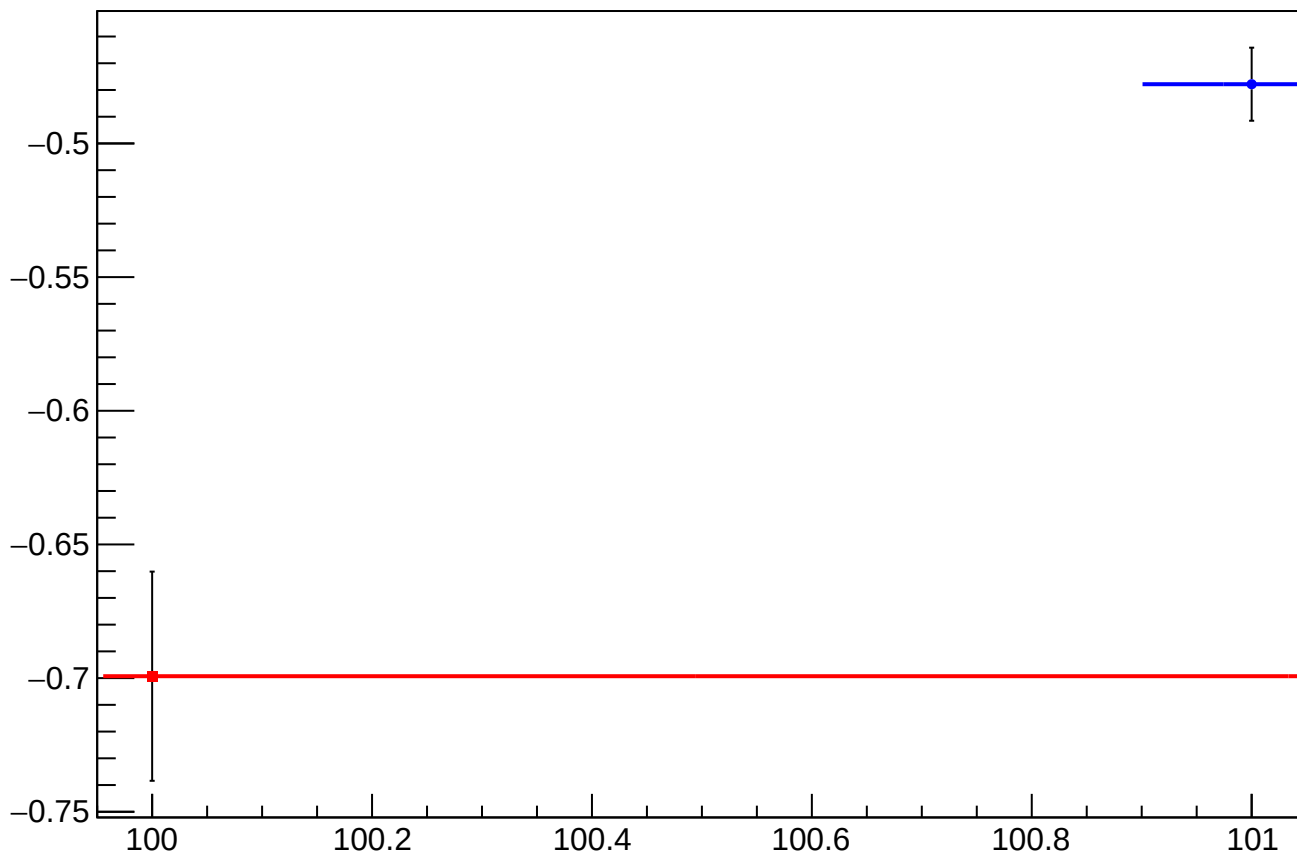
Right: 5.208 $\pm$ 0.295  $\chi^2$ /NDF: 31.2/1

In: 4.752 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.208 $\pm$ 0.295  $\chi^2$ /NDF: 31.2/1

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.478+/-0.014  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.699+/-0.039  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

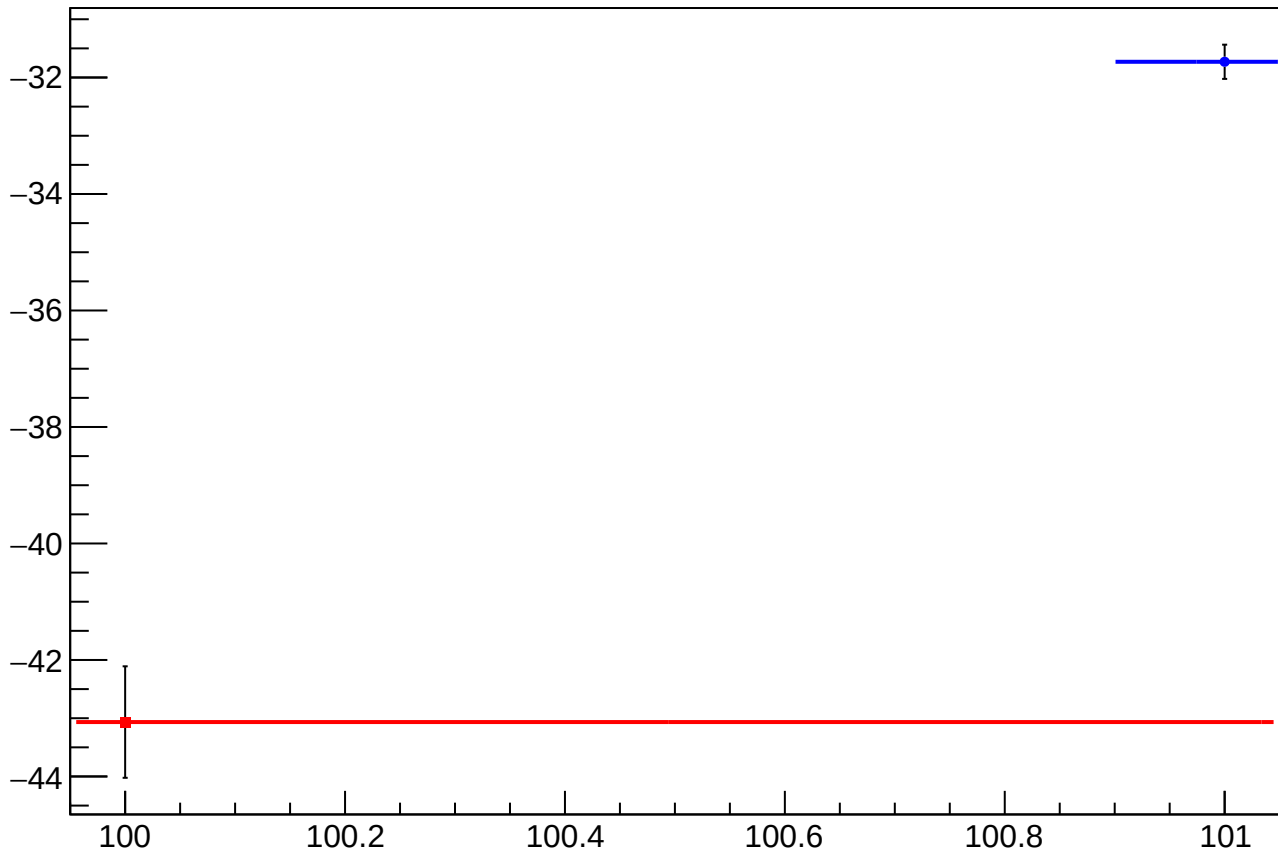
Right: -0.502+/-0.013  $\chi^2$ /NDF: 28.6/1

In: -0.478+/-0.014  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -0.502+/-0.013  $\chi^2$ /NDF: 28.6/1

reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -31.730 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -43.066 $\pm$ 0.957  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

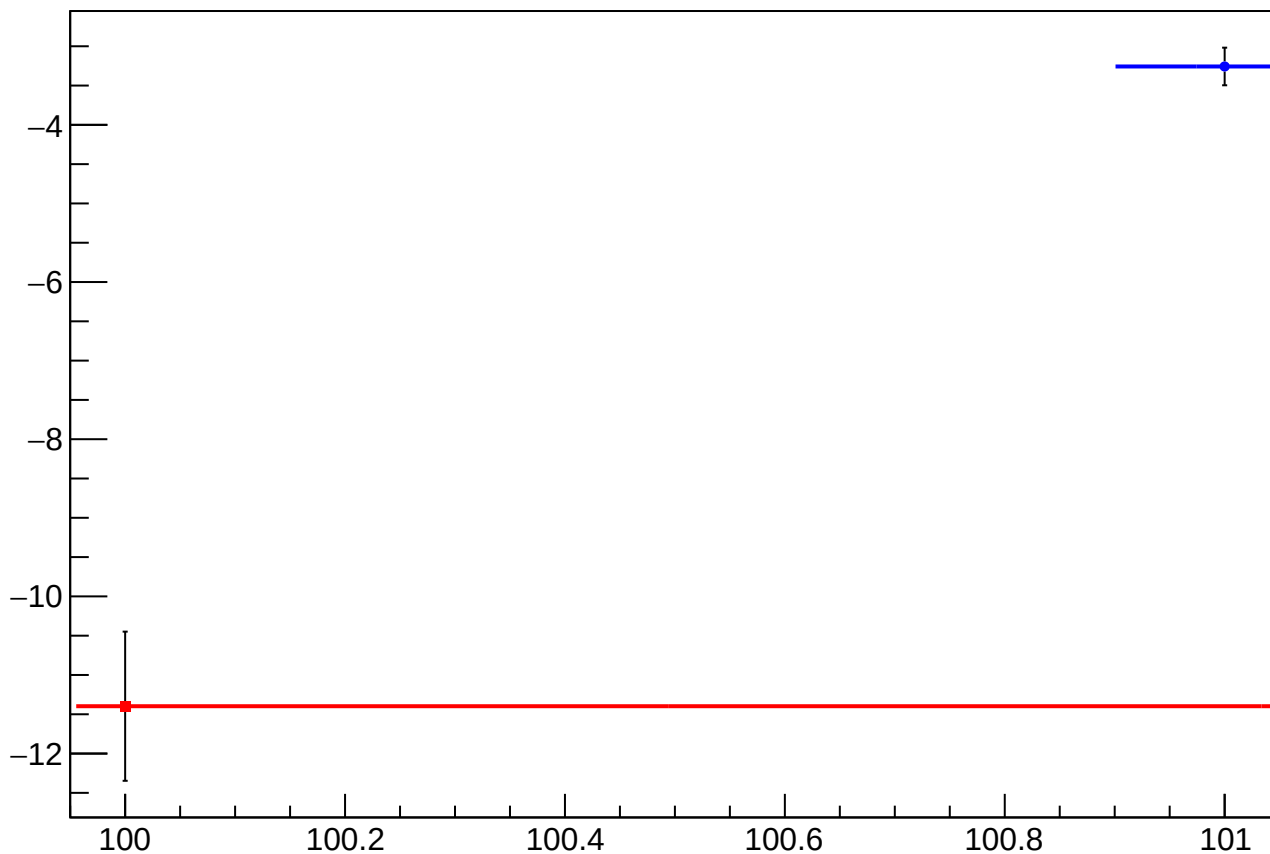
Right: -32.707 $\pm$ 0.281  $\chi^2$ /NDF: 128.2/1

In: -31.730 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -32.707 $\pm$ 0.281  $\chi^2$ /NDF: 128.2/1

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.257 $\pm$ 0.239  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -11.398 $\pm$ 0.949  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

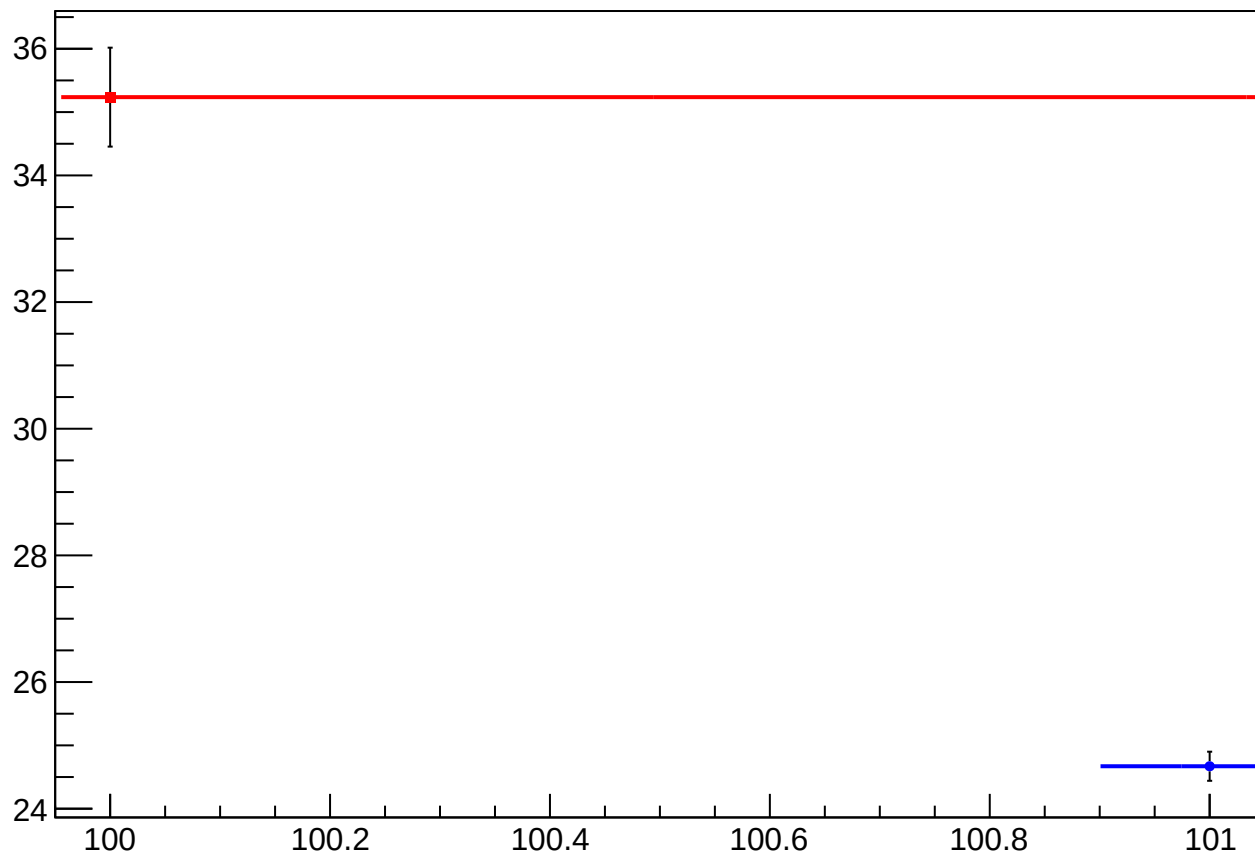
Right: -3.744 $\pm$ 0.232  $\chi^2$ /NDF: 69.2/1

In: -3.257 $\pm$ 0.239  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.744 $\pm$ 0.232  $\chi^2$ /NDF: 69.2/1

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 24.670 $\pm$ 0.230  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 35.236 $\pm$ 0.781  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

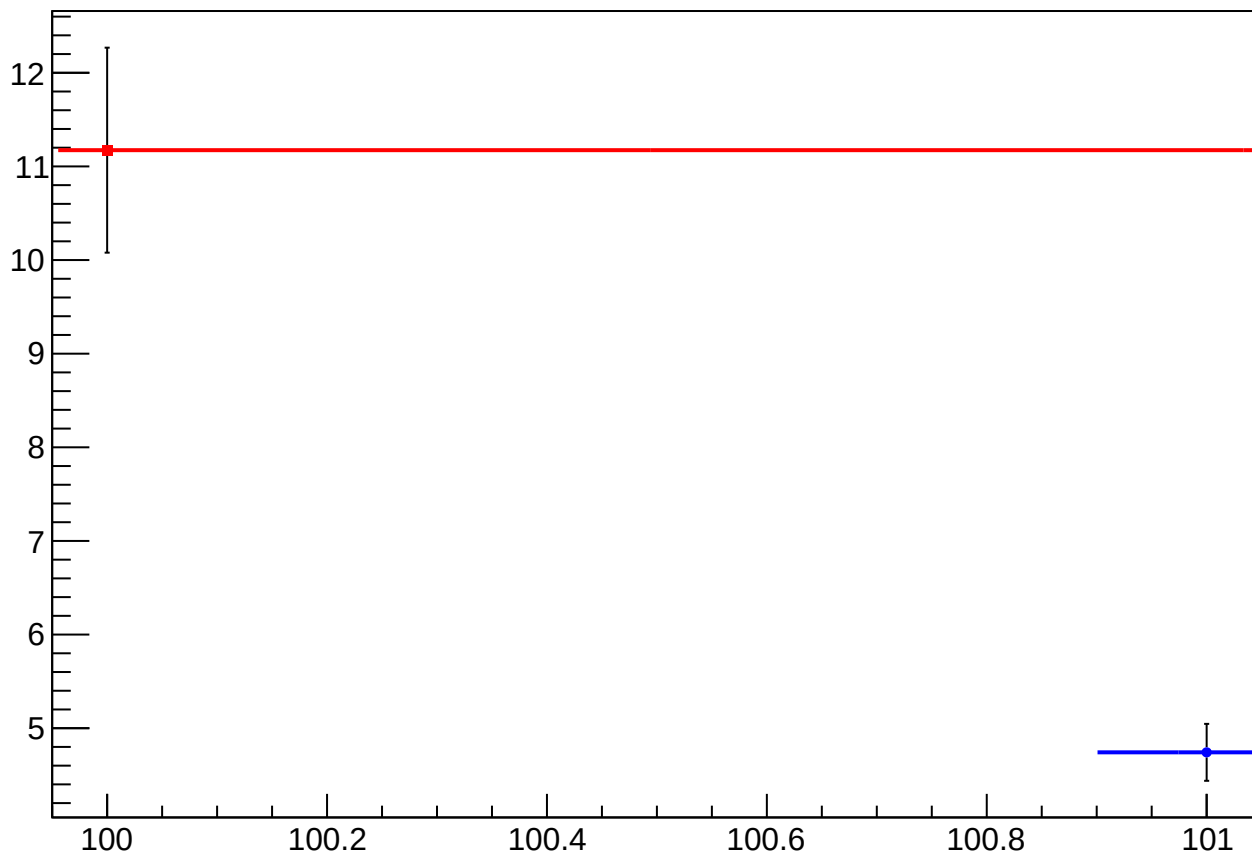
Right: 25.512 $\pm$ 0.220  $\chi^2$ /NDF: 168.4/1

In: 24.670 $\pm$ 0.230  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 25.512 $\pm$ 0.220  $\chi^2$ /NDF: 168.4/1

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.742 $\pm$ 0.304  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.174 $\pm$ 1.095  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

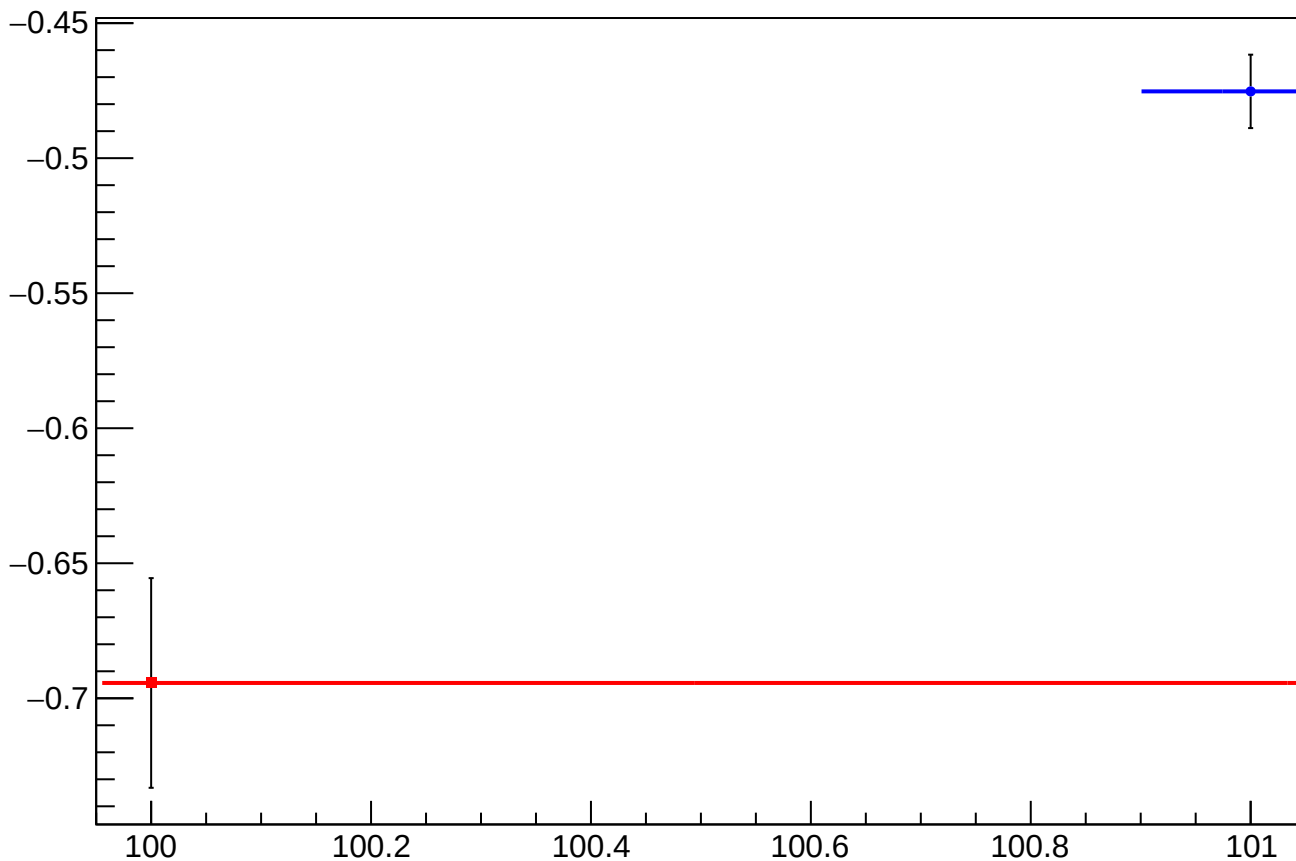
Right: 5.203 $\pm$ 0.293  $\chi^2$ /NDF: 32.0/1

In: 4.742 $\pm$ 0.304  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.203 $\pm$ 0.293  $\chi^2$ /NDF: 32.0/1

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.475+/-0.014  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.694+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -0.499+/-0.013  $\chi^2/\text{NDF}$ : 28.4/1

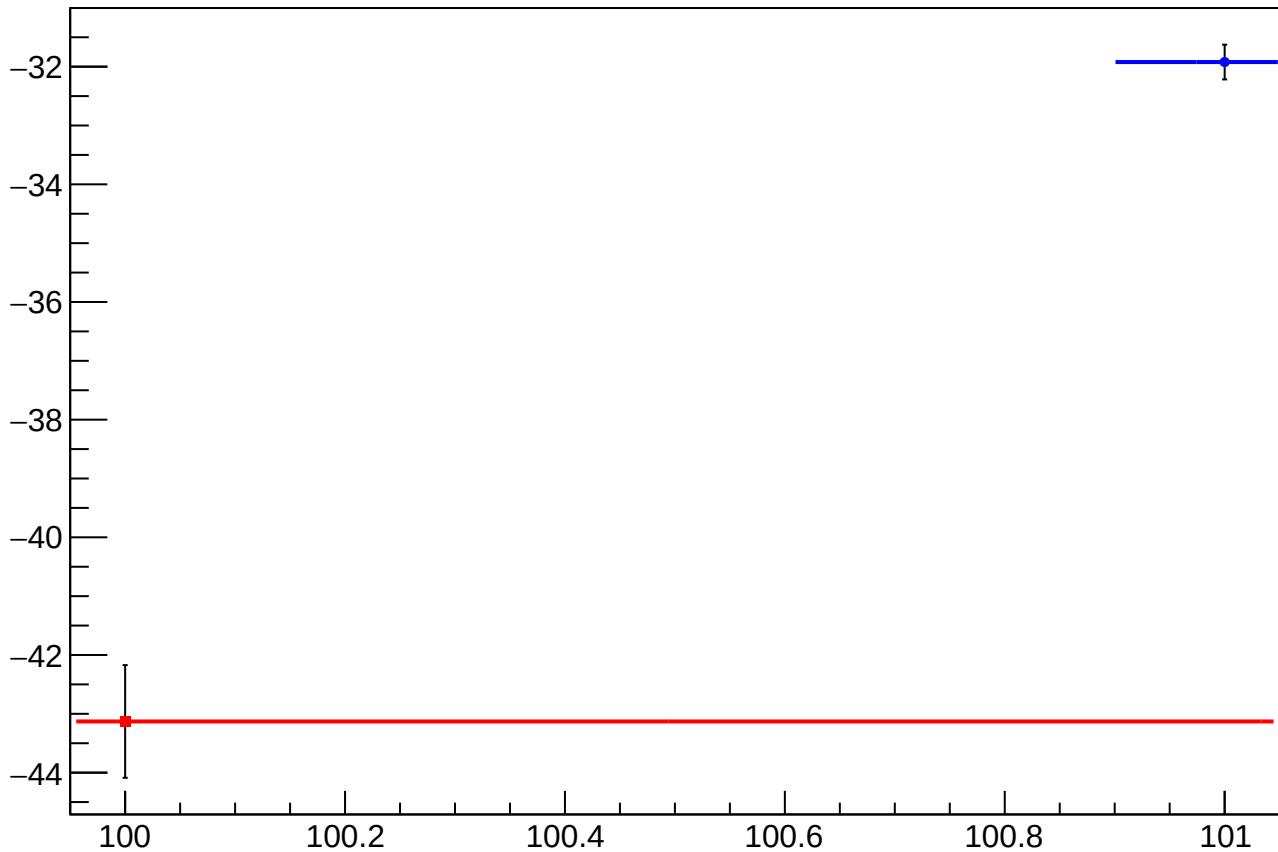
In: -0.475+/-0.014  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.499+/-0.013  $\chi^2/\text{NDF}$ : 28.4/1



reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -31.921+/-0.295  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -43.130+/-0.958  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

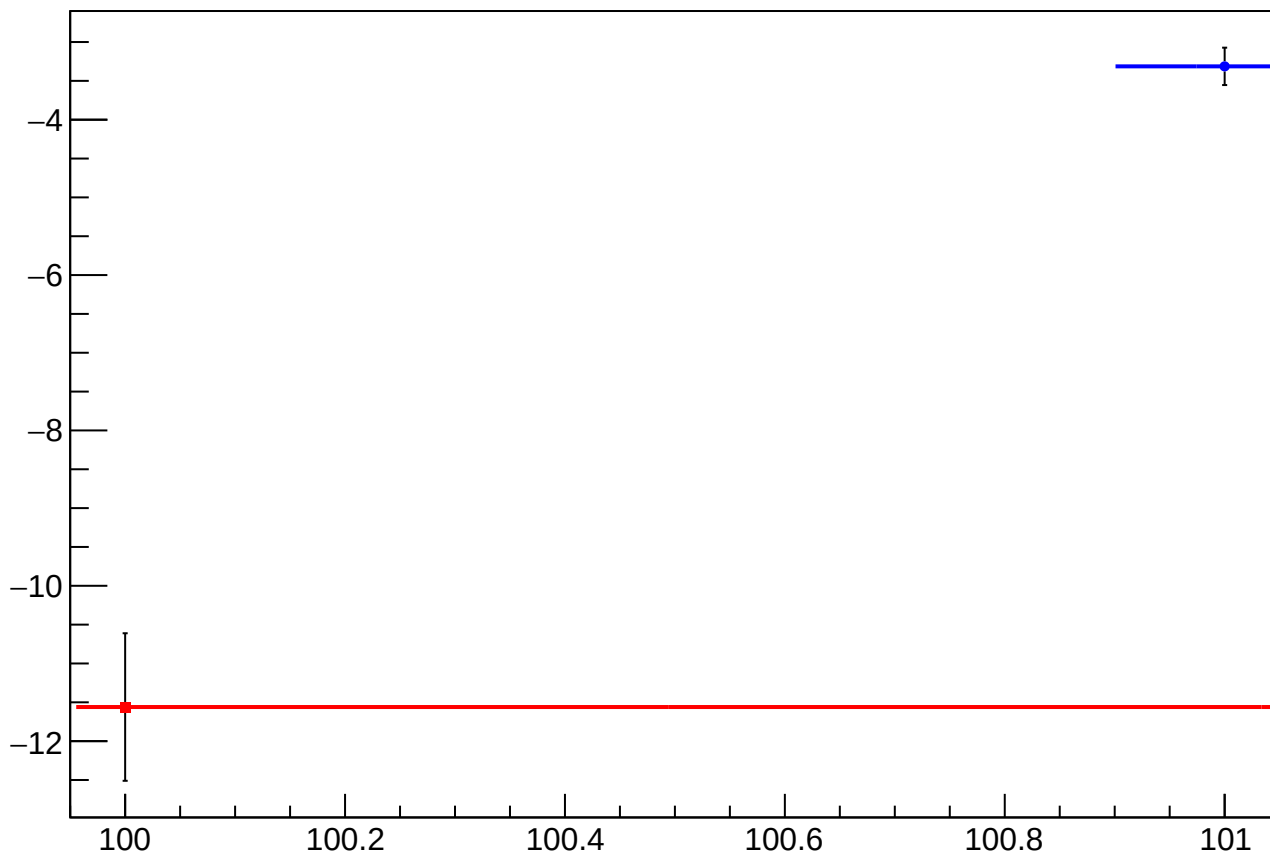
Right: -32.895+/-0.282  $\chi^2/\text{NDF}$ : 125.1/1

In: -31.921+/-0.295  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.895+/-0.282  $\chi^2/\text{NDF}$ : 125.1/1

reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.313+/-0.241  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.561+/-0.950  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

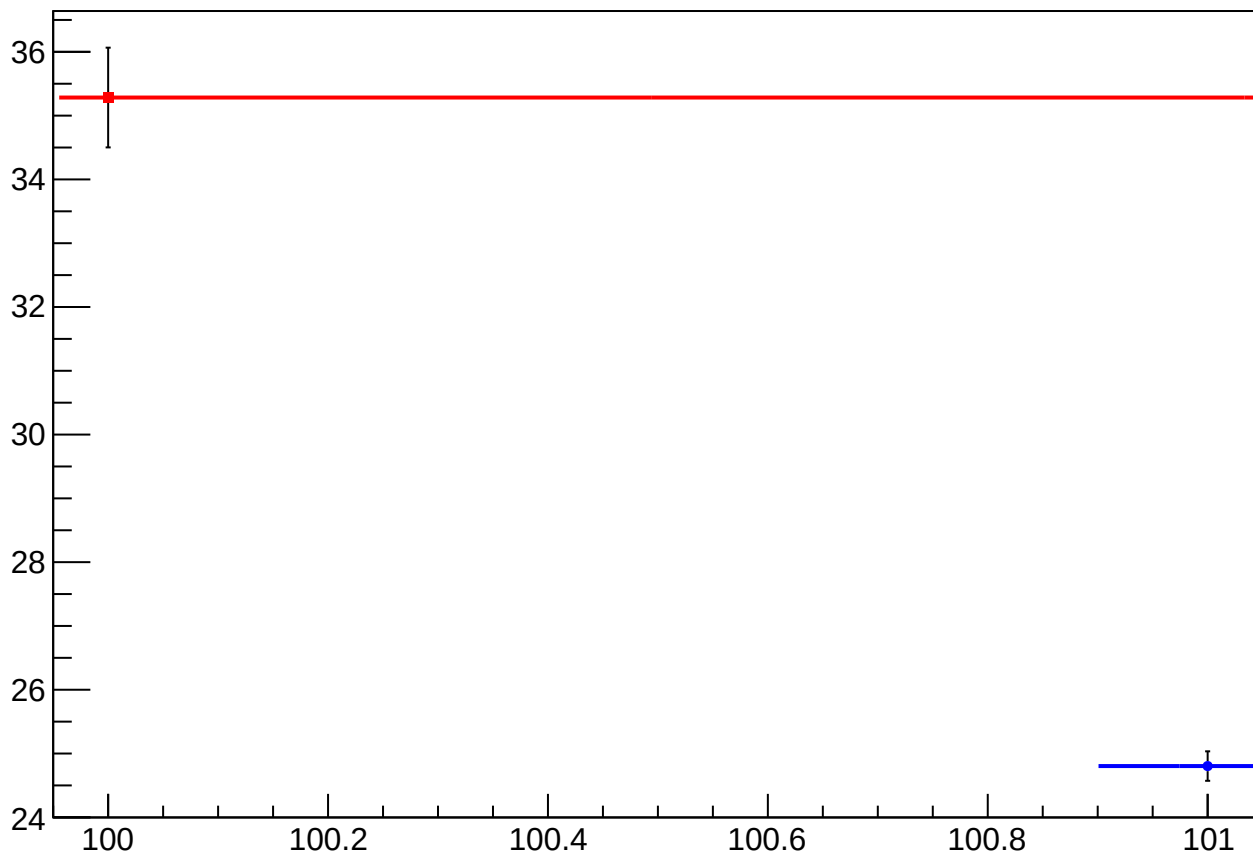
Right: -3.811+/-0.233  $\chi^2/\text{NDF}$ : 70.9/1

In: -3.313+/-0.241  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.811+/-0.233  $\chi^2/\text{NDF}$ : 70.9/1

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 24.803+/-0.231  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.284+/-0.782  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

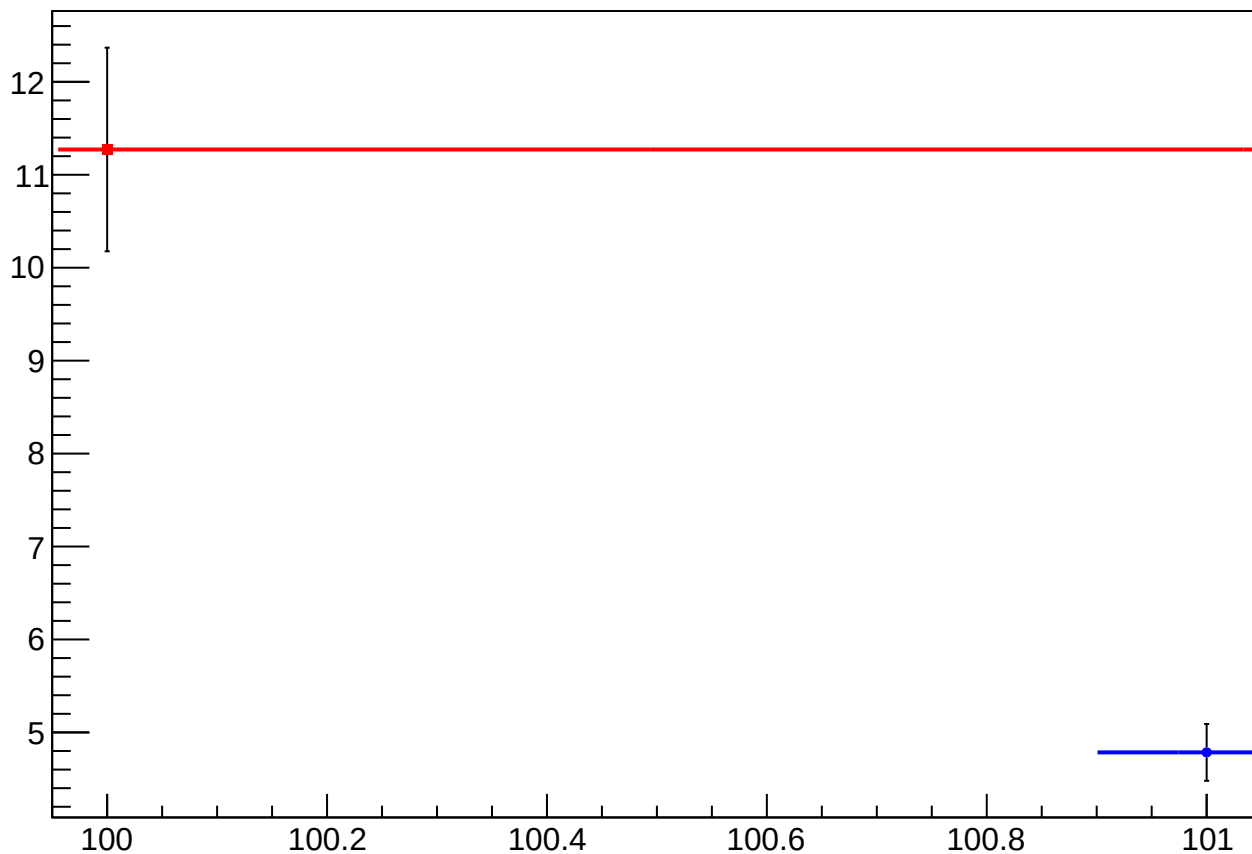
Right: 25.645+/-0.222  $\chi^2/\text{NDF}$ : 165.3/1

In: 24.803+/-0.231  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.645+/-0.222  $\chi^2/\text{NDF}$ : 165.3/1

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.785 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.272 $\pm$ 1.095  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

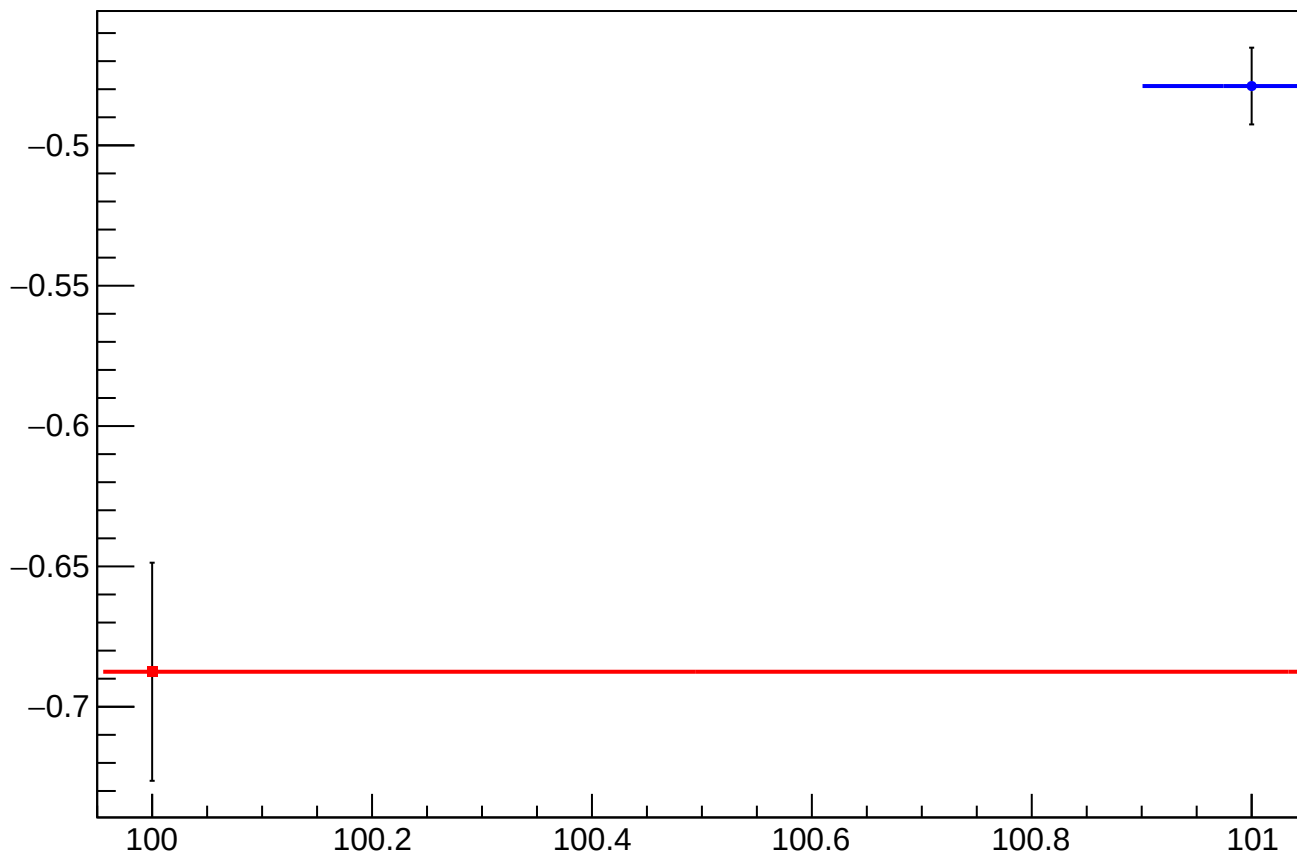
Right: 5.254 $\pm$ 0.294  $\chi^2$ /NDF: 32.5/1

In: 4.785 $\pm$ 0.306  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.254 $\pm$ 0.294  $\chi^2$ /NDF: 32.5/1

reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.479 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.688 $\pm$ 0.039  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

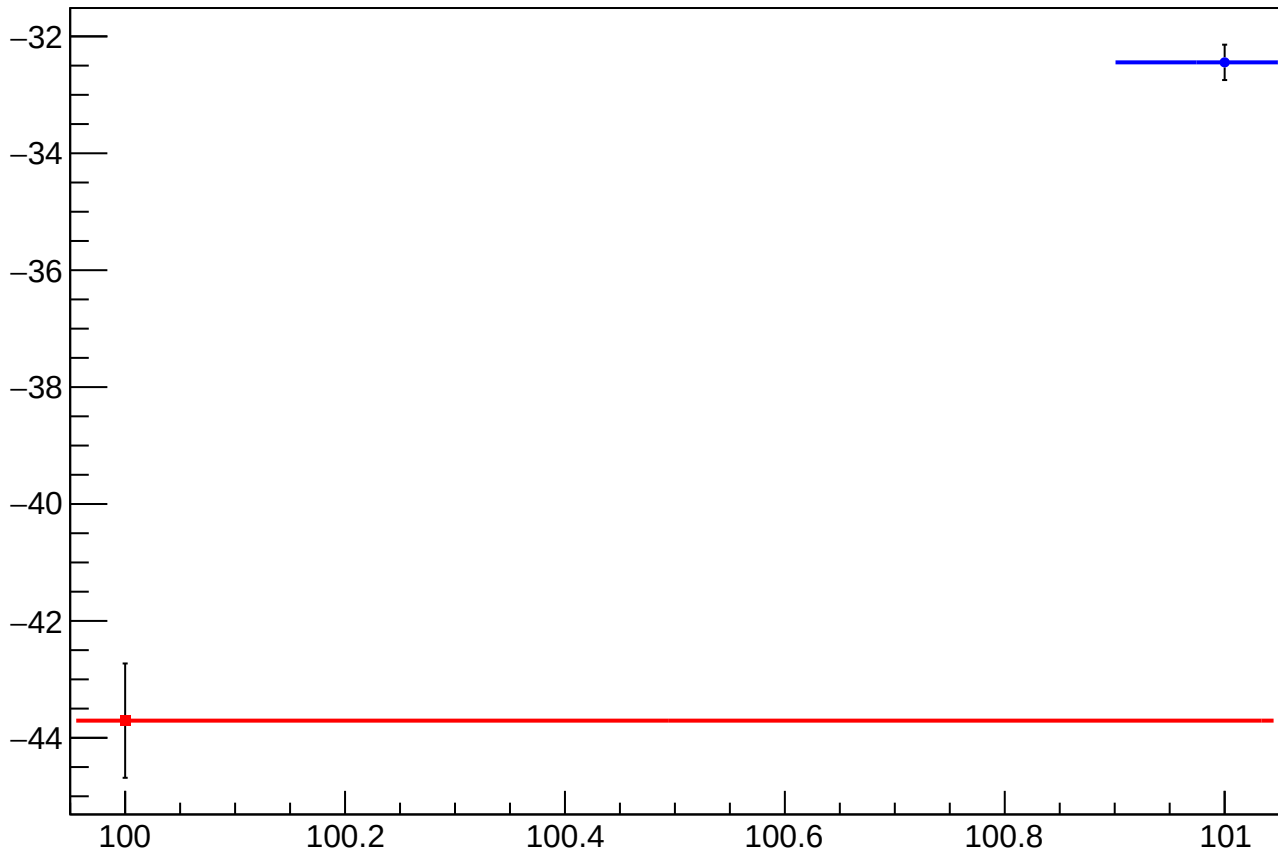
Right: -0.502 $\pm$ 0.013  $\chi^2$ /NDF: 25.7/1

In: -0.479 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.502 $\pm$ 0.013  $\chi^2$ /NDF: 25.7/1

reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -32.444 $\pm$ 0.303  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -43.706 $\pm$ 0.978  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

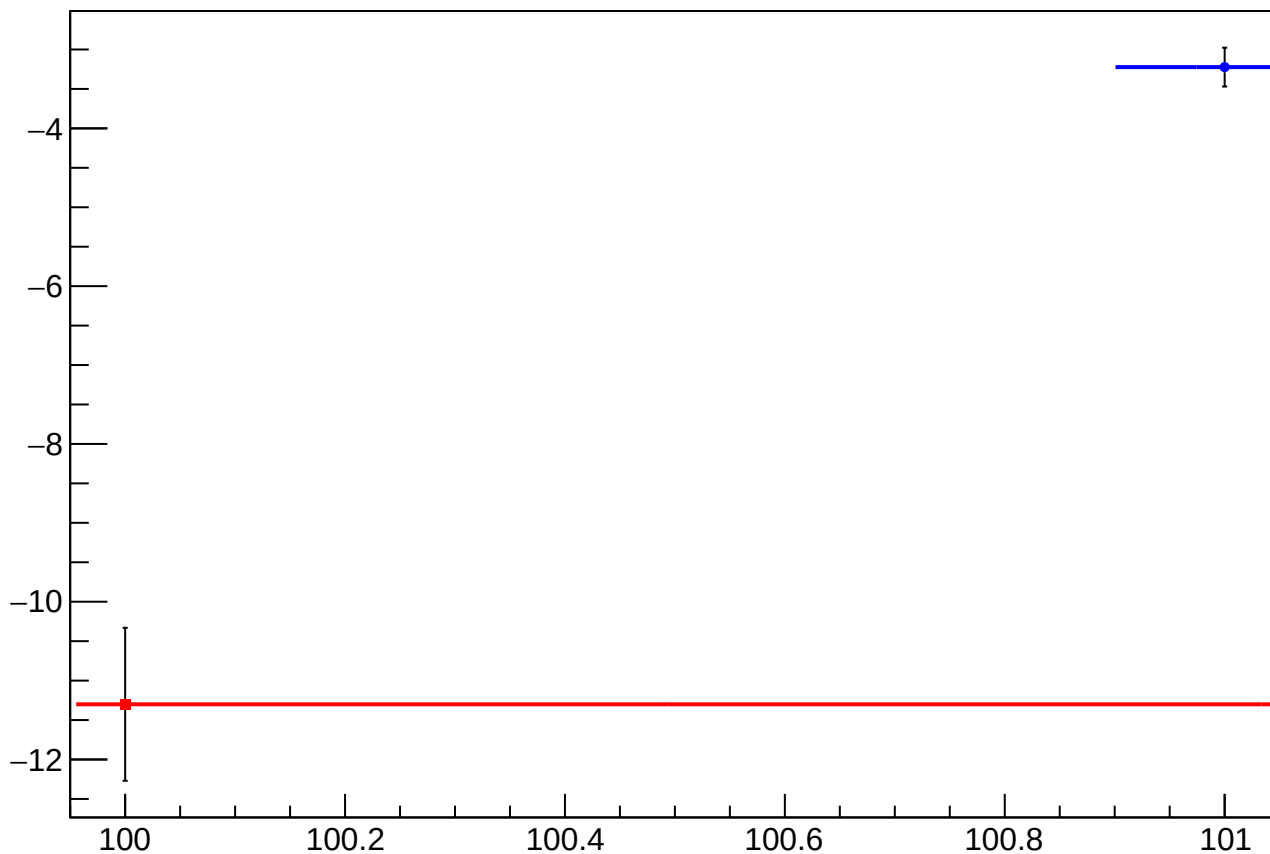
Right: -33.428 $\pm$ 0.289  $\chi^2/\text{NDF}$ : 121.0/1

In: -32.444 $\pm$ 0.303  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -33.428 $\pm$ 0.289  $\chi^2/\text{NDF}$ : 121.0/1

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.223 \pm 0.246$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-11.300 \pm 0.970$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right:  $-3.713 \pm 0.239$   $\chi^2/\text{NDF}: 65.2/1$

In:  $-3.223 \pm 0.246$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-3.713 \pm 0.239$   $\chi^2/\text{NDF}: 65.2/1$

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 25.209 $\pm$ 0.237  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 35.733 $\pm$ 0.798  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 26.059 $\pm$ 0.227  $\chi^2$ /NDF: 159.8/1

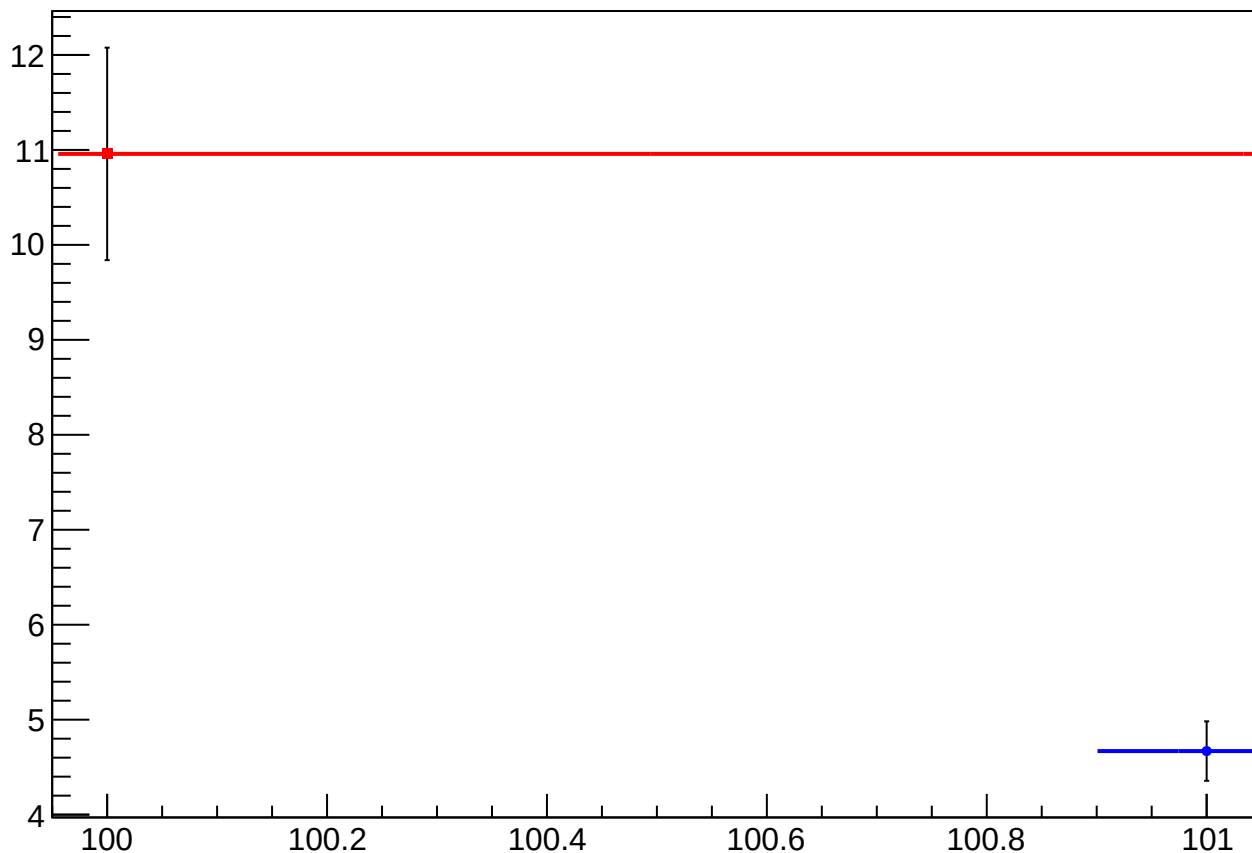
In: 25.209 $\pm$ 0.237  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 26.059 $\pm$ 0.227  $\chi^2$ /NDF: 159.8/1



reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.669 $\pm$ 0.313  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 10.958 $\pm$ 1.119  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

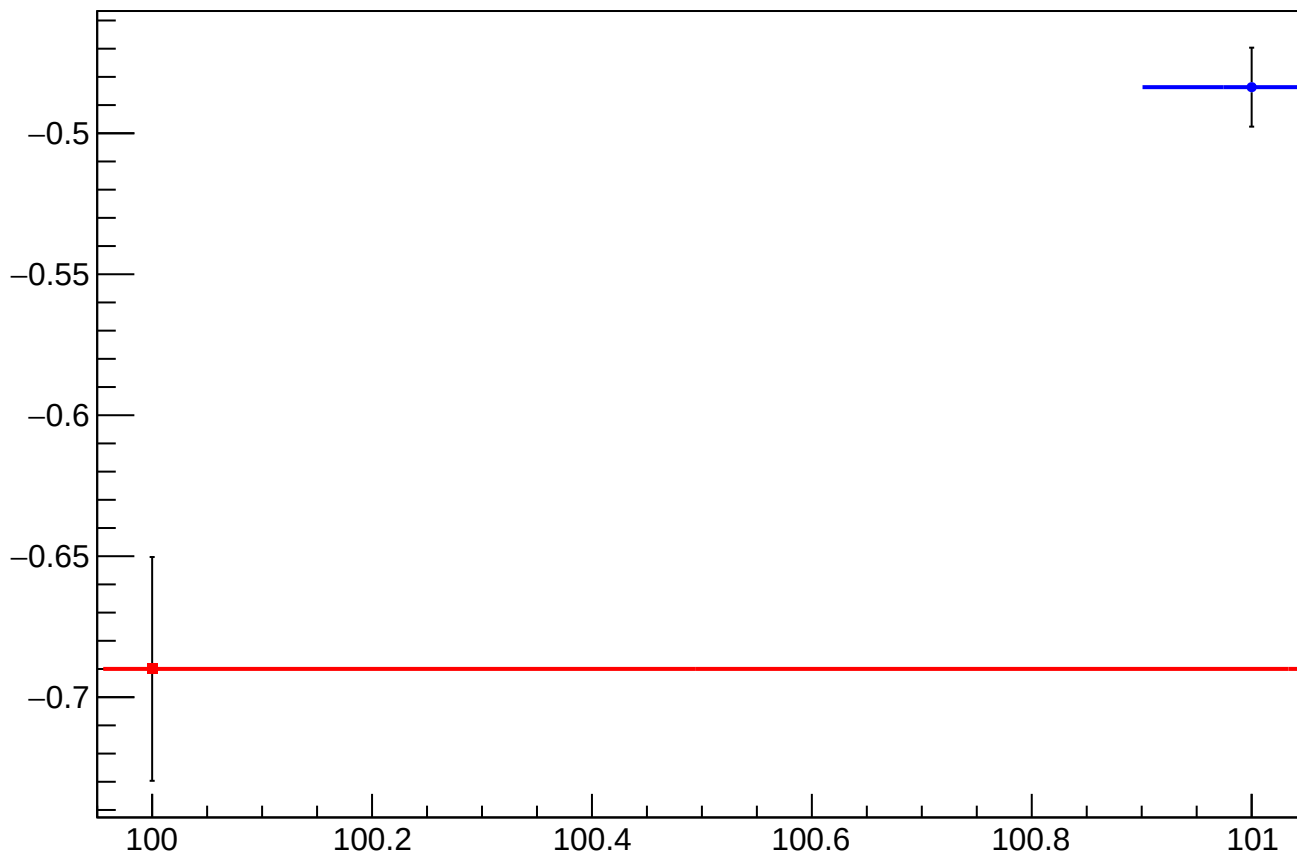
Right: 5.126 $\pm$ 0.301  $\chi^2$ /NDF: 29.3/1

In: 4.669 $\pm$ 0.313  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.126 $\pm$ 0.301  $\chi^2$ /NDF: 29.3/1

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.484 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.690 $\pm$ 0.040  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

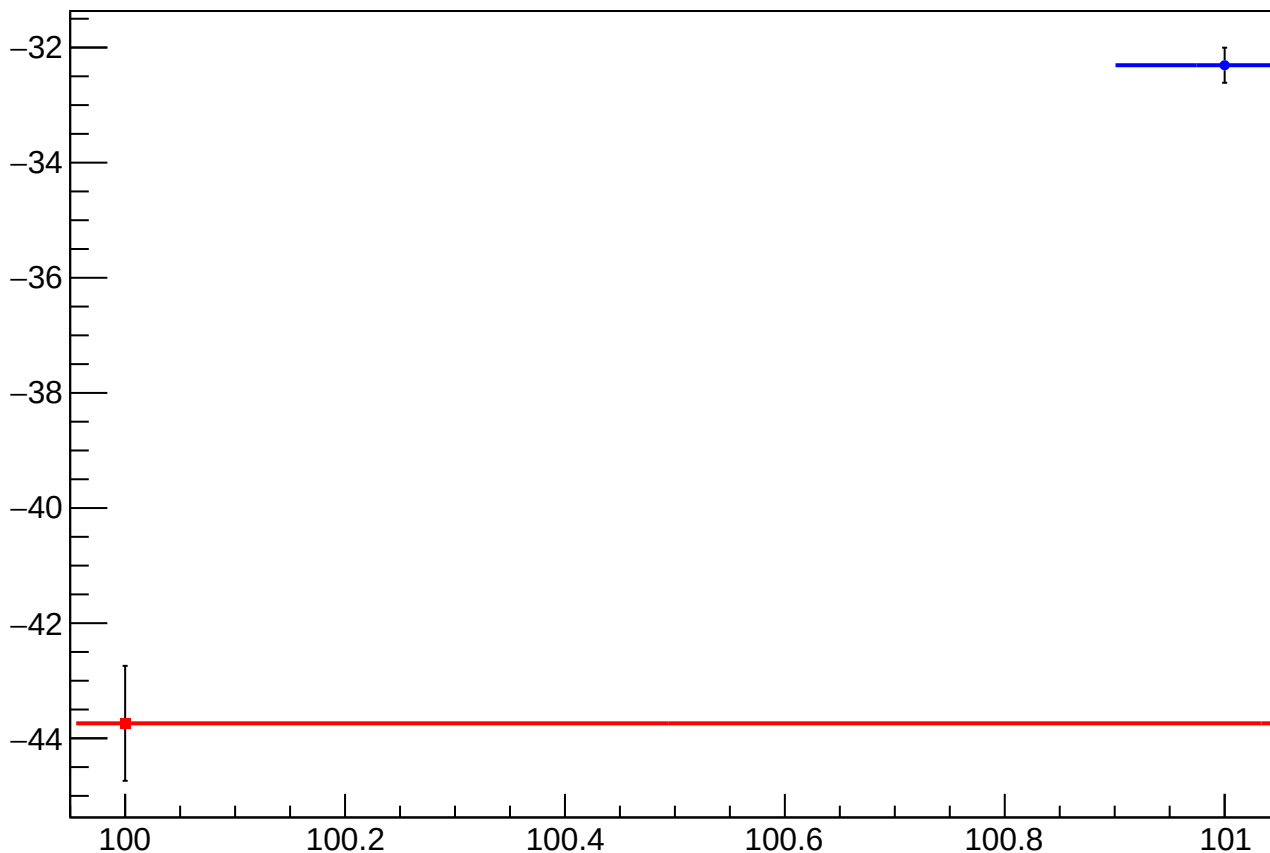
Right: -0.506 $\pm$ 0.013  $\chi^2$ /NDF: 24.0/1

In: -0.484 $\pm$ 0.014  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.506 $\pm$ 0.013  $\chi^2$ /NDF: 24.0/1

reg\_asym\_bcm\_dg\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -32.307 $\pm$ 0.305  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -43.740 $\pm$ 0.998  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

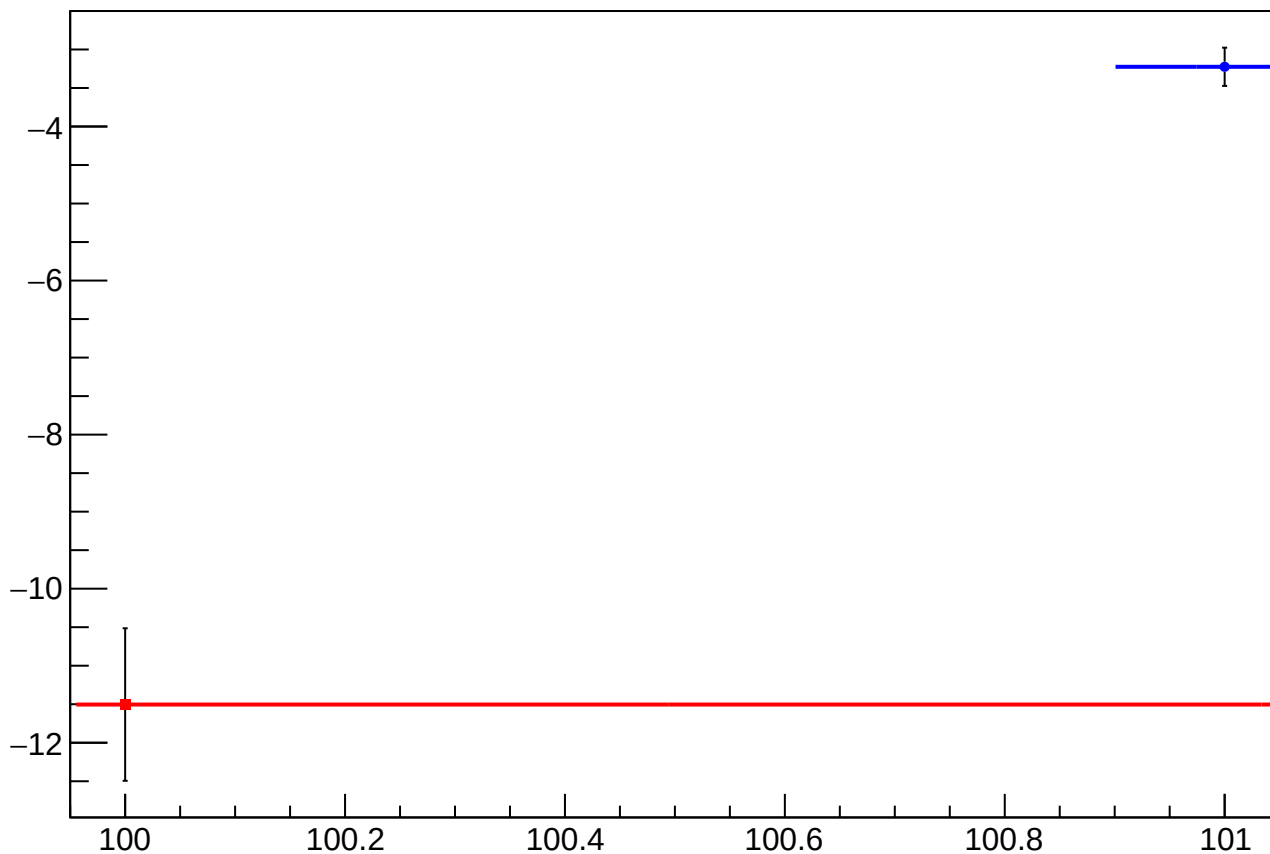
Right: -33.283 $\pm$ 0.292  $\chi^2$ /NDF: 119.9/1

In: -32.307 $\pm$ 0.305  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -33.283 $\pm$ 0.292  $\chi^2$ /NDF: 119.9/1

reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.225+/-0.248  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -11.504+/-0.990  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -3.715+/-0.241  $\chi^2/\text{NDF}$ : 65.8/1

In: -3.225+/-0.248  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.715+/-0.241  $\chi^2/\text{NDF}$ : 65.8/1

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 25.105 $\pm$ 0.238  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.776 $\pm$ 0.815  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

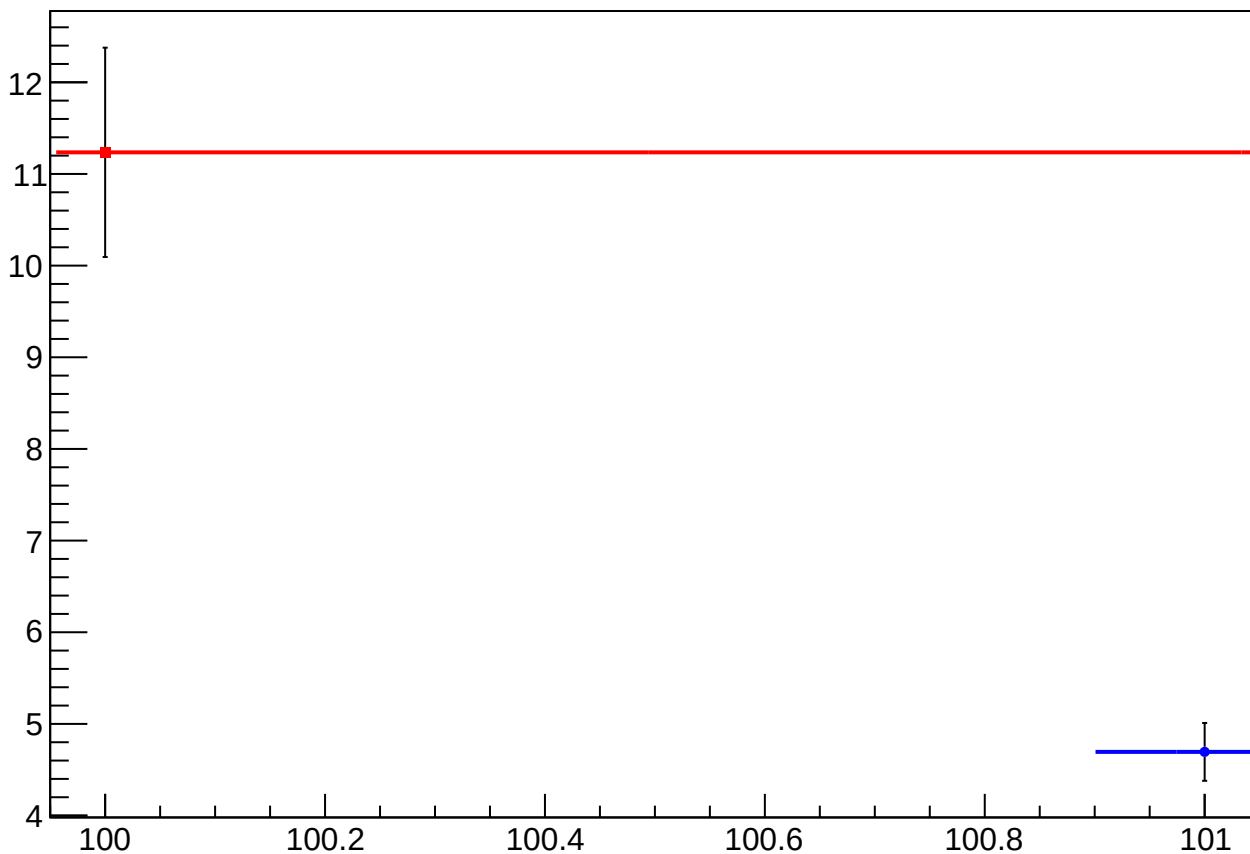
Right: 25.947 $\pm$ 0.229  $\chi^2/\text{NDF}$ : 158.0/1

In: 25.105 $\pm$ 0.238  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.947 $\pm$ 0.229  $\chi^2/\text{NDF}$ : 158.0/1

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.695 $\pm$ 0.315  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.236 $\pm$ 1.142  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

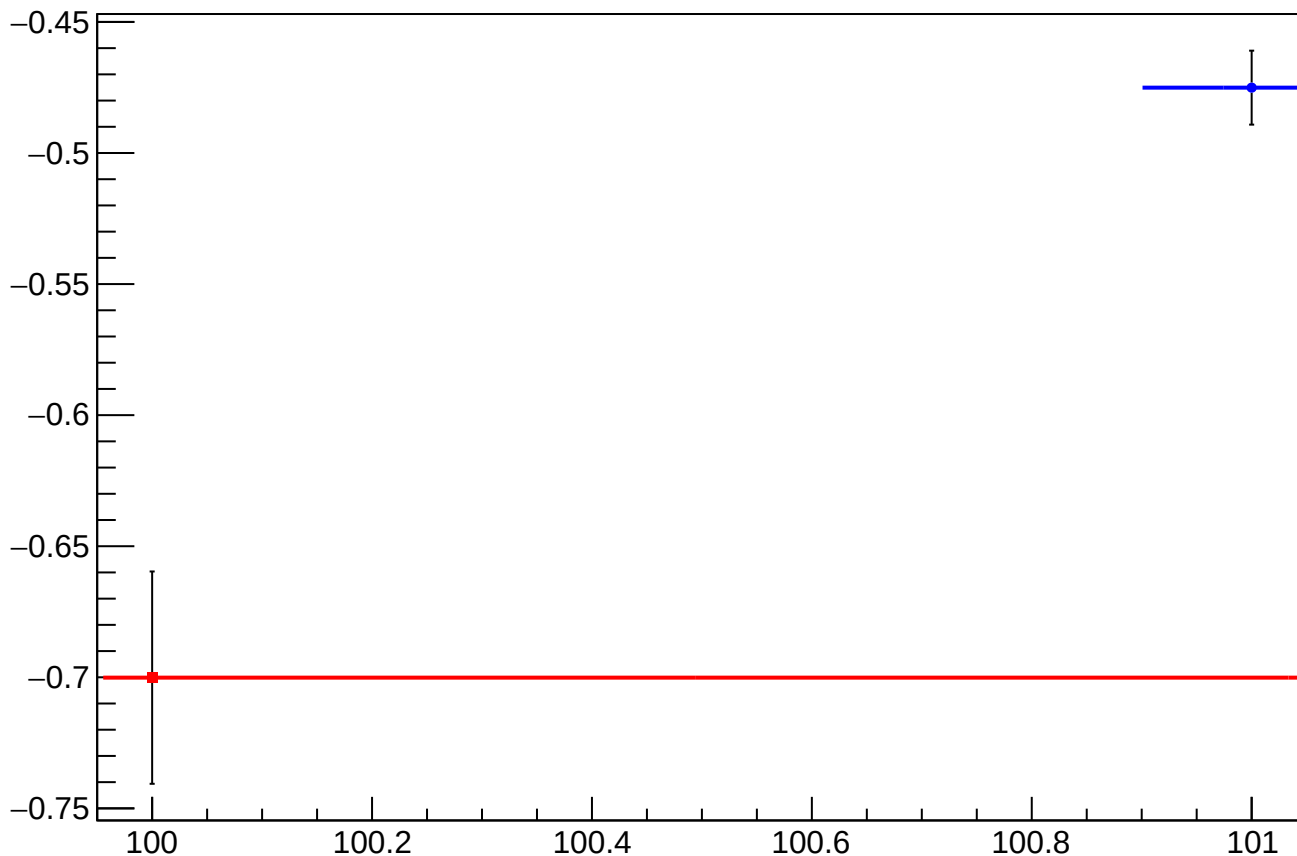
Right: 5.159 $\pm$ 0.304  $\chi^2$ /NDF: 30.5/1

In: 4.695 $\pm$ 0.315  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.159 $\pm$ 0.304  $\chi^2$ /NDF: 30.5/1

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.475 \pm 0.014$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-0.700 \pm 0.040$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

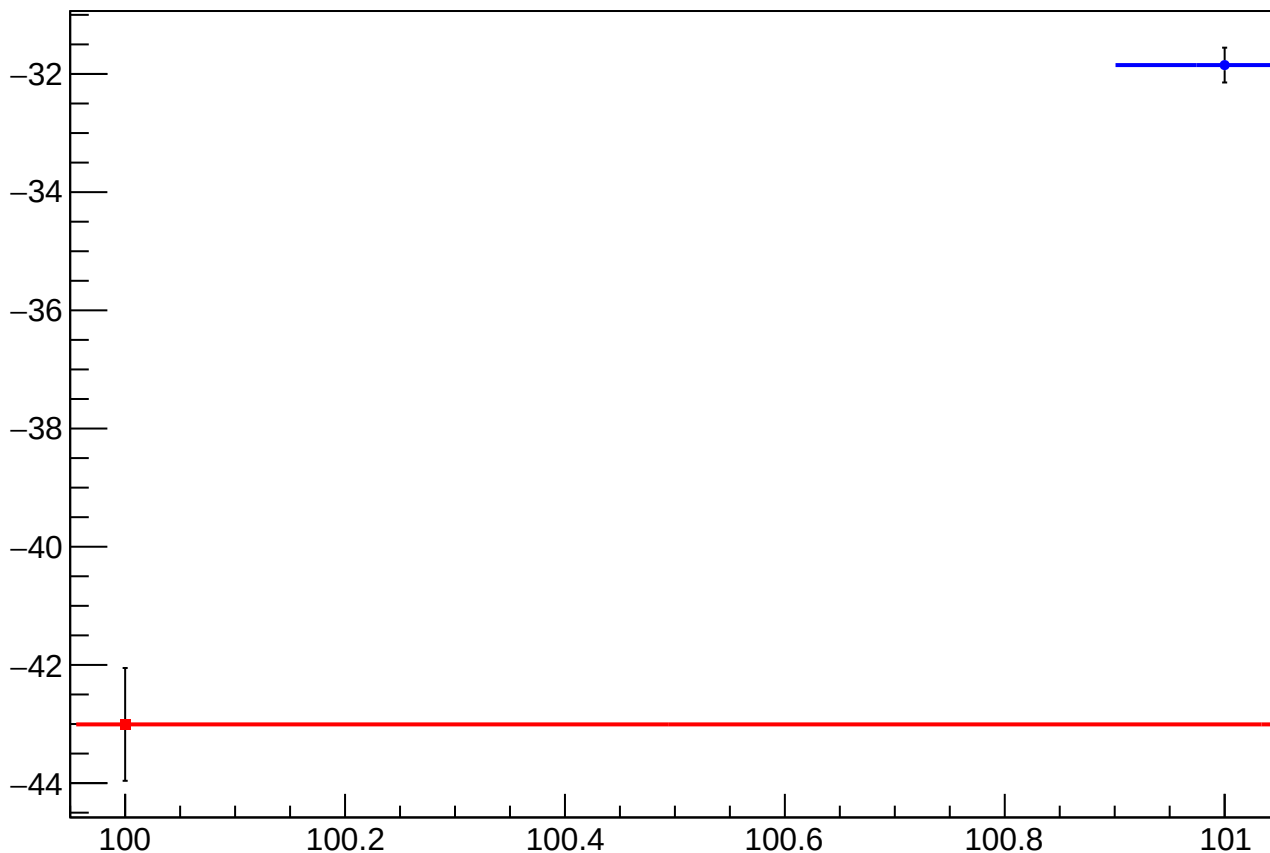
Right:  $-0.499 \pm 0.013$   $\chi^2/\text{NDF}: 27.5/1$

In:  $-0.475 \pm 0.014$   $\chi^2/\text{NDF}: 0.0/0$

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-0.499 \pm 0.013$   $\chi^2/\text{NDF}: 27.5/1$

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -31.850 $\pm$ 0.295  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -43.006 $\pm$ 0.954  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -32.820 $\pm$ 0.281  $\chi^2/\text{NDF}$ : 124.7/1

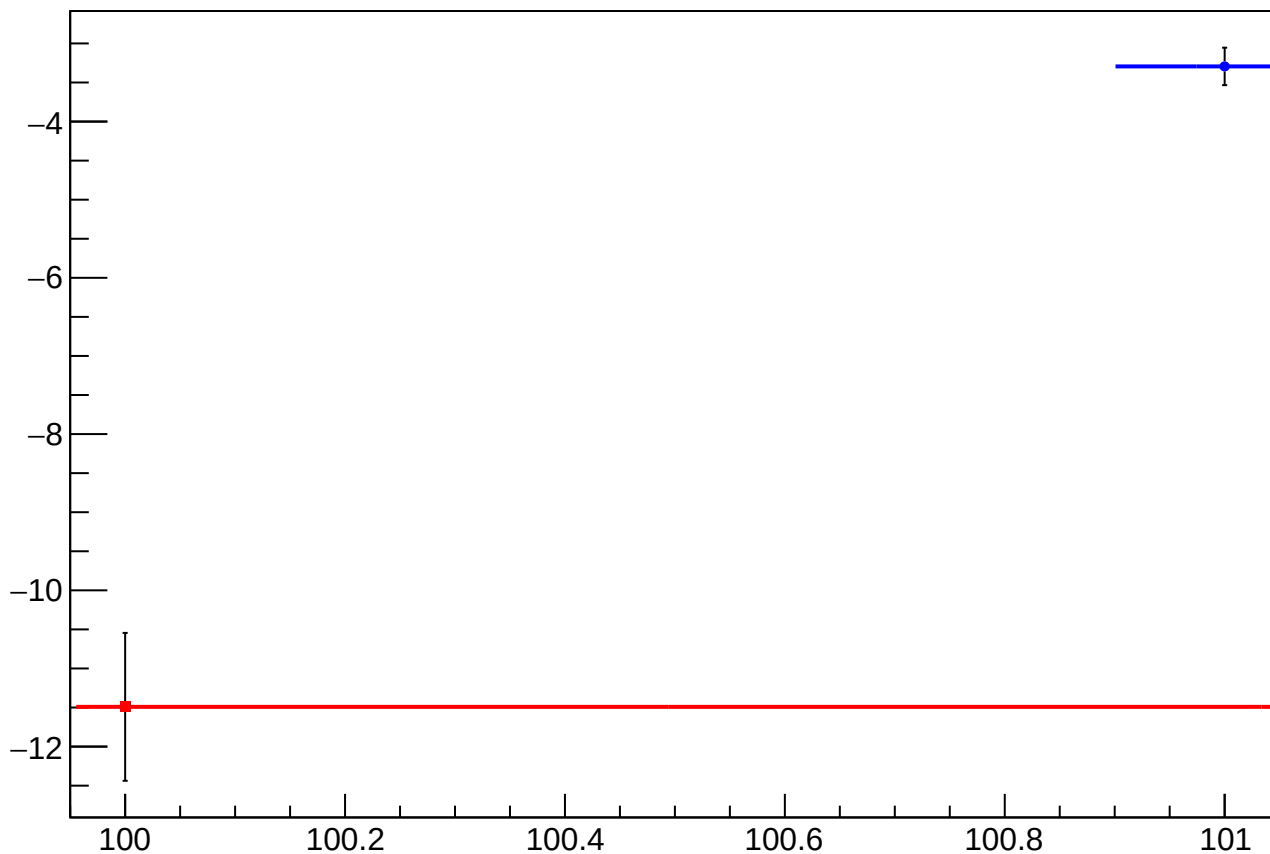
In: -31.850 $\pm$ 0.295  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.820 $\pm$ 0.281  $\chi^2/\text{NDF}$ : 124.7/1



reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Left:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right:  $-3.789 \pm 0.233$   $\chi^2/\text{NDF}$ : 70.5/1

In:  $-3.294 \pm 0.240$   $\chi^2/\text{NDF}$ : 0.0/0

Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3.789 \pm 0.233$   $\chi^2/\text{NDF}$ : 70.5/1

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 24.753+/-0.230  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 35.184+/-0.779  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

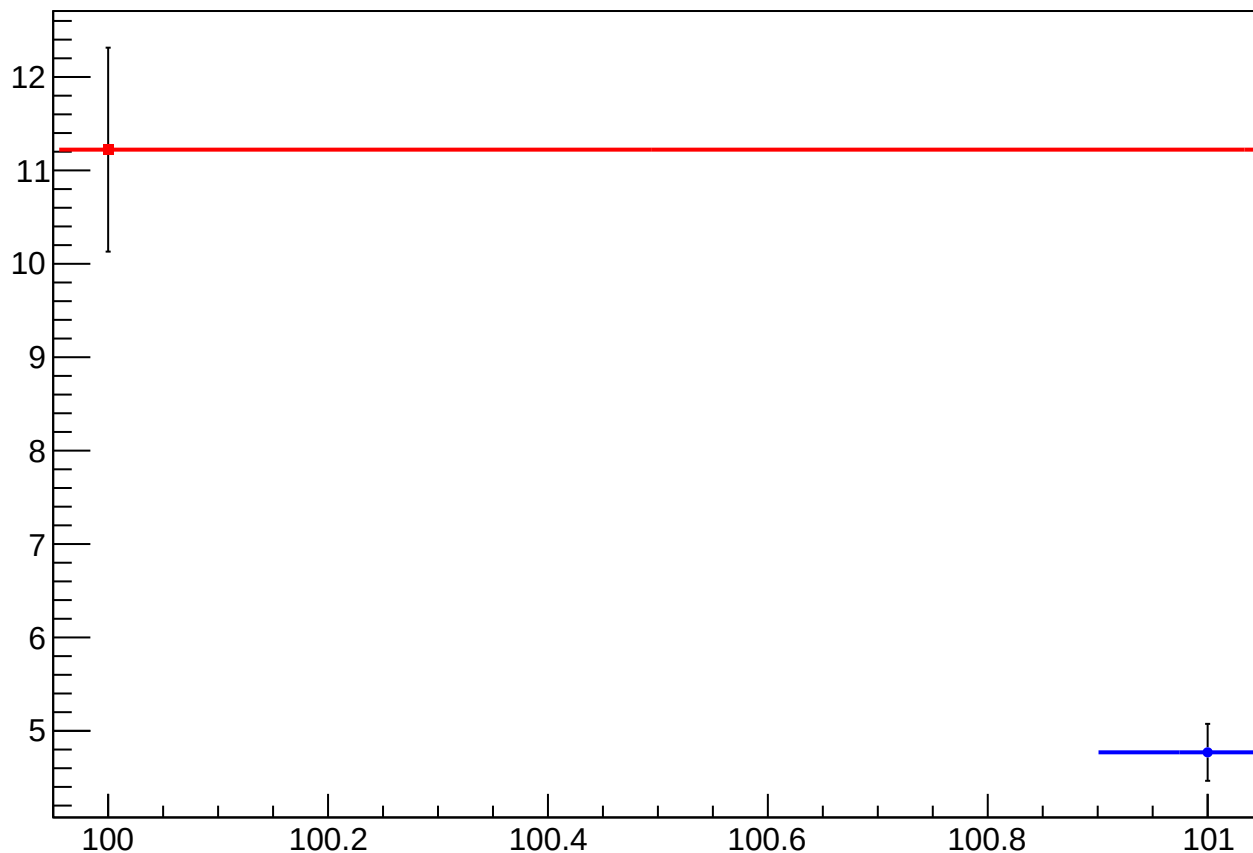
Right: 25.592+/-0.221  $\chi^2$ /NDF: 164.9/1

In: 24.753+/-0.230  $\chi^2$ /NDF: 0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 25.592+/-0.221  $\chi^2$ /NDF: 164.9/1

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.770 $\pm$ 0.305  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 11.222 $\pm$ 1.092  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

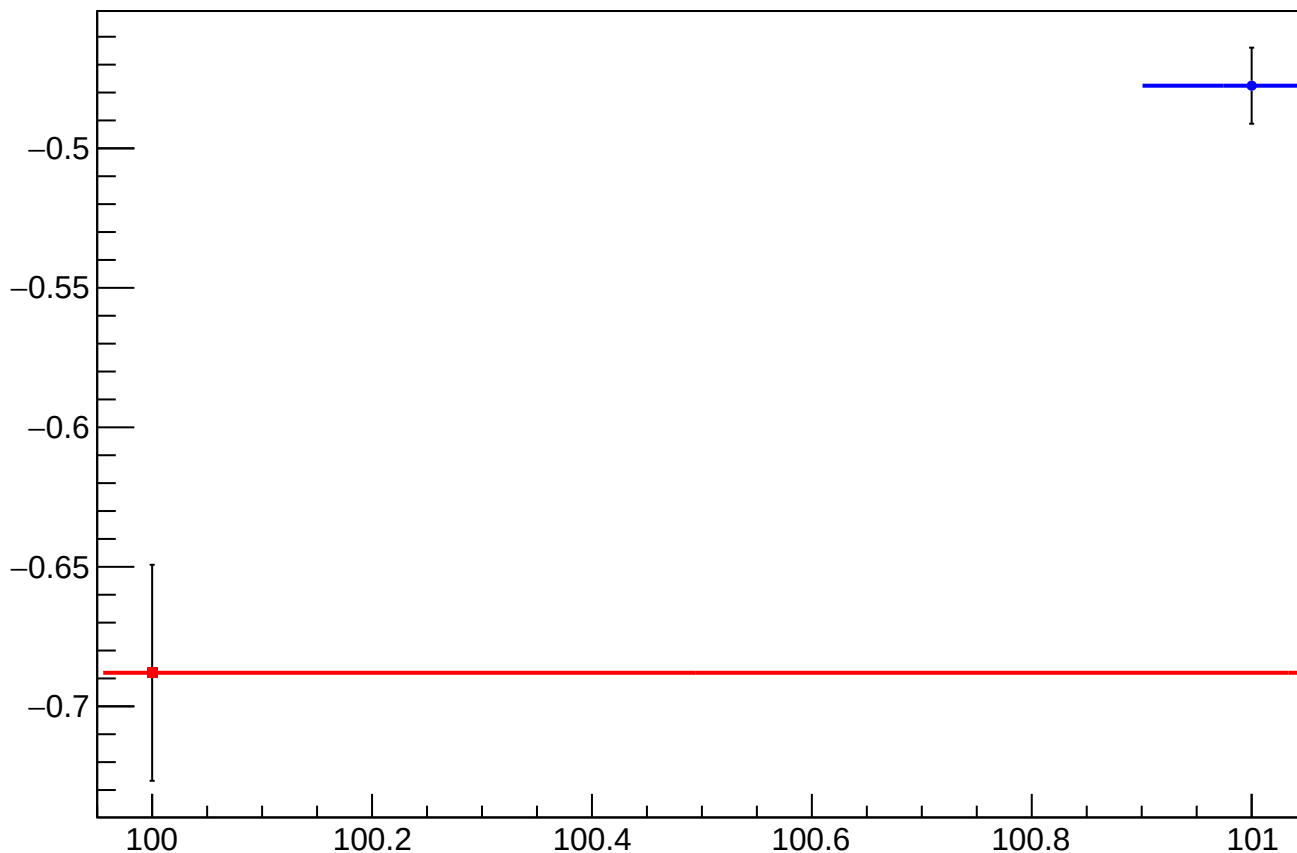
Right: 5.237 $\pm$ 0.294  $\chi^2$ /NDF: 32.4/1

In: 4.770 $\pm$ 0.305  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 5.237 $\pm$ 0.294  $\chi^2$ /NDF: 32.4/1

reg\_asym\_bcm\_2an\_us\_an\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.478+/-0.014  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.688+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

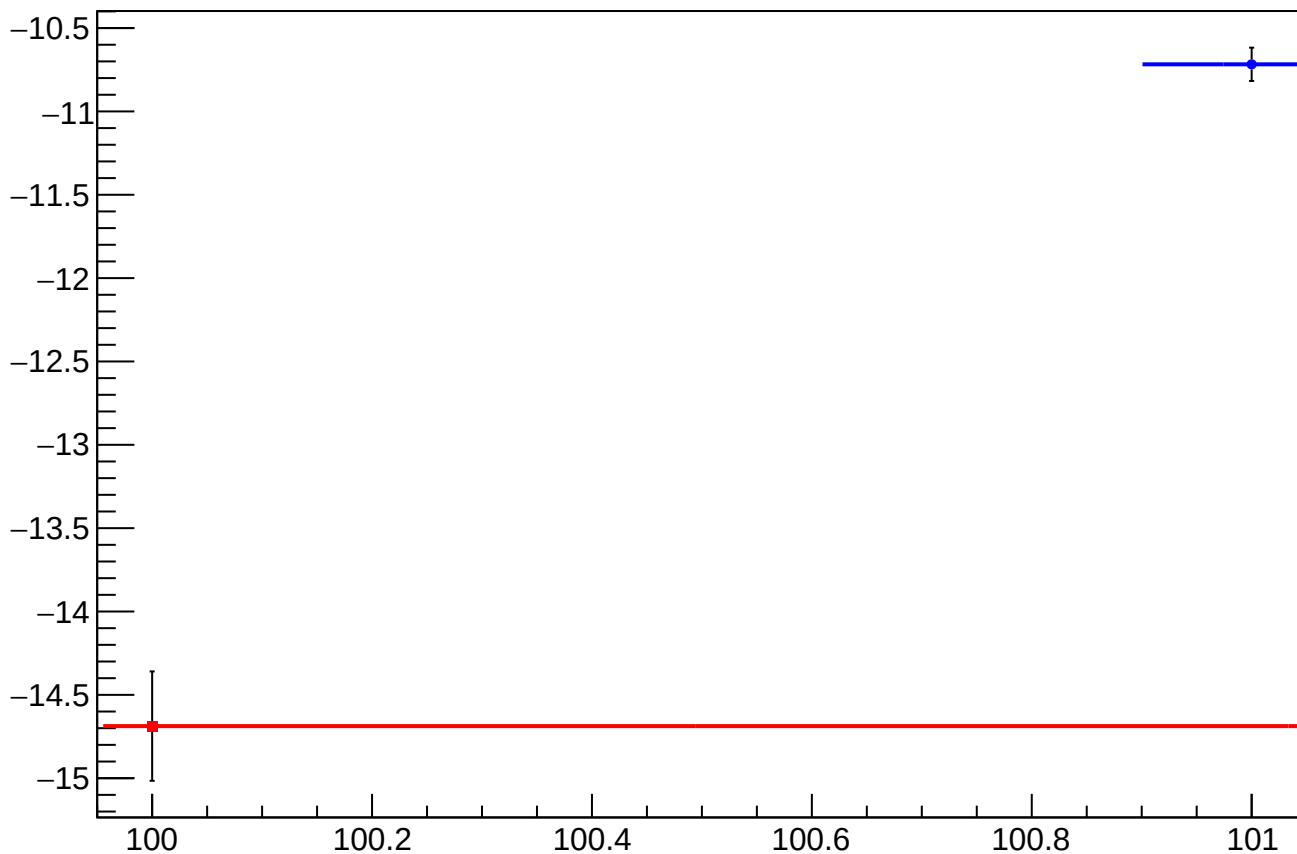
Right: -0.501+/-0.013  $\chi^2/\text{NDF}$ : 26.3/1

In: -0.478+/-0.014  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.501+/-0.013  $\chi^2/\text{NDF}$ : 26.3/1

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -10.717 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -14.687 $\pm$ 0.328  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

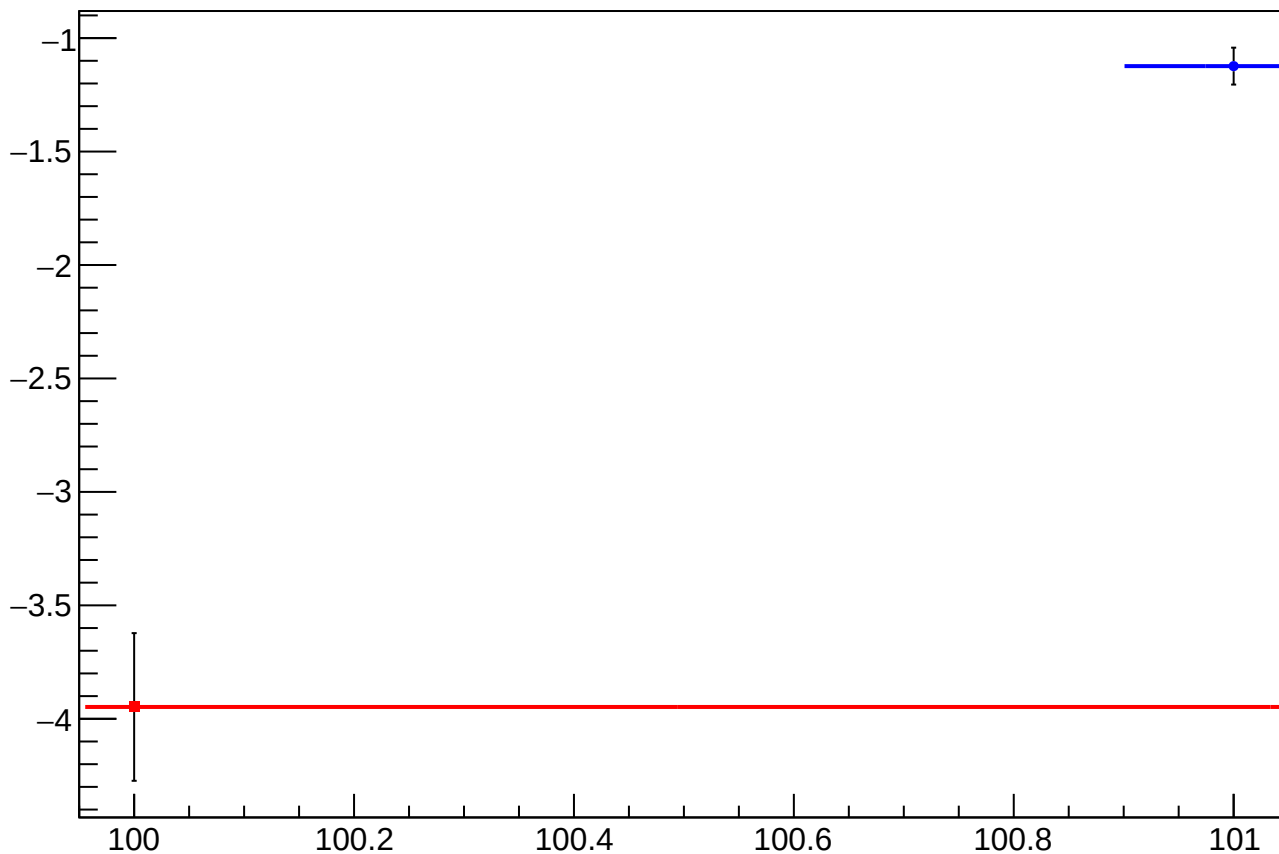
Right: -11.054 $\pm$ 0.096  $\chi^2$ /NDF: 134.0/1

In: -10.717 $\pm$ 0.100  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.054 $\pm$ 0.096  $\chi^2$ /NDF: 134.0/1

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -1.123+/-0.081  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.948+/-0.325  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

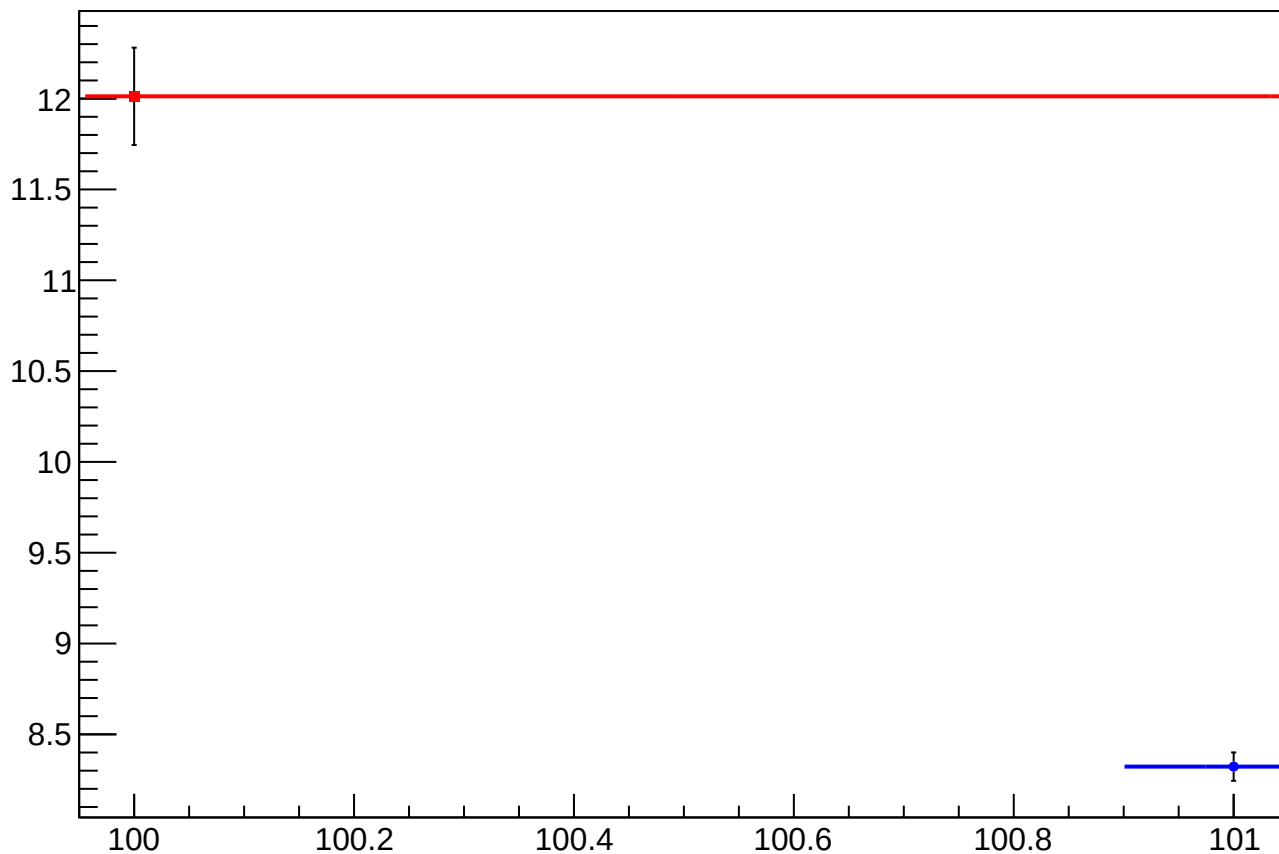
Right: -1.289+/-0.079  $\chi^2/\text{NDF}$ : 70.9/1

In: -1.123+/-0.081  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.289+/-0.079  $\chi^2/\text{NDF}$ : 70.9/1

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 8.322 $\pm$ 0.078  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 12.013 $\pm$ 0.268  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

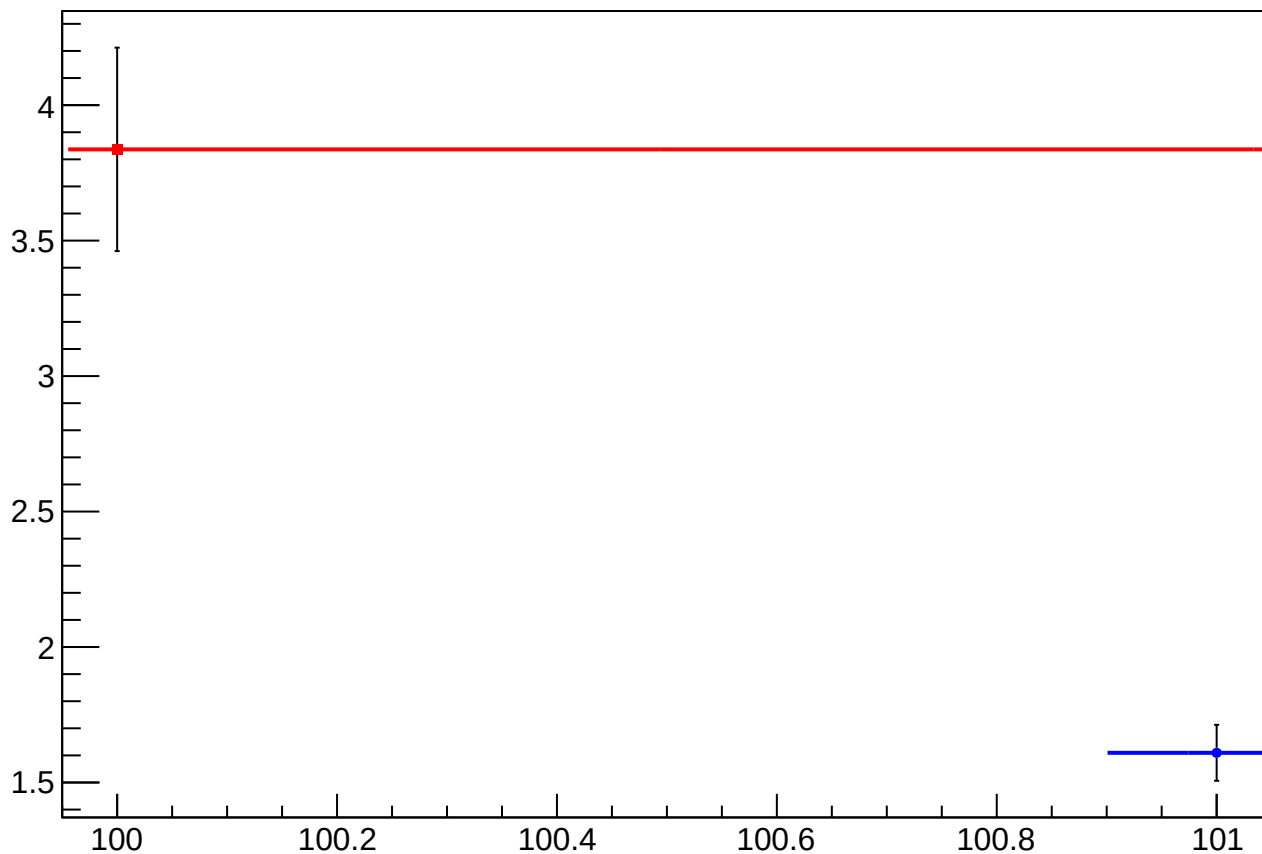
Right: 8.612 $\pm$ 0.075  $\chi^2$ /NDF: 175.0/1

In: 8.322 $\pm$ 0.078  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 8.612 $\pm$ 0.075  $\chi^2$ /NDF: 175.0/1

reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 1.610 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.837 $\pm$ 0.375  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right: 1.766 $\pm$ 0.100  $\chi^2$ /NDF: 32.7/1

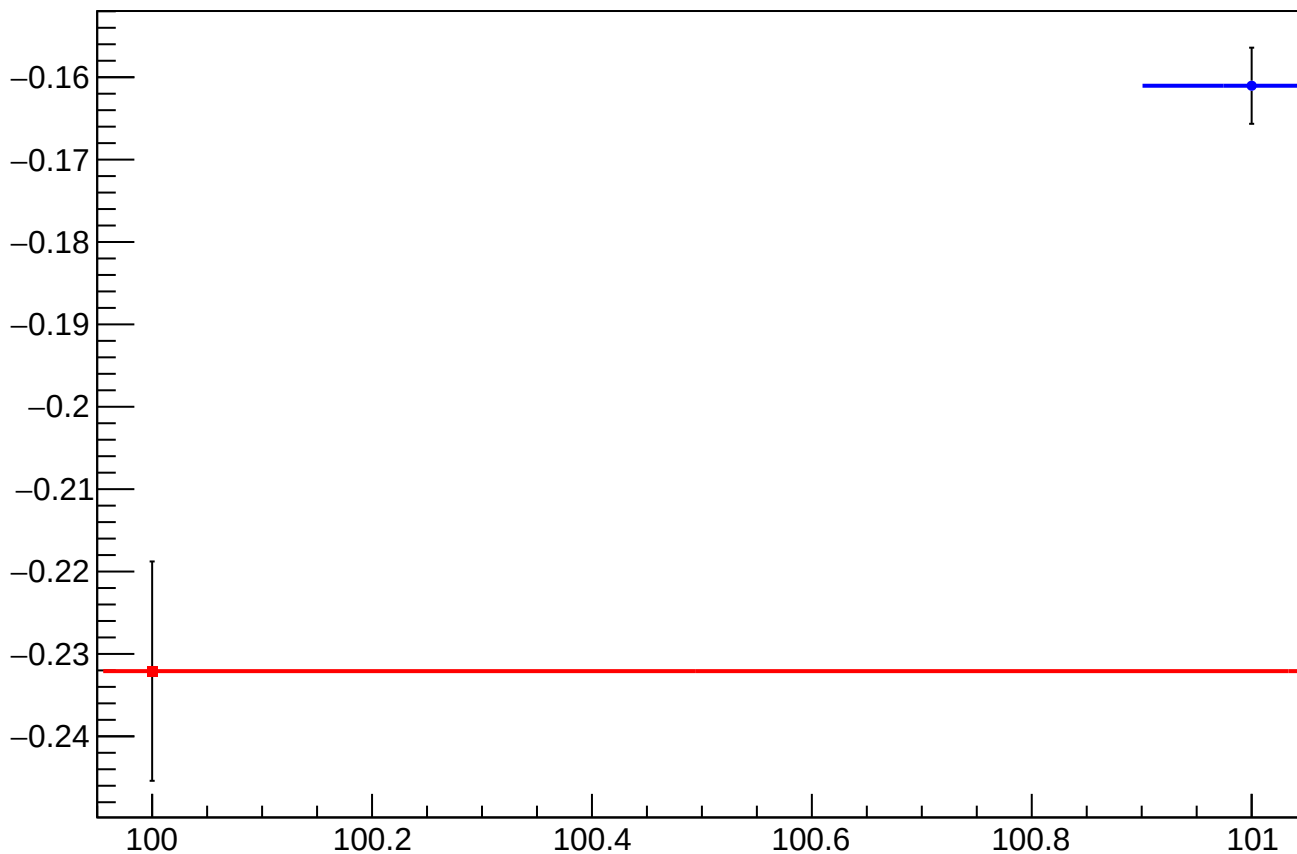
In: 1.610 $\pm$ 0.103  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.766 $\pm$ 0.100  $\chi^2$ /NDF: 32.7/1



reg\_asym\_bcm\_2an\_us\_an\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.161 $\pm$ 0.005  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.232 $\pm$ 0.013  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

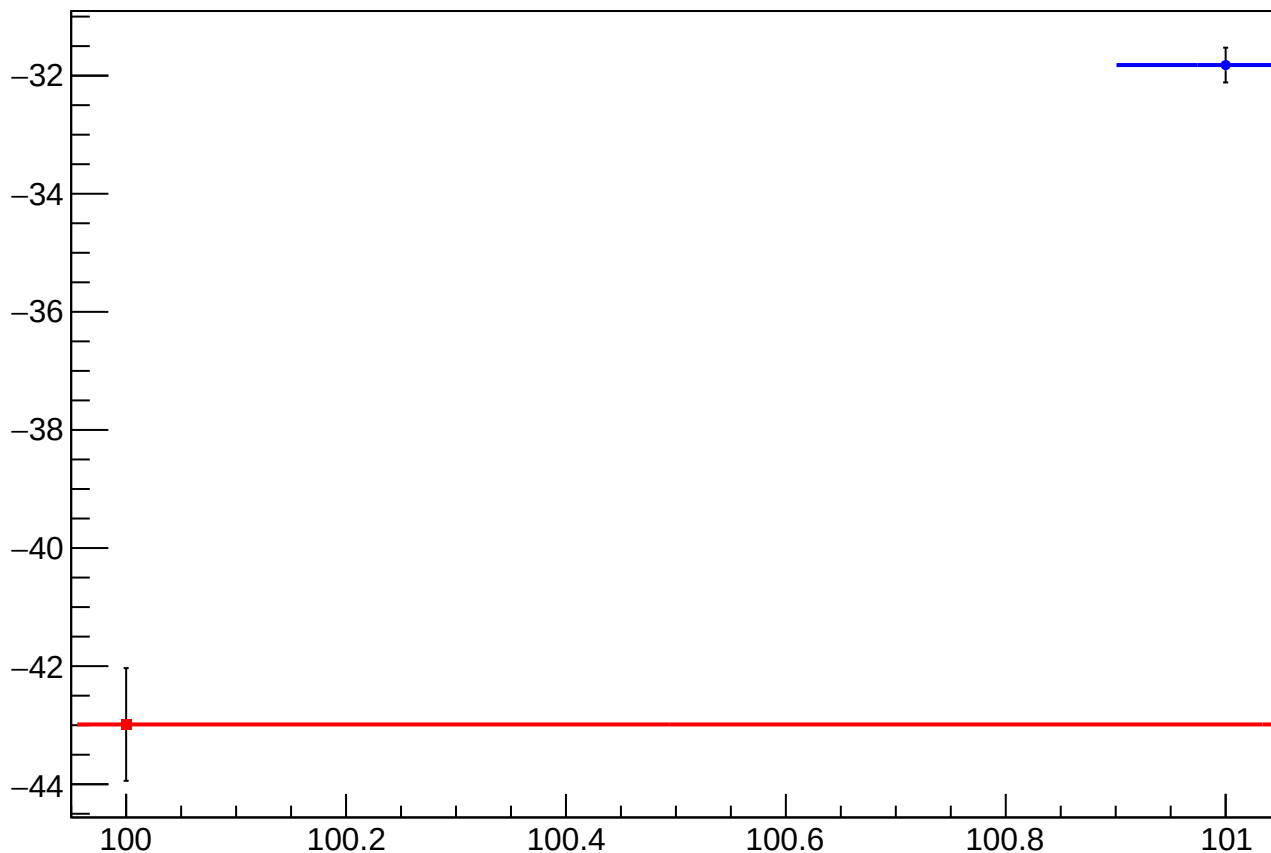
Right: -0.169 $\pm$ 0.004  $\chi^2$ /NDF: 25.4/1

In: -0.161 $\pm$ 0.005  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: -0.169 $\pm$ 0.004  $\chi^2$ /NDF: 25.4/1

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -31.821 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -42.988 $\pm$ 0.954  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

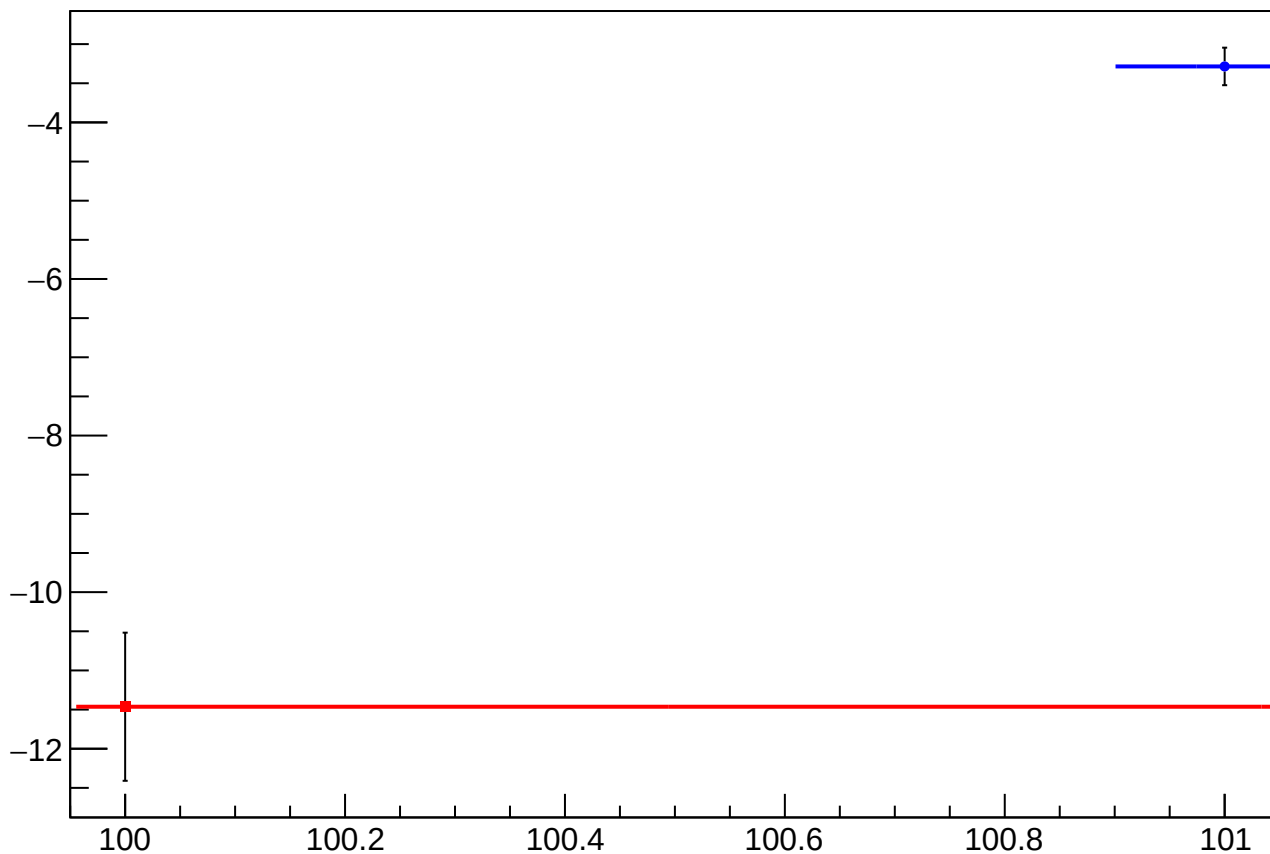
Right: -32.791 $\pm$ 0.281  $\chi^2$ /NDF: 125.1/1

In: -31.821 $\pm$ 0.294  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -32.791 $\pm$ 0.281  $\chi^2$ /NDF: 125.1/1

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -3.285+/-0.240  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -11.464+/-0.946  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right: -3.778+/-0.232  $\chi^2$ /NDF: 70.2/1

In: -3.285+/-0.240  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: -3.778+/-0.232  $\chi^2$ /NDF: 70.2/1

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 24.733+/-0.230  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 35.170+/-0.779  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

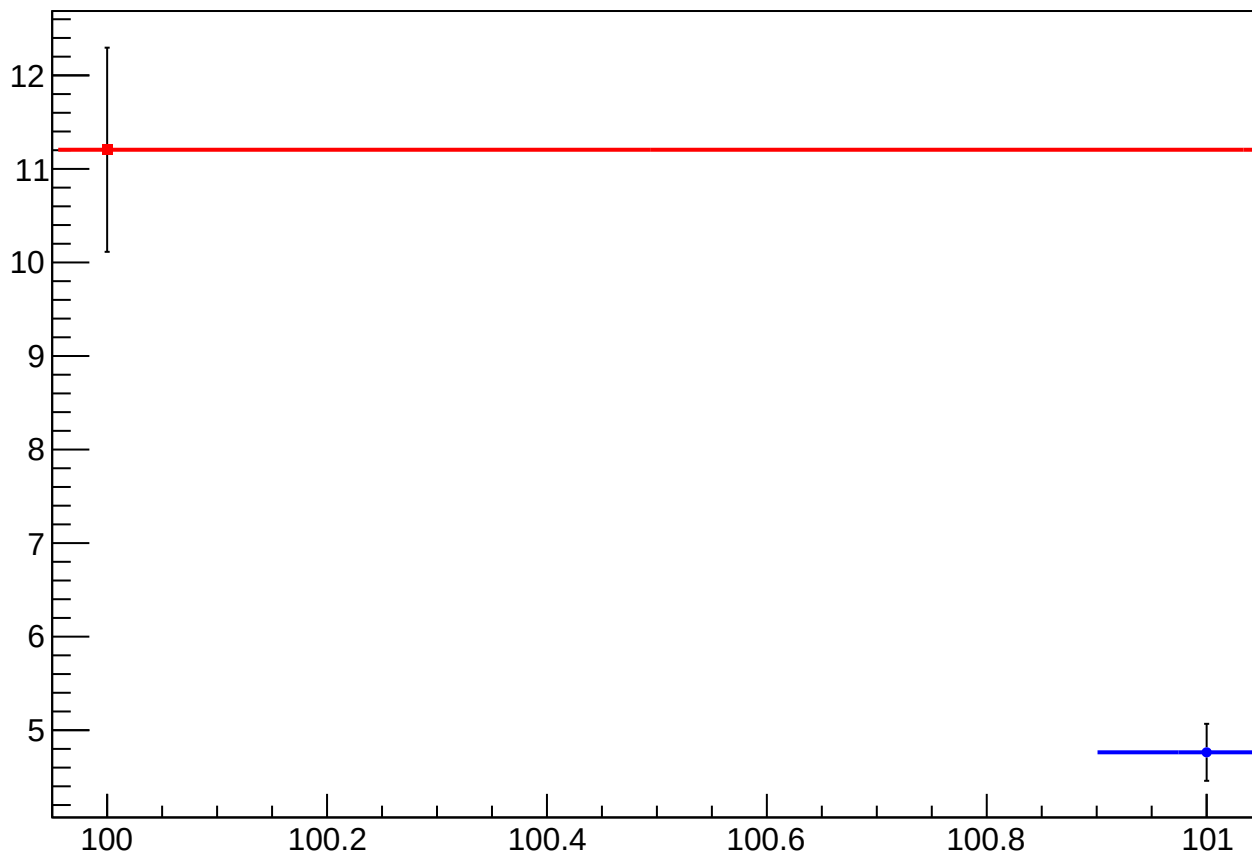
Right: 25.571+/-0.221  $\chi^2/\text{NDF}$ : 165.2/1

In: 24.733+/-0.230  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 25.571+/-0.221  $\chi^2/\text{NDF}$ : 165.2/1

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.763+/-0.304  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 11.205+/-1.091  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

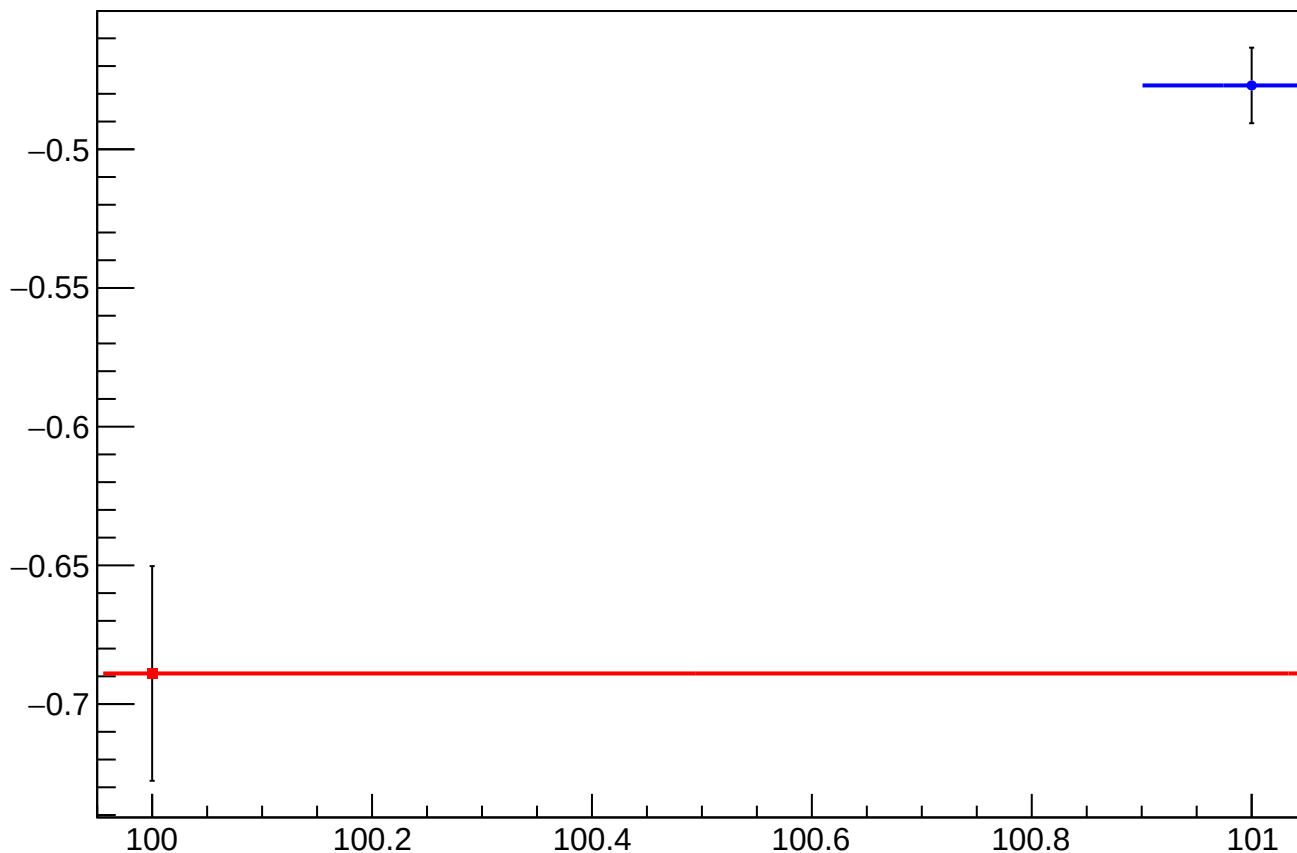
Right: 5.229+/-0.293  $\chi^2/\text{NDF}$ : 32.3/1

In: 4.763+/-0.304  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.229+/-0.293  $\chi^2/\text{NDF}$ : 32.3/1

reg\_asym\_bcm\_an\_us\_an\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.477+/-0.014  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.689+/-0.039  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

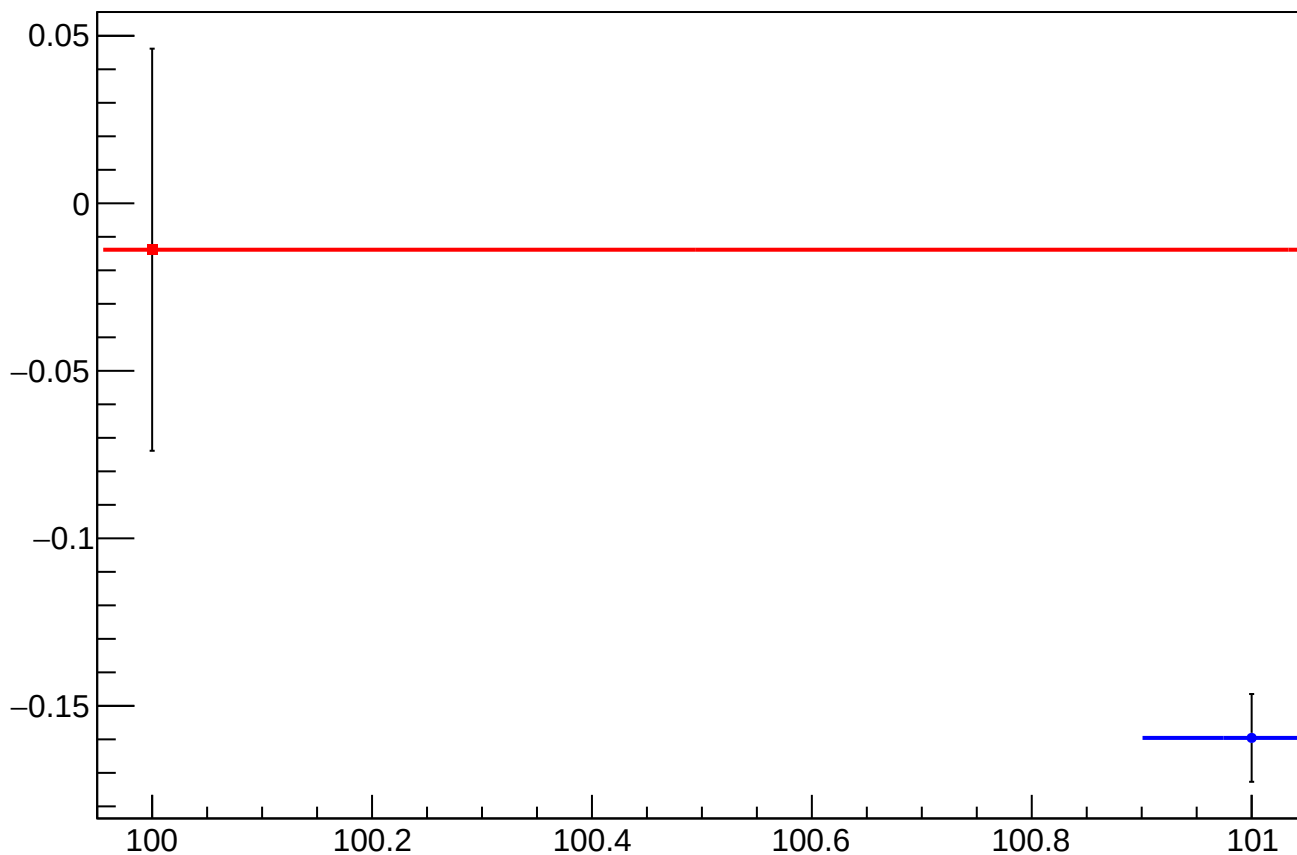
Right: -0.500+/-0.013  $\chi^2/\text{NDF}$ : 26.7/1

In: -0.477+/-0.014  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.500+/-0.013  $\chi^2/\text{NDF}$ : 26.7/1

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: -0.160+/-0.013  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.014+/-0.060  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

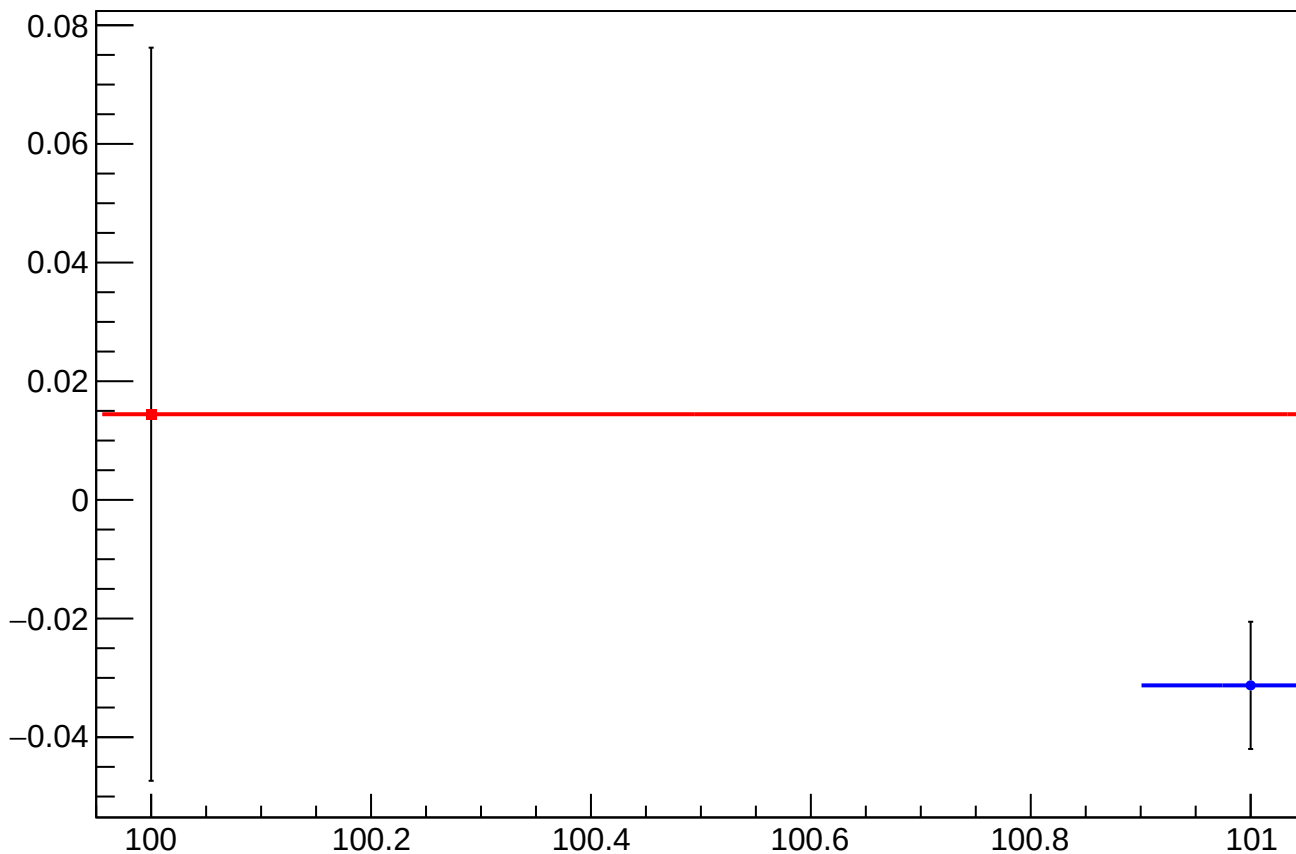
Right: -0.153+/-0.013  $\chi^2/\text{NDF}$ : 5.6/1

In: -0.160+/-0.013  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.153+/-0.013  $\chi^2/\text{NDF}$ : 5.6/1

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -0.031 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: -0.030 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 0.5/1

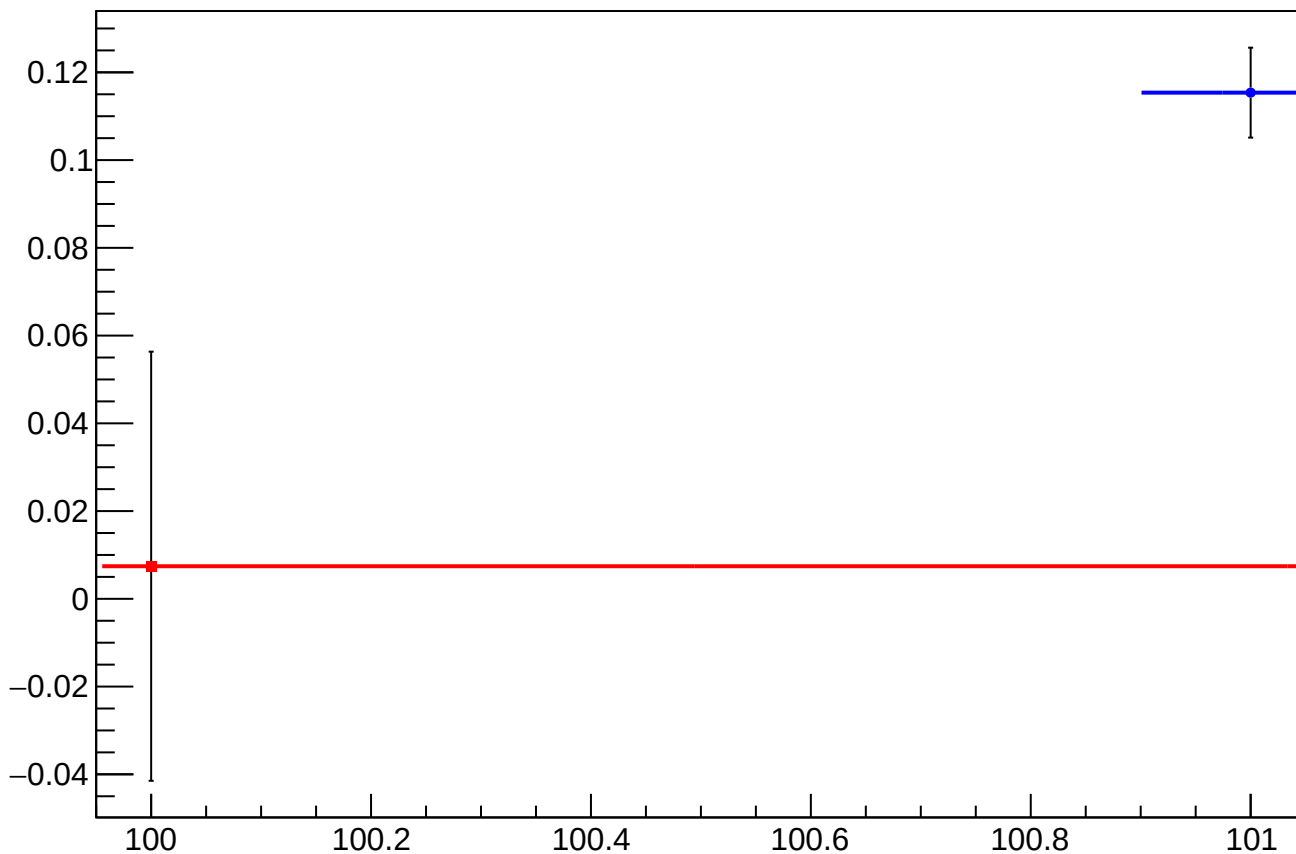
In: -0.031 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.030 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 0.5/1



reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.115 $\pm$ 0.010  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.007 $\pm$ 0.049  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

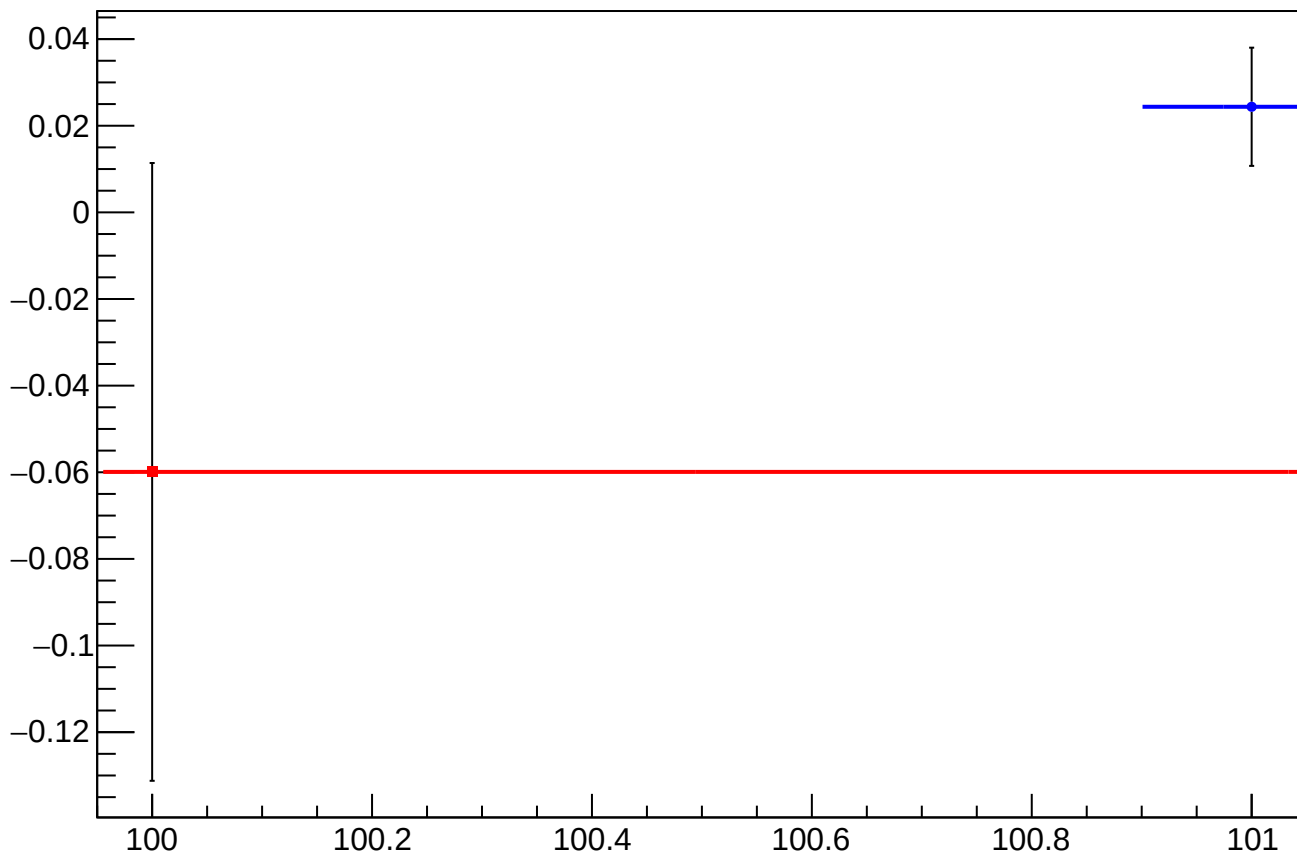
Right: 0.111 $\pm$ 0.010  $\chi^2$ /NDF: 4.7/1

In: 0.115 $\pm$ 0.010  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.111 $\pm$ 0.010  $\chi^2$ /NDF: 4.7/1

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.024+/-0.014  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.060+/-0.071  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

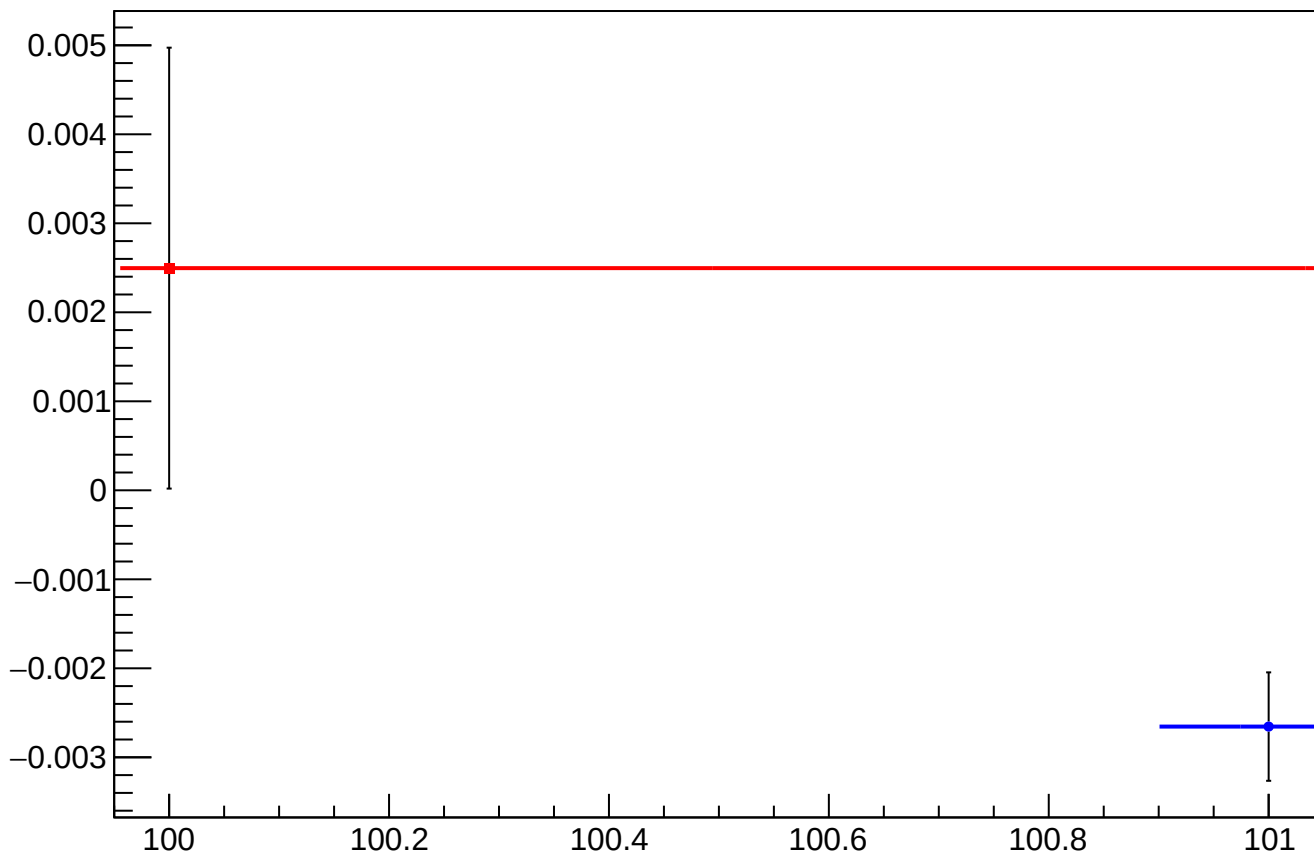
Right: 0.021+/-0.013  $\chi^2/\text{NDF}$ : 1.3/1

In: 0.024+/-0.014  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.021+/-0.013  $\chi^2/\text{NDF}$ : 1.3/1

reg\_asym\_bcm\_an\_us\_an\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.003 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002 $\pm$ 0.002  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

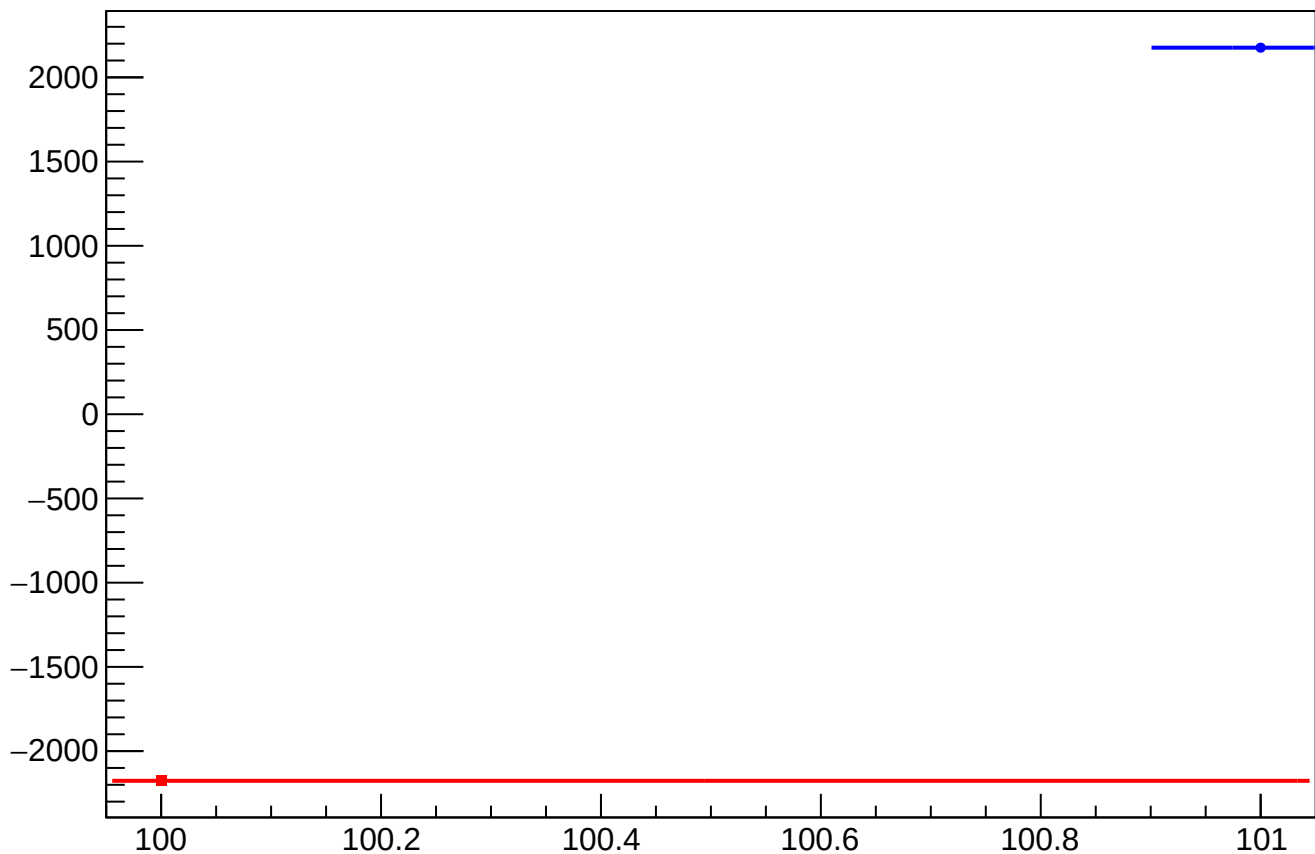
Right: -0.002 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 4.1/1

In: -0.003 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.002 $\pm$ 0.001  $\chi^2/\text{NDF}$ : 4.1/1

# HALLA\_p\_mean vs Slug, Sign Corrected



Right In: 2176.285 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2176.318 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

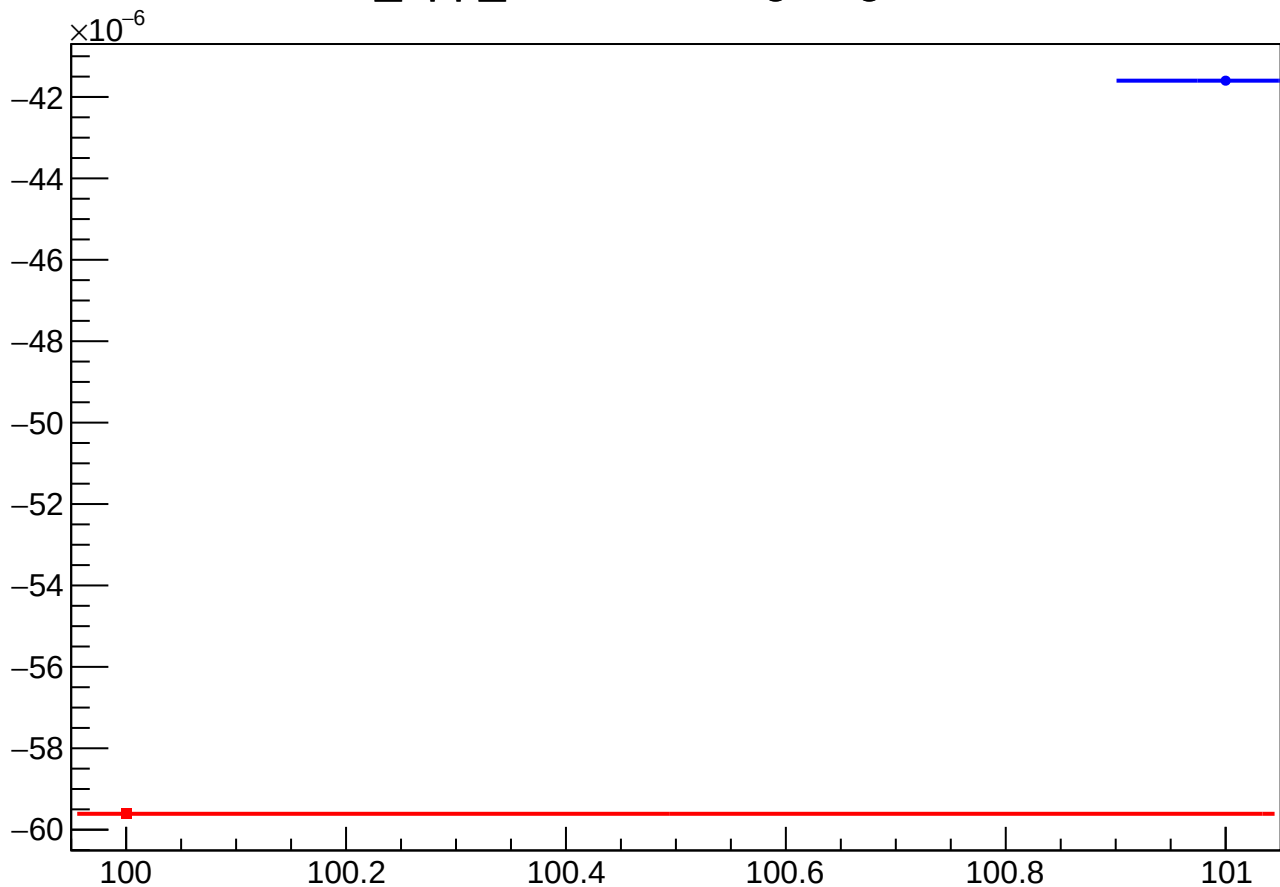
Right: 1753.115 $\pm$ 0.000  $\chi^2$ /NDF: 11972285192934

In: 2176.285 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1753.115 $\pm$ 0.000  $\chi^2$ /NDF: 11972285192934

# HALLA\_dpp\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

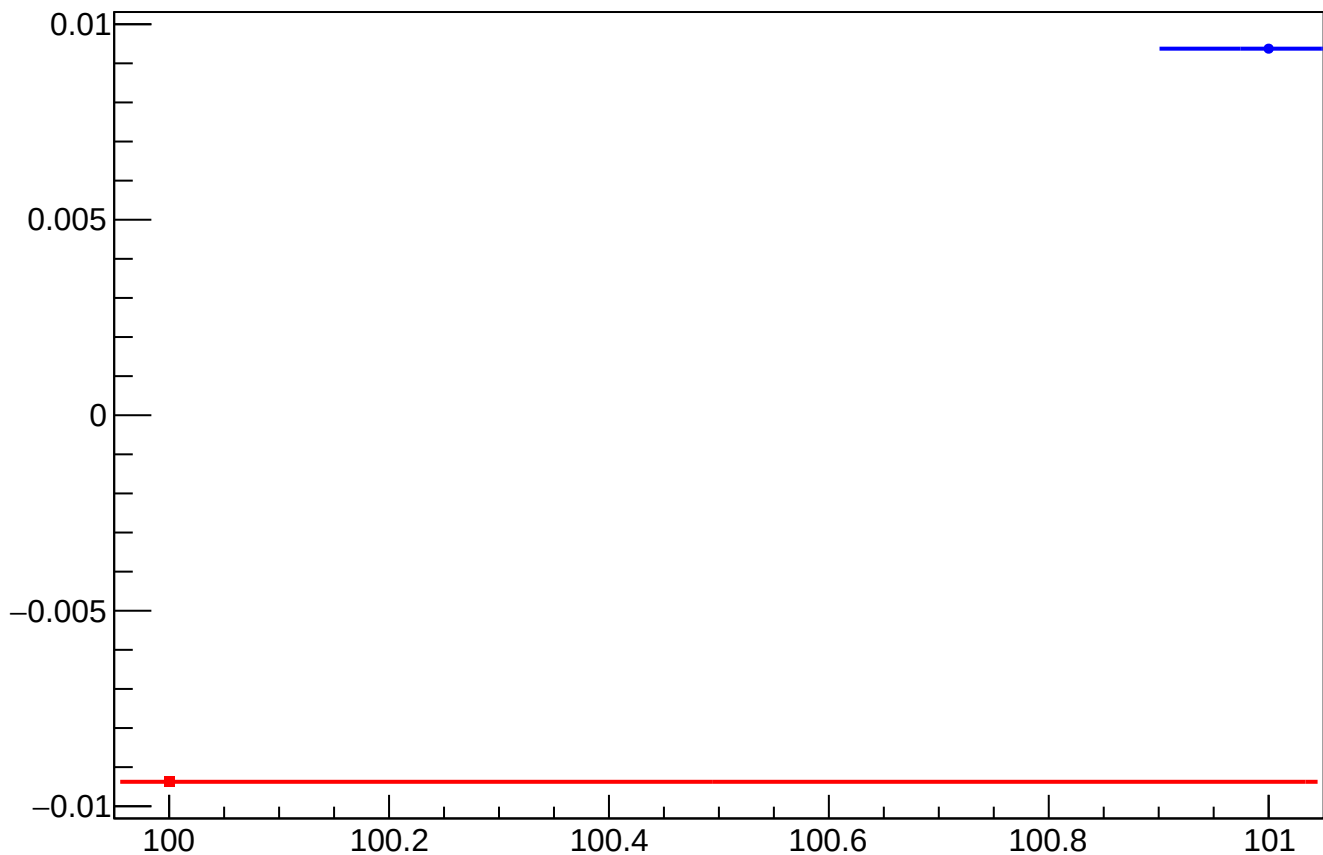
Right: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2049688084268182

In: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 2049688084268

# MQ171LM\_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

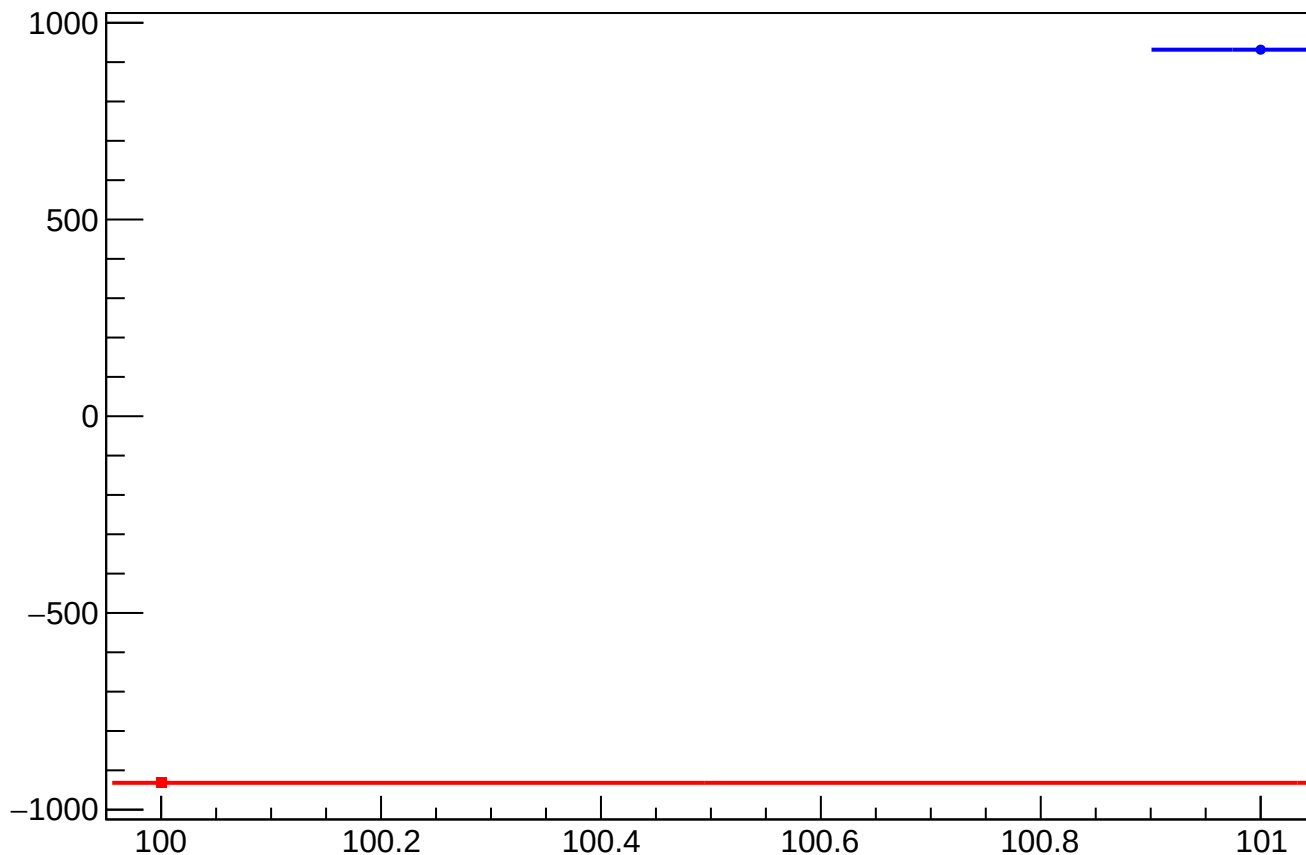
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984

# HacL\_Q2\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 931.692 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -931.691 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

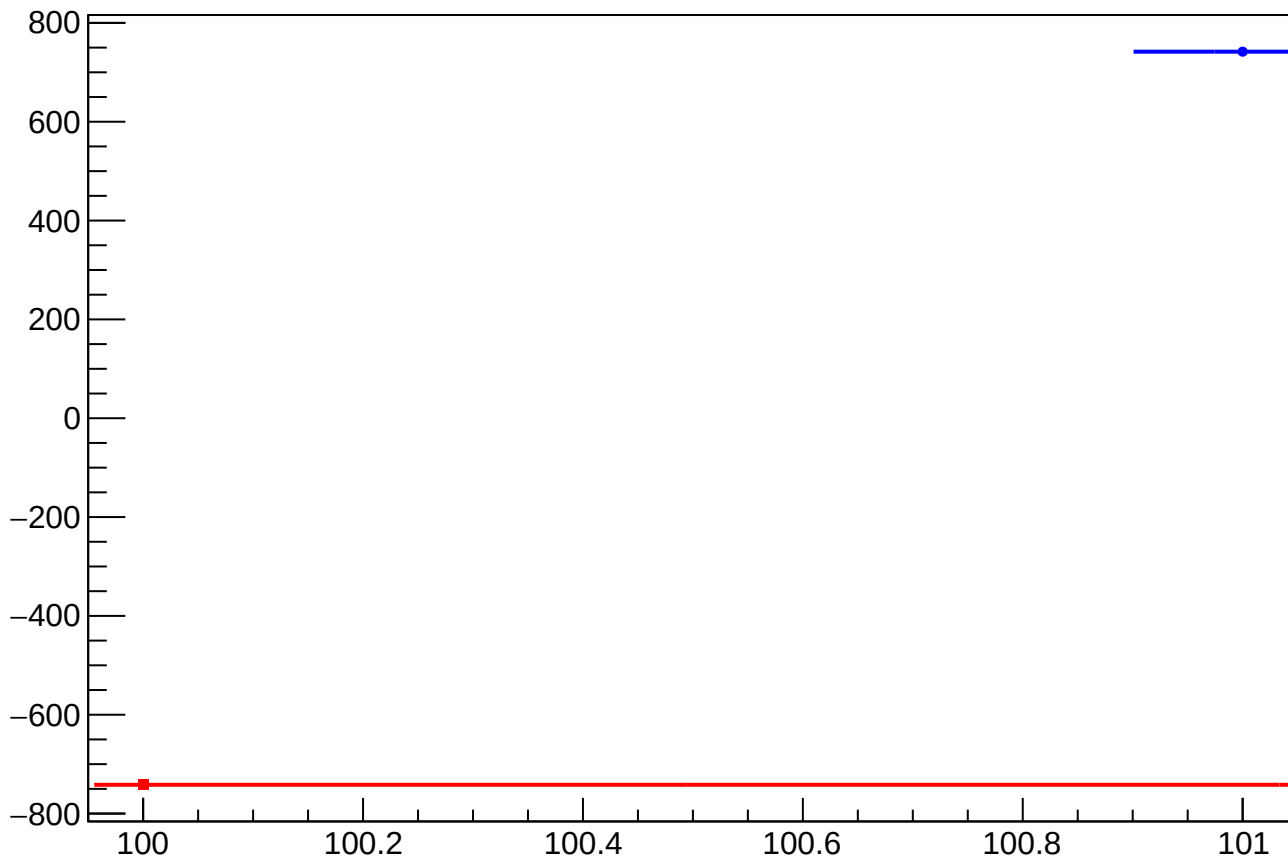
Right: 750.529 $\pm$ 0.000  $\chi^2$ /NDF: 219423432253631

In: 931.692 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 750.529 $\pm$ 0.000  $\chi^2$ /NDF: 219423432253631

# HacL\_D1\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 741.774+/-0.000  $\chi^2/\text{NDF}$ : 3360421.2/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -741.786+/-0.000  $\chi^2/\text{NDF}$ : 90472.9/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 597.539+/-0.000  $\chi^2/\text{NDF}$ : 139087890766125

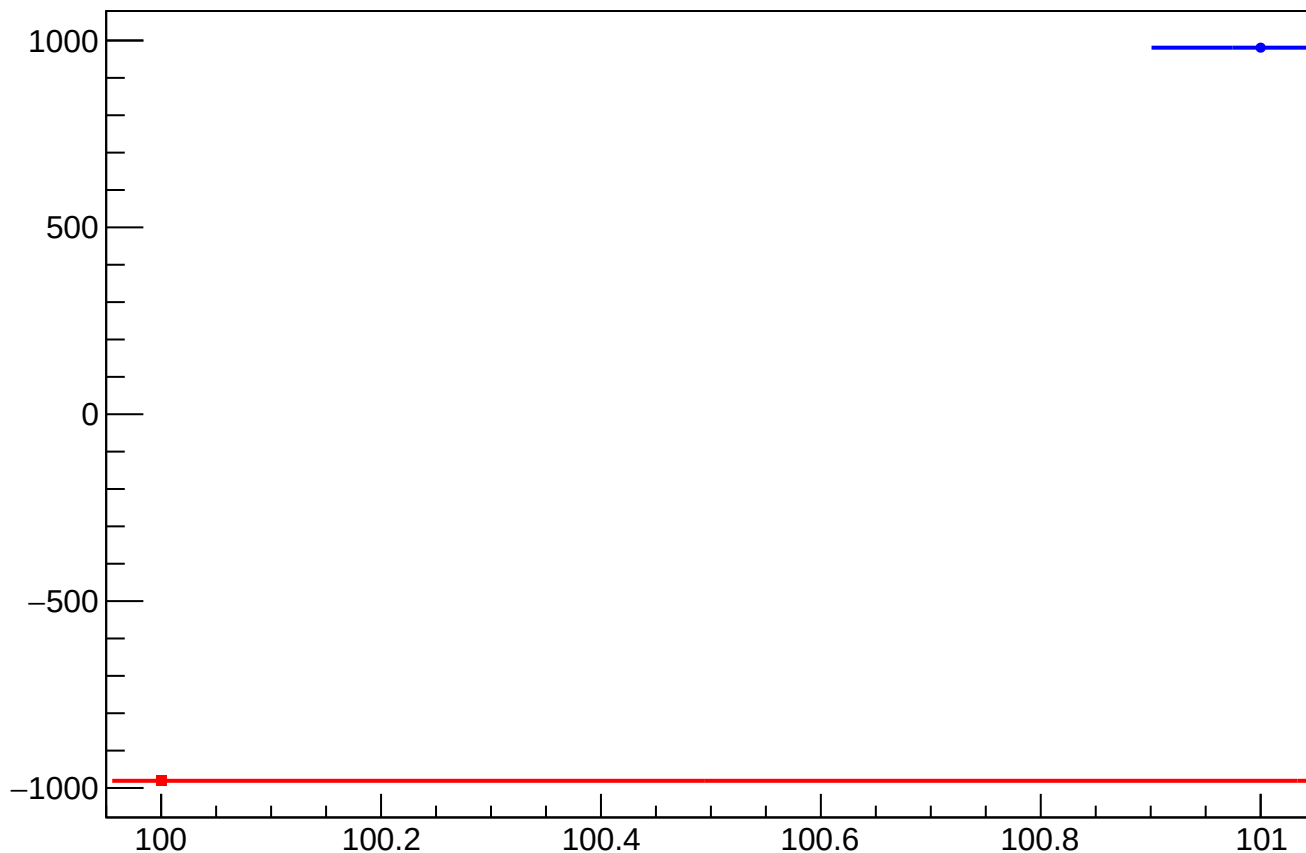
In: 741.774+/-0.000  $\chi^2/\text{NDF}$ : 3360421.2/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 597.539+/-0.000  $\chi^2/\text{NDF}$ : 139087890766



# HacL\_Q3\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 980.806+/-0.000  $\chi^2/\text{NDF}$ : 840105.3/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -980.785+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

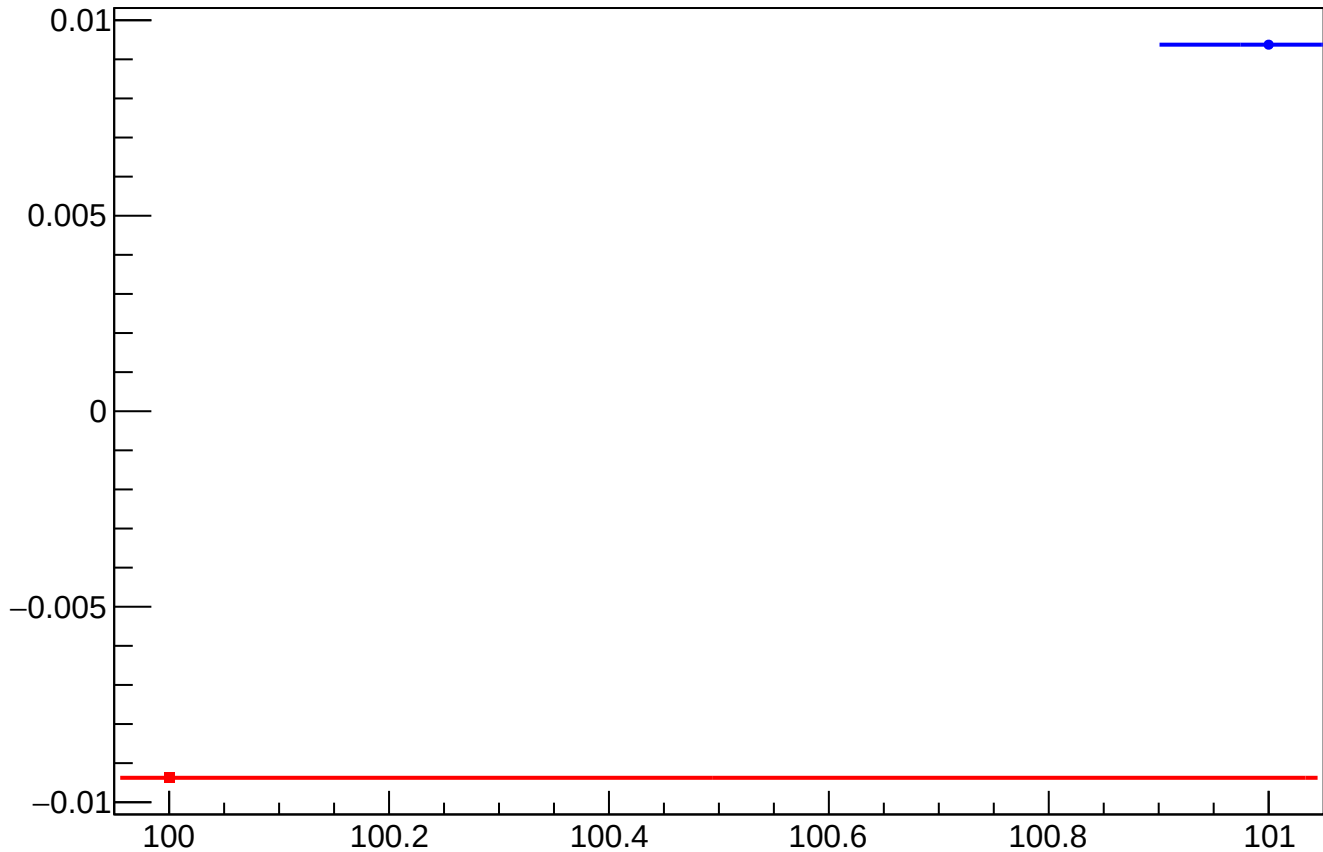
Right: 790.096+/-0.000  $\chi^2/\text{NDF}$ : 243161981135779

In: 980.806+/-0.000  $\chi^2/\text{NDF}$ : 840105.3/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 790.096+/-0.000  $\chi^2/\text{NDF}$ : 243161981135

# MQ172RM\_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

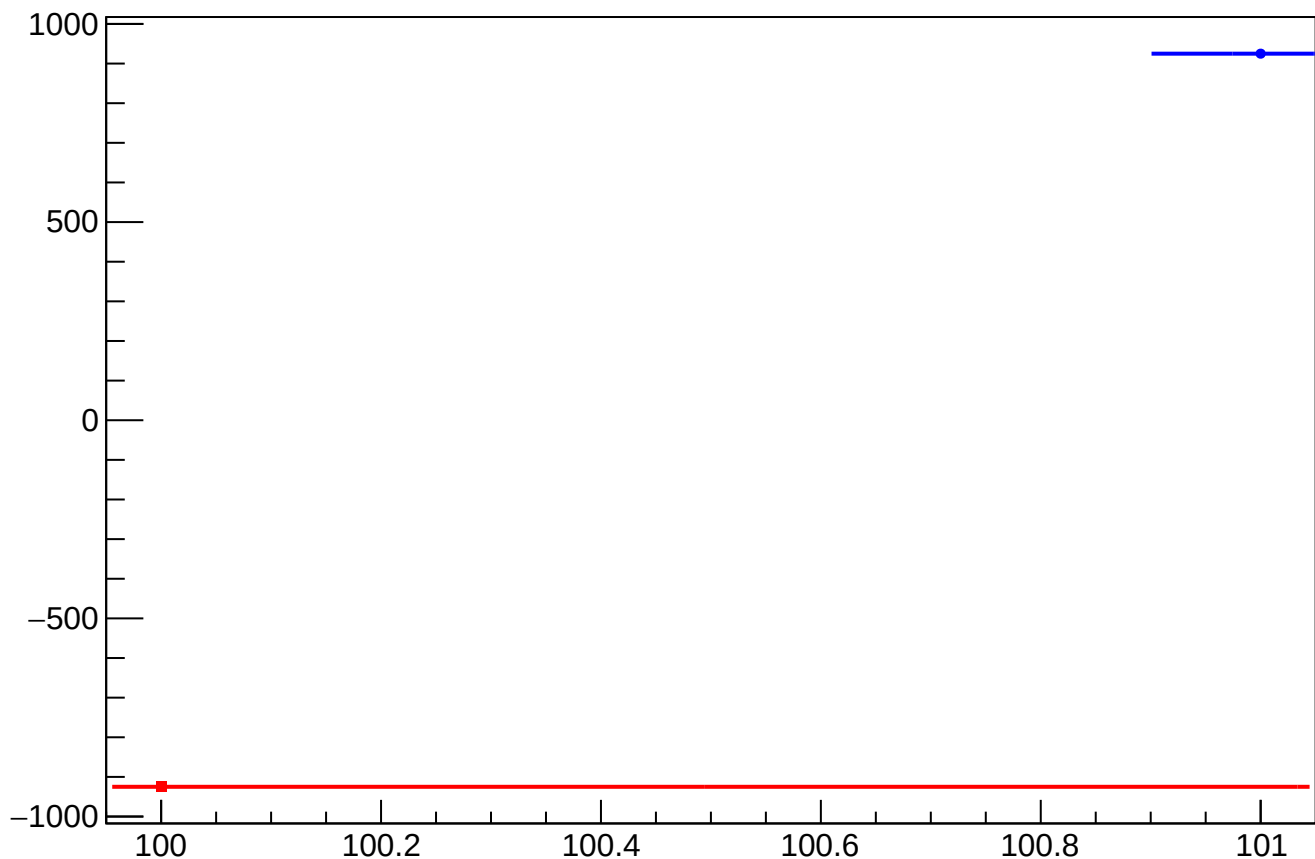
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984

# HacR\_Q2\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 924.966+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -924.960+/-0.000  $\chi^2/\text{NDF}$ : 90472.9/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

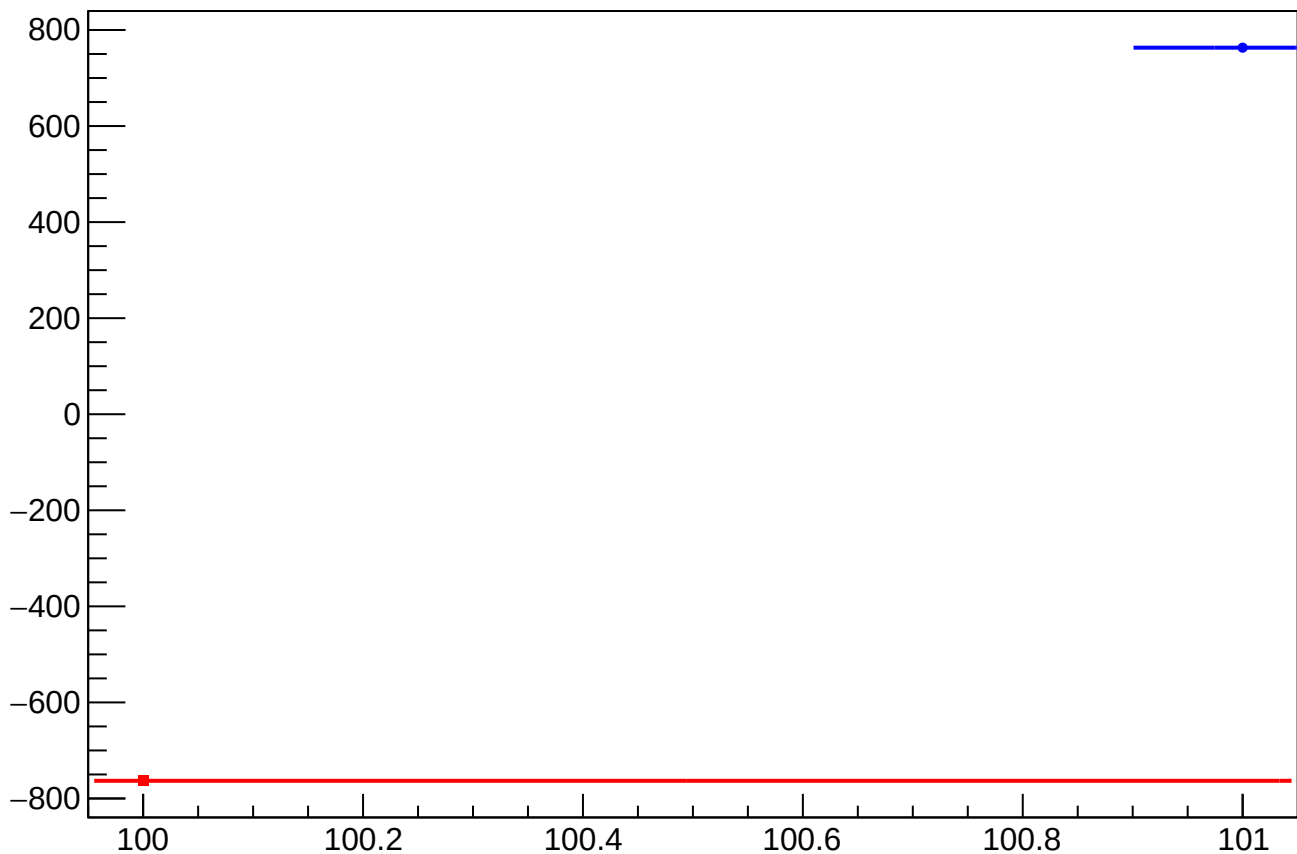
Right: 745.112+/-0.000  $\chi^2/\text{NDF}$ : 216265728560993

In: 924.966+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 745.112+/-0.000  $\chi^2/\text{NDF}$ : 216265728560

HacR\_D1\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 763.192+/-0.000  $\chi^2/\text{NDF}$ : 840105.3/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -763.193+/-0.000  $\chi^2/\text{NDF}$ : 361891.5/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

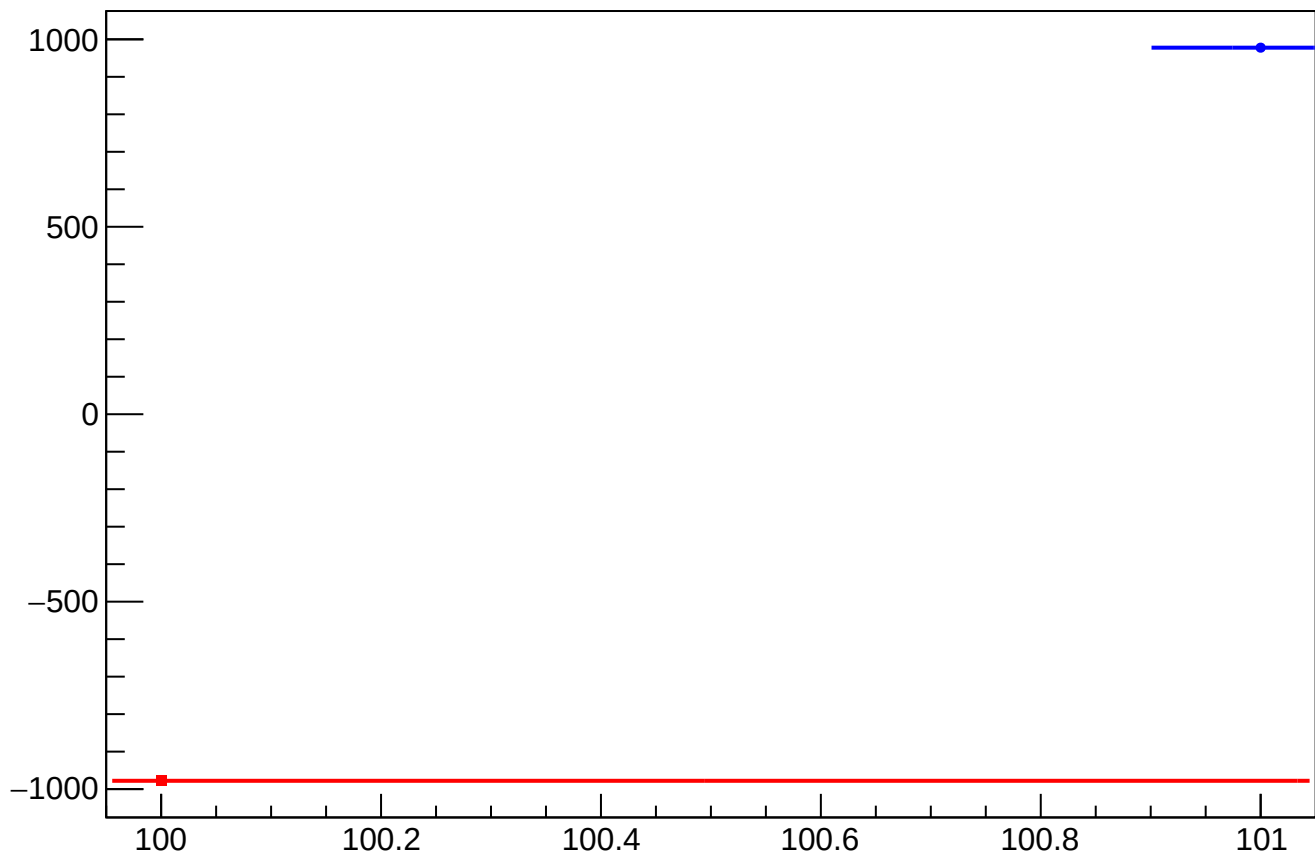
Right: 614.794+/-0.000  $\chi^2/\text{NDF}$ : 147233670139837

In: 763.192+/-0.000  $\chi^2/\text{NDF}$ : 840105.3/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 614.794+/-0.000  $\chi^2/\text{NDF}$ : 147233670139

# HacR\_Q3\_HP3458A\_IOUT\_mean vs Slug, Sign Corrected



Right In: 977.757+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -977.831+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

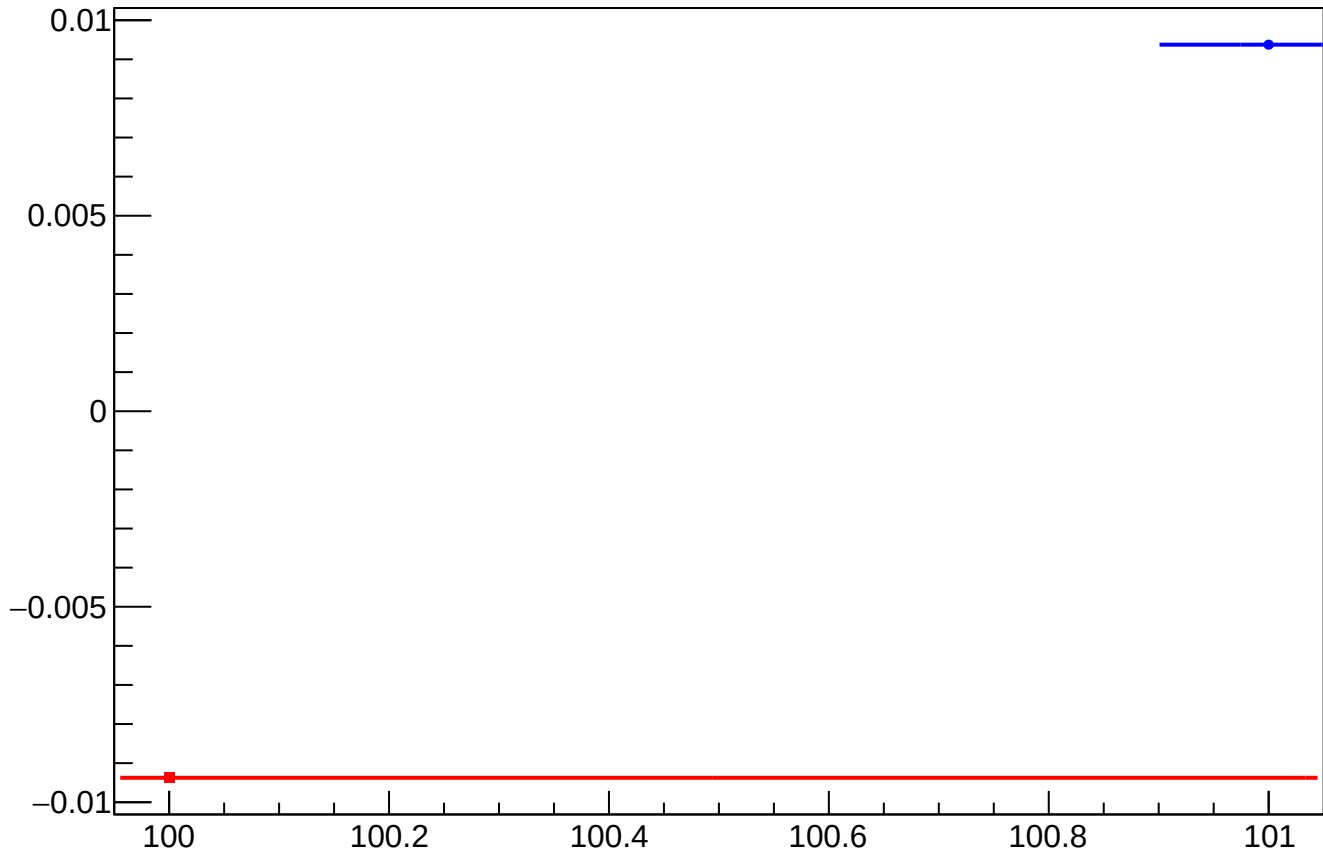
Right: 787.631+/-0.000  $\chi^2/\text{NDF}$ : 241676180078182

In: 977.757+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 787.631+/-0.000  $\chi^2/\text{NDF}$ : 241676180078

hesDipole\_current\_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

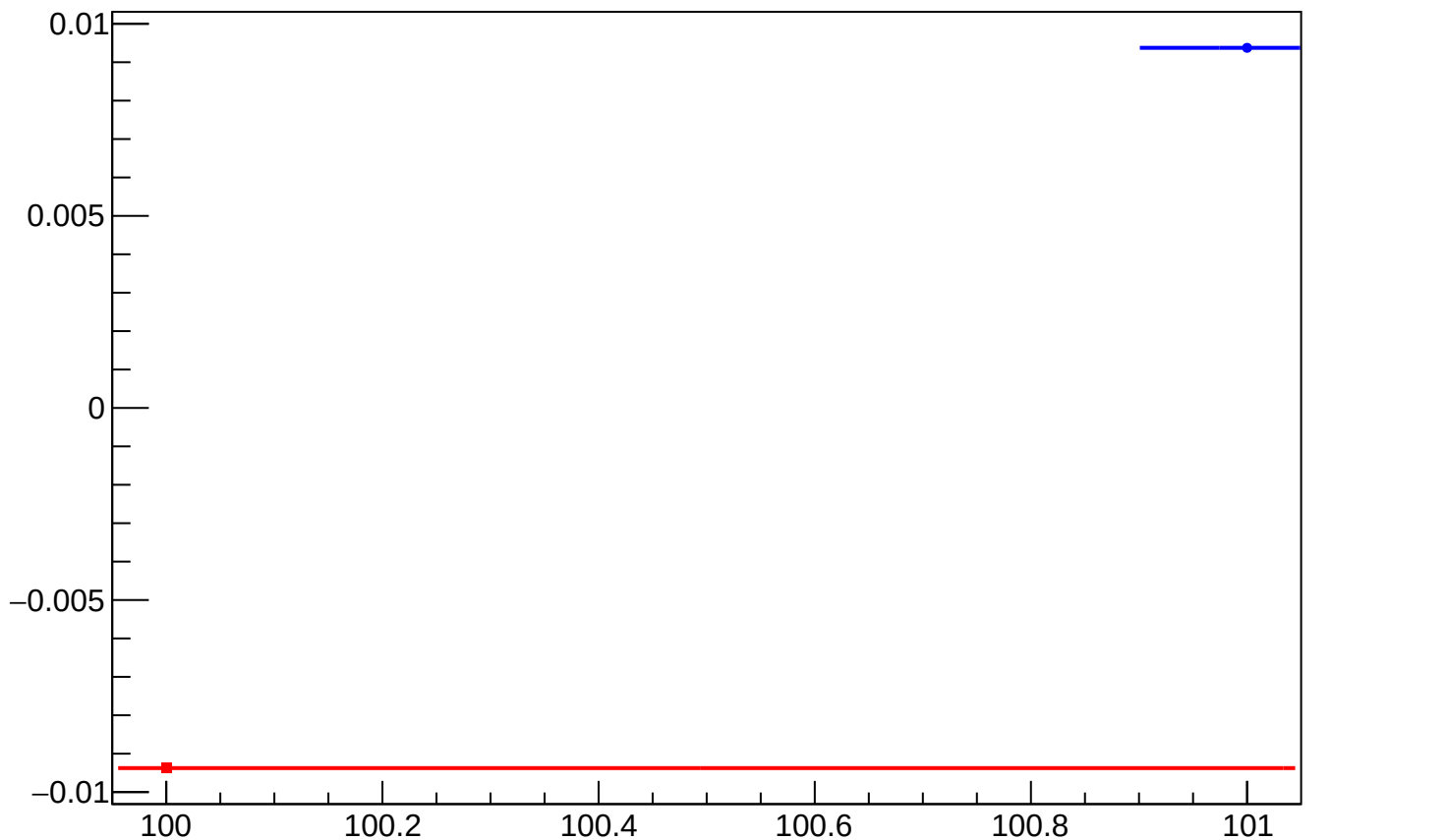
Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984

MSUPERBIGBITereadcalc\_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.009+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

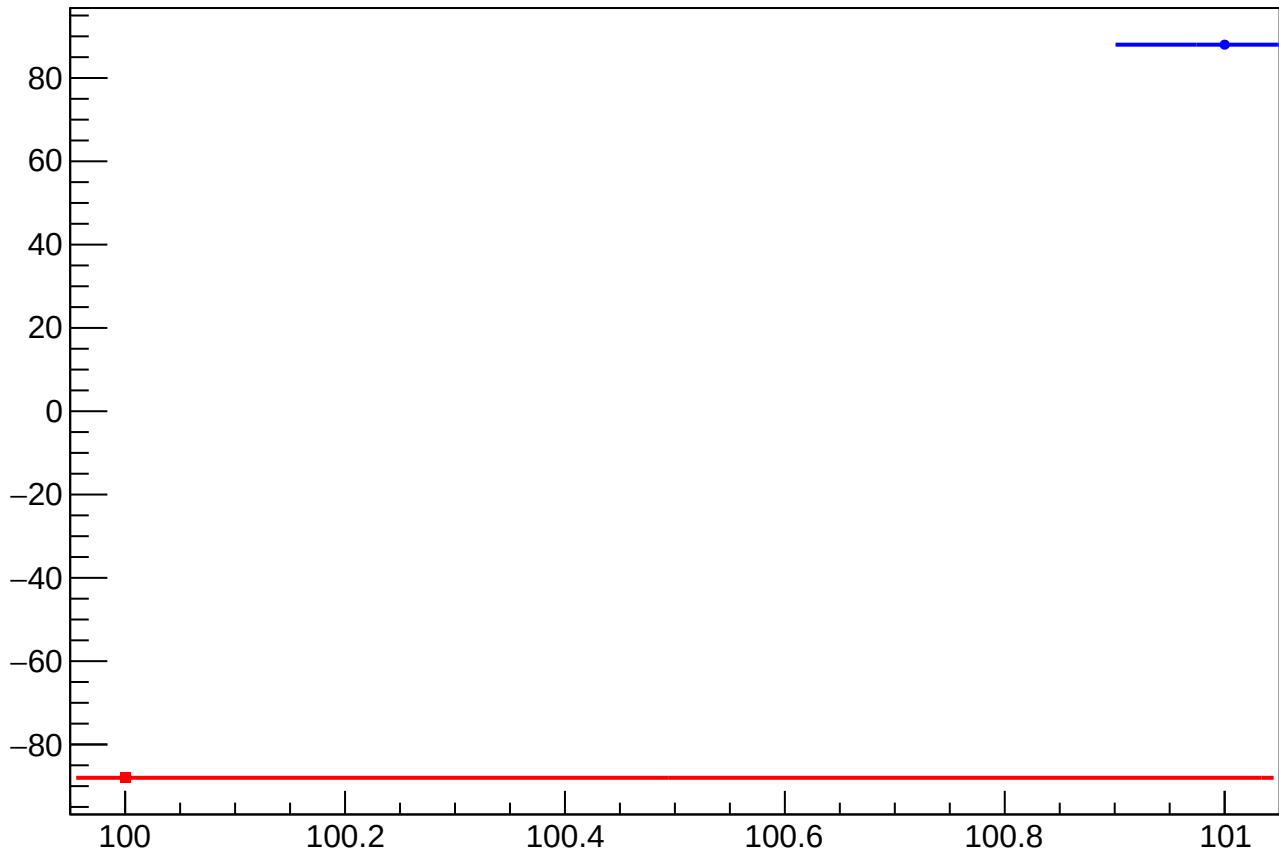
Right: 0.008+/-0.000  $\chi^2$ /NDF: 22216796874999984

In: 0.009+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.008+/-0.000  $\chi^2$ /NDF: 22216796874999984

# VWienAngle\_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -88.001+/-0.000  $\chi^2/\text{NDF}$ : 1413.6/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 70.889+/-0.000  $\chi^2/\text{NDF}$ : 1957542392486079

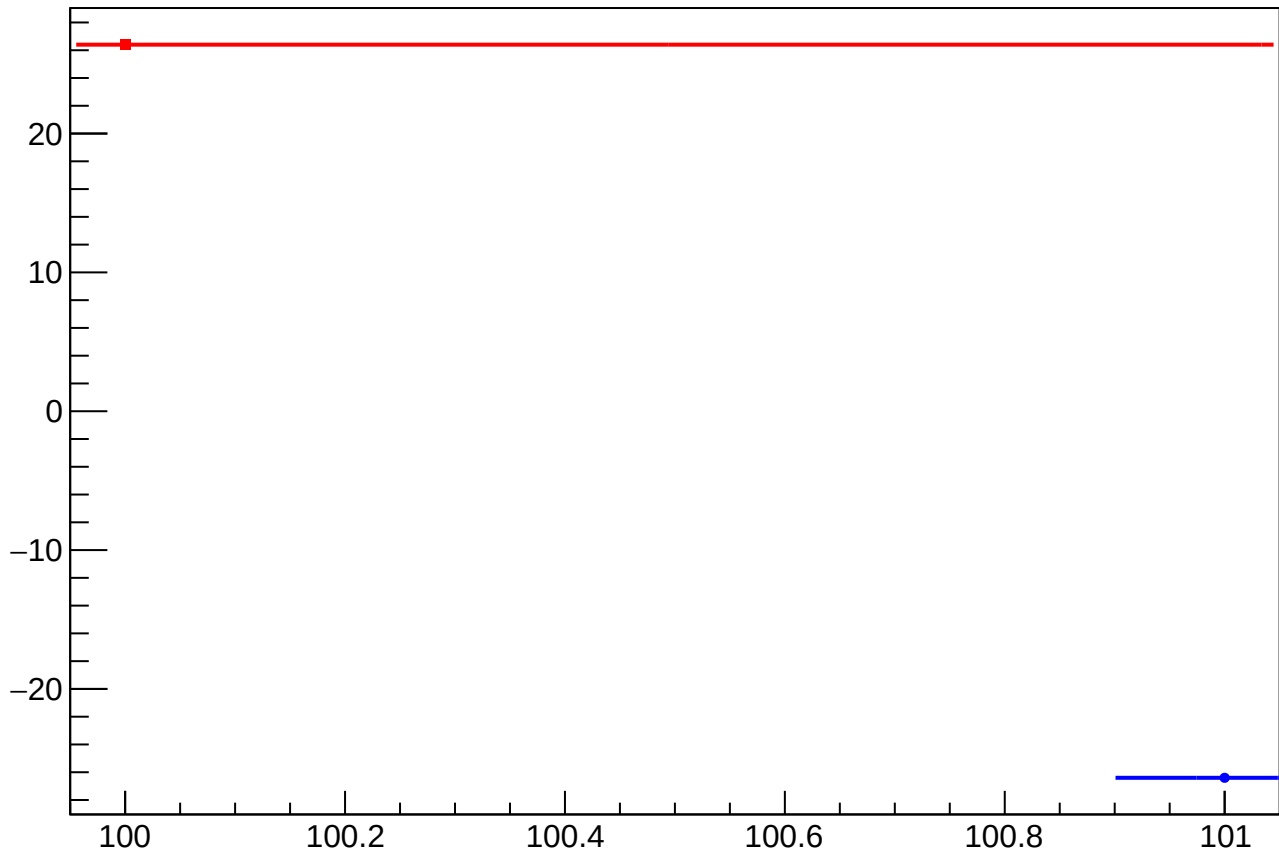
In: 88.001+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.889+/-0.000  $\chi^2/\text{NDF}$ : 1957542392486



# HWienAngle\_mean vs Slug, Sign Corrected



Right In: -26.401 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 26.401 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

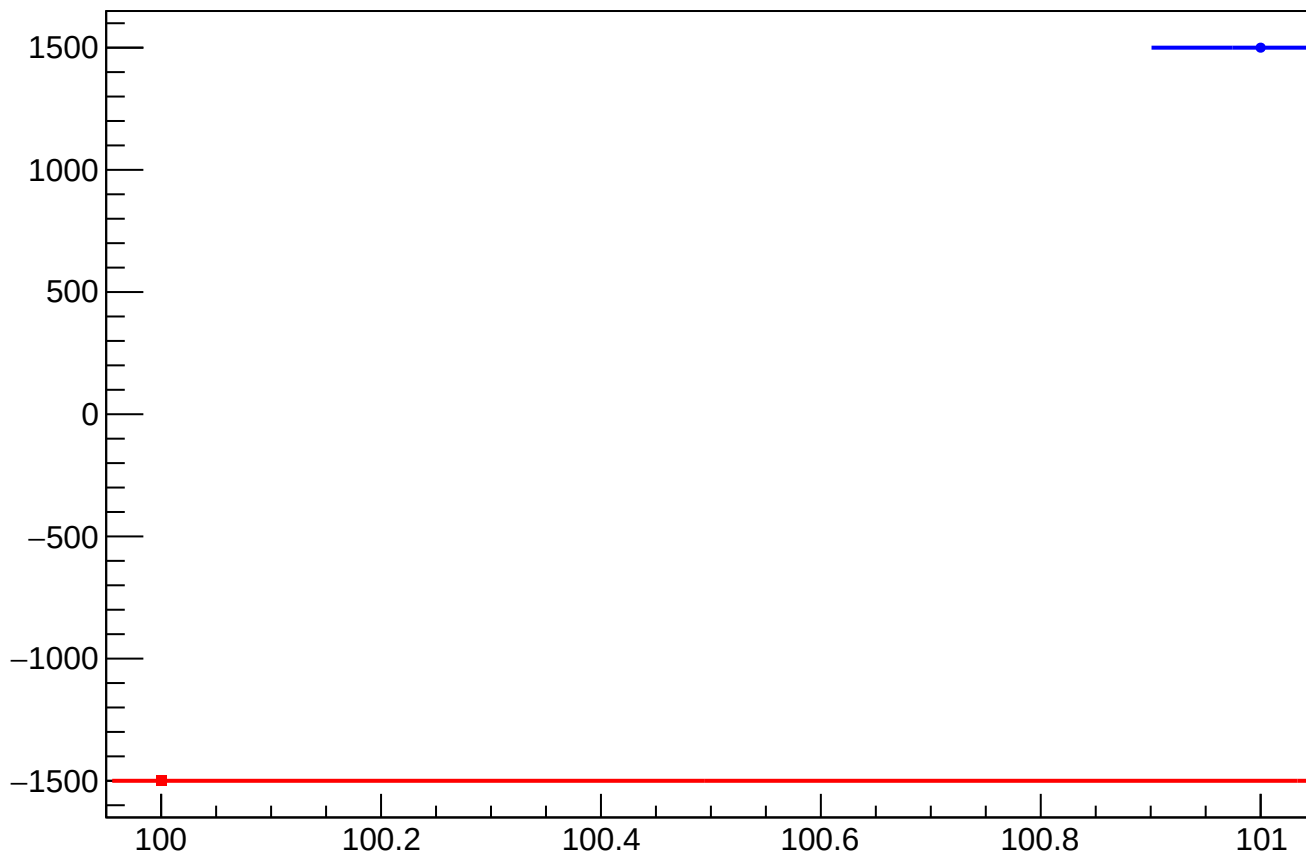
Right: -21.267 $\pm$ 0.000  $\chi^2$ /NDF: 176185384499969

In: -26.401 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -21.267 $\pm$ 0.000  $\chi^2$ /NDF: 1761853844999

# psub\_pl\_pos\_mean vs Slug, Sign Corrected



Right In: 1500.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -1500.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

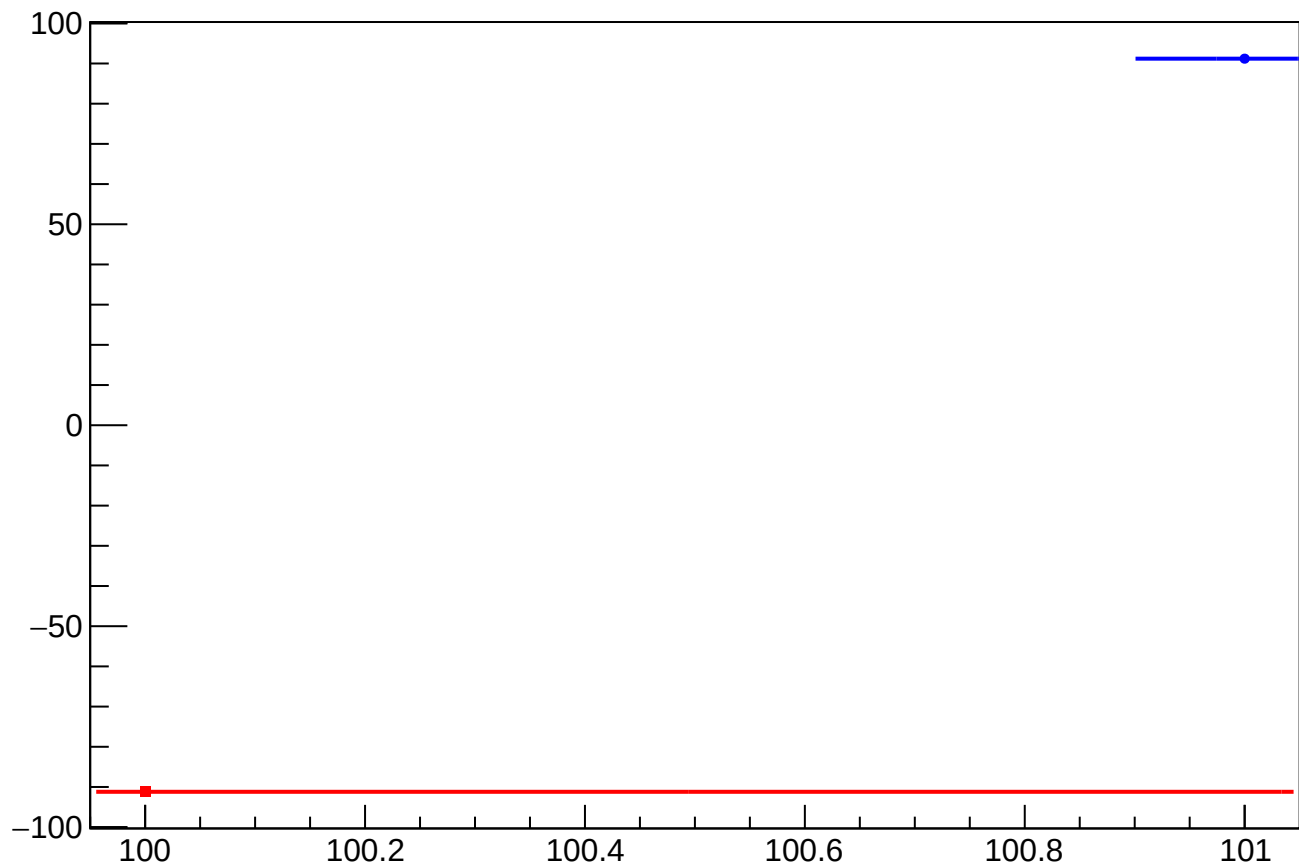
Right: 1208.334 $\pm$ 0.000  $\chi^2$ /NDF: 56875053320324

In: 1500.001 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1208.334 $\pm$ 0.000  $\chi^2$ /NDF: 56875053320

# Phi\_FG\_mean vs Slug, Sign Corrected



Right In: 91.199+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -91.199+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

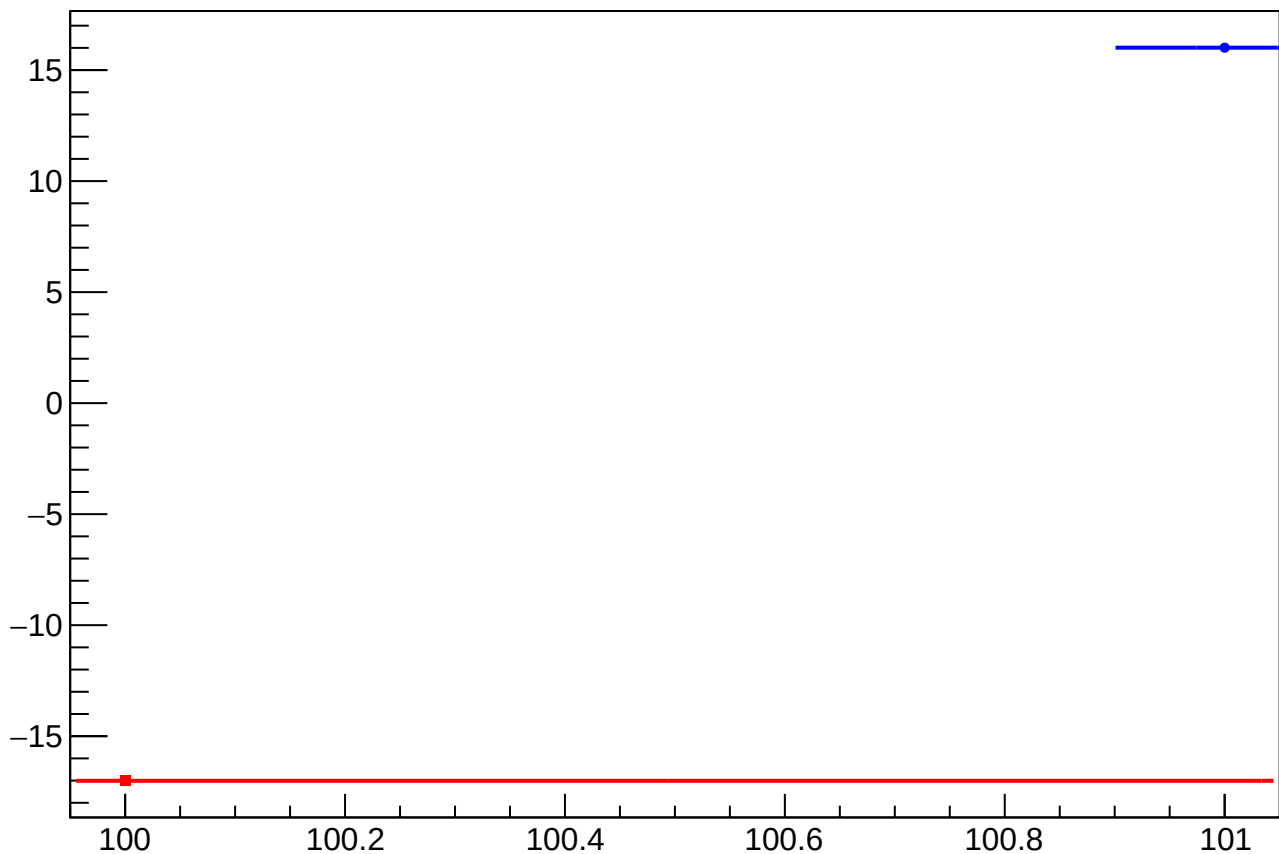
Right: 73.466+/-0.000  $\chi^2/\text{NDF}$ : 2102431581374969

In: 91.199+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 73.466+/-0.000  $\chi^2/\text{NDF}$ : 2102431581374

# IGL1I00DI24\_24M\_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -17.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

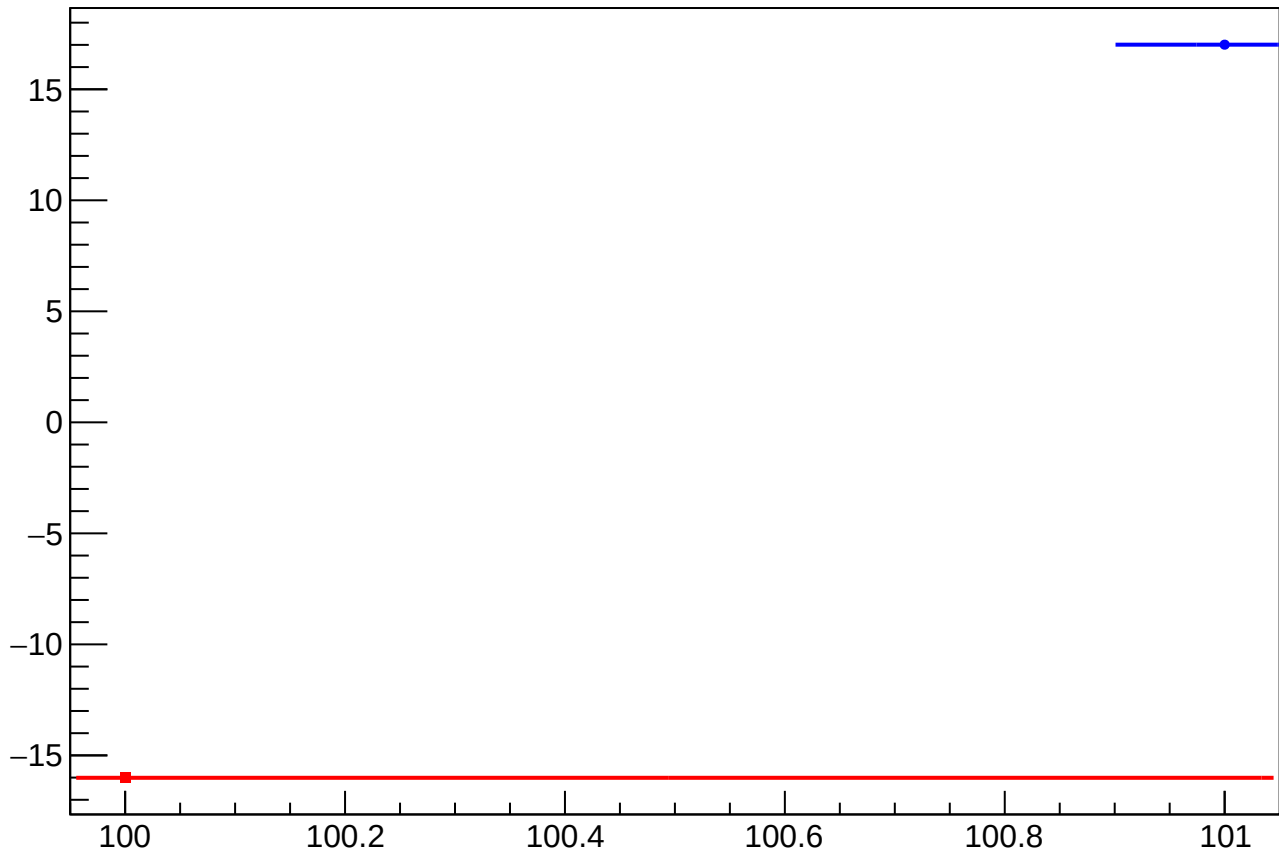
Right: 12.799+/-0.000  $\chi^2/\text{NDF}$ : 6889697534179691

In: 16.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.799+/-0.000  $\chi^2/\text{NDF}$ : 6889697534179

# IGL1I00OD16\_16\_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -16.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

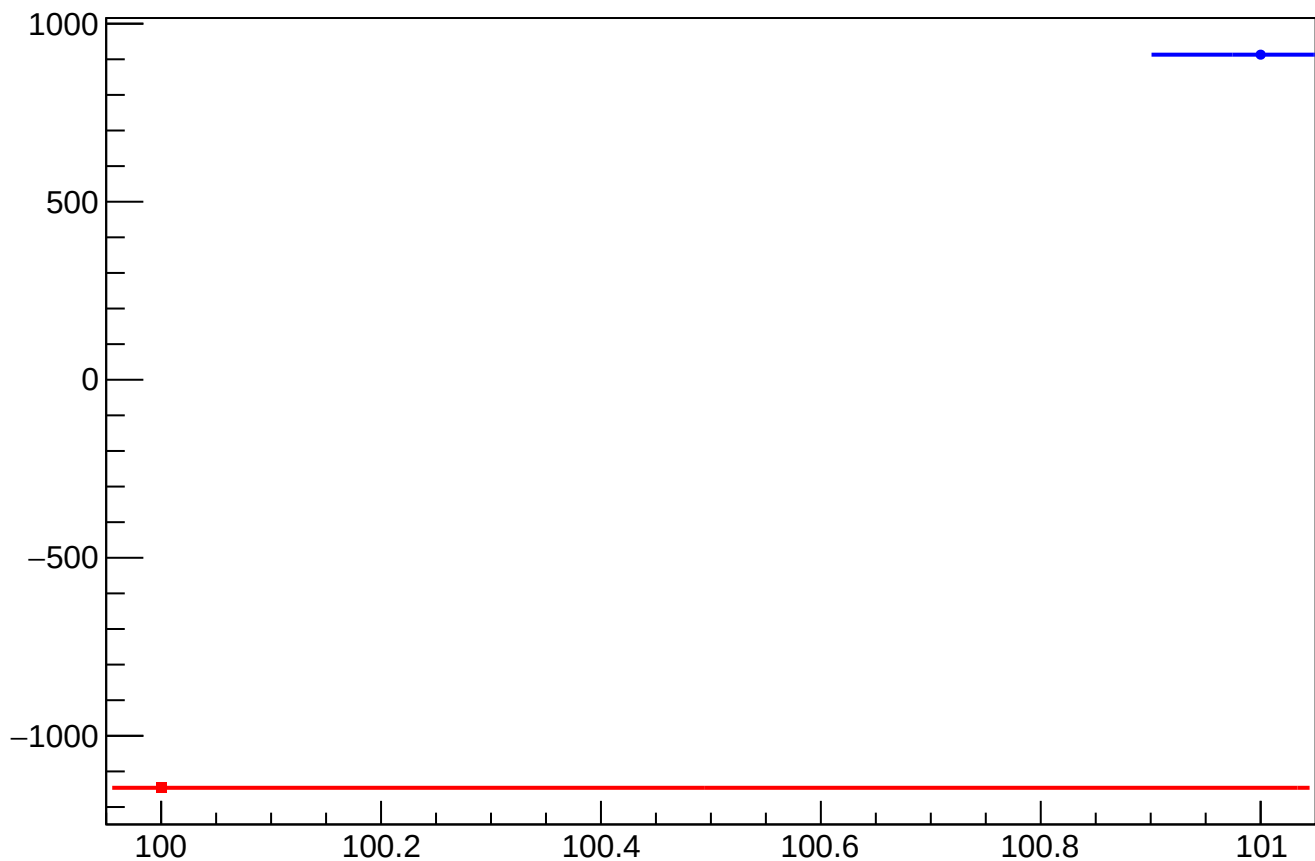
Right: 13.341+/-0.000  $\chi^2/\text{NDF}$ : 6783702187499996

In: 17.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.341+/-0.000  $\chi^2/\text{NDF}$ : 6783702187499996

# RTPAPOSUCNT\_mean vs Slug, Sign Corrected



Right In: 912.991+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1146.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

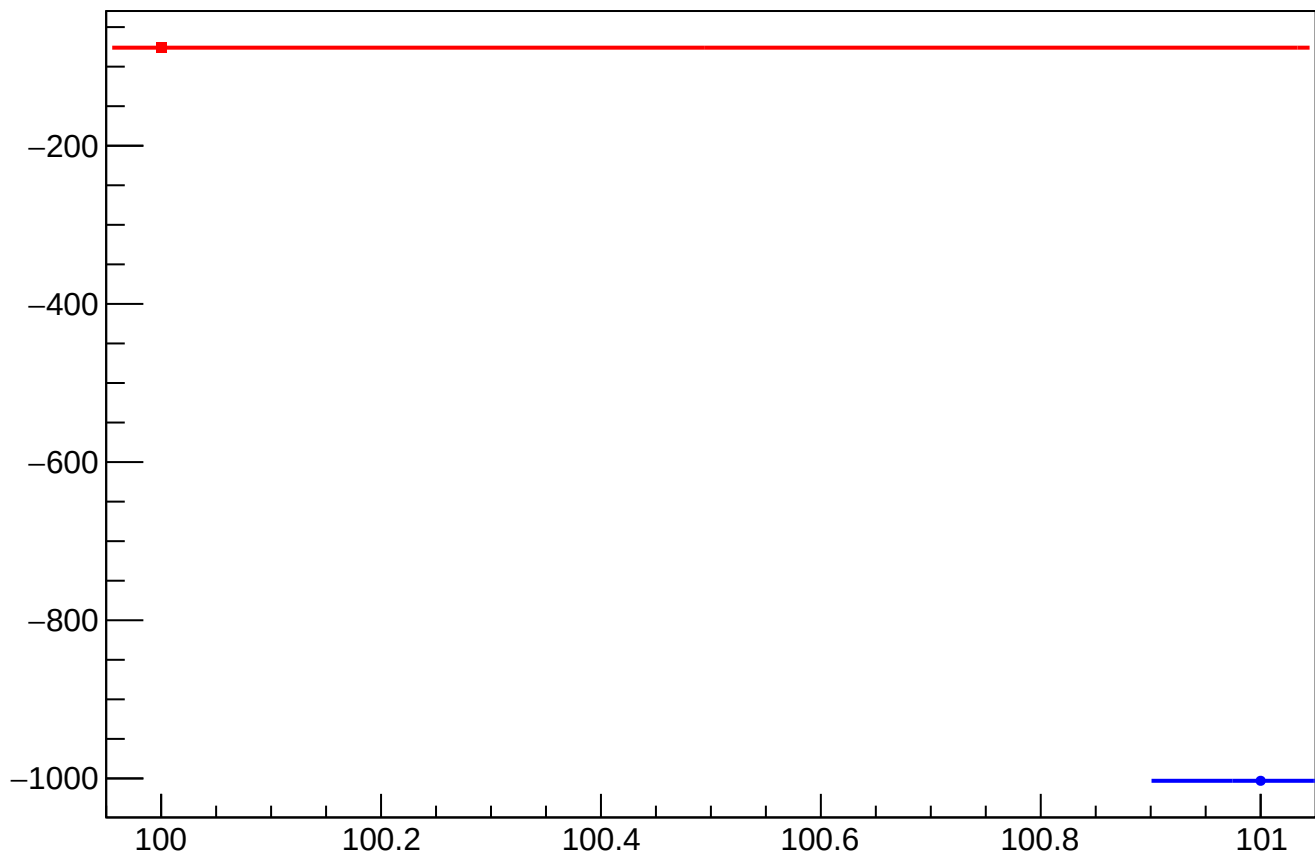
Right: 712.810+/-0.000  $\chi^2/\text{NDF}$ : 267911646527777

In: 912.991+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 712.810+/-0.000  $\chi^2/\text{NDF}$ : 267911646527777

# RTPAPOSVCNT\_mean vs Slug, Sign Corrected



Right In: -1002.991+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -76.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

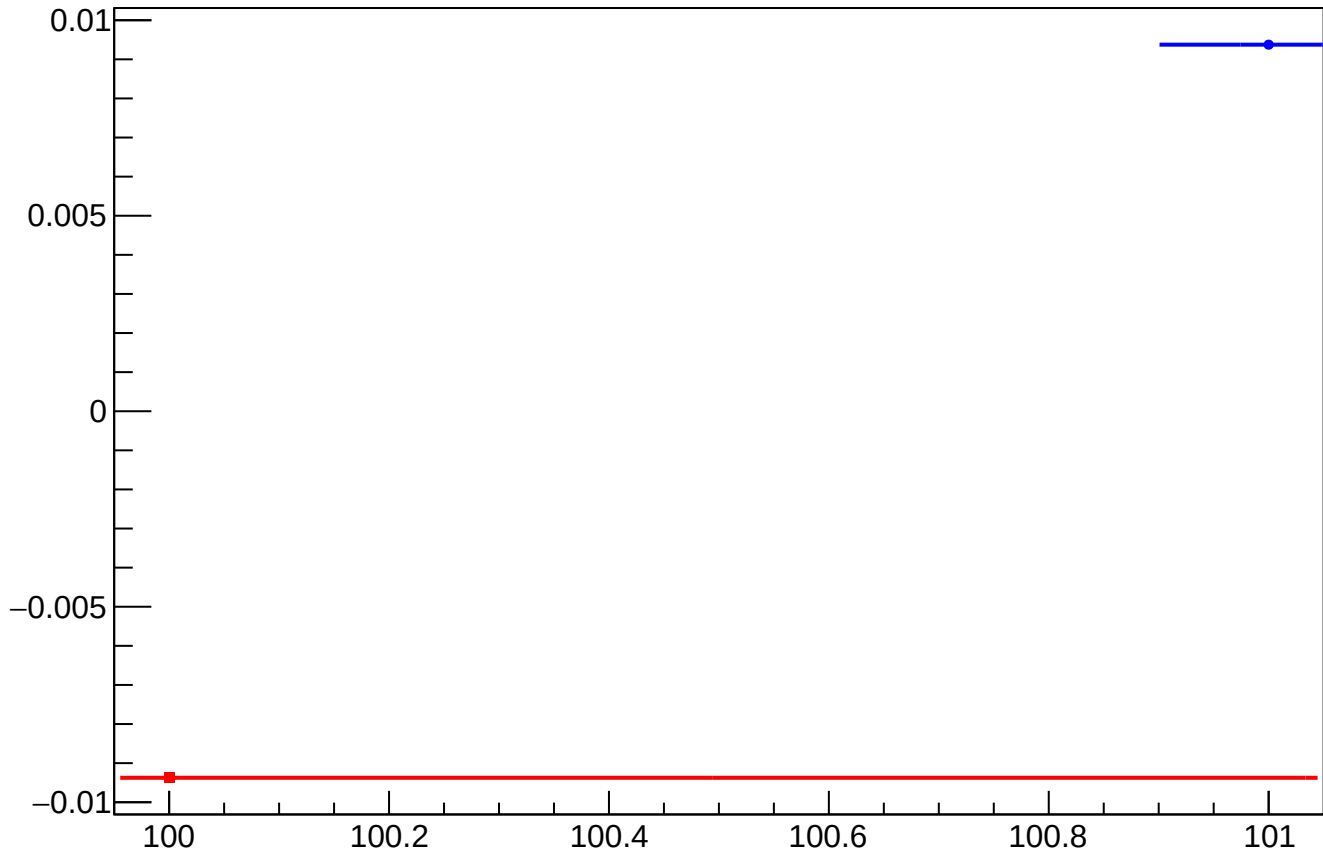
Right: -912.867+/-0.000  $\chi^2/\text{NDF}$ : 54302621975341

In: -1002.991+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -912.867+/-0.000  $\chi^2/\text{NDF}$ : 54302621975

# RTPPITA1CNT\_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984

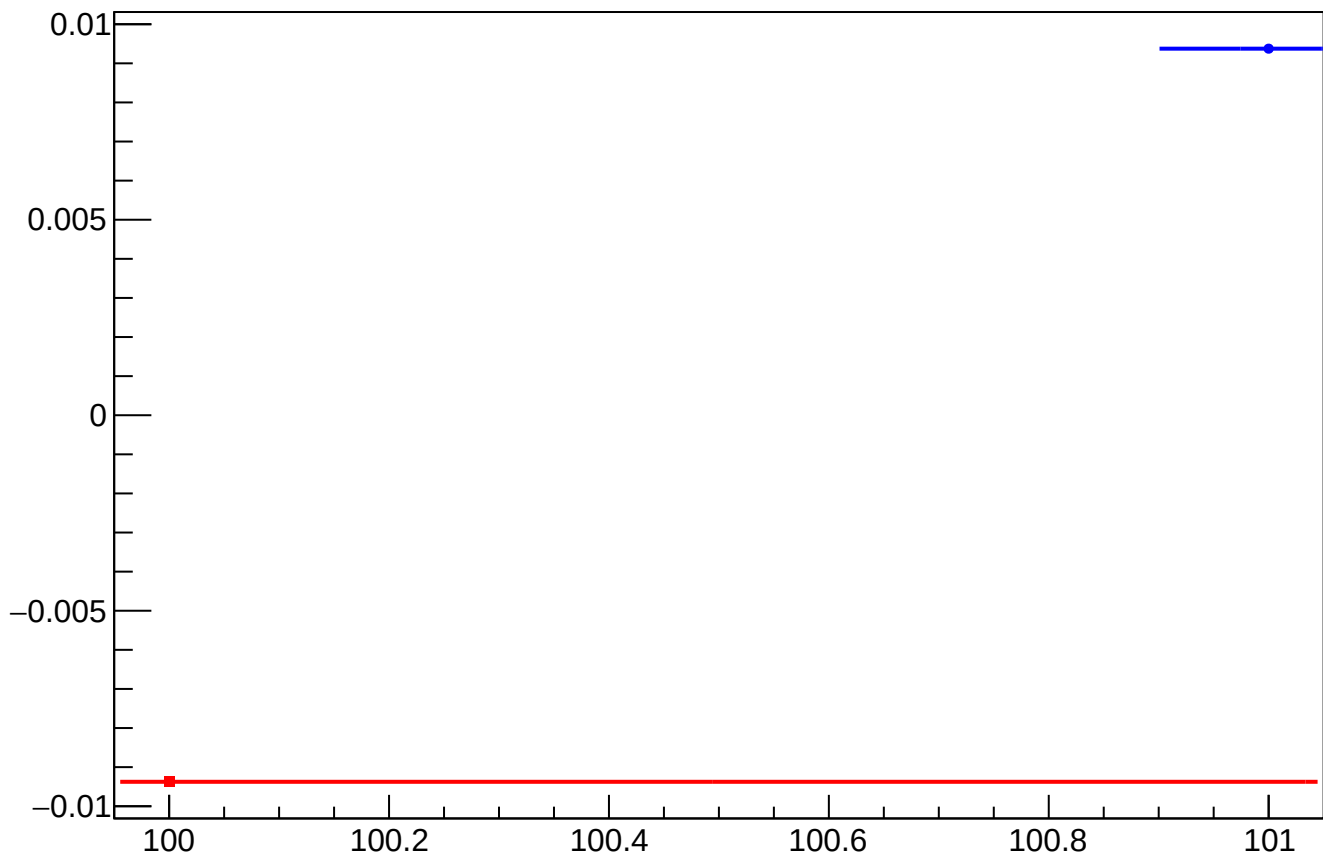
In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984



# RTPPITA2CNT\_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984

In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 22216796874999984